Pantheon Report

Generated at 2018-07-10 00:19:45 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

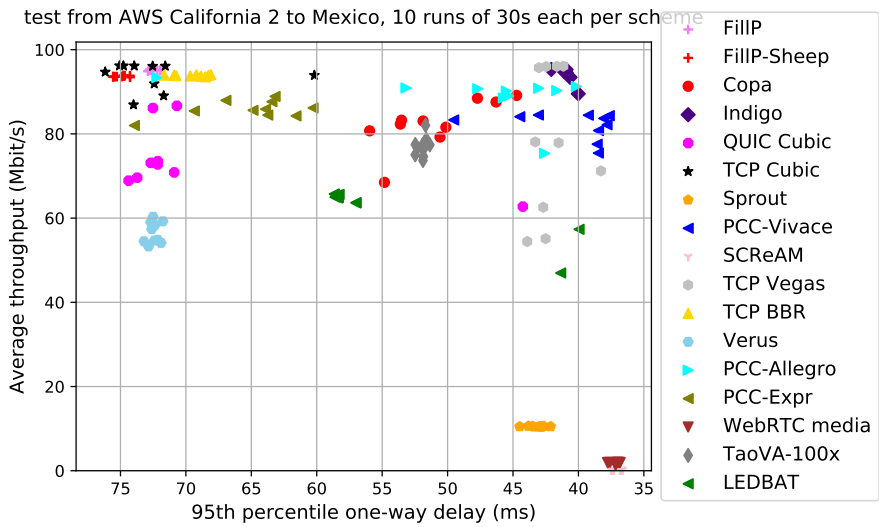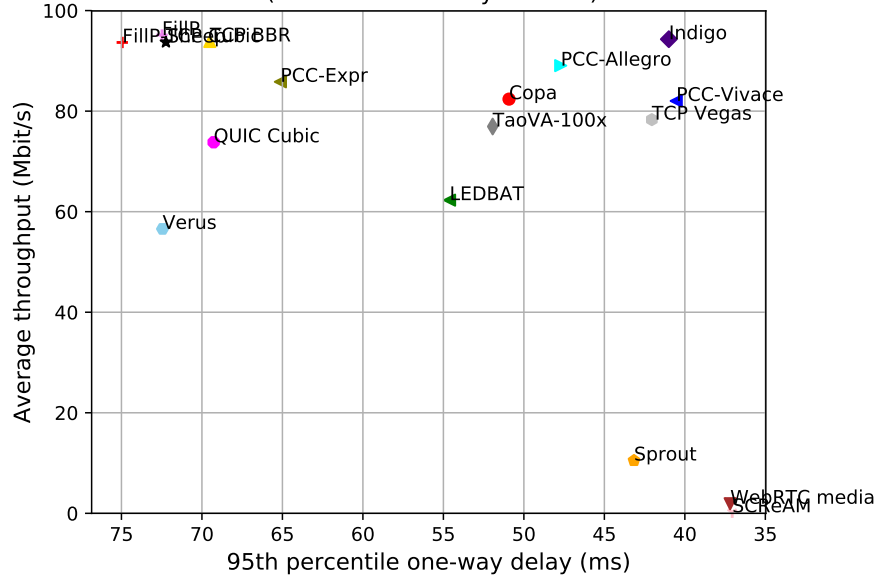Each test lasted for 30 seconds running 1 flow.

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

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfe58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 2 to Mexico, 10 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS California 2 to Mexico, 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	93.86	69.51	4.82
Copa	10	82.39	50.92	0.67
TCP Cubic	10	93.72	72.24	0.37
FillP	10	95.14	72.48	8.31
FillP-Sheep	10	93.66	74.95	4.10
Indigo	10	94.31	41.00	0.04
LEDBAT	10	62.30	54.62	0.01
PCC-Allegro	10	89.05	47.71	1.77
PCC-Expr	10	85.83	65.13	2.29
QUIC Cubic	9	73.81	69.27	2.34
SCReAM	10	0.22	37.06	0.00
Sprout	10	10.51	43.16	0.02
TaoVA-100x	10	76.94	51.94	0.03
TCP Vegas	10	78.31	42.05	0.36
Verus	10	56.57	72.45	25.03
PCC-Vivace	10	82.03	40.54	0.02
WebRTC media	10	1.90	37.19	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2018-07-09 20:01:24
End at: 2018-07-09 20:01:54
Local clock offset: -2.314 ms
Remote clock offset: 5.137 ms

# Below is generated by plot.py at 2018-07-09 23:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 68.849 ms
Loss rate: 4.53%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 68.849 ms
Loss rate: 4.53%
```
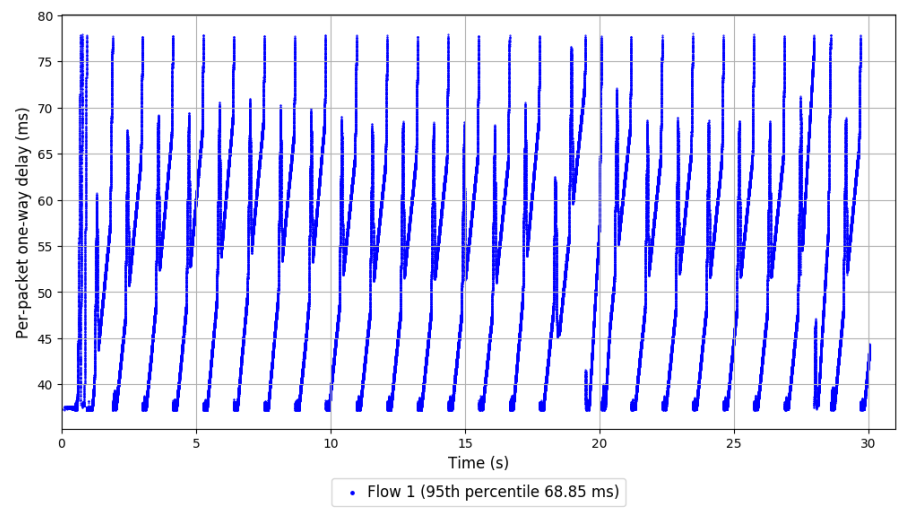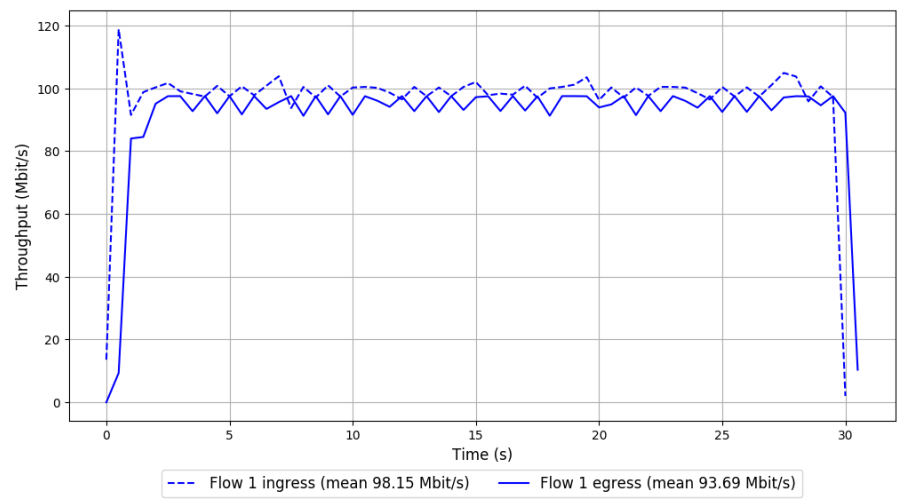
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2018-07-09 20:24:39
End at: 2018-07-09 20:25:09
Local clock offset: -2.253 ms
Remote clock offset: 5.685 ms


# Below is generated by plot.py at 2018-07-09 23:57:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 70.906 ms
Loss rate: 5.33%
-- Flow 1:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 70.906 ms
Loss rate: 5.33%
```
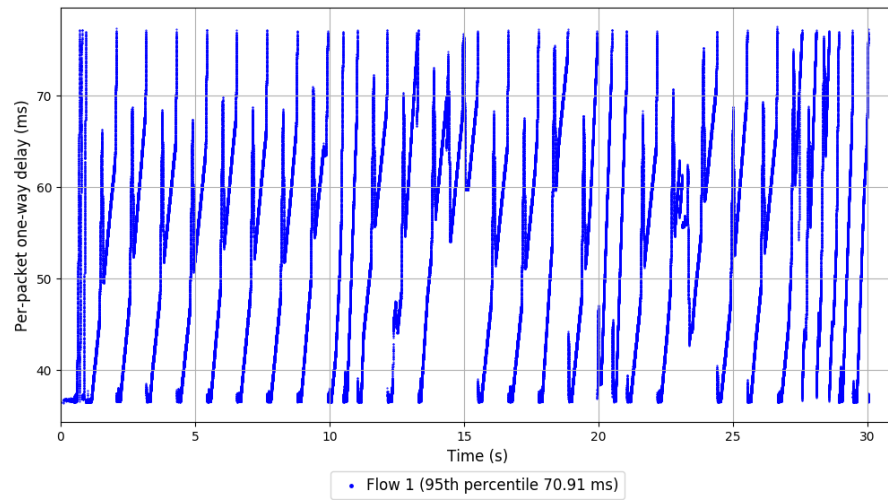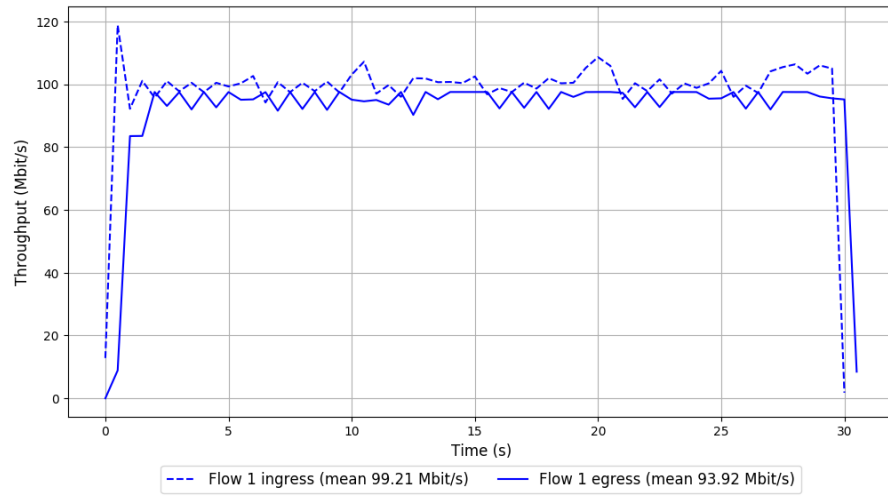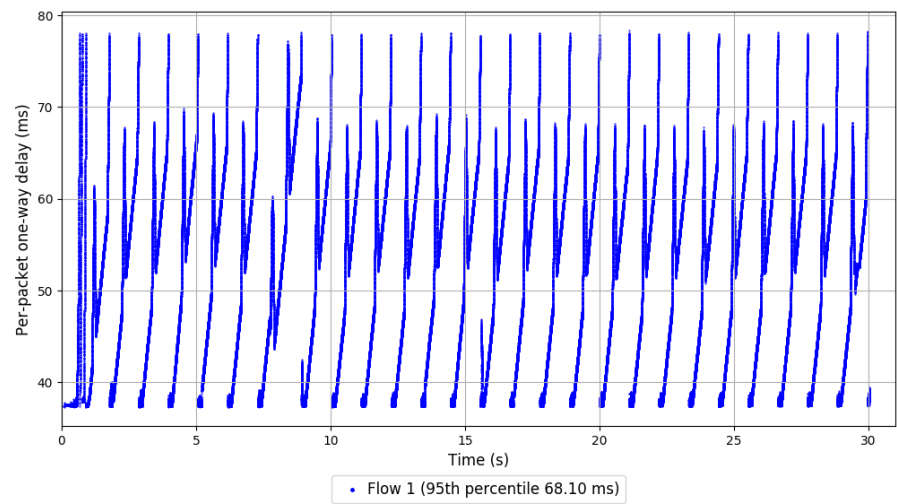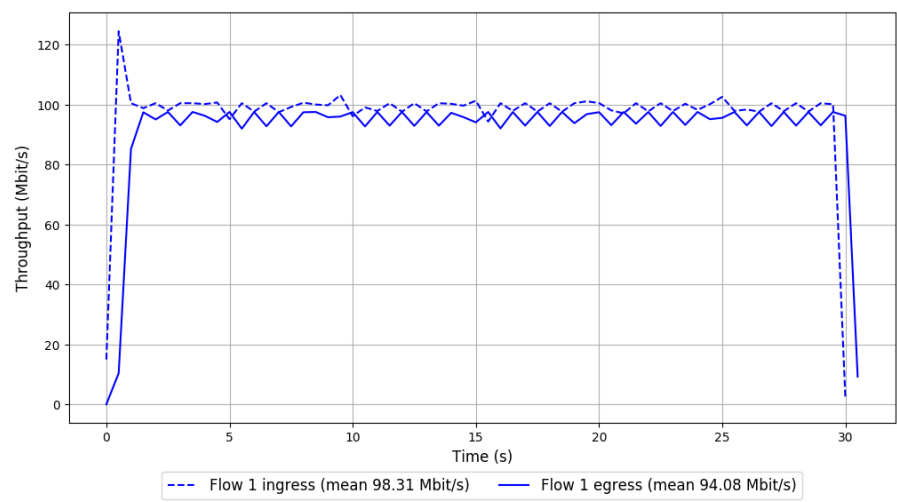
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 99.21 Mbit/s)   Flow 1 egress (mean 93.92 Mbit/s)

Flow 1 (95th percentile 70.91 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2018-07-09 20:48:24
End at: 2018-07-09 20:48:54
Local clock offset: -3.433 ms
Remote clock offset: 3.732 ms


# Below is generated by plot.py at 2018-07-09 23:57:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 68.100 ms
Loss rate: 4.30%
-- Flow 1:
Average throughput: 94.08 Mbit/s
95th percentile per-packet one-way delay: 68.100 ms
Loss rate: 4.30%
```
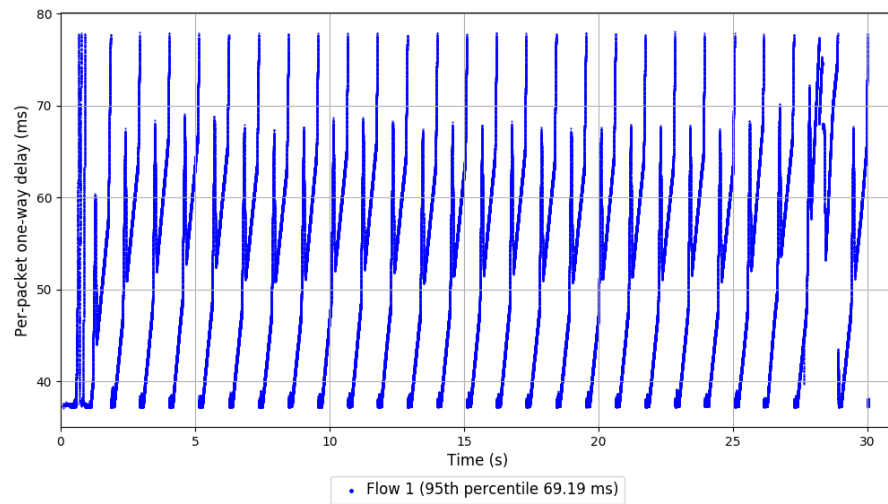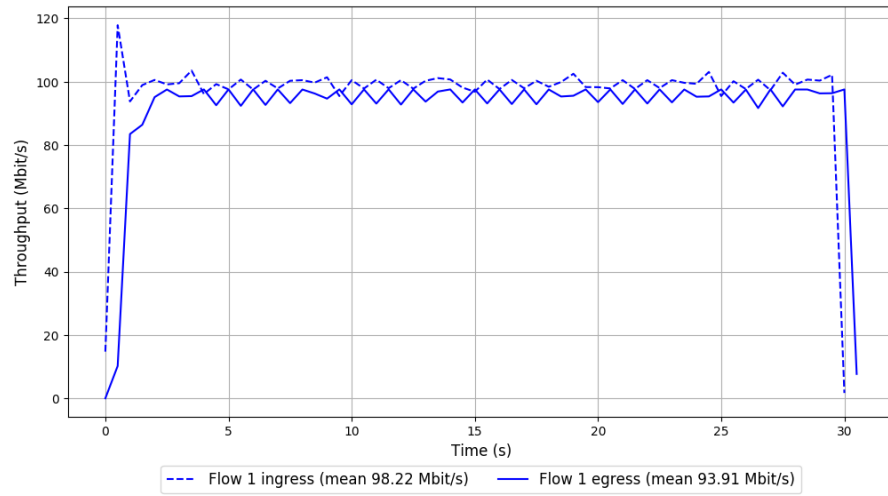
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.31 Mbit/s)   Flow 1 egress (mean 94.08 Mbit/s)

Flow 1 (95th percentile 68.10 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2018-07-09 21:11:17
End at: 2018-07-09 21:11:47
Local clock offset: -2.061 ms
Remote clock offset: 3.393 ms

# Below is generated by plot.py at 2018-07-09 23:57:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 69.194 ms
Loss rate: 4.38%
-- Flow 1:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 69.194 ms
Loss rate: 4.38%
```
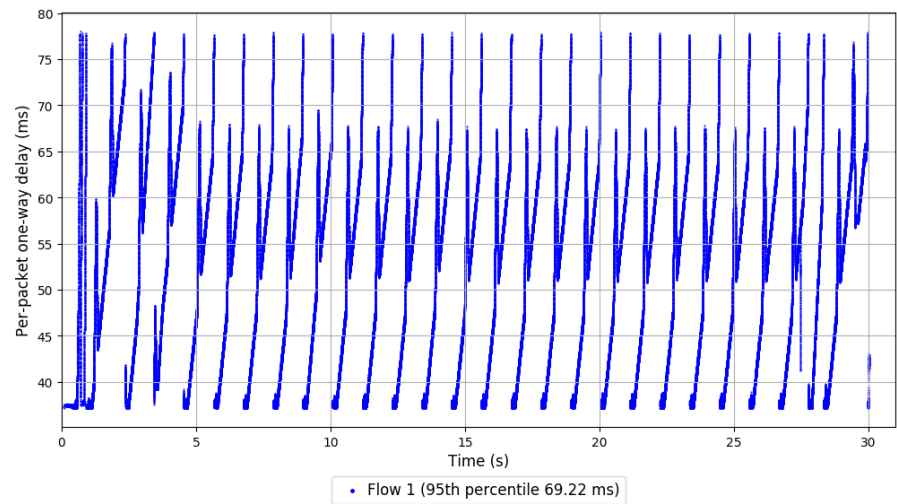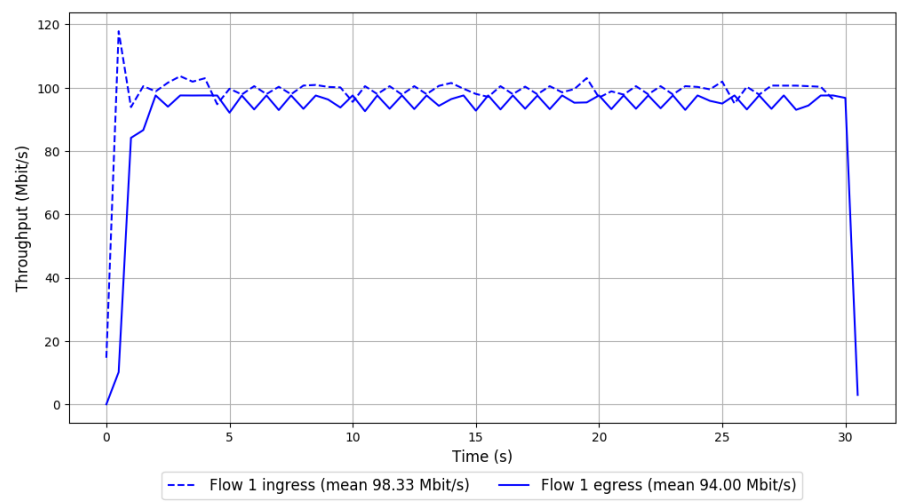
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2018-07-09 21:34:24
End at: 2018-07-09 21:34:54
Local clock offset: -0.802 ms
Remote clock offset: 3.519 ms

# Below is generated by plot.py at 2018-07-09 23:57:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 69.215 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 69.215 ms
Loss rate: 4.39%
```
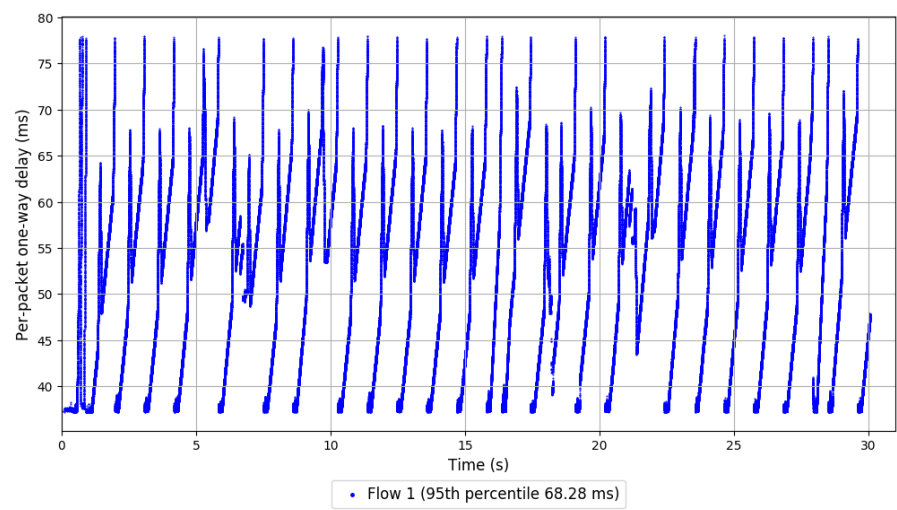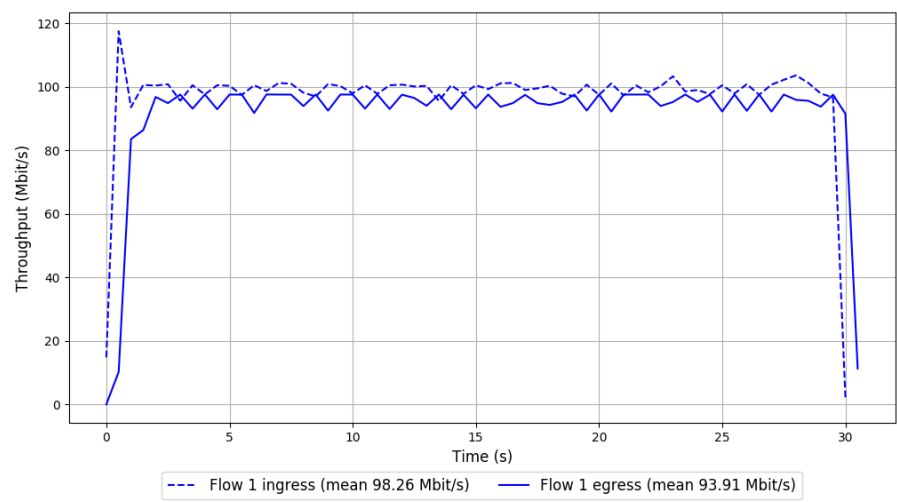
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.33 Mbit/s) ——— Flow 1 egress (mean 94.00 Mbit/s)

• Flow 1 (95th percentile 69.22 ms)

```
Run 6: Statistics of TCP BBR

Start at: 2018-07-09 21:57:51
End at: 2018-07-09 21:58:21
Local clock offset: -0.756 ms
Remote clock offset: 3.92 ms

# Below is generated by plot.py at 2018-07-09 23:57:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 68.282 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 93.91 Mbit/s
95th percentile per-packet one-way delay: 68.282 ms
Loss rate: 4.41%
```
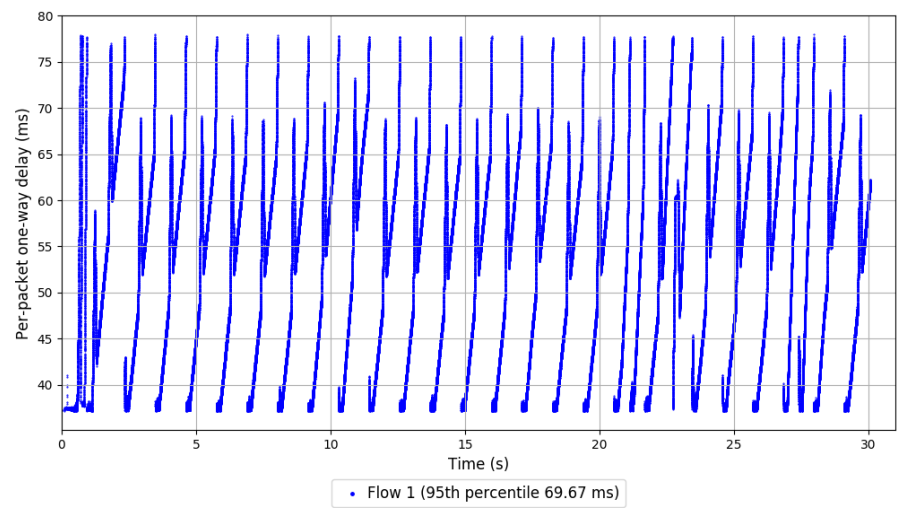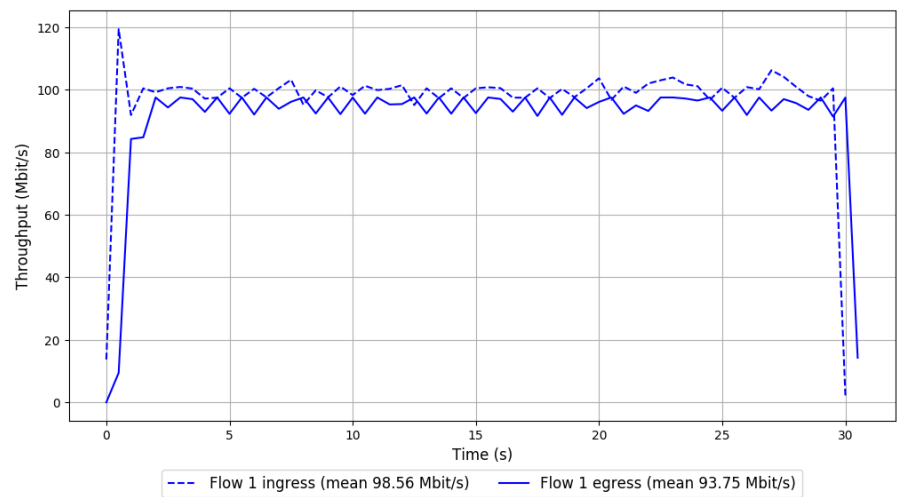
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.26 Mbit/s) — — —   Flow 1 egress (mean 93.91 Mbit/s) ———

• Flow 1 (95th percentile 68.28 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-07-09 22:21:02
End at: 2018-07-09 22:21:32
Local clock offset: -1.102 ms
Remote clock offset: 4.008 ms


# Below is generated by plot.py at 2018-07-09 23:57:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 69.669 ms
Loss rate: 4.80%
-- Flow 1:
Average throughput: 93.75 Mbit/s
95th percentile per-packet one-way delay: 69.669 ms
Loss rate: 4.80%
```
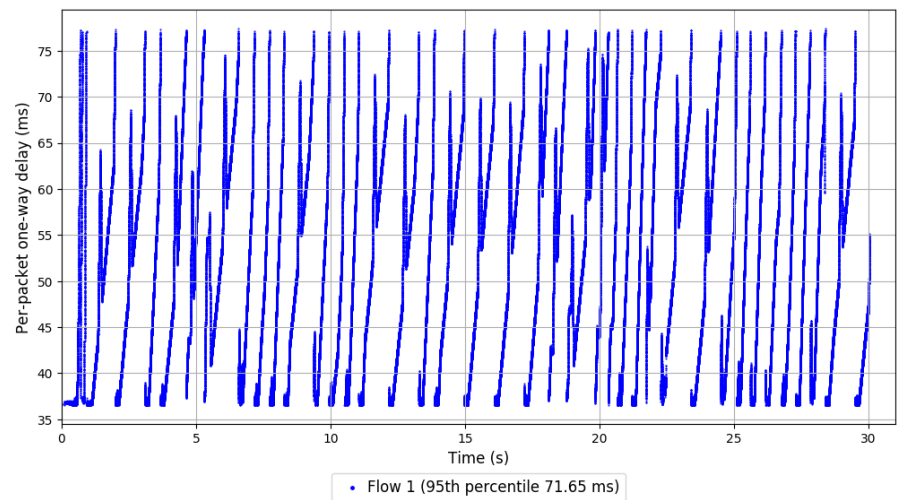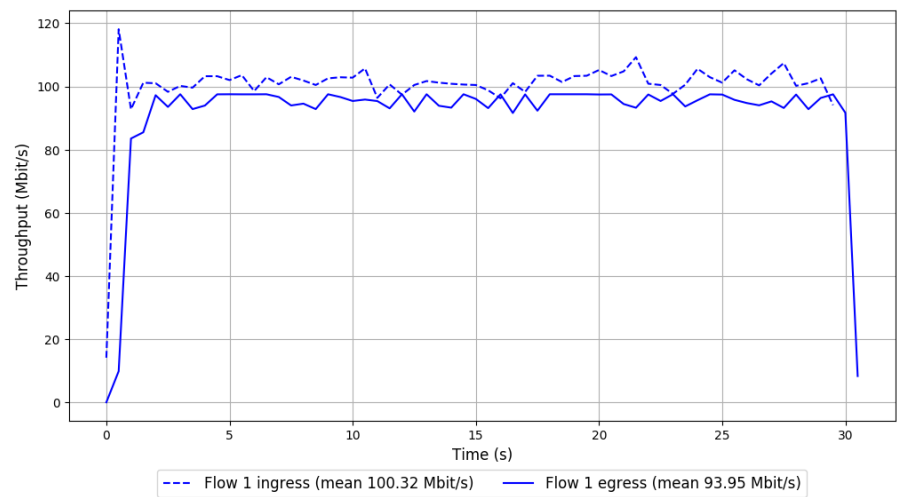
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.56 Mbit/s)   Flow 1 egress (mean 93.75 Mbit/s)

Flow 1 (95th percentile 69.67 ms)

17

```
Run 8: Statistics of TCP BBR

Start at: 2018-07-09 22:44:47
End at: 2018-07-09 22:45:17
Local clock offset: -1.558 ms
Remote clock offset: 3.762 ms


# Below is generated by plot.py at 2018-07-09 23:57:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 71.654 ms
Loss rate: 6.30%
-- Flow 1:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 71.654 ms
Loss rate: 6.30%
```
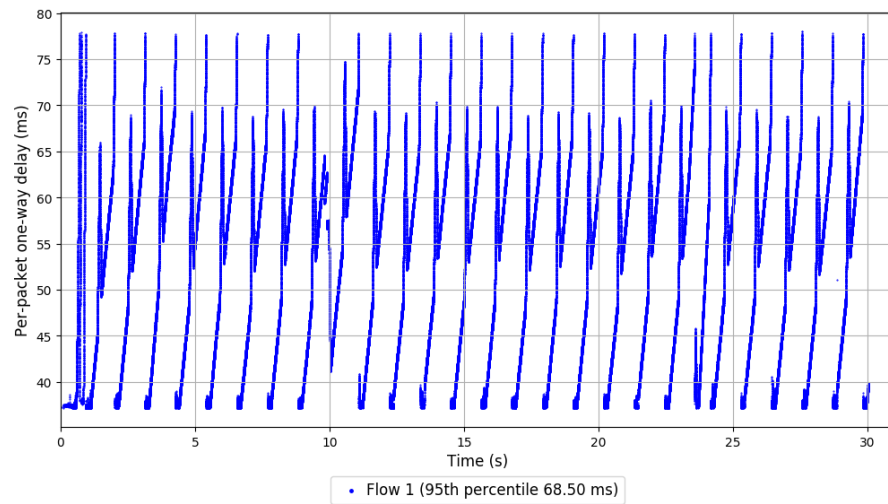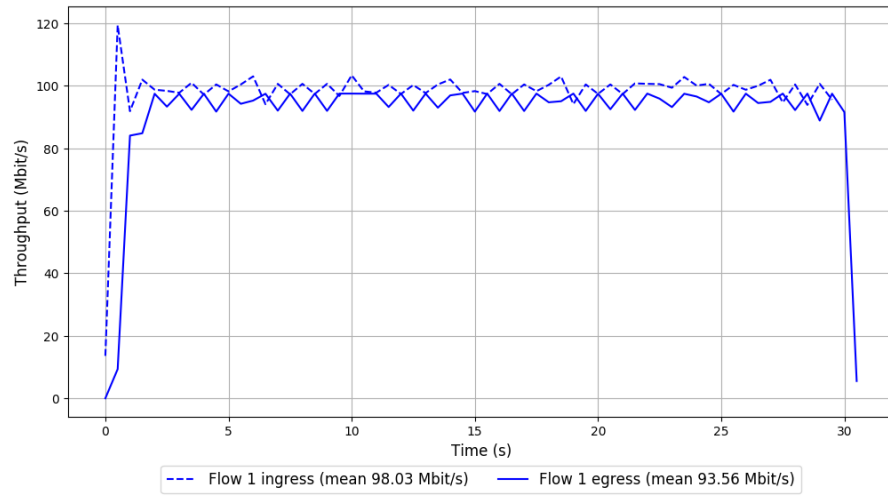
Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 100.32 Mbit/s)   Flow 1 egress (mean 93.95 Mbit/s)

Flow 1 (95th percentile 71.65 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-07-09 23:09:06
End at: 2018-07-09 23:09:36
Local clock offset: -1.635 ms
Remote clock offset: 3.287 ms


# Below is generated by plot.py at 2018-07-09 23:58:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 68.500 ms
Loss rate: 4.56%
-- Flow 1:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 68.500 ms
Loss rate: 4.56%
```
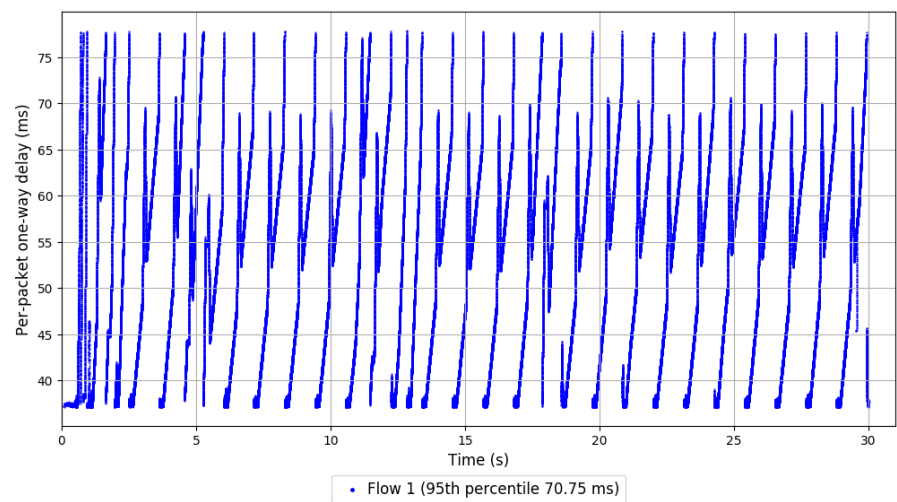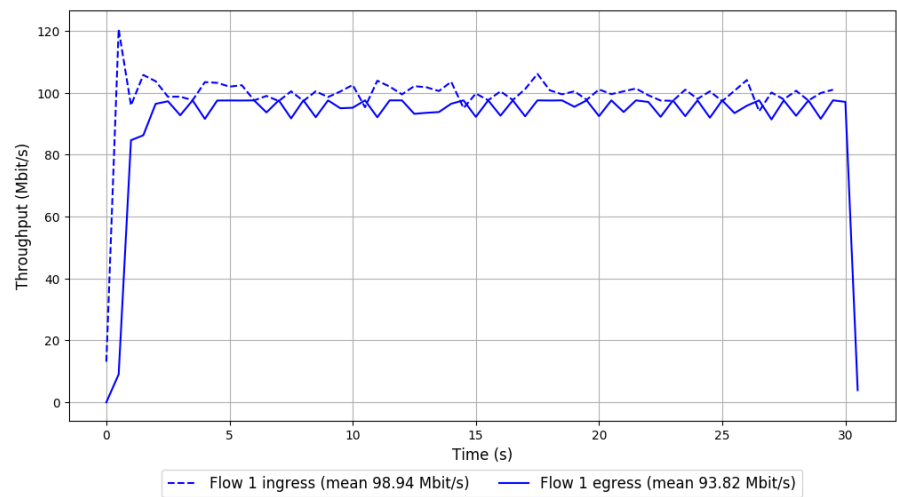
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.03 Mbit/s) --- Flow 1 egress (mean 93.56 Mbit/s)

• Flow 1 (95th percentile 68.50 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-07-09 23:33:56
End at: 2018-07-09 23:34:26
Local clock offset: -1.661 ms
Remote clock offset: 3.62 ms


# Below is generated by plot.py at 2018-07-09 23:58:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 70.754 ms
Loss rate: 5.17%
-- Flow 1:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 70.754 ms
Loss rate: 5.17%
```
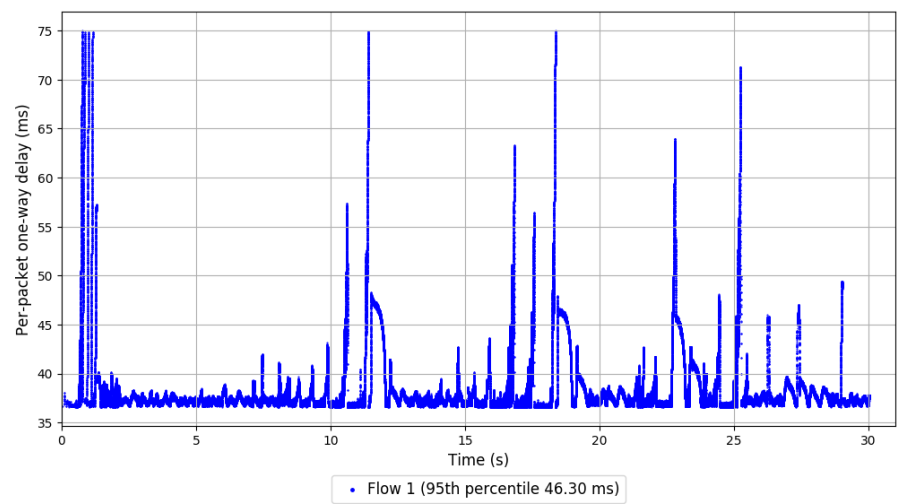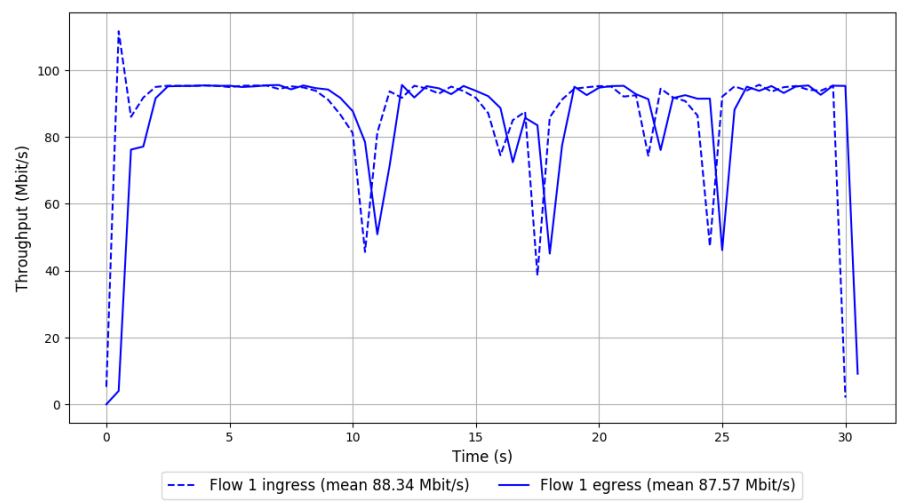
Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.94 Mbit/s)   Flow 1 egress (mean 93.82 Mbit/s)

• Flow 1 (95th percentile 70.75 ms)

```
Run 1: Statistics of Copa

Start at: 2018-07-09 20:14:41
End at: 2018-07-09 20:15:11
Local clock offset: -2.166 ms
Remote clock offset: 5.505 ms

# Below is generated by plot.py at 2018-07-09 23:59:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 46.297 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 87.57 Mbit/s
95th percentile per-packet one-way delay: 46.297 ms
Loss rate: 0.87%
```

Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2018-07-09 20:38:47
End at: 2018-07-09 20:39:17
Local clock offset: -2.916 ms
Remote clock offset: 4.46 ms


# Below is generated by plot.py at 2018-07-09 23:59:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 50.578 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 79.25 Mbit/s
95th percentile per-packet one-way delay: 50.578 ms
Loss rate: 0.44%
```
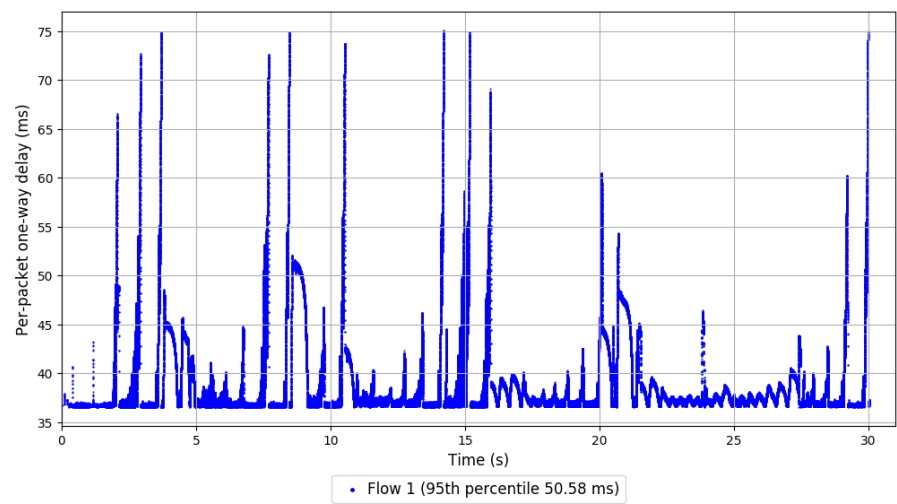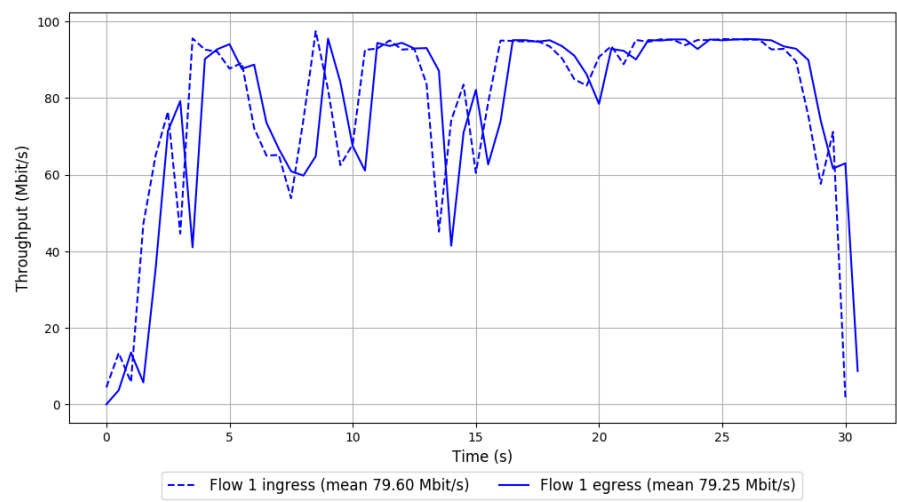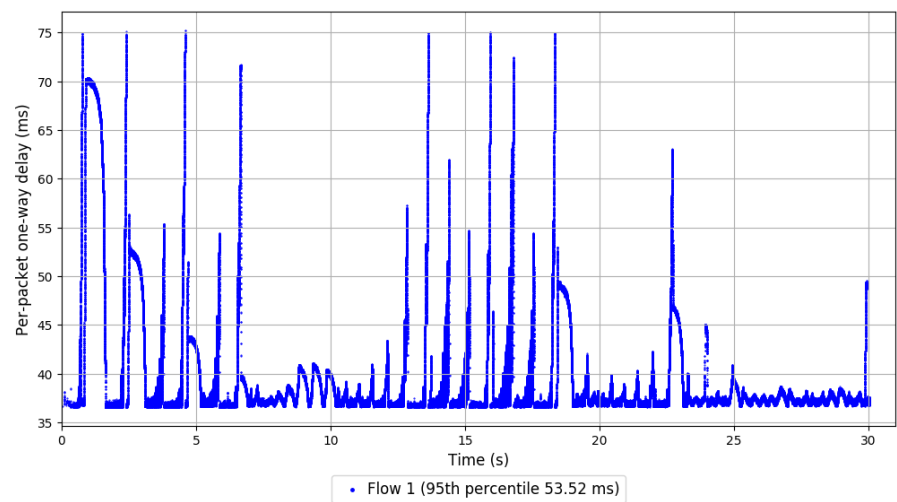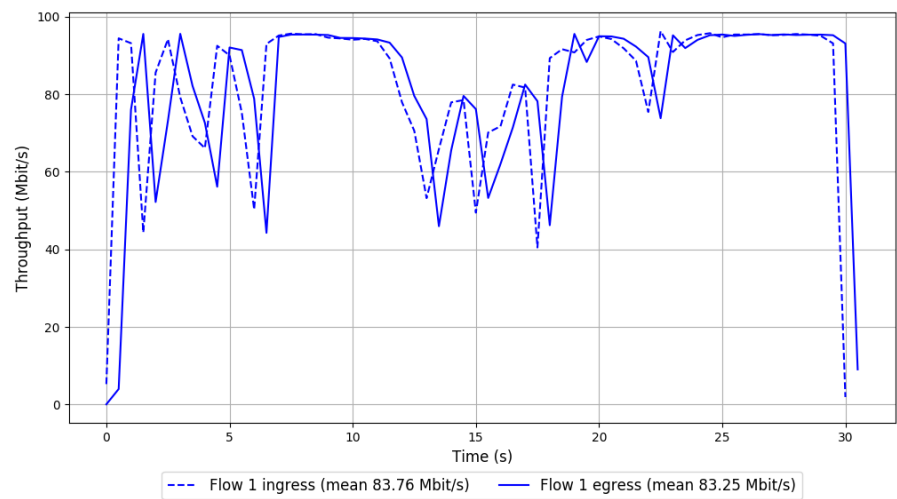
Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 79.60 Mbit/s) — — — —   Flow 1 egress (mean 79.25 Mbit/s) ———

• Flow 1 (95th percentile 50.58 ms)

```
Run 3: Statistics of Copa

Start at: 2018-07-09 21:01:56
End at: 2018-07-09 21:02:26
Local clock offset: -2.362 ms
Remote clock offset: 3.328 ms


# Below is generated by plot.py at 2018-07-09 23:59:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.25 Mbit/s
95th percentile per-packet one-way delay: 53.519 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 83.25 Mbit/s
95th percentile per-packet one-way delay: 53.519 ms
Loss rate: 0.61%
```

Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2018-07-09 21:24:41
End at: 2018-07-09 21:25:11
Local clock offset: -1.118 ms
Remote clock offset: 3.552 ms


# Below is generated by plot.py at 2018-07-09 23:59:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.73 Mbit/s
95th percentile per-packet one-way delay: 55.960 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 80.73 Mbit/s
95th percentile per-packet one-way delay: 55.960 ms
Loss rate: 0.45%
```
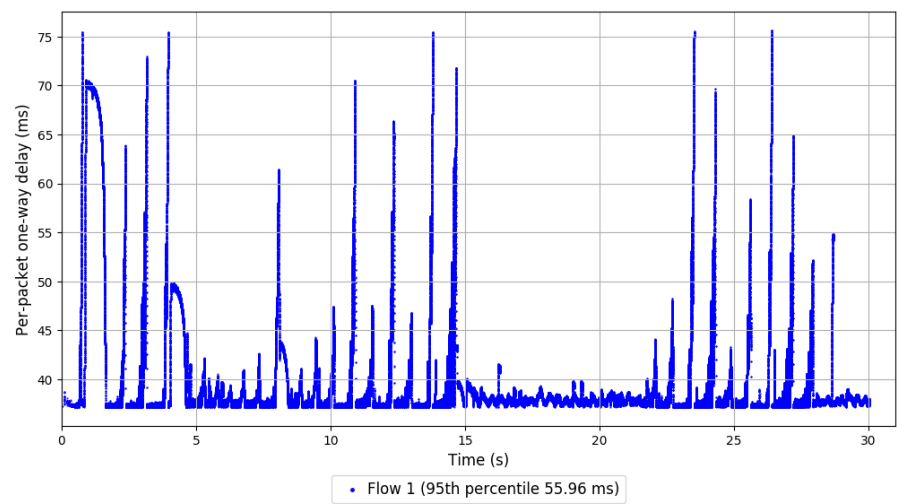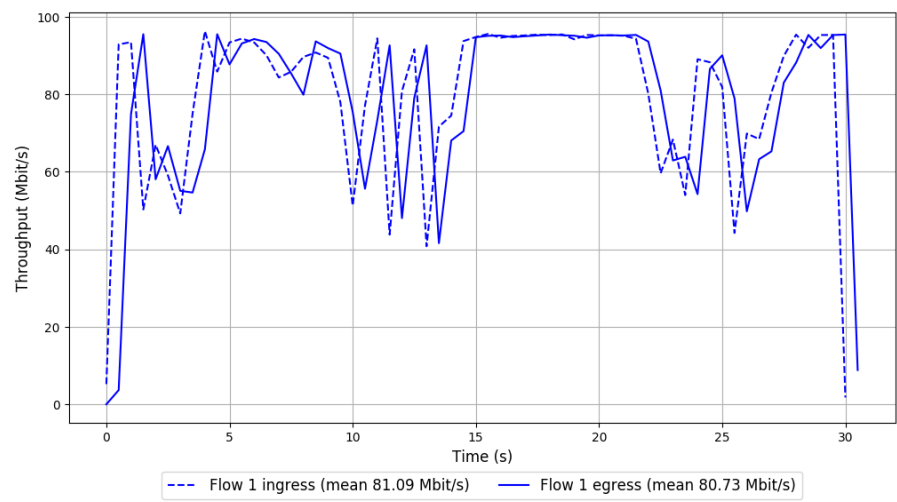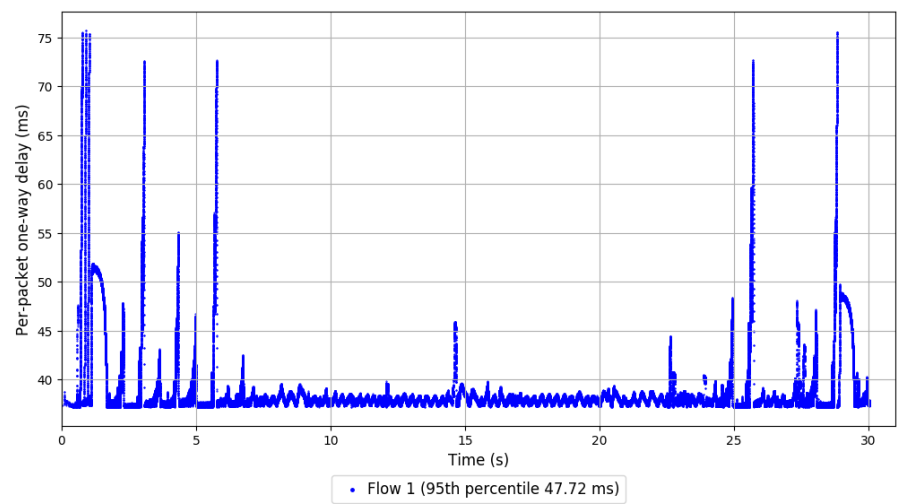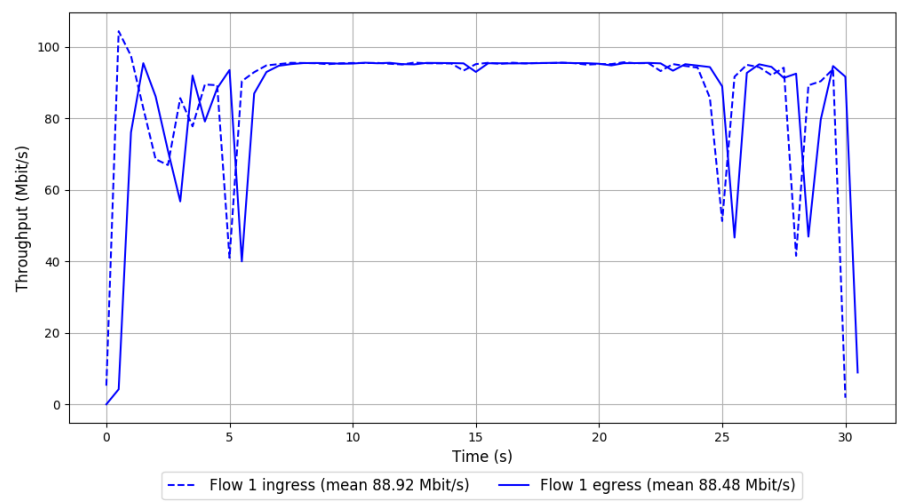
Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 81.09 Mbit/s)   Flow 1 egress (mean 80.73 Mbit/s)

Flow 1 (95th percentile 55.96 ms)

```
Run 5: Statistics of Copa

Start at: 2018-07-09 21:48:05
End at: 2018-07-09 21:48:35
Local clock offset: -0.627 ms
Remote clock offset: 3.84 ms


# Below is generated by plot.py at 2018-07-09 23:59:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.48 Mbit/s
95th percentile per-packet one-way delay: 47.720 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 88.48 Mbit/s
95th percentile per-packet one-way delay: 47.720 ms
Loss rate: 0.50%
```
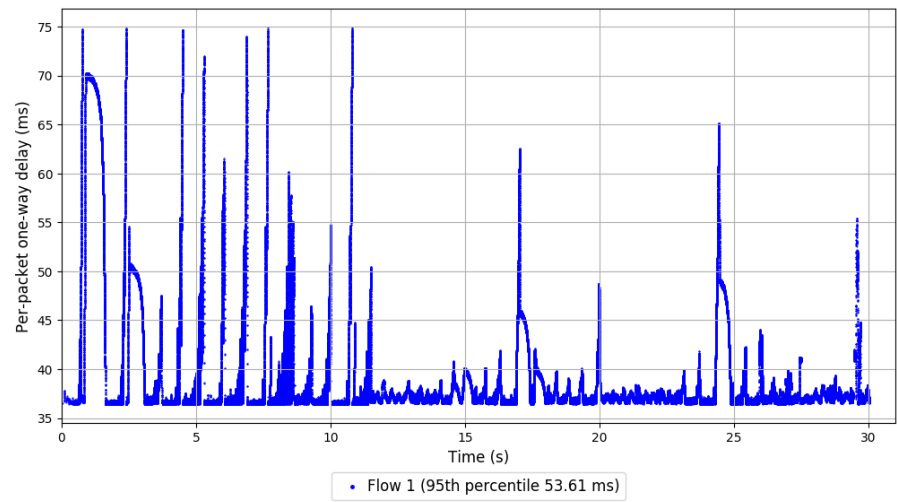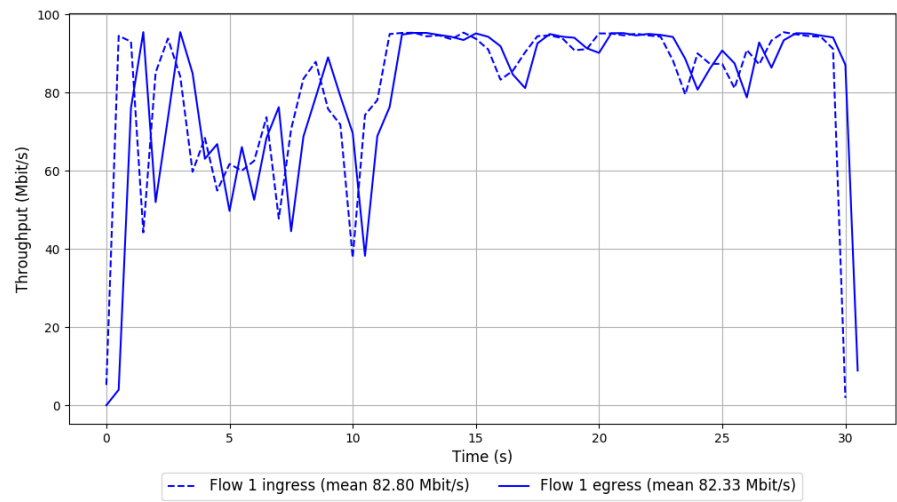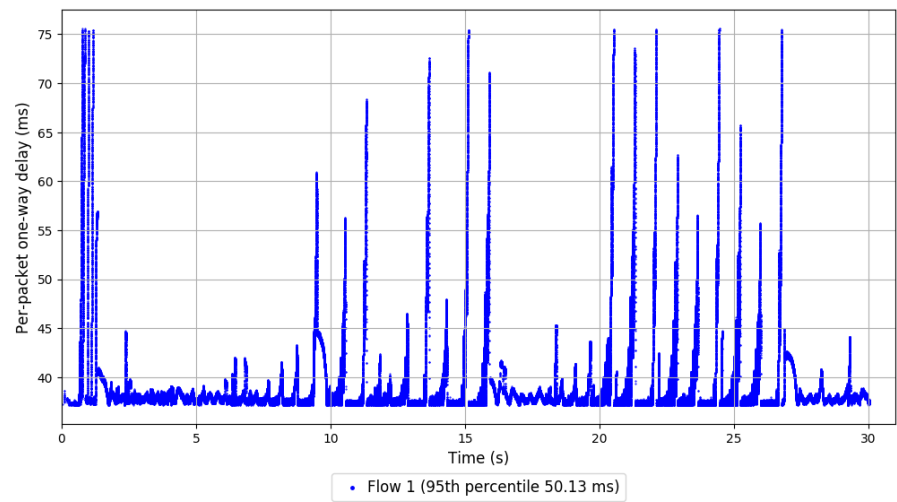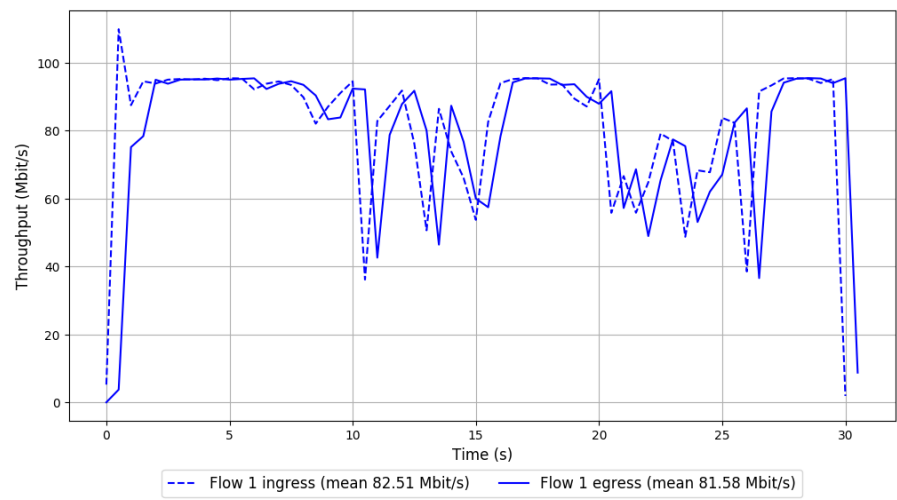
Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 88.92 Mbit/s)   Flow 1 egress (mean 88.48 Mbit/s)

Flow 1 (95th percentile 47.72 ms)

```
Run 6: Statistics of Copa

Start at: 2018-07-09 22:11:43
End at: 2018-07-09 22:12:13
Local clock offset: -0.896 ms
Remote clock offset: 3.768 ms


# Below is generated by plot.py at 2018-07-09 23:59:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.33 Mbit/s
95th percentile per-packet one-way delay: 53.610 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 82.33 Mbit/s
95th percentile per-packet one-way delay: 53.610 ms
Loss rate: 0.57%
```

Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 82.80 Mbit/s) --- Flow 1 egress (mean 82.33 Mbit/s)

• Flow 1 (95th percentile 53.61 ms)

```
Run 7: Statistics of Copa

Start at: 2018-07-09 22:34:52
End at: 2018-07-09 22:35:22
Local clock offset: -1.458 ms
Remote clock offset: 3.894 ms


# Below is generated by plot.py at 2018-07-10 00:00:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.58 Mbit/s
95th percentile per-packet one-way delay: 50.133 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 81.58 Mbit/s
95th percentile per-packet one-way delay: 50.133 ms
Loss rate: 1.12%
```
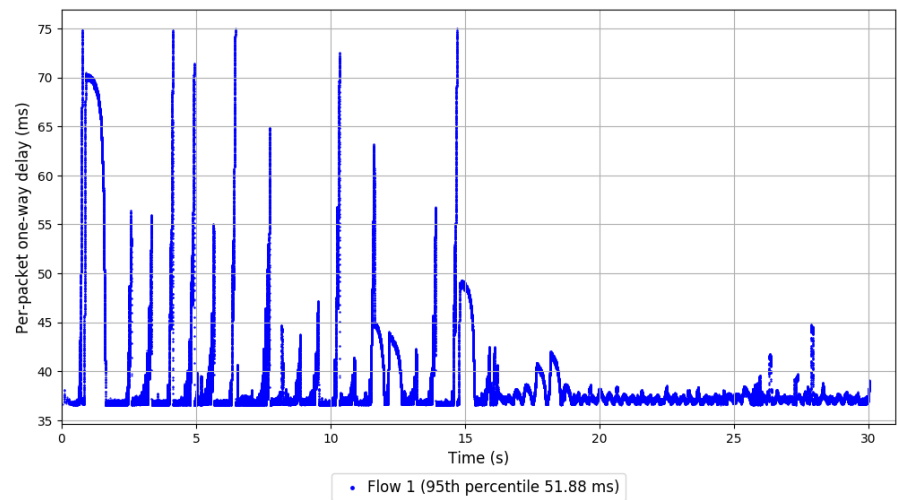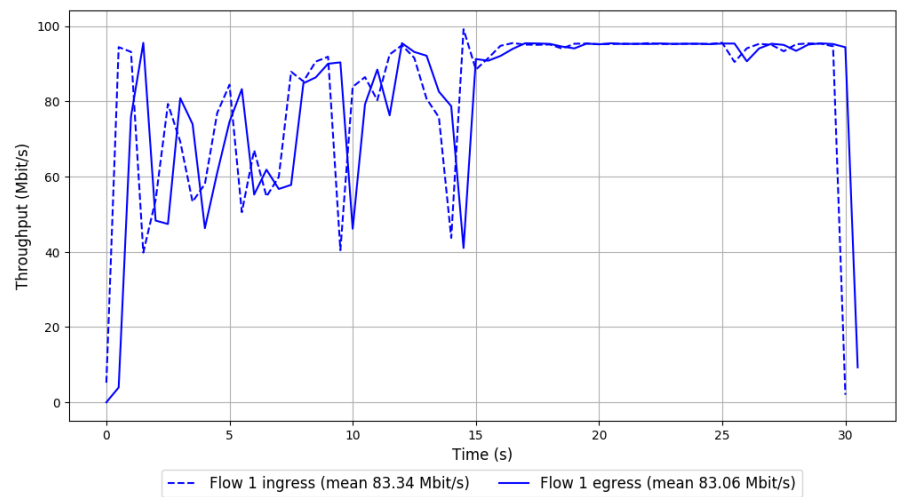
Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 82.51 Mbit/s) ----   Flow 1 egress (mean 81.58 Mbit/s) ——

· Flow 1 (95th percentile 50.13 ms)

```
Run 8: Statistics of Copa

Start at: 2018-07-09 22:59:14
End at: 2018-07-09 22:59:44
Local clock offset: -1.683 ms
Remote clock offset: 3.42 ms


# Below is generated by plot.py at 2018-07-10 00:00:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.06 Mbit/s
95th percentile per-packet one-way delay: 51.875 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 83.06 Mbit/s
95th percentile per-packet one-way delay: 51.875 ms
Loss rate: 0.34%
```

Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: 2018-07-09 23:23:28
End at: 2018-07-09 23:23:58
Local clock offset: -1.786 ms
Remote clock offset: 3.259 ms


# Below is generated by plot.py at 2018-07-10 00:01:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.13 Mbit/s
95th percentile per-packet one-way delay: 44.723 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 89.13 Mbit/s
95th percentile per-packet one-way delay: 44.723 ms
Loss rate: 0.85%
```
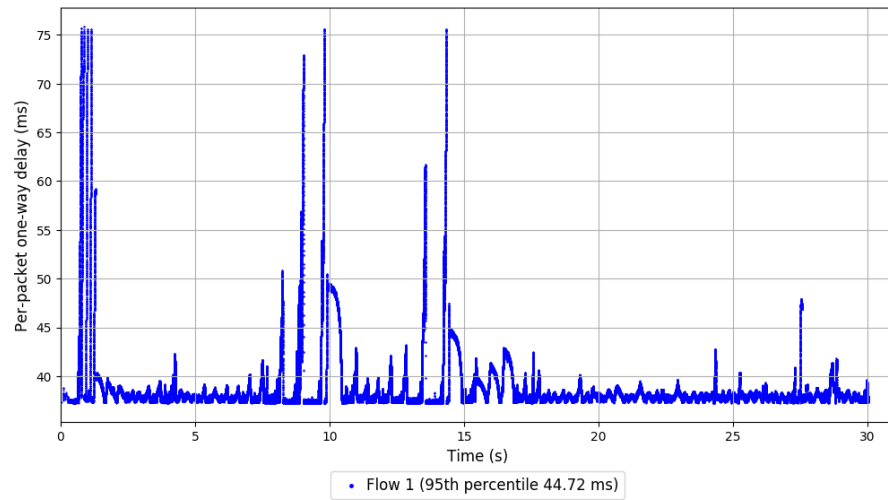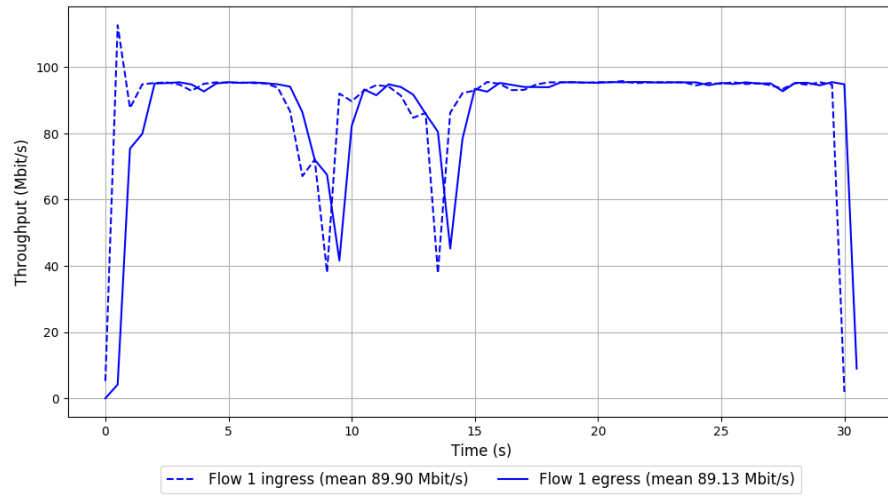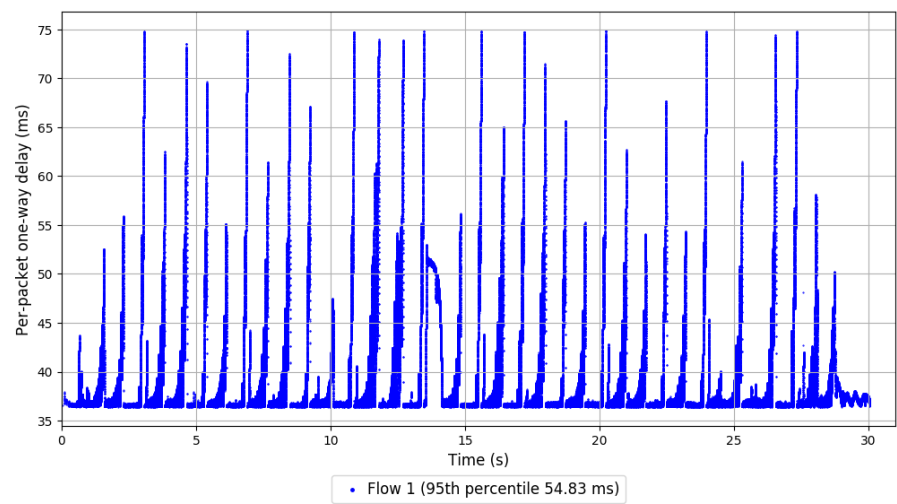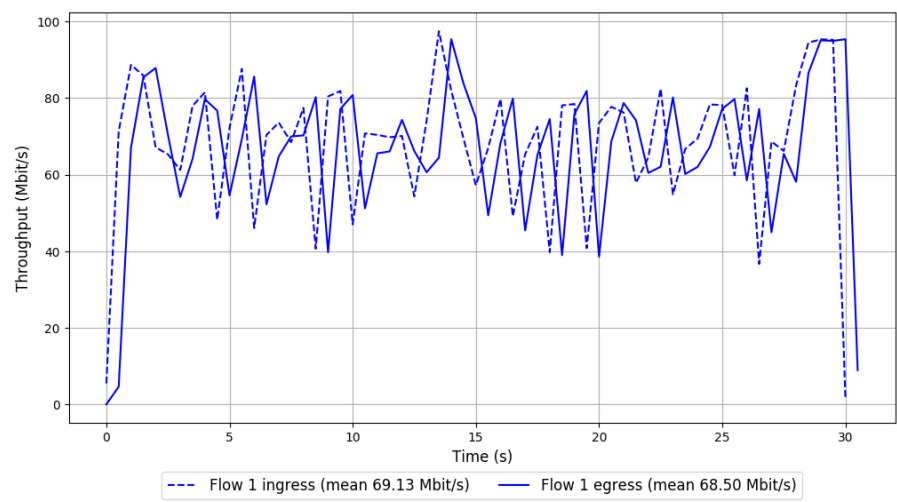
Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 89.90 Mbit/s)   Flow 1 egress (mean 89.13 Mbit/s)

Flow 1 (95th percentile 44.72 ms)

```
Run 10: Statistics of Copa

Start at: 2018-07-09 23:48:03
End at: 2018-07-09 23:48:33
Local clock offset: -1.558 ms
Remote clock offset: 3.752 ms


# Below is generated by plot.py at 2018-07-10 00:01:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.50 Mbit/s
95th percentile per-packet one-way delay: 54.827 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 68.50 Mbit/s
95th percentile per-packet one-way delay: 54.827 ms
Loss rate: 0.91%
```
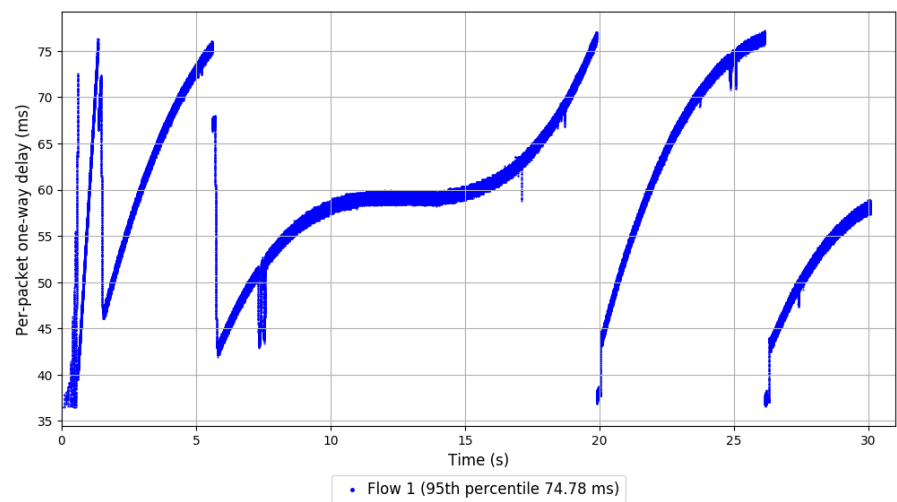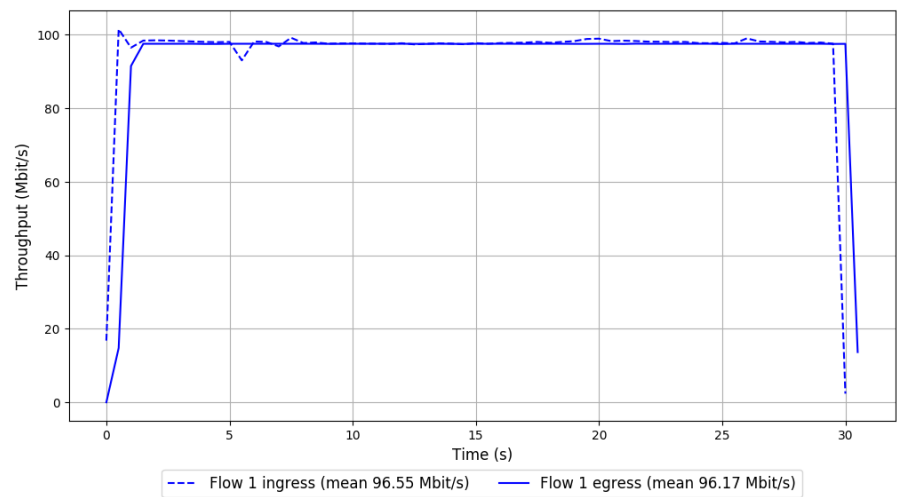
Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 69.13 Mbit/s) — Flow 1 egress (mean 68.50 Mbit/s)

• Flow 1 (95th percentile 54.83 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2018-07-09 20:08:08
End at: 2018-07-09 20:08:38
Local clock offset: -2.044 ms
Remote clock offset: 5.293 ms

# Below is generated by plot.py at 2018-07-10 00:01:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 74.775 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 74.775 ms
Loss rate: 0.32%
```
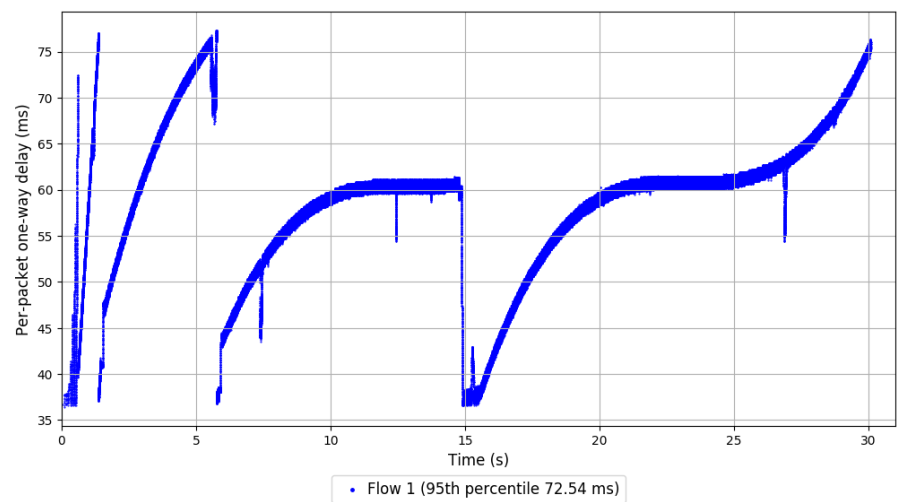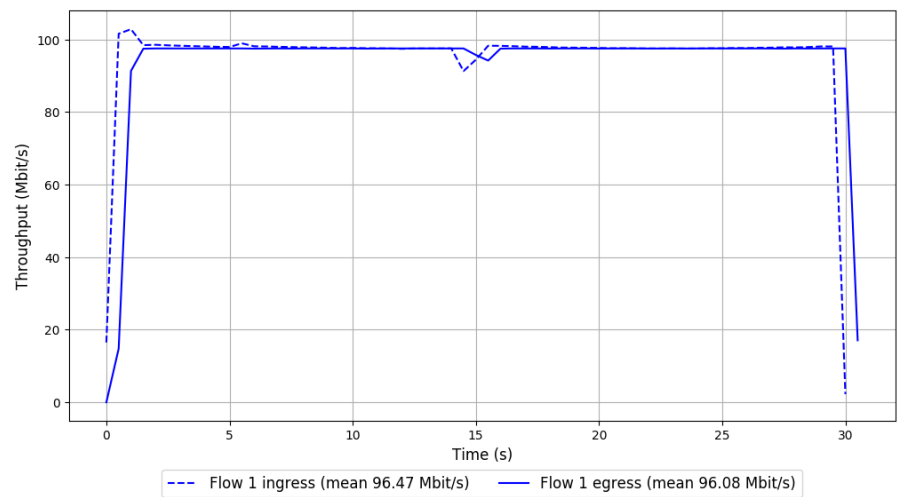
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2018-07-09 20:32:04
End at: 2018-07-09 20:32:34
Local clock offset: -2.559 ms
Remote clock offset: 5.669 ms


# Below is generated by plot.py at 2018-07-10 00:01:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 72.542 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 72.542 ms
Loss rate: 0.27%
```

Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2018-07-09 20:55:14
End at: 2018-07-09 20:55:44
Local clock offset: -2.805 ms
Remote clock offset: 3.407 ms


# Below is generated by plot.py at 2018-07-10 00:01:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 76.166 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 94.71 Mbit/s
95th percentile per-packet one-way delay: 76.166 ms
Loss rate: 0.68%
```
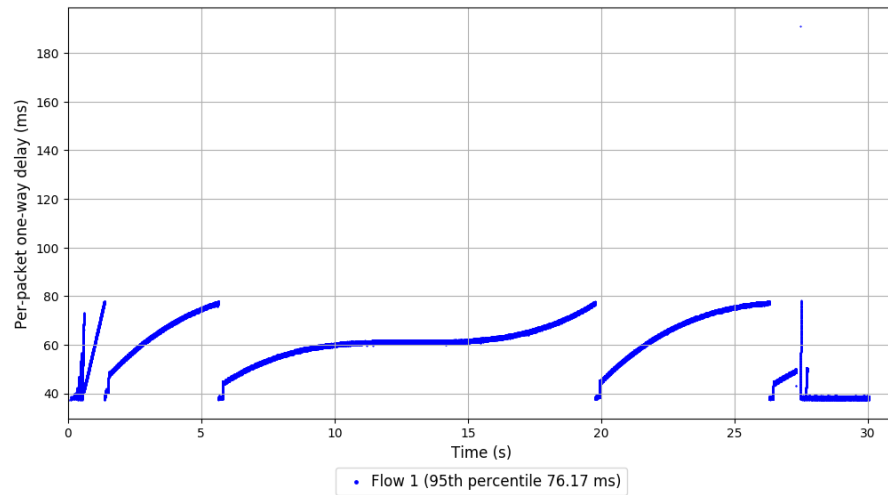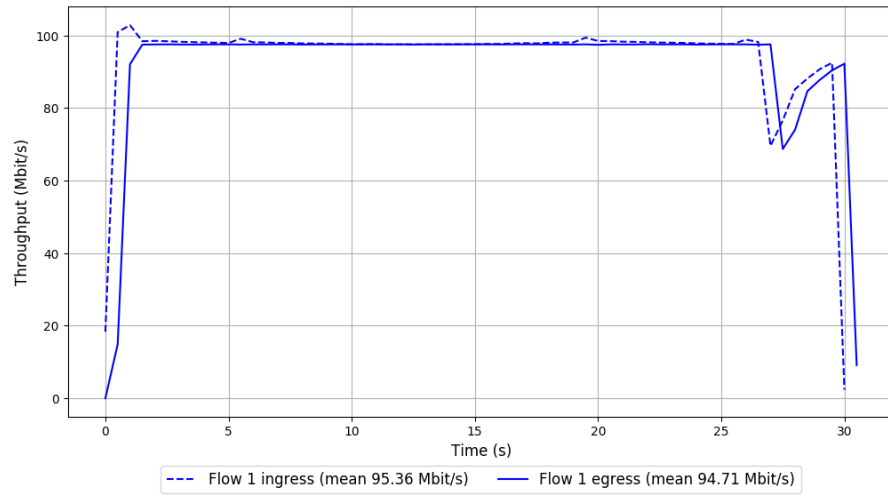
Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: 2018-07-09 21:18:11
End at: 2018-07-09 21:18:41
Local clock offset: -1.573 ms
Remote clock offset: 3.583 ms

# Below is generated by plot.py at 2018-07-10 00:01:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 71.574 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 71.574 ms
Loss rate: 0.29%
```
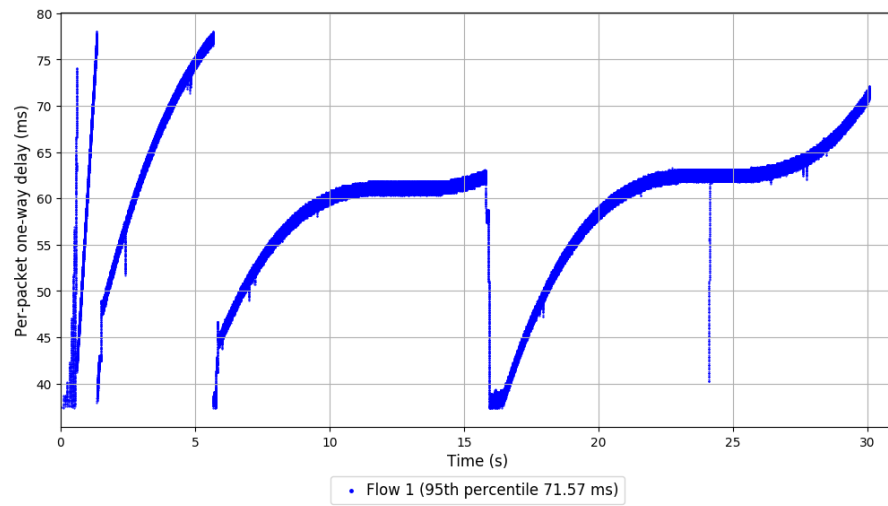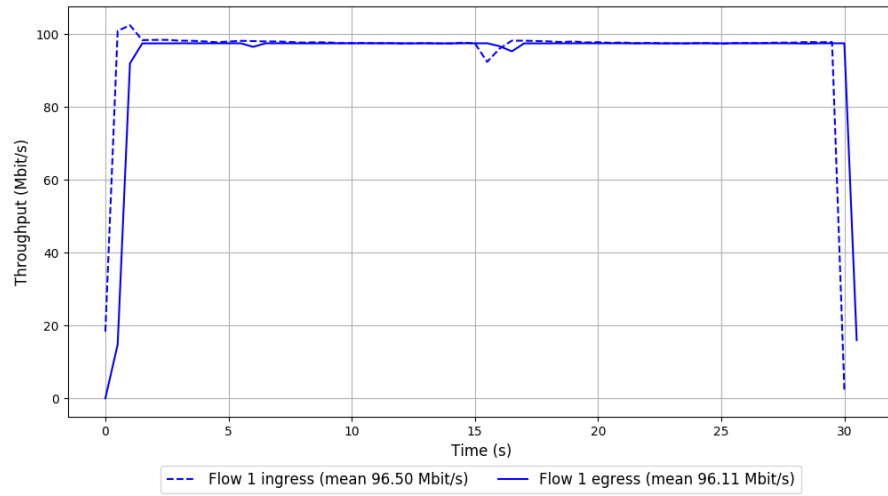
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2018-07-09 21:41:30
End at: 2018-07-09 21:42:00
Local clock offset: -0.701 ms
Remote clock offset: 3.624 ms


# Below is generated by plot.py at 2018-07-10 00:01:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 72.420 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 72.420 ms
Loss rate: 0.33%
```
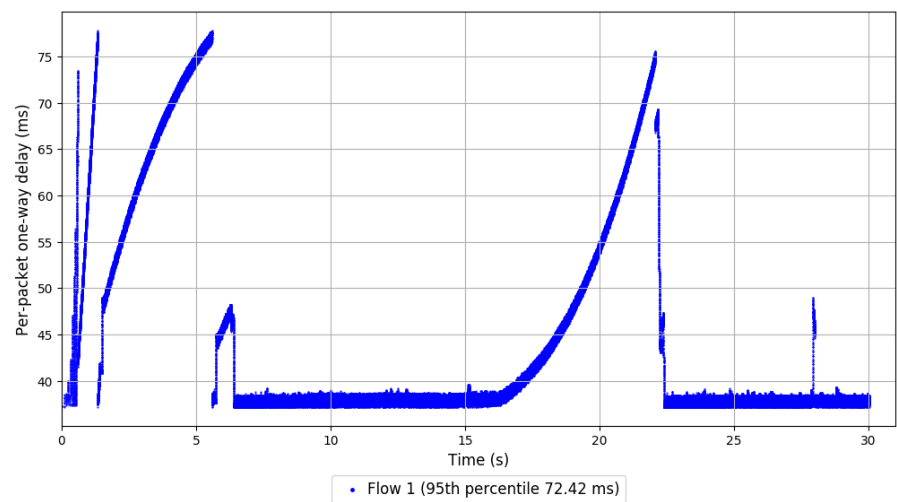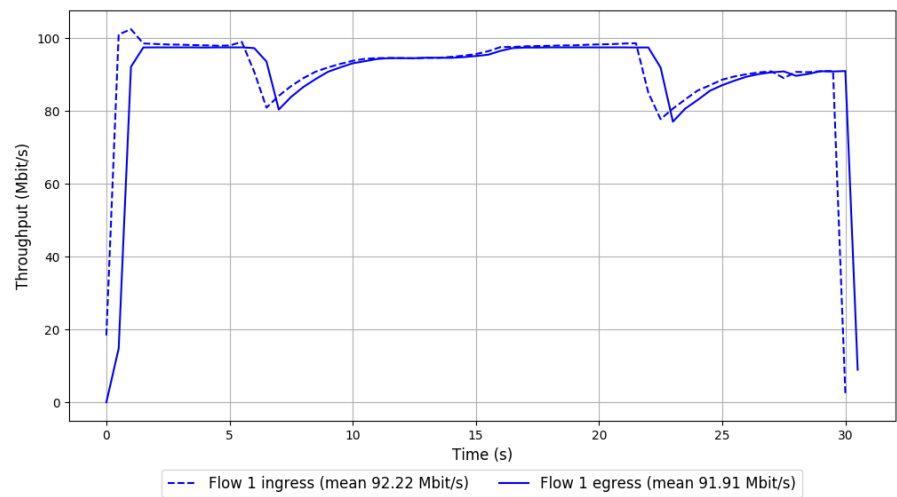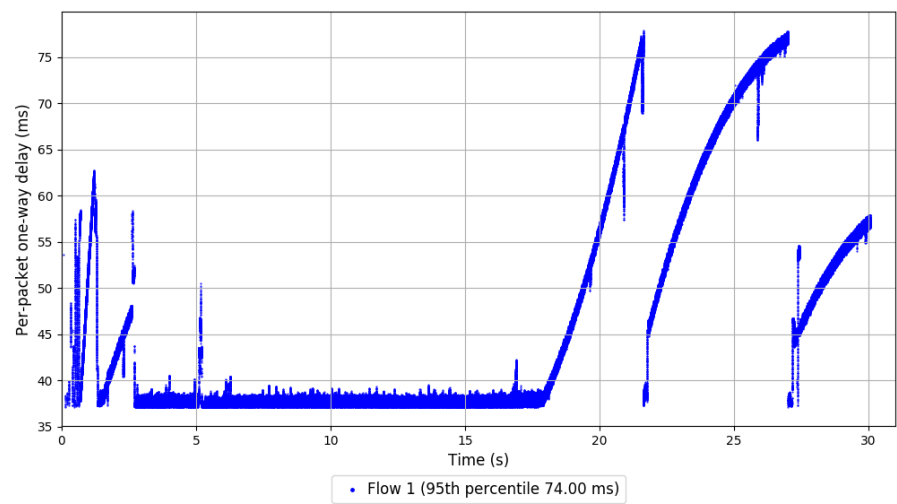
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 92.22 Mbit/s)   Flow 1 egress (mean 91.91 Mbit/s)

Flow 1 (95th percentile 72.42 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-07-09 22:05:02
End at: 2018-07-09 22:05:32
Local clock offset: -0.793 ms
Remote clock offset: 3.838 ms


# Below is generated by plot.py at 2018-07-10 00:01:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.92 Mbit/s
95th percentile per-packet one-way delay: 74.002 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 86.92 Mbit/s
95th percentile per-packet one-way delay: 74.002 ms
Loss rate: 0.38%
```
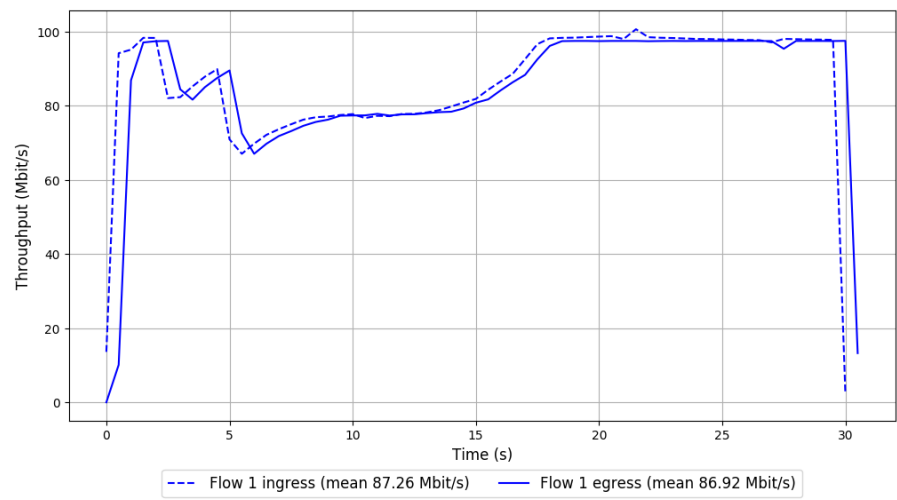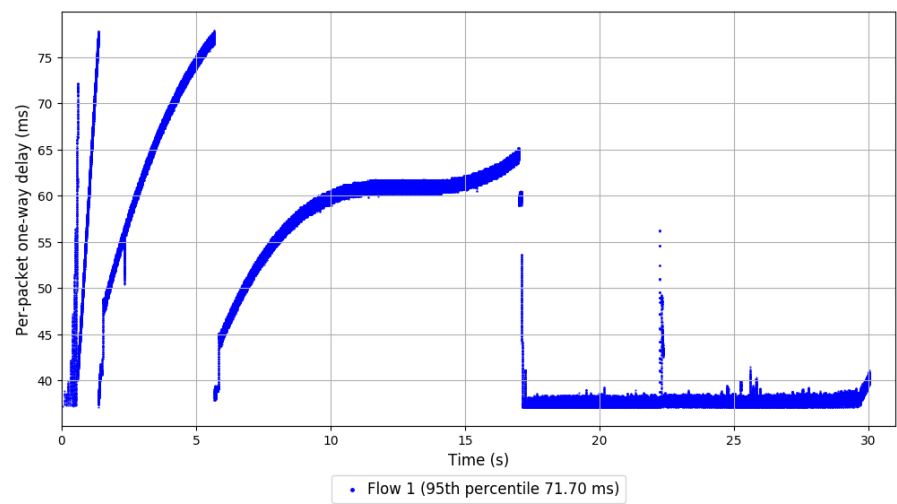
Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 87.26 Mbit/s)   Flow 1 egress (mean 86.92 Mbit/s)

Flow 1 (95th percentile 74.00 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2018-07-09 22:28:15
End at: 2018-07-09 22:28:45
Local clock offset: -1.281 ms
Remote clock offset: 3.994 ms


# Below is generated by plot.py at 2018-07-10 00:01:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.06 Mbit/s
95th percentile per-packet one-way delay: 71.700 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 89.06 Mbit/s
95th percentile per-packet one-way delay: 71.700 ms
Loss rate: 0.33%
```
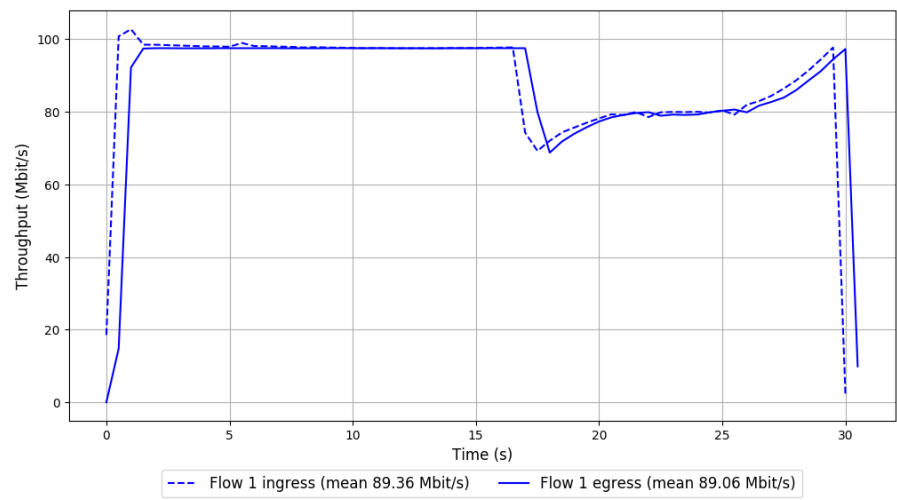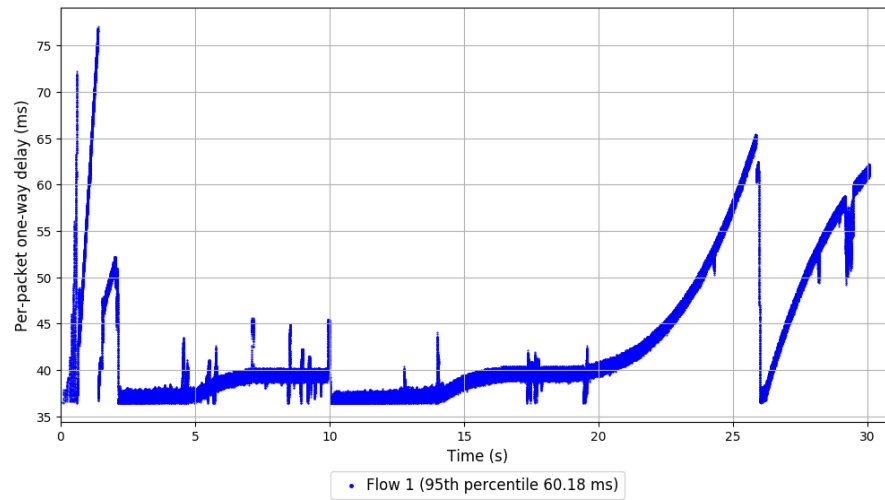
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 89.36 Mbit/s)   Flow 1 egress (mean 89.06 Mbit/s)

Flow 1 (95th percentile 71.70 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-07-09 22:52:25
End at: 2018-07-09 22:52:55
Local clock offset: -1.54 ms
Remote clock offset: 3.562 ms


# Below is generated by plot.py at 2018-07-10 00:01:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 60.181 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 93.92 Mbit/s
95th percentile per-packet one-way delay: 60.181 ms
Loss rate: 0.17%
```
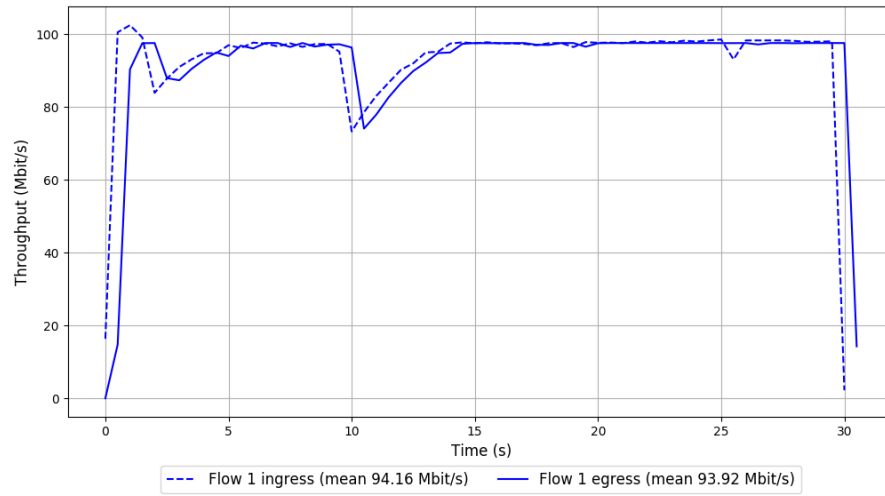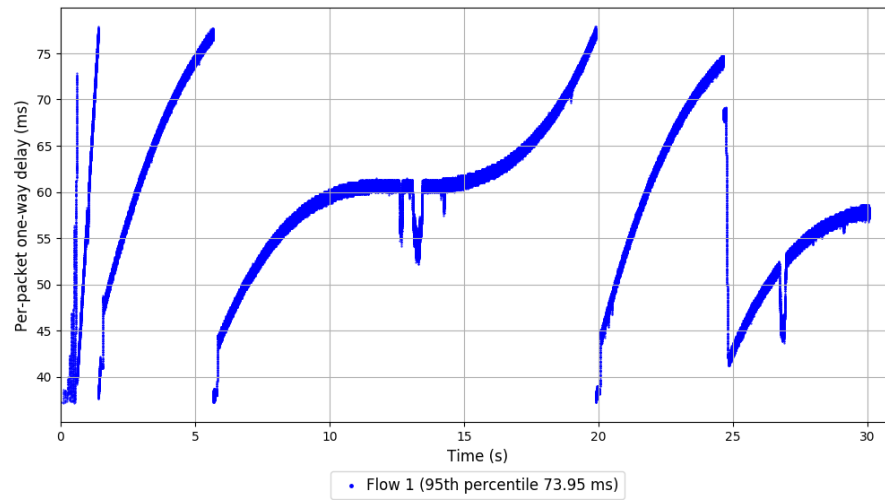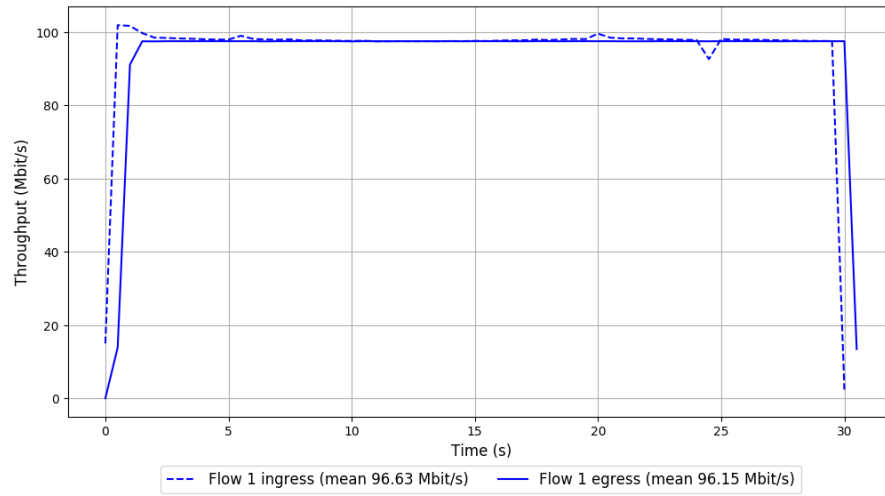
Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 94.16 Mbit/s) —— Flow 1 egress (mean 93.92 Mbit/s)

• Flow 1 (95th percentile 60.18 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2018-07-09 23:16:34
End at: 2018-07-09 23:17:04
Local clock offset: -1.716 ms
Remote clock offset: 3.168 ms

# Below is generated by plot.py at 2018-07-10 00:01:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 73.947 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 96.15 Mbit/s
95th percentile per-packet one-way delay: 73.947 ms
Loss rate: 0.43%
```
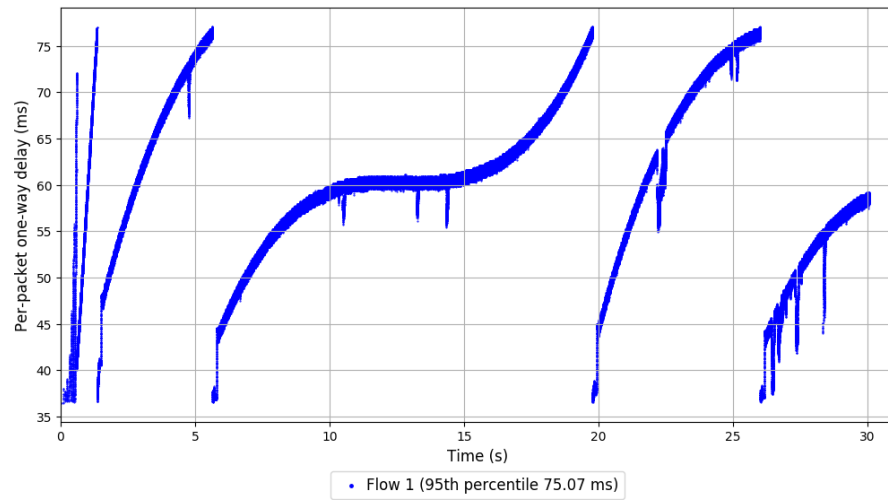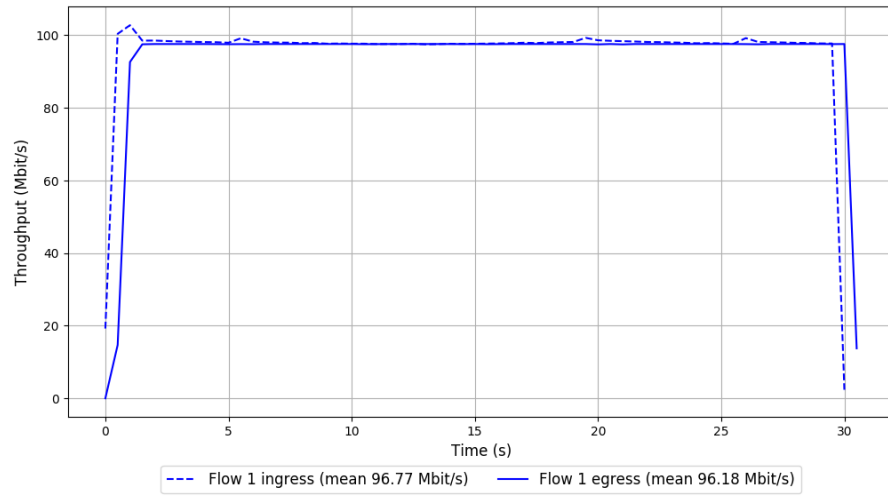
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 96.63 Mbit/s) ----- Flow 1 egress (mean 96.15 Mbit/s)

Flow 1 (95th percentile 73.95 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-07-09 23:41:07
End at: 2018-07-09 23:41:37
Local clock offset: -1.6 ms
Remote clock offset: 3.762 ms


# Below is generated by plot.py at 2018-07-10 00:01:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 75.072 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 96.18 Mbit/s
95th percentile per-packet one-way delay: 75.072 ms
Loss rate: 0.54%
```

Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of FillP

Start at: 2018-07-09 20:02:44
End at: 2018-07-09 20:03:14
Local clock offset: -2.222 ms
Remote clock offset: 5.189 ms


# Below is generated by plot.py at 2018-07-10 00:02:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 72.902 ms
Loss rate: 8.12%
-- Flow 1:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 72.902 ms
Loss rate: 8.12%
```
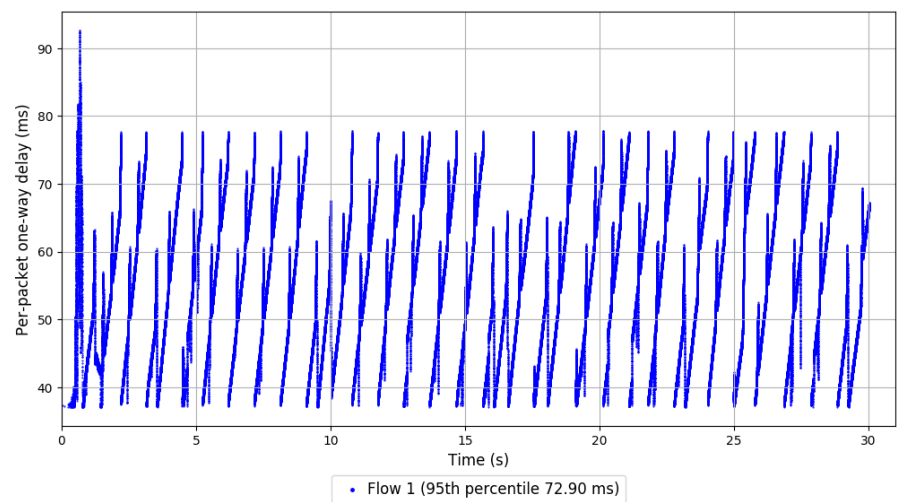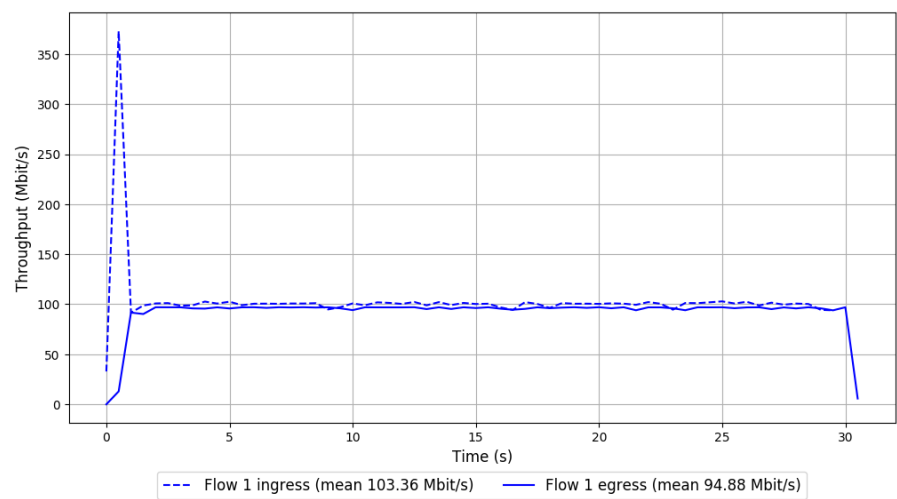
Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2018-07-09 20:26:04
End at: 2018-07-09 20:26:34
Local clock offset: -2.216 ms
Remote clock offset: 5.735 ms


# Below is generated by plot.py at 2018-07-10 00:02:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 72.207 ms
Loss rate: 8.30%
-- Flow 1:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 72.207 ms
Loss rate: 8.30%
```
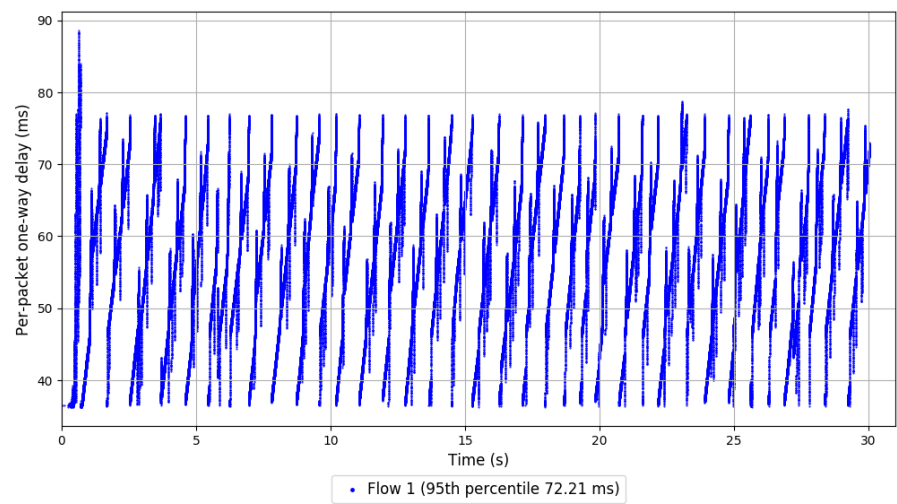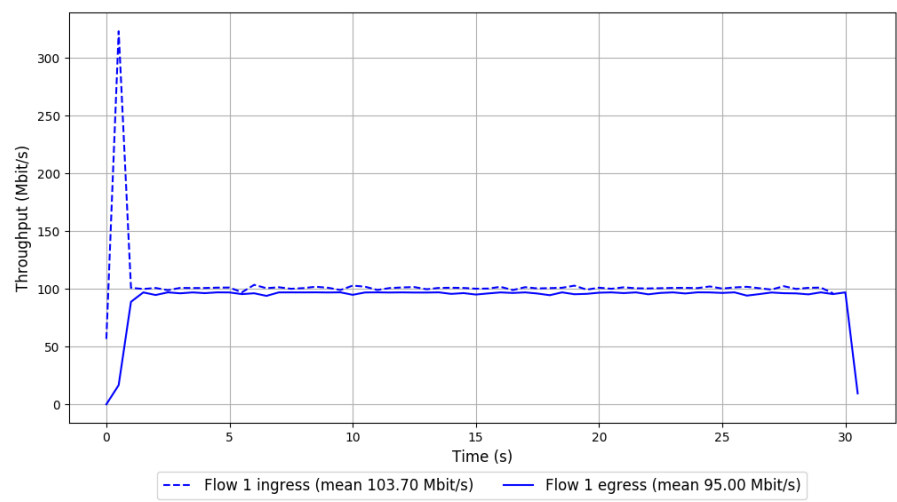
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2018-07-09 20:49:44
End at: 2018-07-09 20:50:14
Local clock offset: -3.253 ms
Remote clock offset: 3.566 ms


# Below is generated by plot.py at 2018-07-10 00:02:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 72.732 ms
Loss rate: 8.64%
-- Flow 1:
Average throughput: 95.25 Mbit/s
95th percentile per-packet one-way delay: 72.732 ms
Loss rate: 8.64%
```
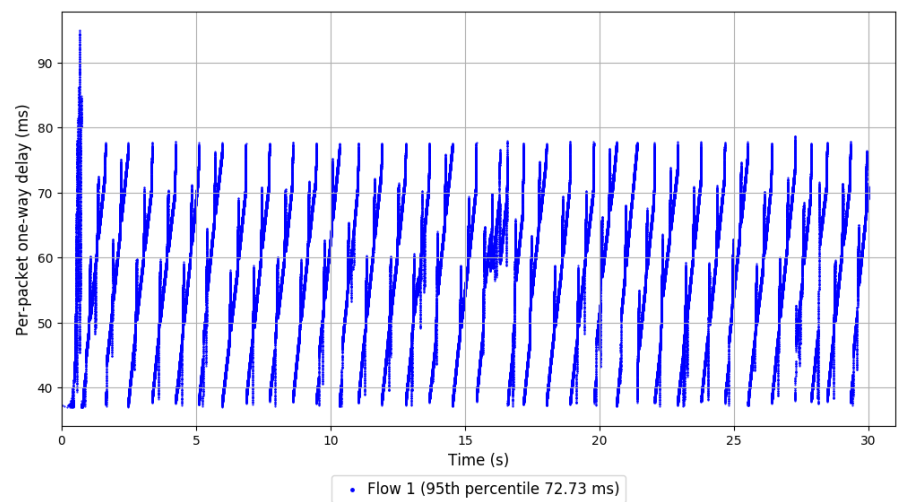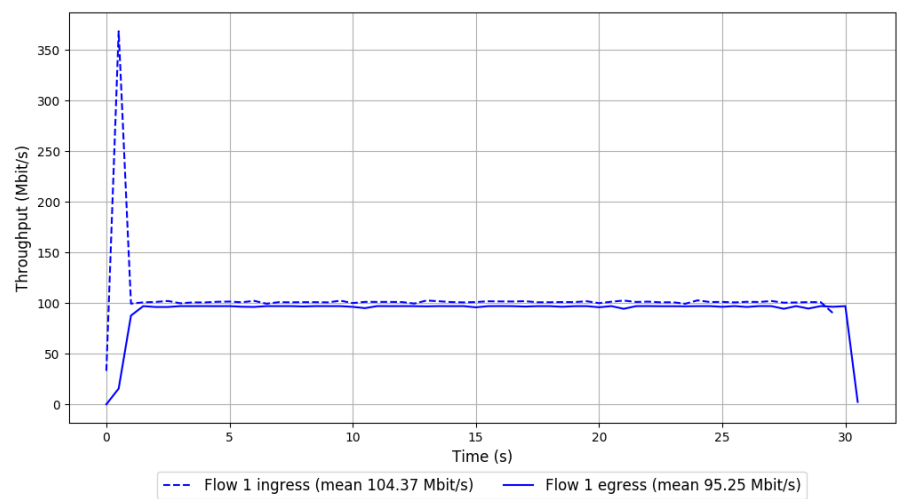
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 104.37 Mbit/s) ----- Flow 1 egress (mean 95.25 Mbit/s)

• Flow 1 (95th percentile 72.73 ms)

```
Run 4: Statistics of FillP

Start at: 2018-07-09 21:12:44
End at: 2018-07-09 21:13:14
Local clock offset: -1.92 ms
Remote clock offset: 3.477 ms


# Below is generated by plot.py at 2018-07-10 00:02:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 72.513 ms
Loss rate: 8.30%
-- Flow 1:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 72.513 ms
Loss rate: 8.30%
```
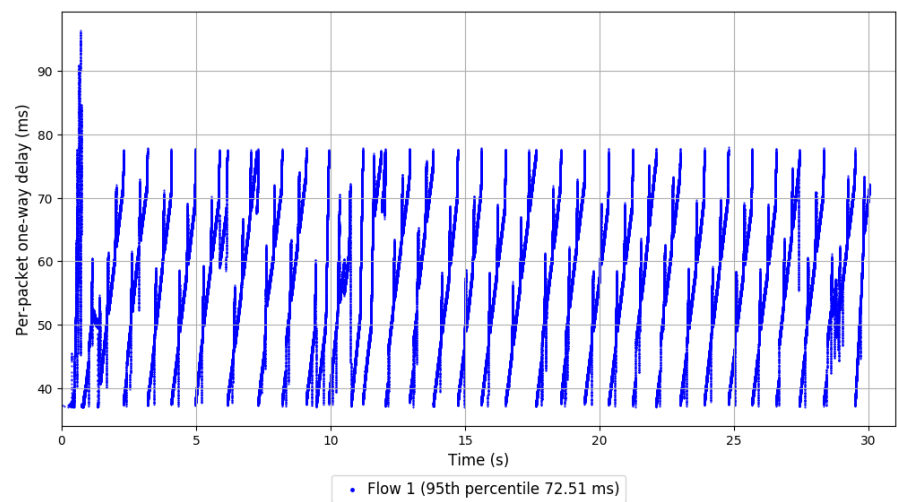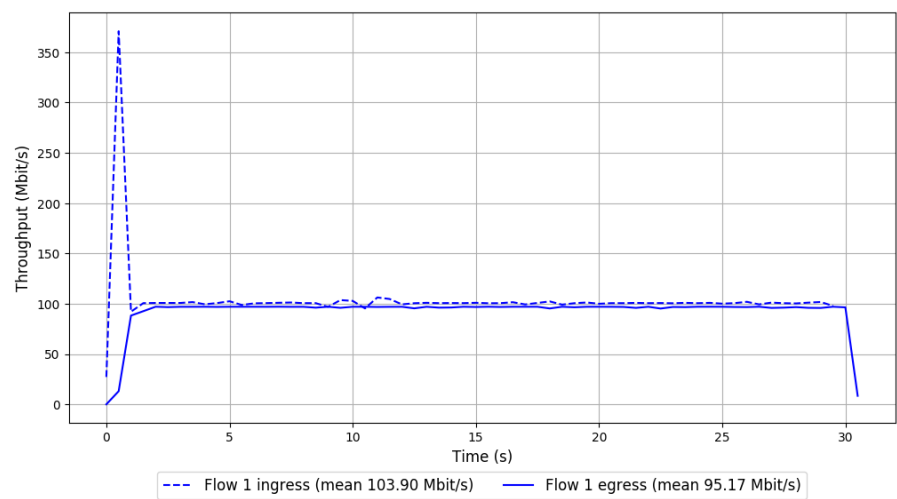
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 103.90 Mbit/s)   Flow 1 egress (mean 95.17 Mbit/s)

Flow 1 (95th percentile 72.51 ms)

```
Run 5: Statistics of FillP

Start at: 2018-07-09 21:35:47
End at: 2018-07-09 21:36:17
Local clock offset: -0.781 ms
Remote clock offset: 3.55 ms


# Below is generated by plot.py at 2018-07-10 00:02:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.05 Mbit/s
95th percentile per-packet one-way delay: 71.999 ms
Loss rate: 7.98%
-- Flow 1:
Average throughput: 95.05 Mbit/s
95th percentile per-packet one-way delay: 71.999 ms
Loss rate: 7.98%
```
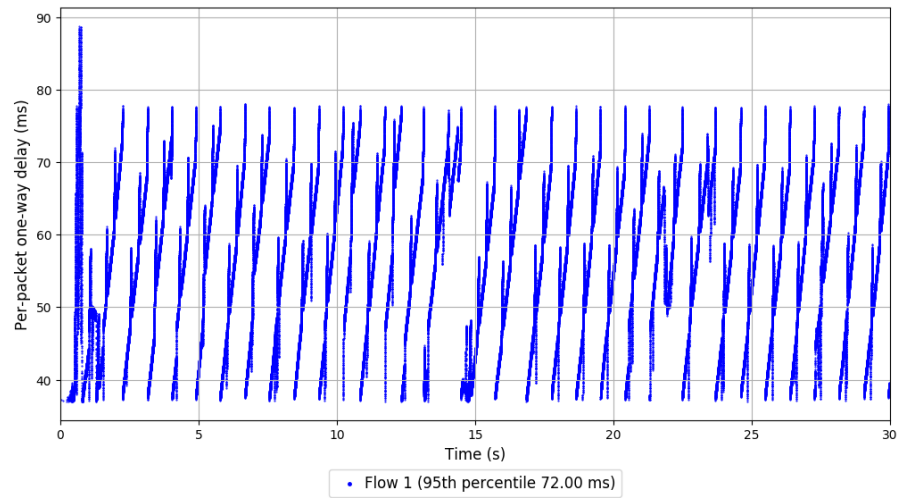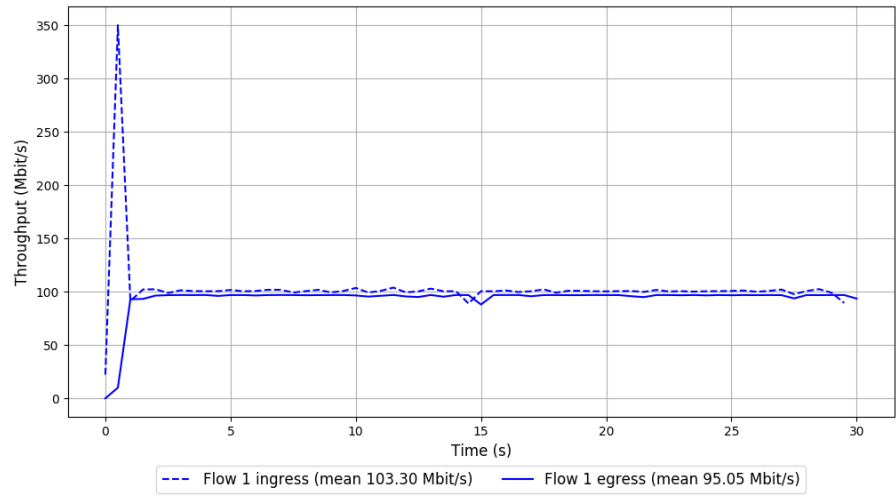
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 103.30 Mbit/s) --- Flow 1 egress (mean 95.05 Mbit/s)

• Flow 1 (95th percentile 72.00 ms)

73

```
Run 6: Statistics of FillP

Start at: 2018-07-09 21:59:18
End at: 2018-07-09 21:59:48
Local clock offset: -0.717 ms
Remote clock offset: 3.905 ms


# Below is generated by plot.py at 2018-07-10 00:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 72.639 ms
Loss rate: 8.73%
-- Flow 1:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 72.639 ms
Loss rate: 8.73%
```
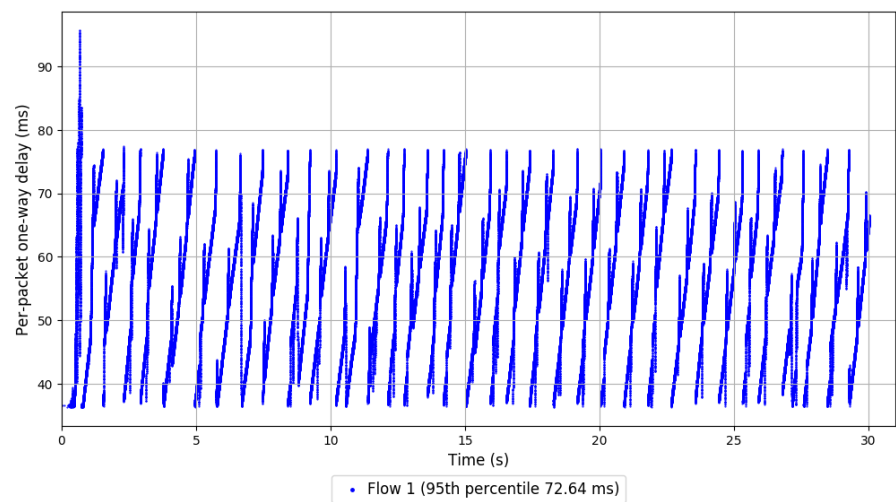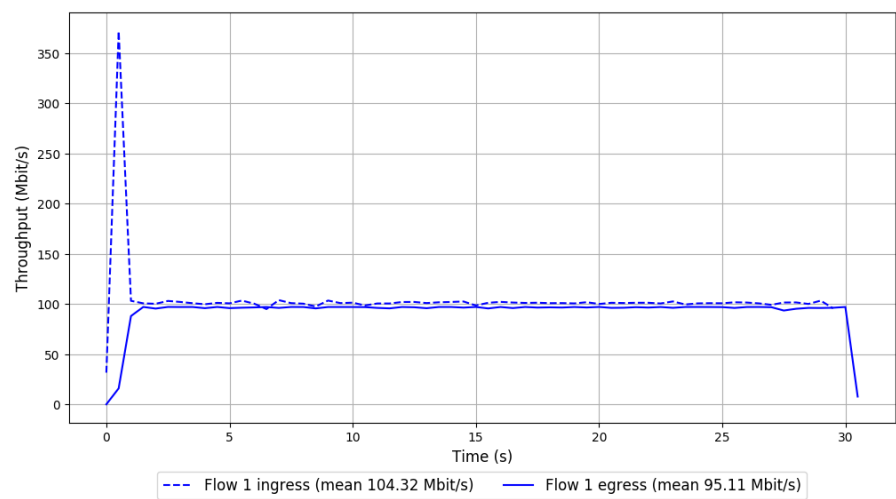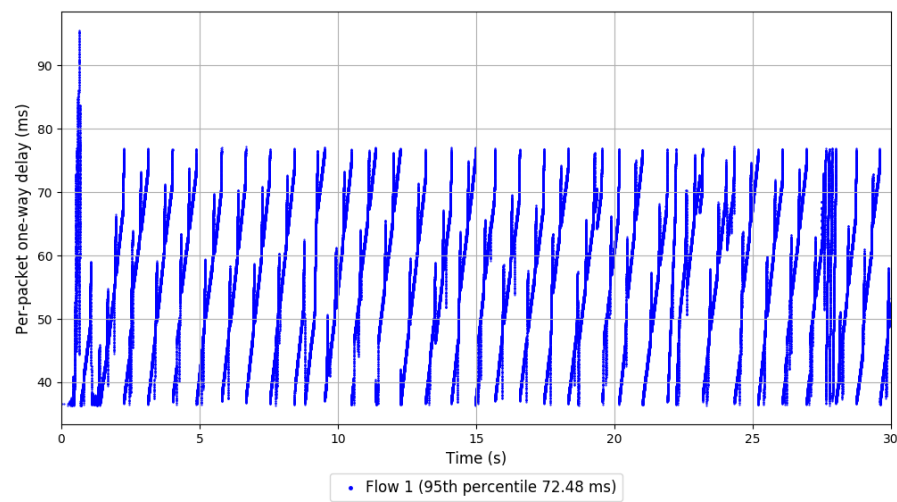
Run 6: Report of FillP — Data Link

Flow 1 ingress (mean 104.32 Mbit/s) ----- Flow 1 egress (mean 95.11 Mbit/s)

Flow 1 (95th percentile 72.64 ms)

```
Run 7: Statistics of FillP

Start at: 2018-07-09 22:22:24
End at: 2018-07-09 22:22:54
Local clock offset: -1.138 ms
Remote clock offset: 3.986 ms


# Below is generated by plot.py at 2018-07-10 00:03:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 72.481 ms
Loss rate: 8.09%
-- Flow 1:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 72.481 ms
Loss rate: 8.09%
```
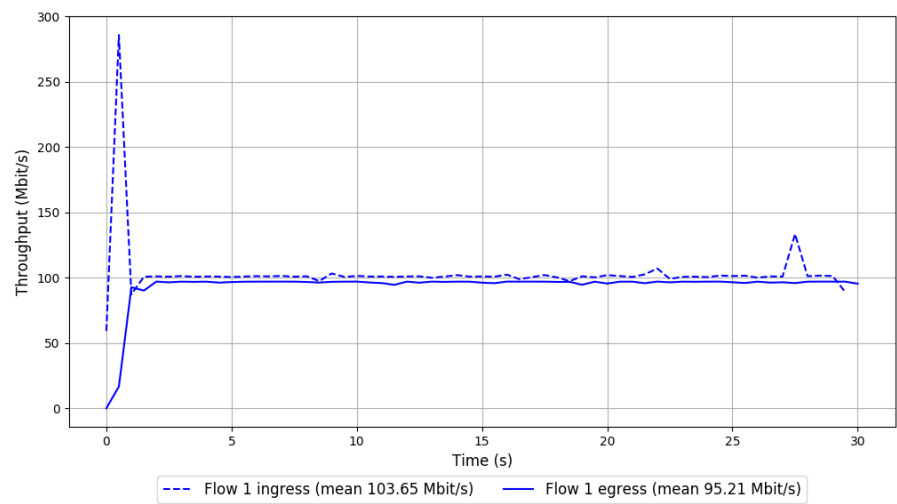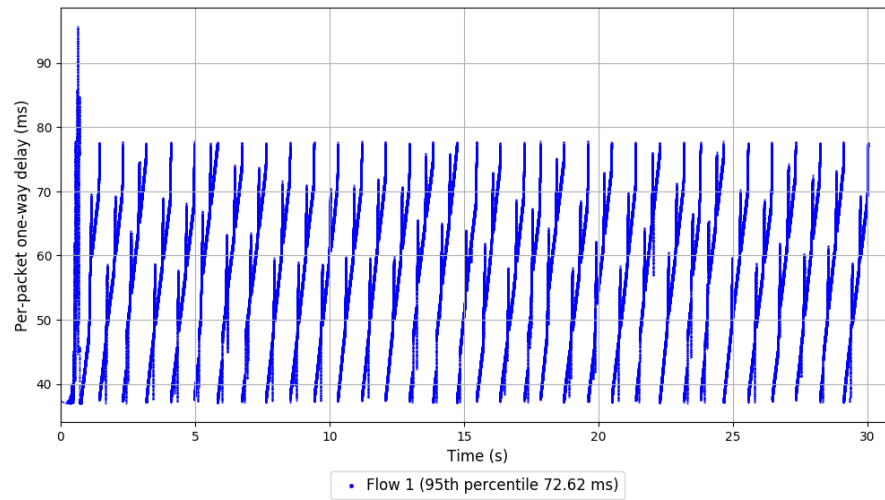
Run 7: Report of FillP — Data Link

Flow 1 ingress (mean 103.65 Mbit/s) —— Flow 1 egress (mean 95.21 Mbit/s)

• Flow 1 (95th percentile 72.48 ms)

```
Run 8: Statistics of FillP

Start at: 2018-07-09 22:46:21
End at: 2018-07-09 22:46:51
Local clock offset: -1.476 ms
Remote clock offset: 3.813 ms


# Below is generated by plot.py at 2018-07-10 00:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 72.618 ms
Loss rate: 8.65%
-- Flow 1:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 72.618 ms
Loss rate: 8.65%
```
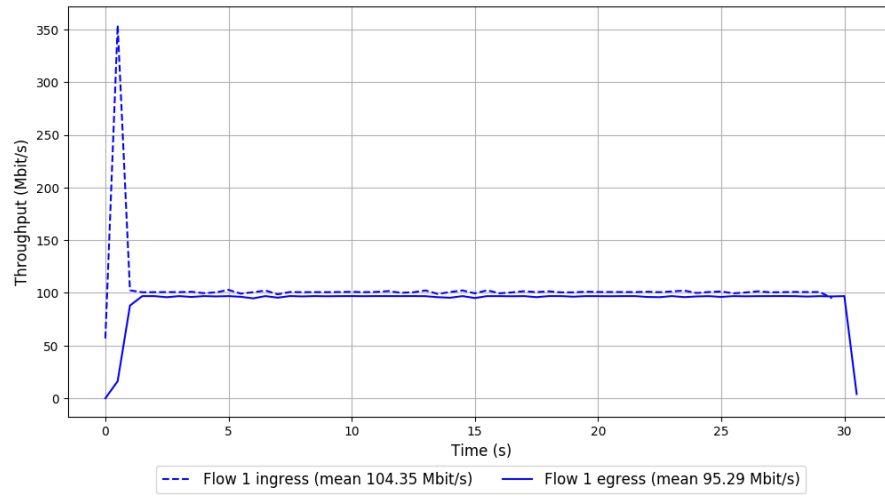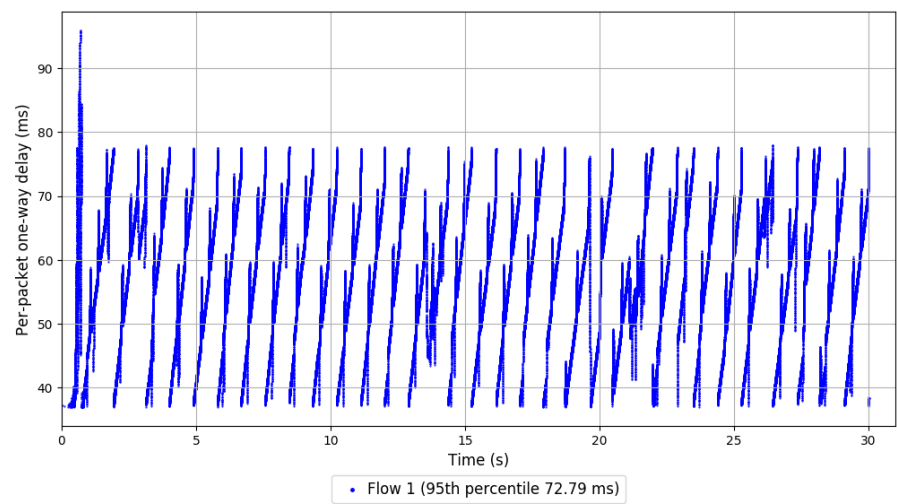
Run 8: Report of FillP — Data Link

Flow 1 ingress (mean 104.35 Mbit/s) --- Flow 1 egress (mean 95.29 Mbit/s)

Flow 1 (95th percentile 72.62 ms)

```
Run 9: Statistics of FillP

Start at: 2018-07-09 23:10:35
End at: 2018-07-09 23:11:05
Local clock offset: -1.659 ms
Remote clock offset: 3.226 ms


# Below is generated by plot.py at 2018-07-10 00:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 72.787 ms
Loss rate: 8.65%
-- Flow 1:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 72.787 ms
Loss rate: 8.65%
```
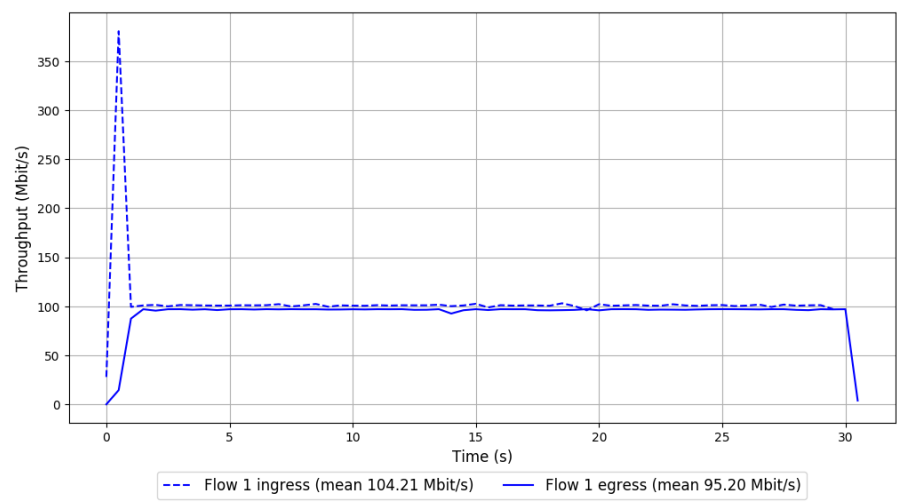
Run 9: Report of FillP — Data Link

```
Run 10: Statistics of FillP

Start at: 2018-07-09 23:35:24
End at: 2018-07-09 23:35:54
Local clock offset: -1.758 ms
Remote clock offset: 3.698 ms


# Below is generated by plot.py at 2018-07-10 00:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 71.935 ms
Loss rate: 7.66%
-- Flow 1:
Average throughput: 95.20 Mbit/s
95th percentile per-packet one-way delay: 71.935 ms
Loss rate: 7.66%
```
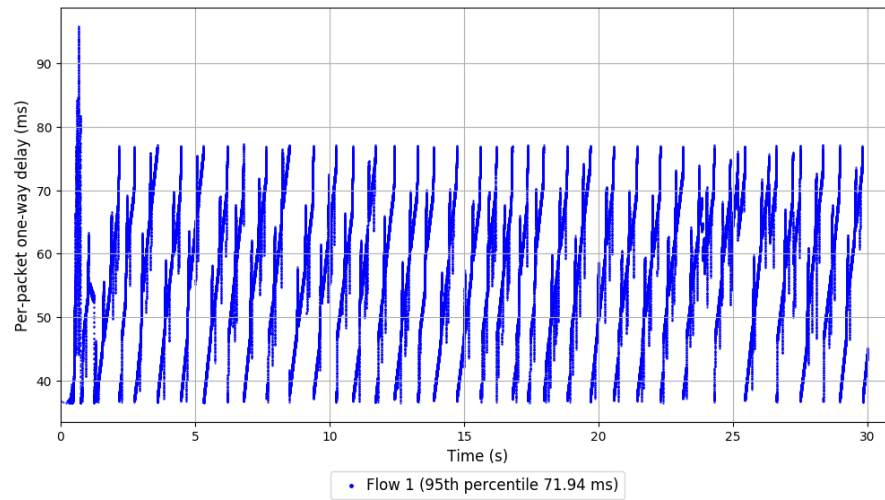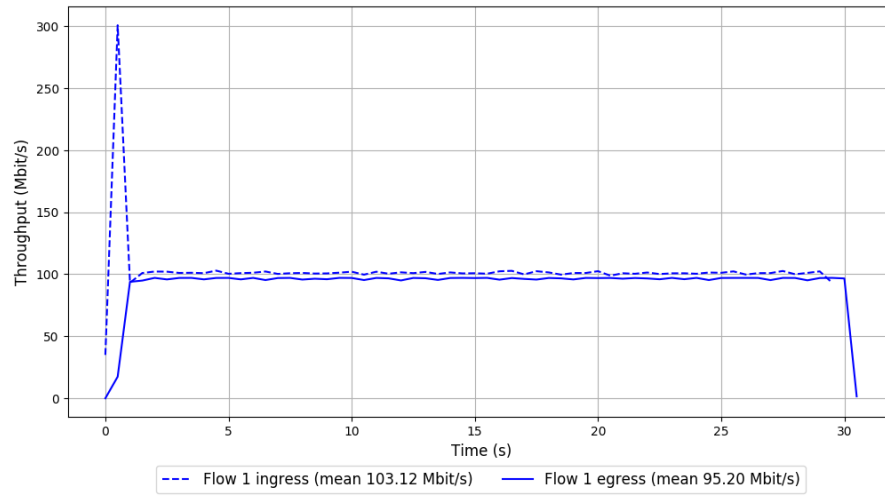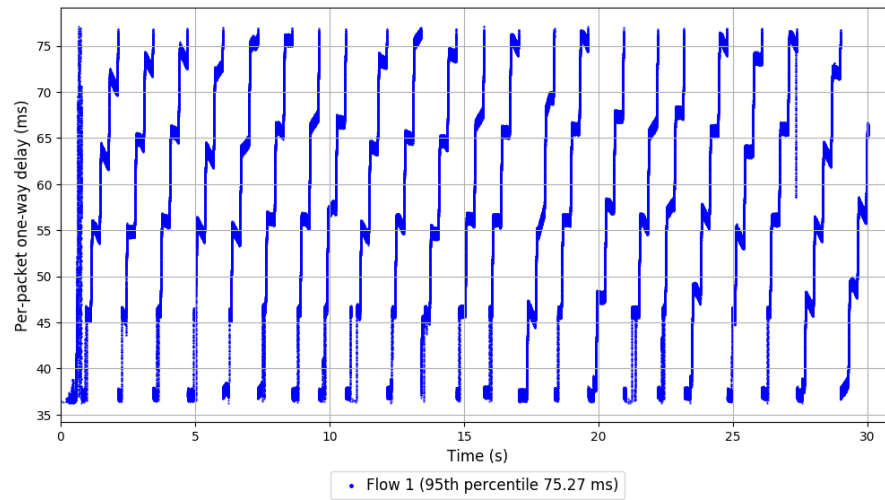
Run 10: Report of FillP — Data Link

Flow 1 ingress (mean 103.12 Mbit/s) ----   Flow 1 egress (mean 95.20 Mbit/s) ———

• Flow 1 (95th percentile 71.94 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2018-07-09 20:04:03
End at: 2018-07-09 20:04:34
Local clock offset: -2.081 ms
Remote clock offset: 5.146 ms


# Below is generated by plot.py at 2018-07-10 00:04:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 75.274 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 75.274 ms
Loss rate: 3.96%
```
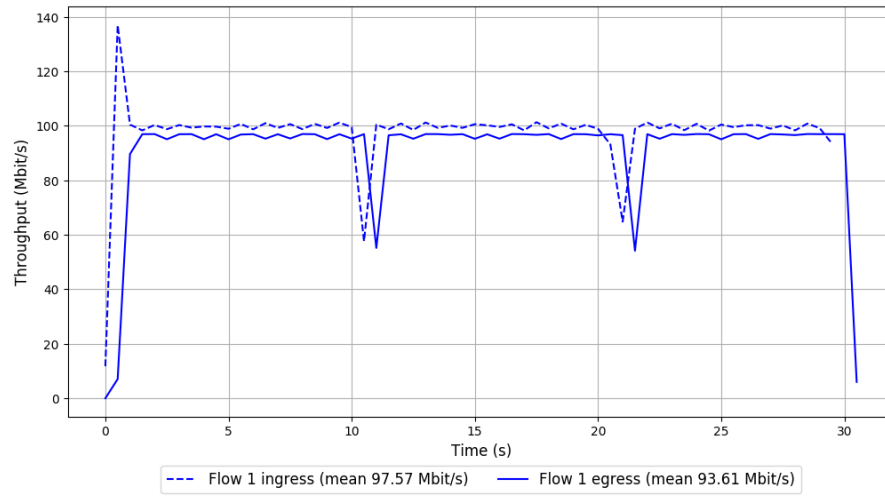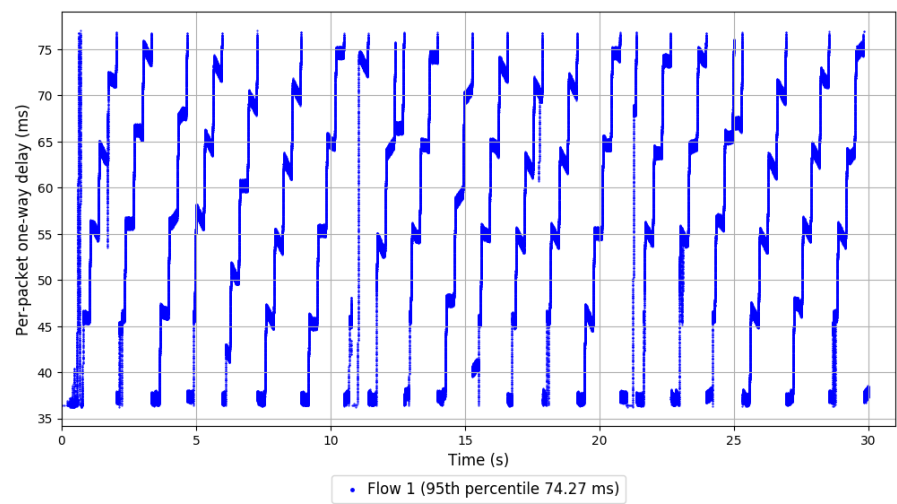
Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 97.57 Mbit/s)   Flow 1 egress (mean 93.61 Mbit/s)

• Flow 1 (95th percentile 75.27 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2018-07-09 20:27:34
End at: 2018-07-09 20:28:04
Local clock offset: -2.26 ms
Remote clock offset: 5.756 ms


# Below is generated by plot.py at 2018-07-10 00:04:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 74.270 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 74.270 ms
Loss rate: 3.93%
```
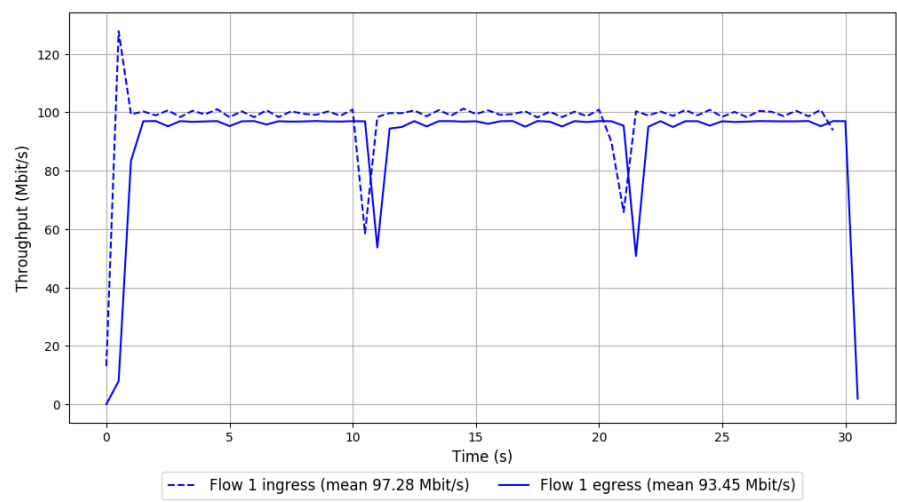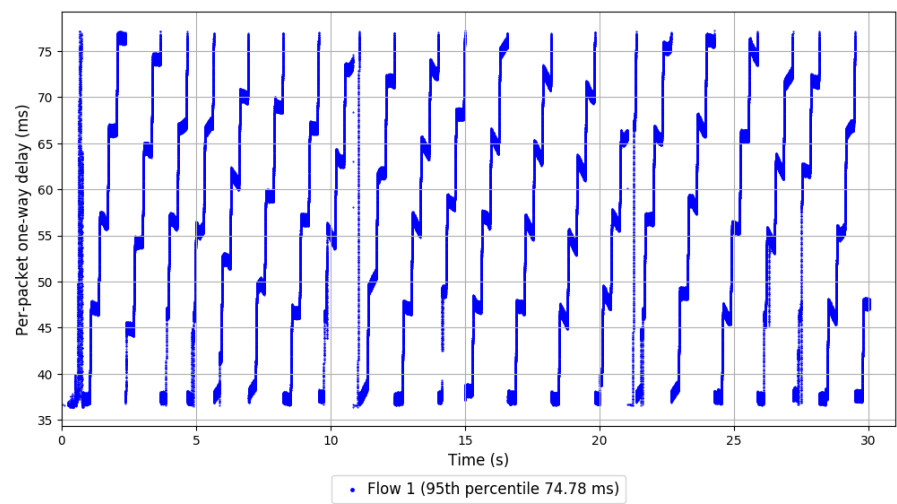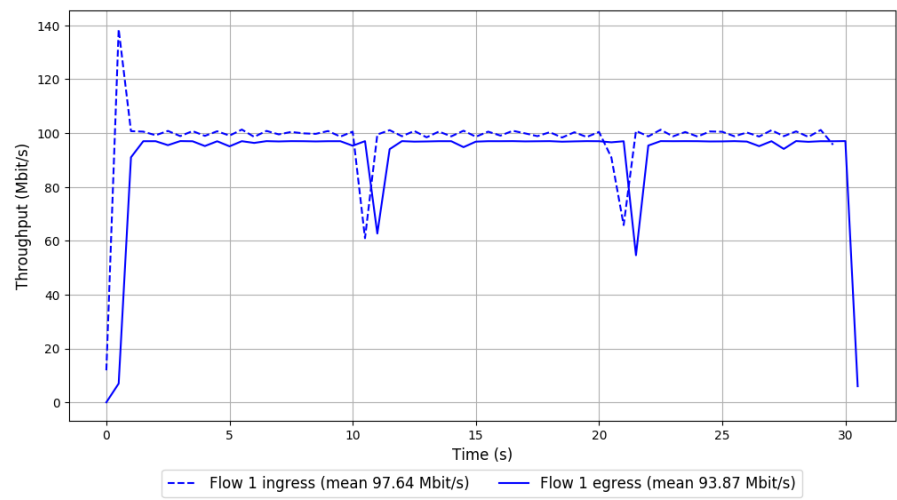
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2018-07-09 20:51:04
End at: 2018-07-09 20:51:34
Local clock offset: -3.096 ms
Remote clock offset: 3.594 ms

# Below is generated by plot.py at 2018-07-10 00:04:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 74.777 ms
Loss rate: 3.83%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 74.777 ms
Loss rate: 3.83%
```

Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 97.64 Mbit/s) --- Flow 1 egress (mean 93.87 Mbit/s)
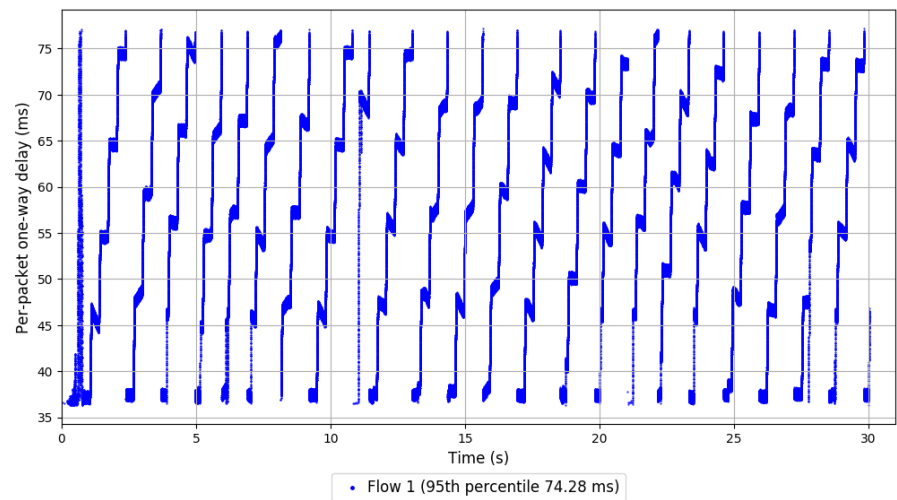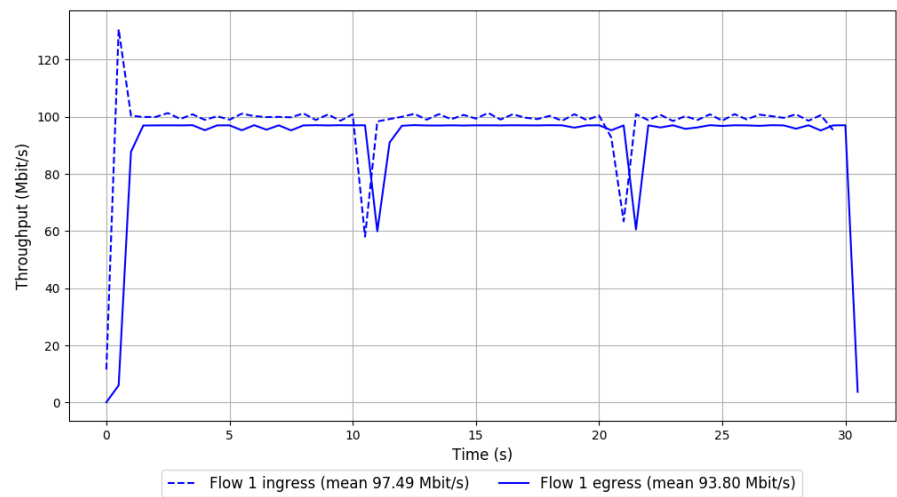

• Flow 1 (95th percentile 74.78 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2018-07-09 21:14:06
End at: 2018-07-09 21:14:36
Local clock offset: -1.785 ms
Remote clock offset: 3.478 ms


# Below is generated by plot.py at 2018-07-10 00:04:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 74.276 ms
Loss rate: 3.74%
-- Flow 1:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 74.276 ms
Loss rate: 3.74%
```
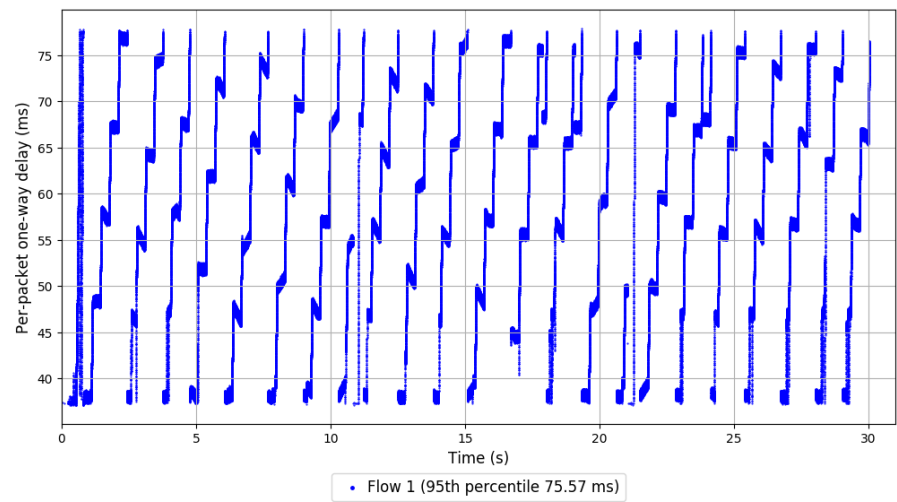
Run 4: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 97.49 Mbit/s)   Flow 1 egress (mean 93.80 Mbit/s)

Flow 1 (95th percentile 74.28 ms)

```
Run 5: Statistics of FillP-Sheep

Start at: 2018-07-09 21:37:08
End at: 2018-07-09 21:37:38
Local clock offset: -0.755 ms
Remote clock offset: 3.623 ms


# Below is generated by plot.py at 2018-07-10 00:04:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 75.566 ms
Loss rate: 4.14%
-- Flow 1:
Average throughput: 93.63 Mbit/s
95th percentile per-packet one-way delay: 75.566 ms
Loss rate: 4.14%
```
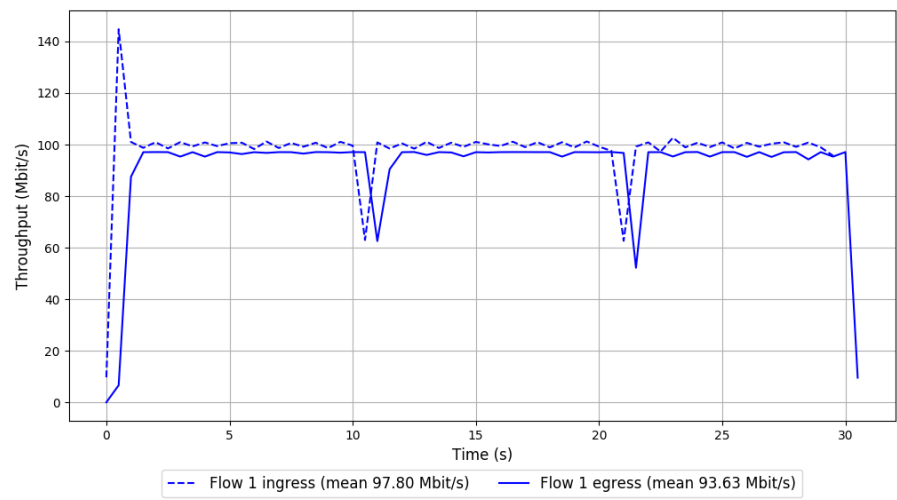
Run 5: Report of FillP-Sheep — Data Link

```
Run 6: Statistics of FillP-Sheep

Start at: 2018-07-09 22:00:41
End at: 2018-07-09 22:01:11
Local clock offset: -0.72 ms
Remote clock offset: 3.872 ms


# Below is generated by plot.py at 2018-07-10 00:04:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 74.764 ms
Loss rate: 3.95%
-- Flow 1:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 74.764 ms
Loss rate: 3.95%
```
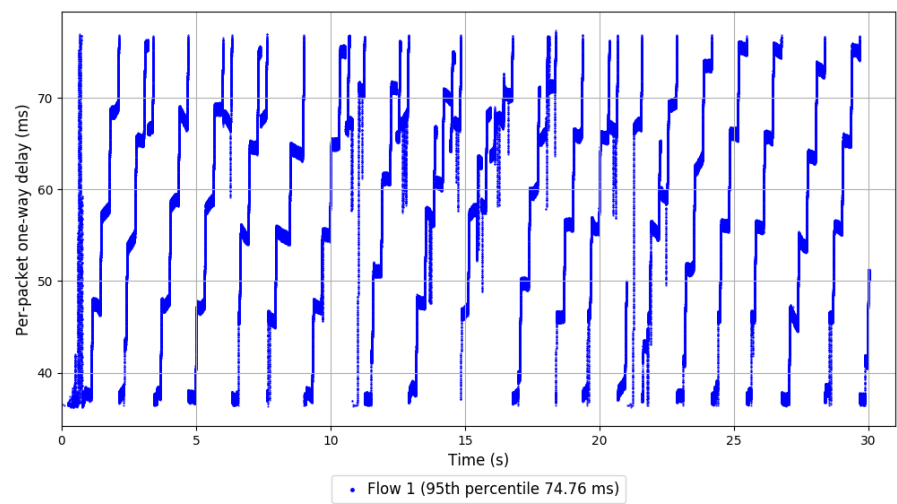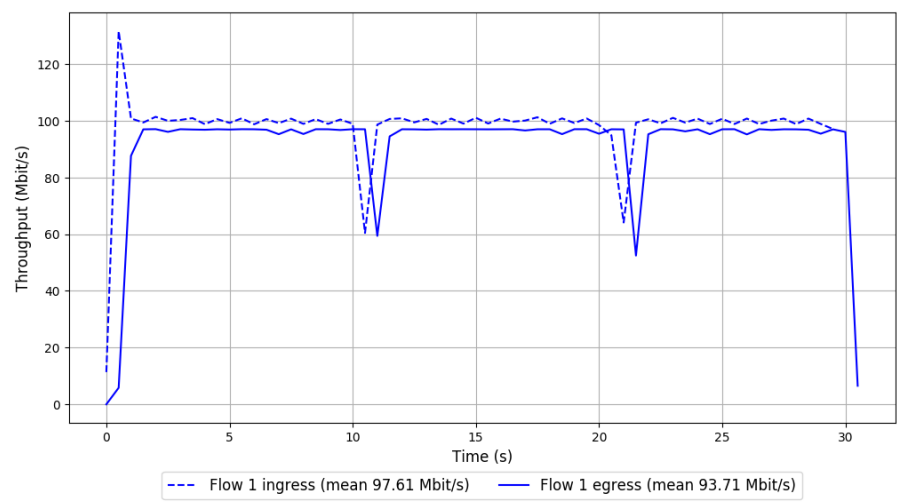
Run 6: Report of FillP-Sheep — Data Link

```
Run 7: Statistics of FillP-Sheep

Start at: 2018-07-09 22:23:47
End at: 2018-07-09 22:24:17
Local clock offset: -1.154 ms
Remote clock offset: 3.958 ms


# Below is generated by plot.py at 2018-07-10 00:05:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 75.548 ms
Loss rate: 4.10%
-- Flow 1:
Average throughput: 93.53 Mbit/s
95th percentile per-packet one-way delay: 75.548 ms
Loss rate: 4.10%
```
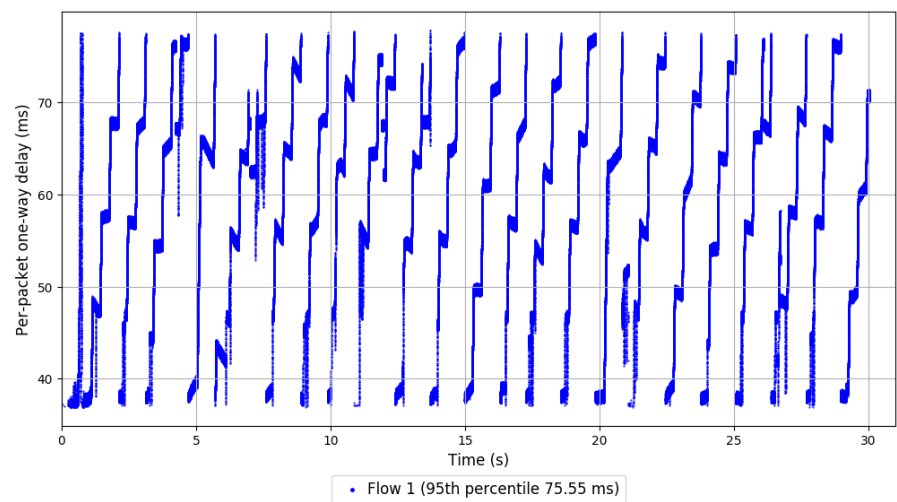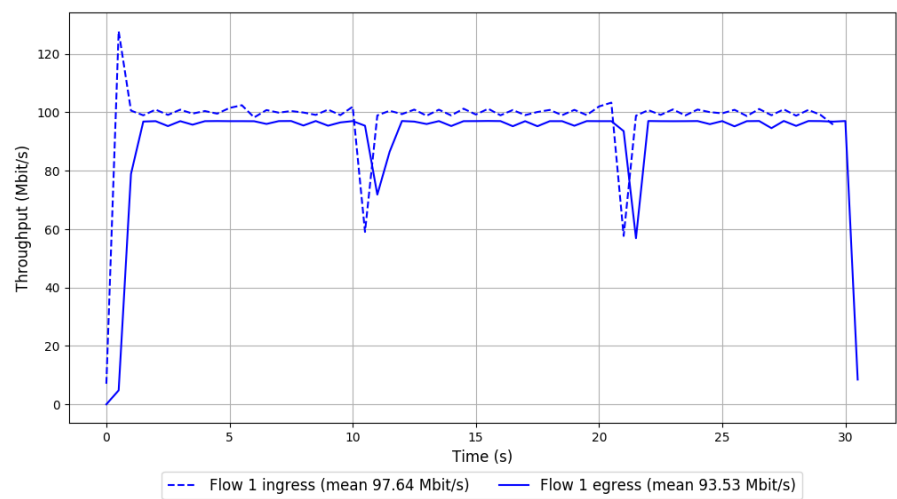
Run 7: Report of FillP-Sheep — Data Link

```
Run 8: Statistics of FillP-Sheep

Start at: 2018-07-09 22:47:48
End at: 2018-07-09 22:48:18
Local clock offset: -1.473 ms
Remote clock offset: 3.734 ms


# Below is generated by plot.py at 2018-07-10 00:05:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 74.673 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 74.673 ms
Loss rate: 4.51%
```
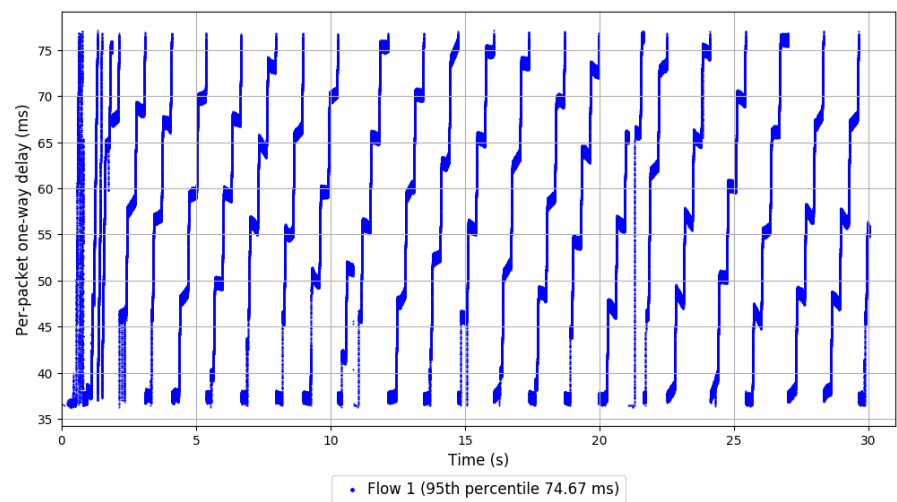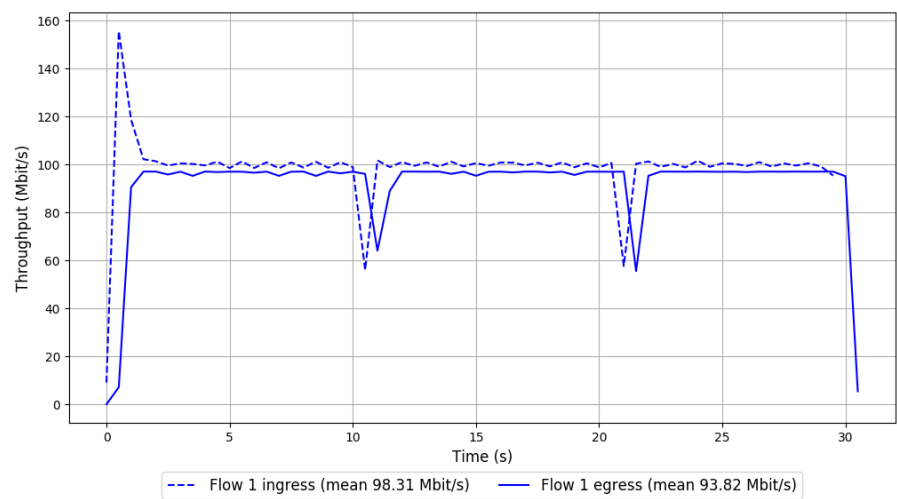
Run 8: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 98.31 Mbit/s) — Flow 1 egress (mean 93.82 Mbit/s)

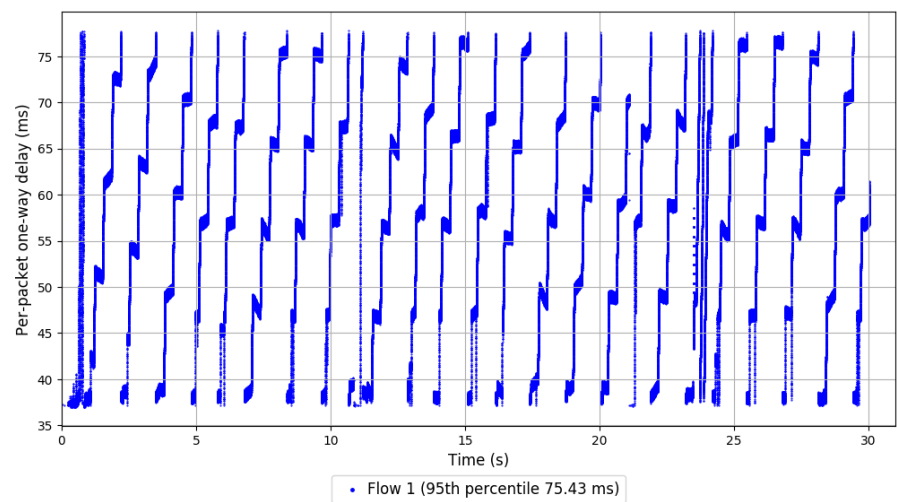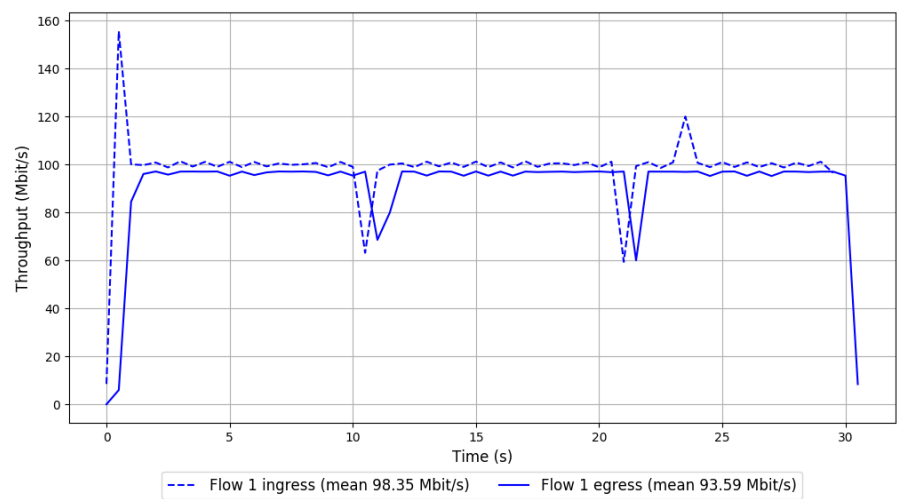

Flow 1 (95th percentile 74.67 ms)

```
Run 9: Statistics of FillP-Sheep

Start at: 2018-07-09 23:12:03
End at: 2018-07-09 23:12:33
Local clock offset: -1.675 ms
Remote clock offset: 3.252 ms


# Below is generated by plot.py at 2018-07-10 00:05:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 75.432 ms
Loss rate: 4.76%
-- Flow 1:
Average throughput: 93.59 Mbit/s
95th percentile per-packet one-way delay: 75.432 ms
Loss rate: 4.76%
```

Run 9: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 98.35 Mbit/s)   Flow 1 egress (mean 93.59 Mbit/s)

Flow 1 (95th percentile 75.43 ms)

```
Run 10: Statistics of FillP-Sheep

Start at: 2018-07-09 23:36:46
End at: 2018-07-09 23:37:16
Local clock offset: -1.676 ms
Remote clock offset: 3.687 ms


# Below is generated by plot.py at 2018-07-10 00:05:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 74.904 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 93.60 Mbit/s
95th percentile per-packet one-way delay: 74.904 ms
Loss rate: 4.07%
```
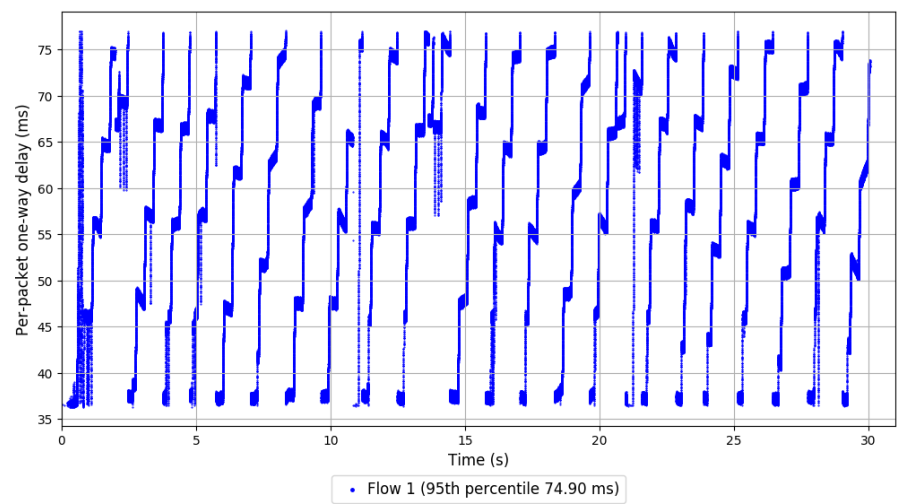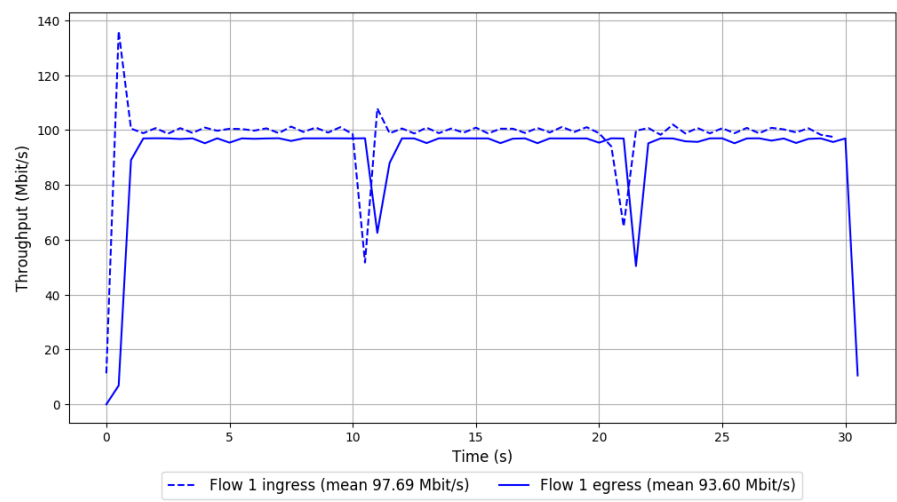
Run 10: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 97.69 Mbit/s) --- Flow 1 egress (mean 93.60 Mbit/s)
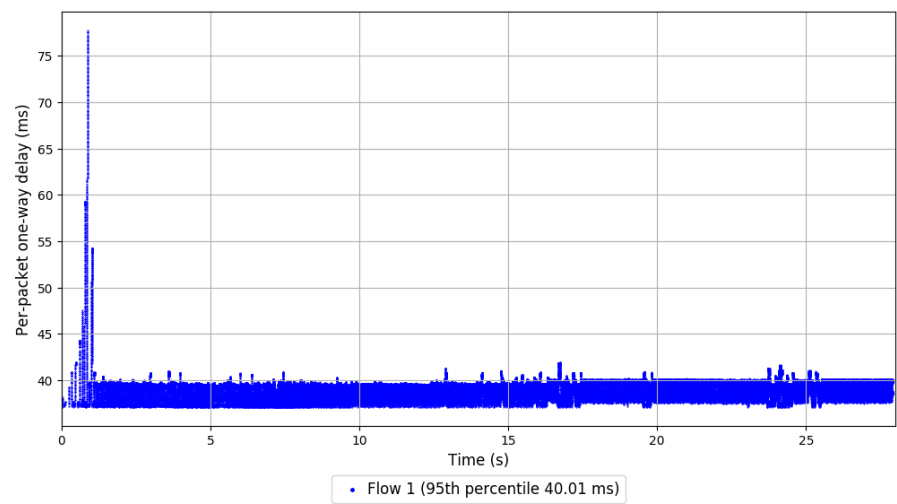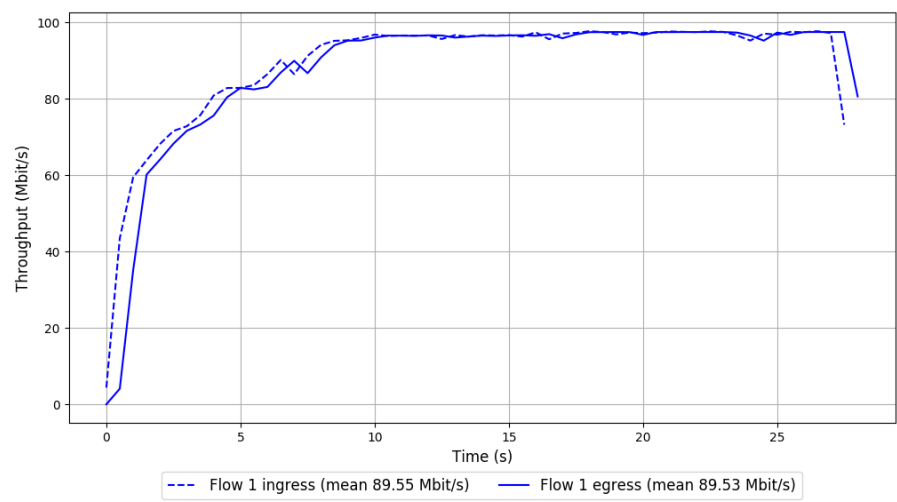

Flow 1 (95th percentile 74.90 ms)

```
Run 1: Statistics of Indigo

Start at: 2018-07-09 19:57:24
End at: 2018-07-09 19:57:54
Local clock offset: -1.905 ms
Remote clock offset: 5.076 ms


# Below is generated by plot.py at 2018-07-10 00:05:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.53 Mbit/s
95th percentile per-packet one-way delay: 40.013 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 89.53 Mbit/s
95th percentile per-packet one-way delay: 40.013 ms
Loss rate: 0.03%
```

Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2018-07-09 20:20:17
End at: 2018-07-09 20:20:47
Local clock offset: -2.076 ms
Remote clock offset: 5.563 ms

# Below is generated by plot.py at 2018-07-10 00:05:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 41.050 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 94.78 Mbit/s
95th percentile per-packet one-way delay: 41.050 ms
Loss rate: 0.12%
```
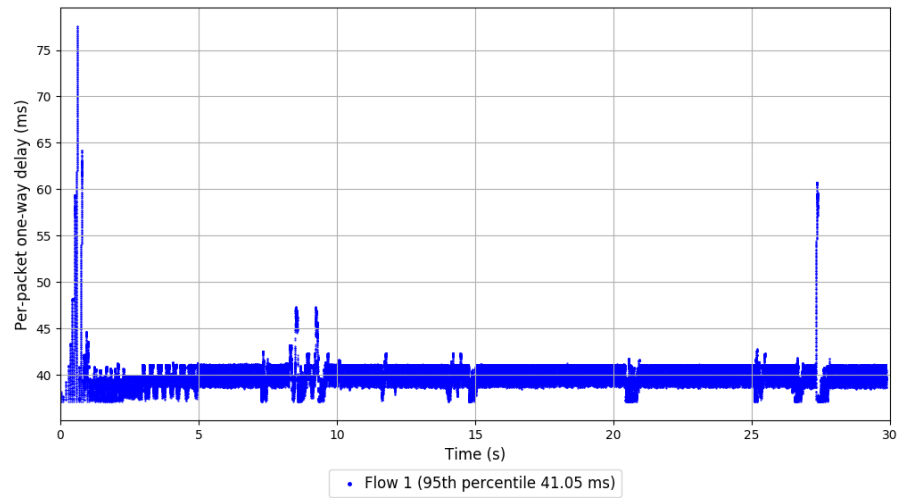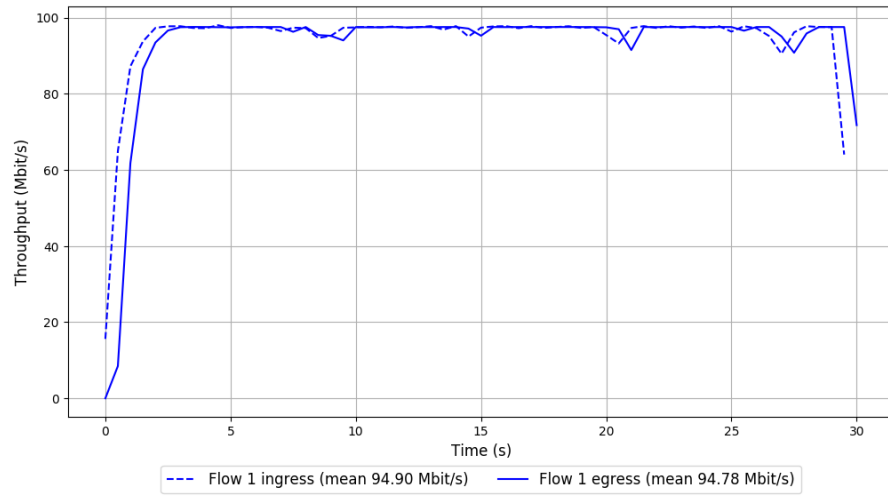
Run 2: Report of Indigo — Data Link

Flow 1 ingress (mean 94.90 Mbit/s) — Flow 1 egress (mean 94.78 Mbit/s)

• Flow 1 (95th percentile 41.05 ms)

```
Run 3: Statistics of Indigo

Start at: 2018-07-09 20:44:24
End at: 2018-07-09 20:44:54
Local clock offset: -3.196 ms
Remote clock offset: 3.893 ms


# Below is generated by plot.py at 2018-07-10 00:05:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 40.977 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 40.977 ms
Loss rate: 0.02%
```
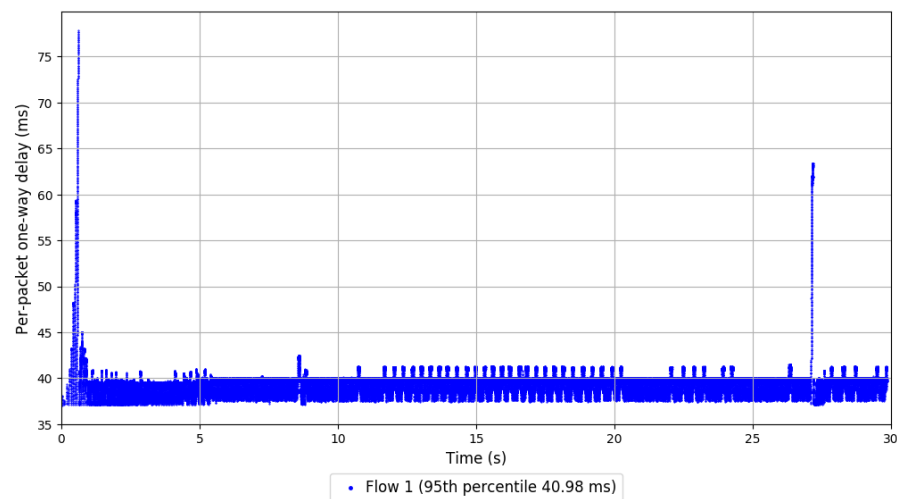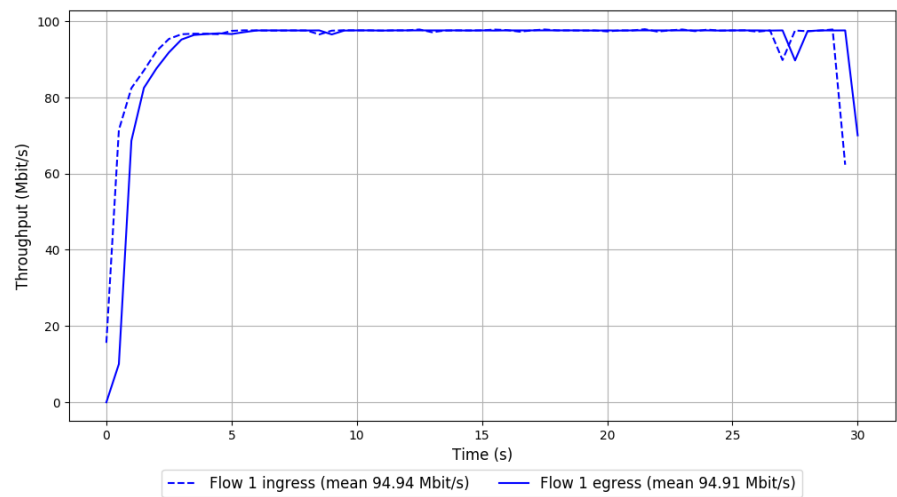
Run 3: Report of Indigo — Data Link

Flow 1 ingress (mean 94.94 Mbit/s)   Flow 1 egress (mean 94.91 Mbit/s)

Flow 1 (95th percentile 40.98 ms)

```
Run 4: Statistics of Indigo

Start at: 2018-07-09 21:07:13
End at: 2018-07-09 21:07:43
Local clock offset: -2.203 ms
Remote clock offset: 3.293 ms


# Below is generated by plot.py at 2018-07-10 00:06:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 41.098 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.09 Mbit/s
95th percentile per-packet one-way delay: 41.098 ms
Loss rate: 0.01%
```
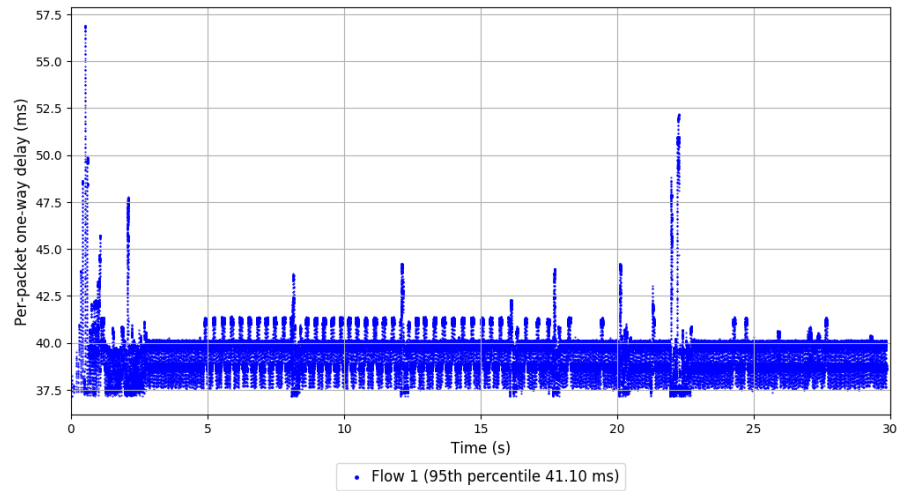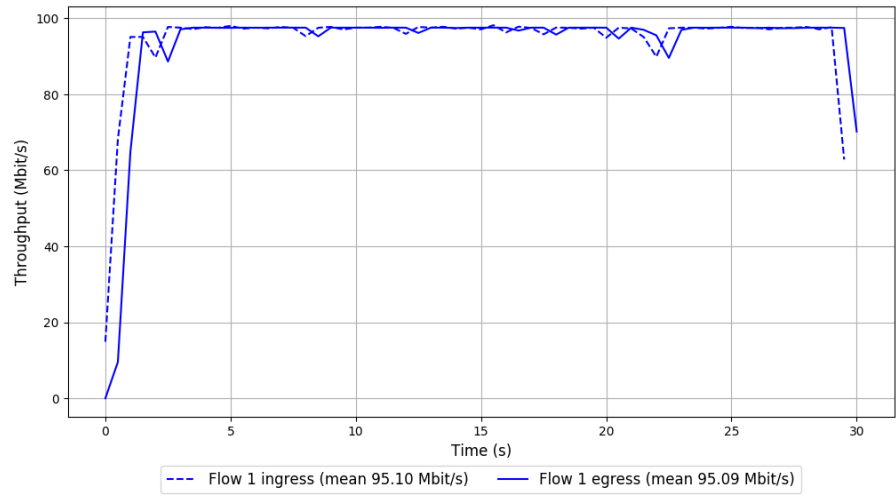
Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2018-07-09 21:30:16
End at: 2018-07-09 21:30:46
Local clock offset: -0.91 ms
Remote clock offset: 3.52 ms


# Below is generated by plot.py at 2018-07-10 00:06:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 41.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.44 Mbit/s
95th percentile per-packet one-way delay: 41.180 ms
Loss rate: 0.00%
```
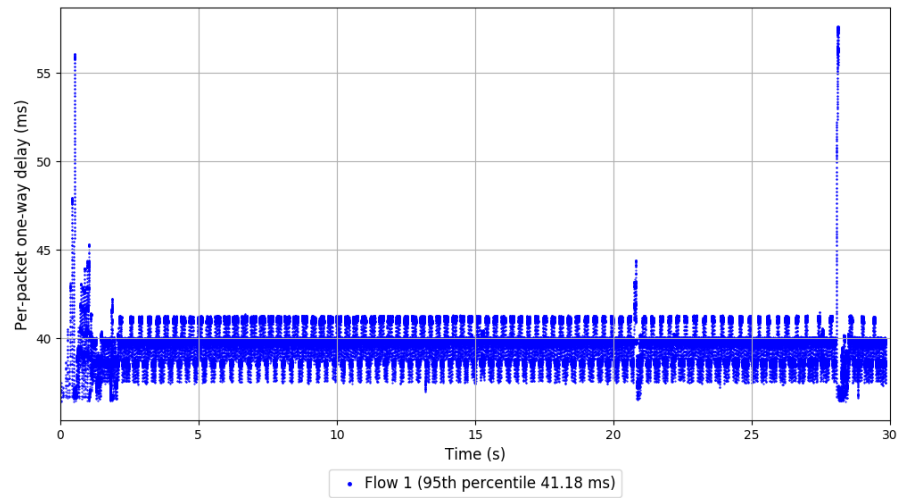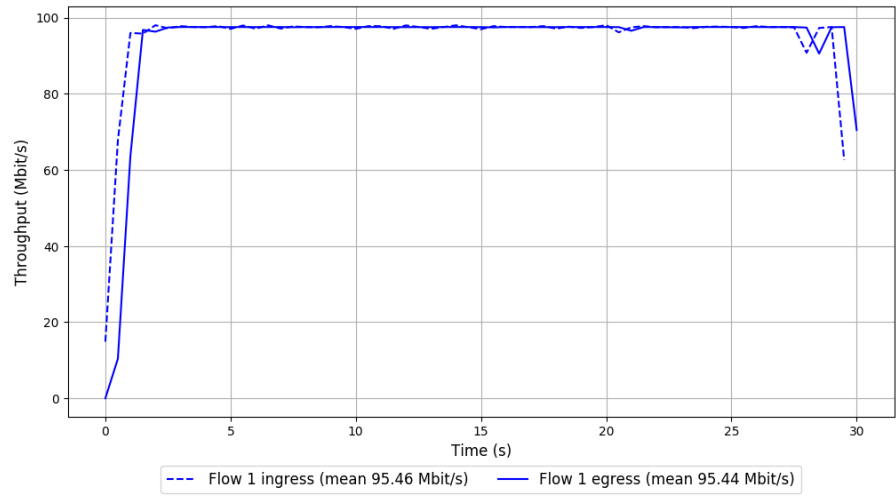
Run 5: Report of Indigo — Data Link

```
Run 6: Statistics of Indigo

Start at: 2018-07-09 21:53:35
End at: 2018-07-09 21:54:05
Local clock offset: -0.639 ms
Remote clock offset: 3.837 ms


# Below is generated by plot.py at 2018-07-10 00:06:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.43 Mbit/s
95th percentile per-packet one-way delay: 40.636 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 93.43 Mbit/s
95th percentile per-packet one-way delay: 40.636 ms
Loss rate: 0.15%
```
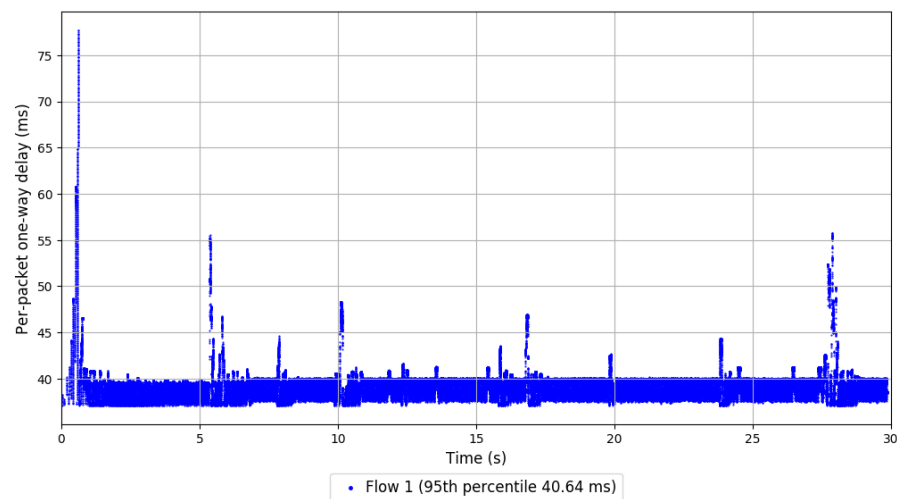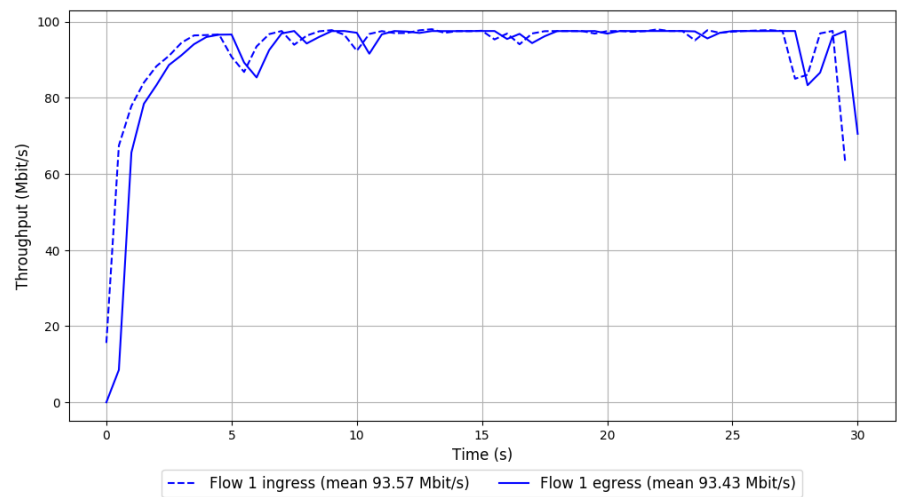
Run 6: Report of Indigo — Data Link

Flow 1 ingress (mean 93.57 Mbit/s)   Flow 1 egress (mean 93.43 Mbit/s)

Flow 1 (95th percentile 40.64 ms)

```
Run 7: Statistics of Indigo

Start at: 2018-07-09 22:17:01
End at: 2018-07-09 22:17:31
Local clock offset: -0.991 ms
Remote clock offset: 3.91 ms


# Below is generated by plot.py at 2018-07-10 00:07:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 40.942 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 40.942 ms
Loss rate: 0.00%
```
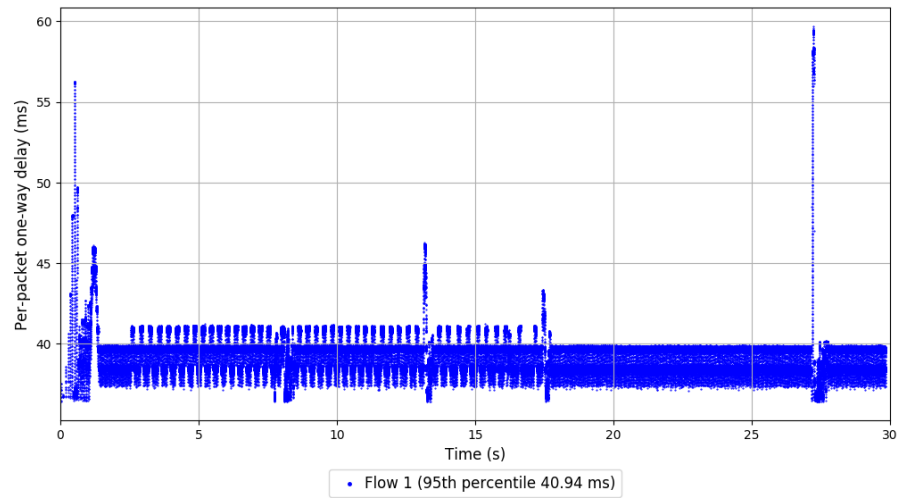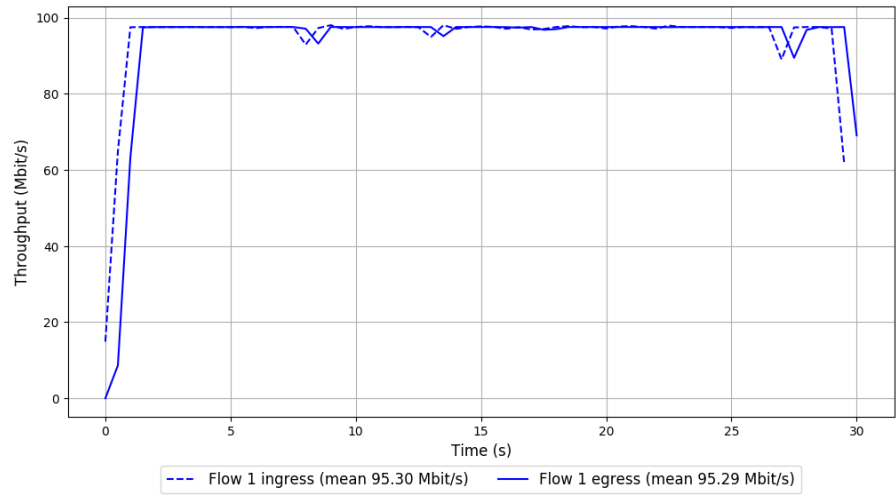
Run 7: Report of Indigo — Data Link

```
Run 8: Statistics of Indigo

Start at: 2018-07-09 22:40:21
End at: 2018-07-09 22:40:51
Local clock offset: -1.447 ms
Remote clock offset: 3.808 ms


# Below is generated by plot.py at 2018-07-10 00:07:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 42.075 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 42.075 ms
Loss rate: 0.00%
```
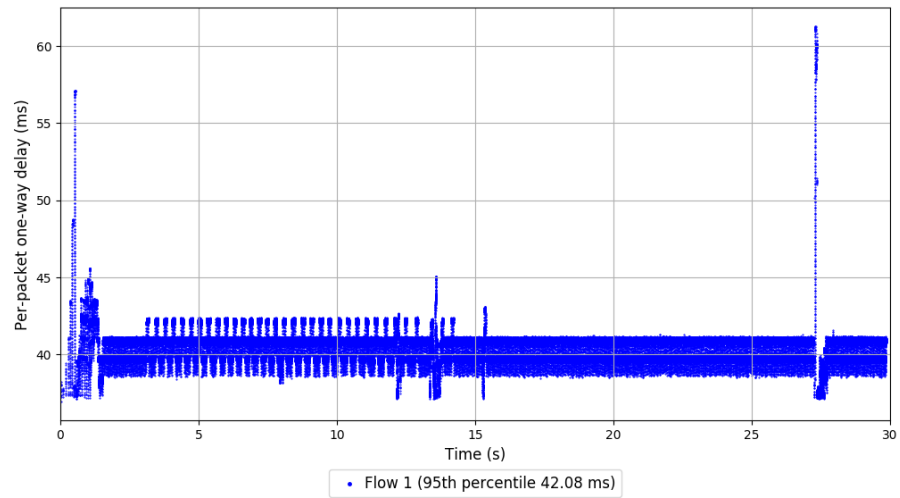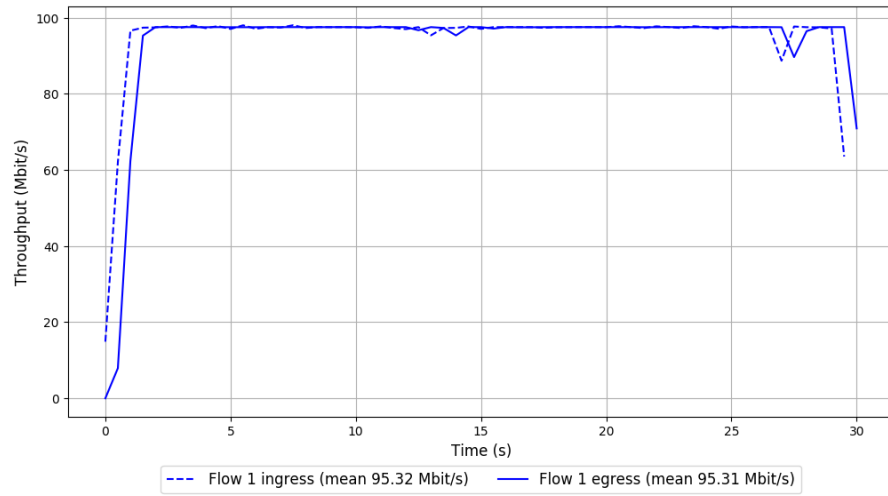
Run 8: Report of Indigo — Data Link

Flow 1 ingress (mean 95.32 Mbit/s)   Flow 1 egress (mean 95.31 Mbit/s)

Flow 1 (95th percentile 42.08 ms)

```
Run 9: Statistics of Indigo

Start at: 2018-07-09 23:04:52
End at: 2018-07-09 23:05:22
Local clock offset: -1.646 ms
Remote clock offset: 3.378 ms


# Below is generated by plot.py at 2018-07-10 00:07:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 41.063 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.82 Mbit/s
95th percentile per-packet one-way delay: 41.063 ms
Loss rate: 0.02%
```
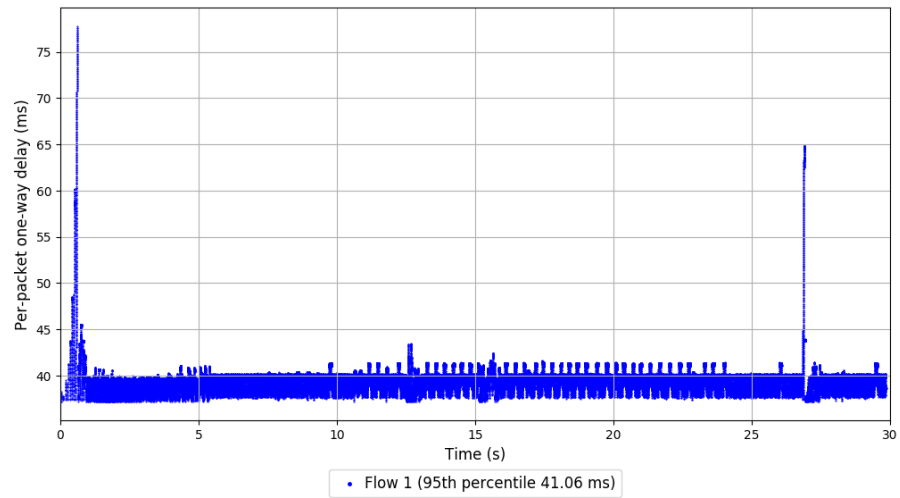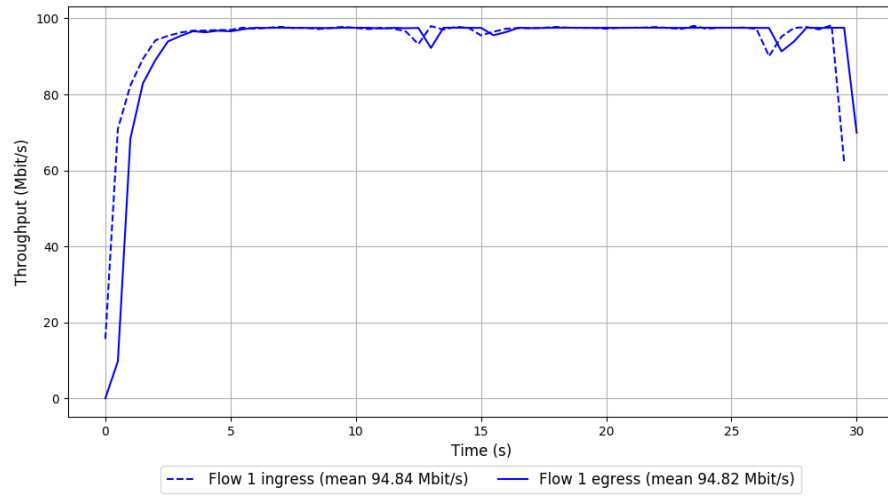
Run 9: Report of Indigo — Data Link

Flow 1 ingress (mean 94.84 Mbit/s) --- Flow 1 egress (mean 94.82 Mbit/s)

• Flow 1 (95th percentile 41.06 ms)

```
Run 10: Statistics of Indigo

Start at: 2018-07-09 23:29:09
End at: 2018-07-09 23:29:39
Local clock offset: -1.656 ms
Remote clock offset: 3.497 ms


# Below is generated by plot.py at 2018-07-10 00:07:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 40.924 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.48 Mbit/s
95th percentile per-packet one-way delay: 40.924 ms
Loss rate: 0.02%
```
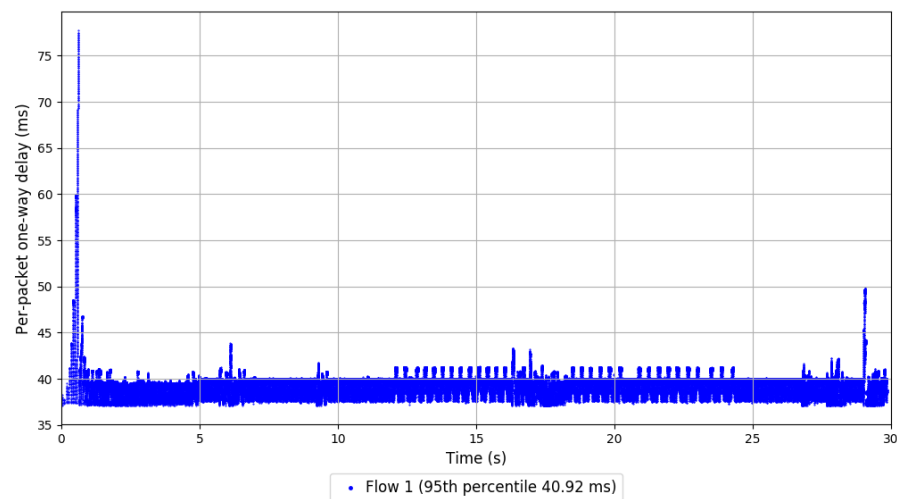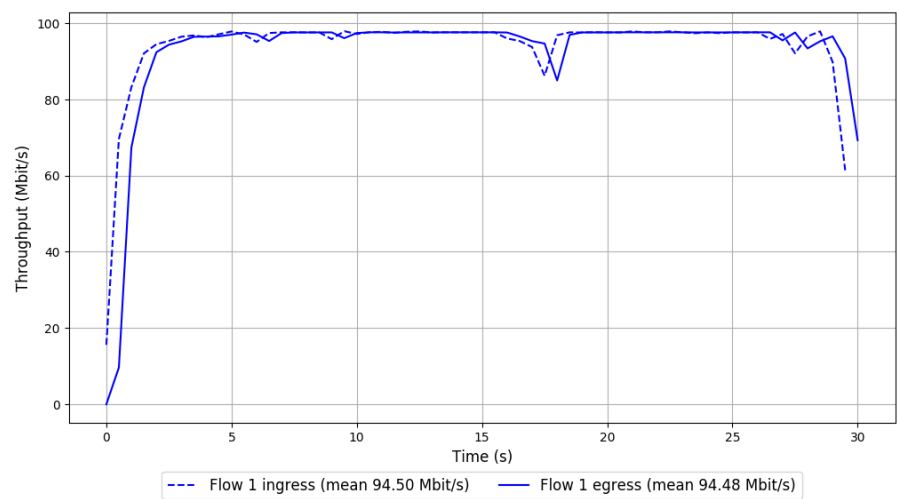
Run 10: Report of Indigo — Data Link

Flow 1 ingress (mean 94.50 Mbit/s)   Flow 1 egress (mean 94.48 Mbit/s)
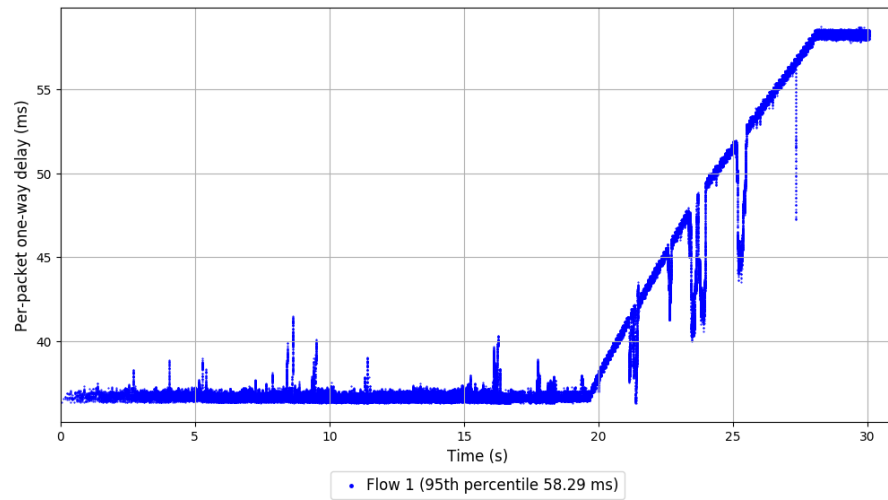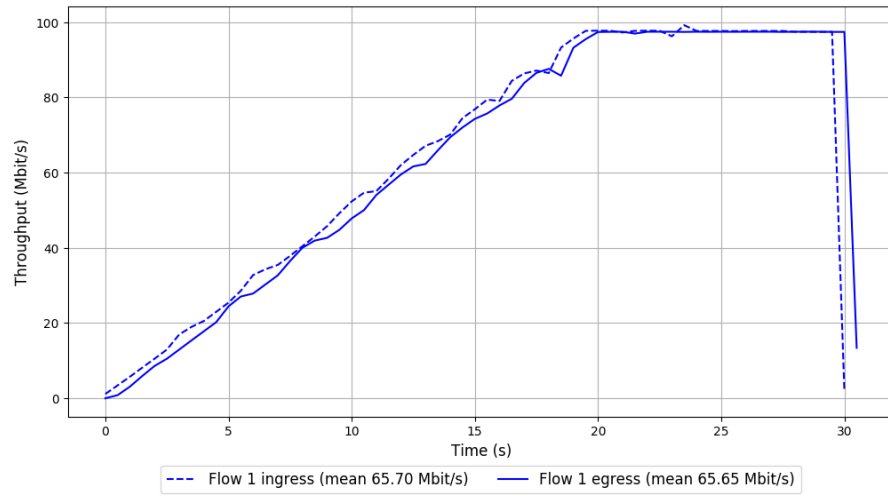

Flow 1 (95th percentile 40.92 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2018-07-09 20:00:05
End at: 2018-07-09 20:00:35
Local clock offset: -2.092 ms
Remote clock offset: 5.053 ms

# Below is generated by plot.py at 2018-07-10 00:07:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.65 Mbit/s
95th percentile per-packet one-way delay: 58.292 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.65 Mbit/s
95th percentile per-packet one-way delay: 58.292 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 65.70 Mbit/s) --- Flow 1 egress (mean 65.65 Mbit/s)

Flow 1 (95th percentile 58.29 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2018-07-09 20:23:14
End at: 2018-07-09 20:23:44
Local clock offset: -2.131 ms
Remote clock offset: 5.697 ms


# Below is generated by plot.py at 2018-07-10 00:07:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.68 Mbit/s
95th percentile per-packet one-way delay: 56.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.68 Mbit/s
95th percentile per-packet one-way delay: 56.998 ms
Loss rate: 0.00%
```
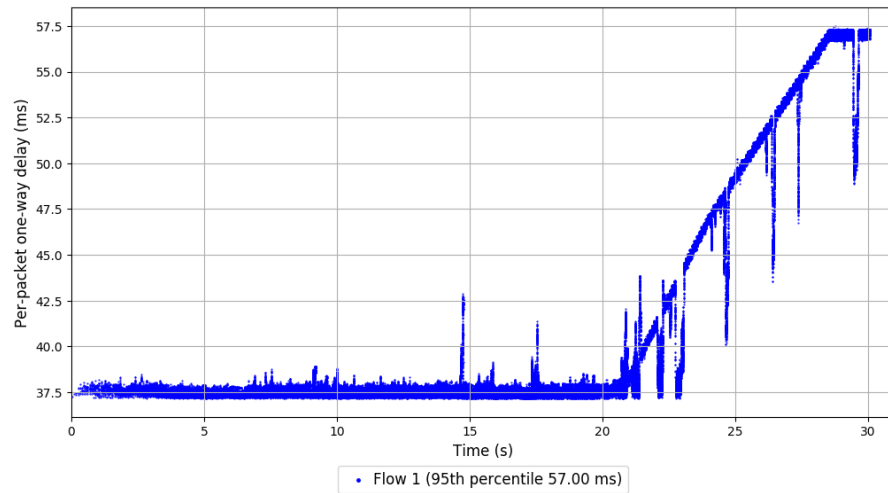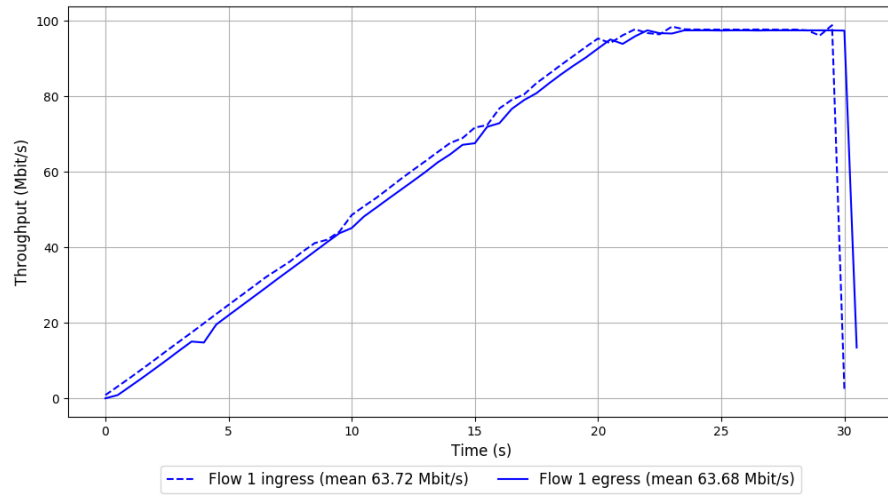
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2018-07-09 20:47:06
End at: 2018-07-09 20:47:36
Local clock offset: -3.361 ms
Remote clock offset: 3.762 ms

# Below is generated by plot.py at 2018-07-10 00:07:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.34 Mbit/s
95th percentile per-packet one-way delay: 39.955 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 57.34 Mbit/s
95th percentile per-packet one-way delay: 39.955 ms
Loss rate: 0.01%
```
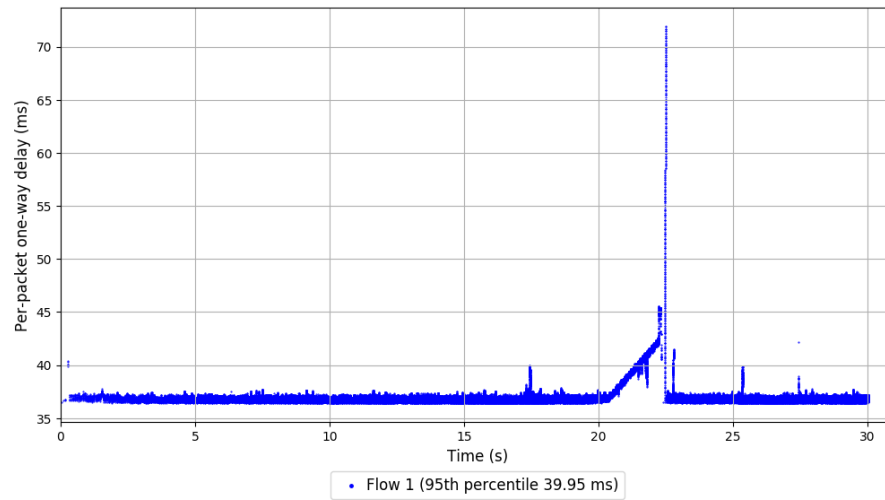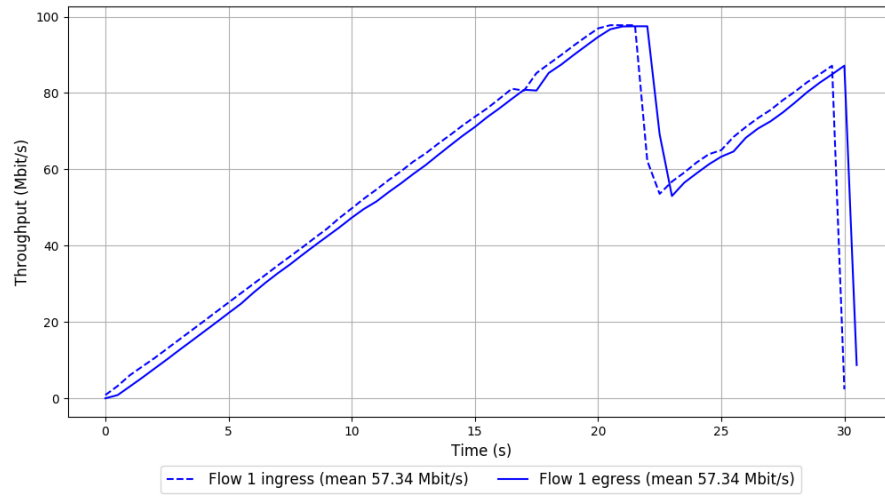
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2018-07-09 21:09:57
End at: 2018-07-09 21:10:27
Local clock offset: -2.255 ms
Remote clock offset: 3.408 ms


# Below is generated by plot.py at 2018-07-10 00:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.73 Mbit/s
95th percentile per-packet one-way delay: 58.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.73 Mbit/s
95th percentile per-packet one-way delay: 58.668 ms
Loss rate: 0.00%
```
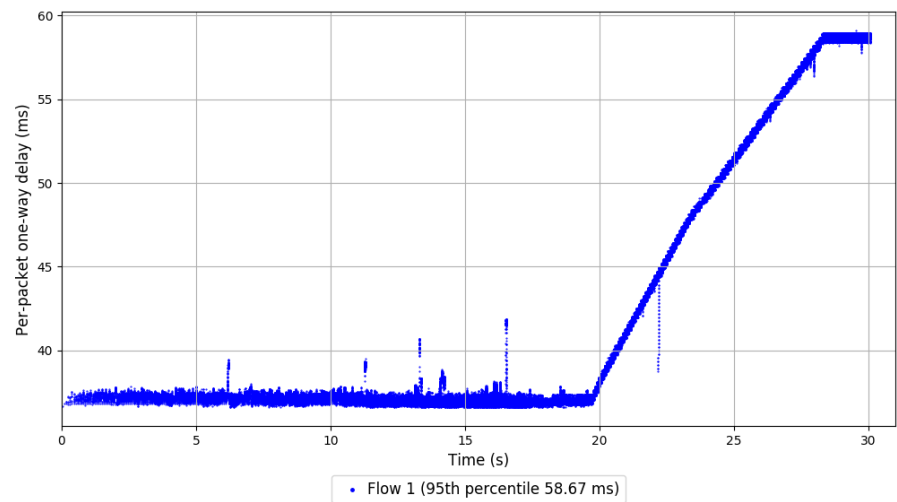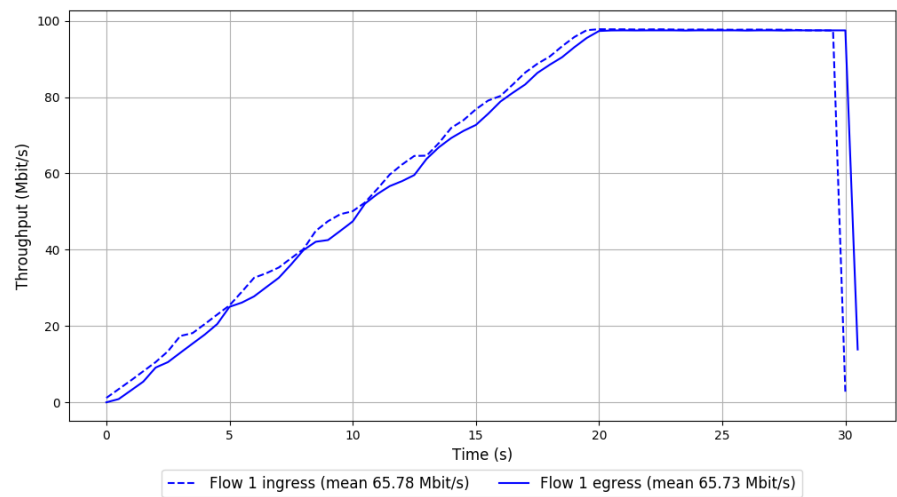
Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 65.78 Mbit/s)   Flow 1 egress (mean 65.73 Mbit/s)

Flow 1 (95th percentile 58.67 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2018-07-09 21:33:01
End at: 2018-07-09 21:33:31
Local clock offset: -0.937 ms
Remote clock offset: 3.638 ms

# Below is generated by plot.py at 2018-07-10 00:07:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.97 Mbit/s
95th percentile per-packet one-way delay: 58.610 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.97 Mbit/s
95th percentile per-packet one-way delay: 58.610 ms
Loss rate: 0.00%
```
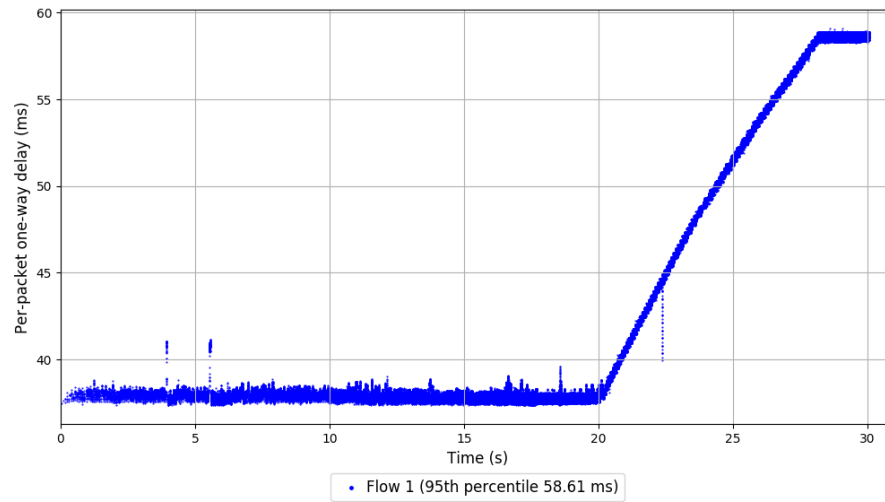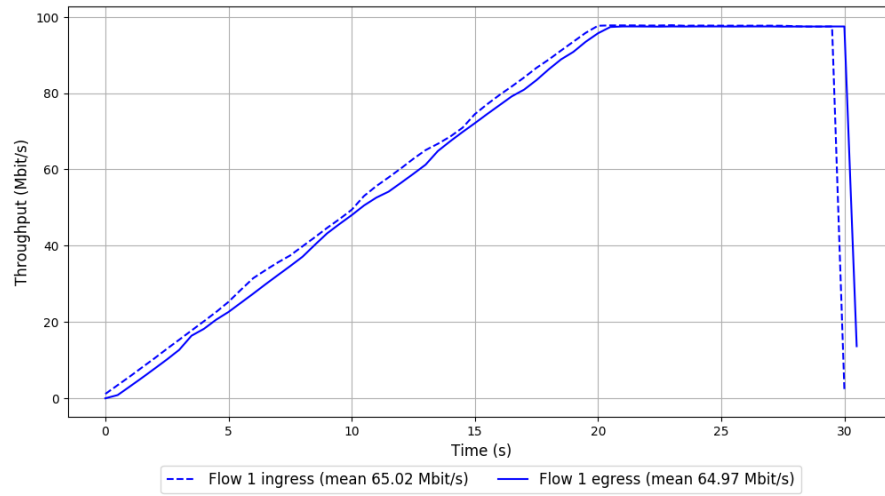
Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 65.02 Mbit/s) —— Flow 1 egress (mean 64.97 Mbit/s)

• Flow 1 (95th percentile 58.61 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2018-07-09 21:56:30
End at: 2018-07-09 21:57:00
Local clock offset: -0.668 ms
Remote clock offset: 4.041 ms


# Below is generated by plot.py at 2018-07-10 00:07:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.96 Mbit/s
95th percentile per-packet one-way delay: 41.359 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 46.96 Mbit/s
95th percentile per-packet one-way delay: 41.359 ms
Loss rate: 0.05%
```
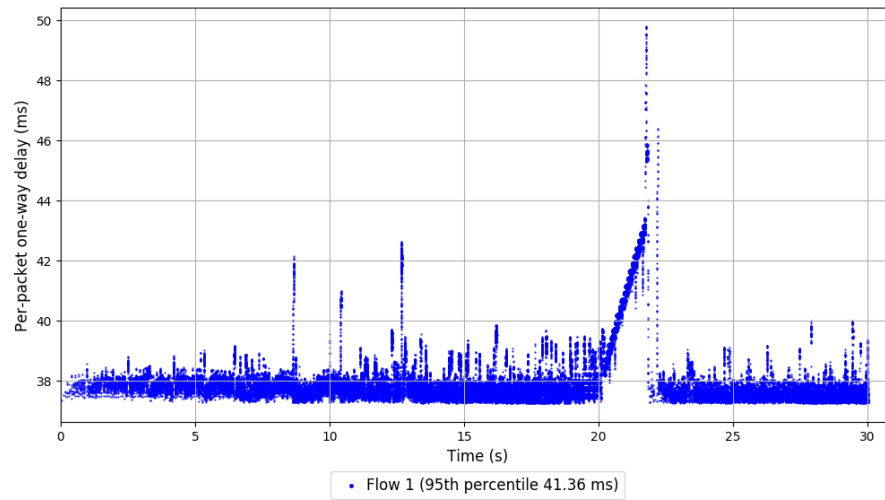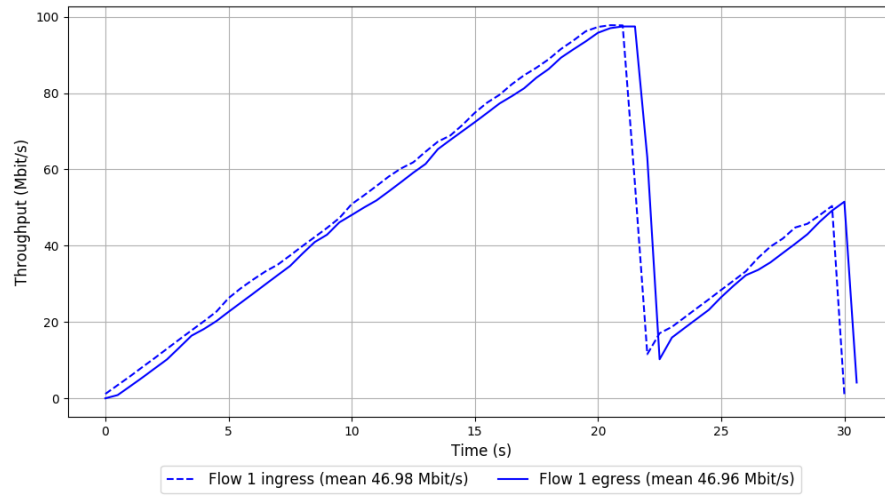
Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 46.98 Mbit/s)   Flow 1 egress (mean 46.96 Mbit/s)

Flow 1 (95th percentile 41.36 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2018-07-09 22:19:42
End at: 2018-07-09 22:20:12
Local clock offset: -1.039 ms
Remote clock offset: 3.948 ms


# Below is generated by plot.py at 2018-07-10 00:07:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.90 Mbit/s
95th percentile per-packet one-way delay: 58.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.90 Mbit/s
95th percentile per-packet one-way delay: 58.354 ms
Loss rate: 0.00%
```
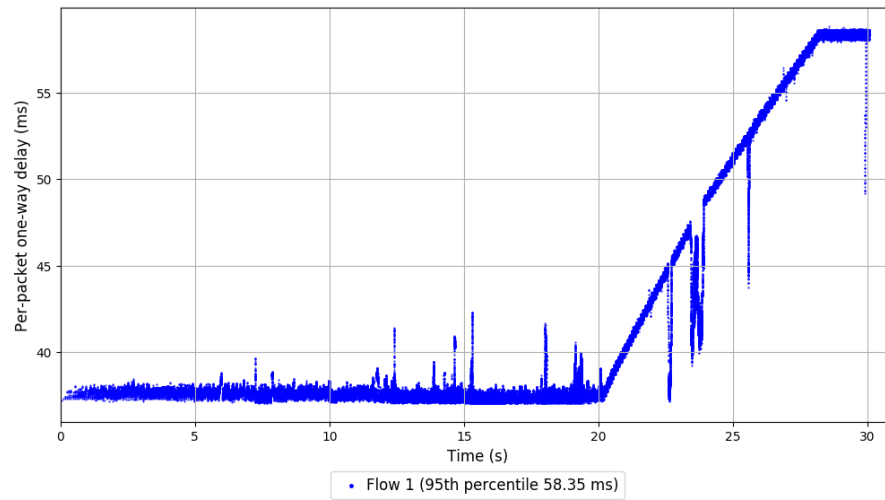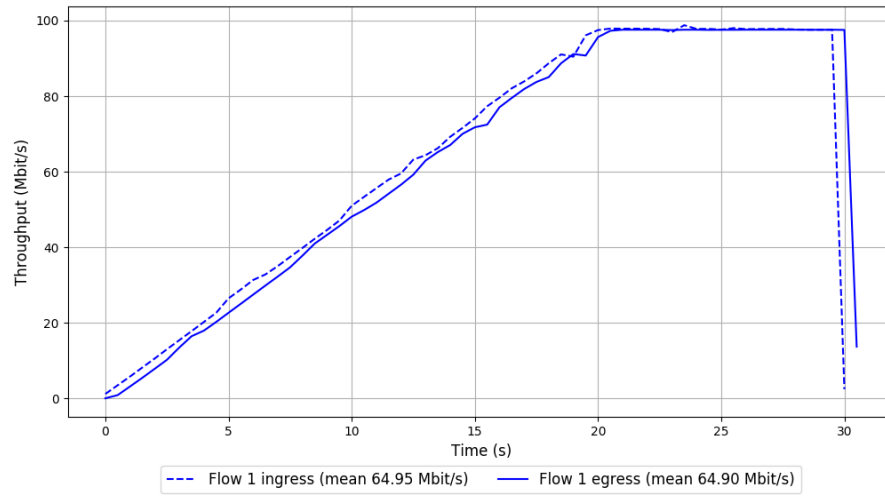
Run 7: Report of LEDBAT — Data Link

```
Run 8: Statistics of LEDBAT

Start at: 2018-07-09 22:43:17
End at: 2018-07-09 22:43:47
Local clock offset: -1.448 ms
Remote clock offset: 3.825 ms


# Below is generated by plot.py at 2018-07-10 00:07:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.32 Mbit/s
95th percentile per-packet one-way delay: 58.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 65.32 Mbit/s
95th percentile per-packet one-way delay: 58.543 ms
Loss rate: 0.00%
```
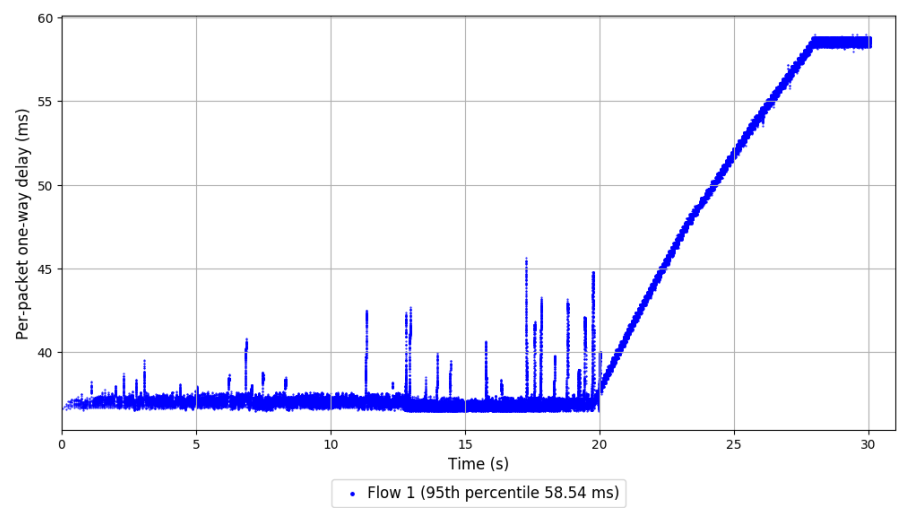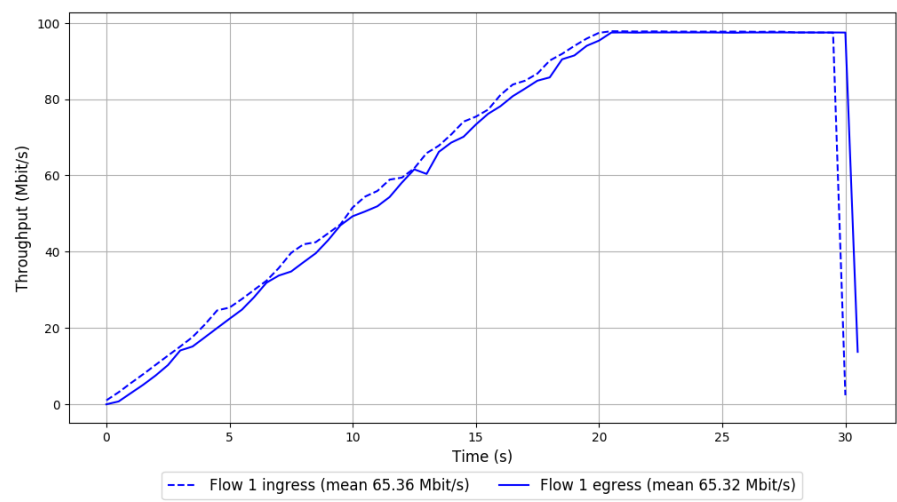
Run 8: Report of LEDBAT — Data Link

```
Run 9: Statistics of LEDBAT

Start at: 2018-07-09 23:07:46
End at: 2018-07-09 23:08:16
Local clock offset: -1.658 ms
Remote clock offset: 3.24 ms


# Below is generated by plot.py at 2018-07-10 00:08:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.60 Mbit/s
95th percentile per-packet one-way delay: 57.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.60 Mbit/s
95th percentile per-packet one-way delay: 57.009 ms
Loss rate: 0.00%
```
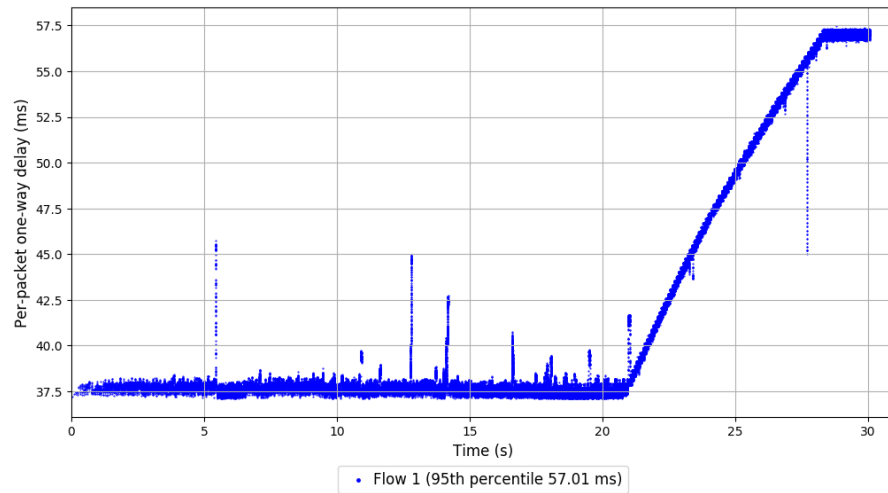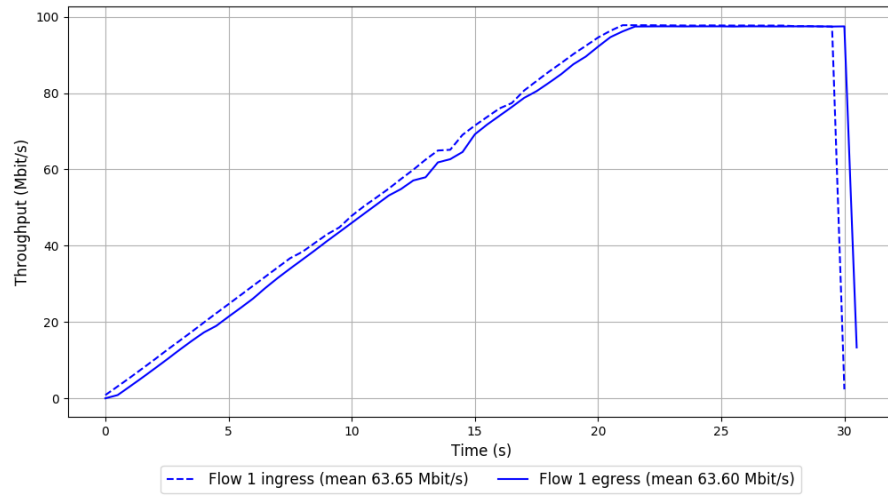
Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 63.65 Mbit/s)   Flow 1 egress (mean 63.60 Mbit/s)

Flow 1 (95th percentile 57.01 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2018-07-09 23:32:24
End at: 2018-07-09 23:32:54
Local clock offset: -1.657 ms
Remote clock offset: 3.574 ms


# Below is generated by plot.py at 2018-07-10 00:08:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.80 Mbit/s
95th percentile per-packet one-way delay: 58.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.80 Mbit/s
95th percentile per-packet one-way delay: 58.400 ms
Loss rate: 0.00%
```
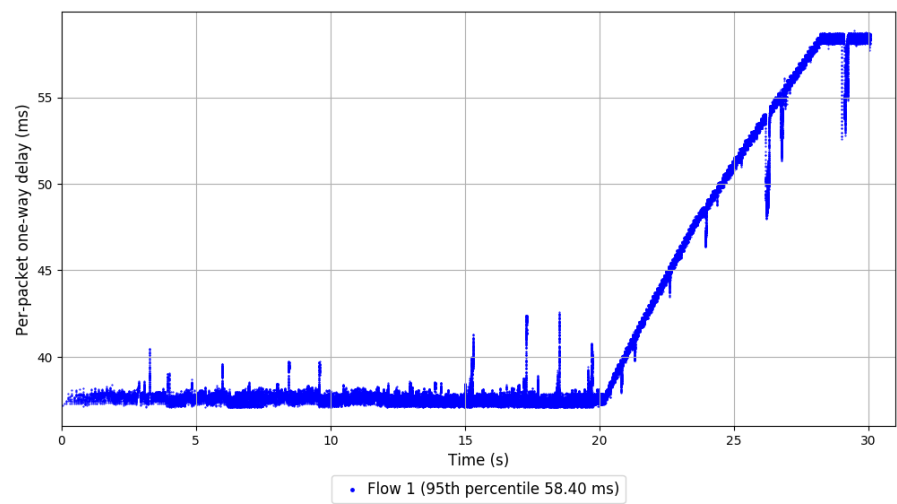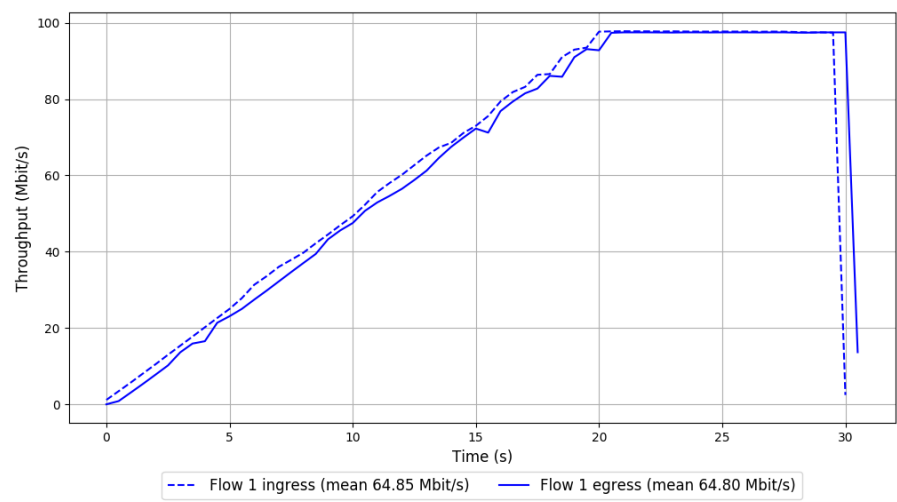
Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 64.85 Mbit/s) Flow 1 egress (mean 64.80 Mbit/s)
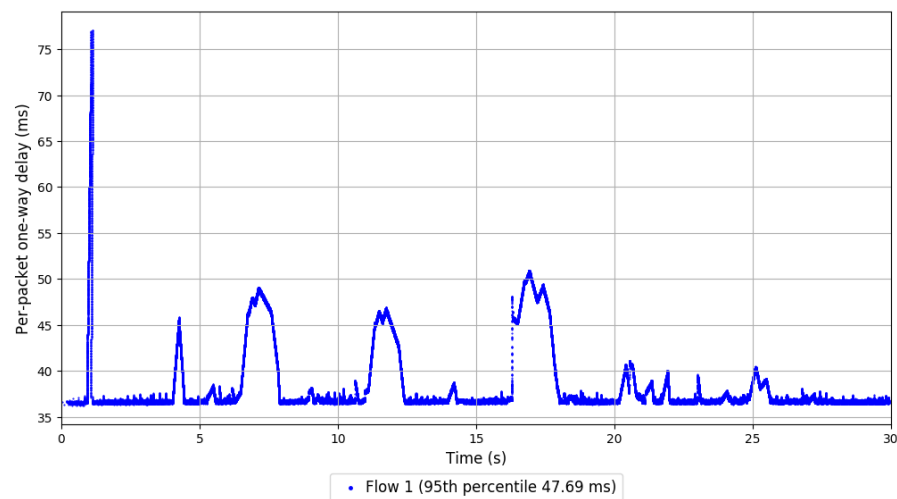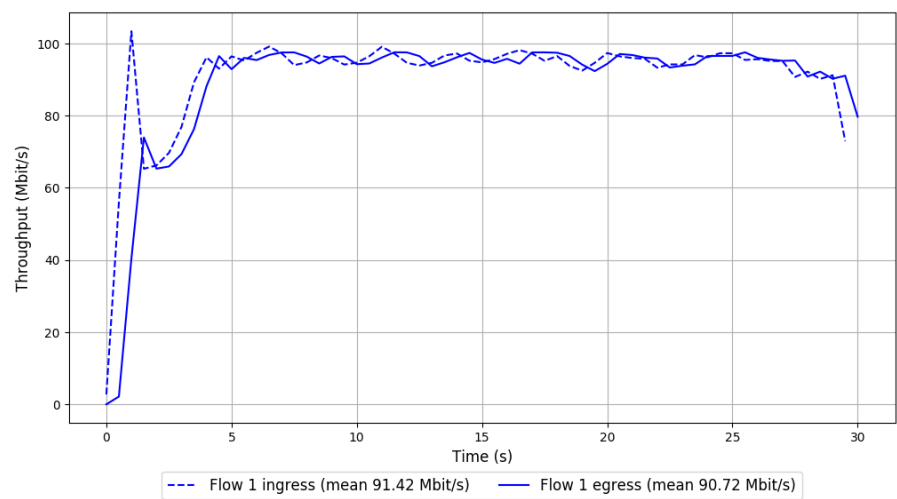

Flow 1 (95th percentile 58.40 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-09 20:16:17
End at: 2018-07-09 20:16:47
Local clock offset: -2.035 ms
Remote clock offset: 5.495 ms

# Below is generated by plot.py at 2018-07-10 00:08:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.72 Mbit/s
95th percentile per-packet one-way delay: 47.693 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 90.72 Mbit/s
95th percentile per-packet one-way delay: 47.693 ms
Loss rate: 0.76%
```

Run 1: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.42 Mbit/s)   Flow 1 egress (mean 90.72 Mbit/s)

• Flow 1 (95th percentile 47.69 ms)

```
Run 2: Statistics of PCC-Allegro

Start at: 2018-07-09 20:40:20
End at: 2018-07-09 20:40:50
Local clock offset: -2.915 ms
Remote clock offset: 4.229 ms


# Below is generated by plot.py at 2018-07-10 00:08:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.37 Mbit/s
95th percentile per-packet one-way delay: 42.585 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 75.37 Mbit/s
95th percentile per-packet one-way delay: 42.585 ms
Loss rate: 0.03%
```
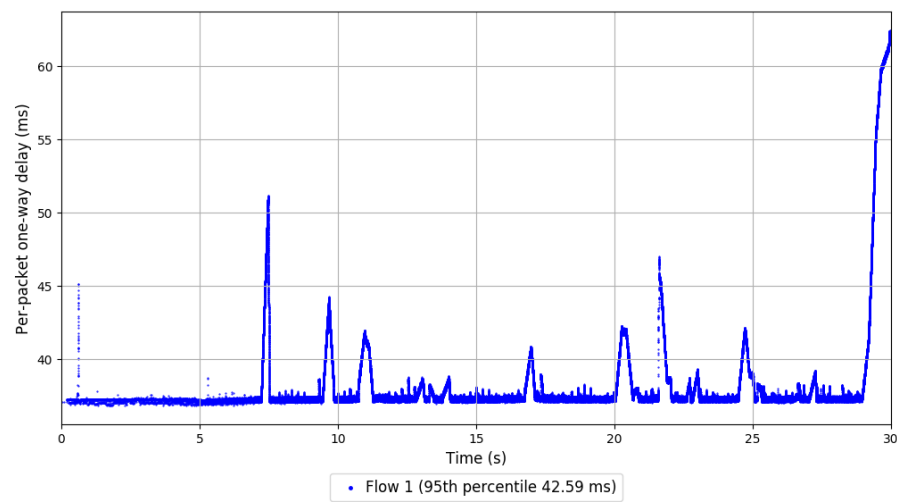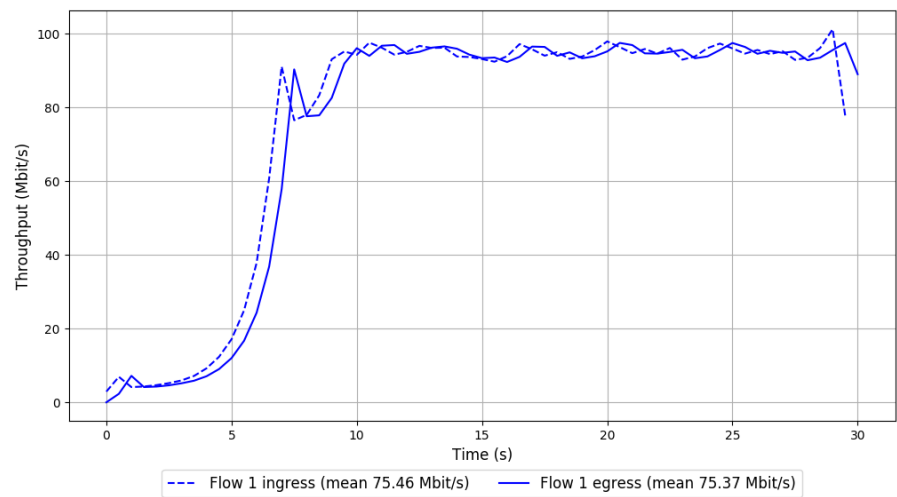
Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 75.46 Mbit/s)   Flow 1 egress (mean 75.37 Mbit/s)

Flow 1 (95th percentile 42.59 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2018-07-09 21:03:21
End at: 2018-07-09 21:03:51
Local clock offset: -2.305 ms
Remote clock offset: 3.181 ms


# Below is generated by plot.py at 2018-07-10 00:08:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 41.656 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 41.656 ms
Loss rate: 0.79%
```
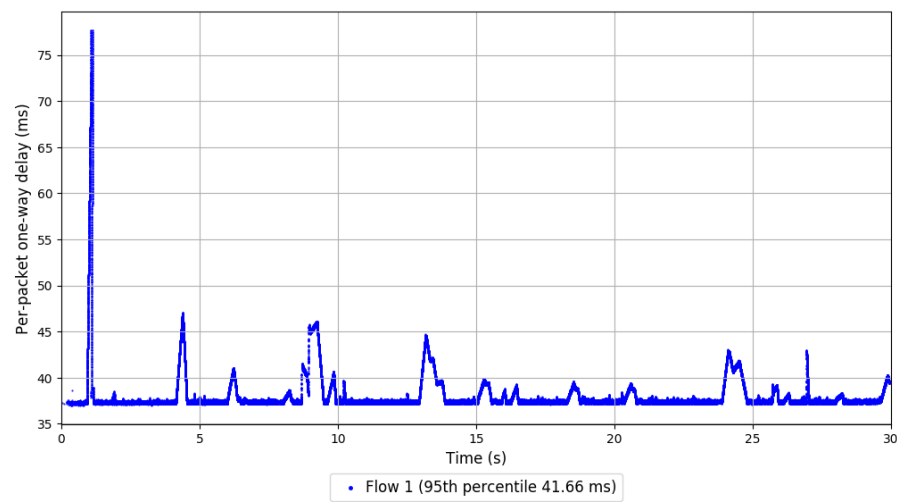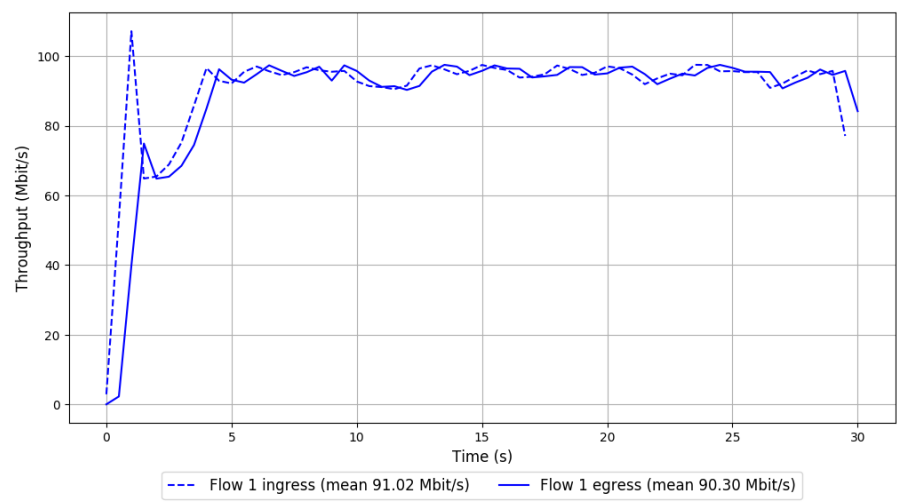
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.02 Mbit/s) — Flow 1 egress (mean 90.30 Mbit/s)

Flow 1 (95th percentile 41.66 ms)

149

```
Run 4: Statistics of PCC-Allegro

Start at: 2018-07-09 21:26:17
End at: 2018-07-09 21:26:47
Local clock offset: -1.084 ms
Remote clock offset: 3.615 ms


# Below is generated by plot.py at 2018-07-10 00:09:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 43.046 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 90.83 Mbit/s
95th percentile per-packet one-way delay: 43.046 ms
Loss rate: 0.74%
```
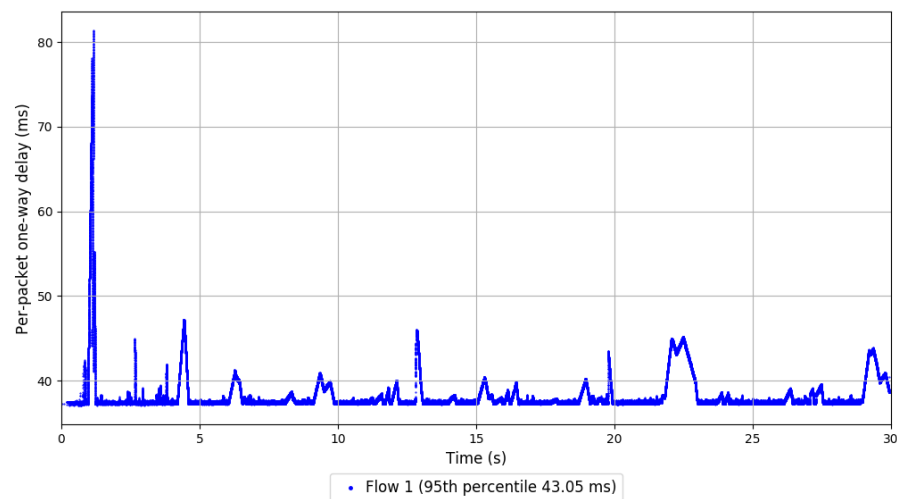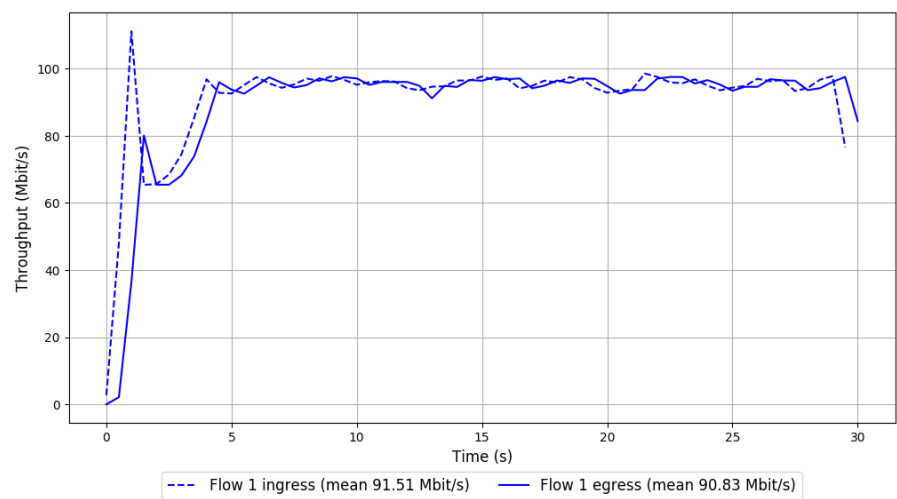
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.51 Mbit/s)   Flow 1 egress (mean 90.83 Mbit/s)

Flow 1 (95th percentile 43.05 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2018-07-09 21:49:36
End at: 2018-07-09 21:50:06
Local clock offset: -0.629 ms
Remote clock offset: 3.829 ms


# Below is generated by plot.py at 2018-07-10 00:09:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 45.334 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 45.334 ms
Loss rate: 0.78%
```
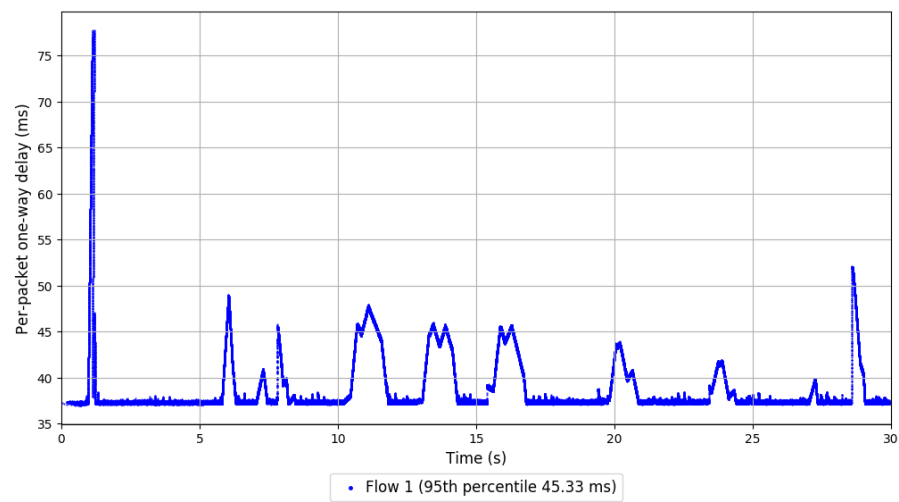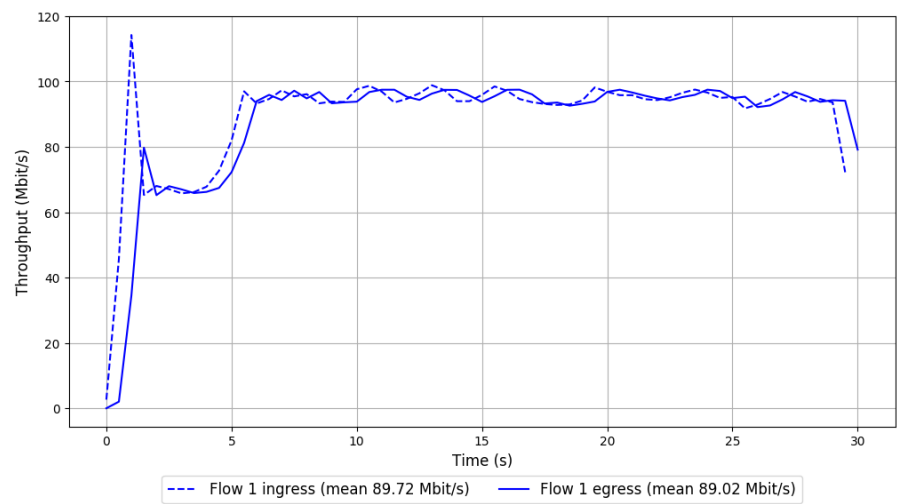
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 89.72 Mbit/s) ——— Flow 1 egress (mean 89.02 Mbit/s)

• Flow 1 (95th percentile 45.33 ms)

```
Run 6: Statistics of PCC-Allegro

Start at: 2018-07-09 22:13:07
End at: 2018-07-09 22:13:37
Local clock offset: -0.908 ms
Remote clock offset: 3.782 ms


# Below is generated by plot.py at 2018-07-10 00:09:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.91 Mbit/s
95th percentile per-packet one-way delay: 53.182 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 90.91 Mbit/s
95th percentile per-packet one-way delay: 53.182 ms
Loss rate: 0.76%
```
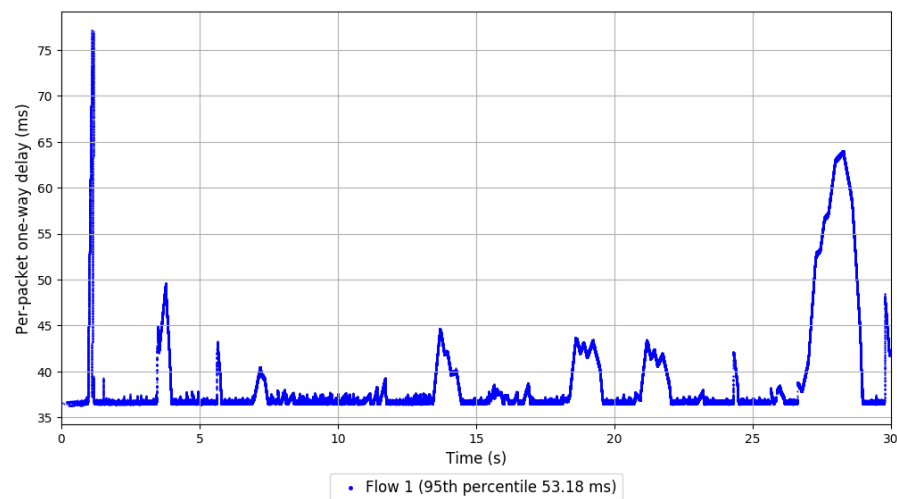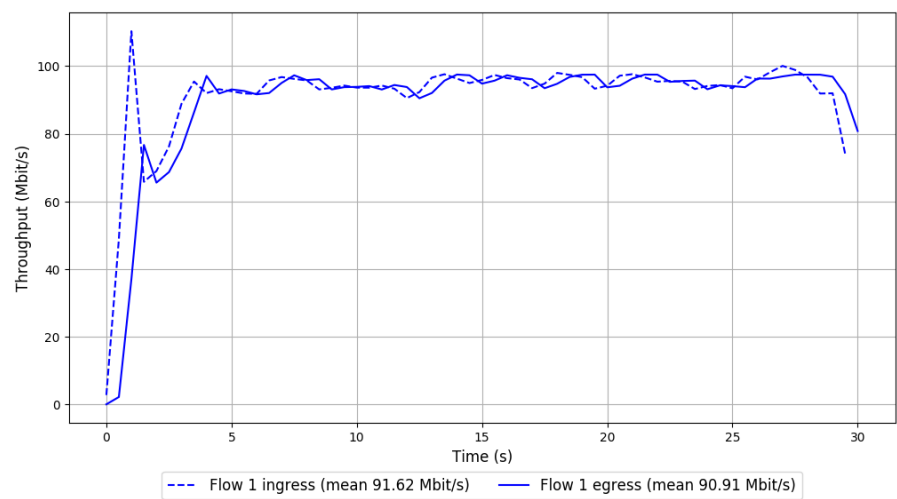
Run 6: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.62 Mbit/s)   Flow 1 egress (mean 90.91 Mbit/s)

• Flow 1 (95th percentile 53.18 ms)

```
Run 7: Statistics of PCC-Allegro

Start at: 2018-07-09 22:36:21
End at: 2018-07-09 22:36:51
Local clock offset: -1.46 ms
Remote clock offset: 3.794 ms


# Below is generated by plot.py at 2018-07-10 00:09:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 45.510 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 45.510 ms
Loss rate: 0.76%
```
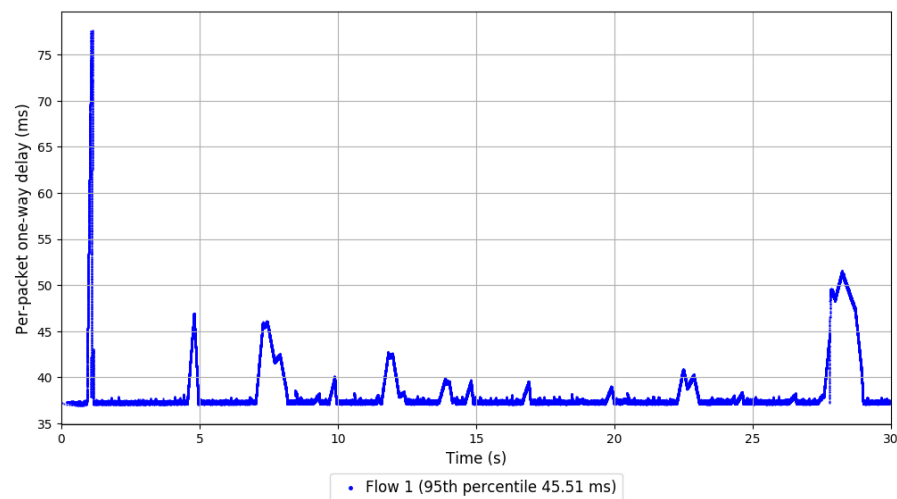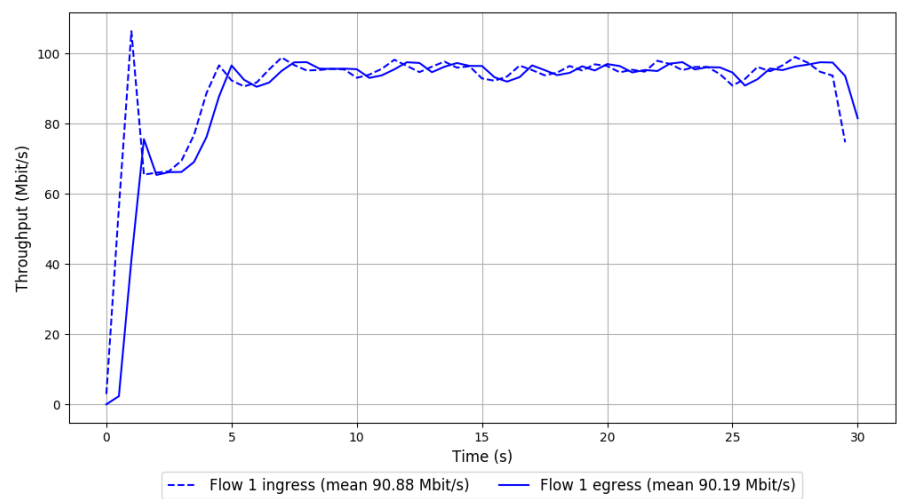
Run 7: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 90.88 Mbit/s)   Flow 1 egress (mean 90.19 Mbit/s)

• Flow 1 (95th percentile 45.51 ms)

```
Run 8: Statistics of PCC-Allegro

Start at: 2018-07-09 23:00:50
End at: 2018-07-09 23:01:20
Local clock offset: -1.584 ms
Remote clock offset: 3.425 ms


# Below is generated by plot.py at 2018-07-10 00:09:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 45.734 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 45.734 ms
Loss rate: 0.78%
```
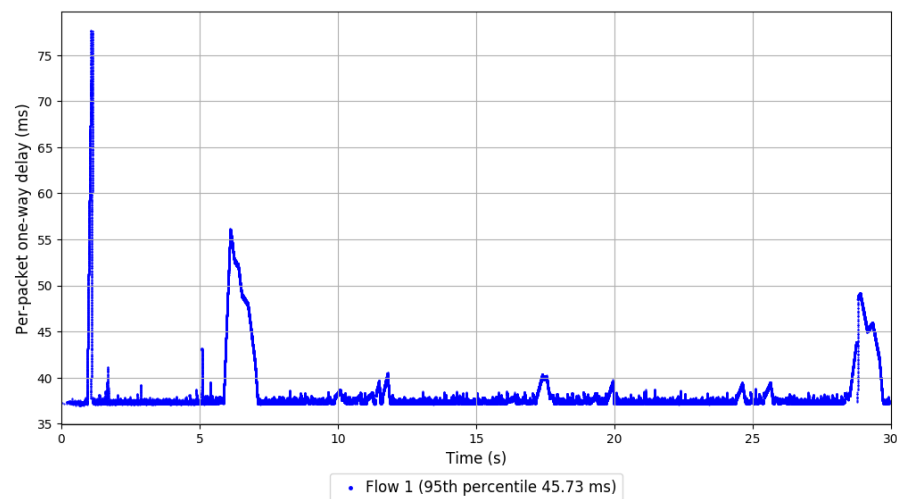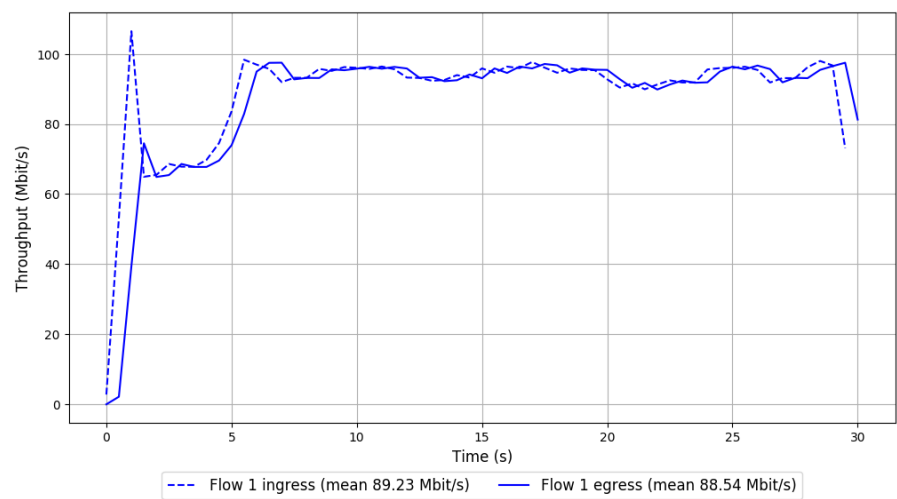
Run 8: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 89.23 Mbit/s)   Flow 1 egress (mean 88.54 Mbit/s)

Flow 1 (95th percentile 45.73 ms)

```
Run 9: Statistics of PCC-Allegro

Start at: 2018-07-09 23:25:00
End at: 2018-07-09 23:25:30
Local clock offset: -1.787 ms
Remote clock offset: 3.336 ms


# Below is generated by plot.py at 2018-07-10 00:09:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 40.156 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 91.26 Mbit/s
95th percentile per-packet one-way delay: 40.156 ms
Loss rate: 0.76%
```
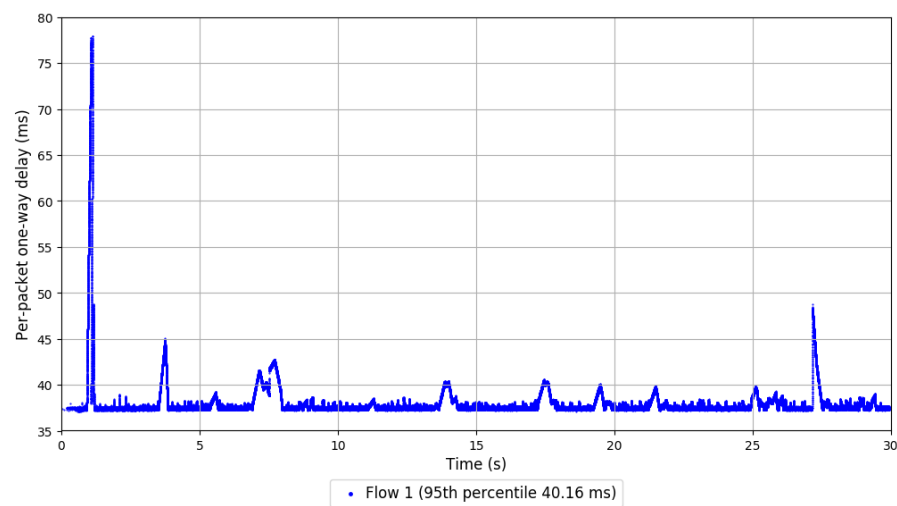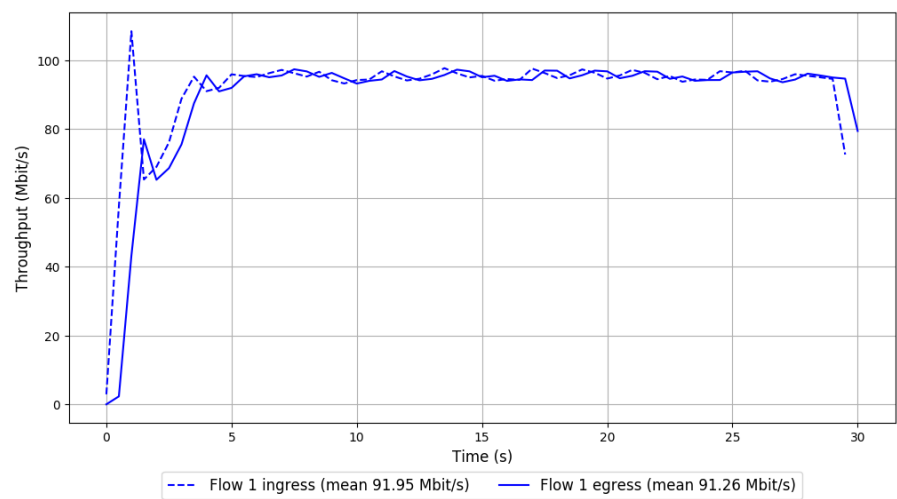
Run 9: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.95 Mbit/s) — Flow 1 egress (mean 91.26 Mbit/s)

Flow 1 (95th percentile 40.16 ms)

161

```
Run 10: Statistics of PCC-Allegro

Start at: 2018-07-09 23:49:29
End at: 2018-07-09 23:49:59
Local clock offset: -1.564 ms
Remote clock offset: 3.749 ms

# Below is generated by plot.py at 2018-07-10 00:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 72.215 ms
Loss rate: 11.52%
-- Flow 1:
Average throughput: 93.36 Mbit/s
95th percentile per-packet one-way delay: 72.215 ms
Loss rate: 11.52%
```
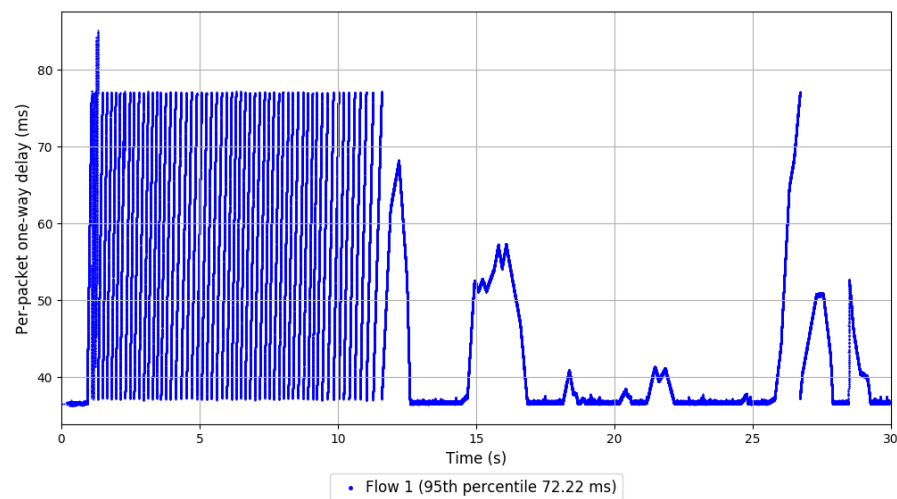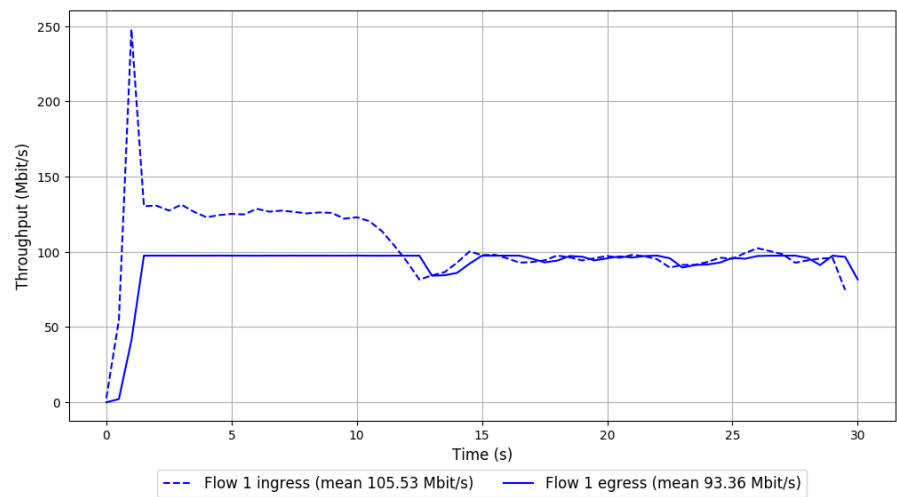
Run 10: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 105.53 Mbit/s) --- Flow 1 egress (mean 93.36 Mbit/s)
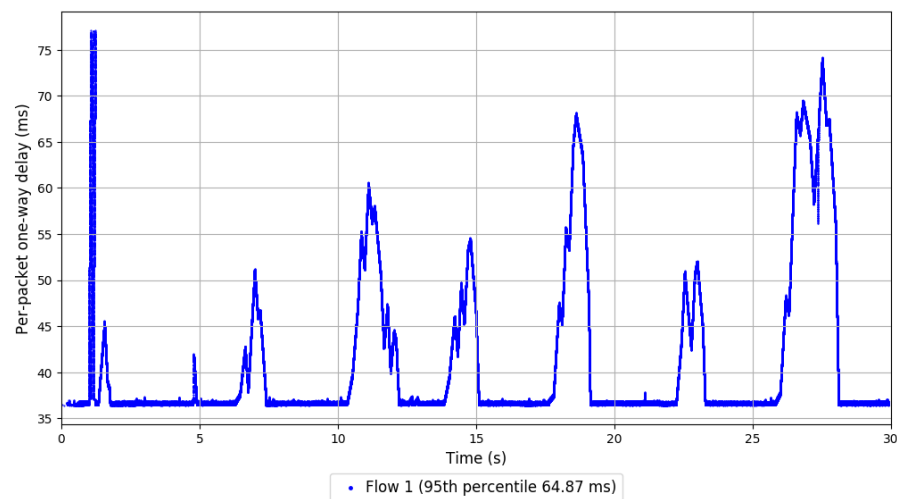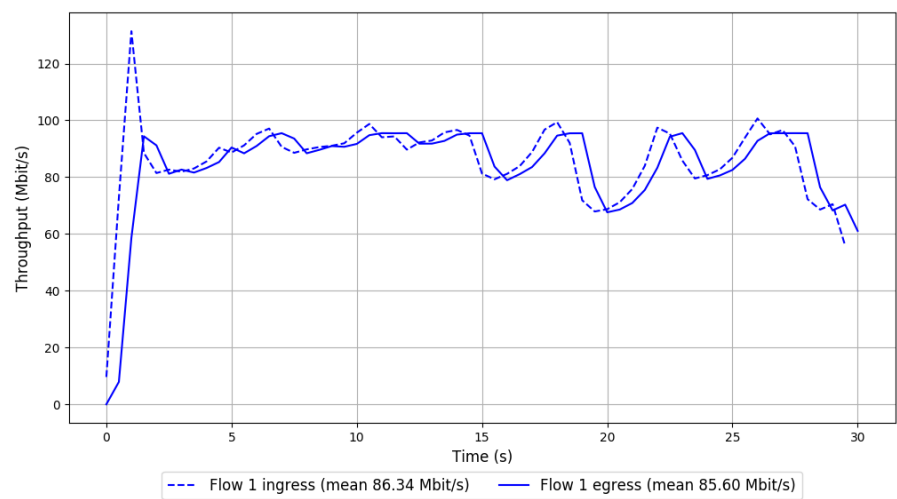

Flow 1 (95th percentile 72.22 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-09 20:05:23
End at: 2018-07-09 20:05:53
Local clock offset: -2.053 ms
Remote clock offset: 5.151 ms

# Below is generated by plot.py at 2018-07-10 00:11:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 64.873 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 64.873 ms
Loss rate: 0.86%
```

Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-09 20:28:58
End at: 2018-07-09 20:29:28
Local clock offset: -2.331 ms
Remote clock offset: 5.837 ms


# Below is generated by plot.py at 2018-07-10 00:11:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.00 Mbit/s
95th percentile per-packet one-way delay: 73.940 ms
Loss rate: 12.08%
-- Flow 1:
Average throughput: 82.00 Mbit/s
95th percentile per-packet one-way delay: 73.940 ms
Loss rate: 12.08%
```
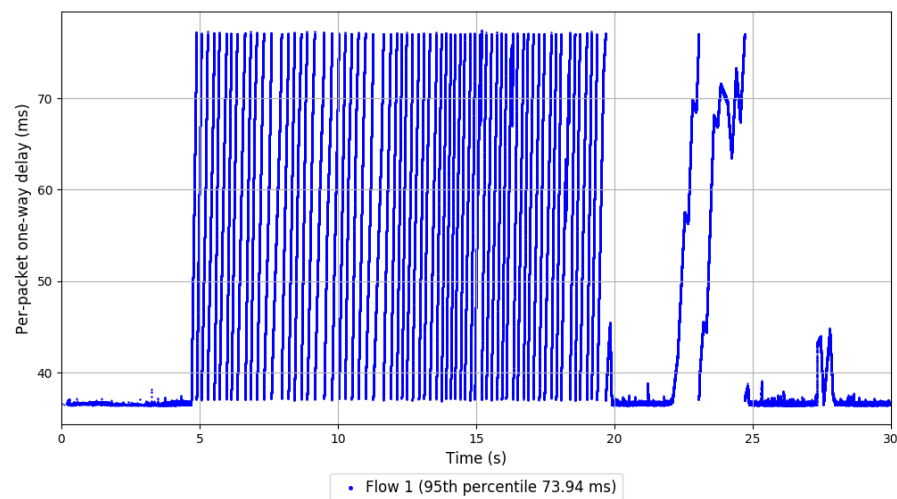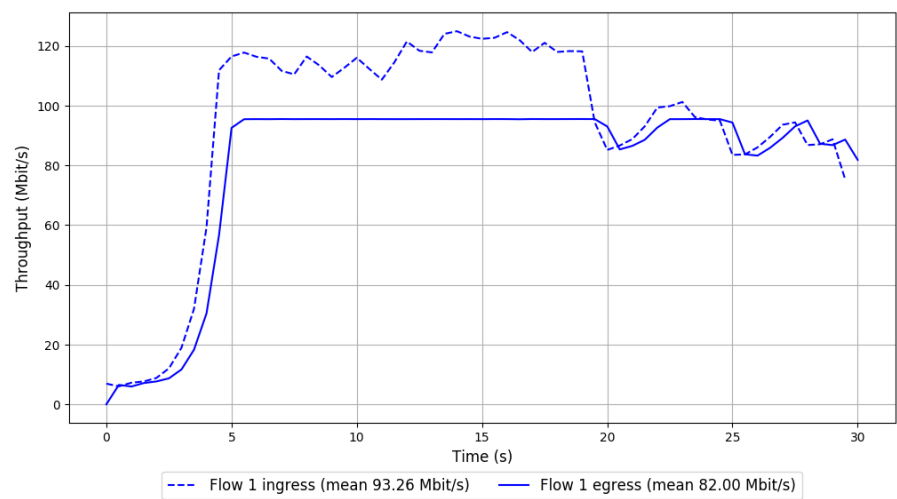
Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 93.26 Mbit/s)   Flow 1 egress (mean 82.00 Mbit/s)

• Flow 1 (95th percentile 73.94 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2018-07-09 20:52:23
End at: 2018-07-09 20:52:53
Local clock offset: -2.964 ms
Remote clock offset: 3.568 ms


# Below is generated by plot.py at 2018-07-10 00:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.44 Mbit/s
95th percentile per-packet one-way delay: 69.358 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 85.44 Mbit/s
95th percentile per-packet one-way delay: 69.358 ms
Loss rate: 1.19%
```
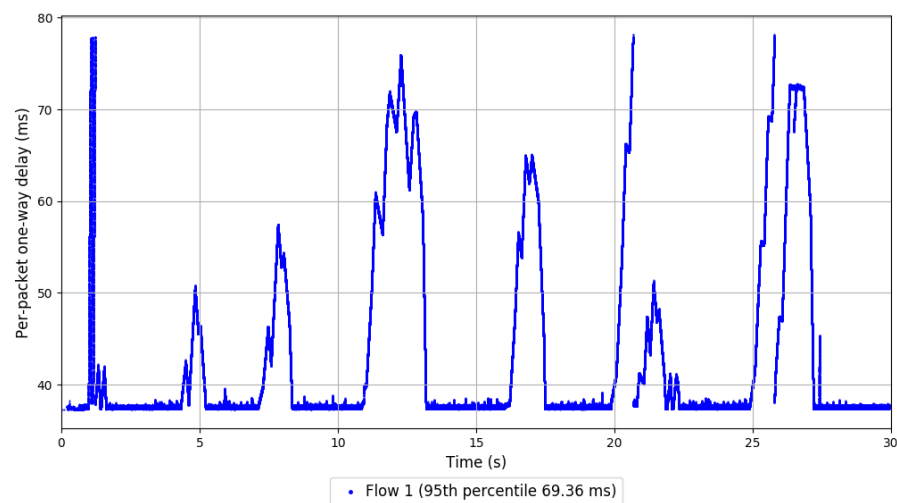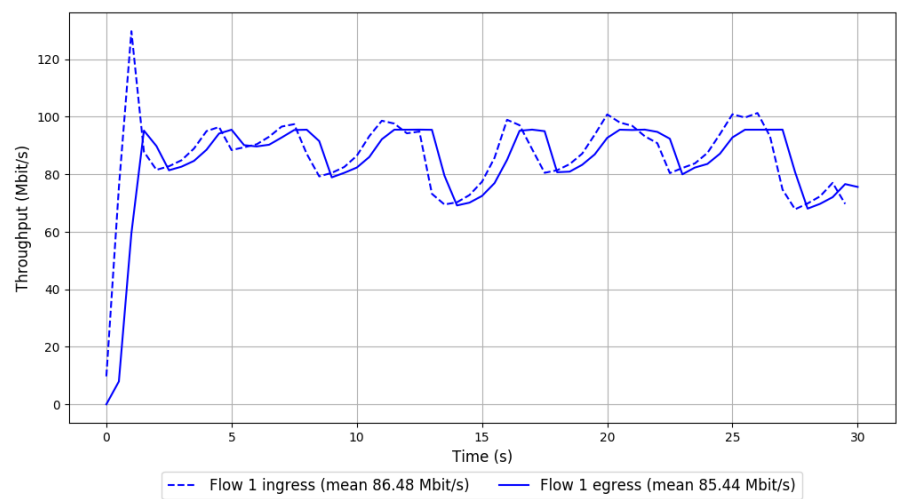
Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 86.48 Mbit/s)   Flow 1 egress (mean 85.44 Mbit/s)

Flow 1 (95th percentile 69.36 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2018-07-09 21:15:26
End at: 2018-07-09 21:15:56
Local clock offset: -1.684 ms
Remote clock offset: 3.482 ms


# Below is generated by plot.py at 2018-07-10 00:11:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.95 Mbit/s
95th percentile per-packet one-way delay: 66.944 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 87.95 Mbit/s
95th percentile per-packet one-way delay: 66.944 ms
Loss rate: 1.05%
```
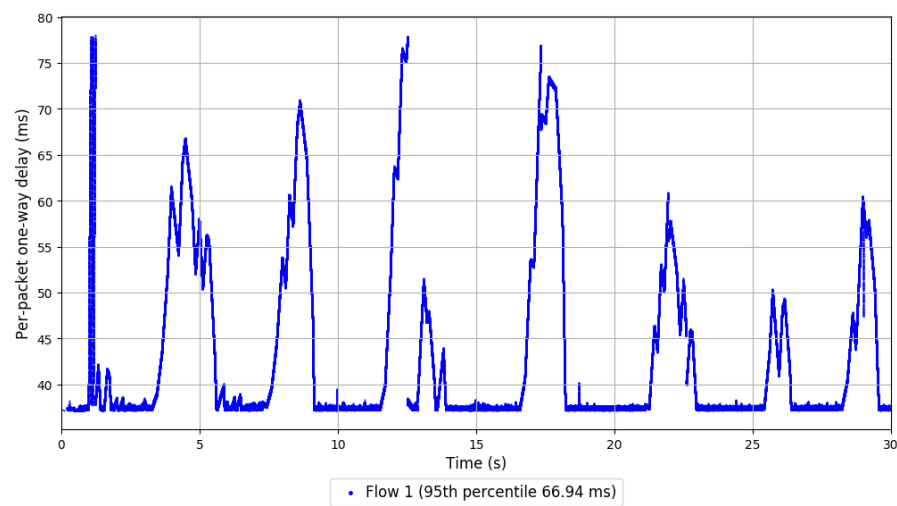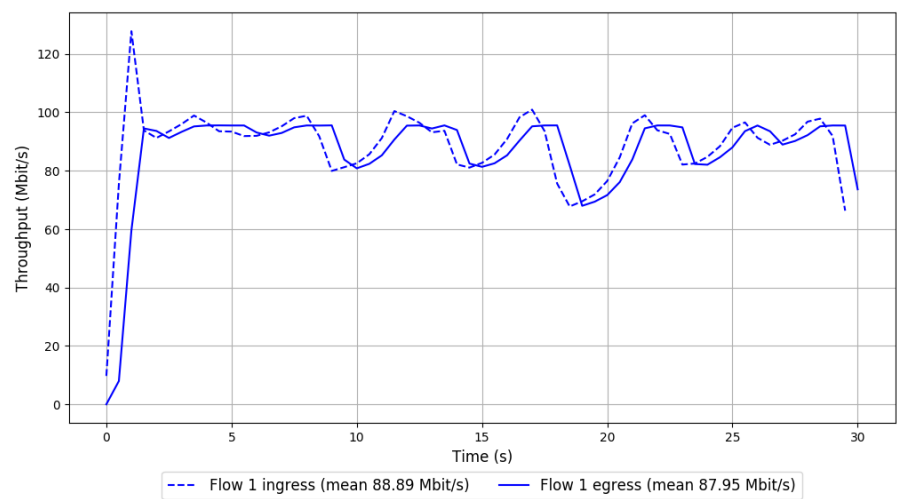
Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 88.89 Mbit/s)   Flow 1 egress (mean 87.95 Mbit/s)

• Flow 1 (95th percentile 66.94 ms)

```
Run 5: Statistics of PCC-Expr

Start at: 2018-07-09 21:38:29
End at: 2018-07-09 21:38:59
Local clock offset: -0.73 ms
Remote clock offset: 3.511 ms


# Below is generated by plot.py at 2018-07-10 00:11:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.90 Mbit/s
95th percentile per-packet one-way delay: 63.187 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 88.90 Mbit/s
95th percentile per-packet one-way delay: 63.187 ms
Loss rate: 1.43%
```
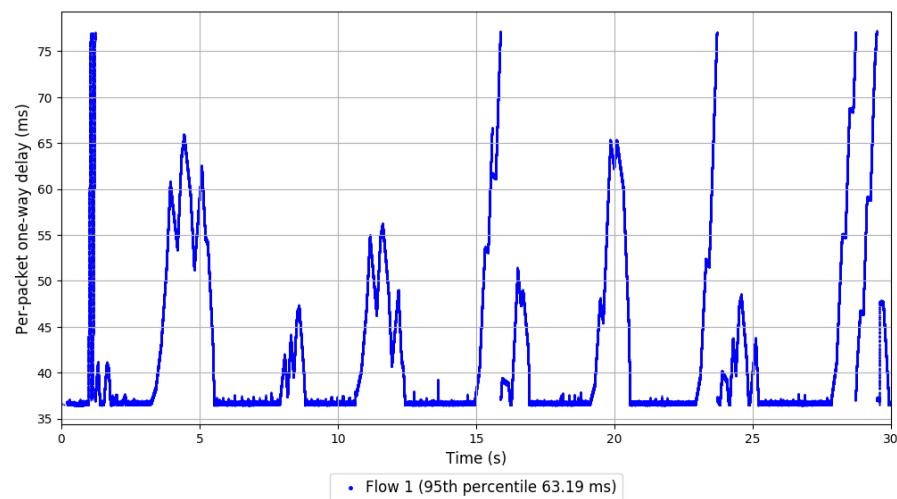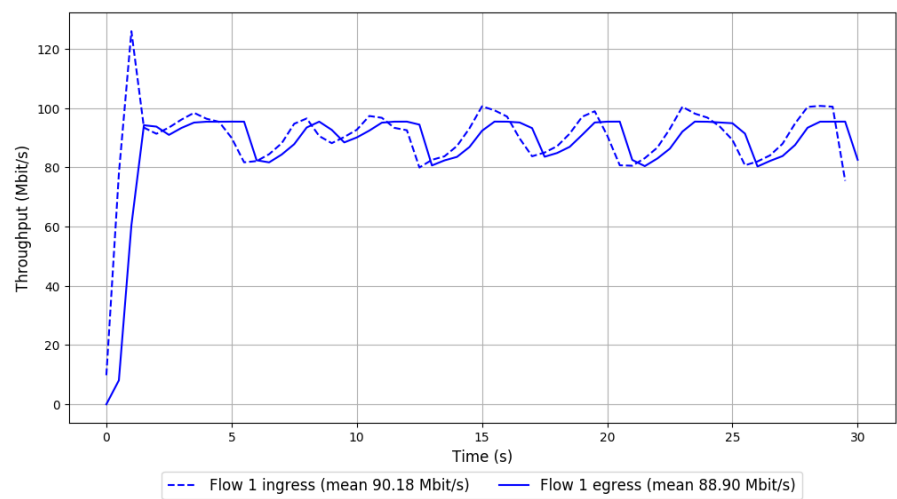
Run 5: Report of PCC-Expr — Data Link

```
Run 6: Statistics of PCC-Expr

Start at: 2018-07-09 22:02:05
End at: 2018-07-09 22:02:35
Local clock offset: -0.75 ms
Remote clock offset: 3.874 ms


# Below is generated by plot.py at 2018-07-10 00:11:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 60.286 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 60.286 ms
Loss rate: 0.85%
```
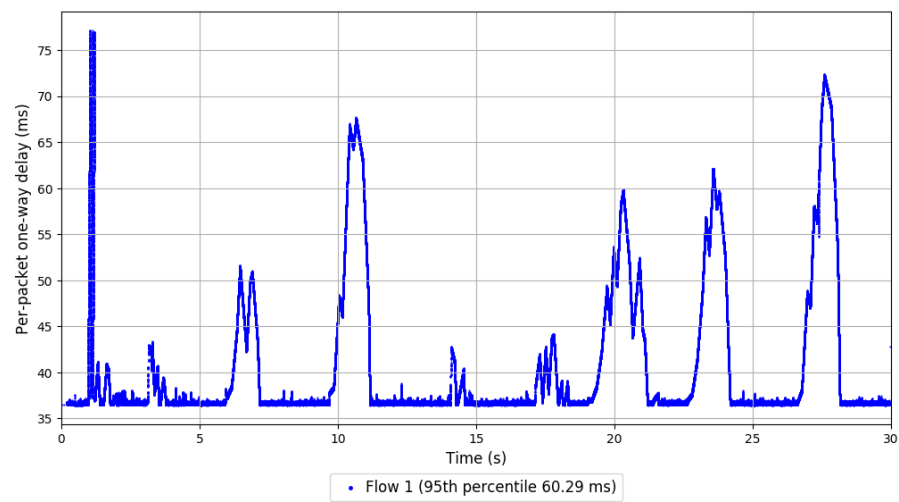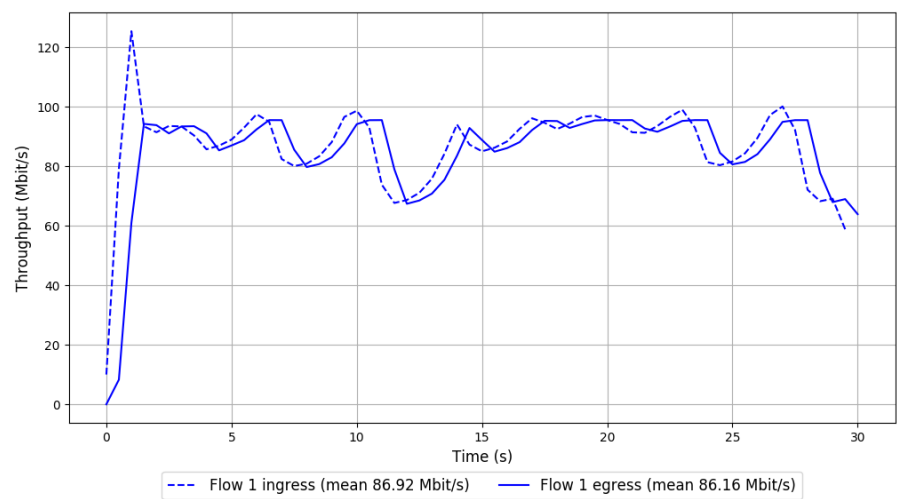
Run 6: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 86.92 Mbit/s) --- Flow 1 egress (mean 86.16 Mbit/s)

• Flow 1 (95th percentile 60.29 ms)

```
Run 7: Statistics of PCC-Expr

Start at: 2018-07-09 22:25:14
End at: 2018-07-09 22:25:44
Local clock offset: -1.202 ms
Remote clock offset: 4.067 ms


# Below is generated by plot.py at 2018-07-10 00:12:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 63.744 ms
Loss rate: 2.04%
-- Flow 1:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 63.744 ms
Loss rate: 2.04%
```
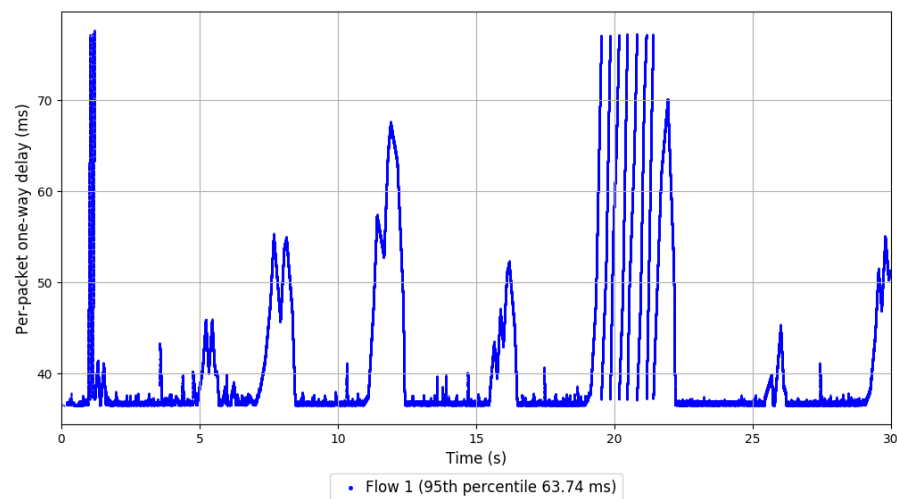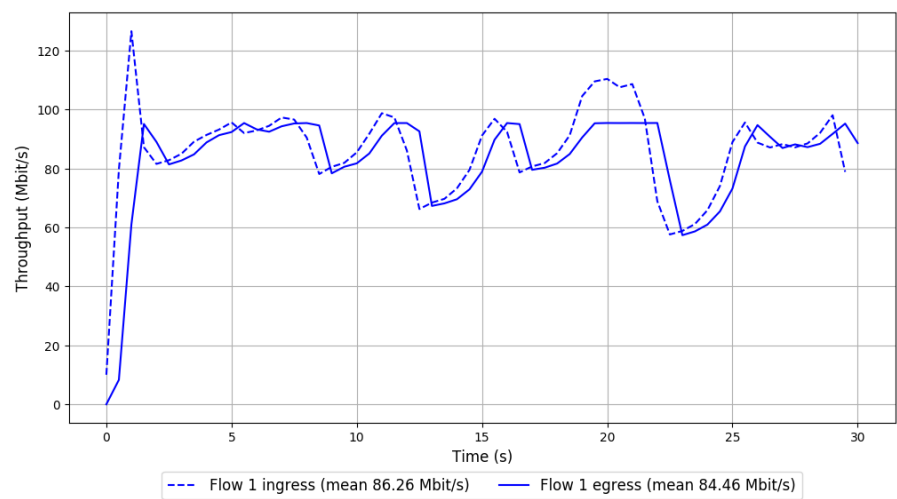
Run 7: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 86.26 Mbit/s)   Flow 1 egress (mean 84.46 Mbit/s)

• Flow 1 (95th percentile 63.74 ms)

```
Run 8: Statistics of PCC-Expr

Start at: 2018-07-09 22:49:11
End at: 2018-07-09 22:49:41
Local clock offset: -1.477 ms
Remote clock offset: 3.759 ms


# Below is generated by plot.py at 2018-07-10 00:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 63.915 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 85.87 Mbit/s
95th percentile per-packet one-way delay: 63.915 ms
Loss rate: 1.01%
```
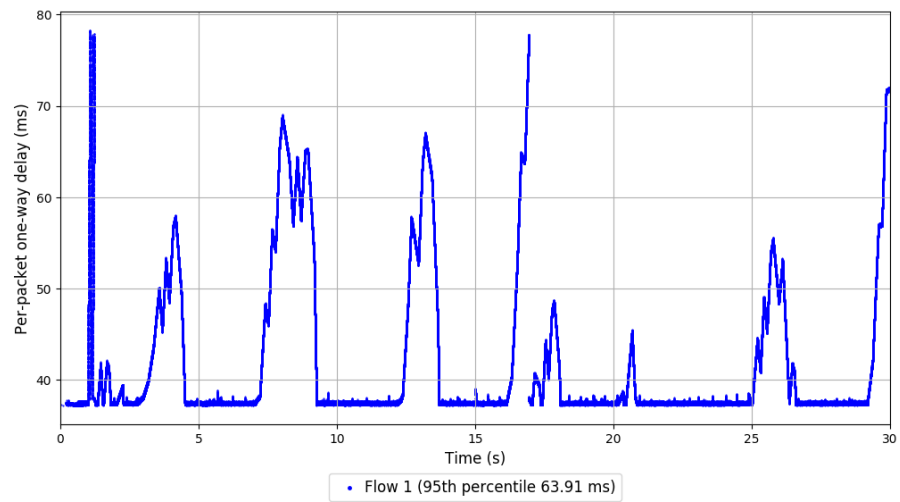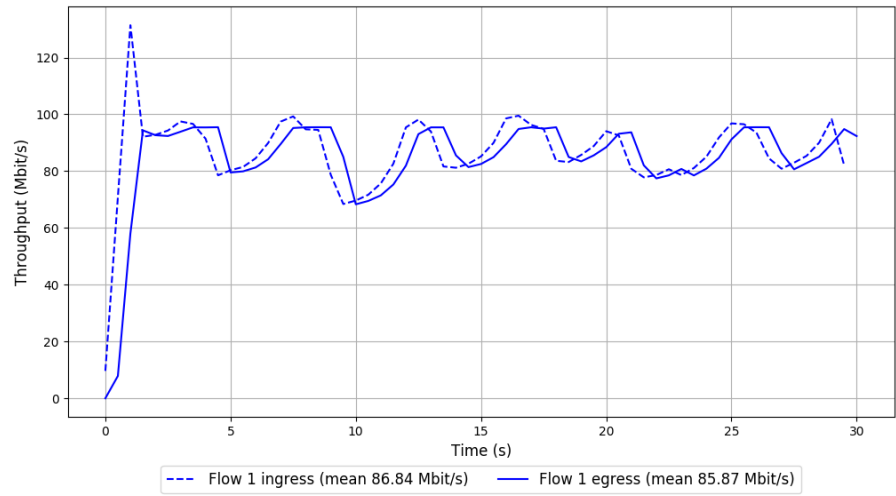
Run 8: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 86.84 Mbit/s) —— Flow 1 egress (mean 85.87 Mbit/s)

• Flow 1 (95th percentile 63.91 ms)

```
Run 9: Statistics of PCC-Expr

Start at: 2018-07-09 23:13:31
End at: 2018-07-09 23:14:01
Local clock offset: -1.677 ms
Remote clock offset: 3.206 ms


# Below is generated by plot.py at 2018-07-10 00:13:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.26 Mbit/s
95th percentile per-packet one-way delay: 61.588 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 84.26 Mbit/s
95th percentile per-packet one-way delay: 61.588 ms
Loss rate: 1.12%
```
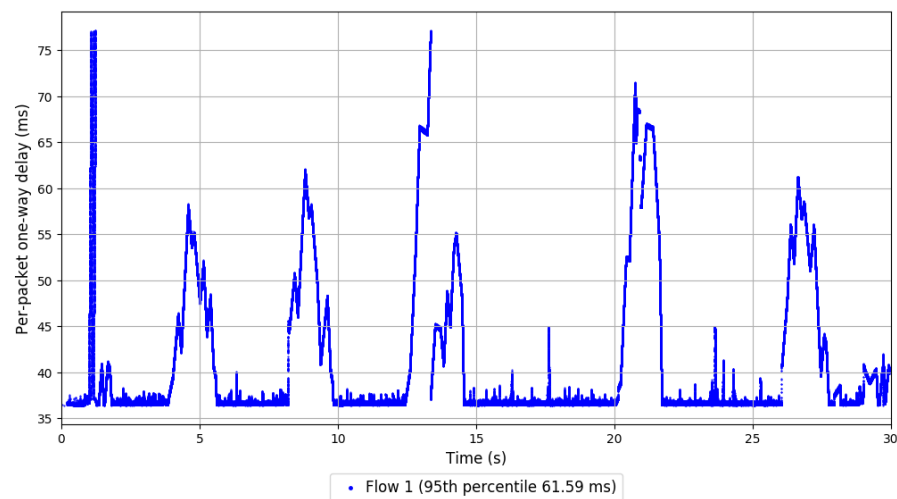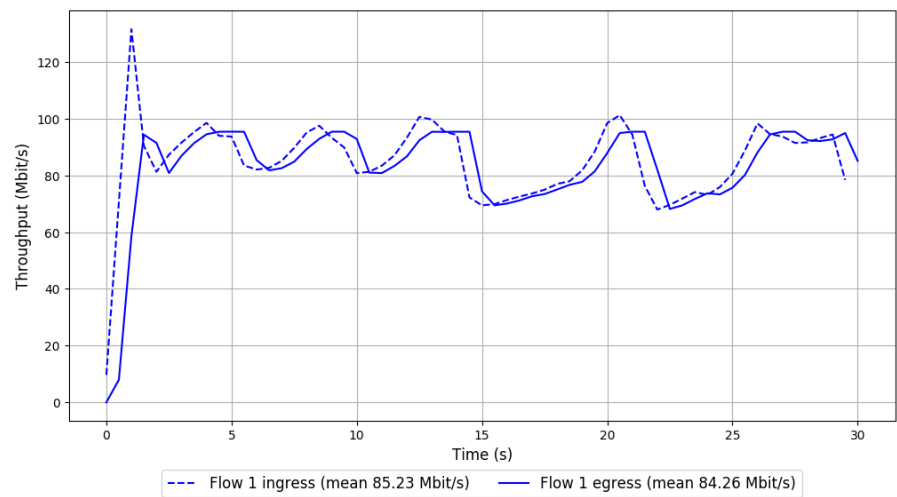
Run 9: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 85.23 Mbit/s) --- Flow 1 egress (mean 84.26 Mbit/s)

· Flow 1 (95th percentile 61.59 ms)

```
Run 10: Statistics of PCC-Expr

Start at: 2018-07-09 23:38:07
End at: 2018-07-09 23:38:37
Local clock offset: -1.644 ms
Remote clock offset: 3.642 ms


# Below is generated by plot.py at 2018-07-10 00:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 63.429 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 87.66 Mbit/s
95th percentile per-packet one-way delay: 63.429 ms
Loss rate: 1.29%
```
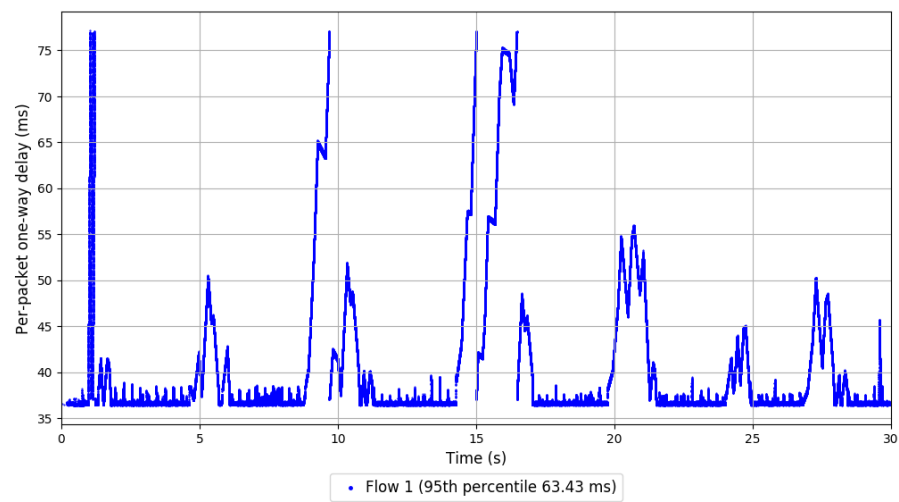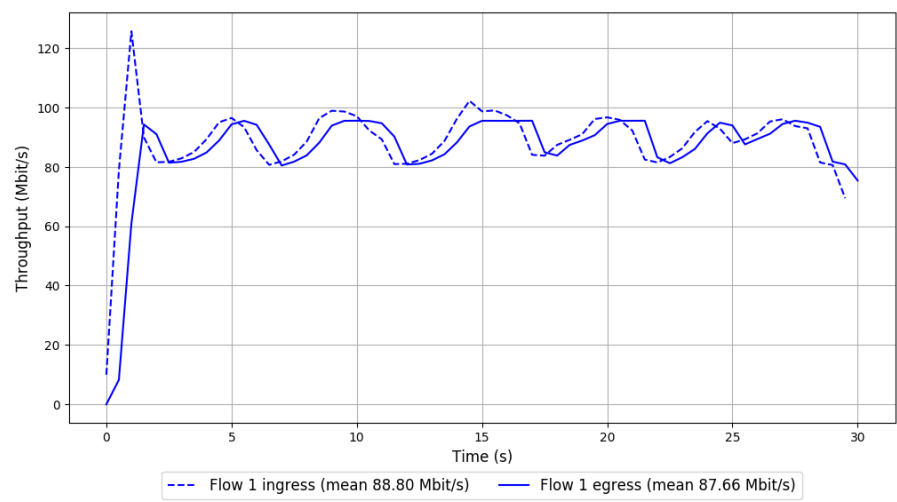
Run 10: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 88.80 Mbit/s)   Flow 1 egress (mean 87.66 Mbit/s)

• Flow 1 (95th percentile 63.43 ms)
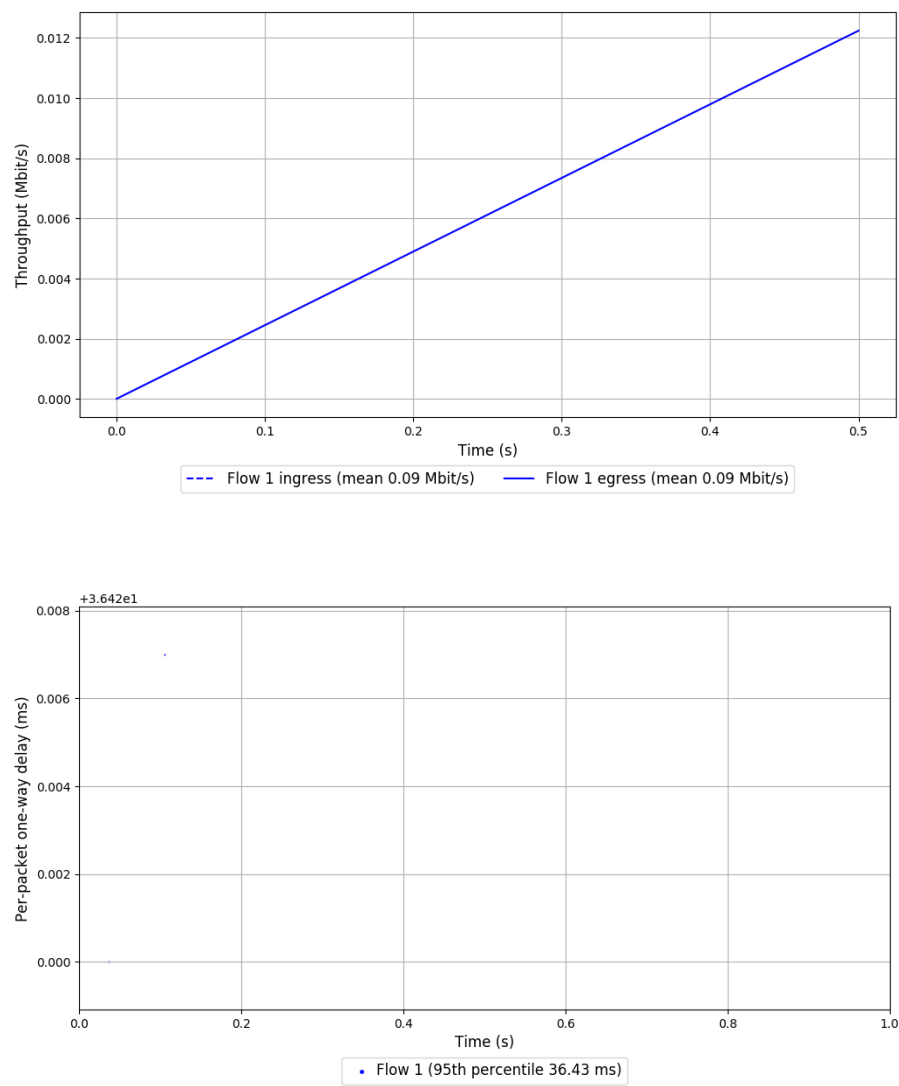
```
Run 1: Statistics of QUIC Cubic

Start at: 2018-07-09 20:12:11
End at: 2018-07-09 20:12:41
Local clock offset: -2.183 ms
Remote clock offset: 5.38 ms
```

Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-07-09 20:36:11
End at: 2018-07-09 20:36:41
Local clock offset: -2.685 ms
Remote clock offset: 4.83 ms


# Below is generated by plot.py at 2018-07-10 00:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 72.159 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 72.75 Mbit/s
95th percentile per-packet one-way delay: 72.159 ms
Loss rate: 2.61%
```
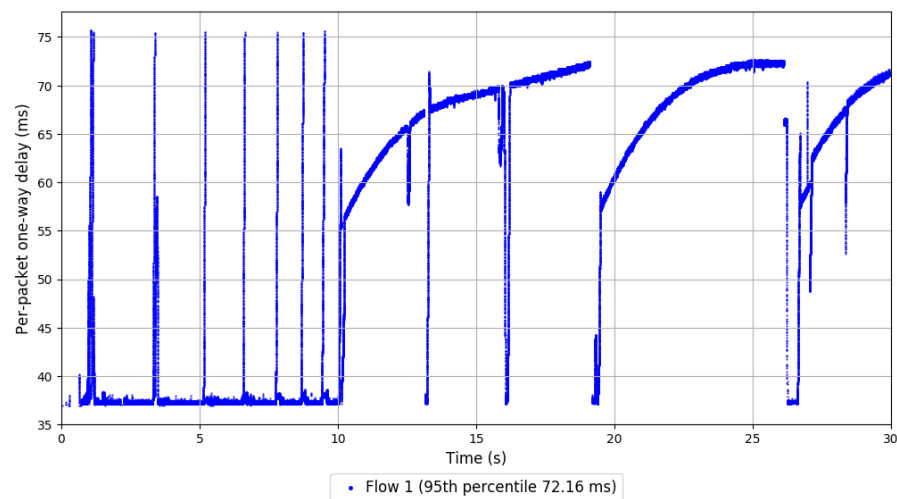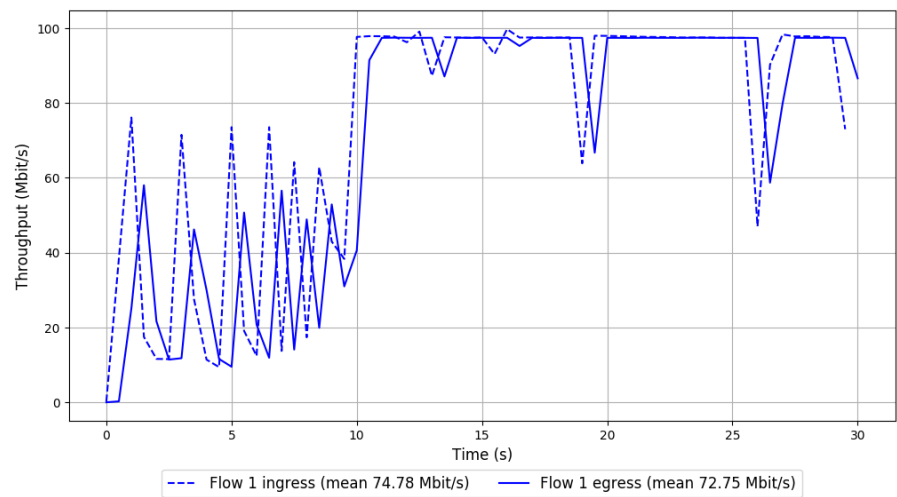
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-07-09 20:59:19
End at: 2018-07-09 20:59:49
Local clock offset: -2.467 ms
Remote clock offset: 3.281 ms


# Below is generated by plot.py at 2018-07-10 00:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 74.378 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 74.378 ms
Loss rate: 2.87%
```
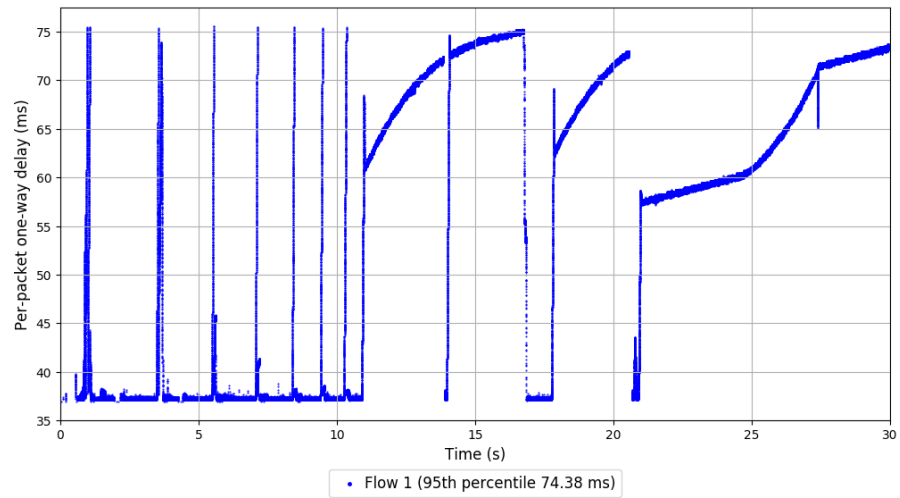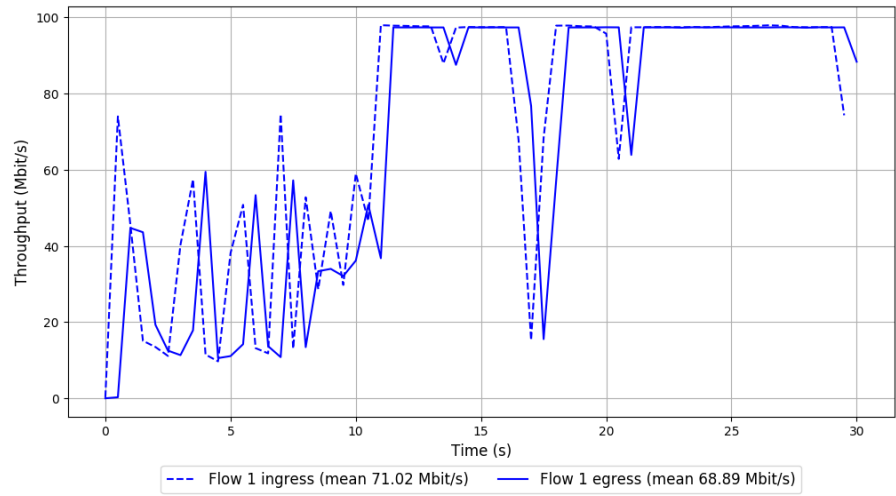
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 71.02 Mbit/s) --- Flow 1 egress (mean 68.89 Mbit/s)

Flow 1 (95th percentile 74.38 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-07-09 21:22:06
End at: 2018-07-09 21:22:36
Local clock offset: -1.339 ms
Remote clock offset: 3.555 ms

# Below is generated by plot.py at 2018-07-10 00:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.74 Mbit/s
95th percentile per-packet one-way delay: 44.250 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 62.74 Mbit/s
95th percentile per-packet one-way delay: 44.250 ms
Loss rate: 3.23%
```
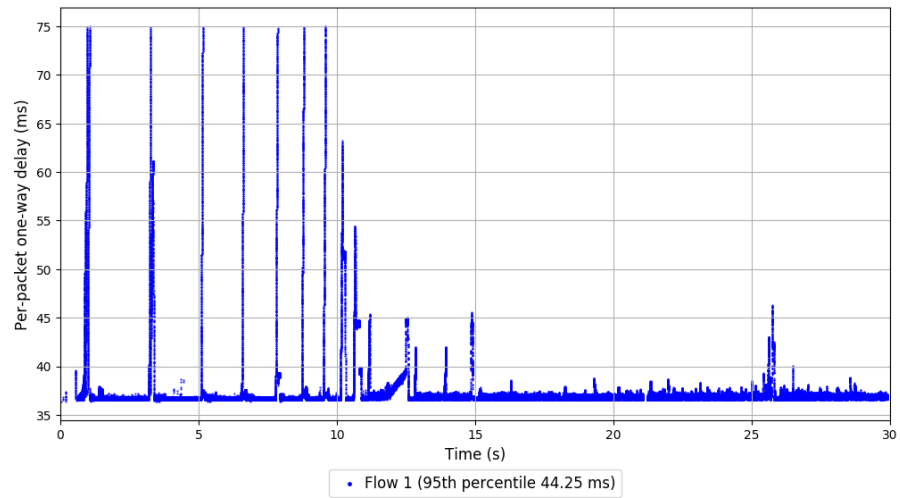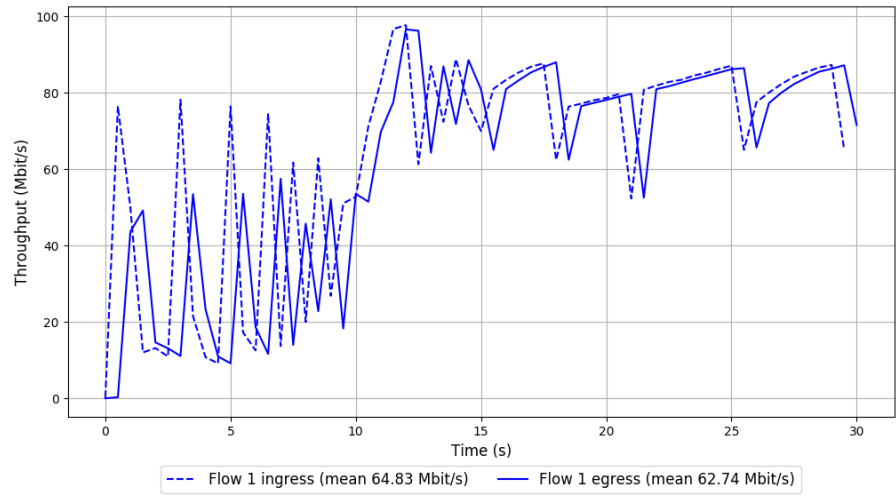
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 64.83 Mbit/s) --- Flow 1 egress (mean 62.74 Mbit/s)

• Flow 1 (95th percentile 44.25 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-07-09 21:45:30
End at: 2018-07-09 21:46:00
Local clock offset: -0.661 ms
Remote clock offset: 3.705 ms

# Below is generated by plot.py at 2018-07-10 00:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 70.691 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 86.67 Mbit/s
95th percentile per-packet one-way delay: 70.691 ms
Loss rate: 0.63%
```
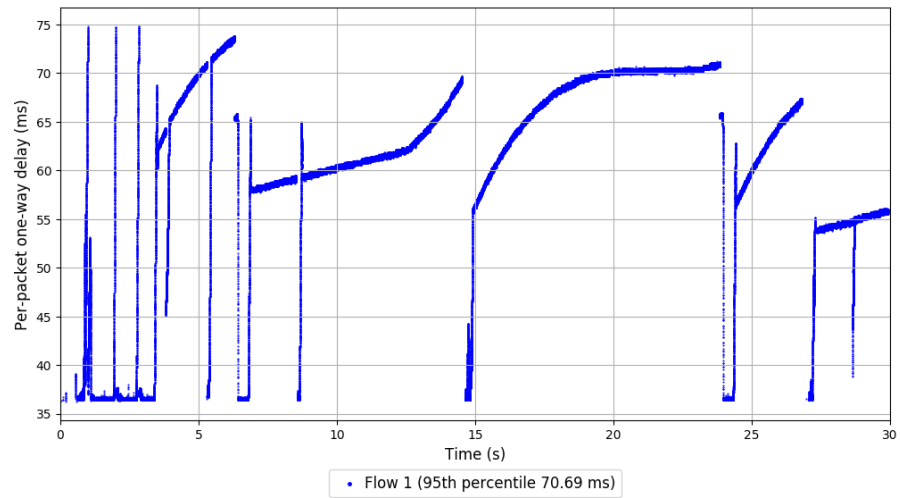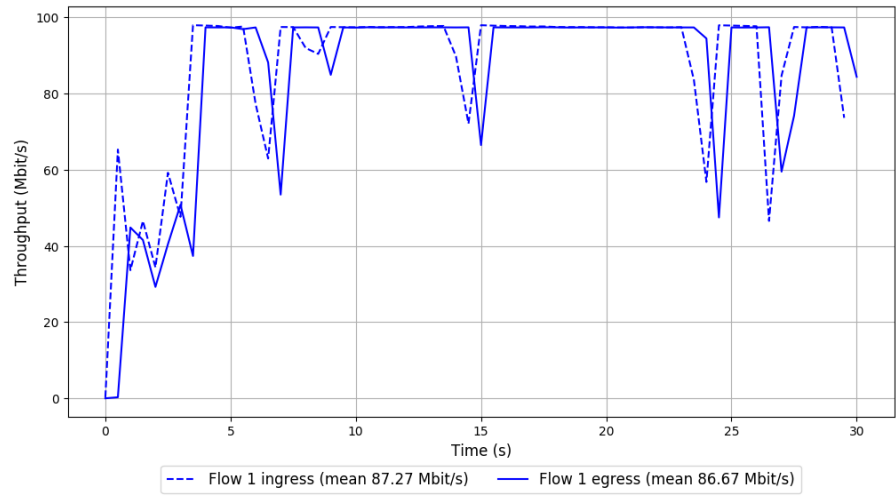
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 87.27 Mbit/s) --- Flow 1 egress (mean 86.67 Mbit/s)

• Flow 1 (95th percentile 70.69 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-07-09 22:09:08
End at: 2018-07-09 22:09:38
Local clock offset: -0.851 ms
Remote clock offset: 3.776 ms


# Below is generated by plot.py at 2018-07-10 00:13:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.60 Mbit/s
95th percentile per-packet one-way delay: 73.721 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 69.60 Mbit/s
95th percentile per-packet one-way delay: 73.721 ms
Loss rate: 2.80%
```
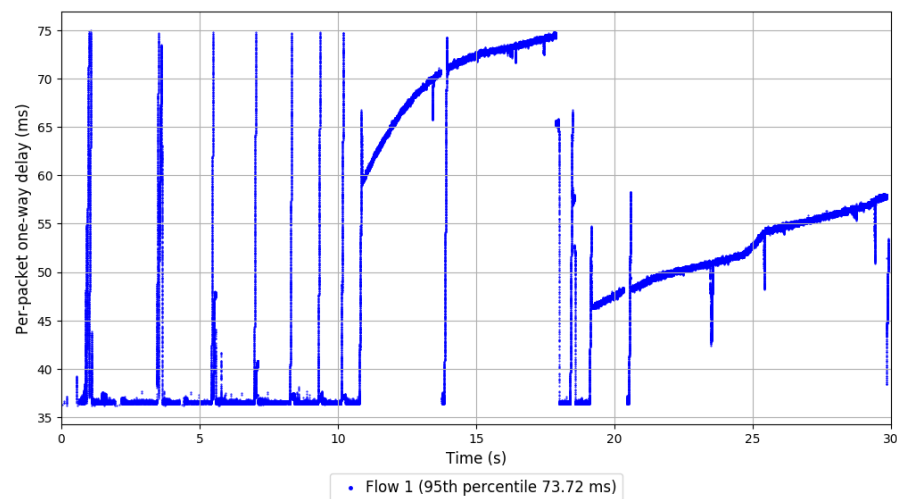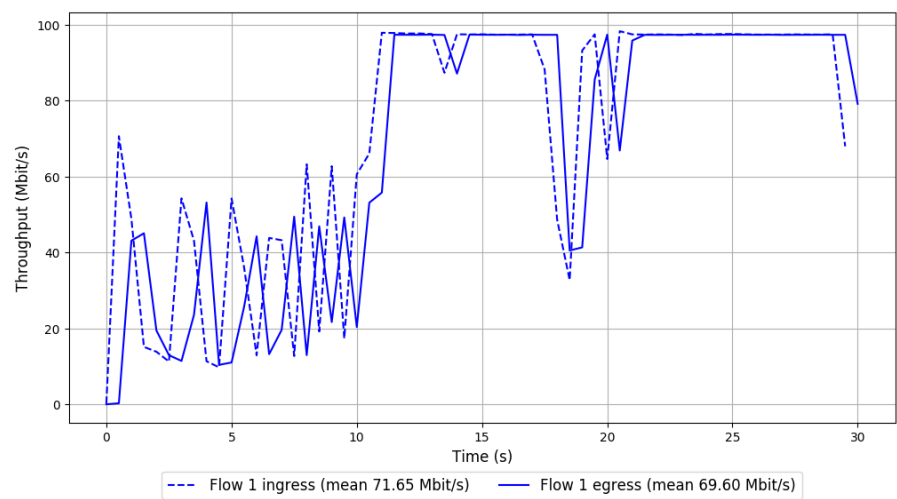
Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 71.65 Mbit/s)   Flow 1 egress (mean 69.60 Mbit/s)

Flow 1 (95th percentile 73.72 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-07-09 22:32:11
End at: 2018-07-09 22:32:41
Local clock offset: -1.396 ms
Remote clock offset: 3.917 ms


# Below is generated by plot.py at 2018-07-10 00:13:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.11 Mbit/s
95th percentile per-packet one-way delay: 72.686 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 73.11 Mbit/s
95th percentile per-packet one-way delay: 72.686 ms
Loss rate: 2.66%
```
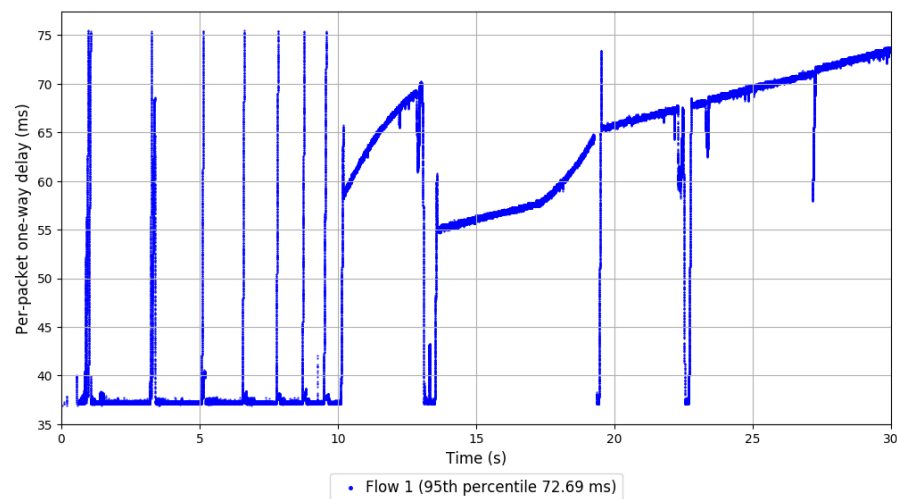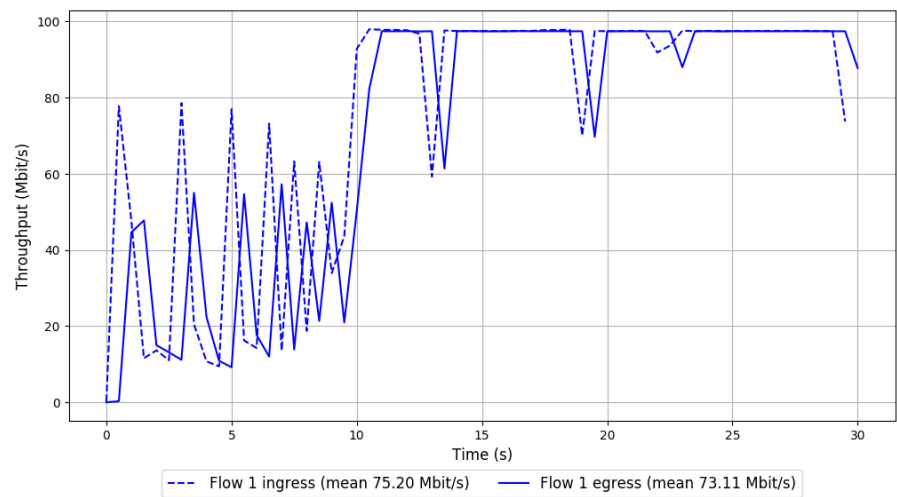
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 75.20 Mbit/s)   —— Flow 1 egress (mean 73.11 Mbit/s)

• Flow 1 (95th percentile 72.69 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-07-09 22:56:35
End at: 2018-07-09 22:57:05
Local clock offset: -1.556 ms
Remote clock offset: 3.482 ms


# Below is generated by plot.py at 2018-07-10 00:13:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.86 Mbit/s
95th percentile per-packet one-way delay: 70.893 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 70.86 Mbit/s
95th percentile per-packet one-way delay: 70.893 ms
Loss rate: 2.80%
```
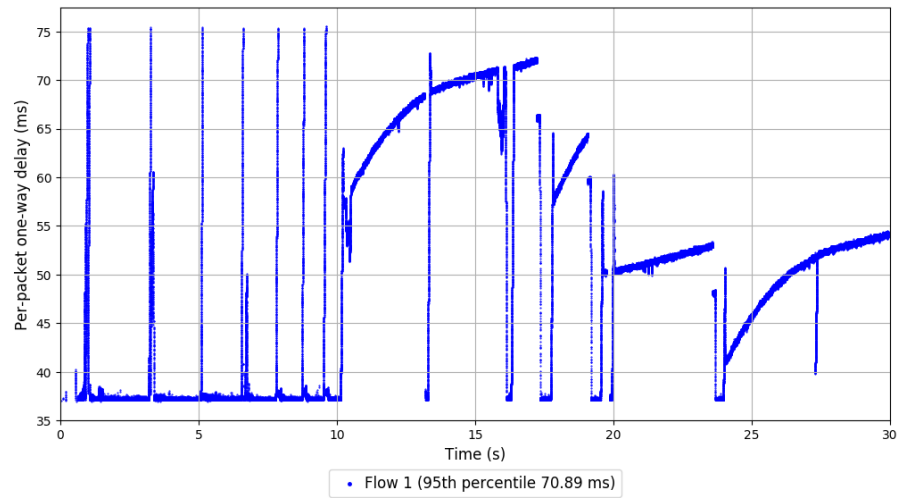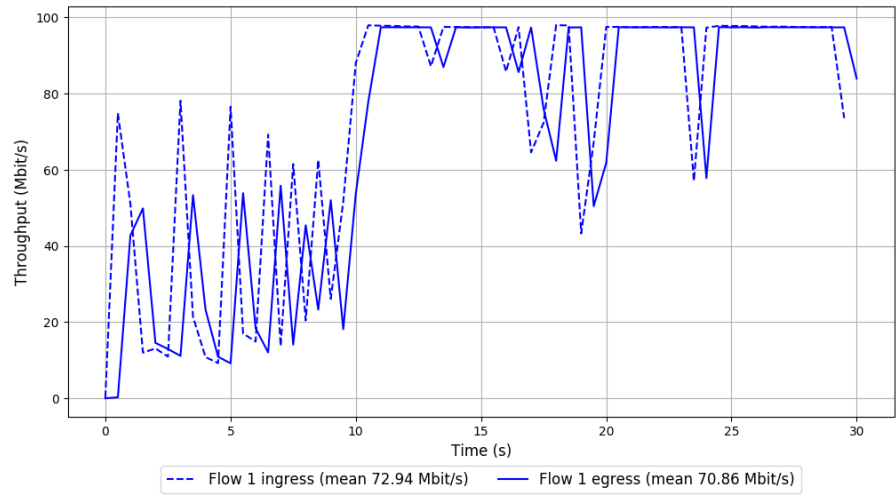
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 72.94 Mbit/s) --- Flow 1 egress (mean 70.86 Mbit/s)

Flow 1 (95th percentile 70.89 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-07-09 23:20:48
End at: 2018-07-09 23:21:18
Local clock offset: -1.701 ms
Remote clock offset: 3.144 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 72.520 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 72.520 ms
Loss rate: 0.79%
```
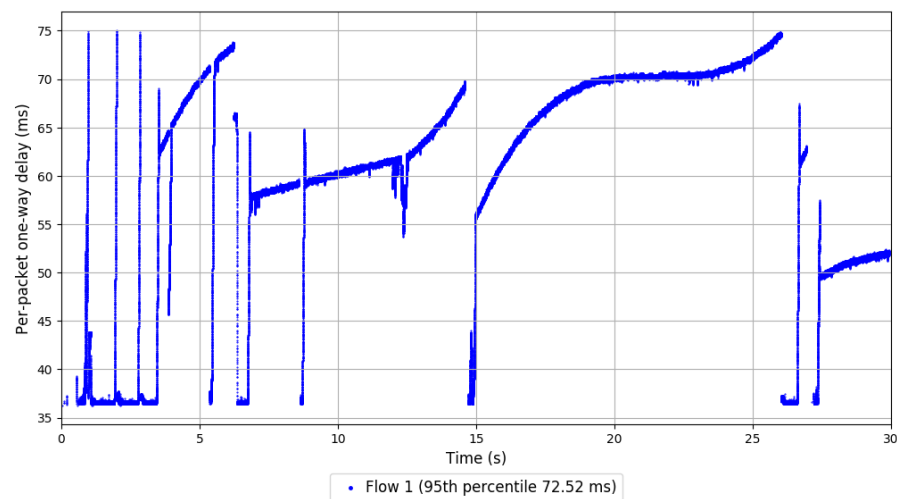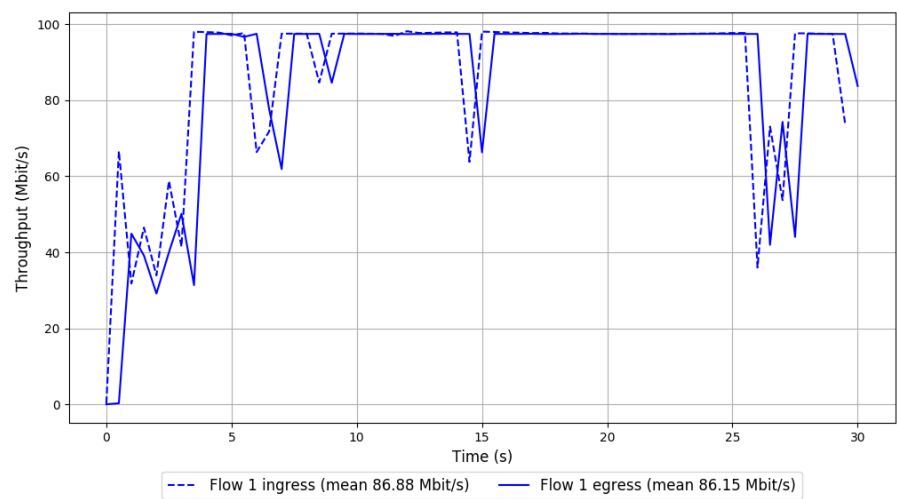
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 86.88 Mbit/s) --- Flow 1 egress (mean 86.15 Mbit/s)

Flow 1 (95th percentile 72.52 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-07-09 23:45:22
End at: 2018-07-09 23:45:52
Local clock offset: -1.671 ms
Remote clock offset: 3.766 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 72.150 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 73.51 Mbit/s
95th percentile per-packet one-way delay: 72.150 ms
Loss rate: 2.67%
```
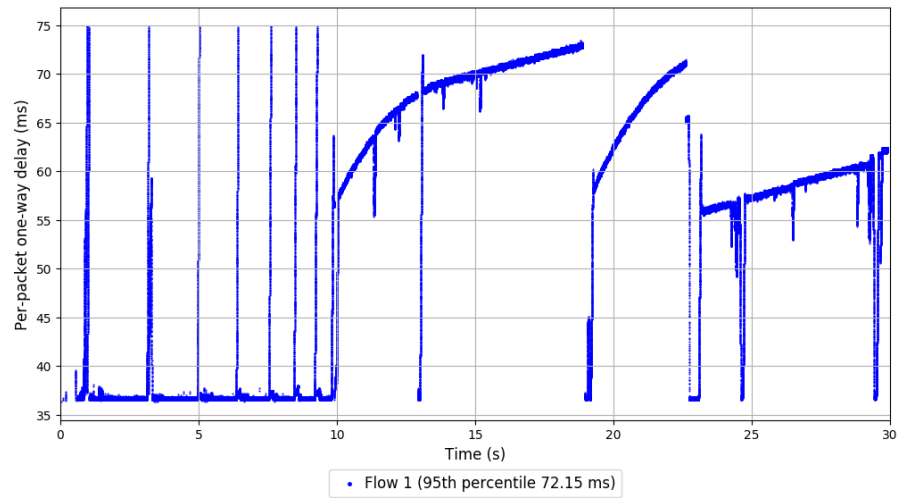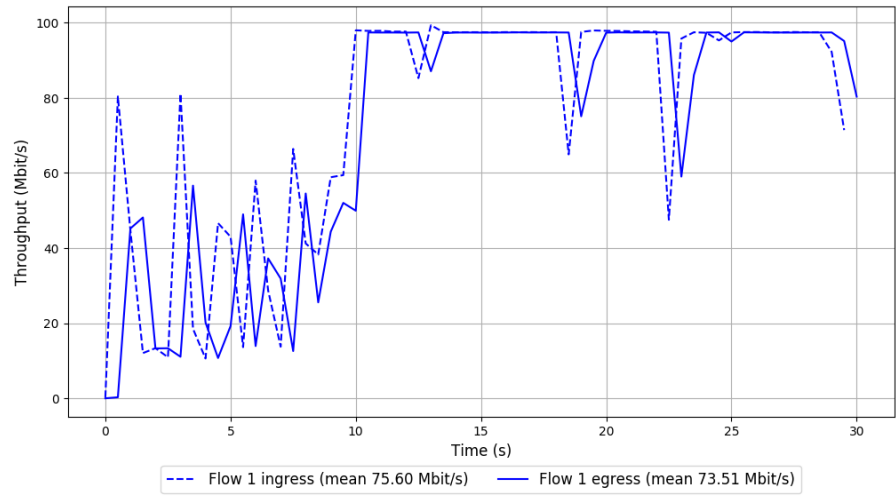
Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 75.60 Mbit/s) --- Flow 1 egress (mean 73.51 Mbit/s)
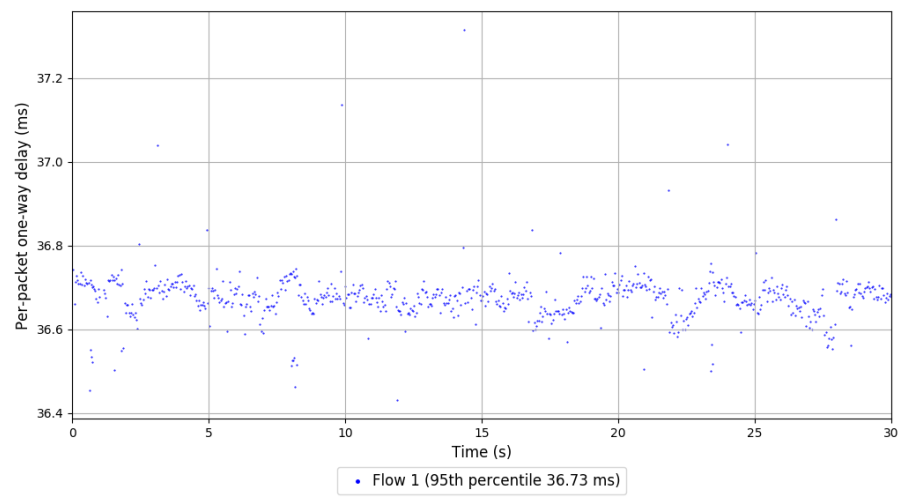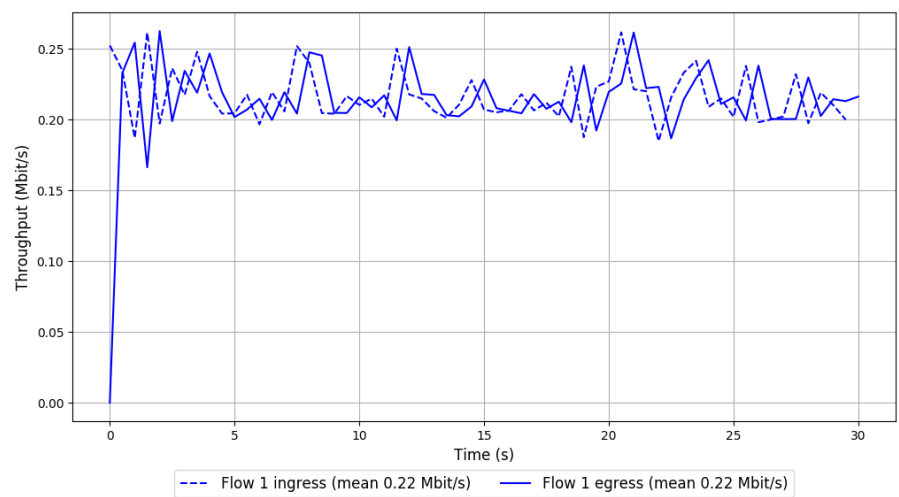

Flow 1 (95th percentile 72.15 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-07-09 20:13:26
End at: 2018-07-09 20:13:56
Local clock offset: -2.169 ms
Remote clock offset: 5.409 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.728 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link

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

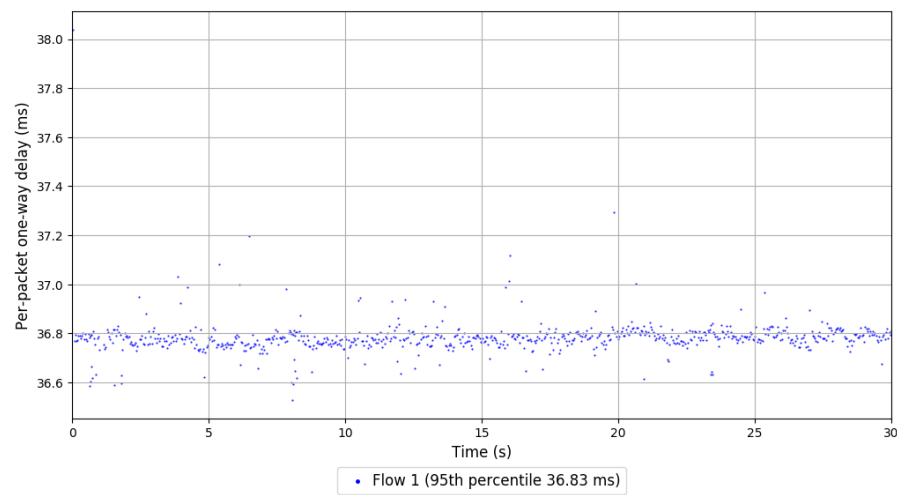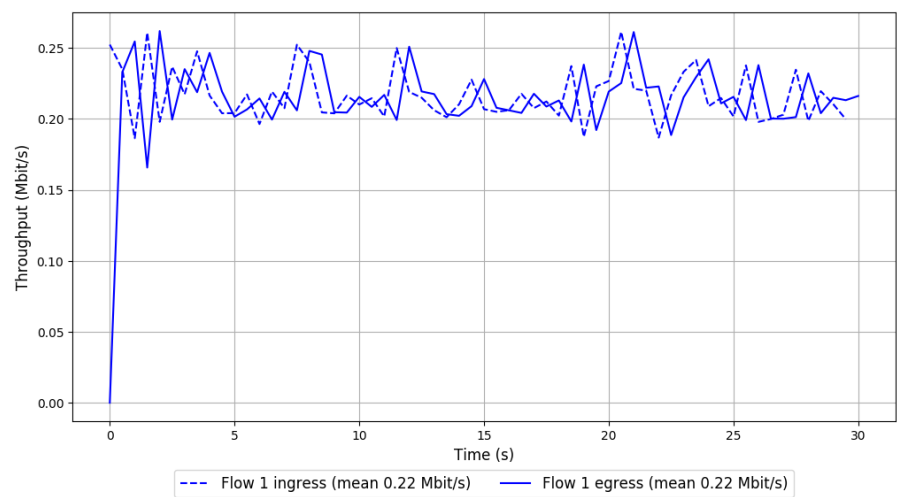Flow 1 (95th percentile 36.73 ms)

```
Run 2: Statistics of SCReAM

Start at: 2018-07-09 20:37:32
End at: 2018-07-09 20:38:02
Local clock offset: -2.76 ms
Remote clock offset: 4.768 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.833 ms
Loss rate: 0.00%
```
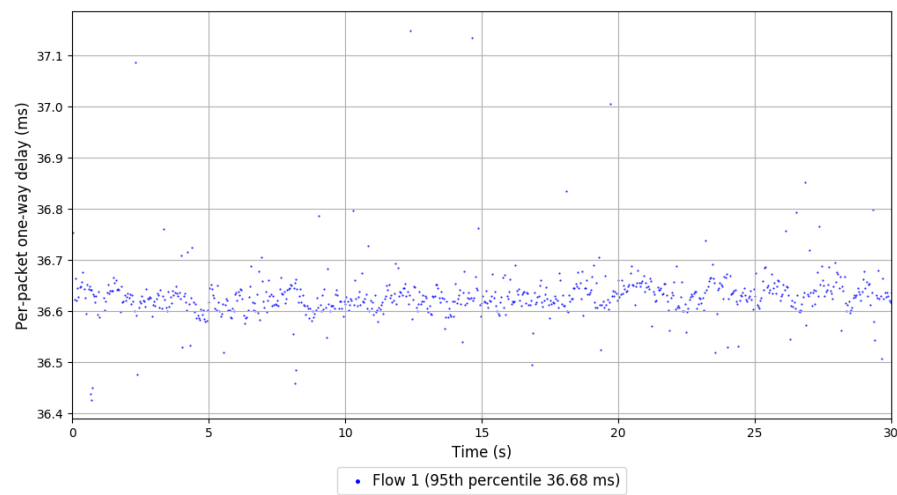
Run 2: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 36.83 ms)

```
Run 3: Statistics of SCReAM

Start at: 2018-07-09 21:00:41
End at: 2018-07-09 21:01:11
Local clock offset: -2.407 ms
Remote clock offset: 3.248 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.679 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 36.679 ms
Loss rate: 0.00%
```
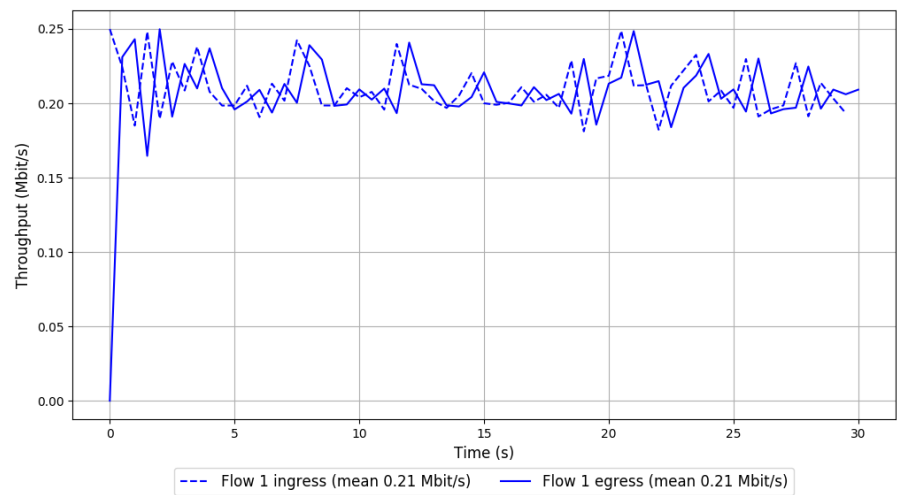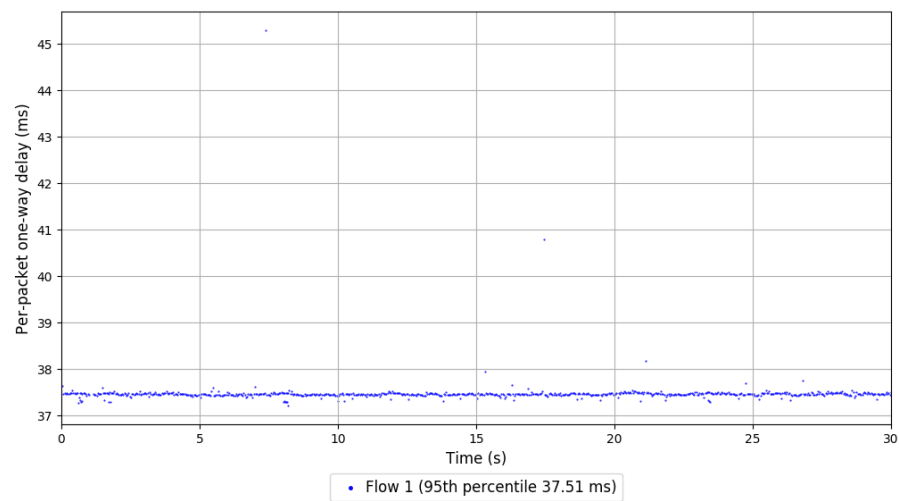
Run 3: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.21 Mbit/s)   Flow 1 egress (mean 0.21 Mbit/s)

Flow 1 (95th percentile 36.68 ms)

```
Run 4: Statistics of SCReAM

Start at: 2018-07-09 21:23:25
End at: 2018-07-09 21:23:56
Local clock offset: -1.29 ms
Remote clock offset: 3.576 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.505 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.505 ms
Loss rate: 0.00%
```
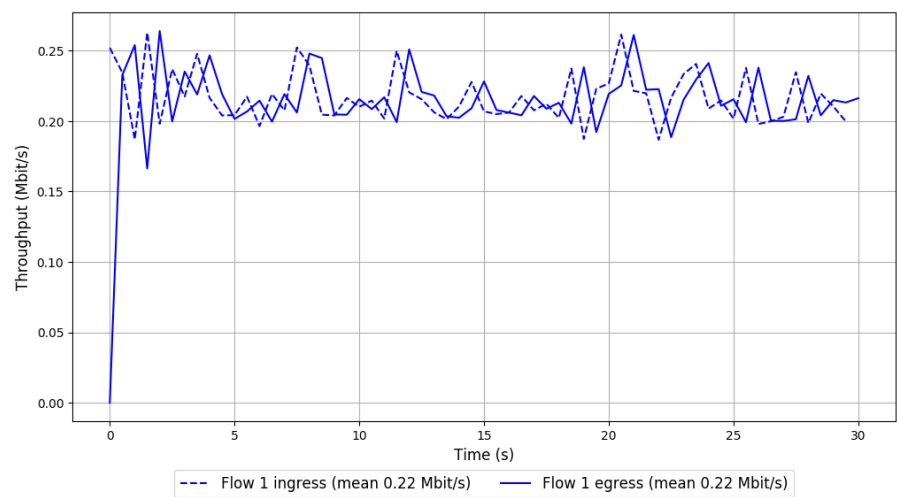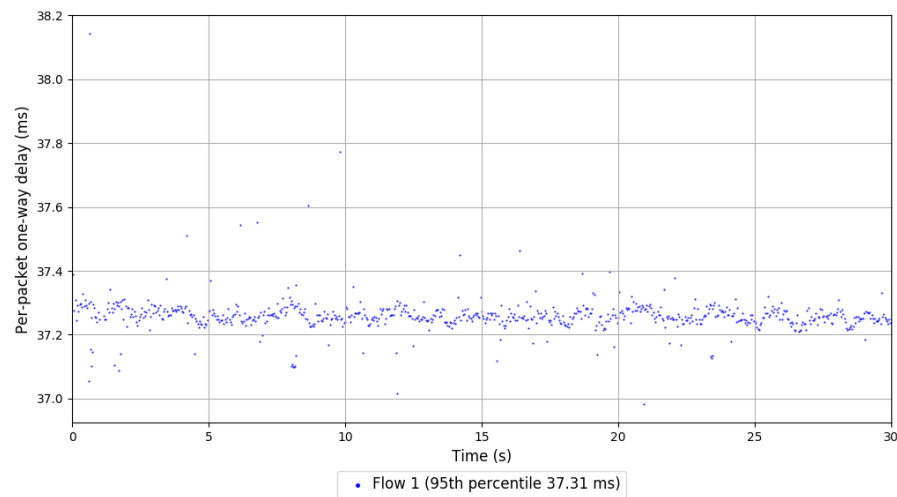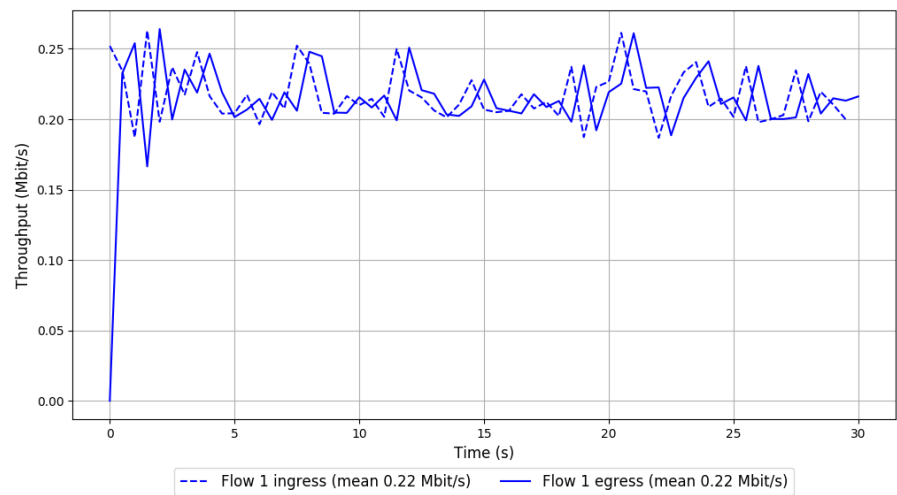
Run 4: Report of SCReAM — Data Link

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

• Flow 1 (95th percentile 37.51 ms)

```
Run 5: Statistics of SCReAM

Start at: 2018-07-09 21:46:49
End at: 2018-07-09 21:47:19
Local clock offset: -0.63 ms
Remote clock offset: 3.757 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.309 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.309 ms
Loss rate: 0.00%
```
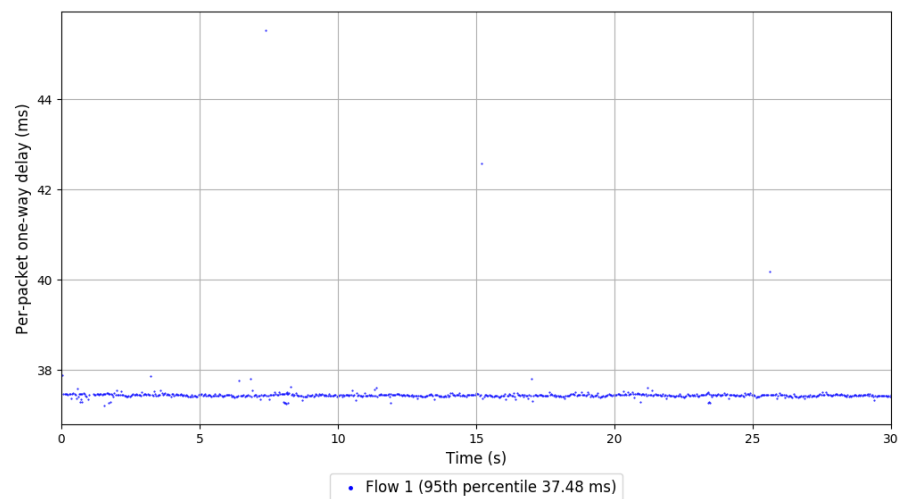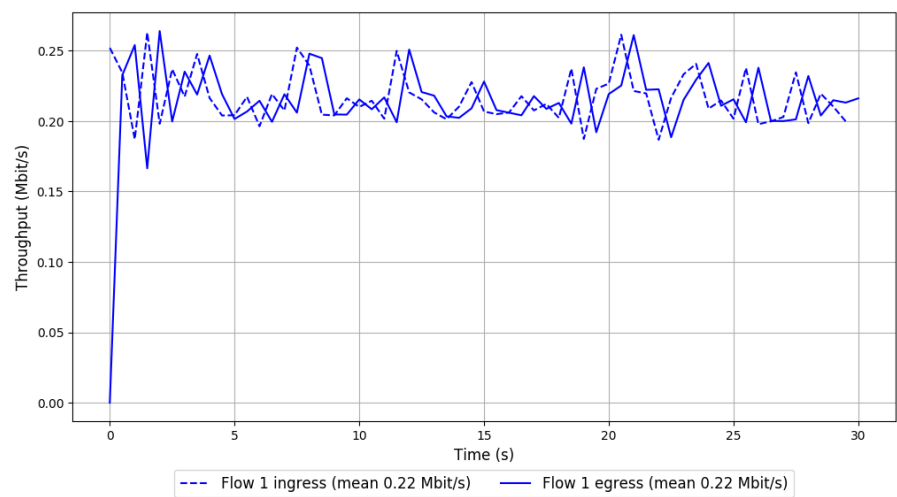
Run 5: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 37.31 ms)

```
Run 6: Statistics of SCReAM

Start at: 2018-07-09 22:10:28
End at: 2018-07-09 22:10:58
Local clock offset: -0.945 ms
Remote clock offset: 3.88 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.485 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.485 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)
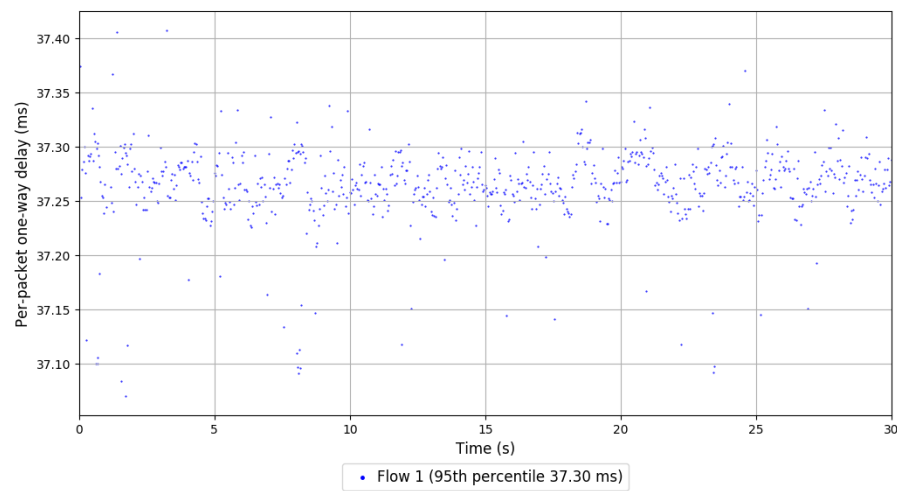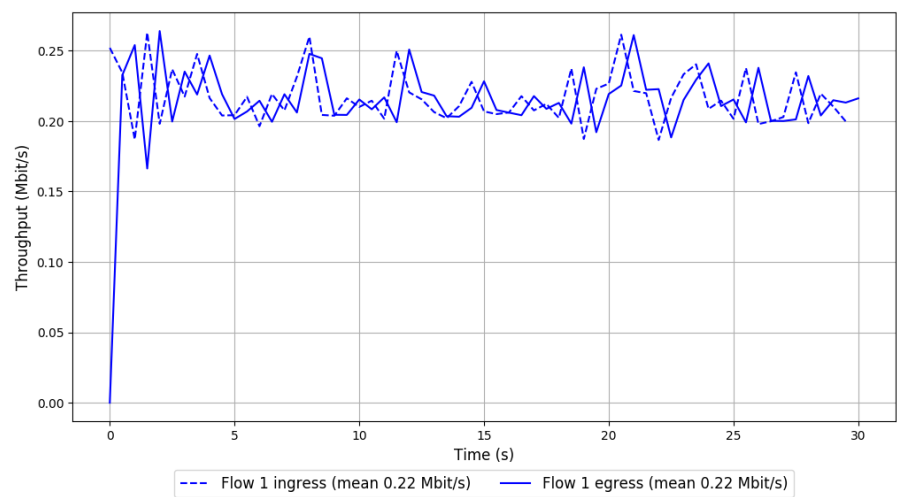

Flow 1 (95th percentile 37.48 ms)

```
Run 7: Statistics of SCReAM

Start at: 2018-07-09 22:33:36
End at: 2018-07-09 22:34:06
Local clock offset: -1.428 ms
Remote clock offset: 3.9 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.305 ms
Loss rate: 0.00%
```
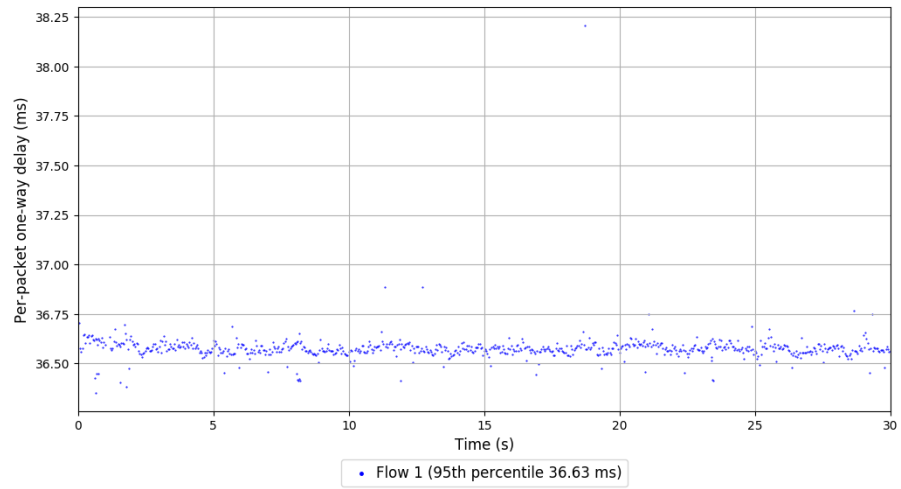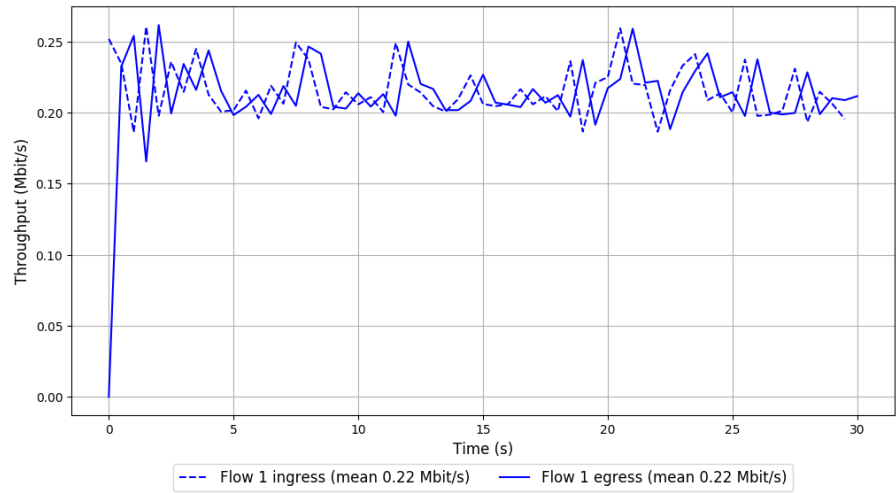
Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: 2018-07-09 22:57:58
End at: 2018-07-09 22:58:28
Local clock offset: -1.571 ms
Remote clock offset: 3.449 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.628 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.628 ms
Loss rate: 0.00%
```
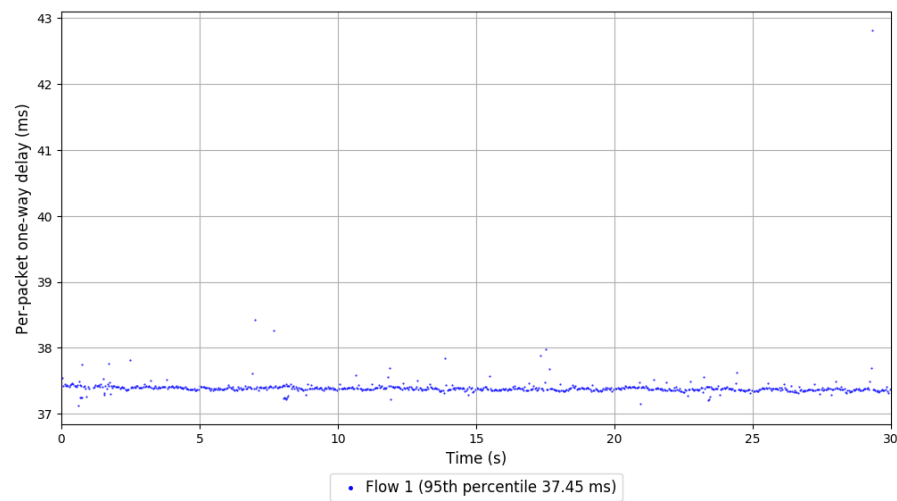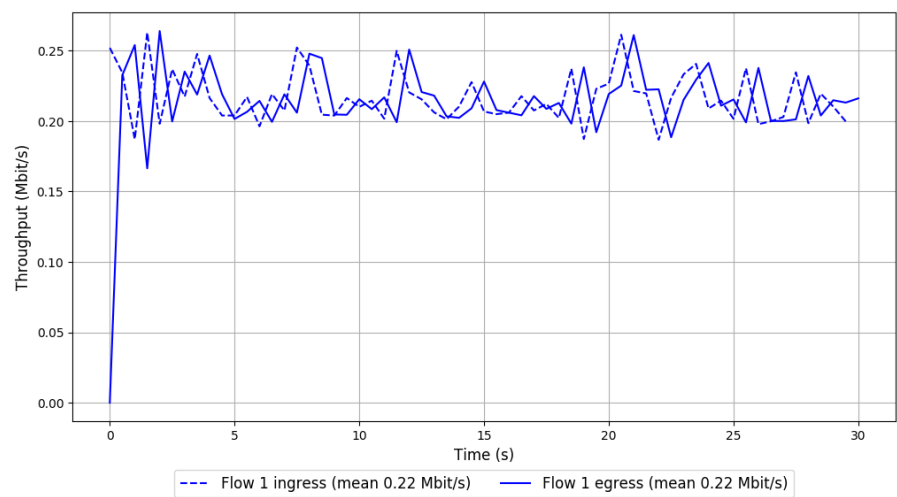
Run 8: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 36.63 ms)

219

```
Run 9: Statistics of SCReAM

Start at: 2018-07-09 23:22:13
End at: 2018-07-09 23:22:43
Local clock offset: -1.807 ms
Remote clock offset: 3.146 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.451 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 37.451 ms
Loss rate: 0.00%
```
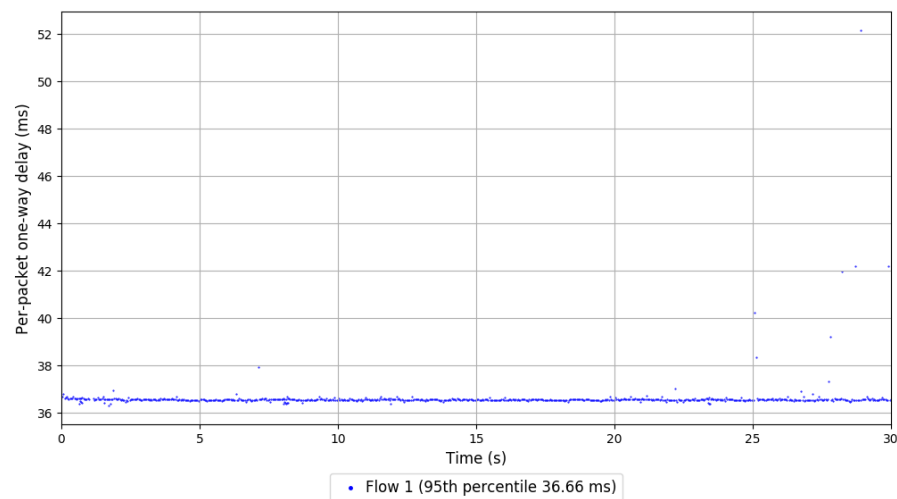
Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2018-07-09 23:46:48
End at: 2018-07-09 23:47:18
Local clock offset: -1.575 ms
Remote clock offset: 3.701 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.655 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 36.655 ms
Loss rate: 0.00%
```
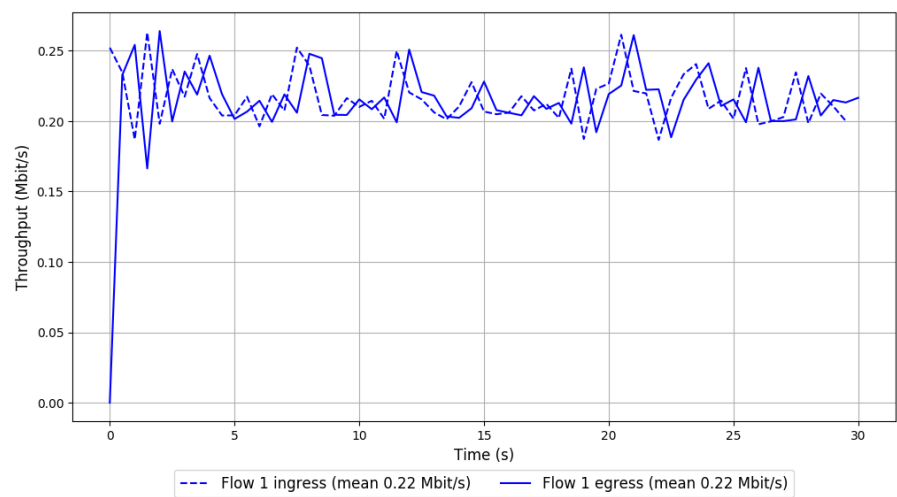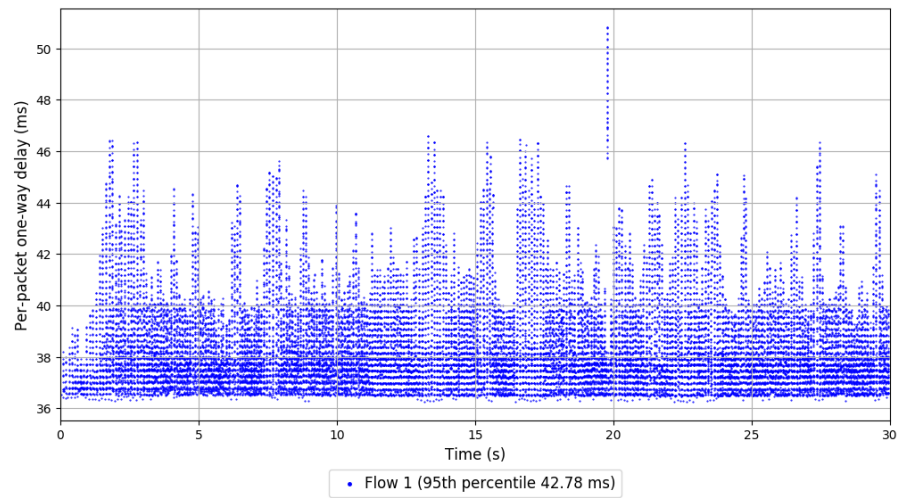
Run 10: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 36.66 ms)

```
Run 1: Statistics of Sprout

Start at: 2018-07-09 20:09:29
End at: 2018-07-09 20:09:59
Local clock offset: -2.048 ms
Remote clock offset: 5.361 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 42.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.53 Mbit/s
95th percentile per-packet one-way delay: 42.779 ms
Loss rate: 0.00%
```
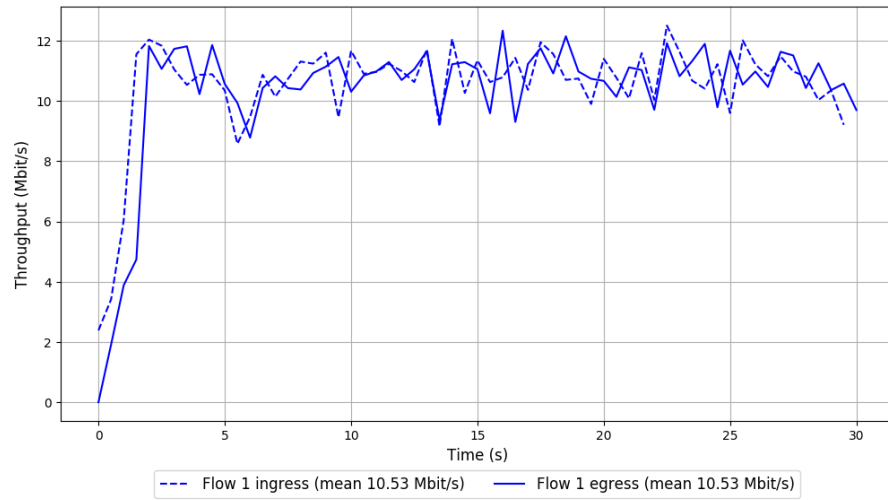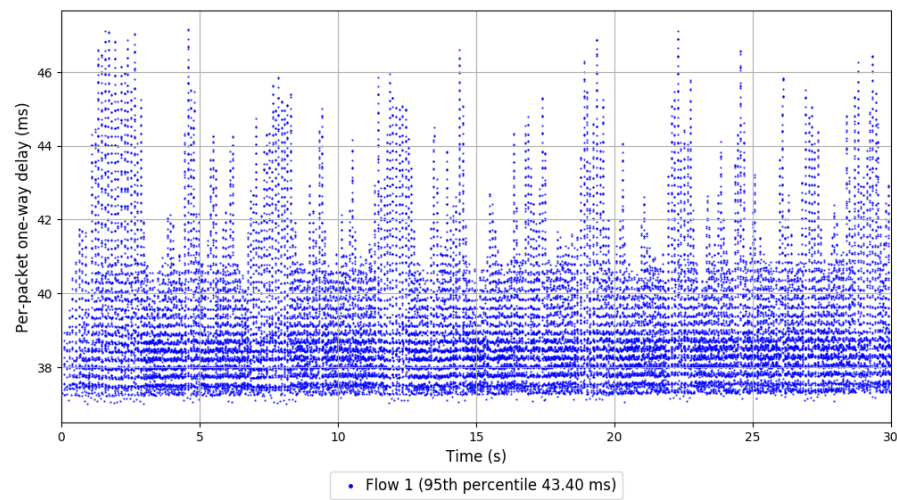
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-07-09 20:33:33
End at: 2018-07-09 20:34:03
Local clock offset: -2.618 ms
Remote clock offset: 5.293 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.43 Mbit/s
95th percentile per-packet one-way delay: 43.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.43 Mbit/s
95th percentile per-packet one-way delay: 43.401 ms
Loss rate: 0.00%
```
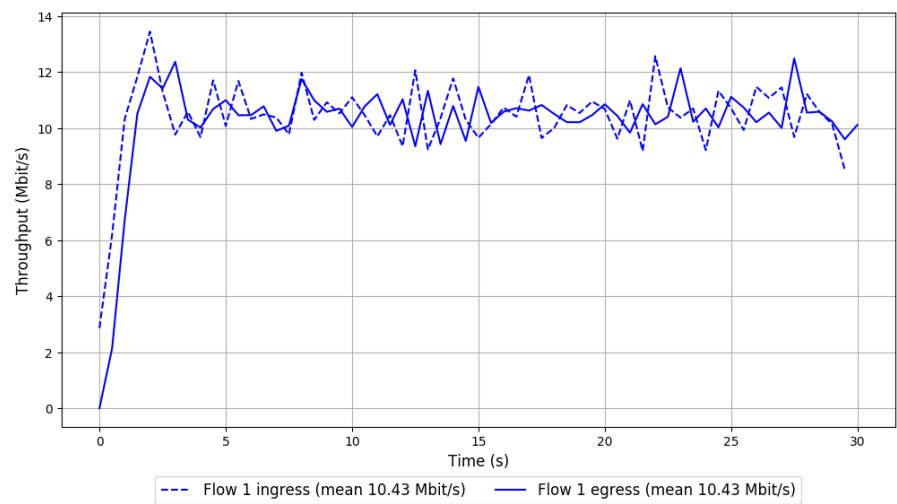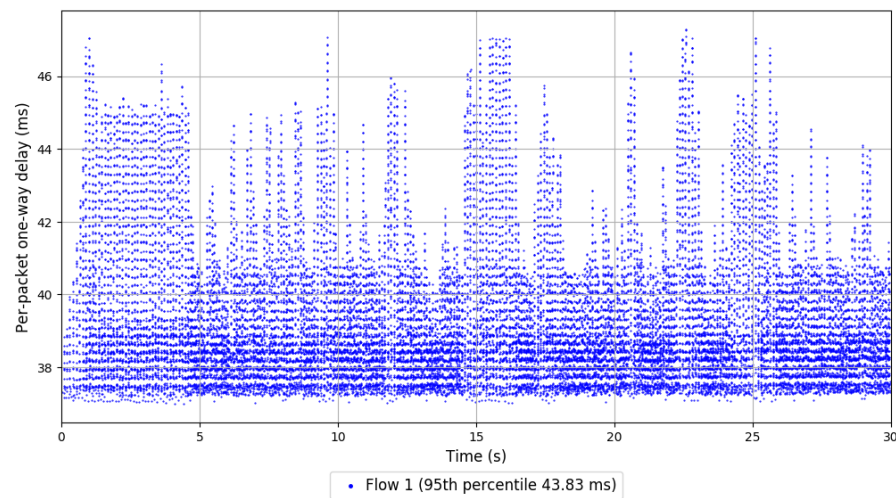
Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 10.43 Mbit/s) — — — Flow 1 egress (mean 10.43 Mbit/s)

• Flow 1 (95th percentile 43.40 ms)

```
Run 3: Statistics of Sprout

Start at: 2018-07-09 20:56:39
End at: 2018-07-09 20:57:09
Local clock offset: -2.634 ms
Remote clock offset: 3.348 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 43.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 43.828 ms
Loss rate: 0.00%
```
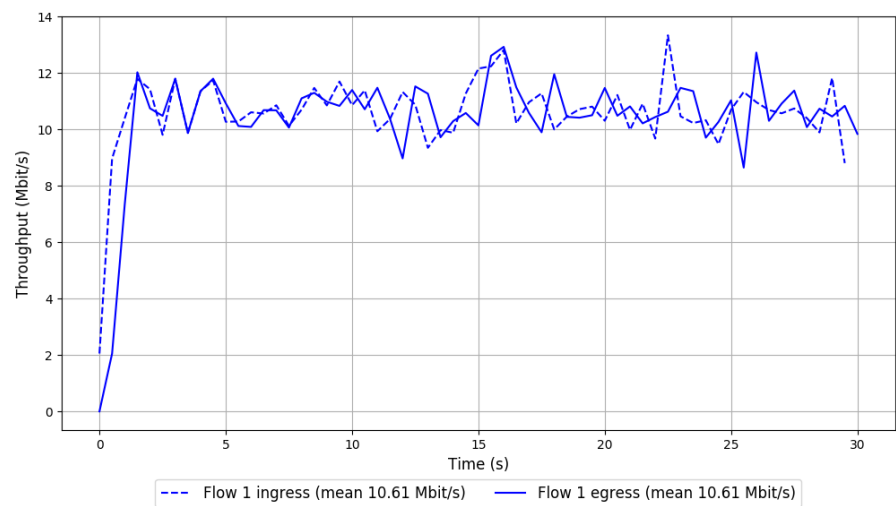
Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 10.61 Mbit/s)   Flow 1 egress (mean 10.61 Mbit/s)

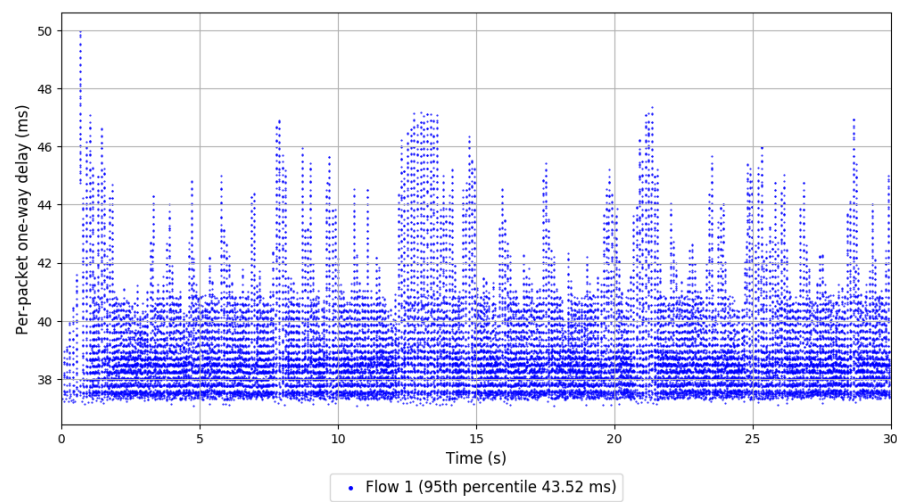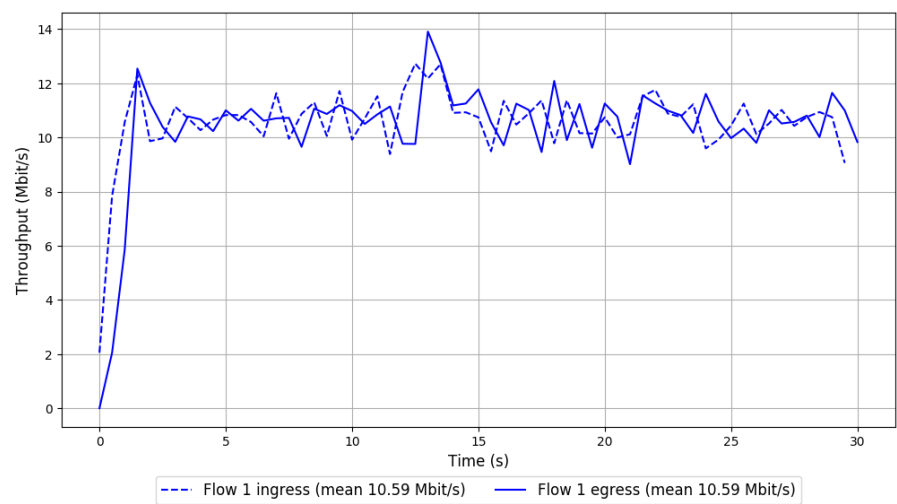Flow 1 (95th percentile 43.83 ms)

229

```
Run 4: Statistics of Sprout

Start at: 2018-07-09 21:19:31
End at: 2018-07-09 21:20:01
Local clock offset: -1.483 ms
Remote clock offset: 3.517 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 43.519 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.59 Mbit/s
95th percentile per-packet one-way delay: 43.519 ms
Loss rate: 0.00%
```
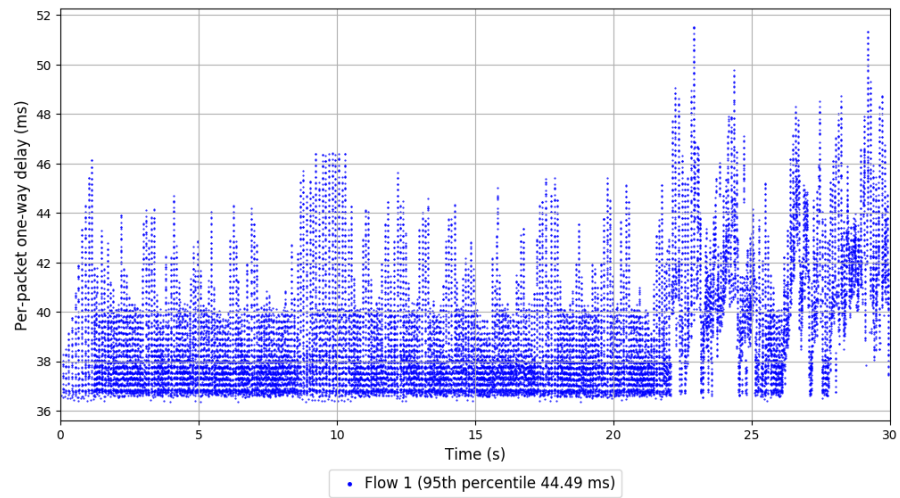
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-07-09 21:42:53
End at: 2018-07-09 21:43:23
Local clock offset: -0.767 ms
Remote clock offset: 3.633 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.49 Mbit/s
95th percentile per-packet one-way delay: 44.494 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 10.49 Mbit/s
95th percentile per-packet one-way delay: 44.494 ms
Loss rate: 0.15%
```
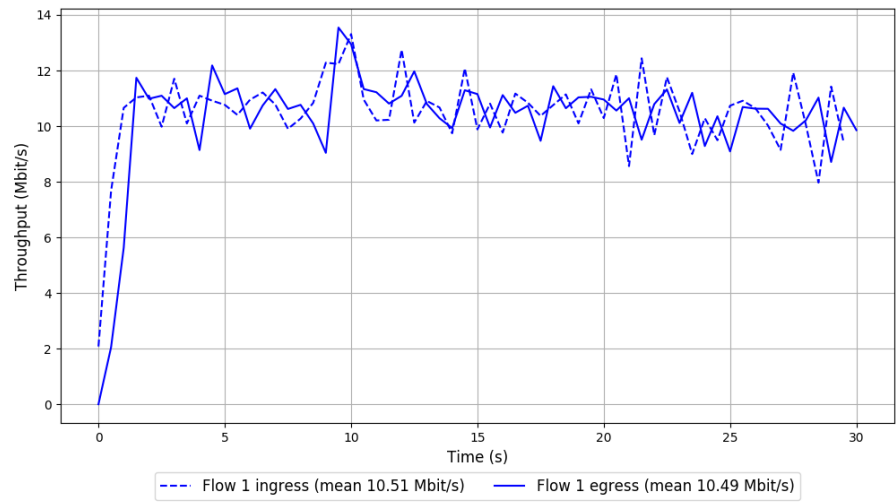
Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 10.51 Mbit/s)   Flow 1 egress (mean 10.49 Mbit/s)

Flow 1 (95th percentile 44.49 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-07-09 22:06:26
End at: 2018-07-09 22:06:56
Local clock offset: -0.801 ms
Remote clock offset: 3.9 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 42.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 42.123 ms
Loss rate: 0.00%
```
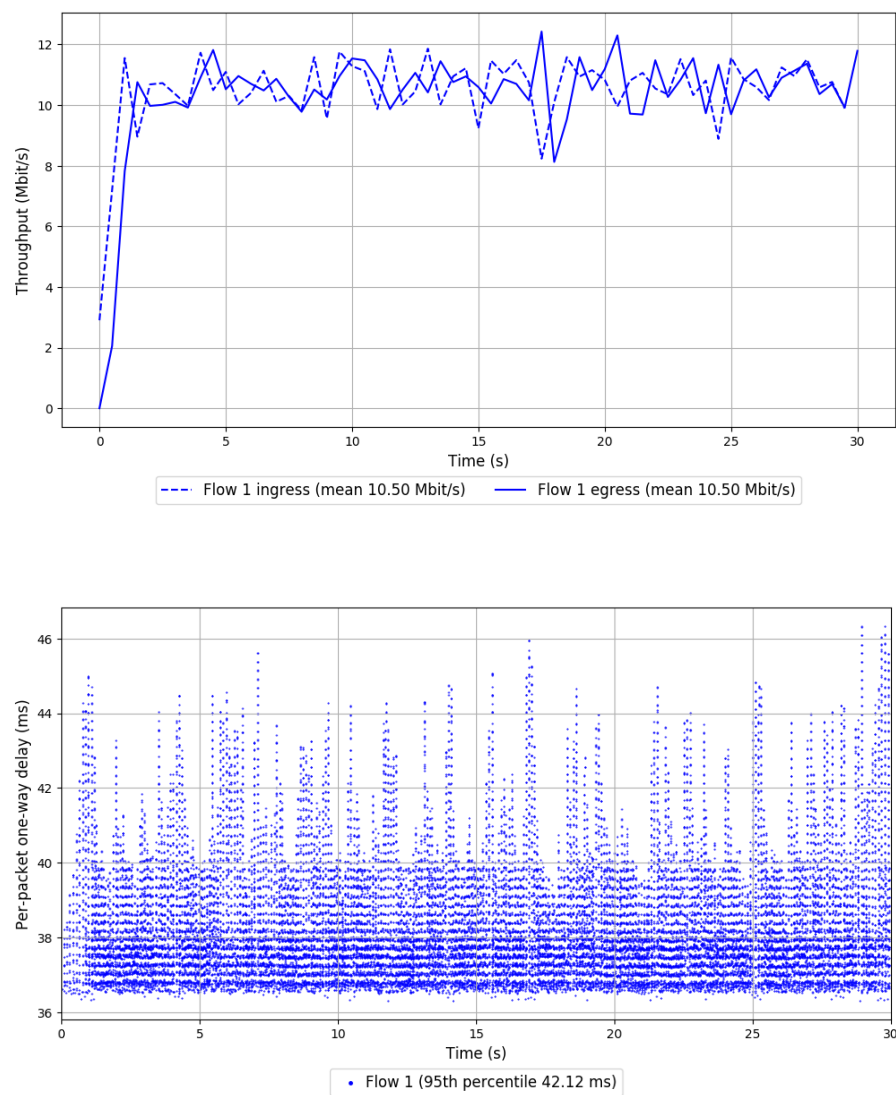
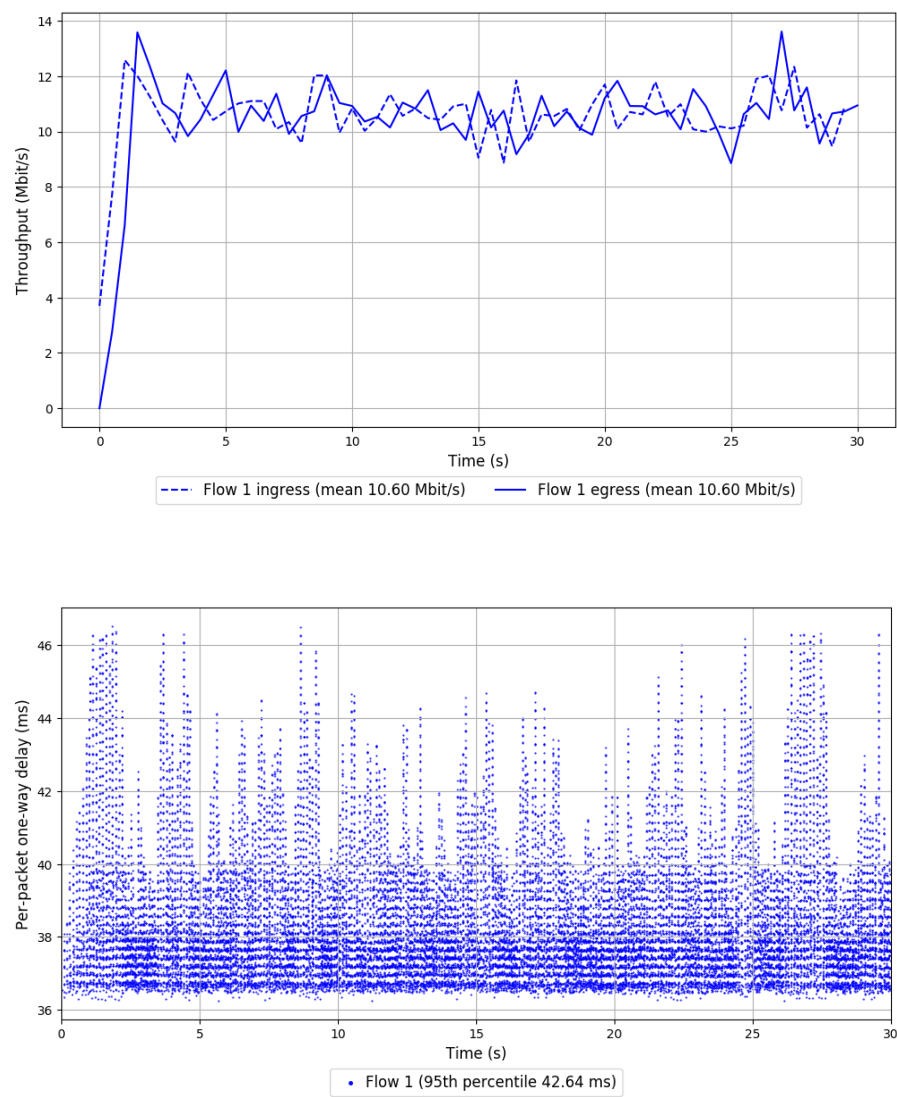Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2018-07-09 22:29:36
End at: 2018-07-09 22:30:06
Local clock offset: -1.313 ms
Remote clock offset: 3.955 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 42.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.60 Mbit/s
95th percentile per-packet one-way delay: 42.638 ms
Loss rate: 0.00%
```

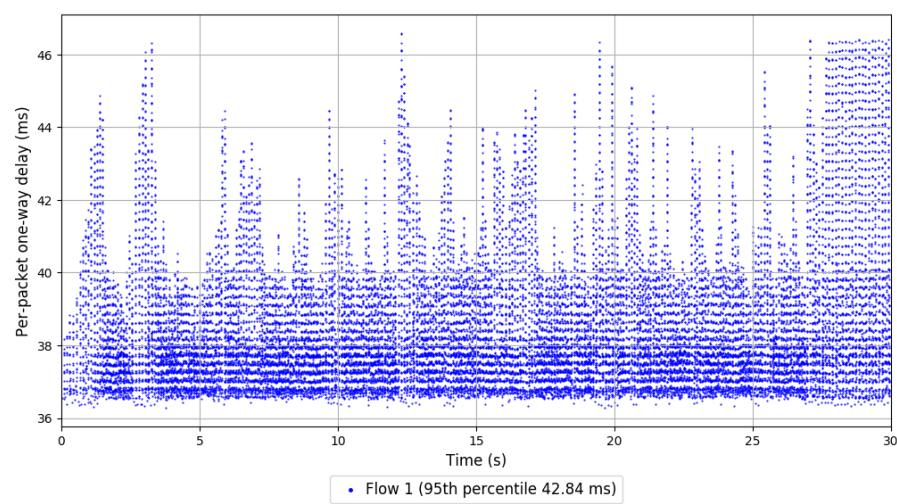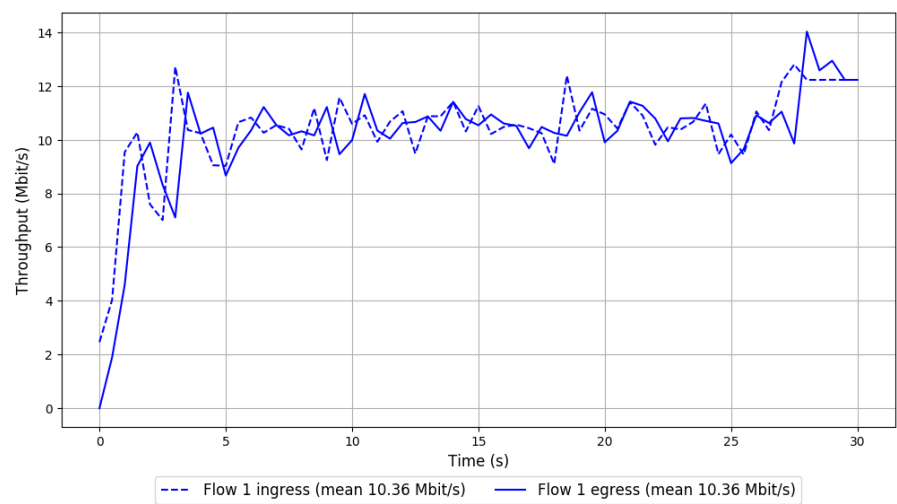## Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2018-07-09 22:53:54
End at: 2018-07-09 22:54:24
Local clock offset: -1.546 ms
Remote clock offset: 3.59 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.36 Mbit/s
95th percentile per-packet one-way delay: 42.835 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 10.36 Mbit/s
95th percentile per-packet one-way delay: 42.835 ms
Loss rate: 0.02%
```
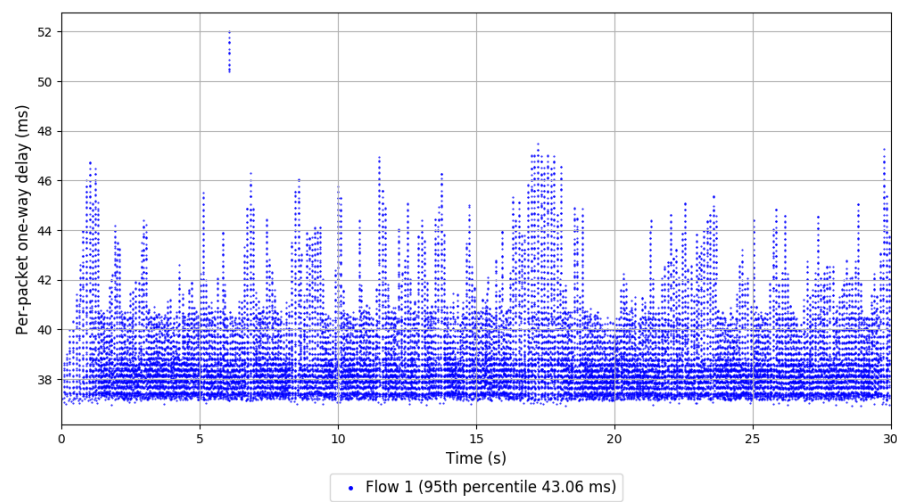
Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2018-07-09 23:18:05
End at: 2018-07-09 23:18:35
Local clock offset: -1.706 ms
Remote clock offset: 3.14 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.44 Mbit/s
95th percentile per-packet one-way delay: 43.064 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 10.44 Mbit/s
95th percentile per-packet one-way delay: 43.064 ms
Loss rate: 0.05%
```
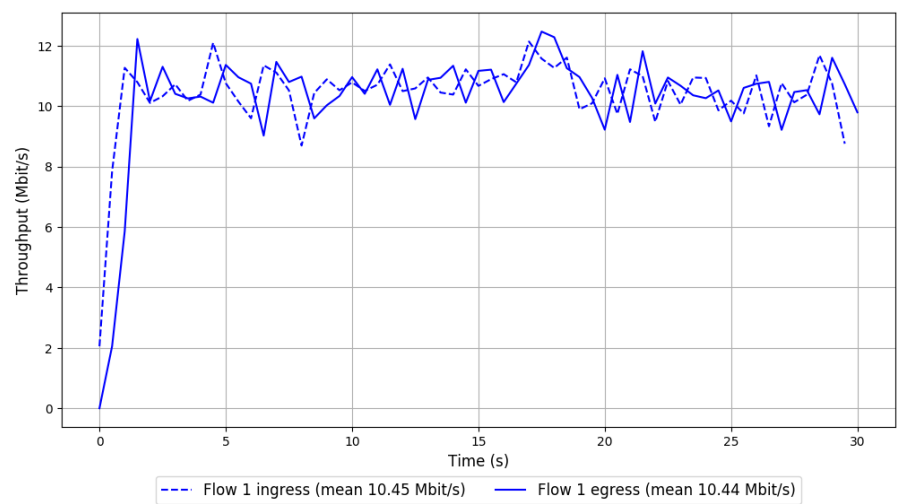
Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2018-07-09 23:42:34
End at: 2018-07-09 23:43:05
Local clock offset: -1.625 ms
Remote clock offset: 3.828 ms


# Below is generated by plot.py at 2018-07-10 00:13:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 42.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 42.916 ms
Loss rate: 0.00%
```
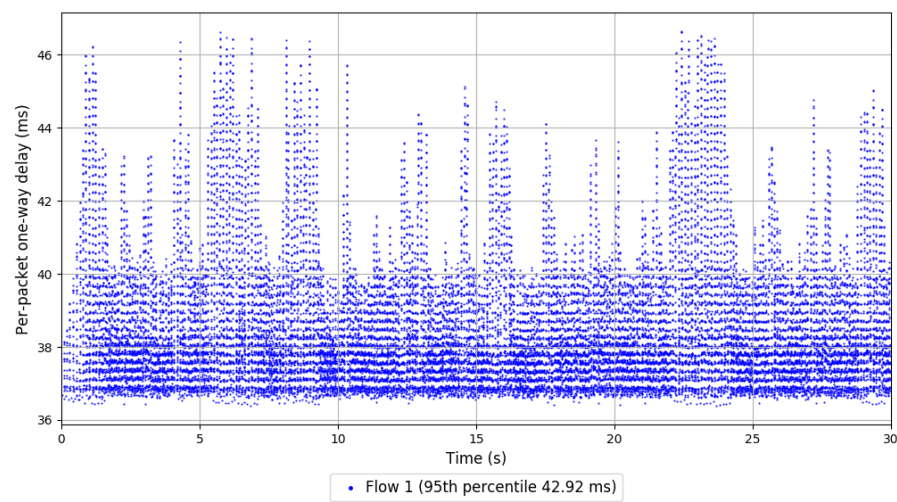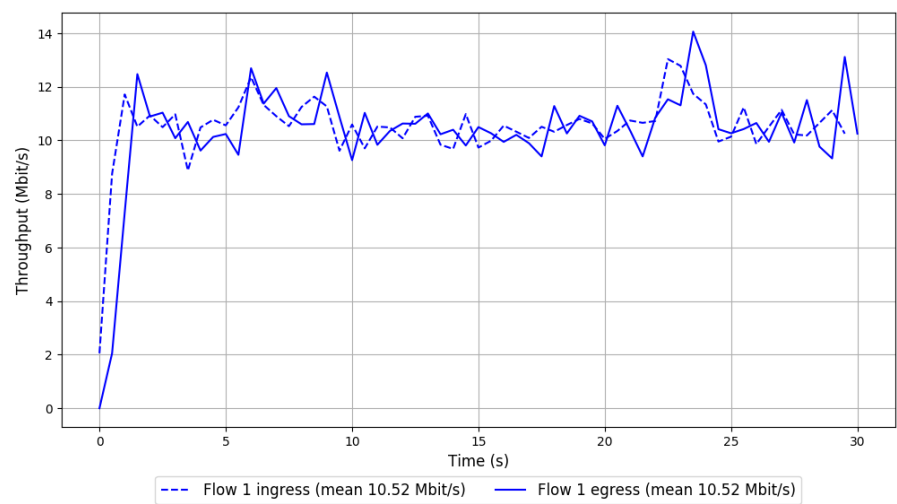
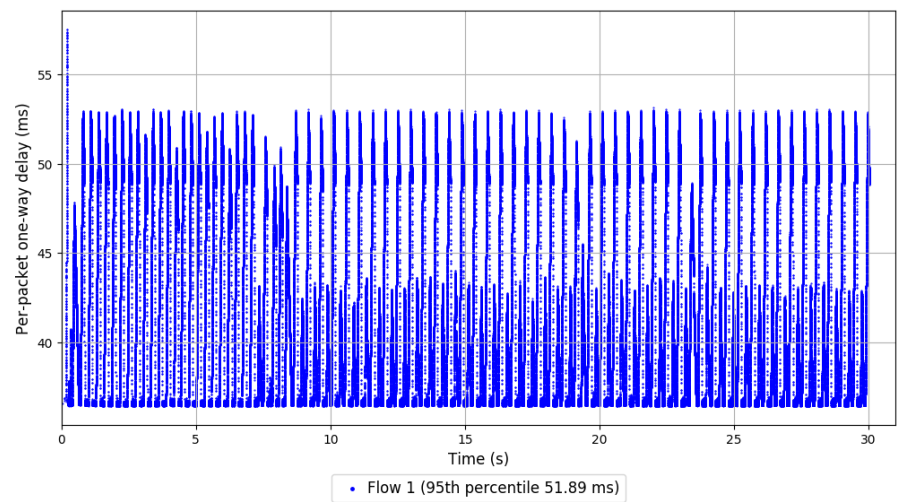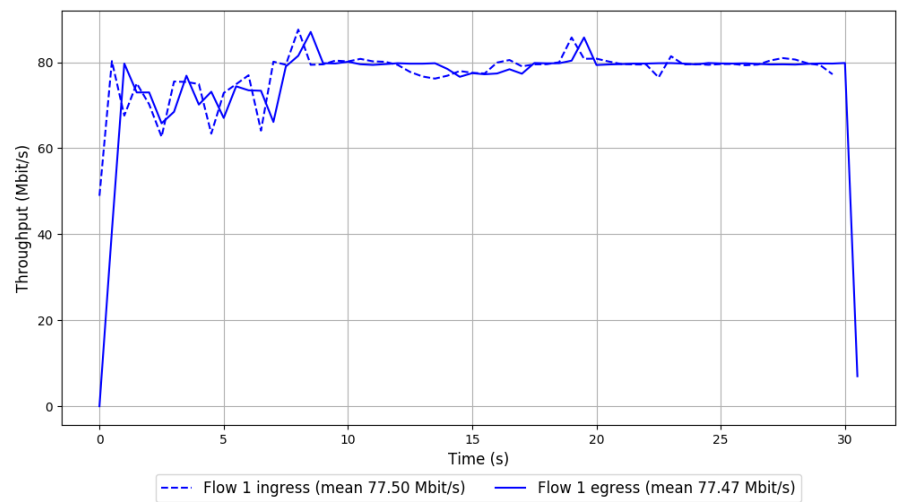## Run 10: Report of Sprout — Data Link

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

Start at: 2018-07-09 20:06:46
End at: 2018-07-09 20:07:16
Local clock offset: -2.036 ms
Remote clock offset: 5.253 ms


# Below is generated by plot.py at 2018-07-10 00:15:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.47 Mbit/s
95th percentile per-packet one-way delay: 51.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.47 Mbit/s
95th percentile per-packet one-way delay: 51.890 ms
Loss rate: 0.00%
```

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

Flow 1 ingress (mean 77.50 Mbit/s)   Flow 1 egress (mean 77.47 Mbit/s)

Flow 1 (95th percentile 51.89 ms)

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

Start at: 2018-07-09 20:30:32
End at: 2018-07-09 20:31:02
Local clock offset: -2.382 ms
Remote clock offset: 5.814 ms


# Below is generated by plot.py at 2018-07-10 00:15:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.41 Mbit/s
95th percentile per-packet one-way delay: 51.355 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.41 Mbit/s
95th percentile per-packet one-way delay: 51.355 ms
Loss rate: 0.00%
```
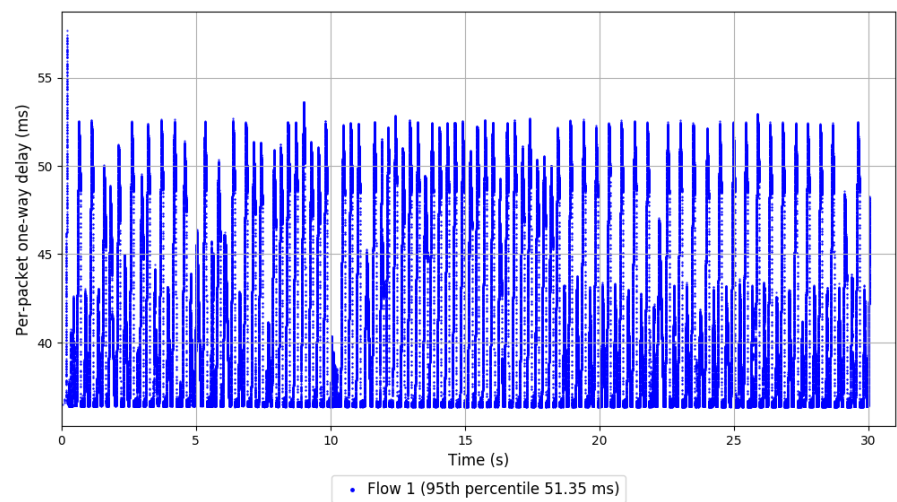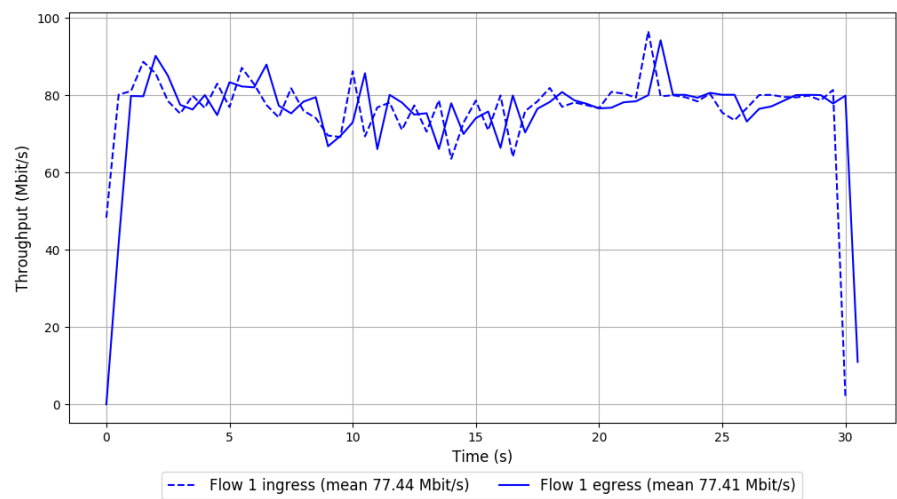
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 77.44 Mbit/s)   Flow 1 egress (mean 77.41 Mbit/s)

Flow 1 (95th percentile 51.35 ms)

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

Start at: 2018-07-09 20:53:47
End at: 2018-07-09 20:54:17
Local clock offset: -2.827 ms
Remote clock offset: 3.469 ms


# Below is generated by plot.py at 2018-07-10 00:15:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 52.465 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 77.46 Mbit/s
95th percentile per-packet one-way delay: 52.465 ms
Loss rate: 0.07%
```
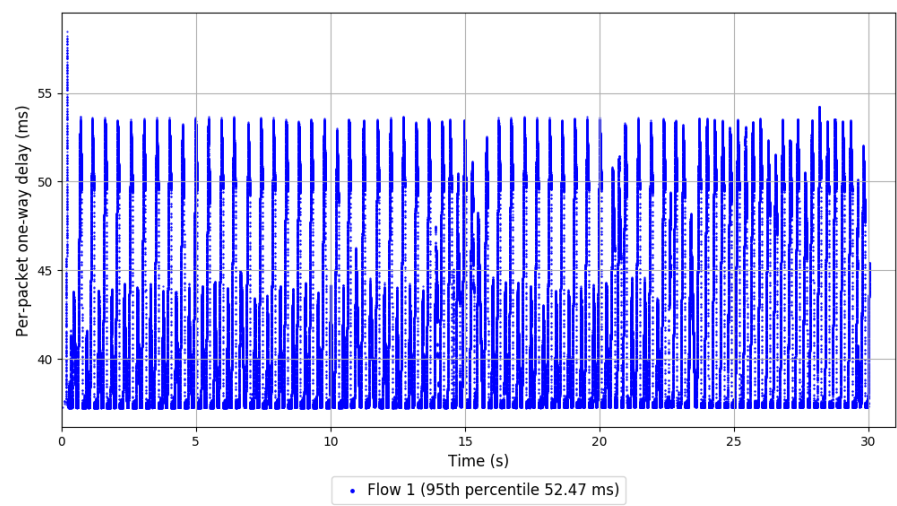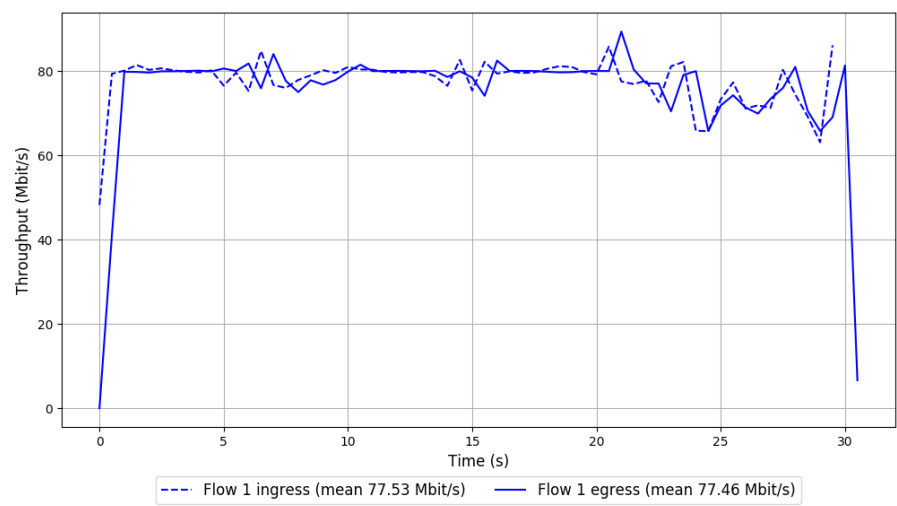
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 77.53 Mbit/s) --- Flow 1 egress (mean 77.46 Mbit/s)

• Flow 1 (95th percentile 52.47 ms)

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

Start at: 2018-07-09 21:16:50
End at: 2018-07-09 21:17:20
Local clock offset: -1.655 ms
Remote clock offset: 3.452 ms


# Below is generated by plot.py at 2018-07-10 00:15:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.27 Mbit/s
95th percentile per-packet one-way delay: 51.862 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.27 Mbit/s
95th percentile per-packet one-way delay: 51.862 ms
Loss rate: 0.01%
```
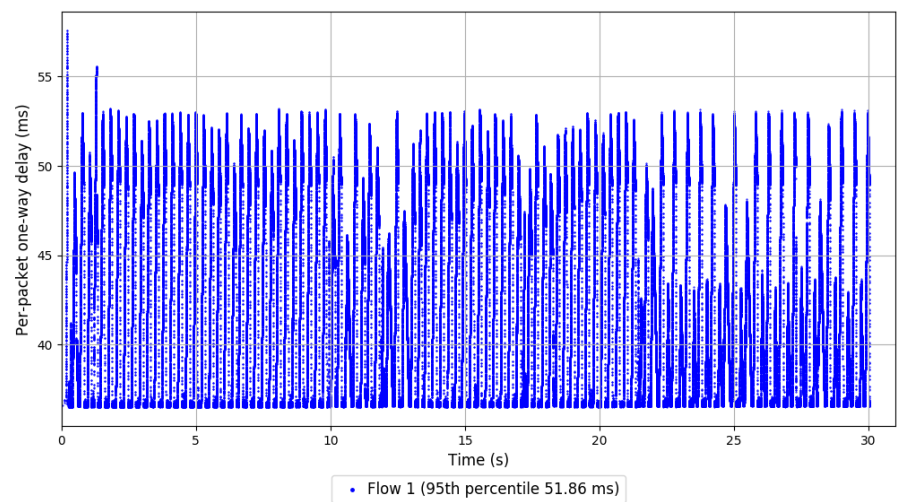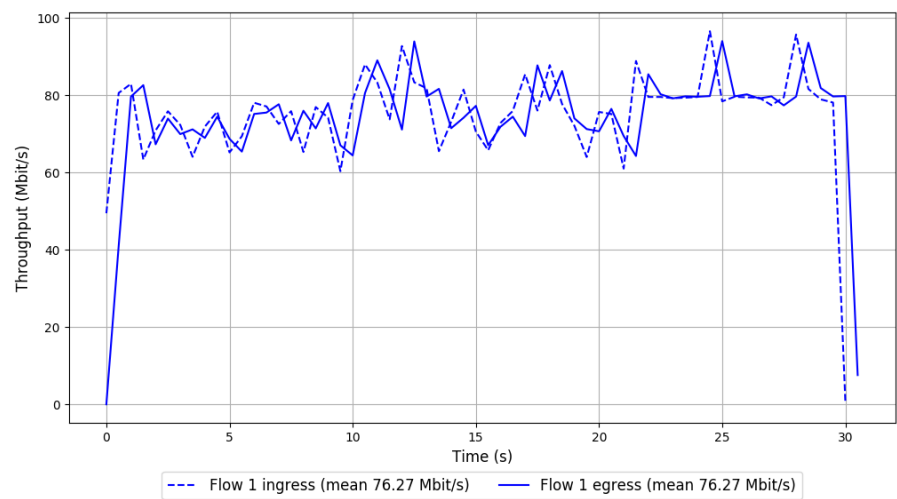
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 76.27 Mbit/s) — — — Flow 1 egress (mean 76.27 Mbit/s)

· Flow 1 (95th percentile 51.86 ms)

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

Start at: 2018-07-09 21:40:01
End at: 2018-07-09 21:40:31
Local clock offset: -0.707 ms
Remote clock offset: 3.56 ms


# Below is generated by plot.py at 2018-07-10 00:15:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.04 Mbit/s
95th percentile per-packet one-way delay: 52.473 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.04 Mbit/s
95th percentile per-packet one-way delay: 52.473 ms
Loss rate: 0.00%
```
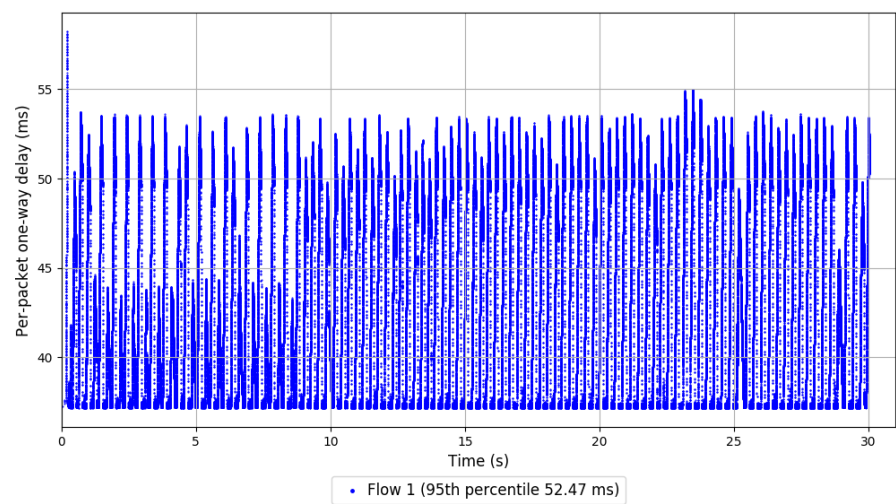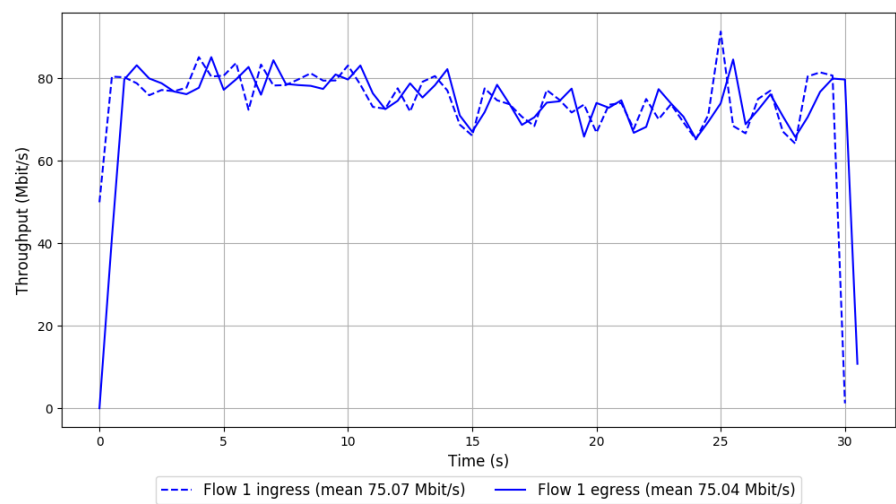
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 75.07 Mbit/s)   Flow 1 egress (mean 75.04 Mbit/s)

Flow 1 (95th percentile 52.47 ms)

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

Start at: 2018-07-09 22:03:35
End at: 2018-07-09 22:04:05
Local clock offset: -0.768 ms
Remote clock offset: 3.928 ms


# Below is generated by plot.py at 2018-07-10 00:15:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.74 Mbit/s
95th percentile per-packet one-way delay: 51.630 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 78.74 Mbit/s
95th percentile per-packet one-way delay: 51.630 ms
Loss rate: 0.01%
```
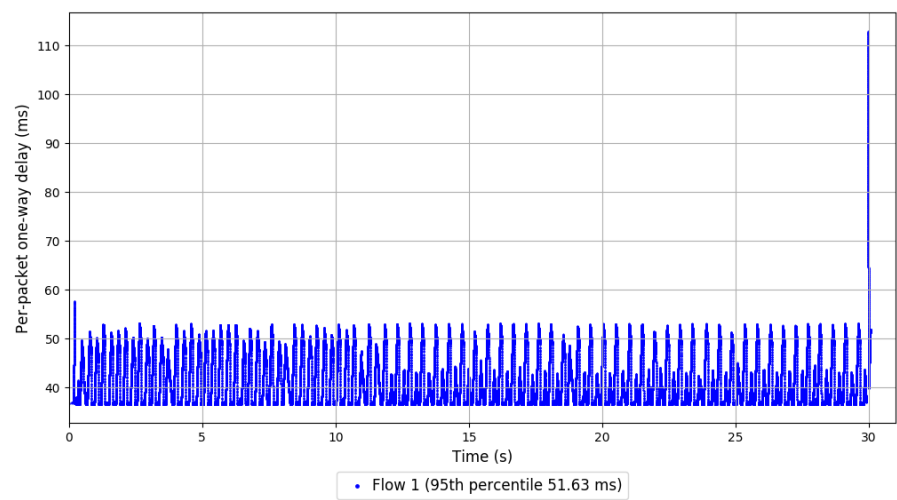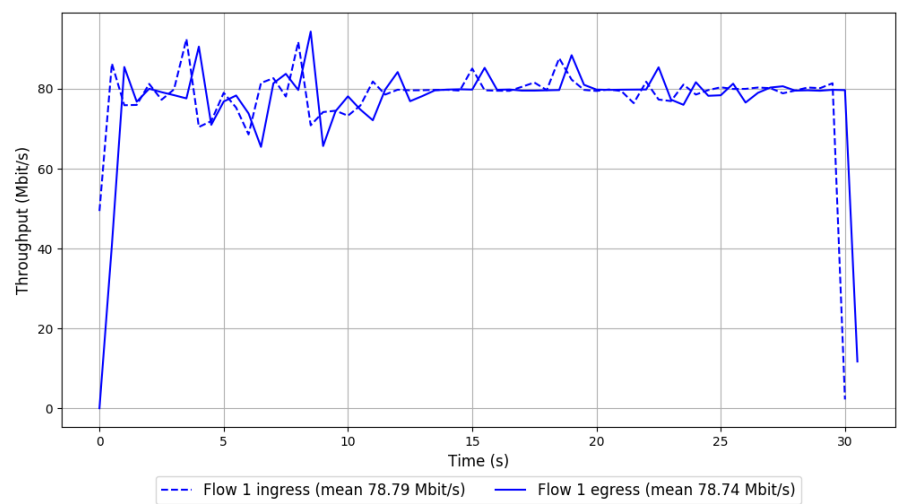
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 78.79 Mbit/s)   Flow 1 egress (mean 78.74 Mbit/s)

Flow 1 (95th percentile 51.63 ms)

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

Start at: 2018-07-09 22:26:48
End at: 2018-07-09 22:27:18
Local clock offset: -1.24 ms
Remote clock offset: 3.977 ms


# Below is generated by plot.py at 2018-07-10 00:15:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 51.845 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 51.845 ms
Loss rate: 0.07%
```
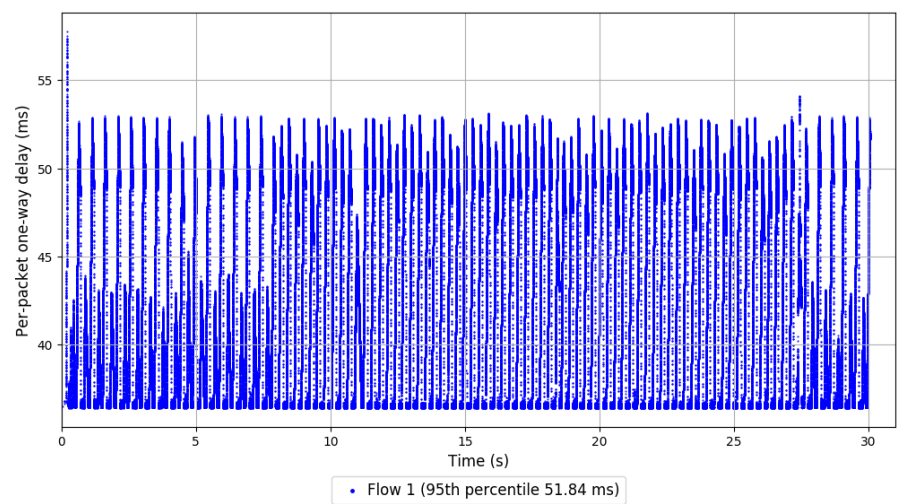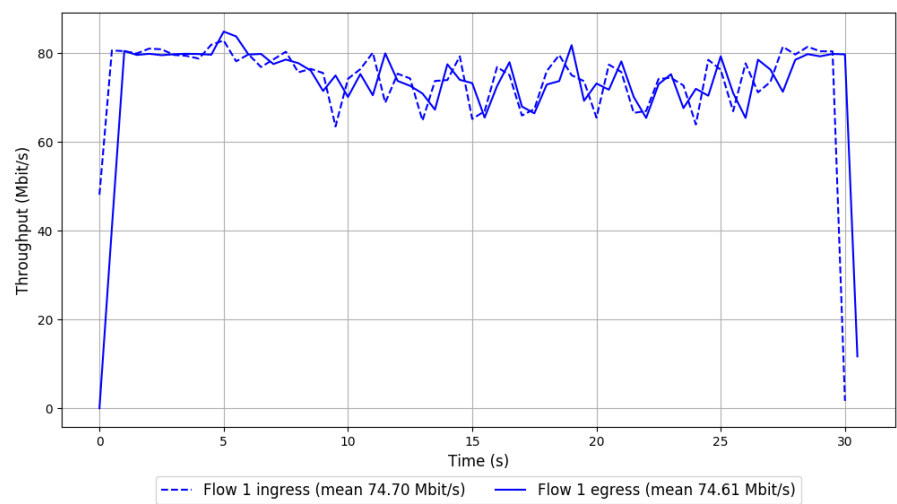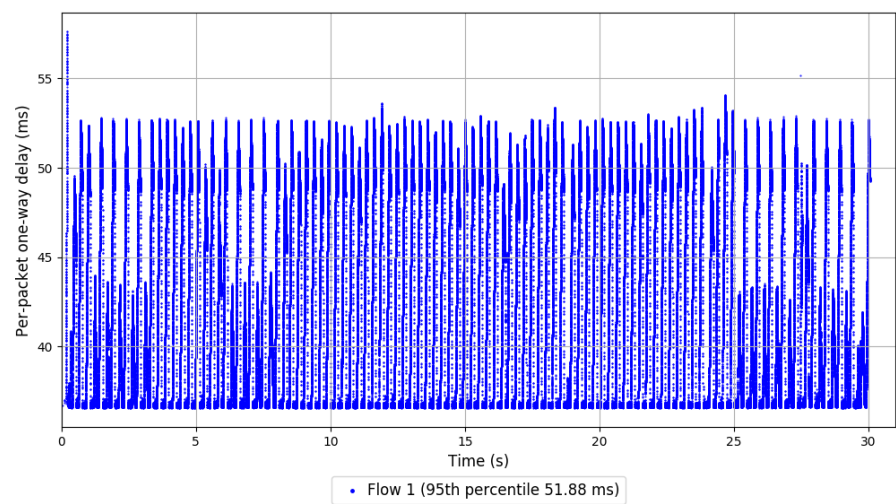
Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 74.70 Mbit/s)   Flow 1 egress (mean 74.61 Mbit/s)

Flow 1 (95th percentile 51.84 ms)

257

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

Start at: 2018-07-09 22:50:51
End at: 2018-07-09 22:51:21
Local clock offset: -1.522 ms
Remote clock offset: 3.747 ms


# Below is generated by plot.py at 2018-07-10 00:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 51.882 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 51.882 ms
Loss rate: 0.00%
```
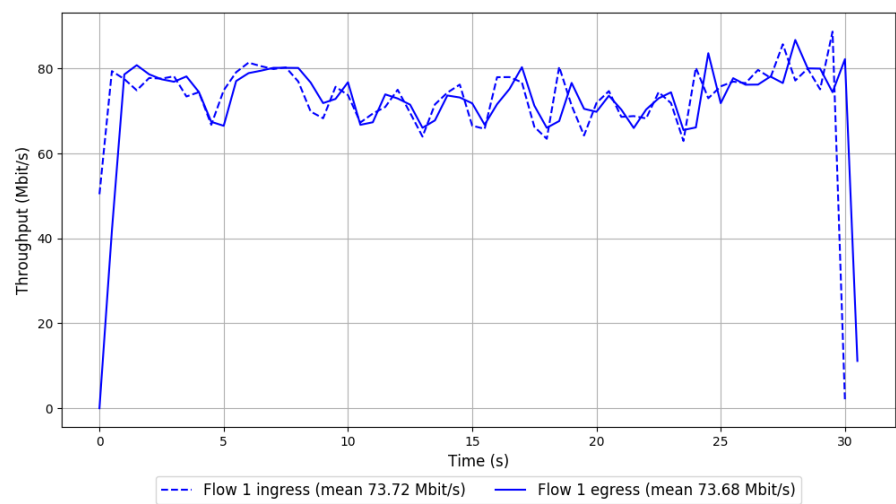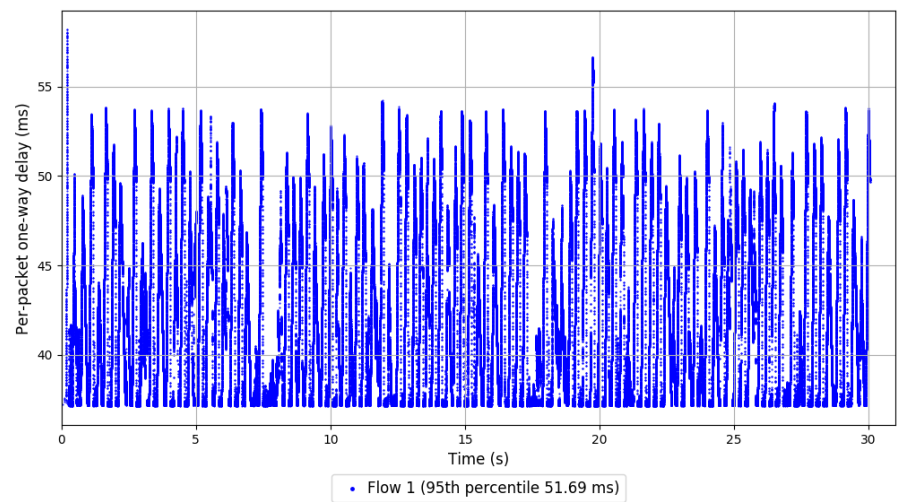
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 73.72 Mbit/s) — Flow 1 egress (mean 73.68 Mbit/s)

• Flow 1 (95th percentile 51.88 ms)

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

Start at: 2018-07-09 23:15:00
End at: 2018-07-09 23:15:30
Local clock offset: -1.686 ms
Remote clock offset: 3.198 ms


# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 51.686 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 51.686 ms
Loss rate: 0.09%
```
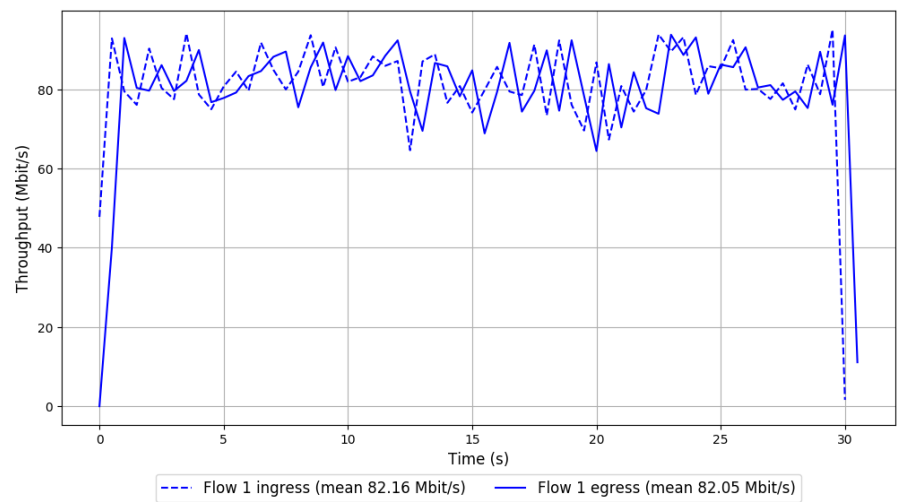
Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 82.16 Mbit/s)   Flow 1 egress (mean 82.05 Mbit/s)
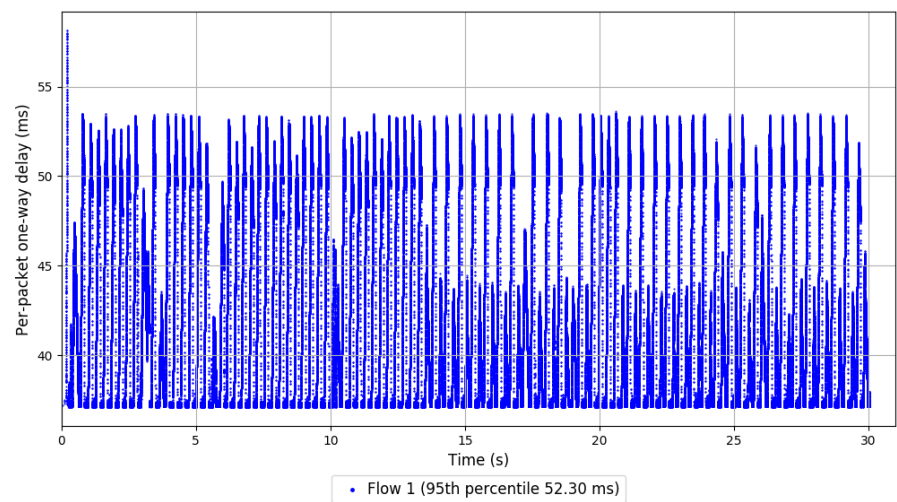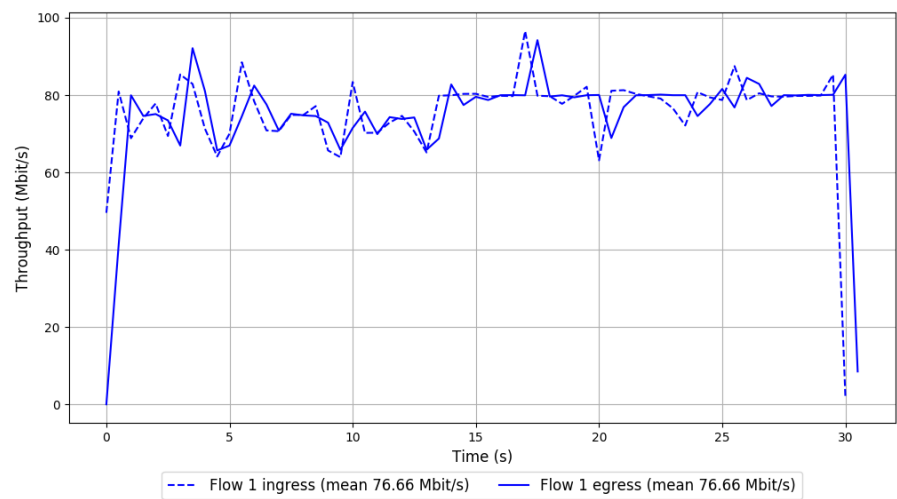

• Flow 1 (95th percentile 51.69 ms)

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

Start at: 2018-07-09 23:39:35
End at: 2018-07-09 23:40:05
Local clock offset: -1.617 ms
Remote clock offset: 3.694 ms


# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.66 Mbit/s
95th percentile per-packet one-way delay: 52.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.66 Mbit/s
95th percentile per-packet one-way delay: 52.304 ms
Loss rate: 0.00%
```
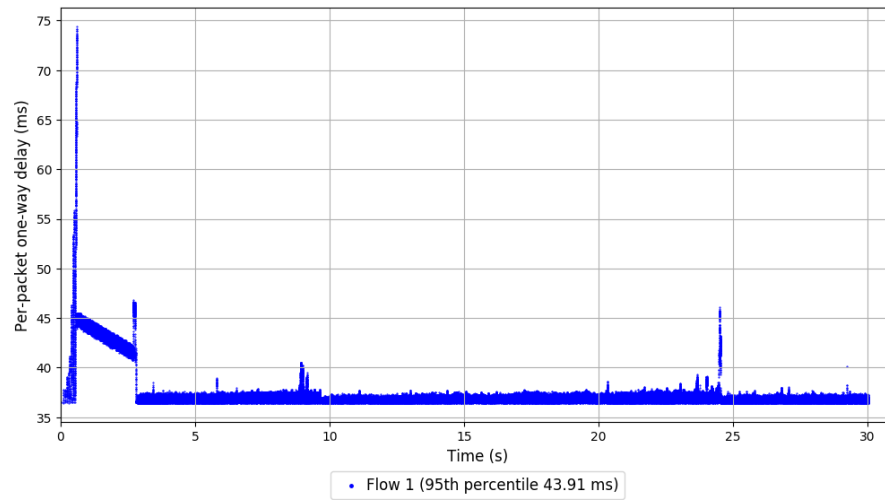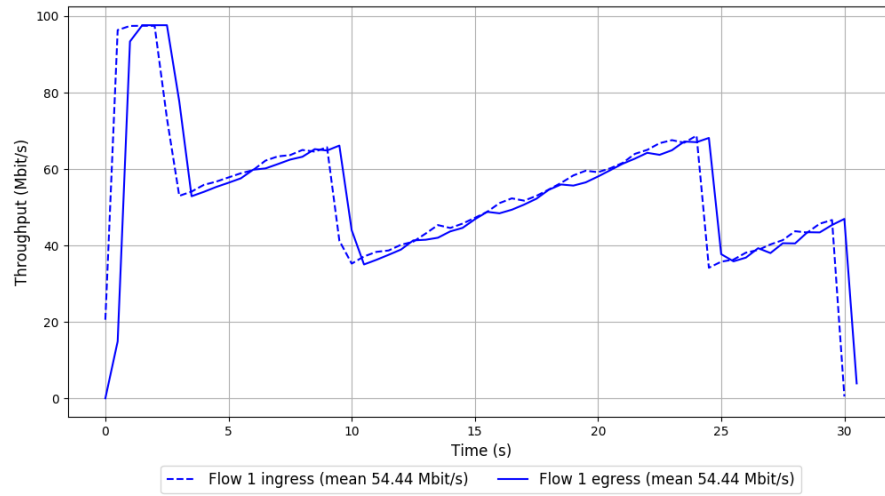
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 76.66 Mbit/s)   Flow 1 egress (mean 76.66 Mbit/s)

Flow 1 (95th percentile 52.30 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2018-07-09 20:10:49
End at: 2018-07-09 20:11:19
Local clock offset: -2.073 ms
Remote clock offset: 5.348 ms

# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.44 Mbit/s
95th percentile per-packet one-way delay: 43.912 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 54.44 Mbit/s
95th percentile per-packet one-way delay: 43.912 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 54.44 Mbit/s) —— Flow 1 egress (mean 54.44 Mbit/s)

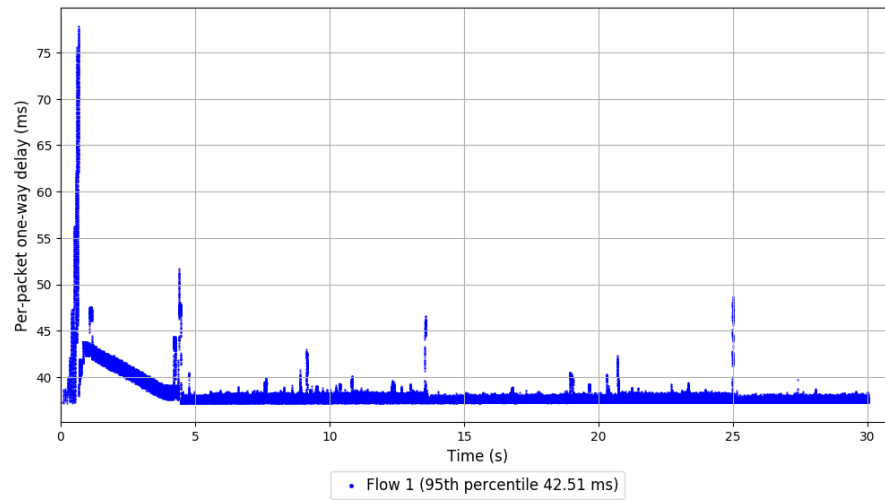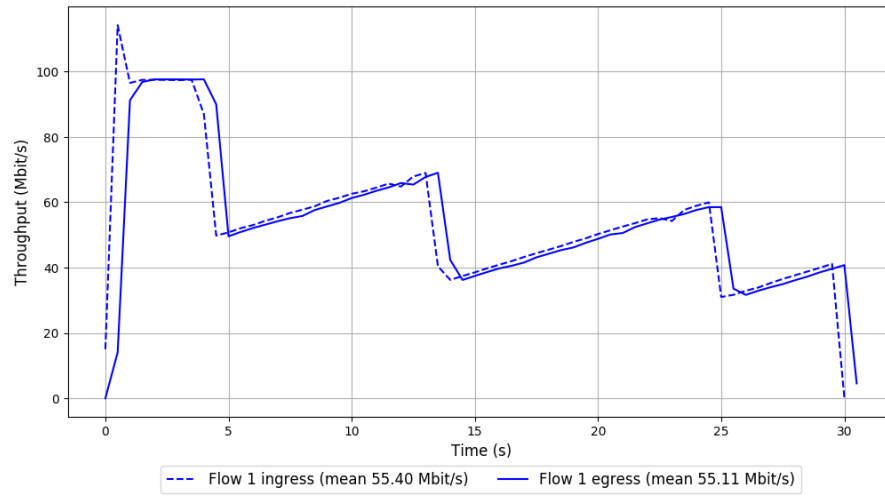Flow 1 (95th percentile 43.91 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2018-07-09 20:34:50
End at: 2018-07-09 20:35:20
Local clock offset: -2.605 ms
Remote clock offset: 5.111 ms

# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.11 Mbit/s
95th percentile per-packet one-way delay: 42.510 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 55.11 Mbit/s
95th percentile per-packet one-way delay: 42.510 ms
Loss rate: 0.51%
```

Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-07-09 20:58:00
End at: 2018-07-09 20:58:30
Local clock offset: -2.562 ms
Remote clock offset: 3.342 ms


# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.57 Mbit/s
95th percentile per-packet one-way delay: 42.690 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 62.57 Mbit/s
95th percentile per-packet one-way delay: 42.690 ms
Loss rate: 0.44%
```
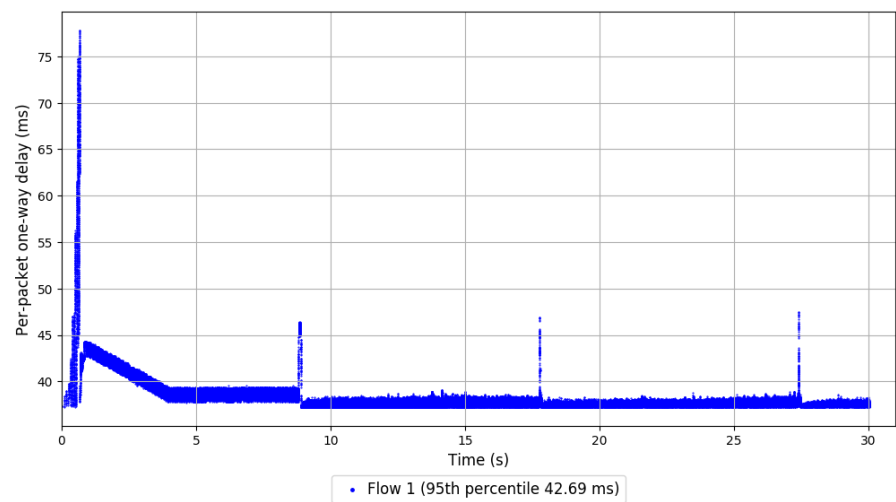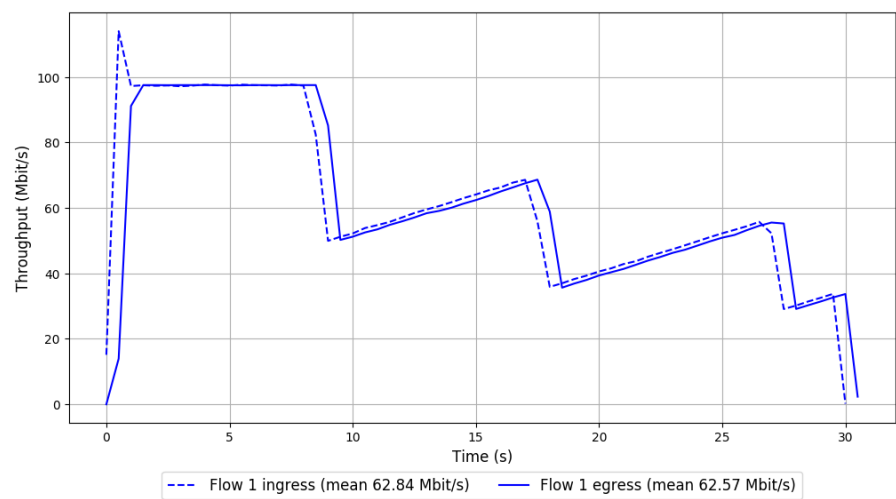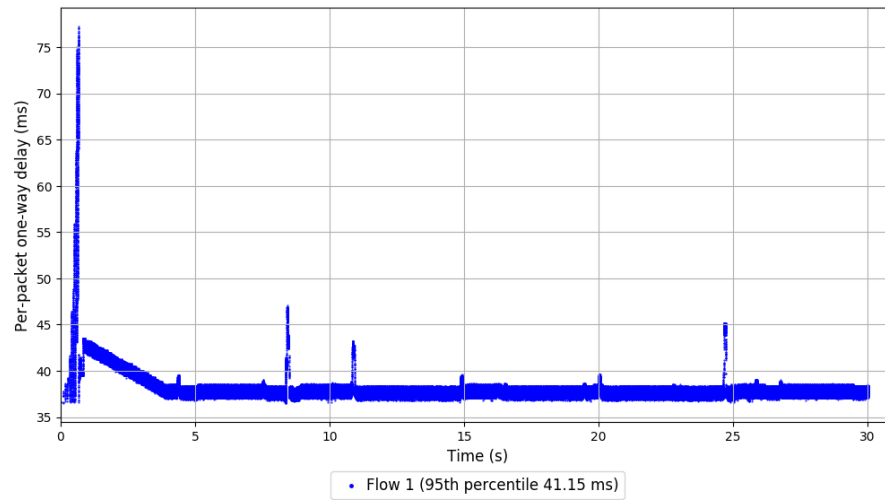
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 62.84 Mbit/s)   Flow 1 egress (mean 62.57 Mbit/s)

Flow 1 (95th percentile 42.69 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2018-07-09 21:20:47
End at: 2018-07-09 21:21:17
Local clock offset: -1.325 ms
Remote clock offset: 3.568 ms


# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 41.153 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.07 Mbit/s
95th percentile per-packet one-way delay: 41.153 ms
Loss rate: 0.27%
```
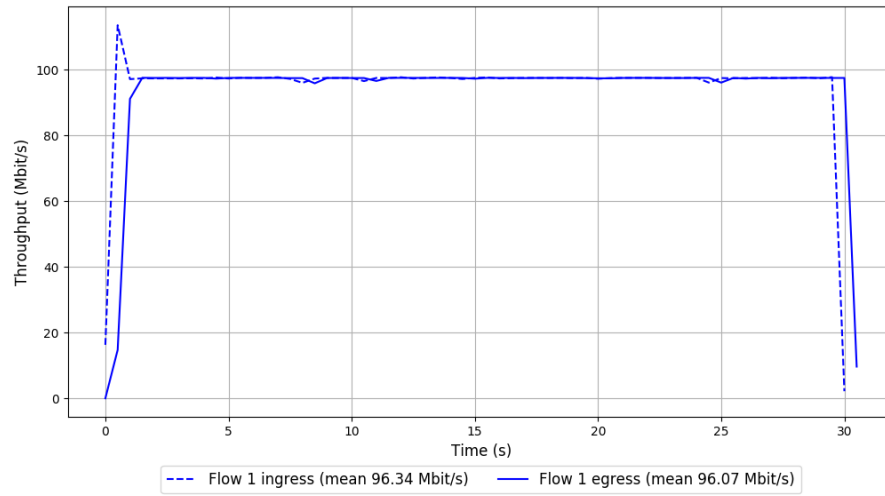
Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2018-07-09 21:44:10
End at: 2018-07-09 21:44:40
Local clock offset: -0.688 ms
Remote clock offset: 3.675 ms


# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 42.474 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 42.474 ms
Loss rate: 0.27%
```
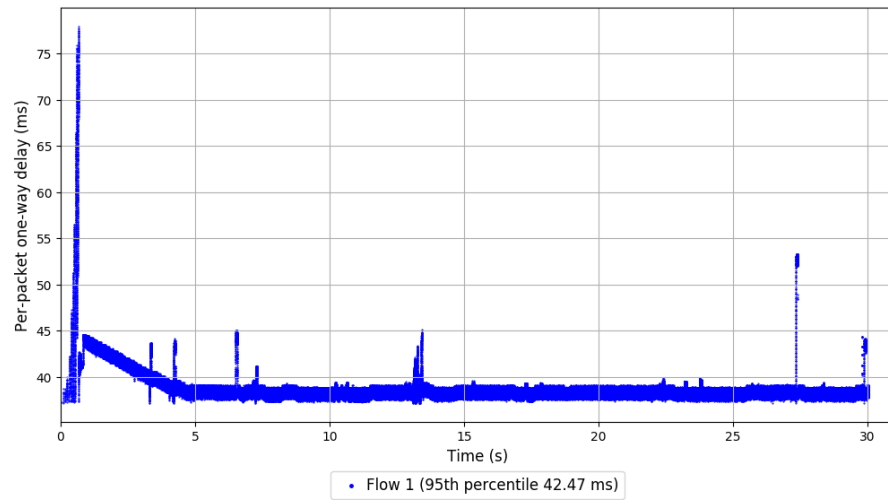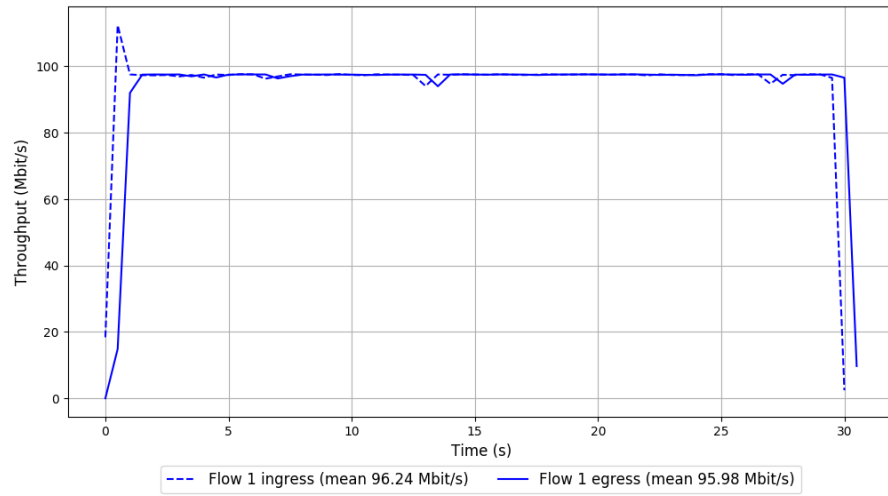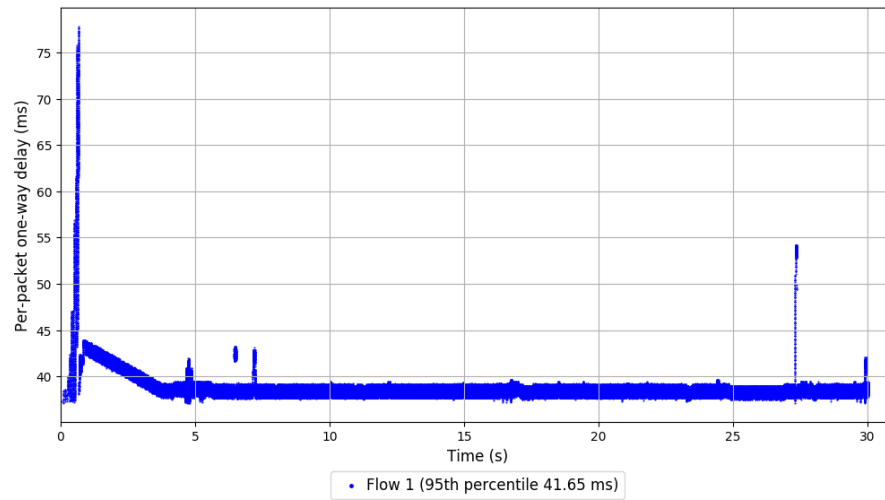
Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.24 Mbit/s) ---- Flow 1 egress (mean 95.98 Mbit/s) ——

Flow 1 (95th percentile 42.47 ms)

```
Run 6: Statistics of TCP Vegas

Start at: 2018-07-09 22:07:43
End at: 2018-07-09 22:08:13
Local clock offset: -0.83 ms
Remote clock offset: 3.827 ms


# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 41.649 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 41.649 ms
Loss rate: 0.27%
```
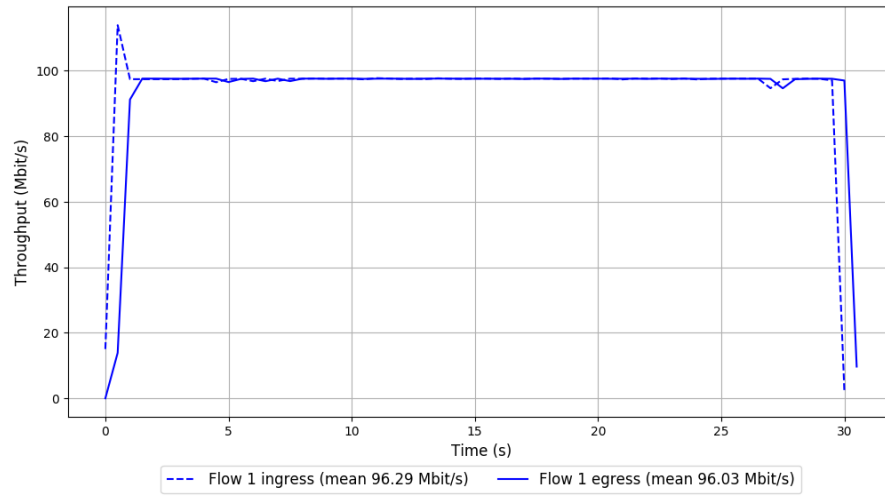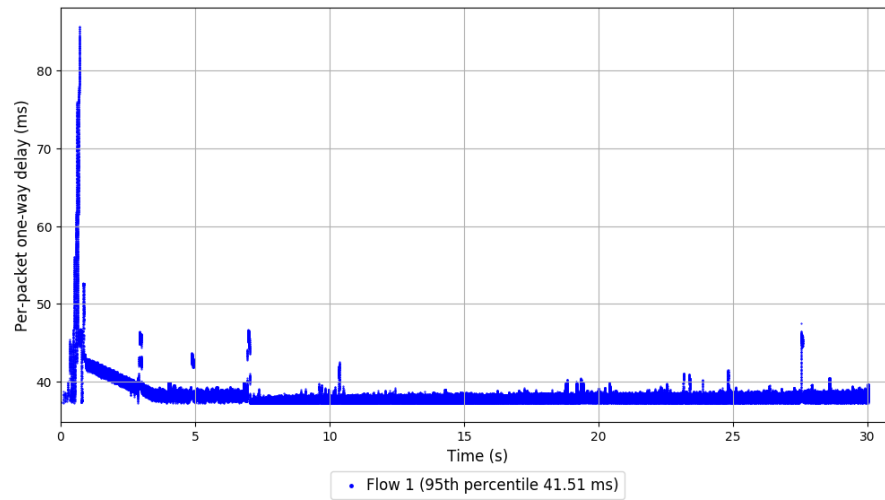
Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.29 Mbit/s)　　Flow 1 egress (mean 96.03 Mbit/s)

Flow 1 (95th percentile 41.65 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-07-09 22:30:52
End at: 2018-07-09 22:31:22
Local clock offset: -1.462 ms
Remote clock offset: 3.978 ms


# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.89 Mbit/s
95th percentile per-packet one-way delay: 41.514 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 77.89 Mbit/s
95th percentile per-packet one-way delay: 41.514 ms
Loss rate: 0.31%
```
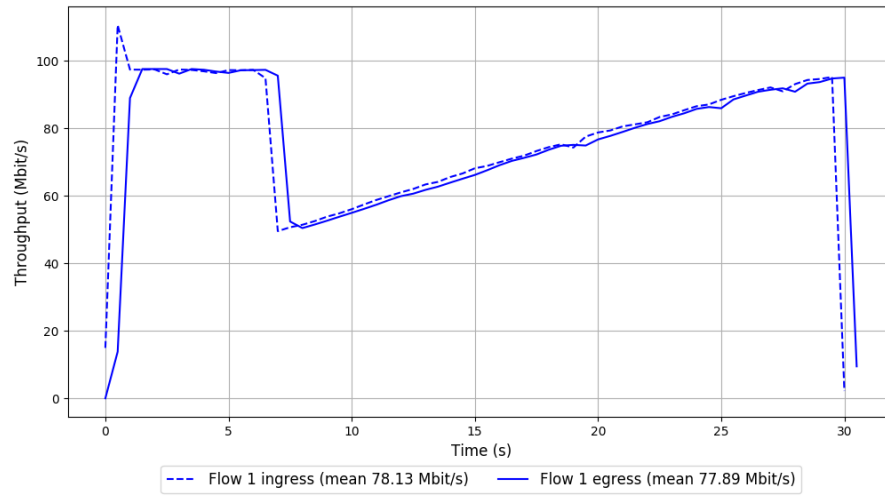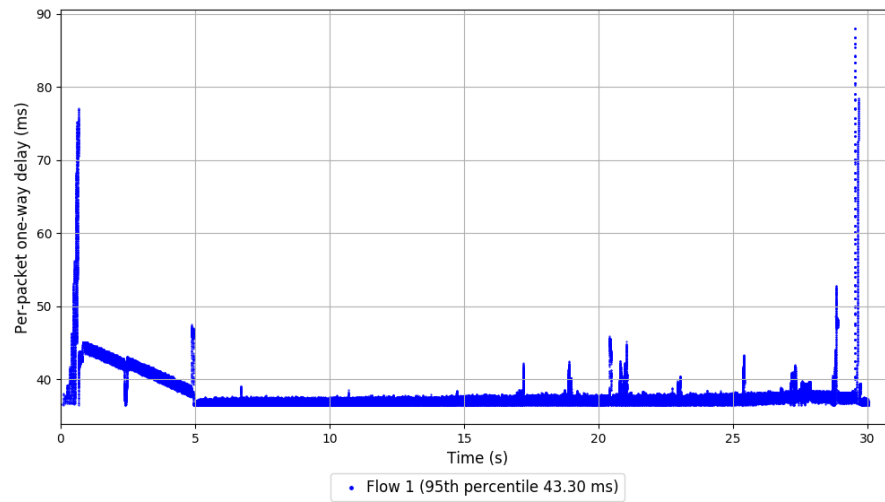
Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 78.13 Mbit/s) — — — Flow 1 egress (mean 77.89 Mbit/s)

• Flow 1 (95th percentile 41.51 ms)

```
Run 8: Statistics of TCP Vegas

Start at: 2018-07-09 22:55:11
End at: 2018-07-09 22:55:41
Local clock offset: -1.547 ms
Remote clock offset: 3.534 ms


# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 43.301 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 43.301 ms
Loss rate: 0.43%
```
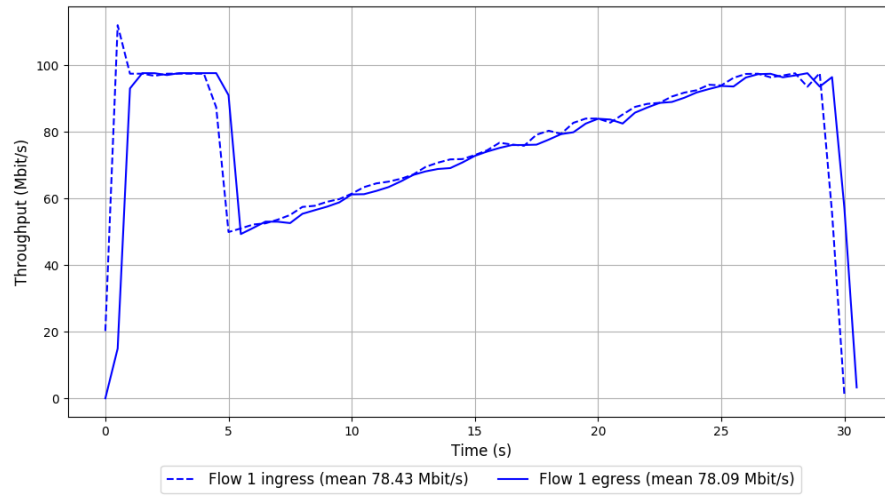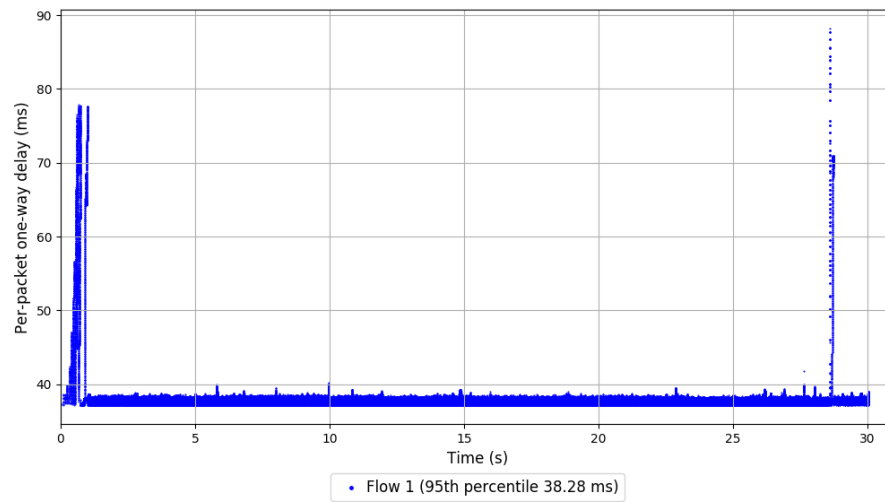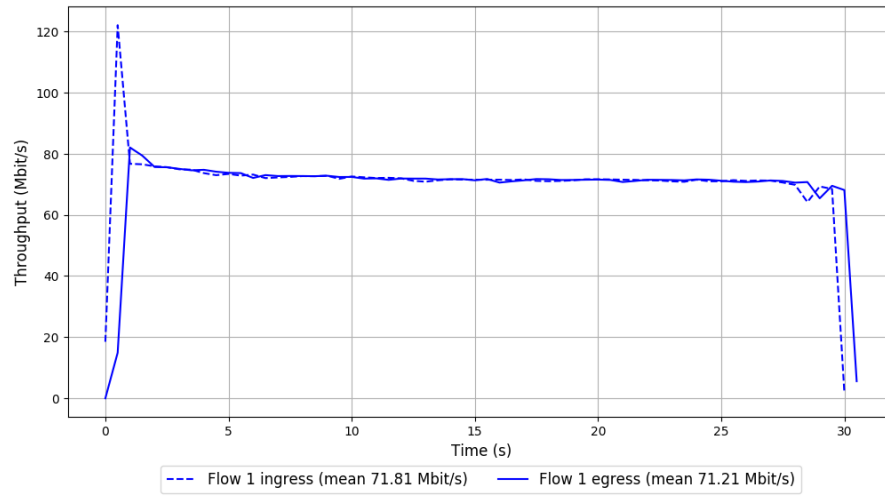
Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 78.43 Mbit/s) — — — Flow 1 egress (mean 78.09 Mbit/s)

· Flow 1 (95th percentile 43.30 ms)

279

```
Run 9: Statistics of TCP Vegas

Start at: 2018-07-09 23:19:22
End at: 2018-07-09 23:19:52
Local clock offset: -1.712 ms
Remote clock offset: 3.159 ms


# Below is generated by plot.py at 2018-07-10 00:17:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.21 Mbit/s
95th percentile per-packet one-way delay: 38.280 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 71.21 Mbit/s
95th percentile per-packet one-way delay: 38.280 ms
Loss rate: 0.84%
```
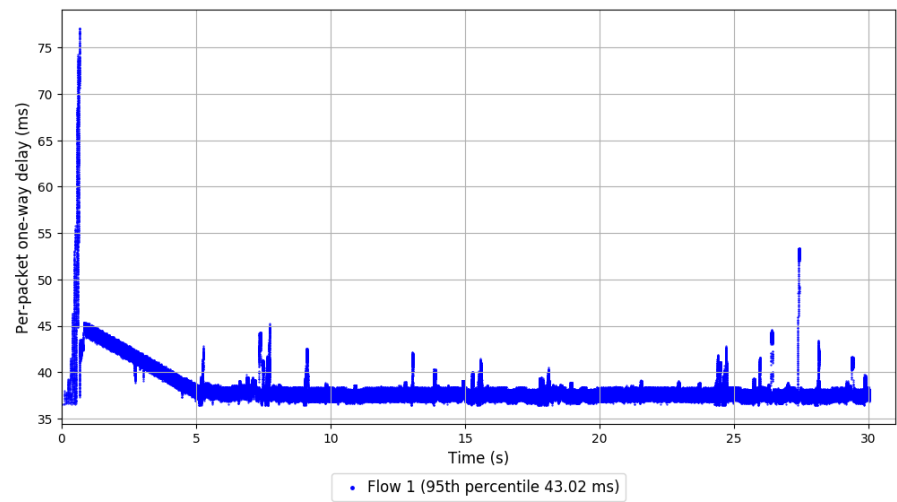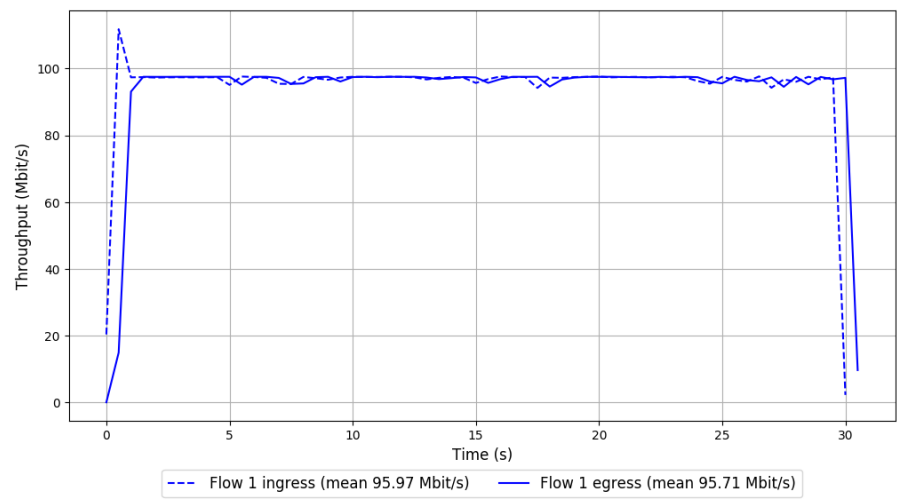
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 71.81 Mbit/s)   Flow 1 egress (mean 71.21 Mbit/s)

Flow 1 (95th percentile 38.28 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2018-07-09 23:43:52
End at: 2018-07-09 23:44:22
Local clock offset: -1.605 ms
Remote clock offset: 3.739 ms


# Below is generated by plot.py at 2018-07-10 00:17:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 43.020 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 43.020 ms
Loss rate: 0.27%
```

Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2018-07-09 20:18:54
End at: 2018-07-09 20:19:24
Local clock offset: -2.039 ms
Remote clock offset: 5.536 ms

# Below is generated by plot.py at 2018-07-10 00:17:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 71.900 ms
Loss rate: 23.10%
-- Flow 1:
Average throughput: 54.12 Mbit/s
95th percentile per-packet one-way delay: 71.900 ms
Loss rate: 23.10%
```
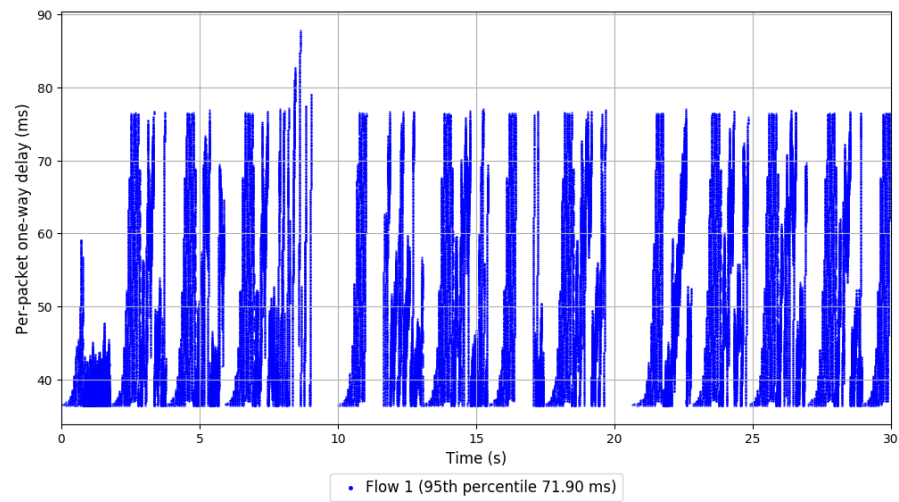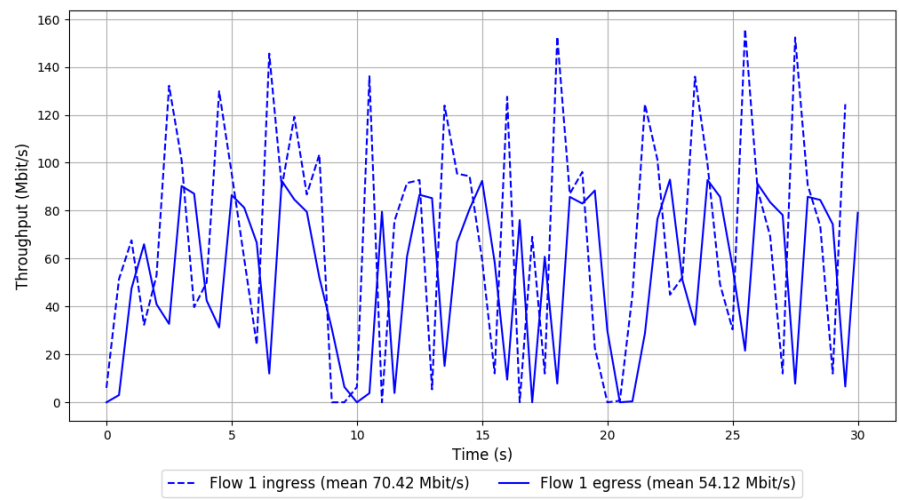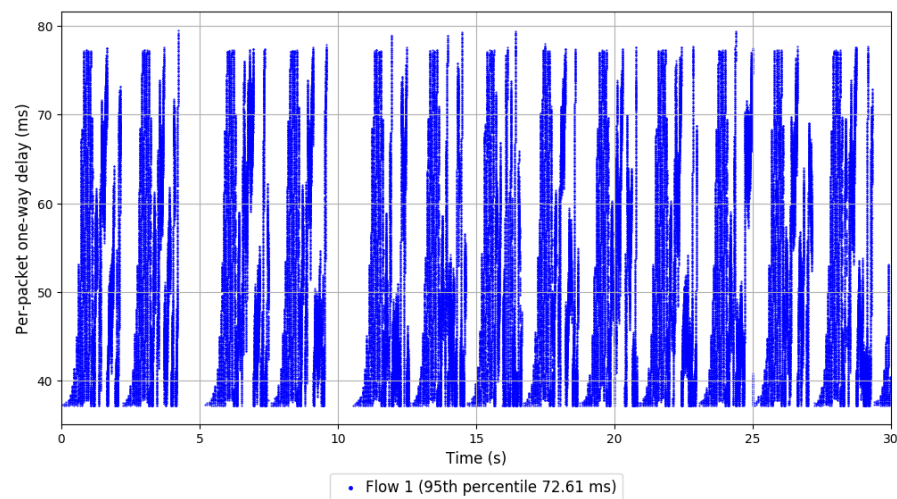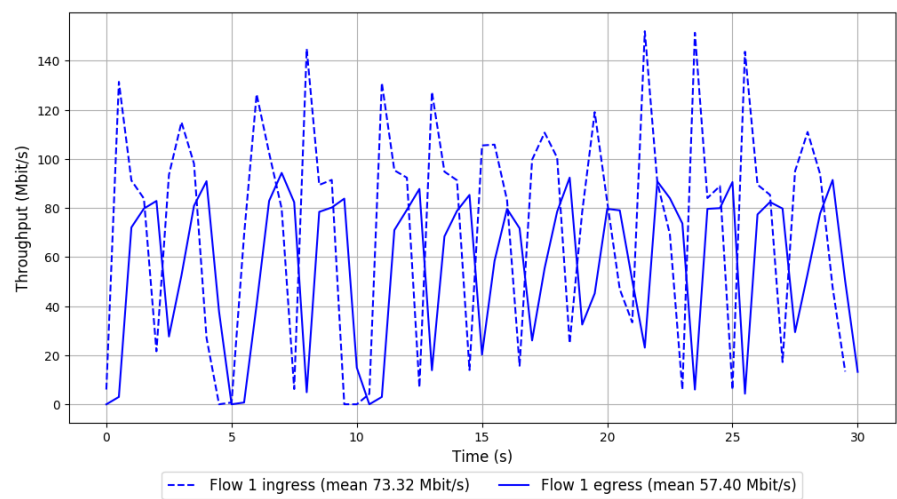
Run 1: Report of Verus — Data Link

Flow 1 ingress (mean 70.42 Mbit/s)   Flow 1 egress (mean 54.12 Mbit/s)

Flow 1 (95th percentile 71.90 ms)

```
Run 2: Statistics of Verus

Start at: 2018-07-09 20:42:57
End at: 2018-07-09 20:43:27
Local clock offset: -3.099 ms
Remote clock offset: 4.105 ms


# Below is generated by plot.py at 2018-07-10 00:17:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.40 Mbit/s
95th percentile per-packet one-way delay: 72.611 ms
Loss rate: 21.70%
-- Flow 1:
Average throughput: 57.40 Mbit/s
95th percentile per-packet one-way delay: 72.611 ms
Loss rate: 21.70%
```
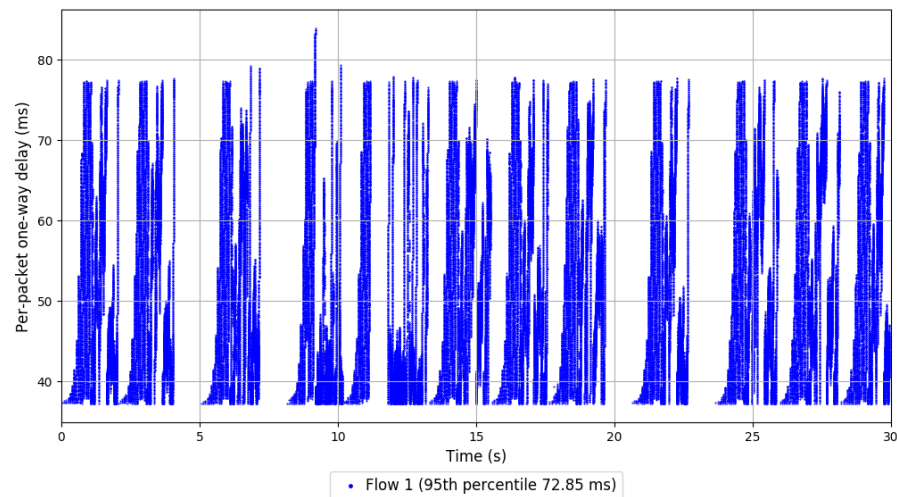
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2018-07-09 21:05:55
End at: 2018-07-09 21:06:25
Local clock offset: -2.316 ms
Remote clock offset: 3.215 ms


# Below is generated by plot.py at 2018-07-10 00:17:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.28 Mbit/s
95th percentile per-packet one-way delay: 72.851 ms
Loss rate: 22.17%
-- Flow 1:
Average throughput: 53.28 Mbit/s
95th percentile per-packet one-way delay: 72.851 ms
Loss rate: 22.17%
```
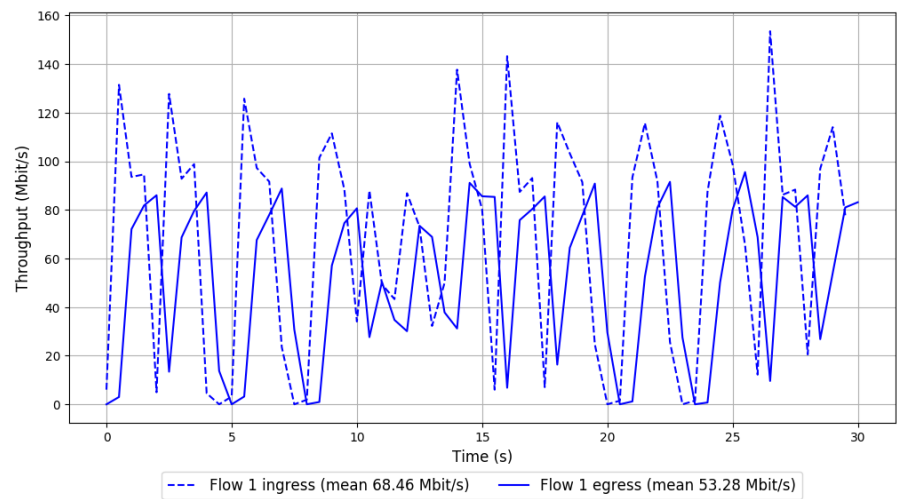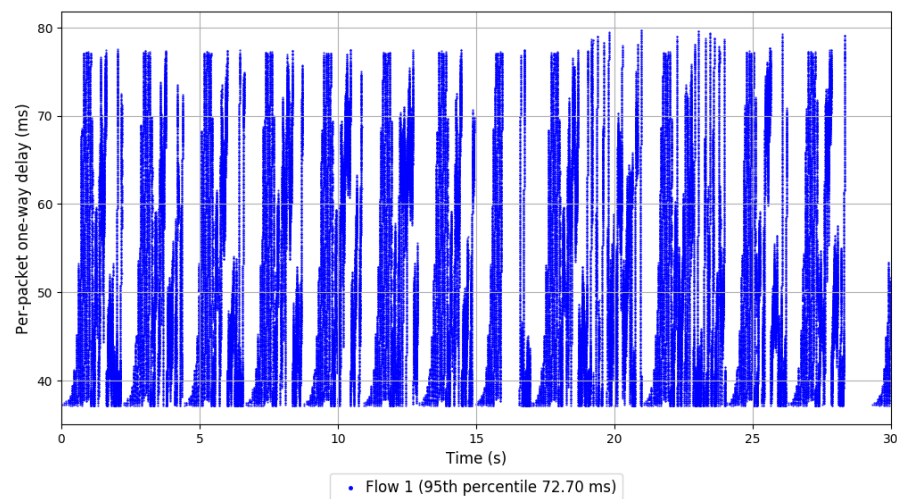
Run 3: Report of Verus — Data Link

Flow 1 ingress (mean 68.46 Mbit/s) ---- Flow 1 egress (mean 53.28 Mbit/s) ——

Flow 1 (95th percentile 72.85 ms)

```
Run 4: Statistics of Verus

Start at: 2018-07-09 21:28:53
End at: 2018-07-09 21:29:23
Local clock offset: -0.948 ms
Remote clock offset: 3.526 ms


# Below is generated by plot.py at 2018-07-10 00:17:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.05 Mbit/s
95th percentile per-packet one-way delay: 72.696 ms
Loss rate: 22.44%
-- Flow 1:
Average throughput: 59.05 Mbit/s
95th percentile per-packet one-way delay: 72.696 ms
Loss rate: 22.44%
```
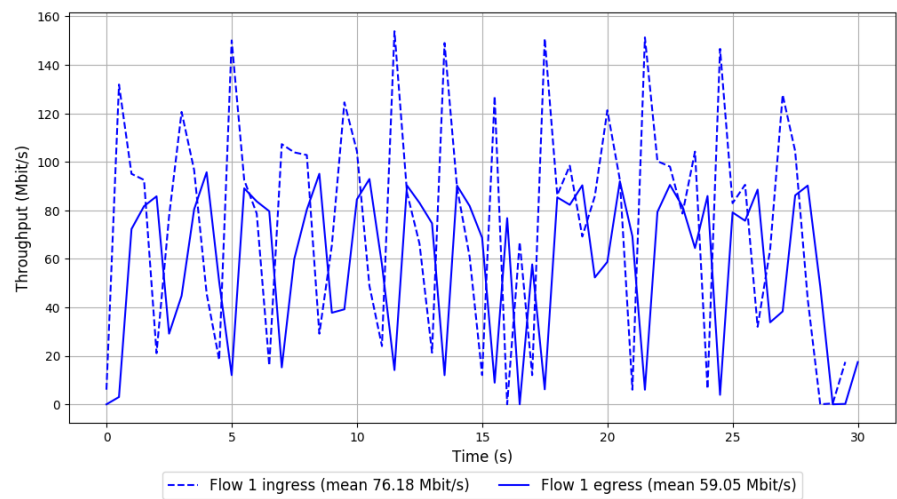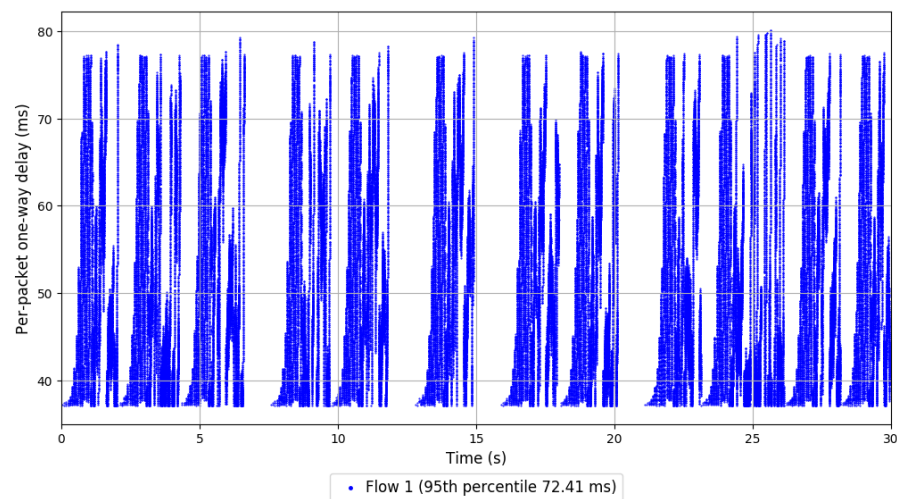
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2018-07-09 21:52:12
End at: 2018-07-09 21:52:42
Local clock offset: -0.641 ms
Remote clock offset: 3.849 ms


# Below is generated by plot.py at 2018-07-10 00:17:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.65 Mbit/s
95th percentile per-packet one-way delay: 72.411 ms
Loss rate: 22.48%
-- Flow 1:
Average throughput: 54.65 Mbit/s
95th percentile per-packet one-way delay: 72.411 ms
Loss rate: 22.48%
```
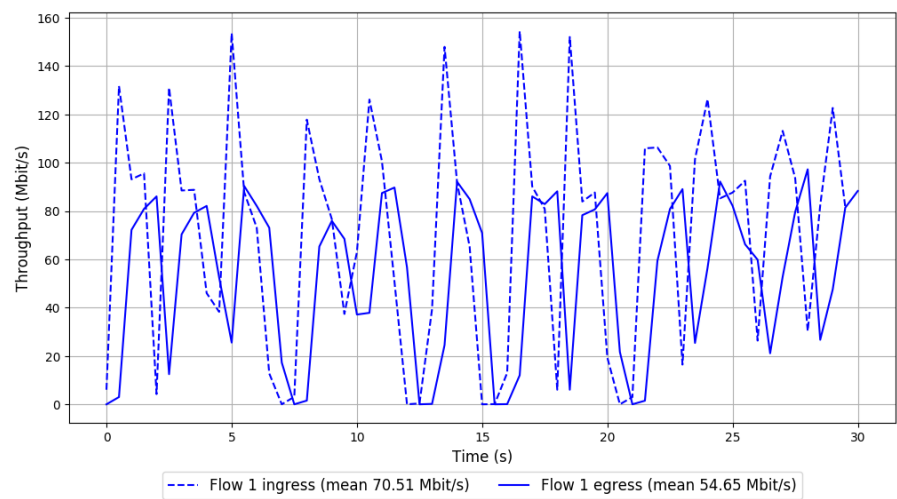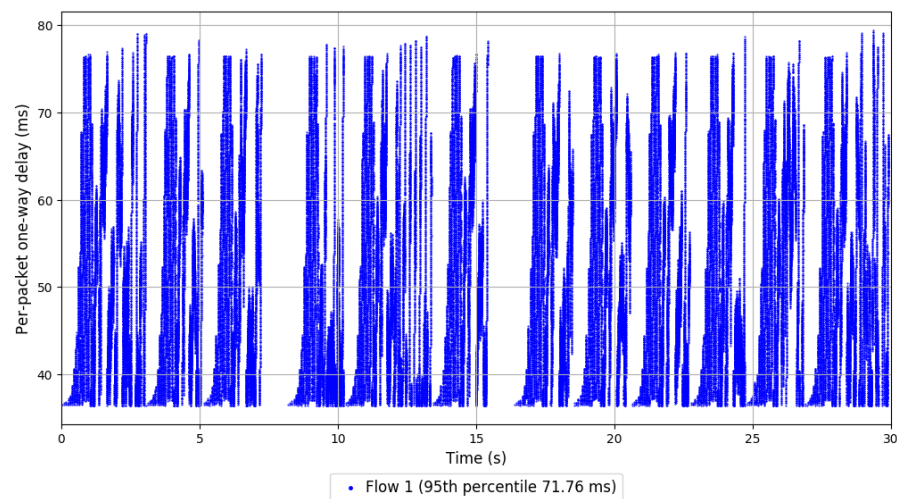
Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 70.51 Mbit/s) ----- Flow 1 egress (mean 54.65 Mbit/s) ———

• Flow 1 (95th percentile 72.41 ms)

```
Run 6: Statistics of Verus

Start at: 2018-07-09 22:15:41
End at: 2018-07-09 22:16:11
Local clock offset: -0.959 ms
Remote clock offset: 3.87 ms


# Below is generated by plot.py at 2018-07-10 00:18:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.24 Mbit/s
95th percentile per-packet one-way delay: 71.759 ms
Loss rate: 22.95%
-- Flow 1:
Average throughput: 59.24 Mbit/s
95th percentile per-packet one-way delay: 71.759 ms
Loss rate: 22.95%
```
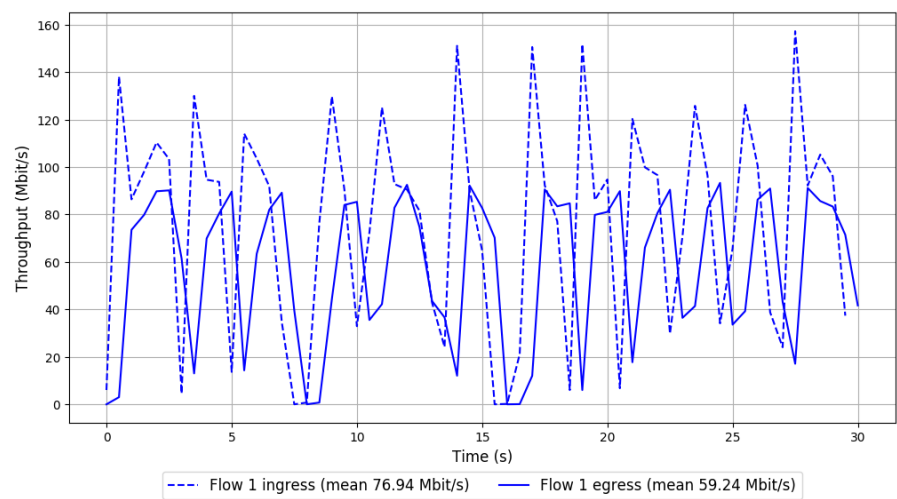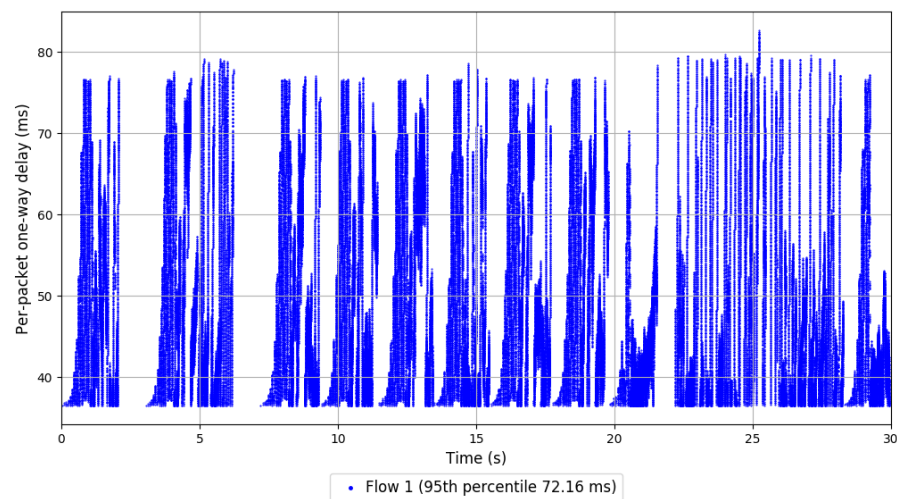
Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 76.94 Mbit/s) Flow 1 egress (mean 59.24 Mbit/s)

Flow 1 (95th percentile 71.76 ms)

```
Run 7: Statistics of Verus

Start at: 2018-07-09 22:38:57
End at: 2018-07-09 22:39:27
Local clock offset: -1.533 ms
Remote clock offset: 3.824 ms


# Below is generated by plot.py at 2018-07-10 00:18:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.86 Mbit/s
95th percentile per-packet one-way delay: 72.157 ms
Loss rate: 29.03%
-- Flow 1:
Average throughput: 54.86 Mbit/s
95th percentile per-packet one-way delay: 72.157 ms
Loss rate: 29.03%
```
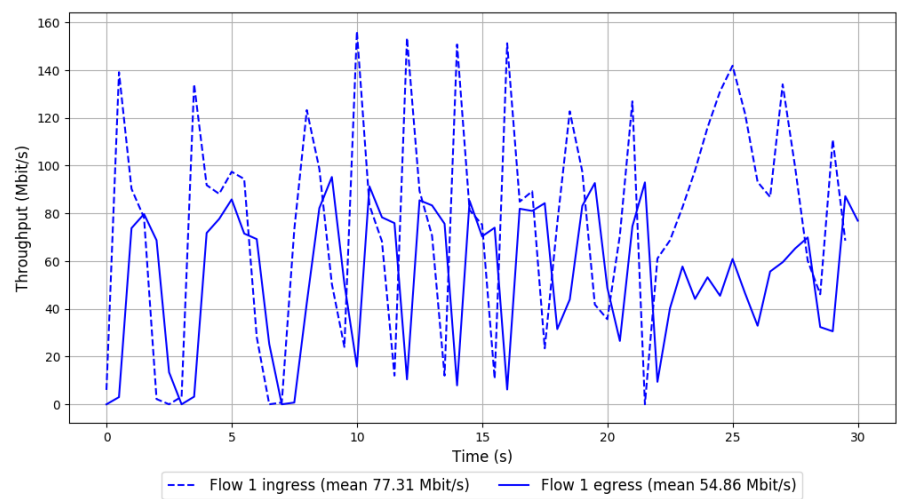
Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: 2018-07-09 23:03:28
End at: 2018-07-09 23:03:58
Local clock offset: -1.691 ms
Remote clock offset: 3.403 ms


# Below is generated by plot.py at 2018-07-10 00:18:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 73.207 ms
Loss rate: 30.75%
-- Flow 1:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 73.207 ms
Loss rate: 30.75%
```
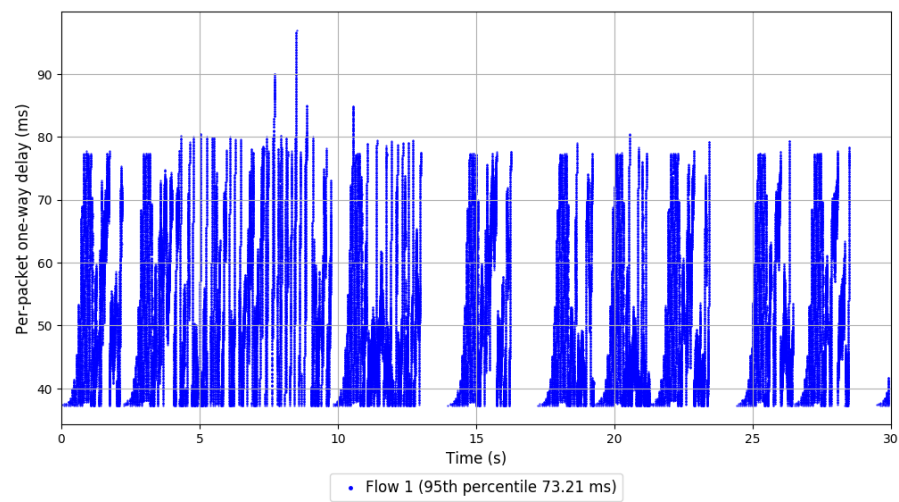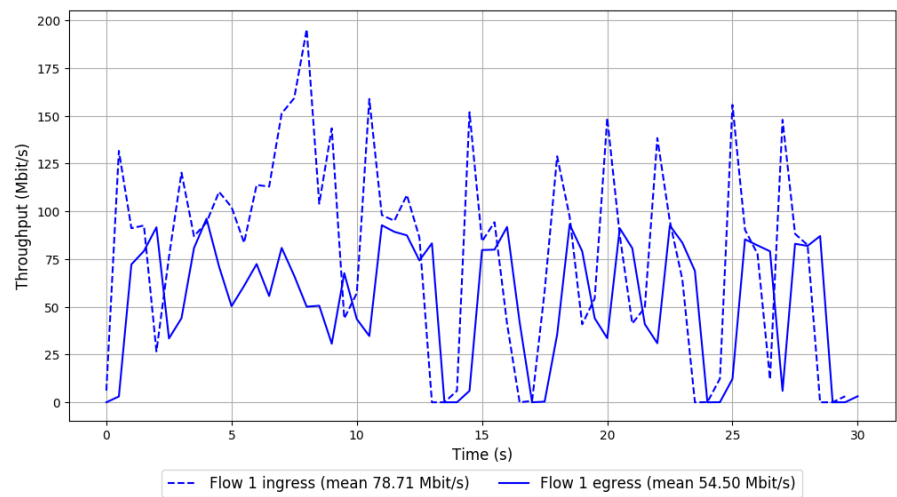
Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2018-07-09 23:27:38
End at: 2018-07-09 23:28:08
Local clock offset: -1.773 ms
Remote clock offset: 3.42 ms


# Below is generated by plot.py at 2018-07-10 00:18:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 72.374 ms
Loss rate: 22.42%
-- Flow 1:
Average throughput: 58.31 Mbit/s
95th percentile per-packet one-way delay: 72.374 ms
Loss rate: 22.42%
```
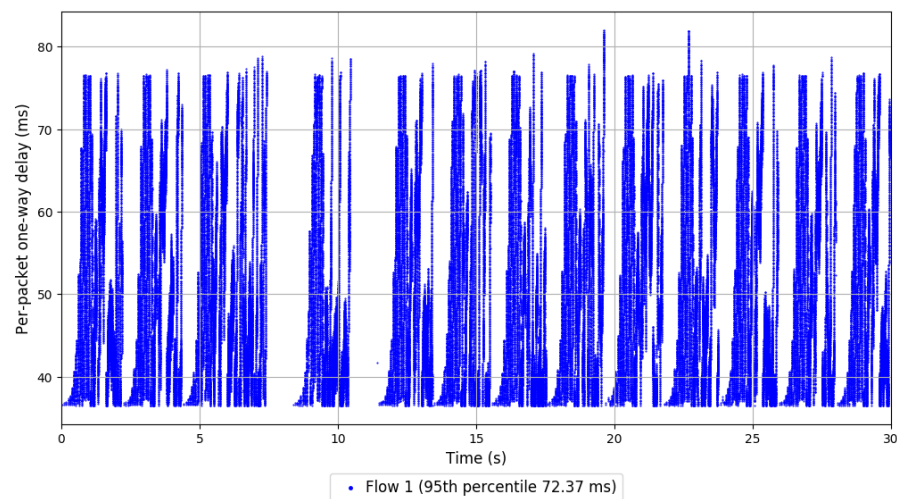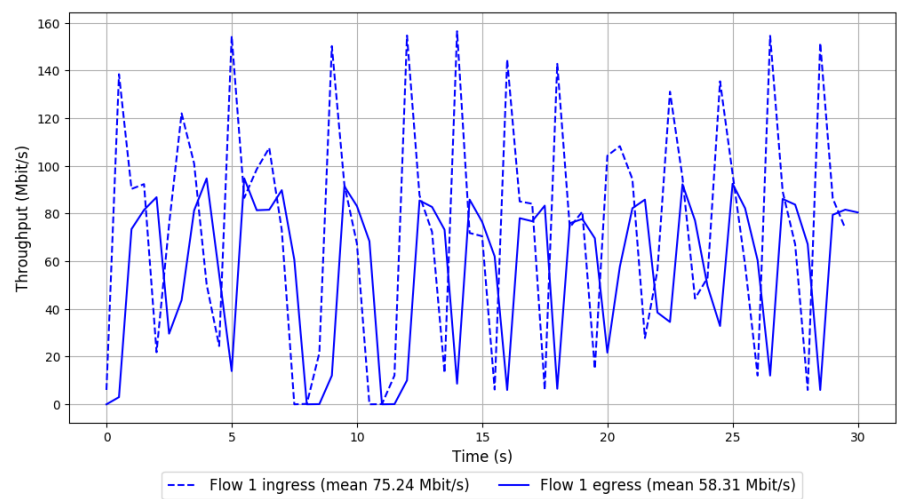
Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2018-07-09 23:52:13
End at: 2018-07-09 23:52:43
Local clock offset: -1.541 ms
Remote clock offset: 3.81 ms


# Below is generated by plot.py at 2018-07-10 00:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.32 Mbit/s
95th percentile per-packet one-way delay: 72.506 ms
Loss rate: 33.25%
-- Flow 1:
Average throughput: 60.32 Mbit/s
95th percentile per-packet one-way delay: 72.506 ms
Loss rate: 33.25%
```
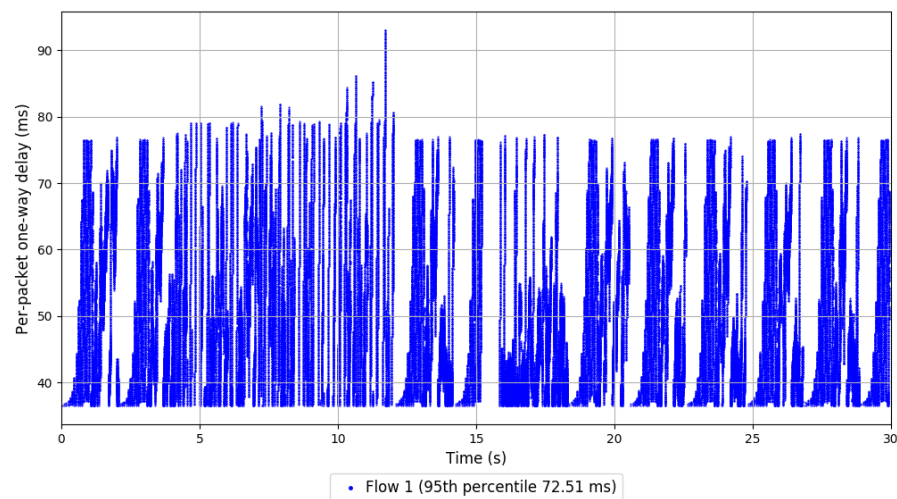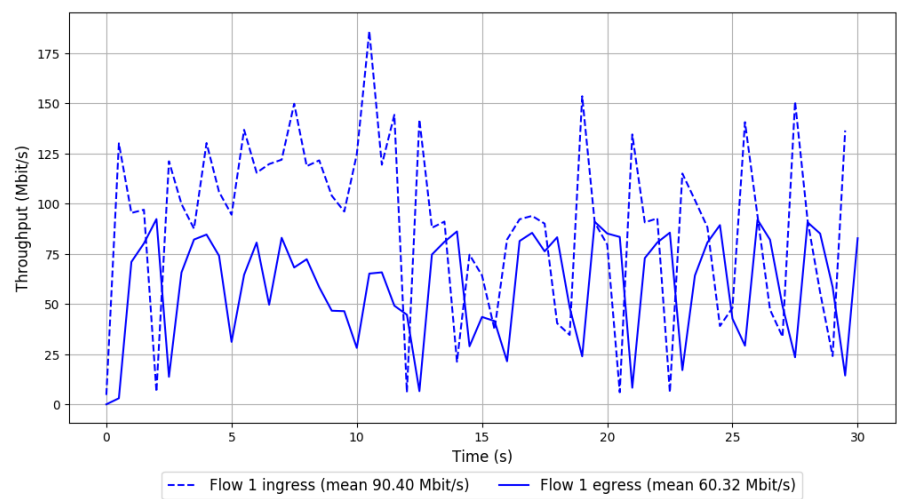
Run 10: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2018-07-09 19:58:44
End at: 2018-07-09 19:59:14
Local clock offset: -2.005 ms
Remote clock offset: 5.047 ms

# Below is generated by plot.py at 2018-07-10 00:19:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.44 Mbit/s
95th percentile per-packet one-way delay: 39.246 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.44 Mbit/s
95th percentile per-packet one-way delay: 39.246 ms
Loss rate: 0.02%
```
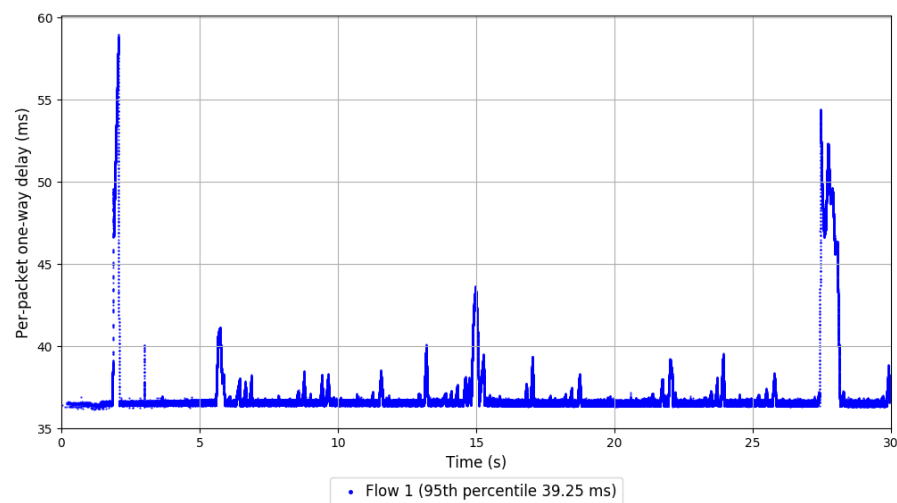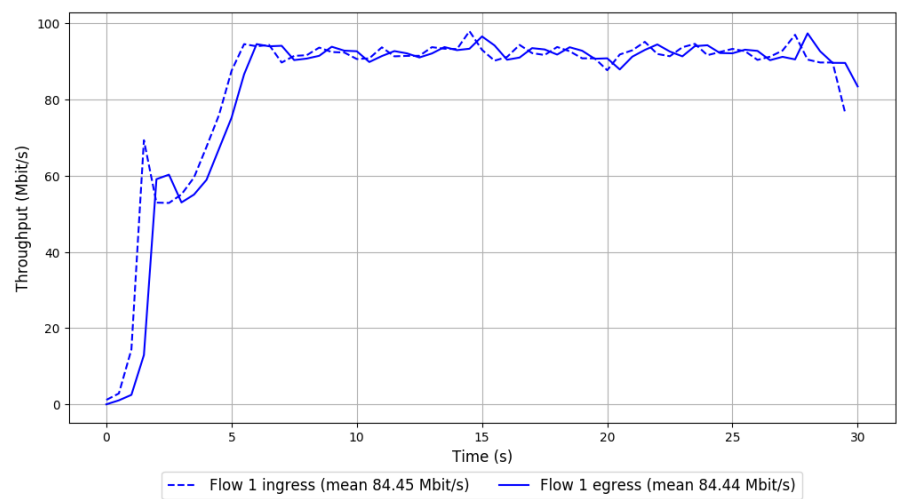
Run 1: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 84.45 Mbit/s) — Flow 1 egress (mean 84.44 Mbit/s)

Flow 1 (95th percentile 39.25 ms)

```
Run 2: Statistics of PCC-Vivace

Start at: 2018-07-09 20:21:46
End at: 2018-07-09 20:22:16
Local clock offset: -2.191 ms
Remote clock offset: 5.589 ms


# Below is generated by plot.py at 2018-07-10 00:19:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.55 Mbit/s
95th percentile per-packet one-way delay: 38.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.55 Mbit/s
95th percentile per-packet one-way delay: 38.571 ms
Loss rate: 0.00%
```
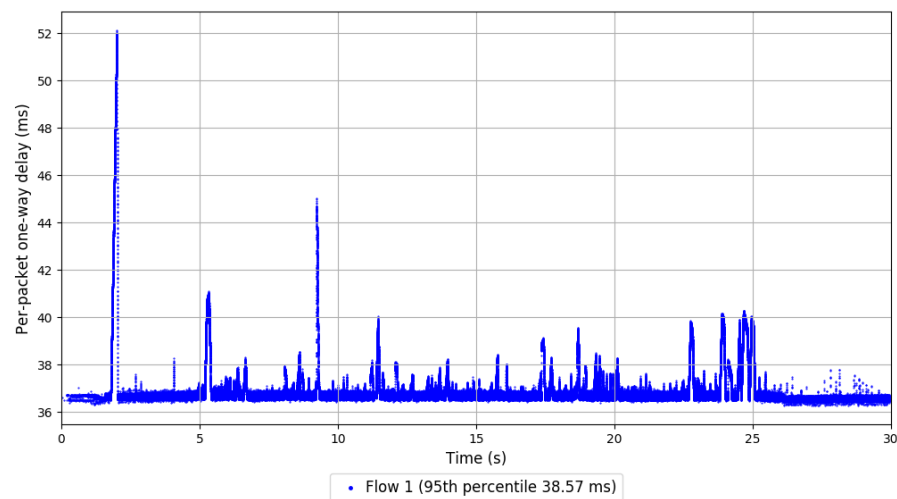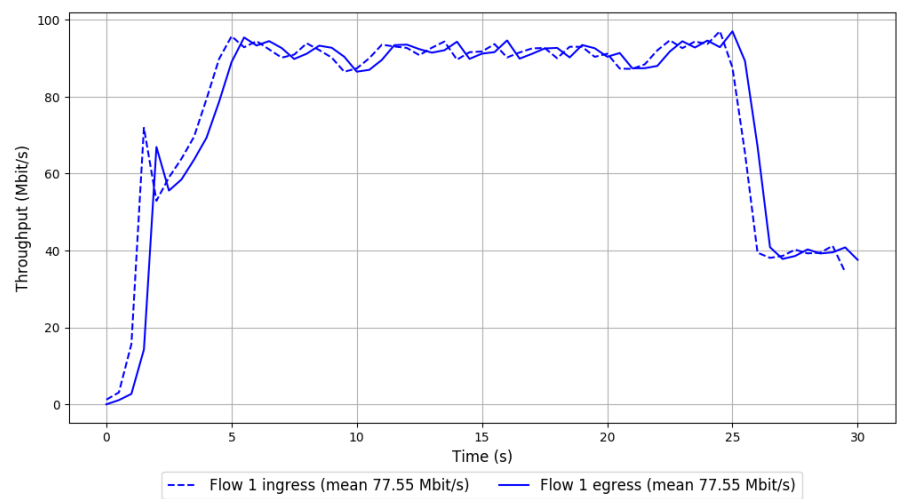
Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2018-07-09 20:45:46
End at: 2018-07-09 20:46:16
Local clock offset: -3.283 ms
Remote clock offset: 3.878 ms

# Below is generated by plot.py at 2018-07-10 00:19:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.31 Mbit/s
95th percentile per-packet one-way delay: 49.536 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 83.31 Mbit/s
95th percentile per-packet one-way delay: 49.536 ms
Loss rate: 0.02%
```
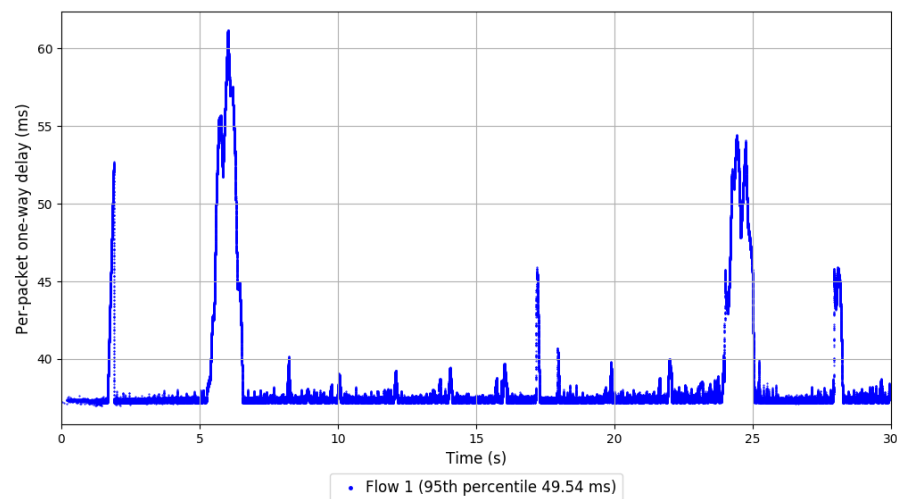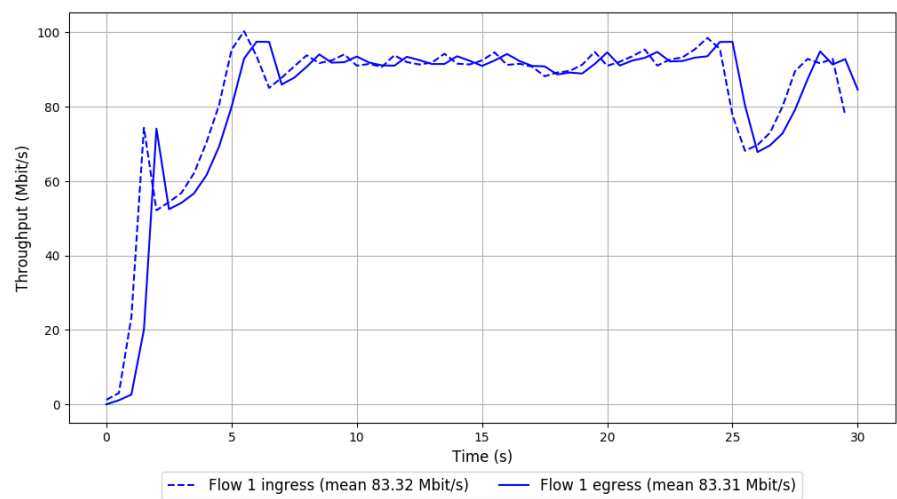
Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 83.32 Mbit/s)   Flow 1 egress (mean 83.31 Mbit/s)

Flow 1 (95th percentile 49.54 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2018-07-09 21:08:35
End at: 2018-07-09 21:09:05
Local clock offset: -2.181 ms
Remote clock offset: 3.288 ms


# Below is generated by plot.py at 2018-07-10 00:19:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.79 Mbit/s
95th percentile per-packet one-way delay: 38.467 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 80.79 Mbit/s
95th percentile per-packet one-way delay: 38.467 ms
Loss rate: 0.03%
```
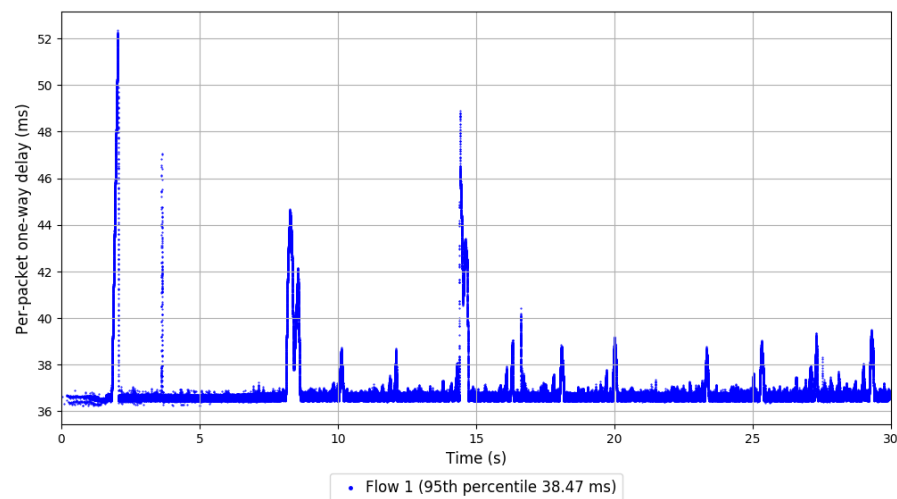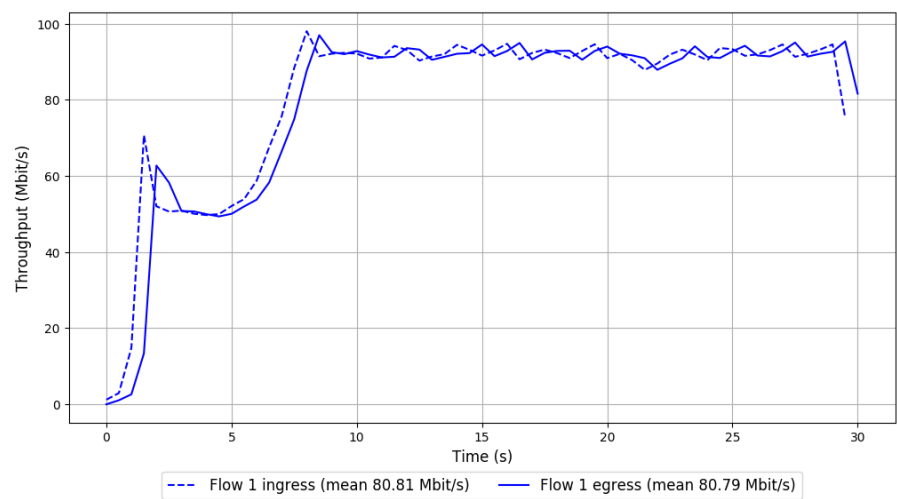
Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 80.81 Mbit/s)   Flow 1 egress (mean 80.79 Mbit/s)

Flow 1 (95th percentile 38.47 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2018-07-09 21:31:40
End at: 2018-07-09 21:32:10
Local clock offset: -0.866 ms
Remote clock offset: 3.529 ms


# Below is generated by plot.py at 2018-07-10 00:19:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.08 Mbit/s
95th percentile per-packet one-way delay: 44.483 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 84.08 Mbit/s
95th percentile per-packet one-way delay: 44.483 ms
Loss rate: 0.04%
```
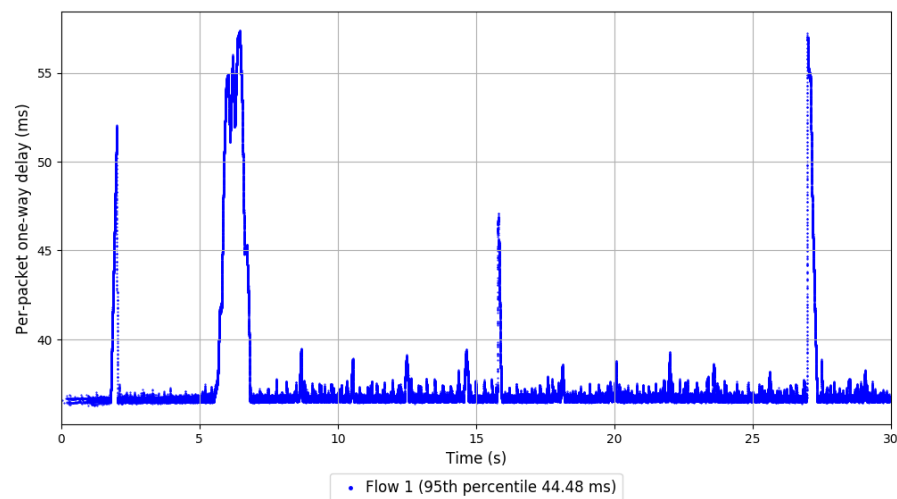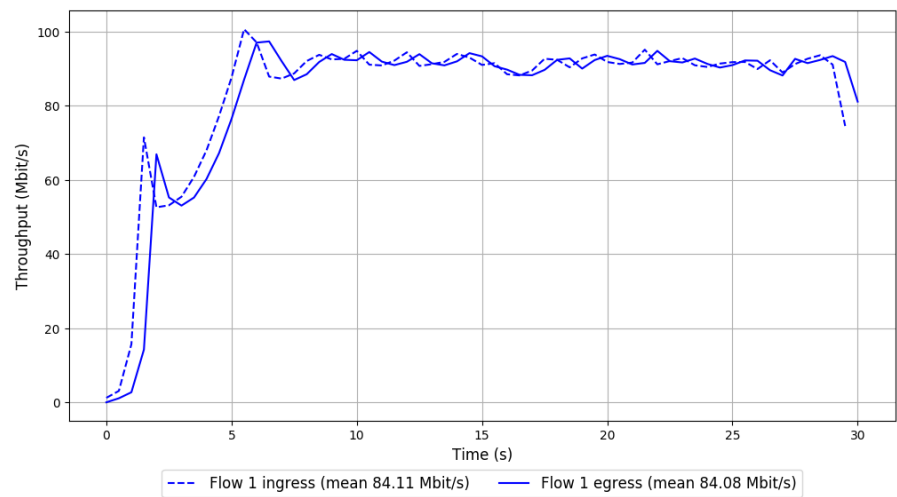
Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 84.11 Mbit/s)   Flow 1 egress (mean 84.08 Mbit/s)

Flow 1 (95th percentile 44.48 ms)

```
Run 6: Statistics of PCC-Vivace

Start at: 2018-07-09 21:55:02
End at: 2018-07-09 21:55:32
Local clock offset: -0.645 ms
Remote clock offset: 3.889 ms

# Below is generated by plot.py at 2018-07-10 00:19:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.48 Mbit/s
95th percentile per-packet one-way delay: 43.062 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 84.48 Mbit/s
95th percentile per-packet one-way delay: 43.062 ms
Loss rate: 0.03%
```
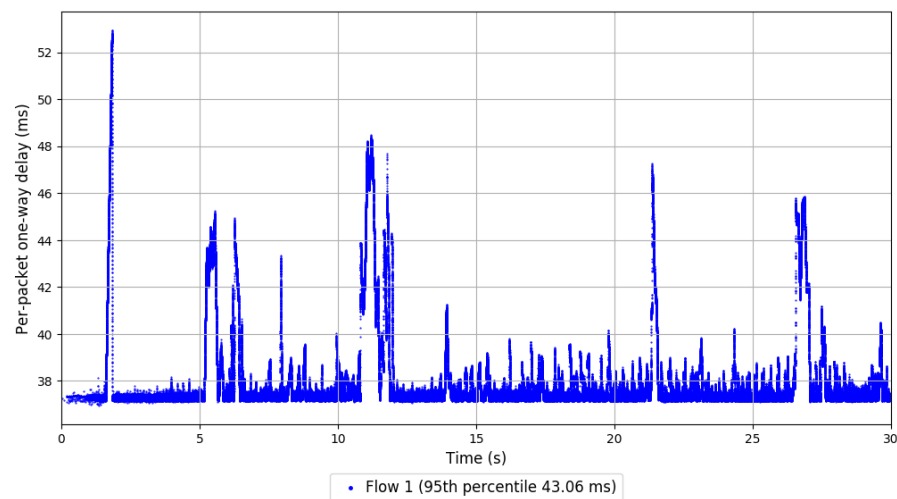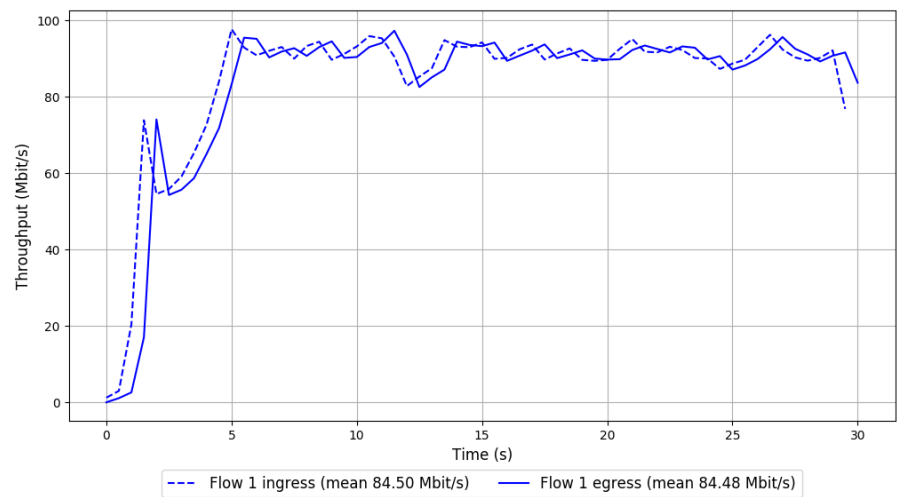
Run 6: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 84.50 Mbit/s)   Flow 1 egress (mean 84.48 Mbit/s)

Flow 1 (95th percentile 43.06 ms)

```
Run 7: Statistics of PCC-Vivace

Start at: 2018-07-09 22:18:21
End at: 2018-07-09 22:18:52
Local clock offset: -1.038 ms
Remote clock offset: 3.355 ms

# Below is generated by plot.py at 2018-07-10 00:19:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.33 Mbit/s
95th percentile per-packet one-way delay: 37.648 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.33 Mbit/s
95th percentile per-packet one-way delay: 37.648 ms
Loss rate: 0.02%
```
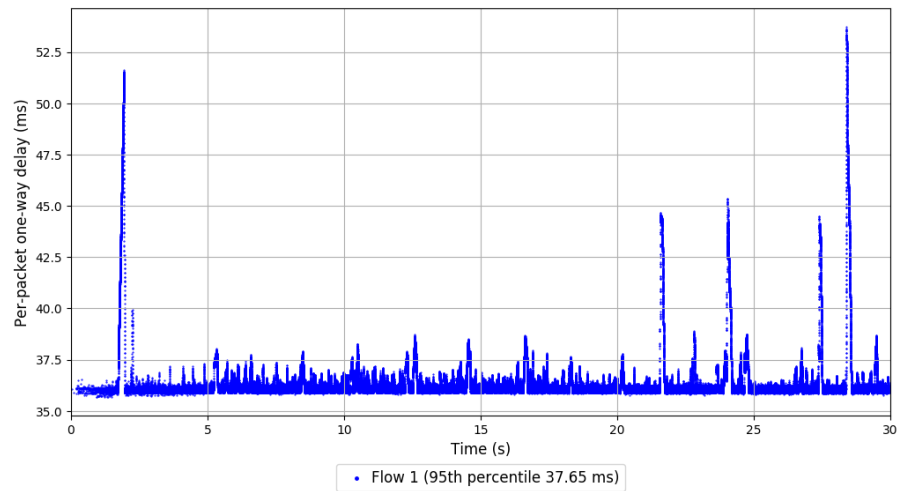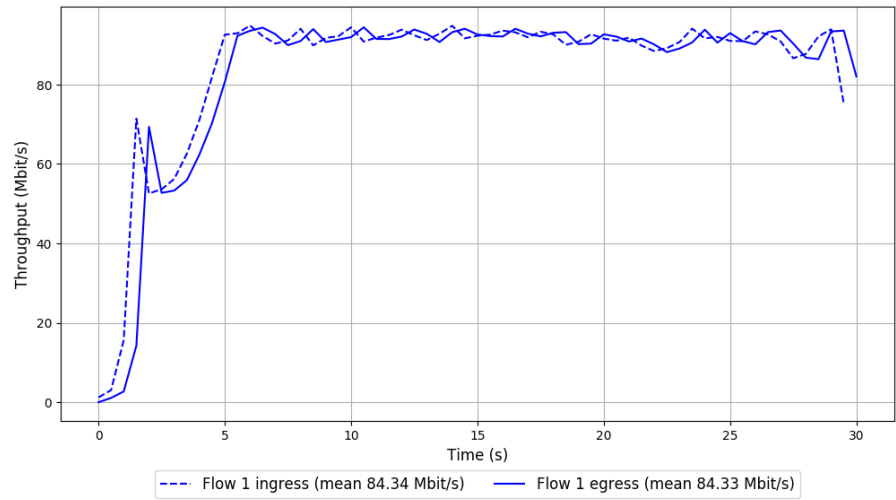
Run 7: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 84.34 Mbit/s)   Flow 1 egress (mean 84.33 Mbit/s)

Flow 1 (95th percentile 37.65 ms)

```
Run 8: Statistics of PCC-Vivace

Start at: 2018-07-09 22:41:48
End at: 2018-07-09 22:42:18
Local clock offset: -1.538 ms
Remote clock offset: 3.858 ms


# Below is generated by plot.py at 2018-07-10 00:19:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.44 Mbit/s
95th percentile per-packet one-way delay: 38.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.44 Mbit/s
95th percentile per-packet one-way delay: 38.479 ms
Loss rate: 0.00%
```
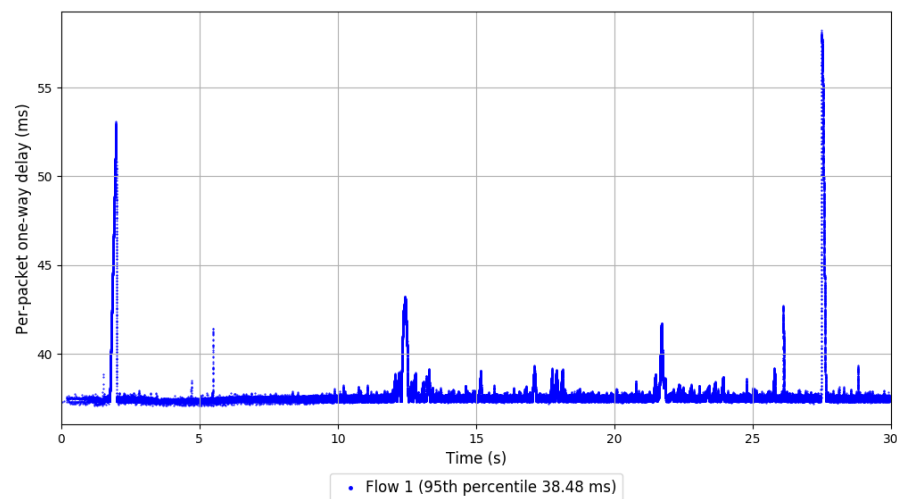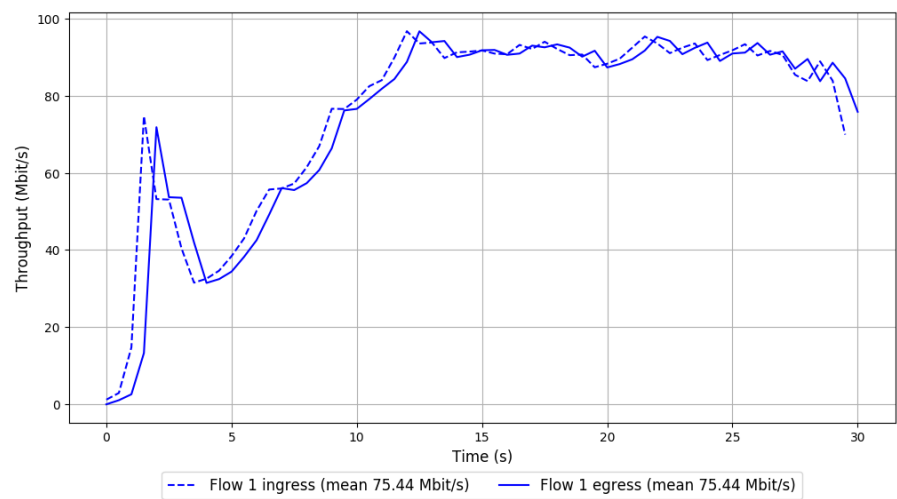
Run 8: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 75.44 Mbit/s) --- Flow 1 egress (mean 75.44 Mbit/s)

Flow 1 (95th percentile 38.48 ms)

```
Run 9: Statistics of PCC-Vivace

Start at: 2018-07-09 23:06:22
End at: 2018-07-09 23:06:52
Local clock offset: -1.634 ms
Remote clock offset: 3.406 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.68 Mbit/s
95th percentile per-packet one-way delay: 38.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.68 Mbit/s
95th percentile per-packet one-way delay: 38.072 ms
Loss rate: 0.00%
```
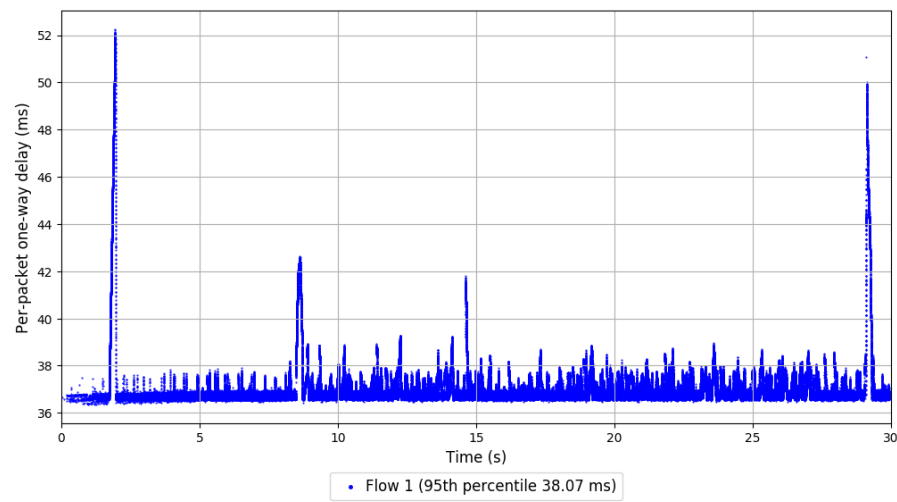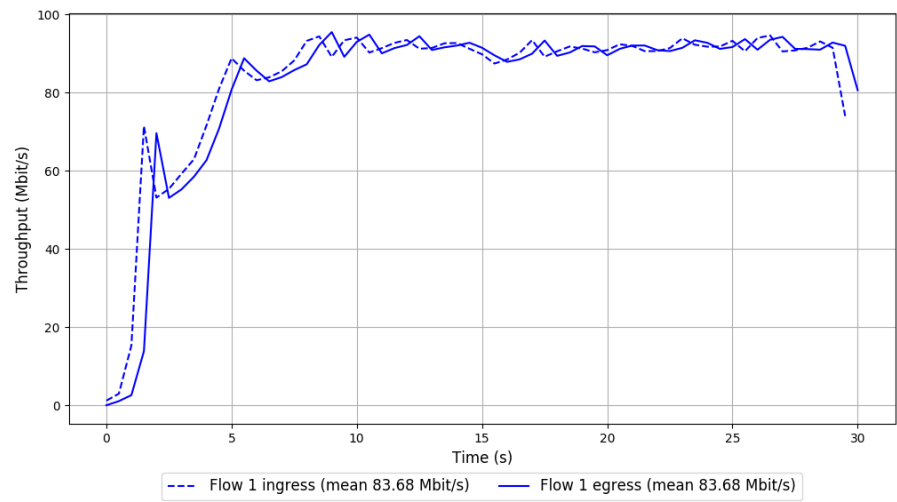
Run 9: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 83.68 Mbit/s) Flow 1 egress (mean 83.68 Mbit/s)

Flow 1 (95th percentile 38.07 ms)

```
Run 10: Statistics of PCC-Vivace

Start at: 2018-07-09 23:30:50
End at: 2018-07-09 23:31:20
Local clock offset: -1.749 ms
Remote clock offset: 3.519 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.16 Mbit/s
95th percentile per-packet one-way delay: 37.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.16 Mbit/s
95th percentile per-packet one-way delay: 37.816 ms
Loss rate: 0.00%
```
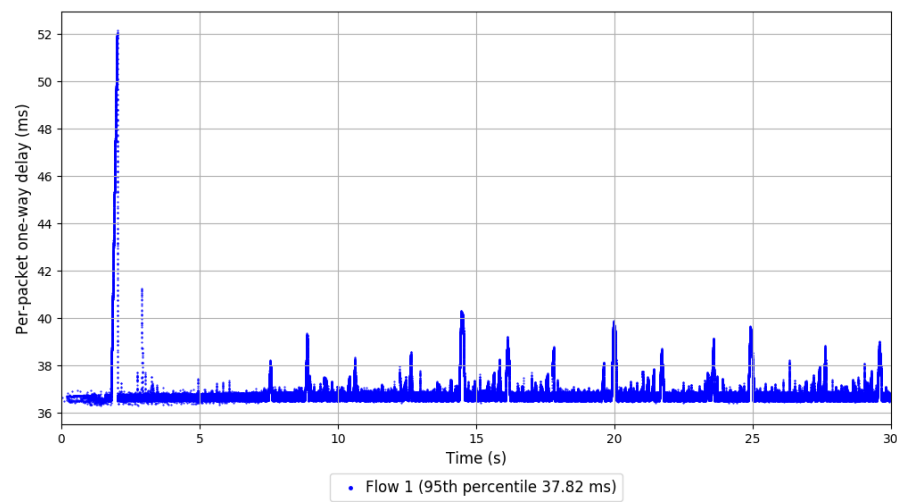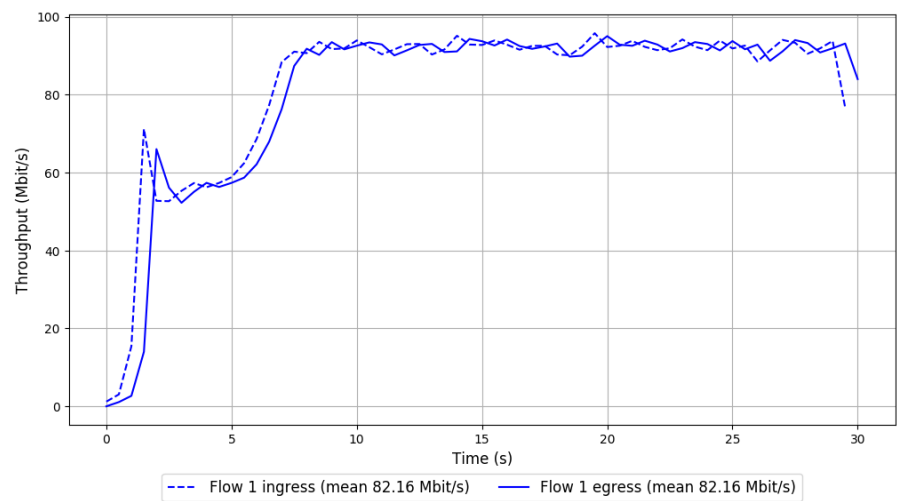
Run 10: Report of PCC-Vivace — Data Link

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

Flow 1 (95th percentile 37.82 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2018-07-09 20:17:39
End at: 2018-07-09 20:18:09
Local clock offset: -2.132 ms
Remote clock offset: 5.503 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 37.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 37.159 ms
Loss rate: 0.00%
```
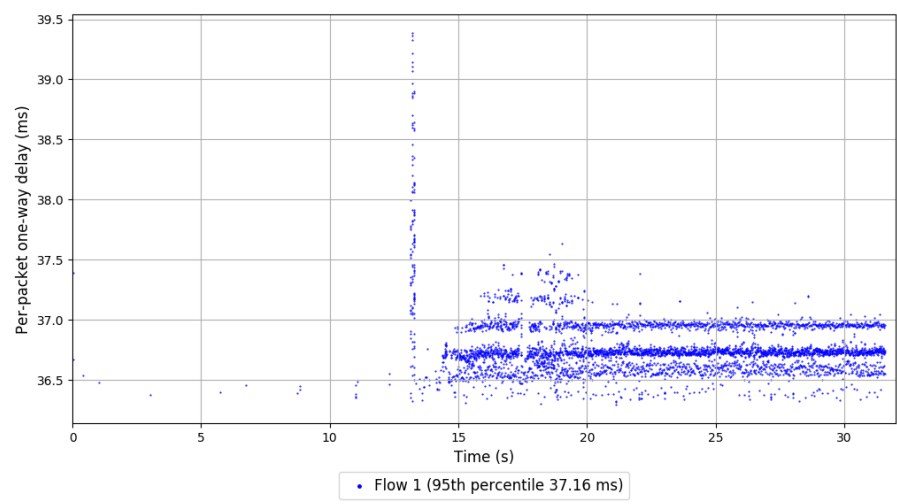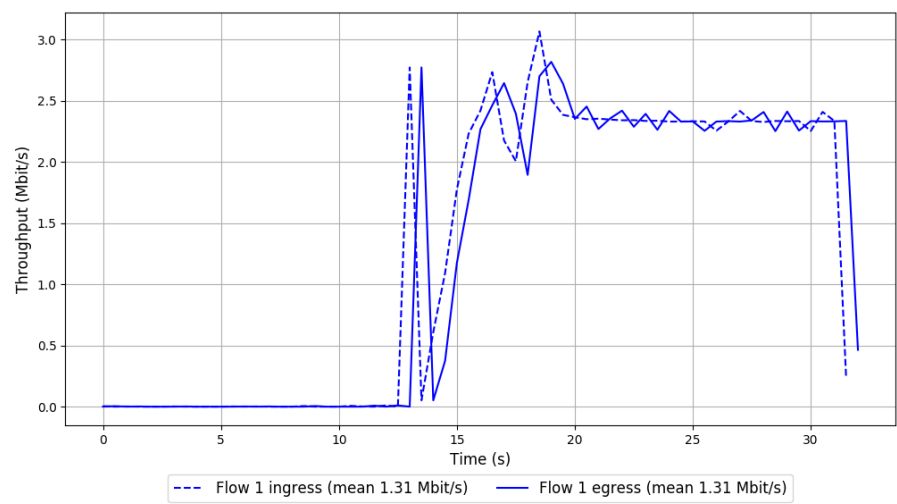
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-07-09 20:41:41
End at: 2018-07-09 20:42:11
Local clock offset: -2.995 ms
Remote clock offset: 4.052 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 36.811 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 36.811 ms
Loss rate: 0.00%
```
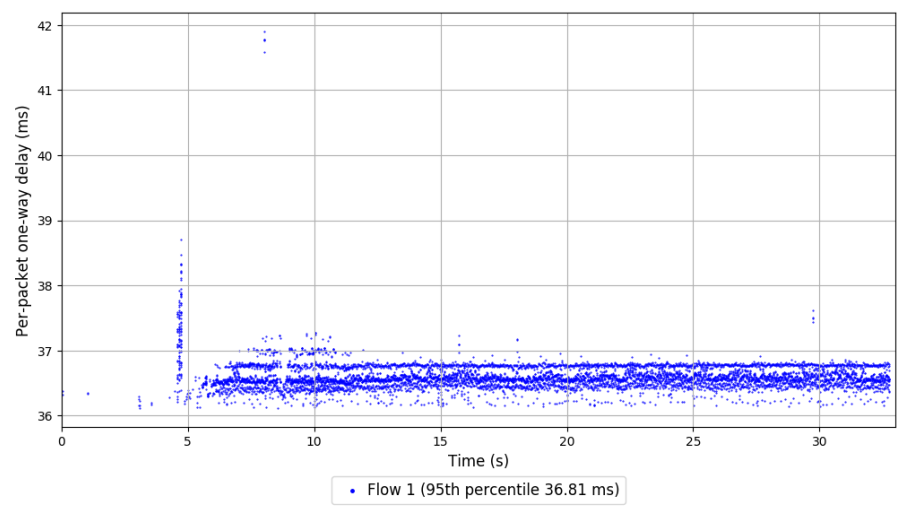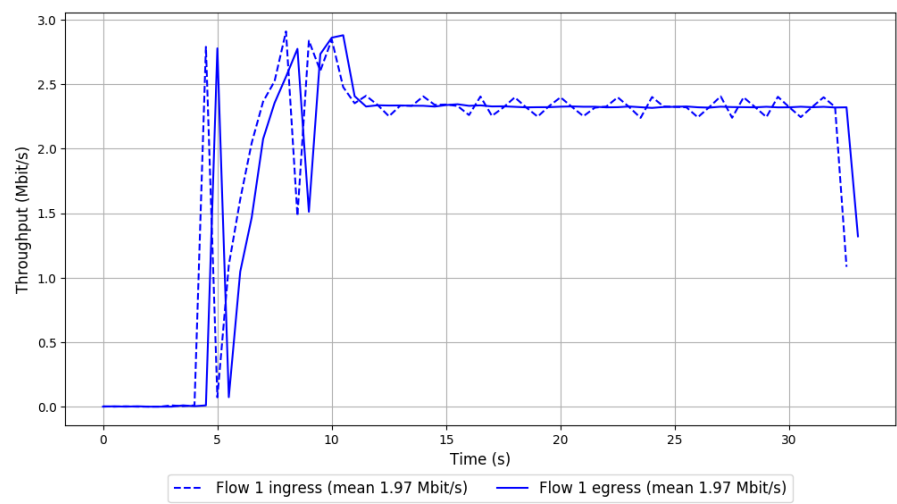
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-07-09 21:04:40
End at: 2018-07-09 21:05:10
Local clock offset: -2.241 ms
Remote clock offset: 3.108 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 36.893 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 36.893 ms
Loss rate: 0.00%
```
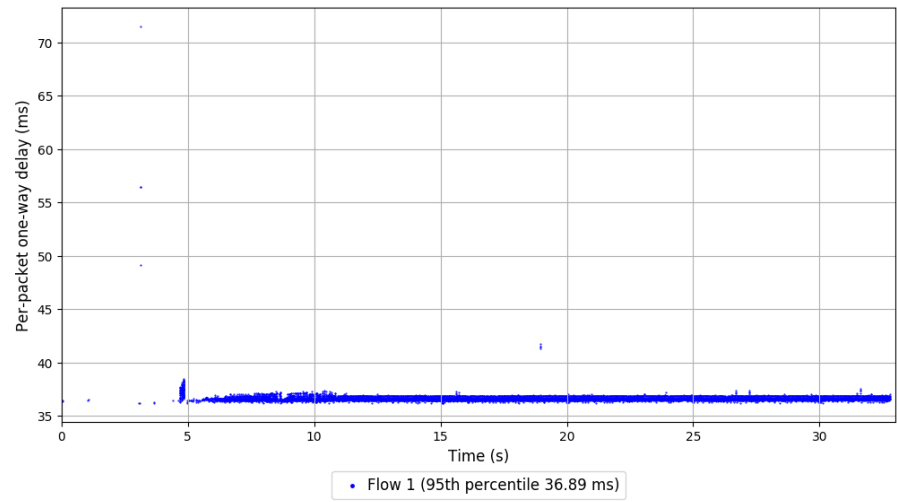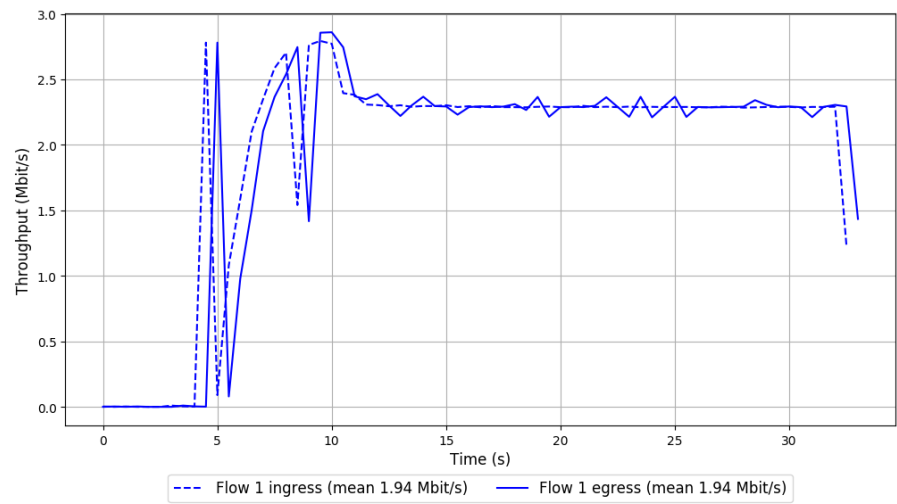
Run 3: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.94 Mbit/s) --- Flow 1 egress (mean 1.94 Mbit/s)

Flow 1 (95th percentile 36.89 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2018-07-09 21:27:38
End at: 2018-07-09 21:28:08
Local clock offset: -1.031 ms
Remote clock offset: 3.561 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 37.004 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 37.004 ms
Loss rate: 0.00%
```
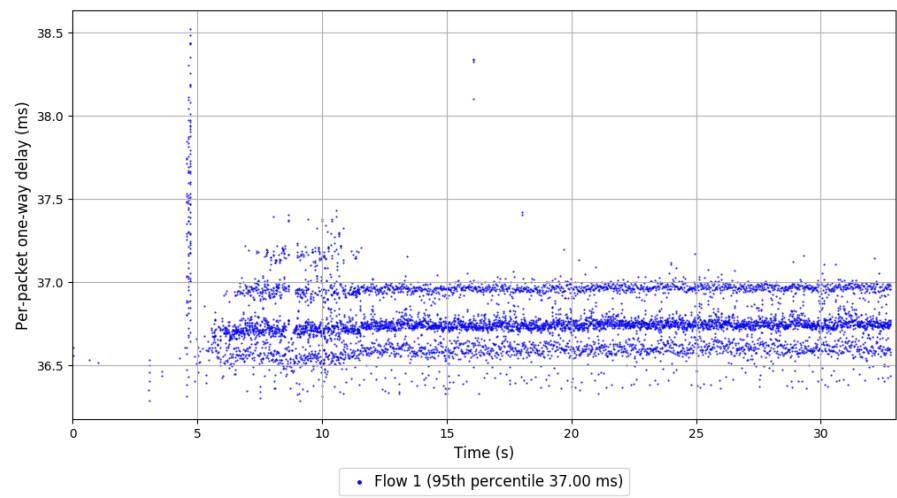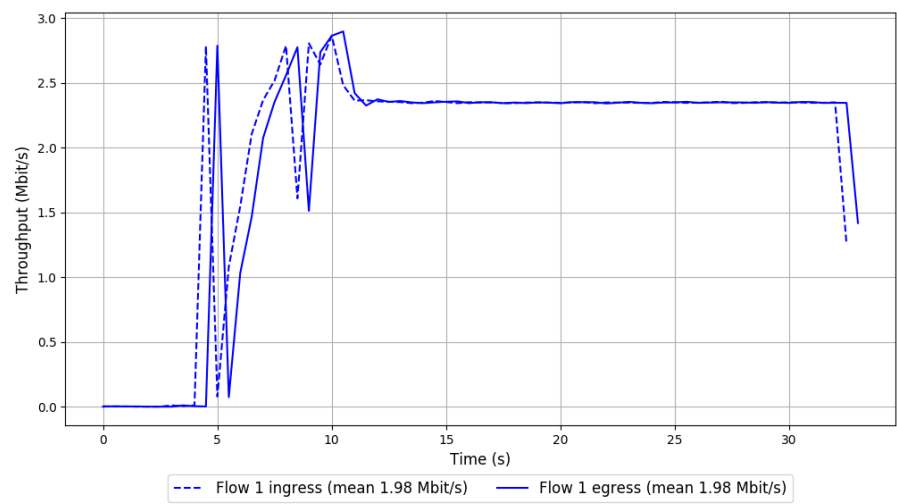
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2018-07-09 21:50:56
End at: 2018-07-09 21:51:27
Local clock offset: -0.737 ms
Remote clock offset: 3.894 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 37.772 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 37.772 ms
Loss rate: 0.00%
```
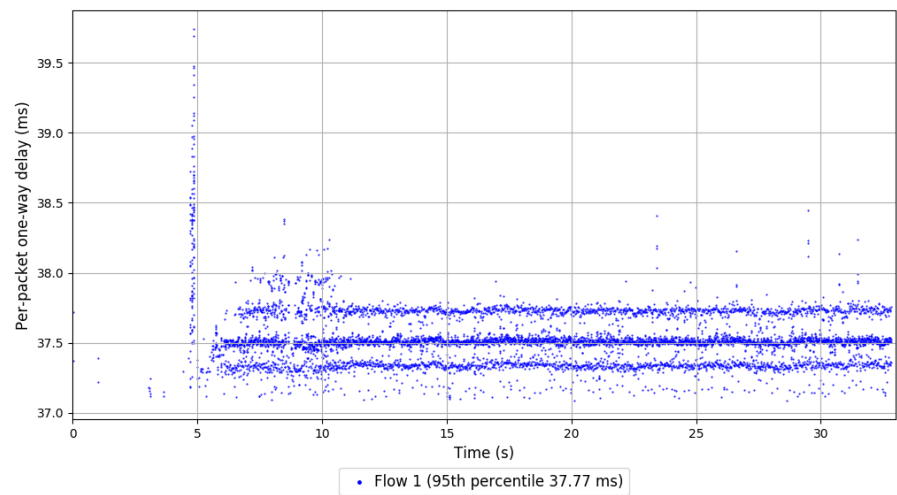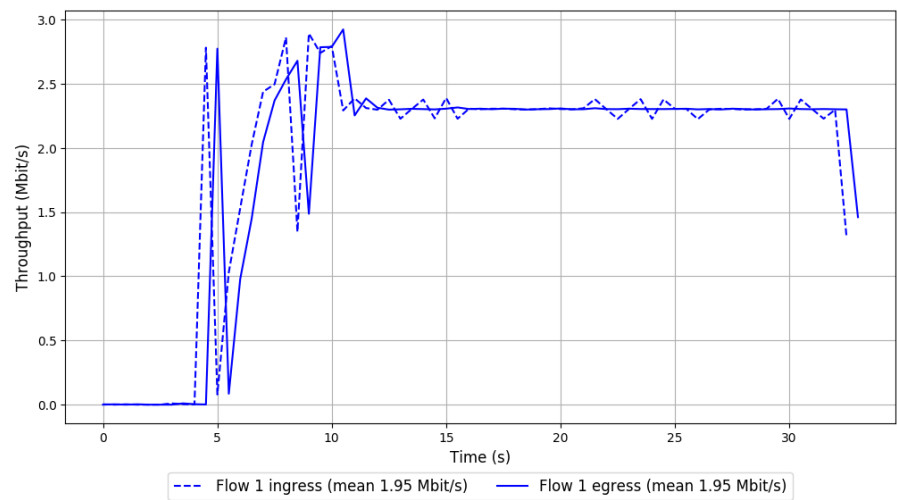
Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2018-07-09 22:14:26
End at: 2018-07-09 22:14:56
Local clock offset: -0.91 ms
Remote clock offset: 3.804 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 36.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 36.899 ms
Loss rate: 0.00%
```
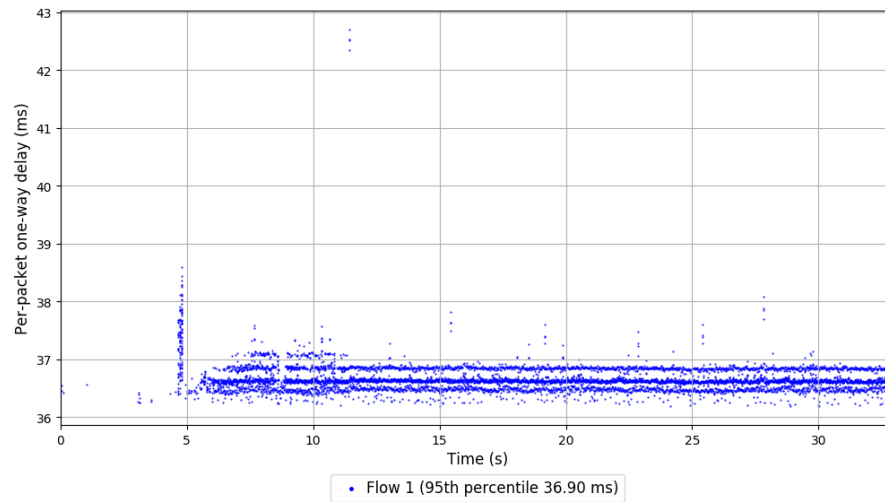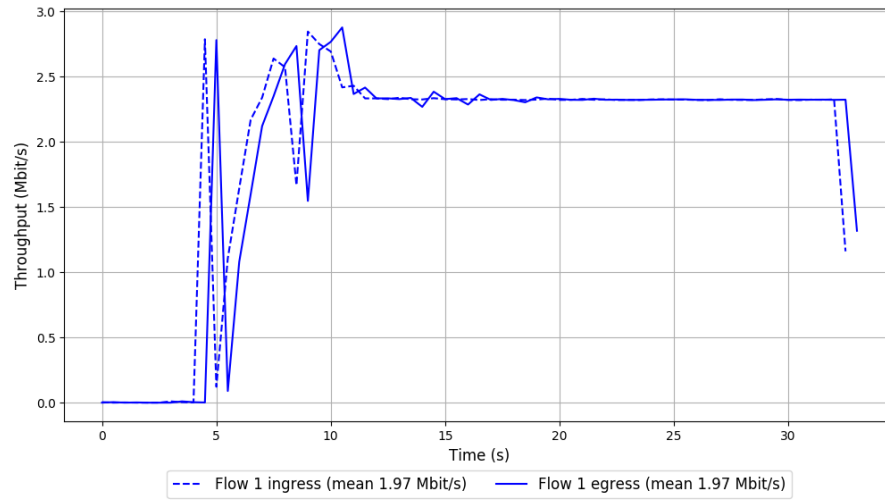
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-07-09 22:37:42
End at: 2018-07-09 22:38:12
Local clock offset: -1.54 ms
Remote clock offset: 3.864 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 37.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 37.727 ms
Loss rate: 0.00%
```
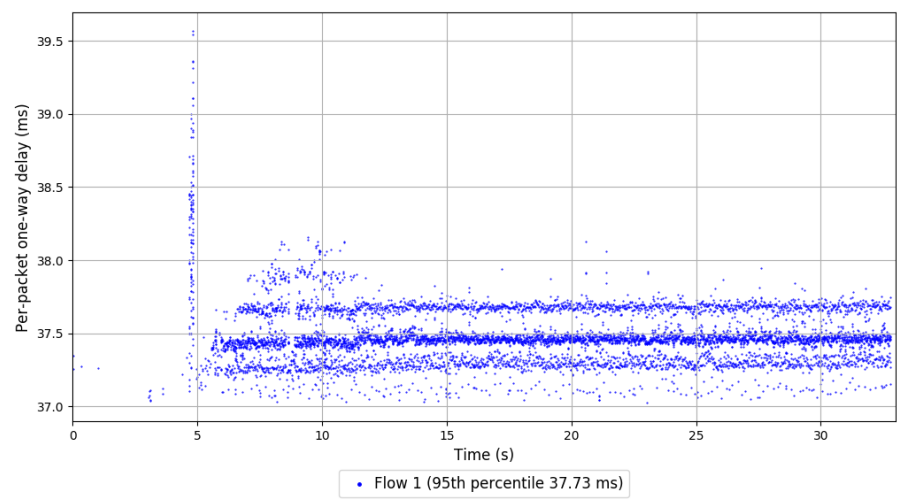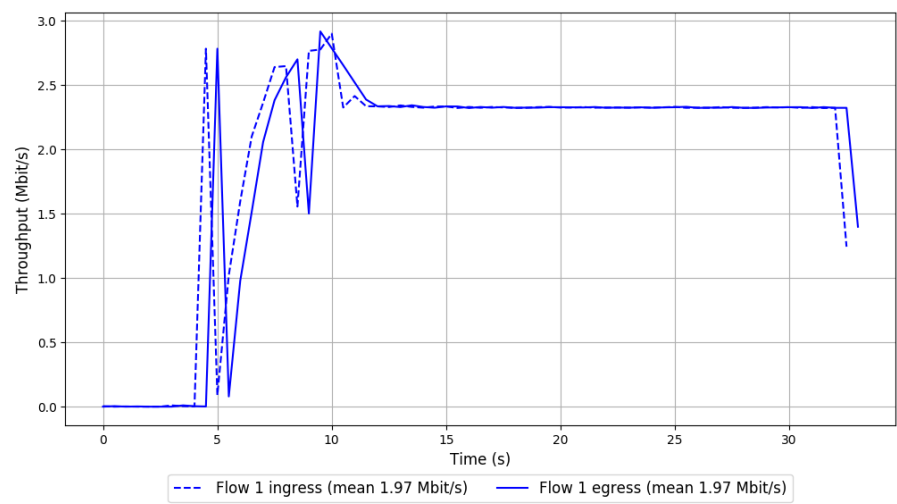
Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-07-09 23:02:12
End at: 2018-07-09 23:02:42
Local clock offset: -1.586 ms
Remote clock offset: 3.347 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 37.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 37.579 ms
Loss rate: 0.00%
```
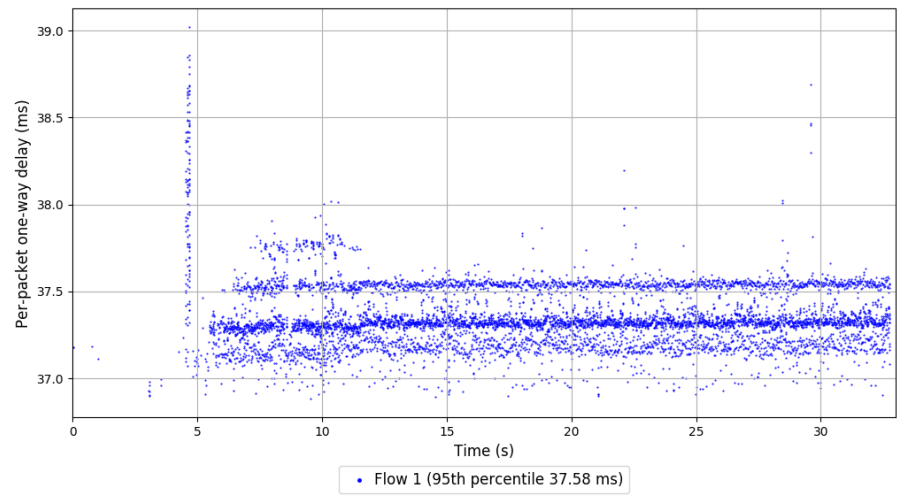
Run 8: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.99 Mbit/s) --- Flow 1 egress (mean 1.99 Mbit/s)

Flow 1 (95th percentile 37.58 ms)

```
Run 9: Statistics of WebRTC media

Start at: 2018-07-09 23:26:23
End at: 2018-07-09 23:26:53
Local clock offset: -1.77 ms
Remote clock offset: 3.402 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 37.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 37.041 ms
Loss rate: 0.00%
```
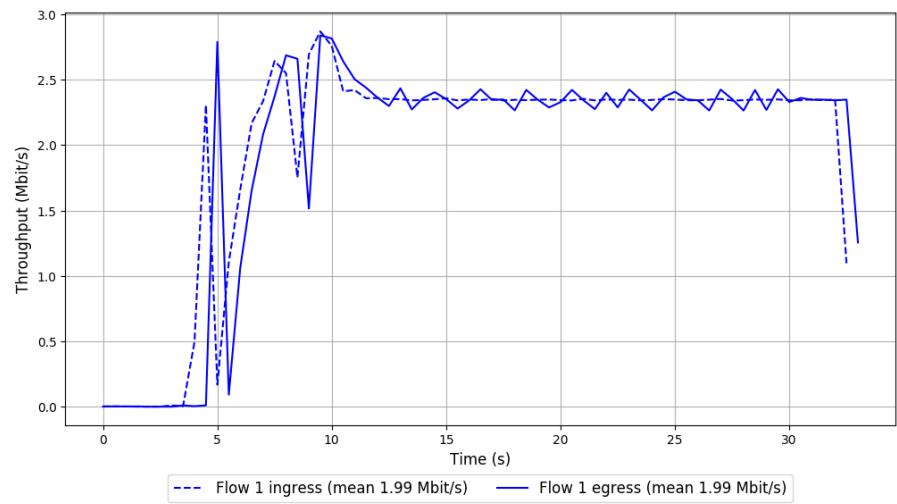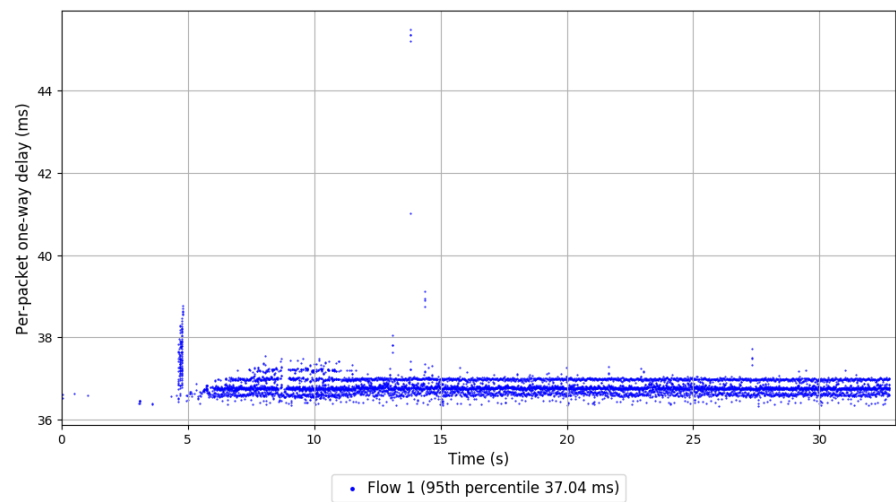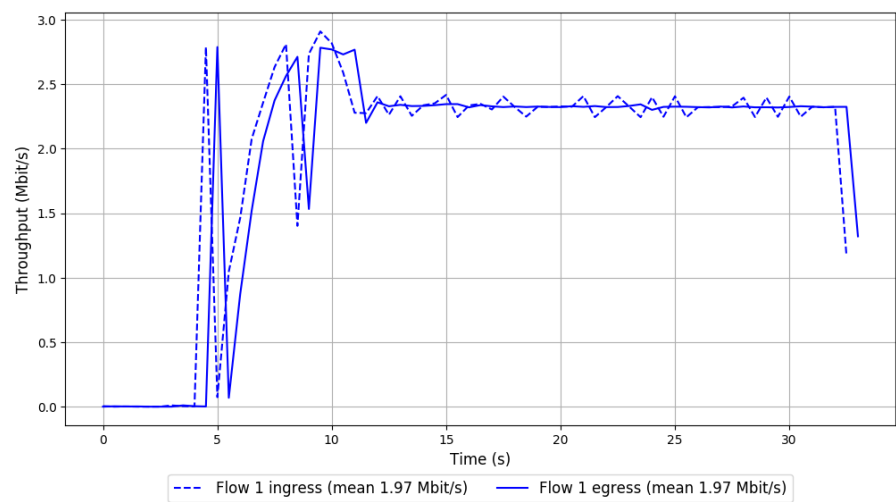
Run 9: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.97 Mbit/s) --- Flow 1 egress (mean 1.97 Mbit/s)

Flow 1 (95th percentile 37.04 ms)

```
Run 10: Statistics of WebRTC media

Start at: 2018-07-09 23:50:58
End at: 2018-07-09 23:51:28
Local clock offset: -1.645 ms
Remote clock offset: 3.699 ms


# Below is generated by plot.py at 2018-07-10 00:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 36.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 36.978 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link