Pantheon Report

Generated at 2018-07-03 13:53:31 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

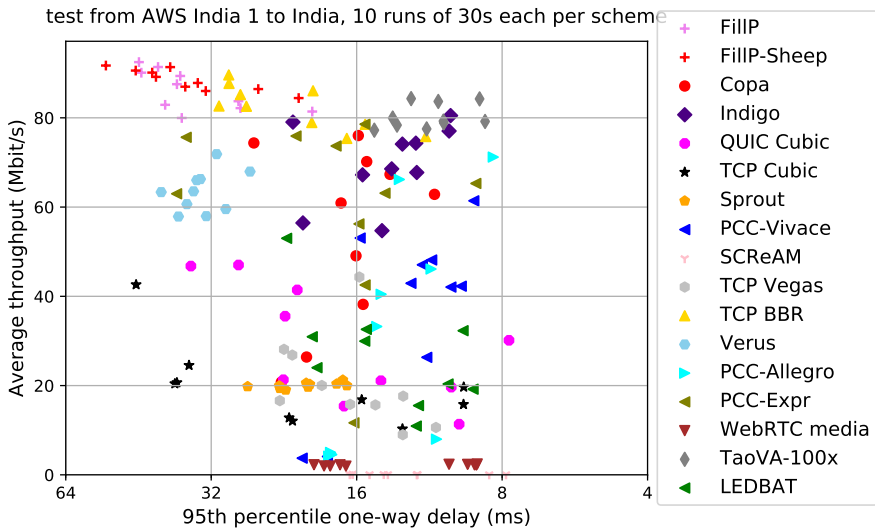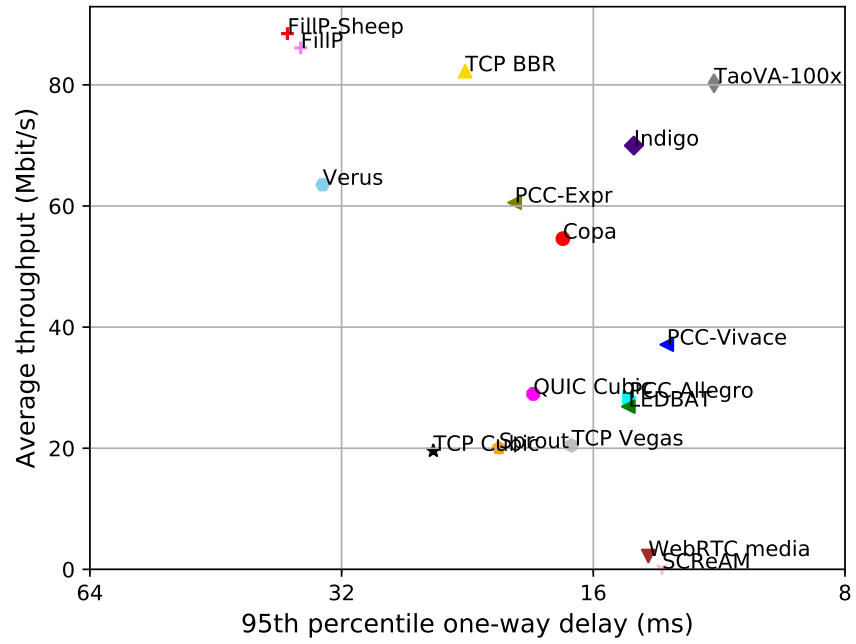Each test lasted for 30 seconds running 1 flow.

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

NTP offsets were measured against `nets.org.sg` 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 India 1 to India, 10 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS India 1 to India, 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	82.25	22.77	9.45
Copa	10	54.61	17.40	5.10
TCP Cubic	10	19.57	24.86	0.42
FillP	10	86.11	35.82	11.22
FillP-Sheep	10	88.46	37.15	10.18
Indigo	10	69.97	14.31	6.86
LEDBAT	10	26.88	14.53	0.34
PCC-Allegro	10	28.35	14.48	2.40
PCC-Expr	10	60.56	19.87	6.78
QUIC Cubic	10	28.97	18.88	1.22
SCReAM	10	0.14	13.24	0.86
Sprout	10	20.03	20.75	0.91
TaoVA-100x	10	80.26	11.48	8.74
TCP Vegas	10	20.46	16.99	0.49
Verus	10	63.51	33.71	7.79
PCC-Vivace	10	37.11	13.07	4.54
WebRTC media	10	2.20	13.75	0.52

```
Run 1: Statistics of TCP BBR

Start at: 2018-07-03 10:28:34
End at: 2018-07-03 10:29:04
Local clock offset: -5.119 ms
Remote clock offset: 1.298 ms

# Below is generated by plot.py at 2018-07-03 13:38:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.20 Mbit/s
95th percentile per-packet one-way delay: 27.842 ms
Loss rate: 8.70%
-- Flow 1:
Average throughput: 85.20 Mbit/s
95th percentile per-packet one-way delay: 27.842 ms
Loss rate: 8.70%
```
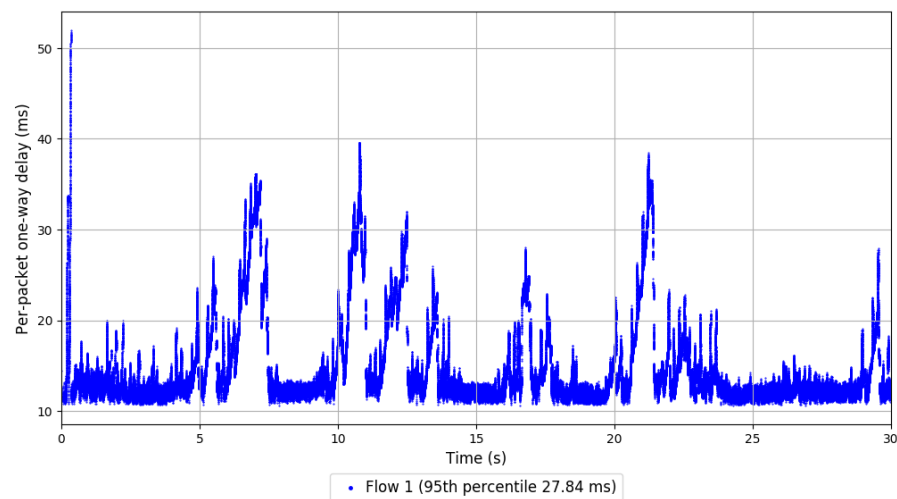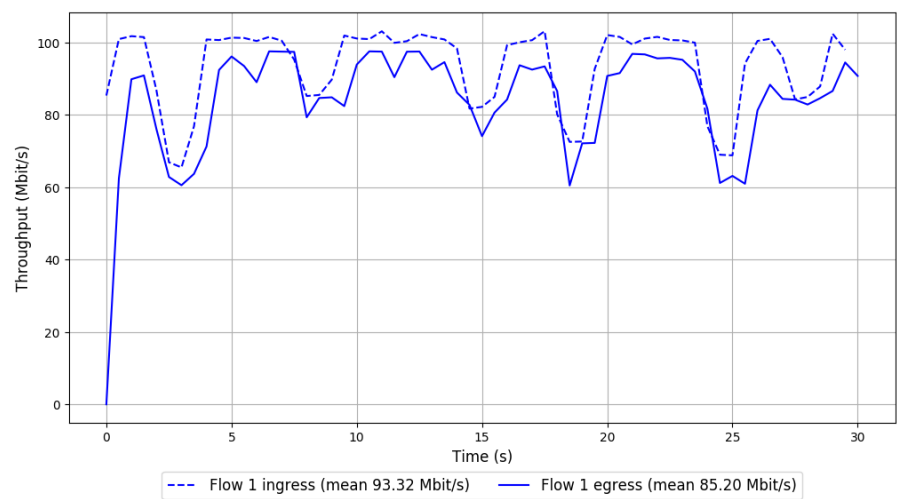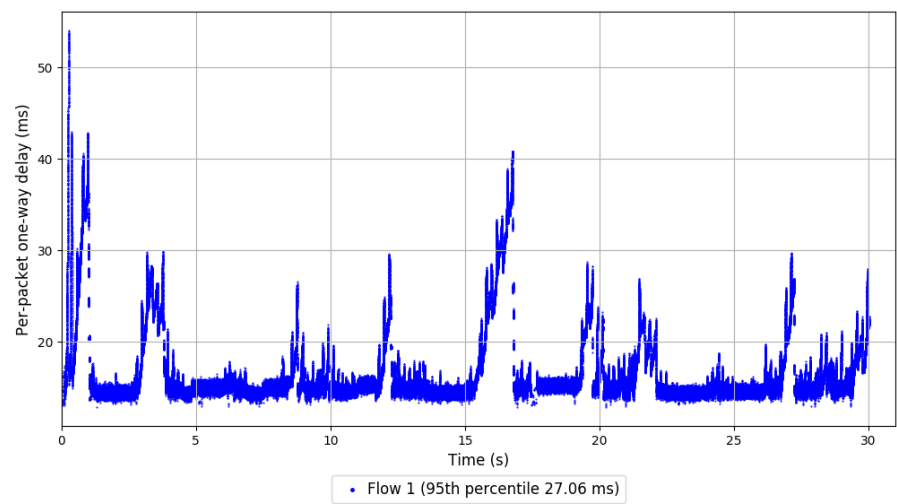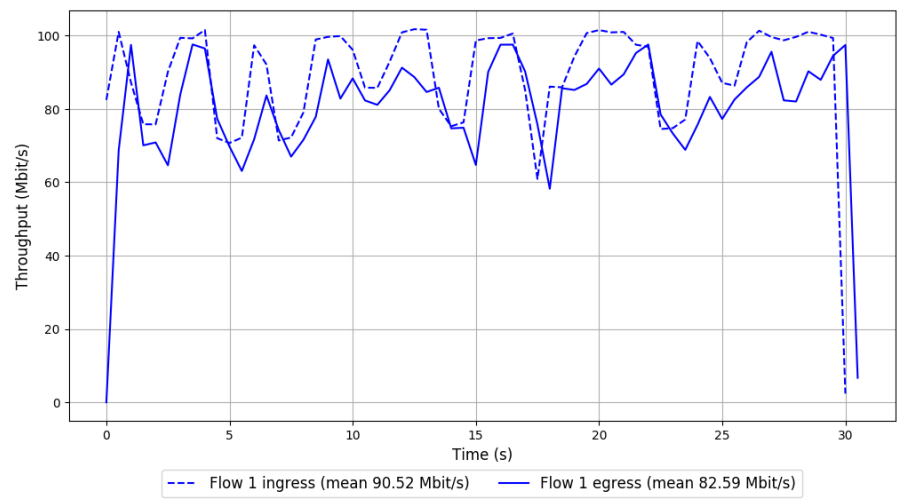
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.32 Mbit/s)   Flow 1 egress (mean 85.20 Mbit/s)

• Flow 1 (95th percentile 27.84 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2018-07-03 10:48:09
End at: 2018-07-03 10:48:39
Local clock offset: -3.758 ms
Remote clock offset: 5.837 ms


# Below is generated by plot.py at 2018-07-03 13:38:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 27.061 ms
Loss rate: 8.73%
-- Flow 1:
Average throughput: 82.59 Mbit/s
95th percentile per-packet one-way delay: 27.061 ms
Loss rate: 8.73%
```

Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2018-07-03 11:07:34
End at: 2018-07-03 11:08:04
Local clock offset: -5.763 ms
Remote clock offset: 4.407 ms


# Below is generated by plot.py at 2018-07-03 13:38:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.39 Mbit/s
95th percentile per-packet one-way delay: 16.771 ms
Loss rate: 10.83%
-- Flow 1:
Average throughput: 75.39 Mbit/s
95th percentile per-packet one-way delay: 16.771 ms
Loss rate: 10.83%
```
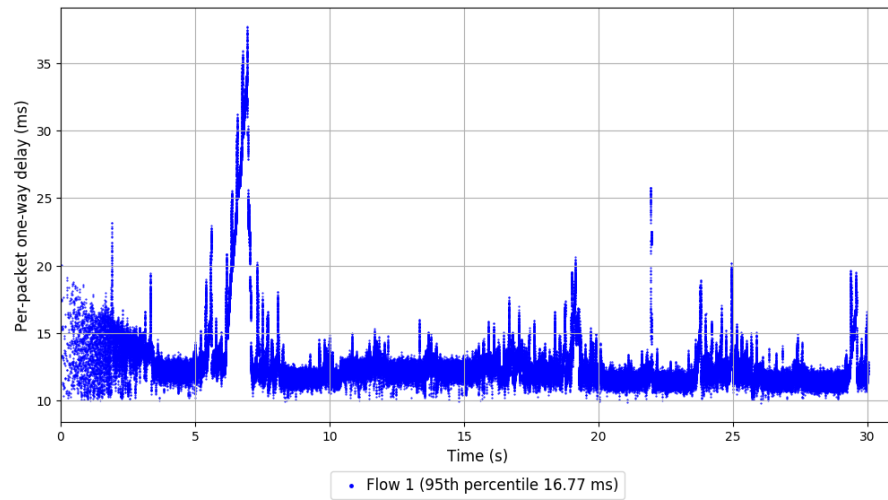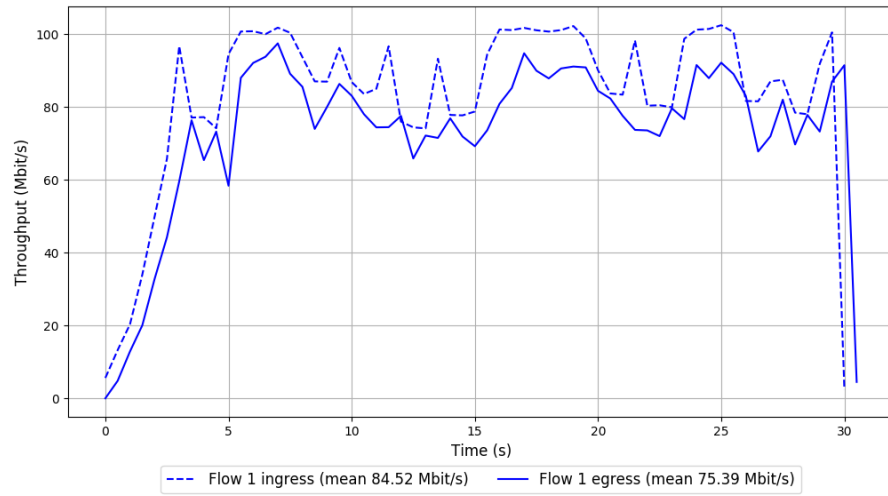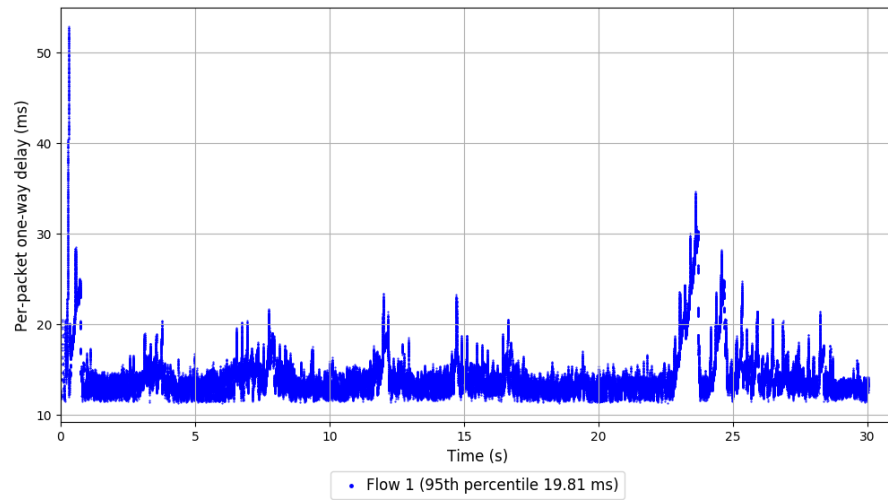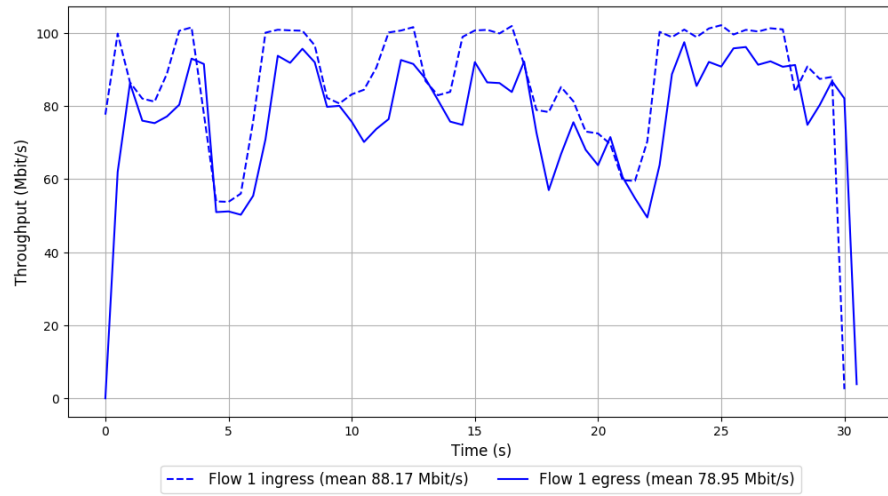
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 84.52 Mbit/s)   Flow 1 egress (mean 75.39 Mbit/s)

• Flow 1 (95th percentile 16.77 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2018-07-03 11:27:02
End at: 2018-07-03 11:27:32
Local clock offset: -9.429 ms
Remote clock offset: 5.14 ms


# Below is generated by plot.py at 2018-07-03 13:38:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.95 Mbit/s
95th percentile per-packet one-way delay: 19.814 ms
Loss rate: 10.46%
-- Flow 1:
Average throughput: 78.95 Mbit/s
95th percentile per-packet one-way delay: 19.814 ms
Loss rate: 10.46%
```
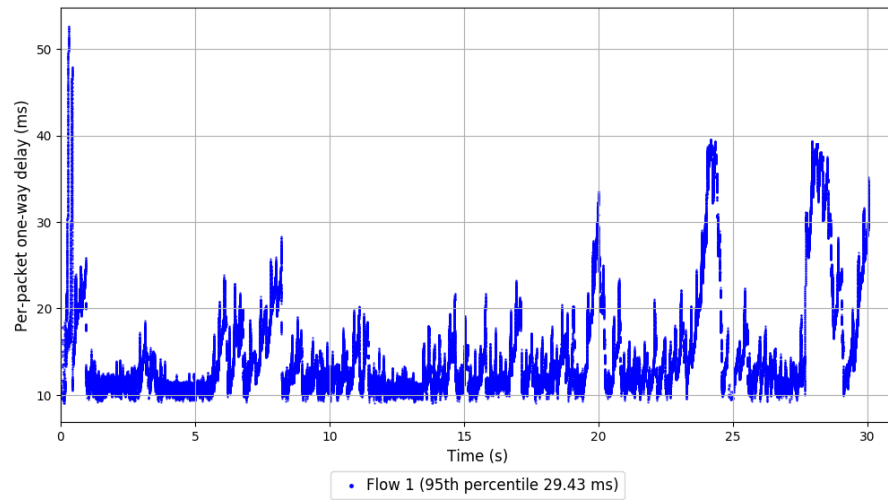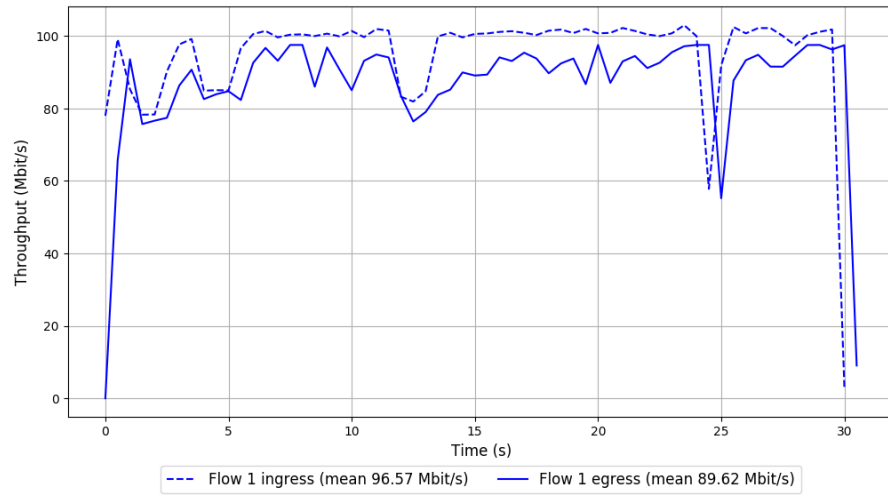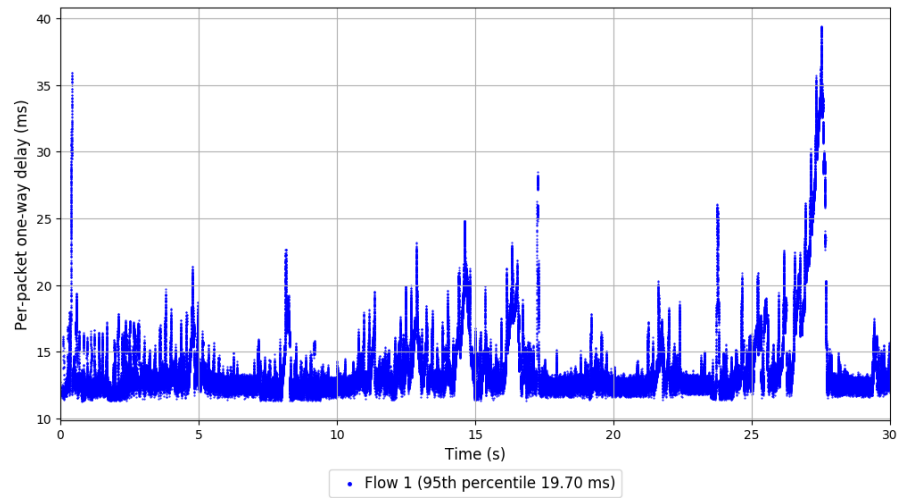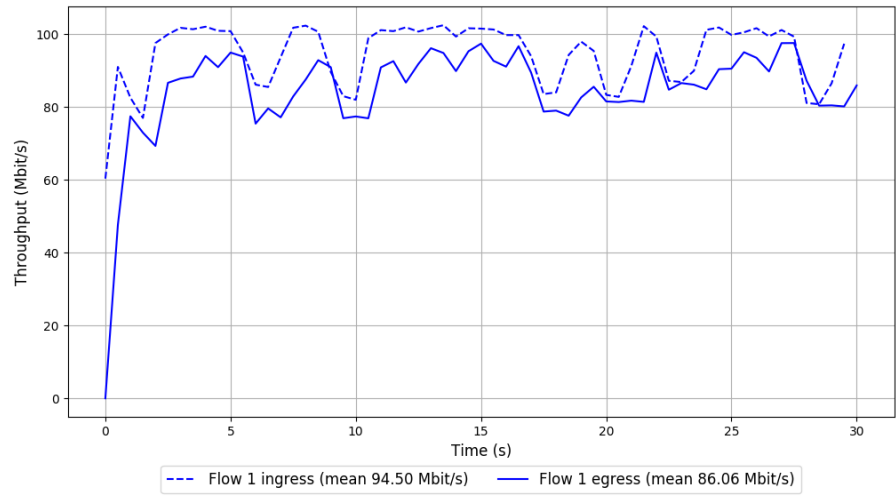
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 88.17 Mbit/s)   Flow 1 egress (mean 78.95 Mbit/s)

Flow 1 (95th percentile 19.81 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2018-07-03 11:46:27
End at: 2018-07-03 11:46:57
Local clock offset: -5.141 ms
Remote clock offset: 3.574 ms


# Below is generated by plot.py at 2018-07-03 13:38:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 29.432 ms
Loss rate: 7.12%
-- Flow 1:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 29.432 ms
Loss rate: 7.12%
```

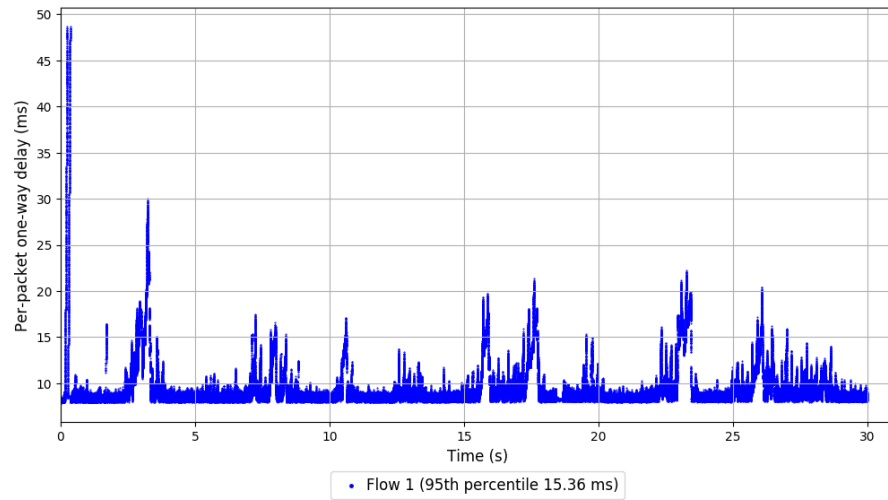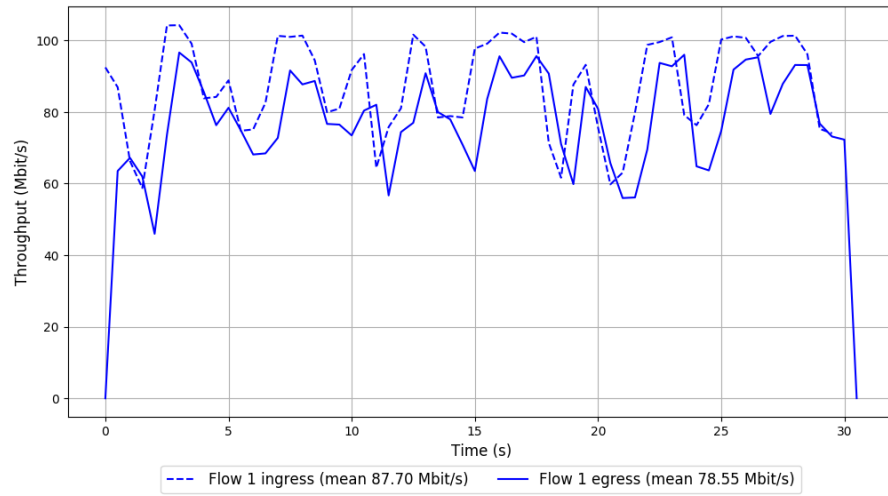Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.57 Mbit/s)   Flow 1 egress (mean 89.62 Mbit/s)

• Flow 1 (95th percentile 29.43 ms)

13

```
Run 6: Statistics of TCP BBR

Start at: 2018-07-03 12:05:40
End at: 2018-07-03 12:06:10
Local clock offset: -7.538 ms
Remote clock offset: -5.516 ms


# Below is generated by plot.py at 2018-07-03 13:38:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 19.697 ms
Loss rate: 8.93%
-- Flow 1:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 19.697 ms
Loss rate: 8.93%
```
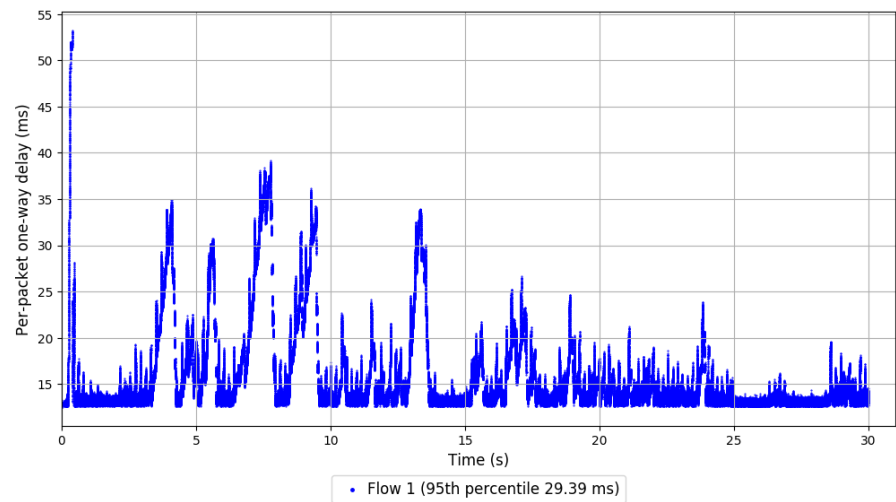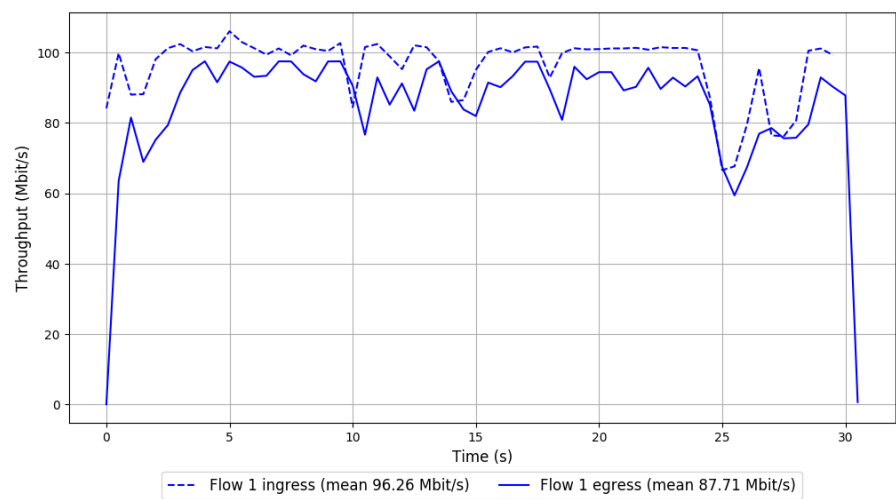
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.50 Mbit/s) --- Flow 1 egress (mean 86.06 Mbit/s)

Flow 1 (95th percentile 19.70 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-07-03 12:24:57
End at: 2018-07-03 12:25:27
Local clock offset: -5.538 ms
Remote clock offset: -10.046 ms


# Below is generated by plot.py at 2018-07-03 13:38:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 15.359 ms
Loss rate: 10.43%
-- Flow 1:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 15.359 ms
Loss rate: 10.43%
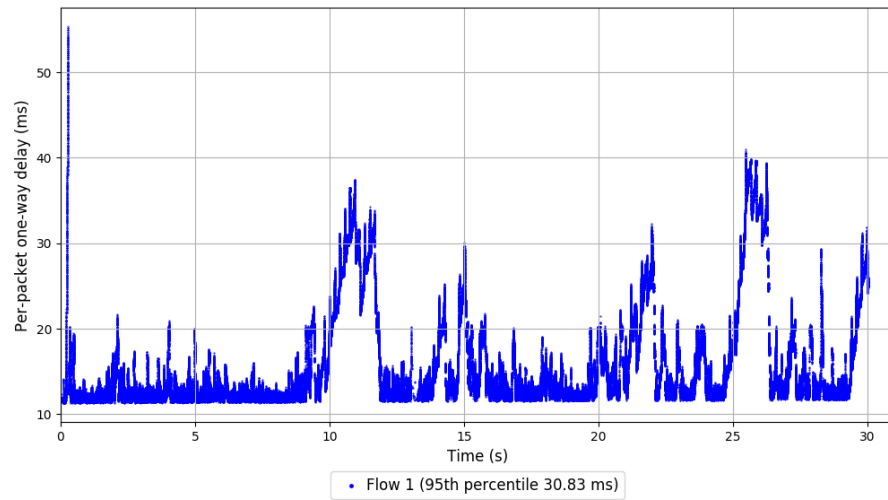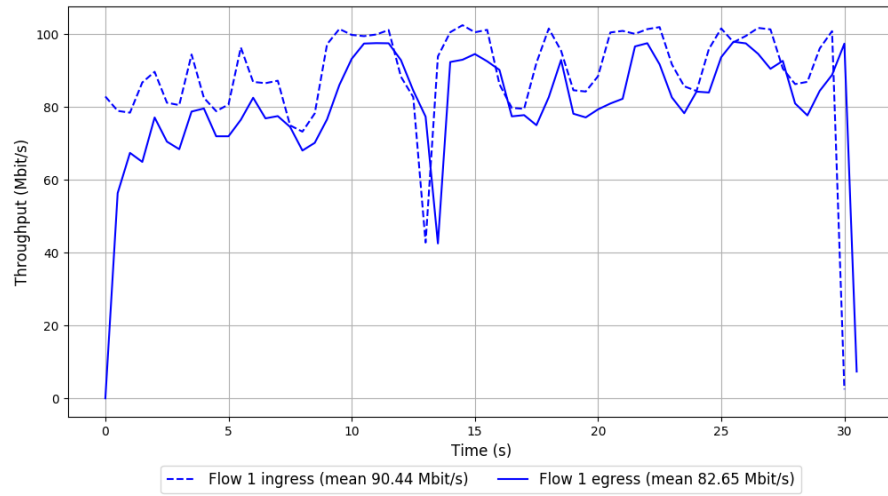```

Run 7: Report of TCP BBR — Data Link



Flow 1 ingress (mean 87.70 Mbit/s)　　Flow 1 egress (mean 78.55 Mbit/s)



Flow 1 (95th percentile 15.36 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-07-03 12:44:11
End at: 2018-07-03 12:44:41
Local clock offset: -11.217 ms
Remote clock offset: -8.628 ms


# Below is generated by plot.py at 2018-07-03 13:38:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 29.392 ms
Loss rate: 8.88%
-- Flow 1:
Average throughput: 87.71 Mbit/s
95th percentile per-packet one-way delay: 29.392 ms
Loss rate: 8.88%
```

Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.26 Mbit/s)   Flow 1 egress (mean 87.71 Mbit/s)

• Flow 1 (95th percentile 29.39 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-07-03 13:03:31
End at: 2018-07-03 13:04:01
Local clock offset: -9.555 ms
Remote clock offset: -9.283 ms


# Below is generated by plot.py at 2018-07-03 13:39:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.65 Mbit/s
95th percentile per-packet one-way delay: 30.830 ms
Loss rate: 8.58%
-- Flow 1:
Average throughput: 82.65 Mbit/s
95th percentile per-packet one-way delay: 30.830 ms
Loss rate: 8.58%
```
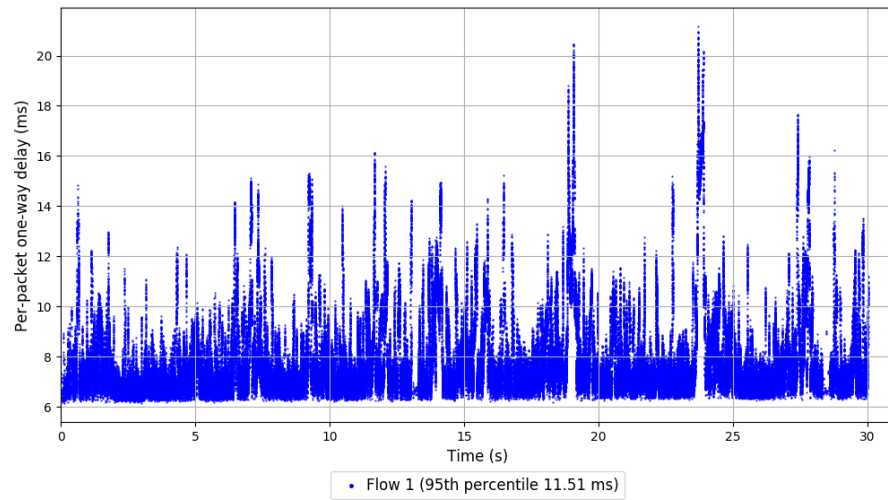
Run 9: Report of TCP BBR — Data Link

```
Run 10: Statistics of TCP BBR

Start at: 2018-07-03 13:22:53
End at: 2018-07-03 13:23:23
Local clock offset: 5.99 ms
Remote clock offset: -6.853 ms

# Below is generated by plot.py at 2018-07-03 13:39:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 11.512 ms
Loss rate: 11.87%
-- Flow 1:
Average throughput: 75.81 Mbit/s
95th percentile per-packet one-way delay: 11.512 ms
Loss rate: 11.87%
```
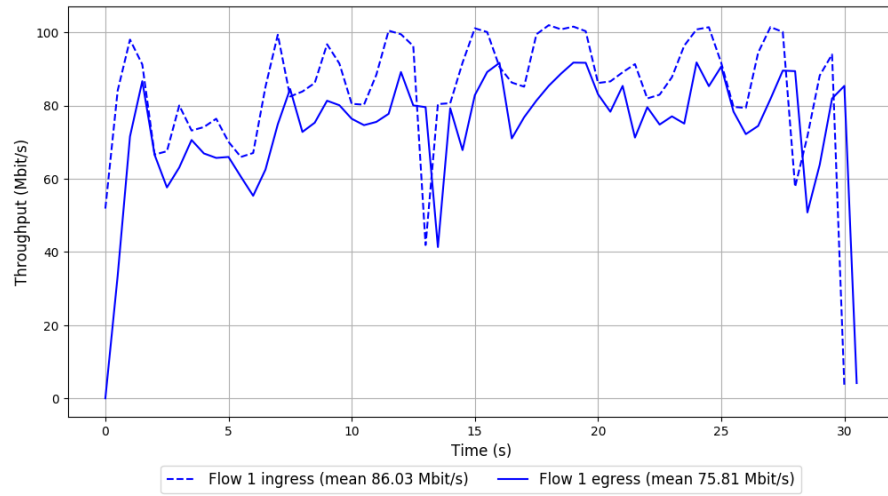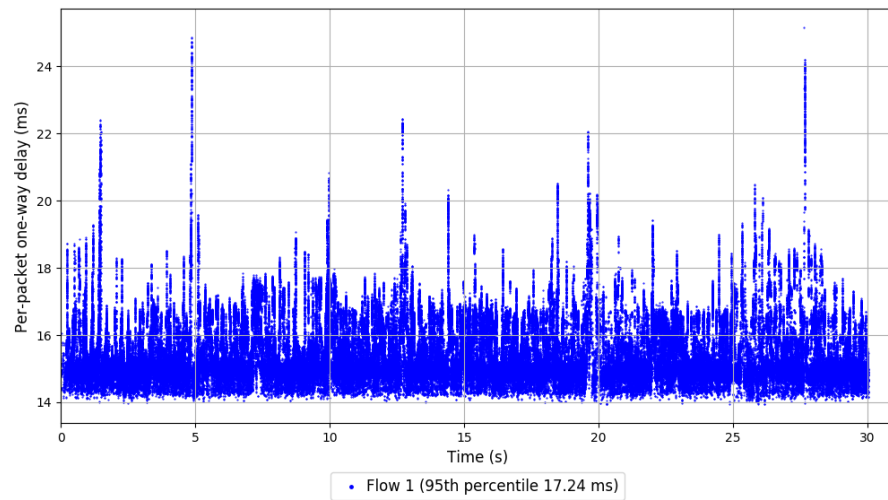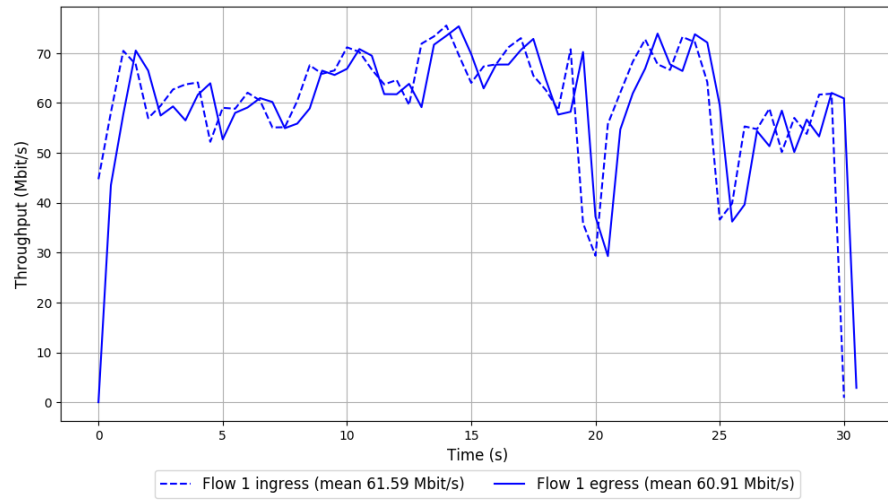
Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 86.03 Mbit/s)   Flow 1 egress (mean 75.81 Mbit/s)

Flow 1 (95th percentile 11.51 ms)

```
Run 1: Statistics of Copa

Start at: 2018-07-03 10:32:03
End at: 2018-07-03 10:32:33
Local clock offset: -4.658 ms
Remote clock offset: 1.268 ms

# Below is generated by plot.py at 2018-07-03 13:39:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.91 Mbit/s
95th percentile per-packet one-way delay: 17.236 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 60.91 Mbit/s
95th percentile per-packet one-way delay: 17.236 ms
Loss rate: 1.11%
```
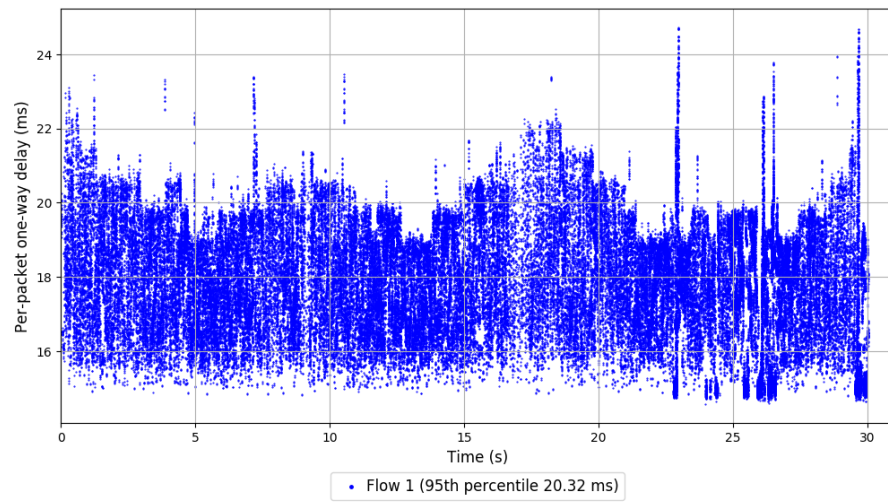
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2018-07-03 10:51:44
End at: 2018-07-03 10:52:14
Local clock offset: -6.119 ms
Remote clock offset: 6.033 ms

# Below is generated by plot.py at 2018-07-03 13:39:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.40 Mbit/s
95th percentile per-packet one-way delay: 20.317 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 26.40 Mbit/s
95th percentile per-packet one-way delay: 20.317 ms
Loss rate: 2.09%
```
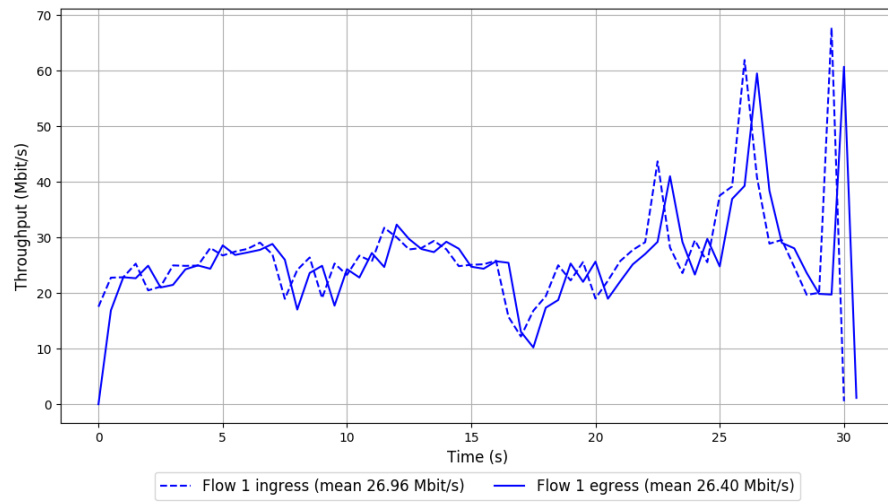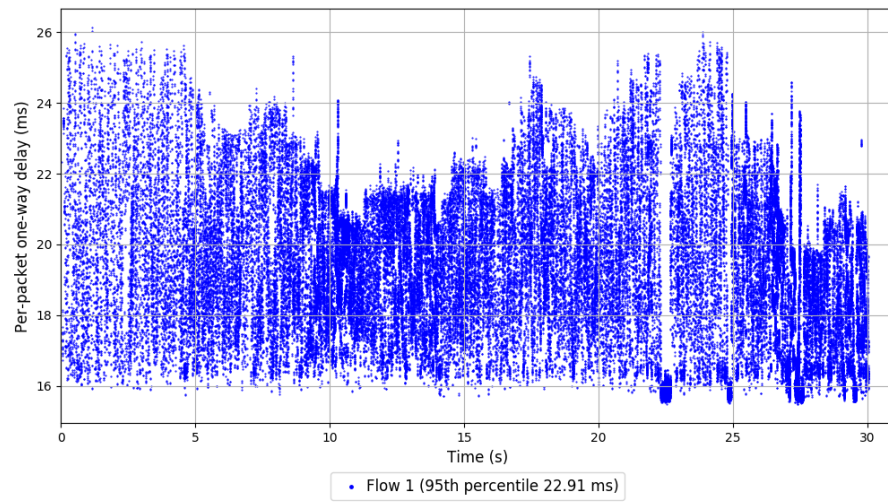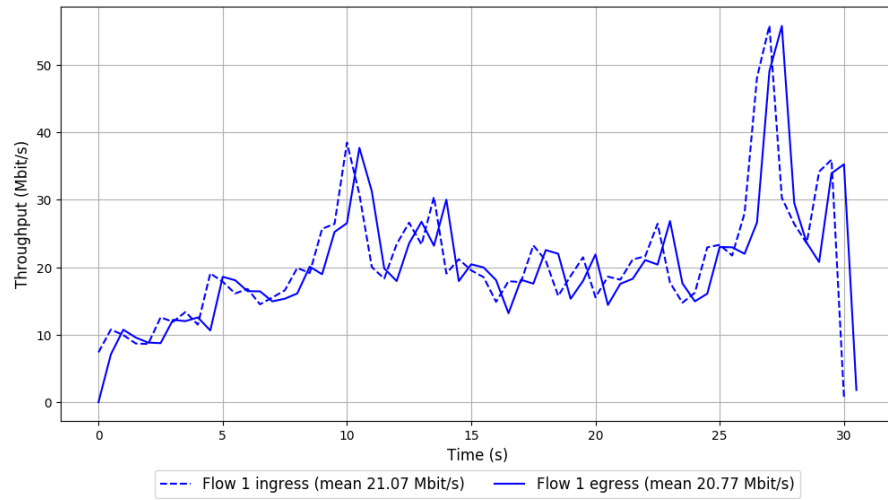
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2018-07-03 11:11:07
End at: 2018-07-03 11:11:37
Local clock offset: -10.248 ms
Remote clock offset: 6.73 ms


# Below is generated by plot.py at 2018-07-03 13:39:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.77 Mbit/s
95th percentile per-packet one-way delay: 22.910 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 20.77 Mbit/s
95th percentile per-packet one-way delay: 22.910 ms
Loss rate: 1.44%
```

Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2018-07-03 11:30:36
End at: 2018-07-03 11:31:06
Local clock offset: -9.305 ms
Remote clock offset: 4.876 ms


# Below is generated by plot.py at 2018-07-03 13:39:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.07 Mbit/s
95th percentile per-packet one-way delay: 16.051 ms
Loss rate: 5.18%
-- Flow 1:
Average throughput: 49.07 Mbit/s
95th percentile per-packet one-way delay: 16.051 ms
Loss rate: 5.18%
```
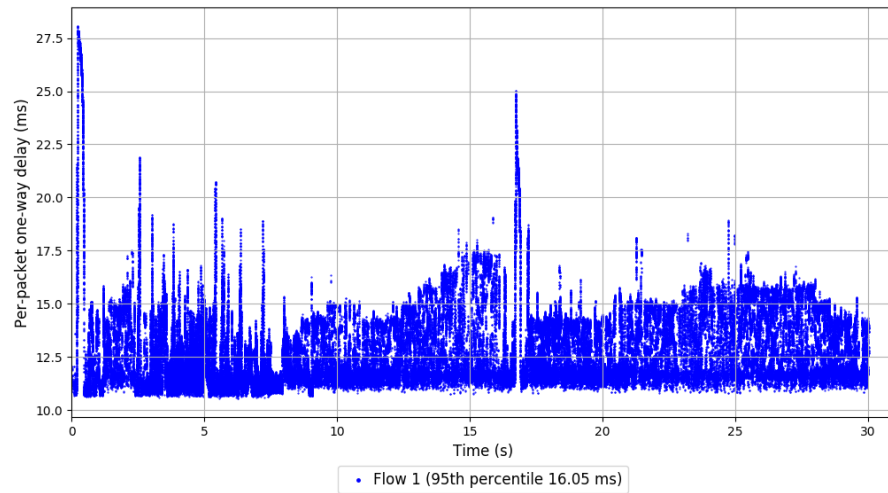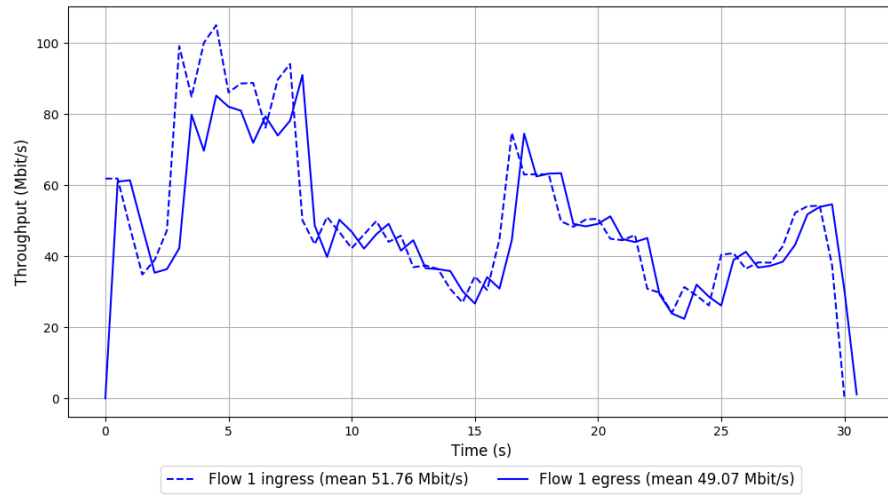
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2018-07-03 11:49:58
End at: 2018-07-03 11:50:28
Local clock offset: -7.094 ms
Remote clock offset: 3.926 ms


# Below is generated by plot.py at 2018-07-03 13:39:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 15.516 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 15.516 ms
Loss rate: 1.93%
```
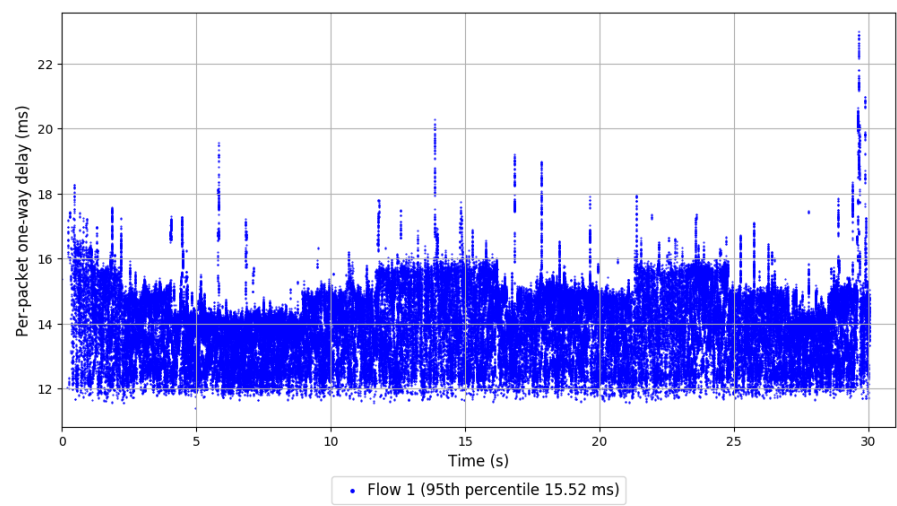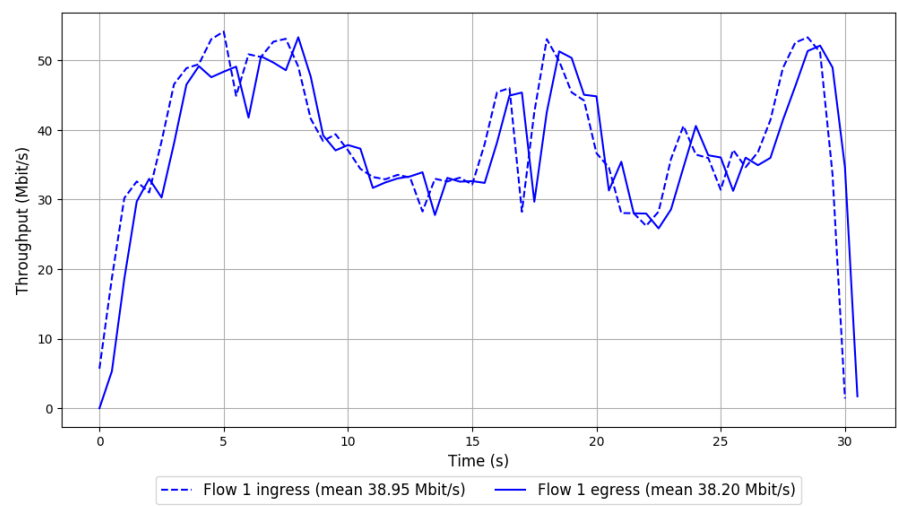
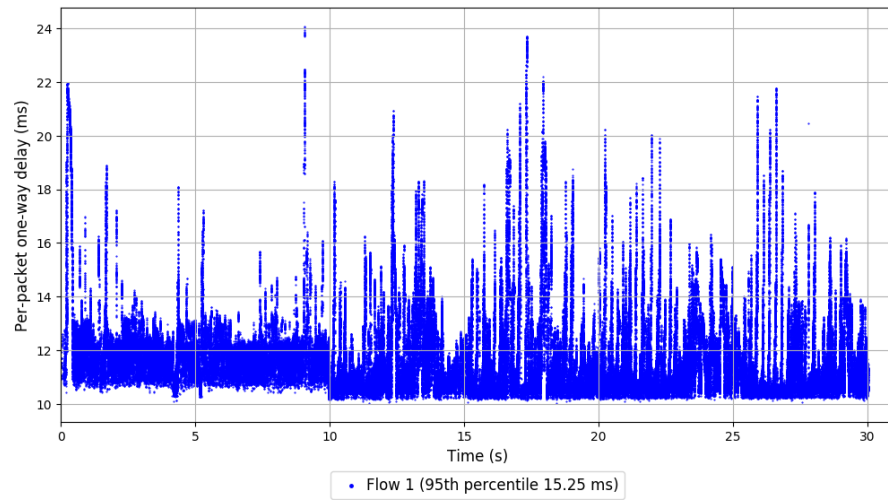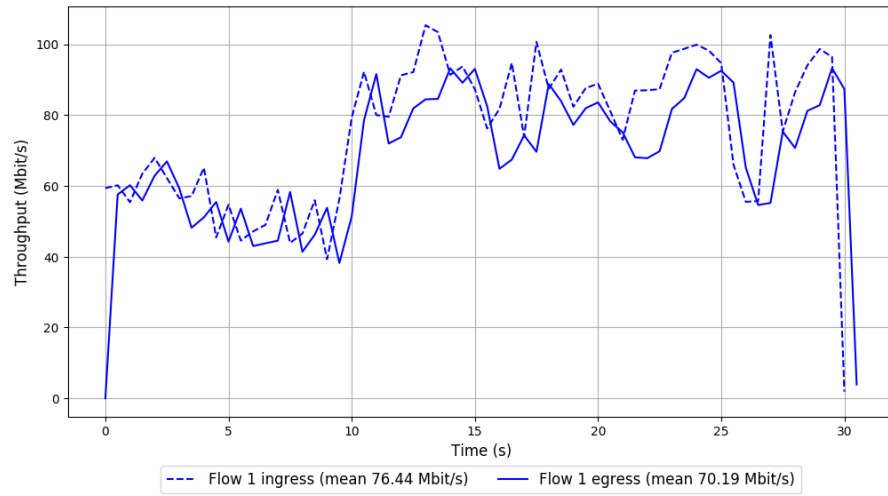Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: 2018-07-03 12:09:07
End at: 2018-07-03 12:09:37
Local clock offset: -5.934 ms
Remote clock offset: -5.617 ms


# Below is generated by plot.py at 2018-07-03 13:39:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.19 Mbit/s
95th percentile per-packet one-way delay: 15.252 ms
Loss rate: 8.19%
-- Flow 1:
Average throughput: 70.19 Mbit/s
95th percentile per-packet one-way delay: 15.252 ms
Loss rate: 8.19%
```

Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 76.44 Mbit/s) ---- Flow 1 egress (mean 70.19 Mbit/s)

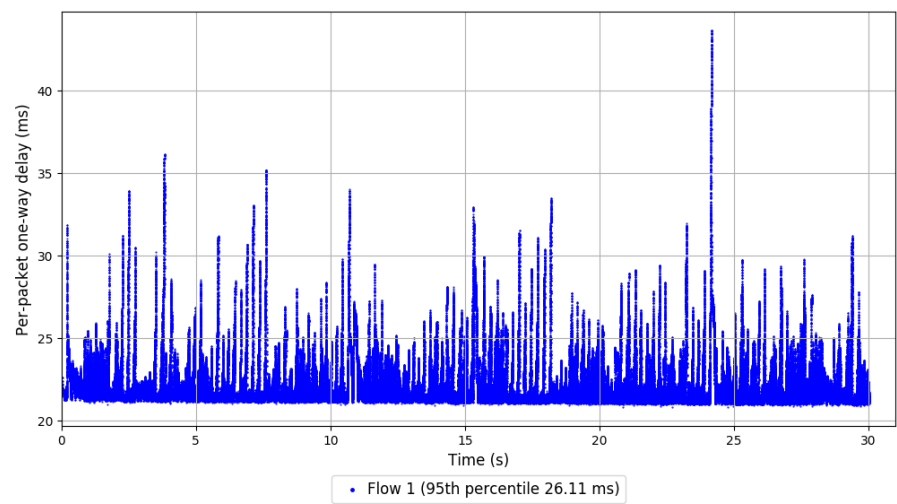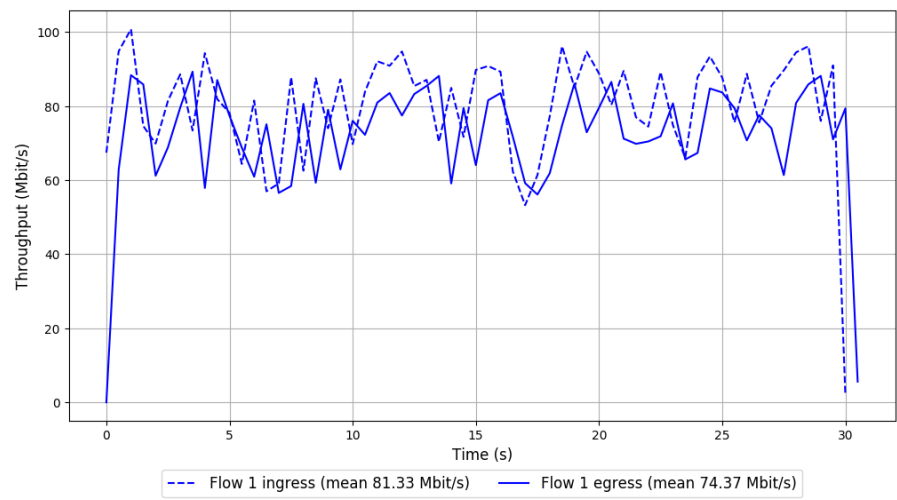• Flow 1 (95th percentile 15.25 ms)

```
Run 7: Statistics of Copa

Start at: 2018-07-03 12:28:28
End at: 2018-07-03 12:28:58
Local clock offset: -19.708 ms
Remote clock offset: -11.39 ms


# Below is generated by plot.py at 2018-07-03 13:40:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.37 Mbit/s
95th percentile per-packet one-way delay: 26.115 ms
Loss rate: 8.56%
-- Flow 1:
Average throughput: 74.37 Mbit/s
95th percentile per-packet one-way delay: 26.115 ms
Loss rate: 8.56%
```

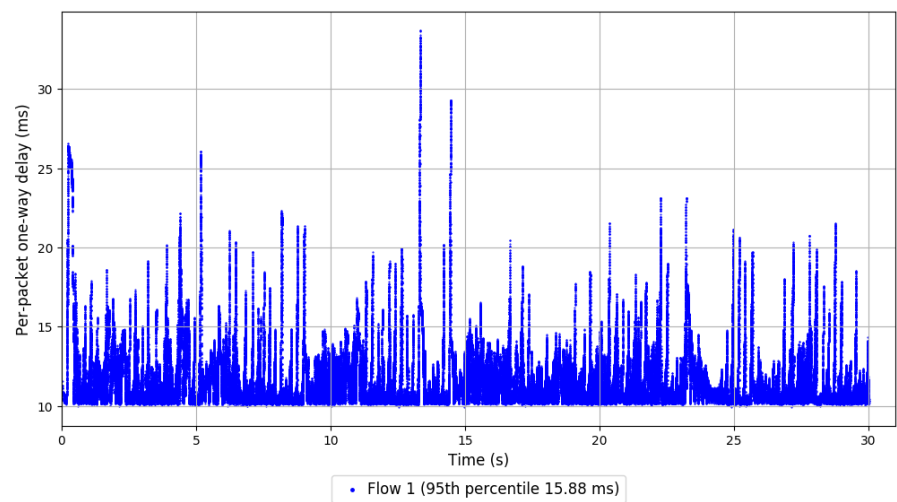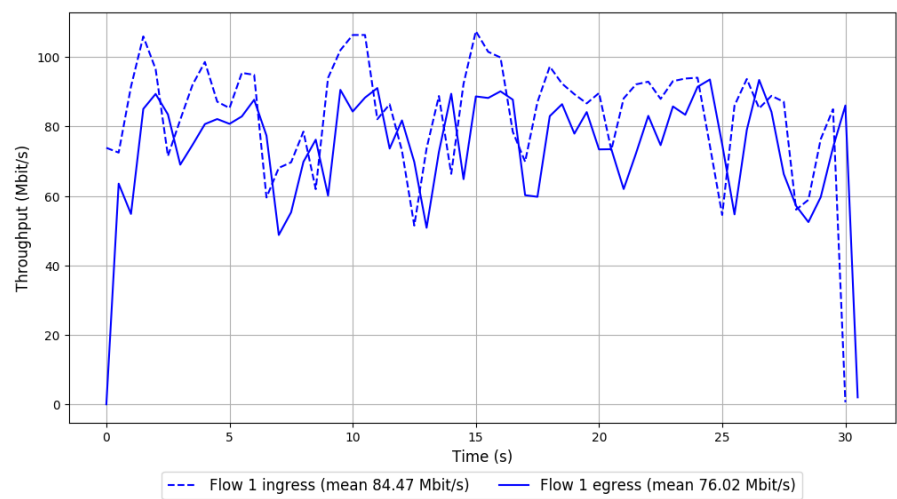Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: 2018-07-03 12:47:43
End at: 2018-07-03 12:48:13
Local clock offset: -15.312 ms
Remote clock offset: -15.23 ms


# Below is generated by plot.py at 2018-07-03 13:40:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.02 Mbit/s
95th percentile per-packet one-way delay: 15.875 ms
Loss rate: 10.00%
-- Flow 1:
Average throughput: 76.02 Mbit/s
95th percentile per-packet one-way delay: 15.875 ms
Loss rate: 10.00%
```
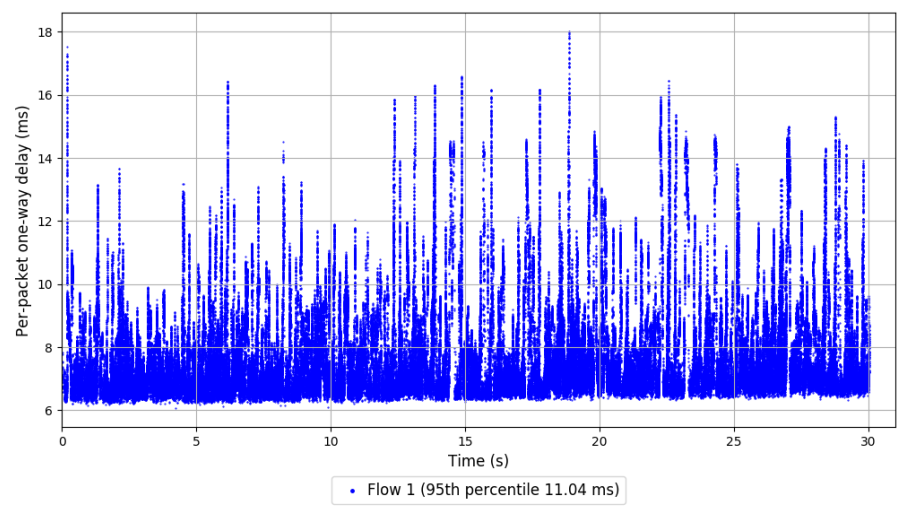
Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 84.47 Mbit/s)   Flow 1 egress (mean 76.02 Mbit/s)

Flow 1 (95th percentile 15.88 ms)

```
Run 9: Statistics of Copa

Start at: 2018-07-03 13:07:04
End at: 2018-07-03 13:07:34
Local clock offset: -1.99 ms
Remote clock offset: -9.166 ms


# Below is generated by plot.py at 2018-07-03 13:40:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.85 Mbit/s
95th percentile per-packet one-way delay: 11.041 ms
Loss rate: 6.10%
-- Flow 1:
Average throughput: 62.85 Mbit/s
95th percentile per-packet one-way delay: 11.041 ms
Loss rate: 6.10%
```
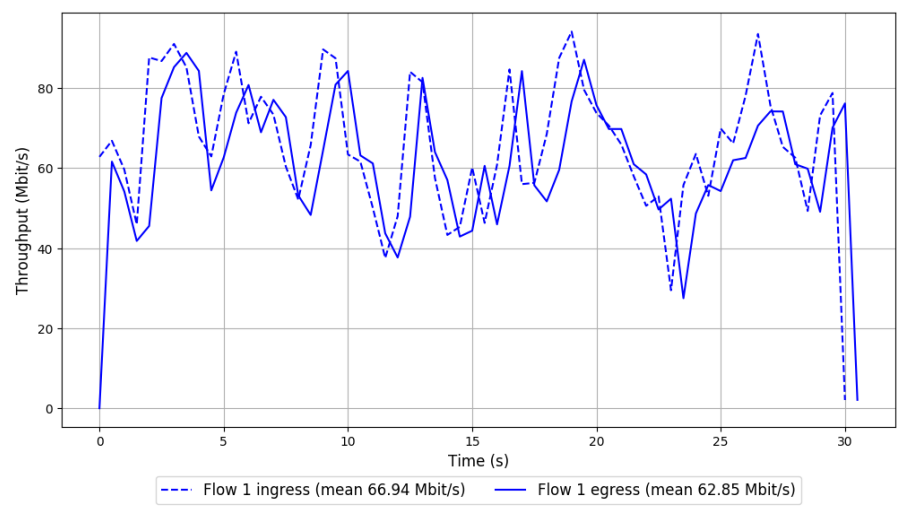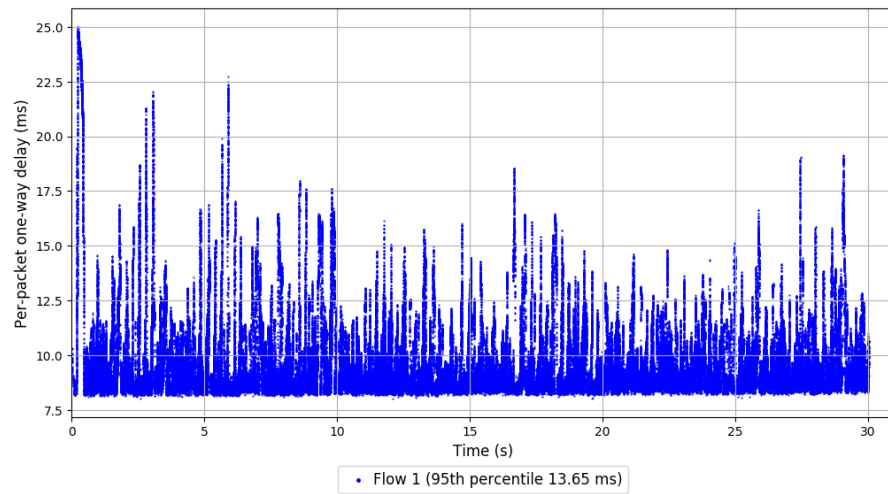
Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 66.94 Mbit/s)   Flow 1 egress (mean 62.85 Mbit/s)

Flow 1 (95th percentile 11.04 ms)

```
Run 10: Statistics of Copa

Start at: 2018-07-03 13:26:24
End at: 2018-07-03 13:26:54
Local clock offset: 4.873 ms
Remote clock offset: -6.84 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.33 Mbit/s
95th percentile per-packet one-way delay: 13.649 ms
Loss rate: 6.35%
-- Flow 1:
Average throughput: 67.33 Mbit/s
95th percentile per-packet one-way delay: 13.649 ms
Loss rate: 6.35%
```
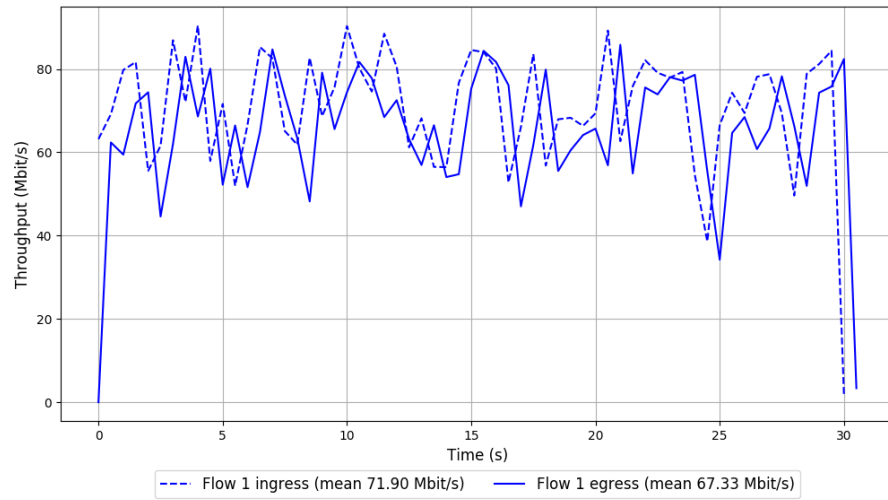
Run 10: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2018-07-03 10:33:16
End at: 2018-07-03 10:33:46
Local clock offset: -6.937 ms
Remote clock offset: 1.41 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 35.566 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 24.53 Mbit/s
95th percentile per-packet one-way delay: 35.566 ms
Loss rate: 0.65%
```
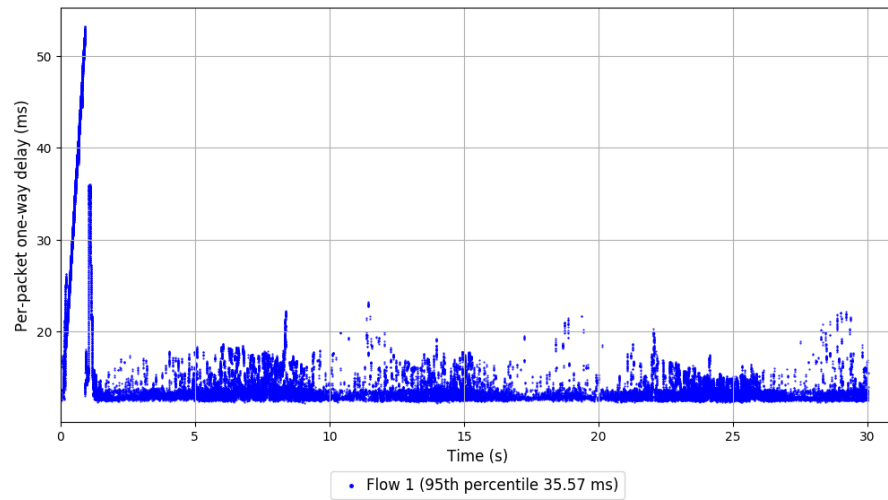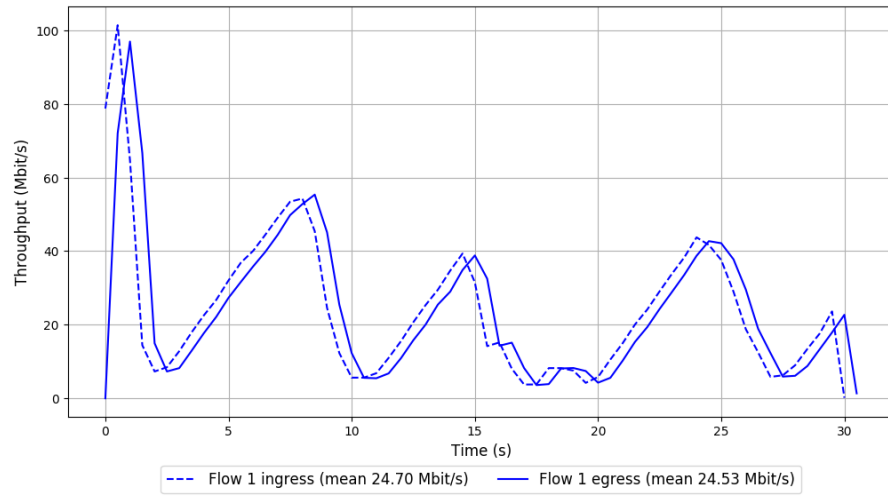
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2018-07-03 10:52:51
End at: 2018-07-03 10:53:21
Local clock offset: -6.211 ms
Remote clock offset: 6.185 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.78 Mbit/s
95th percentile per-packet one-way delay: 22.072 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 12.78 Mbit/s
95th percentile per-packet one-way delay: 22.072 ms
Loss rate: 0.52%
```
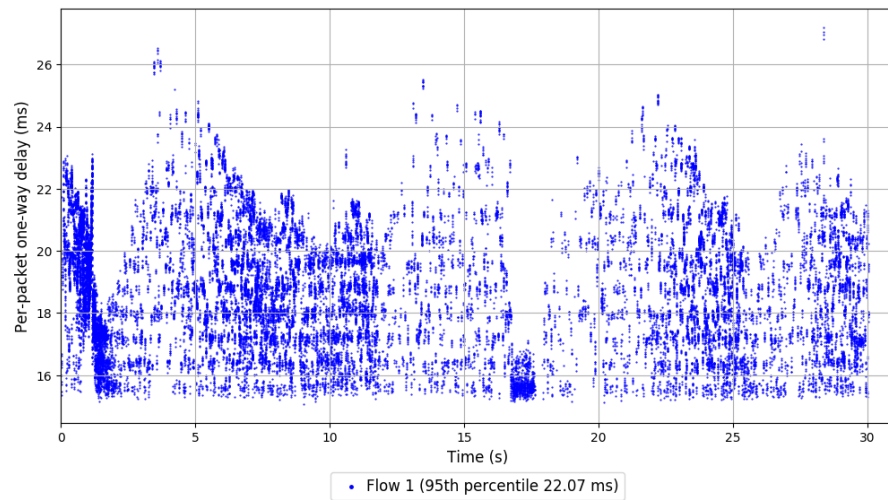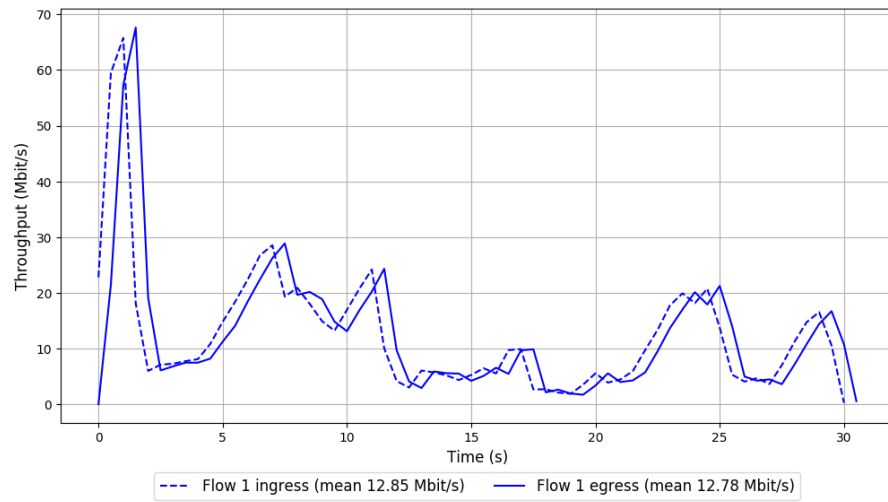
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2018-07-03 11:12:16
End at: 2018-07-03 11:12:46
Local clock offset: -5.798 ms
Remote clock offset: 4.15 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 21.724 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 12.07 Mbit/s
95th percentile per-packet one-way delay: 21.724 ms
Loss rate: 0.40%
```
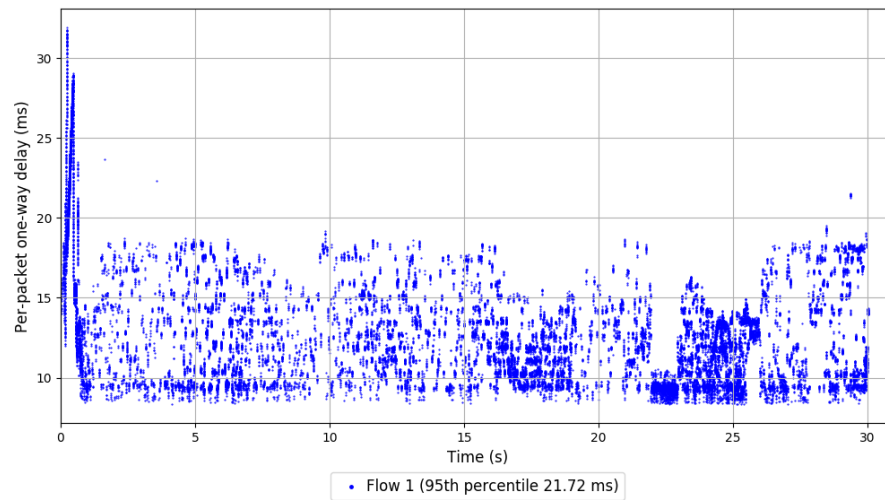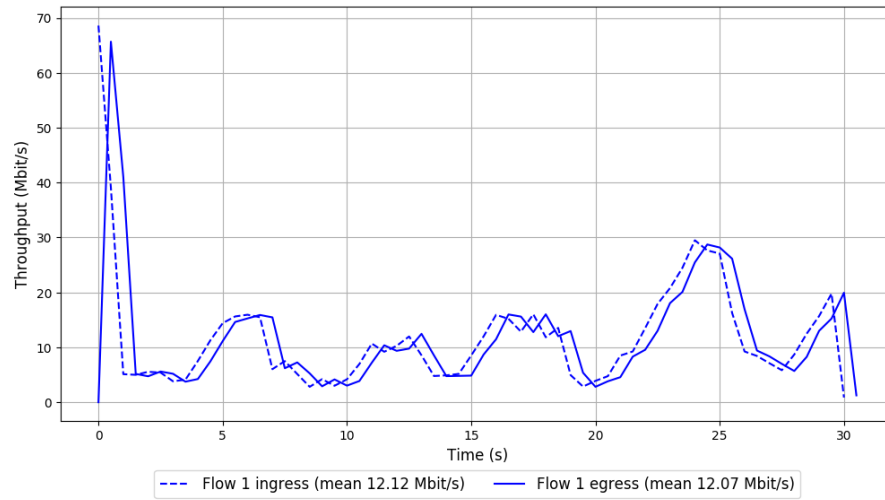
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 12.12 Mbit/s) ---- Flow 1 egress (mean 12.07 Mbit/s)

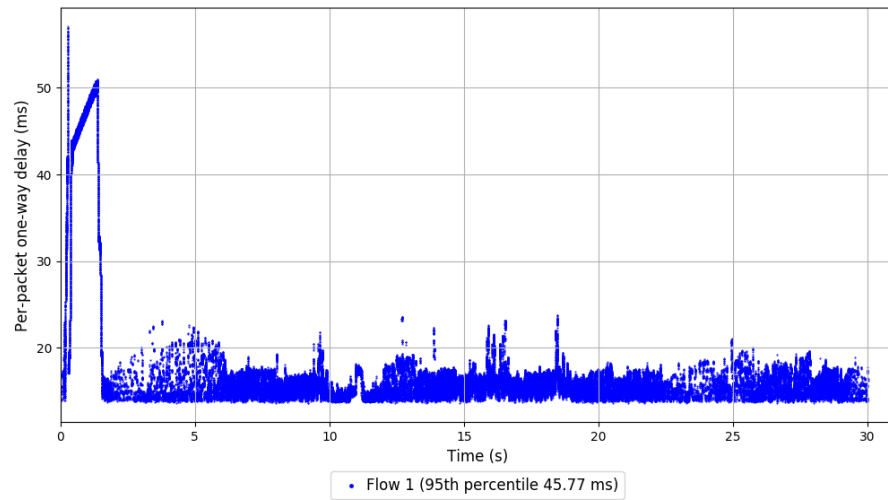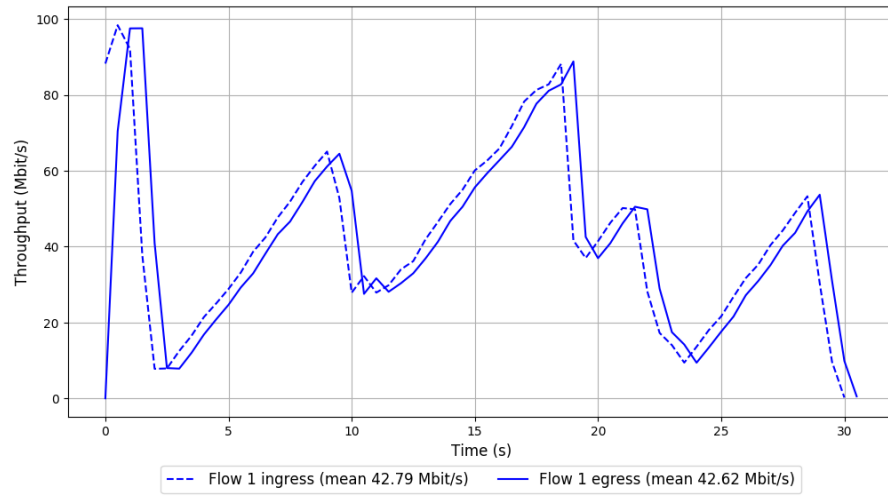• Flow 1 (95th percentile 21.72 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2018-07-03 11:31:46
End at: 2018-07-03 11:32:16
Local clock offset: -12.527 ms
Remote clock offset: 4.479 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.62 Mbit/s
95th percentile per-packet one-way delay: 45.770 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 42.62 Mbit/s
95th percentile per-packet one-way delay: 45.770 ms
Loss rate: 0.40%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 42.79 Mbit/s) —— Flow 1 egress (mean 42.62 Mbit/s)

• Flow 1 (95th percentile 45.77 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2018-07-03 11:51:07
End at: 2018-07-03 11:51:37
Local clock offset: -7.789 ms
Remote clock offset: 3.746 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 38.054 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 20.42 Mbit/s
95th percentile per-packet one-way delay: 38.054 ms
Loss rate: 0.85%
```
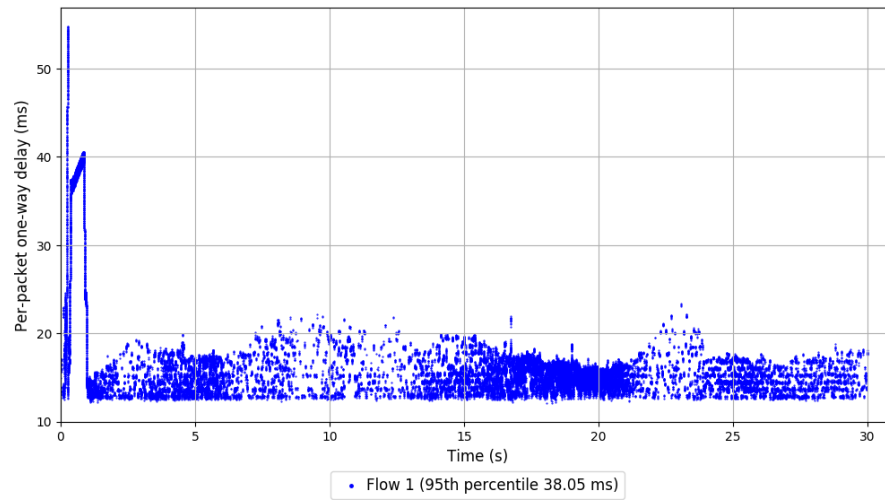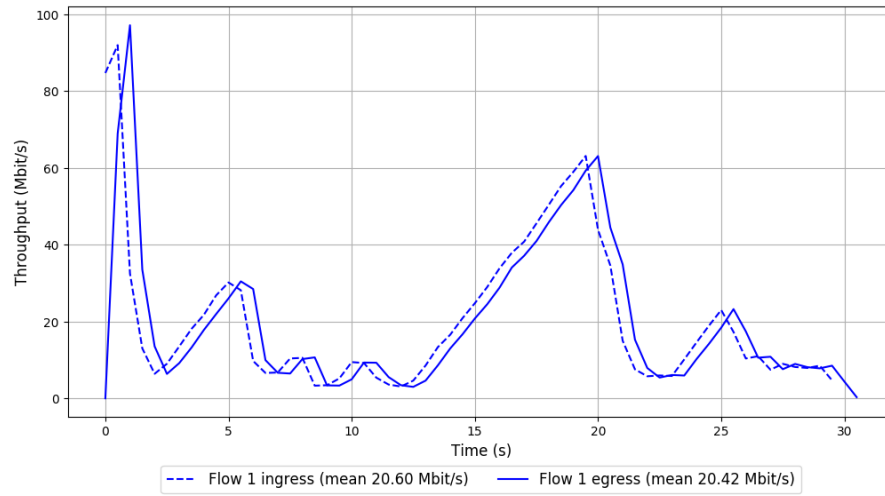
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 20.60 Mbit/s)   Flow 1 egress (mean 20.42 Mbit/s)

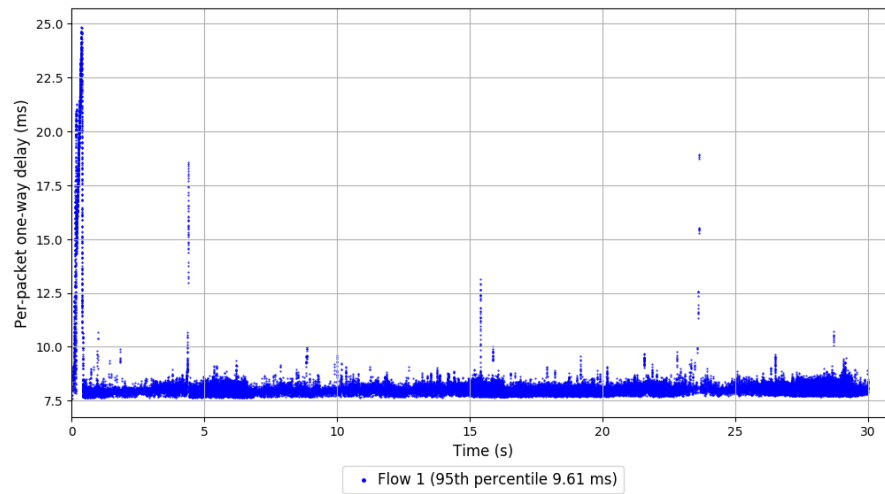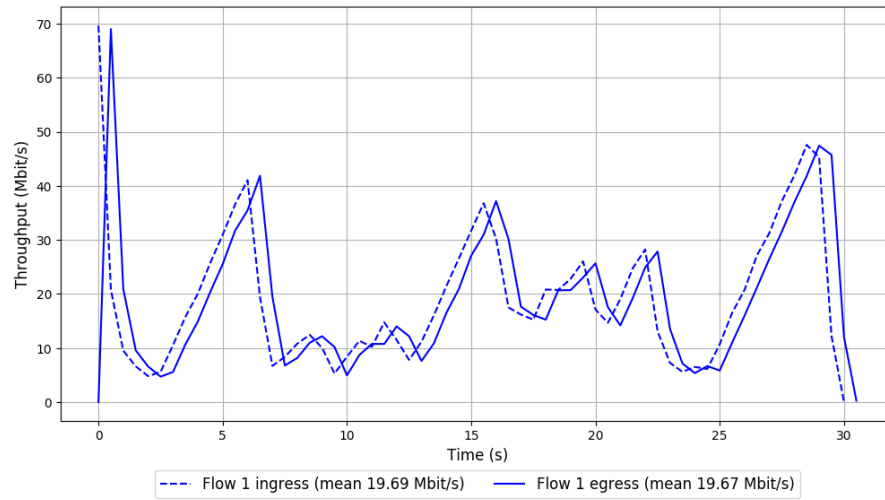• Flow 1 (95th percentile 38.05 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-07-03 12:10:20
End at: 2018-07-03 12:10:50
Local clock offset: -3.953 ms
Remote clock offset: -6.385 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 9.608 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 9.608 ms
Loss rate: 0.15%
```
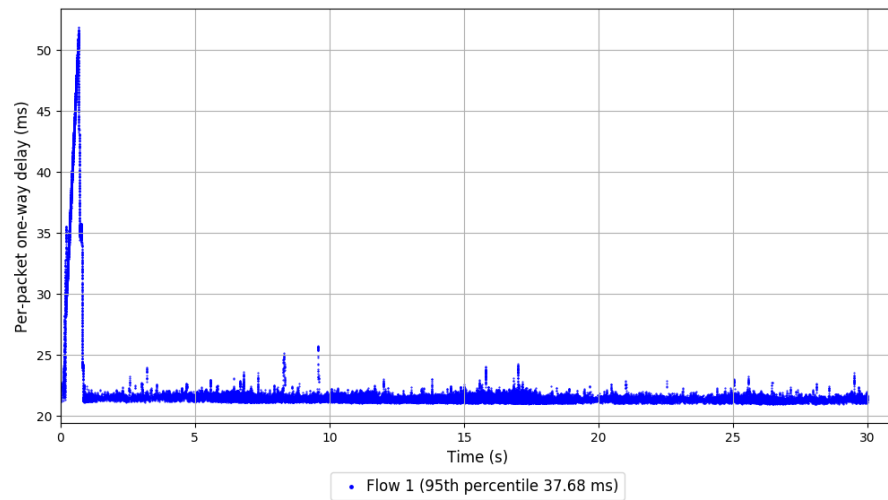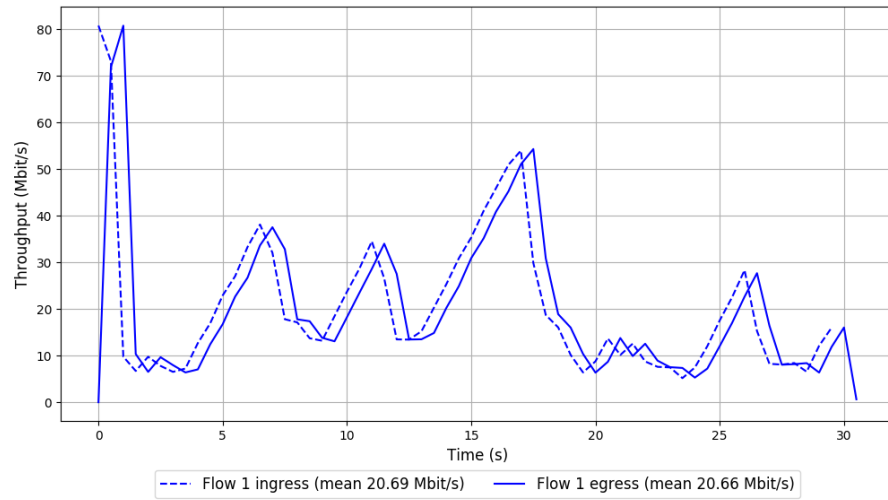
Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: 2018-07-03 12:29:39
End at: 2018-07-03 12:30:09
Local clock offset: -18.92 ms
Remote clock offset: -10.086 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 37.682 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 37.682 ms
Loss rate: 0.15%
```

Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 20.69 Mbit/s) ---- Flow 1 egress (mean 20.66 Mbit/s) ——
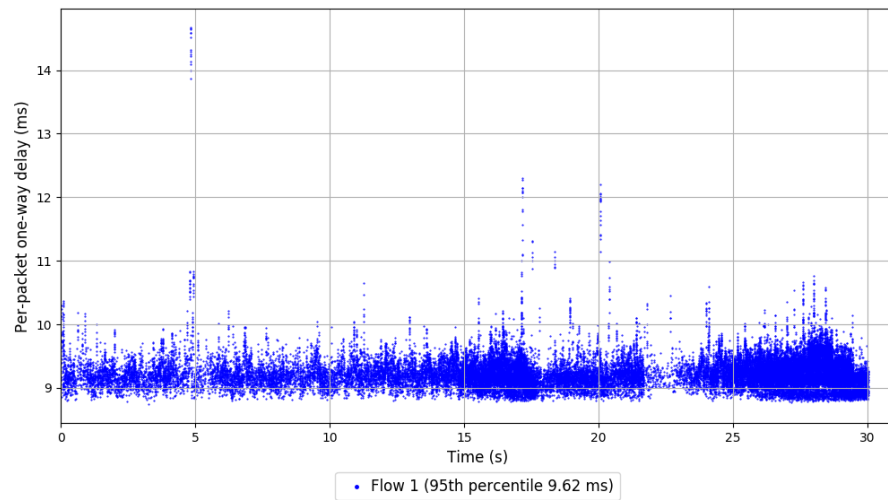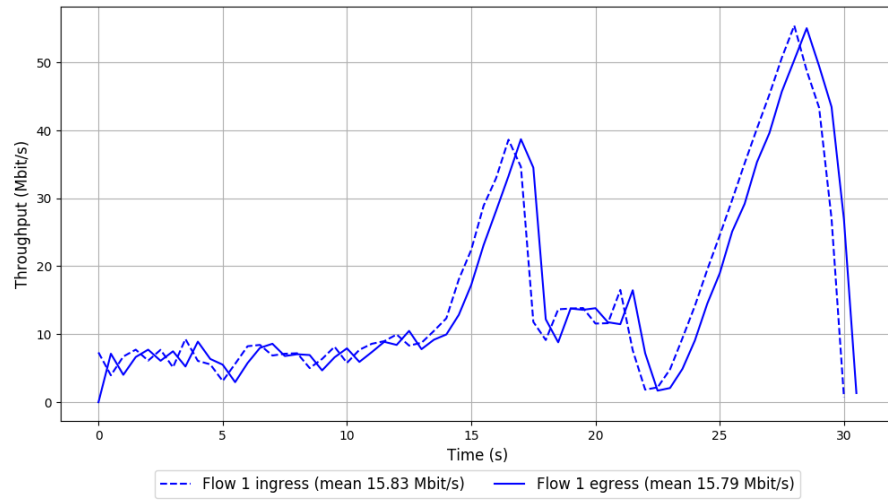

Flow 1 (95th percentile 37.68 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-07-03 12:48:54
End at: 2018-07-03 12:49:24
Local clock offset: -7.725 ms
Remote clock offset: -8.994 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 9.616 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 15.79 Mbit/s
95th percentile per-packet one-way delay: 9.616 ms
Loss rate: 0.28%
```
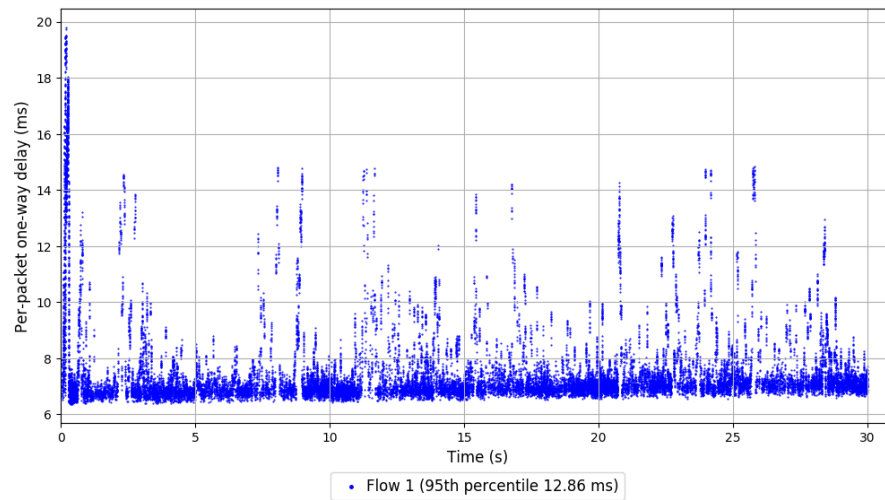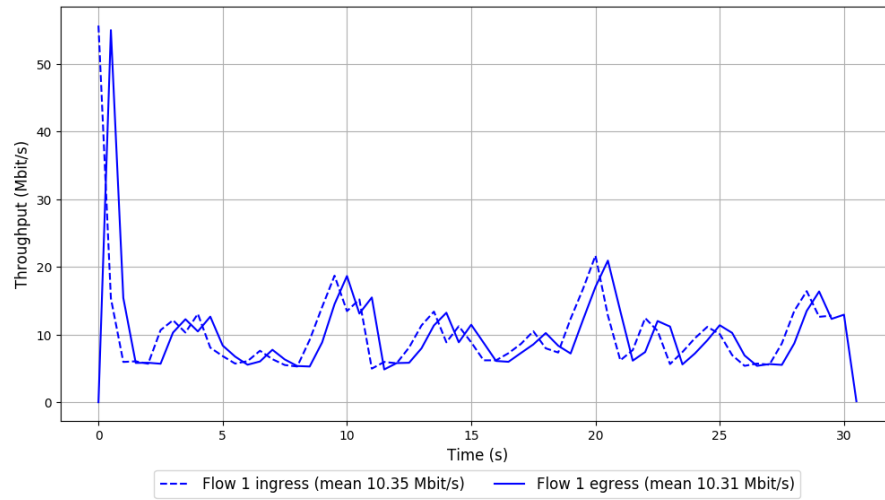
Run 8: Report of TCP Cubic — Data Link

```
Run 9: Statistics of TCP Cubic

Start at: 2018-07-03 13:08:16
End at: 2018-07-03 13:08:46
Local clock offset: -0.131 ms
Remote clock offset: -7.771 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 12.862 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 12.862 ms
Loss rate: 0.44%
```

Run 9: Report of TCP Cubic — Data Link

```
Run 10: Statistics of TCP Cubic

Start at: 2018-07-03 13:27:36
End at: 2018-07-03 13:28:06
Local clock offset: 4.389 ms
Remote clock offset: -6.57 ms


# Below is generated by plot.py at 2018-07-03 13:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 15.622 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 16.84 Mbit/s
95th percentile per-packet one-way delay: 15.622 ms
Loss rate: 0.36%
```
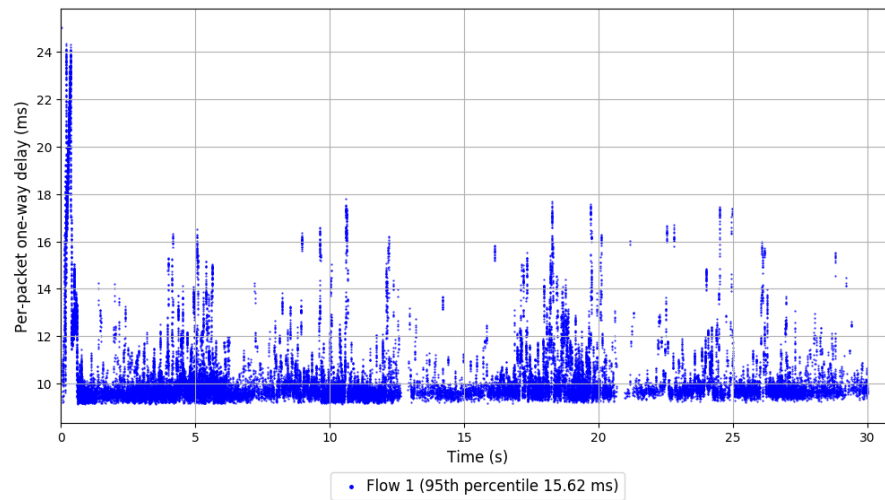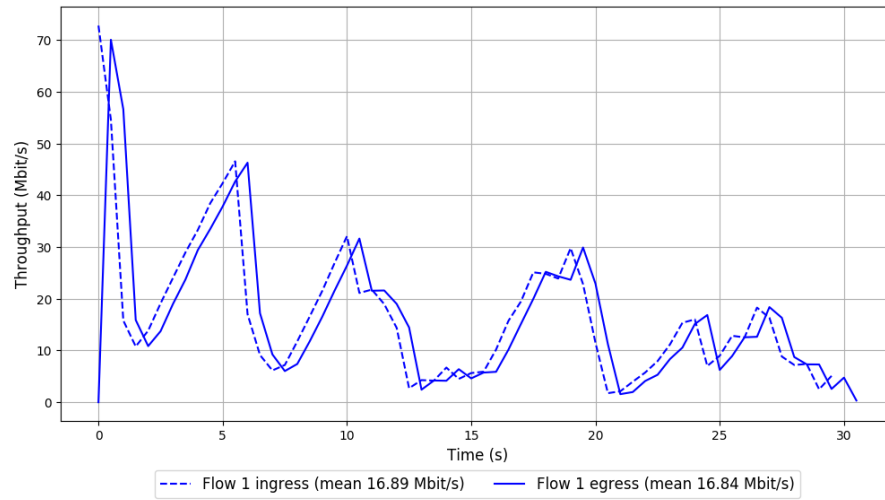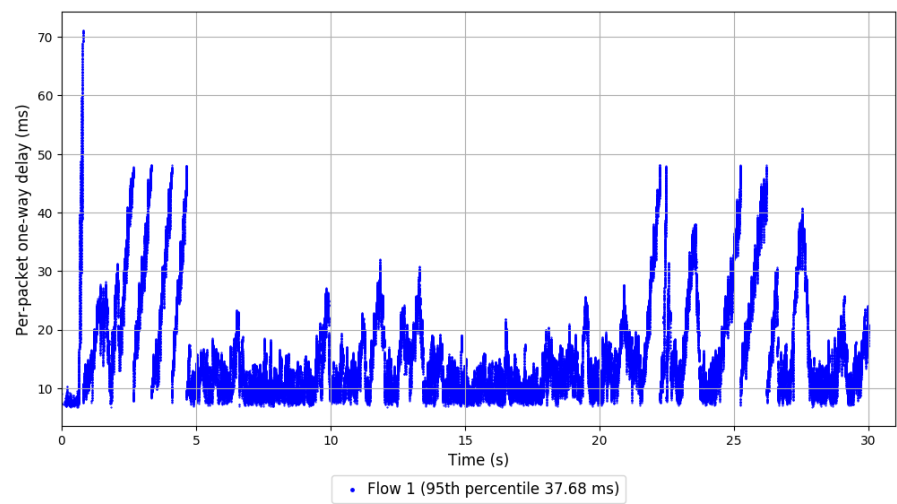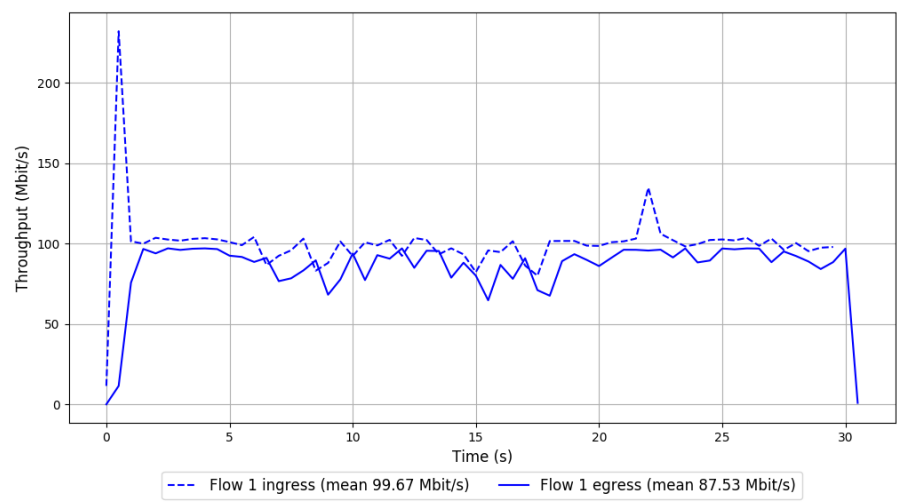
Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of FillP

Start at: 2018-07-03 10:35:28
End at: 2018-07-03 10:35:58
Local clock offset: -2.01 ms
Remote clock offset: 1.183 ms


# Below is generated by plot.py at 2018-07-03 13:41:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 37.678 ms
Loss rate: 12.14%
-- Flow 1:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 37.678 ms
Loss rate: 12.14%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 99.67 Mbit/s)　——　Flow 1 egress (mean 87.53 Mbit/s)

Flow 1 (95th percentile 37.68 ms)

```
Run 2: Statistics of FillP

Start at: 2018-07-03 10:55:08
End at: 2018-07-03 10:55:38
Local clock offset: -3.626 ms
Remote clock offset: 5.163 ms

# Below is generated by plot.py at 2018-07-03 13:41:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.17 Mbit/s
95th percentile per-packet one-way delay: 27.839 ms
Loss rate: 14.62%
-- Flow 1:
Average throughput: 82.17 Mbit/s
95th percentile per-packet one-way delay: 27.839 ms
Loss rate: 14.62%
```
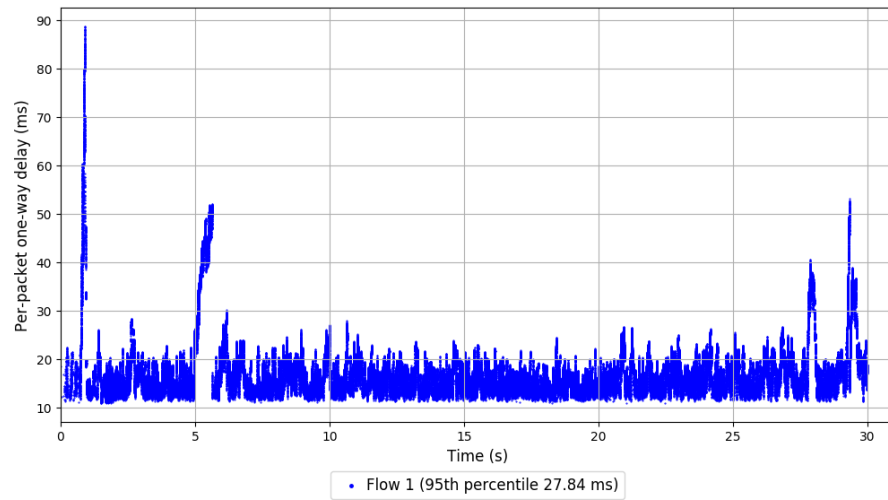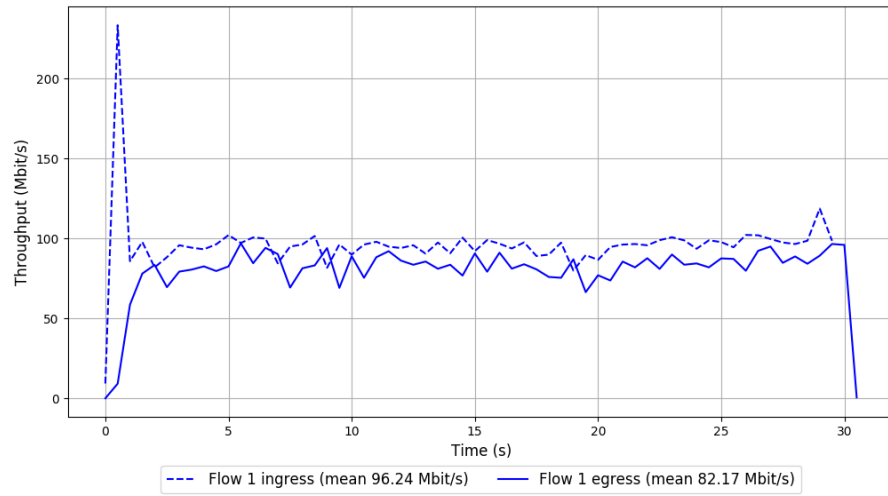
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2018-07-03 11:14:35
End at: 2018-07-03 11:15:05
Local clock offset: -8.006 ms
Remote clock offset: 4.286 ms


# Below is generated by plot.py at 2018-07-03 13:41:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.97 Mbit/s
95th percentile per-packet one-way delay: 36.818 ms
Loss rate: 12.52%
-- Flow 1:
Average throughput: 79.97 Mbit/s
95th percentile per-packet one-way delay: 36.818 ms
Loss rate: 12.52%
```
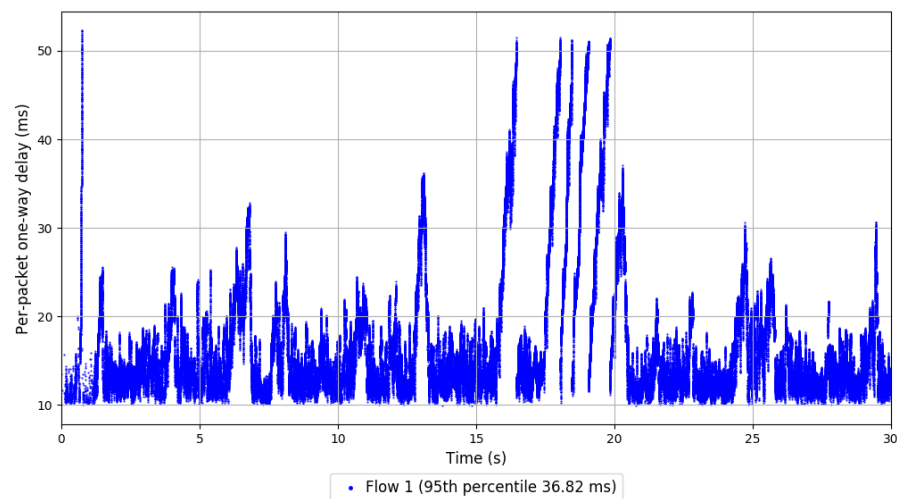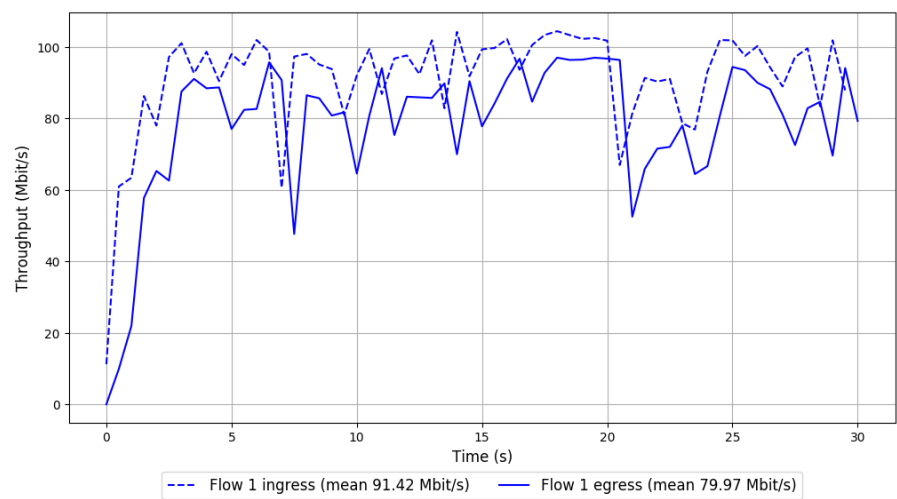
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 91.42 Mbit/s) --- Flow 1 egress (mean 79.97 Mbit/s)

• Flow 1 (95th percentile 36.82 ms)

```
Run 4: Statistics of FillP

Start at: 2018-07-03 11:34:09
End at: 2018-07-03 11:34:39
Local clock offset: -9.447 ms
Remote clock offset: 4.315 ms


# Below is generated by plot.py at 2018-07-03 13:41:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.91 Mbit/s
95th percentile per-packet one-way delay: 39.853 ms
Loss rate: 10.36%
-- Flow 1:
Average throughput: 82.91 Mbit/s
95th percentile per-packet one-way delay: 39.853 ms
Loss rate: 10.36%
```
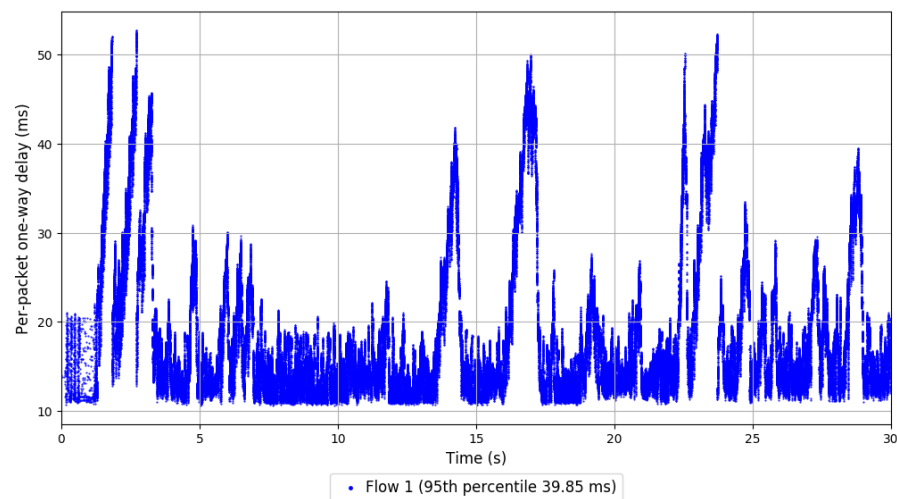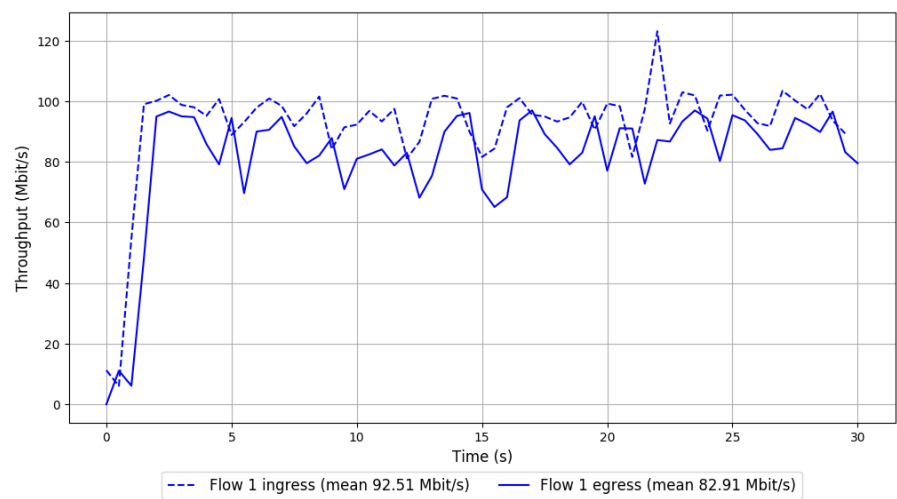
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 92.51 Mbit/s)   Flow 1 egress (mean 82.91 Mbit/s)

• Flow 1 (95th percentile 39.85 ms)

```
Run 5: Statistics of FillP

Start at: 2018-07-03 11:53:25
End at: 2018-07-03 11:53:55
Local clock offset: -4.969 ms
Remote clock offset: 3.561 ms


# Below is generated by plot.py at 2018-07-03 13:41:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 45.152 ms
Loss rate: 6.54%
-- Flow 1:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 45.152 ms
Loss rate: 6.54%
```
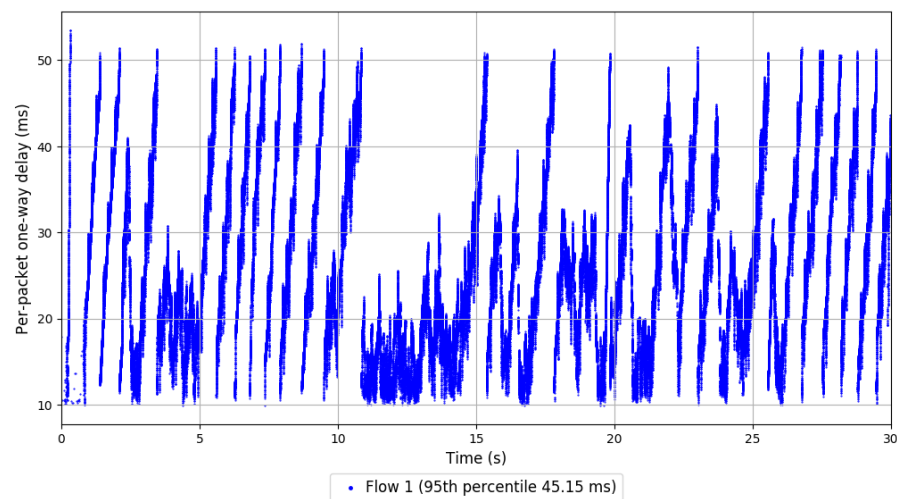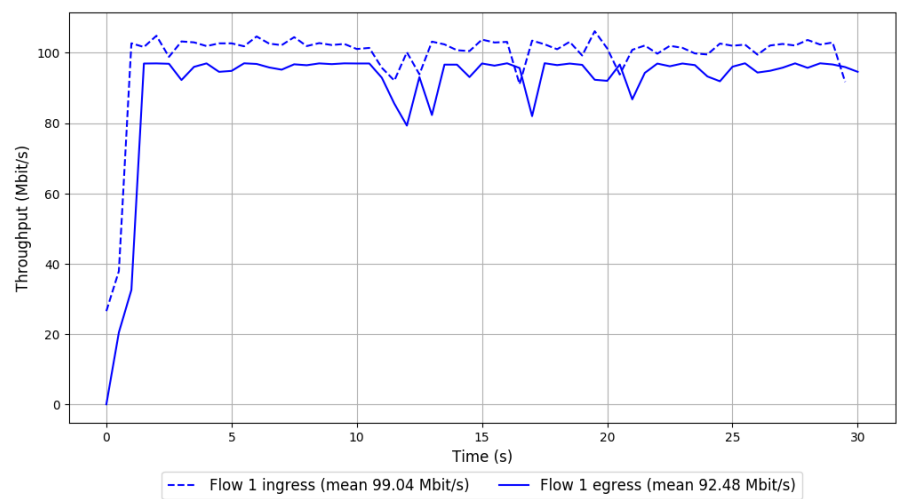
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 99.04 Mbit/s) --- Flow 1 egress (mean 92.48 Mbit/s)

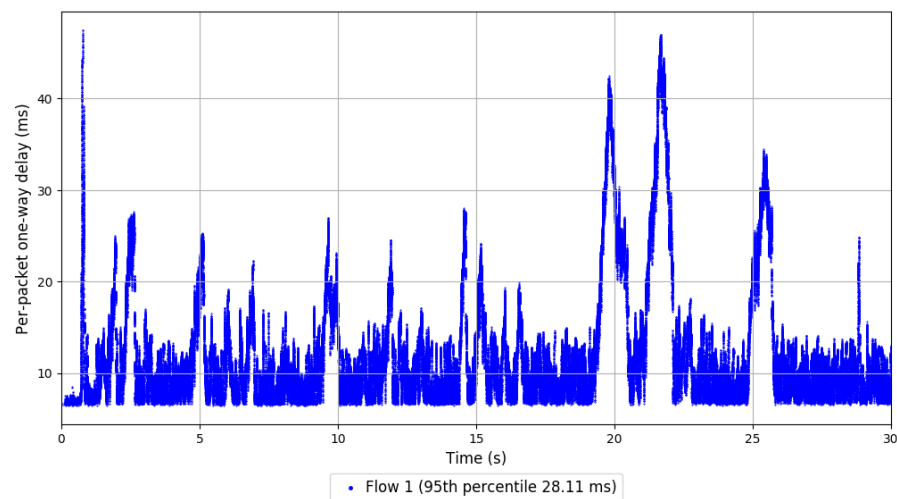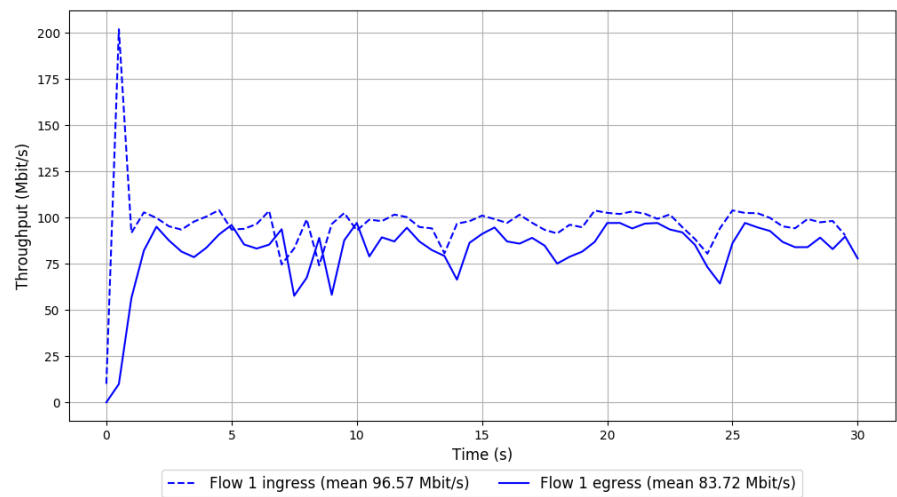• Flow 1 (95th percentile 45.15 ms)

```
Run 6: Statistics of FillP

Start at: 2018-07-03 12:12:36
End at: 2018-07-03 12:13:06
Local clock offset: -3.391 ms
Remote clock offset: -7.089 ms


# Below is generated by plot.py at 2018-07-03 13:41:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 28.105 ms
Loss rate: 13.29%
-- Flow 1:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 28.105 ms
Loss rate: 13.29%
```

Run 6: Report of FillP — Data Link

Flow 1 ingress (mean 96.57 Mbit/s)   Flow 1 egress (mean 83.72 Mbit/s)

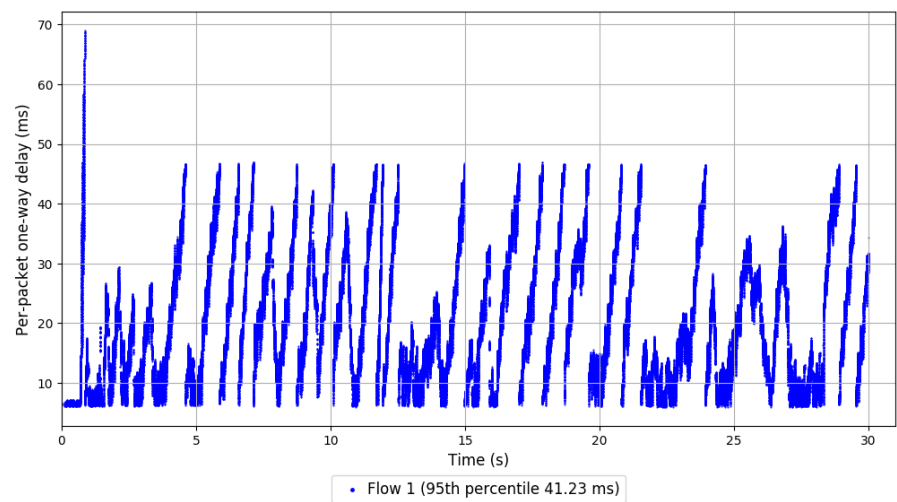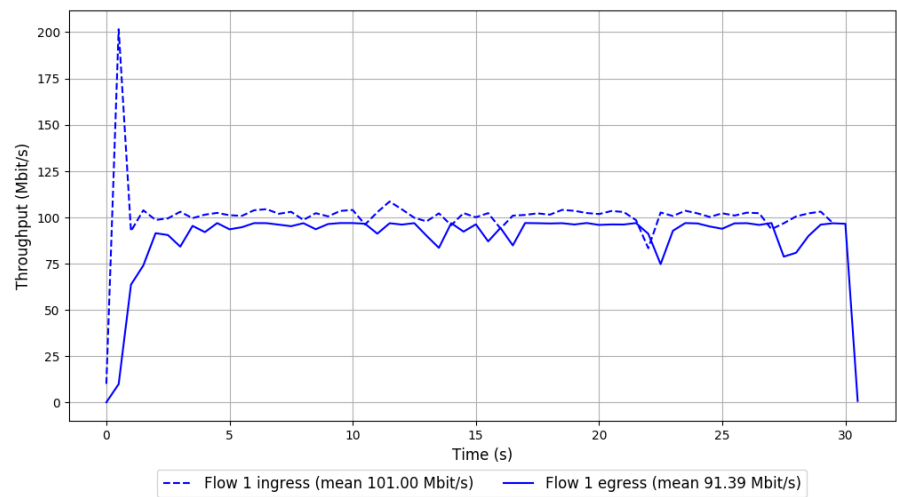Flow 1 (95th percentile 28.11 ms)

```
Run 7: Statistics of FillP

Start at: 2018-07-03 12:31:56
End at: 2018-07-03 12:32:26
Local clock offset: -4.527 ms
Remote clock offset: -9.767 ms


# Below is generated by plot.py at 2018-07-03 13:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 41.225 ms
Loss rate: 9.43%
-- Flow 1:
Average throughput: 91.39 Mbit/s
95th percentile per-packet one-way delay: 41.225 ms
Loss rate: 9.43%
```

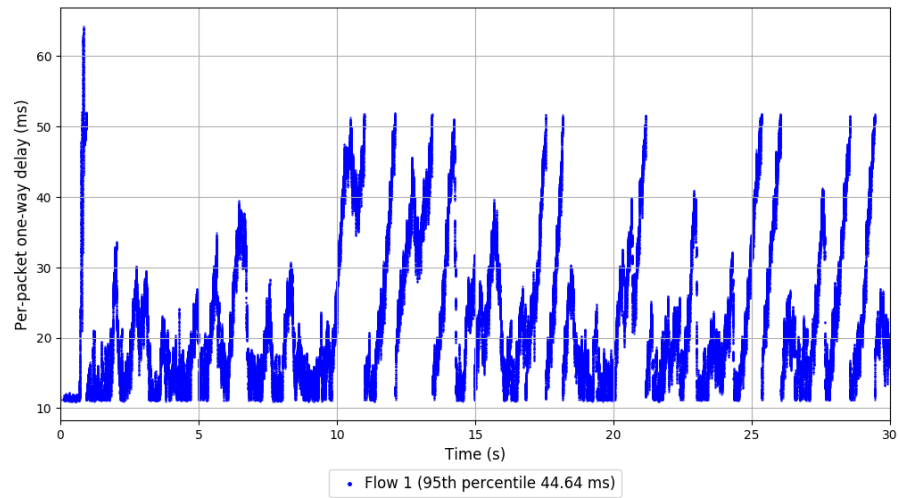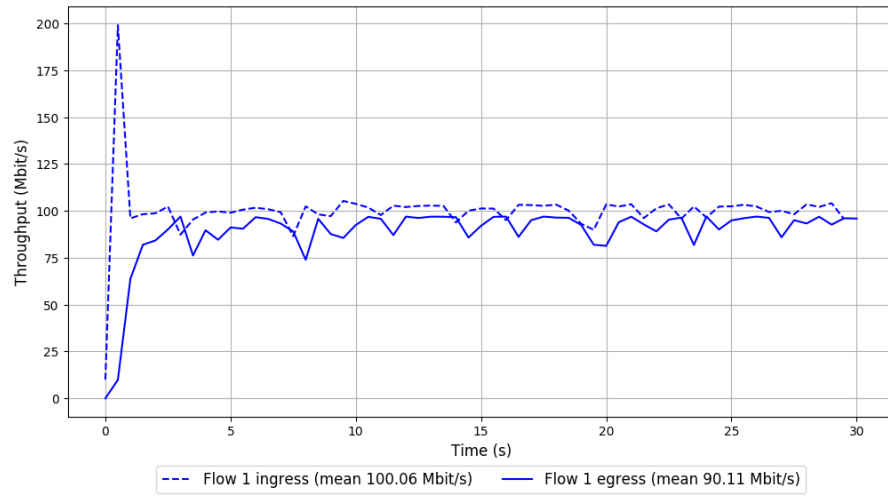# Run 7: Report of FillP — Data Link

```
Run 8: Statistics of FillP

Start at: 2018-07-03 12:51:09
End at: 2018-07-03 12:51:39
Local clock offset: -9.492 ms
Remote clock offset: -8.464 ms


# Below is generated by plot.py at 2018-07-03 13:42:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 44.643 ms
Loss rate: 9.92%
-- Flow 1:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 44.643 ms
Loss rate: 9.92%
```

Run 8: Report of FillP — Data Link

Flow 1 ingress (mean 100.06 Mbit/s) ----- Flow 1 egress (mean 90.11 Mbit/s)

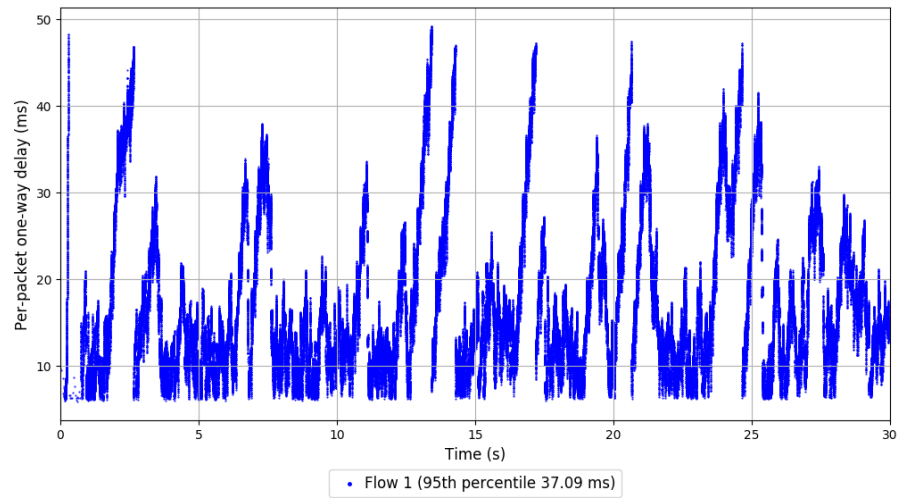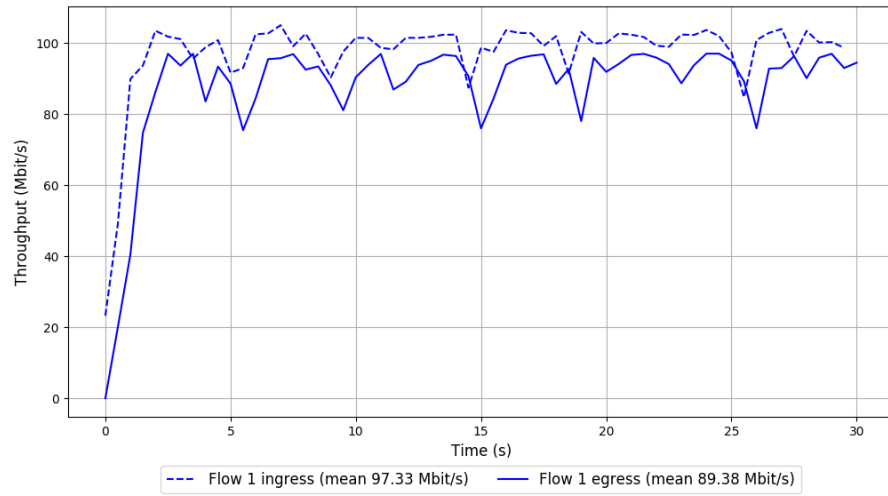• Flow 1 (95th percentile 44.64 ms)

79

```
Run 9: Statistics of FillP

Start at: 2018-07-03 13:10:34
End at: 2018-07-03 13:11:04
Local clock offset: 0.994 ms
Remote clock offset: -8.001 ms


# Below is generated by plot.py at 2018-07-03 13:42:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 37.090 ms
Loss rate: 8.15%
-- Flow 1:
Average throughput: 89.38 Mbit/s
95th percentile per-packet one-way delay: 37.090 ms
Loss rate: 8.15%
```

Run 9: Report of FillP — Data Link

Flow 1 ingress (mean 97.33 Mbit/s) --- Flow 1 egress (mean 89.38 Mbit/s)

• Flow 1 (95th percentile 37.09 ms)

```
Run 10: Statistics of FillP

Start at: 2018-07-03 13:29:53
End at: 2018-07-03 13:30:23
Local clock offset: 5.292 ms
Remote clock offset: -6.391 ms


# Below is generated by plot.py at 2018-07-03 13:42:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 19.771 ms
Loss rate: 15.22%
-- Flow 1:
Average throughput: 81.41 Mbit/s
95th percentile per-packet one-way delay: 19.771 ms
Loss rate: 15.22%
```
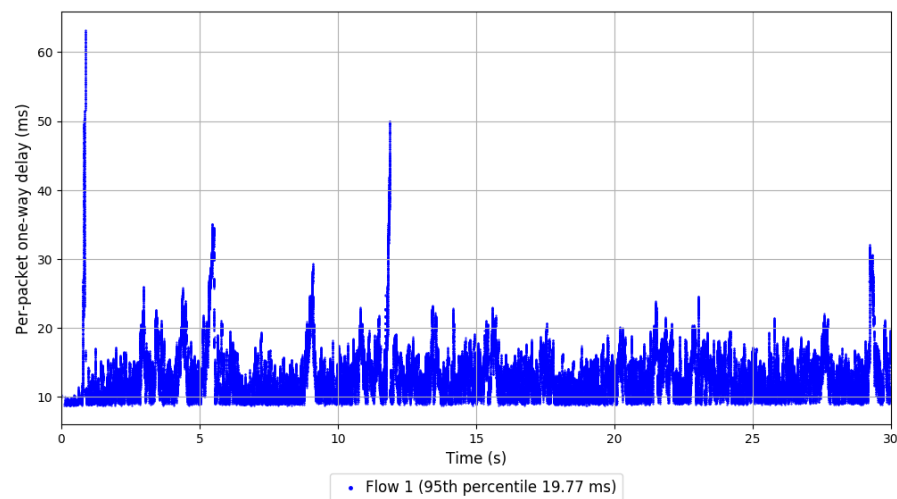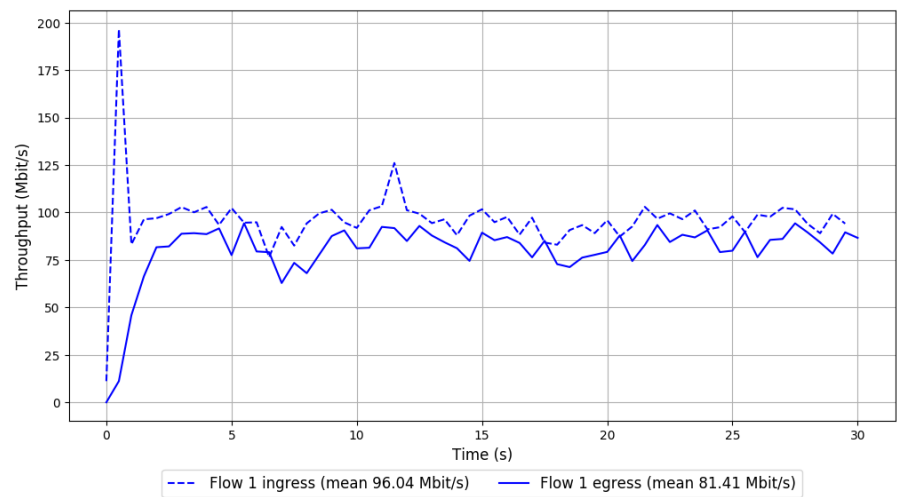
Run 10: Report of FillP — Data Link

```
Run 1: Statistics of FillP-Sheep

Start at: 2018-07-03 10:36:40
End at: 2018-07-03 10:37:10
Local clock offset: -1.147 ms
Remote clock offset: 4.074 ms


# Below is generated by plot.py at 2018-07-03 13:42:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 42.391 ms
Loss rate: 8.30%
-- Flow 1:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 42.391 ms
Loss rate: 8.30%
```
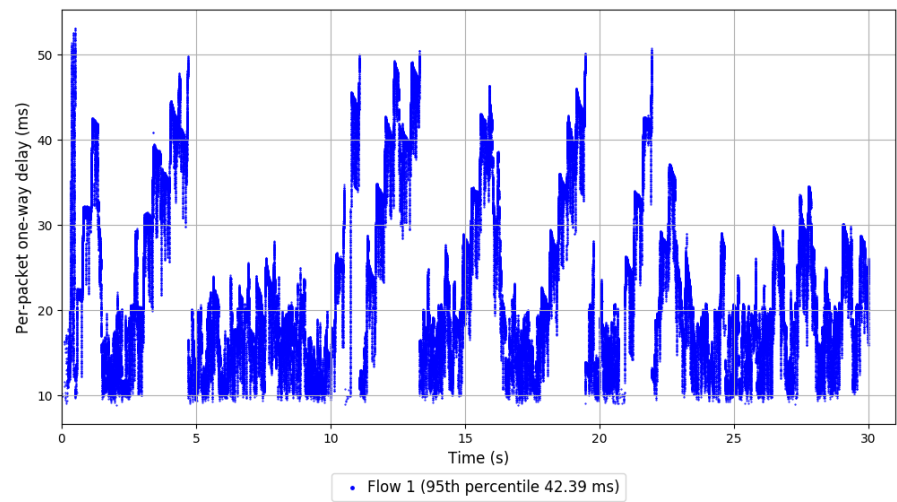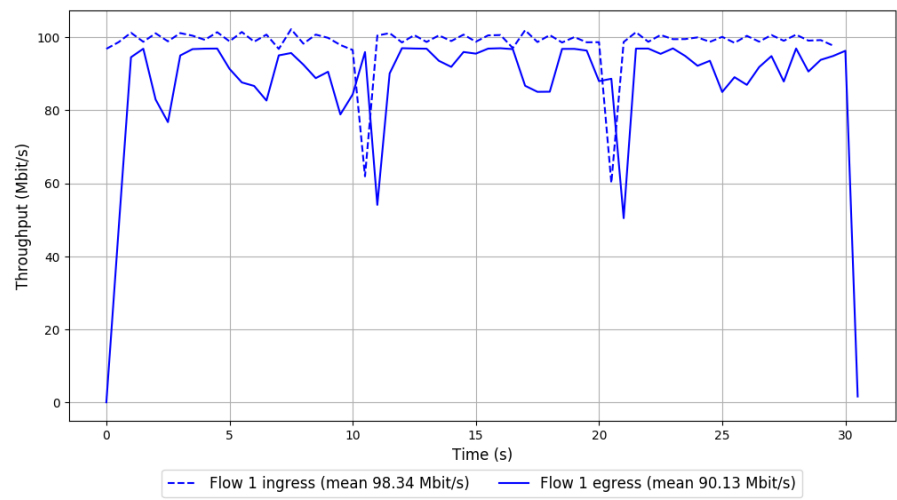
Run 1: Report of FillP-Sheep — Data Link

```
Run 2: Statistics of FillP-Sheep

Start at: 2018-07-03 10:56:17
End at: 2018-07-03 10:56:47
Local clock offset: -4.528 ms
Remote clock offset: 6.211 ms


# Below is generated by plot.py at 2018-07-03 13:43:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.97 Mbit/s
95th percentile per-packet one-way delay: 36.212 ms
Loss rate: 11.60%
-- Flow 1:
Average throughput: 86.97 Mbit/s
95th percentile per-packet one-way delay: 36.212 ms
Loss rate: 11.60%
```
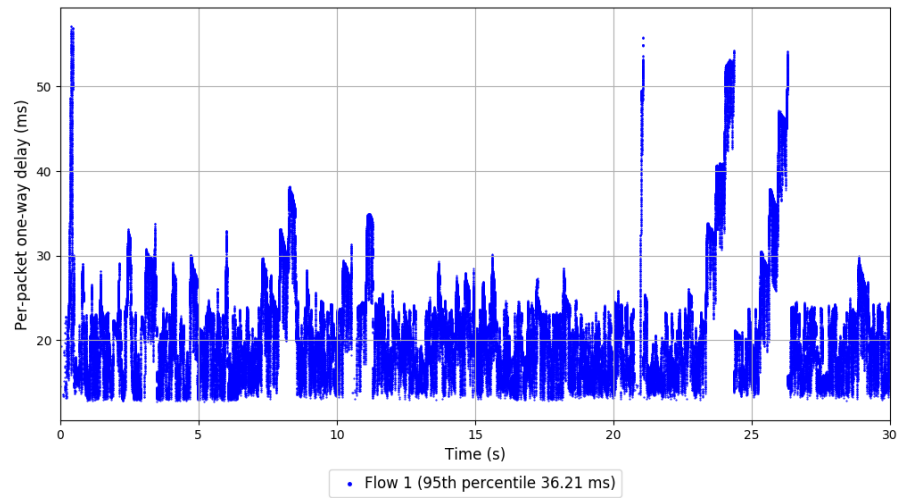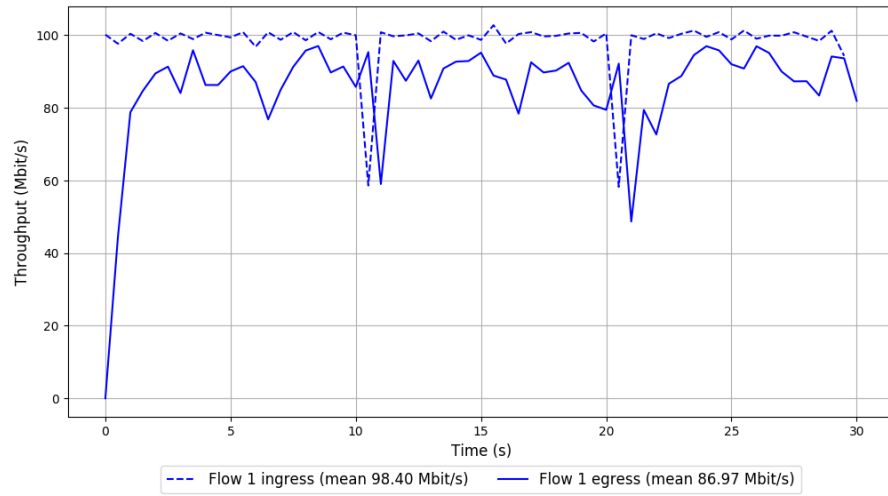
Run 2: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 98.40 Mbit/s)   Flow 1 egress (mean 86.97 Mbit/s)

Flow 1 (95th percentile 36.21 ms)

```
Run 3: Statistics of FillP-Sheep

Start at: 2018-07-03 11:15:47
End at: 2018-07-03 11:16:17
Local clock offset: -5.646 ms
Remote clock offset: 5.054 ms


# Below is generated by plot.py at 2018-07-03 13:43:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.01 Mbit/s
95th percentile per-packet one-way delay: 32.838 ms
Loss rate: 12.54%
-- Flow 1:
Average throughput: 86.01 Mbit/s
95th percentile per-packet one-way delay: 32.838 ms
Loss rate: 12.54%
```
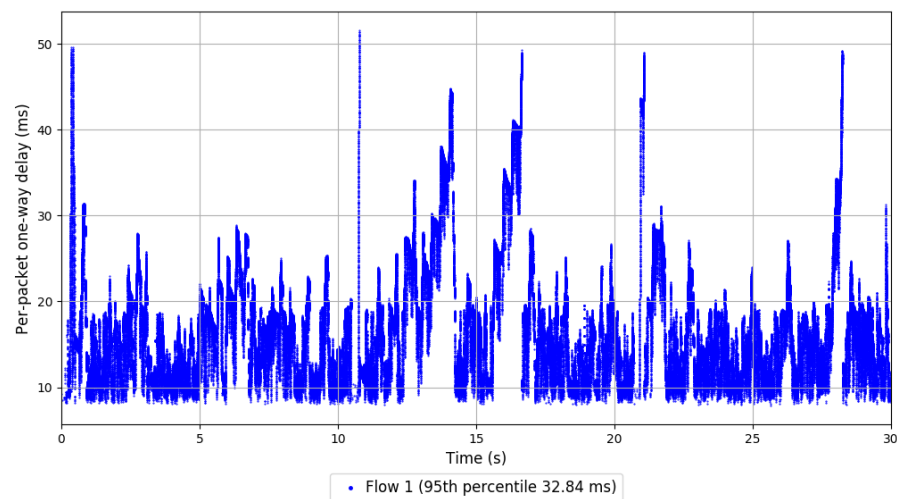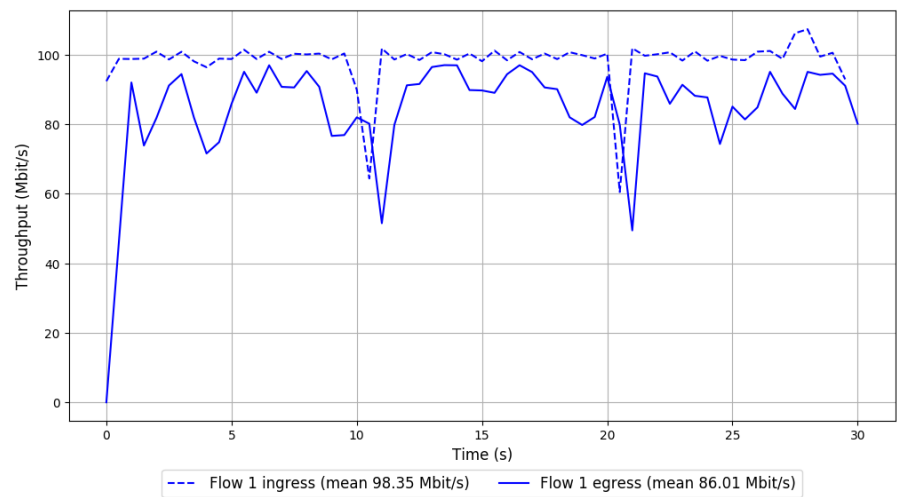
Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 98.35 Mbit/s)   Flow 1 egress (mean 86.01 Mbit/s)

• Flow 1 (95th percentile 32.84 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2018-07-03 11:35:21
End at: 2018-07-03 11:35:51
Local clock offset: -4.623 ms
Remote clock offset: 2.984 ms


# Below is generated by plot.py at 2018-07-03 13:43:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.42 Mbit/s
95th percentile per-packet one-way delay: 21.093 ms
Loss rate: 14.09%
-- Flow 1:
Average throughput: 84.42 Mbit/s
95th percentile per-packet one-way delay: 21.093 ms
Loss rate: 14.09%
```
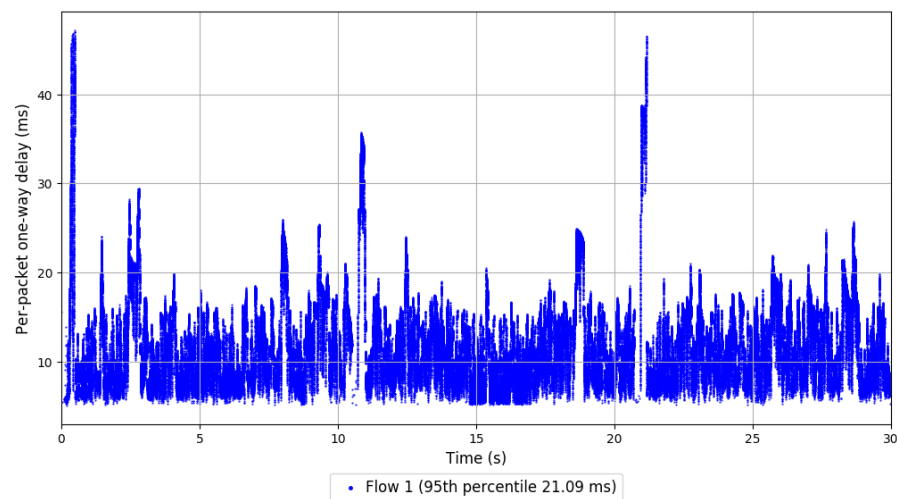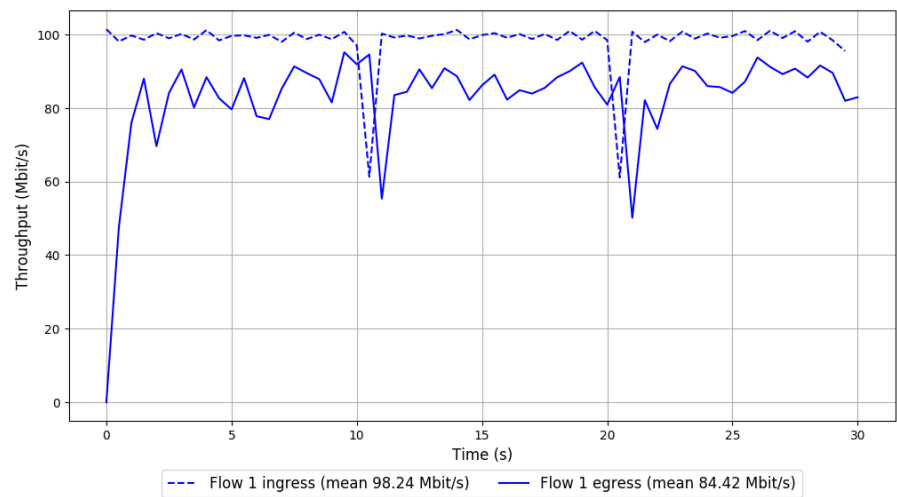
Run 4: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 98.24 Mbit/s)   Flow 1 egress (mean 84.42 Mbit/s)

Flow 1 (95th percentile 21.09 ms)

```
Run 5: Statistics of FillP-Sheep

Start at: 2018-07-03 11:54:33
End at: 2018-07-03 11:55:03
Local clock offset: -2.762 ms
Remote clock offset: 3.985 ms


# Below is generated by plot.py at 2018-07-03 13:43:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 41.637 ms
Loss rate: 9.46%
-- Flow 1:
Average throughput: 89.17 Mbit/s
95th percentile per-packet one-way delay: 41.637 ms
Loss rate: 9.46%
```
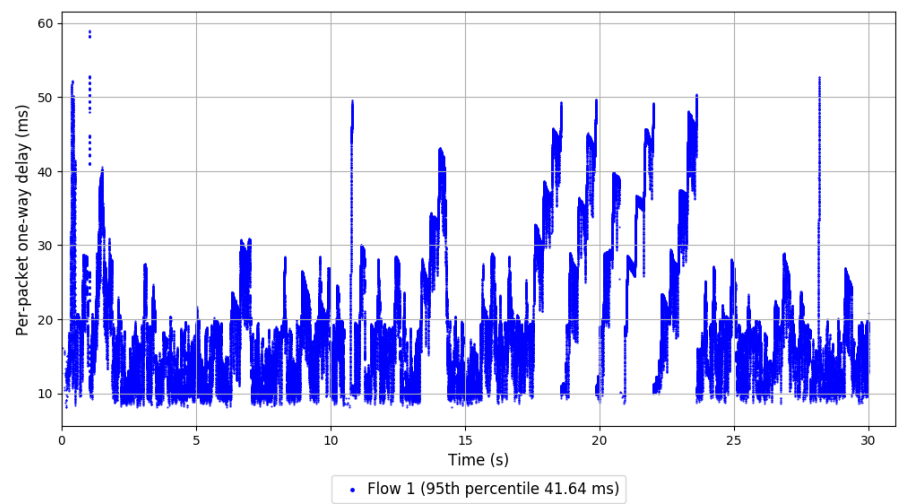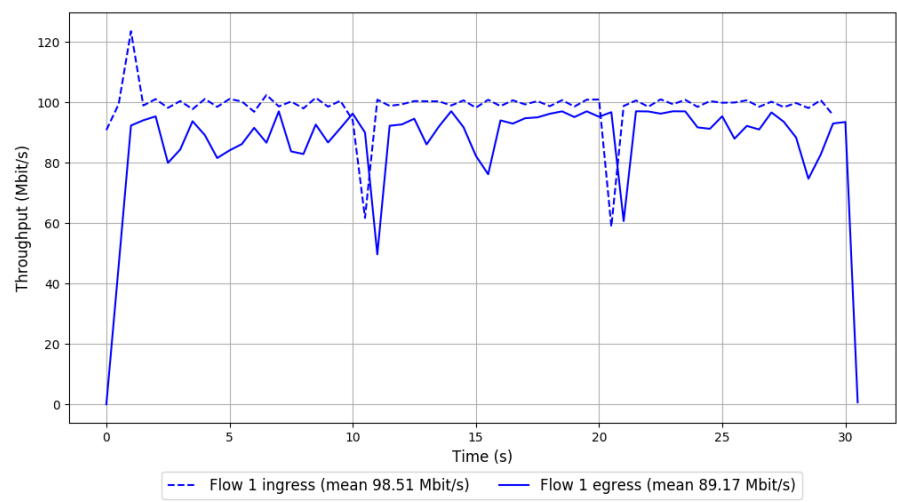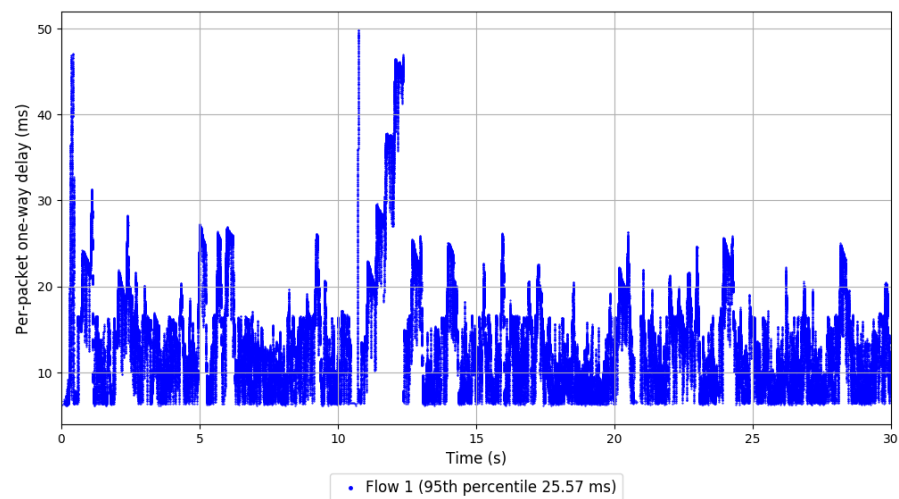
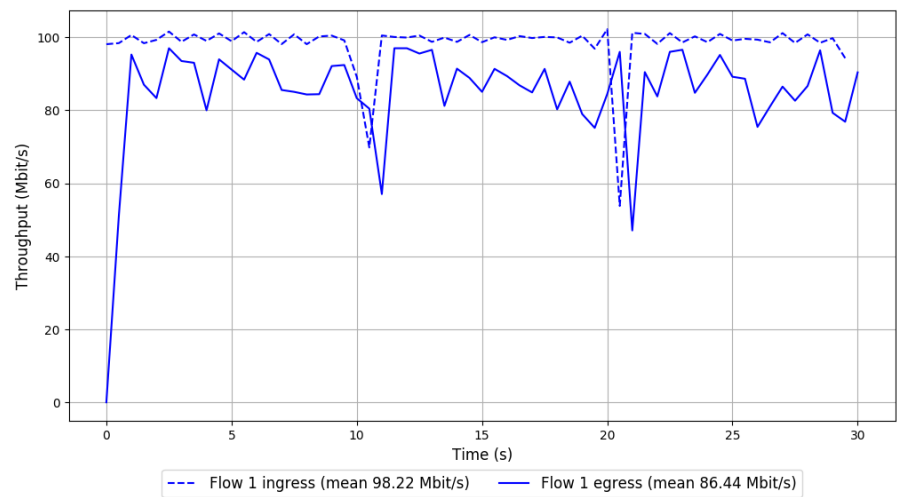Run 5: Report of FillP-Sheep — Data Link

```
Run 6: Statistics of FillP-Sheep

Start at: 2018-07-03 12:13:46
End at: 2018-07-03 12:14:16
Local clock offset: -3.333 ms
Remote clock offset: -7.613 ms


# Below is generated by plot.py at 2018-07-03 13:43:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 25.572 ms
Loss rate: 11.99%
-- Flow 1:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 25.572 ms
Loss rate: 11.99%
```

Run 6: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 98.22 Mbit/s)   Flow 1 egress (mean 86.44 Mbit/s)
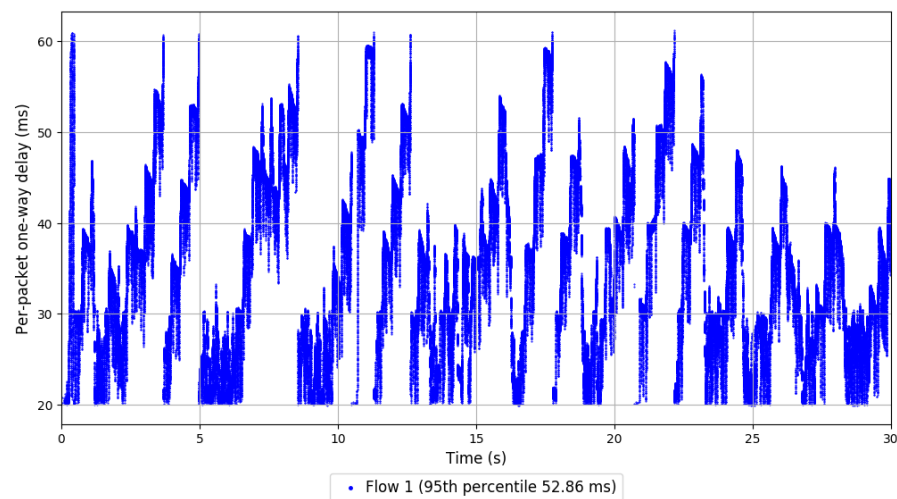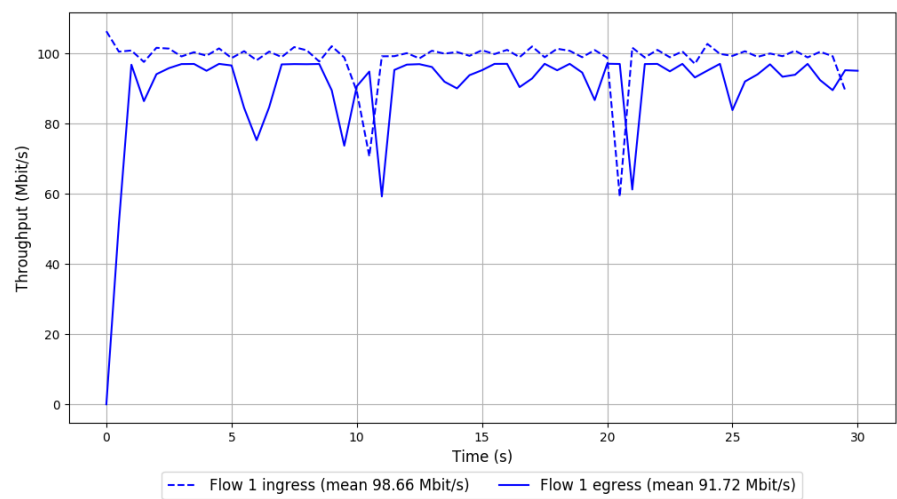

• Flow 1 (95th percentile 25.57 ms)

```
Run 7: Statistics of FillP-Sheep

Start at: 2018-07-03 12:33:04
End at: 2018-07-03 12:33:34
Local clock offset: -17.475 ms
Remote clock offset: -8.48 ms


# Below is generated by plot.py at 2018-07-03 13:44:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 52.857 ms
Loss rate: 6.97%
-- Flow 1:
Average throughput: 91.72 Mbit/s
95th percentile per-packet one-way delay: 52.857 ms
Loss rate: 6.97%
```
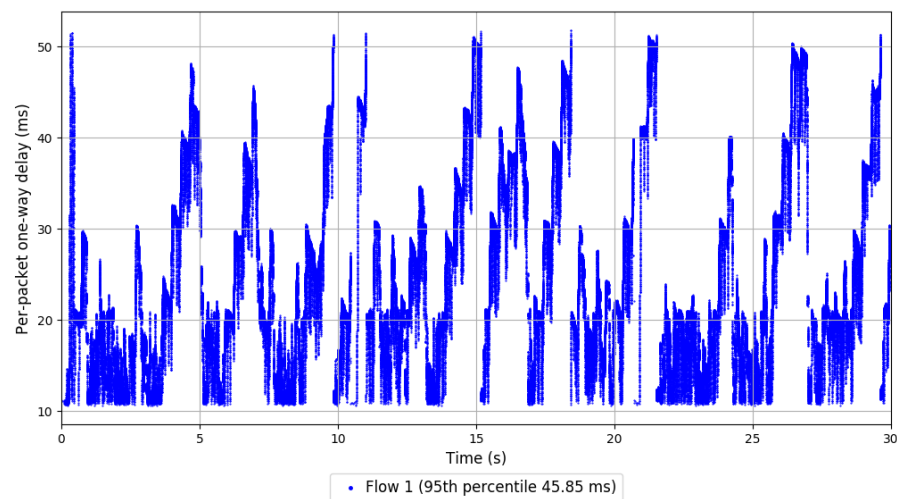
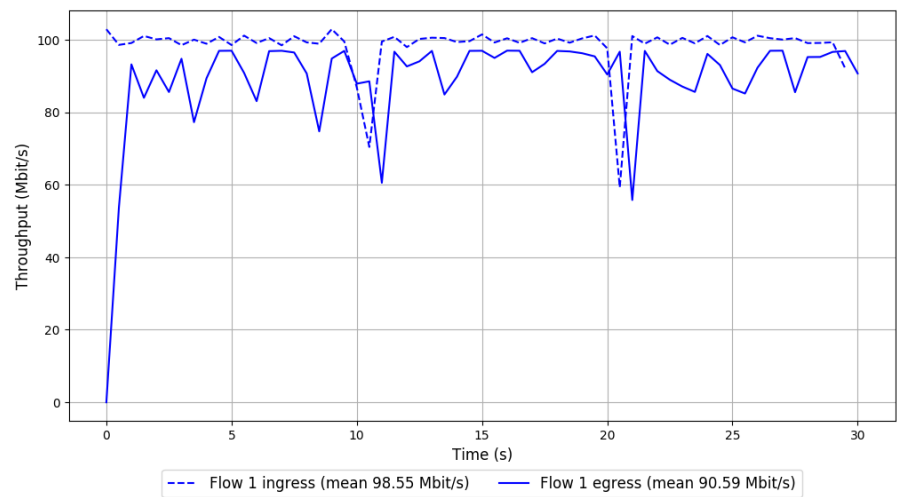Run 7: Report of FillP-Sheep — Data Link

```
Run 8: Statistics of FillP-Sheep

Start at: 2018-07-03 12:52:17
End at: 2018-07-03 12:52:47
Local clock offset: -8.978 ms
Remote clock offset: -8.315 ms


# Below is generated by plot.py at 2018-07-03 13:44:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.59 Mbit/s
95th percentile per-packet one-way delay: 45.854 ms
Loss rate: 8.02%
-- Flow 1:
Average throughput: 90.59 Mbit/s
95th percentile per-packet one-way delay: 45.854 ms
Loss rate: 8.02%
```

Run 8: Report of FillP-Sheep — Data Link

```
Run 9: Statistics of FillP-Sheep

Start at: 2018-07-03 13:11:43
End at: 2018-07-03 13:12:13
Local clock offset: -1.2 ms
Remote clock offset: -7.661 ms


# Below is generated by plot.py at 2018-07-03 13:44:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 34.112 ms
Loss rate: 10.90%
-- Flow 1:
Average throughput: 87.81 Mbit/s
95th percentile per-packet one-way delay: 34.112 ms
Loss rate: 10.90%
```
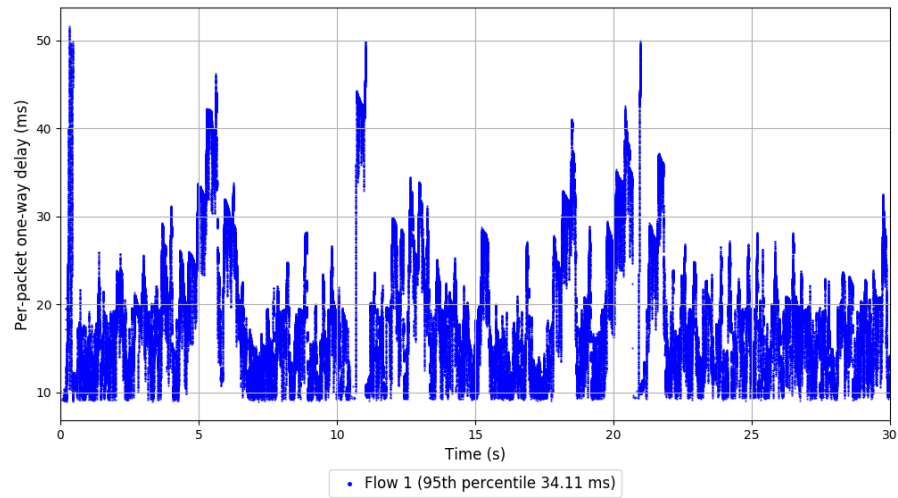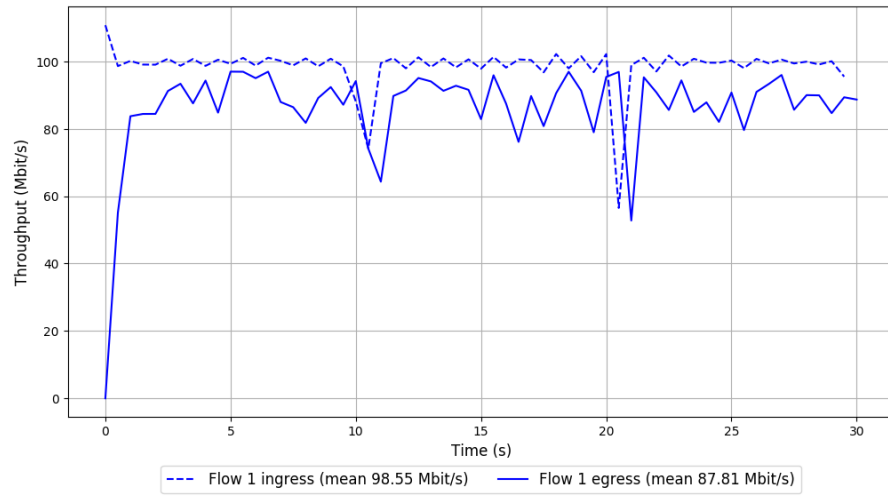
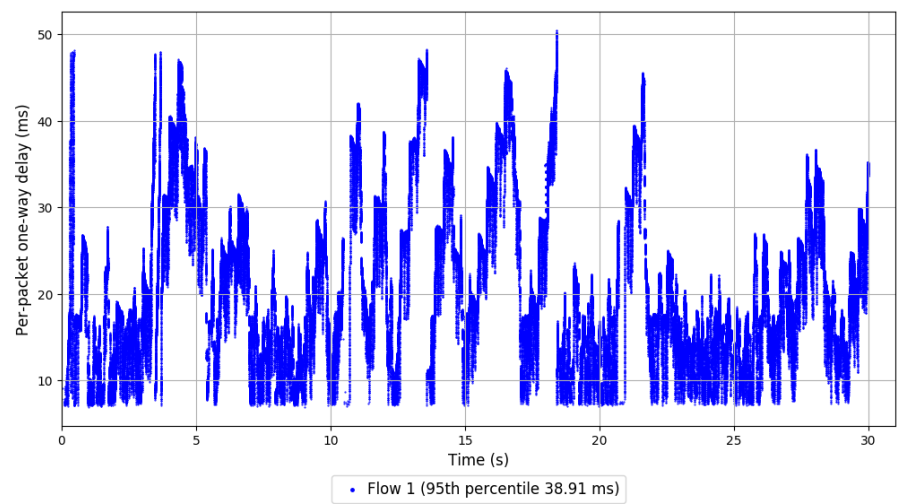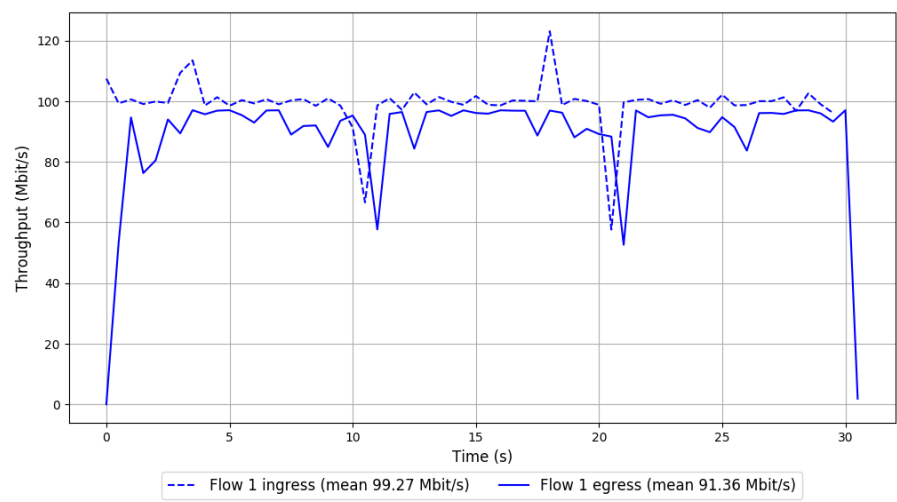Run 9: Report of FillP-Sheep — Data Link

```
Run 10: Statistics of FillP-Sheep

Start at: 2018-07-03 13:31:00
End at: 2018-07-03 13:31:30
Local clock offset: 6.925 ms
Remote clock offset: -6.766 ms


# Below is generated by plot.py at 2018-07-03 13:44:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 38.908 ms
Loss rate: 7.88%
-- Flow 1:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 38.908 ms
Loss rate: 7.88%
```

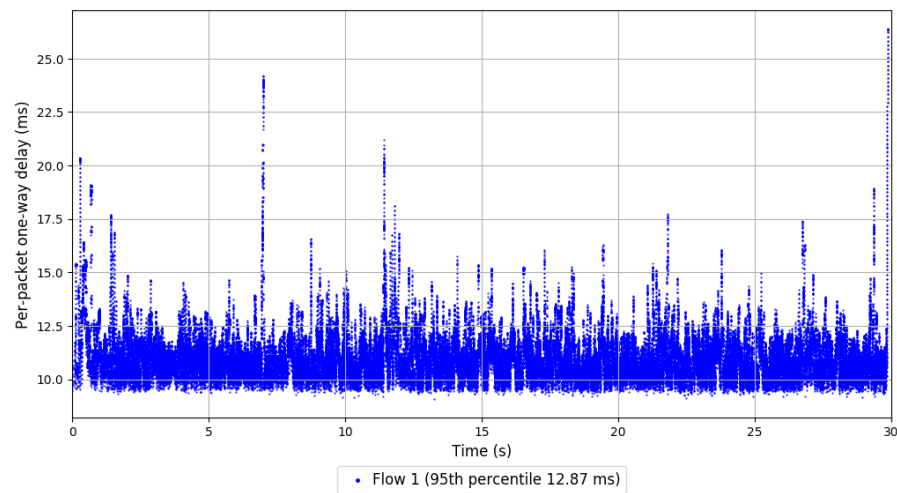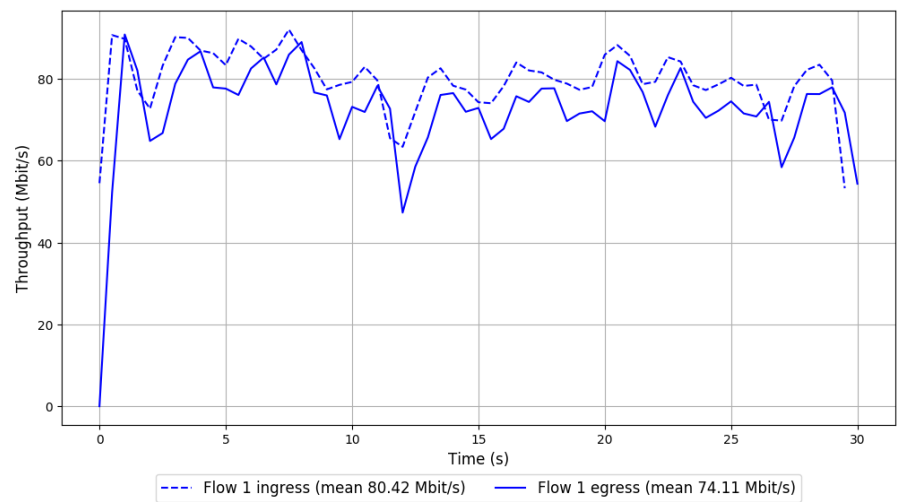## Run 10: Report of FillP-Sheep — Data Link

```
Run 1: Statistics of Indigo

Start at: 2018-07-03 10:21:51
End at: 2018-07-03 10:22:21
Local clock offset: -4.454 ms
Remote clock offset: -0.237 ms


# Below is generated by plot.py at 2018-07-03 13:44:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.11 Mbit/s
95th percentile per-packet one-way delay: 12.867 ms
Loss rate: 7.79%
-- Flow 1:
Average throughput: 74.11 Mbit/s
95th percentile per-packet one-way delay: 12.867 ms
Loss rate: 7.79%
```

Run 1: Report of Indigo — Data Link

Flow 1 ingress (mean 80.42 Mbit/s)　　Flow 1 egress (mean 74.11 Mbit/s)

Flow 1 (95th percentile 12.87 ms)

```
Run 2: Statistics of Indigo

Start at: 2018-07-03 10:41:28
End at: 2018-07-03 10:41:58
Local clock offset: -2.821 ms
Remote clock offset: 5.237 ms


# Below is generated by plot.py at 2018-07-03 13:44:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.22 Mbit/s
95th percentile per-packet one-way delay: 15.558 ms
Loss rate: 7.01%
-- Flow 1:
Average throughput: 67.22 Mbit/s
95th percentile per-packet one-way delay: 15.558 ms
Loss rate: 7.01%
```
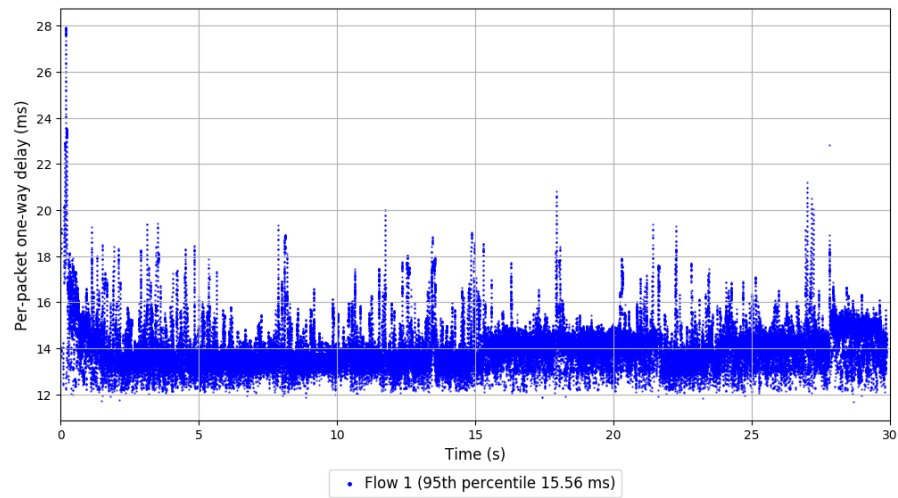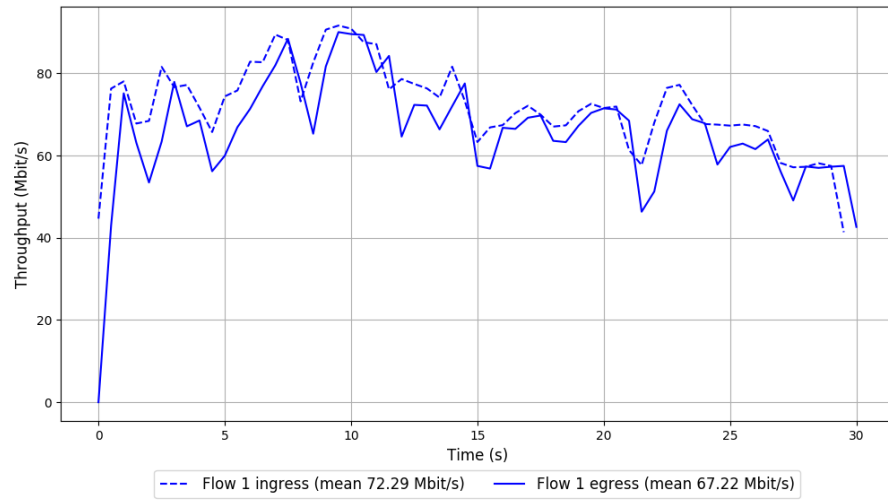
Run 2: Report of Indigo — Data Link

Flow 1 ingress (mean 72.29 Mbit/s)   Flow 1 egress (mean 67.22 Mbit/s)

Flow 1 (95th percentile 15.56 ms)

```
Run 3: Statistics of Indigo

Start at: 2018-07-03 11:00:53
End at: 2018-07-03 11:01:23
Local clock offset: -7.063 ms
Remote clock offset: 7.54 ms


# Below is generated by plot.py at 2018-07-03 13:44:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.45 Mbit/s
95th percentile per-packet one-way delay: 20.670 ms
Loss rate: 8.42%
-- Flow 1:
Average throughput: 56.45 Mbit/s
95th percentile per-packet one-way delay: 20.670 ms
Loss rate: 8.42%
```
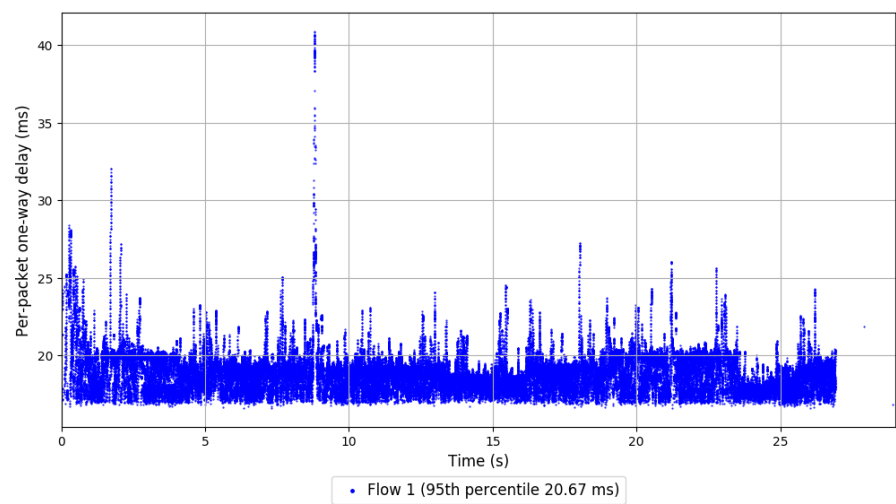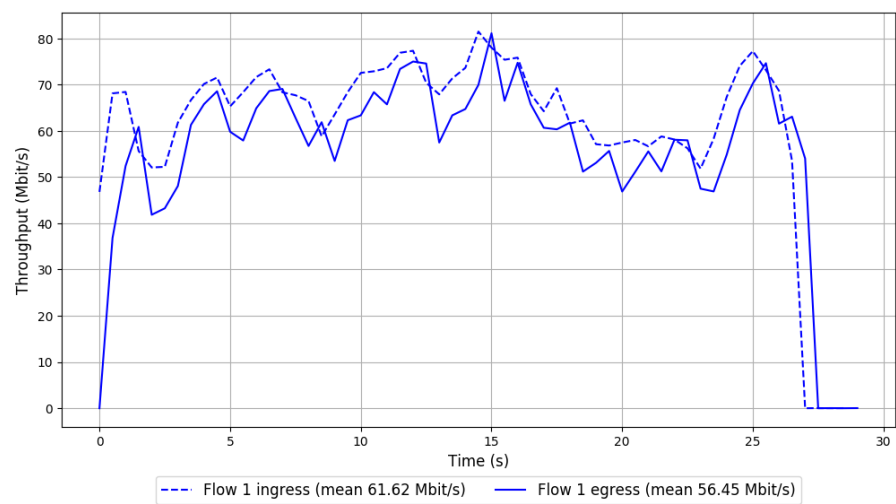
Run 3: Report of Indigo — Data Link

Flow 1 ingress (mean 61.62 Mbit/s) —— Flow 1 egress (mean 56.45 Mbit/s)

• Flow 1 (95th percentile 20.67 ms)

```
Run 4: Statistics of Indigo

Start at: 2018-07-03 11:20:19
End at: 2018-07-03 11:20:49
Local clock offset: -7.298 ms
Remote clock offset: 5.419 ms

# Below is generated by plot.py at 2018-07-03 13:44:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.56 Mbit/s
95th percentile per-packet one-way delay: 13.540 ms
Loss rate: 7.33%
-- Flow 1:
Average throughput: 68.56 Mbit/s
95th percentile per-packet one-way delay: 13.540 ms
Loss rate: 7.33%
```
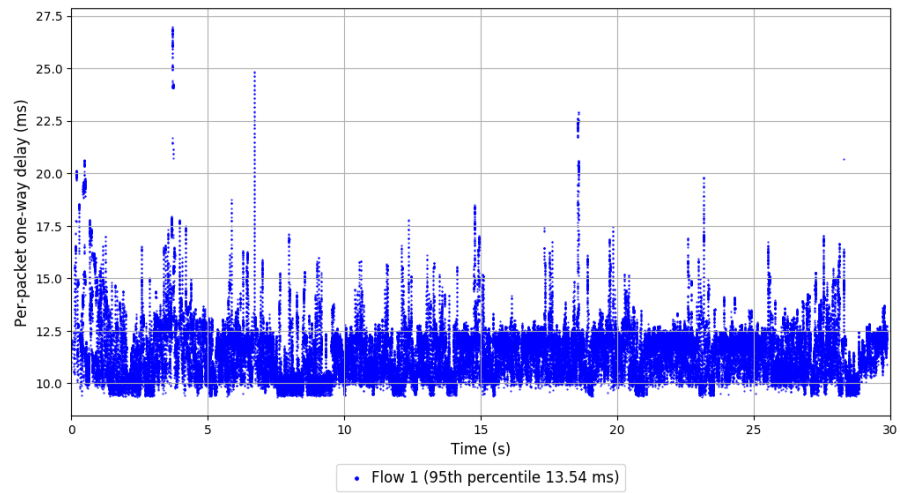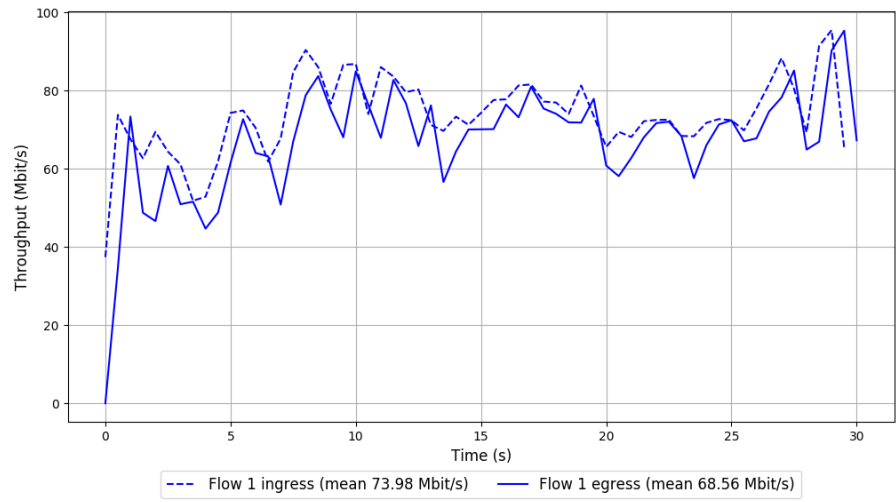
Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2018-07-03 11:39:48
End at: 2018-07-03 11:40:18
Local clock offset: -4.077 ms
Remote clock offset: 3.071 ms


# Below is generated by plot.py at 2018-07-03 13:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 10.300 ms
Loss rate: 4.86%
-- Flow 1:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 10.300 ms
Loss rate: 4.86%
```
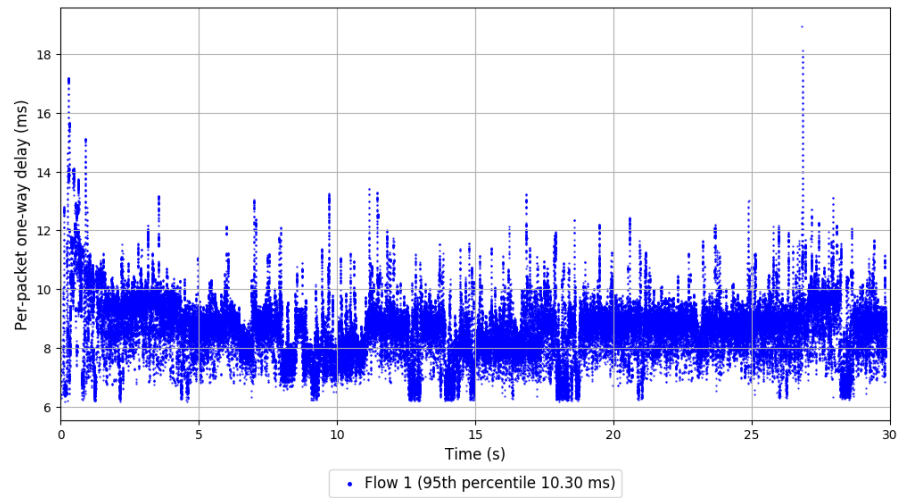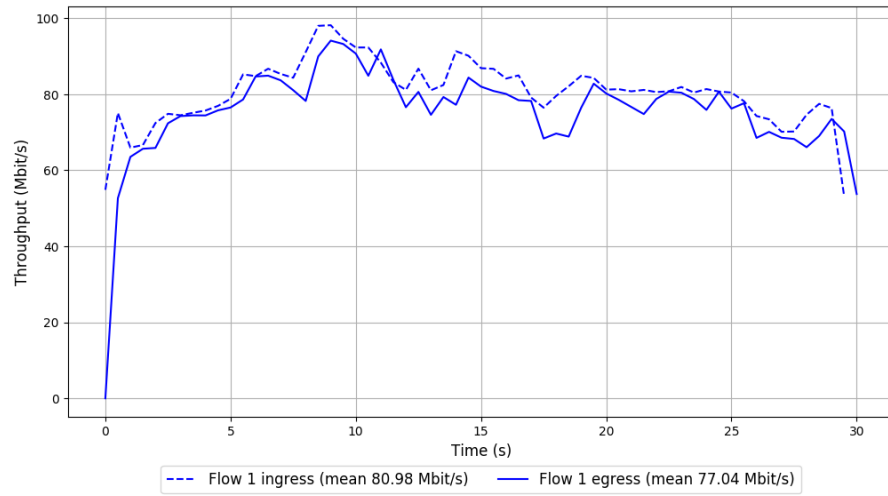
Run 5: Report of Indigo — Data Link

Flow 1 ingress (mean 80.98 Mbit/s)   Flow 1 egress (mean 77.04 Mbit/s)
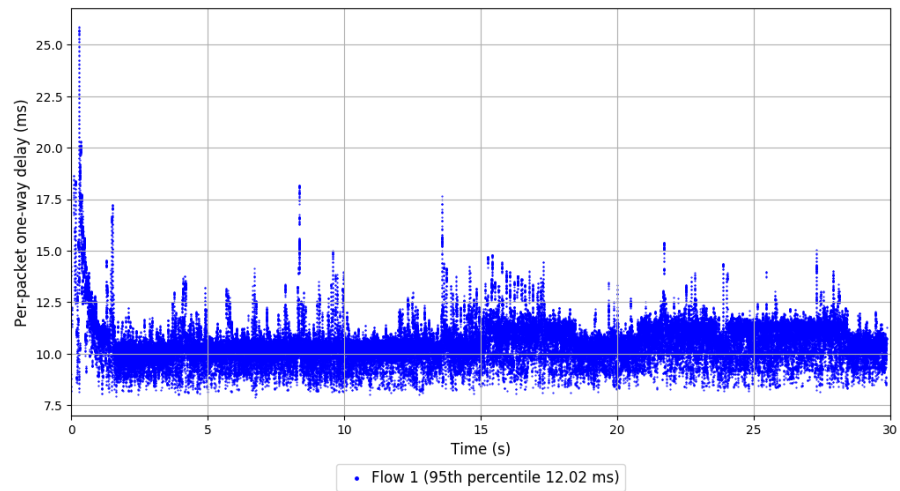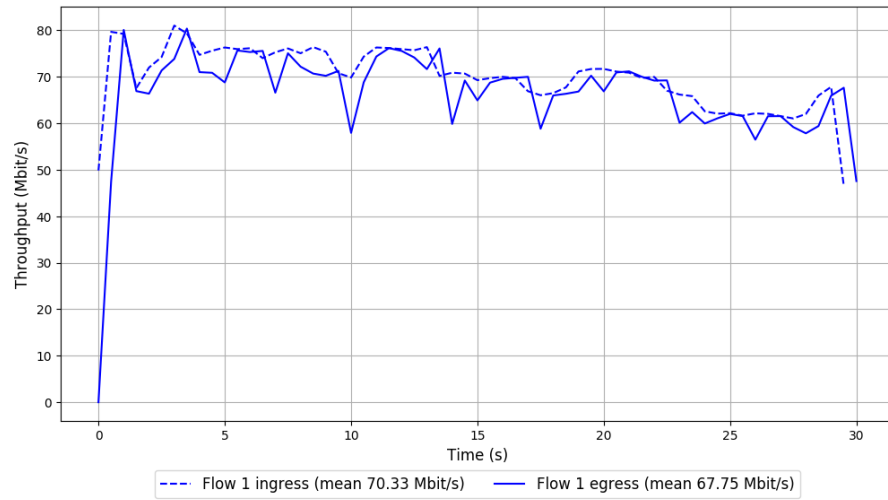

Flow 1 (95th percentile 10.30 ms)

```
Run 6: Statistics of Indigo

Start at: 2018-07-03 11:58:59
End at: 2018-07-03 11:59:29
Local clock offset: -2.487 ms
Remote clock offset: -0.994 ms


# Below is generated by plot.py at 2018-07-03 13:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.75 Mbit/s
95th percentile per-packet one-way delay: 12.016 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 67.75 Mbit/s
95th percentile per-packet one-way delay: 12.016 ms
Loss rate: 3.66%
```
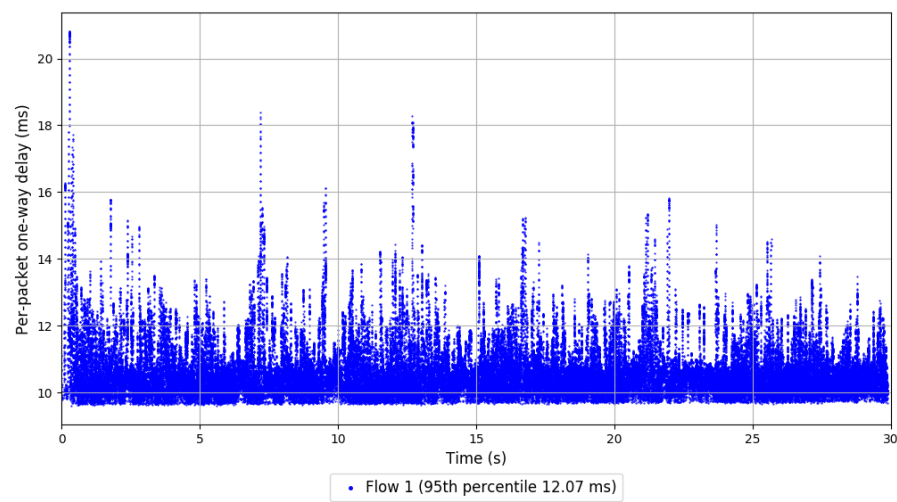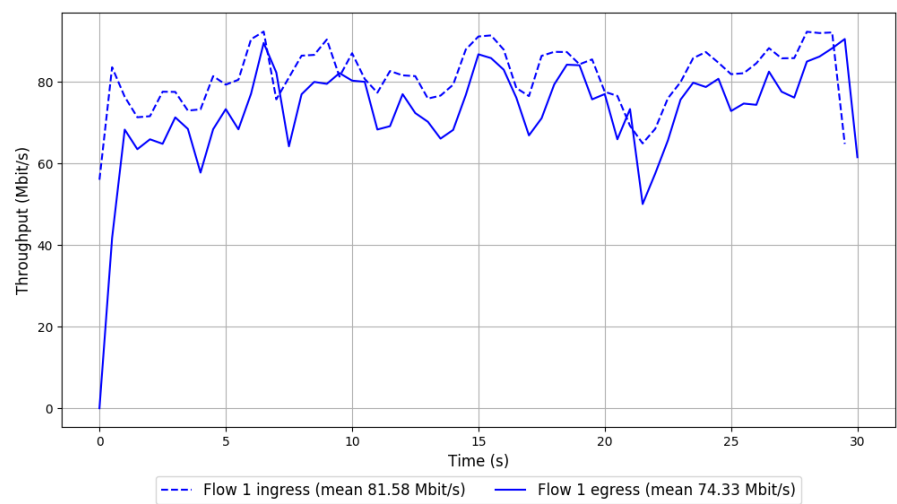
Run 6: Report of Indigo — Data Link

```
Run 7: Statistics of Indigo

Start at: 2018-07-03 12:18:19
End at: 2018-07-03 12:18:49
Local clock offset: -7.1 ms
Remote clock offset: -8.825 ms


# Below is generated by plot.py at 2018-07-03 13:45:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.33 Mbit/s
95th percentile per-packet one-way delay: 12.068 ms
Loss rate: 8.90%
-- Flow 1:
Average throughput: 74.33 Mbit/s
95th percentile per-packet one-way delay: 12.068 ms
Loss rate: 8.90%
```

Run 7: Report of Indigo — Data Link

Flow 1 ingress (mean 81.58 Mbit/s)   Flow 1 egress (mean 74.33 Mbit/s)
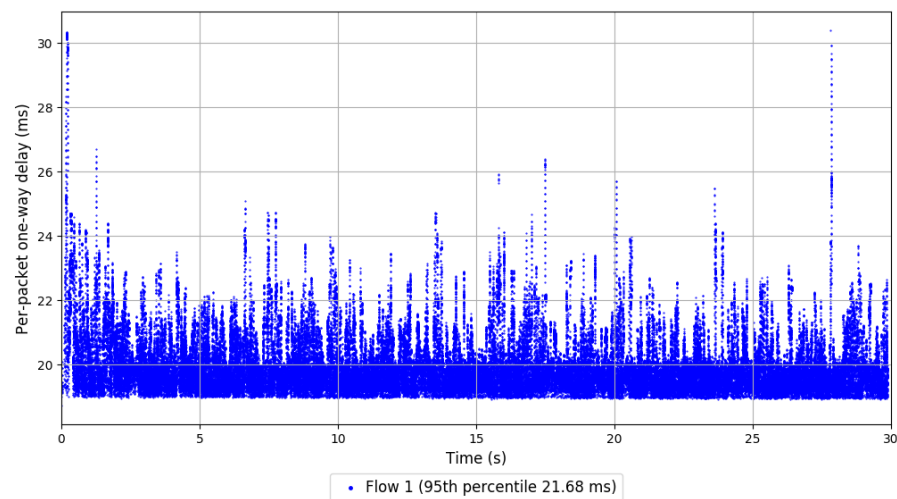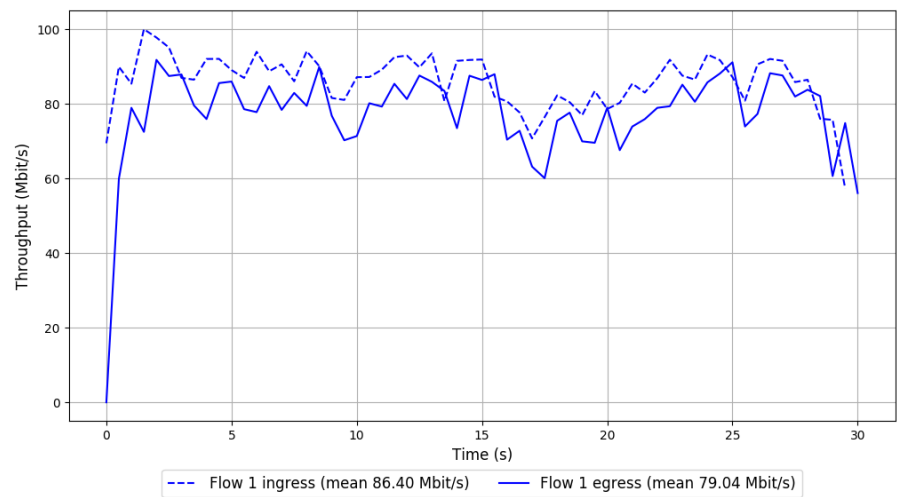

• Flow 1 (95th percentile 12.07 ms)

```
Run 8: Statistics of Indigo

Start at: 2018-07-03 12:37:29
End at: 2018-07-03 12:37:59
Local clock offset: -17.491 ms
Remote clock offset: -8.886 ms


# Below is generated by plot.py at 2018-07-03 13:45:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.04 Mbit/s
95th percentile per-packet one-way delay: 21.678 ms
Loss rate: 8.51%
-- Flow 1:
Average throughput: 79.04 Mbit/s
95th percentile per-packet one-way delay: 21.678 ms
Loss rate: 8.51%
```

Run 8: Report of Indigo — Data Link

Flow 1 ingress (mean 86.40 Mbit/s)   Flow 1 egress (mean 79.04 Mbit/s)
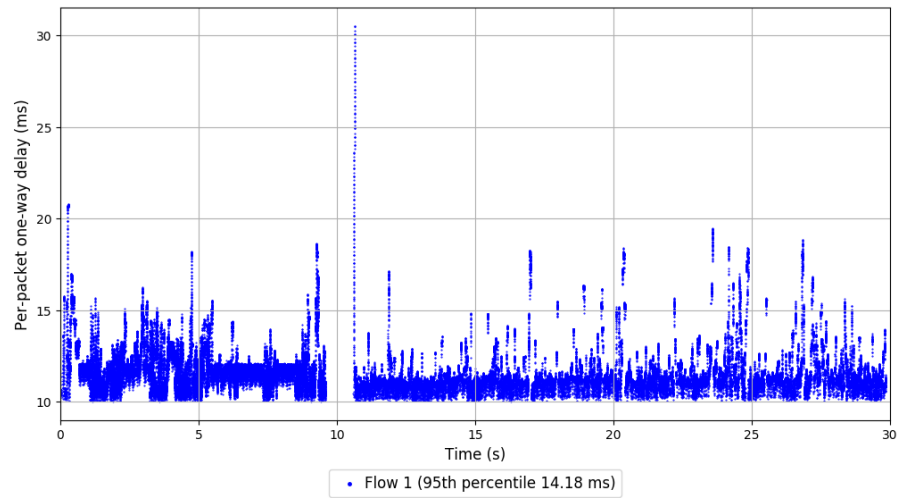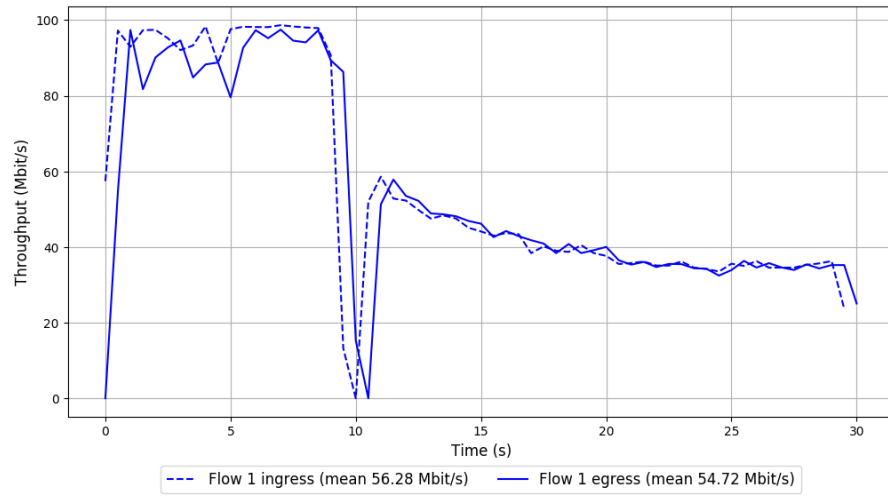

Flow 1 (95th percentile 21.68 ms)

```
Run 9: Statistics of Indigo

Start at: 2018-07-03 12:56:42
End at: 2018-07-03 12:57:12
Local clock offset: -8.024 ms
Remote clock offset: -8.404 ms


# Below is generated by plot.py at 2018-07-03 13:45:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 14.181 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 54.72 Mbit/s
95th percentile per-packet one-way delay: 14.181 ms
Loss rate: 2.78%
```

Run 9: Report of Indigo — Data Link

Flow 1 ingress (mean 56.28 Mbit/s)   Flow 1 egress (mean 54.72 Mbit/s)

• Flow 1 (95th percentile 14.18 ms)

121

```
Run 10: Statistics of Indigo

Start at: 2018-07-03 13:16:10
End at: 2018-07-03 13:16:40
Local clock offset: 3.275 ms
Remote clock offset: -7.885 ms


# Below is generated by plot.py at 2018-07-03 13:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.50 Mbit/s
95th percentile per-packet one-way delay: 10.227 ms
Loss rate: 9.38%
-- Flow 1:
Average throughput: 80.50 Mbit/s
95th percentile per-packet one-way delay: 10.227 ms
Loss rate: 9.38%
```
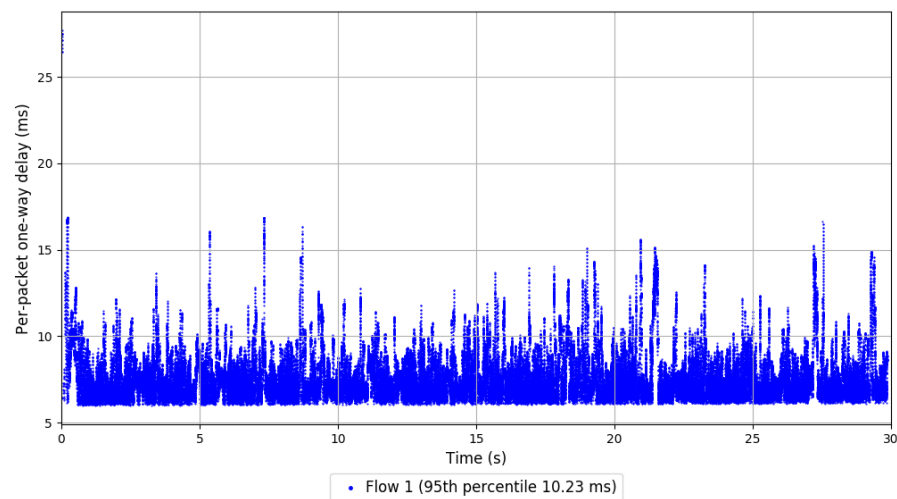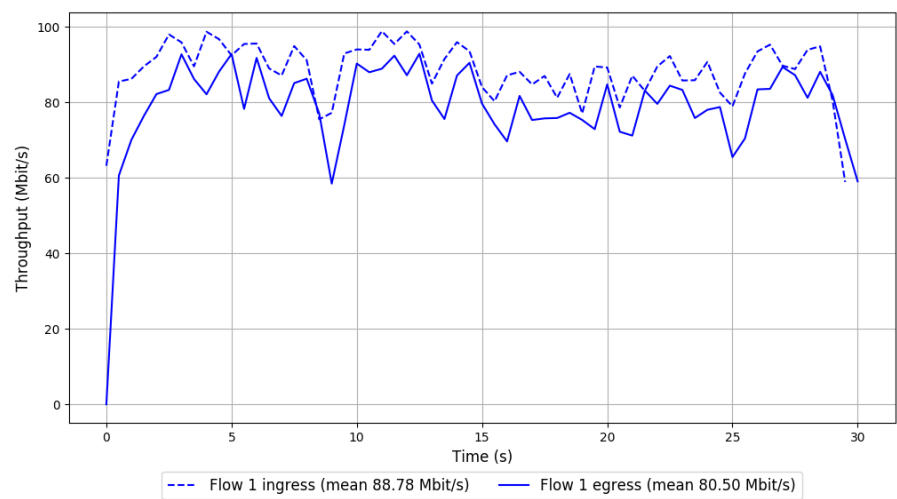
Run 10: Report of Indigo — Data Link

Flow 1 ingress (mean 88.78 Mbit/s) — — — Flow 1 egress (mean 80.50 Mbit/s)

· Flow 1 (95th percentile 10.23 ms)

123

```
Run 1: Statistics of LEDBAT

Start at: 2018-07-03 10:27:27
End at: 2018-07-03 10:27:57
Local clock offset: -7.487 ms
Remote clock offset: 1.334 ms

# Below is generated by plot.py at 2018-07-03 13:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 19.776 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 30.94 Mbit/s
95th percentile per-packet one-way delay: 19.776 ms
Loss rate: 0.11%
```
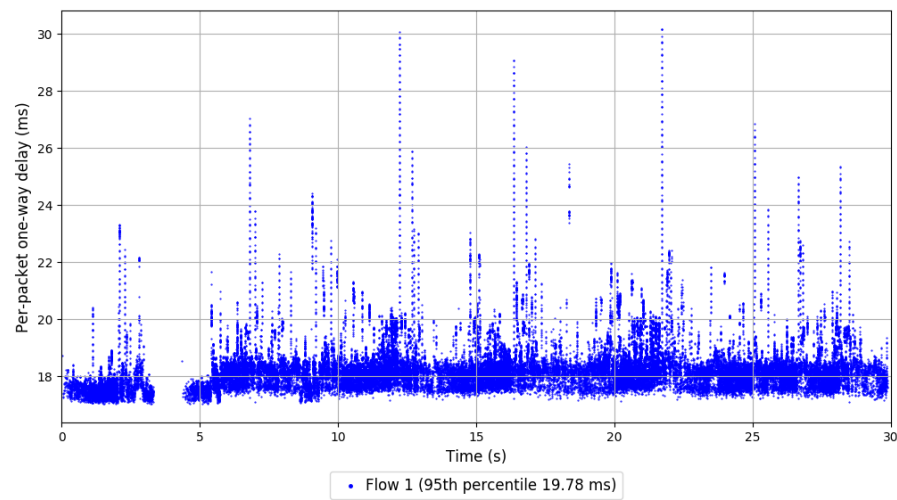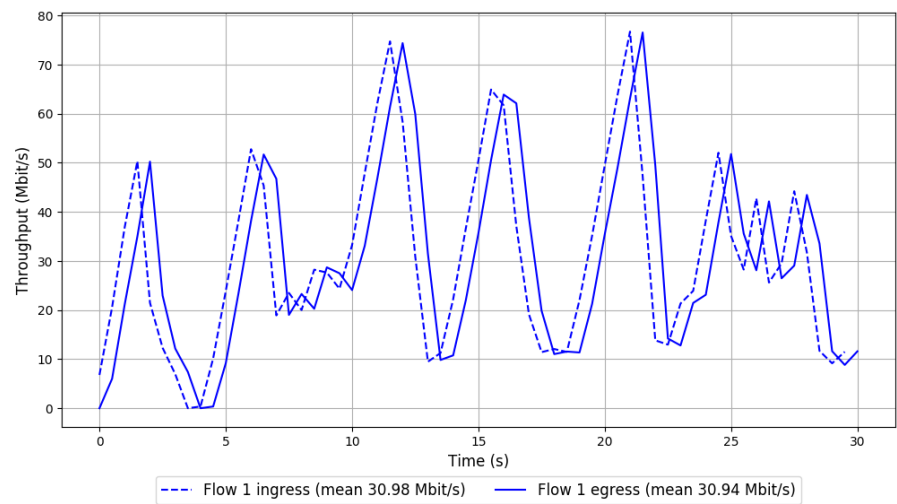
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2018-07-03 10:47:01
End at: 2018-07-03 10:47:31
Local clock offset: -3.172 ms
Remote clock offset: 4.81 ms


# Below is generated by plot.py at 2018-07-03 13:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 15.398 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 29.95 Mbit/s
95th percentile per-packet one-way delay: 15.398 ms
Loss rate: 0.21%
```
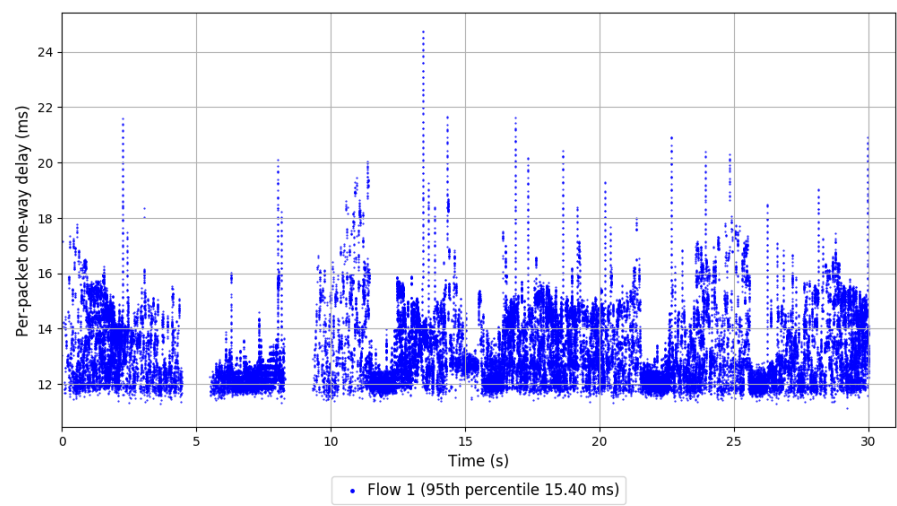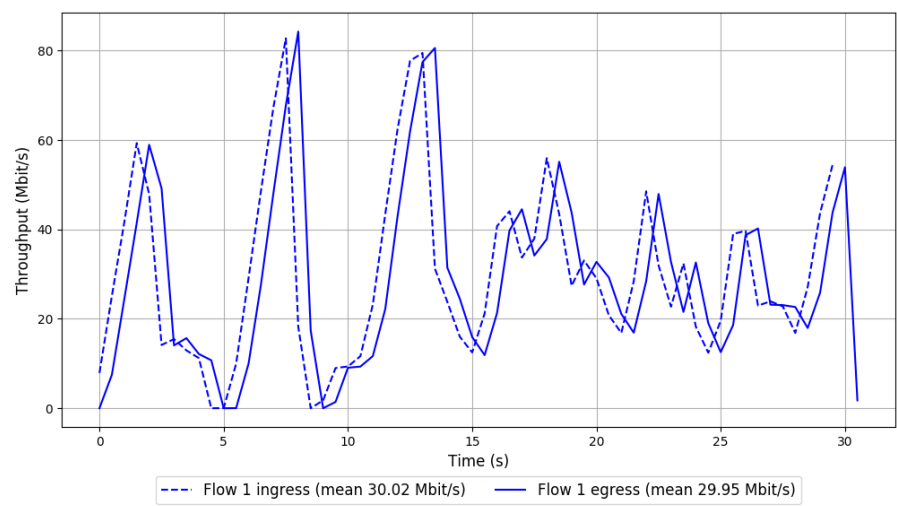
Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 30.02 Mbit/s) ----- Flow 1 egress (mean 29.95 Mbit/s) ——

Flow 1 (95th percentile 15.40 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2018-07-03 11:06:28
End at: 2018-07-03 11:06:58
Local clock offset: -6.902 ms
Remote clock offset: 4.605 ms

# Below is generated by plot.py at 2018-07-03 13:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.01 Mbit/s
95th percentile per-packet one-way delay: 19.333 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 24.01 Mbit/s
95th percentile per-packet one-way delay: 19.333 ms
Loss rate: 0.21%
```
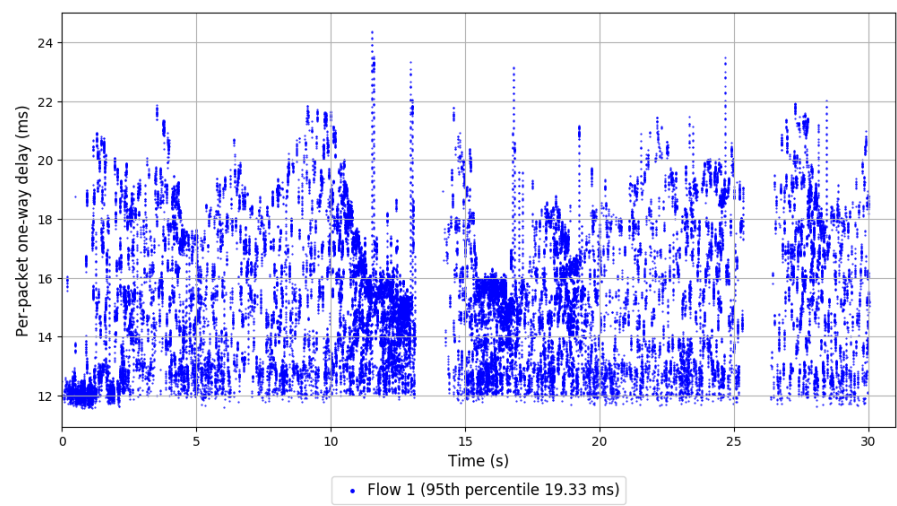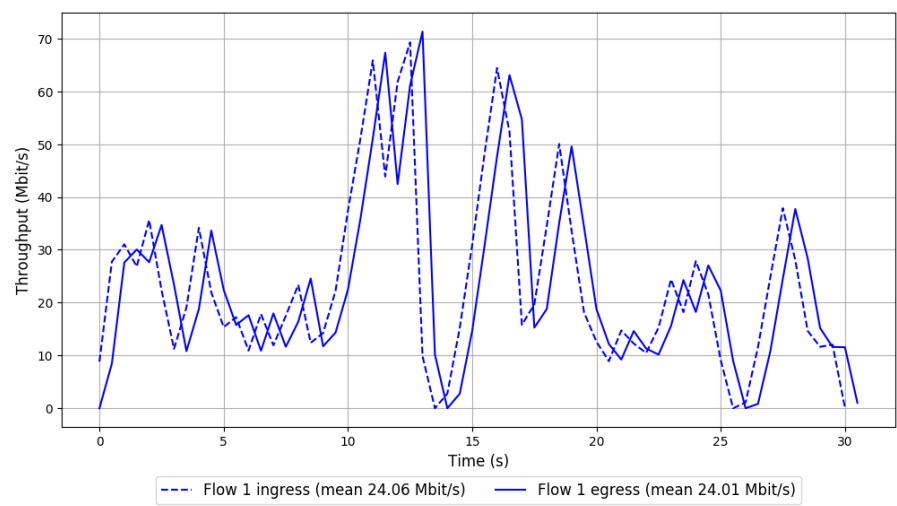
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2018-07-03 11:25:53
End at: 2018-07-03 11:26:23
Local clock offset: -8.848 ms
Remote clock offset: 4.87 ms


# Below is generated by plot.py at 2018-07-03 13:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.00 Mbit/s
95th percentile per-packet one-way delay: 22.341 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 53.00 Mbit/s
95th percentile per-packet one-way delay: 22.341 ms
Loss rate: 0.04%
```
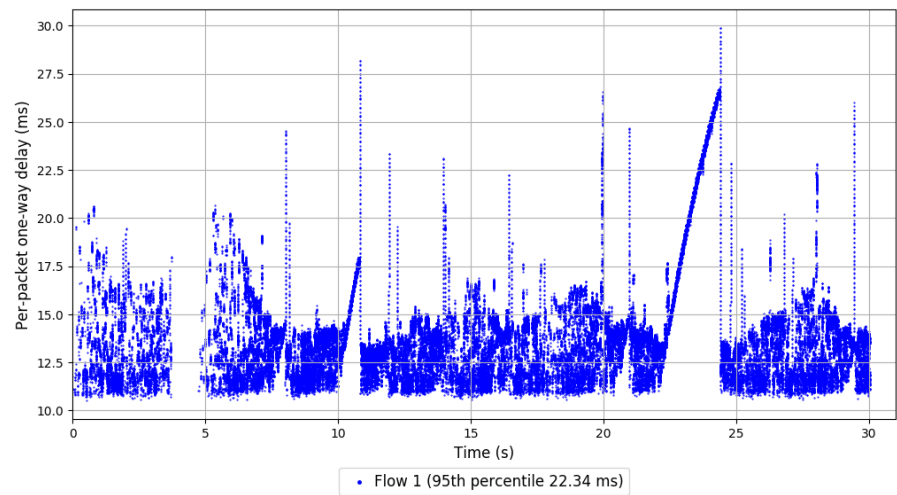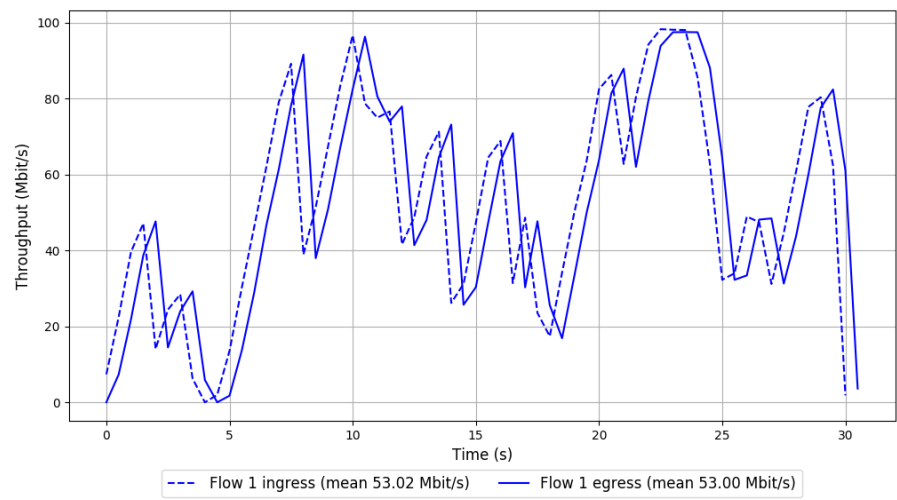
Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2018-07-03 11:45:21
End at: 2018-07-03 11:45:51
Local clock offset: -5.288 ms
Remote clock offset: 3.377 ms


# Below is generated by plot.py at 2018-07-03 13:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 15.284 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 15.284 ms
Loss rate: 0.11%
```
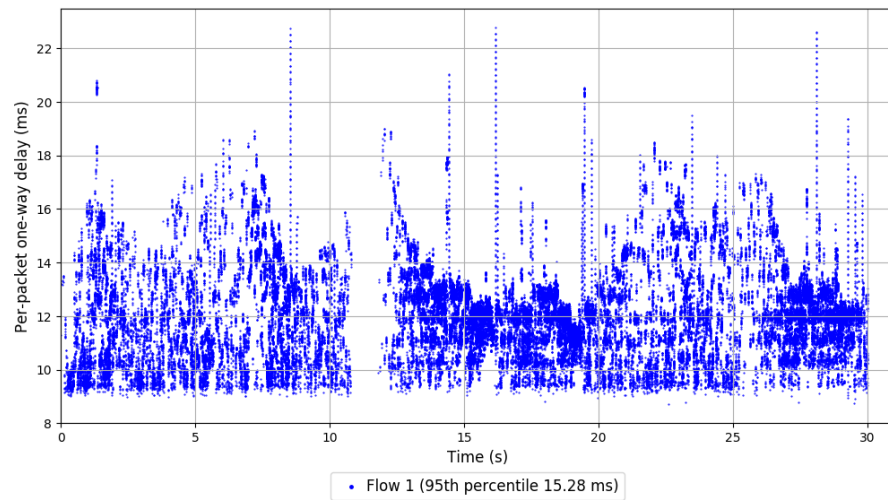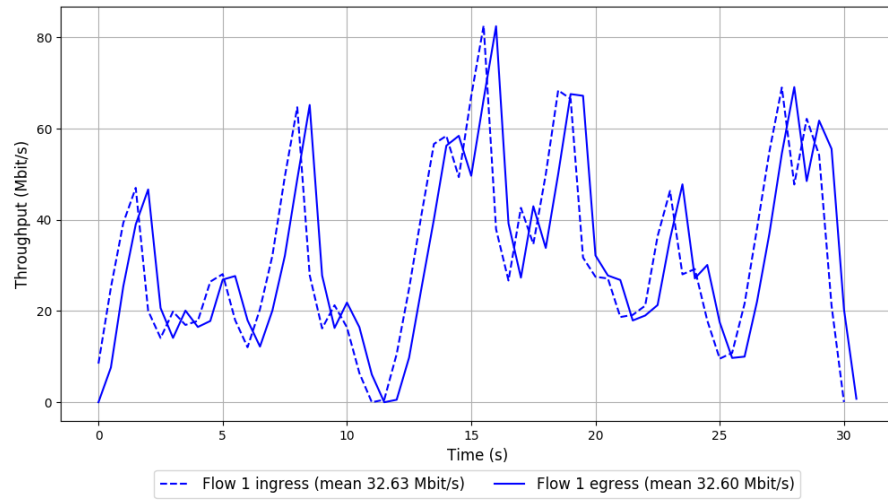
Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 32.63 Mbit/s) --- Flow 1 egress (mean 32.60 Mbit/s)

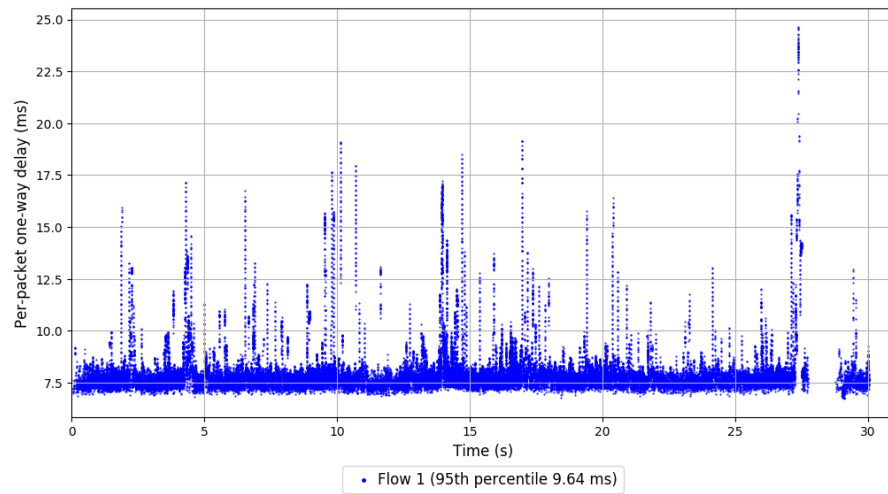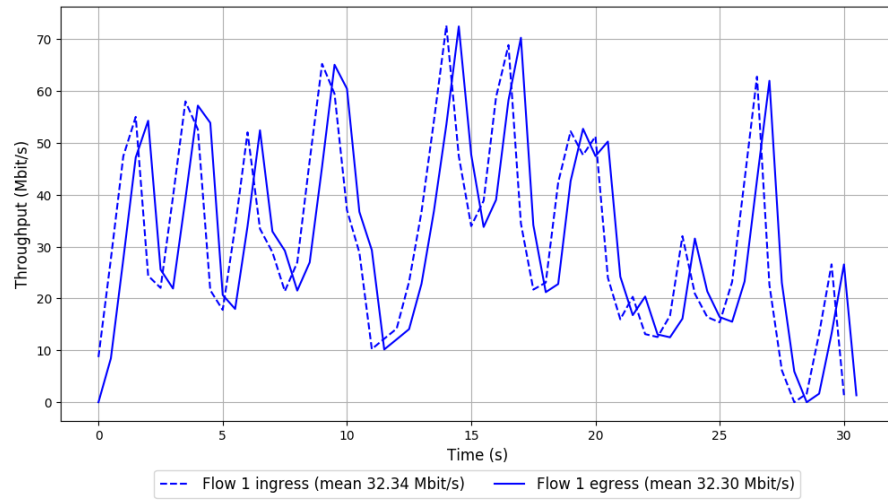

• Flow 1 (95th percentile 15.28 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2018-07-03 12:04:34
End at: 2018-07-03 12:05:04
Local clock offset: -2.534 ms
Remote clock offset: -5.009 ms


# Below is generated by plot.py at 2018-07-03 13:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 9.638 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 32.30 Mbit/s
95th percentile per-packet one-way delay: 9.638 ms
Loss rate: 0.13%
```

Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 32.34 Mbit/s) --- Flow 1 egress (mean 32.30 Mbit/s)
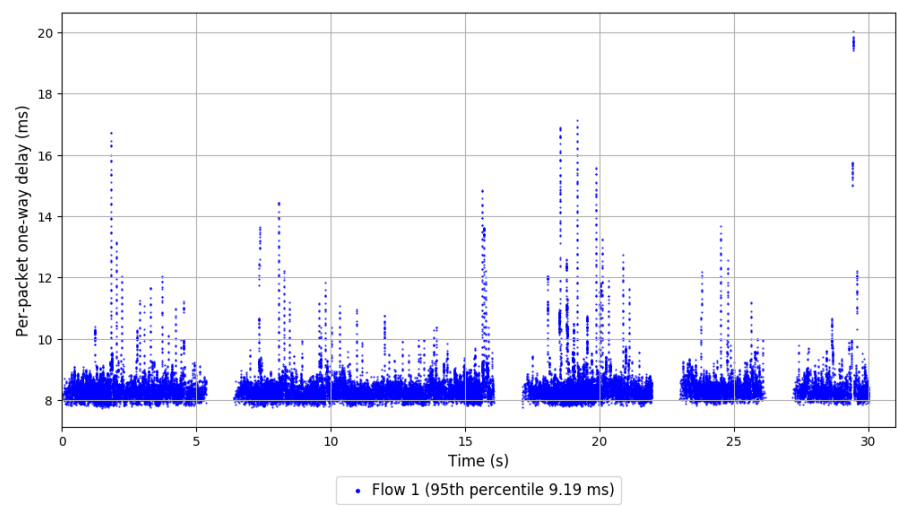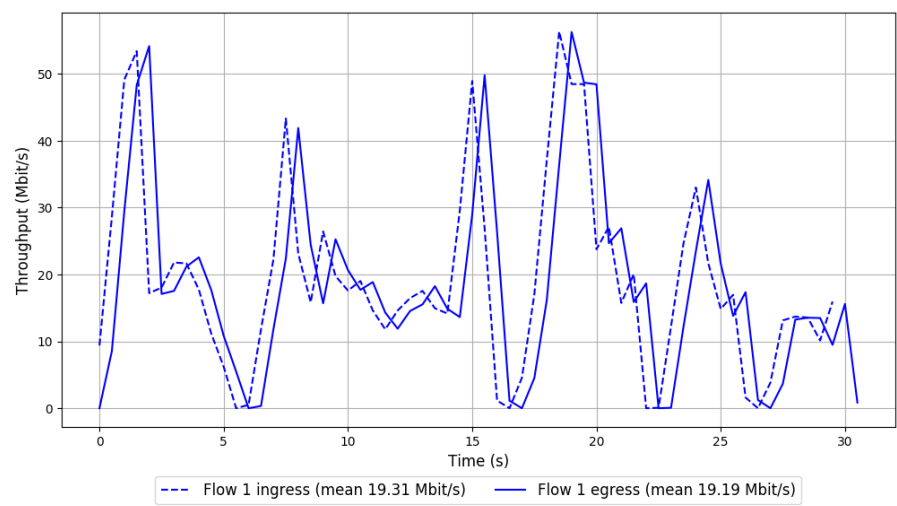

Flow 1 (95th percentile 9.64 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2018-07-03 12:23:51
End at: 2018-07-03 12:24:21
Local clock offset: -5.117 ms
Remote clock offset: -9.699 ms


# Below is generated by plot.py at 2018-07-03 13:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.19 Mbit/s
95th percentile per-packet one-way delay: 9.189 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 19.19 Mbit/s
95th percentile per-packet one-way delay: 9.189 ms
Loss rate: 0.61%
```

Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 19.31 Mbit/s)   —— Flow 1 egress (mean 19.19 Mbit/s)
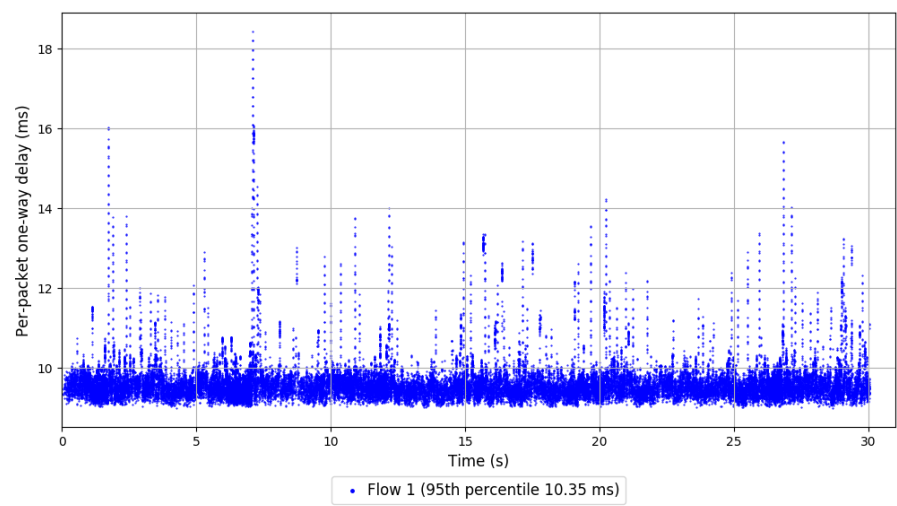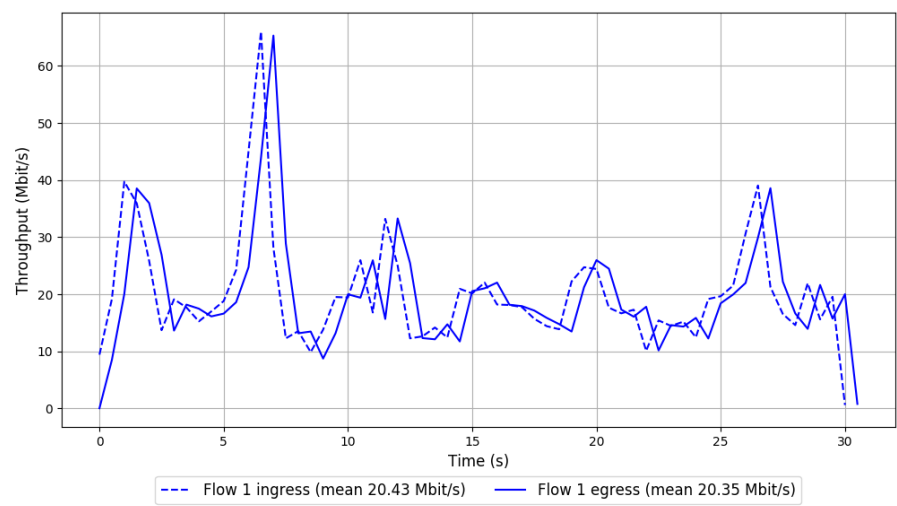

• Flow 1 (95th percentile 9.19 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2018-07-03 12:43:05
End at: 2018-07-03 12:43:35
Local clock offset: -7.973 ms
Remote clock offset: -9.058 ms


# Below is generated by plot.py at 2018-07-03 13:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 10.353 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 10.353 ms
Loss rate: 0.37%
```
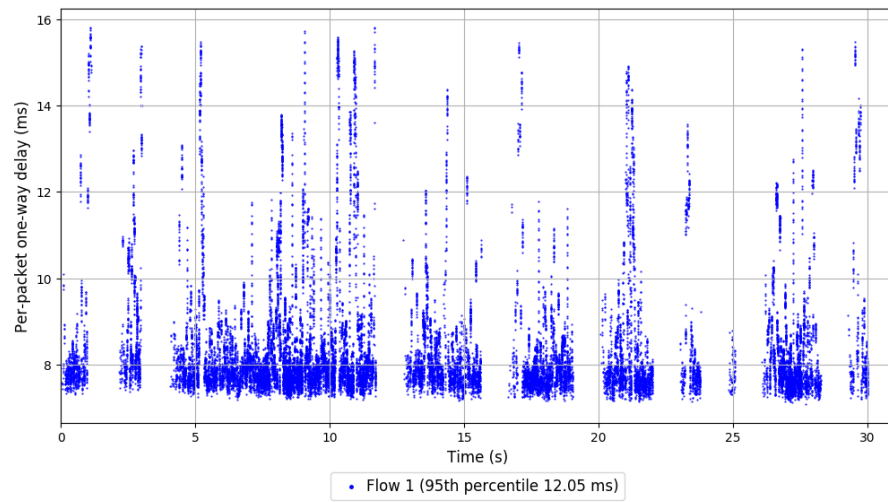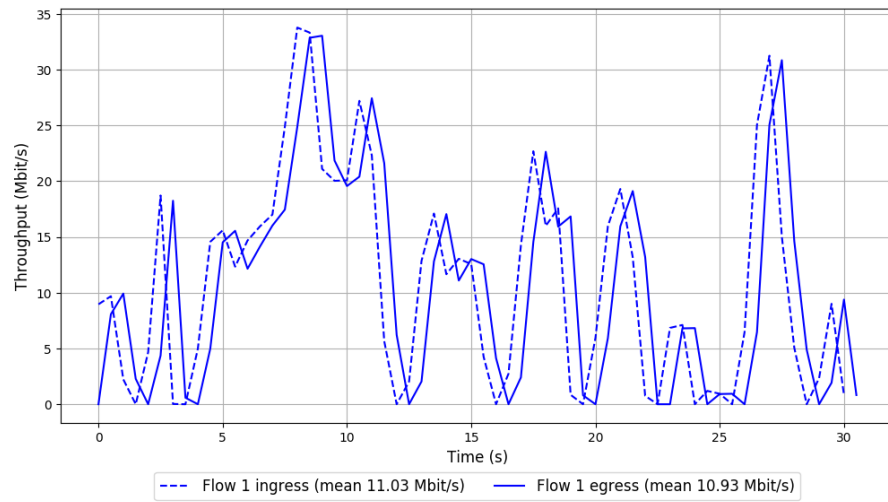
Run 8: Report of LEDBAT — Data Link

```
Run 9: Statistics of LEDBAT

Start at: 2018-07-03 13:02:25
End at: 2018-07-03 13:02:55
Local clock offset: -6.687 ms
Remote clock offset: -10.187 ms


# Below is generated by plot.py at 2018-07-03 13:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 12.047 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 10.93 Mbit/s
95th percentile per-packet one-way delay: 12.047 ms
Loss rate: 0.90%
```

Run 9: Report of LEDBAT — Data Link

```
Run 10: Statistics of LEDBAT

Start at: 2018-07-03 13:21:47
End at: 2018-07-03 13:22:18
Local clock offset: 2.328 ms
Remote clock offset: -8.06 ms


# Below is generated by plot.py at 2018-07-03 13:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.52 Mbit/s
95th percentile per-packet one-way delay: 11.919 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 15.52 Mbit/s
95th percentile per-packet one-way delay: 11.919 ms
Loss rate: 0.67%
```
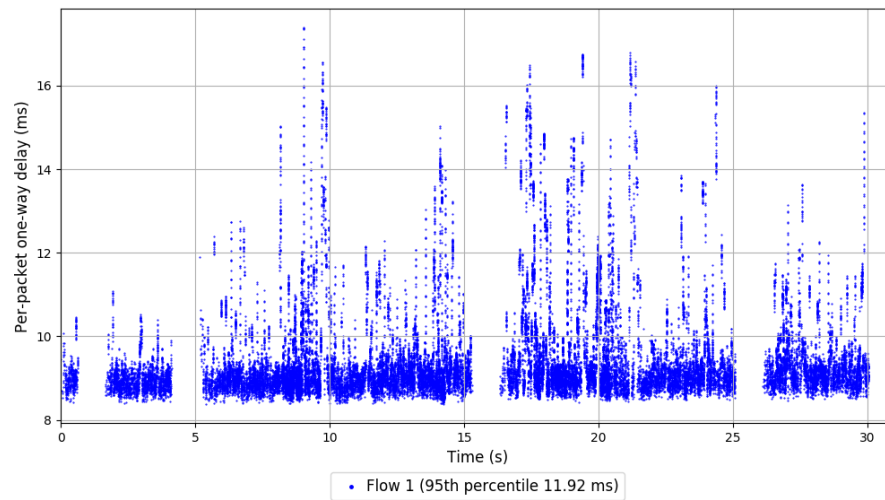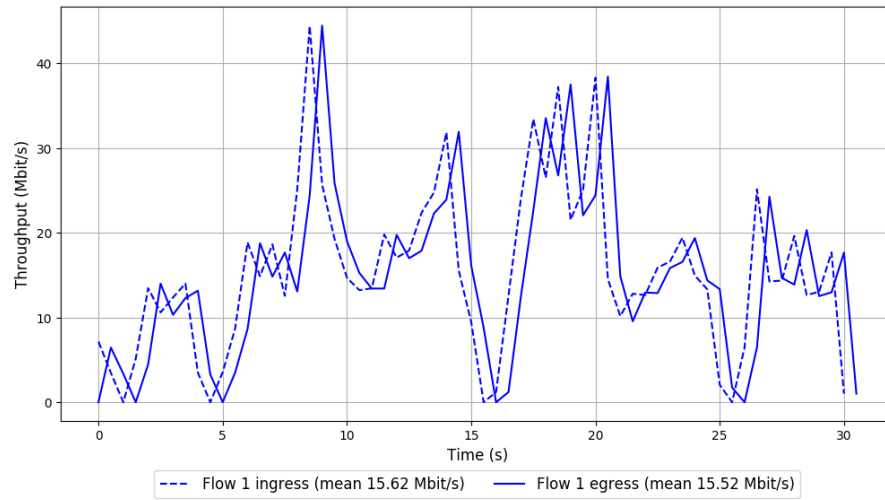
Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 15.62 Mbit/s) --- Flow 1 egress (mean 15.52 Mbit/s)

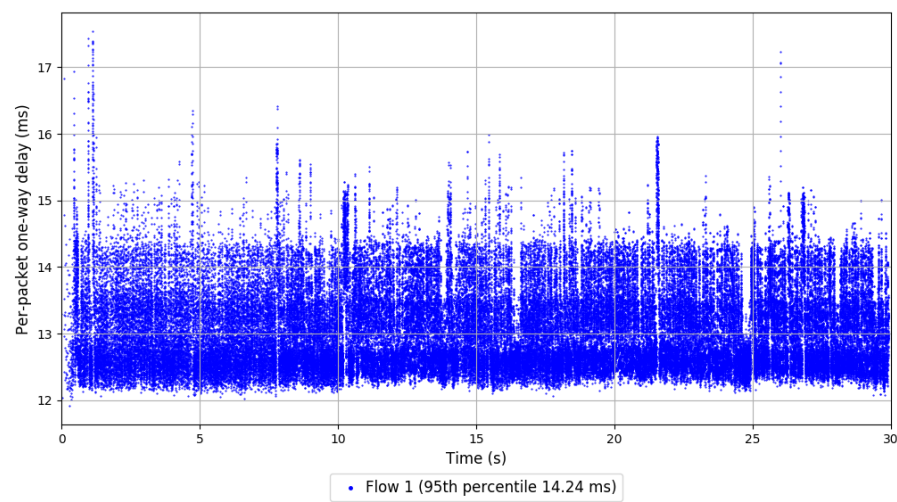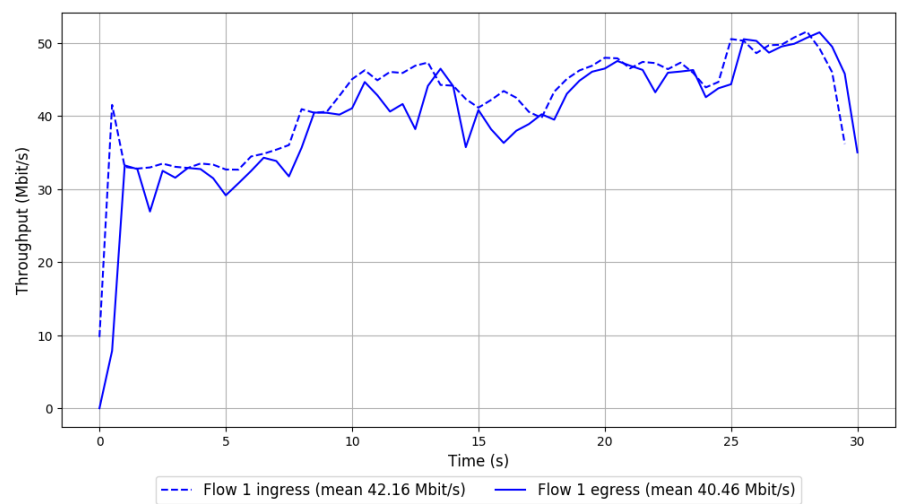

• Flow 1 (95th percentile 11.92 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-03 10:24:08
End at: 2018-07-03 10:24:38
Local clock offset: -3.138 ms
Remote clock offset: 0.046 ms


# Below is generated by plot.py at 2018-07-03 13:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 14.237 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 40.46 Mbit/s
95th percentile per-packet one-way delay: 14.237 ms
Loss rate: 4.05%
```

Run 1: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 42.16 Mbit/s)   Flow 1 egress (mean 40.46 Mbit/s)

Flow 1 (95th percentile 14.24 ms)

```
Run 2: Statistics of PCC-Allegro

Start at: 2018-07-03 10:43:45
End at: 2018-07-03 10:44:15
Local clock offset: -2.333 ms
Remote clock offset: 4.354 ms


# Below is generated by plot.py at 2018-07-03 13:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.61 Mbit/s
95th percentile per-packet one-way delay: 18.061 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 4.61 Mbit/s
95th percentile per-packet one-way delay: 18.061 ms
Loss rate: 0.47%
```
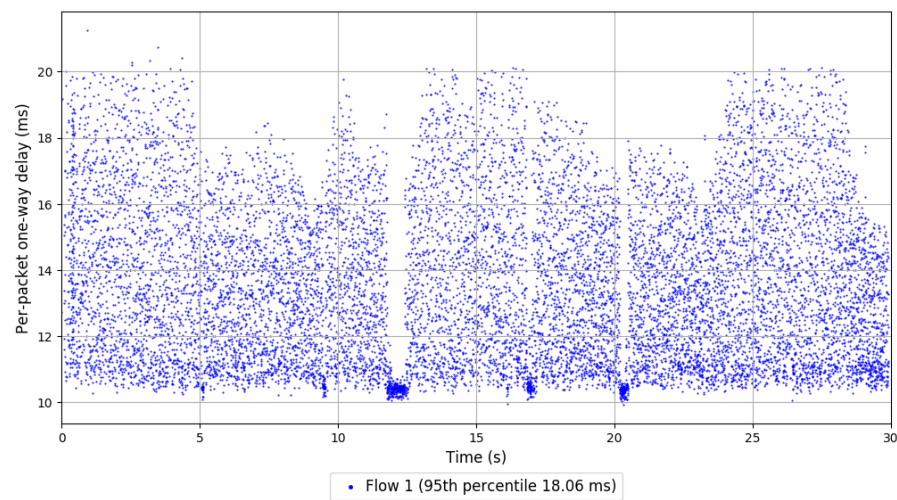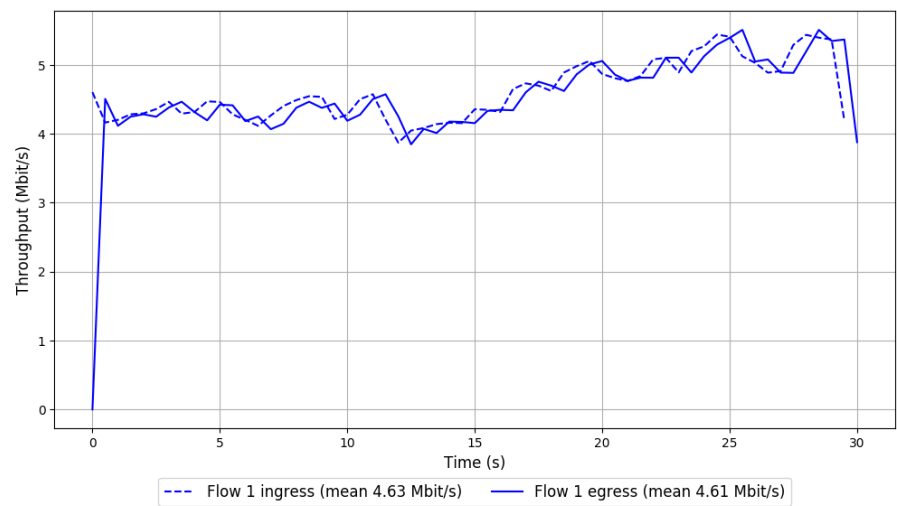
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2018-07-03 11:03:08
End at: 2018-07-03 11:03:38
Local clock offset: -5.029 ms
Remote clock offset: 3.581 ms


# Below is generated by plot.py at 2018-07-03 13:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 18.013 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 18.013 ms
Loss rate: 0.76%
```
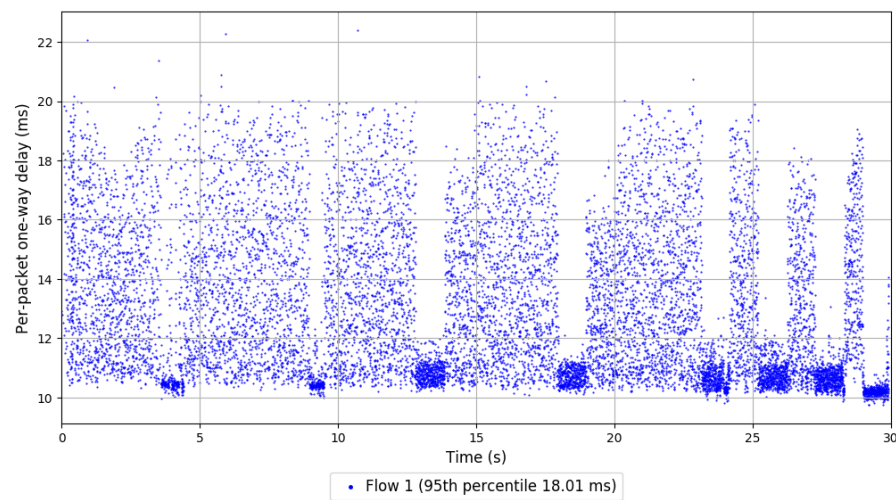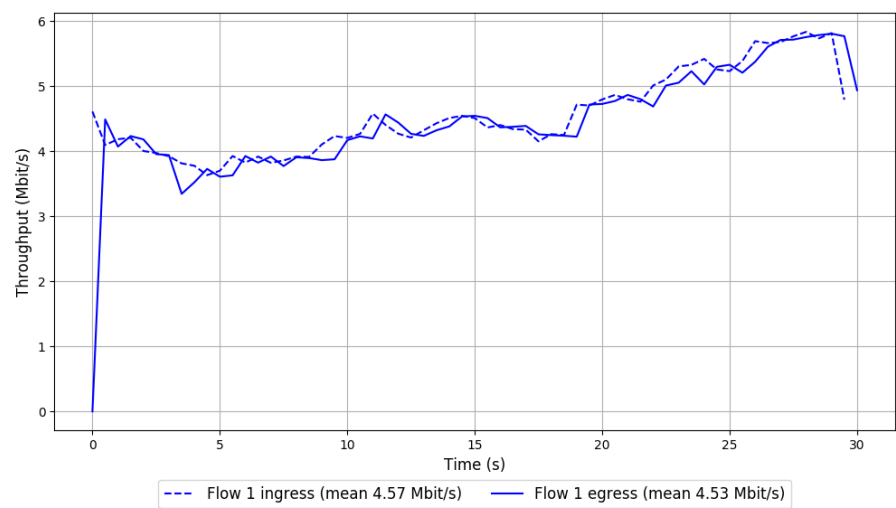
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 4.57 Mbit/s)   Flow 1 egress (mean 4.53 Mbit/s)

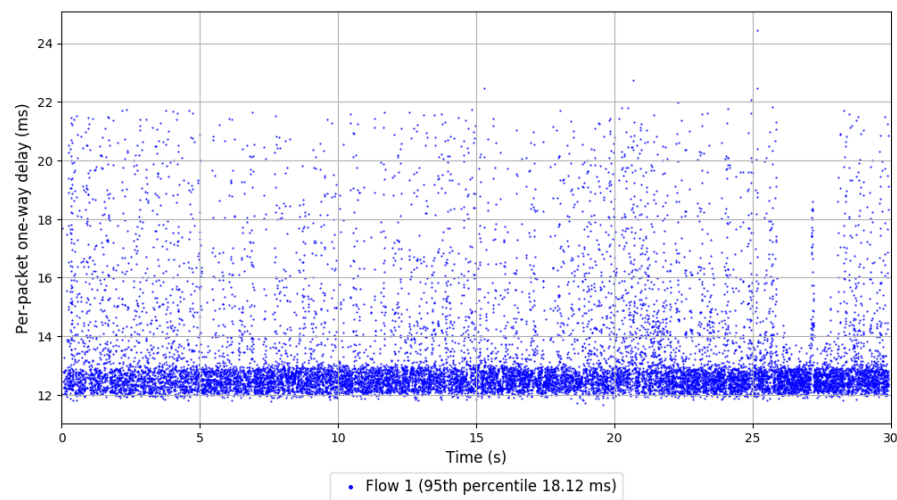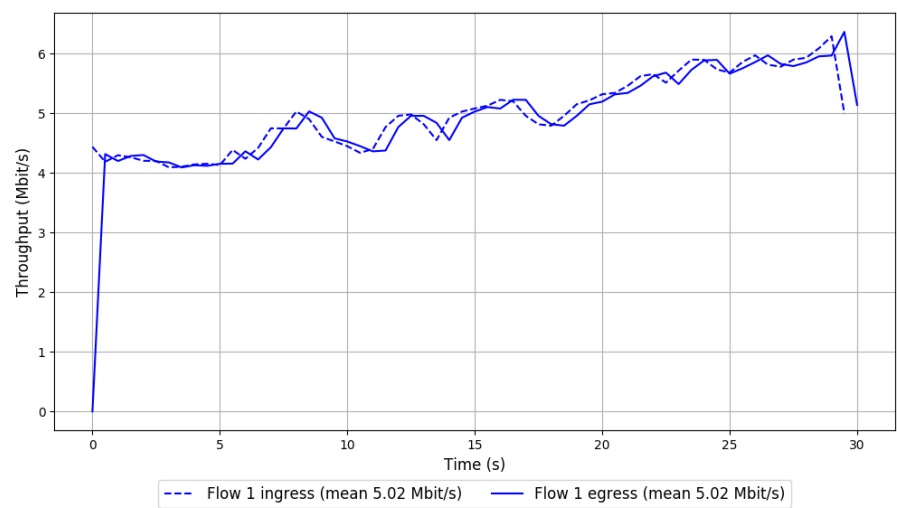

• Flow 1 (95th percentile 18.01 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2018-07-03 11:22:40
End at: 2018-07-03 11:23:10
Local clock offset: -10.348 ms
Remote clock offset: 4.816 ms

# Below is generated by plot.py at 2018-07-03 13:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 18.121 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 5.02 Mbit/s
95th percentile per-packet one-way delay: 18.121 ms
Loss rate: 0.02%
```

Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 5.02 Mbit/s)   Flow 1 egress (mean 5.02 Mbit/s)

Flow 1 (95th percentile 18.12 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2018-07-03 11:42:03
End at: 2018-07-03 11:42:33
Local clock offset: -5.911 ms
Remote clock offset: 4.064 ms


# Below is generated by plot.py at 2018-07-03 13:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 14.536 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 33.24 Mbit/s
95th percentile per-packet one-way delay: 14.536 ms
Loss rate: 0.17%
```
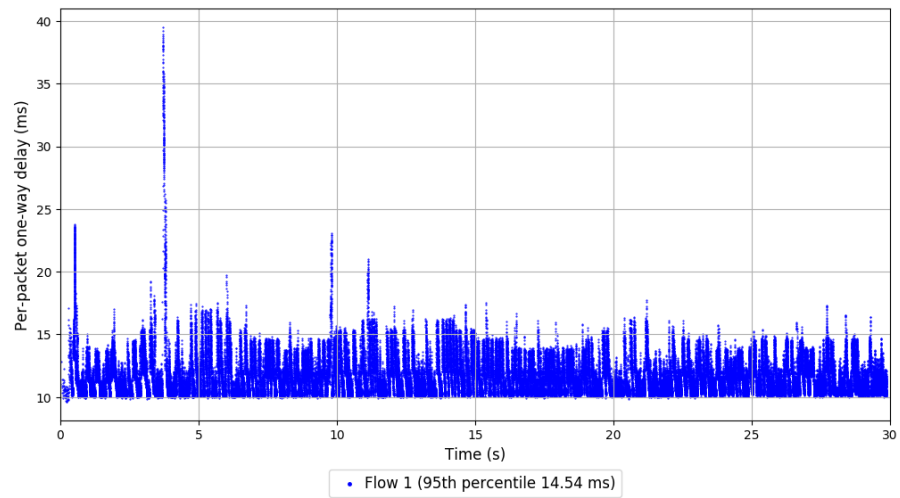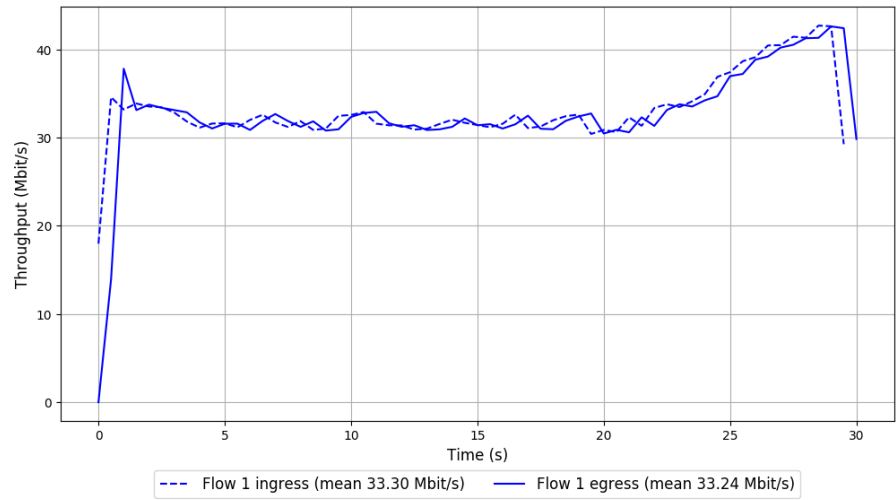
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 33.30 Mbit/s) —— Flow 1 egress (mean 33.24 Mbit/s)

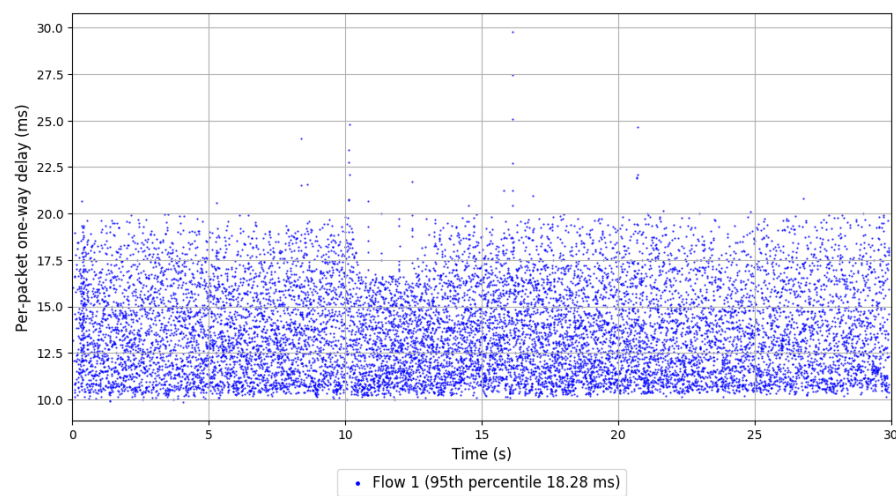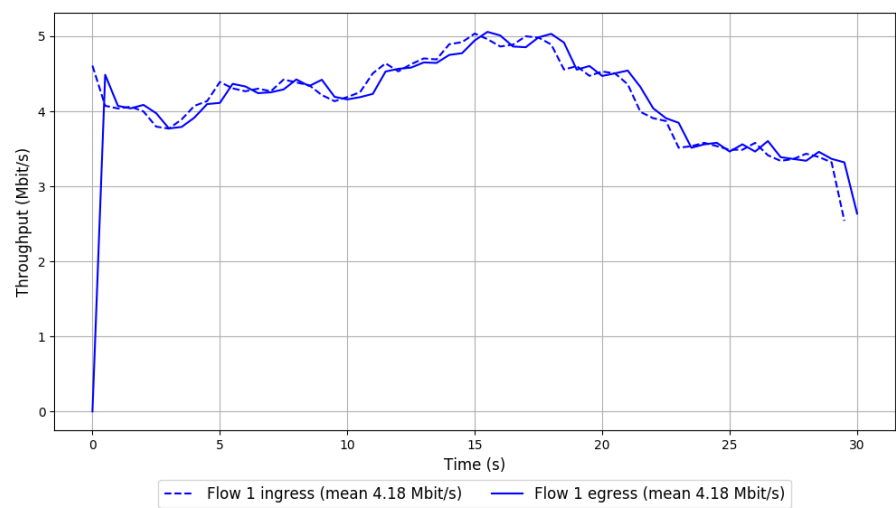

• Flow 1 (95th percentile 14.54 ms)

```
Run 6: Statistics of PCC-Allegro

Start at: 2018-07-03 12:01:13
End at: 2018-07-03 12:01:43
Local clock offset: -5.277 ms
Remote clock offset: -3.115 ms


# Below is generated by plot.py at 2018-07-03 13:45:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 18.277 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 4.18 Mbit/s
95th percentile per-packet one-way delay: 18.277 ms
Loss rate: 0.01%
```

Run 6: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 4.18 Mbit/s) --- Flow 1 egress (mean 4.18 Mbit/s)

· Flow 1 (95th percentile 18.28 ms)

```
Run 7: Statistics of PCC-Allegro

Start at: 2018-07-03 12:20:33
End at: 2018-07-03 12:21:03
Local clock offset: -4.151 ms
Remote clock offset: -9.007 ms


# Below is generated by plot.py at 2018-07-03 13:46:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 8.344 ms
Loss rate: 7.38%
-- Flow 1:
Average throughput: 71.20 Mbit/s
95th percentile per-packet one-way delay: 8.344 ms
Loss rate: 7.38%
```
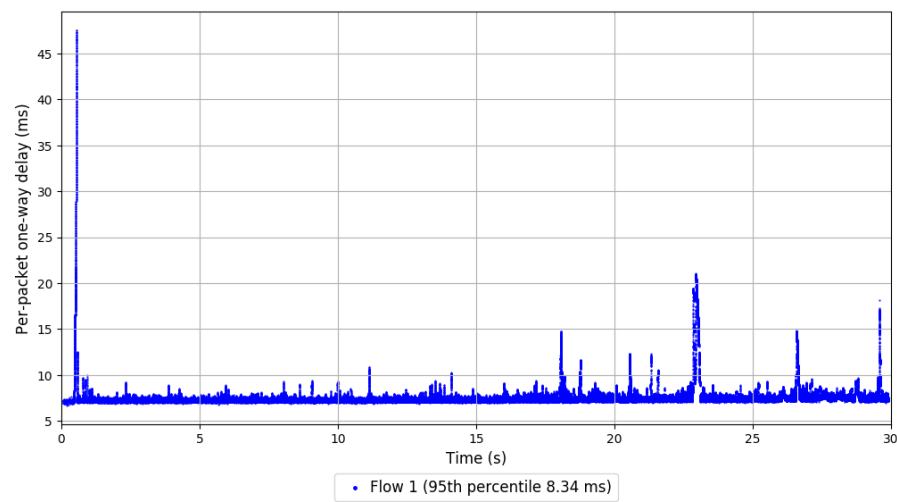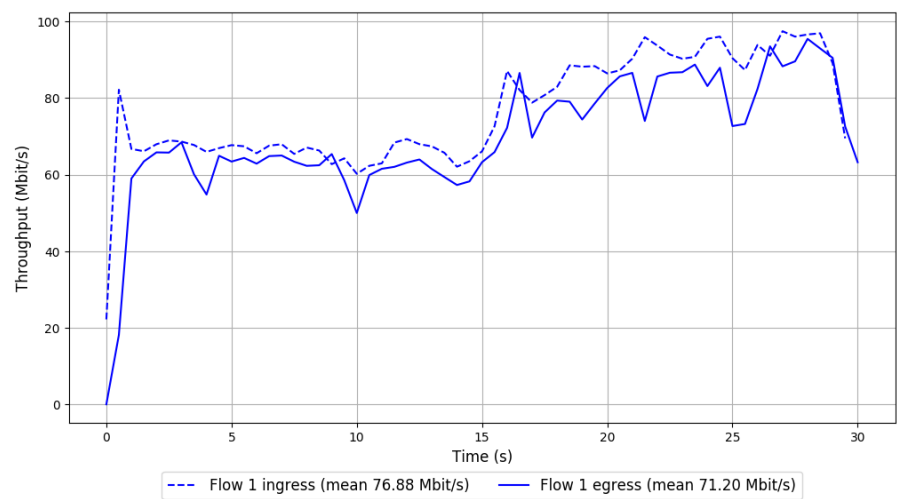
Run 7: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 76.88 Mbit/s)   Flow 1 egress (mean 71.20 Mbit/s)

Flow 1 (95th percentile 8.34 ms)

```
Run 8: Statistics of PCC-Allegro

Start at: 2018-07-03 12:39:47
End at: 2018-07-03 12:40:17
Local clock offset: -9.088 ms
Remote clock offset: -8.763 ms


# Below is generated by plot.py at 2018-07-03 13:46:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 10.937 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 7.99 Mbit/s
95th percentile per-packet one-way delay: 10.937 ms
Loss rate: 2.01%
```
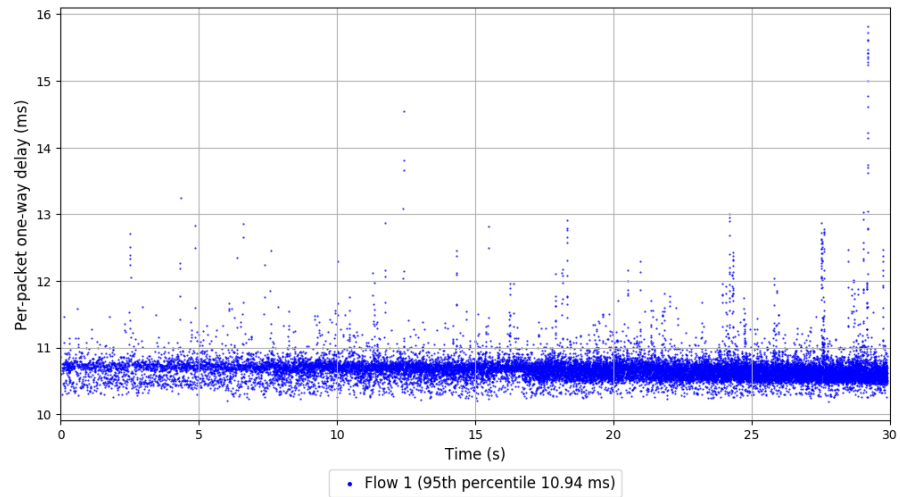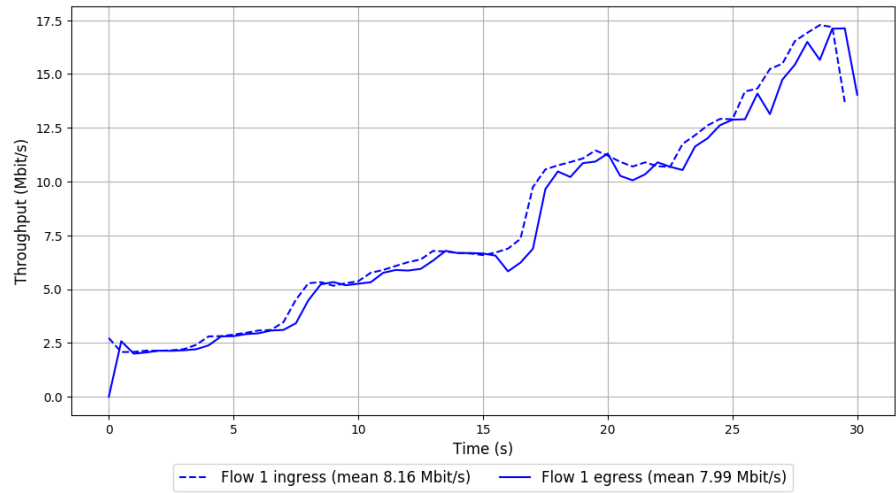
Run 8: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 8.16 Mbit/s)   Flow 1 egress (mean 7.99 Mbit/s)

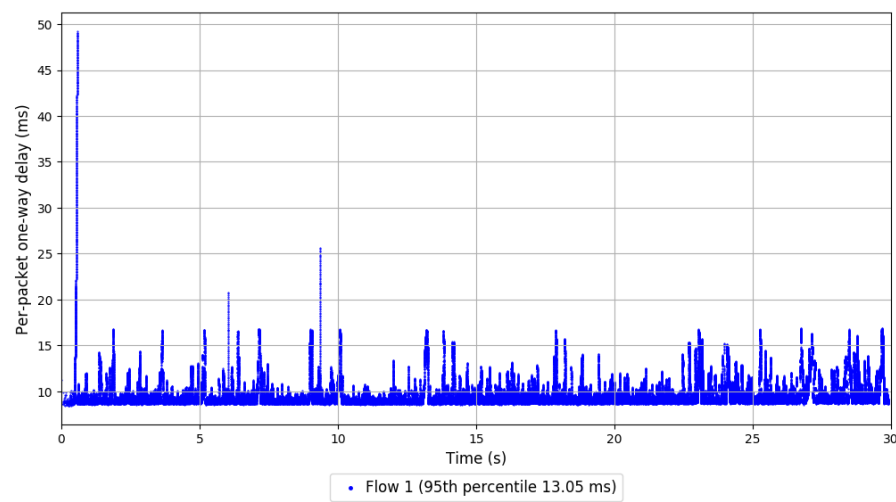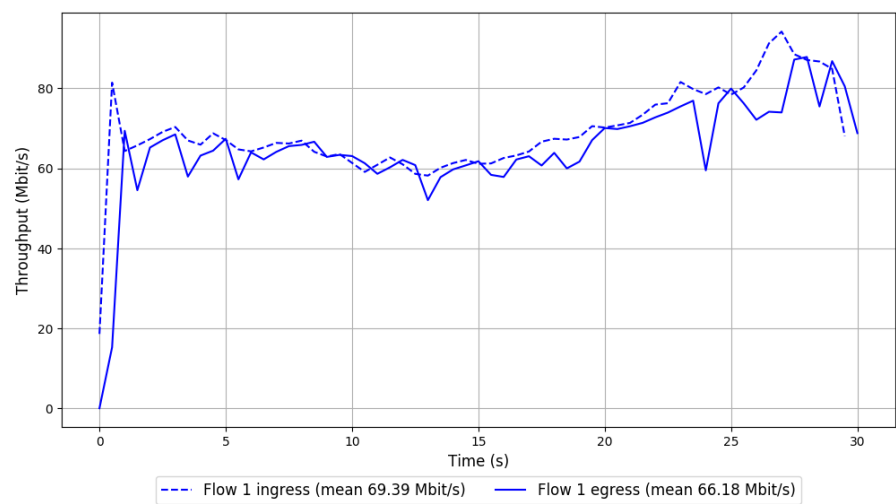Flow 1 (95th percentile 10.94 ms)

159

```
Run 9: Statistics of PCC-Allegro

Start at: 2018-07-03 12:59:01
End at: 2018-07-03 12:59:31
Local clock offset: -7.374 ms
Remote clock offset: -9.352 ms


# Below is generated by plot.py at 2018-07-03 13:46:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.18 Mbit/s
95th percentile per-packet one-way delay: 13.054 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 66.18 Mbit/s
95th percentile per-packet one-way delay: 13.054 ms
Loss rate: 4.63%
```

Run 9: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 69.39 Mbit/s)   Flow 1 egress (mean 66.18 Mbit/s)

Flow 1 (95th percentile 13.05 ms)

```
Run 10: Statistics of PCC-Allegro

Start at: 2018-07-03 13:18:24
End at: 2018-07-03 13:18:54
Local clock offset: 2.639 ms
Remote clock offset: -7.414 ms


# Below is generated by plot.py at 2018-07-03 13:46:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 11.223 ms
Loss rate: 4.53%
-- Flow 1:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 11.223 ms
Loss rate: 4.53%
```
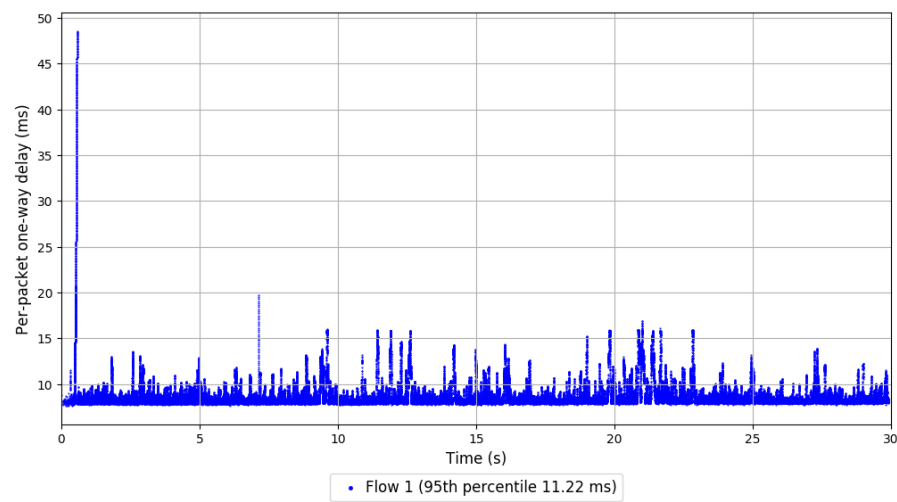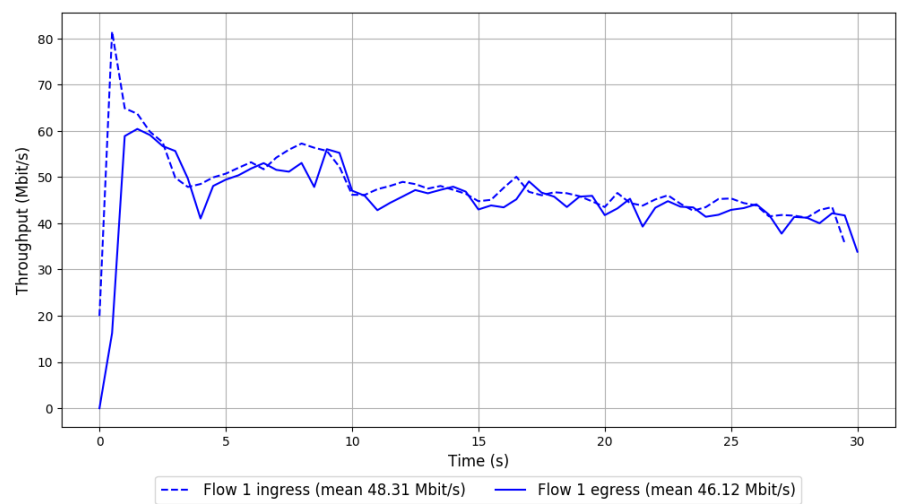
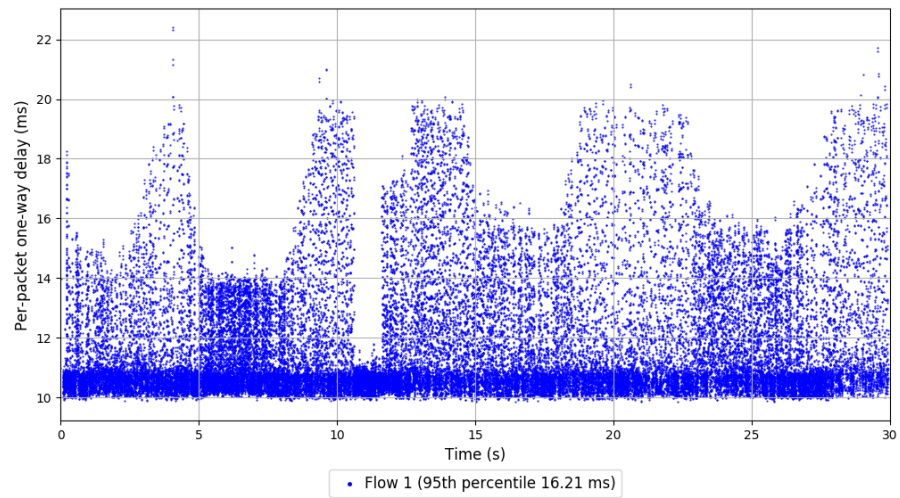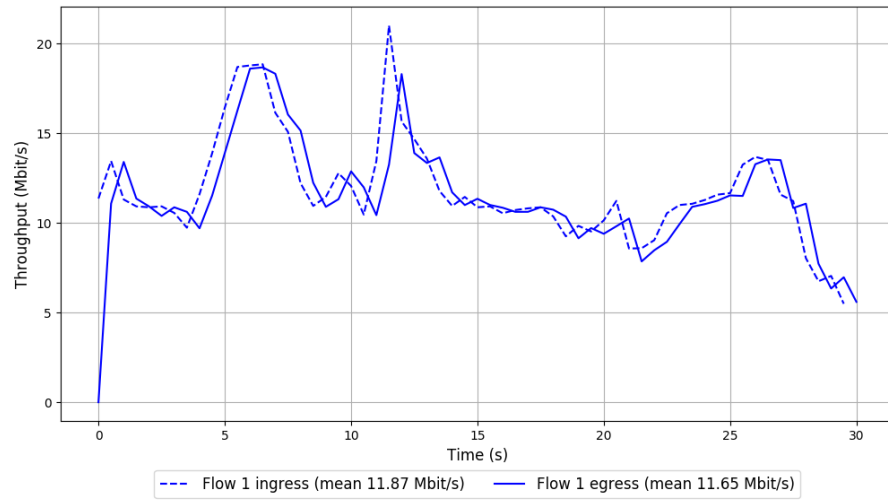## Run 10: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-03 10:34:23
End at: 2018-07-03 10:34:53
Local clock offset: -4.707 ms
Remote clock offset: 1.365 ms


# Below is generated by plot.py at 2018-07-03 13:46:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 16.211 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 16.211 ms
Loss rate: 1.88%
```

Run 1: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 11.87 Mbit/s) --- Flow 1 egress (mean 11.65 Mbit/s)

Flow 1 (95th percentile 16.21 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-03 10:53:56
End at: 2018-07-03 10:54:26
Local clock offset: -2.224 ms
Remote clock offset: 4.903 ms

# Below is generated by plot.py at 2018-07-03 13:47:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.11 Mbit/s
95th percentile per-packet one-way delay: 13.982 ms
Loss rate: 7.41%
-- Flow 1:
Average throughput: 63.11 Mbit/s
95th percentile per-packet one-way delay: 13.982 ms
Loss rate: 7.41%
```
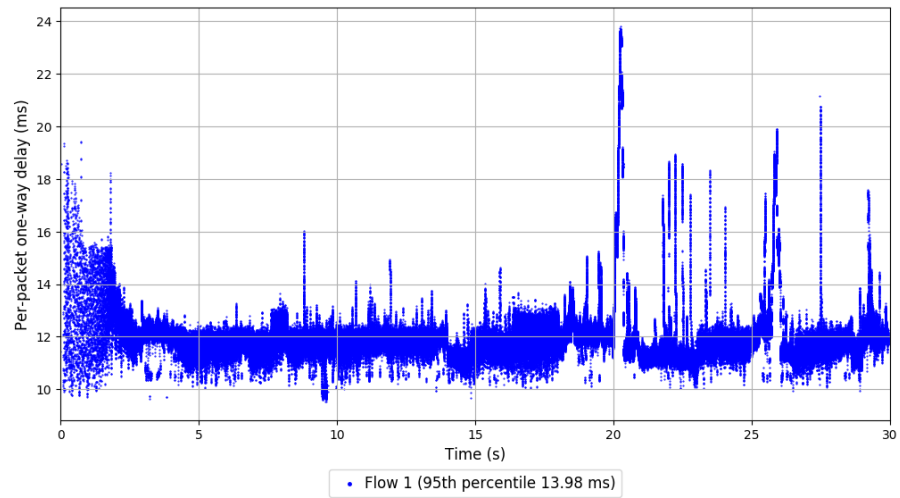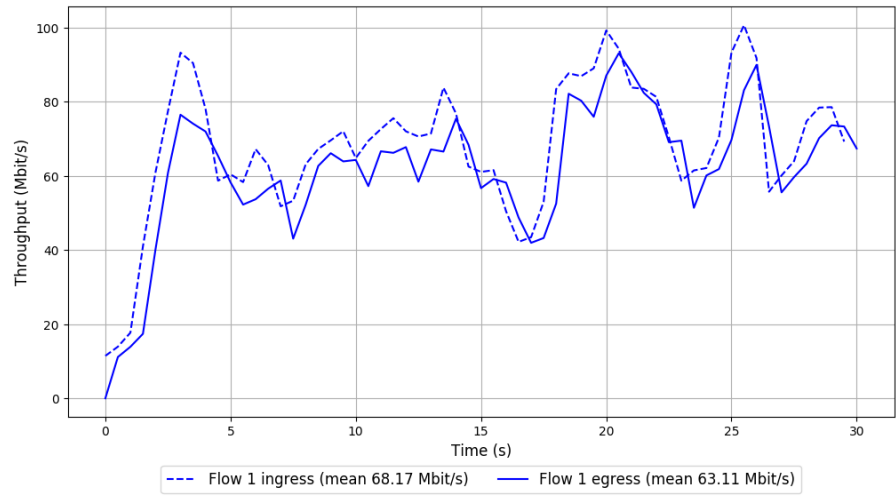
Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 68.17 Mbit/s)   Flow 1 egress (mean 63.11 Mbit/s)

Flow 1 (95th percentile 13.98 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2018-07-03 11:13:21
End at: 2018-07-03 11:13:51
Local clock offset: -7.634 ms
Remote clock offset: 3.837 ms

# Below is generated by plot.py at 2018-07-03 13:47:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 15.373 ms
Loss rate: 6.17%
-- Flow 1:
Average throughput: 42.55 Mbit/s
95th percentile per-packet one-way delay: 15.373 ms
Loss rate: 6.17%
```
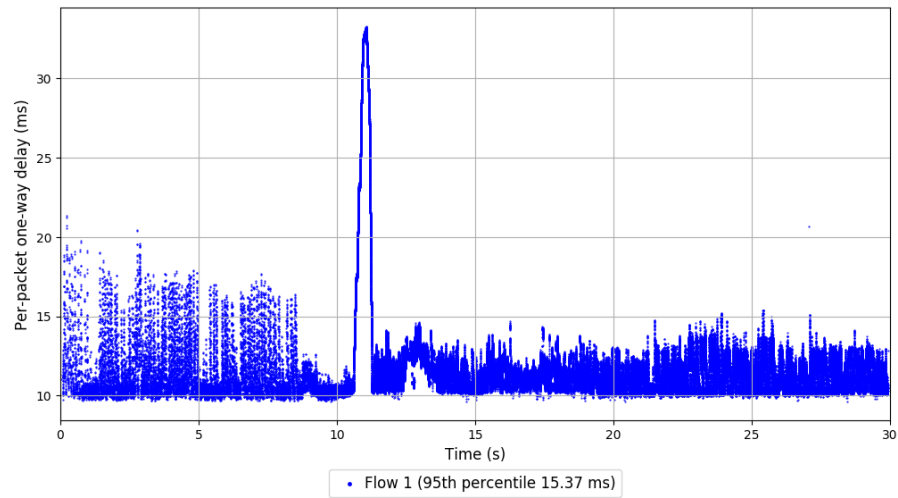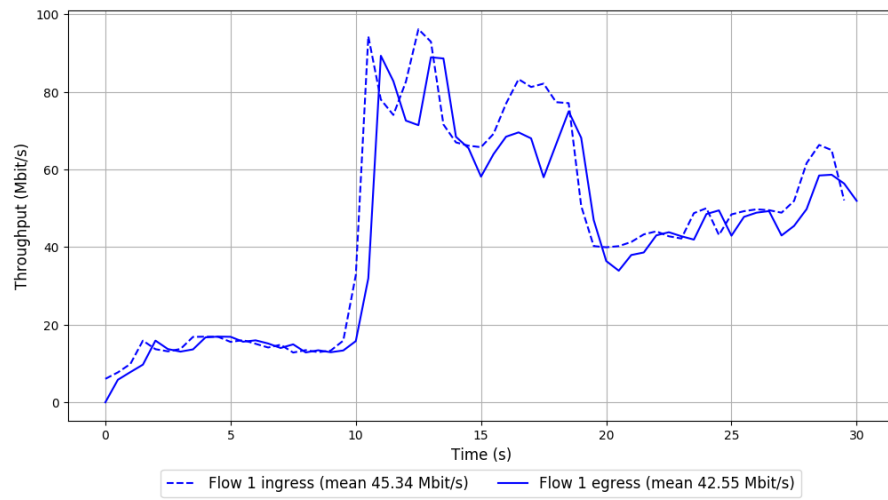
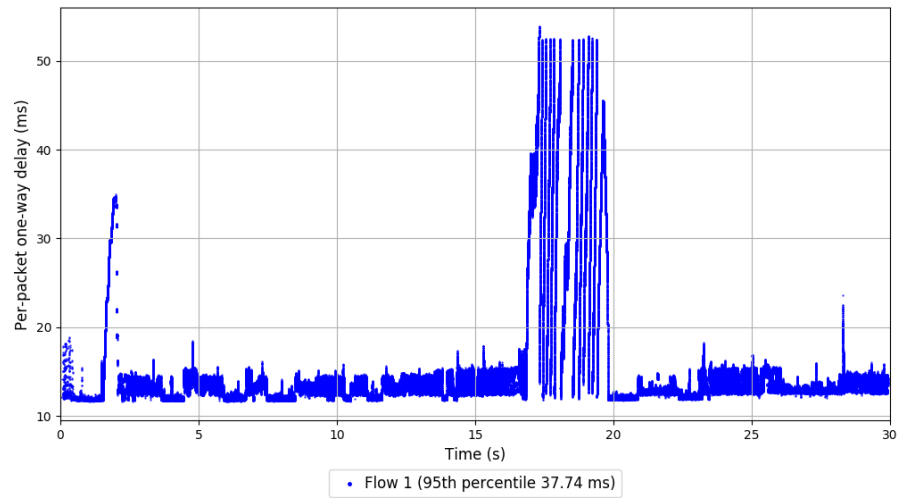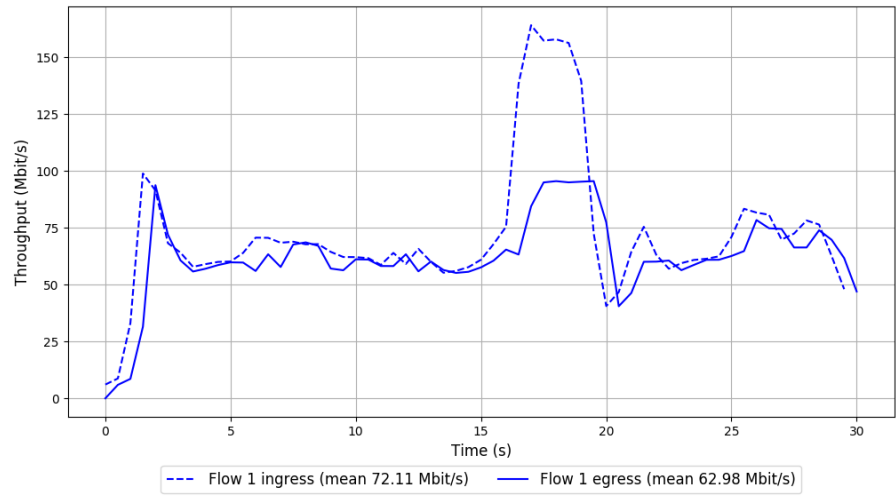Run 3: Report of PCC-Expr — Data Link

```
Run 4: Statistics of PCC-Expr

Start at: 2018-07-03 11:32:52
End at: 2018-07-03 11:33:22
Local clock offset: -10.824 ms
Remote clock offset: 4.487 ms


# Below is generated by plot.py at 2018-07-03 13:47:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 37.740 ms
Loss rate: 12.66%
-- Flow 1:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 37.740 ms
Loss rate: 12.66%
```

Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 72.11 Mbit/s) ------ Flow 1 egress (mean 62.98 Mbit/s) ——

• Flow 1 (95th percentile 37.74 ms)

```
Run 5: Statistics of PCC-Expr

Start at: 2018-07-03 11:52:13
End at: 2018-07-03 11:52:43
Local clock offset: -2.338 ms
Remote clock offset: 3.447 ms


# Below is generated by plot.py at 2018-07-03 13:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.56 Mbit/s
95th percentile per-packet one-way delay: 15.383 ms
Loss rate: 6.01%
-- Flow 1:
Average throughput: 78.56 Mbit/s
95th percentile per-packet one-way delay: 15.383 ms
Loss rate: 6.01%
```
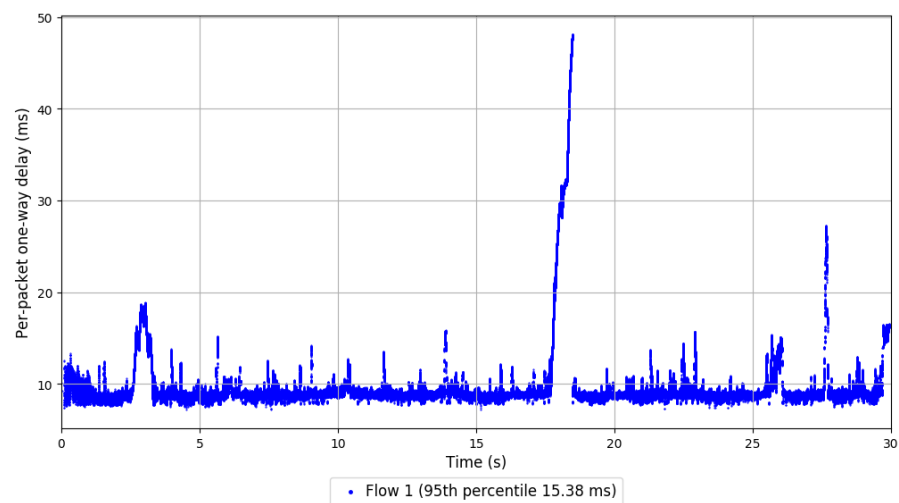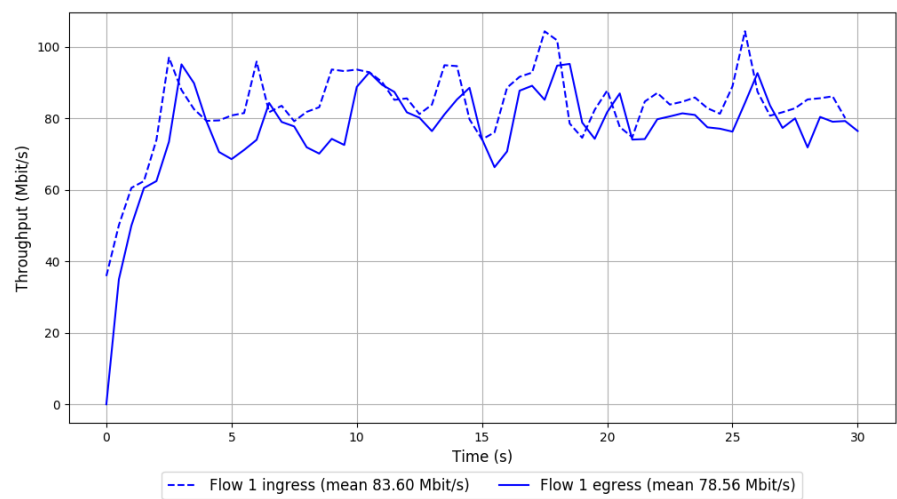
Run 5: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 83.60 Mbit/s)   Flow 1 egress (mean 78.56 Mbit/s)
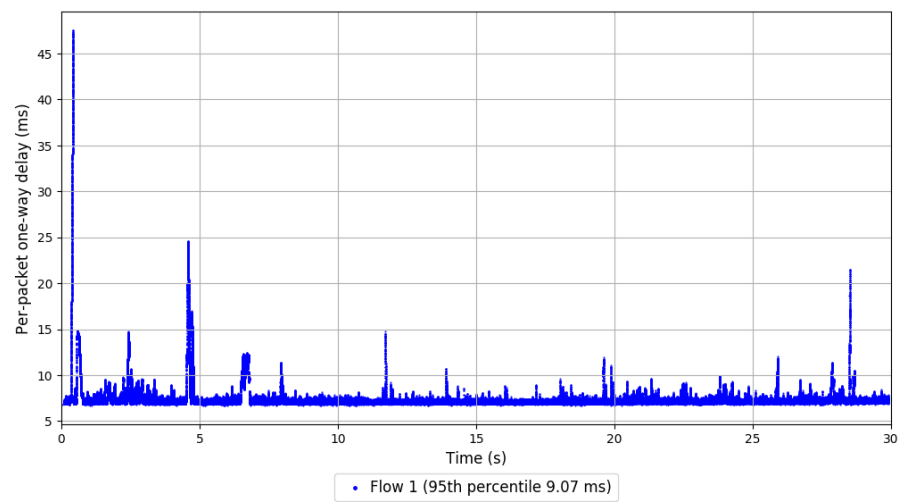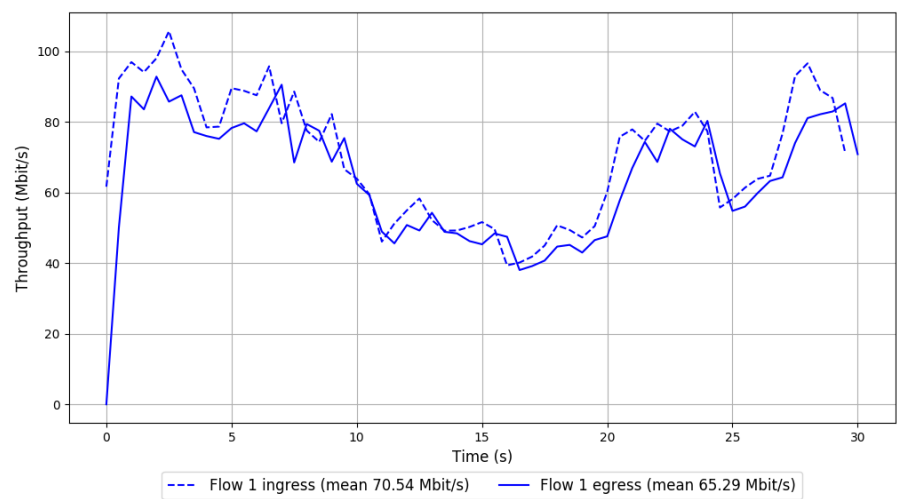

Flow 1 (95th percentile 15.38 ms)

```
Run 6: Statistics of PCC-Expr

Start at: 2018-07-03 12:11:25
End at: 2018-07-03 12:11:55
Local clock offset: -3.322 ms
Remote clock offset: -6.738 ms


# Below is generated by plot.py at 2018-07-03 13:47:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.29 Mbit/s
95th percentile per-packet one-way delay: 9.069 ms
Loss rate: 7.44%
-- Flow 1:
Average throughput: 65.29 Mbit/s
95th percentile per-packet one-way delay: 9.069 ms
Loss rate: 7.44%
```

Run 6: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 70.54 Mbit/s)   Flow 1 egress (mean 65.29 Mbit/s)
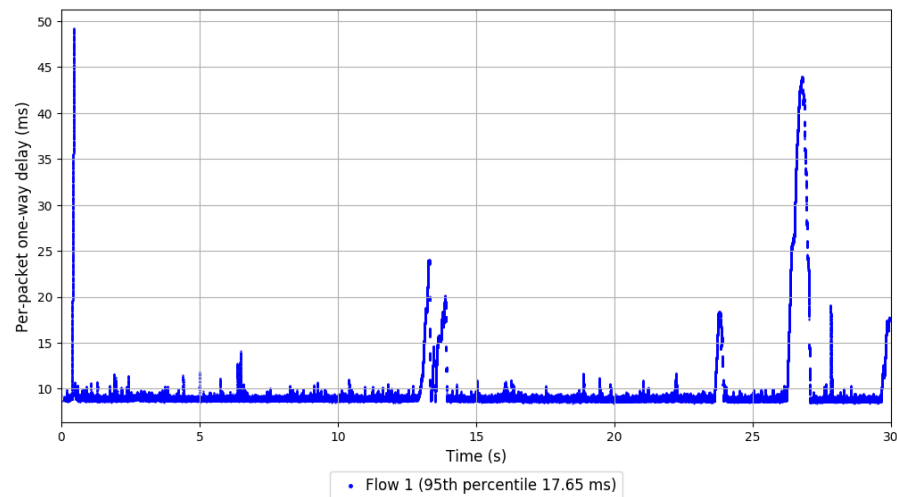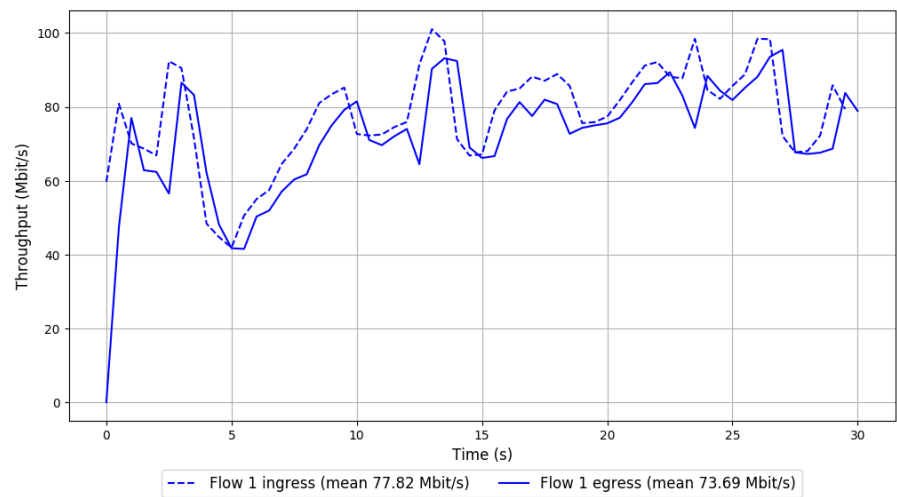

Flow 1 (95th percentile 9.07 ms)

```
Run 7: Statistics of PCC-Expr

Start at: 2018-07-03 12:30:44
End at: 2018-07-03 12:31:14
Local clock offset: -6.789 ms
Remote clock offset: -10.011 ms


# Below is generated by plot.py at 2018-07-03 13:47:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.69 Mbit/s
95th percentile per-packet one-way delay: 17.654 ms
Loss rate: 5.28%
-- Flow 1:
Average throughput: 73.69 Mbit/s
95th percentile per-packet one-way delay: 17.654 ms
Loss rate: 5.28%
```

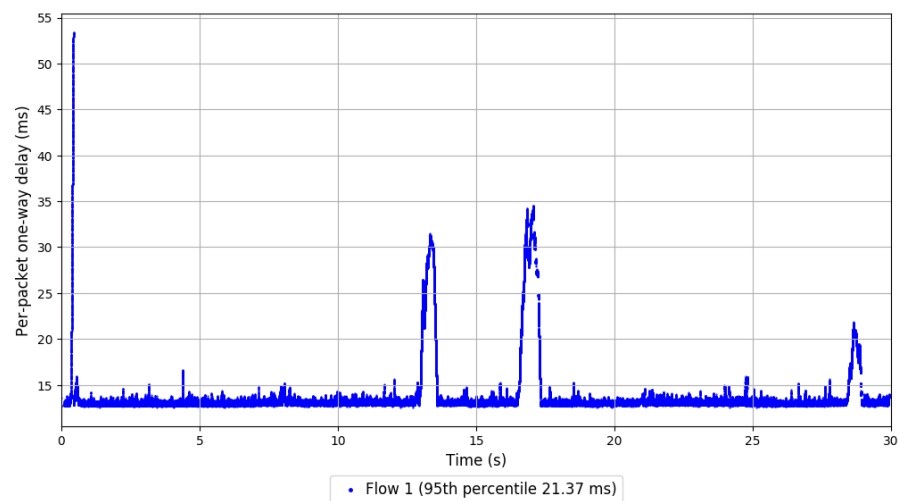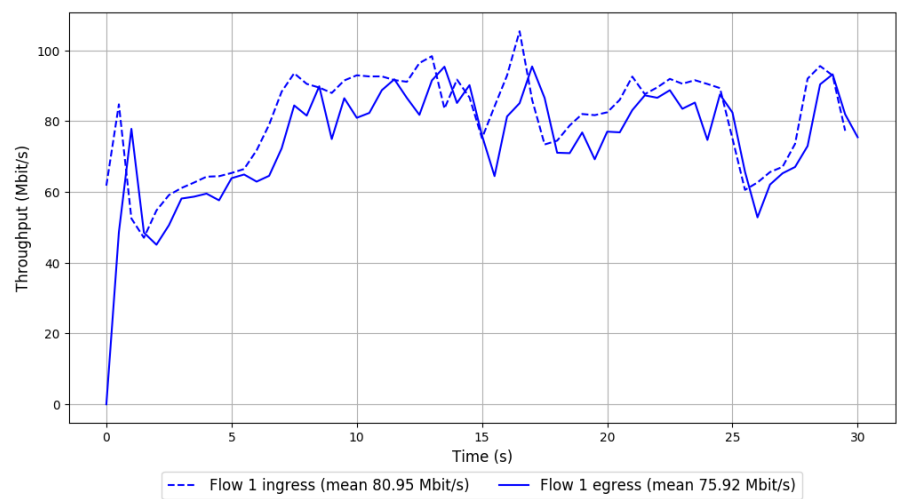Run 7: Report of PCC-Expr — Data Link

```
Run 8: Statistics of PCC-Expr

Start at: 2018-07-03 12:49:59
End at: 2018-07-03 12:50:29
Local clock offset: -10.567 ms
Remote clock offset: -7.954 ms


# Below is generated by plot.py at 2018-07-03 13:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.92 Mbit/s
95th percentile per-packet one-way delay: 21.367 ms
Loss rate: 6.22%
-- Flow 1:
Average throughput: 75.92 Mbit/s
95th percentile per-packet one-way delay: 21.367 ms
Loss rate: 6.22%
```

Run 8: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 80.95 Mbit/s)   Flow 1 egress (mean 75.92 Mbit/s)
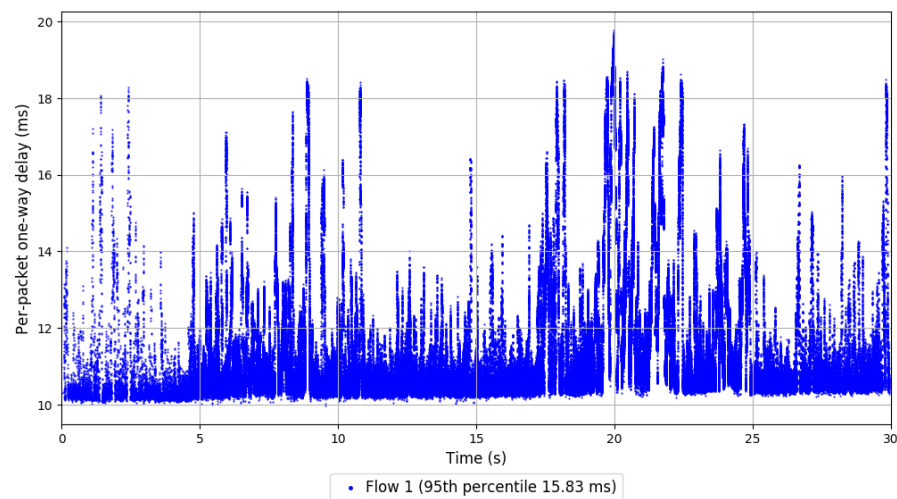
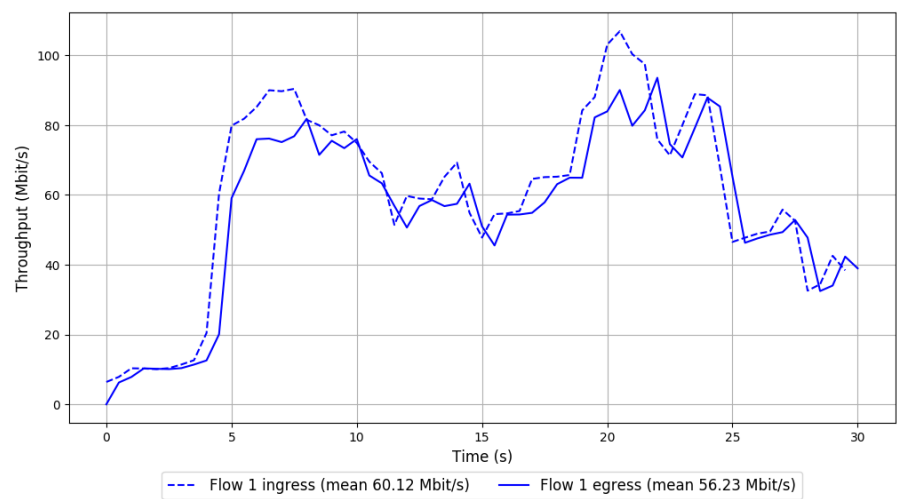

• Flow 1 (95th percentile 21.37 ms)

```
Run 9: Statistics of PCC-Expr

Start at: 2018-07-03 13:09:22
End at: 2018-07-03 13:09:52
Local clock offset: -4.251 ms
Remote clock offset: -8.753 ms


# Below is generated by plot.py at 2018-07-03 13:48:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.23 Mbit/s
95th percentile per-packet one-way delay: 15.831 ms
Loss rate: 6.47%
-- Flow 1:
Average throughput: 56.23 Mbit/s
95th percentile per-packet one-way delay: 15.831 ms
Loss rate: 6.47%
```

Run 9: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 60.12 Mbit/s)   Flow 1 egress (mean 56.23 Mbit/s)
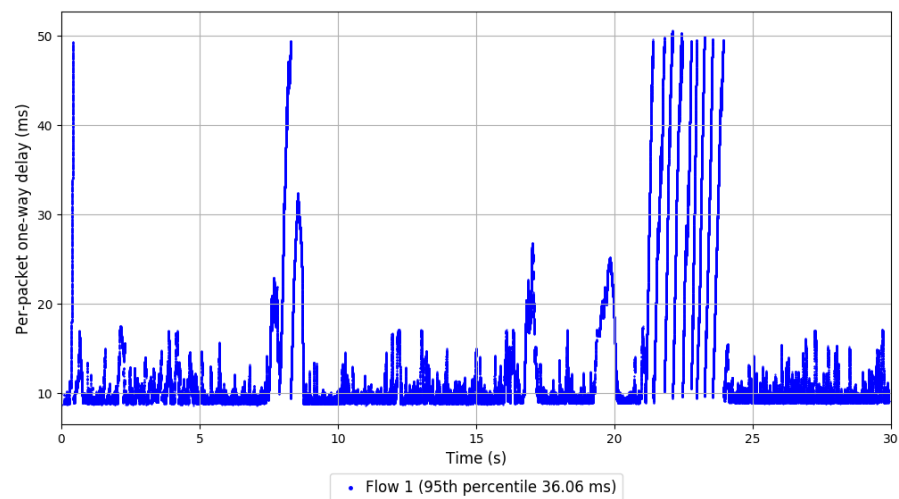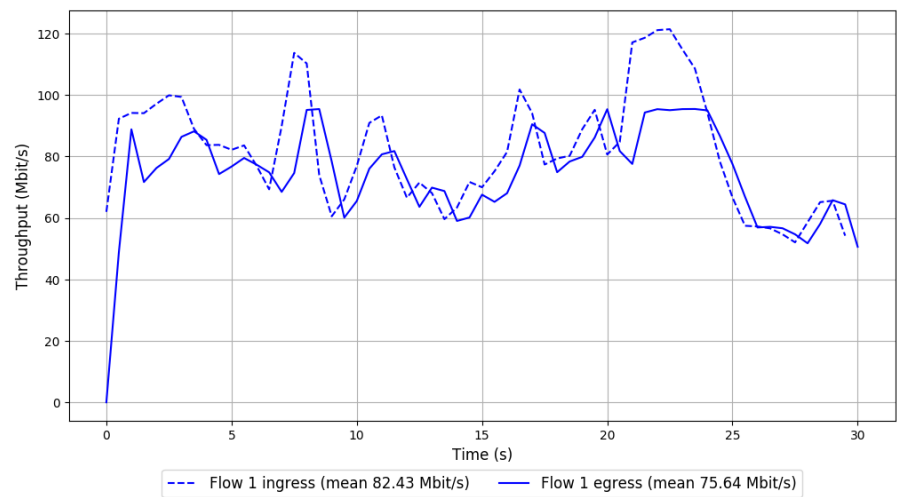

Flow 1 (95th percentile 15.83 ms)

```
Run 10: Statistics of PCC-Expr

Start at: 2018-07-03 13:28:41
End at: 2018-07-03 13:29:11
Local clock offset: 3.543 ms
Remote clock offset: -8.092 ms

# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.64 Mbit/s
95th percentile per-packet one-way delay: 36.062 ms
Loss rate: 8.24%
-- Flow 1:
Average throughput: 75.64 Mbit/s
95th percentile per-packet one-way delay: 36.062 ms
Loss rate: 8.24%
```

Run 10: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 82.43 Mbit/s)   Flow 1 egress (mean 75.64 Mbit/s)

• Flow 1 (95th percentile 36.06 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-07-03 10:30:57
End at: 2018-07-03 10:31:27
Local clock offset: -2.196 ms
Remote clock offset: 0.997 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.78 Mbit/s
95th percentile per-packet one-way delay: 35.253 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 46.78 Mbit/s
95th percentile per-packet one-way delay: 35.253 ms
Loss rate: 0.67%
```
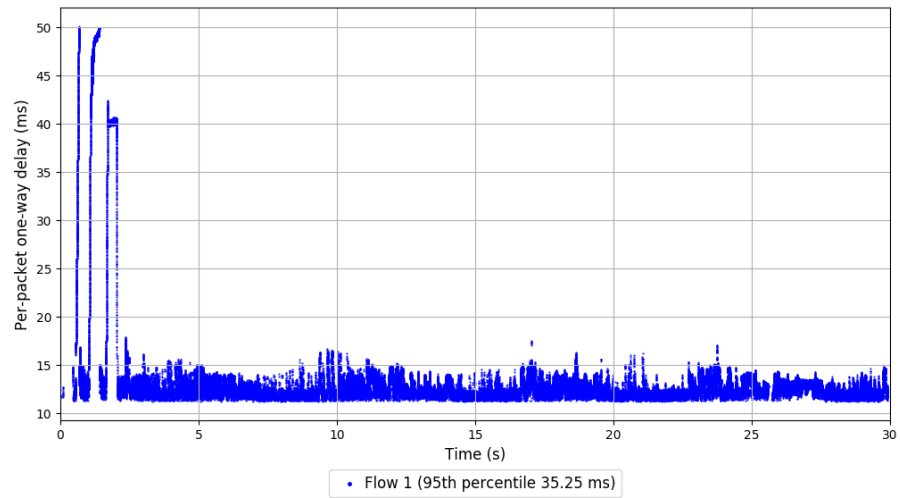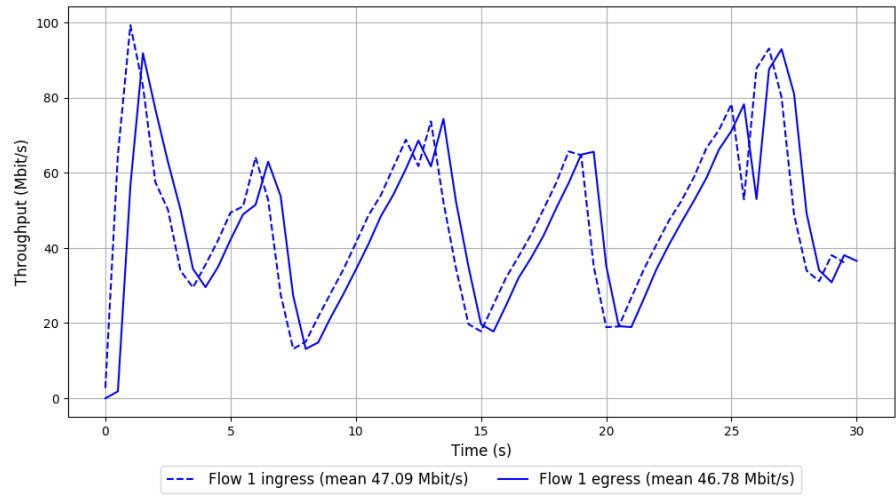
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-07-03 10:50:39
End at: 2018-07-03 10:51:09
Local clock offset: -7.615 ms
Remote clock offset: 6.372 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 22.691 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 21.30 Mbit/s
95th percentile per-packet one-way delay: 22.691 ms
Loss rate: 1.27%
```
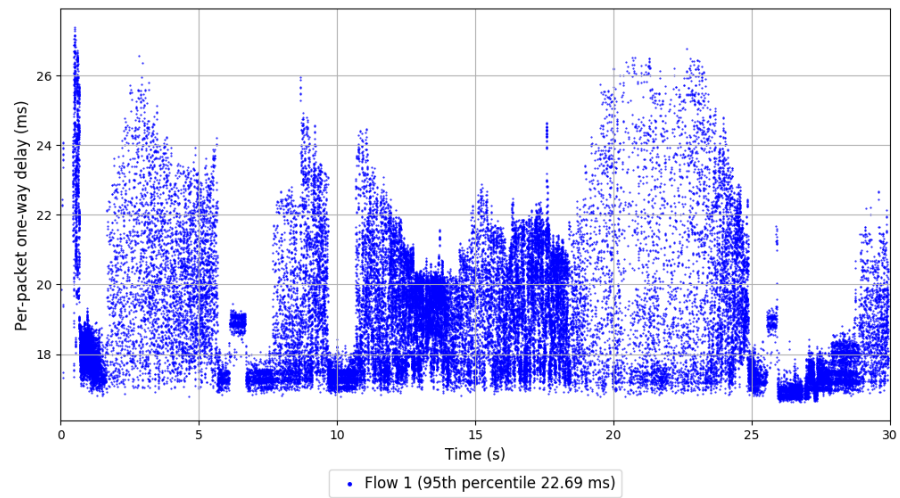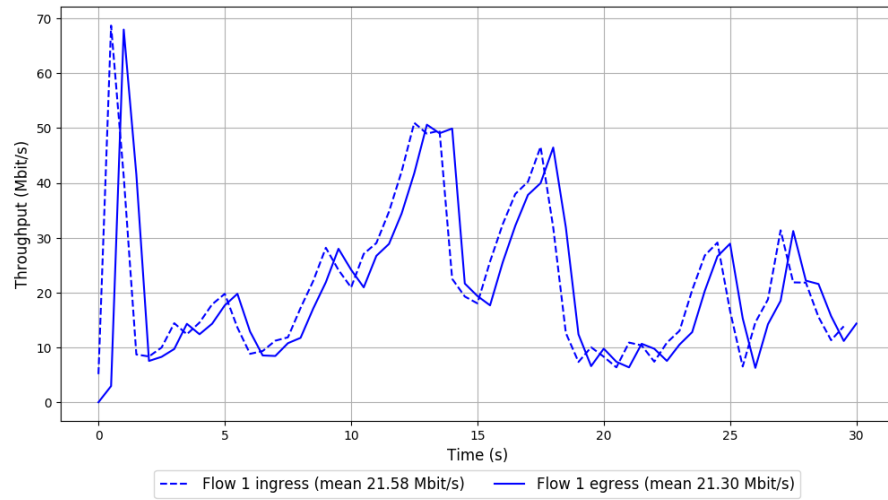
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 21.58 Mbit/s) --- Flow 1 egress (mean 21.30 Mbit/s) ——

Flow 1 (95th percentile 22.69 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-07-03 11:10:01
End at: 2018-07-03 11:10:31
Local clock offset: -6.708 ms
Remote clock offset: 4.029 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 16.989 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 15.39 Mbit/s
95th percentile per-packet one-way delay: 16.989 ms
Loss rate: 0.74%
```
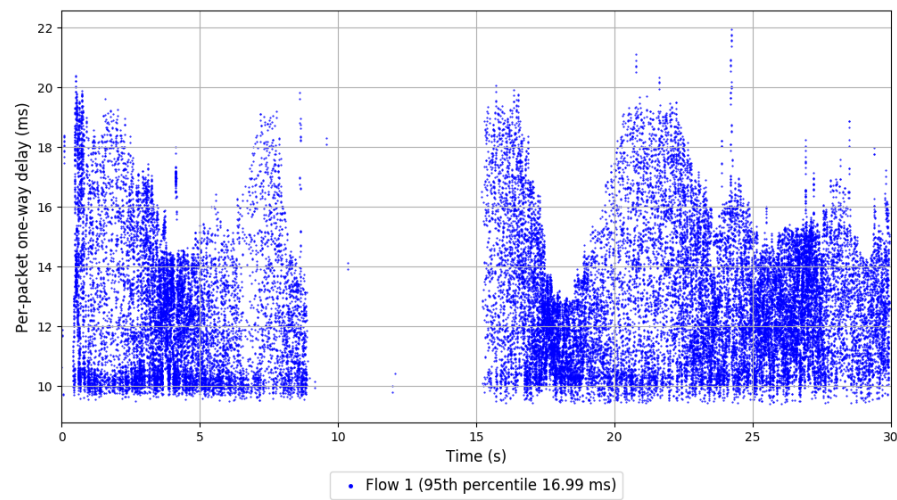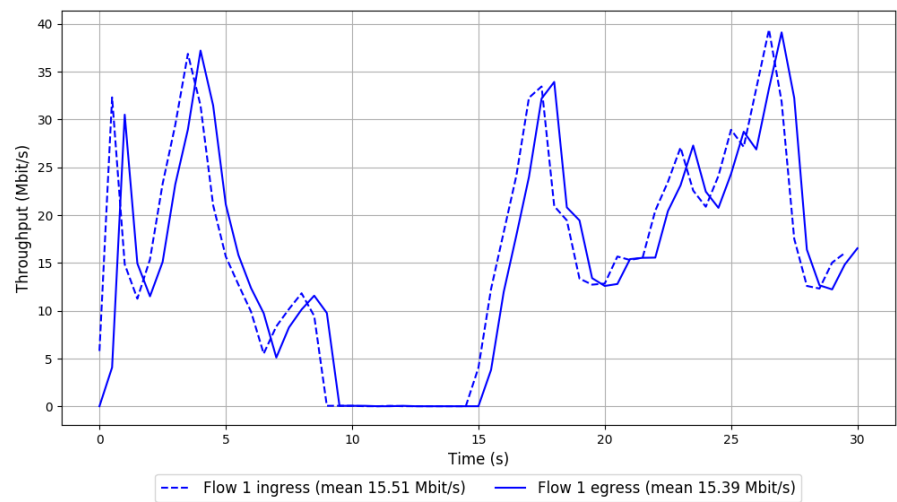
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-07-03 11:29:26
End at: 2018-07-03 11:29:56
Local clock offset: -8.782 ms
Remote clock offset: 5.231 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.02 Mbit/s
95th percentile per-packet one-way delay: 28.095 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 47.02 Mbit/s
95th percentile per-packet one-way delay: 28.095 ms
Loss rate: 0.68%
```
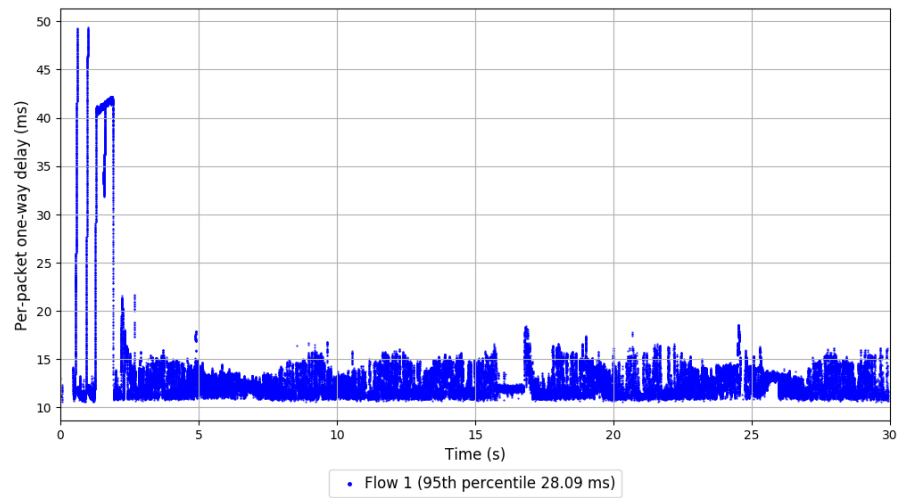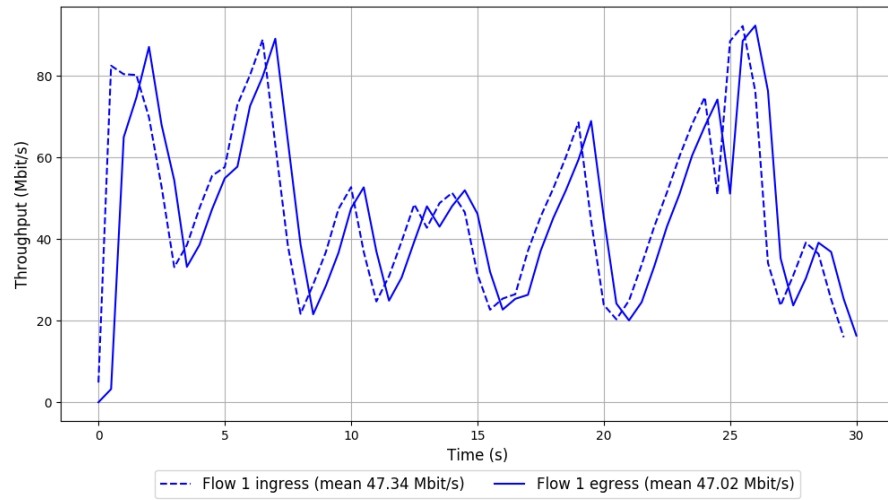
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 47.34 Mbit/s) — — — Flow 1 egress (mean 47.02 Mbit/s)

Flow 1 (95th percentile 28.09 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-07-03 11:48:51
End at: 2018-07-03 11:49:21
Local clock offset: -4.408 ms
Remote clock offset: 4.614 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.43 Mbit/s
95th percentile per-packet one-way delay: 21.235 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 41.43 Mbit/s
95th percentile per-packet one-way delay: 21.235 ms
Loss rate: 0.11%
```
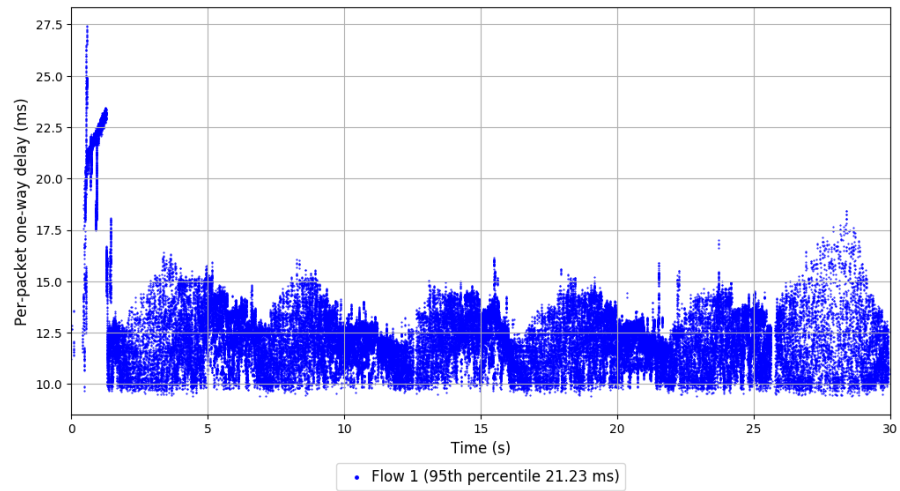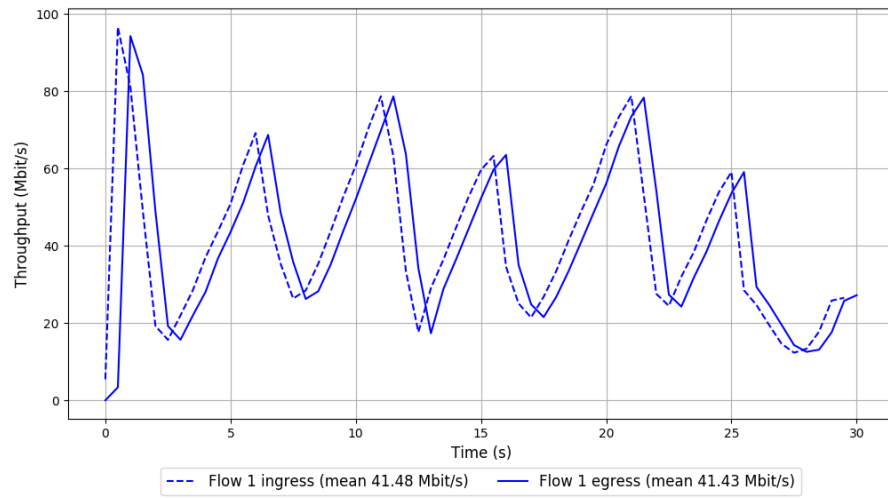
Run 5: Report of QUIC Cubic — Data Link

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-07-03 12:08:02
End at: 2018-07-03 12:08:32
Local clock offset: -3.322 ms
Remote clock offset: -5.882 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 10.195 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 10.195 ms
Loss rate: 1.99%
```
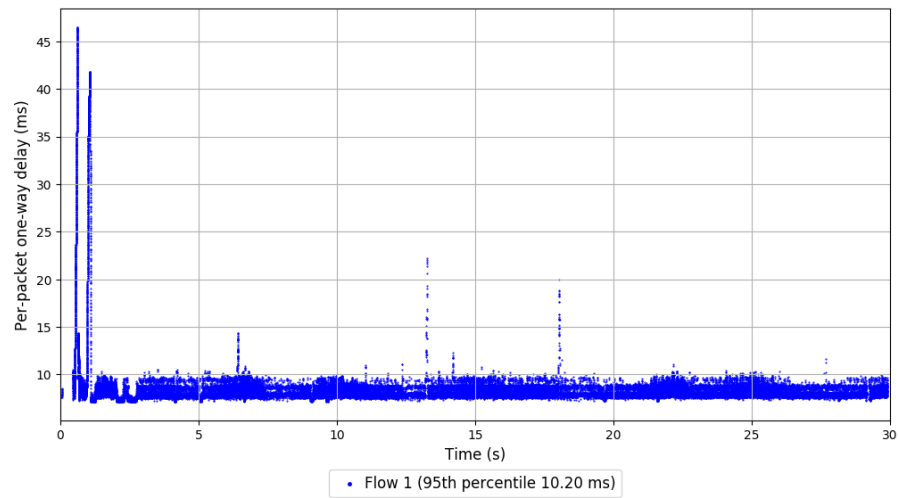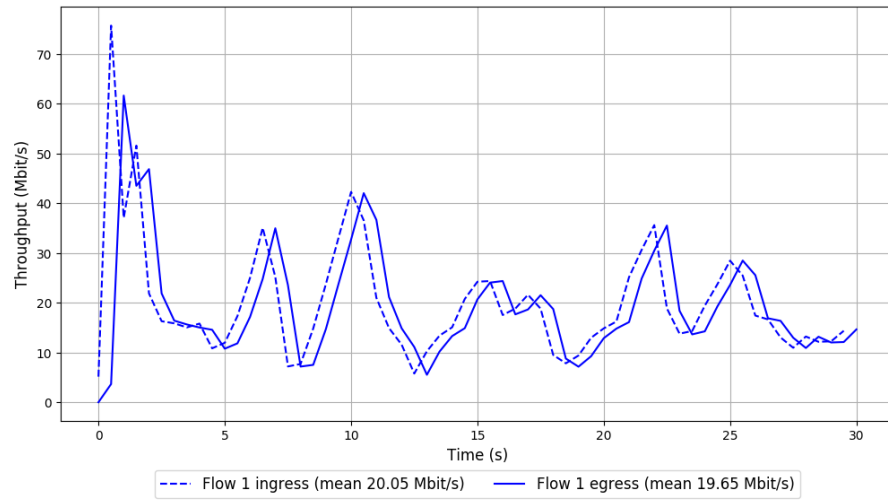
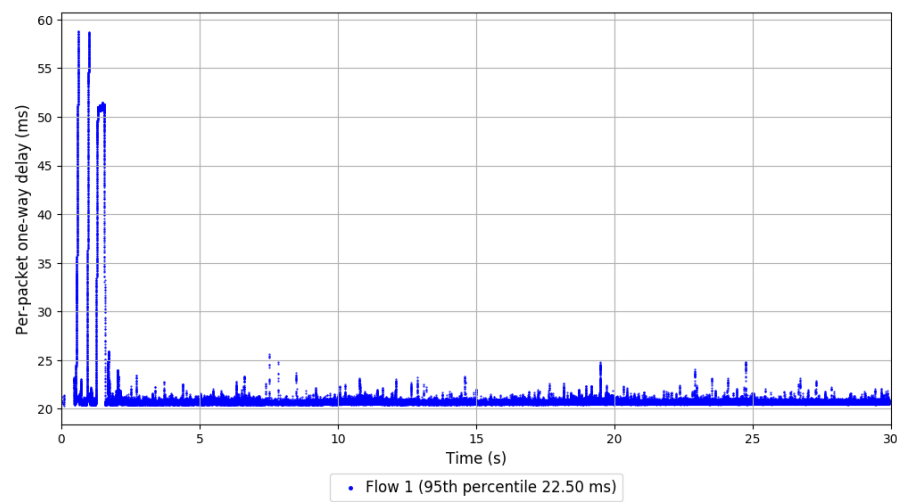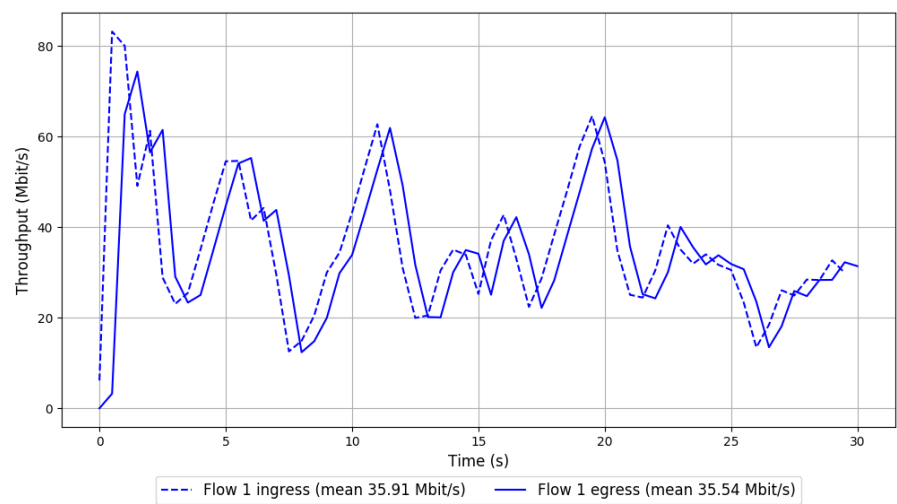Run 6: Report of QUIC Cubic — Data Link

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-07-03 12:27:21
End at: 2018-07-03 12:27:51
Local clock offset: -18.209 ms
Remote clock offset: -10.563 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 22.503 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 35.54 Mbit/s
95th percentile per-packet one-way delay: 22.503 ms
Loss rate: 1.03%
```

Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 35.91 Mbit/s) ----   Flow 1 egress (mean 35.54 Mbit/s) ——

• Flow 1 (95th percentile 22.50 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-07-03 12:46:36
End at: 2018-07-03 12:47:06
Local clock offset: -5.314 ms
Remote clock offset: -8.732 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 7.742 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 7.742 ms
Loss rate: 1.05%
```
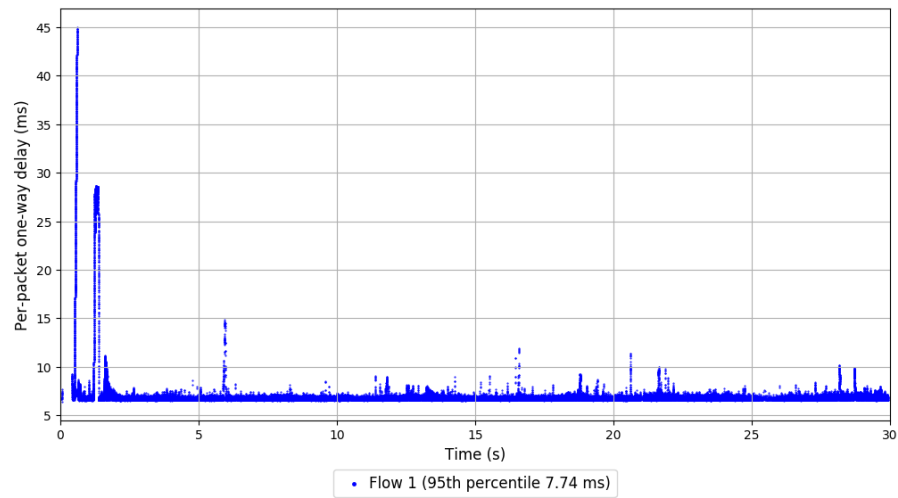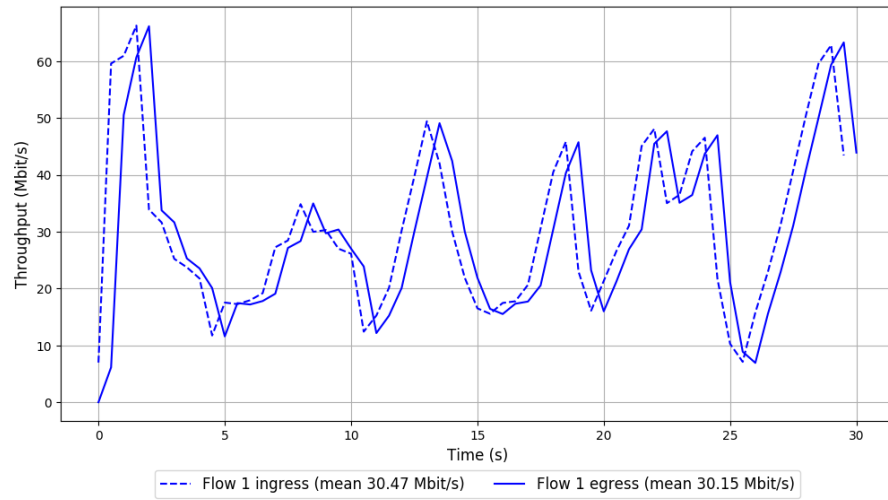
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 30.47 Mbit/s) --- Flow 1 egress (mean 30.15 Mbit/s)

Flow 1 (95th percentile 7.74 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-07-03 13:05:59
End at: 2018-07-03 13:06:29
Local clock offset: -3.166 ms
Remote clock offset: -9.115 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 9.818 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 11.35 Mbit/s
95th percentile per-packet one-way delay: 9.818 ms
Loss rate: 2.71%
```
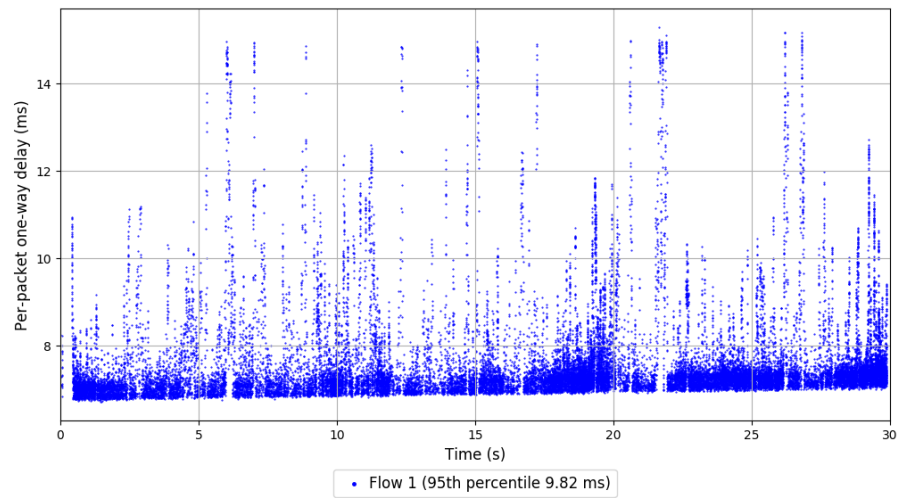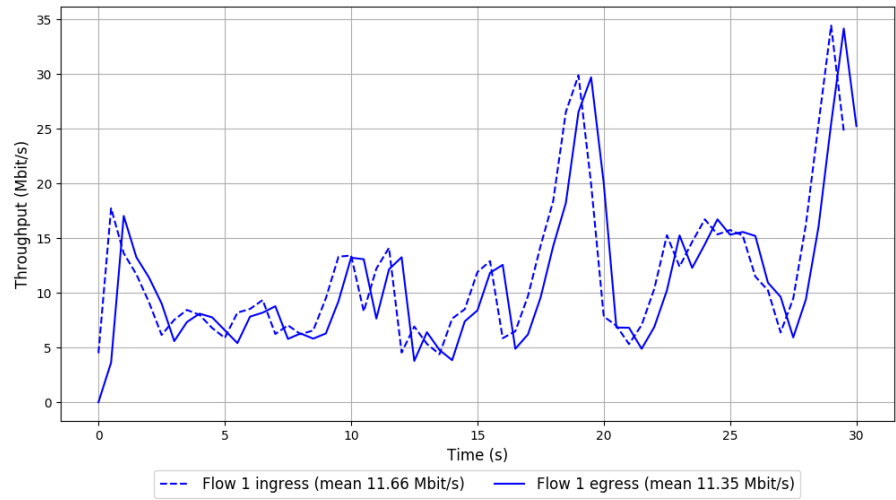
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 11.66 Mbit/s) — Flow 1 egress (mean 11.35 Mbit/s)

Flow 1 (95th percentile 9.82 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-07-03 13:25:19
End at: 2018-07-03 13:25:49
Local clock offset: 1.59 ms
Remote clock offset: -7.434 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 14.252 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 21.08 Mbit/s
95th percentile per-packet one-way delay: 14.252 ms
Loss rate: 1.99%
```
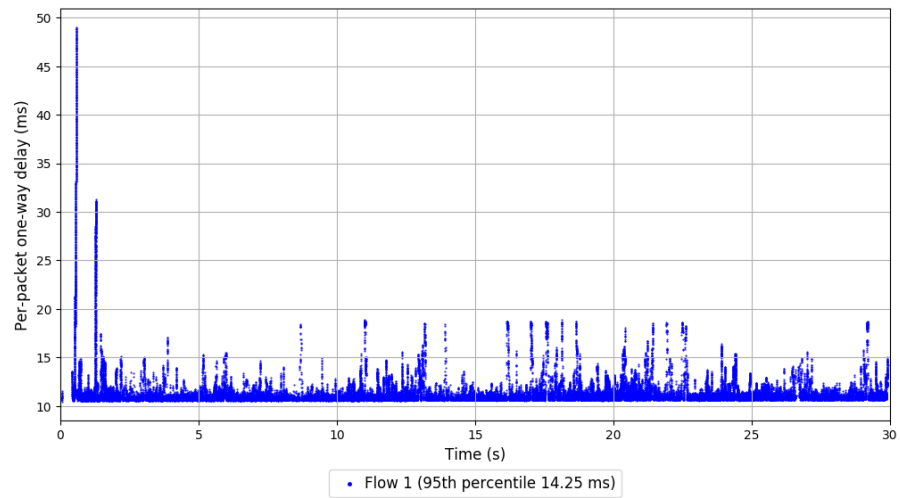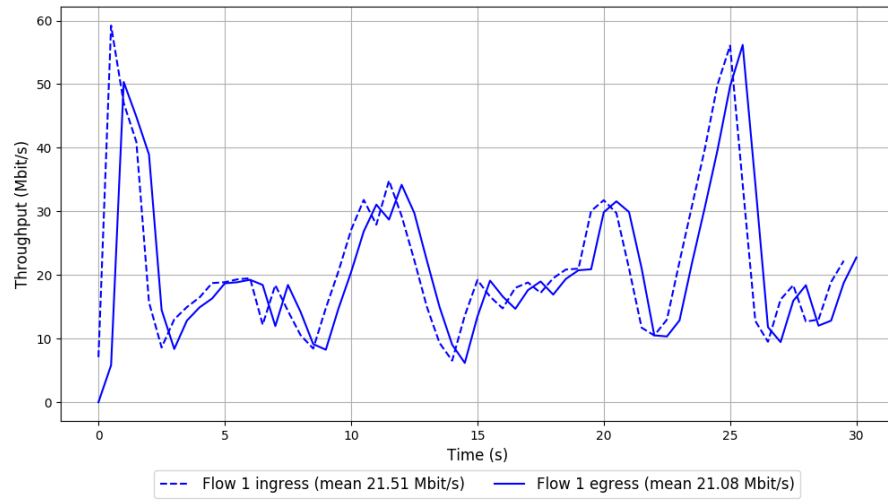
Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 21.51 Mbit/s)   Flow 1 egress (mean 21.08 Mbit/s)
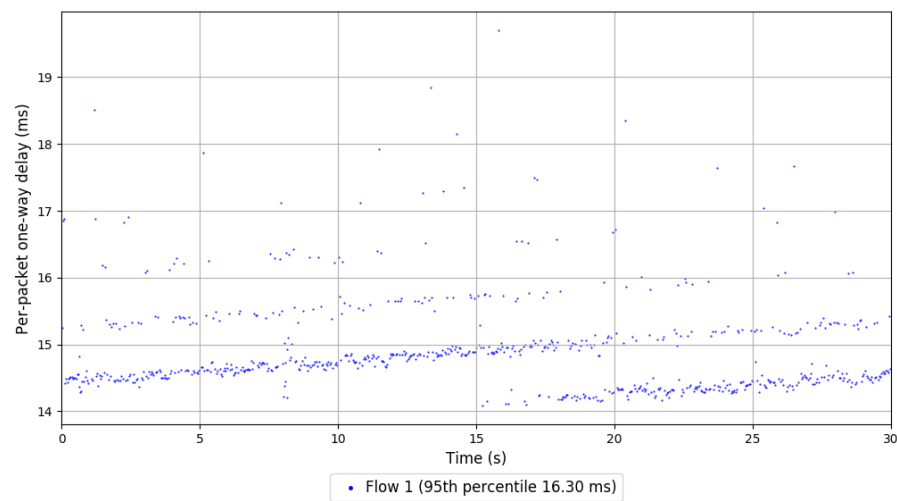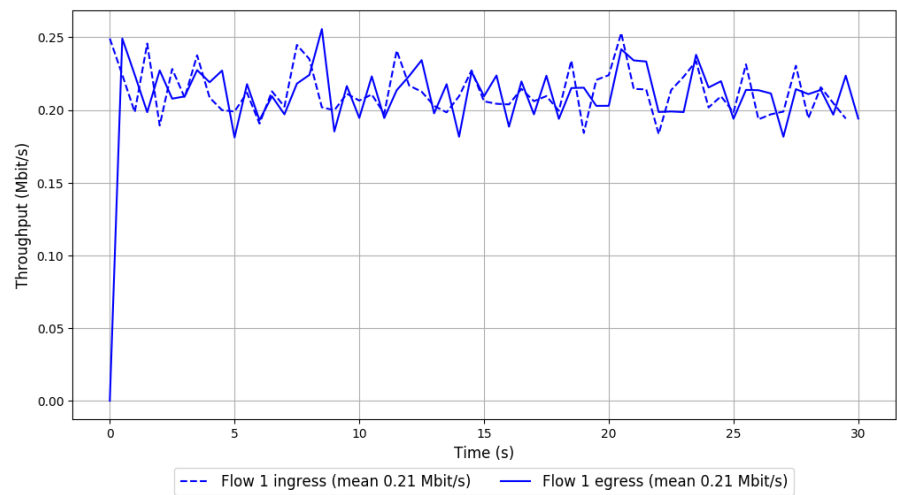

Flow 1 (95th percentile 14.25 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-07-03 10:26:23
End at: 2018-07-03 10:26:53
Local clock offset: -4.855 ms
Remote clock offset: 0.777 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.304 ms
Loss rate: 0.00%
```

Run 1: 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 16.30 ms)

```
Run 2: Statistics of SCReAM

Start at: 2018-07-03 10:45:57
End at: 2018-07-03 10:46:27
Local clock offset: -4.094 ms
Remote clock offset: 1.144 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 15.047 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 15.047 ms
Loss rate: 0.99%
```
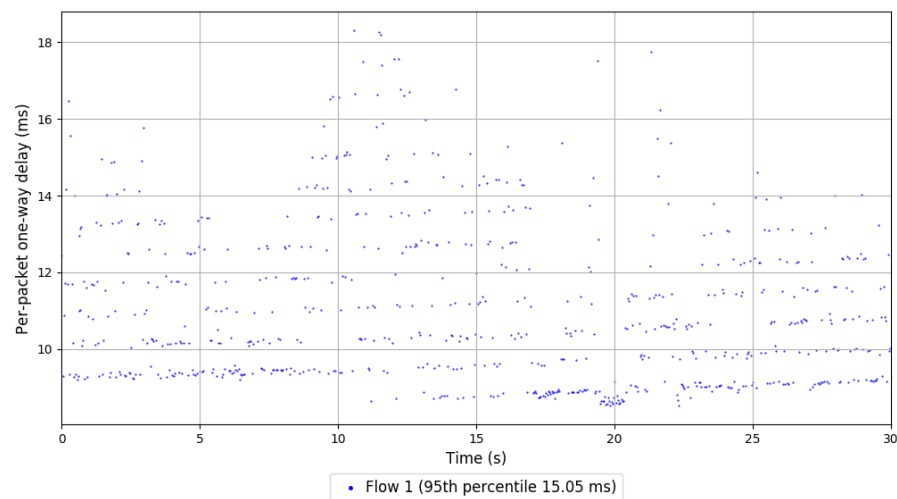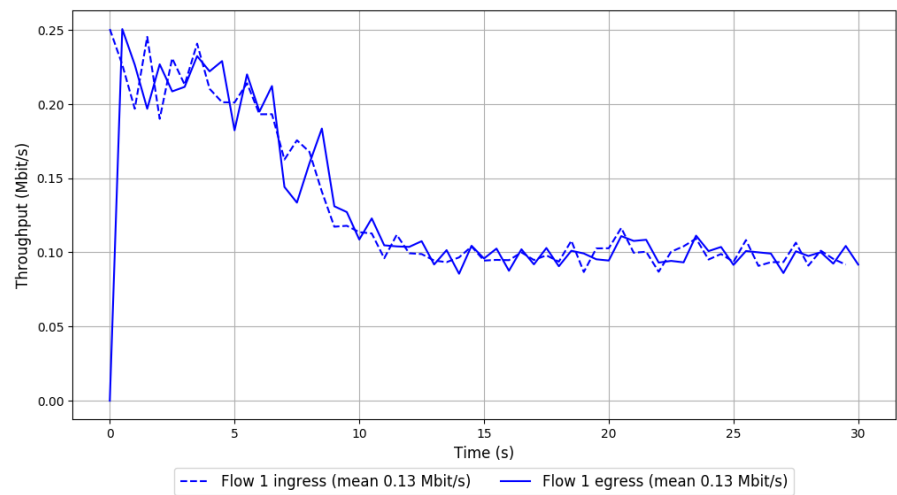
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2018-07-03 11:05:23
End at: 2018-07-03 11:05:54
Local clock offset: -2.712 ms
Remote clock offset: 4.367 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 14.062 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 14.062 ms
Loss rate: 0.18%
```
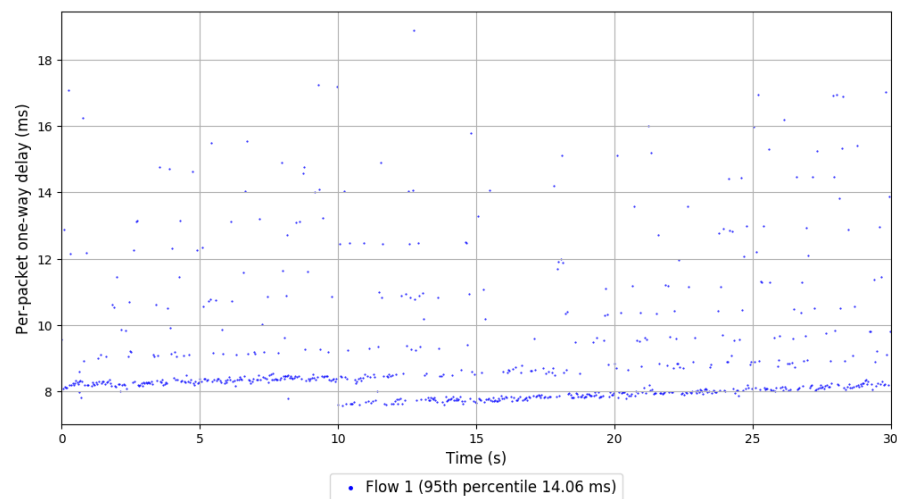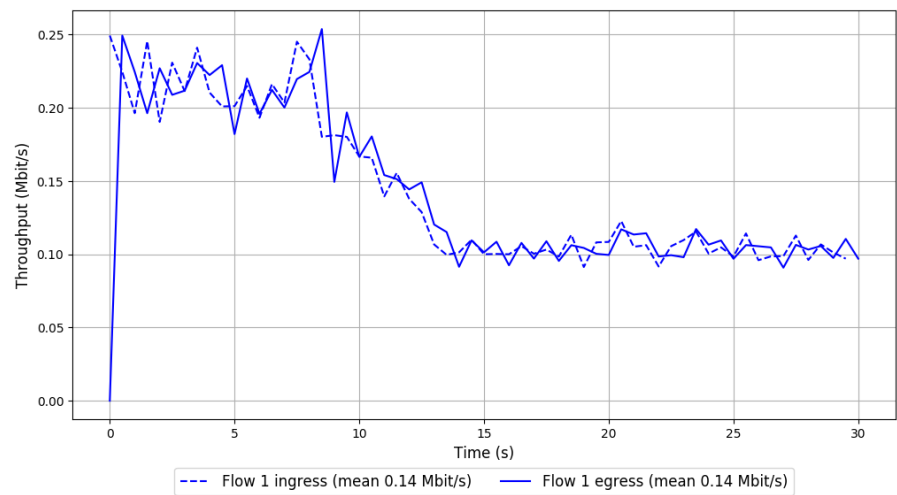
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2018-07-03 11:24:49
End at: 2018-07-03 11:25:19
Local clock offset: -6.298 ms
Remote clock offset: 5.124 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 16.534 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 16.534 ms
Loss rate: 0.25%
```
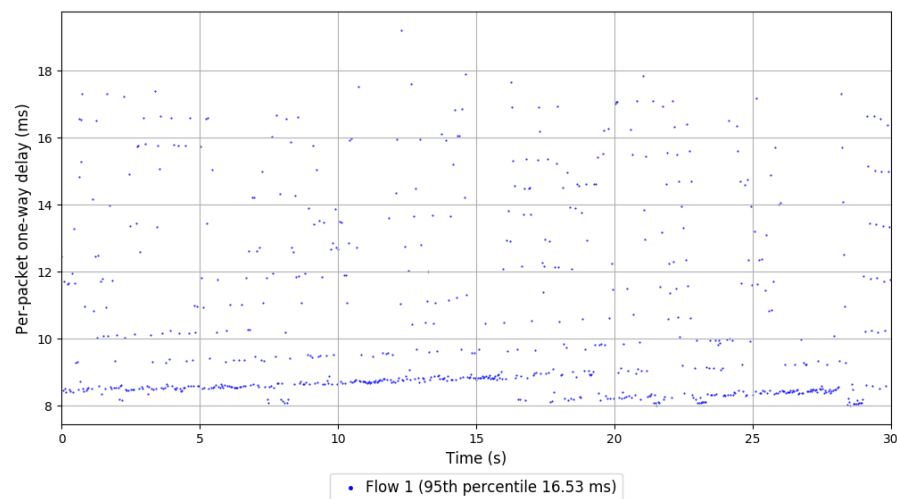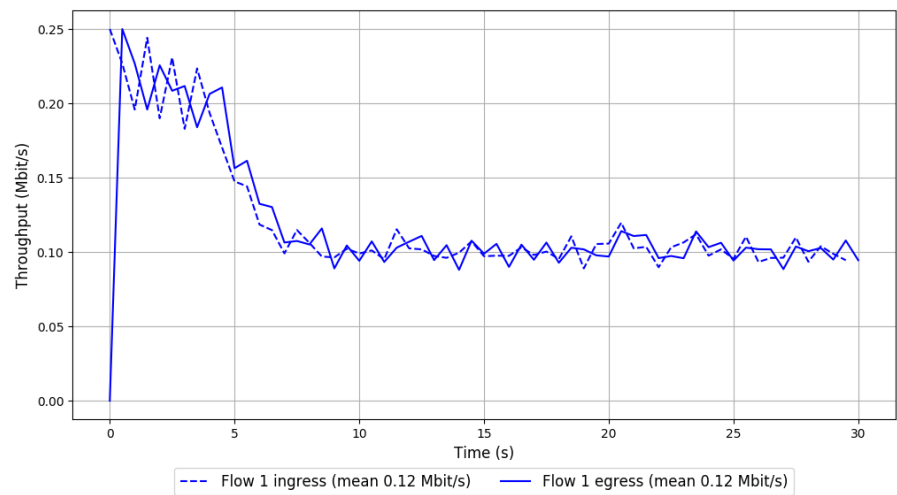
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2018-07-03 11:44:17
End at: 2018-07-03 11:44:47
Local clock offset: -5.444 ms
Remote clock offset: 3.467 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.309 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 16.309 ms
Loss rate: 0.00%
```
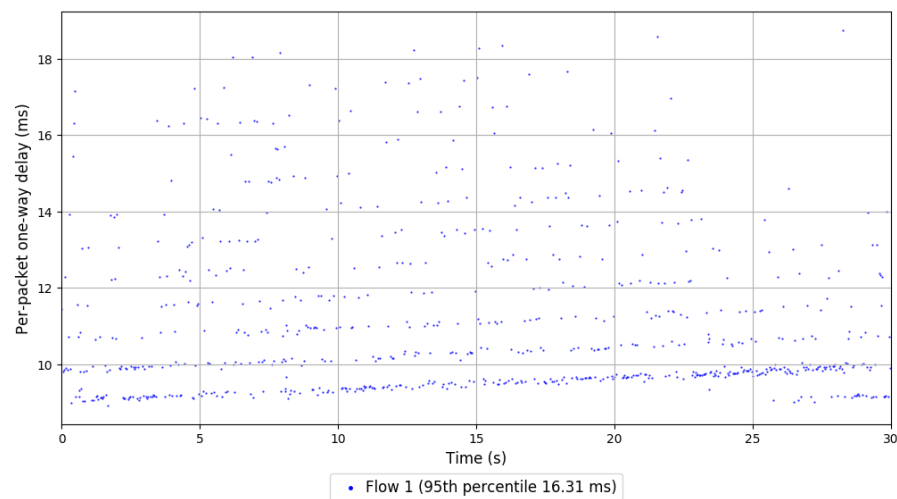
Run 5: Report of SCReAM — Data Link

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

• Flow 1 (95th percentile 16.31 ms)

```
Run 6: Statistics of SCReAM

Start at: 2018-07-03 12:03:30
End at: 2018-07-03 12:04:00
Local clock offset: -7.076 ms
Remote clock offset: -3.505 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 13.789 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 13.789 ms
Loss rate: 0.35%
```
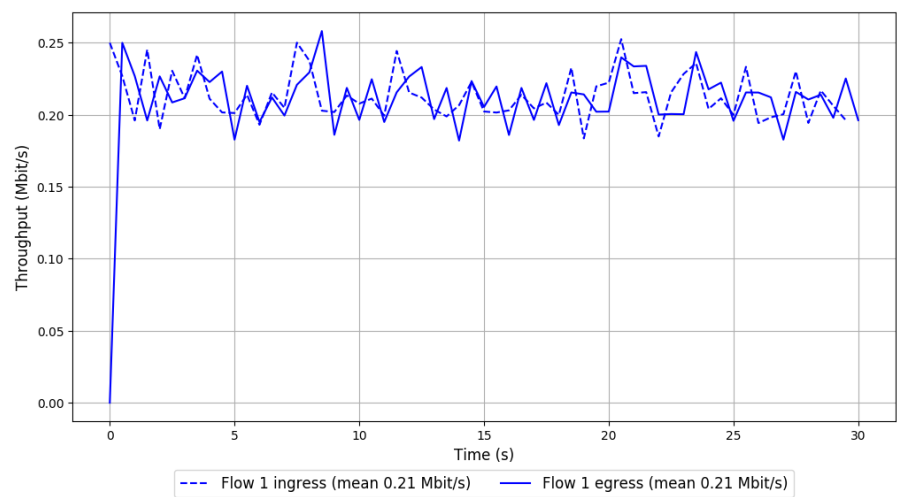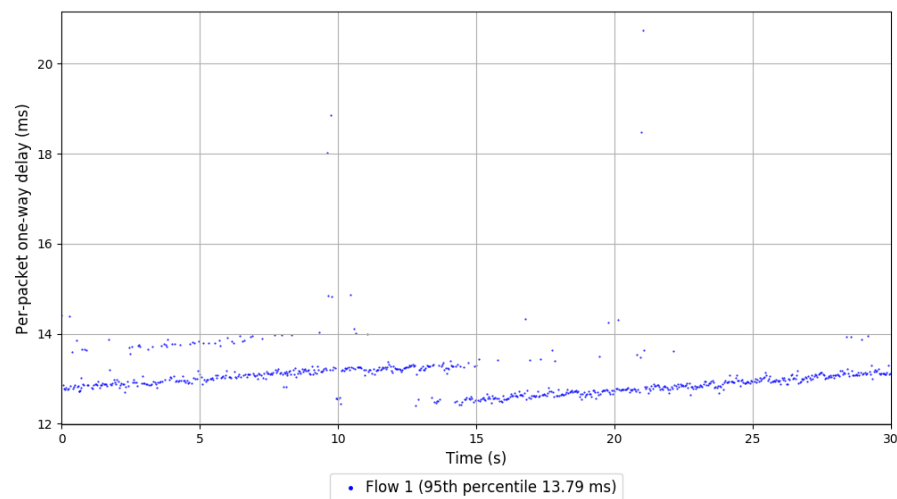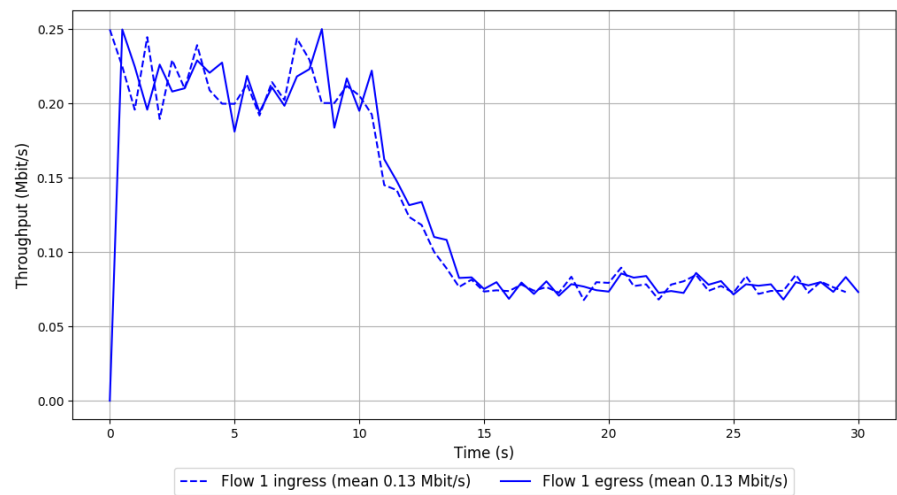
Run 6: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.13 Mbit/s)   Flow 1 egress (mean 0.13 Mbit/s)
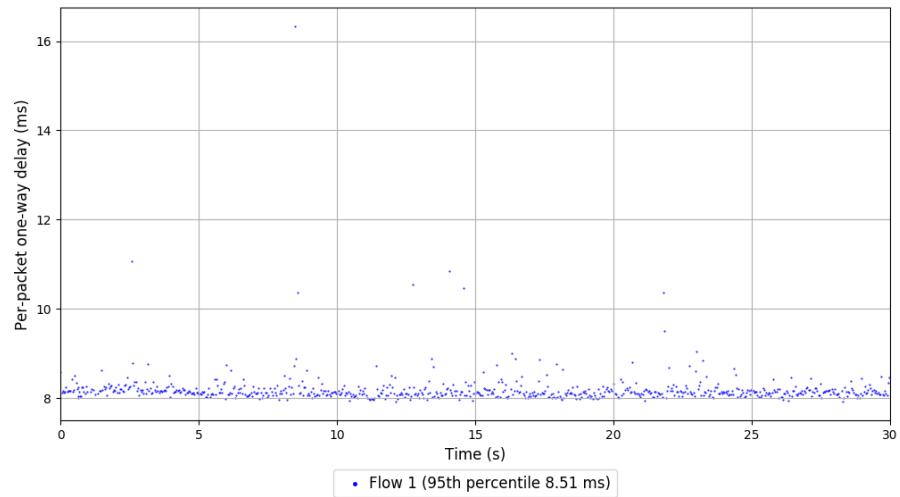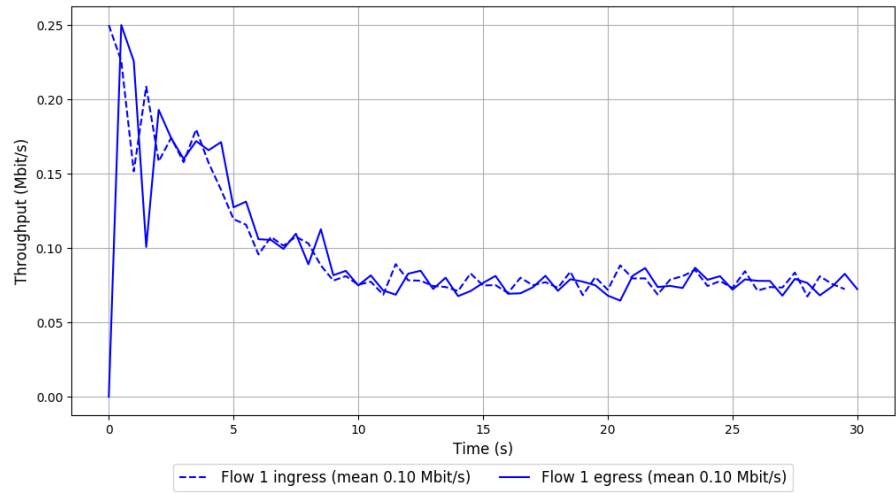

Flow 1 (95th percentile 13.79 ms)

```
Run 7: Statistics of SCReAM

Start at: 2018-07-03 12:22:47
End at: 2018-07-03 12:23:17
Local clock offset: -5.427 ms
Remote clock offset: -9.627 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.508 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 8.508 ms
Loss rate: 1.77%
```

Run 7: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.10 Mbit/s) --- Flow 1 egress (mean 0.10 Mbit/s)
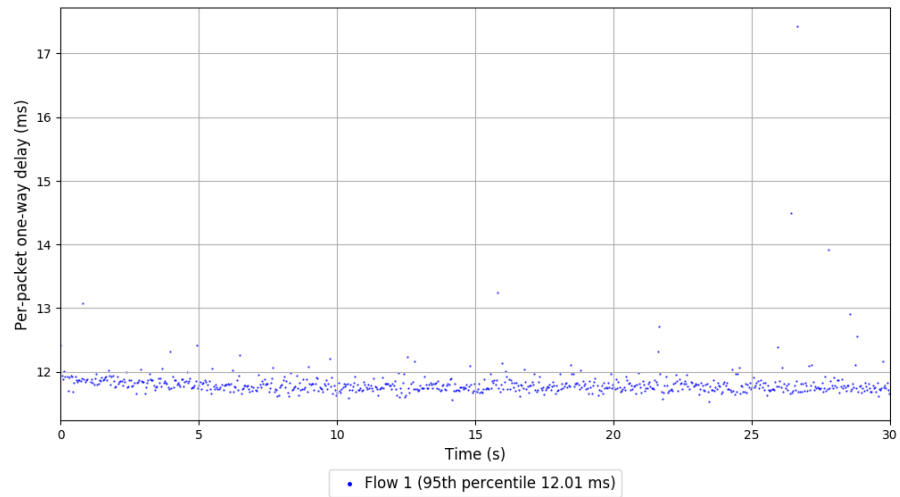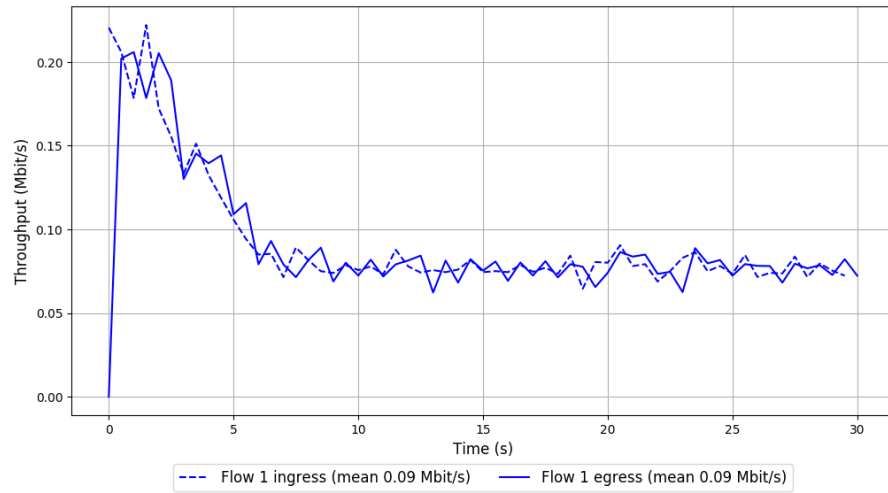

Flow 1 (95th percentile 8.51 ms)

```
Run 8: Statistics of SCReAM

Start at: 2018-07-03 12:42:01
End at: 2018-07-03 12:42:31
Local clock offset: -10.159 ms
Remote clock offset: -8.499 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 12.011 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 12.011 ms
Loss rate: 1.14%
```

Run 8: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.09 Mbit/s)   Flow 1 egress (mean 0.09 Mbit/s)
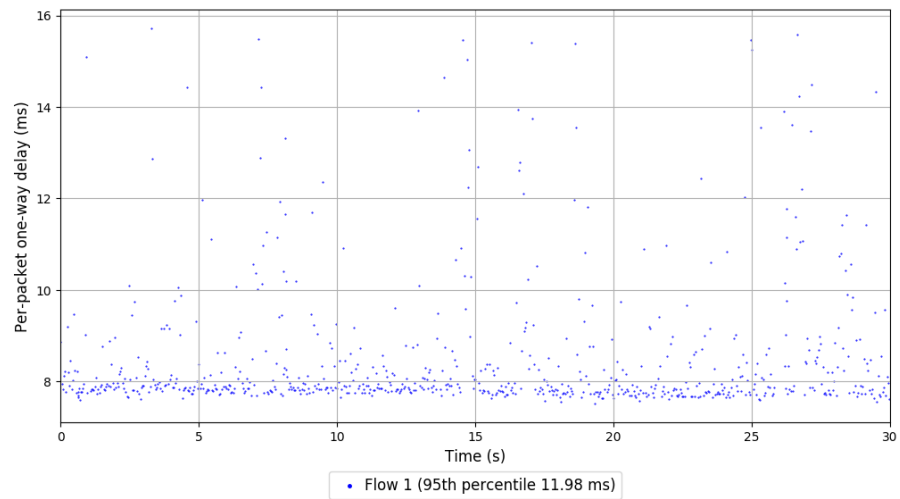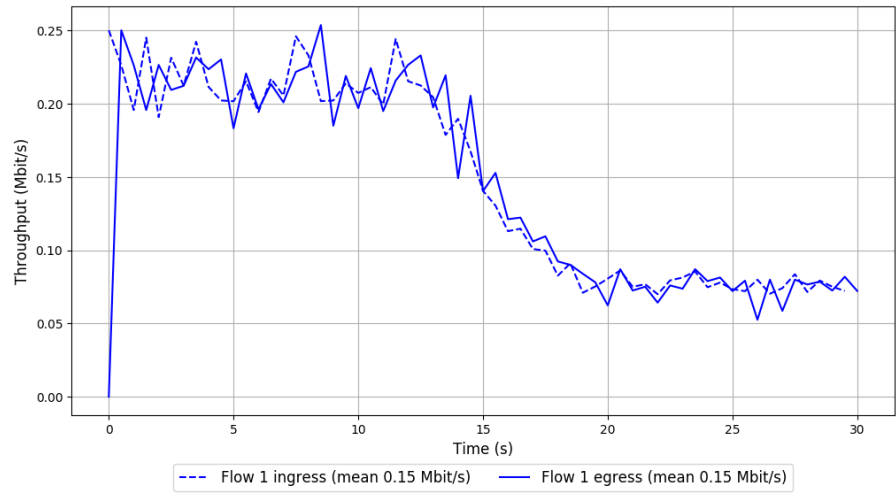

Flow 1 (95th percentile 12.01 ms)

```
Run 9: Statistics of SCReAM

Start at: 2018-07-03 13:01:21
End at: 2018-07-03 13:01:51
Local clock offset: -6.314 ms
Remote clock offset: -9.392 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 11.978 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 11.978 ms
Loss rate: 0.91%
```

Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2018-07-03 13:20:43
End at: 2018-07-03 13:21:13
Local clock offset: 3.977 ms
Remote clock offset: -8.181 ms

# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 7.853 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 7.853 ms
Loss rate: 2.97%
```
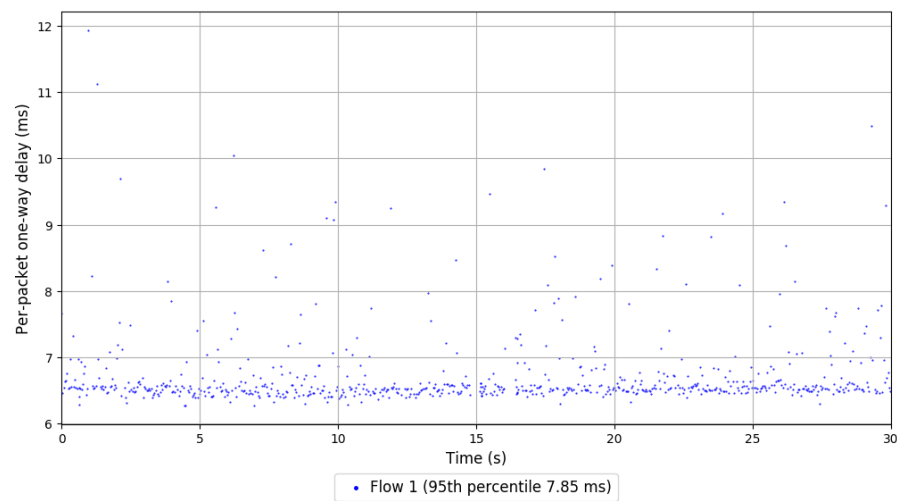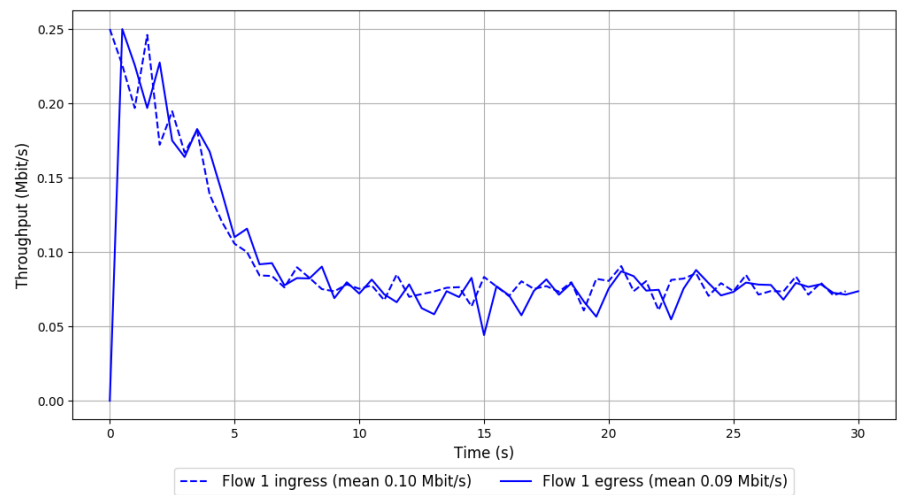
Run 10: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.10 Mbit/s) — — — Flow 1 egress (mean 0.09 Mbit/s)
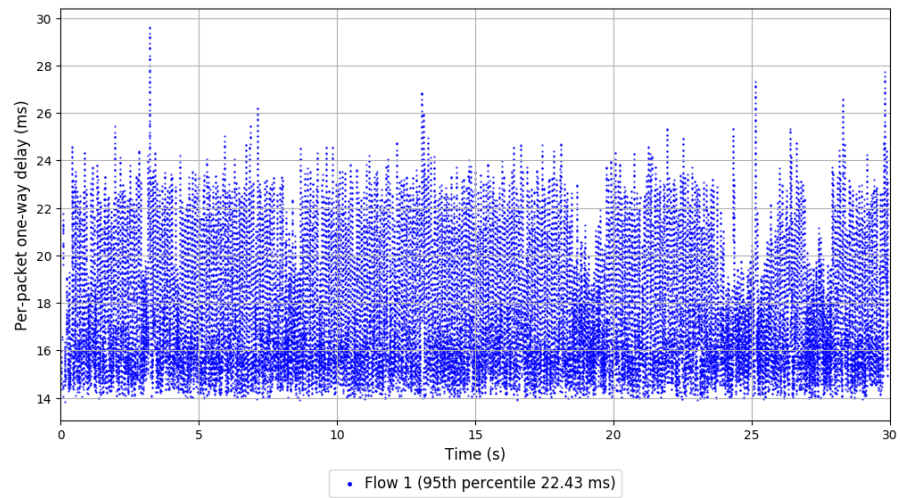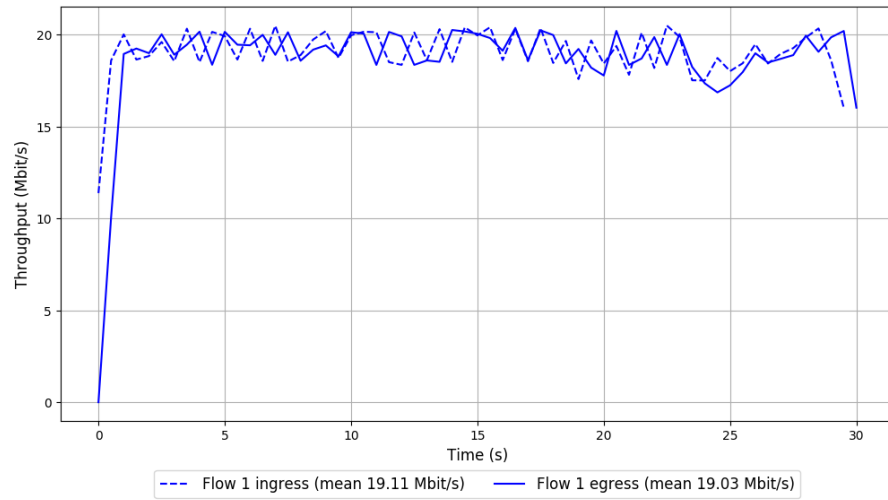

Flow 1 (95th percentile 7.85 ms)

```
Run 1: Statistics of Sprout

Start at: 2018-07-03 10:23:02
End at: 2018-07-03 10:23:32
Local clock offset: -6.415 ms
Remote clock offset: -1.256 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 22.433 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 22.433 ms
Loss rate: 0.43%
```

Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 19.11 Mbit/s) --- Flow 1 egress (mean 19.03 Mbit/s)
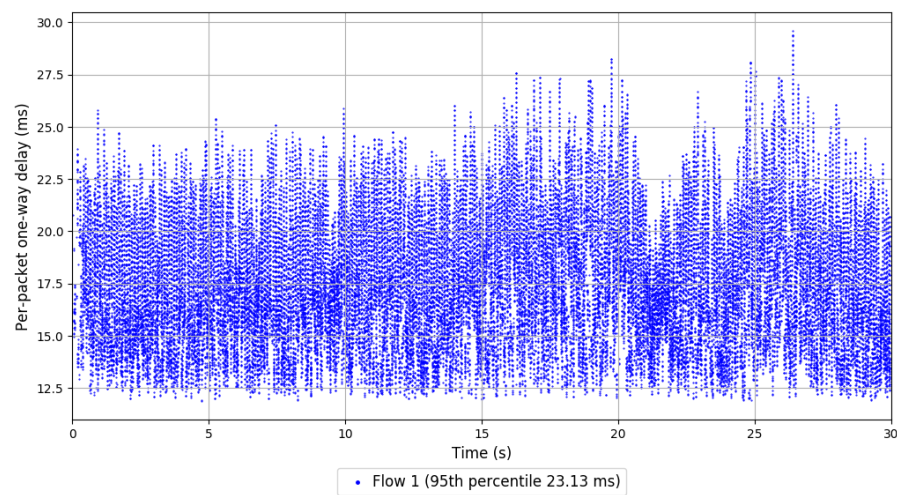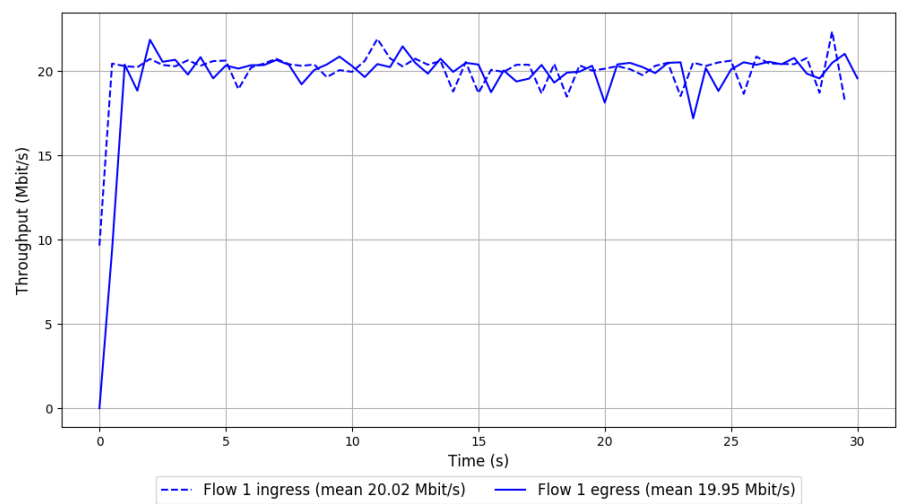

Flow 1 (95th percentile 22.43 ms)

```
Run 2: Statistics of Sprout

Start at: 2018-07-03 10:42:39
End at: 2018-07-03 10:43:09
Local clock offset: -4.292 ms
Remote clock offset: 3.993 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 23.134 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 19.95 Mbit/s
95th percentile per-packet one-way delay: 23.134 ms
Loss rate: 0.33%
```

Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 20.02 Mbit/s) ----- Flow 1 egress (mean 19.95 Mbit/s) ——
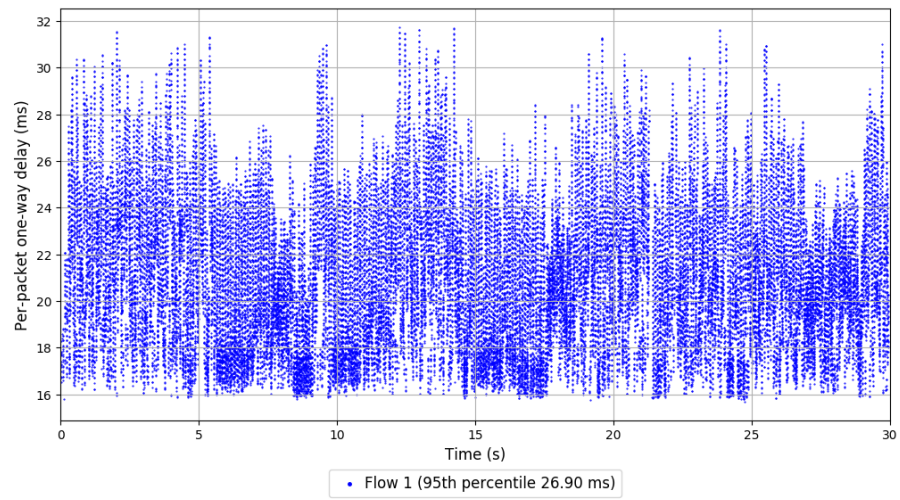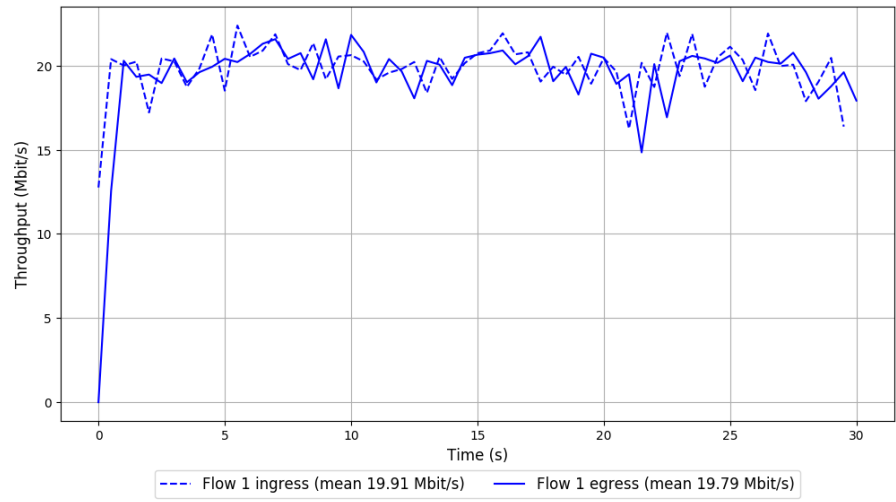

Flow 1 (95th percentile 23.13 ms)

```
Run 3: Statistics of Sprout

Start at: 2018-07-03 11:02:02
End at: 2018-07-03 11:02:32
Local clock offset: -7.486 ms
Remote clock offset: 6.629 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.79 Mbit/s
95th percentile per-packet one-way delay: 26.900 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 19.79 Mbit/s
95th percentile per-packet one-way delay: 26.900 ms
Loss rate: 0.61%
```

Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 19.91 Mbit/s)   Flow 1 egress (mean 19.79 Mbit/s)
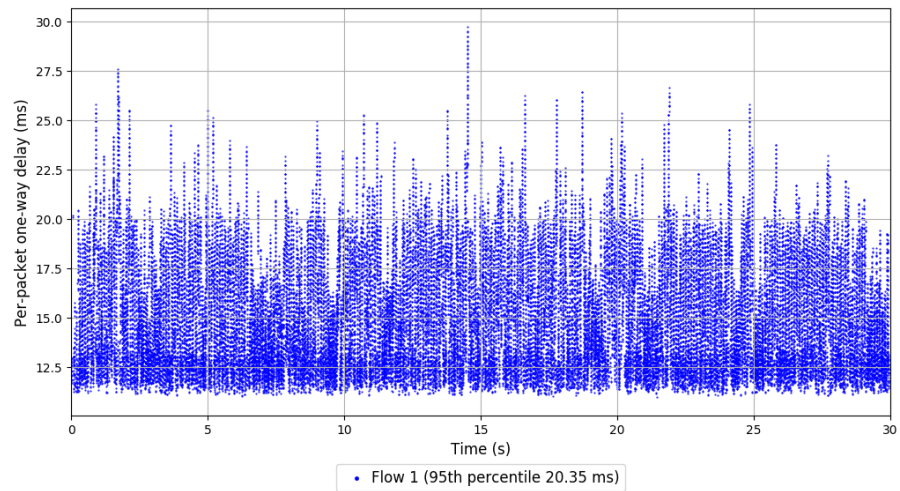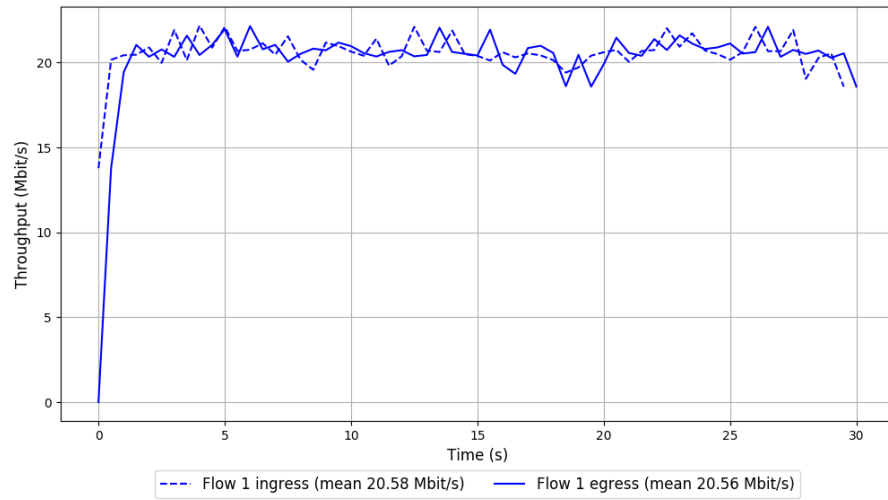

Flow 1 (95th percentile 26.90 ms)

```
Run 4: Statistics of Sprout

Start at: 2018-07-03 11:21:29
End at: 2018-07-03 11:21:59
Local clock offset: -9.058 ms
Remote clock offset: 5.286 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 20.349 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 20.349 ms
Loss rate: 0.09%
```

Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-07-03 11:40:58
End at: 2018-07-03 11:41:28
Local clock offset: -5.49 ms
Remote clock offset: 3.382 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 20.164 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 19.67 Mbit/s
95th percentile per-packet one-way delay: 20.164 ms
Loss rate: 0.18%
```
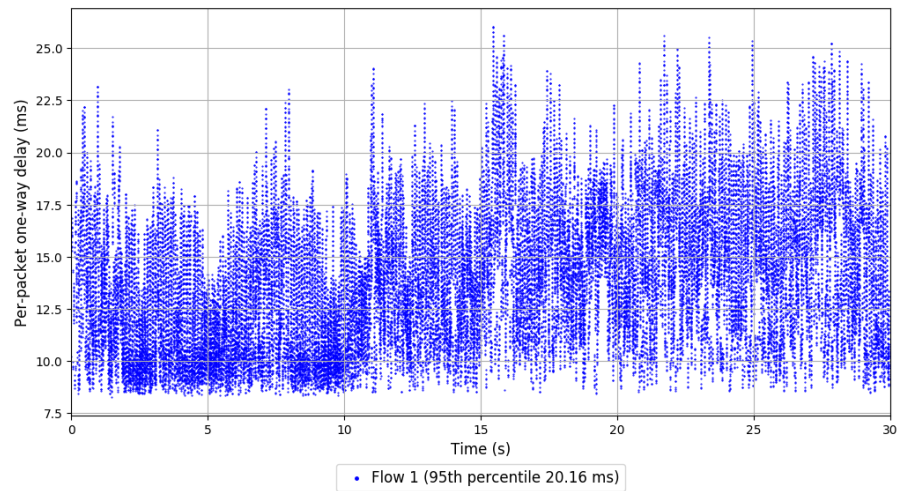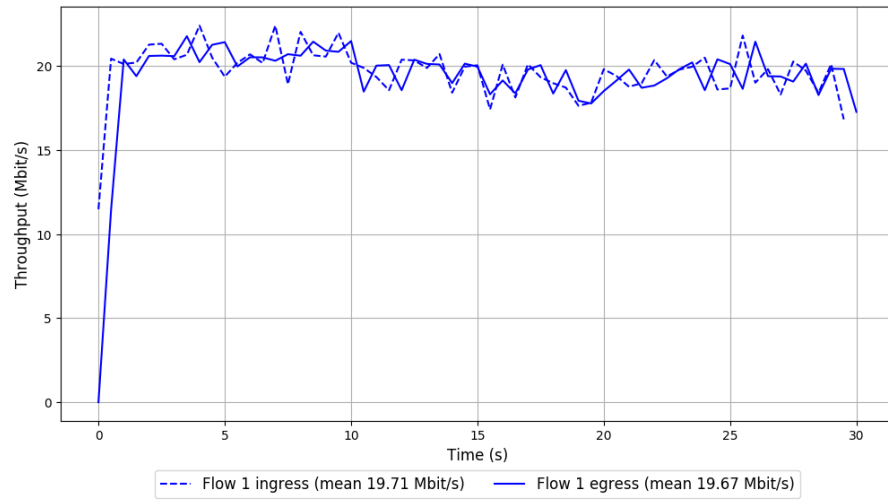
Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 19.71 Mbit/s)   Flow 1 egress (mean 19.67 Mbit/s)
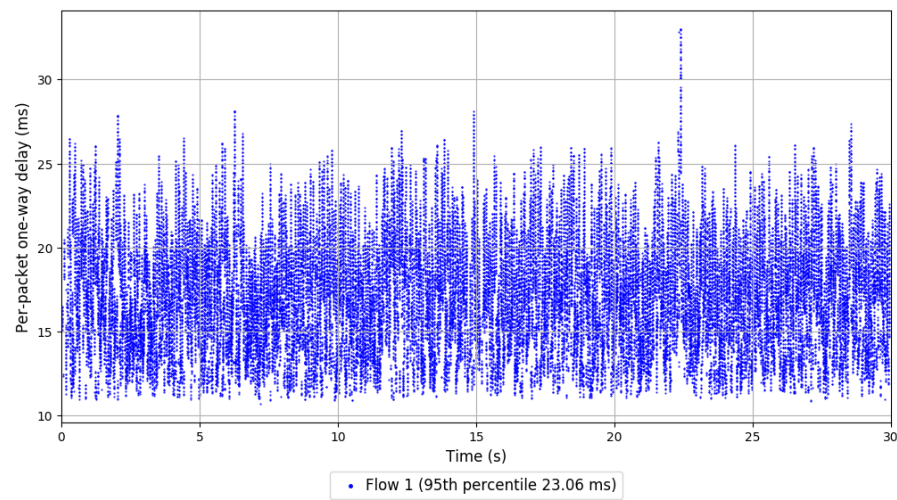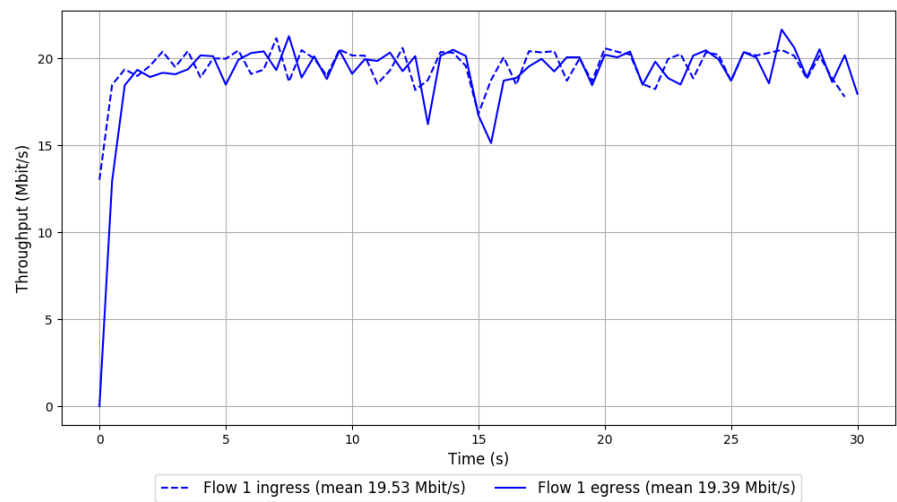

Flow 1 (95th percentile 20.16 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-07-03 12:00:07
End at: 2018-07-03 12:00:38
Local clock offset: -4.121 ms
Remote clock offset: -0.542 ms


# Below is generated by plot.py at 2018-07-03 13:48:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.39 Mbit/s
95th percentile per-packet one-way delay: 23.062 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 19.39 Mbit/s
95th percentile per-packet one-way delay: 23.062 ms
Loss rate: 0.70%
```

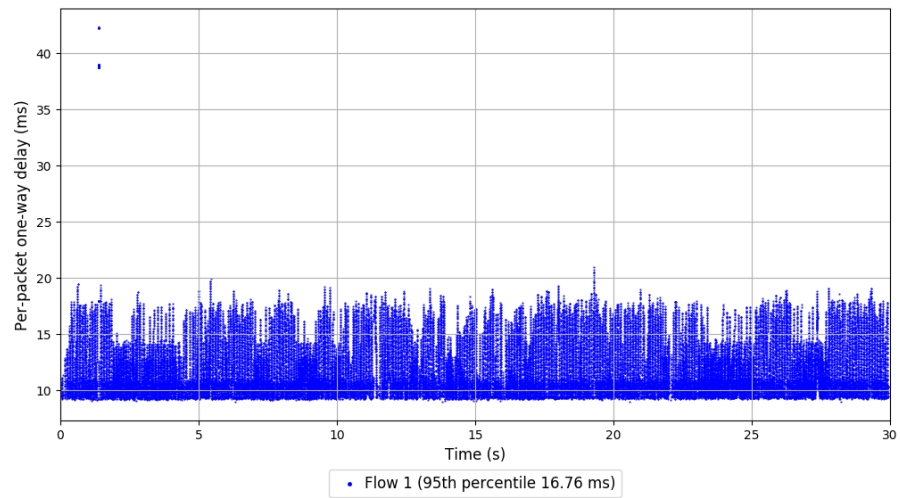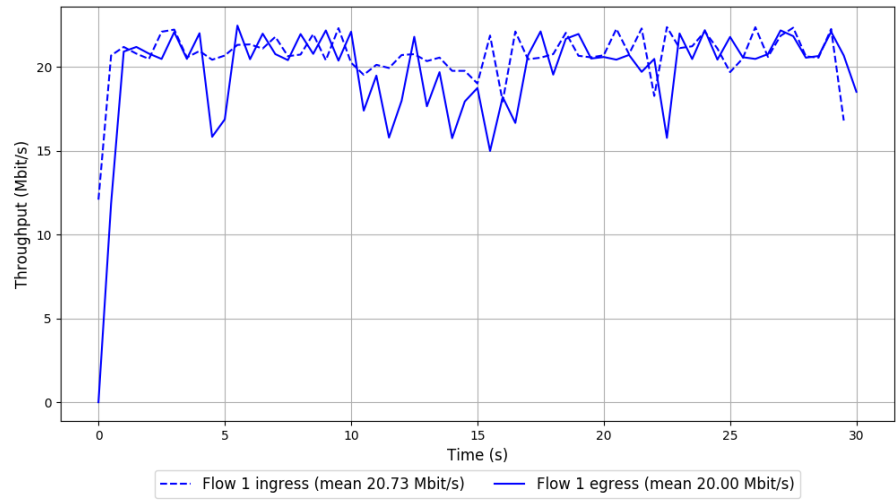## Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2018-07-03 12:19:27
End at: 2018-07-03 12:19:57
Local clock offset: -6.534 ms
Remote clock offset: -9.073 ms


# Below is generated by plot.py at 2018-07-03 13:48:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.00 Mbit/s
95th percentile per-packet one-way delay: 16.762 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 20.00 Mbit/s
95th percentile per-packet one-way delay: 16.762 ms
Loss rate: 3.54%
```

Run 7: Report of Sprout — Data Link

Flow 1 ingress (mean 20.73 Mbit/s) --- Flow 1 egress (mean 20.00 Mbit/s)
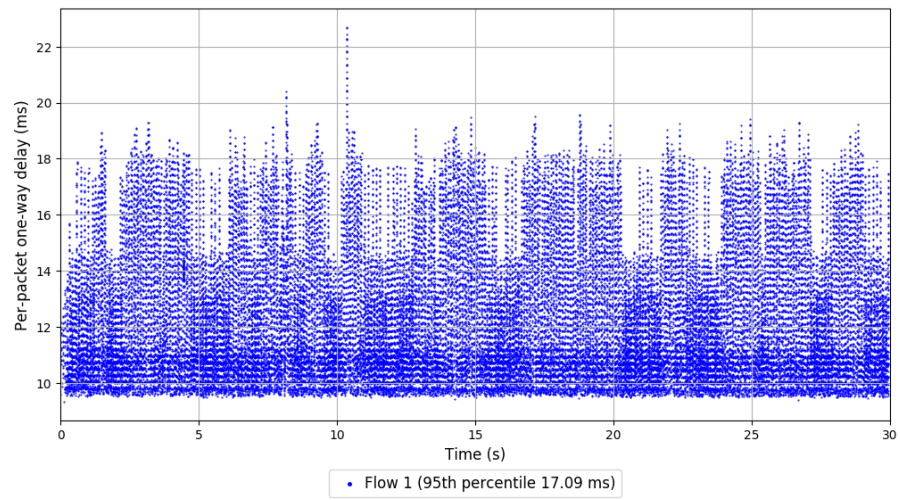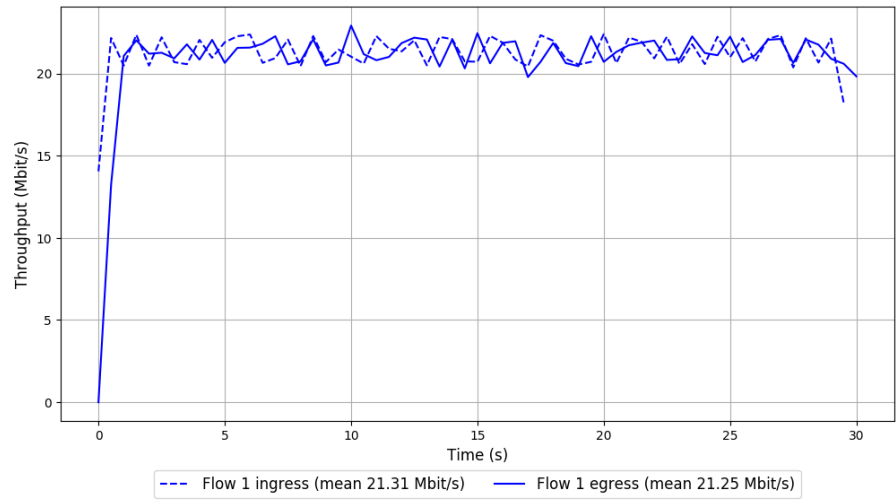

Flow 1 (95th percentile 16.76 ms)

```
Run 8: Statistics of Sprout

Start at: 2018-07-03 12:38:41
End at: 2018-07-03 12:39:11
Local clock offset: -8.804 ms
Remote clock offset: -9.445 ms


# Below is generated by plot.py at 2018-07-03 13:48:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 17.091 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 17.091 ms
Loss rate: 0.26%
```

Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 21.31 Mbit/s)   Flow 1 egress (mean 21.25 Mbit/s)
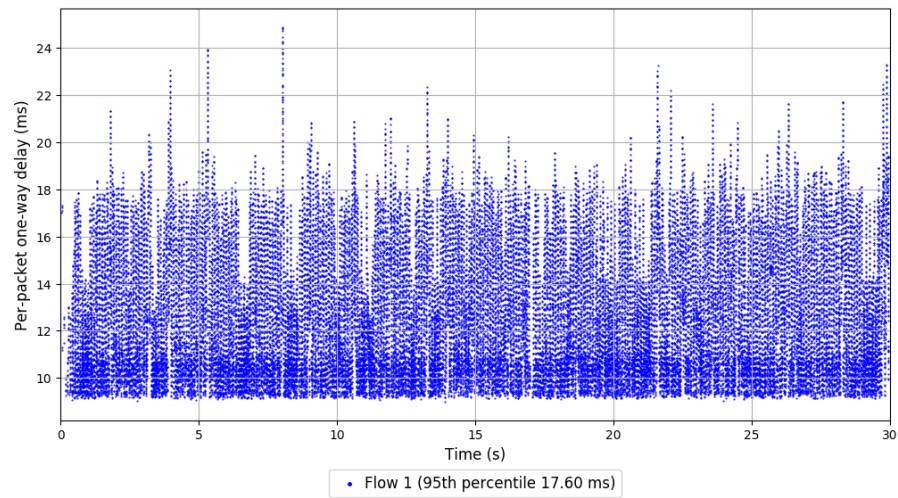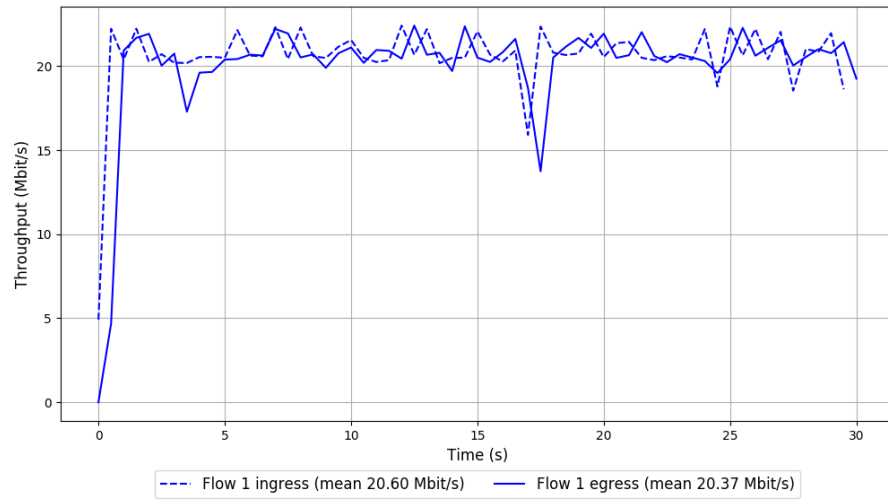

Flow 1 (95th percentile 17.09 ms)

```
Run 9: Statistics of Sprout

Start at: 2018-07-03 12:57:55
End at: 2018-07-03 12:58:25
Local clock offset: -7.528 ms
Remote clock offset: -8.944 ms


# Below is generated by plot.py at 2018-07-03 13:48:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 17.603 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 17.603 ms
Loss rate: 1.12%
```
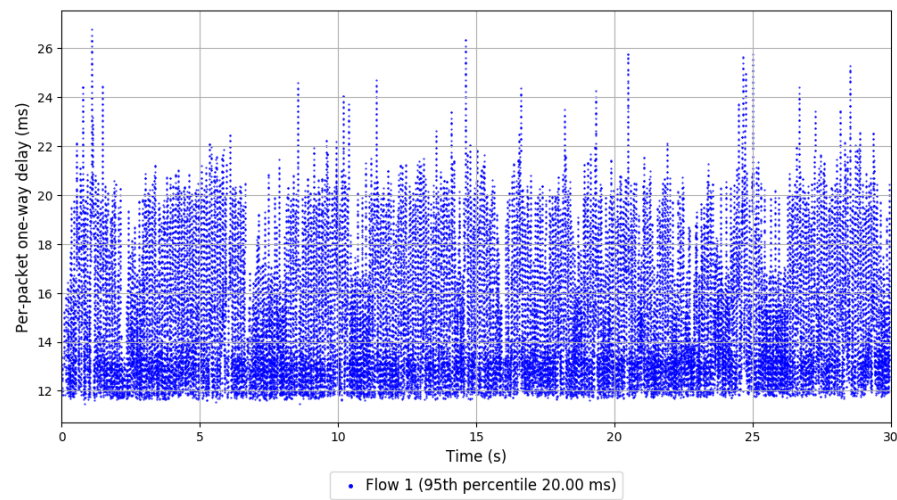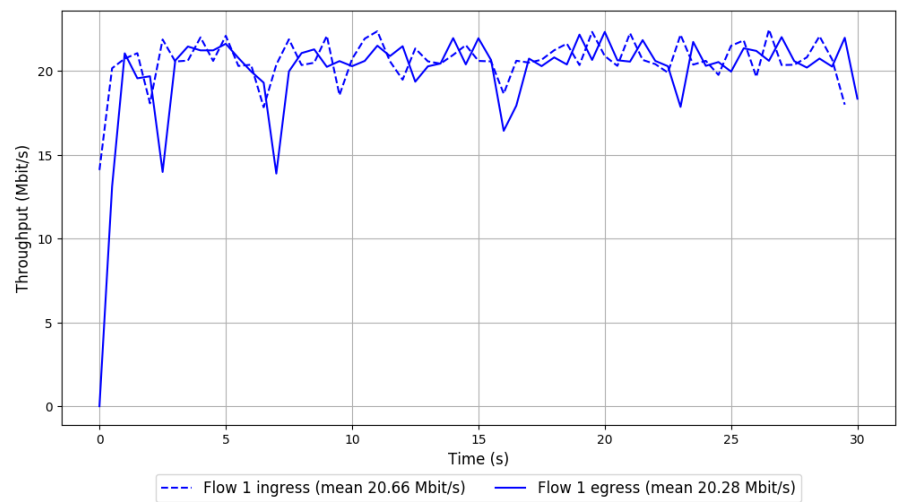
Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2018-07-03 13:17:18
End at: 2018-07-03 13:17:49
Local clock offset: -2.078 ms
Remote clock offset: -8.004 ms


# Below is generated by plot.py at 2018-07-03 13:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.28 Mbit/s
95th percentile per-packet one-way delay: 19.998 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 20.28 Mbit/s
95th percentile per-packet one-way delay: 19.998 ms
Loss rate: 1.82%
```
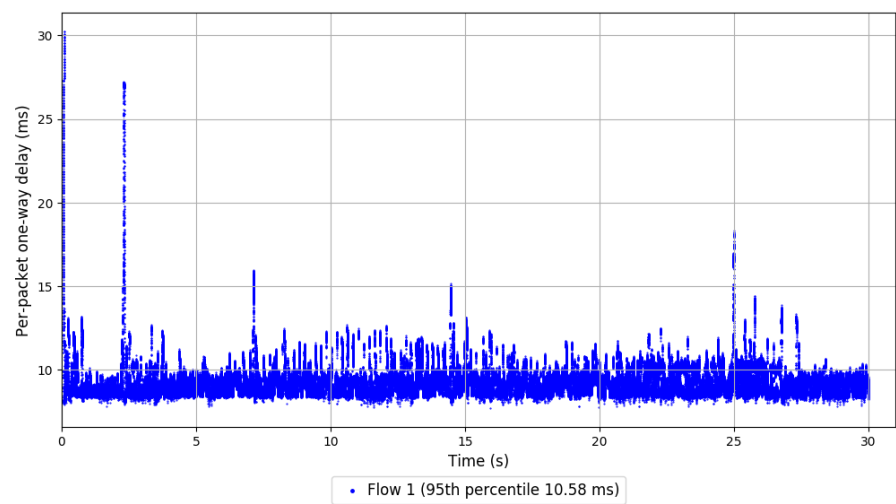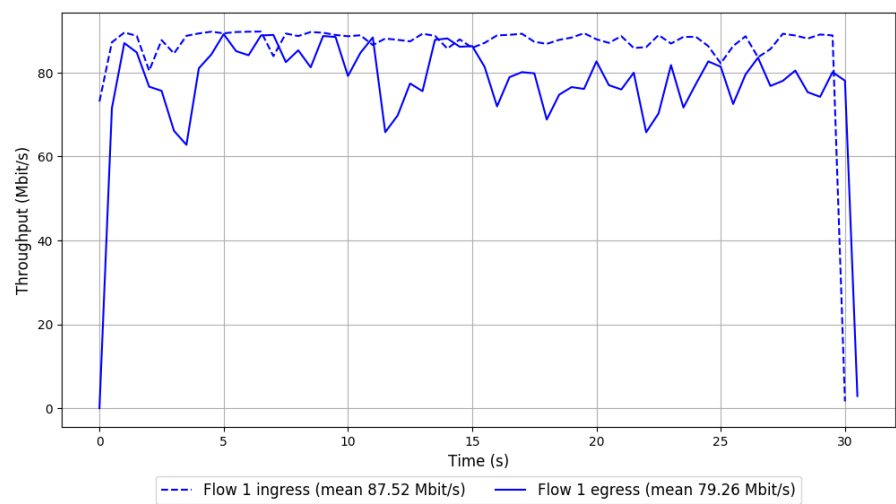
Run 10: Report of Sprout — Data Link

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

Start at: 2018-07-03 10:29:45
End at: 2018-07-03 10:30:15
Local clock offset: -1.674 ms
Remote clock offset: 1.893 ms

# Below is generated by plot.py at 2018-07-03 13:50:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.26 Mbit/s
95th percentile per-packet one-way delay: 10.582 ms
Loss rate: 9.44%
-- Flow 1:
Average throughput: 79.26 Mbit/s
95th percentile per-packet one-way delay: 10.582 ms
Loss rate: 9.44%
```

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

Flow 1 ingress (mean 87.52 Mbit/s) ---- Flow 1 egress (mean 79.26 Mbit/s)

Flow 1 (95th percentile 10.58 ms)

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

Start at: 2018-07-03 10:49:25
End at: 2018-07-03 10:49:55
Local clock offset: -1.253 ms
Remote clock offset: 5.895 ms


# Below is generated by plot.py at 2018-07-03 13:50:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.36 Mbit/s
95th percentile per-packet one-way delay: 13.200 ms
Loss rate: 10.32%
-- Flow 1:
Average throughput: 78.36 Mbit/s
95th percentile per-packet one-way delay: 13.200 ms
Loss rate: 10.32%
```
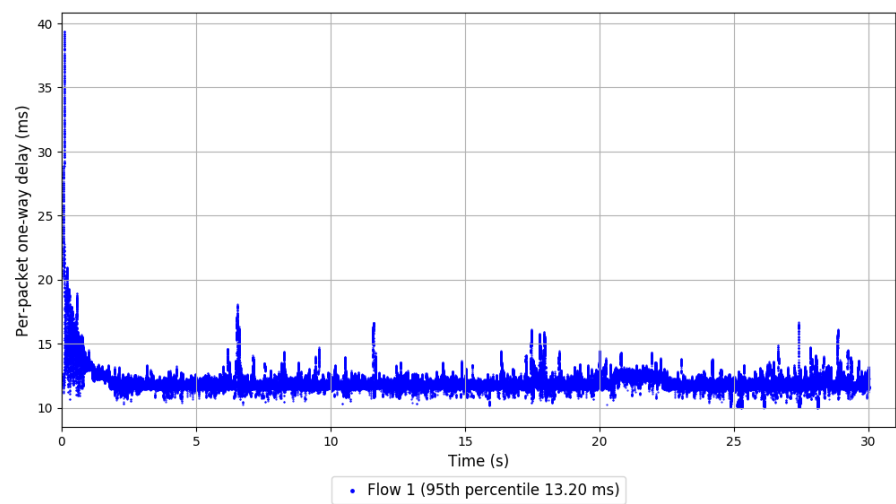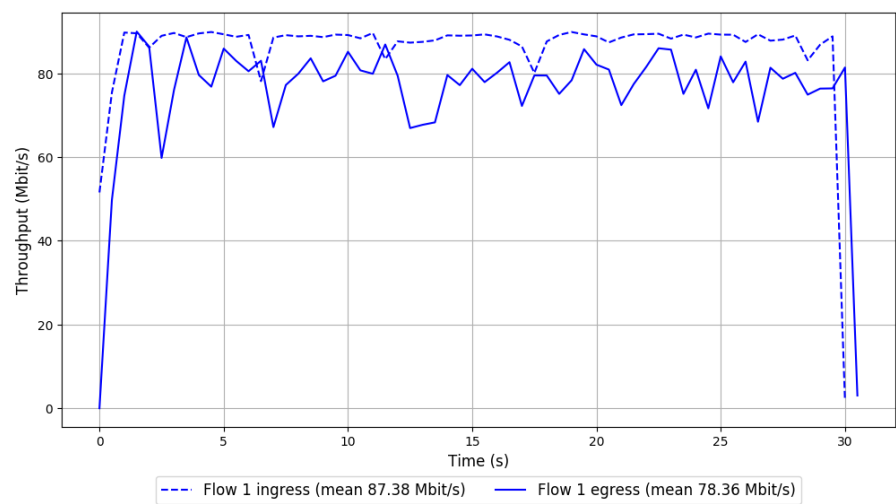
Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2018-07-03 11:08:43
End at: 2018-07-03 11:09:13
Local clock offset: -7.808 ms
Remote clock offset: 4.708 ms


# Below is generated by plot.py at 2018-07-03 13:50:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.23 Mbit/s
95th percentile per-packet one-way delay: 14.707 ms
Loss rate: 9.49%
-- Flow 1:
Average throughput: 77.23 Mbit/s
95th percentile per-packet one-way delay: 14.707 ms
Loss rate: 9.49%
```
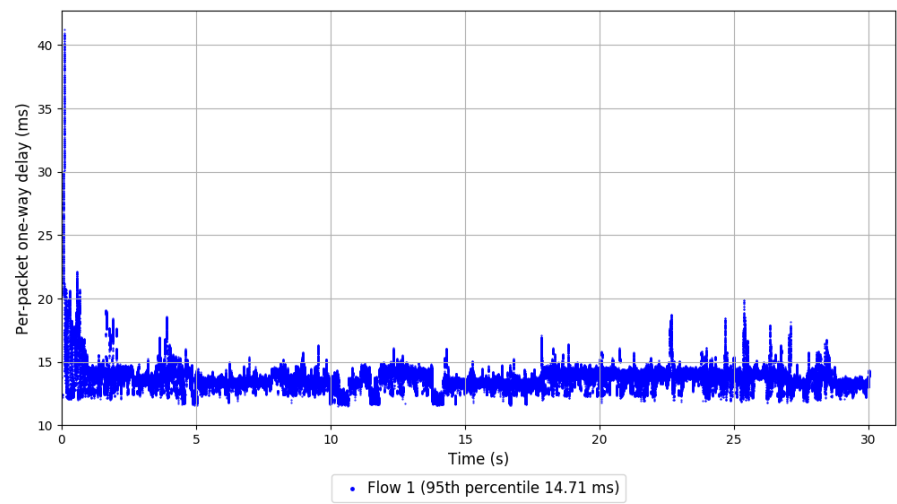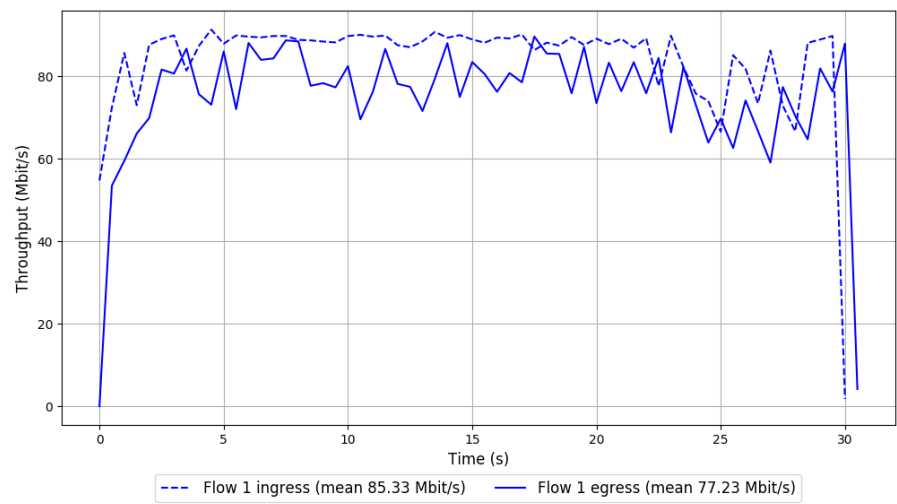
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 85.33 Mbit/s)   Flow 1 egress (mean 77.23 Mbit/s)

Flow 1 (95th percentile 14.71 ms)

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

Start at: 2018-07-03 11:28:12
End at: 2018-07-03 11:28:42
Local clock offset: -9.138 ms
Remote clock offset: 4.549 ms

# Below is generated by plot.py at 2018-07-03 13:50:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.95 Mbit/s
95th percentile per-packet one-way delay: 13.476 ms
Loss rate: 7.93%
-- Flow 1:
Average throughput: 79.95 Mbit/s
95th percentile per-packet one-way delay: 13.476 ms
Loss rate: 7.93%
```
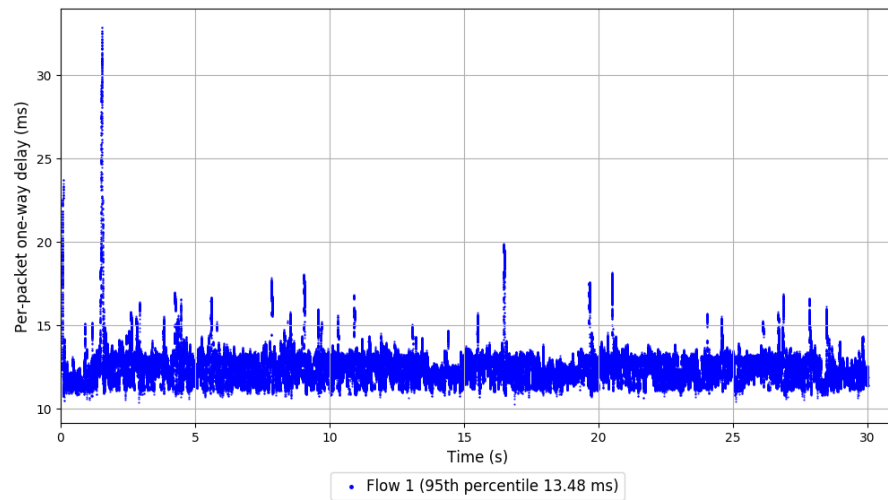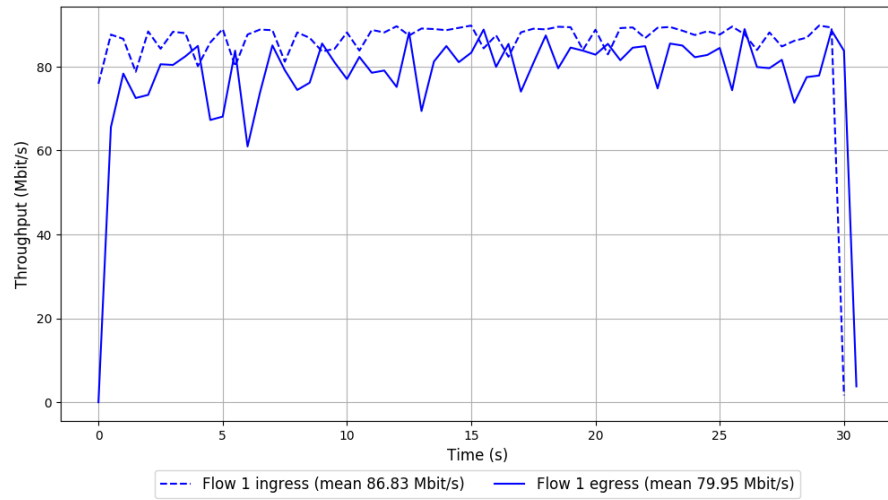
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 86.83 Mbit/s) --- Flow 1 egress (mean 79.95 Mbit/s)

Flow 1 (95th percentile 13.48 ms)

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

Start at: 2018-07-03 11:47:37
End at: 2018-07-03 11:48:07
Local clock offset: -3.472 ms
Remote clock offset: 3.871 ms


# Below is generated by plot.py at 2018-07-03 13:50:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.67 Mbit/s
95th percentile per-packet one-way delay: 10.844 ms
Loss rate: 4.52%
-- Flow 1:
Average throughput: 83.67 Mbit/s
95th percentile per-packet one-way delay: 10.844 ms
Loss rate: 4.52%
```
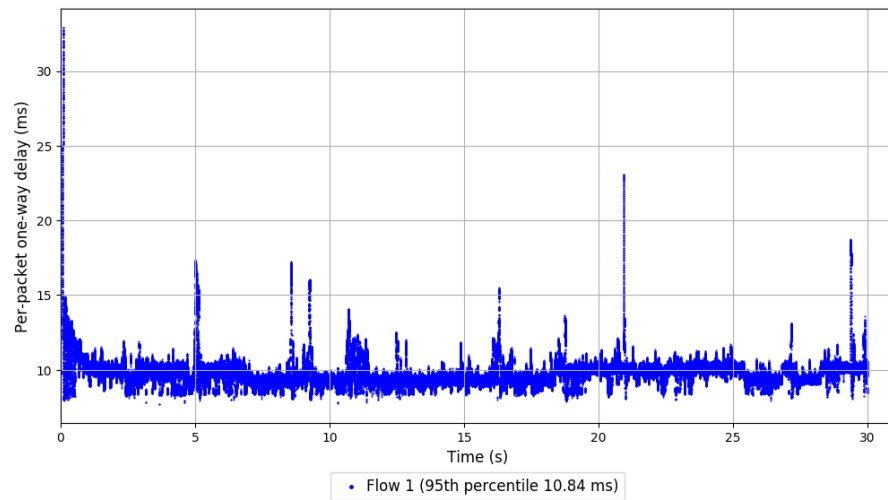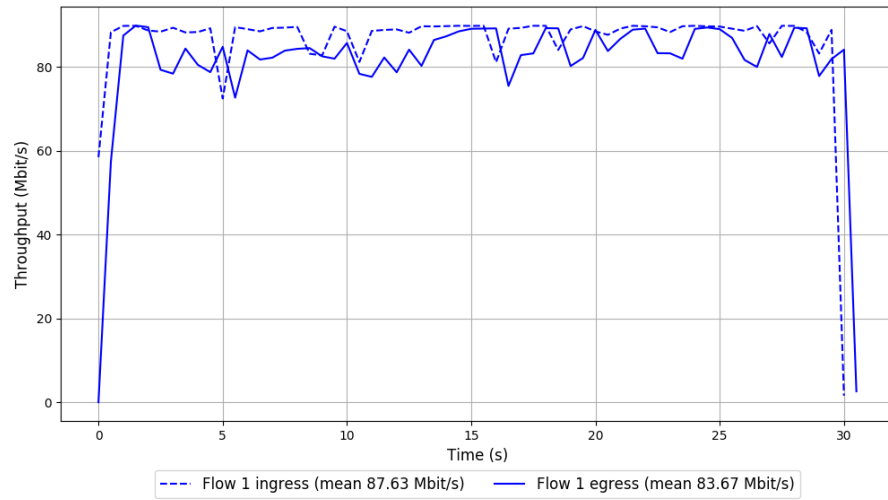
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 87.63 Mbit/s)   Flow 1 egress (mean 83.67 Mbit/s)

Flow 1 (95th percentile 10.84 ms)

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

Start at: 2018-07-03 12:06:50
End at: 2018-07-03 12:07:20
Local clock offset: -2.523 ms
Remote clock offset: -4.92 ms


# Below is generated by plot.py at 2018-07-03 13:50:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.24 Mbit/s
95th percentile per-packet one-way delay: 8.907 ms
Loss rate: 6.52%
-- Flow 1:
Average throughput: 84.24 Mbit/s
95th percentile per-packet one-way delay: 8.907 ms
Loss rate: 6.52%
```
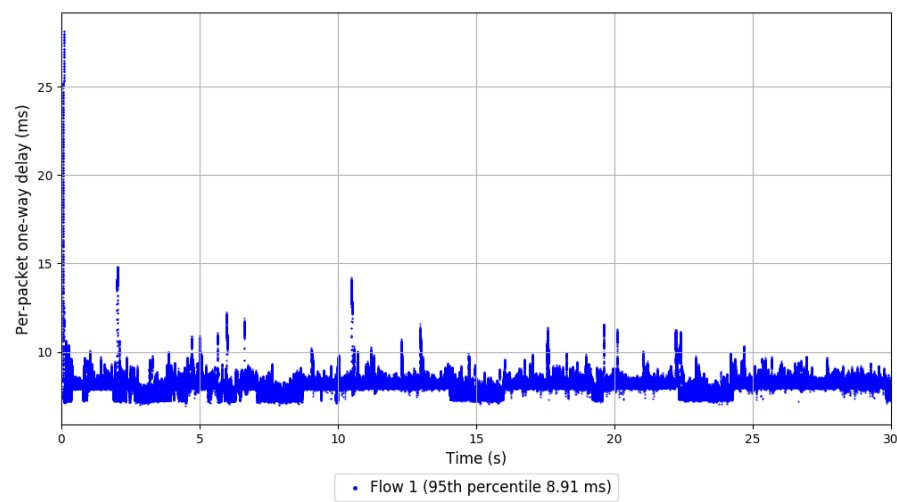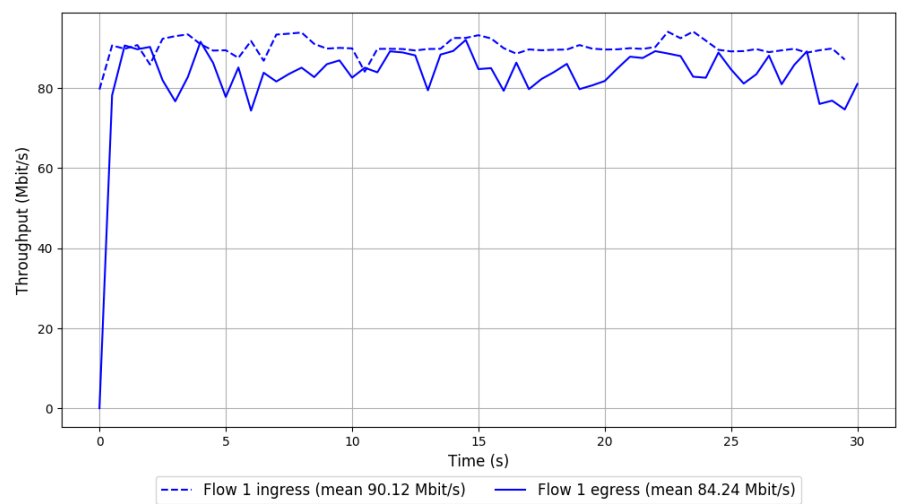
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 90.12 Mbit/s)　　Flow 1 egress (mean 84.24 Mbit/s)

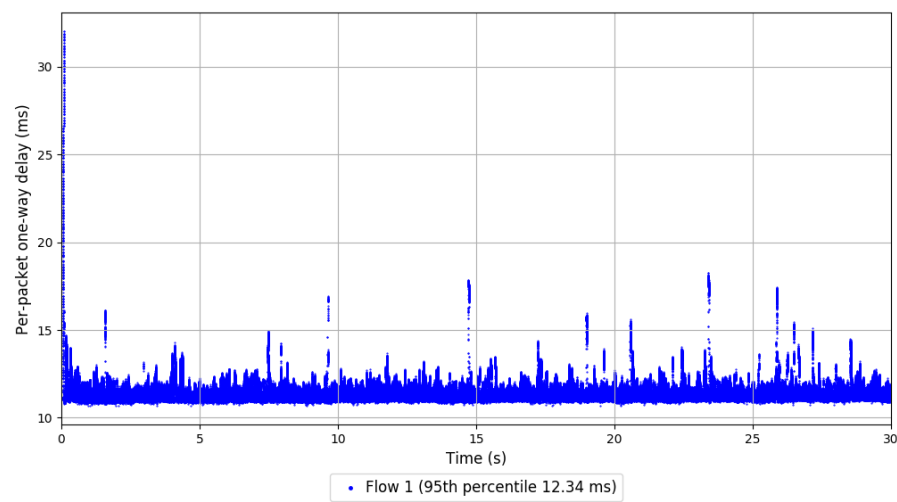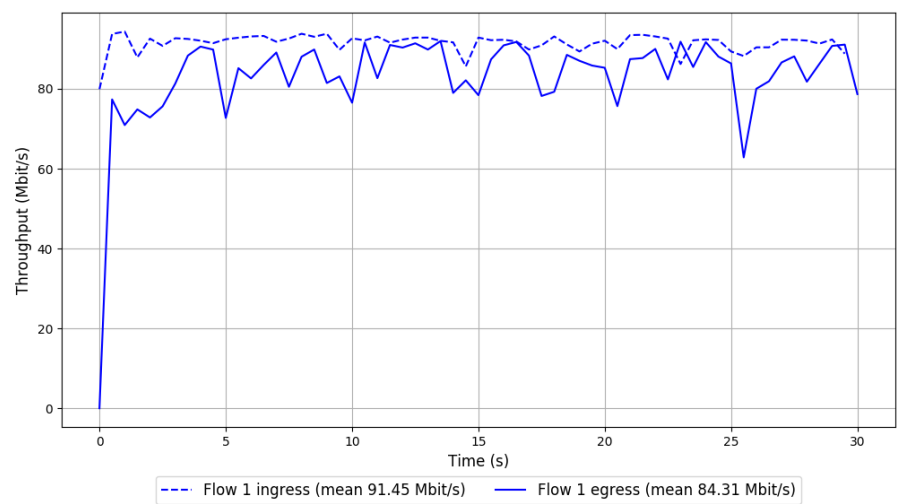Flow 1 (95th percentile 8.91 ms)

255

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

Start at: 2018-07-03 12:26:08
End at: 2018-07-03 12:26:38
Local clock offset: -8.747 ms
Remote clock offset: -10.66 ms


# Below is generated by plot.py at 2018-07-03 13:50:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 12.342 ms
Loss rate: 7.81%
-- Flow 1:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 12.342 ms
Loss rate: 7.81%
```

Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 91.45 Mbit/s)   Flow 1 egress (mean 84.31 Mbit/s)
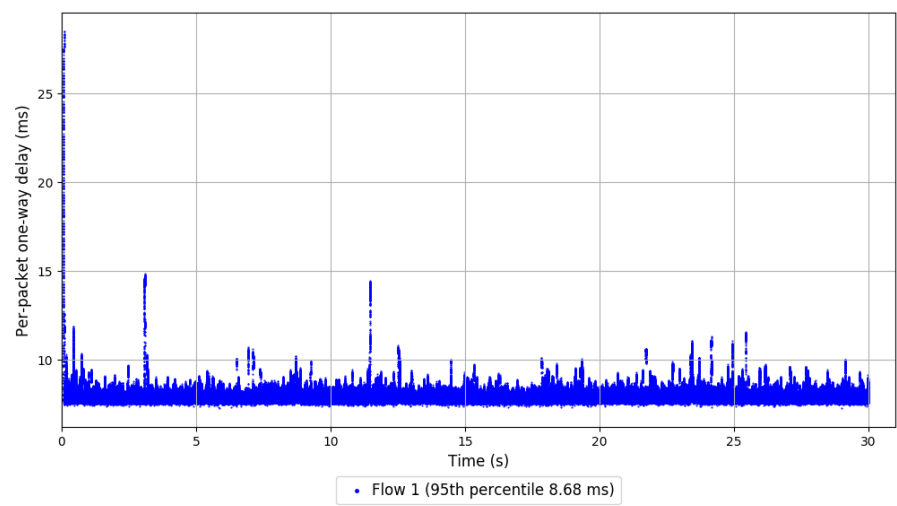
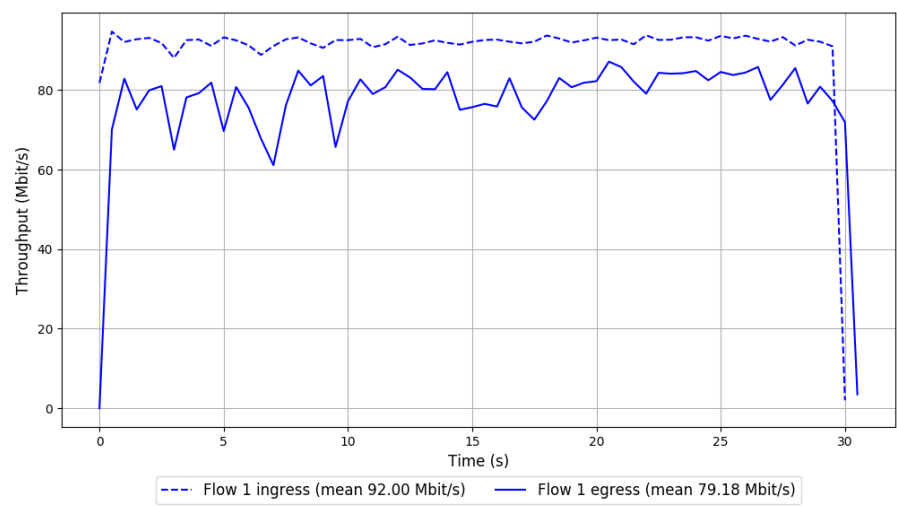

• Flow 1 (95th percentile 12.34 ms)

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

Start at: 2018-07-03 12:45:22
End at: 2018-07-03 12:45:52
Local clock offset: -5.627 ms
Remote clock offset: -8.252 ms


# Below is generated by plot.py at 2018-07-03 13:50:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.18 Mbit/s
95th percentile per-packet one-way delay: 8.677 ms
Loss rate: 13.93%
-- Flow 1:
Average throughput: 79.18 Mbit/s
95th percentile per-packet one-way delay: 8.677 ms
Loss rate: 13.93%
```

Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 92.00 Mbit/s) ----- Flow 1 egress (mean 79.18 Mbit/s)
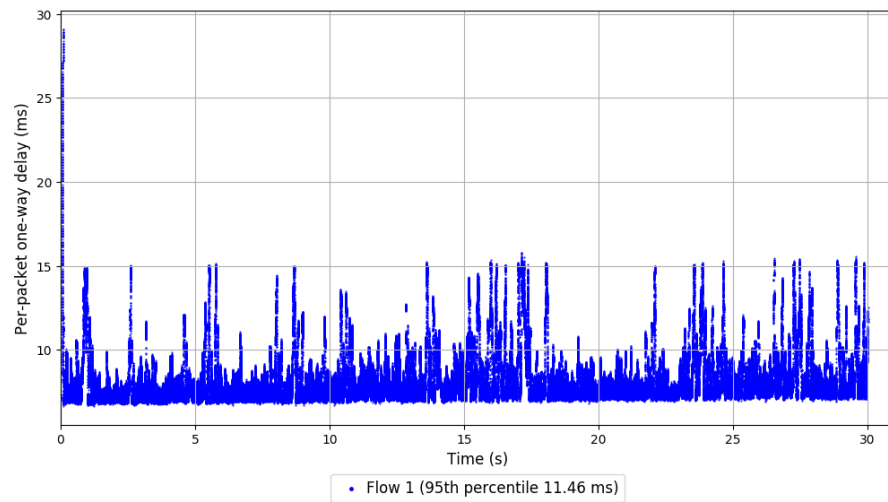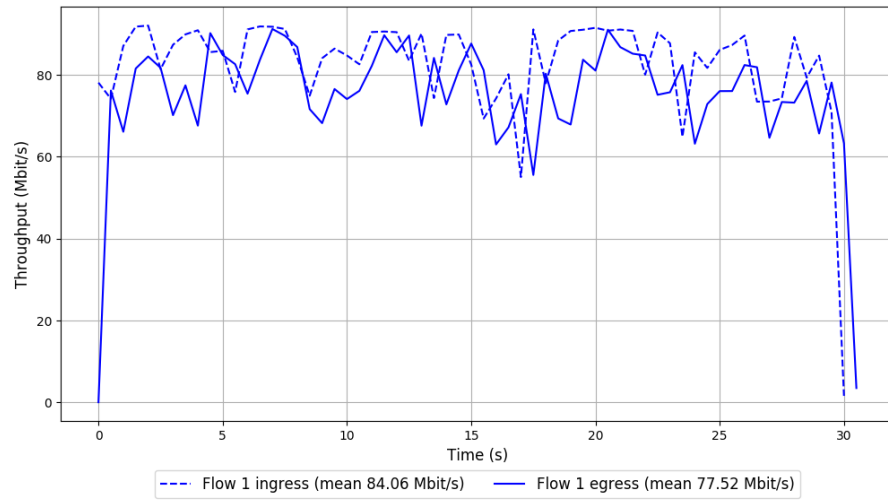

Flow 1 (95th percentile 8.68 ms)

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

Start at: 2018-07-03 13:04:42
End at: 2018-07-03 13:05:12
Local clock offset: -4.186 ms
Remote clock offset: -9.364 ms


# Below is generated by plot.py at 2018-07-03 13:52:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.52 Mbit/s
95th percentile per-packet one-way delay: 11.463 ms
Loss rate: 7.77%
-- Flow 1:
Average throughput: 77.52 Mbit/s
95th percentile per-packet one-way delay: 11.463 ms
Loss rate: 7.77%
```

Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 84.06 Mbit/s) ----- Flow 1 egress (mean 77.52 Mbit/s)

• Flow 1 (95th percentile 11.46 ms)

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

Start at: 2018-07-03 13:24:06
End at: 2018-07-03 13:24:36
Local clock offset: 5.46 ms
Remote clock offset: -6.812 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 10.565 ms
Loss rate: 9.66%
-- Flow 1:
Average throughput: 78.88 Mbit/s
95th percentile per-packet one-way delay: 10.565 ms
Loss rate: 9.66%
```
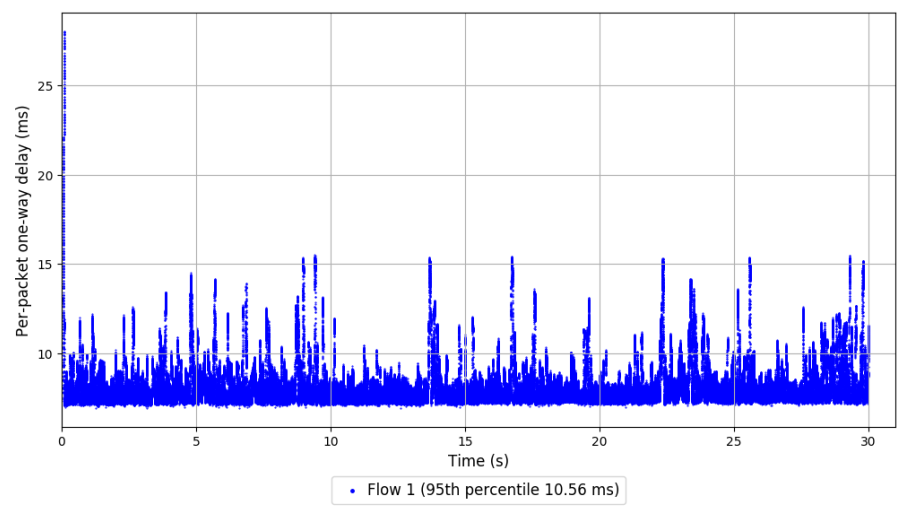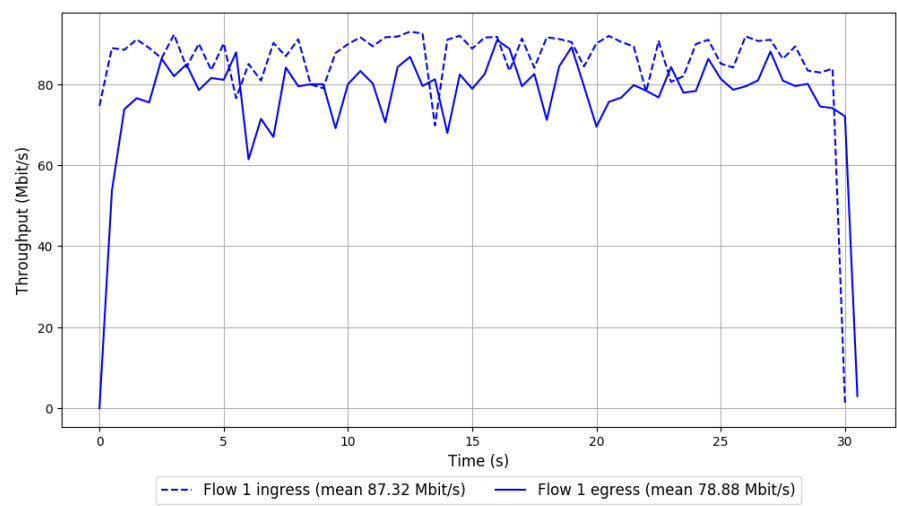
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 87.32 Mbit/s)   Flow 1 egress (mean 78.88 Mbit/s)

• Flow 1 (95th percentile 10.56 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2018-07-03 10:40:22
End at: 2018-07-03 10:40:52
Local clock offset: -3.334 ms
Remote clock offset: 4.007 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 22.621 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 28.12 Mbit/s
95th percentile per-packet one-way delay: 22.621 ms
Loss rate: 0.05%
```
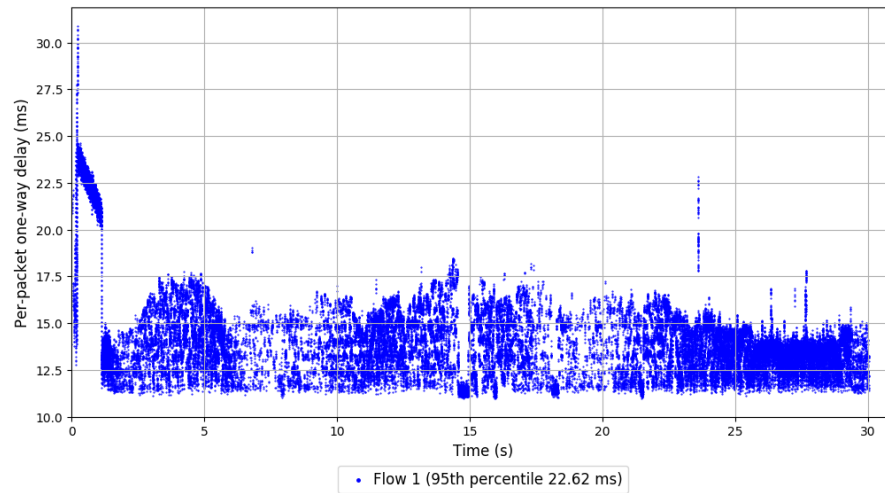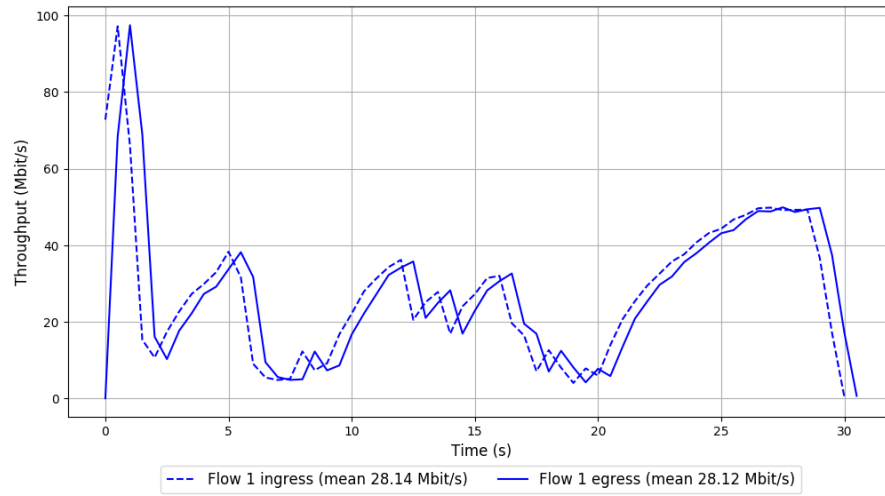
Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 28.14 Mbit/s) ---- Flow 1 egress (mean 28.12 Mbit/s) ——

• Flow 1 (95th percentile 22.62 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2018-07-03 10:59:47
End at: 2018-07-03 11:00:17
Local clock offset: -1.469 ms
Remote clock offset: 6.682 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 16.504 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 15.80 Mbit/s
95th percentile per-packet one-way delay: 16.504 ms
Loss rate: 0.22%
```
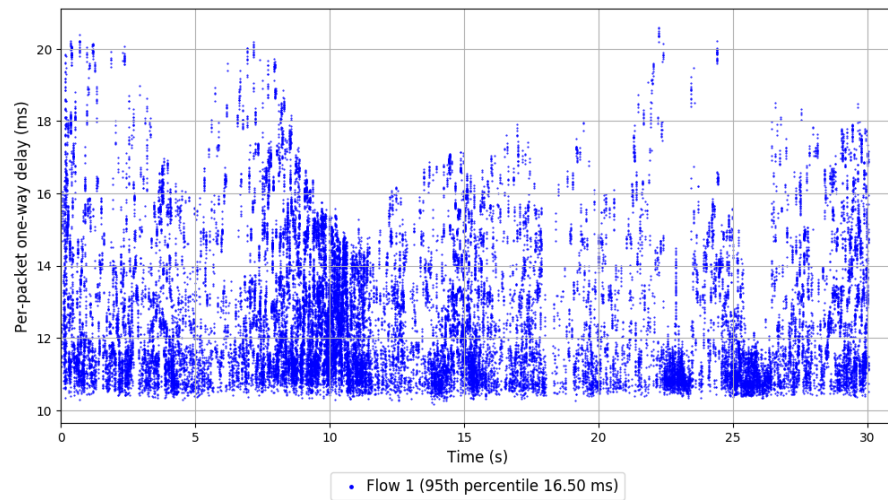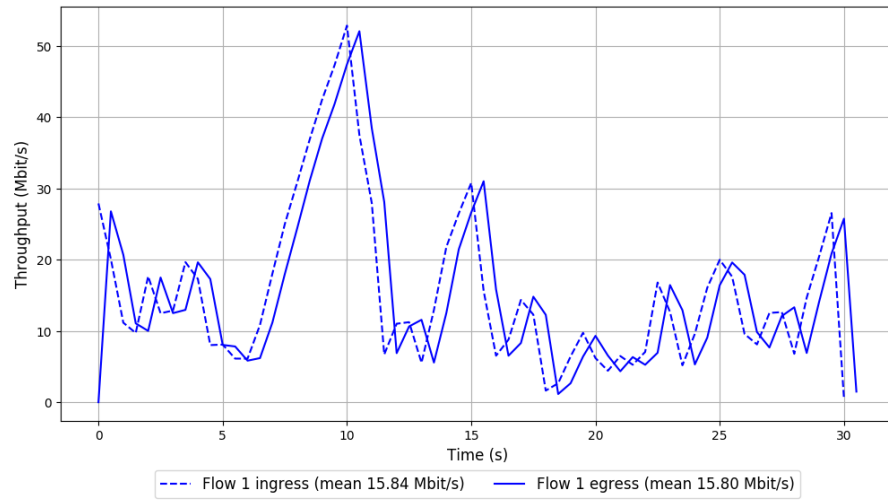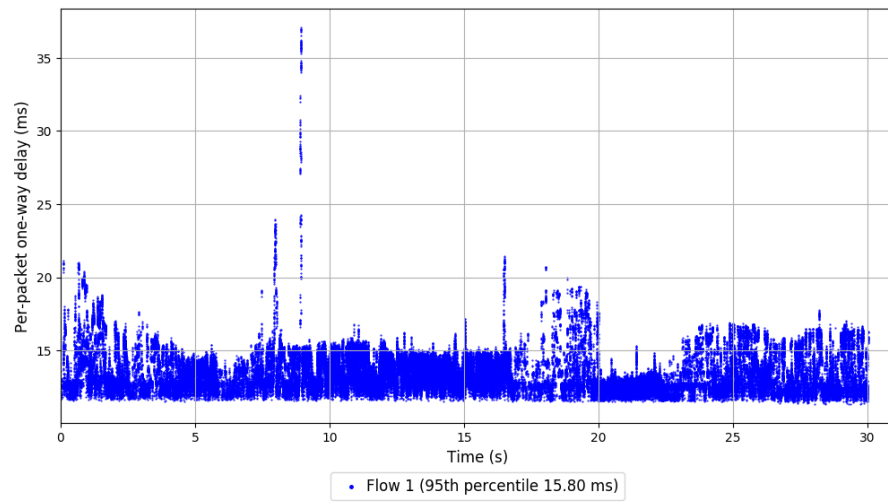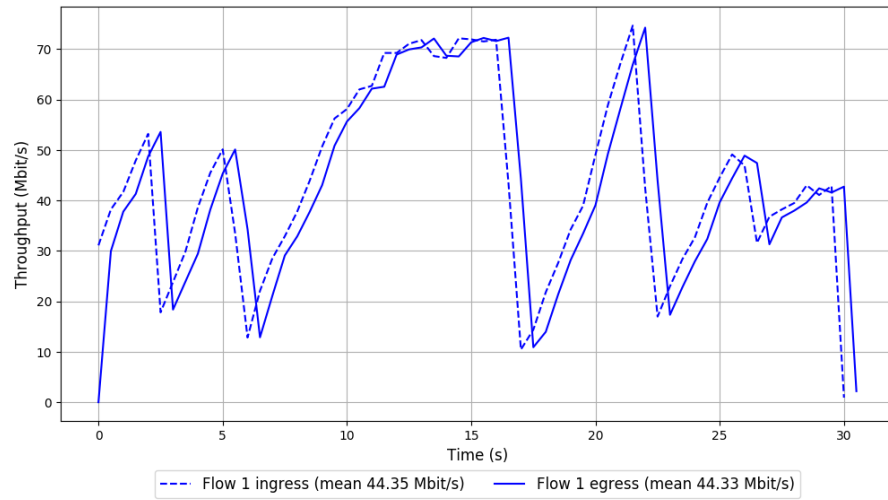
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-07-03 11:19:12
End at: 2018-07-03 11:19:42
Local clock offset: -8.267 ms
Remote clock offset: 6.222 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.33 Mbit/s
95th percentile per-packet one-way delay: 15.796 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 44.33 Mbit/s
95th percentile per-packet one-way delay: 15.796 ms
Loss rate: 0.04%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 44.35 Mbit/s) ----   Flow 1 egress (mean 44.33 Mbit/s) ——
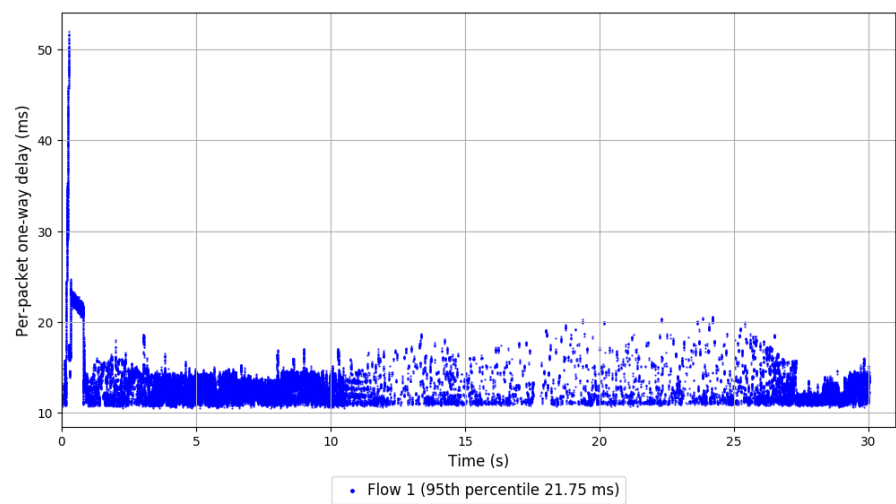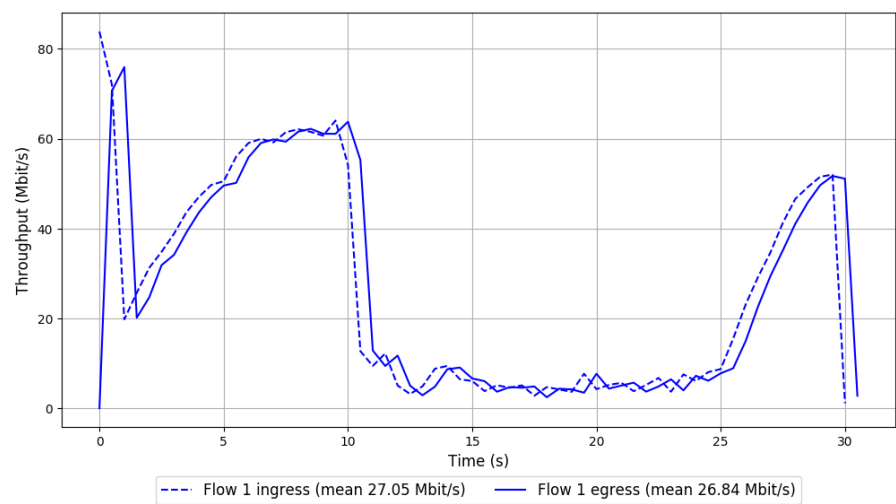

· Flow 1 (95th percentile 15.80 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2018-07-03 11:38:43
End at: 2018-07-03 11:39:13
Local clock offset: -7.118 ms
Remote clock offset: 4.469 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.84 Mbit/s
95th percentile per-packet one-way delay: 21.746 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 26.84 Mbit/s
95th percentile per-packet one-way delay: 21.746 ms
Loss rate: 0.79%
```
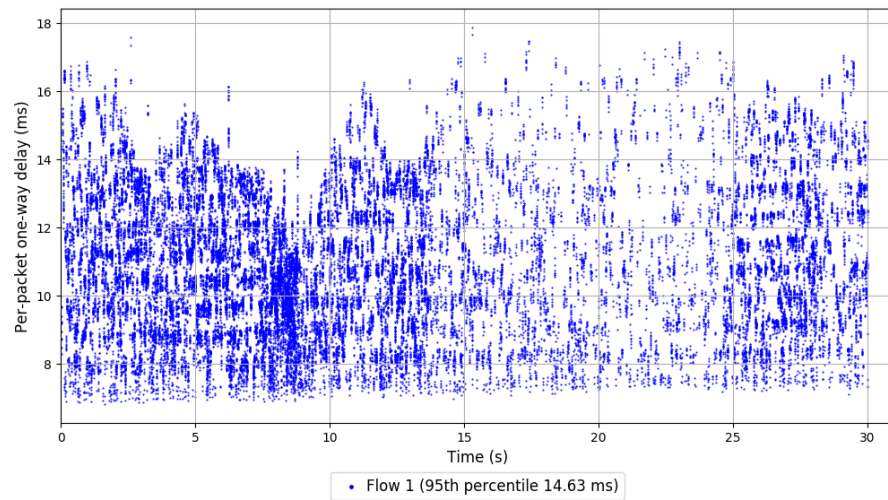
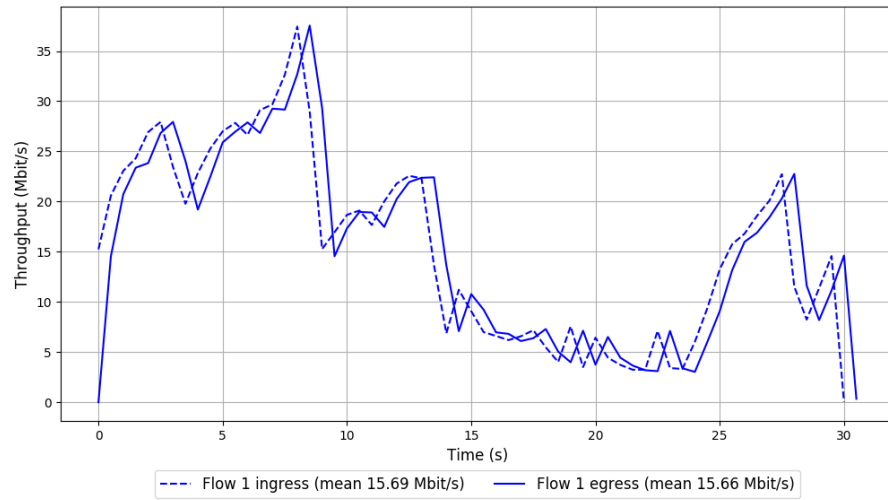## Run 4: Report of TCP Vegas — Data Link

271

```
Run 5: Statistics of TCP Vegas

Start at: 2018-07-03 11:57:54
End at: 2018-07-03 11:58:24
Local clock offset: -2.027 ms
Remote clock offset: -0.556 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 14.633 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 15.66 Mbit/s
95th percentile per-packet one-way delay: 14.633 ms
Loss rate: 0.16%
```

Run 5: Report of TCP Vegas — Data Link

- - - - Flow 1 ingress (mean 15.69 Mbit/s) ——— Flow 1 egress (mean 15.66 Mbit/s)

· Flow 1 (95th percentile 14.63 ms)

```
Run 6: Statistics of TCP Vegas

Start at: 2018-07-03 12:17:14
End at: 2018-07-03 12:17:44
Local clock offset: -6.716 ms
Remote clock offset: -7.96 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 10.966 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 10.61 Mbit/s
95th percentile per-packet one-way delay: 10.966 ms
Loss rate: 0.65%
```
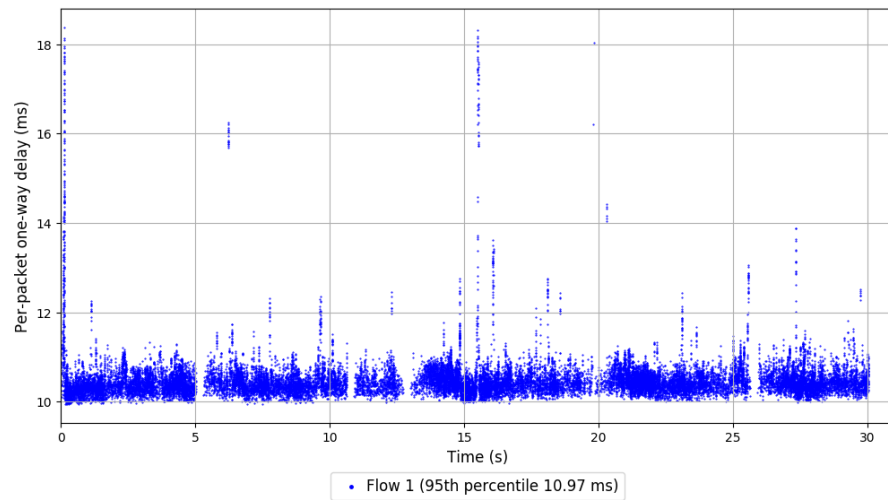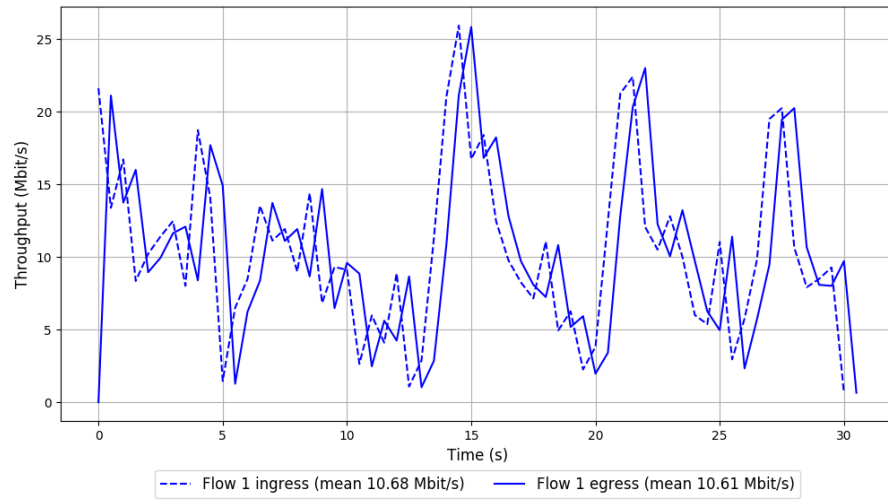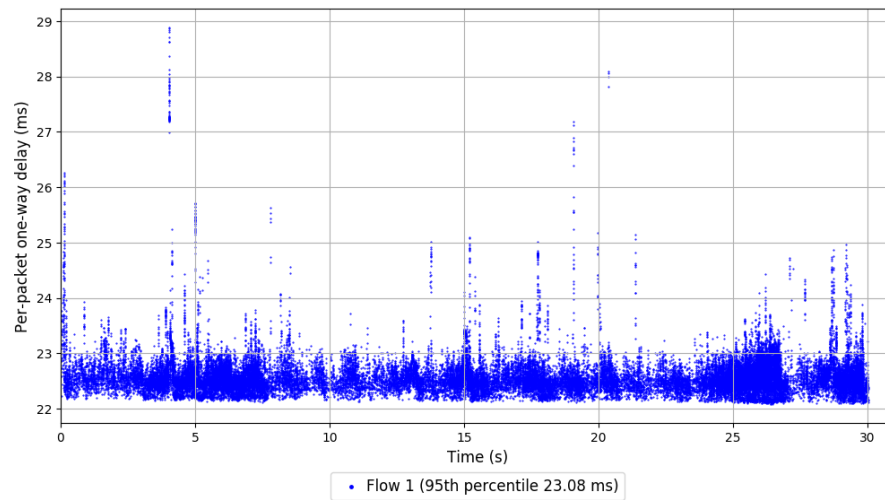
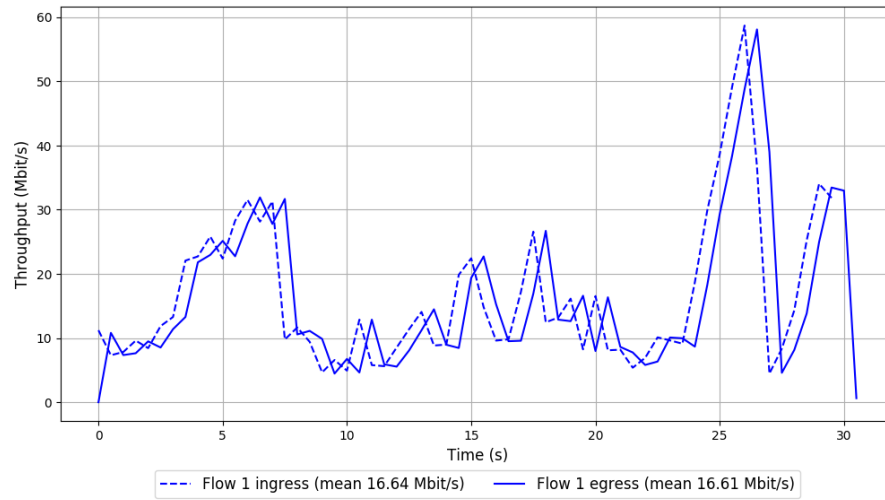Run 6: Report of TCP Vegas — Data Link

```
Run 7: Statistics of TCP Vegas

Start at: 2018-07-03 12:36:24
End at: 2018-07-03 12:36:54
Local clock offset: -20.267 ms
Remote clock offset: -8.644 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.61 Mbit/s
95th percentile per-packet one-way delay: 23.076 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 16.61 Mbit/s
95th percentile per-packet one-way delay: 23.076 ms
Loss rate: 0.18%
```

Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2018-07-03 12:55:37
End at: 2018-07-03 12:56:07
Local clock offset: -5.586 ms
Remote clock offset: -9.51 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.63 Mbit/s
95th percentile per-packet one-way delay: 12.817 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 17.63 Mbit/s
95th percentile per-packet one-way delay: 12.817 ms
Loss rate: 0.94%
```
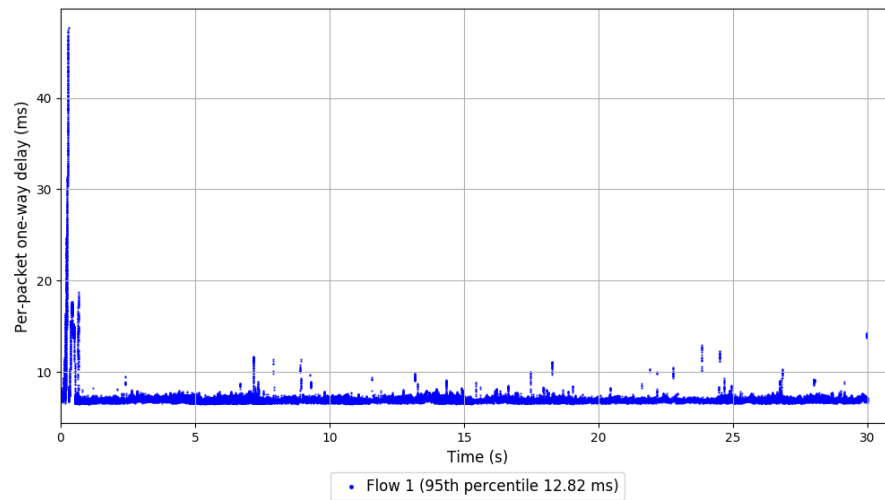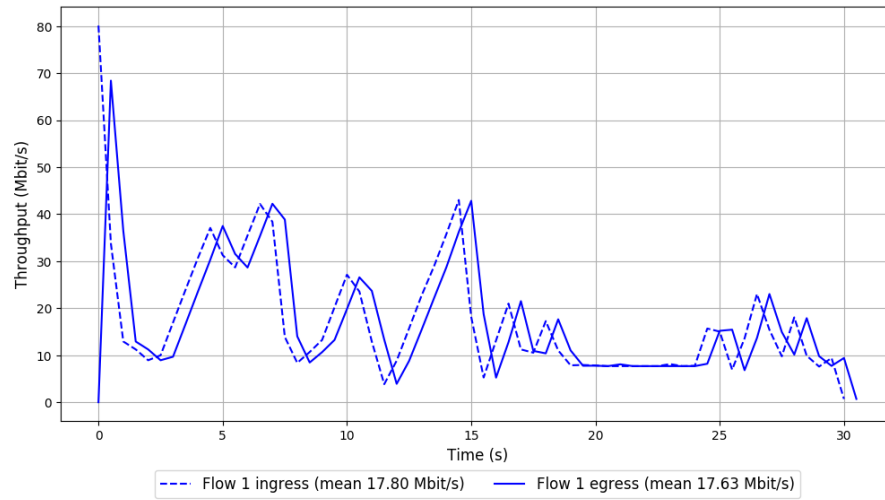
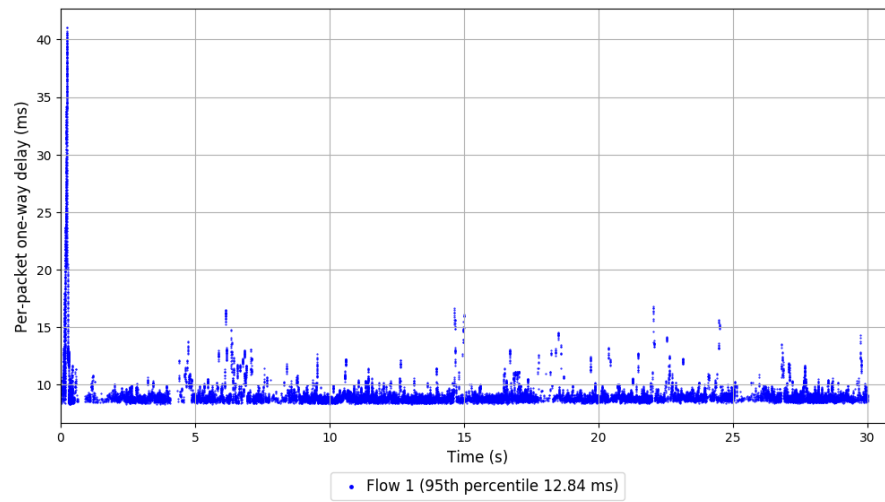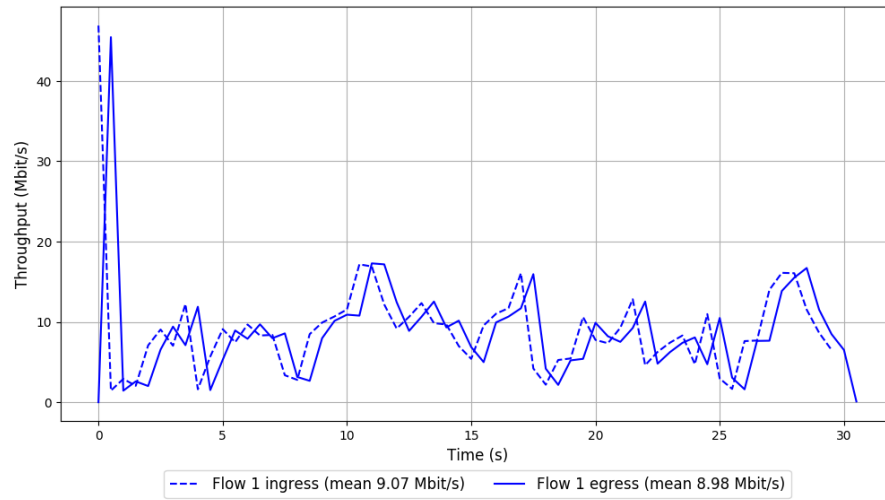Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2018-07-03 13:15:04
End at: 2018-07-03 13:15:34
Local clock offset: 0.573 ms
Remote clock offset: -7.993 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 12.844 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 12.844 ms
Loss rate: 0.94%
```

Run 9: Report of TCP Vegas — Data Link

```
Run 10: Statistics of TCP Vegas

Start at: 2018-07-03 13:34:20
End at: 2018-07-03 13:34:50
Local clock offset: 6.276 ms
Remote clock offset: -7.363 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.02 Mbit/s
95th percentile per-packet one-way delay: 18.891 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 20.02 Mbit/s
95th percentile per-packet one-way delay: 18.891 ms
Loss rate: 0.94%
```
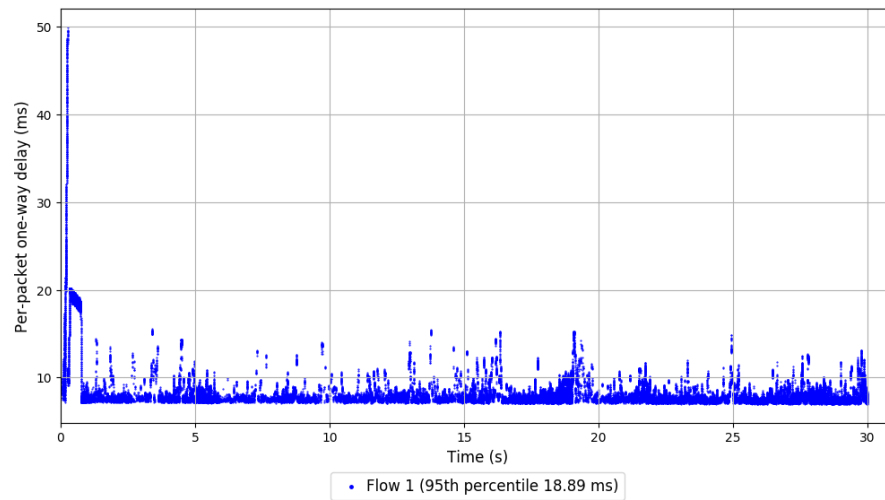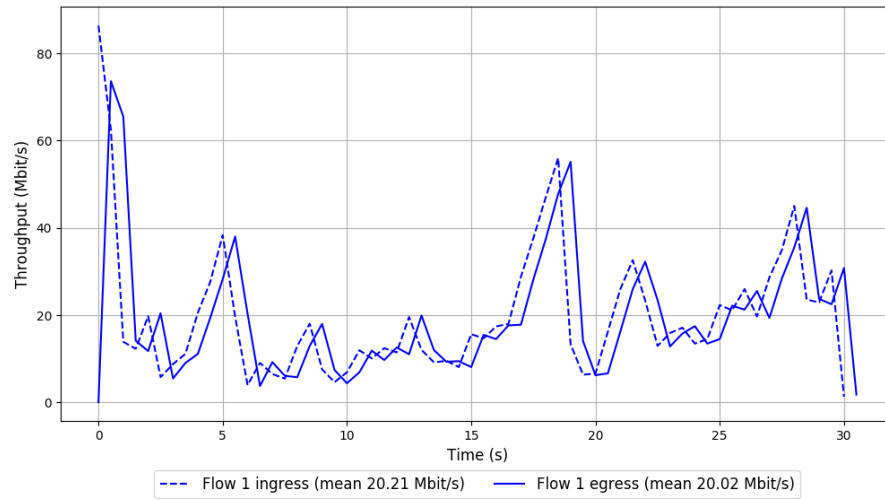
Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2018-07-03 10:38:02
End at: 2018-07-03 10:38:32
Local clock offset: -4.845 ms
Remote clock offset: 5.266 ms

# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.88 Mbit/s
95th percentile per-packet one-way delay: 37.406 ms
Loss rate: 10.78%
-- Flow 1:
Average throughput: 57.88 Mbit/s
95th percentile per-packet one-way delay: 37.406 ms
Loss rate: 10.78%
```
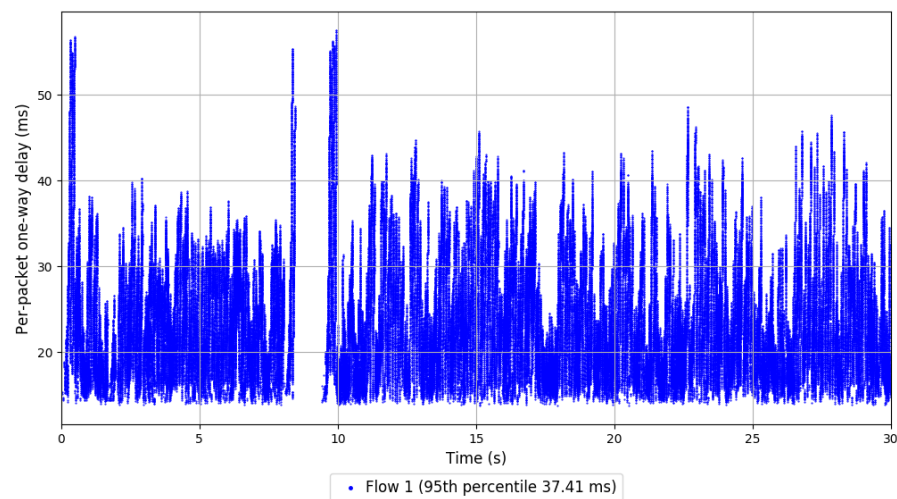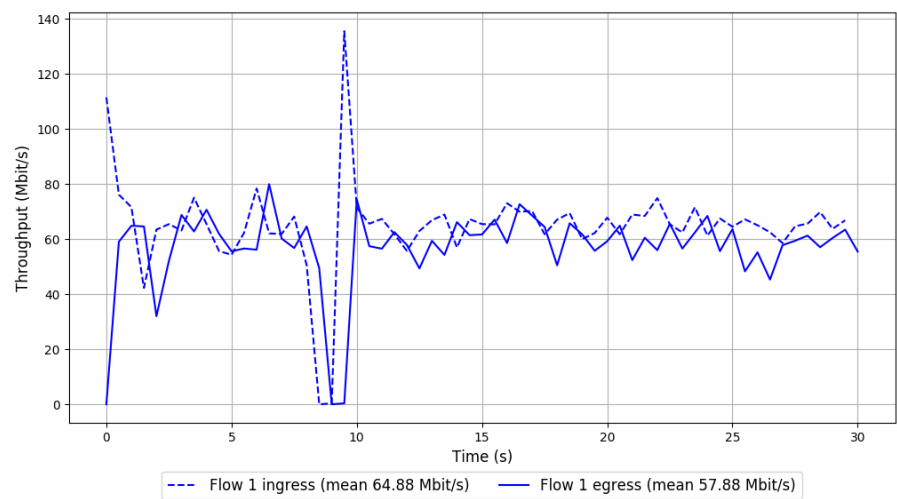
Run 1: Report of Verus — Data Link

Flow 1 ingress (mean 64.88 Mbit/s)   Flow 1 egress (mean 57.88 Mbit/s)

• Flow 1 (95th percentile 37.41 ms)

```
Run 2: Statistics of Verus

Start at: 2018-07-03 10:57:30
End at: 2018-07-03 10:58:00
Local clock offset: -1.309 ms
Remote clock offset: 6.771 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.96 Mbit/s
95th percentile per-packet one-way delay: 32.757 ms
Loss rate: 9.24%
-- Flow 1:
Average throughput: 57.96 Mbit/s
95th percentile per-packet one-way delay: 32.757 ms
Loss rate: 9.24%
```
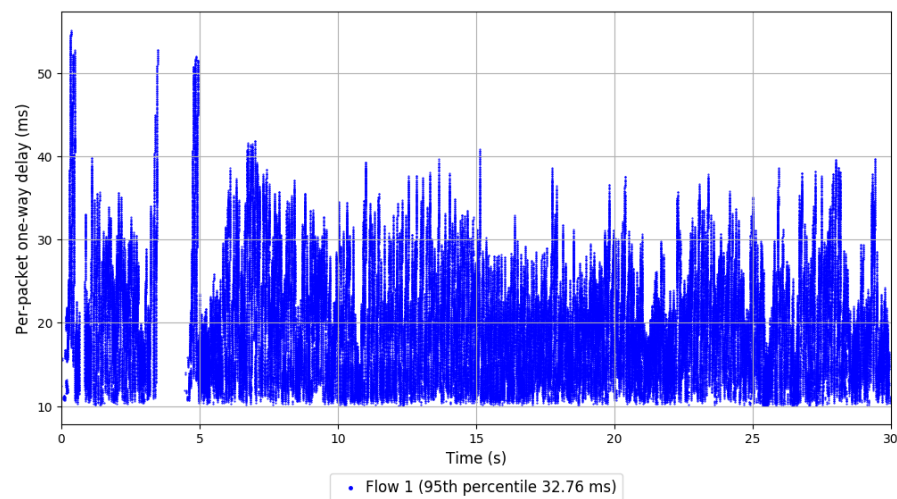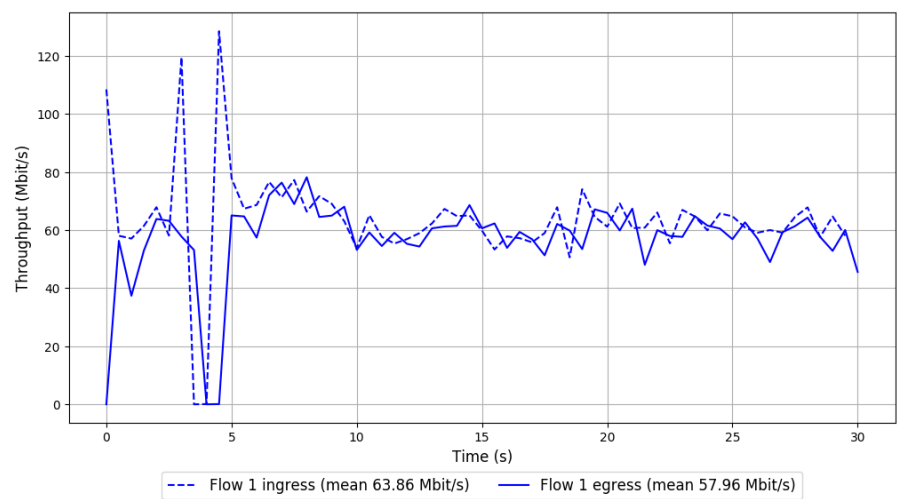
Run 2: Report of Verus — Data Link

Flow 1 ingress (mean 63.86 Mbit/s)   Flow 1 egress (mean 57.96 Mbit/s)

• Flow 1 (95th percentile 32.76 ms)

```
Run 3: Statistics of Verus

Start at: 2018-07-03 11:16:56
End at: 2018-07-03 11:17:26
Local clock offset: -6.493 ms
Remote clock offset: 5.154 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 33.690 ms
Loss rate: 5.50%
-- Flow 1:
Average throughput: 66.28 Mbit/s
95th percentile per-packet one-way delay: 33.690 ms
Loss rate: 5.50%
```
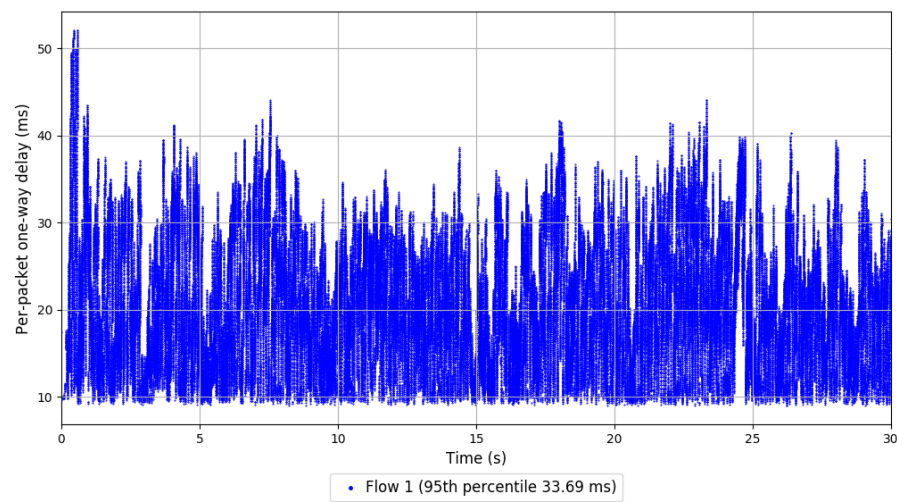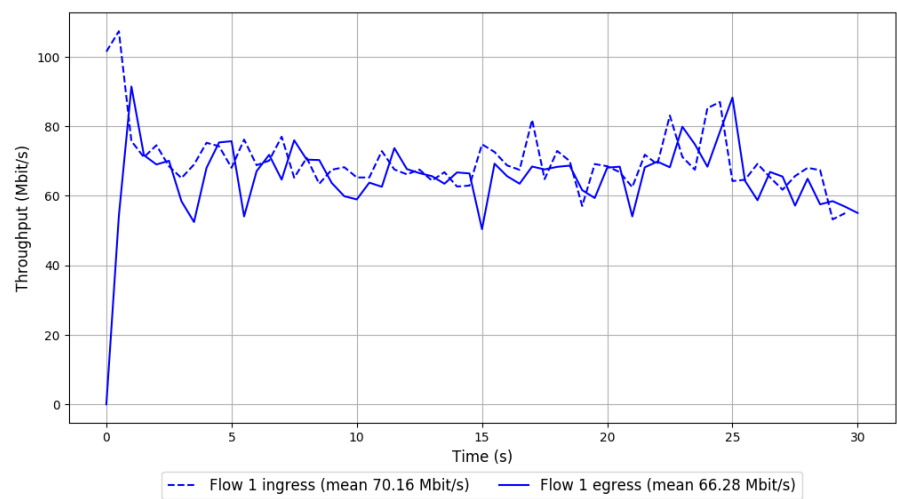
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-07-03 11:36:29
End at: 2018-07-03 11:36:59
Local clock offset: -9.138 ms
Remote clock offset: 3.684 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.53 Mbit/s
95th percentile per-packet one-way delay: 34.809 ms
Loss rate: 9.41%
-- Flow 1:
Average throughput: 63.53 Mbit/s
95th percentile per-packet one-way delay: 34.809 ms
Loss rate: 9.41%
```
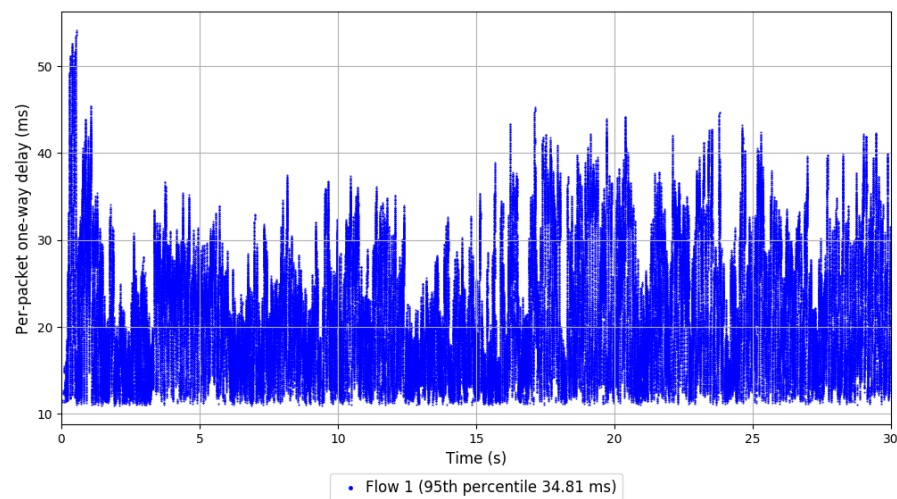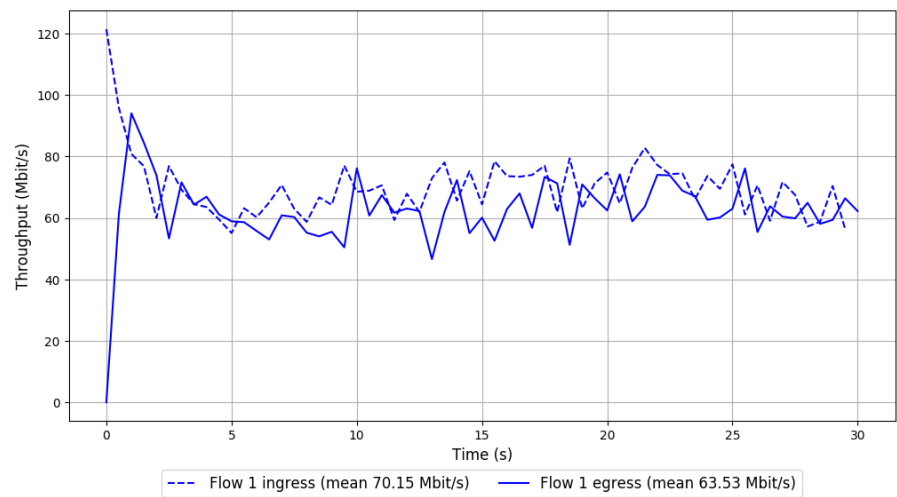
Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 70.15 Mbit/s)   Flow 1 egress (mean 63.53 Mbit/s)

Flow 1 (95th percentile 34.81 ms)

```
Run 5: Statistics of Verus

Start at: 2018-07-03 11:55:41
End at: 2018-07-03 11:56:11
Local clock offset: -1.071 ms
Remote clock offset: 2.549 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.86 Mbit/s
95th percentile per-packet one-way delay: 31.185 ms
Loss rate: 4.40%
-- Flow 1:
Average throughput: 71.86 Mbit/s
95th percentile per-packet one-way delay: 31.185 ms
Loss rate: 4.40%
```
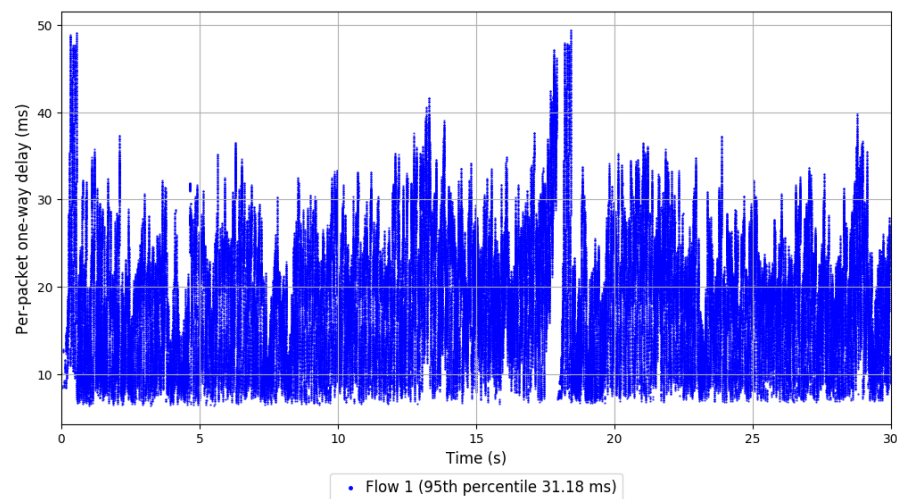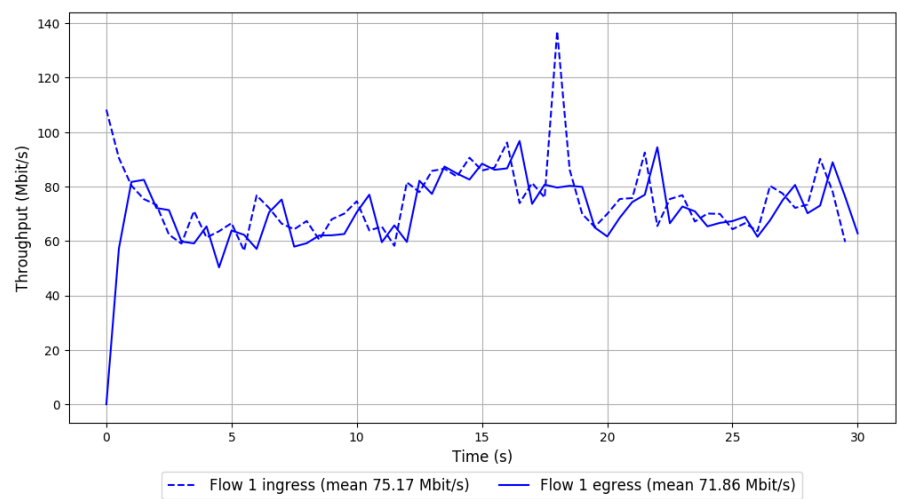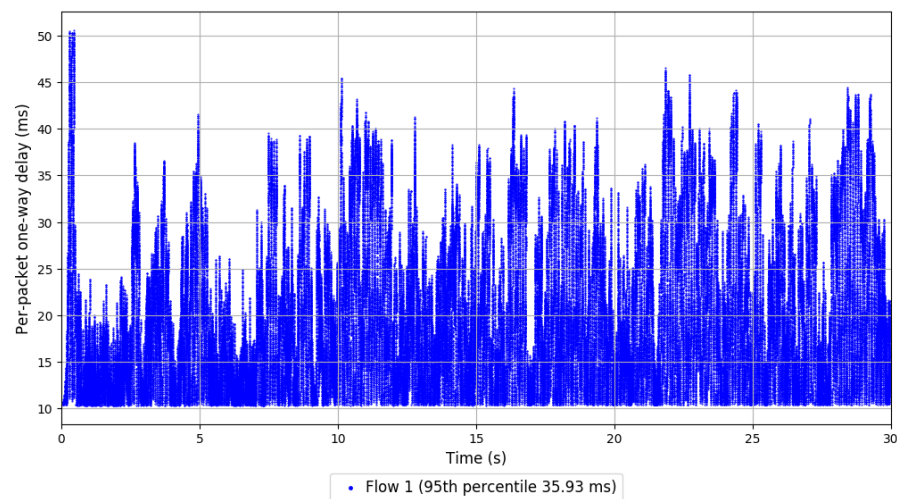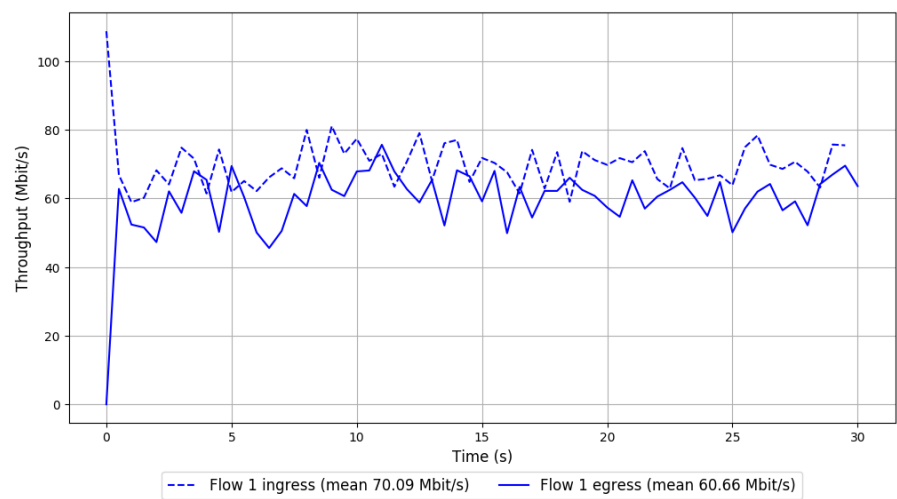
Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2018-07-03 12:14:55
End at: 2018-07-03 12:15:25
Local clock offset: -8.094 ms
Remote clock offset: -8.559 ms


# Below is generated by plot.py at 2018-07-03 13:52:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 35.931 ms
Loss rate: 13.45%
-- Flow 1:
Average throughput: 60.66 Mbit/s
95th percentile per-packet one-way delay: 35.931 ms
Loss rate: 13.45%
```

Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 70.09 Mbit/s) --- Flow 1 egress (mean 60.66 Mbit/s)
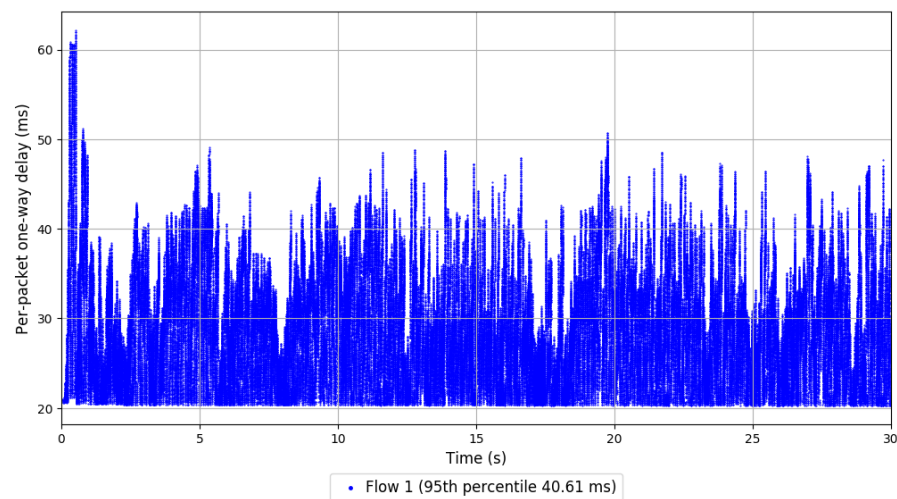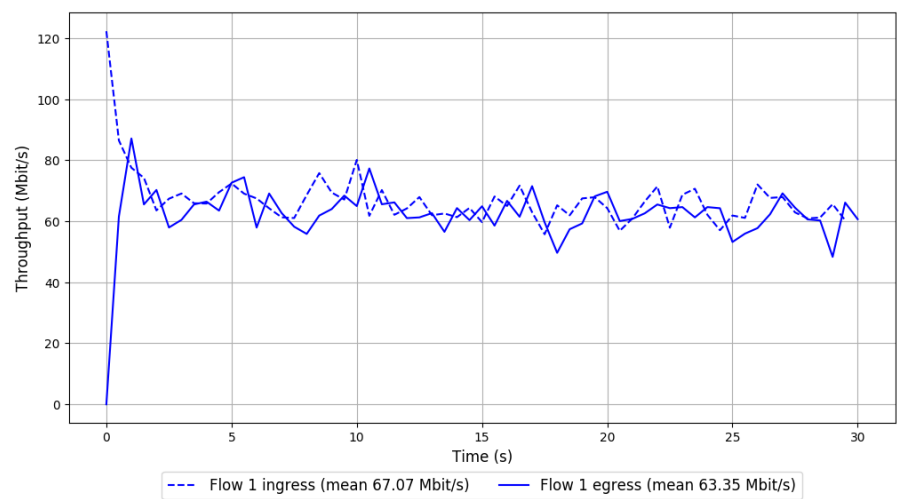

Flow 1 (95th percentile 35.93 ms)

```
Run 7: Statistics of Verus

Start at: 2018-07-03 12:34:11
End at: 2018-07-03 12:34:41
Local clock offset: -18.567 ms
Remote clock offset: -9.131 ms


# Below is generated by plot.py at 2018-07-03 13:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.35 Mbit/s
95th percentile per-packet one-way delay: 40.611 ms
Loss rate: 5.50%
-- Flow 1:
Average throughput: 63.35 Mbit/s
95th percentile per-packet one-way delay: 40.611 ms
Loss rate: 5.50%
```

Run 7: Report of Verus — Data Link

Flow 1 ingress (mean 67.07 Mbit/s)   Flow 1 egress (mean 63.35 Mbit/s)

Flow 1 (95th percentile 40.61 ms)

297

```
Run 8: Statistics of Verus

Start at: 2018-07-03 12:53:24
End at: 2018-07-03 12:53:54
Local clock offset: -5.401 ms
Remote clock offset: -9.48 ms


# Below is generated by plot.py at 2018-07-03 13:52:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.96 Mbit/s
95th percentile per-packet one-way delay: 26.594 ms
Loss rate: 3.77%
-- Flow 1:
Average throughput: 67.96 Mbit/s
95th percentile per-packet one-way delay: 26.594 ms
Loss rate: 3.77%
```
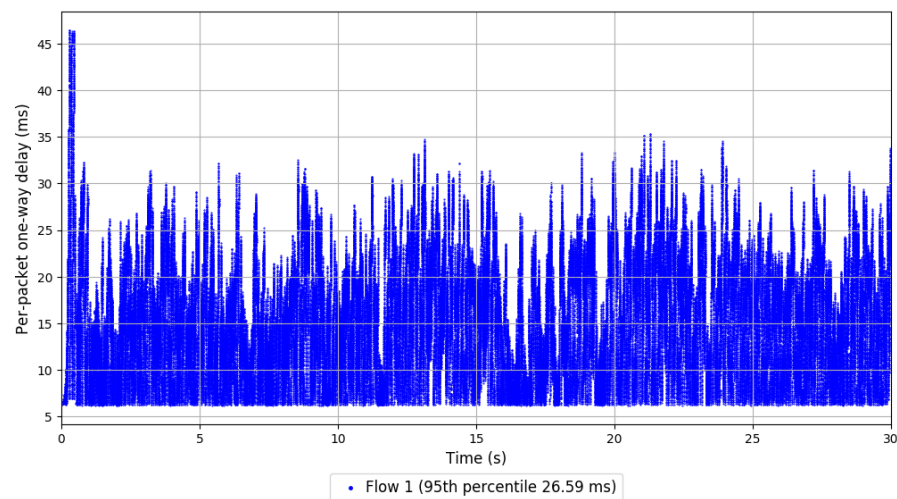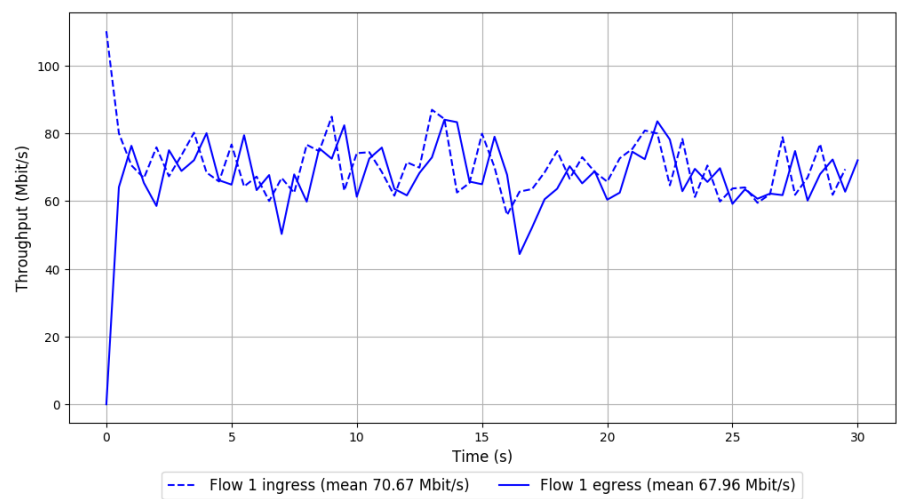
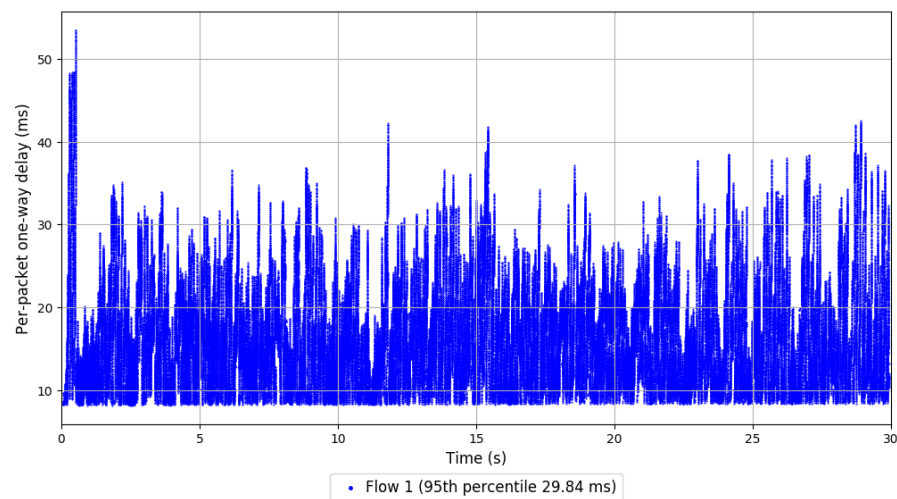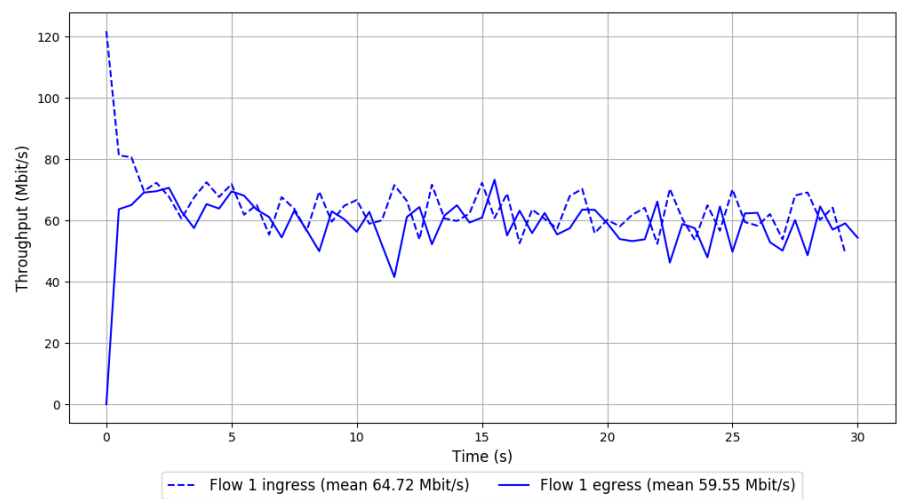## Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2018-07-03 13:12:51
End at: 2018-07-03 13:13:21
Local clock offset: -0.037 ms
Remote clock offset: -7.877 ms


# Below is generated by plot.py at 2018-07-03 13:52:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.55 Mbit/s
95th percentile per-packet one-way delay: 29.845 ms
Loss rate: 7.98%
-- Flow 1:
Average throughput: 59.55 Mbit/s
95th percentile per-packet one-way delay: 29.845 ms
Loss rate: 7.98%
```

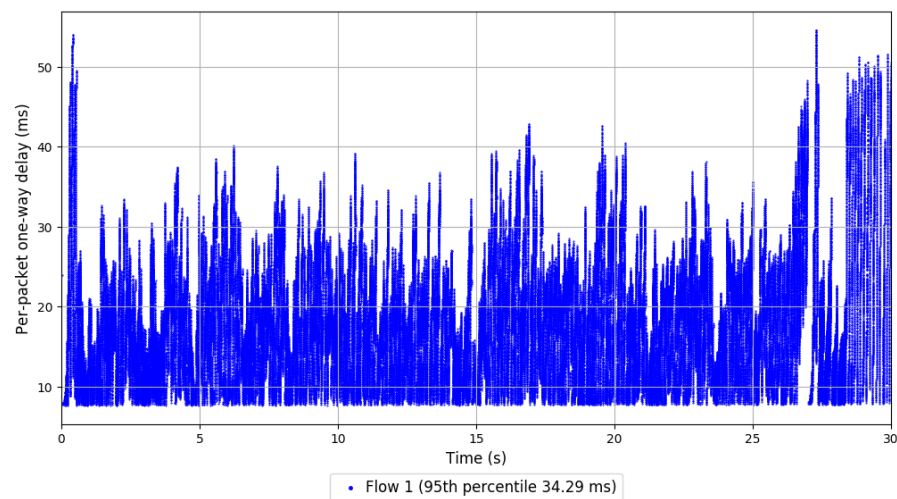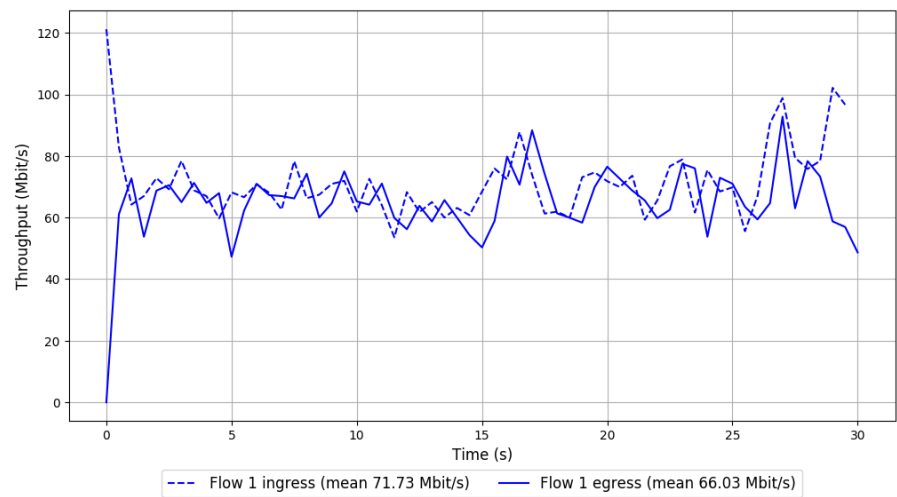## Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2018-07-03 13:32:08
End at: 2018-07-03 13:32:38
Local clock offset: 6.01 ms
Remote clock offset: -7.388 ms


# Below is generated by plot.py at 2018-07-03 13:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.03 Mbit/s
95th percentile per-packet one-way delay: 34.288 ms
Loss rate: 7.91%
-- Flow 1:
Average throughput: 66.03 Mbit/s
95th percentile per-packet one-way delay: 34.288 ms
Loss rate: 7.91%
```

Run 10: Report of Verus — Data Link

Flow 1 ingress (mean 71.73 Mbit/s)   Flow 1 egress (mean 66.03 Mbit/s)

• Flow 1 (95th percentile 34.29 ms)

```
Run 1: Statistics of PCC-Vivace

Start at: 2018-07-03 10:25:15
End at: 2018-07-03 10:25:45
Local clock offset: -5.08 ms
Remote clock offset: -0.853 ms


# Below is generated by plot.py at 2018-07-03 13:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 11.192 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 11.192 ms
Loss rate: 3.58%
```
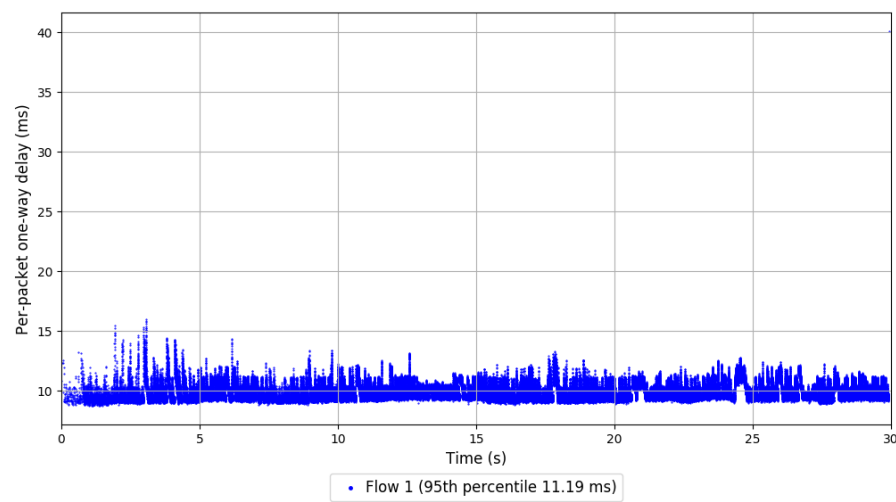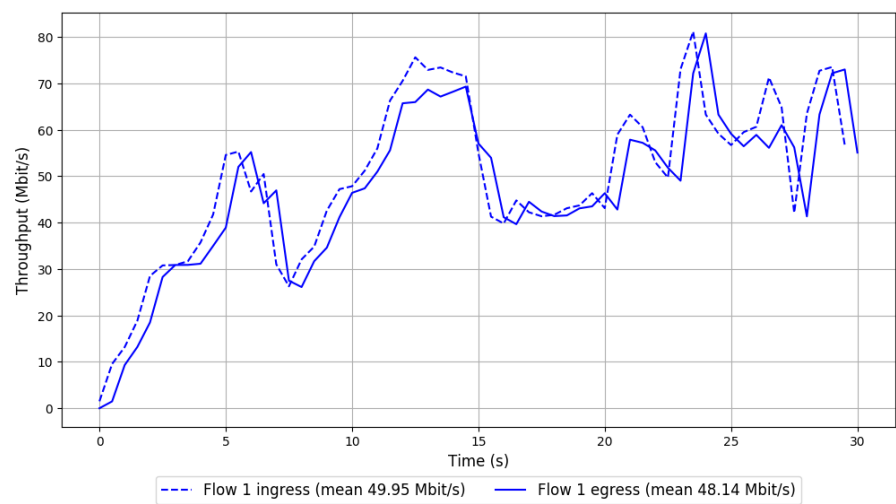
Run 1: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 49.95 Mbit/s) --- Flow 1 egress (mean 48.14 Mbit/s)

Flow 1 (95th percentile 11.19 ms)

```
Run 2: Statistics of PCC-Vivace

Start at: 2018-07-03 10:44:51
End at: 2018-07-03 10:45:21
Local clock offset: -4.511 ms
Remote clock offset: 5.137 ms


# Below is generated by plot.py at 2018-07-03 13:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 20.749 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 20.749 ms
Loss rate: 0.44%
```
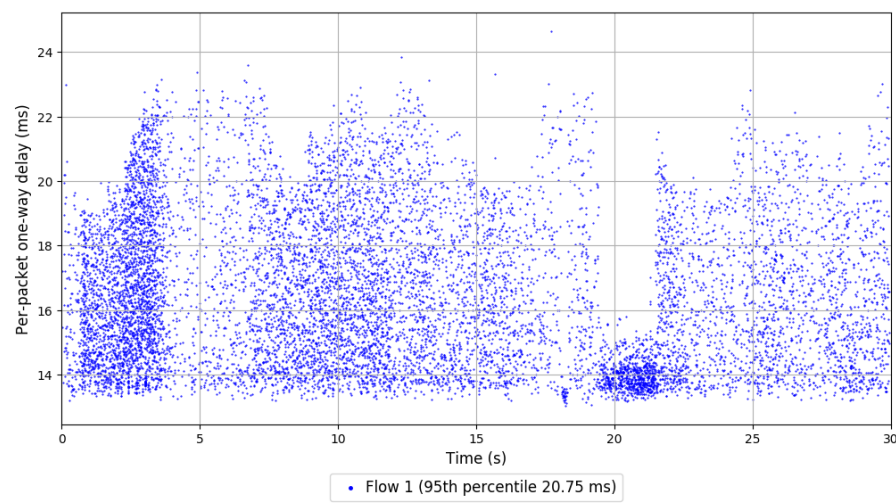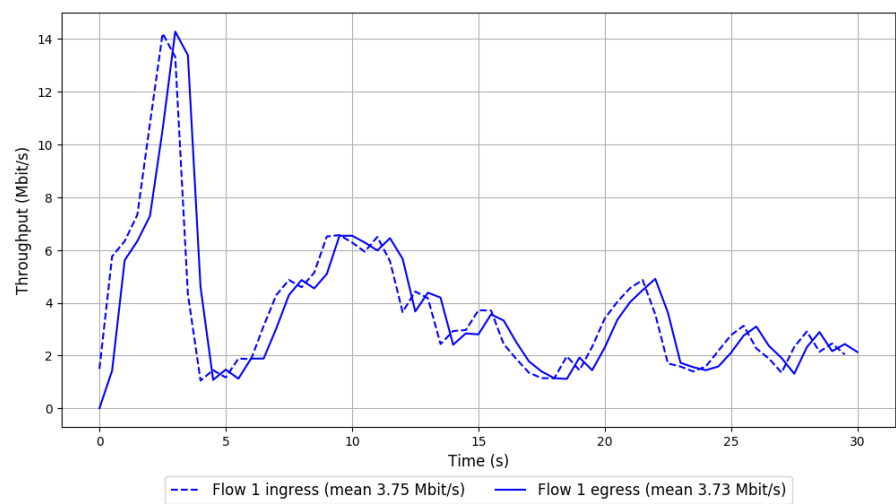
Run 2: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 3.75 Mbit/s) — — —   Flow 1 egress (mean 3.73 Mbit/s) ———

Flow 1 (95th percentile 20.75 ms)

```
Run 3: Statistics of PCC-Vivace

Start at: 2018-07-03 11:04:17
End at: 2018-07-03 11:04:47
Local clock offset: -2.09 ms
Remote clock offset: 3.552 ms


# Below is generated by plot.py at 2018-07-03 13:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.32 Mbit/s
95th percentile per-packet one-way delay: 11.457 ms
Loss rate: 5.20%
-- Flow 1:
Average throughput: 26.32 Mbit/s
95th percentile per-packet one-way delay: 11.457 ms
Loss rate: 5.20%
```
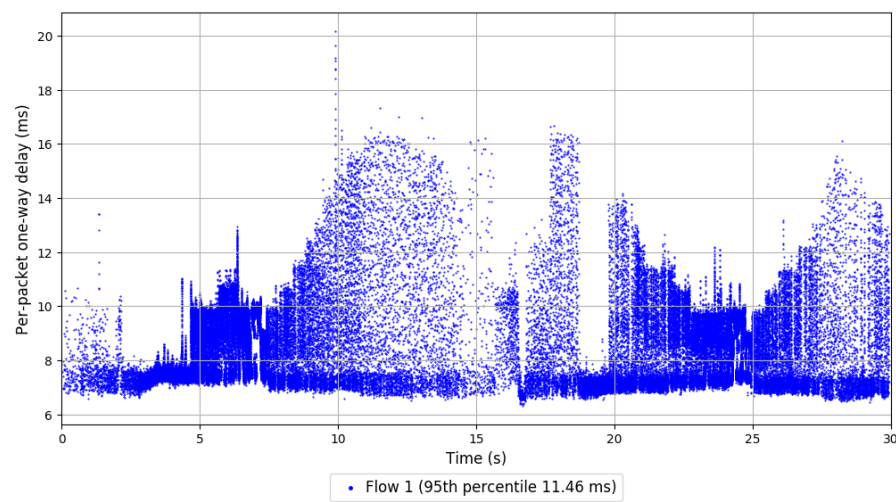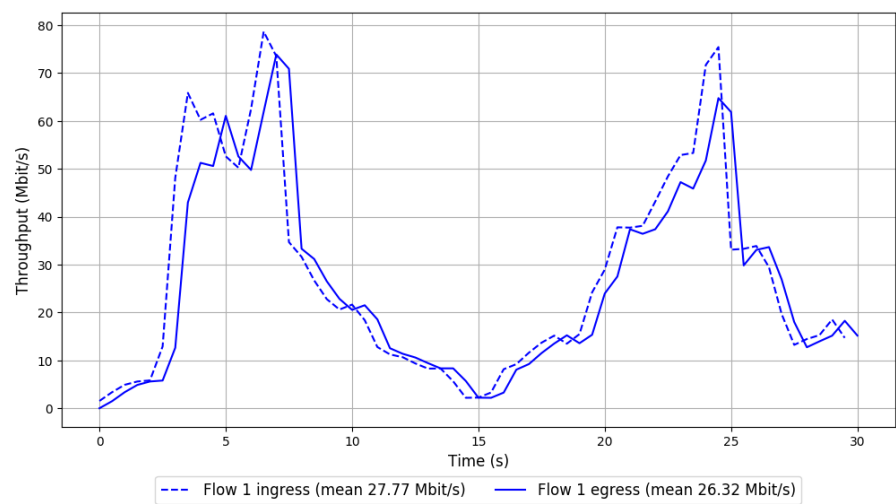
Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2018-07-03 11:23:44
End at: 2018-07-03 11:24:14
Local clock offset: -8.598 ms
Remote clock offset: 4.544 ms

# Below is generated by plot.py at 2018-07-03 13:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 18.400 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 18.400 ms
Loss rate: 0.41%
```
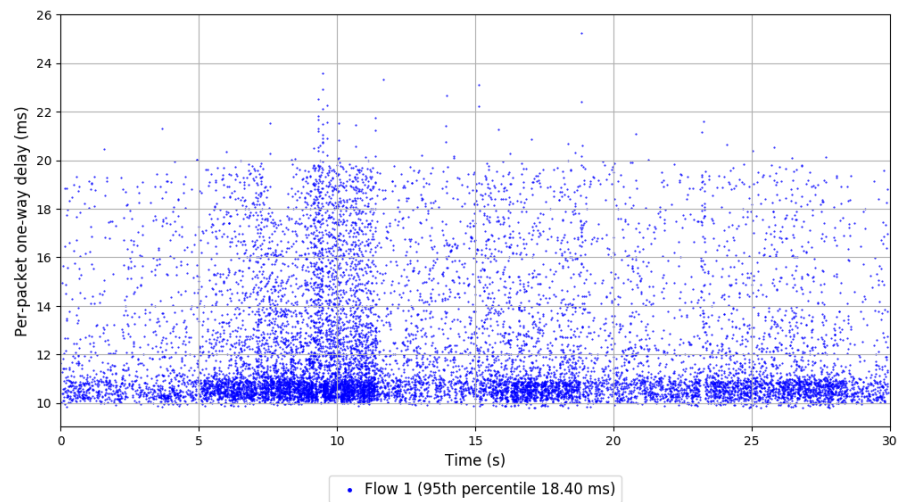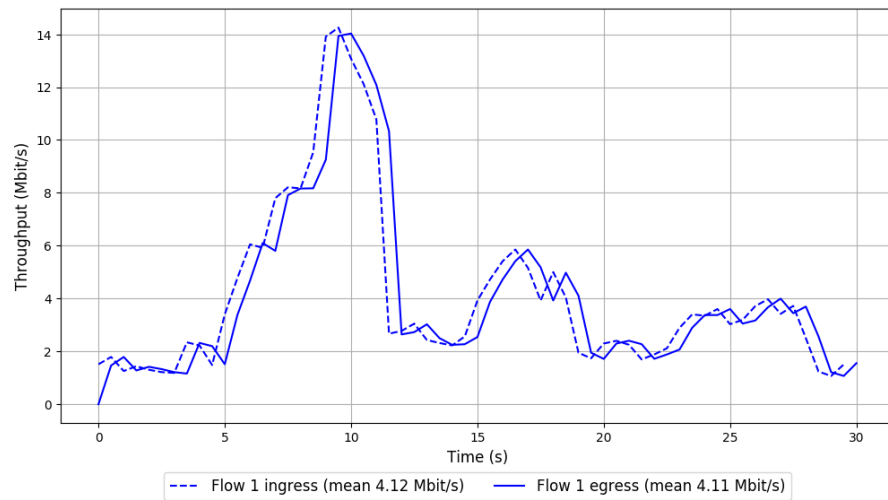
Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 4.12 Mbit/s)   Flow 1 egress (mean 4.11 Mbit/s)

Flow 1 (95th percentile 18.40 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2018-07-03 11:43:08
End at: 2018-07-03 11:43:38
Local clock offset: -2.223 ms
Remote clock offset: 3.043 ms


# Below is generated by plot.py at 2018-07-03 13:53:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.40 Mbit/s
95th percentile per-packet one-way delay: 9.157 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 61.40 Mbit/s
95th percentile per-packet one-way delay: 9.157 ms
Loss rate: 1.56%
```
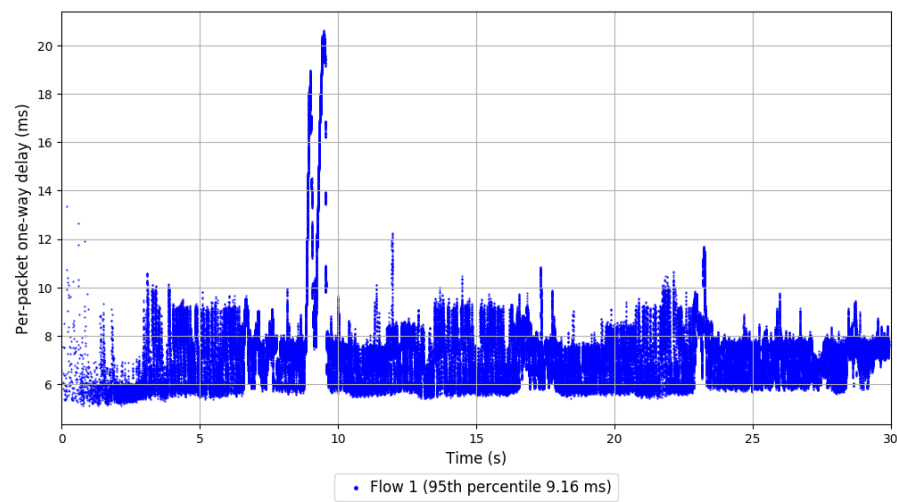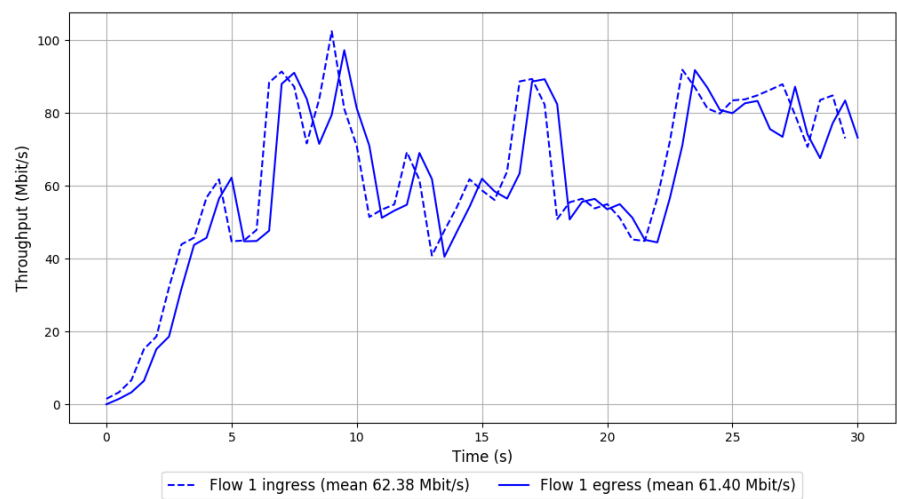
Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 62.38 Mbit/s) --- Flow 1 egress (mean 61.40 Mbit/s)

Flow 1 (95th percentile 9.16 ms)

```
Run 6: Statistics of PCC-Vivace

Start at: 2018-07-03 12:02:18
End at: 2018-07-03 12:02:48
Local clock offset: -4.752 ms
Remote clock offset: -3.411 ms

# Below is generated by plot.py at 2018-07-03 13:53:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.06 Mbit/s
95th percentile per-packet one-way delay: 11.705 ms
Loss rate: 6.43%
-- Flow 1:
Average throughput: 47.06 Mbit/s
95th percentile per-packet one-way delay: 11.705 ms
Loss rate: 6.43%
```
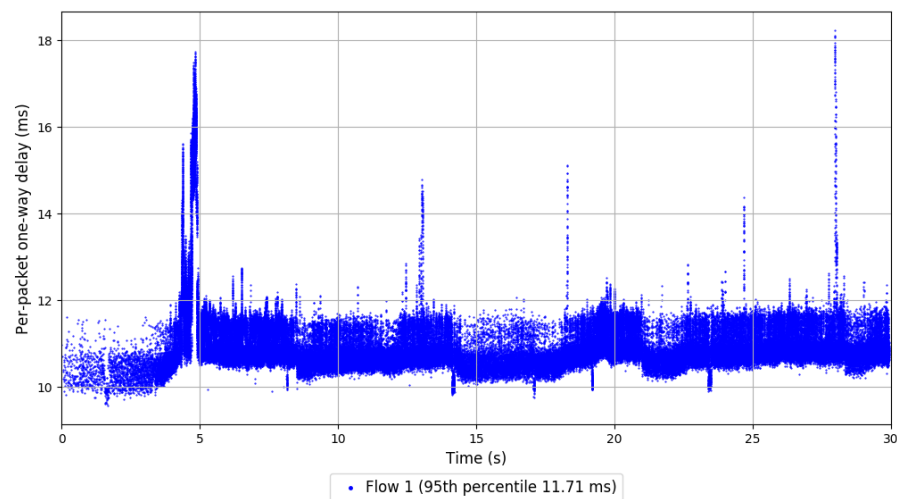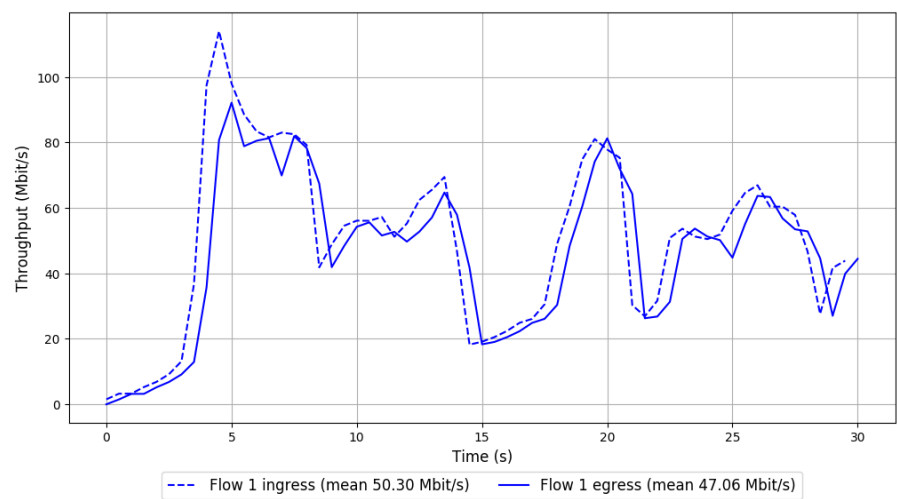
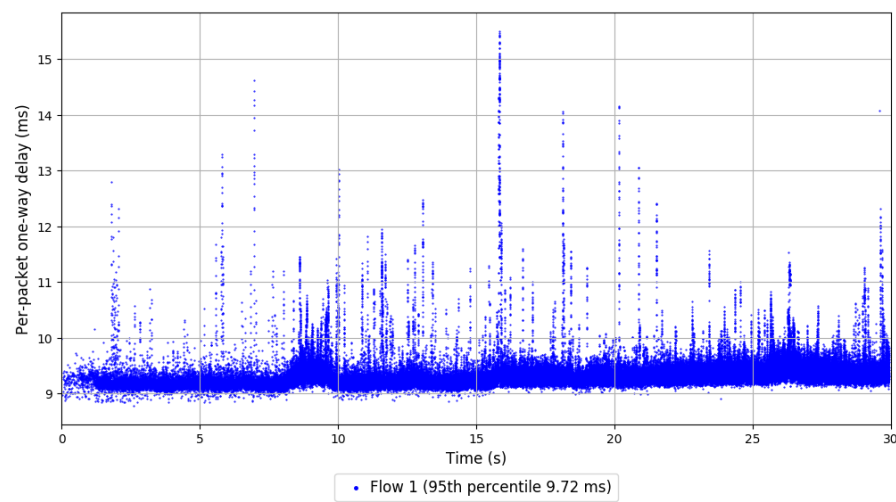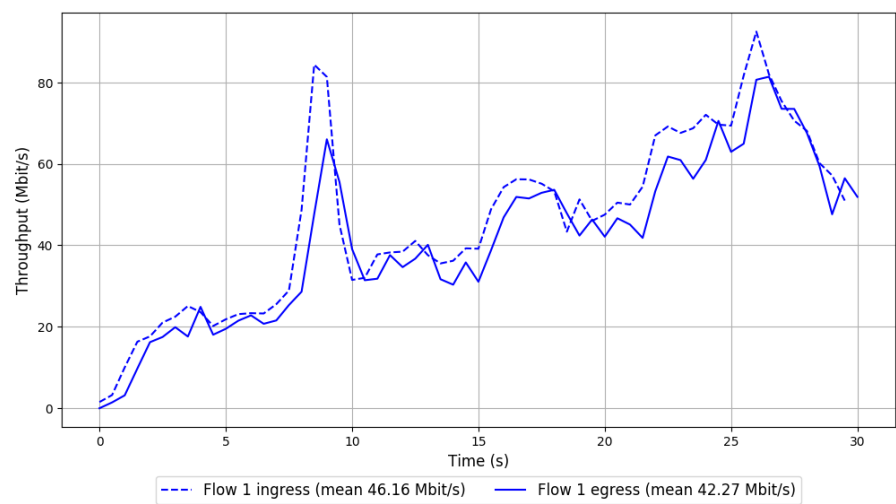# Run 6: Report of PCC-Vivace — Data Link

```
Run 7: Statistics of PCC-Vivace

Start at: 2018-07-03 12:21:39
End at: 2018-07-03 12:22:09
Local clock offset: -6.861 ms
Remote clock offset: -9.802 ms


# Below is generated by plot.py at 2018-07-03 13:53:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 9.722 ms
Loss rate: 8.43%
-- Flow 1:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 9.722 ms
Loss rate: 8.43%
```

Run 7: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 46.16 Mbit/s)   Flow 1 egress (mean 42.27 Mbit/s)
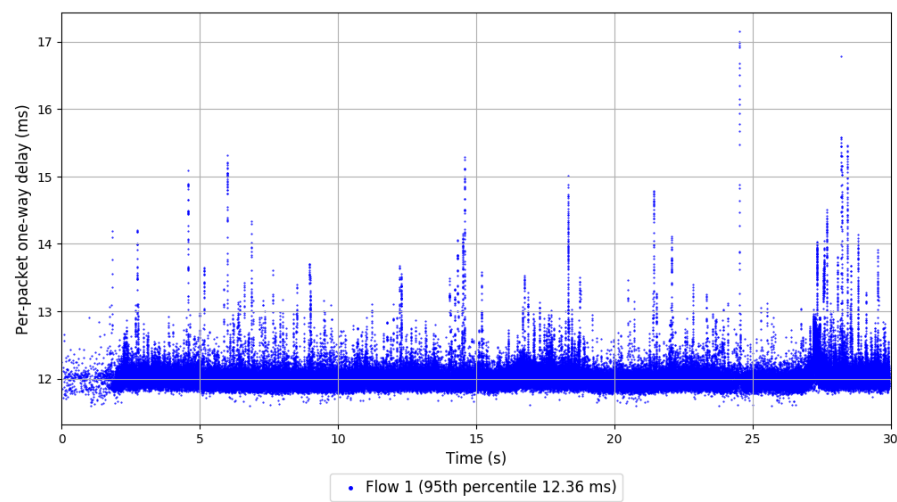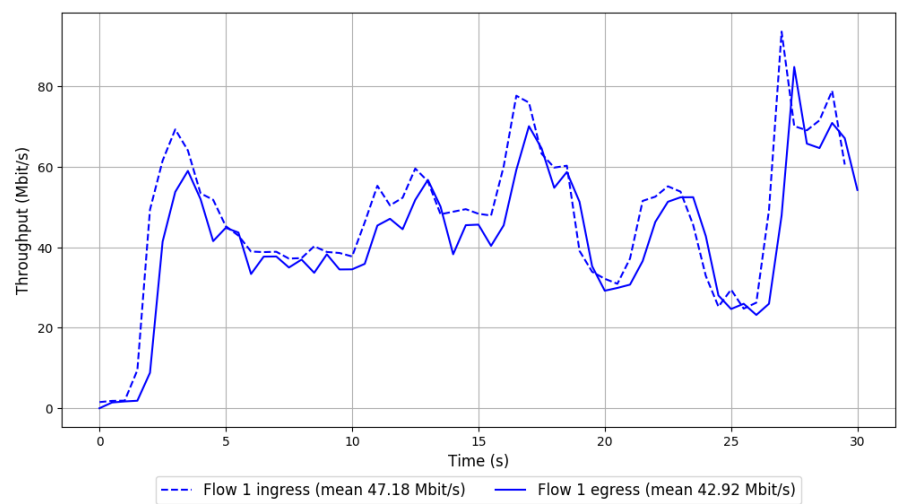

• Flow 1 (95th percentile 9.72 ms)

```
Run 8: Statistics of PCC-Vivace

Start at: 2018-07-03 12:40:53
End at: 2018-07-03 12:41:23
Local clock offset: -10.653 ms
Remote clock offset: -8.919 ms


# Below is generated by plot.py at 2018-07-03 13:53:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 12.356 ms
Loss rate: 9.05%
-- Flow 1:
Average throughput: 42.92 Mbit/s
95th percentile per-packet one-way delay: 12.356 ms
Loss rate: 9.05%
```

Run 8: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 47.18 Mbit/s) ---- Flow 1 egress (mean 42.92 Mbit/s)

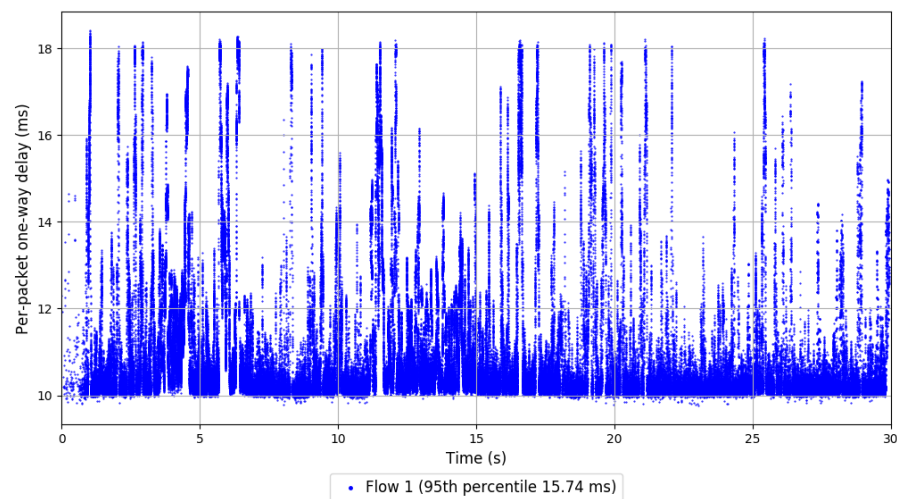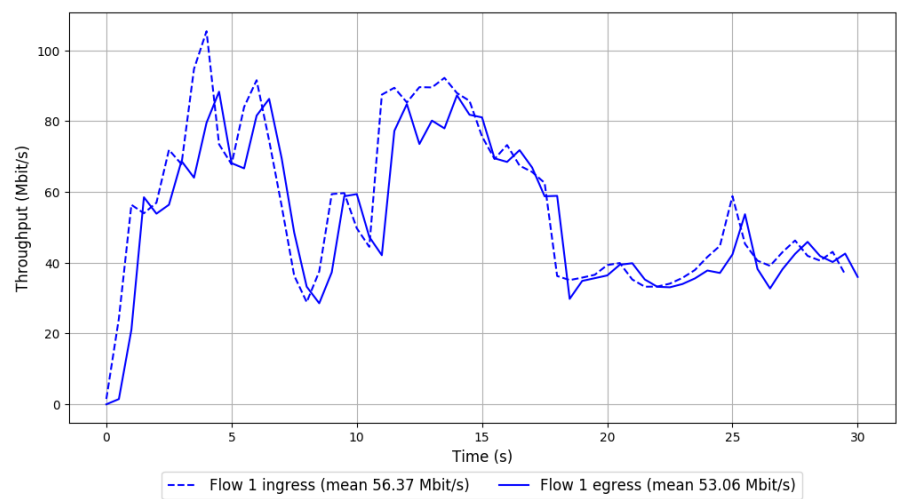

• Flow 1 (95th percentile 12.36 ms)

```
Run 9: Statistics of PCC-Vivace

Start at: 2018-07-03 13:00:08
End at: 2018-07-03 13:00:38
Local clock offset: -7.827 ms
Remote clock offset: -8.499 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 15.740 ms
Loss rate: 5.88%
-- Flow 1:
Average throughput: 53.06 Mbit/s
95th percentile per-packet one-way delay: 15.740 ms
Loss rate: 5.88%
```

Run 9: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 56.37 Mbit/s)   Flow 1 egress (mean 53.06 Mbit/s)

Flow 1 (95th percentile 15.74 ms)

```
Run 10: Statistics of PCC-Vivace

Start at: 2018-07-03 13:19:30
End at: 2018-07-03 13:20:00
Local clock offset: 4.094 ms
Remote clock offset: -8.0 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 10.213 ms
Loss rate: 4.41%
-- Flow 1:
Average throughput: 42.07 Mbit/s
95th percentile per-packet one-way delay: 10.213 ms
Loss rate: 4.41%
```
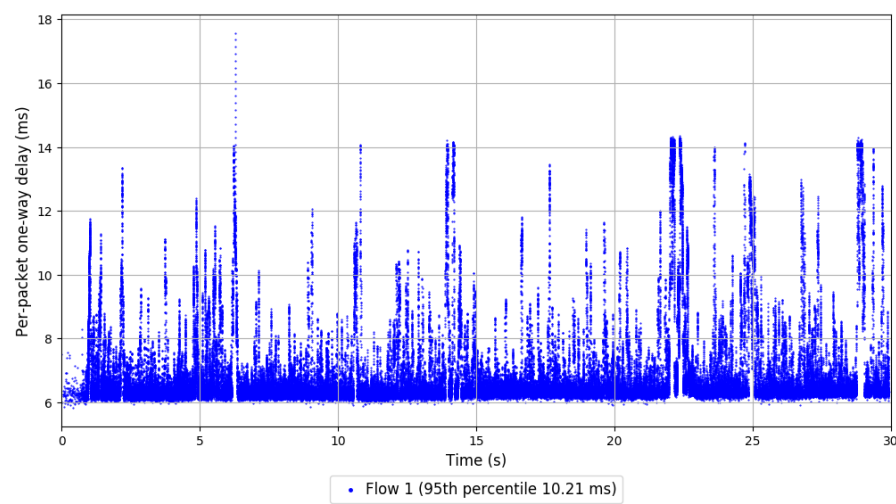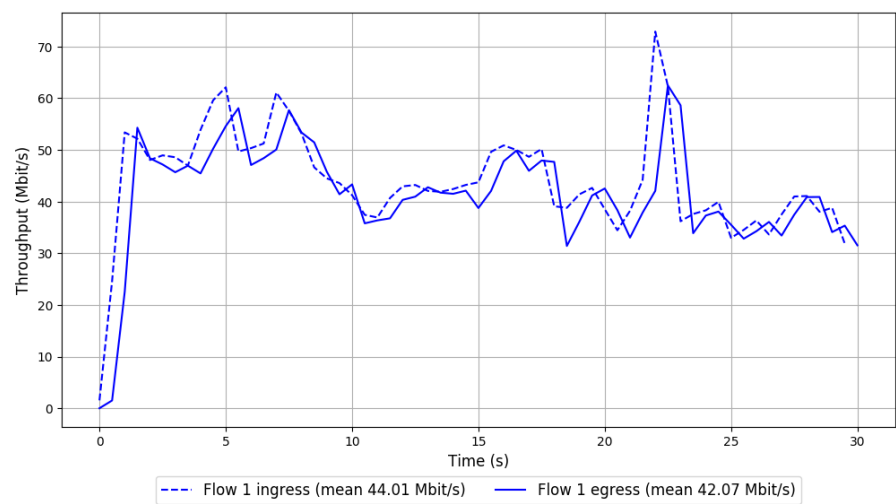
Run 10: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 44.01 Mbit/s) —— Flow 1 egress (mean 42.07 Mbit/s)

• Flow 1 (95th percentile 10.21 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2018-07-03 10:39:13
End at: 2018-07-03 10:39:43
Local clock offset: -1.962 ms
Remote clock offset: 4.306 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 16.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 16.839 ms
Loss rate: 0.00%
```
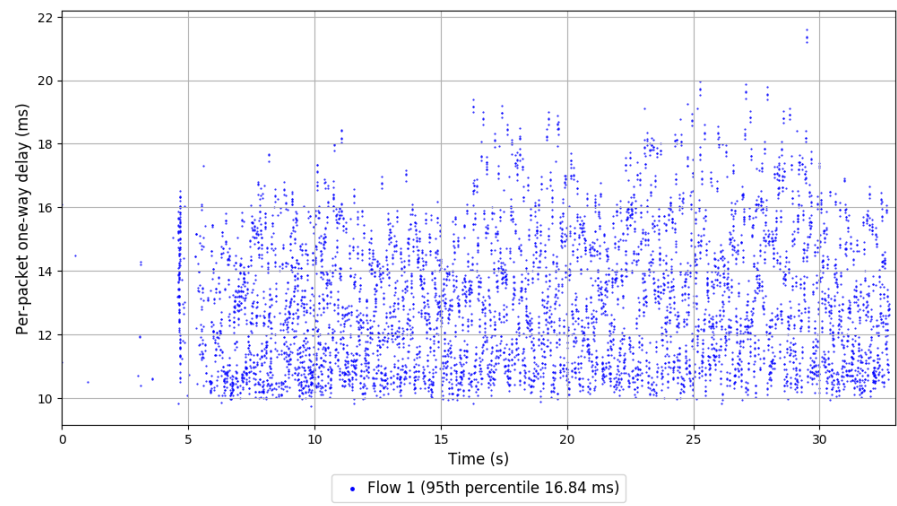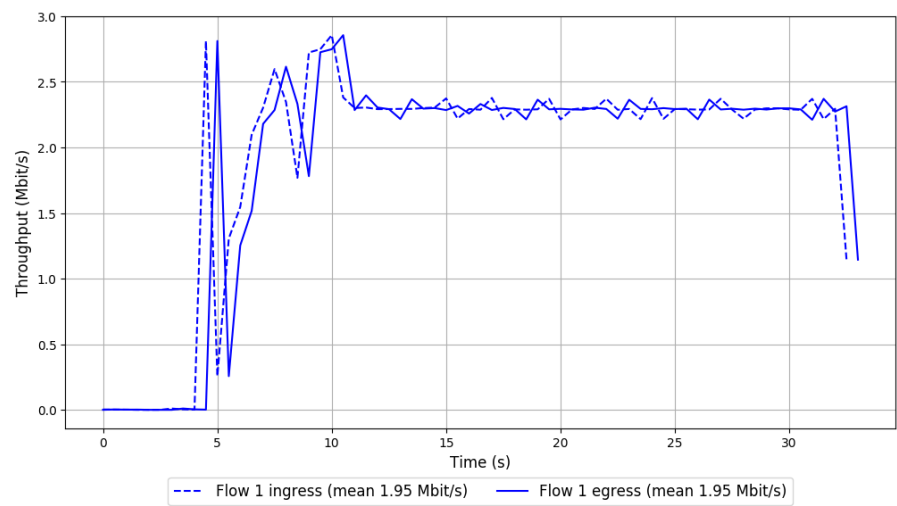
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-07-03 10:58:43
End at: 2018-07-03 10:59:13
Local clock offset: -1.66 ms
Remote clock offset: 6.369 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 17.317 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 17.317 ms
Loss rate: 1.85%
```
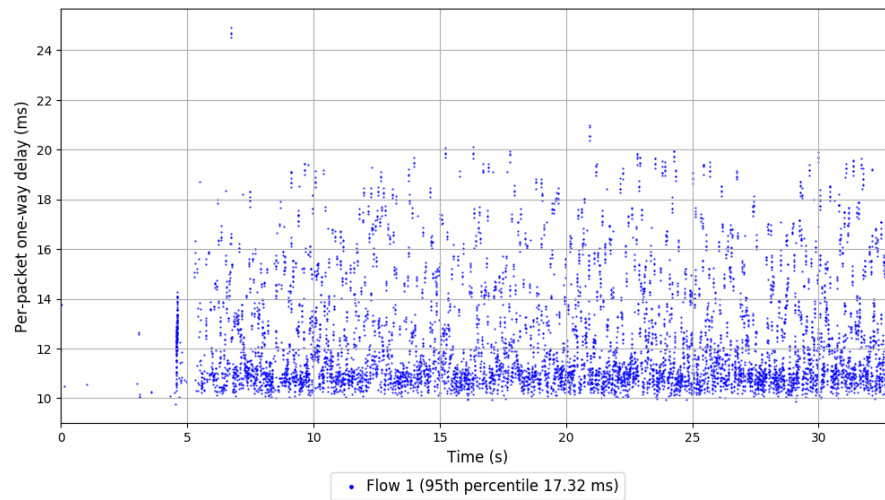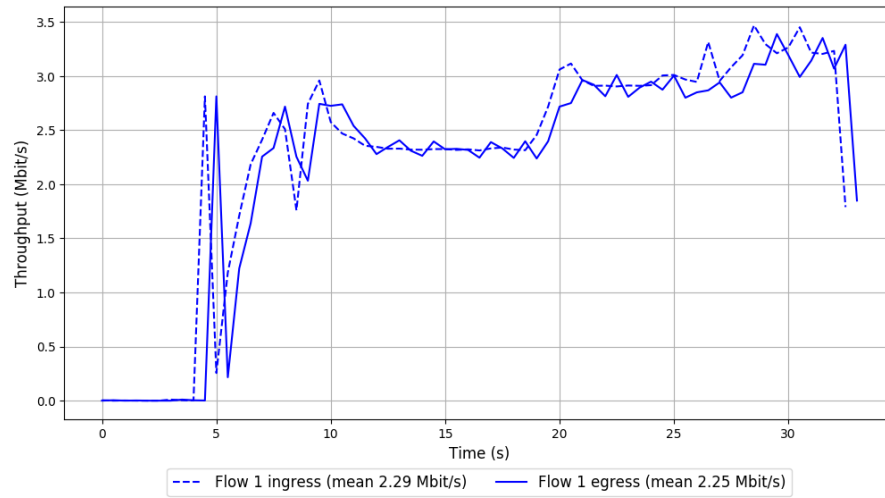
Run 2: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.29 Mbit/s)   Flow 1 egress (mean 2.25 Mbit/s)
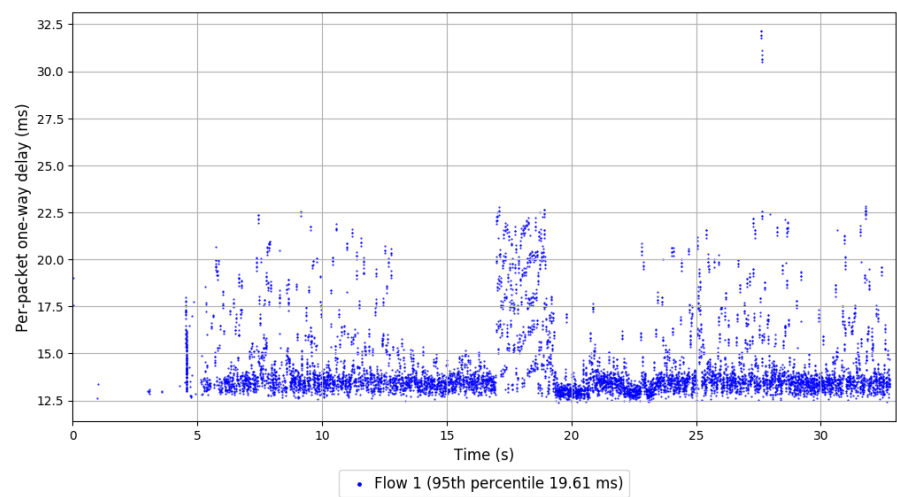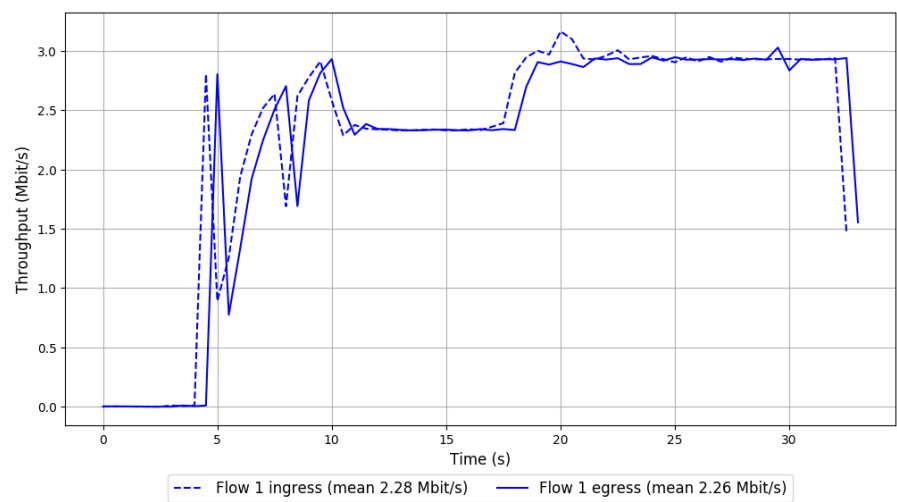

Flow 1 (95th percentile 17.32 ms)

```
Run 3: Statistics of WebRTC media

Start at: 2018-07-03 11:18:08
End at: 2018-07-03 11:18:38
Local clock offset: -10.506 ms
Remote clock offset: 4.956 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 19.606 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 19.606 ms
Loss rate: 0.73%
```

Run 3: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.28 Mbit/s) ---- Flow 1 egress (mean 2.26 Mbit/s) ——

Flow 1 (95th percentile 19.61 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2018-07-03 11:37:38
End at: 2018-07-03 11:38:08
Local clock offset: -8.355 ms
Remote clock offset: 3.477 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 18.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 18.689 ms
Loss rate: 0.00%
```
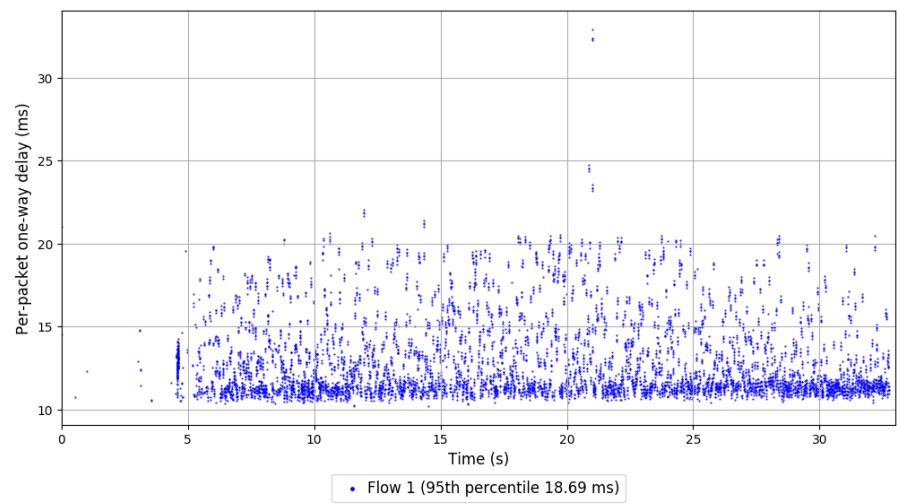
Run 4: Report of WebRTC media — Data Link

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

• Flow 1 (95th percentile 18.69 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2018-07-03 11:56:50
End at: 2018-07-03 11:57:20
Local clock offset: -4.24 ms
Remote clock offset: 1.364 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 18.147 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 18.147 ms
Loss rate: 0.00%
```
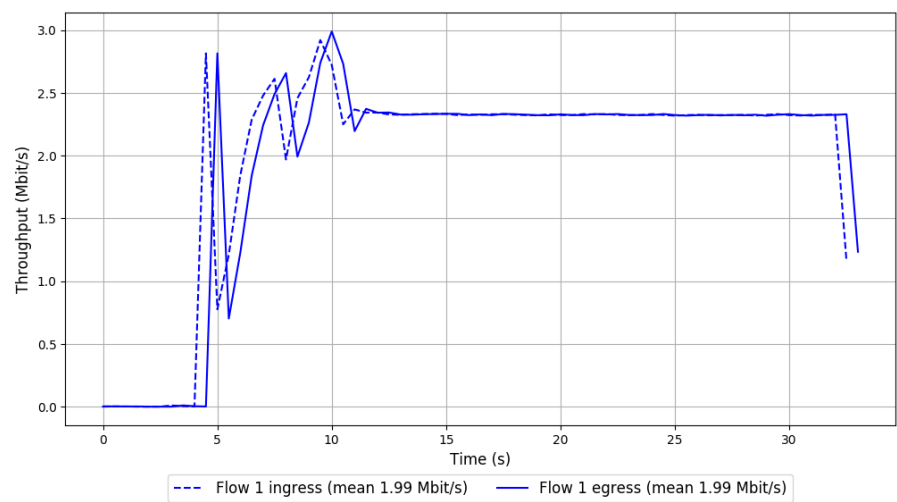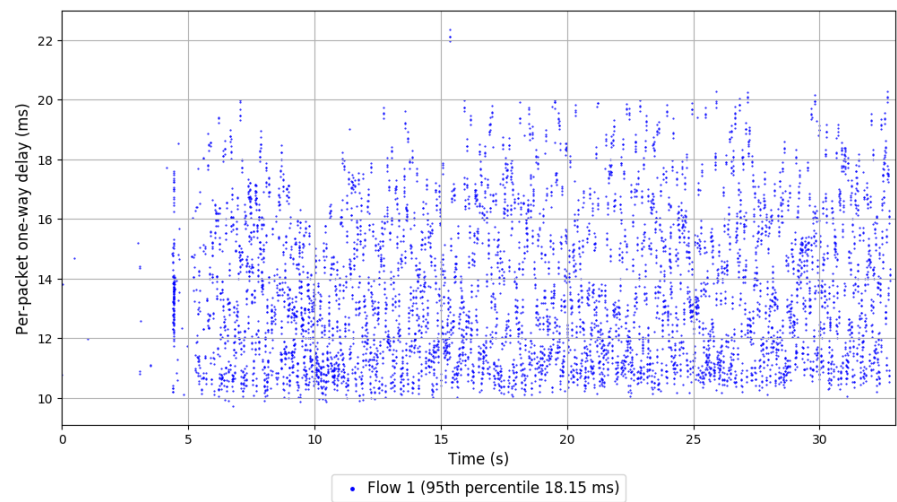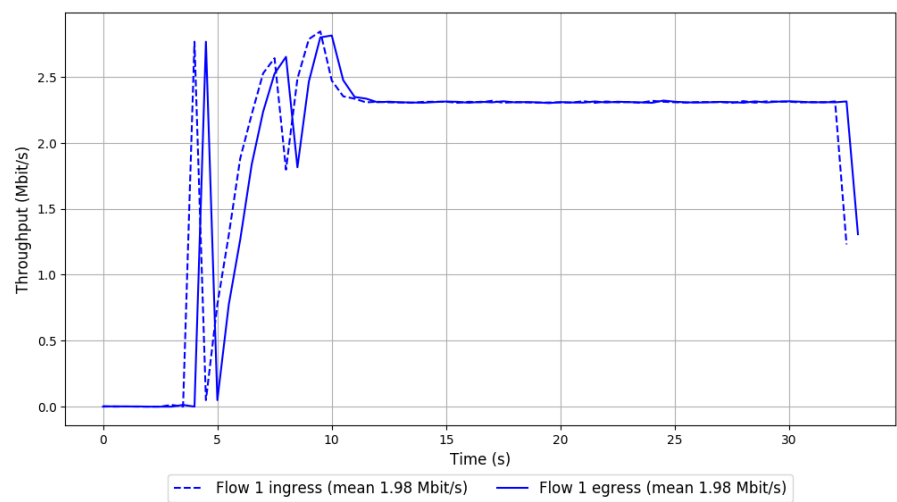
Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.98 Mbit/s)   Flow 1 egress (mean 1.98 Mbit/s)
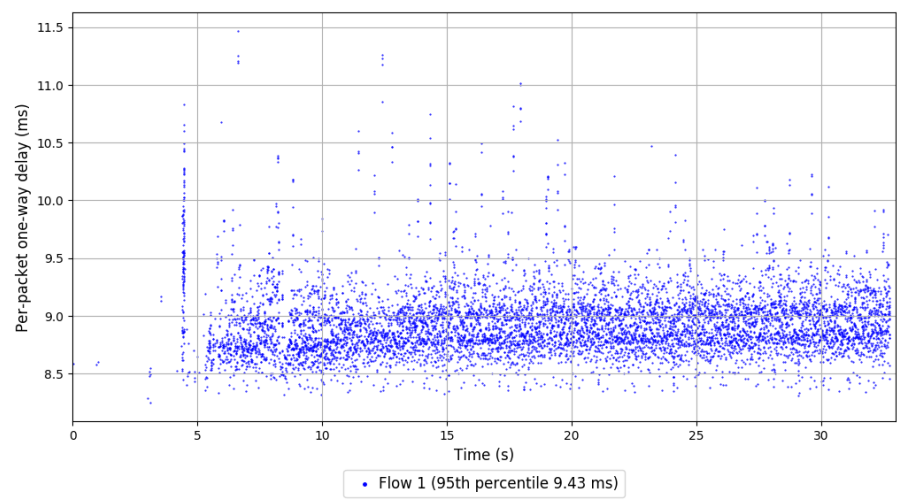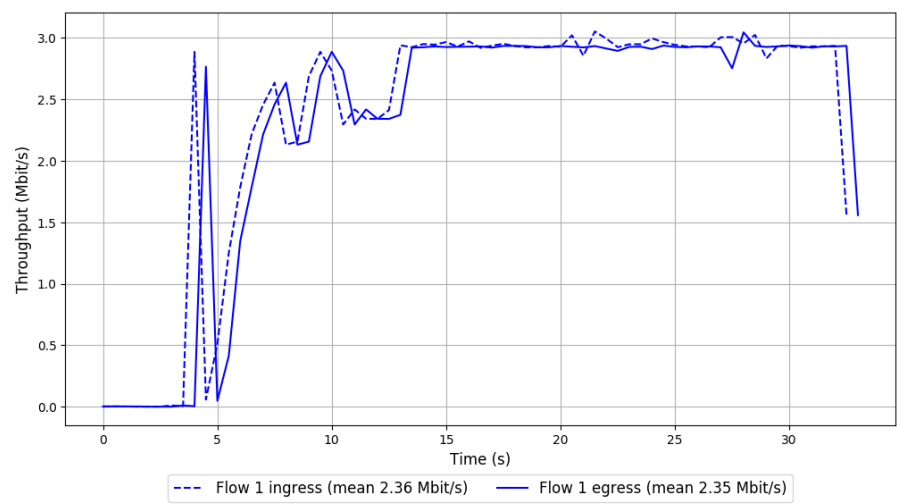

Flow 1 (95th percentile 18.15 ms)

```
Run 6: Statistics of WebRTC media

Start at: 2018-07-03 12:16:10
End at: 2018-07-03 12:16:40
Local clock offset: -5.538 ms
Remote clock offset: -8.128 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 9.430 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 9.430 ms
Loss rate: 0.64%
```

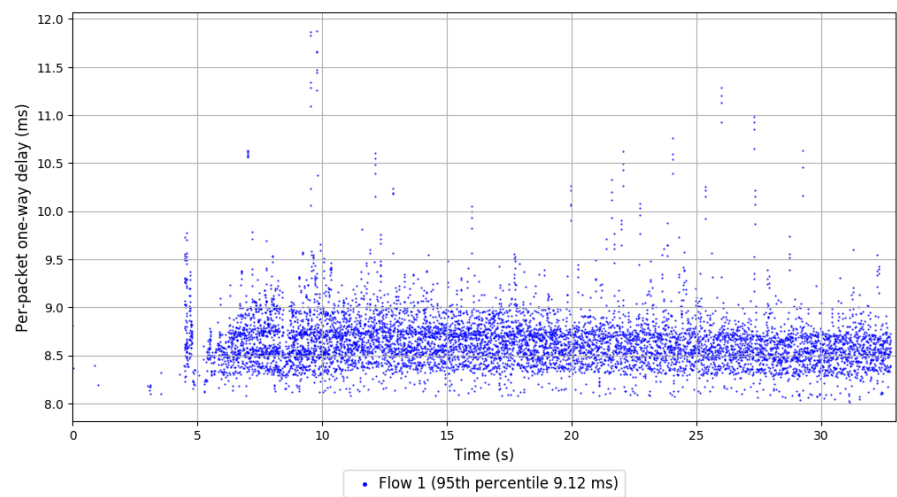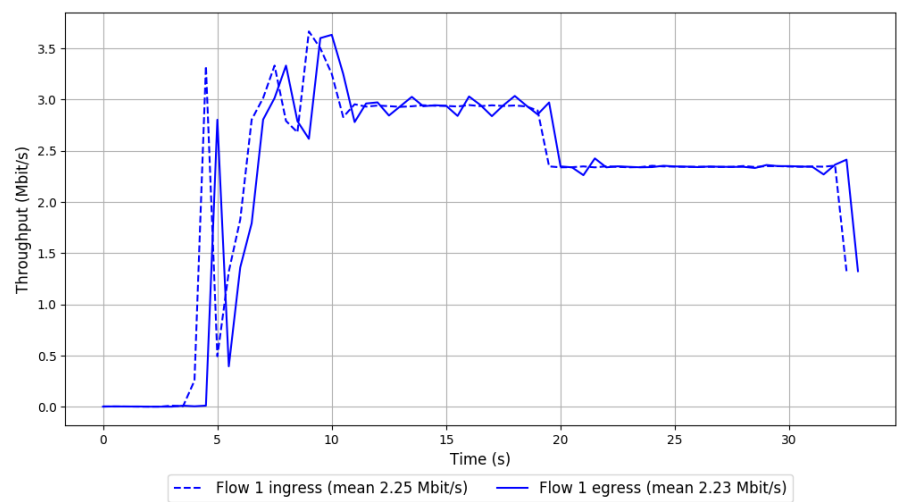# Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-07-03 12:35:19
End at: 2018-07-03 12:35:49
Local clock offset: -6.406 ms
Remote clock offset: -8.723 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 9.124 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 9.124 ms
Loss rate: 0.59%
```

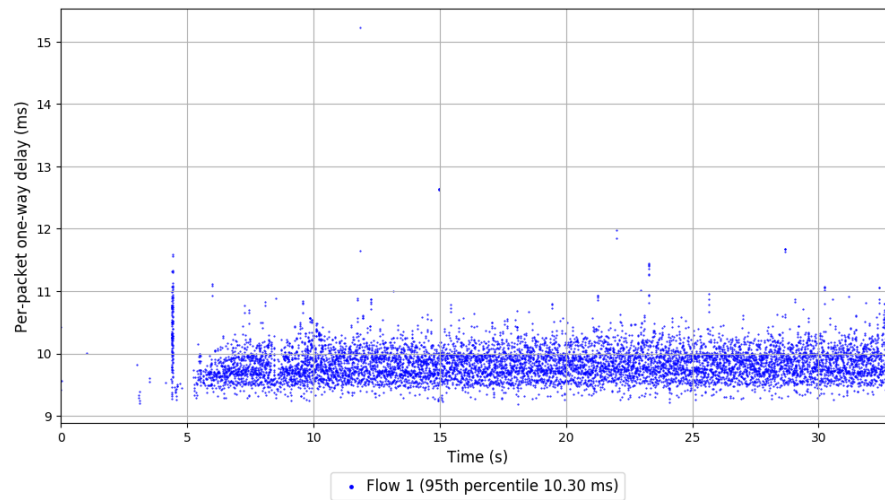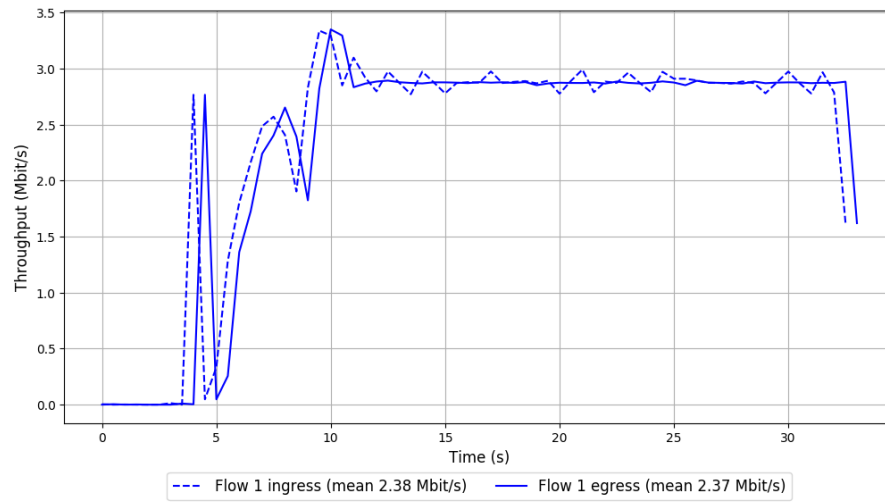Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-07-03 12:54:32
End at: 2018-07-03 12:55:03
Local clock offset: -8.485 ms
Remote clock offset: -9.338 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 10.302 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 10.302 ms
Loss rate: 0.31%
```

Run 8: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.38 Mbit/s) — — —   Flow 1 egress (mean 2.37 Mbit/s) ———

• Flow 1 (95th percentile 10.30 ms)

```
Run 9: Statistics of WebRTC media

Start at: 2018-07-03 13:14:00
End at: 2018-07-03 13:14:30
Local clock offset: 2.453 ms
Remote clock offset: -7.51 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 9.007 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 9.007 ms
Loss rate: 0.99%
```
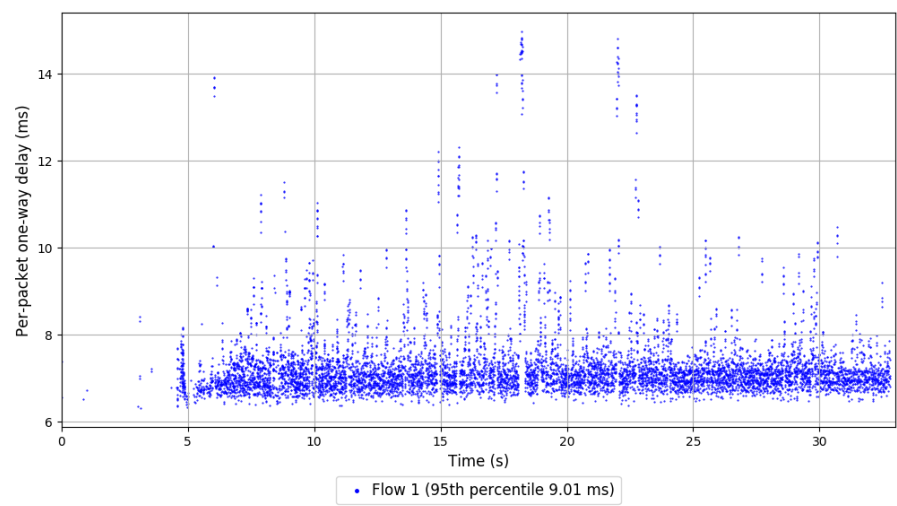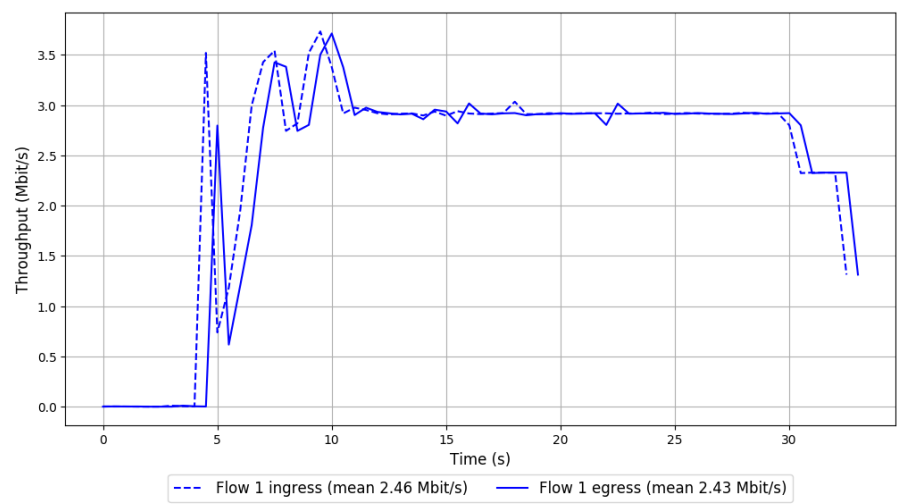
Run 9: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.46 Mbit/s) — Flow 1 egress (mean 2.43 Mbit/s)

Flow 1 (95th percentile 9.01 ms)

```
Run 10: Statistics of WebRTC media

Start at: 2018-07-03 13:33:16
End at: 2018-07-03 13:33:46
Local clock offset: 7.123 ms
Remote clock offset: -7.272 ms


# Below is generated by plot.py at 2018-07-03 13:53:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 9.045 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 9.045 ms
Loss rate: 0.04%
```

Run 10: Report of WebRTC media — Data Link