Pantheon Report

Generated at 2018-08-01 03:39:21 (UTC).

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

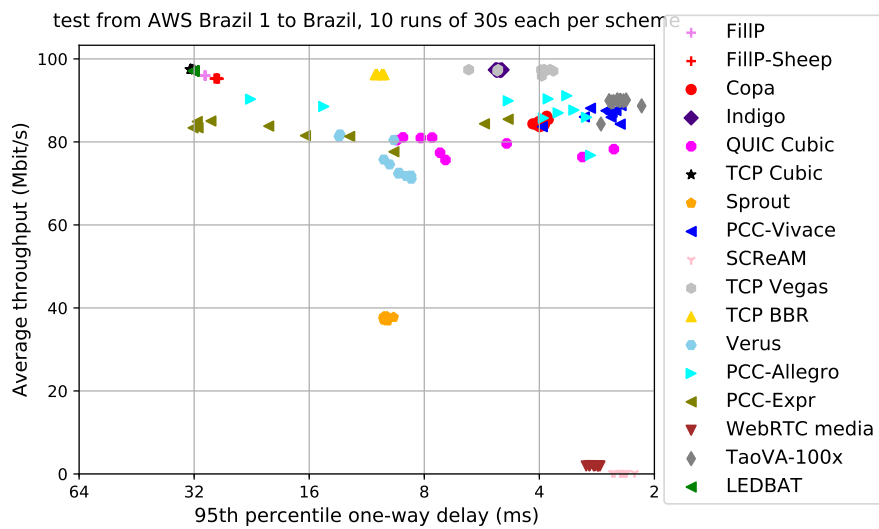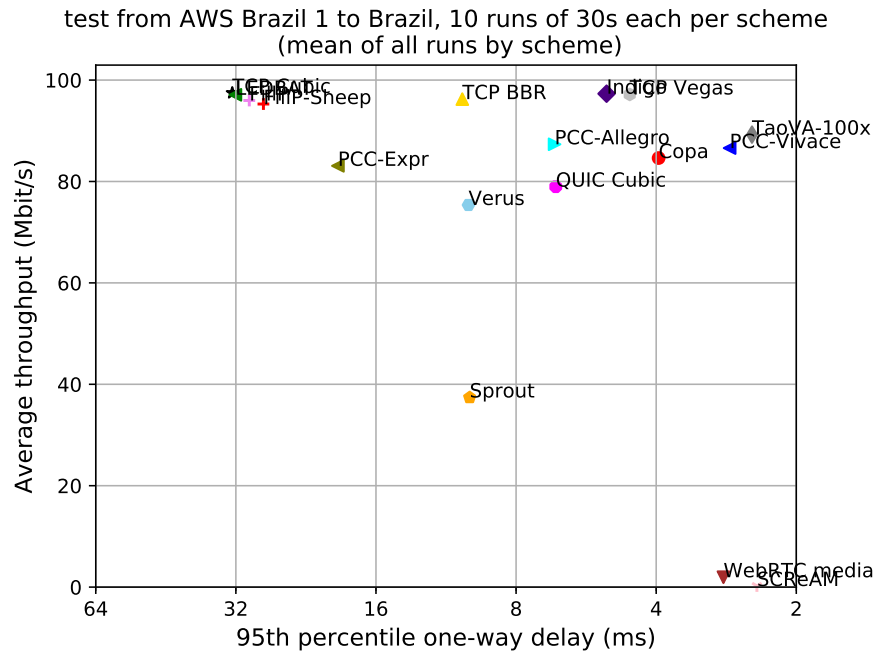Repeated the test of 17 congestion control schemes 10 times.

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 `gps.ntp.br` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 640164b5b17c7c6561fff57729b3b5935d8596ce
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
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 Brazil 1 to Brazil, 10 runs of 30s each per scheme
(mean of all runs by scheme)

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

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	96.24	10.44	0.00
Copa	10	84.62	3.95	0.00
TCP Cubic	10	97.47	32.57	0.01
FillP	10	95.98	29.95	4.26
FillP-Sheep	10	95.28	27.92	1.24
Indigo	10	97.31	5.11	0.00
LEDBAT	10	97.09	32.08	0.01
PCC-Allegro	10	87.34	6.61	0.02
PCC-Expr	10	83.08	19.32	0.37
QUIC Cubic	9	78.98	6.57	0.26
SCReAM	10	0.22	2.43	0.00
Sprout	10	37.40	10.07	0.00
TaoVA-100x	10	89.24	2.49	0.00
TCP Vegas	10	97.16	4.56	0.00
Verus	10	75.37	10.12	0.89
PCC-Vivace	10	86.59	2.78	0.01
WebRTC media	10	1.94	2.87	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2018-08-01 00:08:47
End at: 2018-08-01 00:09:17
Local clock offset: 1.14 ms
Remote clock offset: -1.893 ms


# Below is generated by plot.py at 2018-08-01 03:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 10.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 10.728 ms
Loss rate: 0.00%
```
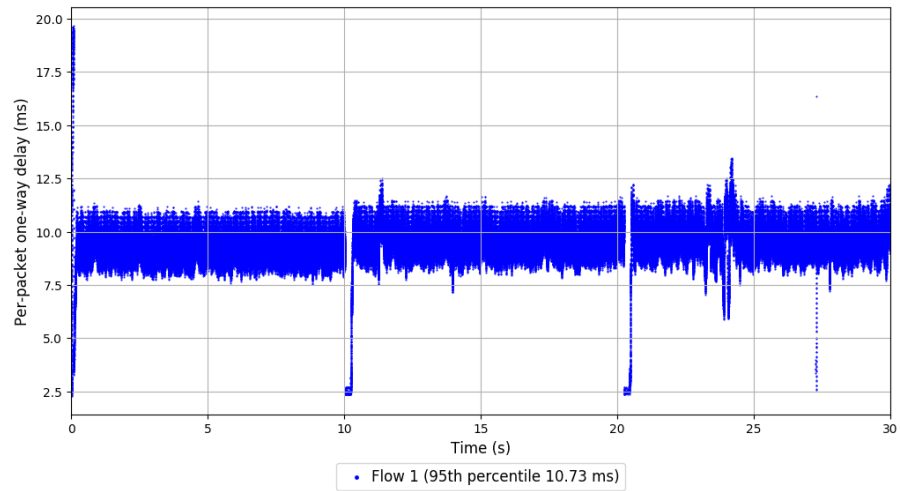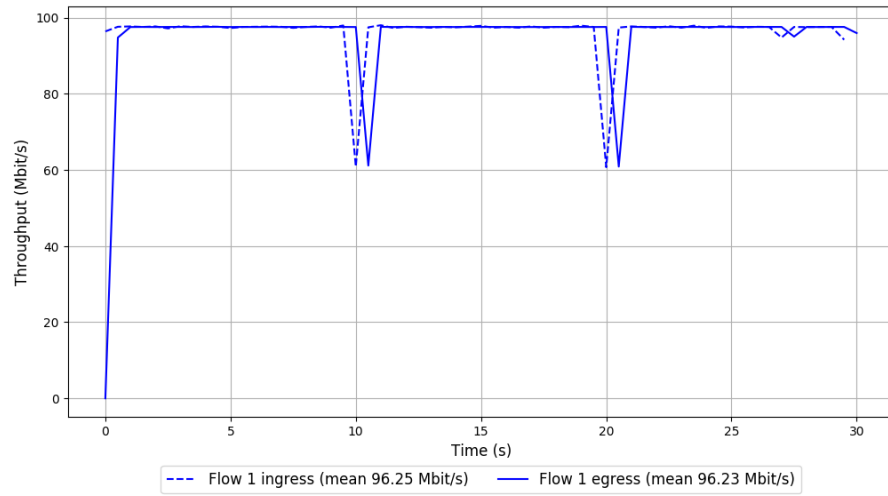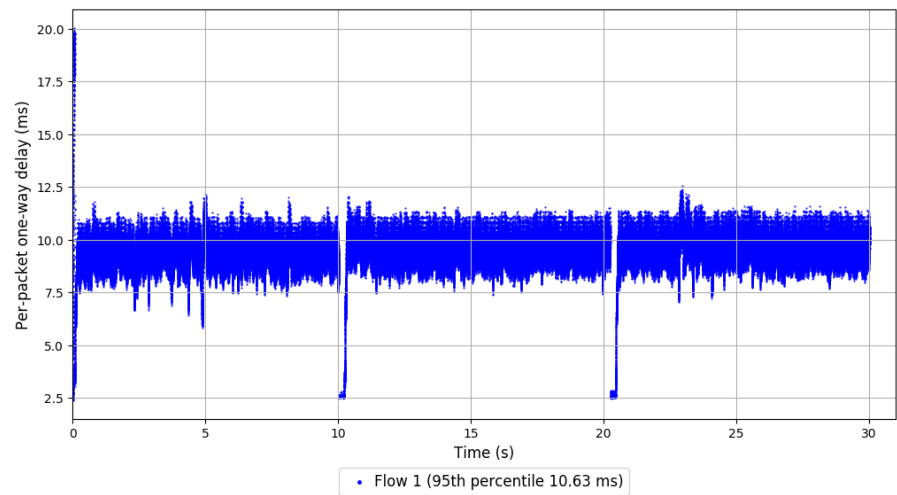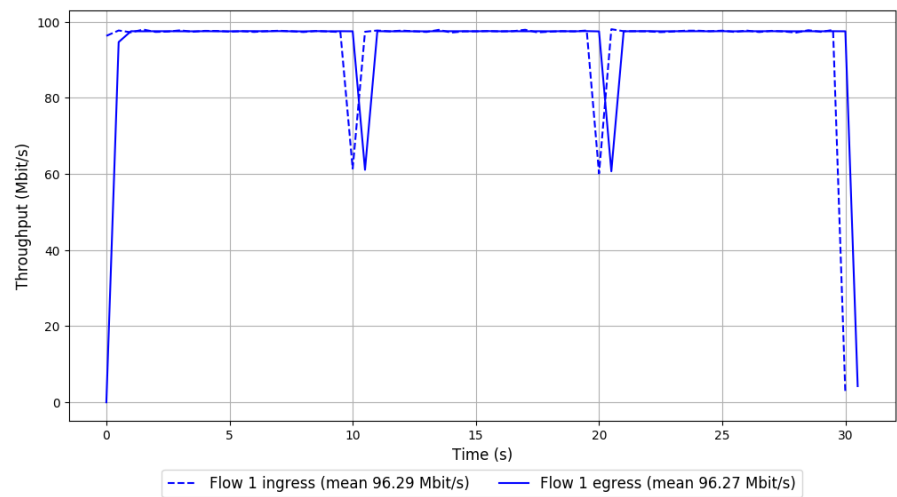
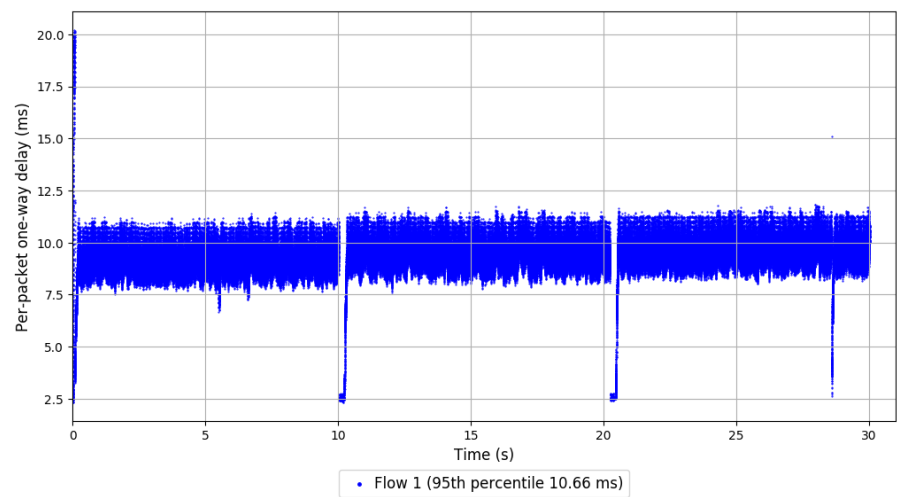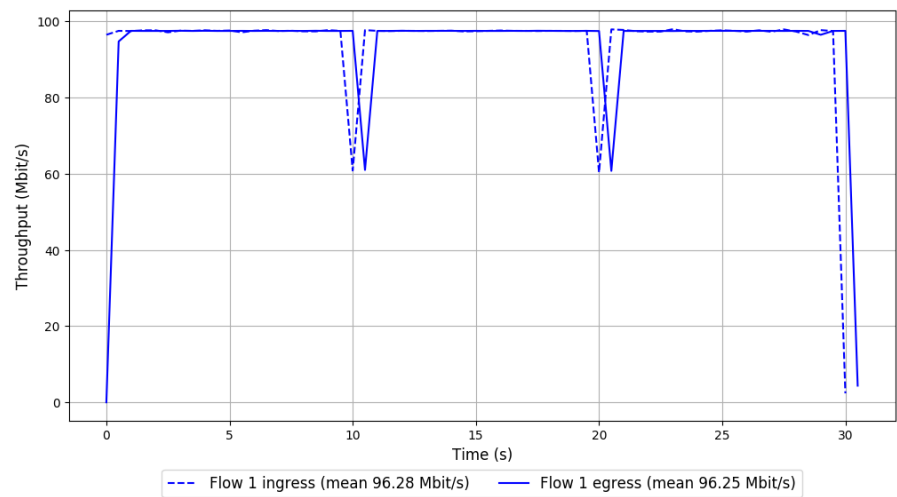# Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.25 Mbit/s)   Flow 1 egress (mean 96.23 Mbit/s)

Flow 1 (95th percentile 10.73 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2018-08-01 00:27:45
End at: 2018-08-01 00:28:15
Local clock offset: 2.465 ms
Remote clock offset: -2.059 ms


# Below is generated by plot.py at 2018-08-01 03:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.629 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.629 ms
Loss rate: 0.00%
```

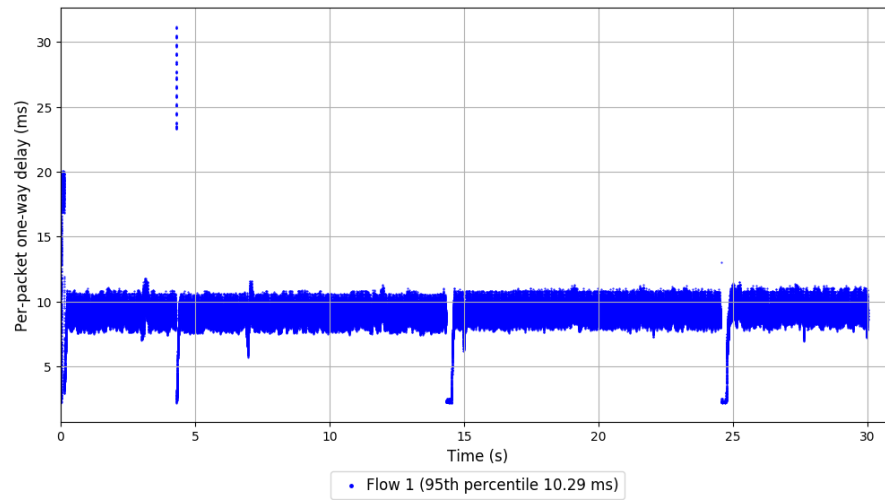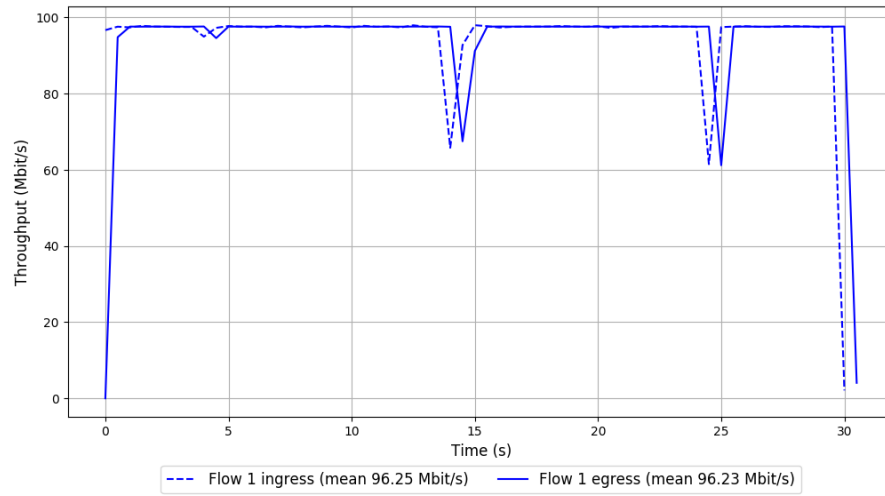Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2018-08-01 00:46:47
End at: 2018-08-01 00:47:17
Local clock offset: 3.861 ms
Remote clock offset: -2.363 ms


# Below is generated by plot.py at 2018-08-01 03:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.663 ms
Loss rate: 0.00%
```

Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.28 Mbit/s) —— Flow 1 egress (mean 96.25 Mbit/s)

Flow 1 (95th percentile 10.66 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2018-08-01 01:05:49
End at: 2018-08-01 01:06:19
Local clock offset: -1.906 ms
Remote clock offset: -2.683 ms


# Below is generated by plot.py at 2018-08-01 03:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 10.295 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.23 Mbit/s
95th percentile per-packet one-way delay: 10.295 ms
Loss rate: 0.00%
```
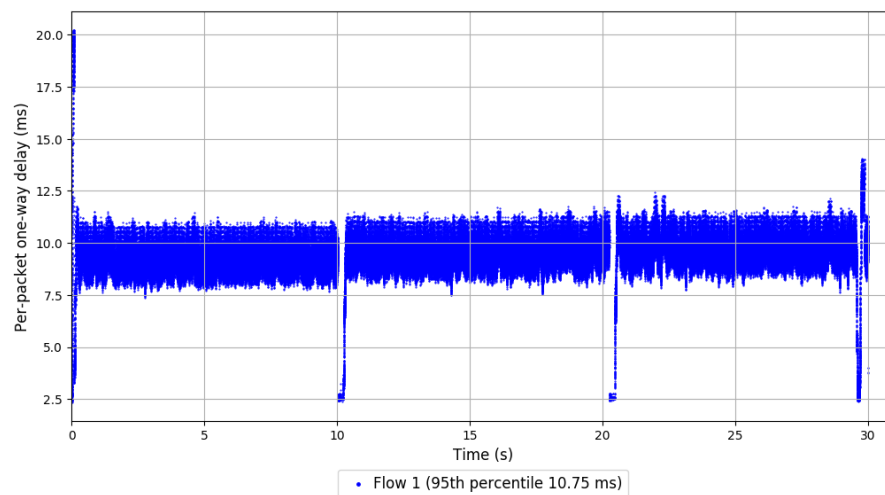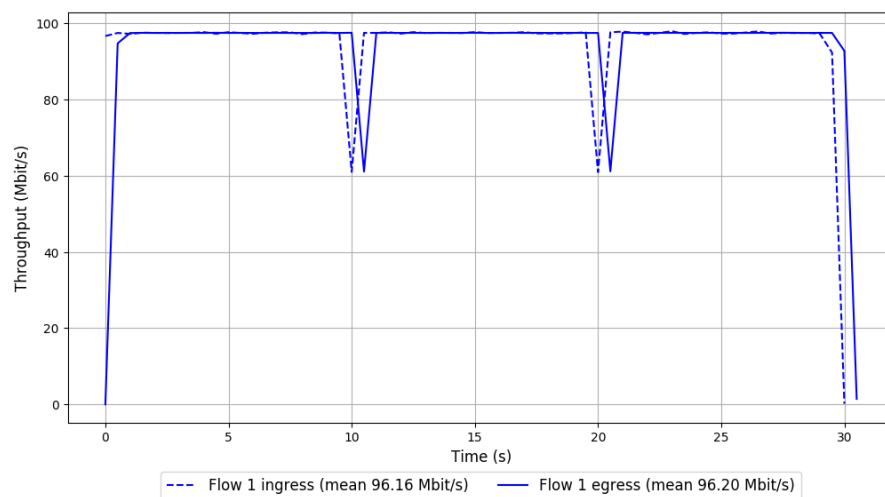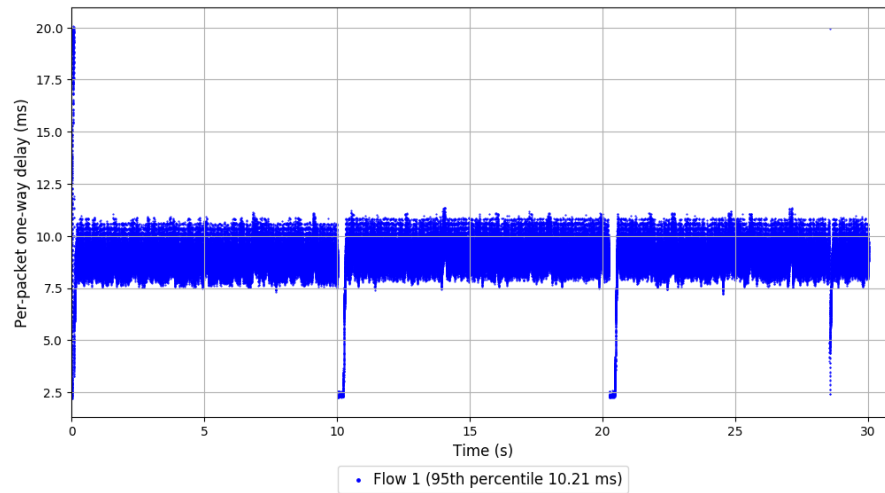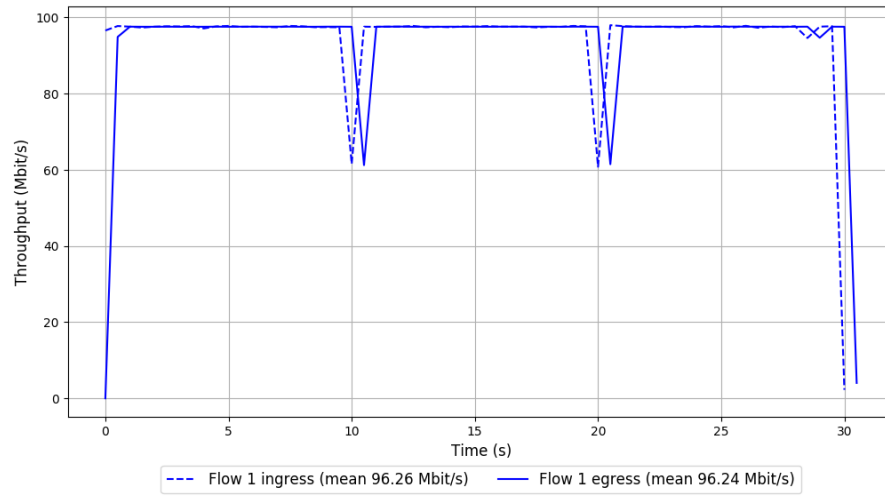
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.25 Mbit/s) Flow 1 egress (mean 96.23 Mbit/s)

Flow 1 (95th percentile 10.29 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2018-08-01 01:24:52
End at: 2018-08-01 01:25:22
Local clock offset: -3.96 ms
Remote clock offset: -2.816 ms


# Below is generated by plot.py at 2018-08-01 03:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 10.749 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.20 Mbit/s
95th percentile per-packet one-way delay: 10.749 ms
Loss rate: 0.00%
```

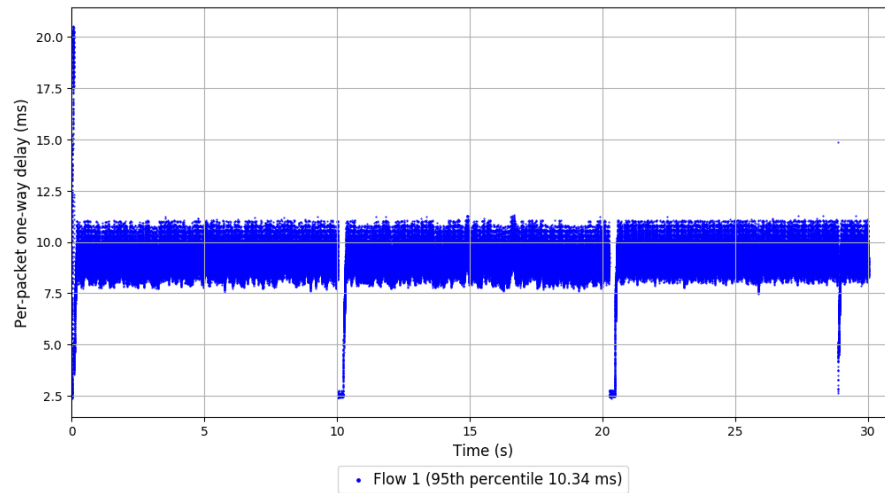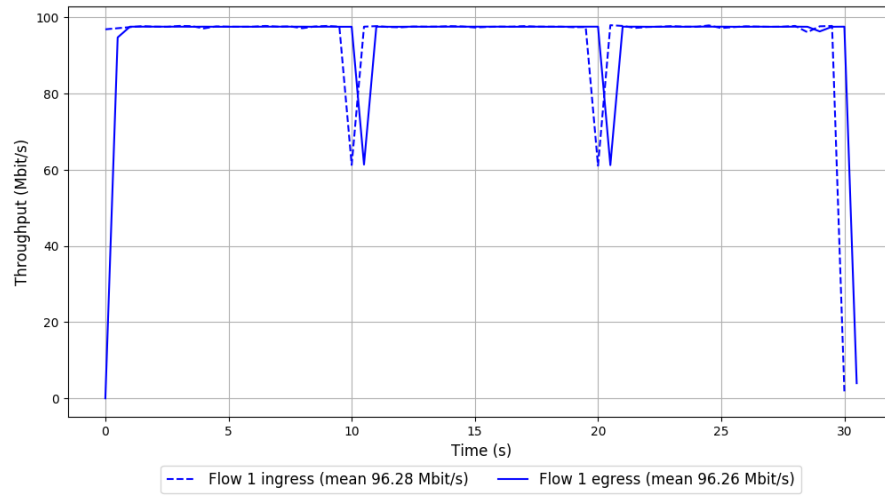Run 5: Report of TCP BBR — Data Link

```
Run 6: Statistics of TCP BBR

Start at: 2018-08-01 01:43:53
End at: 2018-08-01 01:44:23
Local clock offset: -3.793 ms
Remote clock offset: -2.595 ms


# Below is generated by plot.py at 2018-08-01 03:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 10.213 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 10.213 ms
Loss rate: 0.00%
```

Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.26 Mbit/s) ----   Flow 1 egress (mean 96.24 Mbit/s) ——

Flow 1 (95th percentile 10.21 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-08-01 02:02:55
End at: 2018-08-01 02:03:26
Local clock offset: -2.61 ms
Remote clock offset: -2.348 ms


# Below is generated by plot.py at 2018-08-01 03:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 10.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.26 Mbit/s
95th percentile per-packet one-way delay: 10.337 ms
Loss rate: 0.00%
```
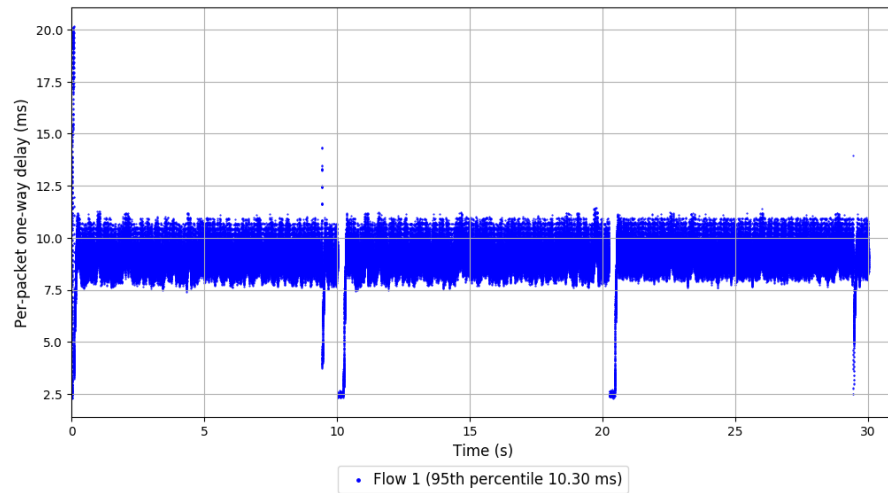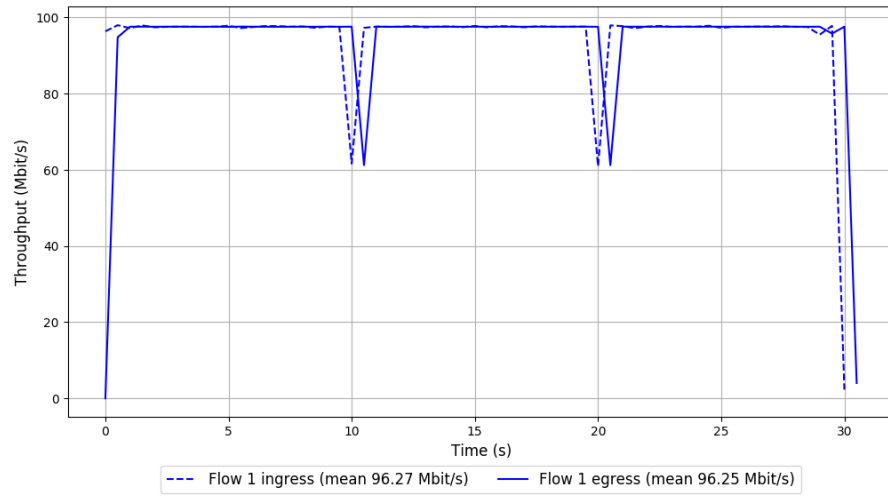
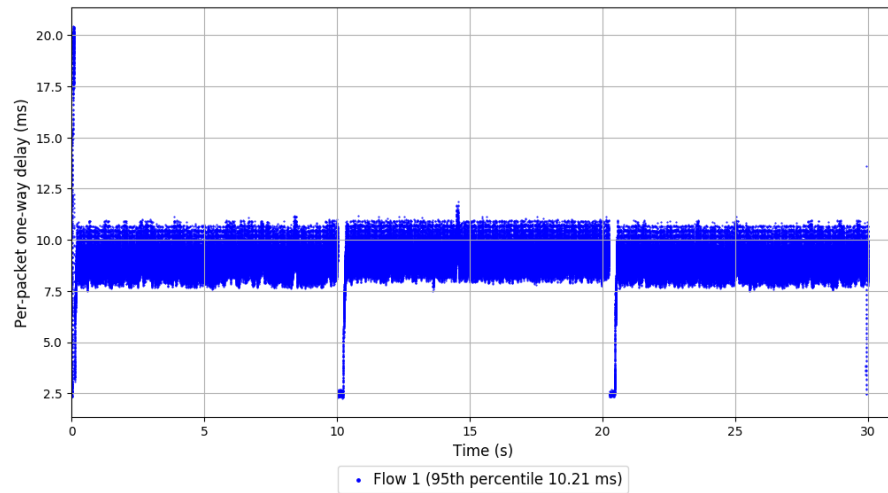Run 7: Report of TCP BBR — Data Link

```
Run 8: Statistics of TCP BBR

Start at: 2018-08-01 02:22:03
End at: 2018-08-01 02:22:33
Local clock offset: -2.03 ms
Remote clock offset: -2.699 ms


# Below is generated by plot.py at 2018-08-01 03:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.299 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.25 Mbit/s
95th percentile per-packet one-way delay: 10.299 ms
Loss rate: 0.00%
```
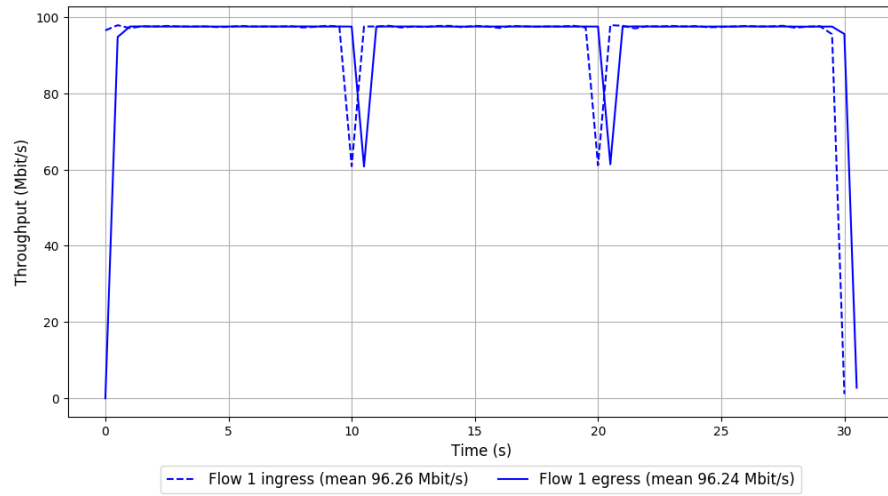
Run 8: Report of TCP BBR — Data Link

```
Run 9: Statistics of TCP BBR

Start at: 2018-08-01 02:41:05
End at: 2018-08-01 02:41:35
Local clock offset: -2.282 ms
Remote clock offset: -2.881 ms


# Below is generated by plot.py at 2018-08-01 03:17:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 10.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 10.211 ms
Loss rate: 0.00%
```
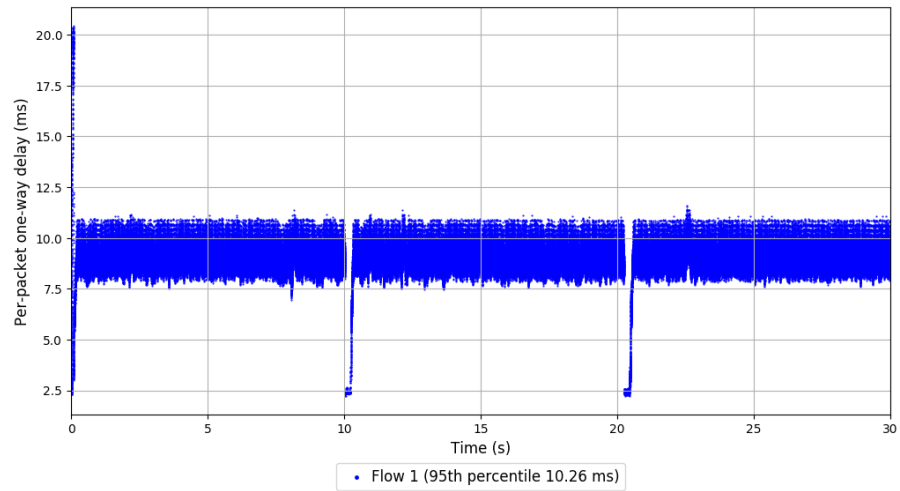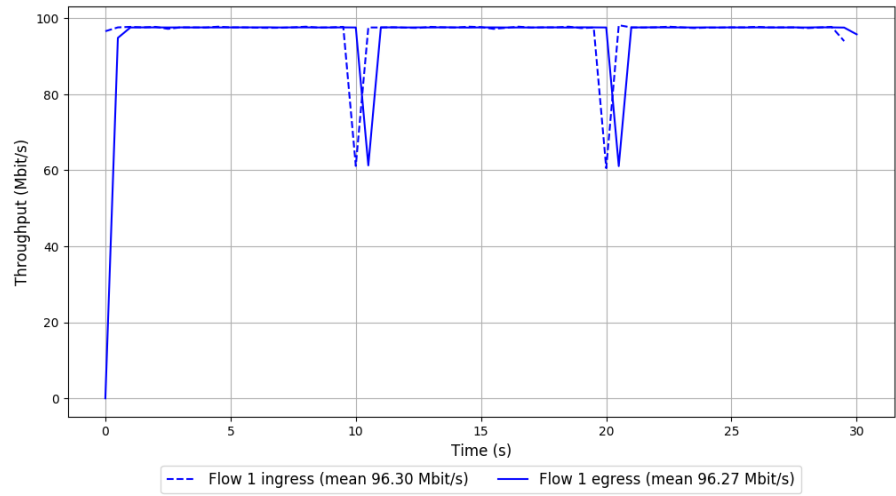
Run 9: Report of TCP BBR — Data Link

```
Run 10: Statistics of TCP BBR

Start at: 2018-08-01 03:00:12
End at: 2018-08-01 03:00:42
Local clock offset: -3.369 ms
Remote clock offset: -3.076 ms


# Below is generated by plot.py at 2018-08-01 03:17:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.27 Mbit/s
95th percentile per-packet one-way delay: 10.255 ms
Loss rate: 0.00%
```

Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.30 Mbit/s)   Flow 1 egress (mean 96.27 Mbit/s)

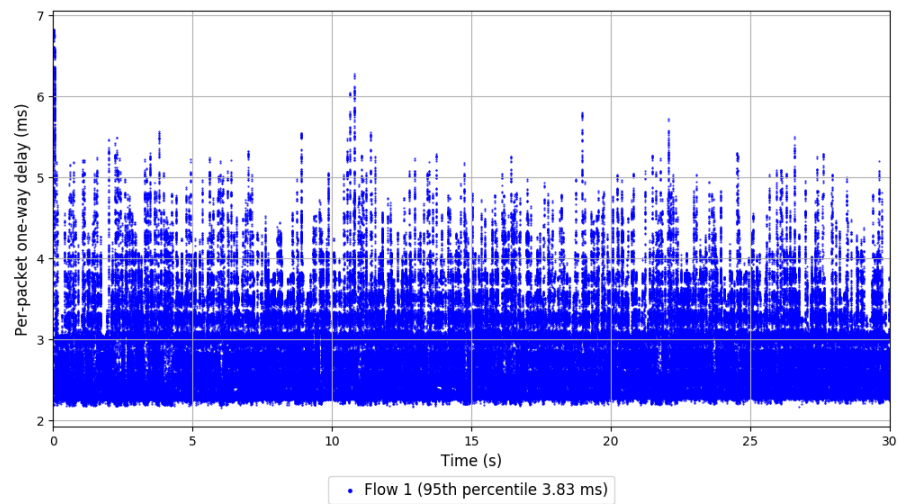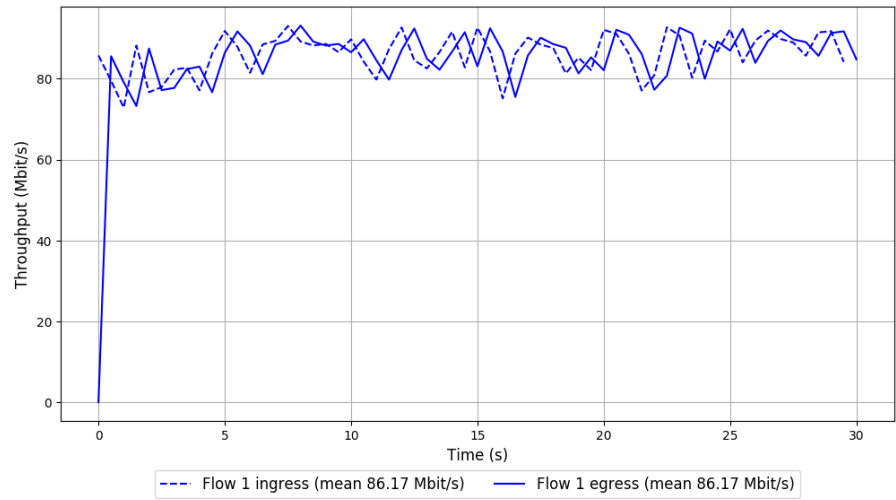Flow 1 (95th percentile 10.26 ms)

```
Run 1: Statistics of Copa

Start at: 2018-08-01 00:07:37
End at: 2018-08-01 00:08:07
Local clock offset: 1.111 ms
Remote clock offset: -1.967 ms


# Below is generated by plot.py at 2018-08-01 03:18:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 3.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.17 Mbit/s
95th percentile per-packet one-way delay: 3.828 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 86.17 Mbit/s)   Flow 1 egress (mean 86.17 Mbit/s)
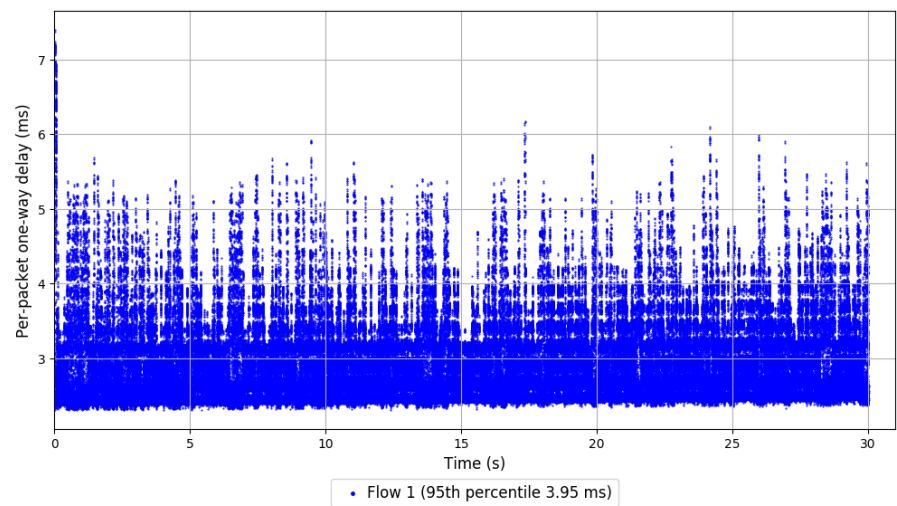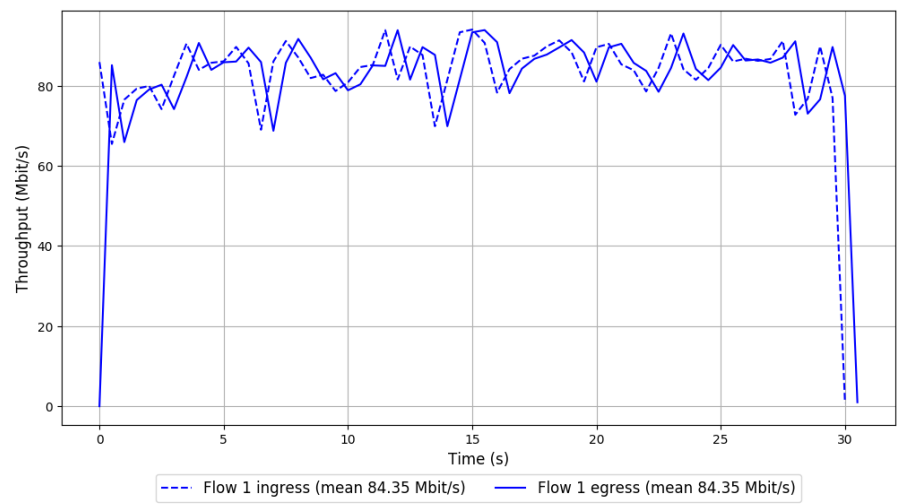

Flow 1 (95th percentile 3.83 ms)

```
Run 2: Statistics of Copa

Start at: 2018-08-01 00:26:35
End at: 2018-08-01 00:27:06
Local clock offset: 2.437 ms
Remote clock offset: -2.044 ms


# Below is generated by plot.py at 2018-08-01 03:18:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 3.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 3.947 ms
Loss rate: 0.00%
```

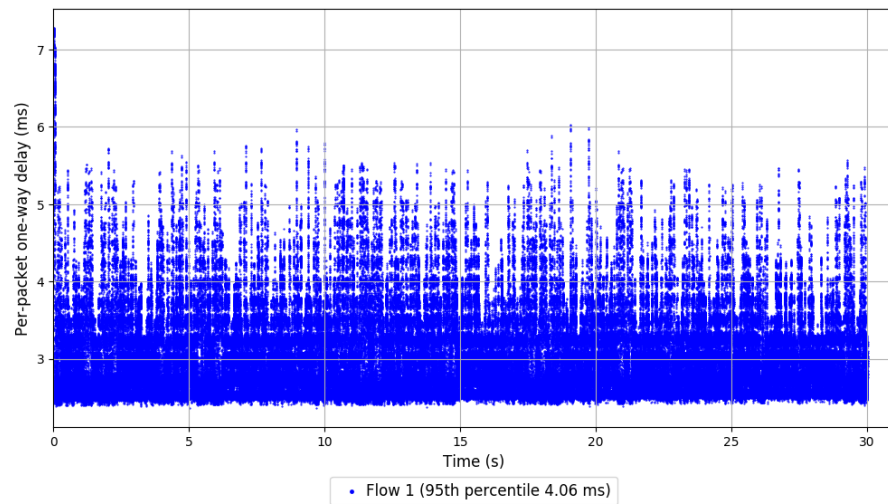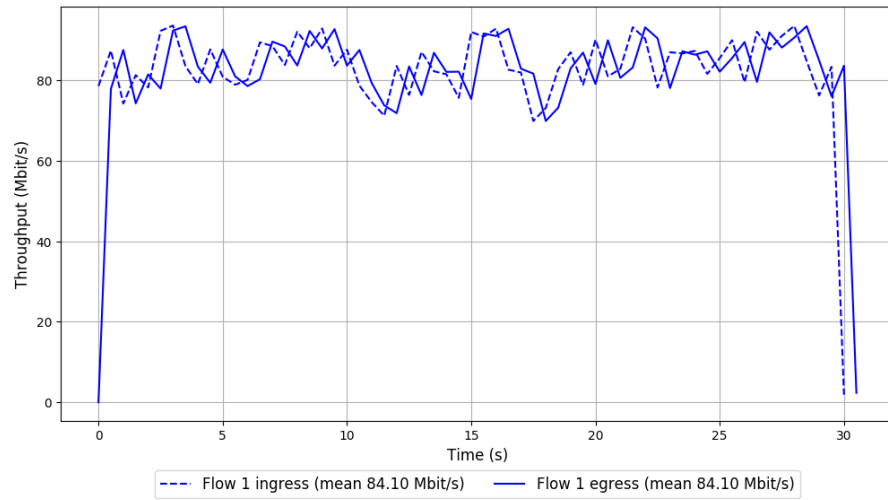Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2018-08-01 00:45:37
End at: 2018-08-01 00:46:08
Local clock offset: 3.713 ms
Remote clock offset: -2.362 ms


# Below is generated by plot.py at 2018-08-01 03:18:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.10 Mbit/s
95th percentile per-packet one-way delay: 4.062 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.10 Mbit/s
95th percentile per-packet one-way delay: 4.062 ms
Loss rate: 0.00%
```

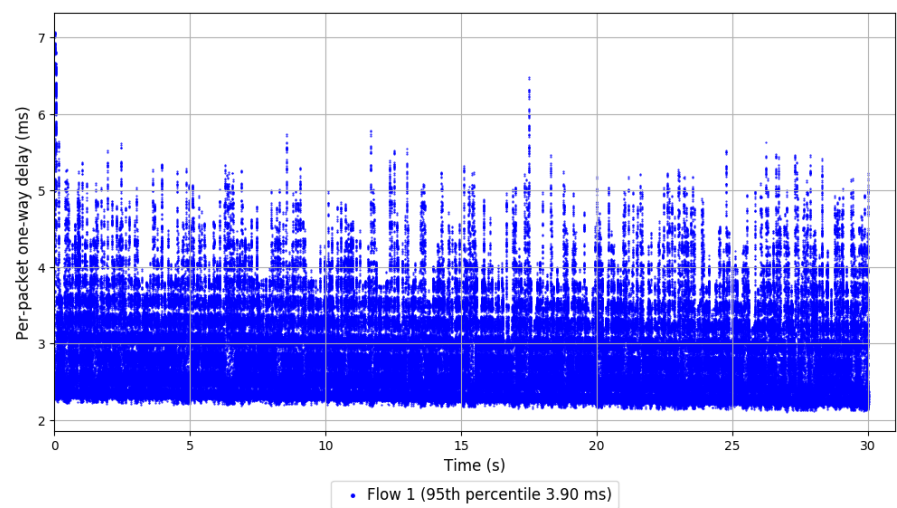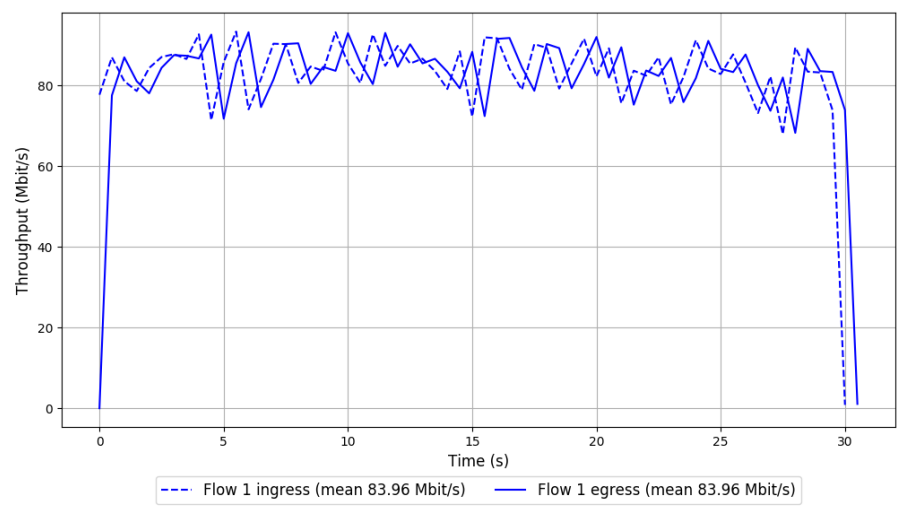Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2018-08-01 01:04:39
End at: 2018-08-01 01:05:09
Local clock offset: -1.668 ms
Remote clock offset: -2.664 ms


# Below is generated by plot.py at 2018-08-01 03:18:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.96 Mbit/s
95th percentile per-packet one-way delay: 3.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.96 Mbit/s
95th percentile per-packet one-way delay: 3.897 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 83.96 Mbit/s) ——— Flow 1 egress (mean 83.96 Mbit/s)

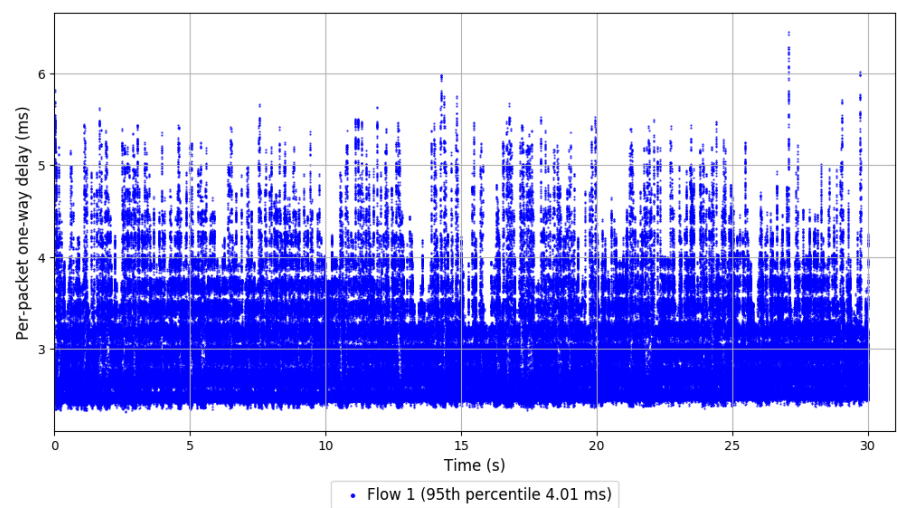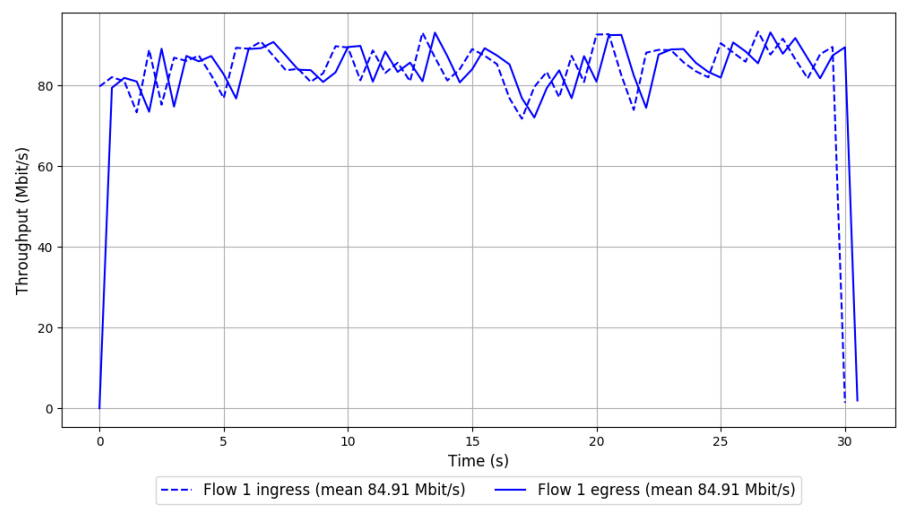• Flow 1 (95th percentile 3.90 ms)

```
Run 5: Statistics of Copa

Start at: 2018-08-01 01:23:42
End at: 2018-08-01 01:24:12
Local clock offset: -4.074 ms
Remote clock offset: -2.862 ms


# Below is generated by plot.py at 2018-08-01 03:18:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 4.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 4.014 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

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

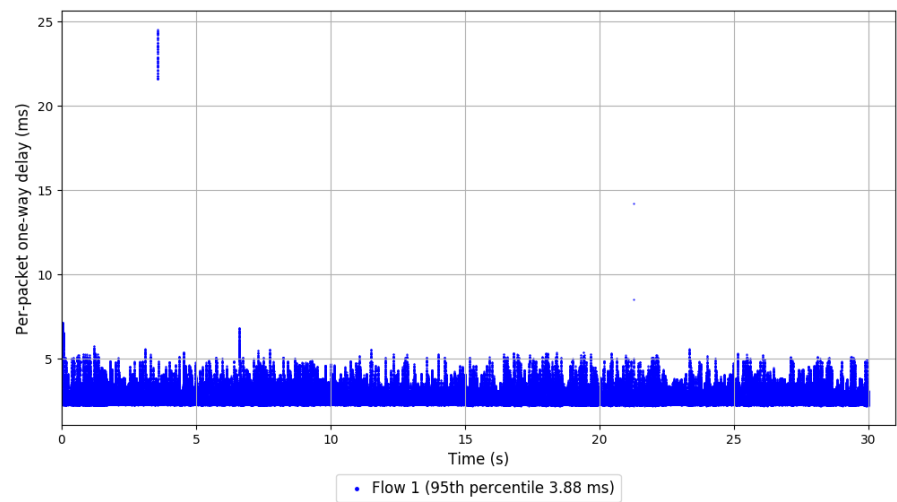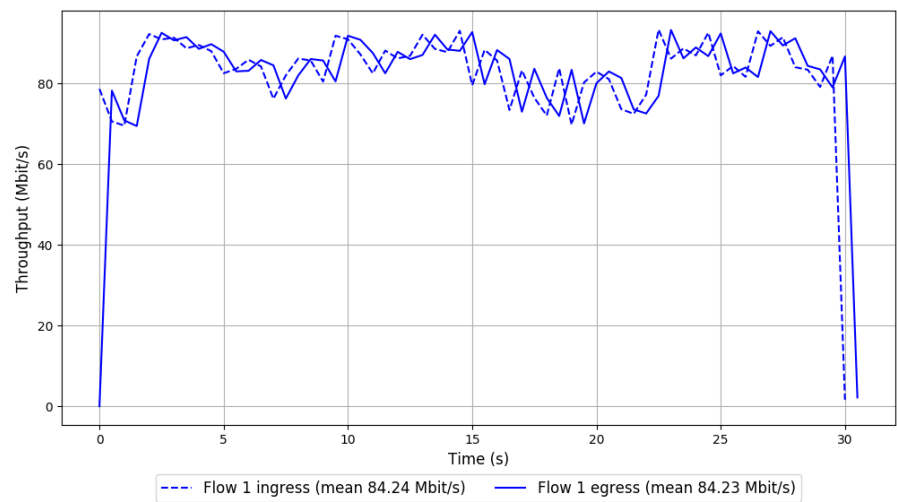• Flow 1 (95th percentile 4.01 ms)

```
Run 6: Statistics of Copa

Start at: 2018-08-01 01:42:44
End at: 2018-08-01 01:43:14
Local clock offset: -3.768 ms
Remote clock offset: -2.581 ms


# Below is generated by plot.py at 2018-08-01 03:18:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.23 Mbit/s
95th percentile per-packet one-way delay: 3.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.23 Mbit/s
95th percentile per-packet one-way delay: 3.881 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 84.24 Mbit/s) —— Flow 1 egress (mean 84.23 Mbit/s)

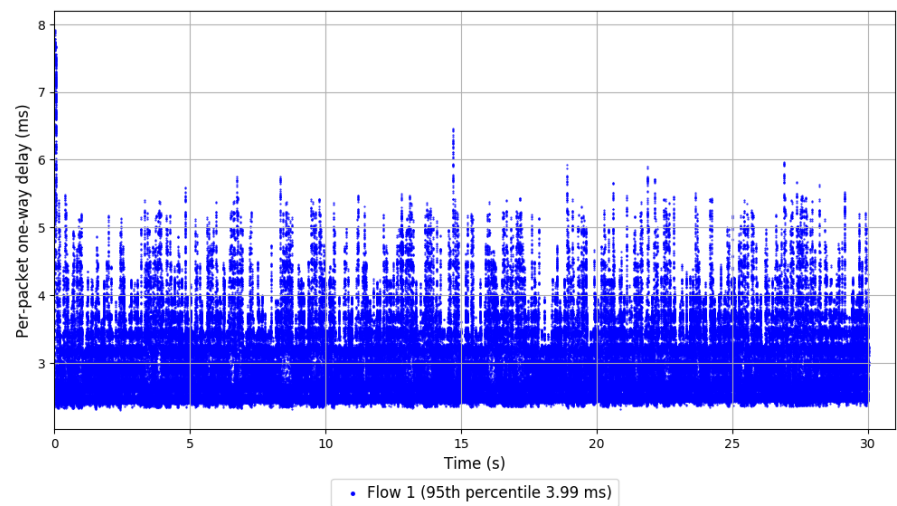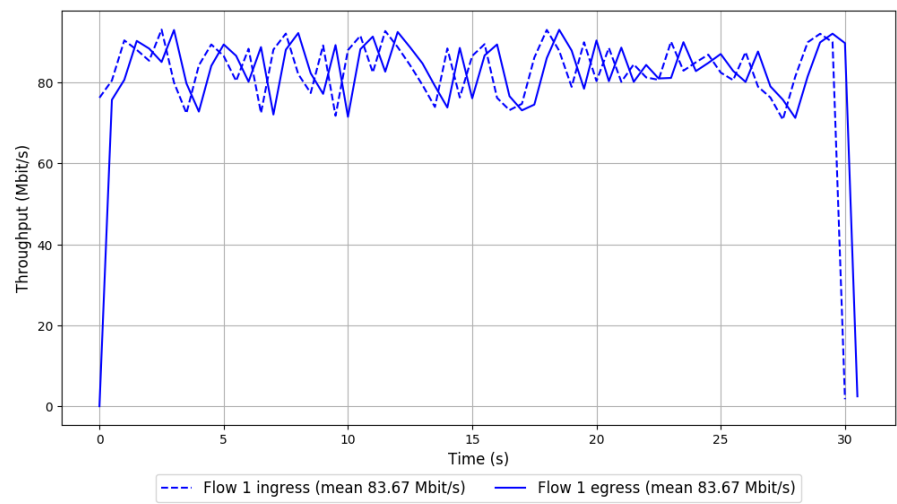• Flow 1 (95th percentile 3.88 ms)

```
Run 7: Statistics of Copa

Start at: 2018-08-01 02:01:46
End at: 2018-08-01 02:02:16
Local clock offset: -2.649 ms
Remote clock offset: -2.339 ms


# Below is generated by plot.py at 2018-08-01 03:19:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.67 Mbit/s
95th percentile per-packet one-way delay: 3.993 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.67 Mbit/s
95th percentile per-packet one-way delay: 3.993 ms
Loss rate: 0.00%
```

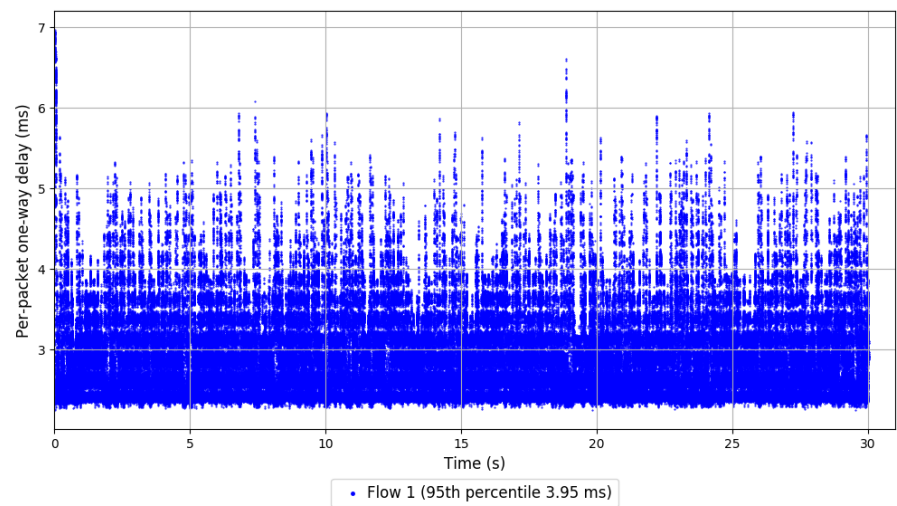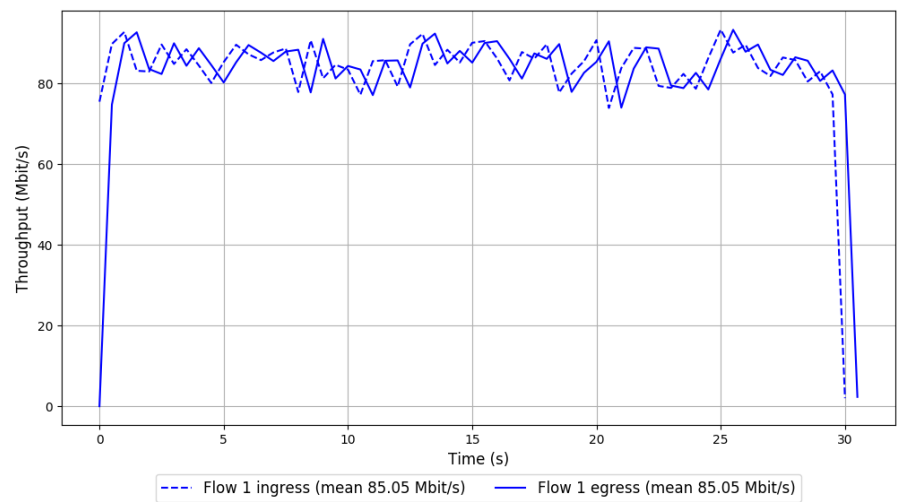Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: 2018-08-01 02:20:53
End at: 2018-08-01 02:21:23
Local clock offset: -2.036 ms
Remote clock offset: -2.692 ms


# Below is generated by plot.py at 2018-08-01 03:19:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 3.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.05 Mbit/s
95th percentile per-packet one-way delay: 3.950 ms
Loss rate: 0.00%
```

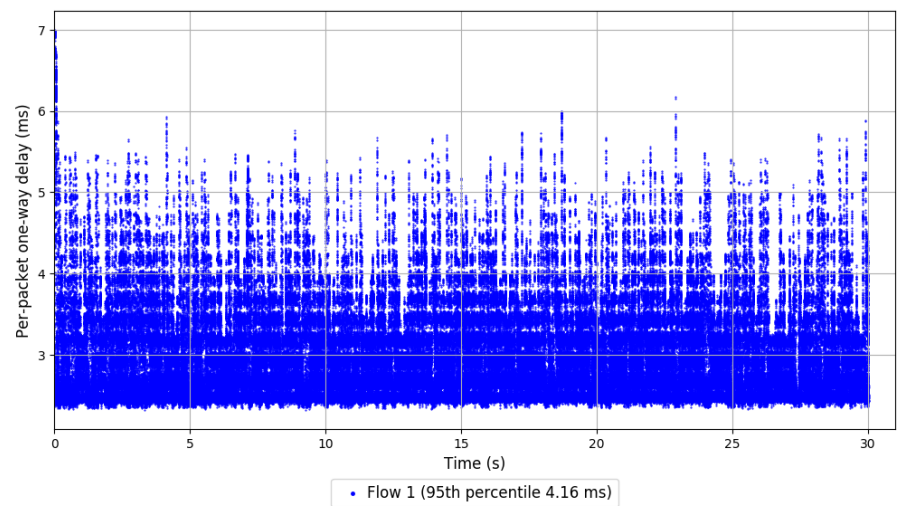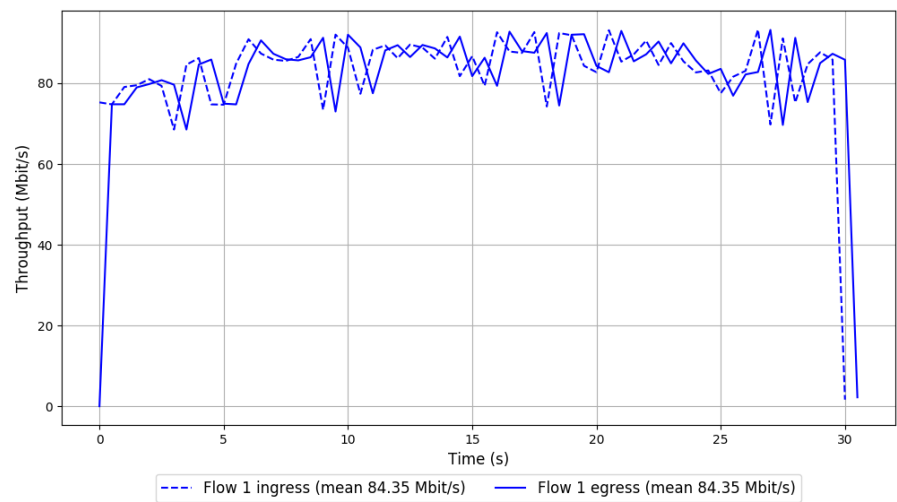## Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: 2018-08-01 02:39:55
End at: 2018-08-01 02:40:25
Local clock offset: -2.269 ms
Remote clock offset: -2.773 ms


# Below is generated by plot.py at 2018-08-01 03:20:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 4.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 4.159 ms
Loss rate: 0.00%
```

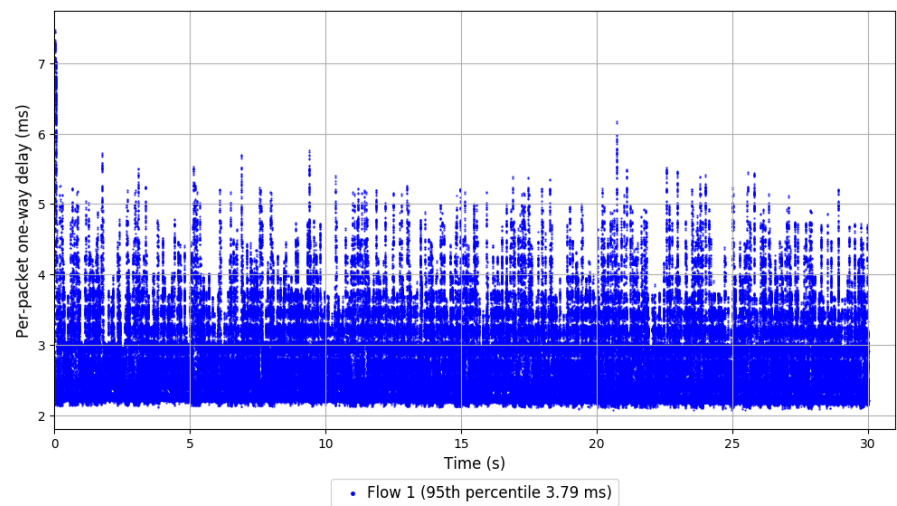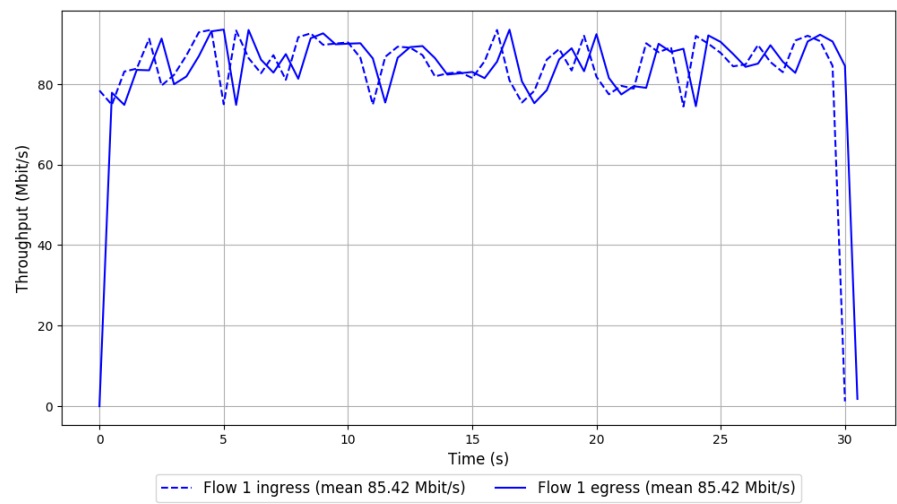Run 9: Report of Copa — Data Link

```
Run 10: Statistics of Copa

Start at: 2018-08-01 02:59:03
End at: 2018-08-01 02:59:33
Local clock offset: -3.209 ms
Remote clock offset: -3.136 ms


# Below is generated by plot.py at 2018-08-01 03:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 3.791 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.42 Mbit/s
95th percentile per-packet one-way delay: 3.791 ms
Loss rate: 0.00%
```

Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 85.42 Mbit/s)   Flow 1 egress (mean 85.42 Mbit/s)

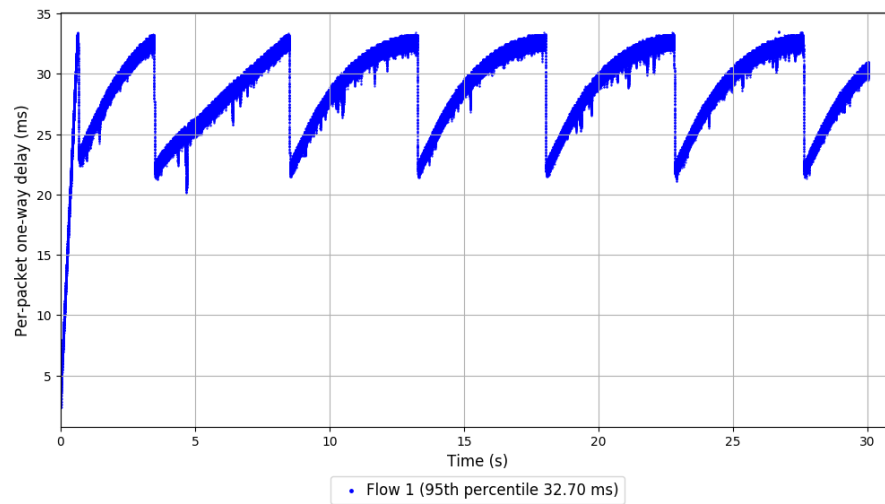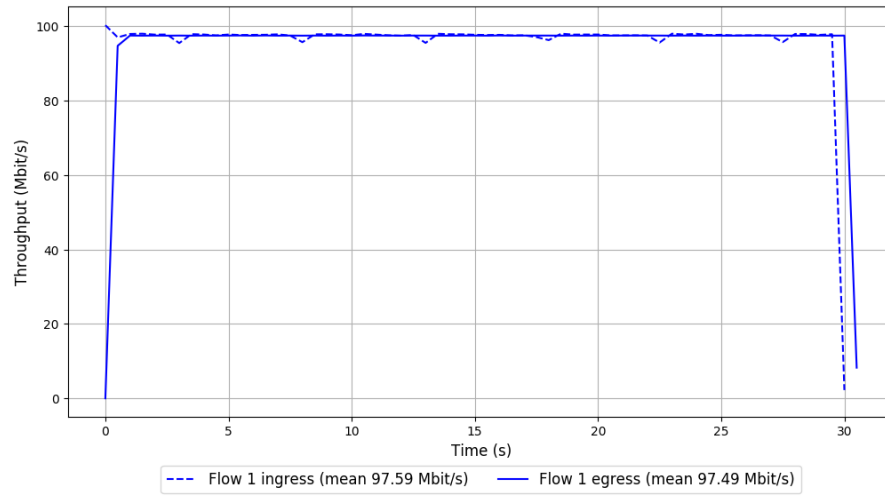Flow 1 (95th percentile 3.79 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2018-08-01 00:18:53
End at: 2018-08-01 00:19:23
Local clock offset: 1.923 ms
Remote clock offset: -1.647 ms


# Below is generated by plot.py at 2018-08-01 03:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 32.701 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 32.701 ms
Loss rate: 0.01%
```
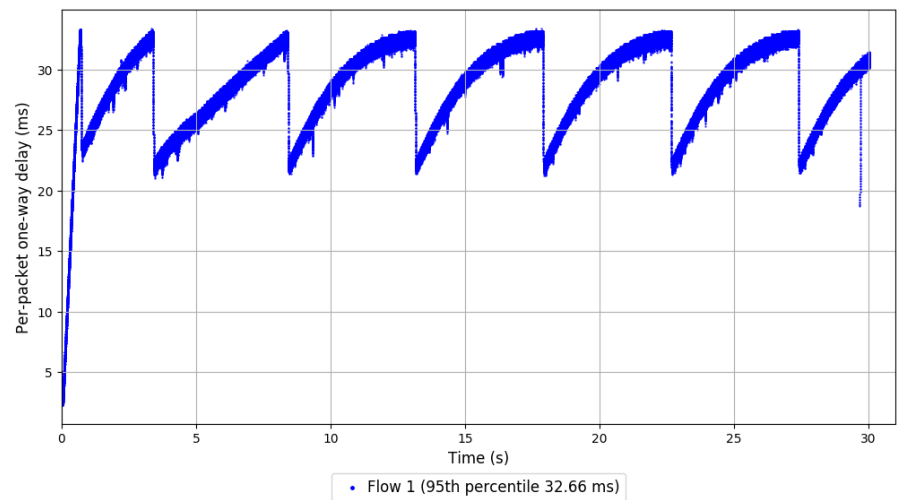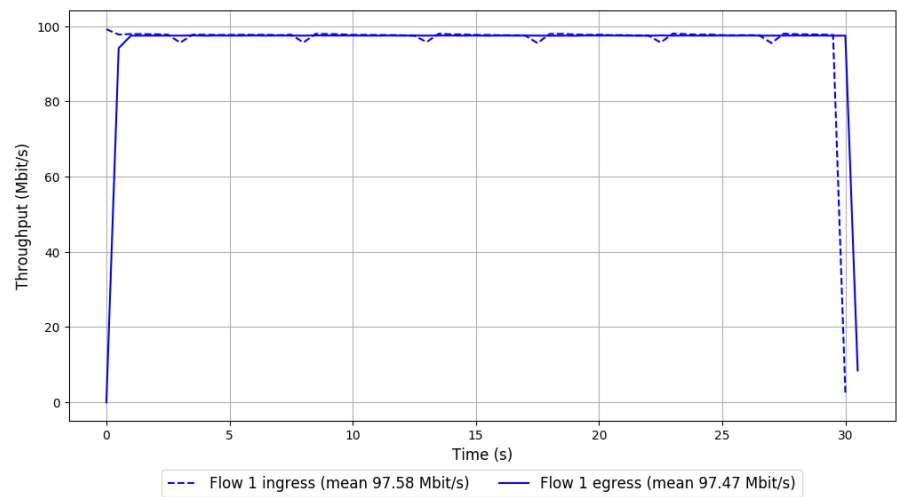
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2018-08-01 00:37:51
End at: 2018-08-01 00:38:21
Local clock offset: 3.253 ms
Remote clock offset: -2.421 ms


# Below is generated by plot.py at 2018-08-01 03:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.659 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.659 ms
Loss rate: 0.01%
```

Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.58 Mbit/s) — — — Flow 1 egress (mean 97.47 Mbit/s)

• Flow 1 (95th percentile 32.66 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2018-08-01 00:56:54
End at: 2018-08-01 00:57:24
Local clock offset: 1.344 ms
Remote clock offset: -2.4 ms


# Below is generated by plot.py at 2018-08-01 03:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.203 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.203 ms
Loss rate: 0.01%
```
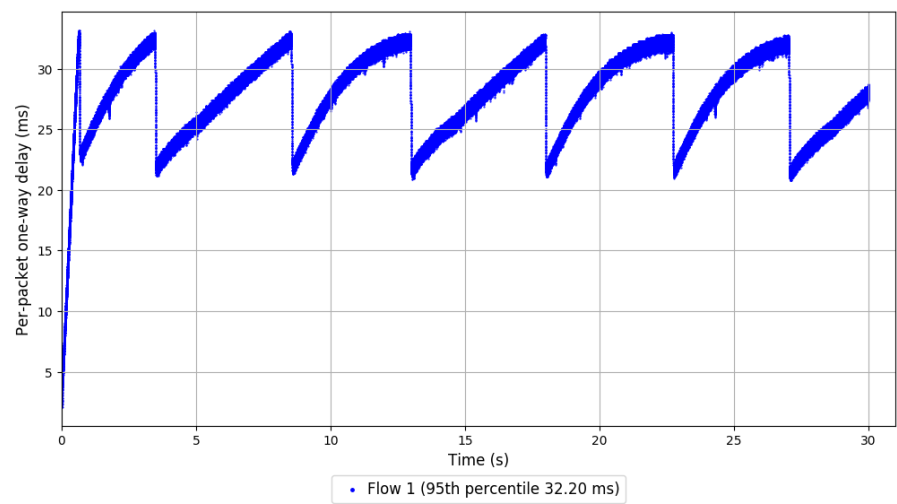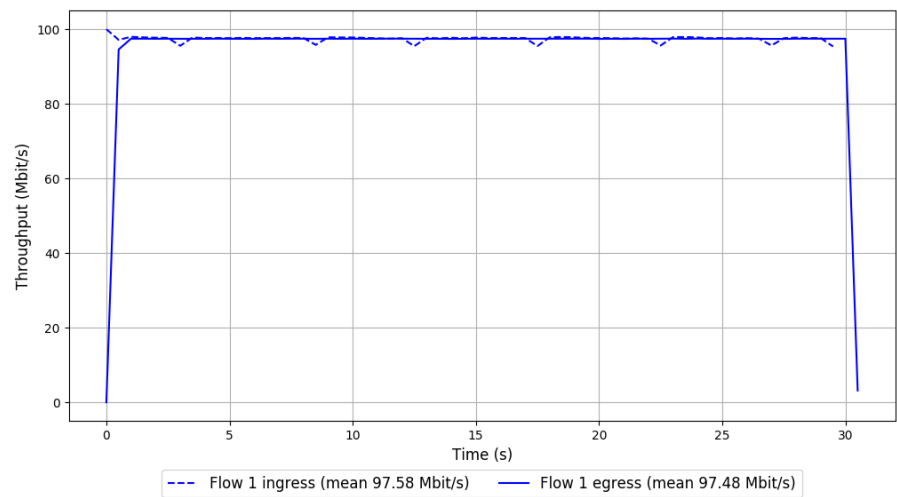
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.58 Mbit/s)　　Flow 1 egress (mean 97.48 Mbit/s)

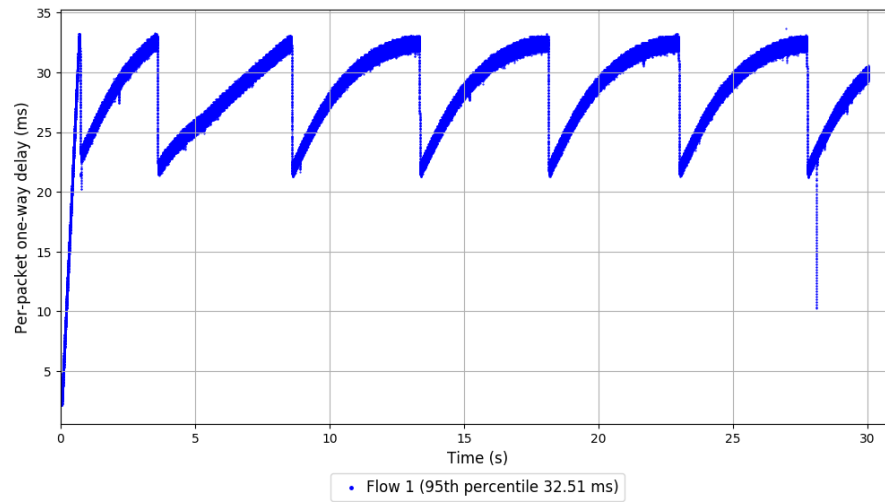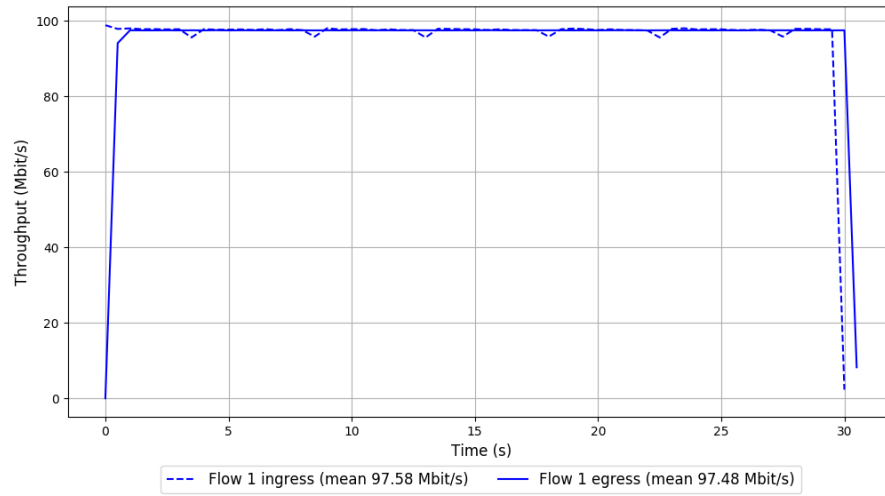Flow 1 (95th percentile 32.20 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2018-08-01 01:15:55
End at: 2018-08-01 01:16:25
Local clock offset: -3.501 ms
Remote clock offset: -2.939 ms

# Below is generated by plot.py at 2018-08-01 03:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.511 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.511 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.58 Mbit/s)   Flow 1 egress (mean 97.48 Mbit/s)
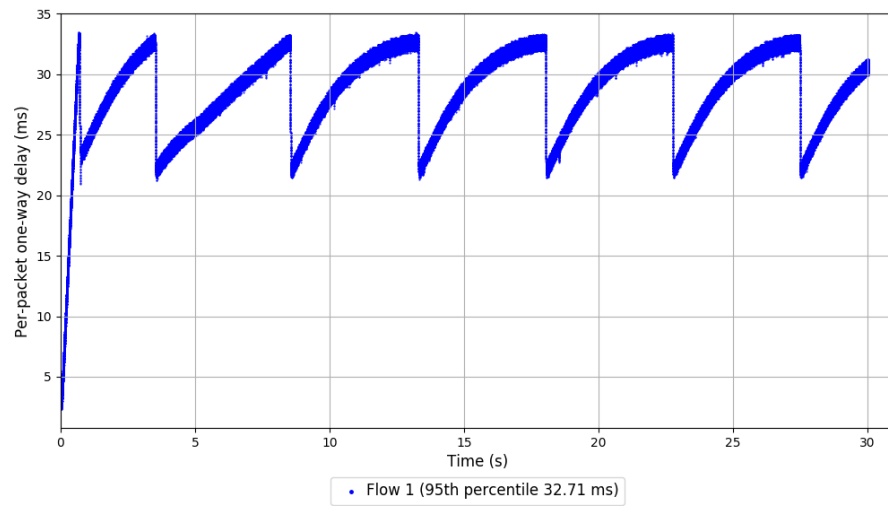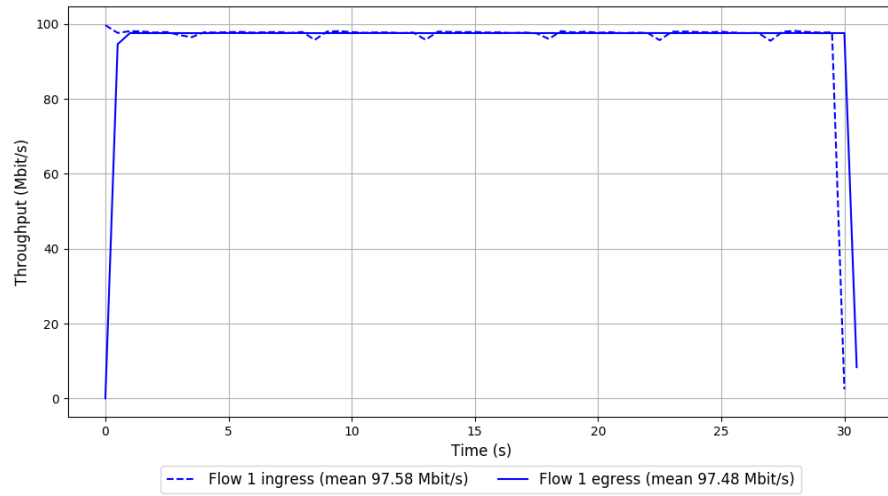

Flow 1 (95th percentile 32.51 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2018-08-01 01:34:58
End at: 2018-08-01 01:35:28
Local clock offset: -3.657 ms
Remote clock offset: -2.652 ms


# Below is generated by plot.py at 2018-08-01 03:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.711 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.711 ms
Loss rate: 0.01%
```

Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.58 Mbit/s)   Flow 1 egress (mean 97.48 Mbit/s)

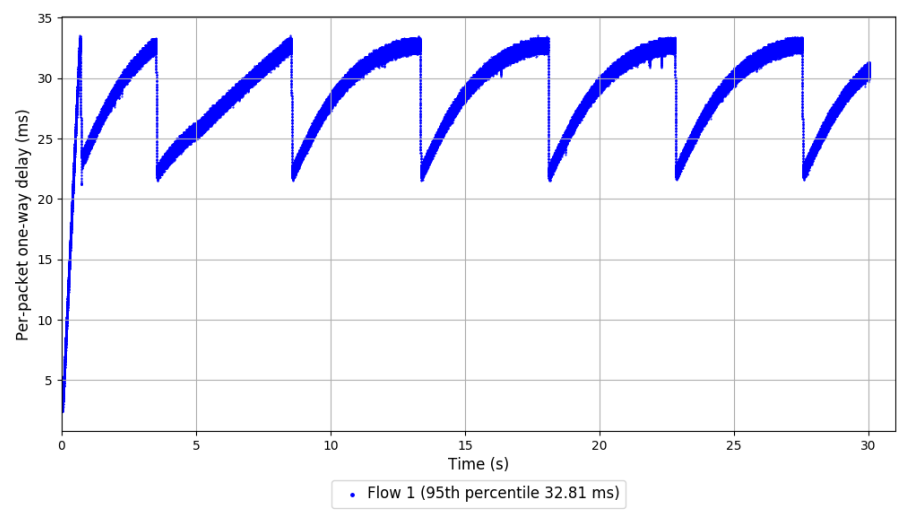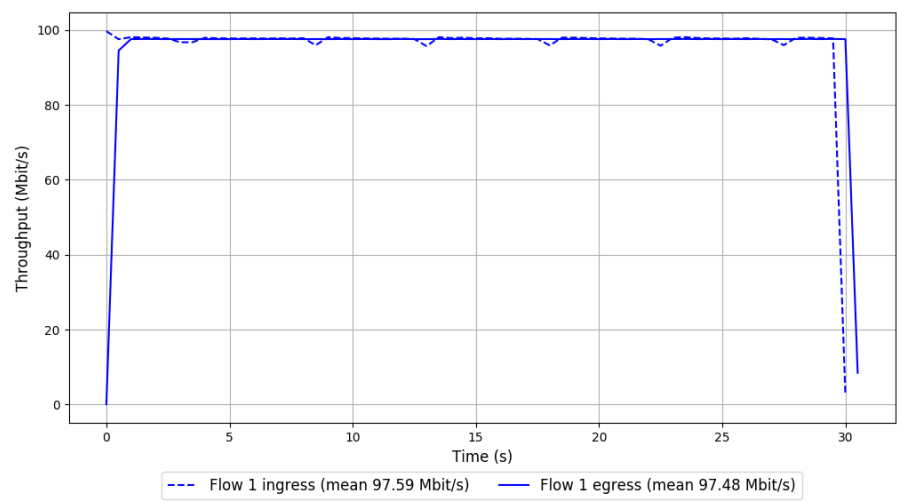Flow 1 (95th percentile 32.71 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-08-01 01:54:00
End at: 2018-08-01 01:54:30
Local clock offset: -3.758 ms
Remote clock offset: -2.466 ms


# Below is generated by plot.py at 2018-08-01 03:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.815 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.815 ms
Loss rate: 0.01%
```

Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.59 Mbit/s)   Flow 1 egress (mean 97.48 Mbit/s)
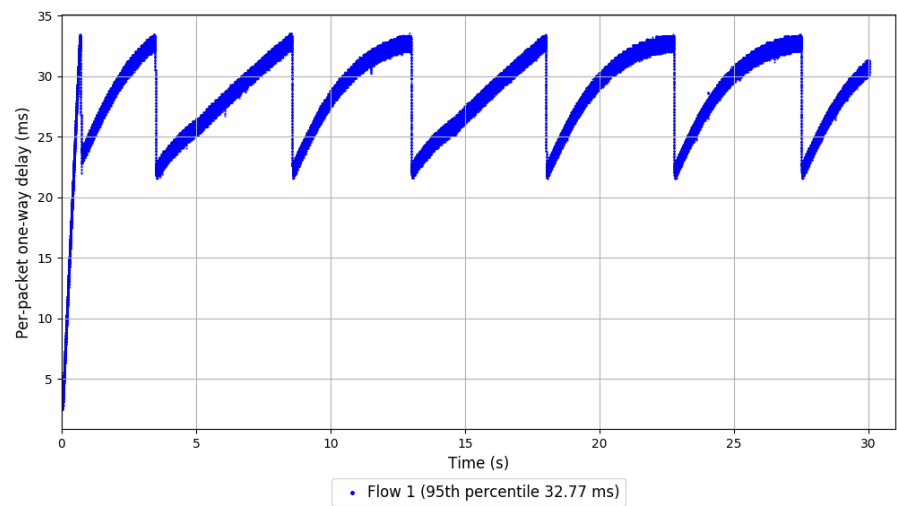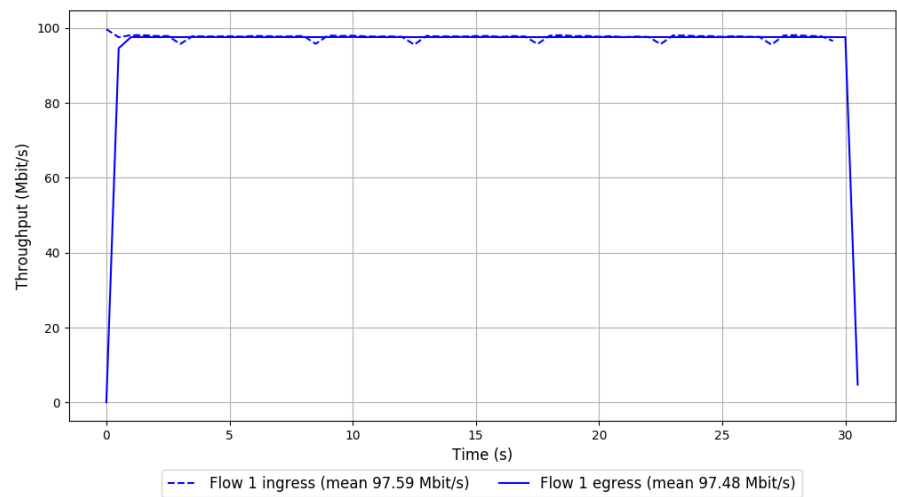

Flow 1 (95th percentile 32.81 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2018-08-01 02:13:02
End at: 2018-08-01 02:13:32
Local clock offset: -2.197 ms
Remote clock offset: -2.595 ms


# Below is generated by plot.py at 2018-08-01 03:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.774 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.774 ms
Loss rate: 0.01%
```

Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.59 Mbit/s)   Flow 1 egress (mean 97.48 Mbit/s)

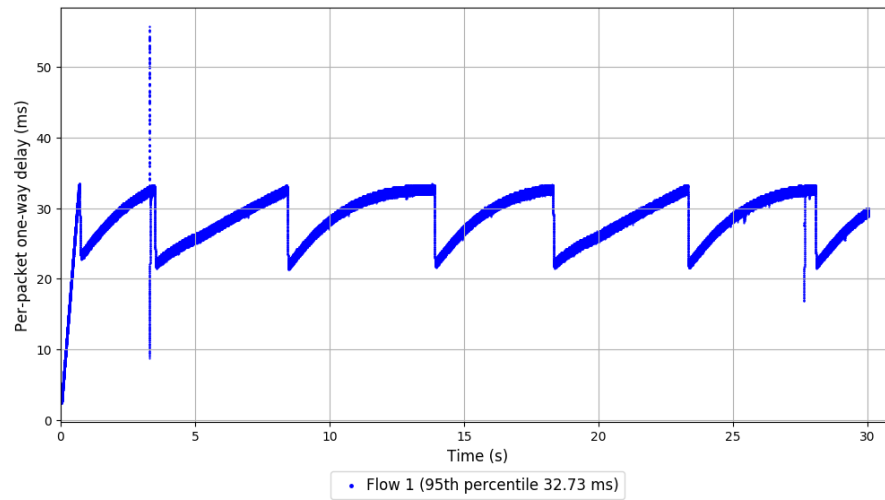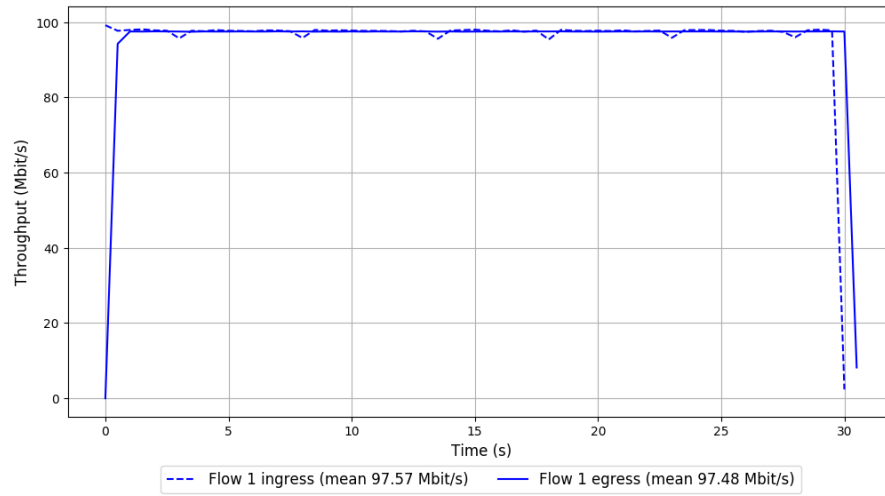Flow 1 (95th percentile 32.77 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-08-01 02:32:09
End at: 2018-08-01 02:32:39
Local clock offset: -2.208 ms
Remote clock offset: -2.727 ms


# Below is generated by plot.py at 2018-08-01 03:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.735 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.735 ms
Loss rate: 0.01%
```

Run 8: Report of TCP Cubic — Data Link

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

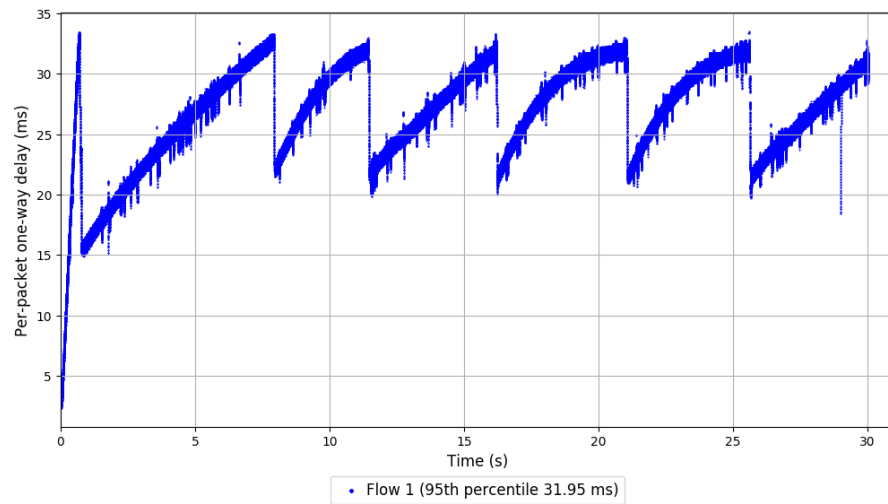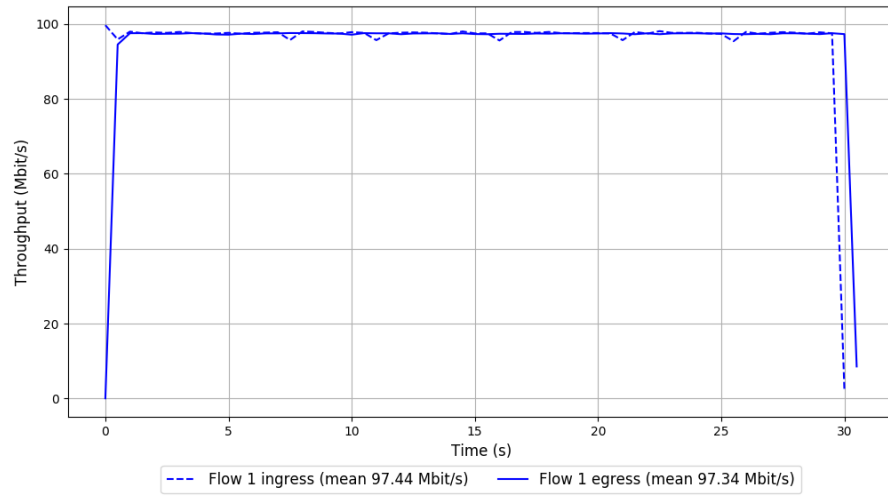Flow 1 (95th percentile 32.73 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2018-08-01 02:51:16
End at: 2018-08-01 02:51:46
Local clock offset: -2.275 ms
Remote clock offset: -2.931 ms


# Below is generated by plot.py at 2018-08-01 03:20:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 31.950 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 31.950 ms
Loss rate: 0.01%
```
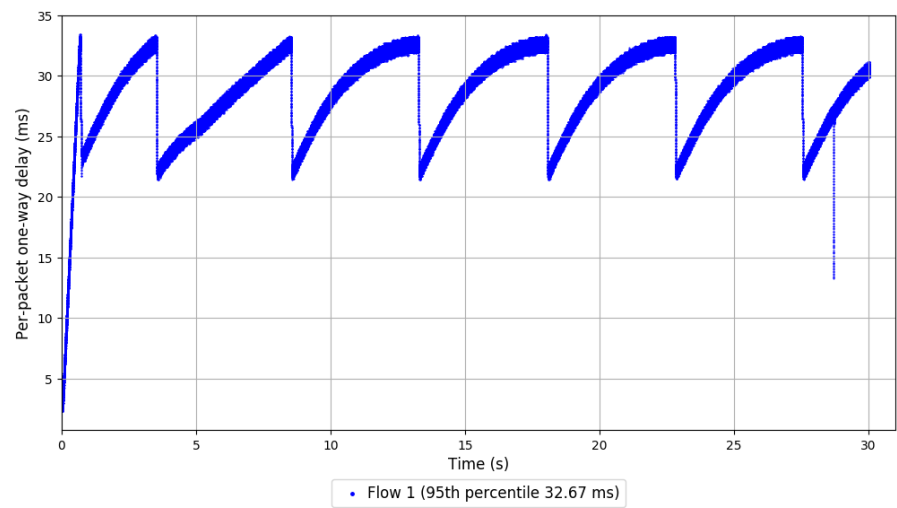
Run 9: Report of TCP Cubic — Data Link

```
Run 10: Statistics of TCP Cubic

Start at: 2018-08-01 03:10:19
End at: 2018-08-01 03:10:49
Local clock offset: -3.946 ms
Remote clock offset: -3.038 ms


# Below is generated by plot.py at 2018-08-01 03:20:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 32.673 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 32.673 ms
Loss rate: 0.01%
```
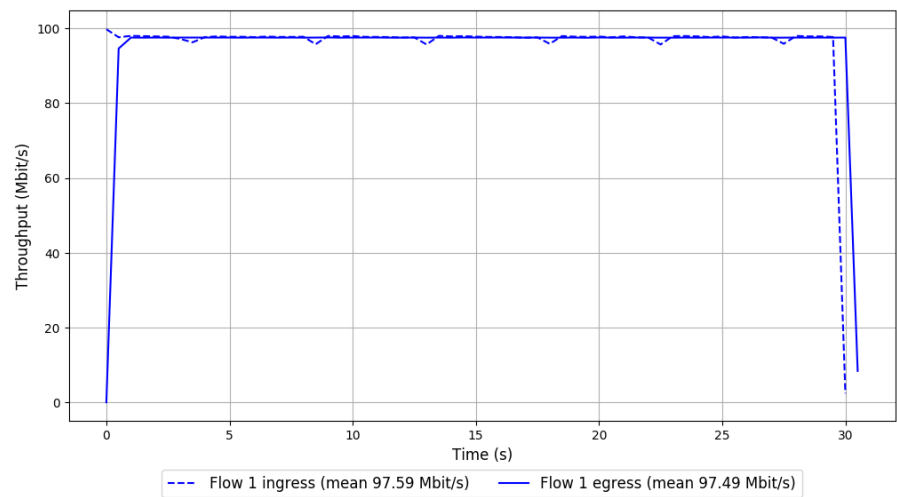
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.59 Mbit/s)   Flow 1 egress (mean 97.49 Mbit/s)

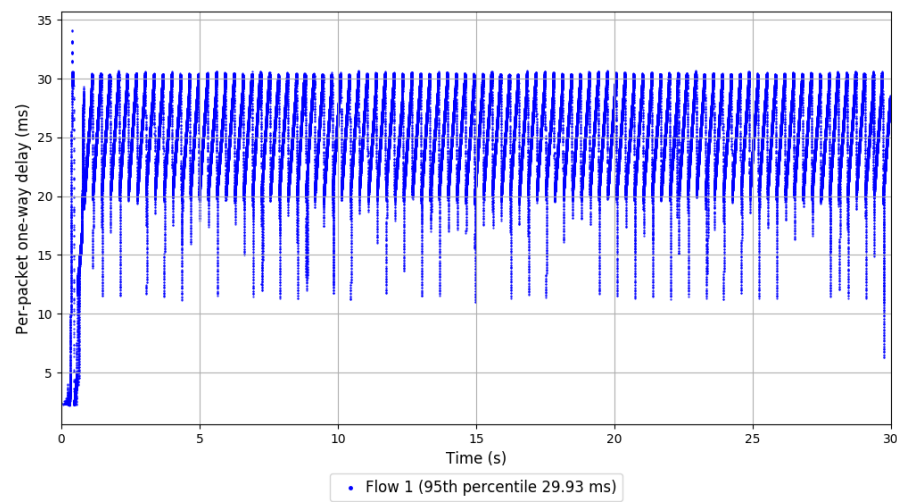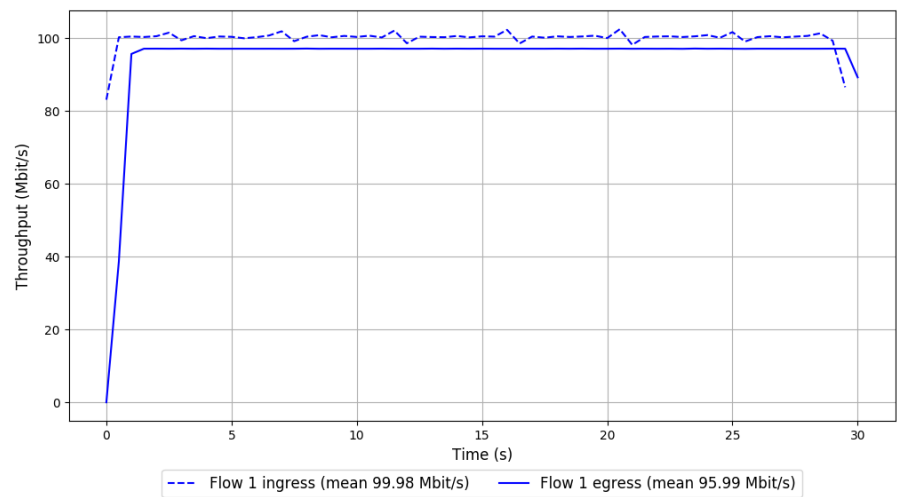

• Flow 1 (95th percentile 32.67 ms)

```
Run 1: Statistics of FillP

Start at: 2018-08-01 00:11:02
End at: 2018-08-01 00:11:32
Local clock offset: 1.337 ms
Remote clock offset: -1.862 ms

# Below is generated by plot.py at 2018-08-01 03:21:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 29.935 ms
Loss rate: 3.91%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 29.935 ms
Loss rate: 3.91%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 99.98 Mbit/s)   Flow 1 egress (mean 95.99 Mbit/s)

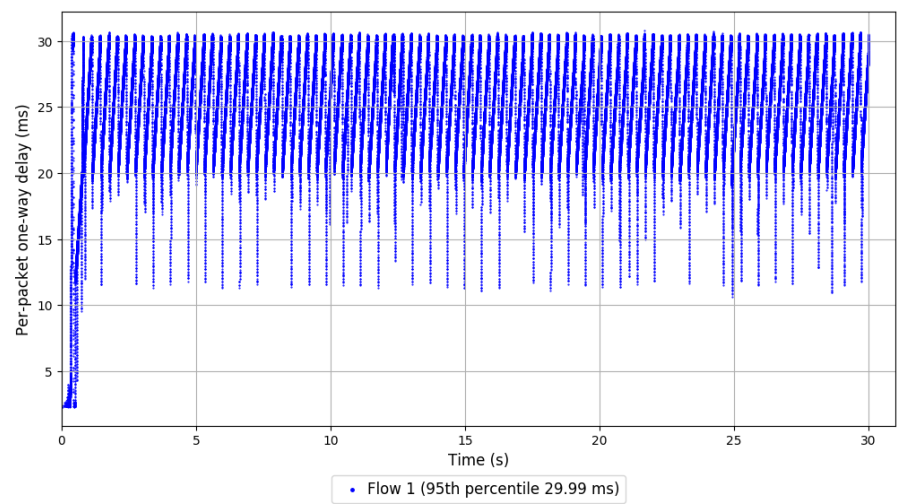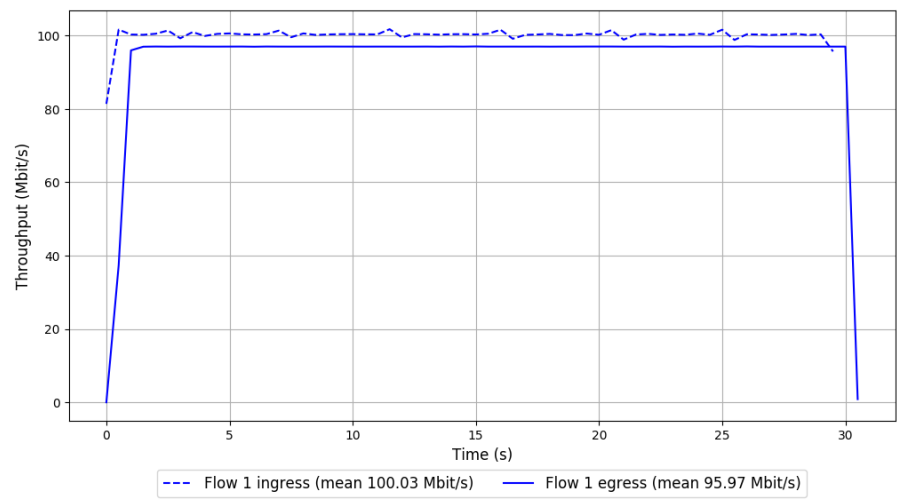Flow 1 (95th percentile 29.93 ms)

```
Run 2: Statistics of FillP

Start at: 2018-08-01 00:30:01
End at: 2018-08-01 00:30:31
Local clock offset: 2.665 ms
Remote clock offset: -2.243 ms


# Below is generated by plot.py at 2018-08-01 03:21:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.986 ms
Loss rate: 3.97%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.986 ms
Loss rate: 3.97%
```

Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 100.03 Mbit/s) --- Flow 1 egress (mean 95.97 Mbit/s)

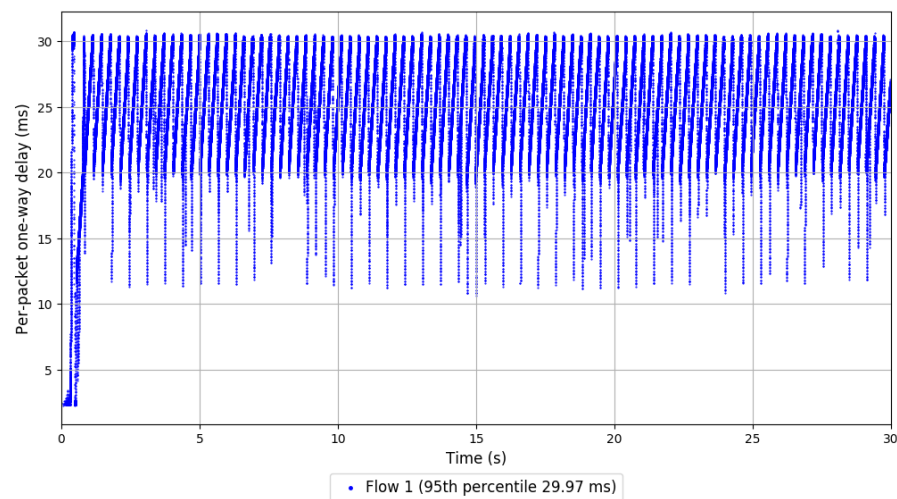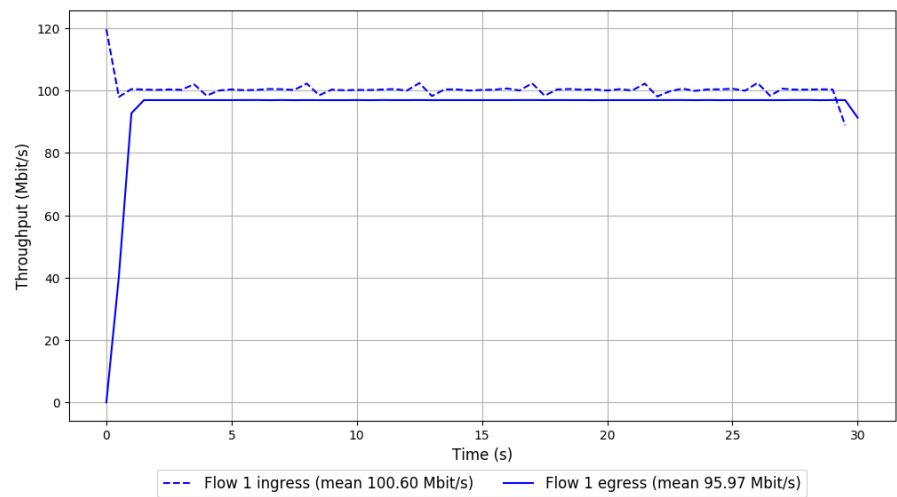Flow 1 (95th percentile 29.99 ms)

```
Run 3: Statistics of FillP

Start at: 2018-08-01 00:49:03
End at: 2018-08-01 00:49:33
Local clock offset: 4.016 ms
Remote clock offset: -2.405 ms


# Below is generated by plot.py at 2018-08-01 03:22:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.966 ms
Loss rate: 4.53%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.966 ms
Loss rate: 4.53%
```

Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 100.60 Mbit/s) ----   Flow 1 egress (mean 95.97 Mbit/s) ——

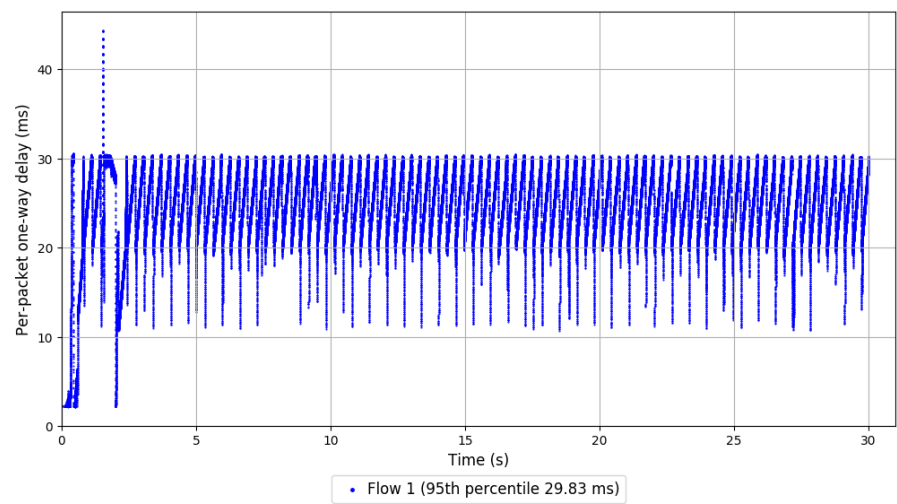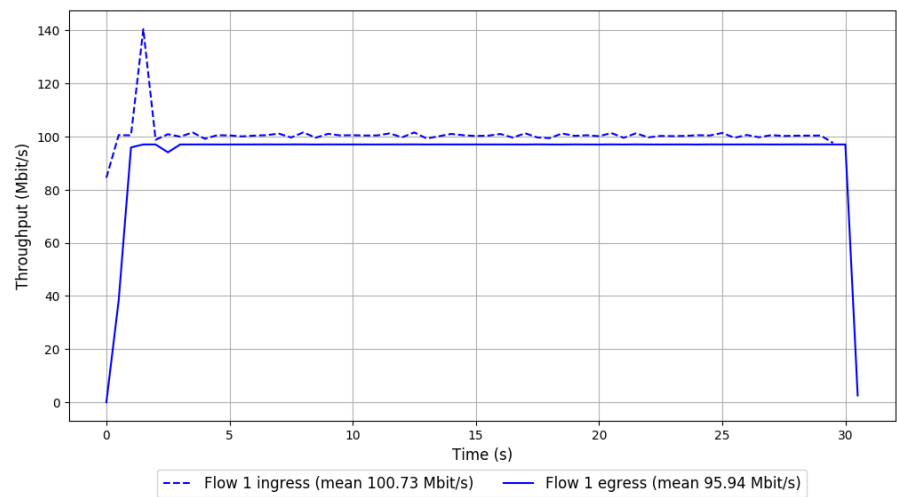• Flow 1 (95th percentile 29.97 ms)

```
Run 4: Statistics of FillP

Start at: 2018-08-01 01:08:05
End at: 2018-08-01 01:08:35
Local clock offset: -2.371 ms
Remote clock offset: -2.776 ms


# Below is generated by plot.py at 2018-08-01 03:22:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 29.830 ms
Loss rate: 4.67%
-- Flow 1:
Average throughput: 95.94 Mbit/s
95th percentile per-packet one-way delay: 29.830 ms
Loss rate: 4.67%
```

Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 100.73 Mbit/s)   Flow 1 egress (mean 95.94 Mbit/s)

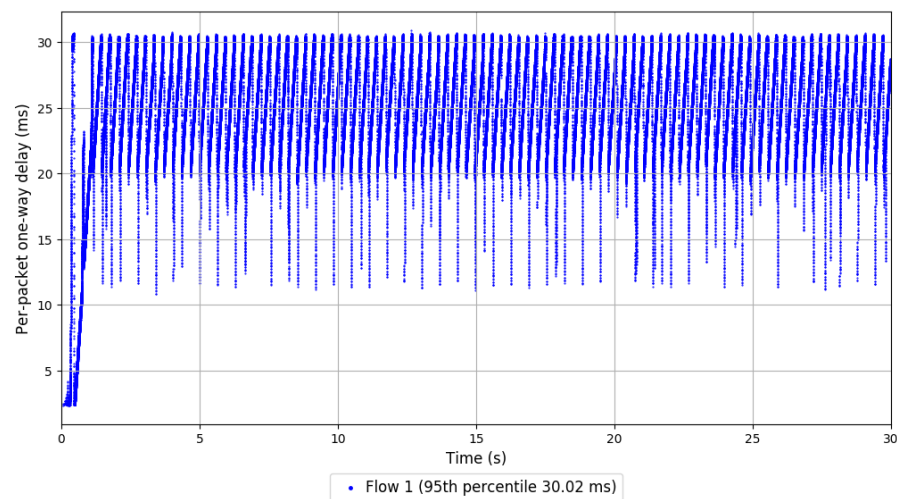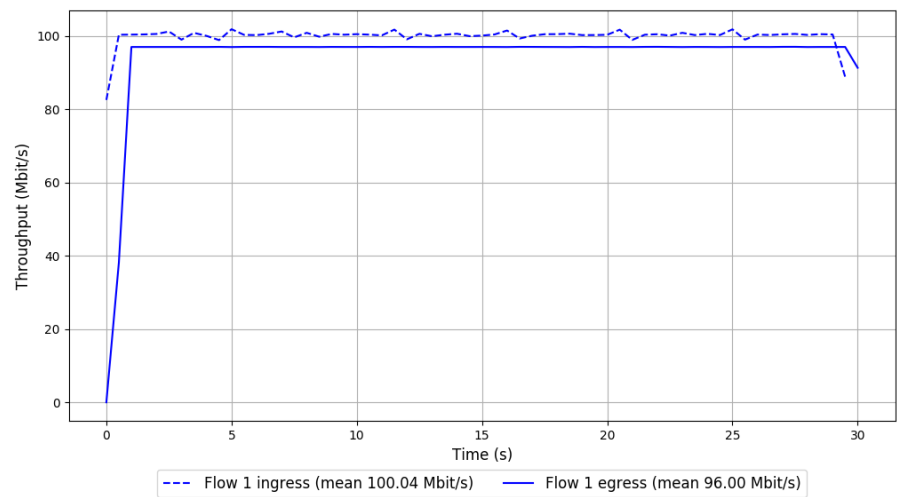Flow 1 (95th percentile 29.83 ms)

```
Run 5: Statistics of FillP

Start at: 2018-08-01 01:27:07
End at: 2018-08-01 01:27:37
Local clock offset: -3.851 ms
Remote clock offset: -2.851 ms


# Below is generated by plot.py at 2018-08-01 03:22:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 30.019 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 30.019 ms
Loss rate: 3.96%
```

Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 100.04 Mbit/s) --- Flow 1 egress (mean 96.00 Mbit/s)

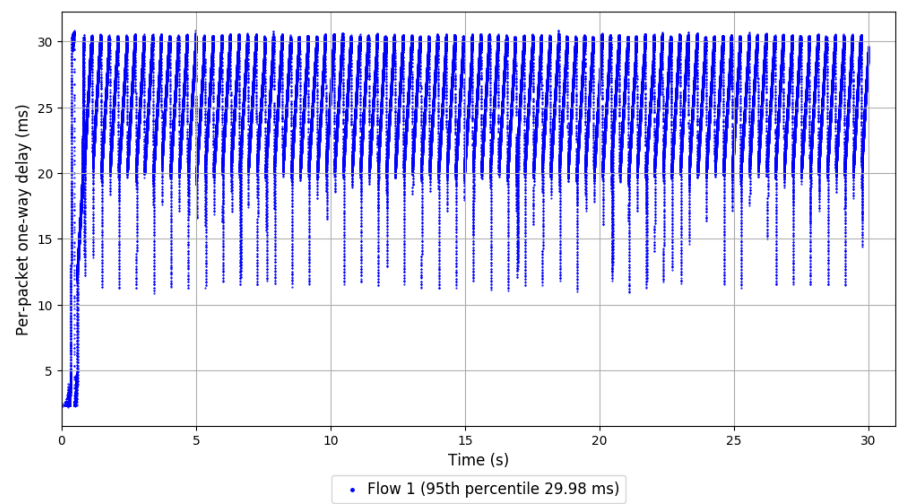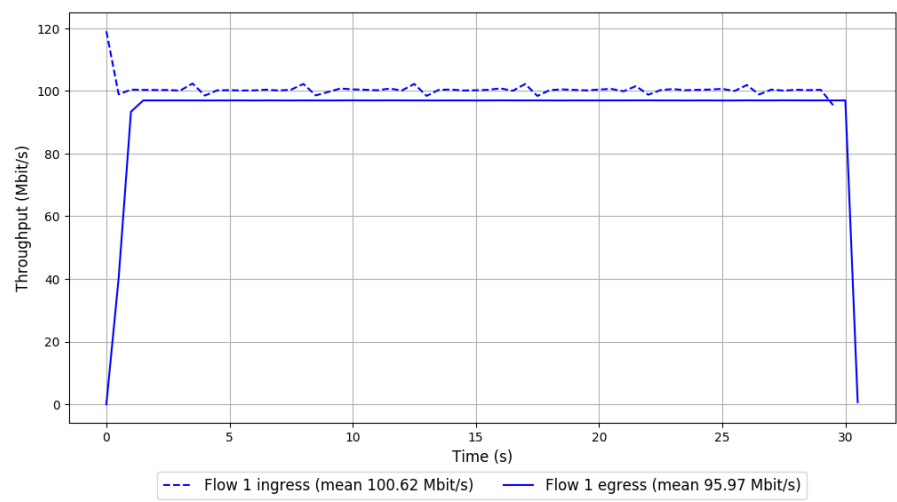• Flow 1 (95th percentile 30.02 ms)

```
Run 6: Statistics of FillP

Start at: 2018-08-01 01:46:09
End at: 2018-08-01 01:46:39
Local clock offset: -3.849 ms
Remote clock offset: -2.468 ms

# Below is generated by plot.py at 2018-08-01 03:22:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.977 ms
Loss rate: 4.53%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.977 ms
Loss rate: 4.53%
```

Run 6: Report of FillP — Data Link

Flow 1 ingress (mean 100.62 Mbit/s)   Flow 1 egress (mean 95.97 Mbit/s)

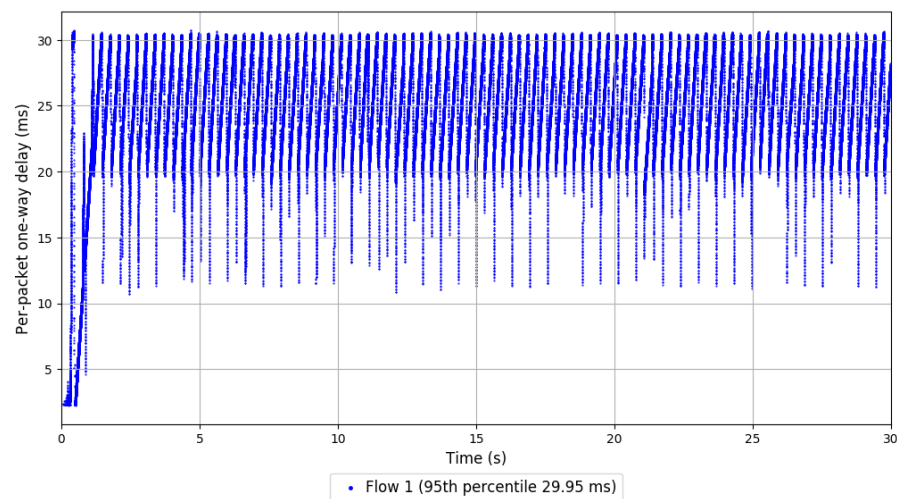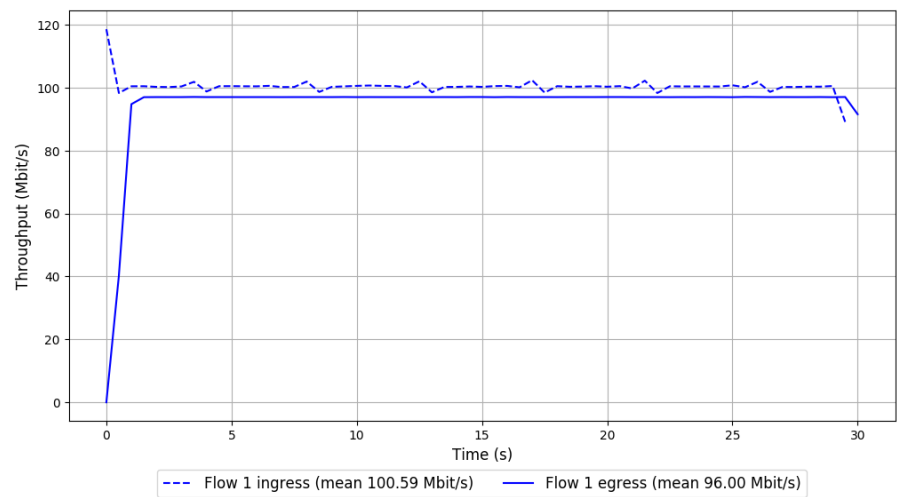Flow 1 (95th percentile 29.98 ms)

```
Run 7: Statistics of FillP

Start at: 2018-08-01 02:05:11
End at: 2018-08-01 02:05:41
Local clock offset: -2.426 ms
Remote clock offset: -2.461 ms


# Below is generated by plot.py at 2018-08-01 03:22:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 29.945 ms
Loss rate: 4.48%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 29.945 ms
Loss rate: 4.48%
```

Run 7: Report of FillP — Data Link

Flow 1 ingress (mean 100.59 Mbit/s) — — — — Flow 1 egress (mean 96.00 Mbit/s)

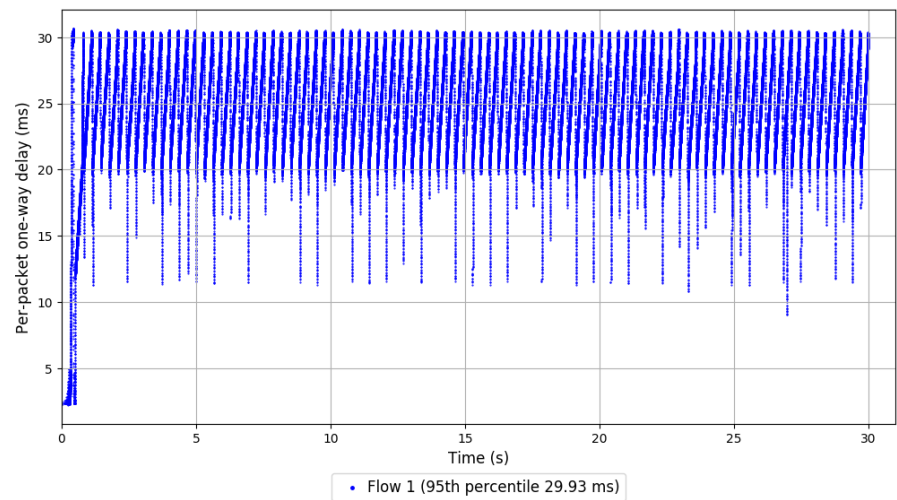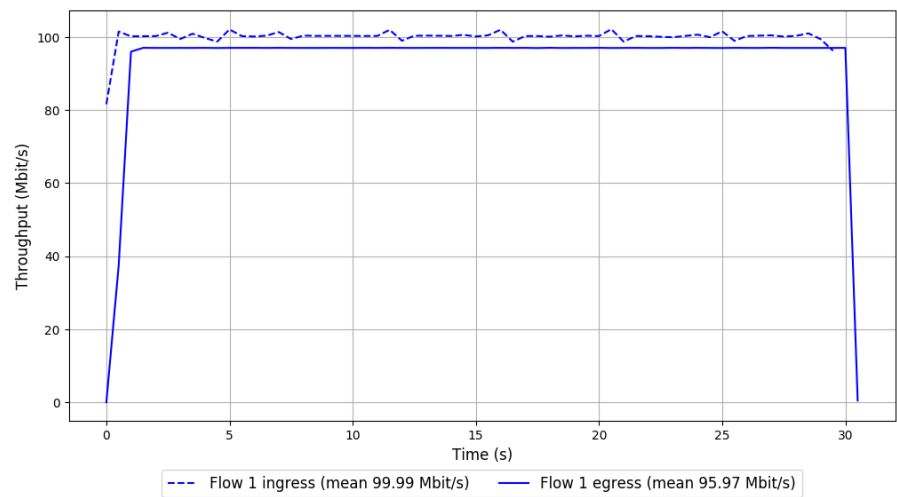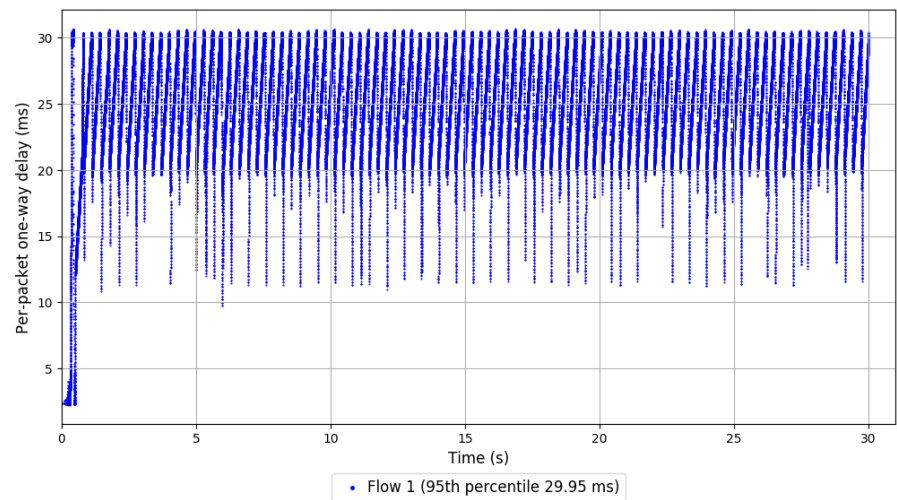• Flow 1 (95th percentile 29.95 ms)

```
Run 8: Statistics of FillP

Start at: 2018-08-01 02:24:18
End at: 2018-08-01 02:24:48
Local clock offset: -2.053 ms
Remote clock offset: -2.725 ms


# Below is generated by plot.py at 2018-08-01 03:22:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.929 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.929 ms
Loss rate: 3.93%
```

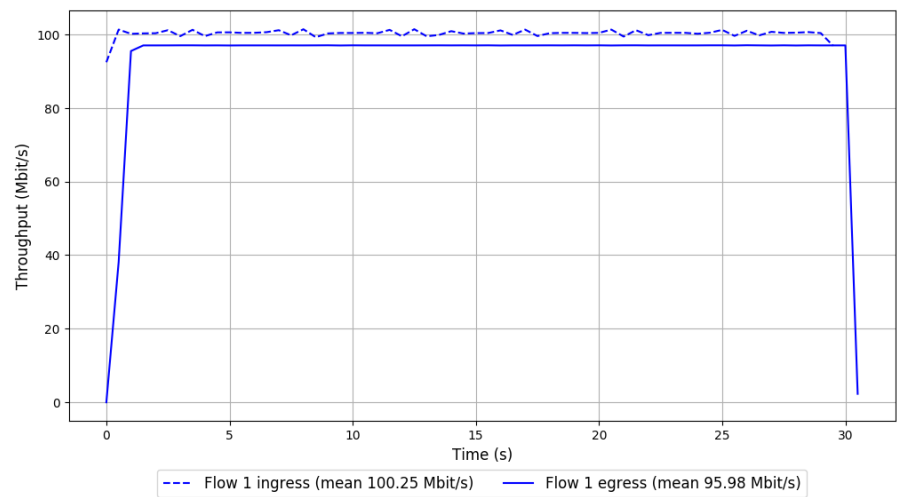# Run 8: Report of FillP — Data Link

```
Run 9: Statistics of FillP

Start at: 2018-08-01 02:43:21
End at: 2018-08-01 02:43:51
Local clock offset: -2.235 ms
Remote clock offset: -2.876 ms


# Below is generated by plot.py at 2018-08-01 03:23:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 29.946 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 29.946 ms
Loss rate: 4.17%
```

Run 9: Report of FillP — Data Link

Flow 1 ingress (mean 100.25 Mbit/s)   —— Flow 1 egress (mean 95.98 Mbit/s)

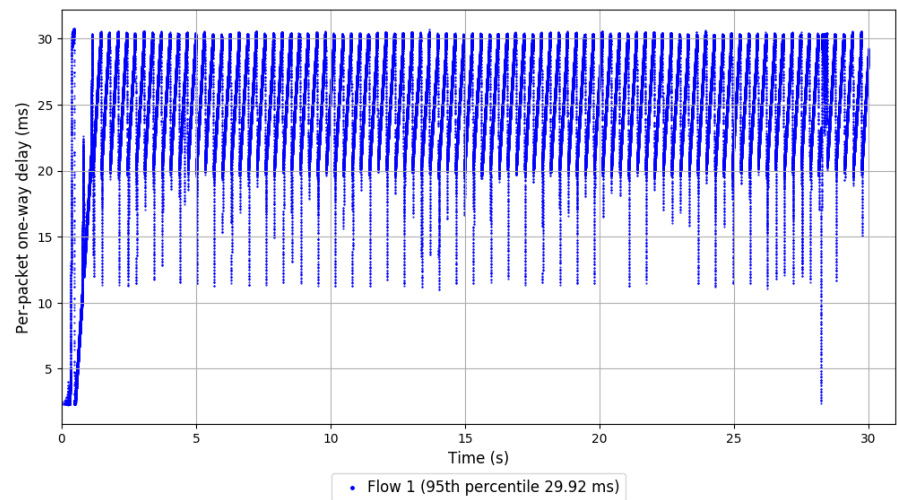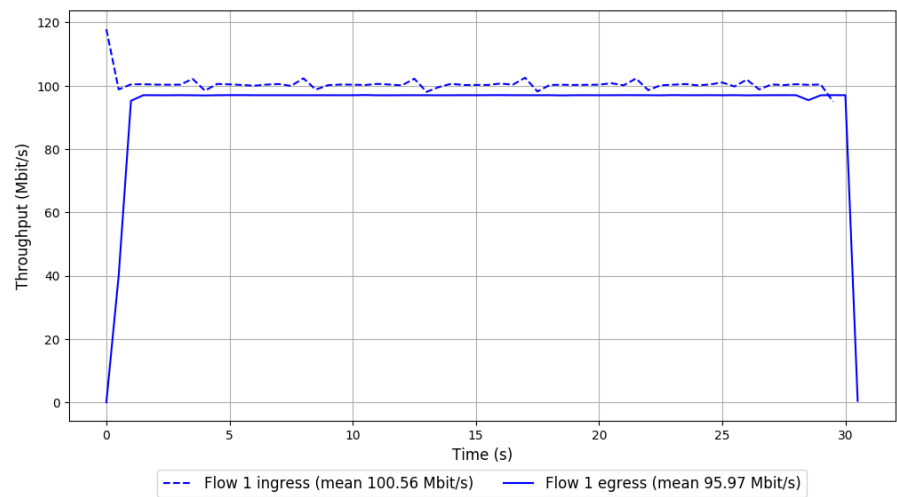• Flow 1 (95th percentile 29.95 ms)

```
Run 10: Statistics of FillP

Start at: 2018-08-01 03:02:28
End at: 2018-08-01 03:02:58
Local clock offset: -3.494 ms
Remote clock offset: -3.002 ms


# Below is generated by plot.py at 2018-08-01 03:23:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.923 ms
Loss rate: 4.48%
-- Flow 1:
Average throughput: 95.97 Mbit/s
95th percentile per-packet one-way delay: 29.923 ms
Loss rate: 4.48%
```
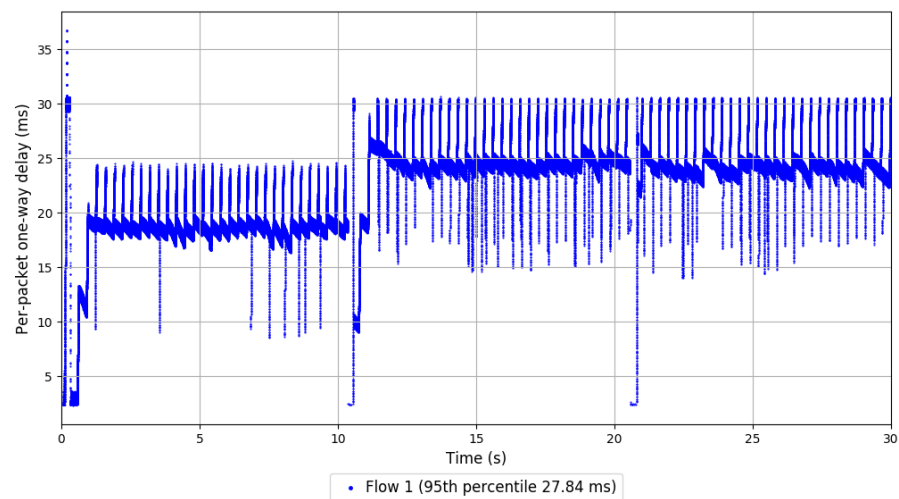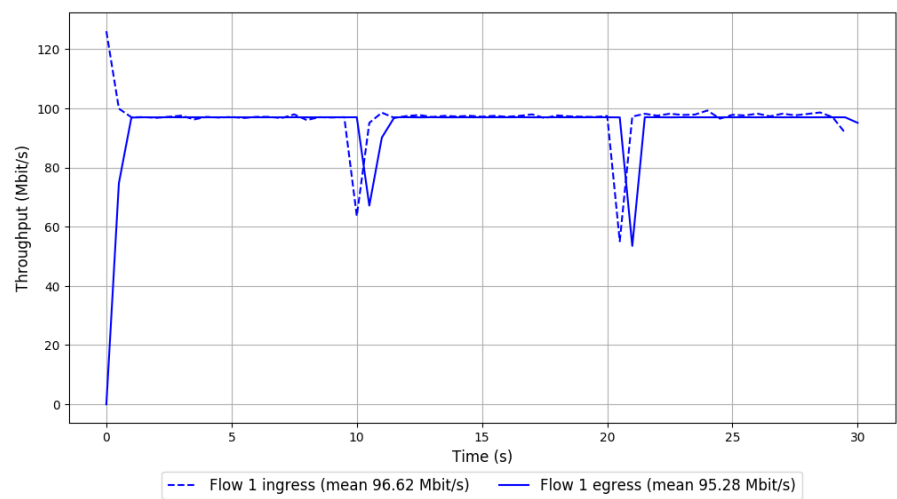
Run 10: Report of FillP — Data Link

Flow 1 ingress (mean 100.56 Mbit/s) --- Flow 1 egress (mean 95.97 Mbit/s)

Flow 1 (95th percentile 29.92 ms)

```
Run 1: Statistics of FillP-Sheep

Start at: 2018-08-01 00:06:30
End at: 2018-08-01 00:07:00
Local clock offset: 1.026 ms
Remote clock offset: -1.84 ms


# Below is generated by plot.py at 2018-08-01 03:23:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 27.844 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 27.844 ms
Loss rate: 1.32%
```
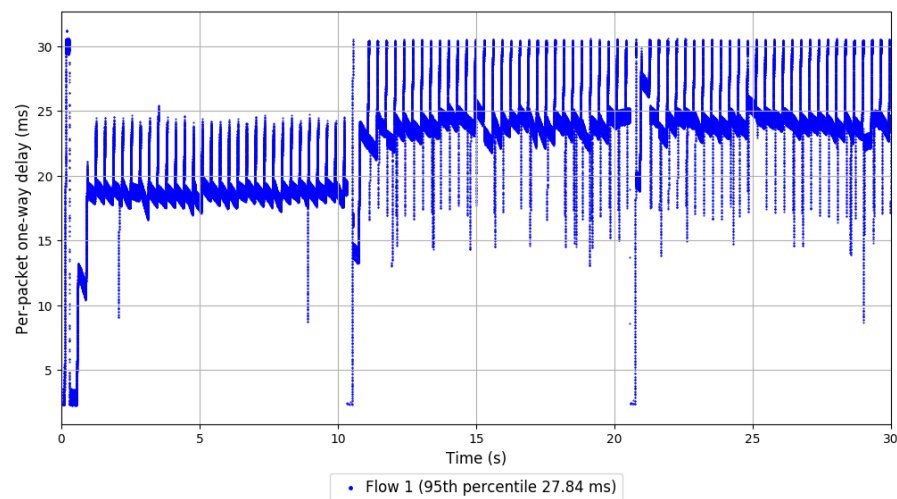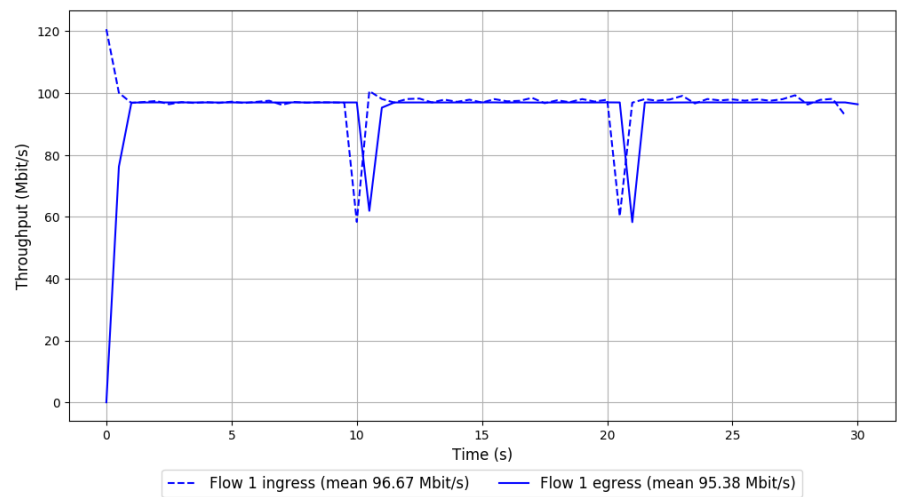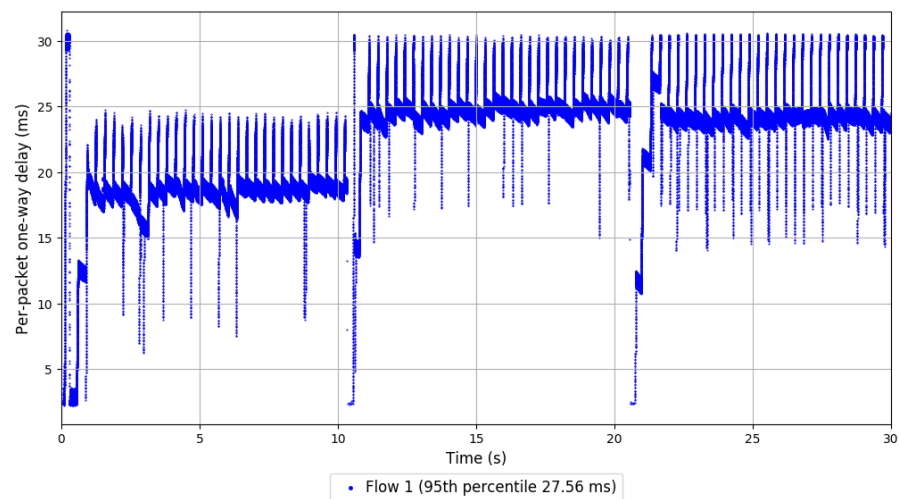
Run 1: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 96.62 Mbit/s)   Flow 1 egress (mean 95.28 Mbit/s)

Flow 1 (95th percentile 27.84 ms)

```
Run 2: Statistics of FillP-Sheep

Start at: 2018-08-01 00:25:29
End at: 2018-08-01 00:25:59
Local clock offset: 2.375 ms
Remote clock offset: -1.96 ms


# Below is generated by plot.py at 2018-08-01 03:23:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 27.842 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 95.38 Mbit/s
95th percentile per-packet one-way delay: 27.842 ms
Loss rate: 1.27%
```
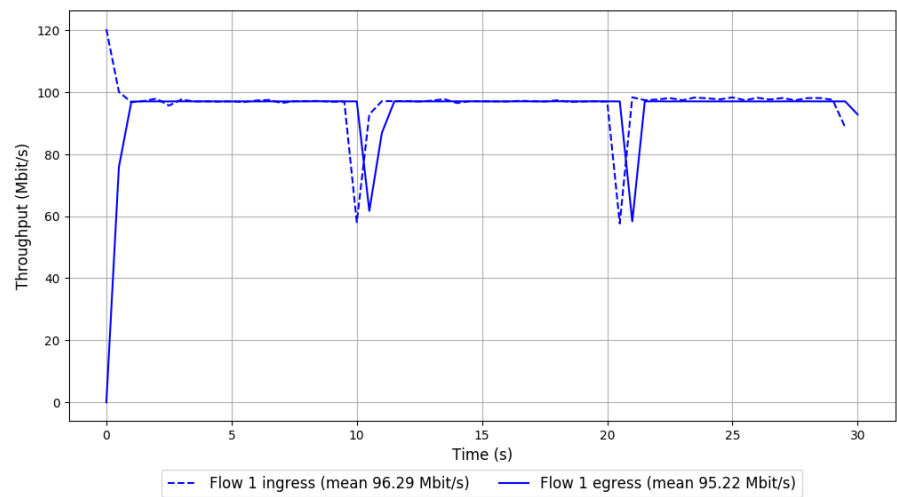
Run 2: Report of FillP-Sheep — Data Link

```
Run 3: Statistics of FillP-Sheep

Start at: 2018-08-01 00:44:31
End at: 2018-08-01 00:45:01
Local clock offset: 3.698 ms
Remote clock offset: -2.393 ms


# Below is generated by plot.py at 2018-08-01 03:23:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.22 Mbit/s
95th percentile per-packet one-way delay: 27.564 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 95.22 Mbit/s
95th percentile per-packet one-way delay: 27.564 ms
Loss rate: 1.04%
```

Run 3: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 96.29 Mbit/s) --- Flow 1 egress (mean 95.22 Mbit/s)
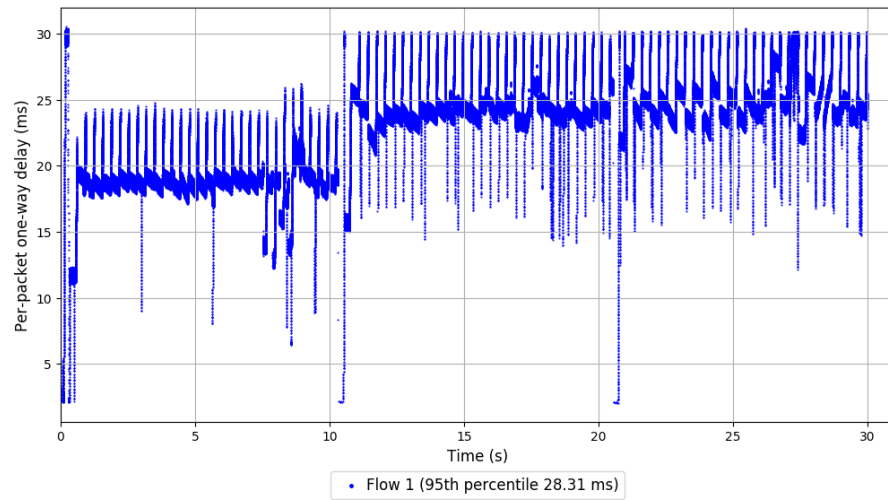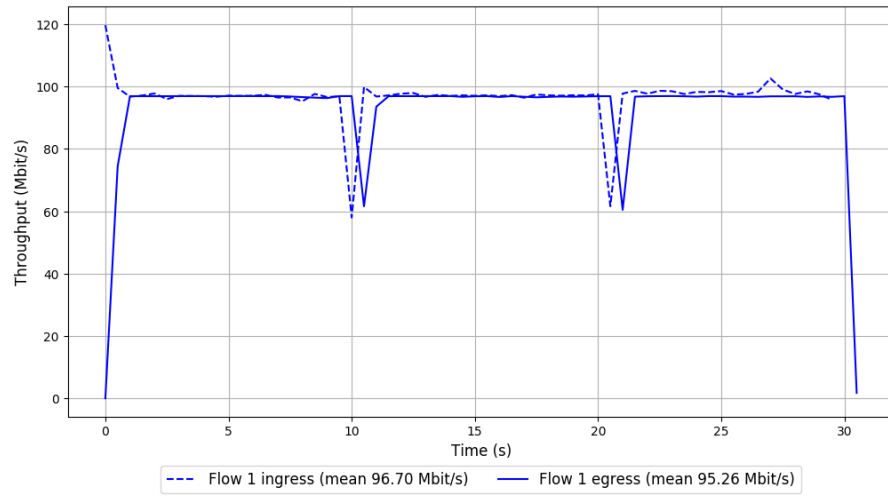

Flow 1 (95th percentile 27.56 ms)

```
Run 4: Statistics of FillP-Sheep

Start at: 2018-08-01 01:03:33
End at: 2018-08-01 01:04:03
Local clock offset: -1.344 ms
Remote clock offset: -2.746 ms


# Below is generated by plot.py at 2018-08-01 03:23:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 28.312 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 28.312 ms
Loss rate: 1.41%
```
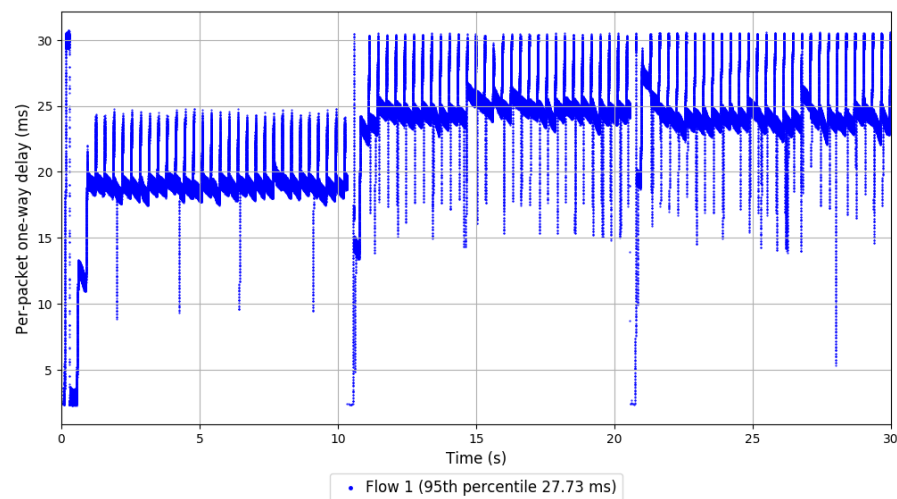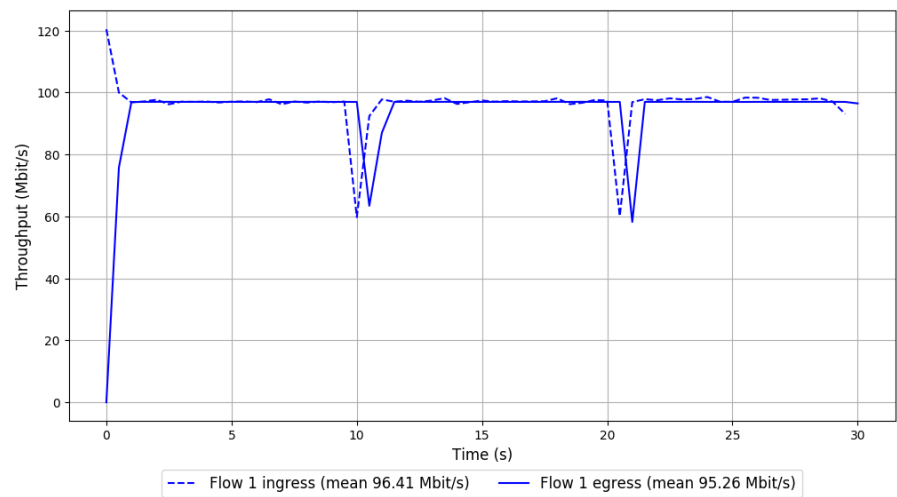
Run 4: Report of FillP-Sheep — Data Link

```
Run 5: Statistics of FillP-Sheep

Start at: 2018-08-01 01:22:35
End at: 2018-08-01 01:23:05
Local clock offset: -4.081 ms
Remote clock offset: -2.795 ms


# Below is generated by plot.py at 2018-08-01 03:23:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 27.730 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 27.730 ms
Loss rate: 1.13%
```

Run 5: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 96.41 Mbit/s)   Flow 1 egress (mean 95.26 Mbit/s)
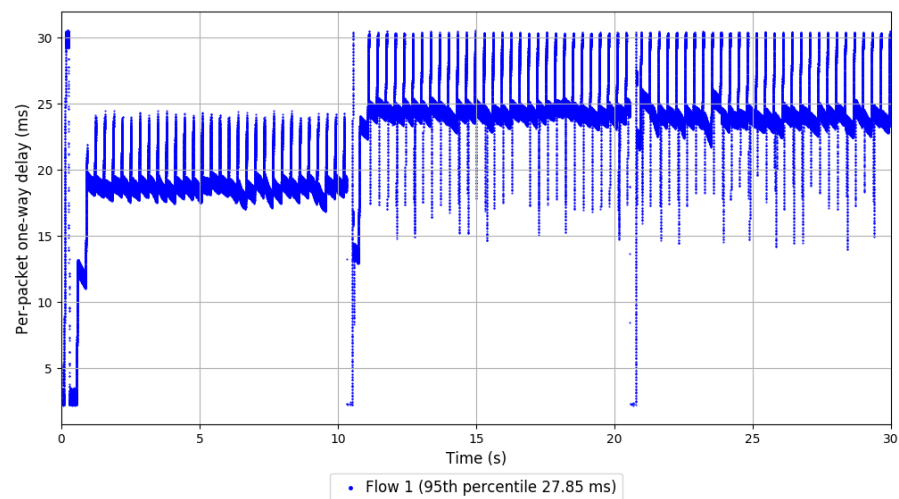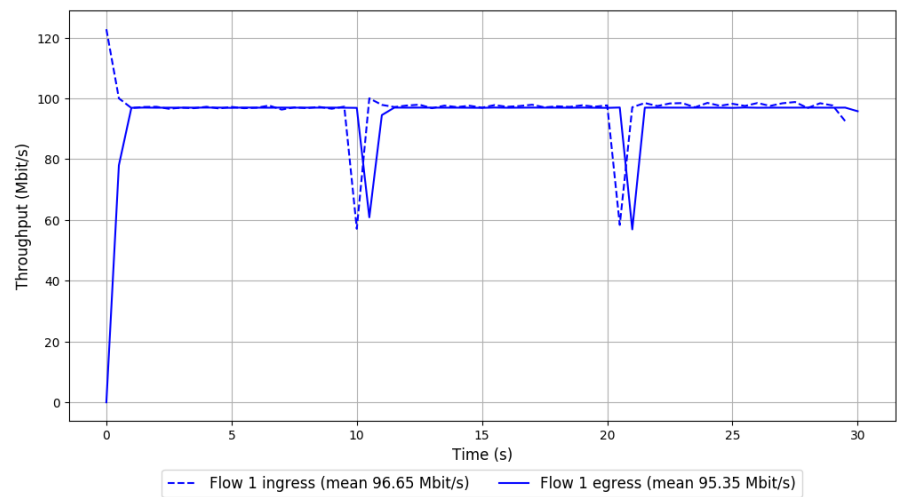

Flow 1 (95th percentile 27.73 ms)

```
Run 6: Statistics of FillP-Sheep

Start at: 2018-08-01 01:41:37
End at: 2018-08-01 01:42:07
Local clock offset: -3.752 ms
Remote clock offset: -2.608 ms


# Below is generated by plot.py at 2018-08-01 03:23:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 27.846 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 27.846 ms
Loss rate: 1.28%
```

Run 6: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 96.65 Mbit/s) --- Flow 1 egress (mean 95.35 Mbit/s)
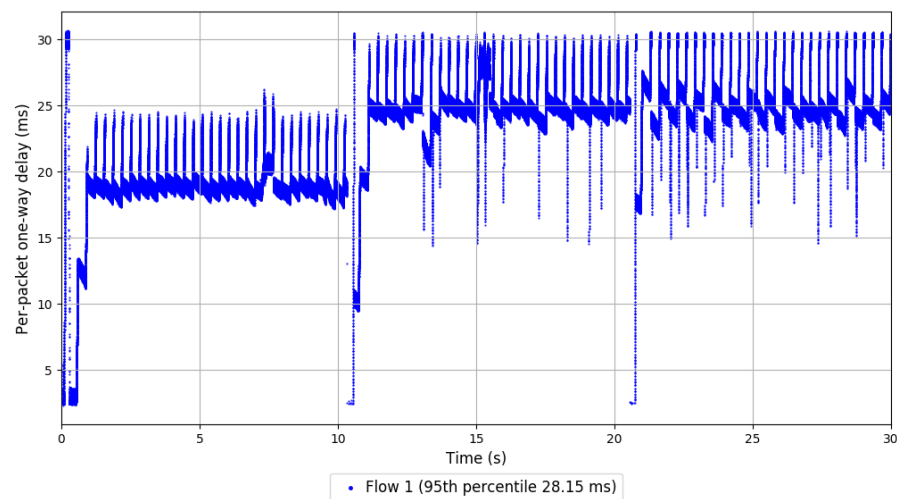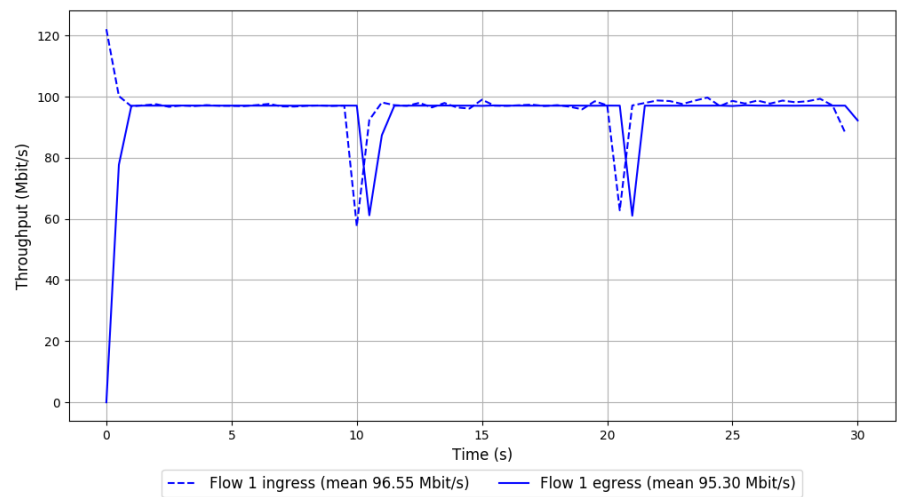

Flow 1 (95th percentile 27.85 ms)

```
Run 7: Statistics of FillP-Sheep

Start at: 2018-08-01 02:00:40
End at: 2018-08-01 02:01:10
Local clock offset: -2.754 ms
Remote clock offset: -2.342 ms


# Below is generated by plot.py at 2018-08-01 03:24:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 28.147 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 95.30 Mbit/s
95th percentile per-packet one-way delay: 28.147 ms
Loss rate: 1.20%
```

Run 7: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 96.55 Mbit/s)   Flow 1 egress (mean 95.30 Mbit/s)
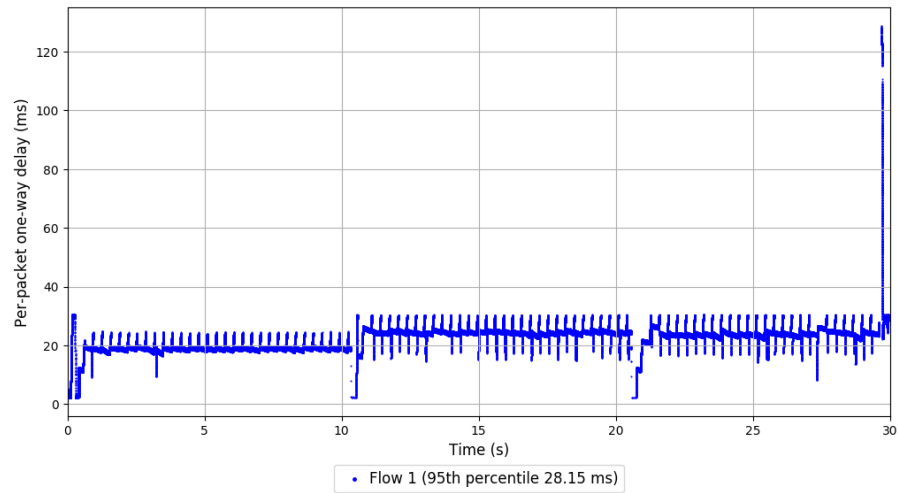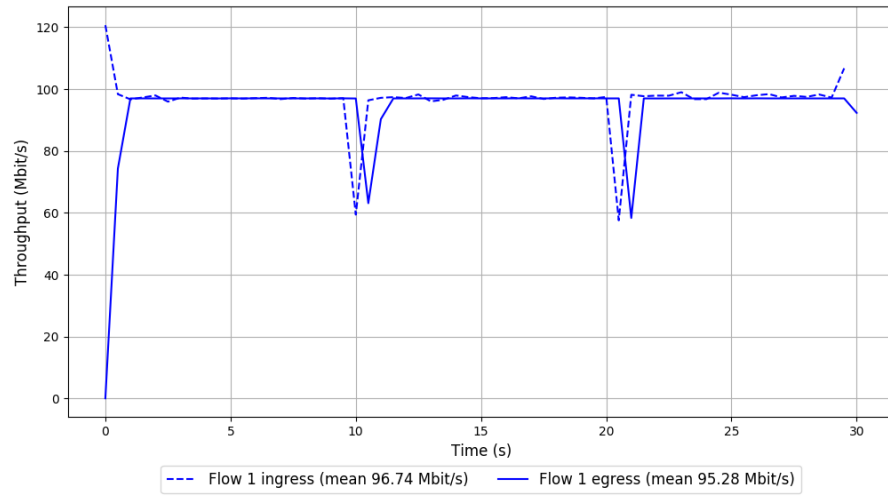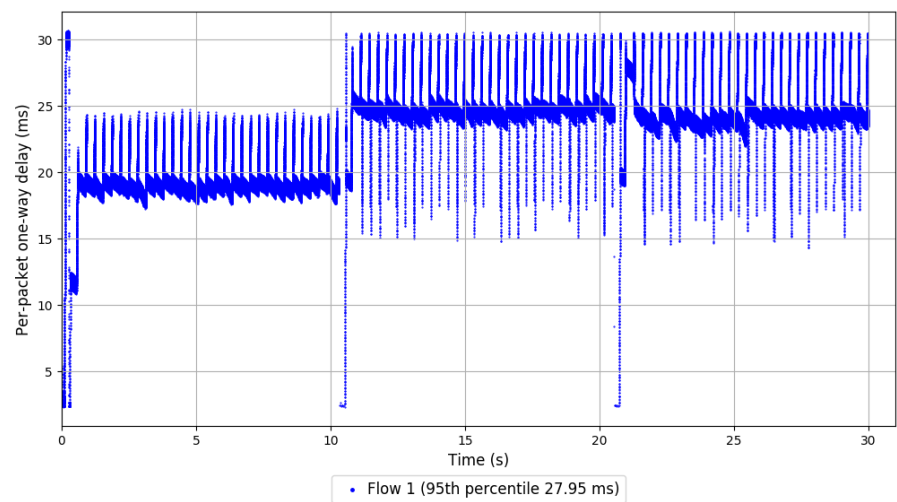

Flow 1 (95th percentile 28.15 ms)

```
Run 8: Statistics of FillP-Sheep

Start at: 2018-08-01 02:19:46
End at: 2018-08-01 02:20:16
Local clock offset: -2.039 ms
Remote clock offset: -2.739 ms


# Below is generated by plot.py at 2018-08-01 03:24:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 28.149 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 28.149 ms
Loss rate: 1.42%
```

Run 8: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 96.74 Mbit/s)   Flow 1 egress (mean 95.28 Mbit/s)
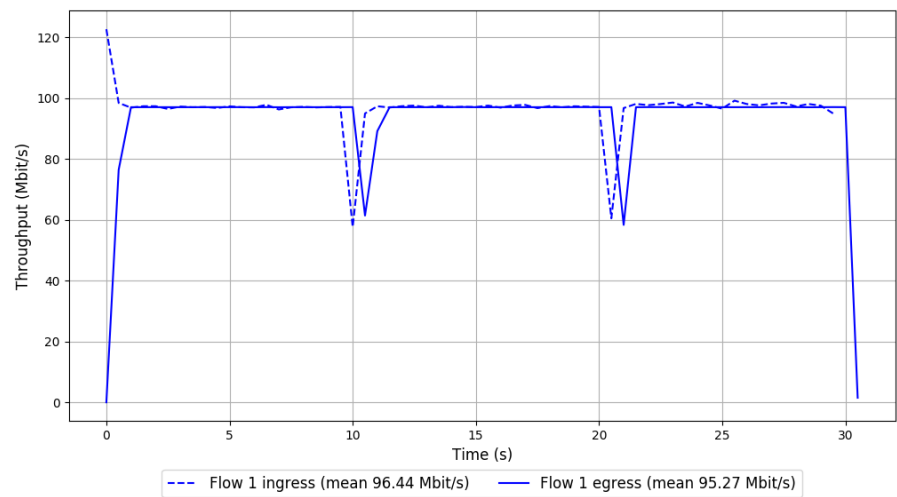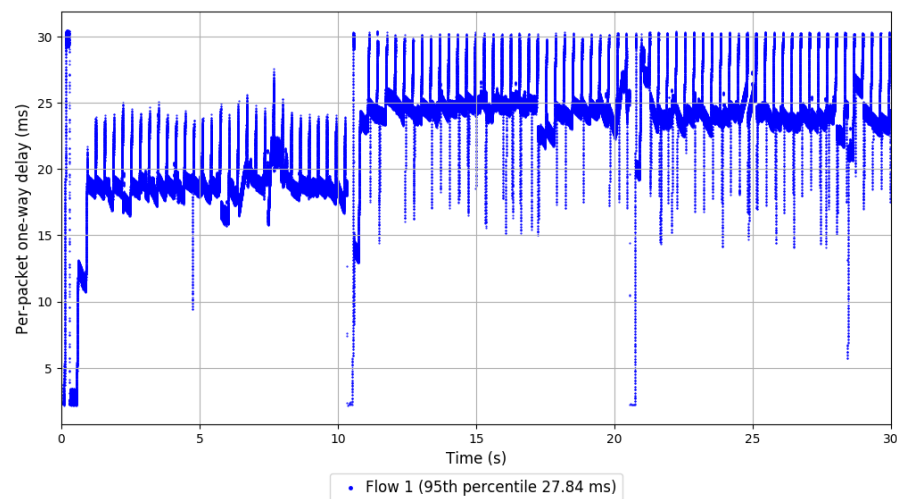

Flow 1 (95th percentile 28.15 ms)

```
Run 9: Statistics of FillP-Sheep

Start at: 2018-08-01 02:38:49
End at: 2018-08-01 02:39:19
Local clock offset: -2.271 ms
Remote clock offset: -2.779 ms


# Below is generated by plot.py at 2018-08-01 03:24:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 27.951 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 27.951 ms
Loss rate: 1.14%
```
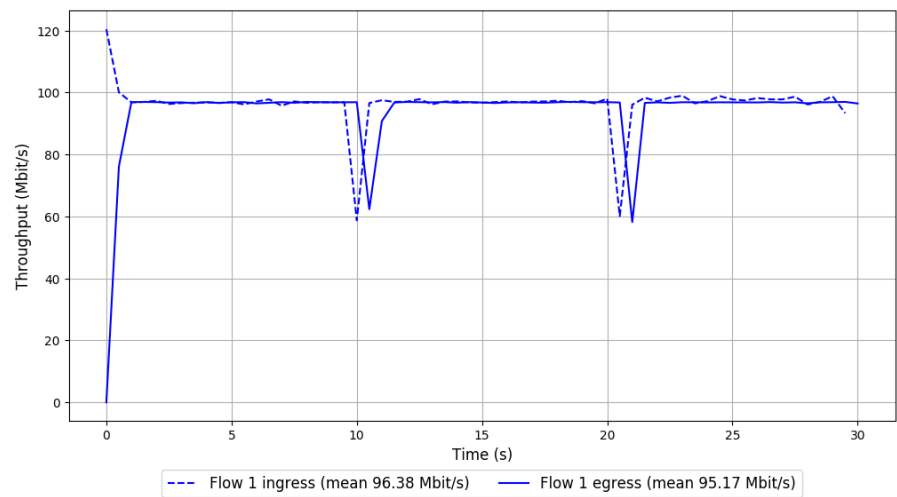
Run 9: Report of FillP-Sheep — Data Link

```
Run 10: Statistics of FillP-Sheep

Start at: 2018-08-01 02:57:56
End at: 2018-08-01 02:58:26
Local clock offset: -3.071 ms
Remote clock offset: -3.048 ms


# Below is generated by plot.py at 2018-08-01 03:24:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 27.839 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 27.839 ms
Loss rate: 1.18%
```
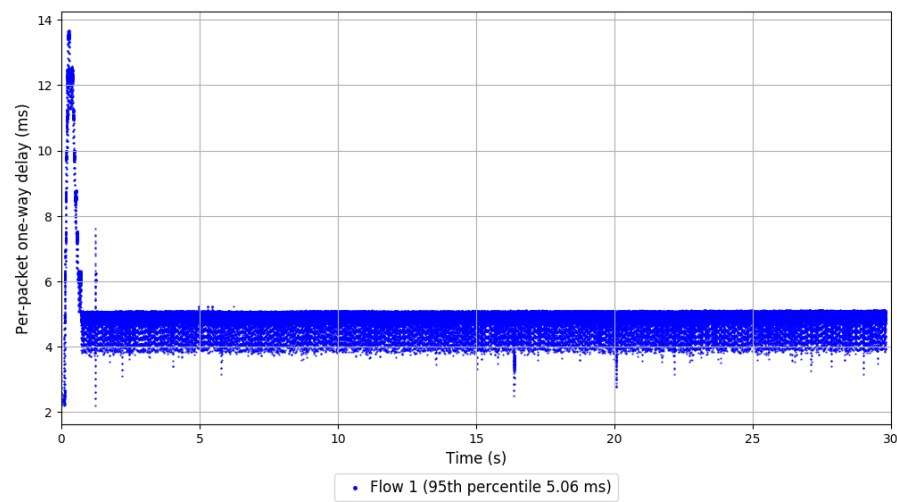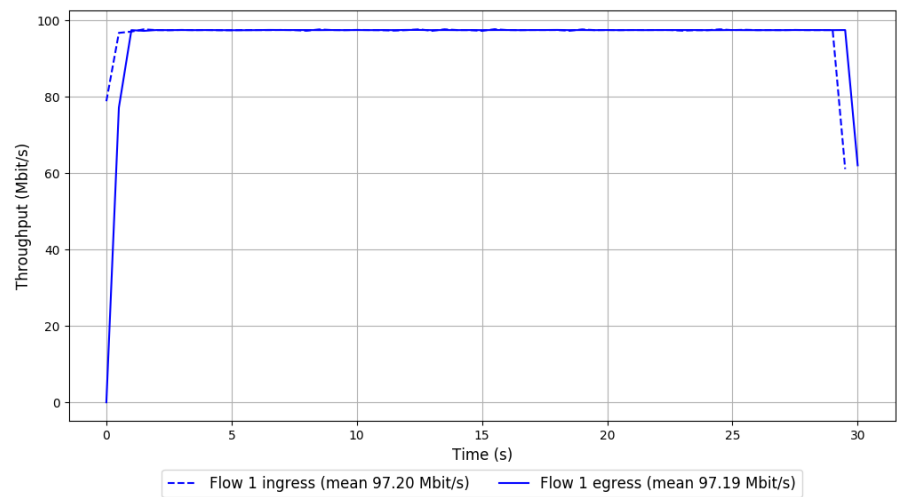
Run 10: Report of FillP-Sheep — Data Link

Flow 1 ingress (mean 96.38 Mbit/s) — — — Flow 1 egress (mean 95.17 Mbit/s) ———

• Flow 1 (95th percentile 27.84 ms)

```
Run 1: Statistics of Indigo

Start at: 2018-08-01 00:09:54
End at: 2018-08-01 00:10:24
Local clock offset: 1.292 ms
Remote clock offset: -1.906 ms


# Below is generated by plot.py at 2018-08-01 03:24:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 5.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 5.057 ms
Loss rate: 0.00%
```
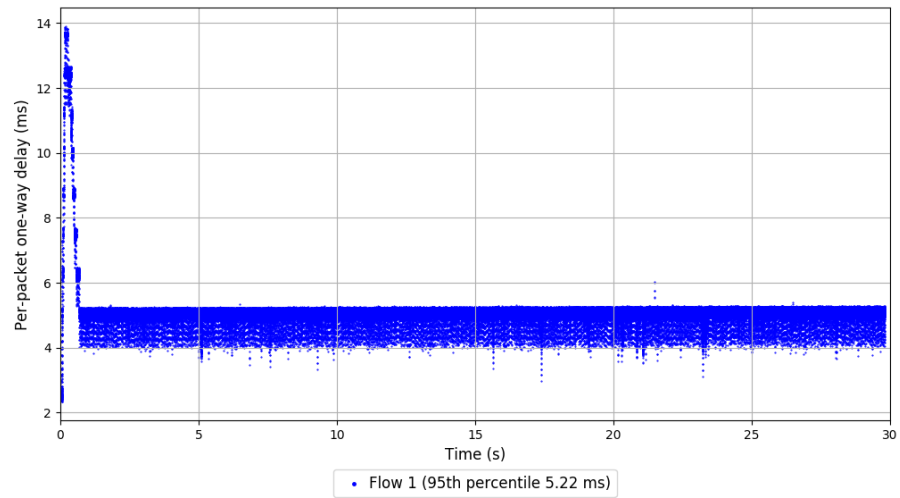
Run 1: Report of Indigo — Data Link

Flow 1 ingress (mean 97.20 Mbit/s)   Flow 1 egress (mean 97.19 Mbit/s)

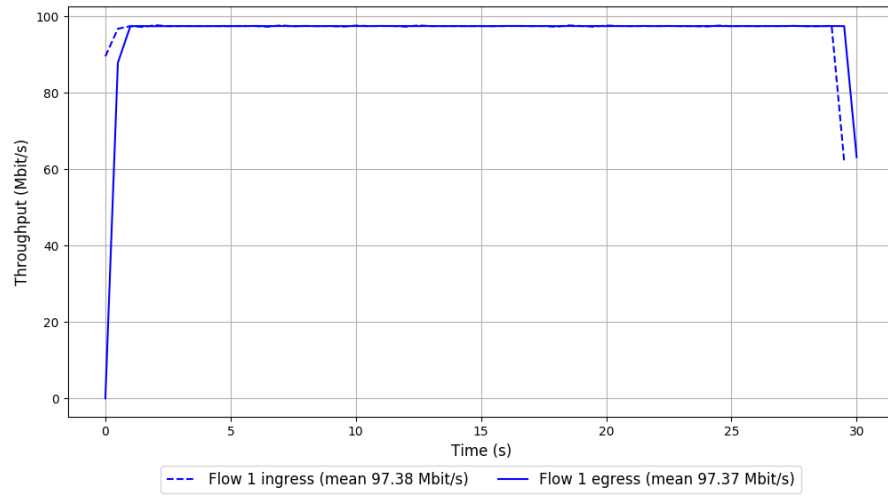Flow 1 (95th percentile 5.06 ms)

```
Run 2: Statistics of Indigo

Start at: 2018-08-01 00:28:52
End at: 2018-08-01 00:29:22
Local clock offset: 2.588 ms
Remote clock offset: -2.145 ms


# Below is generated by plot.py at 2018-08-01 03:24:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 5.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 5.217 ms
Loss rate: 0.00%
```
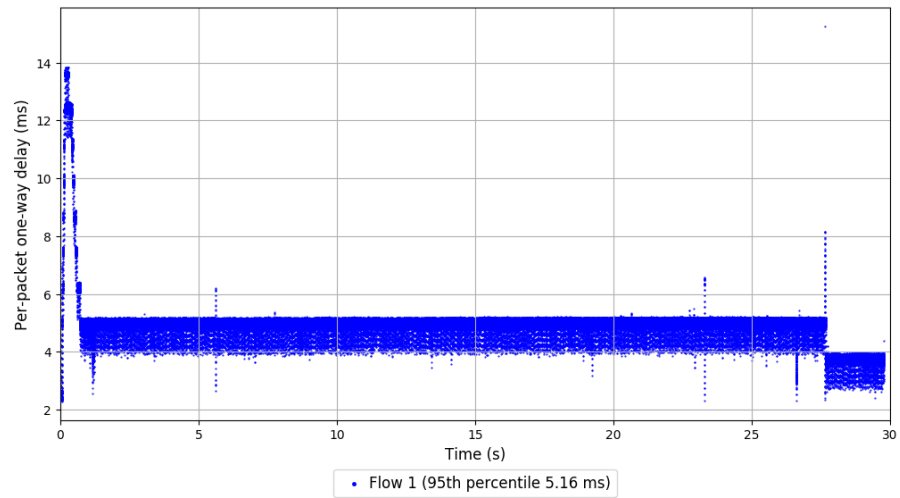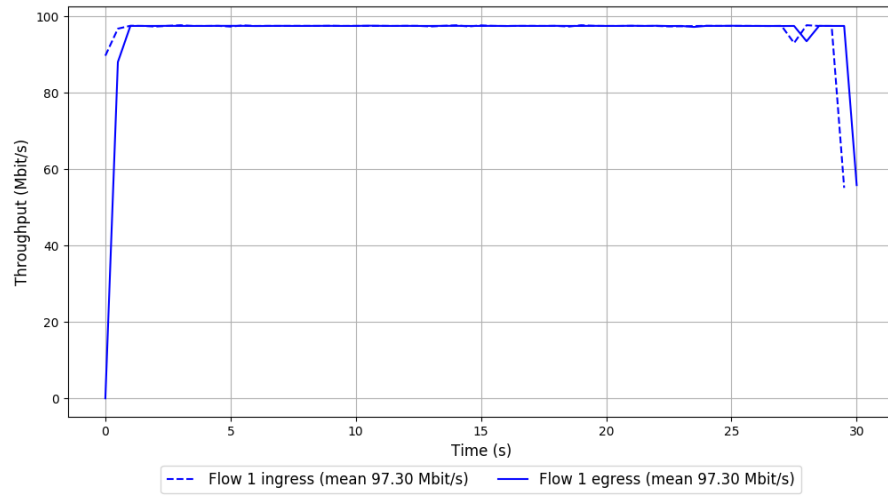
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2018-08-01 00:47:54
End at: 2018-08-01 00:48:24
Local clock offset: 3.952 ms
Remote clock offset: -2.377 ms


# Below is generated by plot.py at 2018-08-01 03:24:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 5.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 5.158 ms
Loss rate: 0.00%
```

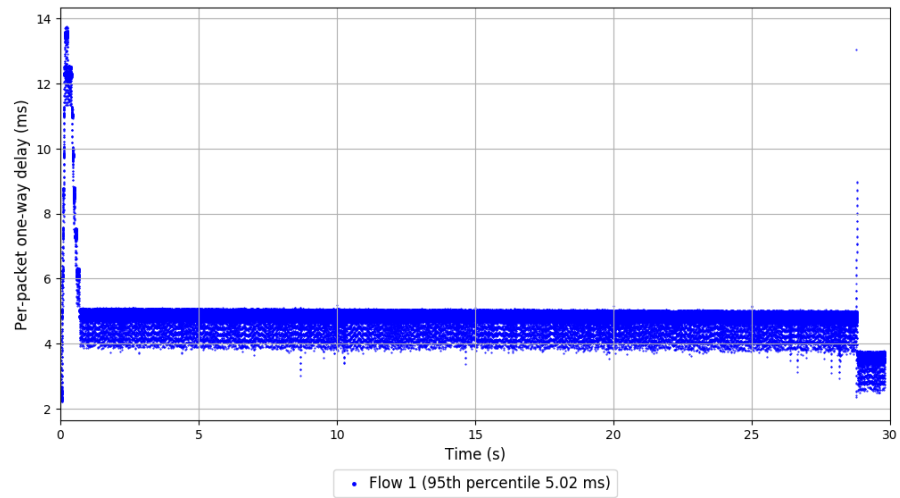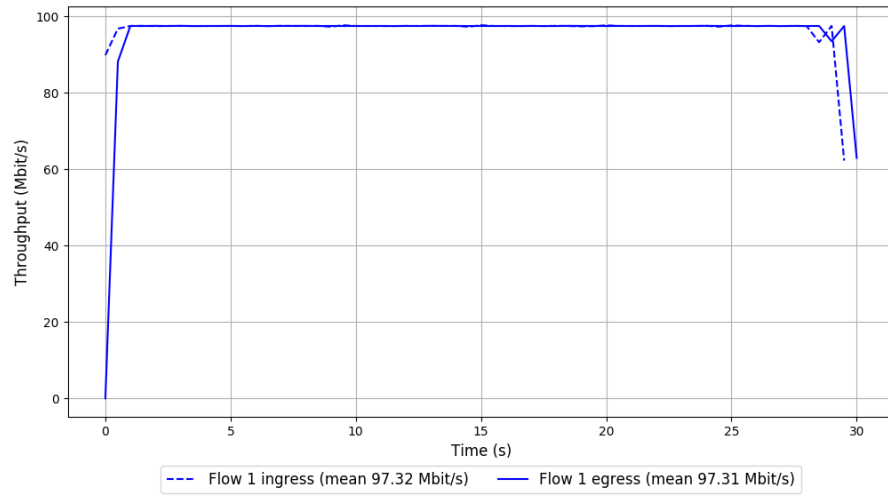## Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2018-08-01 01:06:56
End at: 2018-08-01 01:07:26
Local clock offset: -2.206 ms
Remote clock offset: -2.766 ms


# Below is generated by plot.py at 2018-08-01 03:24:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 5.018 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 5.018 ms
Loss rate: 0.00%
```

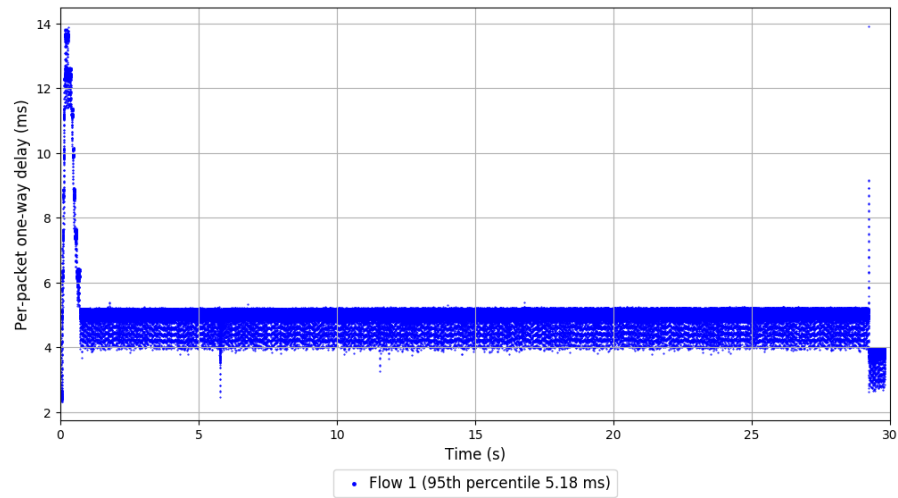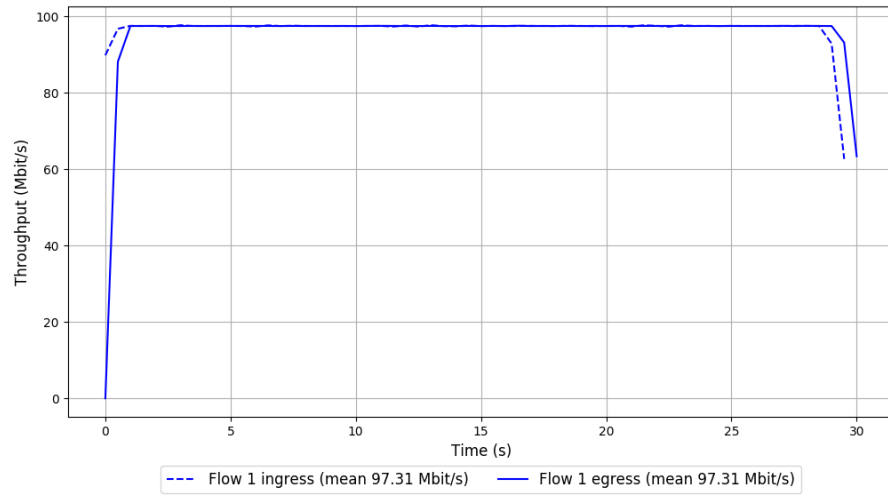Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2018-08-01 01:25:59
End at: 2018-08-01 01:26:29
Local clock offset: -3.829 ms
Remote clock offset: -2.787 ms


# Below is generated by plot.py at 2018-08-01 03:25:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 5.183 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 5.183 ms
Loss rate: 0.00%
```

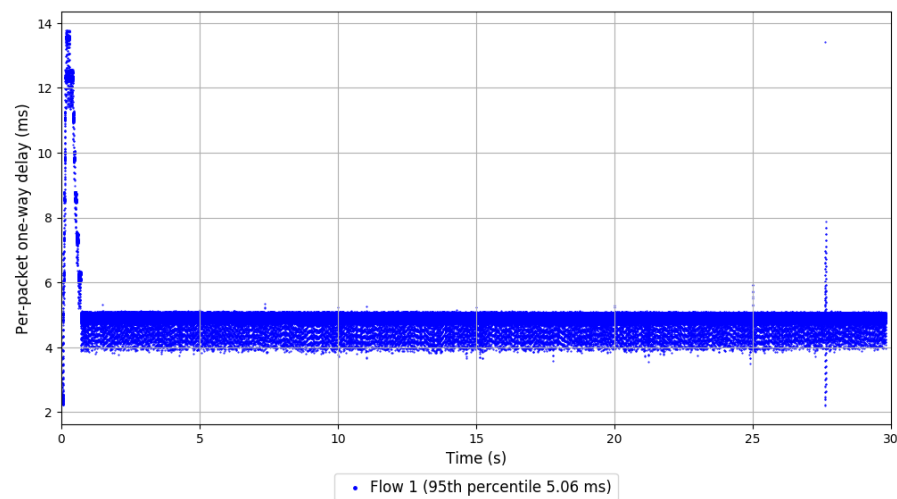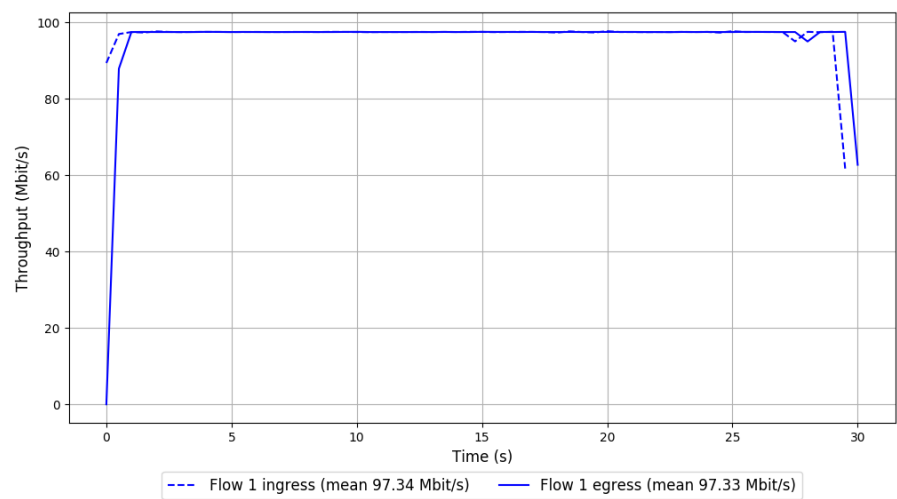Run 5: Report of Indigo — Data Link

```
Run 6: Statistics of Indigo

Start at: 2018-08-01 01:45:01
End at: 2018-08-01 01:45:31
Local clock offset: -3.825 ms
Remote clock offset: -2.574 ms


# Below is generated by plot.py at 2018-08-01 03:25:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 5.059 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 5.059 ms
Loss rate: 0.00%
```

Run 6: Report of Indigo — Data Link

Flow 1 ingress (mean 97.34 Mbit/s)   Flow 1 egress (mean 97.33 Mbit/s)

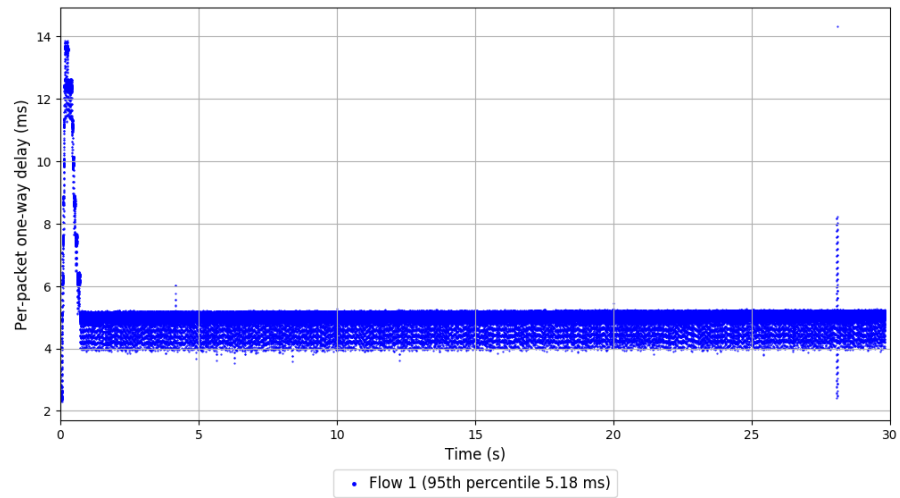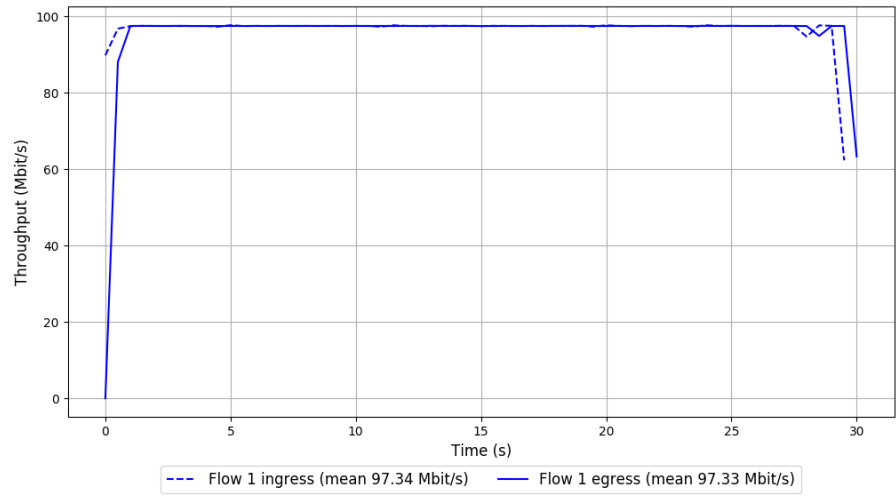Flow 1 (95th percentile 5.06 ms)

115

```
Run 7: Statistics of Indigo

Start at: 2018-08-01 02:04:03
End at: 2018-08-01 02:04:33
Local clock offset: -2.471 ms
Remote clock offset: -2.352 ms


# Below is generated by plot.py at 2018-08-01 03:25:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 5.184 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 5.184 ms
Loss rate: 0.00%
```

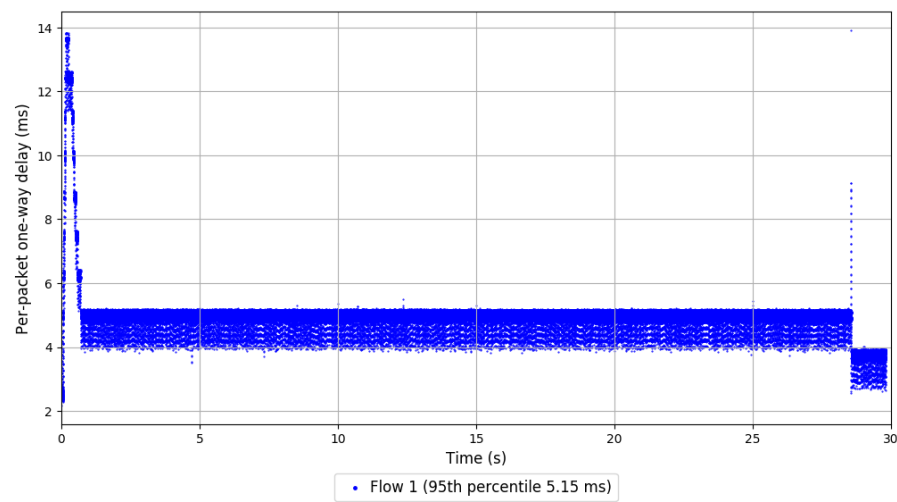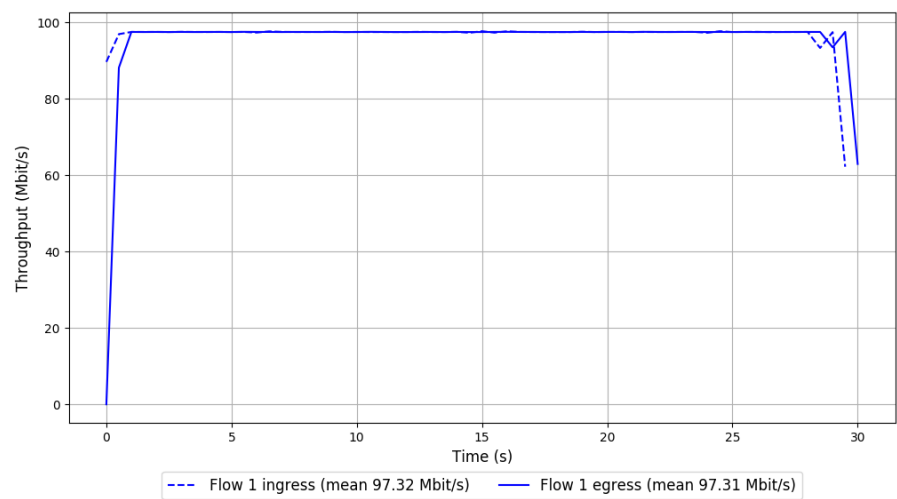Run 7: Report of Indigo — Data Link

```
Run 8: Statistics of Indigo

Start at: 2018-08-01 02:23:10
End at: 2018-08-01 02:23:40
Local clock offset: -2.038 ms
Remote clock offset: -2.692 ms


# Below is generated by plot.py at 2018-08-01 03:25:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 5.146 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.31 Mbit/s
95th percentile per-packet one-way delay: 5.146 ms
Loss rate: 0.00%
```

Run 8: Report of Indigo — Data Link

Flow 1 ingress (mean 97.32 Mbit/s) — — — Flow 1 egress (mean 97.31 Mbit/s)

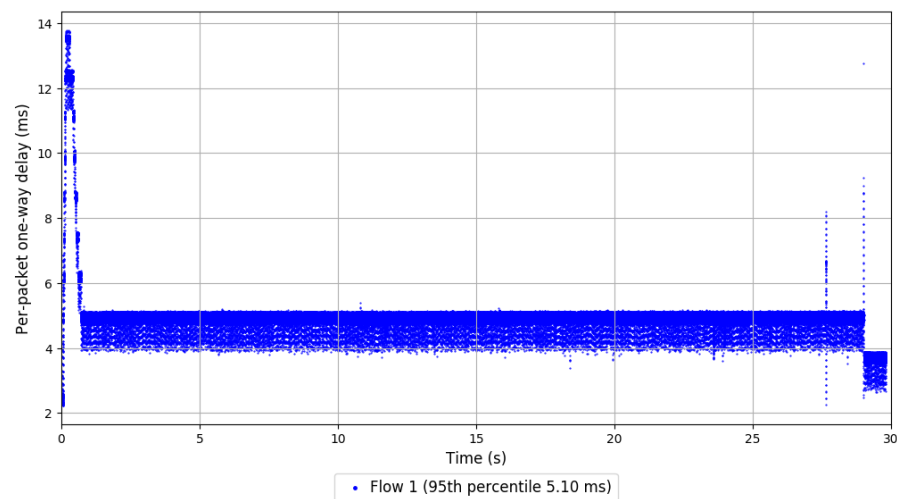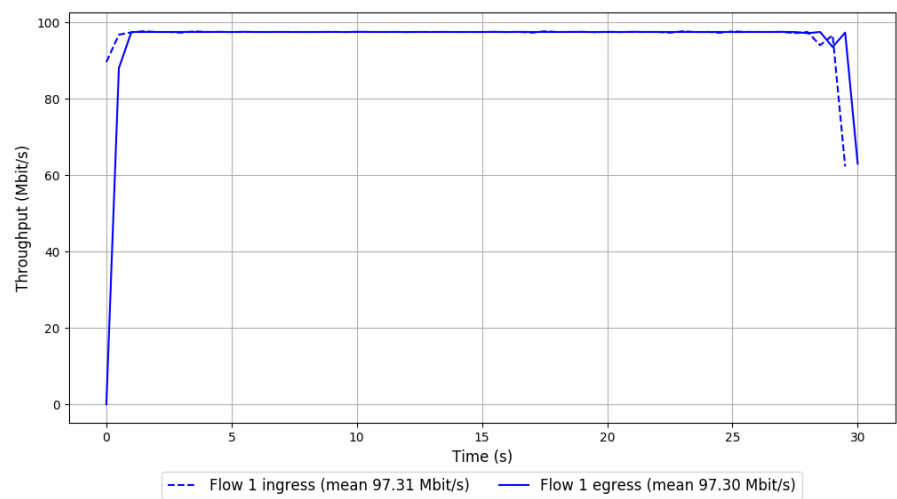Flow 1 (95th percentile 5.15 ms)

```
Run 9: Statistics of Indigo

Start at: 2018-08-01 02:42:12
End at: 2018-08-01 02:42:42
Local clock offset: -2.224 ms
Remote clock offset: -2.888 ms


# Below is generated by plot.py at 2018-08-01 03:25:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 5.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.30 Mbit/s
95th percentile per-packet one-way delay: 5.097 ms
Loss rate: 0.00%
```

Run 9: Report of Indigo — Data Link

Flow 1 ingress (mean 97.31 Mbit/s) —— Flow 1 egress (mean 97.30 Mbit/s)
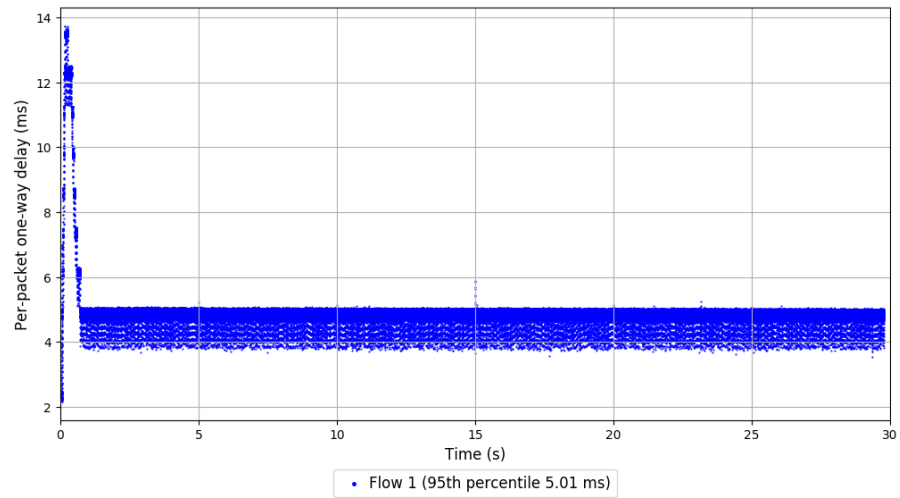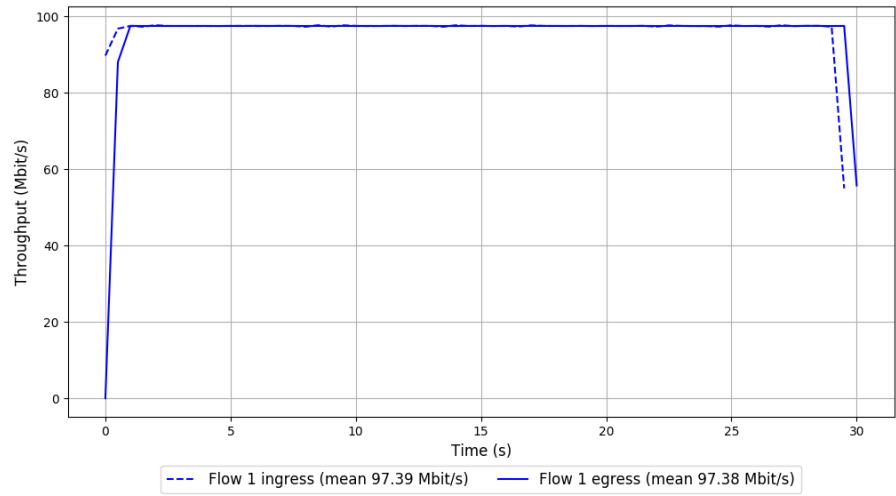

Flow 1 (95th percentile 5.10 ms)

```
Run 10: Statistics of Indigo

Start at: 2018-08-01 03:01:20
End at: 2018-08-01 03:01:50
Local clock offset: -3.398 ms
Remote clock offset: -3.098 ms


# Below is generated by plot.py at 2018-08-01 03:25:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 5.008 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 5.008 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo — Data Link

Flow 1 ingress (mean 97.39 Mbit/s)   Flow 1 egress (mean 97.38 Mbit/s)

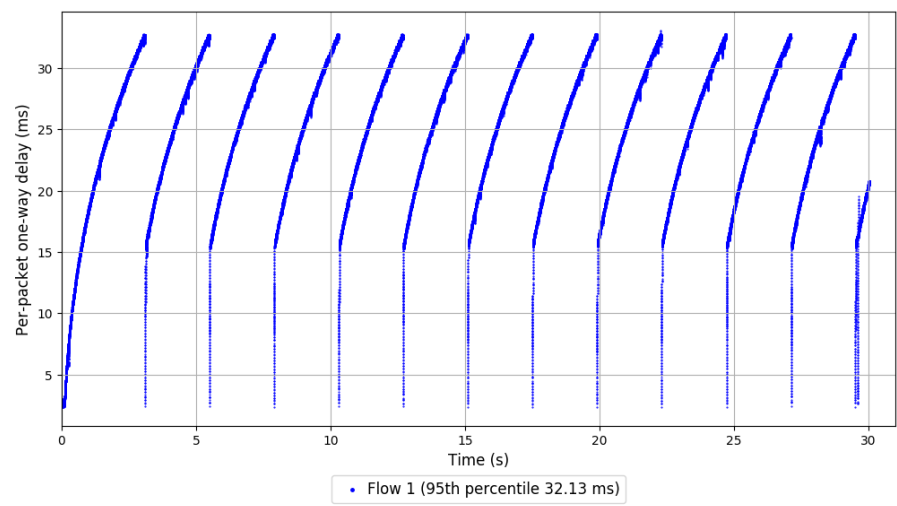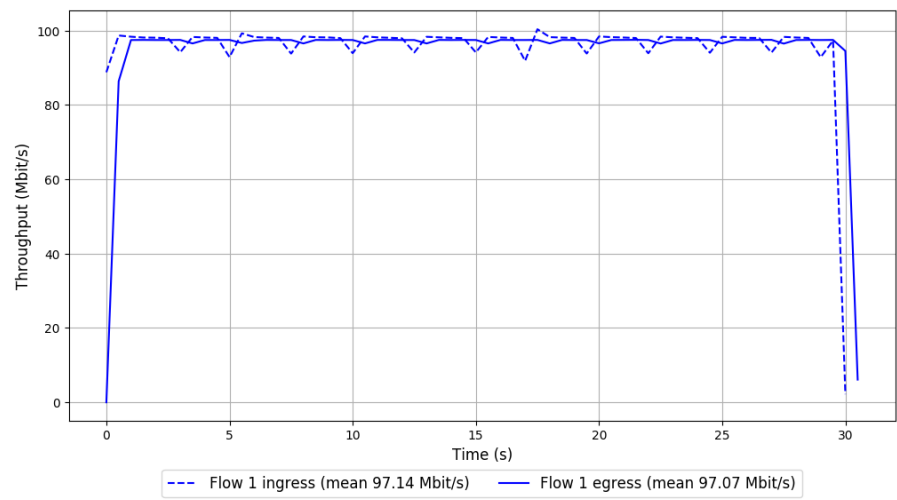Flow 1 (95th percentile 5.01 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2018-08-01 00:12:09
End at: 2018-08-01 00:12:39
Local clock offset: 1.367 ms
Remote clock offset: -1.811 ms


# Below is generated by plot.py at 2018-08-01 03:26:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 32.133 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 32.133 ms
Loss rate: 0.01%
```

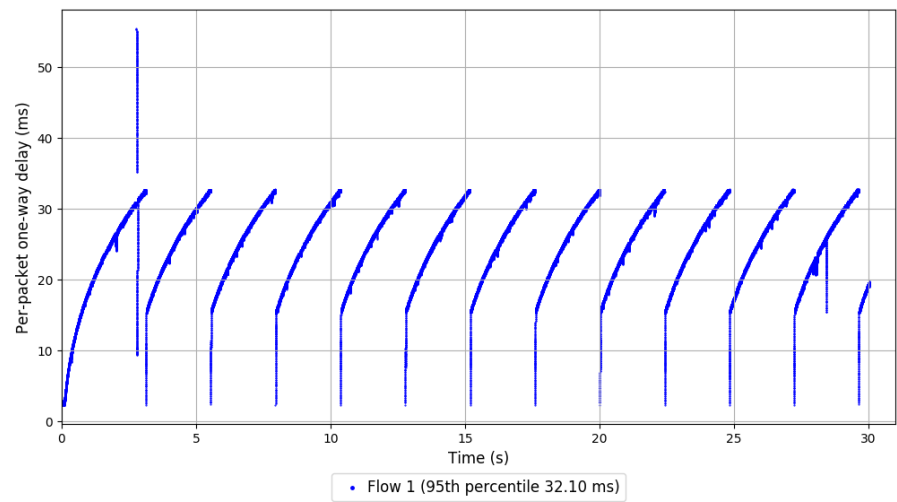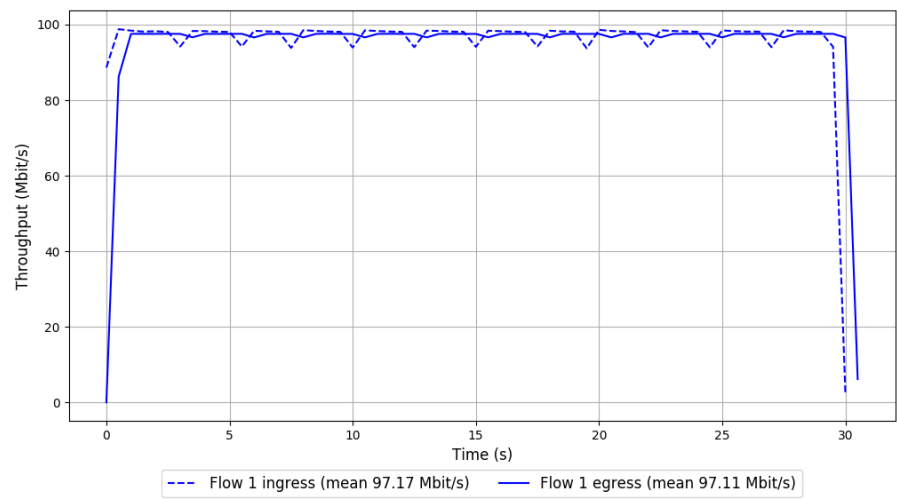Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.14 Mbit/s)   Flow 1 egress (mean 97.07 Mbit/s)

Flow 1 (95th percentile 32.13 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2018-08-01 00:31:08
End at: 2018-08-01 00:31:38
Local clock offset: 2.774 ms
Remote clock offset: -2.289 ms


# Below is generated by plot.py at 2018-08-01 03:26:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 32.101 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 32.101 ms
Loss rate: 0.01%
```

Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.17 Mbit/s) --- Flow 1 egress (mean 97.11 Mbit/s)

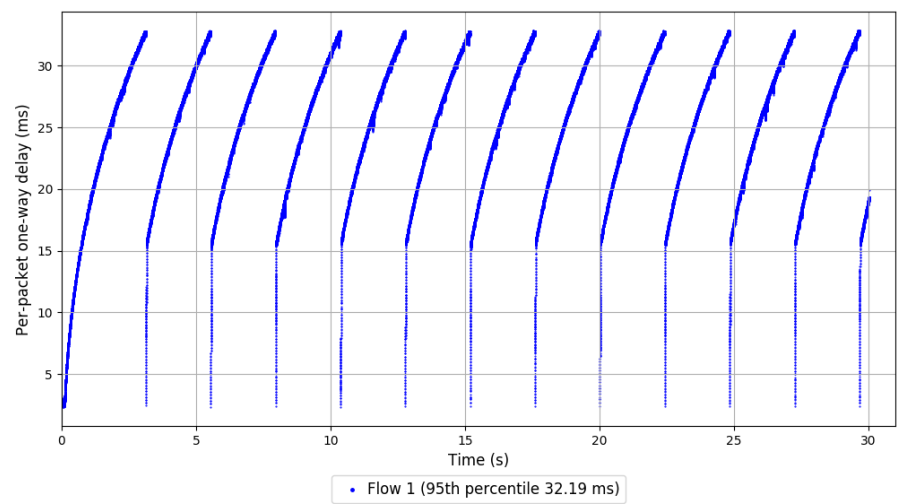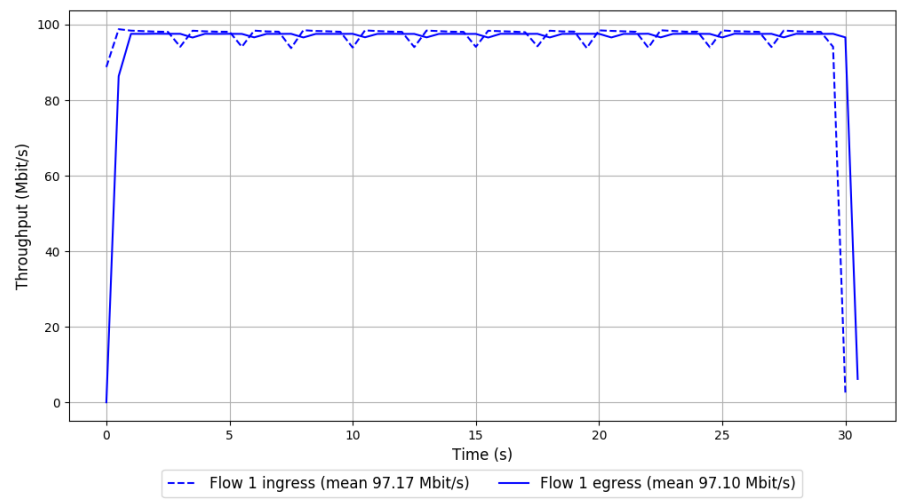• Flow 1 (95th percentile 32.10 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2018-08-01 00:50:09
End at: 2018-08-01 00:50:39
Local clock offset: 4.052 ms
Remote clock offset: -2.345 ms


# Below is generated by plot.py at 2018-08-01 03:26:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 32.190 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 32.190 ms
Loss rate: 0.01%
```

Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.17 Mbit/s) ---- Flow 1 egress (mean 97.10 Mbit/s)

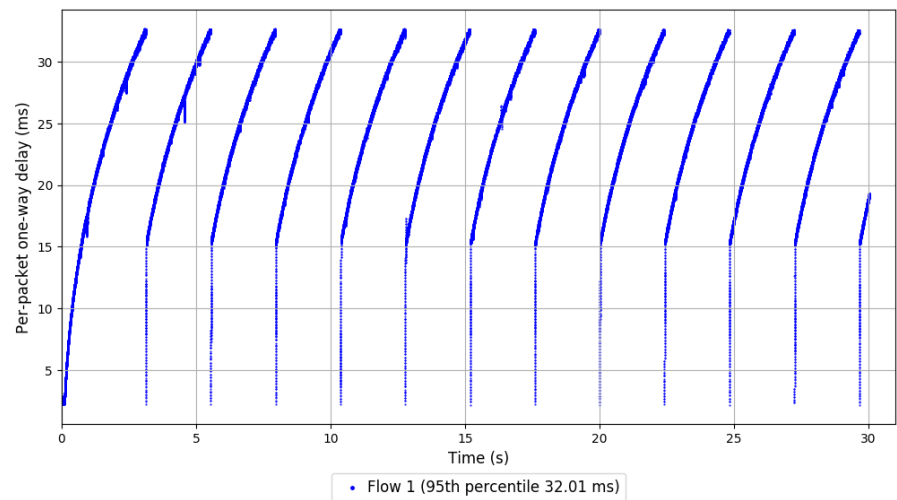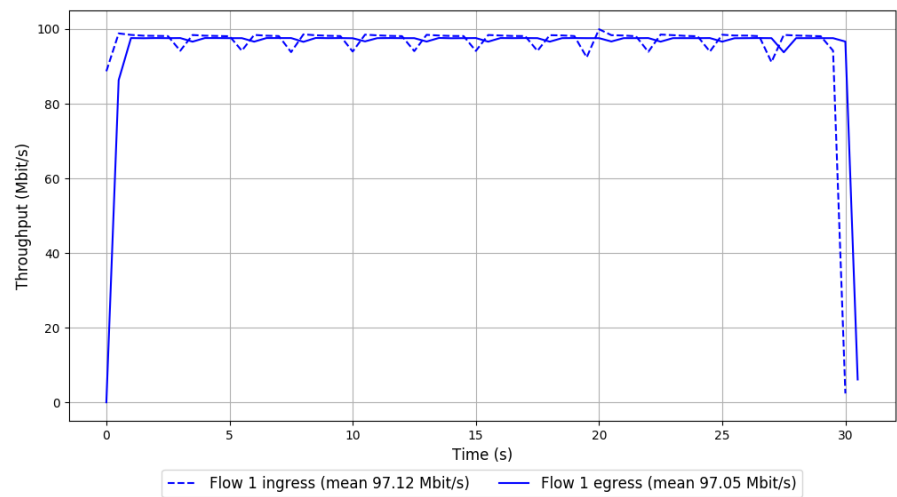Flow 1 (95th percentile 32.19 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2018-08-01 01:09:11
End at: 2018-08-01 01:09:41
Local clock offset: -2.642 ms
Remote clock offset: -2.795 ms

# Below is generated by plot.py at 2018-08-01 03:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 32.011 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 32.011 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.12 Mbit/s)   Flow 1 egress (mean 97.05 Mbit/s)

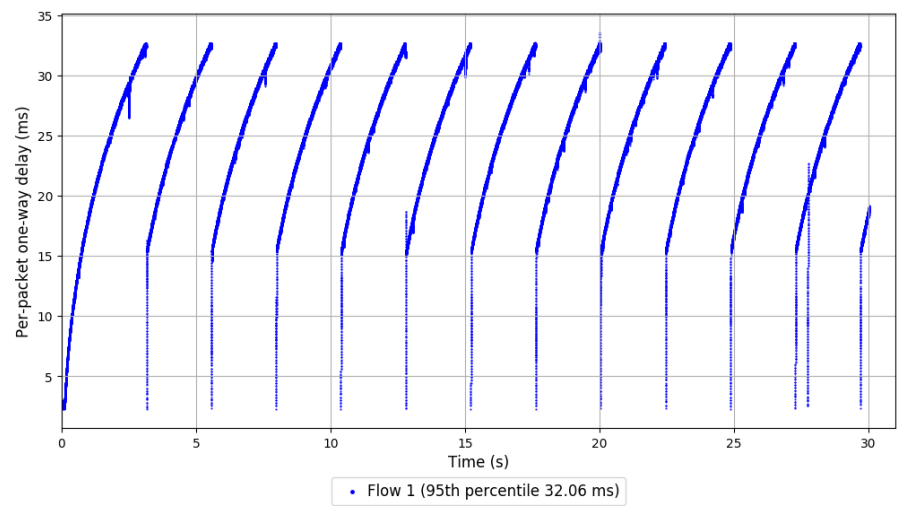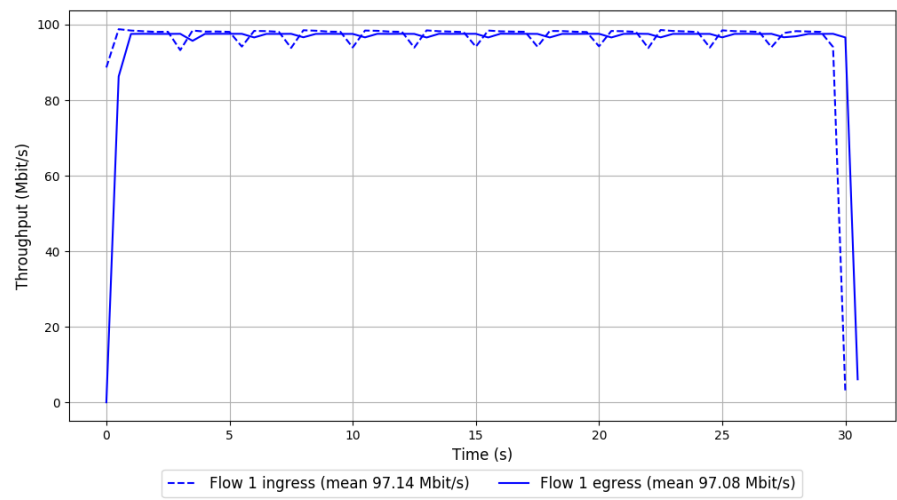Flow 1 (95th percentile 32.01 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2018-08-01 01:28:14
End at: 2018-08-01 01:28:44
Local clock offset: -3.733 ms
Remote clock offset: -2.854 ms


# Below is generated by plot.py at 2018-08-01 03:27:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 32.061 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 32.061 ms
Loss rate: 0.01%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.14 Mbit/s)   Flow 1 egress (mean 97.08 Mbit/s)

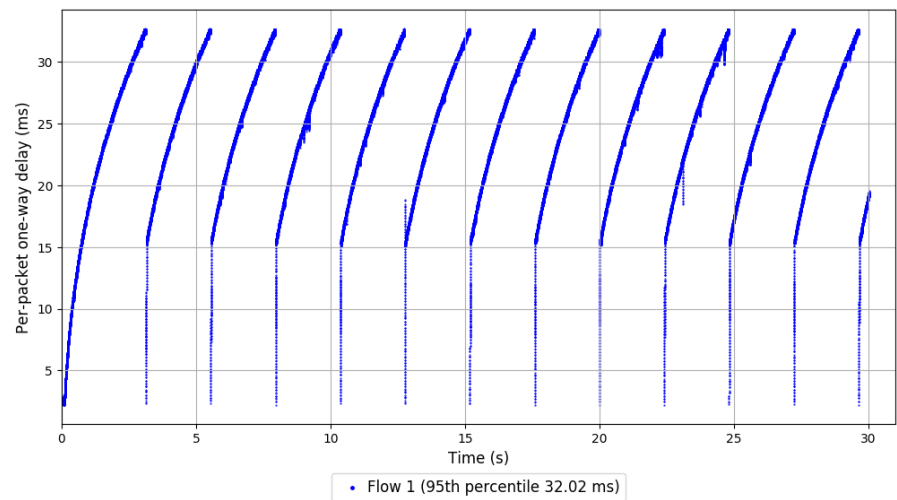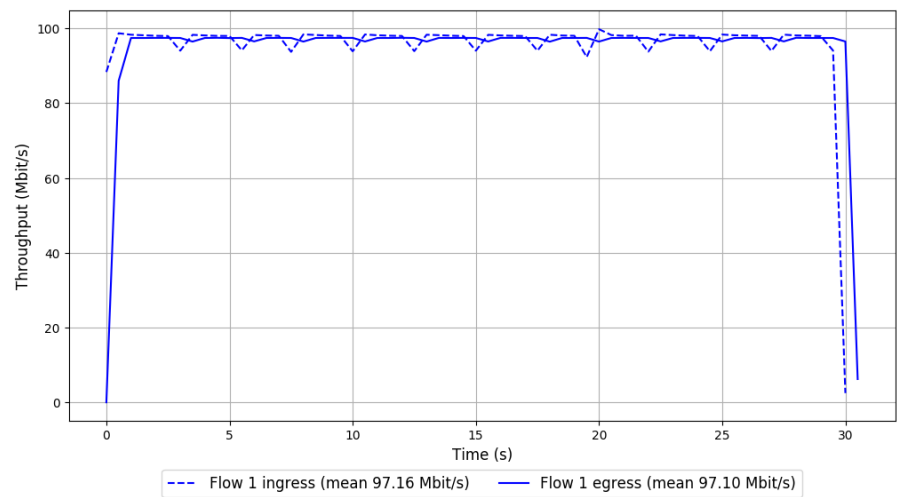Flow 1 (95th percentile 32.06 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2018-08-01 01:47:16
End at: 2018-08-01 01:47:46
Local clock offset: -3.879 ms
Remote clock offset: -2.529 ms


# Below is generated by plot.py at 2018-08-01 03:27:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 32.020 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.10 Mbit/s
95th percentile per-packet one-way delay: 32.020 ms
Loss rate: 0.01%
```

Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.16 Mbit/s)   Flow 1 egress (mean 97.10 Mbit/s)

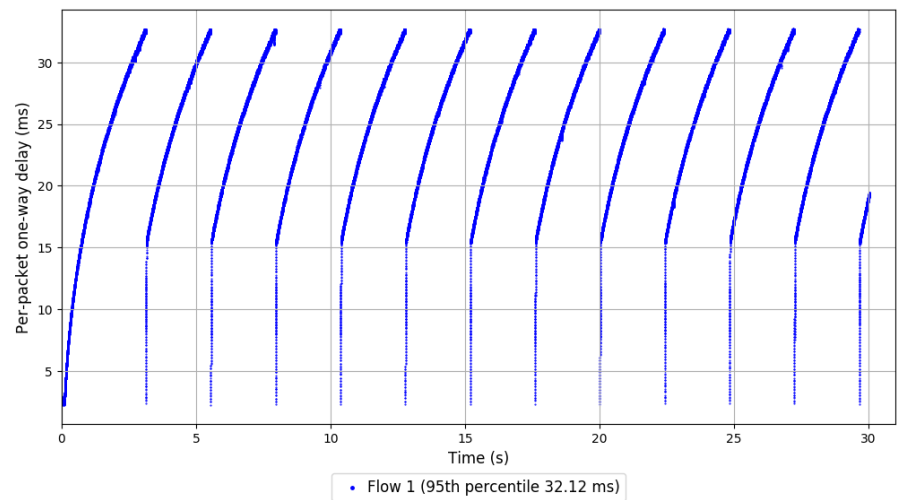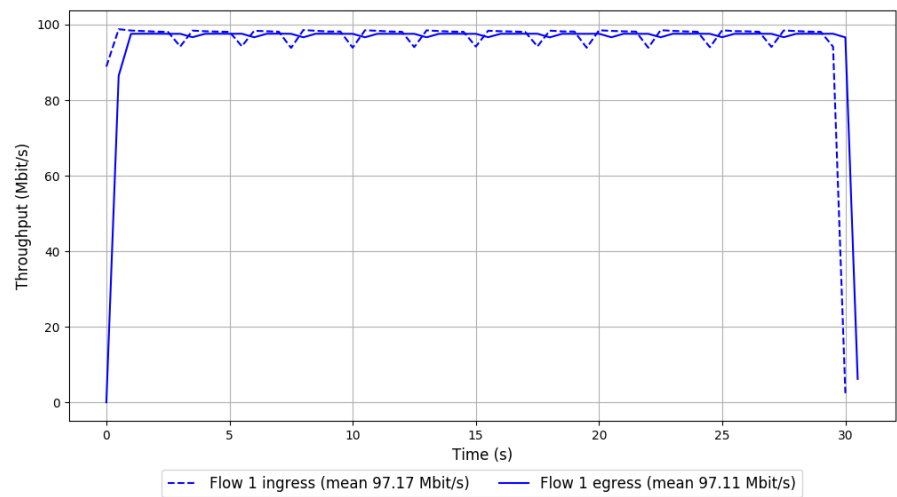• Flow 1 (95th percentile 32.02 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2018-08-01 02:06:18
End at: 2018-08-01 02:06:48
Local clock offset: -2.356 ms
Remote clock offset: -2.487 ms

# Below is generated by plot.py at 2018-08-01 03:27:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 32.122 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 32.122 ms
Loss rate: 0.01%
```

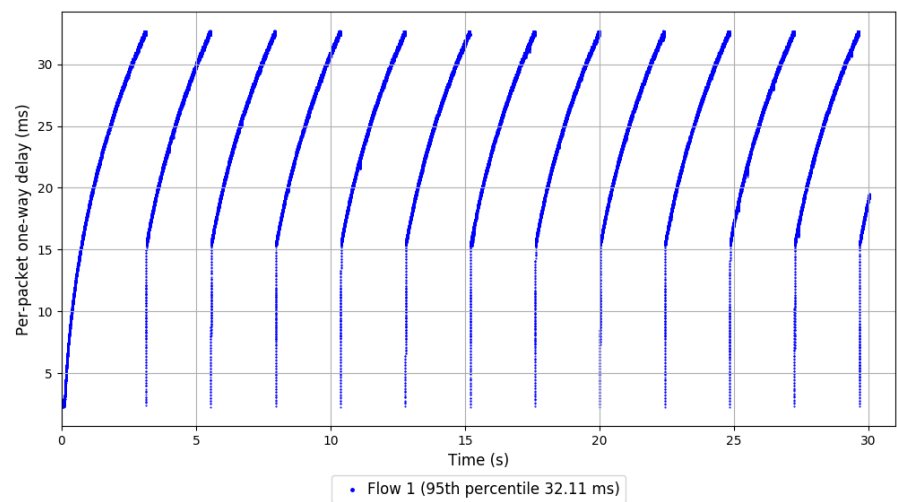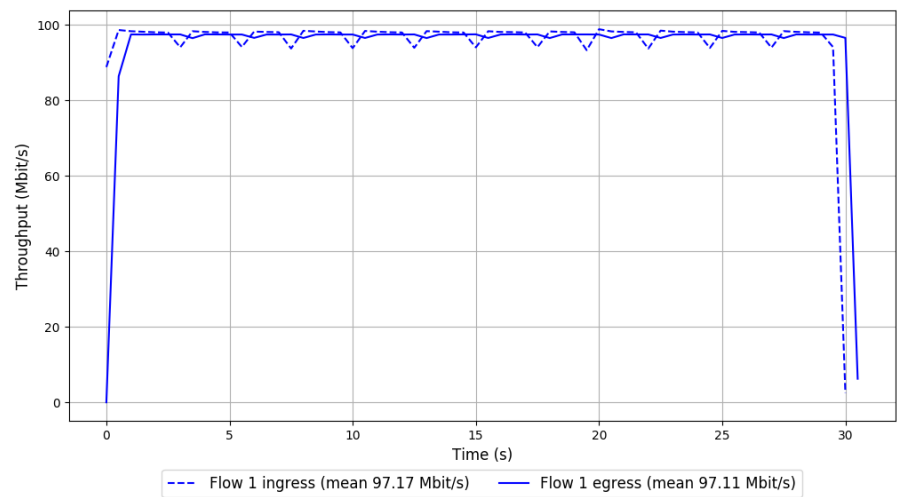# Run 7: Report of LEDBAT — Data Link

```
Run 8: Statistics of LEDBAT

Start at: 2018-08-01 02:25:25
End at: 2018-08-01 02:25:55
Local clock offset: -2.063 ms
Remote clock offset: -2.715 ms


# Below is generated by plot.py at 2018-08-01 03:27:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 32.113 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 32.113 ms
Loss rate: 0.01%
```

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.17 Mbit/s)   Flow 1 egress (mean 97.11 Mbit/s)

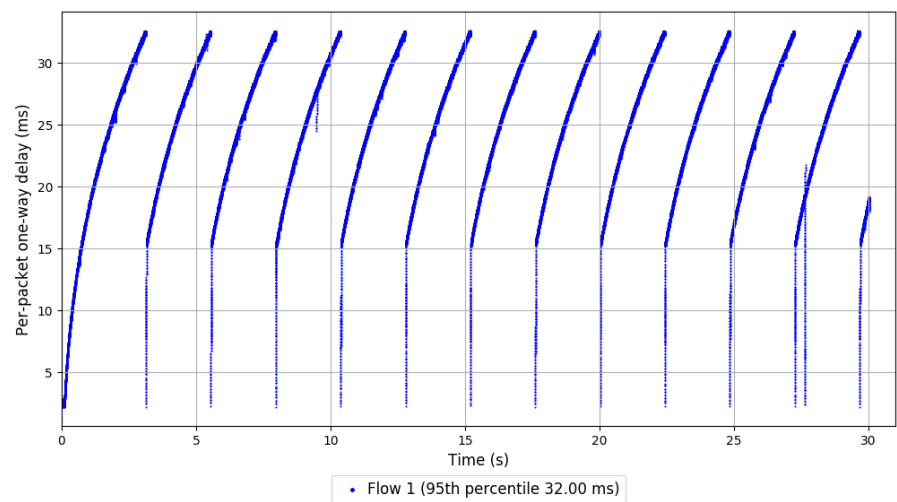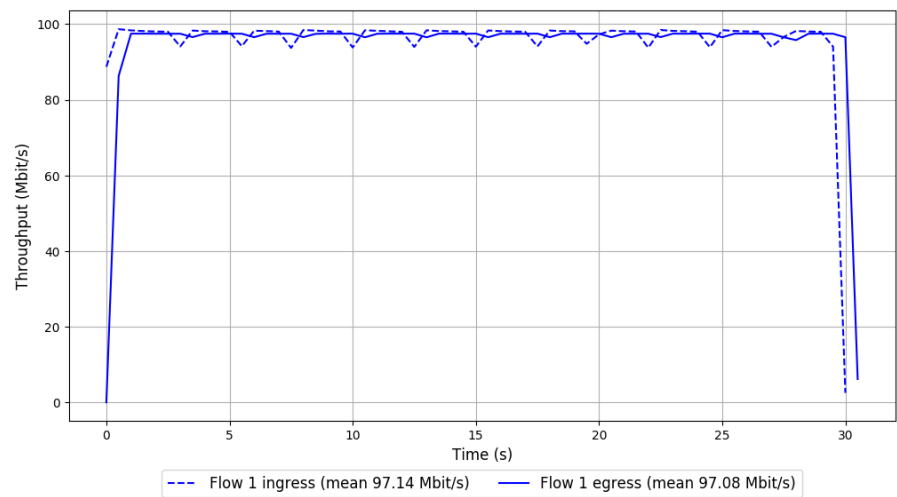Flow 1 (95th percentile 32.11 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2018-08-01 02:44:32
End at: 2018-08-01 02:45:03
Local clock offset: -2.233 ms
Remote clock offset: -2.995 ms

# Below is generated by plot.py at 2018-08-01 03:27:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 32.003 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.08 Mbit/s
95th percentile per-packet one-way delay: 32.003 ms
Loss rate: 0.01%
```

Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.14 Mbit/s) — Flow 1 egress (mean 97.08 Mbit/s)
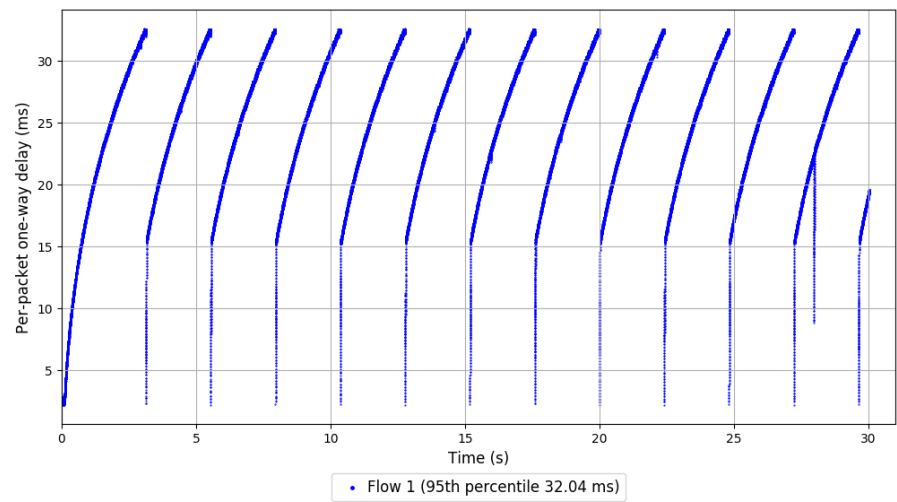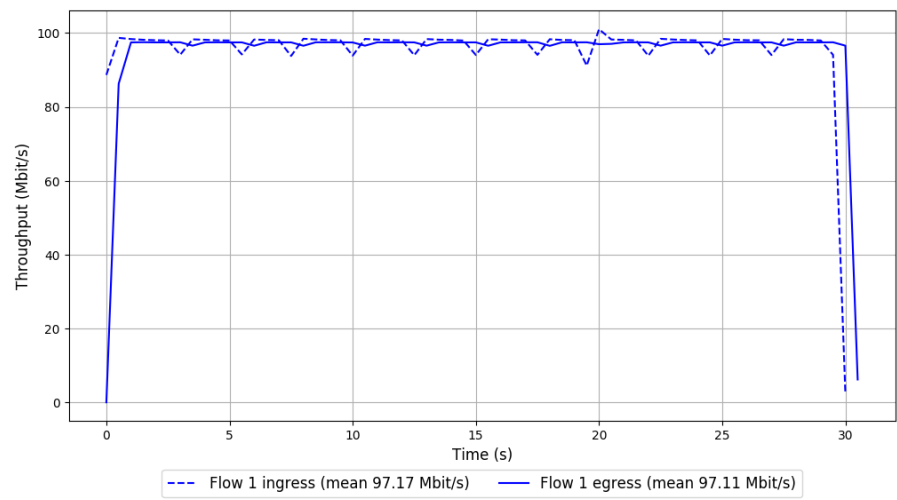

• Flow 1 (95th percentile 32.00 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2018-08-01 03:03:35
End at: 2018-08-01 03:04:05
Local clock offset: -3.572 ms
Remote clock offset: -3.072 ms


# Below is generated by plot.py at 2018-08-01 03:27:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 32.040 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 32.040 ms
Loss rate: 0.01%
```

Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.17 Mbit/s)   Flow 1 egress (mean 97.11 Mbit/s)

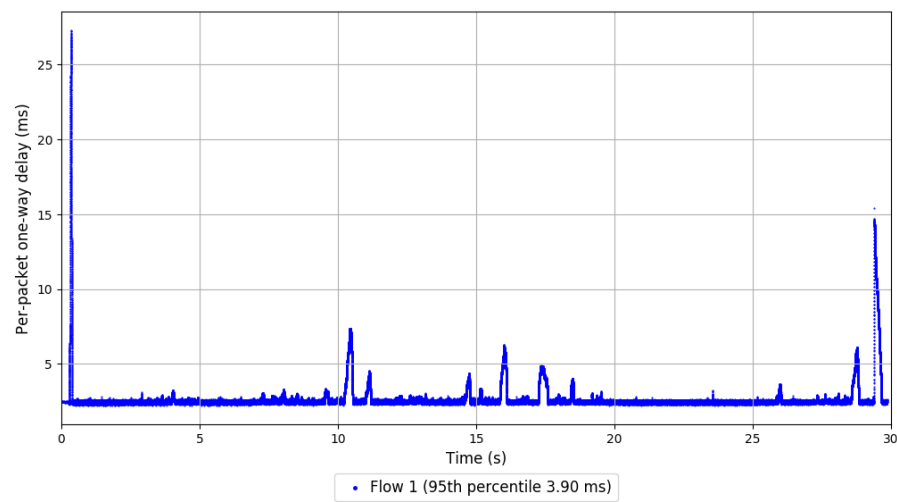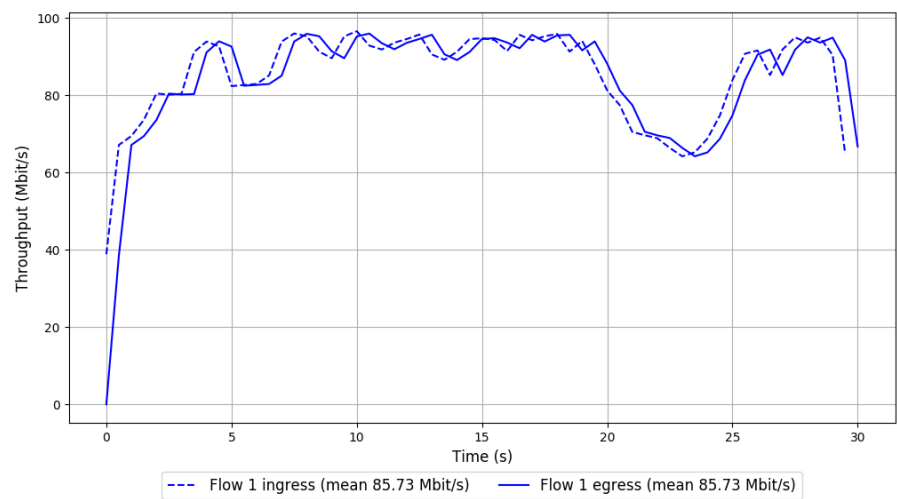• Flow 1 (95th percentile 32.04 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-01 00:05:24
End at: 2018-08-01 00:05:54
Local clock offset: 0.955 ms
Remote clock offset: -1.843 ms


# Below is generated by plot.py at 2018-08-01 03:28:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.73 Mbit/s
95th percentile per-packet one-way delay: 3.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.73 Mbit/s
95th percentile per-packet one-way delay: 3.904 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2018-08-01 00:24:23
End at: 2018-08-01 00:24:53
Local clock offset: 2.229 ms
Remote clock offset: -1.846 ms


# Below is generated by plot.py at 2018-08-01 03:28:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 14.657 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 88.54 Mbit/s
95th percentile per-packet one-way delay: 14.657 ms
Loss rate: 0.11%
```
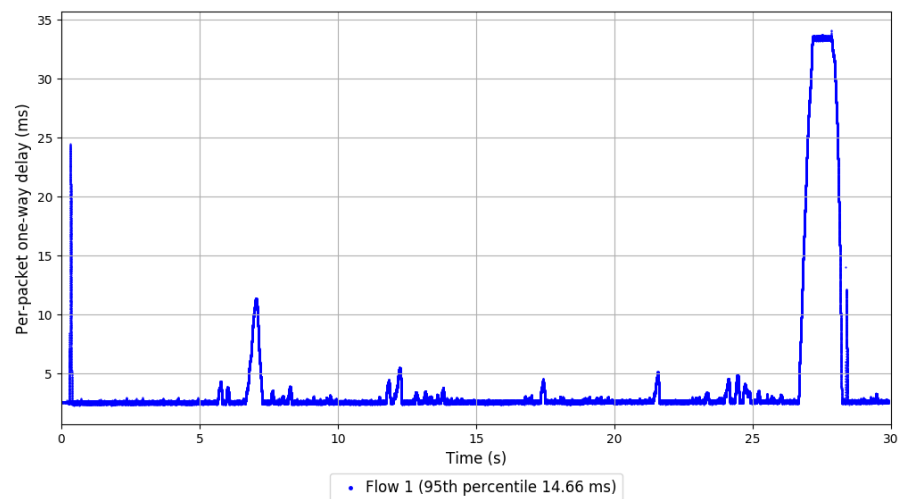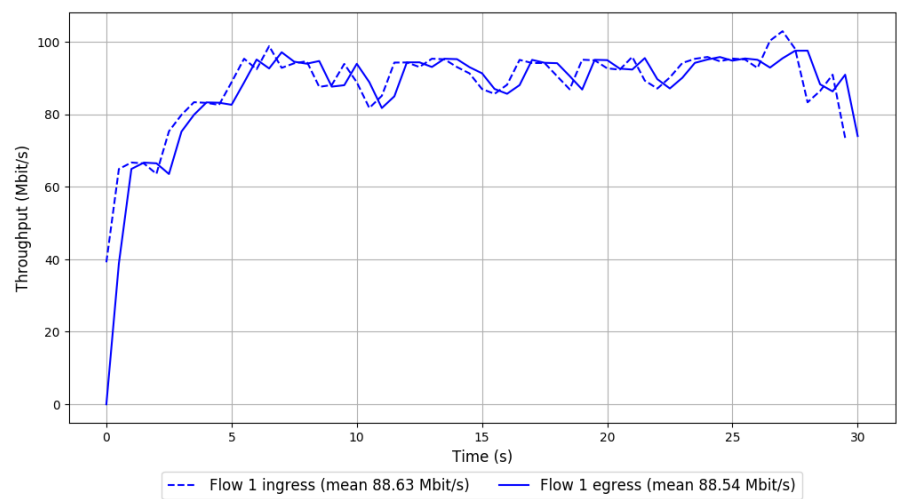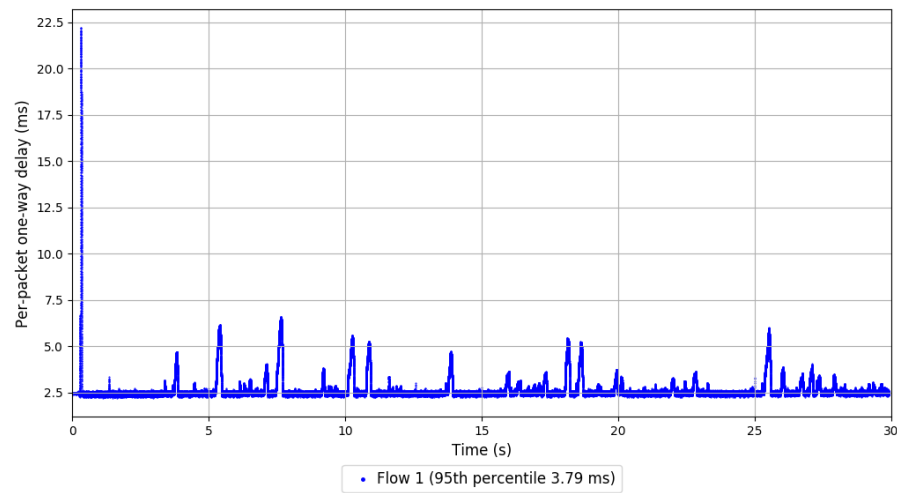
Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 88.63 Mbit/s) --- Flow 1 egress (mean 88.54 Mbit/s)

Flow 1 (95th percentile 14.66 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2018-08-01 00:43:25
End at: 2018-08-01 00:43:55
Local clock offset: 3.562 ms
Remote clock offset: -2.455 ms


# Below is generated by plot.py at 2018-08-01 03:28:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.37 Mbit/s
95th percentile per-packet one-way delay: 3.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.37 Mbit/s
95th percentile per-packet one-way delay: 3.794 ms
Loss rate: 0.00%
```
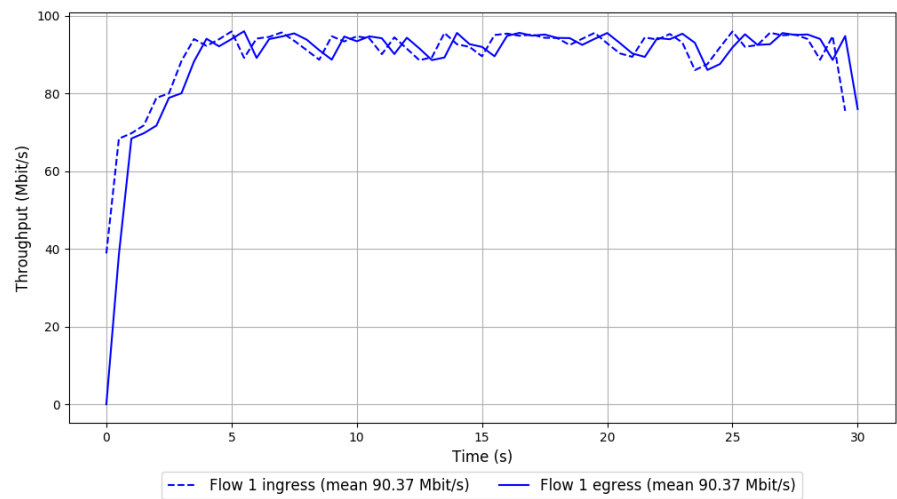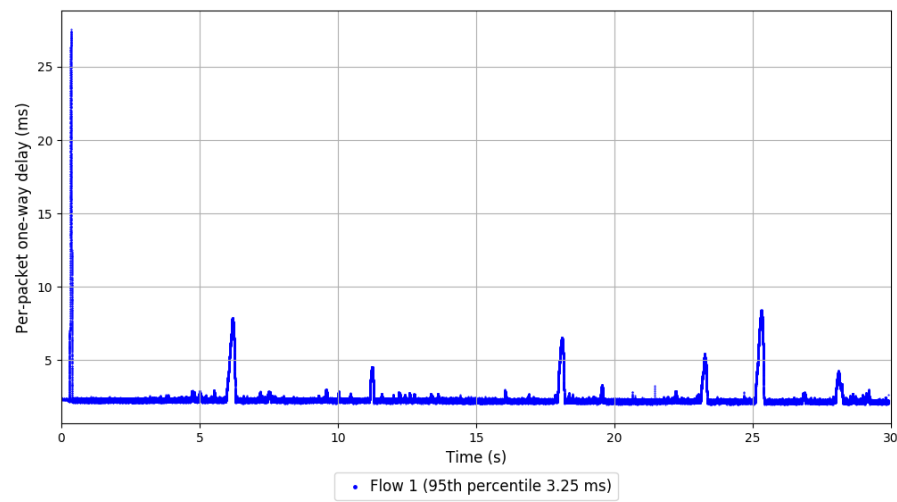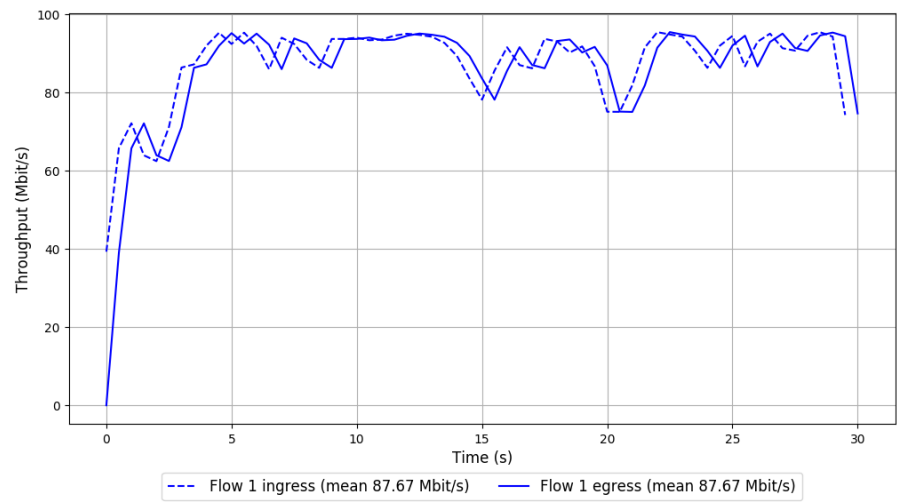
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 90.37 Mbit/s)   Flow 1 egress (mean 90.37 Mbit/s)

• Flow 1 (95th percentile 3.79 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2018-08-01 01:02:27
End at: 2018-08-01 01:02:57
Local clock offset: -1.054 ms
Remote clock offset: -2.639 ms


# Below is generated by plot.py at 2018-08-01 03:28:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 3.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.67 Mbit/s
95th percentile per-packet one-way delay: 3.249 ms
Loss rate: 0.00%
```
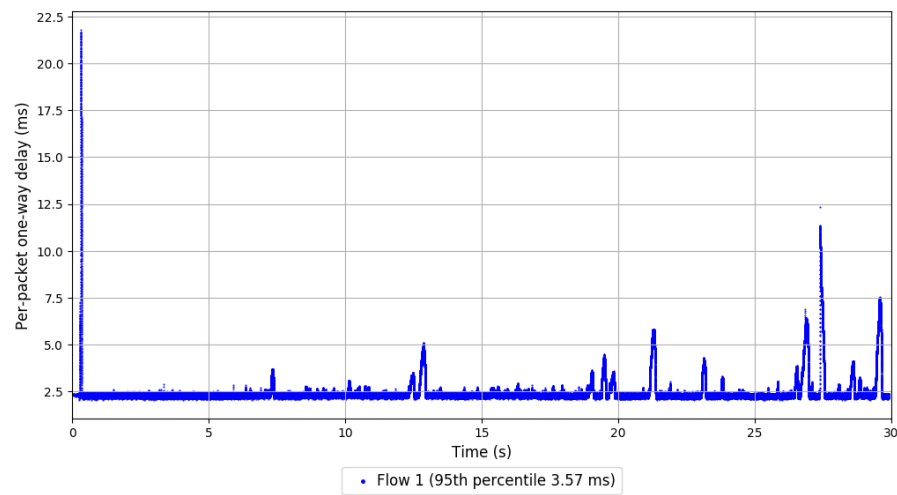
Run 4: Report of PCC-Allegro — Data Link

```
Run 5: Statistics of PCC-Allegro

Start at: 2018-08-01 01:21:29
End at: 2018-08-01 01:21:59
Local clock offset: -3.991 ms
Remote clock offset: -2.88 ms


# Below is generated by plot.py at 2018-08-01 03:28:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.99 Mbit/s
95th percentile per-packet one-way delay: 3.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.99 Mbit/s
95th percentile per-packet one-way delay: 3.572 ms
Loss rate: 0.00%
```
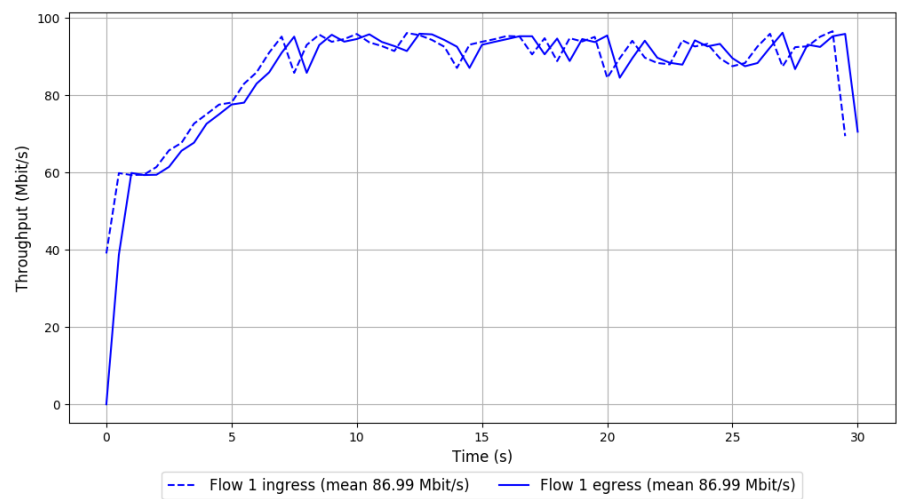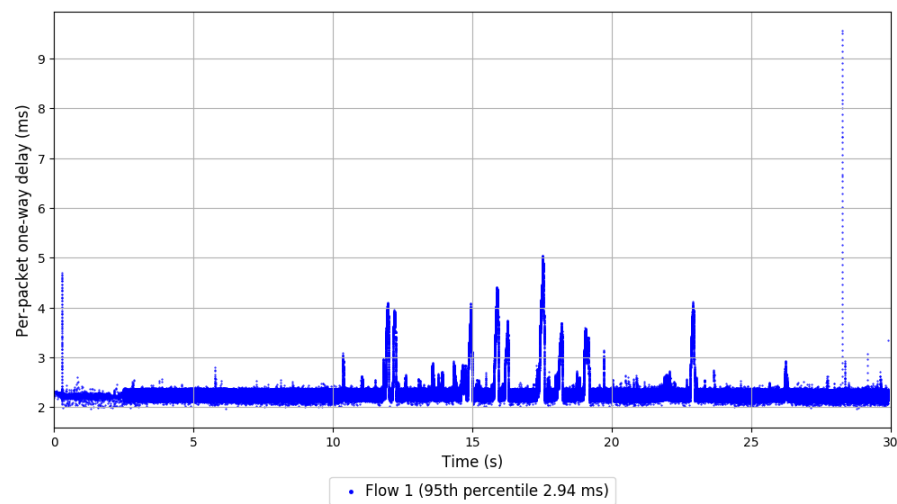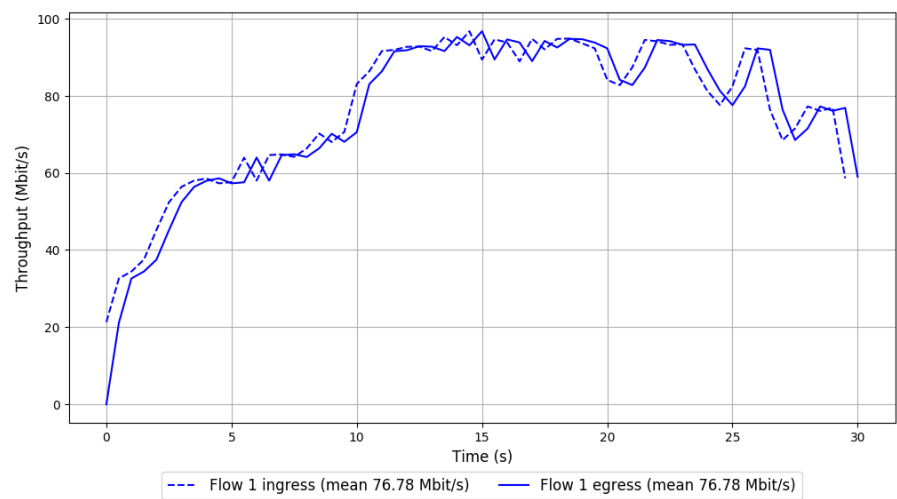
Run 5: Report of PCC-Allegro — Data Link

```
Run 6: Statistics of PCC-Allegro

Start at: 2018-08-01 01:40:31
End at: 2018-08-01 01:41:01
Local clock offset: -3.725 ms
Remote clock offset: -2.714 ms


# Below is generated by plot.py at 2018-08-01 03:28:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 2.939 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.78 Mbit/s
95th percentile per-packet one-way delay: 2.939 ms
Loss rate: 0.00%
```
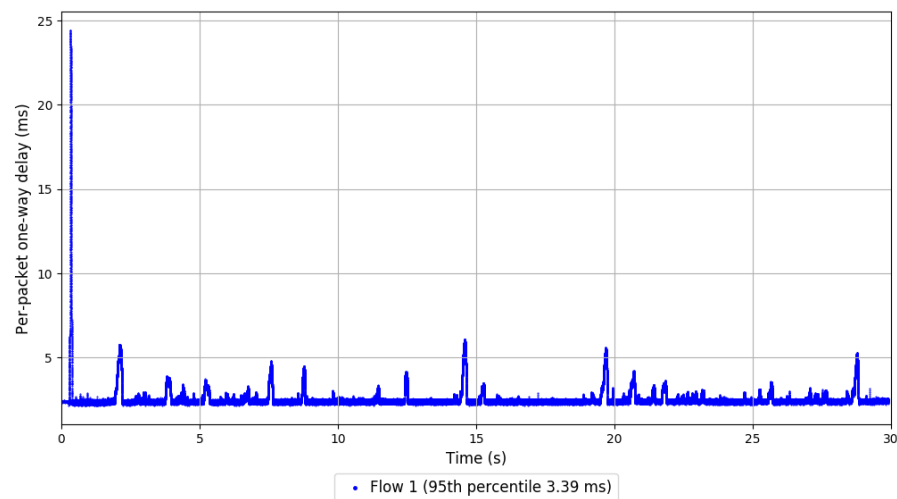
Run 6: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 76.78 Mbit/s)   Flow 1 egress (mean 76.78 Mbit/s)

Flow 1 (95th percentile 2.94 ms)

```
Run 7: Statistics of PCC-Allegro

Start at: 2018-08-01 01:59:33
End at: 2018-08-01 02:00:03
Local clock offset: -2.869 ms
Remote clock offset: -2.46 ms


# Below is generated by plot.py at 2018-08-01 03:28:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 3.390 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 3.390 ms
Loss rate: 0.00%
```
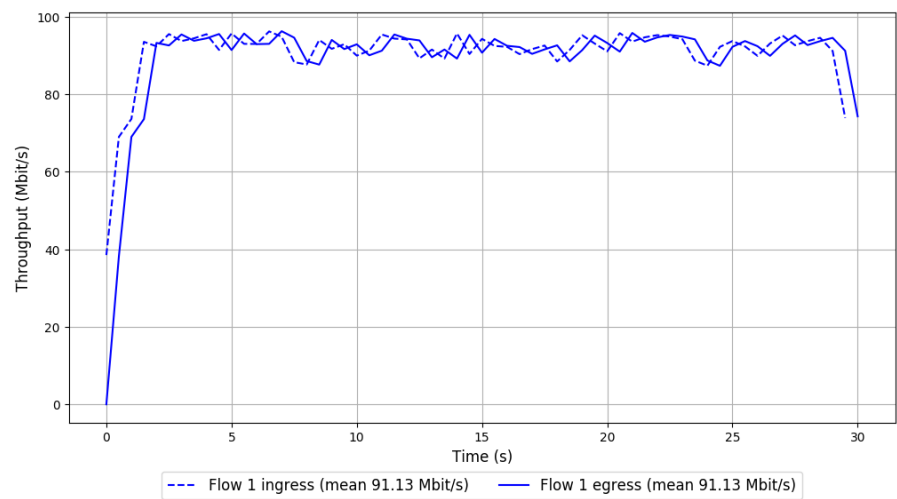
Run 7: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.13 Mbit/s)   Flow 1 egress (mean 91.13 Mbit/s)

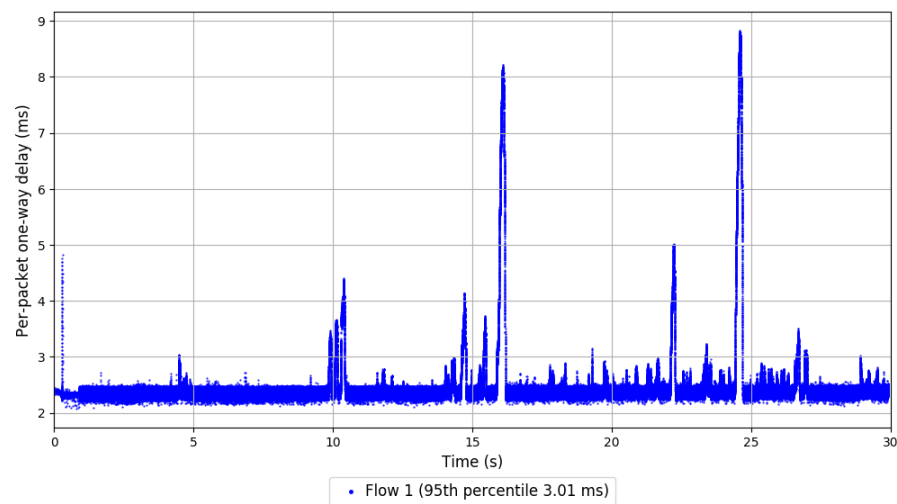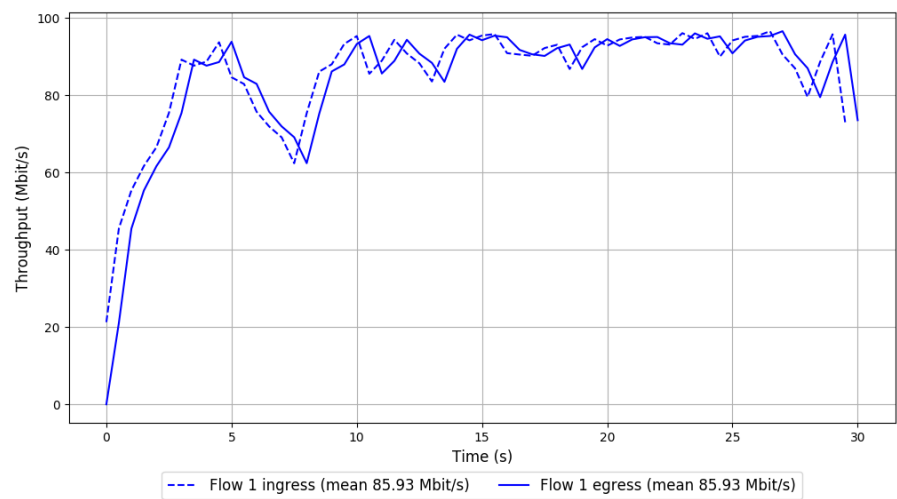
Flow 1 (95th percentile 3.39 ms)

```
Run 8: Statistics of PCC-Allegro

Start at: 2018-08-01 02:18:40
End at: 2018-08-01 02:19:10
Local clock offset: -2.067 ms
Remote clock offset: -2.755 ms


# Below is generated by plot.py at 2018-08-01 03:28:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.93 Mbit/s
95th percentile per-packet one-way delay: 3.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.93 Mbit/s
95th percentile per-packet one-way delay: 3.011 ms
Loss rate: 0.00%
```
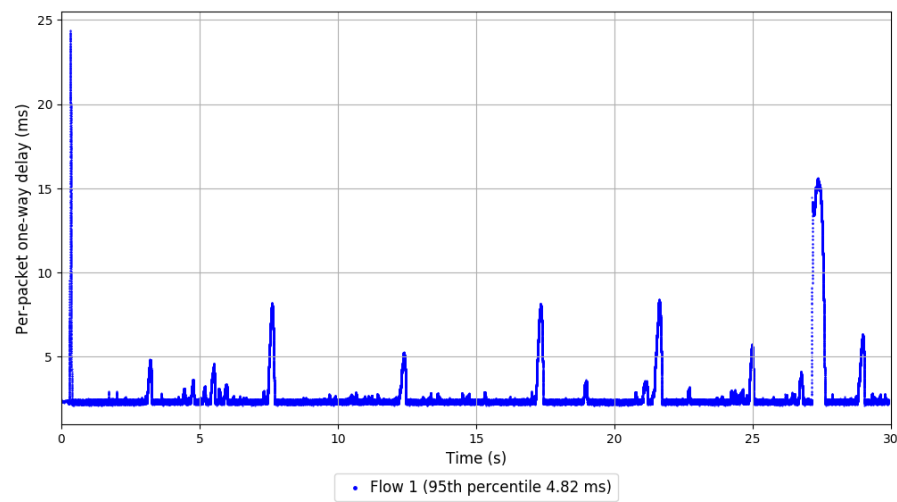
Run 8: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 85.93 Mbit/s) — — — Flow 1 egress (mean 85.93 Mbit/s) ———

Flow 1 (95th percentile 3.01 ms)

```
Run 9: Statistics of PCC-Allegro

Start at: 2018-08-01 02:37:43
End at: 2018-08-01 02:38:13
Local clock offset: -2.187 ms
Remote clock offset: -2.789 ms


# Below is generated by plot.py at 2018-08-01 03:28:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 4.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 4.824 ms
Loss rate: 0.00%
```
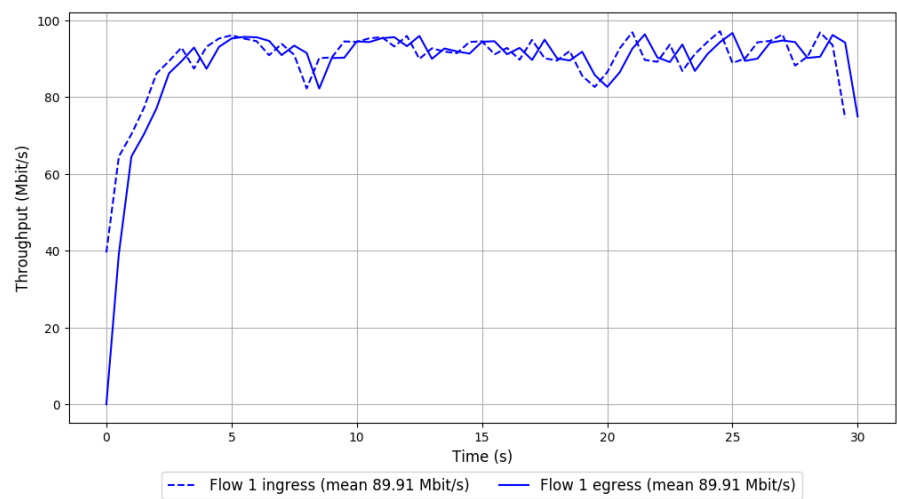
Run 9: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 89.91 Mbit/s)   Flow 1 egress (mean 89.91 Mbit/s)
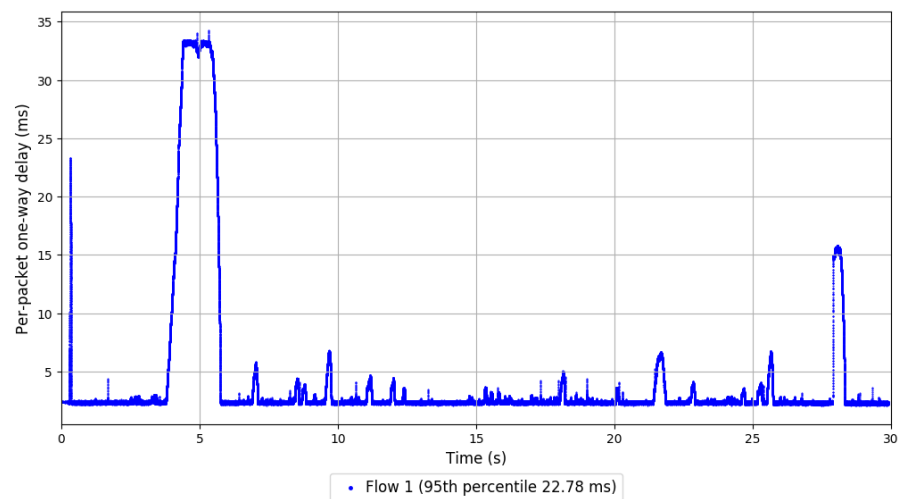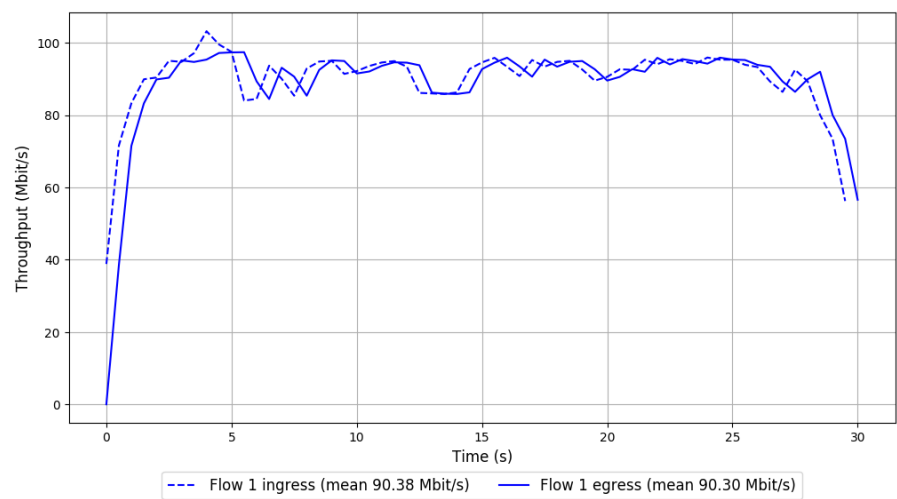

Flow 1 (95th percentile 4.82 ms)

```
Run 10: Statistics of PCC-Allegro

Start at: 2018-08-01 02:56:50
End at: 2018-08-01 02:57:20
Local clock offset: -2.914 ms
Remote clock offset: -2.971 ms


# Below is generated by plot.py at 2018-08-01 03:29:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 22.783 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 22.783 ms
Loss rate: 0.09%
```

Run 10: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 90.38 Mbit/s) —— Flow 1 egress (mean 90.30 Mbit/s)
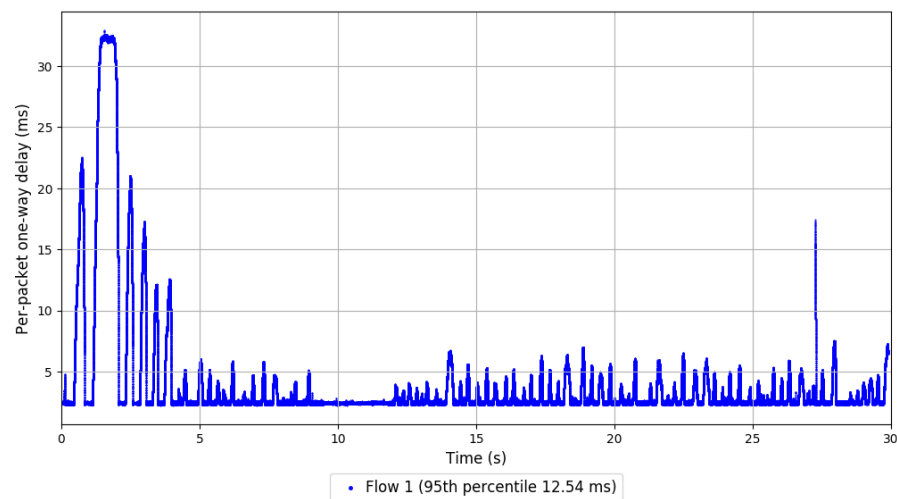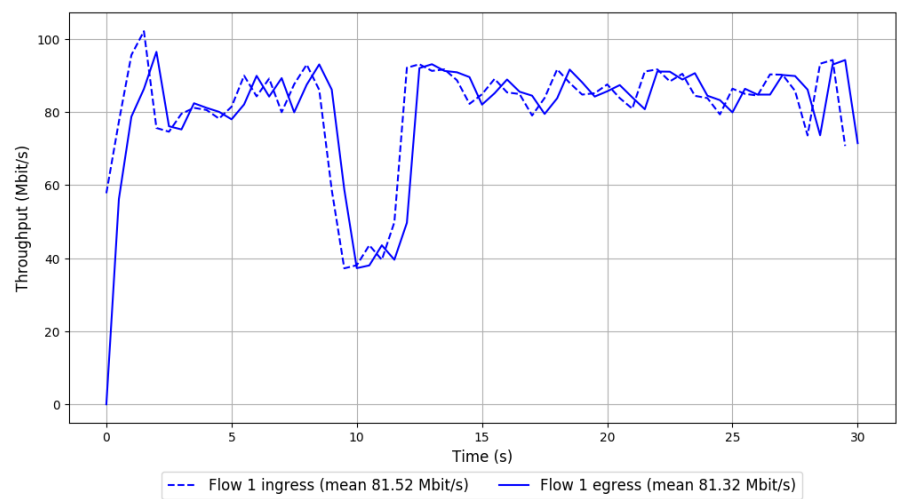

• Flow 1 (95th percentile 22.78 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-01 00:14:21
End at: 2018-08-01 00:14:51
Local clock offset: 1.582 ms
Remote clock offset: -1.766 ms


# Below is generated by plot.py at 2018-08-01 03:29:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 12.539 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 81.32 Mbit/s
95th percentile per-packet one-way delay: 12.539 ms
Loss rate: 0.22%
```
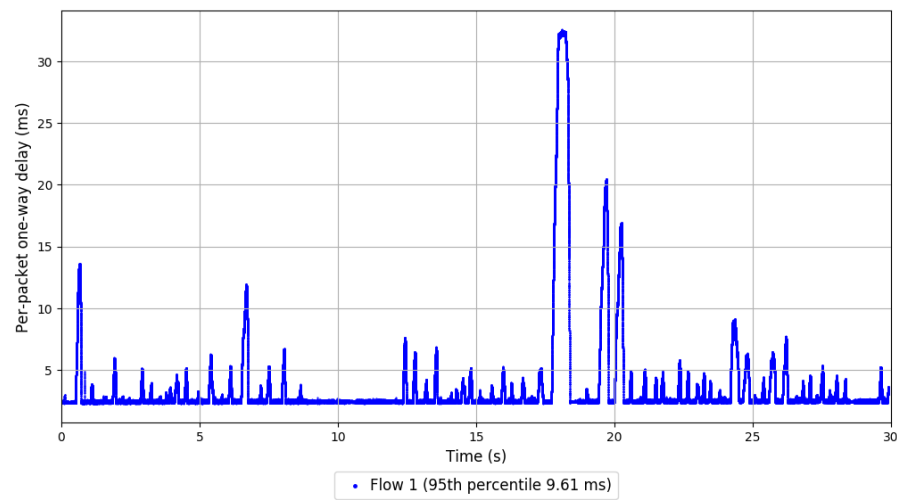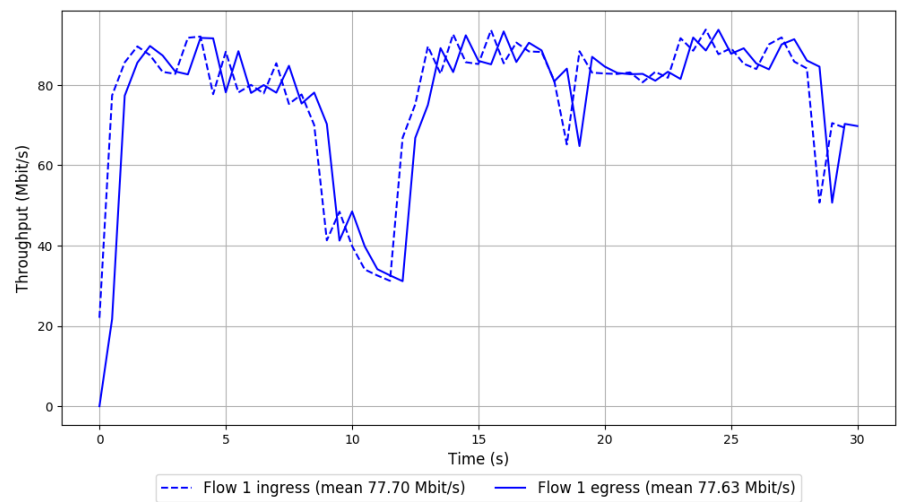
Run 1: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 81.52 Mbit/s)   Flow 1 egress (mean 81.32 Mbit/s)

• Flow 1 (95th percentile 12.54 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2018-08-01 00:33:20
End at: 2018-08-01 00:33:50
Local clock offset: 2.909 ms
Remote clock offset: -2.35 ms


# Below is generated by plot.py at 2018-08-01 03:29:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.63 Mbit/s
95th percentile per-packet one-way delay: 9.608 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 77.63 Mbit/s
95th percentile per-packet one-way delay: 9.608 ms
Loss rate: 0.09%
```

Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 77.70 Mbit/s) ---- Flow 1 egress (mean 77.63 Mbit/s) ——
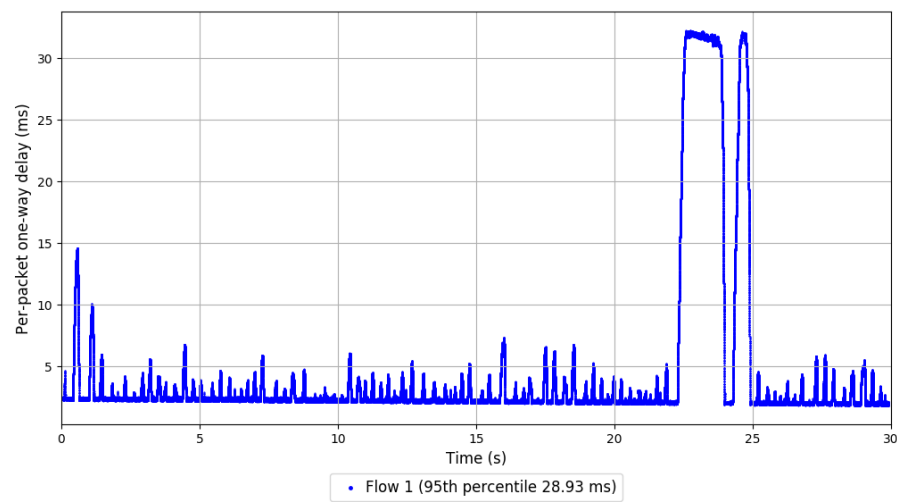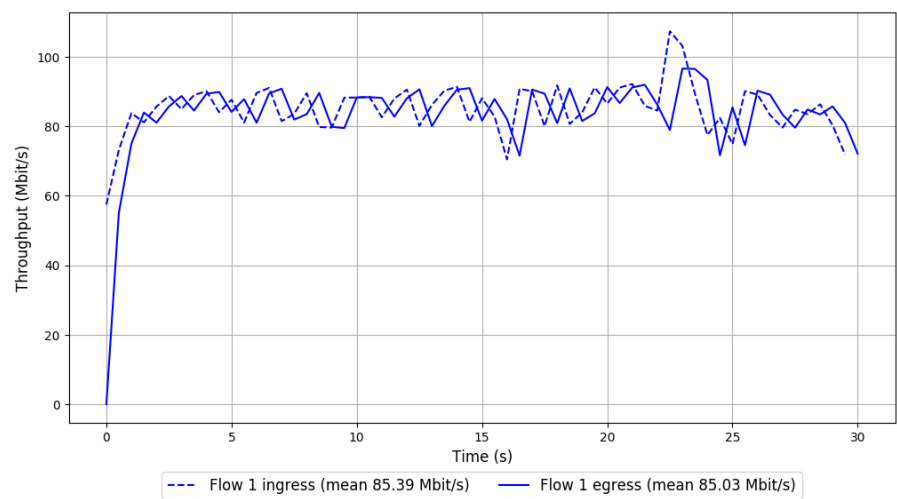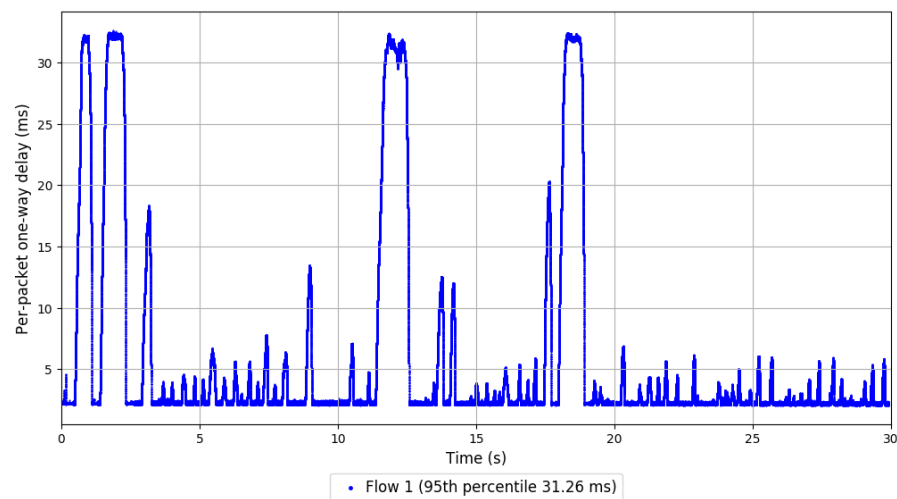

Flow 1 (95th percentile 9.61 ms)

167

```
Run 3: Statistics of PCC-Expr

Start at: 2018-08-01 00:52:21
End at: 2018-08-01 00:52:51
Local clock offset: 4.242 ms
Remote clock offset: -2.319 ms


# Below is generated by plot.py at 2018-08-01 03:30:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 28.933 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 85.03 Mbit/s
95th percentile per-packet one-way delay: 28.933 ms
Loss rate: 0.43%
```

Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 85.39 Mbit/s)   Flow 1 egress (mean 85.03 Mbit/s)
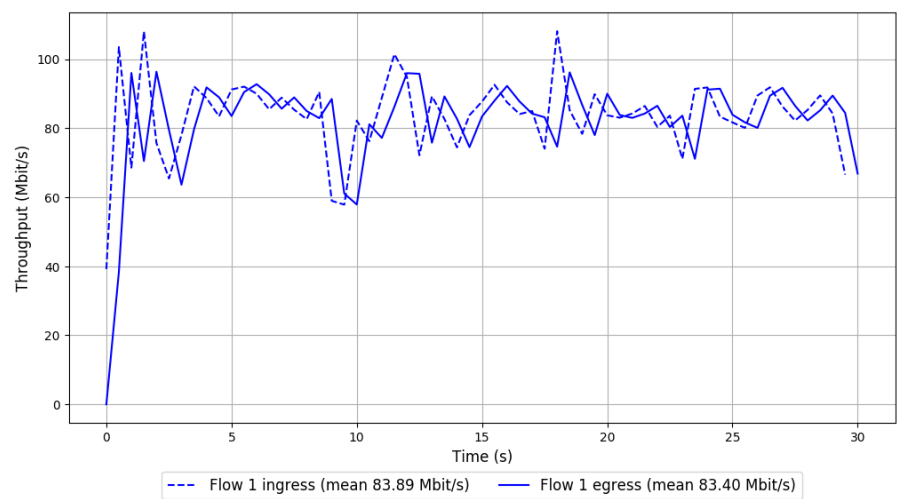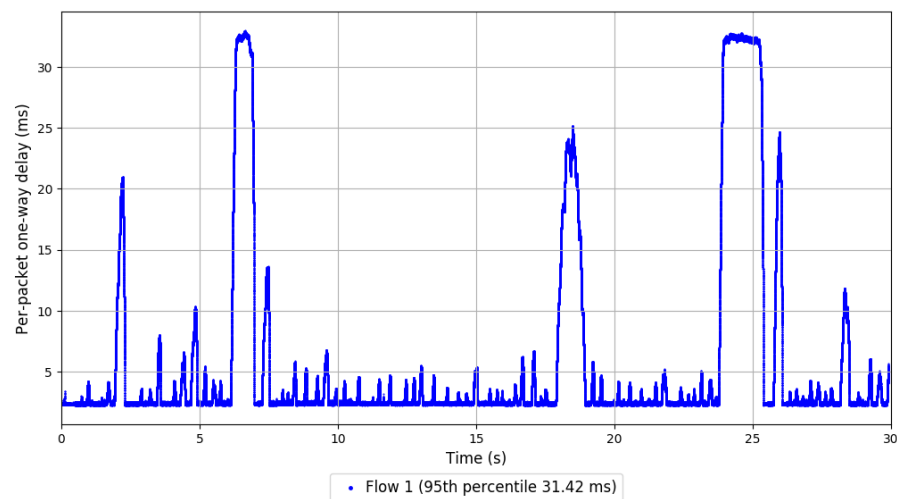

Flow 1 (95th percentile 28.93 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2018-08-01 01:11:23
End at: 2018-08-01 01:11:53
Local clock offset: -2.93 ms
Remote clock offset: -2.872 ms


# Below is generated by plot.py at 2018-08-01 03:30:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.40 Mbit/s
95th percentile per-packet one-way delay: 31.262 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 83.40 Mbit/s
95th percentile per-packet one-way delay: 31.262 ms
Loss rate: 0.59%
```

Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 83.89 Mbit/s) — — — — Flow 1 egress (mean 83.40 Mbit/s)

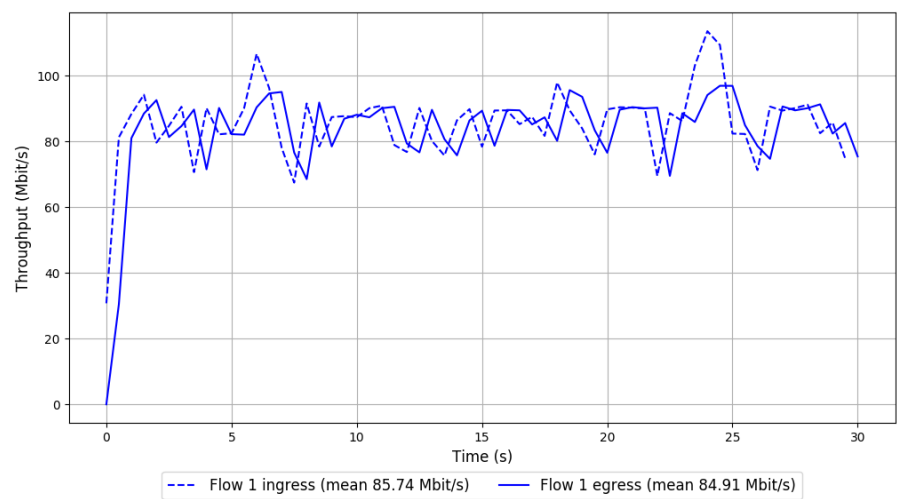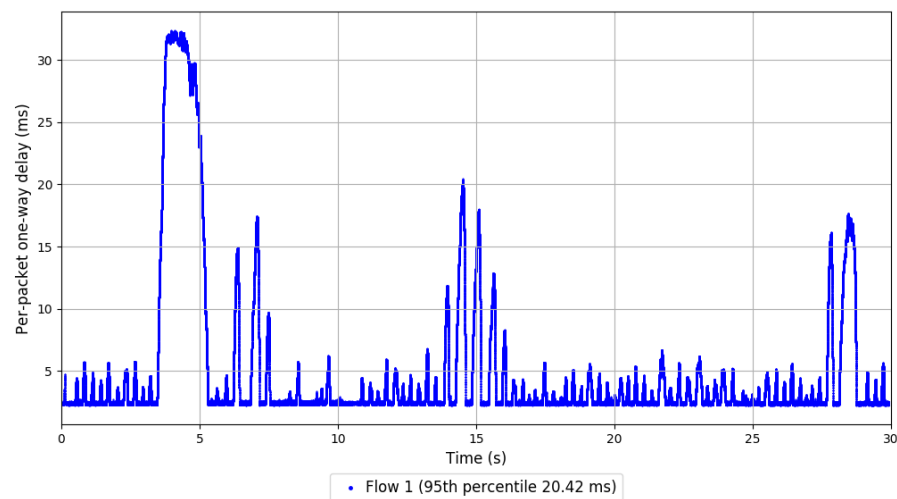

• Flow 1 (95th percentile 31.26 ms)

```
Run 5: Statistics of PCC-Expr

Start at: 2018-08-01 01:30:26
End at: 2018-08-01 01:30:56
Local clock offset: -3.695 ms
Remote clock offset: -2.853 ms


# Below is generated by plot.py at 2018-08-01 03:30:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 31.417 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 84.91 Mbit/s
95th percentile per-packet one-way delay: 31.417 ms
Loss rate: 0.96%
```

Run 5: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 85.74 Mbit/s) --- Flow 1 egress (mean 84.91 Mbit/s)

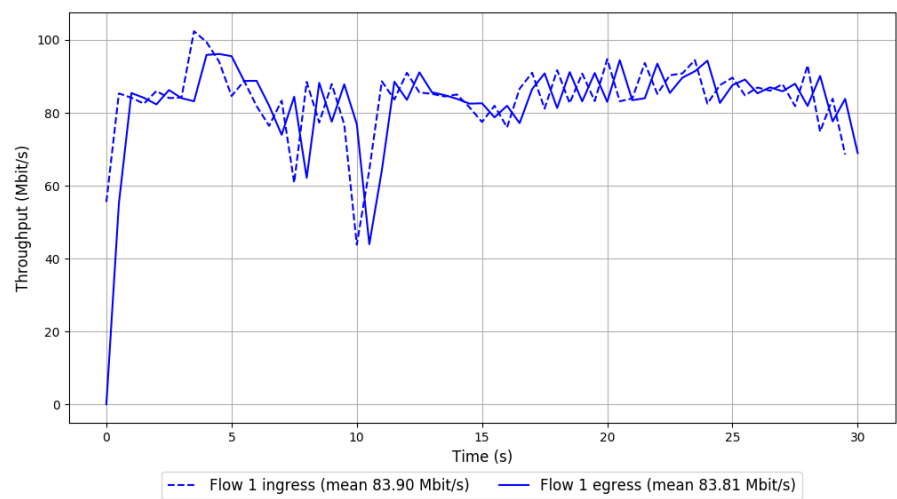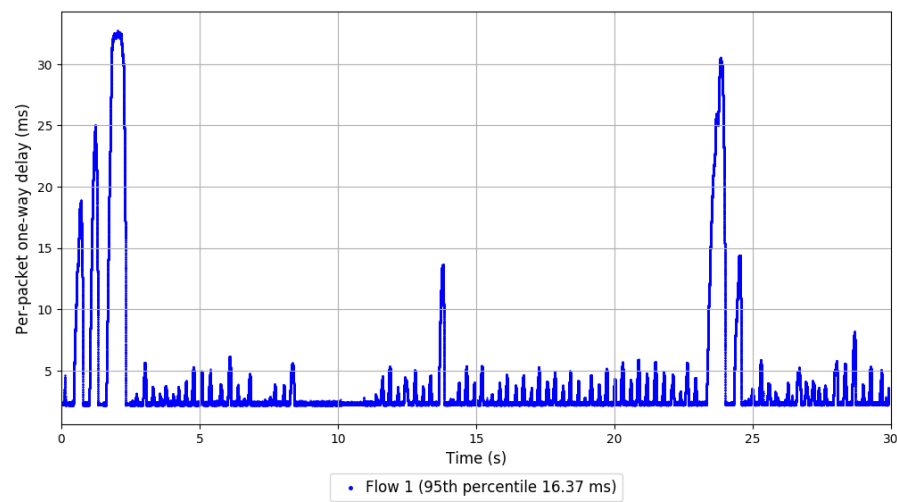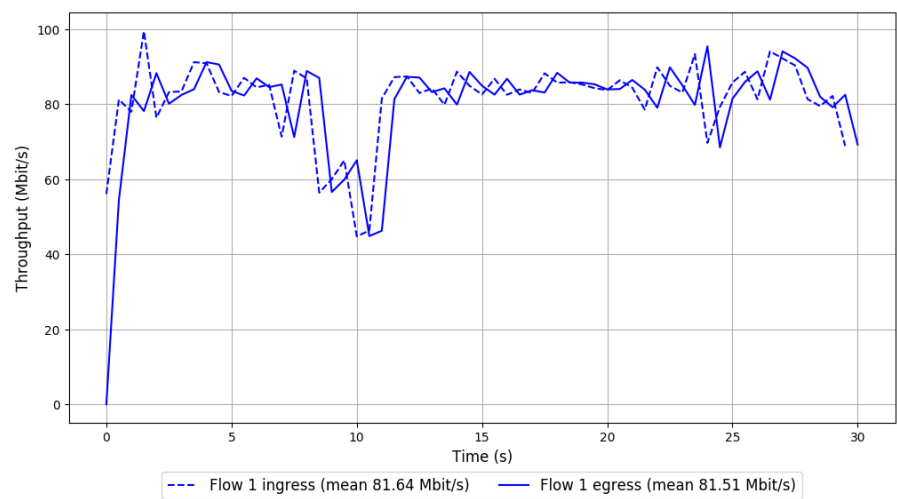
Flow 1 (95th percentile 31.42 ms)

```
Run 6: Statistics of PCC-Expr

Start at: 2018-08-01 01:49:28
End at: 2018-08-01 01:49:58
Local clock offset: -3.945 ms
Remote clock offset: -2.459 ms


# Below is generated by plot.py at 2018-08-01 03:30:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.81 Mbit/s
95th percentile per-packet one-way delay: 20.424 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 83.81 Mbit/s
95th percentile per-packet one-way delay: 20.424 ms
Loss rate: 0.10%
```

Run 6: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 83.90 Mbit/s)   Flow 1 egress (mean 83.81 Mbit/s)

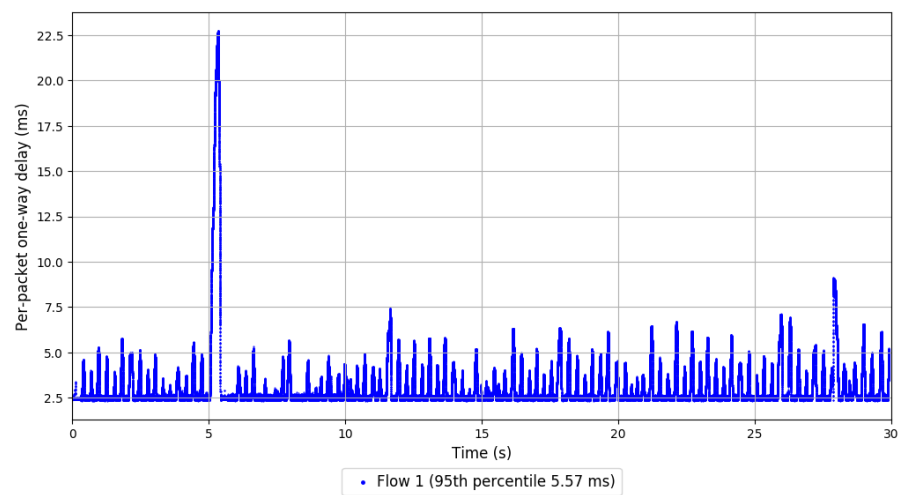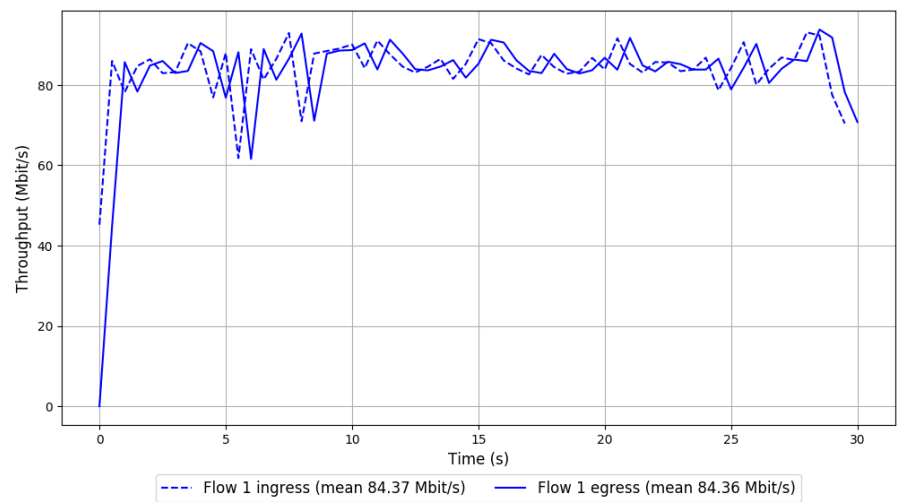Flow 1 (95th percentile 20.42 ms)

```
Run 7: Statistics of PCC-Expr

Start at: 2018-08-01 02:08:30
End at: 2018-08-01 02:09:00
Local clock offset: -2.256 ms
Remote clock offset: -2.643 ms


# Below is generated by plot.py at 2018-08-01 03:30:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.51 Mbit/s
95th percentile per-packet one-way delay: 16.373 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 81.51 Mbit/s
95th percentile per-packet one-way delay: 16.373 ms
Loss rate: 0.15%
```

Run 7: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 81.64 Mbit/s)   Flow 1 egress (mean 81.51 Mbit/s)

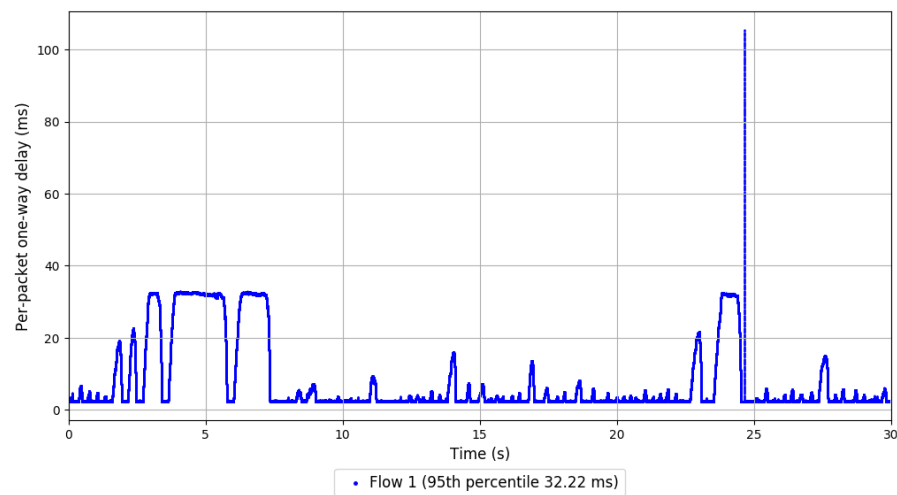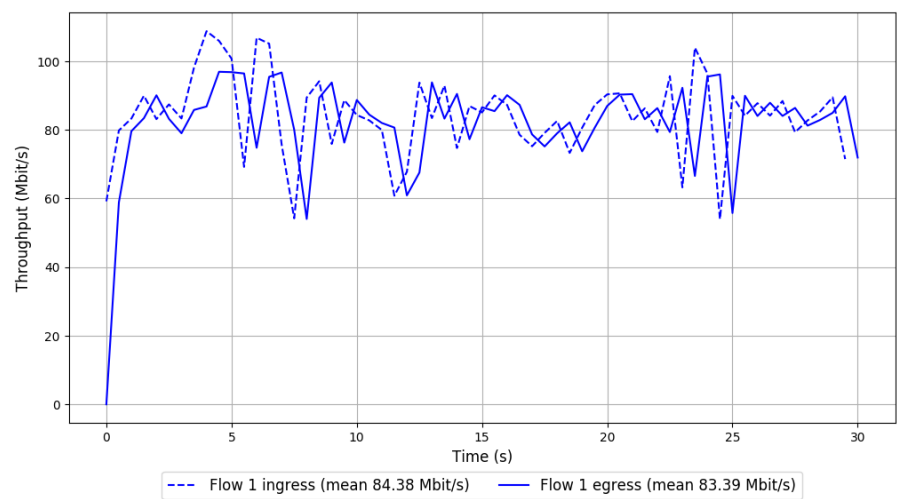
Flow 1 (95th percentile 16.37 ms)

```
Run 8: Statistics of PCC-Expr

Start at: 2018-08-01 02:27:37
End at: 2018-08-01 02:28:07
Local clock offset: -2.169 ms
Remote clock offset: -2.703 ms


# Below is generated by plot.py at 2018-08-01 03:31:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 5.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 5.569 ms
Loss rate: 0.00%
```

Run 8: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 84.37 Mbit/s)   Flow 1 egress (mean 84.36 Mbit/s)
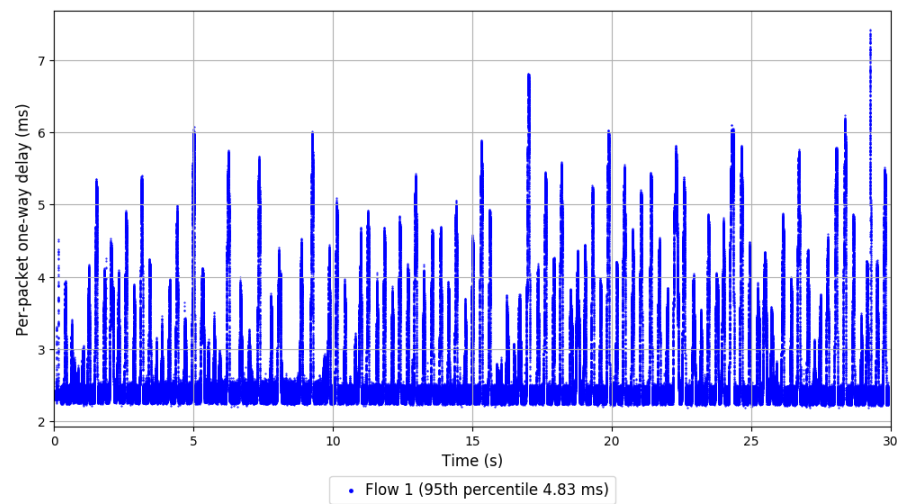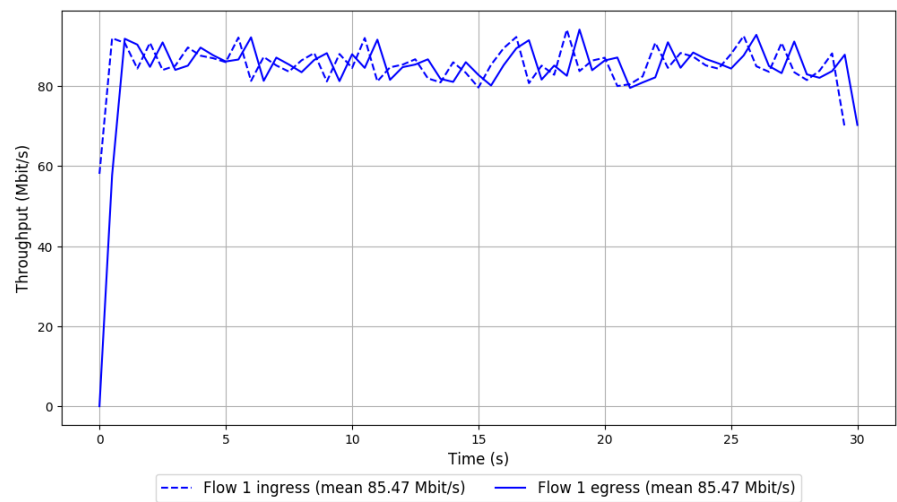

Flow 1 (95th percentile 5.57 ms)

```
Run 9: Statistics of PCC-Expr

Start at: 2018-08-01 02:46:44
End at: 2018-08-01 02:47:14
Local clock offset: -2.251 ms
Remote clock offset: -2.971 ms


# Below is generated by plot.py at 2018-08-01 03:31:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.39 Mbit/s
95th percentile per-packet one-way delay: 32.217 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 83.39 Mbit/s
95th percentile per-packet one-way delay: 32.217 ms
Loss rate: 1.17%
```

Run 9: Report of PCC-Expr — Data Link
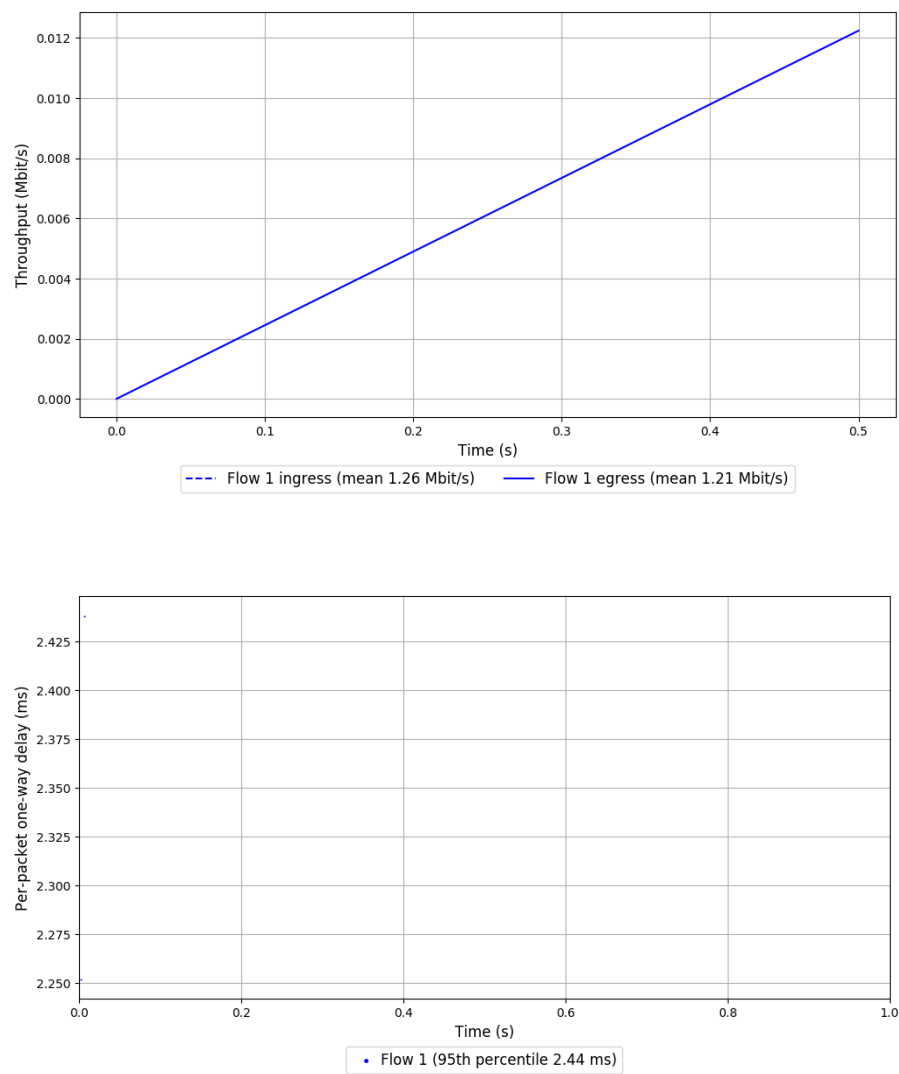
```
Run 10: Statistics of PCC-Expr

Start at: 2018-08-01 03:05:47
End at: 2018-08-01 03:06:17
Local clock offset: -3.732 ms
Remote clock offset: -3.057 ms


# Below is generated by plot.py at 2018-08-01 03:31:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 4.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.47 Mbit/s
95th percentile per-packet one-way delay: 4.828 ms
Loss rate: 0.00%
```
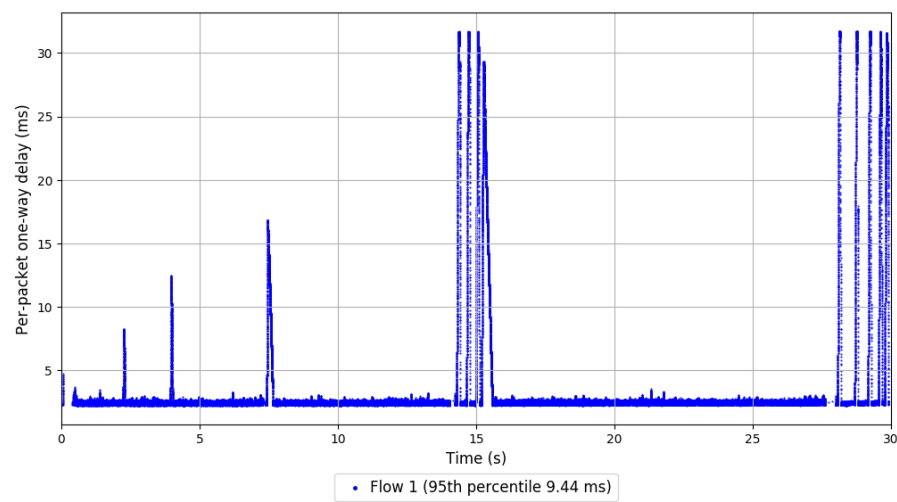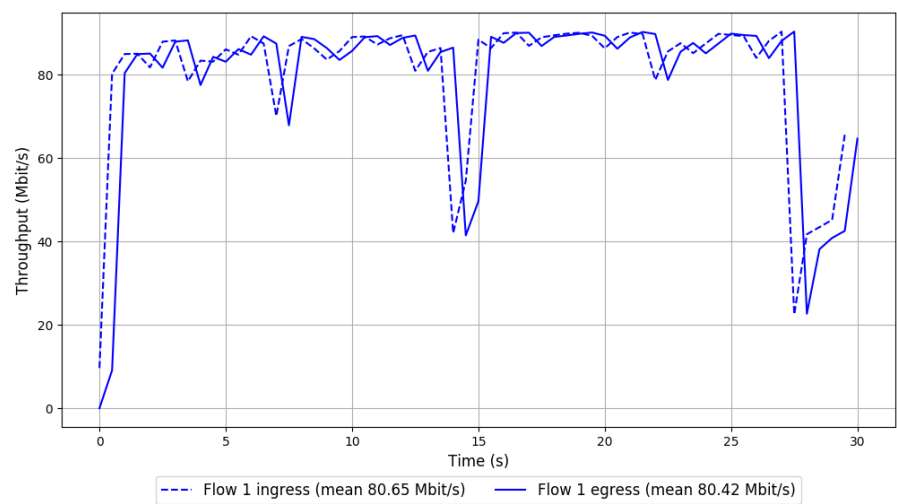
Run 10: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 85.47 Mbit/s)   Flow 1 egress (mean 85.47 Mbit/s)

• Flow 1 (95th percentile 4.83 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-08-01 00:20:00
End at: 2018-08-01 00:20:30
Local clock offset: 2.007 ms
Remote clock offset: -1.611 ms
```

Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-08-01 00:38:59
End at: 2018-08-01 00:39:29
Local clock offset: 3.32 ms
Remote clock offset: -2.43 ms


# Below is generated by plot.py at 2018-08-01 03:31:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.42 Mbit/s
95th percentile per-packet one-way delay: 9.436 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 80.42 Mbit/s
95th percentile per-packet one-way delay: 9.436 ms
Loss rate: 0.28%
```

Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-08-01 00:58:01
End at: 2018-08-01 00:58:31
Local clock offset: 0.753 ms
Remote clock offset: -2.428 ms


# Below is generated by plot.py at 2018-08-01 03:31:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.37 Mbit/s
95th percentile per-packet one-way delay: 3.087 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 76.37 Mbit/s
95th percentile per-packet one-way delay: 3.087 ms
Loss rate: 0.36%
```
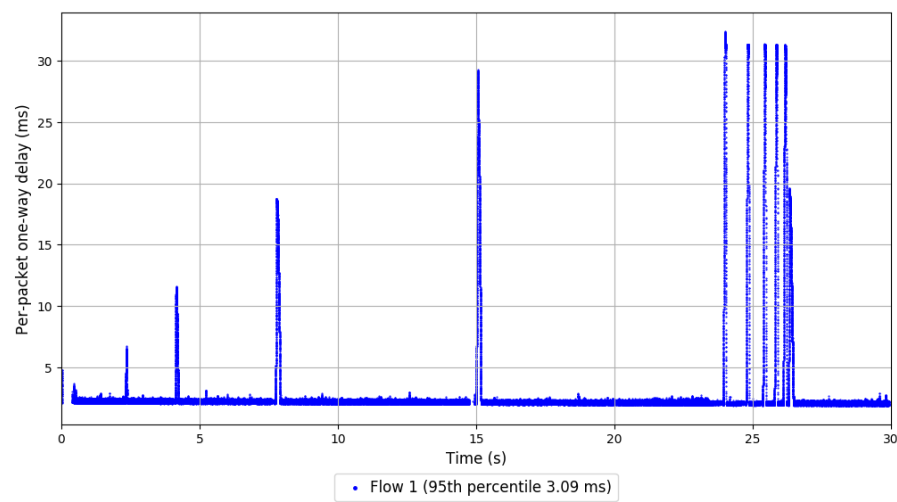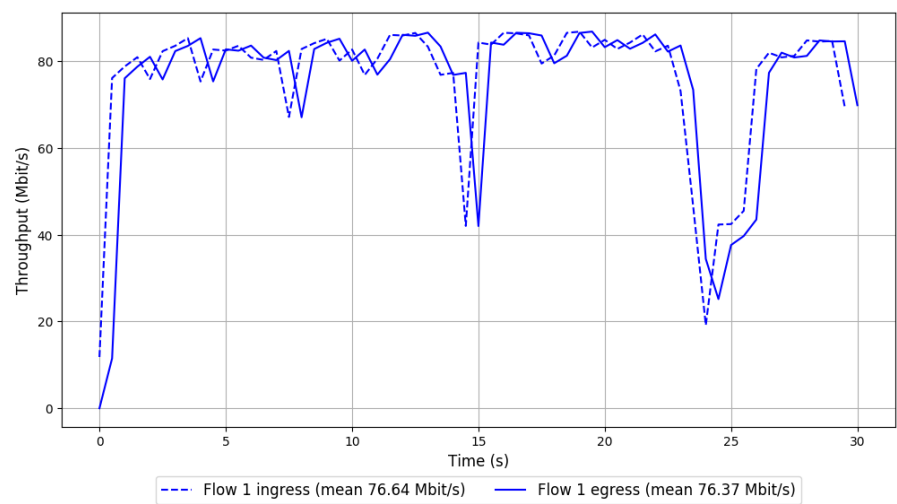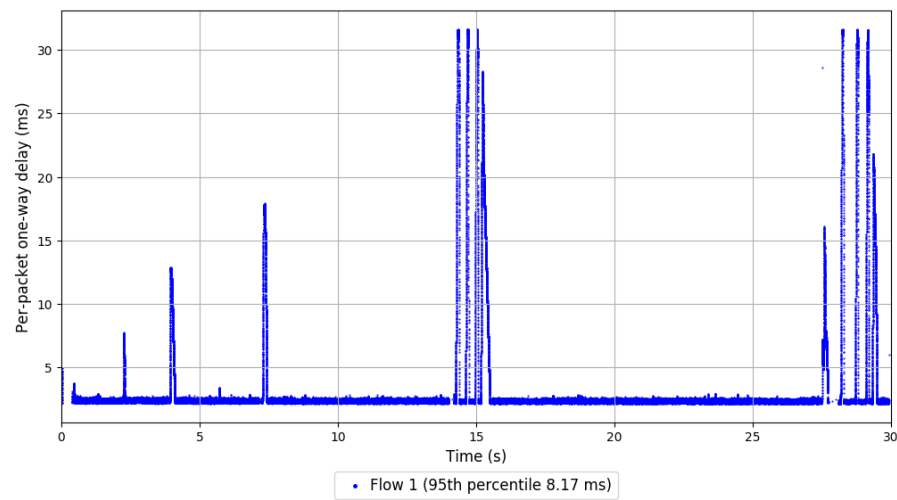
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 76.64 Mbit/s)   Flow 1 egress (mean 76.37 Mbit/s)

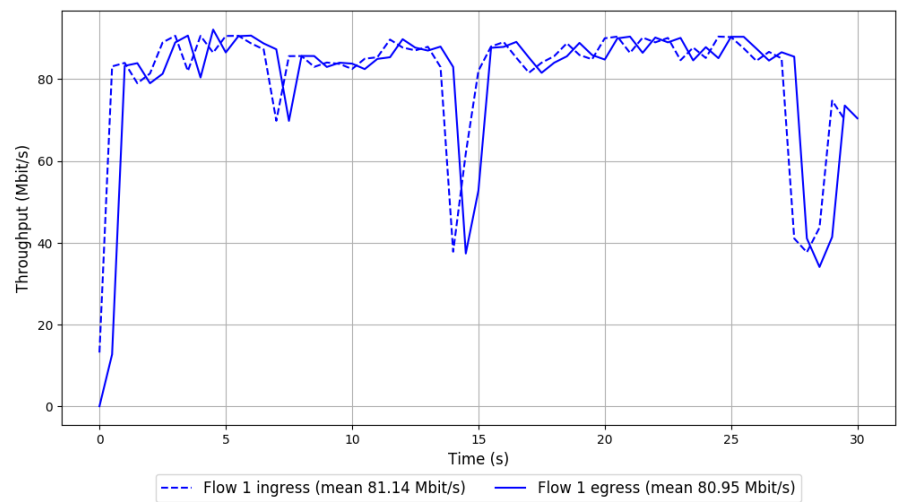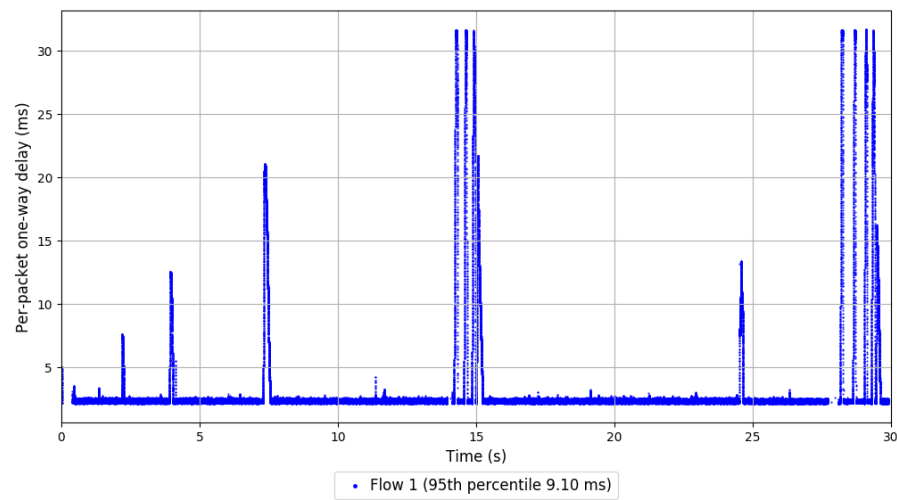Flow 1 (95th percentile 3.09 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-08-01 01:17:03
End at: 2018-08-01 01:17:33
Local clock offset: -3.609 ms
Remote clock offset: -2.834 ms

# Below is generated by plot.py at 2018-08-01 03:31:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.95 Mbit/s
95th percentile per-packet one-way delay: 8.169 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 80.95 Mbit/s
95th percentile per-packet one-way delay: 8.169 ms
Loss rate: 0.22%
```

Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 81.14 Mbit/s) — — — Flow 1 egress (mean 80.95 Mbit/s) ———
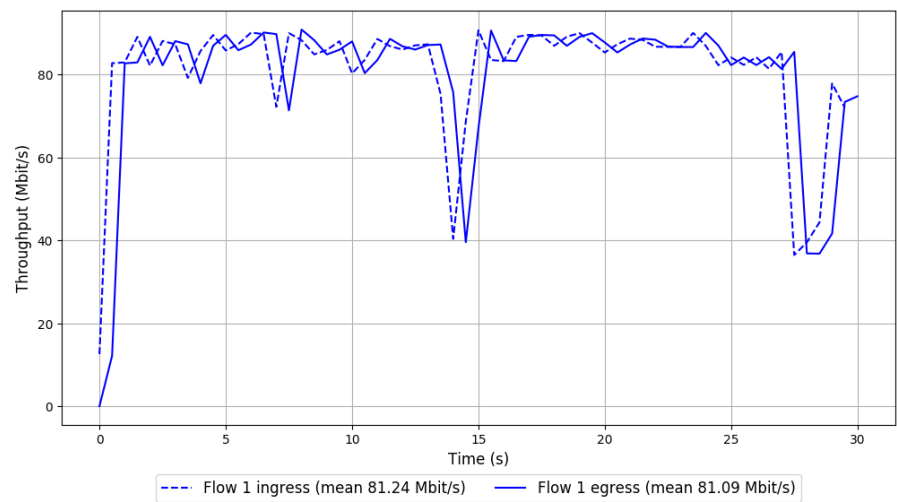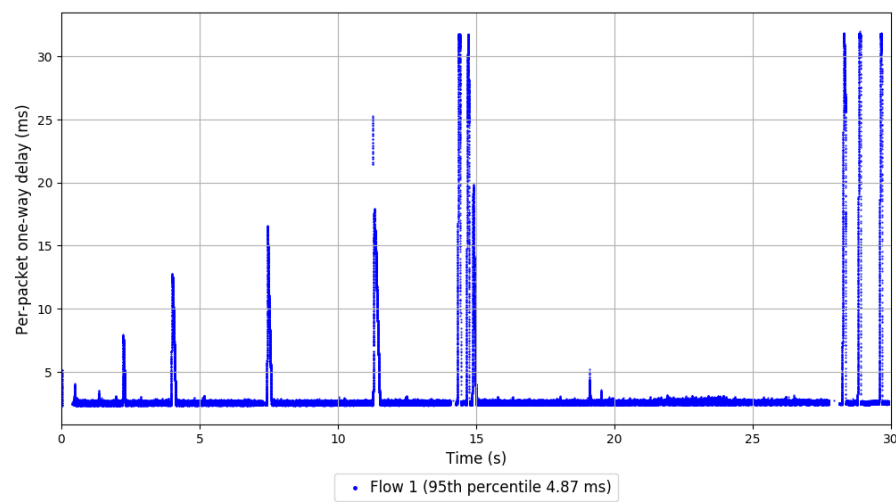

Flow 1 (95th percentile 8.17 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-08-01 01:36:05
End at: 2018-08-01 01:36:35
Local clock offset: -3.679 ms
Remote clock offset: -2.745 ms


# Below is generated by plot.py at 2018-08-01 03:31:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.09 Mbit/s
95th percentile per-packet one-way delay: 9.095 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 81.09 Mbit/s
95th percentile per-packet one-way delay: 9.095 ms
Loss rate: 0.19%
```

Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 81.24 Mbit/s)   Flow 1 egress (mean 81.09 Mbit/s)

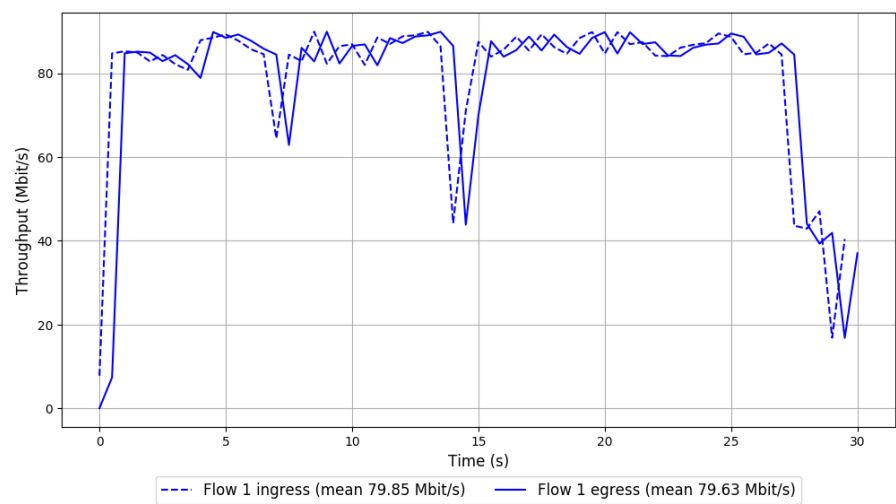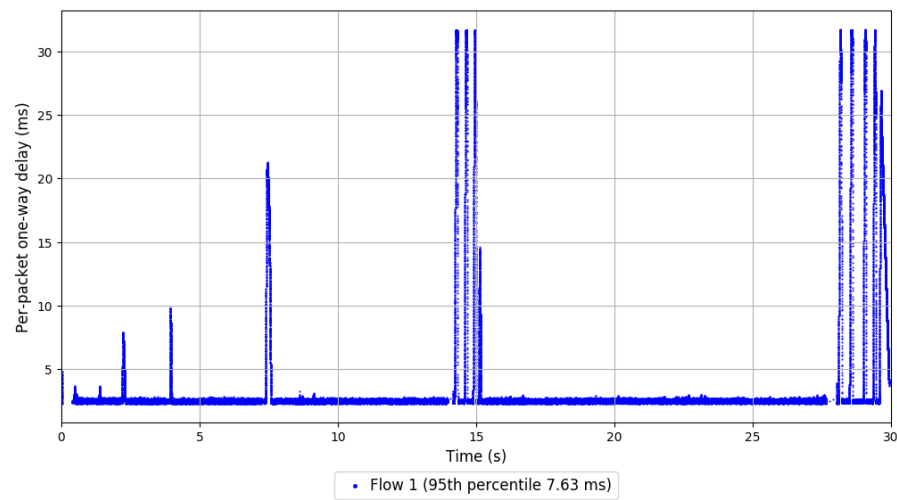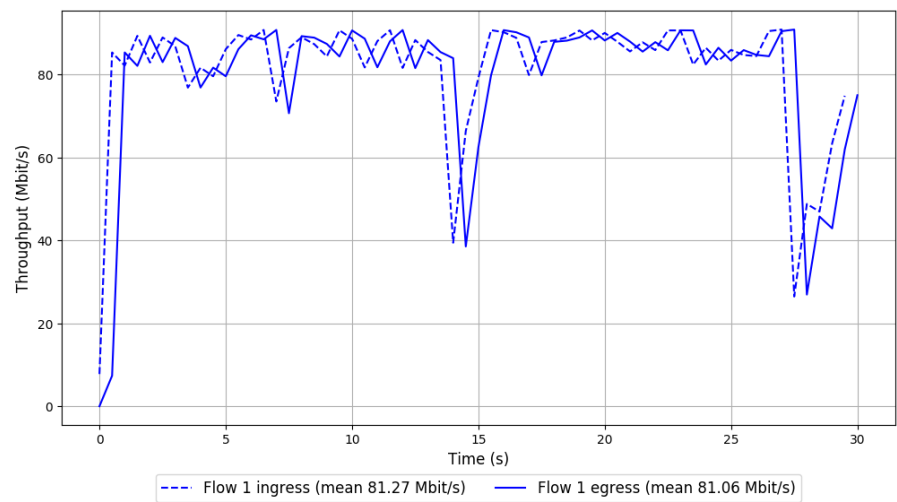Flow 1 (95th percentile 9.10 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-08-01 01:55:07
End at: 2018-08-01 01:55:37
Local clock offset: -3.527 ms
Remote clock offset: -2.459 ms


# Below is generated by plot.py at 2018-08-01 03:32:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.63 Mbit/s
95th percentile per-packet one-way delay: 4.871 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 79.63 Mbit/s
95th percentile per-packet one-way delay: 4.871 ms
Loss rate: 0.28%
```

Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 79.85 Mbit/s)   Flow 1 egress (mean 79.63 Mbit/s)

Flow 1 (95th percentile 4.87 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-08-01 02:14:09
End at: 2018-08-01 02:14:39
Local clock offset: -2.097 ms
Remote clock offset: -2.599 ms


# Below is generated by plot.py at 2018-08-01 03:32:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.06 Mbit/s
95th percentile per-packet one-way delay: 7.632 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 81.06 Mbit/s
95th percentile per-packet one-way delay: 7.632 ms
Loss rate: 0.25%
```
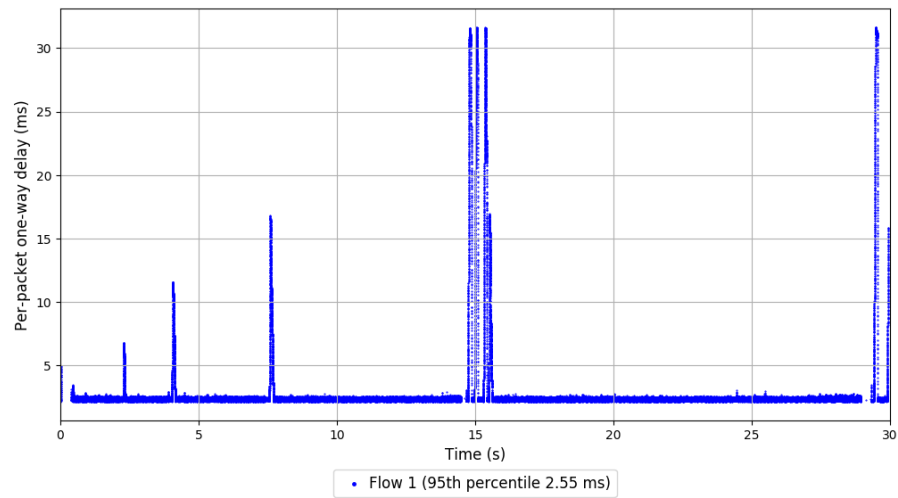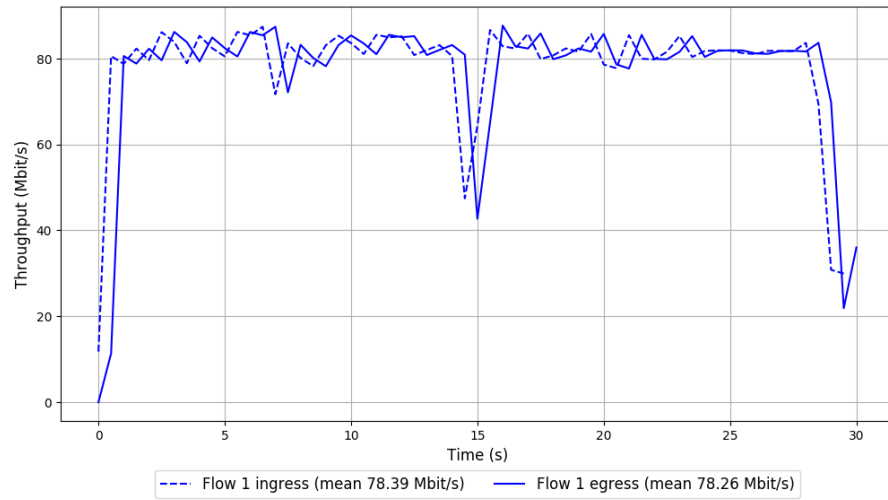
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 81.27 Mbit/s) — — —   Flow 1 egress (mean 81.06 Mbit/s) ———

• Flow 1 (95th percentile 7.63 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-08-01 02:33:17
End at: 2018-08-01 02:33:47
Local clock offset: -2.15 ms
Remote clock offset: -2.785 ms


# Below is generated by plot.py at 2018-08-01 03:32:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.26 Mbit/s
95th percentile per-packet one-way delay: 2.553 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 78.26 Mbit/s
95th percentile per-packet one-way delay: 2.553 ms
Loss rate: 0.12%
```
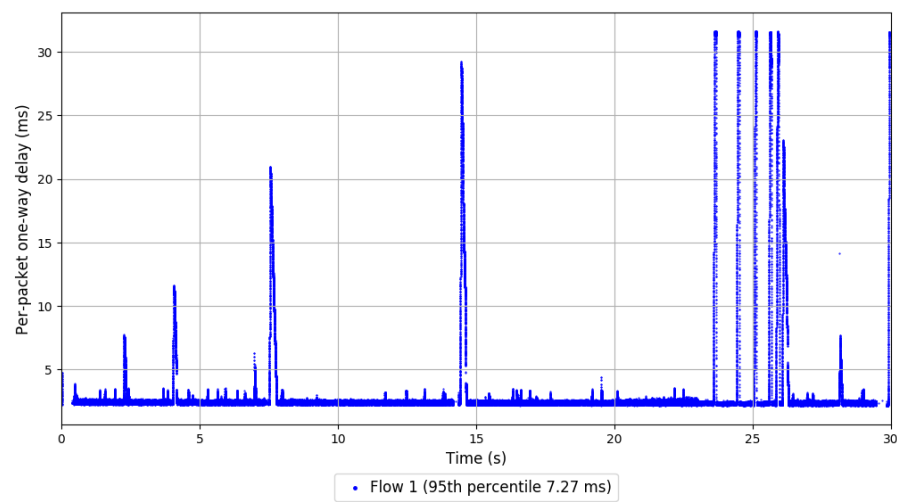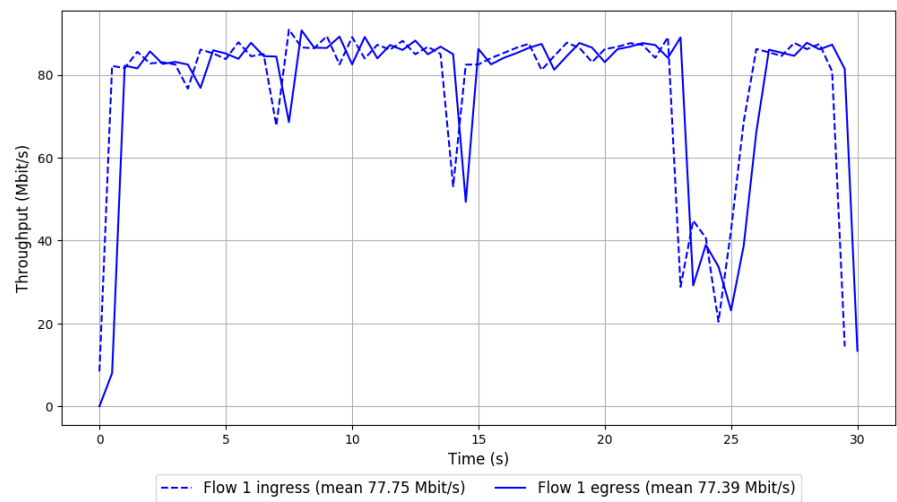
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 78.39 Mbit/s)   Flow 1 egress (mean 78.26 Mbit/s)

Flow 1 (95th percentile 2.55 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-08-01 02:52:23
End at: 2018-08-01 02:52:53
Local clock offset: -2.29 ms
Remote clock offset: -2.958 ms

# Below is generated by plot.py at 2018-08-01 03:32:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.39 Mbit/s
95th percentile per-packet one-way delay: 7.274 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 77.39 Mbit/s
95th percentile per-packet one-way delay: 7.274 ms
Loss rate: 0.37%
```
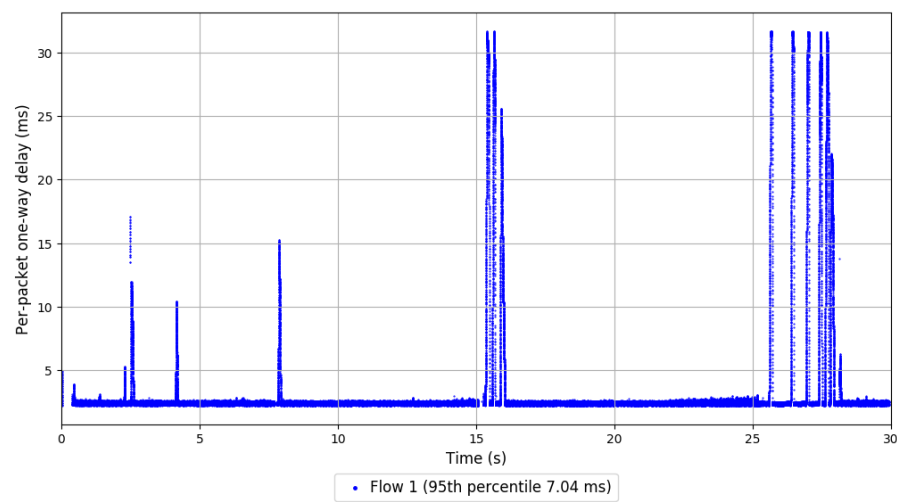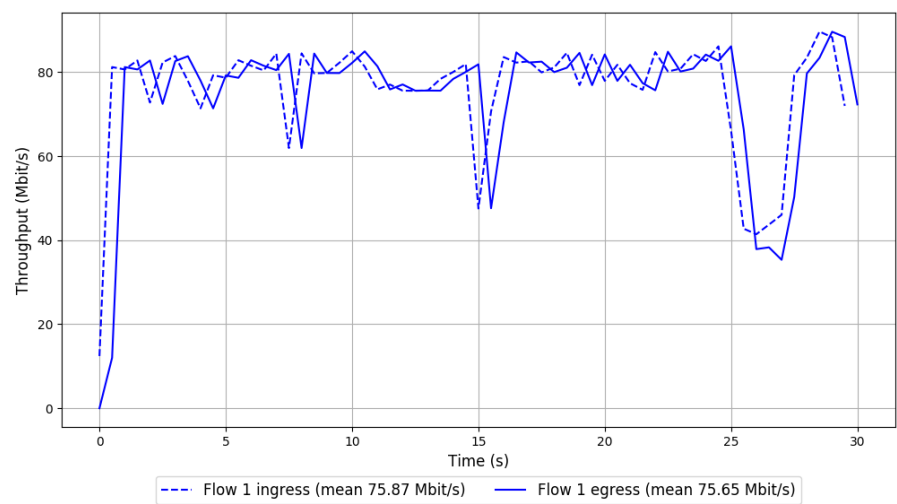
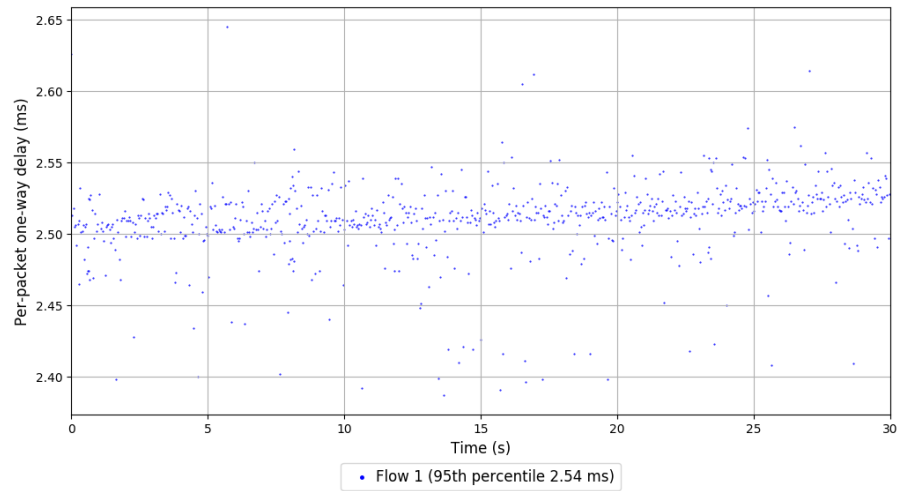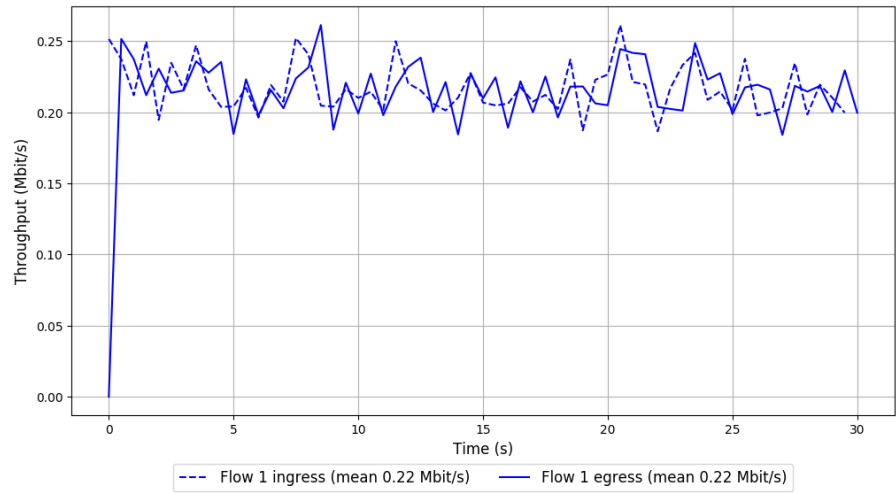Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 77.75 Mbit/s)   Flow 1 egress (mean 77.39 Mbit/s)

Flow 1 (95th percentile 7.27 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-08-01 03:11:26
End at: 2018-08-01 03:11:57
Local clock offset: -4.022 ms
Remote clock offset: -3.069 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 7.040 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 75.65 Mbit/s
95th percentile per-packet one-way delay: 7.040 ms
Loss rate: 0.28%
```

Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 75.87 Mbit/s) — — — — Flow 1 egress (mean 75.65 Mbit/s)
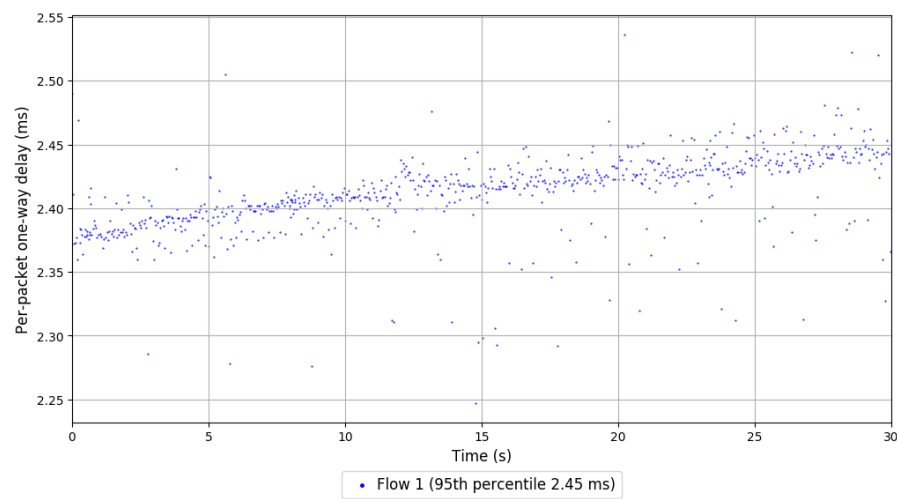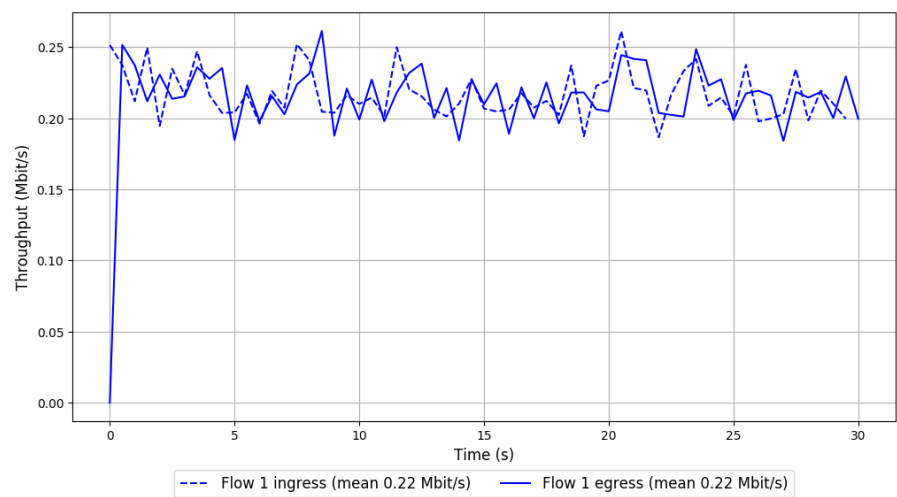

Flow 1 (95th percentile 7.04 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-08-01 00:13:17
End at: 2018-08-01 00:13:47
Local clock offset: 1.511 ms
Remote clock offset: -1.721 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.544 ms
Loss rate: 0.00%
```
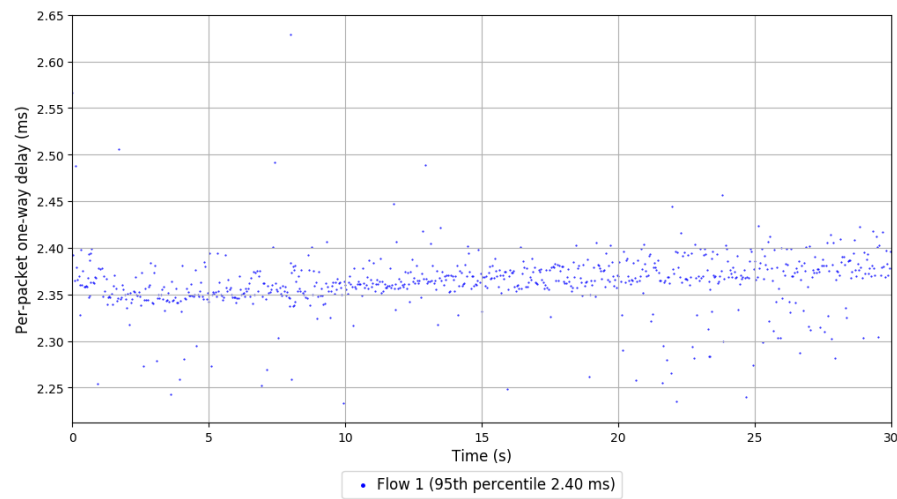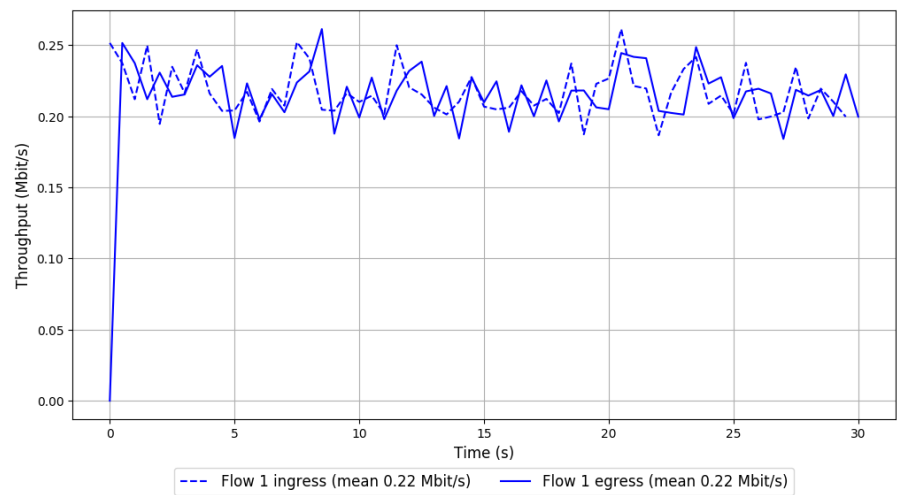
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2018-08-01 00:32:16
End at: 2018-08-01 00:32:46
Local clock offset: 2.849 ms
Remote clock offset: -2.313 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.453 ms
Loss rate: 0.00%
```
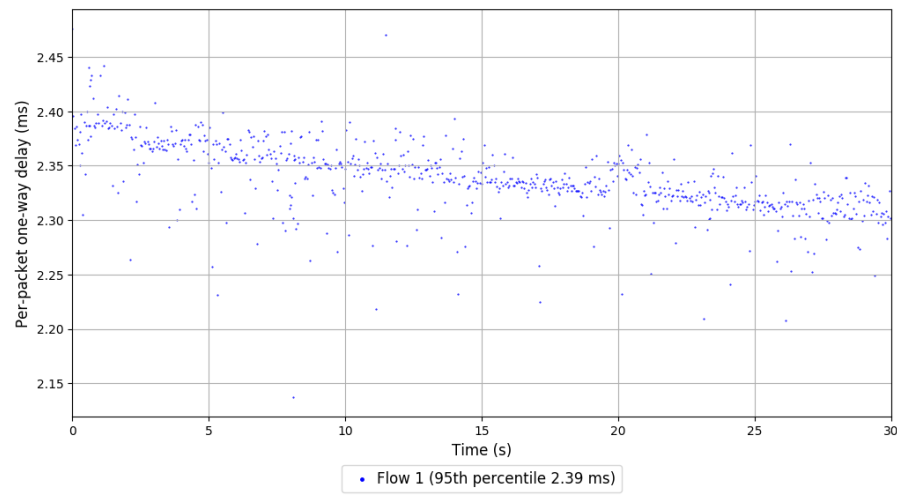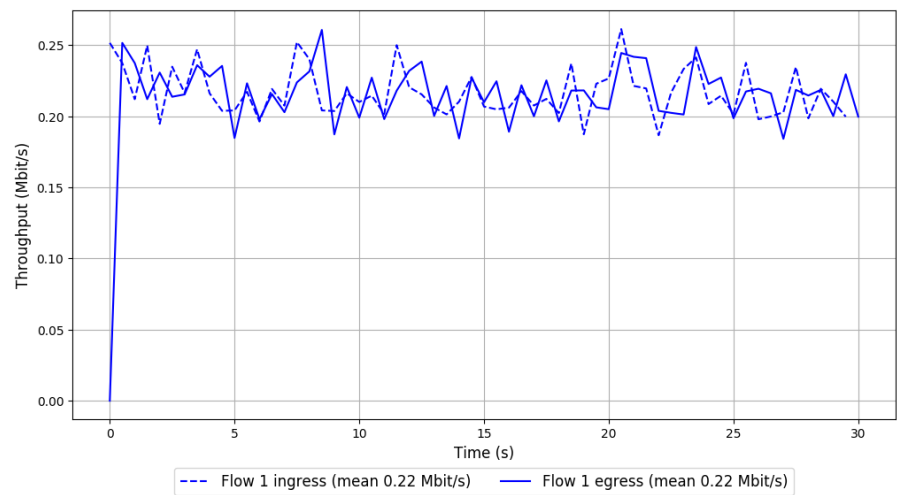
Run 2: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 2.45 ms)

```
Run 3: Statistics of SCReAM

Start at: 2018-08-01 00:51:18
End at: 2018-08-01 00:51:48
Local clock offset: 4.175 ms
Remote clock offset: -2.451 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.401 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.401 ms
Loss rate: 0.00%
```
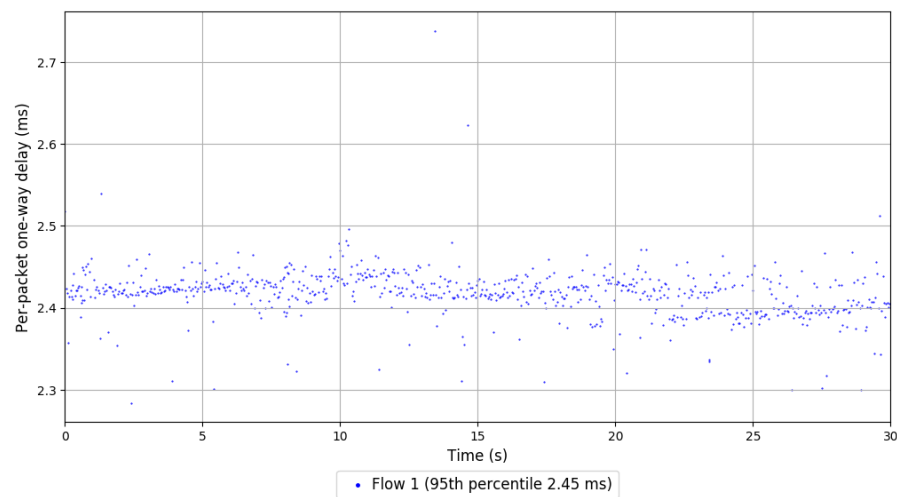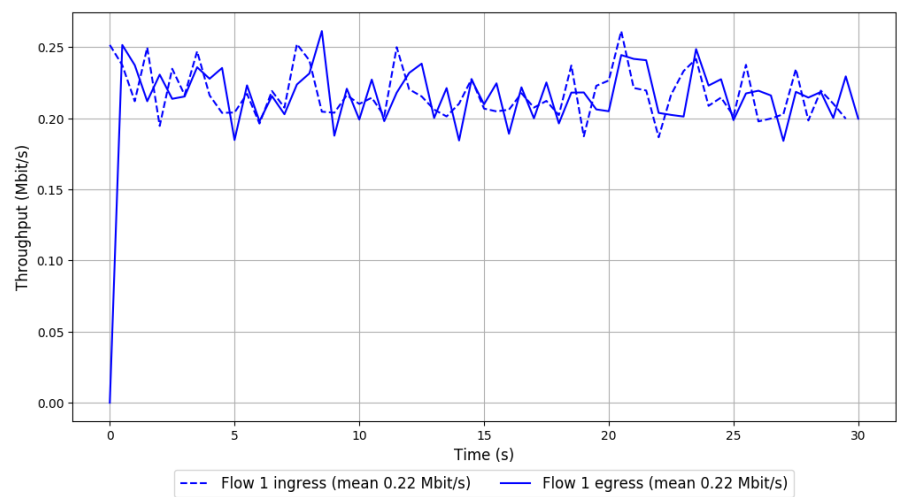
Run 3: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 2.40 ms)

```
Run 4: Statistics of SCReAM

Start at: 2018-08-01 01:10:20
End at: 2018-08-01 01:10:50
Local clock offset: -2.759 ms
Remote clock offset: -2.738 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.388 ms
Loss rate: 0.00%
```
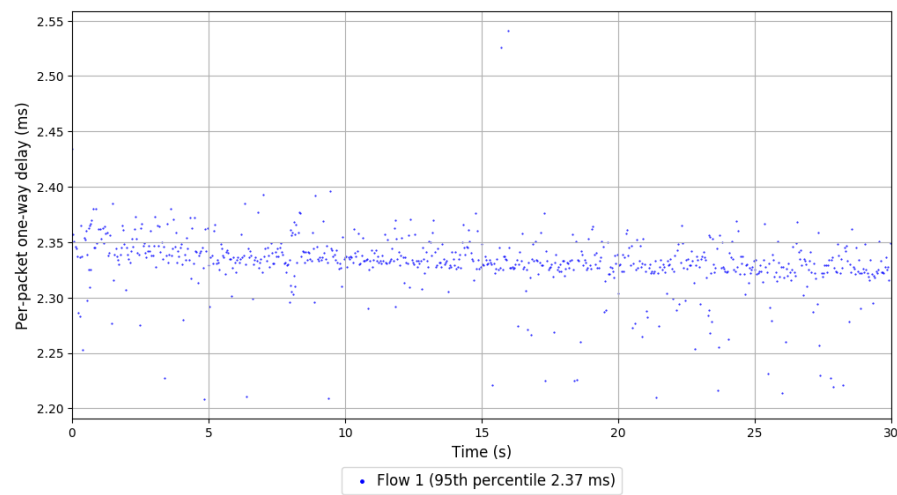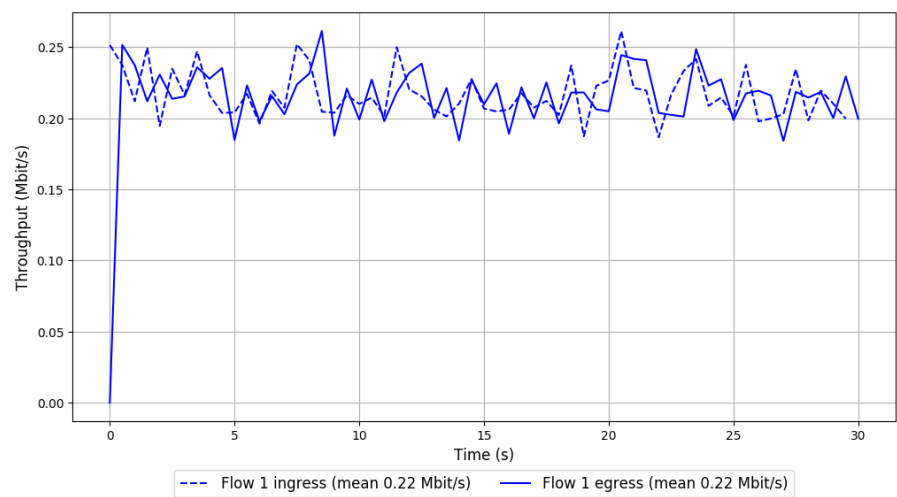
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2018-08-01 01:29:22
End at: 2018-08-01 01:29:52
Local clock offset: -3.773 ms
Remote clock offset: -2.887 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.453 ms
Loss rate: 0.00%
```
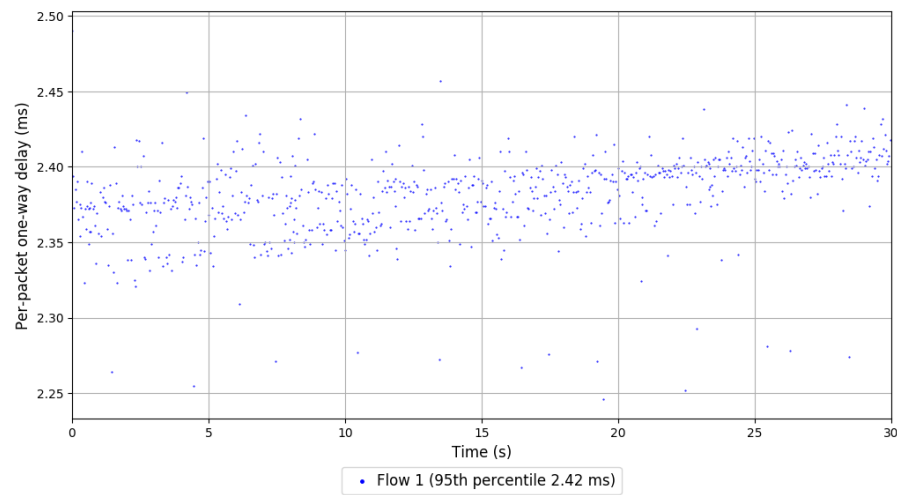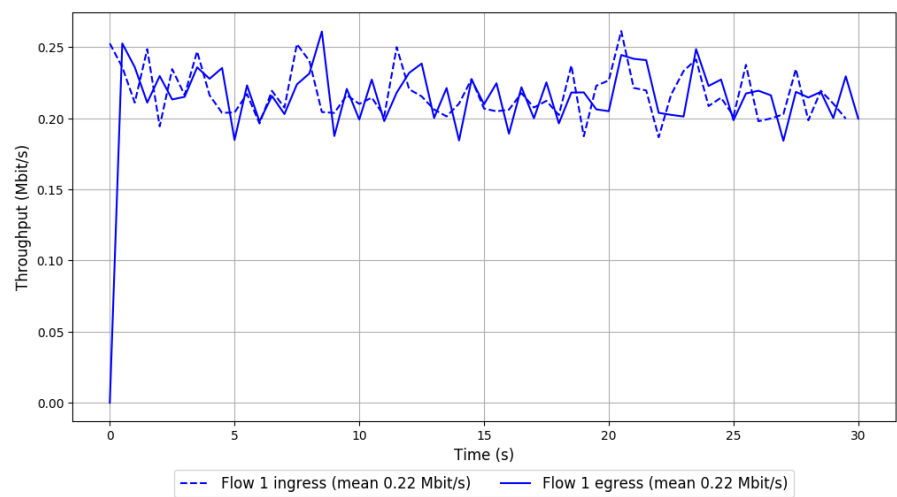
Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2018-08-01 01:48:24
End at: 2018-08-01 01:48:54
Local clock offset: -3.912 ms
Remote clock offset: -2.529 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.365 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.365 ms
Loss rate: 0.00%
```
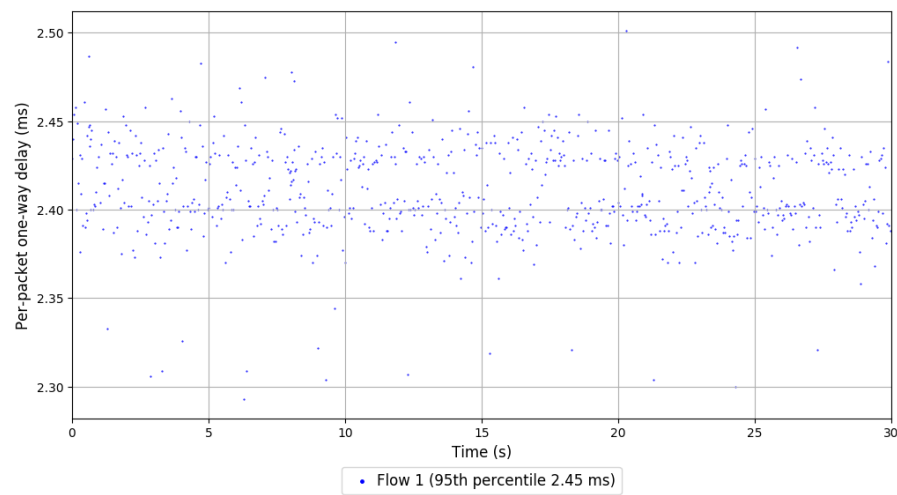
Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: 2018-08-01 02:07:26
End at: 2018-08-01 02:07:56
Local clock offset: -2.304 ms
Remote clock offset: -2.542 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.417 ms
Loss rate: 0.00%
```

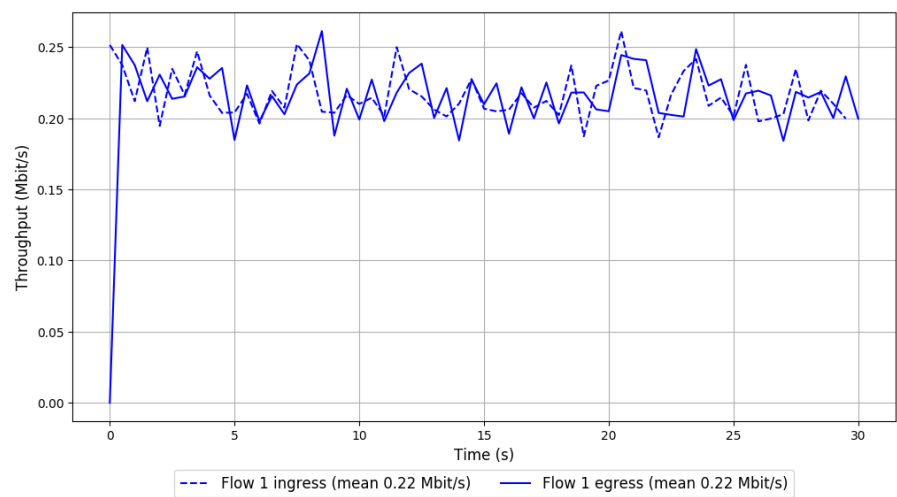# Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: 2018-08-01 02:26:34
End at: 2018-08-01 02:27:04
Local clock offset: -2.097 ms
Remote clock offset: -2.705 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.450 ms
Loss rate: 0.00%
```
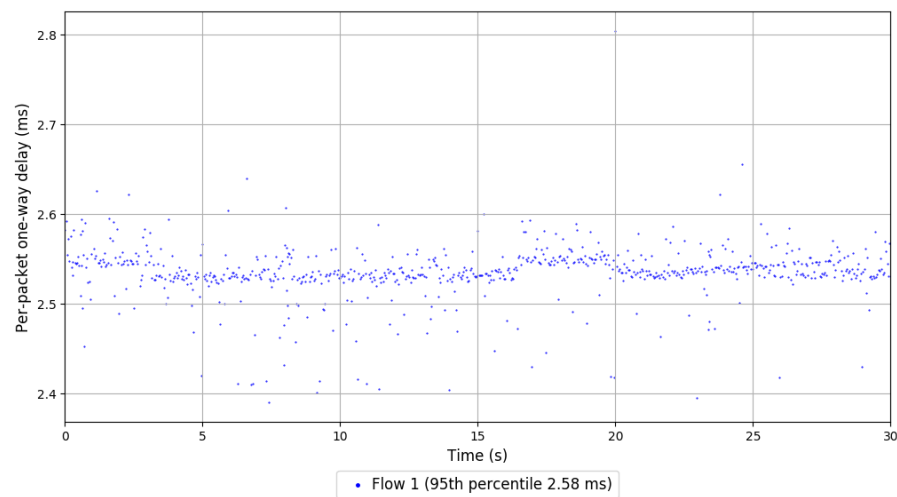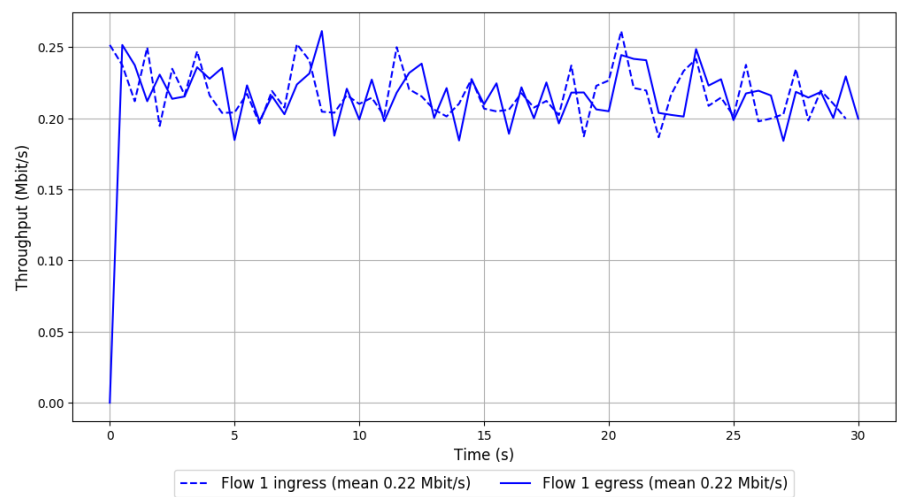
Run 8: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 2.45 ms)

```
Run 9: Statistics of SCReAM

Start at: 2018-08-01 02:45:41
End at: 2018-08-01 02:46:11
Local clock offset: -2.324 ms
Remote clock offset: -2.86 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.577 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.577 ms
Loss rate: 0.00%
```
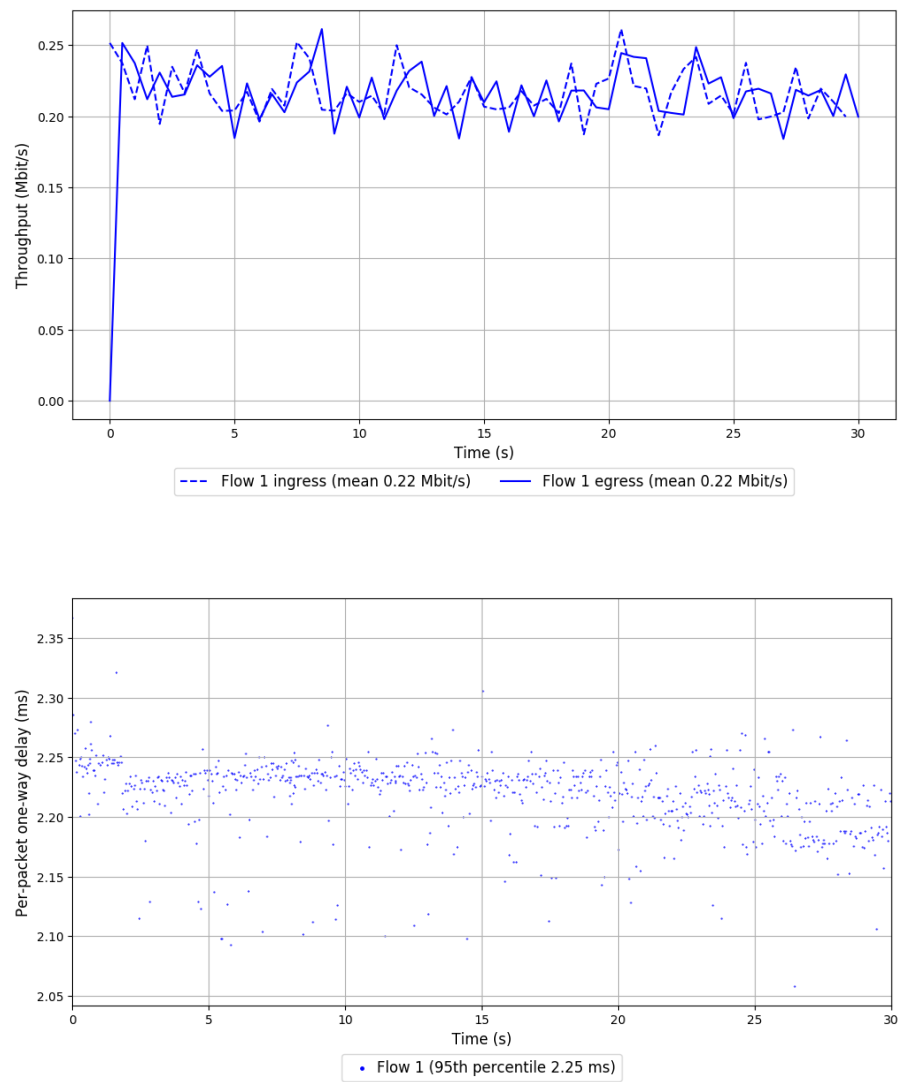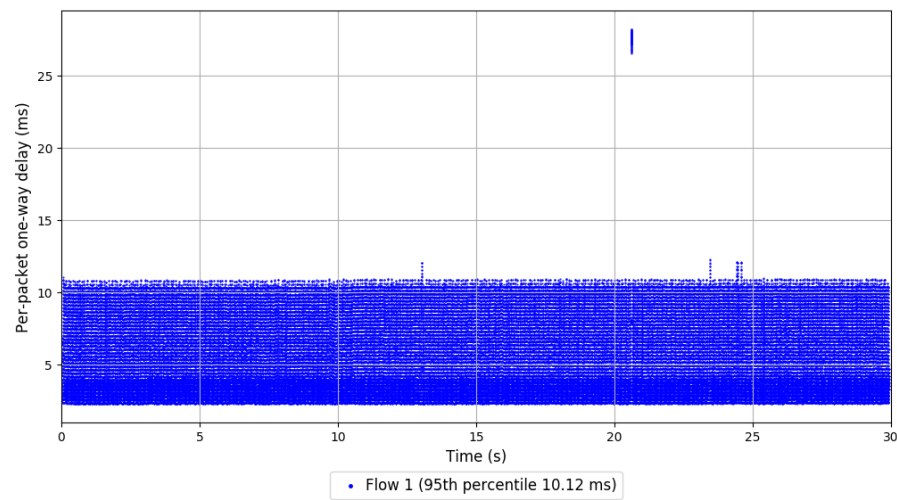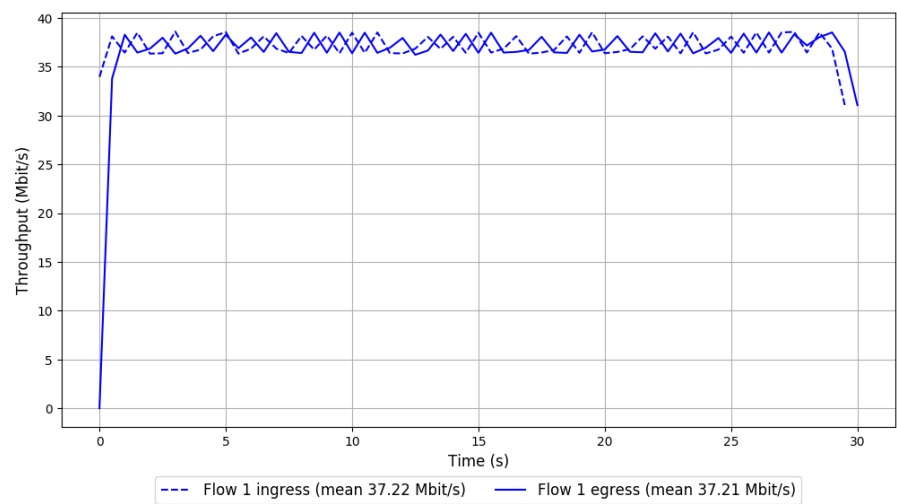
Run 9: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 2.58 ms)

```
Run 10: Statistics of SCReAM

Start at: 2018-08-01 03:04:43
End at: 2018-08-01 03:05:13
Local clock offset: -3.65 ms
Remote clock offset: -3.18 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.254 ms
Loss rate: 0.00%
```
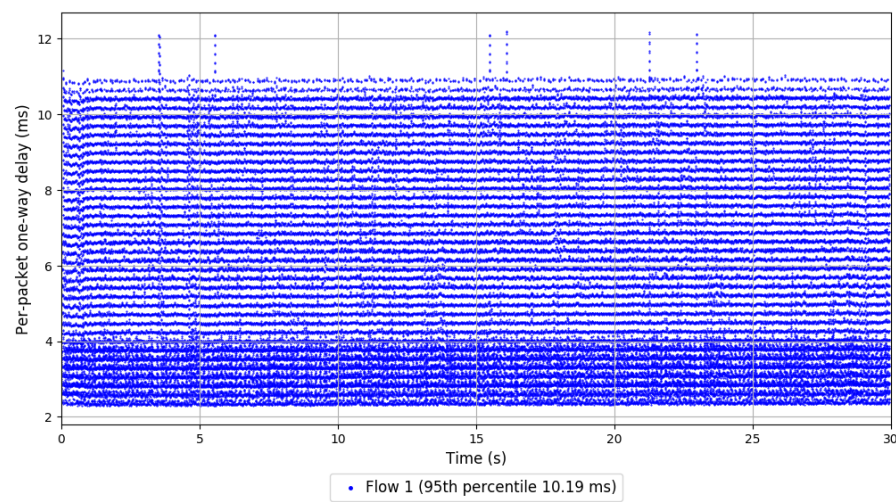
Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2018-08-01 00:17:47
End at: 2018-08-01 00:18:17
Local clock offset: 1.771 ms
Remote clock offset: -1.746 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 10.124 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 10.124 ms
Loss rate: 0.01%
```

Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 37.22 Mbit/s)   Flow 1 egress (mean 37.21 Mbit/s)

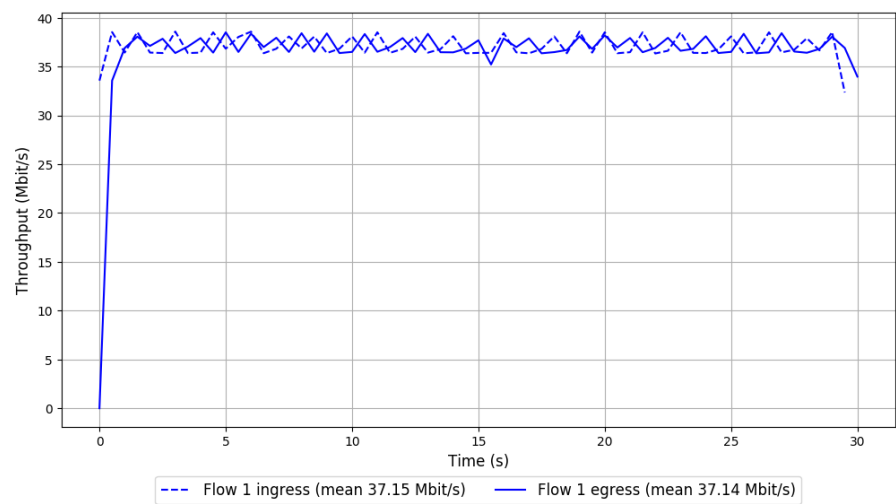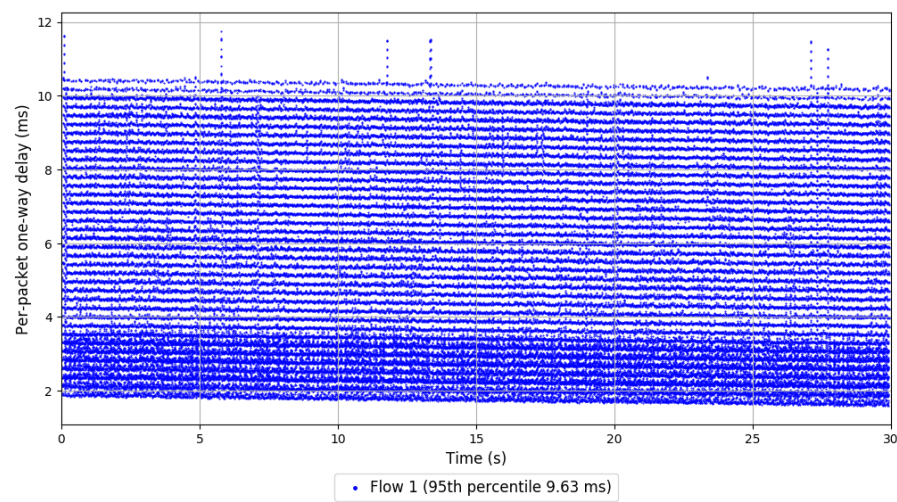Flow 1 (95th percentile 10.12 ms)

```
Run 2: Statistics of Sprout

Start at: 2018-08-01 00:36:46
End at: 2018-08-01 00:37:16
Local clock offset: 3.167 ms
Remote clock offset: -2.326 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 10.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.14 Mbit/s
95th percentile per-packet one-way delay: 10.193 ms
Loss rate: 0.00%
```

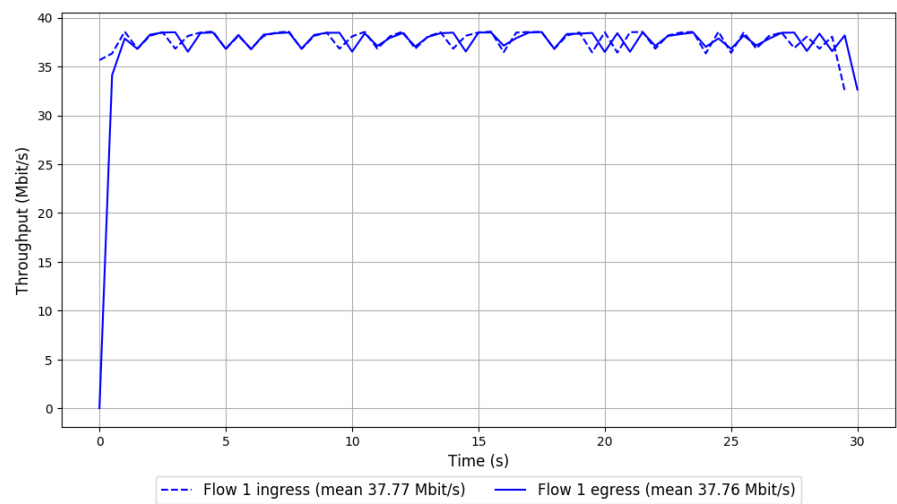# Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-08-01 00:55:48
End at: 2018-08-01 00:56:18
Local clock offset: 2.009 ms
Remote clock offset: -2.446 ms


# Below is generated by plot.py at 2018-08-01 03:32:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 9.629 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.76 Mbit/s
95th percentile per-packet one-way delay: 9.629 ms
Loss rate: 0.00%
```

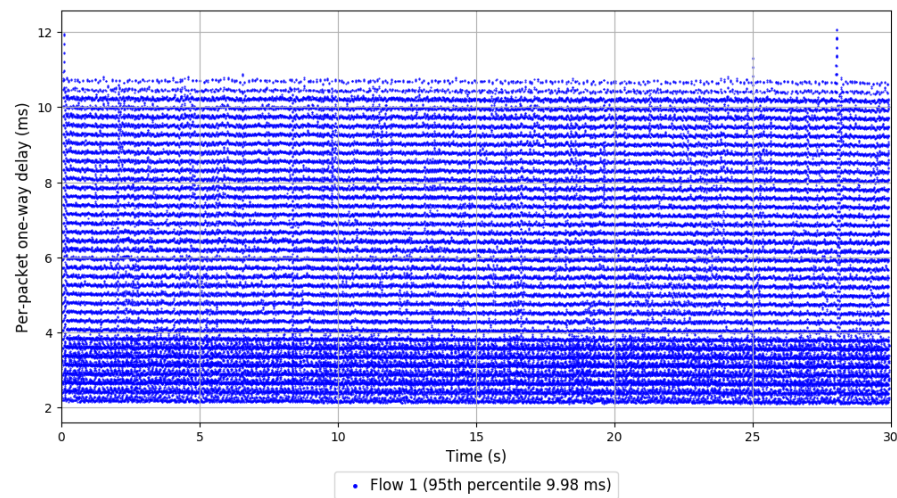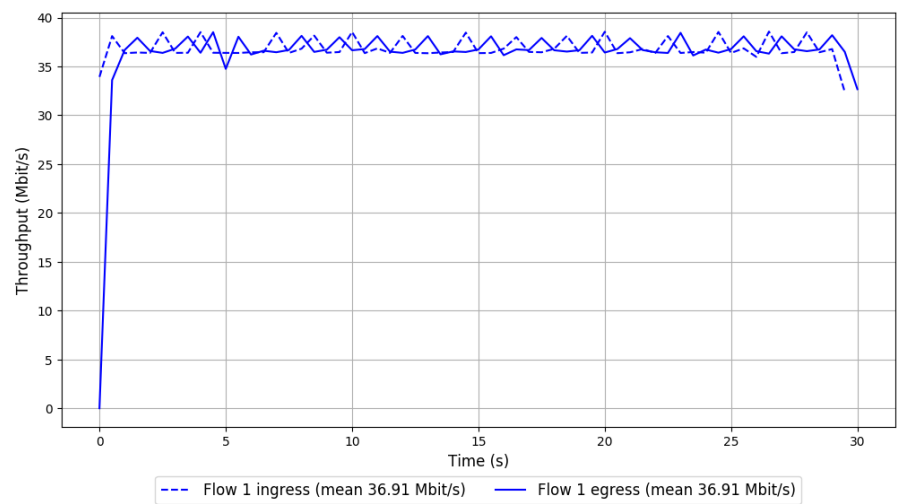# Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2018-08-01 01:14:50
End at: 2018-08-01 01:15:20
Local clock offset: -3.441 ms
Remote clock offset: -2.92 ms


# Below is generated by plot.py at 2018-08-01 03:32:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 9.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 36.91 Mbit/s
95th percentile per-packet one-way delay: 9.981 ms
Loss rate: 0.00%
```

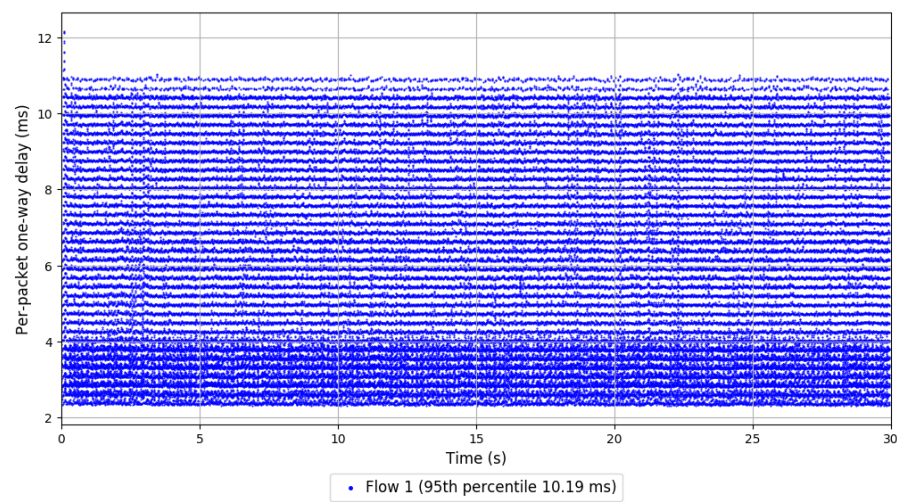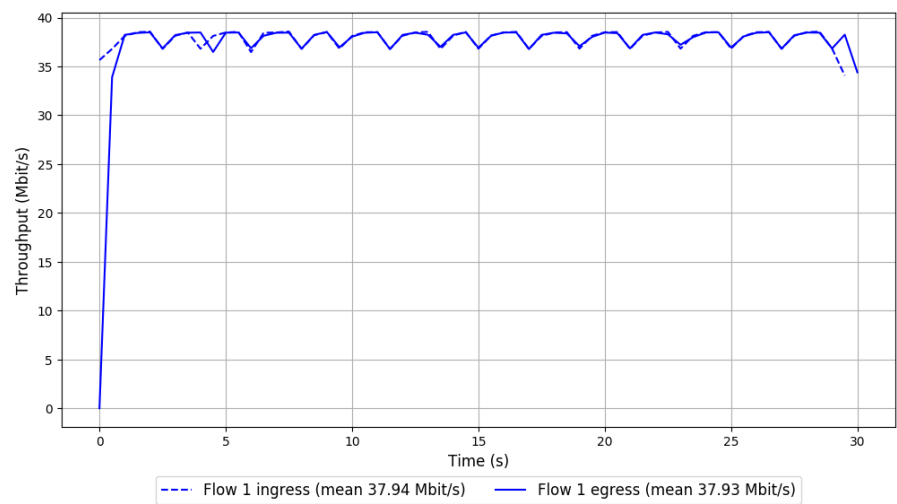## Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-08-01 01:33:53
End at: 2018-08-01 01:34:23
Local clock offset: -3.716 ms
Remote clock offset: -2.694 ms


# Below is generated by plot.py at 2018-08-01 03:32:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 10.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.93 Mbit/s
95th percentile per-packet one-way delay: 10.188 ms
Loss rate: 0.00%
```

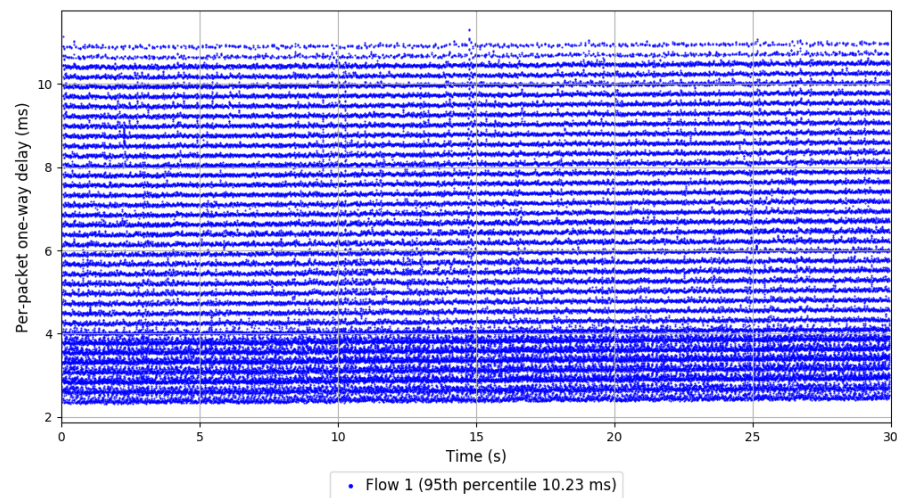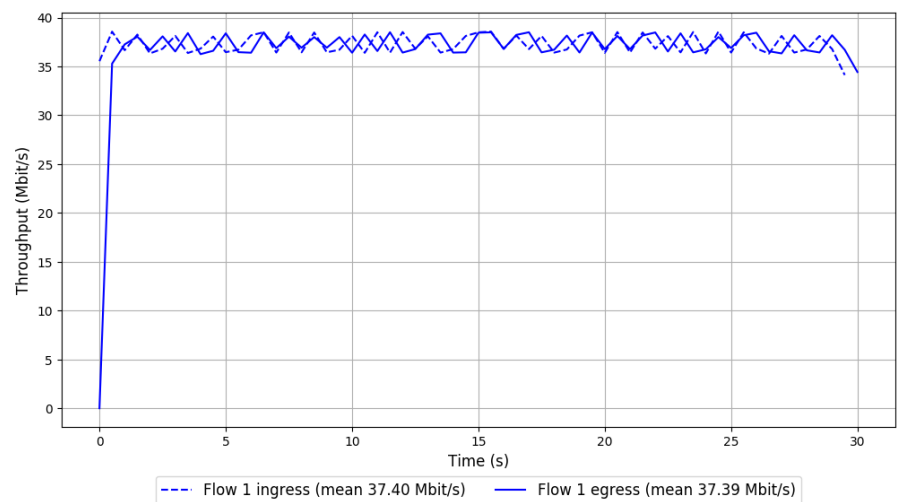## Run 5: Report of Sprout — Data Link

```
Run 6: Statistics of Sprout

Start at: 2018-08-01 01:52:55
End at: 2018-08-01 01:53:25
Local clock offset: -4.001 ms
Remote clock offset: -2.484 ms


# Below is generated by plot.py at 2018-08-01 03:32:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 10.230 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 10.230 ms
Loss rate: 0.00%
```

Run 6: Report of Sprout — Data Link

Flow 1 ingress (mean 37.40 Mbit/s) — Flow 1 egress (mean 37.39 Mbit/s)

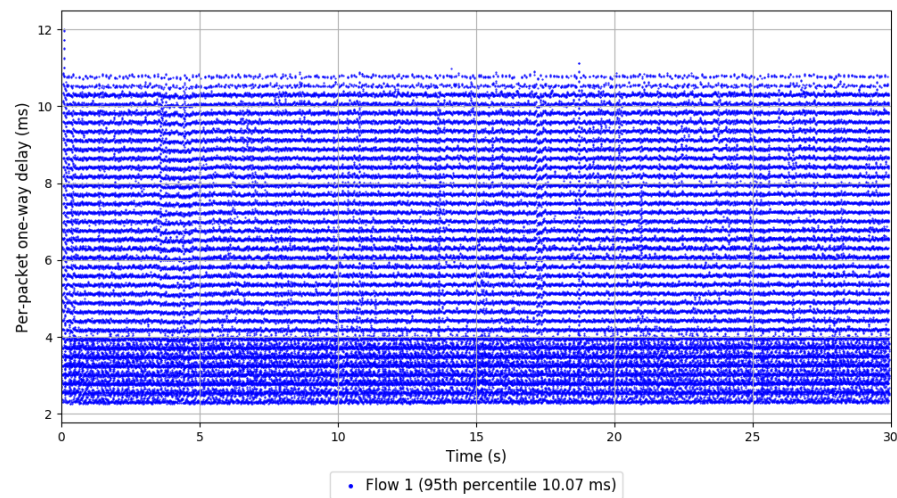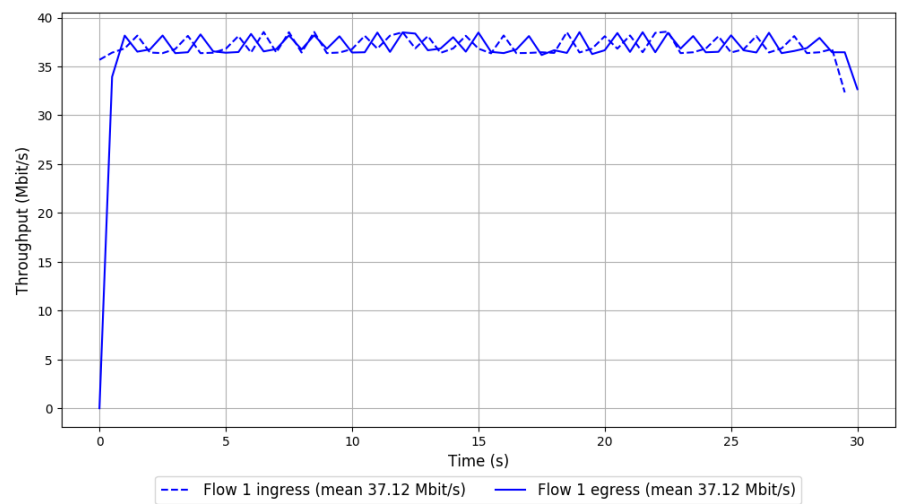• Flow 1 (95th percentile 10.23 ms)

```
Run 7: Statistics of Sprout

Start at: 2018-08-01 02:11:56
End at: 2018-08-01 02:12:26
Local clock offset: -2.234 ms
Remote clock offset: -2.68 ms


# Below is generated by plot.py at 2018-08-01 03:32:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 10.075 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.12 Mbit/s
95th percentile per-packet one-way delay: 10.075 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link

Flow 1 ingress (mean 37.12 Mbit/s) --- Flow 1 egress (mean 37.12 Mbit/s)

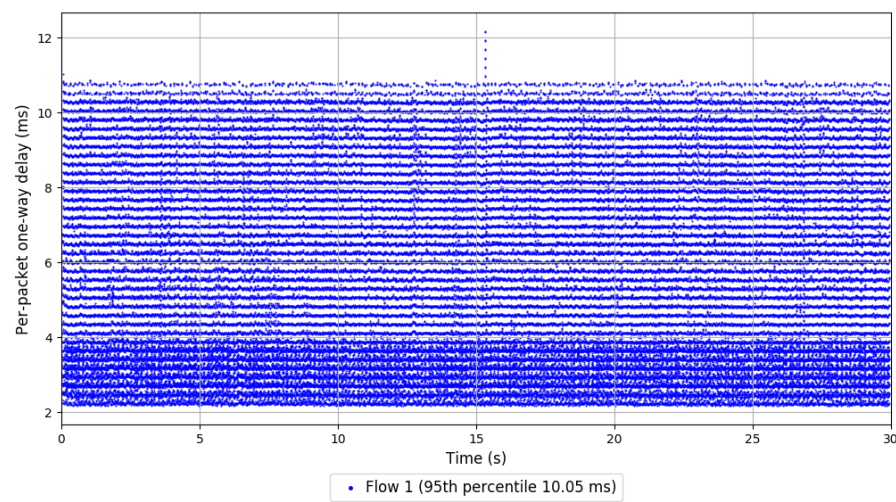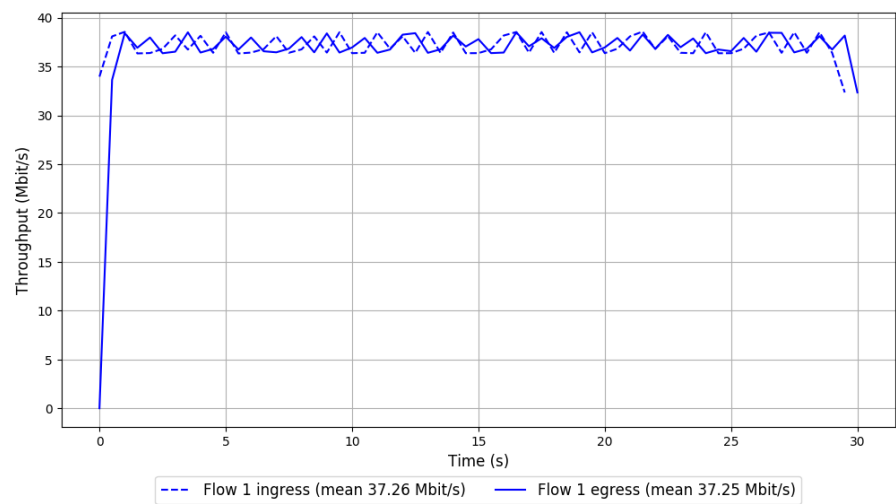• Flow 1 (95th percentile 10.07 ms)

```
Run 8: Statistics of Sprout

Start at: 2018-08-01 02:31:04
End at: 2018-08-01 02:31:34
Local clock offset: -2.183 ms
Remote clock offset: -2.844 ms


# Below is generated by plot.py at 2018-08-01 03:32:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.25 Mbit/s
95th percentile per-packet one-way delay: 10.049 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.25 Mbit/s
95th percentile per-packet one-way delay: 10.049 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 37.26 Mbit/s) --- Flow 1 egress (mean 37.25 Mbit/s)

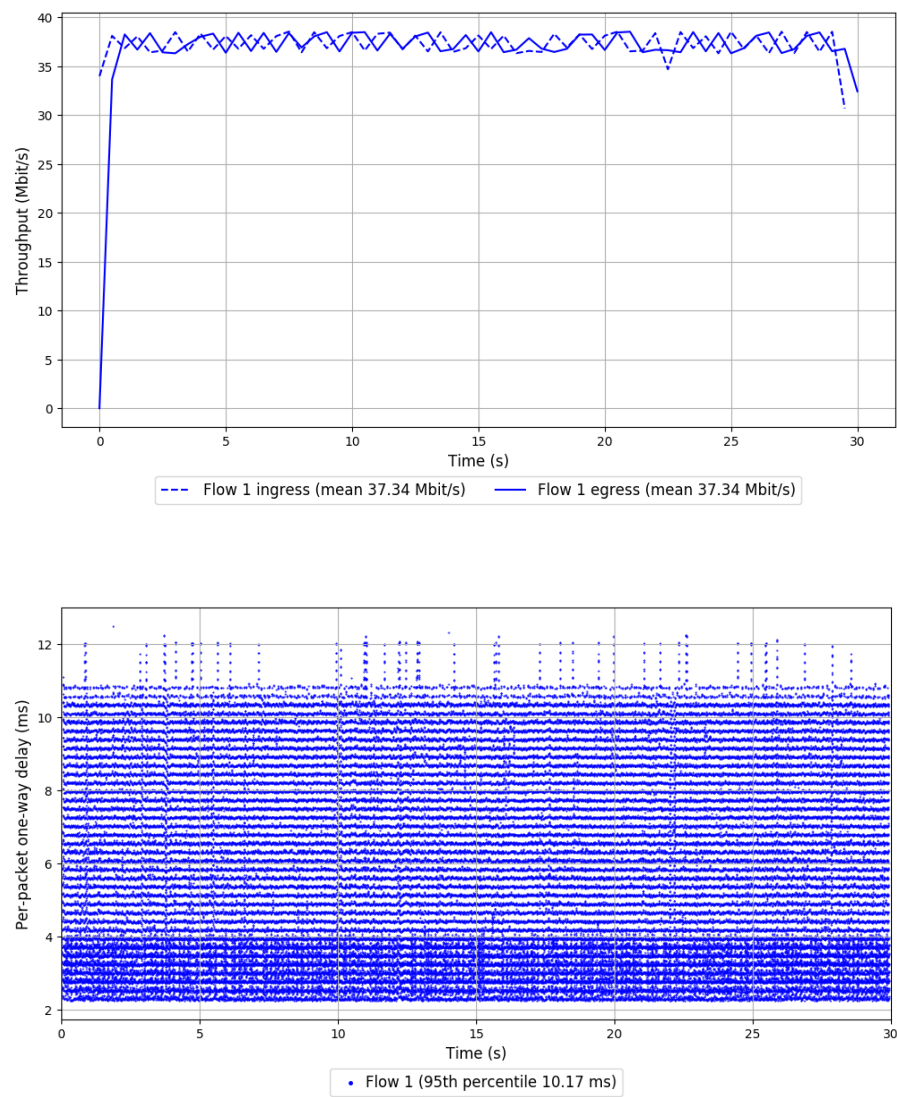Flow 1 (95th percentile 10.05 ms)

```
Run 9: Statistics of Sprout

Start at: 2018-08-01 02:50:11
End at: 2018-08-01 02:50:41
Local clock offset: -2.27 ms
Remote clock offset: -2.953 ms


# Below is generated by plot.py at 2018-08-01 03:32:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 10.167 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.34 Mbit/s
95th percentile per-packet one-way delay: 10.167 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 37.34 Mbit/s) --- Flow 1 egress (mean 37.34 Mbit/s)
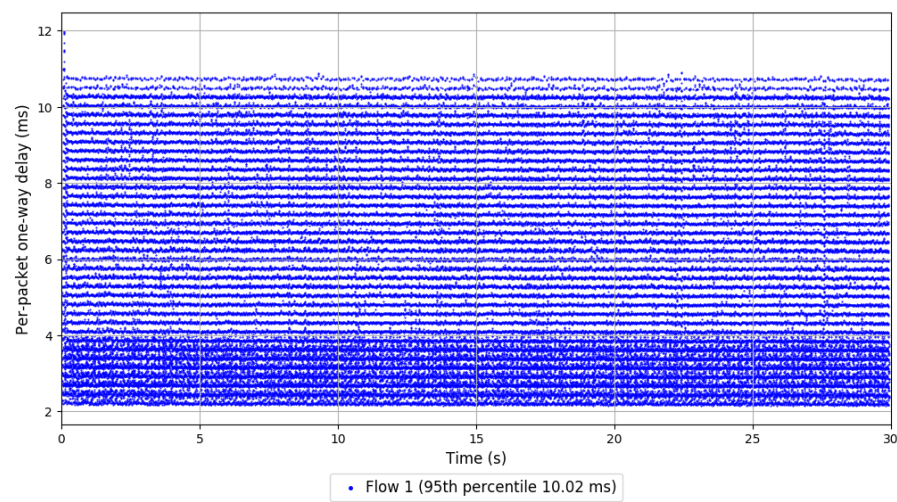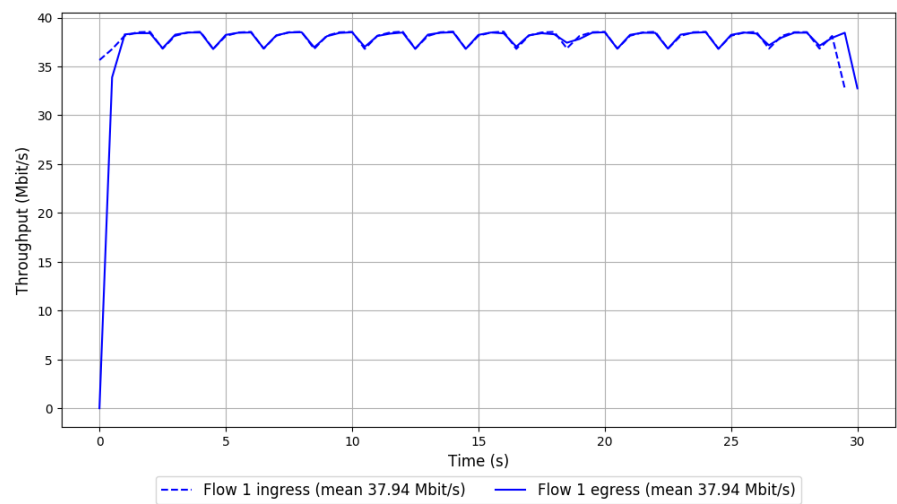

• Flow 1 (95th percentile 10.17 ms)

```
Run 10: Statistics of Sprout

Start at: 2018-08-01 03:09:14
End at: 2018-08-01 03:09:44
Local clock offset: -3.903 ms
Remote clock offset: -3.105 ms


# Below is generated by plot.py at 2018-08-01 03:32:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.94 Mbit/s
95th percentile per-packet one-way delay: 10.022 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 37.94 Mbit/s
95th percentile per-packet one-way delay: 10.022 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

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

Start at: 2018-08-01 00:16:37
End at: 2018-08-01 00:17:07
Local clock offset: 1.762 ms
Remote clock offset: -1.66 ms

# Below is generated by plot.py at 2018-08-01 03:34:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 2.593 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.60 Mbit/s
95th percentile per-packet one-way delay: 2.593 ms
Loss rate: 0.00%
```
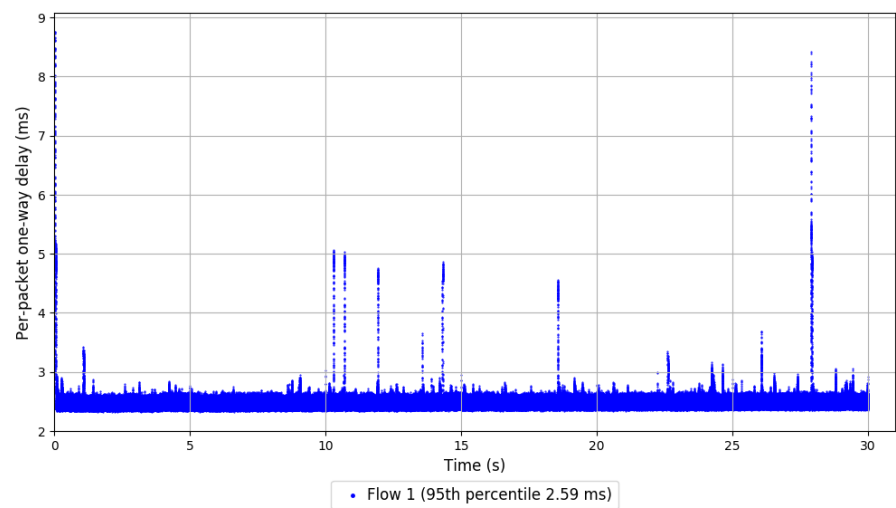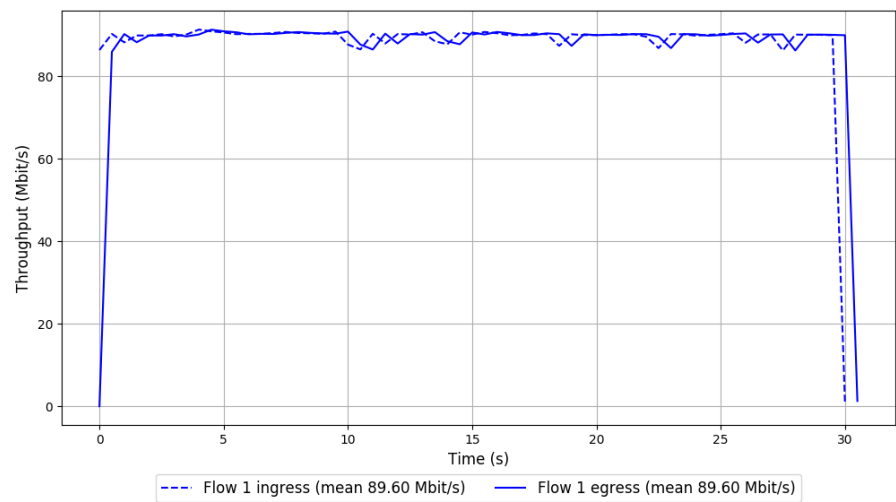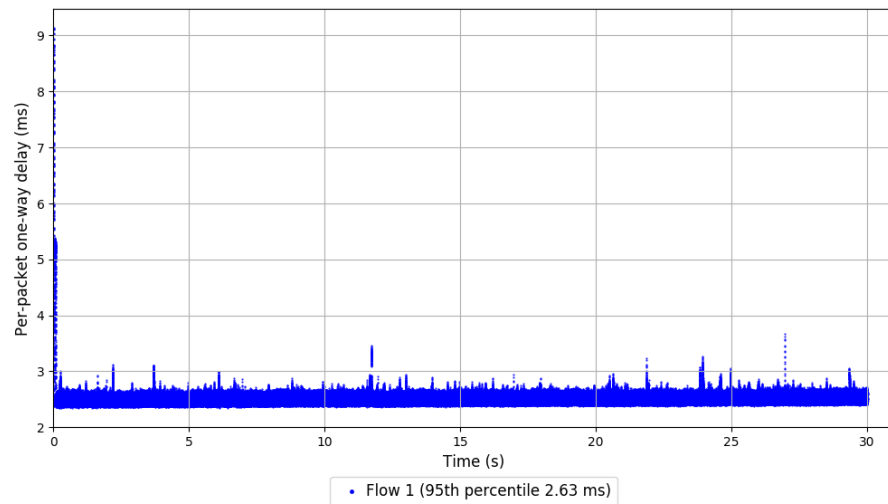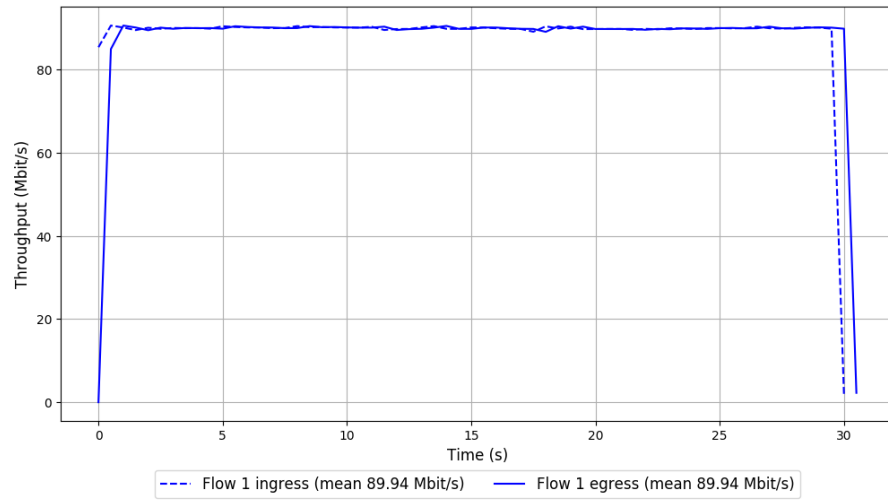
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 89.60 Mbit/s)   Flow 1 egress (mean 89.60 Mbit/s)

• Flow 1 (95th percentile 2.59 ms)

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

Start at: 2018-08-01 00:35:36
End at: 2018-08-01 00:36:06
Local clock offset: 3.004 ms
Remote clock offset: -2.359 ms

# Below is generated by plot.py at 2018-08-01 03:34:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.94 Mbit/s
95th percentile per-packet one-way delay: 2.627 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.94 Mbit/s
95th percentile per-packet one-way delay: 2.627 ms
Loss rate: 0.00%
```
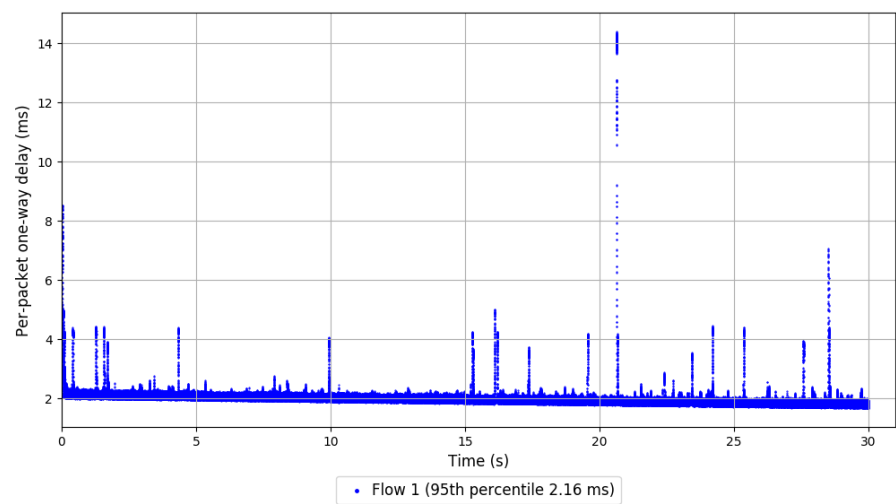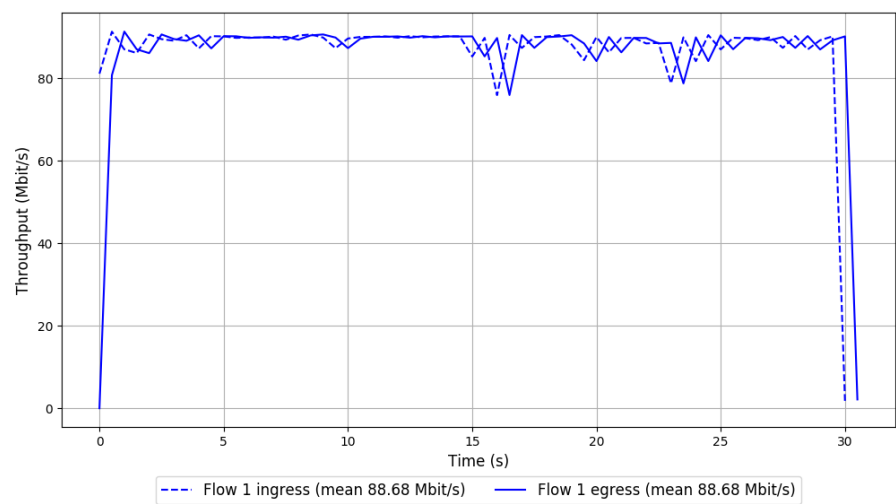
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 89.94 Mbit/s)   Flow 1 egress (mean 89.94 Mbit/s)

Flow 1 (95th percentile 2.63 ms)

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

Start at: 2018-08-01 00:54:38
End at: 2018-08-01 00:55:08
Local clock offset: 2.774 ms
Remote clock offset: -2.305 ms


# Below is generated by plot.py at 2018-08-01 03:34:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.68 Mbit/s
95th percentile per-packet one-way delay: 2.160 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.68 Mbit/s
95th percentile per-packet one-way delay: 2.160 ms
Loss rate: 0.00%
```

Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 88.68 Mbit/s)   Flow 1 egress (mean 88.68 Mbit/s)

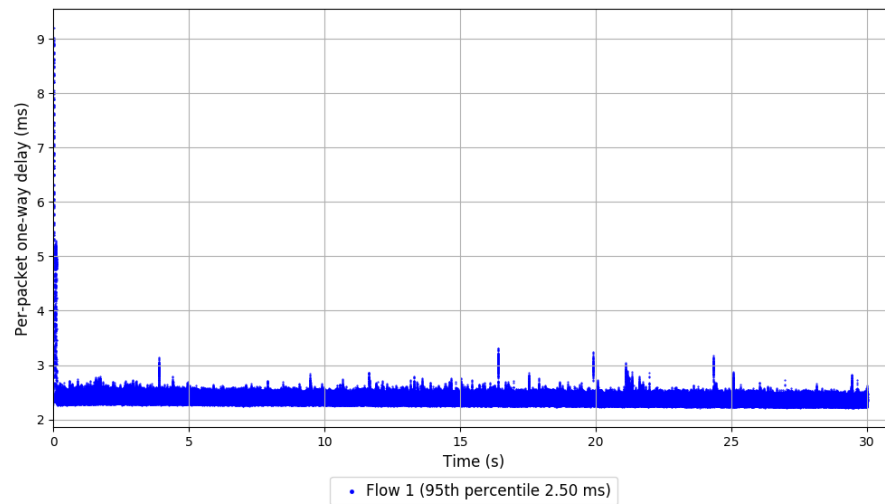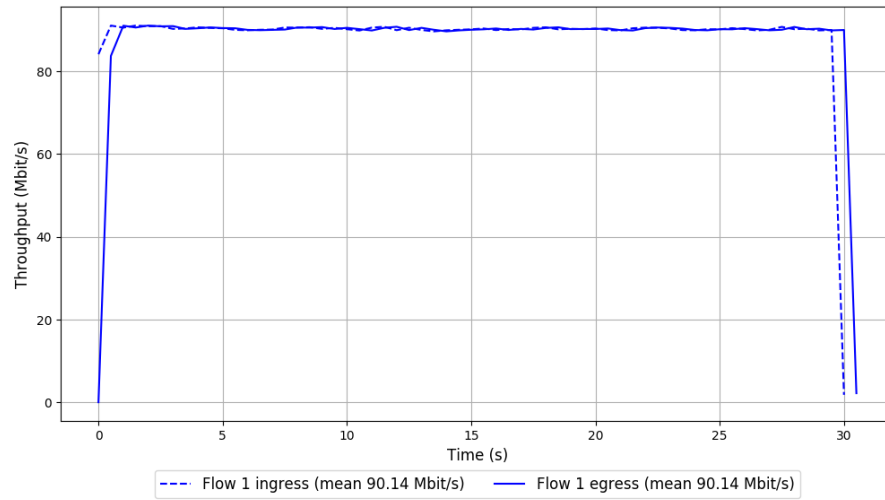
Flow 1 (95th percentile 2.16 ms)

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

Start at: 2018-08-01 01:13:40
End at: 2018-08-01 01:14:10
Local clock offset: -3.254 ms
Remote clock offset: -2.775 ms


# Below is generated by plot.py at 2018-08-01 03:34:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 2.502 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.14 Mbit/s
95th percentile per-packet one-way delay: 2.502 ms
Loss rate: 0.00%
```
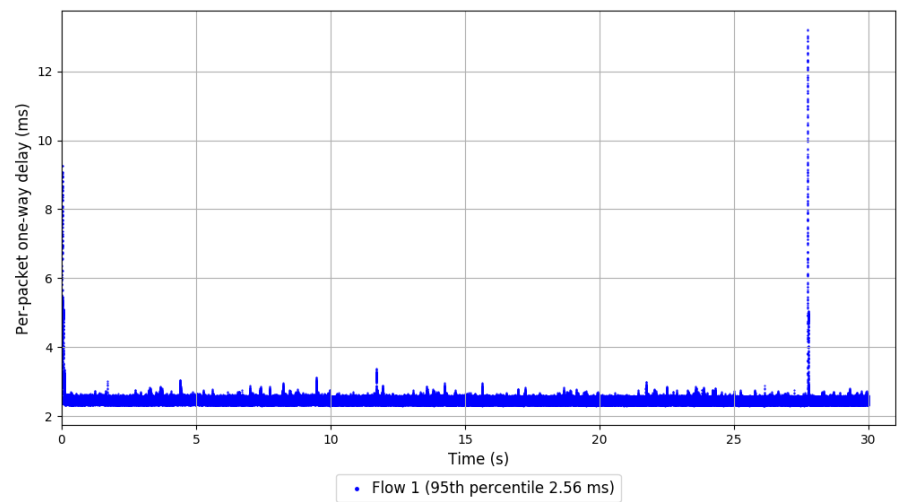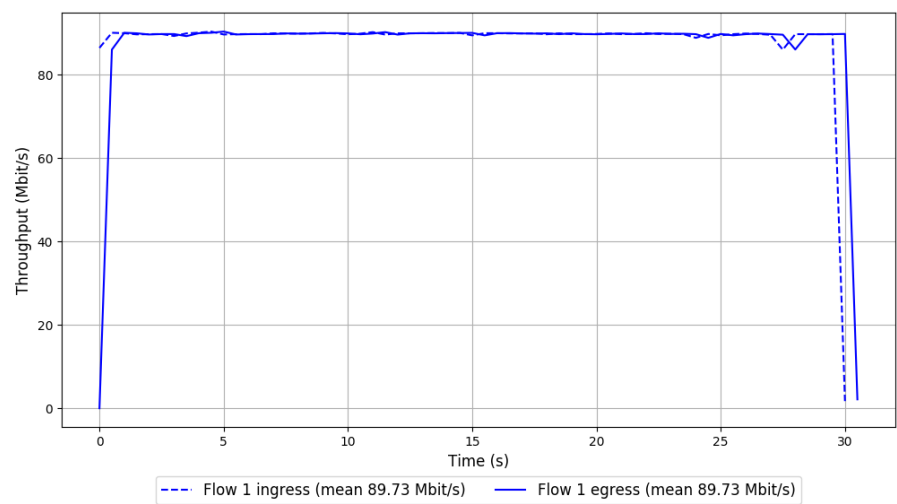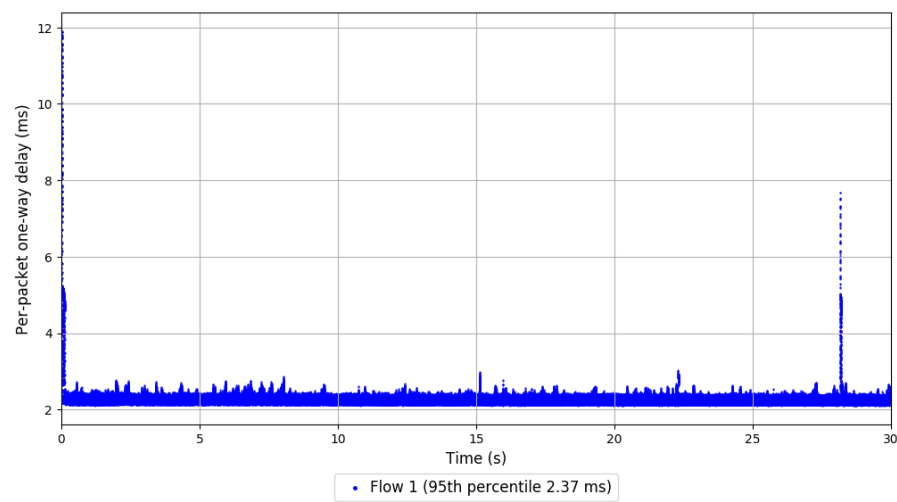
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 90.14 Mbit/s)   Flow 1 egress (mean 90.14 Mbit/s)

Flow 1 (95th percentile 2.50 ms)

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

Start at: 2018-08-01 01:32:43
End at: 2018-08-01 01:33:13
Local clock offset: -3.738 ms
Remote clock offset: -2.773 ms


# Below is generated by plot.py at 2018-08-01 03:34:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.73 Mbit/s
95th percentile per-packet one-way delay: 2.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.73 Mbit/s
95th percentile per-packet one-way delay: 2.559 ms
Loss rate: 0.00%
```

Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 89.73 Mbit/s) — Flow 1 egress (mean 89.73 Mbit/s)

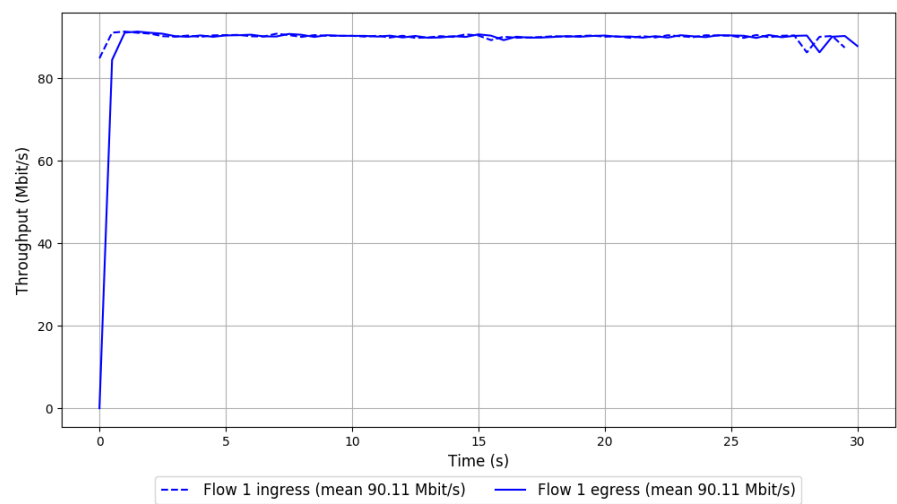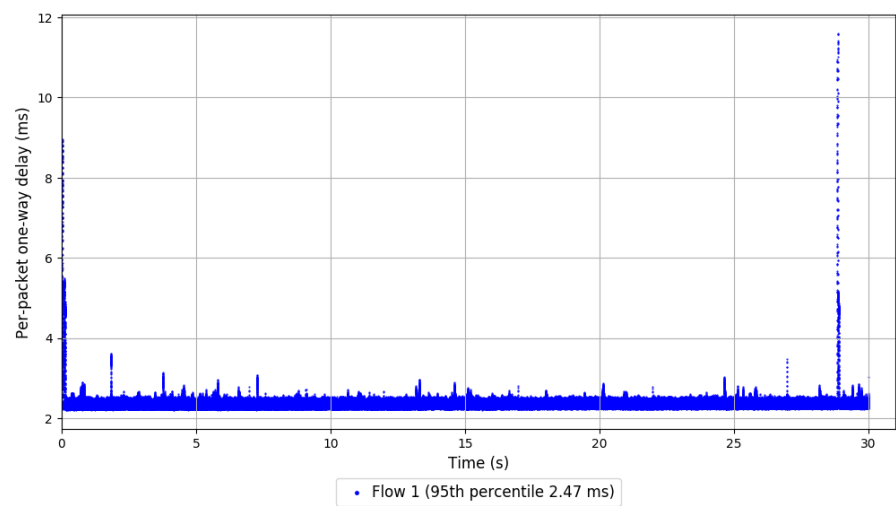
Flow 1 (95th percentile 2.56 ms)

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

Start at: 2018-08-01 01:51:45
End at: 2018-08-01 01:52:15
Local clock offset: -4.003 ms
Remote clock offset: -2.568 ms


# Below is generated by plot.py at 2018-08-01 03:34:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 2.371 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 2.371 ms
Loss rate: 0.00%
```

Run 6: Report of TaoVA-100x — Data Link

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

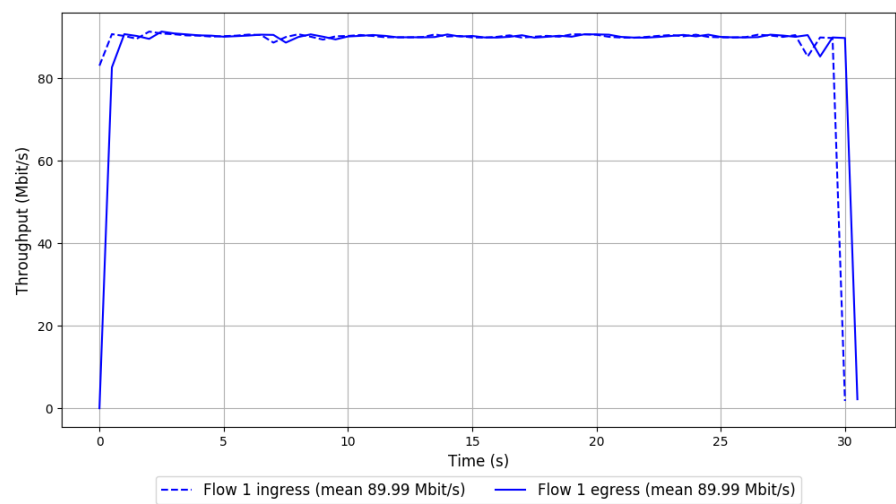

Flow 1 (95th percentile 2.37 ms)

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

Start at: 2018-08-01 02:10:47
End at: 2018-08-01 02:11:17
Local clock offset: -2.248 ms
Remote clock offset: -2.717 ms


# Below is generated by plot.py at 2018-08-01 03:34:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 2.467 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.99 Mbit/s
95th percentile per-packet one-way delay: 2.467 ms
Loss rate: 0.00%
```
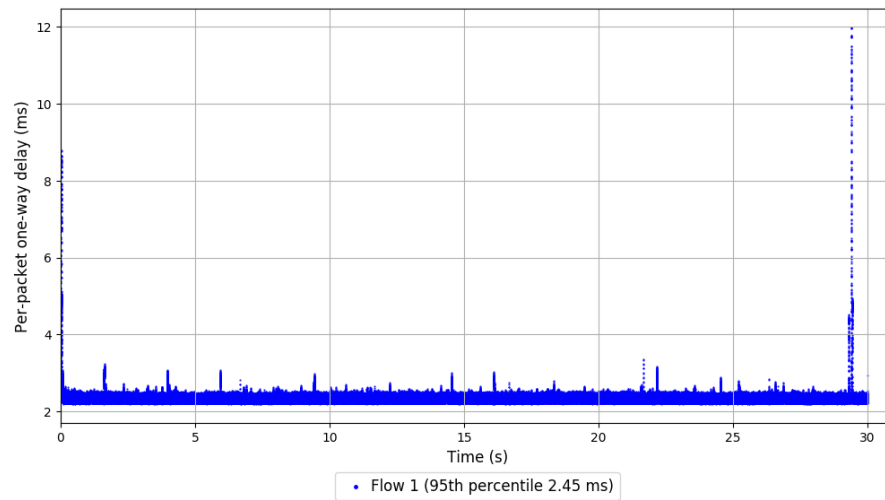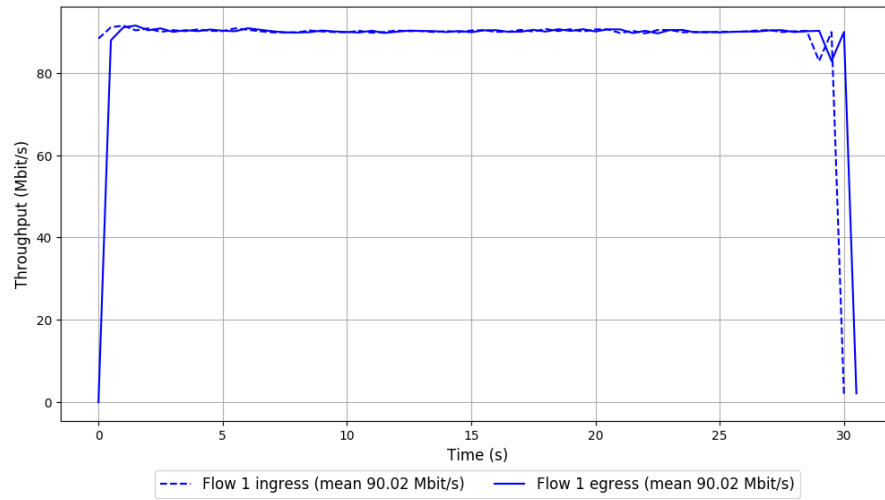
Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 89.99 Mbit/s)   Flow 1 egress (mean 89.99 Mbit/s)
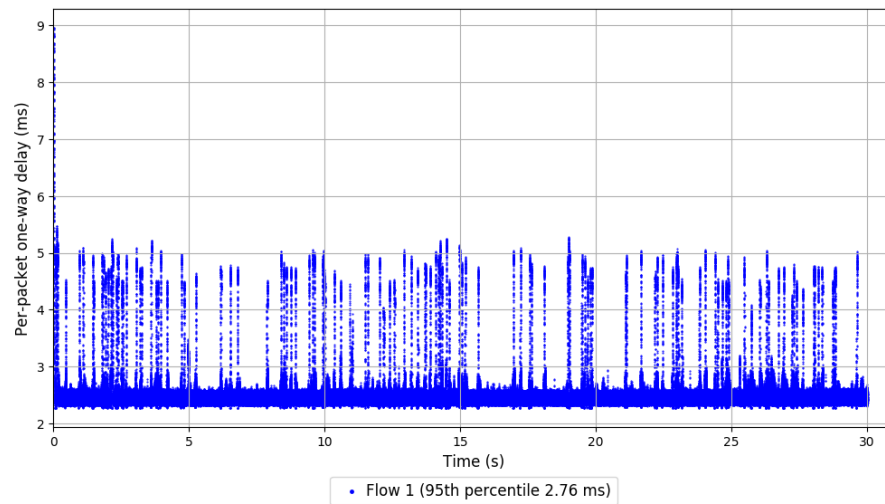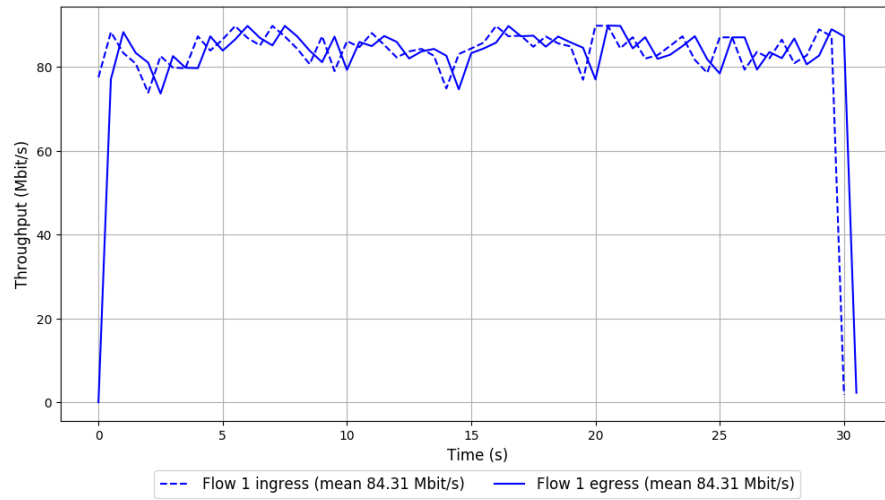

Flow 1 (95th percentile 2.47 ms)

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

Start at: 2018-08-01 02:29:54
End at: 2018-08-01 02:30:24
Local clock offset: -2.127 ms
Remote clock offset: -2.793 ms


# Below is generated by plot.py at 2018-08-01 03:34:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 2.452 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 2.452 ms
Loss rate: 0.00%
```

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

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

Start at: 2018-08-01 02:49:01
End at: 2018-08-01 02:49:31
Local clock offset: -2.265 ms
Remote clock offset: -2.913 ms


# Below is generated by plot.py at 2018-08-01 03:36:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 2.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.31 Mbit/s
95th percentile per-packet one-way delay: 2.760 ms
Loss rate: 0.00%
```
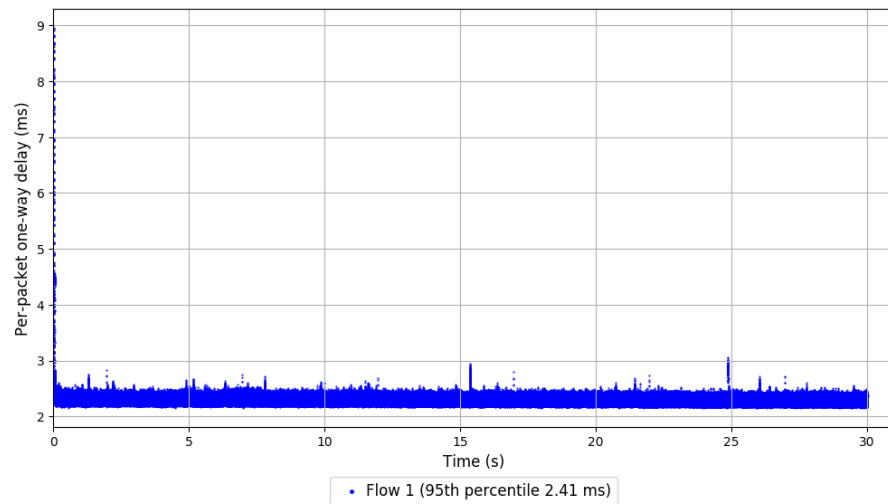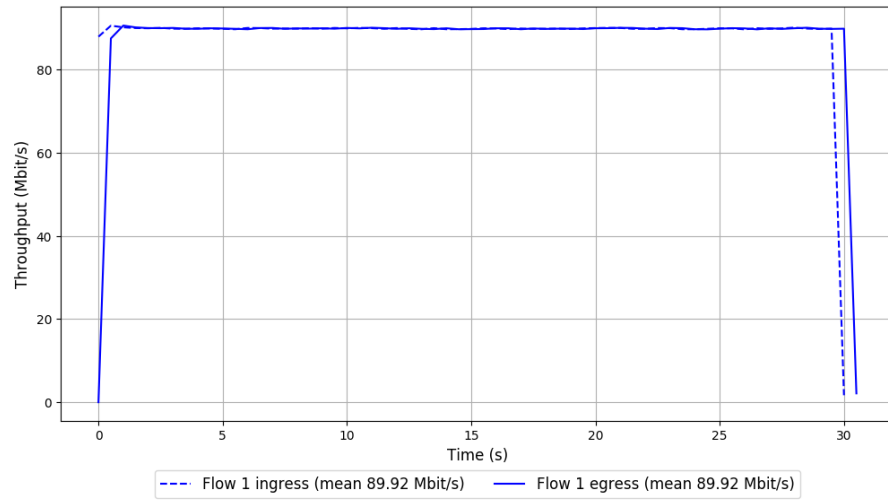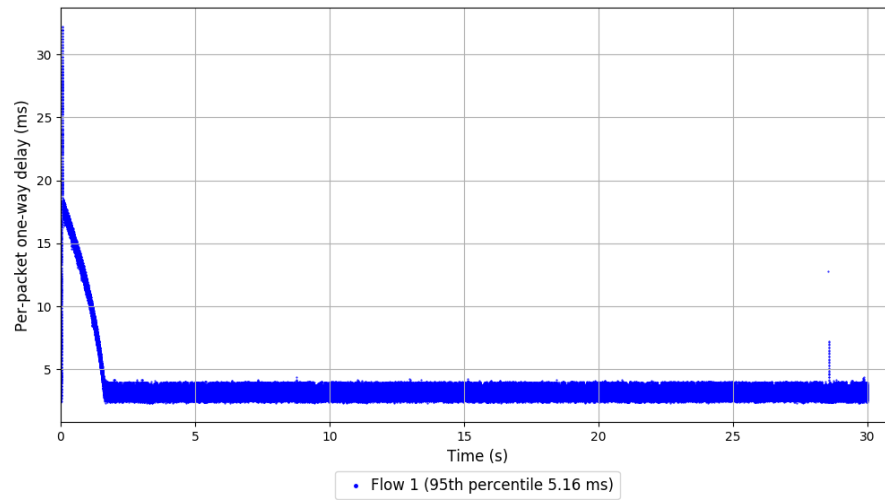
Run 9: Report of TaoVA-100x — Data Link

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

Flow 1 (95th percentile 2.76 ms)

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

Start at: 2018-08-01 03:08:04
End at: 2018-08-01 03:08:34
Local clock offset: -3.848 ms
Remote clock offset: -3.128 ms


# Below is generated by plot.py at 2018-08-01 03:36:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.92 Mbit/s
95th percentile per-packet one-way delay: 2.410 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.92 Mbit/s
95th percentile per-packet one-way delay: 2.410 ms
Loss rate: 0.00%
```

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

Flow 1 ingress (mean 89.92 Mbit/s) ---- Flow 1 egress (mean 89.92 Mbit/s)
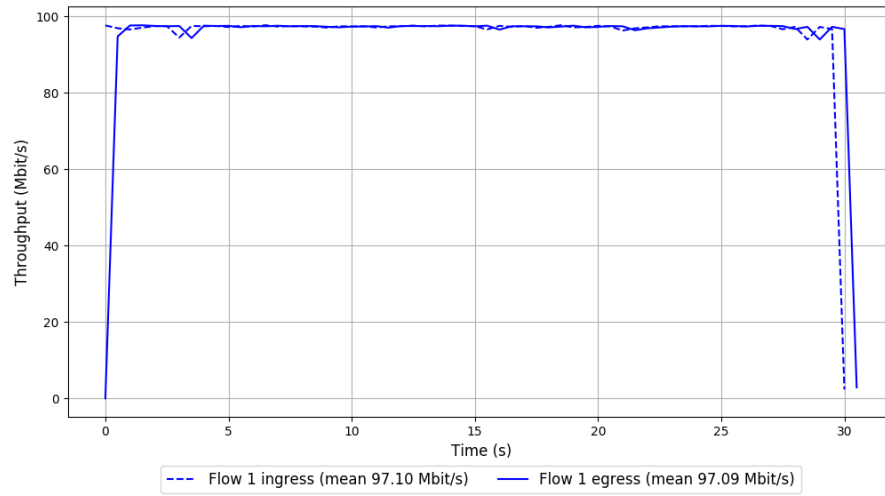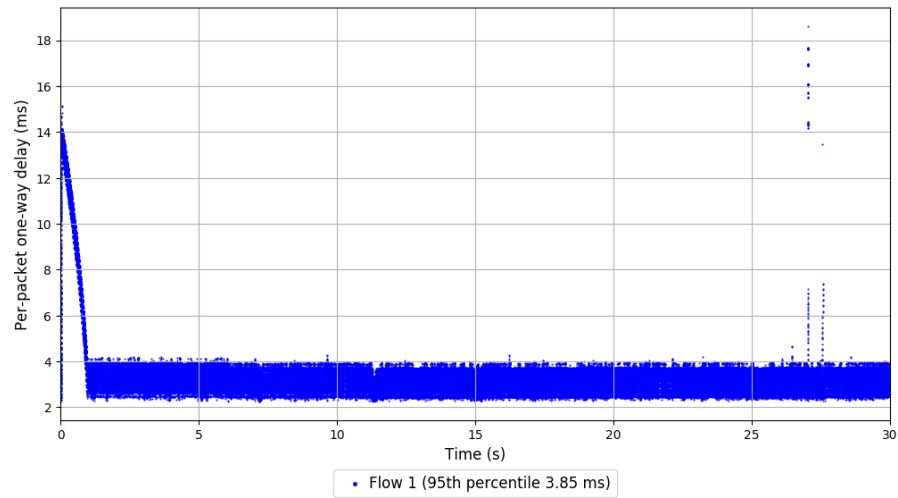

Flow 1 (95th percentile 2.41 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2018-08-01 00:15:30
End at: 2018-08-01 00:16:00
Local clock offset: 1.66 ms
Remote clock offset: -1.764 ms


# Below is generated by plot.py at 2018-08-01 03:36:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 5.155 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.09 Mbit/s
95th percentile per-packet one-way delay: 5.155 ms
Loss rate: 0.00%
```

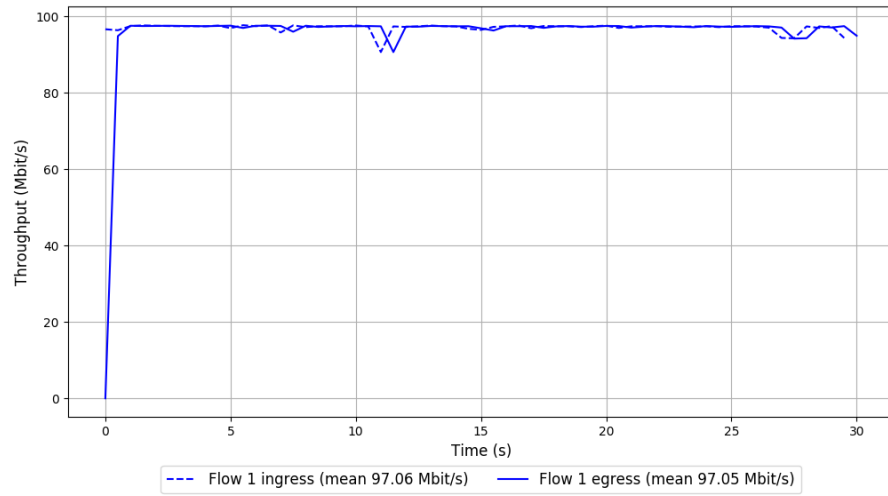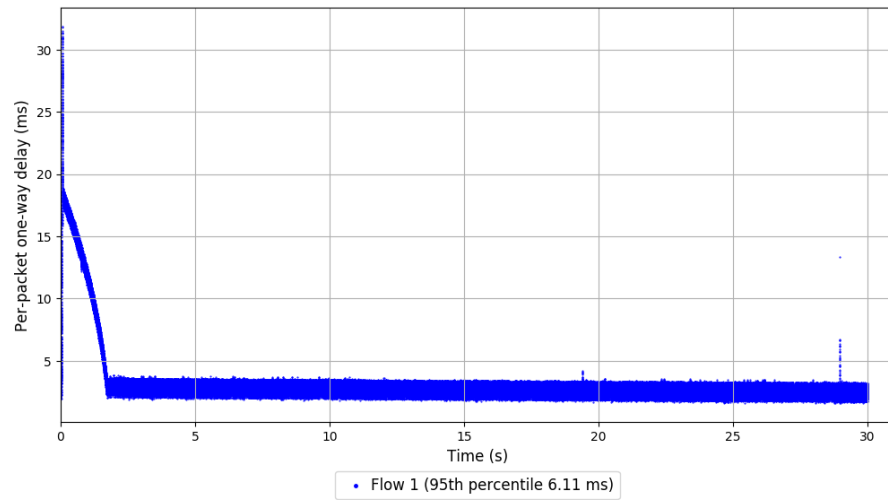Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2018-08-01 00:34:29
End at: 2018-08-01 00:34:59
Local clock offset: 3.002 ms
Remote clock offset: -2.385 ms


# Below is generated by plot.py at 2018-08-01 03:36:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 3.855 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.05 Mbit/s
95th percentile per-packet one-way delay: 3.855 ms
Loss rate: 0.00%
```

Run 2: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 97.06 Mbit/s) --- Flow 1 egress (mean 97.05 Mbit/s)

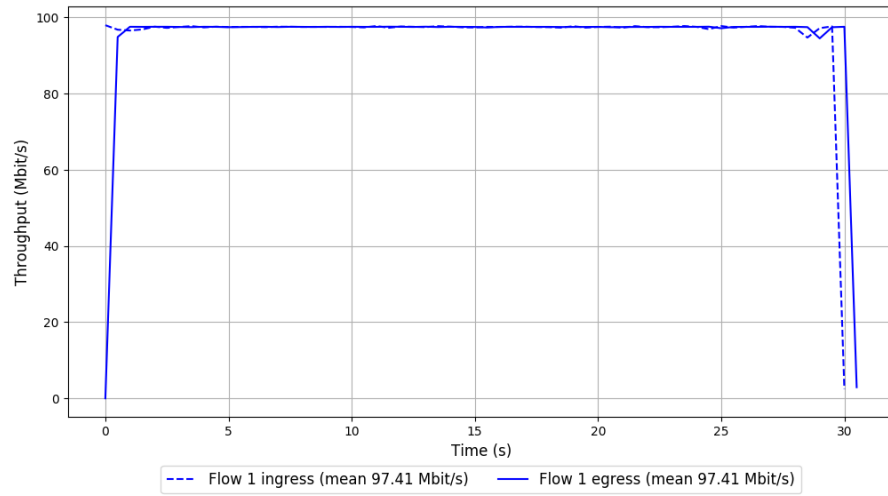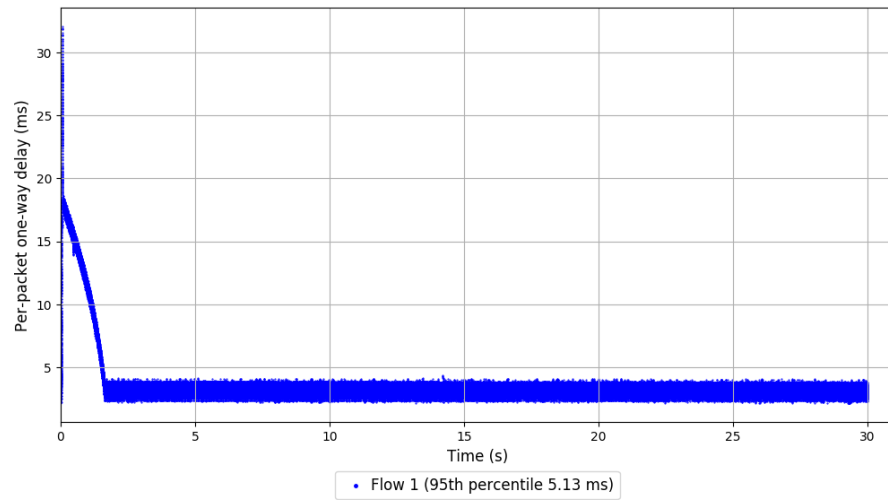Flow 1 (95th percentile 3.85 ms)

267

```
Run 3: Statistics of TCP Vegas

Start at: 2018-08-01 00:53:31
End at: 2018-08-01 00:54:01
Local clock offset: 3.615 ms
Remote clock offset: -2.335 ms


# Below is generated by plot.py at 2018-08-01 03:36:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 6.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.41 Mbit/s
95th percentile per-packet one-way delay: 6.106 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 97.41 Mbit/s)   Flow 1 egress (mean 97.41 Mbit/s)

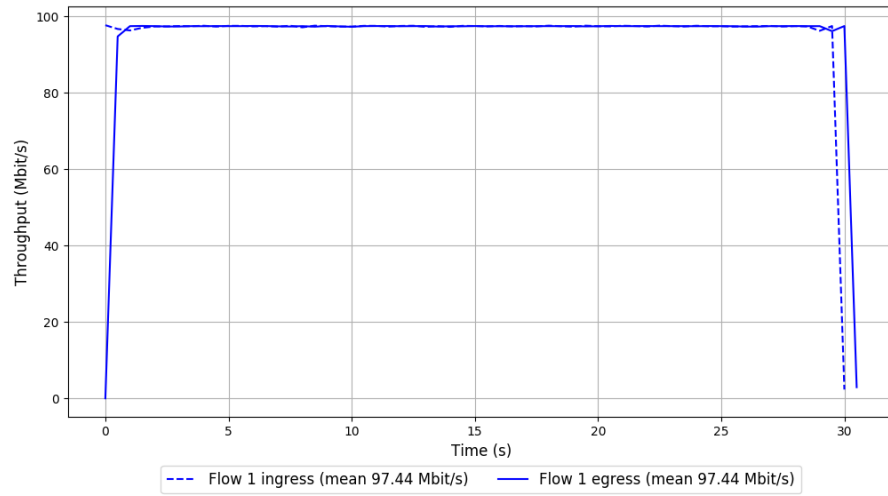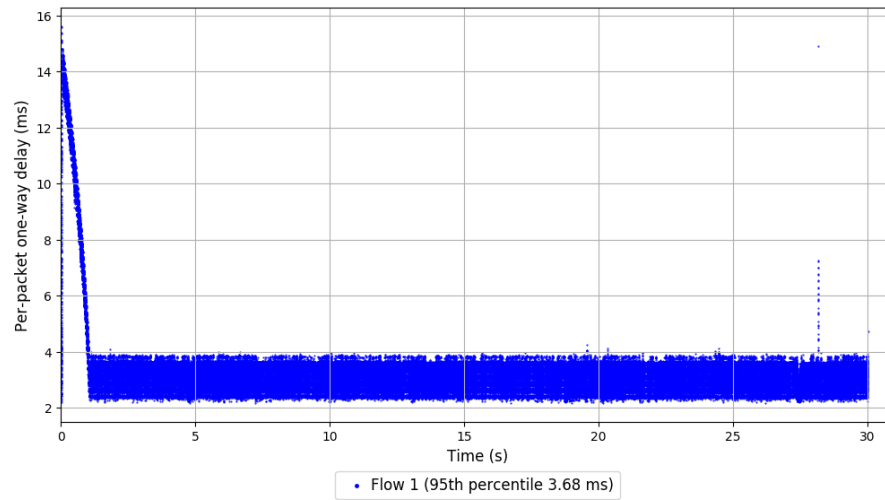Flow 1 (95th percentile 6.11 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2018-08-01 01:12:33
End at: 2018-08-01 01:13:03
Local clock offset: -3.108 ms
Remote clock offset: -2.857 ms


# Below is generated by plot.py at 2018-08-01 03:36:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 5.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.44 Mbit/s
95th percentile per-packet one-way delay: 5.126 ms
Loss rate: 0.00%
```

Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 97.44 Mbit/s) — — — Flow 1 egress (mean 97.44 Mbit/s)
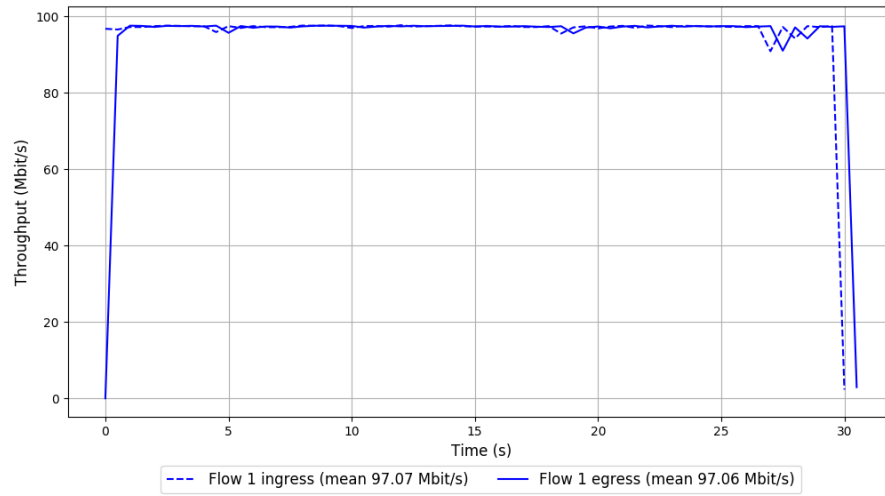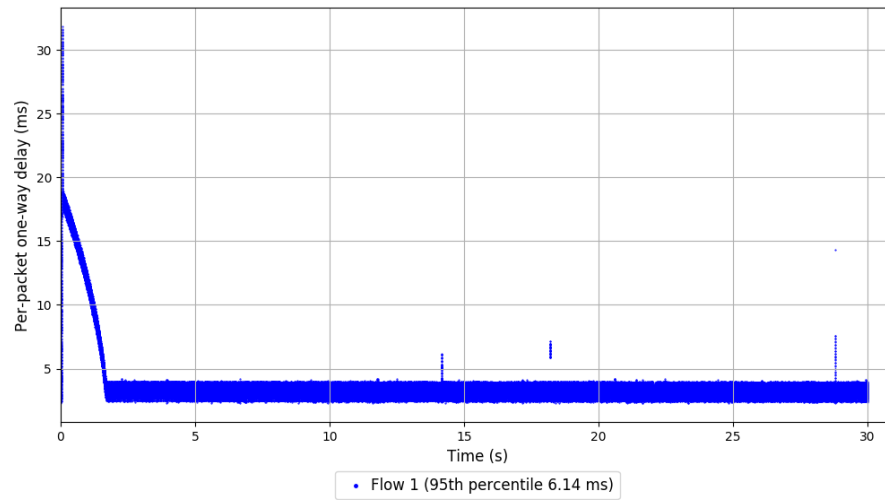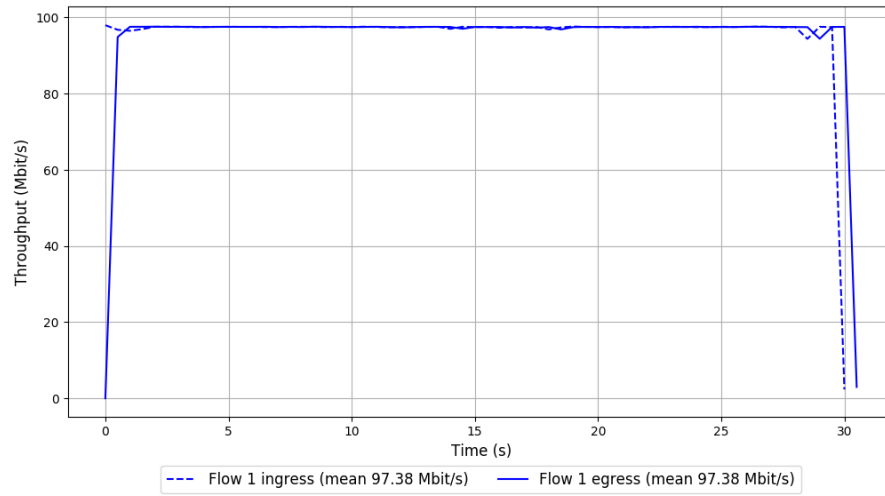

Flow 1 (95th percentile 5.13 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2018-08-01 01:31:35
End at: 2018-08-01 01:32:05
Local clock offset: -3.644 ms
Remote clock offset: -2.836 ms


# Below is generated by plot.py at 2018-08-01 03:36:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 3.677 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.06 Mbit/s
95th percentile per-packet one-way delay: 3.677 ms
Loss rate: 0.00%
```
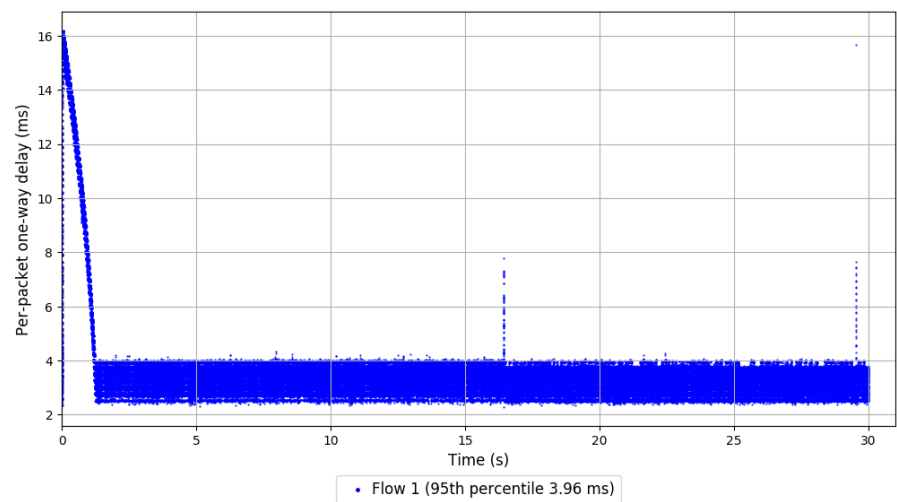
Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2018-08-01 01:50:37
End at: 2018-08-01 01:51:08
Local clock offset: -3.973 ms
Remote clock offset: -2.424 ms


# Below is generated by plot.py at 2018-08-01 03:36:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 6.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 6.140 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 97.38 Mbit/s) — — — Flow 1 egress (mean 97.38 Mbit/s)
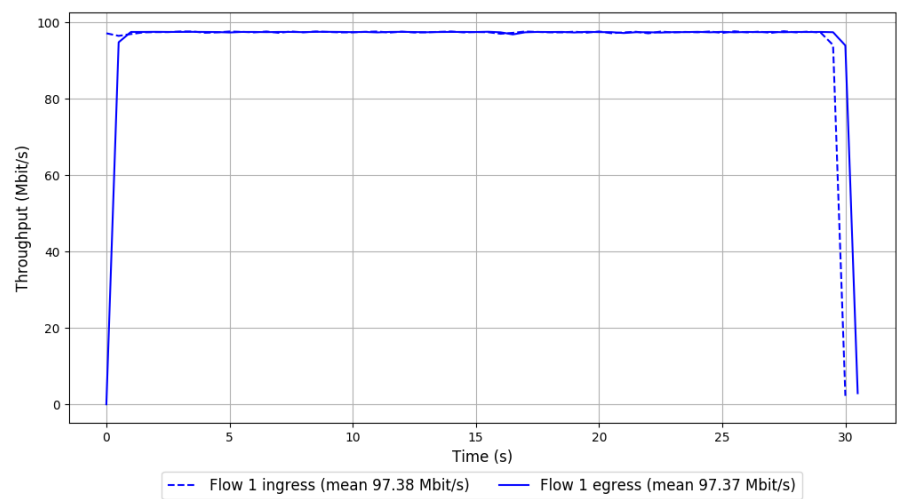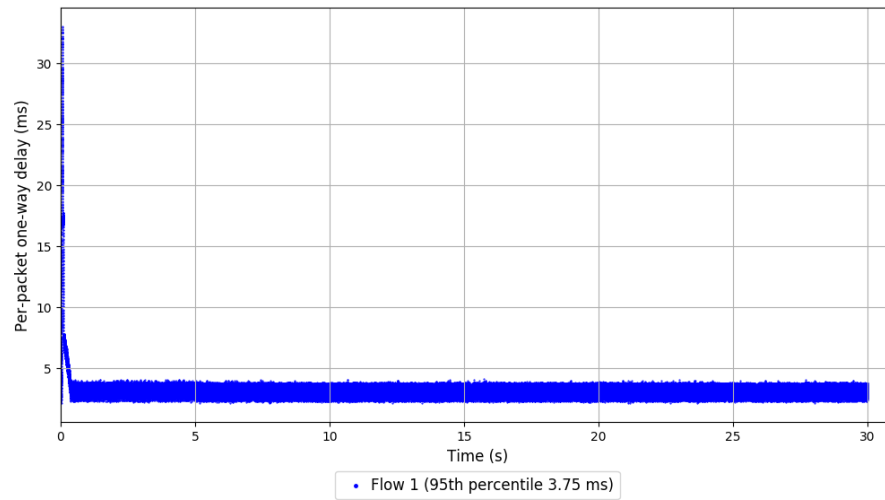

Flow 1 (95th percentile 6.14 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-08-01 02:09:39
End at: 2018-08-01 02:10:09
Local clock offset: -2.285 ms
Remote clock offset: -2.609 ms


# Below is generated by plot.py at 2018-08-01 03:36:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 3.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 3.958 ms
Loss rate: 0.00%
```
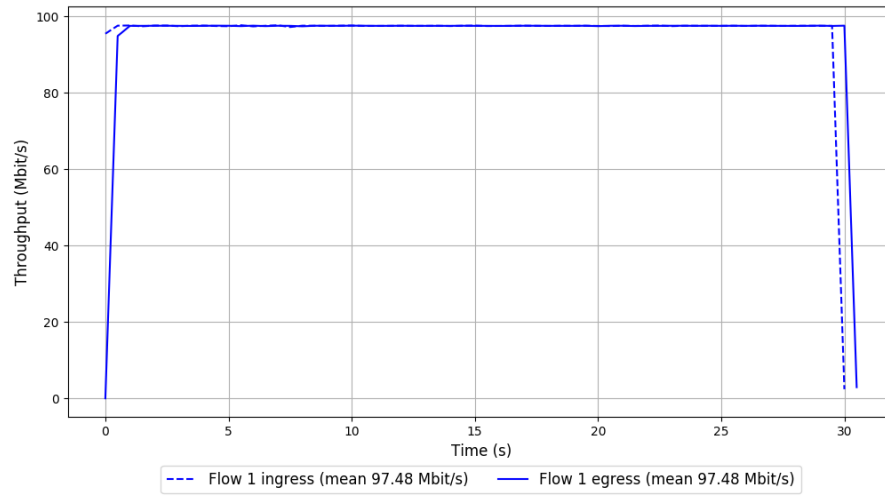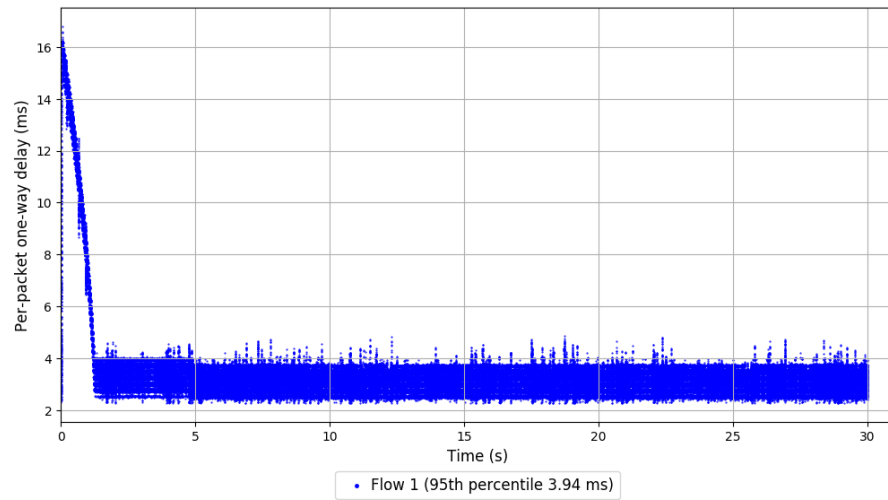
Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2018-08-01 02:28:47
End at: 2018-08-01 02:29:17
Local clock offset: -2.112 ms
Remote clock offset: -2.871 ms


# Below is generated by plot.py at 2018-08-01 03:36:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 3.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 3.750 ms
Loss rate: 0.00%
```
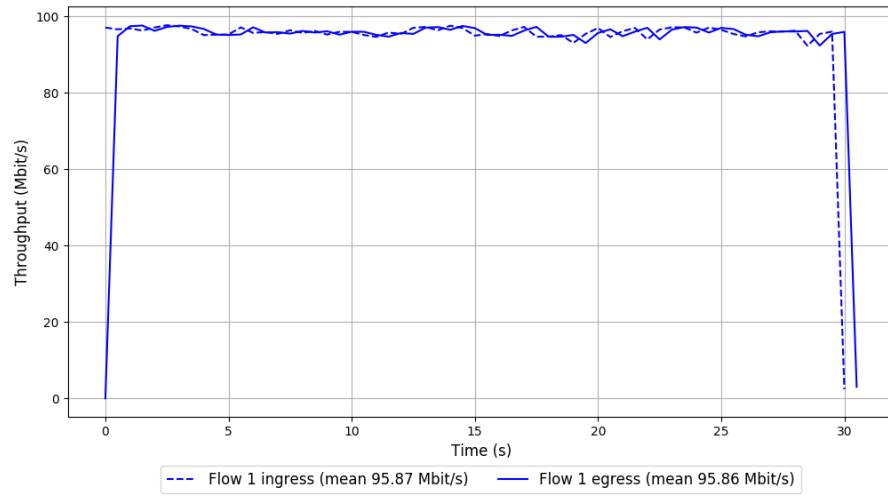
Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2018-08-01 02:47:54
End at: 2018-08-01 02:48:24
Local clock offset: -2.245 ms
Remote clock offset: -2.892 ms


# Below is generated by plot.py at 2018-08-01 03:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 3.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.86 Mbit/s
95th percentile per-packet one-way delay: 3.941 ms
Loss rate: 0.00%
```
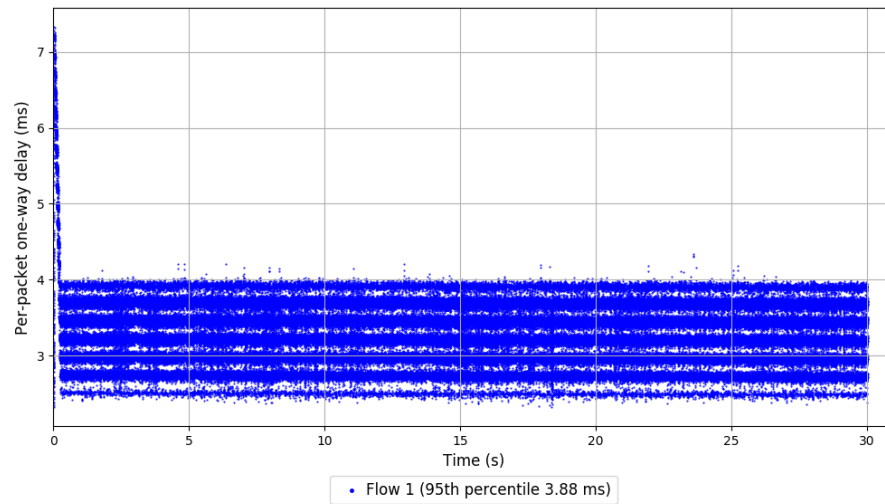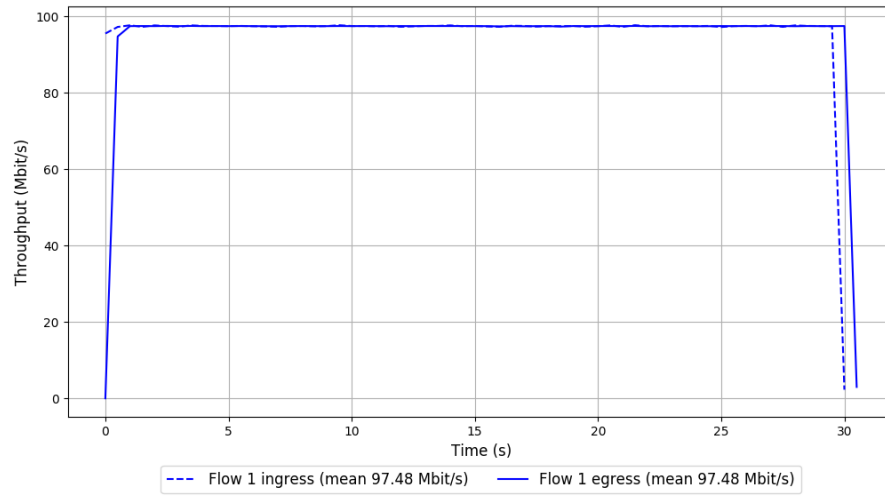
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 95.87 Mbit/s) ----   Flow 1 egress (mean 95.86 Mbit/s) ——

Flow 1 (95th percentile 3.94 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2018-08-01 03:06:56
End at: 2018-08-01 03:07:27
Local clock offset: -3.857 ms
Remote clock offset: -3.081 ms


# Below is generated by plot.py at 2018-08-01 03:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 3.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 3.885 ms
Loss rate: 0.00%
```

Run 10: Report of TCP Vegas — Data Link

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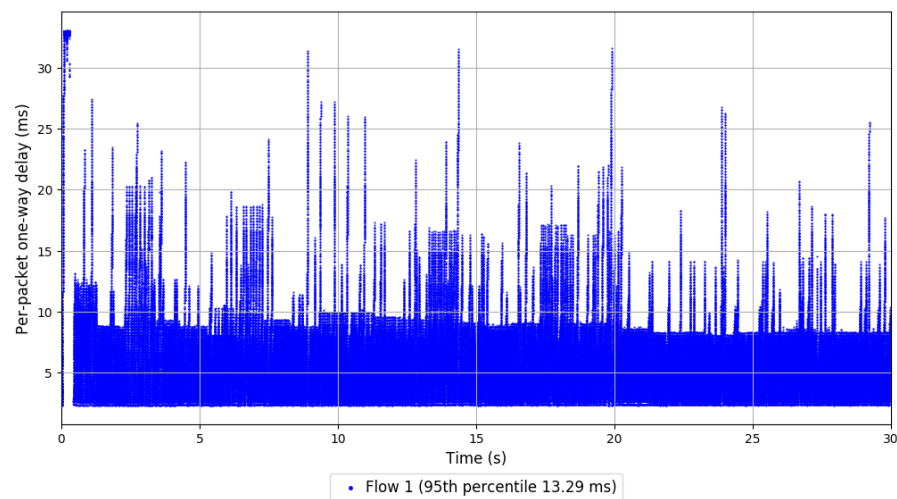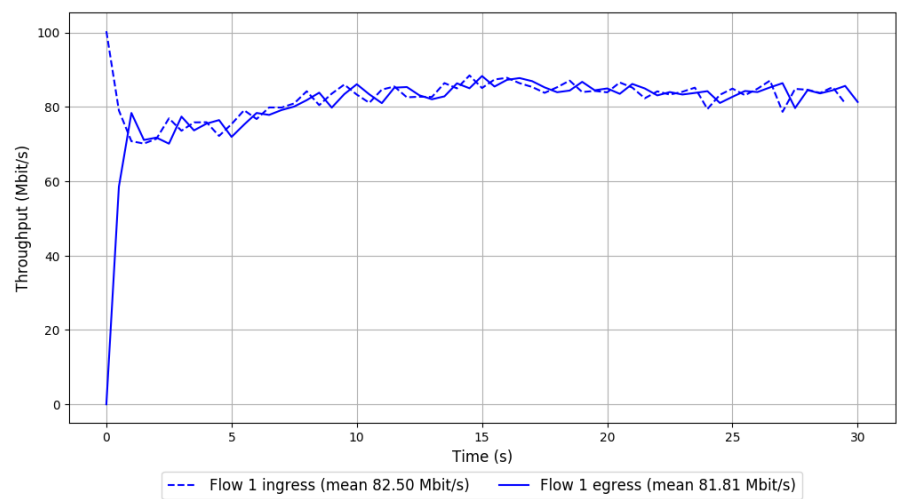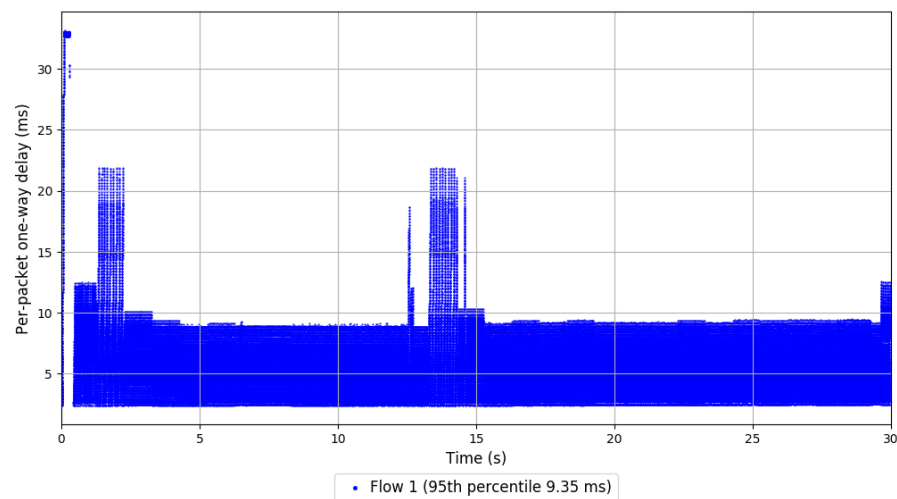

• Flow 1 (95th percentile 3.88 ms)

```
Run 1: Statistics of Verus

Start at: 2018-08-01 00:03:08
End at: 2018-08-01 00:03:38
Local clock offset: 0.789 ms
Remote clock offset: -1.855 ms


# Below is generated by plot.py at 2018-08-01 03:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.81 Mbit/s
95th percentile per-packet one-way delay: 13.293 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 81.81 Mbit/s
95th percentile per-packet one-way delay: 13.293 ms
Loss rate: 0.82%
```

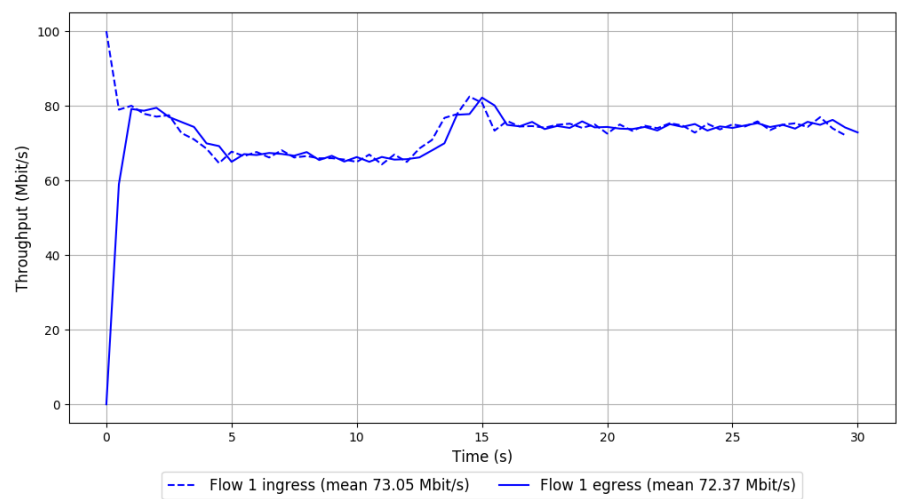Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2018-08-01 00:22:07
End at: 2018-08-01 00:22:37
Local clock offset: 2.07 ms
Remote clock offset: -1.685 ms


# Below is generated by plot.py at 2018-08-01 03:37:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.37 Mbit/s
95th percentile per-packet one-way delay: 9.345 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 72.37 Mbit/s
95th percentile per-packet one-way delay: 9.345 ms
Loss rate: 0.93%
```

Run 2: Report of Verus — Data Link

Flow 1 ingress (mean 73.05 Mbit/s)   Flow 1 egress (mean 72.37 Mbit/s)

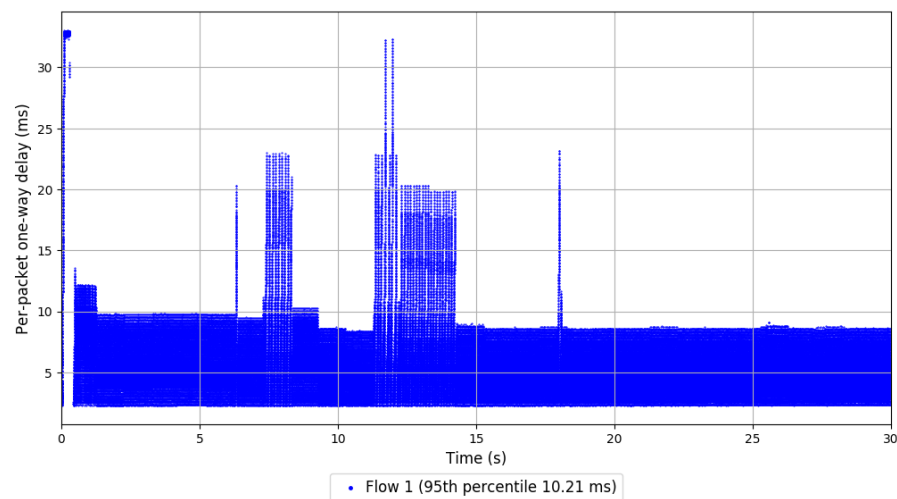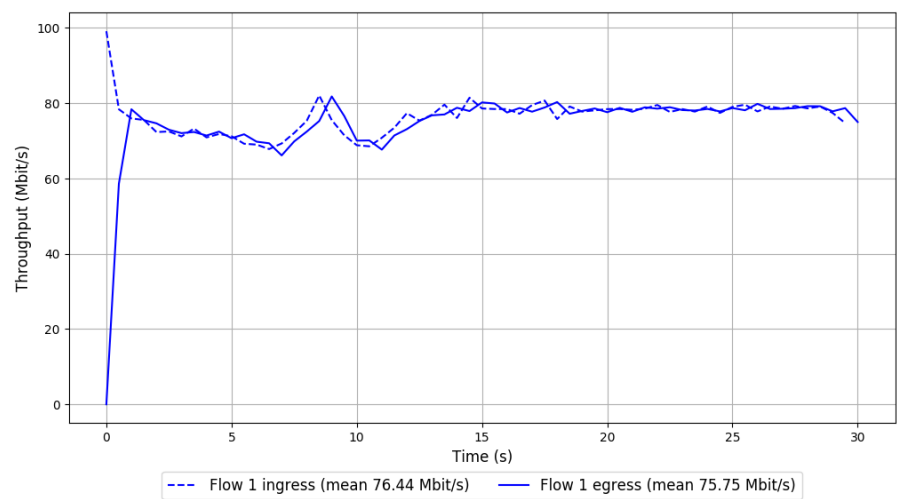Flow 1 (95th percentile 9.35 ms)

```
Run 3: Statistics of Verus

Start at: 2018-08-01 00:41:09
End at: 2018-08-01 00:41:39
Local clock offset: 3.458 ms
Remote clock offset: -2.416 ms


# Below is generated by plot.py at 2018-08-01 03:37:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 10.209 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 75.75 Mbit/s
95th percentile per-packet one-way delay: 10.209 ms
Loss rate: 0.88%
```

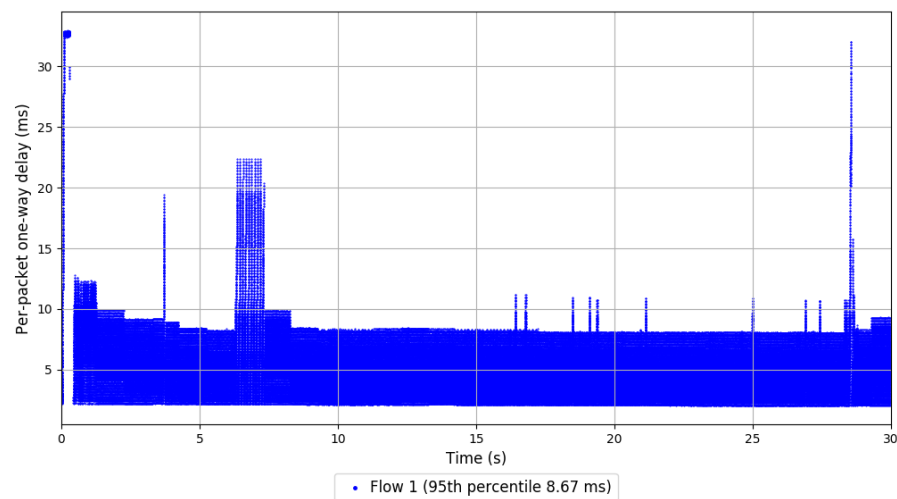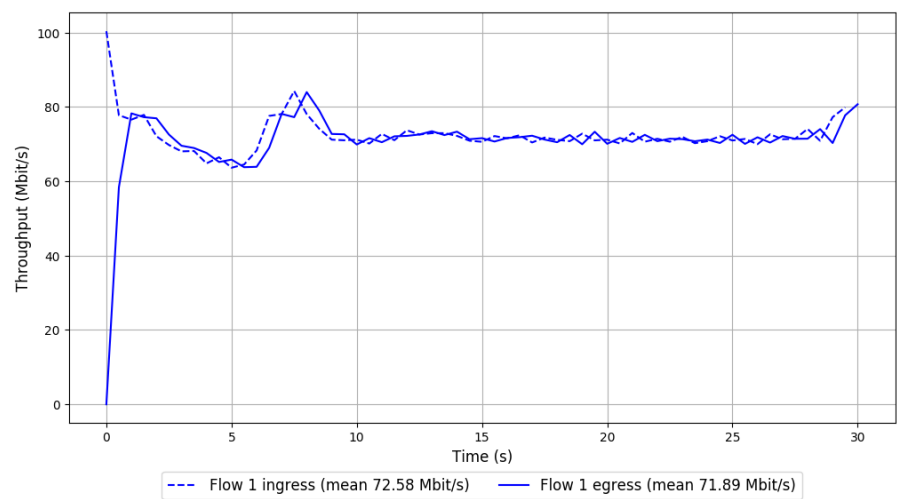## Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-08-01 01:00:11
End at: 2018-08-01 01:00:41
Local clock offset: -0.264 ms
Remote clock offset: -2.546 ms


# Below is generated by plot.py at 2018-08-01 03:37:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.89 Mbit/s
95th percentile per-packet one-way delay: 8.667 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 71.89 Mbit/s
95th percentile per-packet one-way delay: 8.667 ms
Loss rate: 0.93%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 72.58 Mbit/s)　　Flow 1 egress (mean 71.89 Mbit/s)

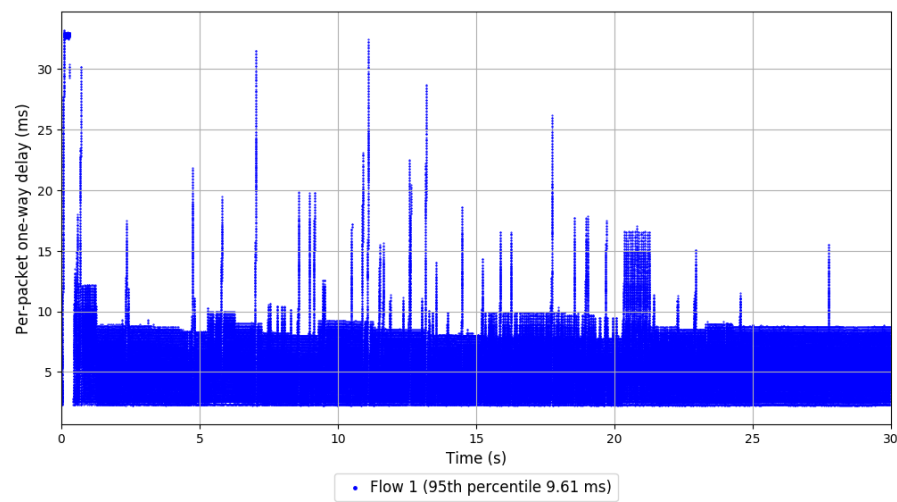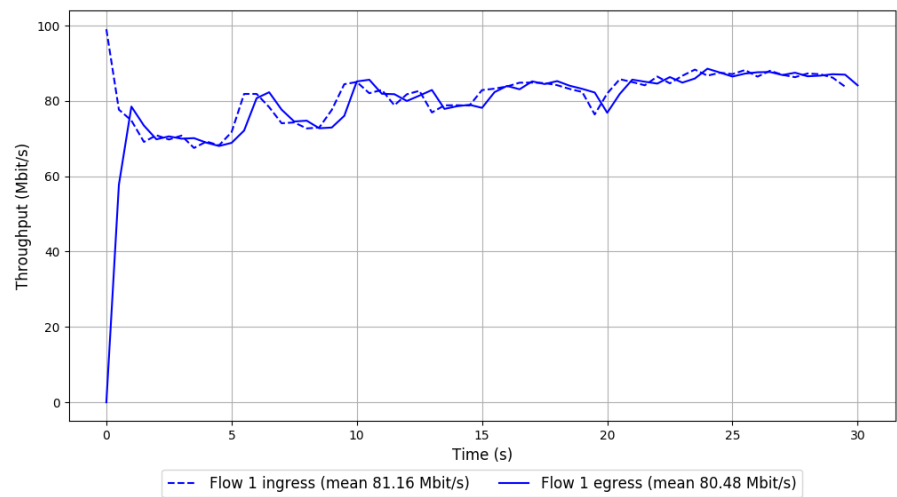Flow 1 (95th percentile 8.67 ms)

```
Run 5: Statistics of Verus

Start at: 2018-08-01 01:19:13
End at: 2018-08-01 01:19:43
Local clock offset: -3.807 ms
Remote clock offset: -2.772 ms


# Below is generated by plot.py at 2018-08-01 03:37:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.48 Mbit/s
95th percentile per-packet one-way delay: 9.610 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 80.48 Mbit/s
95th percentile per-packet one-way delay: 9.610 ms
Loss rate: 0.83%
```

Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 81.16 Mbit/s)   Flow 1 egress (mean 80.48 Mbit/s)

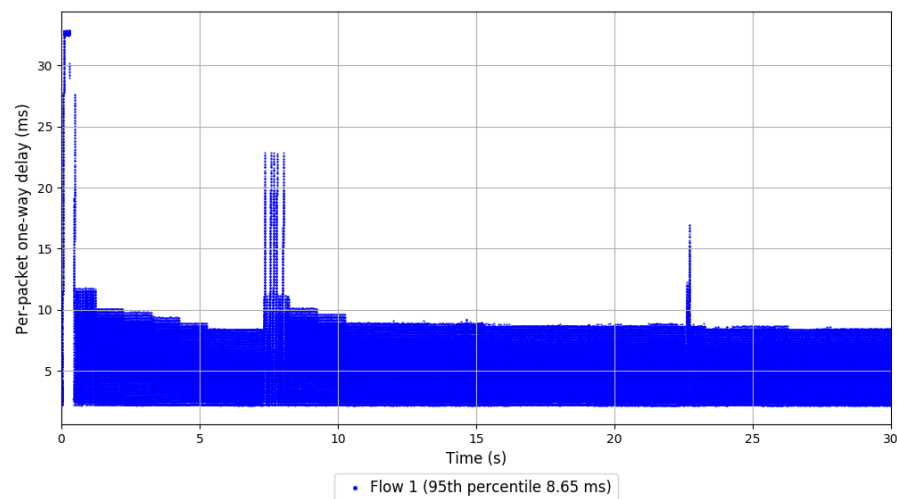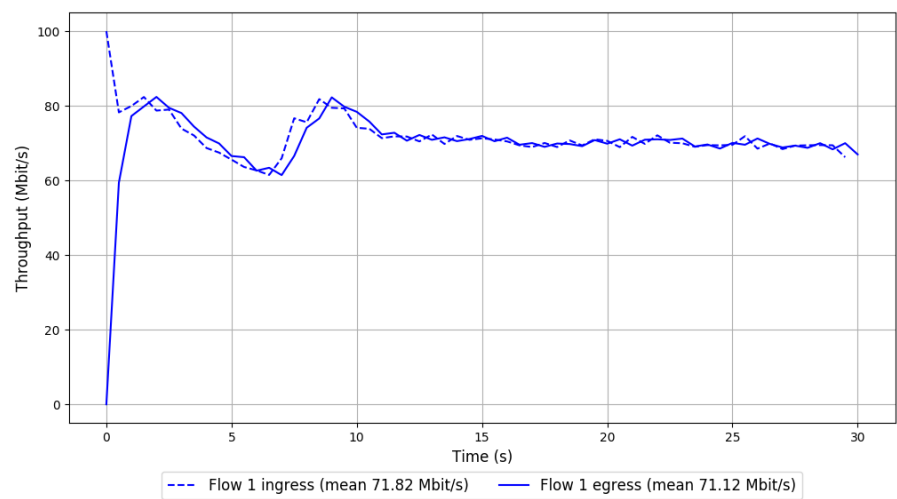Flow 1 (95th percentile 9.61 ms)

```
Run 6: Statistics of Verus

Start at: 2018-08-01 01:38:16
End at: 2018-08-01 01:38:46
Local clock offset: -3.683 ms
Remote clock offset: -2.705 ms


# Below is generated by plot.py at 2018-08-01 03:37:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.12 Mbit/s
95th percentile per-packet one-way delay: 8.651 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 71.12 Mbit/s
95th percentile per-packet one-way delay: 8.651 ms
Loss rate: 0.94%
```

Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 71.82 Mbit/s) — Flow 1 egress (mean 71.12 Mbit/s)

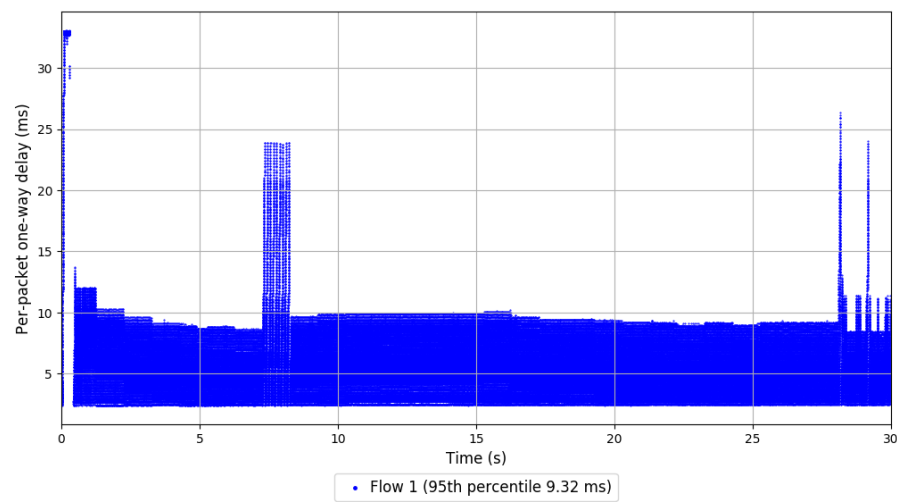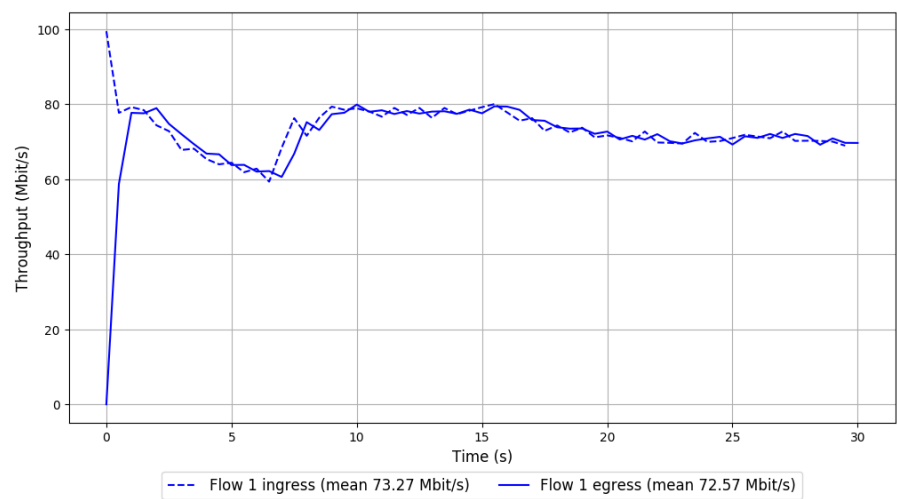Flow 1 (95th percentile 8.65 ms)

```
Run 7: Statistics of Verus

Start at: 2018-08-01 01:57:18
End at: 2018-08-01 01:57:48
Local clock offset: -3.241 ms
Remote clock offset: -2.441 ms


# Below is generated by plot.py at 2018-08-01 03:37:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 9.317 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 72.57 Mbit/s
95th percentile per-packet one-way delay: 9.317 ms
Loss rate: 0.93%
```

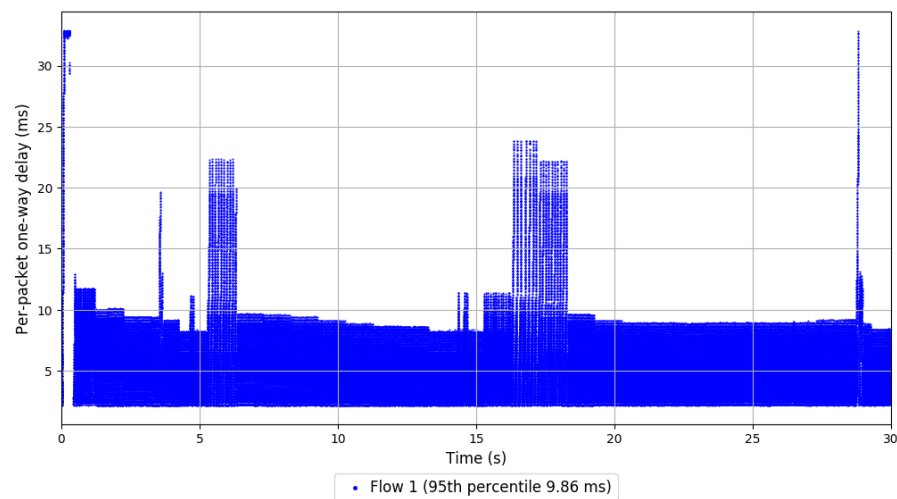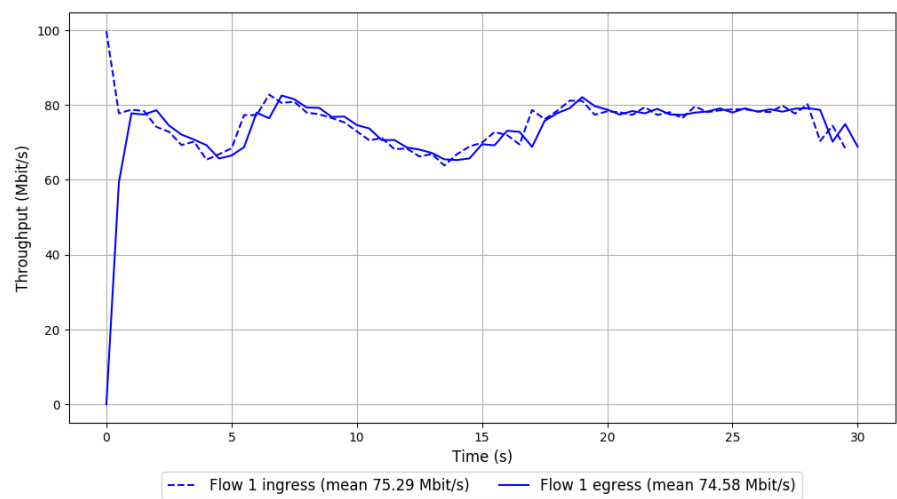## Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: 2018-08-01 02:16:25
End at: 2018-08-01 02:16:55
Local clock offset: -2.094 ms
Remote clock offset: -2.795 ms


# Below is generated by plot.py at 2018-08-01 03:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.58 Mbit/s
95th percentile per-packet one-way delay: 9.857 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 74.58 Mbit/s
95th percentile per-packet one-way delay: 9.857 ms
Loss rate: 0.91%
```

Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 75.29 Mbit/s)   Flow 1 egress (mean 74.58 Mbit/s)

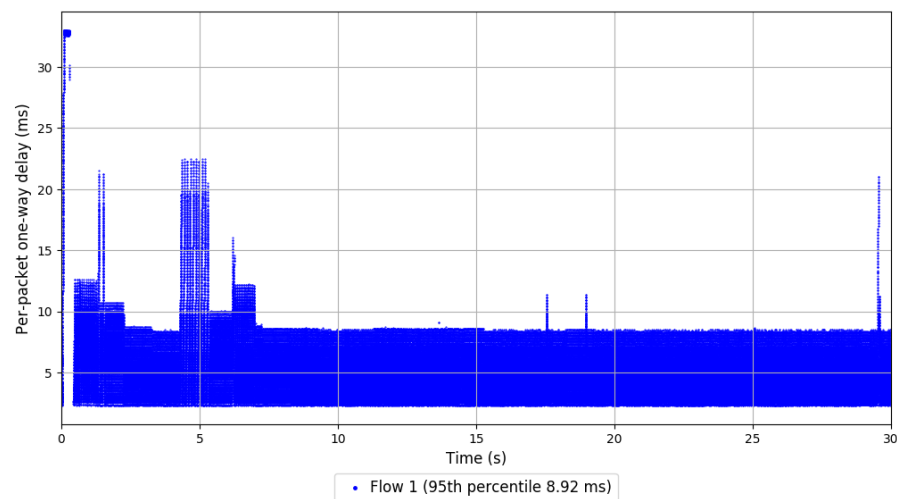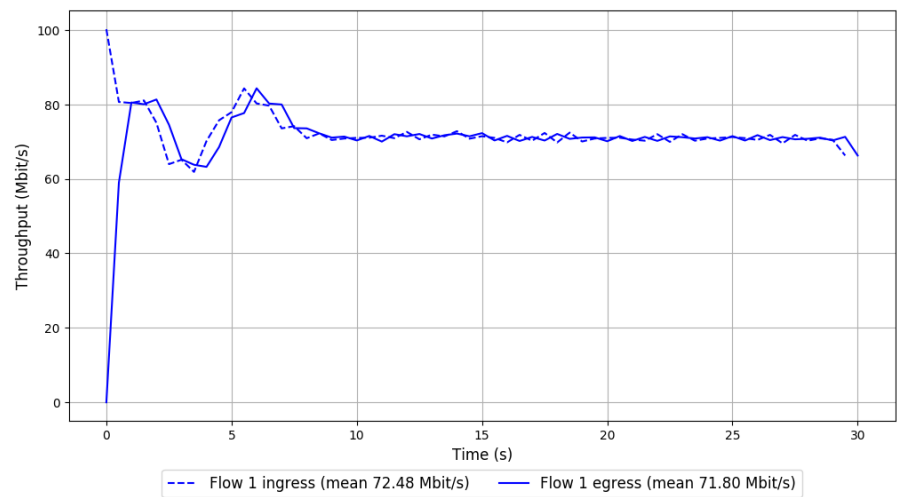Flow 1 (95th percentile 9.86 ms)

```
Run 9: Statistics of Verus

Start at: 2018-08-01 02:35:27
End at: 2018-08-01 02:35:57
Local clock offset: -2.165 ms
Remote clock offset: -2.684 ms


# Below is generated by plot.py at 2018-08-01 03:37:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.80 Mbit/s
95th percentile per-packet one-way delay: 8.923 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 71.80 Mbit/s
95th percentile per-packet one-way delay: 8.923 ms
Loss rate: 0.93%
```

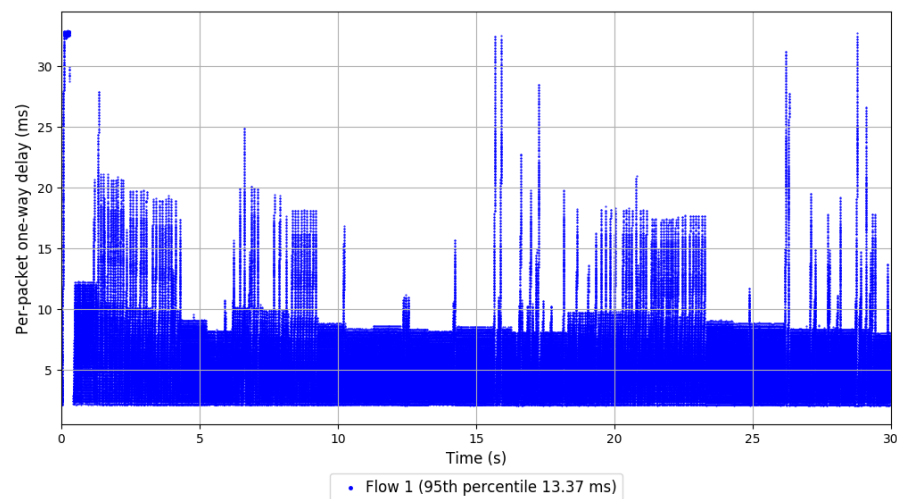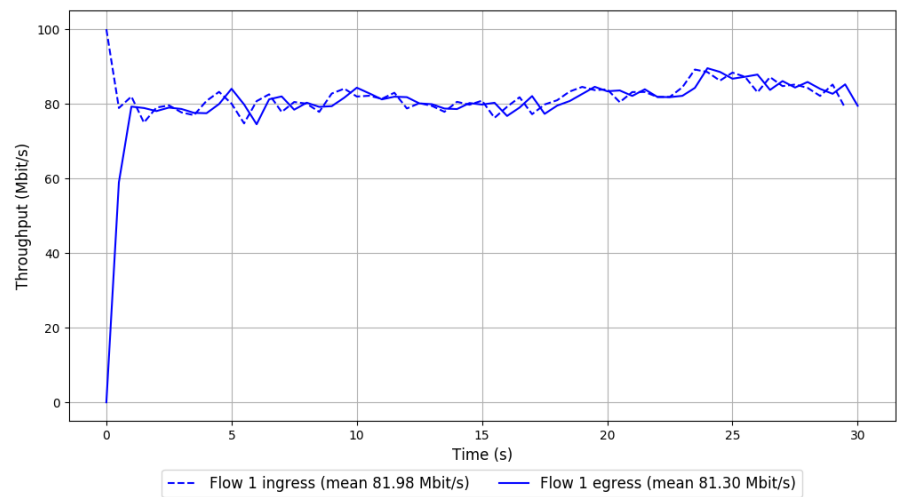## Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2018-08-01 02:54:34
End at: 2018-08-01 02:55:04
Local clock offset: -2.611 ms
Remote clock offset: -3.021 ms

# Below is generated by plot.py at 2018-08-01 03:38:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 13.368 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 13.368 ms
Loss rate: 0.83%
```
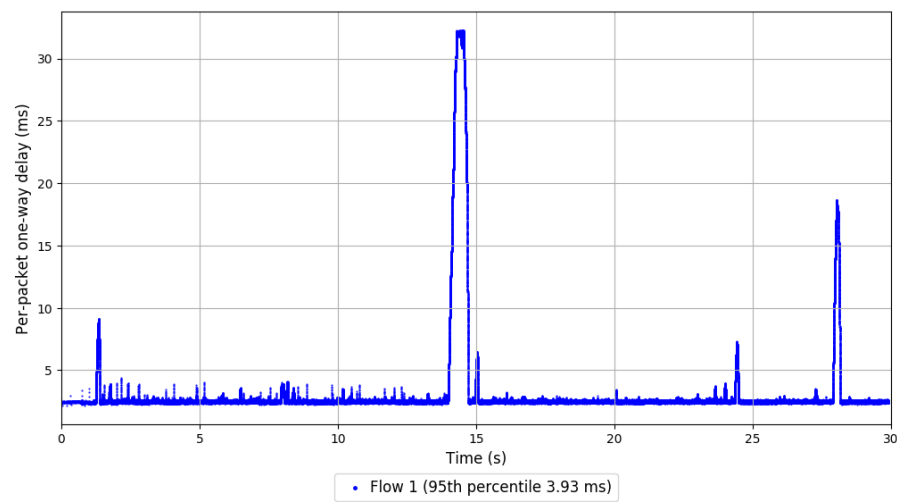
Run 10: Report of Verus — Data Link

Flow 1 ingress (mean 81.98 Mbit/s) --- Flow 1 egress (mean 81.30 Mbit/s)

• Flow 1 (95th percentile 13.37 ms)

303

```
Run 1: Statistics of PCC-Vivace

Start at: 2018-08-01 00:04:16
End at: 2018-08-01 00:04:46
Local clock offset: 0.822 ms
Remote clock offset: -1.899 ms


# Below is generated by plot.py at 2018-08-01 03:38:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.67 Mbit/s
95th percentile per-packet one-way delay: 3.929 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 83.67 Mbit/s
95th percentile per-packet one-way delay: 3.929 ms
Loss rate: 0.04%
```
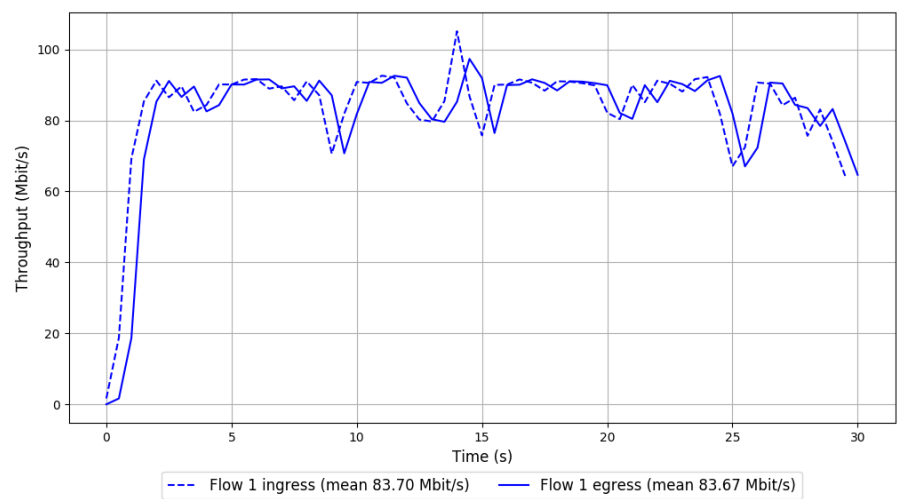
Run 1: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 83.70 Mbit/s)   Flow 1 egress (mean 83.67 Mbit/s)

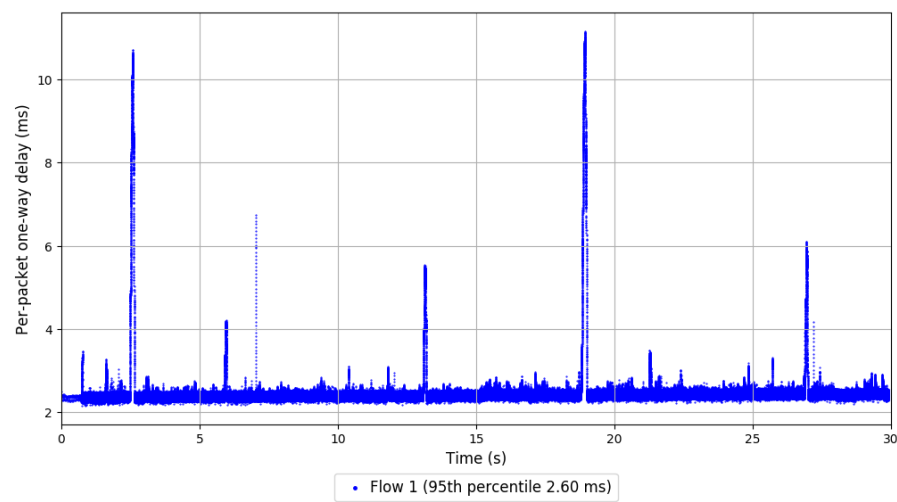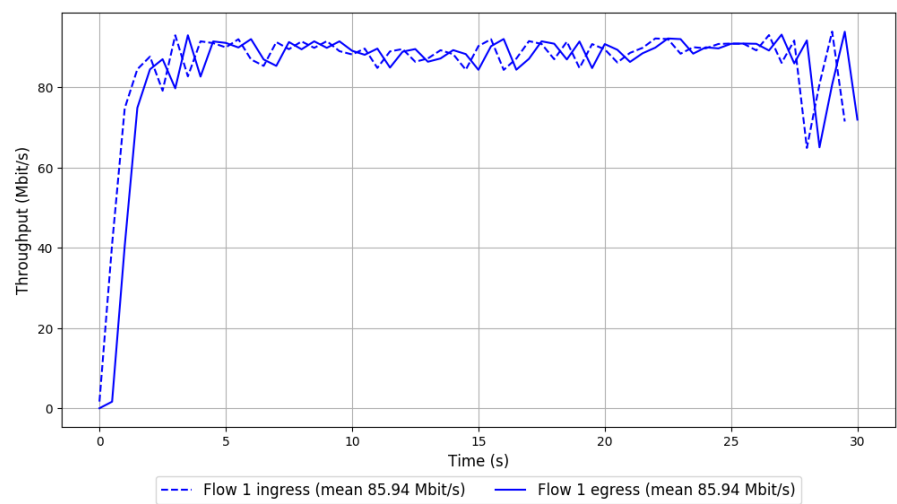
Flow 1 (95th percentile 3.93 ms)

```
Run 2: Statistics of PCC-Vivace

Start at: 2018-08-01 00:23:15
End at: 2018-08-01 00:23:45
Local clock offset: 2.232 ms
Remote clock offset: -1.824 ms


# Below is generated by plot.py at 2018-08-01 03:38:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.94 Mbit/s
95th percentile per-packet one-way delay: 2.597 ms
Loss rate: 0.00%
```
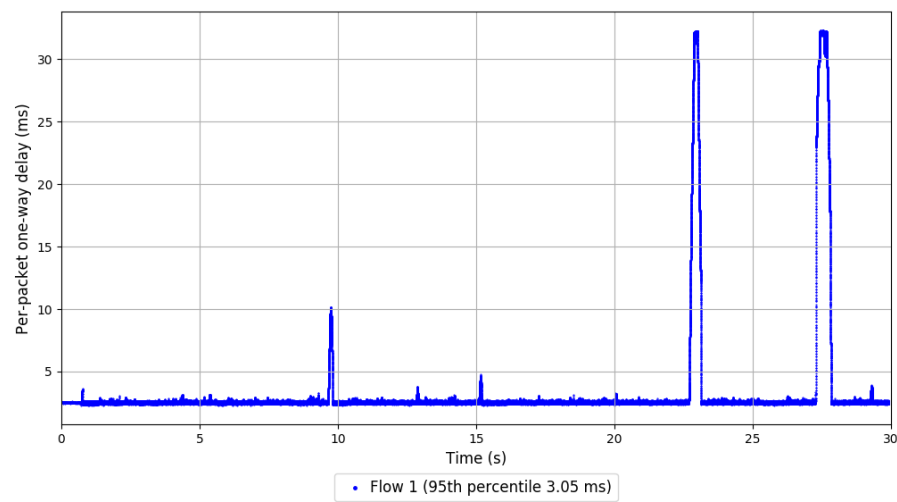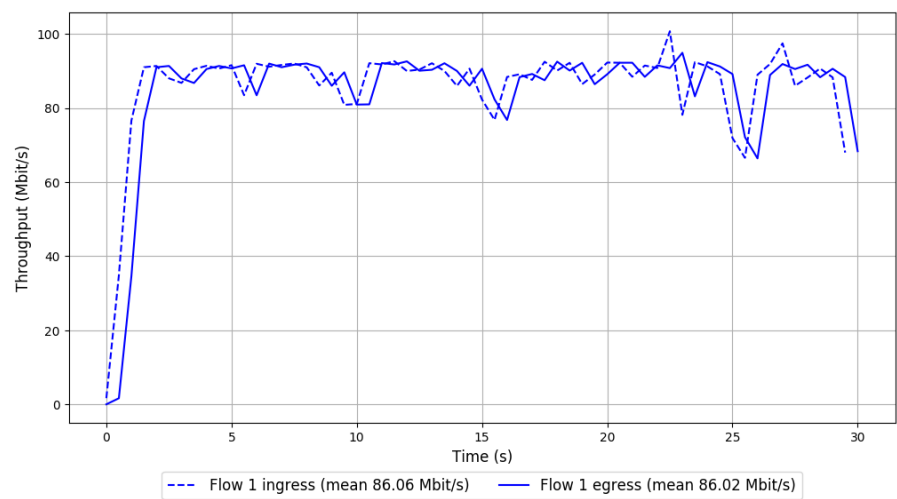
Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2018-08-01 00:42:17
End at: 2018-08-01 00:42:47
Local clock offset: 3.498 ms
Remote clock offset: -2.388 ms


# Below is generated by plot.py at 2018-08-01 03:38:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.02 Mbit/s
95th percentile per-packet one-way delay: 3.051 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 86.02 Mbit/s
95th percentile per-packet one-way delay: 3.051 ms
Loss rate: 0.04%
```

Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 86.06 Mbit/s) --- Flow 1 egress (mean 86.02 Mbit/s)

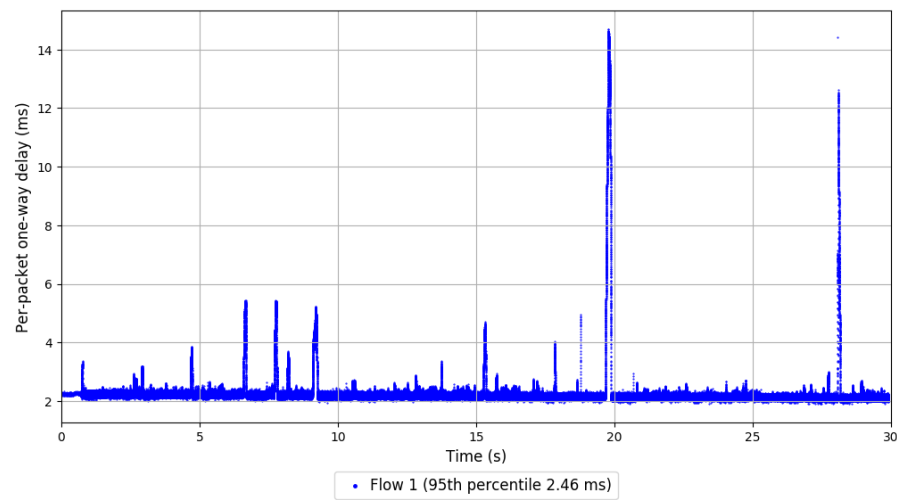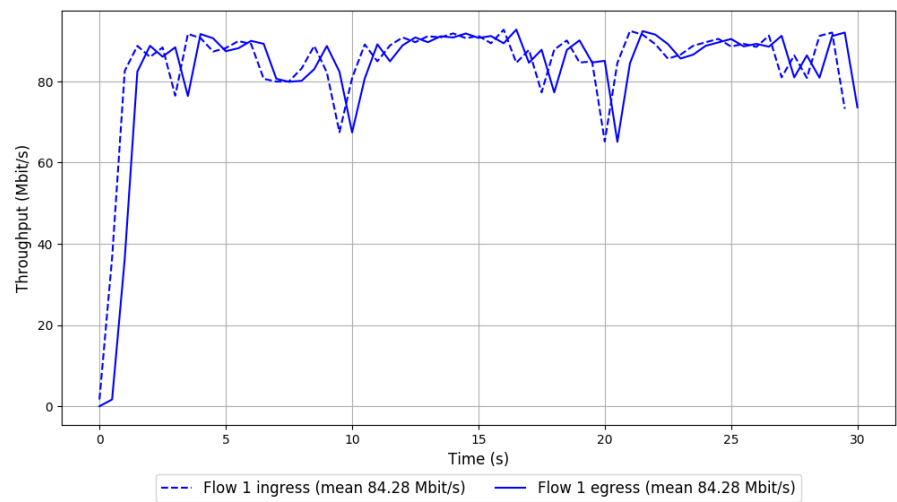• Flow 1 (95th percentile 3.05 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2018-08-01 01:01:19
End at: 2018-08-01 01:01:49
Local clock offset: -0.607 ms
Remote clock offset: -2.584 ms


# Below is generated by plot.py at 2018-08-01 03:38:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.28 Mbit/s
95th percentile per-packet one-way delay: 2.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.28 Mbit/s
95th percentile per-packet one-way delay: 2.458 ms
Loss rate: 0.00%
```
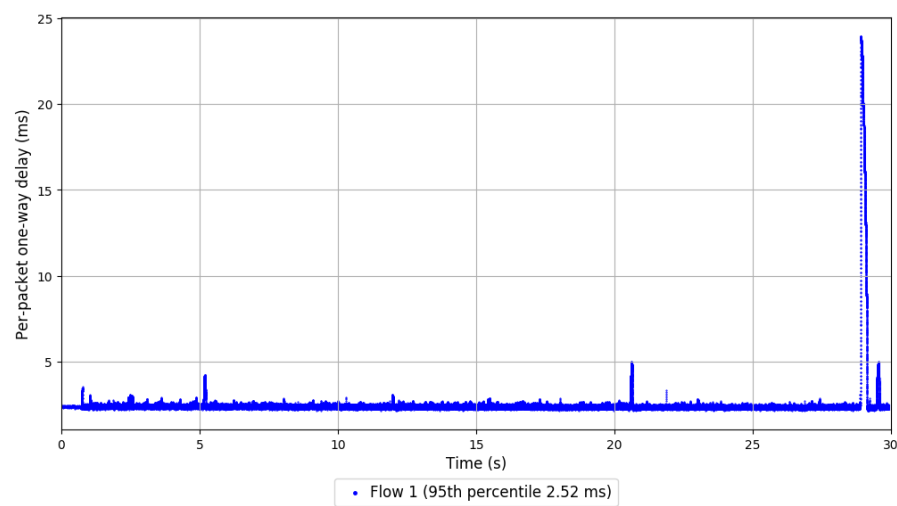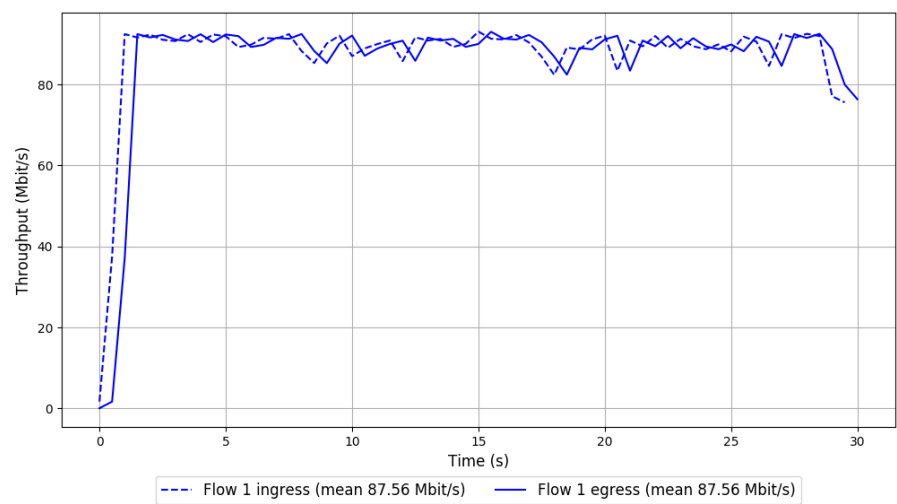
Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2018-08-01 01:20:21
End at: 2018-08-01 01:20:51
Local clock offset: -3.91 ms
Remote clock offset: -2.805 ms


# Below is generated by plot.py at 2018-08-01 03:39:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.56 Mbit/s
95th percentile per-packet one-way delay: 2.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.56 Mbit/s
95th percentile per-packet one-way delay: 2.522 ms
Loss rate: 0.00%
```

Run 5: Report of PCC-Vivace — Data Link

```
Run 6: Statistics of PCC-Vivace

Start at: 2018-08-01 01:39:23
End at: 2018-08-01 01:39:53
Local clock offset: -3.765 ms
Remote clock offset: -2.573 ms


# Below is generated by plot.py at 2018-08-01 03:39:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.87 Mbit/s
95th percentile per-packet one-way delay: 2.614 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.87 Mbit/s
95th percentile per-packet one-way delay: 2.614 ms
Loss rate: 0.00%
```
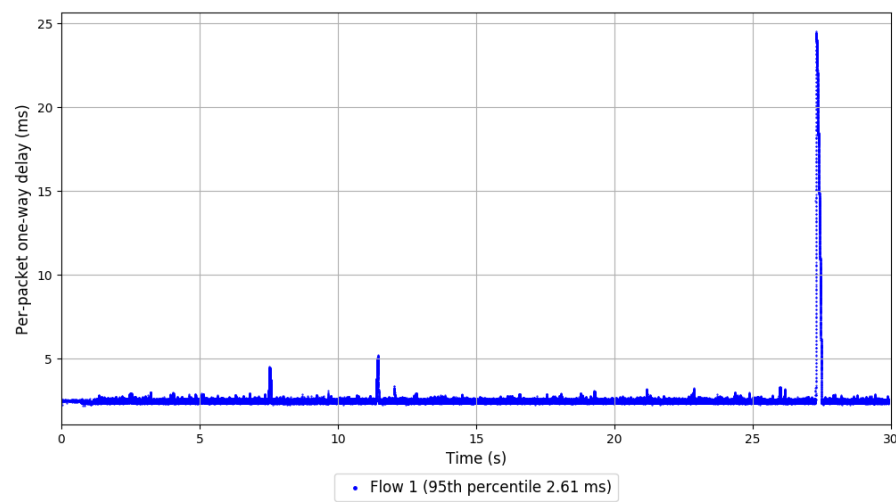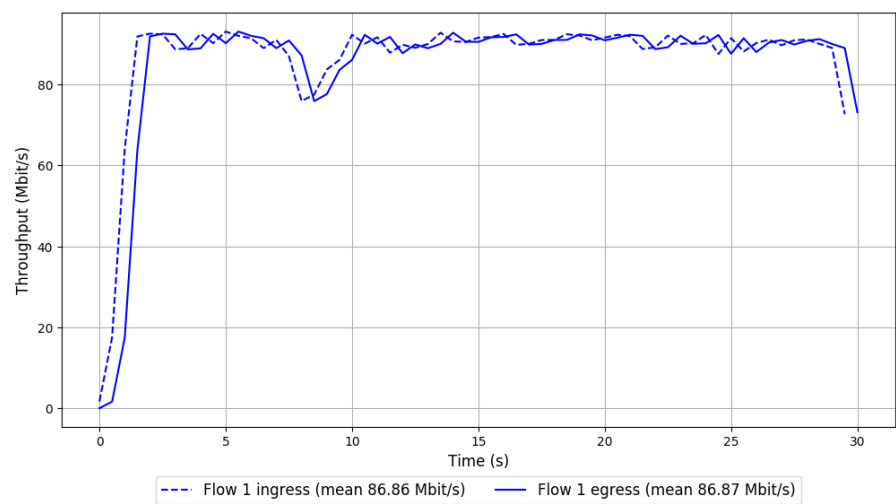
Run 6: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 86.86 Mbit/s) ----- Flow 1 egress (mean 86.87 Mbit/s) ——
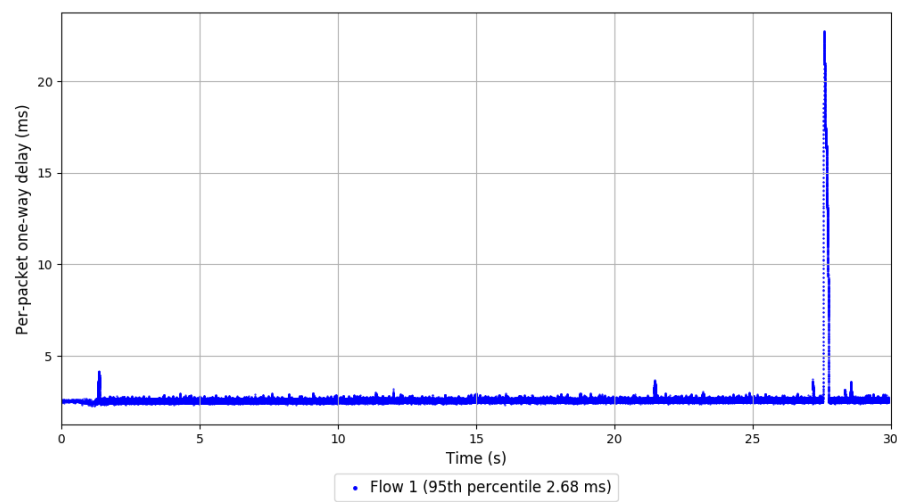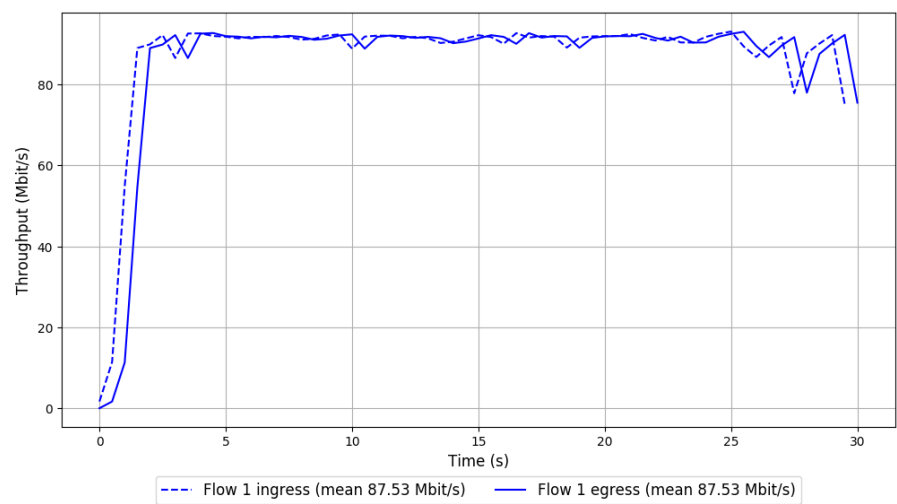

Flow 1 (95th percentile 2.61 ms)

```
Run 7: Statistics of PCC-Vivace

Start at: 2018-08-01 01:58:25
End at: 2018-08-01 01:58:55
Local clock offset: -3.052 ms
Remote clock offset: -2.377 ms


# Below is generated by plot.py at 2018-08-01 03:39:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.53 Mbit/s
95th percentile per-packet one-way delay: 2.679 ms
Loss rate: 0.00%
```

Run 7: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 87.53 Mbit/s) --- Flow 1 egress (mean 87.53 Mbit/s)
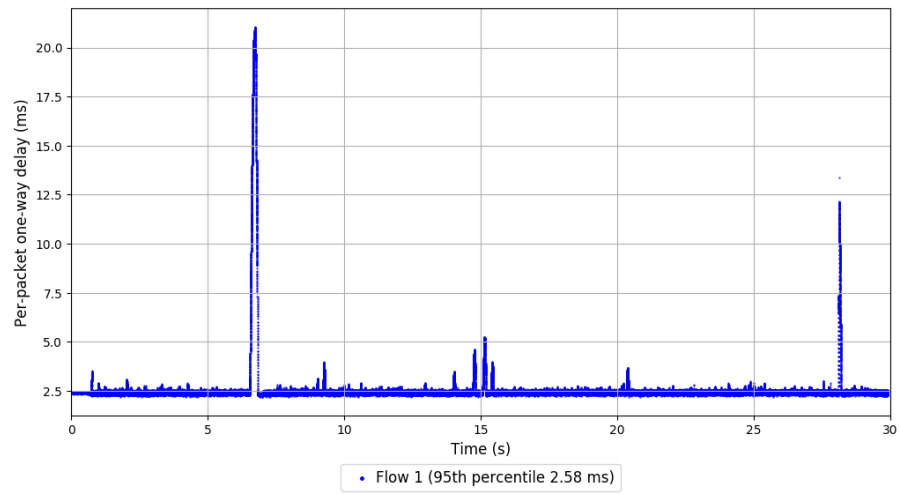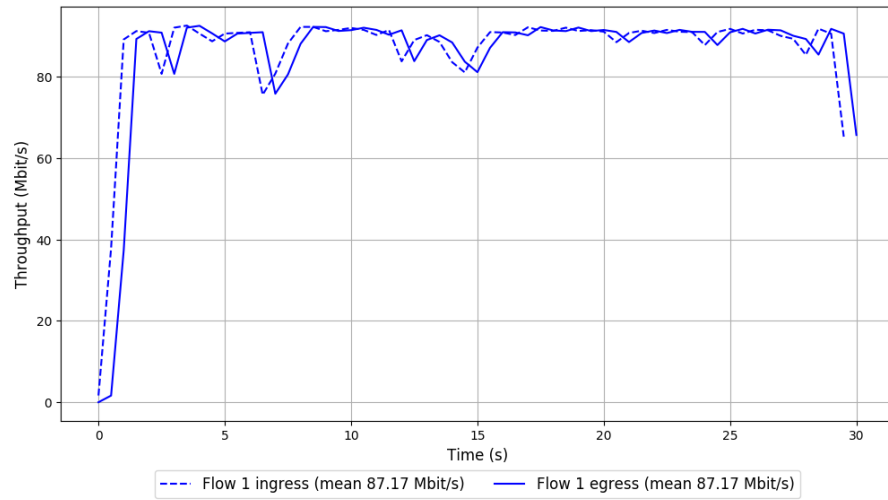

Flow 1 (95th percentile 2.68 ms)

```
Run 8: Statistics of PCC-Vivace

Start at: 2018-08-01 02:17:32
End at: 2018-08-01 02:18:02
Local clock offset: -2.069 ms
Remote clock offset: -2.679 ms


# Below is generated by plot.py at 2018-08-01 03:39:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.17 Mbit/s
95th percentile per-packet one-way delay: 2.581 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.17 Mbit/s
95th percentile per-packet one-way delay: 2.581 ms
Loss rate: 0.00%
```

Run 8: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 87.17 Mbit/s)   Flow 1 egress (mean 87.17 Mbit/s)

Flow 1 (95th percentile 2.58 ms)

```
Run 9: Statistics of PCC-Vivace

Start at: 2018-08-01 02:36:34
End at: 2018-08-01 02:37:04
Local clock offset: -2.171 ms
Remote clock offset: -2.785 ms


# Below is generated by plot.py at 2018-08-01 03:39:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 2.445 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 2.445 ms
Loss rate: 0.00%
```
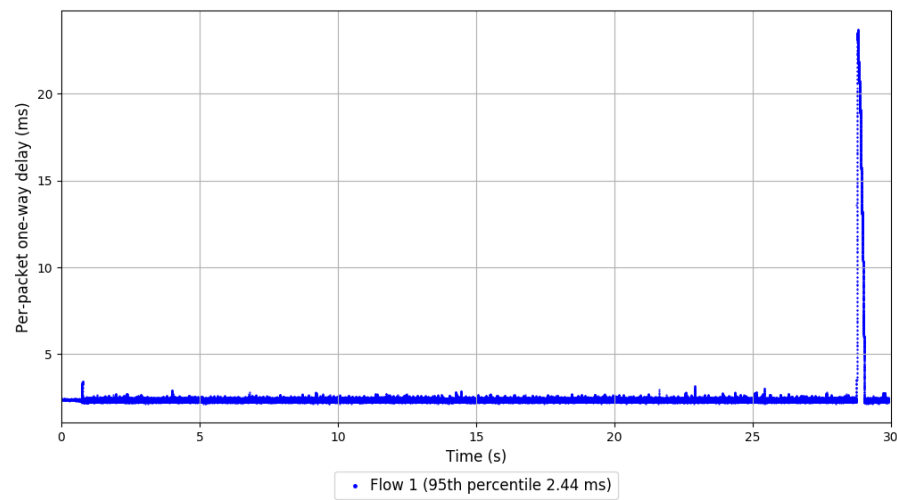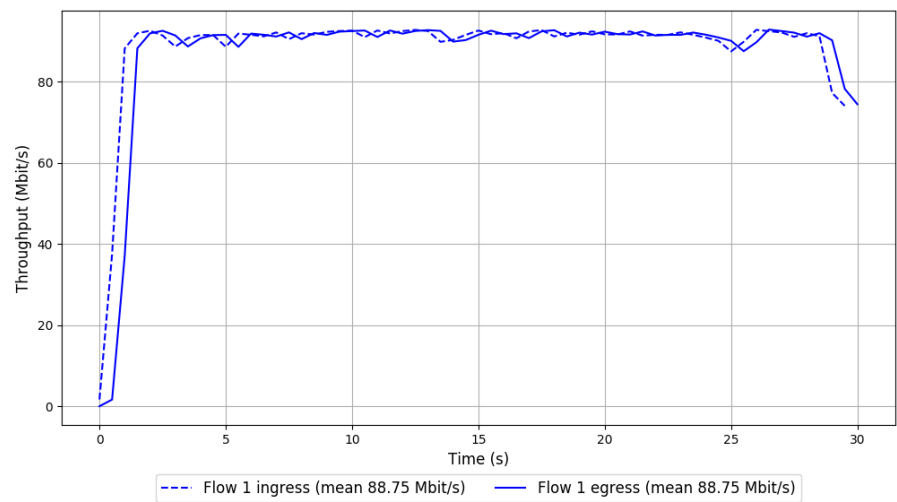
Run 9: Report of PCC-Vivace — Data Link

```
Run 10: Statistics of PCC-Vivace

Start at: 2018-08-01 02:55:42
End at: 2018-08-01 02:56:12
Local clock offset: -2.772 ms
Remote clock offset: -2.987 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.12 Mbit/s
95th percentile per-packet one-way delay: 2.940 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 88.12 Mbit/s
95th percentile per-packet one-way delay: 2.940 ms
Loss rate: 0.03%
```
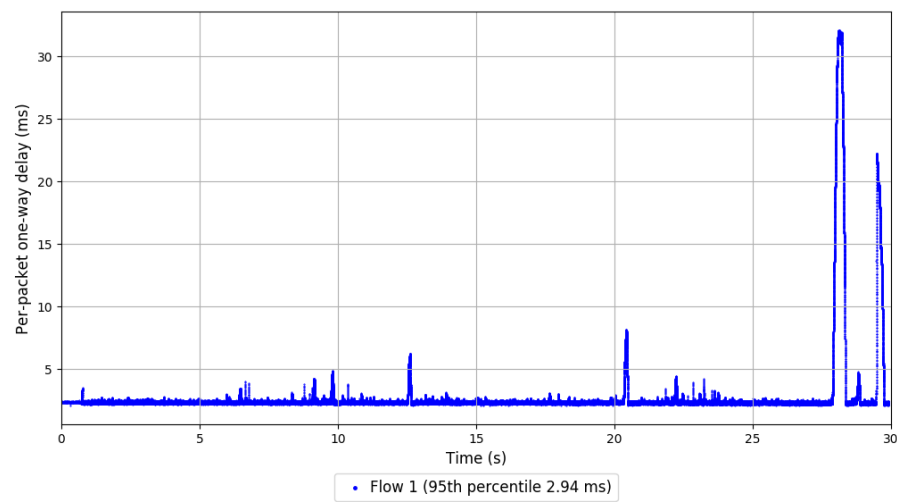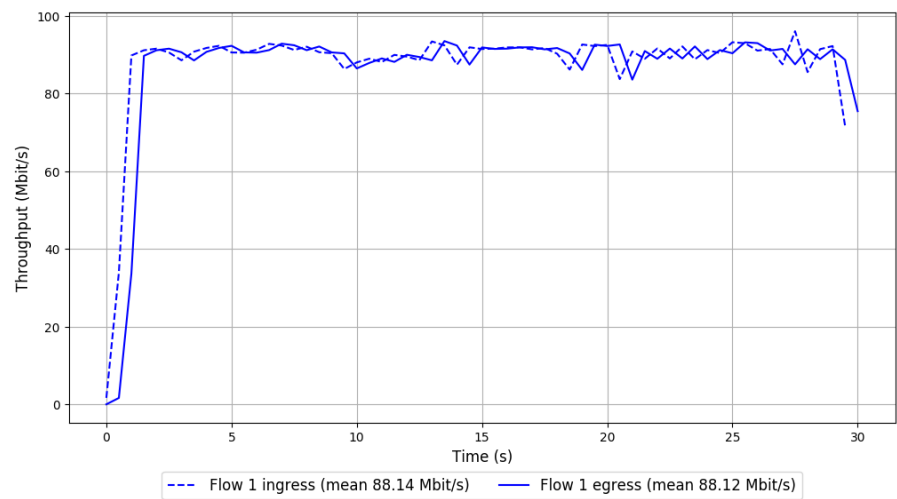
Run 10: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 88.14 Mbit/s)   Flow 1 egress (mean 88.12 Mbit/s)
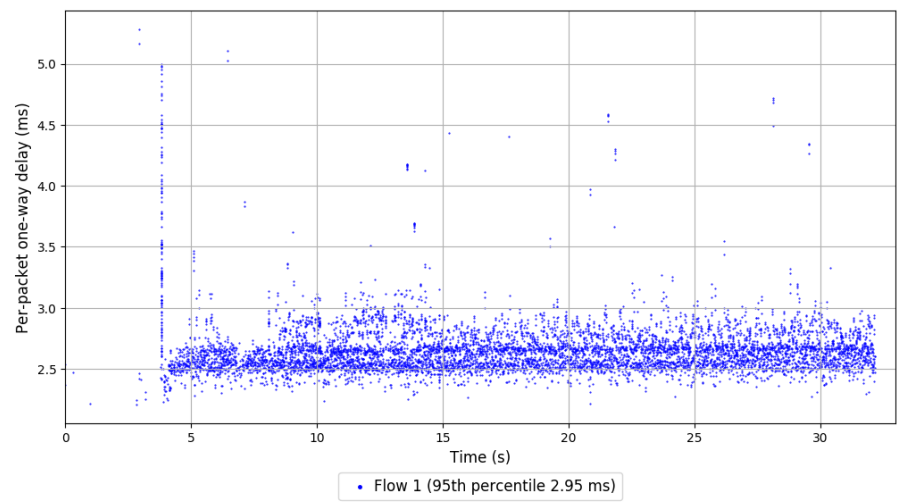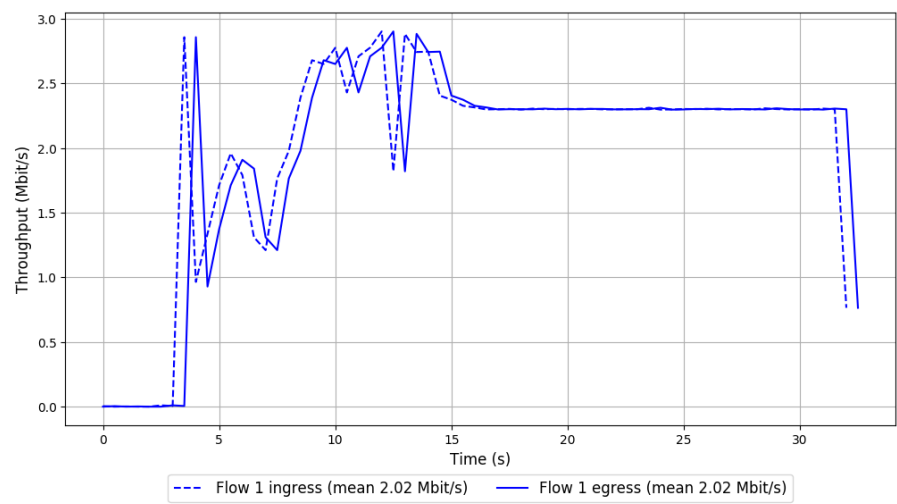

Flow 1 (95th percentile 2.94 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2018-08-01 00:02:05
End at: 2018-08-01 00:02:35
Local clock offset: 0.71 ms
Remote clock offset: -1.874 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 2.950 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 2.950 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-08-01 00:21:04
End at: 2018-08-01 00:21:34
Local clock offset: 2.072 ms
Remote clock offset: -1.68 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.863 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.863 ms
Loss rate: 0.00%
```
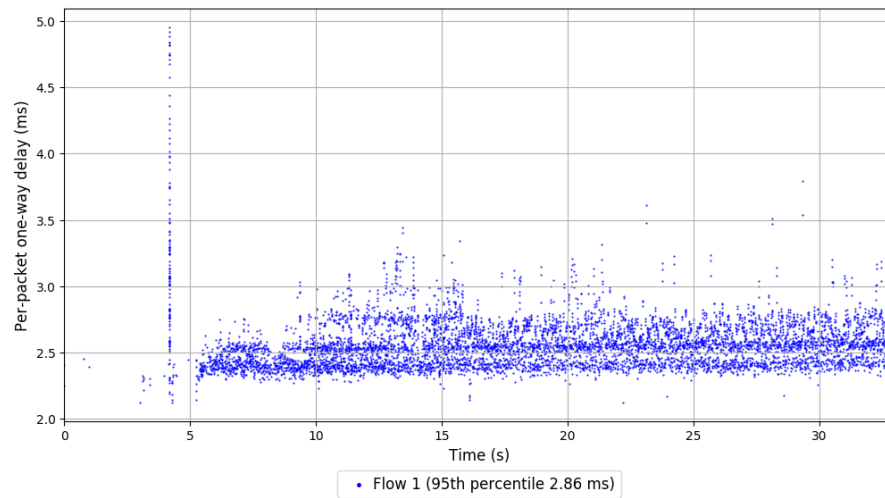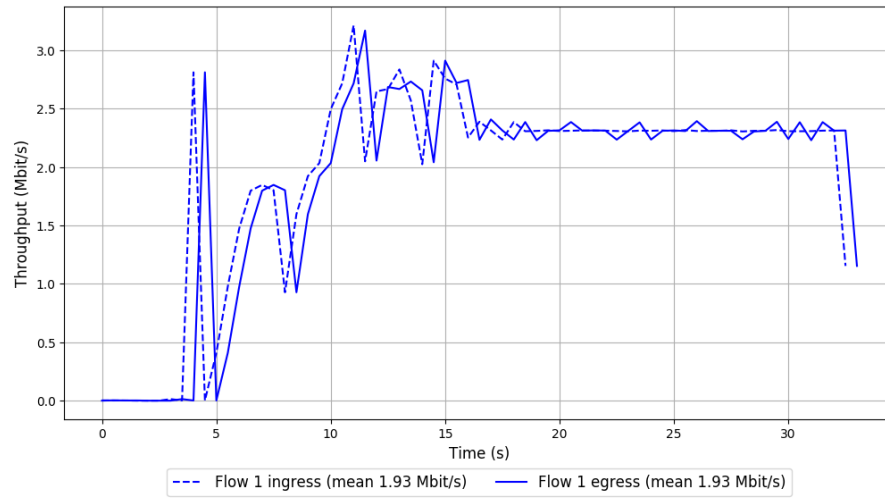
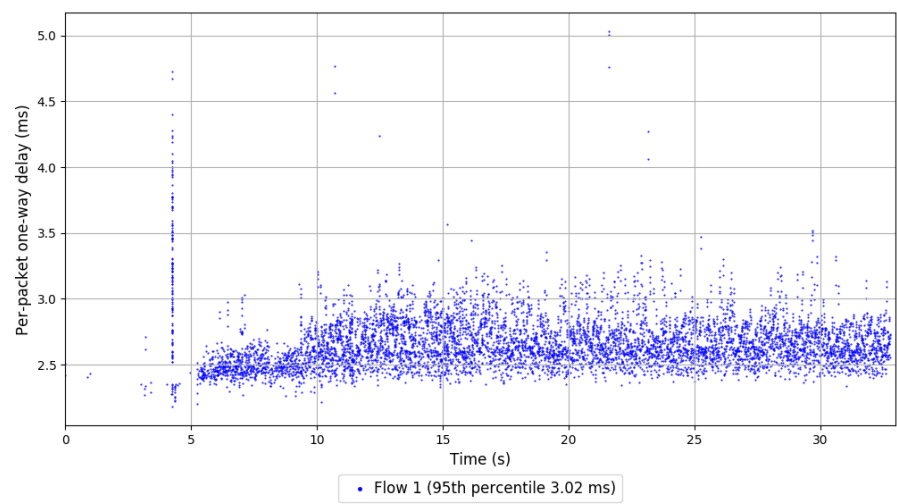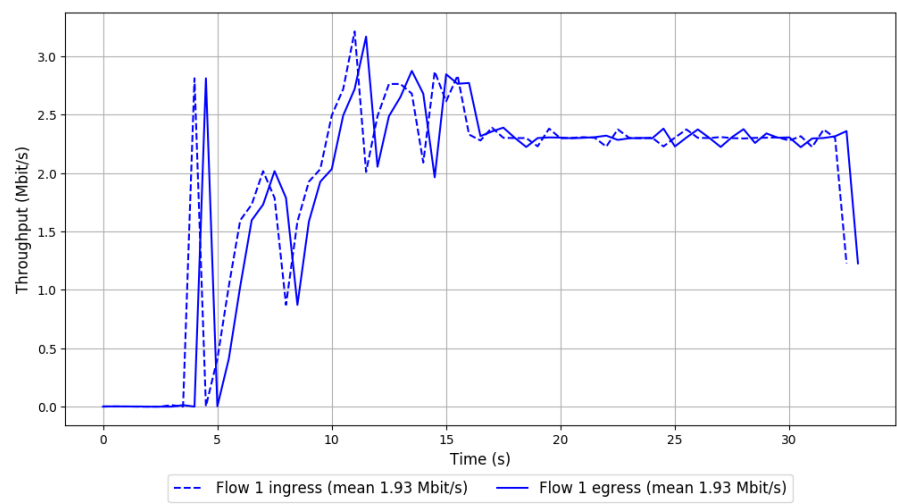Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-08-01 00:40:06
End at: 2018-08-01 00:40:36
Local clock offset: 3.398 ms
Remote clock offset: -2.428 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 3.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 3.016 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.93 Mbit/s) ---- Flow 1 egress (mean 1.93 Mbit/s)

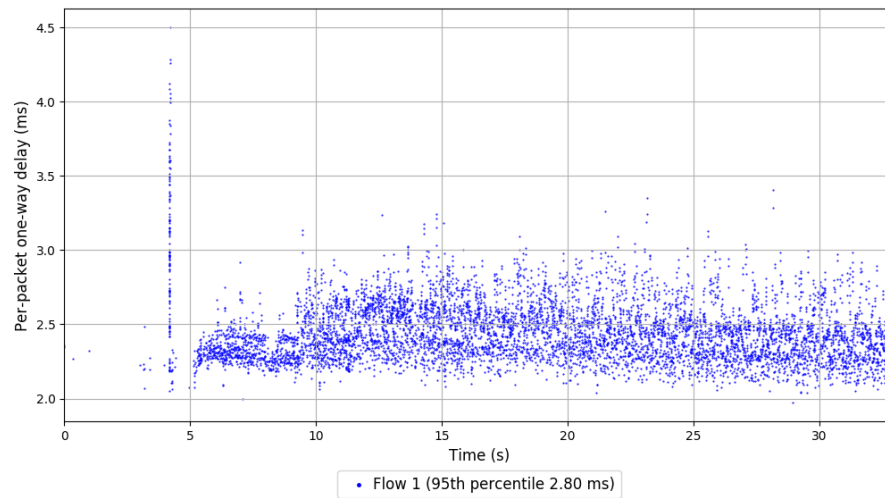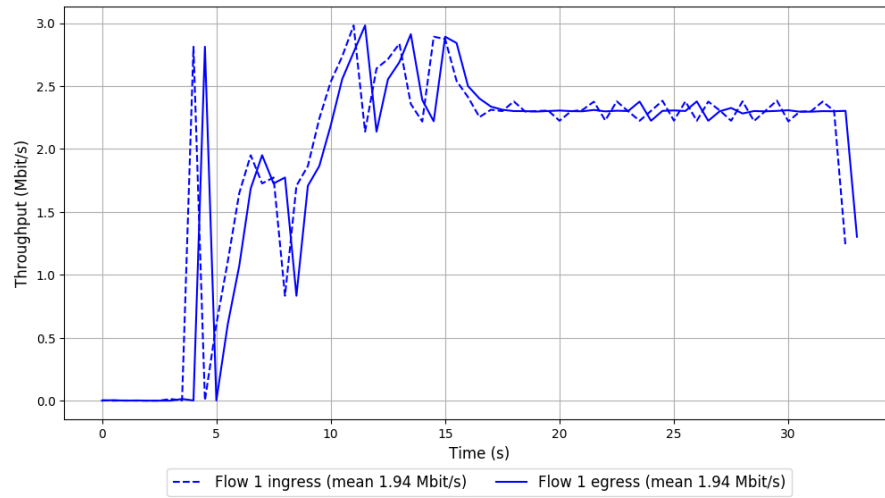
• Flow 1 (95th percentile 3.02 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2018-08-01 00:59:08
End at: 2018-08-01 00:59:38
Local clock offset: 0.212 ms
Remote clock offset: -2.496 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 2.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 2.802 ms
Loss rate: 0.00%
```
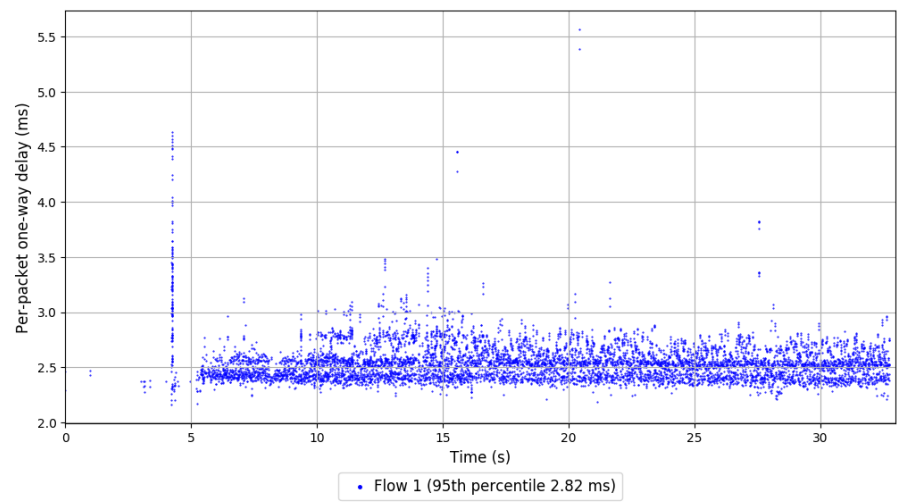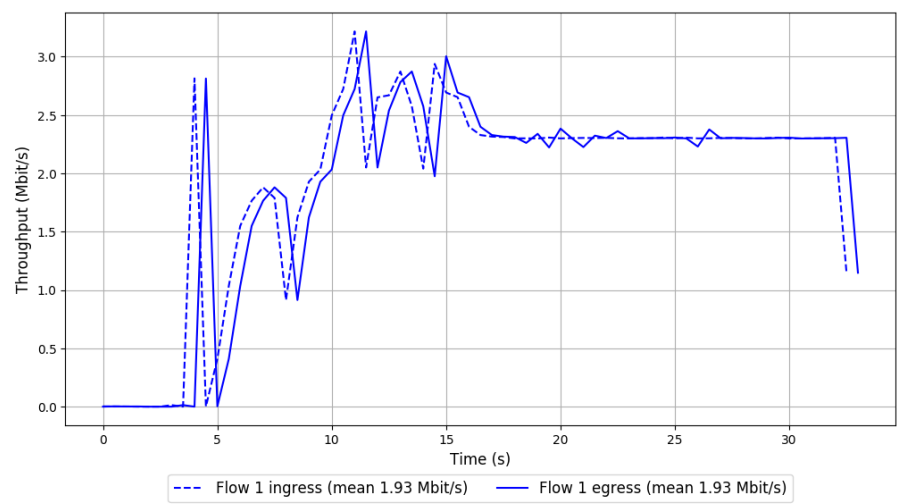
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2018-08-01 01:18:10
End at: 2018-08-01 01:18:40
Local clock offset: -3.788 ms
Remote clock offset: -2.877 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.819 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.819 ms
Loss rate: 0.00%
```
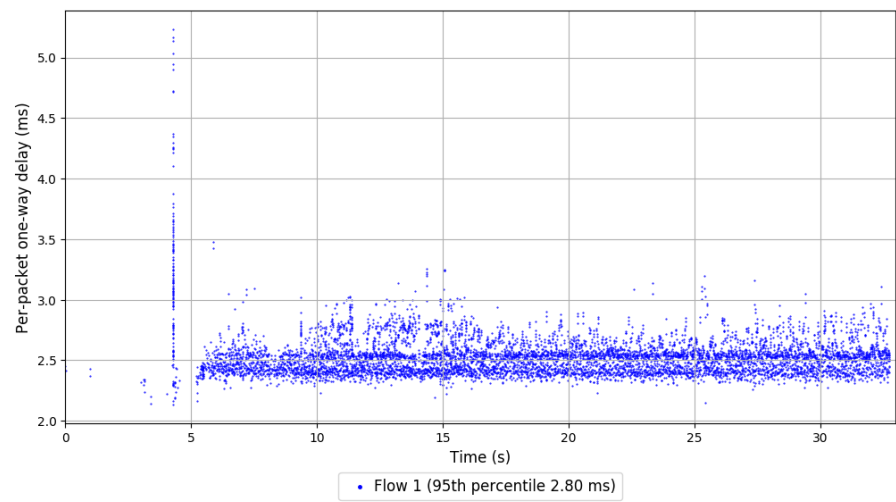
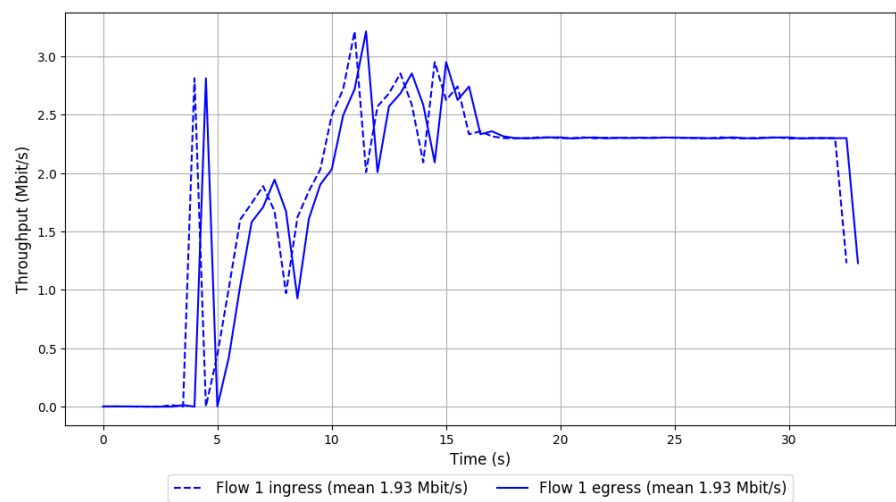Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2018-08-01 01:37:12
End at: 2018-08-01 01:37:42
Local clock offset: -3.674 ms
Remote clock offset: -2.671 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.804 ms
Loss rate: 0.00%
```

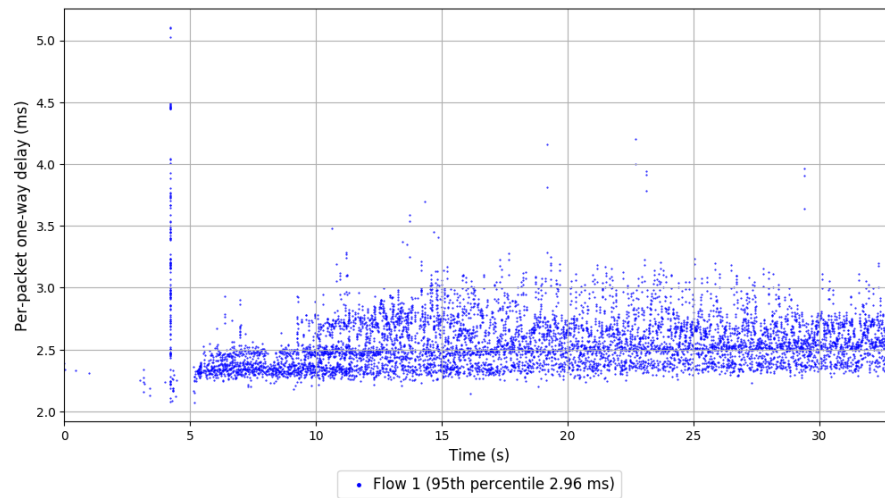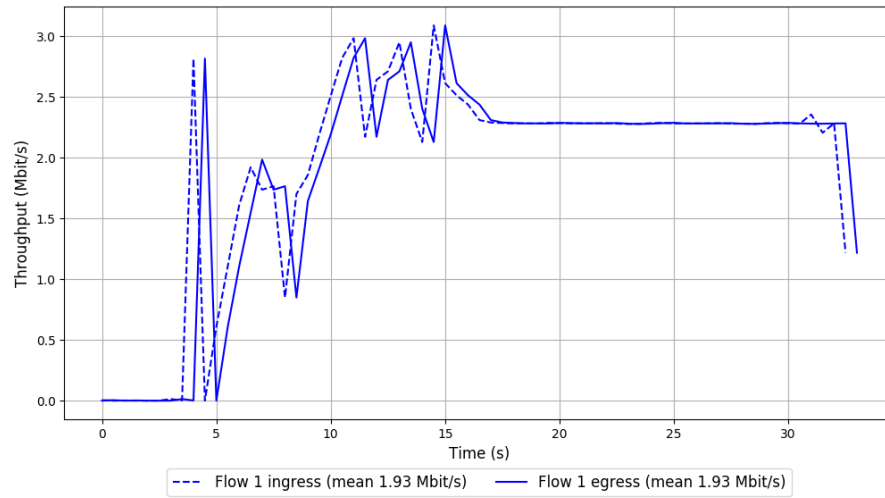## Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-08-01 01:56:14
End at: 2018-08-01 01:56:44
Local clock offset: -3.275 ms
Remote clock offset: -2.566 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.961 ms
Loss rate: 0.00%
```

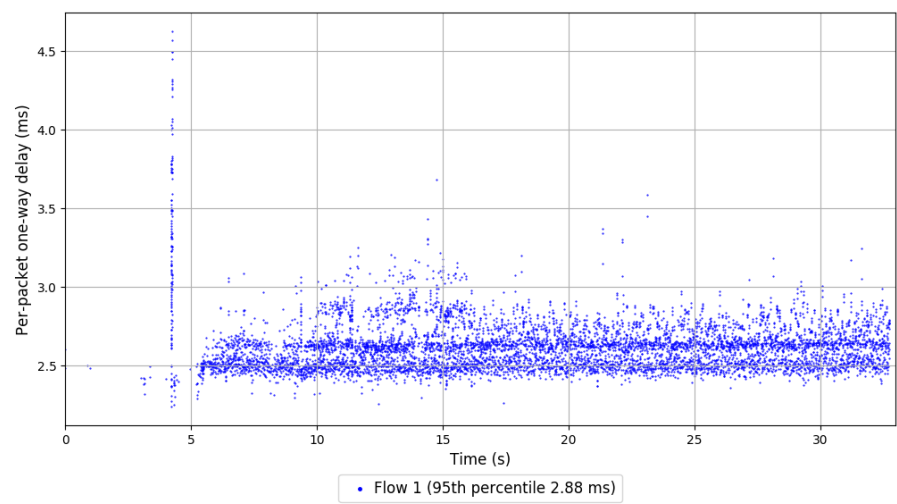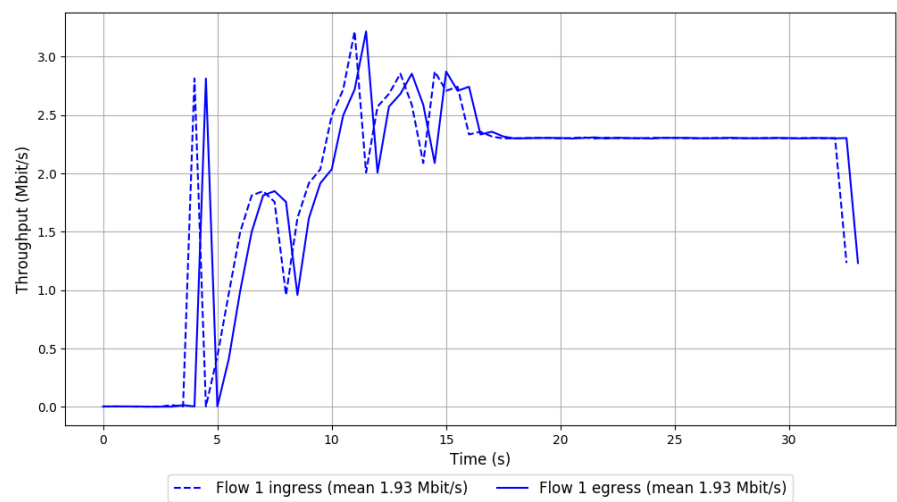Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-08-01 02:15:16
End at: 2018-08-01 02:15:46
Local clock offset: -2.104 ms
Remote clock offset: -2.626 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.884 ms
Loss rate: 0.00%
```

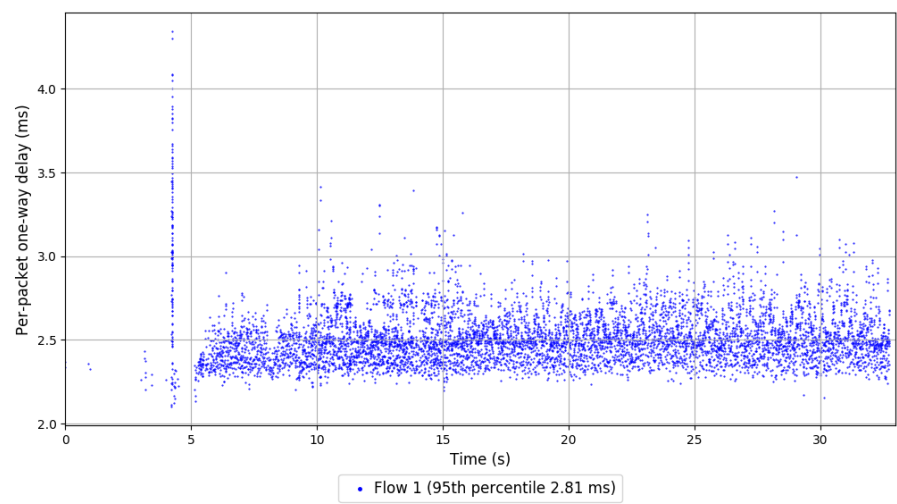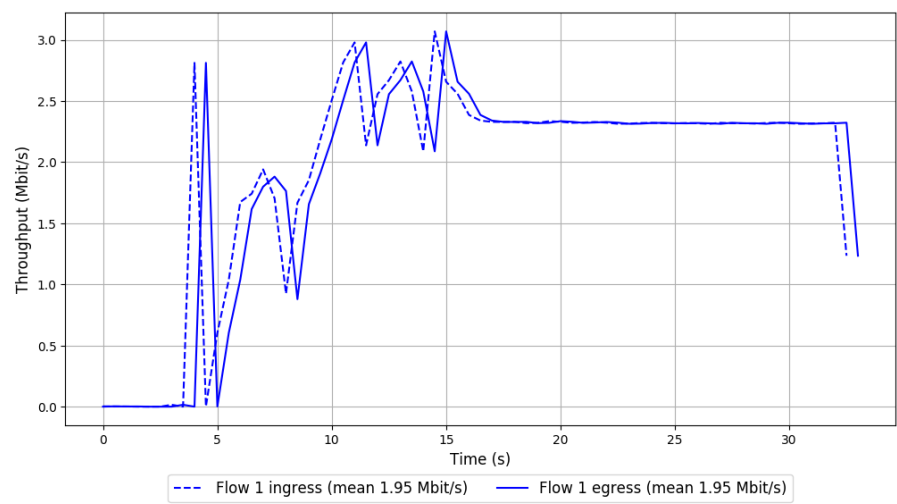## Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2018-08-01 02:34:23
End at: 2018-08-01 02:34:53
Local clock offset: -2.164 ms
Remote clock offset: -2.826 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 2.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 2.806 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.95 Mbit/s) --- Flow 1 egress (mean 1.95 Mbit/s)

• Flow 1 (95th percentile 2.81 ms)

```
Run 10: Statistics of WebRTC media

Start at: 2018-08-01 02:53:30
End at: 2018-08-01 02:54:00
Local clock offset: -2.441 ms
Remote clock offset: -3.018 ms


# Below is generated by plot.py at 2018-08-01 03:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 2.776 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link