Pantheon Report

Generated at 2018-03-27 09:47:35 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

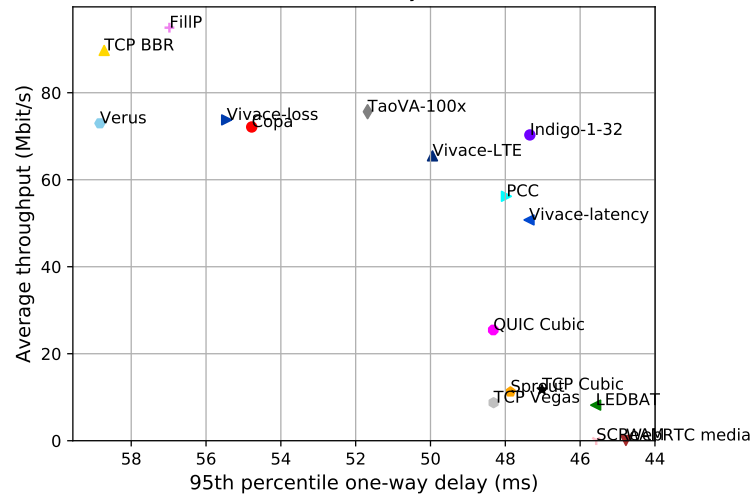Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (`fq`), and other schemes with the default Linux qdisc (`pfifo_fast`).

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

```
Git summary:
branch: master @ 503f51fe03f703a4c0a826a0792a4fead3e7d1b0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```
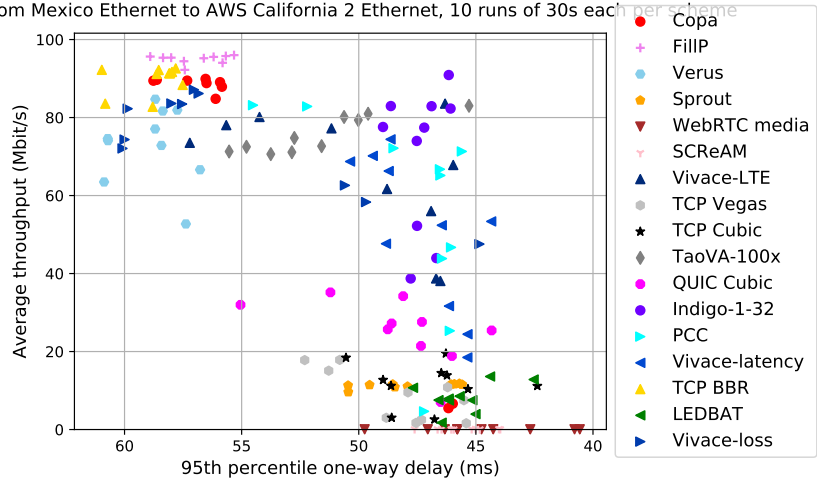
test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme (mean of all runs by scheme)

test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme

2

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	89.73	58.72	1.85
TCP Cubic	10	11.74	47.02	0.90
LEDBAT	10	8.19	45.58	1.23
PCC	10	56.19	47.97	1.29
QUIC Cubic	10	25.46	48.32	0.82
SCReAM	10	0.13	45.57	1.13
WebRTC media	10	0.06	44.78	2.18
Sprout	10	11.24	47.86	1.31
TaoVA-100x	10	75.64	51.68	1.70
TCP Vegas	10	8.75	48.31	1.16
Verus	10	72.97	58.84	2.09
Copa	10	72.12	54.78	1.54
FillP	10	94.96	56.98	1.71
Indigo-1-32	10	70.30	47.34	1.38
Vivace-latency	10	50.76	47.37	1.31
Vivace-loss	10	73.76	55.45	1.59
Vivace-LTE	10	65.49	49.95	1.44

```
Run 1: Statistics of TCP BBR

Start at: 2018-03-27 00:33:42
End at: 2018-03-27 00:34:12
Local clock offset: 4.048 ms
Remote clock offset: -1.751 ms


# Below is generated by plot.py at 2018-03-27 09:30:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 58.063 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 58.063 ms
Loss rate: 1.56%
```
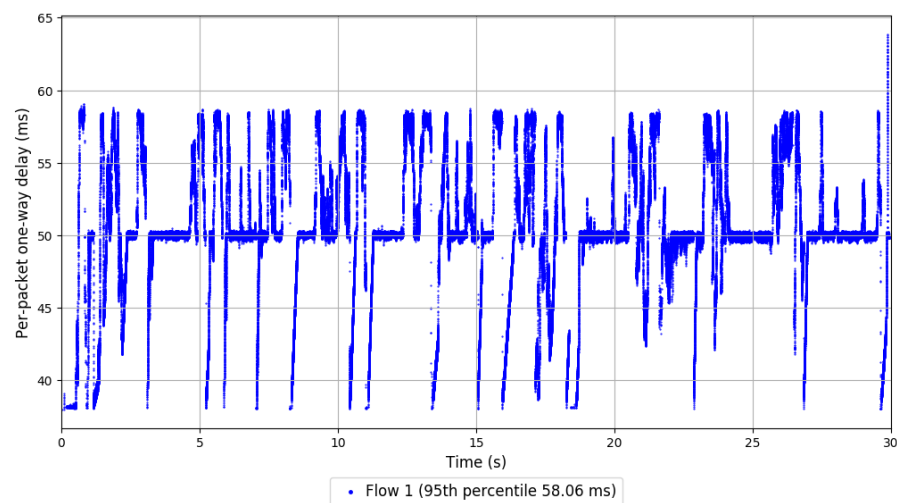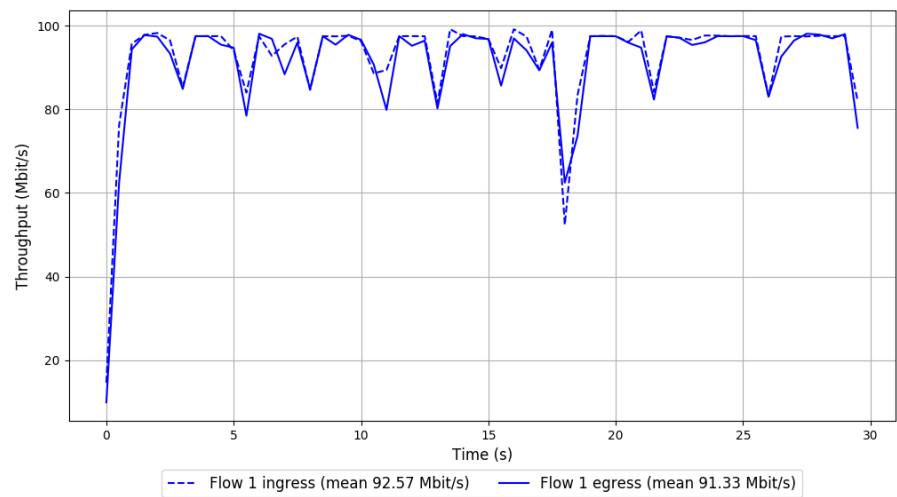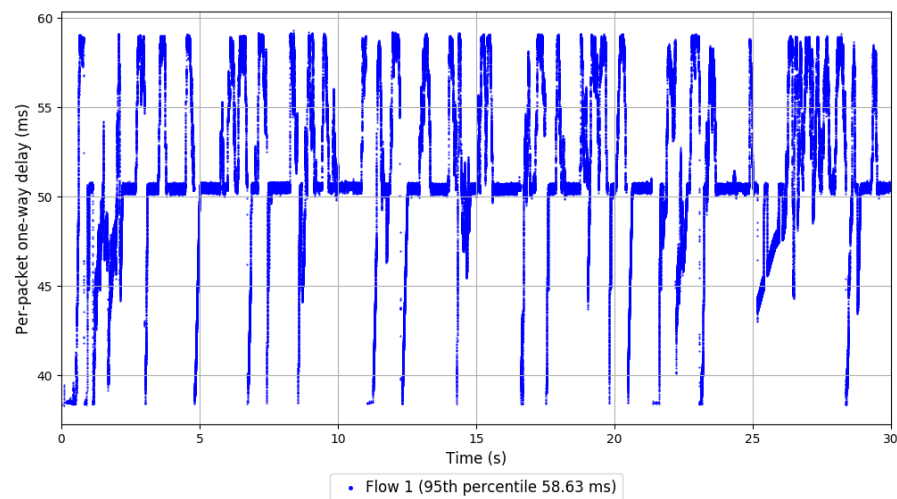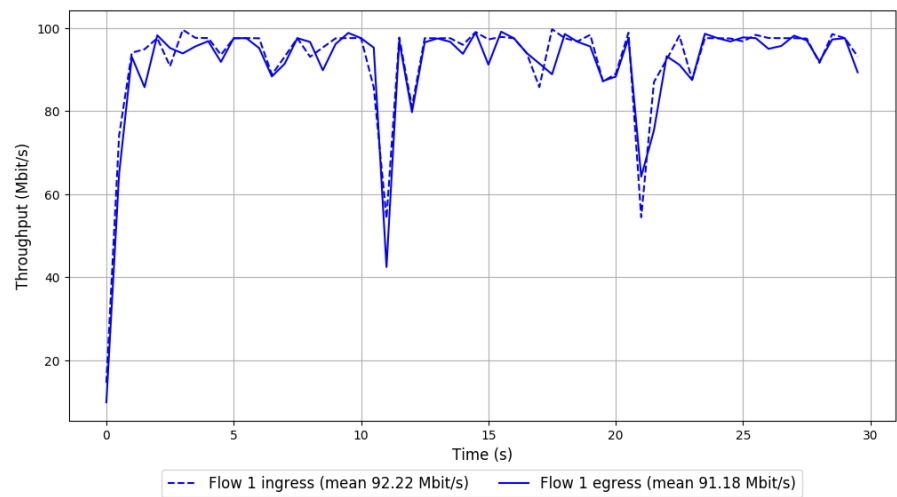
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2018-03-27 00:59:18
End at: 2018-03-27 00:59:48
Local clock offset: 6.263 ms
Remote clock offset: -1.864 ms


# Below is generated by plot.py at 2018-03-27 09:30:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 58.629 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 91.18 Mbit/s
95th percentile per-packet one-way delay: 58.629 ms
Loss rate: 1.35%
```

Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2018-03-27 01:25:28
End at: 2018-03-27 01:25:58
Local clock offset: 4.292 ms
Remote clock offset: -3.691 ms

# Below is generated by plot.py at 2018-03-27 09:30:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 60.971 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 60.971 ms
Loss rate: 1.11%
```
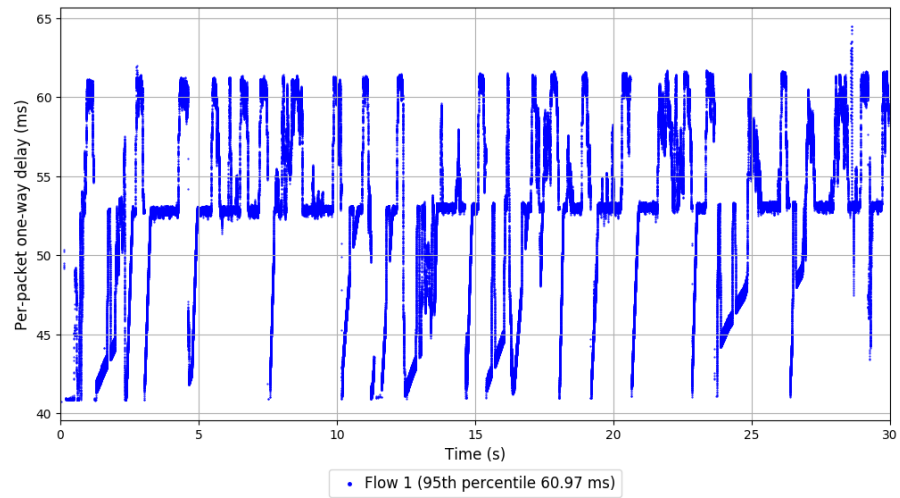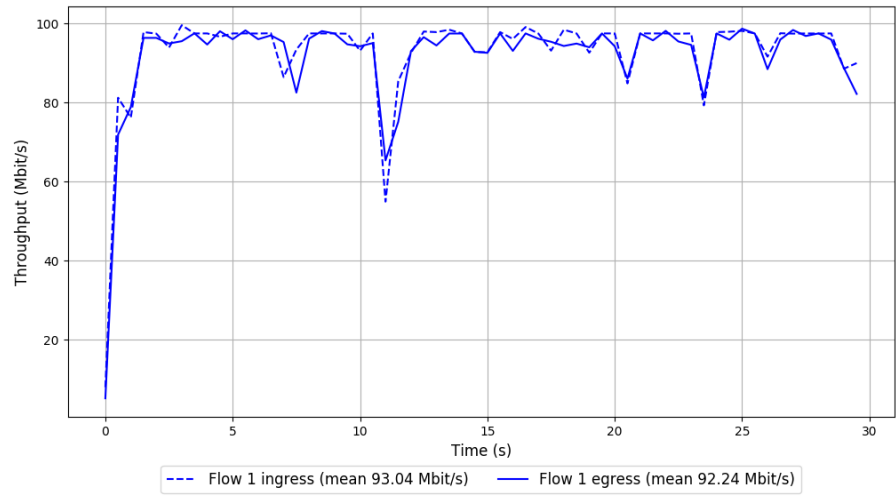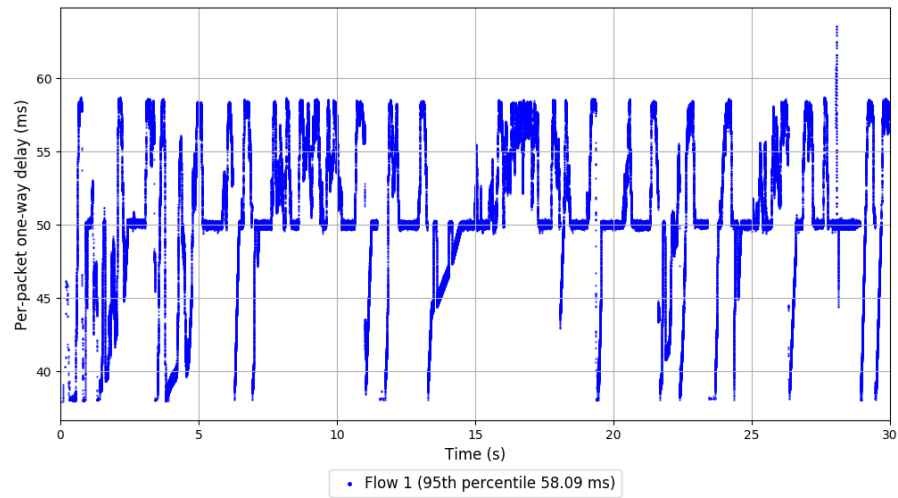
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.04 Mbit/s)   Flow 1 egress (mean 92.24 Mbit/s)
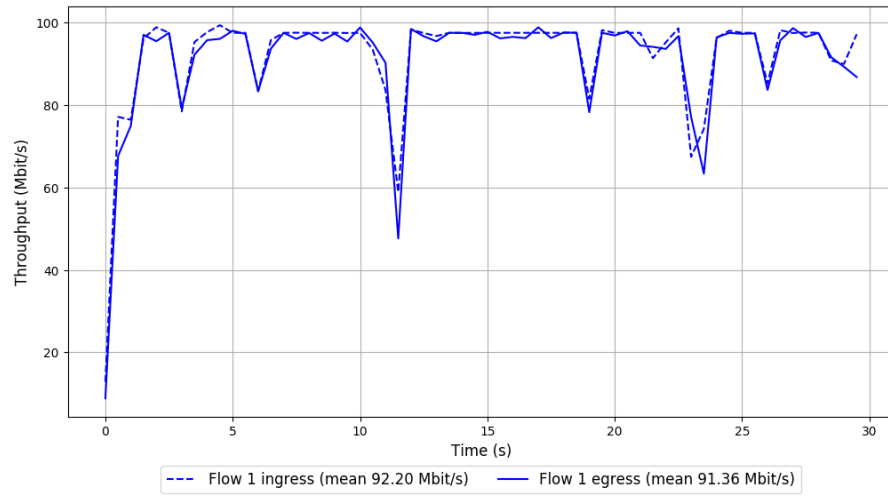

Flow 1 (95th percentile 60.97 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2018-03-27 01:51:36
End at: 2018-03-27 01:52:06
Local clock offset: -0.759 ms
Remote clock offset: -1.293 ms


# Below is generated by plot.py at 2018-03-27 09:30:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 58.092 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 58.092 ms
Loss rate: 1.16%
```
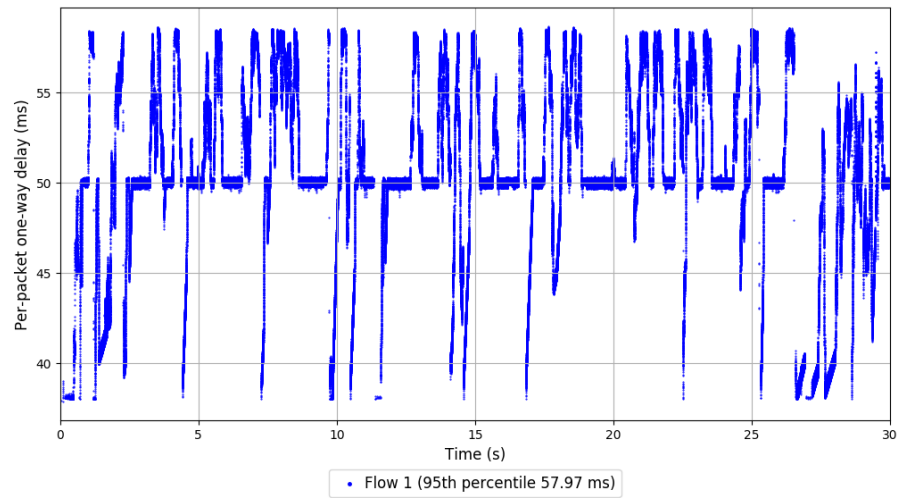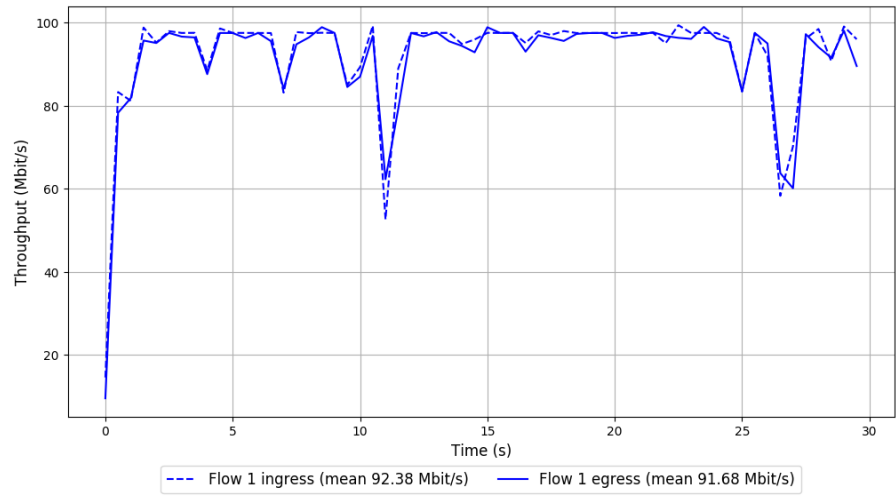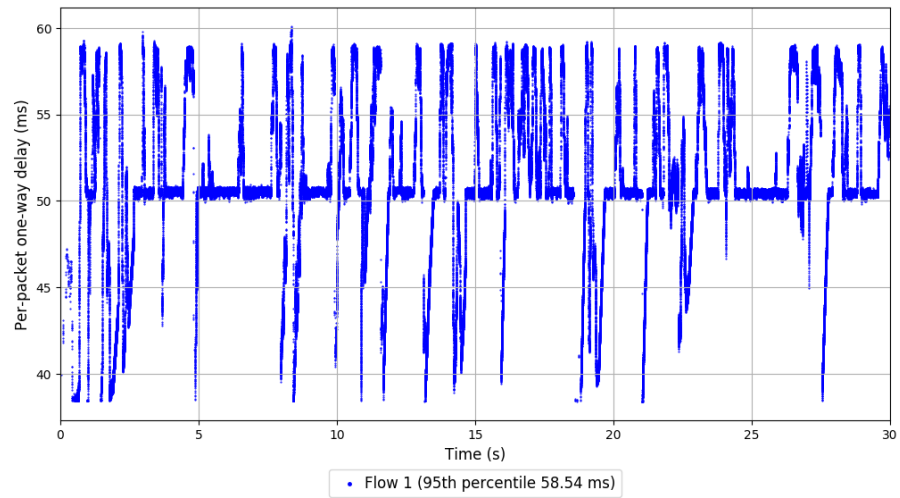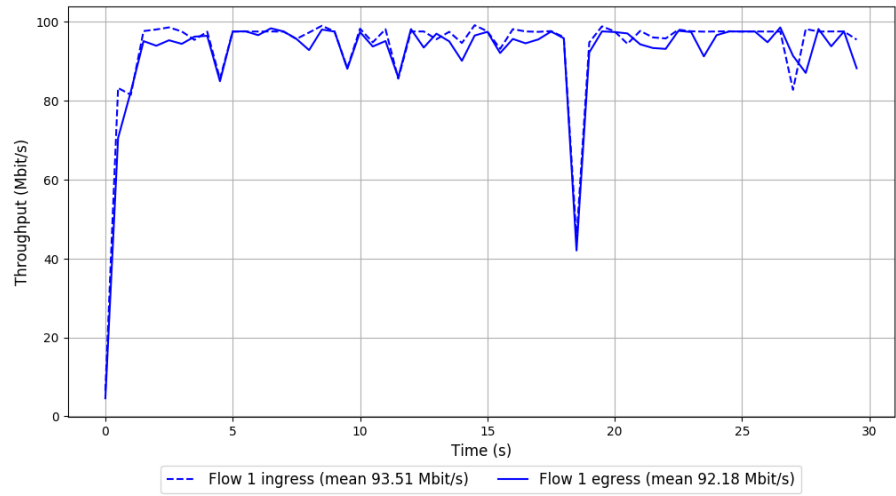
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 92.20 Mbit/s)   Flow 1 egress (mean 91.36 Mbit/s)

• Flow 1 (95th percentile 58.09 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2018-03-27 02:18:03
End at: 2018-03-27 02:18:33
Local clock offset: 0.1 ms
Remote clock offset: -1.461 ms


# Below is generated by plot.py at 2018-03-27 09:30:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 57.974 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 57.974 ms
Loss rate: 1.00%
```

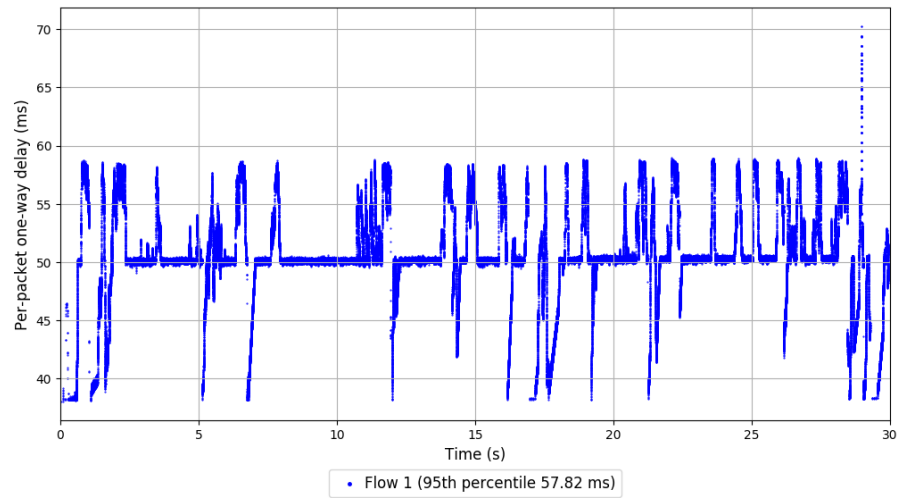Run 5: Report of TCP BBR — Data Link

```
Run 6: Statistics of TCP BBR

Start at: 2018-03-27 02:44:09
End at: 2018-03-27 02:44:39
Local clock offset: 5.646 ms
Remote clock offset: -2.149 ms


# Below is generated by plot.py at 2018-03-27 09:30:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 58.542 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 58.542 ms
Loss rate: 1.67%
```

Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.51 Mbit/s) --- Flow 1 egress (mean 92.18 Mbit/s)

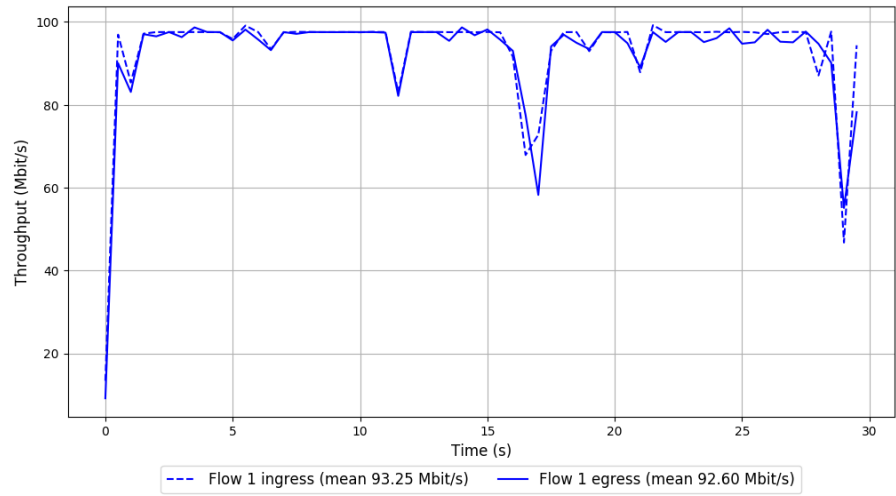Flow 1 (95th percentile 58.54 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-03-27 03:10:47
End at: 2018-03-27 03:11:17
Local clock offset: 5.013 ms
Remote clock offset: -1.768 ms


# Below is generated by plot.py at 2018-03-27 09:30:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 57.816 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 92.60 Mbit/s
95th percentile per-packet one-way delay: 57.816 ms
Loss rate: 0.94%
```
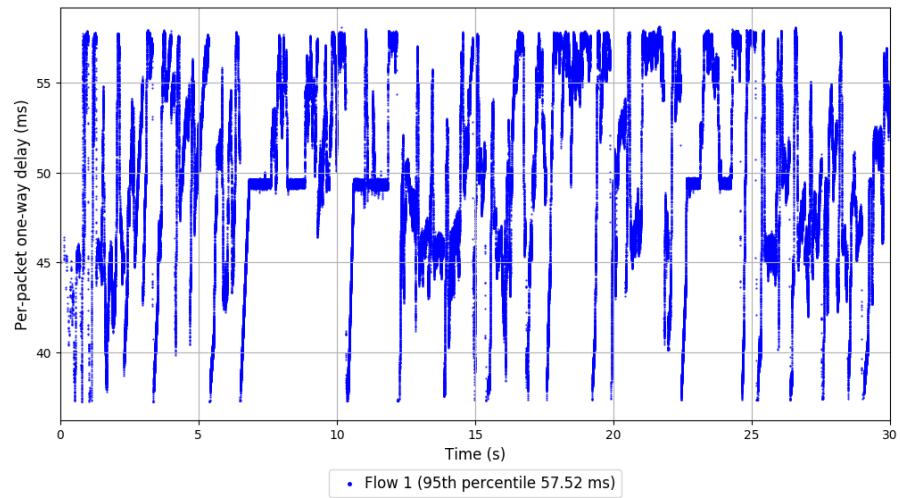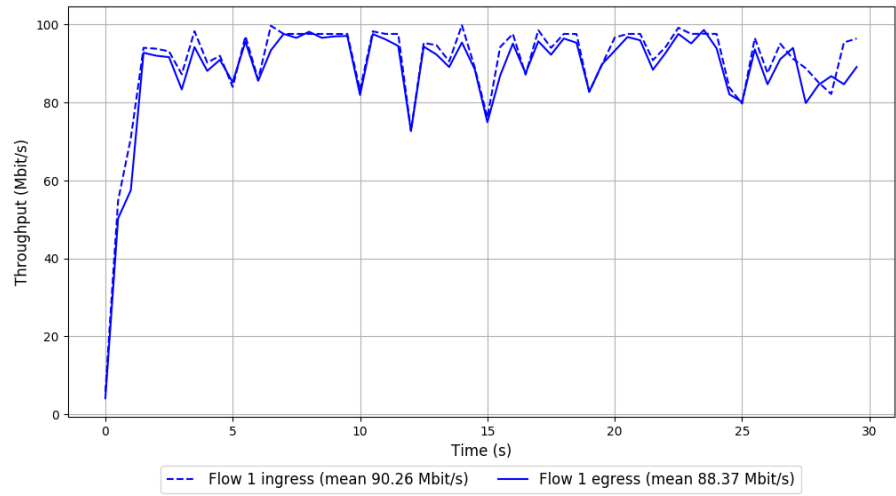
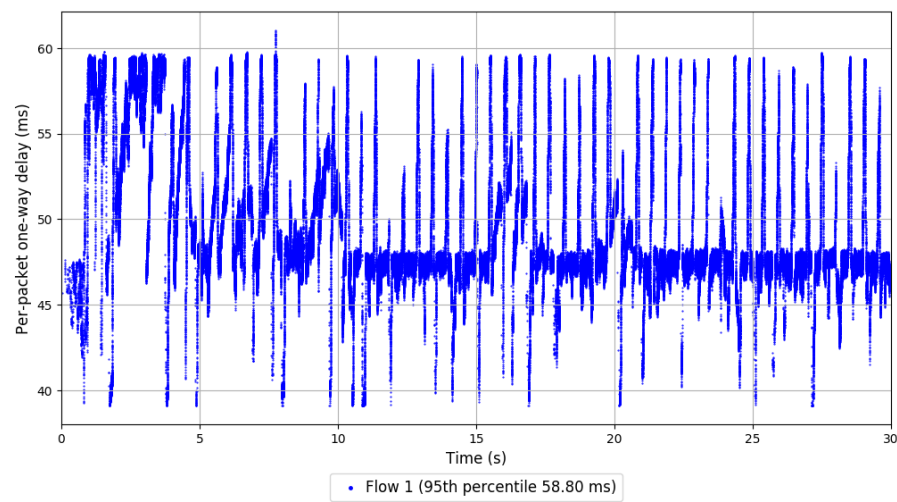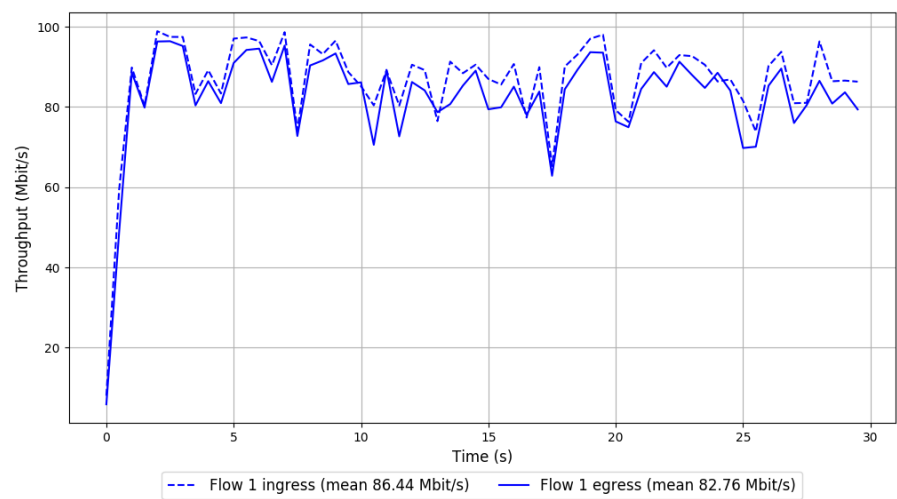Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.25 Mbit/s)   Flow 1 egress (mean 92.60 Mbit/s)

Flow 1 (95th percentile 57.82 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-03-27 03:37:42
End at: 2018-03-27 03:38:12
Local clock offset: 3.014 ms
Remote clock offset: -2.198 ms


# Below is generated by plot.py at 2018-03-27 09:30:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 57.519 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 57.519 ms
Loss rate: 2.35%
```

Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 90.26 Mbit/s)   —— Flow 1 egress (mean 88.37 Mbit/s)

• Flow 1 (95th percentile 57.52 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-03-27 04:06:17
End at: 2018-03-27 04:06:47
Local clock offset: -0.436 ms
Remote clock offset: -3.389 ms


# Below is generated by plot.py at 2018-03-27 09:32:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.76 Mbit/s
95th percentile per-packet one-way delay: 58.798 ms
Loss rate: 4.49%
-- Flow 1:
Average throughput: 82.76 Mbit/s
95th percentile per-packet one-way delay: 58.798 ms
Loss rate: 4.49%
```

Run 9: Report of TCP BBR — Data Link

```
Run 10: Statistics of TCP BBR

Start at: 2018-03-27 04:37:43
End at: 2018-03-27 04:38:13
Local clock offset: -0.311 ms
Remote clock offset: -3.736 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.56 Mbit/s
95th percentile per-packet one-way delay: 60.823 ms
Loss rate: 2.85%
-- Flow 1:
Average throughput: 83.56 Mbit/s
95th percentile per-packet one-way delay: 60.823 ms
Loss rate: 2.85%
```
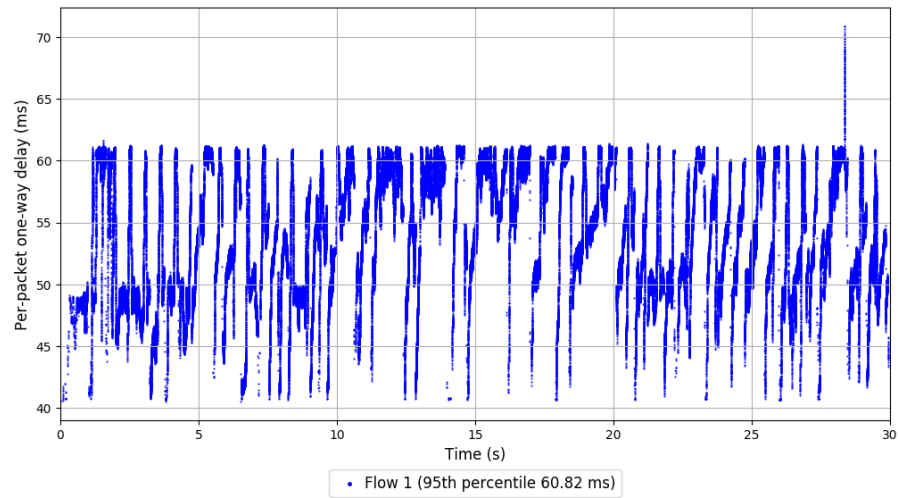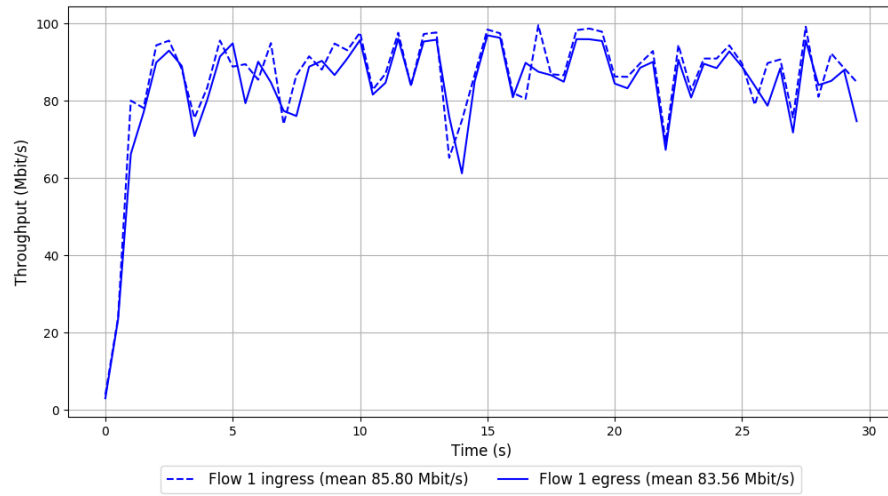
Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2018-03-27 00:53:54
End at: 2018-03-27 00:54:24
Local clock offset: 5.784 ms
Remote clock offset: -4.052 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.22 Mbit/s
95th percentile per-packet one-way delay: 48.623 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 11.22 Mbit/s
95th percentile per-packet one-way delay: 48.623 ms
Loss rate: 0.80%
```
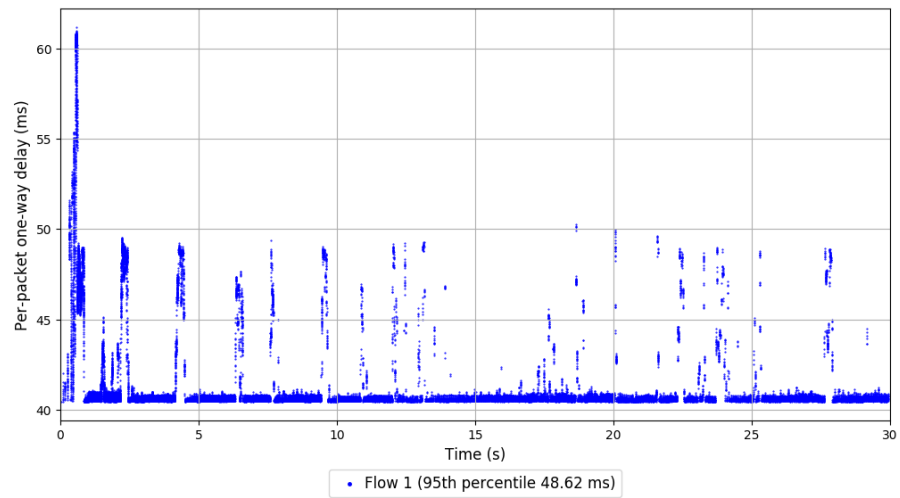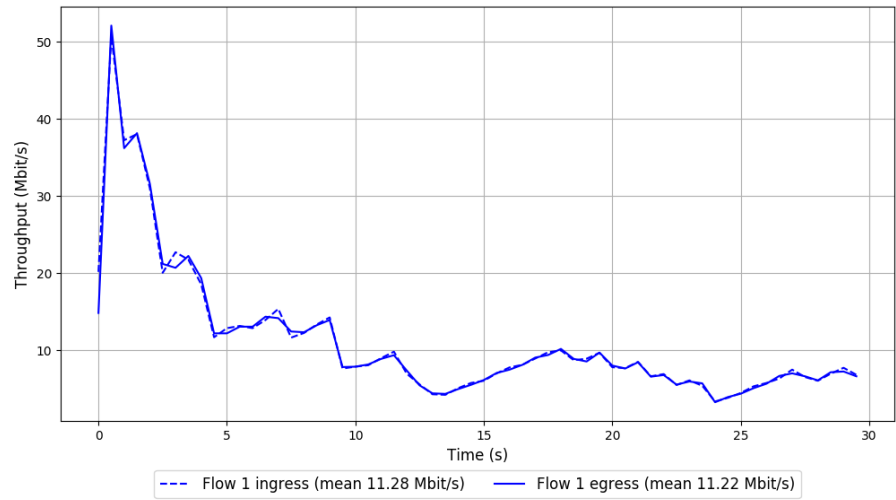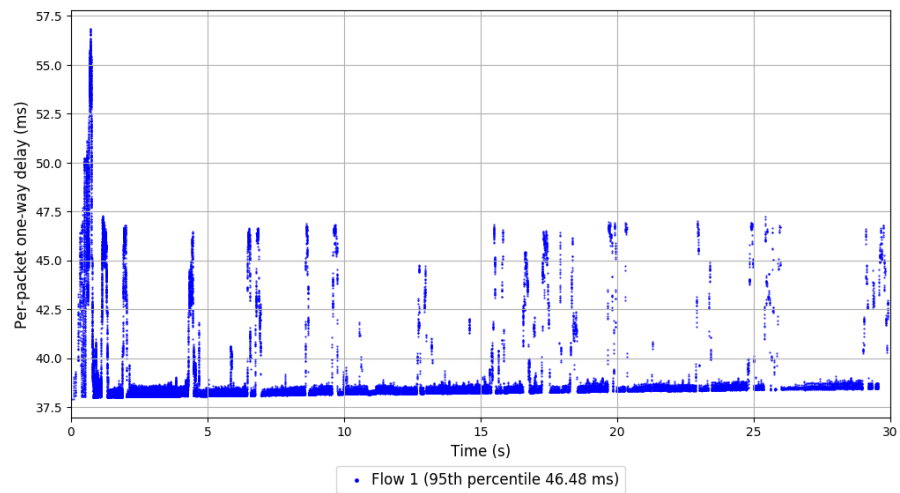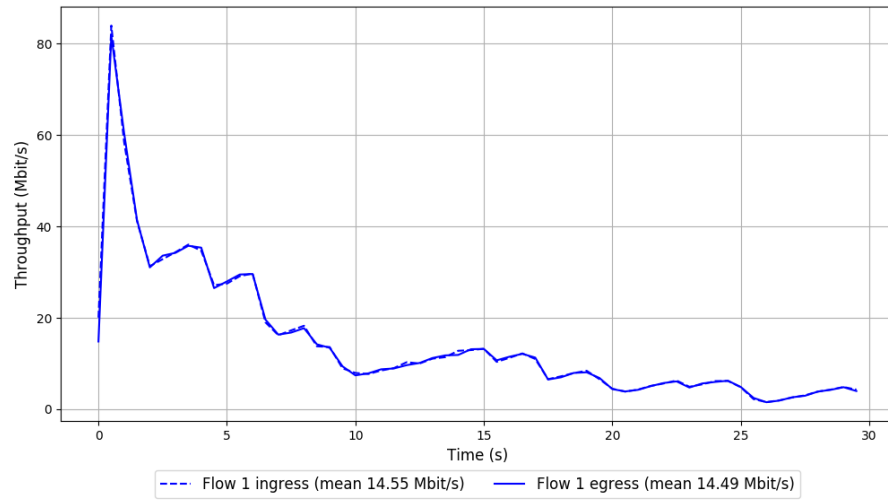
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2018-03-27 01:19:59
End at: 2018-03-27 01:20:29
Local clock offset: 7.502 ms
Remote clock offset: -1.16 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.49 Mbit/s
95th percentile per-packet one-way delay: 46.476 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 14.49 Mbit/s
95th percentile per-packet one-way delay: 46.476 ms
Loss rate: 0.58%
```

Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 14.55 Mbit/s)   Flow 1 egress (mean 14.49 Mbit/s)

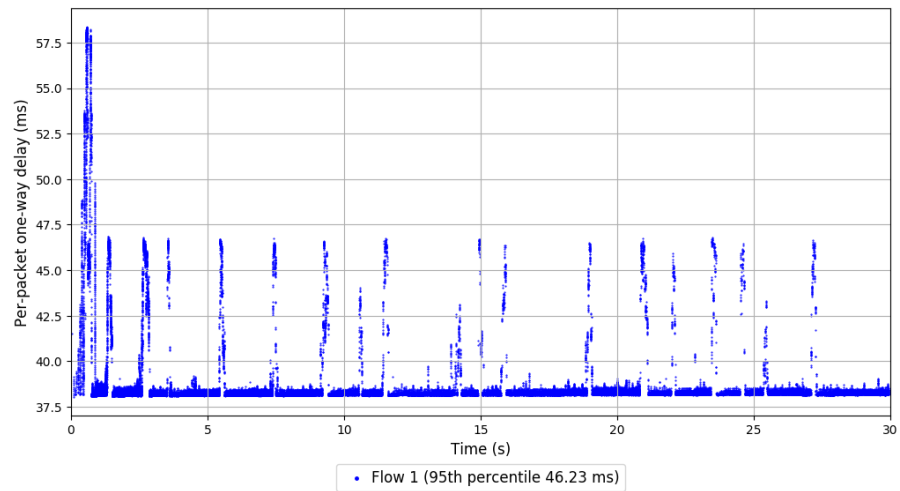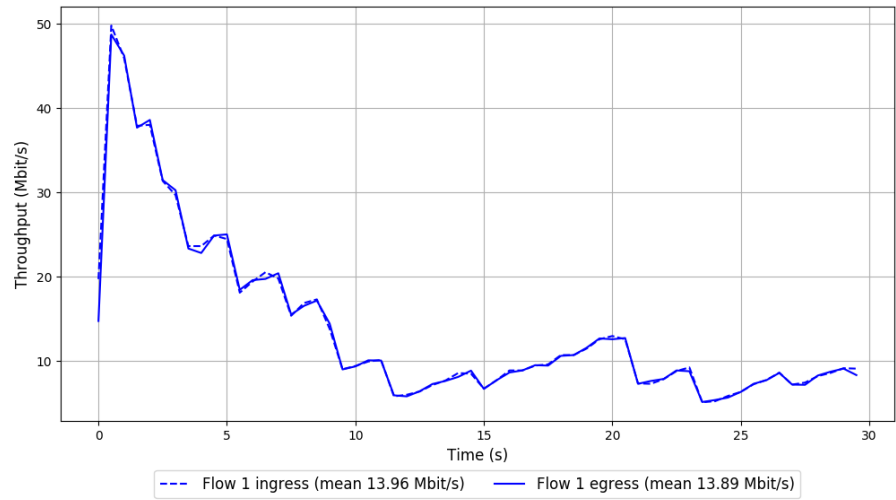Flow 1 (95th percentile 46.48 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2018-03-27 01:46:16
End at: 2018-03-27 01:46:46
Local clock offset: -0.293 ms
Remote clock offset: -1.295 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.89 Mbit/s
95th percentile per-packet one-way delay: 46.233 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 13.89 Mbit/s
95th percentile per-packet one-way delay: 46.233 ms
Loss rate: 0.73%
```

Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 13.96 Mbit/s) — — — Flow 1 egress (mean 13.89 Mbit/s)
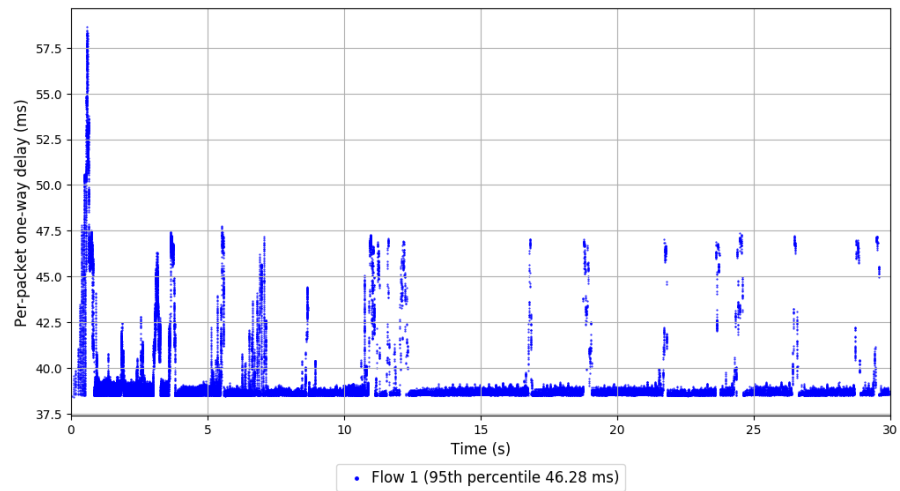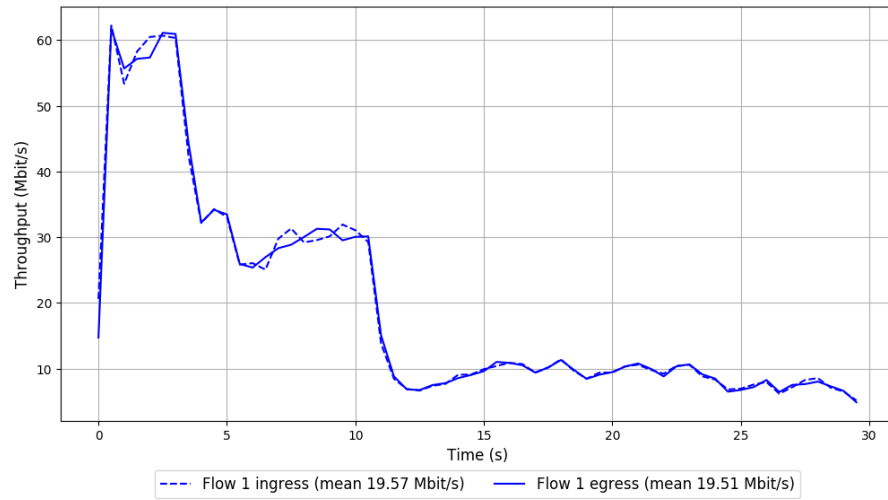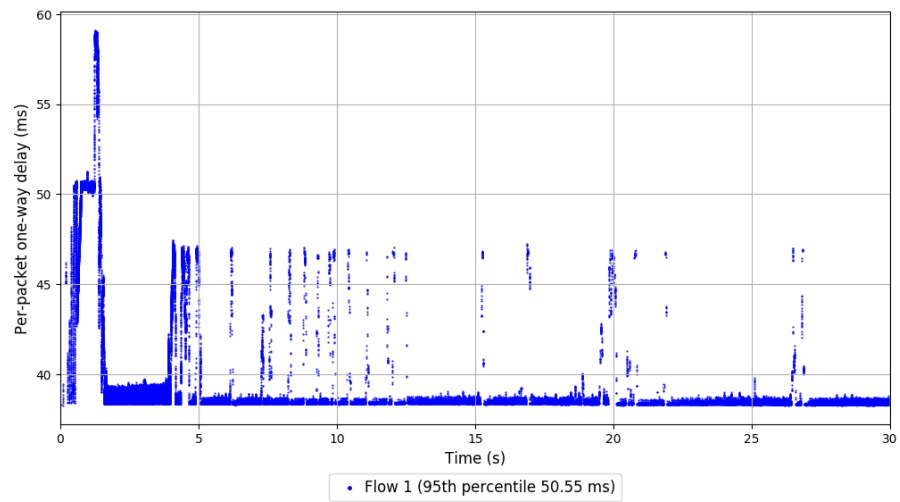

Flow 1 (95th percentile 46.23 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2018-03-27 02:12:47
End at: 2018-03-27 02:13:17
Local clock offset: 0.028 ms
Remote clock offset: -1.877 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.51 Mbit/s
95th percentile per-packet one-way delay: 46.280 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 19.51 Mbit/s
95th percentile per-packet one-way delay: 46.280 ms
Loss rate: 0.51%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 19.57 Mbit/s)   Flow 1 egress (mean 19.51 Mbit/s)

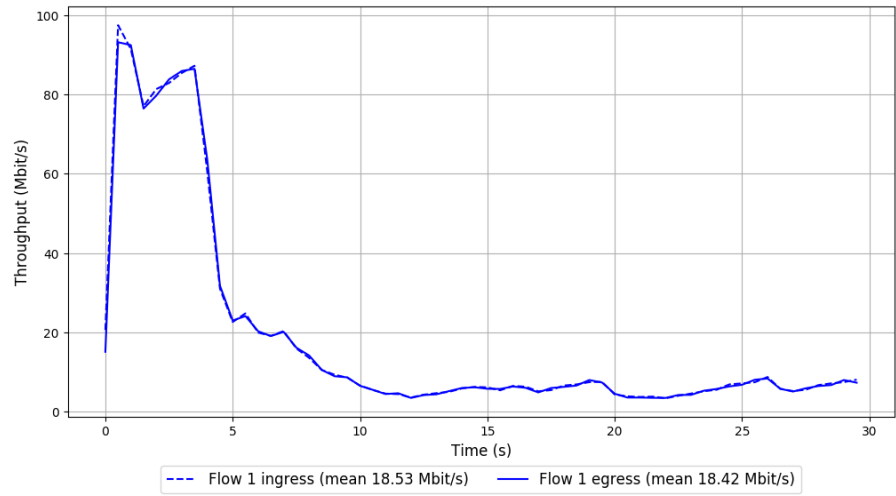Flow 1 (95th percentile 46.28 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2018-03-27 02:38:50
End at: 2018-03-27 02:39:20
Local clock offset: 4.509 ms
Remote clock offset: -2.103 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 50.545 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 18.42 Mbit/s
95th percentile per-packet one-way delay: 50.545 ms
Loss rate: 0.78%
```
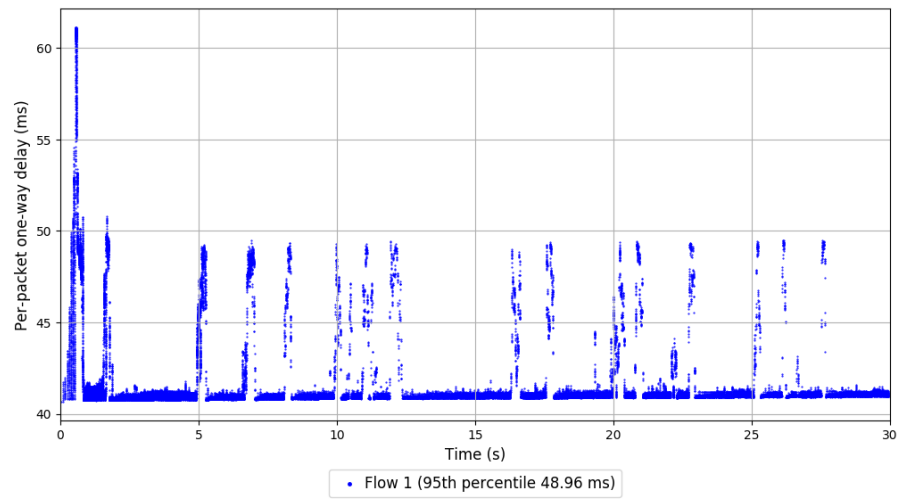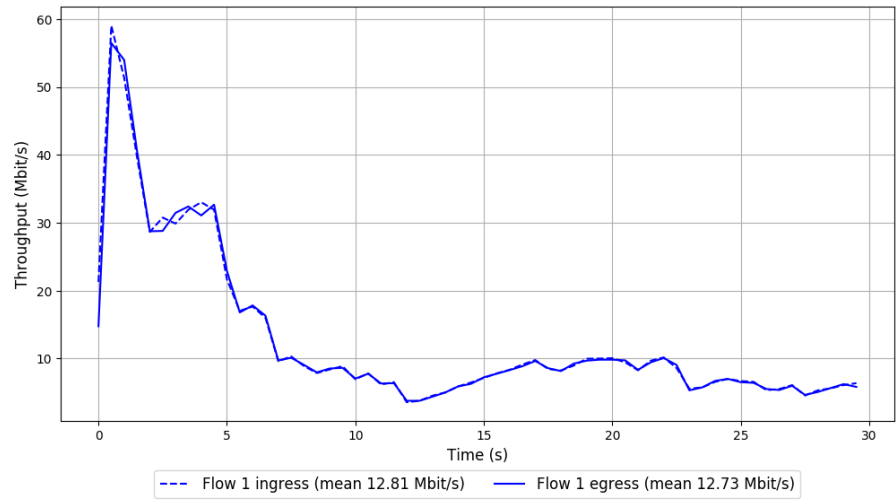
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 18.53 Mbit/s)   Flow 1 egress (mean 18.42 Mbit/s)
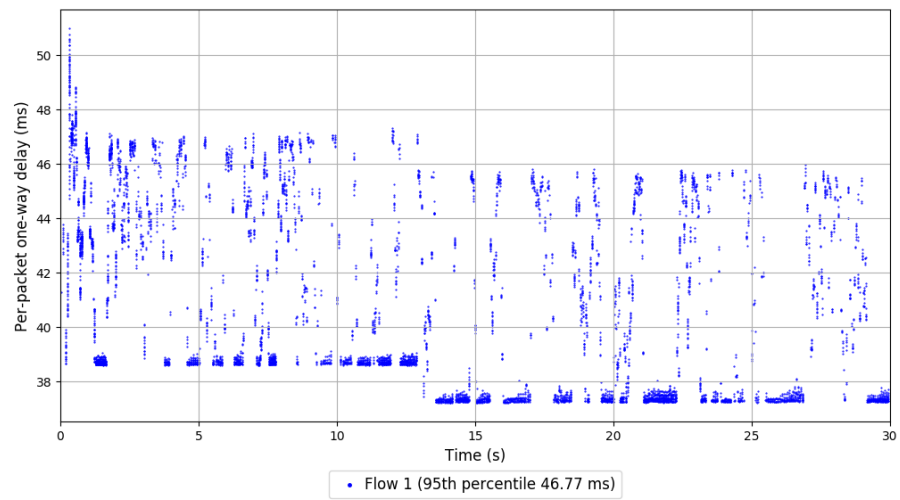

Flow 1 (95th percentile 50.55 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-03-27 03:05:26
End at: 2018-03-27 03:05:56
Local clock offset: 6.539 ms
Remote clock offset: -4.34 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 48.962 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 12.73 Mbit/s
95th percentile per-packet one-way delay: 48.962 ms
Loss rate: 0.82%
```
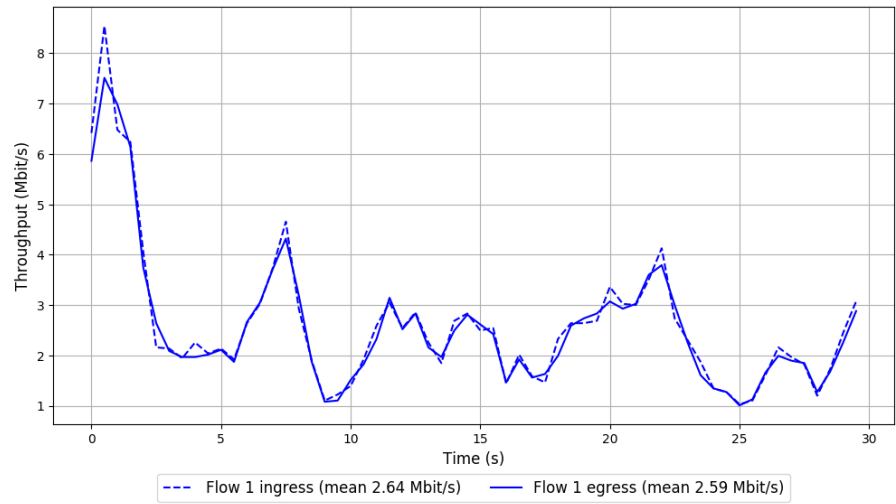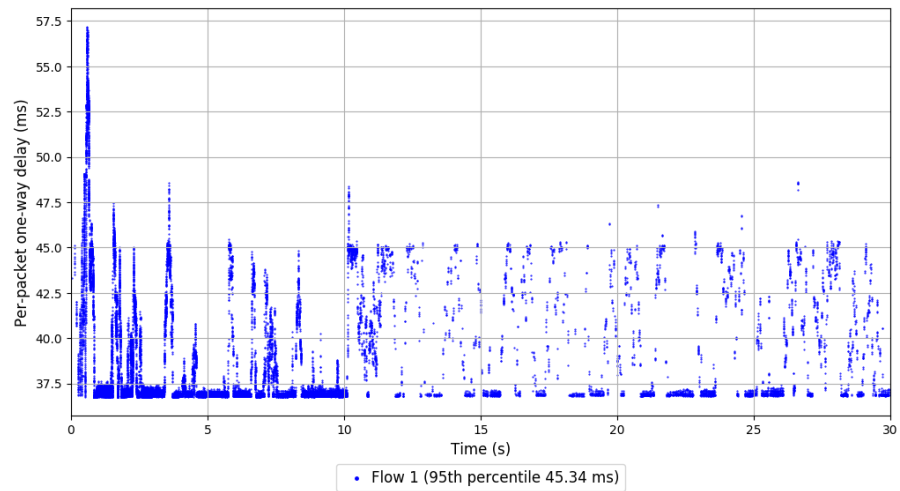
Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: 2018-03-27 03:32:16
End at: 2018-03-27 03:32:46
Local clock offset: 3.445 ms
Remote clock offset: -2.163 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 46.768 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 46.768 ms
Loss rate: 2.07%
```

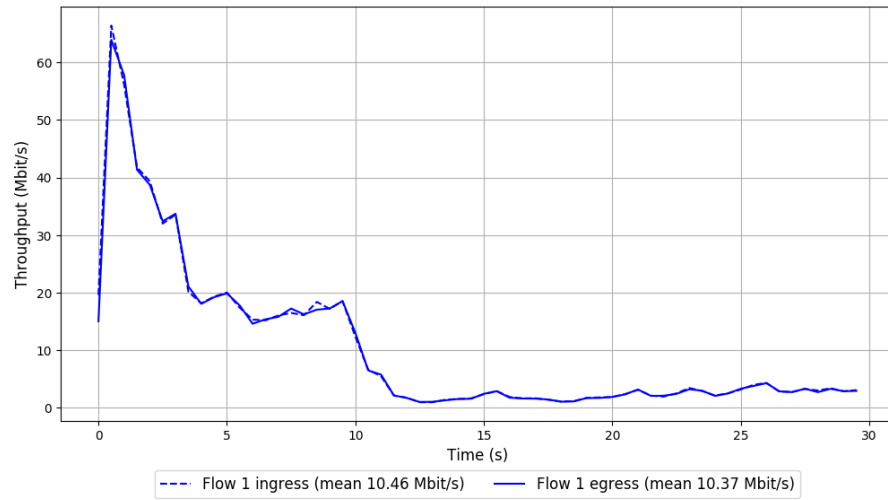Run 7: Report of TCP Cubic — Data Link

```
Run 8: Statistics of TCP Cubic

Start at: 2018-03-27 04:00:50
End at: 2018-03-27 04:01:20
Local clock offset: -0.115 ms
Remote clock offset: -0.914 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 45.337 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 45.337 ms
Loss rate: 1.03%
```

Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 10.46 Mbit/s) --- Flow 1 egress (mean 10.37 Mbit/s)

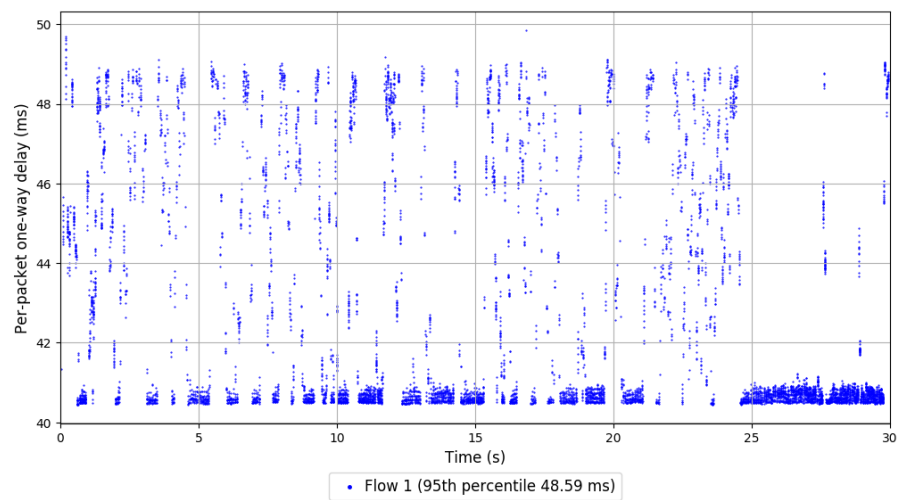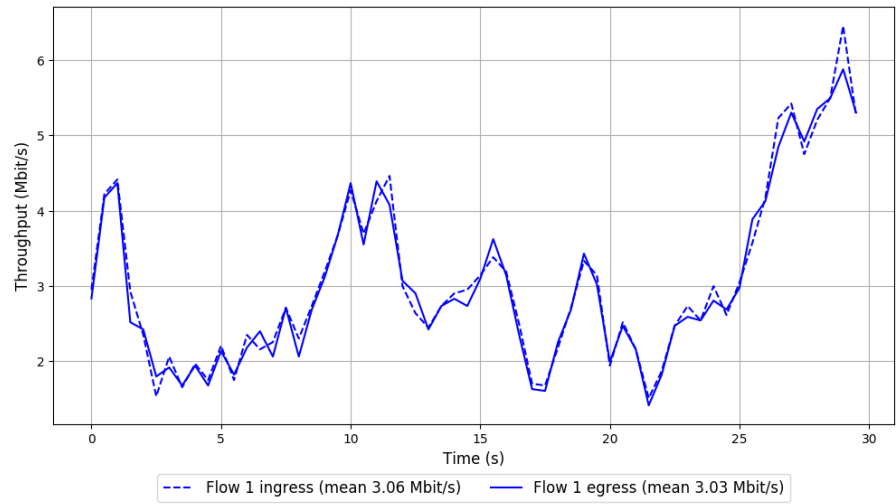
Flow 1 (95th percentile 45.34 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2018-03-27 04:32:24
End at: 2018-03-27 04:32:54
Local clock offset: -0.344 ms
Remote clock offset: -3.654 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 48.595 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 48.595 ms
Loss rate: 1.19%
```
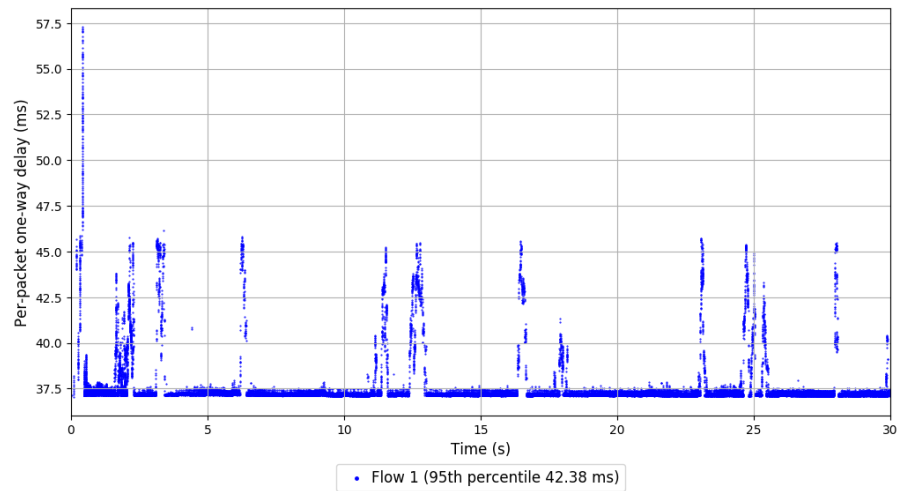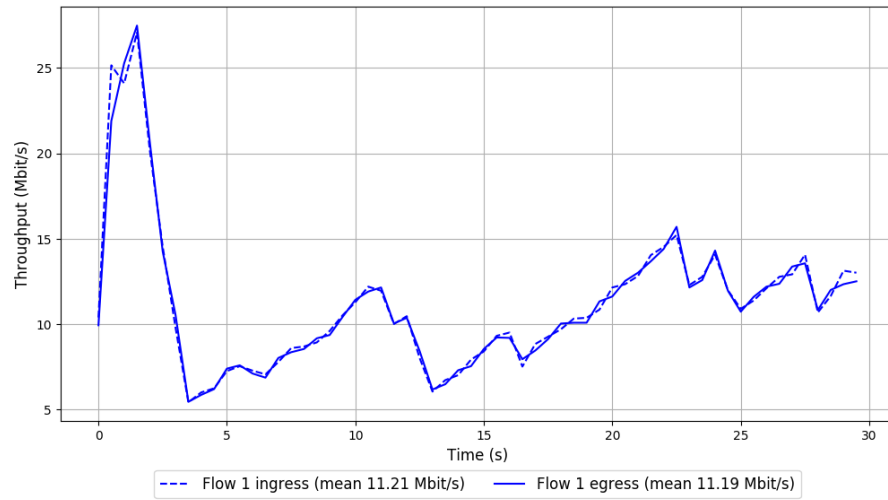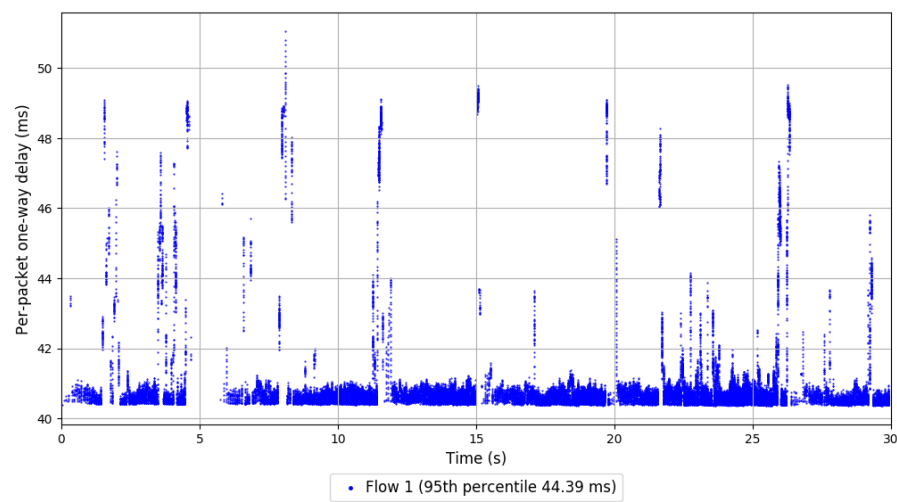
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 3.06 Mbit/s)   Flow 1 egress (mean 3.03 Mbit/s)

• Flow 1 (95th percentile 48.59 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-03-27 05:00:15
End at: 2018-03-27 05:00:45
Local clock offset: 0.253 ms
Remote clock offset: -3.881 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 42.377 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 11.19 Mbit/s
95th percentile per-packet one-way delay: 42.377 ms
Loss rate: 0.45%
```
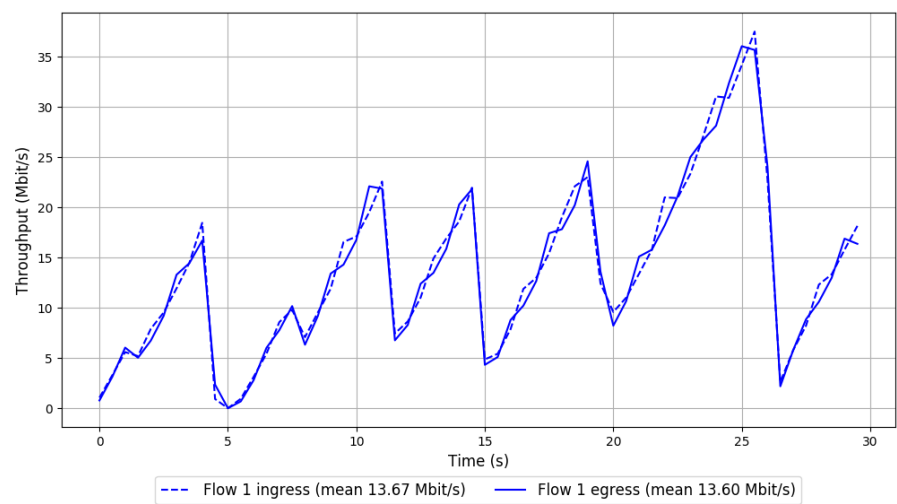
Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2018-03-27 00:48:22
End at: 2018-03-27 00:48:52
Local clock offset: 5.069 ms
Remote clock offset: -4.294 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 44.394 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 44.394 ms
Loss rate: 0.76%
```

Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 13.67 Mbit/s)   Flow 1 egress (mean 13.60 Mbit/s)

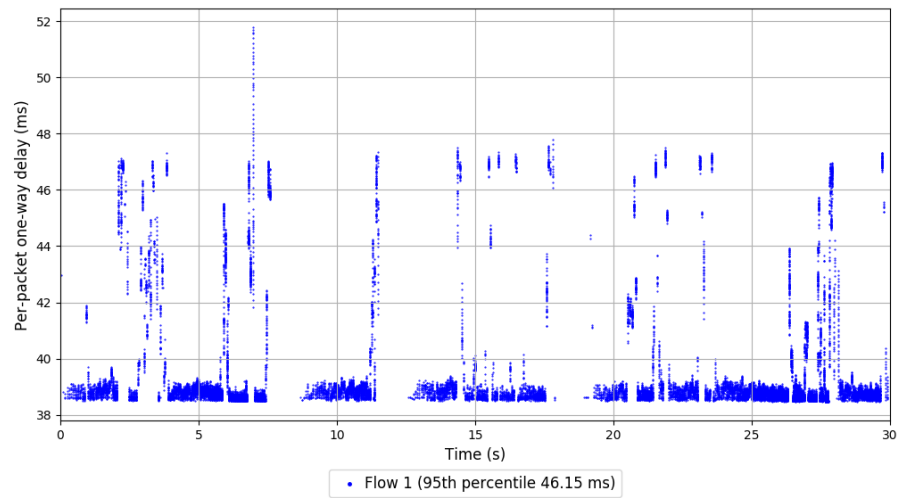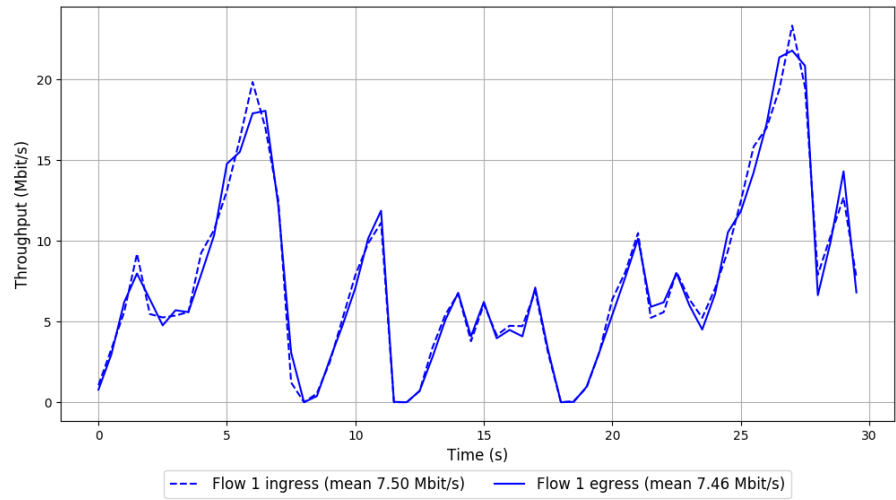Flow 1 (95th percentile 44.39 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2018-03-27 01:14:29
End at: 2018-03-27 01:14:59
Local clock offset: 7.257 ms
Remote clock offset: -1.698 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 46.148 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 46.148 ms
Loss rate: 0.83%
```

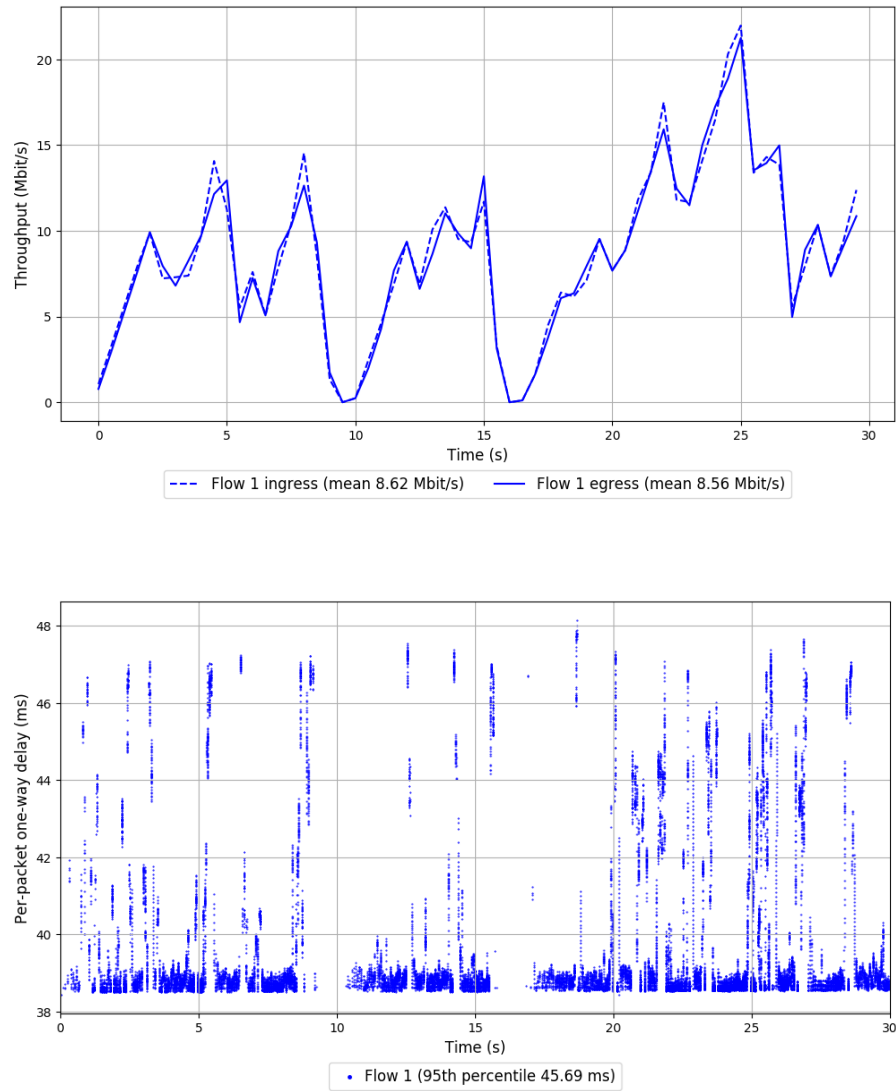Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2018-03-27 01:40:36
End at: 2018-03-27 01:41:06
Local clock offset: 0.304 ms
Remote clock offset: -1.672 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 45.694 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 8.56 Mbit/s
95th percentile per-packet one-way delay: 45.694 ms
Loss rate: 0.98%
```

Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2018-03-27 02:07:07
End at: 2018-03-27 02:07:37
Local clock offset: 0.033 ms
Remote clock offset: -1.91 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 46.597 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 7.55 Mbit/s
95th percentile per-packet one-way delay: 46.597 ms
Loss rate: 1.32%
```
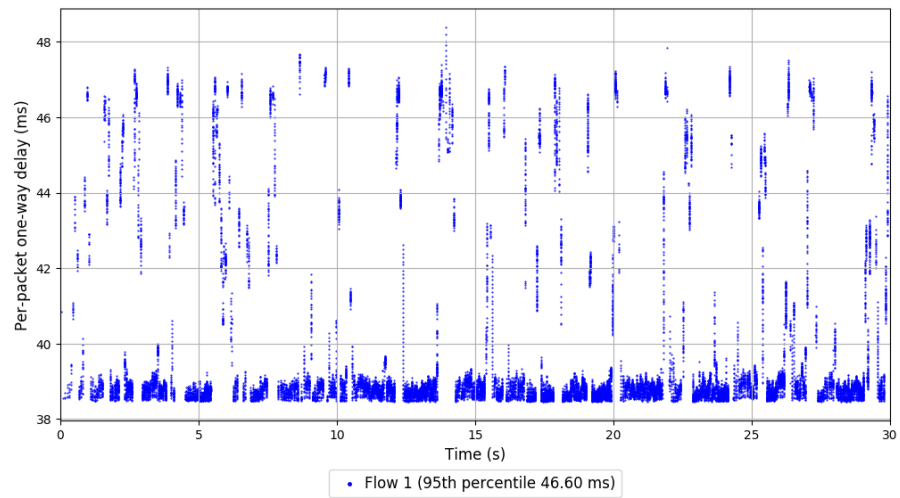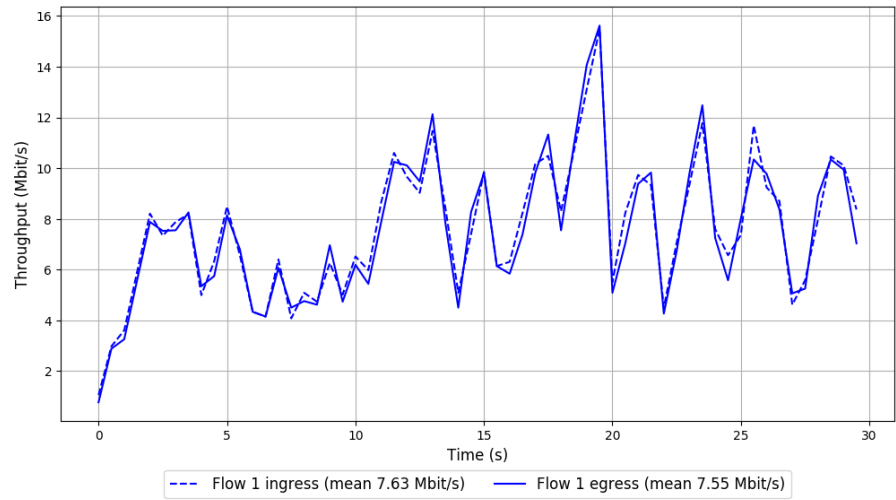
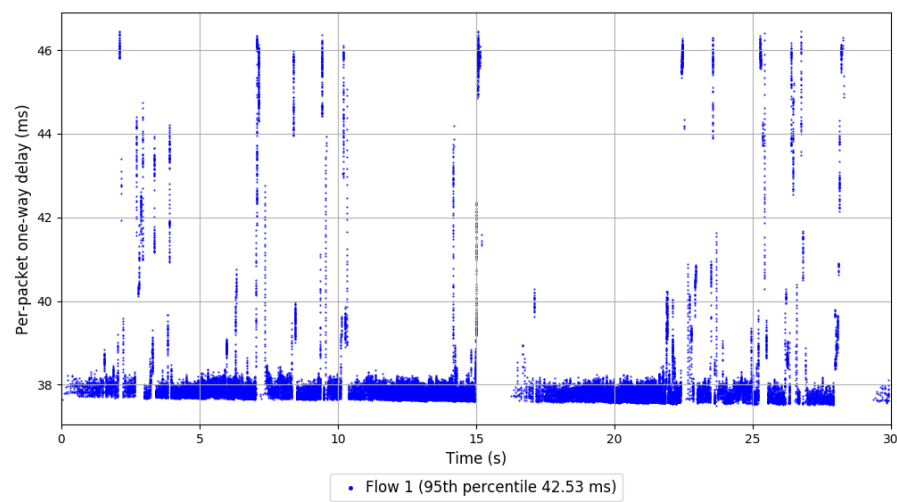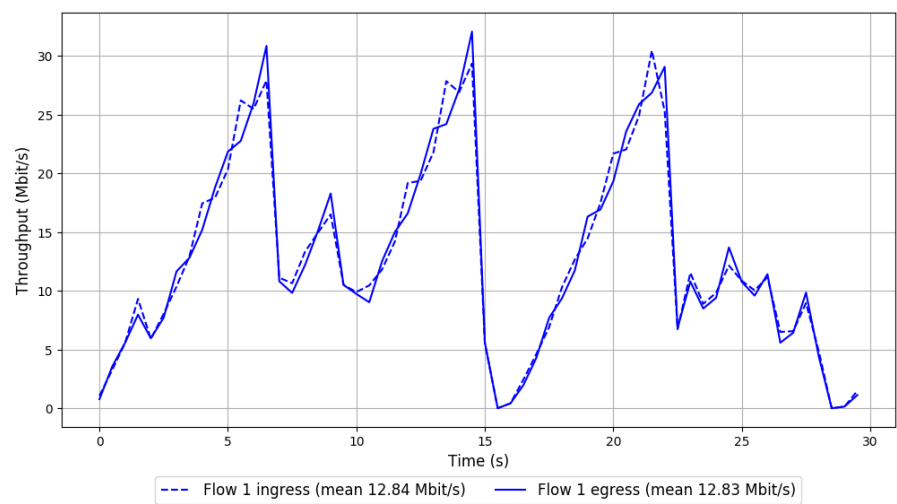Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2018-03-27 02:33:14
End at: 2018-03-27 02:33:44
Local clock offset: 2.547 ms
Remote clock offset: -1.603 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.83 Mbit/s
95th percentile per-packet one-way delay: 42.535 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 12.83 Mbit/s
95th percentile per-packet one-way delay: 42.535 ms
Loss rate: 0.36%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 12.84 Mbit/s) --- Flow 1 egress (mean 12.83 Mbit/s)

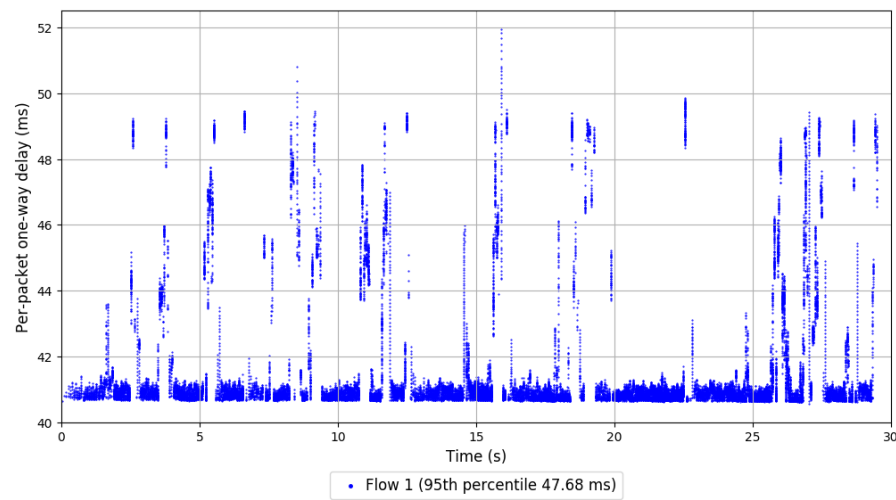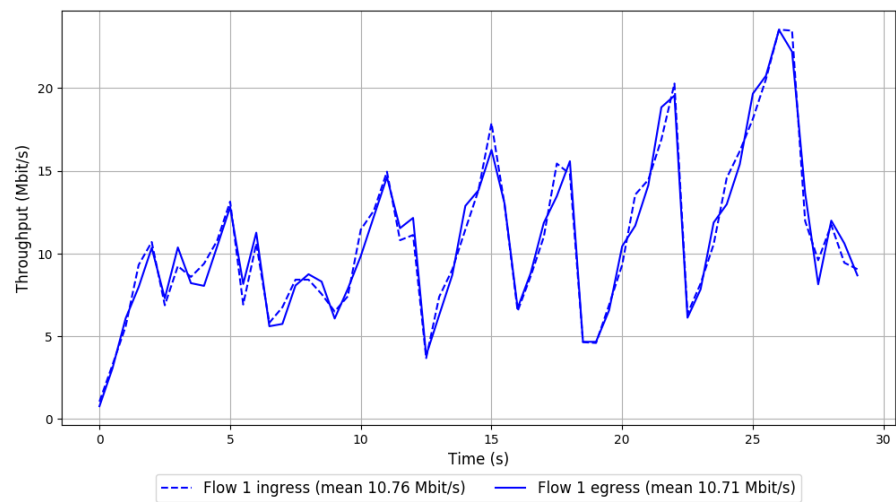Flow 1 (95th percentile 42.53 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2018-03-27 02:59:54
End at: 2018-03-27 03:00:24
Local clock offset: 7.407 ms
Remote clock offset: -4.478 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 47.684 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 10.71 Mbit/s
95th percentile per-packet one-way delay: 47.684 ms
Loss rate: 0.47%
```

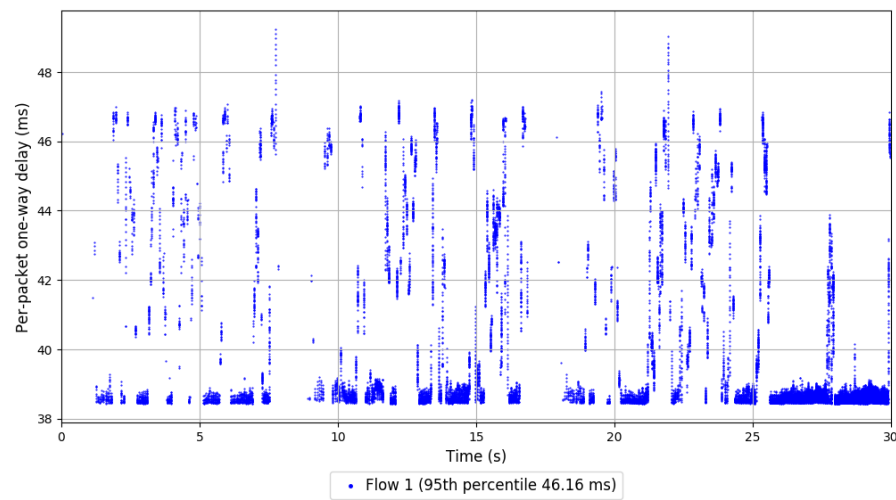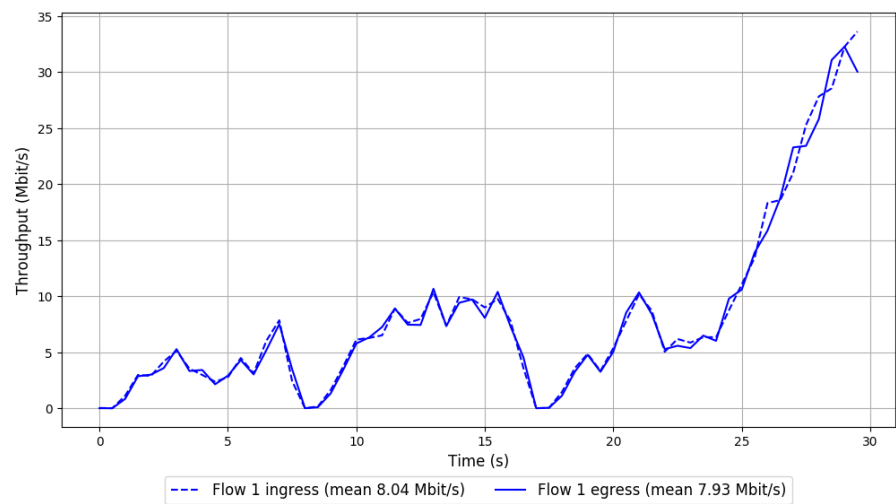Run 6: Report of LEDBAT — Data Link

```
Run 7: Statistics of LEDBAT

Start at: 2018-03-27 03:26:38
End at: 2018-03-27 03:27:08
Local clock offset: 3.462 ms
Remote clock offset: -2.047 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 46.164 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 46.164 ms
Loss rate: 1.55%
```

Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 8.04 Mbit/s) --- Flow 1 egress (mean 7.93 Mbit/s)

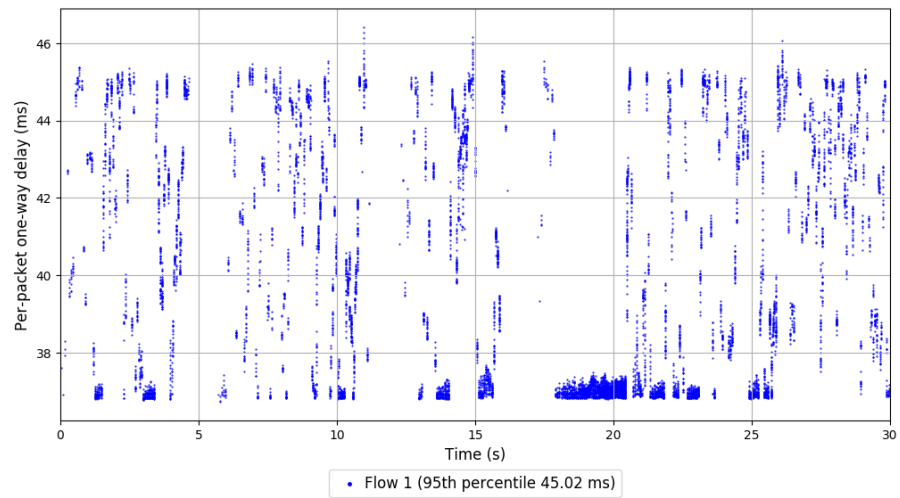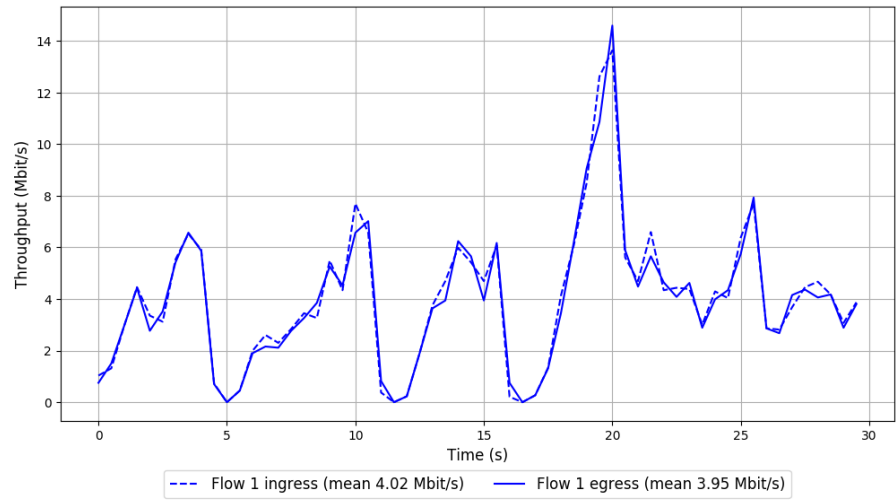Flow 1 (95th percentile 46.16 ms)

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```
Run 8: Statistics of LEDBAT

Start at: 2018-03-27 03:55:01
End at: 2018-03-27 03:55:31
Local clock offset: 0.28 ms
Remote clock offset: -1.005 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 45.017 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 45.017 ms
Loss rate: 1.77%
```

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 4.02 Mbit/s)   Flow 1 egress (mean 3.95 Mbit/s)

Flow 1 (95th percentile 45.02 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2018-03-27 04:26:39
End at: 2018-03-27 04:27:09
Local clock offset: -0.197 ms
Remote clock offset: -1.099 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 46.463 ms
Loss rate: 3.39%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 46.463 ms
Loss rate: 3.39%
```
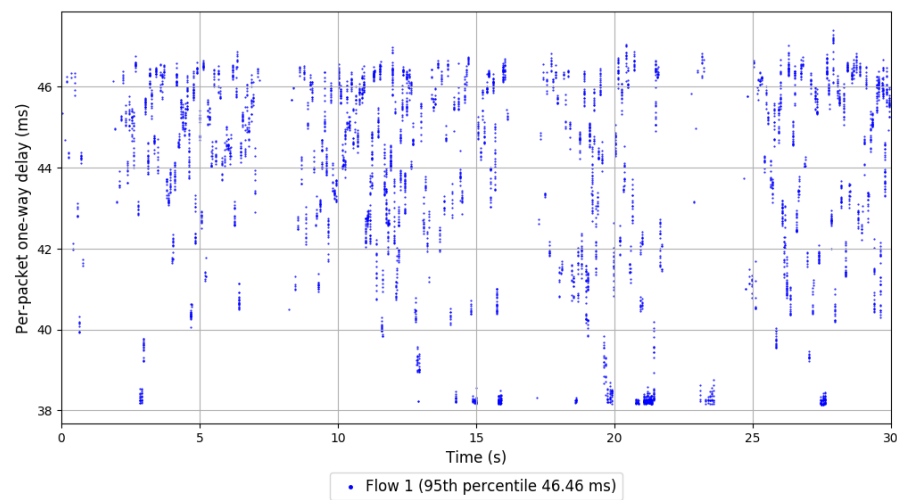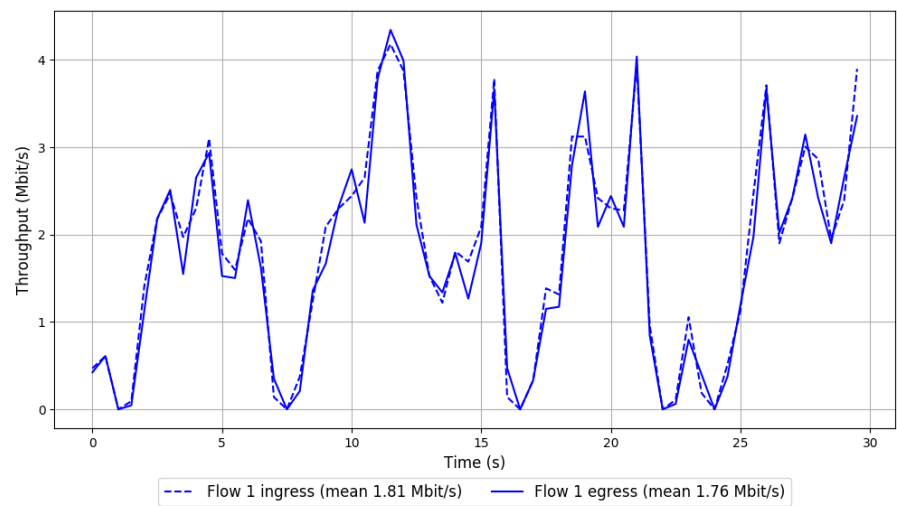
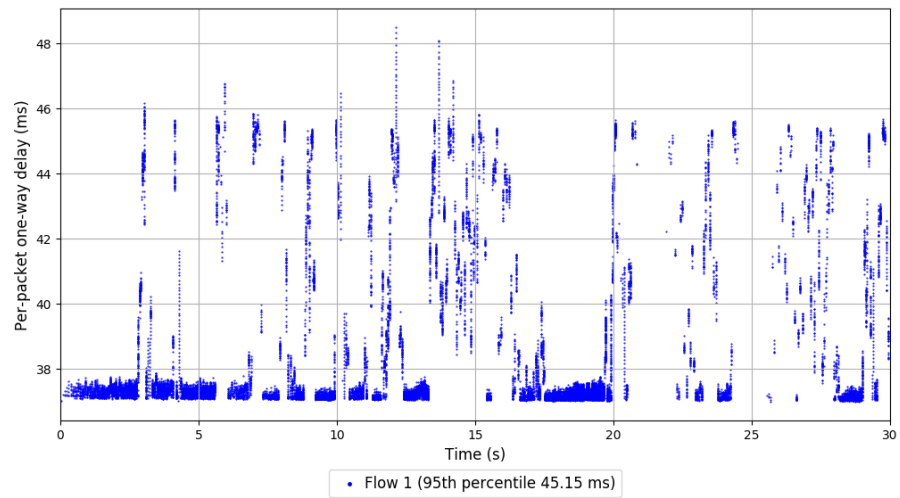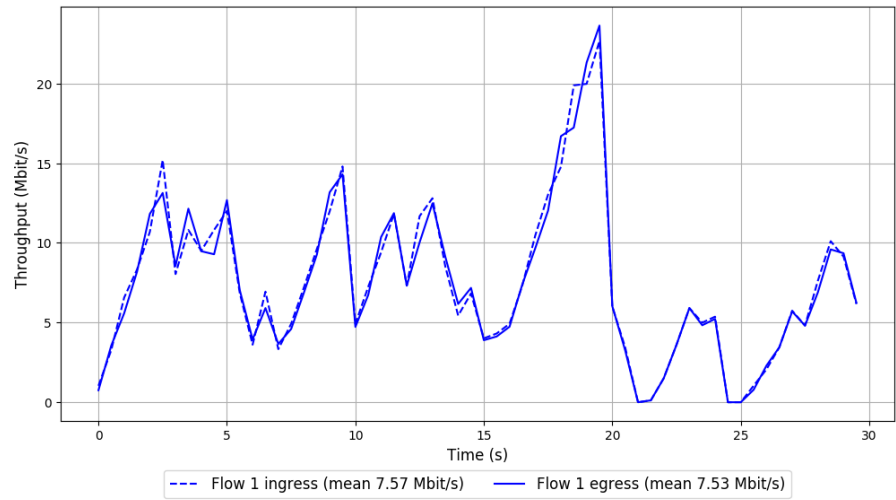Run 9: Report of LEDBAT — Data Link

```
Run 10: Statistics of LEDBAT

Start at: 2018-03-27 04:54:52
End at: 2018-03-27 04:55:22
Local clock offset: 0.125 ms
Remote clock offset: -3.251 ms


# Below is generated by plot.py at 2018-03-27 09:32:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 45.150 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 45.150 ms
Loss rate: 0.82%
```

Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 7.57 Mbit/s) --- Flow 1 egress (mean 7.53 Mbit/s)

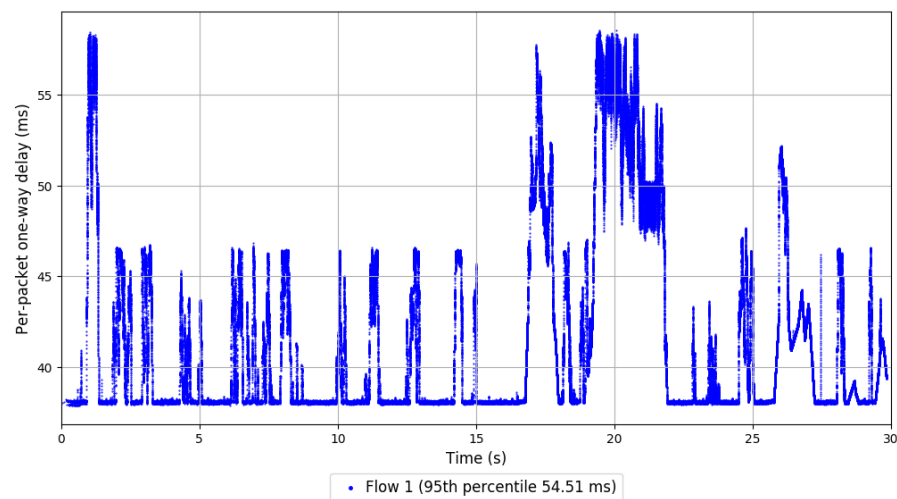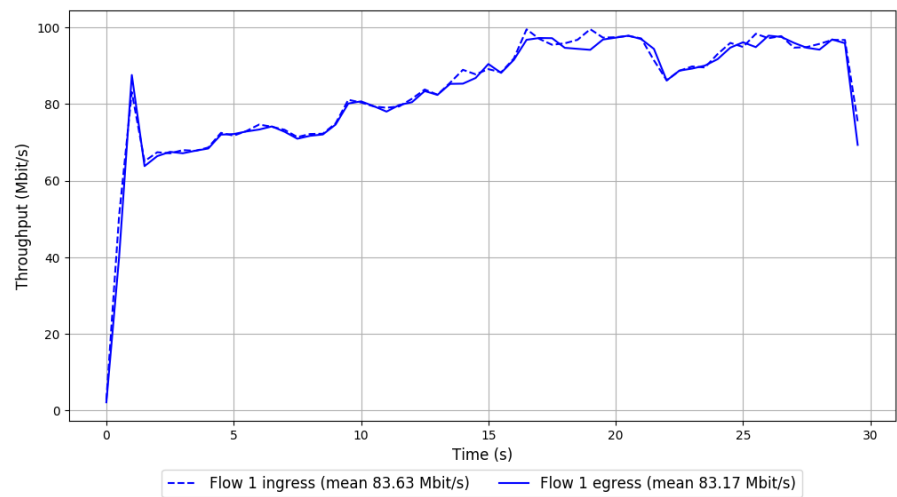Flow 1 (95th percentile 45.15 ms)

```
Run 1: Statistics of PCC

Start at: 2018-03-27 00:41:20
End at: 2018-03-27 00:41:50
Local clock offset: 4.489 ms
Remote clock offset: -1.871 ms


# Below is generated by plot.py at 2018-03-27 09:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.17 Mbit/s
95th percentile per-packet one-way delay: 54.514 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 83.17 Mbit/s
95th percentile per-packet one-way delay: 54.514 ms
Loss rate: 0.78%
```

Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 83.63 Mbit/s)   Flow 1 egress (mean 83.17 Mbit/s)

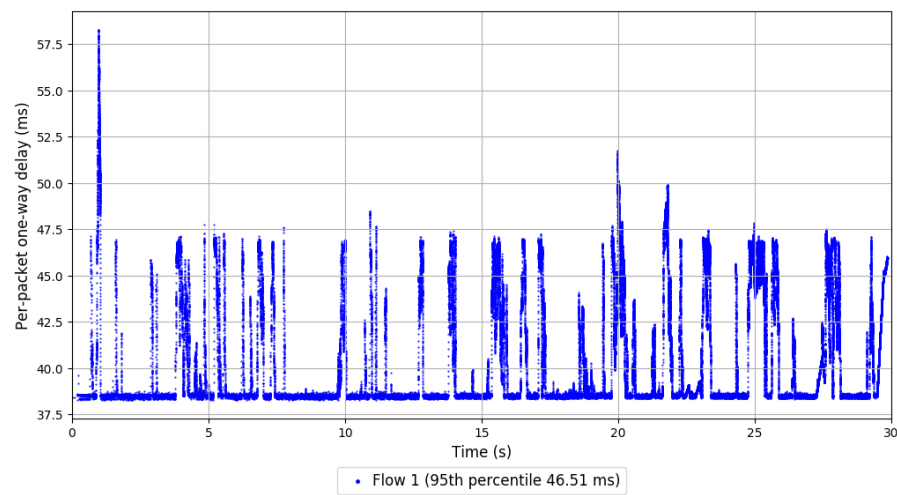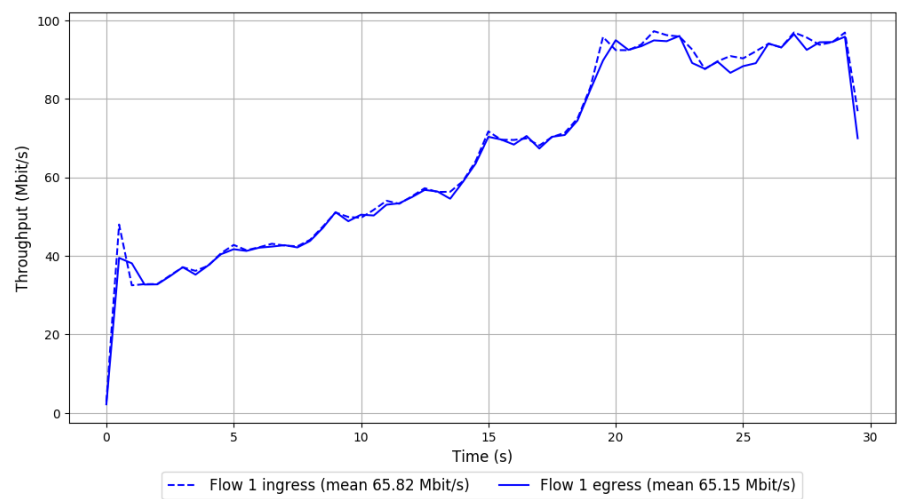• Flow 1 (95th percentile 54.51 ms)

```
Run 2: Statistics of PCC

Start at: 2018-03-27 01:06:54
End at: 2018-03-27 01:07:24
Local clock offset: 6.82 ms
Remote clock offset: -1.753 ms


# Below is generated by plot.py at 2018-03-27 09:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.15 Mbit/s
95th percentile per-packet one-way delay: 46.514 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 65.15 Mbit/s
95th percentile per-packet one-way delay: 46.514 ms
Loss rate: 1.24%
```

Run 2: Report of PCC — Data Link

Flow 1 ingress (mean 65.82 Mbit/s)   Flow 1 egress (mean 65.15 Mbit/s)

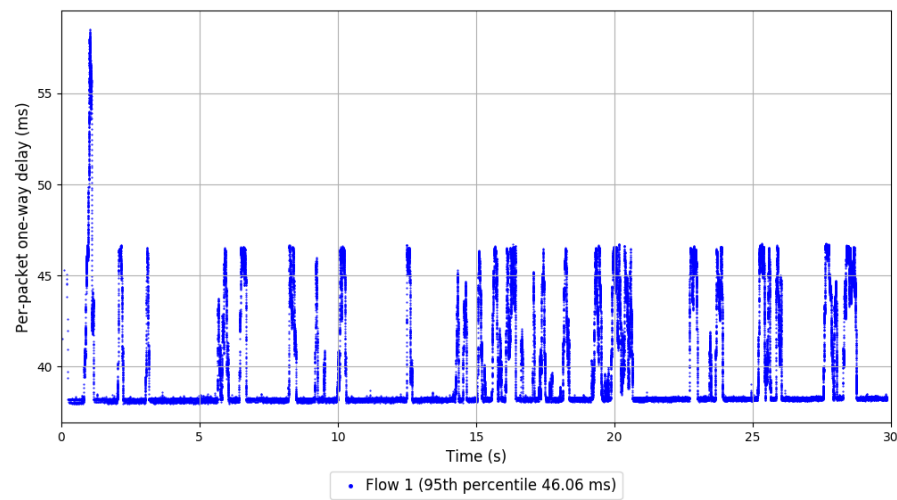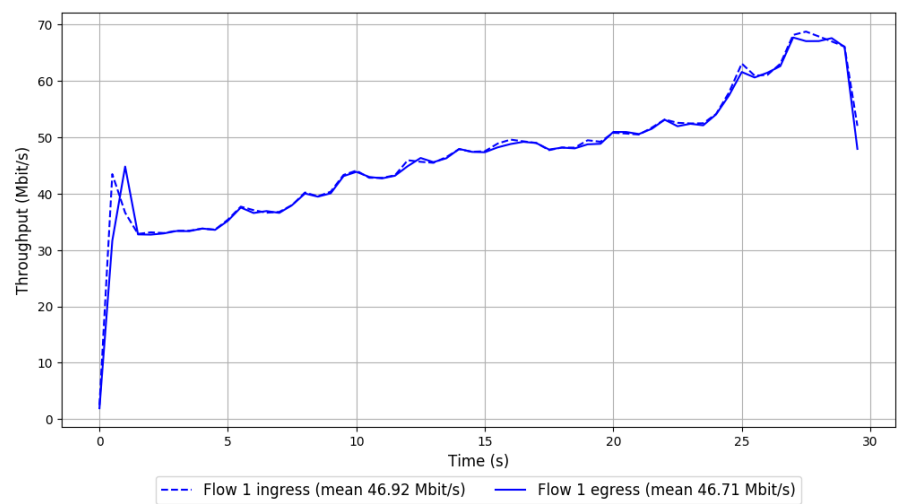Flow 1 (95th percentile 46.51 ms)

```
Run 3: Statistics of PCC

Start at: 2018-03-27 01:33:13
End at: 2018-03-27 01:33:43
Local clock offset: 1.568 ms
Remote clock offset: -1.313 ms


# Below is generated by plot.py at 2018-03-27 09:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.71 Mbit/s
95th percentile per-packet one-way delay: 46.059 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 46.71 Mbit/s
95th percentile per-packet one-way delay: 46.059 ms
Loss rate: 0.70%
```

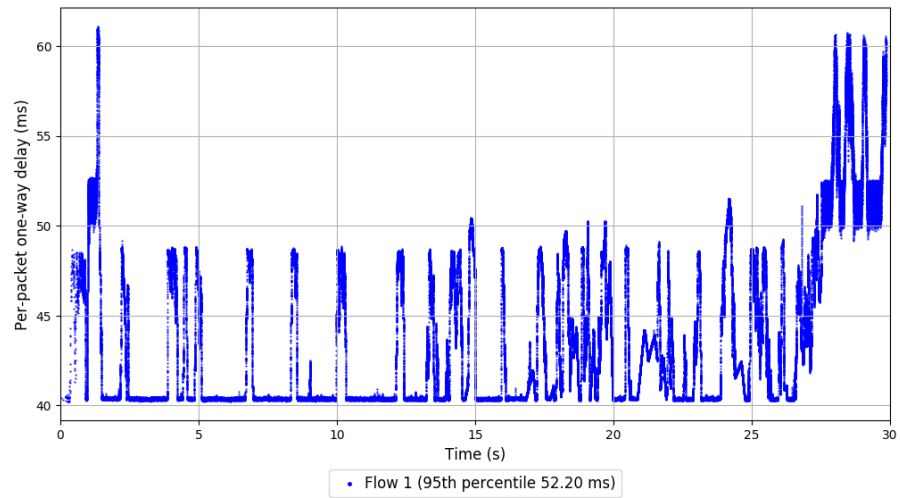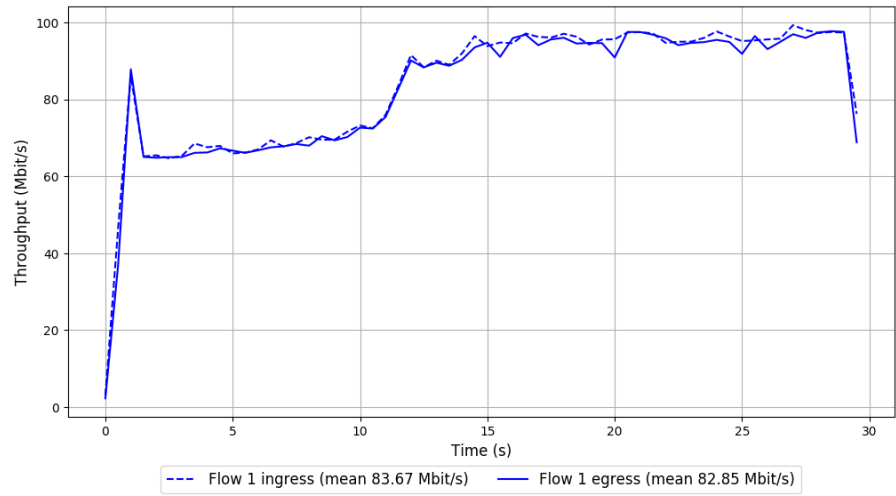Run 3: Report of PCC — Data Link

```
Run 4: Statistics of PCC

Start at: 2018-03-27 01:59:08
End at: 2018-03-27 01:59:38
Local clock offset: -0.46 ms
Remote clock offset: -3.932 ms


# Below is generated by plot.py at 2018-03-27 09:32:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.85 Mbit/s
95th percentile per-packet one-way delay: 52.201 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 82.85 Mbit/s
95th percentile per-packet one-way delay: 52.201 ms
Loss rate: 1.22%
```

Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 83.67 Mbit/s) ---- Flow 1 egress (mean 82.85 Mbit/s) ——

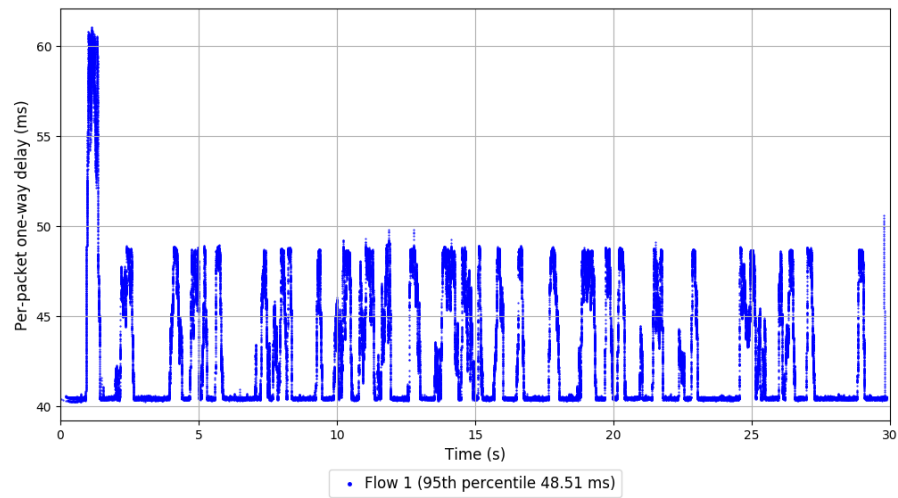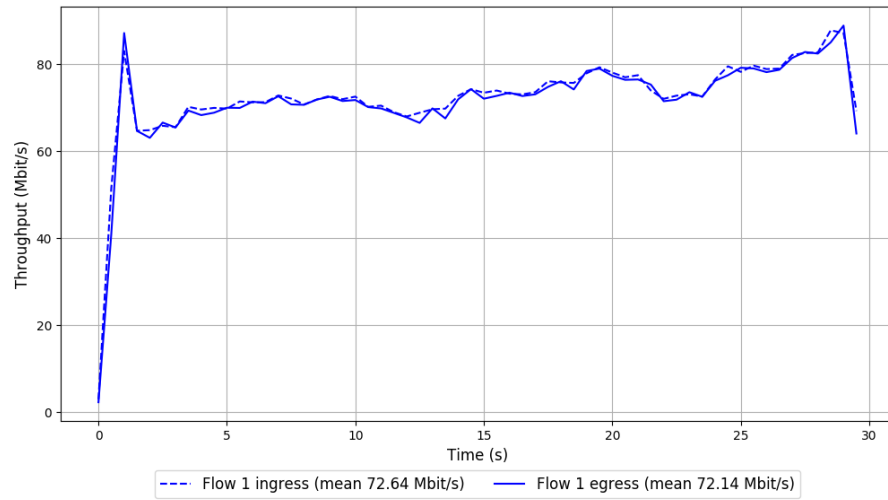• Flow 1 (95th percentile 52.20 ms)

```
Run 5: Statistics of PCC

Start at: 2018-03-27 02:25:54
End at: 2018-03-27 02:26:24
Local clock offset: -0.043 ms
Remote clock offset: -4.134 ms


# Below is generated by plot.py at 2018-03-27 09:32:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.14 Mbit/s
95th percentile per-packet one-way delay: 48.514 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 72.14 Mbit/s
95th percentile per-packet one-way delay: 48.514 ms
Loss rate: 0.91%
```
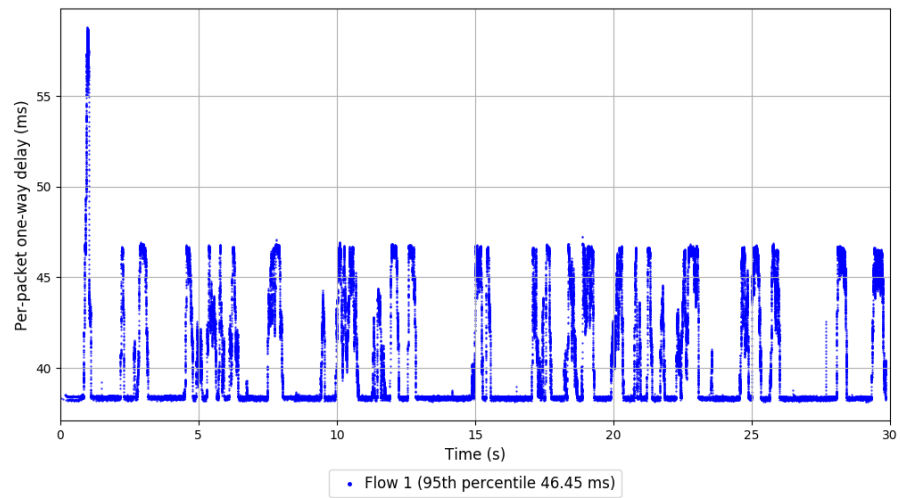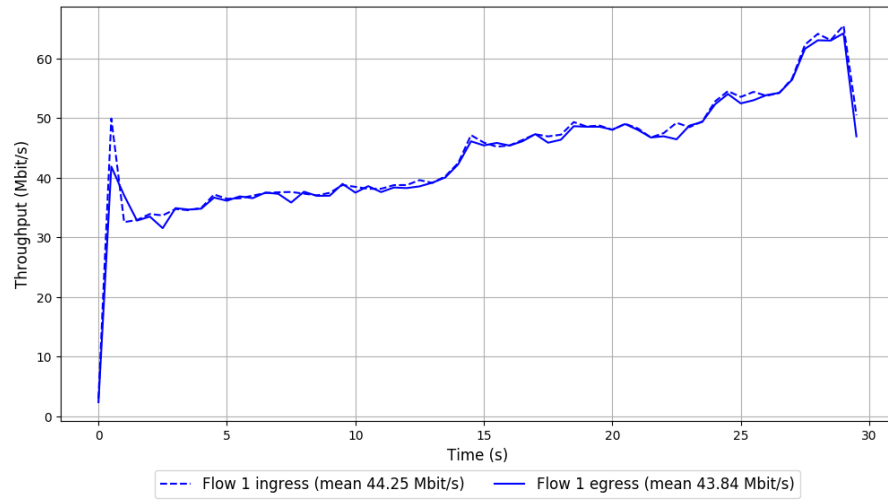
Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 72.64 Mbit/s)   —— Flow 1 egress (mean 72.14 Mbit/s)

· Flow 1 (95th percentile 48.51 ms)

```
Run 6: Statistics of PCC

Start at: 2018-03-27 02:52:36
End at: 2018-03-27 02:53:07
Local clock offset: 6.704 ms
Remote clock offset: -2.33 ms


# Below is generated by plot.py at 2018-03-27 09:32:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.84 Mbit/s
95th percentile per-packet one-way delay: 46.445 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 43.84 Mbit/s
95th percentile per-packet one-way delay: 46.445 ms
Loss rate: 1.16%
```

Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 44.25 Mbit/s) —— Flow 1 egress (mean 43.84 Mbit/s)

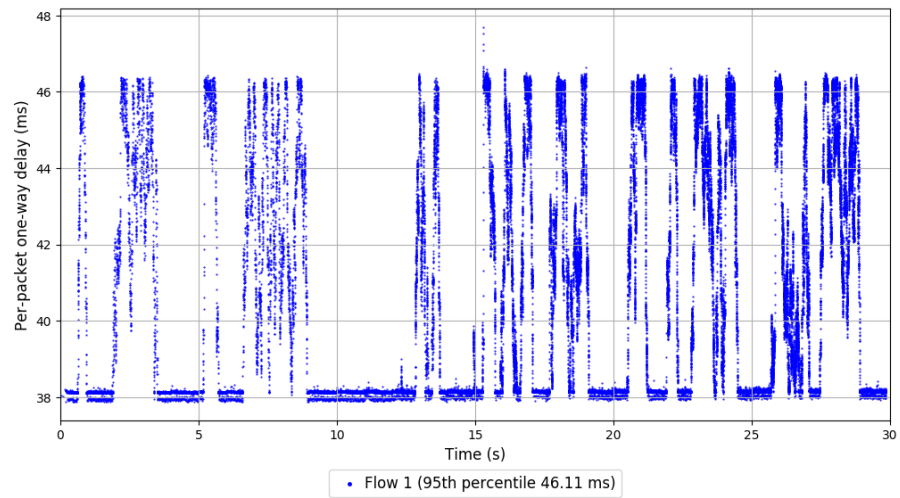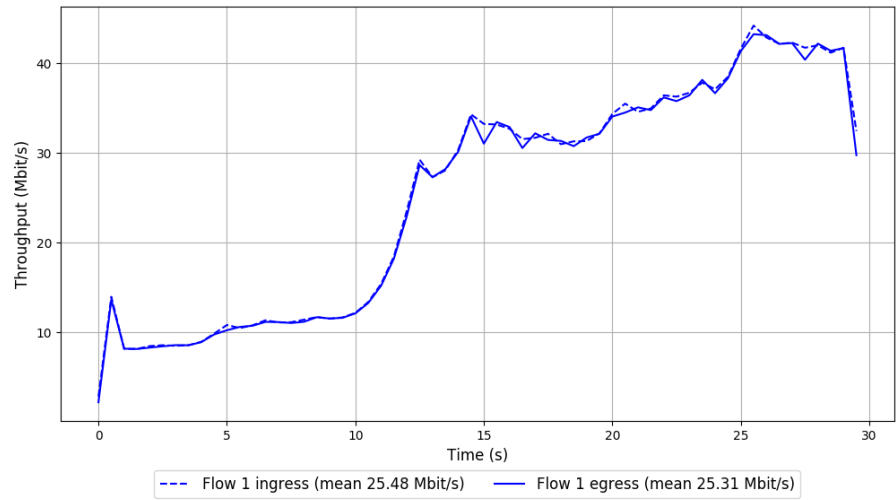• Flow 1 (95th percentile 46.45 ms)

```
Run 7: Statistics of PCC

Start at: 2018-03-27 03:18:46
End at: 2018-03-27 03:19:16
Local clock offset: 3.98 ms
Remote clock offset: -1.707 ms


# Below is generated by plot.py at 2018-03-27 09:32:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.31 Mbit/s
95th percentile per-packet one-way delay: 46.112 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 25.31 Mbit/s
95th percentile per-packet one-way delay: 46.112 ms
Loss rate: 0.92%
```

Run 7: Report of PCC — Data Link

Flow 1 ingress (mean 25.48 Mbit/s) --- Flow 1 egress (mean 25.31 Mbit/s)

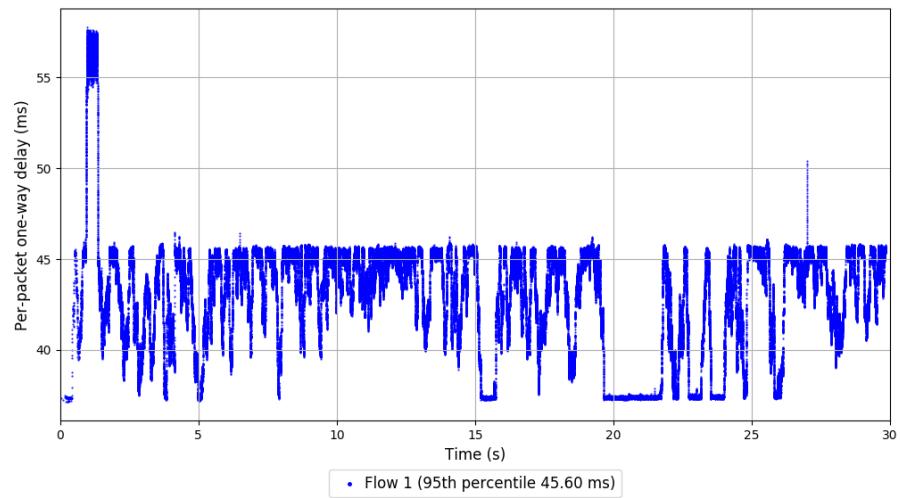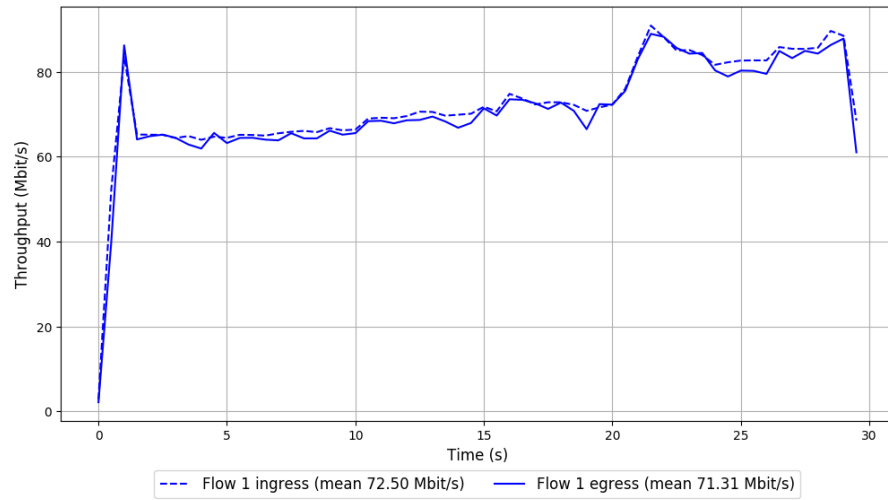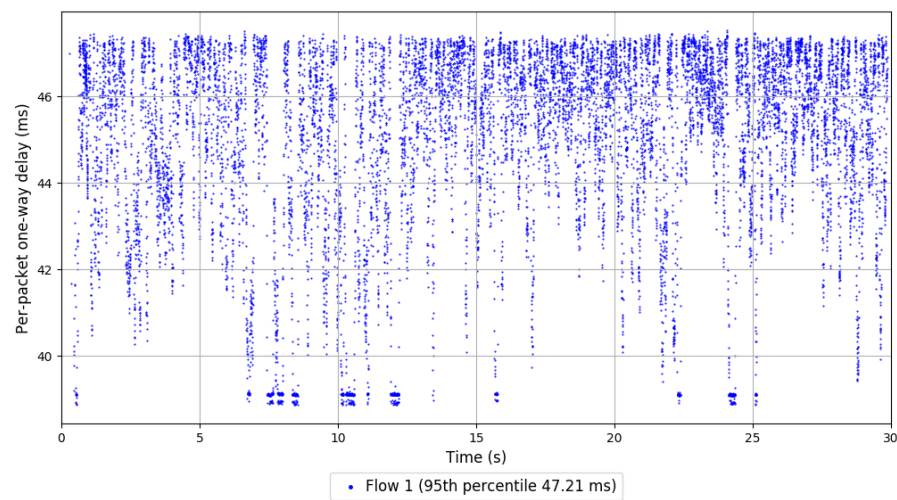• Flow 1 (95th percentile 46.11 ms)

```
Run 8: Statistics of PCC

Start at: 2018-03-27 03:46:43
End at: 2018-03-27 03:47:13
Local clock offset: 1.142 ms
Remote clock offset: -1.805 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.31 Mbit/s
95th percentile per-packet one-way delay: 45.598 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 71.31 Mbit/s
95th percentile per-packet one-way delay: 45.598 ms
Loss rate: 1.86%
```

Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 72.50 Mbit/s) — — — Flow 1 egress (mean 71.31 Mbit/s)

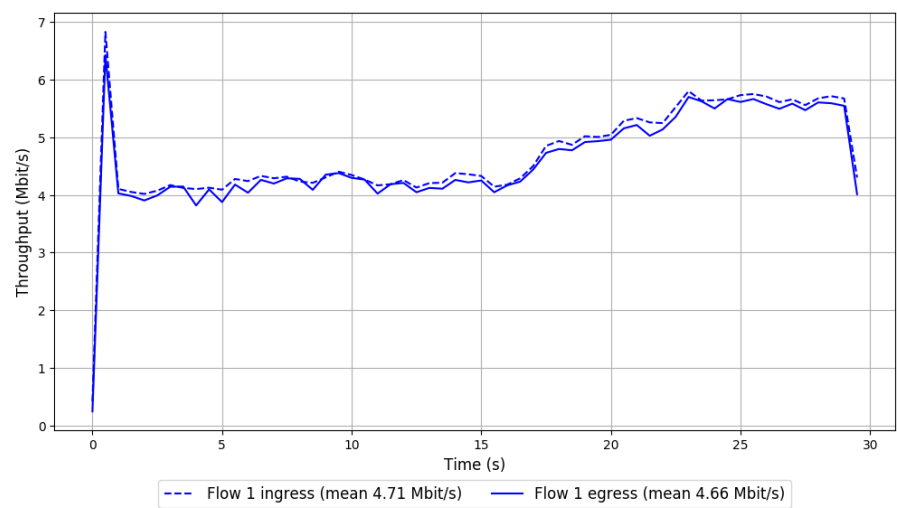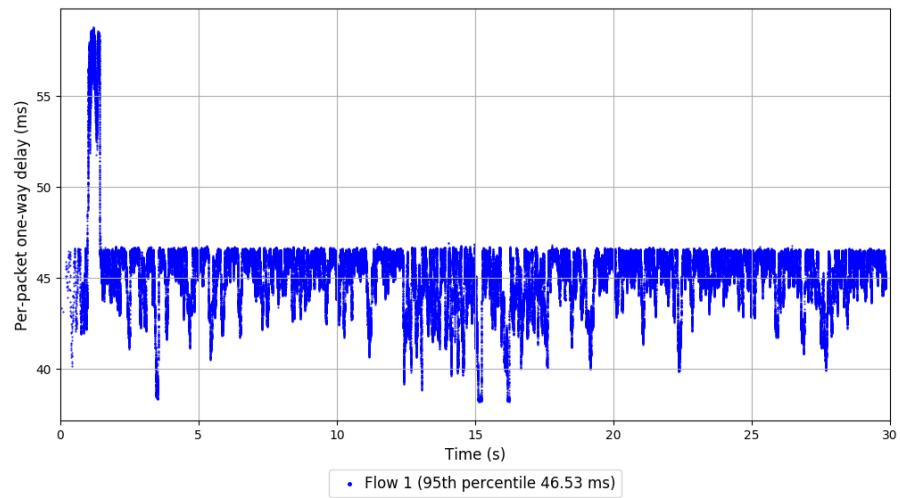• Flow 1 (95th percentile 45.60 ms)

```
Run 9: Statistics of PCC

Start at: 2018-03-27 04:16:54
End at: 2018-03-27 04:17:24
Local clock offset: -0.416 ms
Remote clock offset: -3.562 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 47.210 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 47.210 ms
Loss rate: 2.10%
```

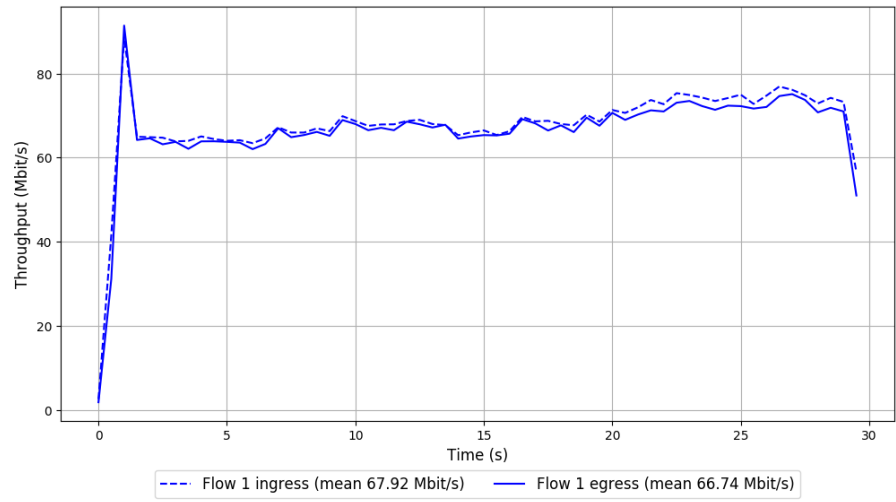Run 9: Report of PCC — Data Link

```
Run 10: Statistics of PCC

Start at: 2018-03-27 04:47:04
End at: 2018-03-27 04:47:34
Local clock offset: -0.264 ms
Remote clock offset: -1.672 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 46.534 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 46.534 ms
Loss rate: 1.99%
```
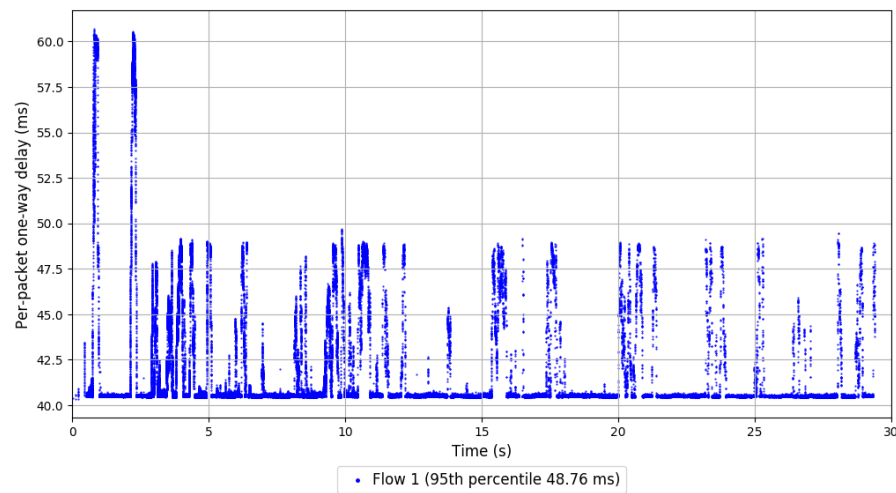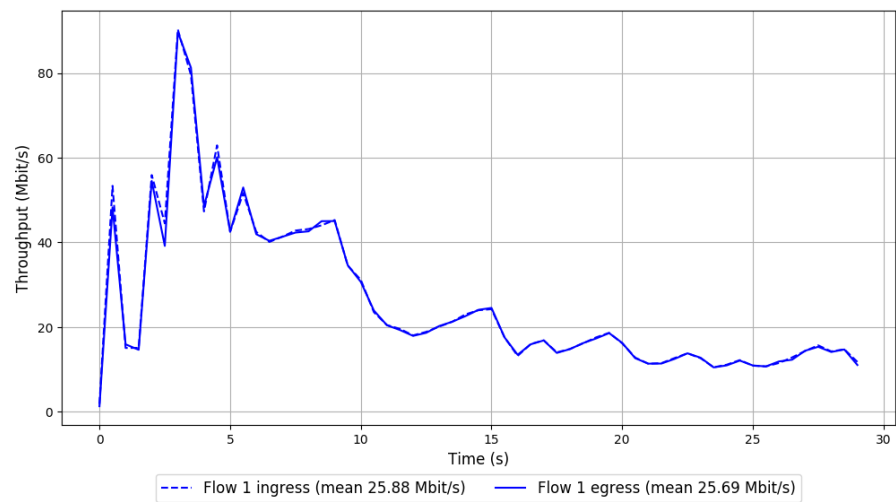
Run 10: Report of PCC — Data Link

Flow 1 ingress (mean 67.92 Mbit/s)   Flow 1 egress (mean 66.74 Mbit/s)

• Flow 1 (95th percentile 46.53 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-27 00:52:30
End at: 2018-03-27 00:53:00
Local clock offset: 5.555 ms
Remote clock offset: -4.116 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 48.762 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 25.69 Mbit/s
95th percentile per-packet one-way delay: 48.762 ms
Loss rate: 0.93%
```
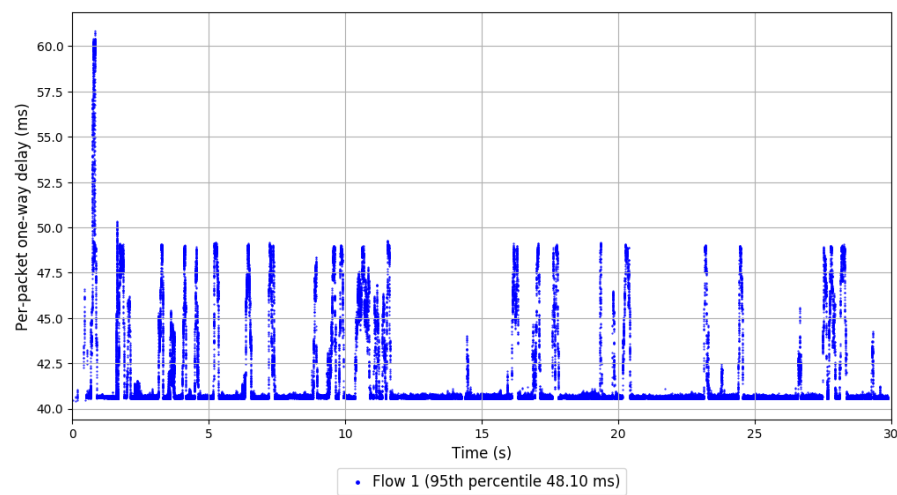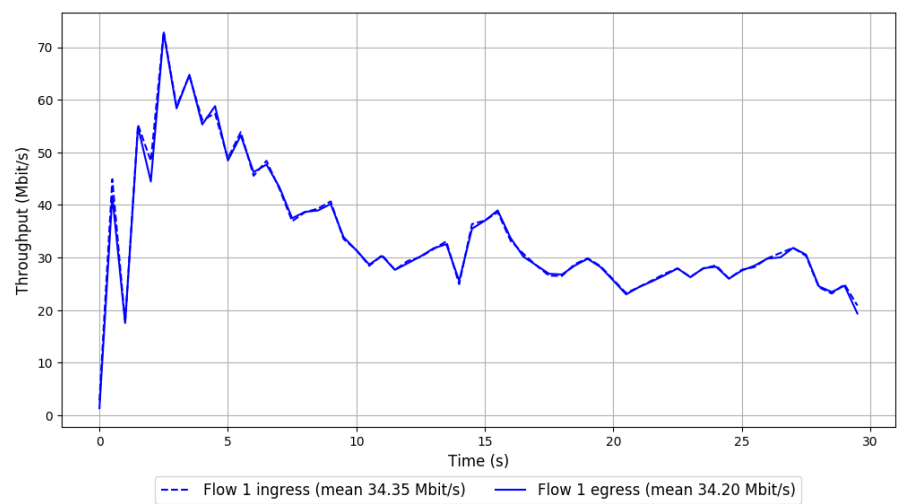
Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 25.88 Mbit/s)　　Flow 1 egress (mean 25.69 Mbit/s)
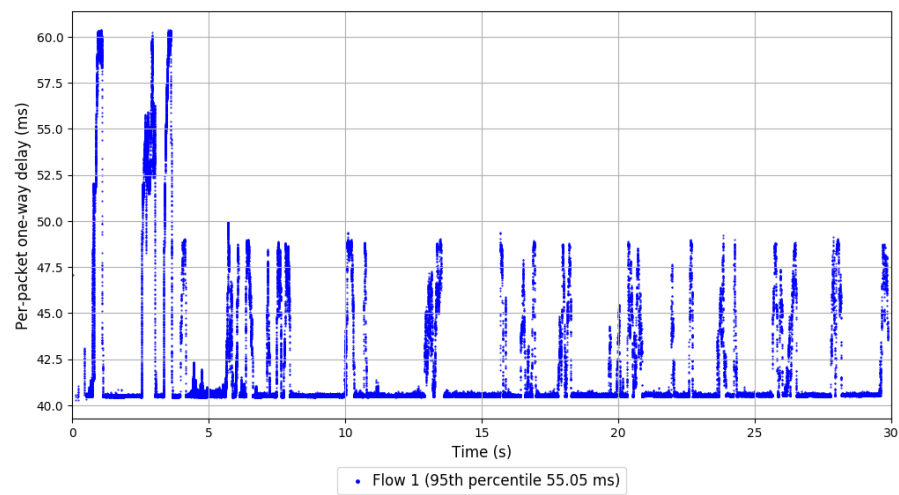

Flow 1 (95th percentile 48.76 ms)

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-03-27 01:18:36
End at: 2018-03-27 01:19:06
Local clock offset: 7.52 ms
Remote clock offset: -3.751 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 48.104 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 34.20 Mbit/s
95th percentile per-packet one-way delay: 48.104 ms
Loss rate: 0.64%
```

Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 34.35 Mbit/s) --- Flow 1 egress (mean 34.20 Mbit/s)

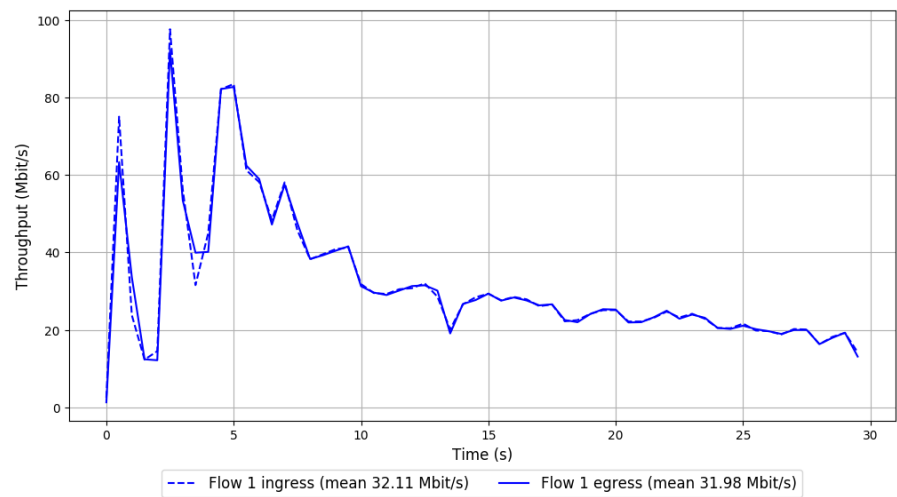
• Flow 1 (95th percentile 48.10 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-03-27 01:44:55
End at: 2018-03-27 01:45:25
Local clock offset: -0.277 ms
Remote clock offset: -3.806 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 55.048 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 31.98 Mbit/s
95th percentile per-packet one-way delay: 55.048 ms
Loss rate: 0.65%
```

Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-03-27 02:11:27
End at: 2018-03-27 02:11:57
Local clock offset: 0.101 ms
Remote clock offset: -1.876 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.17 Mbit/s
95th percentile per-packet one-way delay: 51.210 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 35.17 Mbit/s
95th percentile per-packet one-way delay: 51.210 ms
Loss rate: 0.98%
```
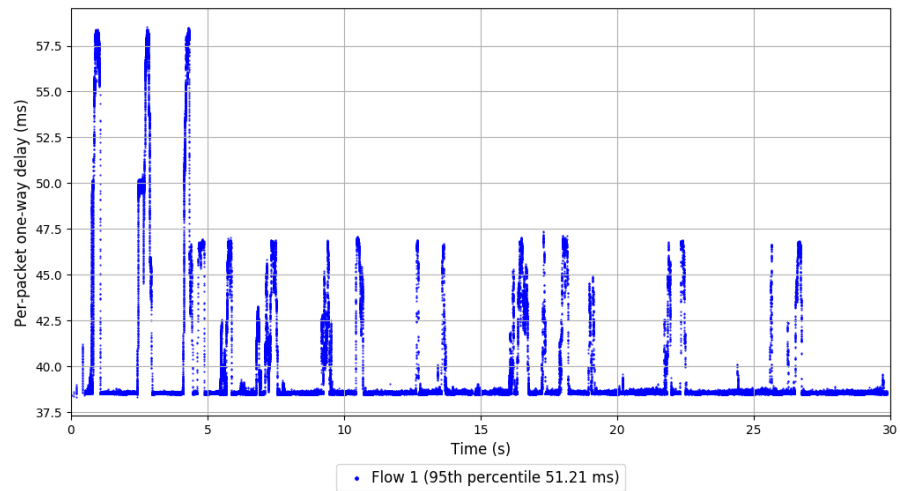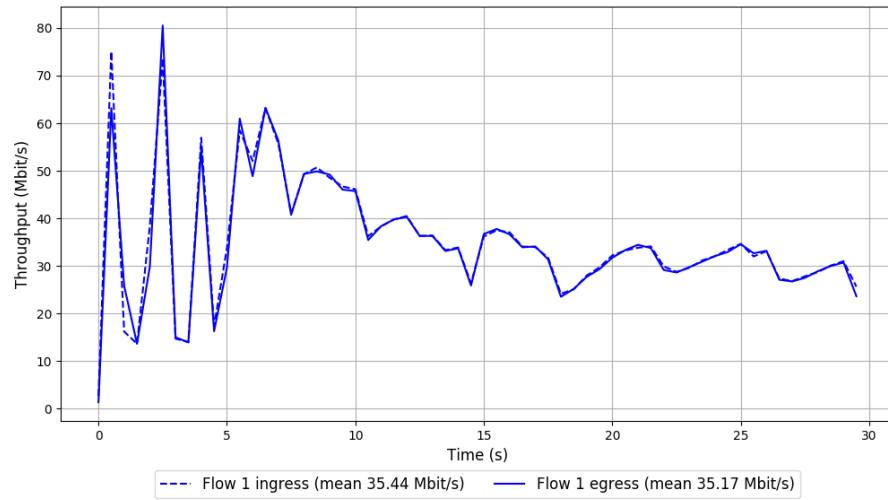
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 35.44 Mbit/s)   Flow 1 egress (mean 35.17 Mbit/s)
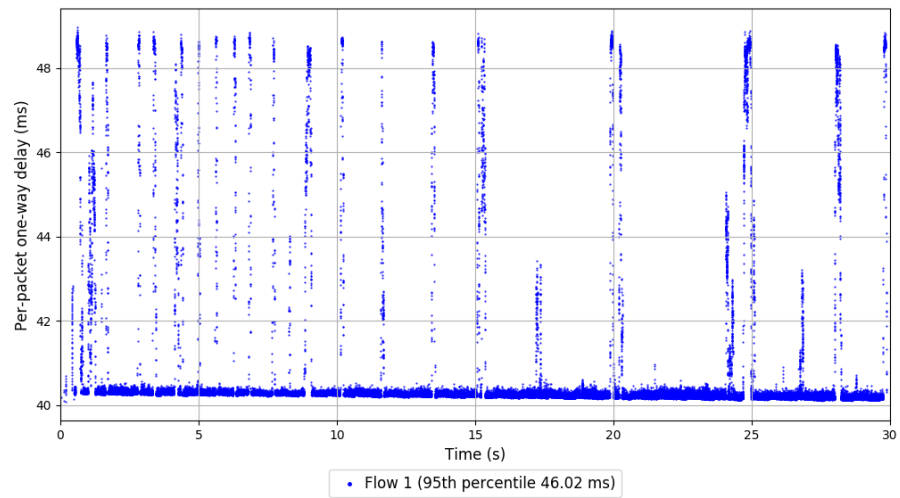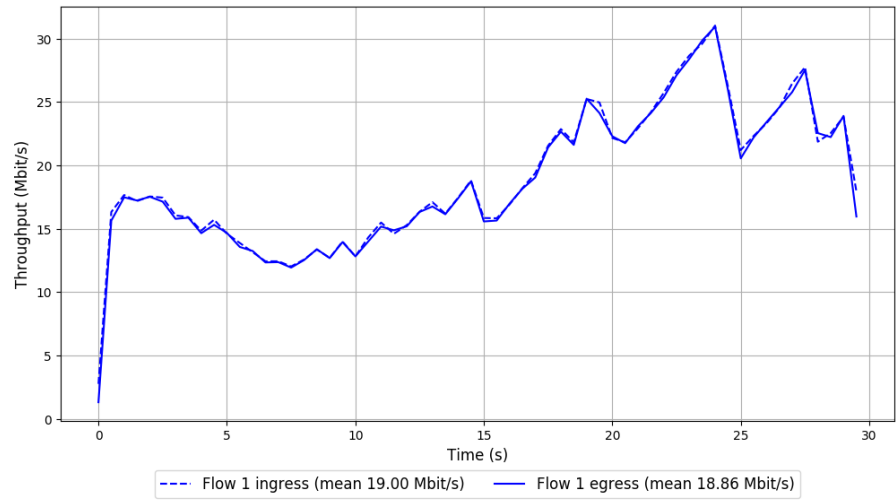

Flow 1 (95th percentile 51.21 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-03-27 02:37:31
End at: 2018-03-27 02:38:01
Local clock offset: 4.013 ms
Remote clock offset: -4.166 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.86 Mbit/s
95th percentile per-packet one-way delay: 46.022 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 18.86 Mbit/s
95th percentile per-packet one-way delay: 46.022 ms
Loss rate: 0.97%
```

Run 5: Report of QUIC Cubic — Data Link

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-03-27 03:04:04
End at: 2018-03-27 03:04:34
Local clock offset: 7.039 ms
Remote clock offset: -4.333 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.21 Mbit/s
95th percentile per-packet one-way delay: 48.596 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 27.21 Mbit/s
95th percentile per-packet one-way delay: 48.596 ms
Loss rate: 0.81%
```
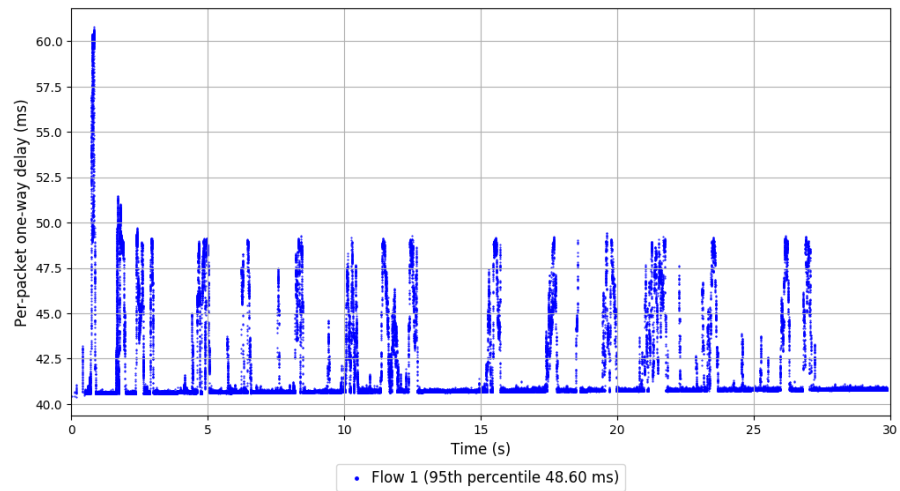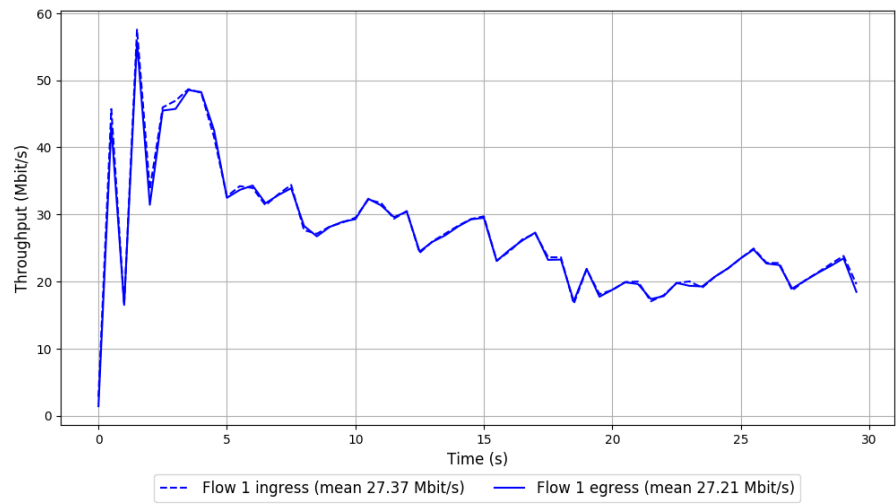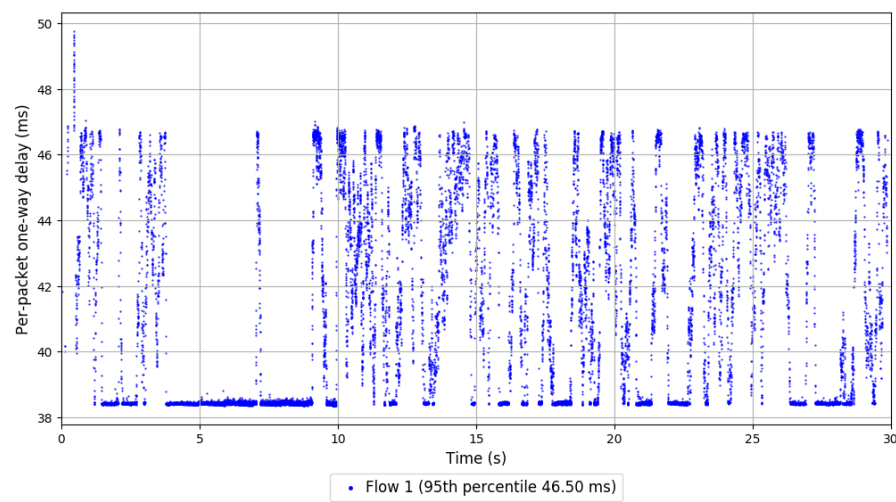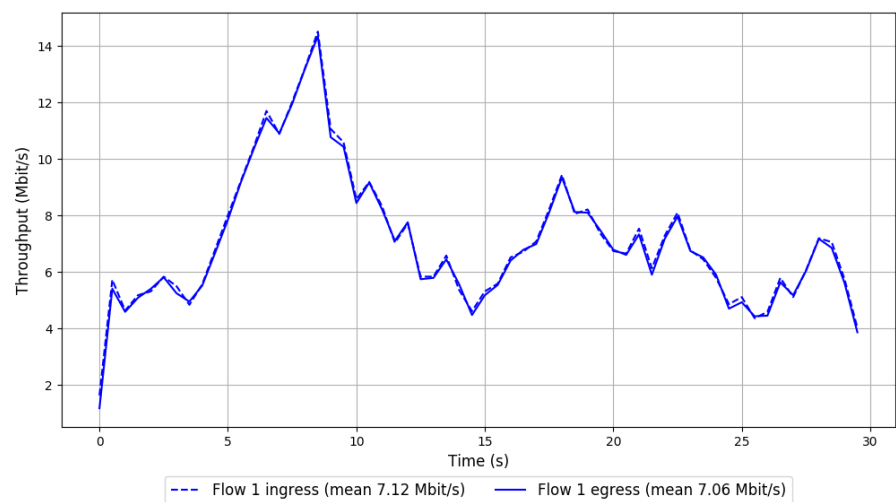
Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 27.37 Mbit/s) --- Flow 1 egress (mean 27.21 Mbit/s)

Flow 1 (95th percentile 48.60 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-03-27 03:30:56
End at: 2018-03-27 03:31:26
Local clock offset: 3.354 ms
Remote clock offset: -2.029 ms


# Below is generated by plot.py at 2018-03-27 09:33:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 46.504 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 46.504 ms
Loss rate: 1.11%
```
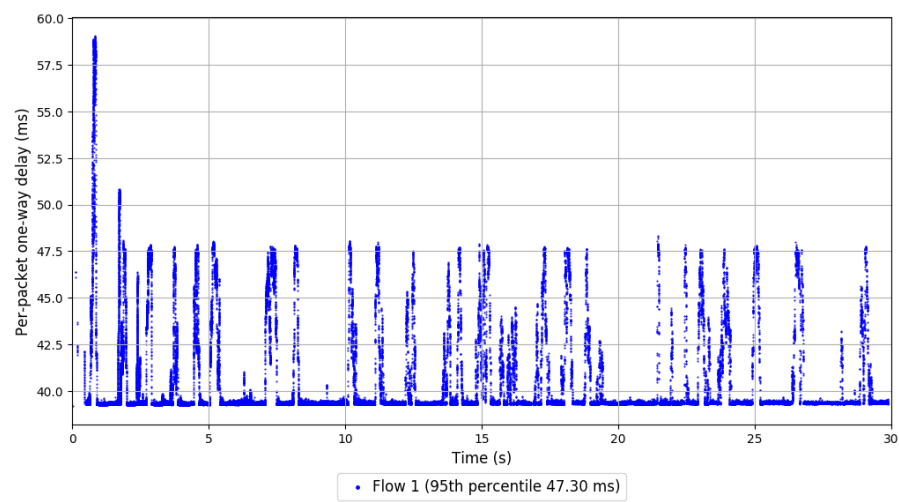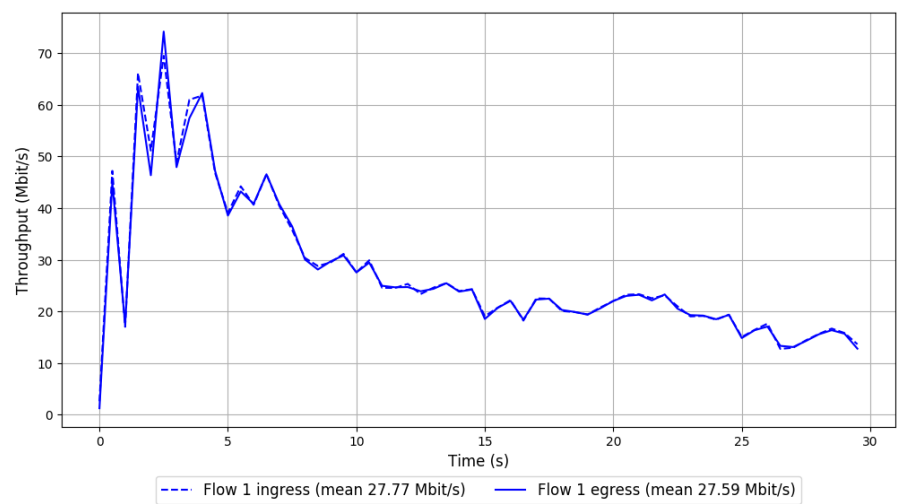
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 7.12 Mbit/s)   Flow 1 egress (mean 7.06 Mbit/s)

Flow 1 (95th percentile 46.50 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-03-27 03:59:26
End at: 2018-03-27 03:59:56
Local clock offset: -0.048 ms
Remote clock offset: -3.462 ms


# Below is generated by plot.py at 2018-03-27 09:33:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.59 Mbit/s
95th percentile per-packet one-way delay: 47.302 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 27.59 Mbit/s
95th percentile per-packet one-way delay: 47.302 ms
Loss rate: 0.87%
```

Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 27.77 Mbit/s) ----- Flow 1 egress (mean 27.59 Mbit/s)
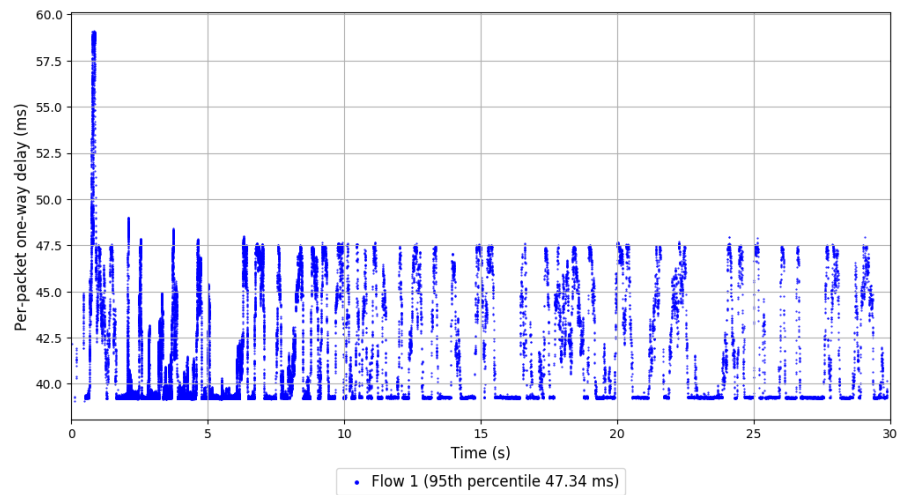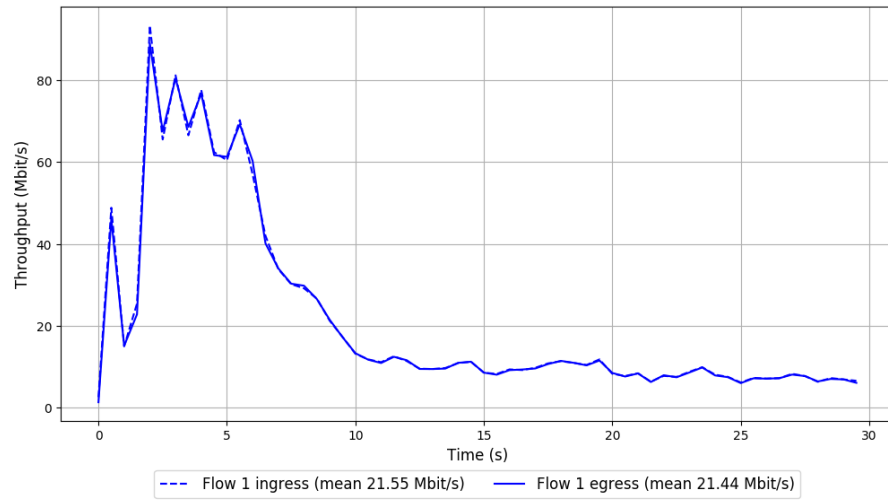

Flow 1 (95th percentile 47.30 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-03-27 04:31:01
End at: 2018-03-27 04:31:31
Local clock offset: -0.23 ms
Remote clock offset: -3.608 ms

# Below is generated by plot.py at 2018-03-27 09:33:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 47.344 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 21.44 Mbit/s
95th percentile per-packet one-way delay: 47.344 ms
Loss rate: 0.74%
```
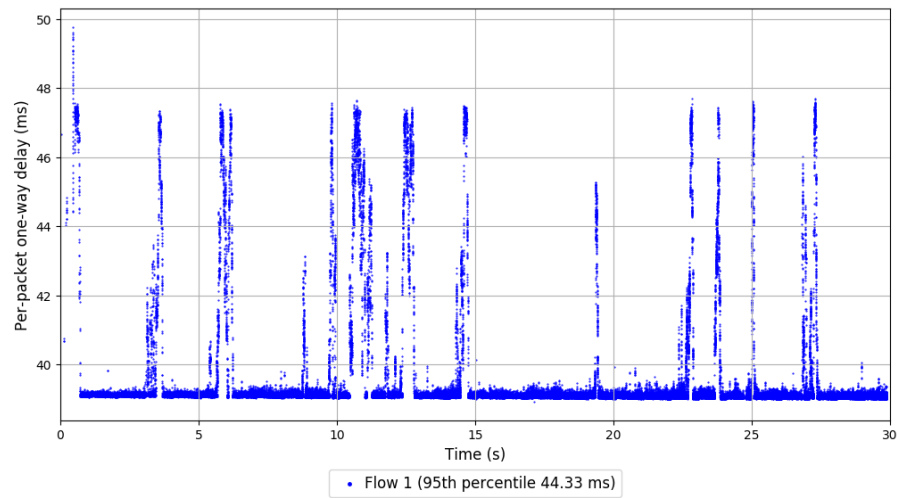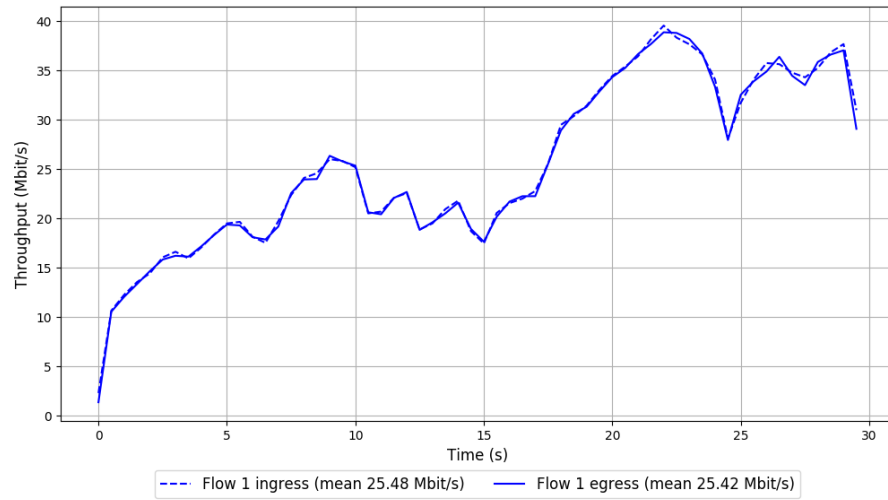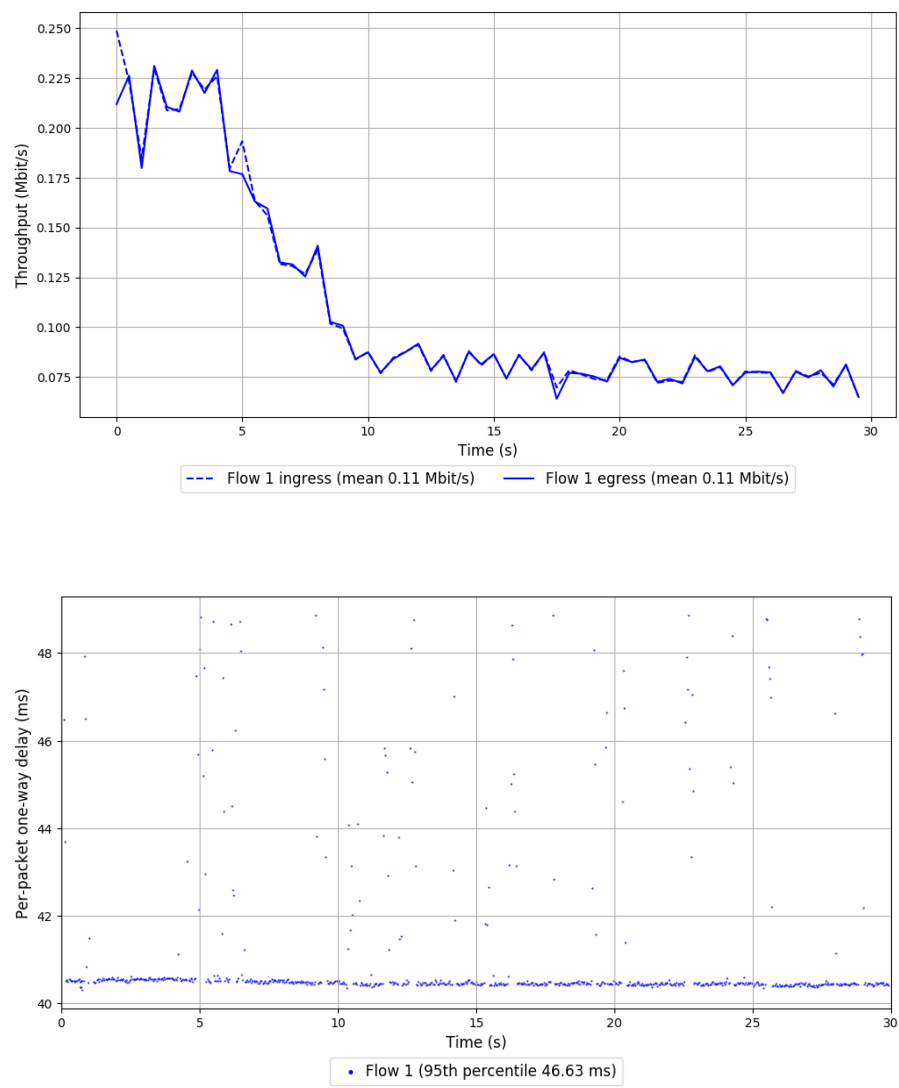
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 21.55 Mbit/s)   ——— Flow 1 egress (mean 21.44 Mbit/s)

• Flow 1 (95th percentile 47.34 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-03-27 04:58:53
End at: 2018-03-27 04:59:23
Local clock offset: 0.139 ms
Remote clock offset: -5.71 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.42 Mbit/s
95th percentile per-packet one-way delay: 44.327 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 25.42 Mbit/s
95th percentile per-packet one-way delay: 44.327 ms
Loss rate: 0.49%
```

Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 25.48 Mbit/s) --- Flow 1 egress (mean 25.42 Mbit/s)
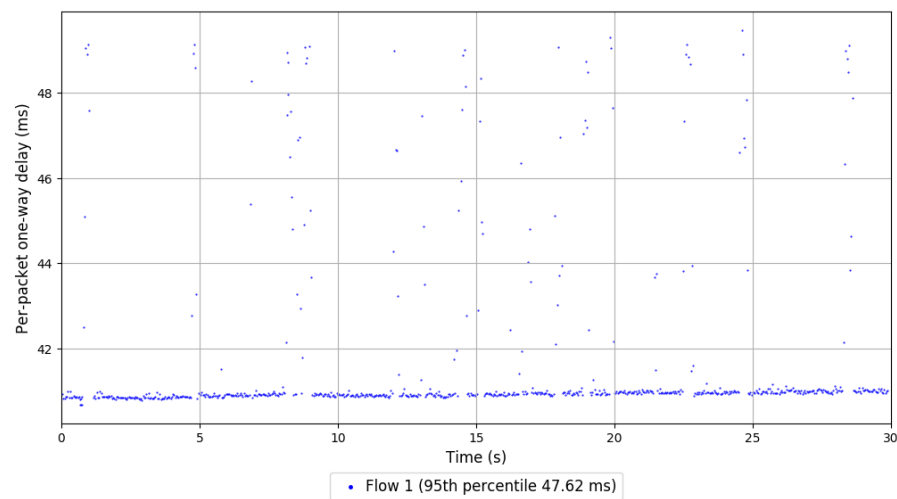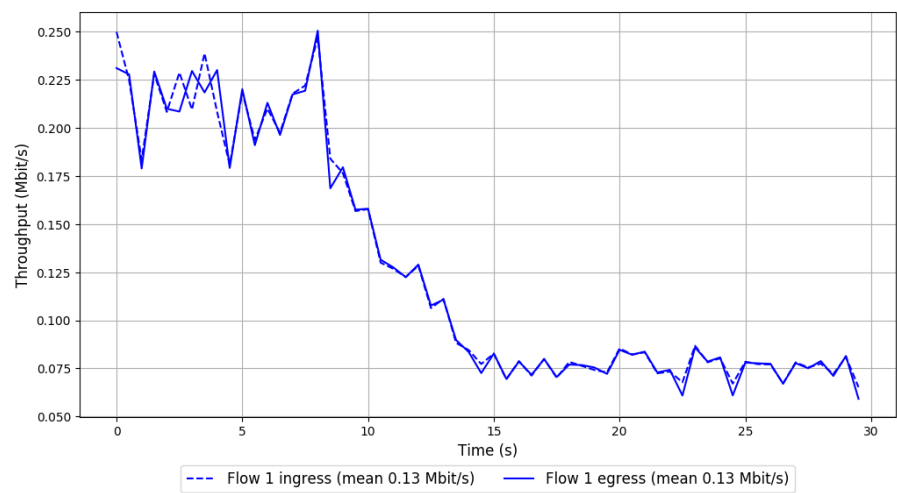

Flow 1 (95th percentile 44.33 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-03-27 00:58:01
End at: 2018-03-27 00:58:31
Local clock offset: 6.135 ms
Remote clock offset: -3.977 ms

# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 46.634 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 46.634 ms
Loss rate: 0.75%
```
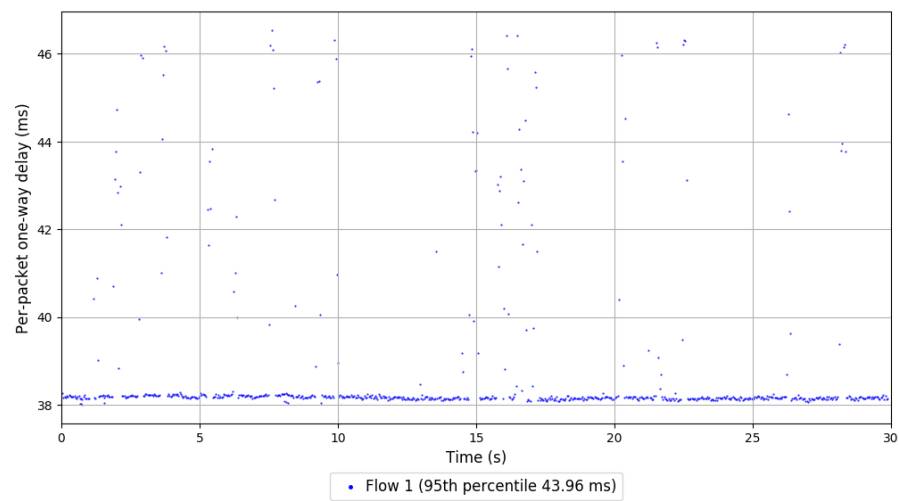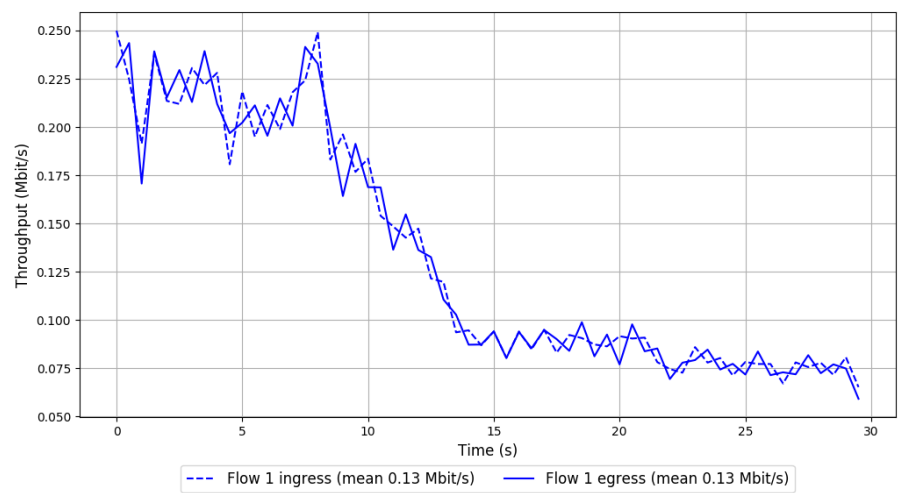
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2018-03-27 01:24:12
End at: 2018-03-27 01:24:42
Local clock offset: 4.903 ms
Remote clock offset: -3.715 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 47.615 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 47.615 ms
Loss rate: 0.61%
```
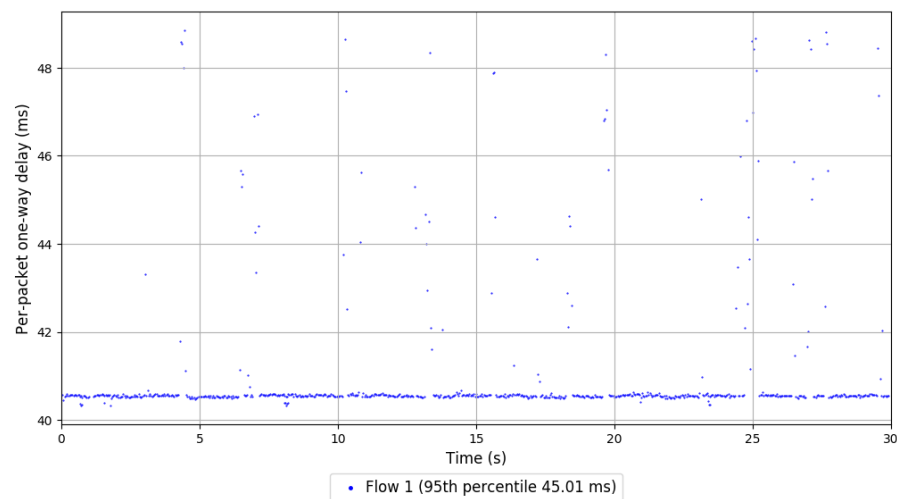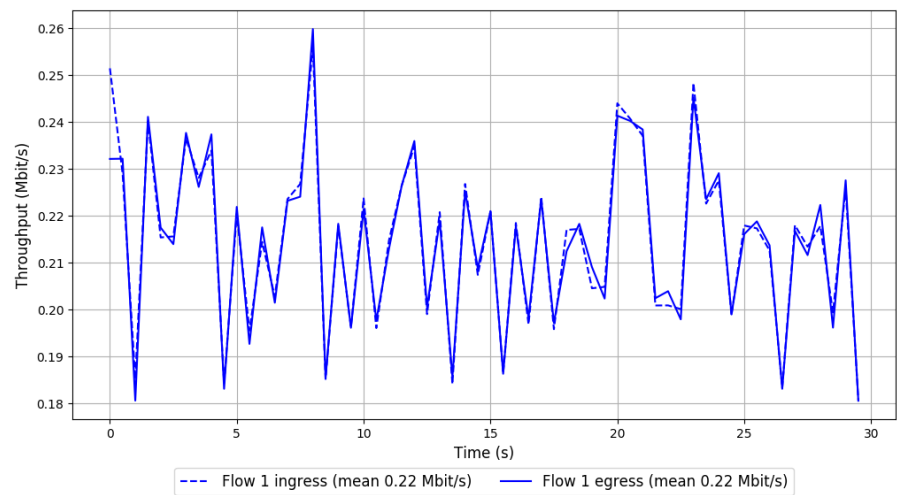
Run 2: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 47.62 ms)

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```
Run 3: Statistics of SCReAM

Start at: 2018-03-27 01:50:19
End at: 2018-03-27 01:50:49
Local clock offset: -0.629 ms
Remote clock offset: -1.358 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 43.960 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 43.960 ms
Loss rate: 0.46%
```

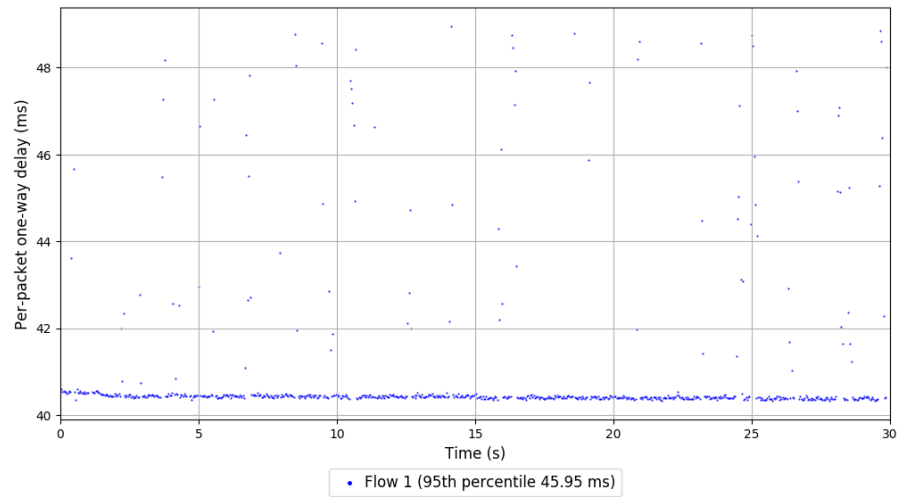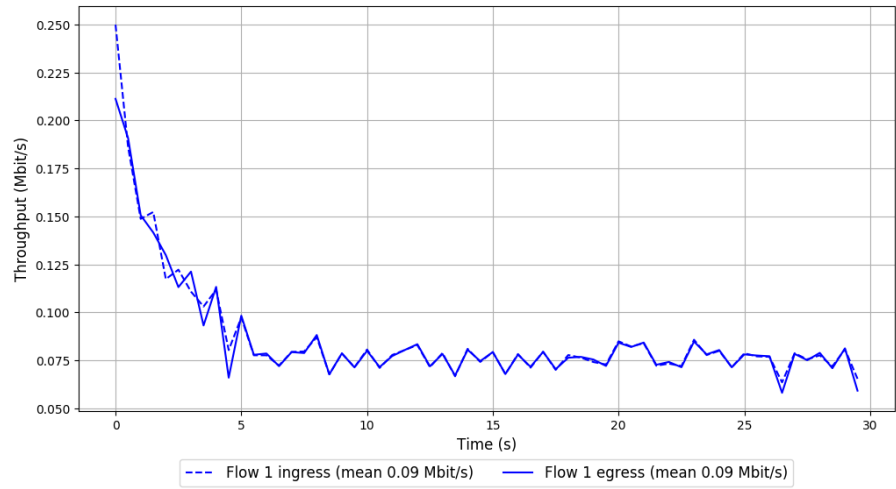# Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2018-03-27 02:16:46
End at: 2018-03-27 02:17:16
Local clock offset: 0.014 ms
Remote clock offset: -4.046 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 45.012 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 45.012 ms
Loss rate: 0.13%
```
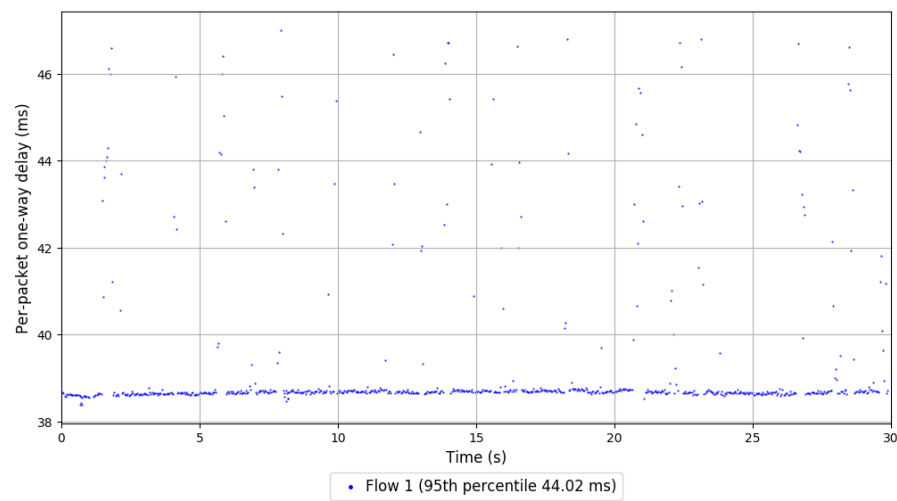
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2018-03-27 02:42:52
End at: 2018-03-27 02:43:22
Local clock offset: 5.393 ms
Remote clock offset: -4.196 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 45.947 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.09 Mbit/s
95th percentile per-packet one-way delay: 45.947 ms
Loss rate: 1.17%
```

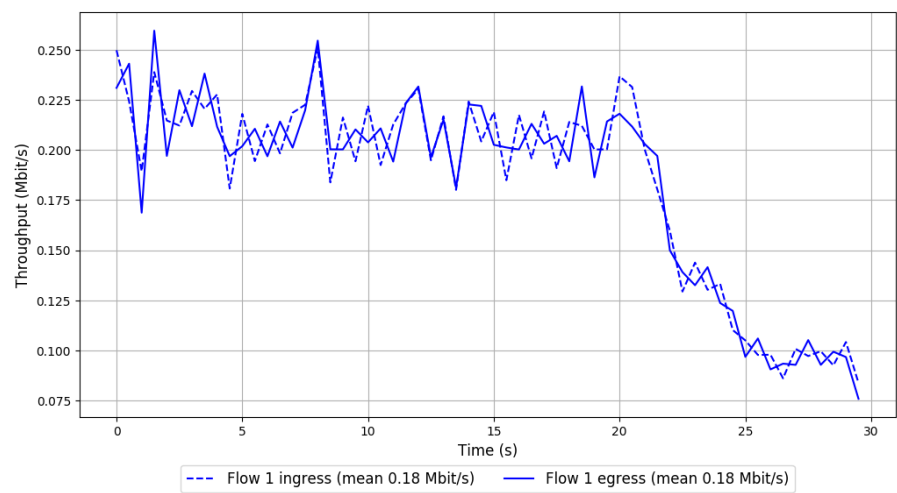# Run 5: Report of SCReAM — Data Link

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```
Run 6: Statistics of SCReAM

Start at: 2018-03-27 03:09:30
End at: 2018-03-27 03:10:00
Local clock offset: 5.206 ms
Remote clock offset: -2.228 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 44.015 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 44.015 ms
Loss rate: 0.31%
```

Run 6: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.18 Mbit/s)   Flow 1 egress (mean 0.18 Mbit/s)

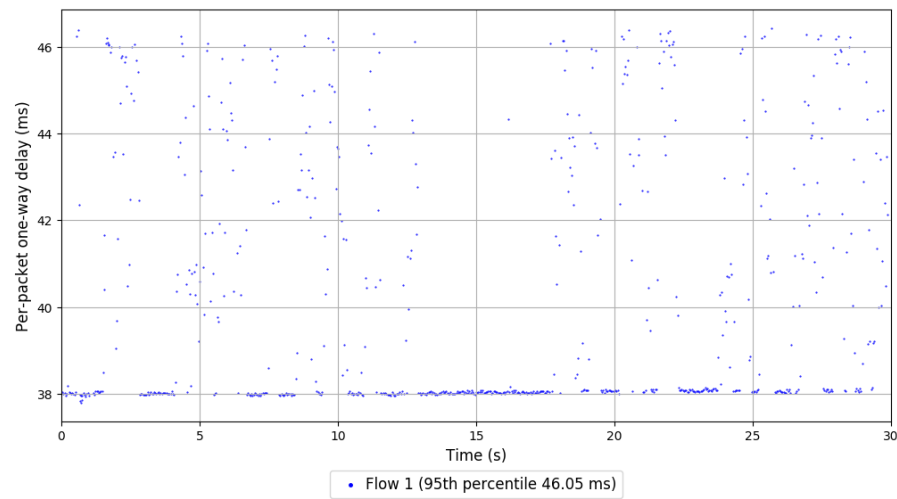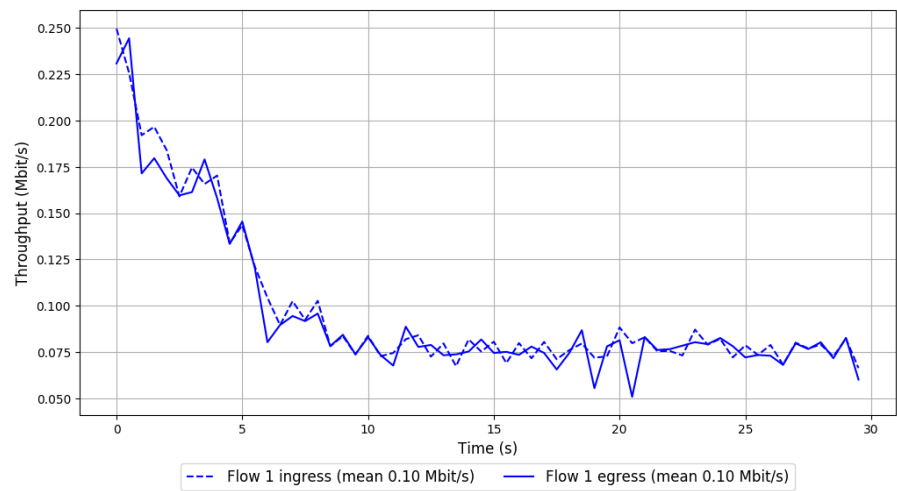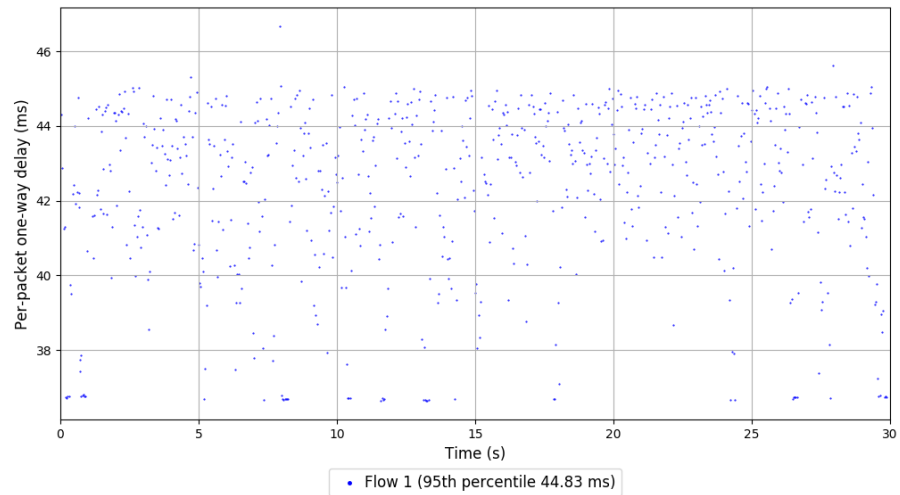Flow 1 (95th percentile 44.02 ms)

```
Run 7: Statistics of SCReAM

Start at: 2018-03-27 03:36:25
End at: 2018-03-27 03:36:55
Local clock offset: 3.295 ms
Remote clock offset: -1.721 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 46.049 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 46.049 ms
Loss rate: 2.82%
```

Run 7: Report of SCReAM — Data Link

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

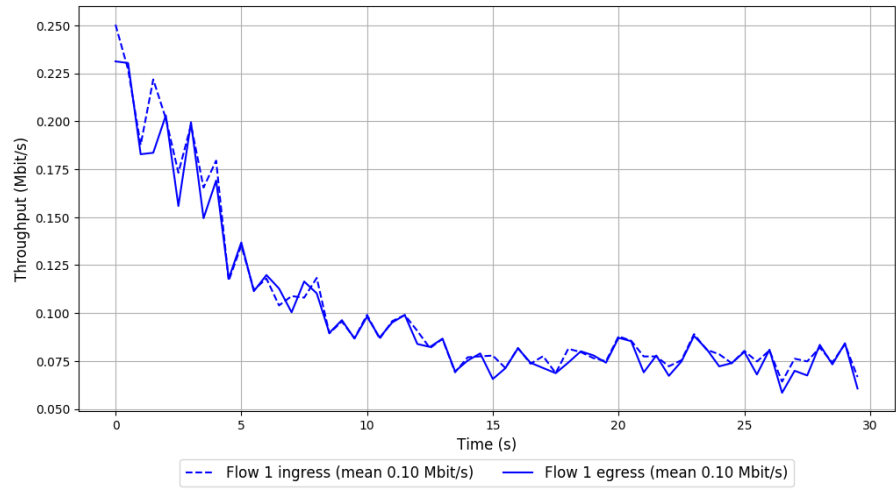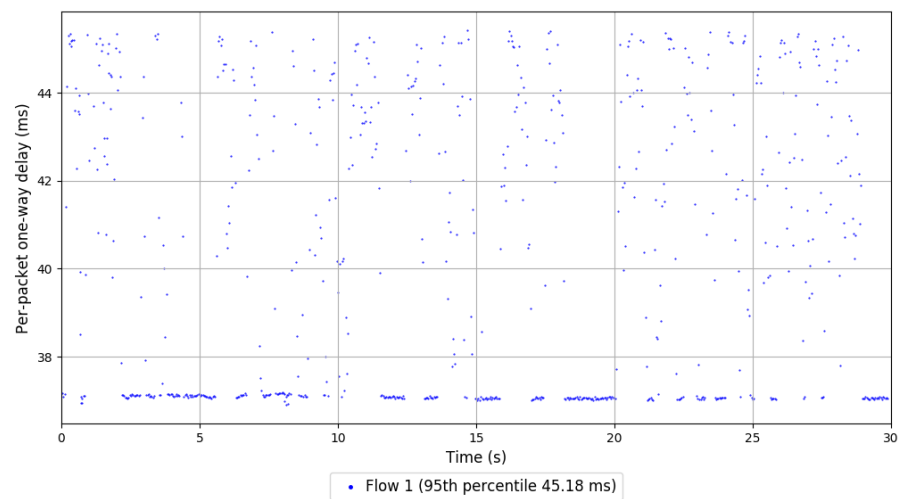Flow 1 (95th percentile 46.05 ms)

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```
Run 8: Statistics of SCReAM

Start at: 2018-03-27 04:05:00
End at: 2018-03-27 04:05:30
Local clock offset: -0.375 ms
Remote clock offset: -0.944 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 44.832 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 0.10 Mbit/s
95th percentile per-packet one-way delay: 44.832 ms
Loss rate: 2.88%
```

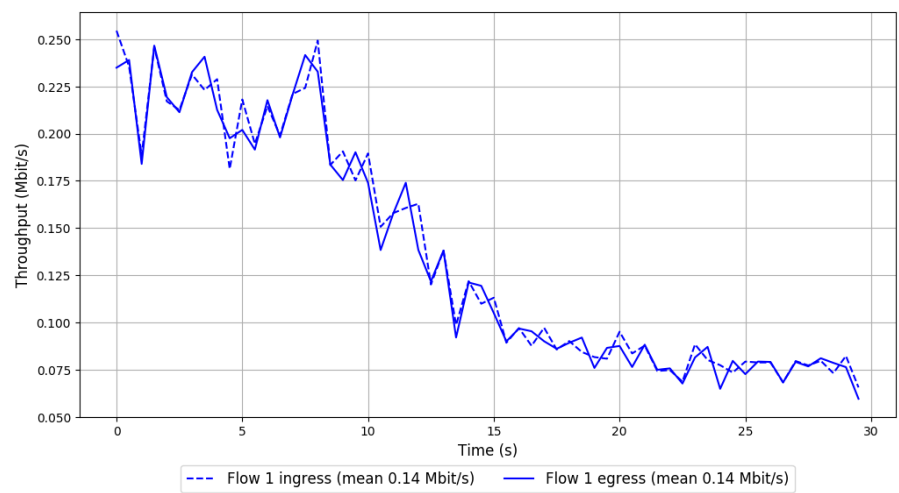## Run 8: Report of SCReAM — Data Link

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```
Run 9: Statistics of SCReAM

Start at: 2018-03-27 04:36:25
End at: 2018-03-27 04:36:55
Local clock offset: -0.276 ms
Remote clock offset: -1.639 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 45.178 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 45.178 ms
Loss rate: 1.03%
```
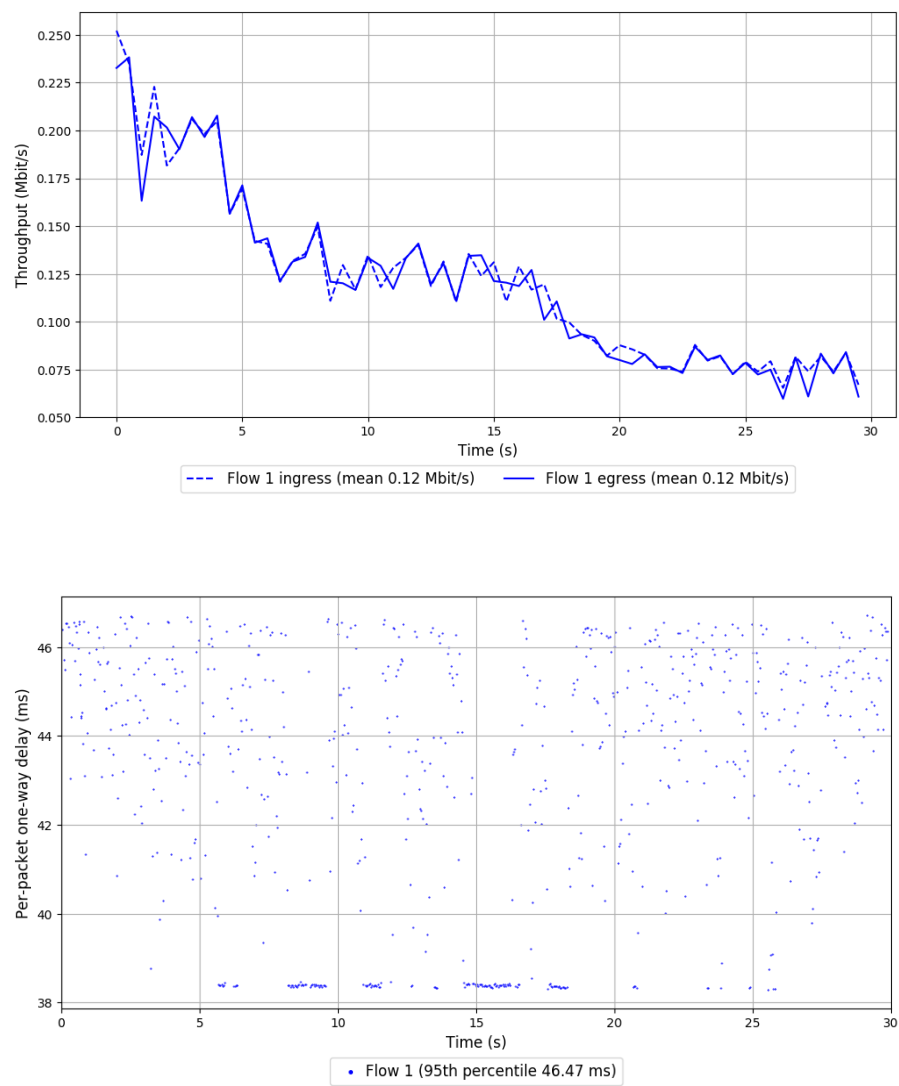
Run 9: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.14 Mbit/s) ---- Flow 1 egress (mean 0.14 Mbit/s) ——

Flow 1 (95th percentile 45.18 ms)

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```
Run 10: Statistics of SCReAM

Start at: 2018-03-27 05:04:14
End at: 2018-03-27 05:04:44
Local clock offset: 0.252 ms
Remote clock offset: -4.214 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 46.465 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 46.465 ms
Loss rate: 1.11%
```
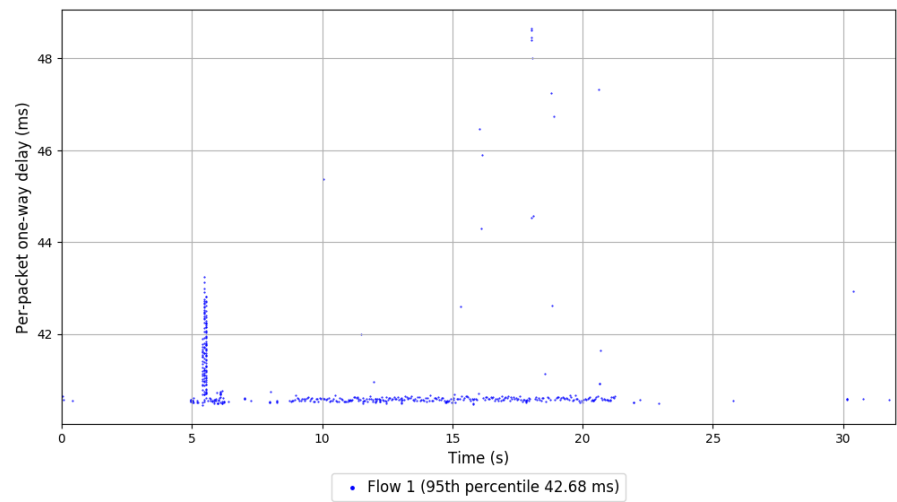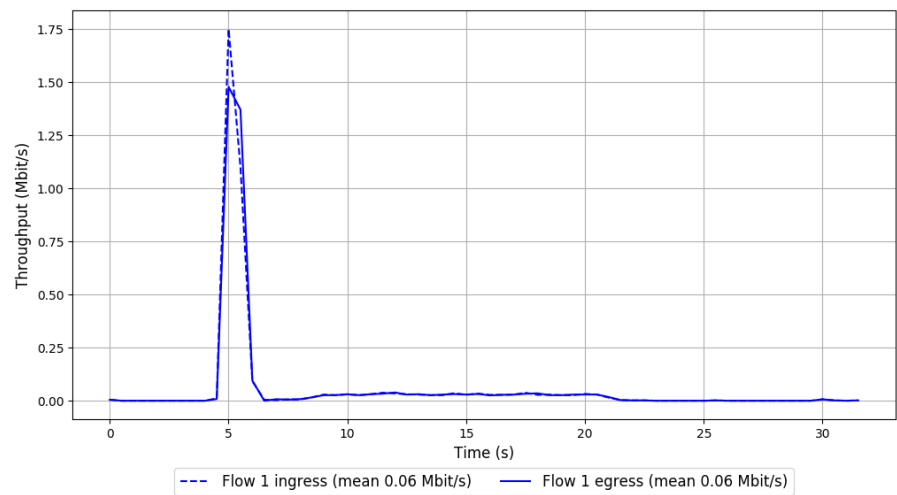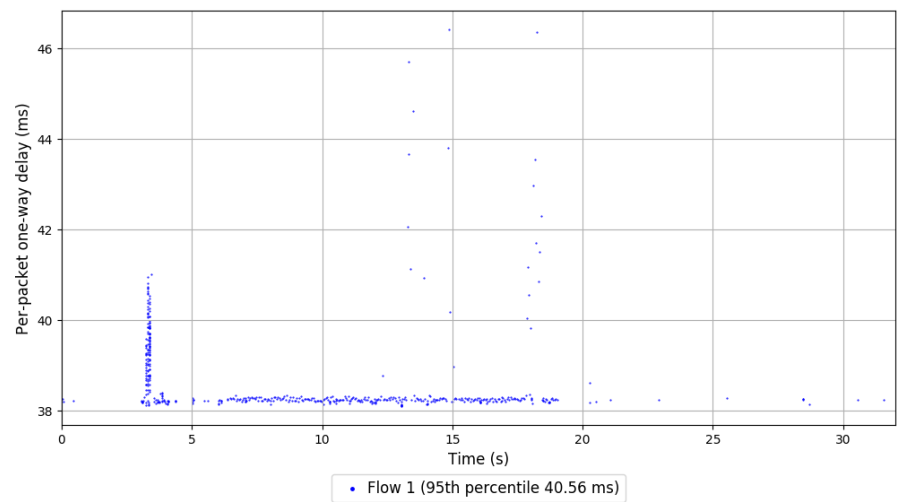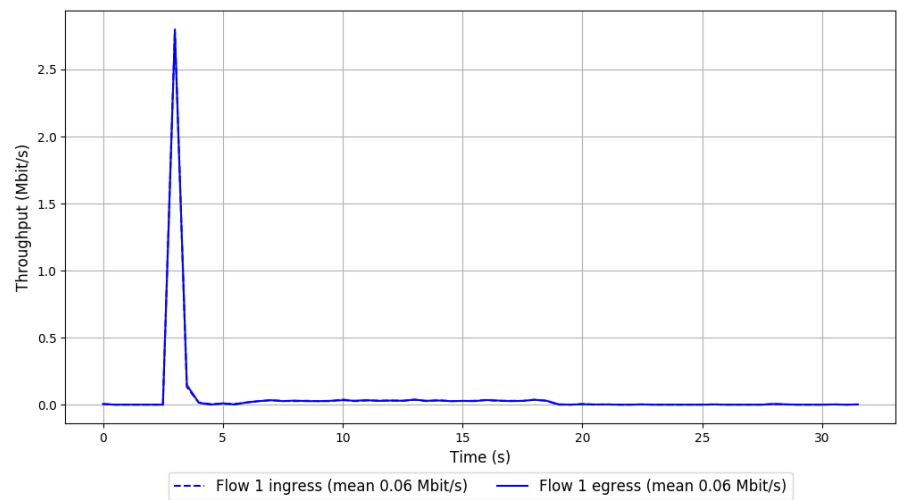
Run 10: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.12 Mbit/s) --- Flow 1 egress (mean 0.12 Mbit/s)

Flow 1 (95th percentile 46.47 ms)

123

```
Run 1: Statistics of WebRTC media

Start at: 2018-03-27 00:42:46
End at: 2018-03-27 00:43:16
Local clock offset: 4.577 ms
Remote clock offset: -4.402 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 42.678 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 42.678 ms
Loss rate: 0.11%
```
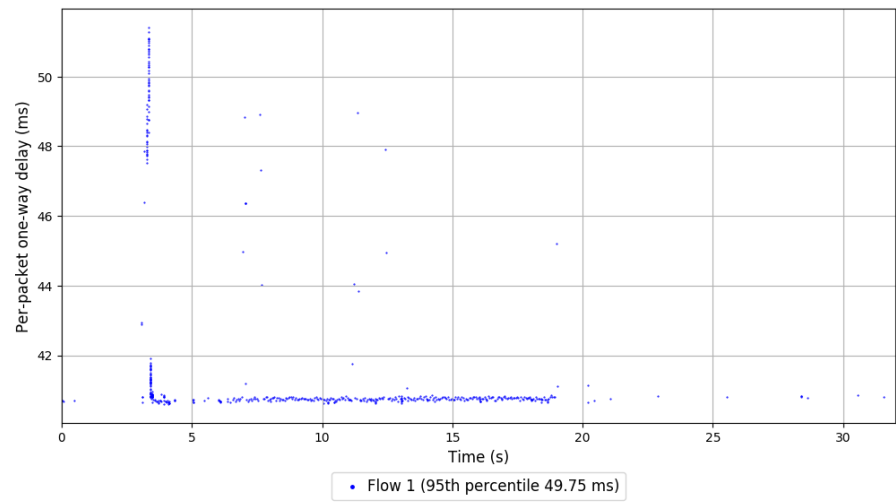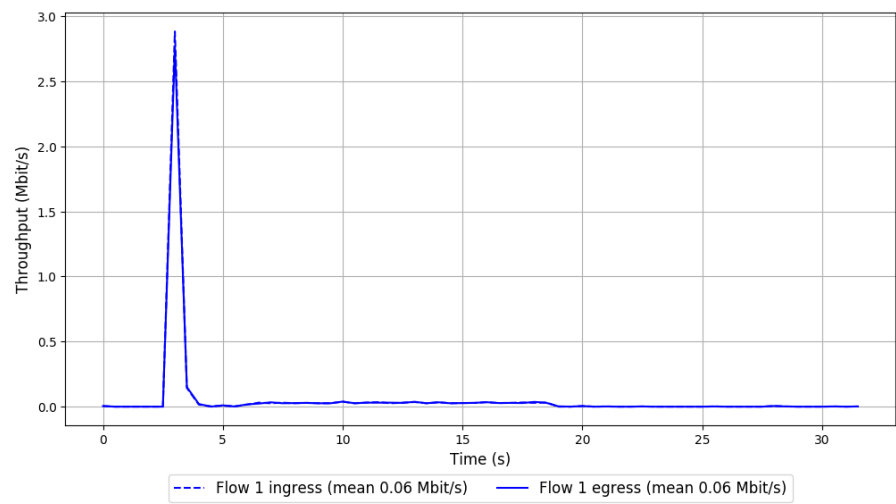
Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.06 Mbit/s) --- Flow 1 egress (mean 0.06 Mbit/s)

Flow 1 (95th percentile 42.68 ms)

125

```
Run 2: Statistics of WebRTC media

Start at: 2018-03-27 01:08:20
End at: 2018-03-27 01:08:50
Local clock offset: 6.796 ms
Remote clock offset: -1.723 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.565 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.565 ms
Loss rate: 0.07%
```
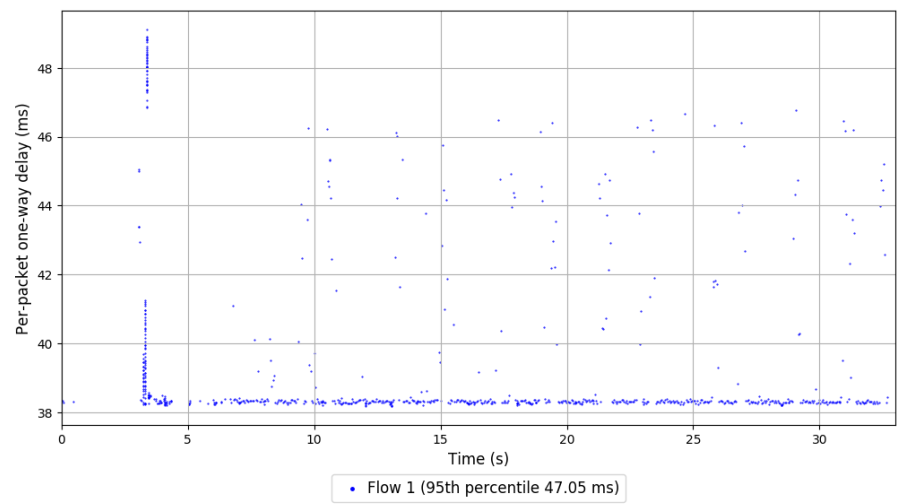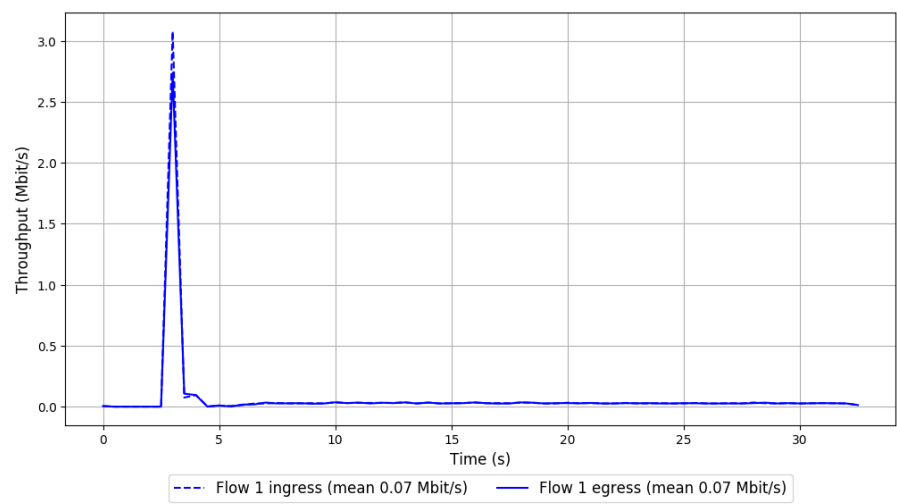
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-03-27 01:34:37
End at: 2018-03-27 01:35:07
Local clock offset: 1.241 ms
Remote clock offset: -3.879 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.749 ms
Loss rate: 2.75%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.749 ms
Loss rate: 2.75%
```
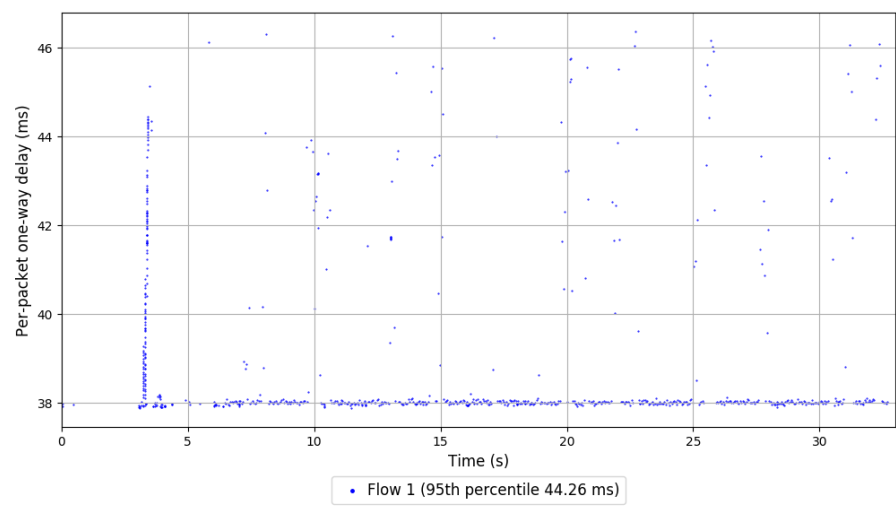
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-03-27 02:00:37
End at: 2018-03-27 02:01:07
Local clock offset: -0.372 ms
Remote clock offset: -1.842 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 47.055 ms
Loss rate: 6.69%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 47.055 ms
Loss rate: 6.69%
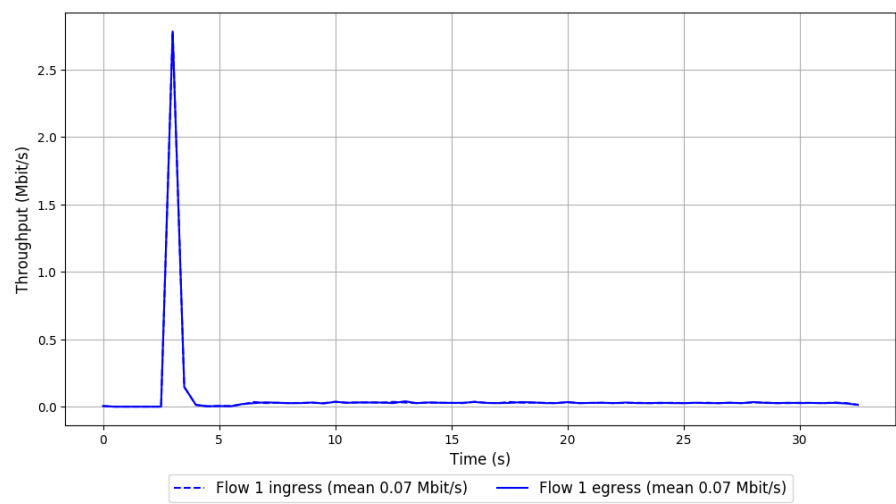```

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2018-03-27 02:27:15
End at: 2018-03-27 02:27:45
Local clock offset: 0.001 ms
Remote clock offset: -1.655 ms

Below is generated by plot.py at 2018-03-27 09:33:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 44.259 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 44.259 ms
Loss rate: 0.36%
```
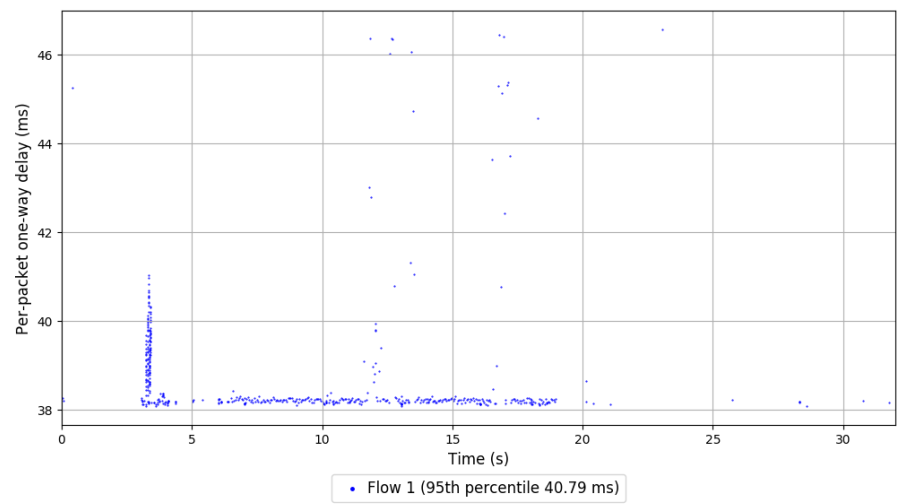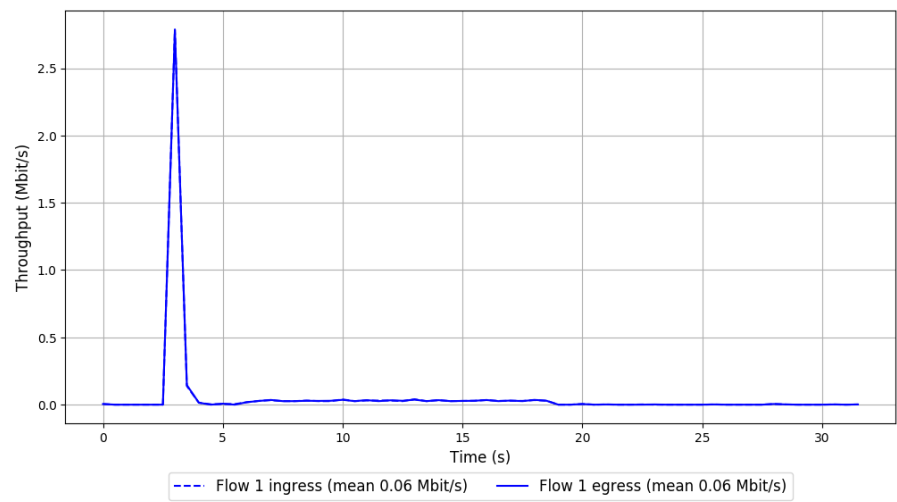
Run 5: Report of WebRTC media — Data Link



Flow 1 ingress (mean 0.07 Mbit/s)    Flow 1 egress (mean 0.07 Mbit/s)



Flow 1 (95th percentile 44.26 ms)

```
Run 6: Statistics of WebRTC media

Start at: 2018-03-27 02:54:00
End at: 2018-03-27 02:54:30
Local clock offset: 6.83 ms
Remote clock offset: -2.27 ms

Below is generated by plot.py at 2018-03-27 09:33:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.787 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.787 ms
Loss rate: 0.07%
```
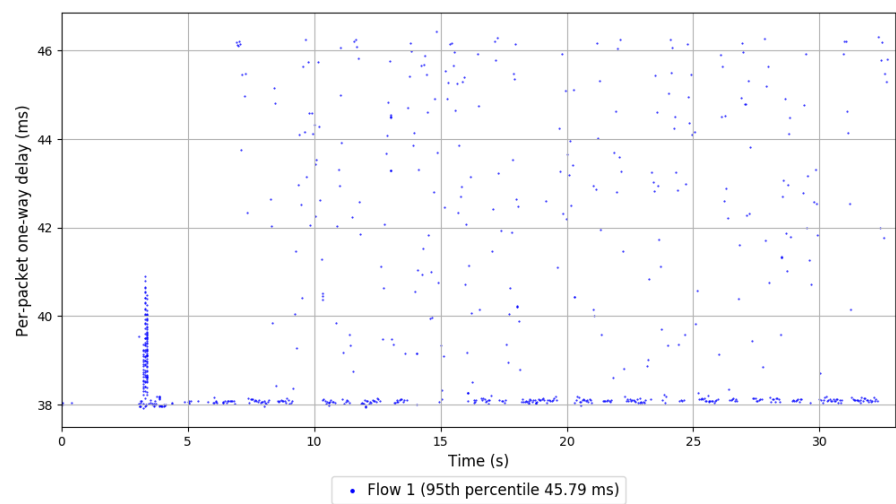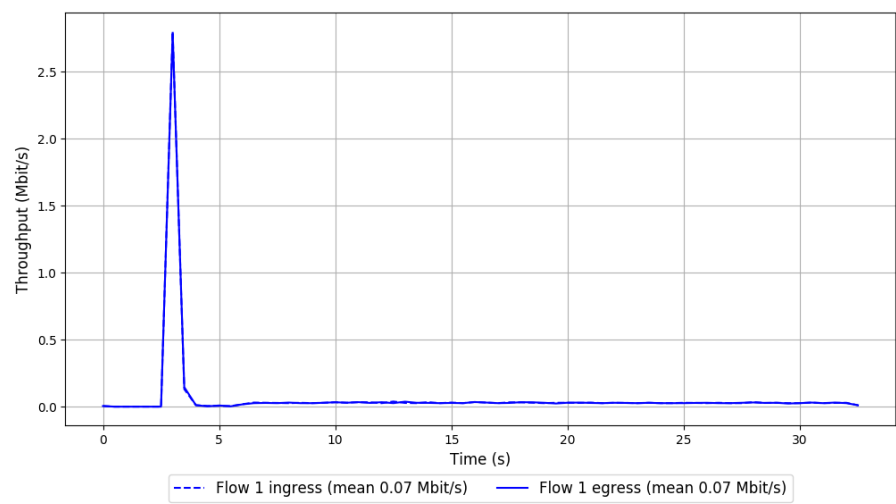
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-03-27 03:20:08
End at: 2018-03-27 03:20:38
Local clock offset: 3.87 ms
Remote clock offset: -1.68 ms

Below is generated by plot.py at 2018-03-27 09:33:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 45.788 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 45.788 ms
Loss rate: 0.47%
```
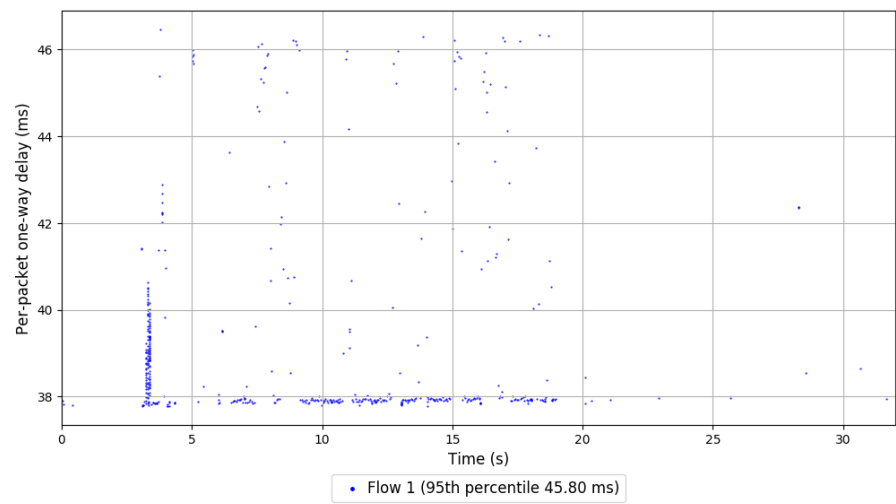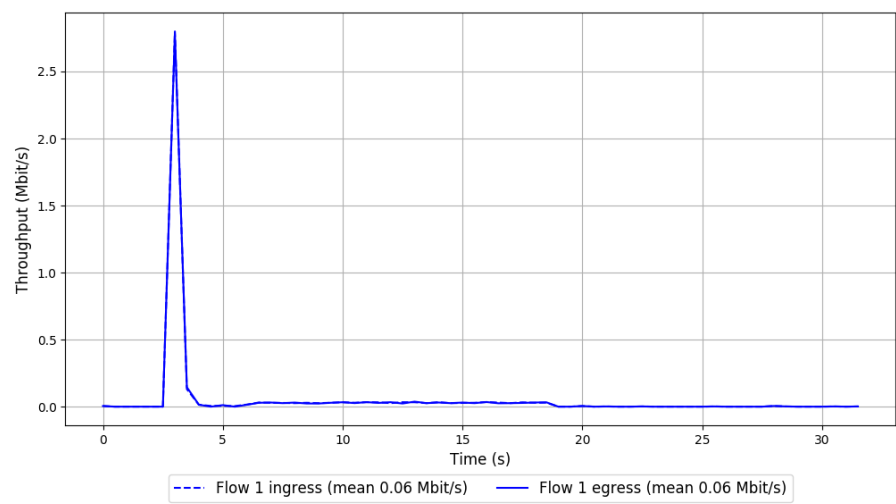
Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-03-27 03:48:17
End at: 2018-03-27 03:48:47
Local clock offset: 0.845 ms
Remote clock offset: -1.163 ms

Below is generated by plot.py at 2018-03-27 09:33:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 45.798 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 45.798 ms
Loss rate: 0.64%
```
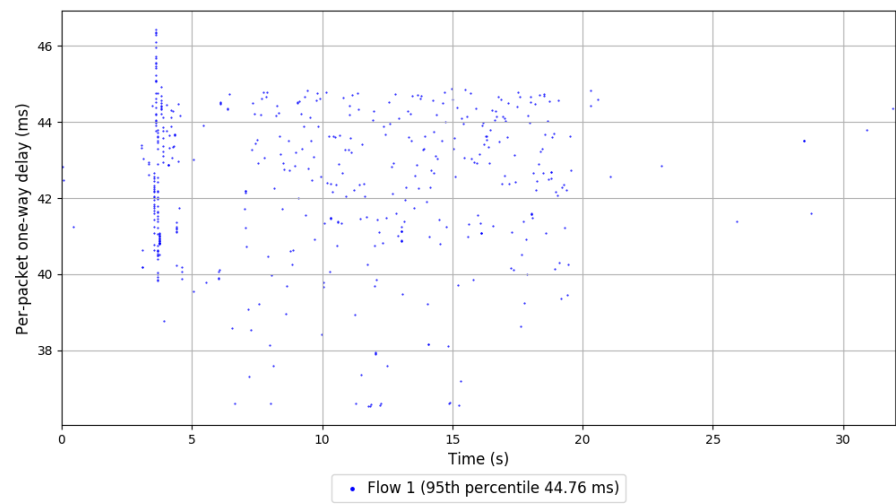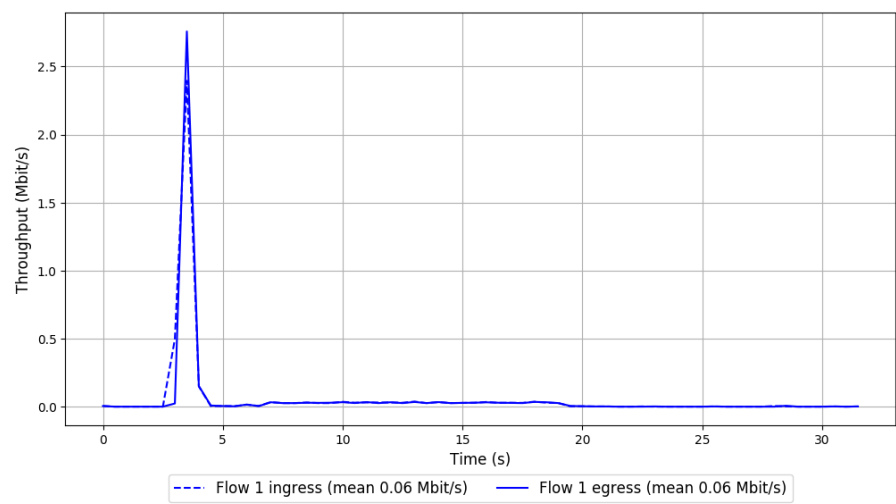
Run 8: Report of WebRTC media — Data Link





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```
Run 9: Statistics of WebRTC media

Start at: 2018-03-27 04:18:15
End at: 2018-03-27 04:18:45
Local clock offset: -0.303 ms
Remote clock offset: -1.083 ms

Below is generated by plot.py at 2018-03-27 09:33:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 44.760 ms
Loss rate: 2.99%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 44.760 ms
Loss rate: 2.99%
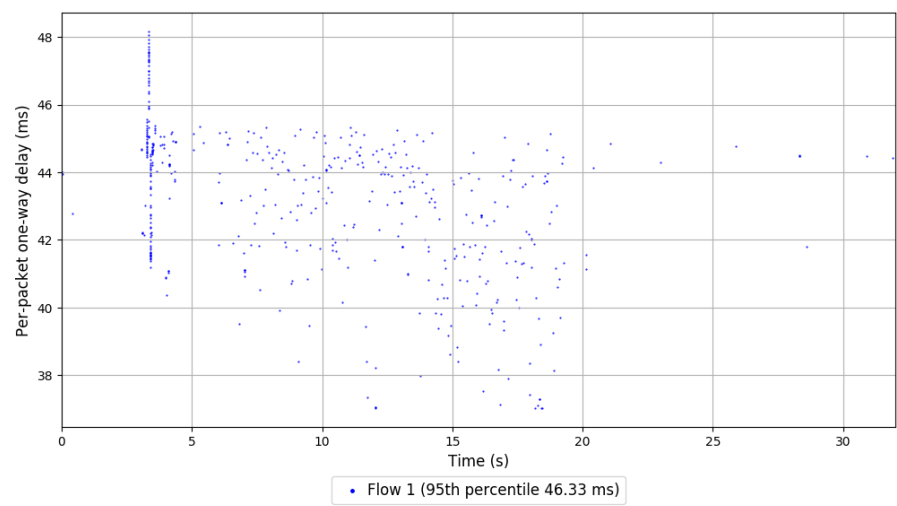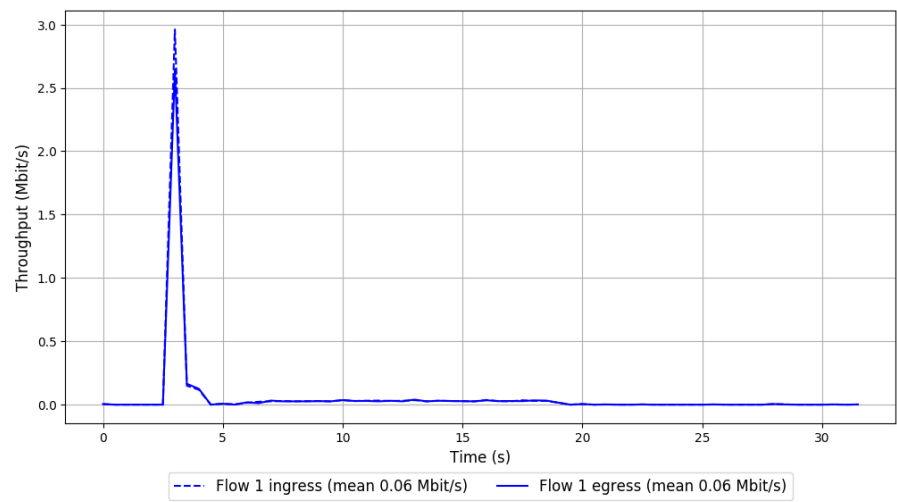```

Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-03-27 04:48:51
End at: 2018-03-27 04:49:21
Local clock offset: -0.138 ms
Remote clock offset: -2.163 ms


# Below is generated by plot.py at 2018-03-27 09:33:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 46.326 ms
Loss rate: 7.62%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 46.326 ms
Loss rate: 7.62%
```
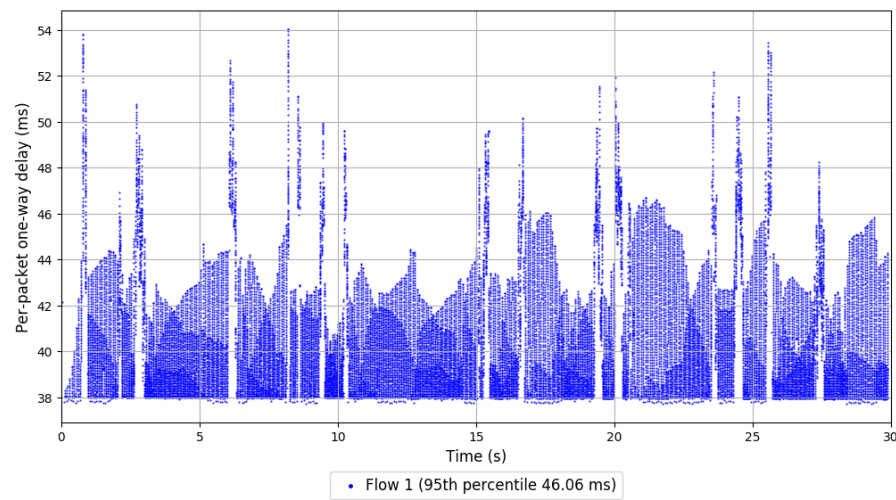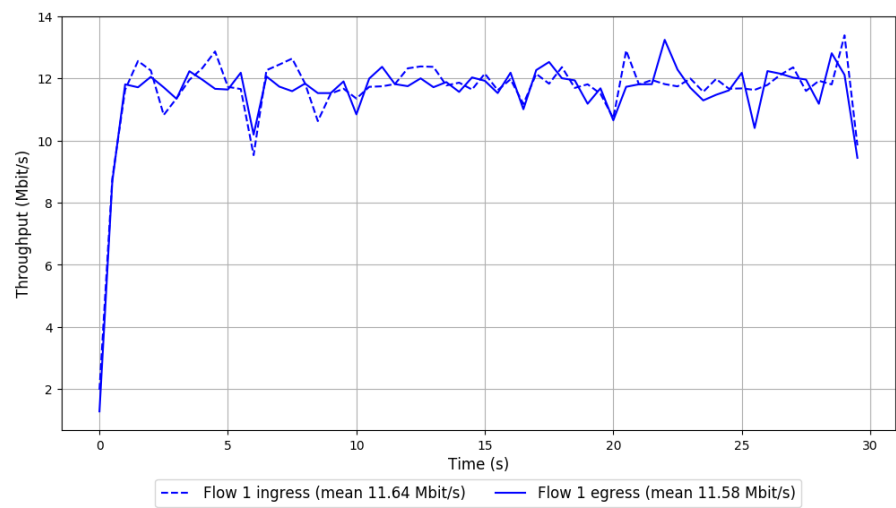
Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2018-03-27 00:49:41
End at: 2018-03-27 00:50:11
Local clock offset: 5.198 ms
Remote clock offset: -1.685 ms


# Below is generated by plot.py at 2018-03-27 09:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 46.056 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 46.056 ms
Loss rate: 0.72%
```

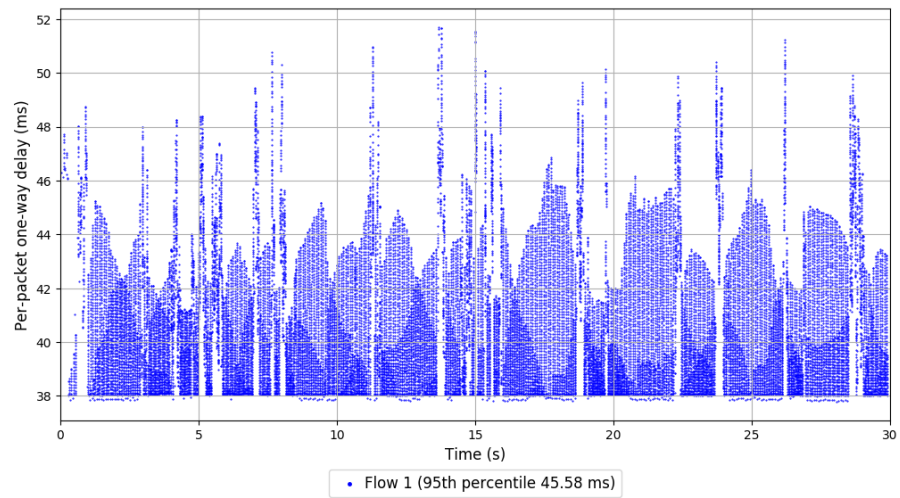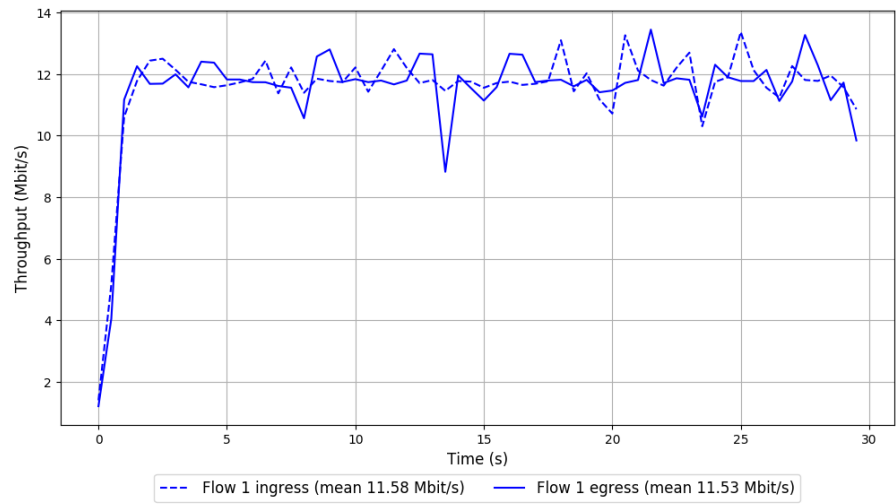Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-03-27 01:15:47
End at: 2018-03-27 01:16:17
Local clock offset: 7.32 ms
Remote clock offset: -1.116 ms


# Below is generated by plot.py at 2018-03-27 09:33:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 45.583 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 11.53 Mbit/s
95th percentile per-packet one-way delay: 45.583 ms
Loss rate: 0.66%
```

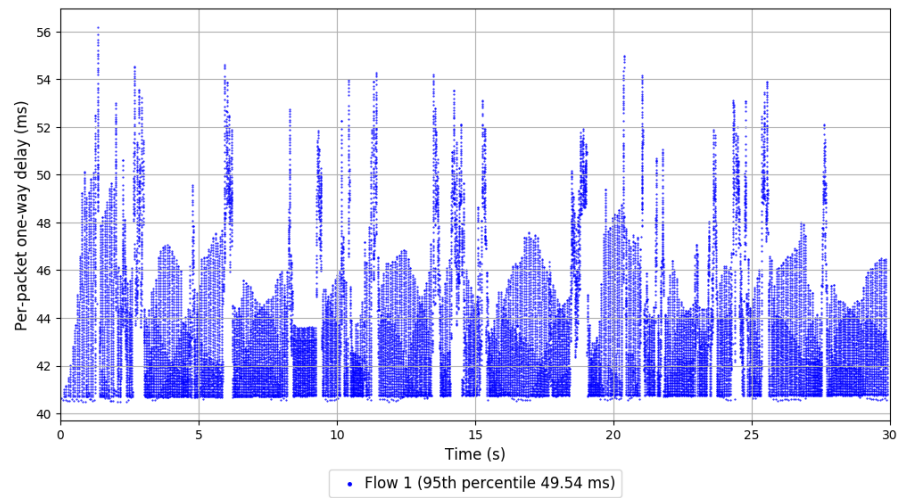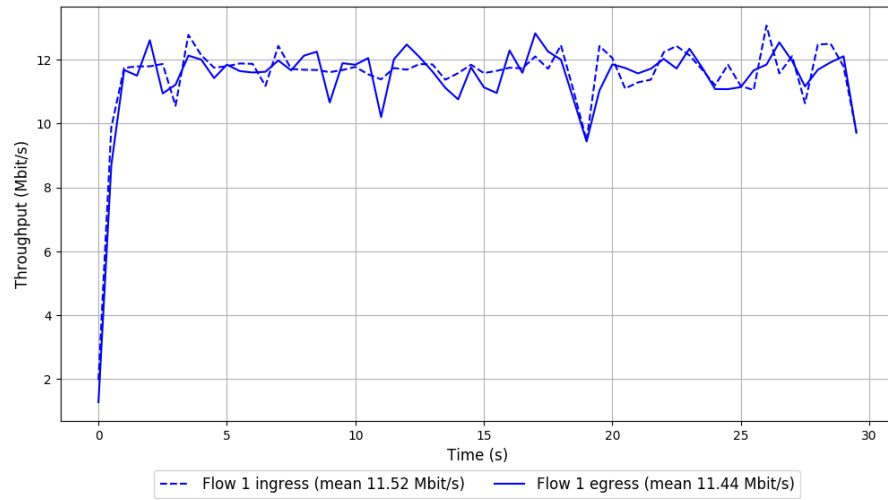Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-03-27 01:41:56
End at: 2018-03-27 01:42:26
Local clock offset: 0.121 ms
Remote clock offset: -3.802 ms


# Below is generated by plot.py at 2018-03-27 09:33:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 49.538 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 49.538 ms
Loss rate: 0.90%
```

Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 11.52 Mbit/s)   Flow 1 egress (mean 11.44 Mbit/s)

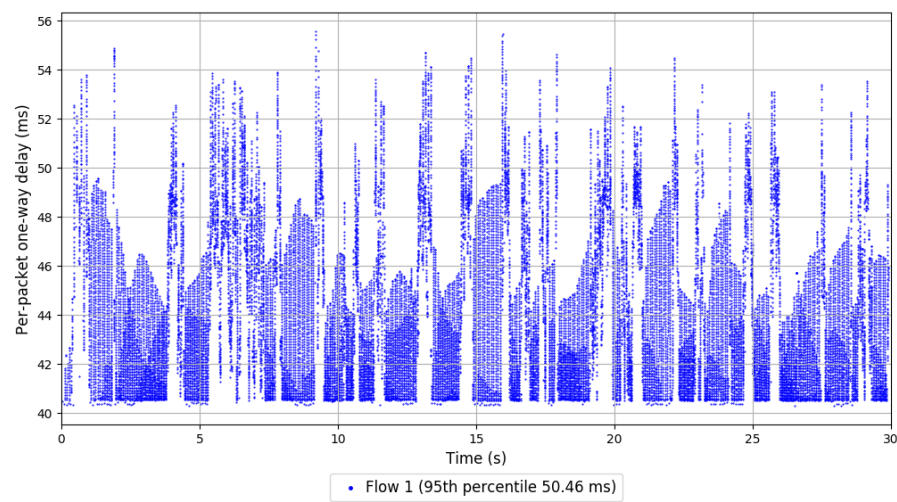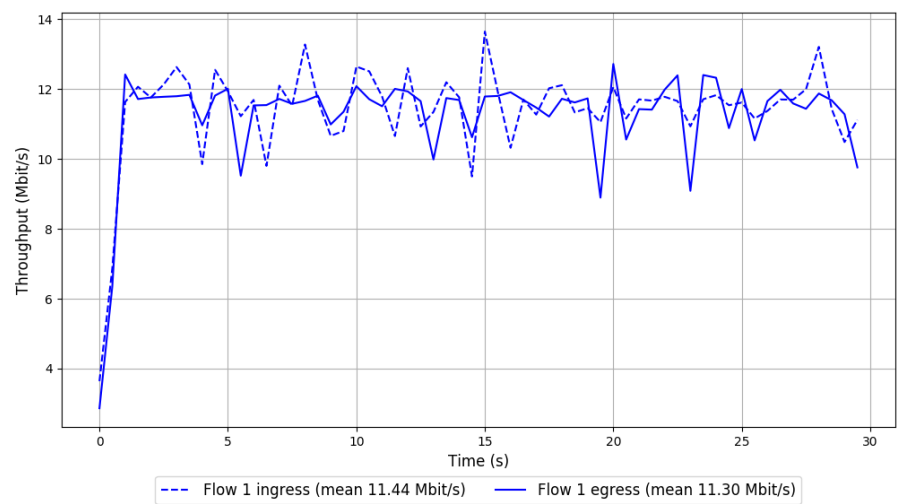

Flow 1 (95th percentile 49.54 ms)

```
Run 4: Statistics of Sprout

Start at: 2018-03-27 02:08:27
End at: 2018-03-27 02:08:57
Local clock offset: -0.018 ms
Remote clock offset: -3.985 ms


# Below is generated by plot.py at 2018-03-27 09:33:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 50.456 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 11.30 Mbit/s
95th percentile per-packet one-way delay: 50.456 ms
Loss rate: 1.43%
```

Run 4: Report of Sprout — Data Link

Flow 1 ingress (mean 11.44 Mbit/s) Flow 1 egress (mean 11.30 Mbit/s)

Flow 1 (95th percentile 50.46 ms)

```
Run 5: Statistics of Sprout

Start at: 2018-03-27 02:34:33
End at: 2018-03-27 02:35:03
Local clock offset: 3.093 ms
Remote clock offset: -2.06 ms


# Below is generated by plot.py at 2018-03-27 09:33:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 45.918 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 45.918 ms
Loss rate: 0.61%
```
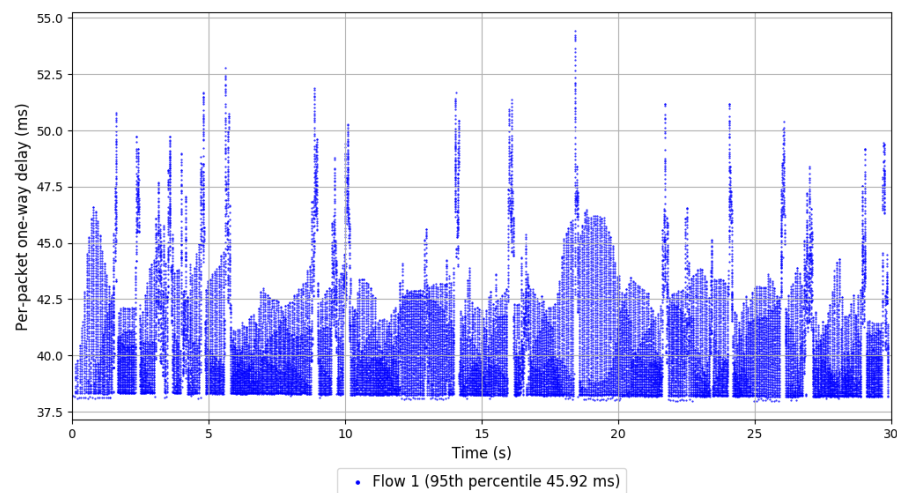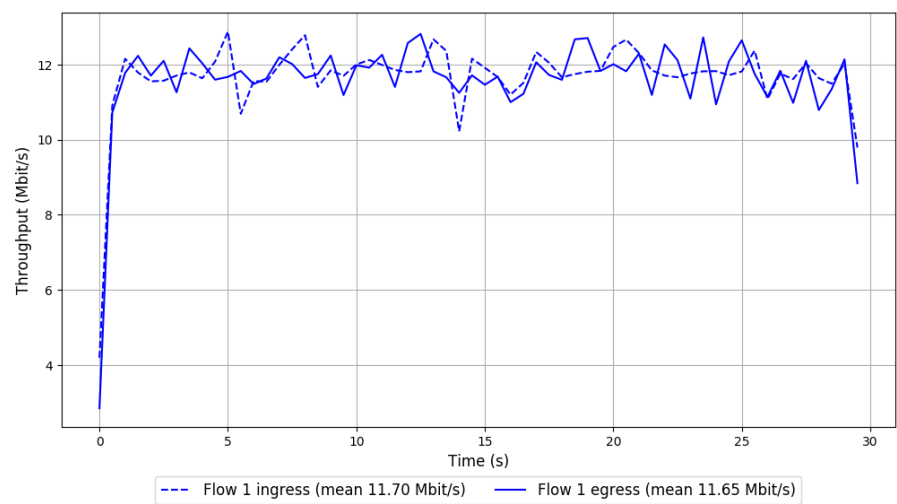
Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 11.70 Mbit/s)   Flow 1 egress (mean 11.65 Mbit/s)

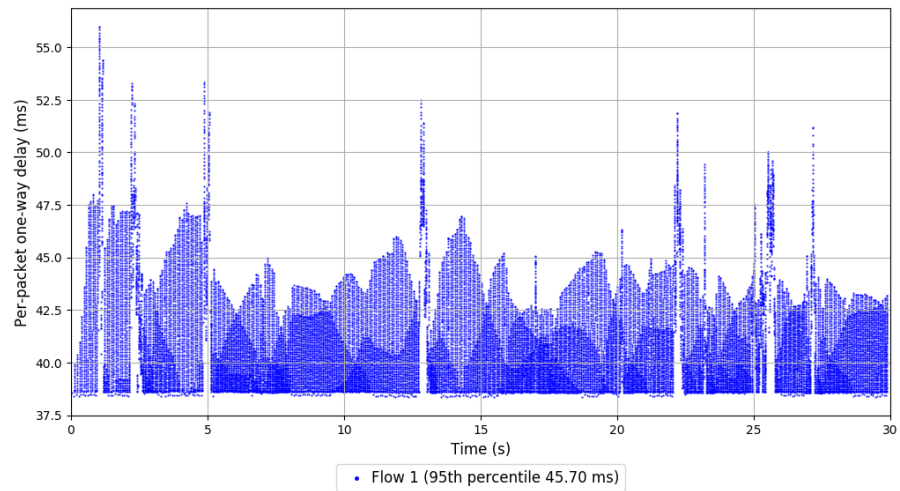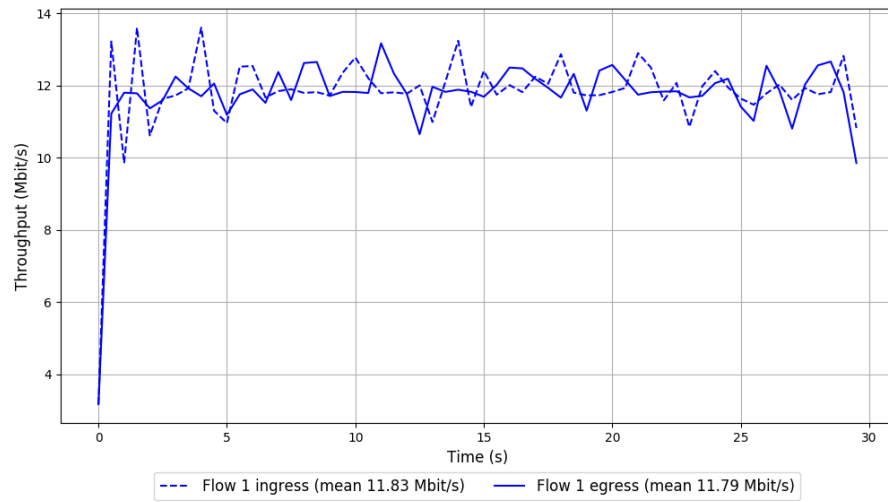Flow 1 (95th percentile 45.92 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-03-27 03:01:12
End at: 2018-03-27 03:01:42
Local clock offset: 7.528 ms
Remote clock offset: -2.392 ms


# Below is generated by plot.py at 2018-03-27 09:33:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 45.704 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 45.704 ms
Loss rate: 0.59%
```

Run 6: Report of Sprout — Data Link

Flow 1 ingress (mean 11.83 Mbit/s) --- Flow 1 egress (mean 11.79 Mbit/s)

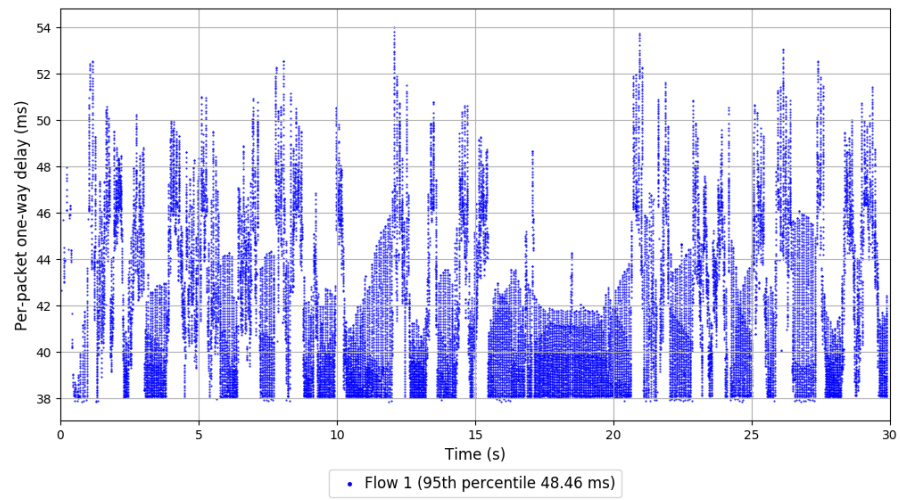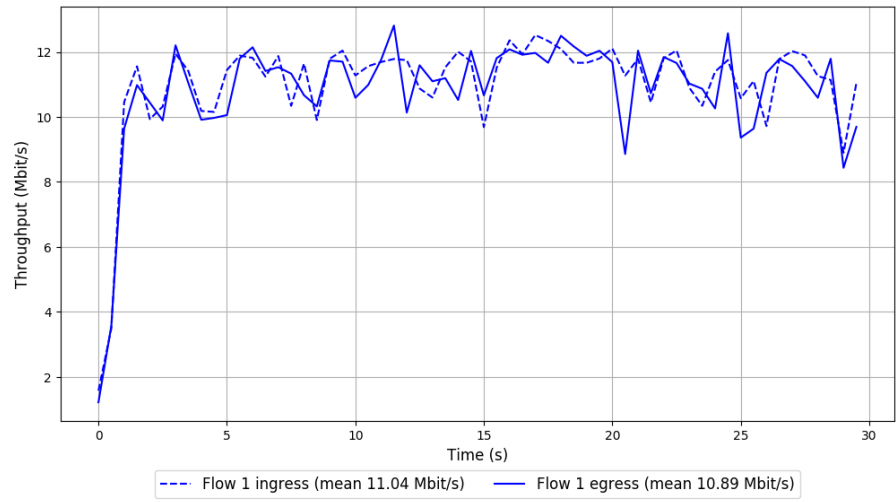Flow 1 (95th percentile 45.70 ms)

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```
Run 7: Statistics of Sprout

Start at: 2018-03-27 03:27:59
End at: 2018-03-27 03:28:29
Local clock offset: 3.425 ms
Remote clock offset: -1.698 ms


# Below is generated by plot.py at 2018-03-27 09:33:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 48.460 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 48.460 ms
Loss rate: 1.63%
```

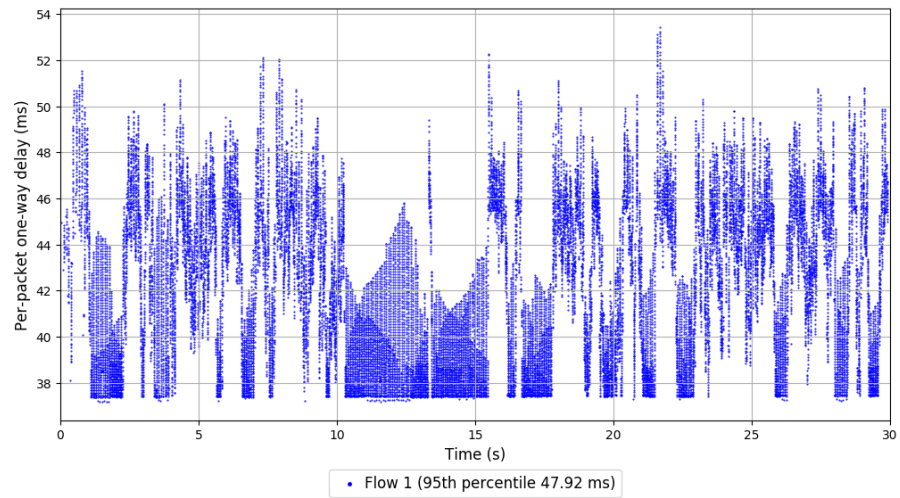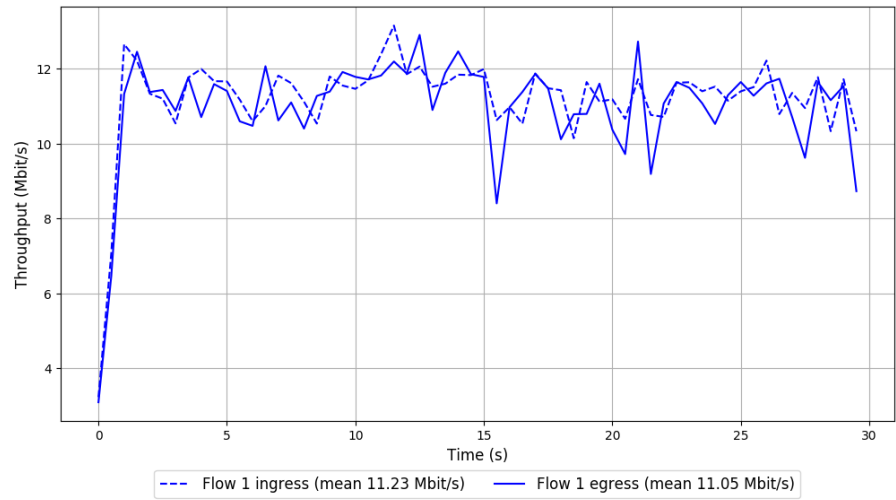Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2018-03-27 03:56:19
End at: 2018-03-27 03:56:49
Local clock offset: 0.167 ms
Remote clock offset: -1.546 ms


# Below is generated by plot.py at 2018-03-27 09:33:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 47.918 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 11.05 Mbit/s
95th percentile per-packet one-way delay: 47.918 ms
Loss rate: 1.91%
```

Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 11.23 Mbit/s) — Flow 1 egress (mean 11.05 Mbit/s)

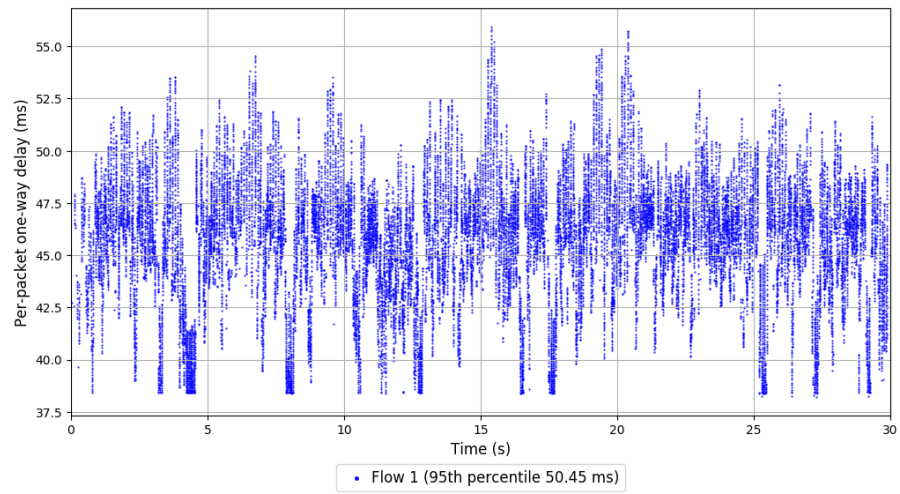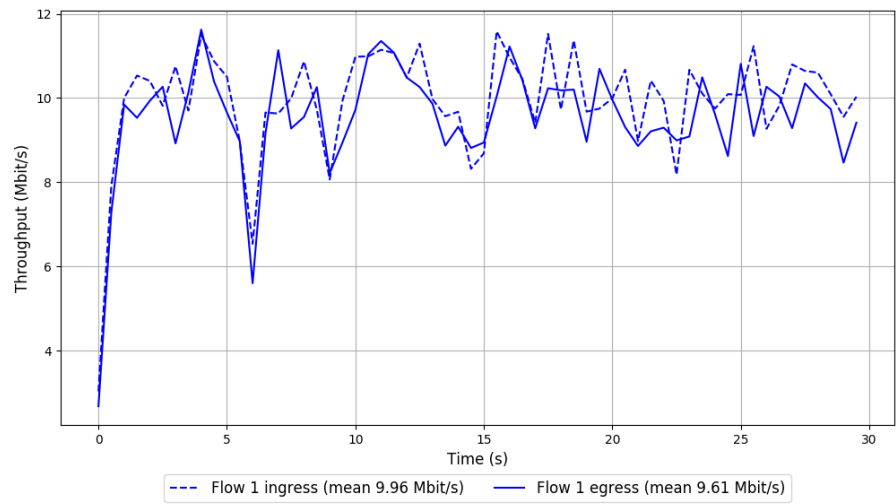Flow 1 (95th percentile 47.92 ms)

```
Run 9: Statistics of Sprout

Start at: 2018-03-27 04:27:57
End at: 2018-03-27 04:28:27
Local clock offset: -0.23 ms
Remote clock offset: -1.476 ms


# Below is generated by plot.py at 2018-03-27 09:33:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 50.447 ms
Loss rate: 3.80%
-- Flow 1:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 50.447 ms
Loss rate: 3.80%
```

Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 9.96 Mbit/s)   Flow 1 egress (mean 9.61 Mbit/s)

Flow 1 (95th percentile 50.45 ms)

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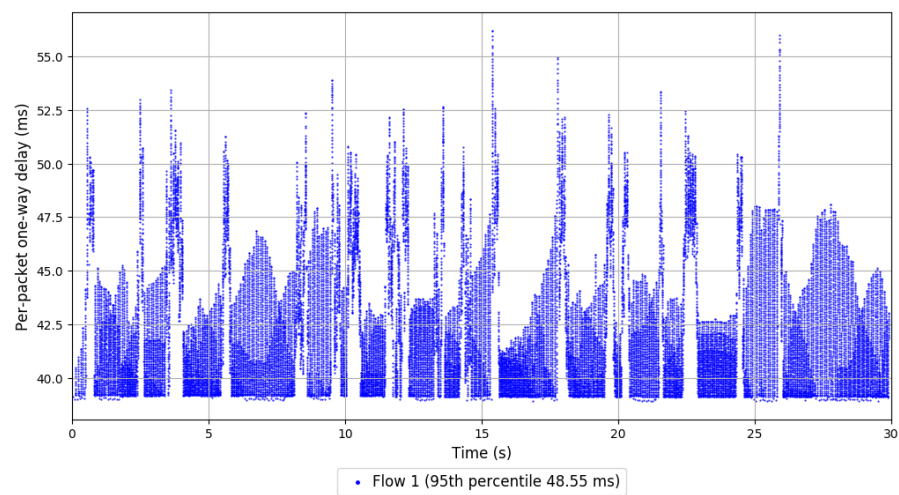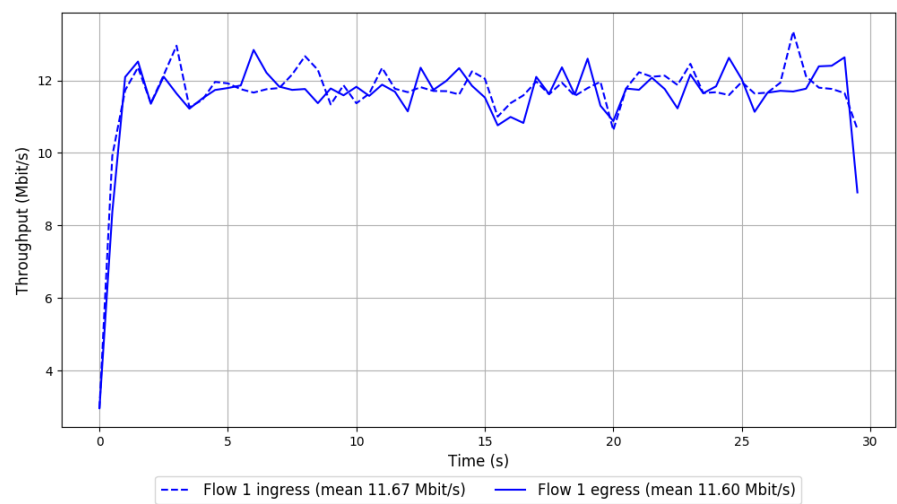Run 10: Statistics of Sprout

Start at: 2018-03-27 04:56:10
End at: 2018-03-27 04:56:40
Local clock offset: 0.168 ms
Remote clock offset: -5.442 ms

Below is generated by plot.py at 2018-03-27 09:33:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 48.549 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 48.549 ms
Loss rate: 0.90%

Run 10: Report of Sprout — Data Link

Flow 1 ingress (mean 11.67 Mbit/s)   Flow 1 egress (mean 11.60 Mbit/s)

Flow 1 (95th percentile 48.55 ms)

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

Start at: 2018-03-27 00:45:30
End at: 2018-03-27 00:46:00
Local clock offset: 4.611 ms
Remote clock offset: -2.297 ms


# Below is generated by plot.py at 2018-03-27 09:35:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 53.756 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 70.62 Mbit/s
95th percentile per-packet one-way delay: 53.756 ms
Loss rate: 0.65%
```
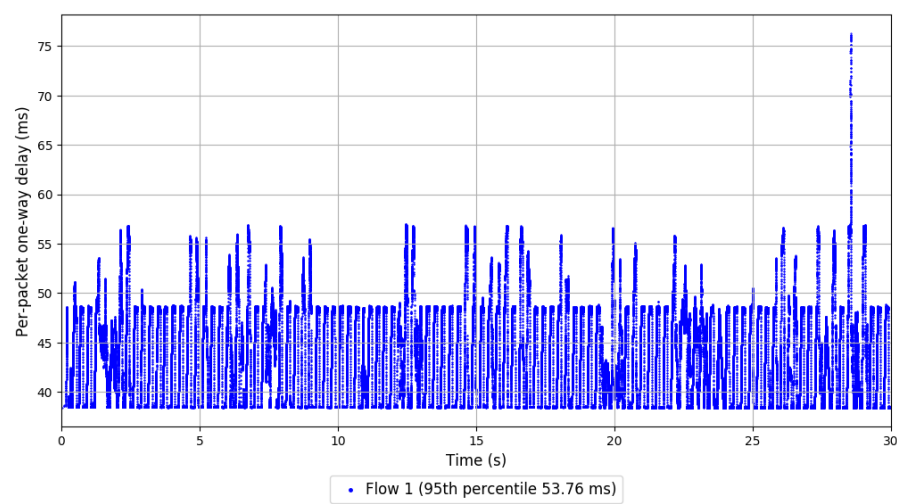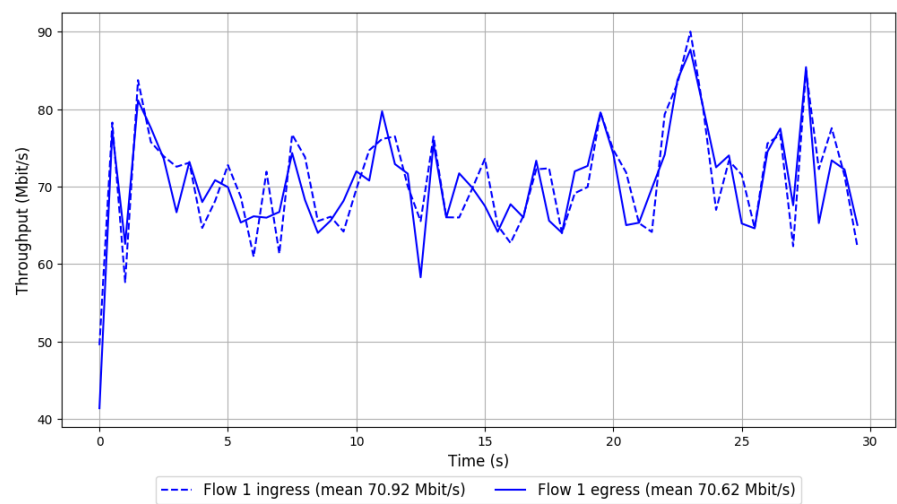
Run 1: Report of TaoVA-100x — Data Link

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

Start at: 2018-03-27 01:11:16
End at: 2018-03-27 01:11:46
Local clock offset: 7.089 ms
Remote clock offset: -1.292 ms


# Below is generated by plot.py at 2018-03-27 09:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.77 Mbit/s
95th percentile per-packet one-way delay: 52.750 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 74.77 Mbit/s
95th percentile per-packet one-way delay: 52.750 ms
Loss rate: 1.33%
```
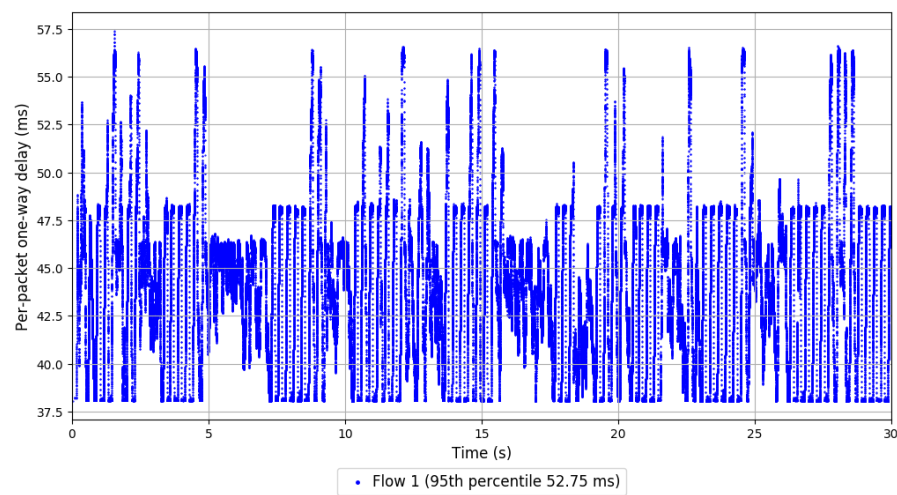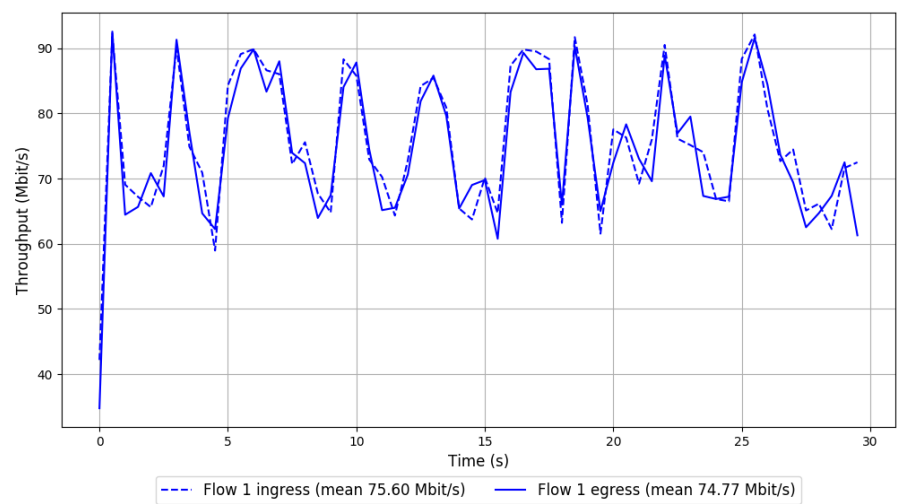
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 75.60 Mbit/s) Flow 1 egress (mean 74.77 Mbit/s)

Flow 1 (95th percentile 52.75 ms)

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

Start at: 2018-03-27 01:37:27
End at: 2018-03-27 01:37:57
Local clock offset: 0.749 ms
Remote clock offset: -1.725 ms


# Below is generated by plot.py at 2018-03-27 09:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.29 Mbit/s
95th percentile per-packet one-way delay: 55.534 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 71.29 Mbit/s
95th percentile per-packet one-way delay: 55.534 ms
Loss rate: 1.29%
```
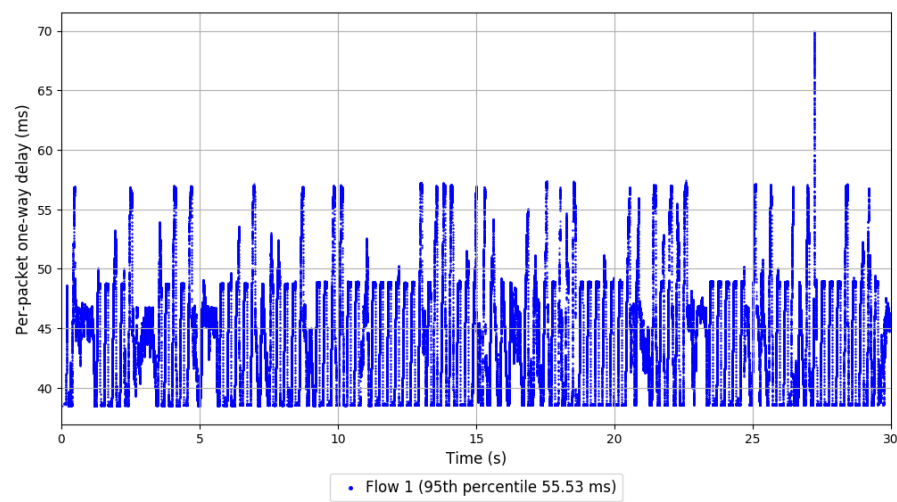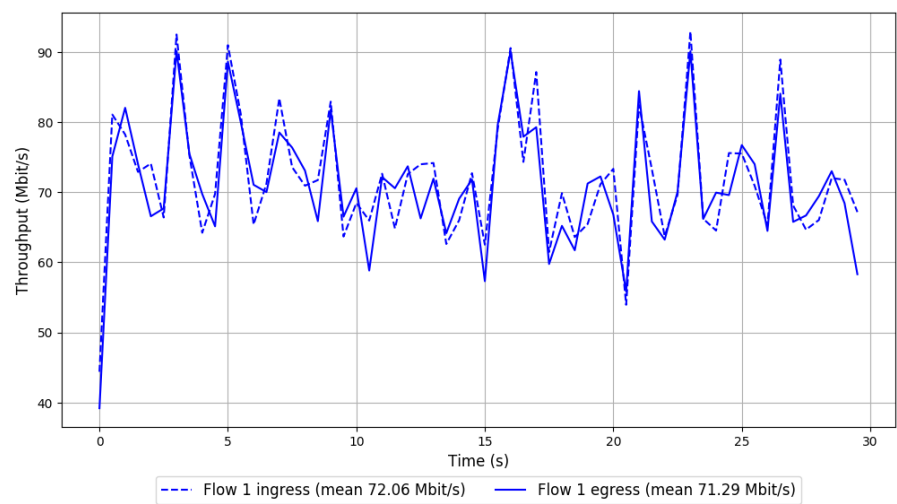
Run 3: Report of TaoVA-100x — Data Link
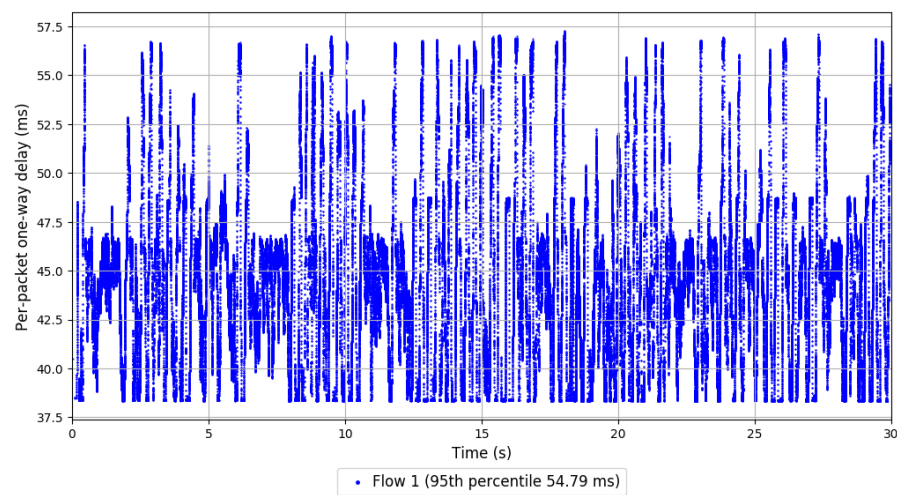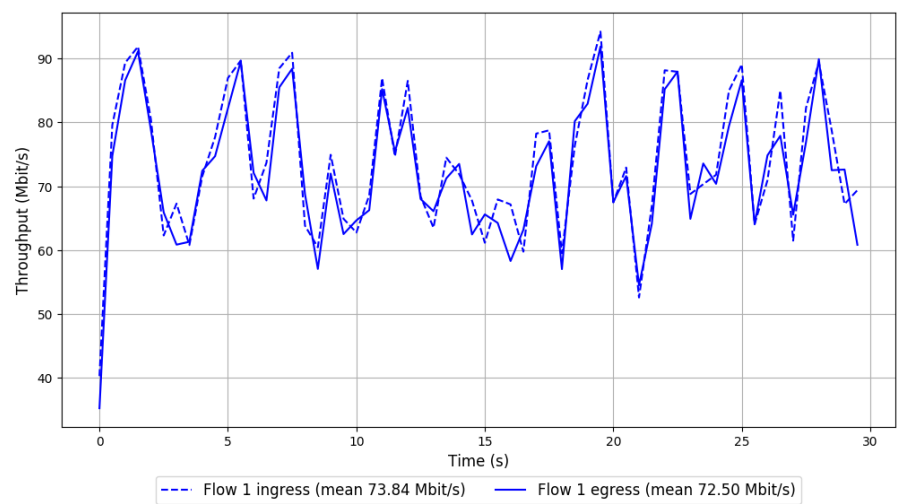

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```
Run 4: Statistics of TaoVA-100x

Start at: 2018-03-27 02:03:29
End at: 2018-03-27 02:03:59
Local clock offset: -0.18 ms
Remote clock offset: -1.894 ms


# Below is generated by plot.py at 2018-03-27 09:35:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.50 Mbit/s
95th percentile per-packet one-way delay: 54.794 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 72.50 Mbit/s
95th percentile per-packet one-way delay: 54.794 ms
Loss rate: 2.05%
```

Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 73.84 Mbit/s) ----- Flow 1 egress (mean 72.50 Mbit/s)

Flow 1 (95th percentile 54.79 ms)

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

Start at: 2018-03-27 02:30:05
End at: 2018-03-27 02:30:35
Local clock offset: 0.749 ms
Remote clock offset: -1.622 ms


# Below is generated by plot.py at 2018-03-27 09:35:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.67 Mbit/s
95th percentile per-packet one-way delay: 51.587 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 72.67 Mbit/s
95th percentile per-packet one-way delay: 51.587 ms
Loss rate: 1.15%
```
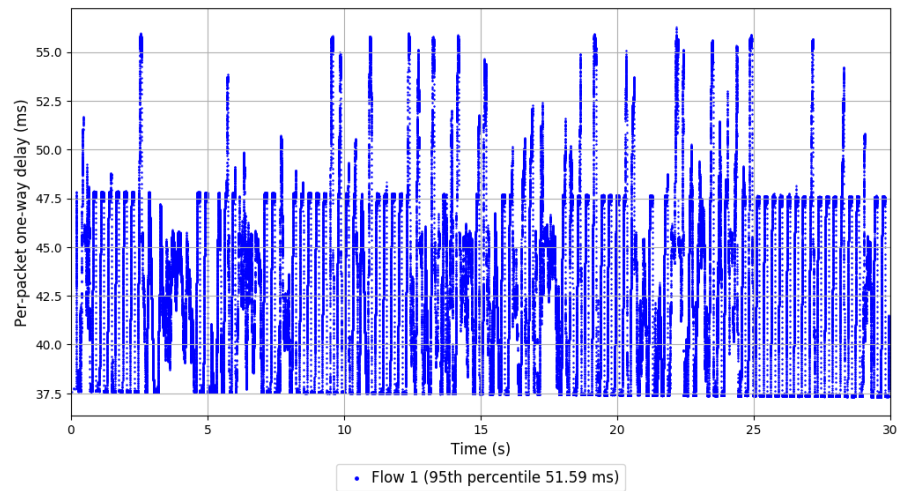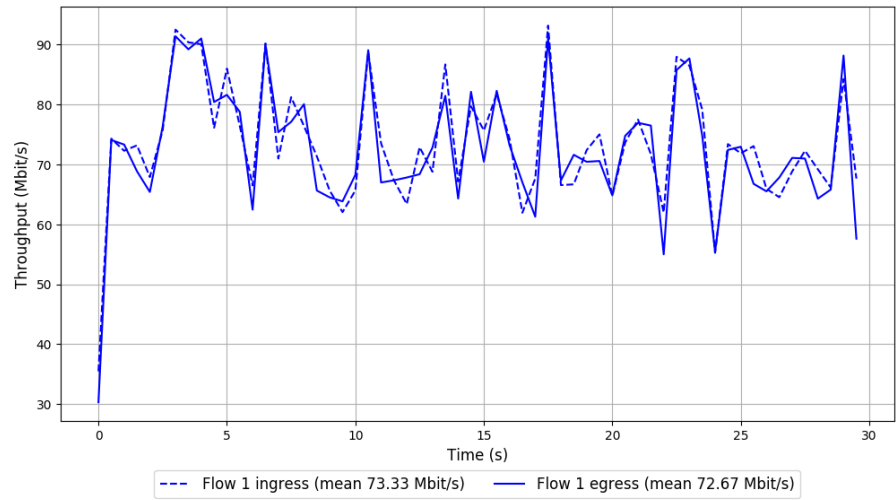
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 73.33 Mbit/s) --- Flow 1 egress (mean 72.67 Mbit/s) ———

Flow 1 (95th percentile 51.59 ms)

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

Start at: 2018-03-27 02:56:48
End at: 2018-03-27 02:57:18
Local clock offset: 7.055 ms
Remote clock offset: -2.345 ms

# Below is generated by plot.py at 2018-03-27 09:35:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 52.856 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 71.11 Mbit/s
95th percentile per-packet one-way delay: 52.856 ms
Loss rate: 1.03%
```
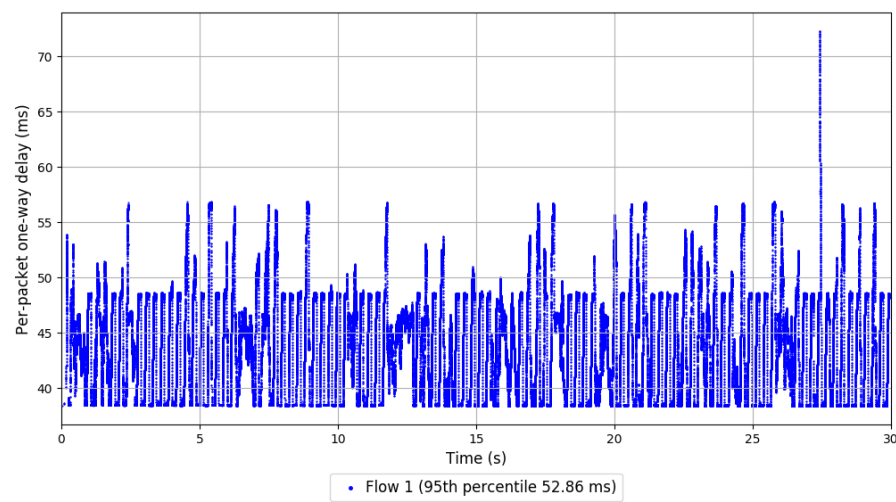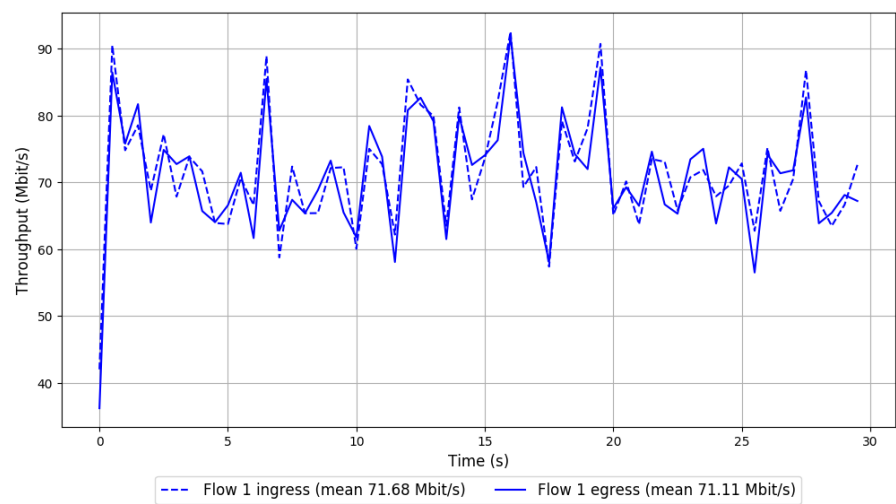
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 71.68 Mbit/s) --- Flow 1 egress (mean 71.11 Mbit/s)

• Flow 1 (95th percentile 52.86 ms)

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

Start at: 2018-03-27 03:23:02
End at: 2018-03-27 03:23:32
Local clock offset: 3.7 ms
Remote clock offset: -1.643 ms


# Below is generated by plot.py at 2018-03-27 09:36:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.14 Mbit/s
95th percentile per-packet one-way delay: 50.627 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 80.14 Mbit/s
95th percentile per-packet one-way delay: 50.627 ms
Loss rate: 2.21%
```
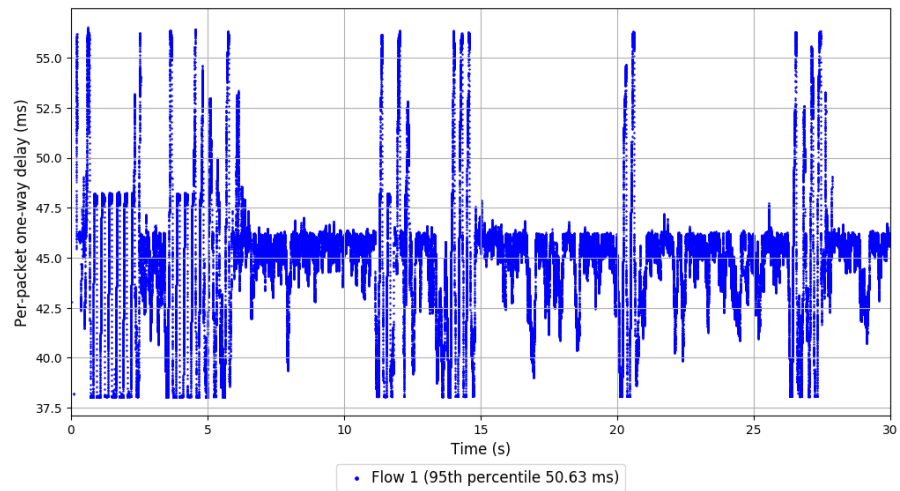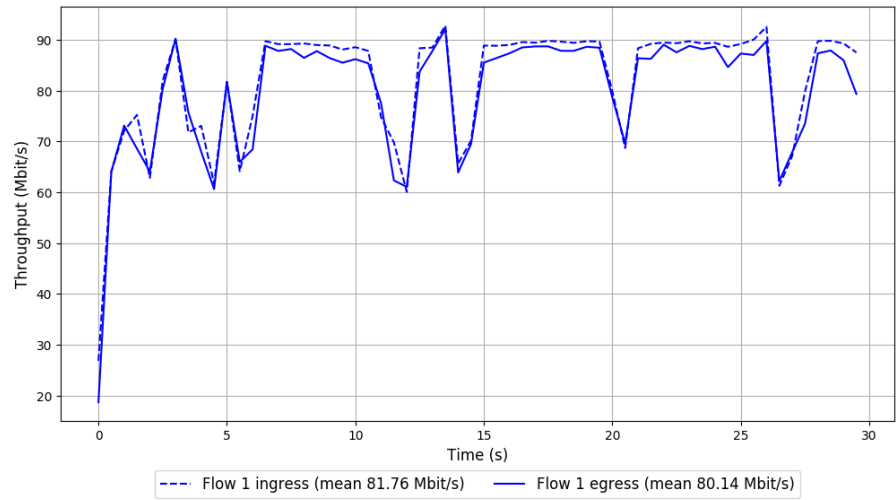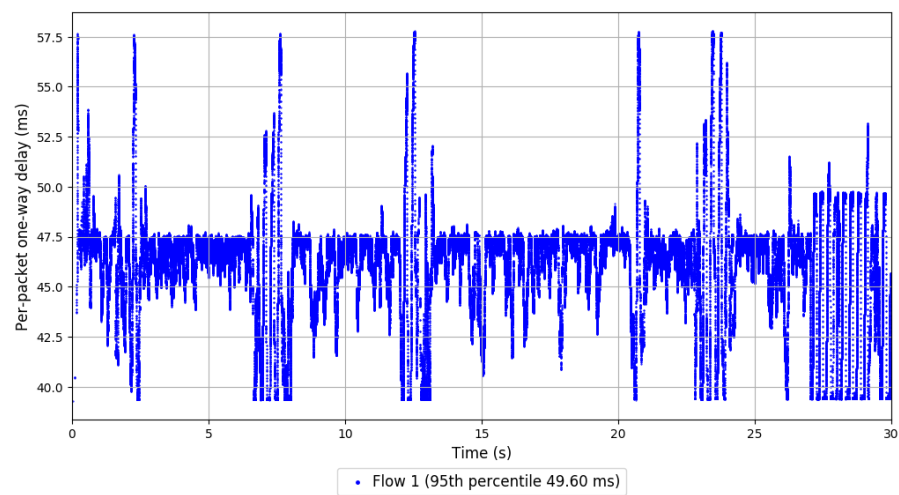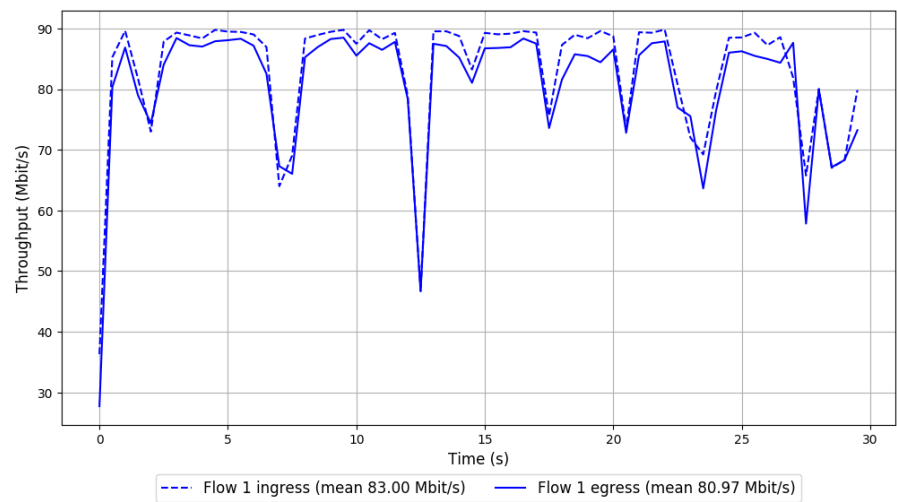
Run 7: Report of TaoVA-100x — Data Link

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

Start at: 2018-03-27 03:51:19
End at: 2018-03-27 03:51:49
Local clock offset: 0.601 ms
Remote clock offset: -3.725 ms


# Below is generated by plot.py at 2018-03-27 09:36:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.97 Mbit/s
95th percentile per-packet one-way delay: 49.600 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 80.97 Mbit/s
95th percentile per-packet one-way delay: 49.600 ms
Loss rate: 2.69%
```

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

Flow 1 ingress (mean 83.00 Mbit/s) ----- Flow 1 egress (mean 80.97 Mbit/s)

Flow 1 (95th percentile 49.60 ms)

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

Start at: 2018-03-27 04:21:33
End at: 2018-03-27 04:22:03
Local clock offset: -0.321 ms
Remote clock offset: -1.518 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.01 Mbit/s
95th percentile per-packet one-way delay: 45.293 ms
Loss rate: 3.31%
-- Flow 1:
Average throughput: 83.01 Mbit/s
95th percentile per-packet one-way delay: 45.293 ms
Loss rate: 3.31%
```
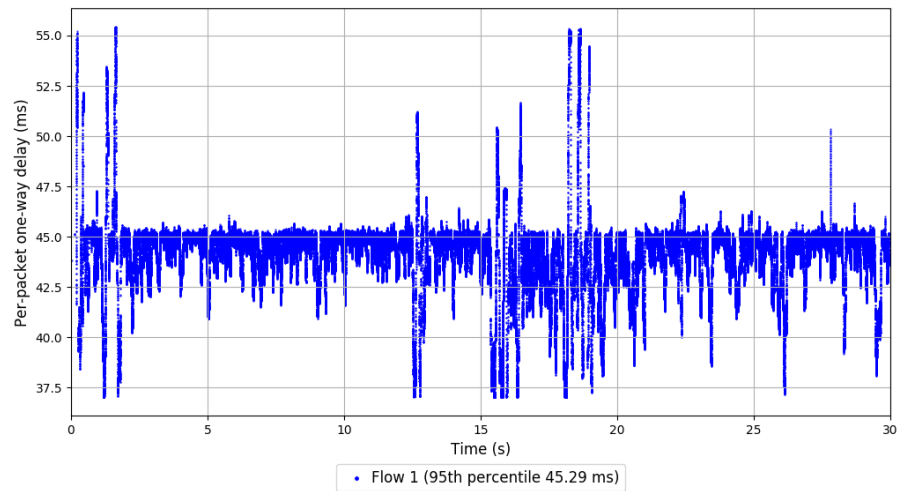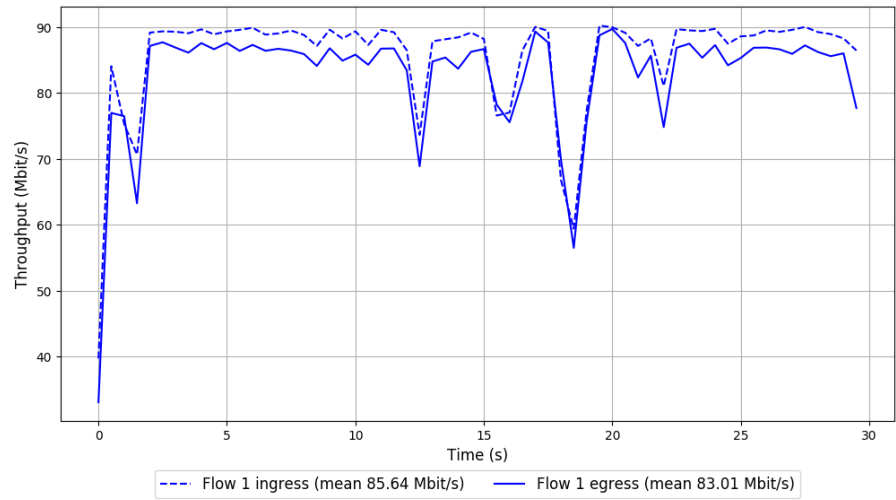
Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 85.64 Mbit/s)   Flow 1 egress (mean 83.01 Mbit/s)

Flow 1 (95th percentile 45.29 ms)

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

Start at: 2018-03-27 04:51:41
End at: 2018-03-27 04:52:11
Local clock offset: 0.013 ms
Remote clock offset: -2.668 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.35 Mbit/s
95th percentile per-packet one-way delay: 50.019 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 79.35 Mbit/s
95th percentile per-packet one-way delay: 50.019 ms
Loss rate: 1.30%
```
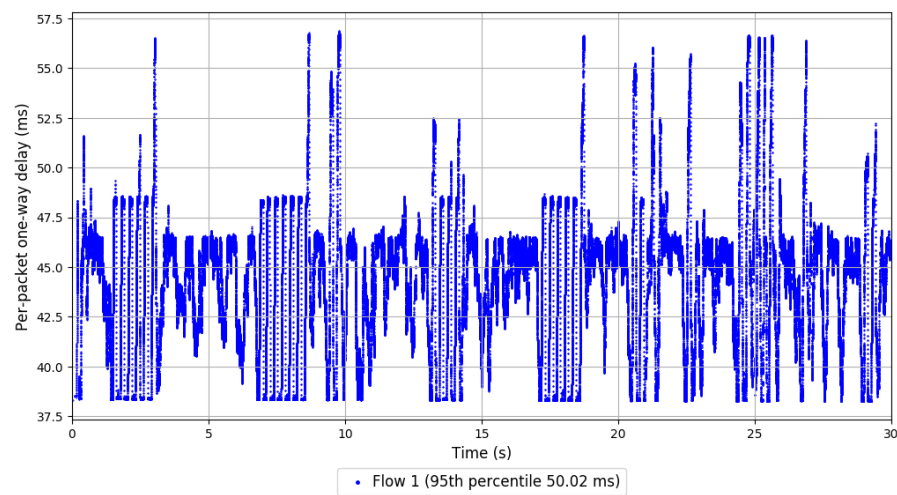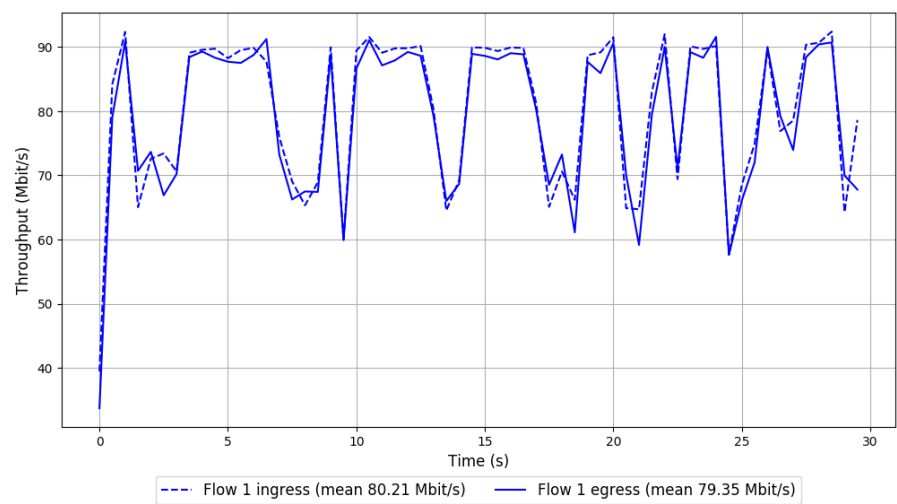
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 80.21 Mbit/s) ---- Flow 1 egress (mean 79.35 Mbit/s) ——

Flow 1 (95th percentile 50.02 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2018-03-27 00:56:44
End at: 2018-03-27 00:57:14
Local clock offset: 5.959 ms
Remote clock offset: -1.443 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 46.207 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 10.84 Mbit/s
95th percentile per-packet one-way delay: 46.207 ms
Loss rate: 0.70%
```
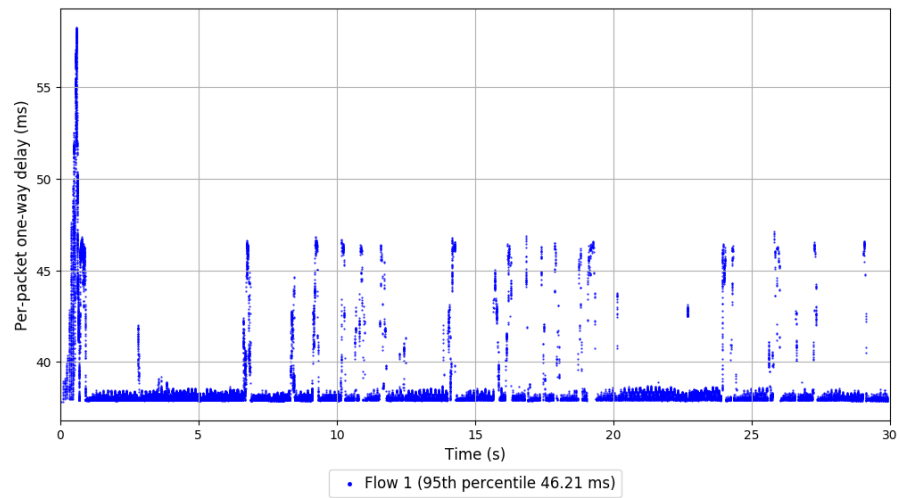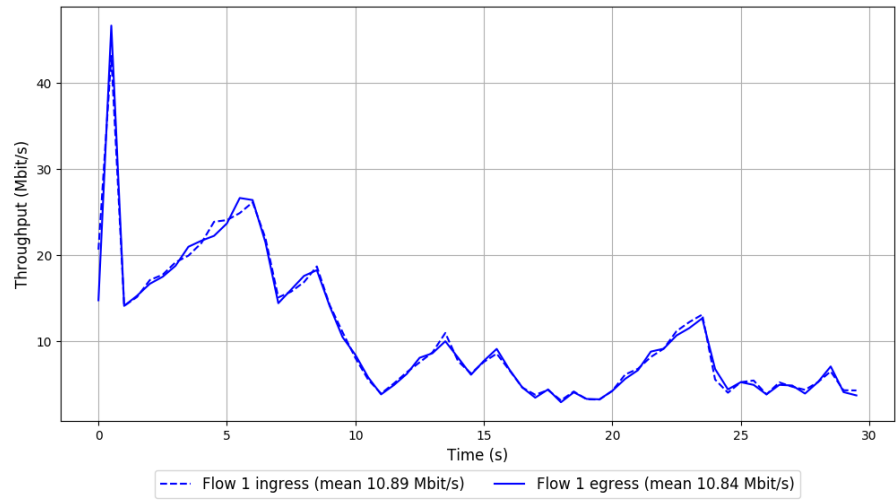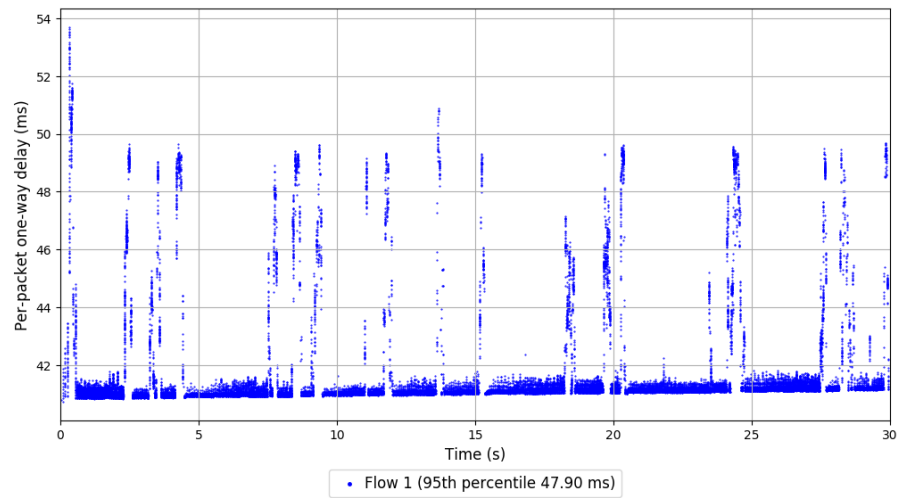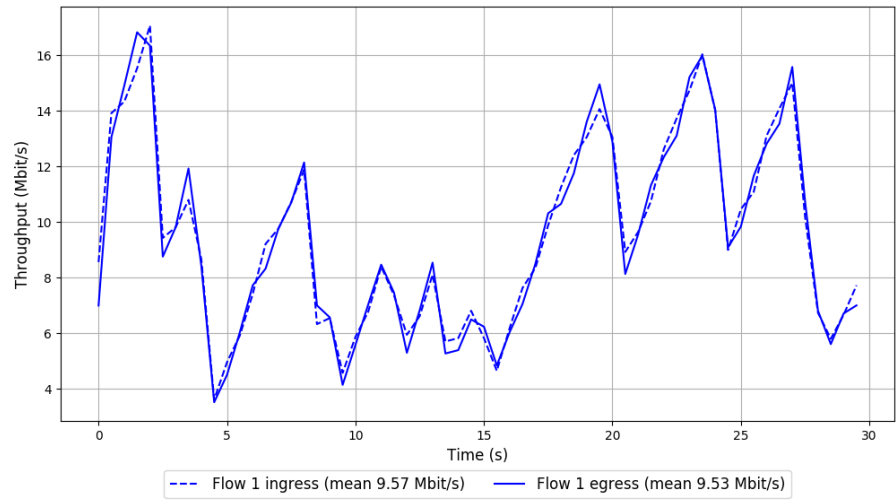
Run 1: Report of TCP Vegas — Data Link

Run 2: Statistics of TCP Vegas

Start at: 2018-03-27 01:22:52
End at: 2018-03-27 01:23:22
Local clock offset: 5.624 ms
Remote clock offset: -3.732 ms

Below is generated by plot.py at 2018-03-27 09:37:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 47.899 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 47.899 ms
Loss rate: 0.58%

Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-03-27 01:49:02
End at: 2018-03-27 01:49:32
Local clock offset: -0.617 ms
Remote clock offset: -1.81 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 45.512 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 7.51 Mbit/s
95th percentile per-packet one-way delay: 45.512 ms
Loss rate: 0.52%
```
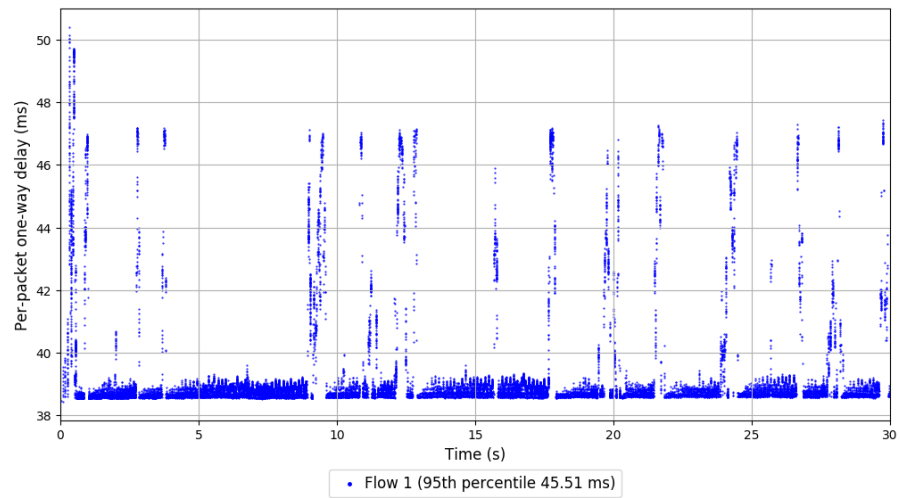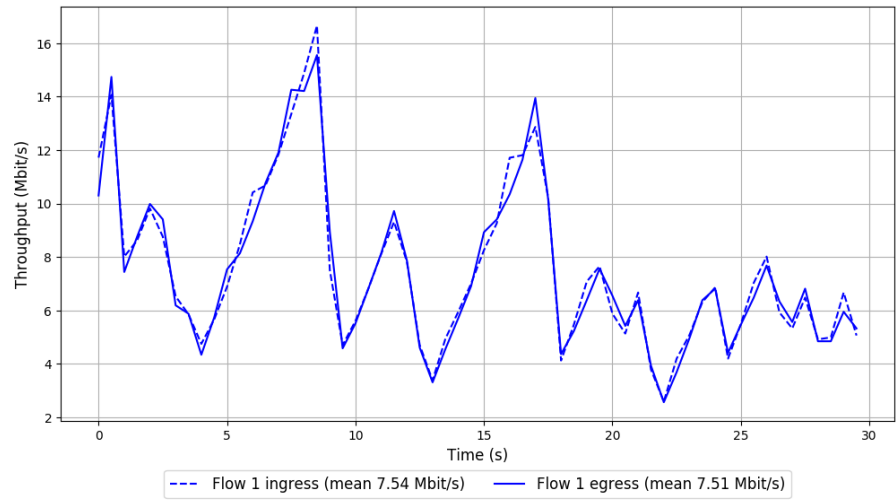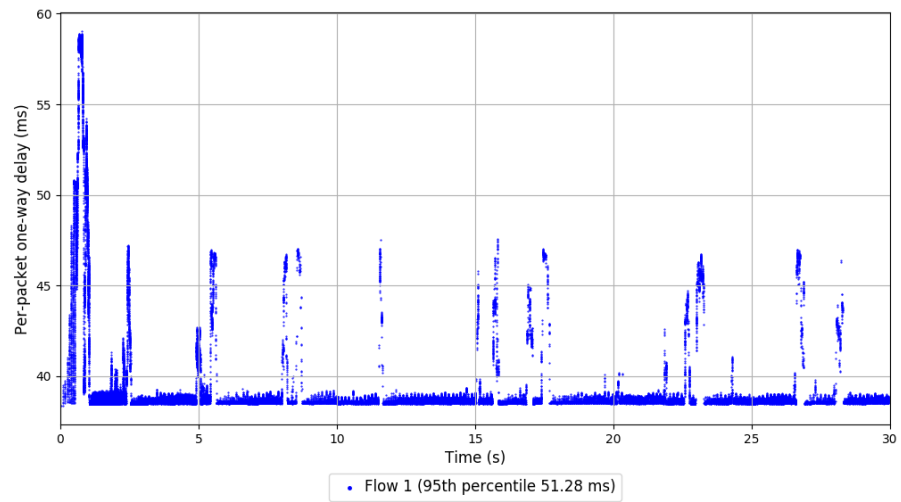
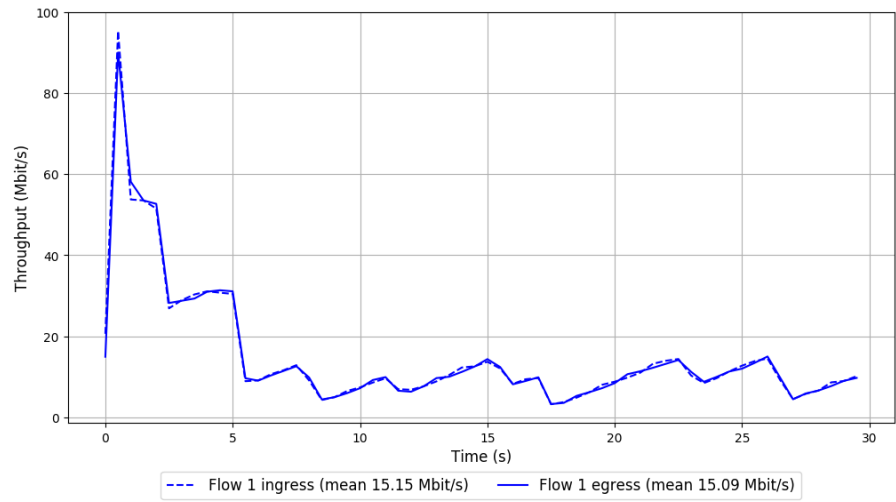Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2018-03-27 02:15:29
End at: 2018-03-27 02:15:59
Local clock offset: 0.025 ms
Remote clock offset: -1.954 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 51.283 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 51.283 ms
Loss rate: 0.62%
```

Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 15.15 Mbit/s) --- Flow 1 egress (mean 15.09 Mbit/s)
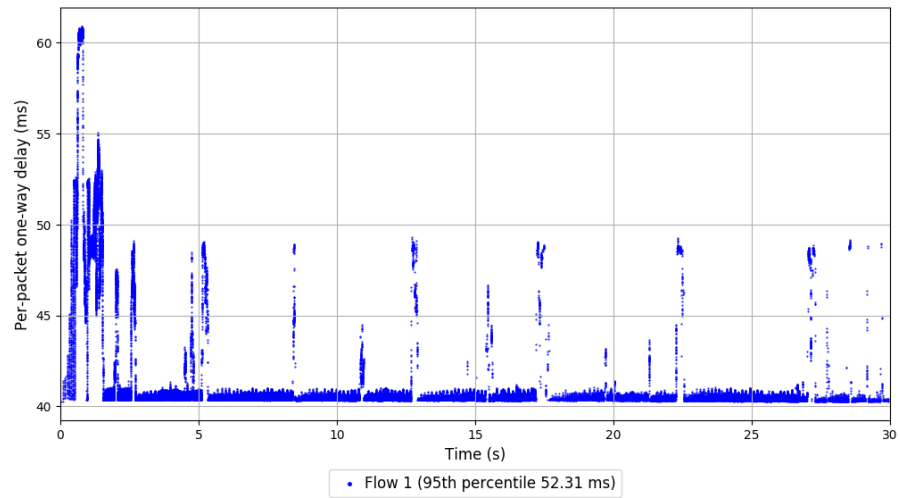

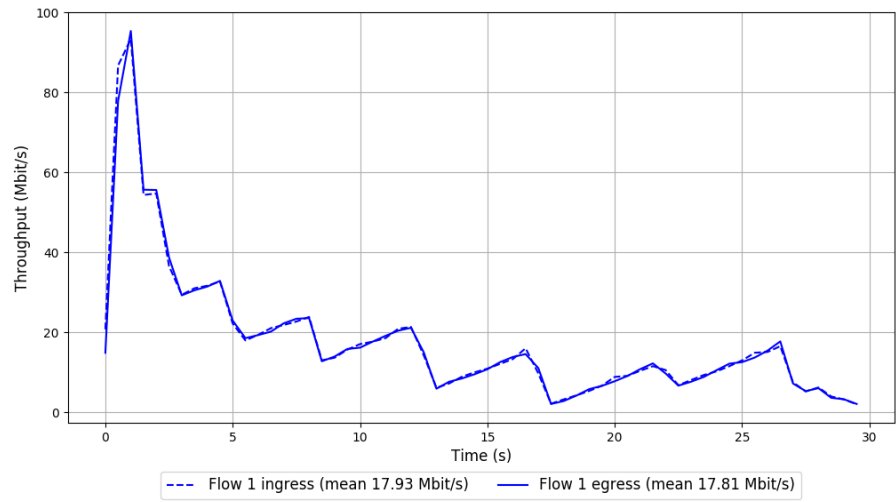• Flow 1 (95th percentile 51.28 ms)

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```
Run 5: Statistics of TCP Vegas

Start at: 2018-03-27 02:41:34
End at: 2018-03-27 02:42:04
Local clock offset: 5.028 ms
Remote clock offset: -4.224 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 52.308 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 17.81 Mbit/s
95th percentile per-packet one-way delay: 52.308 ms
Loss rate: 0.91%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 17.93 Mbit/s)   Flow 1 egress (mean 17.81 Mbit/s)
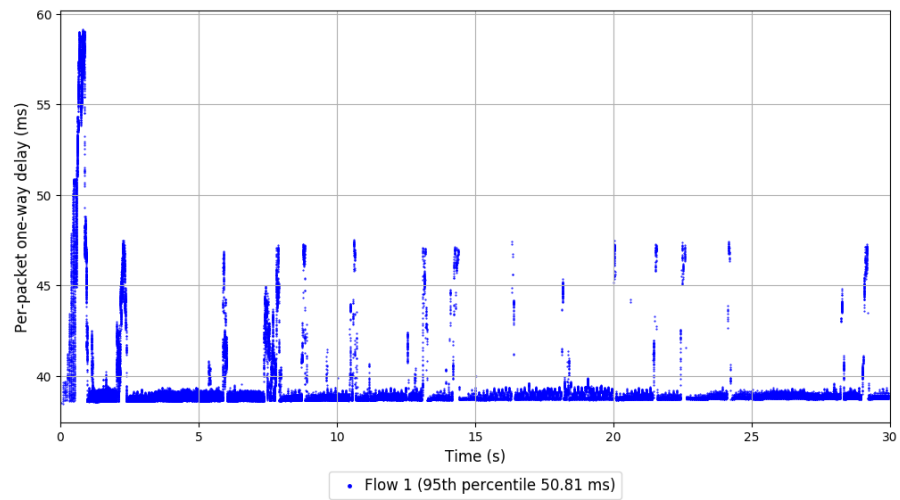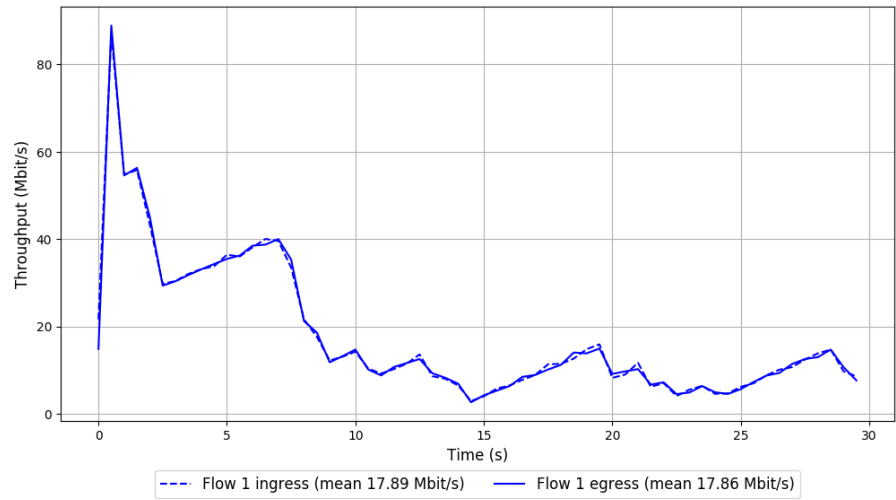

Flow 1 (95th percentile 52.31 ms)

```
Run 6: Statistics of TCP Vegas

Start at: 2018-03-27 03:08:12
End at: 2018-03-27 03:08:42
Local clock offset: 5.521 ms
Remote clock offset: -2.322 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.86 Mbit/s
95th percentile per-packet one-way delay: 50.813 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 17.86 Mbit/s
95th percentile per-packet one-way delay: 50.813 ms
Loss rate: 0.36%
```

Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 17.89 Mbit/s)   Flow 1 egress (mean 17.86 Mbit/s)
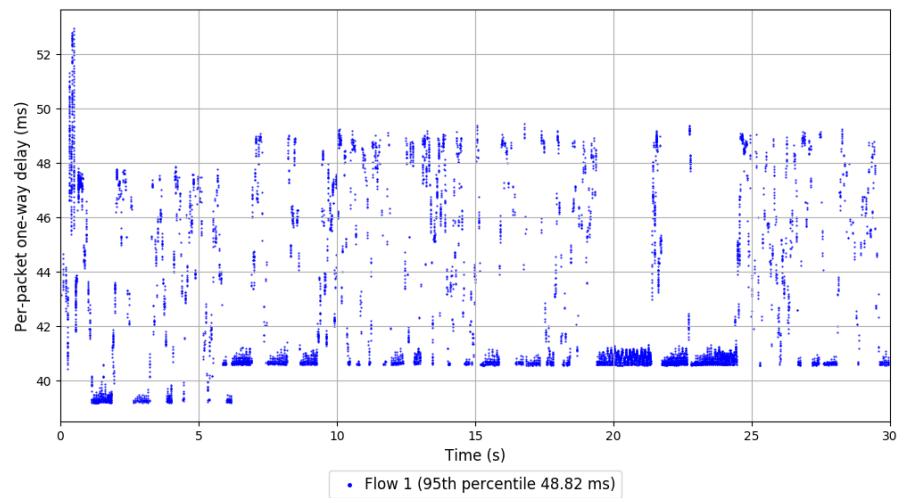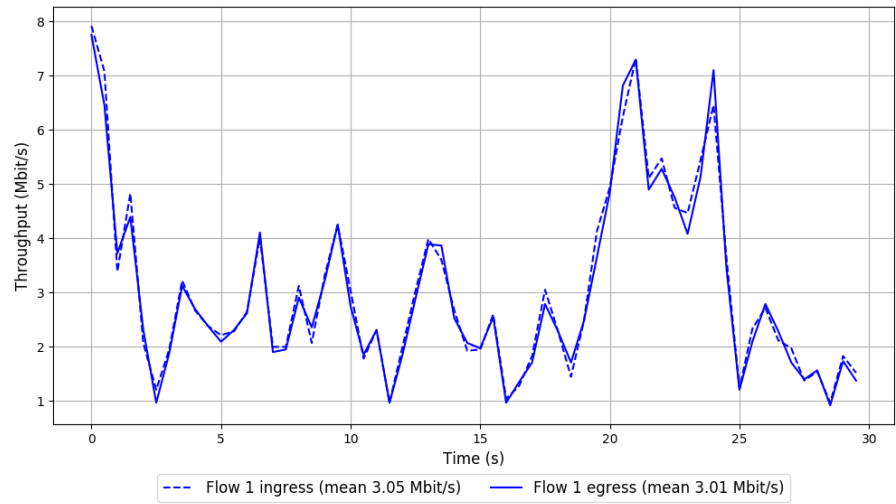

Flow 1 (95th percentile 50.81 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-03-27 03:35:08
End at: 2018-03-27 03:35:38
Local clock offset: 3.387 ms
Remote clock offset: -4.233 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 48.824 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 48.824 ms
Loss rate: 1.48%
```

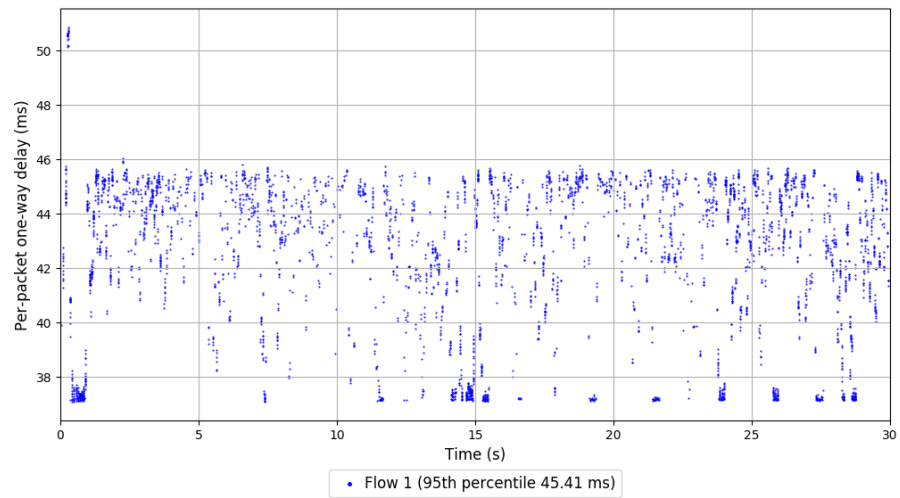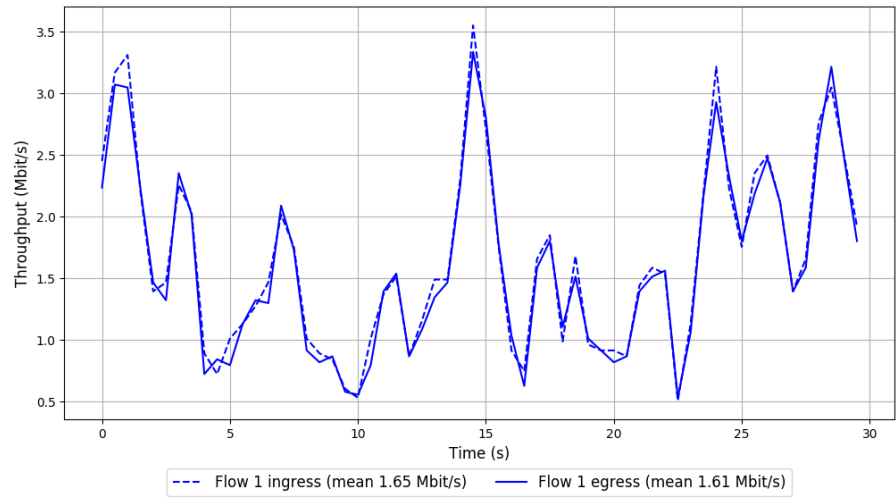# Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2018-03-27 04:03:42
End at: 2018-03-27 04:04:12
Local clock offset: -0.369 ms
Remote clock offset: -1.315 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 45.411 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 45.411 ms
Loss rate: 2.52%
```

Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 1.65 Mbit/s)   Flow 1 egress (mean 1.61 Mbit/s)
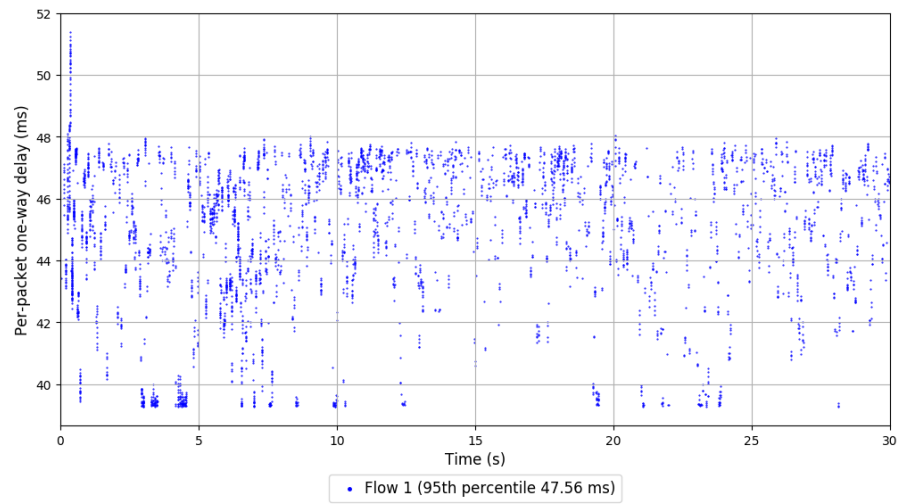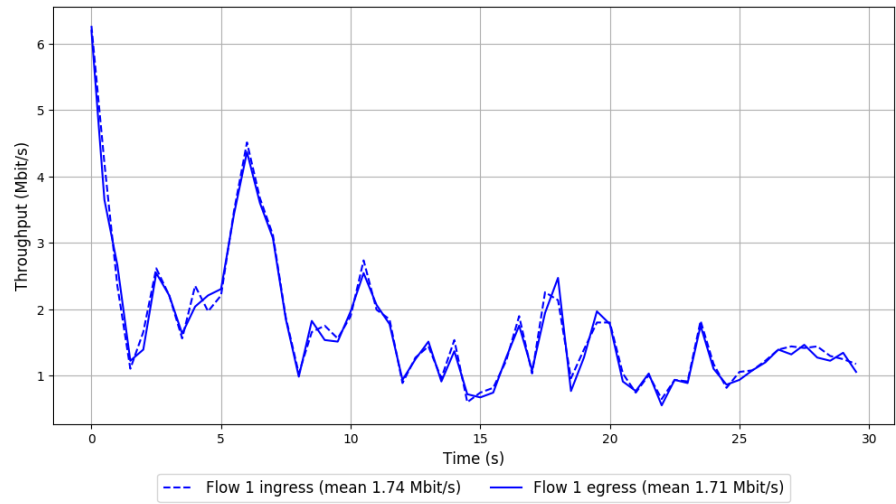

Flow 1 (95th percentile 45.41 ms)

```
Run 9: Statistics of TCP Vegas

Start at: 2018-03-27 04:35:08
End at: 2018-03-27 04:35:38
Local clock offset: -0.29 ms
Remote clock offset: -3.784 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 47.556 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 47.556 ms
Loss rate: 2.05%
```

Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 1.74 Mbit/s) --- Flow 1 egress (mean 1.71 Mbit/s)

Flow 1 (95th percentile 47.56 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2018-03-27 05:02:58
End at: 2018-03-27 05:03:28
Local clock offset: 0.191 ms
Remote clock offset: -6.096 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 47.322 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 47.322 ms
Loss rate: 1.83%
```
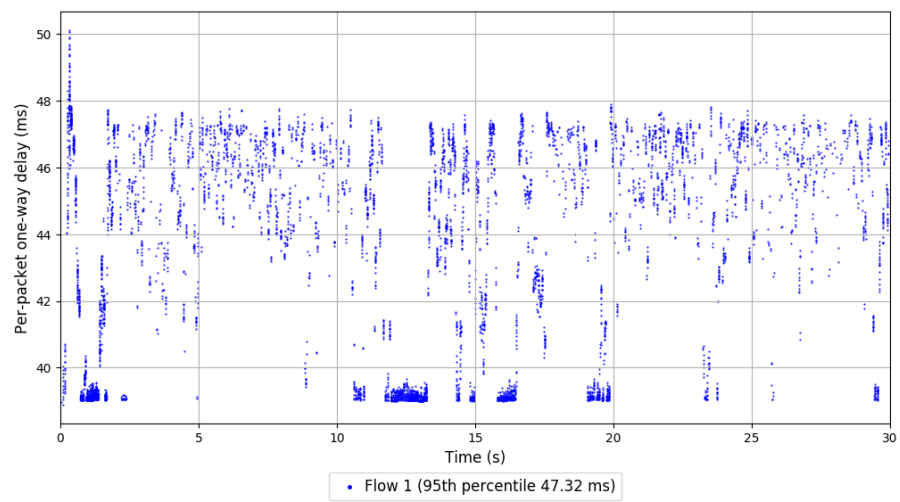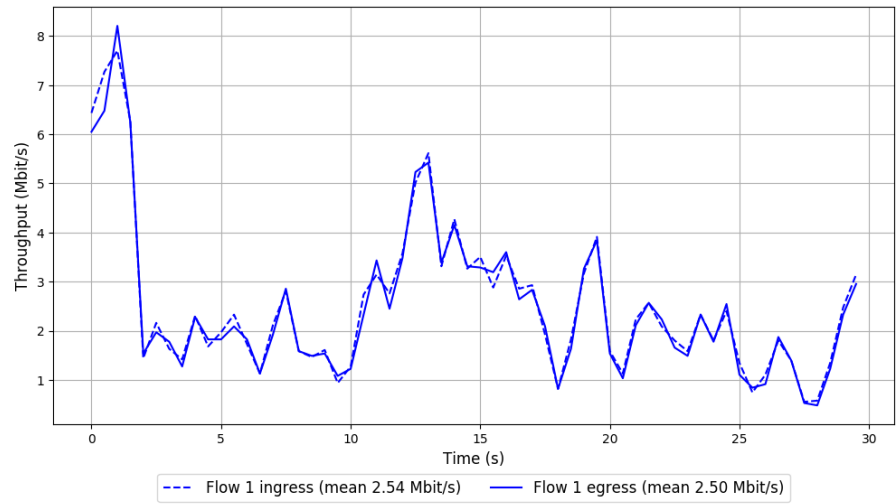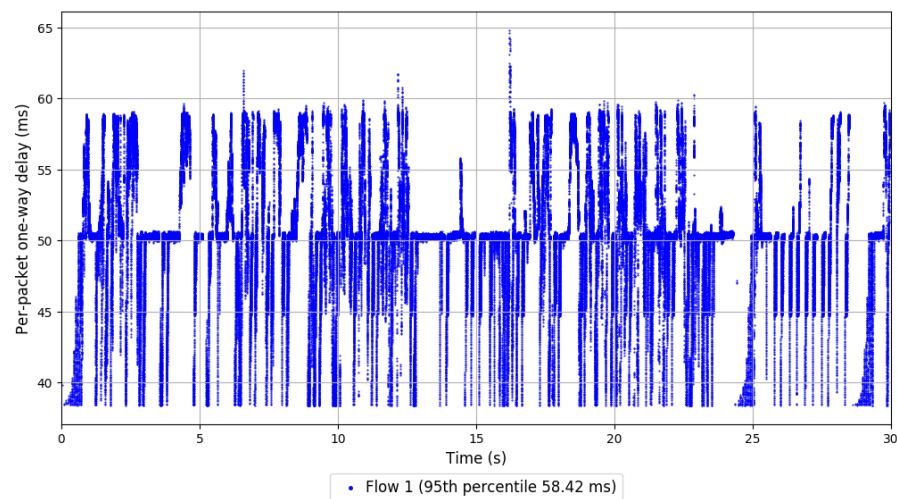
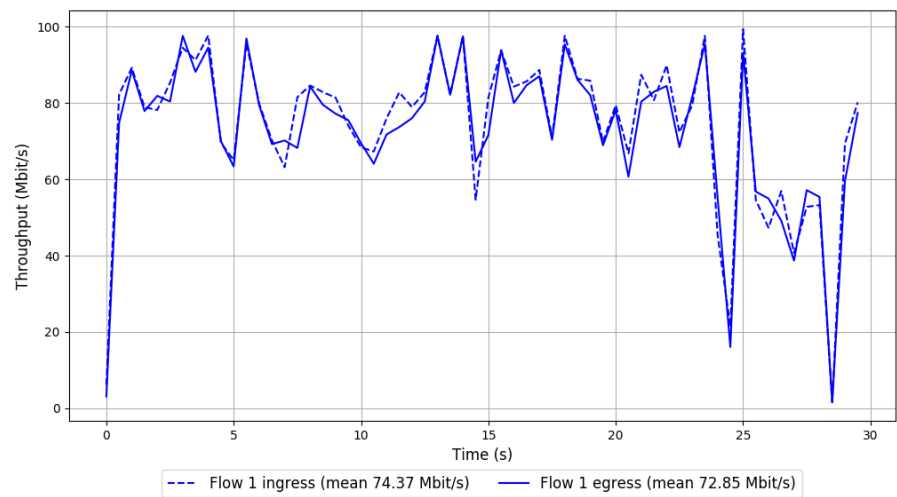Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2018-03-27 00:38:21
End at: 2018-03-27 00:38:51
Local clock offset: 4.353 ms
Remote clock offset: -2.216 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.85 Mbit/s
95th percentile per-packet one-way delay: 58.425 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 72.85 Mbit/s
95th percentile per-packet one-way delay: 58.425 ms
Loss rate: 2.14%
```

Run 1: Report of Verus — Data Link

Flow 1 ingress (mean 74.37 Mbit/s)   Flow 1 egress (mean 72.85 Mbit/s)

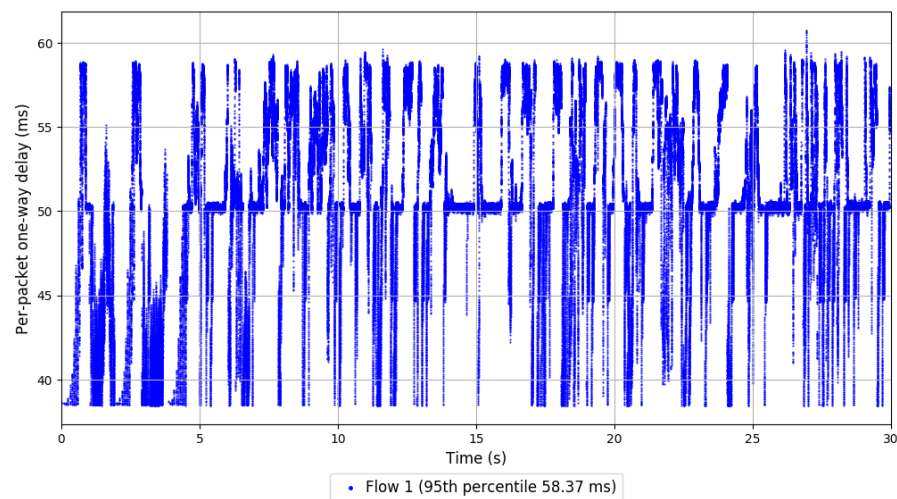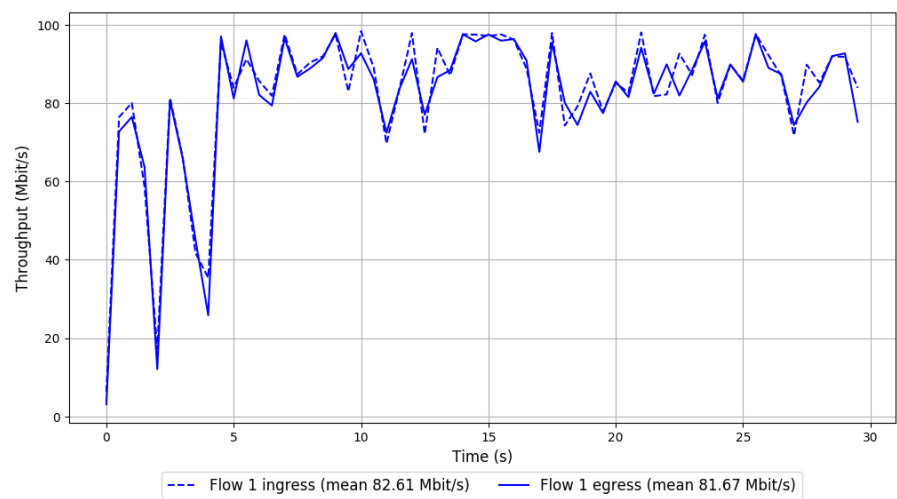

• Flow 1 (95th percentile 58.42 ms)

```
Run 2: Statistics of Verus

Start at: 2018-03-27 01:03:44
End at: 2018-03-27 01:04:14
Local clock offset: 6.586 ms
Remote clock offset: -1.819 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 58.368 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 58.368 ms
Loss rate: 1.38%
```

Run 2: Report of Verus — Data Link

Flow 1 ingress (mean 82.61 Mbit/s)   Flow 1 egress (mean 81.67 Mbit/s)
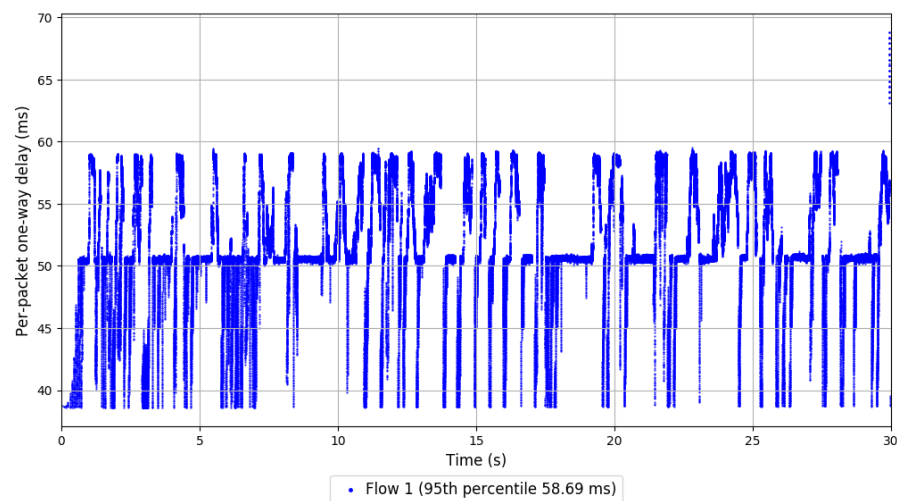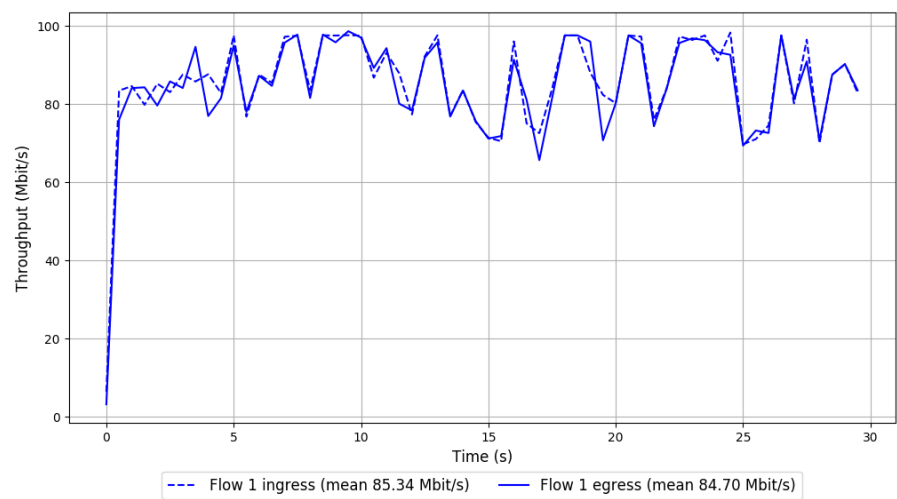

• Flow 1 (95th percentile 58.37 ms)

```
Run 3: Statistics of Verus

Start at: 2018-03-27 01:30:04
End at: 2018-03-27 01:30:34
Local clock offset: 2.403 ms
Remote clock offset: -1.707 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.70 Mbit/s
95th percentile per-packet one-way delay: 58.687 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 84.70 Mbit/s
95th percentile per-packet one-way delay: 58.687 ms
Loss rate: 0.99%
```

Run 3: Report of Verus — Data Link

Flow 1 ingress (mean 85.34 Mbit/s) --- Flow 1 egress (mean 84.70 Mbit/s)

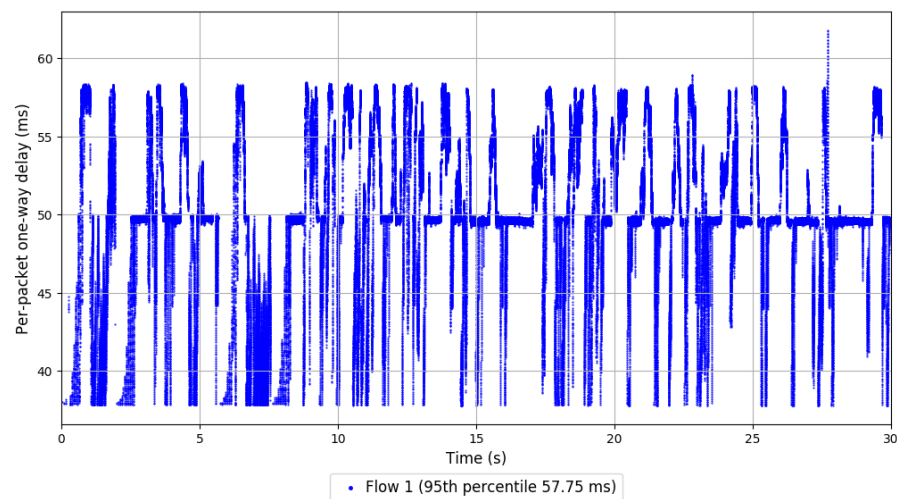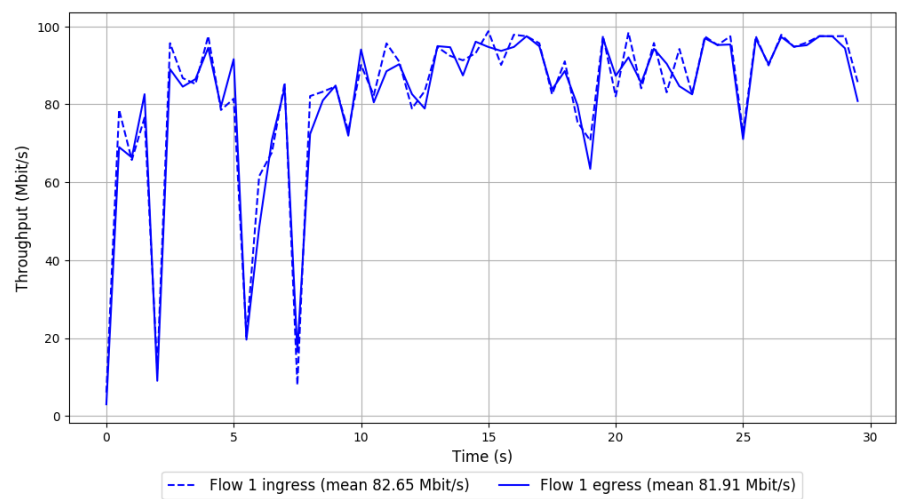Flow 1 (95th percentile 58.69 ms)

```
Run 4: Statistics of Verus

Start at: 2018-03-27 01:55:57
End at: 2018-03-27 01:56:27
Local clock offset: -0.836 ms
Remote clock offset: -1.374 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.91 Mbit/s
95th percentile per-packet one-way delay: 57.748 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 81.91 Mbit/s
95th percentile per-packet one-way delay: 57.748 ms
Loss rate: 1.13%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 82.65 Mbit/s)   Flow 1 egress (mean 81.91 Mbit/s)

• Flow 1 (95th percentile 57.75 ms)

```
Run 5: Statistics of Verus

Start at: 2018-03-27 02:22:45
End at: 2018-03-27 02:23:15
Local clock offset: 0.0 ms
Remote clock offset: -4.08 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.08 Mbit/s
95th percentile per-packet one-way delay: 60.707 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 74.08 Mbit/s
95th percentile per-packet one-way delay: 60.707 ms
Loss rate: 1.32%
```
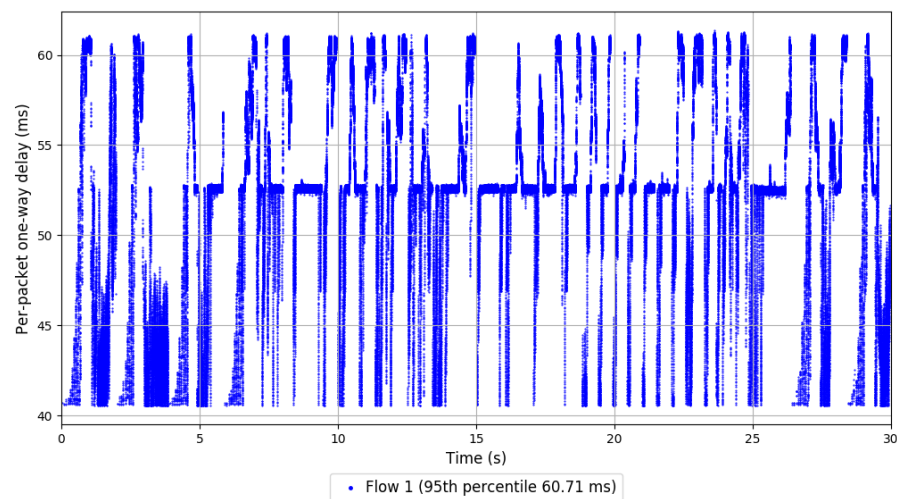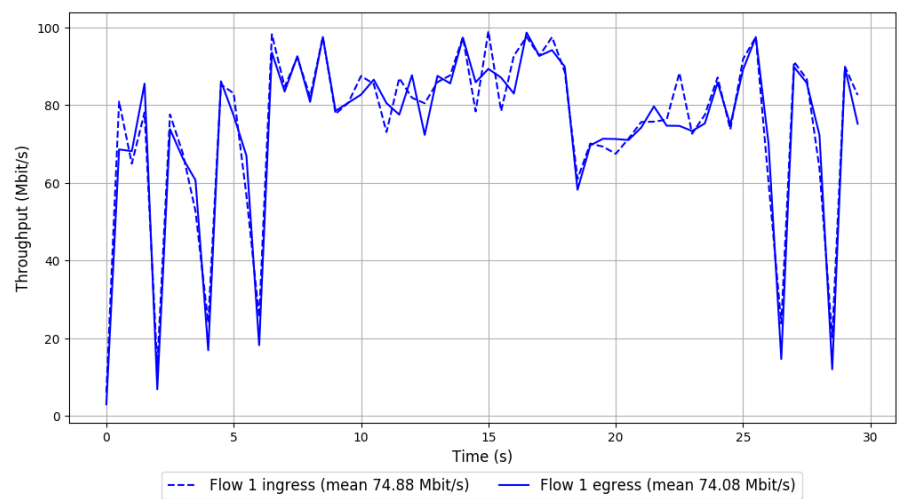
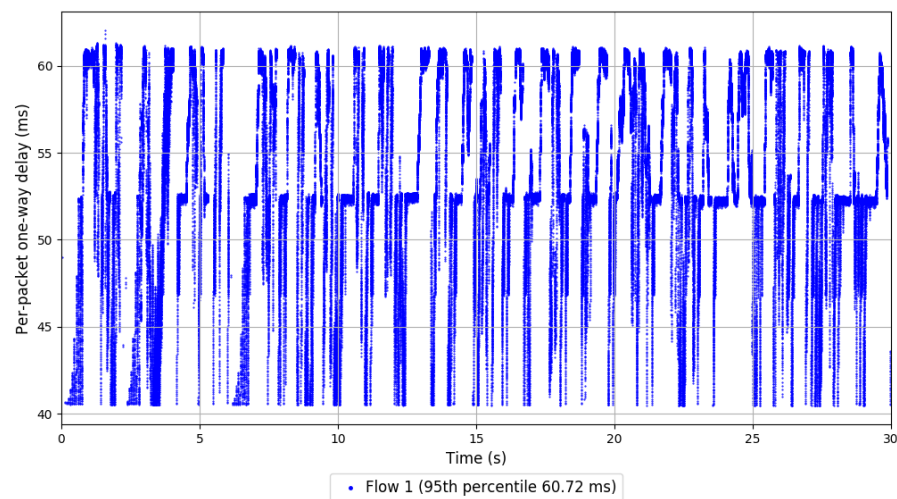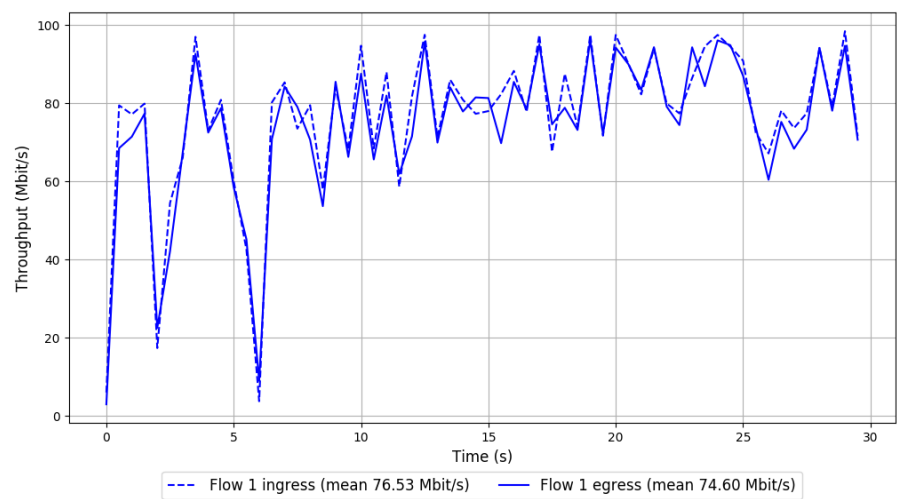Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2018-03-27 02:48:57
End at: 2018-03-27 02:49:27
Local clock offset: 6.328 ms
Remote clock offset: -4.343 ms


# Below is generated by plot.py at 2018-03-27 09:37:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.60 Mbit/s
95th percentile per-packet one-way delay: 60.716 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 74.60 Mbit/s
95th percentile per-packet one-way delay: 60.716 ms
Loss rate: 2.78%
```

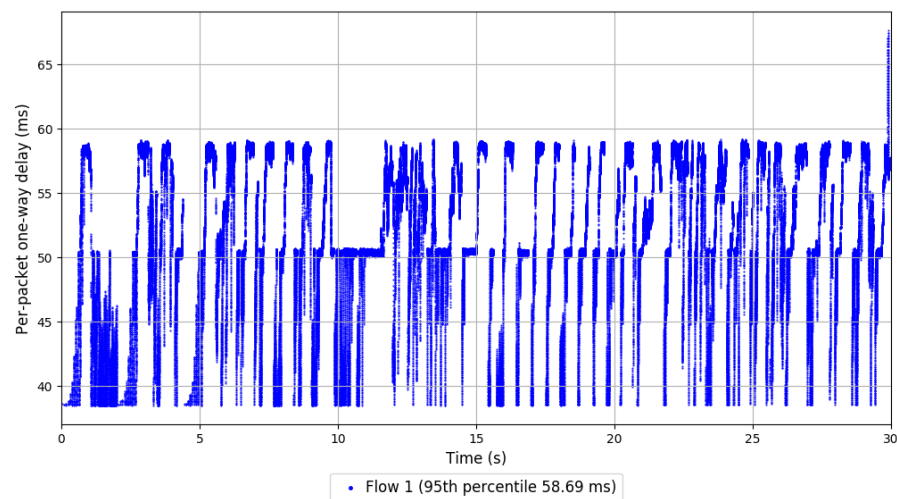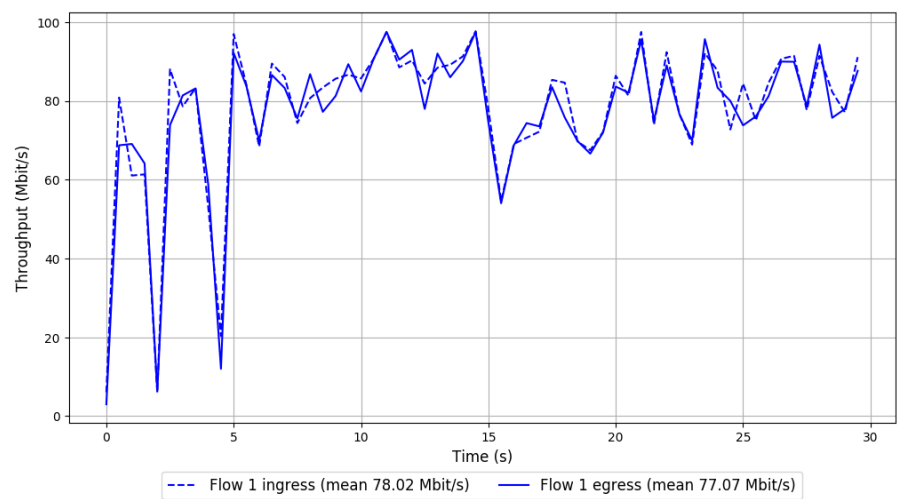## Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2018-03-27 03:15:07
End at: 2018-03-27 03:15:37
Local clock offset: 4.221 ms
Remote clock offset: -2.093 ms


# Below is generated by plot.py at 2018-03-27 09:38:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.07 Mbit/s
95th percentile per-packet one-way delay: 58.694 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 77.07 Mbit/s
95th percentile per-packet one-way delay: 58.694 ms
Loss rate: 1.37%
```

Run 7: Report of Verus — Data Link

Flow 1 ingress (mean 78.02 Mbit/s)   Flow 1 egress (mean 77.07 Mbit/s)
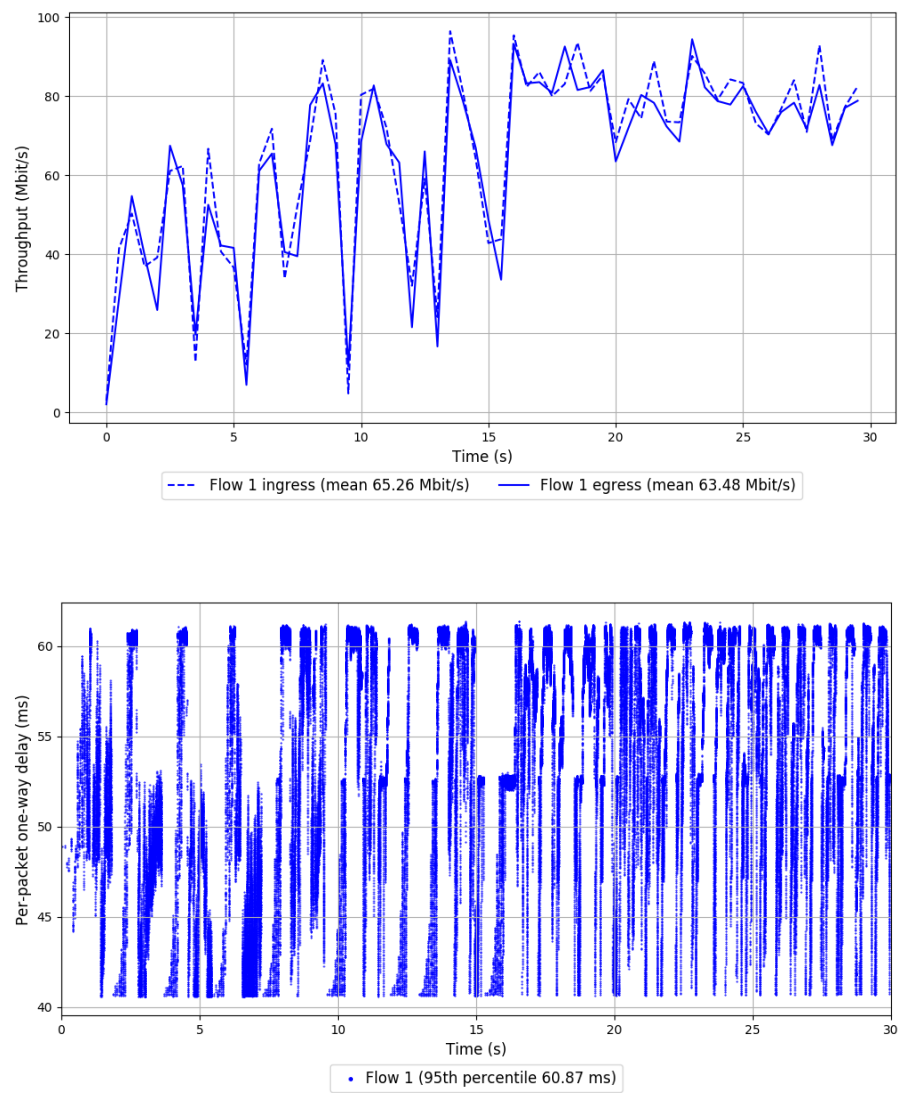

• Flow 1 (95th percentile 58.69 ms)

```
Run 8: Statistics of Verus

Start at: 2018-03-27 03:42:51
End at: 2018-03-27 03:43:21
Local clock offset: 1.692 ms
Remote clock offset: -3.979 ms


# Below is generated by plot.py at 2018-03-27 09:38:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 60.873 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 60.873 ms
Loss rate: 2.90%
```

Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 65.26 Mbit/s)   Flow 1 egress (mean 63.48 Mbit/s)

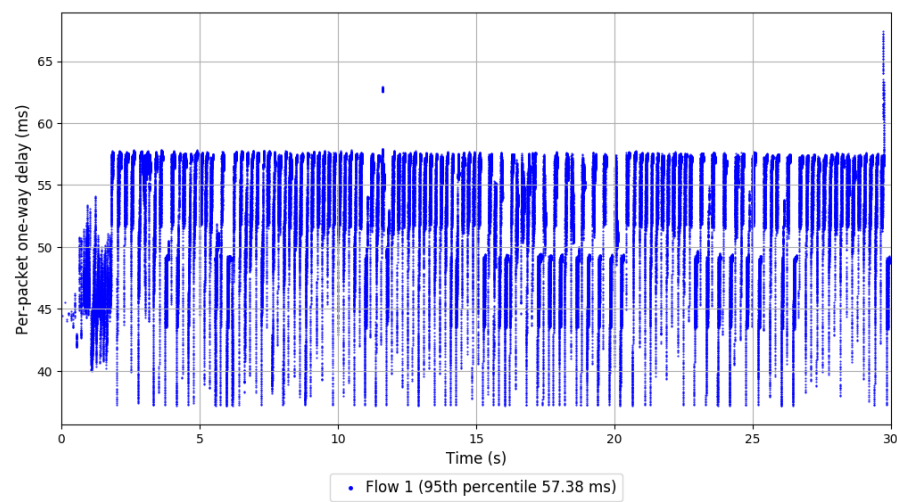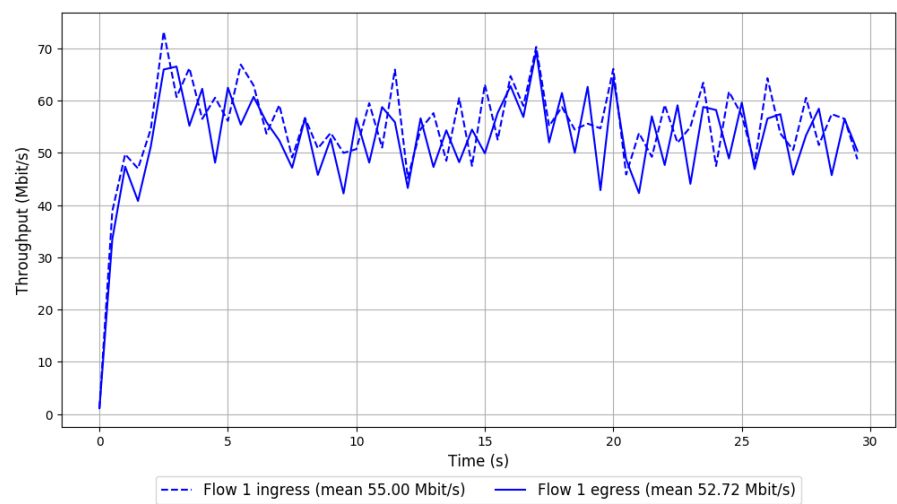· Flow 1 (95th percentile 60.87 ms)

```
Run 9: Statistics of Verus

Start at: 2018-03-27 04:13:15
End at: 2018-03-27 04:13:45
Local clock offset: -0.497 ms
Remote clock offset: -1.477 ms


# Below is generated by plot.py at 2018-03-27 09:38:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 57.381 ms
Loss rate: 4.44%
-- Flow 1:
Average throughput: 52.72 Mbit/s
95th percentile per-packet one-way delay: 57.381 ms
Loss rate: 4.44%
```

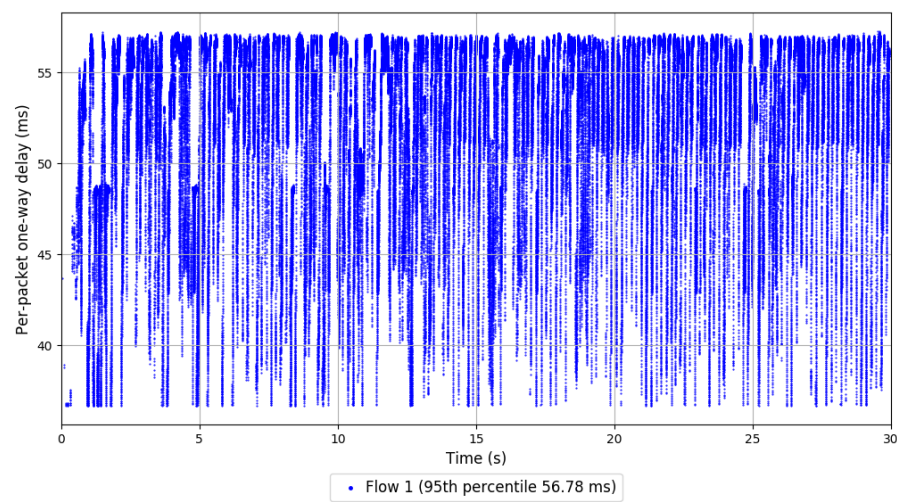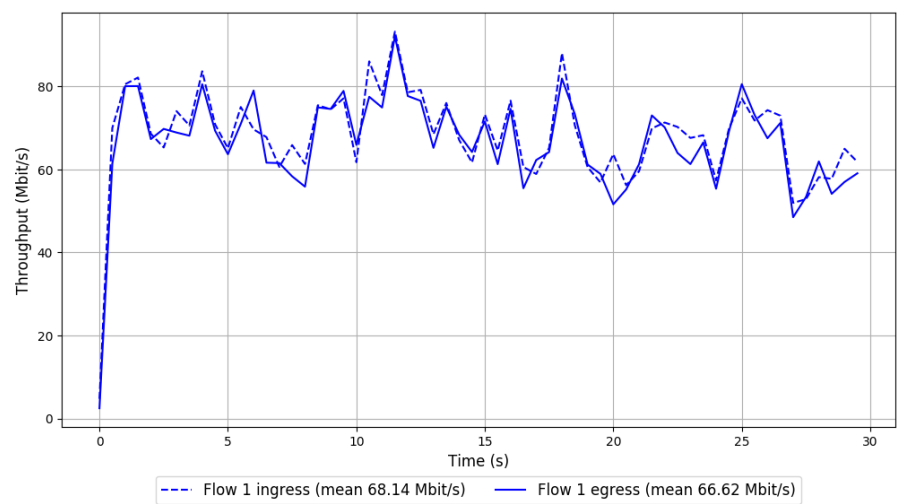Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2018-03-27 04:43:44
End at: 2018-03-27 04:44:14
Local clock offset: -0.388 ms
Remote clock offset: -1.222 ms


# Below is generated by plot.py at 2018-03-27 09:38:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.62 Mbit/s
95th percentile per-packet one-way delay: 56.776 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 66.62 Mbit/s
95th percentile per-packet one-way delay: 56.776 ms
Loss rate: 2.50%
```

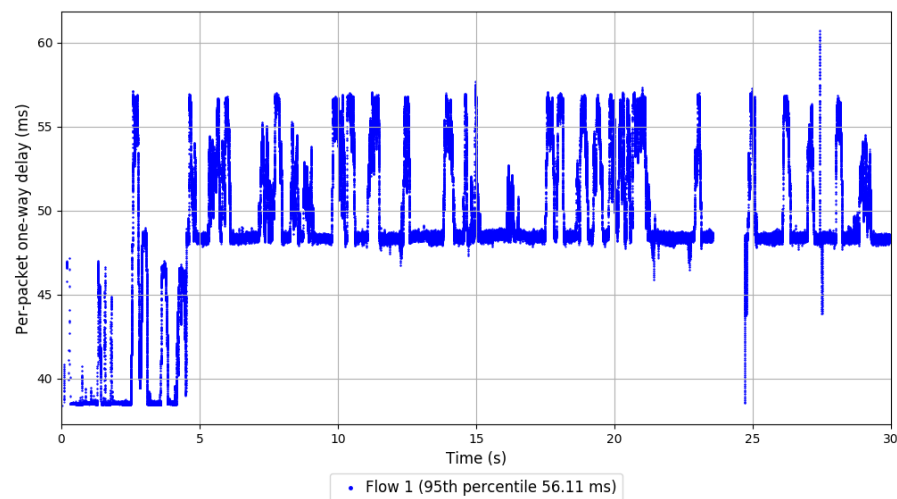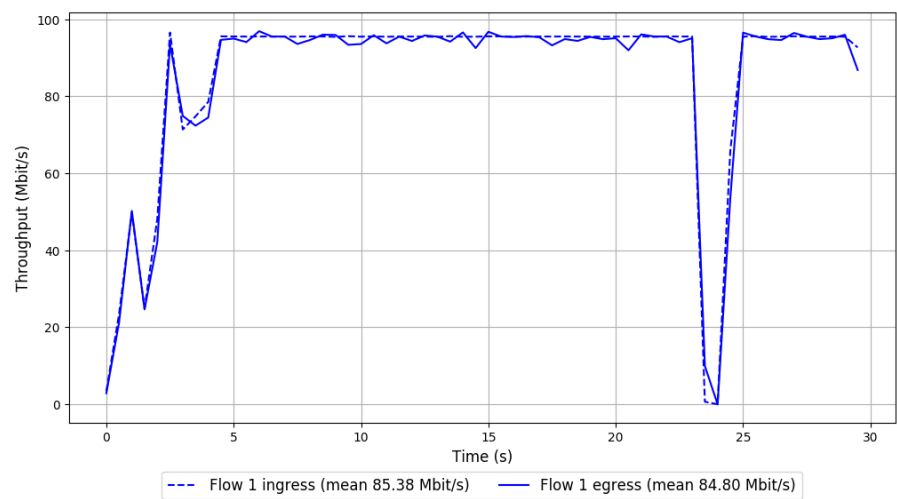Run 10: Report of Verus — Data Link

```
Run 1: Statistics of Copa

Start at: 2018-03-27 00:39:48
End at: 2018-03-27 00:40:18
Local clock offset: 4.327 ms
Remote clock offset: -2.259 ms


# Below is generated by plot.py at 2018-03-27 09:39:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.80 Mbit/s
95th percentile per-packet one-way delay: 56.110 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 84.80 Mbit/s
95th percentile per-packet one-way delay: 56.110 ms
Loss rate: 0.90%
```

Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 85.38 Mbit/s) --- Flow 1 egress (mean 84.80 Mbit/s)

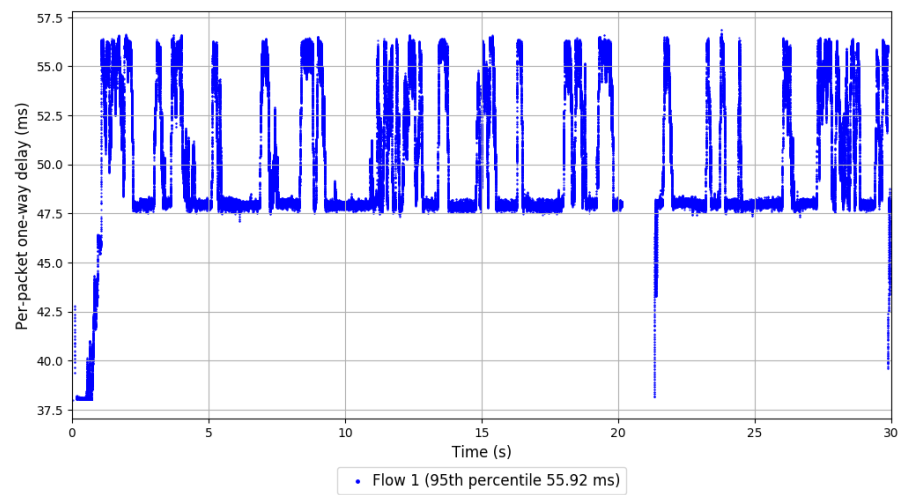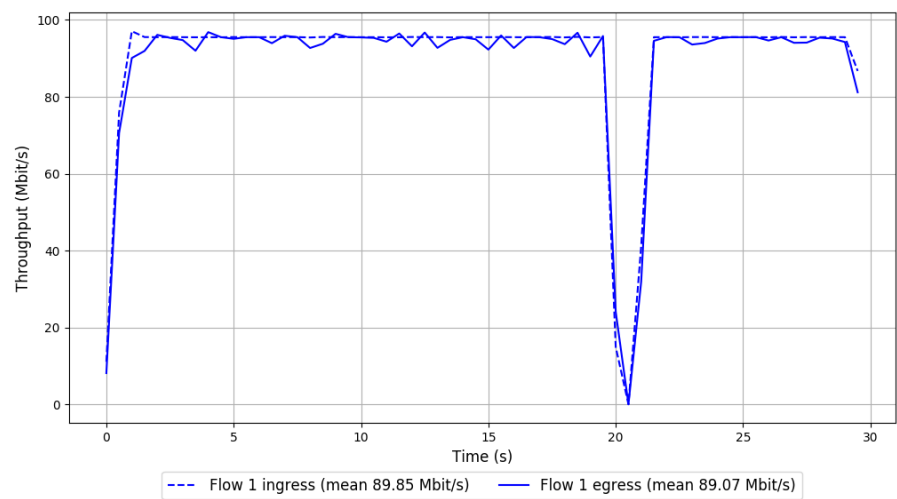

Flow 1 (95th percentile 56.11 ms)

```
Run 2: Statistics of Copa

Start at: 2018-03-27 01:05:17
End at: 2018-03-27 01:05:47
Local clock offset: 6.673 ms
Remote clock offset: -1.354 ms


# Below is generated by plot.py at 2018-03-27 09:39:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.07 Mbit/s
95th percentile per-packet one-way delay: 55.922 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 89.07 Mbit/s
95th percentile per-packet one-way delay: 55.922 ms
Loss rate: 1.11%
```

Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 89.85 Mbit/s)   Flow 1 egress (mean 89.07 Mbit/s)

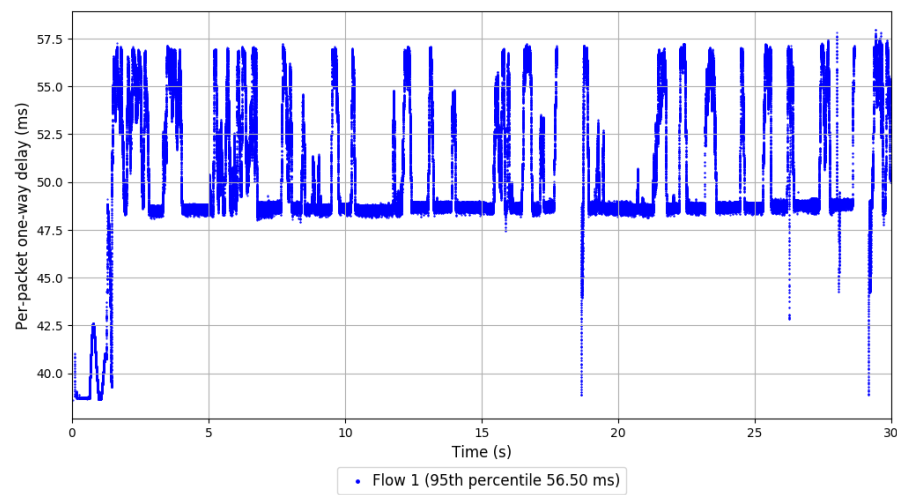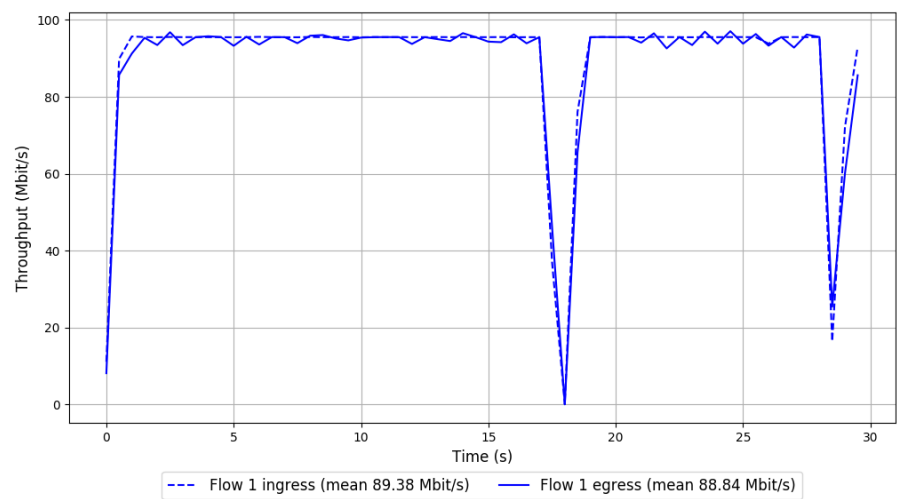Flow 1 (95th percentile 55.92 ms)

```
Run 3: Statistics of Copa

Start at: 2018-03-27 01:31:38
End at: 2018-03-27 01:32:08
Local clock offset: 1.965 ms
Remote clock offset: -1.726 ms


# Below is generated by plot.py at 2018-03-27 09:40:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.84 Mbit/s
95th percentile per-packet one-way delay: 56.501 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 88.84 Mbit/s
95th percentile per-packet one-way delay: 56.501 ms
Loss rate: 0.85%
```

Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 89.38 Mbit/s)   Flow 1 egress (mean 88.84 Mbit/s)

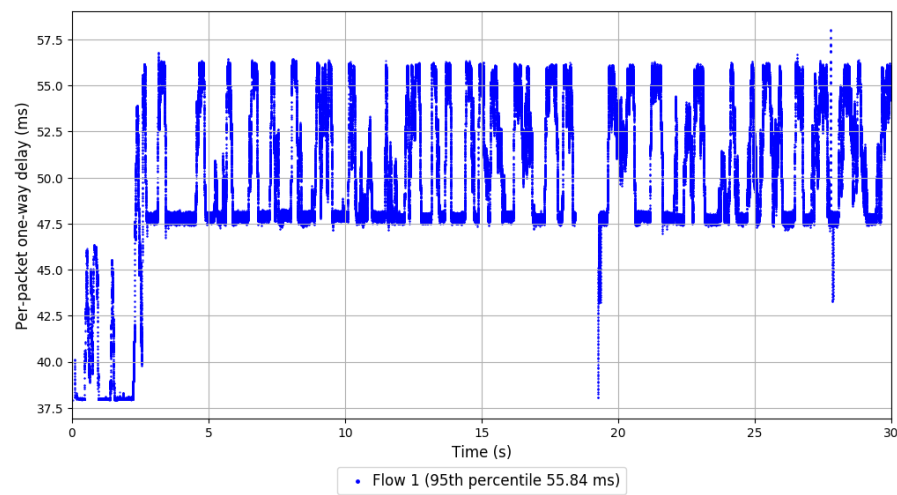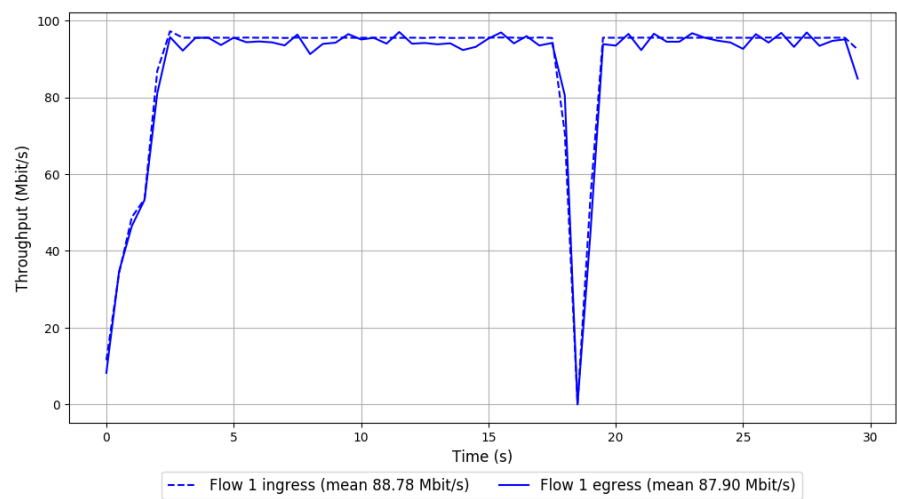Flow 1 (95th percentile 56.50 ms)

```
Run 4: Statistics of Copa

Start at: 2018-03-27 01:57:24
End at: 2018-03-27 01:57:54
Local clock offset: -0.554 ms
Remote clock offset: -1.409 ms


# Below is generated by plot.py at 2018-03-27 09:40:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 55.843 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 87.90 Mbit/s
95th percentile per-packet one-way delay: 55.843 ms
Loss rate: 1.22%
```

Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 88.78 Mbit/s)   Flow 1 egress (mean 87.90 Mbit/s)

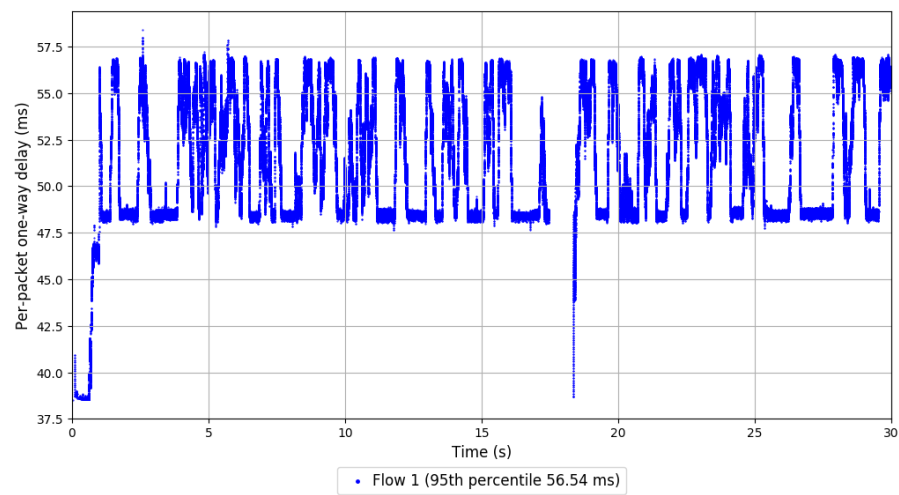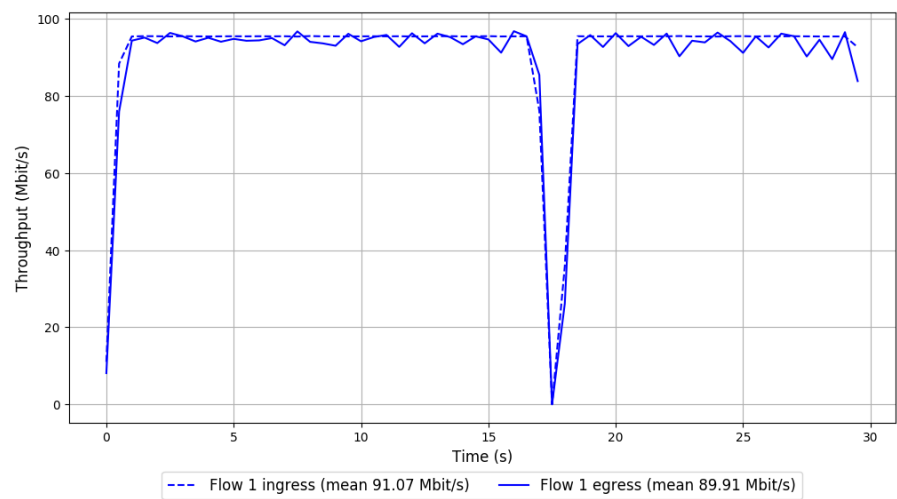Flow 1 (95th percentile 55.84 ms)

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```
Run 5: Statistics of Copa

Start at: 2018-03-27 02:24:10
End at: 2018-03-27 02:24:40
Local clock offset: 0.079 ms
Remote clock offset: -2.041 ms


# Below is generated by plot.py at 2018-03-27 09:40:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 56.540 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 56.540 ms
Loss rate: 1.52%
```

Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: 2018-03-27 02:50:42
End at: 2018-03-27 02:51:12
Local clock offset: 6.535 ms
Remote clock offset: -4.4 ms


# Below is generated by plot.py at 2018-03-27 09:40:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 58.767 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 89.45 Mbit/s
95th percentile per-packet one-way delay: 58.767 ms
Loss rate: 1.88%
```
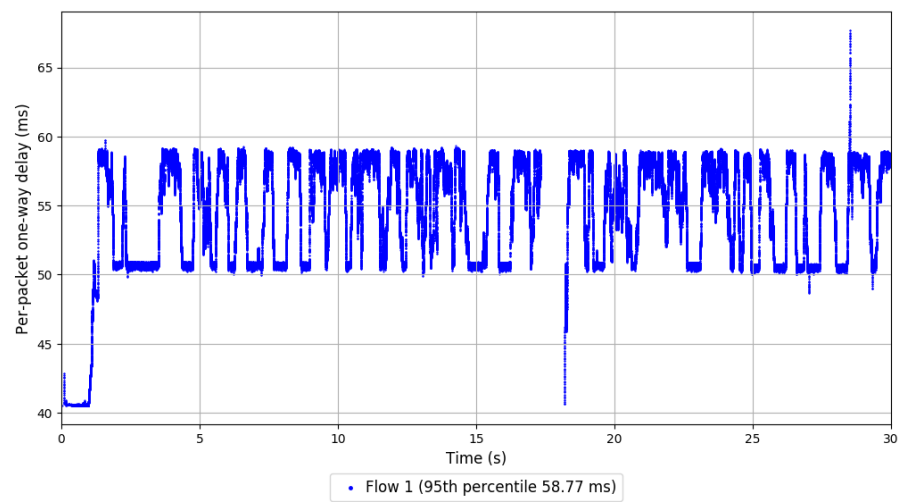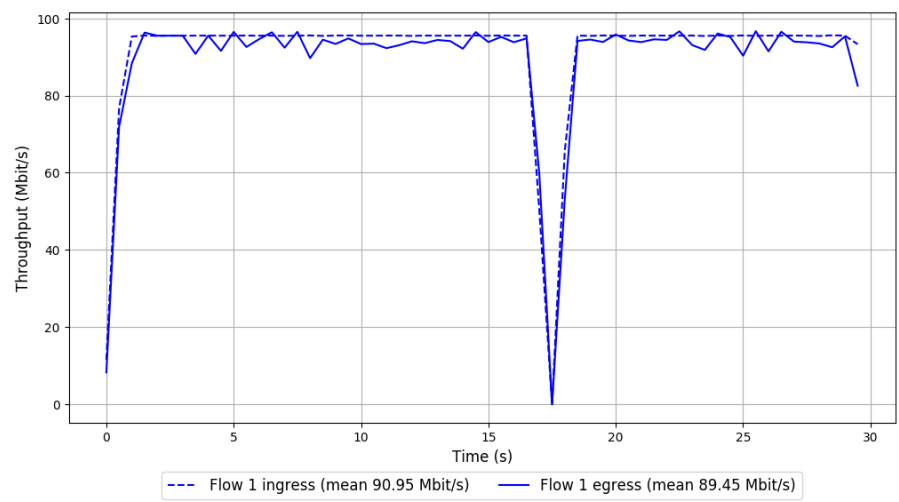
Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 90.95 Mbit/s) --- Flow 1 egress (mean 89.45 Mbit/s)

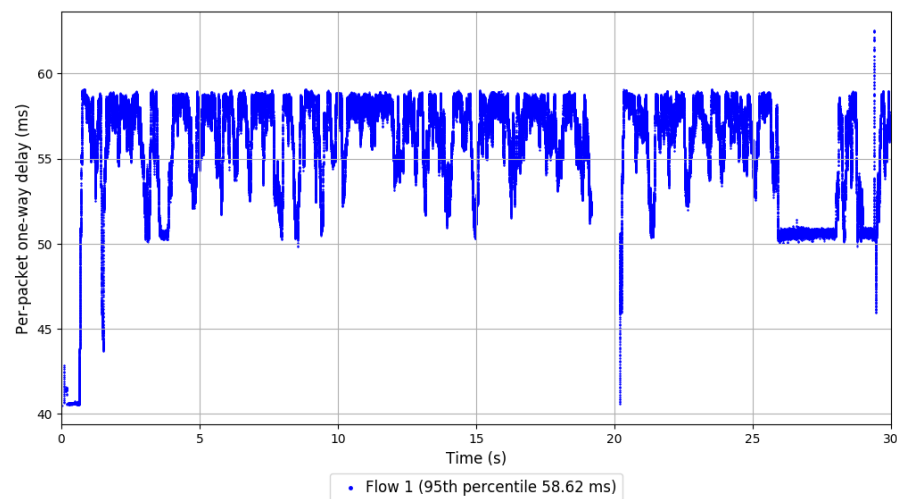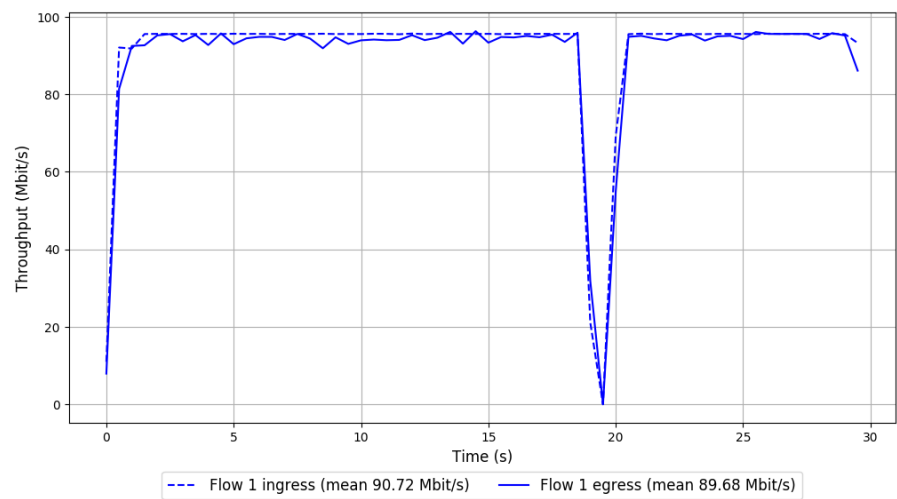Flow 1 (95th percentile 58.77 ms)

```
Run 7: Statistics of Copa

Start at: 2018-03-27 03:16:45
End at: 2018-03-27 03:17:15
Local clock offset: 4.033 ms
Remote clock offset: -4.196 ms


# Below is generated by plot.py at 2018-03-27 09:40:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.68 Mbit/s
95th percentile per-packet one-way delay: 58.625 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 89.68 Mbit/s
95th percentile per-packet one-way delay: 58.625 ms
Loss rate: 1.37%
```

Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 90.72 Mbit/s) --- Flow 1 egress (mean 89.68 Mbit/s)

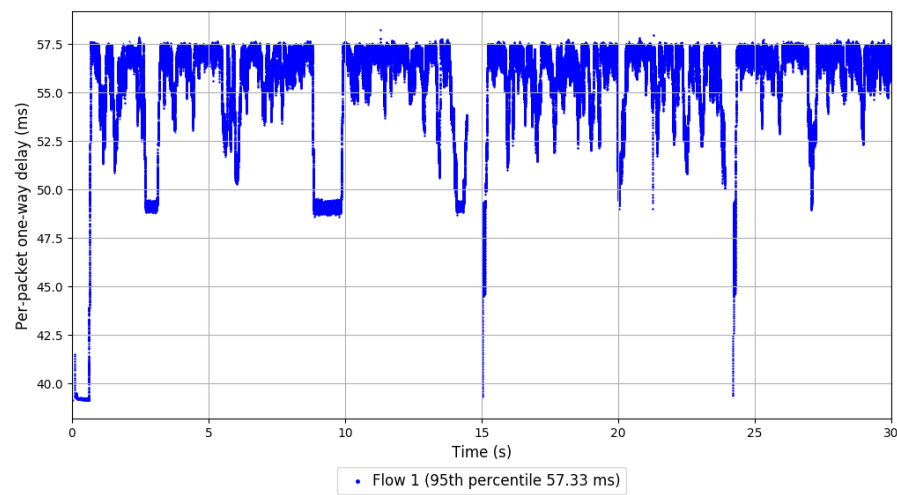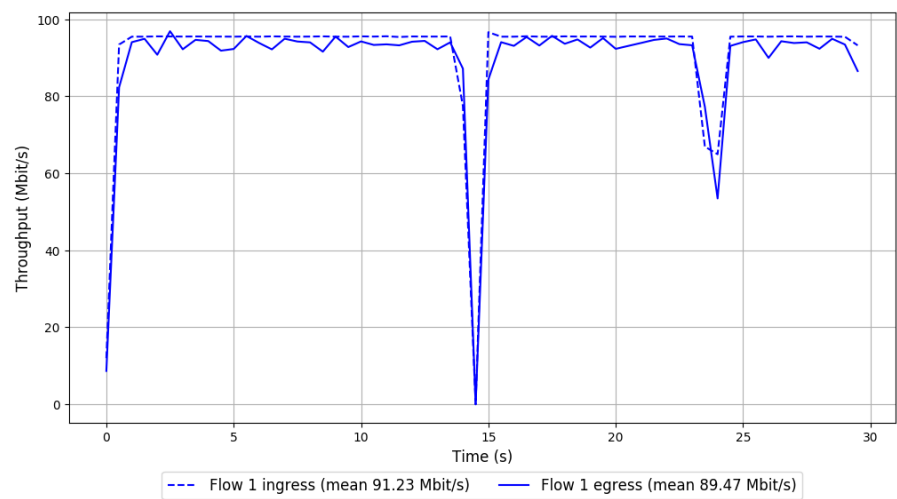Flow 1 (95th percentile 58.62 ms)

```
Run 8: Statistics of Copa

Start at: 2018-03-27 03:44:36
End at: 2018-03-27 03:45:06
Local clock offset: 1.367 ms
Remote clock offset: -3.868 ms


# Below is generated by plot.py at 2018-03-27 09:40:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.47 Mbit/s
95th percentile per-packet one-way delay: 57.326 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 89.47 Mbit/s
95th percentile per-packet one-way delay: 57.326 ms
Loss rate: 2.15%
```

Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 91.23 Mbit/s)   Flow 1 egress (mean 89.47 Mbit/s)

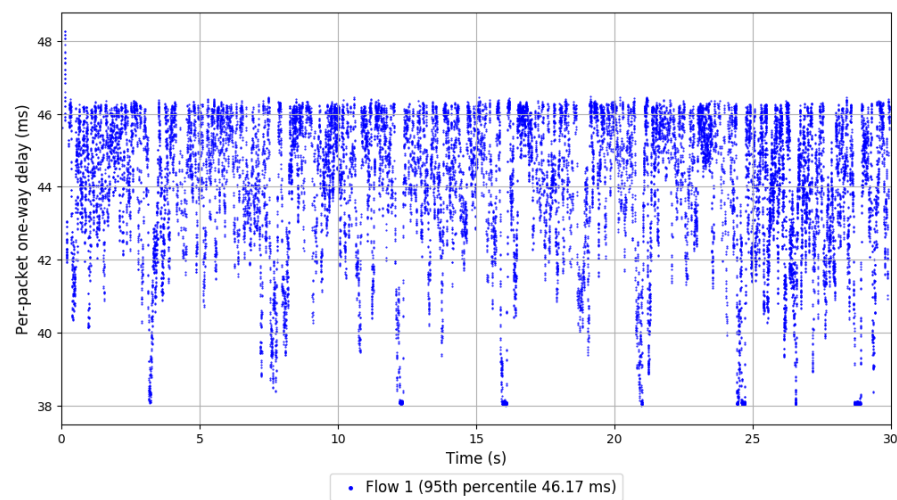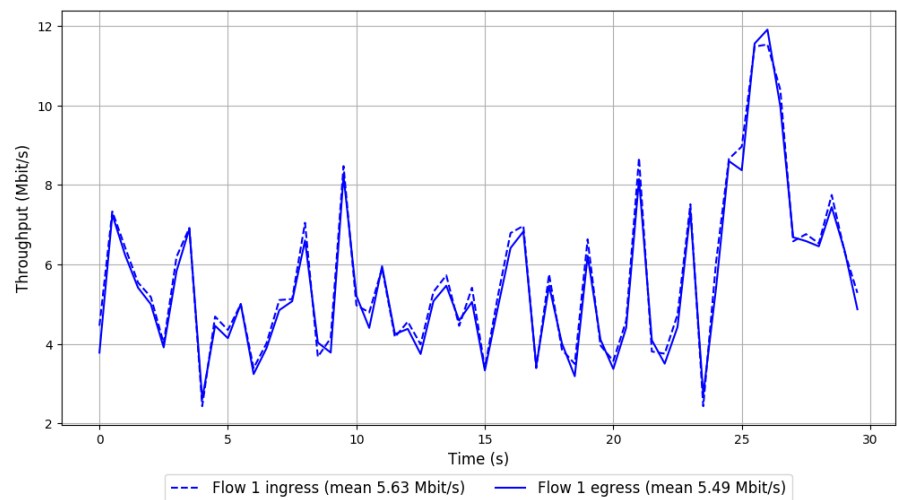Flow 1 (95th percentile 57.33 ms)

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```
Run 9: Statistics of Copa

Start at: 2018-03-27 04:15:27
End at: 2018-03-27 04:15:57
Local clock offset: -0.406 ms
Remote clock offset: -0.963 ms


# Below is generated by plot.py at 2018-03-27 09:40:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 46.172 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 46.172 ms
Loss rate: 2.70%
```

Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 5.63 Mbit/s) --- Flow 1 egress (mean 5.49 Mbit/s)
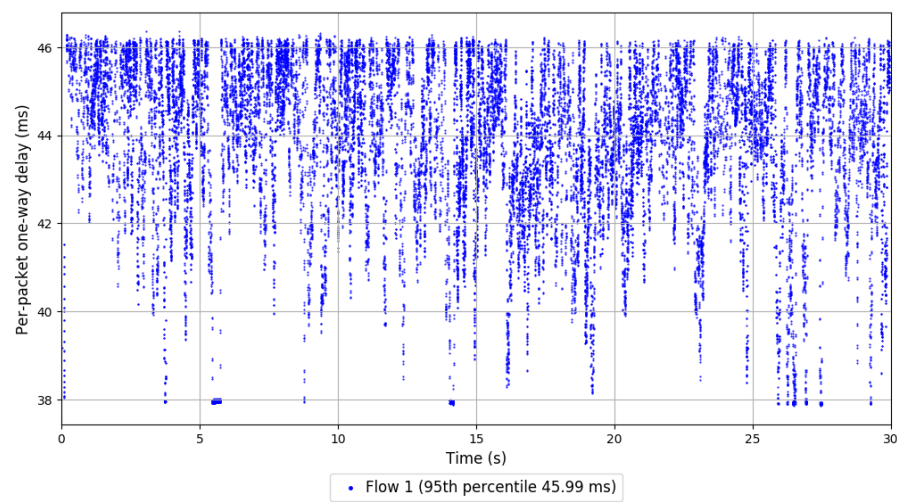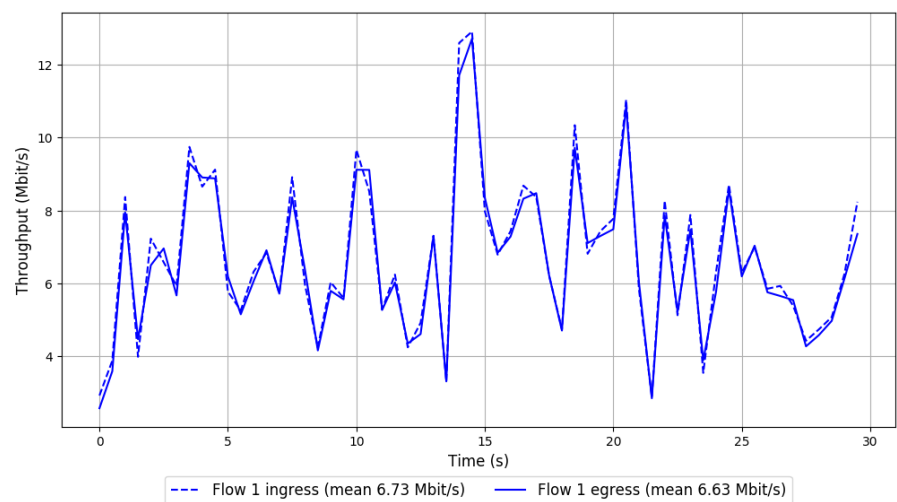

Flow 1 (95th percentile 46.17 ms)

```
Run 10: Statistics of Copa

Start at: 2018-03-27 04:45:41
End at: 2018-03-27 04:46:11
Local clock offset: -0.365 ms
Remote clock offset: -1.215 ms


# Below is generated by plot.py at 2018-03-27 09:40:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 45.987 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 45.987 ms
Loss rate: 1.73%
```

Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 6.73 Mbit/s)   Flow 1 egress (mean 6.63 Mbit/s)

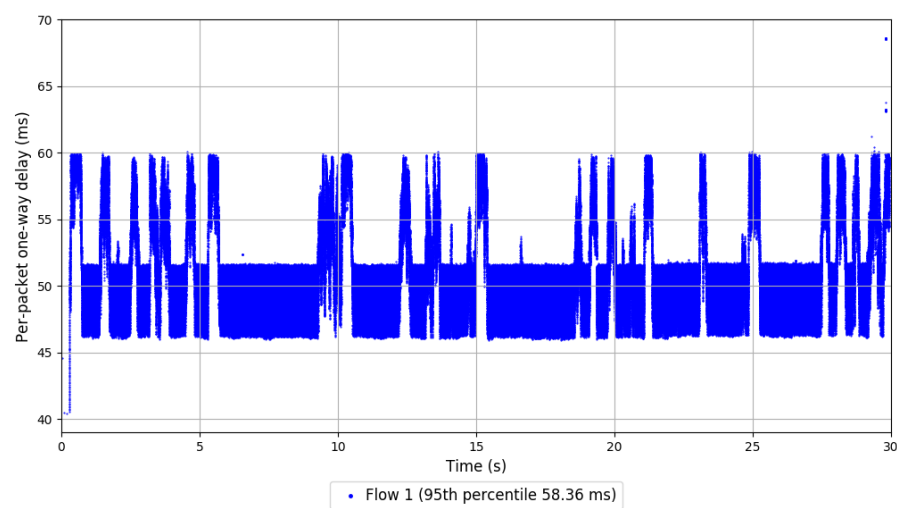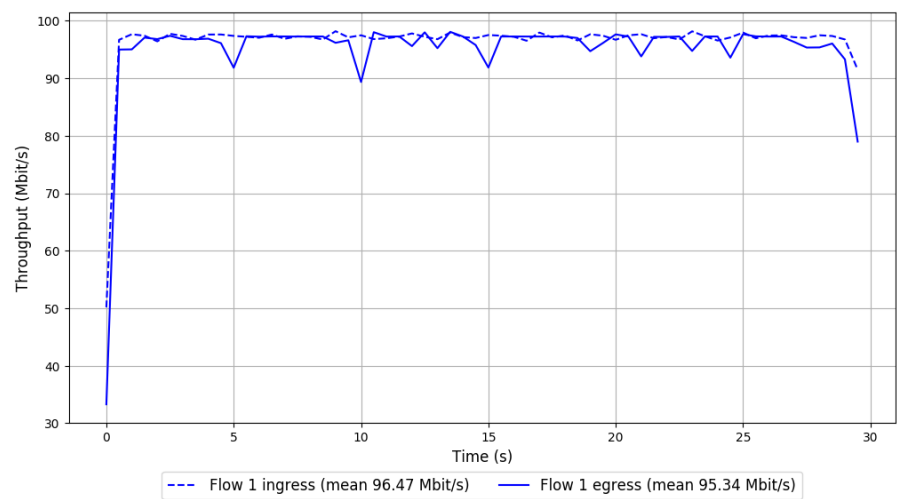Flow 1 (95th percentile 45.99 ms)

```
Run 1: Statistics of FillP

Start at: 2018-03-27 00:35:19
End at: 2018-03-27 00:35:49
Local clock offset: 4.142 ms
Remote clock offset: -4.305 ms


# Below is generated by plot.py at 2018-03-27 09:41:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.34 Mbit/s
95th percentile per-packet one-way delay: 58.356 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 95.34 Mbit/s
95th percentile per-packet one-way delay: 58.356 ms
Loss rate: 1.42%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 96.47 Mbit/s) ---- Flow 1 egress (mean 95.34 Mbit/s)

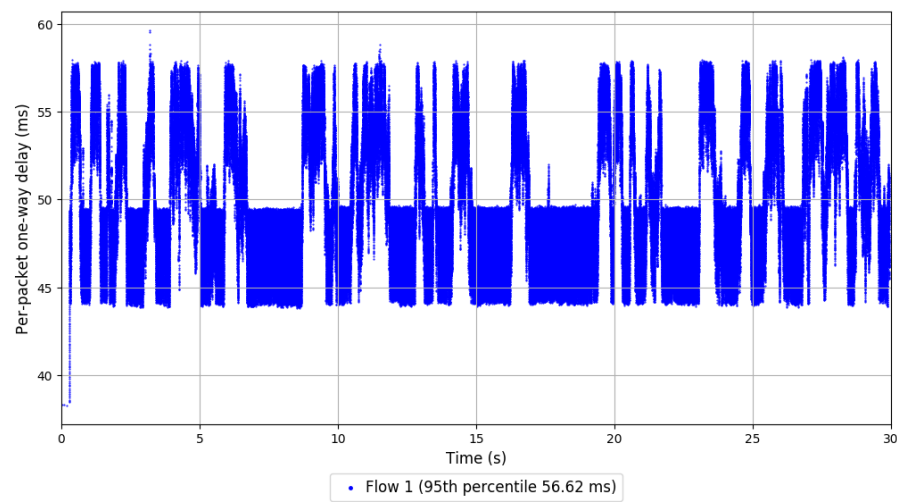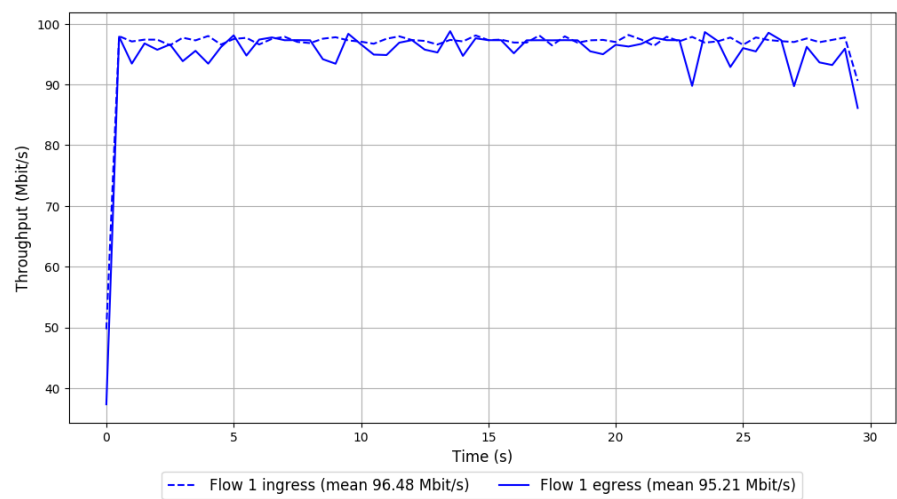Flow 1 (95th percentile 58.36 ms)

```
Run 2: Statistics of FillP

Start at: 2018-03-27 01:00:45
End at: 2018-03-27 01:01:15
Local clock offset: 6.375 ms
Remote clock offset: -1.844 ms


# Below is generated by plot.py at 2018-03-27 09:41:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 56.616 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 56.616 ms
Loss rate: 1.55%
```

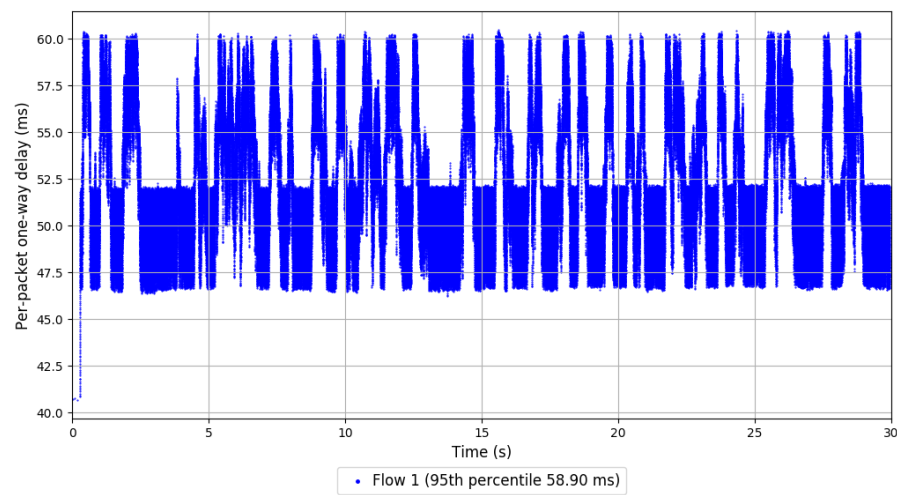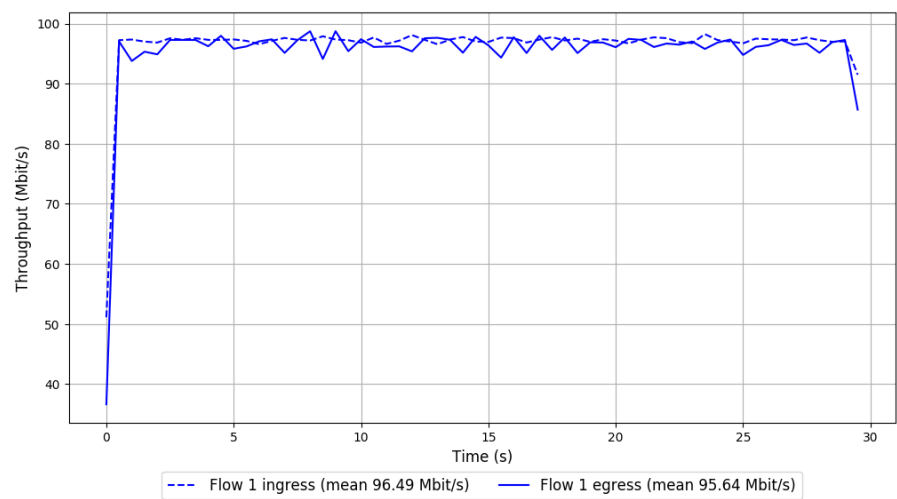Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2018-03-27 01:26:59
End at: 2018-03-27 01:27:29
Local clock offset: 3.461 ms
Remote clock offset: -3.802 ms


# Below is generated by plot.py at 2018-03-27 09:41:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 58.903 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 58.903 ms
Loss rate: 1.12%
```

Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 96.49 Mbit/s) --- Flow 1 egress (mean 95.64 Mbit/s)

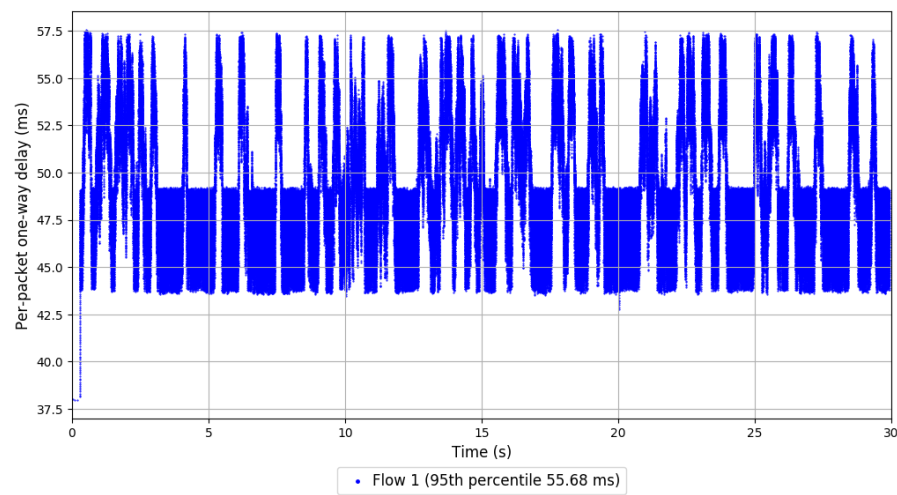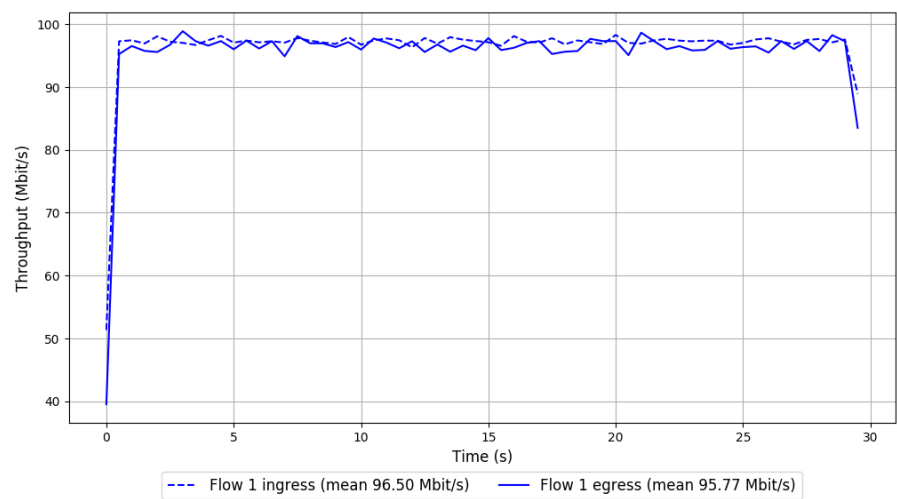Flow 1 (95th percentile 58.90 ms)

```
Run 4: Statistics of FillP

Start at: 2018-03-27 01:53:06
End at: 2018-03-27 01:53:36
Local clock offset: -0.861 ms
Remote clock offset: -1.343 ms


# Below is generated by plot.py at 2018-03-27 09:41:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 55.676 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 95.77 Mbit/s
95th percentile per-packet one-way delay: 55.676 ms
Loss rate: 0.99%
```

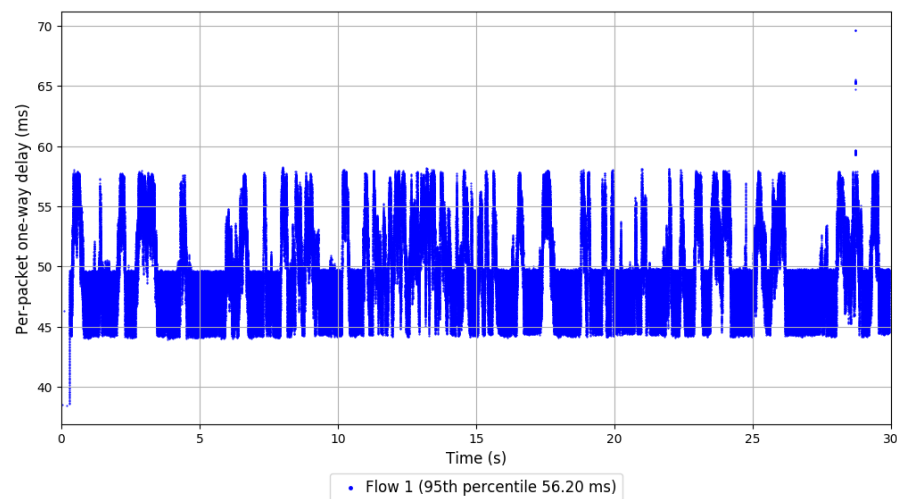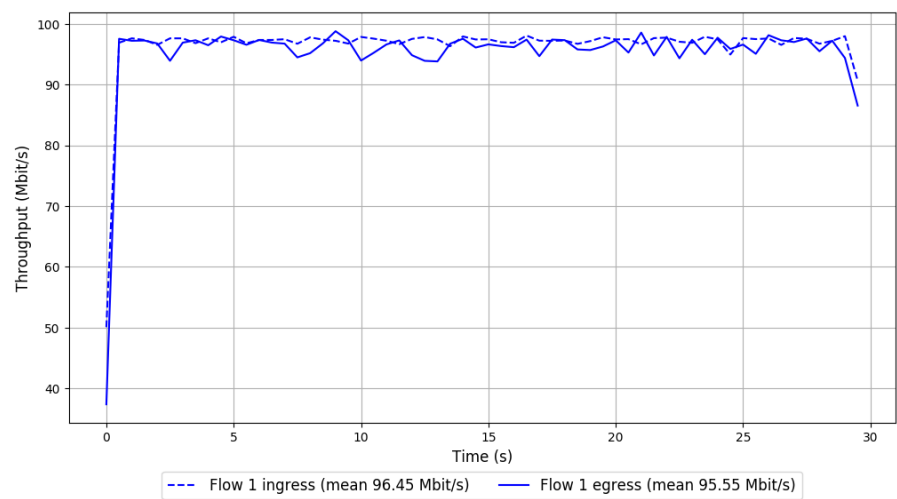# Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2018-03-27 02:19:41
End at: 2018-03-27 02:20:11
Local clock offset: 0.092 ms
Remote clock offset: -1.975 ms


# Below is generated by plot.py at 2018-03-27 09:42:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 56.197 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 56.197 ms
Loss rate: 1.16%
```

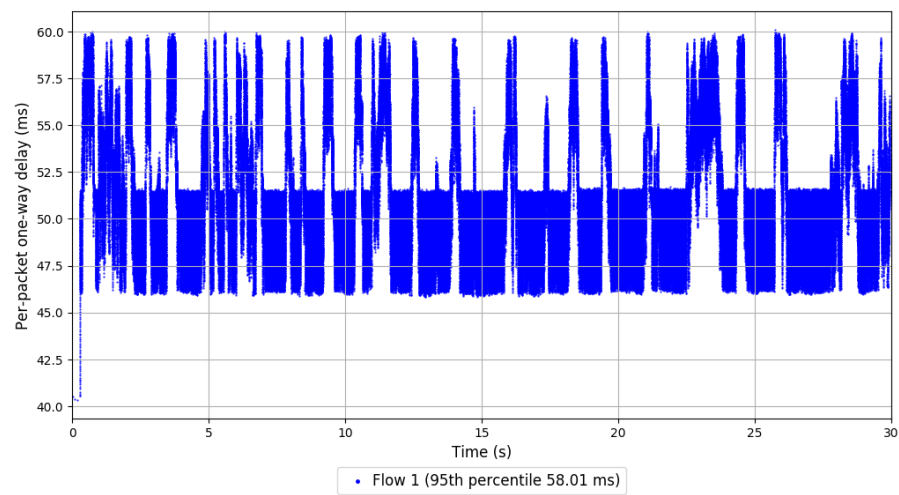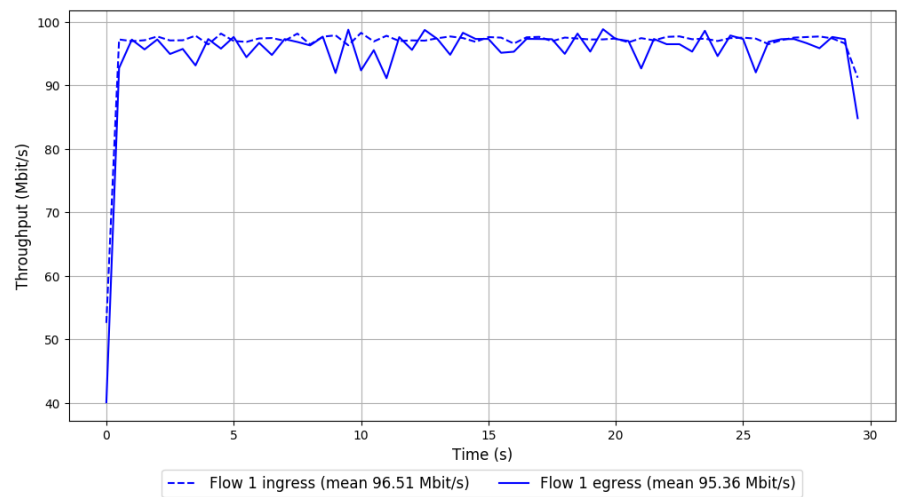Run 5: Report of FillP — Data Link

```
Run 6: Statistics of FillP

Start at: 2018-03-27 02:45:38
End at: 2018-03-27 02:46:08
Local clock offset: 5.857 ms
Remote clock offset: -4.157 ms


# Below is generated by plot.py at 2018-03-27 09:42:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 58.009 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 58.009 ms
Loss rate: 1.42%
```

Run 6: Report of FillP — Data Link

Flow 1 ingress (mean 96.51 Mbit/s)   Flow 1 egress (mean 95.36 Mbit/s)

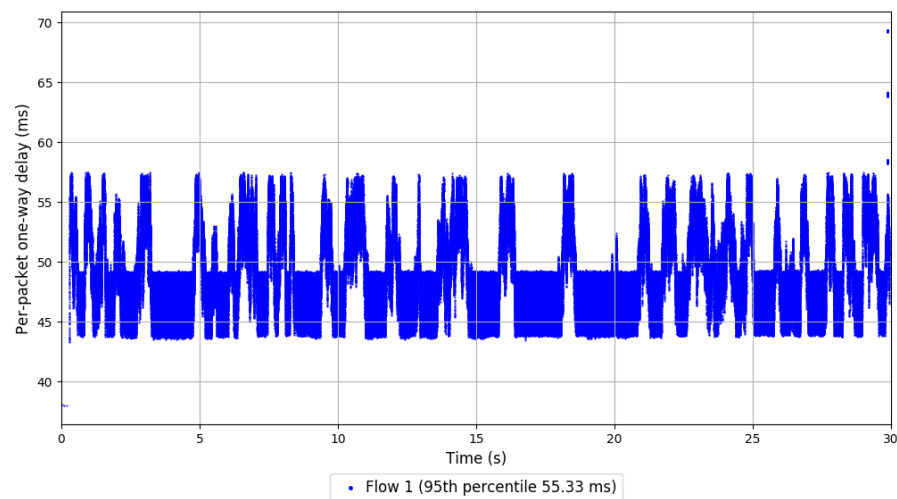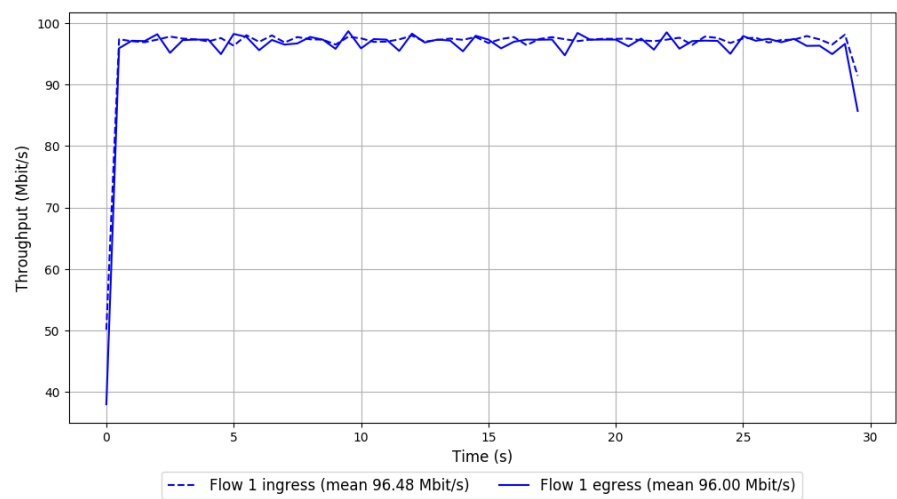Flow 1 (95th percentile 58.01 ms)

```
Run 7: Statistics of FillP

Start at: 2018-03-27 03:12:13
End at: 2018-03-27 03:12:43
Local clock offset: 4.645 ms
Remote clock offset: -1.738 ms


# Below is generated by plot.py at 2018-03-27 09:42:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 55.325 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 55.325 ms
Loss rate: 0.74%
```

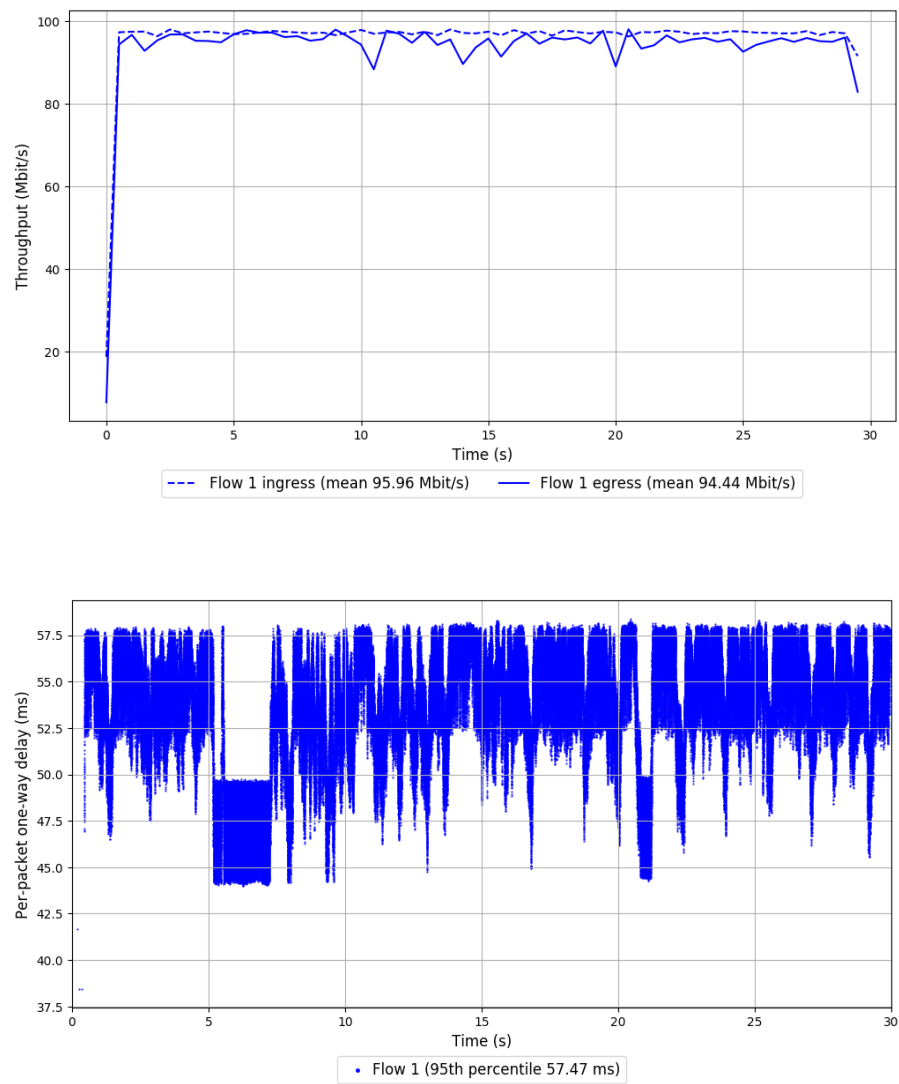Run 7: Report of FillP — Data Link

```
Run 8: Statistics of FillP

Start at: 2018-03-27 03:39:29
End at: 2018-03-27 03:39:59
Local clock offset: 2.507 ms
Remote clock offset: -2.207 ms


# Below is generated by plot.py at 2018-03-27 09:42:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 57.465 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 57.465 ms
Loss rate: 2.33%
```

Run 8: Report of FillP — Data Link

Flow 1 ingress (mean 95.96 Mbit/s) ----   Flow 1 egress (mean 94.44 Mbit/s) ——

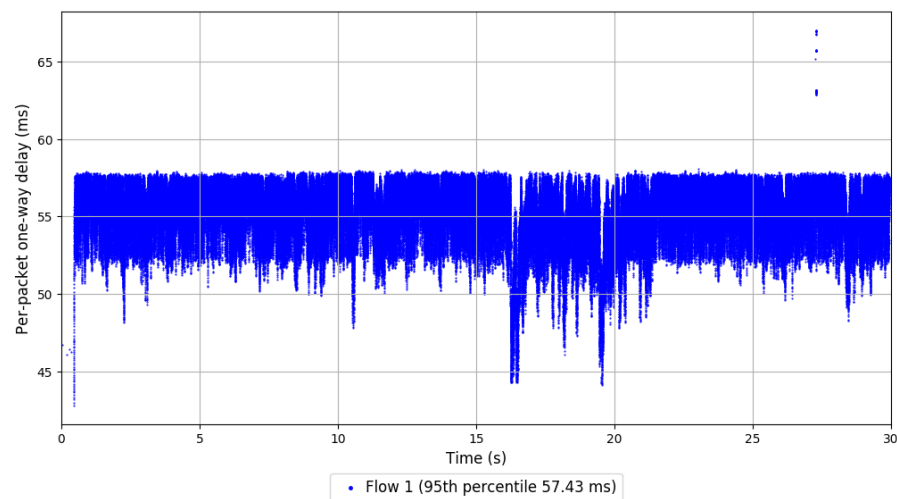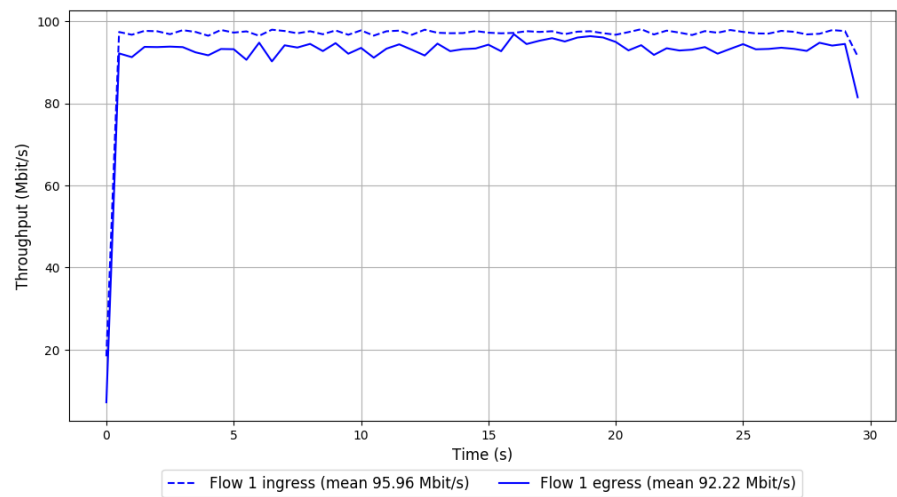• Flow 1 (95th percentile 57.47 ms)

```
Run 9: Statistics of FillP

Start at: 2018-03-27 04:08:56
End at: 2018-03-27 04:09:26
Local clock offset: -0.569 ms
Remote clock offset: -1.415 ms


# Below is generated by plot.py at 2018-03-27 09:42:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 57.427 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 92.22 Mbit/s
95th percentile per-packet one-way delay: 57.427 ms
Loss rate: 4.15%
```

Run 9: Report of FillP — Data Link

```
Run 10: Statistics of FillP

Start at: 2018-03-27 04:40:05
End at: 2018-03-27 04:40:35
Local clock offset: -0.341 ms
Remote clock offset: -1.62 ms


# Below is generated by plot.py at 2018-03-27 09:43:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 55.815 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 94.04 Mbit/s
95th percentile per-packet one-way delay: 55.815 ms
Loss rate: 2.23%
```
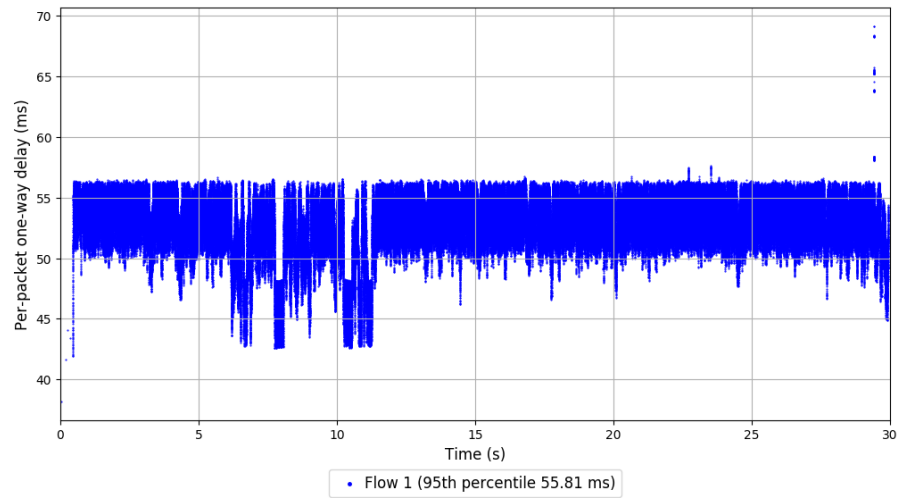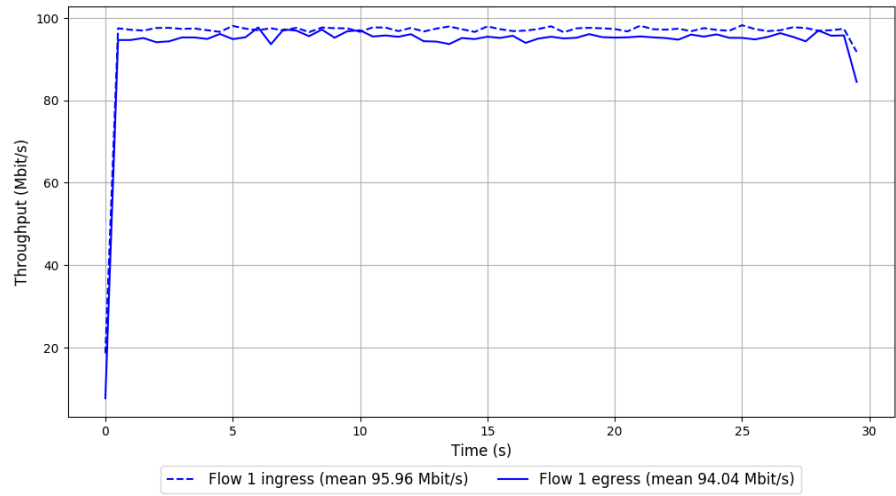
Run 10: Report of FillP — Data Link

Flow 1 ingress (mean 95.96 Mbit/s)   Flow 1 egress (mean 94.04 Mbit/s)

Flow 1 (95th percentile 55.81 ms)

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```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-27 00:46:56
End at: 2018-03-27 00:47:26
Local clock offset: 4.784 ms
Remote clock offset: -1.793 ms

# Below is generated by plot.py at 2018-03-27 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 46.158 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 46.158 ms
Loss rate: 0.66%
```
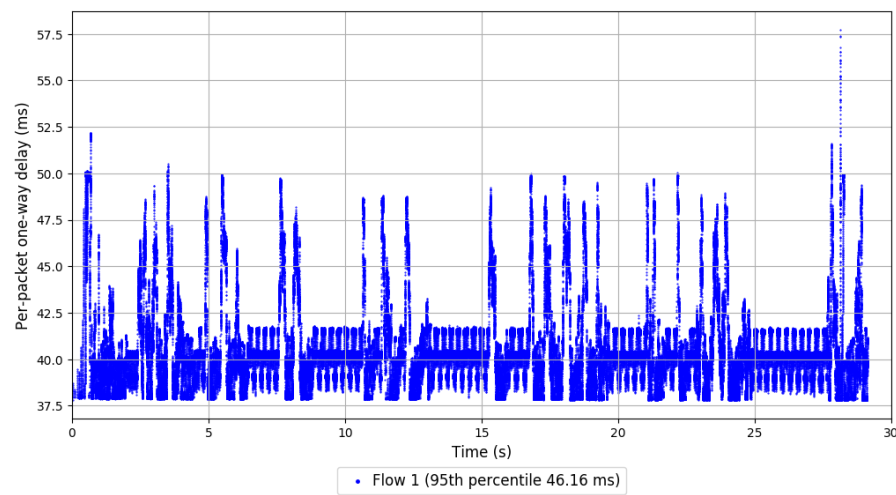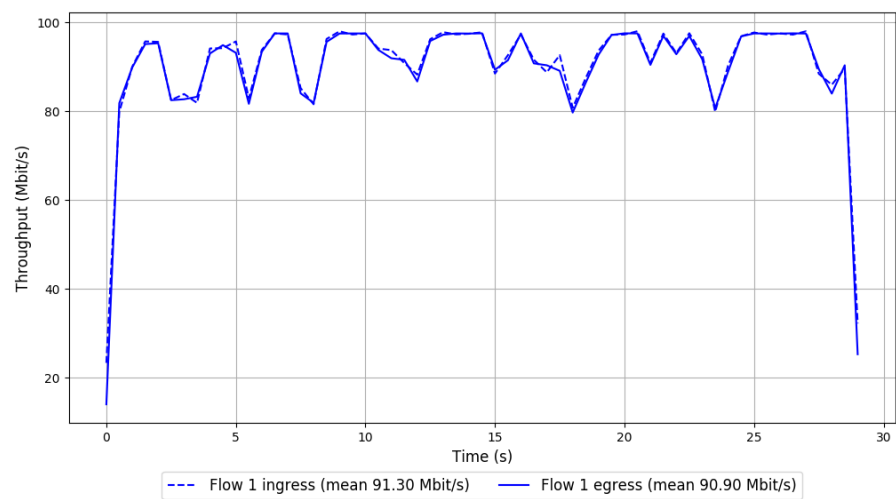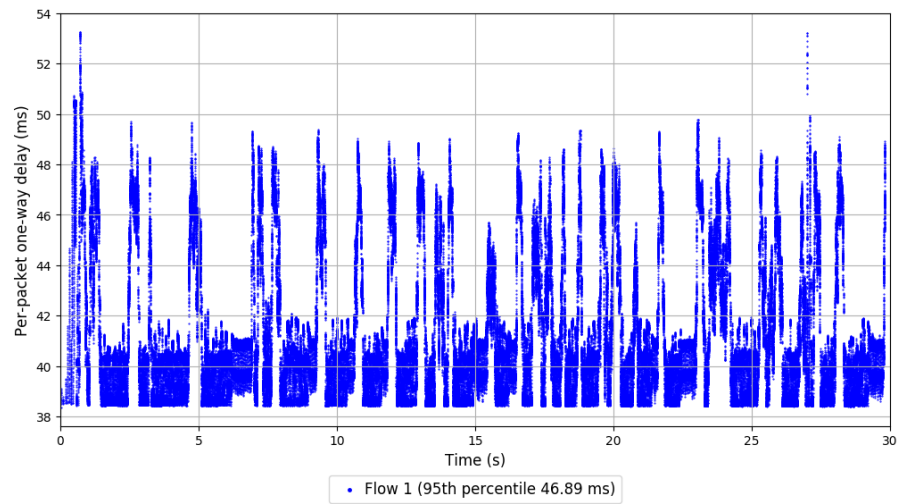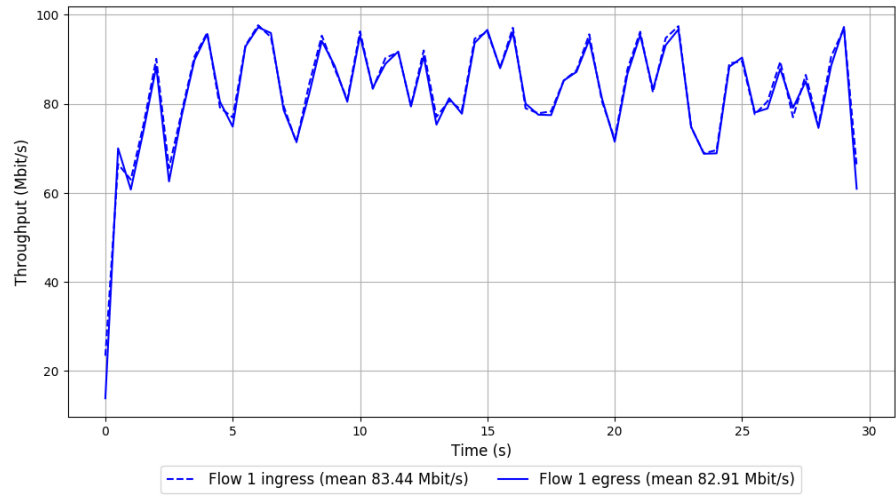
Run 1: Report of Indigo-1-32 — Data Link

```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-27 01:12:57
End at: 2018-03-27 01:13:27
Local clock offset: 7.187 ms
Remote clock offset: -1.676 ms


# Below is generated by plot.py at 2018-03-27 09:43:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.91 Mbit/s
95th percentile per-packet one-way delay: 46.892 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 82.91 Mbit/s
95th percentile per-packet one-way delay: 46.892 ms
Loss rate: 0.86%
```

Run 2: Report of Indigo-1-32 — Data Link

```
Run 3: Statistics of Indigo-1-32

Start at: 2018-03-27 01:39:04
End at: 2018-03-27 01:39:34
Local clock offset: 0.38 ms
Remote clock offset: -1.752 ms


# Below is generated by plot.py at 2018-03-27 09:43:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.42 Mbit/s
95th percentile per-packet one-way delay: 47.204 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 77.42 Mbit/s
95th percentile per-packet one-way delay: 47.204 ms
Loss rate: 1.01%
```
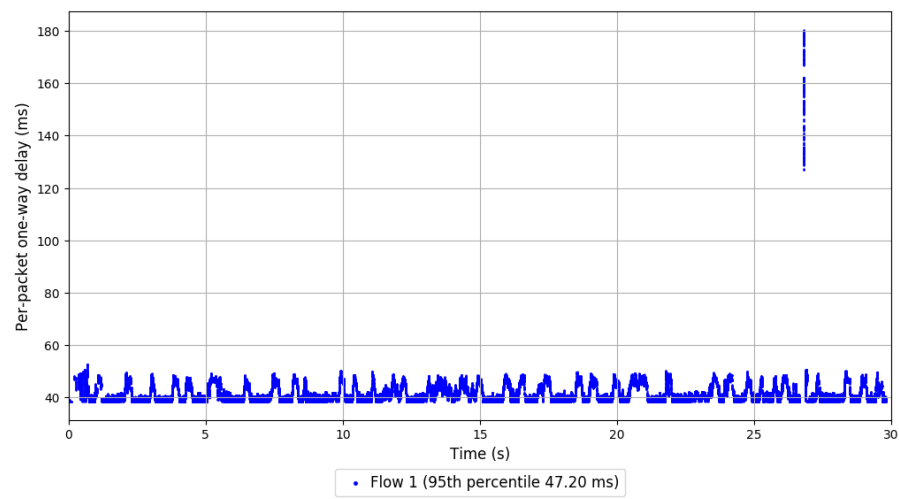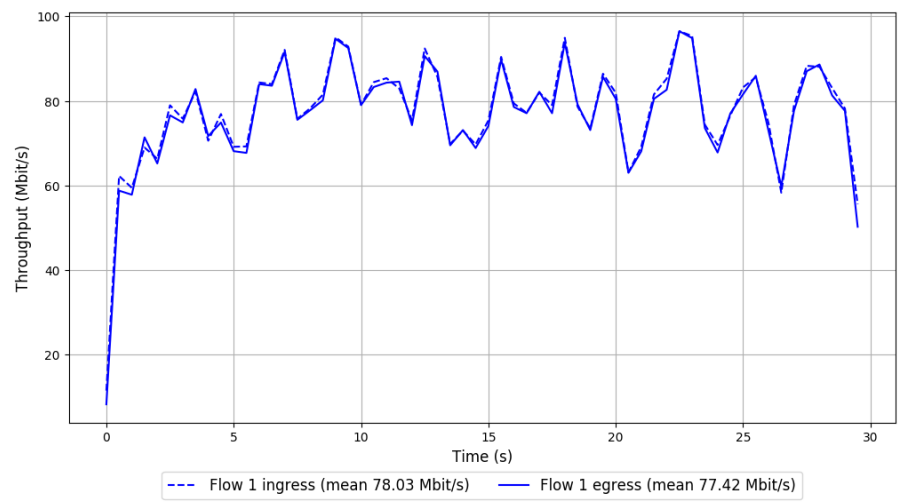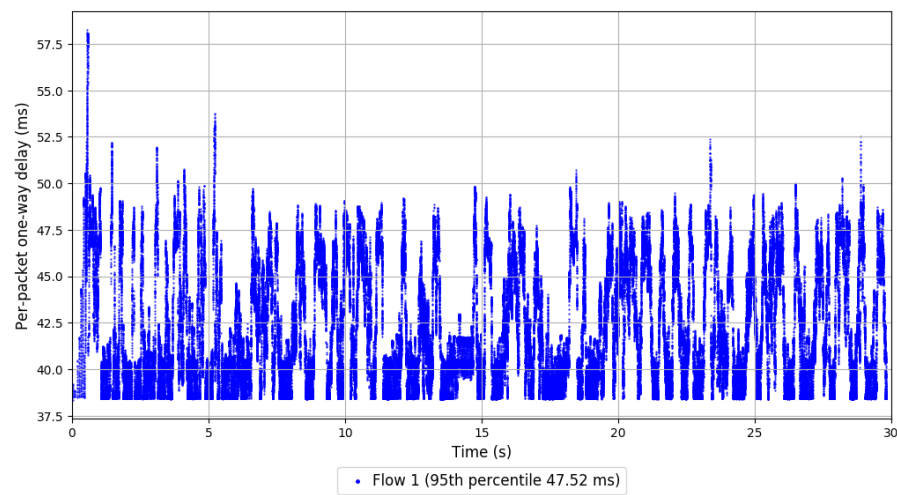
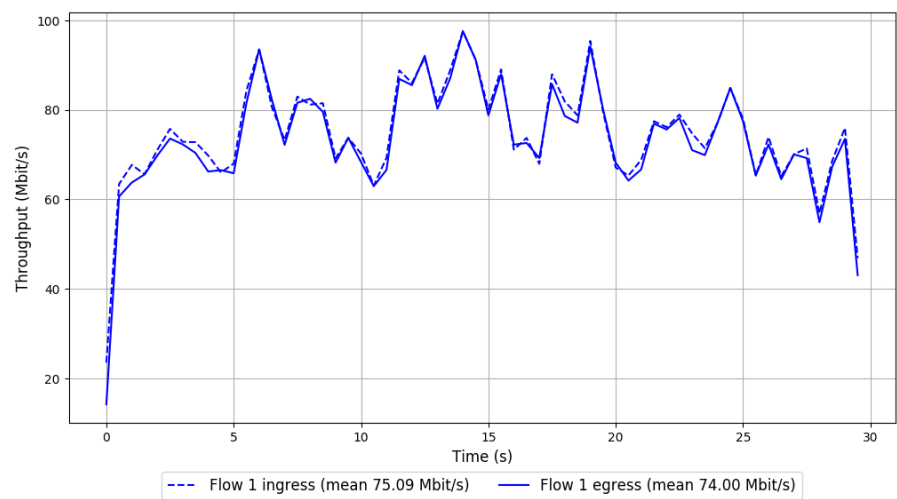Run 3: Report of Indigo-1-32 — Data Link

```
Run 4: Statistics of Indigo-1-32

Start at: 2018-03-27 02:05:19
End at: 2018-03-27 02:05:49
Local clock offset: -0.039 ms
Remote clock offset: -1.835 ms


# Below is generated by plot.py at 2018-03-27 09:43:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.00 Mbit/s
95th percentile per-packet one-way delay: 47.524 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 74.00 Mbit/s
95th percentile per-packet one-way delay: 47.524 ms
Loss rate: 1.67%
```

Run 4: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 75.09 Mbit/s)   Flow 1 egress (mean 74.00 Mbit/s)

Flow 1 (95th percentile 47.52 ms)

```
Run 5: Statistics of Indigo-1-32

Start at: 2018-03-27 02:31:39
End at: 2018-03-27 02:32:09
Local clock offset: 1.749 ms
Remote clock offset: -1.593 ms


# Below is generated by plot.py at 2018-03-27 09:43:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.31 Mbit/s
95th percentile per-packet one-way delay: 46.081 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 82.31 Mbit/s
95th percentile per-packet one-way delay: 46.081 ms
Loss rate: 0.86%
```
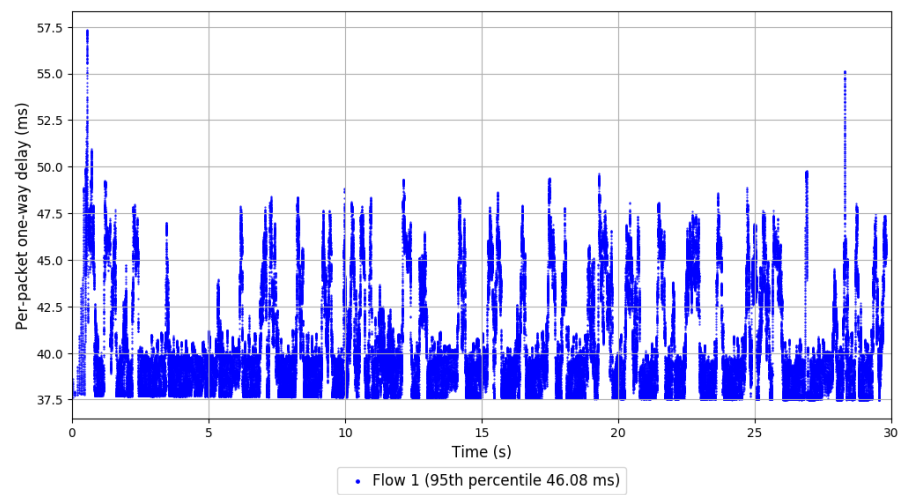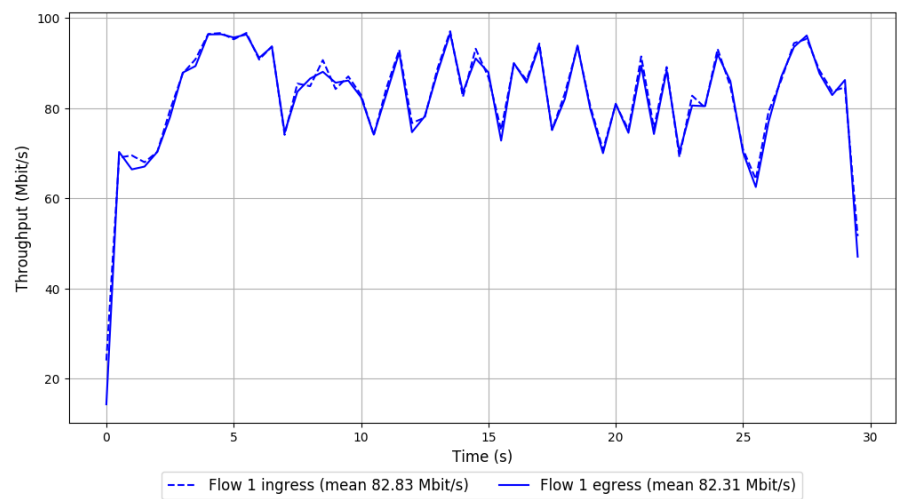
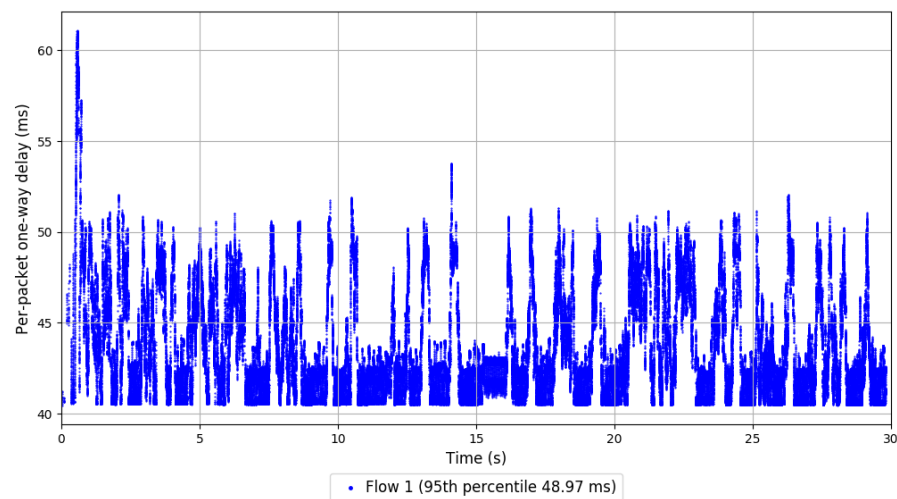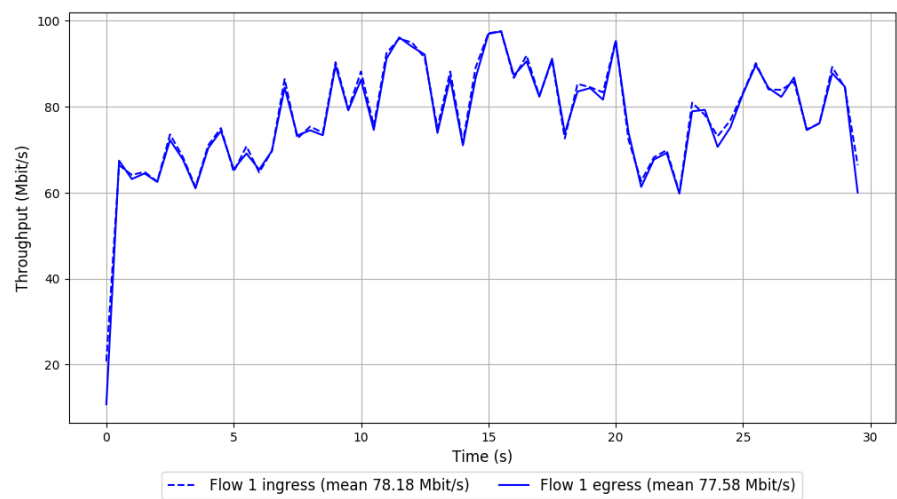Run 5: Report of Indigo-1-32 — Data Link

```
Run 6: Statistics of Indigo-1-32

Start at: 2018-03-27 02:58:22
End at: 2018-03-27 02:58:52
Local clock offset: 7.301 ms
Remote clock offset: -4.398 ms


# Below is generated by plot.py at 2018-03-27 09:43:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 48.965 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 77.58 Mbit/s
95th percentile per-packet one-way delay: 48.965 ms
Loss rate: 0.99%
```

Run 6: Report of Indigo-1-32 — Data Link

```
Run 7: Statistics of Indigo-1-32

Start at: 2018-03-27 03:24:58
End at: 2018-03-27 03:25:28
Local clock offset: 3.529 ms
Remote clock offset: -2.108 ms


# Below is generated by plot.py at 2018-03-27 09:43:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 47.512 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 52.23 Mbit/s
95th percentile per-packet one-way delay: 47.512 ms
Loss rate: 1.54%
```
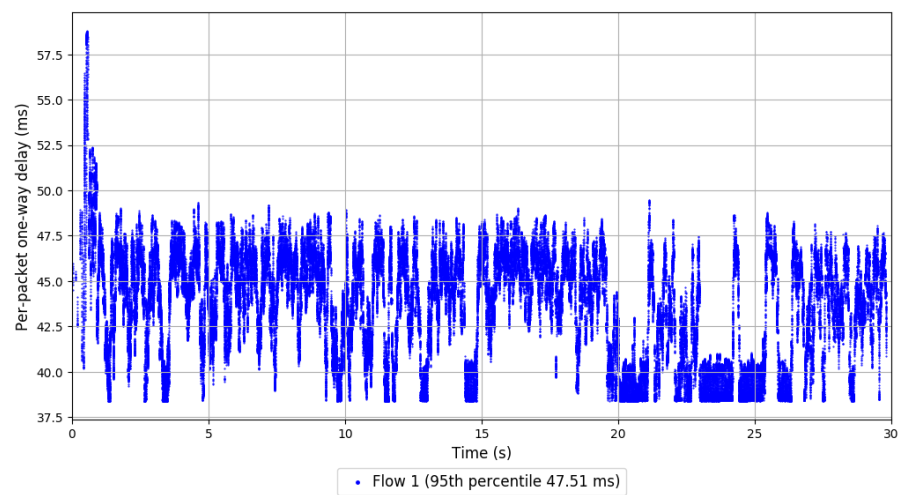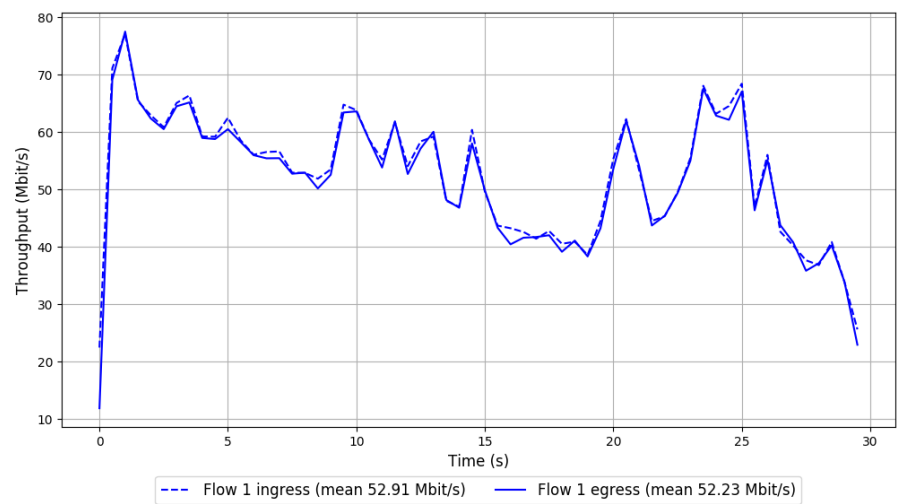
Run 7: Report of Indigo-1-32 — Data Link

```
Run 8: Statistics of Indigo-1-32

Start at: 2018-03-27 03:53:27
End at: 2018-03-27 03:53:57
Local clock offset: 0.394 ms
Remote clock offset: -1.463 ms


# Below is generated by plot.py at 2018-03-27 09:43:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 47.783 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 38.73 Mbit/s
95th percentile per-packet one-way delay: 47.783 ms
Loss rate: 2.13%
```
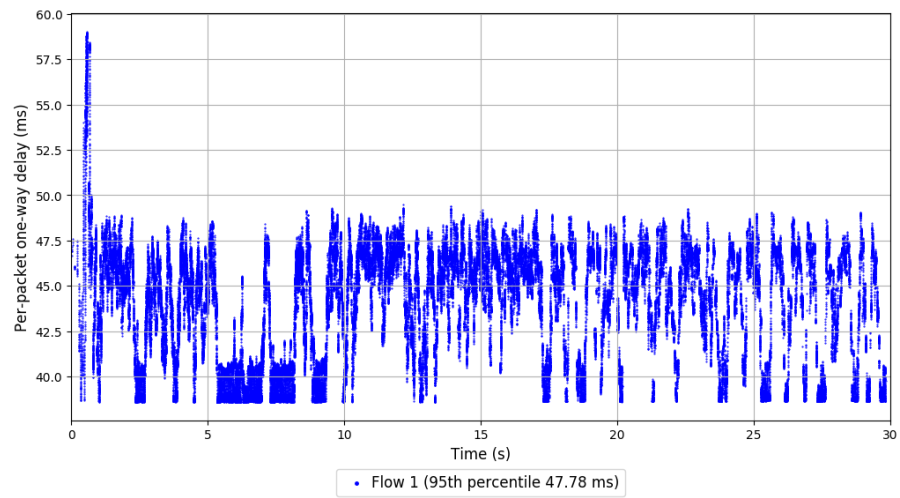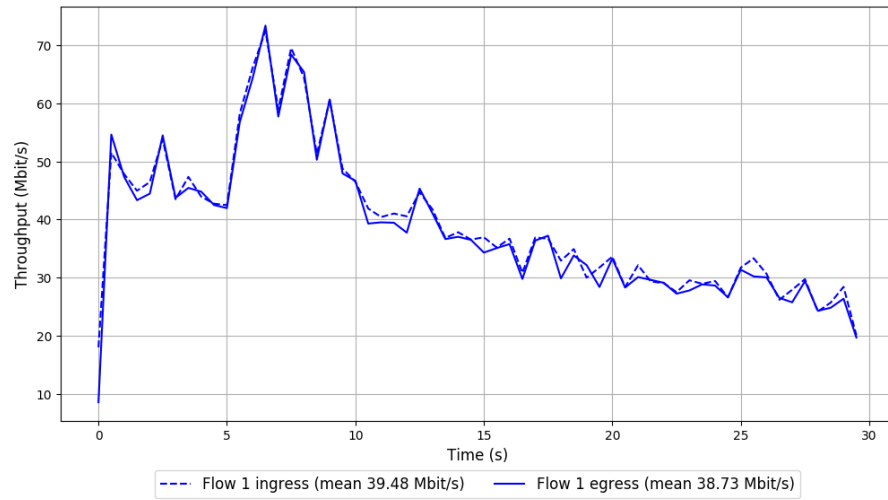
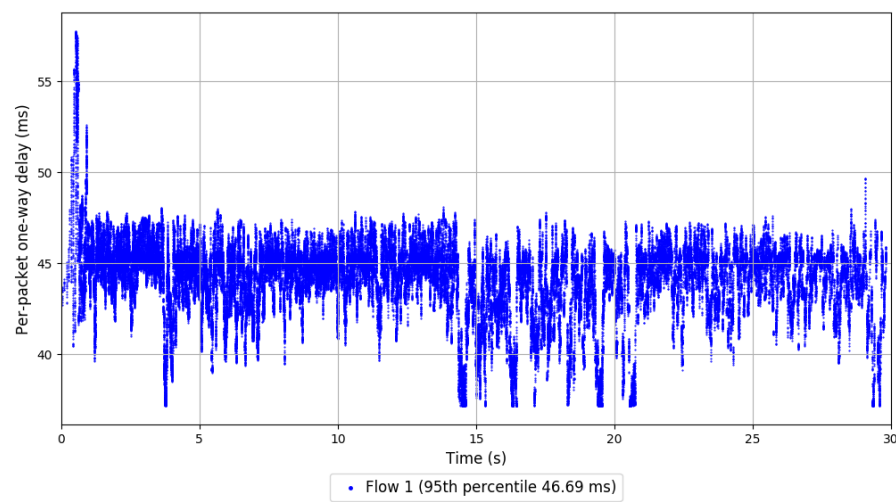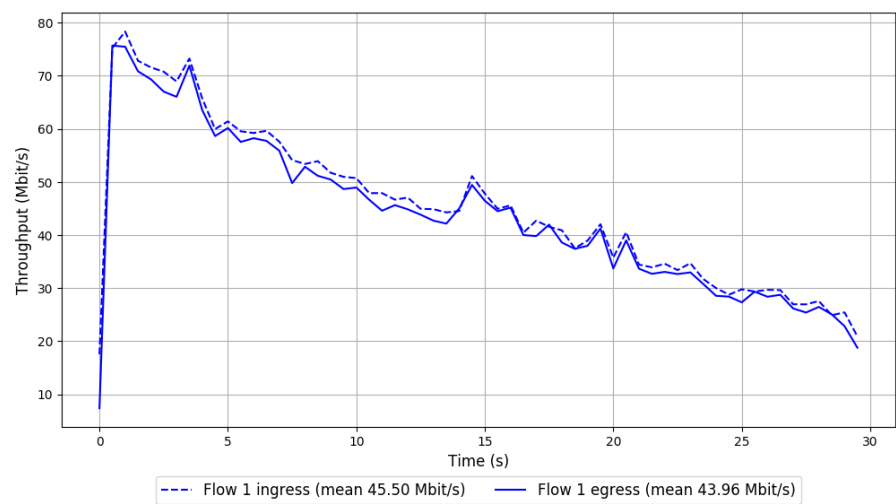Run 8: Report of Indigo-1-32 — Data Link

```
Run 9: Statistics of Indigo-1-32

Start at: 2018-03-27 04:24:31
End at: 2018-03-27 04:25:01
Local clock offset: -0.285 ms
Remote clock offset: -1.565 ms

# Below is generated by plot.py at 2018-03-27 09:43:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.96 Mbit/s
95th percentile per-packet one-way delay: 46.688 ms
Loss rate: 3.60%
-- Flow 1:
Average throughput: 43.96 Mbit/s
95th percentile per-packet one-way delay: 46.688 ms
Loss rate: 3.60%
```

Run 9: Report of Indigo-1-32 — Data Link

```
Run 10: Statistics of Indigo-1-32

Start at: 2018-03-27 04:53:21
End at: 2018-03-27 04:53:51
Local clock offset: 0.093 ms
Remote clock offset: -5.05 ms


# Below is generated by plot.py at 2018-03-27 09:44:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.94 Mbit/s
95th percentile per-packet one-way delay: 48.630 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 82.94 Mbit/s
95th percentile per-packet one-way delay: 48.630 ms
Loss rate: 0.53%
```
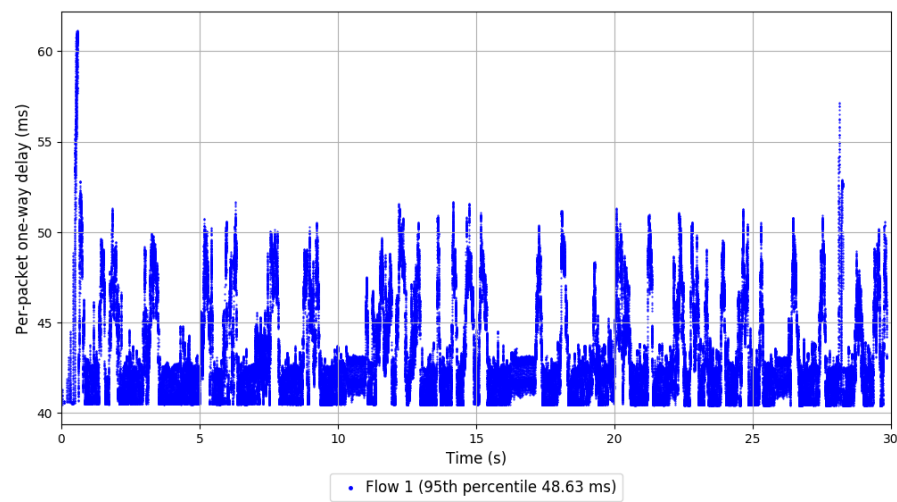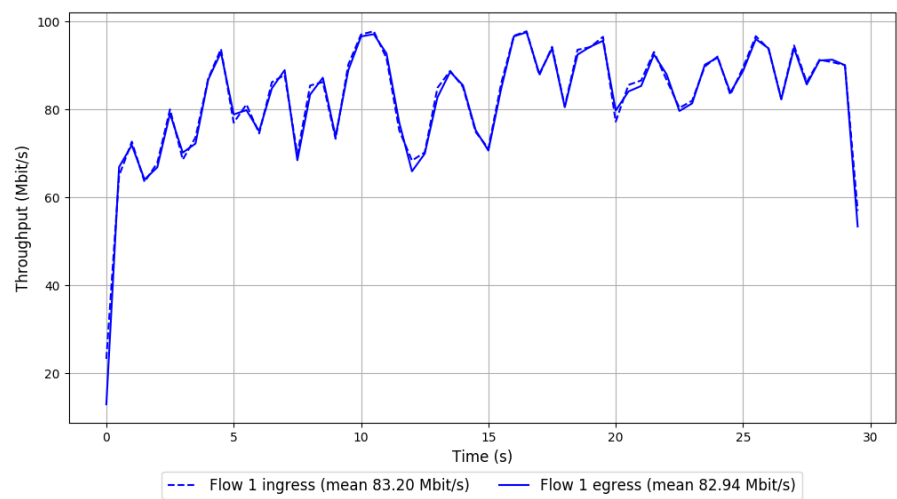
Run 10: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 83.20 Mbit/s)   ——— Flow 1 egress (mean 82.94 Mbit/s)

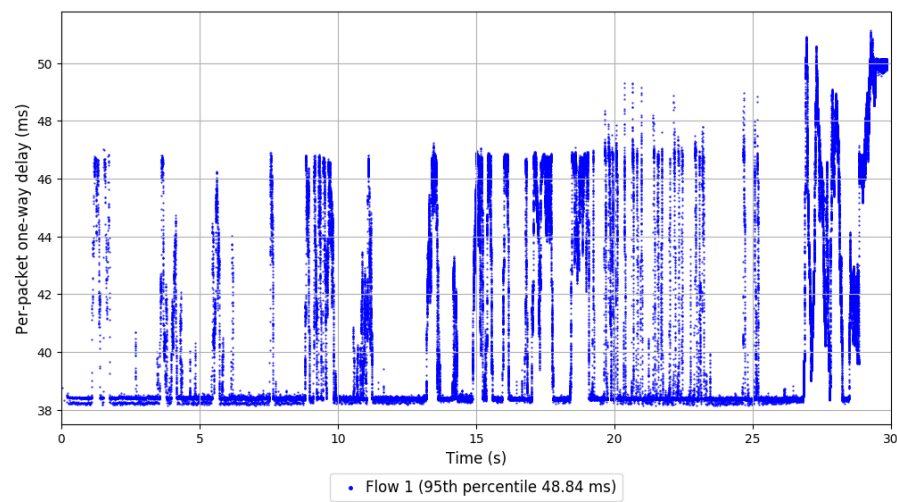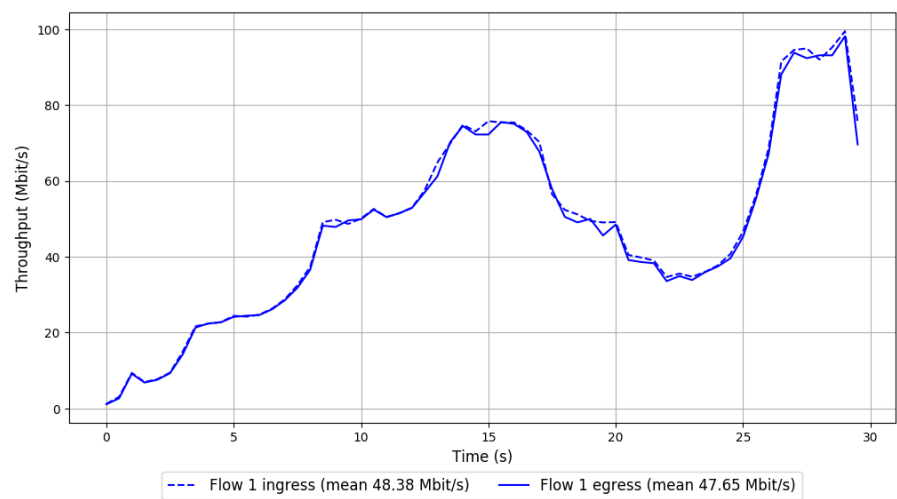

• Flow 1 (95th percentile 48.63 ms)

```
Run 1: Statistics of Vivace-latency

Start at: 2018-03-27 00:55:17
End at: 2018-03-27 00:55:47
Local clock offset: 5.916 ms
Remote clock offset: -1.946 ms


# Below is generated by plot.py at 2018-03-27 09:44:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 48.840 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 47.65 Mbit/s
95th percentile per-packet one-way delay: 48.840 ms
Loss rate: 1.75%
```

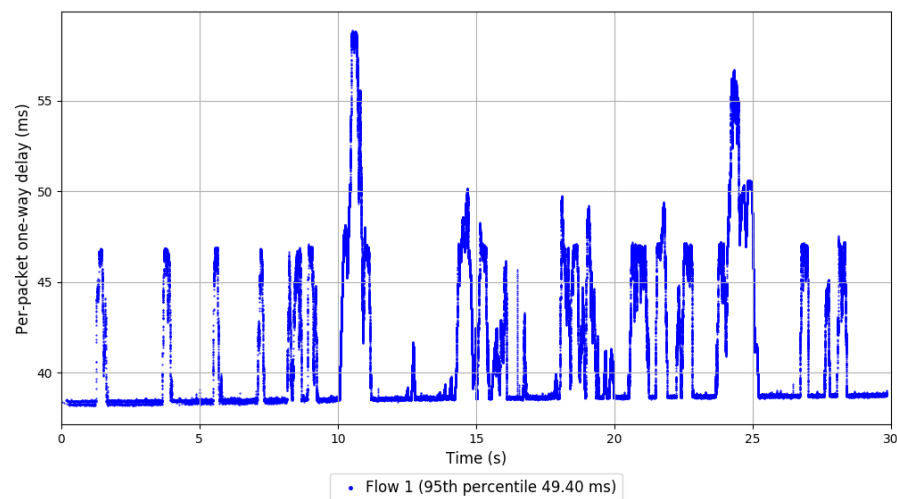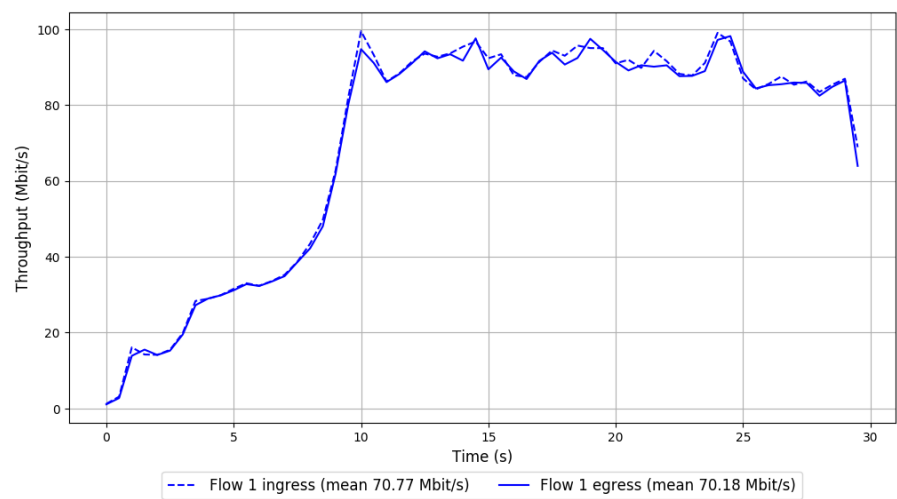Run 1: Report of Vivace-latency — Data Link

```
Run 2: Statistics of Vivace-latency

Start at: 2018-03-27 01:21:20
End at: 2018-03-27 01:21:50
Local clock offset: 6.865 ms
Remote clock offset: -1.156 ms


# Below is generated by plot.py at 2018-03-27 09:44:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.18 Mbit/s
95th percentile per-packet one-way delay: 49.403 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 70.18 Mbit/s
95th percentile per-packet one-way delay: 49.403 ms
Loss rate: 1.07%
```

Run 2: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 70.77 Mbit/s) — Flow 1 egress (mean 70.18 Mbit/s)

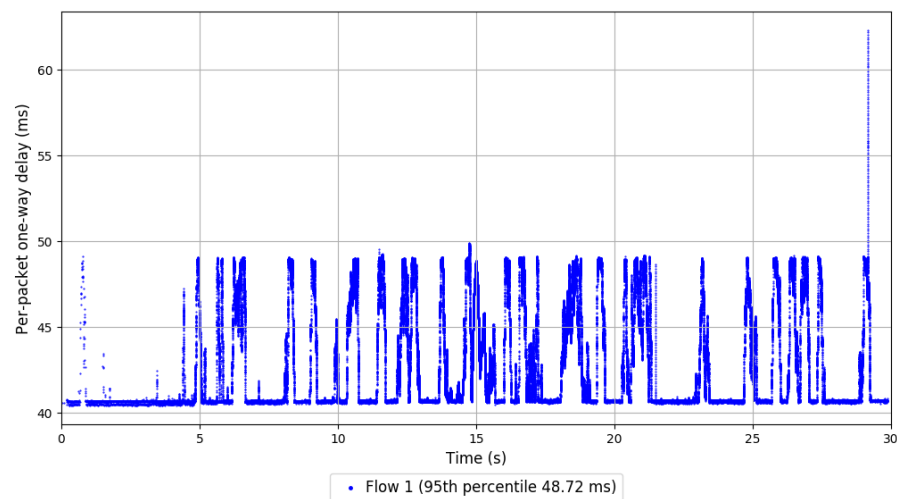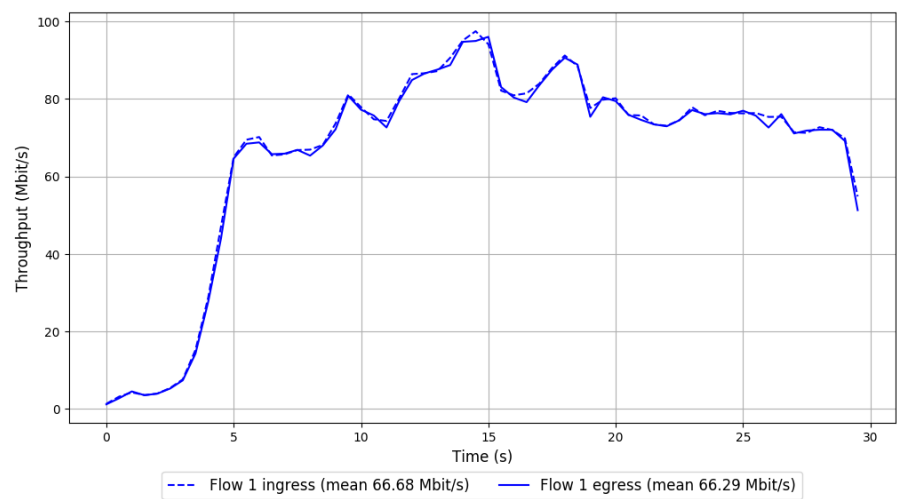

• Flow 1 (95th percentile 49.40 ms)

```
Run 3: Statistics of Vivace-latency

Start at: 2018-03-27 01:47:34
End at: 2018-03-27 01:48:04
Local clock offset: -0.41 ms
Remote clock offset: -3.859 ms


# Below is generated by plot.py at 2018-03-27 09:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.29 Mbit/s
95th percentile per-packet one-way delay: 48.724 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 66.29 Mbit/s
95th percentile per-packet one-way delay: 48.724 ms
Loss rate: 0.81%
```

Run 3: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 66.68 Mbit/s) — — — — Flow 1 egress (mean 66.29 Mbit/s)

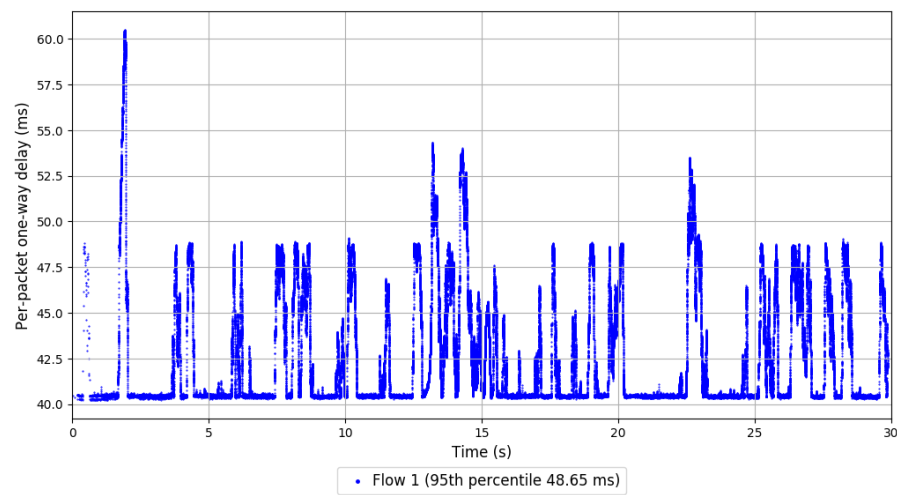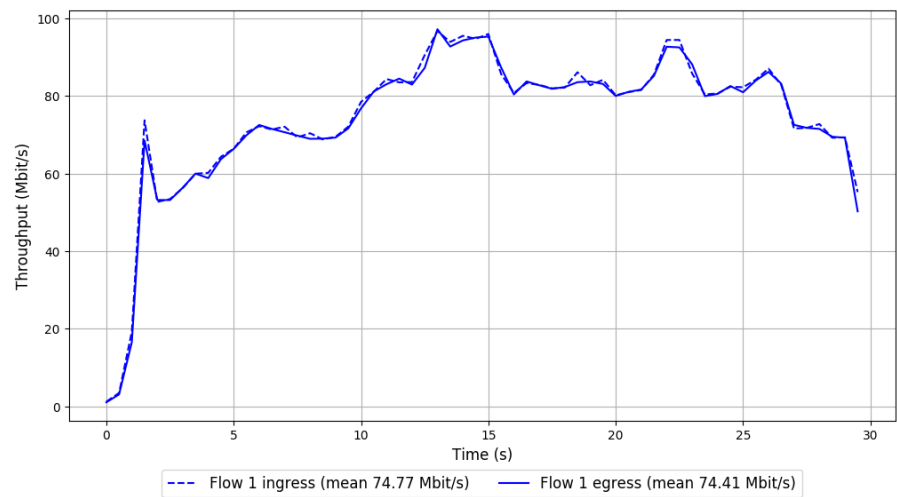

• Flow 1 (95th percentile 48.72 ms)

```
Run 4: Statistics of Vivace-latency

Start at: 2018-03-27 02:14:06
End at: 2018-03-27 02:14:36
Local clock offset: 0.034 ms
Remote clock offset: -3.965 ms


# Below is generated by plot.py at 2018-03-27 09:44:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.41 Mbit/s
95th percentile per-packet one-way delay: 48.645 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 74.41 Mbit/s
95th percentile per-packet one-way delay: 48.645 ms
Loss rate: 0.70%
```

Run 4: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 74.77 Mbit/s) — — —   Flow 1 egress (mean 74.41 Mbit/s) ———

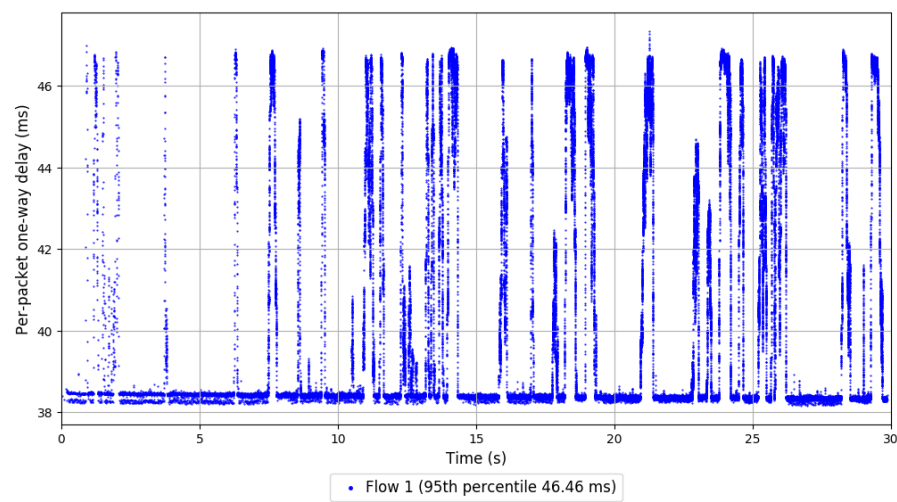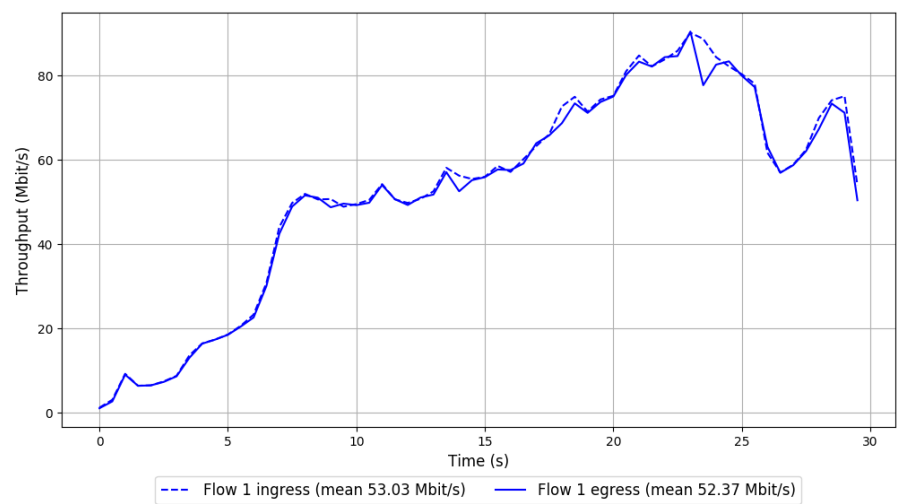

• Flow 1 (95th percentile 48.65 ms)

```
Run 5: Statistics of Vivace-latency

Start at: 2018-03-27 02:40:08
End at: 2018-03-27 02:40:38
Local clock offset: 4.83 ms
Remote clock offset: -2.152 ms


# Below is generated by plot.py at 2018-03-27 09:44:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 46.458 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 52.37 Mbit/s
95th percentile per-packet one-way delay: 46.458 ms
Loss rate: 1.49%
```

Run 5: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 53.03 Mbit/s) --- Flow 1 egress (mean 52.37 Mbit/s)

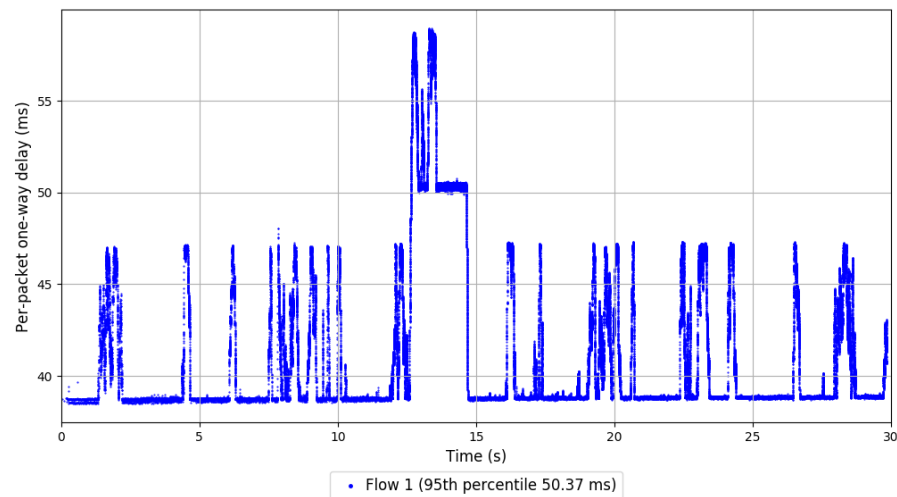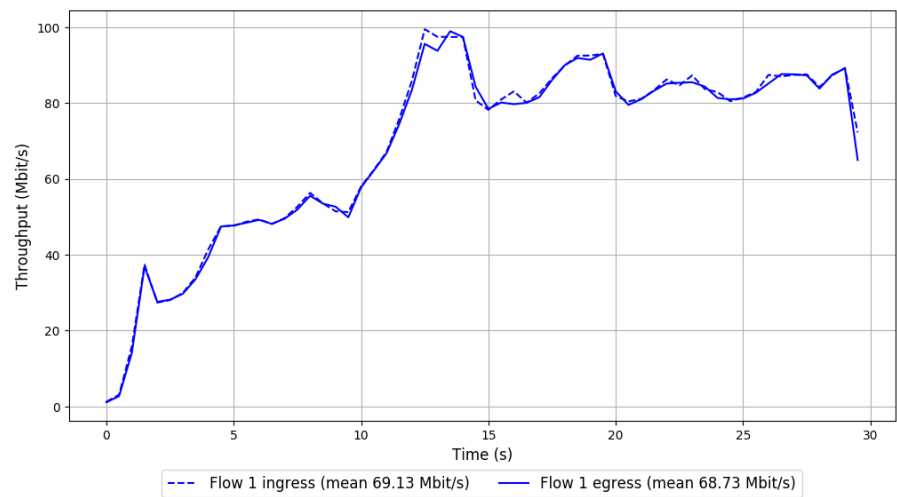

• Flow 1 (95th percentile 46.46 ms)

```
Run 6: Statistics of Vivace-latency

Start at: 2018-03-27 03:06:44
End at: 2018-03-27 03:07:14
Local clock offset: 6.077 ms
Remote clock offset: -2.232 ms


# Below is generated by plot.py at 2018-03-27 09:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.73 Mbit/s
95th percentile per-packet one-way delay: 50.372 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 68.73 Mbit/s
95th percentile per-packet one-way delay: 50.372 ms
Loss rate: 0.81%
```

Run 6: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 69.13 Mbit/s)   Flow 1 egress (mean 68.73 Mbit/s)
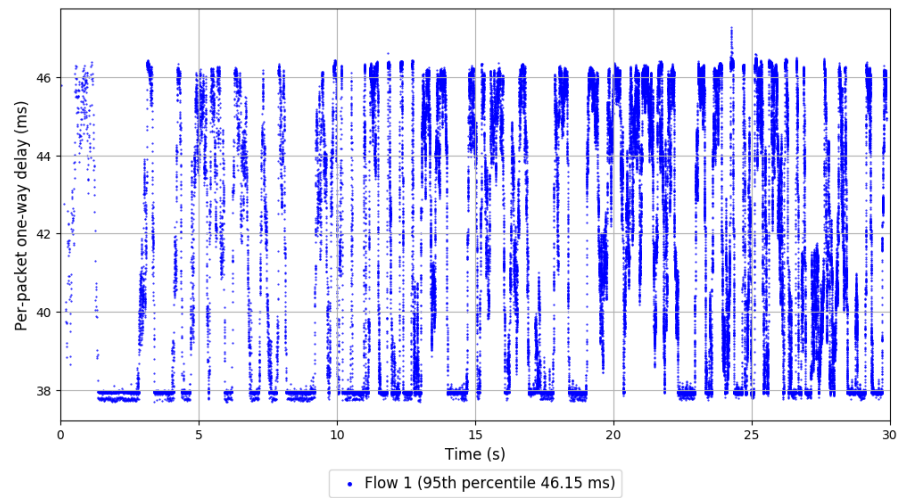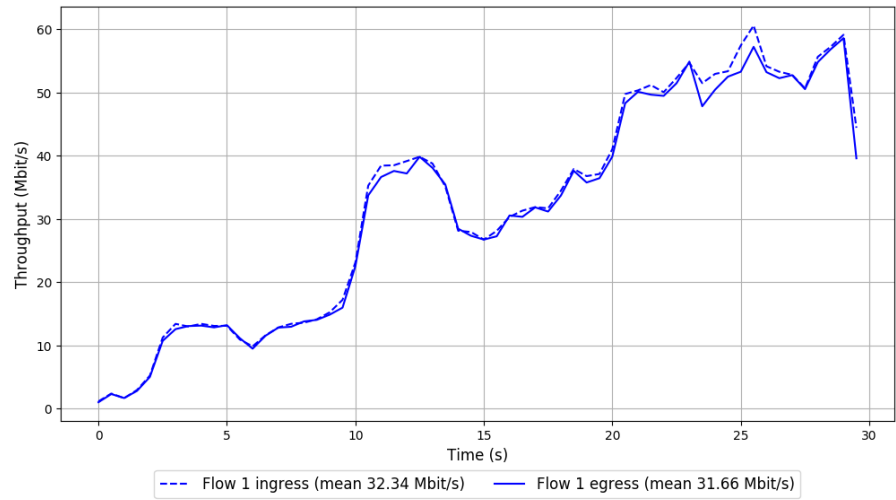

Flow 1 (95th percentile 50.37 ms)

```
Run 7: Statistics of Vivace-latency

Start at: 2018-03-27 03:33:34
End at: 2018-03-27 03:34:04
Local clock offset: 3.3 ms
Remote clock offset: -1.719 ms


# Below is generated by plot.py at 2018-03-27 09:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 46.150 ms
Loss rate: 2.36%
-- Flow 1:
Average throughput: 31.66 Mbit/s
95th percentile per-packet one-way delay: 46.150 ms
Loss rate: 2.36%
```

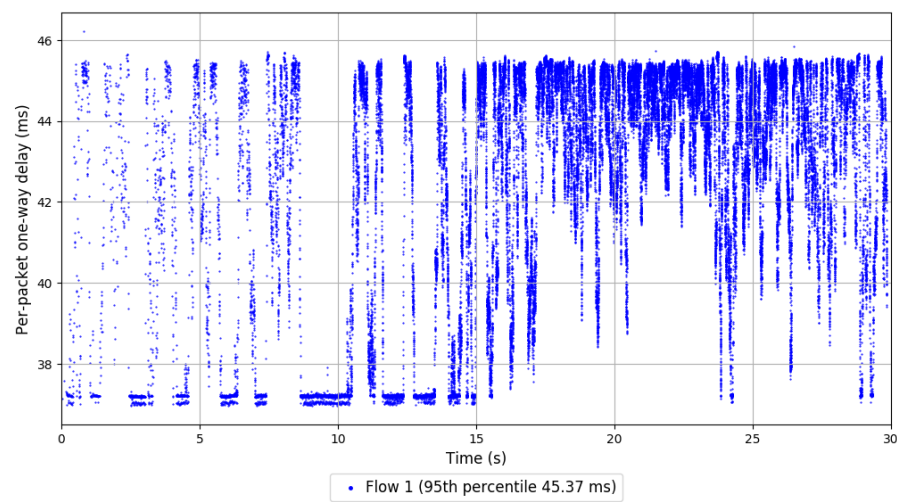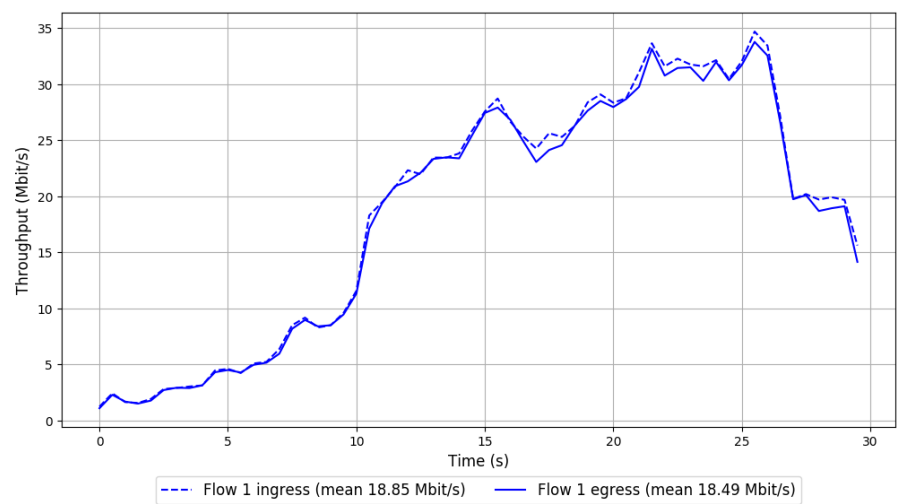Run 7: Report of Vivace-latency — Data Link

```
Run 8: Statistics of Vivace-latency

Start at: 2018-03-27 04:02:10
End at: 2018-03-27 04:02:40
Local clock offset: -0.209 ms
Remote clock offset: -1.378 ms


# Below is generated by plot.py at 2018-03-27 09:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.49 Mbit/s
95th percentile per-packet one-way delay: 45.365 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 18.49 Mbit/s
95th percentile per-packet one-way delay: 45.365 ms
Loss rate: 2.11%
```

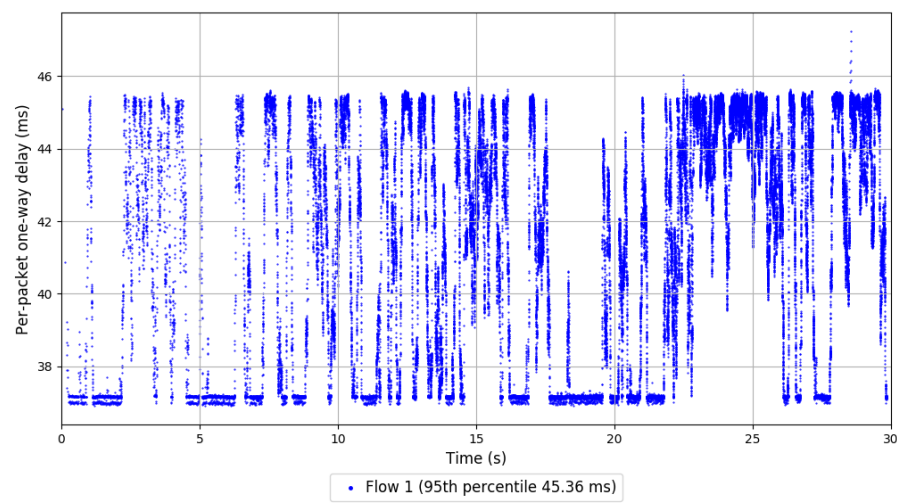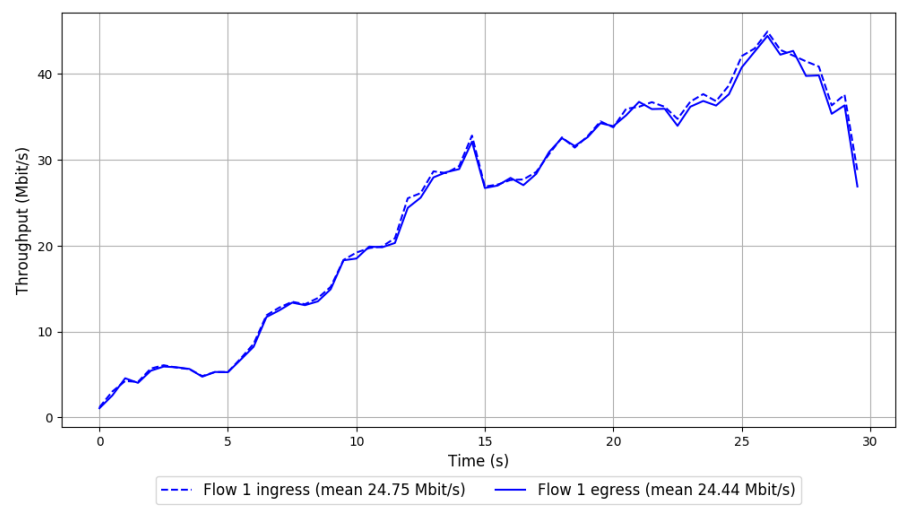Run 8: Report of Vivace-latency — Data Link

```
Run 9: Statistics of Vivace-latency

Start at: 2018-03-27 04:33:42
End at: 2018-03-27 04:34:12
Local clock offset: -0.319 ms
Remote clock offset: -1.636 ms


# Below is generated by plot.py at 2018-03-27 09:44:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 45.359 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 24.44 Mbit/s
95th percentile per-packet one-way delay: 45.359 ms
Loss rate: 1.48%
```

Run 9: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 24.75 Mbit/s)   Flow 1 egress (mean 24.44 Mbit/s)
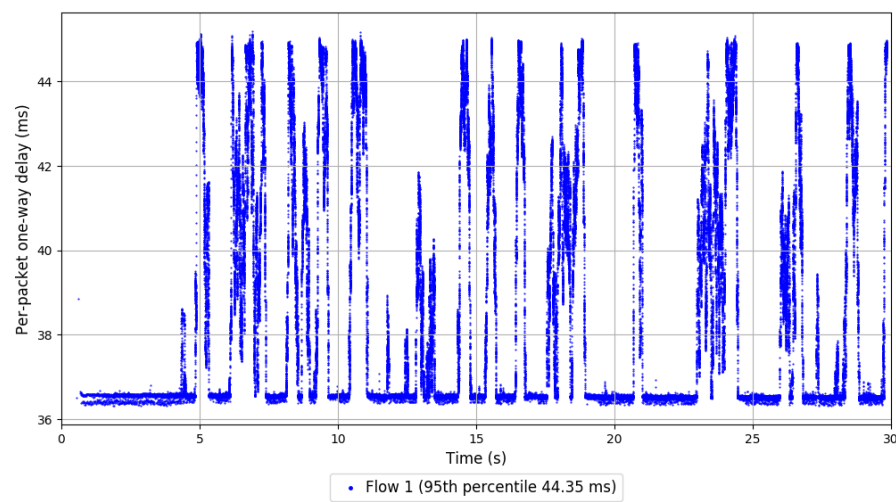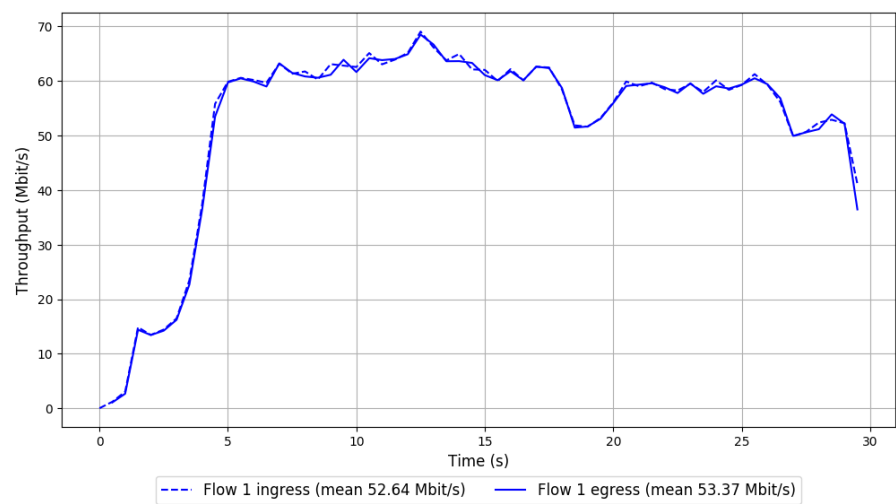

Flow 1 (95th percentile 45.36 ms)

```
Run 10: Statistics of Vivace-latency

Start at: 2018-03-27 05:01:33
End at: 2018-03-27 05:02:03
Local clock offset: 0.167 ms
Remote clock offset: -3.505 ms


# Below is generated by plot.py at 2018-03-27 09:45:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 44.347 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 44.347 ms
Loss rate: 0.57%
```

Run 10: Report of Vivace-latency — Data Link

```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-27 00:44:03
End at: 2018-03-27 00:44:33
Local clock offset: 4.62 ms
Remote clock offset: -4.343 ms


# Below is generated by plot.py at 2018-03-27 09:45:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.27 Mbit/s
95th percentile per-packet one-way delay: 59.866 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 82.27 Mbit/s
95th percentile per-packet one-way delay: 59.866 ms
Loss rate: 1.18%
```
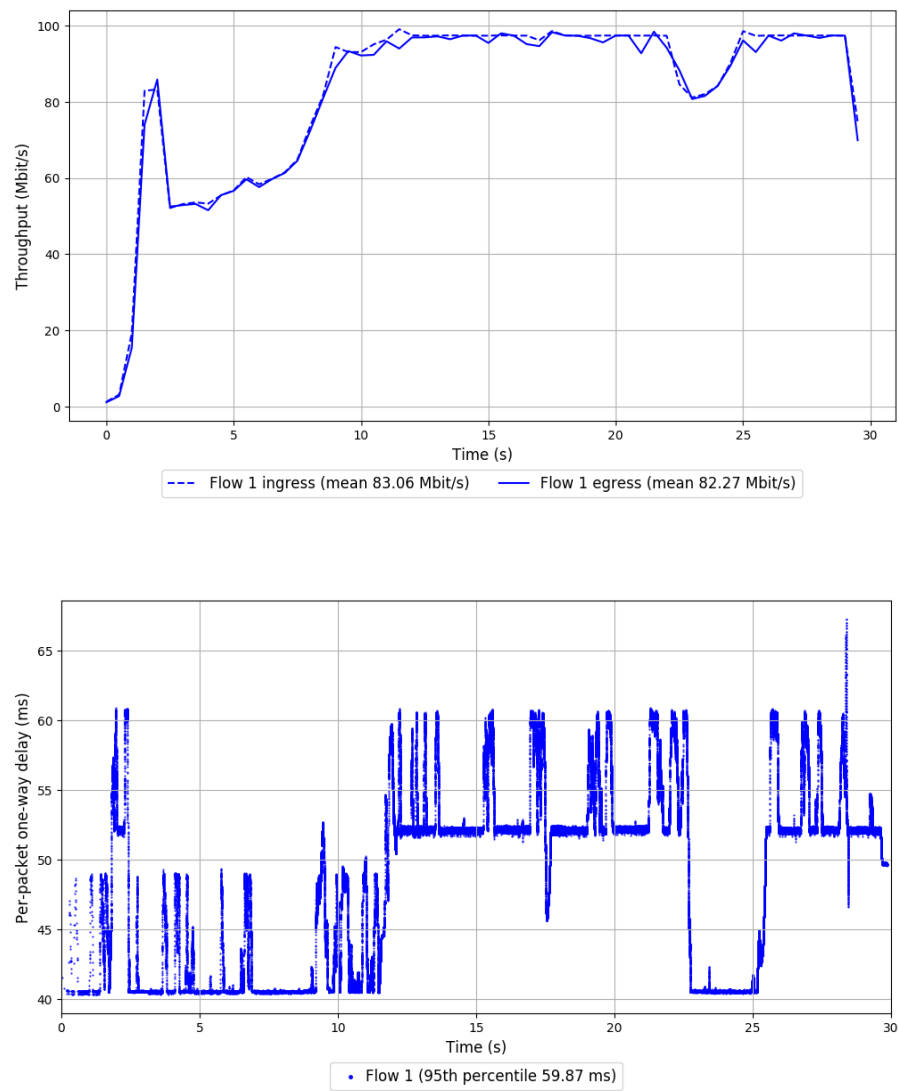
Run 1: Report of Vivace-loss — Data Link

```
Run 2: Statistics of Vivace-loss

Start at: 2018-03-27 01:09:37
End at: 2018-03-27 01:10:07
Local clock offset: 6.977 ms
Remote clock offset: -1.782 ms


# Below is generated by plot.py at 2018-03-27 09:45:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.61 Mbit/s
95th percentile per-packet one-way delay: 57.999 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 83.61 Mbit/s
95th percentile per-packet one-way delay: 57.999 ms
Loss rate: 1.41%
```
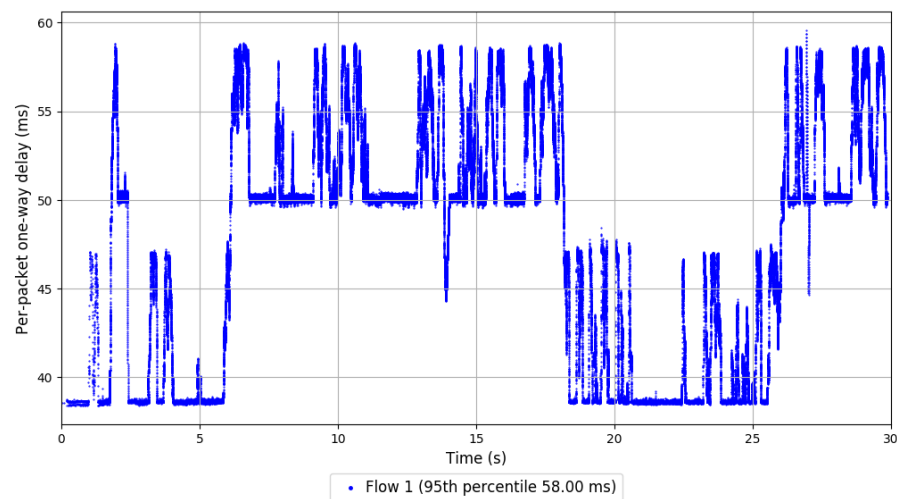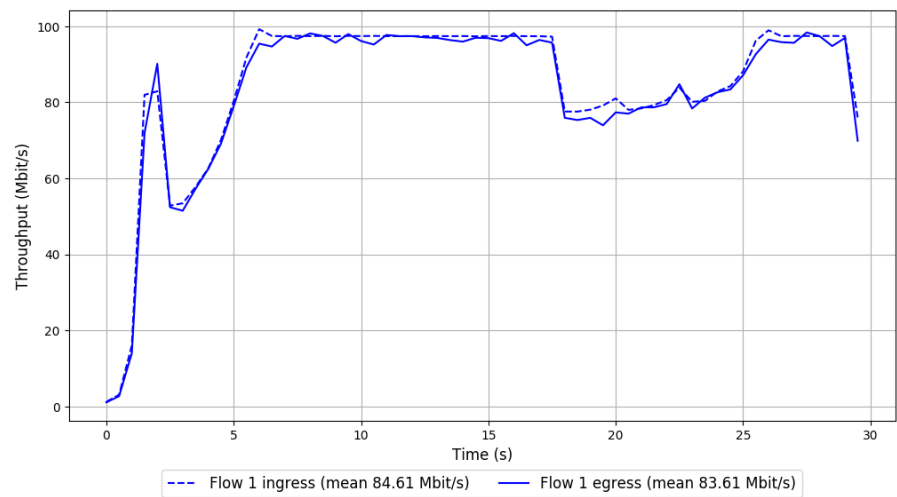
Run 2: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 84.61 Mbit/s) --- Flow 1 egress (mean 83.61 Mbit/s)

Flow 1 (95th percentile 58.00 ms)

```
Run 3: Statistics of Vivace-loss

Start at: 2018-03-27 01:35:54
End at: 2018-03-27 01:36:24
Local clock offset: 0.985 ms
Remote clock offset: -3.8 ms


# Below is generated by plot.py at 2018-03-27 09:45:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 60.085 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 60.085 ms
Loss rate: 0.99%
```
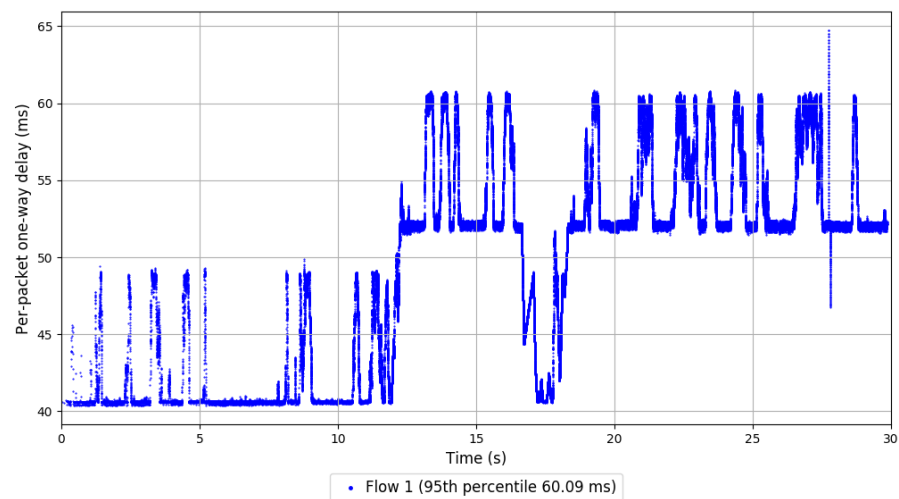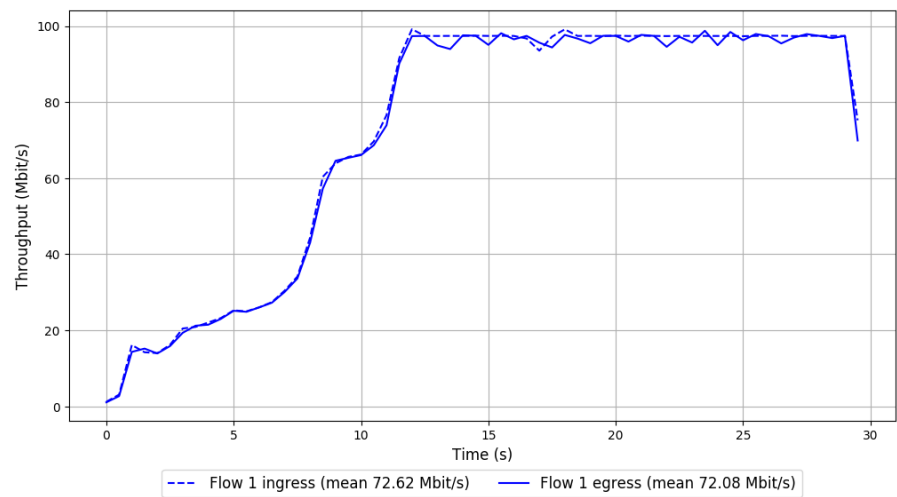
Run 3: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 72.62 Mbit/s)   Flow 1 egress (mean 72.08 Mbit/s)
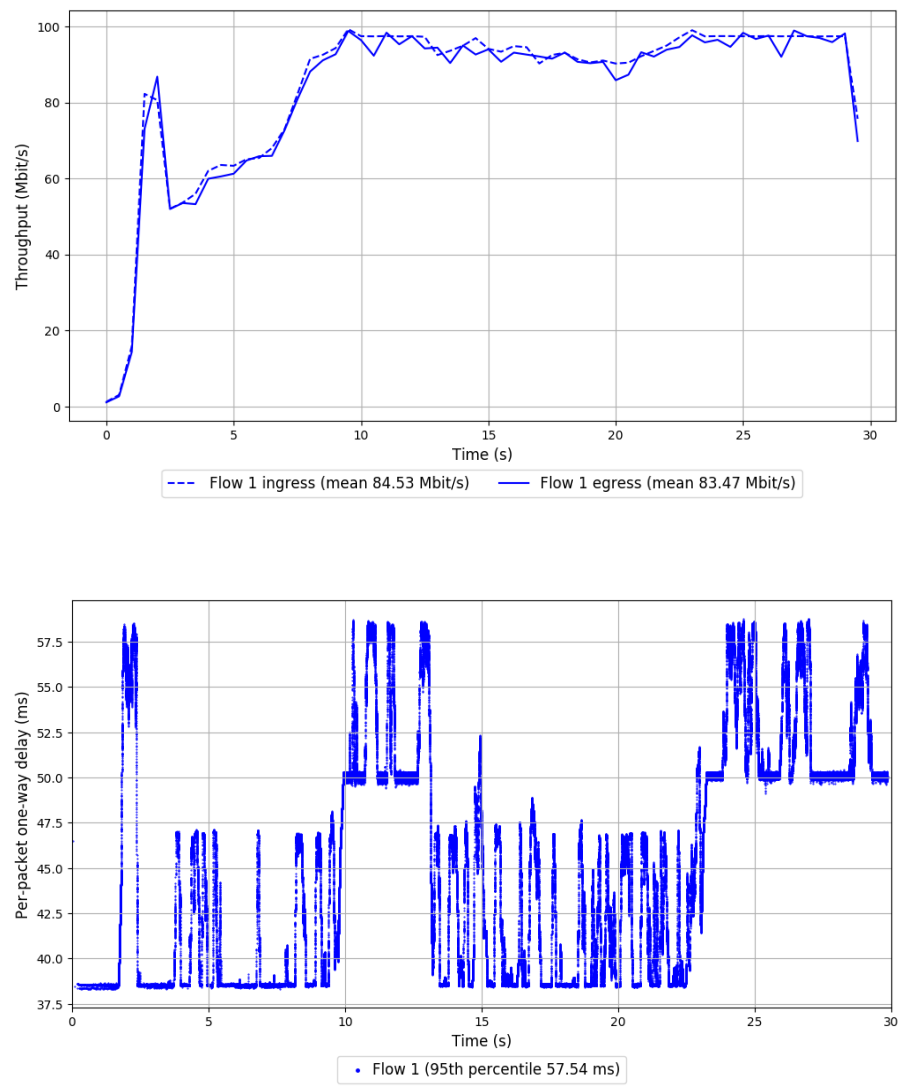

Flow 1 (95th percentile 60.09 ms)

```
Run 4: Statistics of Vivace-loss

Start at: 2018-03-27 02:01:53
End at: 2018-03-27 02:02:23
Local clock offset: -0.207 ms
Remote clock offset: -1.923 ms


# Below is generated by plot.py at 2018-03-27 09:45:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.47 Mbit/s
95th percentile per-packet one-way delay: 57.541 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 83.47 Mbit/s
95th percentile per-packet one-way delay: 57.541 ms
Loss rate: 1.53%
```

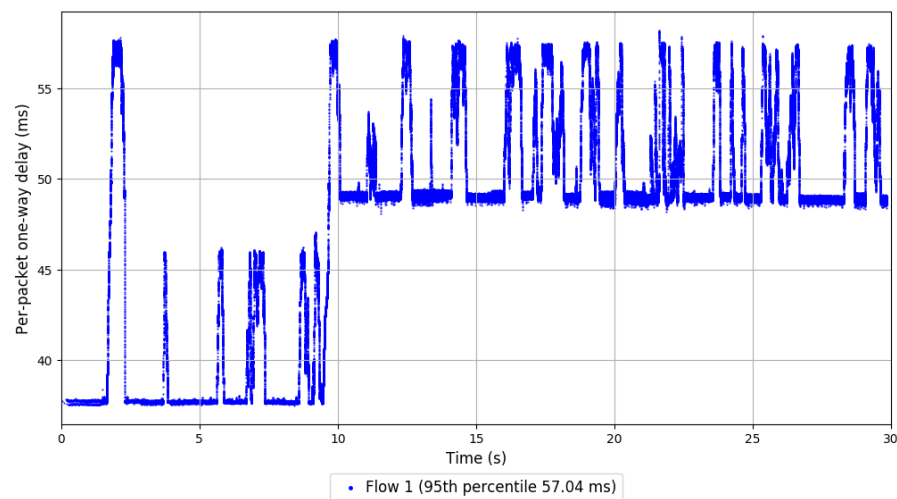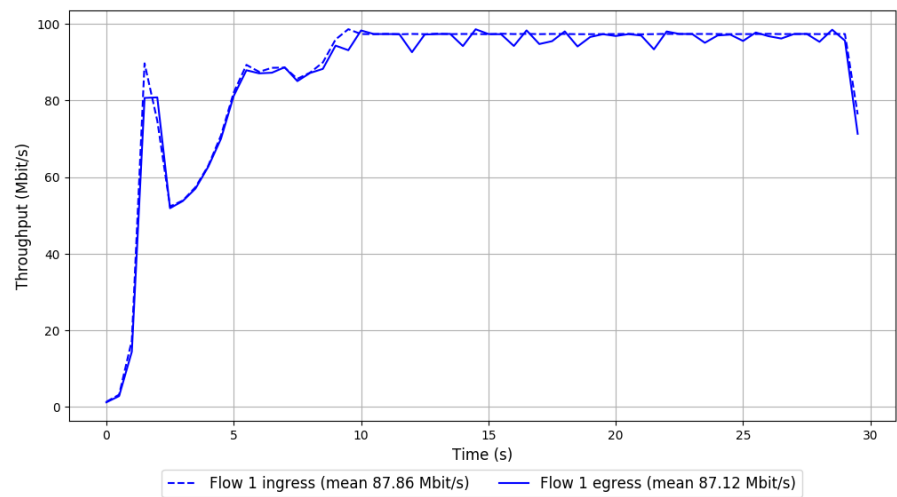## Run 4: Report of Vivace-loss — Data Link

```
Run 5: Statistics of Vivace-loss

Start at: 2018-03-27 02:28:32
End at: 2018-03-27 02:29:02
Local clock offset: -0.075 ms
Remote clock offset: -1.635 ms


# Below is generated by plot.py at 2018-03-27 09:46:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 57.038 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 57.038 ms
Loss rate: 1.06%
```

Run 5: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 87.86 Mbit/s)   Flow 1 egress (mean 87.12 Mbit/s)

Flow 1 (95th percentile 57.04 ms)

```
Run 6: Statistics of Vivace-loss

Start at: 2018-03-27 02:55:17
End at: 2018-03-27 02:55:47
Local clock offset: 6.919 ms
Remote clock offset: -2.307 ms


# Below is generated by plot.py at 2018-03-27 09:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 56.836 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 56.836 ms
Loss rate: 1.02%
```
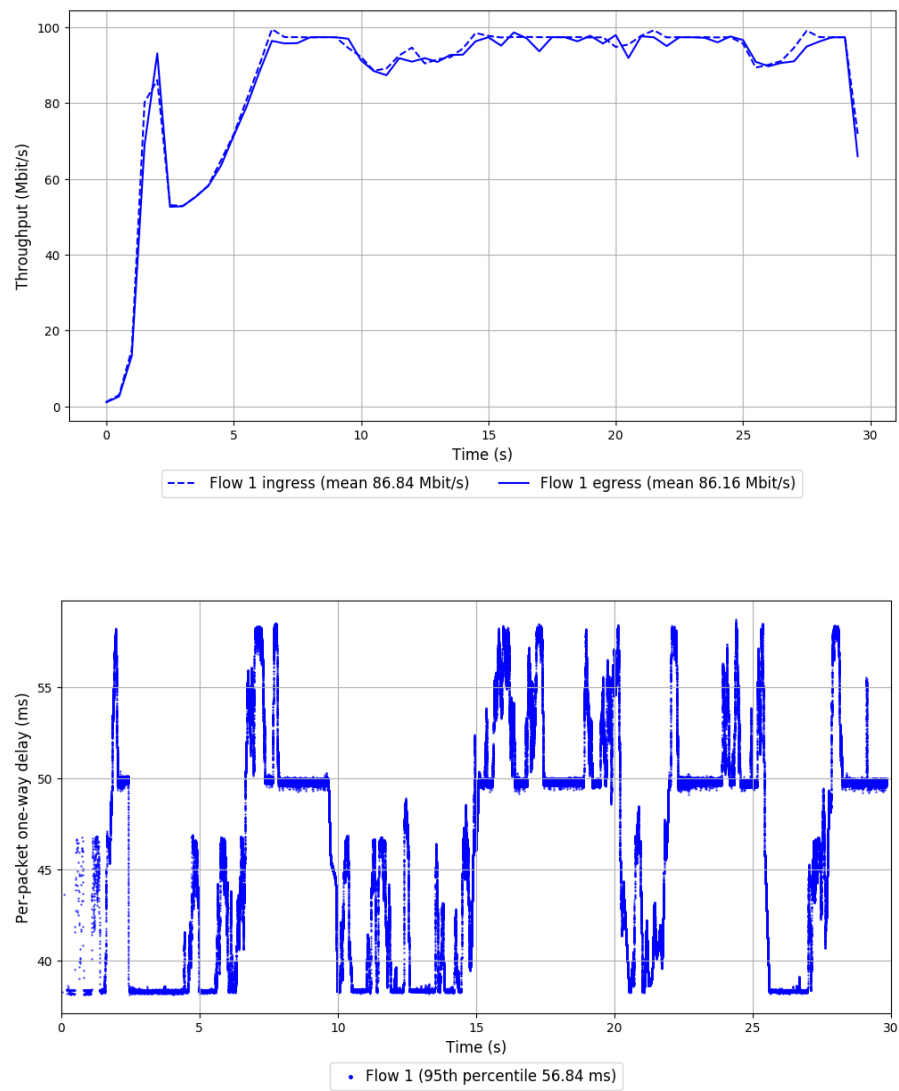
Run 6: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 86.84 Mbit/s) — — — Flow 1 egress (mean 86.16 Mbit/s)

Flow 1 (95th percentile 56.84 ms)

315

```
Run 7: Statistics of Vivace-loss

Start at: 2018-03-27 03:21:24
End at: 2018-03-27 03:21:54
Local clock offset: 3.69 ms
Remote clock offset: -1.711 ms


# Below is generated by plot.py at 2018-03-27 09:46:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 49.689 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 58.33 Mbit/s
95th percentile per-packet one-way delay: 49.689 ms
Loss rate: 2.11%
```
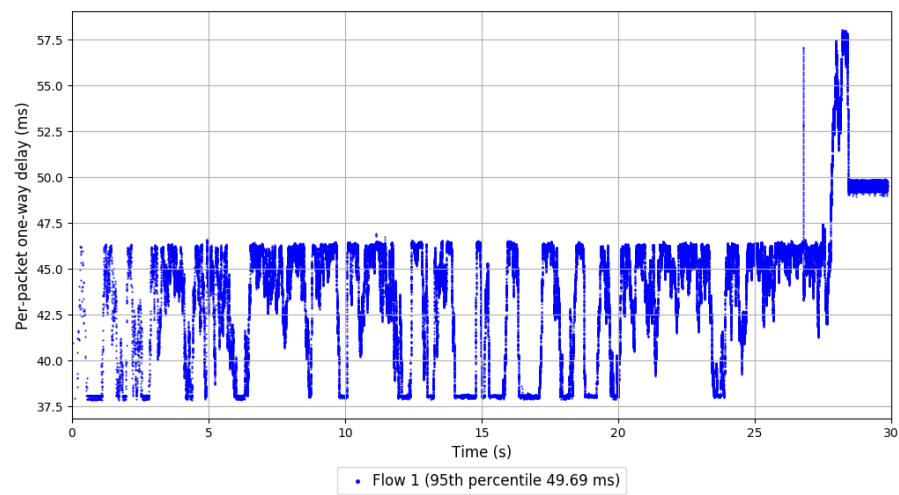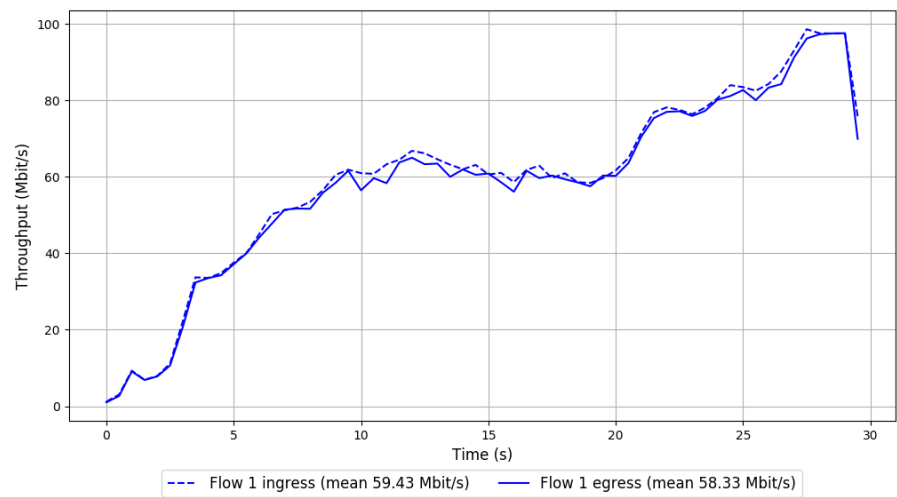
Run 7: Report of Vivace-loss — Data Link

```
Run 8: Statistics of Vivace-loss

Start at: 2018-03-27 03:49:33
End at: 2018-03-27 03:50:03
Local clock offset: 0.707 ms
Remote clock offset: -1.667 ms


# Below is generated by plot.py at 2018-03-27 09:46:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.61 Mbit/s
95th percentile per-packet one-way delay: 50.590 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 62.61 Mbit/s
95th percentile per-packet one-way delay: 50.590 ms
Loss rate: 1.80%
```
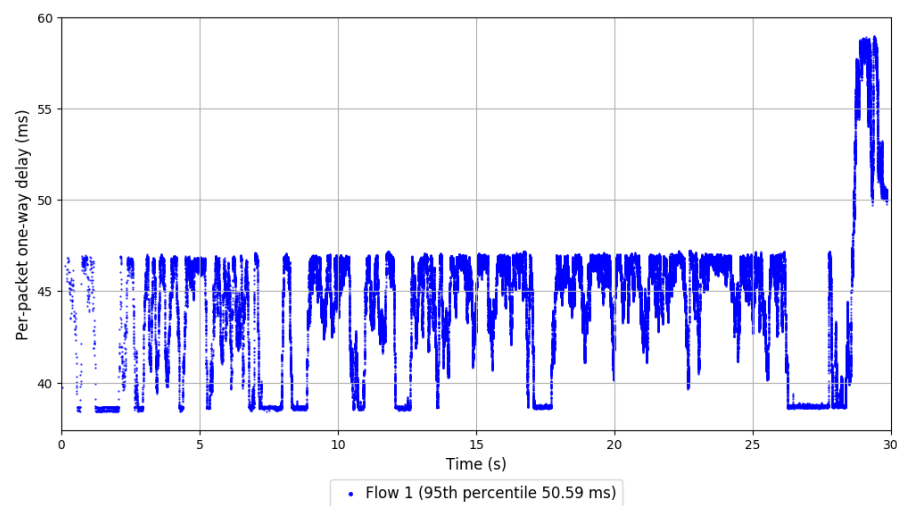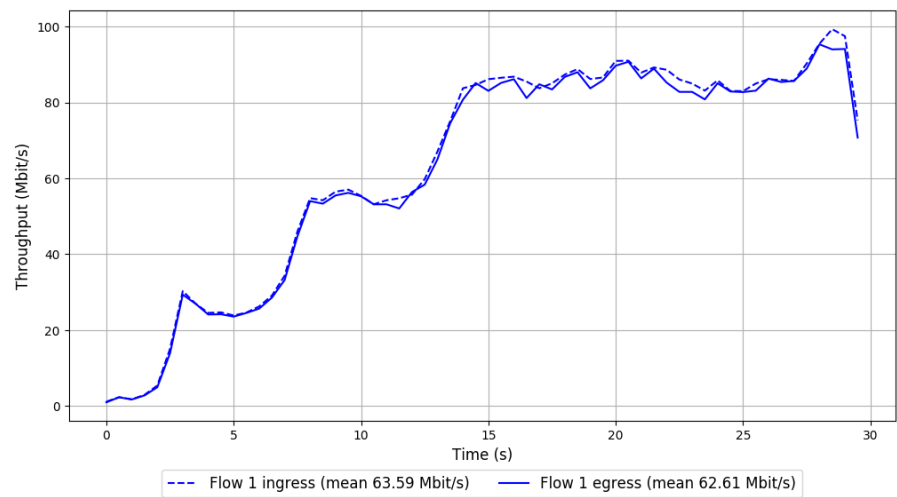
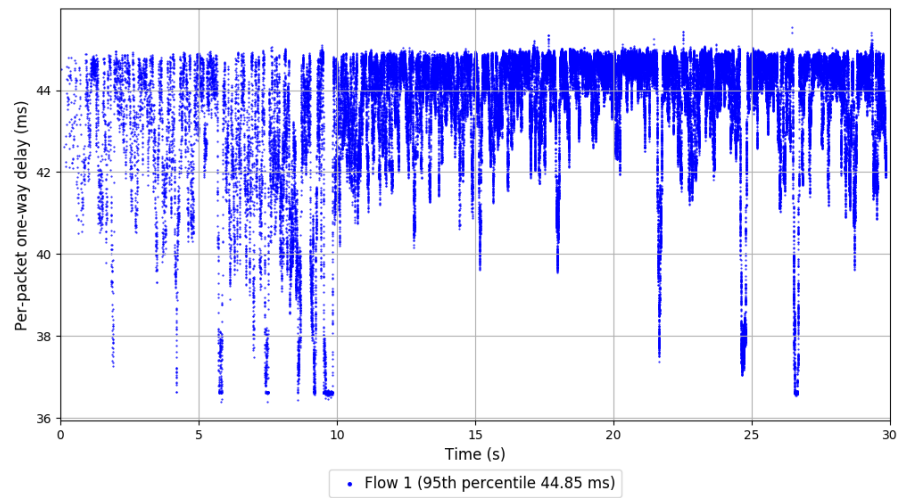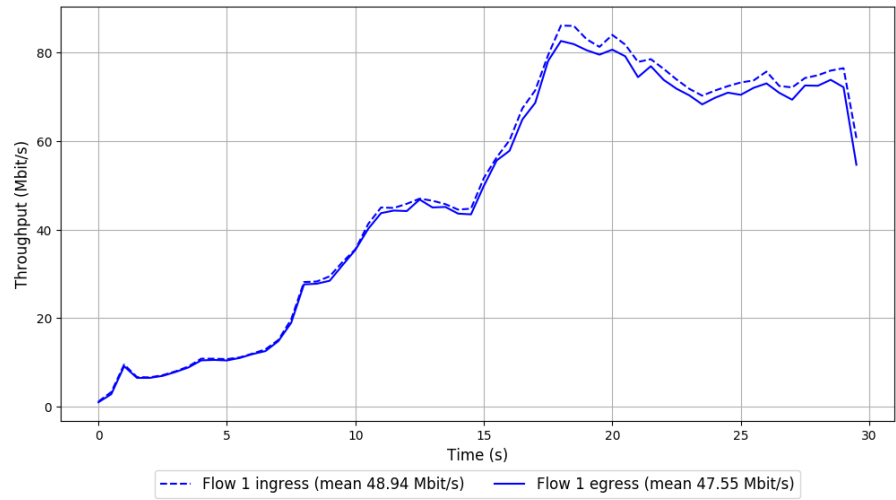Run 8: Report of Vivace-loss — Data Link

319

```
Run 9: Statistics of Vivace-loss

Start at: 2018-03-27 04:19:32
End at: 2018-03-27 04:20:02
Local clock offset: -0.342 ms
Remote clock offset: -1.059 ms


# Below is generated by plot.py at 2018-03-27 09:46:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 44.847 ms
Loss rate: 3.07%
-- Flow 1:
Average throughput: 47.55 Mbit/s
95th percentile per-packet one-way delay: 44.847 ms
Loss rate: 3.07%
```

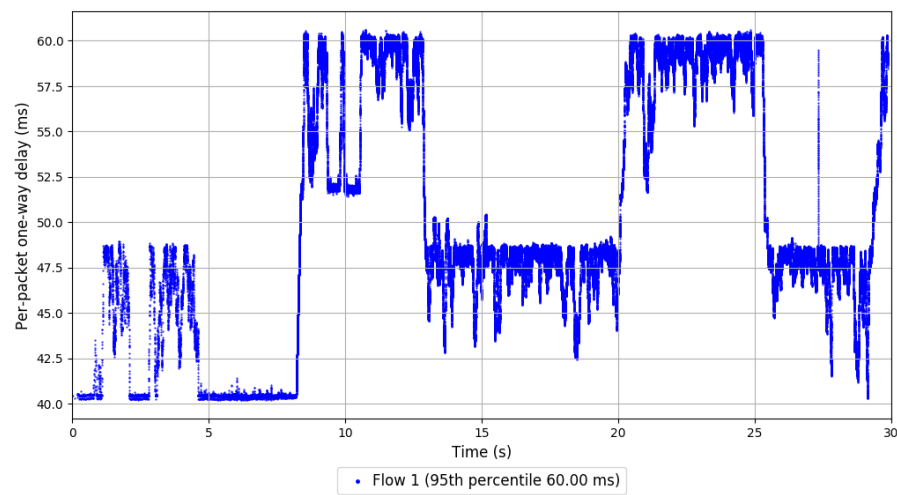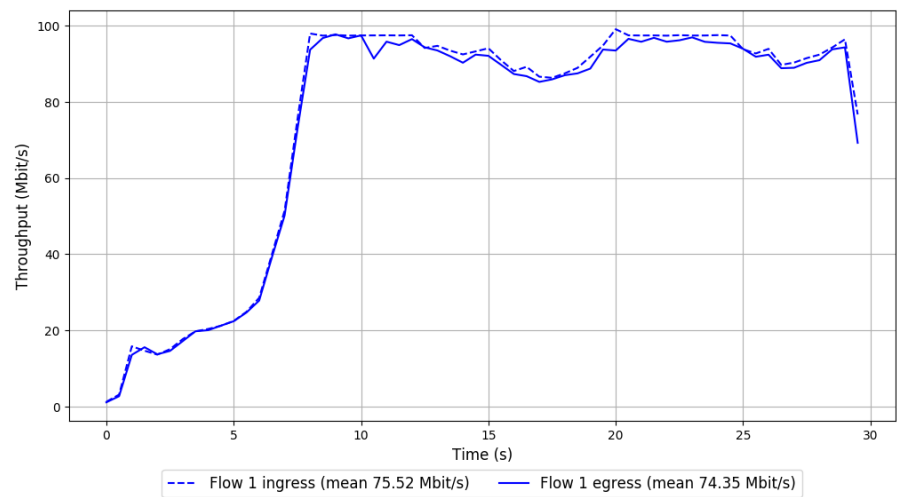Run 9: Report of Vivace-loss — Data Link

```
Run 10: Statistics of Vivace-loss

Start at: 2018-03-27 04:50:07
End at: 2018-03-27 04:50:37
Local clock offset: -0.077 ms
Remote clock offset: -4.514 ms


# Below is generated by plot.py at 2018-03-27 09:46:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.35 Mbit/s
95th percentile per-packet one-way delay: 59.997 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 74.35 Mbit/s
95th percentile per-packet one-way delay: 59.997 ms
Loss rate: 1.78%
```

Run 10: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 75.52 Mbit/s) Flow 1 egress (mean 74.35 Mbit/s)

Flow 1 (95th percentile 60.00 ms)

```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-27 00:36:50
End at: 2018-03-27 00:37:20
Local clock offset: 4.268 ms
Remote clock offset: -4.3 ms


# Below is generated by plot.py at 2018-03-27 09:47:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.23 Mbit/s
95th percentile per-packet one-way delay: 51.166 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 77.23 Mbit/s
95th percentile per-packet one-way delay: 51.166 ms
Loss rate: 0.81%
```
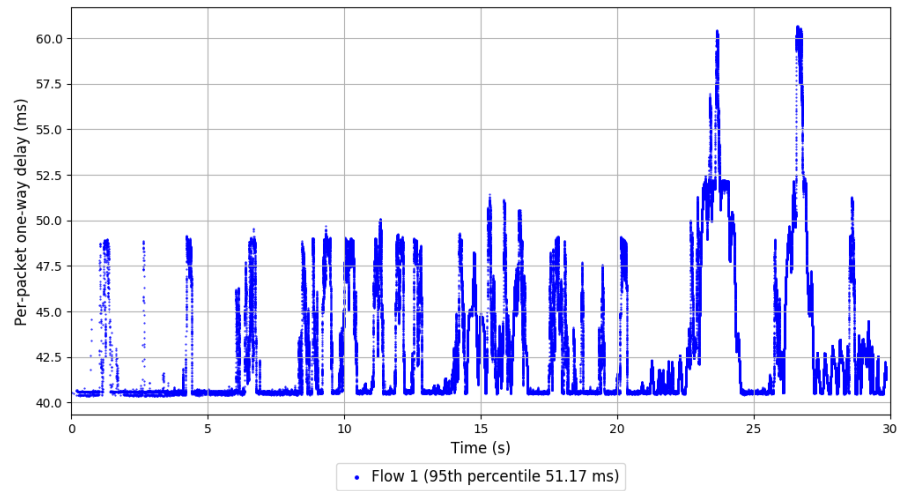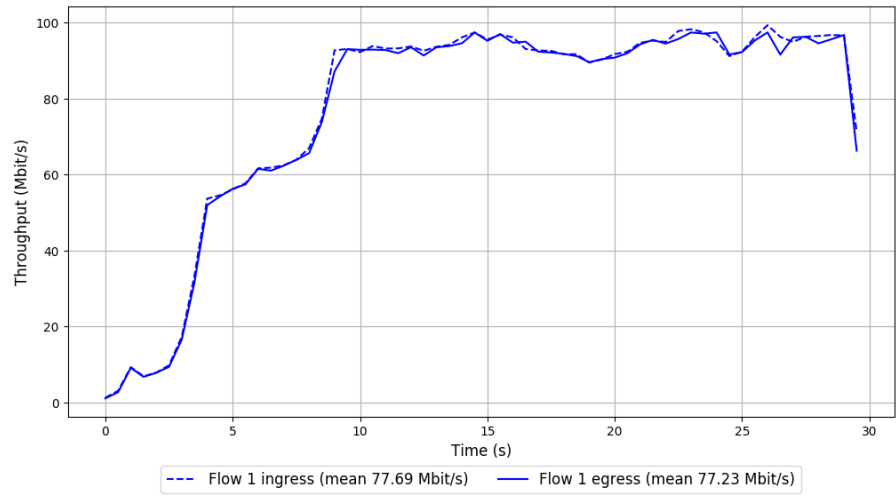
Run 1: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 77.69 Mbit/s)   Flow 1 egress (mean 77.23 Mbit/s)
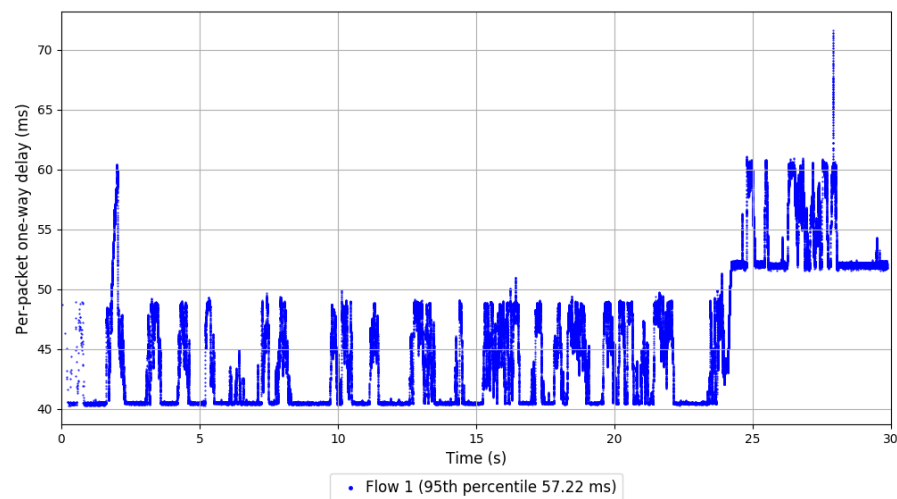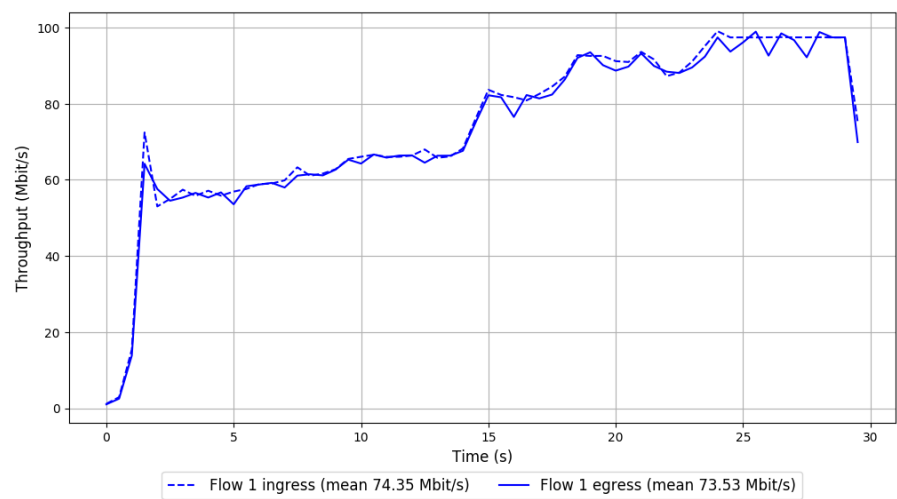

Flow 1 (95th percentile 51.17 ms)

```
Run 2: Statistics of Vivace-LTE

Start at: 2018-03-27 01:02:10
End at: 2018-03-27 01:02:40
Local clock offset: 6.488 ms
Remote clock offset: -3.855 ms


# Below is generated by plot.py at 2018-03-27 09:47:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.53 Mbit/s
95th percentile per-packet one-way delay: 57.215 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 73.53 Mbit/s
95th percentile per-packet one-way delay: 57.215 ms
Loss rate: 1.38%
```

Run 2: Report of Vivace-LTE — Data Link

```
Run 3: Statistics of Vivace-LTE

Start at: 2018-03-27 01:28:24
End at: 2018-03-27 01:28:54
Local clock offset: 2.959 ms
Remote clock offset: -1.725 ms


# Below is generated by plot.py at 2018-03-27 09:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.06 Mbit/s
95th percentile per-packet one-way delay: 55.657 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 78.06 Mbit/s
95th percentile per-packet one-way delay: 55.657 ms
Loss rate: 1.26%
```
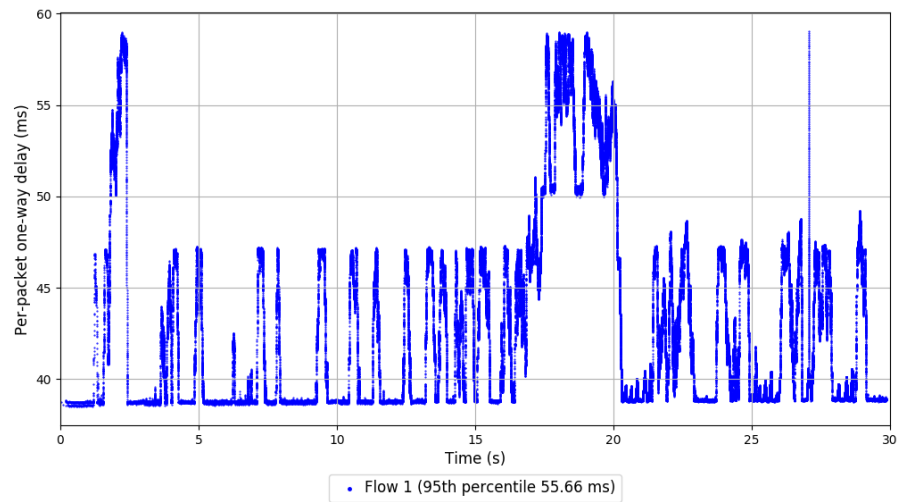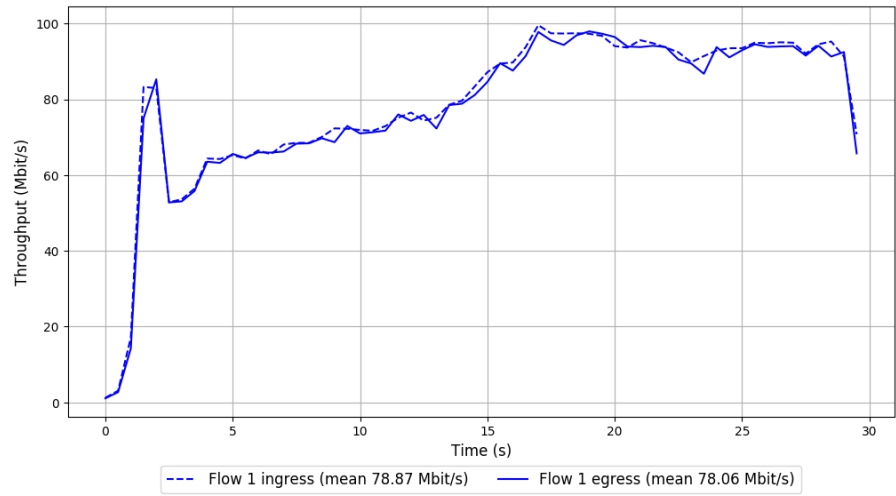
Run 3: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 78.87 Mbit/s)   Flow 1 egress (mean 78.06 Mbit/s)
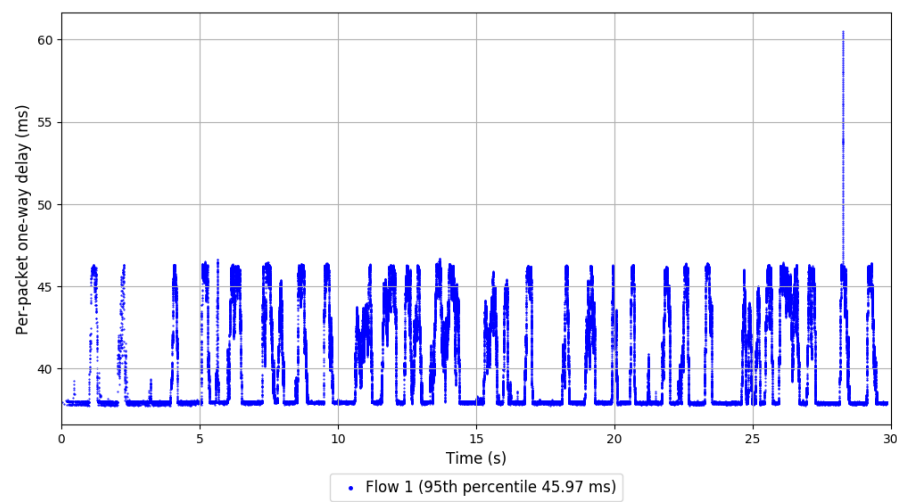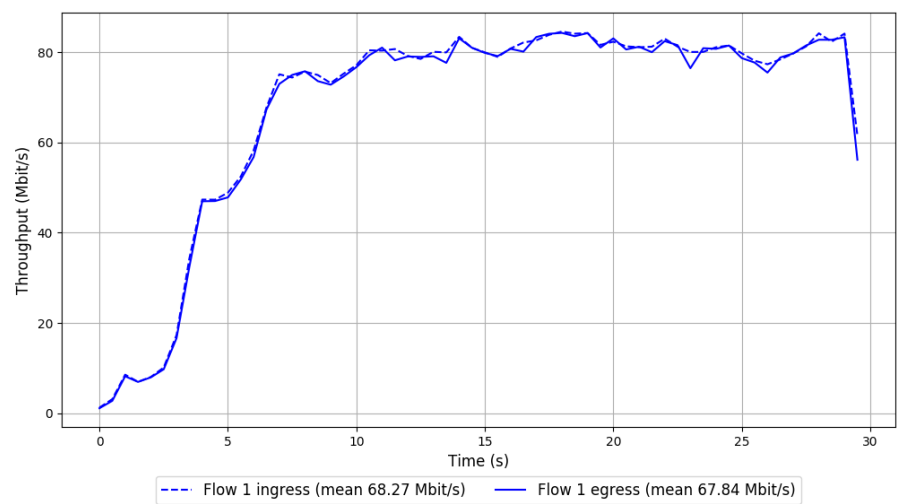

Flow 1 (95th percentile 55.66 ms)

```
Run 4: Statistics of Vivace-LTE

Start at: 2018-03-27 01:54:30
End at: 2018-03-27 01:55:00
Local clock offset: -0.922 ms
Remote clock offset: -1.378 ms


# Below is generated by plot.py at 2018-03-27 09:47:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.84 Mbit/s
95th percentile per-packet one-way delay: 45.966 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 67.84 Mbit/s
95th percentile per-packet one-way delay: 45.966 ms
Loss rate: 0.87%
```

Run 4: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 68.27 Mbit/s)   Flow 1 egress (mean 67.84 Mbit/s)
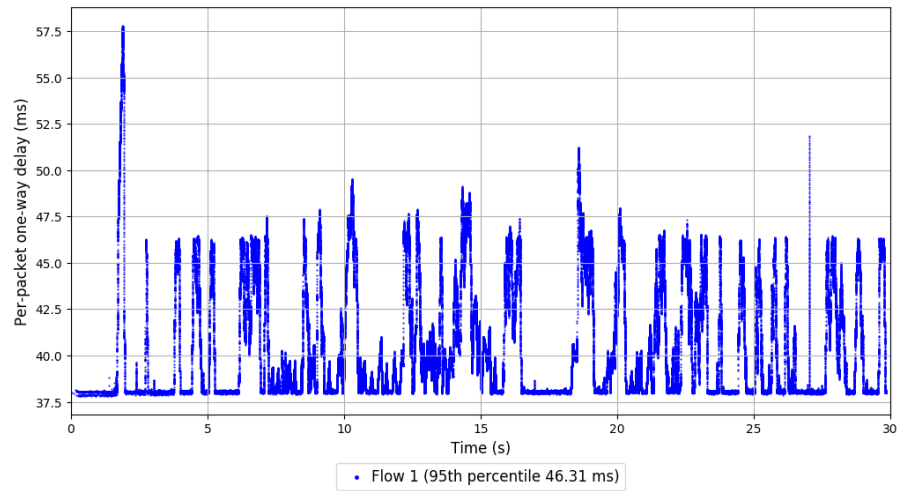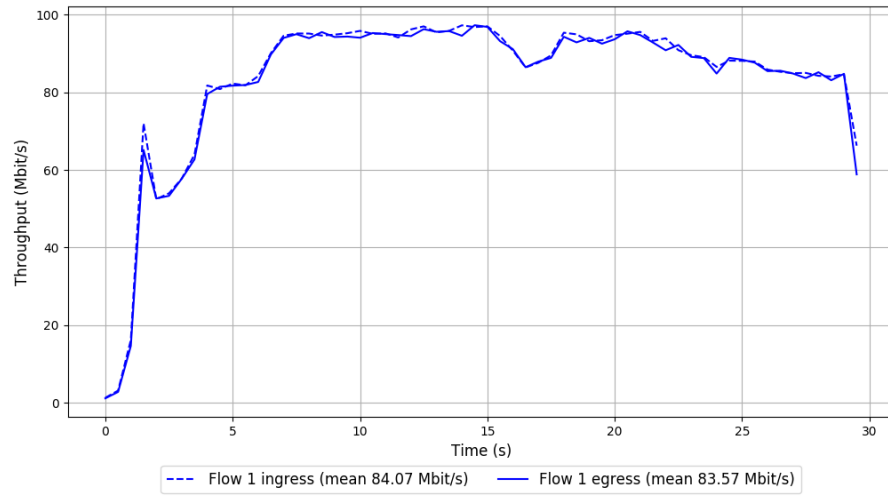

Flow 1 (95th percentile 45.97 ms)

```
Run 5: Statistics of Vivace-LTE

Start at: 2018-03-27 02:21:15
End at: 2018-03-27 02:21:45
Local clock offset: -0.004 ms
Remote clock offset: -1.541 ms

# Below is generated by plot.py at 2018-03-27 09:47:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.57 Mbit/s
95th percentile per-packet one-way delay: 46.314 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 83.57 Mbit/s
95th percentile per-packet one-way delay: 46.314 ms
Loss rate: 0.82%
```

Run 5: Report of Vivace-LTE — Data Link

```
Run 6: Statistics of Vivace-LTE

Start at: 2018-03-27 02:47:08
End at: 2018-03-27 02:47:38
Local clock offset: 5.995 ms
Remote clock offset: -2.241 ms


# Below is generated by plot.py at 2018-03-27 09:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.14 Mbit/s
95th percentile per-packet one-way delay: 54.238 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 80.14 Mbit/s
95th percentile per-packet one-way delay: 54.238 ms
Loss rate: 1.55%
```
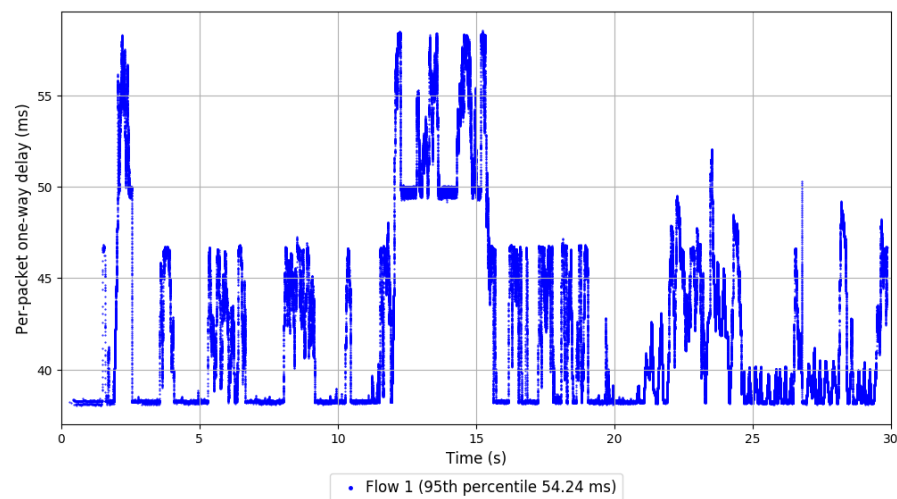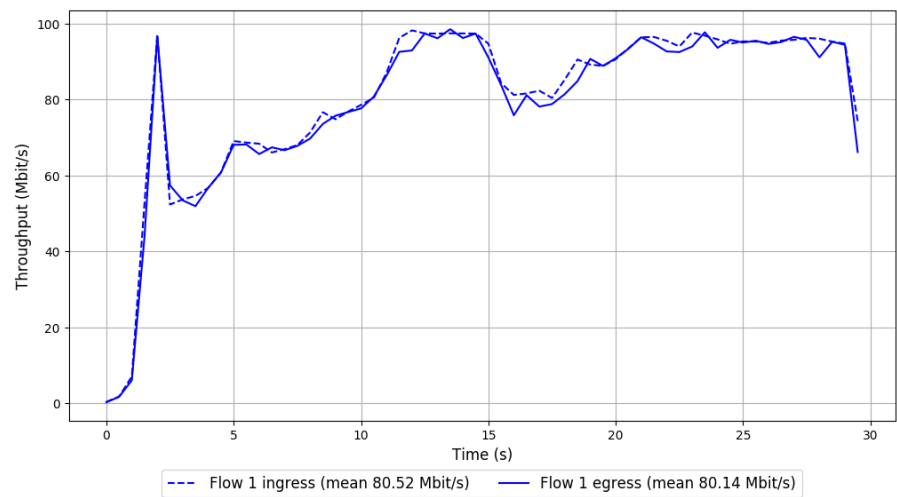
Run 6: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 80.52 Mbit/s)   Flow 1 egress (mean 80.14 Mbit/s)

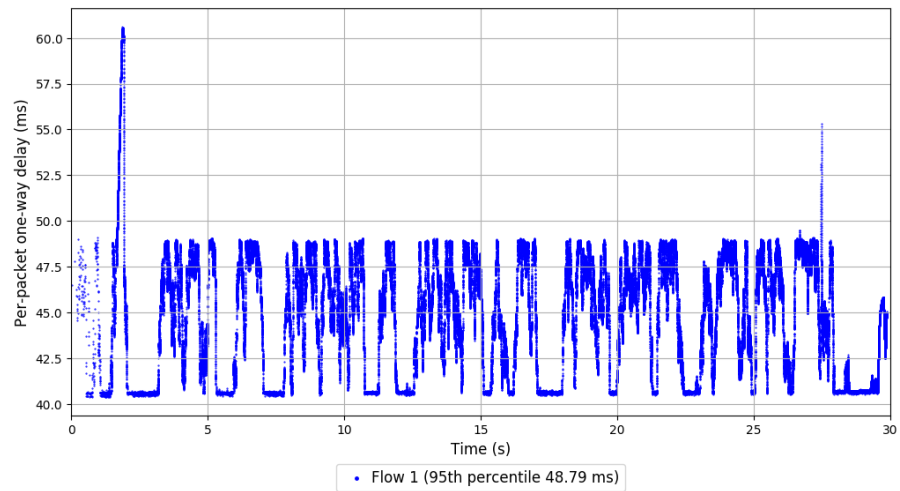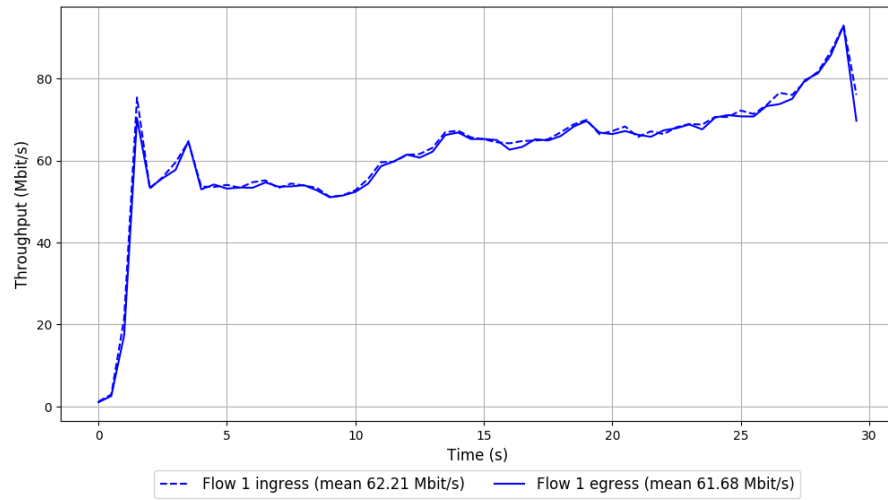

• Flow 1 (95th percentile 54.24 ms)

```
Run 7: Statistics of Vivace-LTE

Start at: 2018-03-27 03:13:37
End at: 2018-03-27 03:14:08
Local clock offset: 4.532 ms
Remote clock offset: -4.172 ms


# Below is generated by plot.py at 2018-03-27 09:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.68 Mbit/s
95th percentile per-packet one-way delay: 48.792 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 61.68 Mbit/s
95th percentile per-packet one-way delay: 48.792 ms
Loss rate: 1.10%
```

Run 7: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 62.21 Mbit/s)   Flow 1 egress (mean 61.68 Mbit/s)
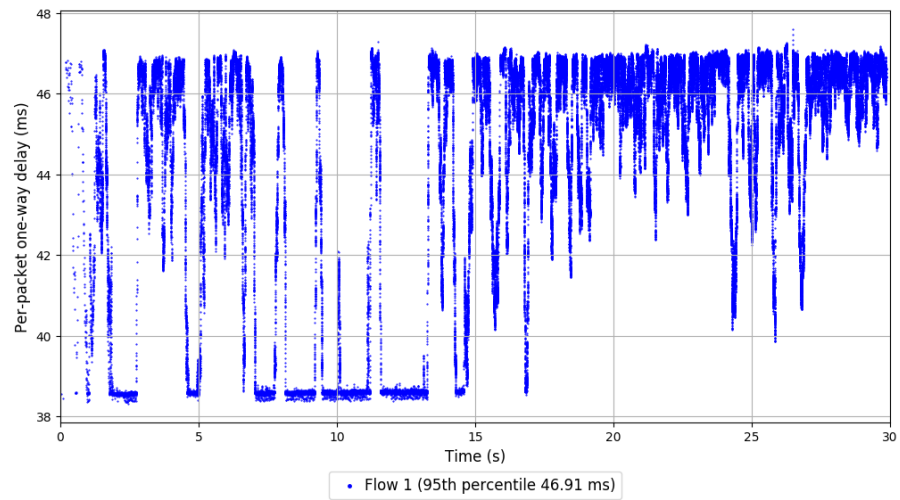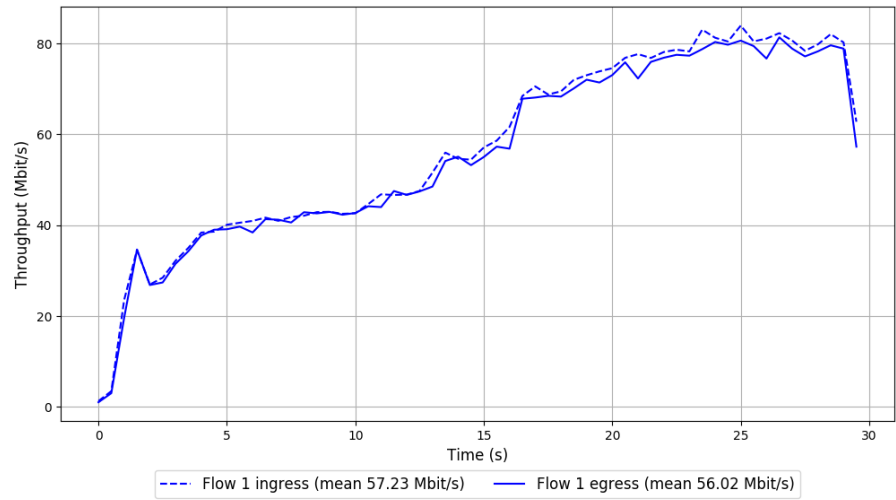

Flow 1 (95th percentile 48.79 ms)

```
Run 8: Statistics of Vivace-LTE

Start at: 2018-03-27 03:41:12
End at: 2018-03-27 03:41:42
Local clock offset: 2.121 ms
Remote clock offset: -2.061 ms


# Below is generated by plot.py at 2018-03-27 09:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.02 Mbit/s
95th percentile per-packet one-way delay: 46.911 ms
Loss rate: 2.35%
-- Flow 1:
Average throughput: 56.02 Mbit/s
95th percentile per-packet one-way delay: 46.911 ms
Loss rate: 2.35%
```

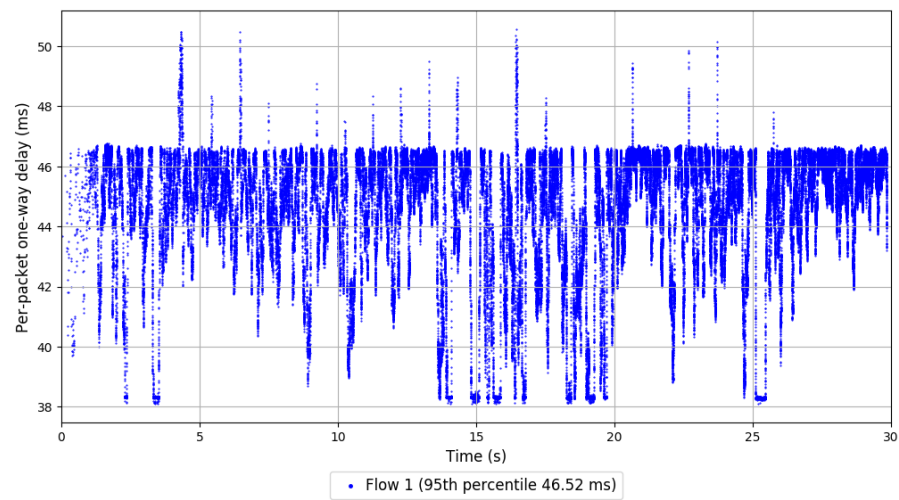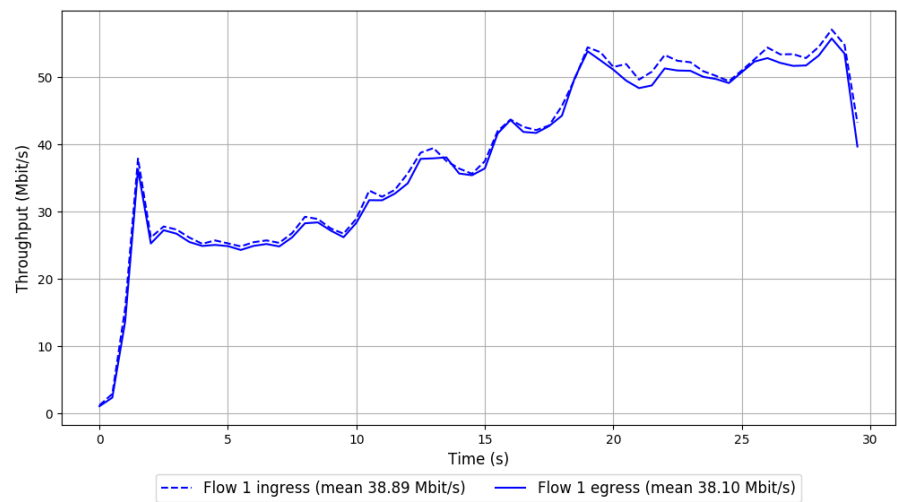Run 8: Report of Vivace-LTE — Data Link

```
Run 9: Statistics of Vivace-LTE

Start at: 2018-03-27 04:11:21
End at: 2018-03-27 04:11:51
Local clock offset: -0.74 ms
Remote clock offset: -1.445 ms


# Below is generated by plot.py at 2018-03-27 09:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.10 Mbit/s
95th percentile per-packet one-way delay: 46.515 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 38.10 Mbit/s
95th percentile per-packet one-way delay: 46.515 ms
Loss rate: 2.28%
```

Run 9: Report of Vivace-LTE — Data Link

```
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-27 04:42:00
End at: 2018-03-27 04:42:30
Local clock offset: -0.378 ms
Remote clock offset: -1.716 ms


# Below is generated by plot.py at 2018-03-27 09:47:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.75 Mbit/s
95th percentile per-packet one-way delay: 46.697 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 38.75 Mbit/s
95th percentile per-packet one-way delay: 46.697 ms
Loss rate: 1.95%
```

Run 10: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 39.42 Mbit/s)   Flow 1 egress (mean 38.75 Mbit/s)

• Flow 1 (95th percentile 46.70 ms)