Pantheon Report

Generated at 2018-02-04 12:12:02 (UTC).

Data path: China Ethernet (*remote*) →AWS Korea Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

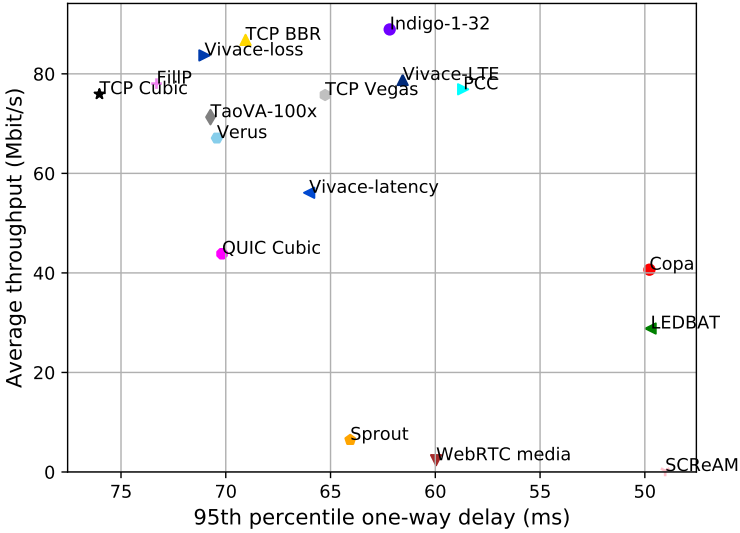Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

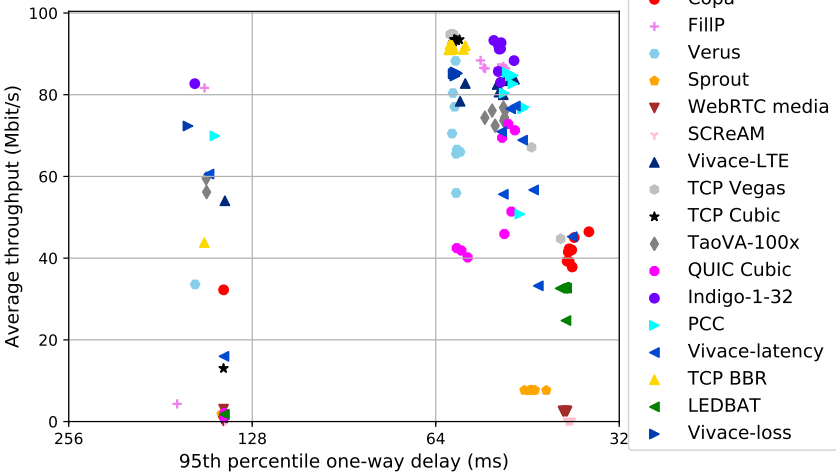NTP offsets were measured against `ntp.nict.jp` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
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 @ a488197ddd041ace68a42849b2540ad834825f42
```

test from China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)

test from China Ethernet to AWS Korea Ethernet, 10 runs of 30s each per scheme

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	86.83	69.06	0.70
TCP Cubic	10	75.93	76.03	0.91
LEDBAT	10	28.83	49.73	0.66
PCC	9	76.89	58.67	0.67
QUIC Cubic	10	43.84	70.18	1.76
SCReAM	10	0.20	49.03	0.54
WebRTC media	10	2.36	59.96	3.57
Sprout	10	6.46	64.06	0.68
TaoVA-100x	10	71.30	70.73	2.06
TCP Vegas	9	75.74	65.26	0.47
Verus	9	67.10	70.43	0.68
Copa	9	40.65	49.78	1.76
FillP	10	78.03	73.31	5.71
Indigo-1-32	9	88.92	62.18	0.71
Vivace-latency	10	56.10	66.02	1.02
Vivace-loss	9	83.70	71.02	0.70
Vivace-LTE	9	78.78	61.56	0.80

```
Run 1: Statistics of TCP BBR

Start at: 2018-02-04 04:28:58
End at: 2018-02-04 04:29:28
Local clock offset: -0.239 ms
Remote clock offset: 2.438 ms

# Below is generated by plot.py at 2018-02-04 11:52:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 60.292 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 60.292 ms
Loss rate: 0.45%
```
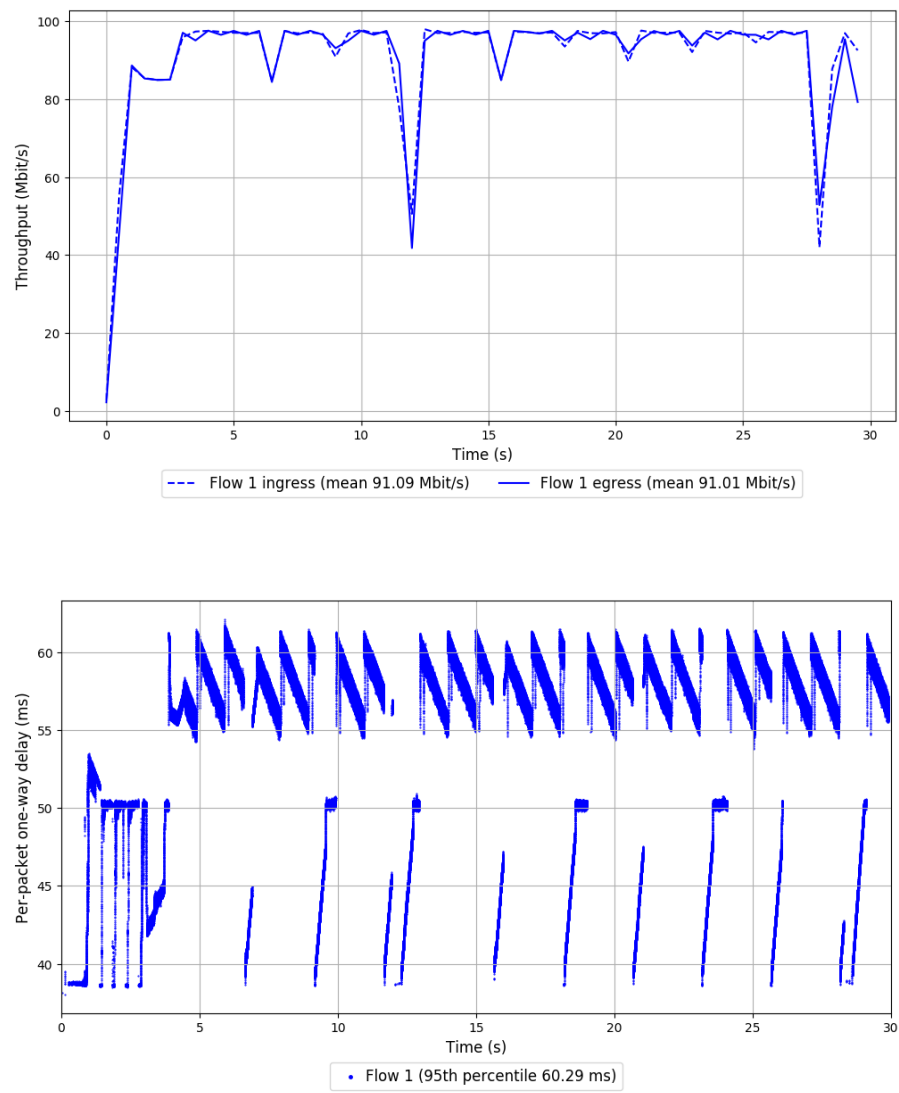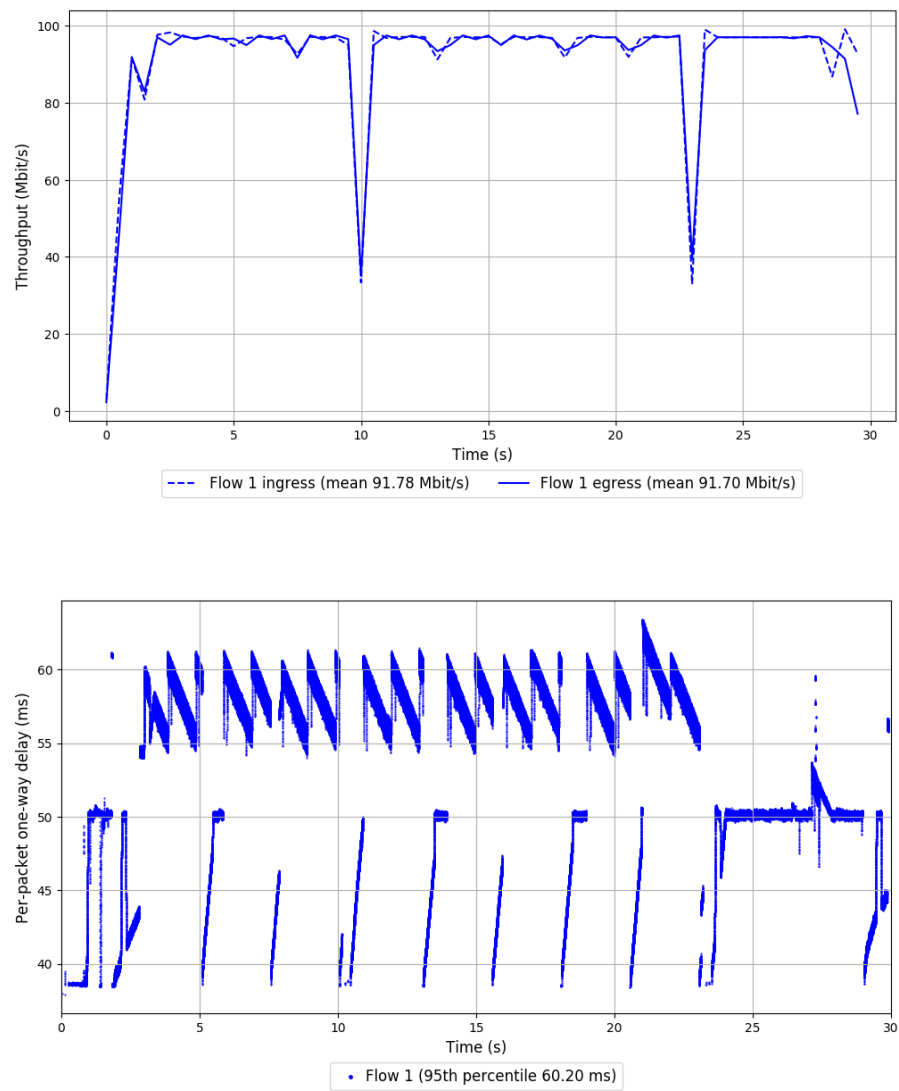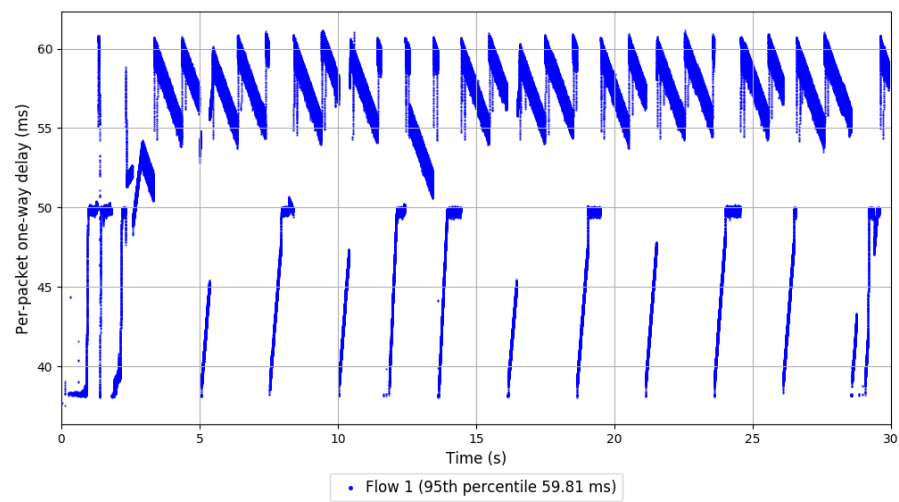
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 91.09 Mbit/s)   Flow 1 egress (mean 91.01 Mbit/s)

Flow 1 (95th percentile 60.29 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2018-02-04 04:50:49
End at: 2018-02-04 04:51:19
Local clock offset: 0.23 ms
Remote clock offset: 3.321 ms


# Below is generated by plot.py at 2018-02-04 11:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 60.203 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 60.203 ms
Loss rate: 0.46%
```
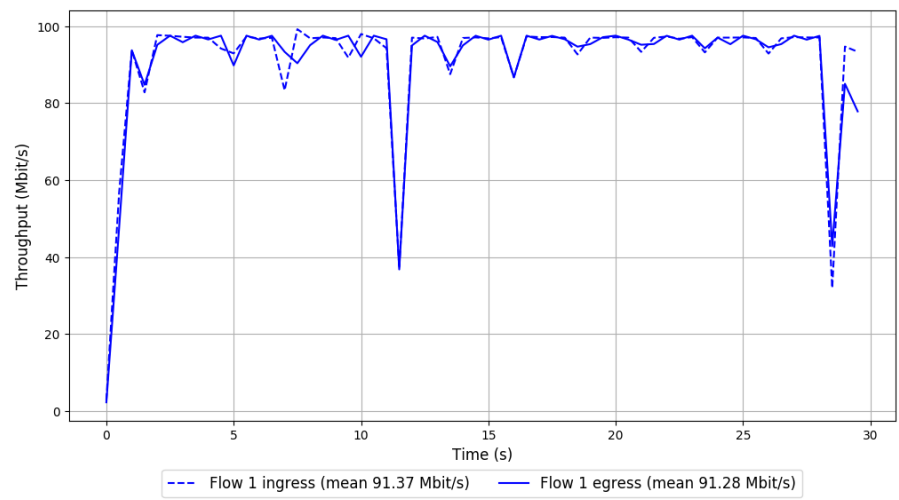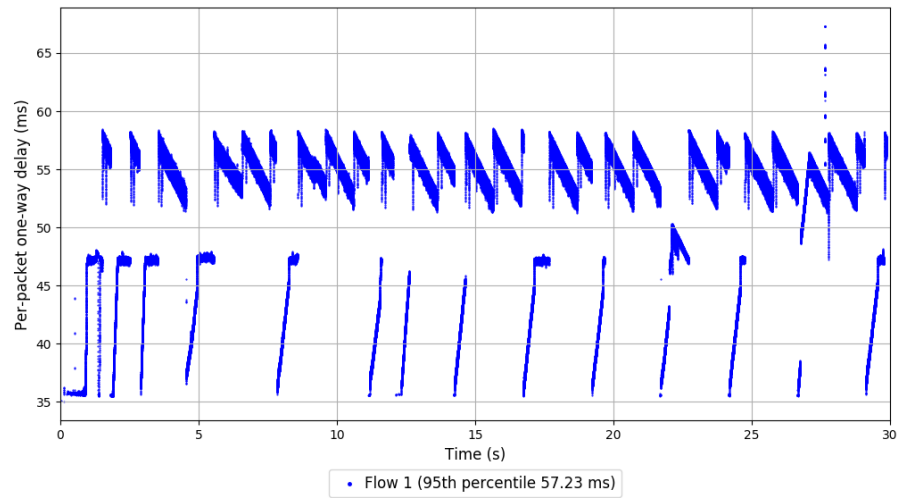
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2018-02-04 05:12:36
End at: 2018-02-04 05:13:06
Local clock offset: -0.033 ms
Remote clock offset: 4.195 ms


# Below is generated by plot.py at 2018-02-04 11:52:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 59.815 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 59.815 ms
Loss rate: 0.46%
```
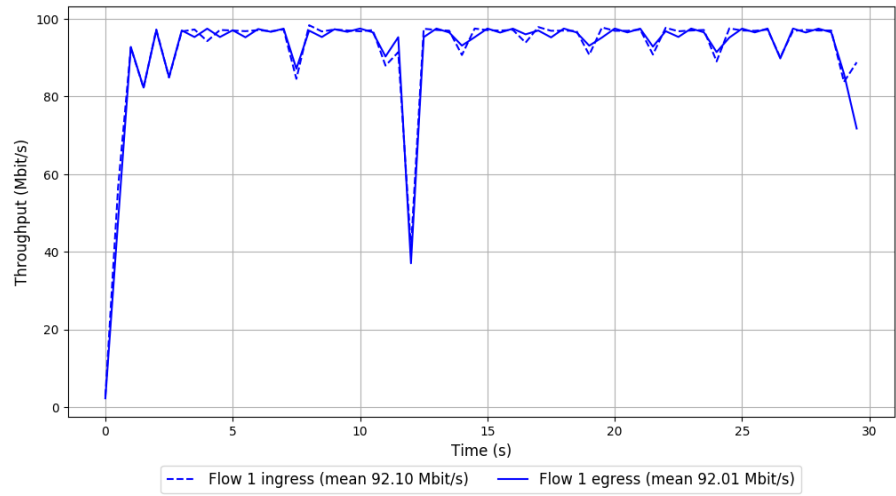
Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2018-02-04 05:34:19
End at: 2018-02-04 05:34:49
Local clock offset: -2.392 ms
Remote clock offset: 5.239 ms


# Below is generated by plot.py at 2018-02-04 11:52:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 57.231 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 57.231 ms
Loss rate: 0.47%
```
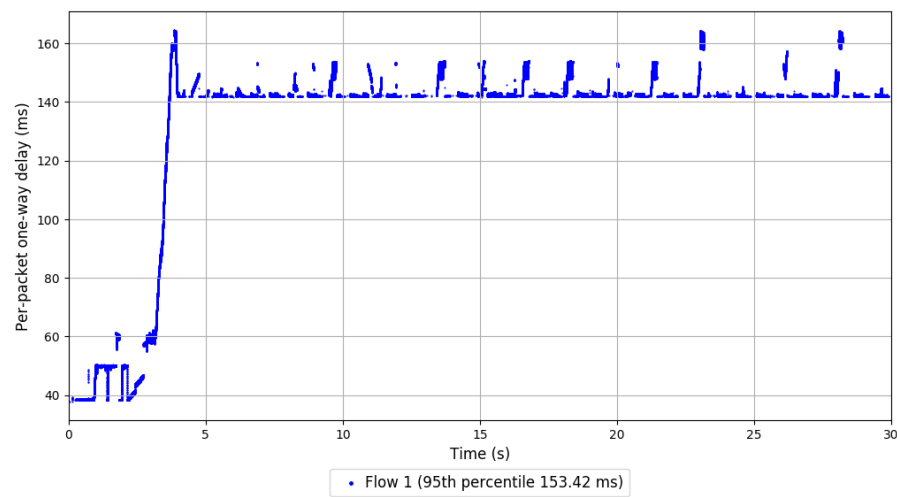
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2018-02-04 06:01:05
End at: 2018-02-04 06:01:35
Local clock offset: 0.203 ms
Remote clock offset: 6.128 ms


# Below is generated by plot.py at 2018-02-04 11:52:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 153.416 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 43.81 Mbit/s
95th percentile per-packet one-way delay: 153.416 ms
Loss rate: 2.86%
```
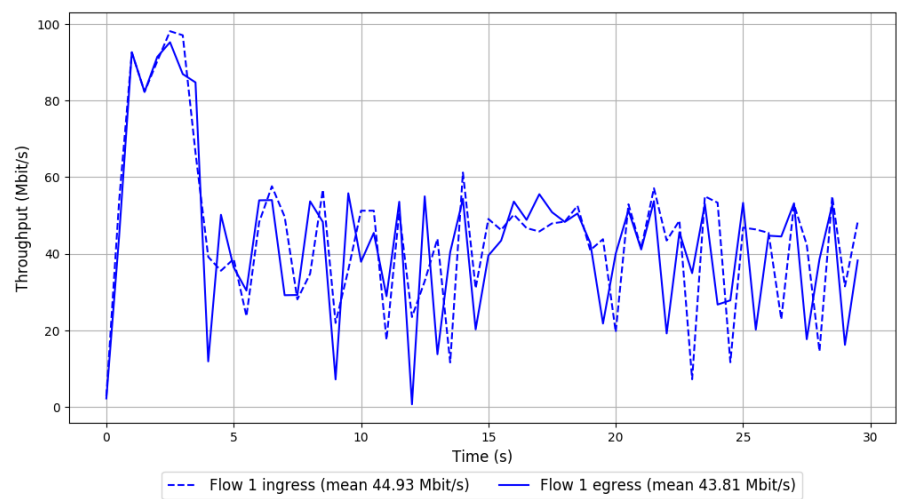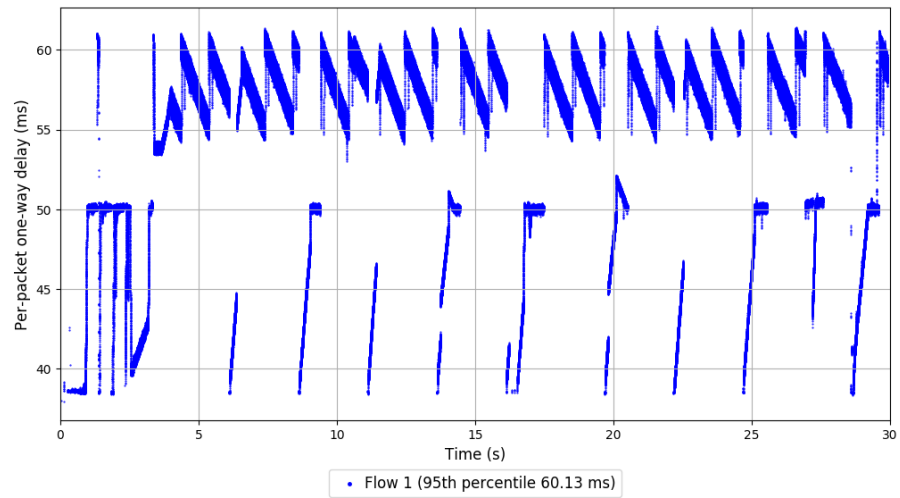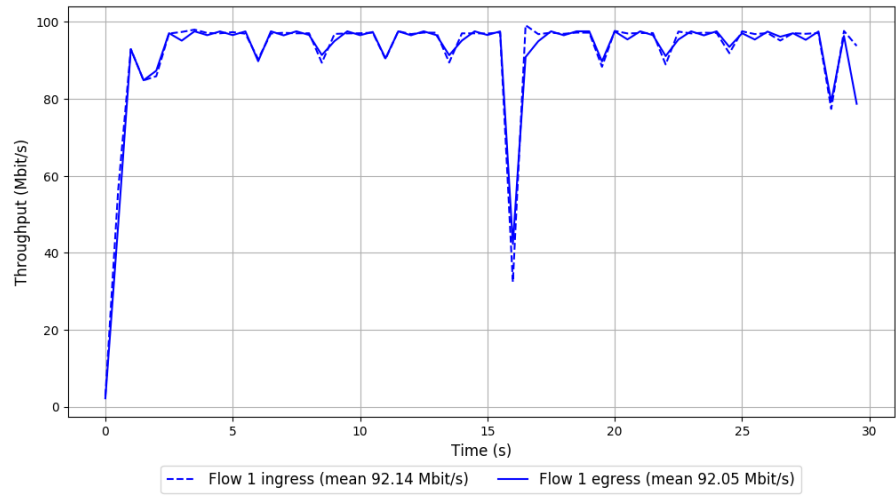
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 44.93 Mbit/s) — Flow 1 egress (mean 43.81 Mbit/s)

Flow 1 (95th percentile 153.42 ms)

13

```
Run 6: Statistics of TCP BBR

Start at: 2018-02-04 06:26:33
End at: 2018-02-04 06:27:03
Local clock offset: 0.974 ms
Remote clock offset: 6.534 ms


# Below is generated by plot.py at 2018-02-04 11:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.05 Mbit/s
95th percentile per-packet one-way delay: 60.134 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 92.05 Mbit/s
95th percentile per-packet one-way delay: 60.134 ms
Loss rate: 0.46%
```
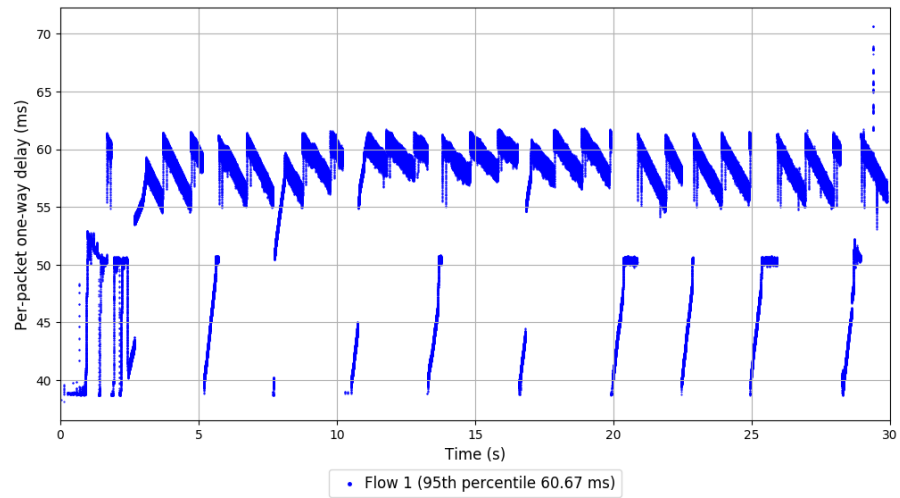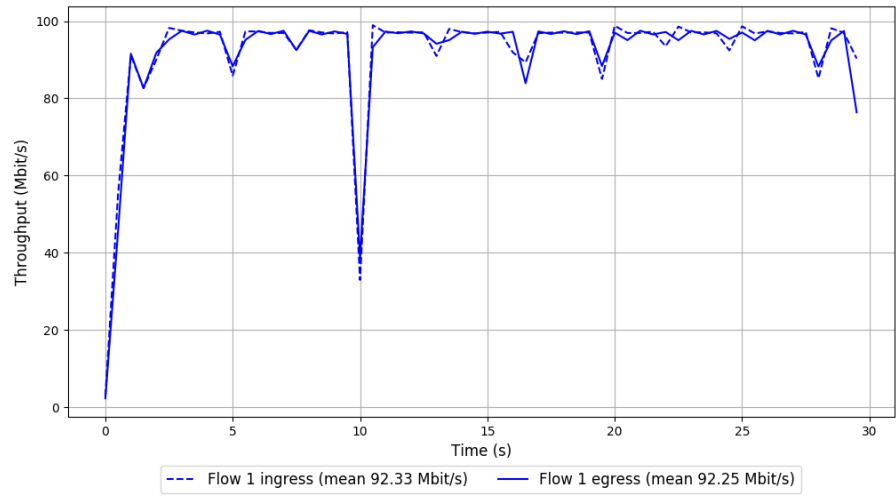
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 92.14 Mbit/s) — — — Flow 1 egress (mean 92.05 Mbit/s)

• Flow 1 (95th percentile 60.13 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-02-04 06:49:59
End at: 2018-02-04 06:50:29
Local clock offset: 1.455 ms
Remote clock offset: 7.155 ms


# Below is generated by plot.py at 2018-02-04 11:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.25 Mbit/s
95th percentile per-packet one-way delay: 60.669 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 92.25 Mbit/s
95th percentile per-packet one-way delay: 60.669 ms
Loss rate: 0.46%
```
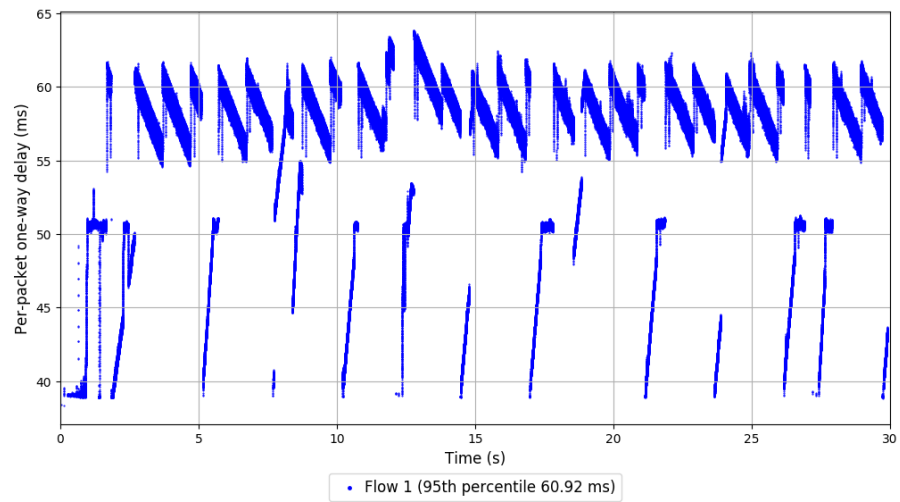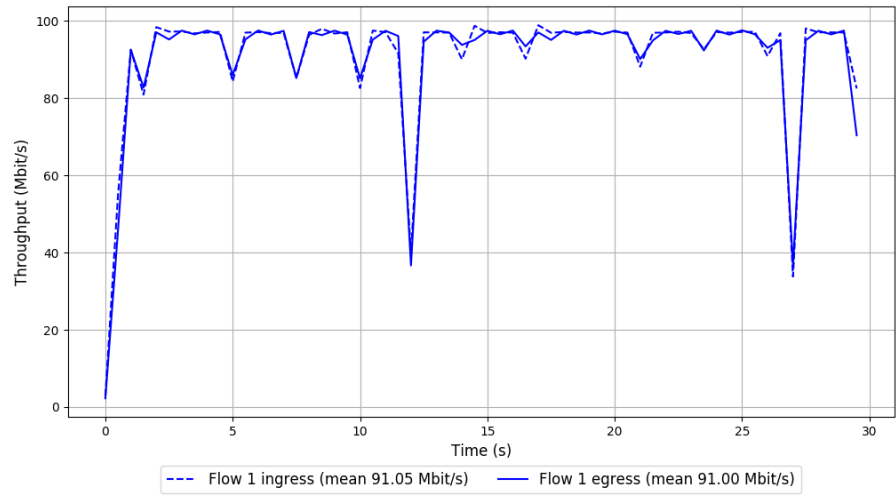
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 92.33 Mbit/s) ---- Flow 1 egress (mean 92.25 Mbit/s) ——

• Flow 1 (95th percentile 60.67 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-02-04 07:13:36
End at: 2018-02-04 07:14:06
Local clock offset: 1.574 ms
Remote clock offset: 8.041 ms


# Below is generated by plot.py at 2018-02-04 11:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 60.923 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 60.923 ms
Loss rate: 0.43%
```
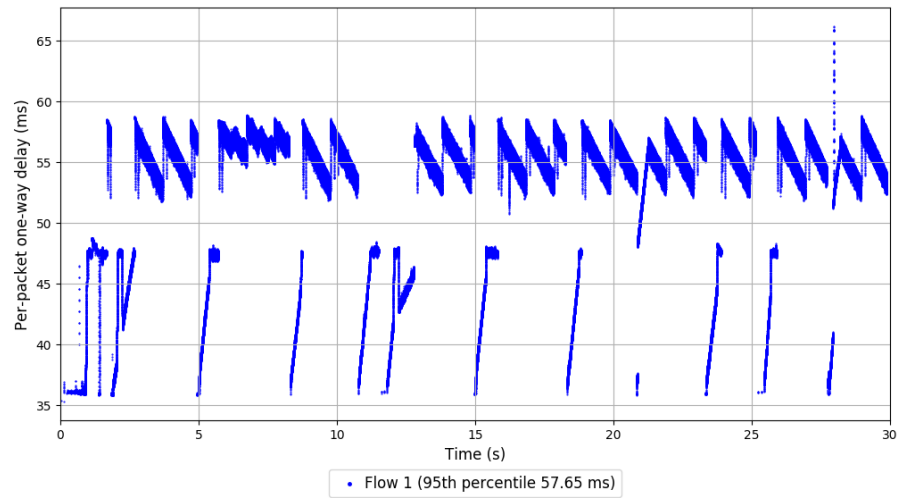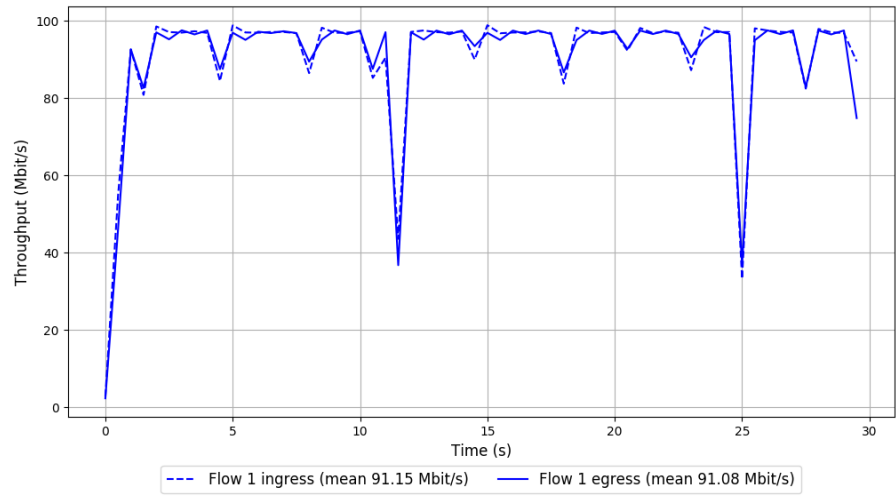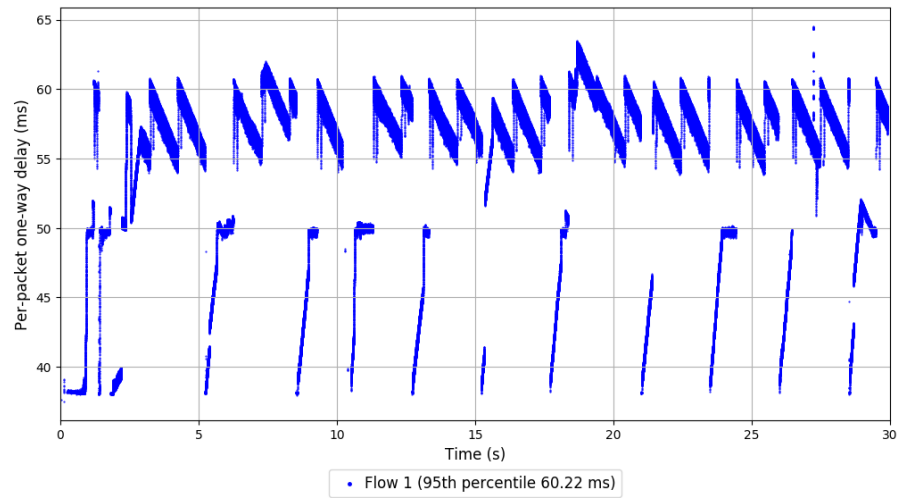
Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 91.05 Mbit/s) — — —   Flow 1 egress (mean 91.00 Mbit/s)

· Flow 1 (95th percentile 60.92 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-02-04 07:35:23
End at: 2018-02-04 07:35:53
Local clock offset: -1.672 ms
Remote clock offset: 9.451 ms


# Below is generated by plot.py at 2018-02-04 11:53:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 57.651 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 91.08 Mbit/s
95th percentile per-packet one-way delay: 57.651 ms
Loss rate: 0.46%
```
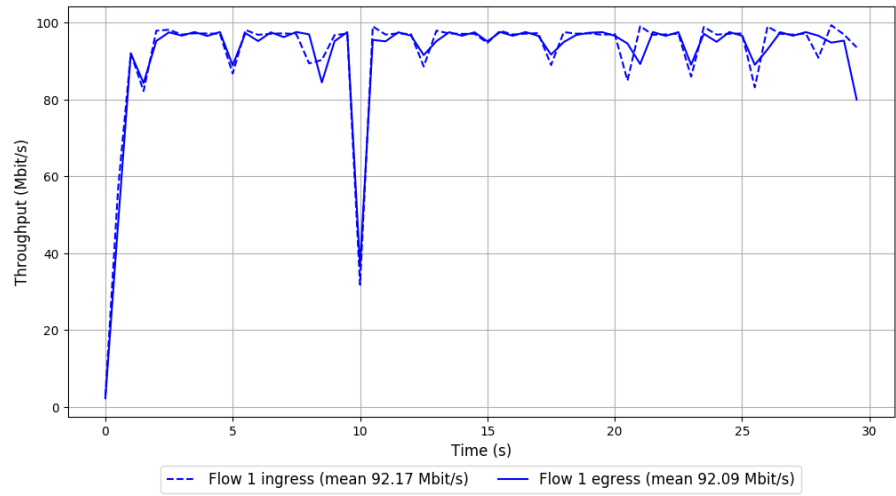
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 91.15 Mbit/s)   Flow 1 egress (mean 91.08 Mbit/s)

Flow 1 (95th percentile 57.65 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-02-04 07:57:09
End at: 2018-02-04 07:57:39
Local clock offset: 0.694 ms
Remote clock offset: 10.415 ms

# Below is generated by plot.py at 2018-02-04 11:54:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 60.223 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 92.09 Mbit/s
95th percentile per-packet one-way delay: 60.223 ms
Loss rate: 0.46%
```
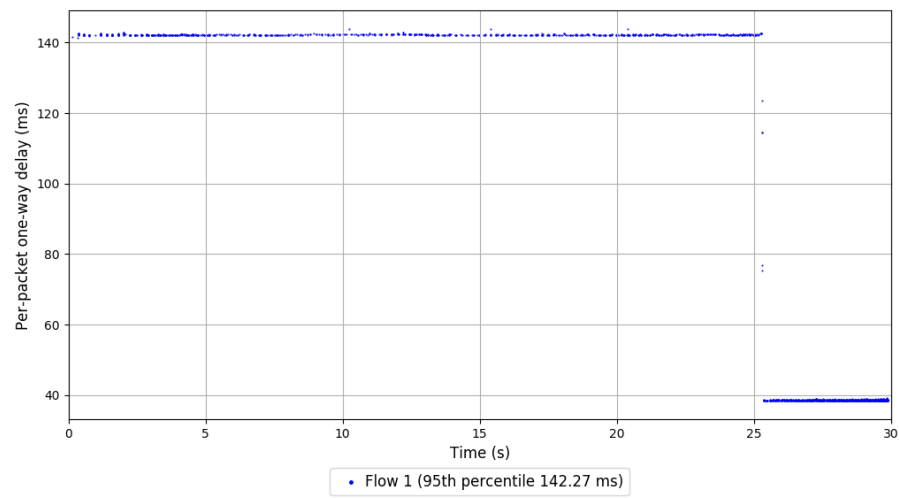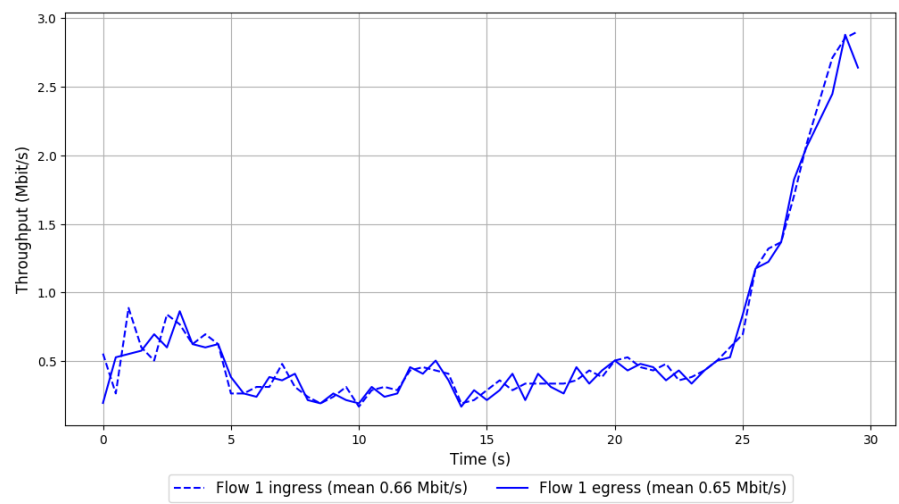
Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 92.17 Mbit/s) — Flow 1 egress (mean 92.09 Mbit/s)

• Flow 1 (95th percentile 60.22 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2018-02-04 04:15:10
End at: 2018-02-04 04:15:40
Local clock offset: -1.065 ms
Remote clock offset: 2.056 ms


# Below is generated by plot.py at 2018-02-04 11:54:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 142.269 ms
Loss rate: 3.37%
-- Flow 1:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 142.269 ms
Loss rate: 3.37%
```
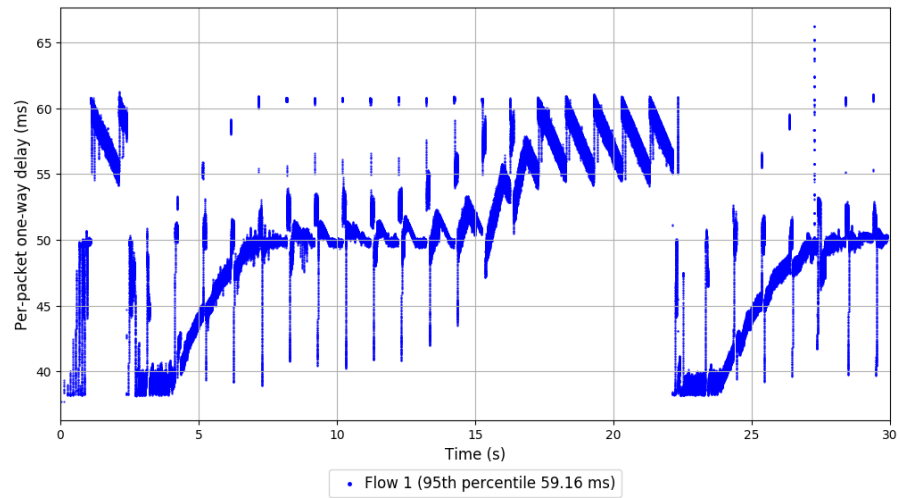
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2018-02-04 04:39:57
End at: 2018-02-04 04:40:27
Local clock offset: -0.226 ms
Remote clock offset: 2.837 ms


# Below is generated by plot.py at 2018-02-04 11:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 59.162 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 59.162 ms
Loss rate: 0.40%
```
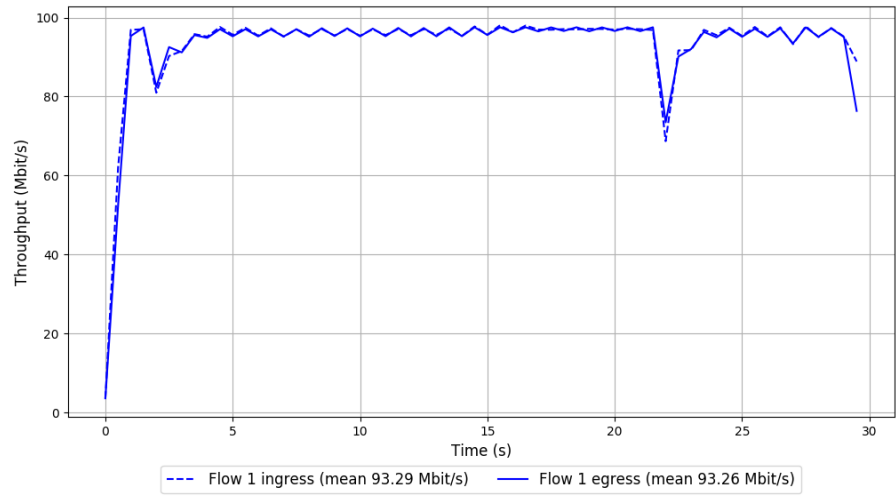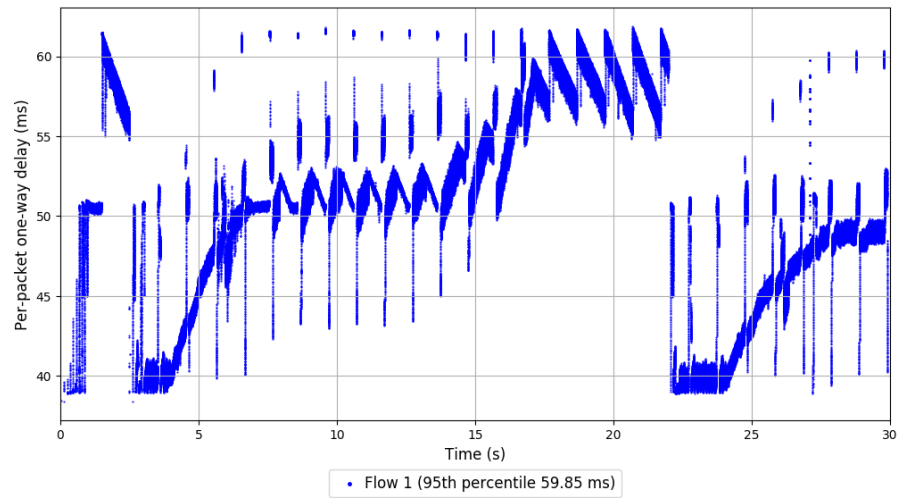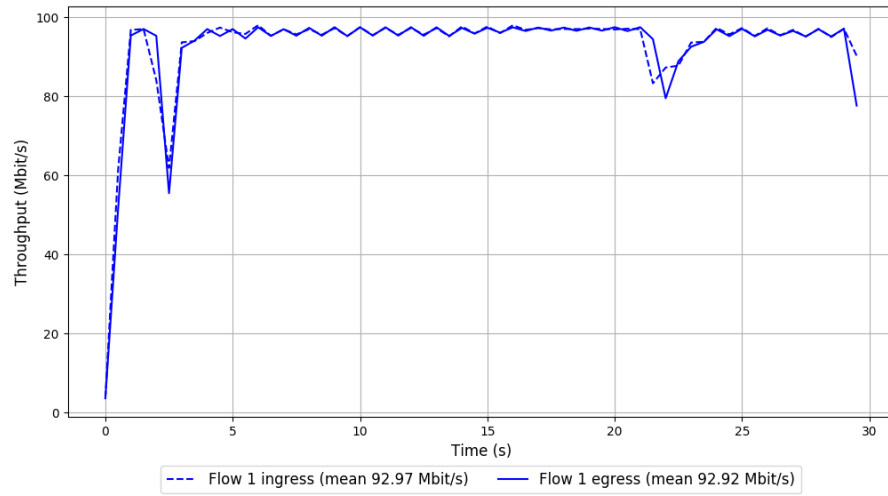
Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 93.29 Mbit/s)   —— Flow 1 egress (mean 93.26 Mbit/s)

· Flow 1 (95th percentile 59.16 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2018-02-04 05:01:44
End at: 2018-02-04 05:02:14
Local clock offset: 0.06 ms
Remote clock offset: 3.74 ms


# Below is generated by plot.py at 2018-02-04 11:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 59.846 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 92.92 Mbit/s
95th percentile per-packet one-way delay: 59.846 ms
Loss rate: 0.40%
```
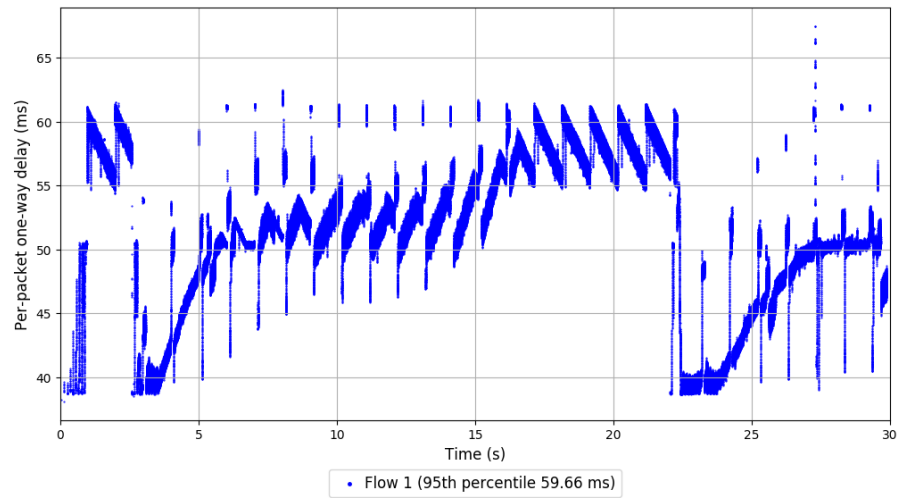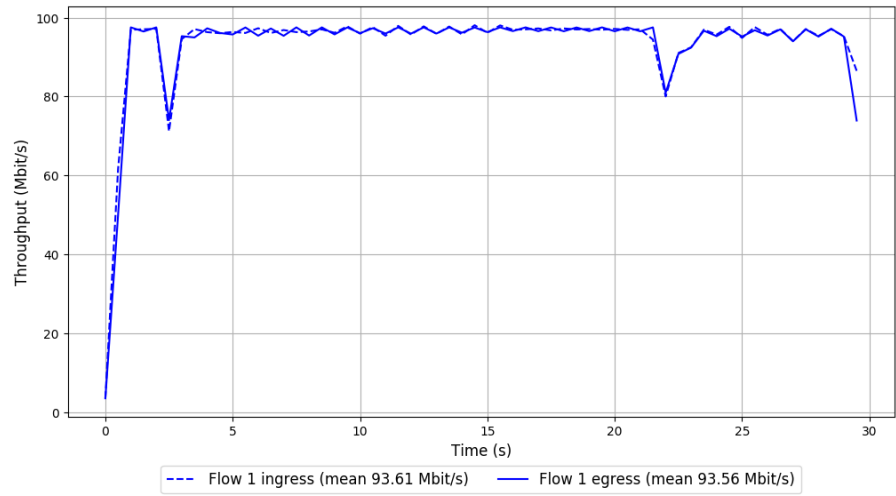
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 92.97 Mbit/s) --- Flow 1 egress (mean 92.92 Mbit/s)

• Flow 1 (95th percentile 59.85 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2018-02-04 05:23:30
End at: 2018-02-04 05:24:00
Local clock offset: 0.428 ms
Remote clock offset: 4.718 ms


# Below is generated by plot.py at 2018-02-04 11:54:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 59.662 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 93.56 Mbit/s
95th percentile per-packet one-way delay: 59.662 ms
Loss rate: 0.40%
```
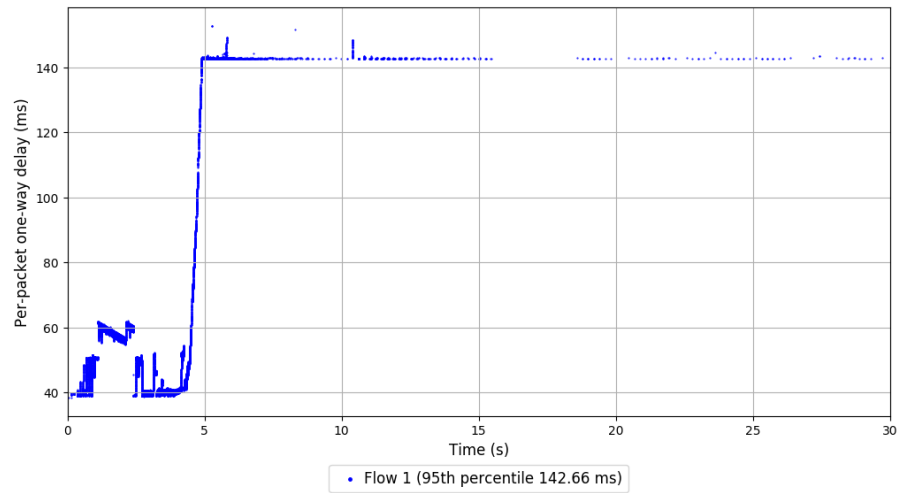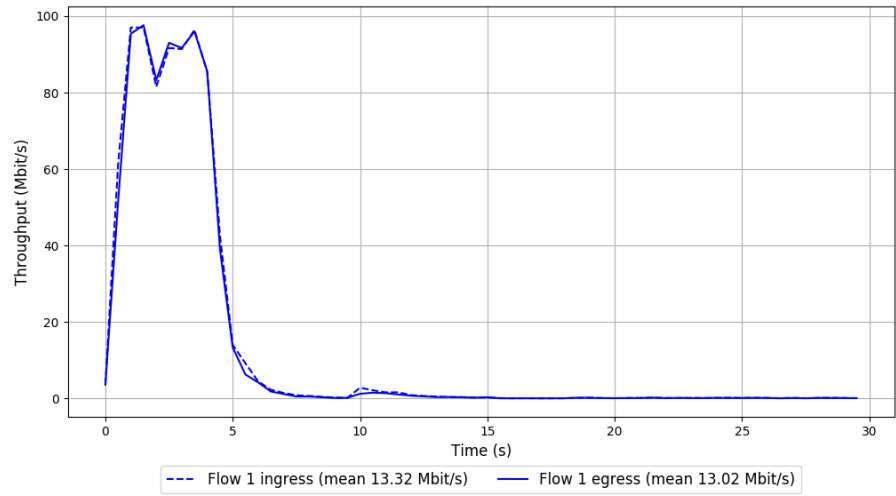
Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 93.61 Mbit/s) --- Flow 1 egress (mean 93.56 Mbit/s)

Flow 1 (95th percentile 59.66 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2018-02-04 05:45:16
End at: 2018-02-04 05:45:46
Local clock offset: 0.488 ms
Remote clock offset: 5.764 ms


# Below is generated by plot.py at 2018-02-04 11:54:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 142.658 ms
Loss rate: 2.61%
-- Flow 1:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 142.658 ms
Loss rate: 2.61%
```
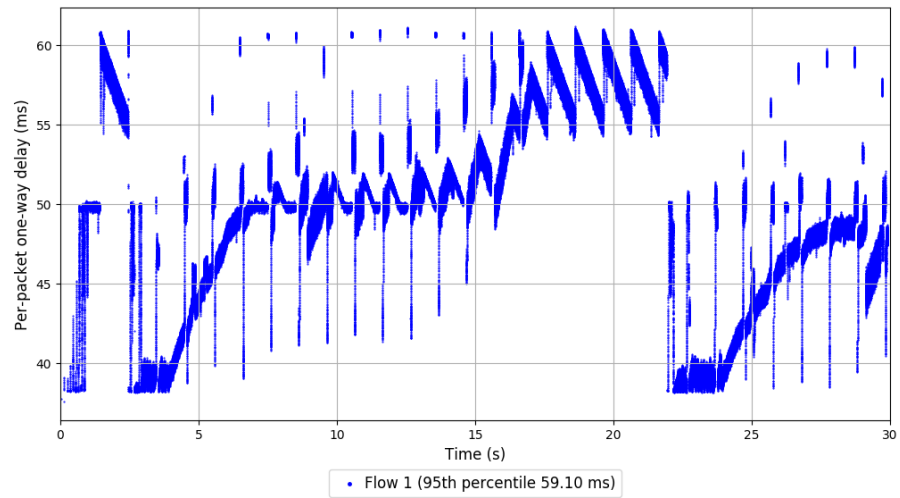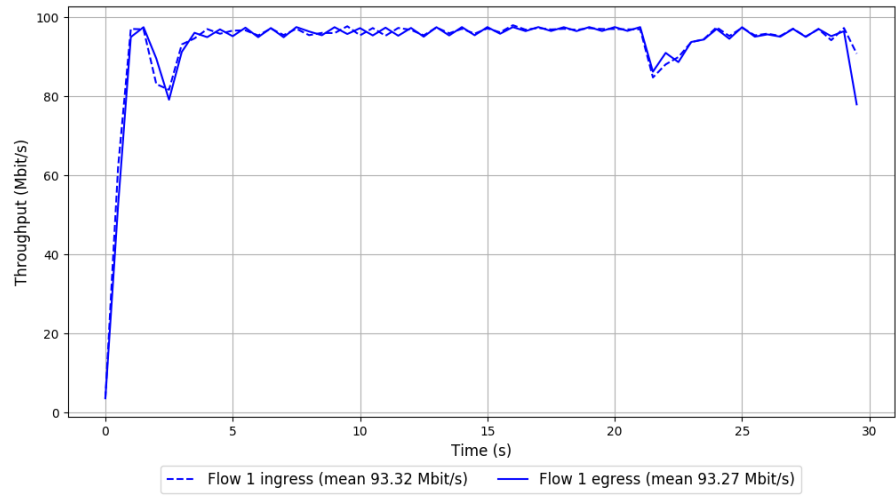
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 13.32 Mbit/s)   Flow 1 egress (mean 13.02 Mbit/s)

• Flow 1 (95th percentile 142.66 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-02-04 06:15:41
End at: 2018-02-04 06:16:11
Local clock offset: 0.622 ms
Remote clock offset: 6.204 ms


# Below is generated by plot.py at 2018-02-04 11:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 59.105 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 93.27 Mbit/s
95th percentile per-packet one-way delay: 59.105 ms
Loss rate: 0.39%
```
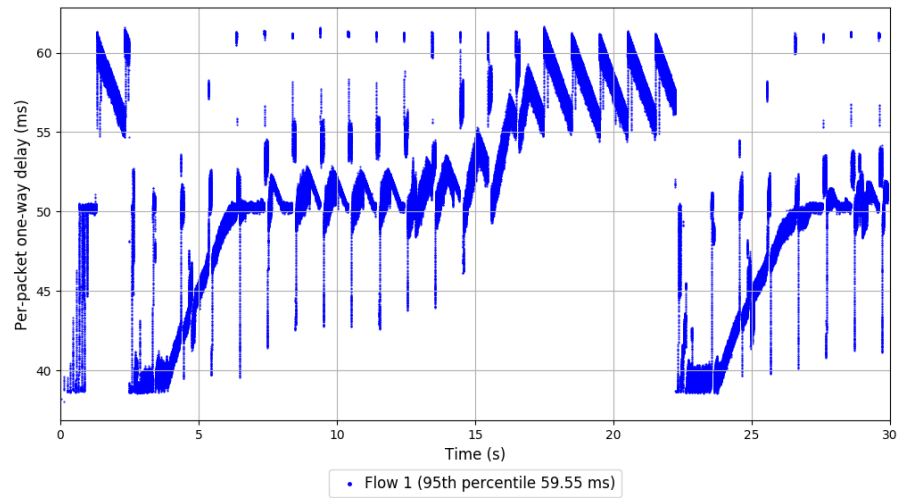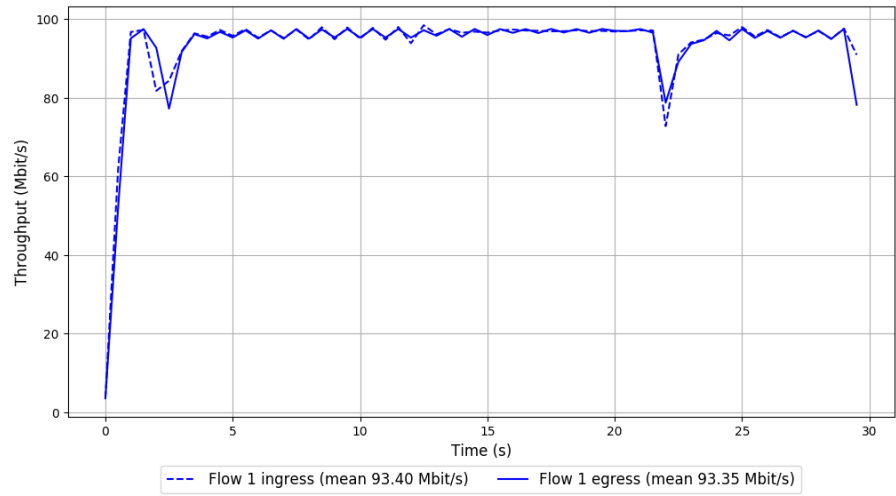
Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 93.32 Mbit/s) ——— Flow 1 egress (mean 93.27 Mbit/s)

• Flow 1 (95th percentile 59.10 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2018-02-04 06:39:11
End at: 2018-02-04 06:39:41
Local clock offset: 1.331 ms
Remote clock offset: 6.85 ms


# Below is generated by plot.py at 2018-02-04 11:54:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 59.546 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 59.546 ms
Loss rate: 0.40%
```
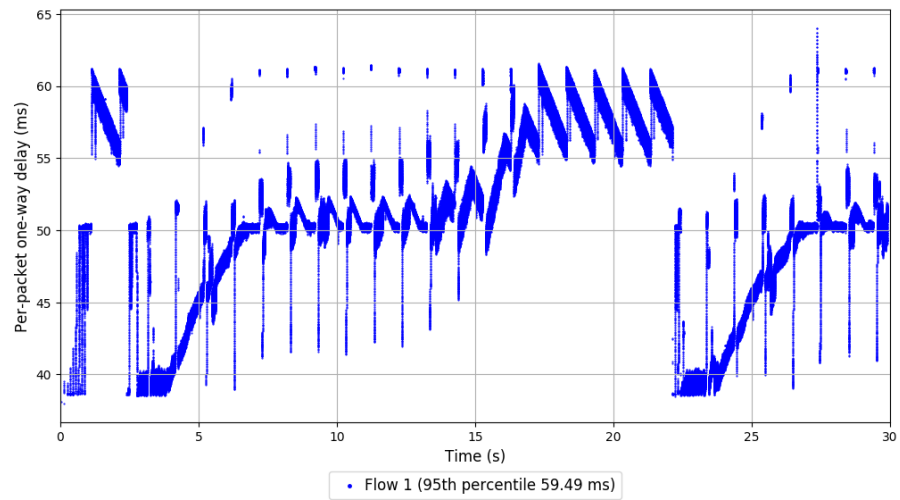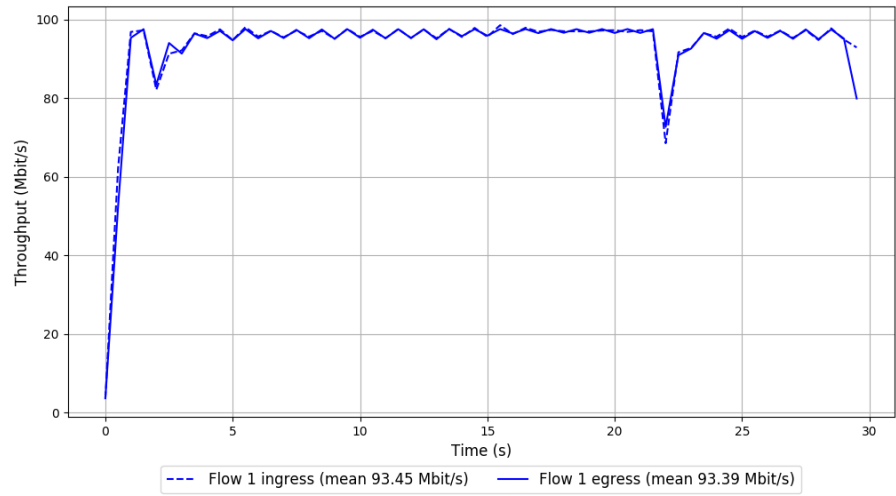
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 93.40 Mbit/s)   Flow 1 egress (mean 93.35 Mbit/s)

• Flow 1 (95th percentile 59.55 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-02-04 07:02:44
End at: 2018-02-04 07:03:14
Local clock offset: 1.596 ms
Remote clock offset: 7.461 ms


# Below is generated by plot.py at 2018-02-04 11:54:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 59.487 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 59.487 ms
Loss rate: 0.40%
```
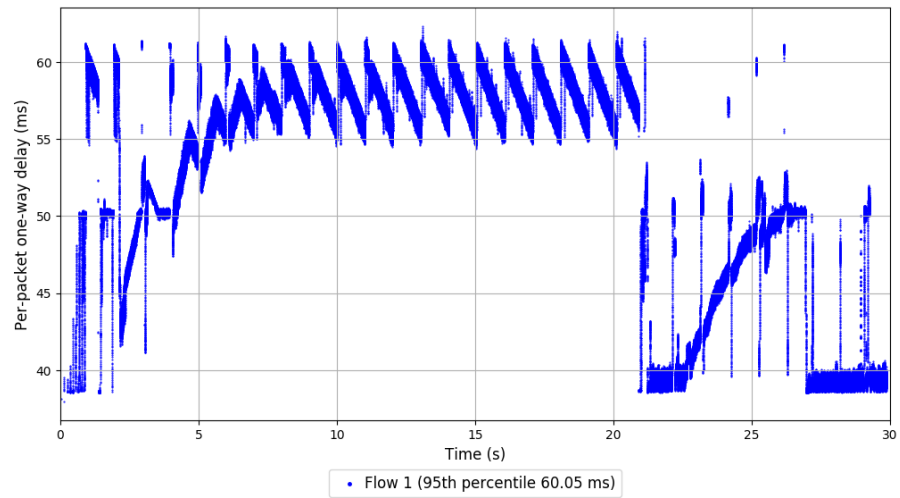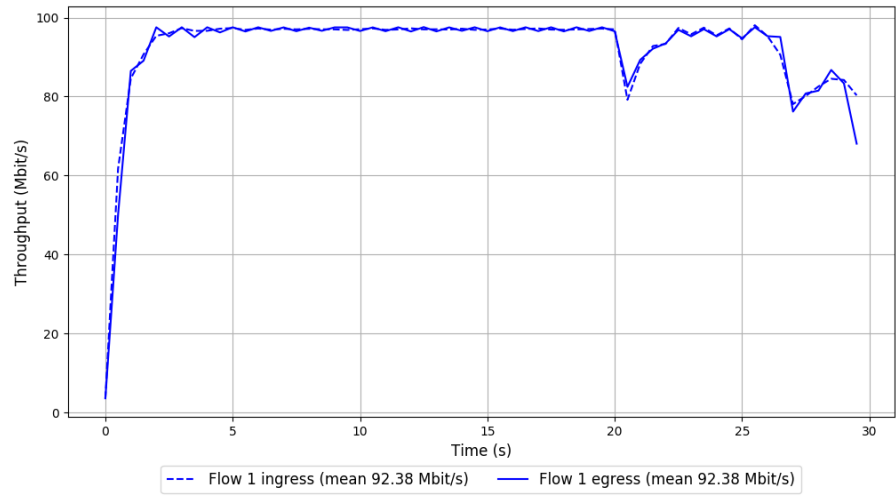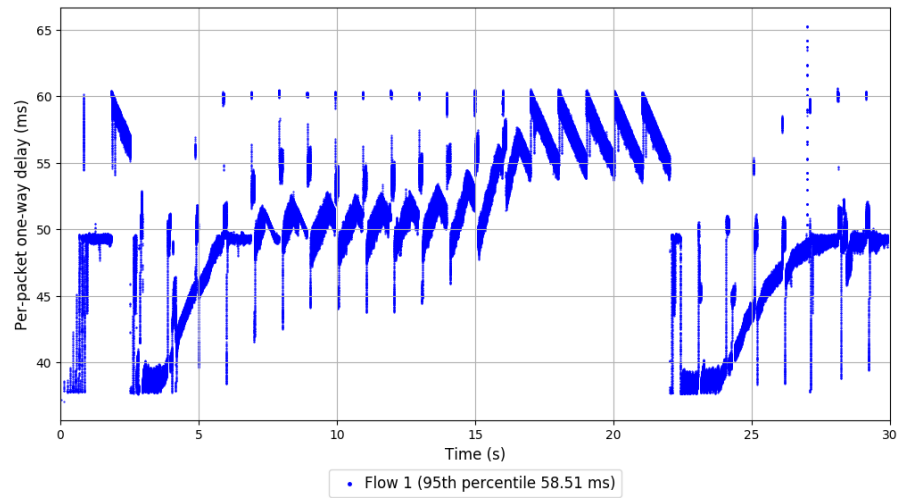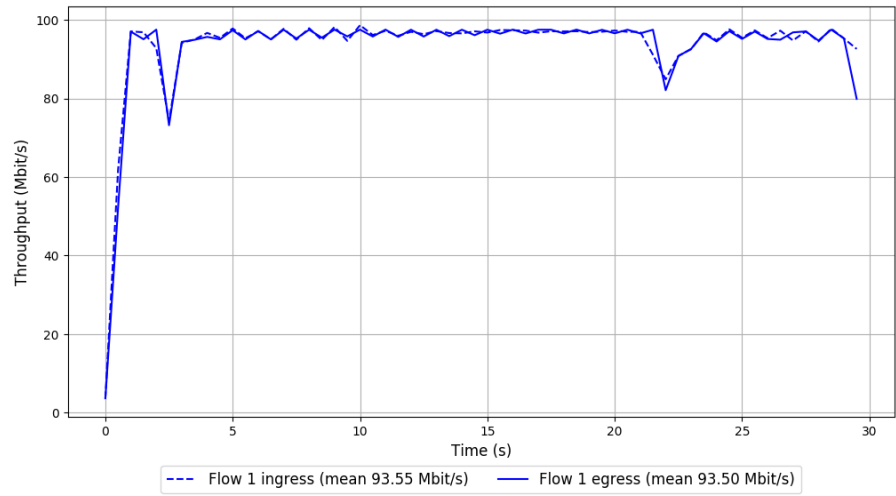
Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 93.45 Mbit/s) --- Flow 1 egress (mean 93.39 Mbit/s)

Flow 1 (95th percentile 59.49 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2018-02-04 07:24:33
End at: 2018-02-04 07:25:03
Local clock offset: 1.36 ms
Remote clock offset: 8.691 ms


# Below is generated by plot.py at 2018-02-04 11:54:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.38 Mbit/s
95th percentile per-packet one-way delay: 60.052 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 92.38 Mbit/s
95th percentile per-packet one-way delay: 60.052 ms
Loss rate: 0.33%
```

Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 92.38 Mbit/s) ---- Flow 1 egress (mean 92.38 Mbit/s) ——

Flow 1 (95th percentile 60.05 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-02-04 07:46:19
End at: 2018-02-04 07:46:49
Local clock offset: 0.356 ms
Remote clock offset: 9.988 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 58.507 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 58.507 ms
Loss rate: 0.40%
```
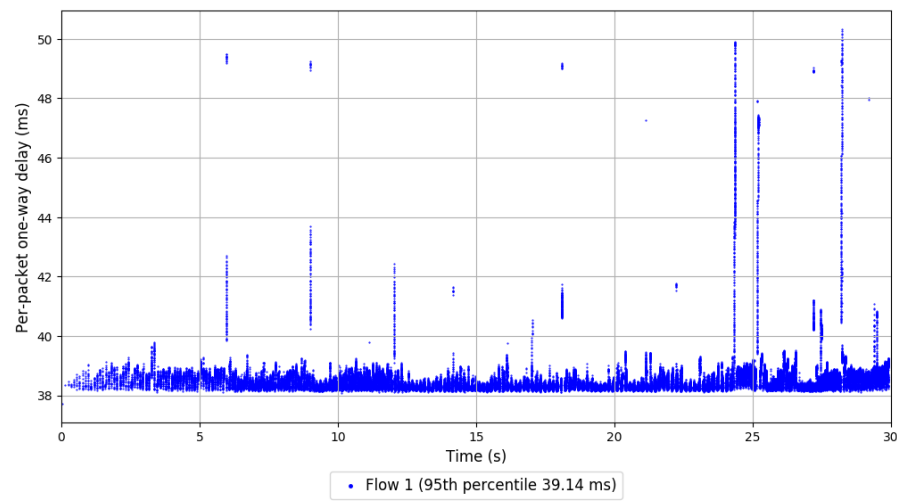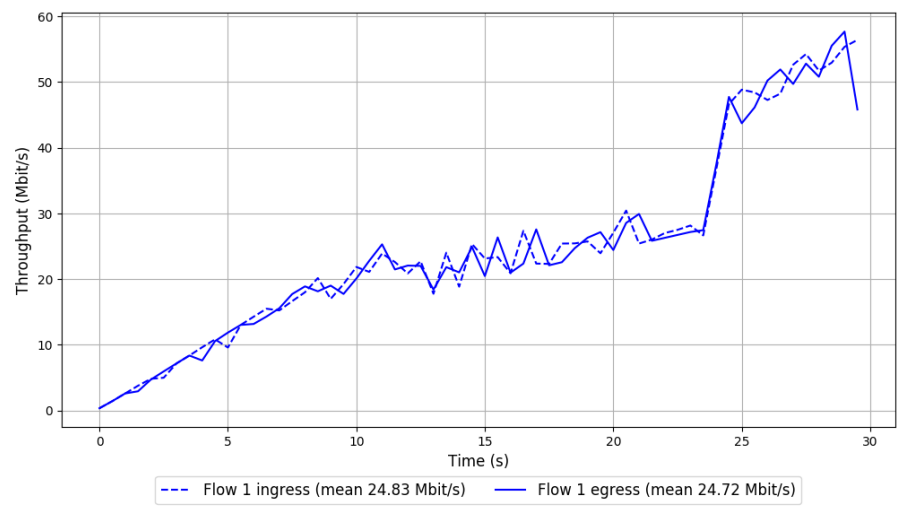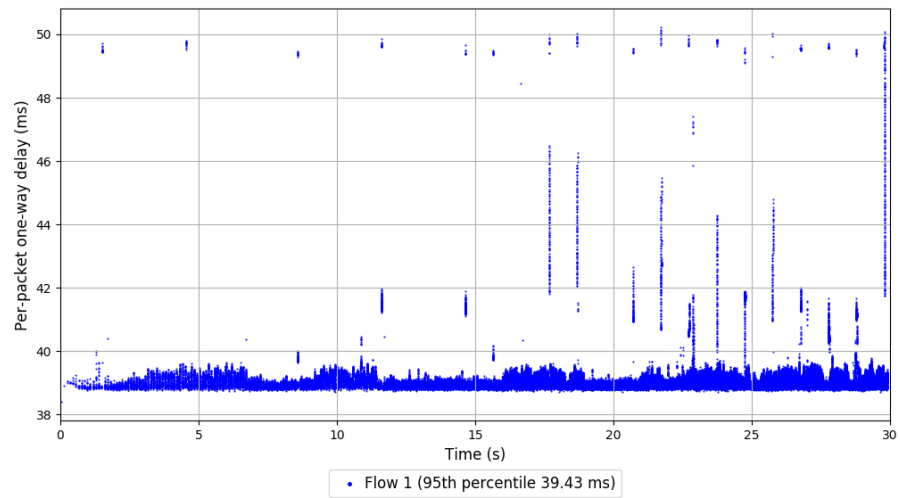
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 93.55 Mbit/s) ----   Flow 1 egress (mean 93.50 Mbit/s) ——

• Flow 1 (95th percentile 58.51 ms)

43

```
Run 1: Statistics of LEDBAT

Start at: 2018-02-04 04:27:40
End at: 2018-02-04 04:28:10
Local clock offset: -0.714 ms
Remote clock offset: 2.408 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 39.138 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 39.138 ms
Loss rate: 0.80%
```
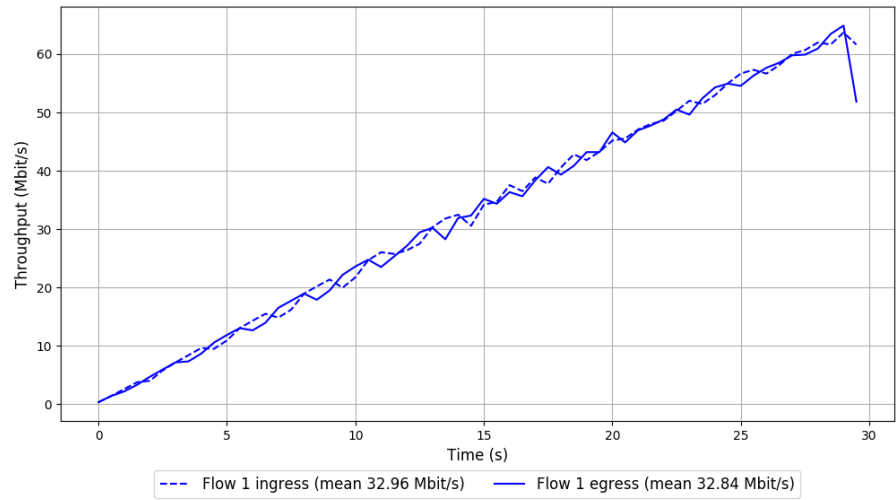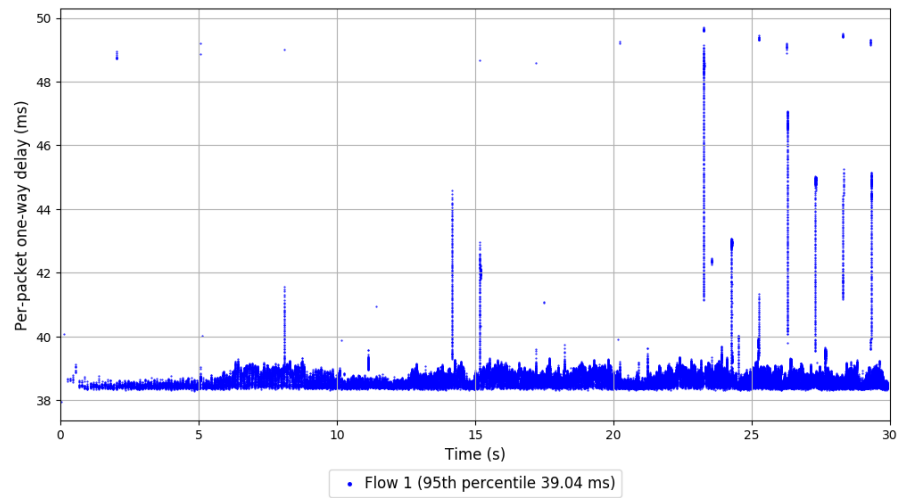
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2018-02-04 04:49:37
End at: 2018-02-04 04:50:07
Local clock offset: 0.244 ms
Remote clock offset: 3.252 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 39.432 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.84 Mbit/s
95th percentile per-packet one-way delay: 39.432 ms
Loss rate: 0.69%
```
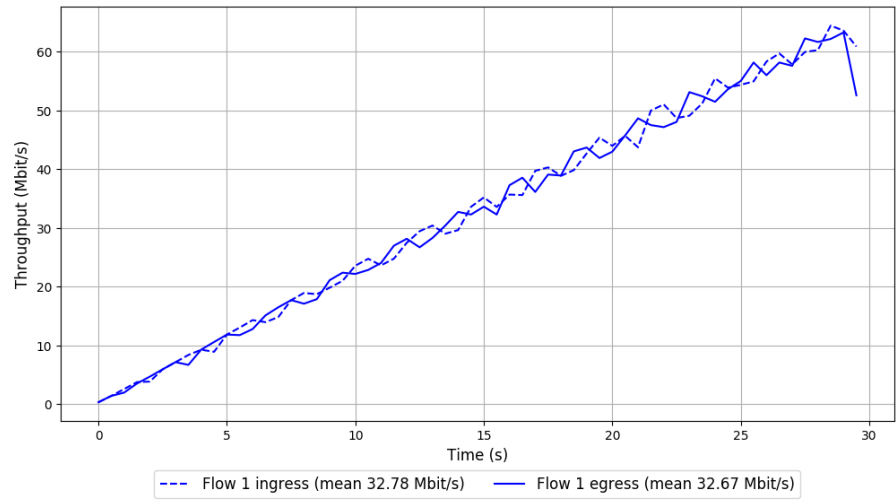
Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 32.96 Mbit/s)   Flow 1 egress (mean 32.84 Mbit/s)

• Flow 1 (95th percentile 39.43 ms)

47

```
Run 3: Statistics of LEDBAT

Start at: 2018-02-04 05:11:24
End at: 2018-02-04 05:11:54
Local clock offset: -0.396 ms
Remote clock offset: 4.189 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.67 Mbit/s
95th percentile per-packet one-way delay: 39.043 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.67 Mbit/s
95th percentile per-packet one-way delay: 39.043 ms
Loss rate: 0.69%
```
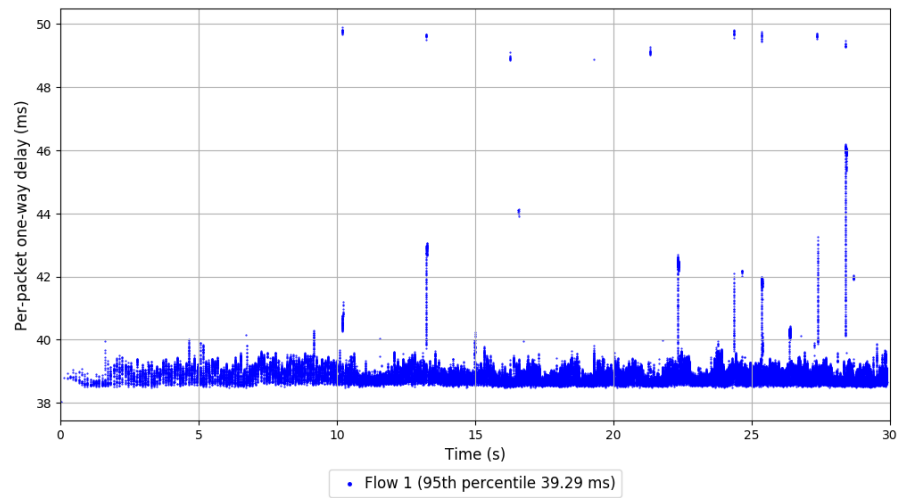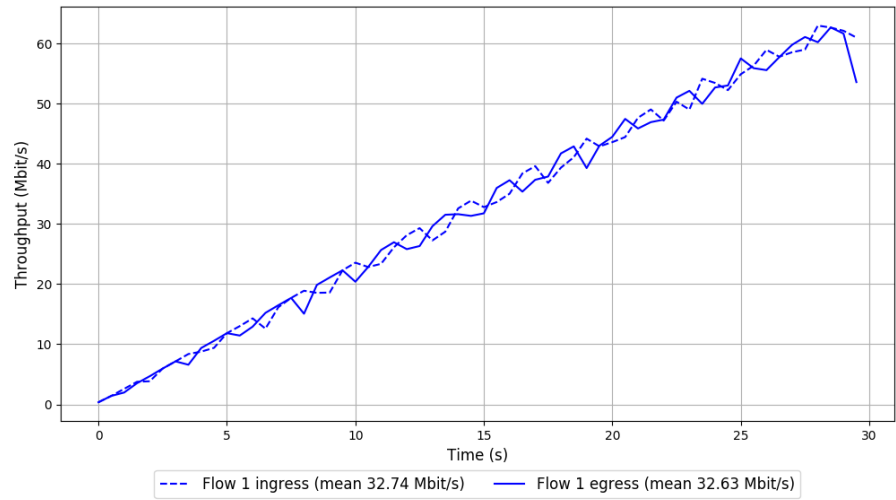
Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 32.78 Mbit/s)   Flow 1 egress (mean 32.67 Mbit/s)

• Flow 1 (95th percentile 39.04 ms)

49

```
Run 4: Statistics of LEDBAT

Start at: 2018-02-04 05:33:08
End at: 2018-02-04 05:33:38
Local clock offset: -0.058 ms
Remote clock offset: 5.154 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 39.294 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.63 Mbit/s
95th percentile per-packet one-way delay: 39.294 ms
Loss rate: 0.69%
```
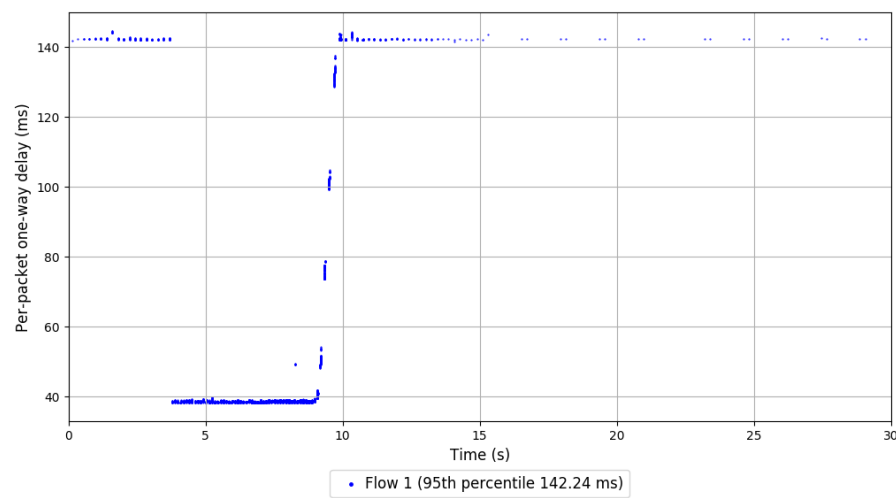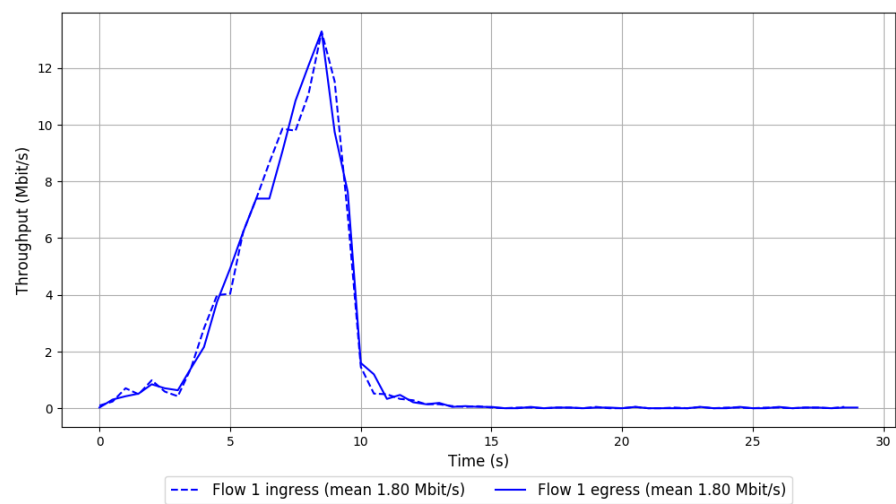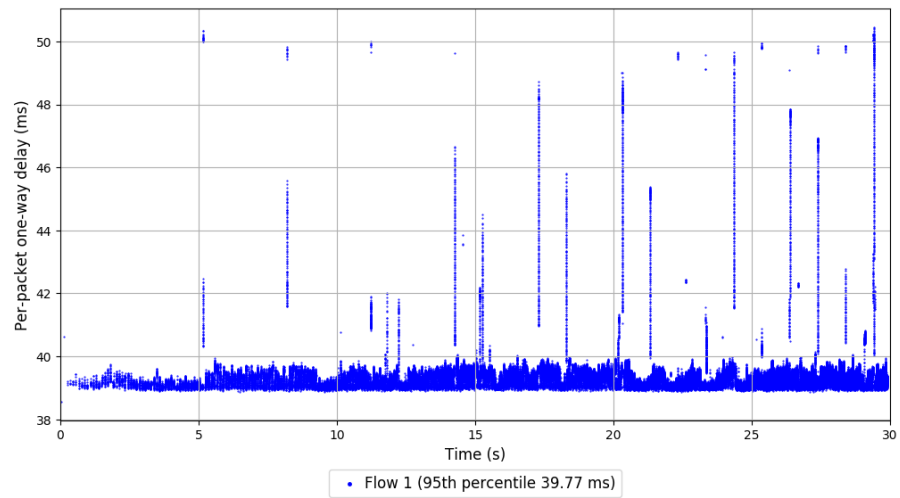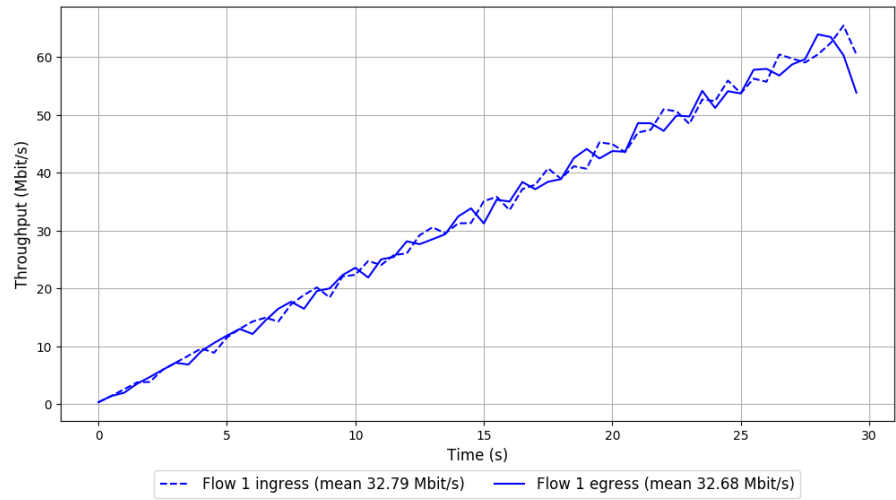
Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 32.74 Mbit/s) ----   Flow 1 egress (mean 32.63 Mbit/s) ——

Flow 1 (95th percentile 39.29 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2018-02-04 05:59:49
End at: 2018-02-04 06:00:19
Local clock offset: 0.823 ms
Remote clock offset: 6.116 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 142.244 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 142.244 ms
Loss rate: 0.27%
```
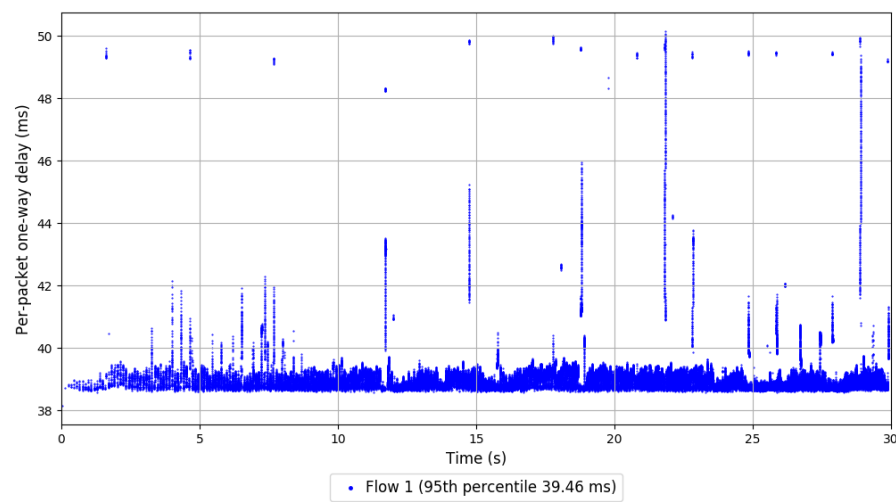
Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 1.80 Mbit/s) — — — Flow 1 egress (mean 1.80 Mbit/s)

• Flow 1 (95th percentile 142.24 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2018-02-04 06:25:21
End at: 2018-02-04 06:25:51
Local clock offset: 1.112 ms
Remote clock offset: 6.502 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.68 Mbit/s
95th percentile per-packet one-way delay: 39.773 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.68 Mbit/s
95th percentile per-packet one-way delay: 39.773 ms
Loss rate: 0.69%
```
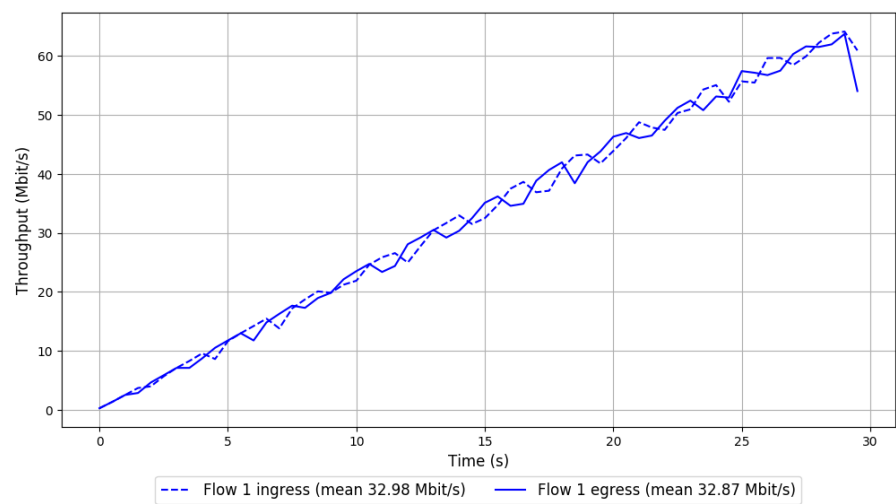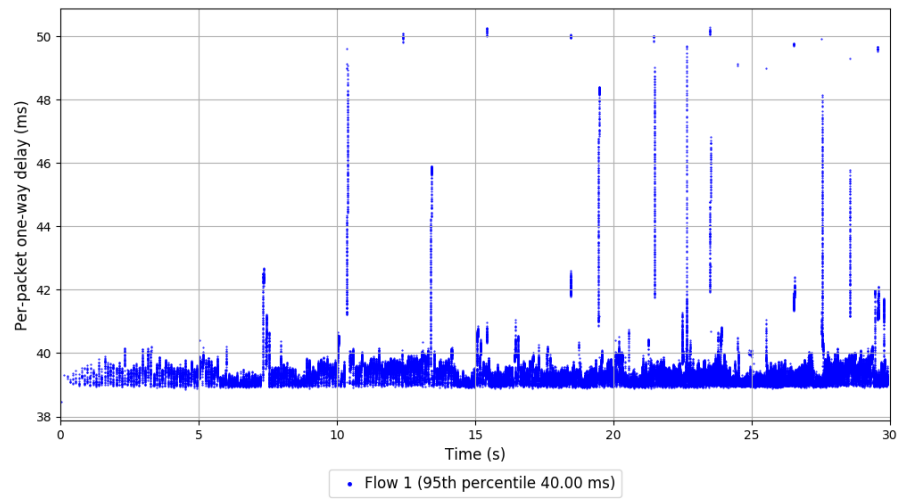
Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 32.79 Mbit/s)   Flow 1 egress (mean 32.68 Mbit/s)

Flow 1 (95th percentile 39.77 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2018-02-04 06:48:47
End at: 2018-02-04 06:49:17
Local clock offset: 1.426 ms
Remote clock offset: 7.123 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 39.460 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 39.460 ms
Loss rate: 0.69%
```
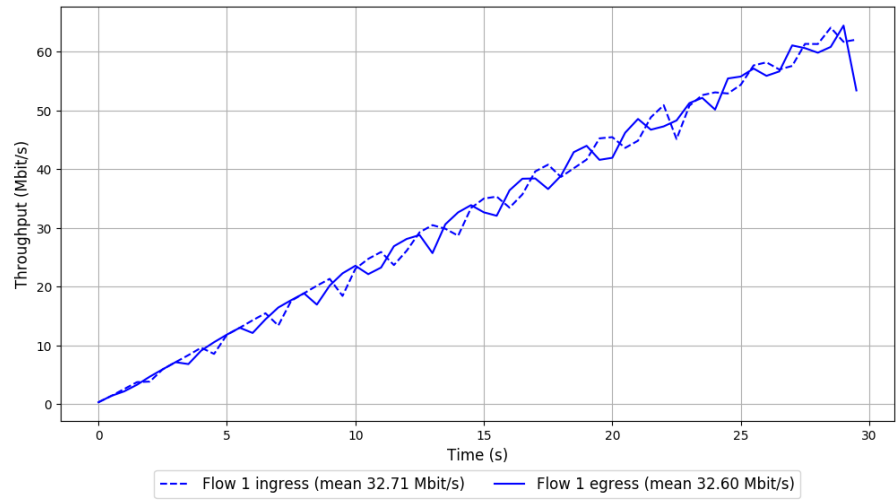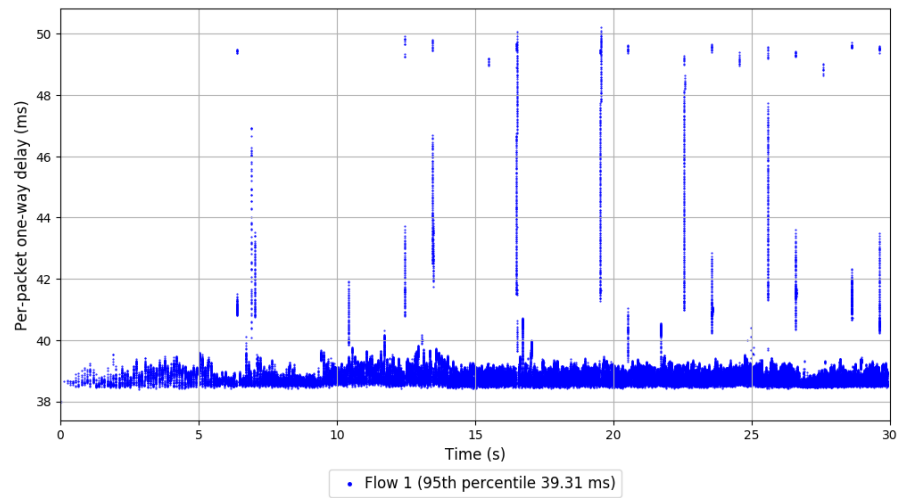
Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 32.98 Mbit/s)   Flow 1 egress (mean 32.87 Mbit/s)

• Flow 1 (95th percentile 39.46 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2018-02-04 07:12:25
End at: 2018-02-04 07:12:55
Local clock offset: 1.385 ms
Remote clock offset: 8.004 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 39.999 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 39.999 ms
Loss rate: 0.69%
```
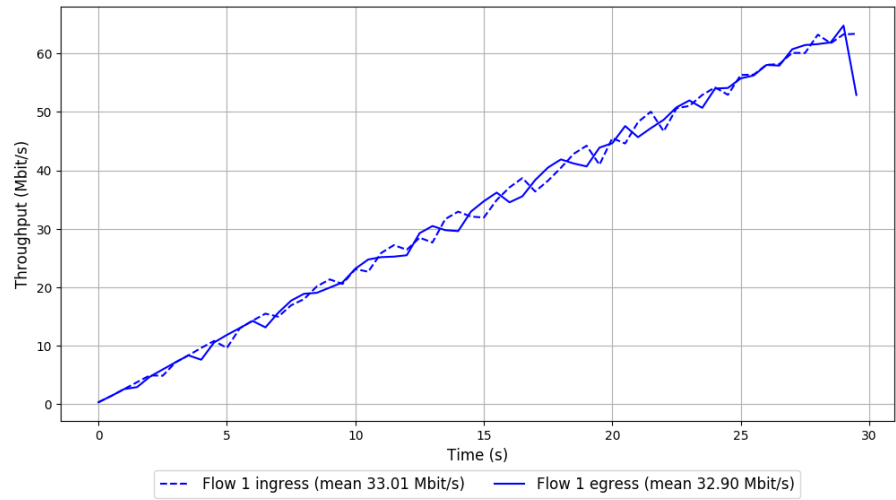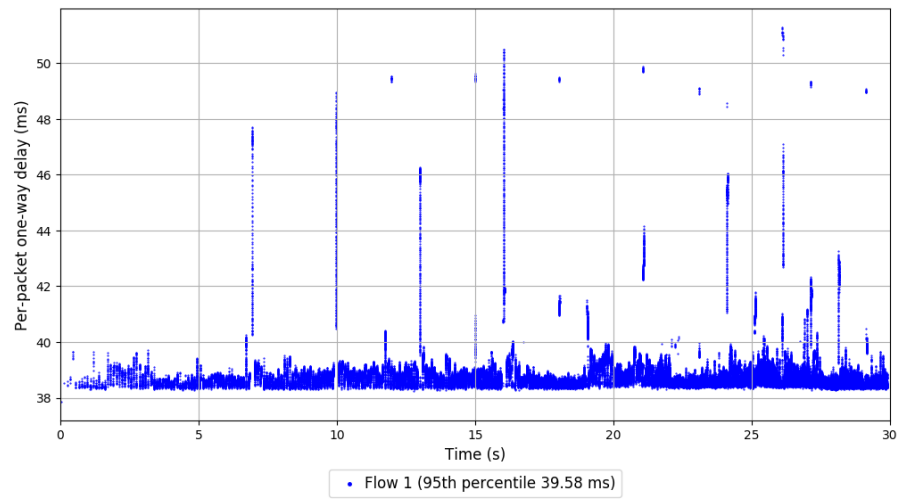
Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 32.71 Mbit/s) ——— Flow 1 egress (mean 32.60 Mbit/s)

• Flow 1 (95th percentile 40.00 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2018-02-04 07:34:12
End at: 2018-02-04 07:34:42
Local clock offset: 1.138 ms
Remote clock offset: 9.415 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.90 Mbit/s
95th percentile per-packet one-way delay: 39.306 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.90 Mbit/s
95th percentile per-packet one-way delay: 39.306 ms
Loss rate: 0.69%
```
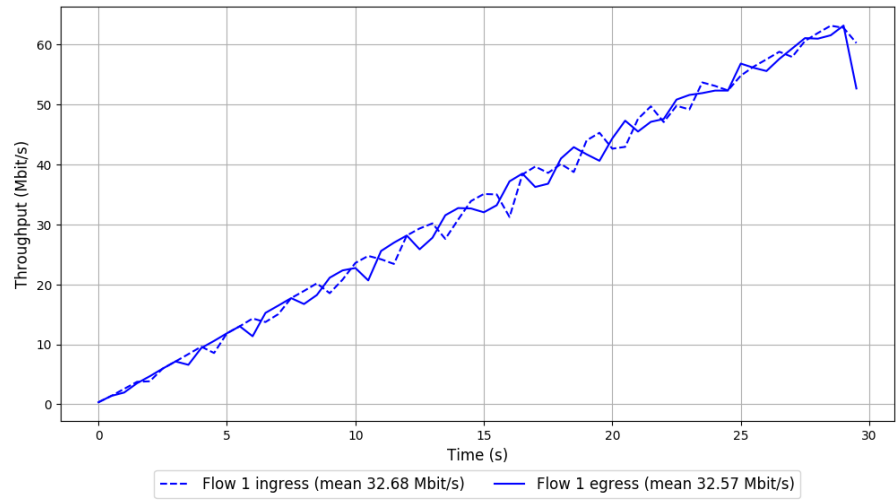
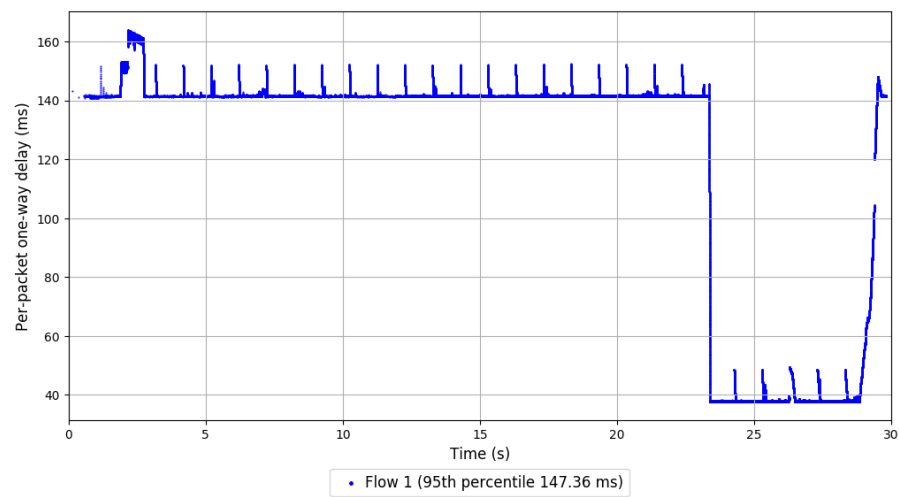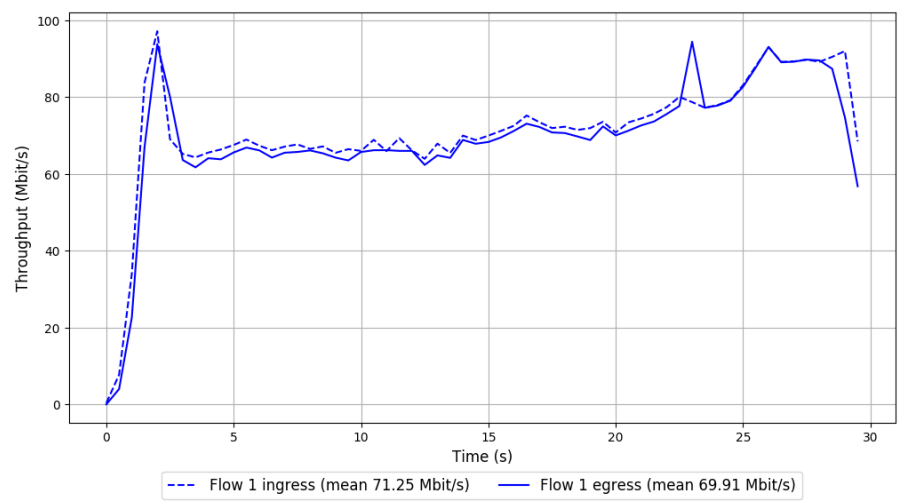Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 33.01 Mbit/s)   Flow 1 egress (mean 32.90 Mbit/s)

Flow 1 (95th percentile 39.31 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2018-02-04 07:55:58
End at: 2018-02-04 07:56:28
Local clock offset: 0.32 ms
Remote clock offset: 10.379 ms


# Below is generated by plot.py at 2018-02-04 11:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 39.580 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.57 Mbit/s
95th percentile per-packet one-way delay: 39.580 ms
Loss rate: 0.69%
```
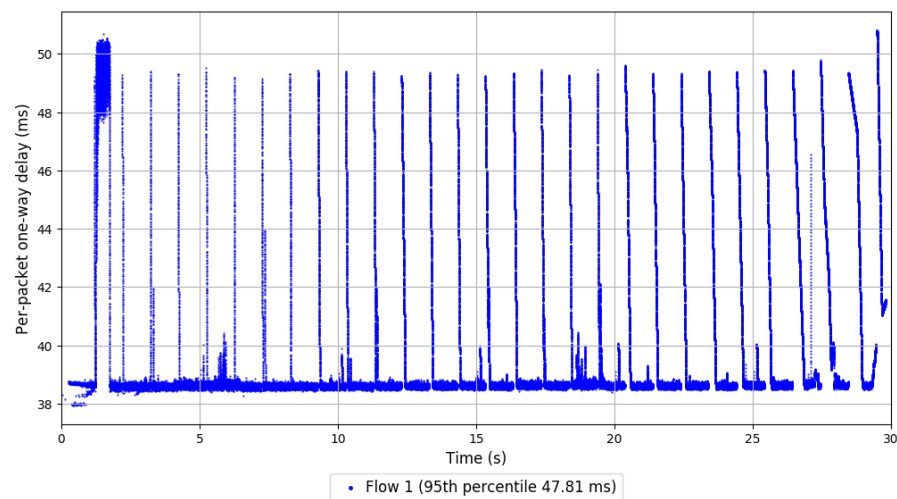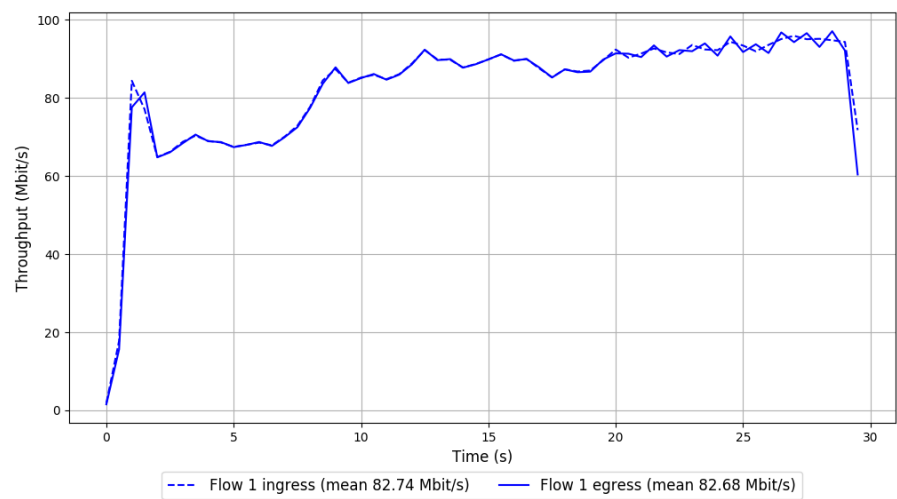
Run 10: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC

Start at: 2018-02-04 04:12:52
End at: 2018-02-04 04:13:22
Local clock offset: -0.979 ms
Remote clock offset: 2.019 ms


# Below is generated by plot.py at 2018-02-04 11:55:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.91 Mbit/s
95th percentile per-packet one-way delay: 147.362 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 69.91 Mbit/s
95th percentile per-packet one-way delay: 147.362 ms
Loss rate: 2.56%
```
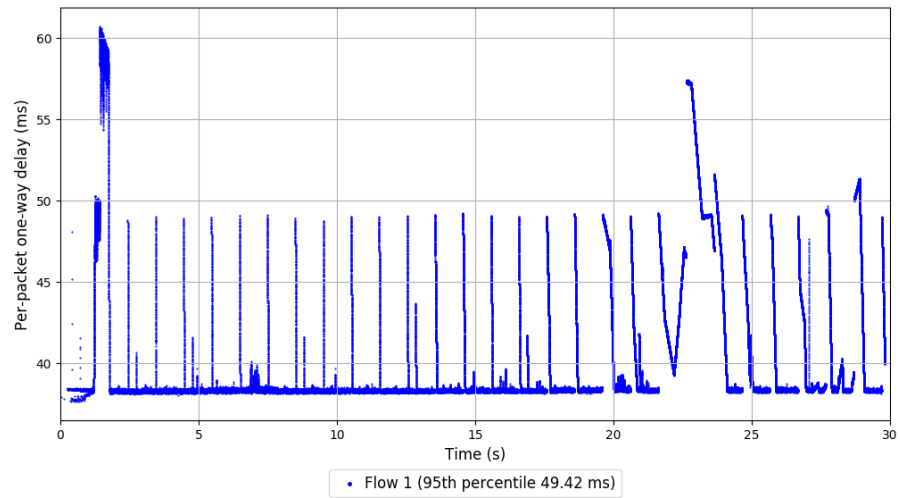
Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 71.25 Mbit/s) Flow 1 egress (mean 69.91 Mbit/s)

Flow 1 (95th percentile 147.36 ms)

```
Run 2: Statistics of PCC

Start at: 2018-02-04 04:38:45
End at: 2018-02-04 04:39:15
Local clock offset: -0.151 ms
Remote clock offset: 2.812 ms


# Below is generated by plot.py at 2018-02-04 11:56:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.68 Mbit/s
95th percentile per-packet one-way delay: 47.807 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 82.68 Mbit/s
95th percentile per-packet one-way delay: 47.807 ms
Loss rate: 0.42%
```
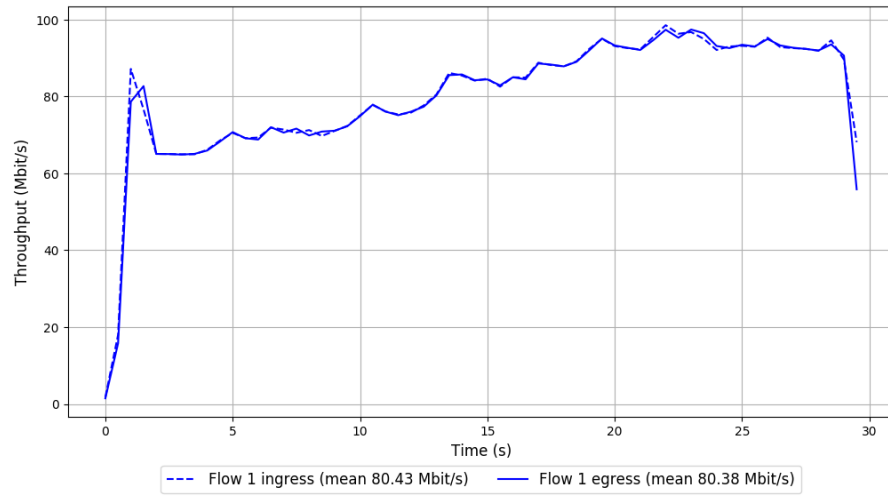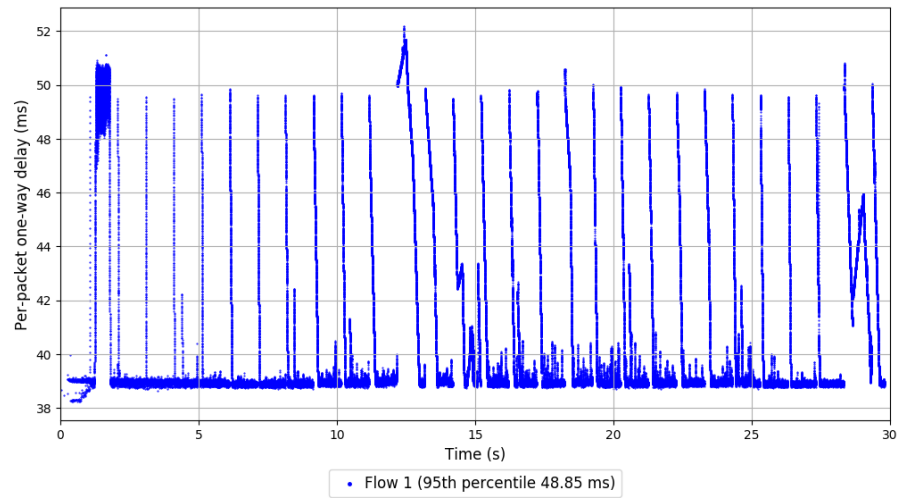
Run 2: Report of PCC — Data Link

Flow 1 ingress (mean 82.74 Mbit/s)   Flow 1 egress (mean 82.68 Mbit/s)

Flow 1 (95th percentile 47.81 ms)

67

```
Run 3: Statistics of PCC

Start at: 2018-02-04 05:00:32
End at: 2018-02-04 05:01:02
Local clock offset: -0.132 ms
Remote clock offset: 3.666 ms


# Below is generated by plot.py at 2018-02-04 11:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.38 Mbit/s
95th percentile per-packet one-way delay: 49.416 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 80.38 Mbit/s
95th percentile per-packet one-way delay: 49.416 ms
Loss rate: 0.40%
```
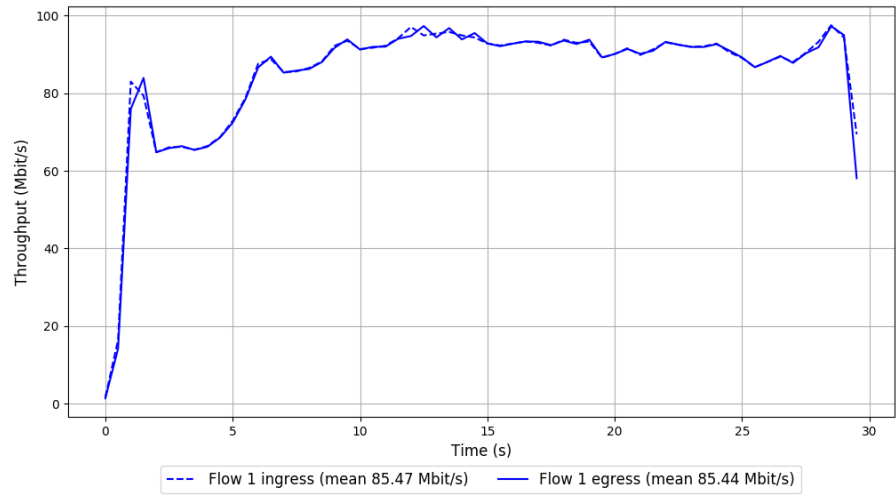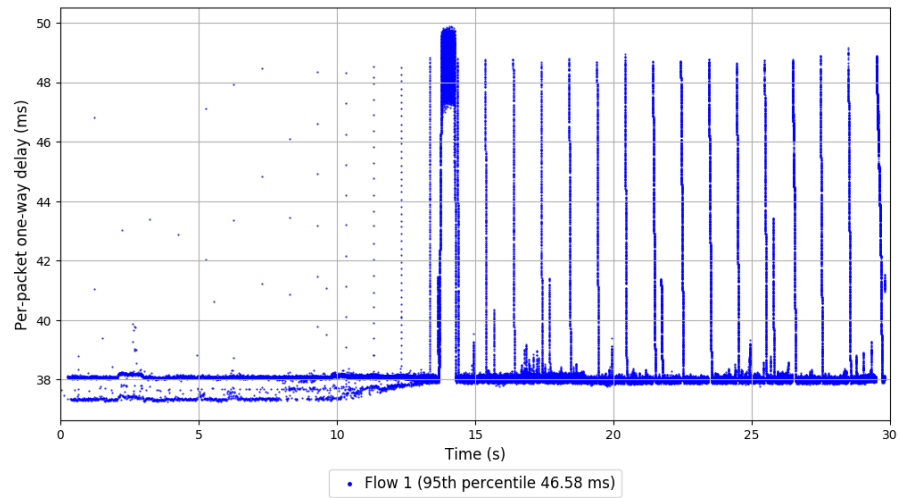
Run 3: Report of PCC — Data Link

Flow 1 ingress (mean 80.43 Mbit/s)   Flow 1 egress (mean 80.38 Mbit/s)

Flow 1 (95th percentile 49.42 ms)

```
Run 4: Statistics of PCC

Start at: 2018-02-04 05:22:18
End at: 2018-02-04 05:22:48
Local clock offset: 0.162 ms
Remote clock offset: 4.589 ms


# Below is generated by plot.py at 2018-02-04 11:56:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.44 Mbit/s
95th percentile per-packet one-way delay: 48.849 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 85.44 Mbit/s
95th percentile per-packet one-way delay: 48.849 ms
Loss rate: 0.38%
```
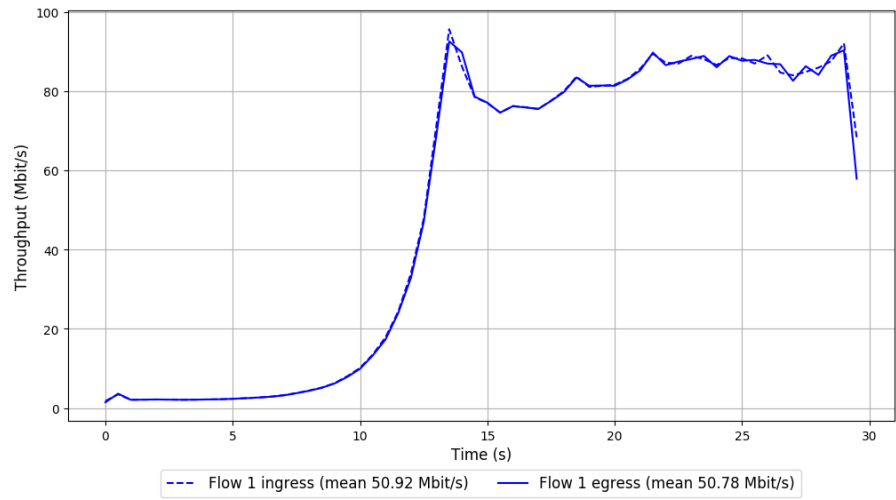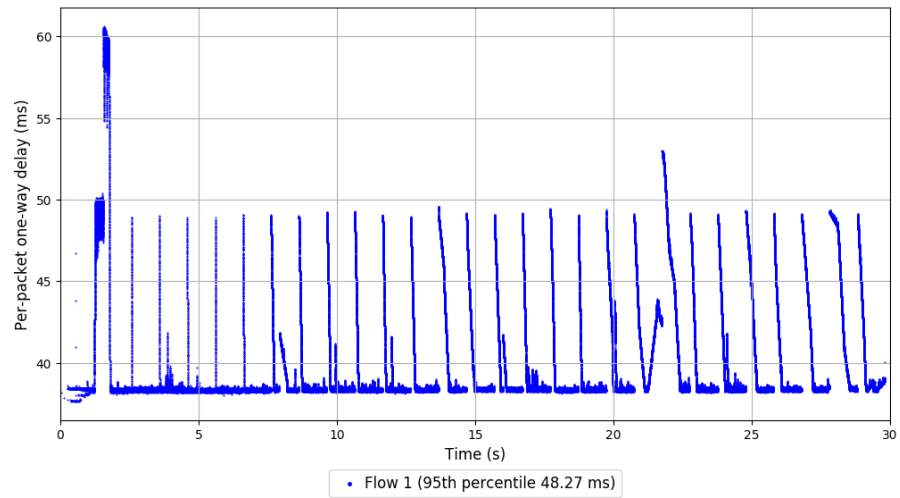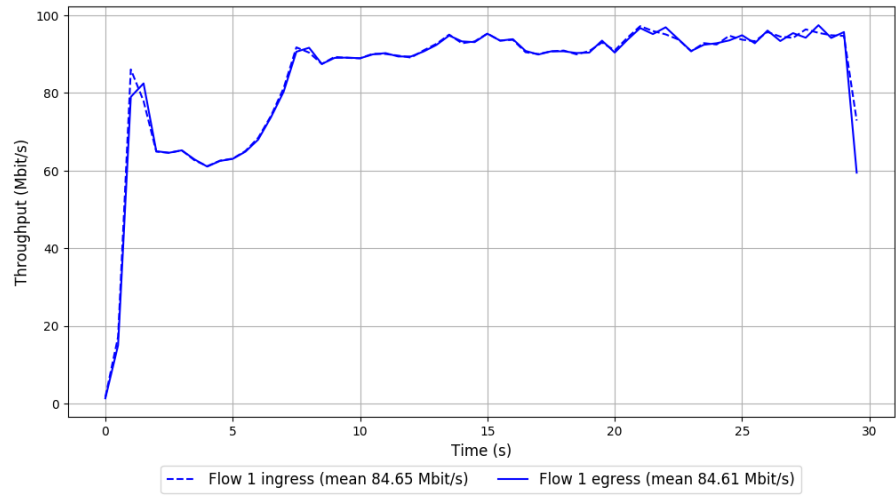
Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 85.47 Mbit/s)   Flow 1 egress (mean 85.44 Mbit/s)

Flow 1 (95th percentile 48.85 ms)

```
Run 5: Statistics of PCC

Start at: 2018-02-04 05:44:05
End at: 2018-02-04 05:44:35
Local clock offset: -0.06 ms
Remote clock offset: 5.699 ms


# Below is generated by plot.py at 2018-02-04 11:56:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.78 Mbit/s
95th percentile per-packet one-way delay: 46.577 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 50.78 Mbit/s
95th percentile per-packet one-way delay: 46.577 ms
Loss rate: 0.63%
```

Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 50.92 Mbit/s)   Flow 1 egress (mean 50.78 Mbit/s)

Flow 1 (95th percentile 46.58 ms)

```
Run 6: Statistics of PCC

Start at: 2018-02-04 06:14:29
End at: 2018-02-04 06:14:59
Local clock offset: 0.745 ms
Remote clock offset: 6.21 ms


# Below is generated by plot.py at 2018-02-04 11:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.61 Mbit/s
95th percentile per-packet one-way delay: 48.270 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 84.61 Mbit/s
95th percentile per-packet one-way delay: 48.270 ms
Loss rate: 0.41%
```
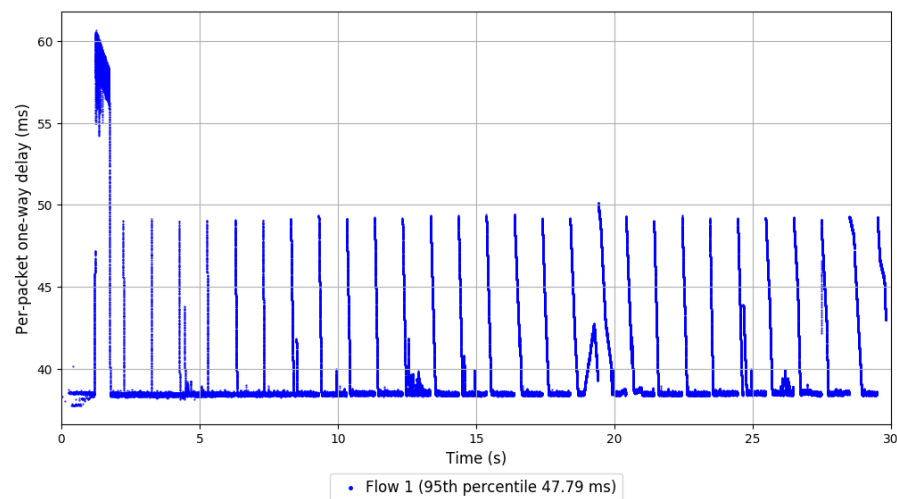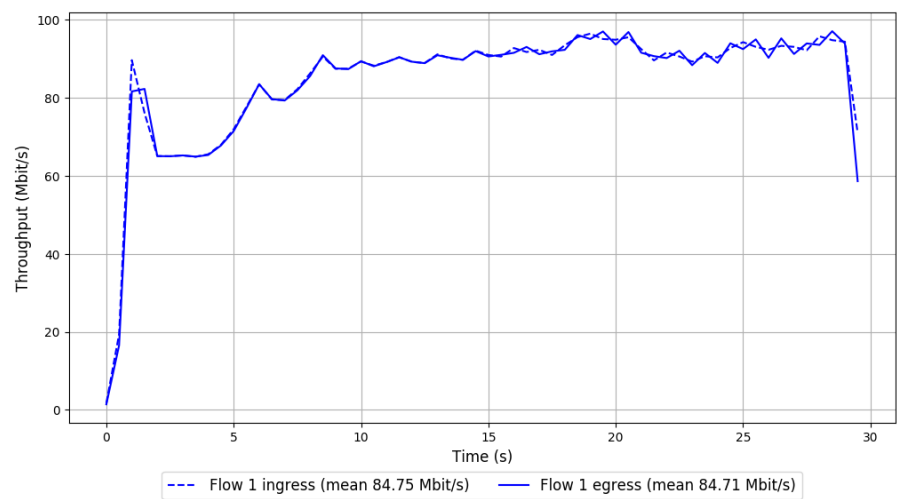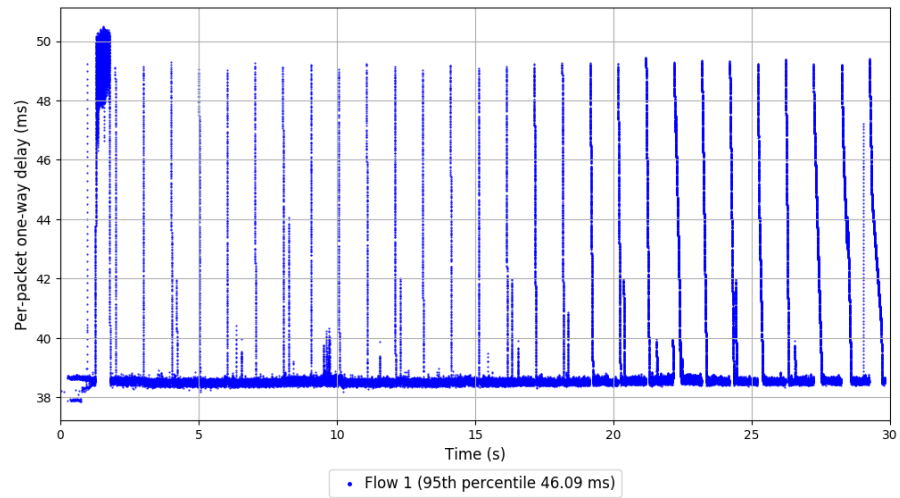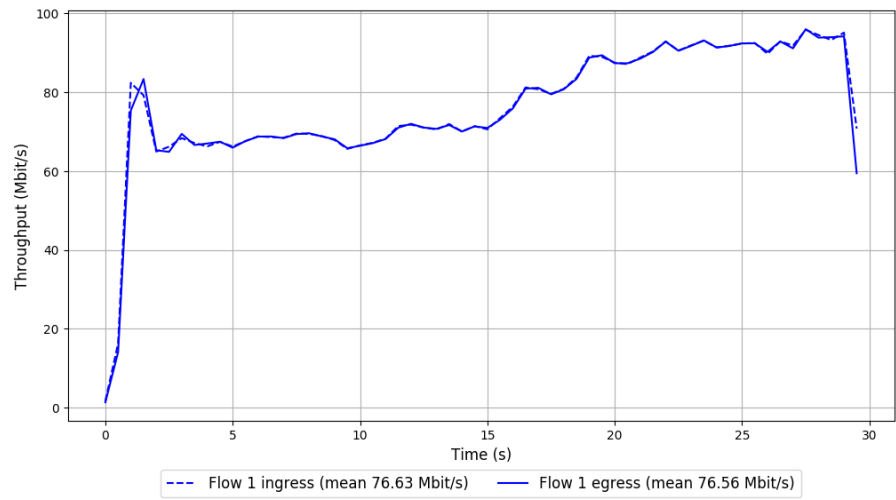
Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 84.65 Mbit/s) — Flow 1 egress (mean 84.61 Mbit/s)

Flow 1 (95th percentile 48.27 ms)

Run 7: Statistics of PCC

/home/ubuntu/pantheon_data/2018-02-04T04-02-China-to-AWS-Korea-10-runs/pcc_stats_run7.log do

Run 7: Report of PCC — Data Link

Figure is missing

Figure is missing

```
Run 8: Statistics of PCC

Start at: 2018-02-04 07:01:32
End at: 2018-02-04 07:02:02
Local clock offset: 1.286 ms
Remote clock offset: 7.489 ms


# Below is generated by plot.py at 2018-02-04 11:56:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 47.794 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 84.71 Mbit/s
95th percentile per-packet one-way delay: 47.794 ms
Loss rate: 0.40%
```
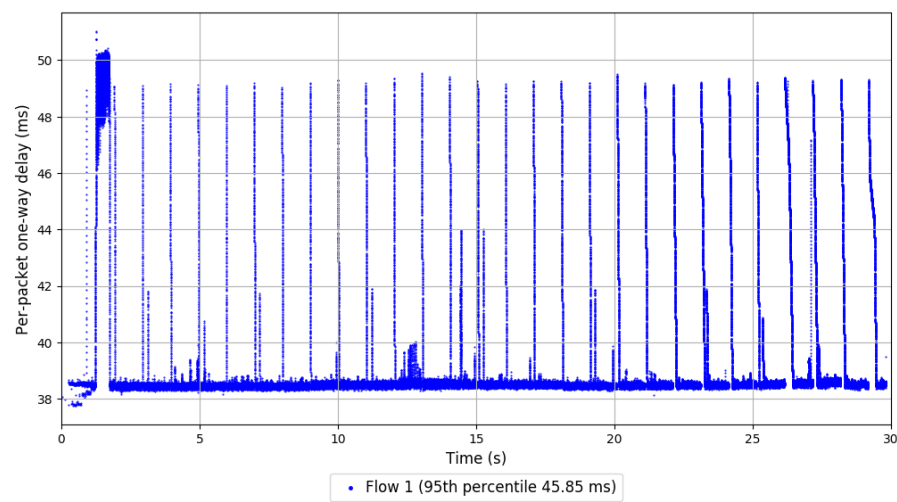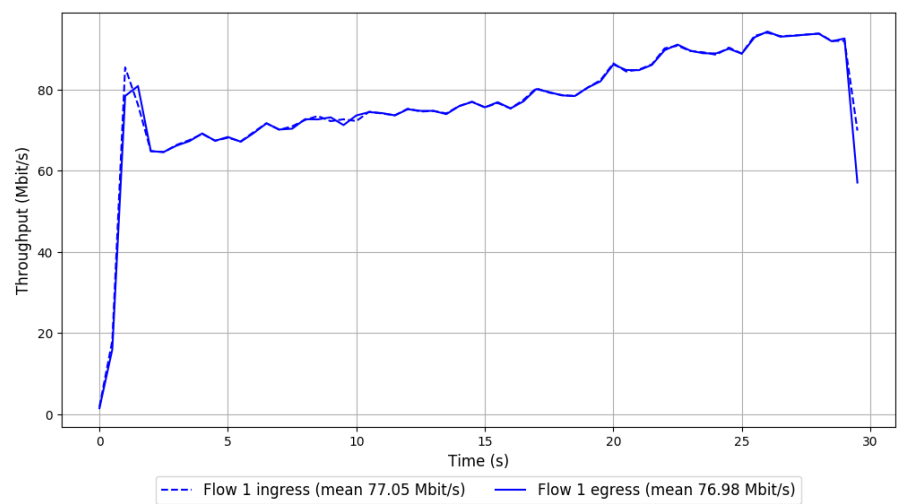
Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 84.75 Mbit/s)   Flow 1 egress (mean 84.71 Mbit/s)

• Flow 1 (95th percentile 47.79 ms)

```
Run 9: Statistics of PCC

Start at: 2018-02-04 07:23:22
End at: 2018-02-04 07:23:52
Local clock offset: 1.346 ms
Remote clock offset: 8.623 ms


# Below is generated by plot.py at 2018-02-04 11:56:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 46.087 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 76.56 Mbit/s
95th percentile per-packet one-way delay: 46.087 ms
Loss rate: 0.43%
```
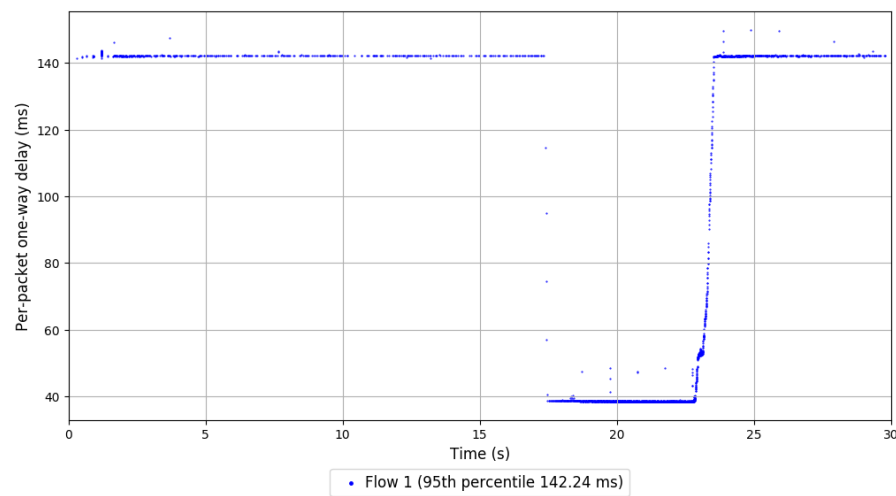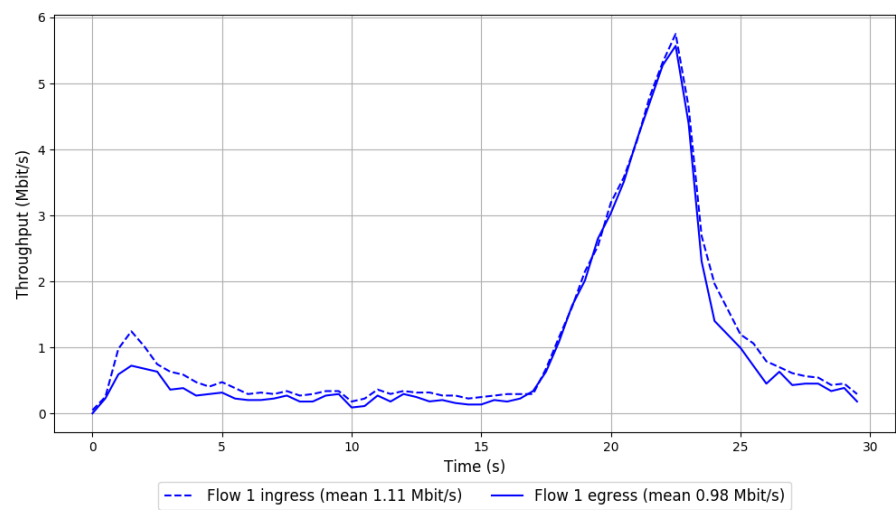
Run 9: Report of PCC — Data Link

Flow 1 ingress (mean 76.63 Mbit/s) --- Flow 1 egress (mean 76.56 Mbit/s)

Flow 1 (95th percentile 46.09 ms)

```
Run 10: Statistics of PCC

Start at: 2018-02-04 07:45:08
End at: 2018-02-04 07:45:38
Local clock offset: 0.917 ms
Remote clock offset: 9.932 ms


# Below is generated by plot.py at 2018-02-04 11:57:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 45.853 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 76.98 Mbit/s
95th percentile per-packet one-way delay: 45.853 ms
Loss rate: 0.43%
```
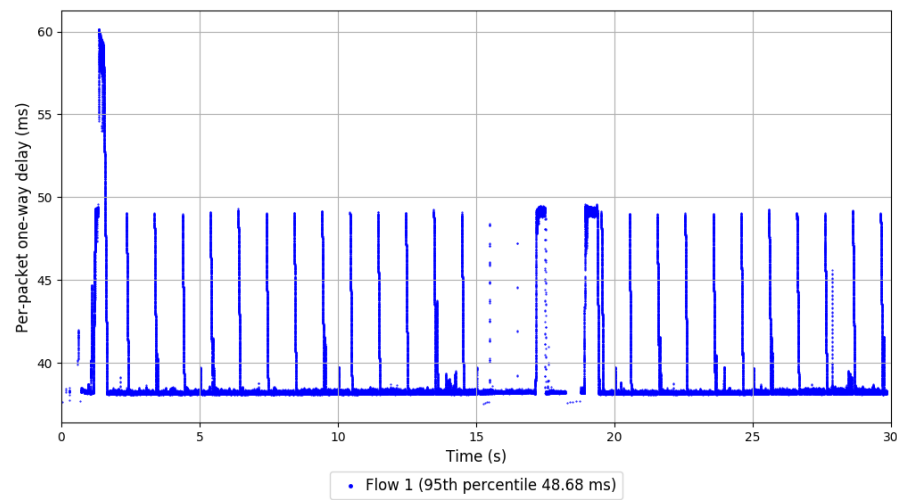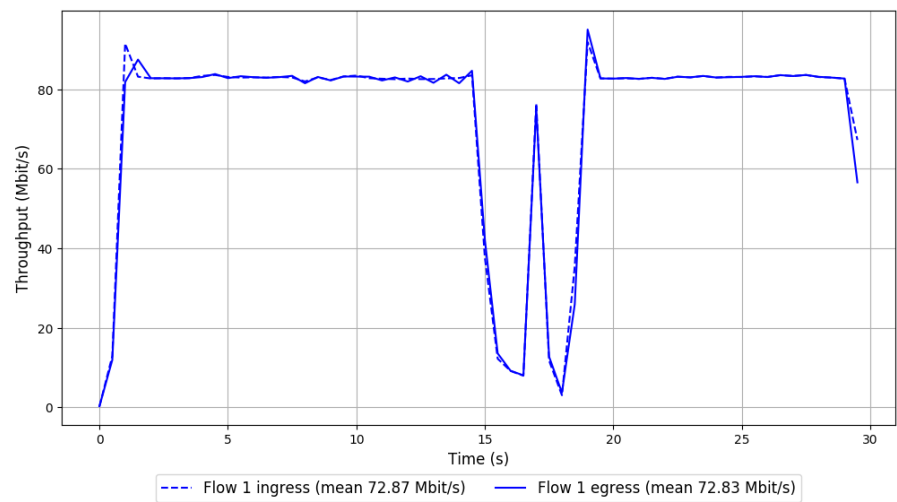
Run 10: Report of PCC — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-04 04:26:24
End at: 2018-02-04 04:26:54
Local clock offset: -0.814 ms
Remote clock offset: 2.391 ms


# Below is generated by plot.py at 2018-02-04 11:57:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 142.240 ms
Loss rate: 12.45%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 142.240 ms
Loss rate: 12.45%
```
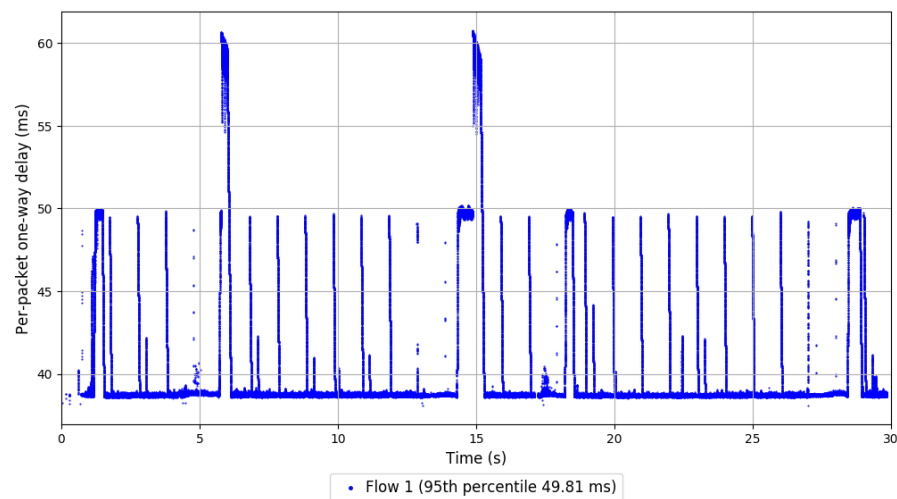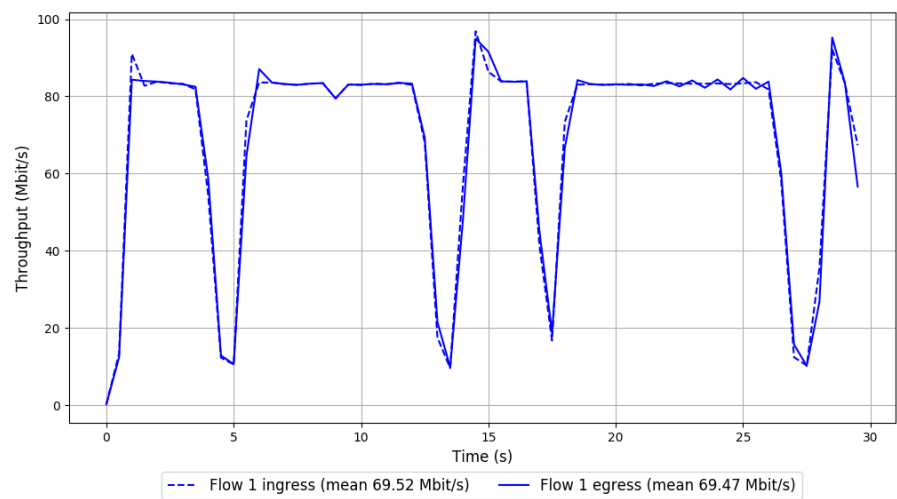
Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 1.11 Mbit/s) — — —   Flow 1 egress (mean 0.98 Mbit/s) ———

• Flow 1 (95th percentile 142.24 ms)

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-04 04:48:25
End at: 2018-02-04 04:48:55
Local clock offset: -0.078 ms
Remote clock offset: 3.21 ms


# Below is generated by plot.py at 2018-02-04 11:57:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.83 Mbit/s
95th percentile per-packet one-way delay: 48.677 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 72.83 Mbit/s
95th percentile per-packet one-way delay: 48.677 ms
Loss rate: 0.39%
```
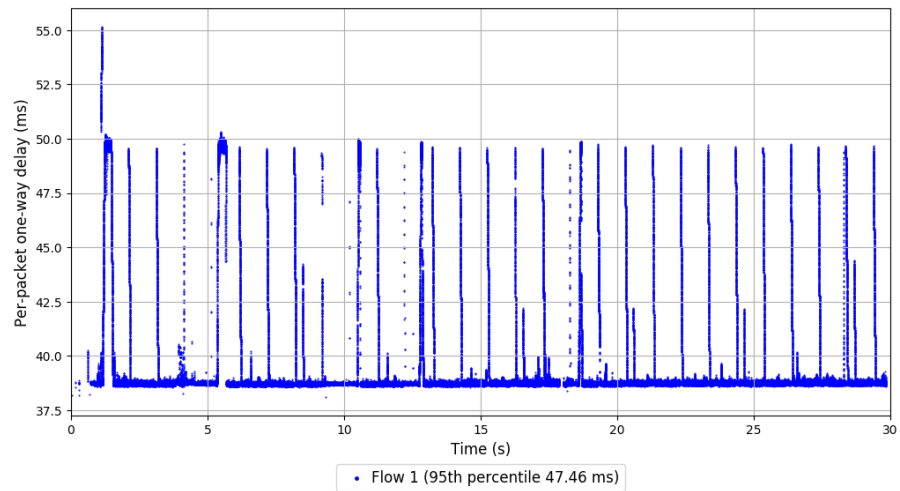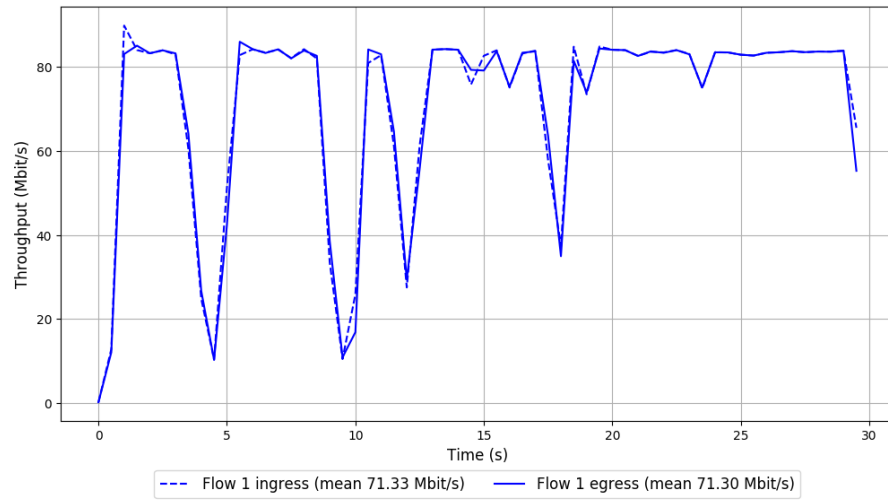
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 72.87 Mbit/s)   Flow 1 egress (mean 72.83 Mbit/s)

Flow 1 (95th percentile 48.68 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-02-04 05:10:12
End at: 2018-02-04 05:10:42
Local clock offset: 0.162 ms
Remote clock offset: 4.112 ms


# Below is generated by plot.py at 2018-02-04 11:57:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.47 Mbit/s
95th percentile per-packet one-way delay: 49.808 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 69.47 Mbit/s
95th percentile per-packet one-way delay: 49.808 ms
Loss rate: 0.41%
```
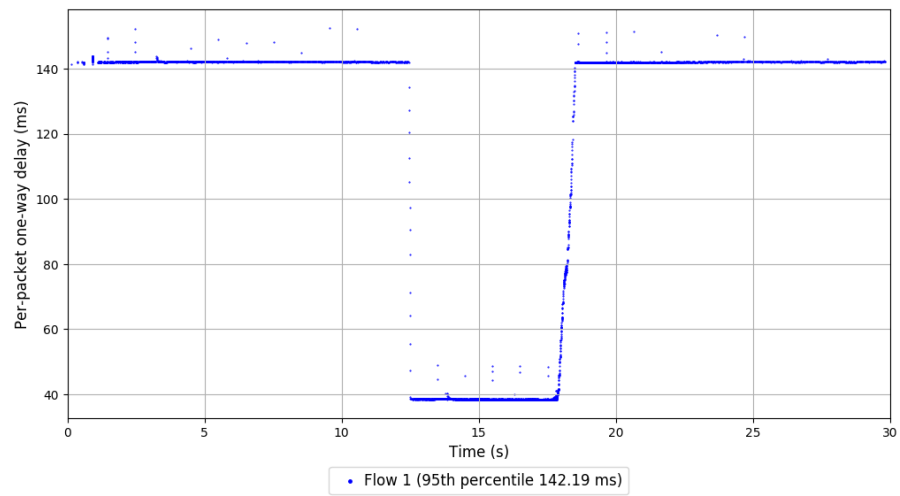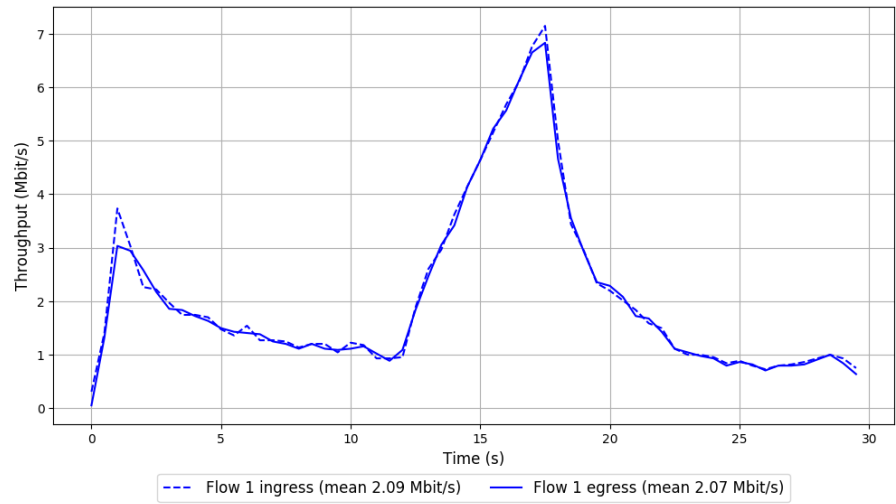
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 69.52 Mbit/s)   Flow 1 egress (mean 69.47 Mbit/s)

• Flow 1 (95th percentile 49.81 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-02-04 05:31:55
End at: 2018-02-04 05:32:25
Local clock offset: 0.107 ms
Remote clock offset: 5.098 ms


# Below is generated by plot.py at 2018-02-04 11:57:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.30 Mbit/s
95th percentile per-packet one-way delay: 47.464 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 71.30 Mbit/s
95th percentile per-packet one-way delay: 47.464 ms
Loss rate: 0.39%
```
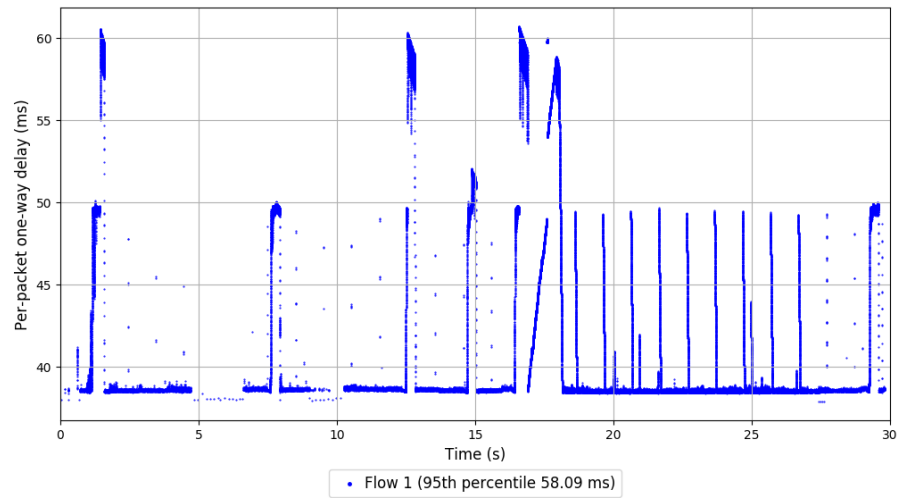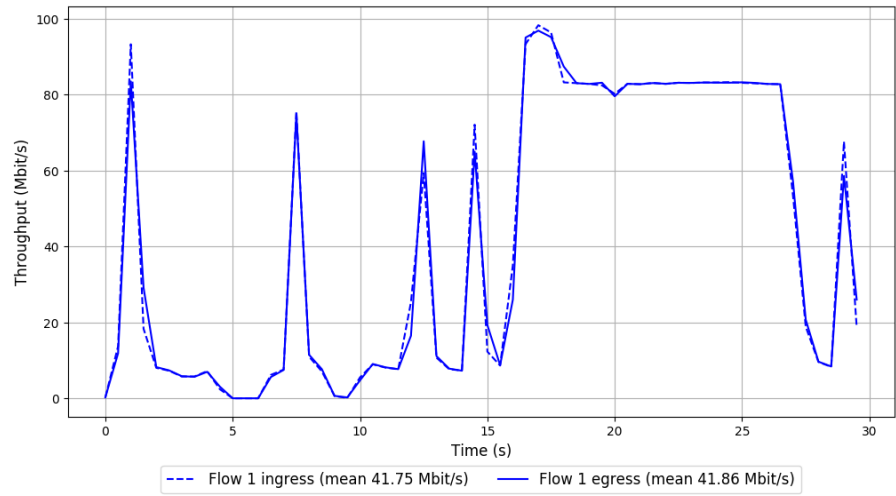
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 71.33 Mbit/s)   Flow 1 egress (mean 71.30 Mbit/s)

Flow 1 (95th percentile 47.46 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-02-04 05:58:30
End at: 2018-02-04 05:59:00
Local clock offset: 0.624 ms
Remote clock offset: 6.151 ms


# Below is generated by plot.py at 2018-02-04 11:57:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 142.187 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 142.187 ms
Loss rate: 1.81%
```
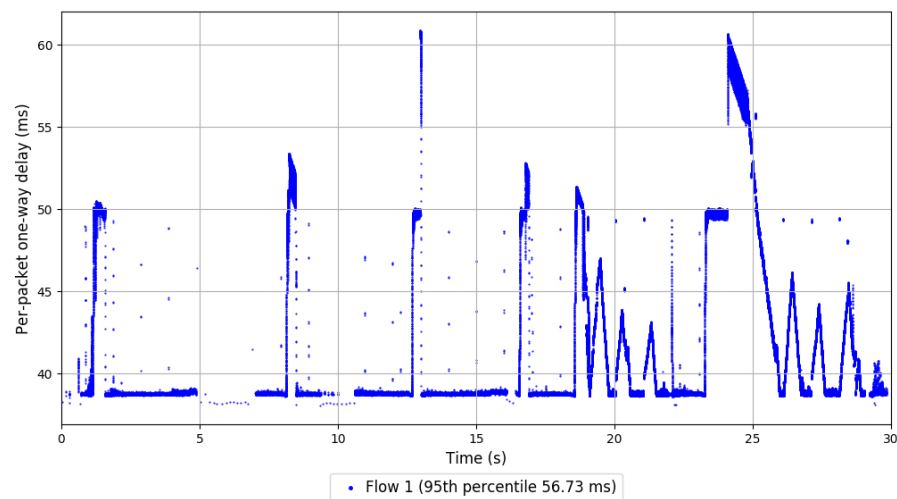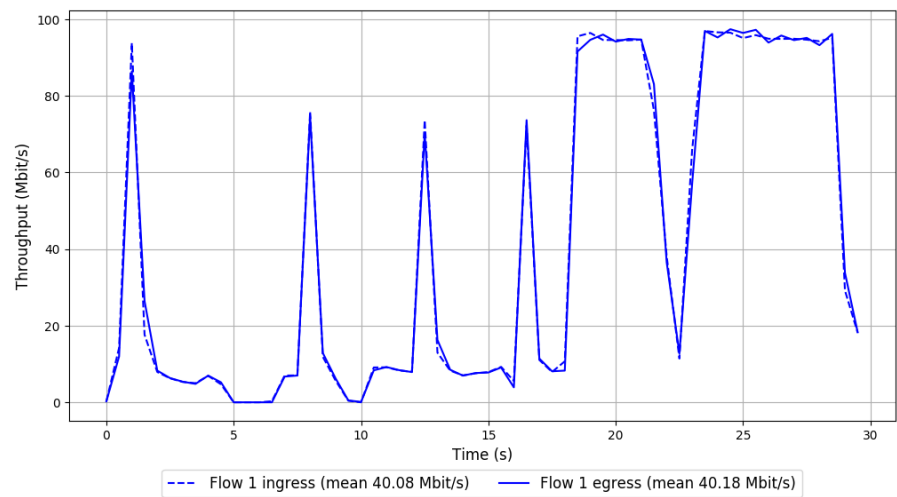
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 2.09 Mbit/s) — — —   Flow 1 egress (mean 2.07 Mbit/s) ———

Flow 1 (95th percentile 142.19 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-02-04 06:24:10
End at: 2018-02-04 06:24:40
Local clock offset: 0.943 ms
Remote clock offset: 6.444 ms


# Below is generated by plot.py at 2018-02-04 11:57:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.86 Mbit/s
95th percentile per-packet one-way delay: 58.092 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 41.86 Mbit/s
95th percentile per-packet one-way delay: 58.092 ms
Loss rate: 0.10%
```
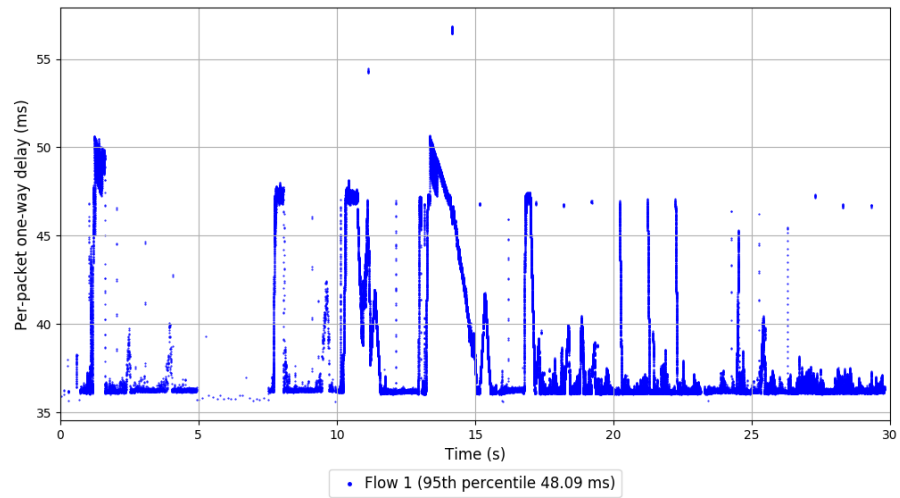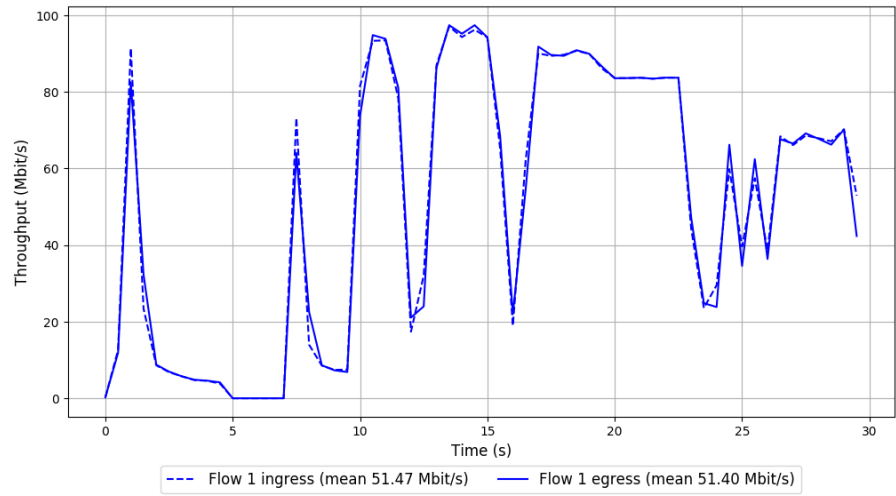
Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 41.75 Mbit/s)   Flow 1 egress (mean 41.86 Mbit/s)

Flow 1 (95th percentile 58.09 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-02-04 06:47:36
End at: 2018-02-04 06:48:06
Local clock offset: 1.506 ms
Remote clock offset: 7.092 ms


# Below is generated by plot.py at 2018-02-04 11:57:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 56.733 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 40.18 Mbit/s
95th percentile per-packet one-way delay: 56.733 ms
Loss rate: 0.11%
```
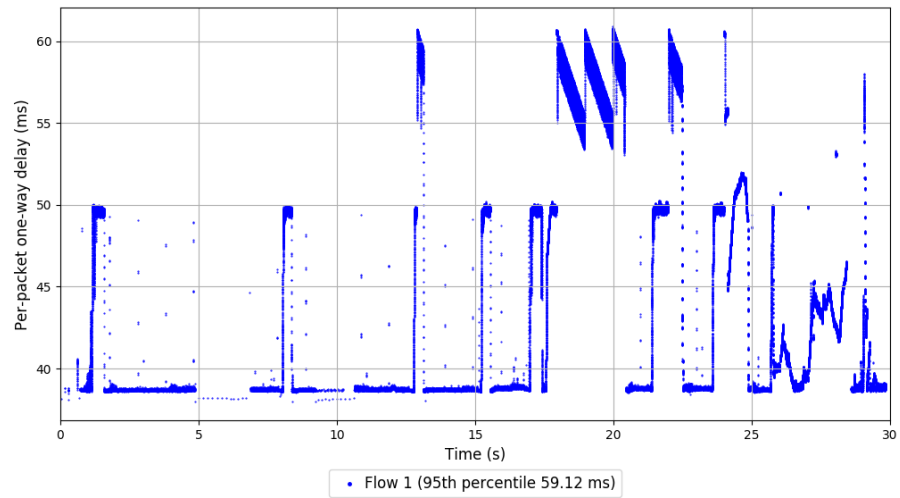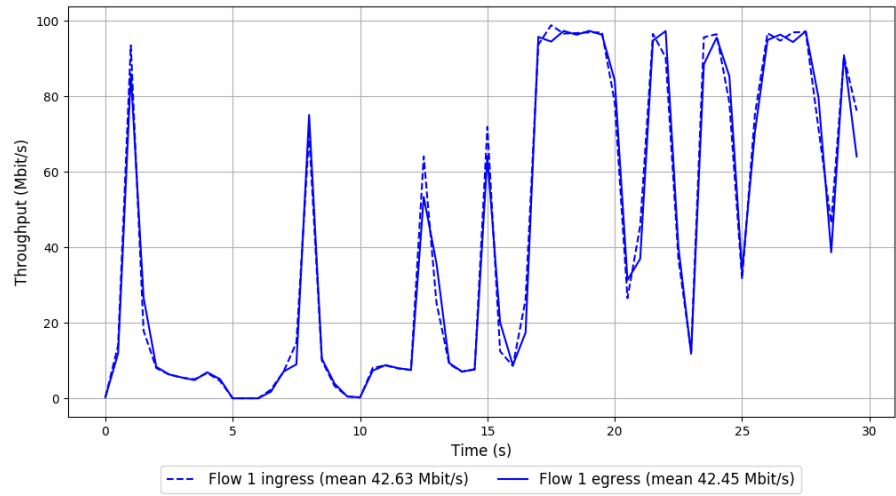
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 40.08 Mbit/s)　　　Flow 1 egress (mean 40.18 Mbit/s)

Flow 1 (95th percentile 56.73 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-02-04 07:11:13
End at: 2018-02-04 07:11:43
Local clock offset: -1.502 ms
Remote clock offset: 7.932 ms


# Below is generated by plot.py at 2018-02-04 11:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.40 Mbit/s
95th percentile per-packet one-way delay: 48.085 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 51.40 Mbit/s
95th percentile per-packet one-way delay: 48.085 ms
Loss rate: 0.49%
```
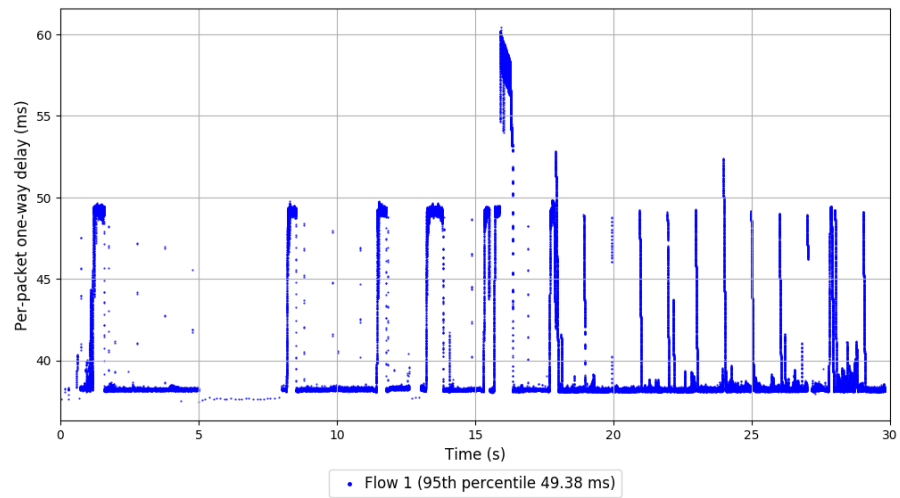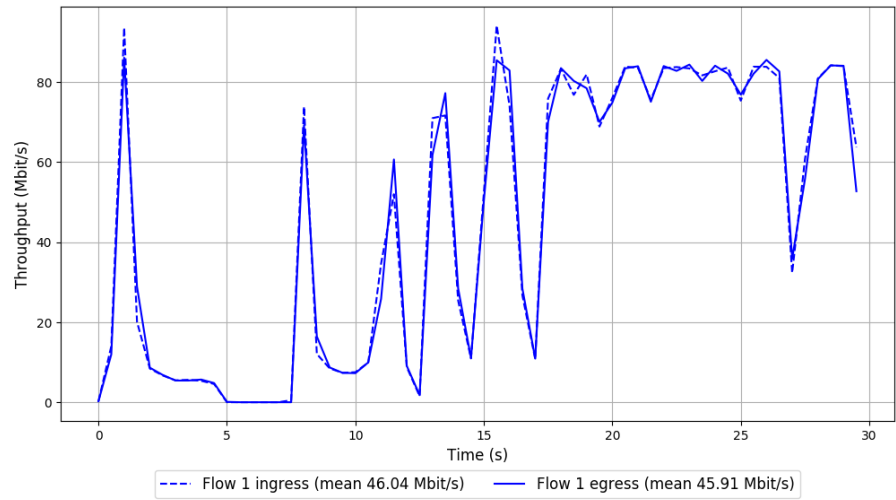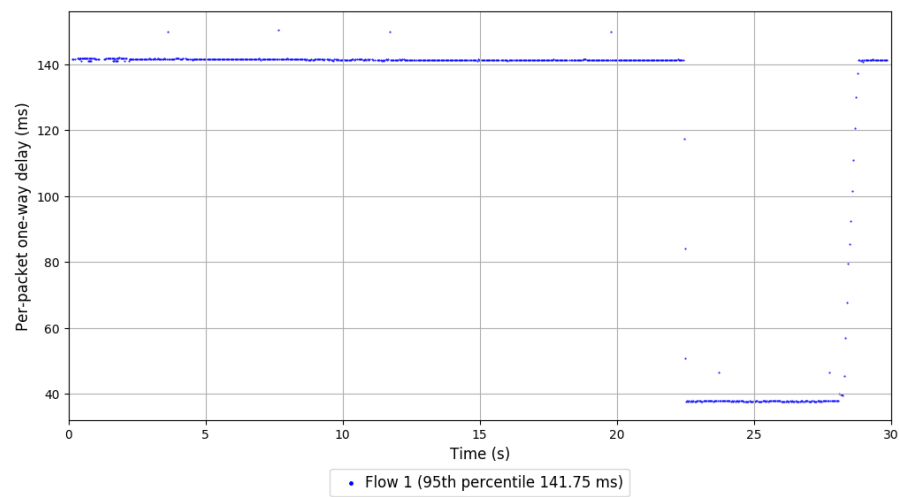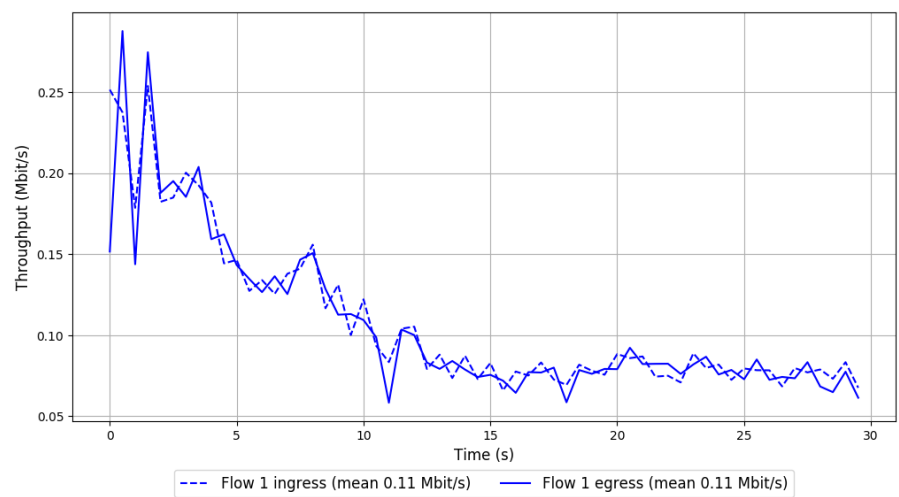
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 51.47 Mbit/s)   Flow 1 egress (mean 51.40 Mbit/s)

Flow 1 (95th percentile 48.09 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-02-04 07:33:00
End at: 2018-02-04 07:33:31
Local clock offset: 1.193 ms
Remote clock offset: 9.29 ms


# Below is generated by plot.py at 2018-02-04 11:57:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: 59.119 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 42.45 Mbit/s
95th percentile per-packet one-way delay: 59.119 ms
Loss rate: 0.77%
```

Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 42.63 Mbit/s)   —— Flow 1 egress (mean 42.45 Mbit/s)

• Flow 1 (95th percentile 59.12 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-04 07:54:46
End at: 2018-02-04 07:55:16
Local clock offset: 0.446 ms
Remote clock offset: 10.306 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 49.384 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 45.91 Mbit/s
95th percentile per-packet one-way delay: 49.384 ms
Loss rate: 0.63%
```
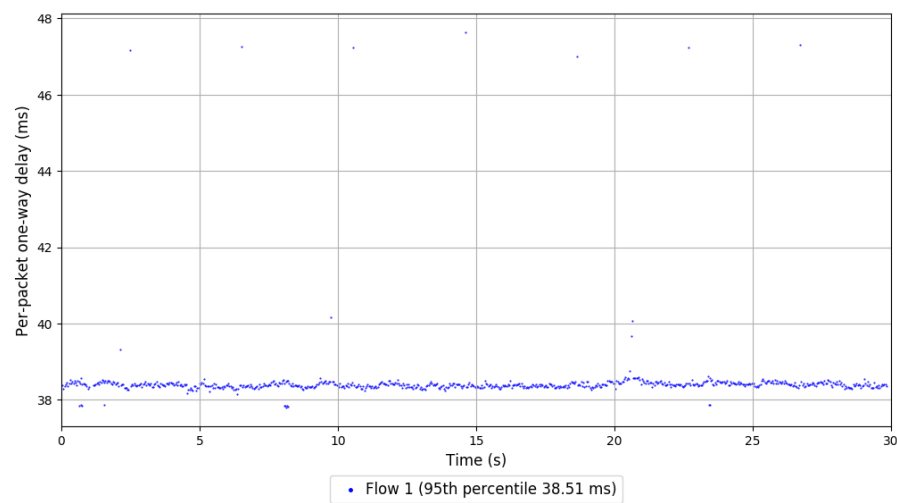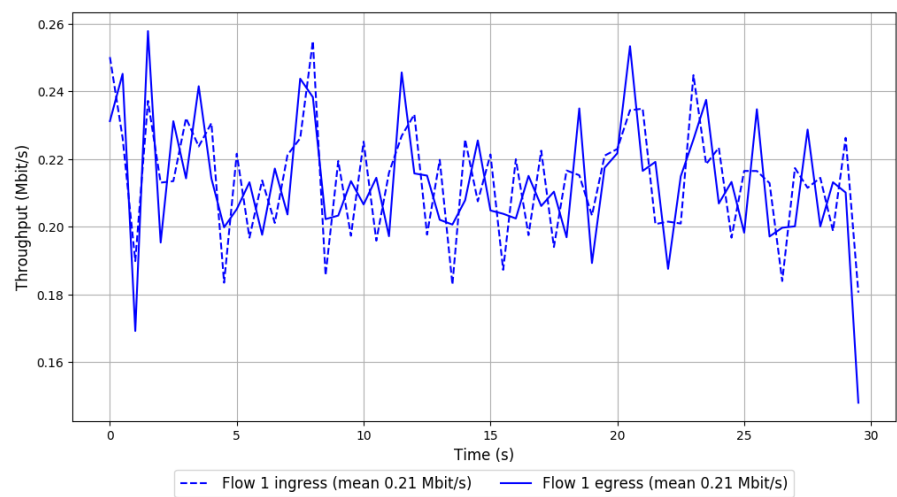
Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 46.04 Mbit/s) — Flow 1 egress (mean 45.91 Mbit/s)

• Flow 1 (95th percentile 49.38 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-02-04 04:05:17
End at: 2018-02-04 04:05:47
Local clock offset: -0.805 ms
Remote clock offset: 1.905 ms

# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 141.750 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 141.750 ms
Loss rate: 2.07%
```

Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2018-02-04 04:33:55
End at: 2018-02-04 04:34:25
Local clock offset: -0.106 ms
Remote clock offset: 2.675 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.512 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.512 ms
Loss rate: 0.38%
```
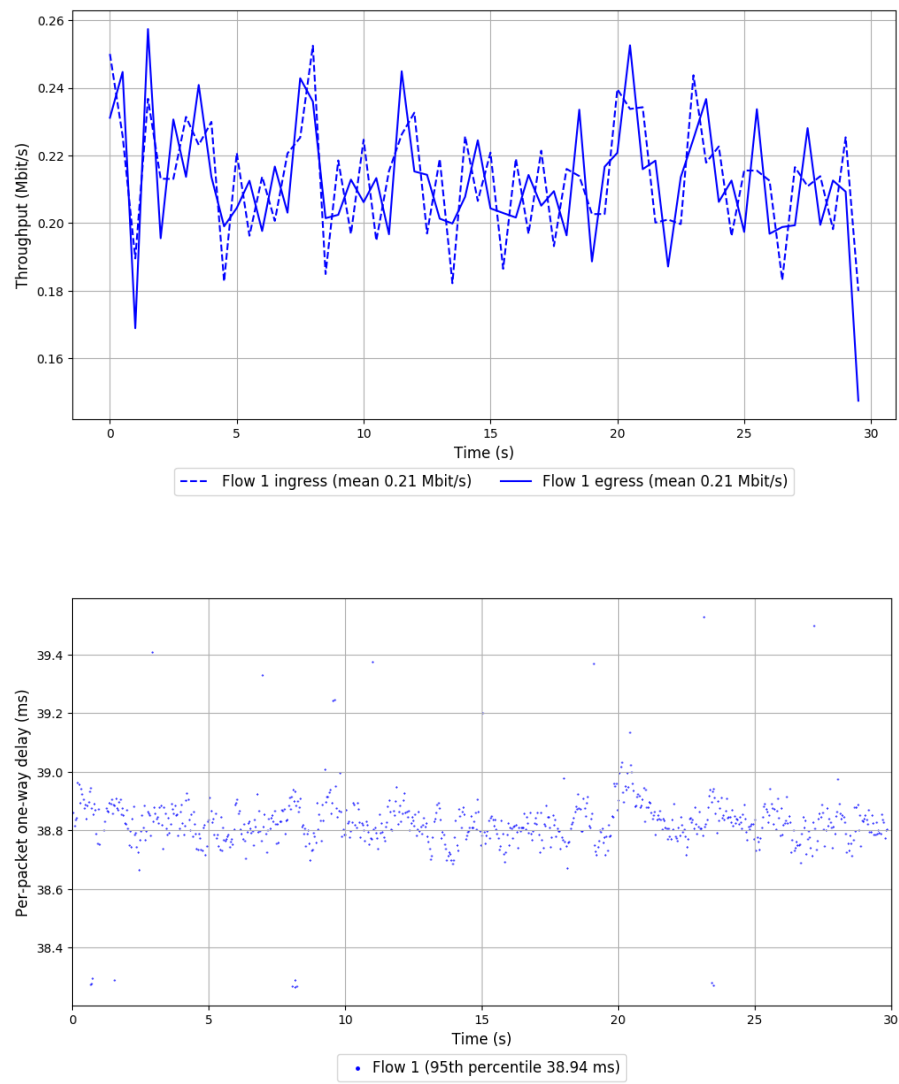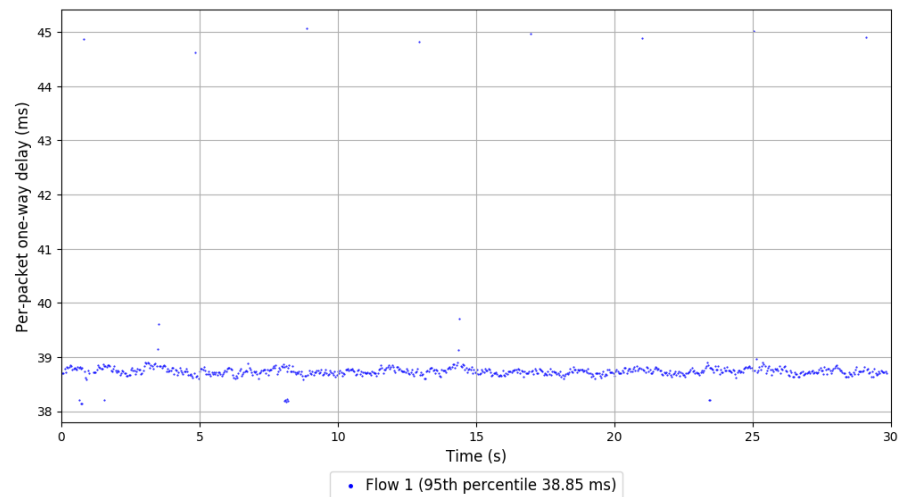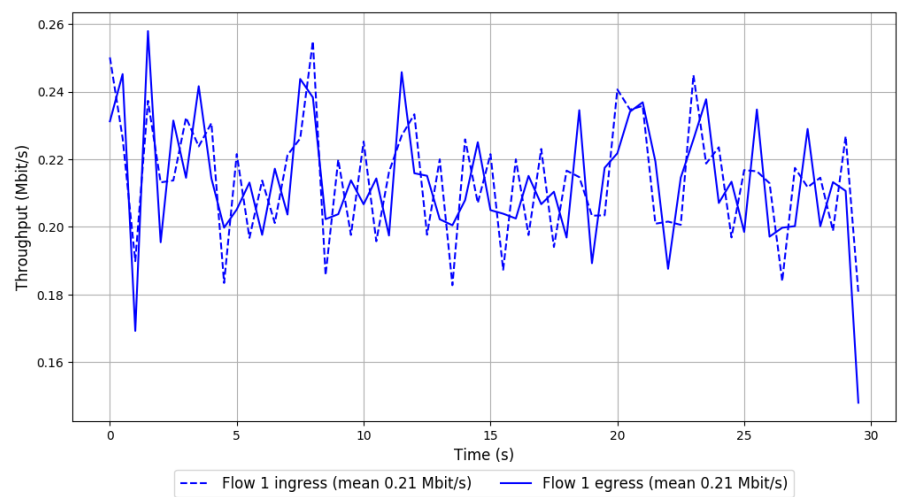
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2018-02-04 04:55:43
End at: 2018-02-04 04:56:13
Local clock offset: -0.128 ms
Remote clock offset: 3.464 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.939 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.939 ms
Loss rate: 0.38%
```
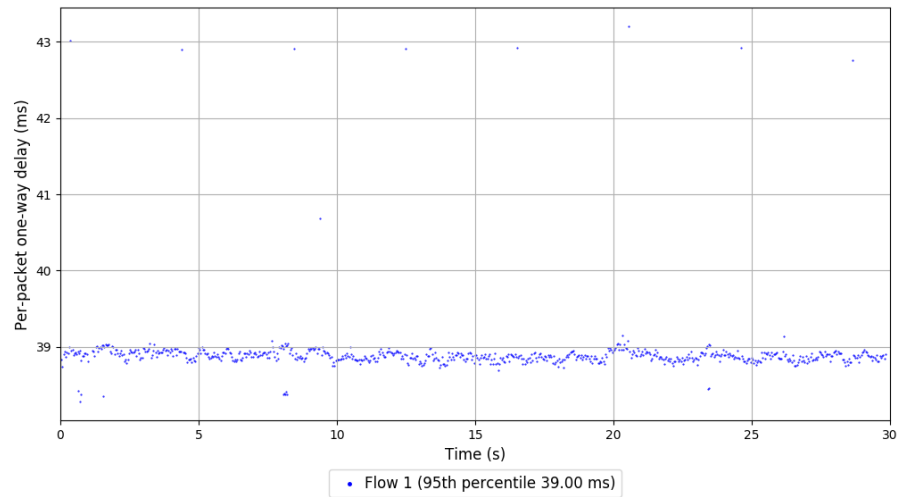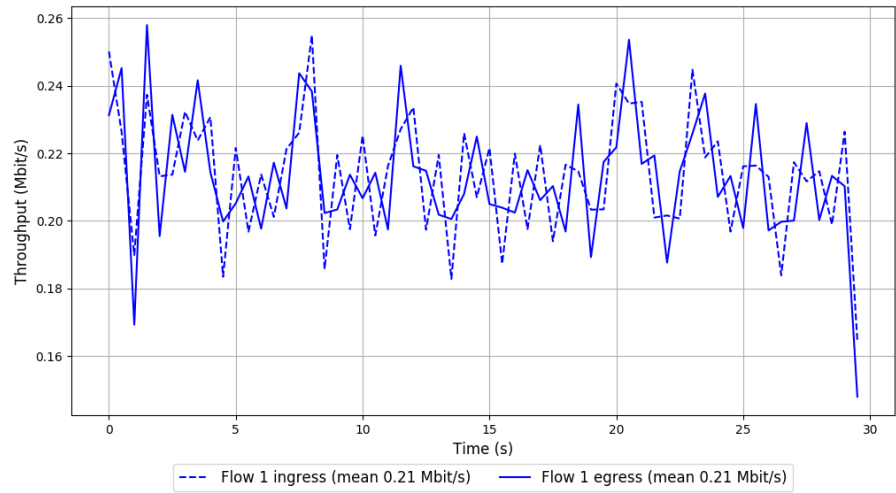
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2018-02-04 05:17:30
End at: 2018-02-04 05:18:00
Local clock offset: 0.221 ms
Remote clock offset: 4.405 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.847 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.847 ms
Loss rate: 0.38%
```
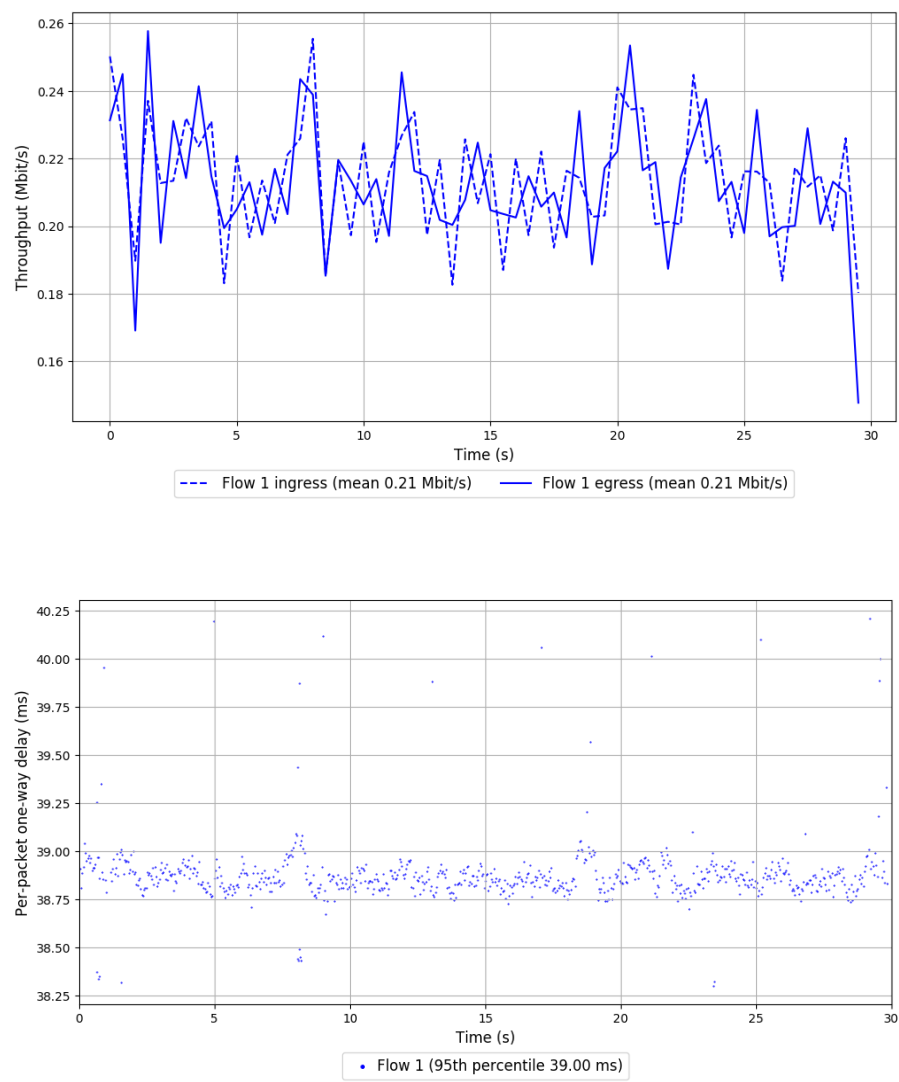
Run 4: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 38.85 ms)

```
Run 5: Statistics of SCReAM

Start at: 2018-02-04 05:39:14
End at: 2018-02-04 05:39:44
Local clock offset: 0.645 ms
Remote clock offset: 5.422 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.998 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.998 ms
Loss rate: 0.25%
```
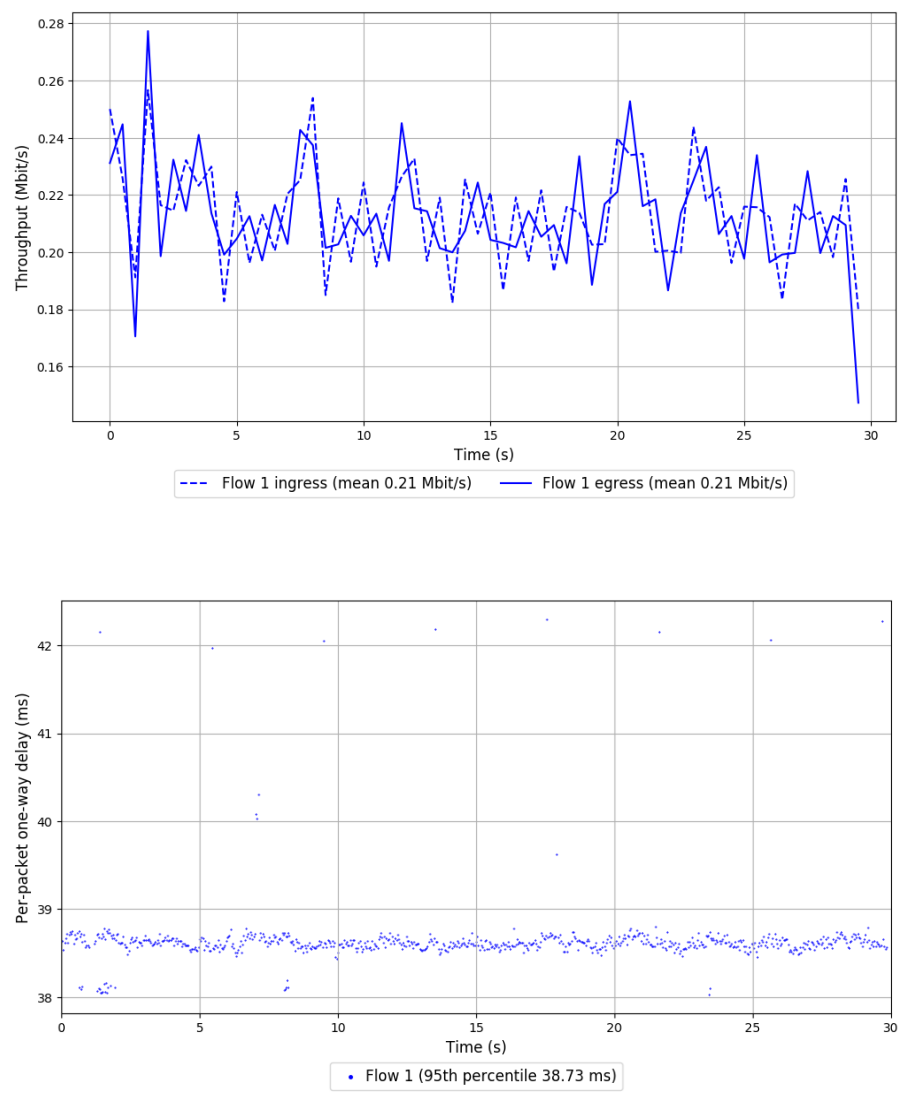
Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2018-02-04 06:09:39
End at: 2018-02-04 06:10:09
Local clock offset: 0.819 ms
Remote clock offset: 6.158 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.003 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.003 ms
Loss rate: 0.38%
```
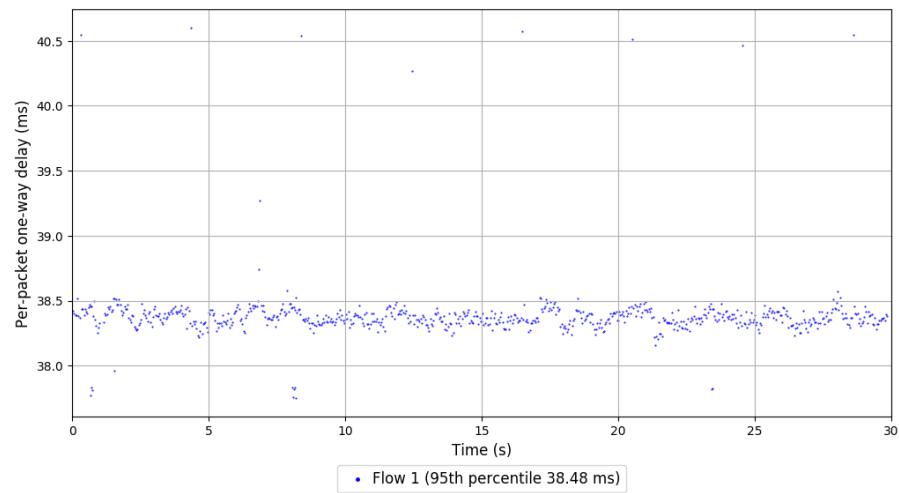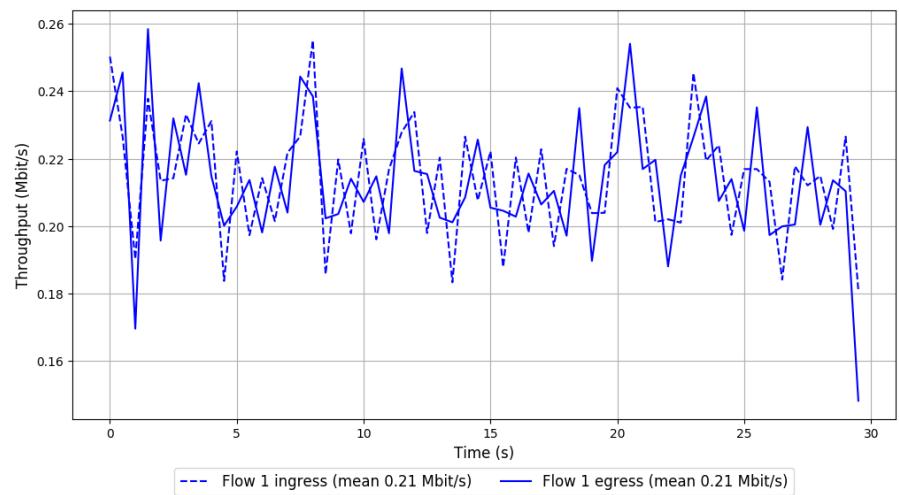
Run 6: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 39.00 ms)

```
Run 7: Statistics of SCReAM

Start at: 2018-02-04 06:31:27
End at: 2018-02-04 06:31:57
Local clock offset: 1.096 ms
Remote clock offset: 6.701 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.730 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.730 ms
Loss rate: 0.38%
```
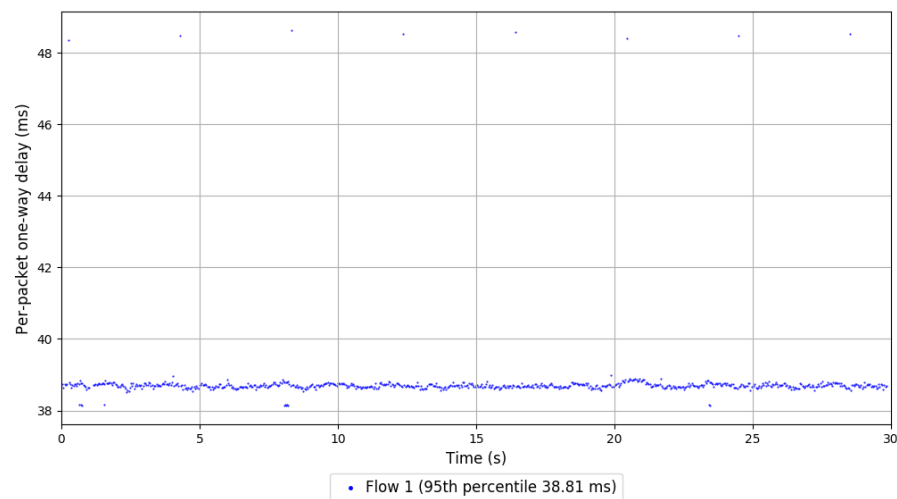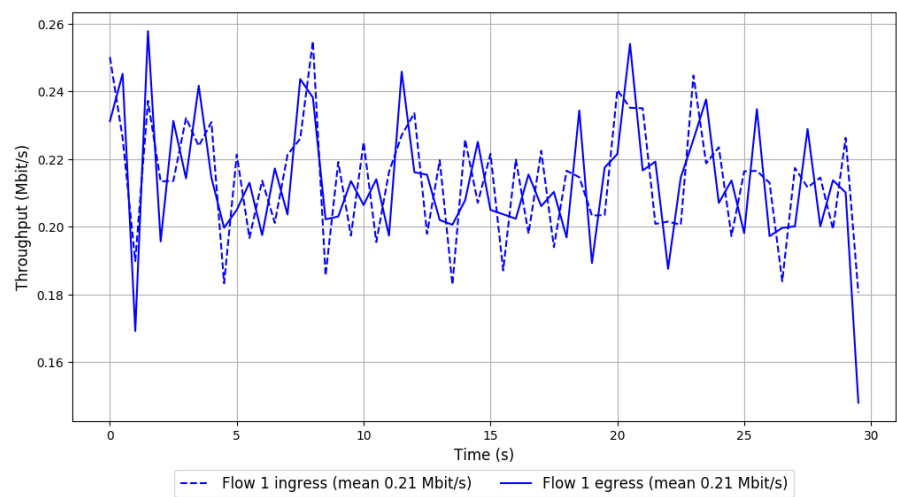
Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: 2018-02-04 06:56:41
End at: 2018-02-04 06:57:11
Local clock offset: 1.373 ms
Remote clock offset: 7.281 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.476 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.476 ms
Loss rate: 0.38%
```
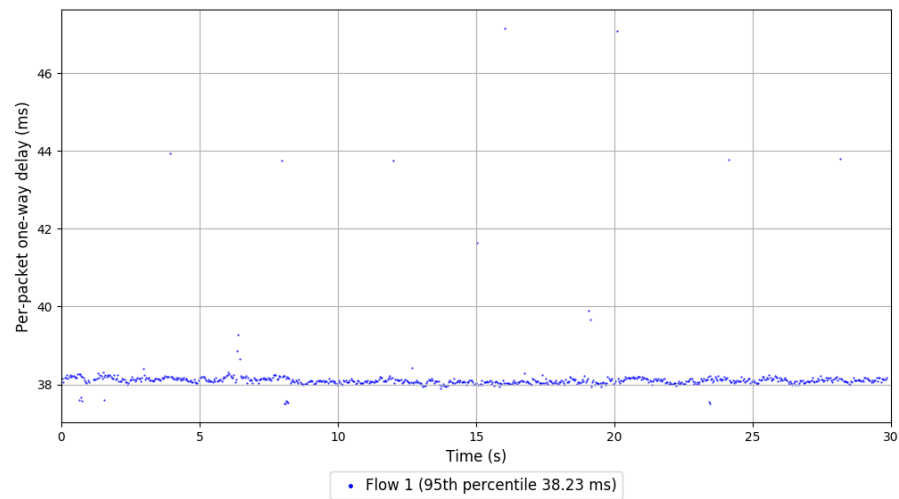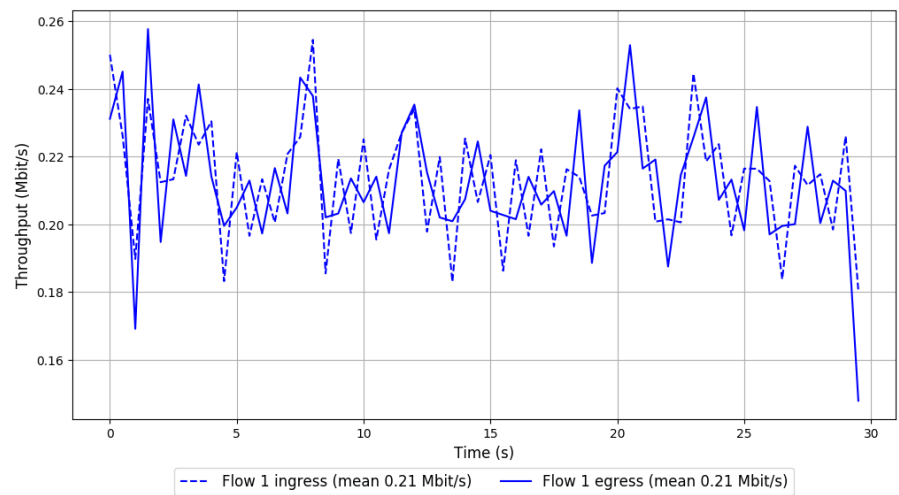
Run 8: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 38.48 ms)

```
Run 9: Statistics of SCReAM

Start at: 2018-02-04 07:18:30
End at: 2018-02-04 07:19:01
Local clock offset: 1.355 ms
Remote clock offset: 8.327 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.806 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.806 ms
Loss rate: 0.38%
```
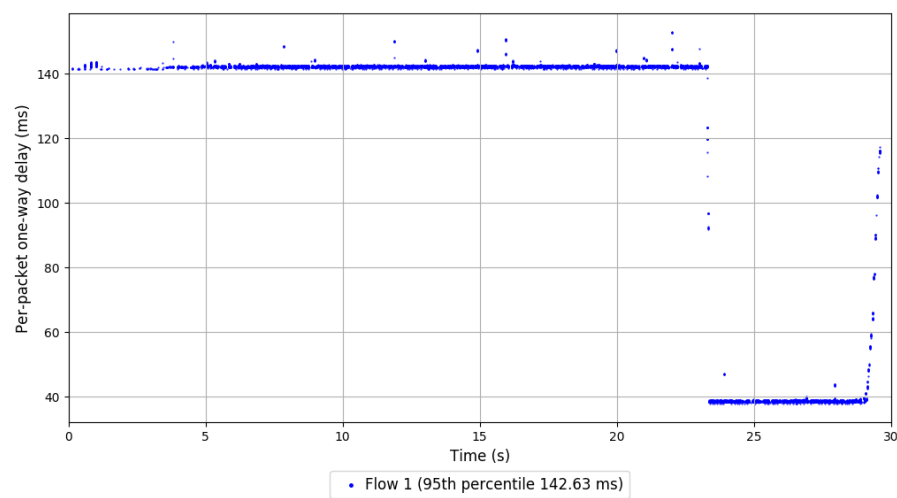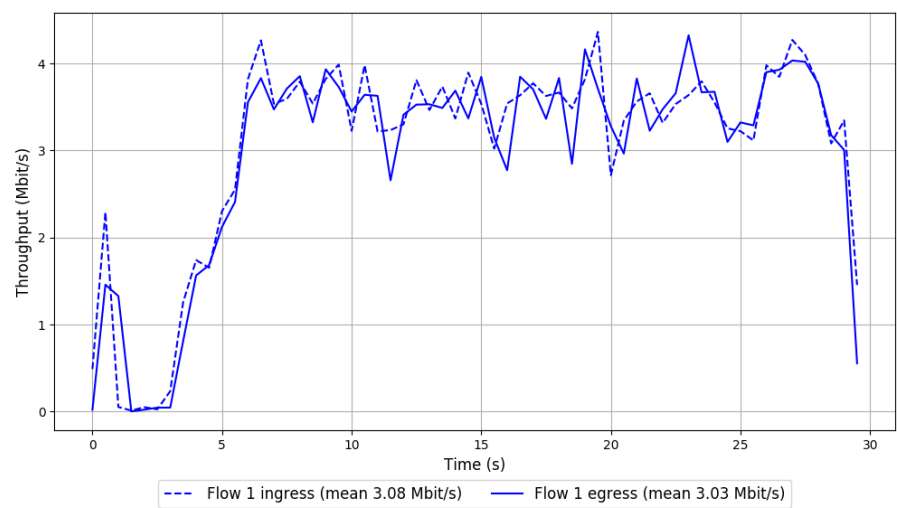
Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2018-02-04 07:40:18
End at: 2018-02-04 07:40:48
Local clock offset: 0.508 ms
Remote clock offset: 9.874 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.234 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.234 ms
Loss rate: 0.38%
```
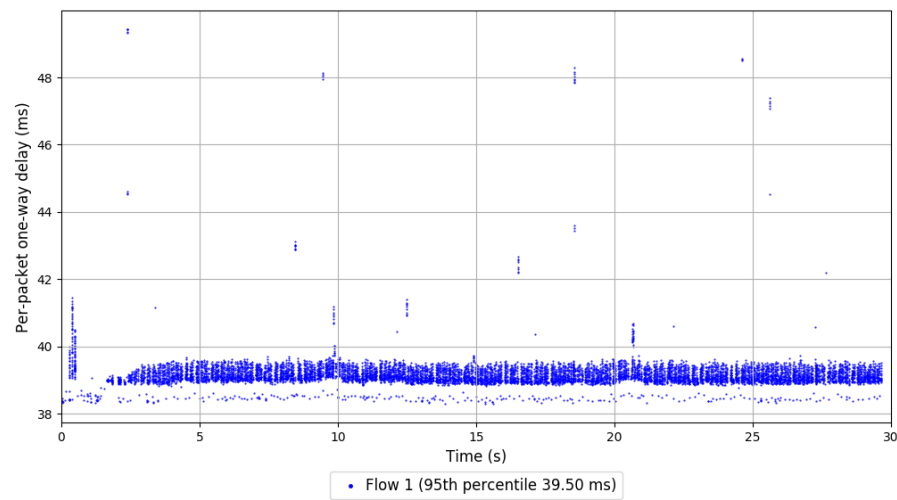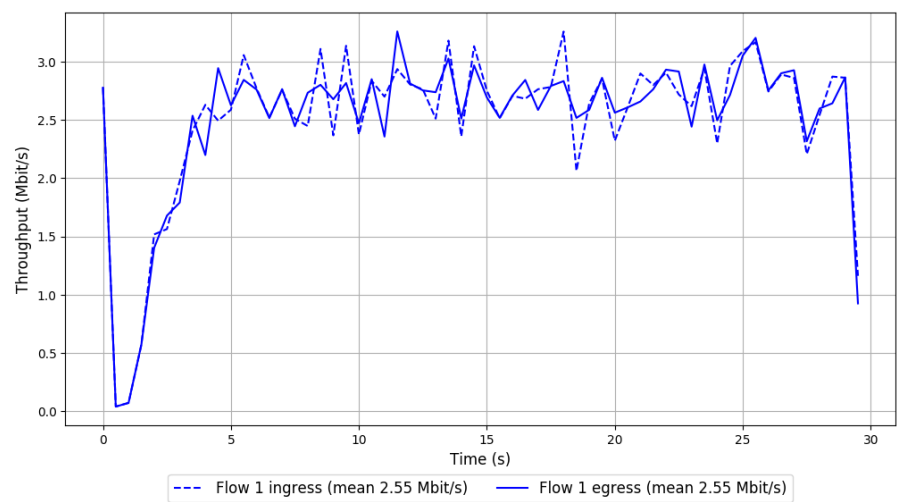
Run 10: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 38.23 ms)

123

```
Run 1: Statistics of WebRTC media

Start at: 2018-02-04 04:16:22
End at: 2018-02-04 04:16:52
Local clock offset: -0.601 ms
Remote clock offset: 2.094 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 142.631 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 3.03 Mbit/s
95th percentile per-packet one-way delay: 142.631 ms
Loss rate: 2.47%
```

Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-02-04 04:41:10
End at: 2018-02-04 04:41:40
Local clock offset: -0.047 ms
Remote clock offset: 2.882 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 39.503 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 39.503 ms
Loss rate: 0.31%
```
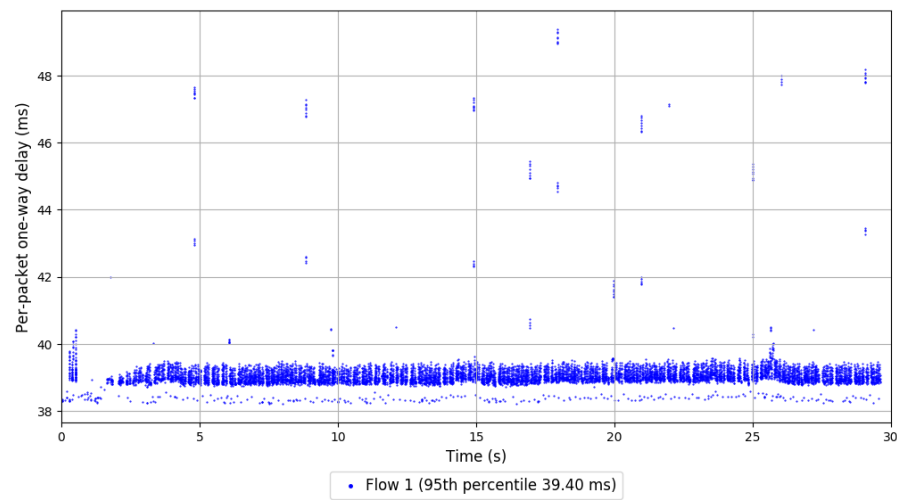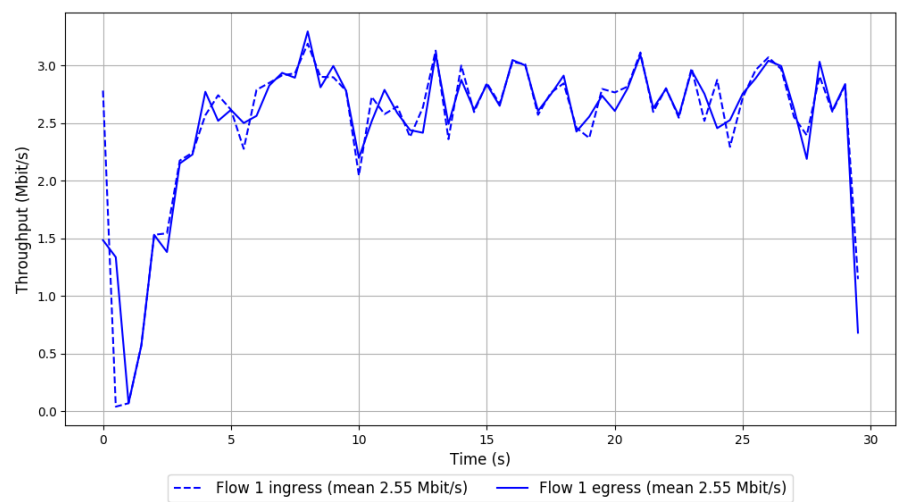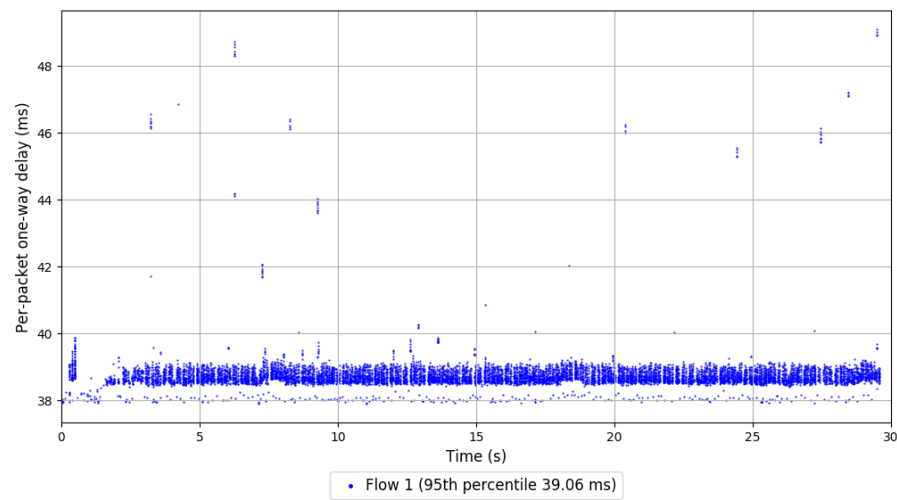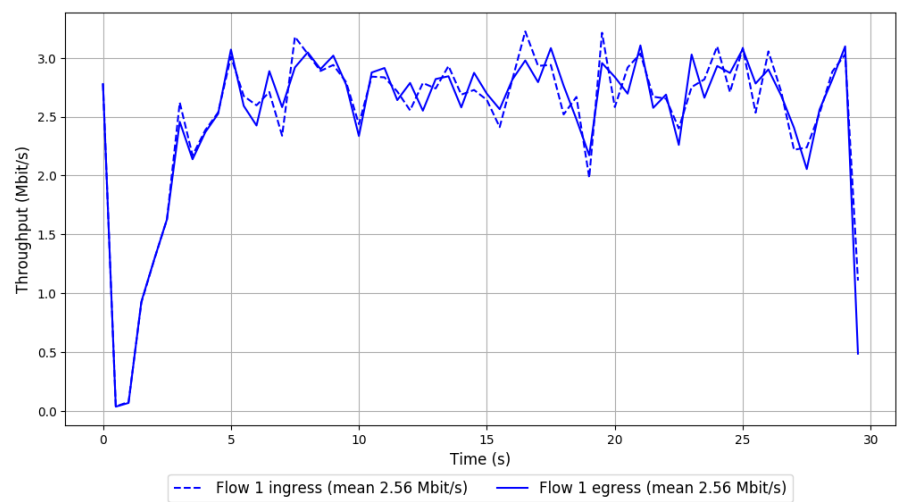
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-02-04 05:02:57
End at: 2018-02-04 05:03:27
Local clock offset: 0.323 ms
Remote clock offset: 3.796 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 39.397 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 39.397 ms
Loss rate: 0.45%
```
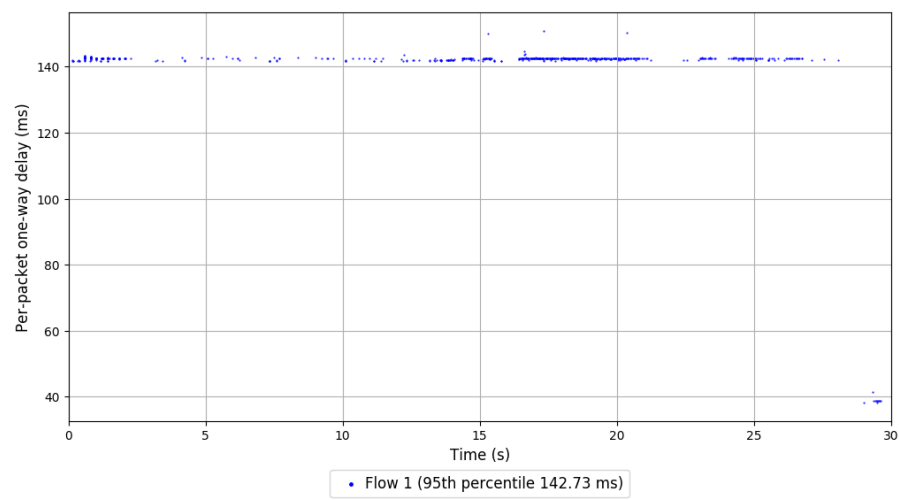
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-02-04 05:24:43
End at: 2018-02-04 05:25:13
Local clock offset: 0.552 ms
Remote clock offset: 4.732 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 39.065 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 39.065 ms
Loss rate: 0.51%
```
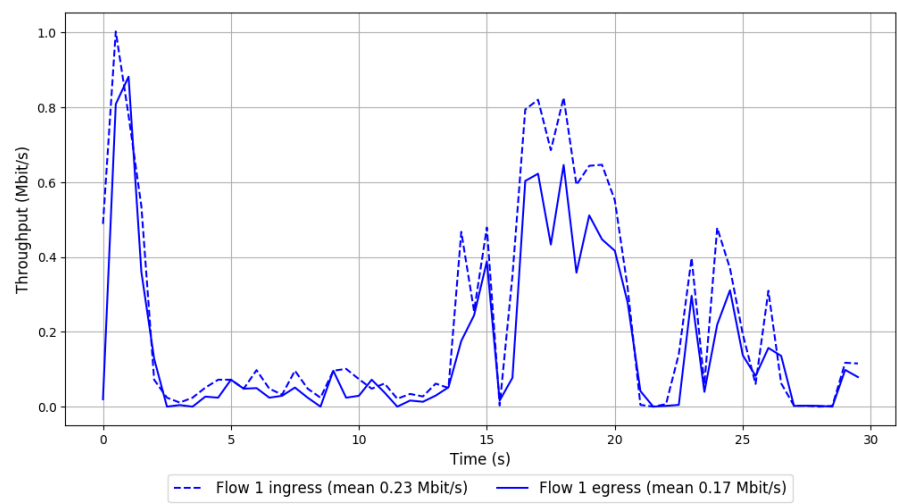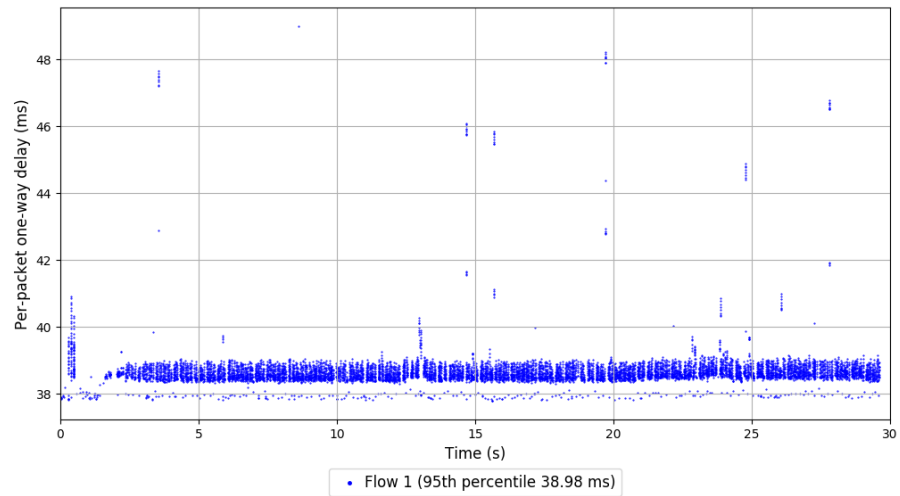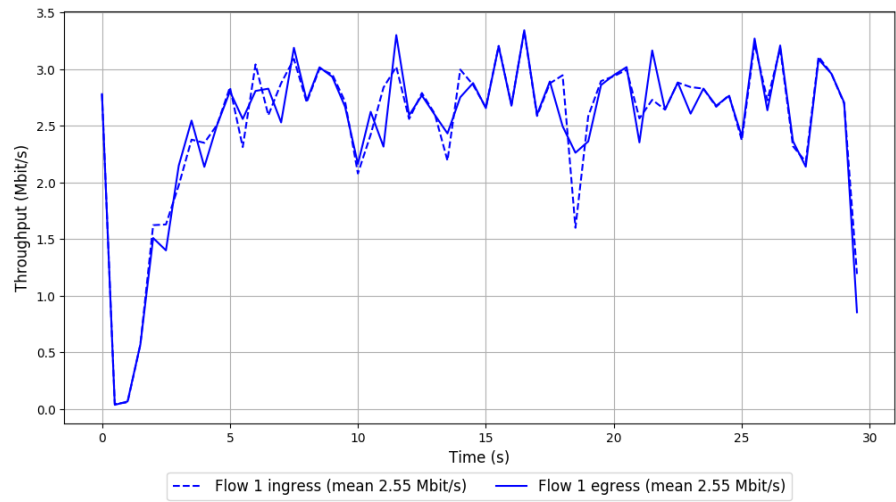
Run 4: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.56 Mbit/s) --- Flow 1 egress (mean 2.56 Mbit/s)

Flow 1 (95th percentile 39.06 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2018-02-04 05:46:32
End at: 2018-02-04 05:47:02
Local clock offset: 0.345 ms
Remote clock offset: 5.778 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 142.734 ms
Loss rate: 29.63%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 142.734 ms
Loss rate: 29.63%
```
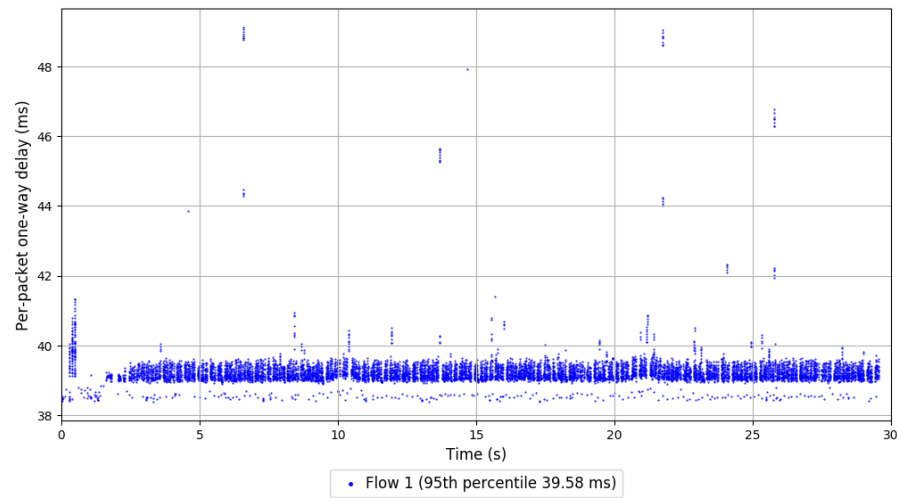
Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.23 Mbit/s)   Flow 1 egress (mean 0.17 Mbit/s)

Flow 1 (95th percentile 142.73 ms)

```
Run 6: Statistics of WebRTC media

Start at: 2018-02-04 06:16:54
End at: 2018-02-04 06:17:24
Local clock offset: 0.851 ms
Remote clock offset: 6.202 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 38.975 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 38.975 ms
Loss rate: 0.38%
```
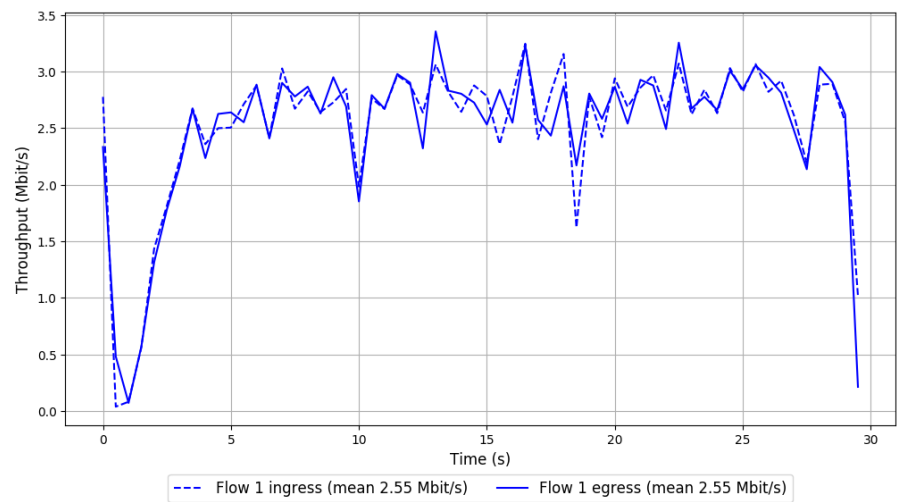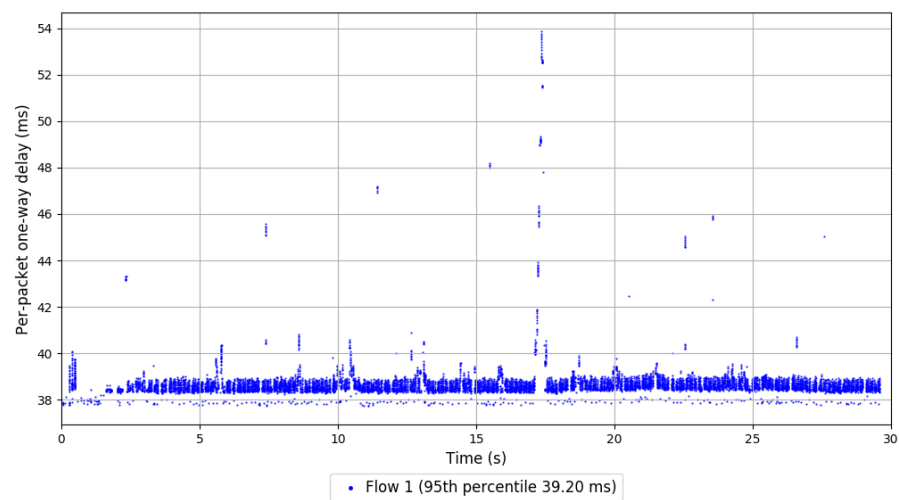
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-02-04 06:40:24
End at: 2018-02-04 06:40:54
Local clock offset: 1.447 ms
Remote clock offset: 6.906 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 39.579 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 39.579 ms
Loss rate: 0.63%
```
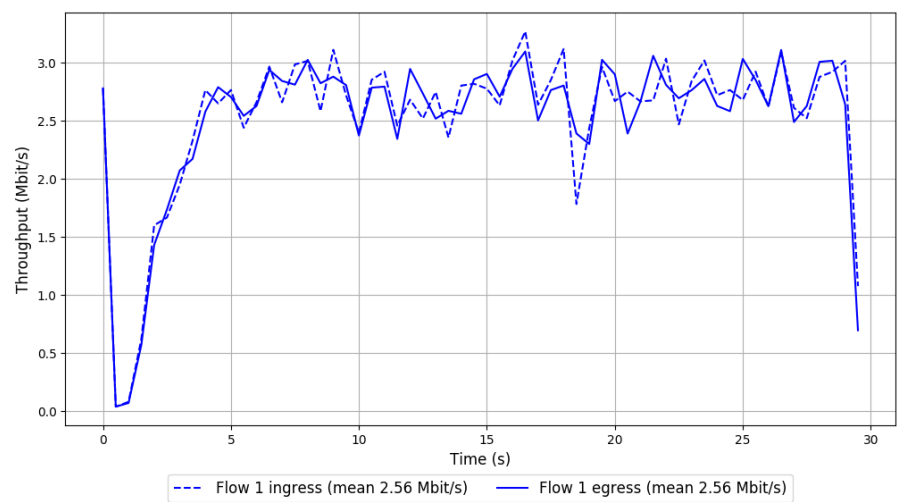
Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-02-04 07:03:58
End at: 2018-02-04 07:04:28
Local clock offset: 0.821 ms
Remote clock offset: 7.561 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 39.200 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 39.200 ms
Loss rate: 0.50%
```
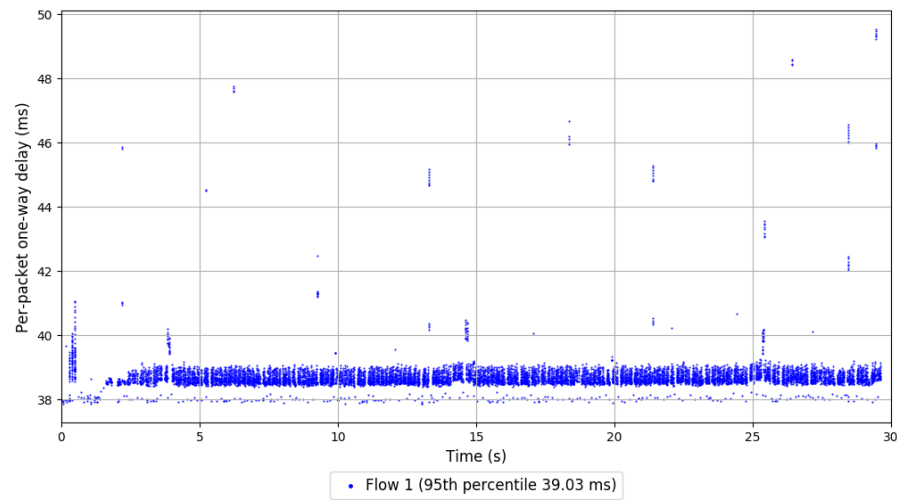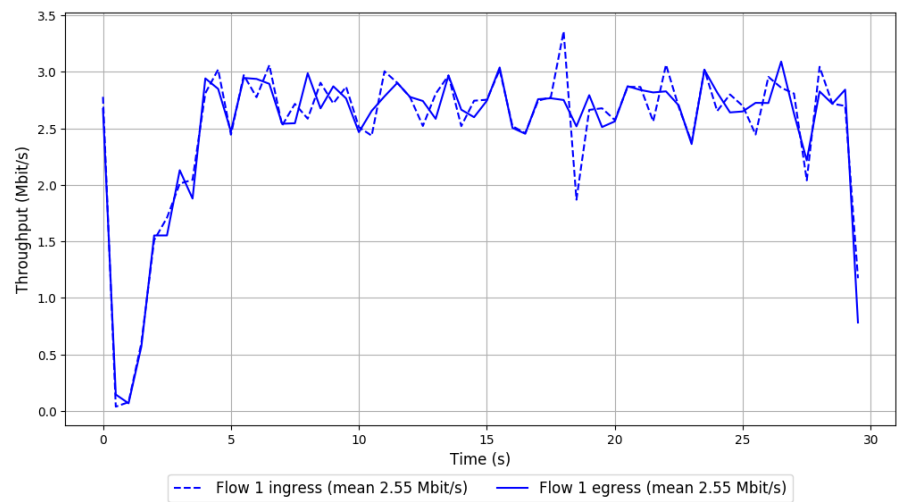
Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2018-02-04 07:25:47
End at: 2018-02-04 07:26:17
Local clock offset: 0.961 ms
Remote clock offset: 8.786 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 39.029 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.55 Mbit/s
95th percentile per-packet one-way delay: 39.029 ms
Loss rate: 0.31%
```
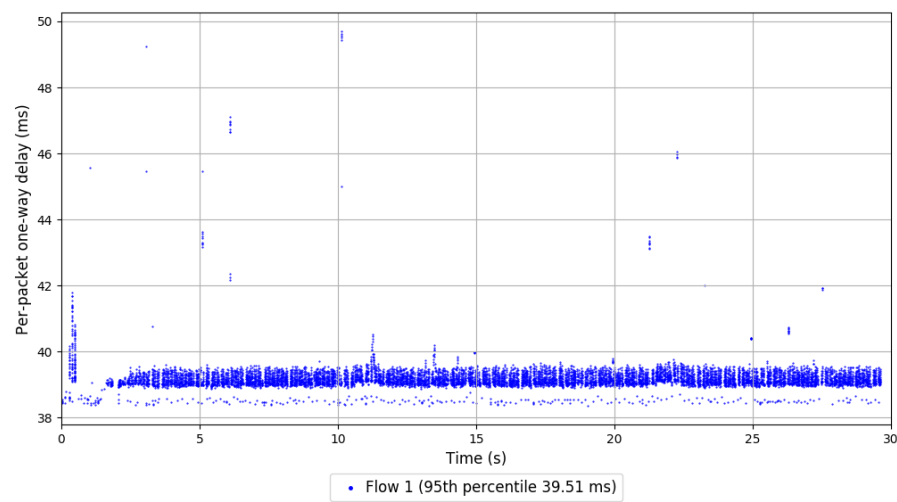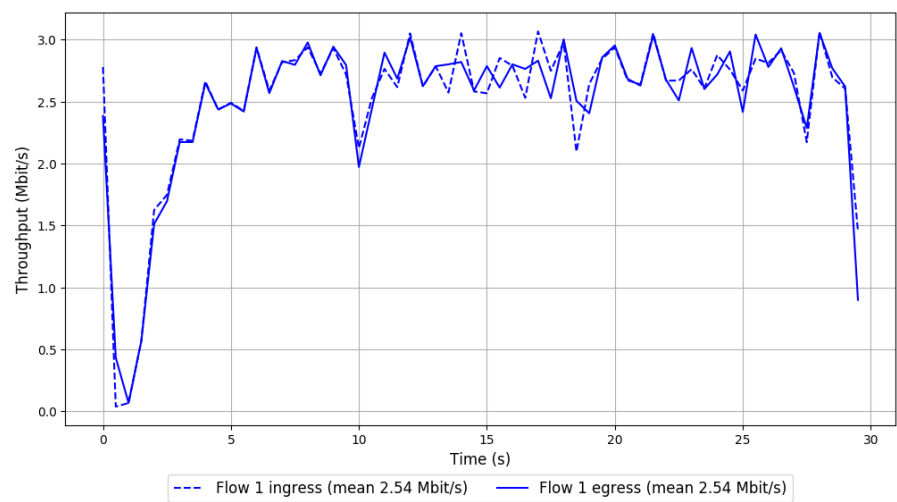
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-02-04 07:47:33
End at: 2018-02-04 07:48:03
Local clock offset: 1.149 ms
Remote clock offset: 10.069 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 39.511 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 39.511 ms
Loss rate: 0.47%
```

Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2018-02-04 04:25:09
End at: 2018-02-04 04:25:39
Local clock offset: -0.184 ms
Remote clock offset: 2.355 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 143.736 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 143.736 ms
Loss rate: 1.08%
```
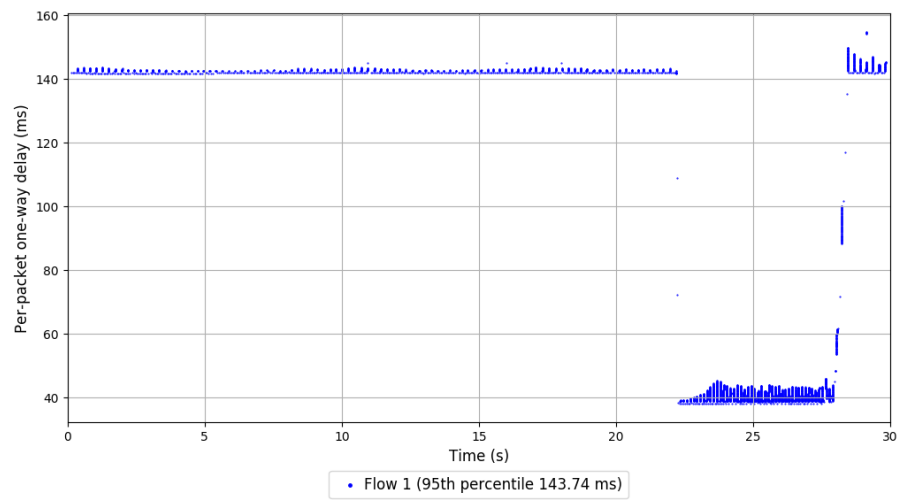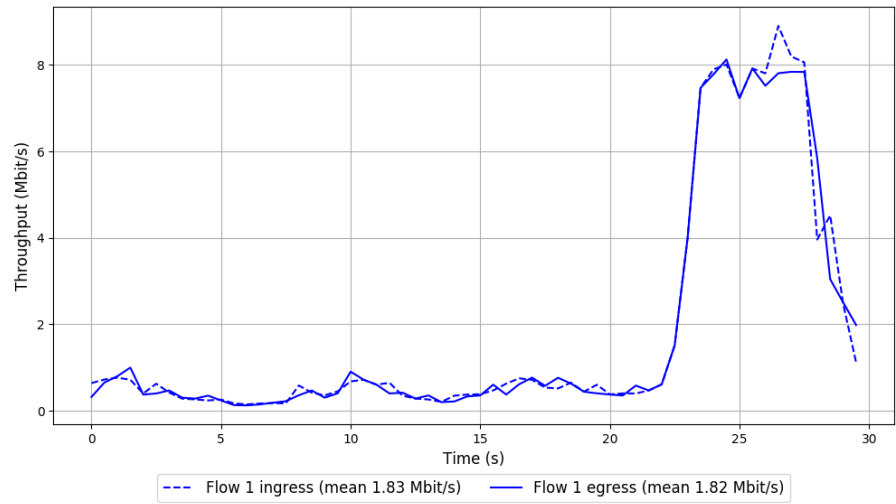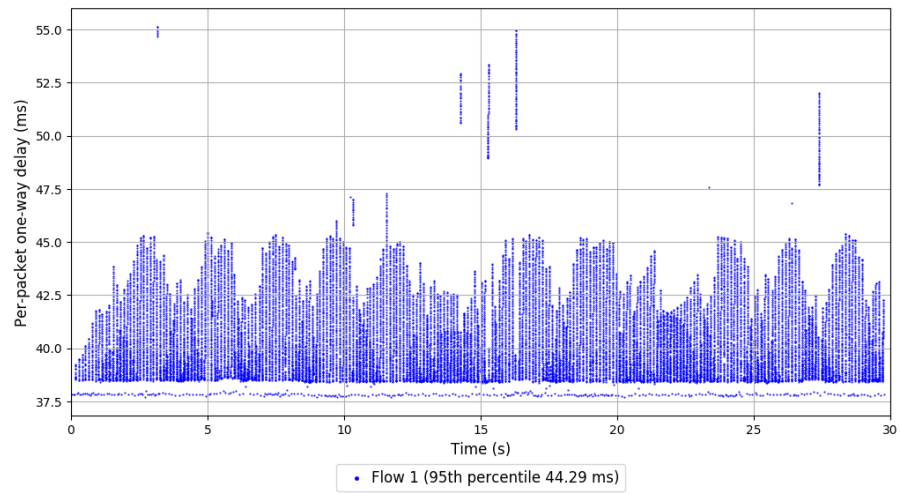
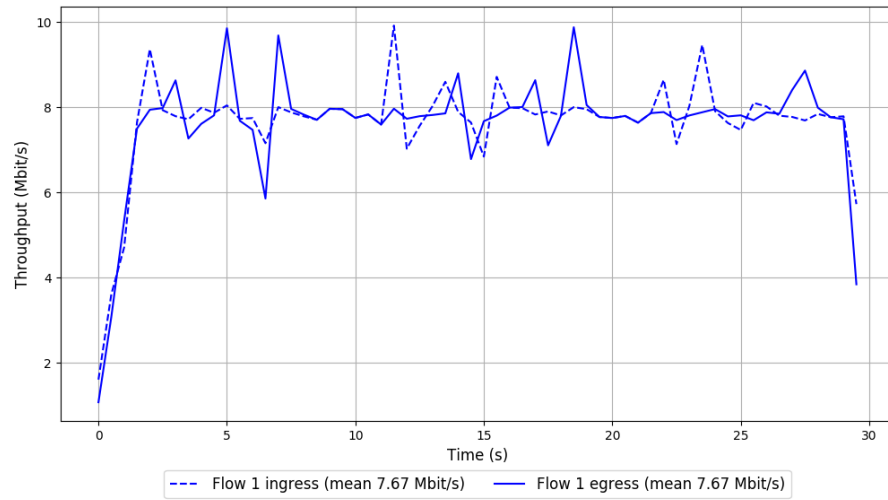## Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-02-04 04:47:15
End at: 2018-02-04 04:47:45
Local clock offset: -0.312 ms
Remote clock offset: 3.138 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 44.291 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 44.291 ms
Loss rate: 0.43%
```

Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 7.67 Mbit/s) — — —   Flow 1 egress (mean 7.67 Mbit/s) ———

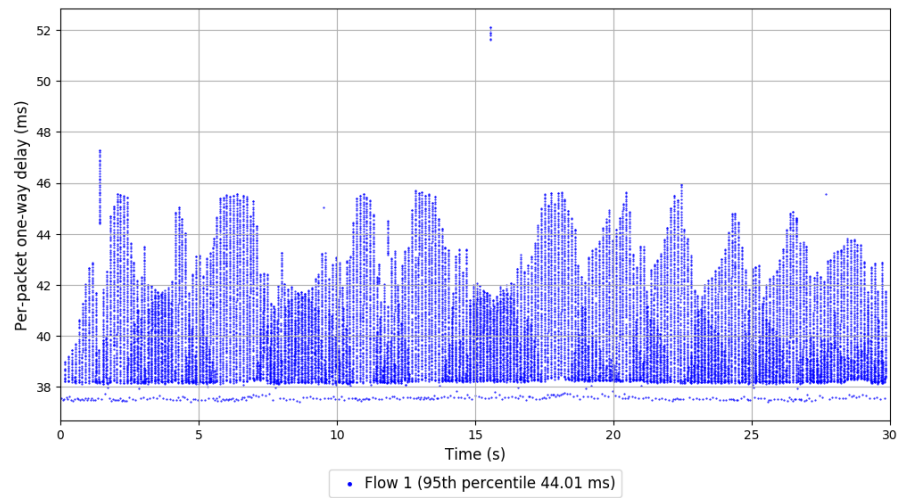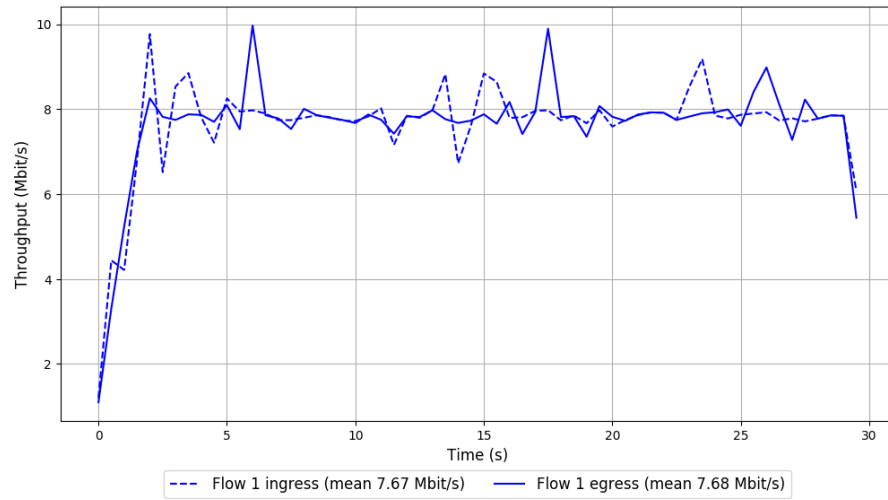Flow 1 (95th percentile 44.29 ms)

```
Run 3: Statistics of Sprout

Start at: 2018-02-04 05:09:02
End at: 2018-02-04 05:09:32
Local clock offset: -0.079 ms
Remote clock offset: 4.081 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 44.012 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 44.012 ms
Loss rate: 0.14%
```
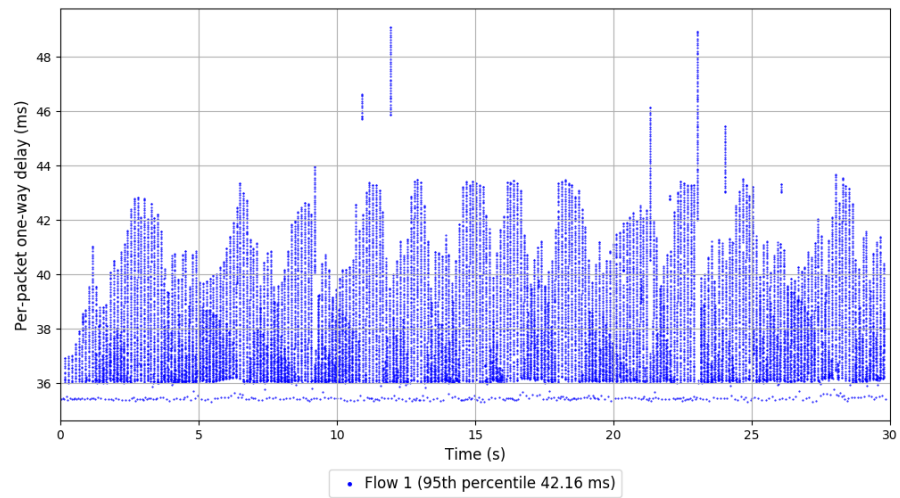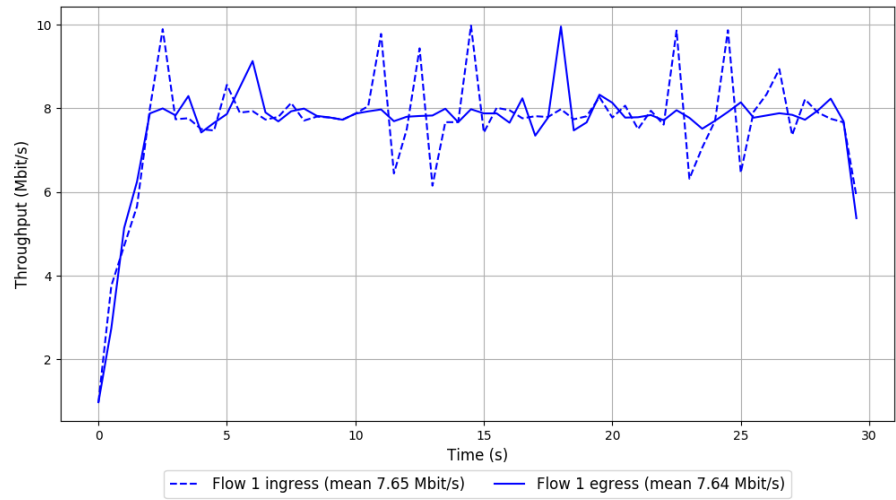
Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 7.67 Mbit/s) --- Flow 1 egress (mean 7.68 Mbit/s)

Flow 1 (95th percentile 44.01 ms)

```
Run 4: Statistics of Sprout

Start at: 2018-02-04 05:30:46
End at: 2018-02-04 05:31:16
Local clock offset: -2.425 ms
Remote clock offset: 5.002 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 42.163 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.64 Mbit/s
95th percentile per-packet one-way delay: 42.163 ms
Loss rate: 0.43%
```

Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-02-04 05:57:16
End at: 2018-02-04 05:57:46
Local clock offset: 0.443 ms
Remote clock offset: 6.121 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 141.999 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 141.999 ms
Loss rate: 2.90%
```
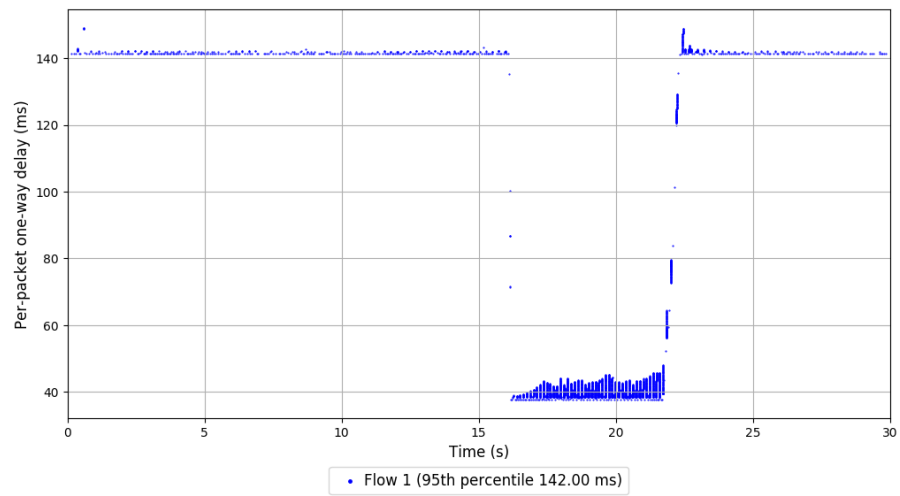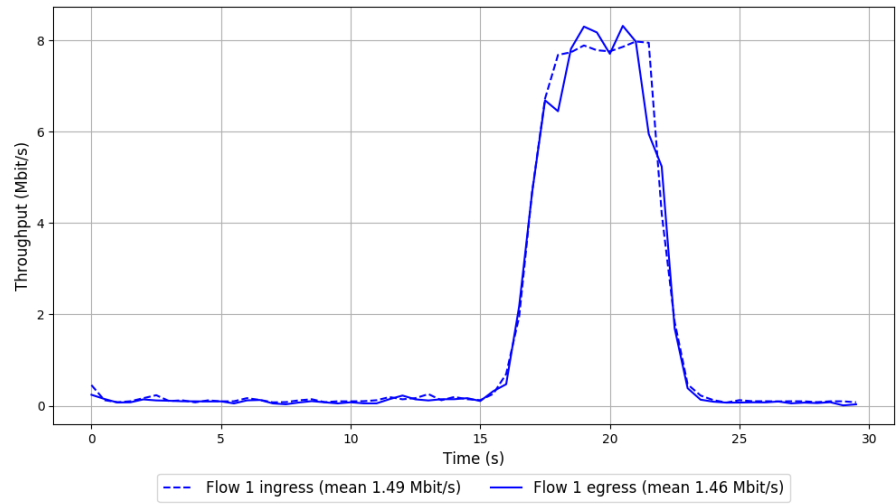
Run 5: Report of Sprout — Data Link

```
Run 6: Statistics of Sprout

Start at: 2018-02-04 06:23:01
End at: 2018-02-04 06:23:31
Local clock offset: 1.137 ms
Remote clock offset: 6.499 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 44.950 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 44.950 ms
Loss rate: 0.43%
```
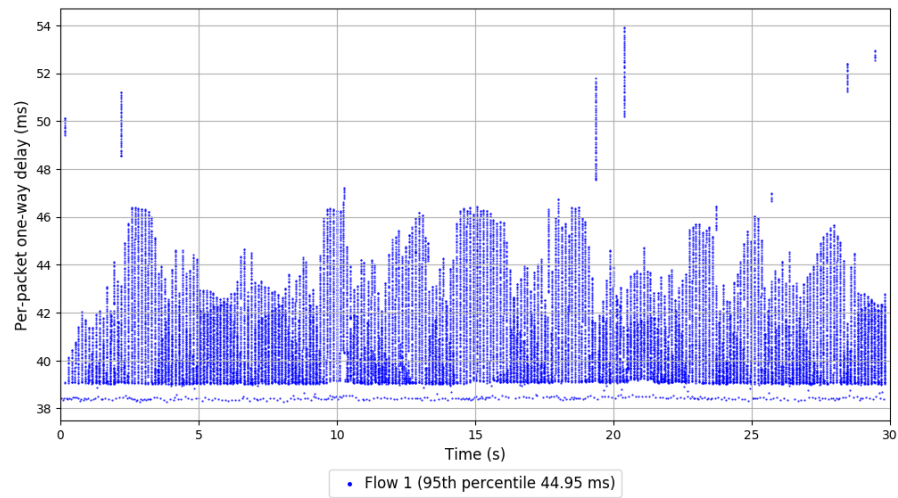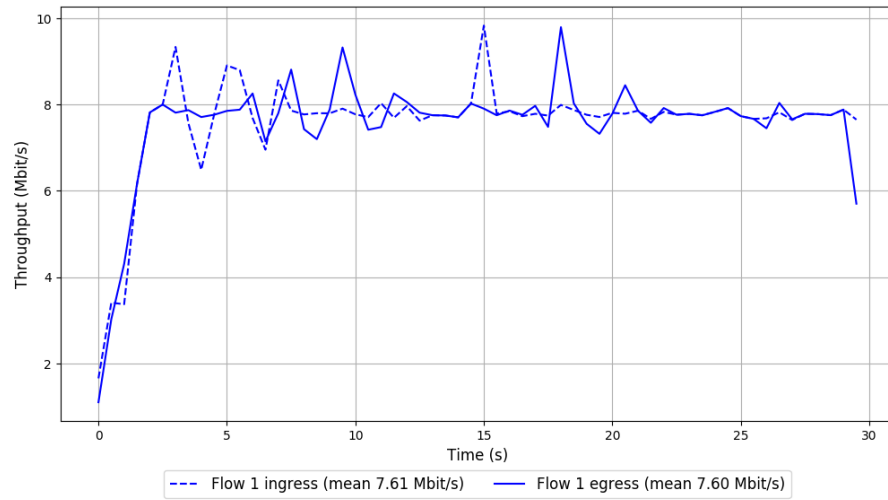
Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2018-02-04 06:46:27
End at: 2018-02-04 06:46:57
Local clock offset: 1.365 ms
Remote clock offset: 7.08 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 44.699 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 44.699 ms
Loss rate: 0.42%
```
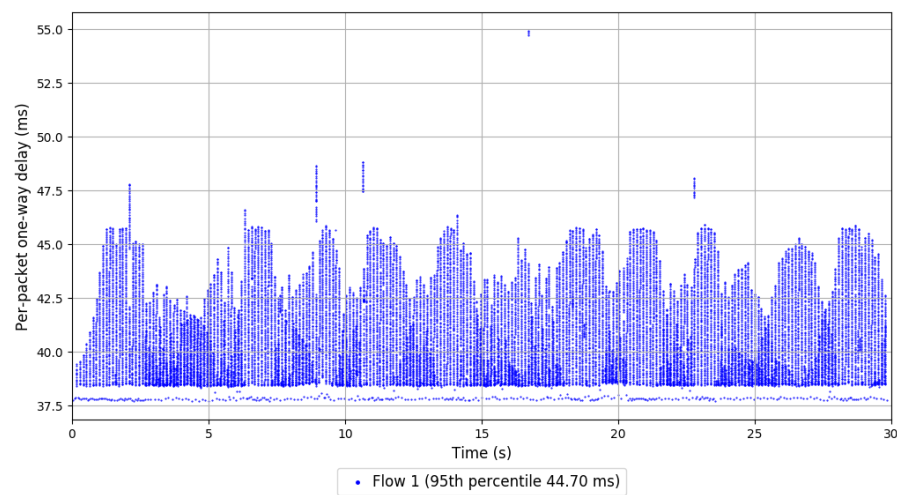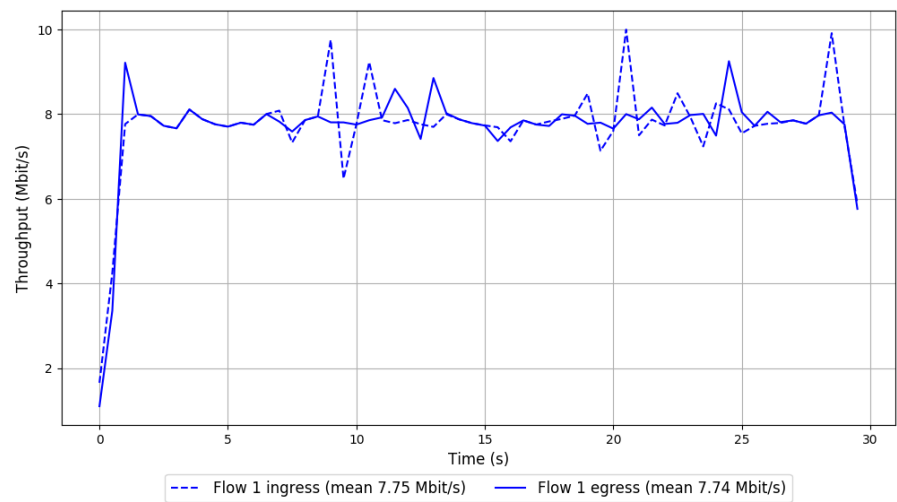
Run 7: Report of Sprout — Data Link

Flow 1 ingress (mean 7.75 Mbit/s)   —— Flow 1 egress (mean 7.74 Mbit/s)

• Flow 1 (95th percentile 44.70 ms)

```
Run 8: Statistics of Sprout

Start at: 2018-02-04 07:10:04
End at: 2018-02-04 07:10:34
Local clock offset: 1.656 ms
Remote clock offset: 7.876 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 45.782 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 45.782 ms
Loss rate: 0.43%
```
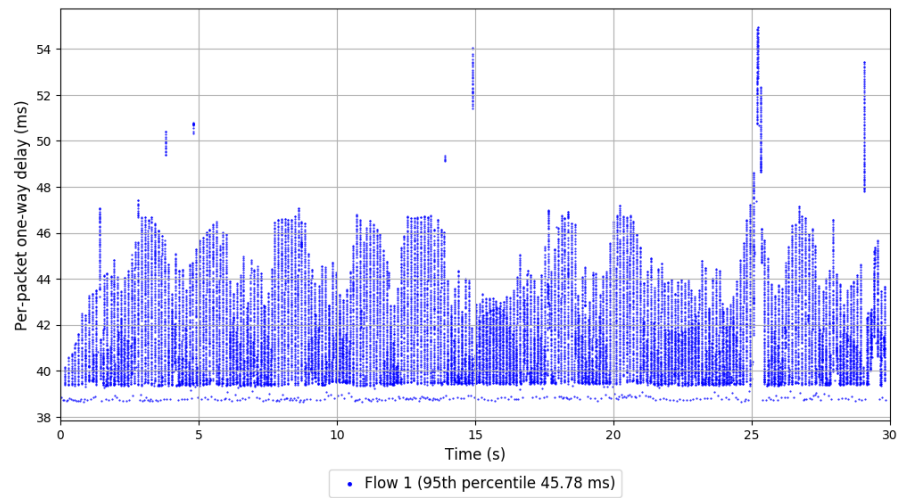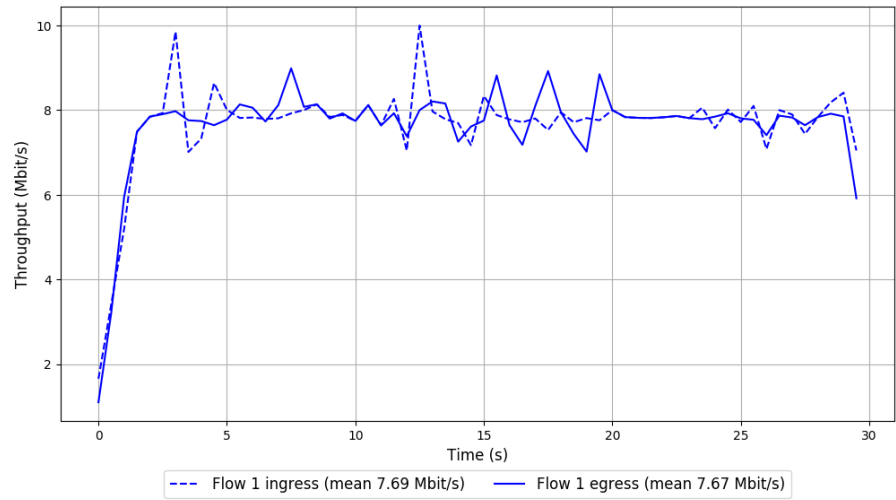
Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 7.69 Mbit/s)   Flow 1 egress (mean 7.67 Mbit/s)

Flow 1 (95th percentile 45.78 ms)

```
Run 9: Statistics of Sprout

Start at: 2018-02-04 07:31:51
End at: 2018-02-04 07:32:21
Local clock offset: 1.132 ms
Remote clock offset: 9.202 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 44.432 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 7.67 Mbit/s
95th percentile per-packet one-way delay: 44.432 ms
Loss rate: 0.43%
```
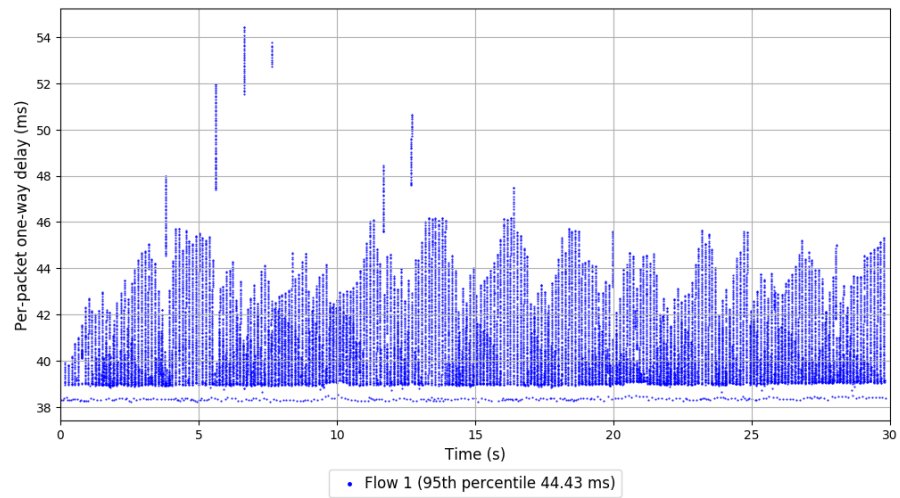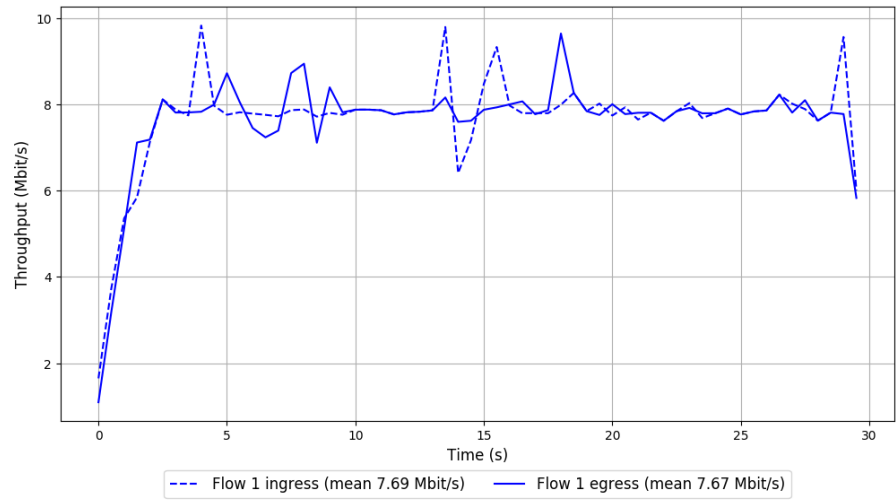
Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 7.69 Mbit/s)   Flow 1 egress (mean 7.67 Mbit/s)

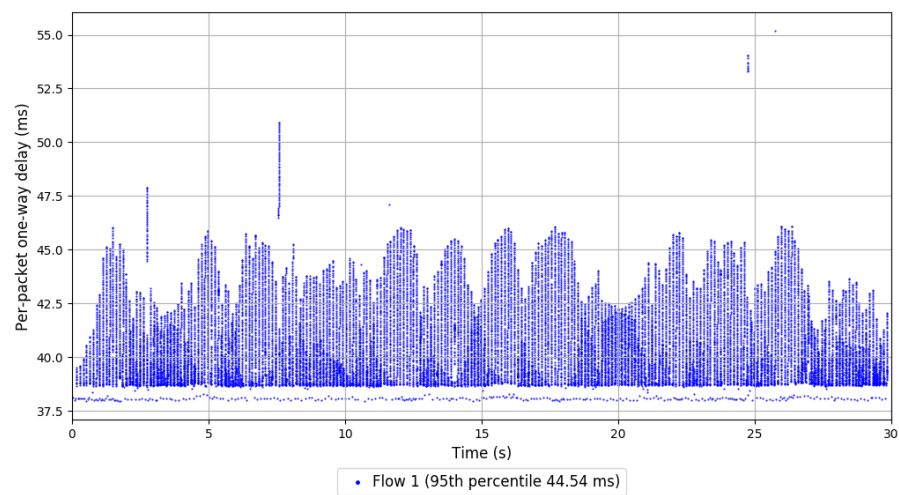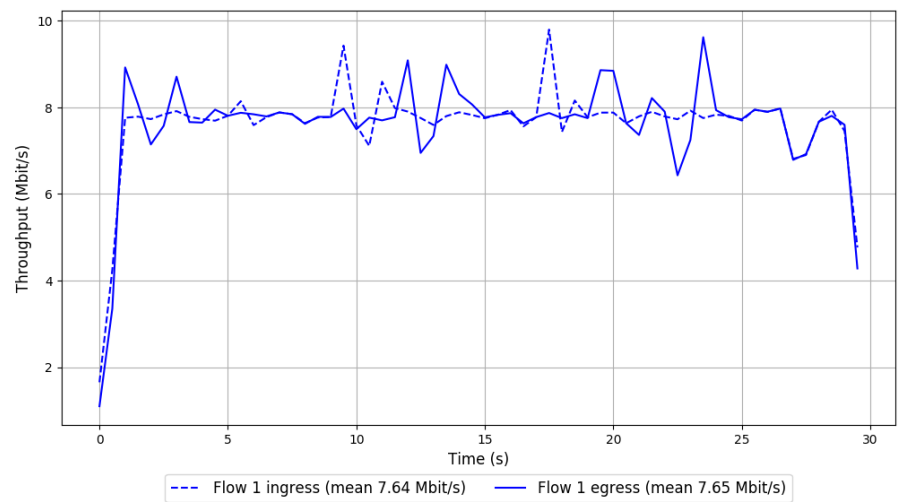Flow 1 (95th percentile 44.43 ms)

```
Run 10: Statistics of Sprout

Start at: 2018-02-04 07:53:37
End at: 2018-02-04 07:54:07
Local clock offset: 0.912 ms
Remote clock offset: 10.272 ms


# Below is generated by plot.py at 2018-02-04 11:57:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 44.537 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 44.537 ms
Loss rate: 0.11%
```

Run 10: Report of Sprout — Data Link

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

Start at: 2018-02-04 04:20:56
End at: 2018-02-04 04:21:26
Local clock offset: -0.29 ms
Remote clock offset: 2.283 ms


# Below is generated by plot.py at 2018-02-04 11:58:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 152.072 ms
Loss rate: 3.57%
-- Flow 1:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 152.072 ms
Loss rate: 3.57%
```
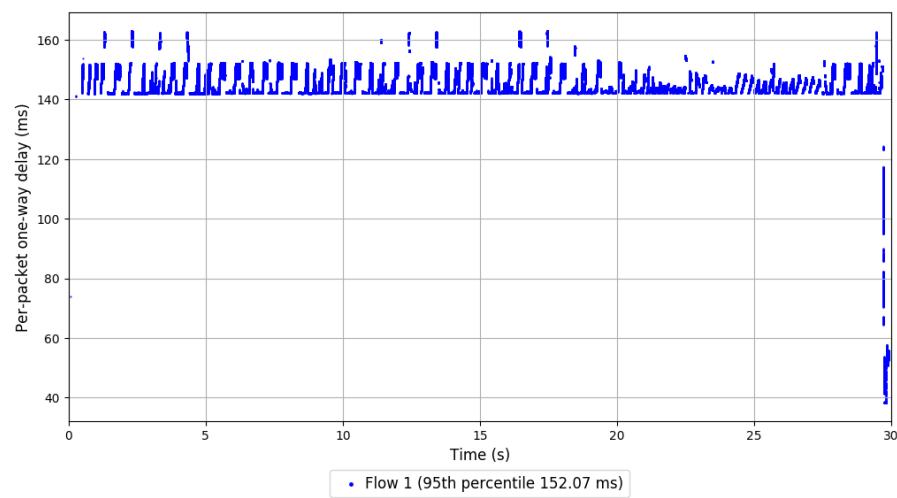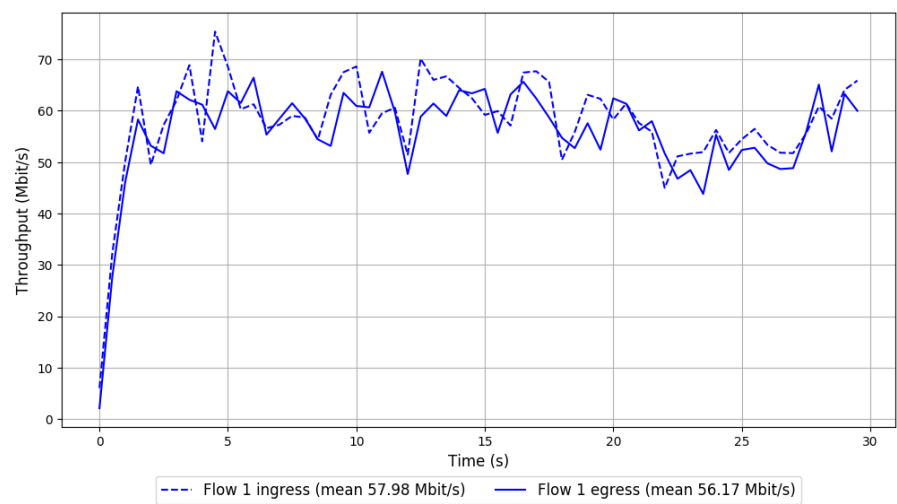
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 57.98 Mbit/s) — — — — Flow 1 egress (mean 56.17 Mbit/s)

• Flow 1 (95th percentile 152.07 ms)

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

Start at: 2018-02-04 04:44:47
End at: 2018-02-04 04:45:17
Local clock offset: -0.299 ms
Remote clock offset: 3.026 ms


# Below is generated by plot.py at 2018-02-04 11:59:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 49.250 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 49.250 ms
Loss rate: 1.18%
```
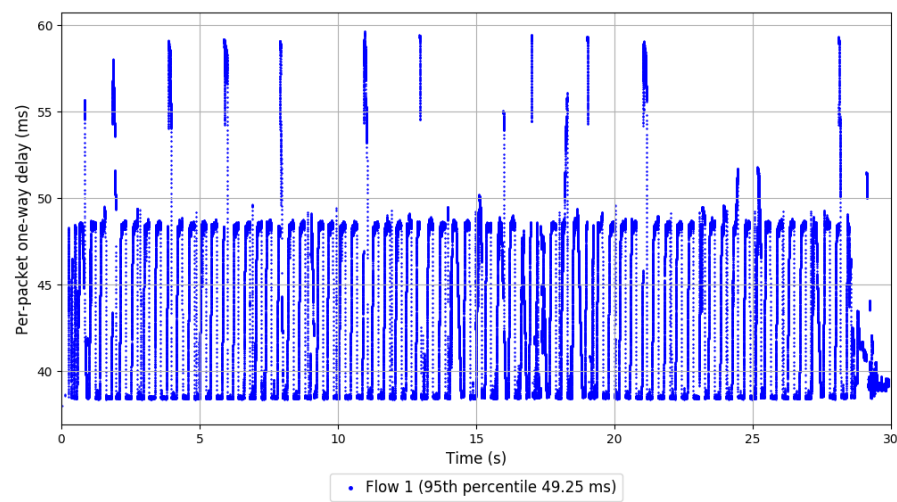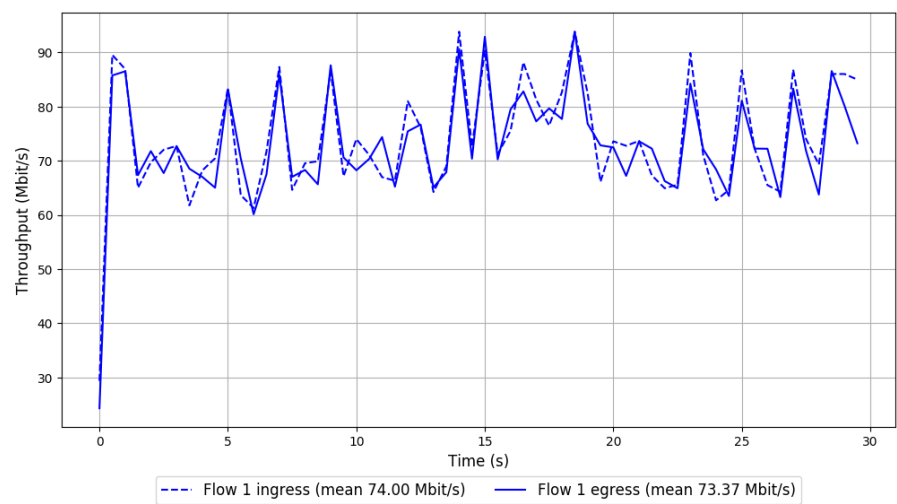
Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2018-02-04 05:06:34
End at: 2018-02-04 05:07:04
Local clock offset: 0.014 ms
Remote clock offset: 3.943 ms


# Below is generated by plot.py at 2018-02-04 11:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.10 Mbit/s
95th percentile per-packet one-way delay: 49.253 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 76.10 Mbit/s
95th percentile per-packet one-way delay: 49.253 ms
Loss rate: 0.74%
```
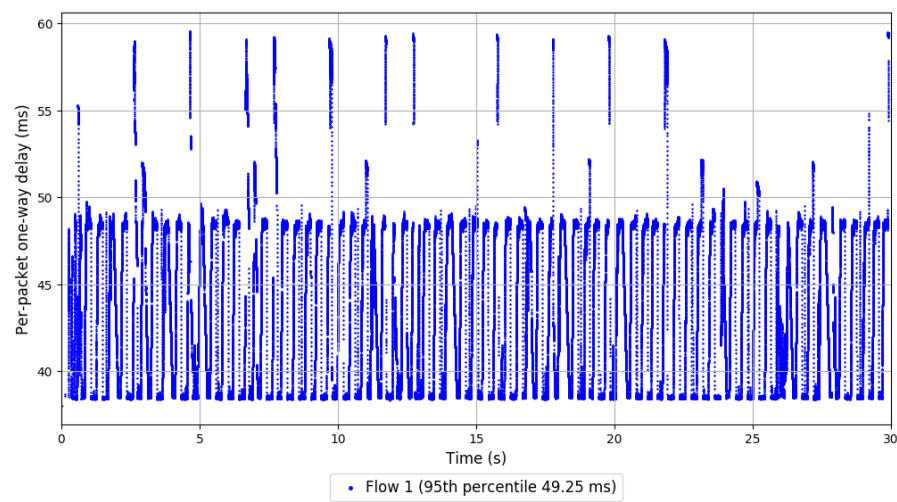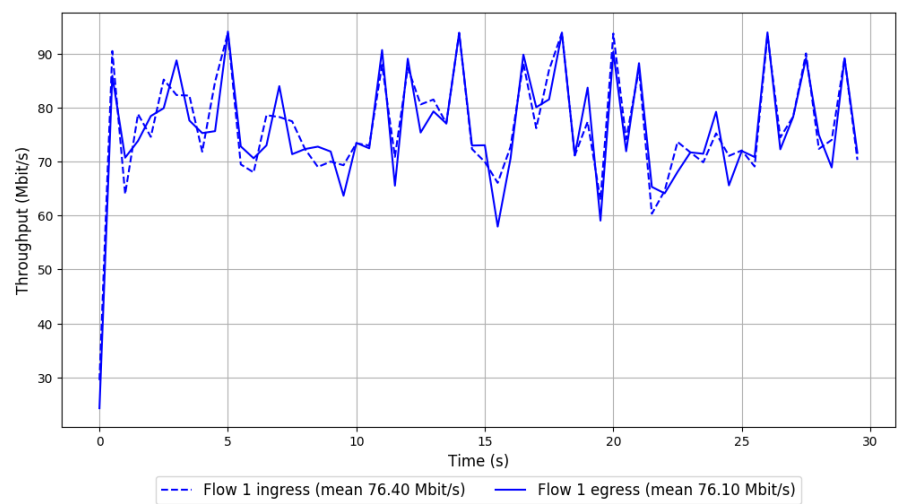
Run 3: Report of TaoVA-100x — Data Link

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

Start at: 2018-02-04 05:28:19
End at: 2018-02-04 05:28:49
Local clock offset: 0.266 ms
Remote clock offset: 4.929 ms


# Below is generated by plot.py at 2018-02-04 11:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 49.518 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 73.68 Mbit/s
95th percentile per-packet one-way delay: 49.518 ms
Loss rate: 2.14%
```
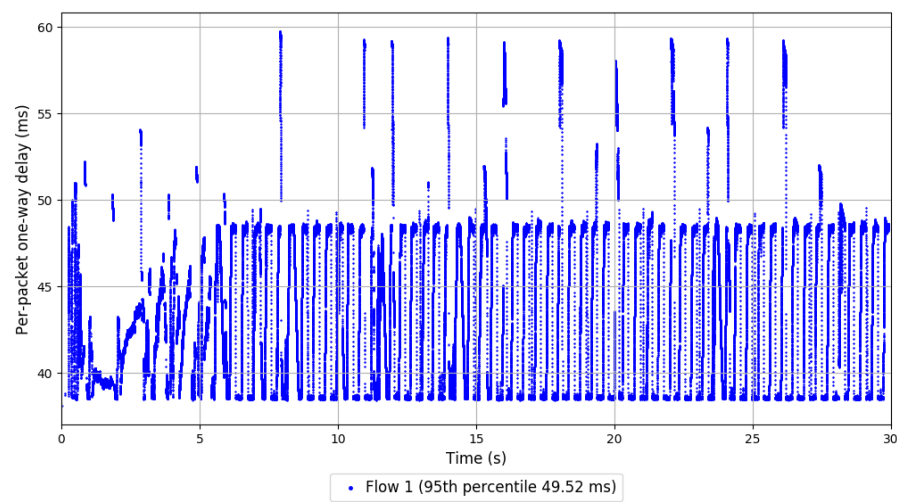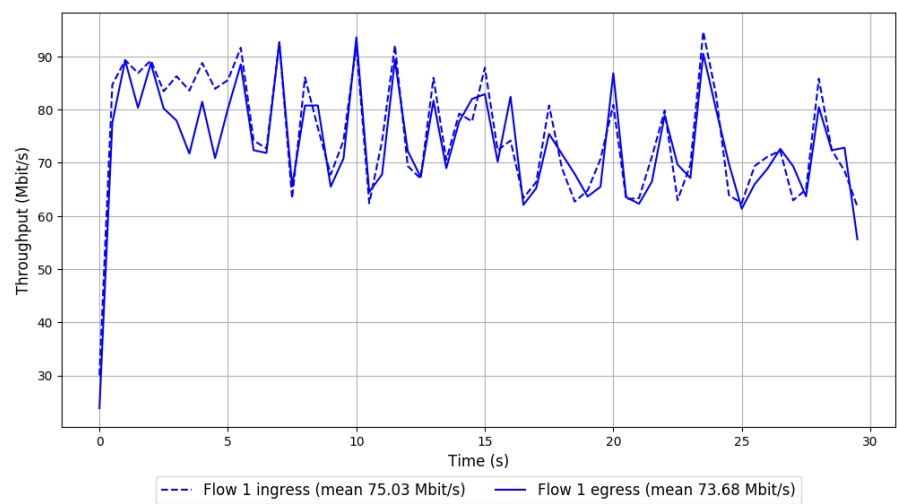
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 75.03 Mbit/s) --- Flow 1 egress (mean 73.68 Mbit/s)

• Flow 1 (95th percentile 49.52 ms)

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

Start at: 2018-02-04 05:52:30
End at: 2018-02-04 05:53:00
Local clock offset: 0.61 ms
Remote clock offset: 6.06 ms


# Below is generated by plot.py at 2018-02-04 11:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 152.319 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 152.319 ms
Loss rate: 2.14%
```
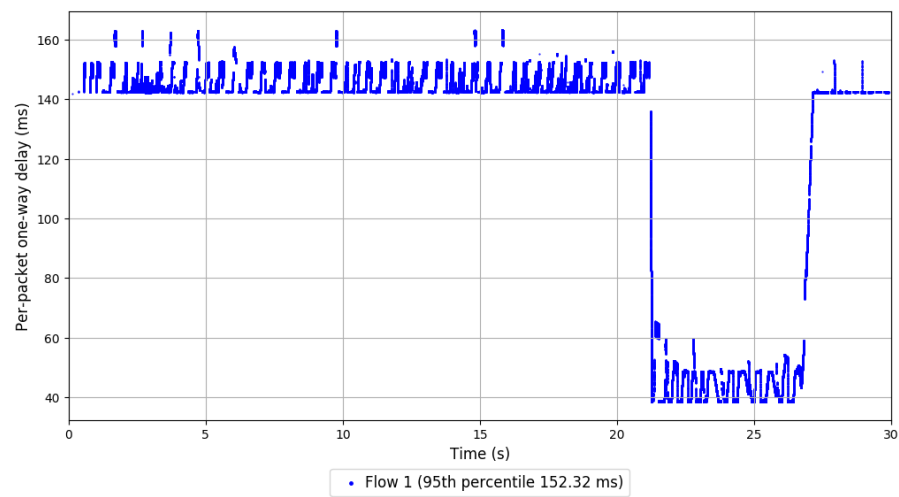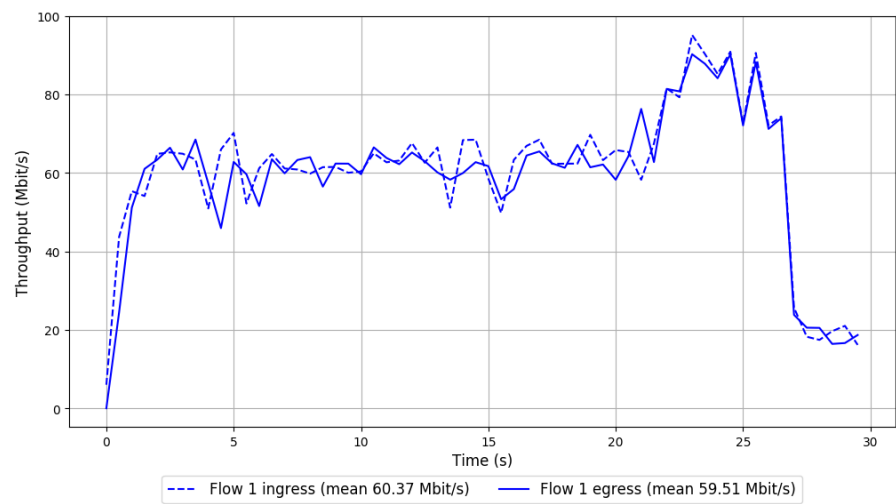
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 60.37 Mbit/s) --- Flow 1 egress (mean 59.51 Mbit/s)

Flow 1 (95th percentile 152.32 ms)

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

Start at: 2018-02-04 06:20:31
End at: 2018-02-04 06:21:01
Local clock offset: 0.614 ms
Remote clock offset: 6.32 ms


# Below is generated by plot.py at 2018-02-04 11:59:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.36 Mbit/s
95th percentile per-packet one-way delay: 53.156 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 74.36 Mbit/s
95th percentile per-packet one-way delay: 53.156 ms
Loss rate: 0.35%
```
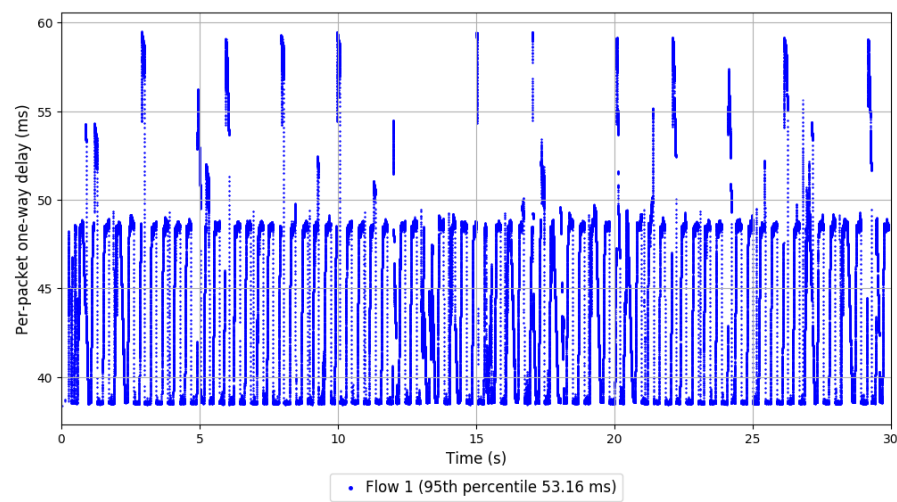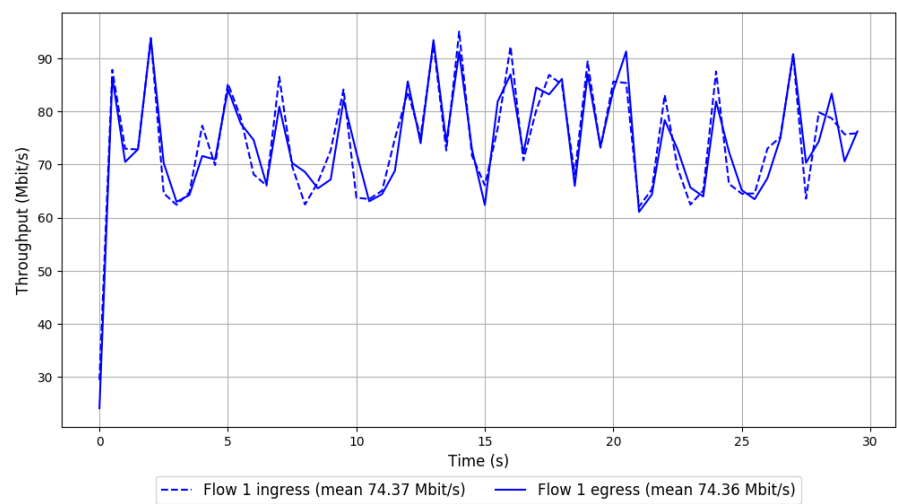
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 74.37 Mbit/s) — — — — Flow 1 egress (mean 74.36 Mbit/s)

• Flow 1 (95th percentile 53.16 ms)

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

Start at: 2018-02-04 06:43:59
End at: 2018-02-04 06:44:29
Local clock offset: 0.769 ms
Remote clock offset: 7.004 ms


# Below is generated by plot.py at 2018-02-04 11:59:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 51.131 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 51.131 ms
Loss rate: 2.34%
```
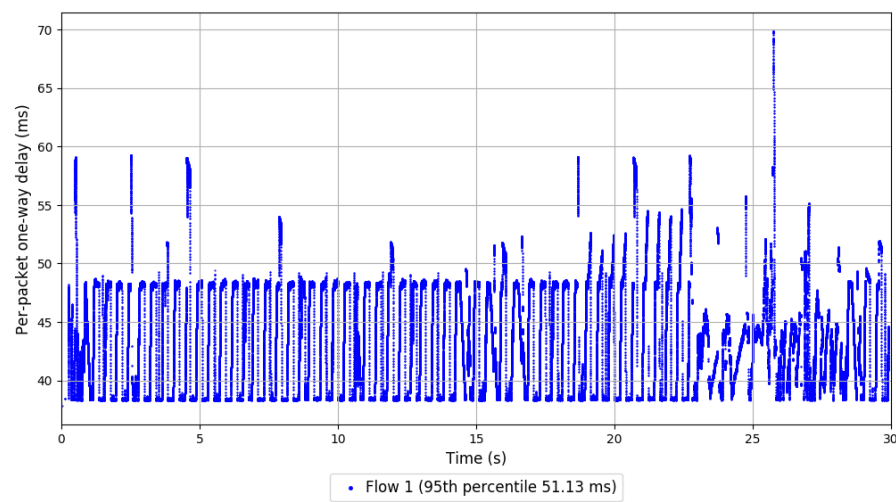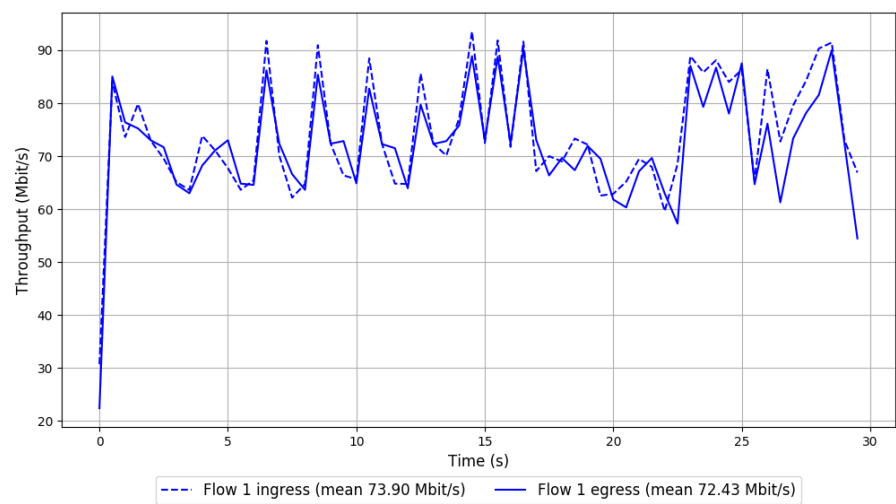
Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 73.90 Mbit/s) --- Flow 1 egress (mean 72.43 Mbit/s)

Flow 1 (95th percentile 51.13 ms)

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

Start at: 2018-02-04 07:07:34
End at: 2018-02-04 07:08:04
Local clock offset: 0.81 ms
Remote clock offset: 7.749 ms


# Below is generated by plot.py at 2018-02-04 11:59:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.11 Mbit/s
95th percentile per-packet one-way delay: 51.716 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 76.11 Mbit/s
95th percentile per-packet one-way delay: 51.716 ms
Loss rate: 1.31%
```
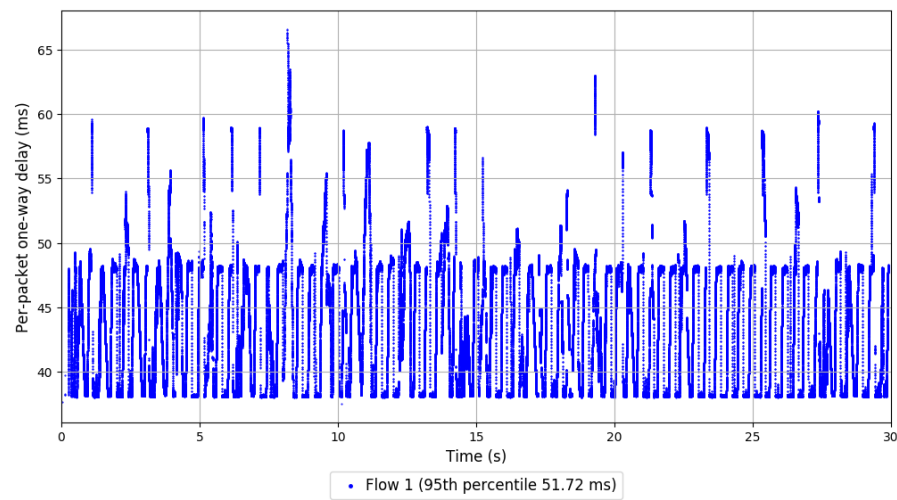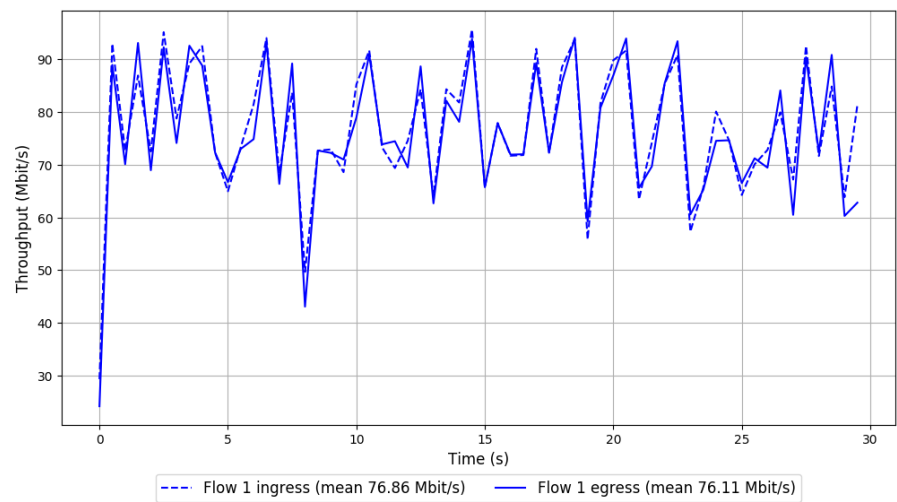
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 76.86 Mbit/s) --- Flow 1 egress (mean 76.11 Mbit/s)

Flow 1 (95th percentile 51.72 ms)

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

Start at: 2018-02-04 07:29:22
End at: 2018-02-04 07:29:52
Local clock offset: 1.521 ms
Remote clock offset: 8.997 ms


# Below is generated by plot.py at 2018-02-04 12:01:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.43 Mbit/s
95th percentile per-packet one-way delay: 49.336 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 74.43 Mbit/s
95th percentile per-packet one-way delay: 49.336 ms
Loss rate: 2.32%
```
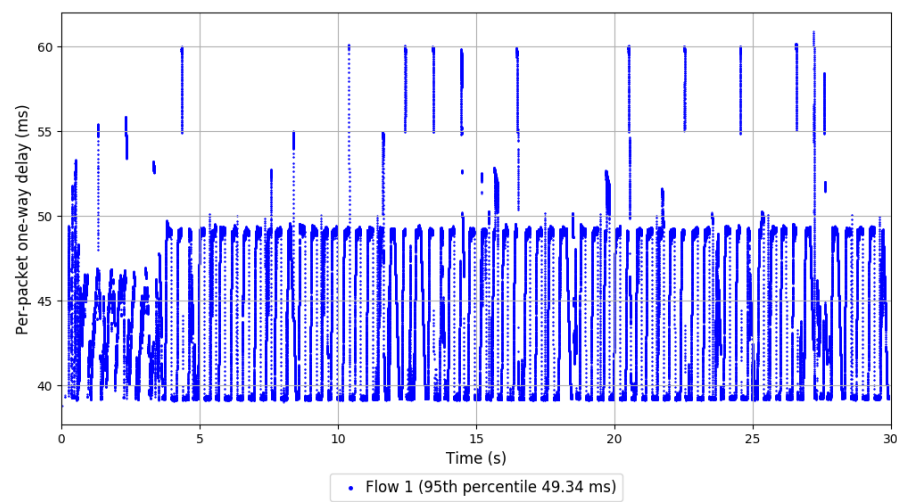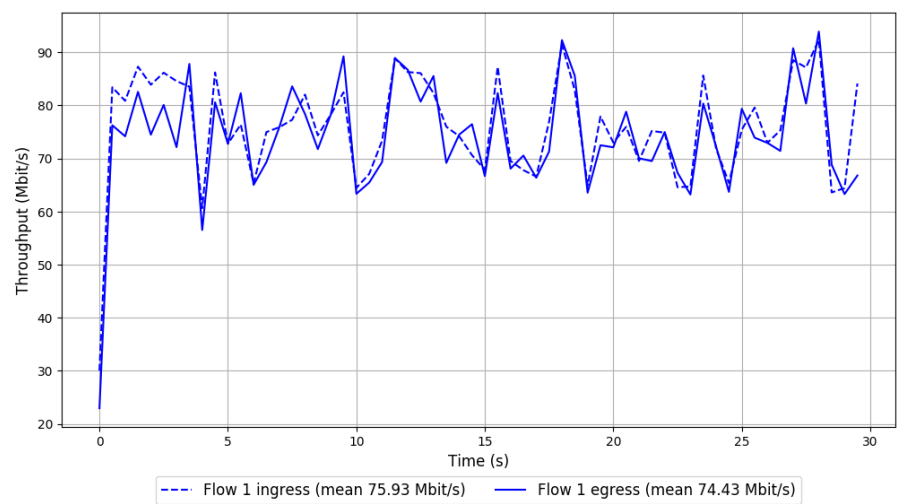
Run 9: Report of TaoVA-100x — Data Link

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

Start at: 2018-02-04 07:51:09
End at: 2018-02-04 07:51:39
Local clock offset: 0.848 ms
Remote clock offset: 10.184 ms


# Below is generated by plot.py at 2018-02-04 12:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.85 Mbit/s
95th percentile per-packet one-way delay: 49.560 ms
Loss rate: 4.53%
-- Flow 1:
Average throughput: 76.85 Mbit/s
95th percentile per-packet one-way delay: 49.560 ms
Loss rate: 4.53%
```
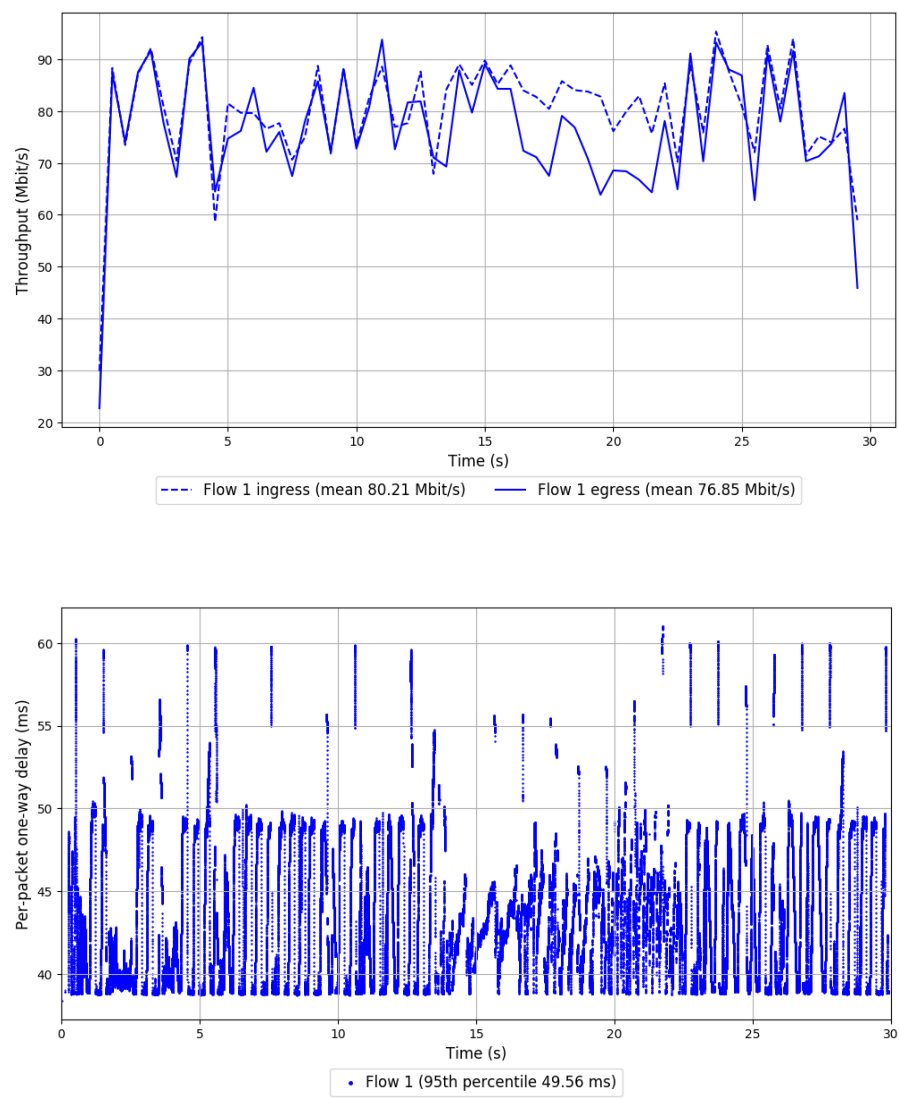
Run 10: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2018-02-04 04:06:31
End at: 2018-02-04 04:07:02
Local clock offset: -0.993 ms
Remote clock offset: 1.927 ms


# Below is generated by plot.py at 2018-02-04 12:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 141.790 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 1.18 Mbit/s
95th percentile per-packet one-way delay: 141.790 ms
Loss rate: 1.01%
```
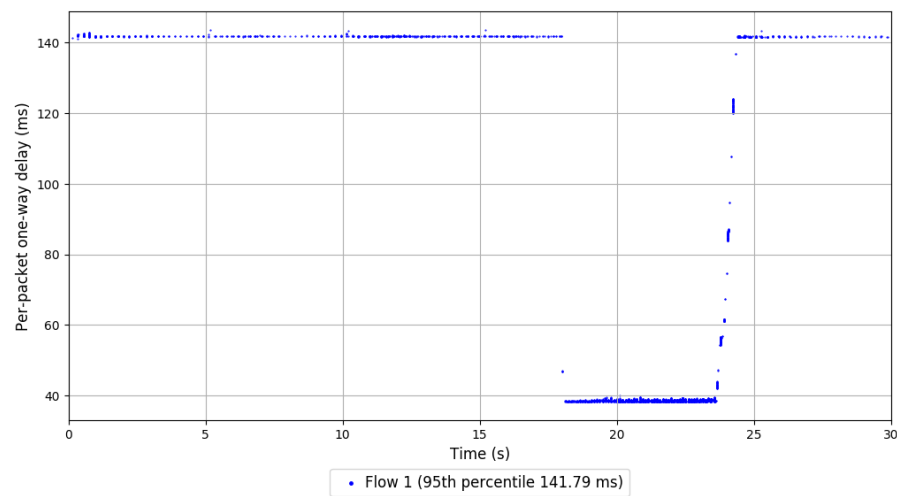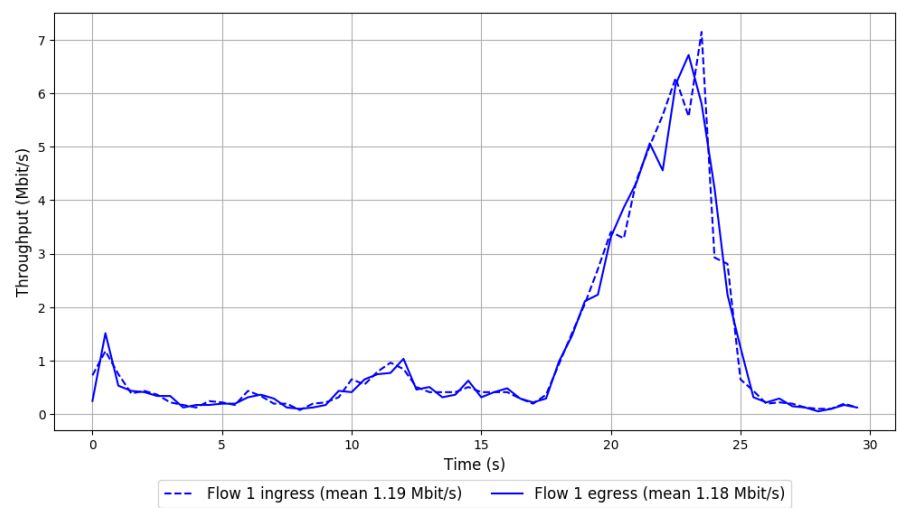
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2018-02-04 04:35:04
End at: 2018-02-04 04:35:34
Local clock offset: -0.384 ms
Remote clock offset: 2.667 ms


# Below is generated by plot.py at 2018-02-04 12:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 59.837 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 59.837 ms
Loss rate: 0.42%
```
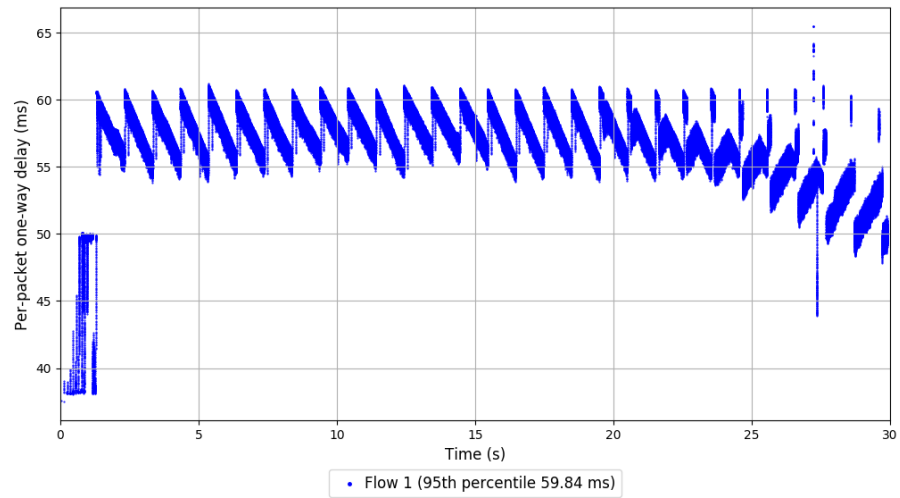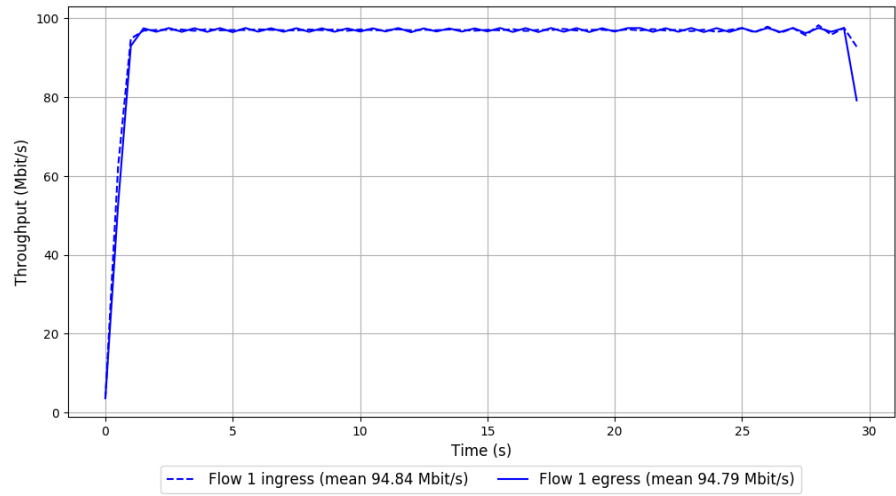
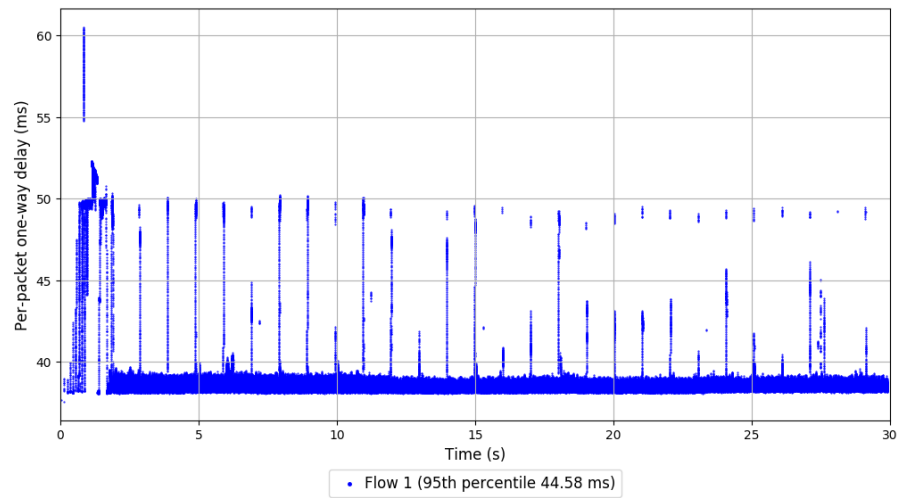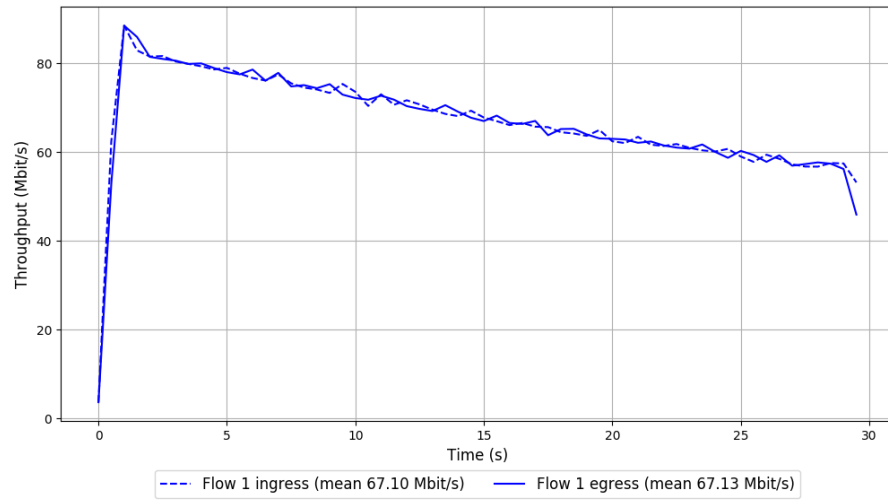Run 2: Report of TCP Vegas — Data Link

187

```
Run 3: Statistics of TCP Vegas

Start at: 2018-02-04 04:56:52
End at: 2018-02-04 04:57:22
Local clock offset: -0.105 ms
Remote clock offset: 3.557 ms


# Below is generated by plot.py at 2018-02-04 12:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.13 Mbit/s
95th percentile per-packet one-way delay: 44.577 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 67.13 Mbit/s
95th percentile per-packet one-way delay: 44.577 ms
Loss rate: 0.29%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 67.10 Mbit/s) —— Flow 1 egress (mean 67.13 Mbit/s)

• Flow 1 (95th percentile 44.58 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2018-02-04 05:18:39
End at: 2018-02-04 05:19:09
Local clock offset: 0.246 ms
Remote clock offset: 4.529 ms


# Below is generated by plot.py at 2018-02-04 12:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 39.920 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 44.76 Mbit/s
95th percentile per-packet one-way delay: 39.920 ms
Loss rate: 0.42%
```
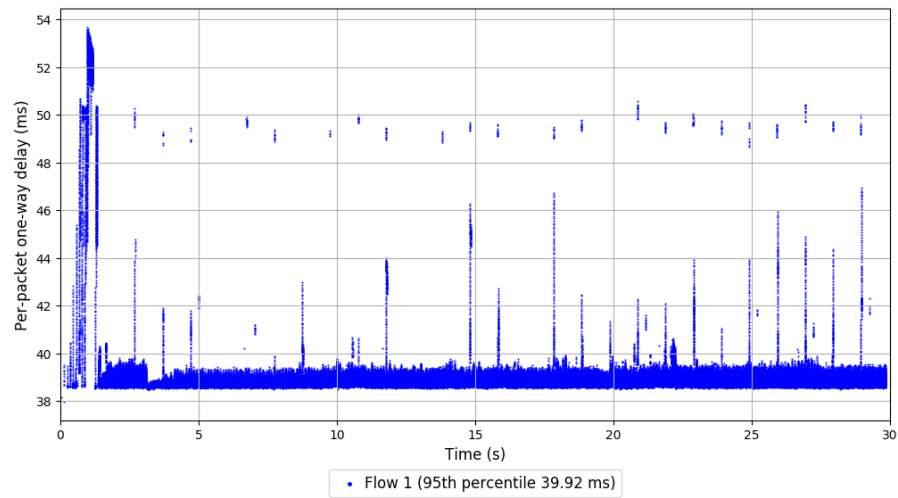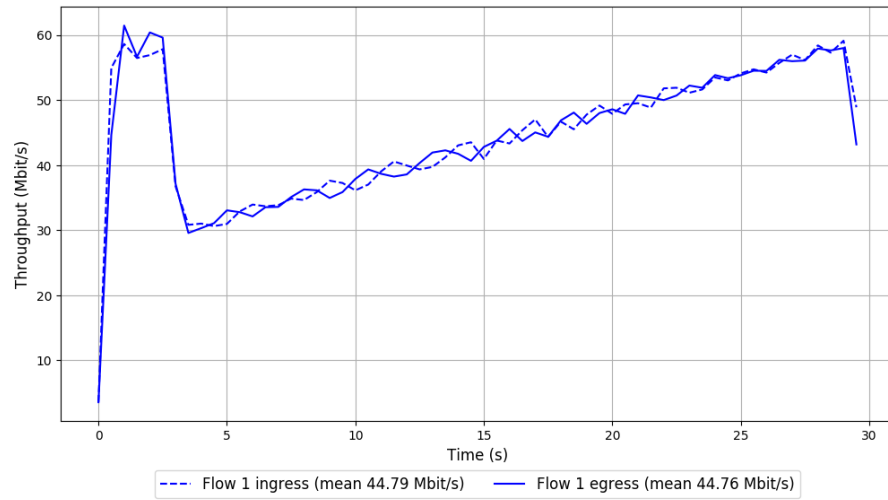
Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 44.79 Mbit/s)   Flow 1 egress (mean 44.76 Mbit/s)

Flow 1 (95th percentile 39.92 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2018-02-04 05:40:23
End at: 2018-02-04 05:40:53
Local clock offset: 0.577 ms
Remote clock offset: 5.514 ms

# Below is generated by plot.py at 2018-02-04 12:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 60.512 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 94.75 Mbit/s
95th percentile per-packet one-way delay: 60.512 ms
Loss rate: 0.42%
```
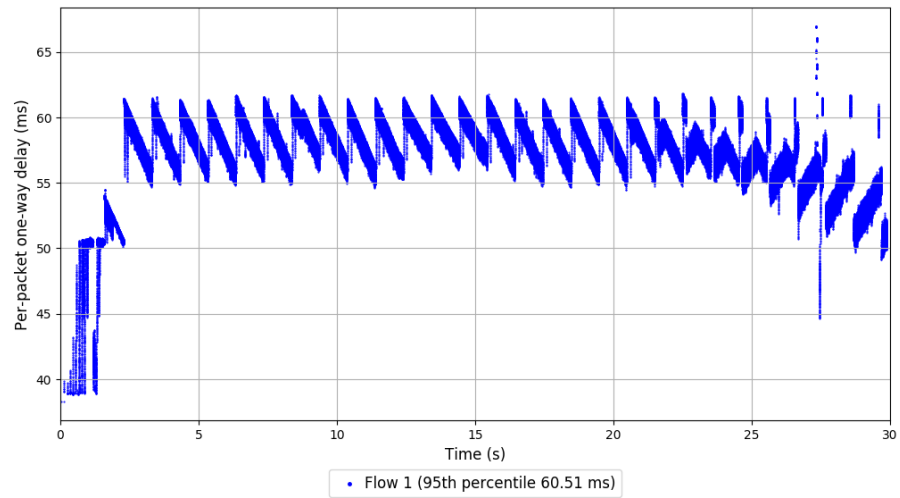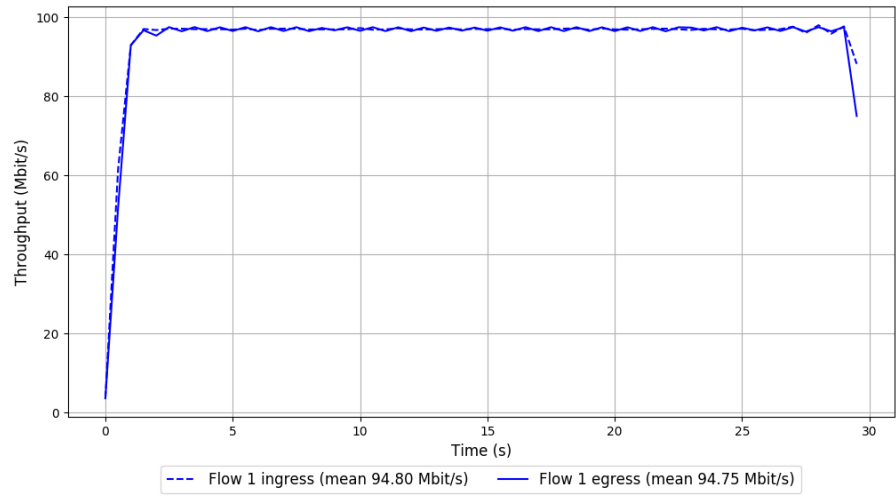
Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 94.80 Mbit/s)   Flow 1 egress (mean 94.75 Mbit/s)

Flow 1 (95th percentile 60.51 ms)

```
Run 6: Statistics of TCP Vegas

Start at: 2018-02-04 06:10:48
End at: 2018-02-04 06:11:18
Local clock offset: 1.057 ms
Remote clock offset: 6.124 ms


# Below is generated by plot.py at 2018-02-04 12:01:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 60.185 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 60.185 ms
Loss rate: 0.43%
```
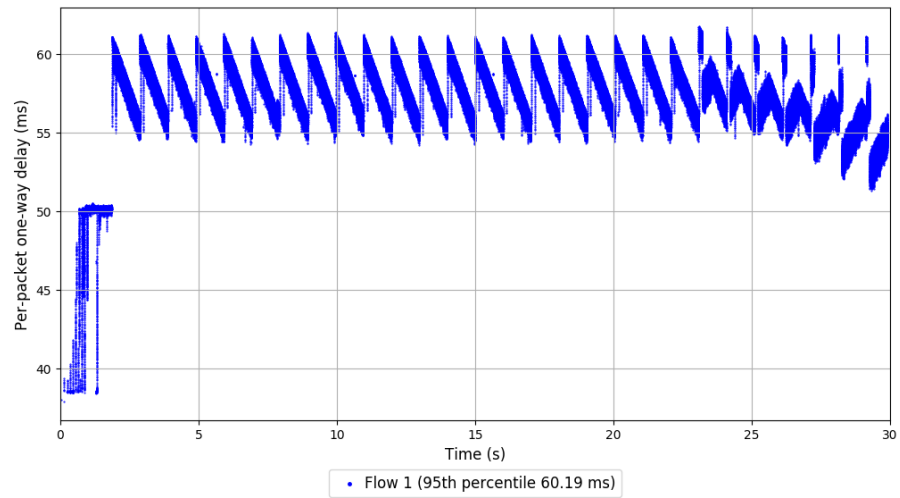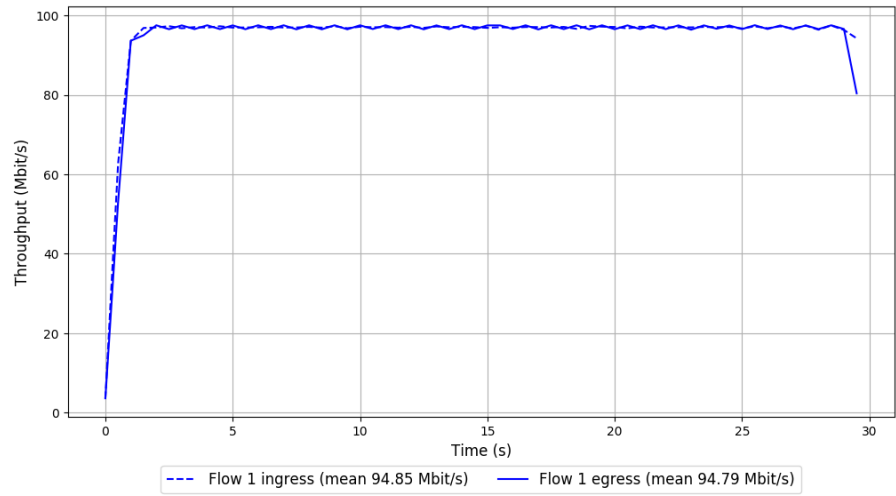
Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 94.85 Mbit/s) --- Flow 1 egress (mean 94.79 Mbit/s)

Flow 1 (95th percentile 60.19 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-02-04 06:32:36
End at: 2018-02-04 06:33:06
Local clock offset: 0.761 ms
Remote clock offset: 6.73 ms
```
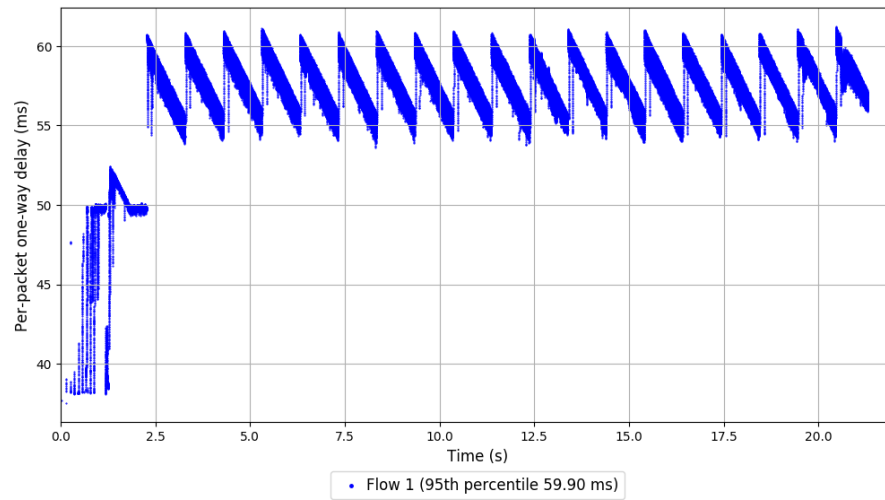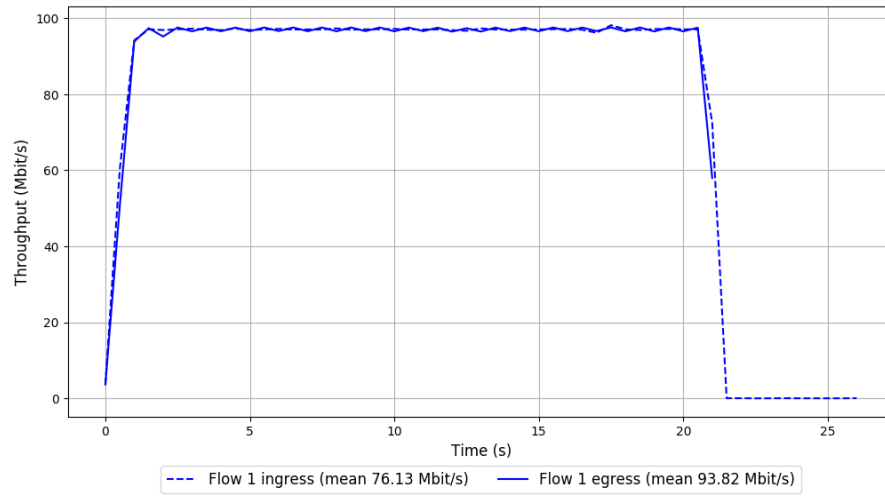
Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2018-02-04 06:57:50
End at: 2018-02-04 06:58:20
Local clock offset: 1.589 ms
Remote clock offset: 7.332 ms


# Below is generated by plot.py at 2018-02-04 12:01:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.77 Mbit/s
95th percentile per-packet one-way delay: 60.562 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 94.77 Mbit/s
95th percentile per-packet one-way delay: 60.562 ms
Loss rate: 0.40%
```
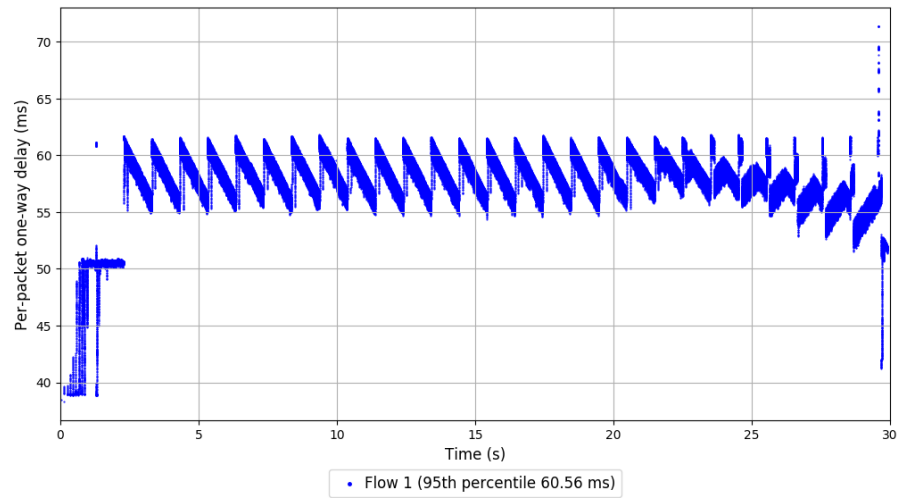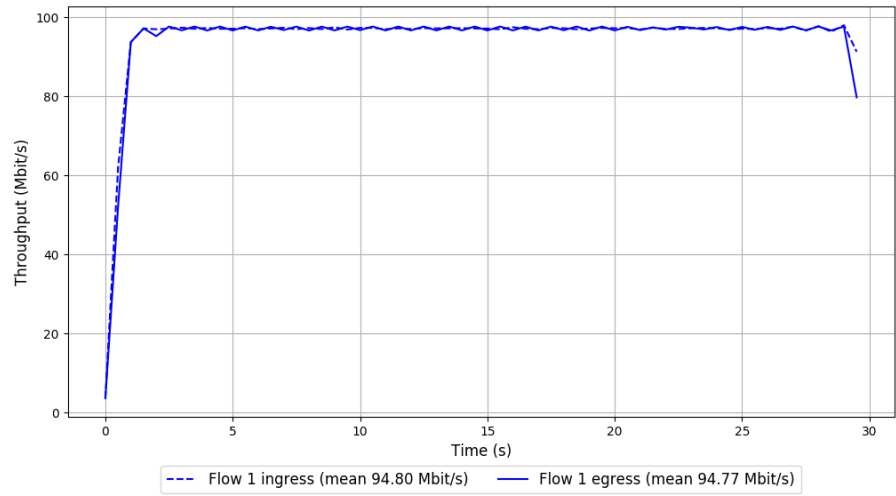
Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 94.80 Mbit/s)   Flow 1 egress (mean 94.77 Mbit/s)

Flow 1 (95th percentile 60.56 ms)

```
Run 9: Statistics of TCP Vegas

Start at: 2018-02-04 07:19:39
End at: 2018-02-04 07:20:09
Local clock offset: 1.206 ms
Remote clock offset: 8.44 ms


# Below is generated by plot.py at 2018-02-04 12:02:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 59.987 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 59.987 ms
Loss rate: 0.42%
```
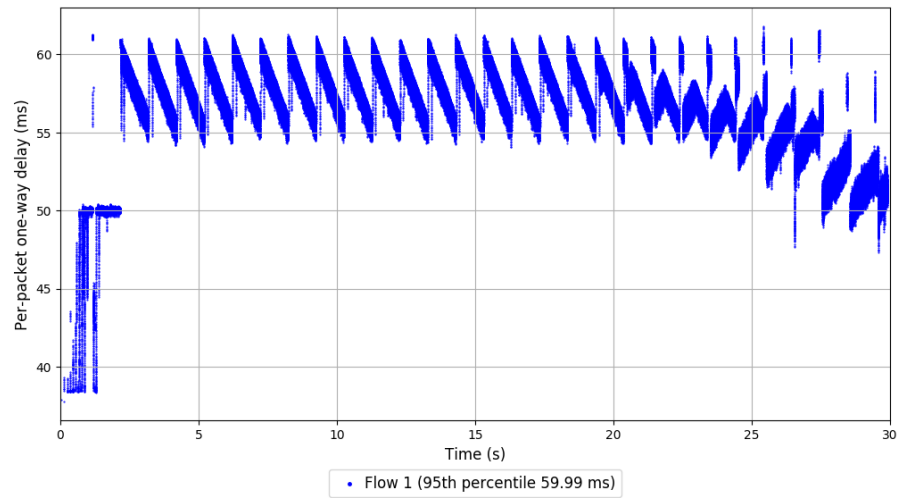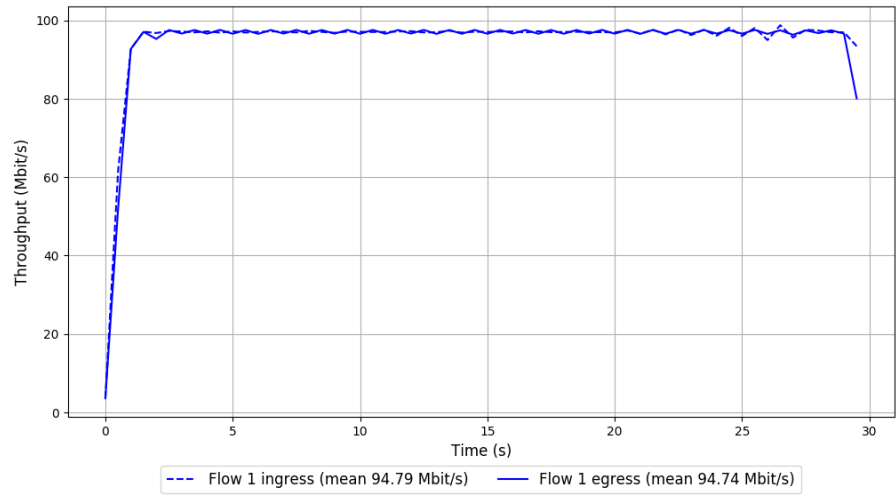
Run 9: Report of TCP Vegas — Data Link

```
Run 10: Statistics of TCP Vegas

Start at: 2018-02-04 07:41:27
End at: 2018-02-04 07:41:57
Local clock offset: 1.006 ms
Remote clock offset: 9.889 ms


# Below is generated by plot.py at 2018-02-04 12:02:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 59.959 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 59.959 ms
Loss rate: 0.43%
```
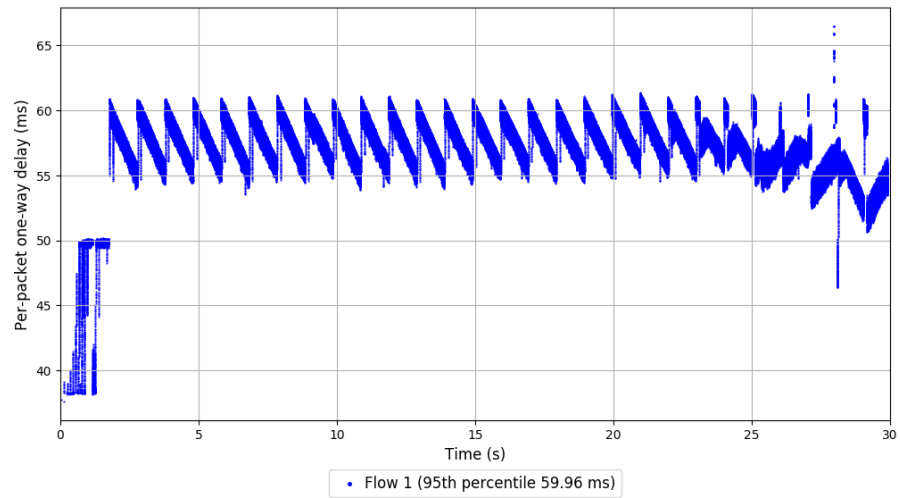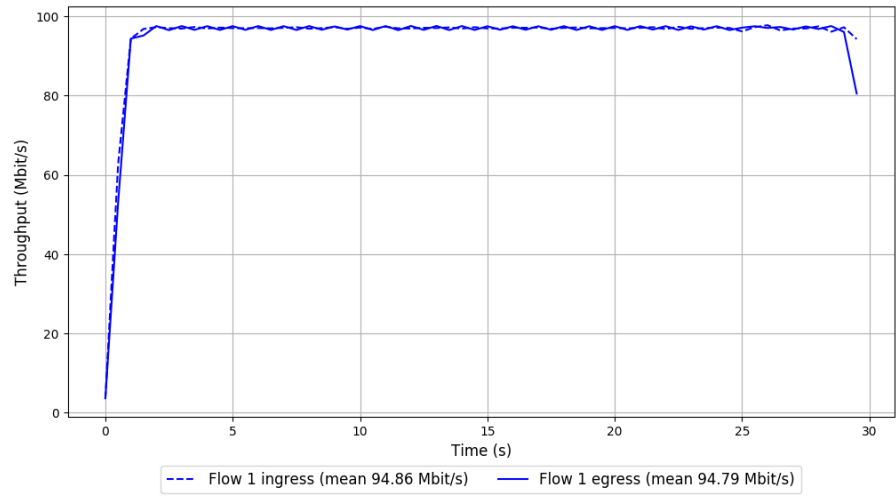
Run 10: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 94.86 Mbit/s) ----- Flow 1 egress (mean 94.79 Mbit/s)

Flow 1 (95th percentile 59.96 ms)

```
Run 1: Statistics of Verus

Start at: 2018-02-04 04:23:27
End at: 2018-02-04 04:23:57
Local clock offset: -0.473 ms
Remote clock offset: 2.298 ms


# Below is generated by plot.py at 2018-02-04 12:02:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 158.798 ms
Loss rate: 2.50%
-- Flow 1:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 158.798 ms
Loss rate: 2.50%
```
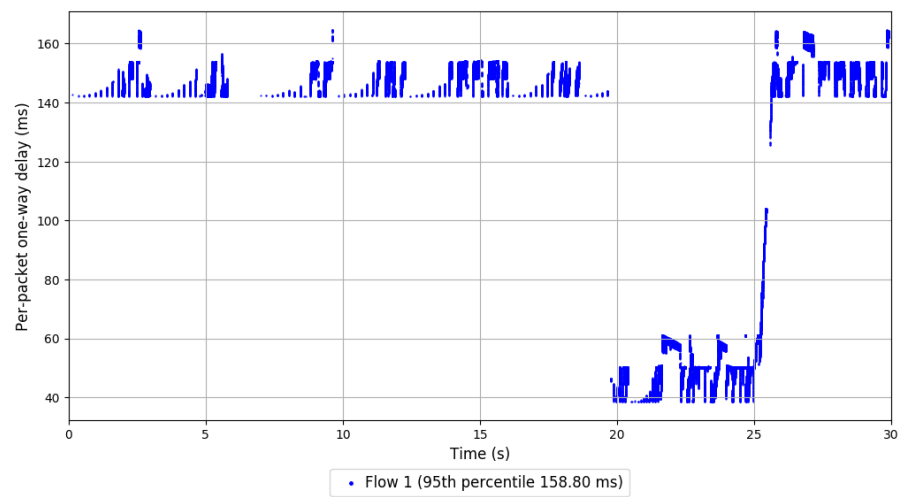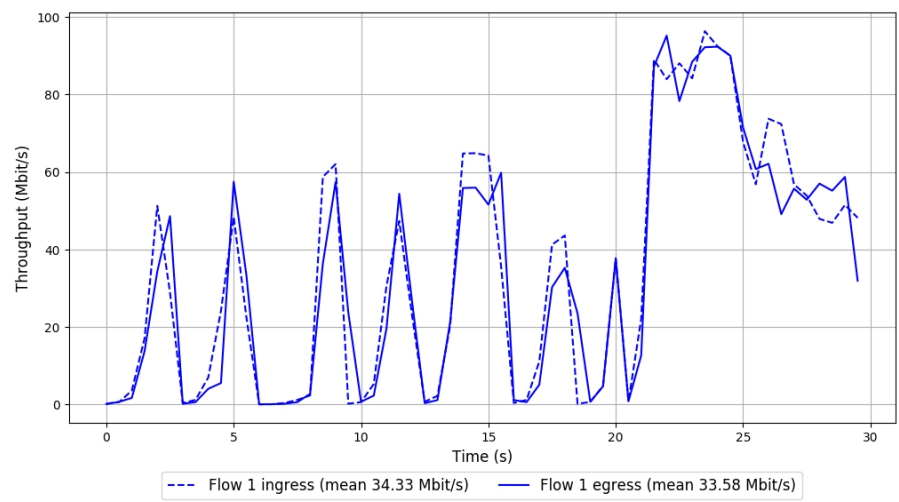
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2018-02-04 04:46:02
End at: 2018-02-04 04:46:32
Local clock offset: -0.108 ms
Remote clock offset: 3.106 ms

# Below is generated by plot.py at 2018-02-04 12:02:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.59 Mbit/s
95th percentile per-packet one-way delay: 59.062 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 66.59 Mbit/s
95th percentile per-packet one-way delay: 59.062 ms
Loss rate: 0.63%
```
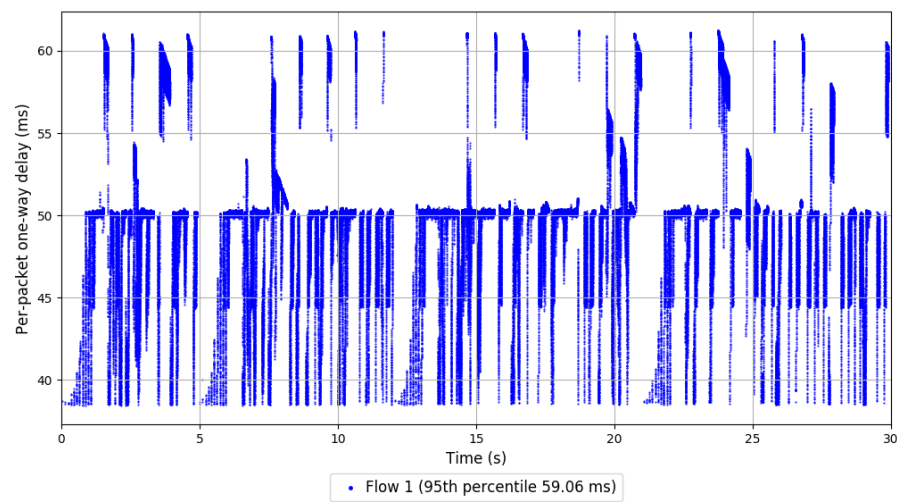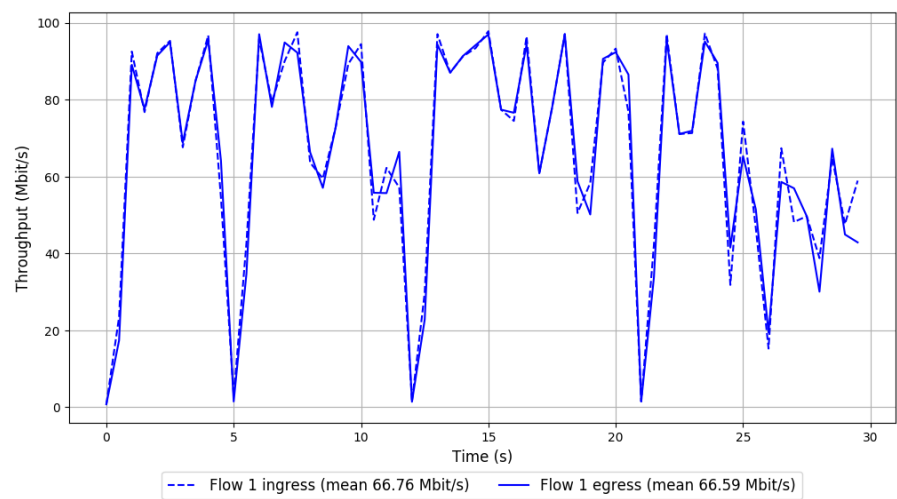
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2018-02-04 05:07:49
End at: 2018-02-04 05:08:20
Local clock offset: -0.229 ms
Remote clock offset: 4.003 ms


# Below is generated by plot.py at 2018-02-04 12:02:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.54 Mbit/s
95th percentile per-packet one-way delay: 59.237 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 65.54 Mbit/s
95th percentile per-packet one-way delay: 59.237 ms
Loss rate: 0.06%
```
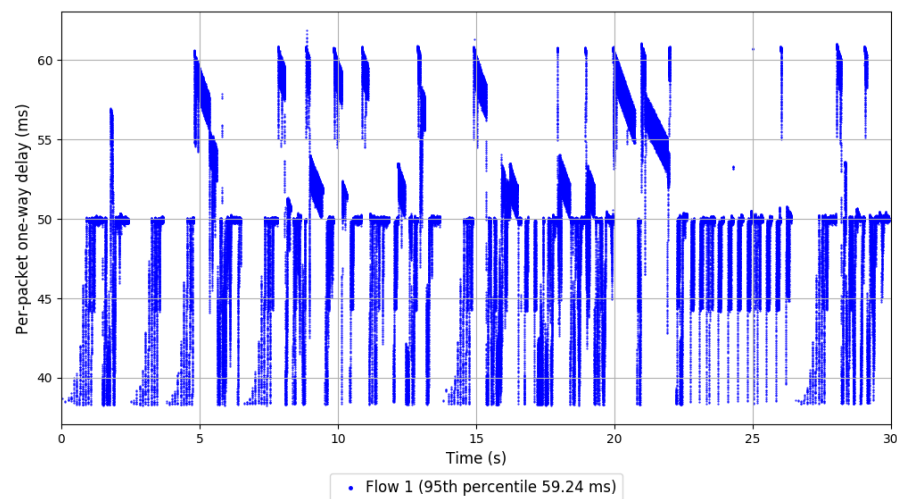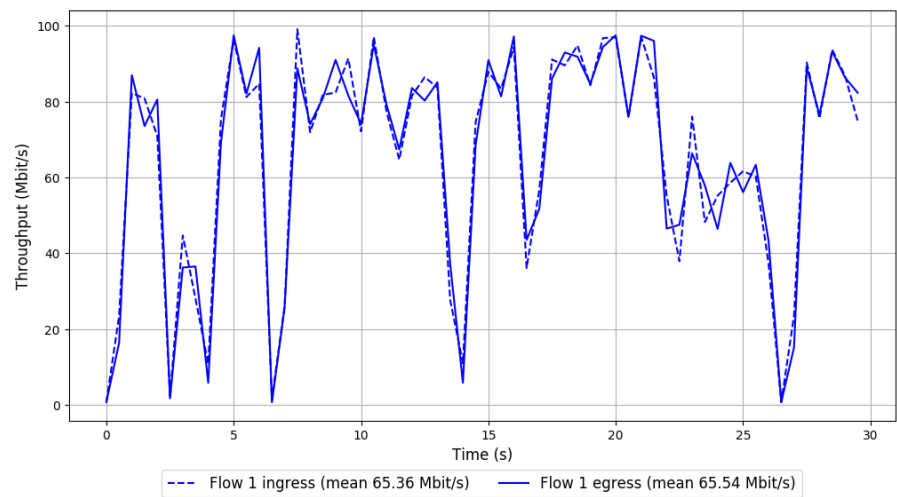
Run 3: Report of Verus — Data Link

Flow 1 ingress (mean 65.36 Mbit/s)   Flow 1 egress (mean 65.54 Mbit/s)

• Flow 1 (95th percentile 59.24 ms)

```
Run 4: Statistics of Verus

Start at: 2018-02-04 05:29:34
End at: 2018-02-04 05:30:04
Local clock offset: 0.175 ms
Remote clock offset: 4.934 ms


# Below is generated by plot.py at 2018-02-04 12:02:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.95 Mbit/s
95th percentile per-packet one-way delay: 59.243 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 55.95 Mbit/s
95th percentile per-packet one-way delay: 59.243 ms
Loss rate: 0.36%
```
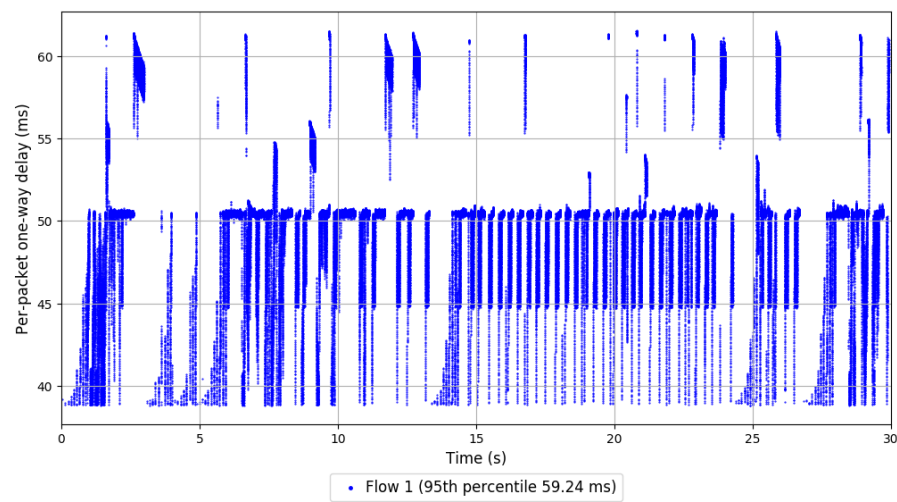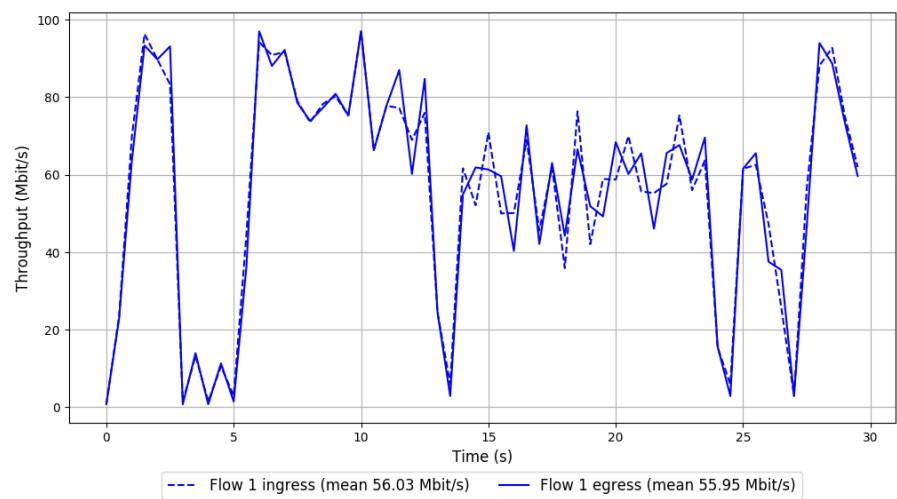
Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 56.03 Mbit/s)   Flow 1 egress (mean 55.95 Mbit/s)

Flow 1 (95th percentile 59.24 ms)
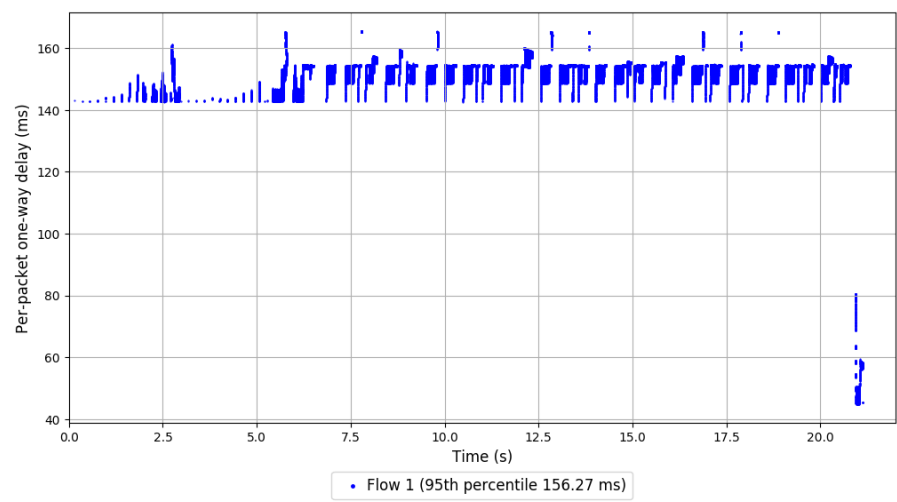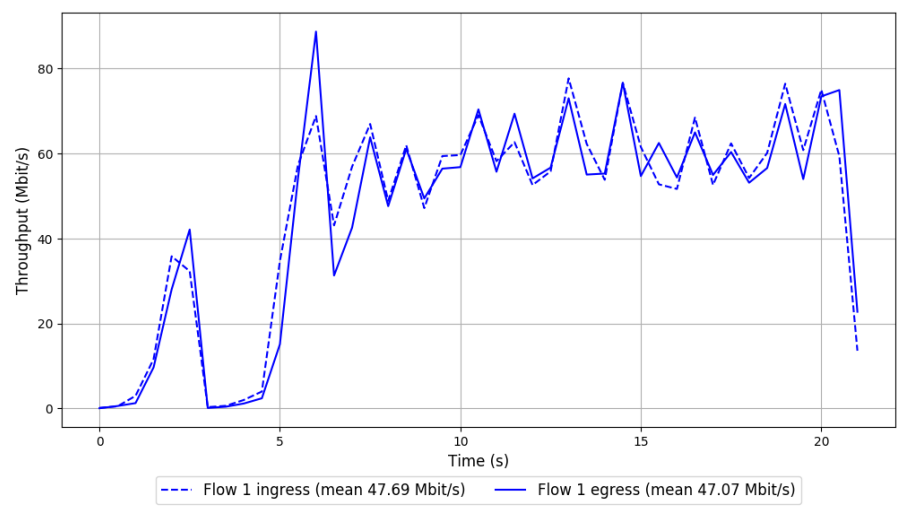
```
Run 5: Statistics of Verus

Start at: 2018-02-04 05:55:26
End at: 2018-02-04 05:55:56
Local clock offset: 0.711 ms
Remote clock offset: 6.105 ms
```

Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 47.69 Mbit/s) ----- Flow 1 egress (mean 47.07 Mbit/s)

• Flow 1 (95th percentile 156.27 ms)

```
Run 6: Statistics of Verus

Start at: 2018-02-04 06:21:47
End at: 2018-02-04 06:22:17
Local clock offset: 1.297 ms
Remote clock offset: 6.416 ms


# Below is generated by plot.py at 2018-02-04 12:02:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.42 Mbit/s
95th percentile per-packet one-way delay: 59.982 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 80.42 Mbit/s
95th percentile per-packet one-way delay: 59.982 ms
Loss rate: 0.49%
```
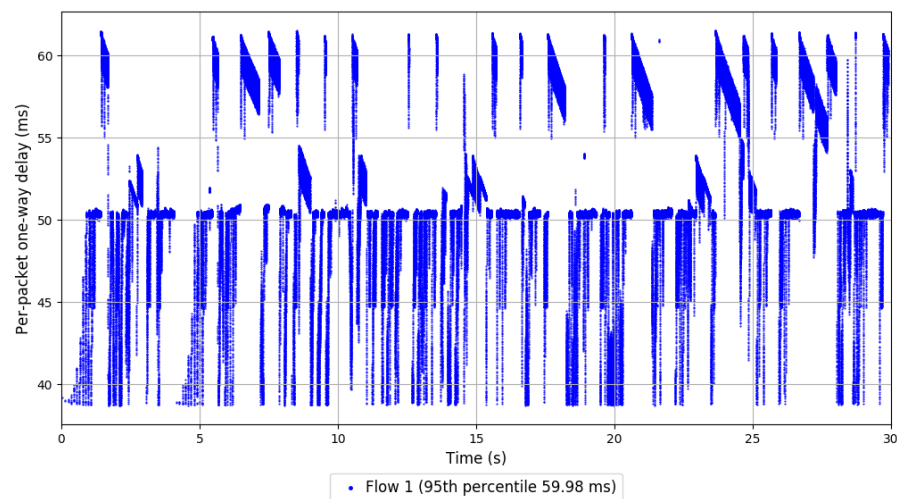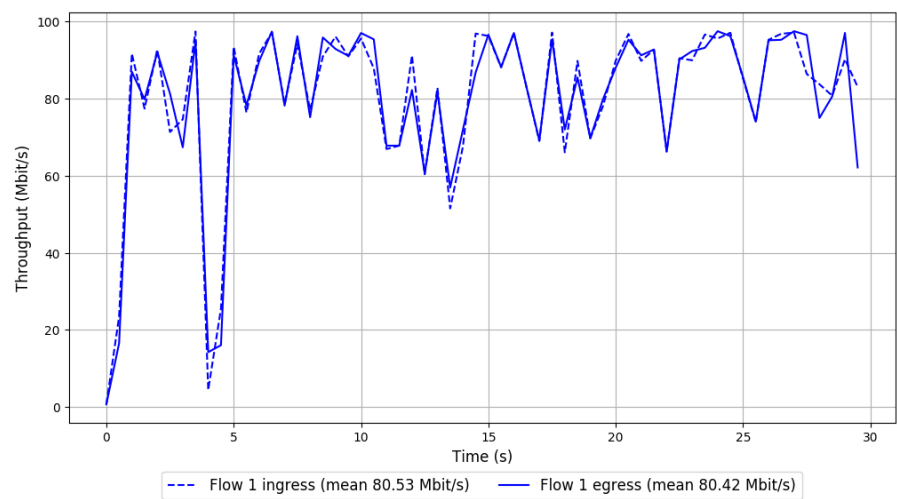
Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 80.53 Mbit/s)   Flow 1 egress (mean 80.42 Mbit/s)

Flow 1 (95th percentile 59.98 ms)

```
Run 7: Statistics of Verus

Start at: 2018-02-04 06:45:14
End at: 2018-02-04 06:45:44
Local clock offset: 1.247 ms
Remote clock offset: 7.198 ms


# Below is generated by plot.py at 2018-02-04 12:02:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.50 Mbit/s
95th percentile per-packet one-way delay: 60.172 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 70.50 Mbit/s
95th percentile per-packet one-way delay: 60.172 ms
Loss rate: 0.56%
```
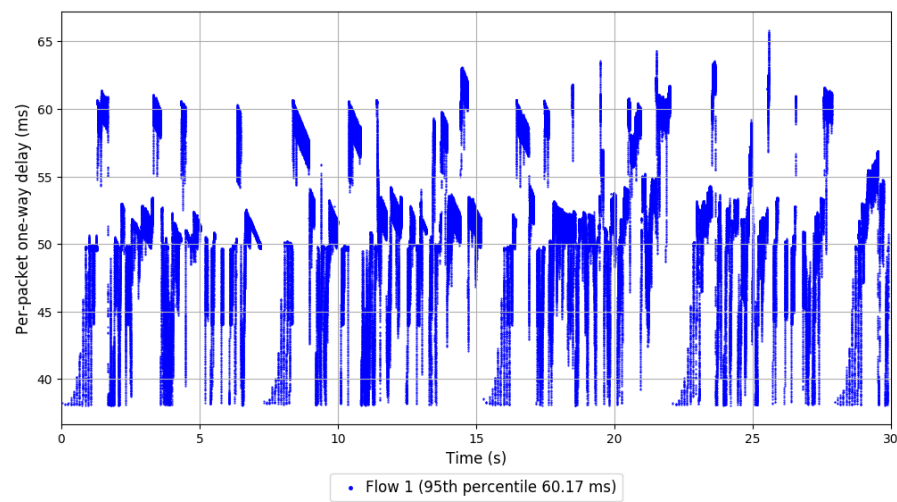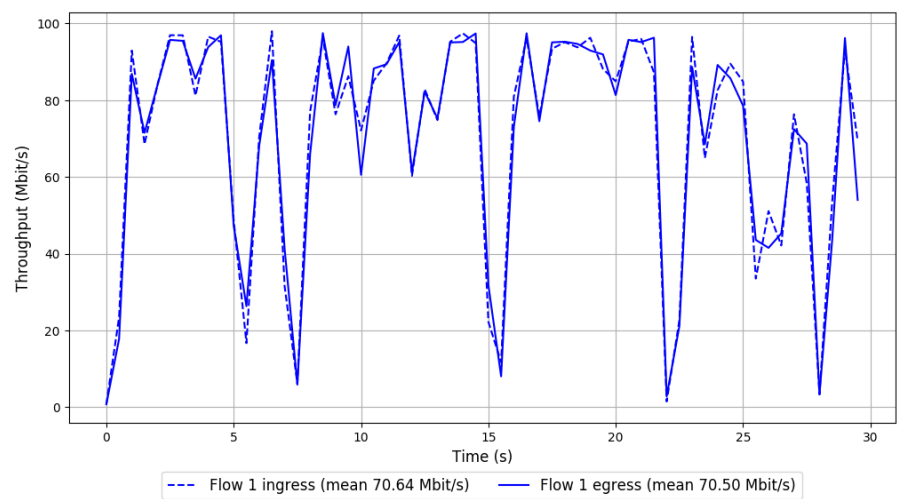
Run 7: Report of Verus — Data Link

Flow 1 ingress (mean 70.64 Mbit/s) ---- Flow 1 egress (mean 70.50 Mbit/s) ——

• Flow 1 (95th percentile 60.17 ms)

```
Run 8: Statistics of Verus

Start at: 2018-02-04 07:08:50
End at: 2018-02-04 07:09:20
Local clock offset: 1.264 ms
Remote clock offset: 7.843 ms


# Below is generated by plot.py at 2018-02-04 12:03:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 59.379 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 59.379 ms
Loss rate: 0.49%
```

Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 88.38 Mbit/s)   Flow 1 egress (mean 88.28 Mbit/s)

Flow 1 (95th percentile 59.38 ms)

```
Run 9: Statistics of Verus

Start at: 2018-02-04 07:30:37
End at: 2018-02-04 07:31:07
Local clock offset: 1.175 ms
Remote clock offset: 9.186 ms


# Below is generated by plot.py at 2018-02-04 12:03:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 59.594 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 77.04 Mbit/s
95th percentile per-packet one-way delay: 59.594 ms
Loss rate: 0.46%
```
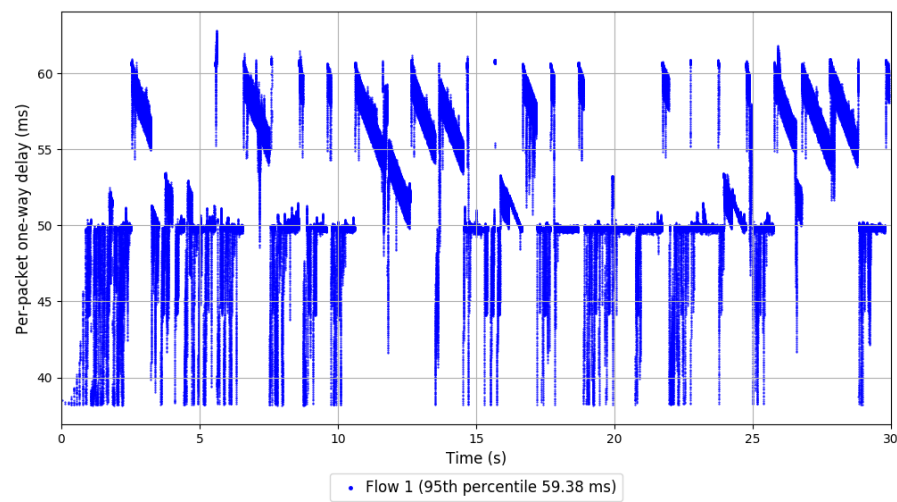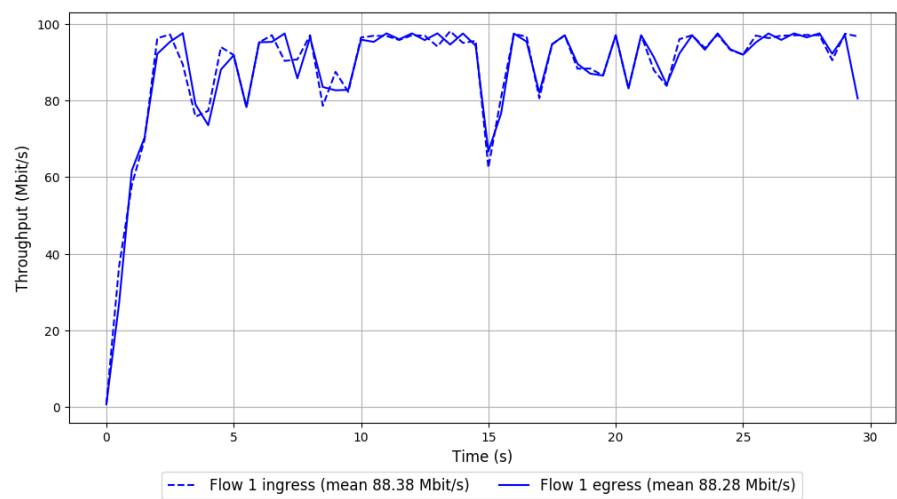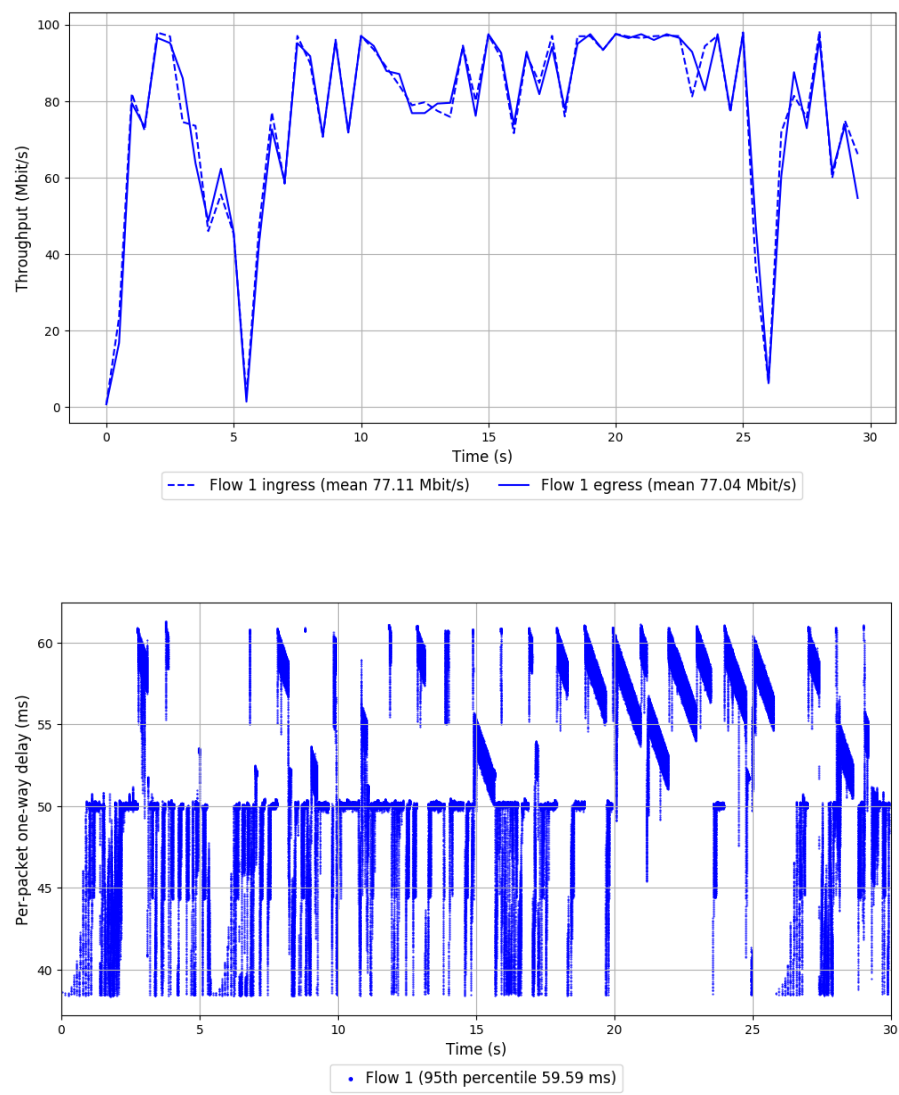
Run 9: Report of Verus — Data Link

Flow 1 ingress (mean 77.11 Mbit/s) ----   Flow 1 egress (mean 77.04 Mbit/s) ——

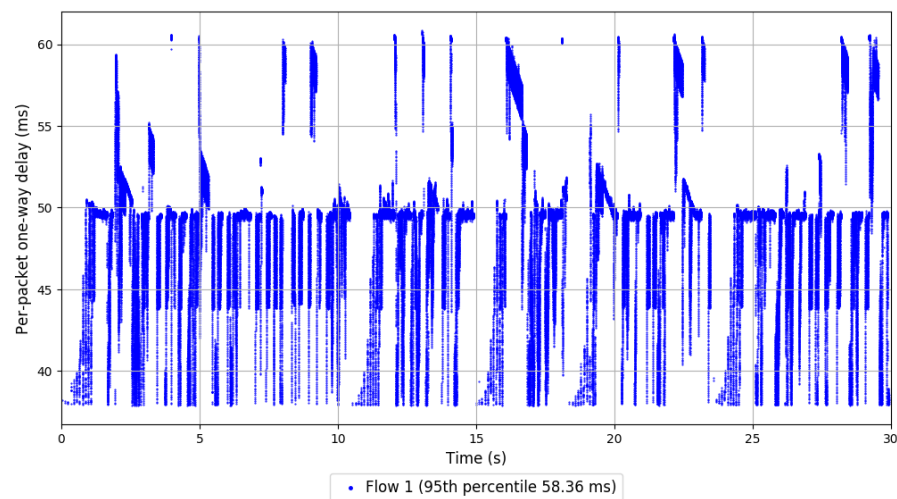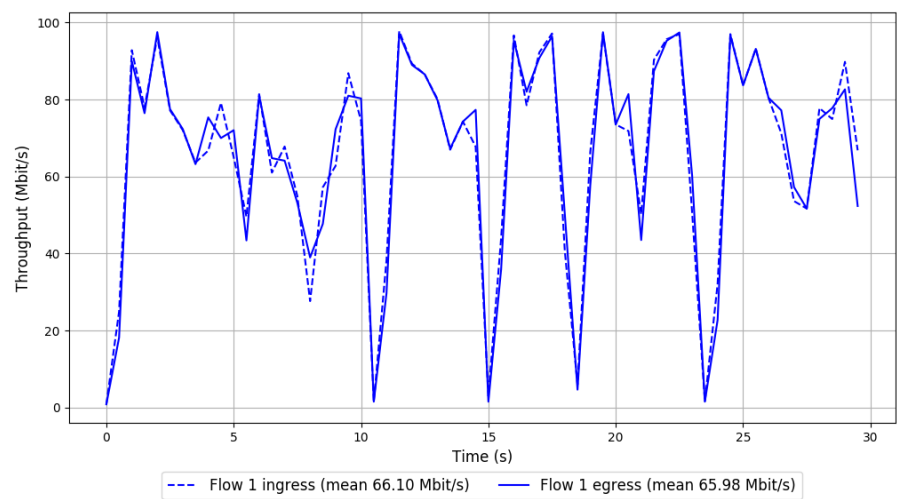

• Flow 1 (95th percentile 59.59 ms)

```
Run 10: Statistics of Verus

Start at: 2018-02-04 07:52:24
End at: 2018-02-04 07:52:54
Local clock offset: 0.579 ms
Remote clock offset: 10.243 ms


# Below is generated by plot.py at 2018-02-04 12:03:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.98 Mbit/s
95th percentile per-packet one-way delay: 58.363 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 65.98 Mbit/s
95th percentile per-packet one-way delay: 58.363 ms
Loss rate: 0.55%
```

Run 10: Report of Verus — Data Link

Flow 1 ingress (mean 66.10 Mbit/s)   Flow 1 egress (mean 65.98 Mbit/s)

• Flow 1 (95th percentile 58.36 ms)

```
Run 1: Statistics of Copa

Start at: 2018-02-04 04:31:27
End at: 2018-02-04 04:31:58
Local clock offset: -0.343 ms
Remote clock offset: 2.517 ms


# Below is generated by plot.py at 2018-02-04 12:03:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.00 Mbit/s
95th percentile per-packet one-way delay: 38.298 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 42.00 Mbit/s
95th percentile per-packet one-way delay: 38.298 ms
Loss rate: 0.31%
```
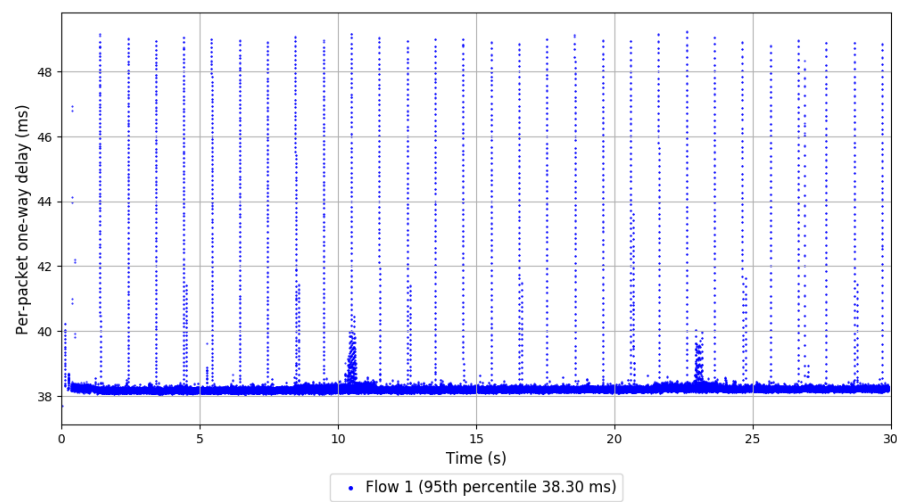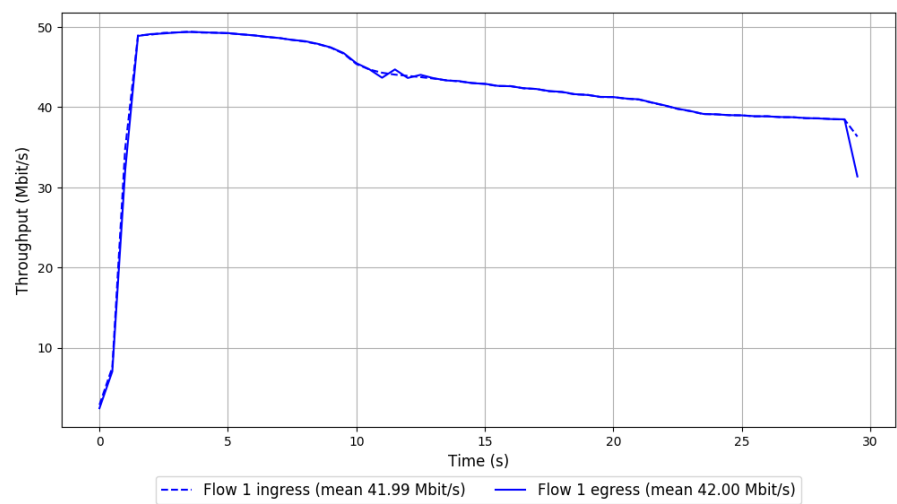
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 41.99 Mbit/s)   Flow 1 egress (mean 42.00 Mbit/s)

Flow 1 (95th percentile 38.30 ms)

```
Run 2: Statistics of Copa

Start at: 2018-02-04 04:53:16
End at: 2018-02-04 04:53:46
Local clock offset: -0.069 ms
Remote clock offset: 3.346 ms

# Below is generated by plot.py at 2018-02-04 12:03:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.16 Mbit/s
95th percentile per-packet one-way delay: 38.657 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 39.16 Mbit/s
95th percentile per-packet one-way delay: 38.657 ms
Loss rate: 0.37%
```
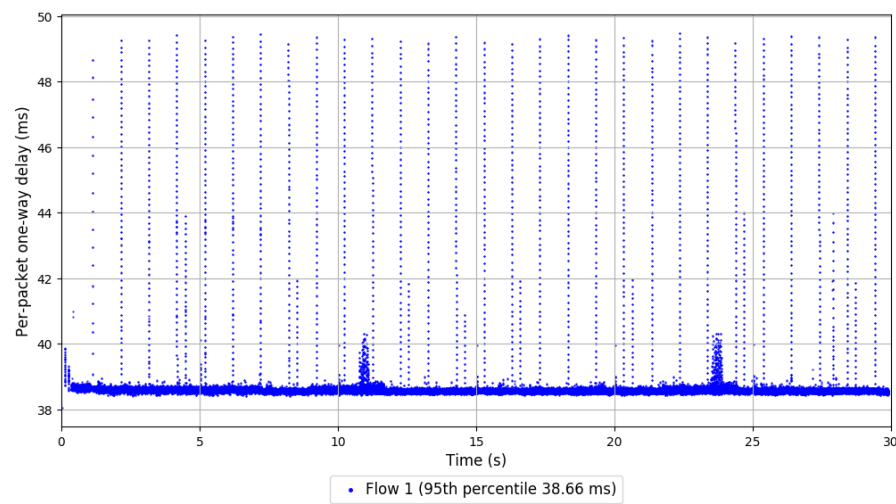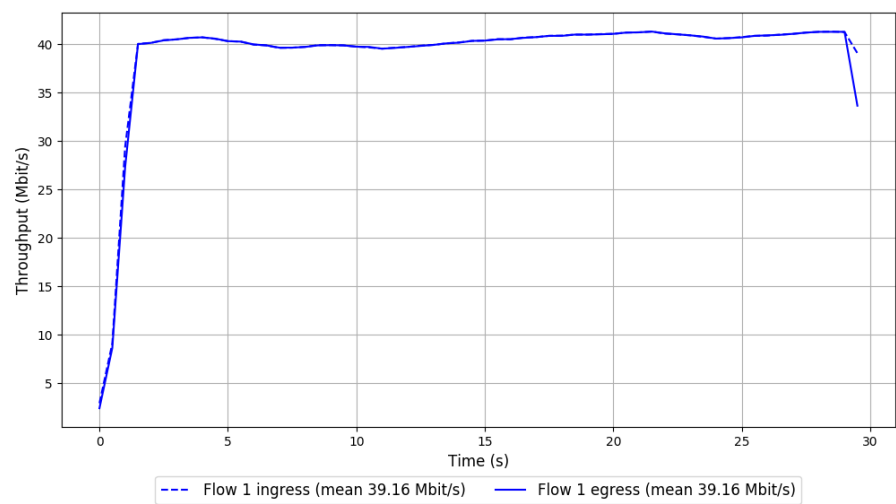
Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 39.16 Mbit/s)   Flow 1 egress (mean 39.16 Mbit/s)

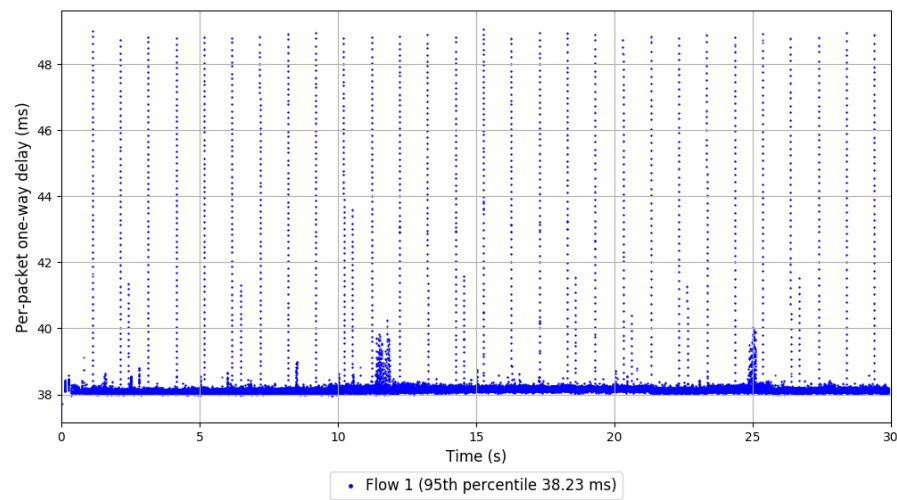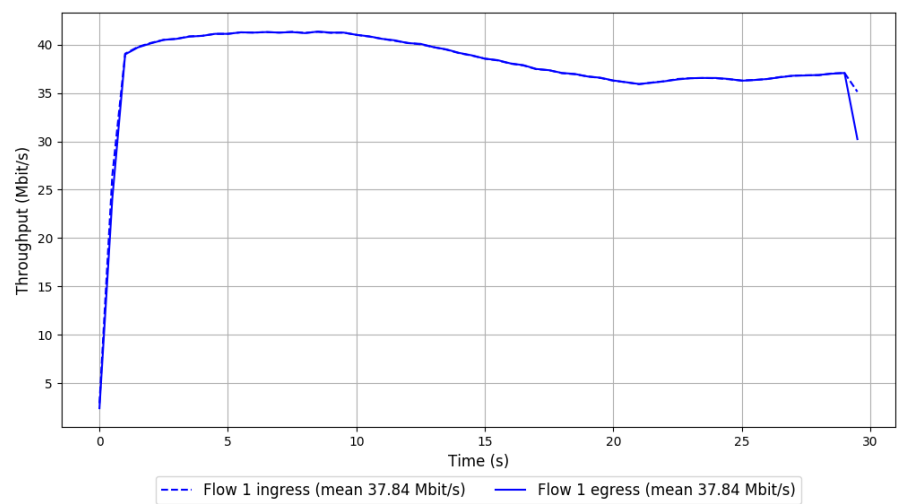

• Flow 1 (95th percentile 38.66 ms)

```
Run 3: Statistics of Copa

Start at: 2018-02-04 05:15:03
End at: 2018-02-04 05:15:33
Local clock offset: -0.273 ms
Remote clock offset: 4.367 ms


# Below is generated by plot.py at 2018-02-04 12:03:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.84 Mbit/s
95th percentile per-packet one-way delay: 38.228 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 37.84 Mbit/s
95th percentile per-packet one-way delay: 38.228 ms
Loss rate: 0.34%
```

Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2018-02-04 05:36:47
End at: 2018-02-04 05:37:17
Local clock offset: -0.105 ms
Remote clock offset: 5.296 ms


# Below is generated by plot.py at 2018-02-04 12:03:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.05 Mbit/s
95th percentile per-packet one-way delay: 37.926 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 45.05 Mbit/s
95th percentile per-packet one-way delay: 37.926 ms
Loss rate: 0.35%
```
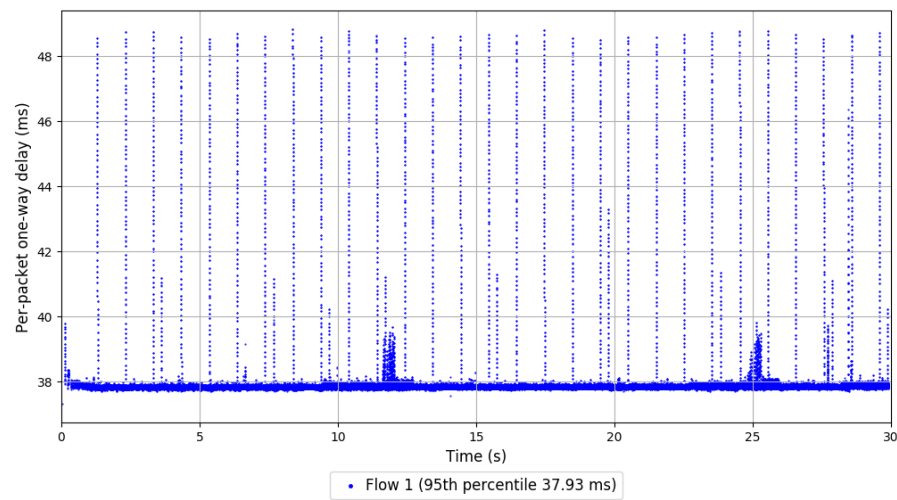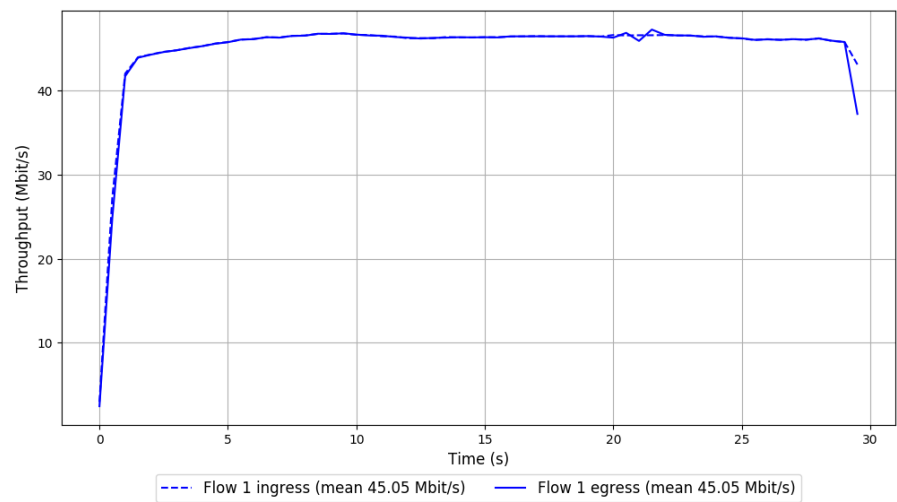
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2018-02-04 06:05:58
End at: 2018-02-04 06:06:28
Local clock offset: 0.906 ms
Remote clock offset: 6.121 ms


# Below is generated by plot.py at 2018-02-04 12:03:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 142.615 ms
Loss rate: 13.20%
-- Flow 1:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 142.615 ms
Loss rate: 13.20%
```
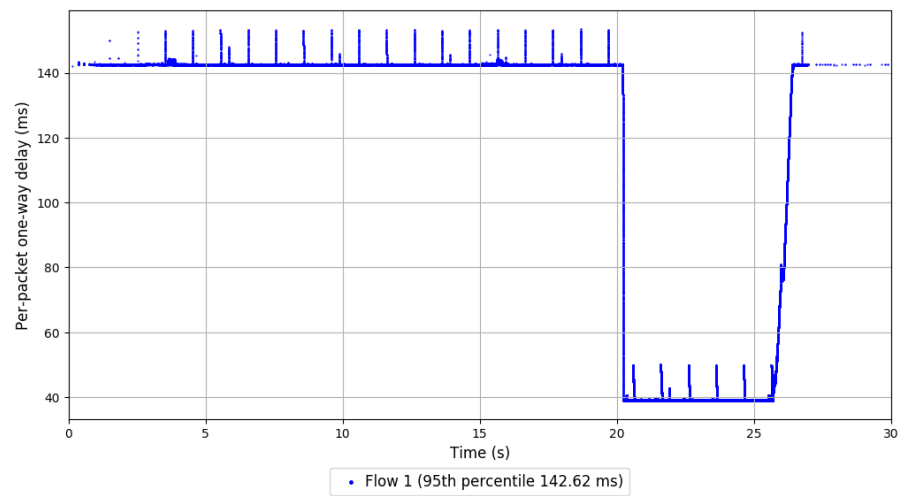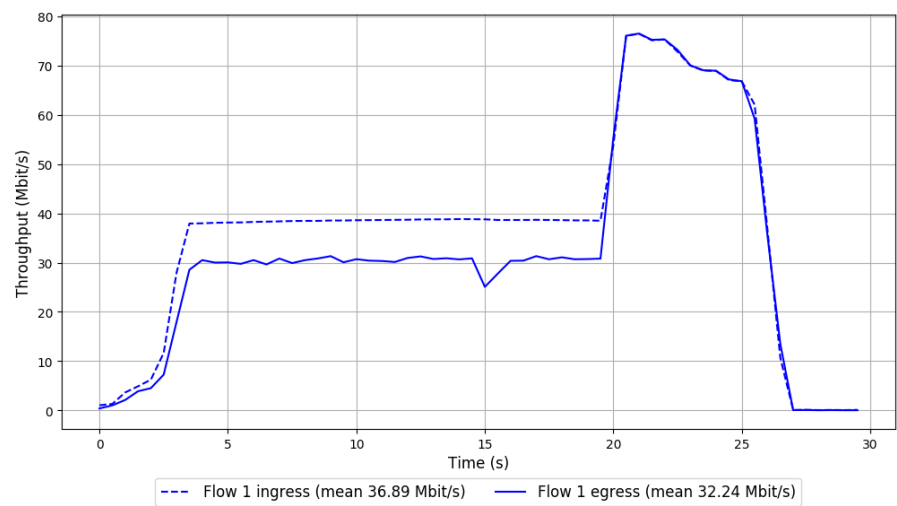
Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 36.89 Mbit/s)   Flow 1 egress (mean 32.24 Mbit/s)

• Flow 1 (95th percentile 142.62 ms)

```
Run 6: Statistics of Copa

Start at: 2018-02-04 06:29:00
End at: 2018-02-04 06:29:30
Local clock offset: 0.926 ms
Remote clock offset: 6.657 ms


# Below is generated by plot.py at 2018-02-04 12:04:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 38.791 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 41.53 Mbit/s
95th percentile per-packet one-way delay: 38.791 ms
Loss rate: 0.33%
```
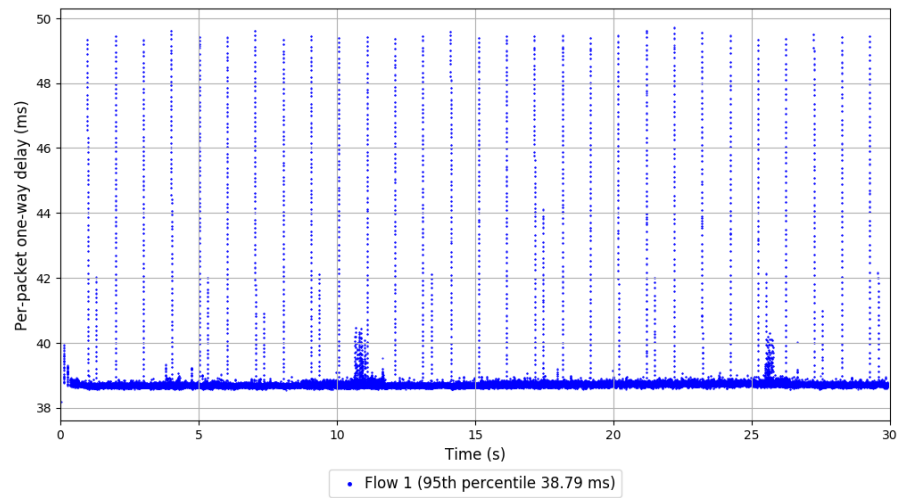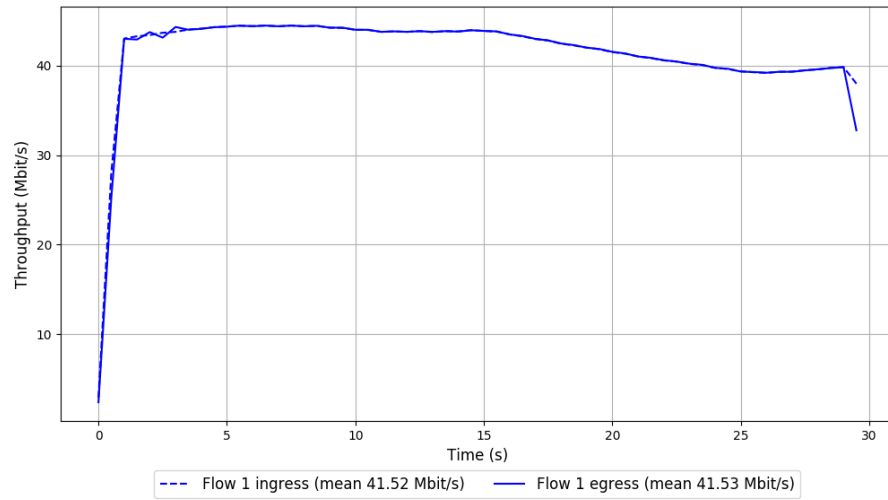
Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 41.52 Mbit/s) --- Flow 1 egress (mean 41.53 Mbit/s)

• Flow 1 (95th percentile 38.79 ms)

```
Run 7: Statistics of Copa

Start at: 2018-02-04 06:53:40
End at: 2018-02-04 06:54:10
Local clock offset: 0.769 ms
Remote clock offset: 7.208 ms
```
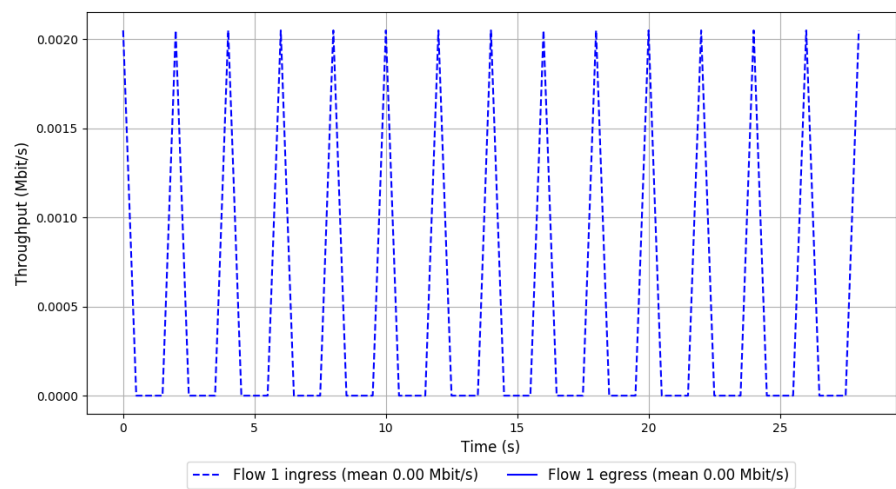
Run 7: Report of Copa — Data Link

Figure is missing

```
Run 8: Statistics of Copa

Start at: 2018-02-04 07:16:04
End at: 2018-02-04 07:16:34
Local clock offset: 1.283 ms
Remote clock offset: 8.18 ms


# Below is generated by plot.py at 2018-02-04 12:04:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 38.961 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 39.27 Mbit/s
95th percentile per-packet one-way delay: 38.961 ms
Loss rate: 0.38%
```
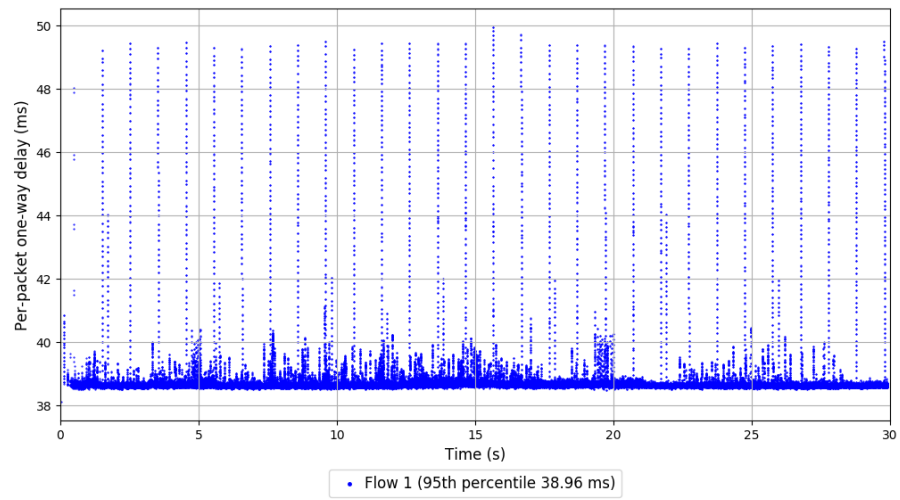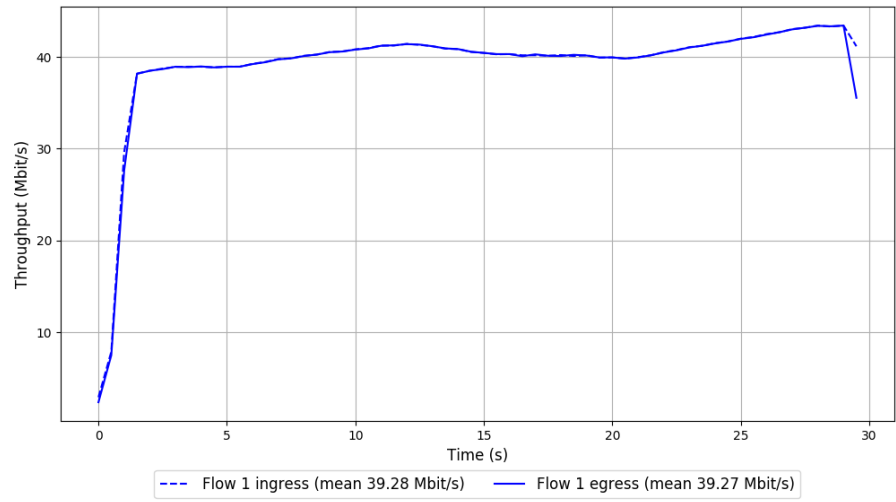
Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 39.28 Mbit/s) --- Flow 1 egress (mean 39.27 Mbit/s)

Flow 1 (95th percentile 38.96 ms)

```
Run 9: Statistics of Copa

Start at: 2018-02-04 07:37:51
End at: 2018-02-04 07:38:21
Local clock offset: 0.942 ms
Remote clock offset: 9.702 ms


# Below is generated by plot.py at 2018-02-04 12:04:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.29 Mbit/s
95th percentile per-packet one-way delay: 38.660 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 42.29 Mbit/s
95th percentile per-packet one-way delay: 38.660 ms
Loss rate: 0.26%
```
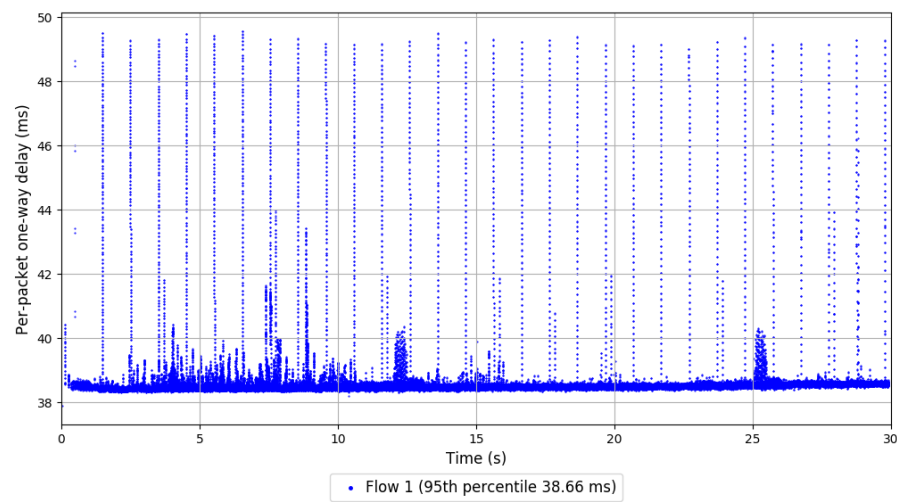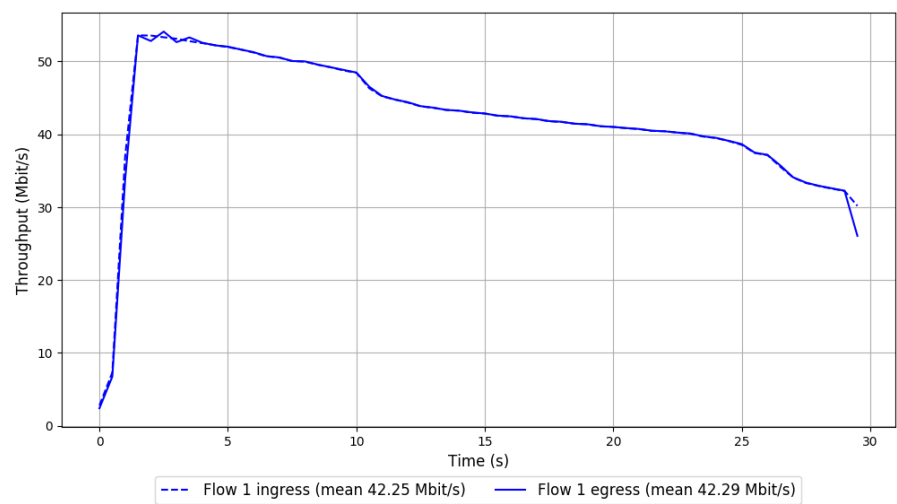
Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 42.25 Mbit/s) --- Flow 1 egress (mean 42.29 Mbit/s)

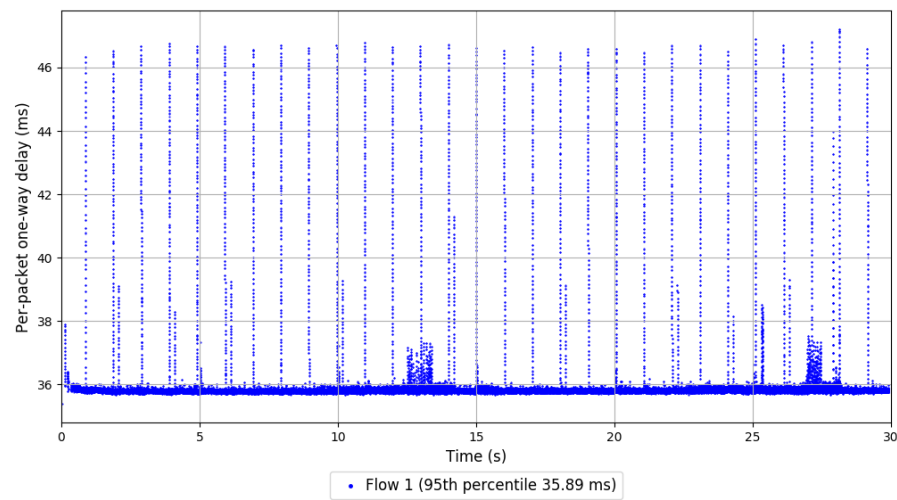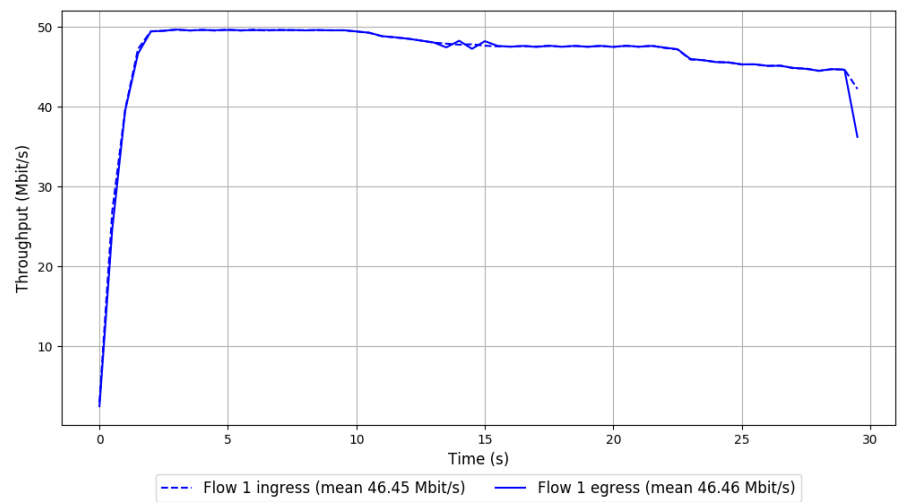

• Flow 1 (95th percentile 38.66 ms)

```
Run 10: Statistics of Copa

Start at: 2018-02-04 07:59:37
End at: 2018-02-04 08:00:07
Local clock offset: -1.88 ms
Remote clock offset: 10.456 ms


# Below is generated by plot.py at 2018-02-04 12:04:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.46 Mbit/s
95th percentile per-packet one-way delay: 35.886 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 46.46 Mbit/s
95th percentile per-packet one-way delay: 35.886 ms
Loss rate: 0.33%
```

Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 46.45 Mbit/s) — Flow 1 egress (mean 46.46 Mbit/s)

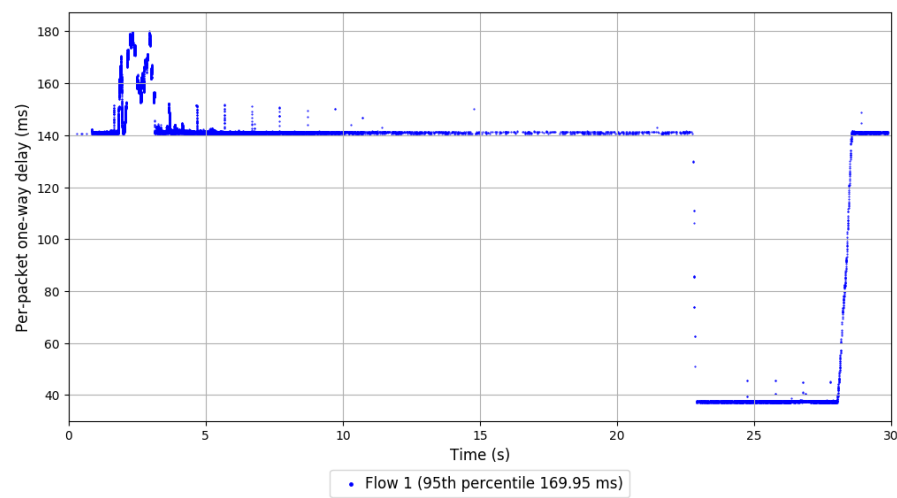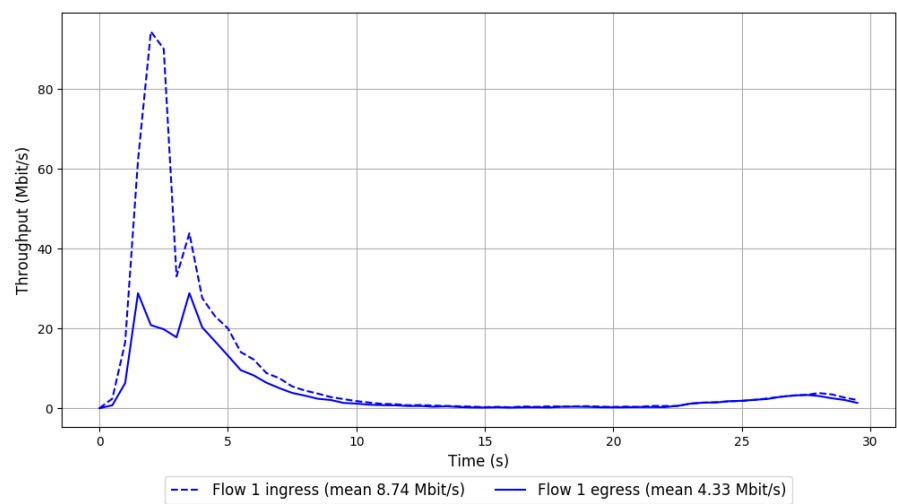• Flow 1 (95th percentile 35.89 ms)

243

```
Run 1: Statistics of FillP

Start at: 2018-02-04 04:19:18
End at: 2018-02-04 04:19:48
Local clock offset: -1.036 ms
Remote clock offset: 2.184 ms


# Below is generated by plot.py at 2018-02-04 12:04:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 169.950 ms
Loss rate: 51.08%
-- Flow 1:
Average throughput: 4.33 Mbit/s
95th percentile per-packet one-way delay: 169.950 ms
Loss rate: 51.08%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 8.74 Mbit/s) --- Flow 1 egress (mean 4.33 Mbit/s)

Flow 1 (95th percentile 169.95 ms)

```
Run 2: Statistics of FillP

Start at: 2018-02-04 04:43:33
End at: 2018-02-04 04:44:03
Local clock offset: 0.052 ms
Remote clock offset: 2.927 ms


# Below is generated by plot.py at 2018-02-04 12:05:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.58 Mbit/s
95th percentile per-packet one-way delay: 50.030 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 86.58 Mbit/s
95th percentile per-packet one-way delay: 50.030 ms
Loss rate: 0.38%
```
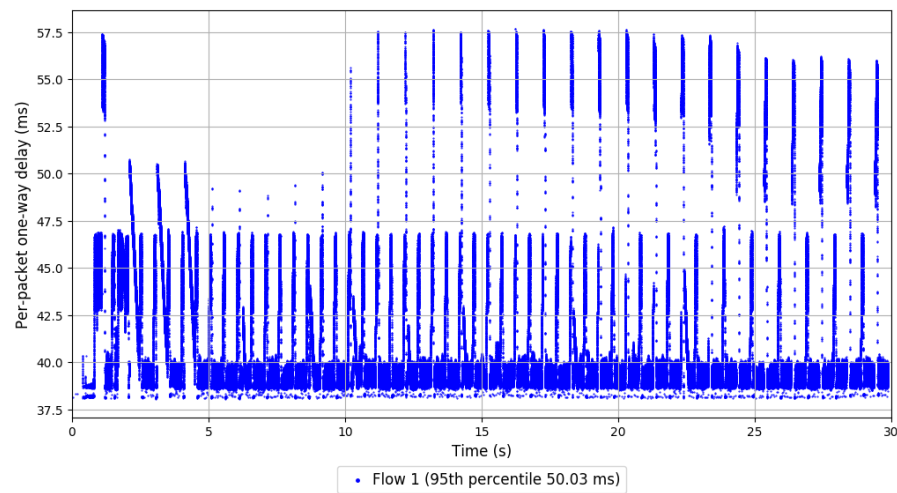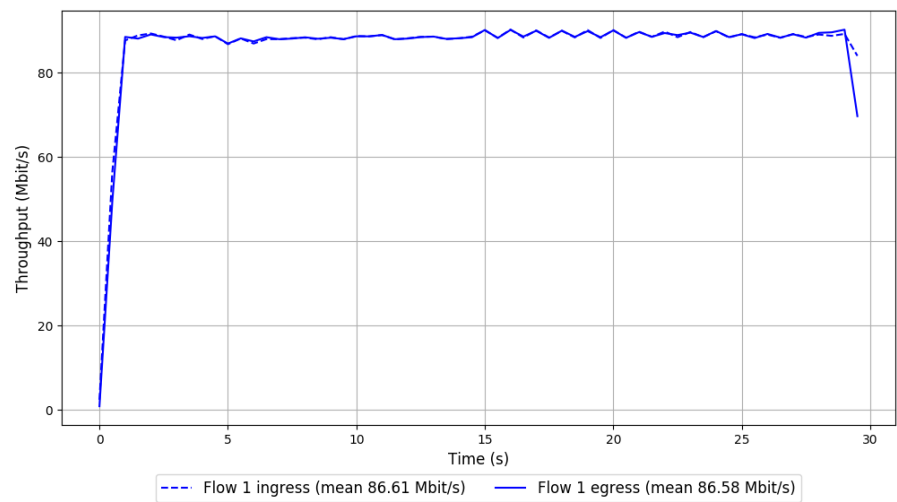
Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 86.61 Mbit/s) — — — Flow 1 egress (mean 86.58 Mbit/s)

Flow 1 (95th percentile 50.03 ms)

```
Run 3: Statistics of FillP

Start at: 2018-02-04 05:05:20
End at: 2018-02-04 05:05:50
Local clock offset: 0.089 ms
Remote clock offset: 3.883 ms


# Below is generated by plot.py at 2018-02-04 12:05:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.45 Mbit/s
95th percentile per-packet one-way delay: 49.140 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 86.45 Mbit/s
95th percentile per-packet one-way delay: 49.140 ms
Loss rate: 0.40%
```
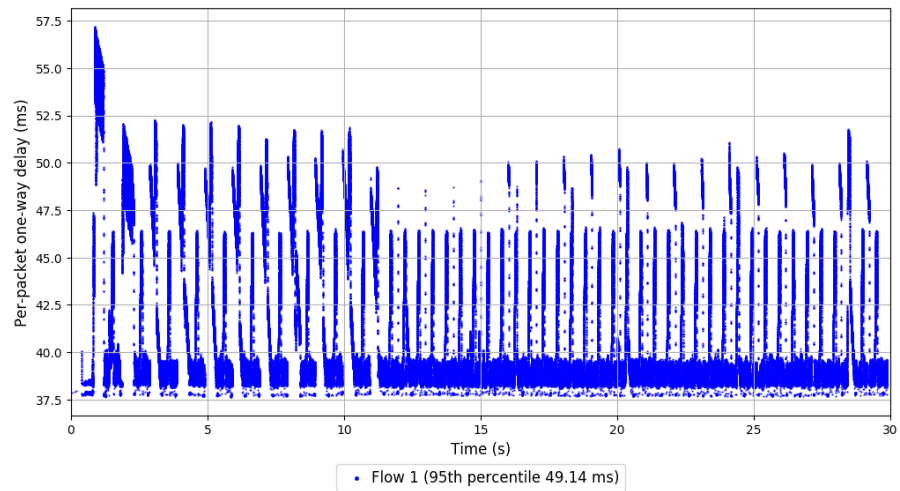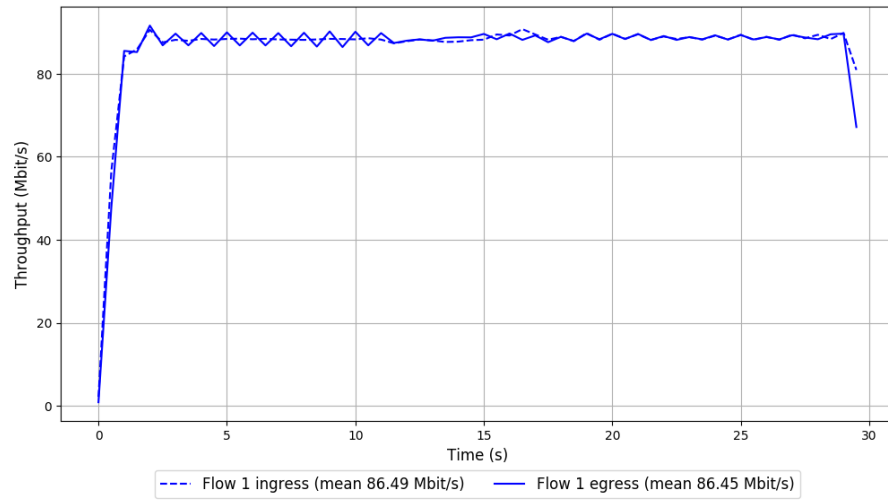
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 86.49 Mbit/s) Flow 1 egress (mean 86.45 Mbit/s)

Flow 1 (95th percentile 49.14 ms)

```
Run 4: Statistics of FillP

Start at: 2018-02-04 05:27:04
End at: 2018-02-04 05:27:35
Local clock offset: 0.46 ms
Remote clock offset: 4.855 ms


# Below is generated by plot.py at 2018-02-04 12:06:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 49.563 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 49.563 ms
Loss rate: 0.38%
```
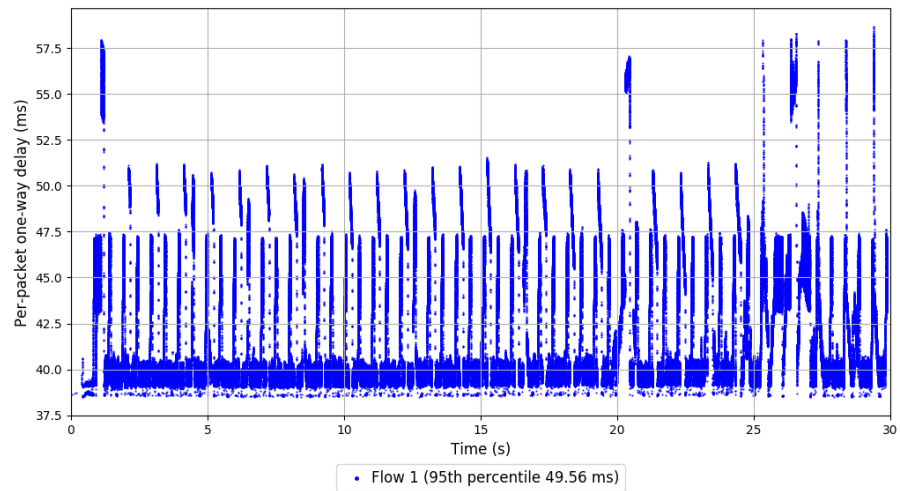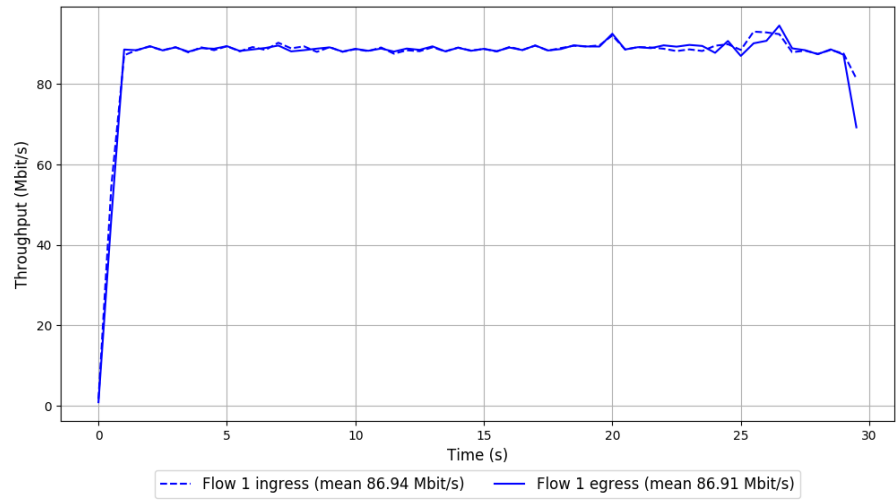
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 86.94 Mbit/s)   Flow 1 egress (mean 86.91 Mbit/s)

Flow 1 (95th percentile 49.56 ms)

```
Run 5: Statistics of FillP

Start at: 2018-02-04 05:49:35
End at: 2018-02-04 05:50:05
Local clock offset: 0.035 ms
Remote clock offset: 5.922 ms


# Below is generated by plot.py at 2018-02-04 12:06:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 153.252 ms
Loss rate: 2.93%
-- Flow 1:
Average throughput: 81.67 Mbit/s
95th percentile per-packet one-way delay: 153.252 ms
Loss rate: 2.93%
```
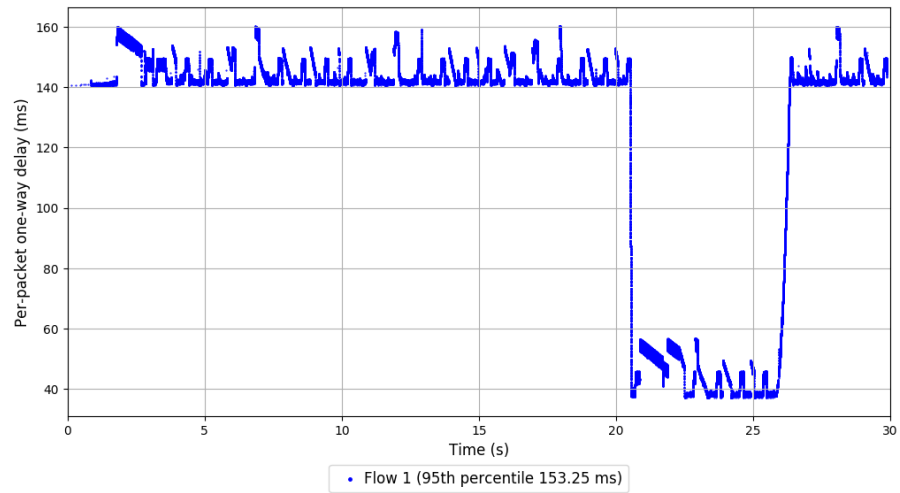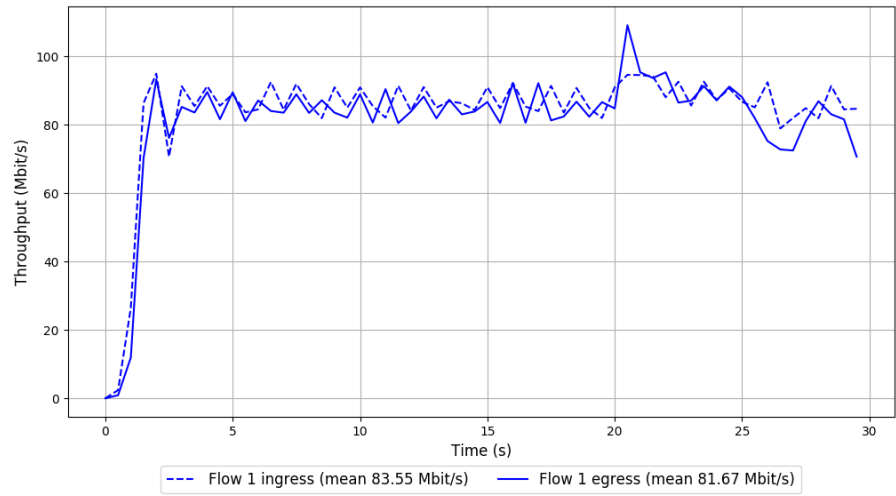
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 83.55 Mbit/s)   Flow 1 egress (mean 81.67 Mbit/s)

• Flow 1 (95th percentile 153.25 ms)

253

```
Run 6: Statistics of FillP

Start at: 2018-02-04 06:19:17
End at: 2018-02-04 06:19:47
Local clock offset: 0.95 ms
Remote clock offset: 6.274 ms


# Below is generated by plot.py at 2018-02-04 12:06:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 53.104 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 53.104 ms
Loss rate: 0.40%
```
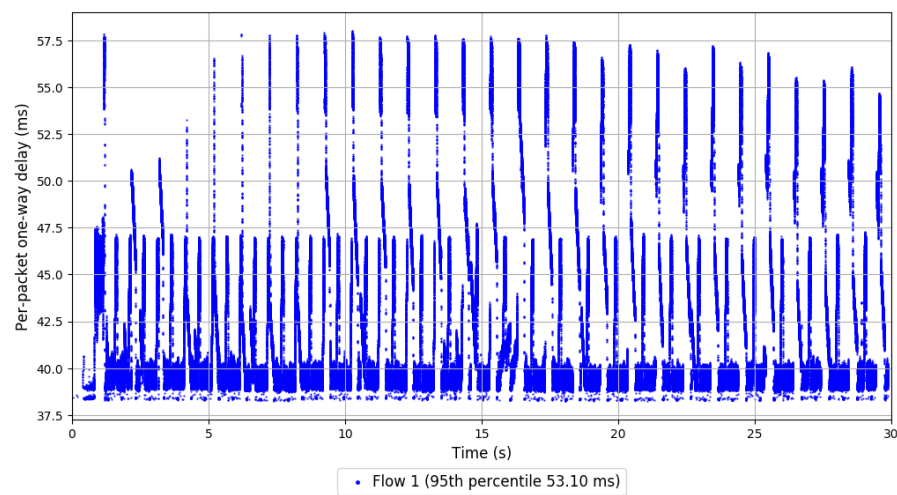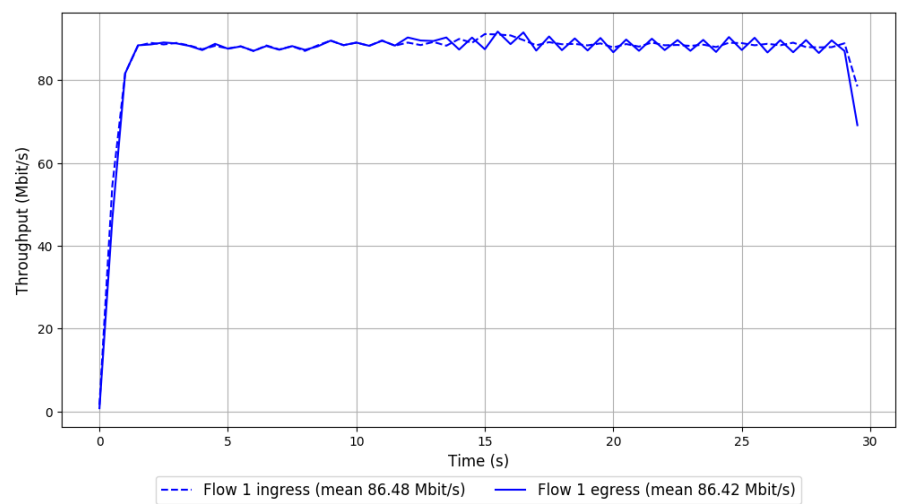
Run 6: Report of FillP — Data Link

Flow 1 ingress (mean 86.48 Mbit/s)   Flow 1 egress (mean 86.42 Mbit/s)

Flow 1 (95th percentile 53.10 ms)

```
Run 7: Statistics of FillP

Start at: 2018-02-04 06:42:45
End at: 2018-02-04 06:43:15
Local clock offset: 1.152 ms
Remote clock offset: 6.987 ms


# Below is generated by plot.py at 2018-02-04 12:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 50.027 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 86.44 Mbit/s
95th percentile per-packet one-way delay: 50.027 ms
Loss rate: 0.39%
```
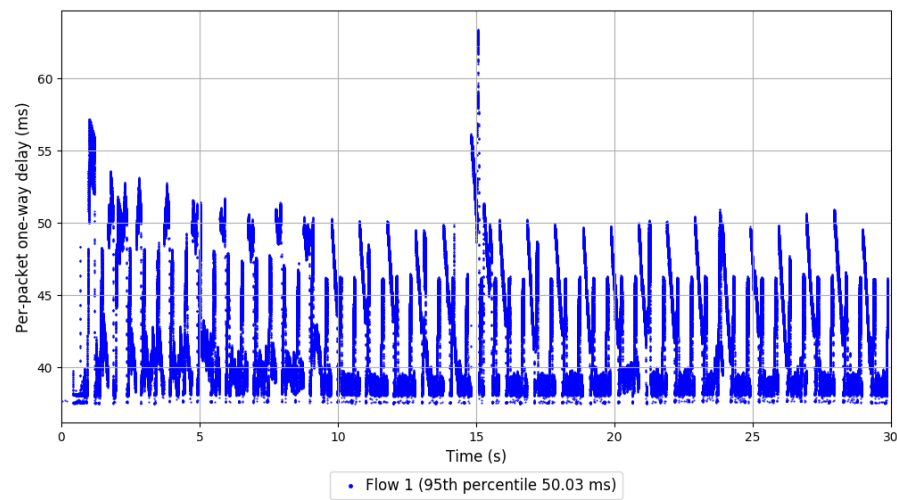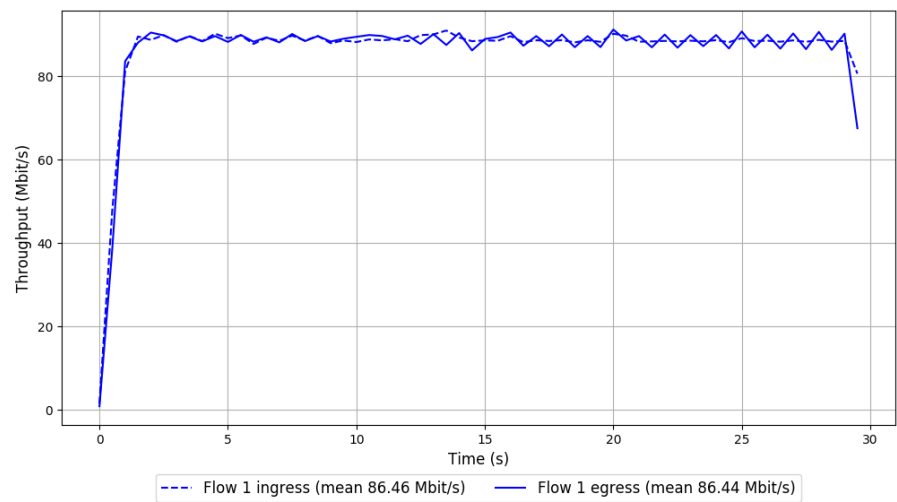
Run 7: Report of FillP — Data Link

Flow 1 ingress (mean 86.46 Mbit/s)   Flow 1 egress (mean 86.44 Mbit/s)

Flow 1 (95th percentile 50.03 ms)

```
Run 8: Statistics of FillP

Start at: 2018-02-04 07:06:20
End at: 2018-02-04 07:06:50
Local clock offset: 0.971 ms
Remote clock offset: 7.705 ms


# Below is generated by plot.py at 2018-02-04 12:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.40 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 88.40 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.38%
```
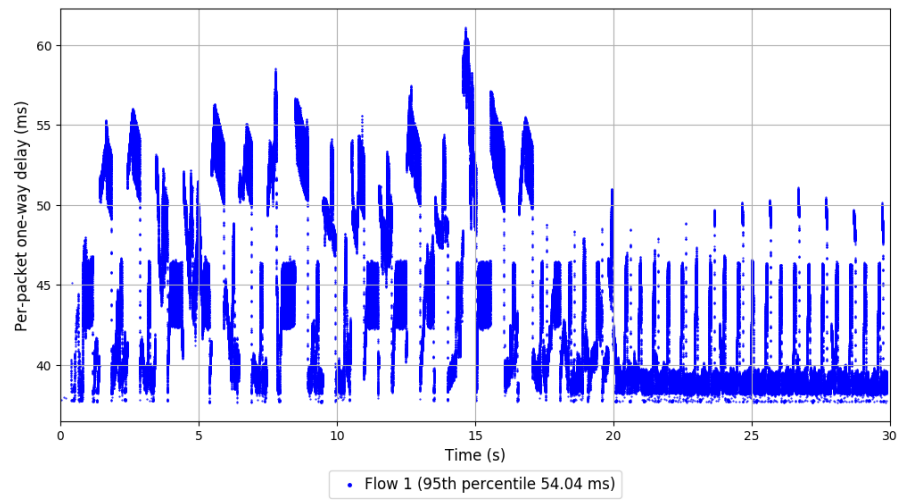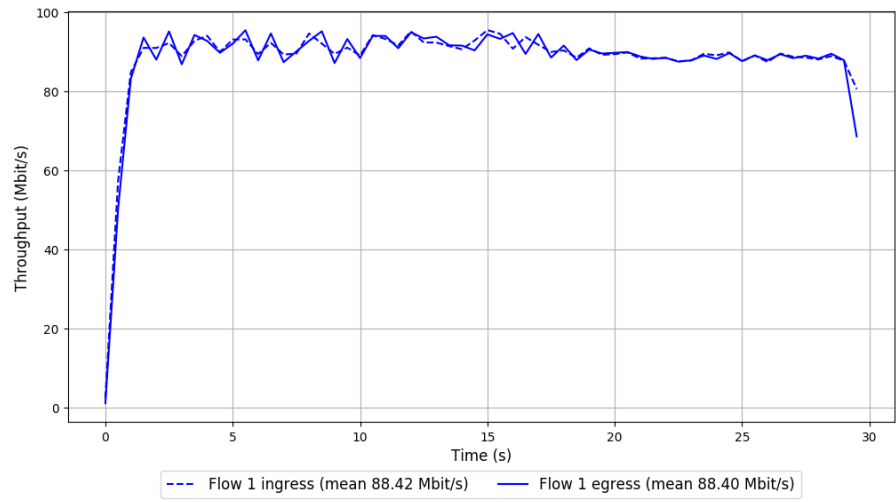
Run 8: Report of FillP — Data Link

Flow 1 ingress (mean 88.42 Mbit/s) ——— Flow 1 egress (mean 88.40 Mbit/s)

• Flow 1 (95th percentile 54.04 ms)

259

```
Run 9: Statistics of FillP

Start at: 2018-02-04 07:28:08
End at: 2018-02-04 07:28:38
Local clock offset: 1.173 ms
Remote clock offset: 8.944 ms


# Below is generated by plot.py at 2018-02-04 12:06:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.57 Mbit/s
95th percentile per-packet one-way delay: 50.565 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 86.57 Mbit/s
95th percentile per-packet one-way delay: 50.565 ms
Loss rate: 0.43%
```
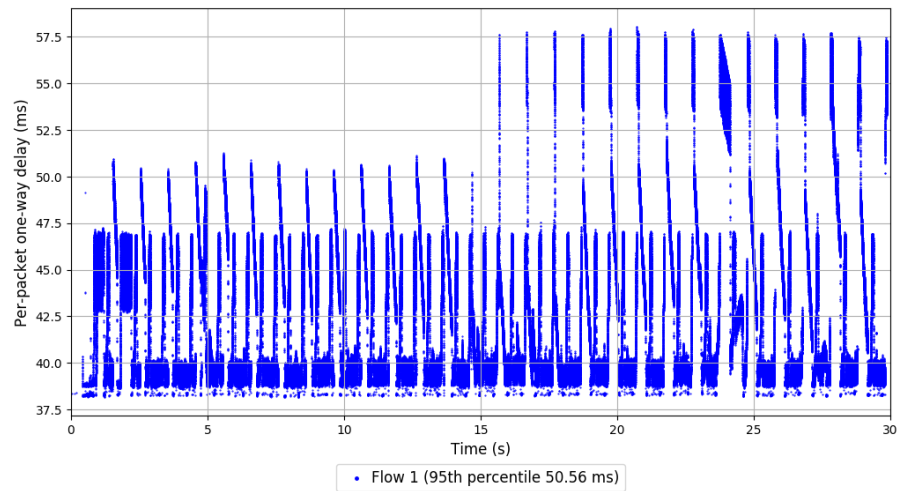
Run 9: Report of FillP — Data Link

261

```
Run 10: Statistics of FillP

Start at: 2018-02-04 07:49:54
End at: 2018-02-04 07:50:24
Local clock offset: 0.947 ms
Remote clock offset: 10.117 ms


# Below is generated by plot.py at 2018-02-04 12:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.58 Mbit/s
95th percentile per-packet one-way delay: 53.401 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 86.58 Mbit/s
95th percentile per-packet one-way delay: 53.401 ms
Loss rate: 0.37%
```
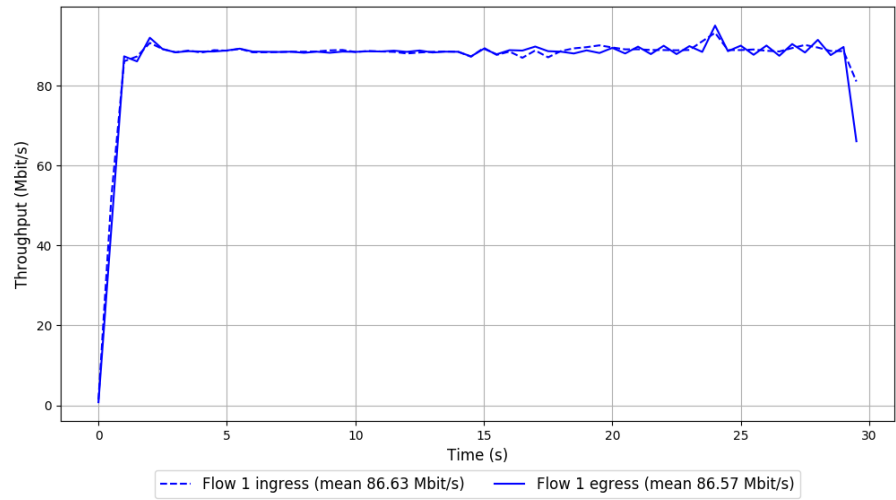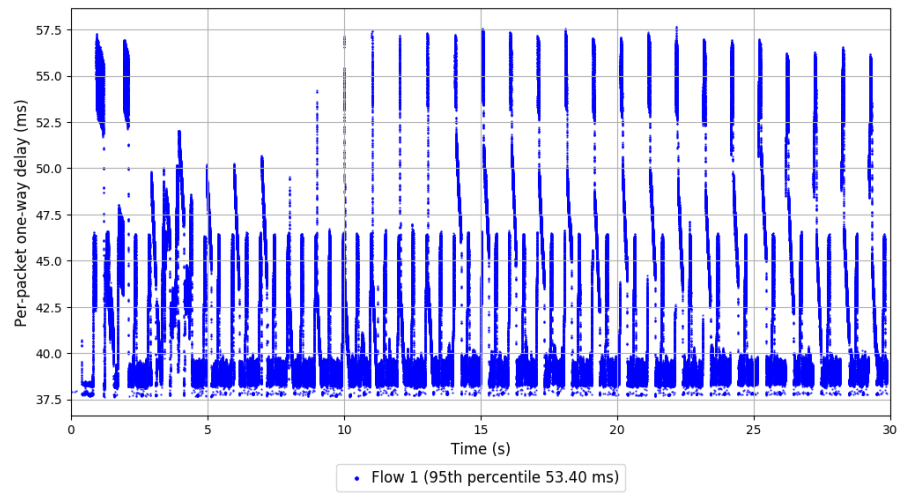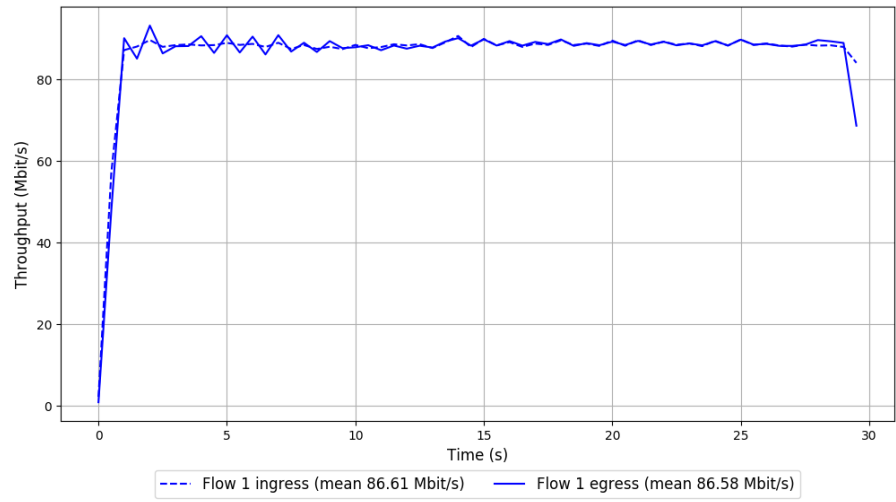
Run 10: Report of FillP — Data Link

Flow 1 ingress (mean 86.61 Mbit/s)   Flow 1 egress (mean 86.58 Mbit/s)
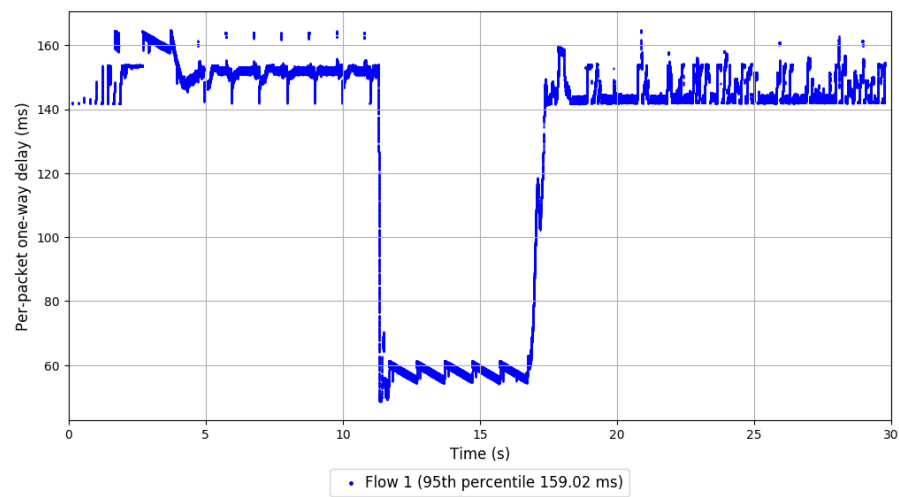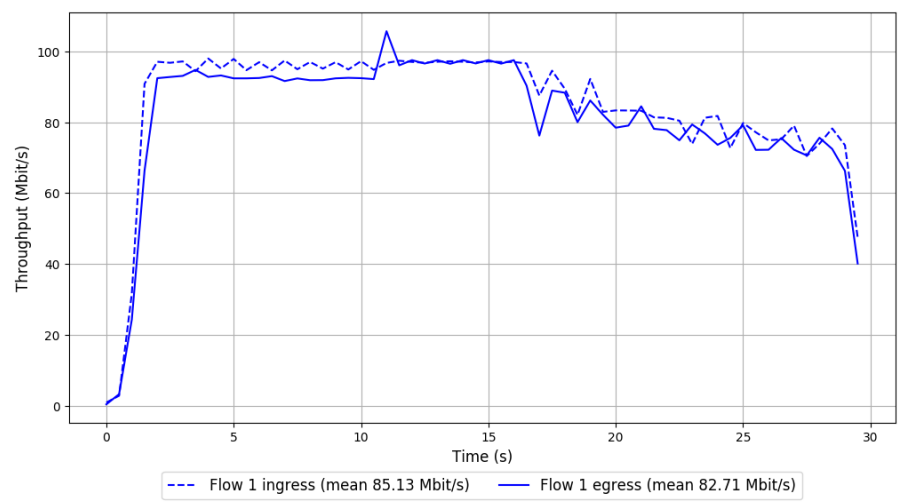

Flow 1 (95th percentile 53.40 ms)

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

Start at: 2018-02-04 04:07:48
End at: 2018-02-04 04:08:18
Local clock offset: -0.362 ms
Remote clock offset: 1.976 ms

# Below is generated by plot.py at 2018-02-04 12:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.71 Mbit/s
95th percentile per-packet one-way delay: 159.016 ms
Loss rate: 3.52%
-- Flow 1:
Average throughput: 82.71 Mbit/s
95th percentile per-packet one-way delay: 159.016 ms
Loss rate: 3.52%
```

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

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

Start at: 2018-02-04 04:36:17
End at: 2018-02-04 04:36:47
Local clock offset: -0.657 ms
Remote clock offset: 2.709 ms


# Below is generated by plot.py at 2018-02-04 12:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.73 Mbit/s
95th percentile per-packet one-way delay: 49.993 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 92.73 Mbit/s
95th percentile per-packet one-way delay: 49.993 ms
Loss rate: 0.37%
```
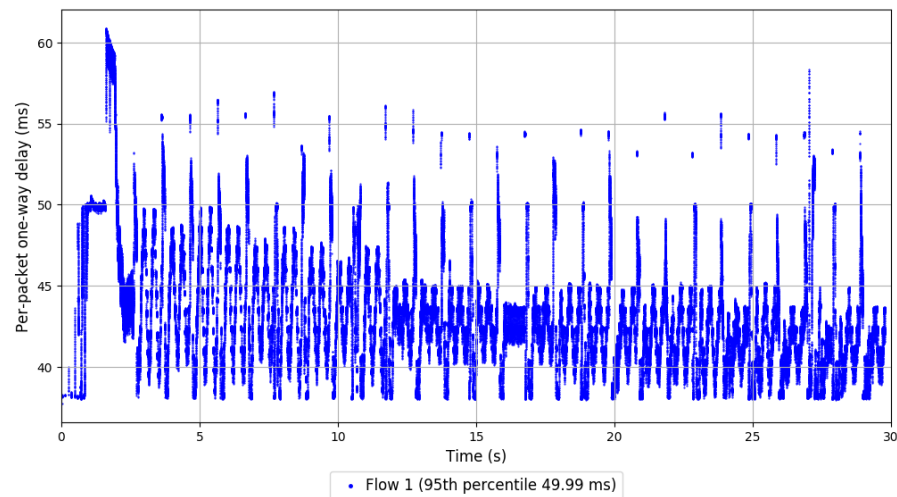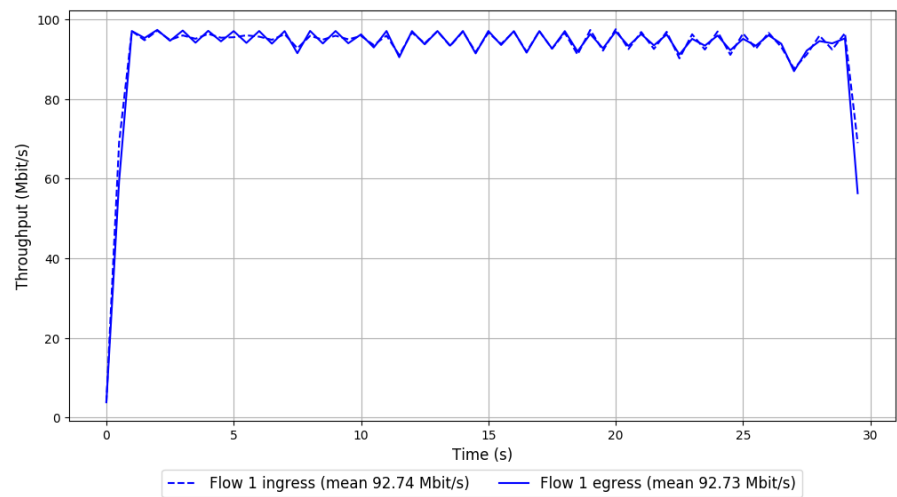
Run 2: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 92.74 Mbit/s) ----   Flow 1 egress (mean 92.73 Mbit/s) ——

• Flow 1 (95th percentile 49.99 ms)

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

Start at: 2018-02-04 04:58:04
End at: 2018-02-04 04:58:34
Local clock offset: -0.451 ms
Remote clock offset: 3.569 ms


# Below is generated by plot.py at 2018-02-04 12:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 50.098 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 83.04 Mbit/s
95th percentile per-packet one-way delay: 50.098 ms
Loss rate: 0.37%
```
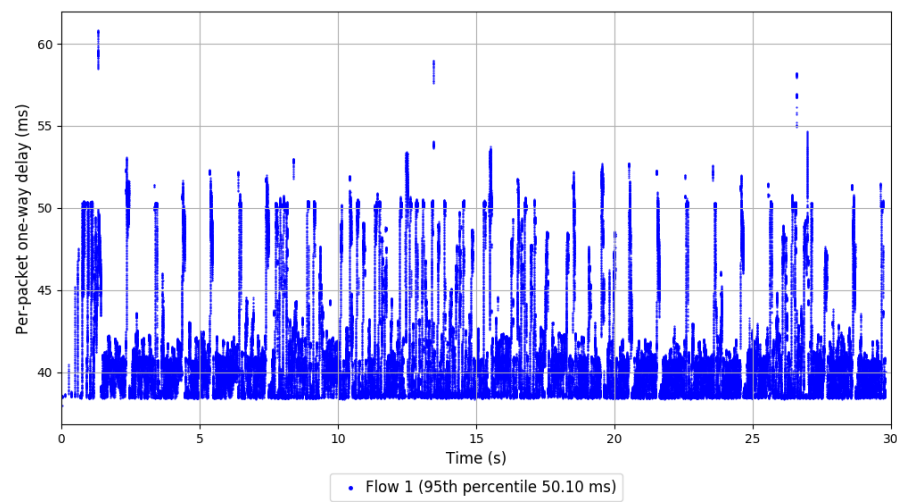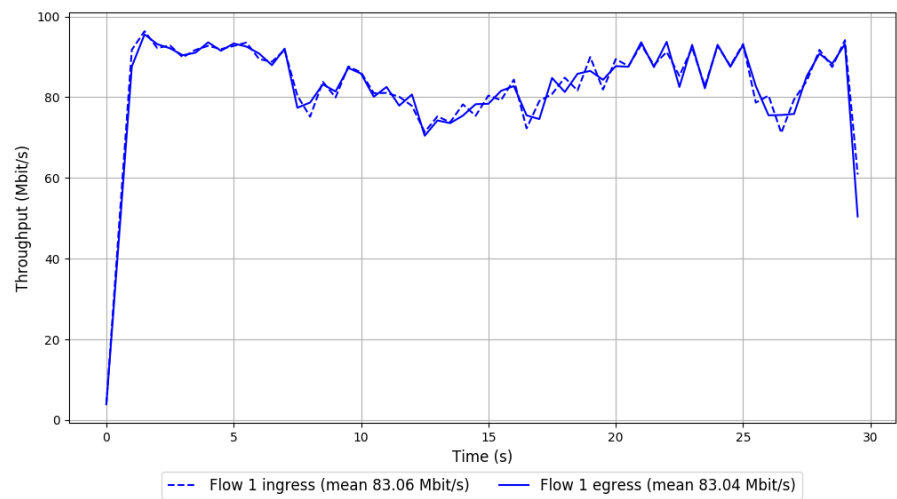
Run 3: Report of Indigo-1-32 — Data Link

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

Start at: 2018-02-04 05:19:50
End at: 2018-02-04 05:20:20
Local clock offset: 0.08 ms
Remote clock offset: 4.51 ms


# Below is generated by plot.py at 2018-02-04 12:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 85.68 Mbit/s
95th percentile per-packet one-way delay: 50.531 ms
Loss rate: 0.37%
```
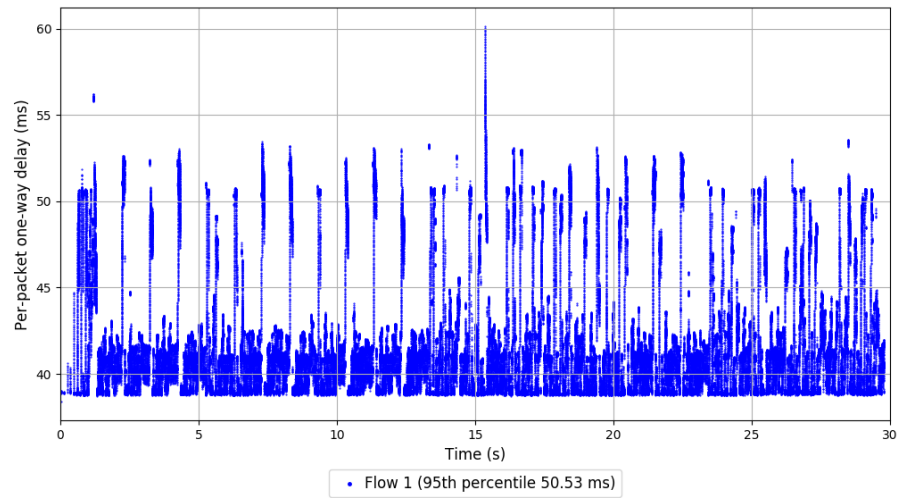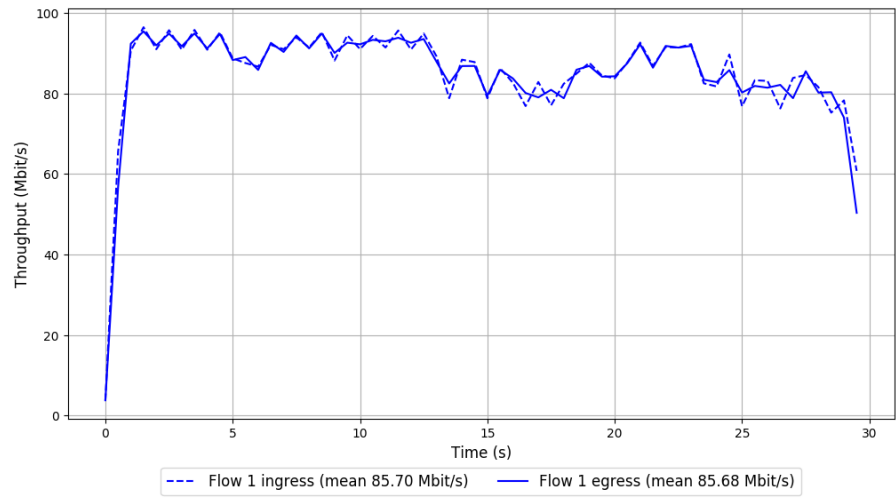
Run 4: Report of Indigo-1-32 — Data Link

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

Start at: 2018-02-04 05:41:37
End at: 2018-02-04 05:42:07
Local clock offset: 0.298 ms
Remote clock offset: 5.544 ms


# Below is generated by plot.py at 2018-02-04 12:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 50.099 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 50.099 ms
Loss rate: 0.38%
```
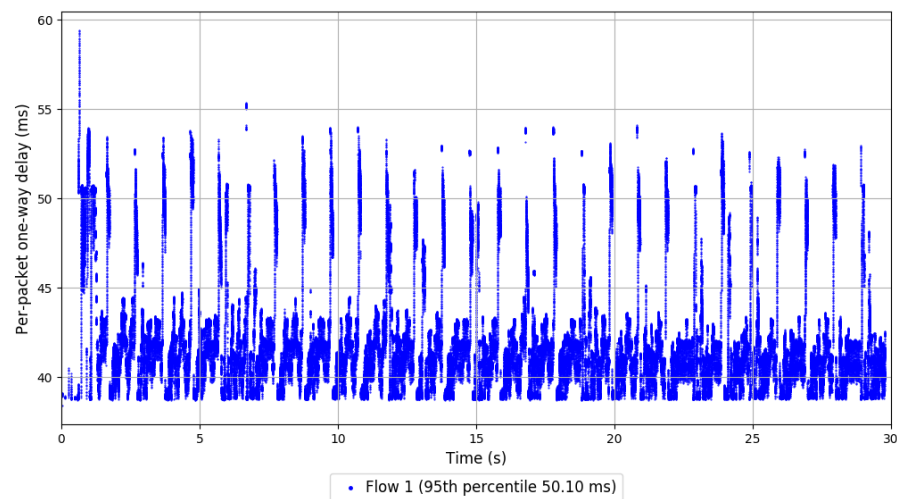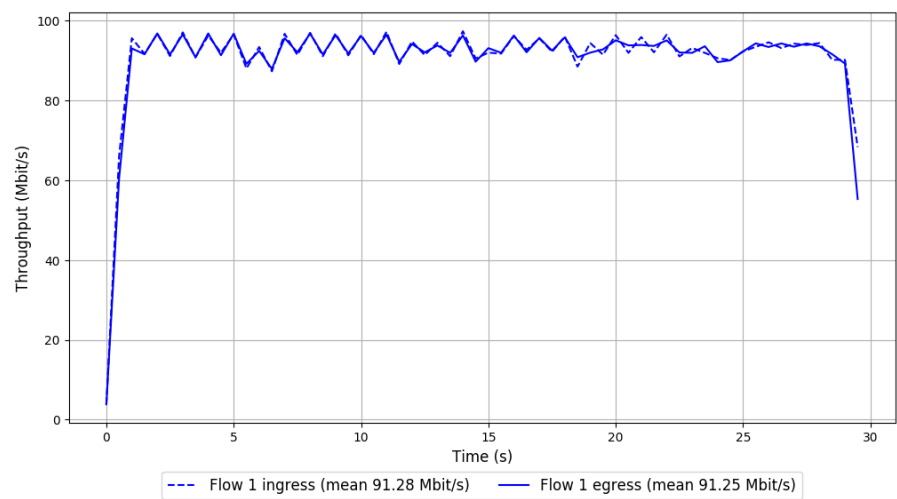
Run 5: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 91.28 Mbit/s)   Flow 1 egress (mean 91.25 Mbit/s)

Flow 1 (95th percentile 50.10 ms)

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

Start at: 2018-02-04 06:12:01
End at: 2018-02-04 06:12:31
Local clock offset: 0.357 ms
Remote clock offset: 6.177 ms


# Below is generated by plot.py at 2018-02-04 12:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.28 Mbit/s
95th percentile per-packet one-way delay: 51.396 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 93.28 Mbit/s
95th percentile per-packet one-way delay: 51.396 ms
Loss rate: 0.34%
```
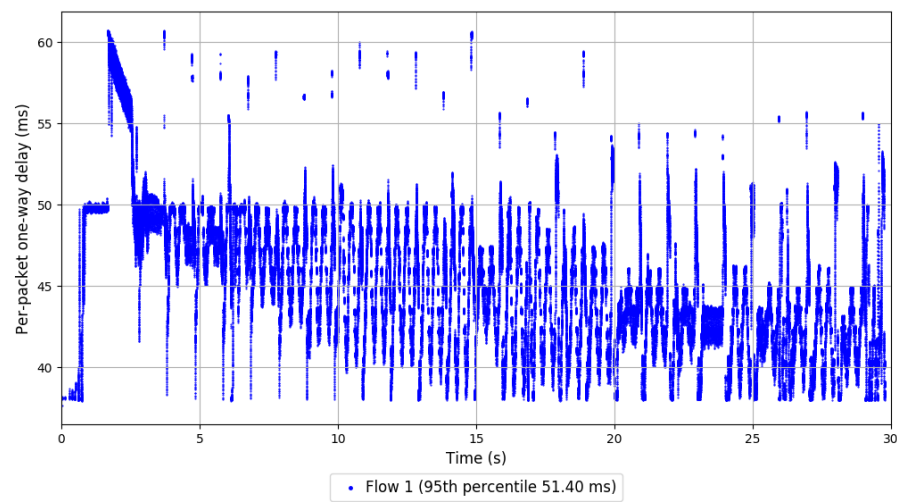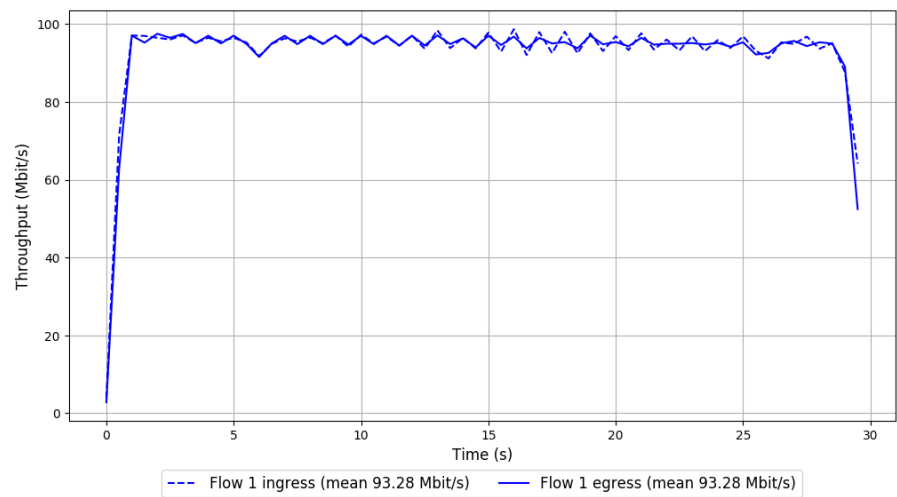
Run 6: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 93.28 Mbit/s) --- Flow 1 egress (mean 93.28 Mbit/s)

• Flow 1 (95th percentile 51.40 ms)

Run 7: Statistics of Indigo-1-32

/home/ubuntu/pantheon_data/2018-02-04T04-02-China-to-AWS-Korea-10-runs/indigo_1_32_stats_ru

Run 7: Report of Indigo-1-32 — Data Link

Figure is missing

Figure is missing

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

Start at: 2018-02-04 06:59:04
End at: 2018-02-04 06:59:34
Local clock offset: -1.407 ms
Remote clock offset: 7.341 ms


# Below is generated by plot.py at 2018-02-04 12:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.35 Mbit/s
95th percentile per-packet one-way delay: 47.616 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 88.35 Mbit/s
95th percentile per-packet one-way delay: 47.616 ms
Loss rate: 0.35%
```
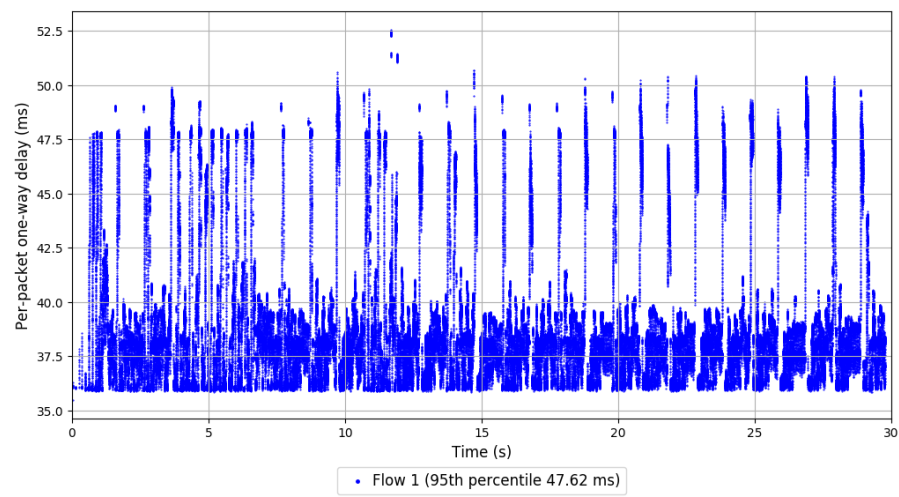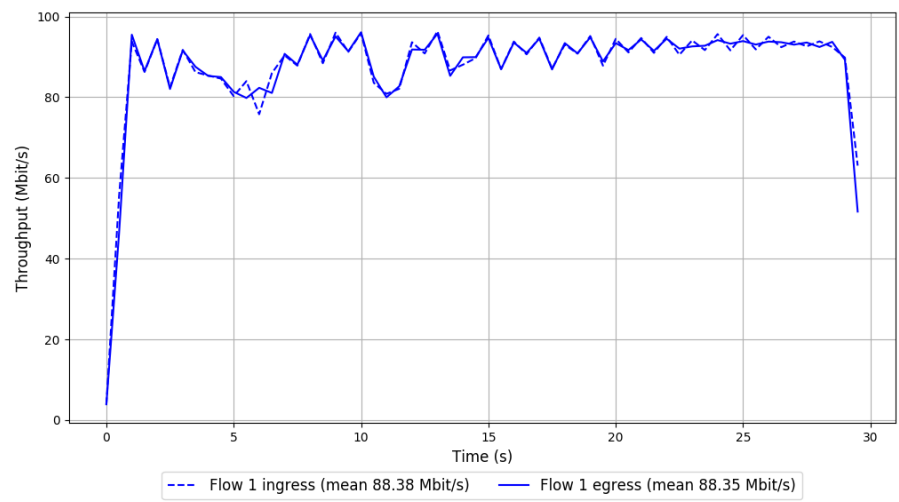
Run 8: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 88.38 Mbit/s)   Flow 1 egress (mean 88.35 Mbit/s)

Flow 1 (95th percentile 47.62 ms)

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

Start at: 2018-02-04 07:20:53
End at: 2018-02-04 07:21:23
Local clock offset: 1.218 ms
Remote clock offset: 8.483 ms


# Below is generated by plot.py at 2018-02-04 12:08:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 50.349 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 50.349 ms
Loss rate: 0.31%
```
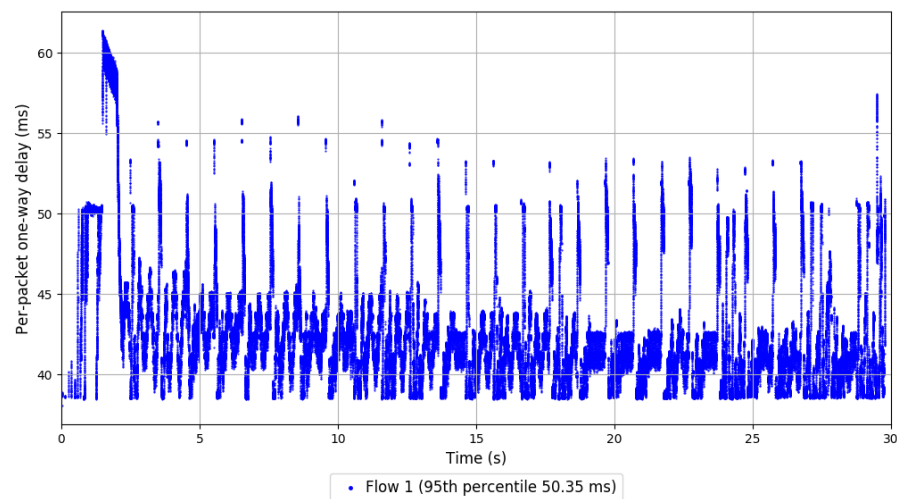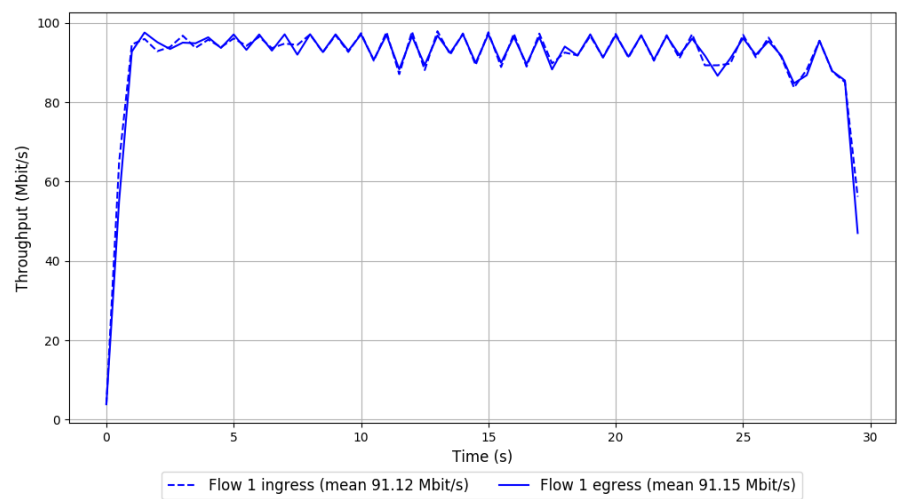
Run 9: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 91.12 Mbit/s) --- Flow 1 egress (mean 91.15 Mbit/s)

• Flow 1 (95th percentile 50.35 ms)

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

Start at: 2018-02-04 07:42:40
End at: 2018-02-04 07:43:10
Local clock offset: 1.382 ms
Remote clock offset: 9.924 ms


# Below is generated by plot.py at 2018-02-04 12:08:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.08 Mbit/s
95th percentile per-packet one-way delay: 50.496 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 92.08 Mbit/s
95th percentile per-packet one-way delay: 50.496 ms
Loss rate: 0.36%
```
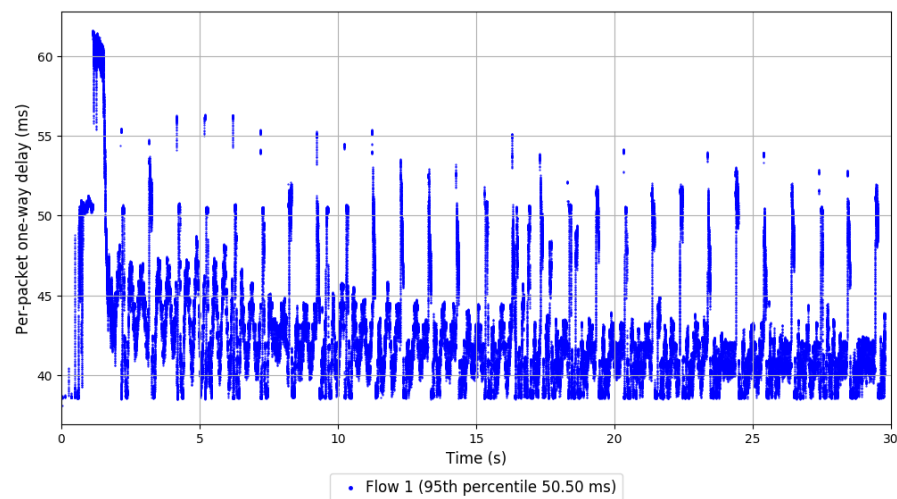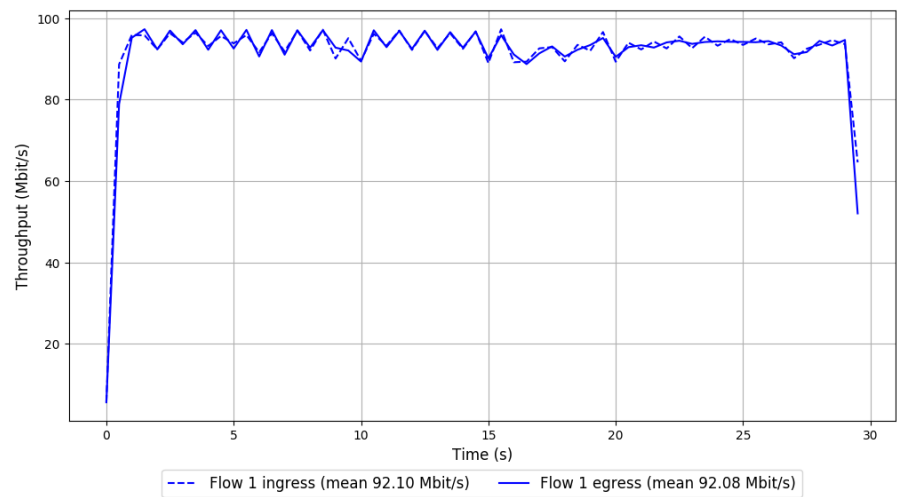
Run 10: Report of Indigo-1-32 — Data Link

```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-04 04:17:41
End at: 2018-02-04 04:18:11
Local clock offset: -0.217 ms
Remote clock offset: 2.126 ms


# Below is generated by plot.py at 2018-02-04 12:08:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 142.420 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 15.97 Mbit/s
95th percentile per-packet one-way delay: 142.420 ms
Loss rate: 3.03%
```
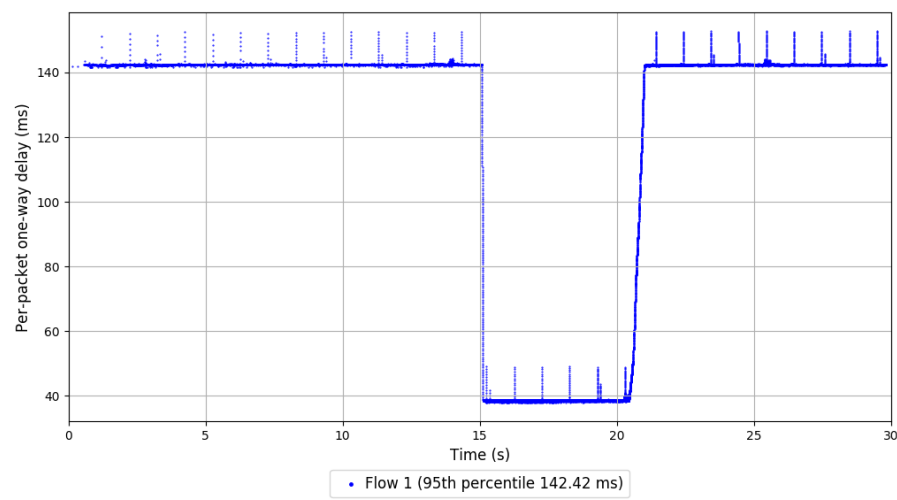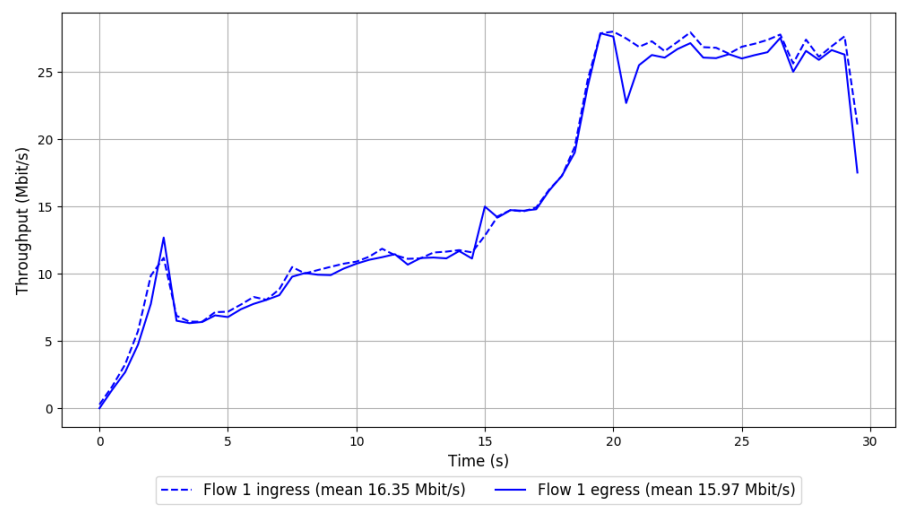
Run 1: Report of Vivace-latency — Data Link

```
Run 2: Statistics of Vivace-latency

Start at: 2018-02-04 04:42:19
End at: 2018-02-04 04:42:49
Local clock offset: 0.059 ms
Remote clock offset: 2.945 ms


# Below is generated by plot.py at 2018-02-04 12:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.55 Mbit/s
95th percentile per-packet one-way delay: 48.226 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 76.55 Mbit/s
95th percentile per-packet one-way delay: 48.226 ms
Loss rate: 0.42%
```
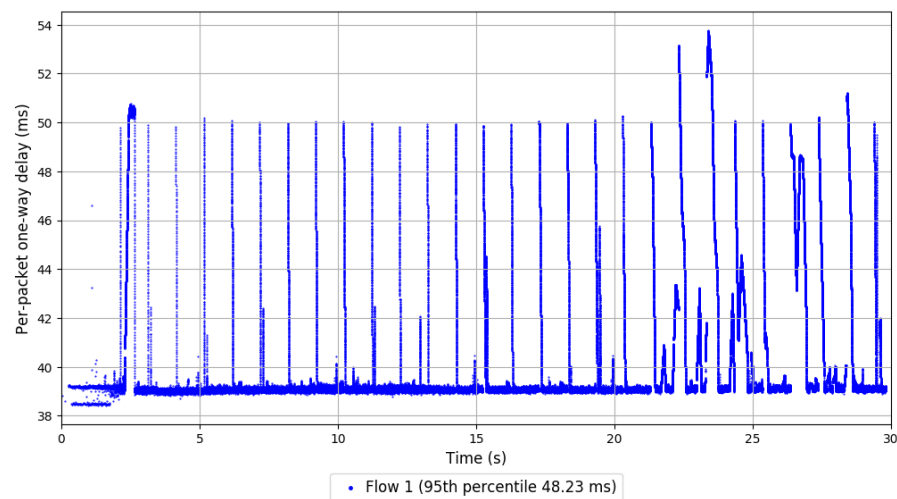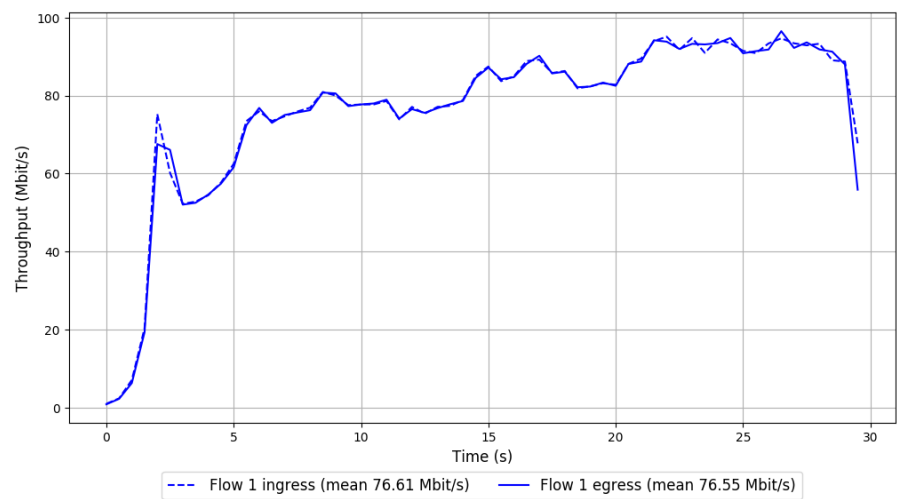
Run 2: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 76.61 Mbit/s)   Flow 1 egress (mean 76.55 Mbit/s)

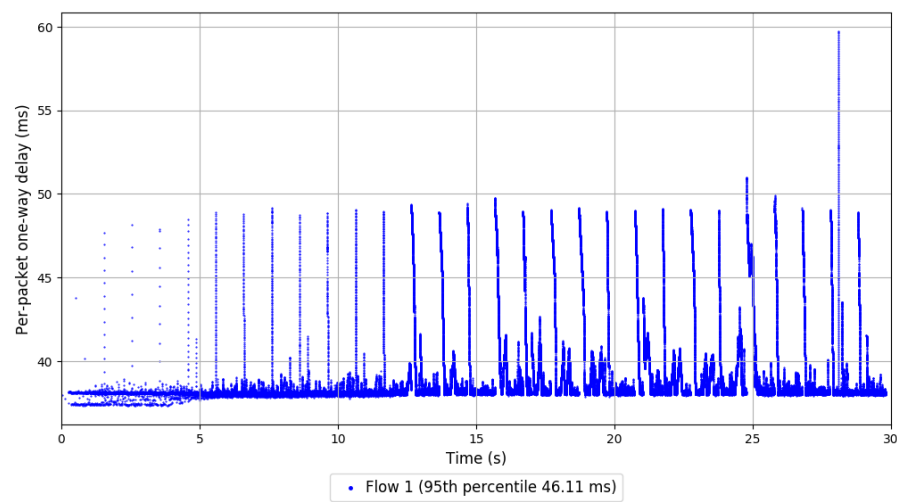

• Flow 1 (95th percentile 48.23 ms)

```
Run 3: Statistics of Vivace-latency

Start at: 2018-02-04 05:04:06
End at: 2018-02-04 05:04:36
Local clock offset: -0.079 ms
Remote clock offset: 3.853 ms


# Below is generated by plot.py at 2018-02-04 12:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 46.107 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 68.89 Mbit/s
95th percentile per-packet one-way delay: 46.107 ms
Loss rate: 0.40%
```

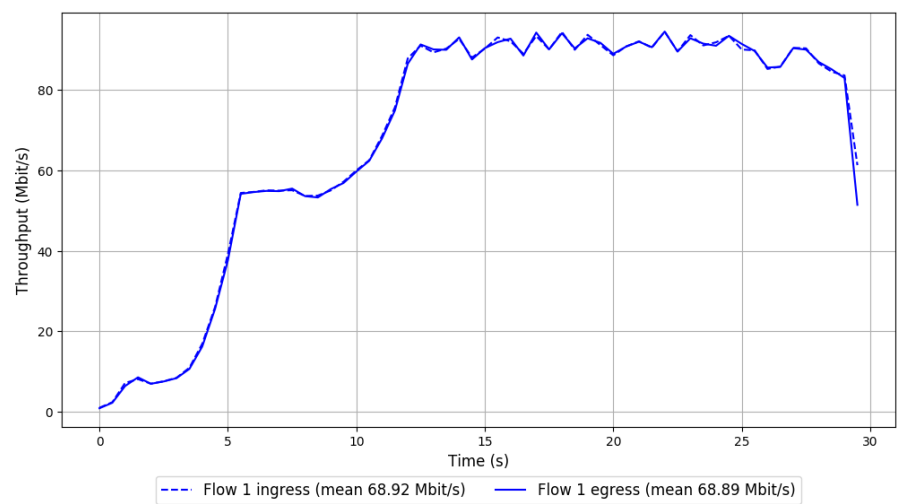Run 3: Report of Vivace-latency — Data Link

```
Run 4: Statistics of Vivace-latency

Start at: 2018-02-04 05:25:52
End at: 2018-02-04 05:26:22
Local clock offset: 0.054 ms
Remote clock offset: 4.822 ms


# Below is generated by plot.py at 2018-02-04 12:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.63 Mbit/s
95th percentile per-packet one-way delay: 49.583 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 55.63 Mbit/s
95th percentile per-packet one-way delay: 49.583 ms
Loss rate: 0.54%
```
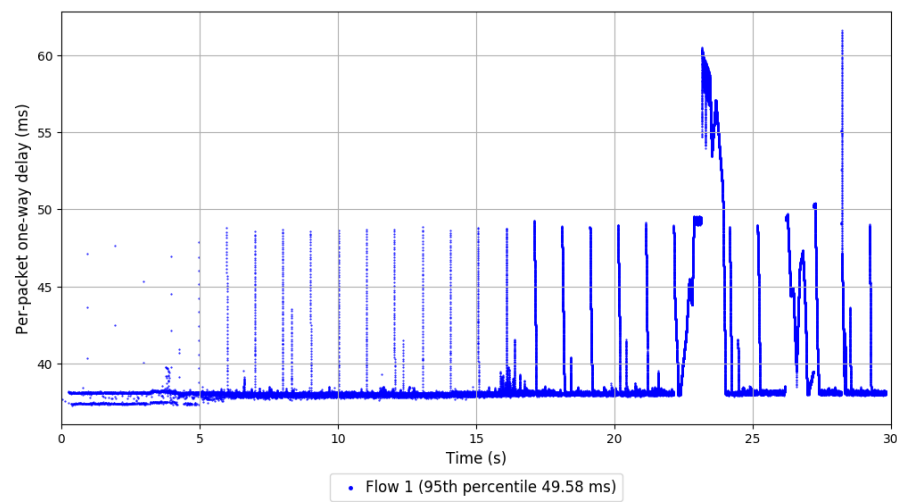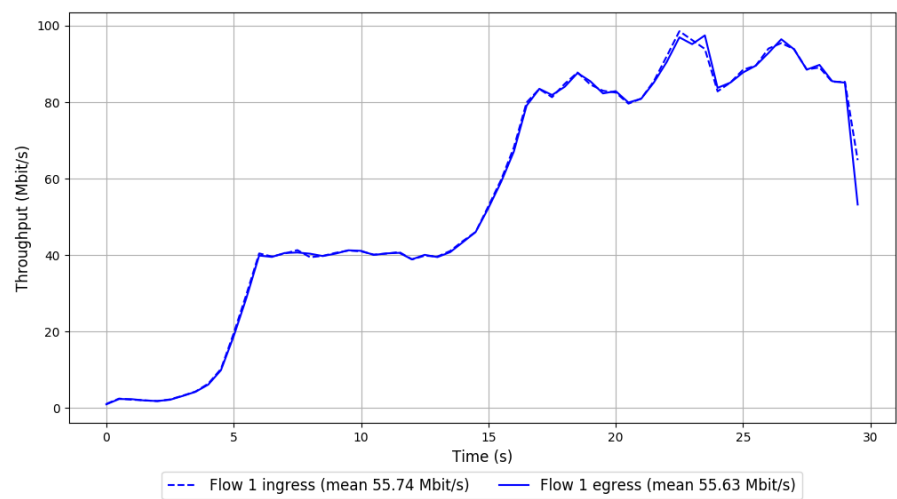
Run 4: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 55.74 Mbit/s)   Flow 1 egress (mean 55.63 Mbit/s)

• Flow 1 (95th percentile 49.58 ms)

```
Run 5: Statistics of Vivace-latency

Start at: 2018-02-04 05:47:41
End at: 2018-02-04 05:48:11
Local clock offset: 0.338 ms
Remote clock offset: 5.858 ms


# Below is generated by plot.py at 2018-02-04 12:09:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 150.692 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 60.59 Mbit/s
95th percentile per-packet one-way delay: 150.692 ms
Loss rate: 3.00%
```
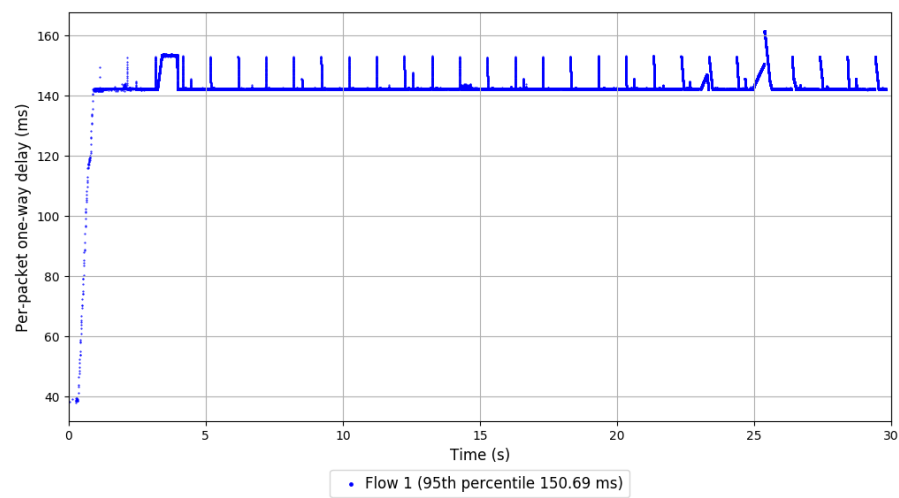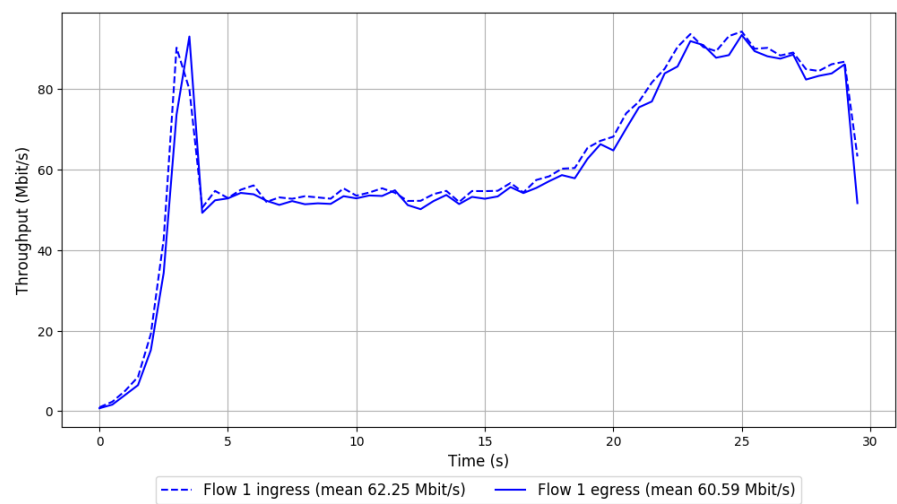
Run 5: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 62.25 Mbit/s)   Flow 1 egress (mean 60.59 Mbit/s)

Flow 1 (95th percentile 150.69 ms)

```
Run 6: Statistics of Vivace-latency

Start at: 2018-02-04 06:18:03
End at: 2018-02-04 06:18:33
Local clock offset: 0.852 ms
Remote clock offset: 6.258 ms


# Below is generated by plot.py at 2018-02-04 12:09:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 47.388 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 77.24 Mbit/s
95th percentile per-packet one-way delay: 47.388 ms
Loss rate: 0.39%
```
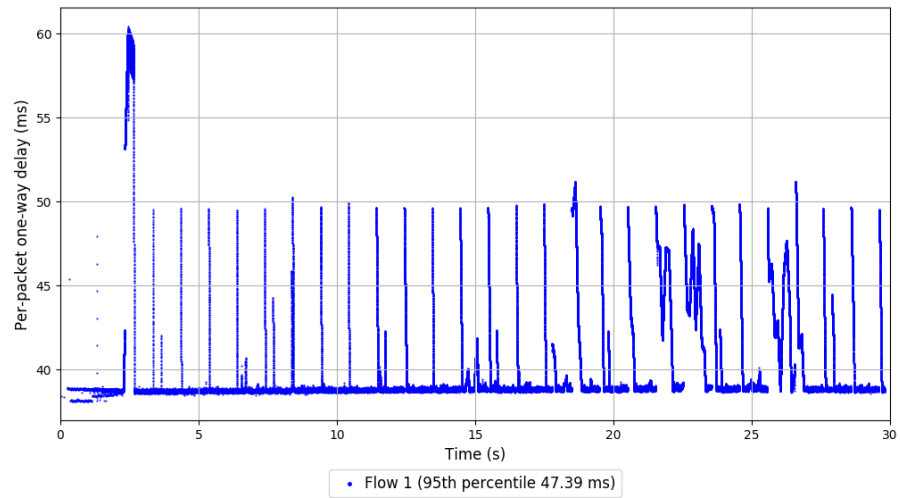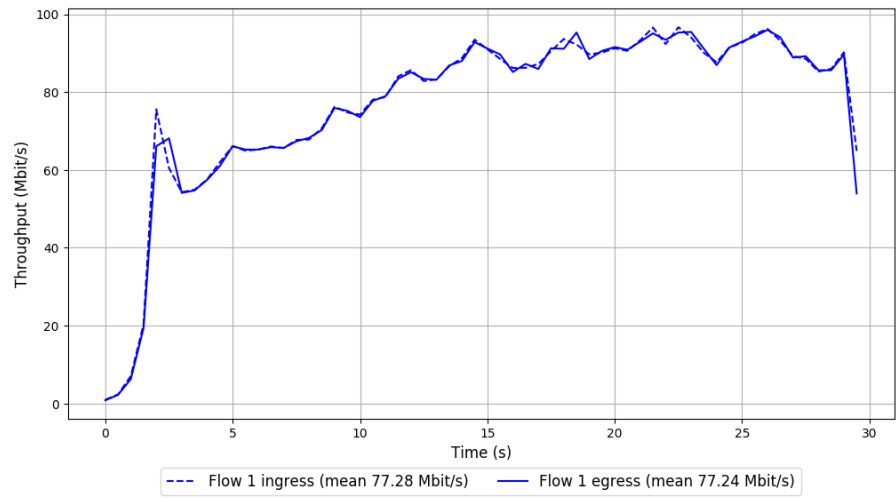
Run 6: Report of Vivace-latency — Data Link

```
Run 7: Statistics of Vivace-latency

Start at: 2018-02-04 06:41:33
End at: 2018-02-04 06:42:03
Local clock offset: 1.058 ms
Remote clock offset: 6.517 ms


# Below is generated by plot.py at 2018-02-04 12:09:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 43.444 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 33.22 Mbit/s
95th percentile per-packet one-way delay: 43.444 ms
Loss rate: 0.79%
```
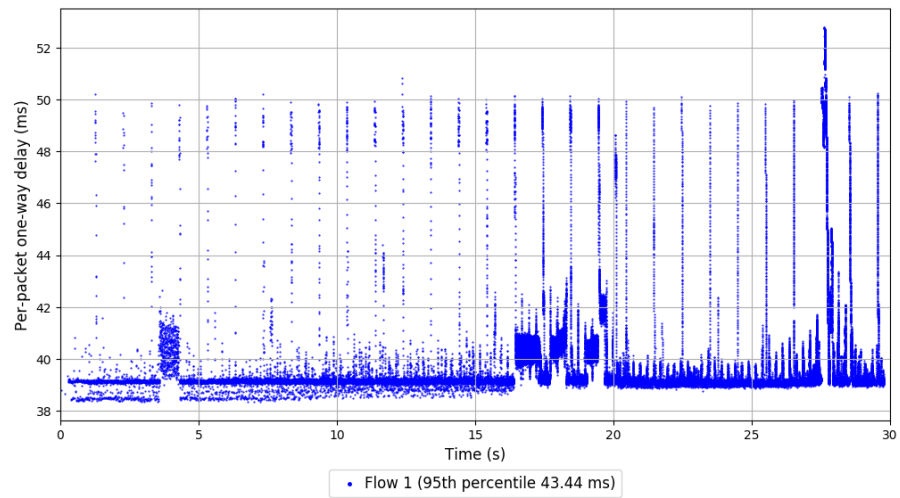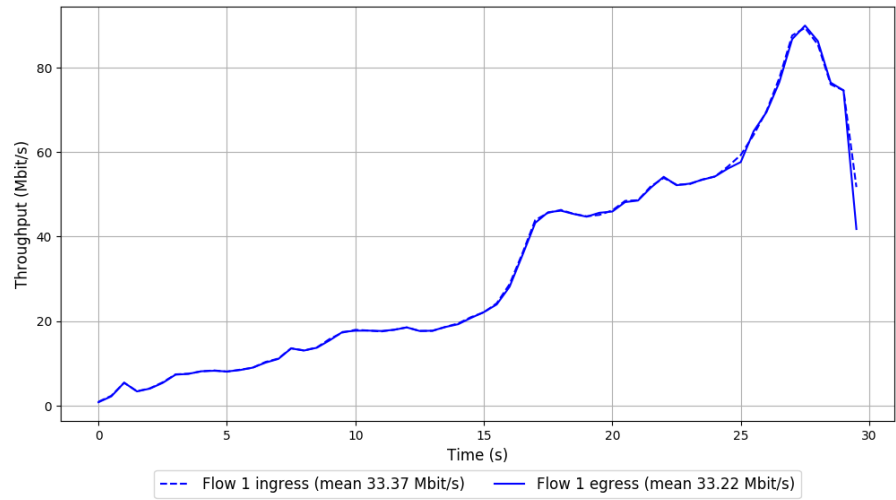
Run 7: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 33.37 Mbit/s) --- Flow 1 egress (mean 33.22 Mbit/s)

• Flow 1 (95th percentile 43.44 ms)

```
Run 8: Statistics of Vivace-latency

Start at: 2018-02-04 07:05:07
End at: 2018-02-04 07:05:37
Local clock offset: 1.265 ms
Remote clock offset: 7.61 ms


# Below is generated by plot.py at 2018-02-04 12:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.97 Mbit/s
95th percentile per-packet one-way delay: 49.899 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 70.97 Mbit/s
95th percentile per-packet one-way delay: 49.899 ms
Loss rate: 0.47%
```
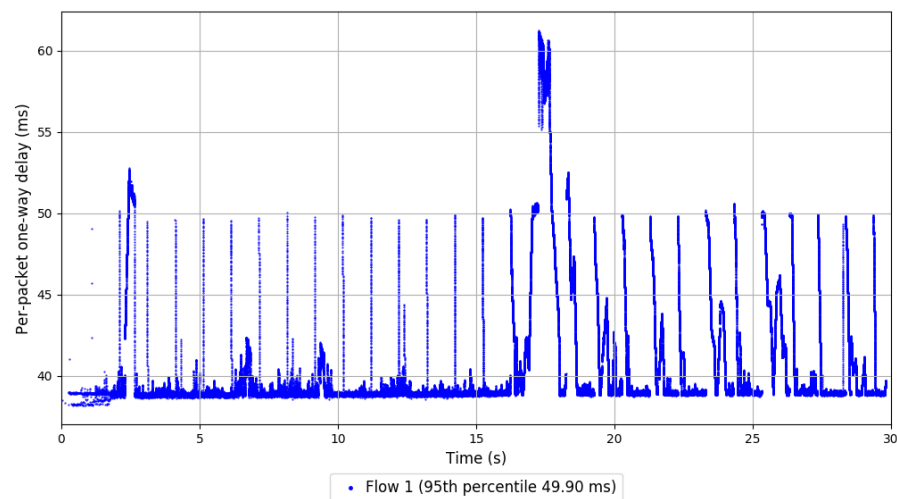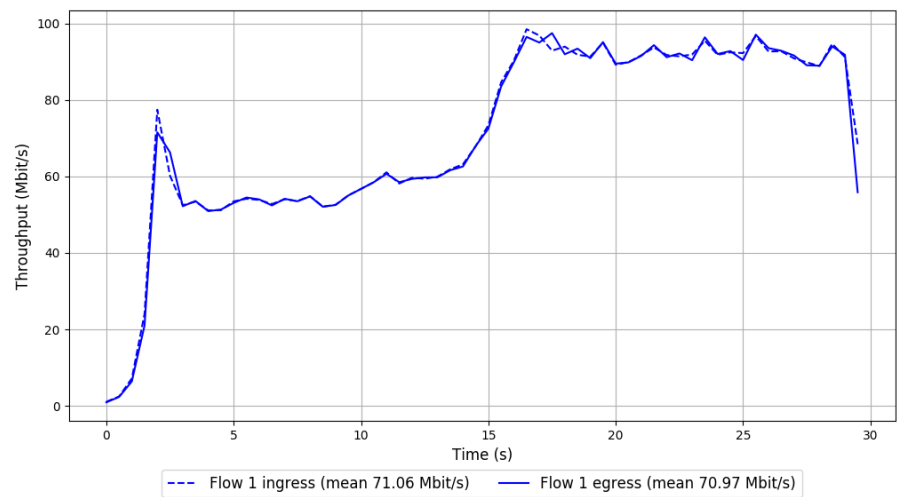
Run 8: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 71.06 Mbit/s) —— Flow 1 egress (mean 70.97 Mbit/s)

• Flow 1 (95th percentile 49.90 ms)

299

```
Run 9: Statistics of Vivace-latency

Start at: 2018-02-04 07:26:56
End at: 2018-02-04 07:27:26
Local clock offset: 1.13 ms
Remote clock offset: 8.847 ms


# Below is generated by plot.py at 2018-02-04 12:09:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.25 Mbit/s
95th percentile per-packet one-way delay: 38.228 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 45.25 Mbit/s
95th percentile per-packet one-way delay: 38.228 ms
Loss rate: 0.65%
```
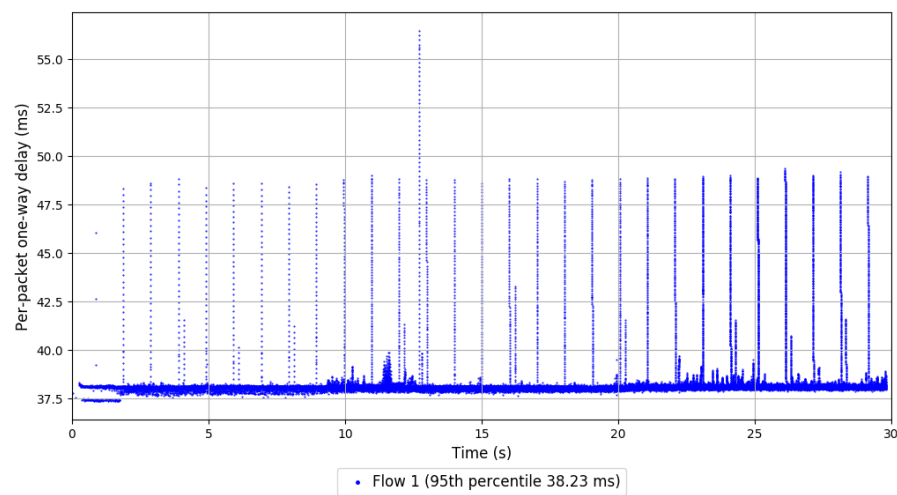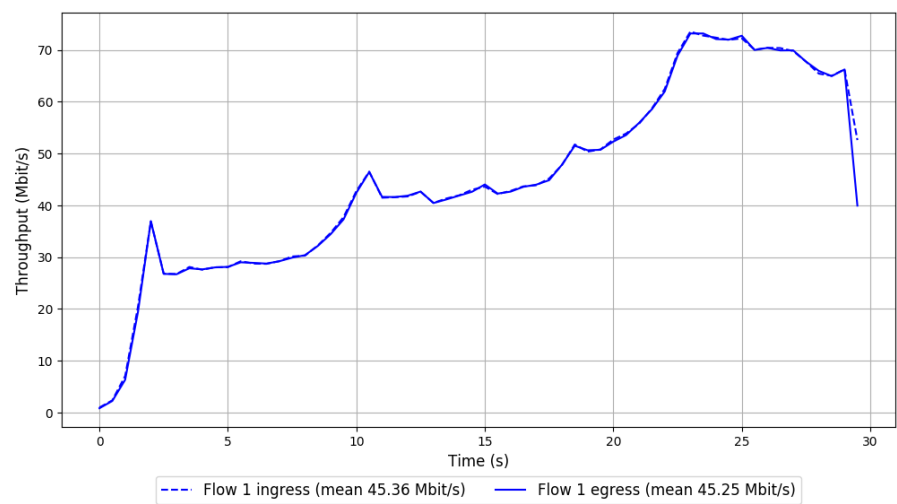
Run 9: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 45.36 Mbit/s)   Flow 1 egress (mean 45.25 Mbit/s)

Flow 1 (95th percentile 38.23 ms)

```
Run 10: Statistics of Vivace-latency

Start at: 2018-02-04 07:48:42
End at: 2018-02-04 07:49:12
Local clock offset: 1.011 ms
Remote clock offset: 10.07 ms


# Below is generated by plot.py at 2018-02-04 12:09:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.69 Mbit/s
95th percentile per-packet one-way delay: 44.222 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 56.69 Mbit/s
95th percentile per-packet one-way delay: 44.222 ms
Loss rate: 0.54%
```
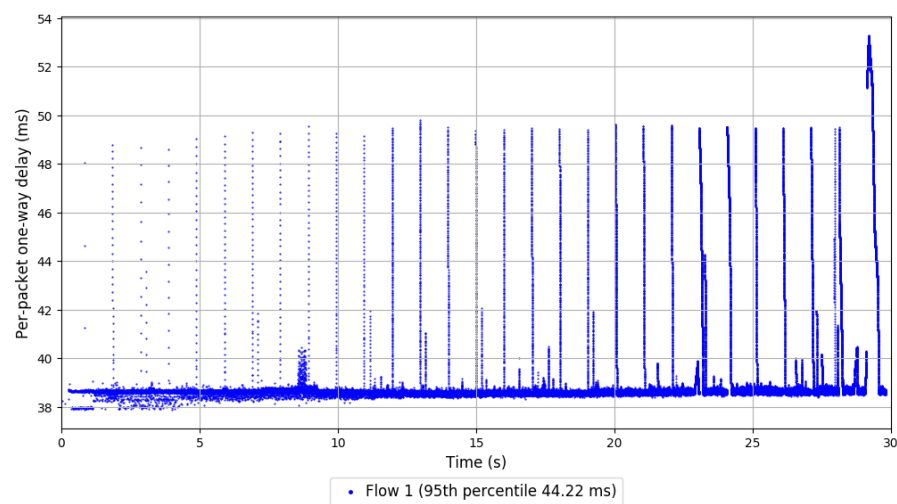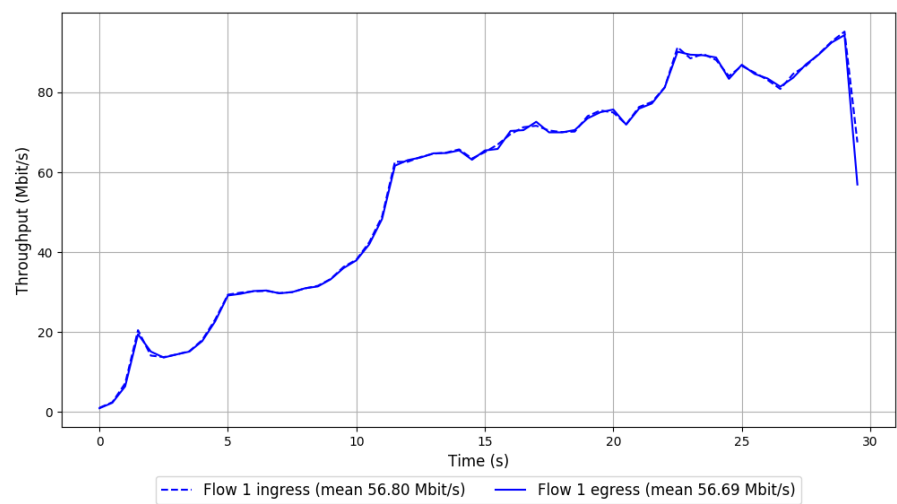
Run 10: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 56.80 Mbit/s)   Flow 1 egress (mean 56.69 Mbit/s)

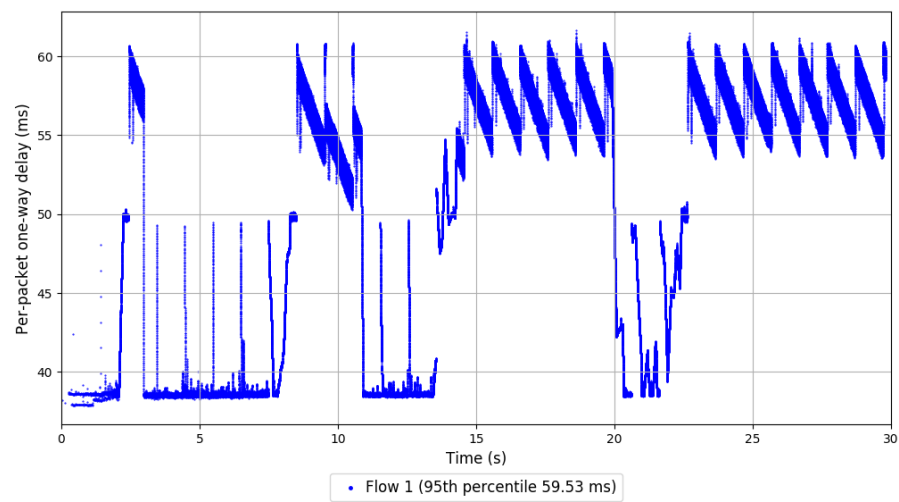

• Flow 1 (95th percentile 44.22 ms)

```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-04 04:30:13
End at: 2018-02-04 04:30:43
Local clock offset: -0.672 ms
Remote clock offset: 2.465 ms


# Below is generated by plot.py at 2018-02-04 12:10:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.57 Mbit/s
95th percentile per-packet one-way delay: 59.531 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 84.57 Mbit/s
95th percentile per-packet one-way delay: 59.531 ms
Loss rate: 0.57%
```
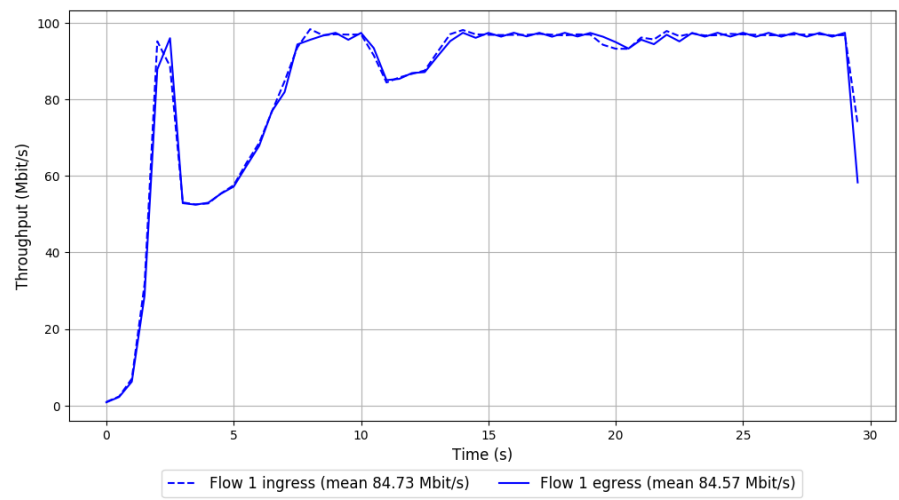
Run 1: Report of Vivace-loss — Data Link

```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-04 04:52:02
End at: 2018-02-04 04:52:32
Local clock offset: -0.138 ms
Remote clock offset: 3.31 ms


# Below is generated by plot.py at 2018-02-04 12:10:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.58 Mbit/s
95th percentile per-packet one-way delay: 59.509 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 85.58 Mbit/s
95th percentile per-packet one-way delay: 59.509 ms
Loss rate: 0.38%
```
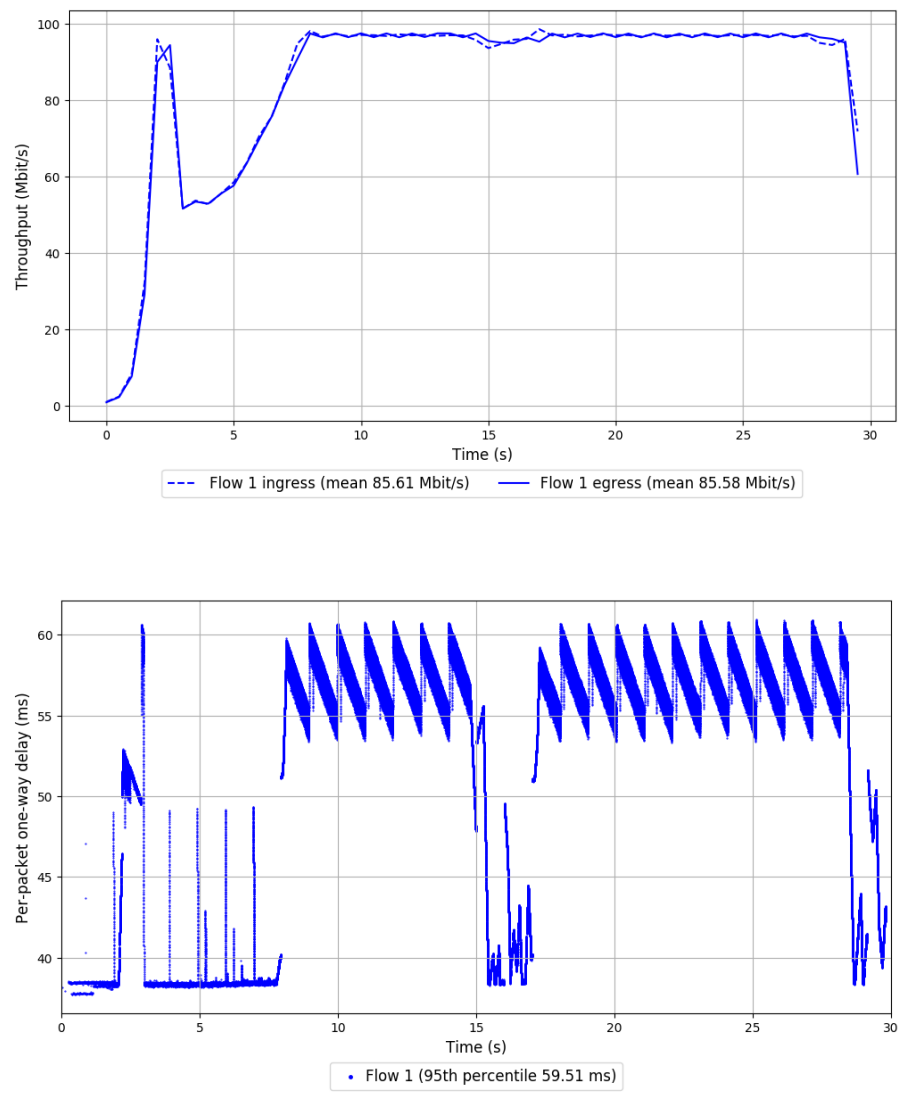
Run 2: Report of Vivace-loss — Data Link

```
Run 3: Statistics of Vivace-loss

Start at: 2018-02-04 05:13:49
End at: 2018-02-04 05:14:19
Local clock offset: 0.141 ms
Remote clock offset: 4.288 ms


# Below is generated by plot.py at 2018-02-04 12:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 59.652 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 85.00 Mbit/s
95th percentile per-packet one-way delay: 59.652 ms
Loss rate: 0.46%
```

Run 3: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 85.10 Mbit/s)   Flow 1 egress (mean 85.00 Mbit/s)

• Flow 1 (95th percentile 59.65 ms)

```
Run 4: Statistics of Vivace-loss

Start at: 2018-02-04 05:35:33
End at: 2018-02-04 05:36:03
Local clock offset: 0.236 ms
Remote clock offset: 5.249 ms


# Below is generated by plot.py at 2018-02-04 12:10:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.14 Mbit/s
95th percentile per-packet one-way delay: 59.927 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 85.14 Mbit/s
95th percentile per-packet one-way delay: 59.927 ms
Loss rate: 0.41%
```
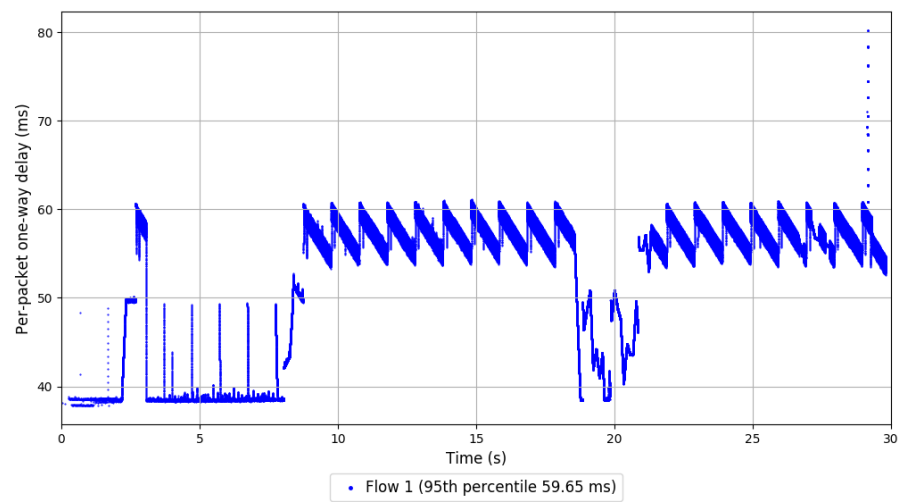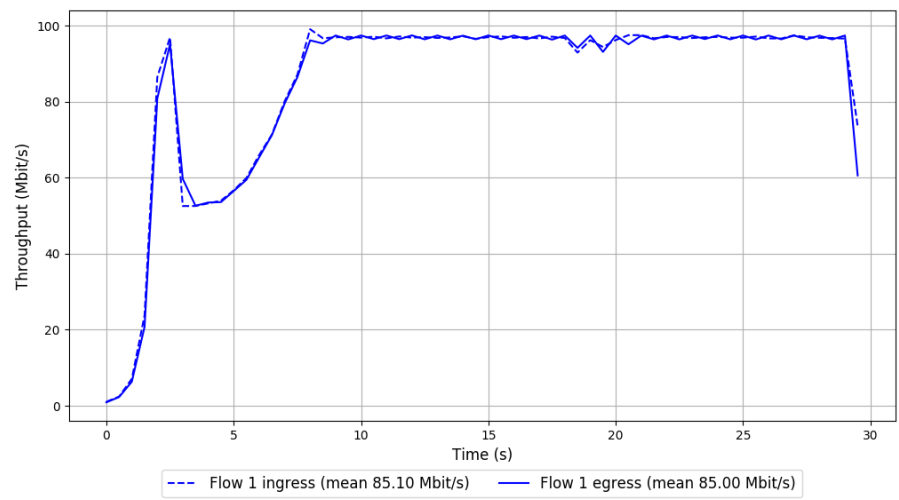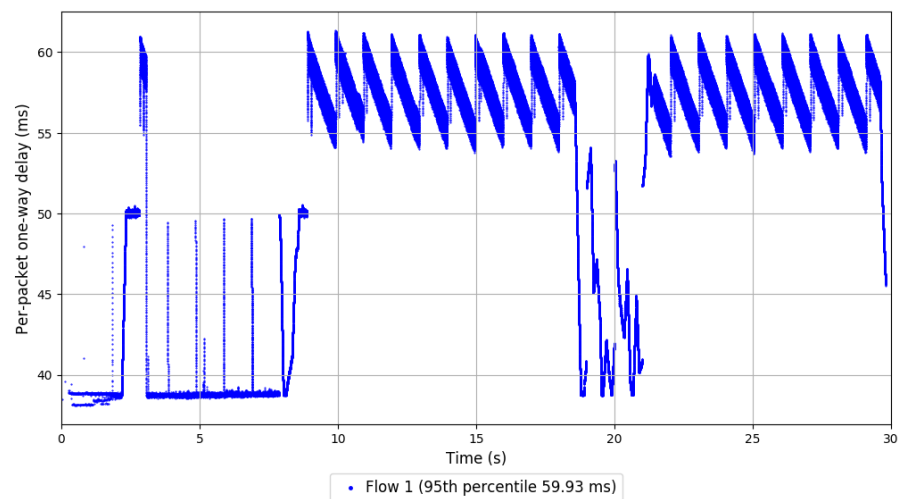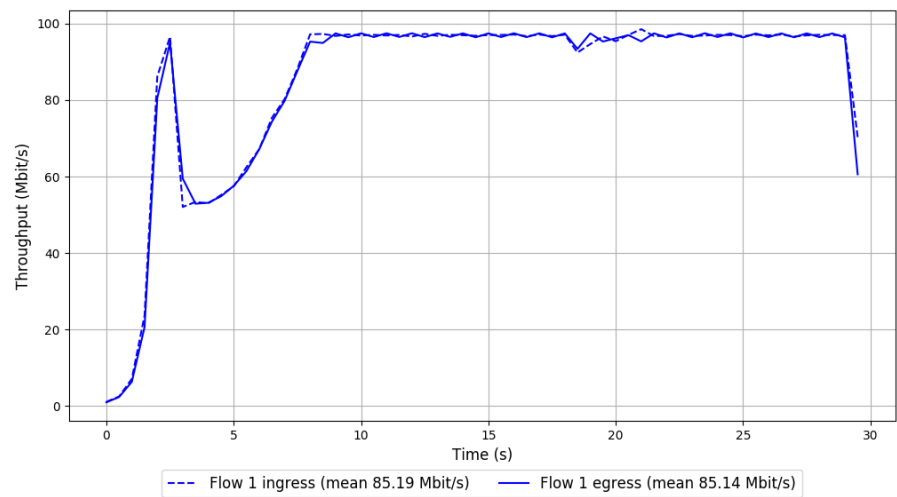
Run 4: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 85.19 Mbit/s) --- Flow 1 egress (mean 85.14 Mbit/s)

• Flow 1 (95th percentile 59.93 ms)

```
Run 5: Statistics of Vivace-loss

Start at: 2018-02-04 06:03:14
End at: 2018-02-04 06:03:44
Local clock offset: 0.879 ms
Remote clock offset: 6.134 ms


# Below is generated by plot.py at 2018-02-04 12:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 163.167 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 72.35 Mbit/s
95th percentile per-packet one-way delay: 163.167 ms
Loss rate: 2.56%
```
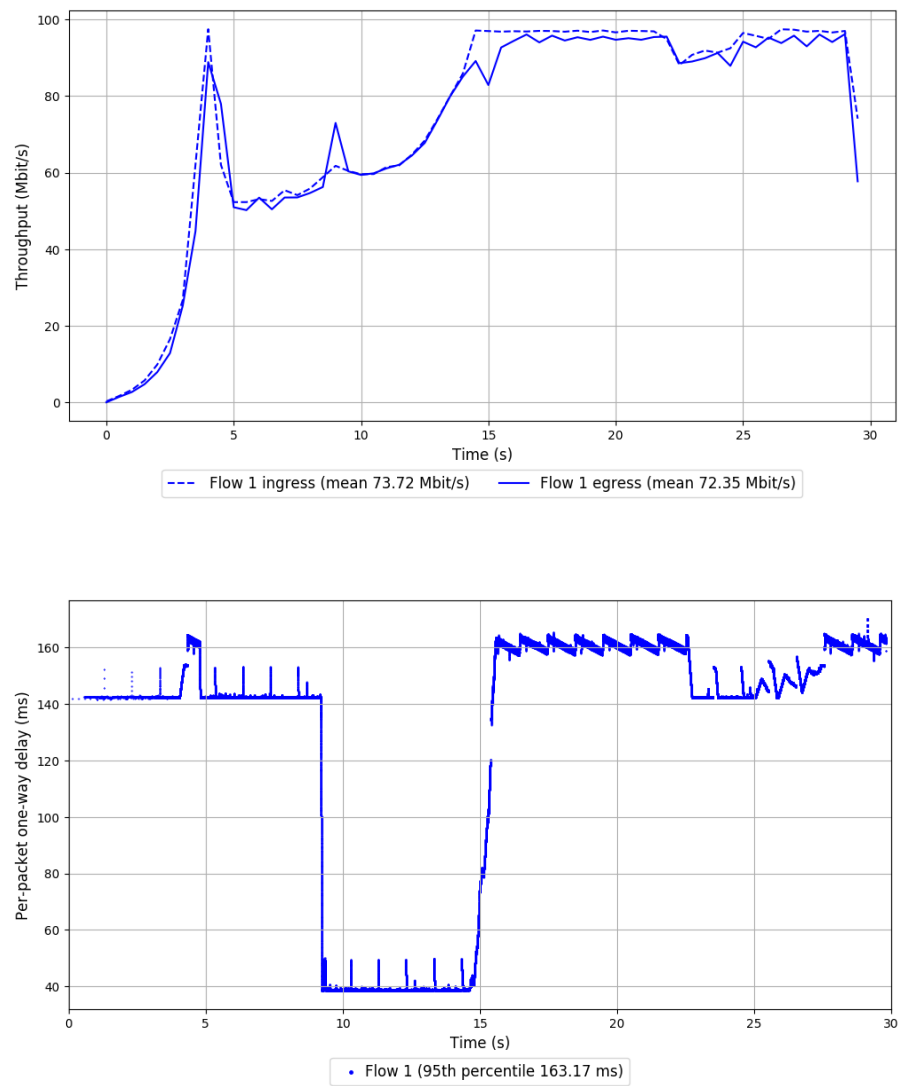
Run 5: Report of Vivace-loss — Data Link

```
Run 6: Statistics of Vivace-loss

Start at: 2018-02-04 06:27:46
End at: 2018-02-04 06:28:16
Local clock offset: 0.621 ms
Remote clock offset: 6.606 ms


# Below is generated by plot.py at 2018-02-04 12:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.38 Mbit/s
95th percentile per-packet one-way delay: 59.182 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 85.38 Mbit/s
95th percentile per-packet one-way delay: 59.182 ms
Loss rate: 0.48%
```
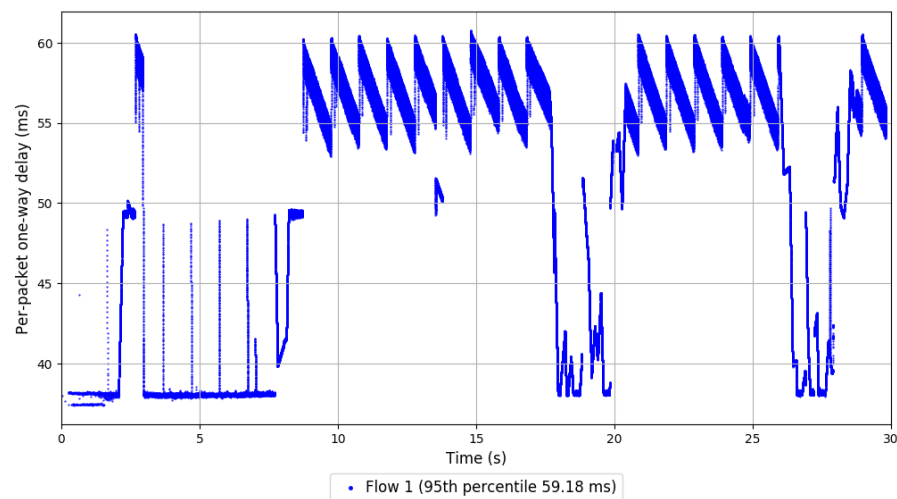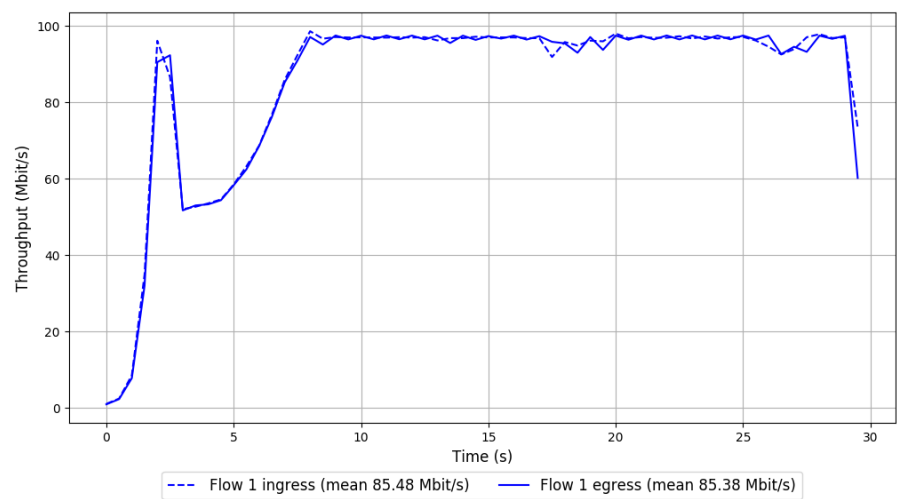
Run 6: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 85.48 Mbit/s)   Flow 1 egress (mean 85.38 Mbit/s)

· Flow 1 (95th percentile 59.18 ms)

Run 7: Statistics of Vivace-loss

/home/ubuntu/pantheon_data/2018-02-04T04-02-China-to-AWS-Korea-10-runs/vivace_loss_stats_run

Run 7: Report of Vivace-loss — Data Link

Figure is missing

Figure is missing

```
Run 8: Statistics of Vivace-loss

Start at: 2018-02-04 07:14:49
End at: 2018-02-04 07:15:19
Local clock offset: 1.379 ms
Remote clock offset: 8.173 ms


# Below is generated by plot.py at 2018-02-04 12:10:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 59.472 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 84.94 Mbit/s
95th percentile per-packet one-way delay: 59.472 ms
Loss rate: 0.51%
```
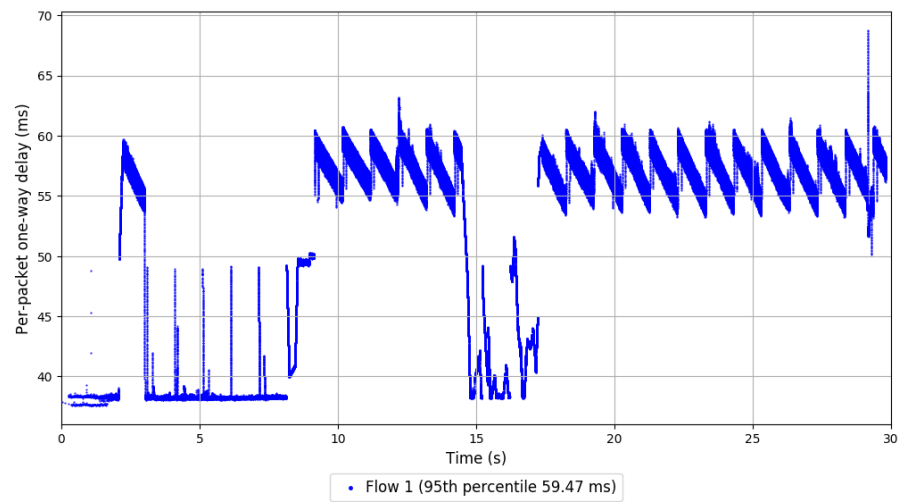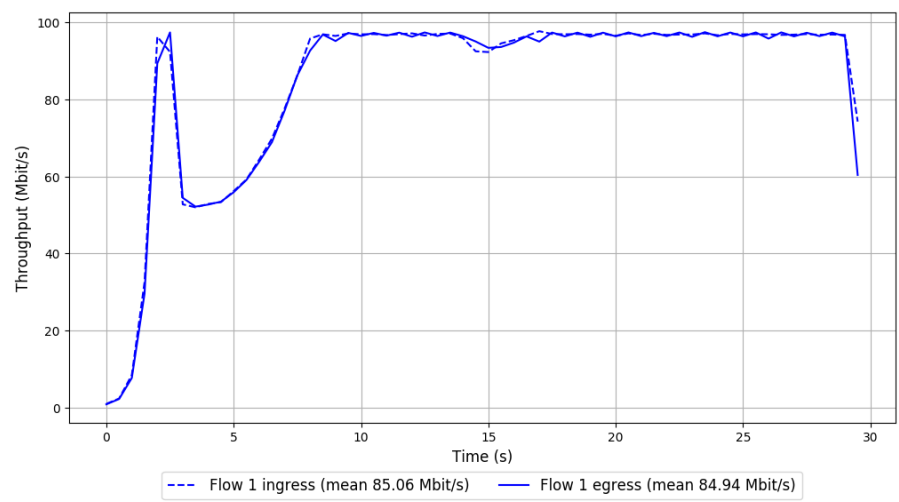
Run 8: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 85.06 Mbit/s) — Flow 1 egress (mean 84.94 Mbit/s)

• Flow 1 (95th percentile 59.47 ms)

```
Run 9: Statistics of Vivace-loss

Start at: 2018-02-04 07:36:36
End at: 2018-02-04 07:37:06
Local clock offset: 1.125 ms
Remote clock offset: 9.589 ms


# Below is generated by plot.py at 2018-02-04 12:10:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.14 Mbit/s
95th percentile per-packet one-way delay: 59.756 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 85.14 Mbit/s
95th percentile per-packet one-way delay: 59.756 ms
Loss rate: 0.49%
```
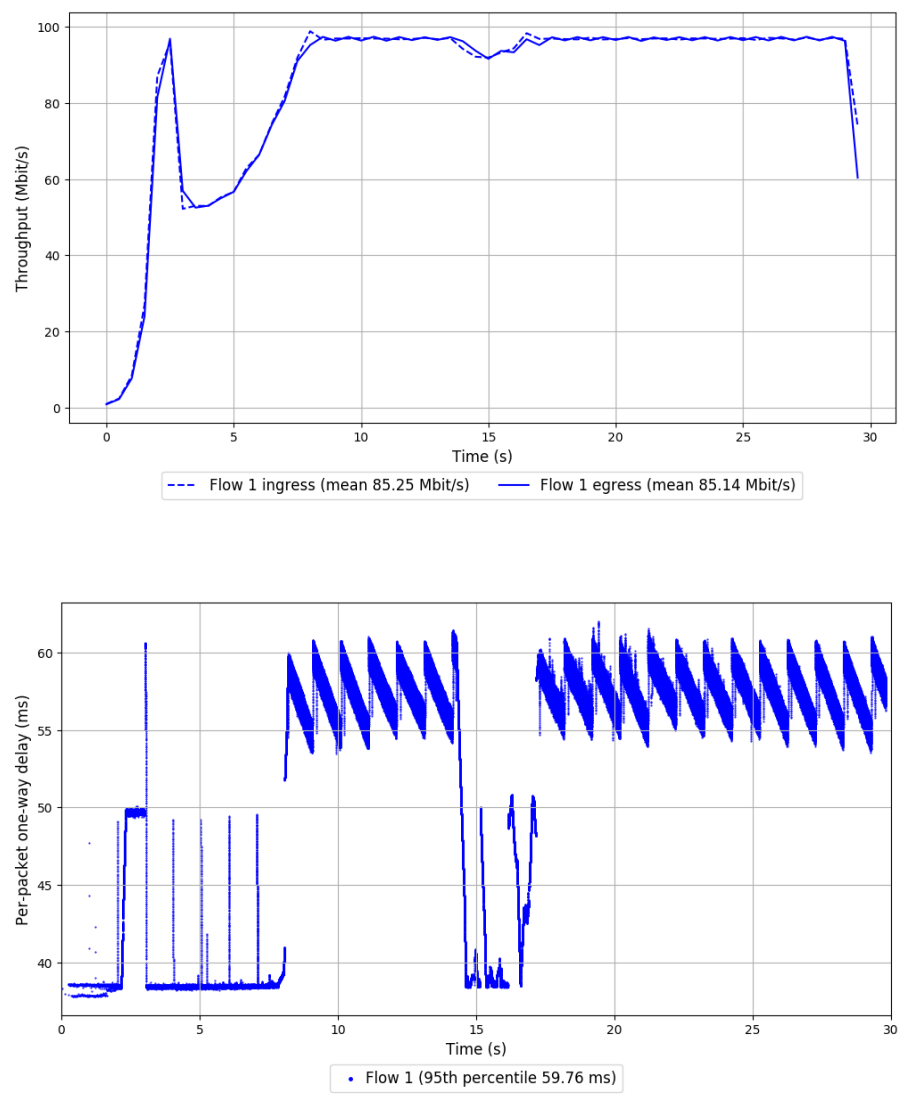
Run 9: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 85.25 Mbit/s)   Flow 1 egress (mean 85.14 Mbit/s)

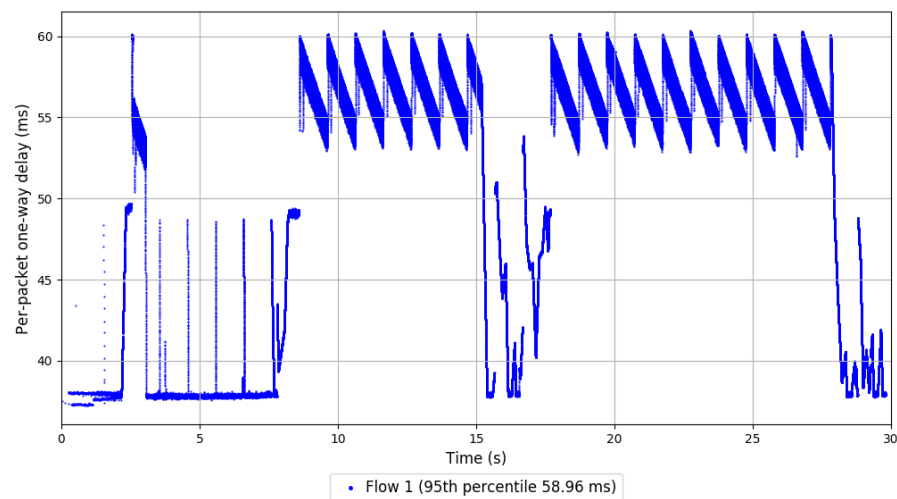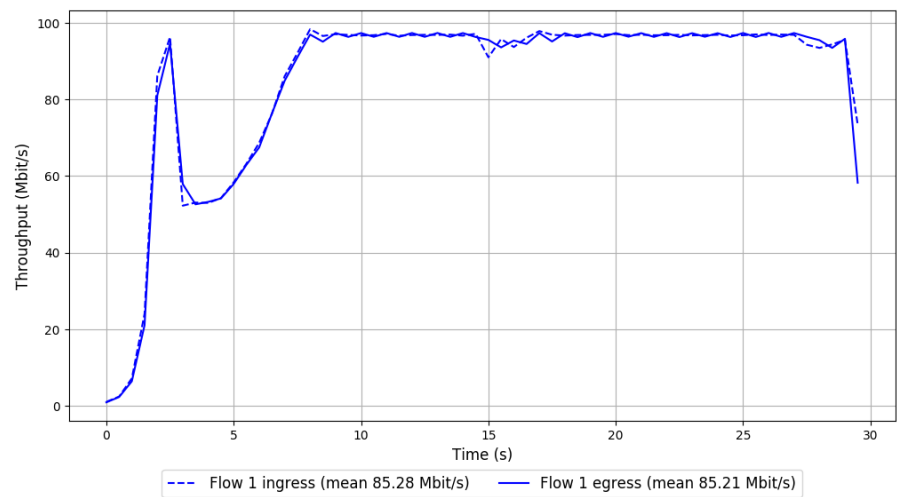

• Flow 1 (95th percentile 59.76 ms)

```
Run 10: Statistics of Vivace-loss

Start at: 2018-02-04 07:58:23
End at: 2018-02-04 07:58:53
Local clock offset: 0.209 ms
Remote clock offset: 10.434 ms


# Below is generated by plot.py at 2018-02-04 12:11:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.21 Mbit/s
95th percentile per-packet one-way delay: 58.958 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 85.21 Mbit/s
95th percentile per-packet one-way delay: 58.958 ms
Loss rate: 0.47%
```

Run 10: Report of Vivace-loss — Data Link

```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-04 04:02:46
End at: 2018-02-04 04:03:16
Local clock offset: -0.371 ms
Remote clock offset: 1.938 ms


# Below is generated by plot.py at 2018-02-04 12:11:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.04 Mbit/s
95th percentile per-packet one-way delay: 141.924 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 54.04 Mbit/s
95th percentile per-packet one-way delay: 141.924 ms
Loss rate: 3.93%
```
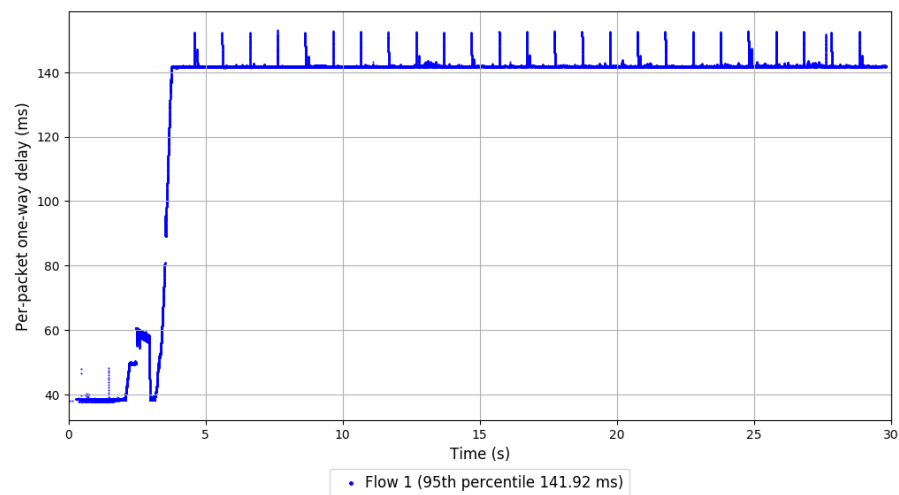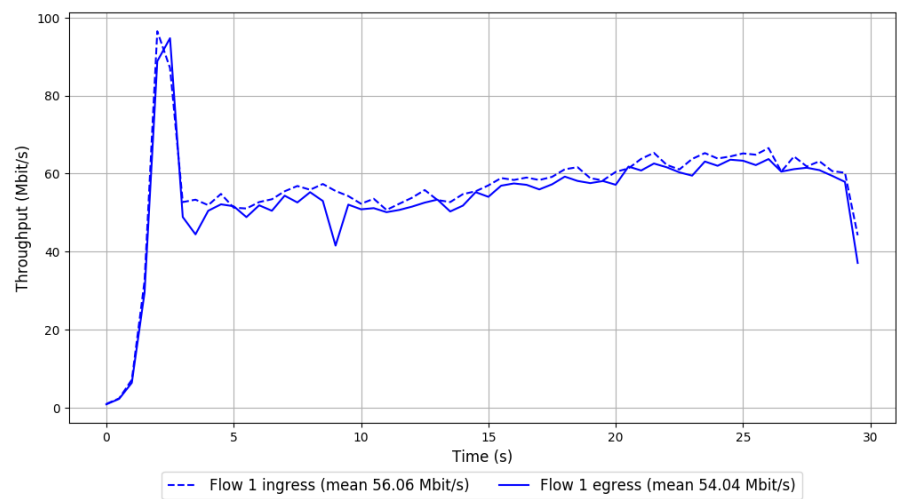
Run 1: Report of Vivace-LTE — Data Link

```
Run 2: Statistics of Vivace-LTE

Start at: 2018-02-04 04:32:40
End at: 2018-02-04 04:33:10
Local clock offset: -2.958 ms
Remote clock offset: 2.567 ms


# Below is generated by plot.py at 2018-02-04 12:11:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.79 Mbit/s
95th percentile per-packet one-way delay: 47.536 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 83.79 Mbit/s
95th percentile per-packet one-way delay: 47.536 ms
Loss rate: 0.39%
```
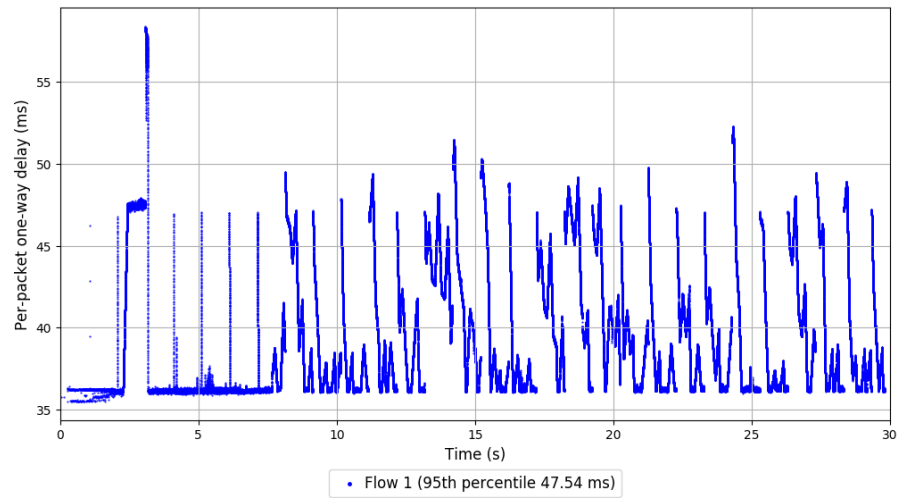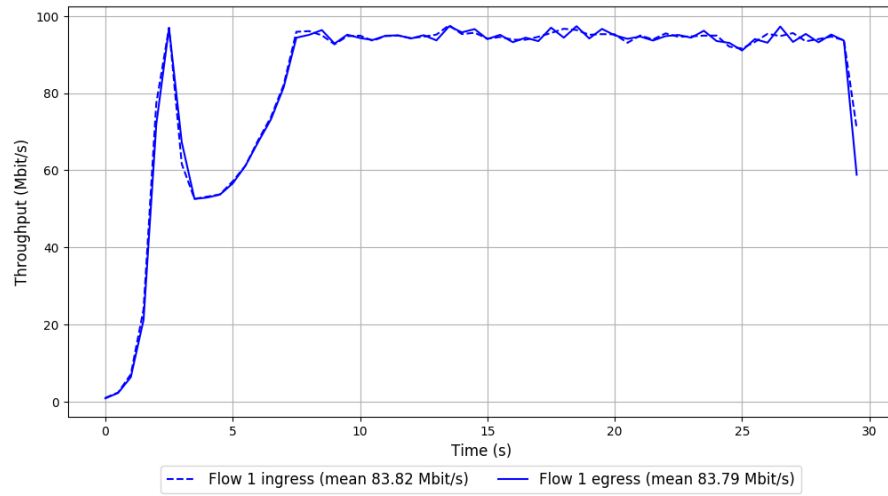
Run 2: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 83.82 Mbit/s) — — —   Flow 1 egress (mean 83.79 Mbit/s) ———

Flow 1 (95th percentile 47.54 ms)

```
Run 3: Statistics of Vivace-LTE

Start at: 2018-02-04 04:54:29
End at: 2018-02-04 04:54:59
Local clock offset: -0.04 ms
Remote clock offset: 3.366 ms


# Below is generated by plot.py at 2018-02-04 12:11:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.64 Mbit/s
95th percentile per-packet one-way delay: 50.400 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 80.64 Mbit/s
95th percentile per-packet one-way delay: 50.400 ms
Loss rate: 0.42%
```
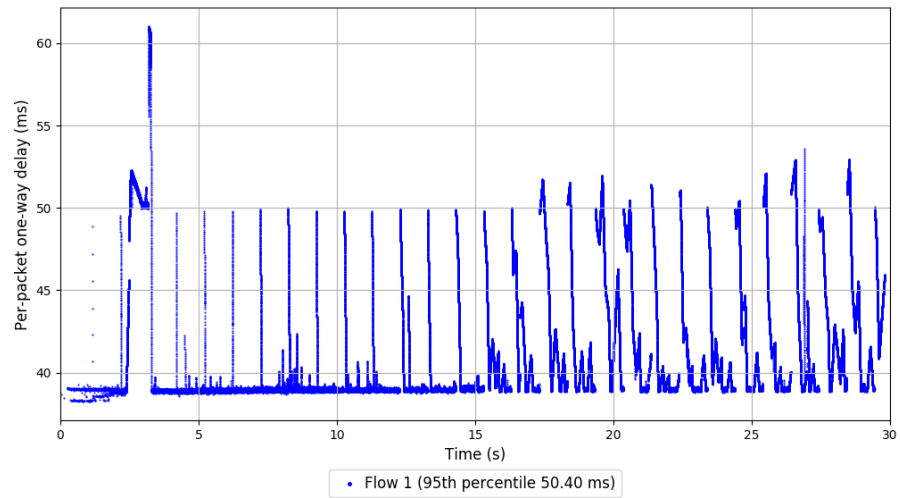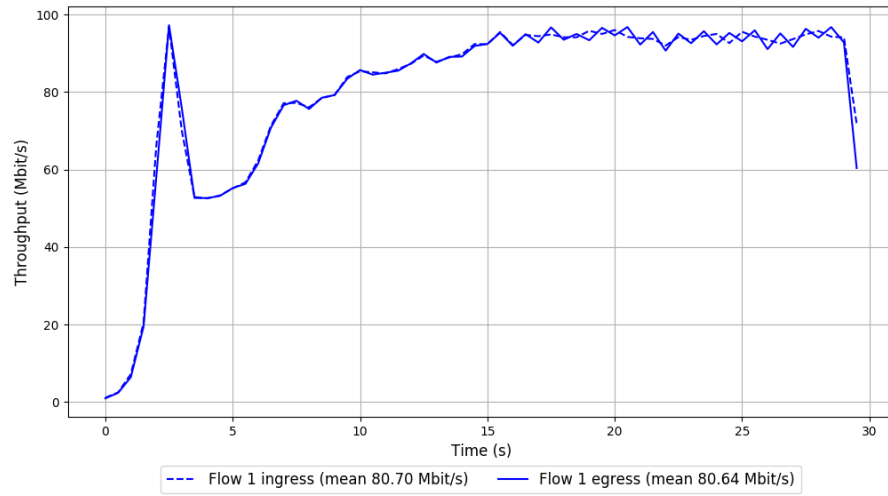
Run 3: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 80.70 Mbit/s) ---- Flow 1 egress (mean 80.64 Mbit/s) ——

Flow 1 (95th percentile 50.40 ms)

```
Run 4: Statistics of Vivace-LTE

Start at: 2018-02-04 05:16:16
End at: 2018-02-04 05:16:46
Local clock offset: 0.011 ms
Remote clock offset: 4.395 ms


# Below is generated by plot.py at 2018-02-04 12:11:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 49.596 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 83.42 Mbit/s
95th percentile per-packet one-way delay: 49.596 ms
Loss rate: 0.41%
```
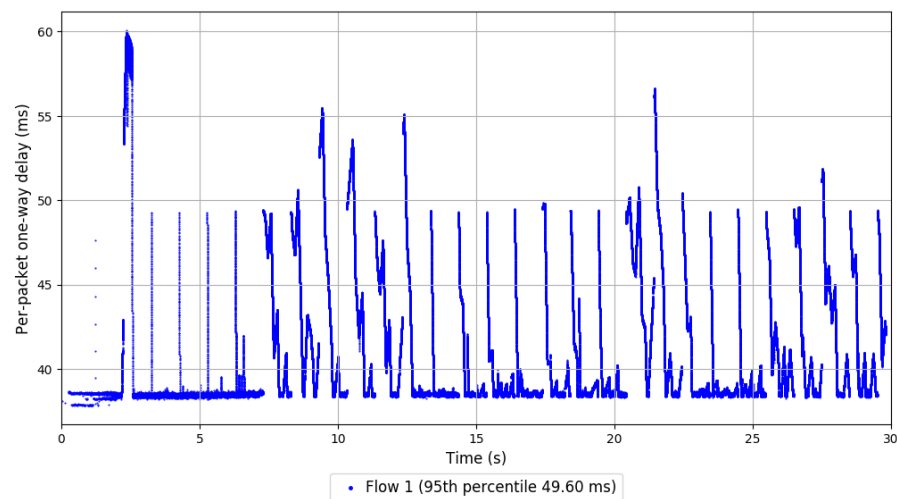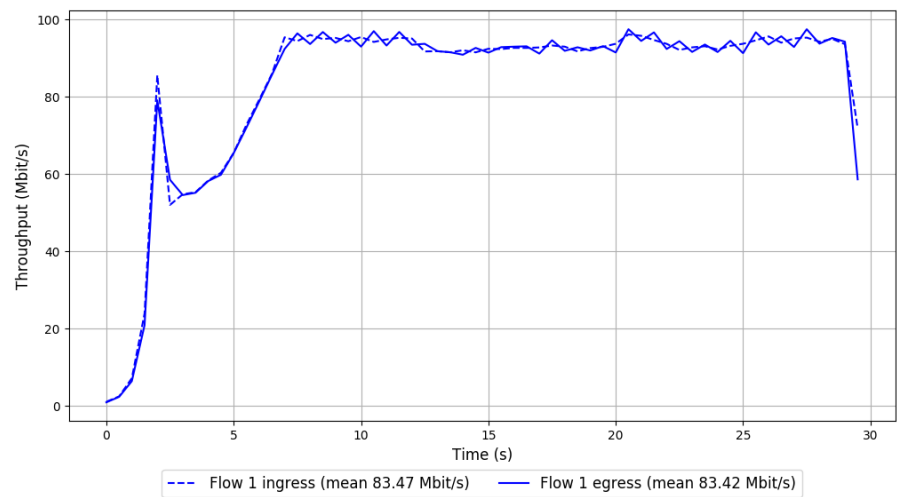
Run 4: Report of Vivace-LTE — Data Link

```
Run 5: Statistics of Vivace-LTE

Start at: 2018-02-04 05:38:00
End at: 2018-02-04 05:38:30
Local clock offset: -2.364 ms
Remote clock offset: 5.36 ms


# Below is generated by plot.py at 2018-02-04 12:11:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 50.730 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 82.50 Mbit/s
95th percentile per-packet one-way delay: 50.730 ms
Loss rate: 0.41%
```

Run 5: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 82.56 Mbit/s)   Flow 1 egress (mean 82.50 Mbit/s)

Flow 1 (95th percentile 50.73 ms)

```
Run 6: Statistics of Vivace-LTE

Start at: 2018-02-04 06:08:16
End at: 2018-02-04 06:08:46
Local clock offset: 0.313 ms
Remote clock offset: 6.121 ms


# Below is generated by plot.py at 2018-02-04 12:11:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.74 Mbit/s
95th percentile per-packet one-way delay: 57.241 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 82.74 Mbit/s
95th percentile per-packet one-way delay: 57.241 ms
Loss rate: 0.41%
```
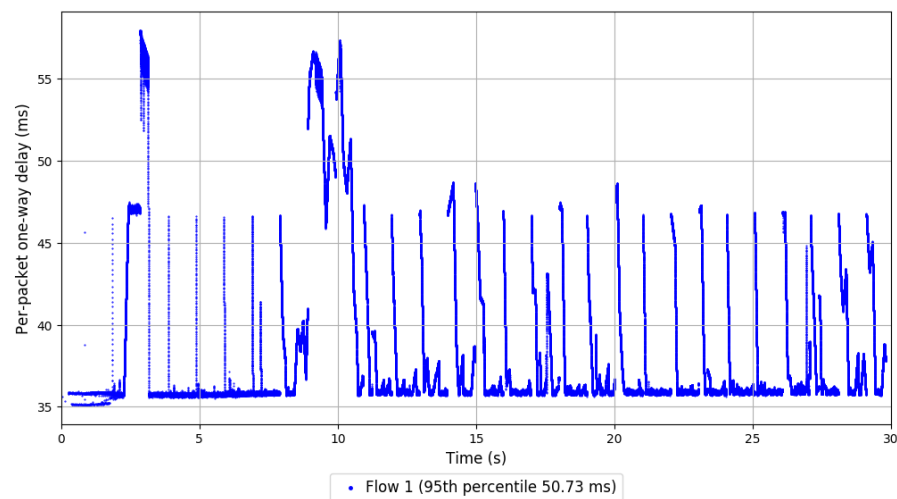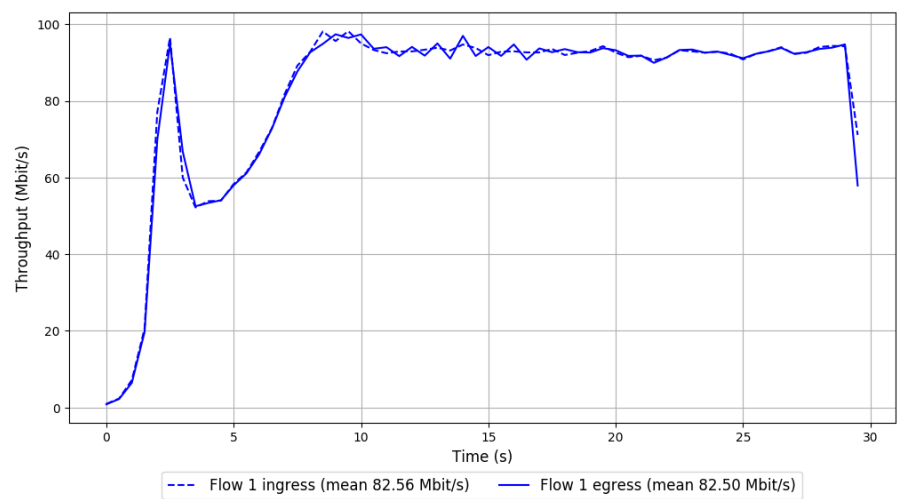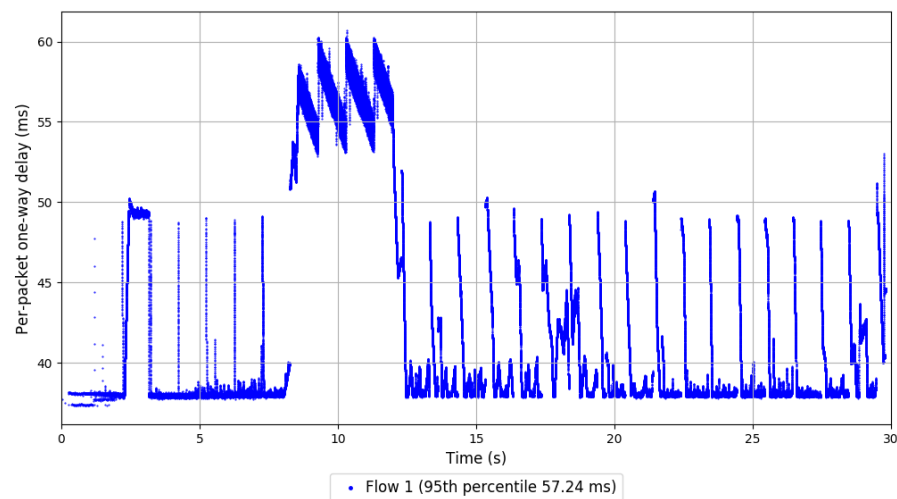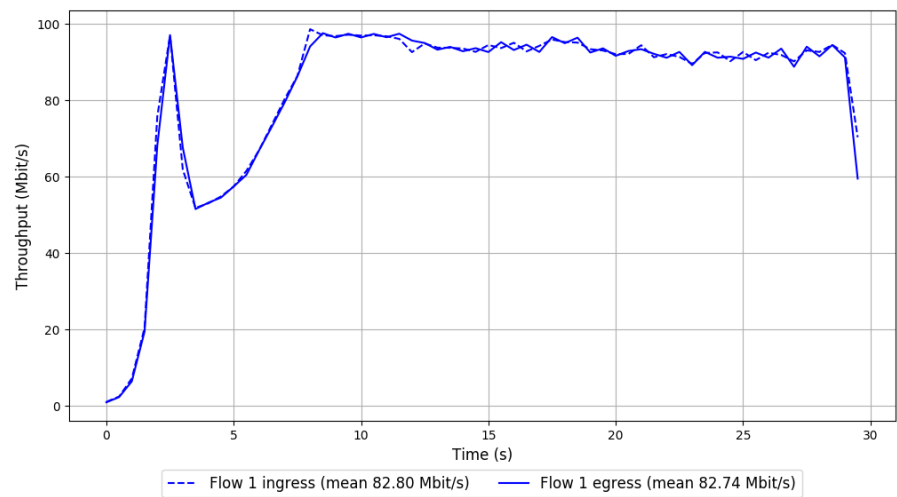
Run 6: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 82.80 Mbit/s)   Flow 1 egress (mean 82.74 Mbit/s)

• Flow 1 (95th percentile 57.24 ms)

```
Run 7: Statistics of Vivace-LTE

Start at: 2018-02-04 06:30:13
End at: 2018-02-04 06:30:43
Local clock offset: -1.722 ms
Remote clock offset: 6.673 ms


# Below is generated by plot.py at 2018-02-04 12:11:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.49 Mbit/s
95th percentile per-packet one-way delay: 48.614 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 83.49 Mbit/s
95th percentile per-packet one-way delay: 48.614 ms
Loss rate: 0.38%
```
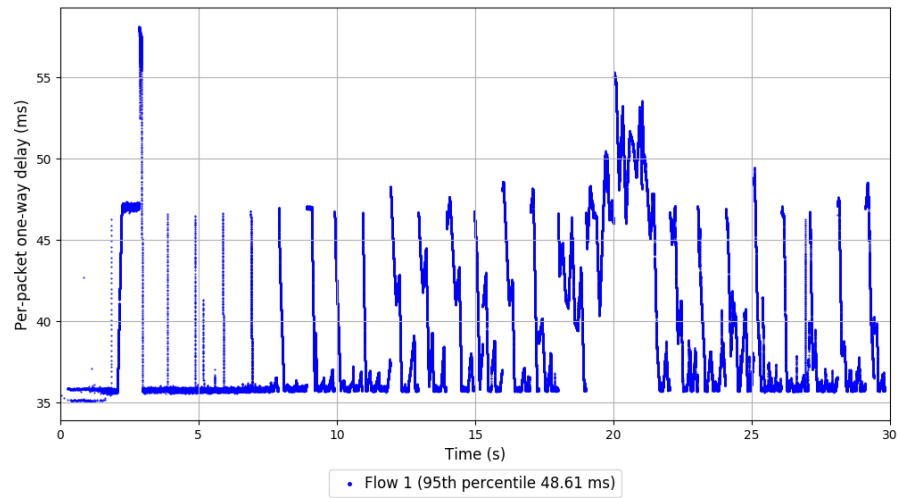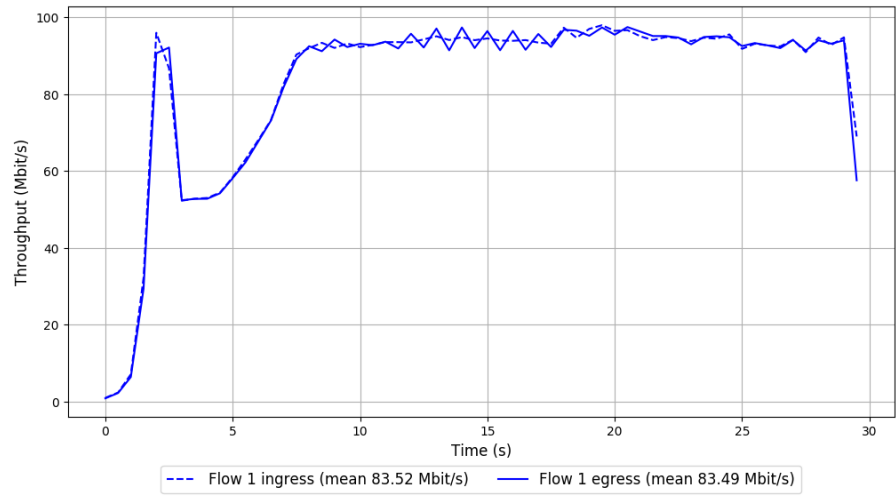
Run 7: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 83.52 Mbit/s)   Flow 1 egress (mean 83.49 Mbit/s)

• Flow 1 (95th percentile 48.61 ms)

Run 8: Statistics of Vivace-LTE

/home/ubuntu/pantheon_data/2018-02-04T04-02-China-to-AWS-Korea-10-runs/vivace_lte_stats_run8

Run 8: Report of Vivace-LTE — Data Link

Figure is missing

Figure is missing

```
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-04 07:17:16
End at: 2018-02-04 07:17:46
Local clock offset: 1.144 ms
Remote clock offset: 8.248 ms


# Below is generated by plot.py at 2018-02-04 12:11:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.40 Mbit/s
95th percentile per-packet one-way delay: 58.371 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 78.40 Mbit/s
95th percentile per-packet one-way delay: 58.371 ms
Loss rate: 0.47%
```
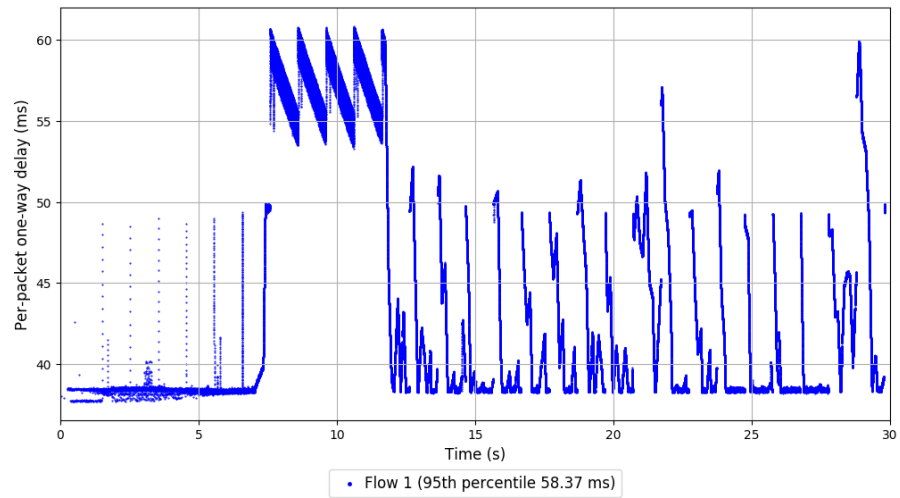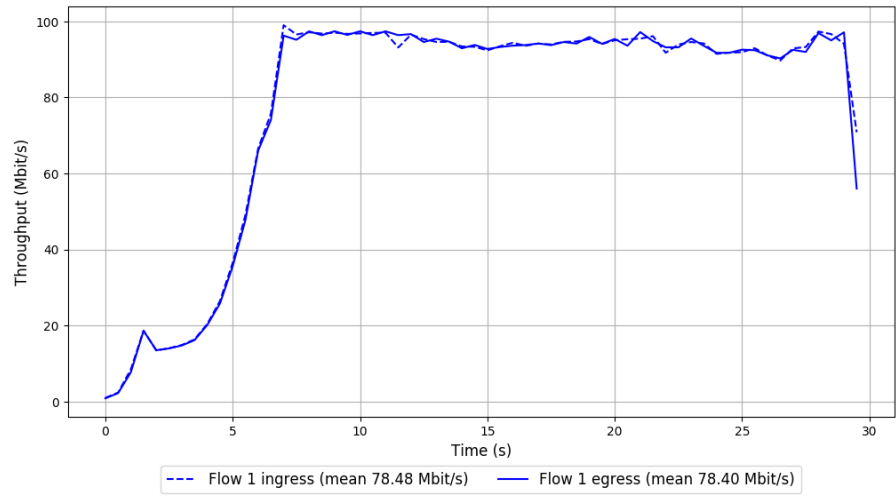
Run 9: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 78.48 Mbit/s) Flow 1 egress (mean 78.40 Mbit/s)

Flow 1 (95th percentile 58.37 ms)

```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-04 07:39:04
End at: 2018-02-04 07:39:34
Local clock offset: 1.17 ms
Remote clock offset: 9.733 ms


# Below is generated by plot.py at 2018-02-04 12:12:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.99 Mbit/s
95th percentile per-packet one-way delay: 49.594 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 79.99 Mbit/s
95th percentile per-packet one-way delay: 49.594 ms
Loss rate: 0.42%
```

Run 10: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 80.05 Mbit/s) --- Flow 1 egress (mean 79.99 Mbit/s)

Flow 1 (95th percentile 49.59 ms)