Pantheon Report

Generated at 2018-01-25 12:19:30 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

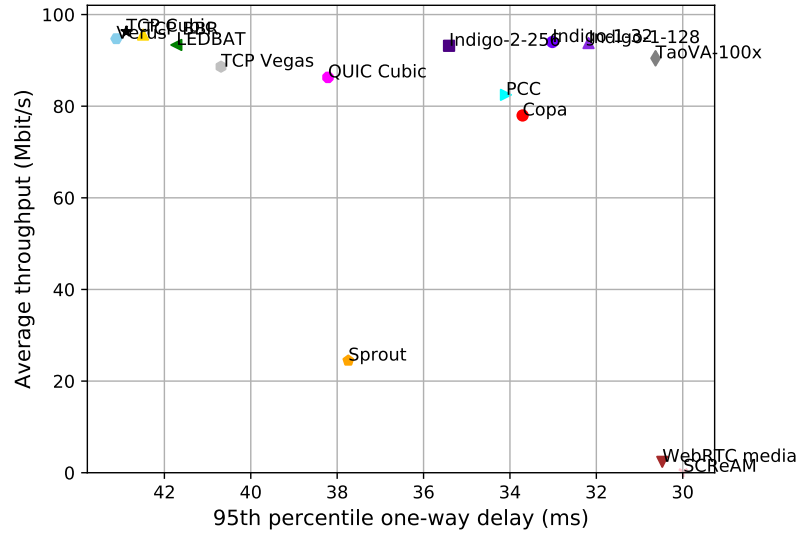Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

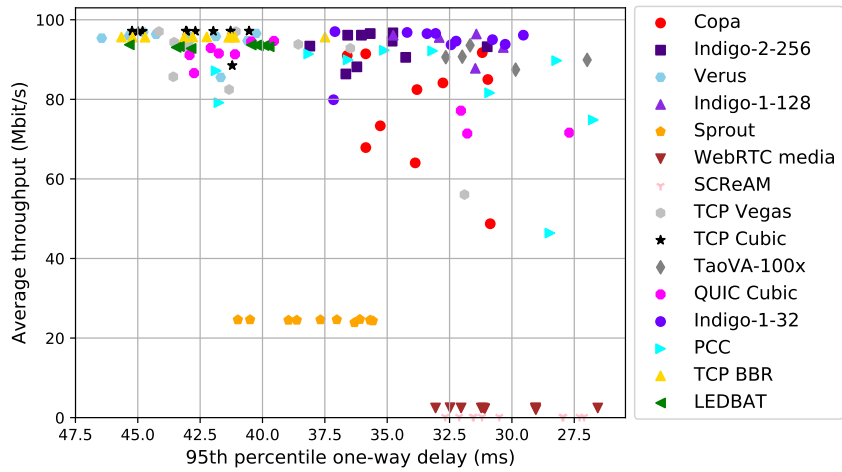NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 636f858be90392c1dac0ee13c40fd1646f45f9e2
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
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 @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from India Ethernet to AWS India 1 Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)

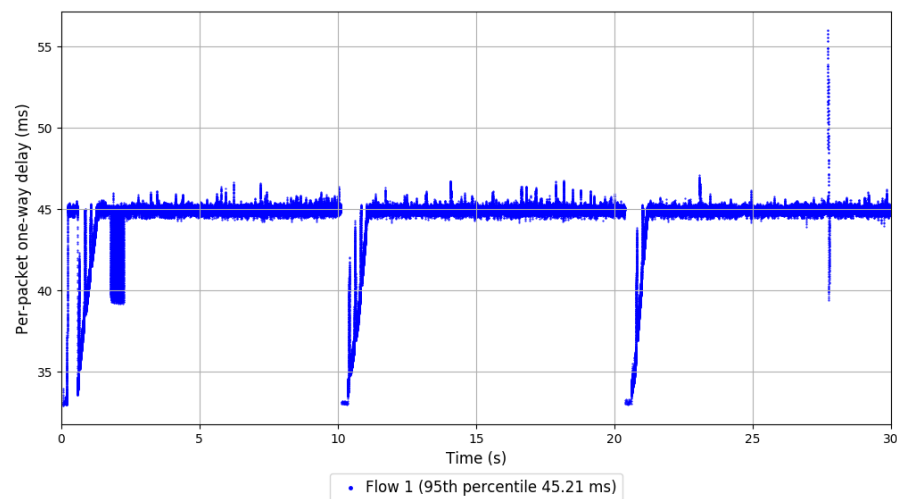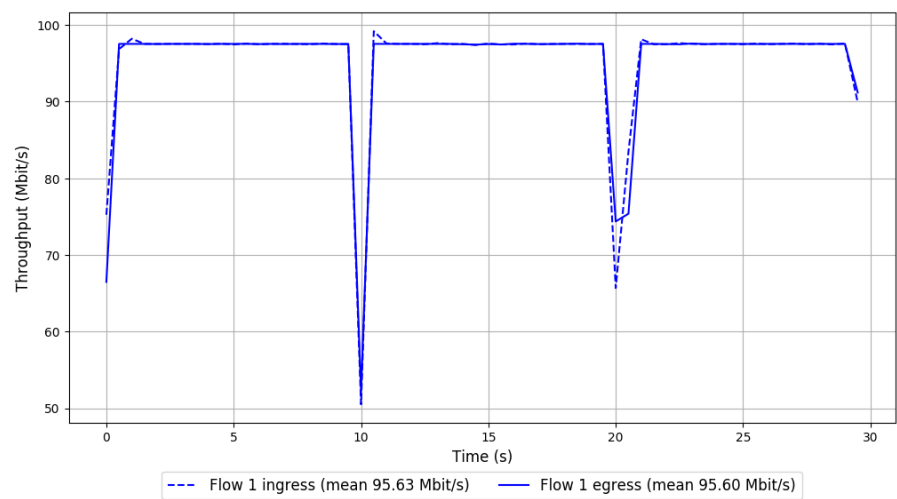test from India Ethernet to AWS India 1 Ethernet, 10 runs of 30s each per scheme

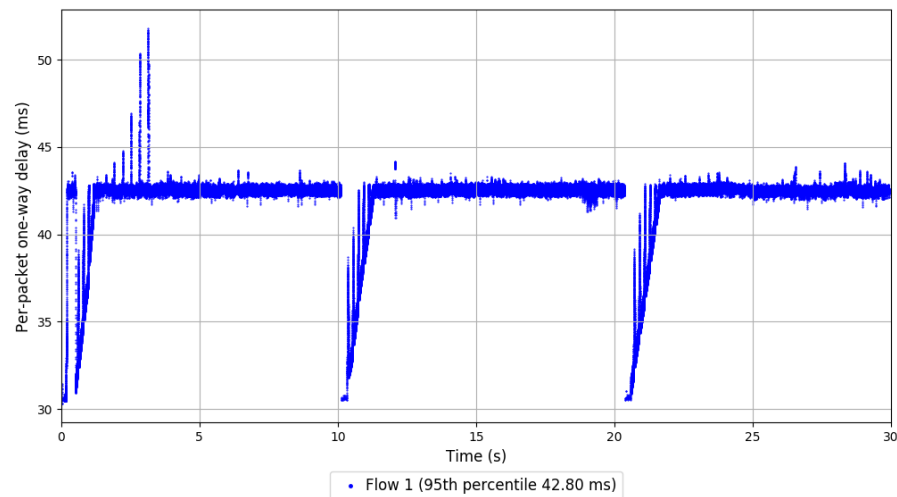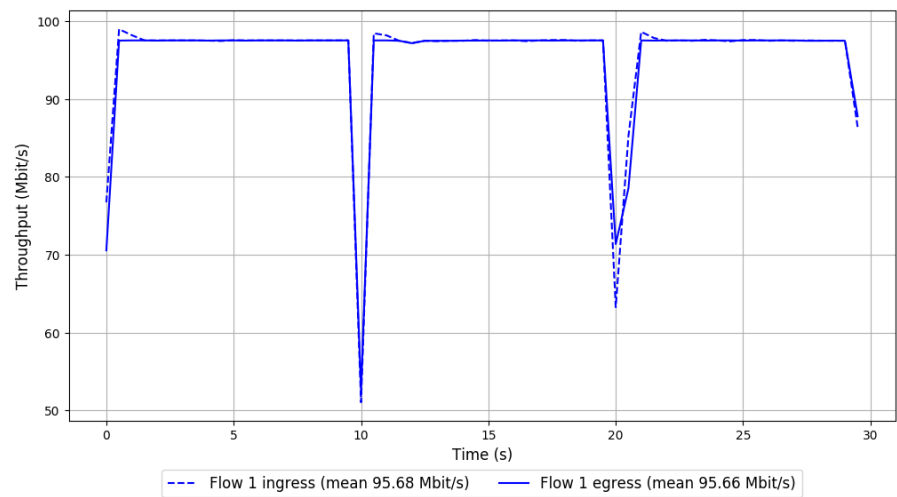| scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	95.64	42.49	0.12
TCP Cubic	10	96.28	42.88	0.13
LEDBAT	9	93.36	41.72	0.12
PCC	10	82.48	34.09	0.29
QUIC Cubic	10	86.29	38.21	0.10
SCReAM	10	0.21	29.99	0.09
WebRTC media	10	2.38	30.47	0.12
Sprout	10	24.49	37.74	0.09
TaoVA-100x	5	90.45	30.63	0.08
TCP Vegas	10	88.62	40.69	0.07
Verus	10	94.73	43.11	0.12
Copa	10	77.97	33.71	0.08
Indigo-2-256	10	93.18	35.41	0.11
Indigo-1-32	10	94.01	33.02	0.09
Indigo-1-128	5	93.78	32.18	0.08

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-25 05:54:25
End at: 2018-01-25 05:54:55
Local clock offset: 2.425 ms
Remote clock offset: -18.063 ms

# Below is generated by plot.py at 2018-01-25 11:58:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 45.211 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.60 Mbit/s
95th percentile per-packet one-way delay: 45.211 ms
Loss rate: 0.13%
```

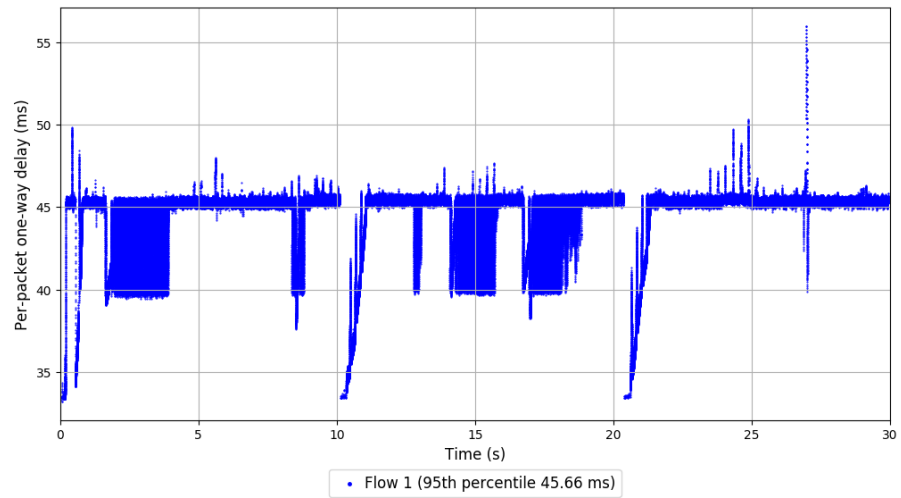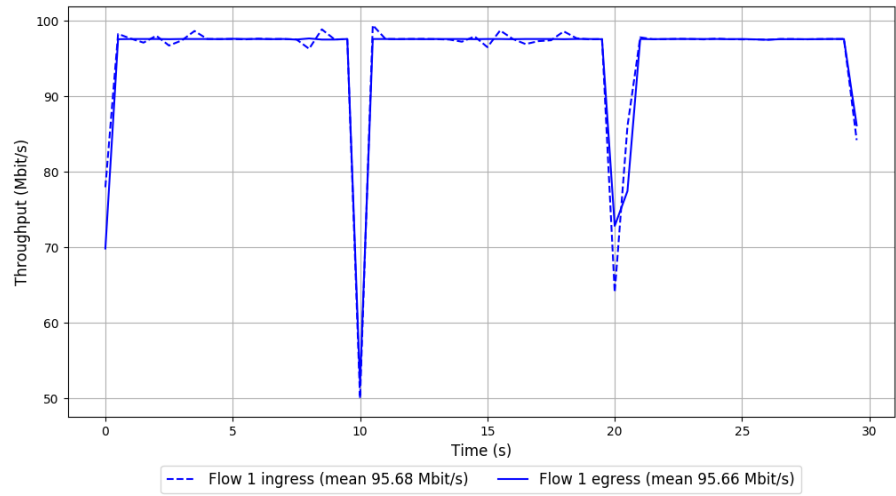Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2018-01-25 06:13:26
End at: 2018-01-25 06:13:56
Local clock offset: 2.273 ms
Remote clock offset: -18.649 ms


# Below is generated by plot.py at 2018-01-25 11:58:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 42.801 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 42.801 ms
Loss rate: 0.12%
```
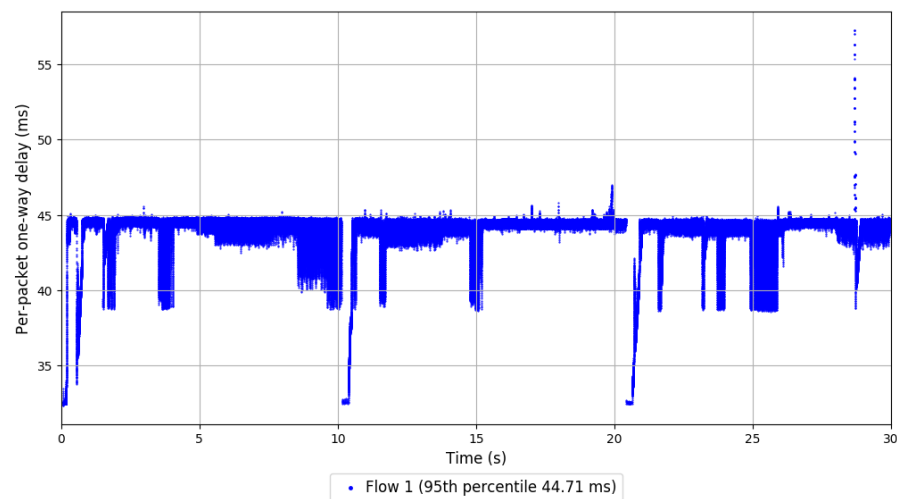
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2018-01-25 06:32:02
End at: 2018-01-25 06:32:32
Local clock offset: 3.369 ms
Remote clock offset: -19.074 ms


# Below is generated by plot.py at 2018-01-25 11:58:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 45.655 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 45.655 ms
Loss rate: 0.12%
```
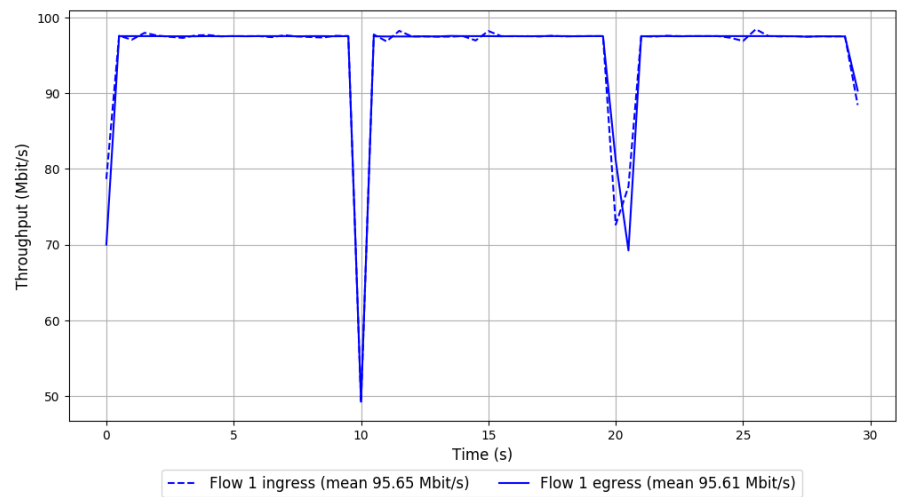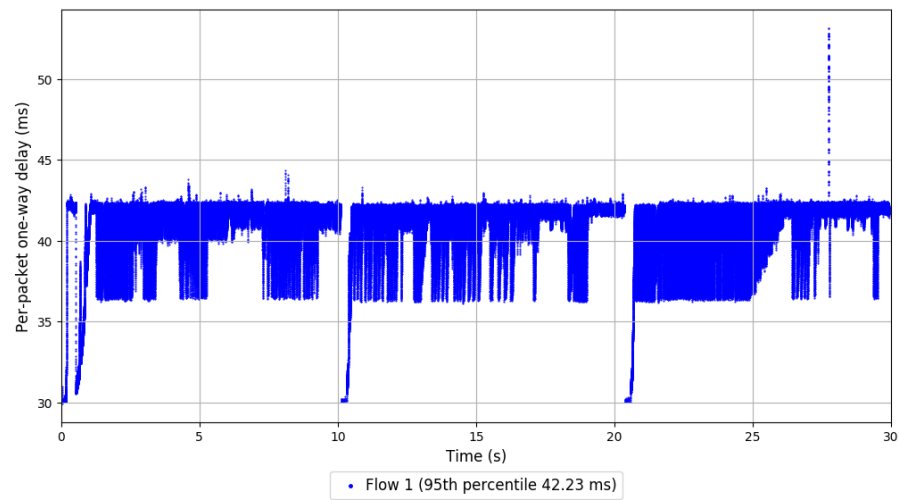
Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2018-01-25 06:50:49
End at: 2018-01-25 06:51:19
Local clock offset: 2.702 ms
Remote clock offset: -17.177 ms


# Below is generated by plot.py at 2018-01-25 11:58:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 44.708 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 44.708 ms
Loss rate: 0.12%
```

Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 95.65 Mbit/s)   Flow 1 egress (mean 95.61 Mbit/s)
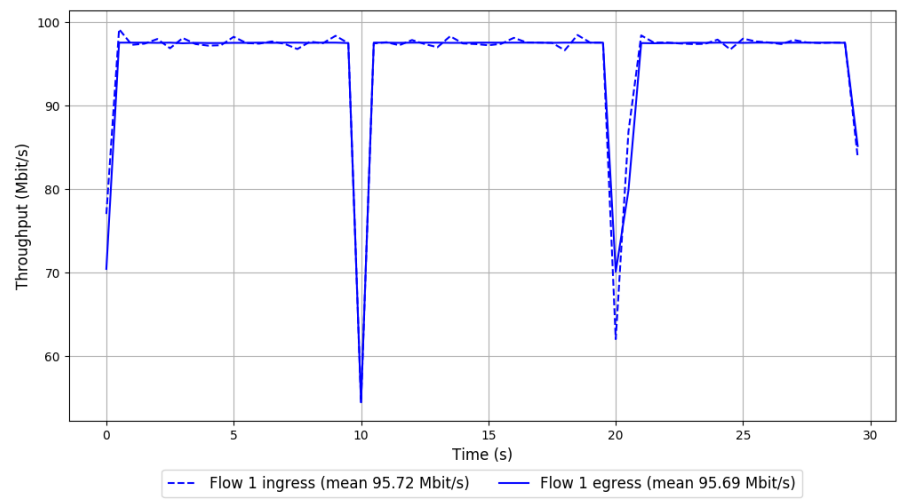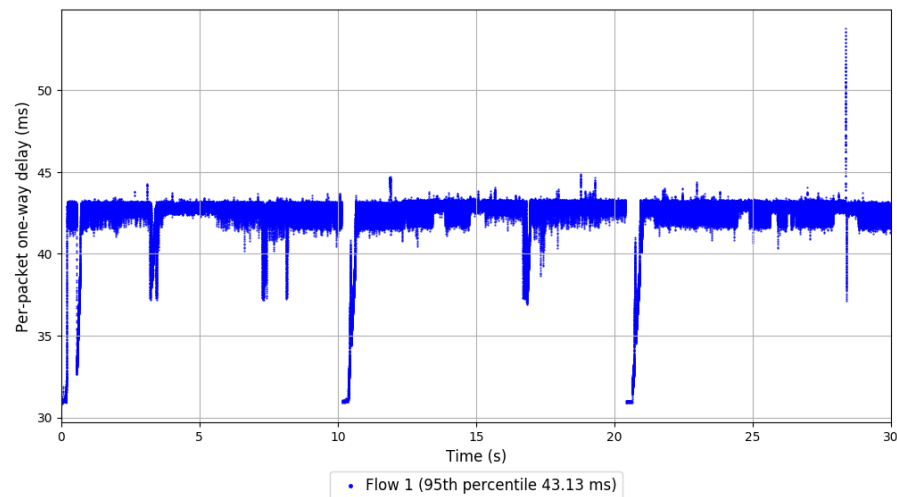

Flow 1 (95th percentile 44.71 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2018-01-25 07:09:39
End at: 2018-01-25 07:10:09
Local clock offset: 0.115 ms
Remote clock offset: -17.087 ms


# Below is generated by plot.py at 2018-01-25 11:58:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 42.234 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.69 Mbit/s
95th percentile per-packet one-way delay: 42.234 ms
Loss rate: 0.12%
```
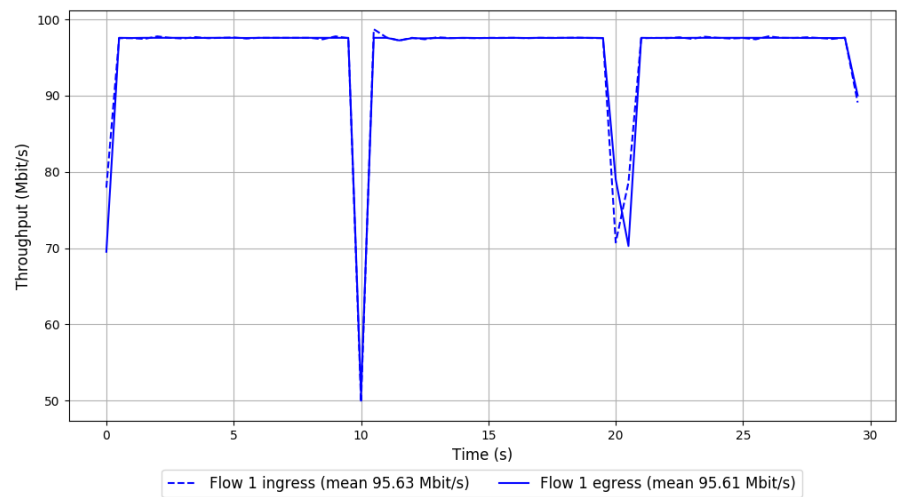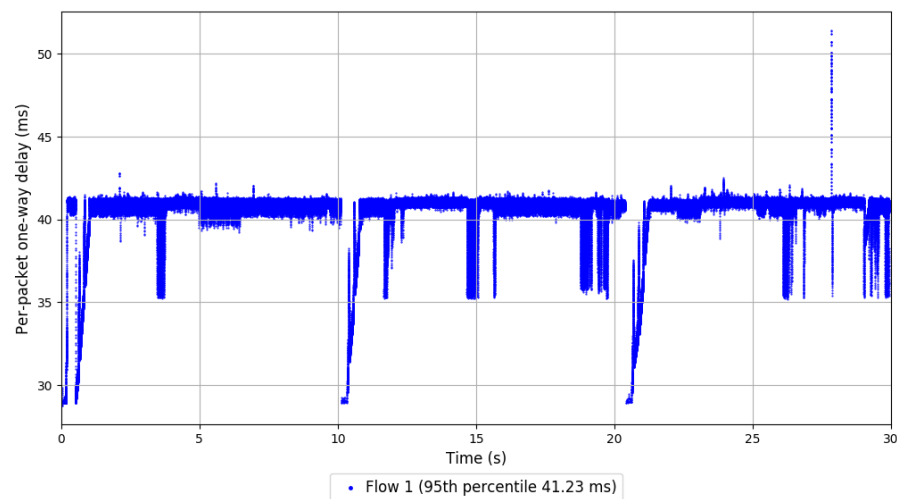
Run 5: Report of TCP BBR — Data Link

```
Run 6: Statistics of TCP BBR

Start at: 2018-01-25 07:28:25
End at: 2018-01-25 07:28:55
Local clock offset: 1.689 ms
Remote clock offset: -16.565 ms


# Below is generated by plot.py at 2018-01-25 11:58:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 43.132 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 43.132 ms
Loss rate: 0.13%
```

Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 95.63 Mbit/s)   Flow 1 egress (mean 95.61 Mbit/s)

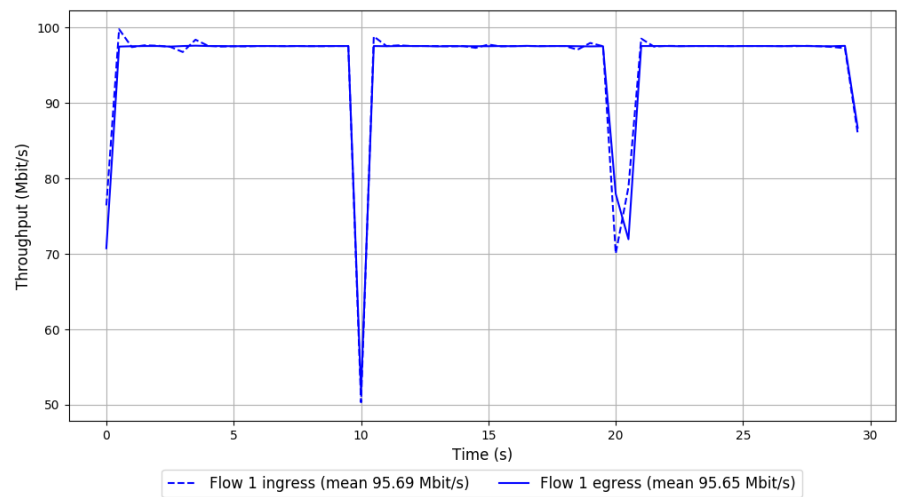Flow 1 (95th percentile 43.13 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-01-25 07:47:18
End at: 2018-01-25 07:47:48
Local clock offset: -0.016 ms
Remote clock offset: -15.939 ms


# Below is generated by plot.py at 2018-01-25 11:58:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 41.231 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 41.231 ms
Loss rate: 0.12%
```
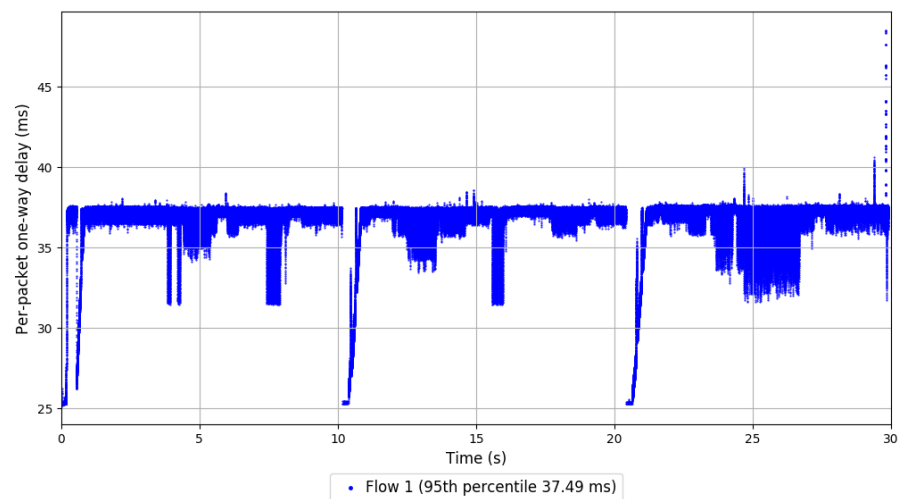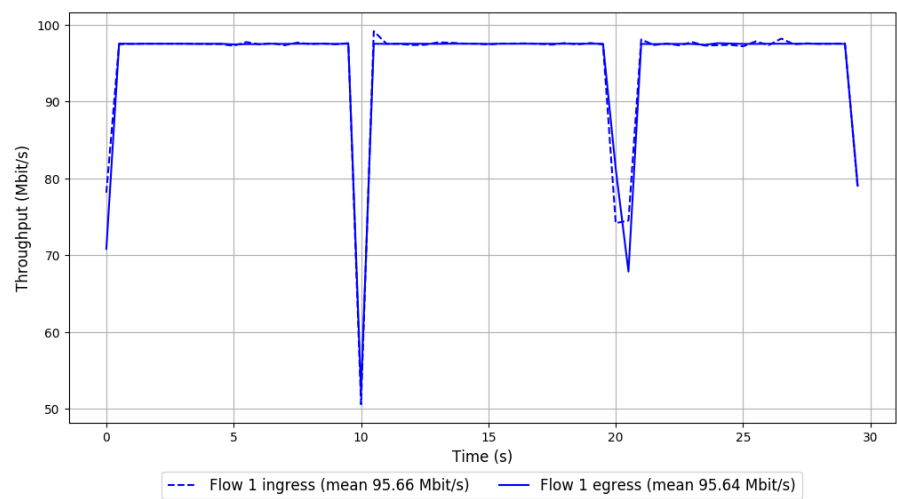
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 95.69 Mbit/s)   Flow 1 egress (mean 95.65 Mbit/s)
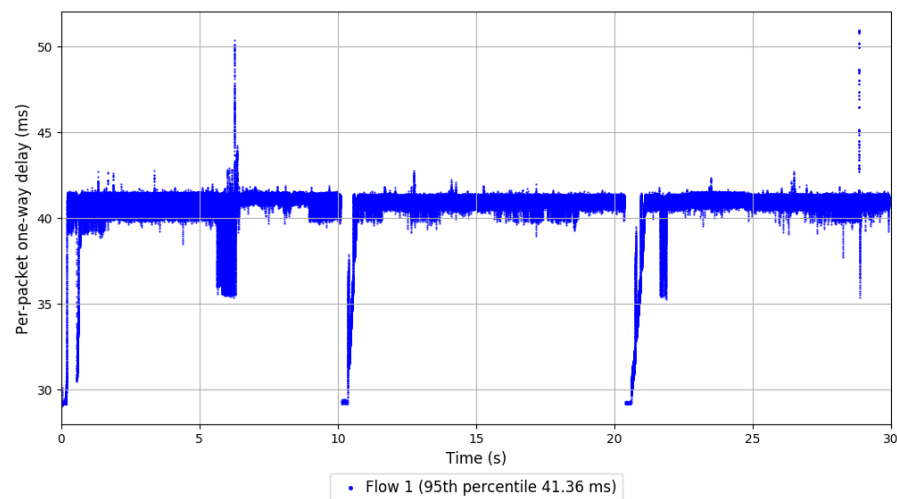

Flow 1 (95th percentile 41.23 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-01-25 08:06:08
End at: 2018-01-25 08:06:38
Local clock offset: -2.94 ms
Remote clock offset: -15.72 ms


# Below is generated by plot.py at 2018-01-25 11:58:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 37.494 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.64 Mbit/s
95th percentile per-packet one-way delay: 37.494 ms
Loss rate: 0.12%
```

Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 95.66 Mbit/s)   Flow 1 egress (mean 95.64 Mbit/s)

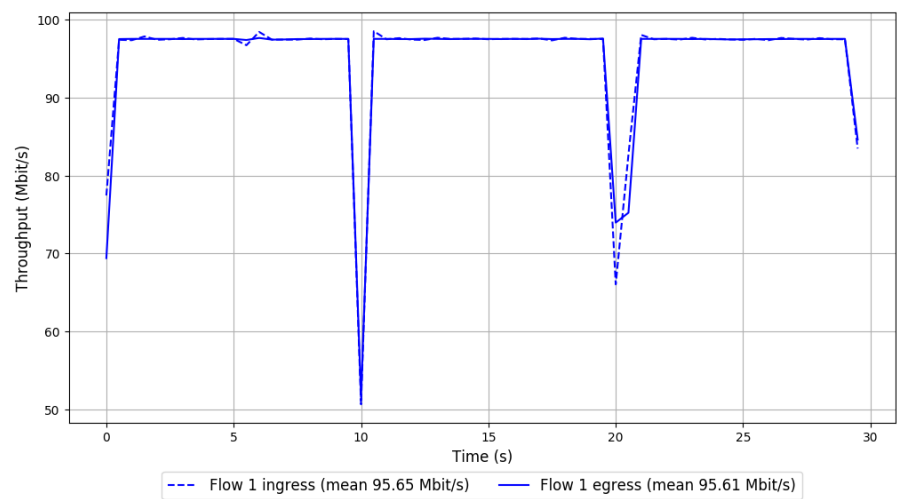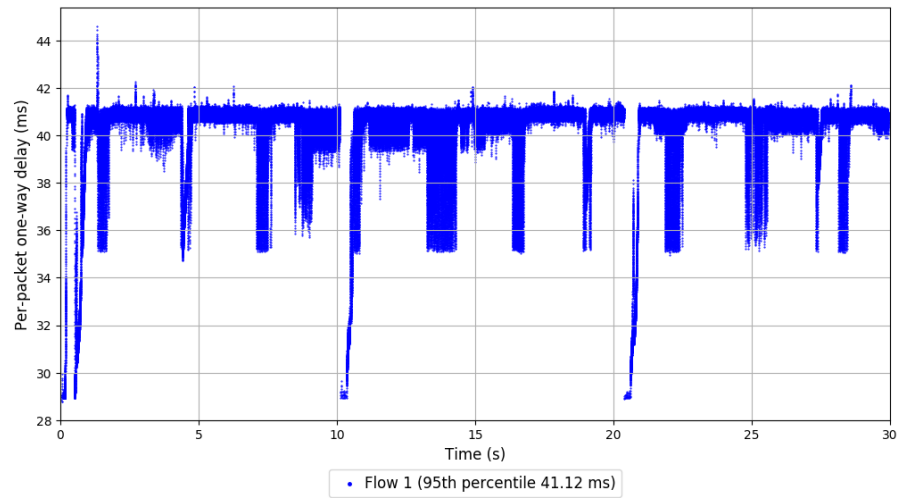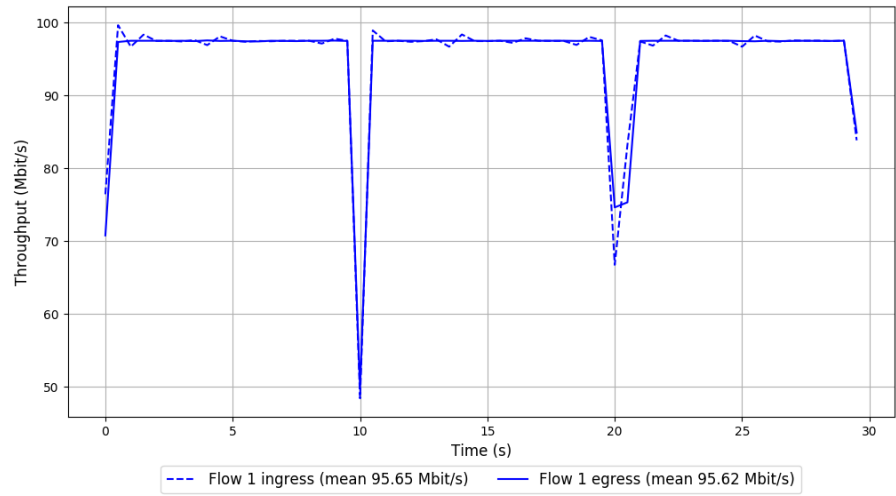Flow 1 (95th percentile 37.49 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-01-25 08:25:08
End at: 2018-01-25 08:25:38
Local clock offset: -0.962 ms
Remote clock offset: -16.326 ms

# Below is generated by plot.py at 2018-01-25 12:00:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 41.356 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.61 Mbit/s
95th percentile per-packet one-way delay: 41.356 ms
Loss rate: 0.12%
```
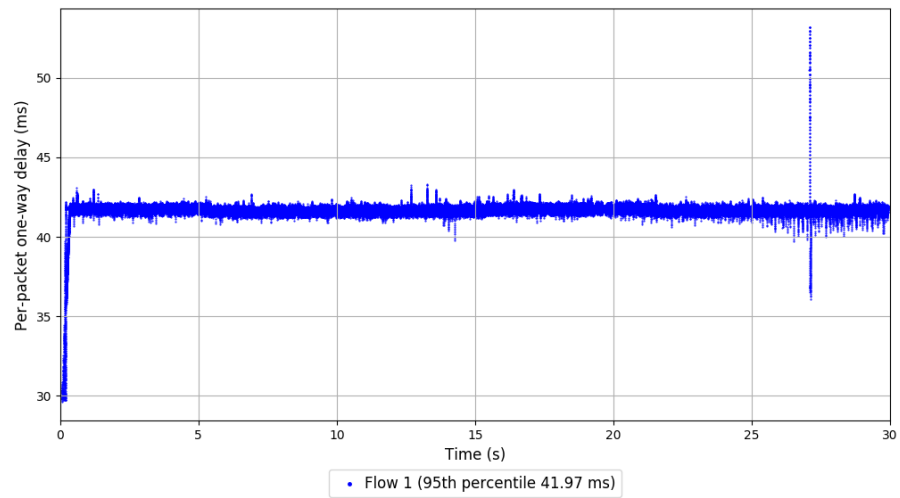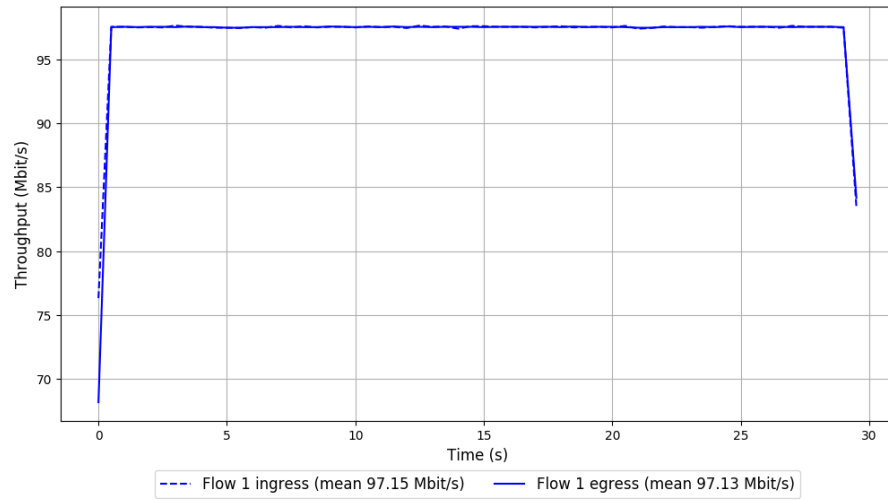
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 95.65 Mbit/s) —— Flow 1 egress (mean 95.61 Mbit/s)

• Flow 1 (95th percentile 41.36 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-01-25 08:43:43
End at: 2018-01-25 08:44:13
Local clock offset: -1.352 ms
Remote clock offset: -16.706 ms

# Below is generated by plot.py at 2018-01-25 12:00:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 41.116 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 41.116 ms
Loss rate: 0.12%
```
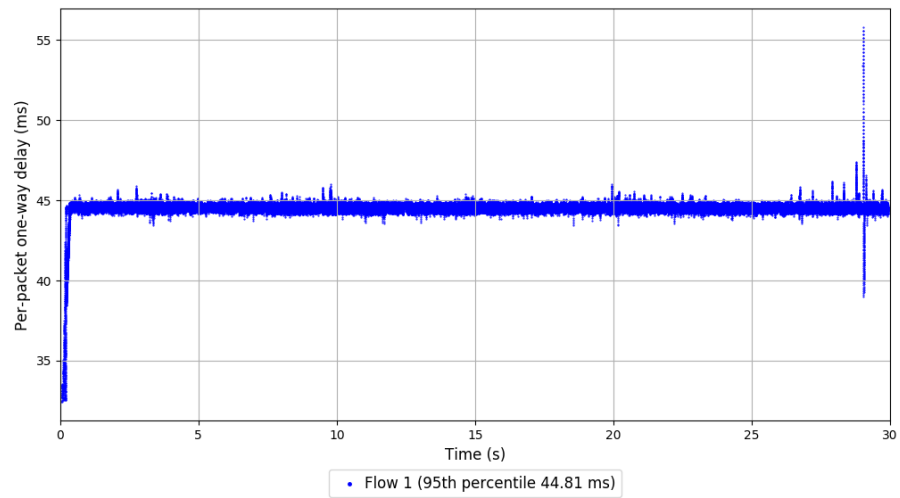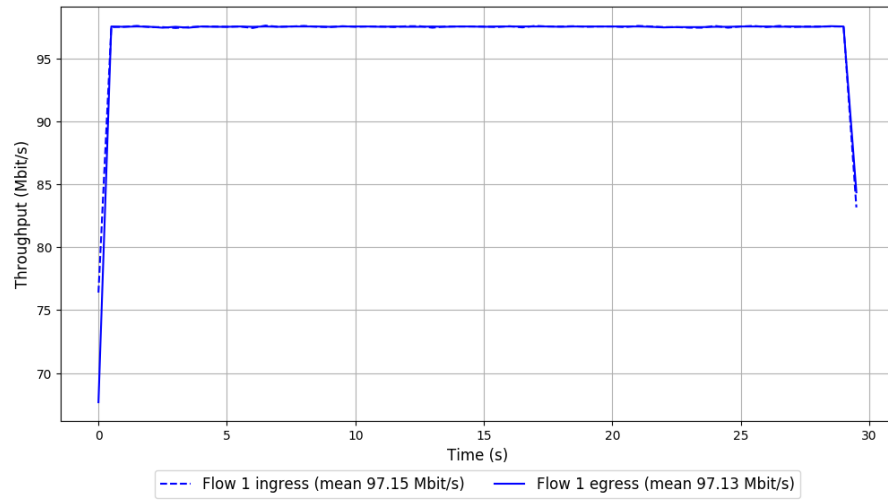
Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 95.65 Mbit/s) --- Flow 1 egress (mean 95.62 Mbit/s)

Flow 1 (95th percentile 41.12 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-25 05:44:57
End at: 2018-01-25 05:45:27
Local clock offset: -2.018 ms
Remote clock offset: -19.231 ms


# Below is generated by plot.py at 2018-01-25 12:00:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 41.970 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 41.970 ms
Loss rate: 0.13%
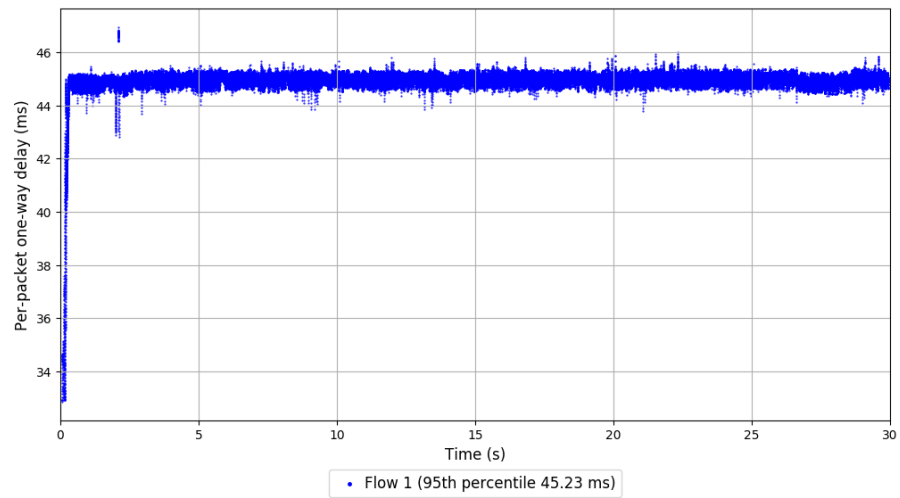```
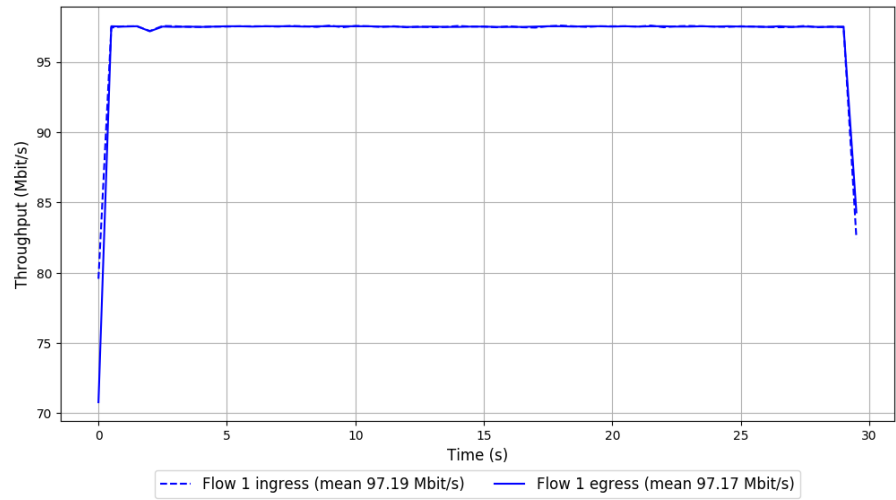
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2018-01-25 06:04:04
End at: 2018-01-25 06:04:34
Local clock offset: 0.654 ms
Remote clock offset: -19.352 ms

Below is generated by plot.py at 2018-01-25 12:00:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 44.808 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 44.808 ms
Loss rate: 0.13%
```
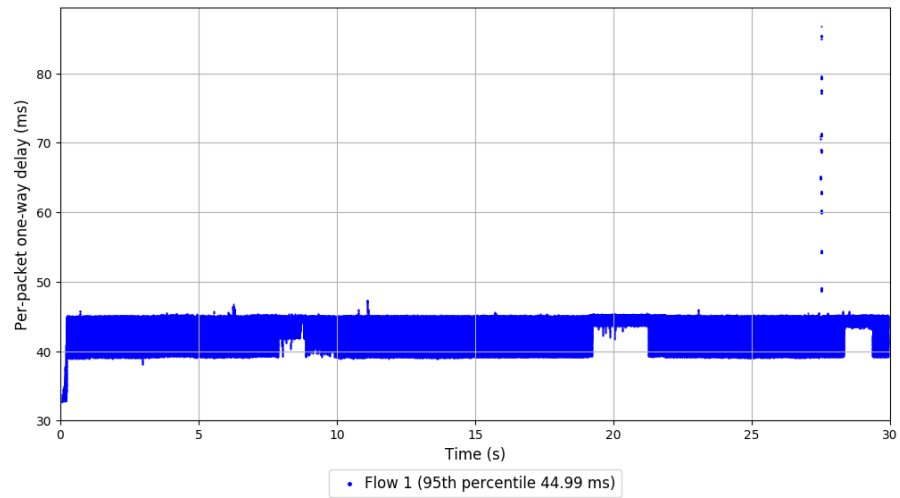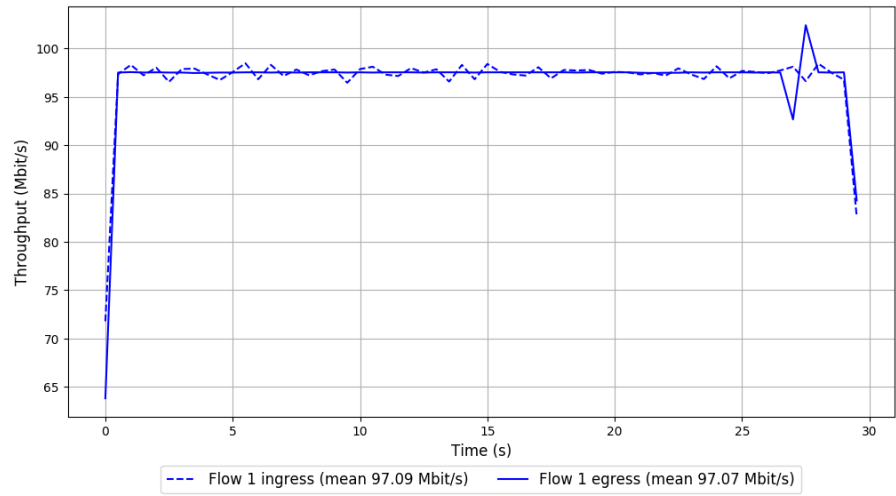
Run 2: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 97.15 Mbit/s)    —— Flow 1 egress (mean 97.13 Mbit/s)



• Flow 1 (95th percentile 44.81 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2018-01-25 06:22:45
End at: 2018-01-25 06:23:15
Local clock offset: 3.424 ms
Remote clock offset: -19.447 ms

Below is generated by plot.py at 2018-01-25 12:00:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 45.230 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.17 Mbit/s
95th percentile per-packet one-way delay: 45.230 ms
Loss rate: 0.12%
```
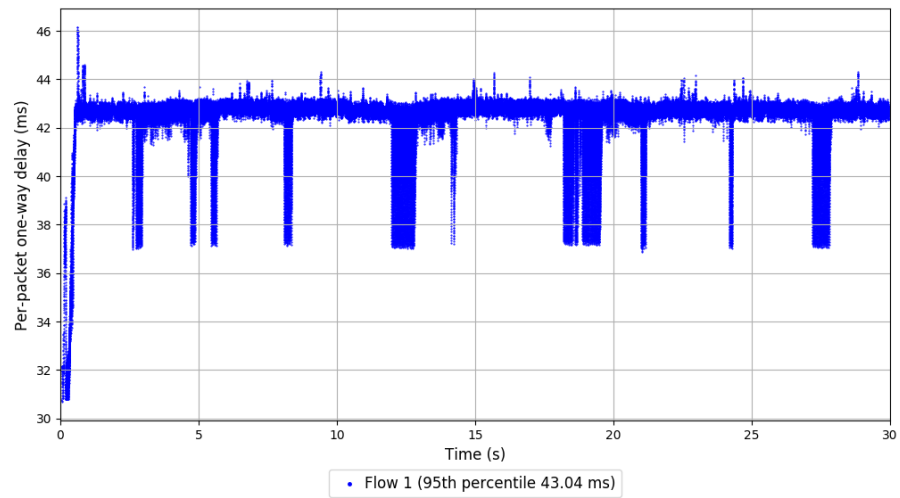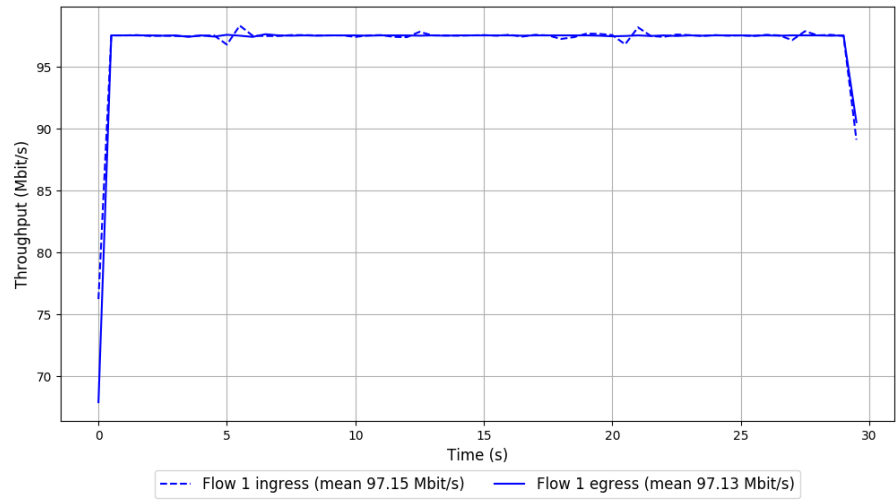
# Run 3: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 97.19 Mbit/s) ----    Flow 1 egress (mean 97.17 Mbit/s) ——



• Flow 1 (95th percentile 45.23 ms)

29

```
Run 4: Statistics of TCP Cubic

Start at: 2018-01-25 06:41:21
End at: 2018-01-25 06:41:51
Local clock offset: 2.373 ms
Remote clock offset: -18.423 ms

Below is generated by plot.py at 2018-01-25 12:00:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 44.989 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 44.989 ms
Loss rate: 0.11%
```
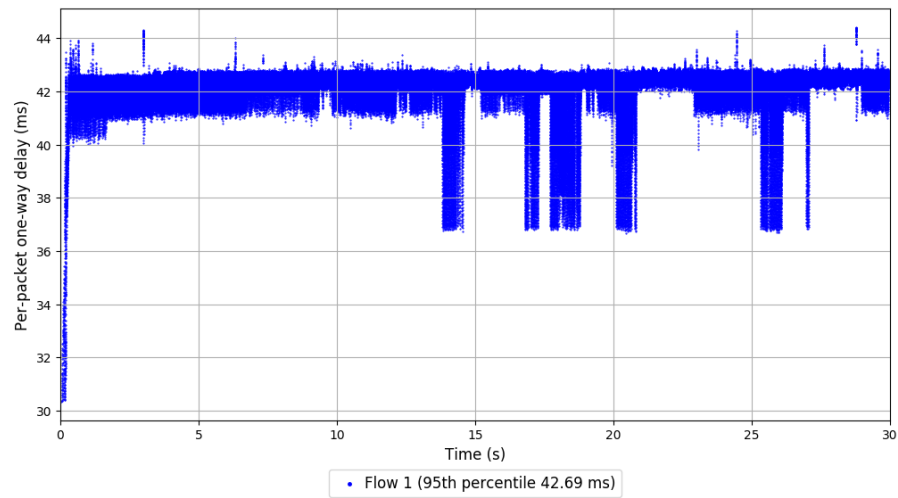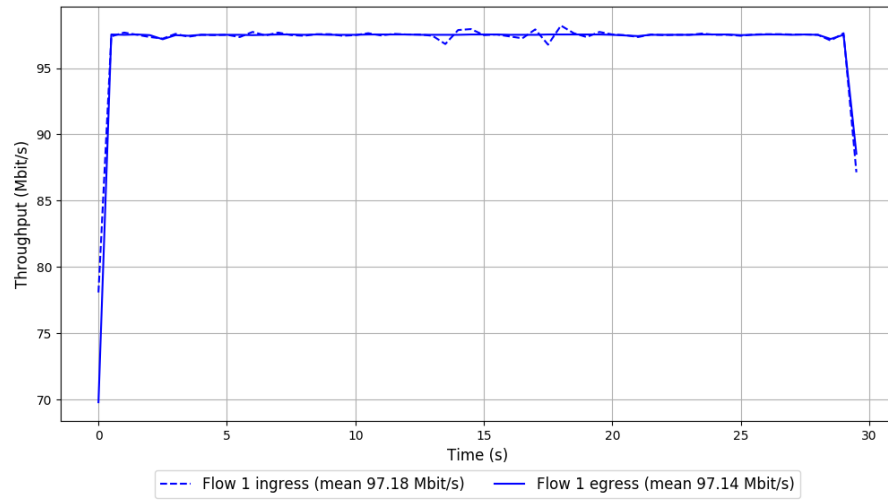
Run 4: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 97.09 Mbit/s) ----    Flow 1 egress (mean 97.07 Mbit/s) ——



• Flow 1 (95th percentile 44.99 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2018-01-25 07:00:22
End at: 2018-01-25 07:00:52
Local clock offset: 2.047 ms
Remote clock offset: -15.911 ms

Below is generated by plot.py at 2018-01-25 12:00:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 43.041 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 43.041 ms
Loss rate: 0.12%
```
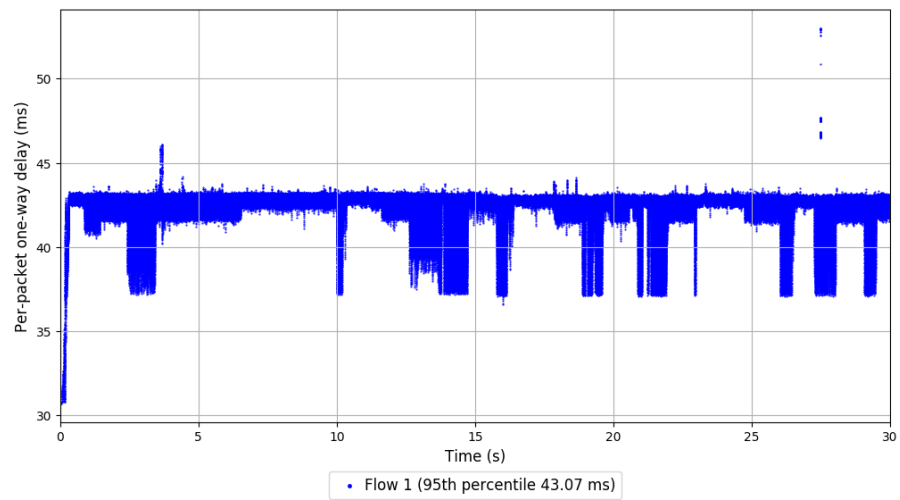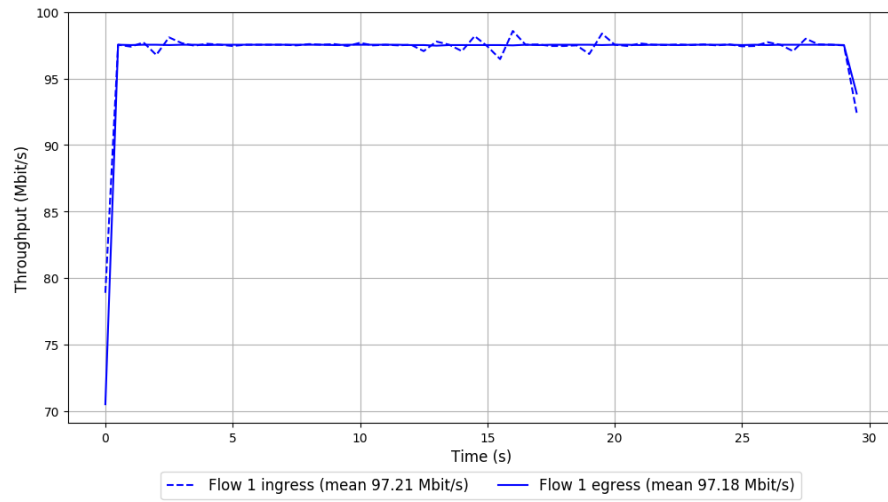
Run 5: Report of TCP Cubic — Data Link

```
Run 6: Statistics of TCP Cubic

Start at: 2018-01-25 07:19:05
End at: 2018-01-25 07:19:35
Local clock offset: 0.187 ms
Remote clock offset: -17.323 ms

Below is generated by plot.py at 2018-01-25 12:00:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 42.690 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.14 Mbit/s
95th percentile per-packet one-way delay: 42.690 ms
Loss rate: 0.12%
```
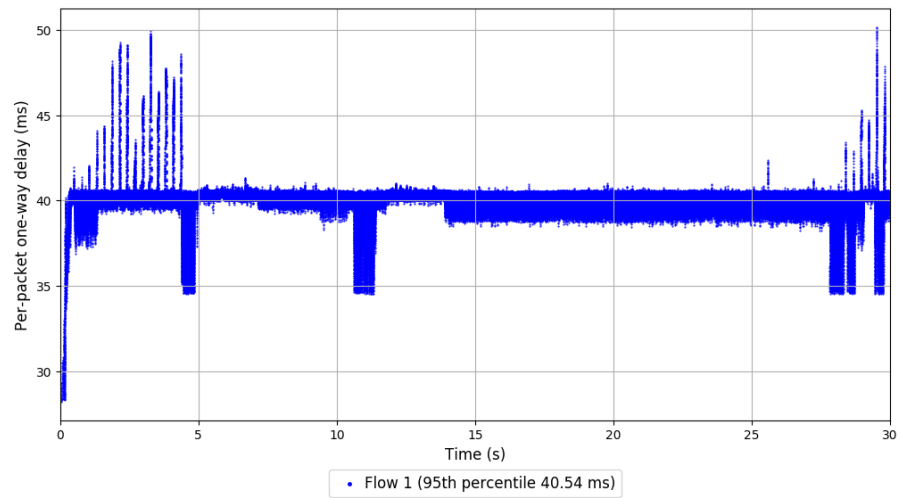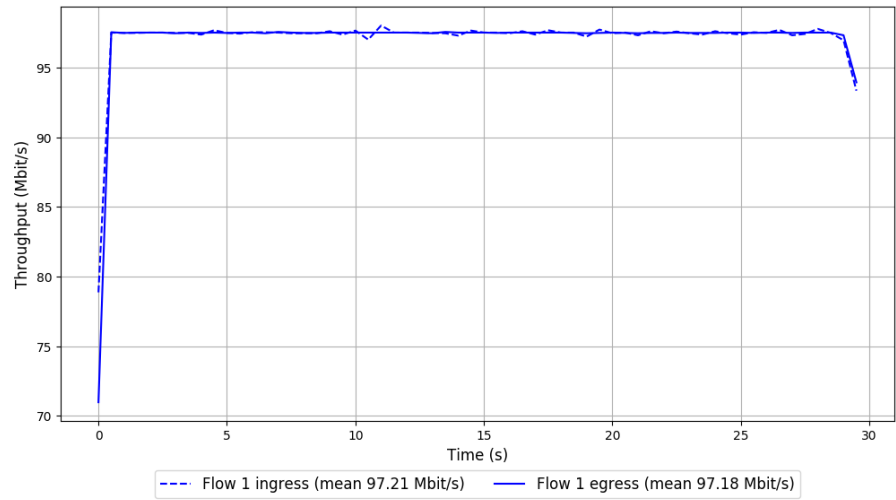
Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: 2018-01-25 07:37:50
End at: 2018-01-25 07:38:20
Local clock offset: 3.281 ms
Remote clock offset: -15.113 ms

Below is generated by plot.py at 2018-01-25 12:01:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 43.068 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 43.068 ms
Loss rate: 0.12%
```
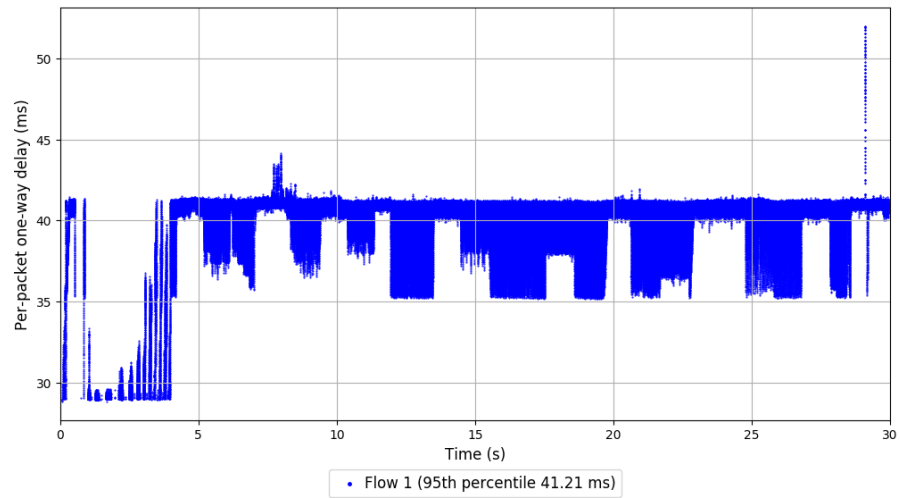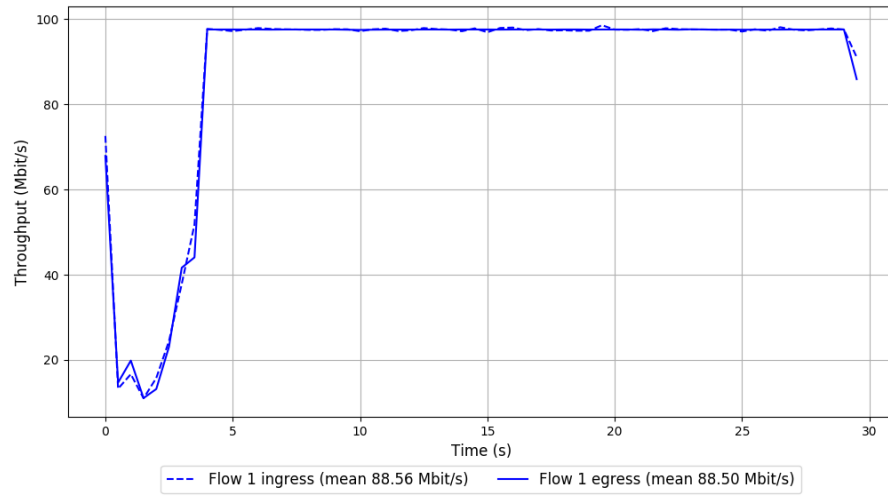
# Run 7: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 97.21 Mbit/s) --- Flow 1 egress (mean 97.18 Mbit/s)



Flow 1 (95th percentile 43.07 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-01-25 07:56:44
End at: 2018-01-25 07:57:14
Local clock offset: -0.103 ms
Remote clock offset: -15.424 ms

Below is generated by plot.py at 2018-01-25 12:01:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 40.538 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 40.538 ms
Loss rate: 0.12%
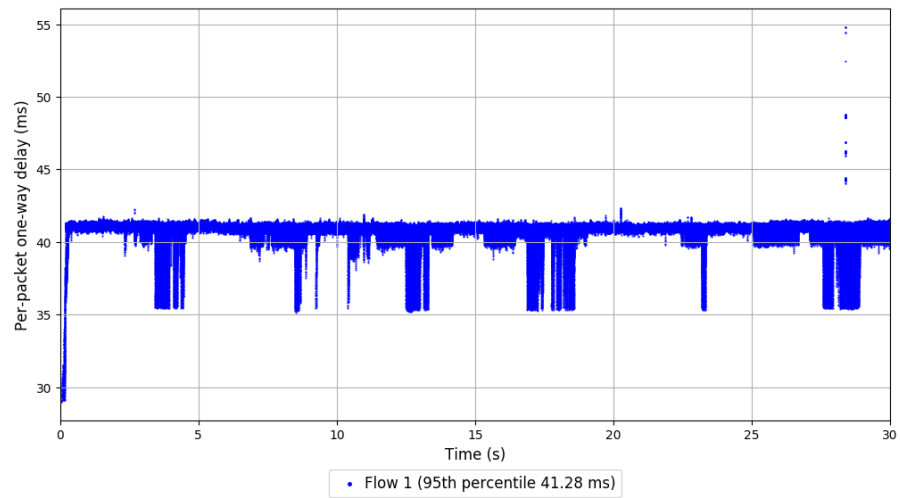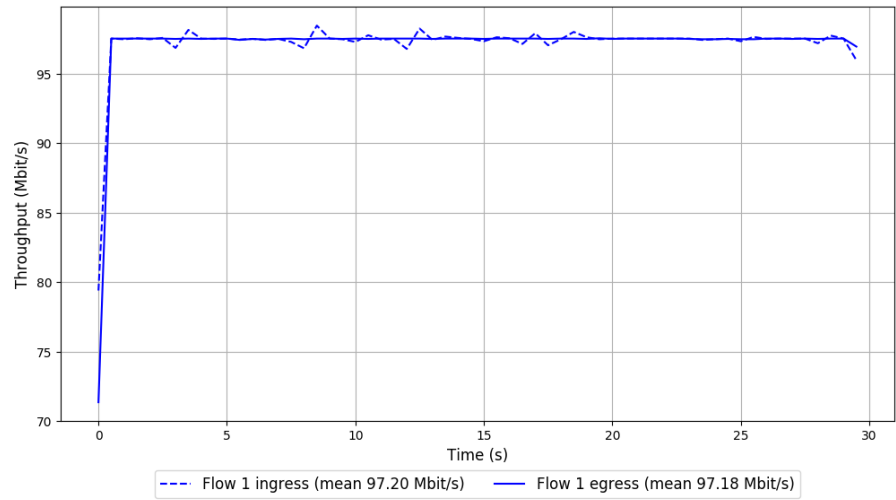```

Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.21 Mbit/s)   Flow 1 egress (mean 97.18 Mbit/s)

Flow 1 (95th percentile 40.54 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2018-01-25 08:15:17
End at: 2018-01-25 08:15:47
Local clock offset: 0.029 ms
Remote clock offset: -15.929 ms


# Below is generated by plot.py at 2018-01-25 12:01:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 41.212 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 88.50 Mbit/s
95th percentile per-packet one-way delay: 41.212 ms
Loss rate: 0.25%
```
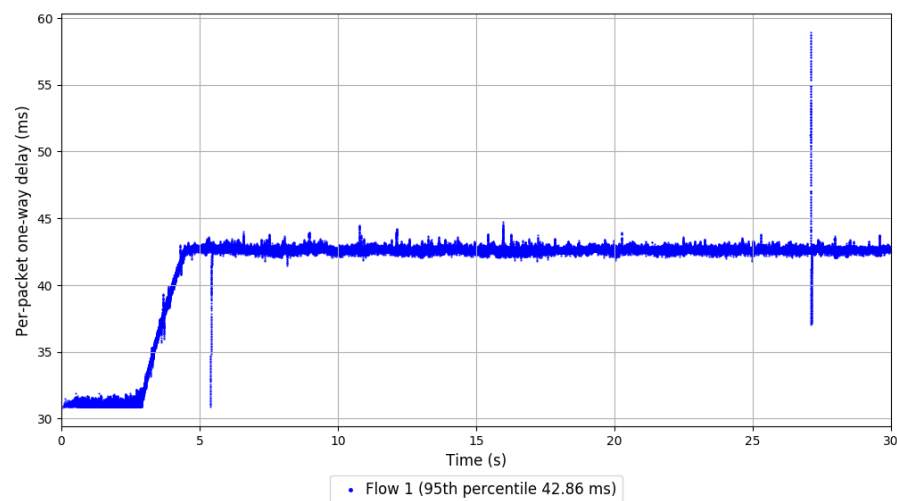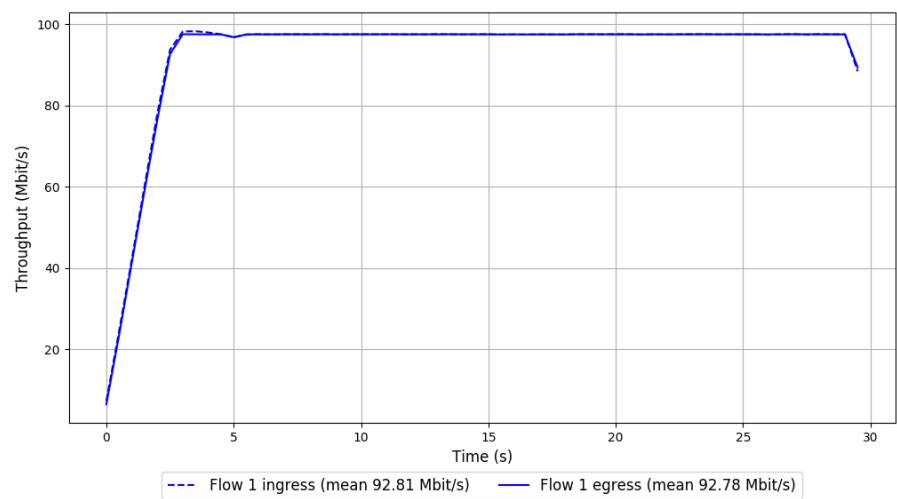
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 88.56 Mbit/s)   Flow 1 egress (mean 88.50 Mbit/s)

• Flow 1 (95th percentile 41.21 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-01-25 08:34:26
End at: 2018-01-25 08:34:56
Local clock offset: -0.982 ms
Remote clock offset: -16.373 ms


# Below is generated by plot.py at 2018-01-25 12:01:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 41.279 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 97.18 Mbit/s
95th percentile per-packet one-way delay: 41.279 ms
Loss rate: 0.12%
```
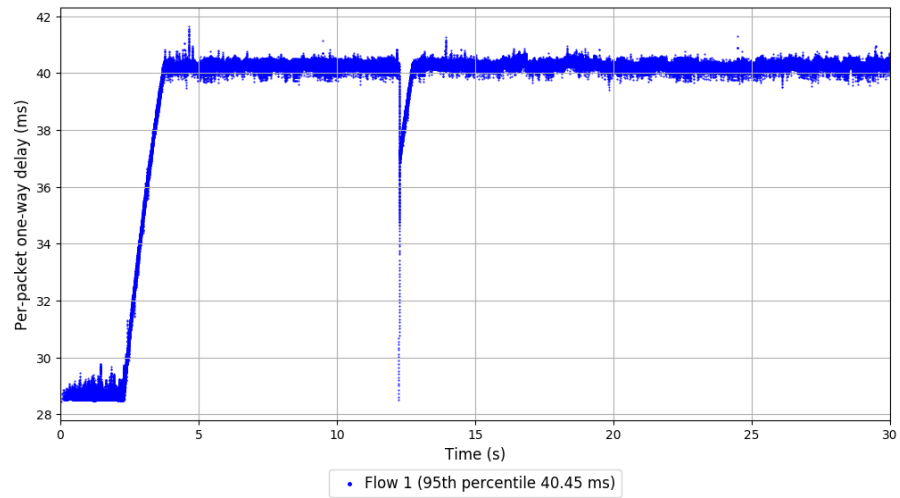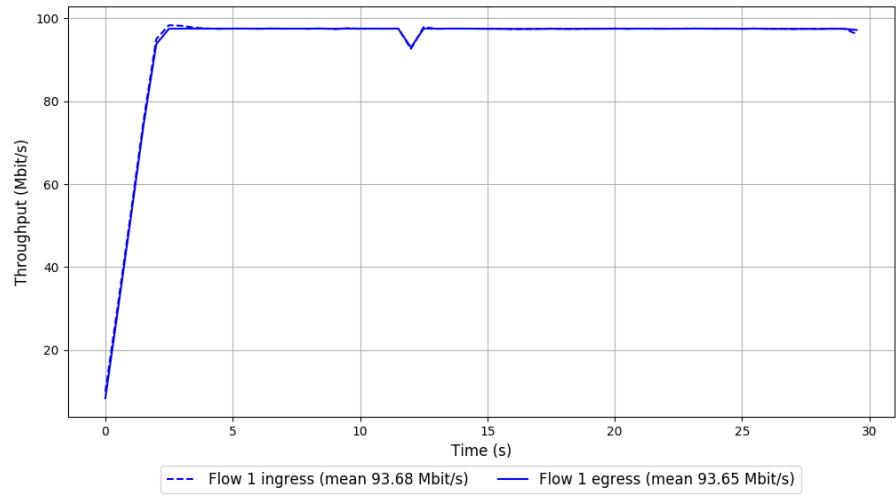
Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2018-01-25 05:59:13
End at: 2018-01-25 05:59:43
Local clock offset: 1.148 ms
Remote clock offset: -17.169 ms


# Below is generated by plot.py at 2018-01-25 12:01:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 42.862 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 92.78 Mbit/s
95th percentile per-packet one-way delay: 42.862 ms
Loss rate: 0.13%
```

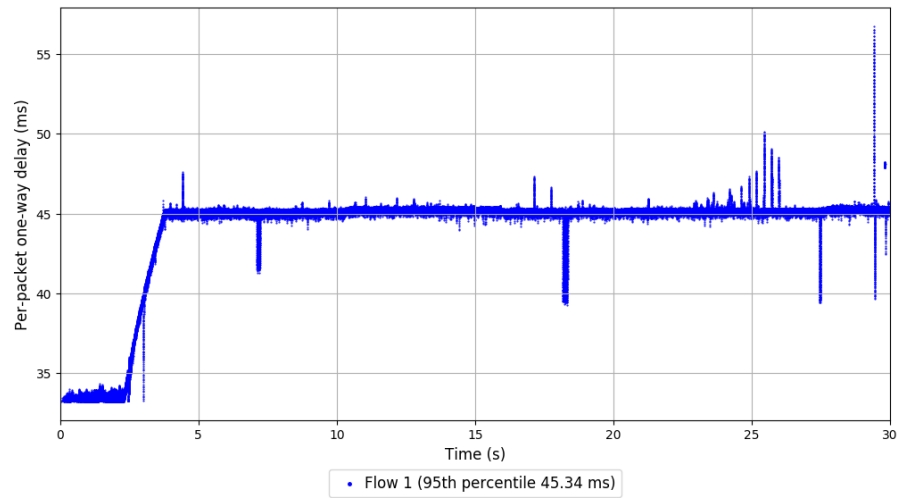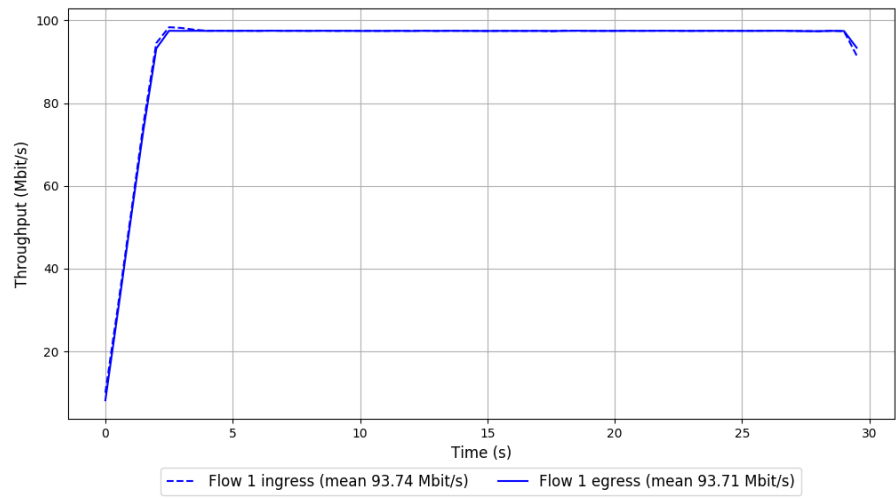Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 92.81 Mbit/s)   Flow 1 egress (mean 92.78 Mbit/s)

Flow 1 (95th percentile 42.86 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2018-01-25 06:18:04
End at: 2018-01-25 06:18:34
Local clock offset: 0.517 ms
Remote clock offset: -18.264 ms

# Below is generated by plot.py at 2018-01-25 12:01:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 40.449 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 40.449 ms
Loss rate: 0.12%
```

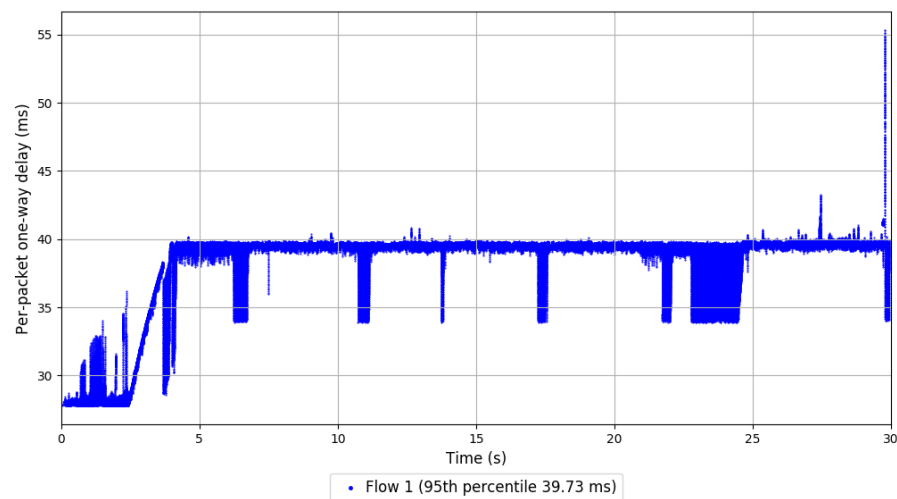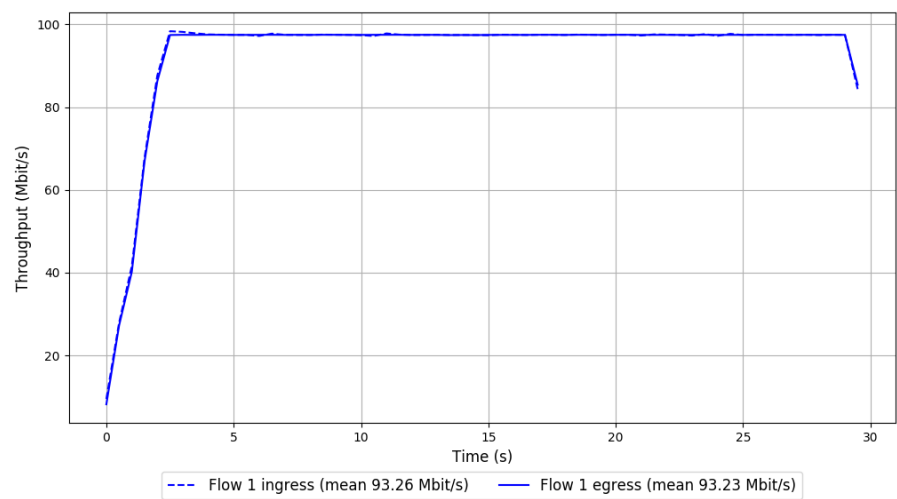Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 93.68 Mbit/s) — — — Flow 1 egress (mean 93.65 Mbit/s) ———

Flow 1 (95th percentile 40.45 ms)

47

```
Run 3: Statistics of LEDBAT

Start at: 2018-01-25 06:36:42
End at: 2018-01-25 06:37:12
Local clock offset: 2.646 ms
Remote clock offset: -19.115 ms

# Below is generated by plot.py at 2018-01-25 12:01:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 45.339 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 45.339 ms
Loss rate: 0.12%
```

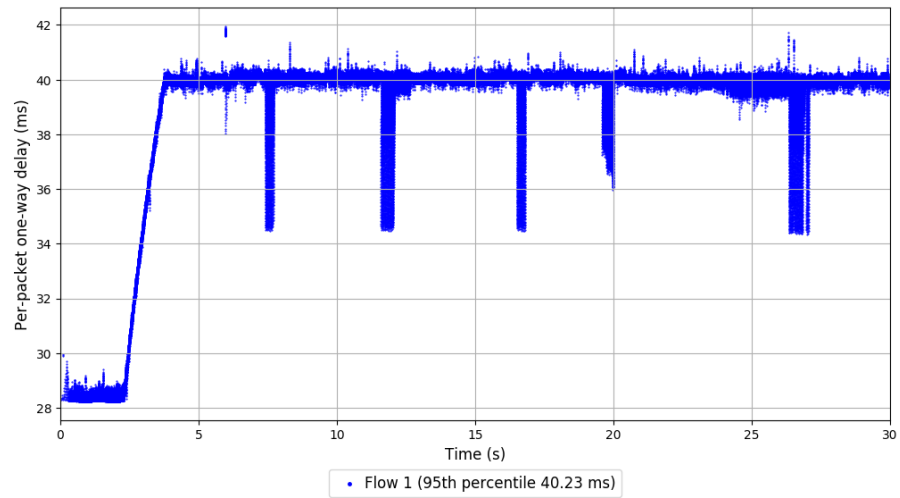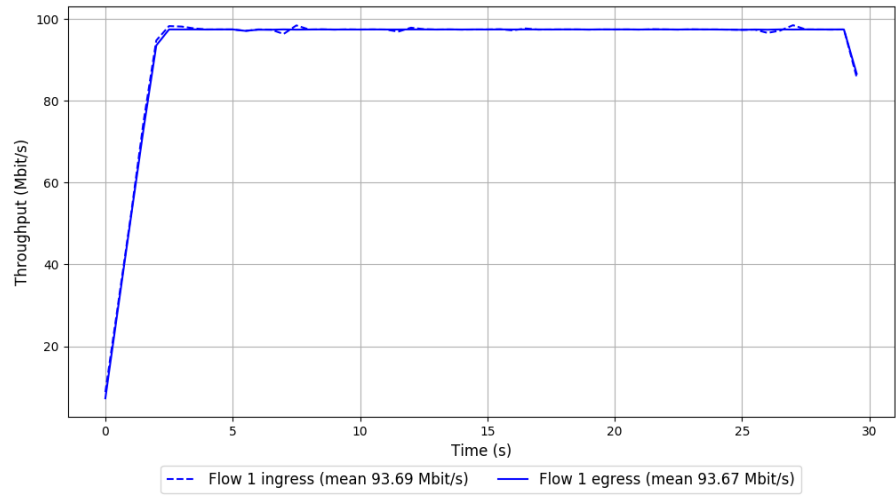Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2018-01-25 06:55:30
End at: 2018-01-25 06:56:00
Local clock offset: -0.66 ms
Remote clock offset: -15.841 ms

# Below is generated by plot.py at 2018-01-25 12:01:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 39.731 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.23 Mbit/s
95th percentile per-packet one-way delay: 39.731 ms
Loss rate: 0.12%
```

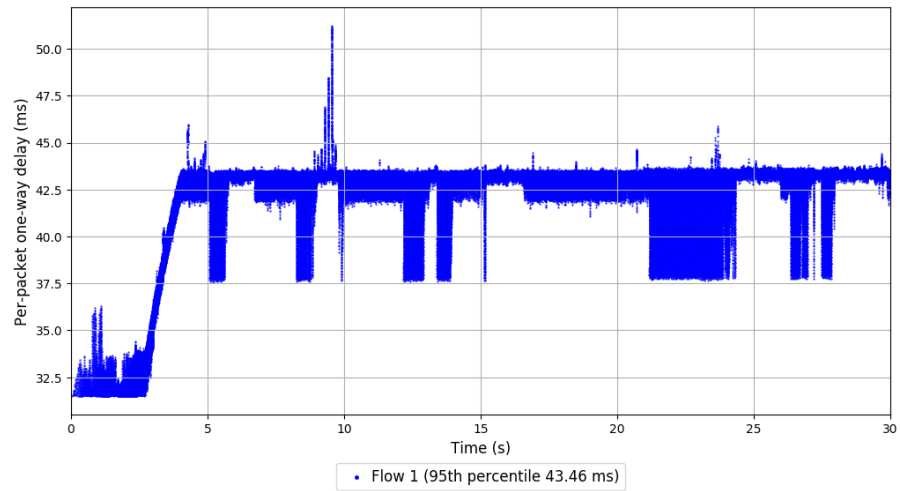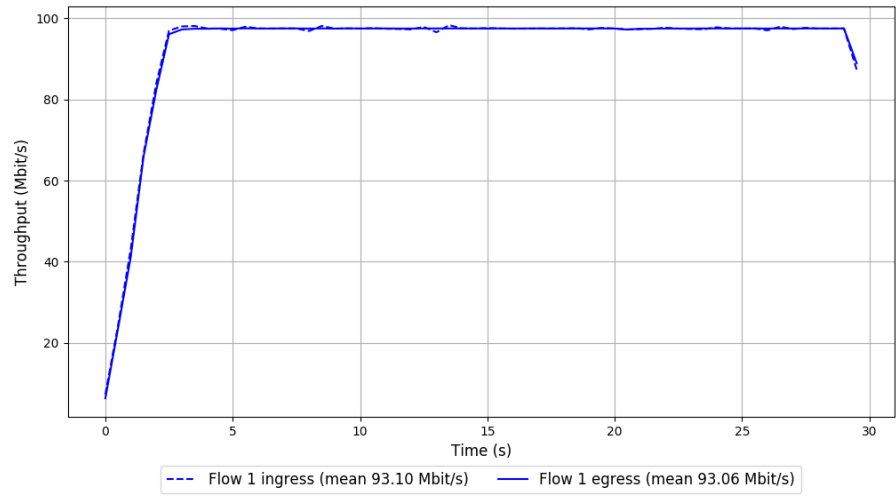# Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 93.26 Mbit/s) --- Flow 1 egress (mean 93.23 Mbit/s)

Flow 1 (95th percentile 39.73 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2018-01-25 07:14:18
End at: 2018-01-25 07:14:48
Local clock offset: -0.621 ms
Remote clock offset: -16.104 ms


# Below is generated by plot.py at 2018-01-25 12:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 40.234 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.67 Mbit/s
95th percentile per-packet one-way delay: 40.234 ms
Loss rate: 0.12%
```
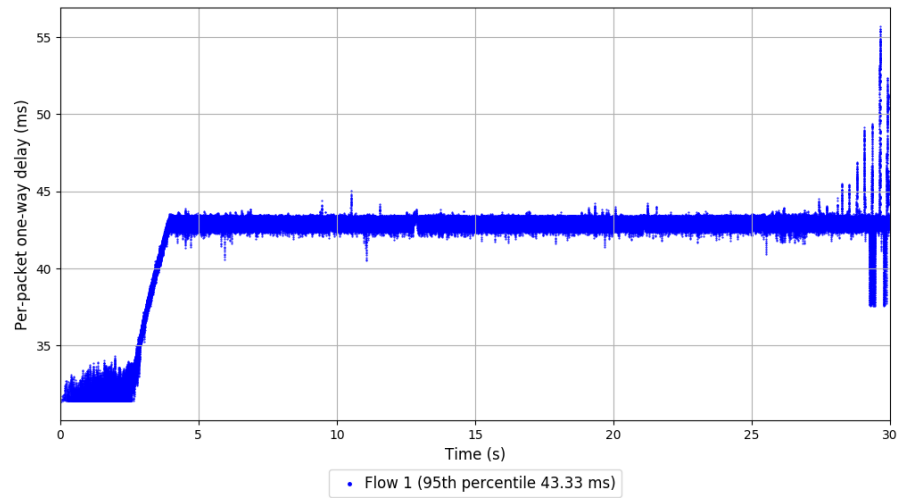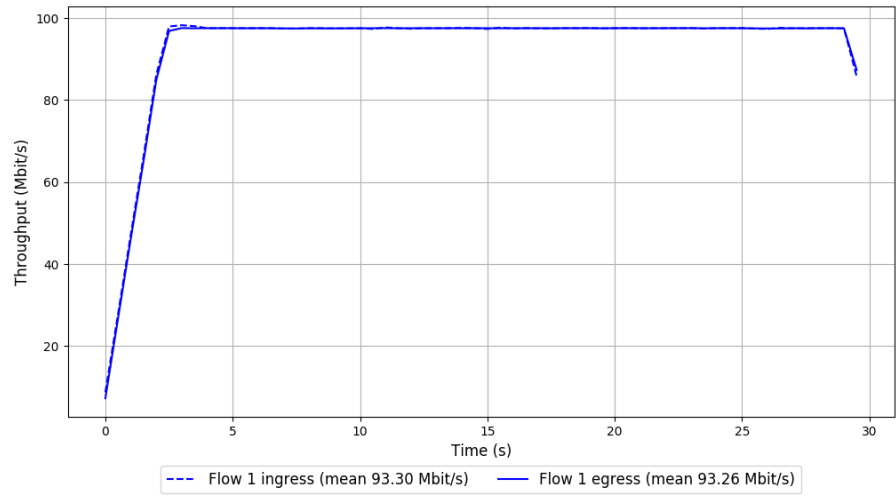
Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 93.69 Mbit/s) — — — Flow 1 egress (mean 93.67 Mbit/s)

• Flow 1 (95th percentile 40.23 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2018-01-25 07:33:05
End at: 2018-01-25 07:33:35
Local clock offset: 3.018 ms
Remote clock offset: -16.294 ms


# Below is generated by plot.py at 2018-01-25 12:03:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 43.461 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.06 Mbit/s
95th percentile per-packet one-way delay: 43.461 ms
Loss rate: 0.12%
```

Run 6: Report of LEDBAT — Data Link

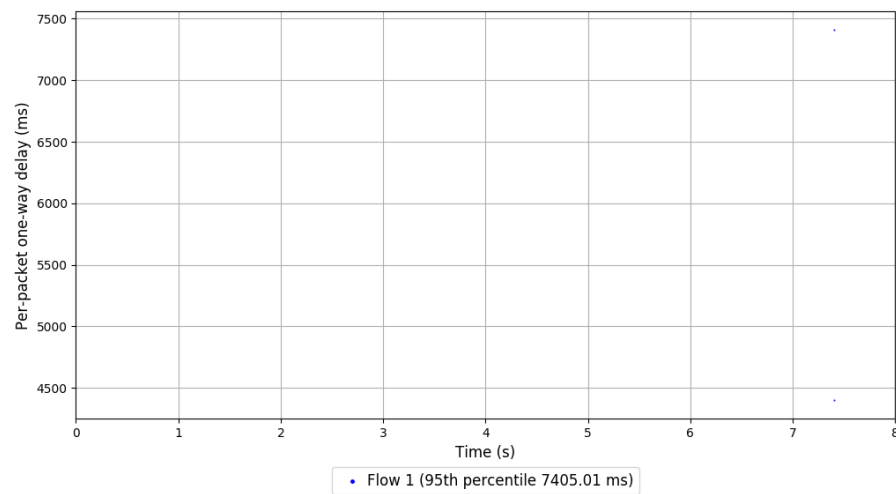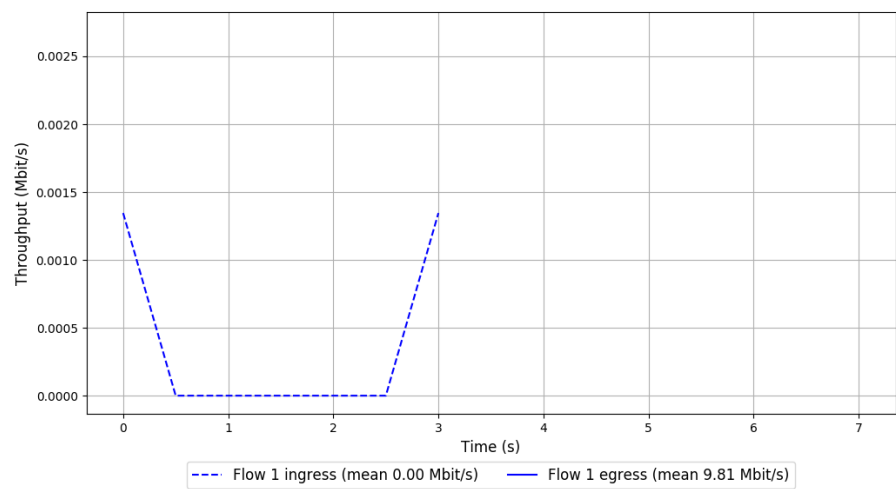Flow 1 ingress (mean 93.10 Mbit/s) ---- Flow 1 egress (mean 93.06 Mbit/s) ——
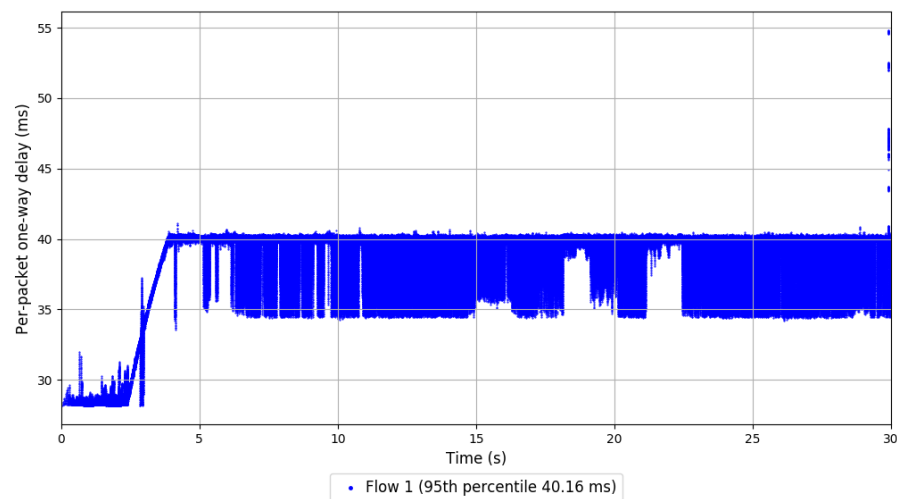

Flow 1 (95th percentile 43.46 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2018-01-25 07:51:57
End at: 2018-01-25 07:52:27
Local clock offset: -5.608 ms
Remote clock offset: -23.844 ms


# Below is generated by plot.py at 2018-01-25 12:03:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 43.334 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.26 Mbit/s
95th percentile per-packet one-way delay: 43.334 ms
Loss rate: 0.12%
```

Run 7: Report of LEDBAT — Data Link

```
Run 8: Statistics of LEDBAT

Start at: 2018-01-25 08:10:41
End at: 2018-01-25 08:11:11
Local clock offset: 0.72 ms
Remote clock offset: -17.692 ms
```
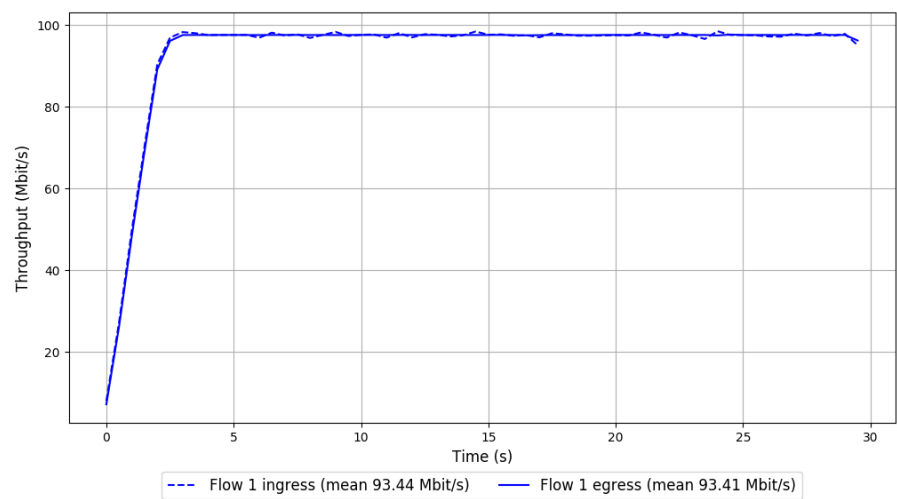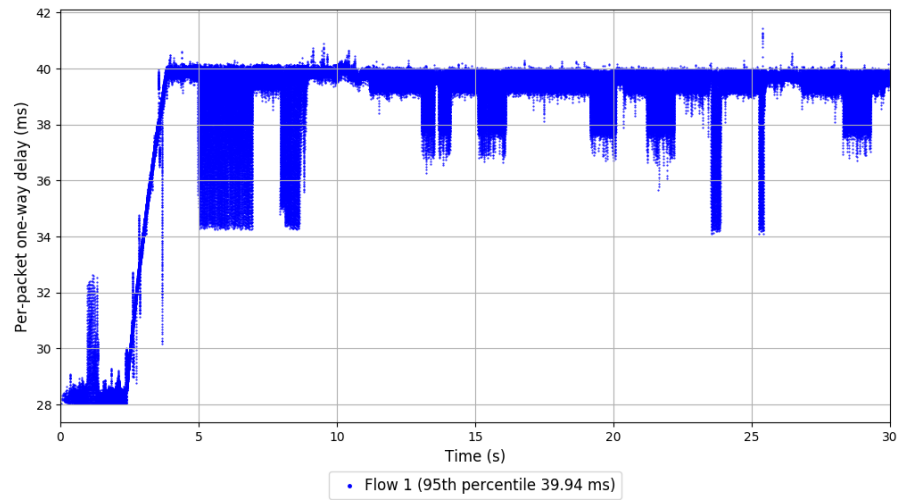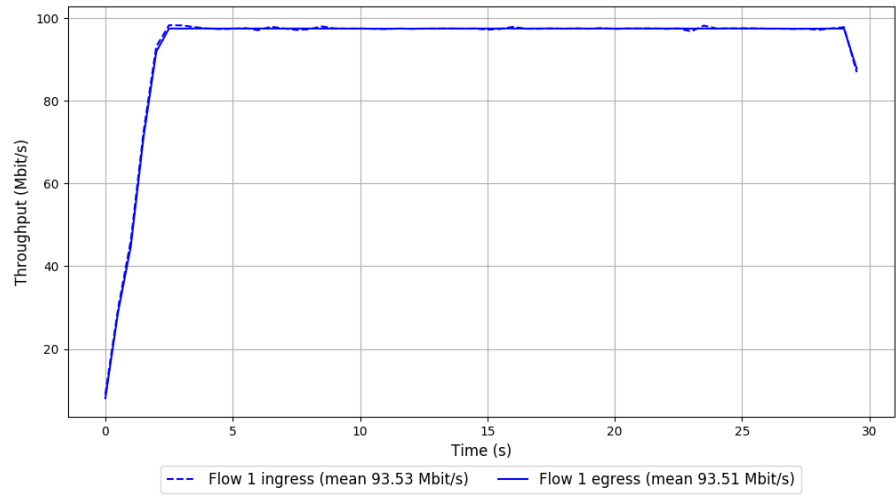
Run 8: Report of LEDBAT — Data Link

```
Run 9: Statistics of LEDBAT

Start at: 2018-01-25 08:29:43
End at: 2018-01-25 08:30:13
Local clock offset: -1.256 ms
Remote clock offset: -15.746 ms


# Below is generated by plot.py at 2018-01-25 12:03:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 40.165 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 93.41 Mbit/s
95th percentile per-packet one-way delay: 40.165 ms
Loss rate: 0.11%
```
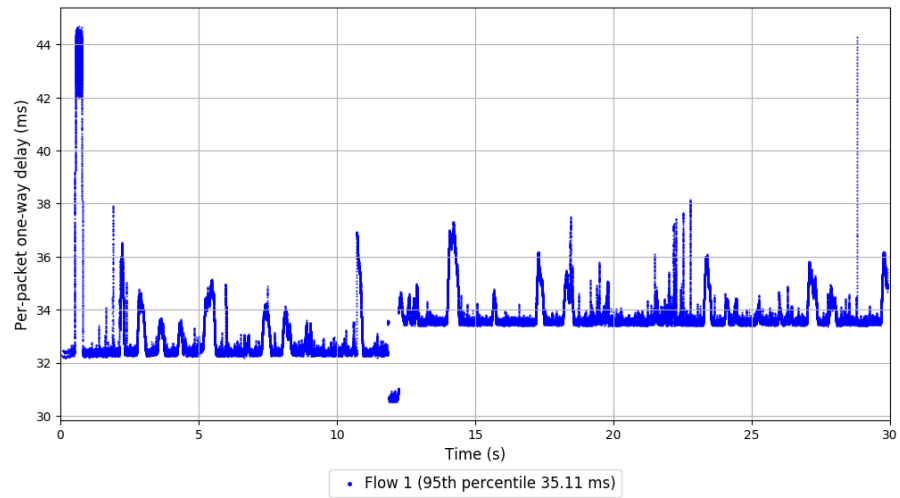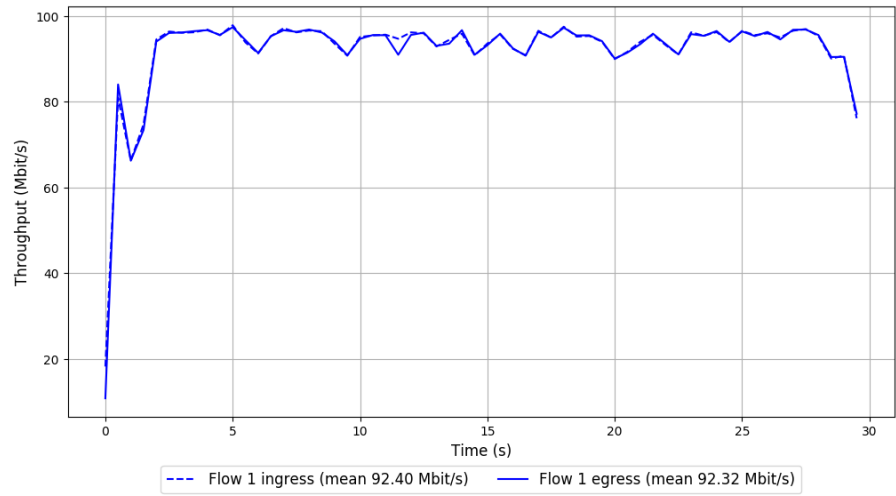
Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 93.44 Mbit/s) --- Flow 1 egress (mean 93.41 Mbit/s)

Flow 1 (95th percentile 40.16 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2018-01-25 08:48:20
End at: 2018-01-25 08:48:50
Local clock offset: -1.389 ms
Remote clock offset: -16.169 ms


# Below is generated by plot.py at 2018-01-25 12:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 39.938 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 93.51 Mbit/s
95th percentile per-packet one-way delay: 39.938 ms
Loss rate: 0.12%
```

Run 10: Report of LEDBAT — Data Link
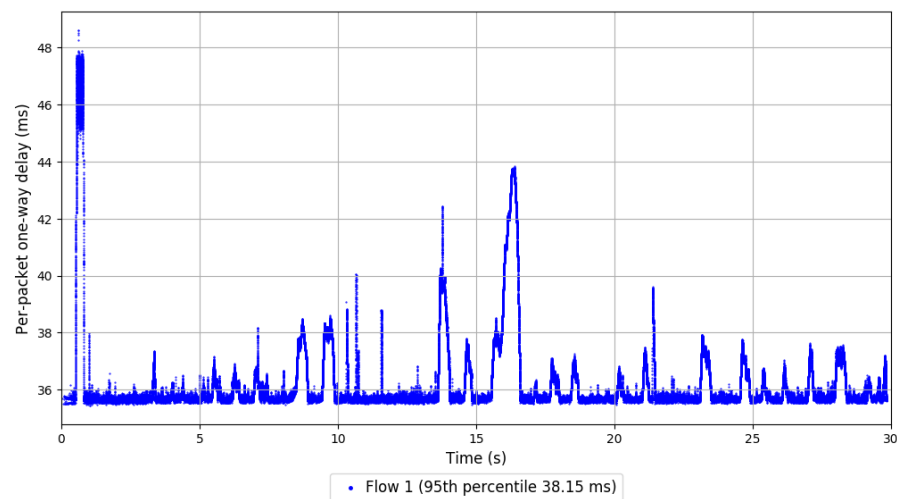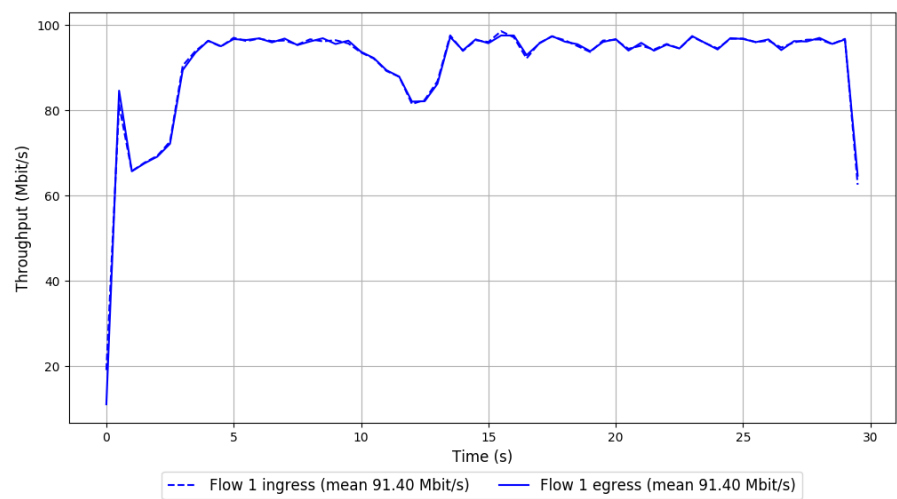
```
Run 1: Statistics of PCC

Start at: 2018-01-25 05:41:15
End at: 2018-01-25 05:41:45
Local clock offset: 0.341 ms
Remote clock offset: -20.763 ms


# Below is generated by plot.py at 2018-01-25 12:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 35.112 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 92.32 Mbit/s
95th percentile per-packet one-way delay: 35.112 ms
Loss rate: 0.17%
```
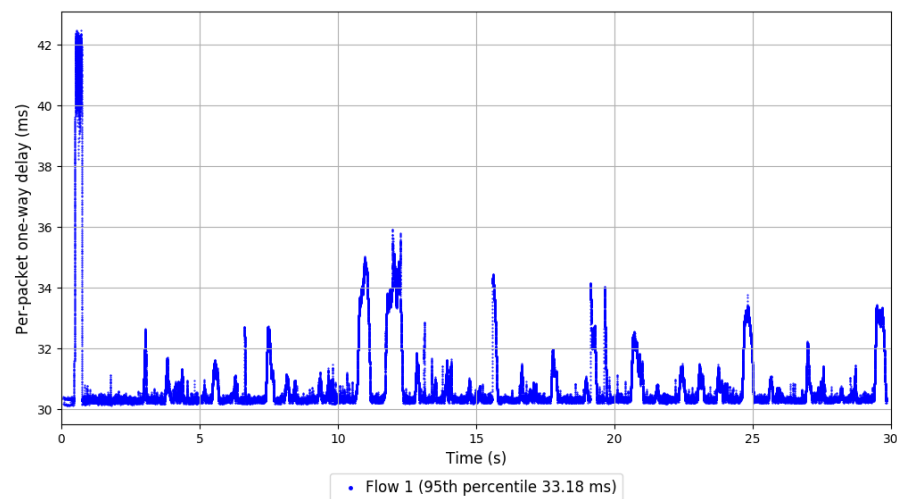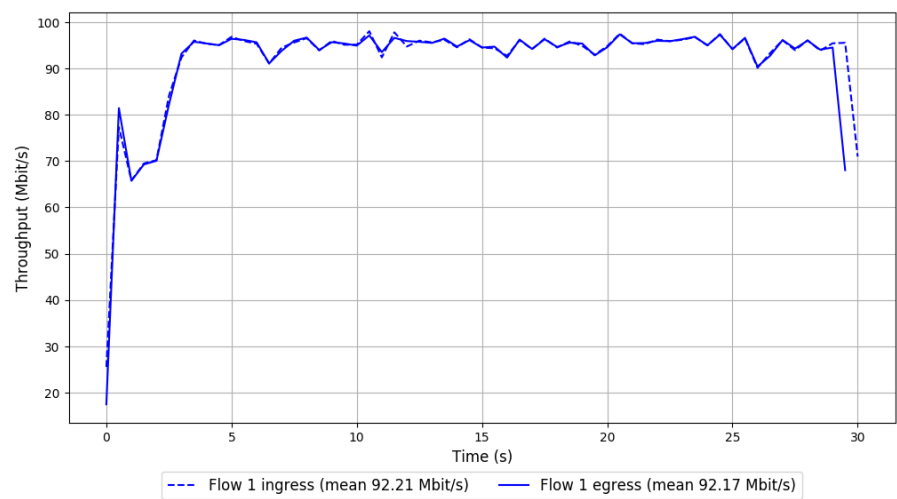
Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 92.40 Mbit/s) Flow 1 egress (mean 92.32 Mbit/s)

Flow 1 (95th percentile 35.11 ms)

```
Run 2: Statistics of PCC

Start at: 2018-01-25 06:00:27
End at: 2018-01-25 06:00:57
Local clock offset: 1.849 ms
Remote clock offset: -21.211 ms


# Below is generated by plot.py at 2018-01-25 12:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 38.147 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.40 Mbit/s
95th percentile per-packet one-way delay: 38.147 ms
Loss rate: 0.09%
```
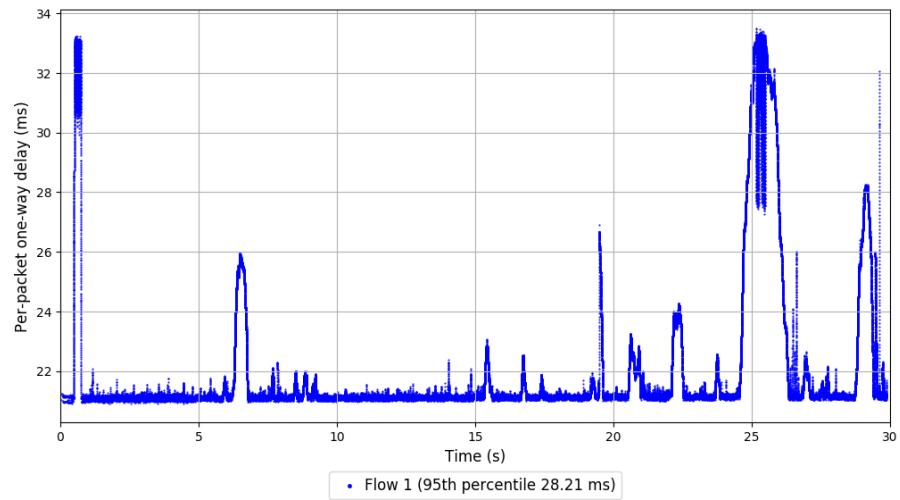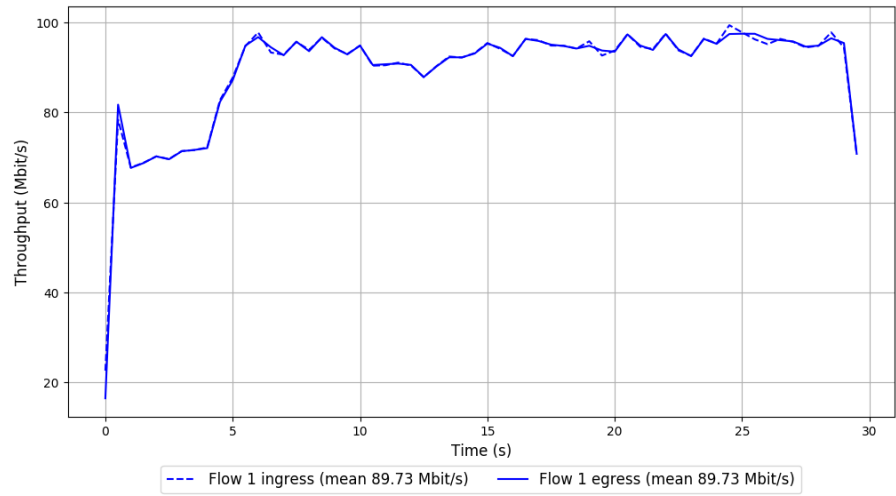
Run 2: Report of PCC — Data Link

Flow 1 ingress (mean 91.40 Mbit/s)   Flow 1 egress (mean 91.40 Mbit/s)

Flow 1 (95th percentile 38.15 ms)

```
Run 3: Statistics of PCC

Start at: 2018-01-25 06:19:15
End at: 2018-01-25 06:19:45
Local clock offset: 0.687 ms
Remote clock offset: -19.782 ms


# Below is generated by plot.py at 2018-01-25 12:03:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 33.179 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 92.17 Mbit/s
95th percentile per-packet one-way delay: 33.179 ms
Loss rate: 1.87%
```
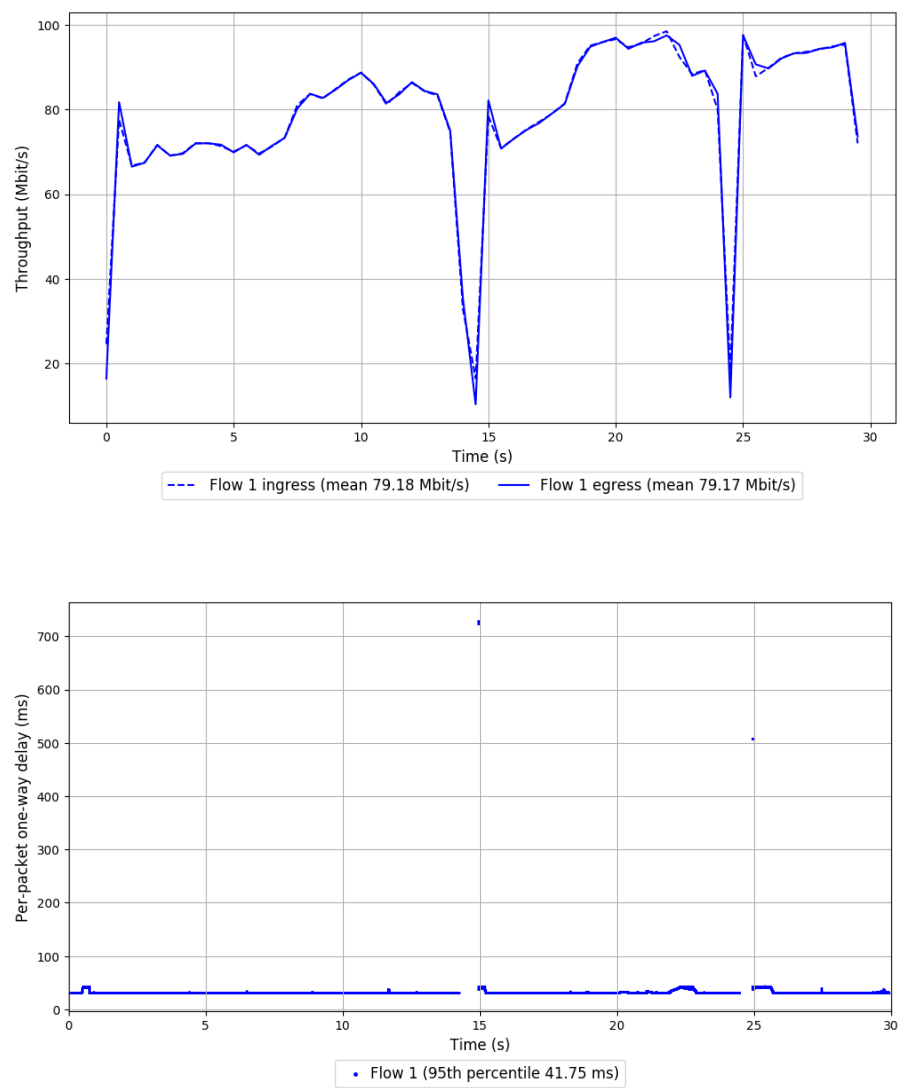
Run 3: Report of PCC — Data Link

Flow 1 ingress (mean 92.21 Mbit/s) Flow 1 egress (mean 92.17 Mbit/s)

Flow 1 (95th percentile 33.18 ms)

```
Run 4: Statistics of PCC

Start at: 2018-01-25 06:37:53
End at: 2018-01-25 06:38:23
Local clock offset: -9.288 ms
Remote clock offset: -18.763 ms


# Below is generated by plot.py at 2018-01-25 12:04:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.73 Mbit/s
95th percentile per-packet one-way delay: 28.206 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 89.73 Mbit/s
95th percentile per-packet one-way delay: 28.206 ms
Loss rate: 0.08%
```
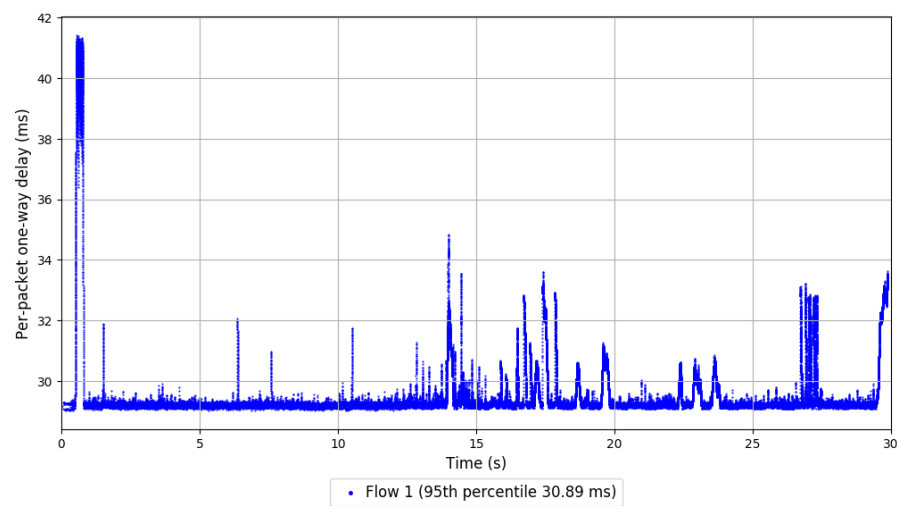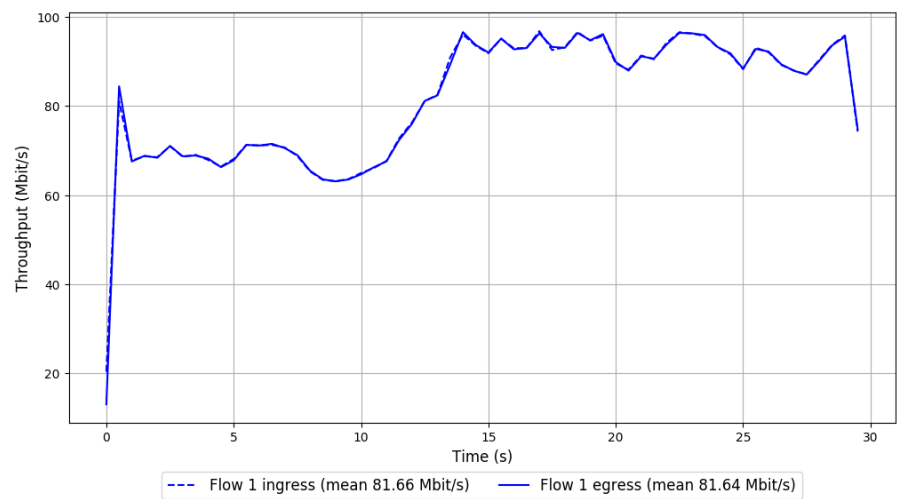
Run 4: Report of PCC — Data Link

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

Flow 1 (95th percentile 28.21 ms)

71

```
Run 5: Statistics of PCC

Start at: 2018-01-25 06:56:45
End at: 2018-01-25 06:57:15
Local clock offset: 2.032 ms
Remote clock offset: -16.766 ms


# Below is generated by plot.py at 2018-01-25 12:04:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.17 Mbit/s
95th percentile per-packet one-way delay: 41.748 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 79.17 Mbit/s
95th percentile per-packet one-way delay: 41.748 ms
Loss rate: 0.09%
```
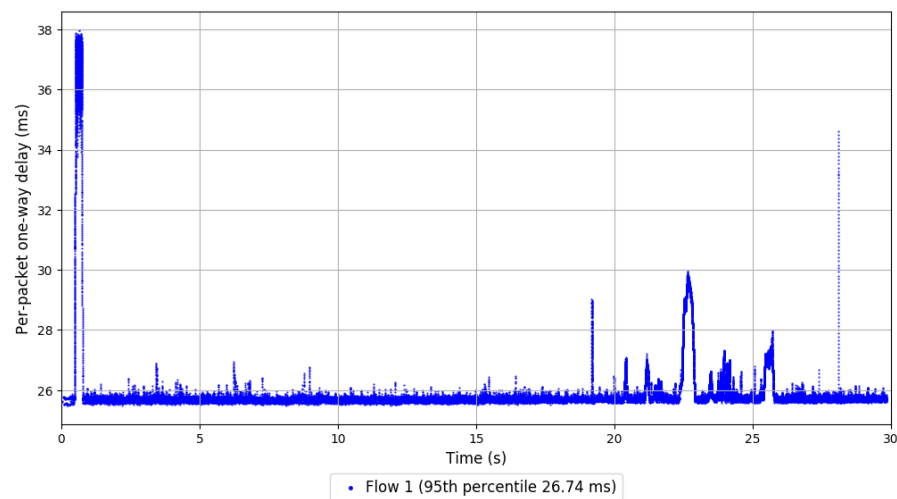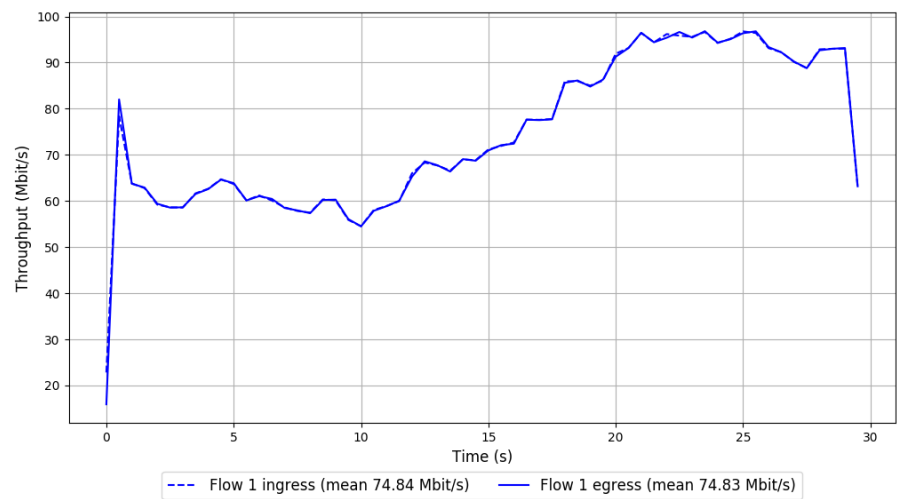
Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 79.18 Mbit/s)   Flow 1 egress (mean 79.17 Mbit/s)

• Flow 1 (95th percentile 41.75 ms)

```
Run 6: Statistics of PCC

Start at: 2018-01-25 07:15:31
End at: 2018-01-25 07:16:01
Local clock offset: -0.794 ms
Remote clock offset: -17.24 ms


# Below is generated by plot.py at 2018-01-25 12:04:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.64 Mbit/s
95th percentile per-packet one-way delay: 30.893 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 81.64 Mbit/s
95th percentile per-packet one-way delay: 30.893 ms
Loss rate: 0.11%
```
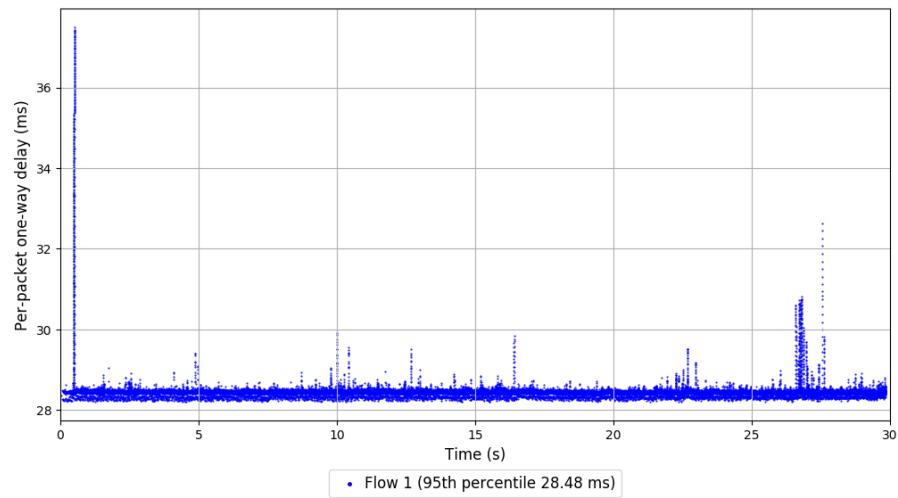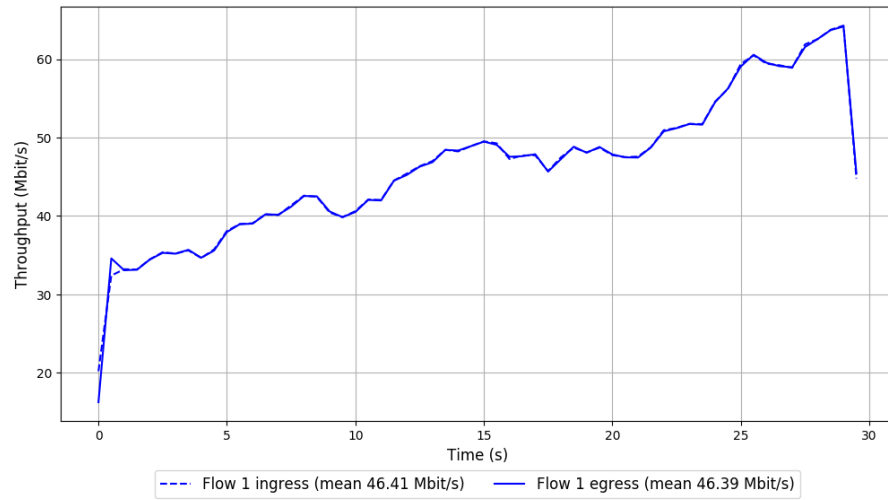
Run 6: Report of PCC — Data Link

```
Run 7: Statistics of PCC

Start at: 2018-01-25 07:34:19
End at: 2018-01-25 07:34:49
Local clock offset: -2.247 ms
Remote clock offset: -15.745 ms


# Below is generated by plot.py at 2018-01-25 12:04:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.83 Mbit/s
95th percentile per-packet one-way delay: 26.736 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 74.83 Mbit/s
95th percentile per-packet one-way delay: 26.736 ms
Loss rate: 0.10%
```
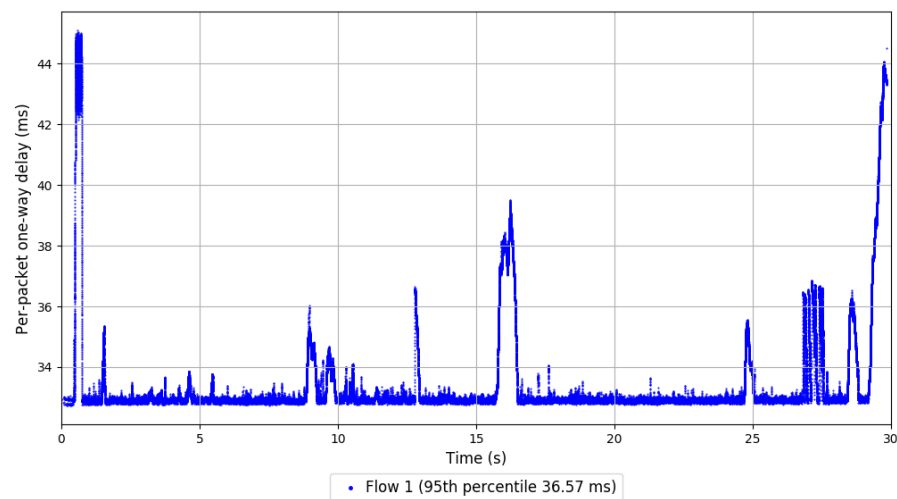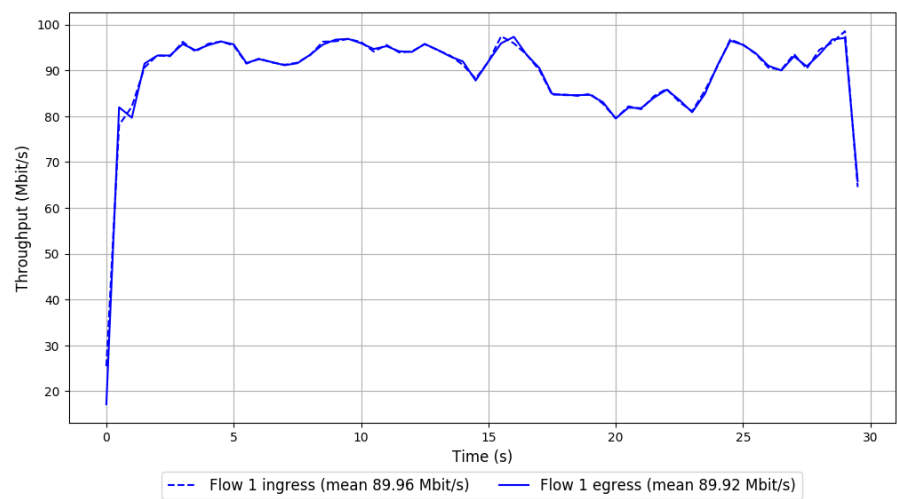
Run 7: Report of PCC — Data Link

```
Run 8: Statistics of PCC

Start at: 2018-01-25 07:53:12
End at: 2018-01-25 07:53:42
Local clock offset: 1.079 ms
Remote clock offset: -14.173 ms


# Below is generated by plot.py at 2018-01-25 12:04:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 28.478 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 46.39 Mbit/s
95th percentile per-packet one-way delay: 28.478 ms
Loss rate: 0.11%
```

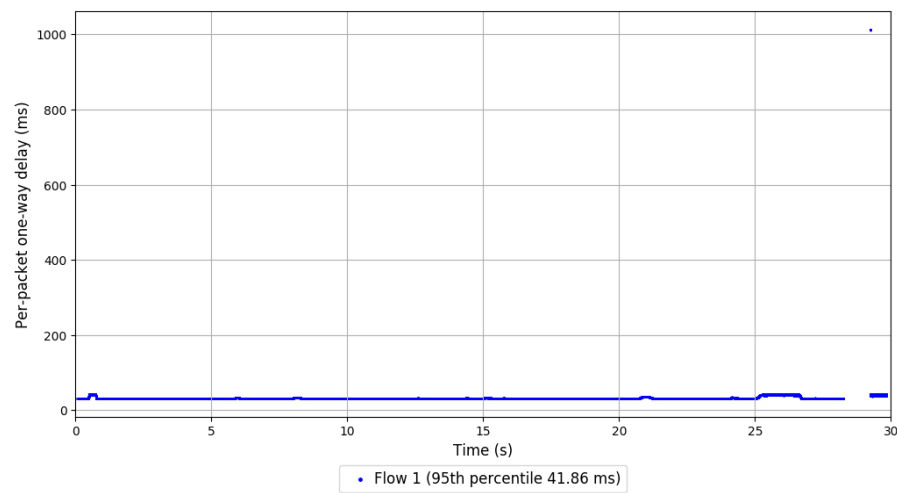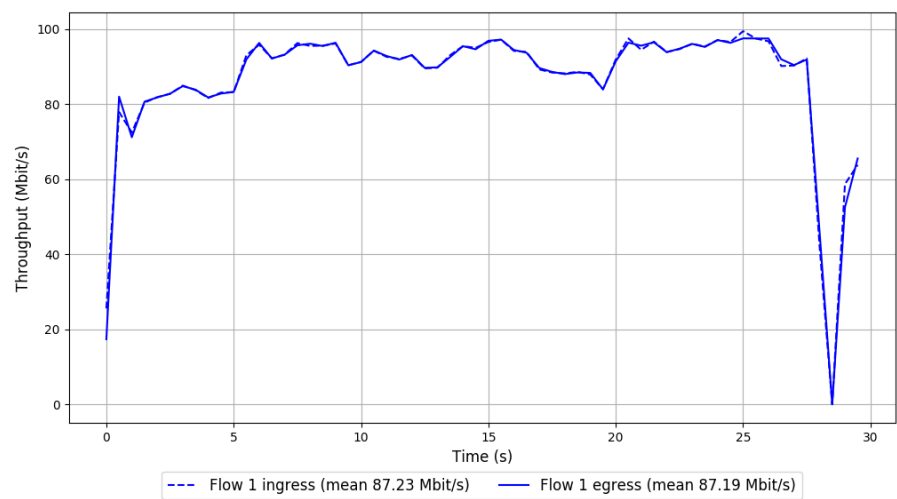Run 8: Report of PCC — Data Link

```
Run 9: Statistics of PCC

Start at: 2018-01-25 08:11:45
End at: 2018-01-25 08:12:15
Local clock offset: 2.25 ms
Remote clock offset: -17.991 ms


# Below is generated by plot.py at 2018-01-25 12:04:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.92 Mbit/s
95th percentile per-packet one-way delay: 36.568 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 89.92 Mbit/s
95th percentile per-packet one-way delay: 36.568 ms
Loss rate: 0.12%
```
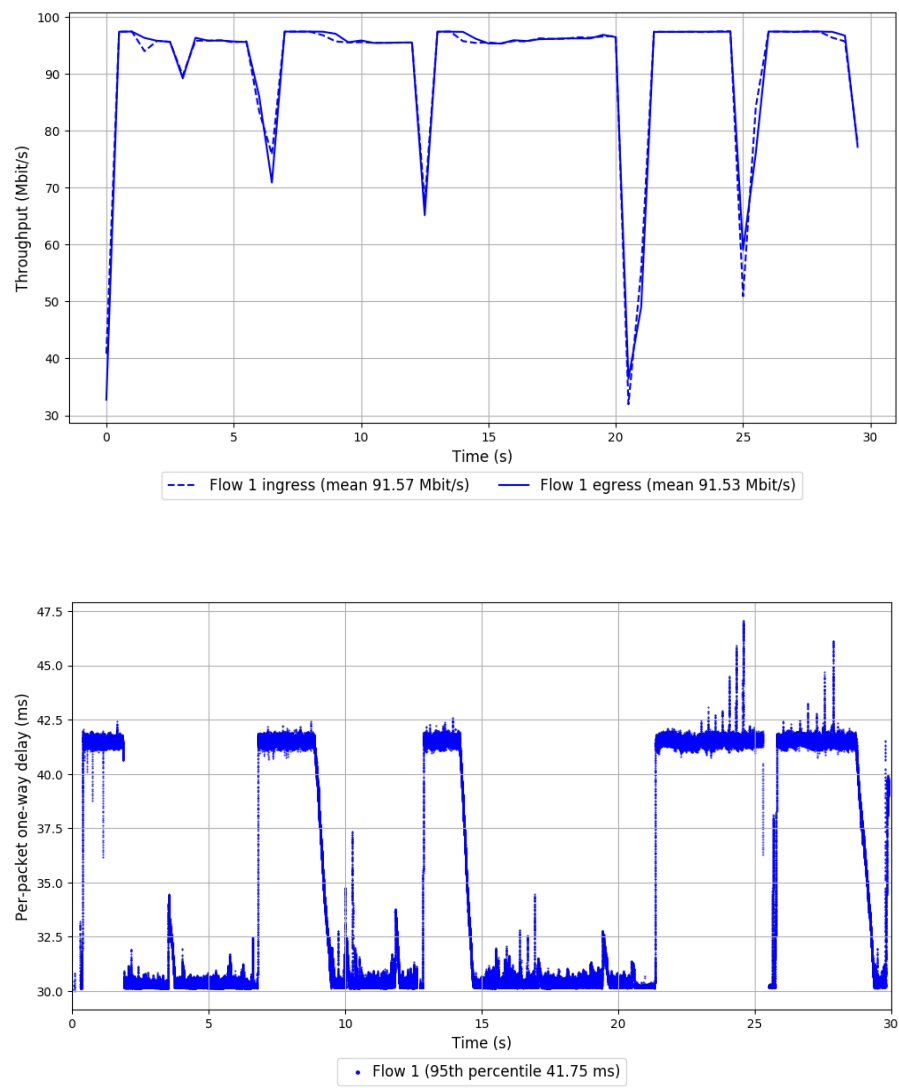
Run 9: Report of PCC — Data Link

Flow 1 ingress (mean 89.96 Mbit/s) Flow 1 egress (mean 89.92 Mbit/s)

Flow 1 (95th percentile 36.57 ms)

```
Run 10: Statistics of PCC

Start at: 2018-01-25 08:30:55
End at: 2018-01-25 08:31:25
Local clock offset: 1.605 ms
Remote clock offset: -16.049 ms


# Below is generated by plot.py at 2018-01-25 12:04:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.19 Mbit/s
95th percentile per-packet one-way delay: 41.858 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 87.19 Mbit/s
95th percentile per-packet one-way delay: 41.858 ms
Loss rate: 0.13%
```
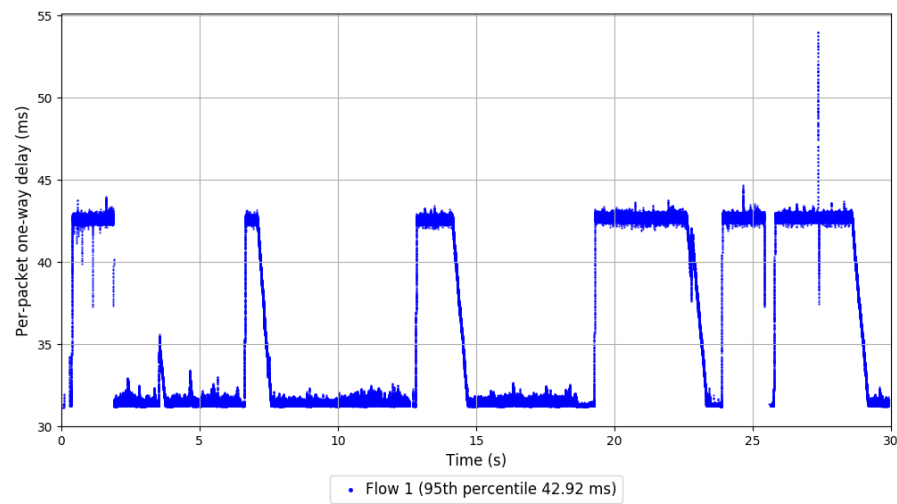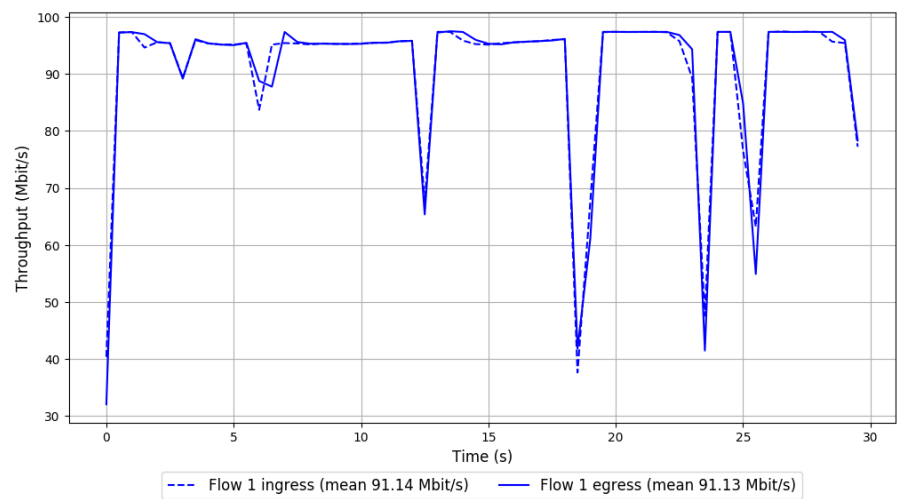
Run 10: Report of PCC — Data Link

Flow 1 ingress (mean 87.23 Mbit/s)   Flow 1 egress (mean 87.19 Mbit/s)

Flow 1 (95th percentile 41.86 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-25 05:42:26
End at: 2018-01-25 05:42:56
Local clock offset: -1.554 ms
Remote clock offset: -19.284 ms


# Below is generated by plot.py at 2018-01-25 12:04:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 41.752 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 91.53 Mbit/s
95th percentile per-packet one-way delay: 41.752 ms
Loss rate: 0.12%
```
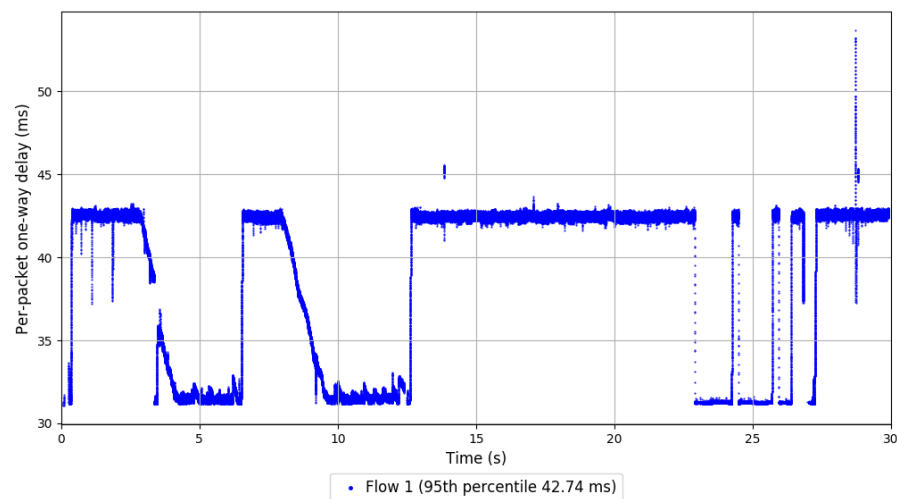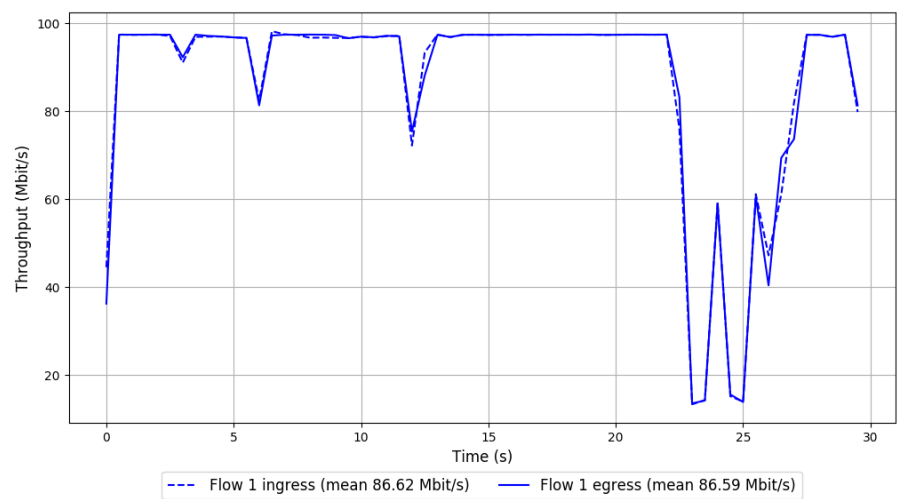
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-25 06:01:37
End at: 2018-01-25 06:02:07
Local clock offset: -0.159 ms
Remote clock offset: -18.841 ms


# Below is generated by plot.py at 2018-01-25 12:05:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 42.924 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 42.924 ms
Loss rate: 0.09%
```
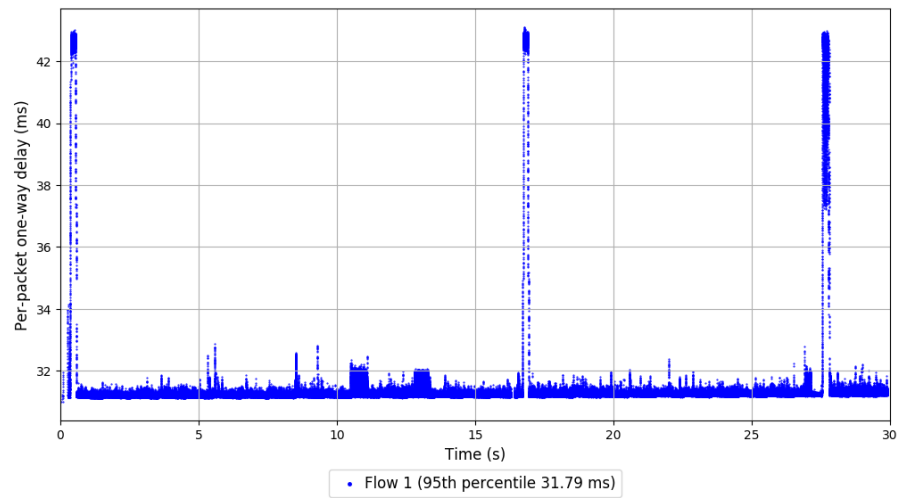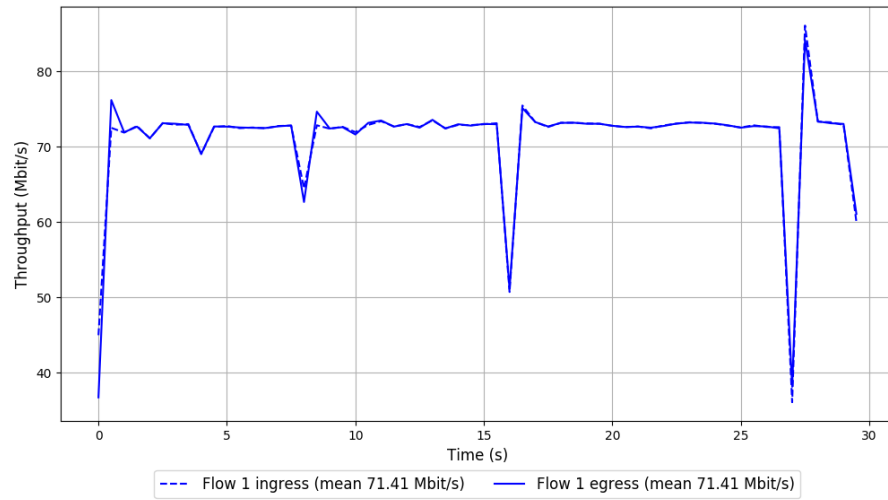
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 91.14 Mbit/s) —— Flow 1 egress (mean 91.13 Mbit/s)

• Flow 1 (95th percentile 42.92 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-25 06:20:23
End at: 2018-01-25 06:20:53
Local clock offset: 3.334 ms
Remote clock offset: -17.989 ms


# Below is generated by plot.py at 2018-01-25 12:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.59 Mbit/s
95th percentile per-packet one-way delay: 42.743 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 86.59 Mbit/s
95th percentile per-packet one-way delay: 42.743 ms
Loss rate: 0.13%
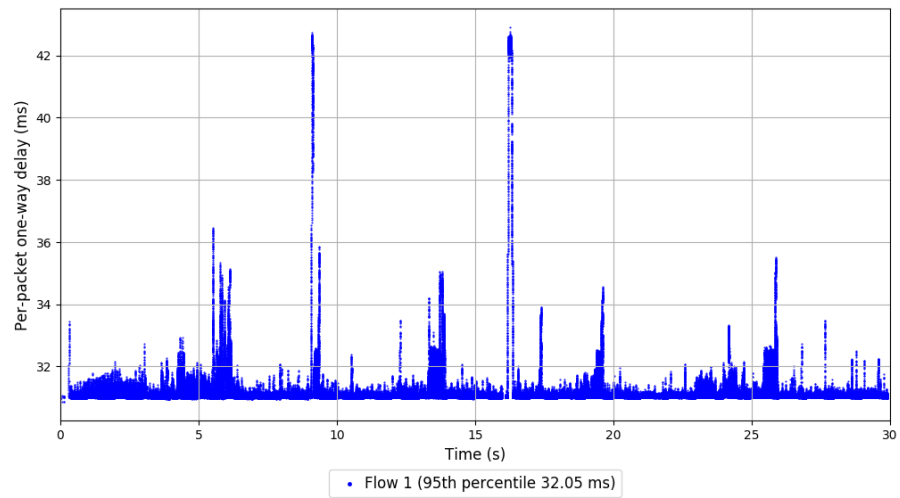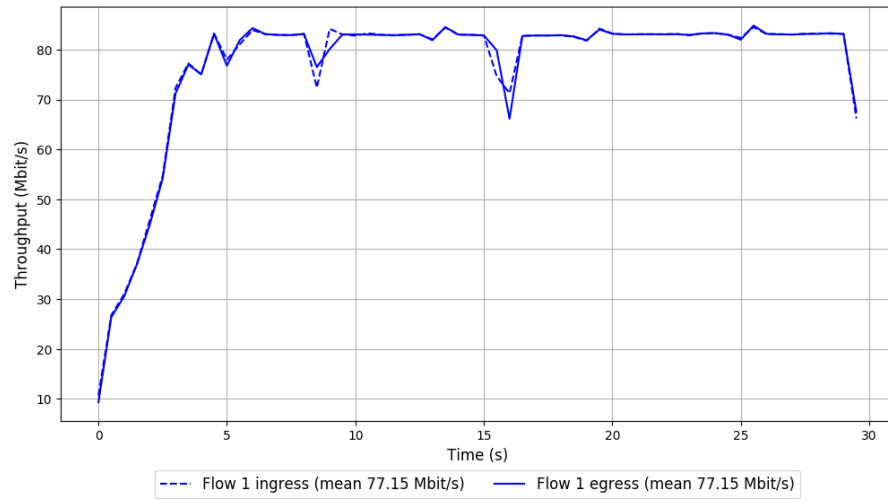```

Run 3: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 86.62 Mbit/s) --- Flow 1 egress (mean 86.59 Mbit/s)



Flow 1 (95th percentile 42.74 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-25 06:39:01
End at: 2018-01-25 06:39:31
Local clock offset: 2.73 ms
Remote clock offset: -16.657 ms

Below is generated by plot.py at 2018-01-25 12:05:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.41 Mbit/s
95th percentile per-packet one-way delay: 31.790 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 71.41 Mbit/s
95th percentile per-packet one-way delay: 31.790 ms
Loss rate: 0.08%
```
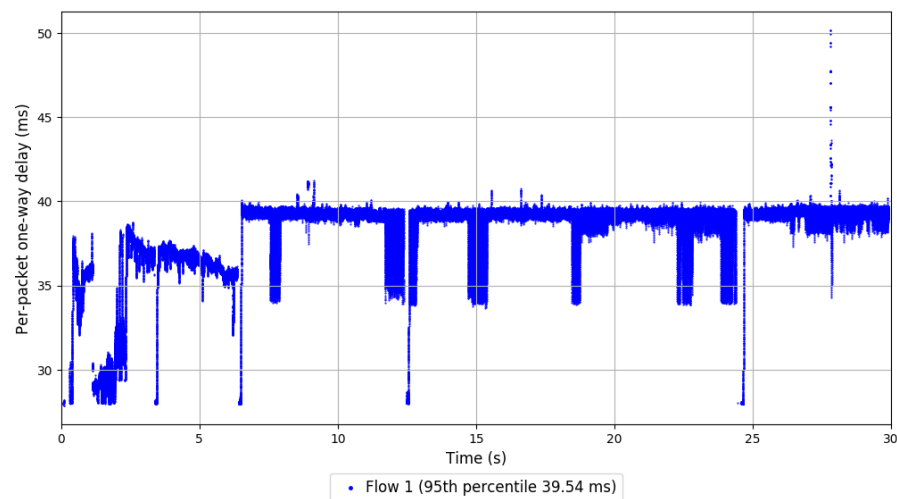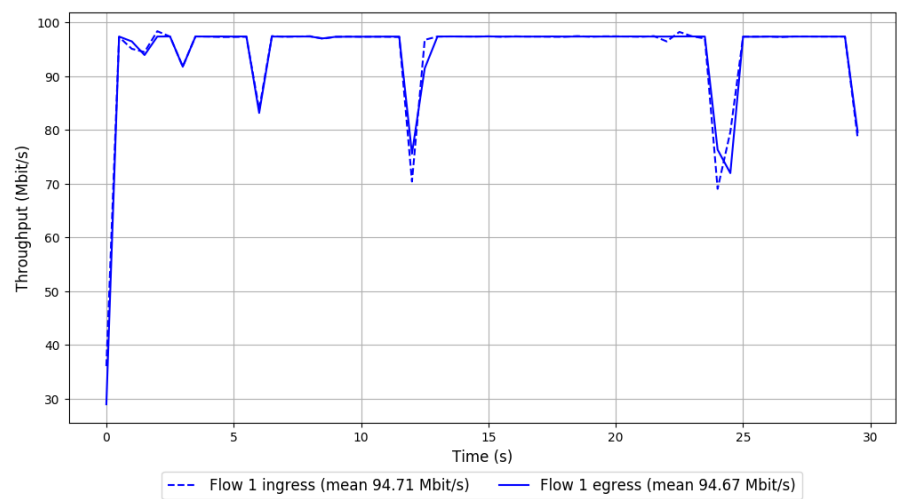
Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-25 06:57:58
End at: 2018-01-25 06:58:28
Local clock offset: 0.001 ms
Remote clock offset: -18.346 ms

Below is generated by plot.py at 2018-01-25 12:05:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 32.045 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 77.15 Mbit/s
95th percentile per-packet one-way delay: 32.045 ms
Loss rate: 0.08%
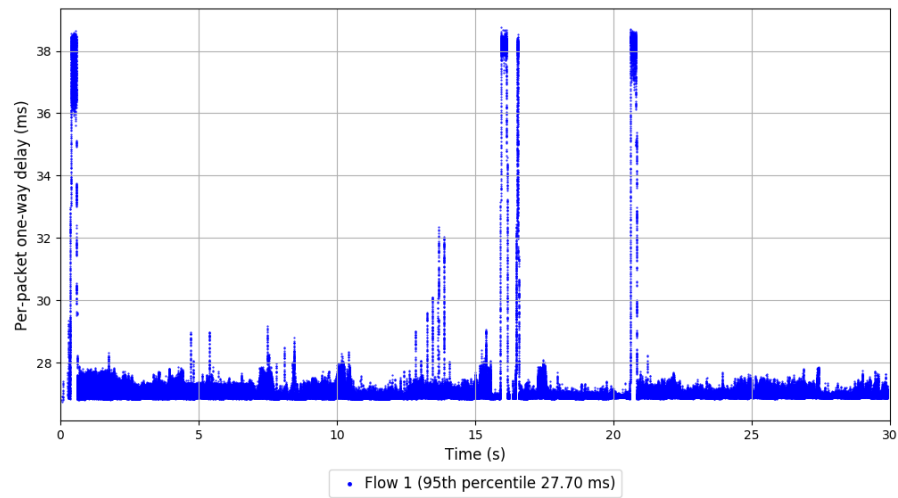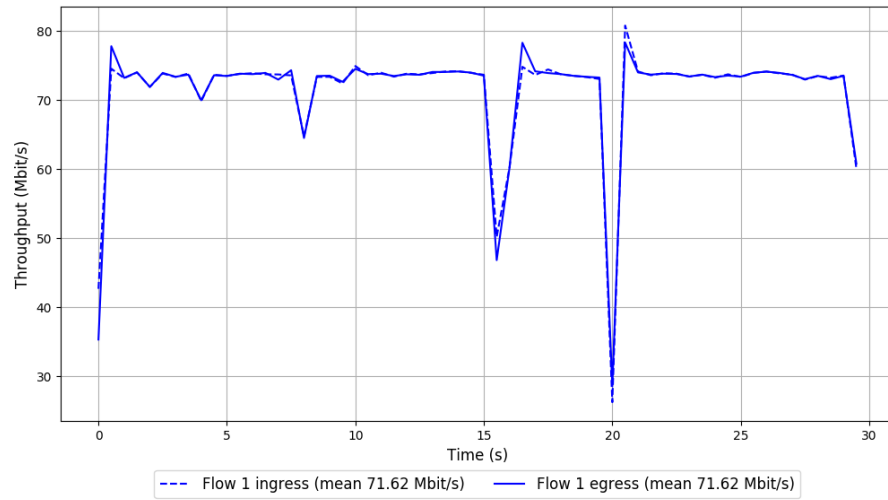```

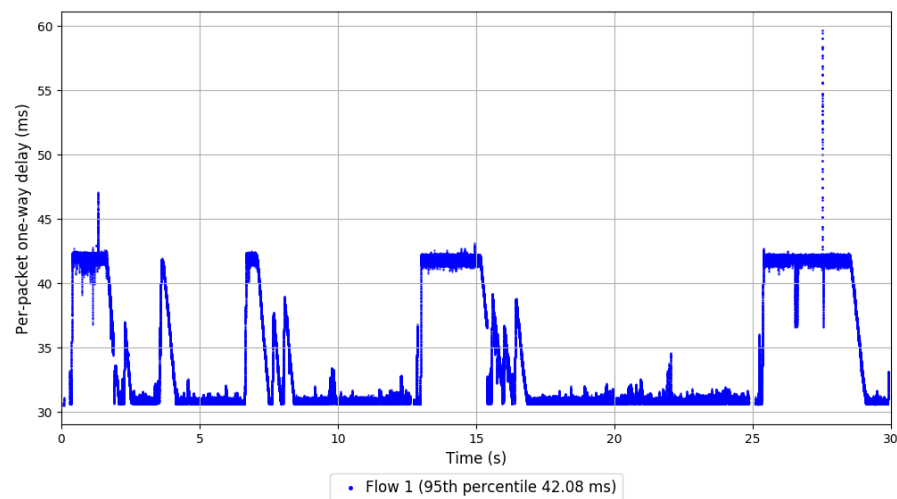Run 5: Report of QUIC Cubic — Data Link

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-25 07:16:39
End at: 2018-01-25 07:17:09
Local clock offset: -1.46 ms
Remote clock offset: -16.719 ms


# Below is generated by plot.py at 2018-01-25 12:06:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 39.541 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 94.67 Mbit/s
95th percentile per-packet one-way delay: 39.541 ms
Loss rate: 0.12%
```

Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 94.71 Mbit/s)   —— Flow 1 egress (mean 94.67 Mbit/s)
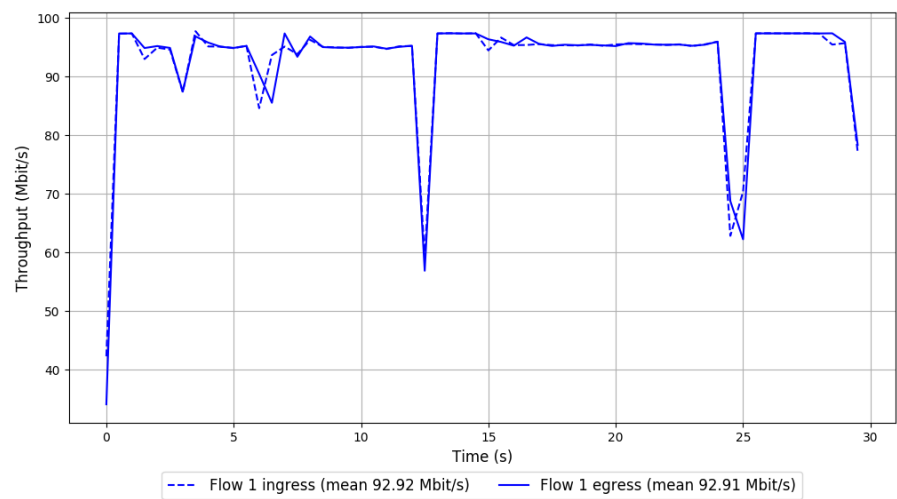

• Flow 1 (95th percentile 39.54 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-25 07:35:27
End at: 2018-01-25 07:35:57
Local clock offset: -1.223 ms
Remote clock offset: -15.805 ms


# Below is generated by plot.py at 2018-01-25 12:06:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.62 Mbit/s
95th percentile per-packet one-way delay: 27.699 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 71.62 Mbit/s
95th percentile per-packet one-way delay: 27.699 ms
Loss rate: 0.08%
```
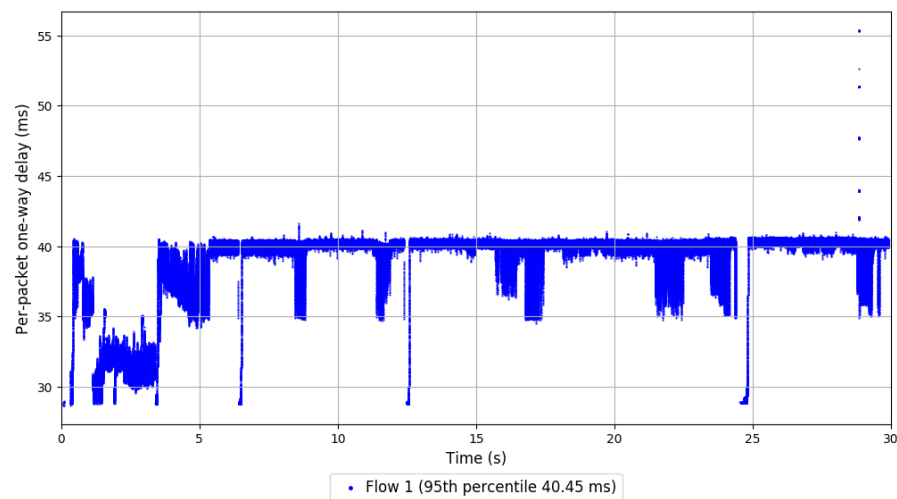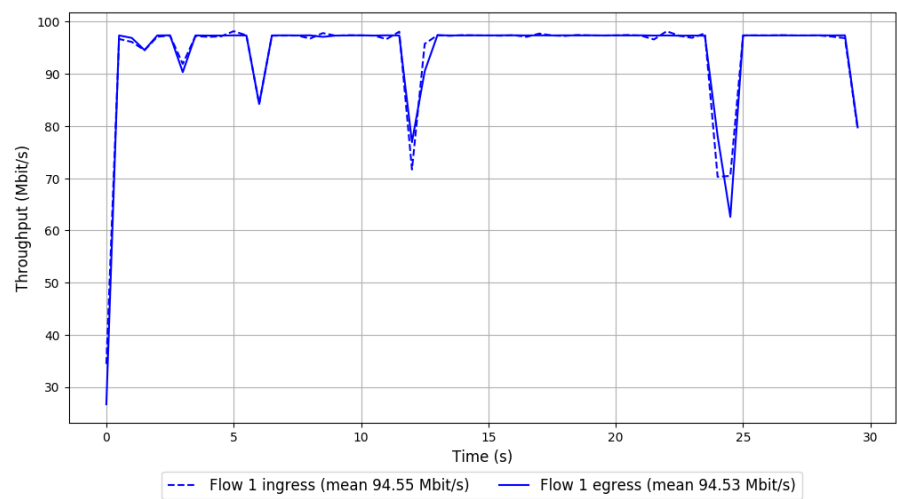
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 71.62 Mbit/s)   Flow 1 egress (mean 71.62 Mbit/s)

Flow 1 (95th percentile 27.70 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-25 07:54:19
End at: 2018-01-25 07:54:49
Local clock offset: 0.677 ms
Remote clock offset: -16.872 ms


# Below is generated by plot.py at 2018-01-25 12:06:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 42.076 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 92.91 Mbit/s
95th percentile per-packet one-way delay: 42.076 ms
Loss rate: 0.09%
```
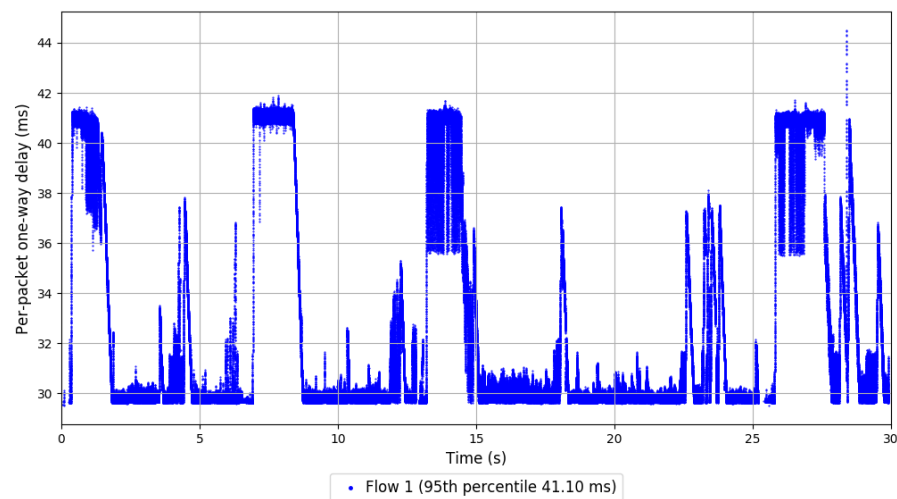
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 92.92 Mbit/s) ---- Flow 1 egress (mean 92.91 Mbit/s) ——

• Flow 1 (95th percentile 42.08 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-25 08:12:54
End at: 2018-01-25 08:13:24
Local clock offset: 0.186 ms
Remote clock offset: -15.924 ms


# Below is generated by plot.py at 2018-01-25 12:06:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 40.453 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 40.453 ms
Loss rate: 0.12%
```
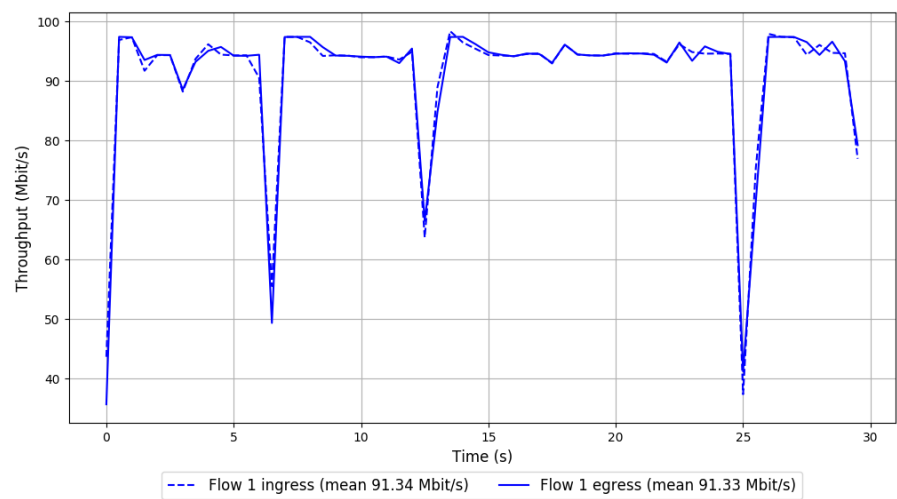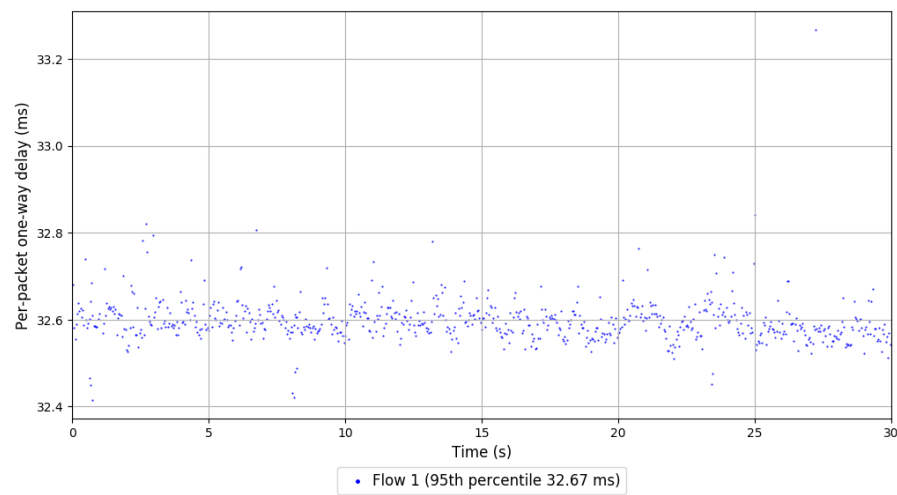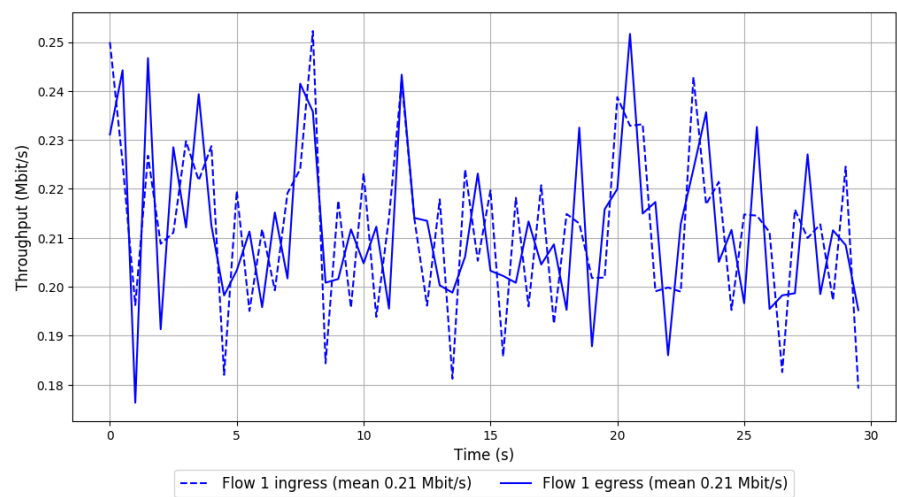
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 94.55 Mbit/s) --- Flow 1 egress (mean 94.53 Mbit/s)

• Flow 1 (95th percentile 40.45 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-25 08:32:03
End at: 2018-01-25 08:32:33
Local clock offset: -0.246 ms
Remote clock offset: -16.182 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 41.104 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.33 Mbit/s
95th percentile per-packet one-way delay: 41.104 ms
Loss rate: 0.09%
```

Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 91.34 Mbit/s)   Flow 1 egress (mean 91.33 Mbit/s)
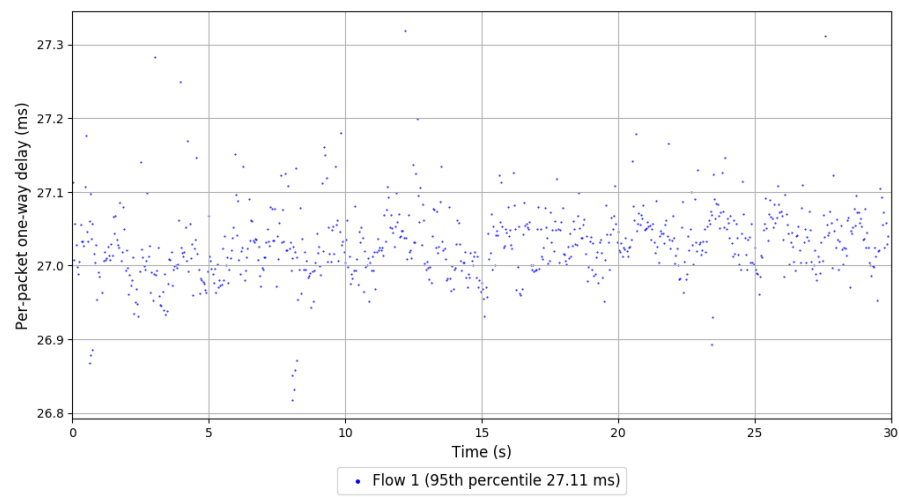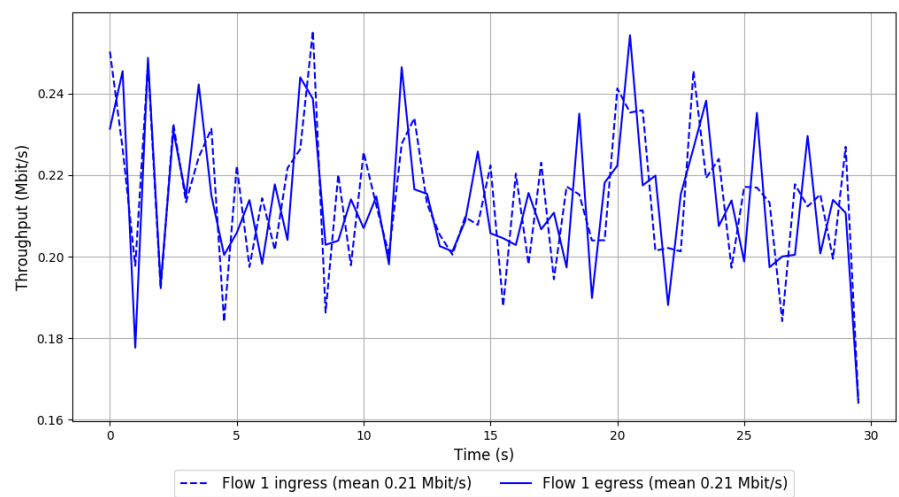

Flow 1 (95th percentile 41.10 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-01-25 05:55:39
End at: 2018-01-25 05:56:09
Local clock offset: 1.302 ms
Remote clock offset: -18.71 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.674 ms
Loss rate: 0.00%
```
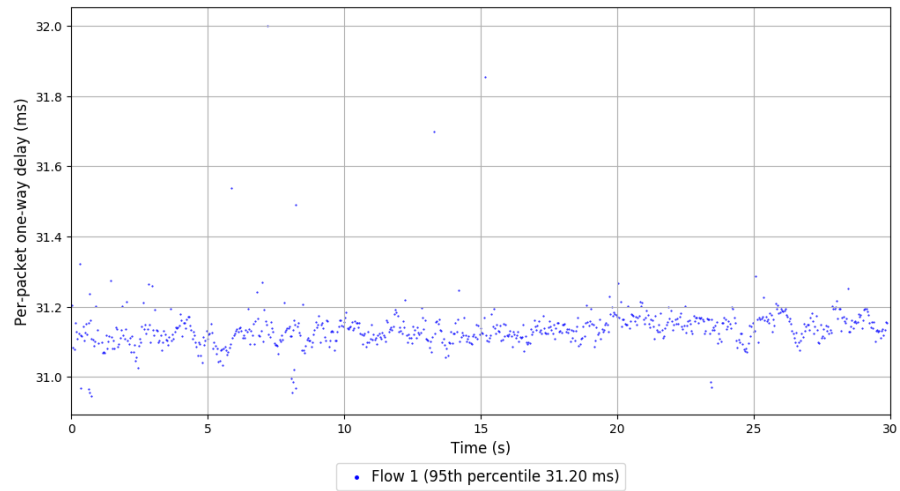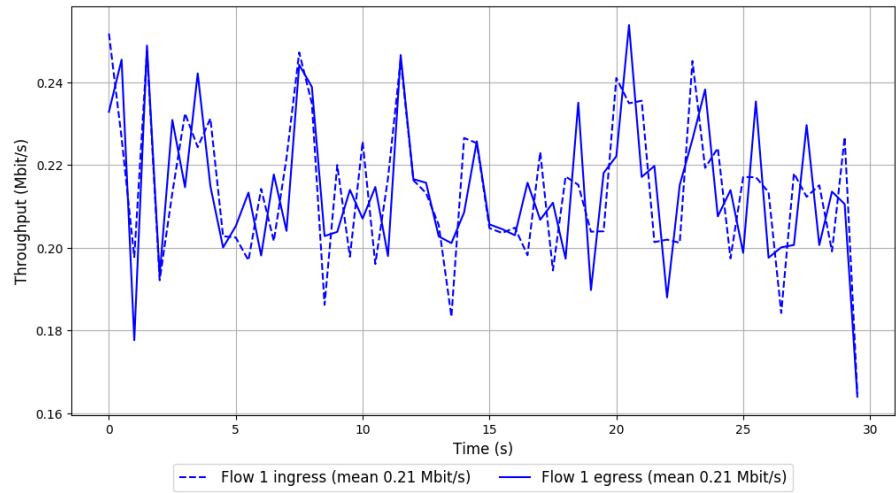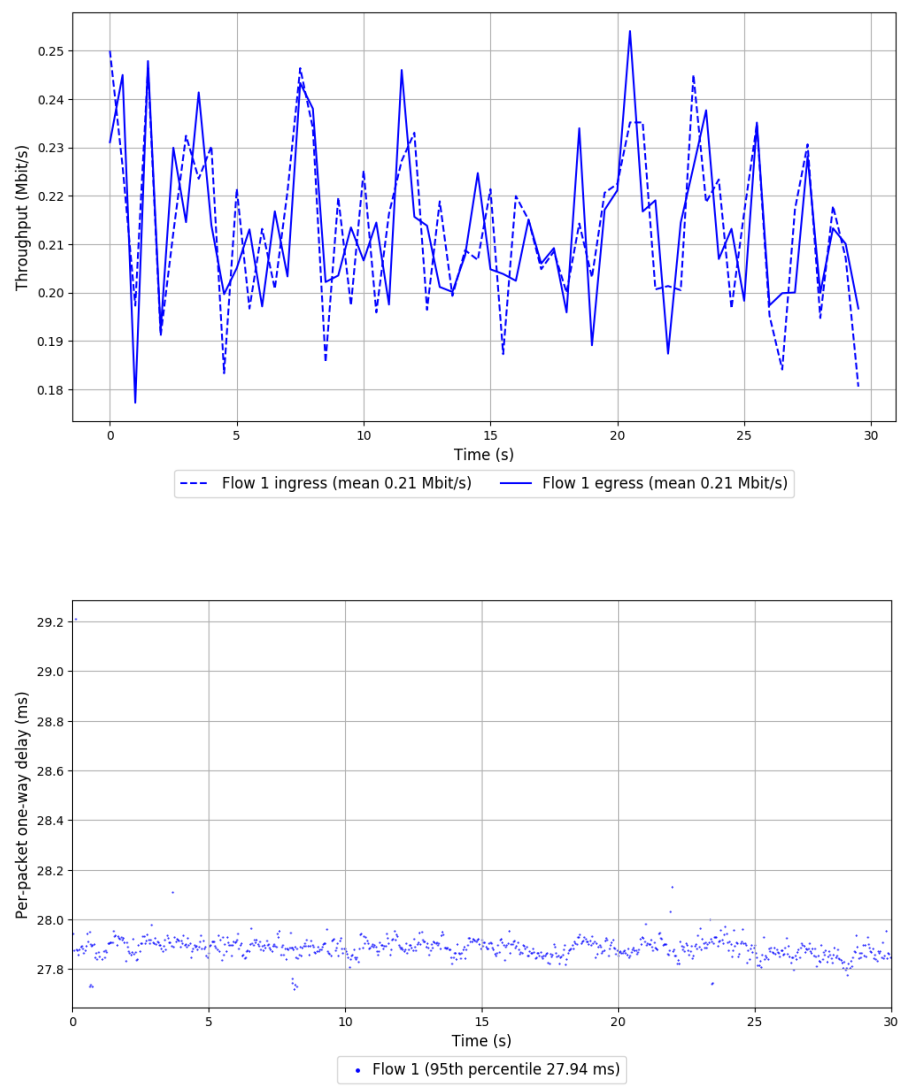
Run 1: Report of SCReAM — Data Link

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

• Flow 1 (95th percentile 32.67 ms)

```
Run 2: Statistics of SCReAM

Start at: 2018-01-25 06:14:37
End at: 2018-01-25 06:15:07
Local clock offset: -1.83 ms
Remote clock offset: -19.11 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.108 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.108 ms
Loss rate: 0.13%
```
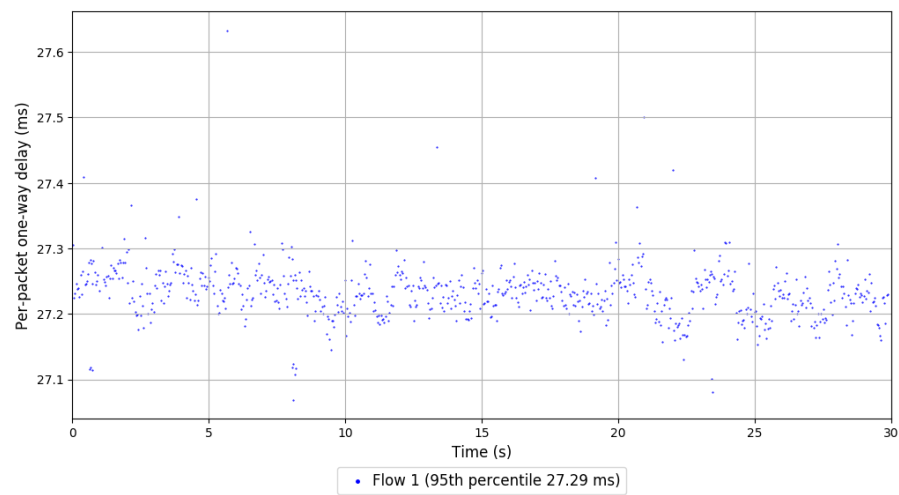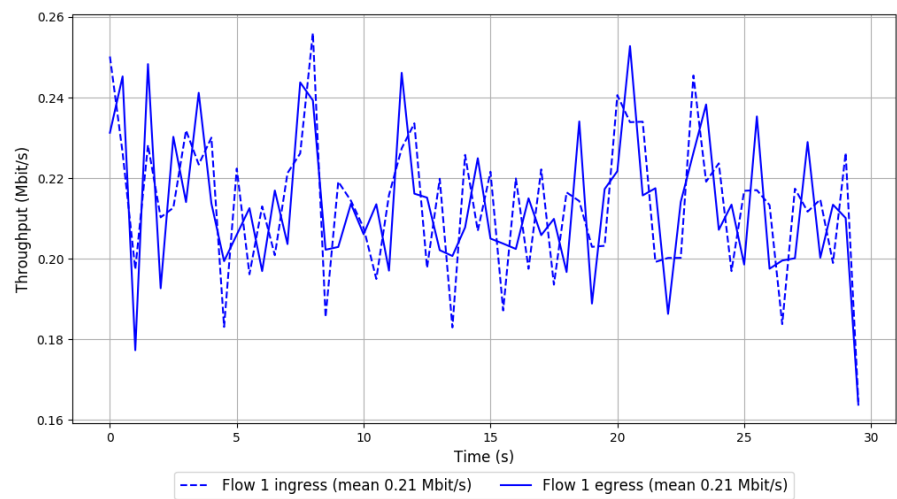
Run 2: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 27.11 ms)

```
Run 3: Statistics of SCReAM

Start at: 2018-01-25 06:33:15
End at: 2018-01-25 06:33:45
Local clock offset: 1.837 ms
Remote clock offset: -18.13 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.199 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.199 ms
Loss rate: 0.13%
```
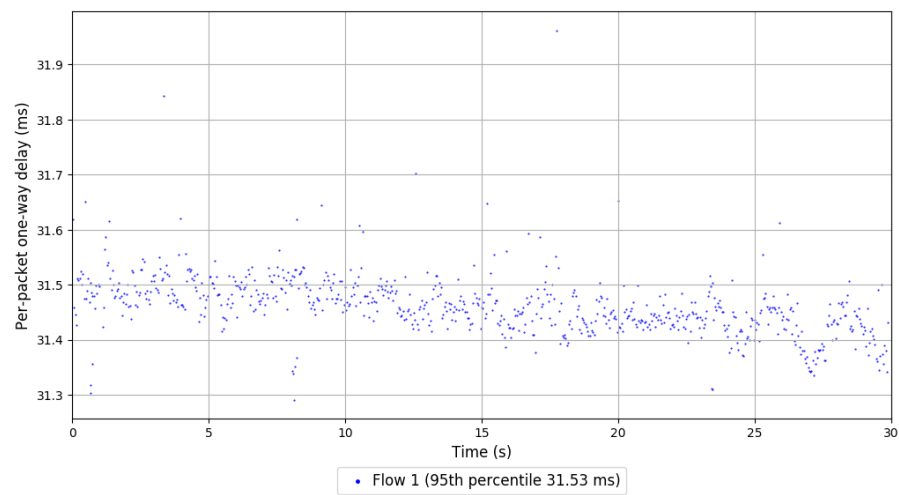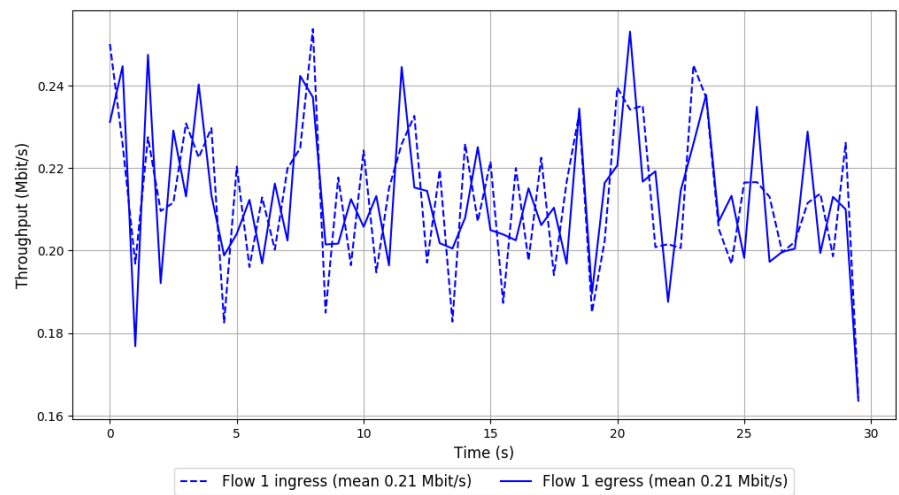
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2018-01-25 06:52:01
End at: 2018-01-25 06:52:31
Local clock offset: -2.092 ms
Remote clock offset: -17.365 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.939 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.939 ms
Loss rate: 0.00%
```

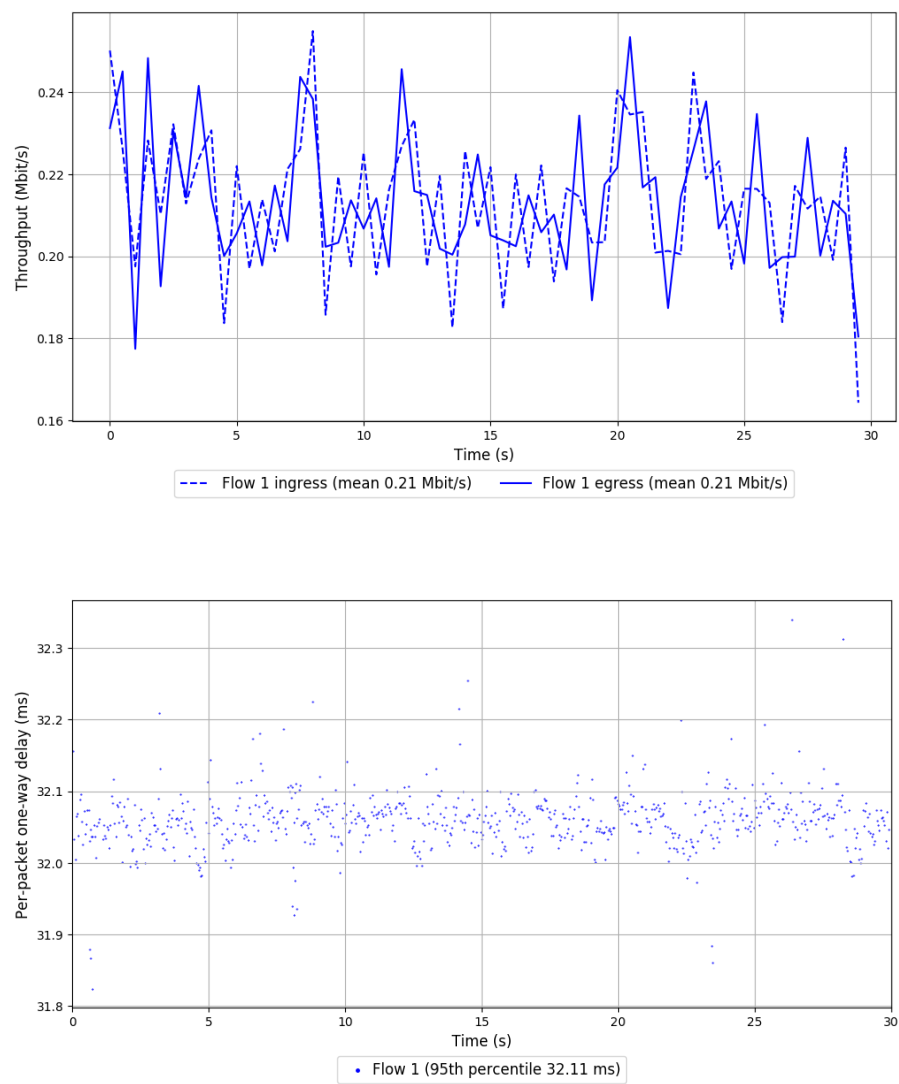Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2018-01-25 07:10:51
End at: 2018-01-25 07:11:21
Local clock offset: -2.657 ms
Remote clock offset: -17.024 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.286 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.286 ms
Loss rate: 0.13%
```

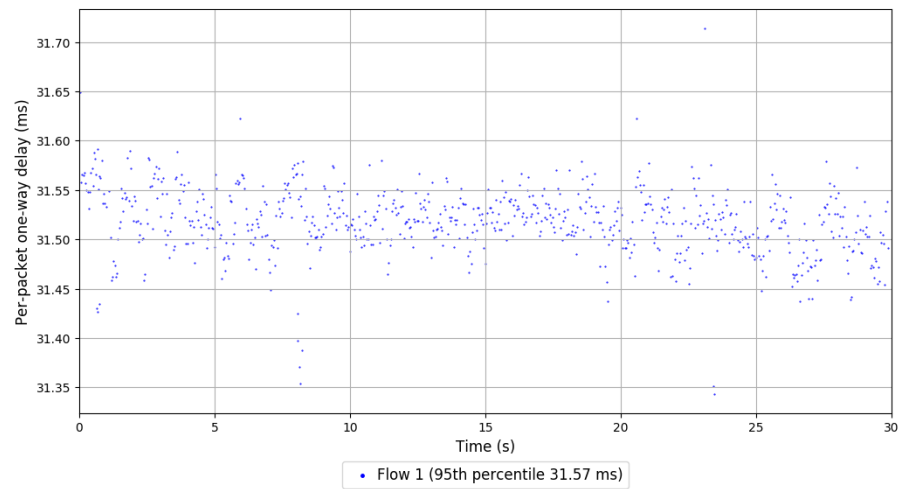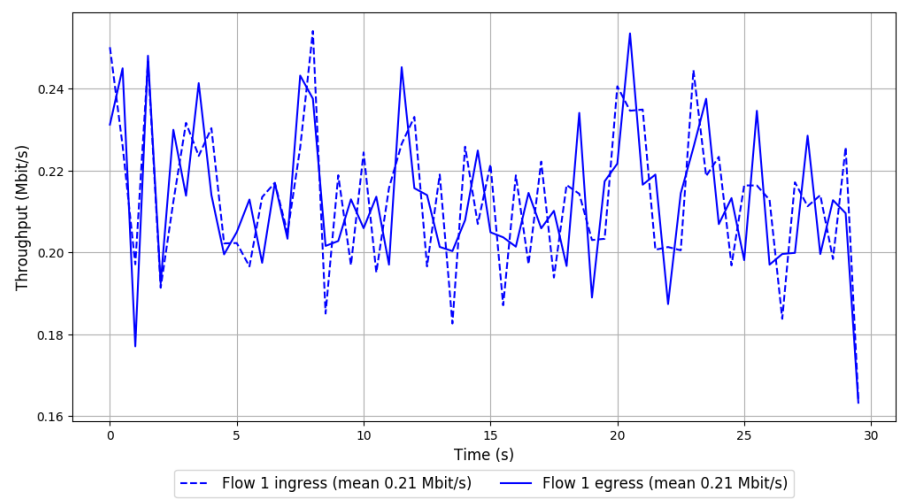Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2018-01-25 07:29:37
End at: 2018-01-25 07:30:07
Local clock offset: 0.027 ms
Remote clock offset: -18.885 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.531 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.531 ms
Loss rate: 0.13%
```
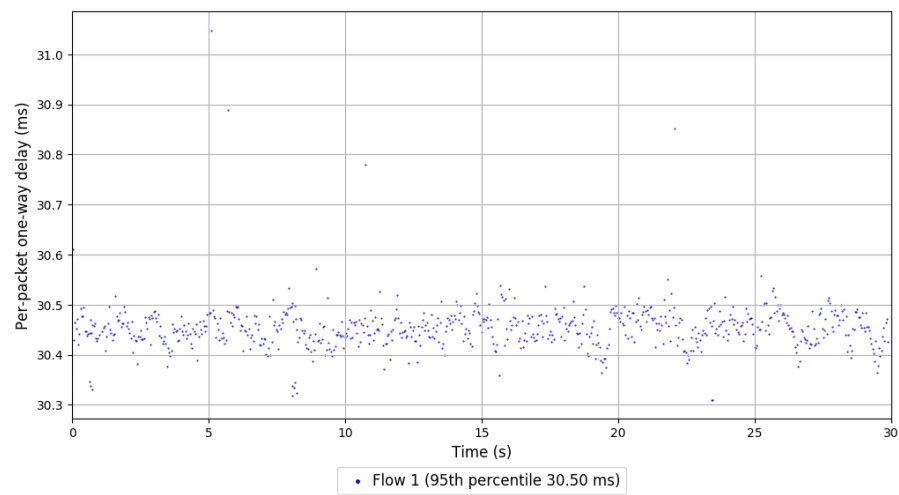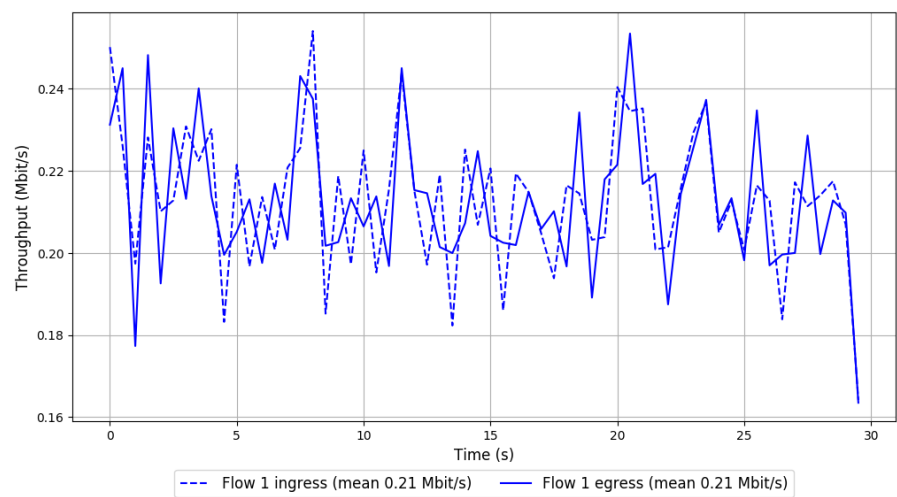
Run 6: Report of SCReAM — Data Link

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

• Flow 1 (95th percentile 31.53 ms)

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```
Run 7: Statistics of SCReAM

Start at: 2018-01-25 07:48:30
End at: 2018-01-25 07:49:00
Local clock offset: 3.372 ms
Remote clock offset: -15.604 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 32.112 ms
Loss rate: 0.00%
```

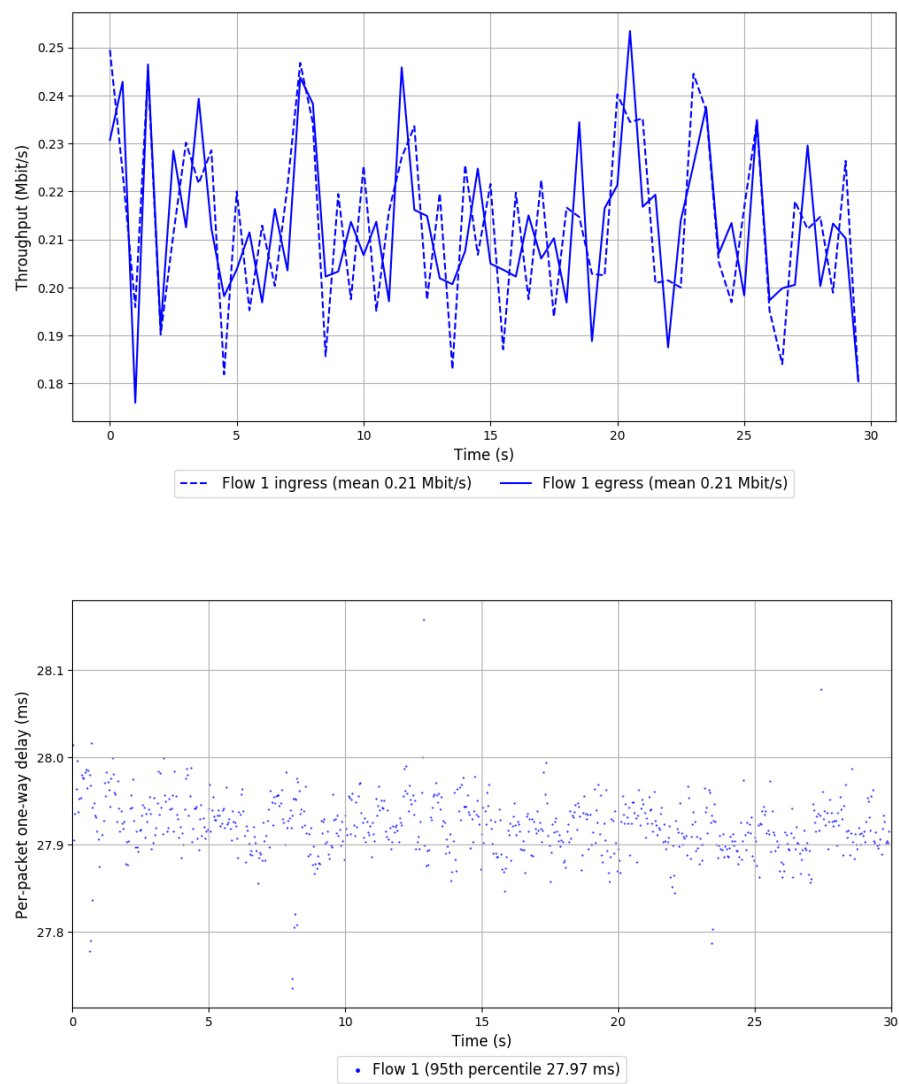# Run 7: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 32.11 ms)

```
Run 8: Statistics of SCReAM

Start at: 2018-01-25 08:07:18
End at: 2018-01-25 08:07:48
Local clock offset: 0.779 ms
Remote clock offset: -18.271 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.567 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 31.567 ms
Loss rate: 0.13%
```
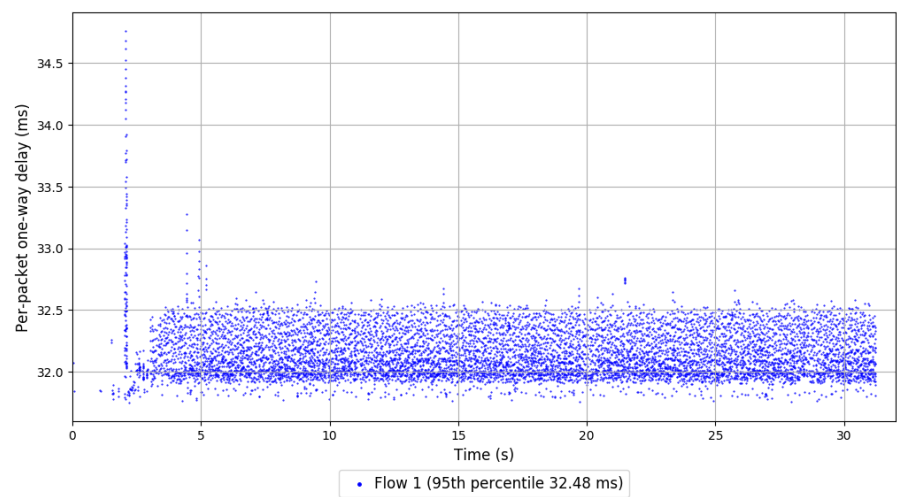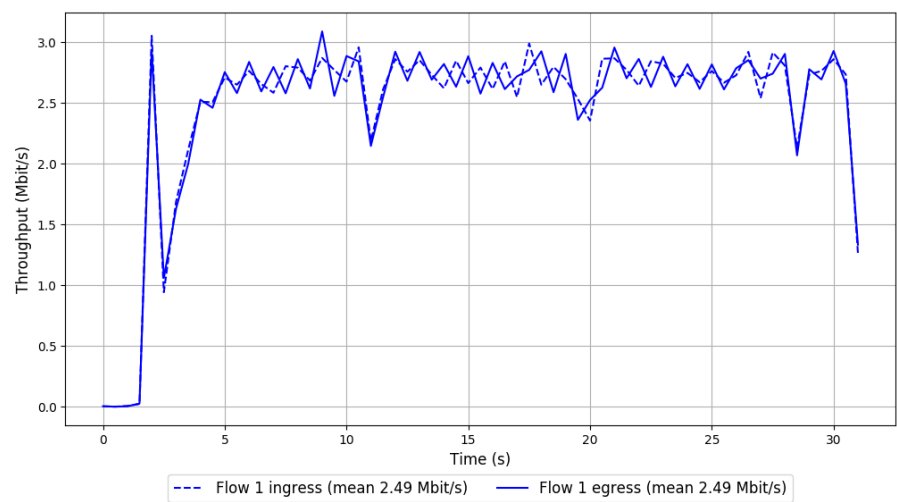
Run 8: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 31.57 ms)

```
Run 9: Statistics of SCReAM

Start at: 2018-01-25 08:26:18
End at: 2018-01-25 08:26:48
Local clock offset: 0.525 ms
Remote clock offset: -16.084 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.504 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.504 ms
Loss rate: 0.13%
```

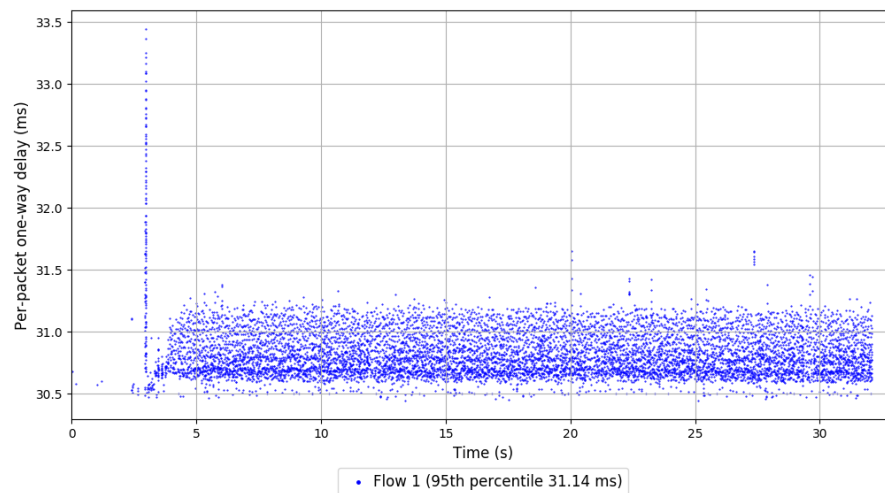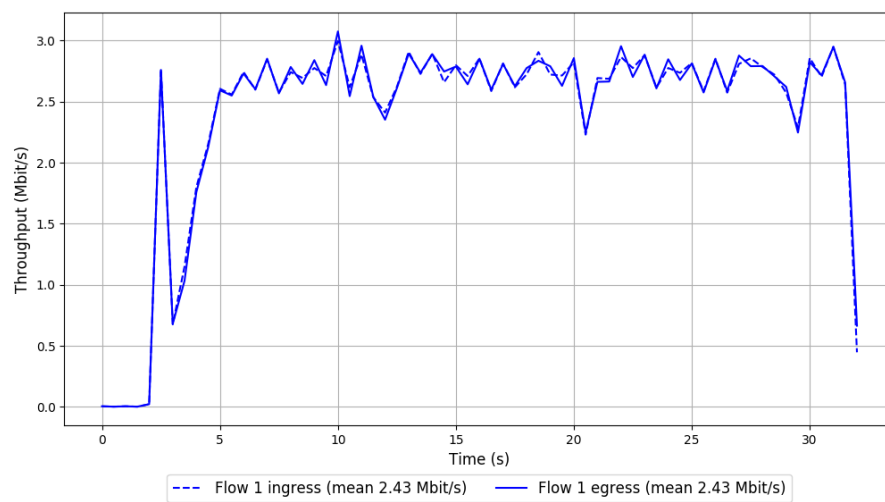# Run 9: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 30.50 ms)

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```
Run 10: Statistics of SCReAM

Start at: 2018-01-25 08:44:54
End at: 2018-01-25 08:45:24
Local clock offset: -2.266 ms
Remote clock offset: -16.647 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.972 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 27.972 ms
Loss rate: 0.13%
```
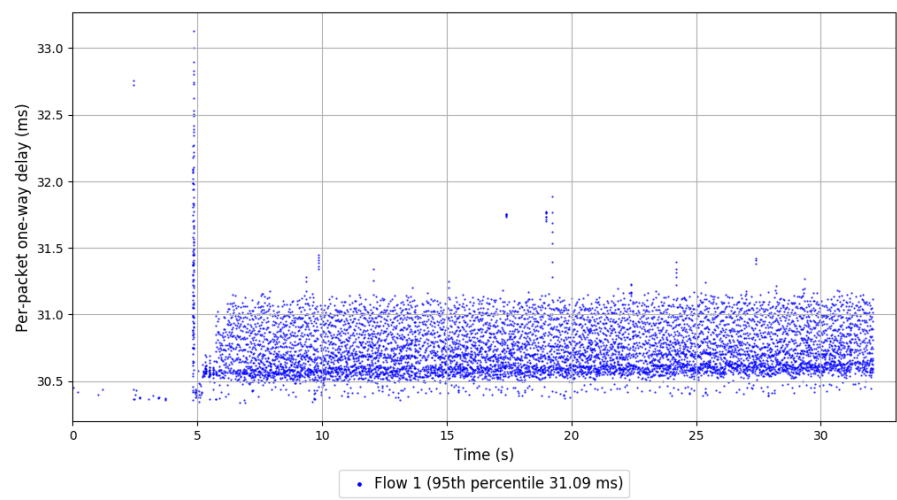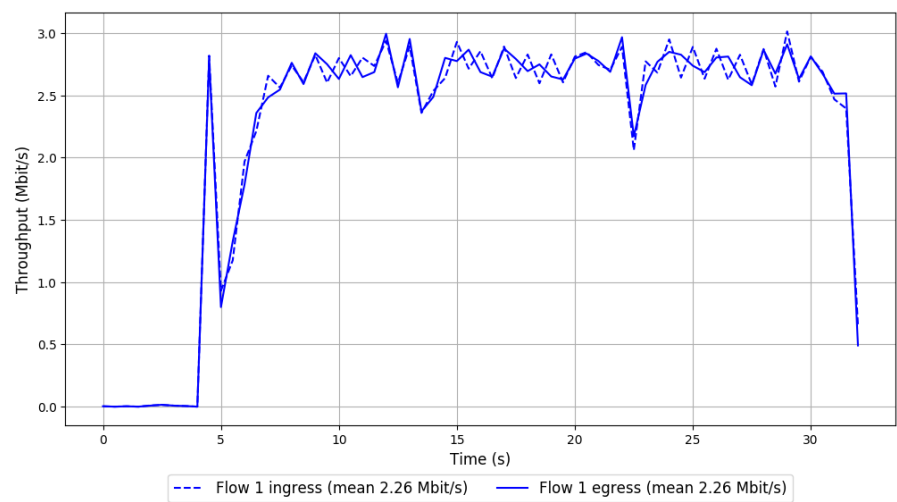
Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2018-01-25 05:47:26
End at: 2018-01-25 05:47:56
Local clock offset: -0.079 ms
Remote clock offset: -19.417 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 32.480 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.49 Mbit/s
95th percentile per-packet one-way delay: 32.480 ms
Loss rate: 0.10%
```
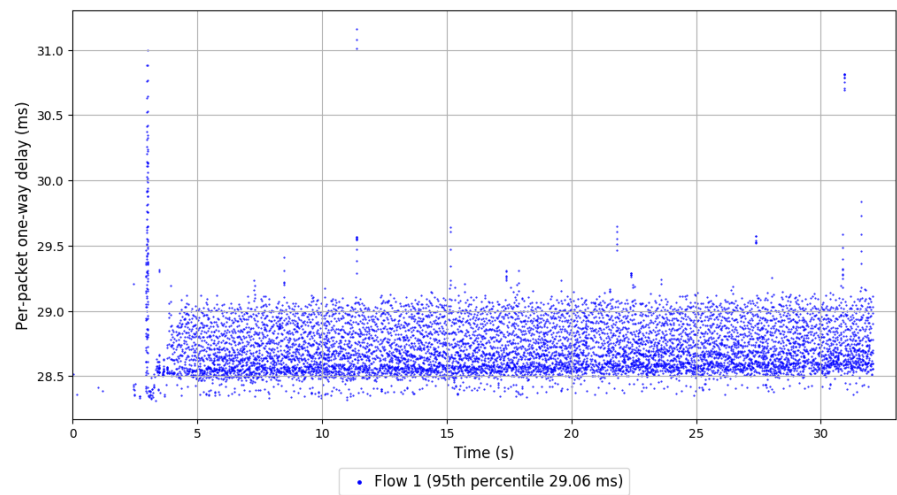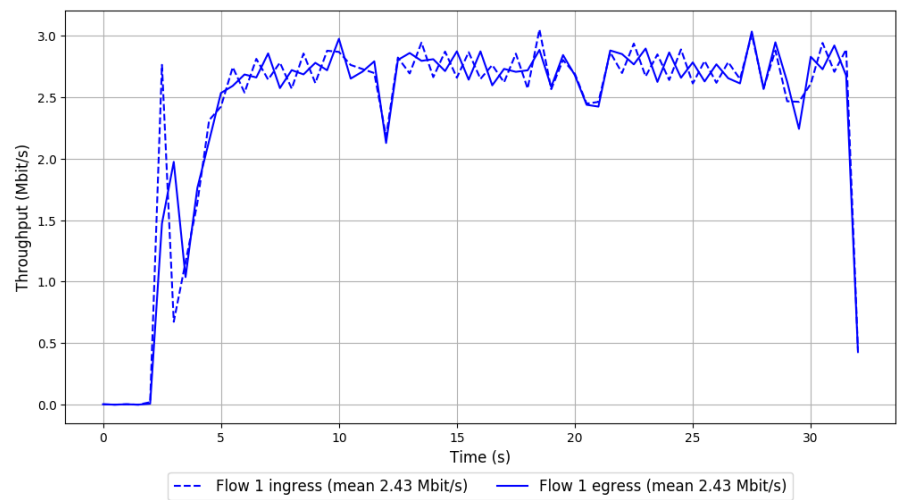
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-01-25 06:06:32
End at: 2018-01-25 06:07:02
Local clock offset: 1.399 ms
Remote clock offset: -19.803 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 31.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 31.144 ms
Loss rate: 0.00%
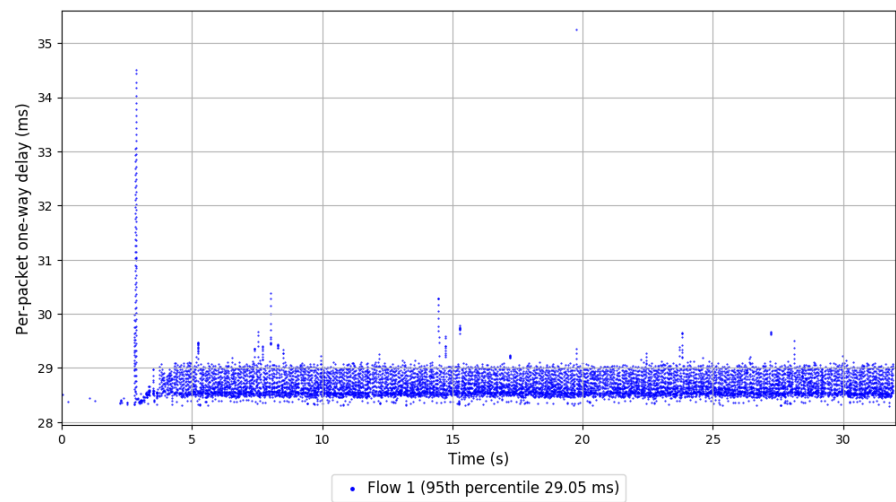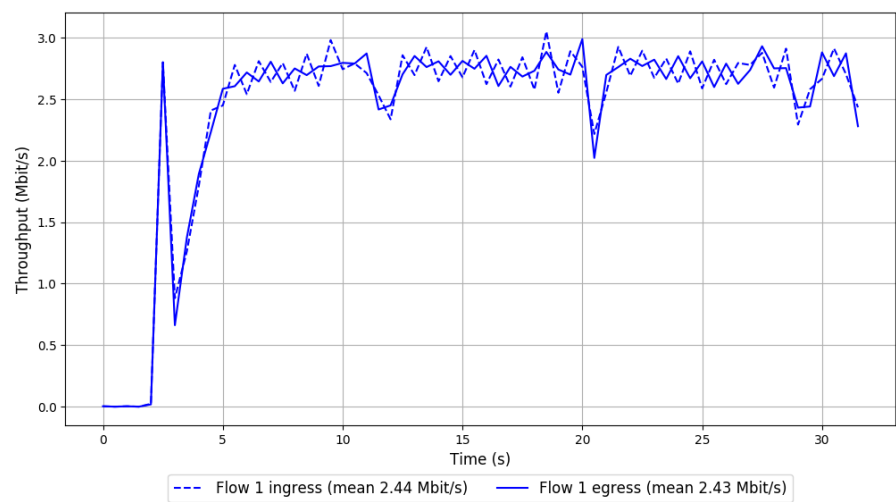```

Run 2: Report of WebRTC media — Data Link



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



• Flow 1 (95th percentile 31.14 ms)

```
Run 3: Statistics of WebRTC media

Start at: 2018-01-25 06:25:06
End at: 2018-01-25 06:25:36
Local clock offset: 1.76 ms
Remote clock offset: -18.511 ms

Below is generated by plot.py at 2018-01-25 12:06:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 31.085 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 31.085 ms
Loss rate: 0.15%
```
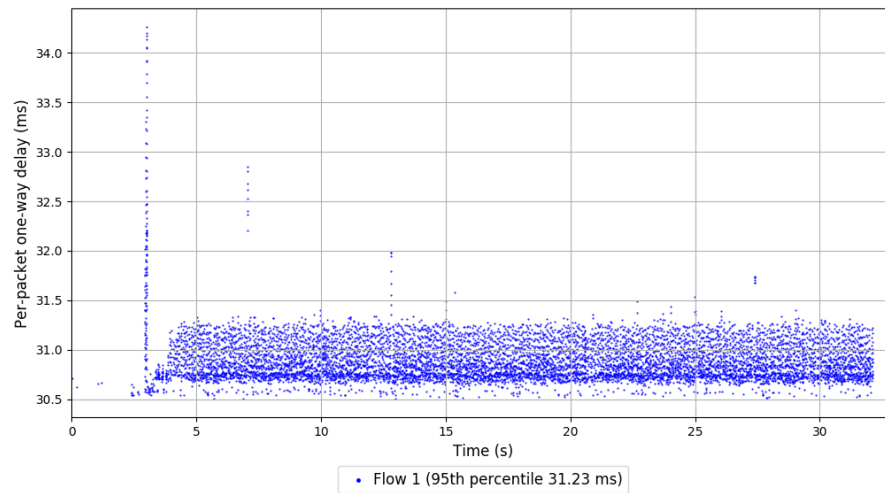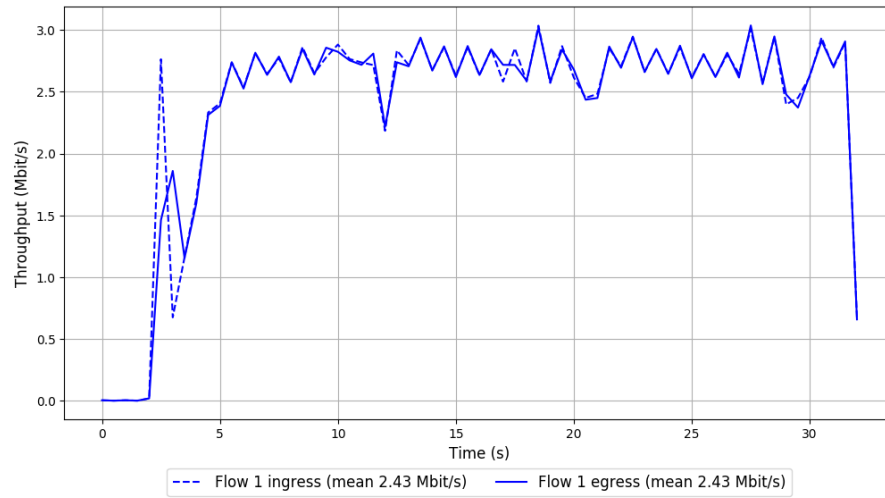
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-01-25 06:43:48
End at: 2018-01-25 06:44:18
Local clock offset: -0.272 ms
Remote clock offset: -16.382 ms

Below is generated by plot.py at 2018-01-25 12:06:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 29.060 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 29.060 ms
Loss rate: 0.14%
```
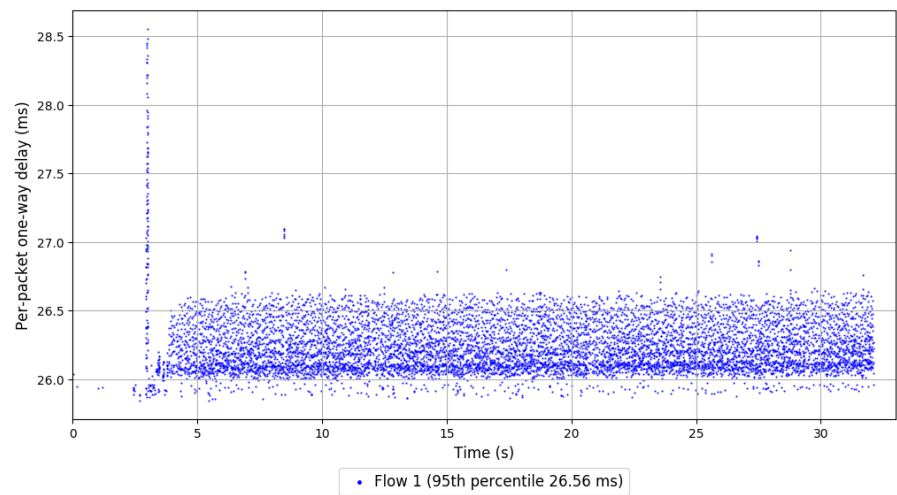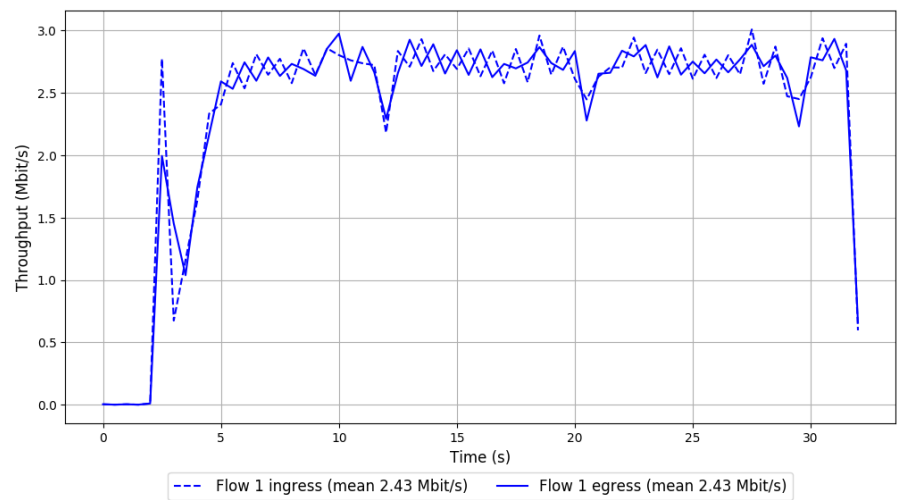
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2018-01-25 07:02:46
End at: 2018-01-25 07:03:16
Local clock offset: -0.509 ms
Remote clock offset: -16.107 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 29.045 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 29.045 ms
Loss rate: 0.14%
```

Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.44 Mbit/s) — — — Flow 1 egress (mean 2.43 Mbit/s)

Flow 1 (95th percentile 29.05 ms)

```
Run 6: Statistics of WebRTC media

Start at: 2018-01-25 07:21:26
End at: 2018-01-25 07:21:56
Local clock offset: -0.839 ms
Remote clock offset: -18.464 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 31.226 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 31.226 ms
Loss rate: 0.15%
```
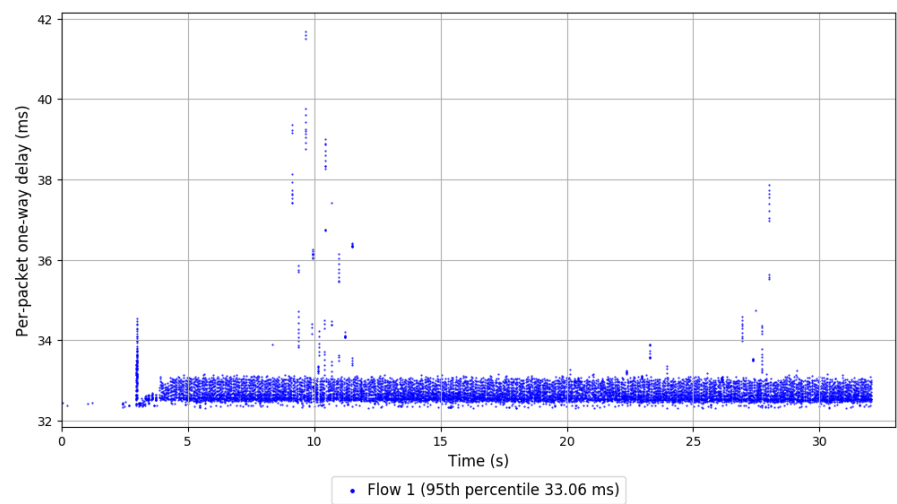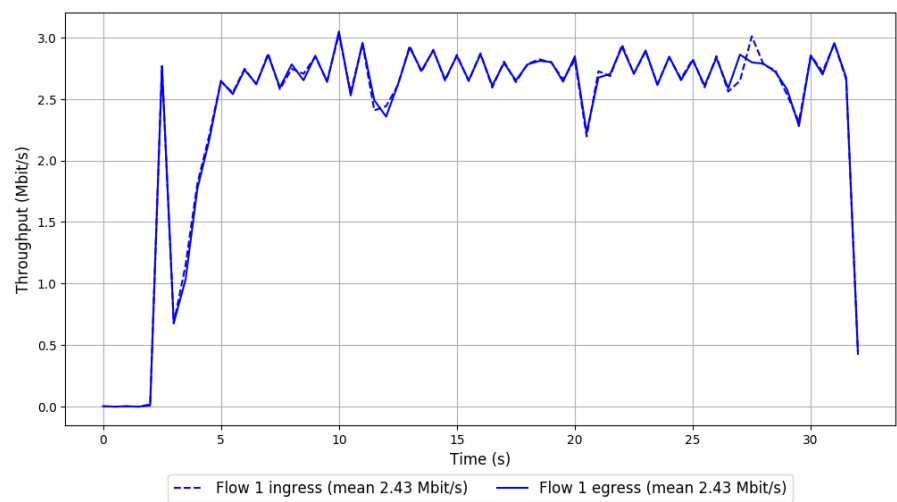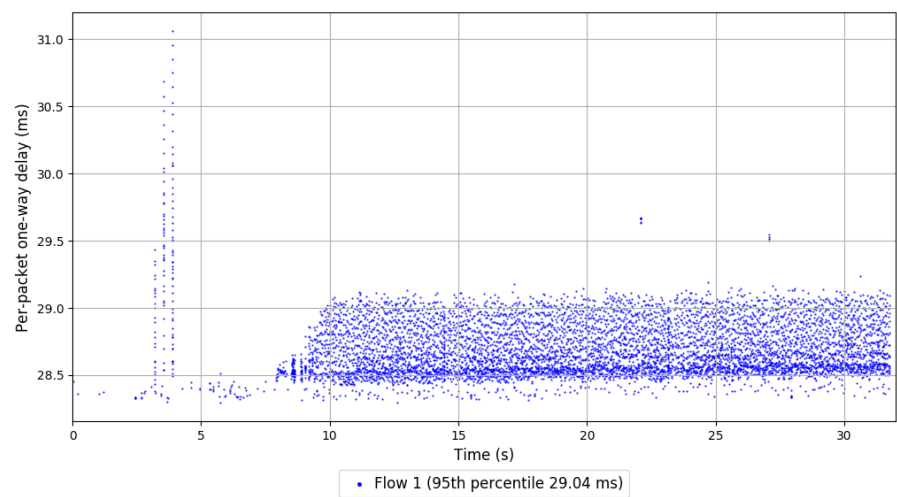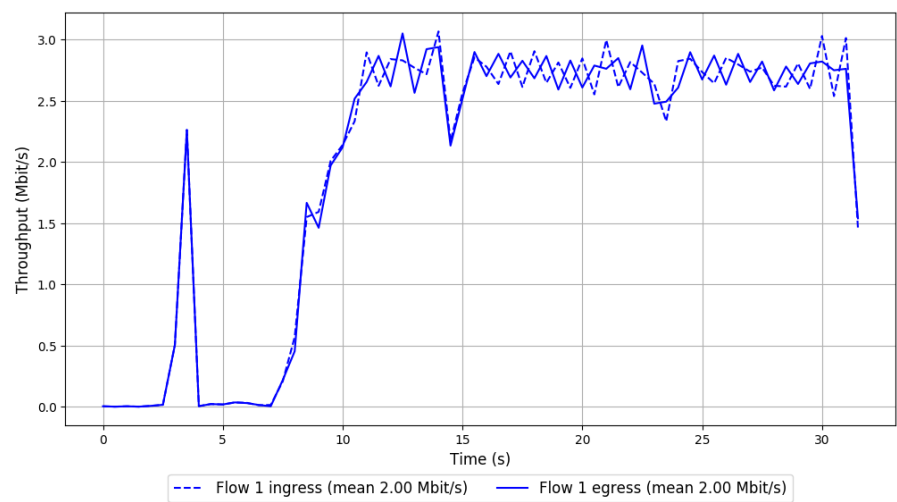
Run 6: Report of WebRTC media — Data Link

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

Flow 1 (95th percentile 31.23 ms)

```
Run 7: Statistics of WebRTC media

Start at: 2018-01-25 07:40:14
End at: 2018-01-25 07:40:44
Local clock offset: -1.762 ms
Remote clock offset: -15.111 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 26.558 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 26.558 ms
Loss rate: 0.10%
```

Run 7: Report of WebRTC media — Data Link

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

Flow 1 (95th percentile 26.56 ms)

```
Run 8: Statistics of WebRTC media

Start at: 2018-01-25 07:59:04
End at: 2018-01-25 07:59:34
Local clock offset: 2.598 ms
Remote clock offset: -17.07 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 33.061 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 33.061 ms
Loss rate: 0.14%
```
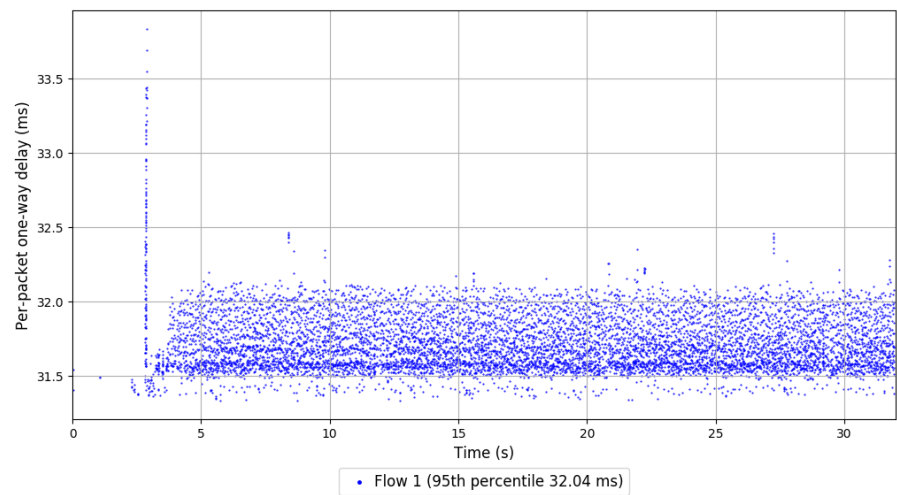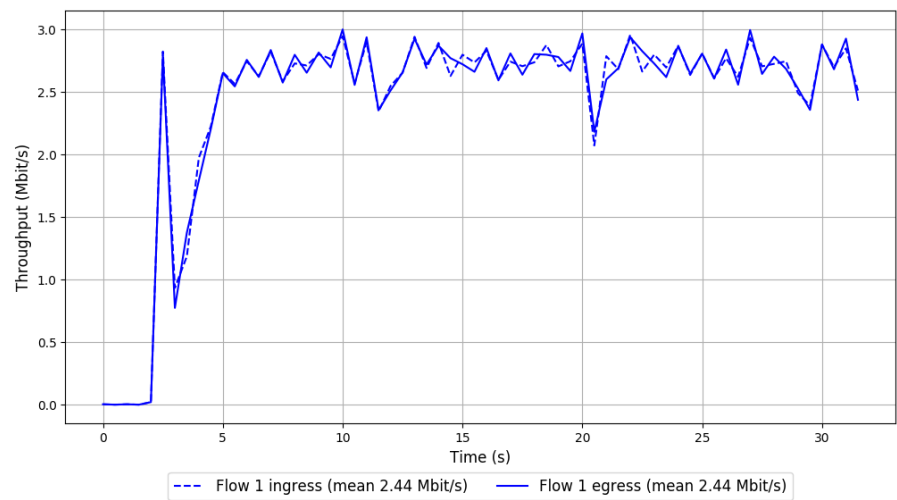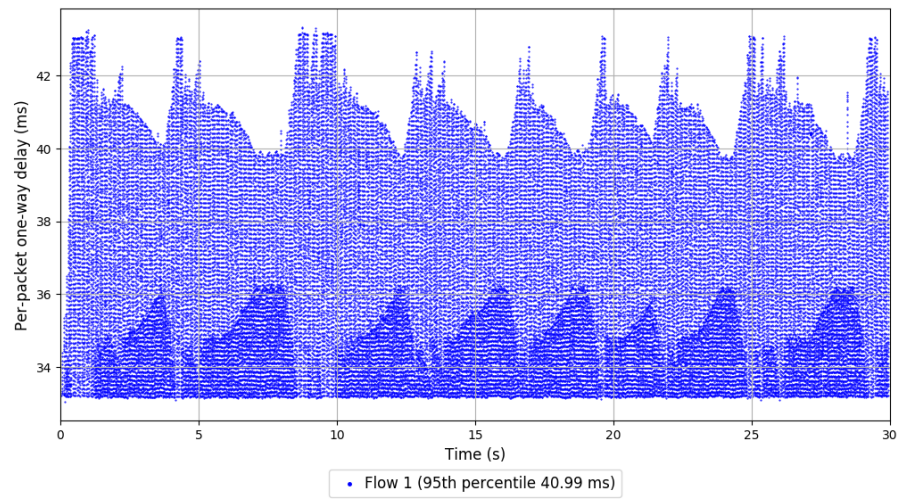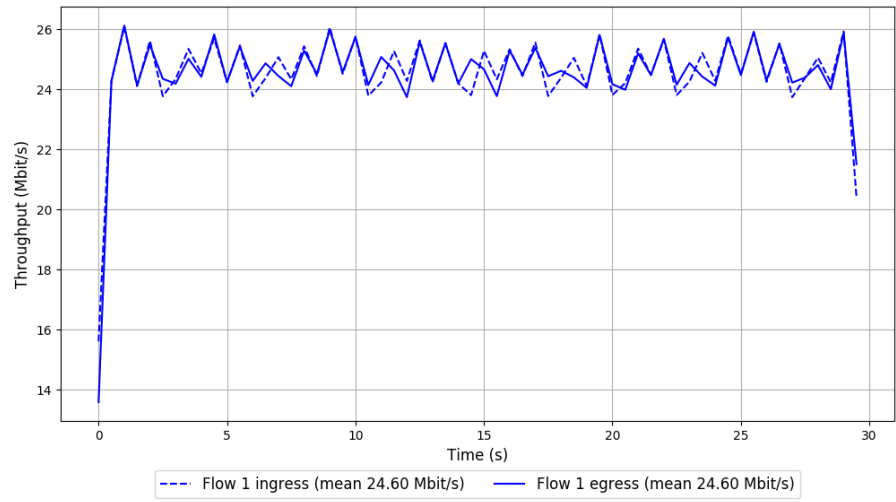
Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2018-01-25 08:18:06
End at: 2018-01-25 08:18:36
Local clock offset: -0.473 ms
Remote clock offset: -15.557 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 29.040 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 29.040 ms
Loss rate: 0.14%
```
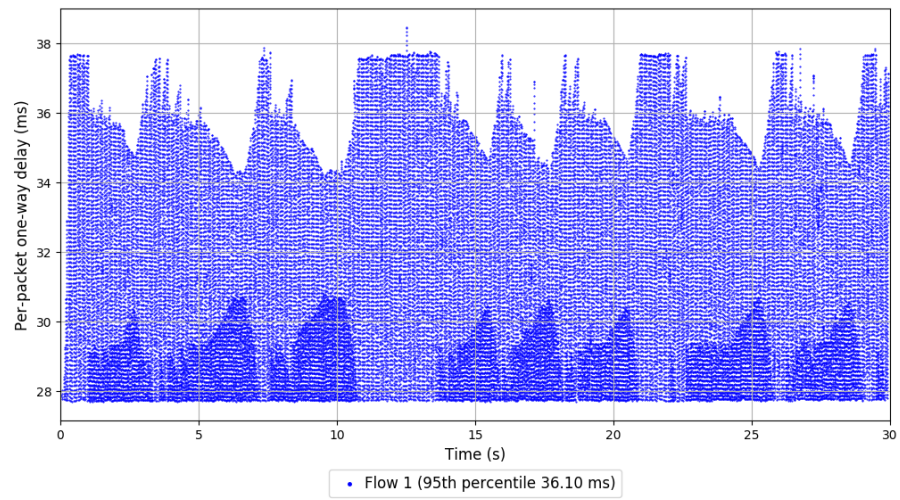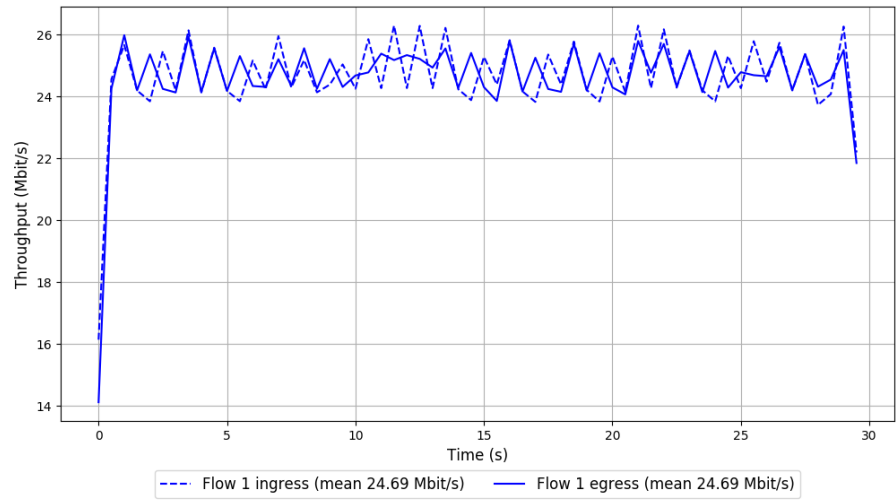
Run 9: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.00 Mbit/s)   Flow 1 egress (mean 2.00 Mbit/s)

Flow 1 (95th percentile 29.04 ms)

```
Run 10: Statistics of WebRTC media

Start at: 2018-01-25 08:36:50
End at: 2018-01-25 08:37:20
Local clock offset: 2.535 ms
Remote clock offset: -15.324 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 32.036 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 32.036 ms
Loss rate: 0.14%
```
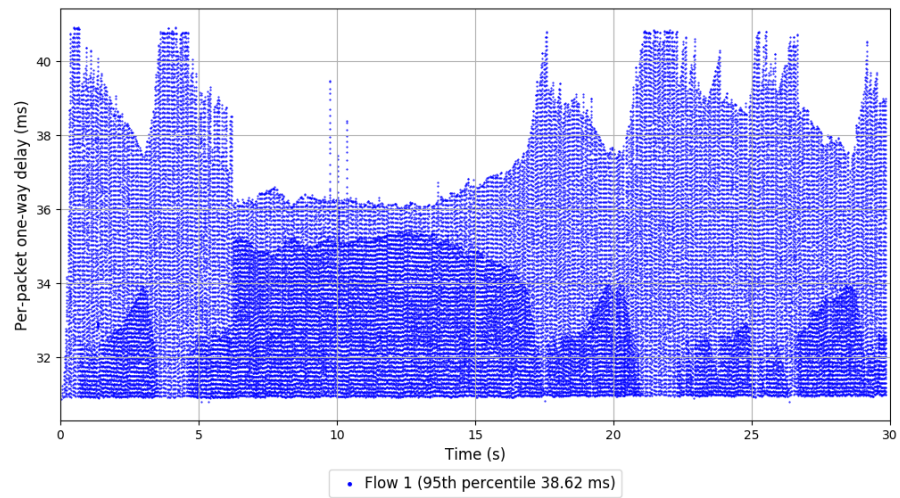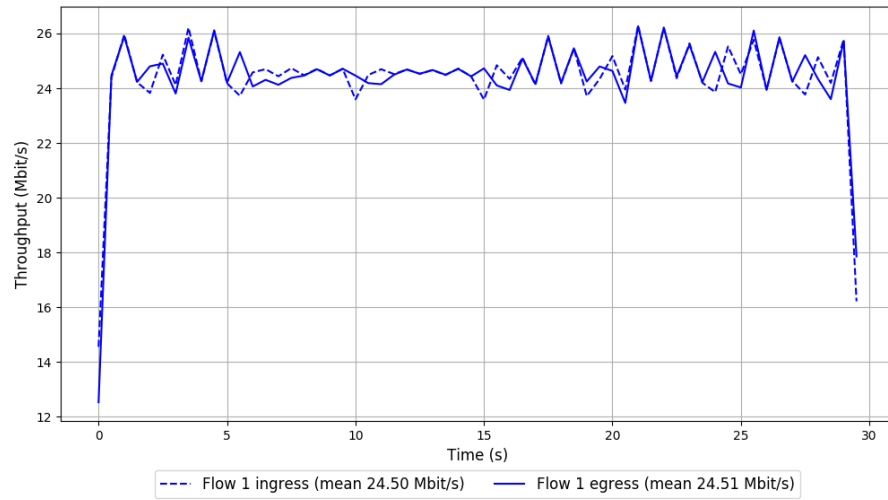
Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2018-01-25 05:53:19
End at: 2018-01-25 05:53:49
Local clock offset: 0.331 ms
Remote clock offset: -21.495 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 40.986 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 40.986 ms
Loss rate: 0.06%
```

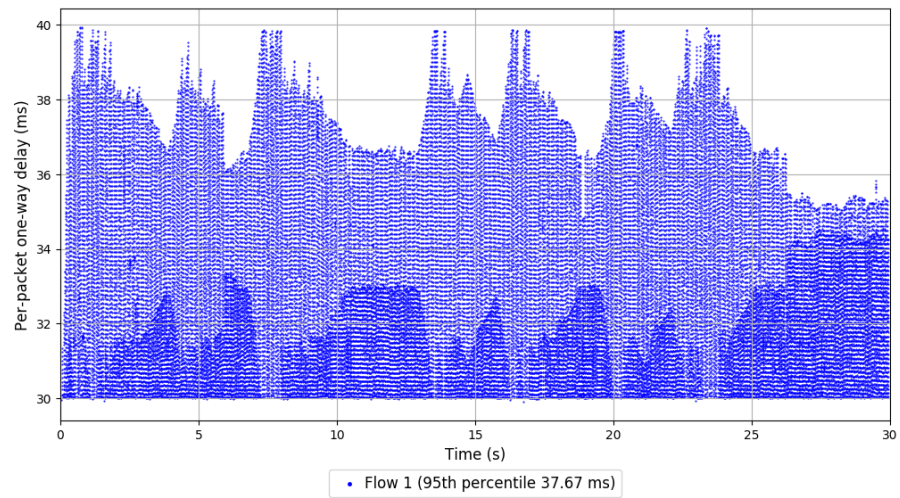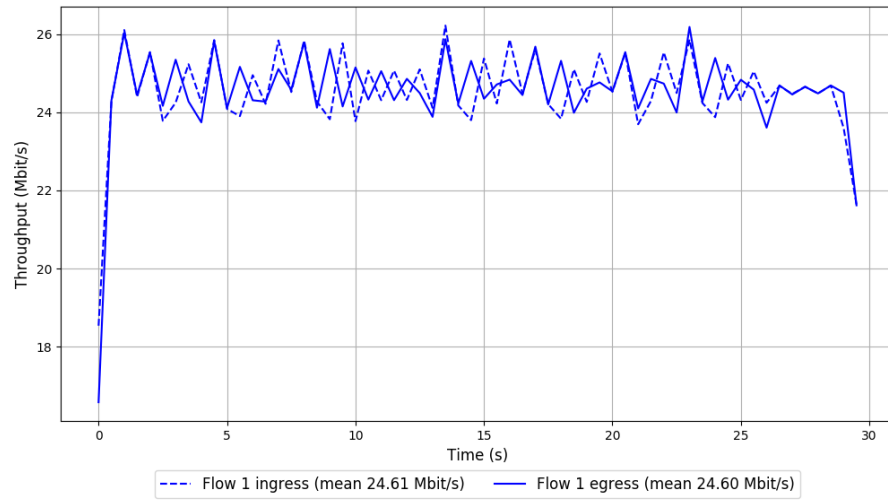Run 1: Report of Sprout — Data Link

Run 2: Statistics of Sprout

Start at: 2018-01-25 06:12:19
End at: 2018-01-25 06:12:49
Local clock offset: -2.418 ms
Remote clock offset: -20.704 ms

Below is generated by plot.py at 2018-01-25 12:06:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 36.097 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 36.097 ms
Loss rate: 0.14%
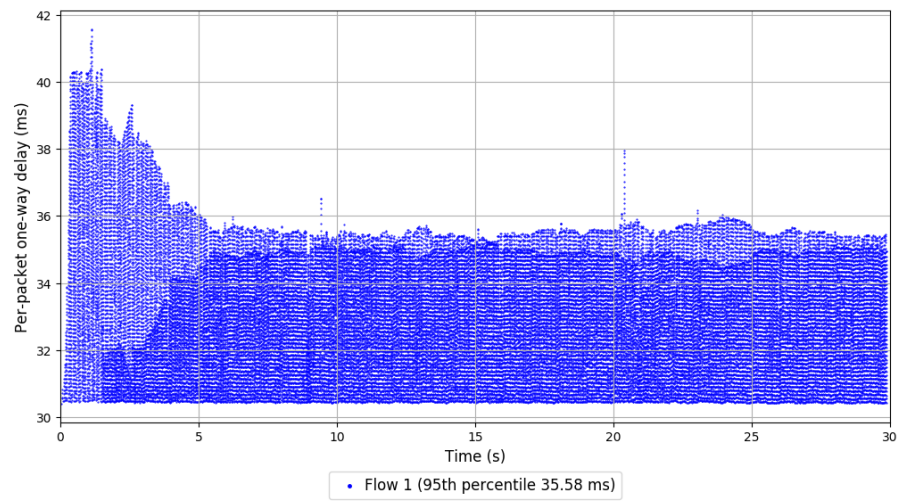
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-01-25 06:30:55
End at: 2018-01-25 06:31:25
Local clock offset: 2.329 ms
Remote clock offset: -17.751 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 38.624 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 38.624 ms
Loss rate: 0.02%
```

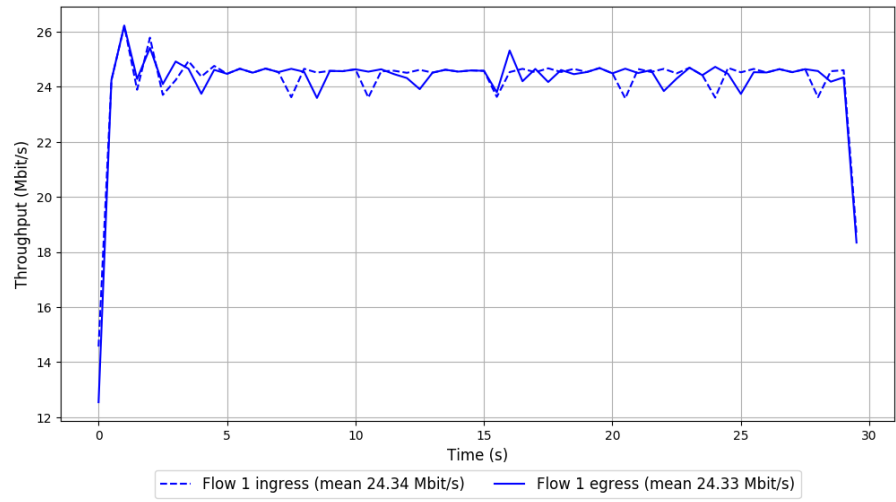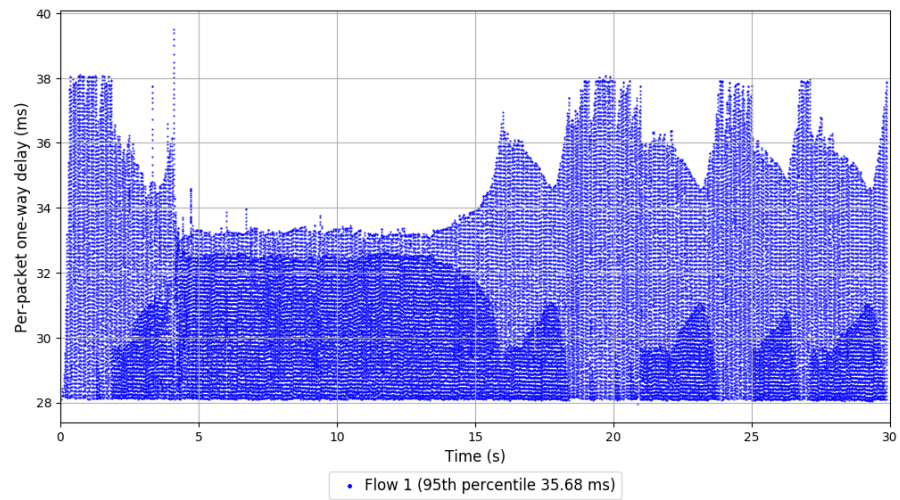# Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 24.50 Mbit/s)   Flow 1 egress (mean 24.51 Mbit/s)

• Flow 1 (95th percentile 38.62 ms)

```
Run 4: Statistics of Sprout

Start at: 2018-01-25 06:49:44
End at: 2018-01-25 06:50:14
Local clock offset: 0.897 ms
Remote clock offset: -16.542 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 37.674 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 24.60 Mbit/s
95th percentile per-packet one-way delay: 37.674 ms
Loss rate: 0.07%
```

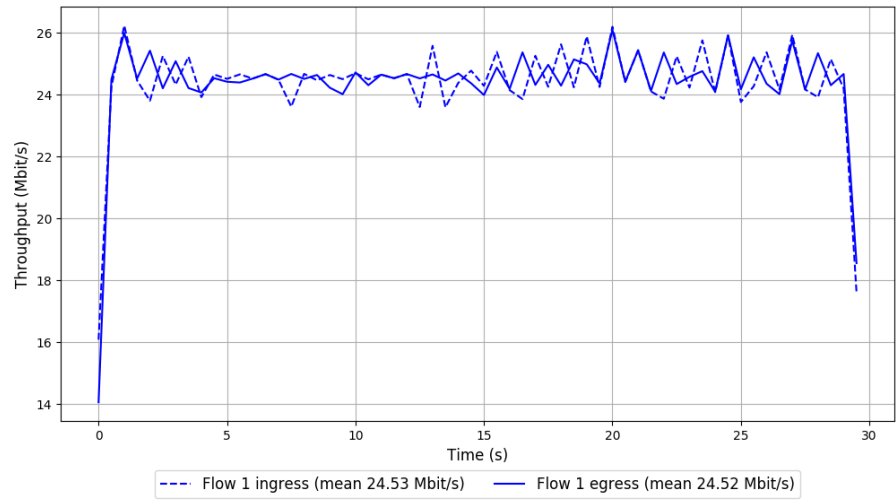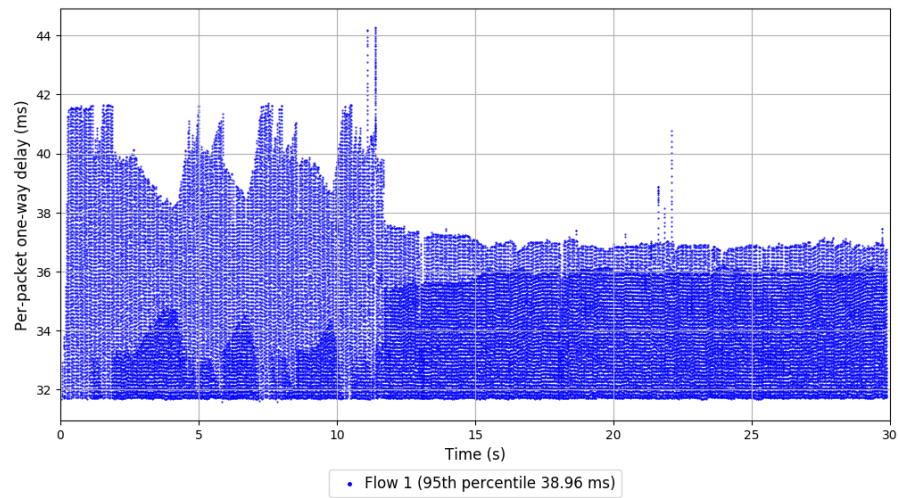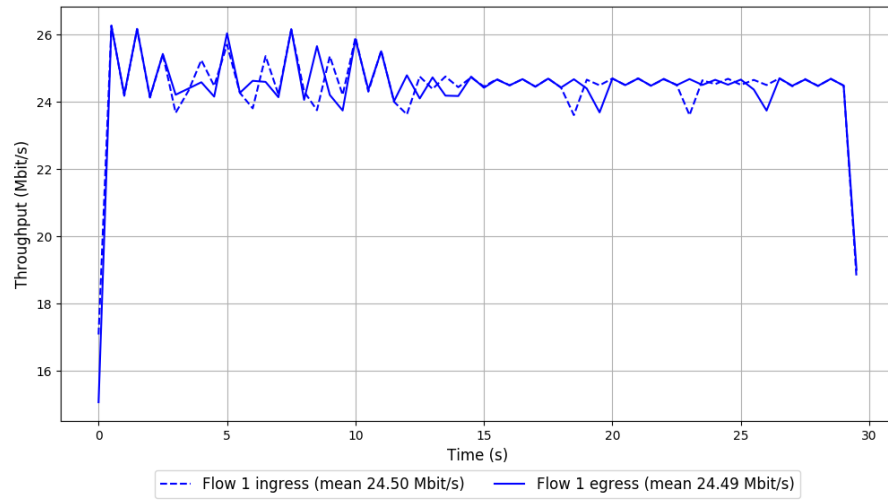Run 4: Report of Sprout — Data Link

Flow 1 ingress (mean 24.61 Mbit/s) — Flow 1 egress (mean 24.60 Mbit/s)

• Flow 1 (95th percentile 37.67 ms)

```
Run 5: Statistics of Sprout

Start at: 2018-01-25 07:08:32
End at: 2018-01-25 07:09:02
Local clock offset: 0.381 ms
Remote clock offset: -17.212 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 35.578 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.33 Mbit/s
95th percentile per-packet one-way delay: 35.578 ms
Loss rate: 0.13%
```

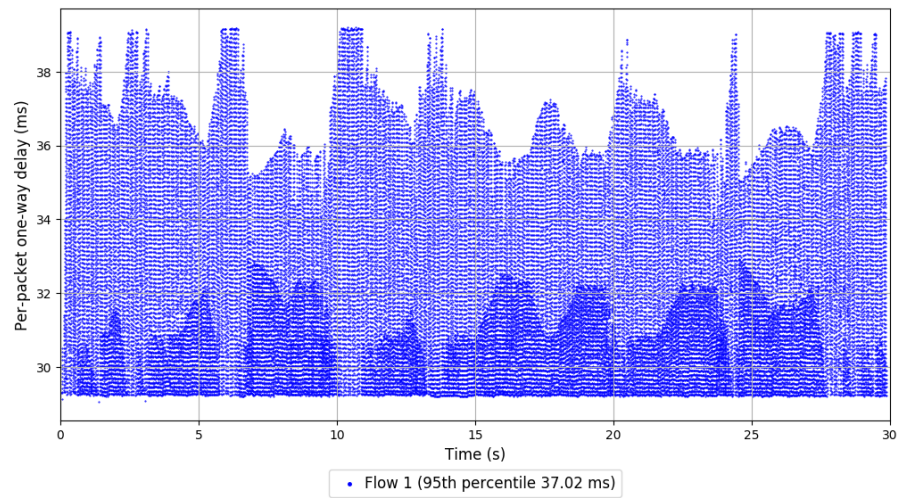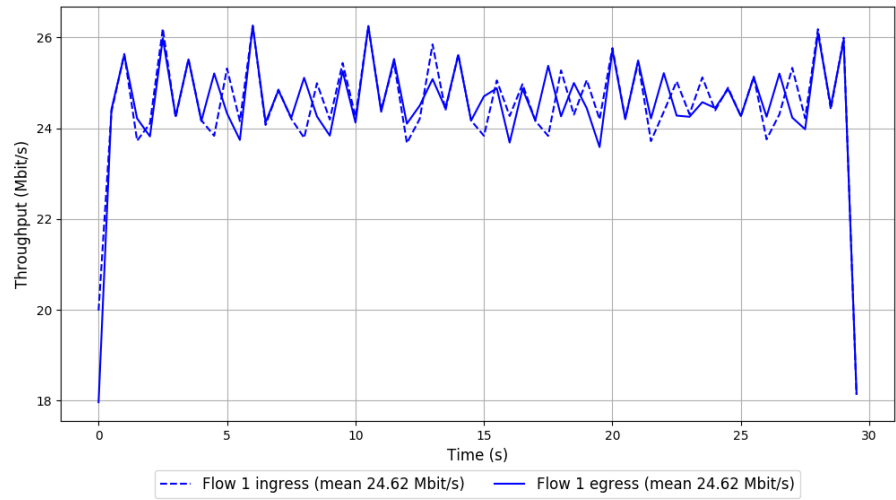Run 5: Report of Sprout — Data Link

```
Run 6: Statistics of Sprout

Start at: 2018-01-25 07:27:20
End at: 2018-01-25 07:27:50
Local clock offset: -0.568 ms
Remote clock offset: -15.877 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 35.684 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 35.684 ms
Loss rate: 0.00%
```
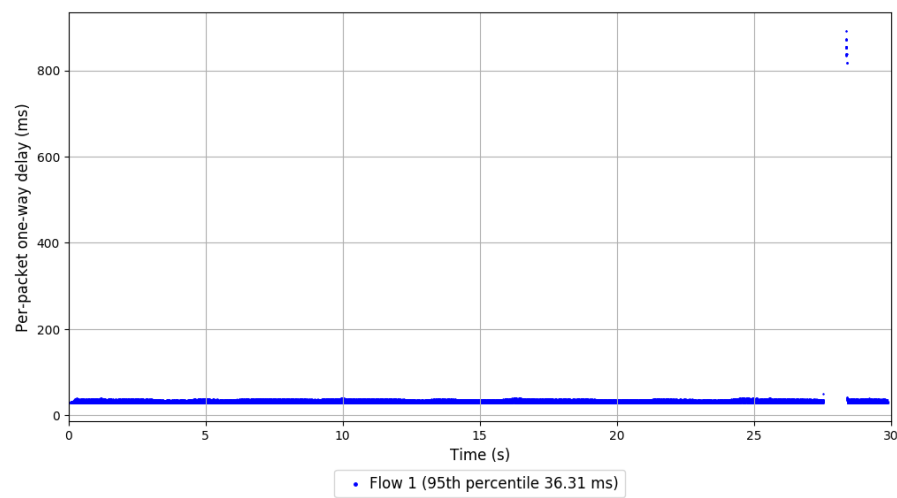
Run 6: Report of Sprout — Data Link

Flow 1 ingress (mean 24.53 Mbit/s) --- Flow 1 egress (mean 24.52 Mbit/s)

• Flow 1 (95th percentile 35.68 ms)

```
Run 7: Statistics of Sprout

Start at: 2018-01-25 07:46:12
End at: 2018-01-25 07:46:42
Local clock offset: 2.922 ms
Remote clock offset: -15.808 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 38.956 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 38.956 ms
Loss rate: 0.12%
```

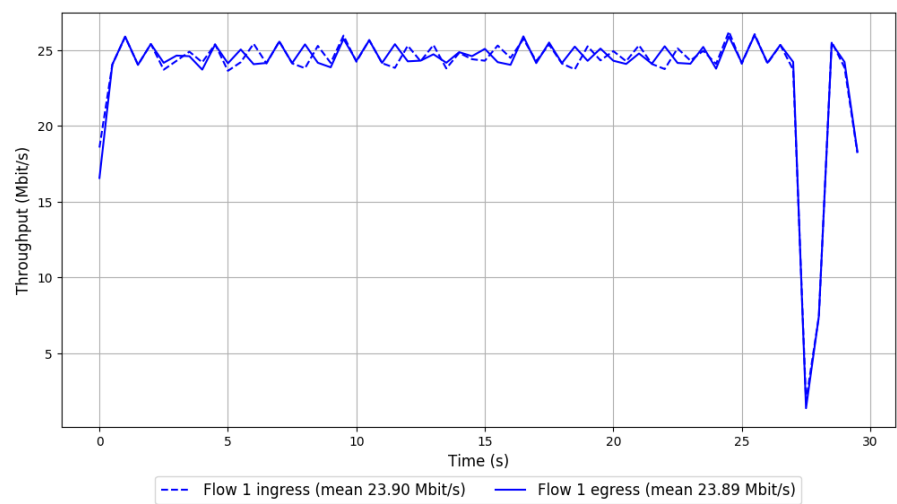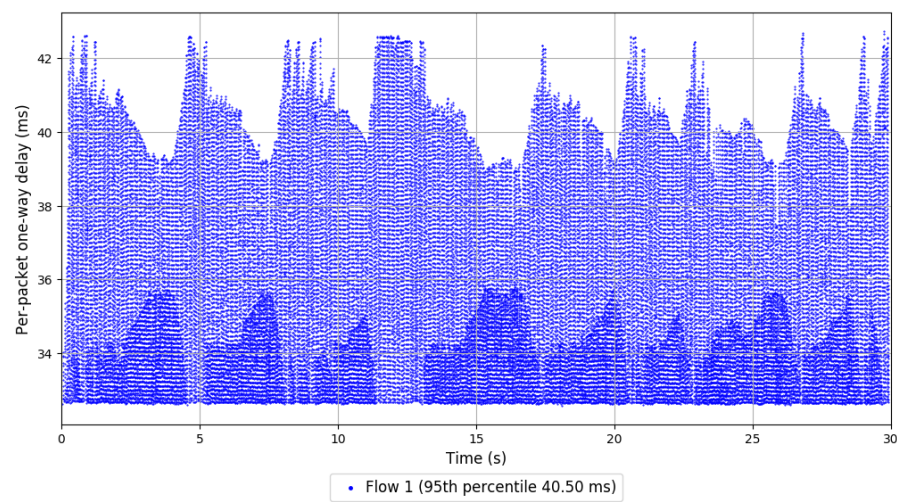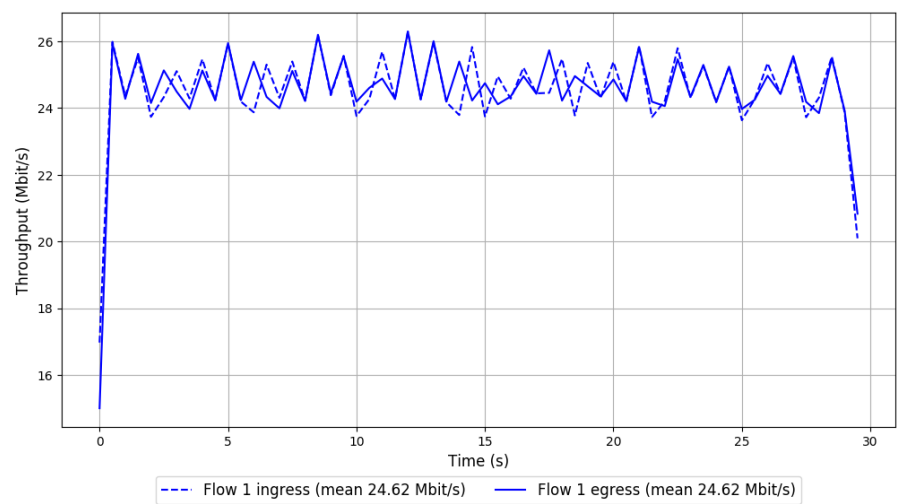## Run 7: Report of Sprout — Data Link

Flow 1 ingress (mean 24.50 Mbit/s)   Flow 1 egress (mean 24.49 Mbit/s)

Flow 1 (95th percentile 38.96 ms)

157

```
Run 8: Statistics of Sprout

Start at: 2018-01-25 08:05:03
End at: 2018-01-25 08:05:33
Local clock offset: -0.756 ms
Remote clock offset: -17.416 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 37.020 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 37.020 ms
Loss rate: 0.13%
```

Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 24.62 Mbit/s) ----   Flow 1 egress (mean 24.62 Mbit/s) ——

• Flow 1 (95th percentile 37.02 ms)

```
Run 9: Statistics of Sprout

Start at: 2018-01-25 08:24:02
End at: 2018-01-25 08:24:32
Local clock offset: 0.081 ms
Remote clock offset: -14.904 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 36.309 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 36.309 ms
Loss rate: 0.11%
```

Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2018-01-25 08:42:36
End at: 2018-01-25 08:43:06
Local clock offset: 2.365 ms
Remote clock offset: -16.652 ms


# Below is generated by plot.py at 2018-01-25 12:06:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 40.497 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 40.497 ms
Loss rate: 0.08%
```

Run 10: Report of Sprout — Data Link

Flow 1 ingress (mean 24.62 Mbit/s)   Flow 1 egress (mean 24.62 Mbit/s)

• Flow 1 (95th percentile 40.50 ms)

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

Start at: 2018-01-25 05:49:46
End at: 2018-01-25 05:50:16
Local clock offset: 0.385 ms
Remote clock offset: -20.361 ms
```

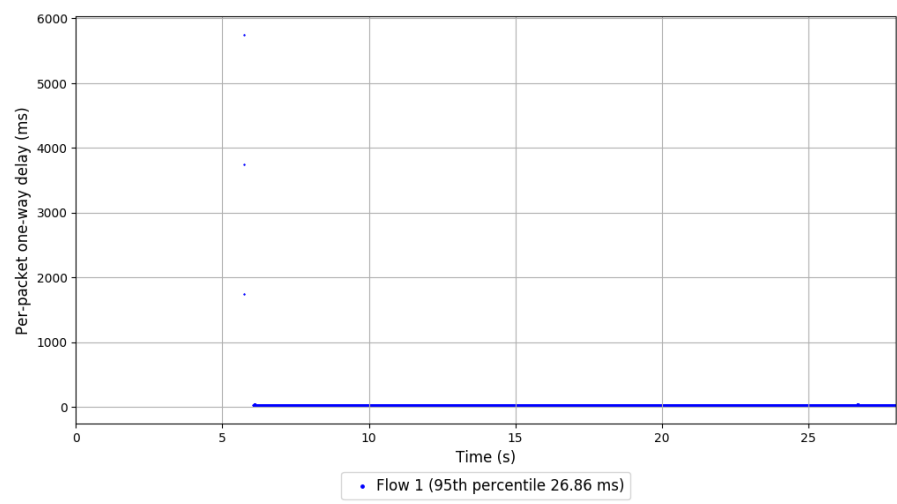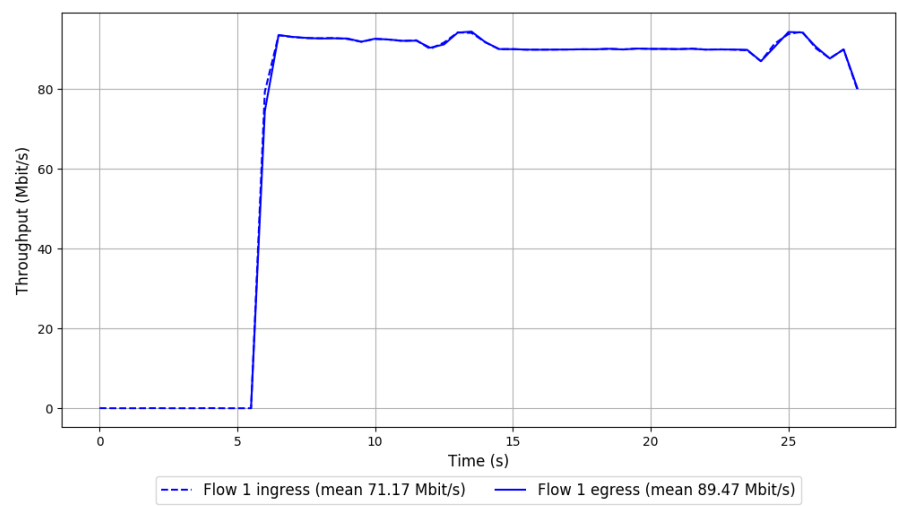# Run 1: Report of TaoVA-100x — Data Link

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

Start at: 2018-01-25 06:08:51
End at: 2018-01-25 06:09:21
Local clock offset: -0.022 ms
Remote clock offset: -19.778 ms


# Below is generated by plot.py at 2018-01-25 12:08:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 31.676 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.57 Mbit/s
95th percentile per-packet one-way delay: 31.676 ms
Loss rate: 0.08%
```

Run 2: Report of TaoVA-100x — Data Link
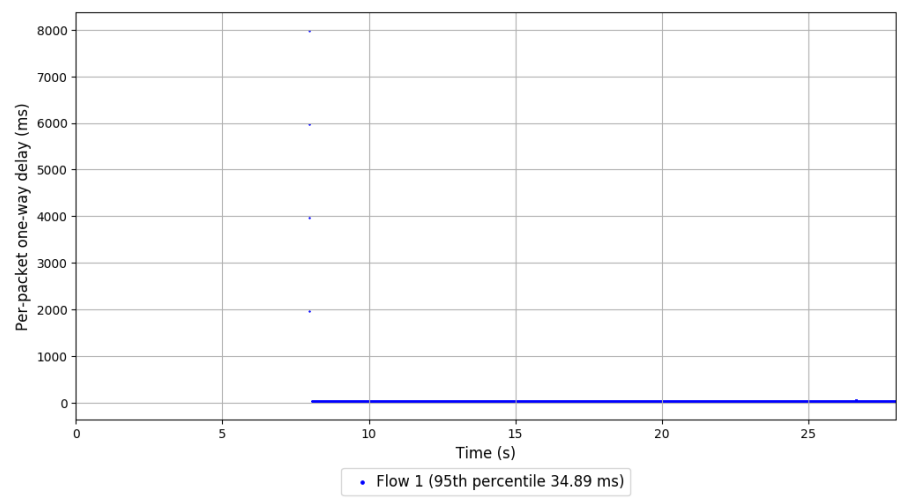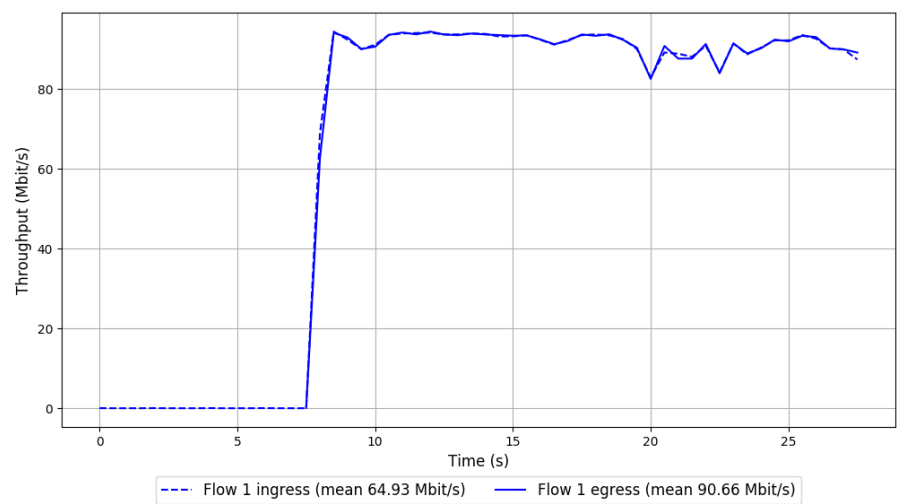
```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-25 06:27:22
End at: 2018-01-25 06:27:52
Local clock offset: 0.04 ms
Remote clock offset: -17.365 ms
```

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

Flow 1 ingress (mean 56.38 Mbit/s)   Flow 1 egress (mean 86.55 Mbit/s)
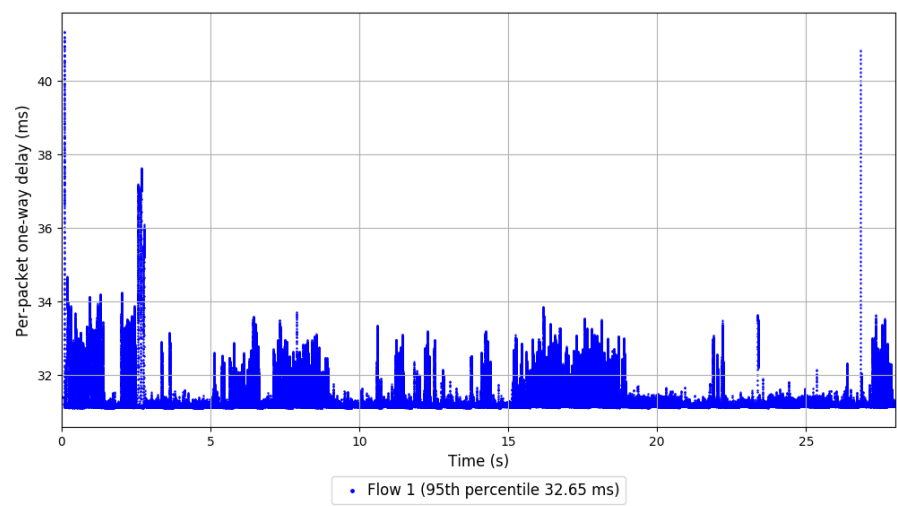

Flow 1 (95th percentile 33.12 ms)

169

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

Start at: 2018-01-25 06:46:07
End at: 2018-01-25 06:46:37
Local clock offset: -3.174 ms
Remote clock offset: -15.842 ms
```

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

Flow 1 ingress (mean 71.17 Mbit/s) — — — Flow 1 egress (mean 89.47 Mbit/s)

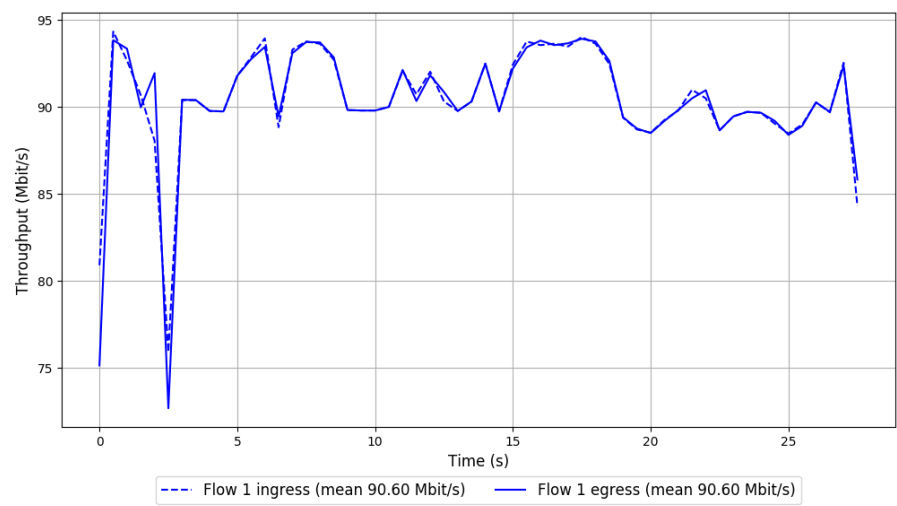Flow 1 (95th percentile 26.86 ms)

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

Start at: 2018-01-25 07:05:03
End at: 2018-01-25 07:05:33
Local clock offset: 1.332 ms
Remote clock offset: -16.084 ms
```

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

Flow 1 ingress (mean 58.87 Mbit/s)   Flow 1 egress (mean 84.91 Mbit/s)
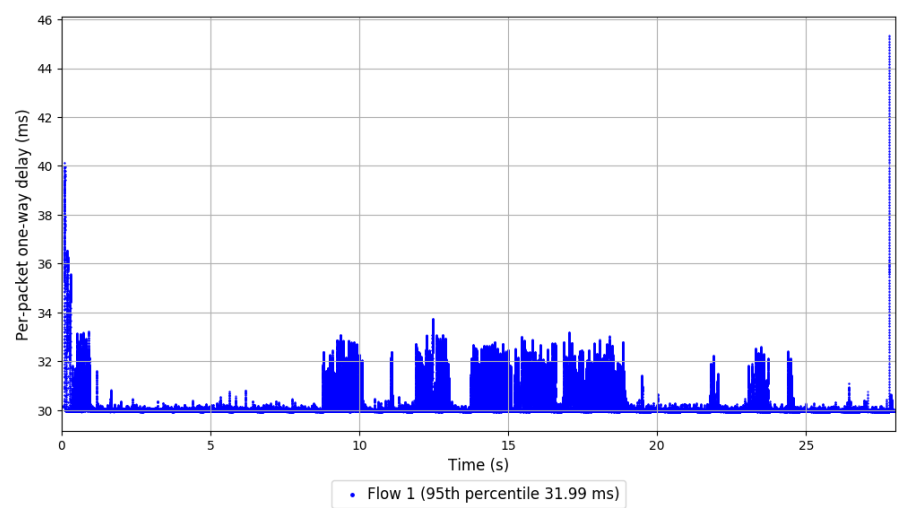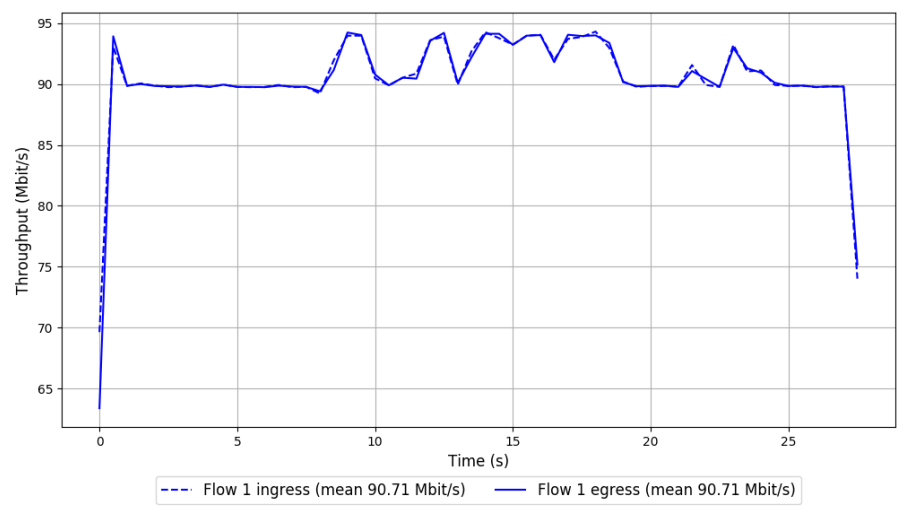

Flow 1 (95th percentile 33.26 ms)

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

Start at: 2018-01-25 07:23:44
End at: 2018-01-25 07:24:14
Local clock offset: 2.307 ms
Remote clock offset: -17.745 ms
```

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

Flow 1 ingress (mean 64.93 Mbit/s) --- Flow 1 egress (mean 90.66 Mbit/s)

Flow 1 (95th percentile 34.89 ms)

175

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

Start at: 2018-01-25 07:42:30
End at: 2018-01-25 07:43:01
Local clock offset: 3.324 ms
Remote clock offset: -15.015 ms


# Below is generated by plot.py at 2018-01-25 12:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 32.651 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 90.60 Mbit/s
95th percentile per-packet one-way delay: 32.651 ms
Loss rate: 0.08%
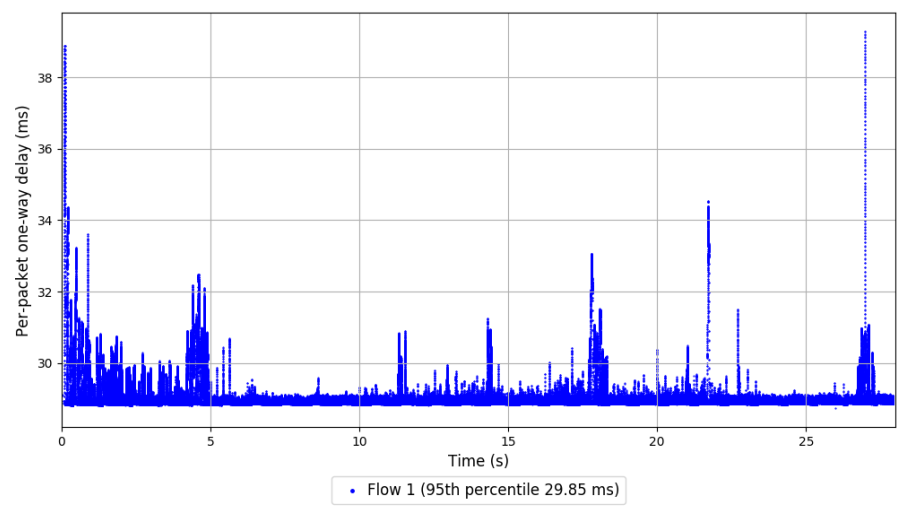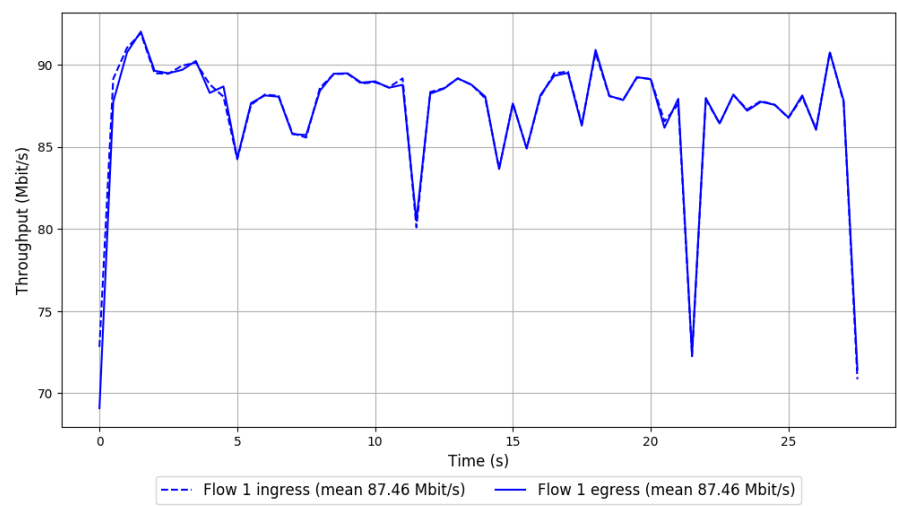```

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

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

Start at: 2018-01-25 08:01:22
End at: 2018-01-25 08:01:52
Local clock offset: -0.08 ms
Remote clock offset: -17.326 ms


# Below is generated by plot.py at 2018-01-25 12:09:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 31.990 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 31.990 ms
Loss rate: 0.08%
```

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

179

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

Start at: 2018-01-25 08:20:31
End at: 2018-01-25 08:21:01
Local clock offset: -1.91 ms
Remote clock offset: -17.139 ms

# Below is generated by plot.py at 2018-01-25 12:10:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.46 Mbit/s
95th percentile per-packet one-way delay: 29.851 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 87.46 Mbit/s
95th percentile per-packet one-way delay: 29.851 ms
Loss rate: 0.09%
```
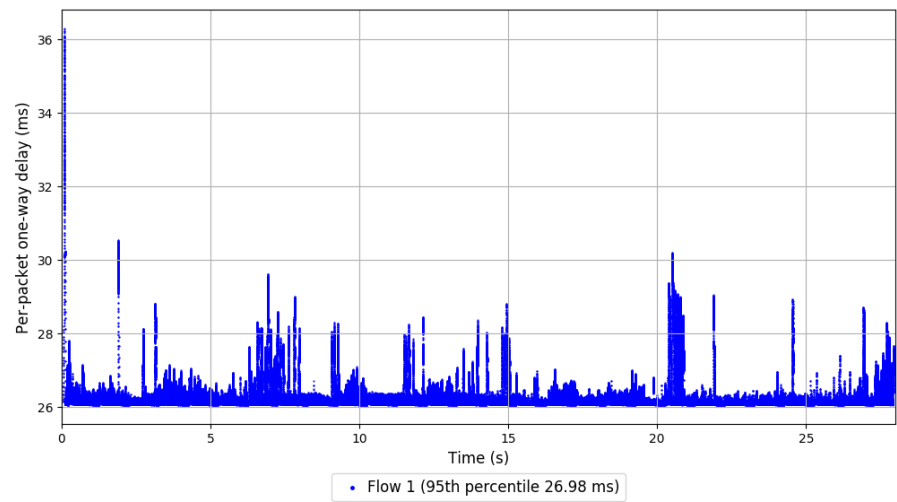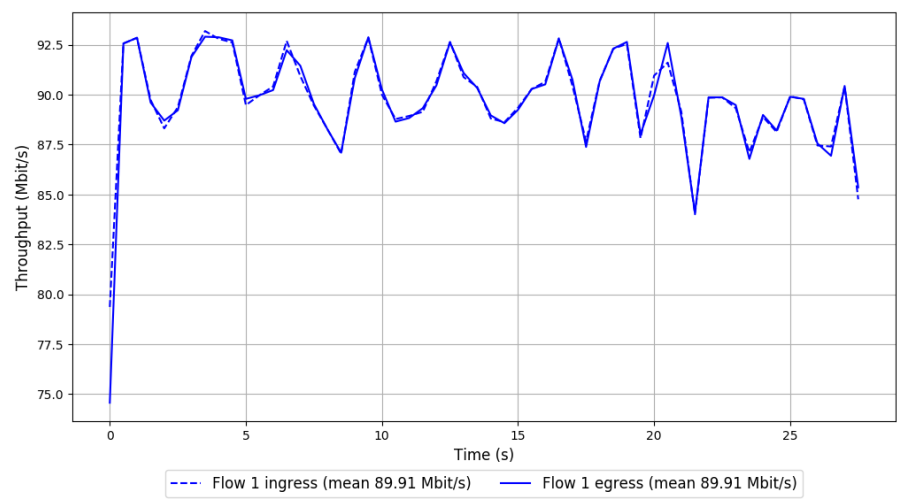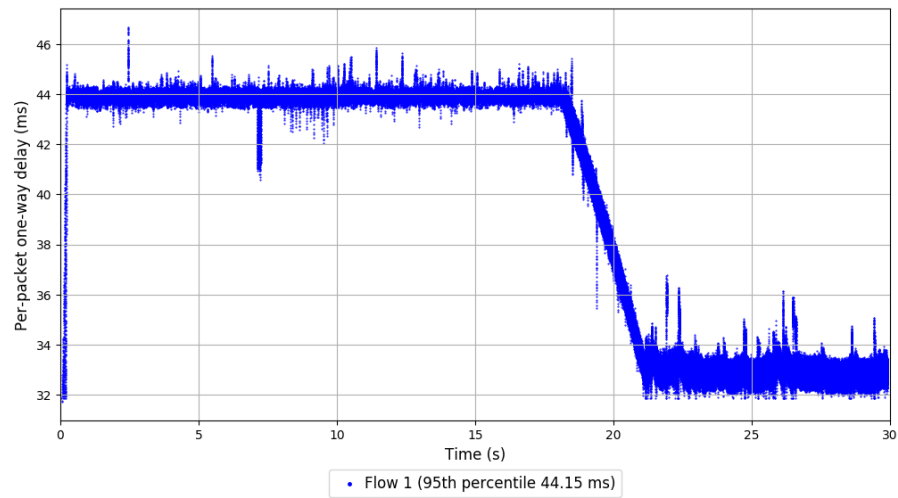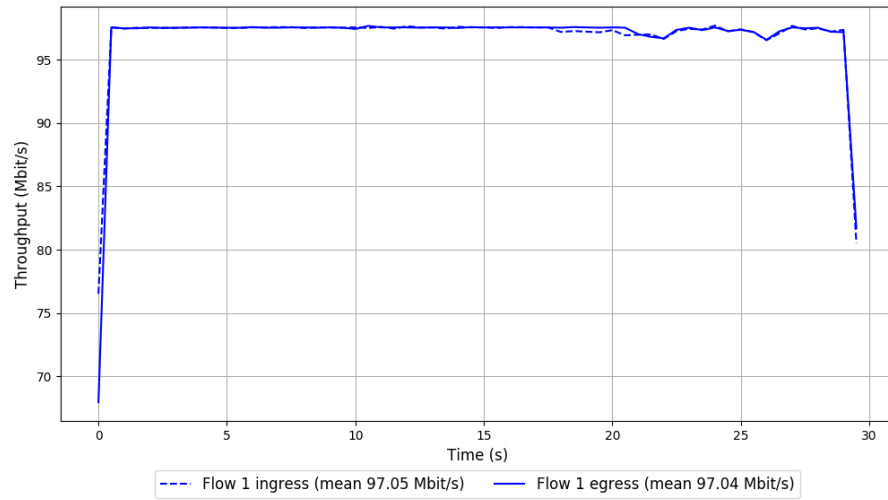
Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 87.46 Mbit/s)   Flow 1 egress (mean 87.46 Mbit/s)

• Flow 1 (95th percentile 29.85 ms)

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

Start at: 2018-01-25 08:39:05
End at: 2018-01-25 08:39:35
Local clock offset: -2.88 ms
Remote clock offset: -15.309 ms


# Below is generated by plot.py at 2018-01-25 12:10:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 26.982 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 89.91 Mbit/s
95th percentile per-packet one-way delay: 26.982 ms
Loss rate: 0.09%
```
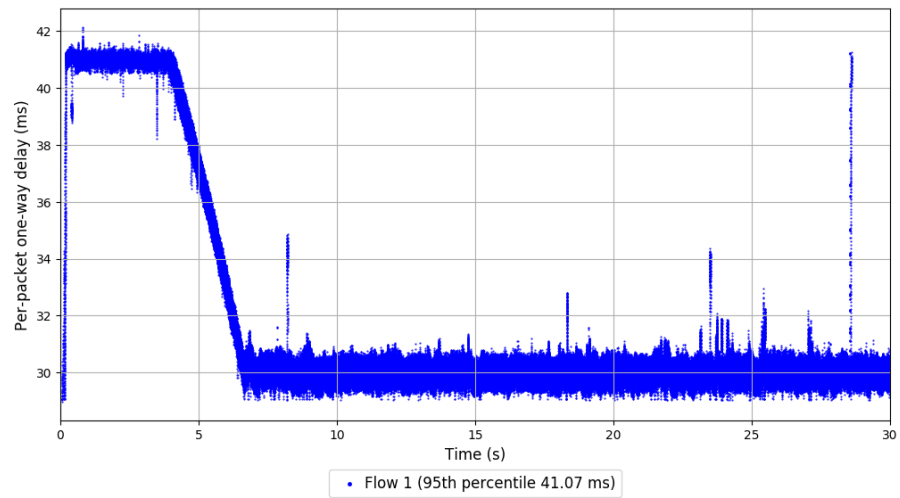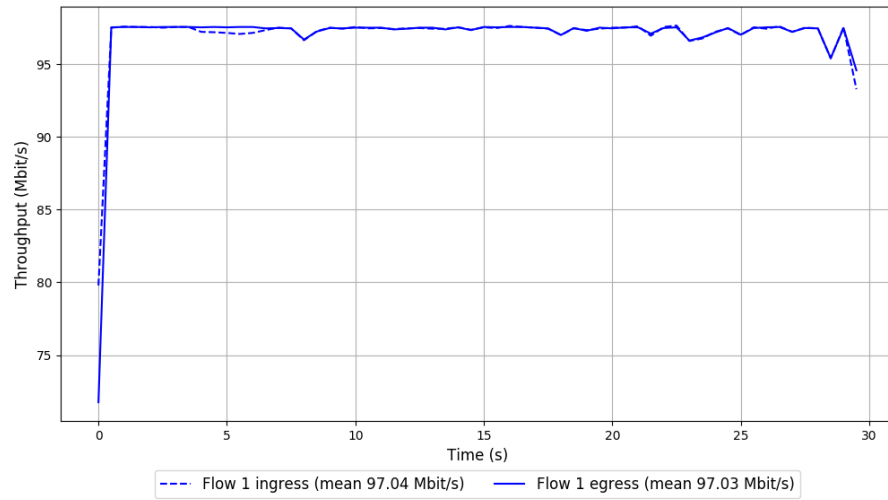
Run 10: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2018-01-25 05:57:58
End at: 2018-01-25 05:58:28
Local clock offset: -0.795 ms
Remote clock offset: -20.085 ms


# Below is generated by plot.py at 2018-01-25 12:10:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 44.150 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 97.04 Mbit/s
95th percentile per-packet one-way delay: 44.150 ms
Loss rate: 0.09%
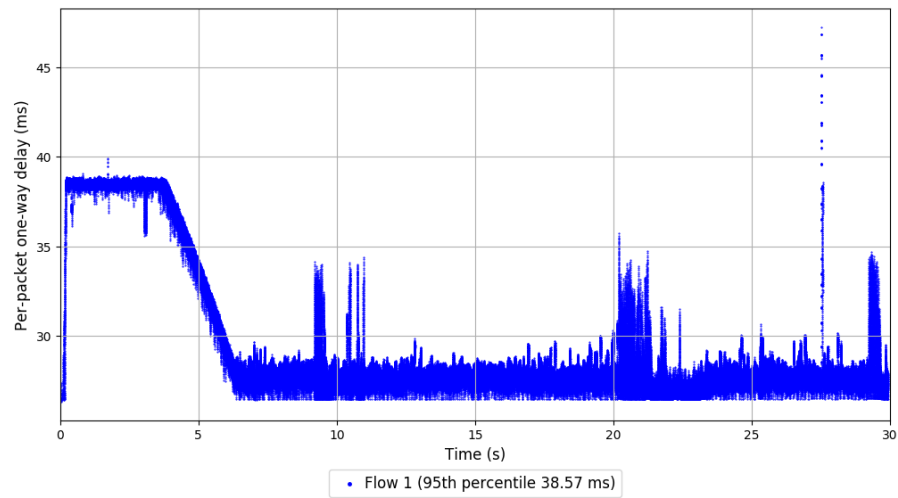```

Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2018-01-25 06:16:54
End at: 2018-01-25 06:17:24
Local clock offset: 1.142 ms
Remote clock offset: -18.192 ms


# Below is generated by plot.py at 2018-01-25 12:10:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 41.068 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 97.03 Mbit/s
95th percentile per-packet one-way delay: 41.068 ms
Loss rate: 0.08%
```

Run 2: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 97.04 Mbit/s) ----- Flow 1 egress (mean 97.03 Mbit/s)
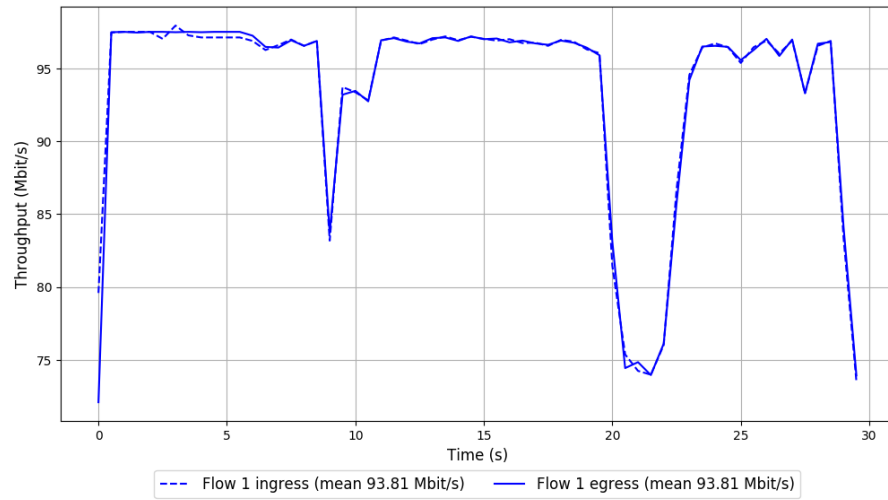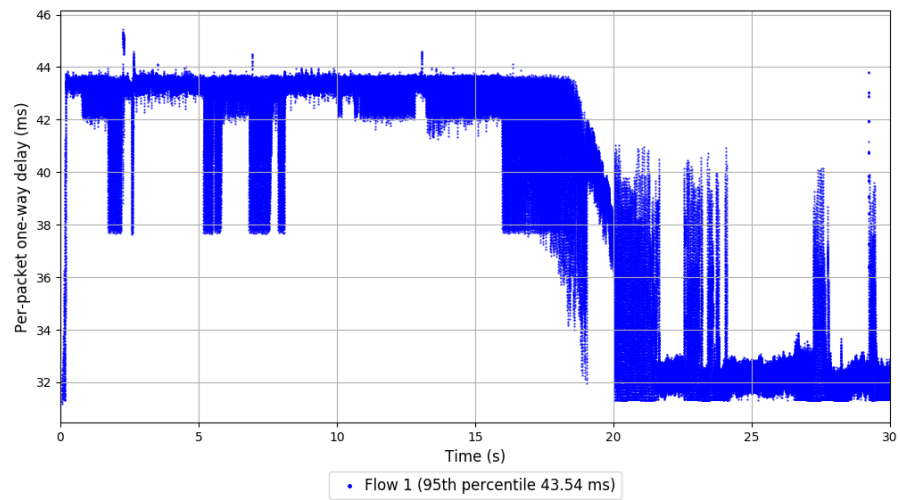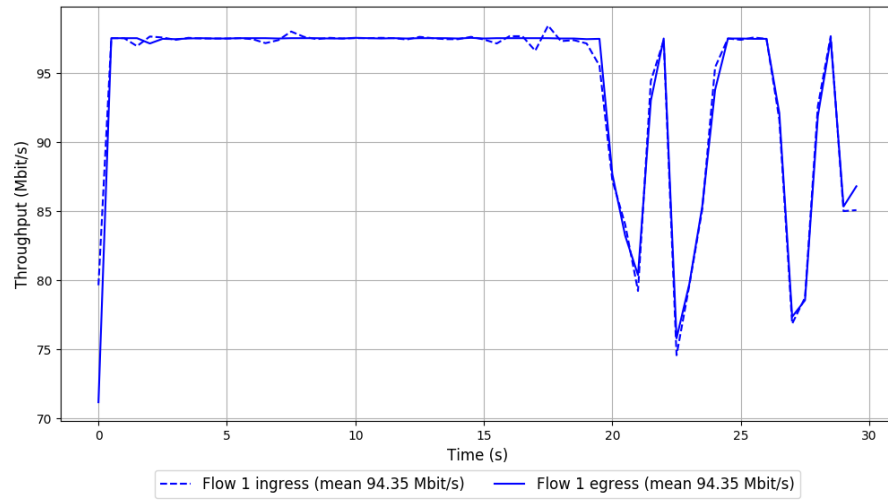

Flow 1 (95th percentile 41.07 ms)

```
Run 3: Statistics of TCP Vegas

Start at: 2018-01-25 06:35:32
End at: 2018-01-25 06:36:02
Local clock offset: -2.049 ms
Remote clock offset: -17.161 ms


# Below is generated by plot.py at 2018-01-25 12:10:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 38.567 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 38.567 ms
Loss rate: 0.07%
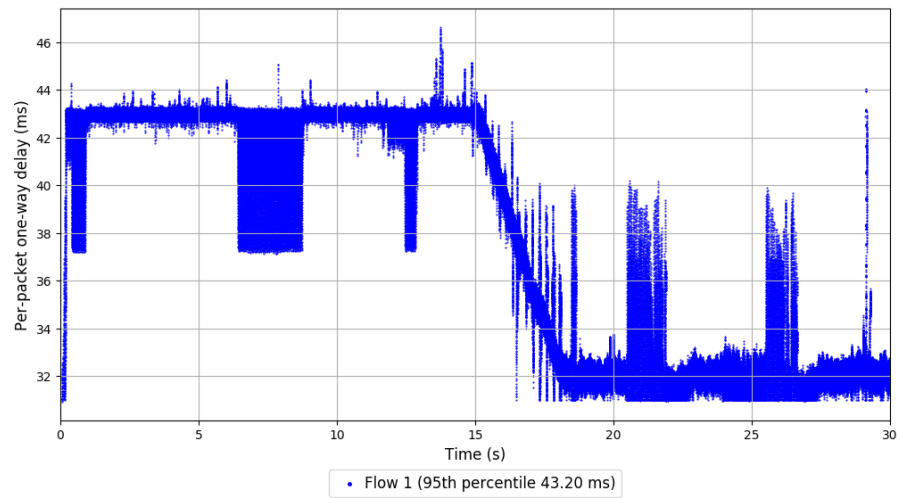```

Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2018-01-25 06:54:19
End at: 2018-01-25 06:54:49
Local clock offset: 0.926 ms
Remote clock offset: -17.764 ms

Below is generated by plot.py at 2018-01-25 12:10:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.35 Mbit/s
95th percentile per-packet one-way delay: 43.543 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.35 Mbit/s
95th percentile per-packet one-way delay: 43.543 ms
Loss rate: 0.08%
```
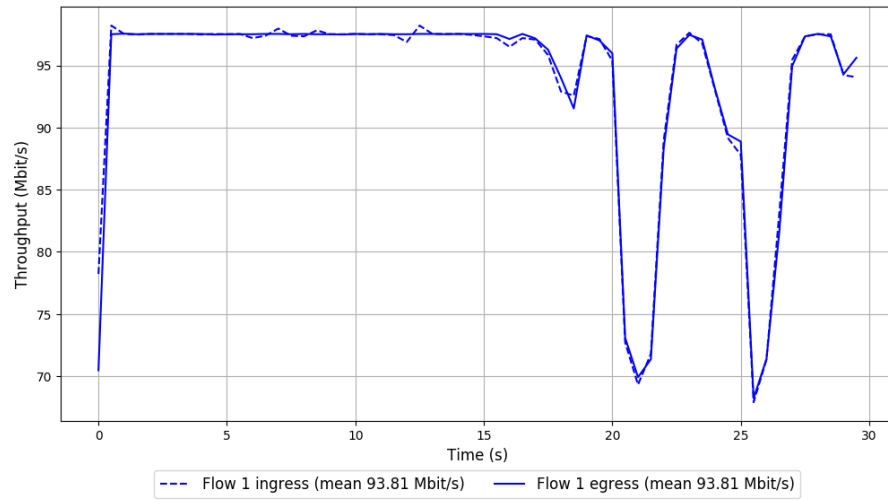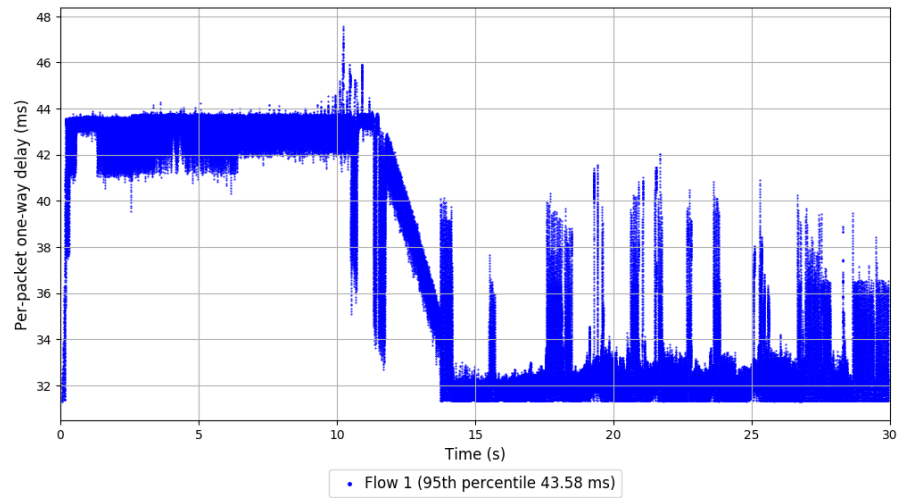
Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2018-01-25 07:13:08
End at: 2018-01-25 07:13:38
Local clock offset: 1.478 ms
Remote clock offset: -16.763 ms

Below is generated by plot.py at 2018-01-25 12:10:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 43.199 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 43.199 ms
Loss rate: 0.08%
```
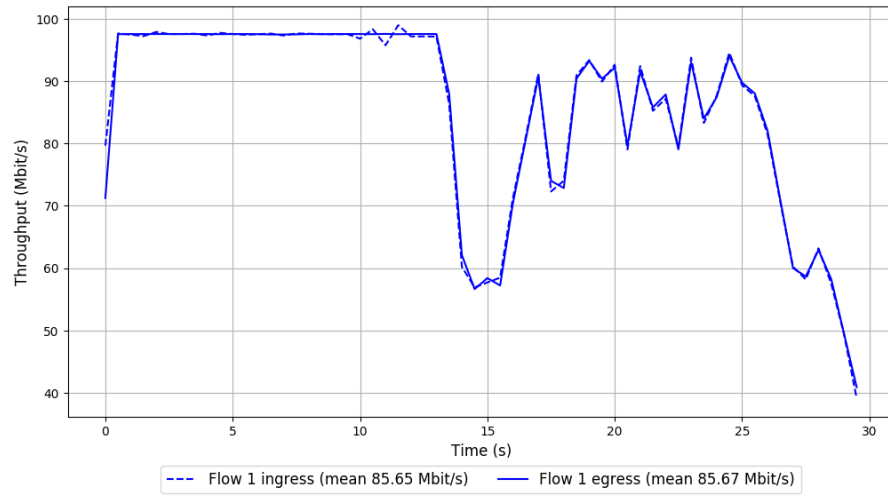
## Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2018-01-25 07:31:55
End at: 2018-01-25 07:32:25
Local clock offset: 2.386 ms
Remote clock offset: -16.705 ms


# Below is generated by plot.py at 2018-01-25 12:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 43.576 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 43.576 ms
Loss rate: 0.04%
```

Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 85.65 Mbit/s) ----- Flow 1 egress (mean 85.67 Mbit/s)
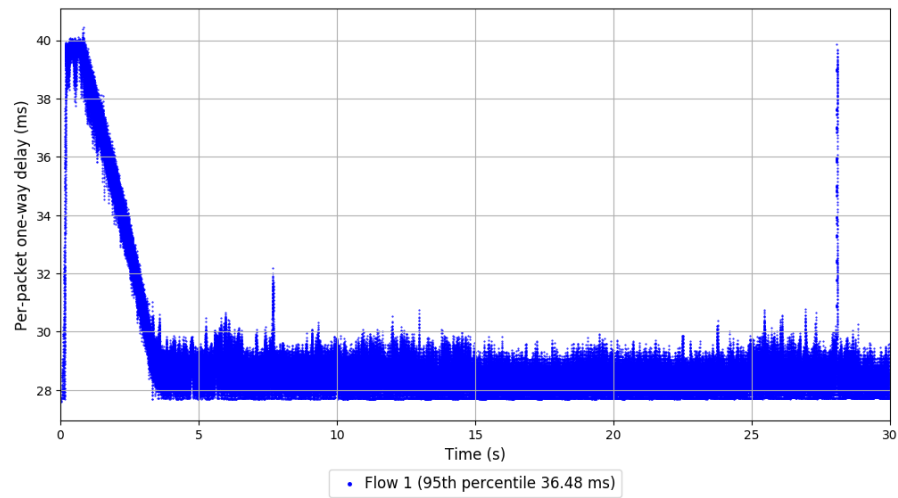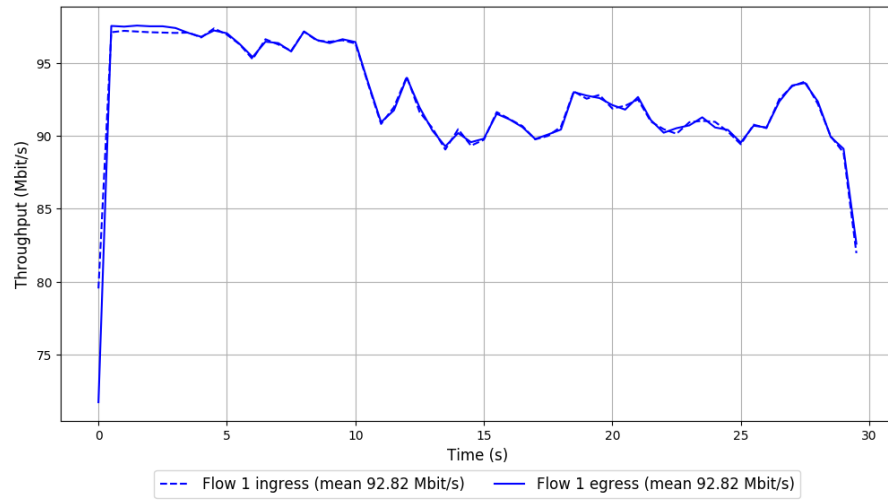

Flow 1 (95th percentile 43.58 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-01-25 07:50:48
End at: 2018-01-25 07:51:18
Local clock offset: -0.035 ms
Remote clock offset: -14.628 ms


# Below is generated by plot.py at 2018-01-25 12:10:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 36.478 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 36.478 ms
Loss rate: 0.08%
```

Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 92.82 Mbit/s) --- Flow 1 egress (mean 92.82 Mbit/s)
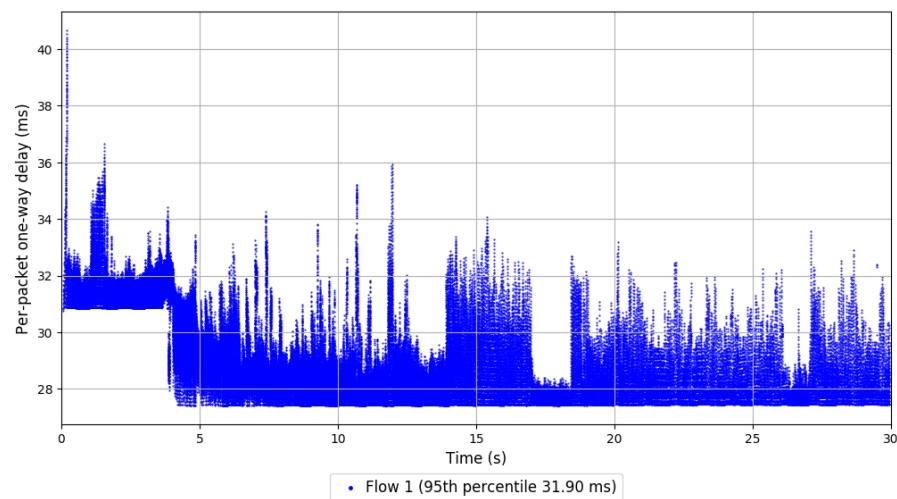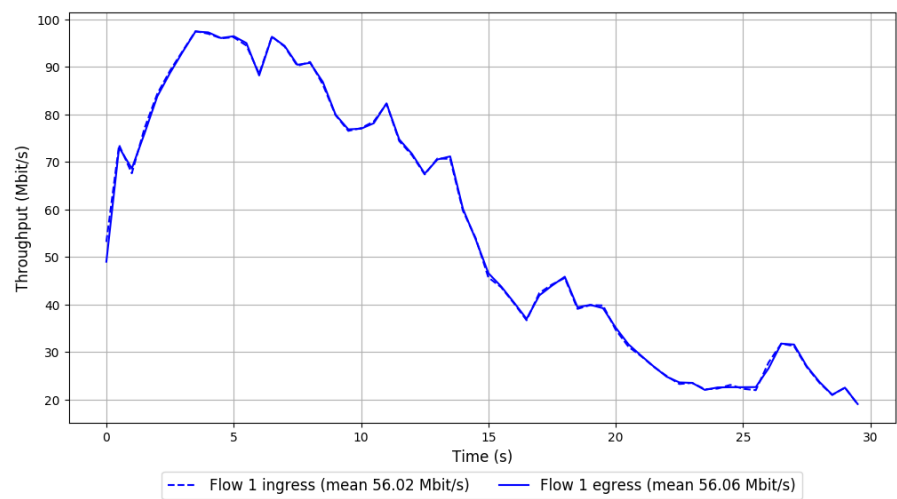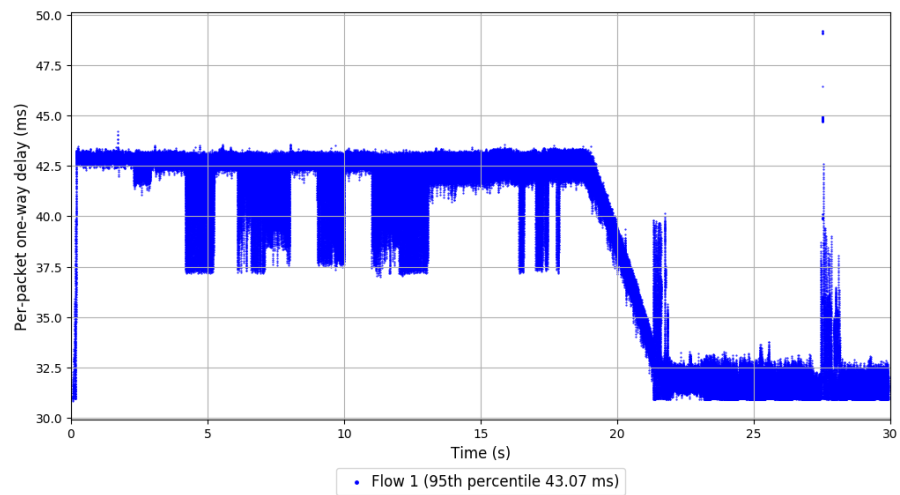

Flow 1 (95th percentile 36.48 ms)

```
Run 8: Statistics of TCP Vegas

Start at: 2018-01-25 08:09:33
End at: 2018-01-25 08:10:03
Local clock offset: -1.531 ms
Remote clock offset: -16.444 ms


# Below is generated by plot.py at 2018-01-25 12:10:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.06 Mbit/s
95th percentile per-packet one-way delay: 31.902 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 56.06 Mbit/s
95th percentile per-packet one-way delay: 31.902 ms
Loss rate: 0.03%
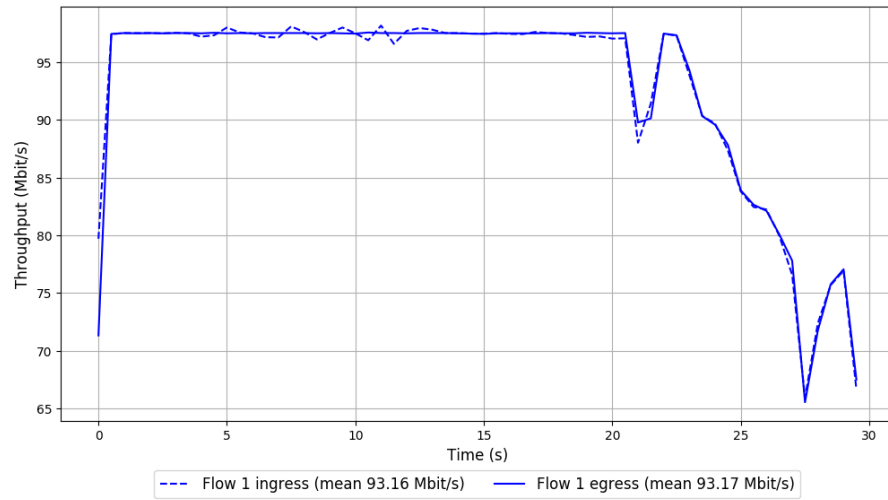```

Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2018-01-25 08:28:34
End at: 2018-01-25 08:29:04
Local clock offset: 2.188 ms
Remote clock offset: -14.978 ms


# Below is generated by plot.py at 2018-01-25 12:11:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.17 Mbit/s
95th percentile per-packet one-way delay: 43.068 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 93.17 Mbit/s
95th percentile per-packet one-way delay: 43.068 ms
Loss rate: 0.07%
```

Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 93.16 Mbit/s) --- Flow 1 egress (mean 93.17 Mbit/s)
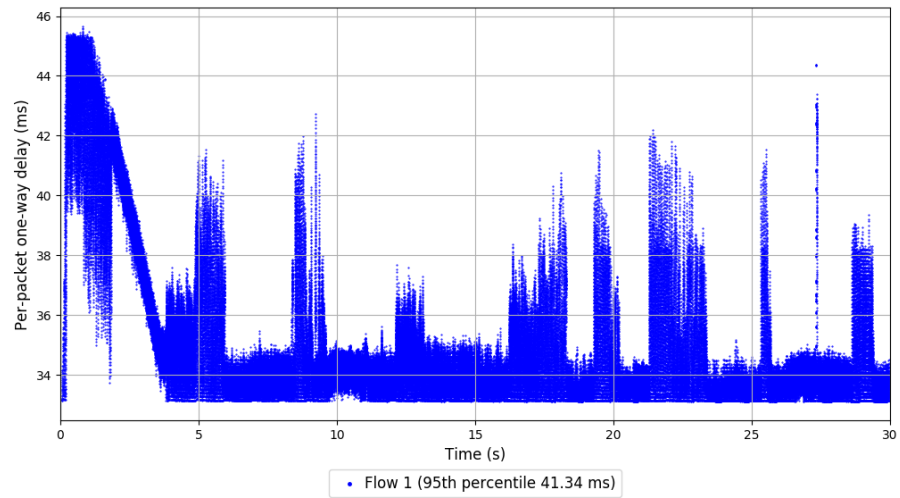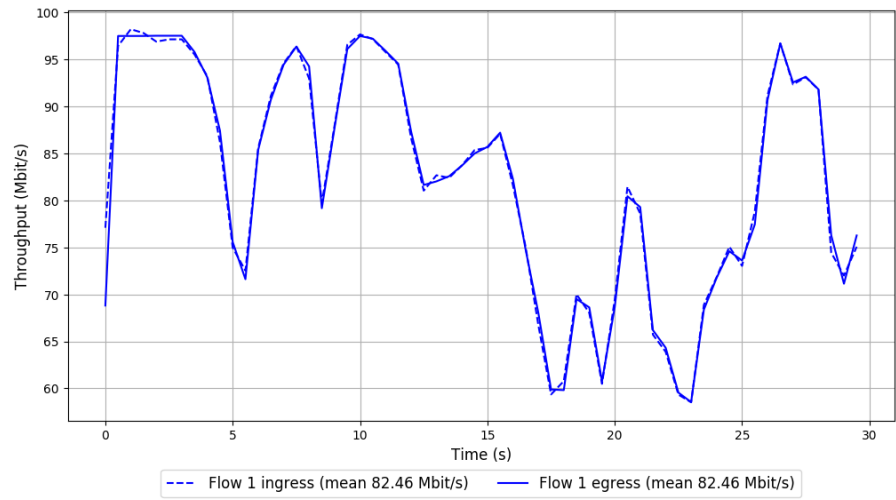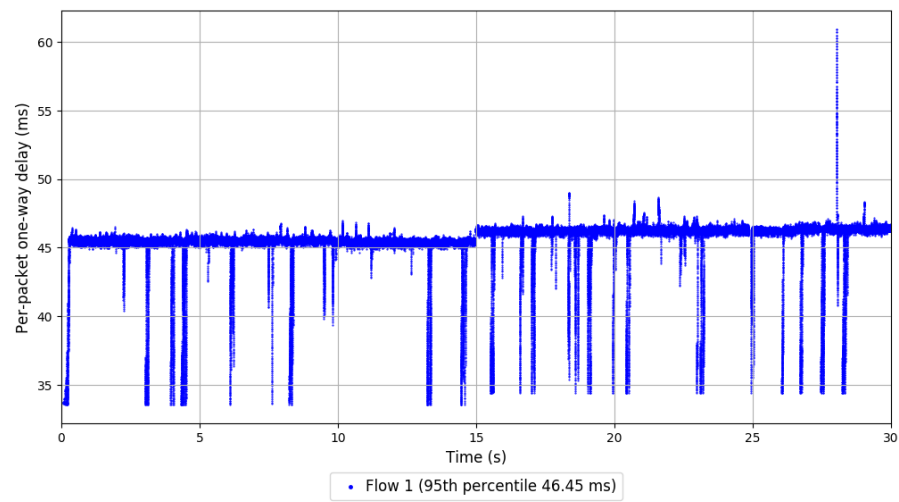

Flow 1 (95th percentile 43.07 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2018-01-25 08:47:11
End at: 2018-01-25 08:47:41
Local clock offset: 2.678 ms
Remote clock offset: -17.066 ms


# Below is generated by plot.py at 2018-01-25 12:11:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.46 Mbit/s
95th percentile per-packet one-way delay: 41.340 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 82.46 Mbit/s
95th percentile per-packet one-way delay: 41.340 ms
Loss rate: 0.08%
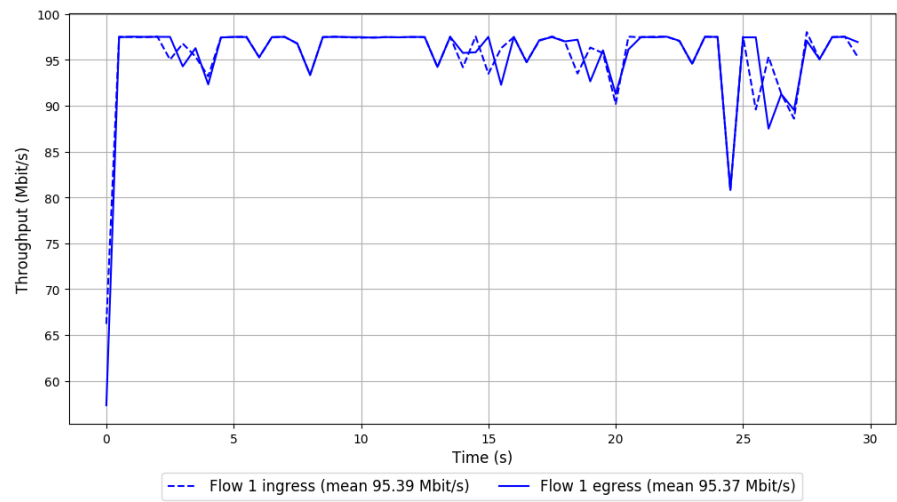```

Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2018-01-25 05:56:43
End at: 2018-01-25 05:57:13
Local clock offset: 0.063 ms
Remote clock offset: -21.804 ms


# Below is generated by plot.py at 2018-01-25 12:11:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 46.446 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 46.446 ms
Loss rate: 0.13%
```

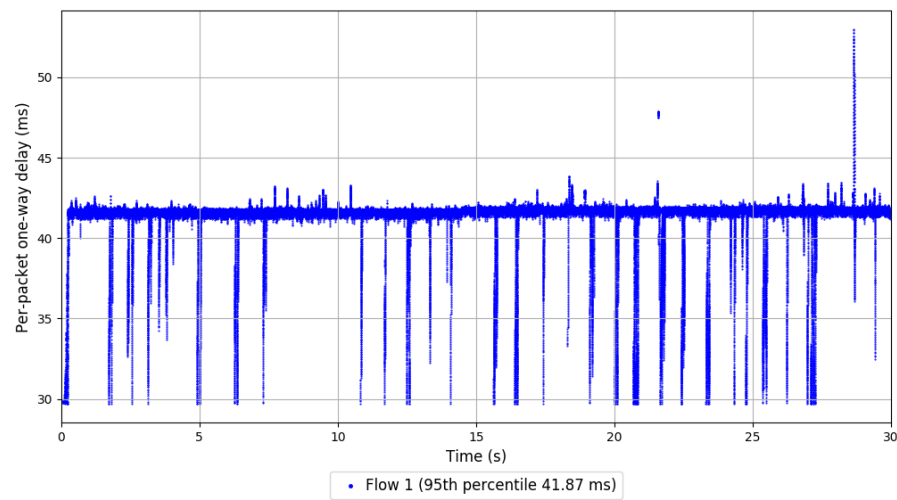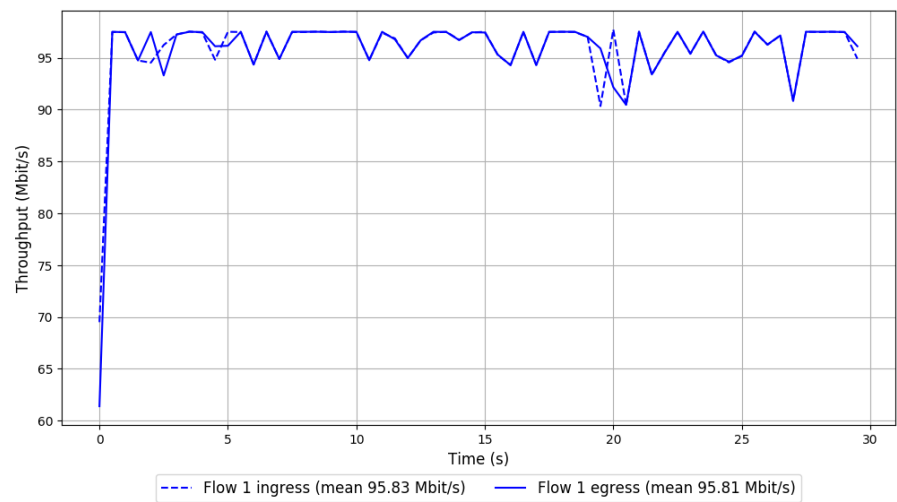Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2018-01-25 06:15:42
End at: 2018-01-25 06:16:12
Local clock offset: 2.025 ms
Remote clock offset: -17.939 ms


# Below is generated by plot.py at 2018-01-25 12:11:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 41.865 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 41.865 ms
Loss rate: 0.12%
```

Run 2: Report of Verus — Data Link

Flow 1 ingress (mean 95.83 Mbit/s)   Flow 1 egress (mean 95.81 Mbit/s)

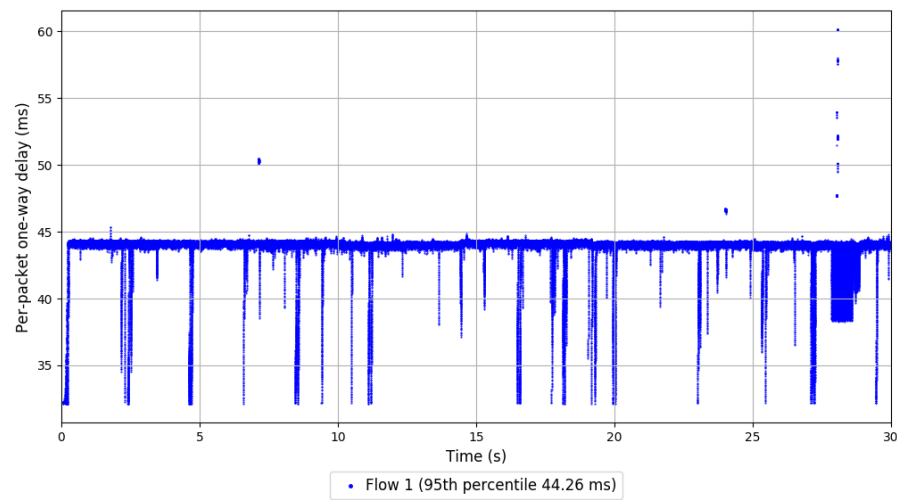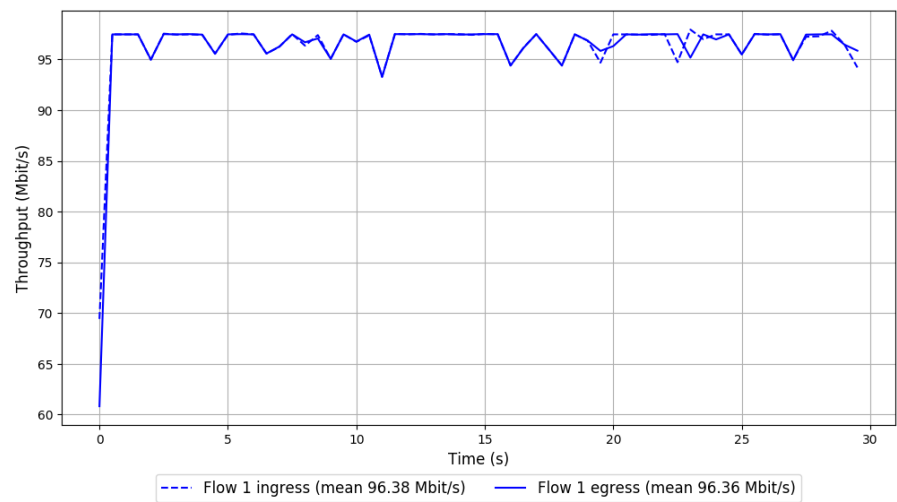Flow 1 (95th percentile 41.87 ms)

```
Run 3: Statistics of Verus

Start at: 2018-01-25 06:34:20
End at: 2018-01-25 06:34:50
Local clock offset: 3.121 ms
Remote clock offset: -17.775 ms


# Below is generated by plot.py at 2018-01-25 12:11:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 44.264 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 44.264 ms
Loss rate: 0.12%
```

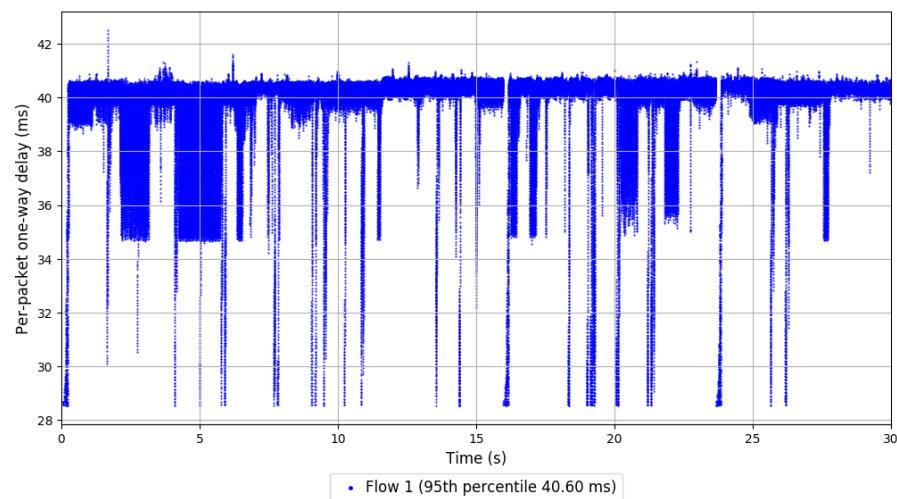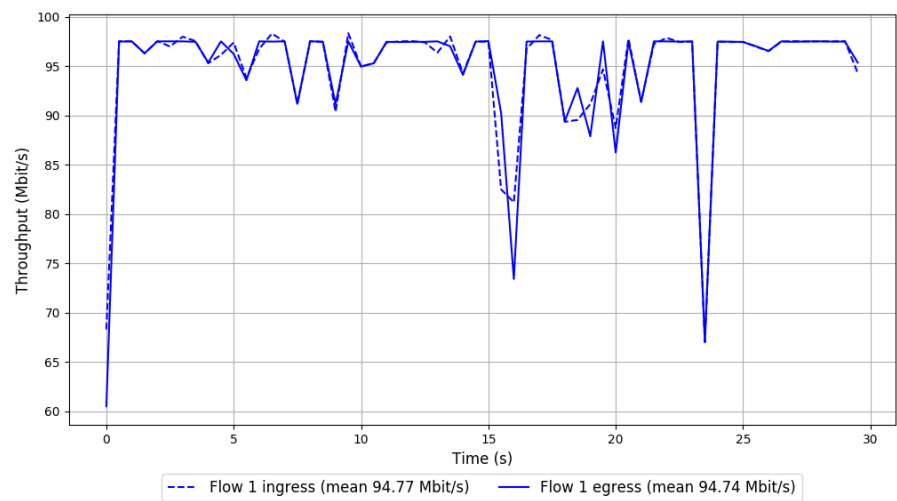# Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-01-25 06:53:05
End at: 2018-01-25 06:53:35
Local clock offset: -0.036 ms
Remote clock offset: -16.006 ms


# Below is generated by plot.py at 2018-01-25 12:11:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 40.596 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 94.74 Mbit/s
95th percentile per-packet one-way delay: 40.596 ms
Loss rate: 0.12%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 94.77 Mbit/s) ----   Flow 1 egress (mean 94.74 Mbit/s) ——

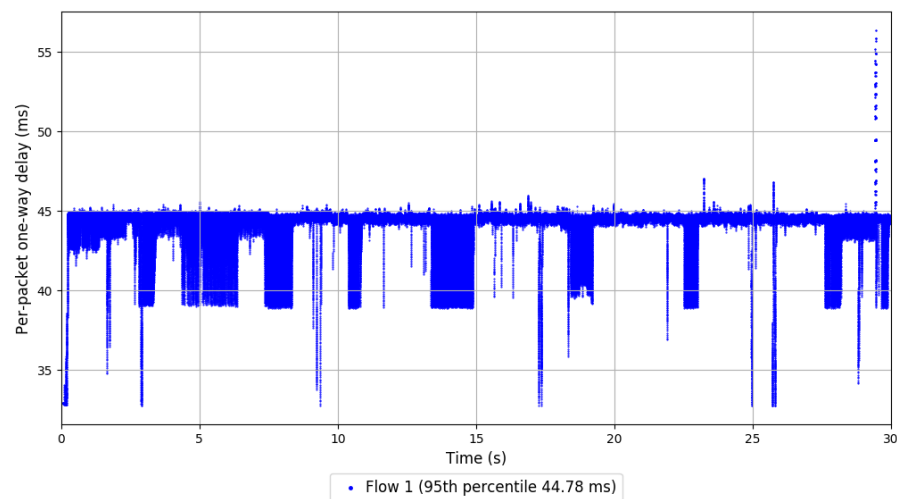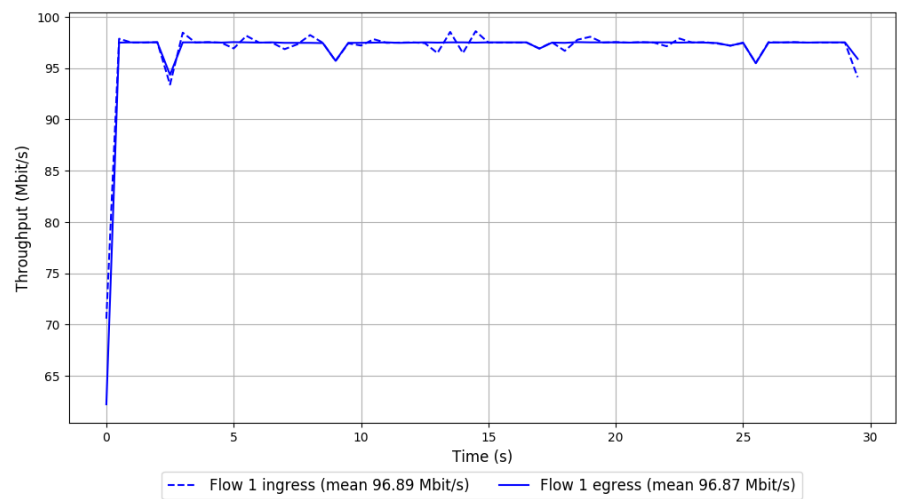
• Flow 1 (95th percentile 40.60 ms)

```
Run 5: Statistics of Verus

Start at: 2018-01-25 07:11:56
End at: 2018-01-25 07:12:26
Local clock offset: 0.911 ms
Remote clock offset: -19.063 ms


# Below is generated by plot.py at 2018-01-25 12:11:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 44.784 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.87 Mbit/s
95th percentile per-packet one-way delay: 44.784 ms
Loss rate: 0.12%
```

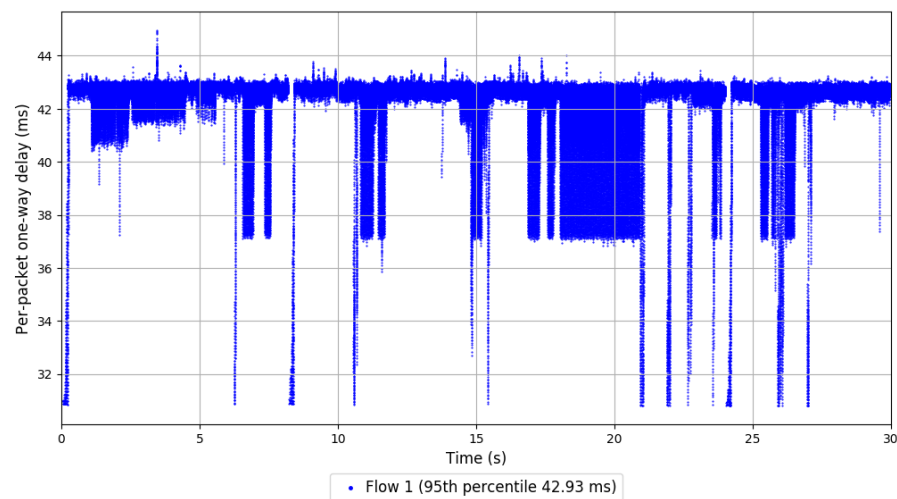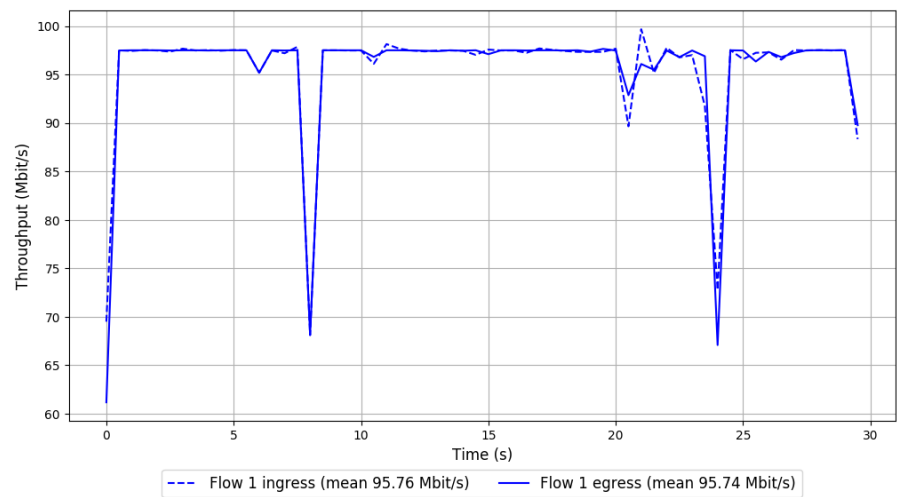Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2018-01-25 07:30:42
End at: 2018-01-25 07:31:12
Local clock offset: 3.032 ms
Remote clock offset: -15.451 ms


# Below is generated by plot.py at 2018-01-25 12:12:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 42.934 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 42.934 ms
Loss rate: 0.12%
```

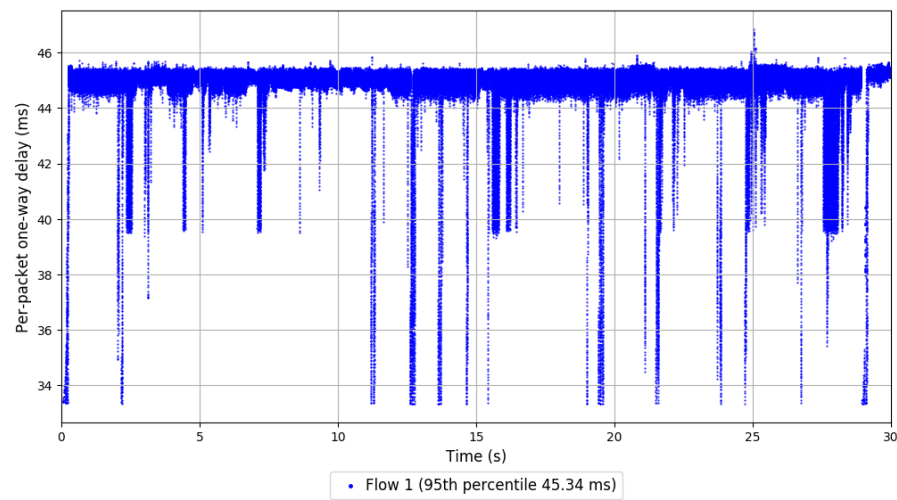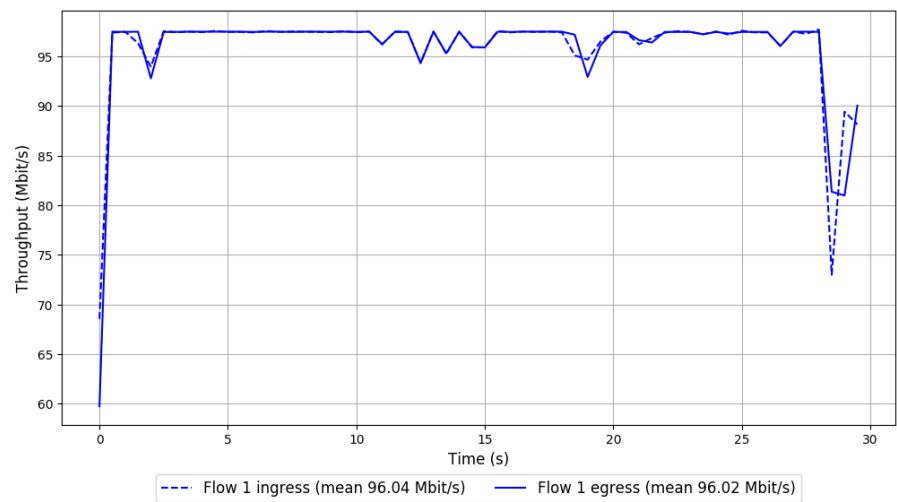Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2018-01-25 07:49:35
End at: 2018-01-25 07:50:05
Local clock offset: 3.405 ms
Remote clock offset: -16.863 ms


# Below is generated by plot.py at 2018-01-25 12:12:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 45.342 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 45.342 ms
Loss rate: 0.12%
```

Run 7: Report of Verus — Data Link

Flow 1 ingress (mean 96.04 Mbit/s)   Flow 1 egress (mean 96.02 Mbit/s)

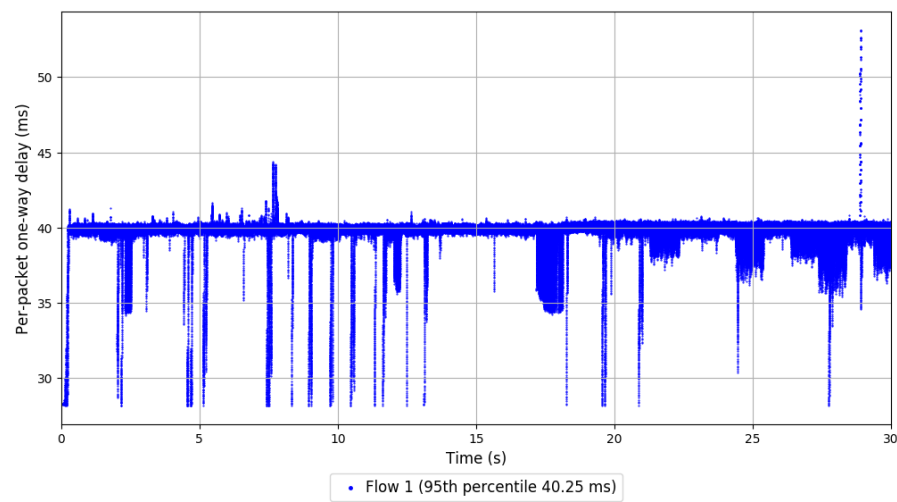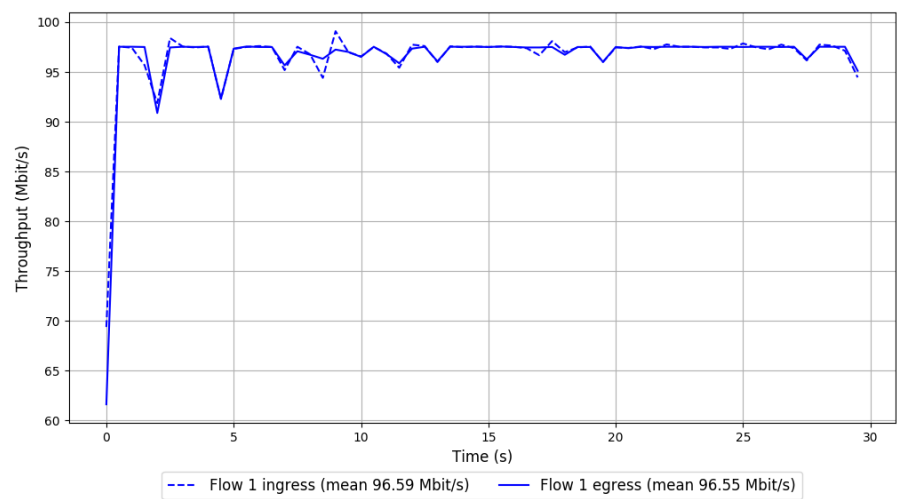Flow 1 (95th percentile 45.34 ms)

```
Run 8: Statistics of Verus

Start at: 2018-01-25 08:08:22
End at: 2018-01-25 08:08:52
Local clock offset: -0.958 ms
Remote clock offset: -16.701 ms


# Below is generated by plot.py at 2018-01-25 12:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 40.251 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.55 Mbit/s
95th percentile per-packet one-way delay: 40.251 ms
Loss rate: 0.12%
```

Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 96.59 Mbit/s) ---- Flow 1 egress (mean 96.55 Mbit/s)

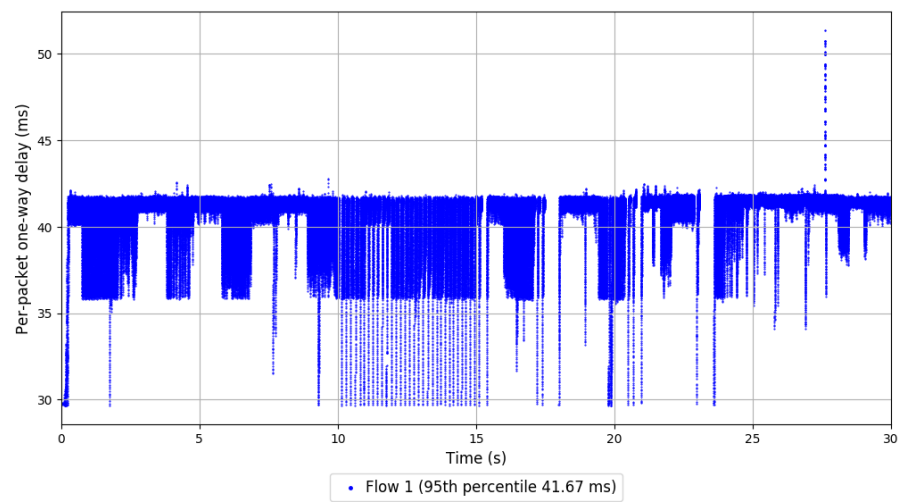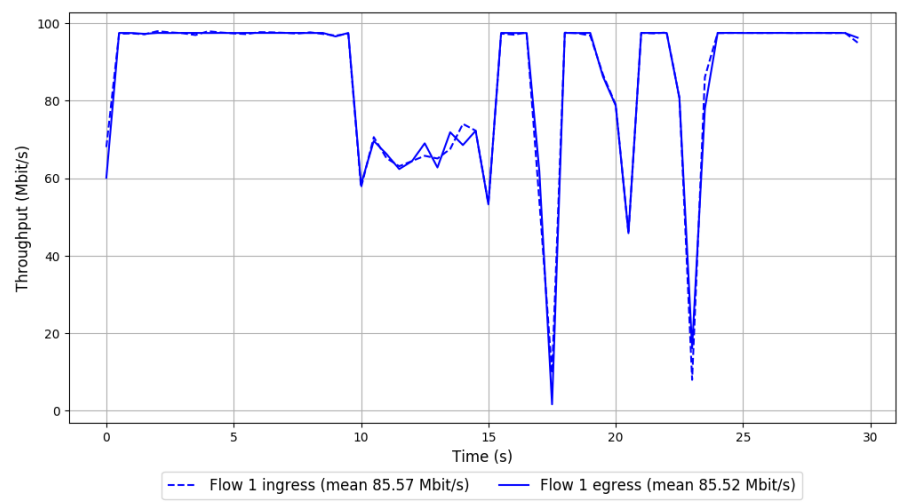Flow 1 (95th percentile 40.25 ms)

```
Run 9: Statistics of Verus

Start at: 2018-01-25 08:27:22
End at: 2018-01-25 08:27:52
Local clock offset: 0.367 ms
Remote clock offset: -15.499 ms


# Below is generated by plot.py at 2018-01-25 12:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.52 Mbit/s
95th percentile per-packet one-way delay: 41.675 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 85.52 Mbit/s
95th percentile per-packet one-way delay: 41.675 ms
Loss rate: 0.13%
```

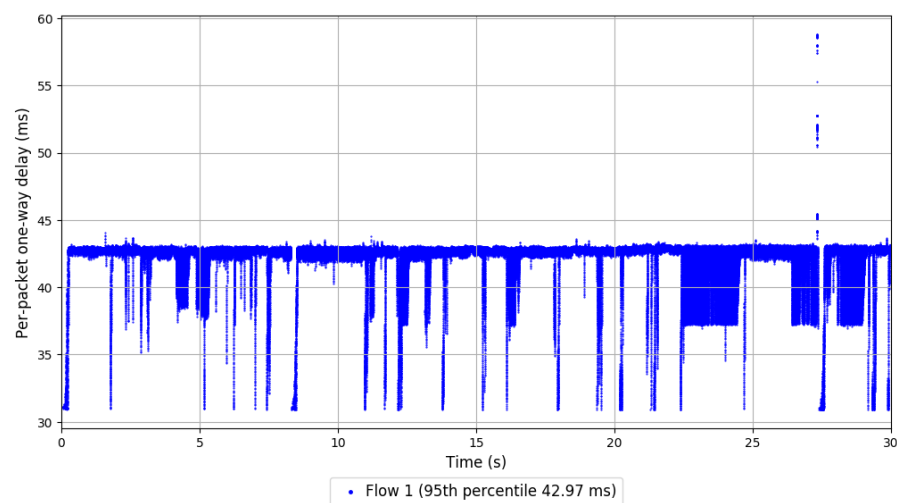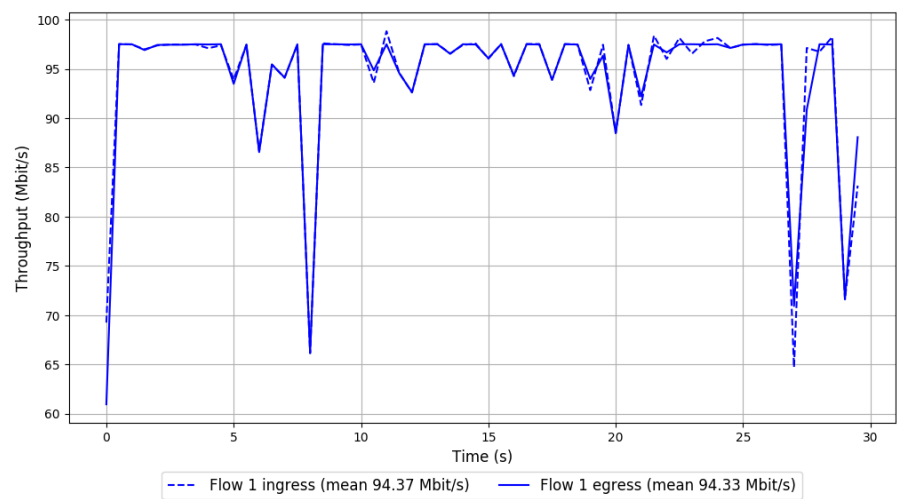Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2018-01-25 08:45:59
End at: 2018-01-25 08:46:29
Local clock offset: 2.783 ms
Remote clock offset: -14.696 ms


# Below is generated by plot.py at 2018-01-25 12:13:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.33 Mbit/s
95th percentile per-packet one-way delay: 42.965 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 94.33 Mbit/s
95th percentile per-packet one-way delay: 42.965 ms
Loss rate: 0.06%
```

Run 10: Report of Verus — Data Link

Flow 1 ingress (mean 94.37 Mbit/s)   Flow 1 egress (mean 94.33 Mbit/s)

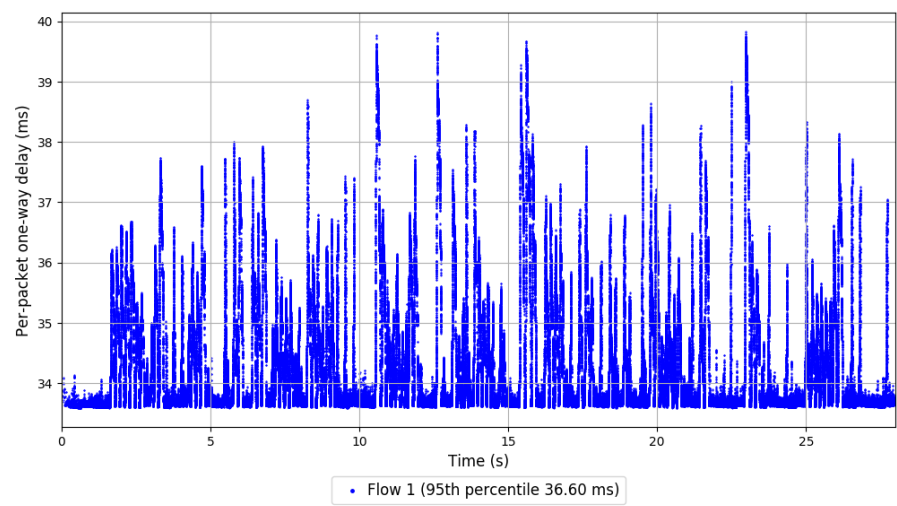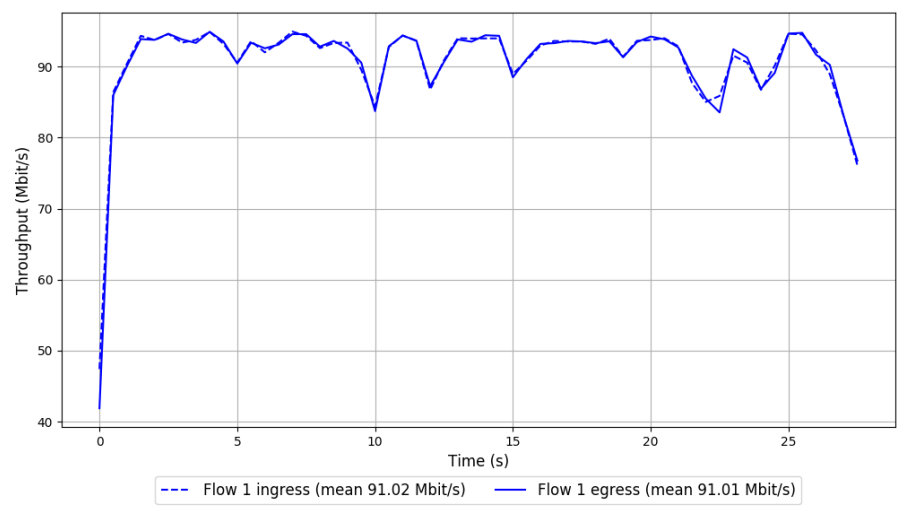Flow 1 (95th percentile 42.97 ms)

```
Run 1: Statistics of Copa

Start at: 2018-01-25 05:43:41
End at: 2018-01-25 05:44:11
Local clock offset: 1.016 ms
Remote clock offset: -20.14 ms


# Below is generated by plot.py at 2018-01-25 12:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 36.602 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 91.01 Mbit/s
95th percentile per-packet one-way delay: 36.602 ms
Loss rate: 0.10%
```

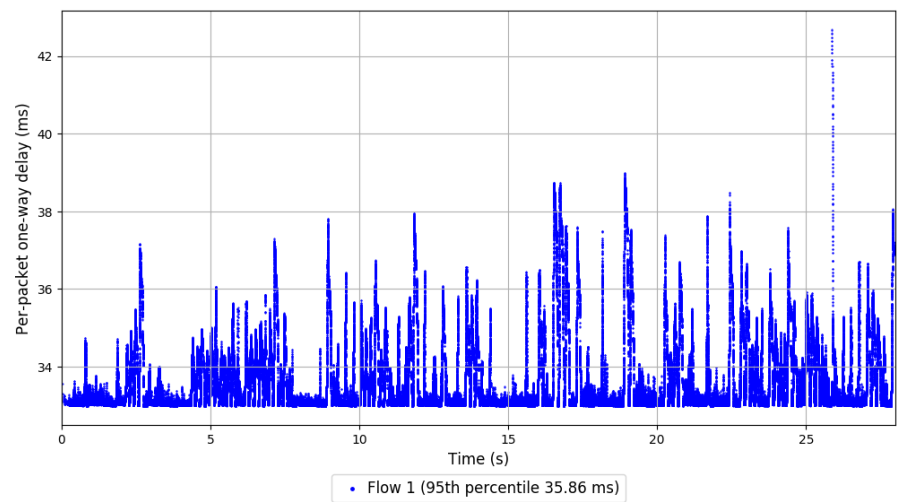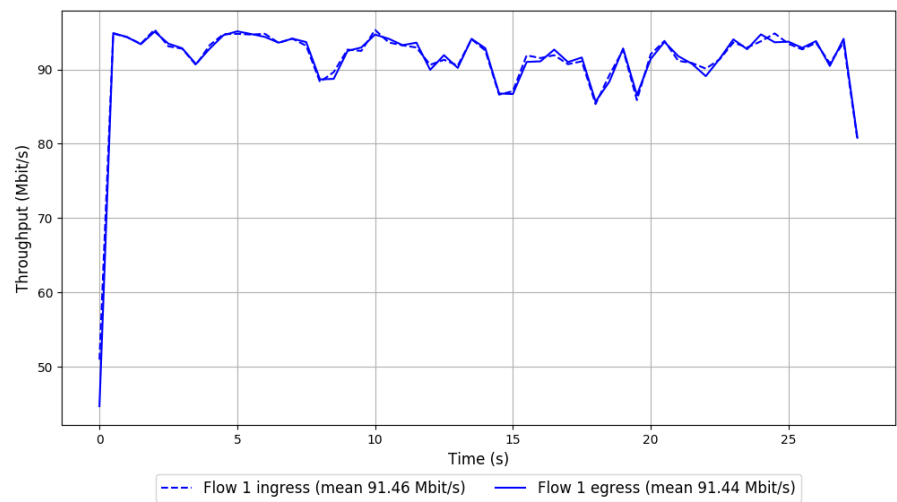Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2018-01-25 06:02:48
End at: 2018-01-25 06:03:18
Local clock offset: 1.457 ms
Remote clock offset: -18.962 ms


# Below is generated by plot.py at 2018-01-25 12:14:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 35.861 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 91.44 Mbit/s
95th percentile per-packet one-way delay: 35.861 ms
Loss rate: 0.11%
```

Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 91.46 Mbit/s)   Flow 1 egress (mean 91.44 Mbit/s)

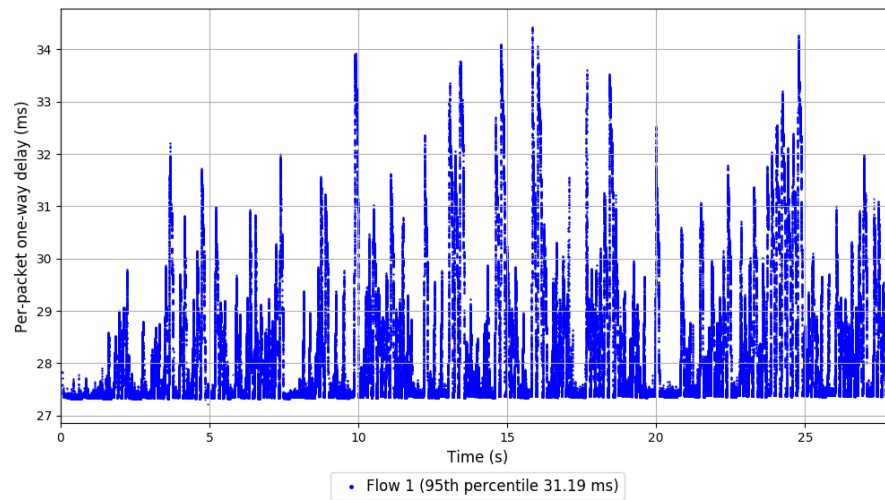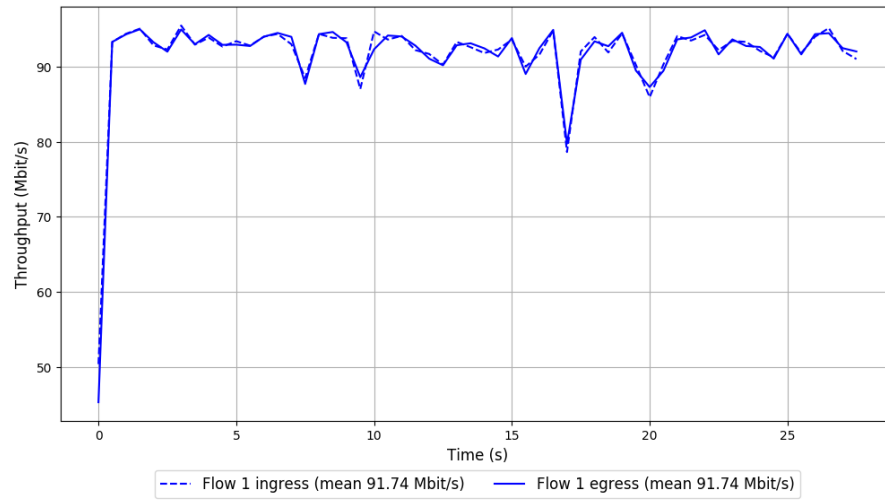Flow 1 (95th percentile 35.86 ms)

```
Run 3: Statistics of Copa

Start at: 2018-01-25 06:21:32
End at: 2018-01-25 06:22:02
Local clock offset: -1.106 ms
Remote clock offset: -18.502 ms

# Below is generated by plot.py at 2018-01-25 12:14:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 31.189 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 31.189 ms
Loss rate: 0.09%
```

Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 91.74 Mbit/s) --- Flow 1 egress (mean 91.74 Mbit/s)

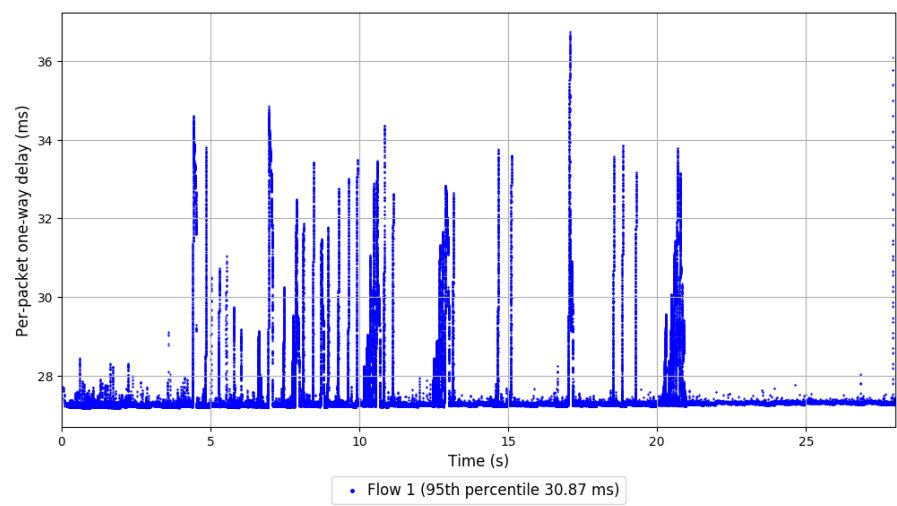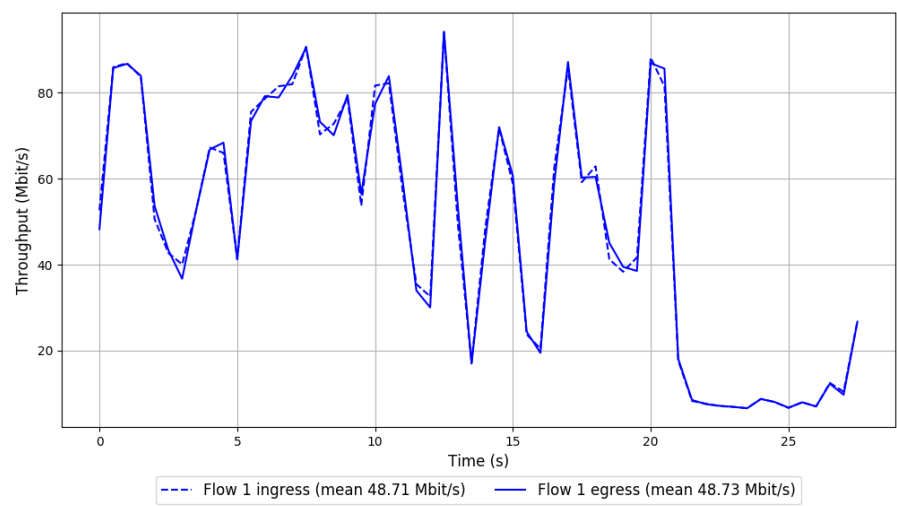• Flow 1 (95th percentile 31.19 ms)

```
Run 4: Statistics of Copa

Start at: 2018-01-25 06:40:11
End at: 2018-01-25 06:40:41
Local clock offset: -1.824 ms
Remote clock offset: -17.111 ms


# Below is generated by plot.py at 2018-01-25 12:14:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 30.869 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 48.73 Mbit/s
95th percentile per-packet one-way delay: 30.869 ms
Loss rate: 0.05%
```

Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 48.71 Mbit/s) ----- Flow 1 egress (mean 48.73 Mbit/s)

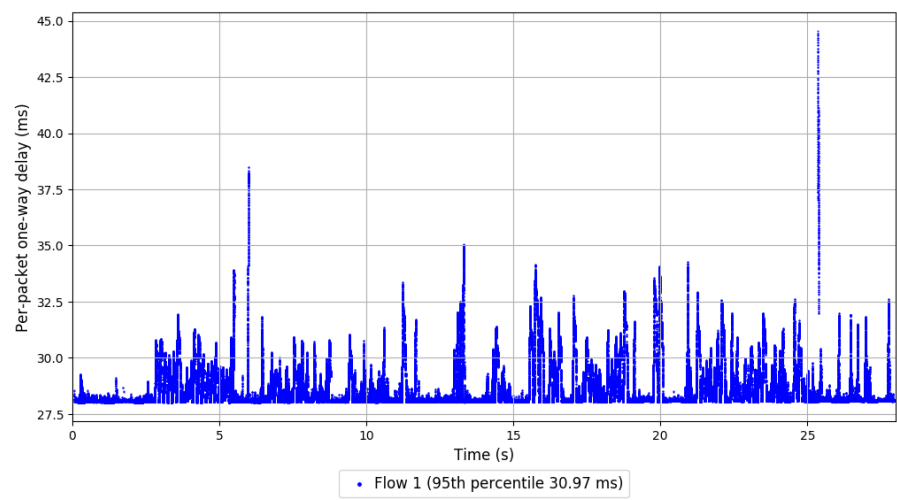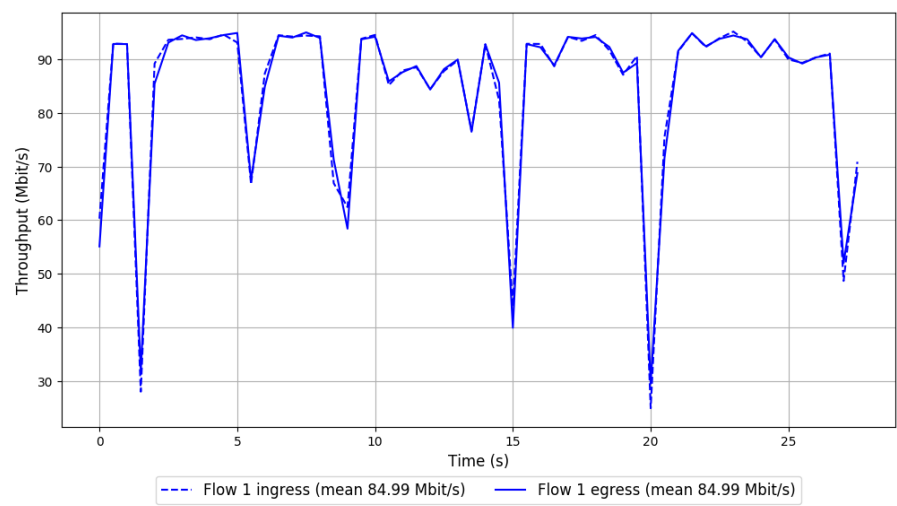Flow 1 (95th percentile 30.87 ms)

```
Run 5: Statistics of Copa

Start at: 2018-01-25 06:59:09
End at: 2018-01-25 06:59:39
Local clock offset: -2.244 ms
Remote clock offset: -17.554 ms


# Below is generated by plot.py at 2018-01-25 12:14:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 30.966 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 30.966 ms
Loss rate: 0.09%
```

Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: 2018-01-25 07:17:51
End at: 2018-01-25 07:18:21
Local clock offset: 0.376 ms
Remote clock offset: -16.638 ms


# Below is generated by plot.py at 2018-01-25 12:14:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.45 Mbit/s
95th percentile per-packet one-way delay: 33.807 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 82.45 Mbit/s
95th percentile per-packet one-way delay: 33.807 ms
Loss rate: 0.08%
```
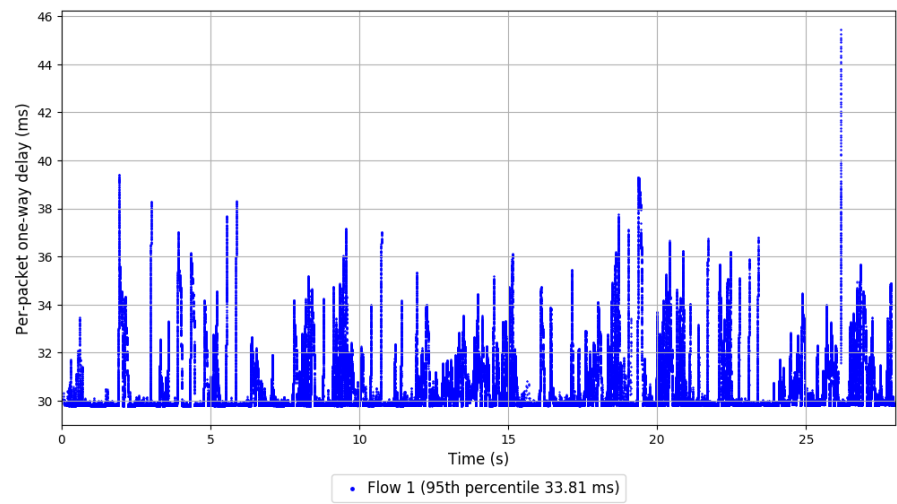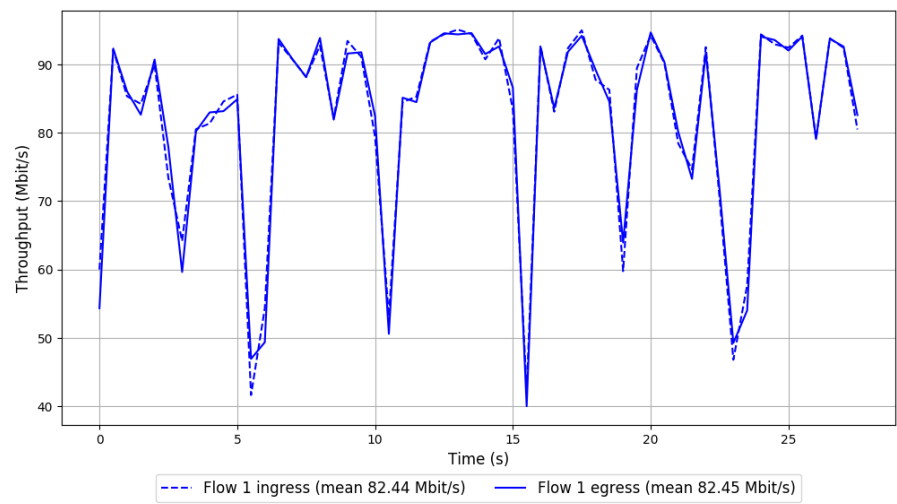
Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 82.44 Mbit/s)   Flow 1 egress (mean 82.45 Mbit/s)

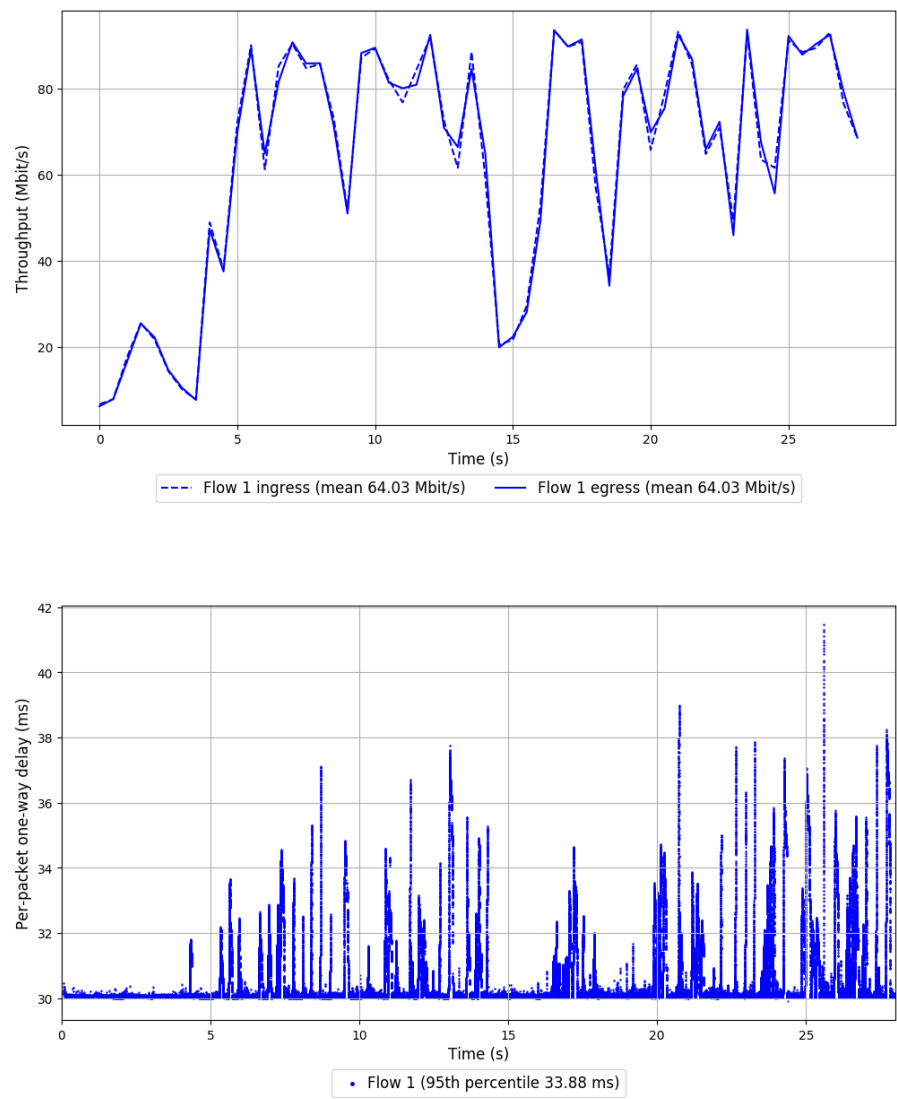Flow 1 (95th percentile 33.81 ms)

```
Run 7: Statistics of Copa

Start at: 2018-01-25 07:36:38
End at: 2018-01-25 07:37:08
Local clock offset: 1.923 ms
Remote clock offset: -15.733 ms


# Below is generated by plot.py at 2018-01-25 12:14:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.03 Mbit/s
95th percentile per-packet one-way delay: 33.877 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 64.03 Mbit/s
95th percentile per-packet one-way delay: 33.877 ms
Loss rate: 0.09%
```

Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 64.03 Mbit/s)   Flow 1 egress (mean 64.03 Mbit/s)

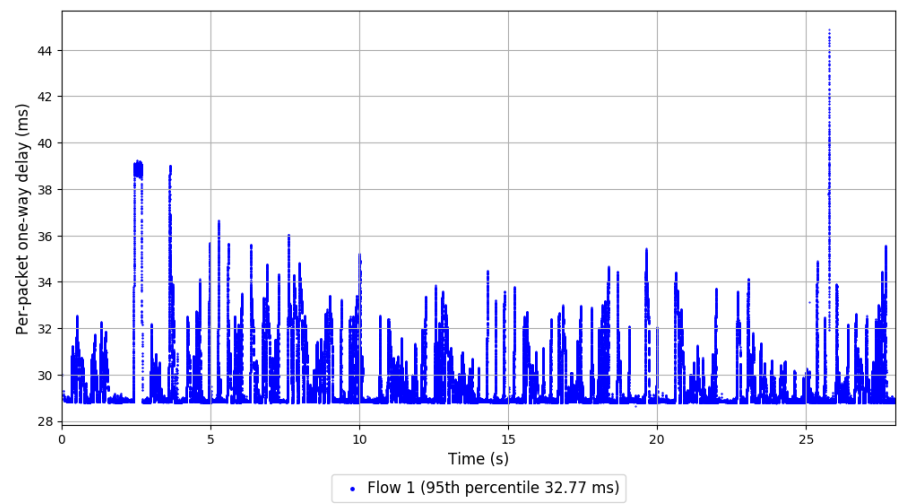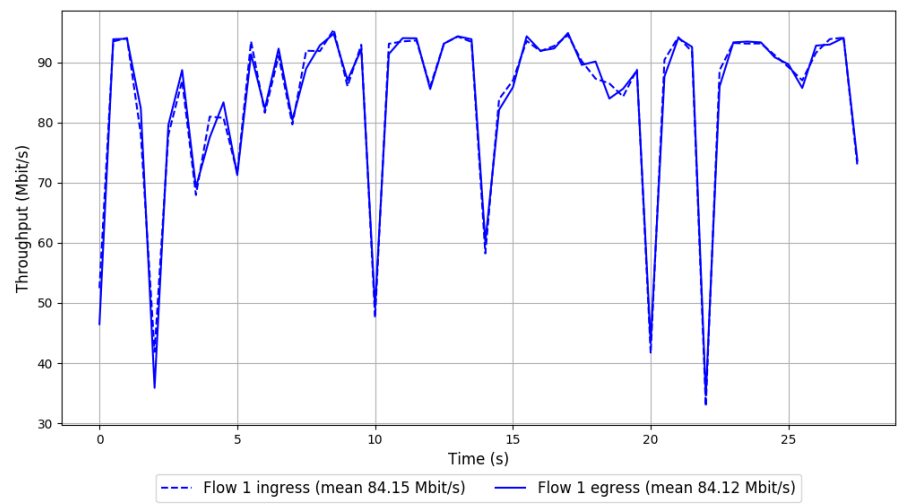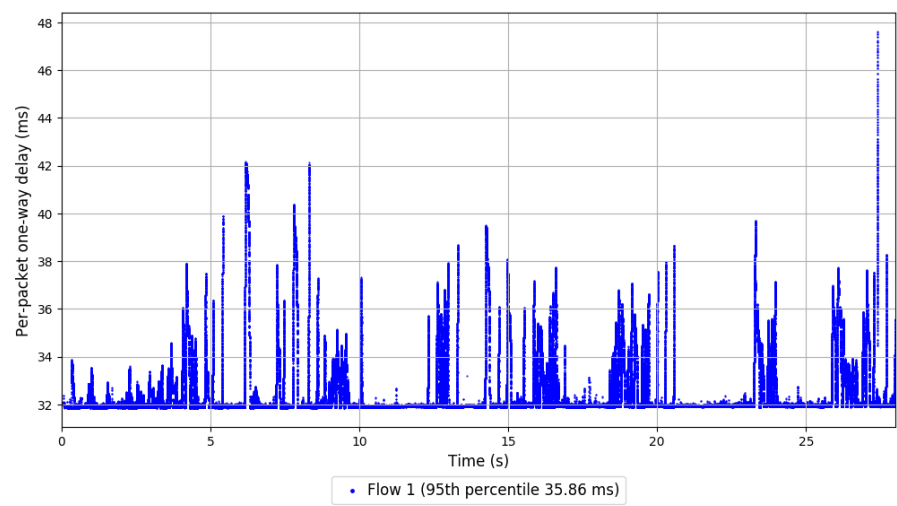• Flow 1 (95th percentile 33.88 ms)

```
Run 8: Statistics of Copa

Start at: 2018-01-25 07:55:30
End at: 2018-01-25 07:56:00
Local clock offset: -1.278 ms
Remote clock offset: -17.042 ms


# Below is generated by plot.py at 2018-01-25 12:15:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.12 Mbit/s
95th percentile per-packet one-way delay: 32.766 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 84.12 Mbit/s
95th percentile per-packet one-way delay: 32.766 ms
Loss rate: 0.11%
```

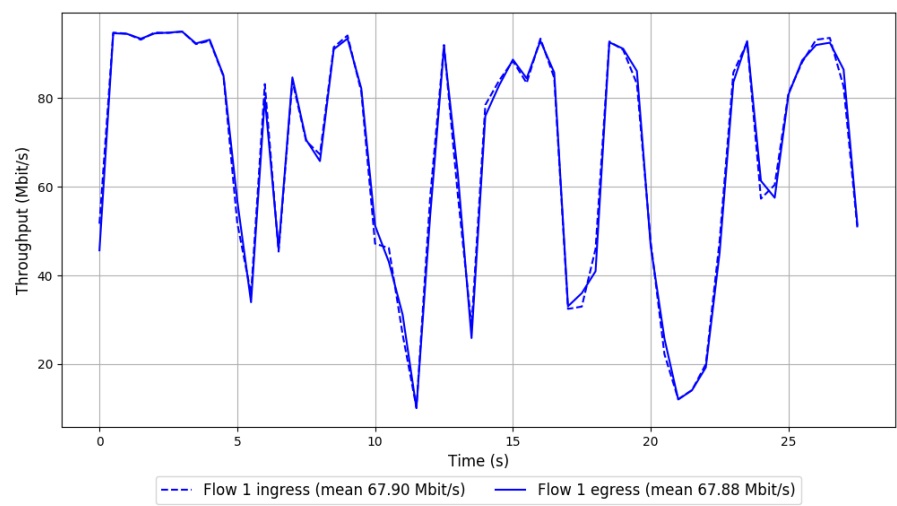Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: 2018-01-25 08:14:05
End at: 2018-01-25 08:14:35
Local clock offset: 2.226 ms
Remote clock offset: -16.776 ms


# Below is generated by plot.py at 2018-01-25 12:15:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.88 Mbit/s
95th percentile per-packet one-way delay: 35.858 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 67.88 Mbit/s
95th percentile per-packet one-way delay: 35.858 ms
Loss rate: 0.07%
```

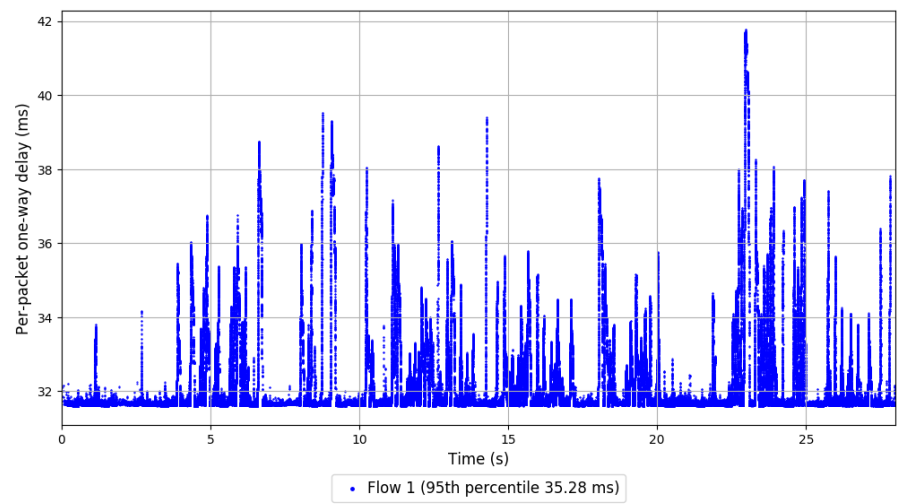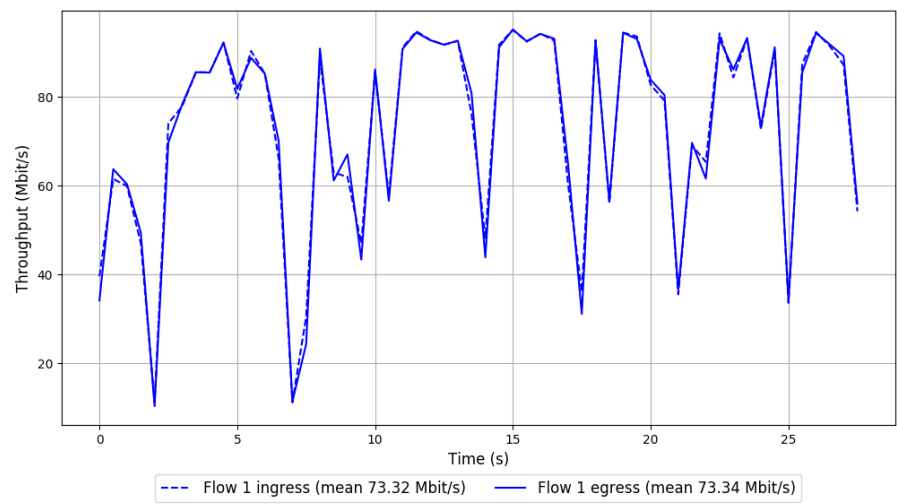Run 9: Report of Copa — Data Link

```
Run 10: Statistics of Copa

Start at: 2018-01-25 08:33:13
End at: 2018-01-25 08:33:43
Local clock offset: 0.646 ms
Remote clock offset: -17.29 ms


# Below is generated by plot.py at 2018-01-25 12:16:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.34 Mbit/s
95th percentile per-packet one-way delay: 35.277 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 73.34 Mbit/s
95th percentile per-packet one-way delay: 35.277 ms
Loss rate: 0.05%
```

Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 73.32 Mbit/s)   Flow 1 egress (mean 73.34 Mbit/s)

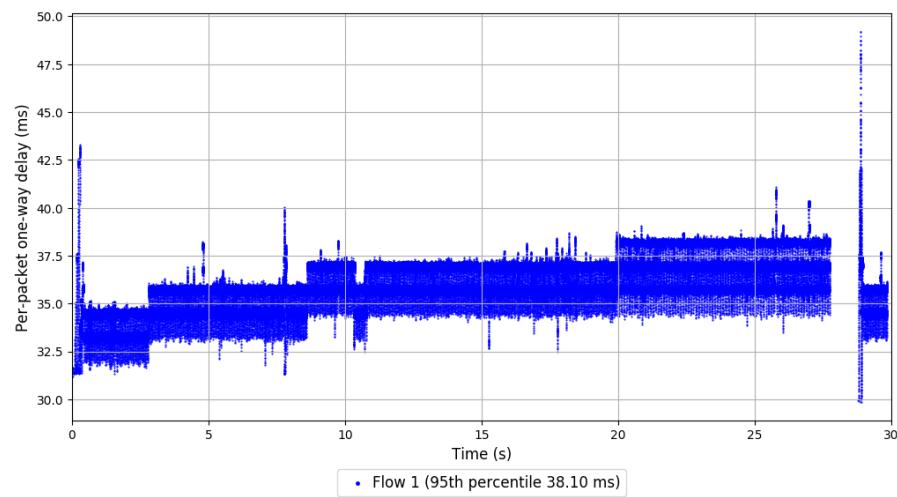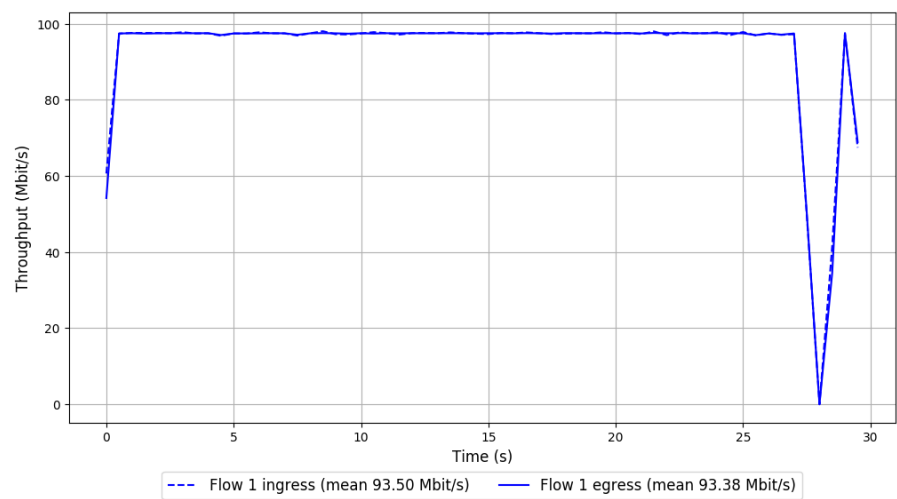Flow 1 (95th percentile 35.28 ms)

```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-25 05:48:31
End at: 2018-01-25 05:49:01
Local clock offset: -0.62 ms
Remote clock offset: -20.518 ms

# Below is generated by plot.py at 2018-01-25 12:16:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 38.102 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 93.38 Mbit/s
95th percentile per-packet one-way delay: 38.102 ms
Loss rate: 0.21%
```
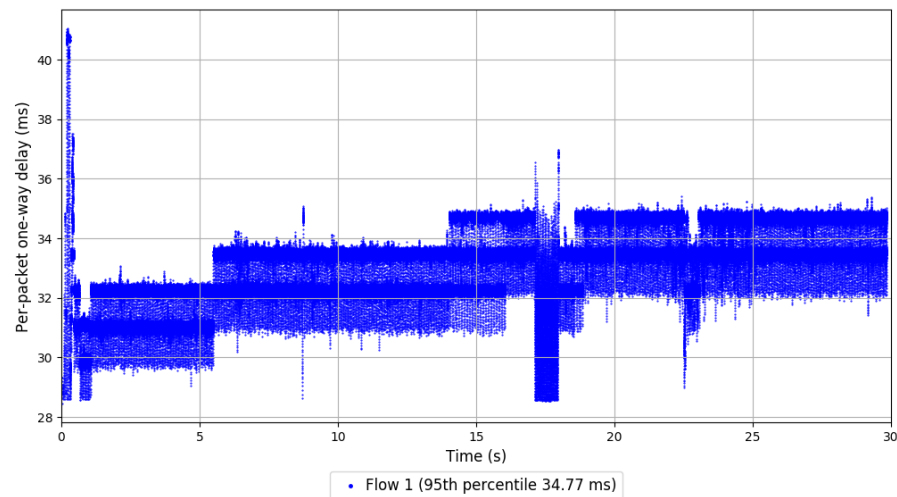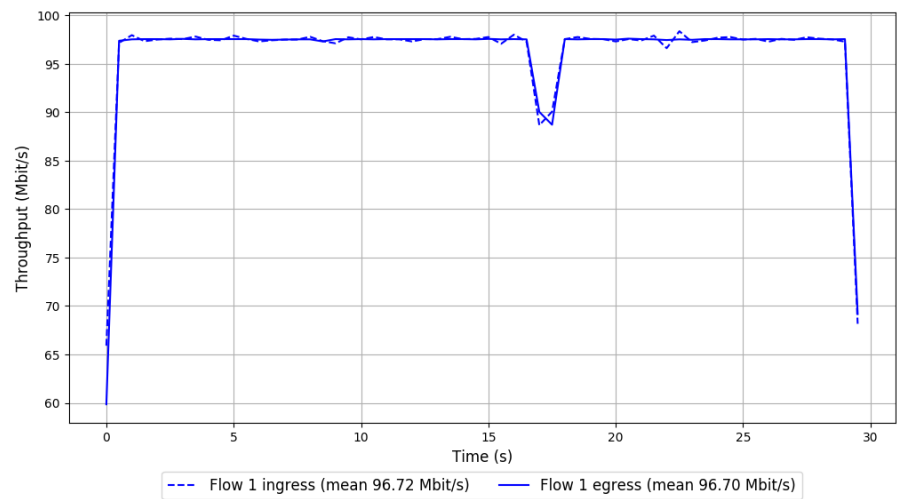
Run 1: Report of Indigo-2-256 — Data Link

```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-25 06:07:37
End at: 2018-01-25 06:08:07
Local clock offset: 1.122 ms
Remote clock offset: -18.068 ms

# Below is generated by plot.py at 2018-01-25 12:16:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.70 Mbit/s
95th percentile per-packet one-way delay: 34.774 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.70 Mbit/s
95th percentile per-packet one-way delay: 34.774 ms
Loss rate: 0.10%
```
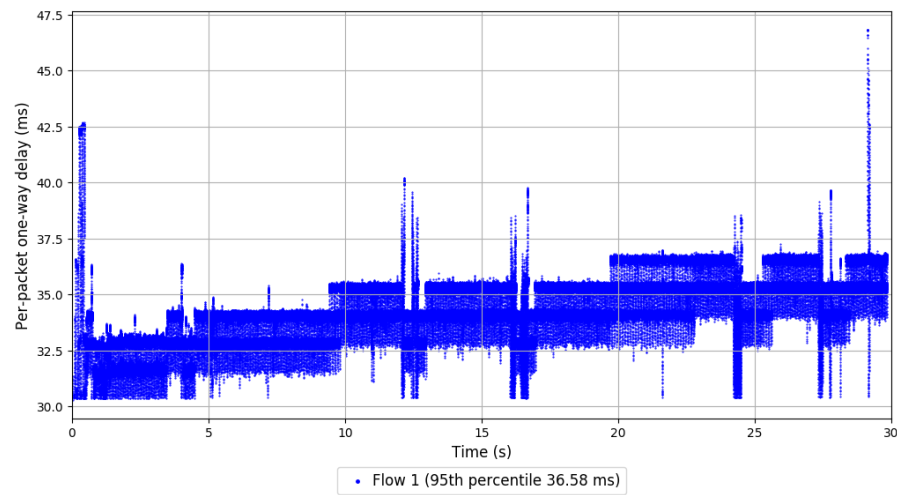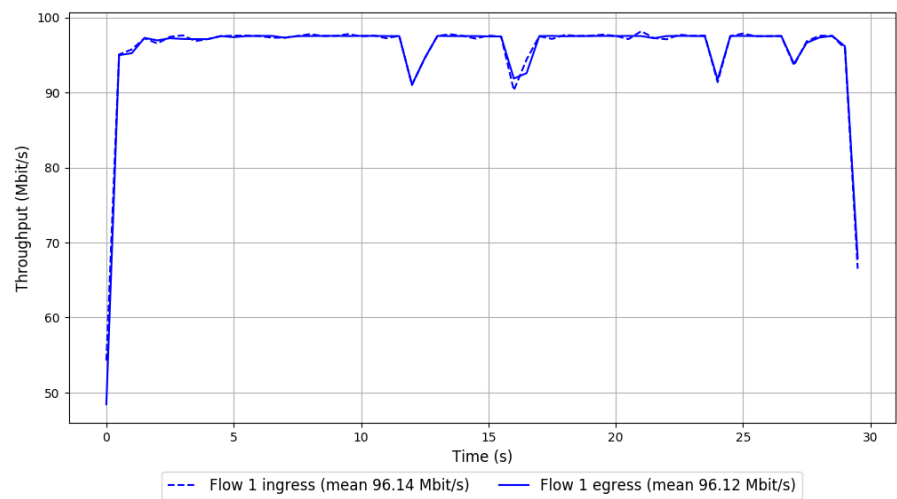
Run 2: Report of Indigo-2-256 — Data Link

```
Run 3: Statistics of Indigo-2-256

Start at: 2018-01-25 06:26:11
End at: 2018-01-25 06:26:41
Local clock offset: 2.01 ms
Remote clock offset: -17.979 ms


# Below is generated by plot.py at 2018-01-25 12:16:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 36.584 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.12 Mbit/s
95th percentile per-packet one-way delay: 36.584 ms
Loss rate: 0.10%
```
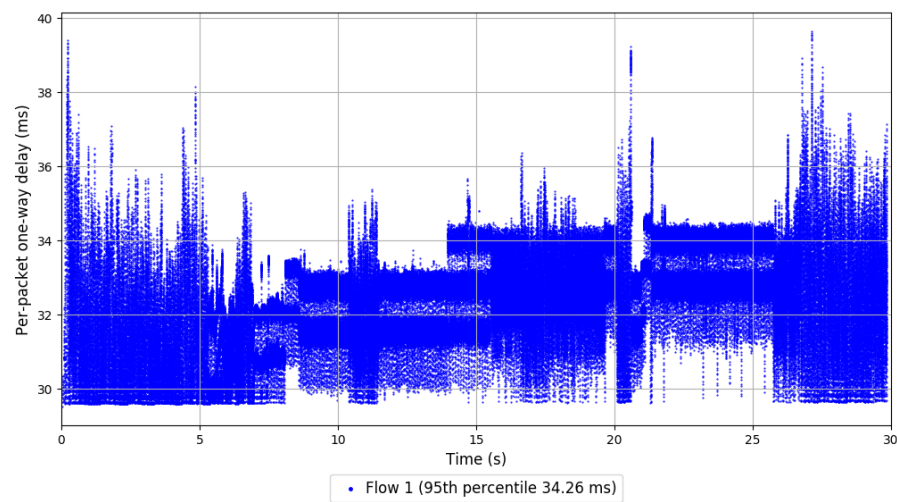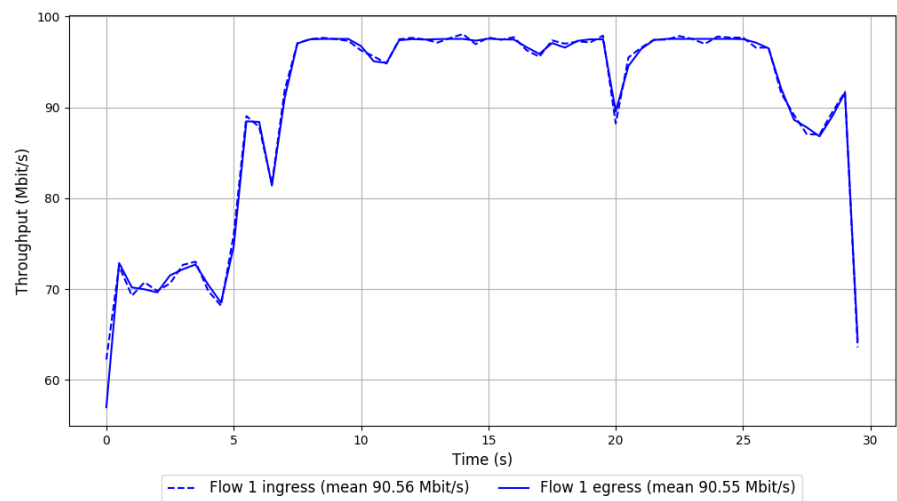
Run 3: Report of Indigo-2-256 — Data Link

```
Run 4: Statistics of Indigo-2-256

Start at: 2018-01-25 06:44:52
End at: 2018-01-25 06:45:23
Local clock offset: 0.258 ms
Remote clock offset: -16.835 ms


# Below is generated by plot.py at 2018-01-25 12:16:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 34.259 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 34.259 ms
Loss rate: 0.10%
```

Run 4: Report of Indigo-2-256 — Data Link

Flow 1 ingress (mean 90.56 Mbit/s)   Flow 1 egress (mean 90.55 Mbit/s)
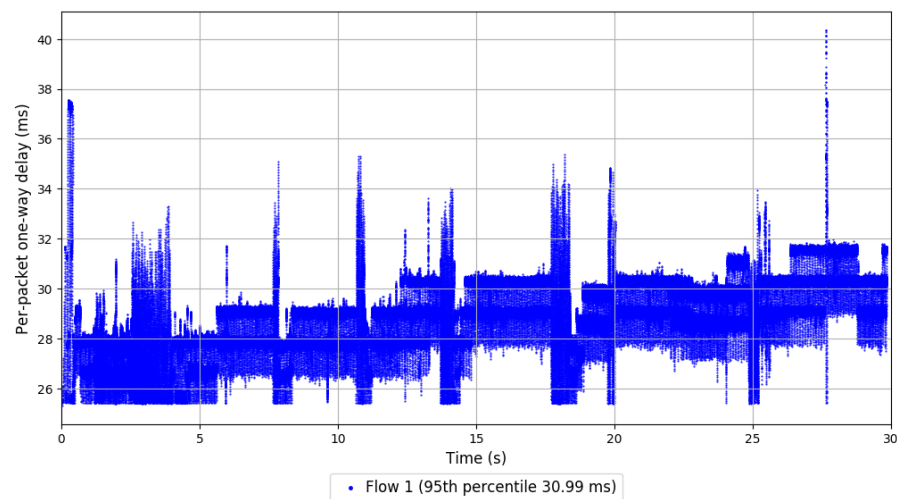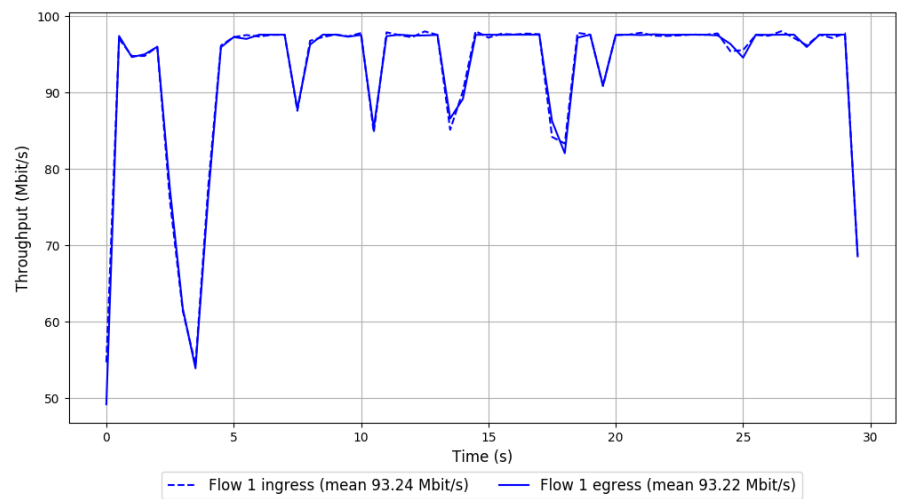

• Flow 1 (95th percentile 34.26 ms)

```
Run 5: Statistics of Indigo-2-256

Start at: 2018-01-25 07:03:51
End at: 2018-01-25 07:04:21
Local clock offset: -2.195 ms
Remote clock offset: -14.706 ms


# Below is generated by plot.py at 2018-01-25 12:16:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 30.991 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 30.991 ms
Loss rate: 0.10%
```
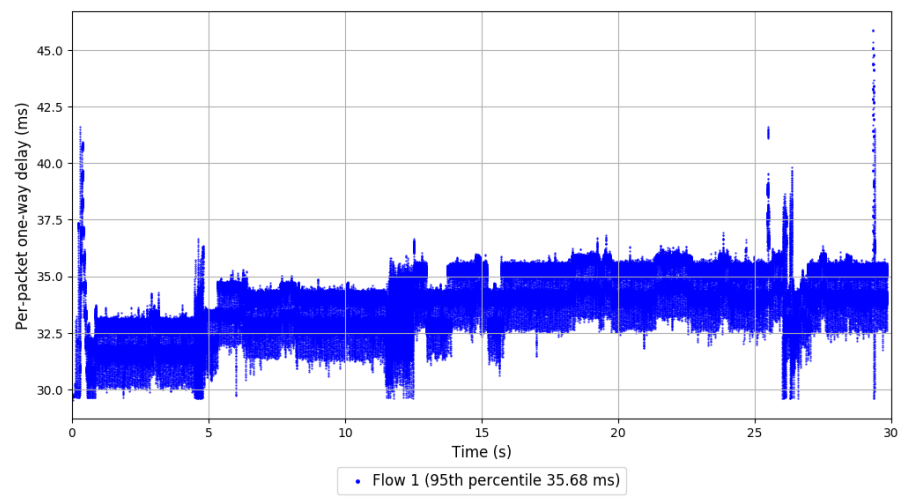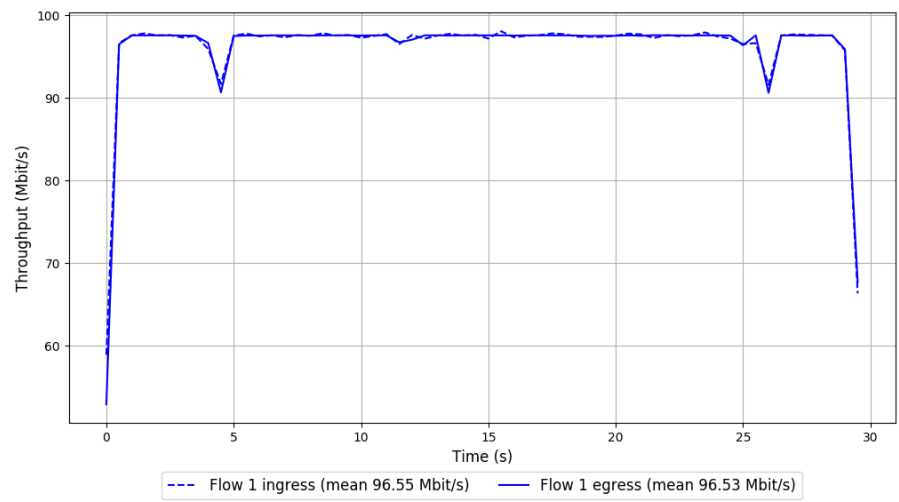
Run 5: Report of Indigo-2-256 — Data Link

```
Run 6: Statistics of Indigo-2-256

Start at: 2018-01-25 07:22:31
End at: 2018-01-25 07:23:01
Local clock offset: -1.498 ms
Remote clock offset: -18.098 ms


# Below is generated by plot.py at 2018-01-25 12:16:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 35.681 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.53 Mbit/s
95th percentile per-packet one-way delay: 35.681 ms
Loss rate: 0.09%
```

Run 6: Report of Indigo-2-256 — Data Link

Flow 1 ingress (mean 96.55 Mbit/s)   —— Flow 1 egress (mean 96.53 Mbit/s)
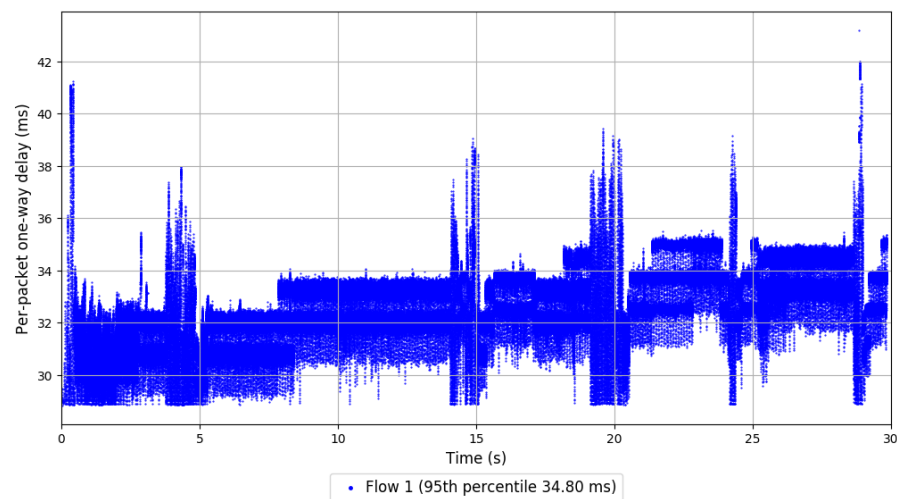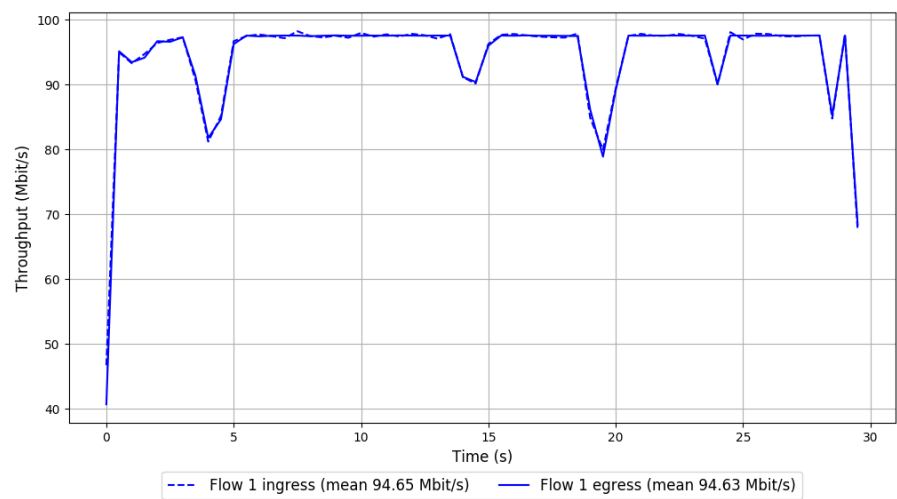

• Flow 1 (95th percentile 35.68 ms)

```
Run 7: Statistics of Indigo-2-256

Start at: 2018-01-25 07:41:19
End at: 2018-01-25 07:41:49
Local clock offset: -0.108 ms
Remote clock offset: -16.253 ms


# Below is generated by plot.py at 2018-01-25 12:16:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 34.802 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 34.802 ms
Loss rate: 0.10%
```
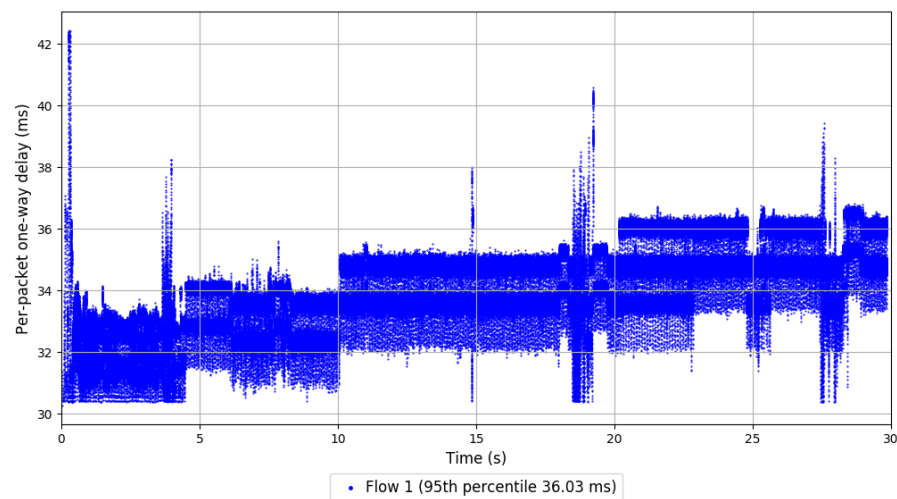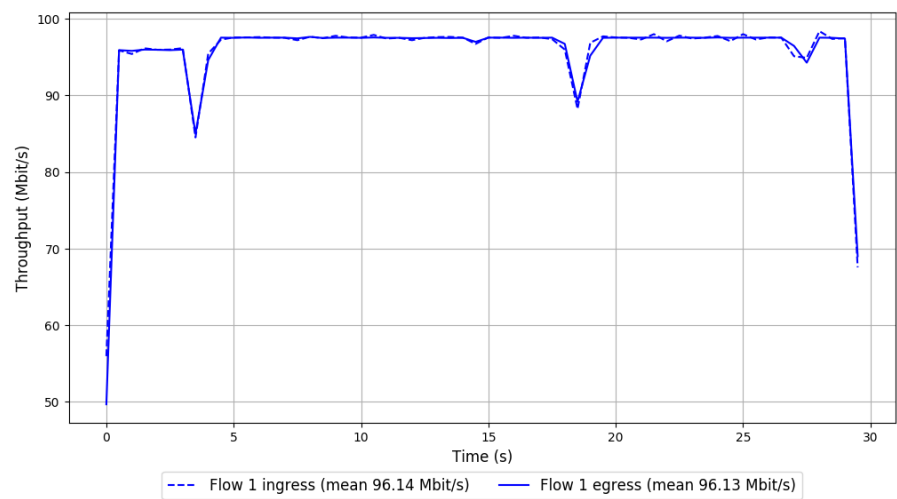
Run 7: Report of Indigo-2-256 — Data Link

```
Run 8: Statistics of Indigo-2-256

Start at: 2018-01-25 08:00:09
End at: 2018-01-25 08:00:39
Local clock offset: 0.405 ms
Remote clock offset: -17.205 ms


# Below is generated by plot.py at 2018-01-25 12:16:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 36.033 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 36.033 ms
Loss rate: 0.09%
```

Run 8: Report of Indigo-2-256 — Data Link

Flow 1 ingress (mean 96.14 Mbit/s)   —— Flow 1 egress (mean 96.13 Mbit/s)
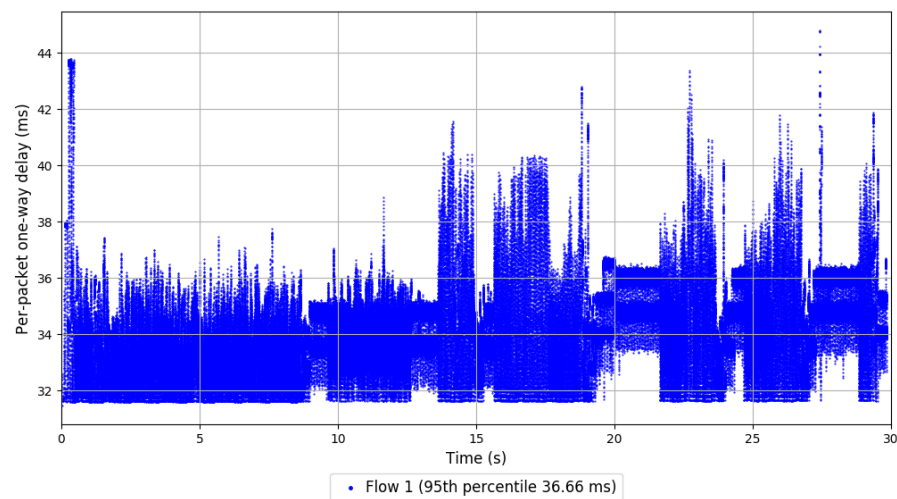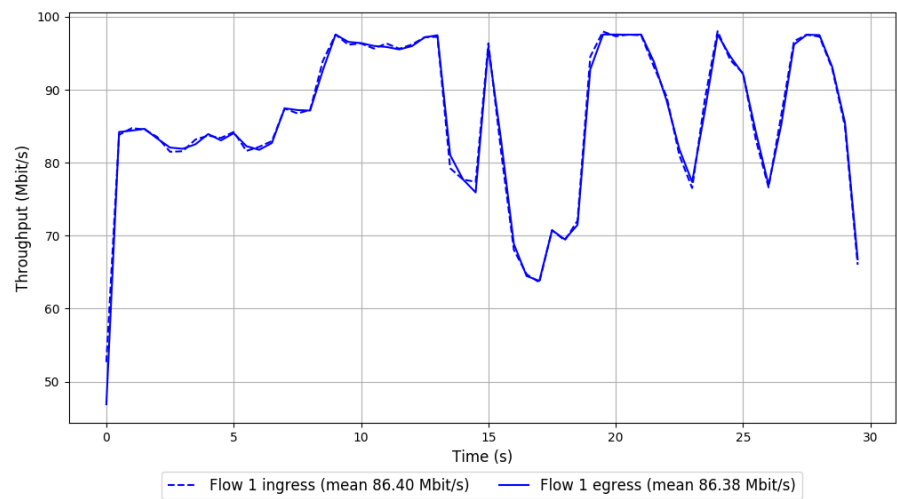

• Flow 1 (95th percentile 36.03 ms)

```
Run 9: Statistics of Indigo-2-256

Start at: 2018-01-25 08:19:21
End at: 2018-01-25 08:19:51
Local clock offset: 2.682 ms
Remote clock offset: -15.401 ms


# Below is generated by plot.py at 2018-01-25 12:16:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.38 Mbit/s
95th percentile per-packet one-way delay: 36.658 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 86.38 Mbit/s
95th percentile per-packet one-way delay: 36.658 ms
Loss rate: 0.10%
```

Run 9: Report of Indigo-2-256 — Data Link

Flow 1 ingress (mean 86.40 Mbit/s)   —— Flow 1 egress (mean 86.38 Mbit/s)

• Flow 1 (95th percentile 36.66 ms)

```
Run 10: Statistics of Indigo-2-256

Start at: 2018-01-25 08:37:54
End at: 2018-01-25 08:38:24
Local clock offset: 2.408 ms
Remote clock offset: -15.24 ms


# Below is generated by plot.py at 2018-01-25 12:17:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 36.217 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 88.17 Mbit/s
95th percentile per-packet one-way delay: 36.217 ms
Loss rate: 0.07%
```
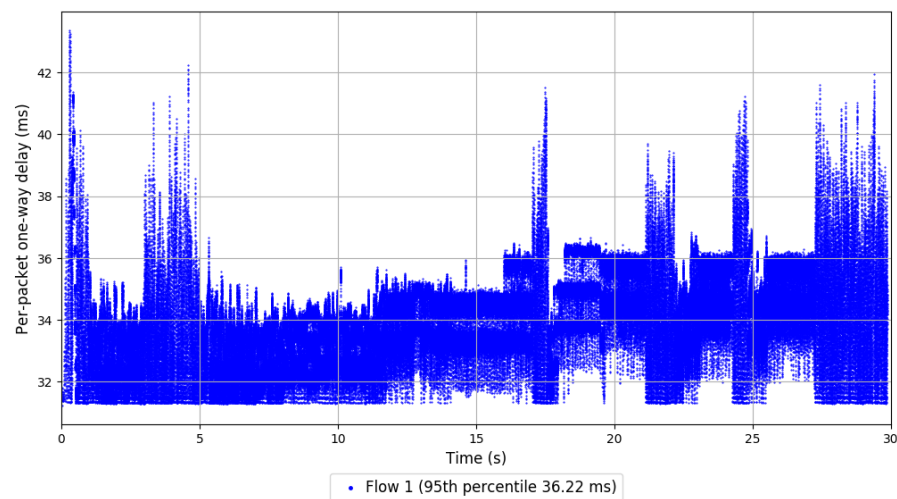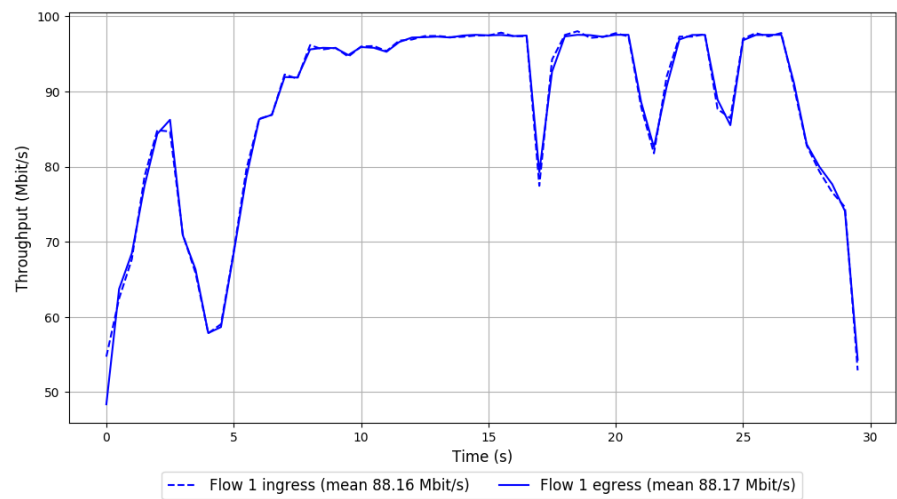
Run 10: Report of Indigo-2-256 — Data Link

Flow 1 ingress (mean 88.16 Mbit/s)   Flow 1 egress (mean 88.17 Mbit/s)
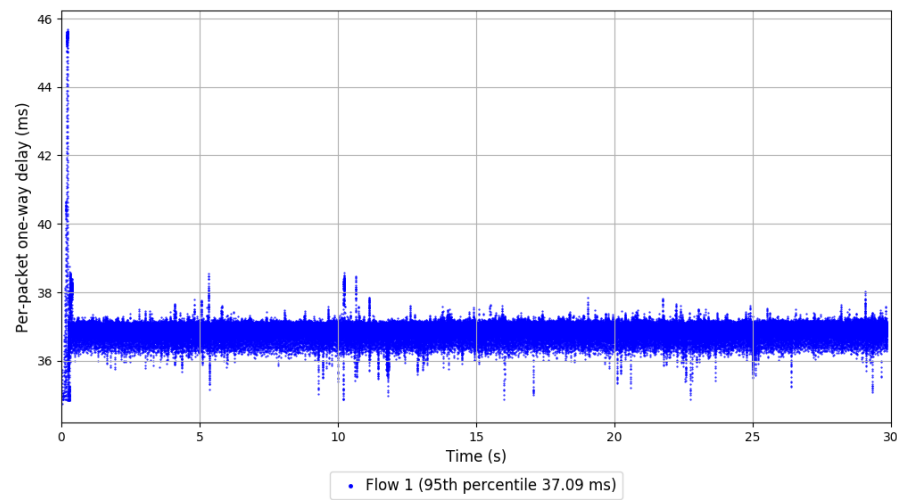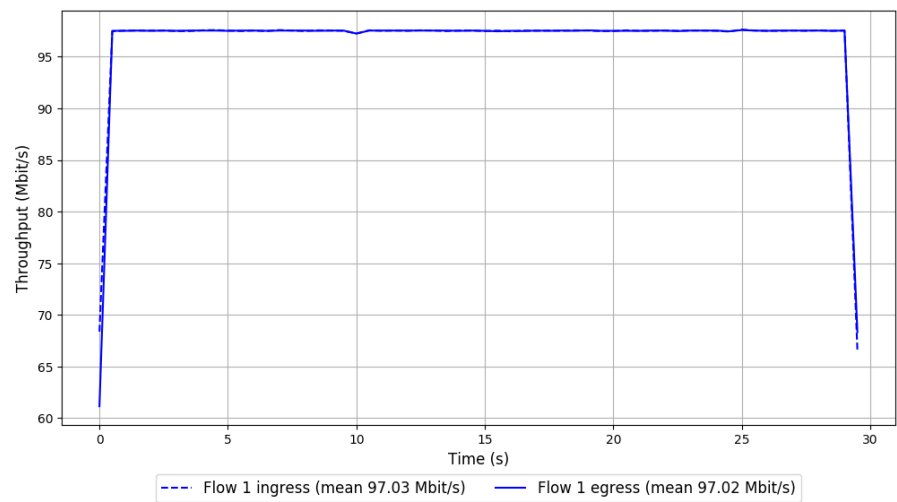

• Flow 1 (95th percentile 36.22 ms)

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

Start at: 2018-01-25 05:46:10
End at: 2018-01-25 05:46:40
Local clock offset: 1.153 ms
Remote clock offset: -21.126 ms

# Below is generated by plot.py at 2018-01-25 12:17:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 37.095 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 37.095 ms
Loss rate: 0.09%
```

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

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

Start at: 2018-01-25 06:05:15
End at: 2018-01-25 06:05:45
Local clock offset: 1.454 ms
Remote clock offset: -18.202 ms


# Below is generated by plot.py at 2018-01-25 12:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 34.202 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.81 Mbit/s
95th percentile per-packet one-way delay: 34.202 ms
Loss rate: 0.08%
```
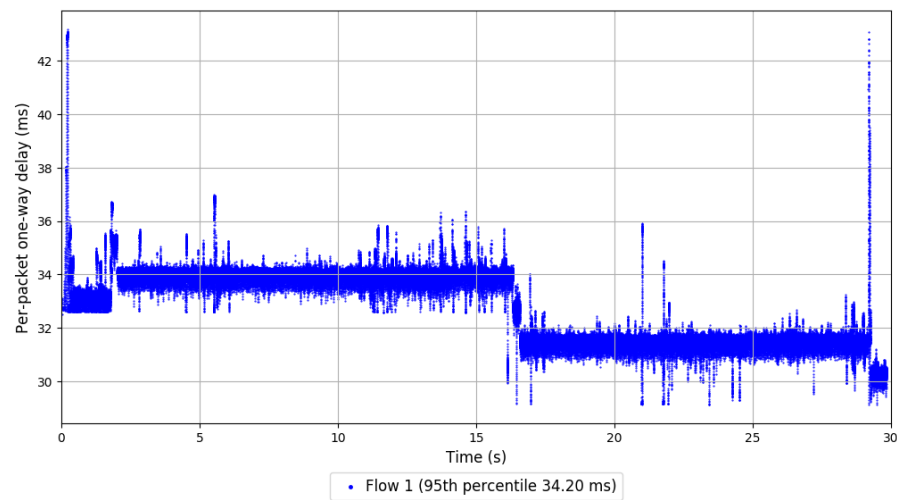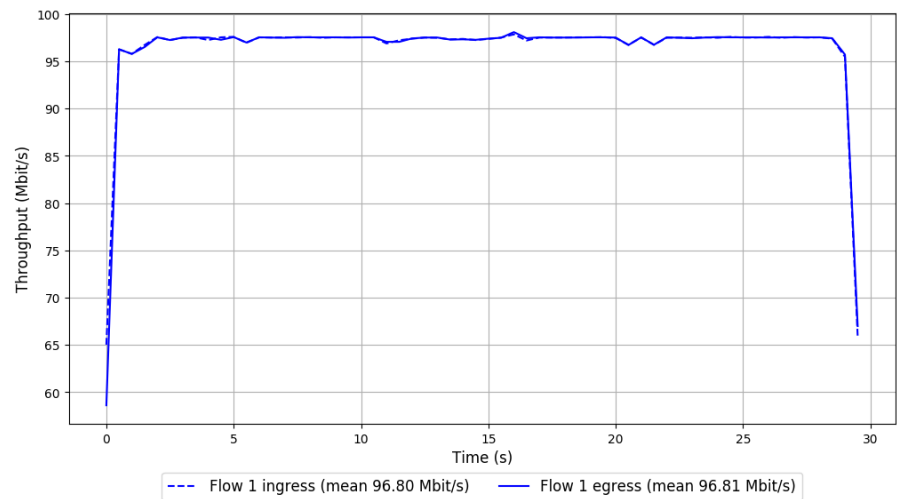
Run 2: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-25 06:23:54
End at: 2018-01-25 06:24:24
Local clock offset: 0.786 ms
Remote clock offset: -19.445 ms


# Below is generated by plot.py at 2018-01-25 12:17:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 33.059 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 33.059 ms
Loss rate: 0.08%
```
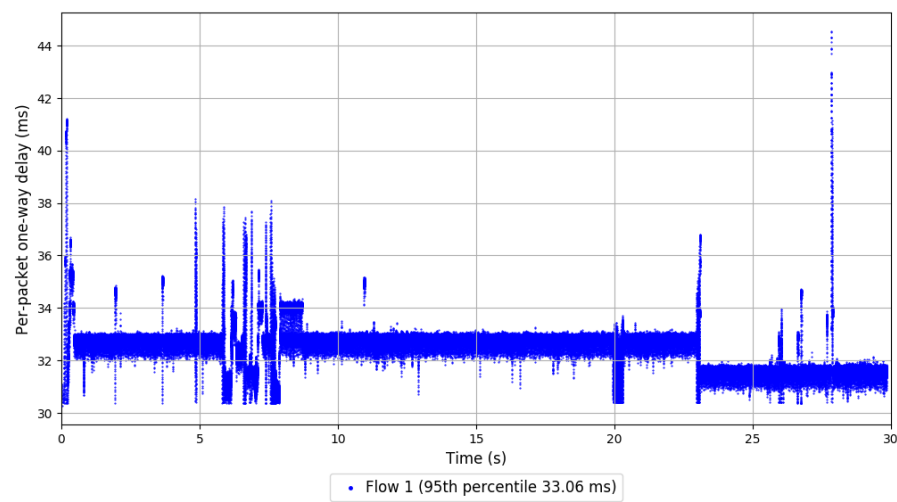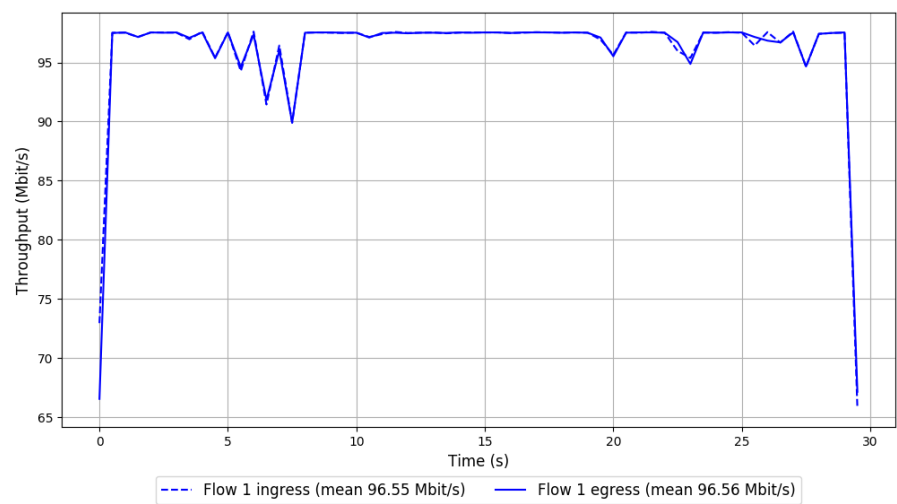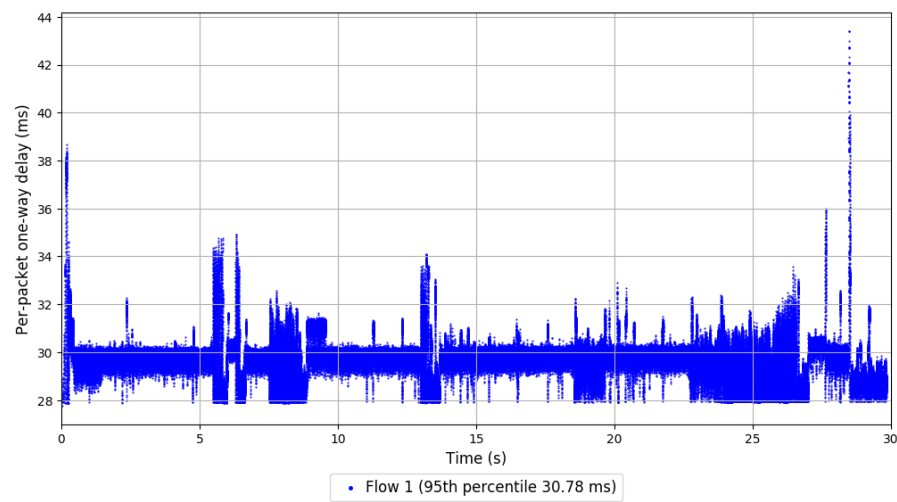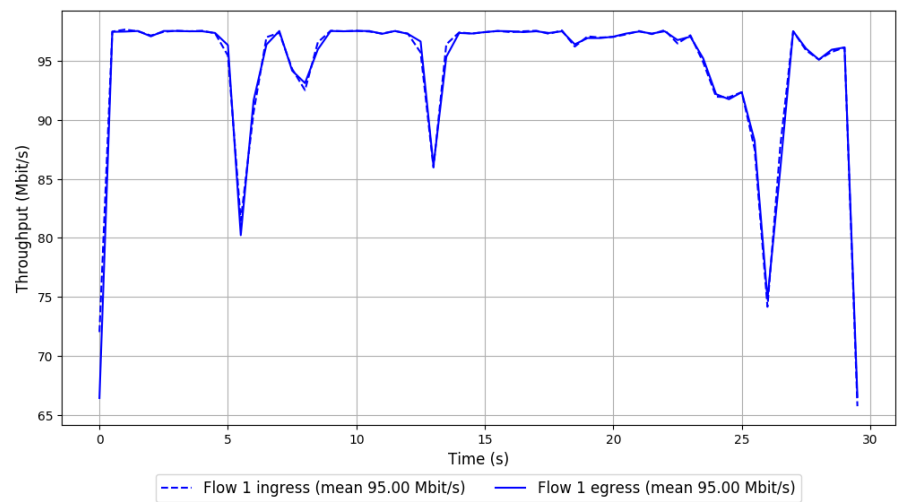
Run 3: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-25 06:42:32
End at: 2018-01-25 06:43:02
Local clock offset: -1.028 ms
Remote clock offset: -16.696 ms


# Below is generated by plot.py at 2018-01-25 12:18:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 30.779 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.00 Mbit/s
95th percentile per-packet one-way delay: 30.779 ms
Loss rate: 0.08%
```

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

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

Start at: 2018-01-25 07:01:33
End at: 2018-01-25 07:02:03
Local clock offset: 0.393 ms
Remote clock offset: -15.29 ms


# Below is generated by plot.py at 2018-01-25 12:18:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 32.238 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.63 Mbit/s
95th percentile per-packet one-way delay: 32.238 ms
Loss rate: 0.08%
```
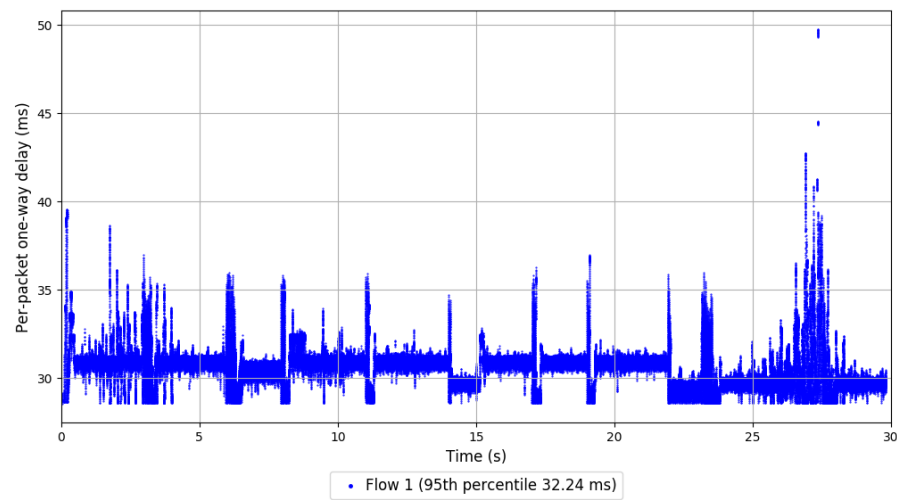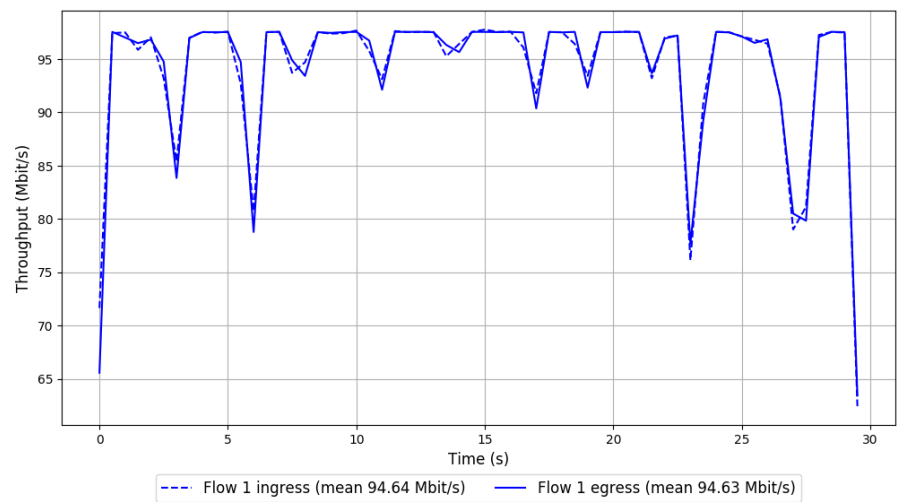
Run 5: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-25 07:20:15
End at: 2018-01-25 07:20:45
Local clock offset: -1.205 ms
Remote clock offset: -17.881 ms

# Below is generated by plot.py at 2018-01-25 12:18:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 32.440 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.71 Mbit/s
95th percentile per-packet one-way delay: 32.440 ms
Loss rate: 0.09%
```
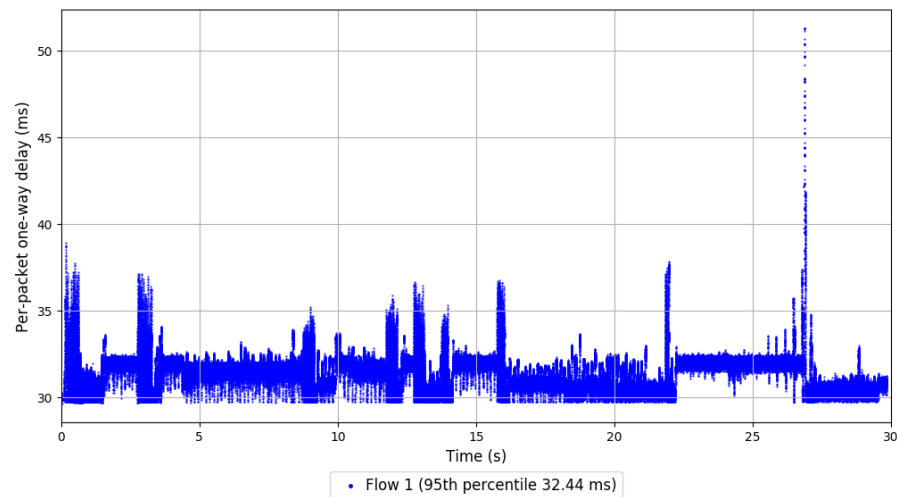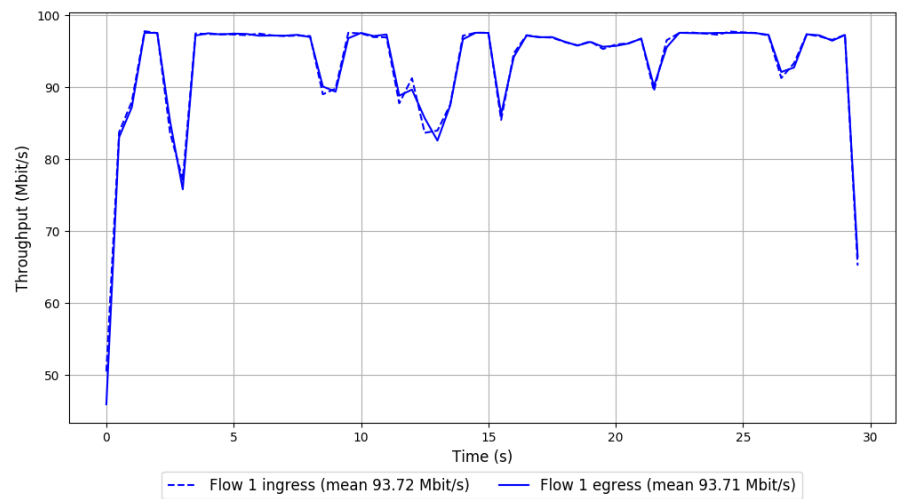
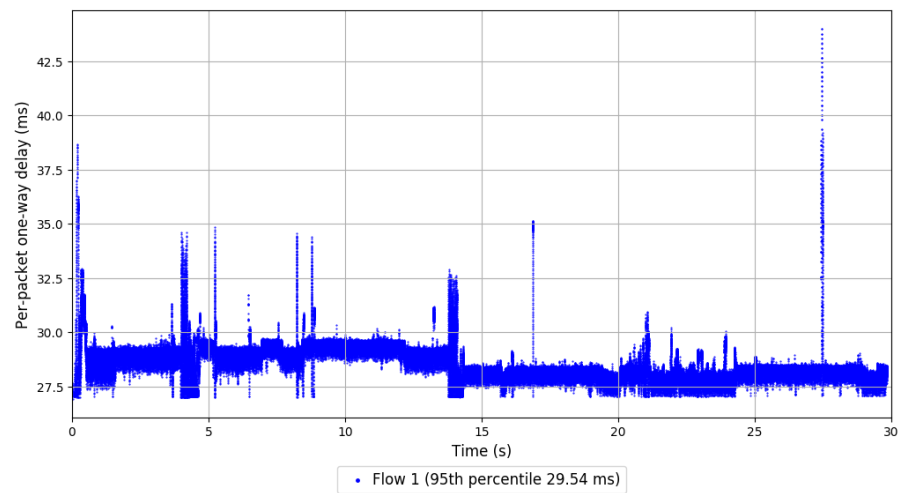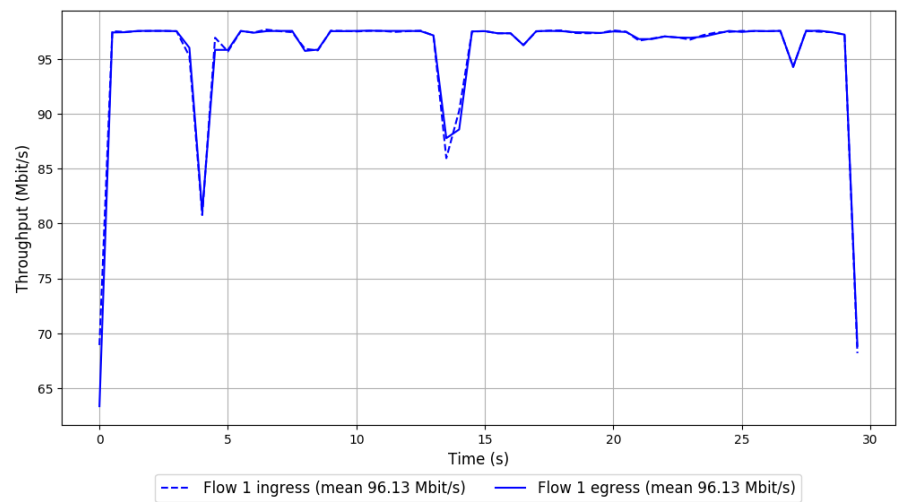Run 6: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-25 07:39:02
End at: 2018-01-25 07:39:32
Local clock offset: -1.697 ms
Remote clock offset: -16.151 ms


# Below is generated by plot.py at 2018-01-25 12:18:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 29.541 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.13 Mbit/s
95th percentile per-packet one-way delay: 29.541 ms
Loss rate: 0.08%
```

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

Flow 1 ingress (mean 96.13 Mbit/s) —— Flow 1 egress (mean 96.13 Mbit/s)

• Flow 1 (95th percentile 29.54 ms)

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

Start at: 2018-01-25 07:57:53
End at: 2018-01-25 07:58:23
Local clock offset: 0.917 ms
Remote clock offset: -17.07 ms


# Below is generated by plot.py at 2018-01-25 12:18:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 33.404 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 33.404 ms
Loss rate: 0.09%
```
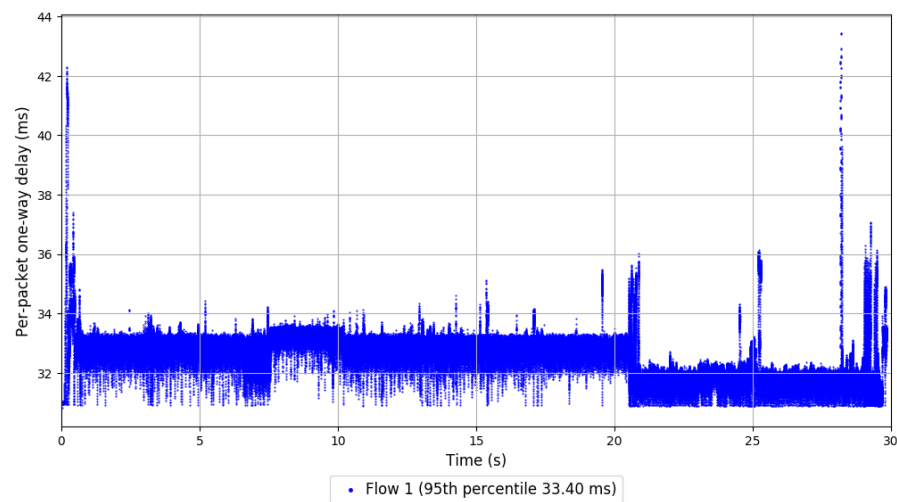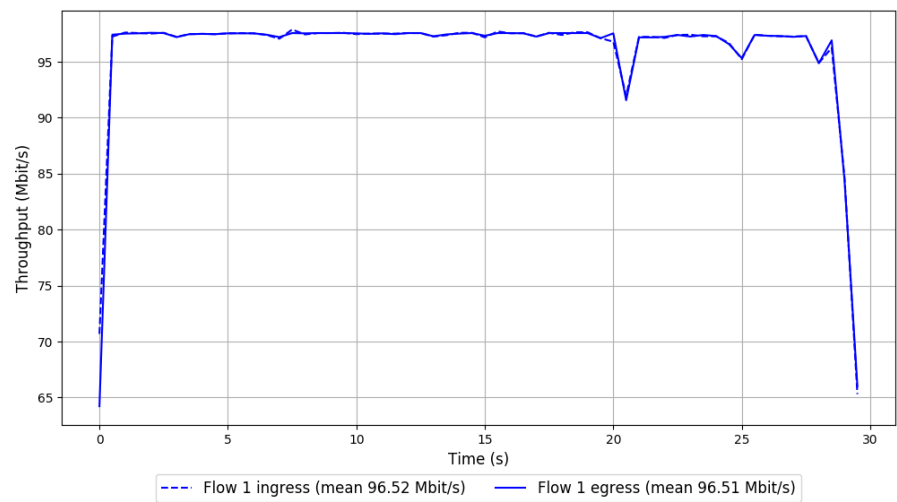
Run 8: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 96.52 Mbit/s)   Flow 1 egress (mean 96.51 Mbit/s)
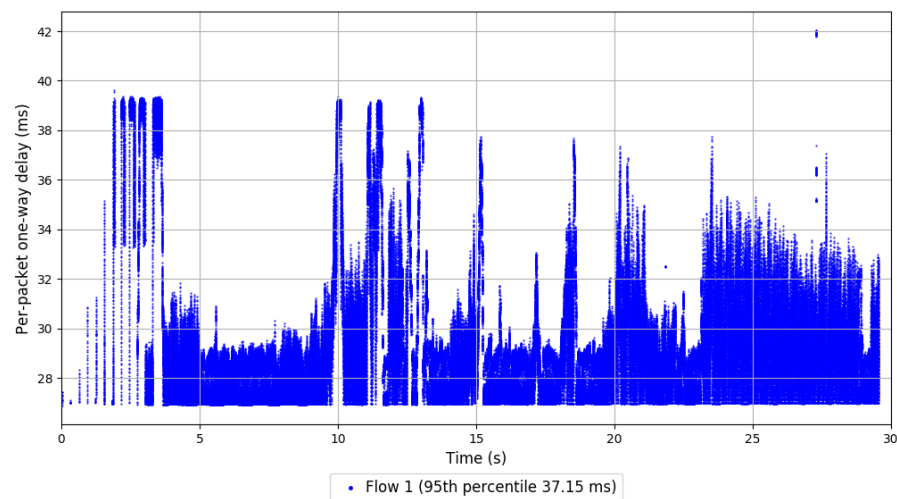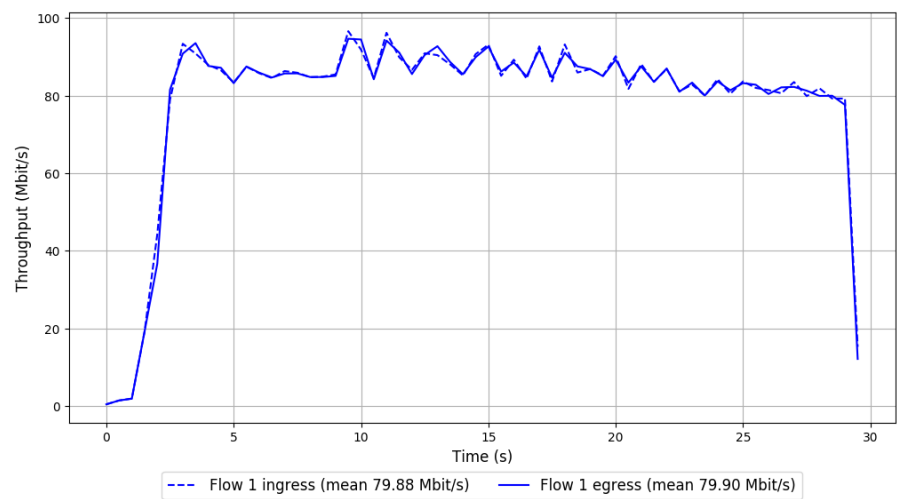

Flow 1 (95th percentile 33.40 ms)

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

Start at: 2018-01-25 08:16:40
End at: 2018-01-25 08:17:10
Local clock offset: -2.764 ms
Remote clock offset: -16.532 ms


# Below is generated by plot.py at 2018-01-25 12:18:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.90 Mbit/s
95th percentile per-packet one-way delay: 37.152 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 79.90 Mbit/s
95th percentile per-packet one-way delay: 37.152 ms
Loss rate: 0.20%
```

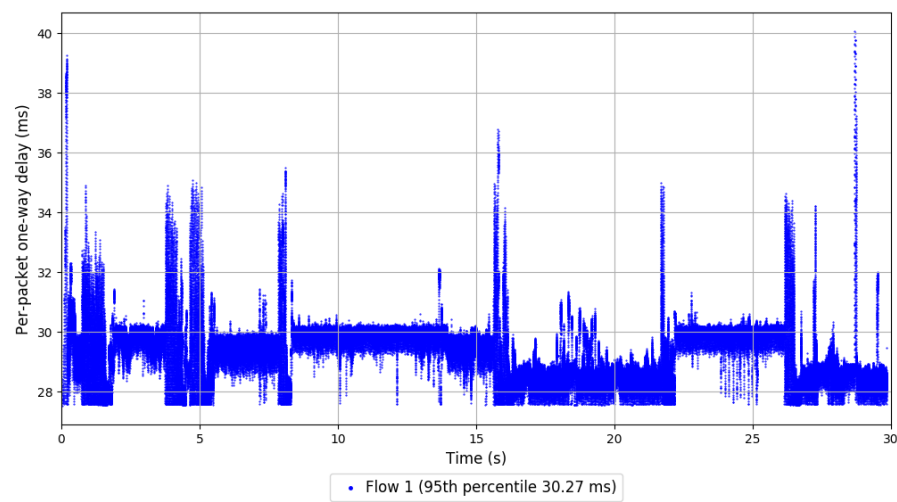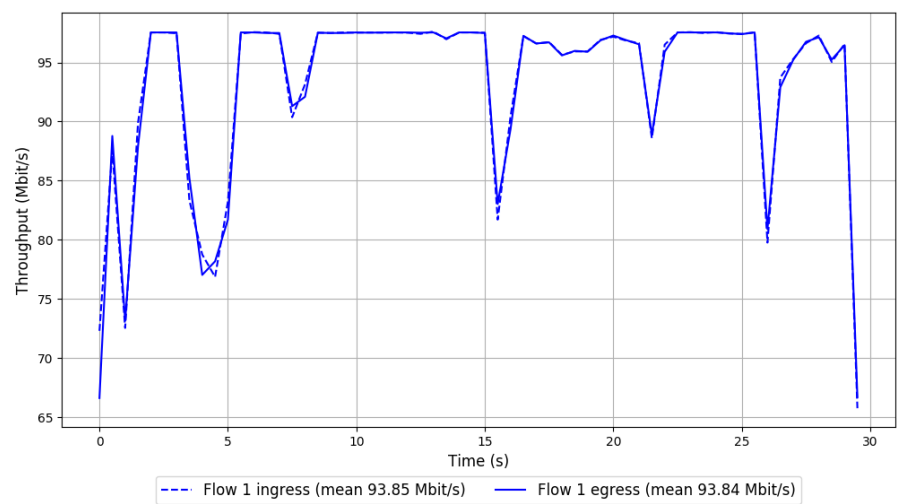# Run 9: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-25 08:35:38
End at: 2018-01-25 08:36:08
Local clock offset: -2.419 ms
Remote clock offset: -16.323 ms


# Below is generated by plot.py at 2018-01-25 12:18:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 30.269 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 30.269 ms
Loss rate: 0.08%
```

Run 10: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 93.85 Mbit/s)   Flow 1 egress (mean 93.84 Mbit/s)

Flow 1 (95th percentile 30.27 ms)

```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-25 05:52:15
End at: 2018-01-25 05:52:45
Local clock offset: -1.784 ms
Remote clock offset: -19.662 ms
```

Run 1: Report of Indigo-1-128 — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of Indigo-1-128

Start at: 2018-01-25 06:11:14
End at: 2018-01-25 06:11:44
Local clock offset: -1.795 ms
Remote clock offset: -19.826 ms

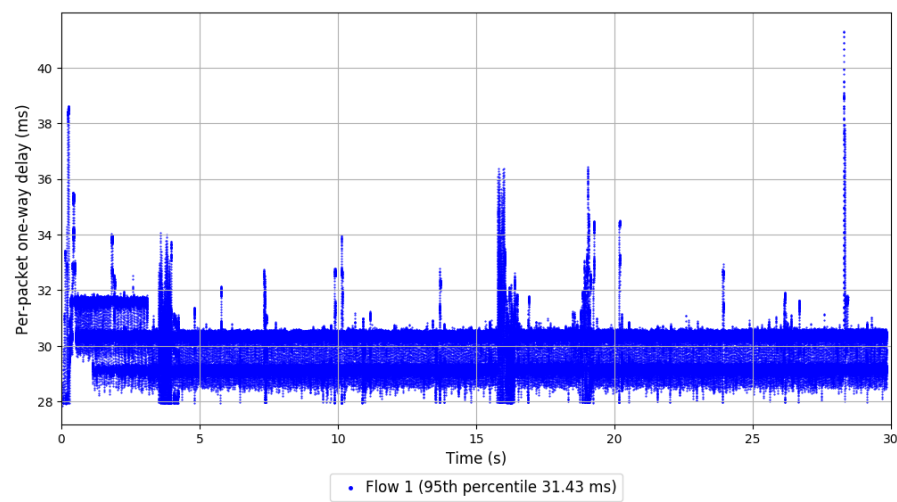Run 2: Report of Indigo-1-128 — Data Link
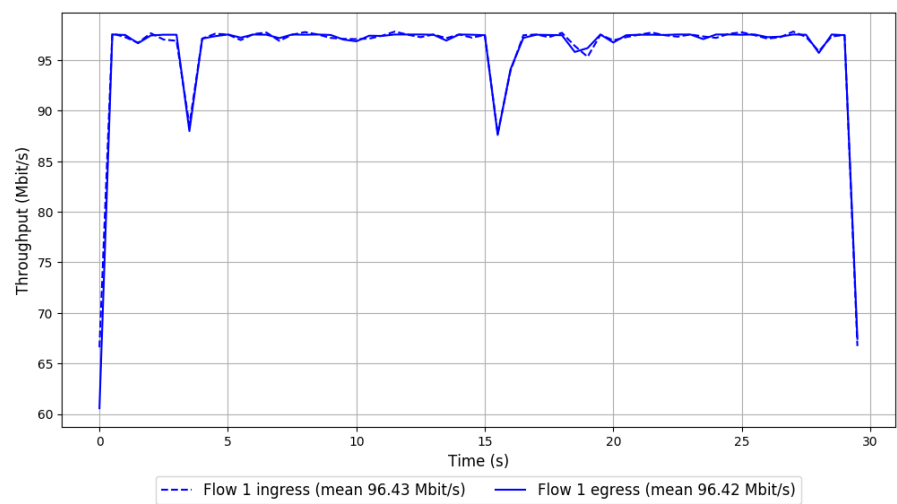
Figure is missing

Figure is missing

```
Run 3: Statistics of Indigo-1-128

Start at: 2018-01-25 06:29:43
End at: 2018-01-25 06:30:13
Local clock offset: -2.282 ms
Remote clock offset: -19.517 ms


# Below is generated by plot.py at 2018-01-25 12:19:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 31.425 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 31.425 ms
Loss rate: 0.09%
```

Run 3: Report of Indigo-1-128 — Data Link

```
Run 4: Statistics of Indigo-1-128

Start at: 2018-01-25 06:48:35
End at: 2018-01-25 06:49:05
Local clock offset: 1.038 ms
Remote clock offset: -15.951 ms
```
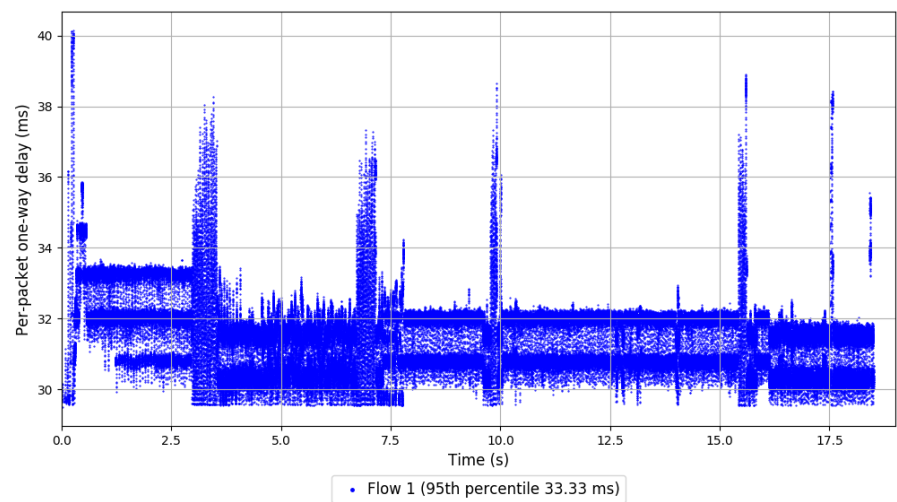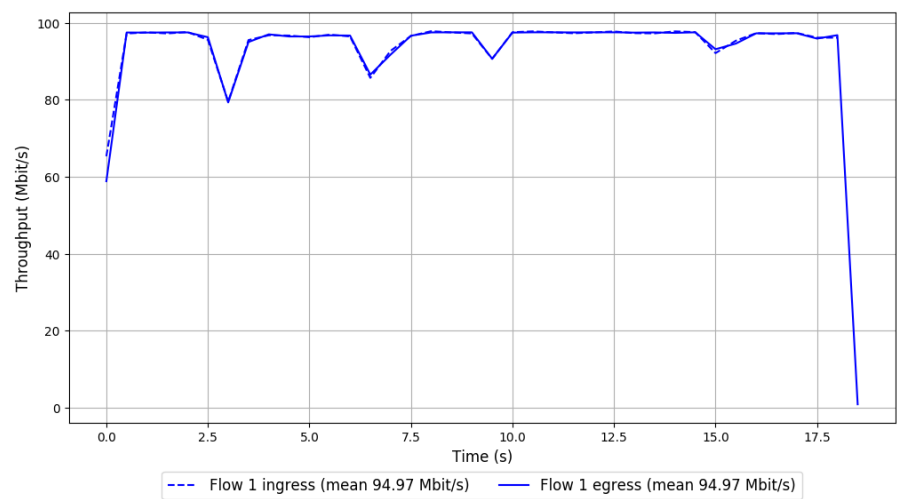
Run 4: Report of Indigo-1-128 — Data Link

Flow 1 ingress (mean 94.97 Mbit/s) ----- Flow 1 egress (mean 94.97 Mbit/s)

Flow 1 (95th percentile 33.33 ms)
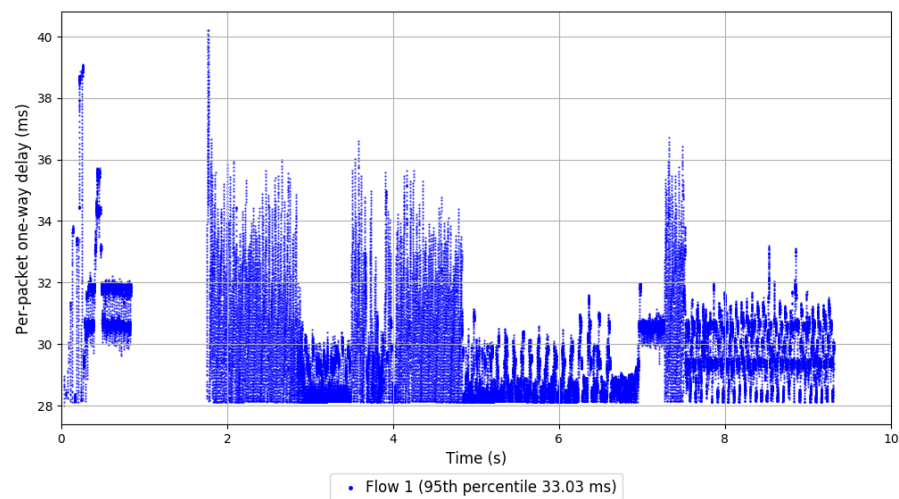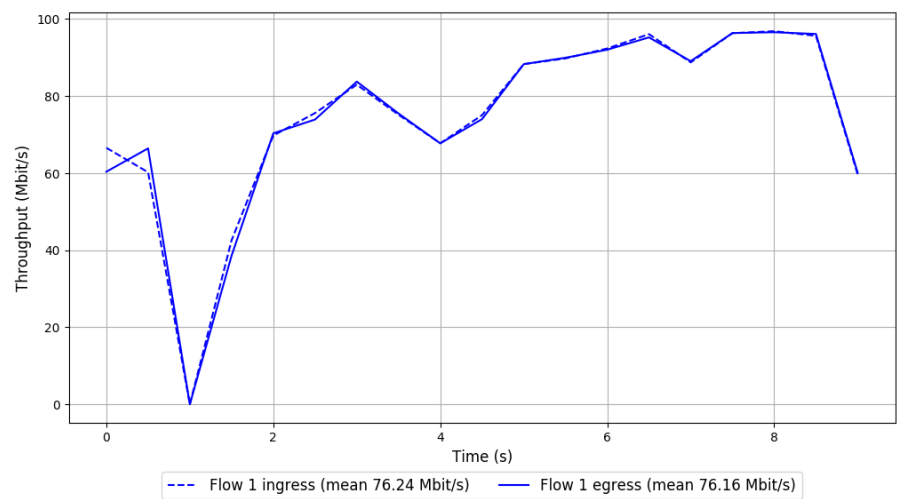
Run 5: Statistics of Indigo-1-128

Start at: 2018-01-25 07:07:24
End at: 2018-01-25 07:07:54
Local clock offset: -2.397 ms
Remote clock offset: -17.675 ms

Run 5: Report of Indigo-1-128 — Data Link
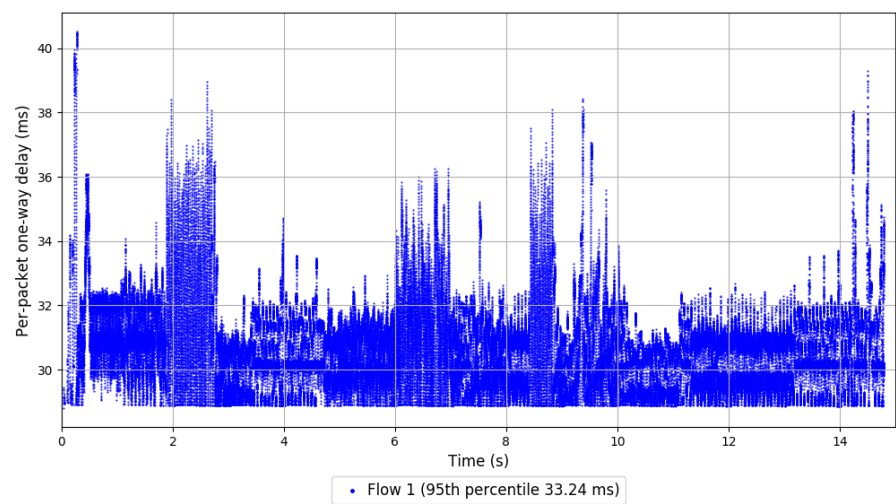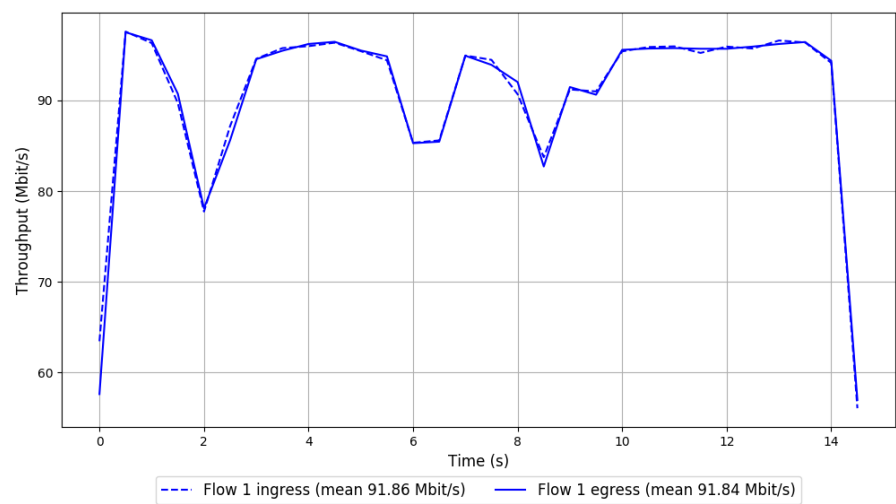
Run 6: Statistics of Indigo-1-128

Start at: 2018-01-25 07:26:10
End at: 2018-01-25 07:26:40
Local clock offset: -0.745 ms
Remote clock offset: -16.766 ms

Run 6: Report of Indigo-1-128 — Data Link

Flow 1 ingress (mean 91.86 Mbit/s) ---- Flow 1 egress (mean 91.84 Mbit/s)

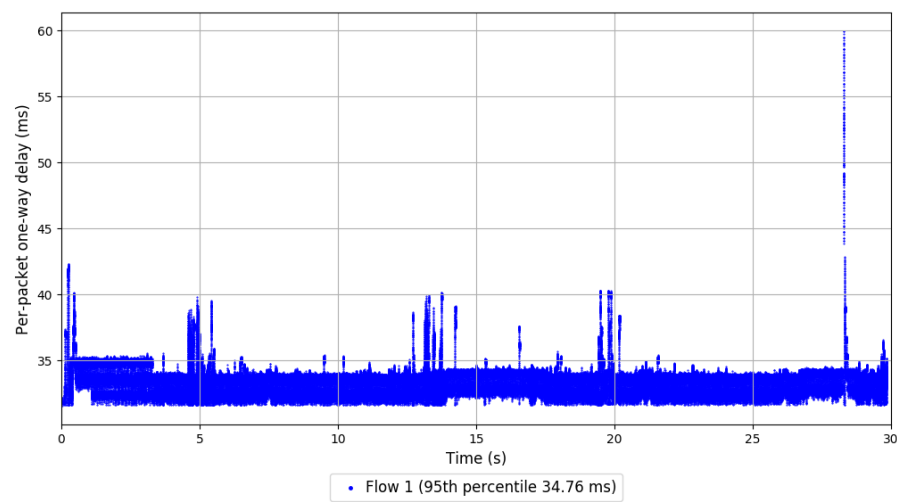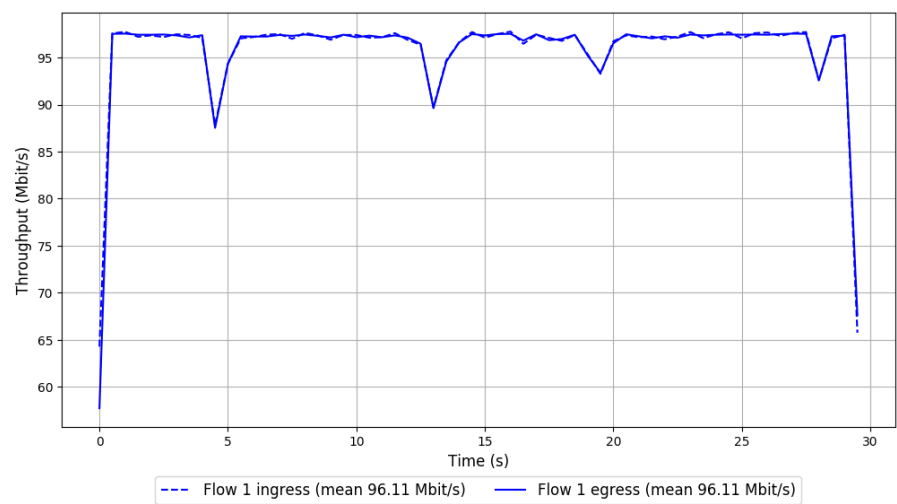

• Flow 1 (95th percentile 33.24 ms)

```
Run 7: Statistics of Indigo-1-128

Start at: 2018-01-25 07:44:59
End at: 2018-01-25 07:45:29
Local clock offset: 2.472 ms
Remote clock offset: -16.27 ms


# Below is generated by plot.py at 2018-01-25 12:19:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 34.757 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 96.11 Mbit/s
95th percentile per-packet one-way delay: 34.757 ms
Loss rate: 0.08%
```

Run 7: Report of Indigo-1-128 — Data Link

```
Run 8: Statistics of Indigo-1-128

Start at: 2018-01-25 08:03:51
End at: 2018-01-25 08:04:21
Local clock offset: 2.588 ms
Remote clock offset: -14.991 ms


# Below is generated by plot.py at 2018-01-25 12:19:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 32.913 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 32.913 ms
Loss rate: 0.07%
```
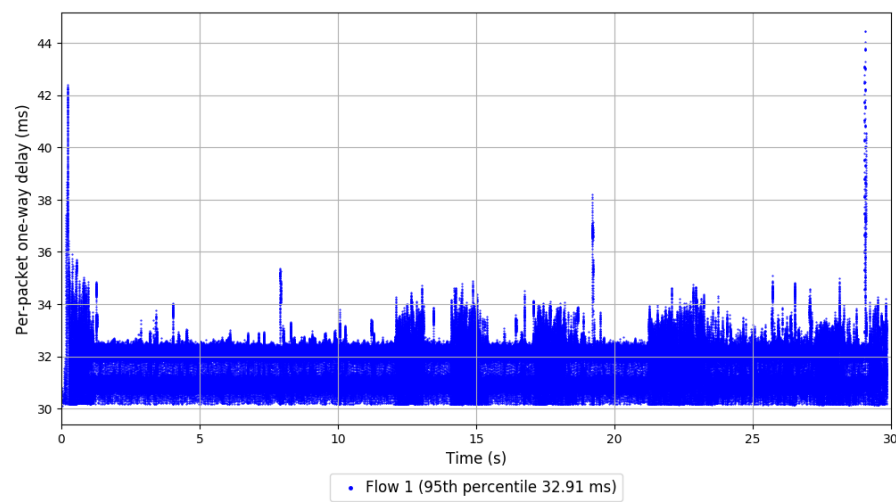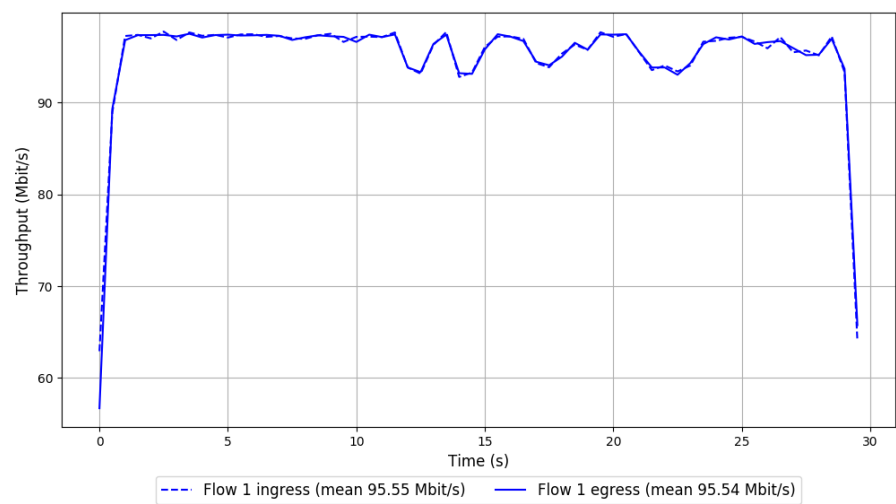
Run 8: Report of Indigo-1-128 — Data Link

Flow 1 ingress (mean 95.55 Mbit/s) --- Flow 1 egress (mean 95.54 Mbit/s)

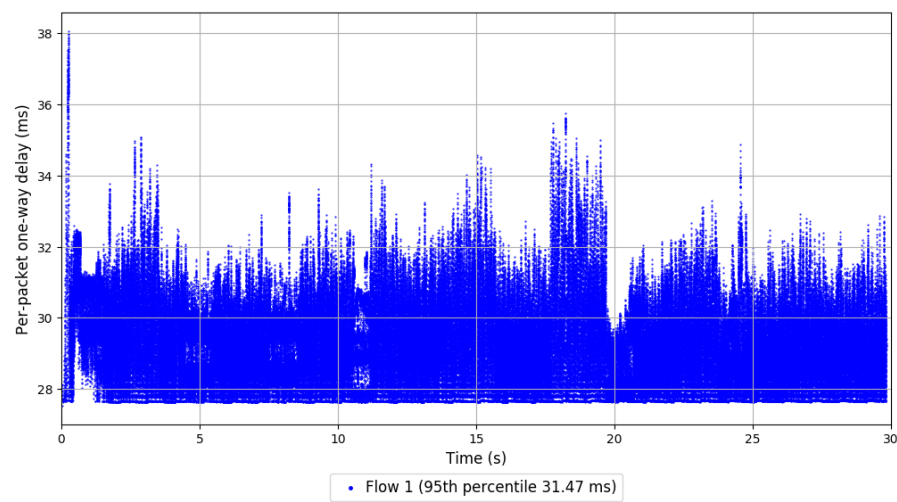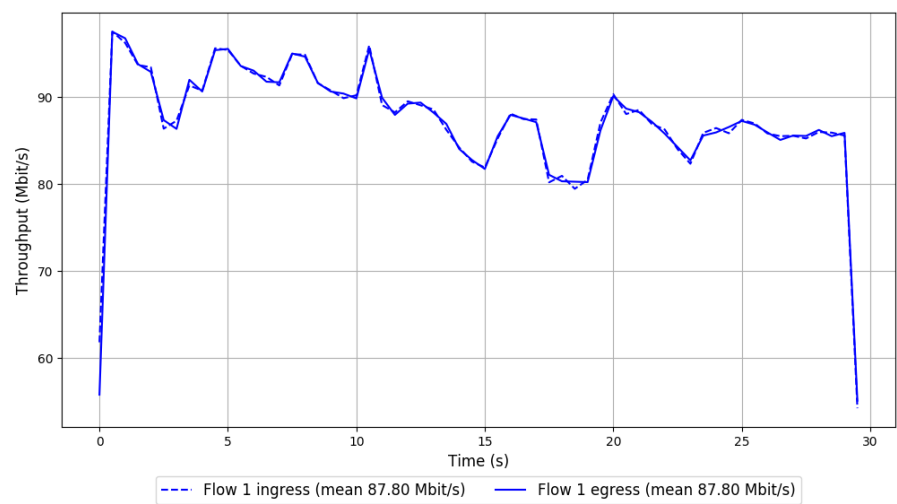

• Flow 1 (95th percentile 32.91 ms)

```
Run 9: Statistics of Indigo-1-128

Start at: 2018-01-25 08:22:52
End at: 2018-01-25 08:23:22
Local clock offset: -3.613 ms
Remote clock offset: -17.547 ms

# Below is generated by plot.py at 2018-01-25 12:19:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.80 Mbit/s
95th percentile per-packet one-way delay: 31.466 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 87.80 Mbit/s
95th percentile per-packet one-way delay: 31.466 ms
Loss rate: 0.08%
```

Run 9: Report of Indigo-1-128 — Data Link

```
Run 10: Statistics of Indigo-1-128

Start at: 2018-01-25 08:41:25
End at: 2018-01-25 08:41:55
Local clock offset: -3.055 ms
Remote clock offset: -16.242 ms


# Below is generated by plot.py at 2018-01-25 12:19:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 30.344 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 93.03 Mbit/s
95th percentile per-packet one-way delay: 30.344 ms
Loss rate: 0.08%
```

Run 10: Report of Indigo-1-128 — Data Link

Flow 1 ingress (mean 93.04 Mbit/s)   Flow 1 egress (mean 93.03 Mbit/s)

• Flow 1 (95th percentile 30.34 ms)