# Pantheon Report

Generated at 2017-09-23 07:42:20 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

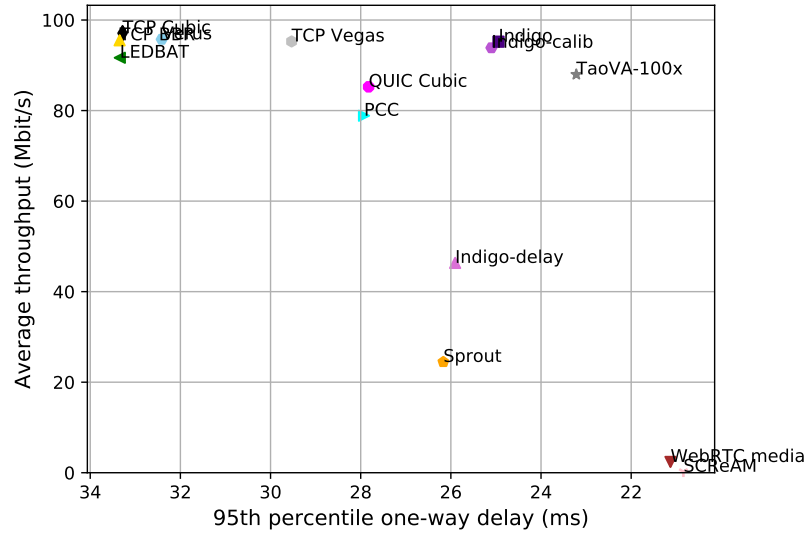Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

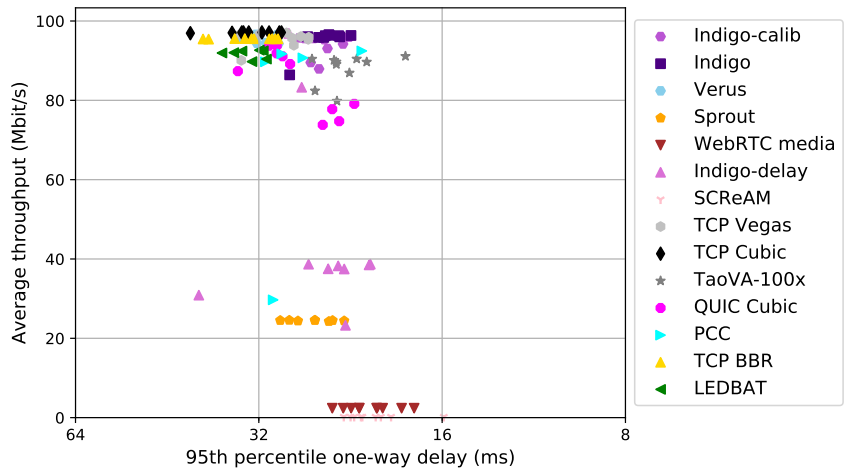NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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/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 | 95.52 | 33.35 | 0.13 |
| TCP Cubic | 9 | 97.09 | 33.28 | 0.13 |
| LEDBAT | 7 | 91.66 | 33.34 | 0.14 |
| PCC | 5 | 78.86 | 27.93 | 0.11 |
| QUIC Cubic | 10 | 85.25 | 27.82 | 0.10 |
| SCReAM | 9 | 0.21 | 20.84 | 0.09 |
| WebRTC media | 10 | 2.38 | 21.13 | 0.11 |
| Sprout | 8 | 24.48 | 26.17 | 0.10 |
| TaoVA-100x | 10 | 87.97 | 23.22 | 0.10 |
| TCP Vegas | 9 | 95.26 | 29.53 | 0.09 |
| Verus | 10 | 95.74 | 32.41 | 0.13 |
| Indigo | 10 | 95.22 | 24.94 | 0.11 |
| Indigo-calib | 10 | 93.87 | 25.10 | 0.11 |
| Indigo-delay | 10 | 46.35 | 25.91 | 0.09 |

```
Run 1: Statistics of TCP BBR

Start at: 2017-09-23 00:38:13
End at: 2017-09-23 00:38:44
Local clock offset: 0.738 ms
Remote clock offset: -5.849 ms


# Below is generated by plot.py at 2017-09-23 07:24:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 35.053 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 35.053 ms
Loss rate: 0.13%
```
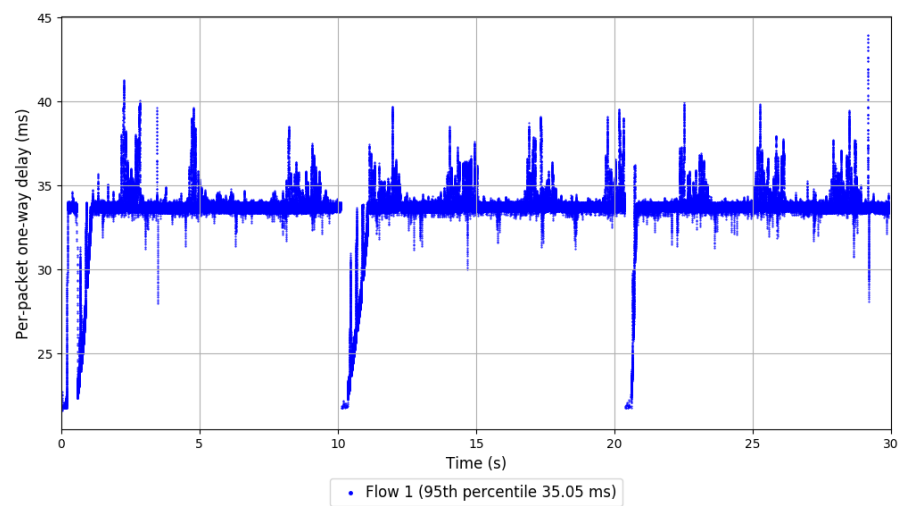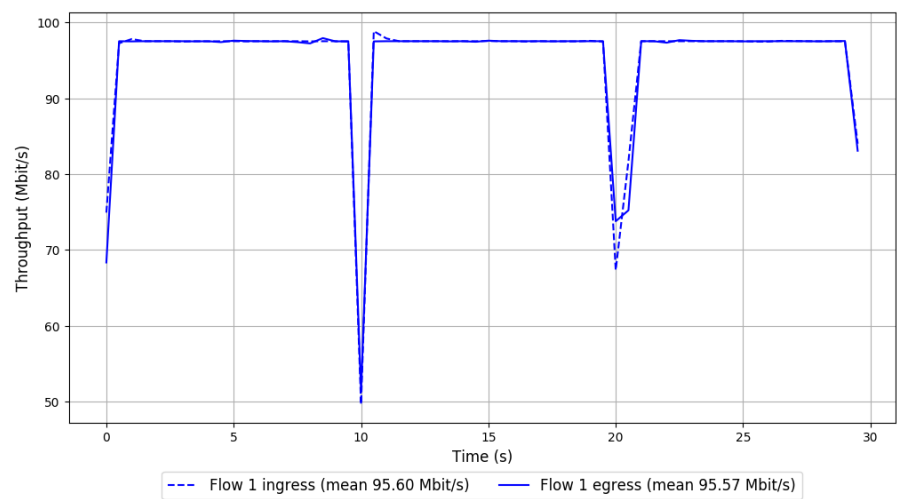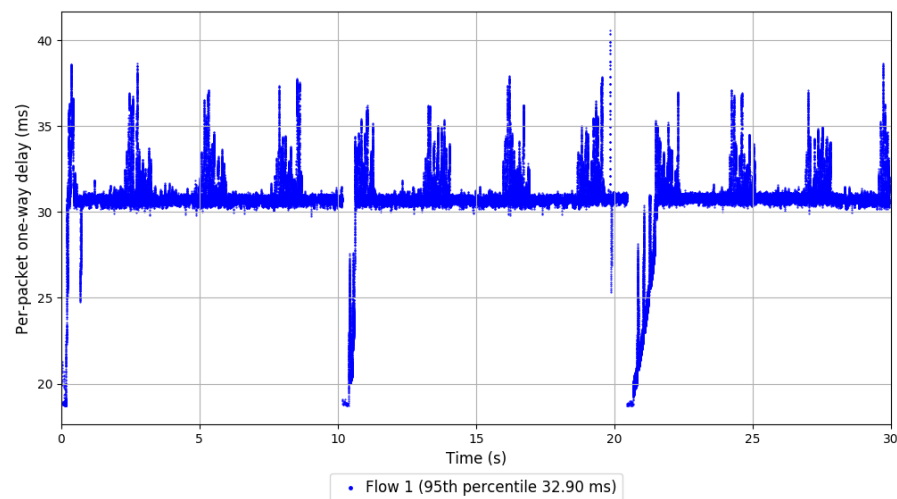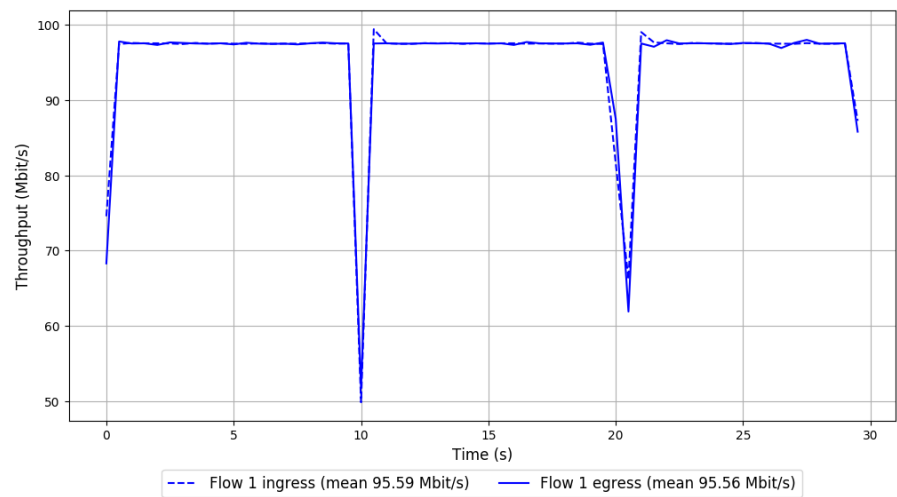
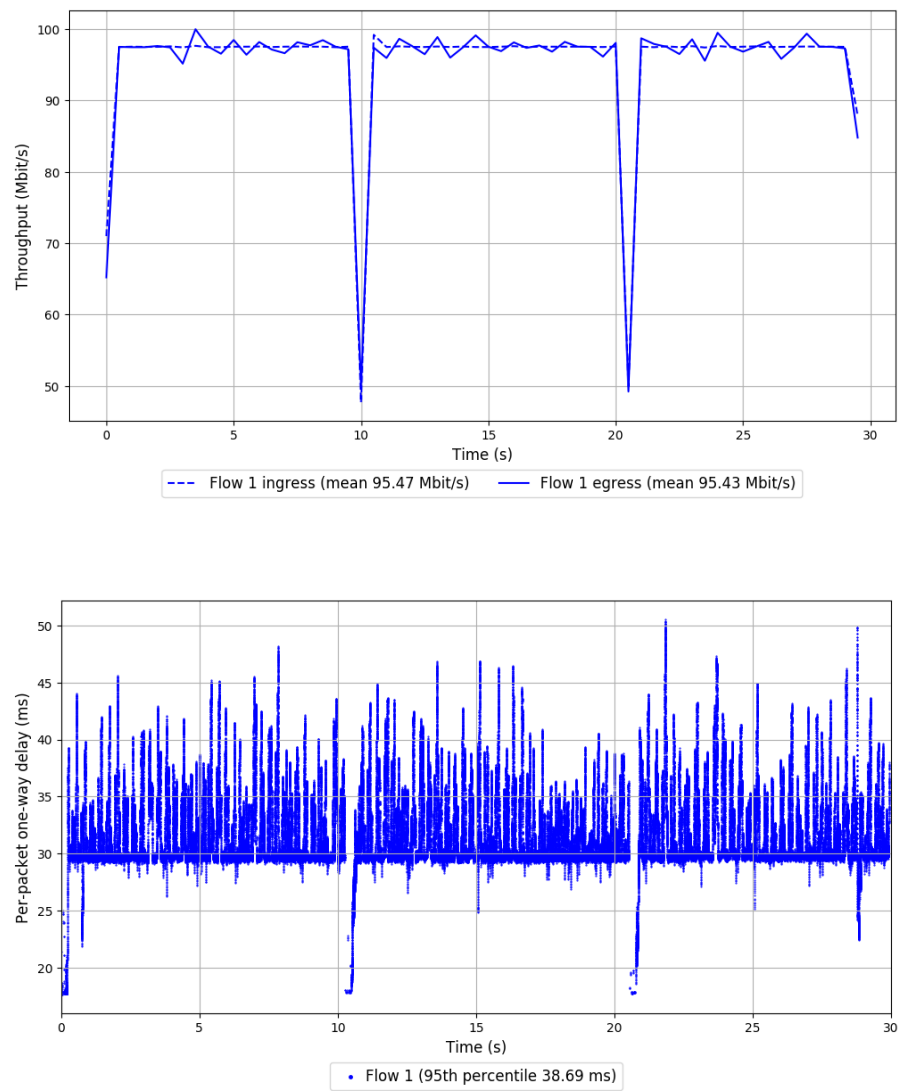Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2017-09-23 00:56:39
End at: 2017-09-23 00:57:09
Local clock offset: -2.031 ms
Remote clock offset: -6.156 ms


# Below is generated by plot.py at 2017-09-23 07:24:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 32.895 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 32.895 ms
Loss rate: 0.13%
```
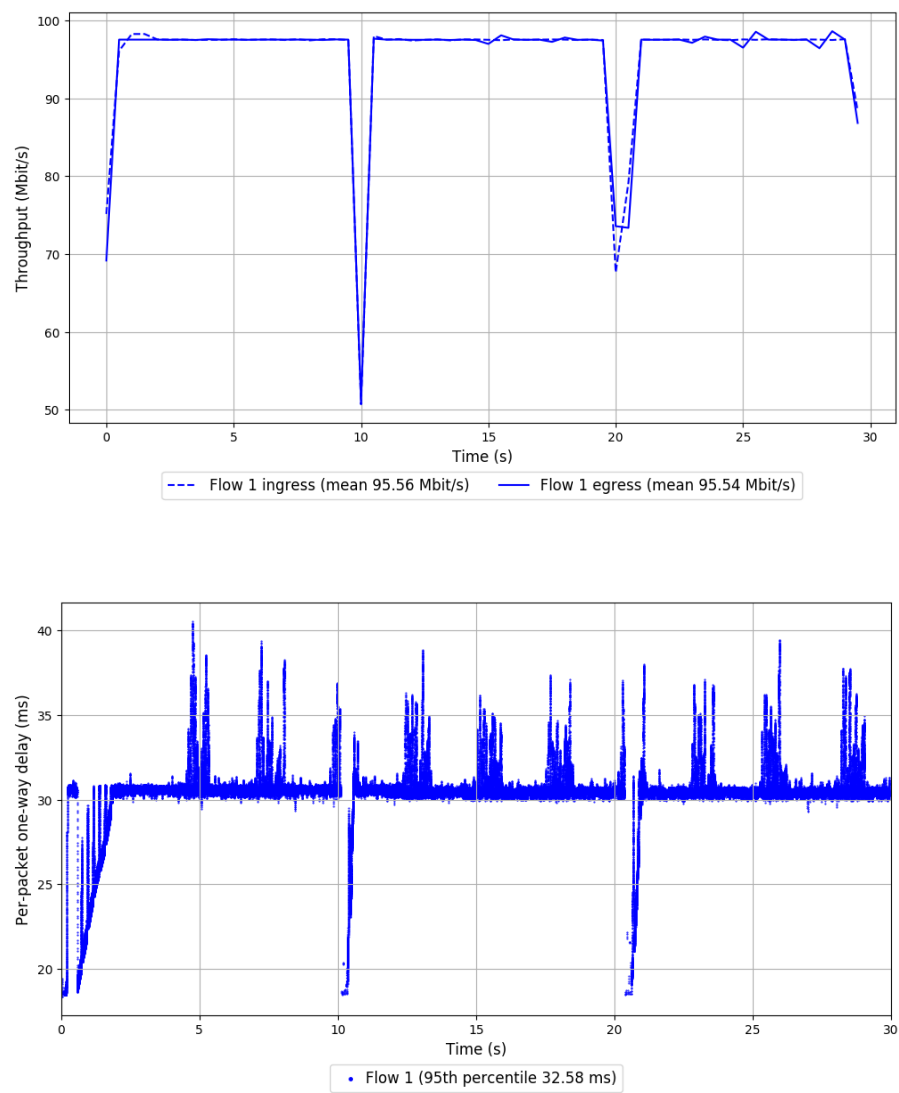
Run 2: Report of TCP BBR — Data Link



Flow 1 ingress (mean 95.59 Mbit/s)    Flow 1 egress (mean 95.56 Mbit/s)



Flow 1 (95th percentile 32.90 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2017-09-23 01:25:57
End at: 2017-09-23 01:26:27
Local clock offset: -1.064 ms
Remote clock offset: -4.547 ms


# Below is generated by plot.py at 2017-09-23 07:24:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 38.694 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 38.694 ms
Loss rate: 0.16%
```
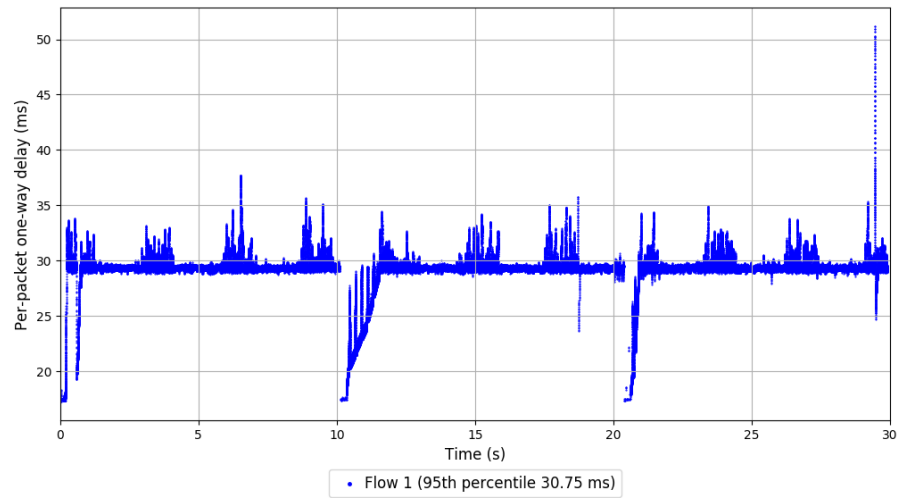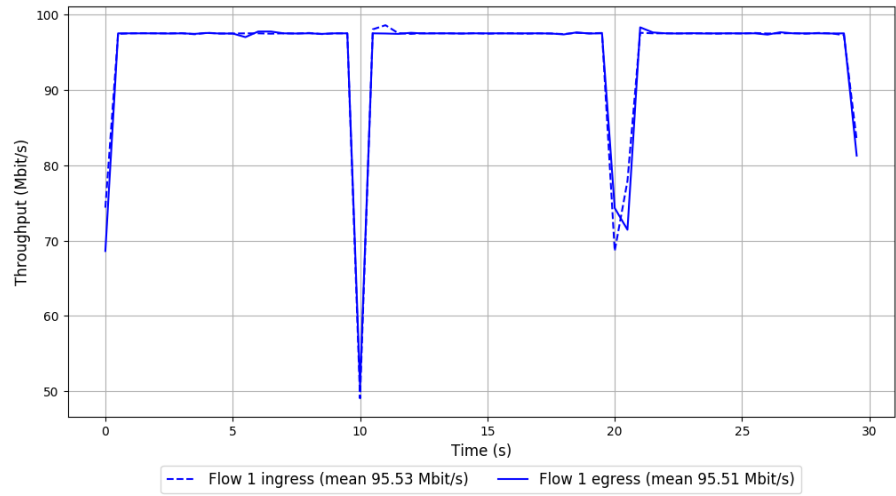
Run 3: Report of TCP BBR — Data Link



Flow 1 ingress (mean 95.47 Mbit/s)     Flow 1 egress (mean 95.43 Mbit/s)



Flow 1 (95th percentile 38.69 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2017-09-23 01:51:15
End at: 2017-09-23 01:51:45
Local clock offset: 0.651 ms
Remote clock offset: -4.235 ms


# Below is generated by plot.py at 2017-09-23 07:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 32.581 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 32.581 ms
Loss rate: 0.13%
```

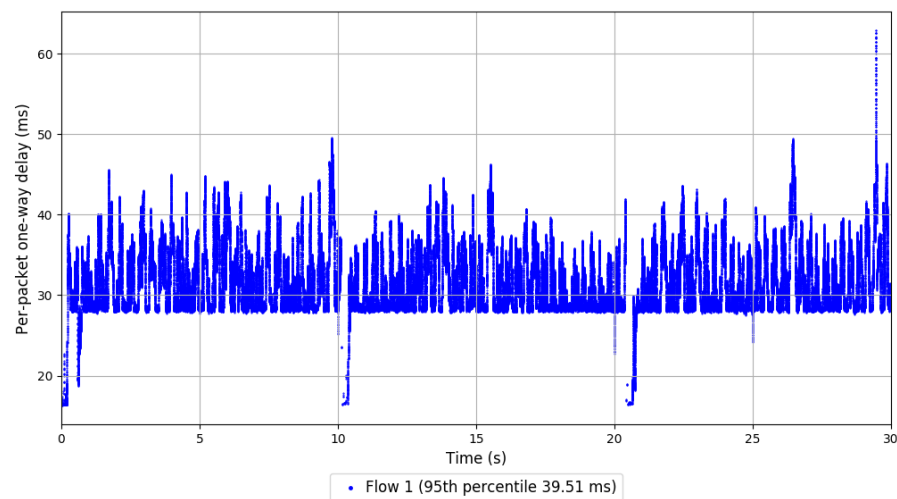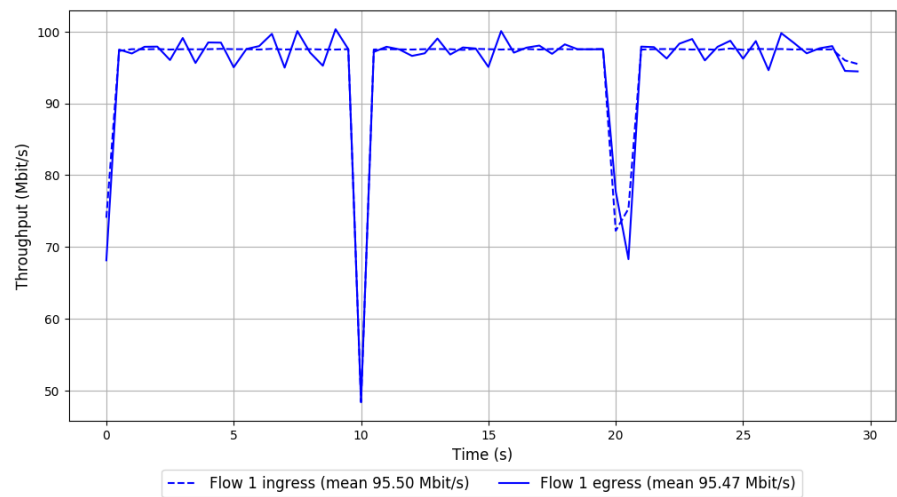# Run 4: Report of TCP BBR — Data Link



Flow 1 ingress (mean 95.56 Mbit/s)     Flow 1 egress (mean 95.54 Mbit/s)



• Flow 1 (95th percentile 32.58 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2017-09-23 02:09:53
End at: 2017-09-23 02:10:23
Local clock offset: -1.229 ms
Remote clock offset: -4.809 ms


# Below is generated by plot.py at 2017-09-23 07:24:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 30.753 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 30.753 ms
Loss rate: 0.13%
```
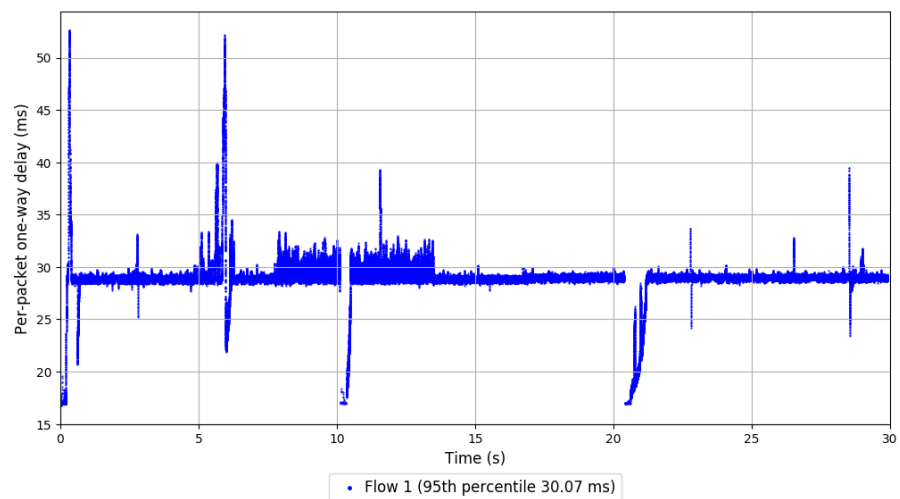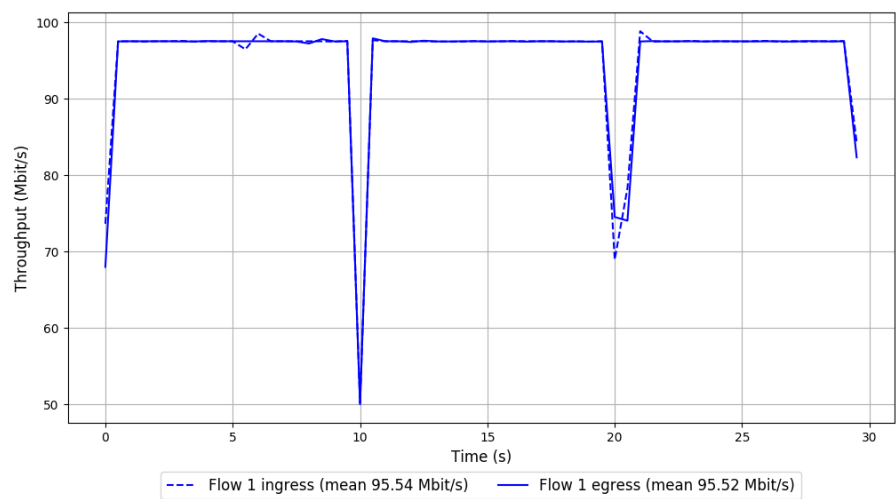
Run 5: Report of TCP BBR — Data Link

```
Run 6: Statistics of TCP BBR

Start at: 2017-09-23 02:31:34
End at: 2017-09-23 02:32:04
Local clock offset: -0.901 ms
Remote clock offset: -3.712 ms


# Below is generated by plot.py at 2017-09-23 07:24:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 39.513 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 39.513 ms
Loss rate: 0.14%
```
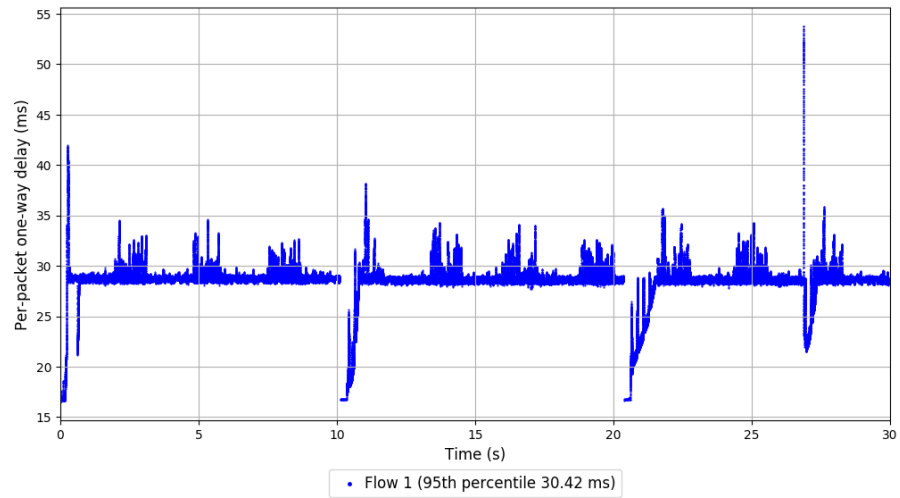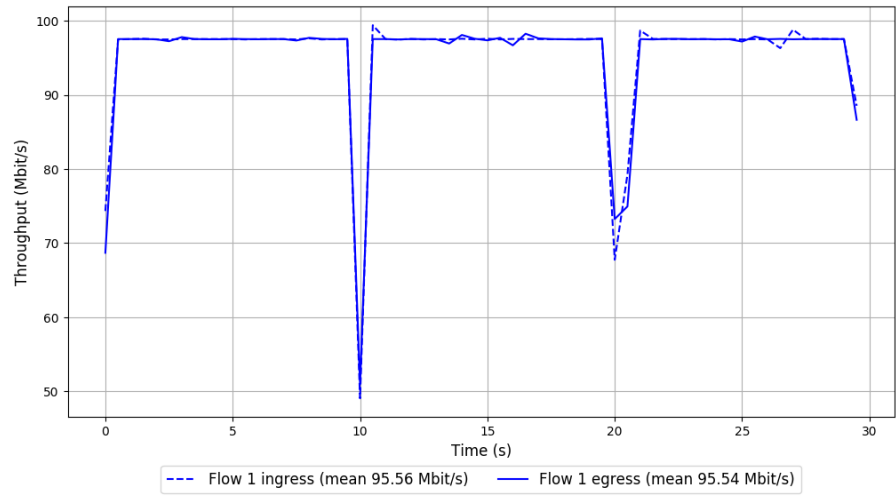
# Run 6: Report of TCP BBR — Data Link



Flow 1 ingress (mean 95.50 Mbit/s) --- Flow 1 egress (mean 95.47 Mbit/s)



Flow 1 (95th percentile 39.51 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2017-09-23 03:20:01
End at: 2017-09-23 03:20:31
Local clock offset: -0.269 ms
Remote clock offset: -4.066 ms


# Below is generated by plot.py at 2017-09-23 07:24:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.52 Mbit/s
95th percentile per-packet one-way delay: 30.068 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.52 Mbit/s
95th percentile per-packet one-way delay: 30.068 ms
Loss rate: 0.13%
```
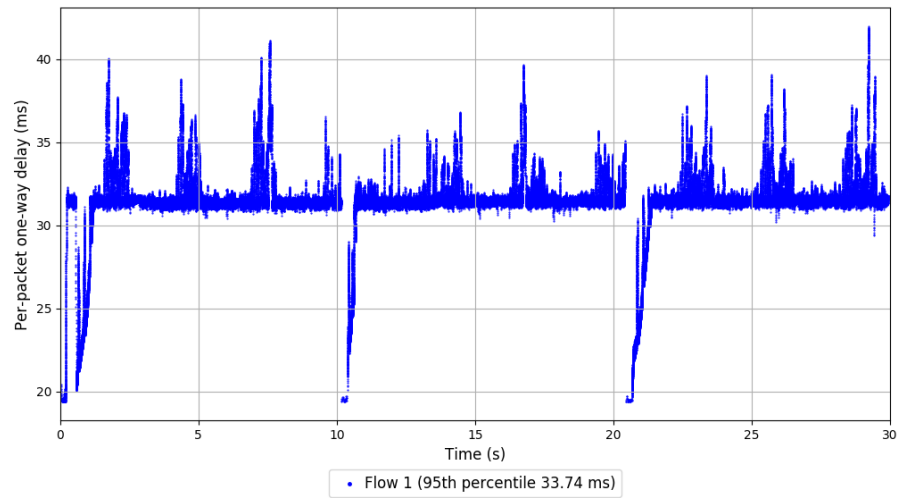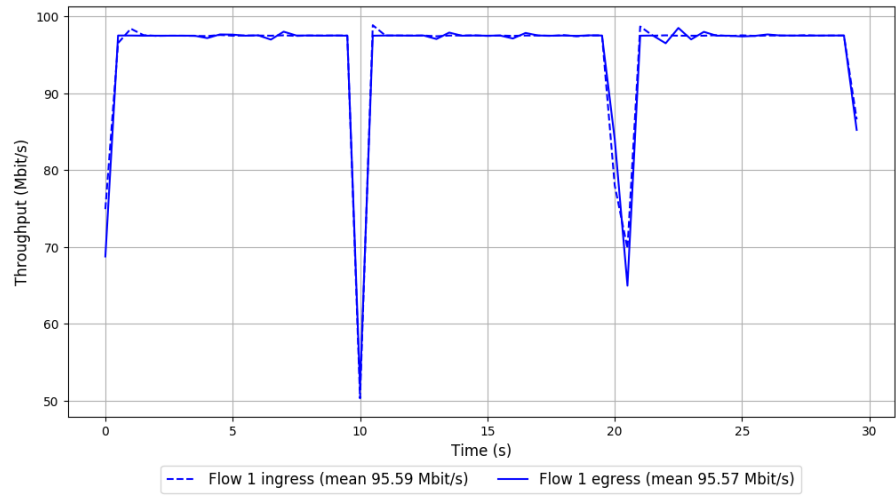
Run 7: Report of TCP BBR — Data Link



Flow 1 ingress (mean 95.54 Mbit/s)    Flow 1 egress (mean 95.52 Mbit/s)



Flow 1 (95th percentile 30.07 ms)

17

```
Run 8: Statistics of TCP BBR

Start at: 2017-09-23 03:40:01
End at: 2017-09-23 03:40:31
Local clock offset: -1.038 ms
Remote clock offset: -3.996 ms


# Below is generated by plot.py at 2017-09-23 07:24:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 30.418 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 30.418 ms
Loss rate: 0.13%
```
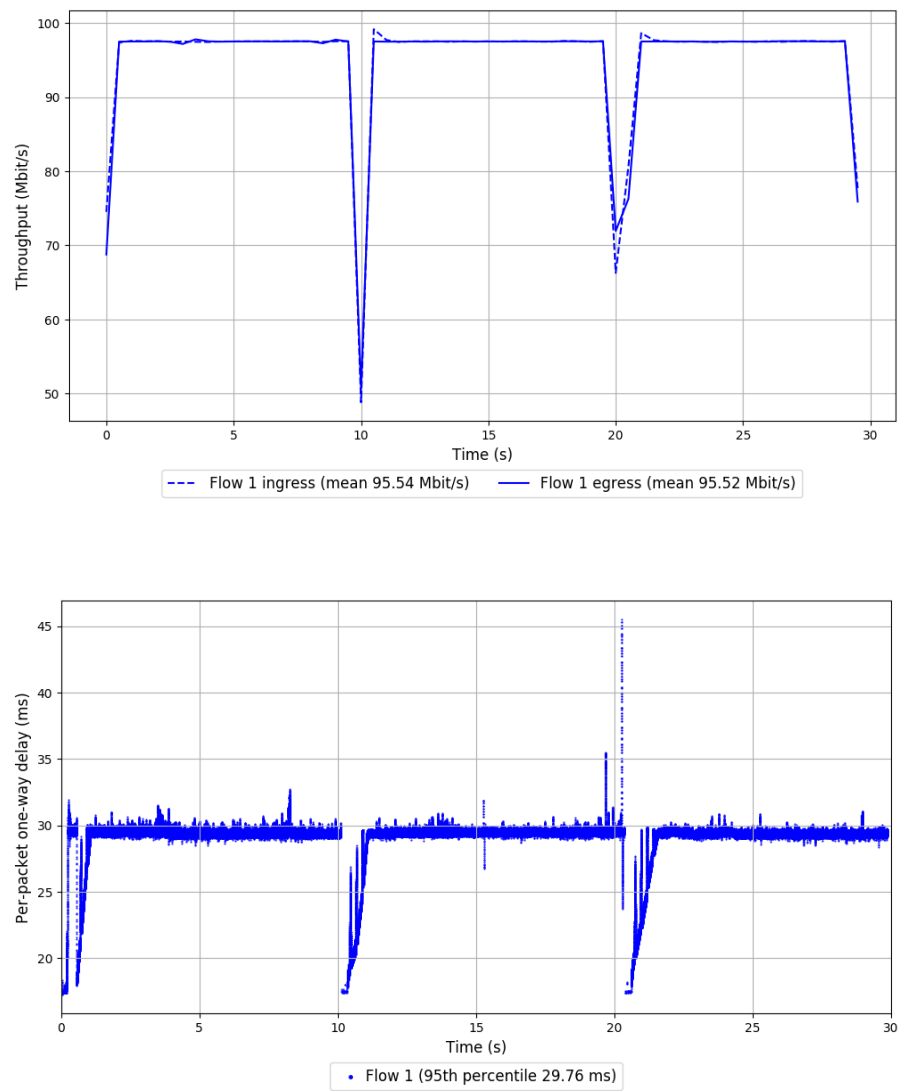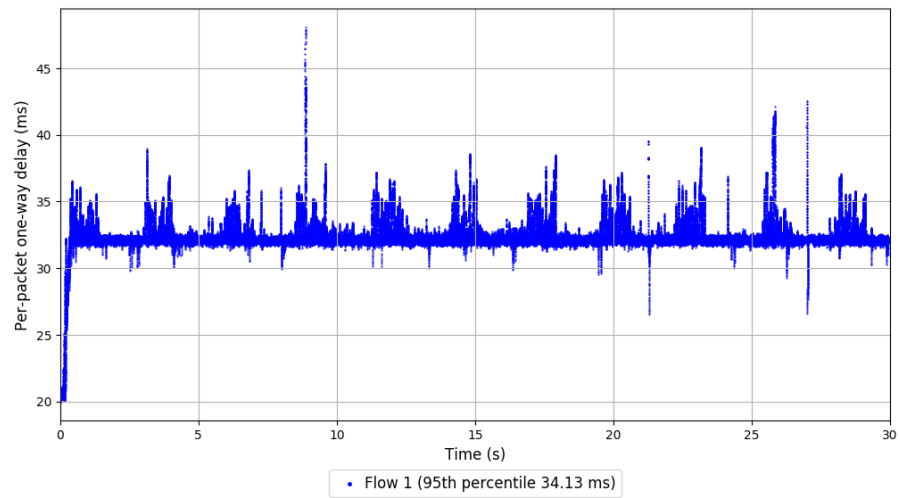
## Run 8: Report of TCP BBR — Data Link



Flow 1 ingress (mean 95.56 Mbit/s)   Flow 1 egress (mean 95.54 Mbit/s)



Flow 1 (95th percentile 30.42 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2017-09-23 04:00:22
End at: 2017-09-23 04:00:52
Local clock offset: 0.837 ms
Remote clock offset: -4.712 ms


# Below is generated by plot.py at 2017-09-23 07:26:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 33.743 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 33.743 ms
Loss rate: 0.13%
```

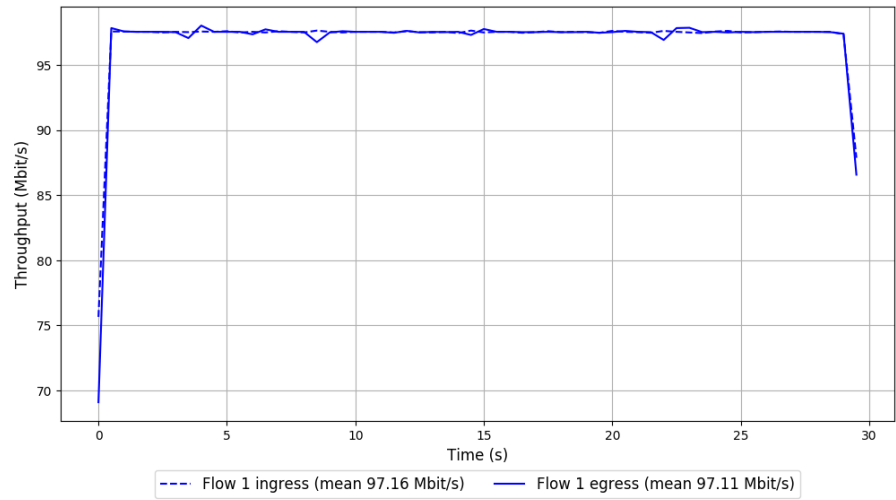## Run 9: Report of TCP BBR — Data Link

```
Run 10: Statistics of TCP BBR

Start at: 2017-09-23 04:17:56
End at: 2017-09-23 04:18:26
Local clock offset: -0.95 ms
Remote clock offset: -4.663 ms


# Below is generated by plot.py at 2017-09-23 07:26:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.52 Mbit/s
95th percentile per-packet one-way delay: 29.761 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.52 Mbit/s
95th percentile per-packet one-way delay: 29.761 ms
Loss rate: 0.13%
```
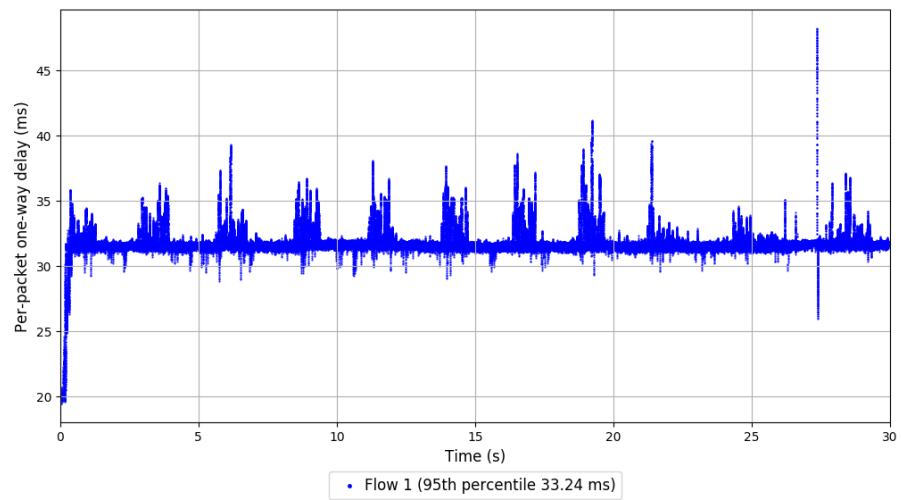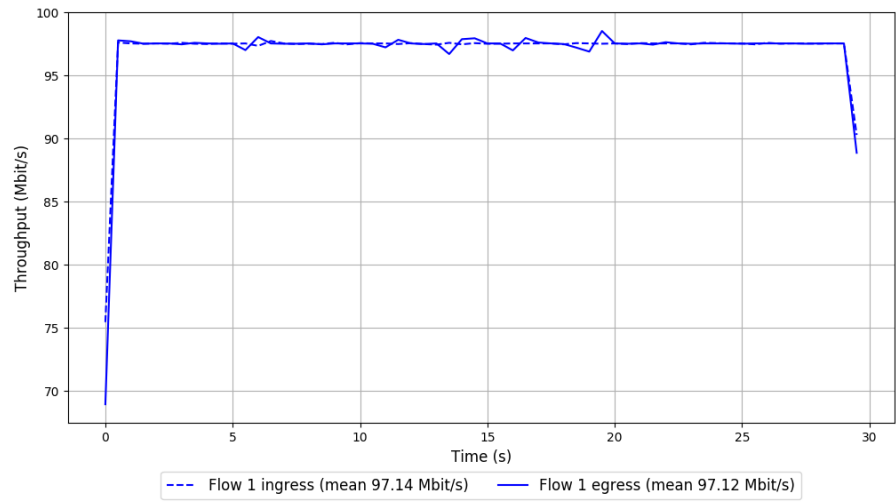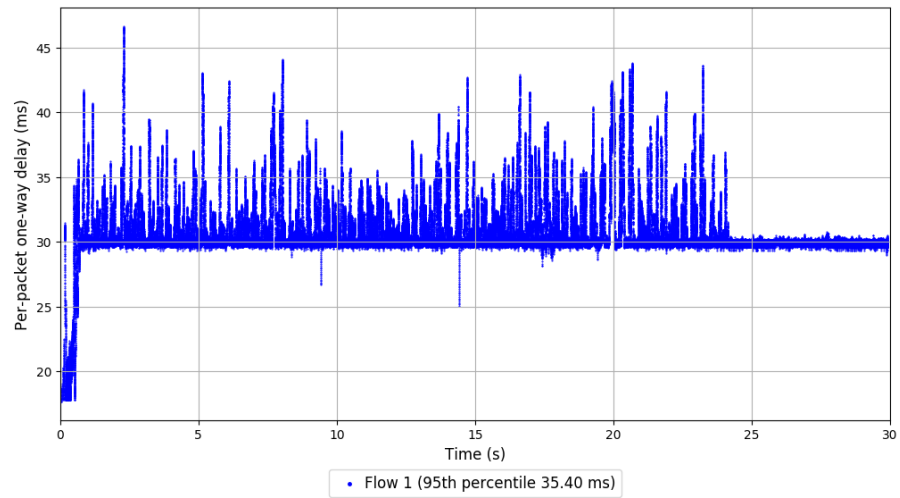
Run 10: Report of TCP BBR — Data Link



Flow 1 ingress (mean 95.54 Mbit/s)   Flow 1 egress (mean 95.52 Mbit/s)



· Flow 1 (95th percentile 29.76 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2017-09-23 00:42:01
End at: 2017-09-23 00:42:31
Local clock offset: -0.605 ms
Remote clock offset: -5.561 ms


# Below is generated by plot.py at 2017-09-23 07:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 34.131 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 34.131 ms
Loss rate: 0.14%
```
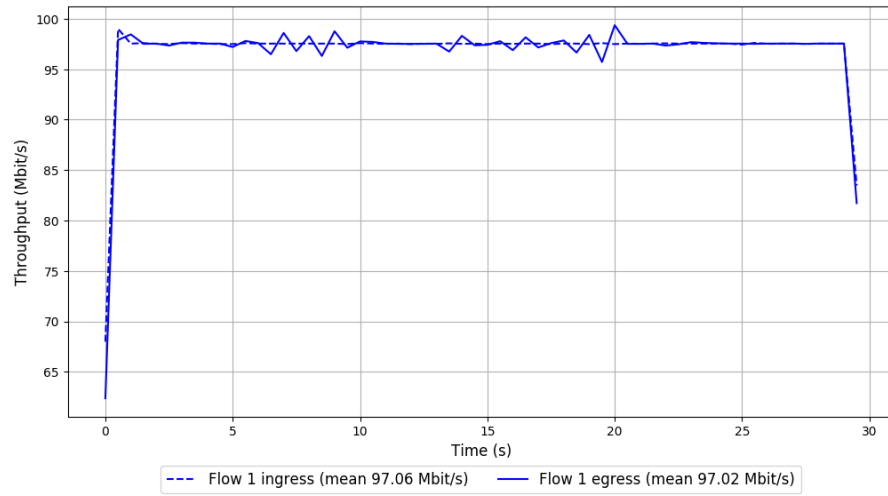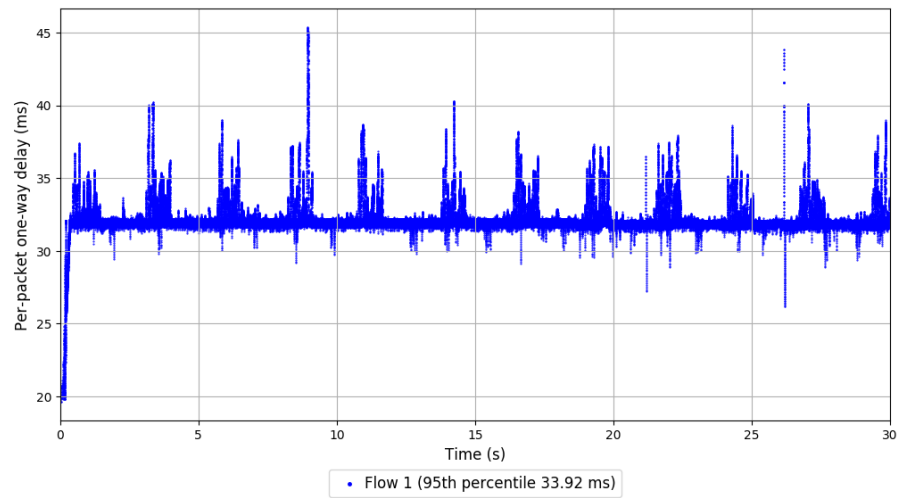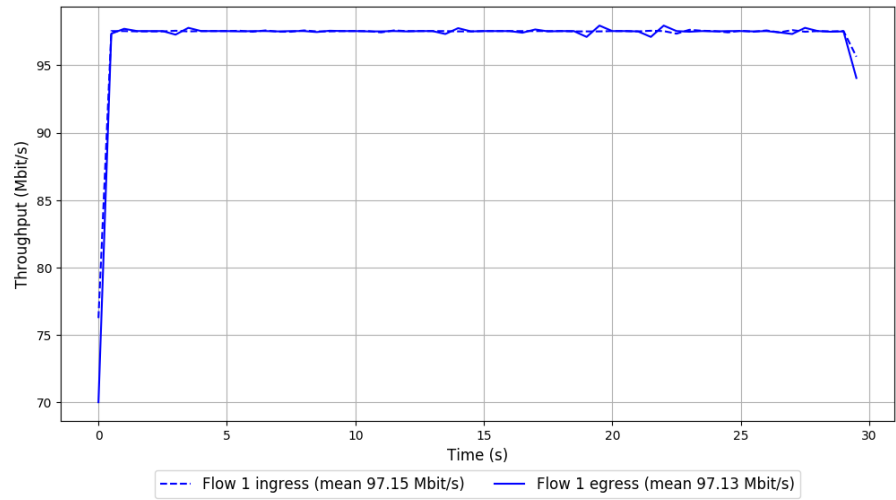
Run 1: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 97.16 Mbit/s)    Flow 1 egress (mean 97.11 Mbit/s)



• Flow 1 (95th percentile 34.13 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2017-09-23 01:00:38
End at: 2017-09-23 01:01:08
Local clock offset: -1.6 ms
Remote clock offset: -6.74 ms


# Below is generated by plot.py at 2017-09-23 07:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 33.244 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 33.244 ms
Loss rate: 0.13%
```

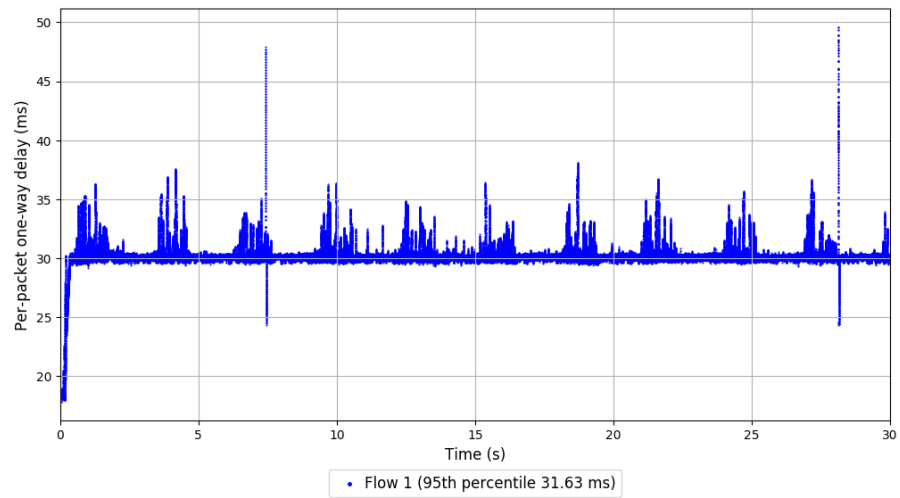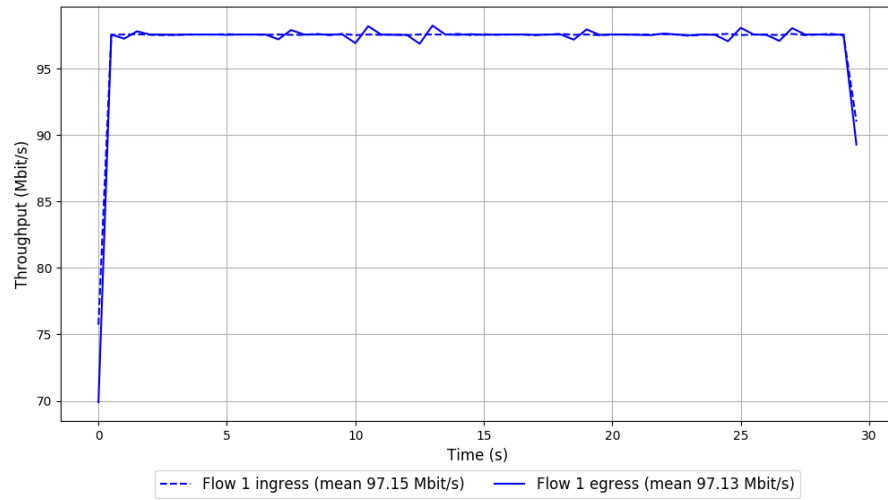Run 2: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 97.14 Mbit/s)　　Flow 1 egress (mean 97.12 Mbit/s)



Flow 1 (95th percentile 33.24 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2017-09-23 01:35:24
End at: 2017-09-23 01:35:54
Local clock offset: -0.658 ms
Remote clock offset: -4.277 ms


# Below is generated by plot.py at 2017-09-23 07:26:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 35.404 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.02 Mbit/s
95th percentile per-packet one-way delay: 35.404 ms
Loss rate: 0.13%
```
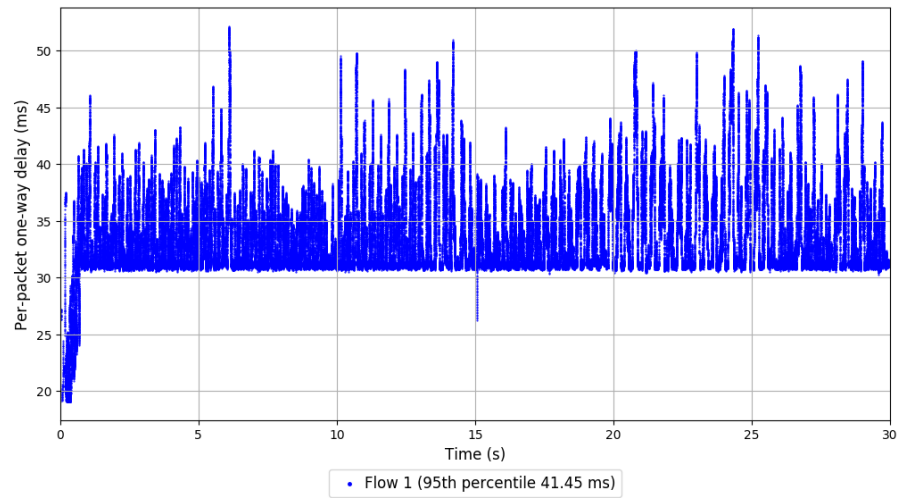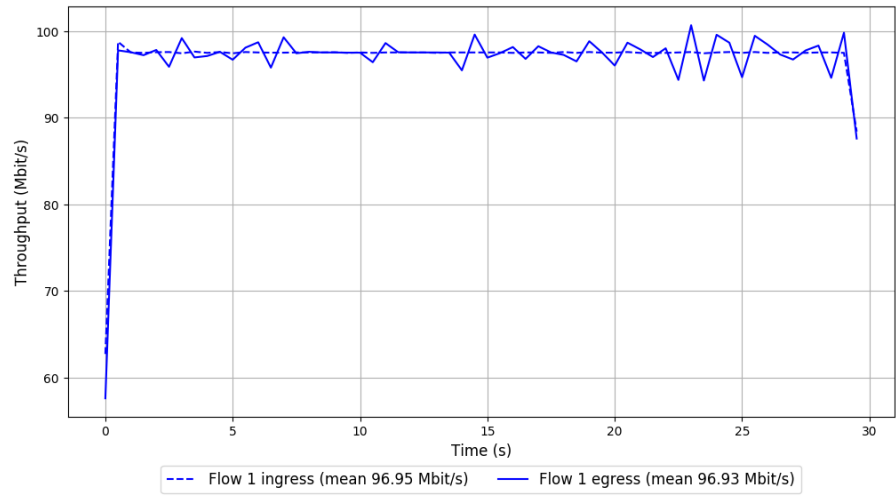
Run 3: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 97.06 Mbit/s) — — — Flow 1 egress (mean 97.02 Mbit/s)



• Flow 1 (95th percentile 35.40 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2017-09-23 01:55:10
End at: 2017-09-23 01:55:40
Local clock offset: 1.571 ms
Remote clock offset: -4.568 ms


# Below is generated by plot.py at 2017-09-23 07:26:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 33.920 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 33.920 ms
Loss rate: 0.13%
```
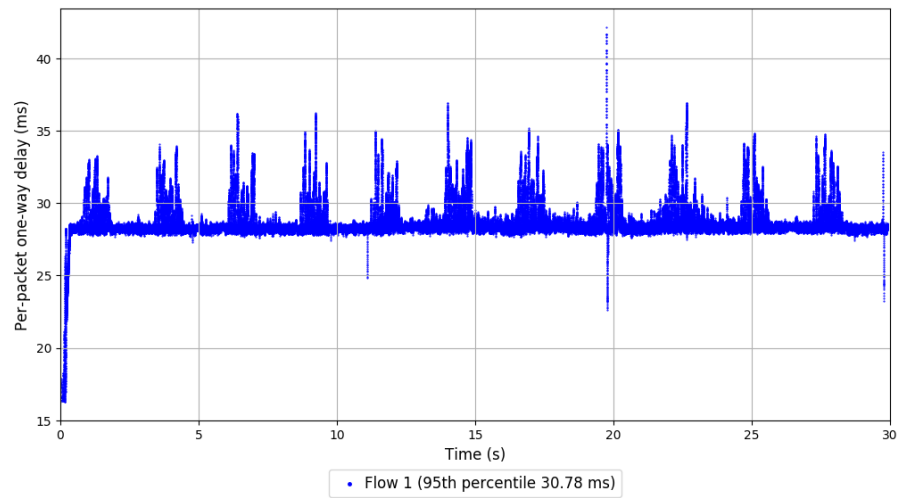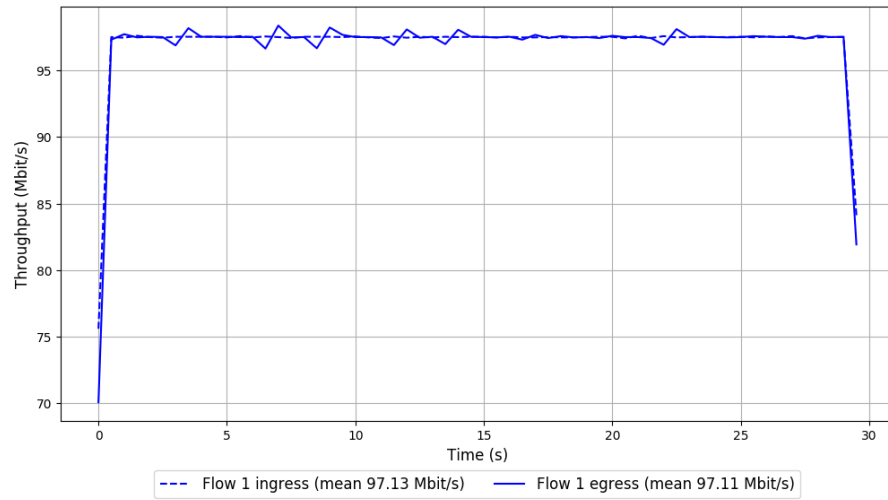
Run 4: Report of TCP Cubic — Data Link



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



• Flow 1 (95th percentile 33.92 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2017-09-23 02:14:11
End at: 2017-09-23 02:14:41
Local clock offset: 0.583 ms
Remote clock offset: -3.675 ms


# Below is generated by plot.py at 2017-09-23 07:26:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 31.629 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.13 Mbit/s
95th percentile per-packet one-way delay: 31.629 ms
Loss rate: 0.13%
```

Run 5: Report of TCP Cubic — Data Link



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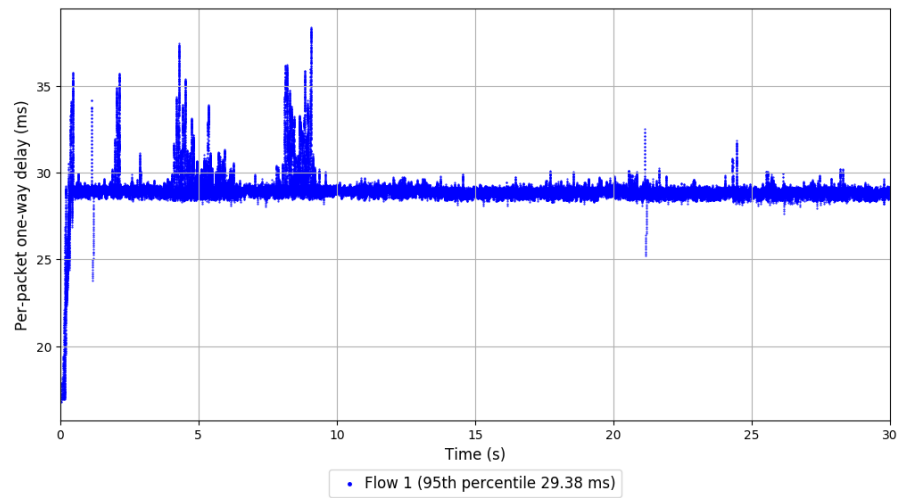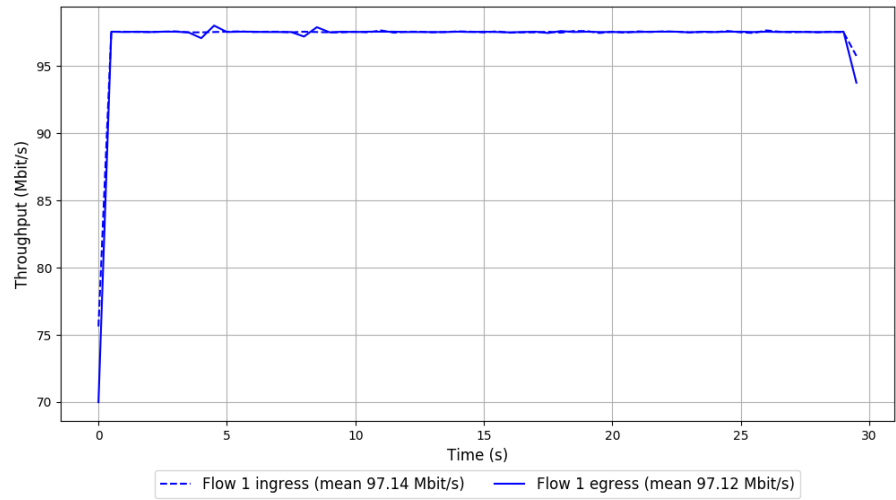


• Flow 1 (95th percentile 31.63 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2017-09-23 02:55:39
End at: 2017-09-23 02:56:09
Local clock offset: 1.266 ms
Remote clock offset: -4.586 ms


# Below is generated by plot.py at 2017-09-23 07:26:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 41.453 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 96.93 Mbit/s
95th percentile per-packet one-way delay: 41.453 ms
Loss rate: 0.13%
```

## Run 6: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 96.95 Mbit/s) — — — — Flow 1 egress (mean 96.93 Mbit/s)



• Flow 1 (95th percentile 41.45 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2017-09-23 03:24:11
End at: 2017-09-23 03:24:41
Local clock offset: -1.44 ms
Remote clock offset: -4.483 ms


# Below is generated by plot.py at 2017-09-23 07:27:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 30.783 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.11 Mbit/s
95th percentile per-packet one-way delay: 30.783 ms
Loss rate: 0.13%
```
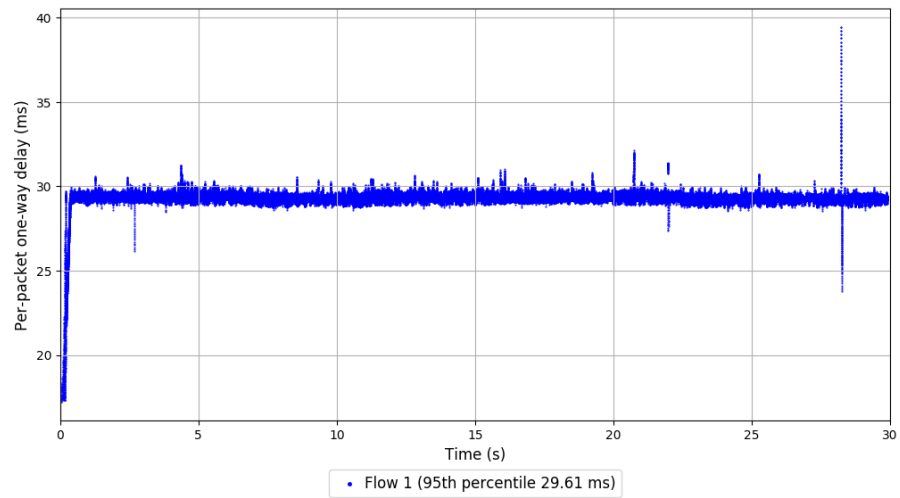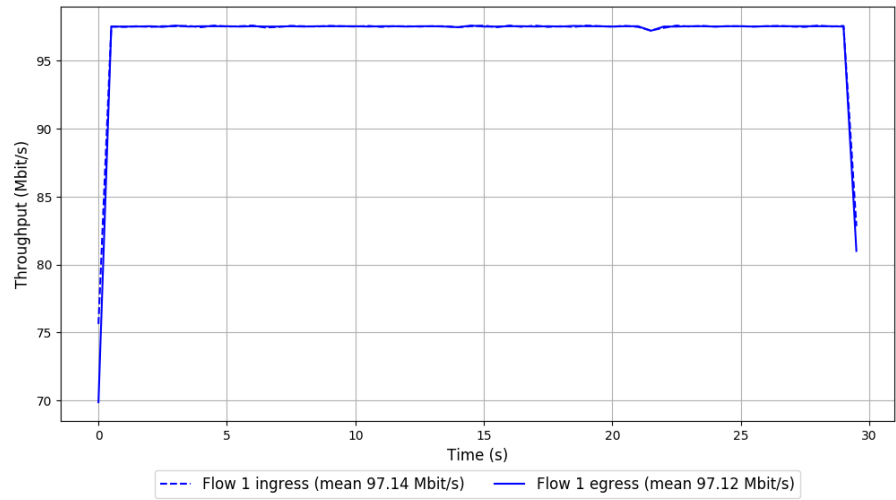
## Run 7: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 97.13 Mbit/s) --- Flow 1 egress (mean 97.11 Mbit/s)



Flow 1 (95th percentile 30.78 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2017-09-23 03:44:36
End at: 2017-09-23 03:45:06
Local clock offset: -1.926 ms
Remote clock offset: -4.218 ms
```

## Run 8: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 0.00 Mbit/s)    Flow 1 egress (mean 21.79 Mbit/s)



Flow 1 (95th percentile 13958.67 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2017-09-23 04:04:26
End at: 2017-09-23 04:04:56
Local clock offset: -1.401 ms
Remote clock offset: -4.482 ms


# Below is generated by plot.py at 2017-09-23 07:27:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 29.375 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 29.375 ms
Loss rate: 0.13%
```
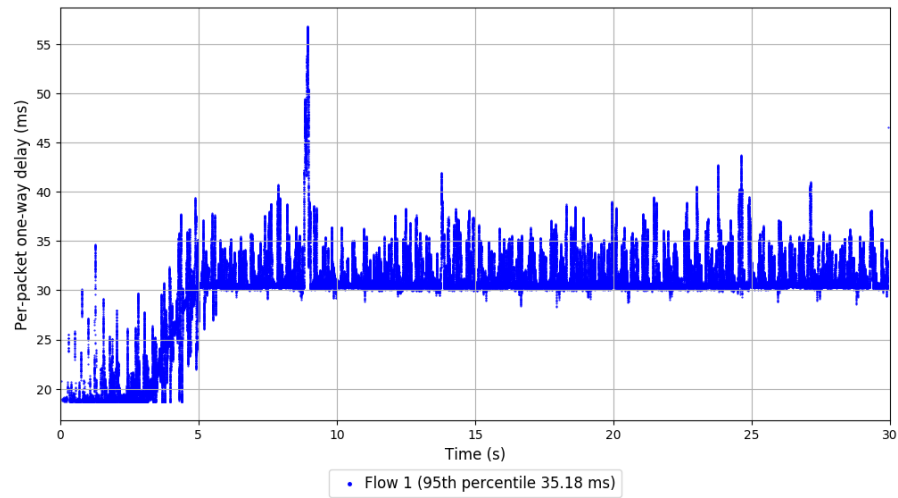
Run 9: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 97.14 Mbit/s)    Flow 1 egress (mean 97.12 Mbit/s)



Flow 1 (95th percentile 29.38 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2017-09-23 04:21:44
End at: 2017-09-23 04:22:14
Local clock offset: -1.616 ms
Remote clock offset: -5.293 ms


# Below is generated by plot.py at 2017-09-23 07:27:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 29.610 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 97.12 Mbit/s
95th percentile per-packet one-way delay: 29.610 ms
Loss rate: 0.13%
```
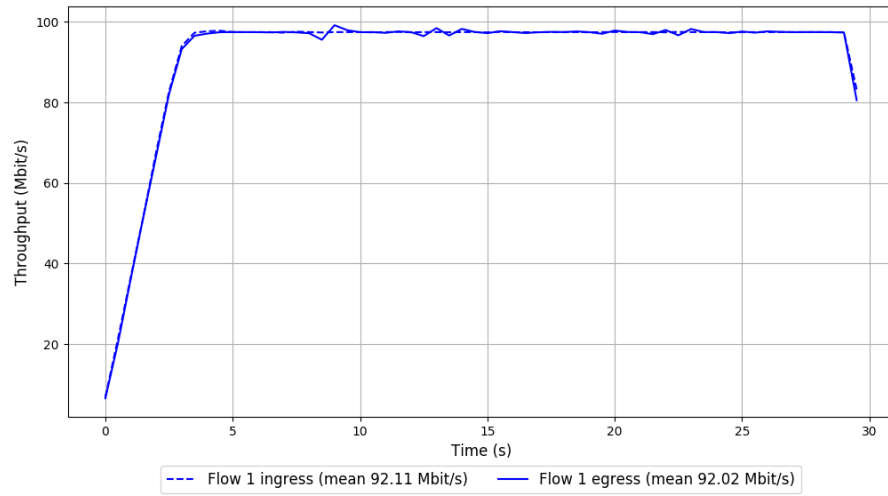
Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2017-09-23 00:40:56
End at: 2017-09-23 00:41:26
Local clock offset: 1.573 ms
Remote clock offset: -5.413 ms
```

## Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2017-09-23 00:59:08
End at: 2017-09-23 00:59:38
Local clock offset: -1.704 ms
Remote clock offset: -6.437 ms

# Below is generated by plot.py at 2017-09-23 07:27:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 31.466 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 31.466 ms
Loss rate: 0.14%
```
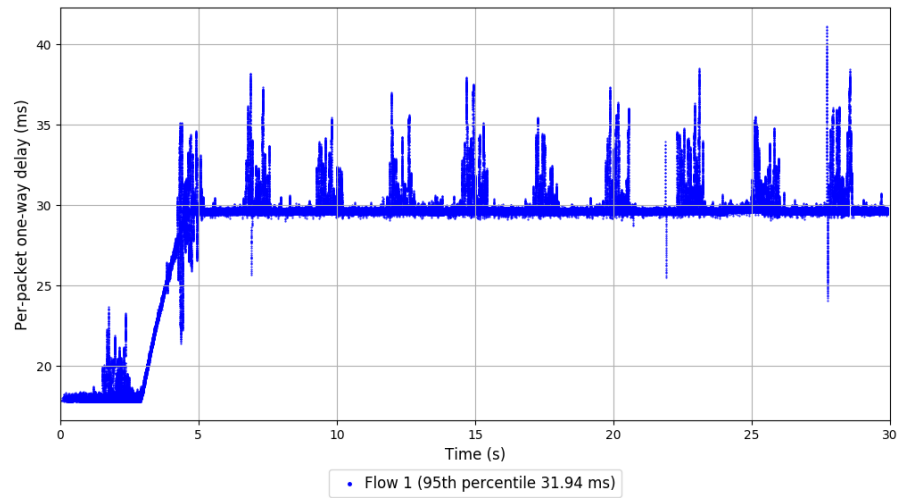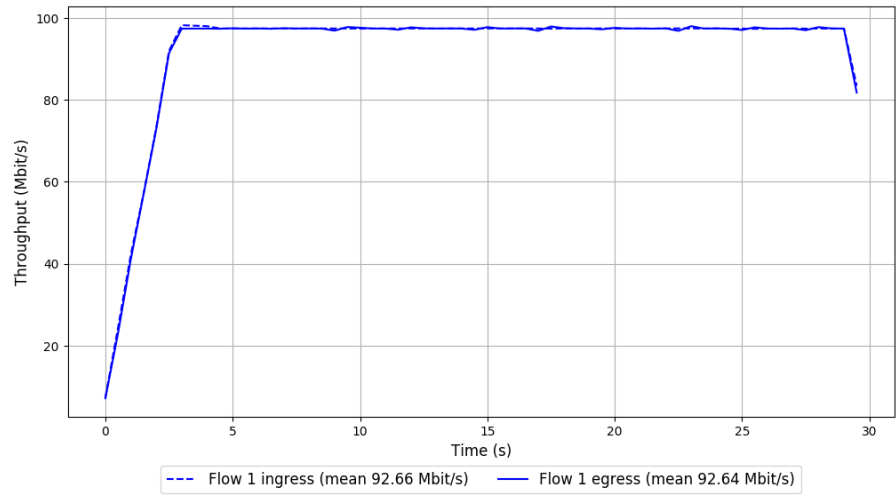
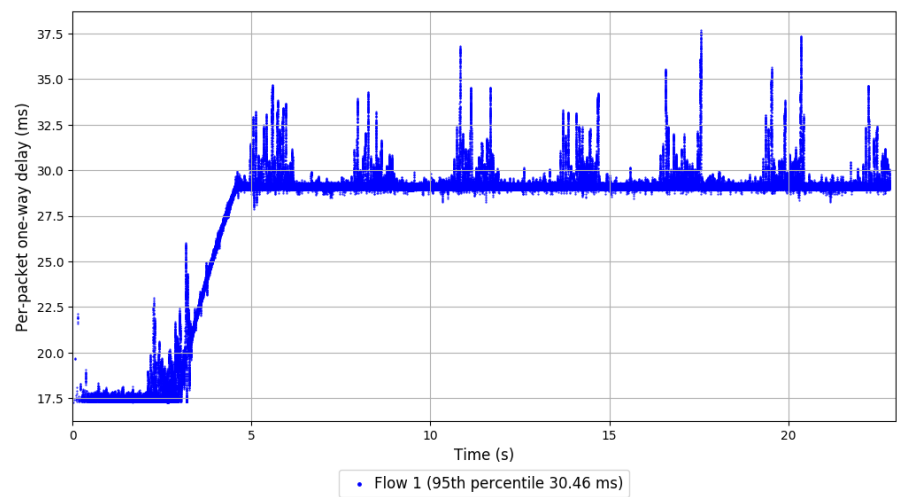Run 2: Report of LEDBAT — Data Link
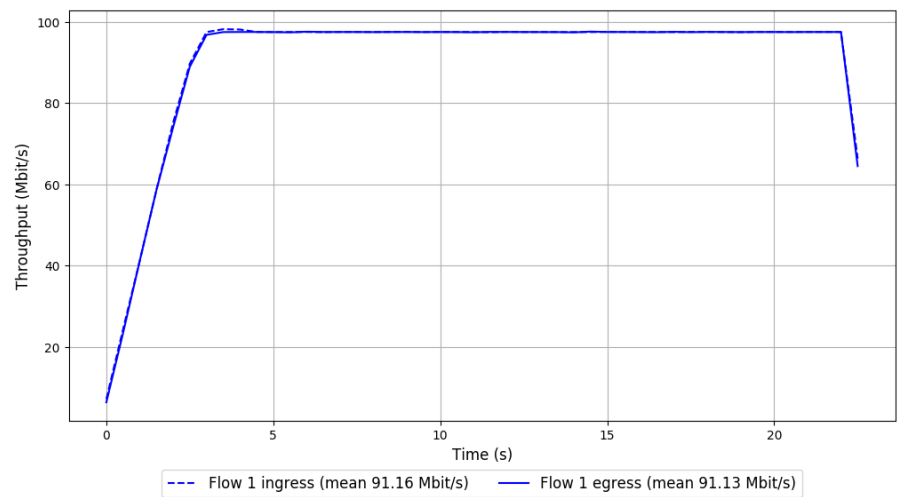
```
Run 3: Statistics of LEDBAT

Start at: 2017-09-23 01:31:27
End at: 2017-09-23 01:31:57
Local clock offset: 0.55 ms
Remote clock offset: -3.928 ms


# Below is generated by plot.py at 2017-09-23 07:27:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.02 Mbit/s
95th percentile per-packet one-way delay: 35.177 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 92.02 Mbit/s
95th percentile per-packet one-way delay: 35.177 ms
Loss rate: 0.16%
```

Run 3: Report of LEDBAT — Data Link



Flow 1 ingress (mean 92.11 Mbit/s)    Flow 1 egress (mean 92.02 Mbit/s)



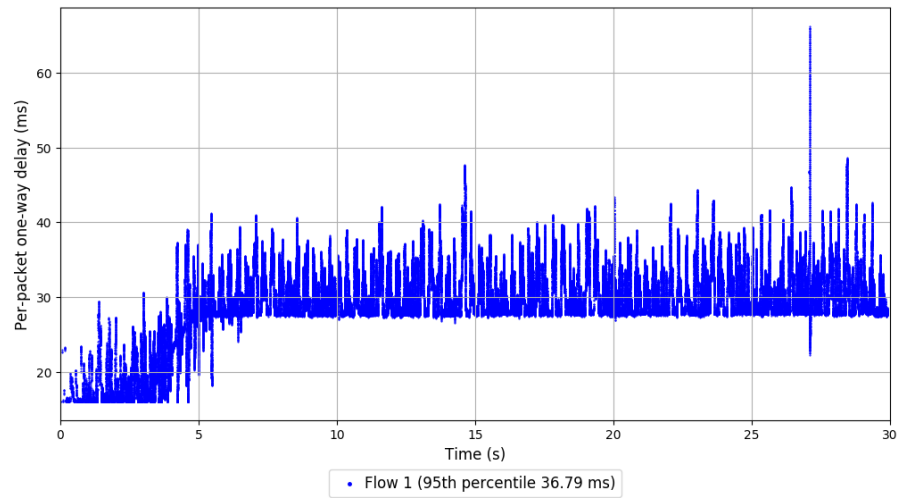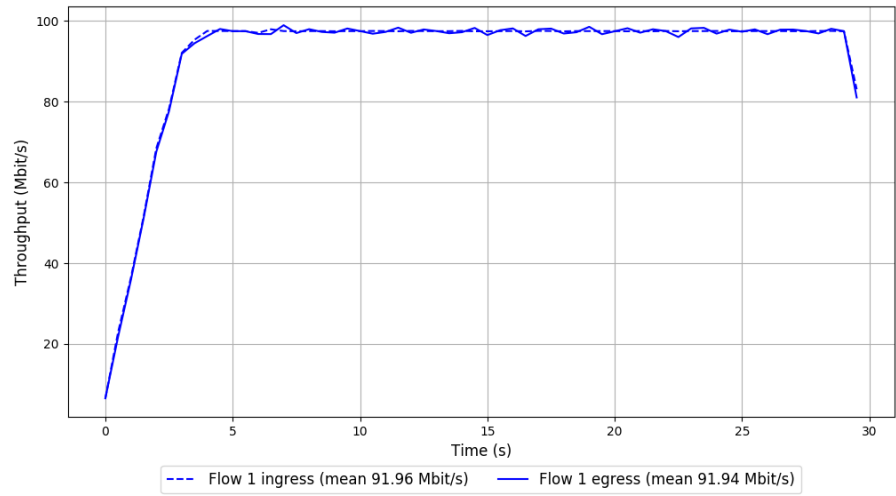Flow 1 (95th percentile 35.18 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2017-09-23 01:53:47
End at: 2017-09-23 01:54:17
Local clock offset: -0.407 ms
Remote clock offset: -4.561 ms

# Below is generated by plot.py at 2017-09-23 07:27:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 31.939 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 92.64 Mbit/s
95th percentile per-packet one-way delay: 31.939 ms
Loss rate: 0.13%
```

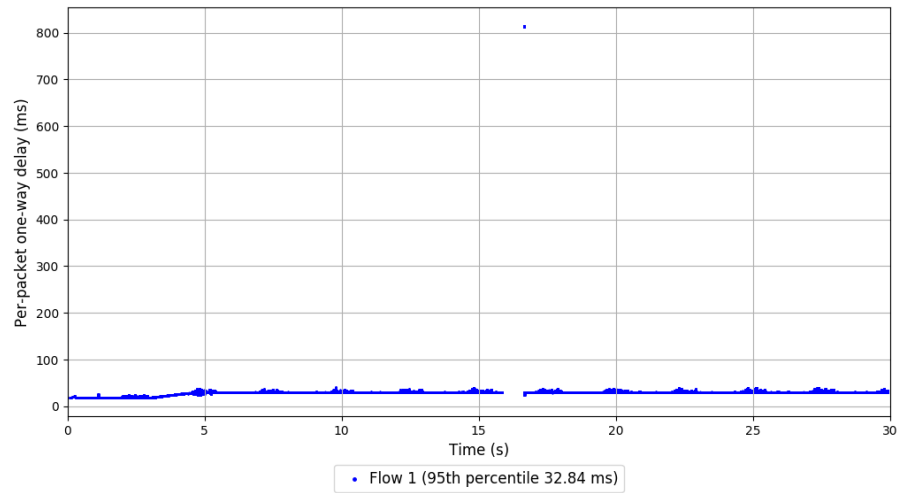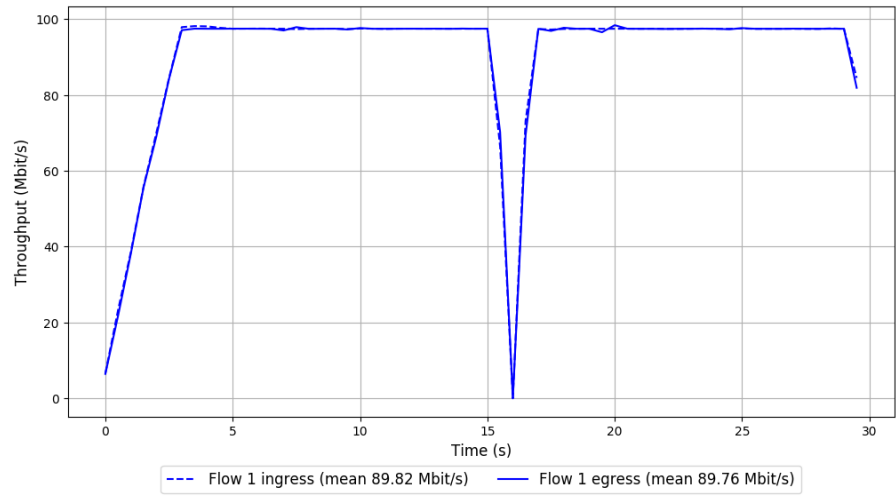Run 4: Report of LEDBAT — Data Link



Flow 1 ingress (mean 92.66 Mbit/s)    Flow 1 egress (mean 92.64 Mbit/s)



• Flow 1 (95th percentile 31.94 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2017-09-23 02:12:46
End at: 2017-09-23 02:13:16
Local clock offset: -1.111 ms
Remote clock offset: -4.697 ms
```

# Run 5: Report of LEDBAT — Data Link



Flow 1 ingress (mean 91.16 Mbit/s) — — — Flow 1 egress (mean 91.13 Mbit/s)
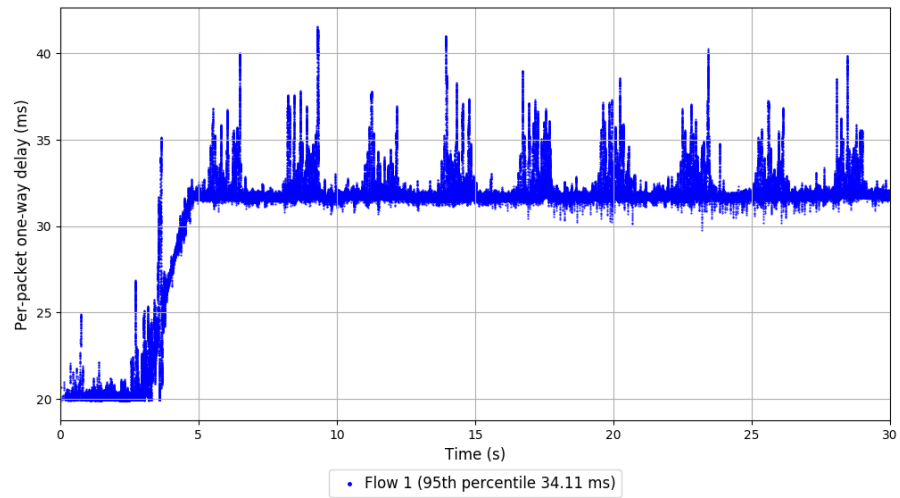


• Flow 1 (95th percentile 30.46 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2017-09-23 02:46:29
End at: 2017-09-23 02:46:59
Local clock offset: -1.162 ms
Remote clock offset: -3.832 ms


# Below is generated by plot.py at 2017-09-23 07:27:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 36.788 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 36.788 ms
Loss rate: 0.14%
```

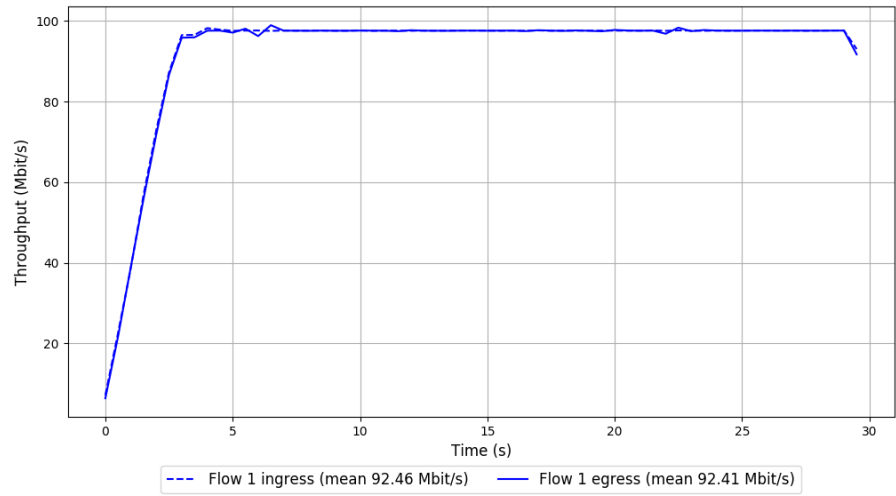## Run 6: Report of LEDBAT — Data Link



Flow 1 ingress (mean 91.96 Mbit/s) — — — Flow 1 egress (mean 91.94 Mbit/s)



• Flow 1 (95th percentile 36.79 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2017-09-23 03:22:42
End at: 2017-09-23 03:23:12
Local clock offset: 1.145 ms
Remote clock offset: -3.429 ms


# Below is generated by plot.py at 2017-09-23 07:28:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 32.842 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 89.76 Mbit/s
95th percentile per-packet one-way delay: 32.842 ms
Loss rate: 0.16%
```

Run 7: Report of LEDBAT — Data Link

```
Run 8: Statistics of LEDBAT

Start at: 2017-09-23 03:42:47
End at: 2017-09-23 03:43:17
Local clock offset: 1.266 ms
Remote clock offset: -4.907 ms


# Below is generated by plot.py at 2017-09-23 07:29:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 34.106 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 92.41 Mbit/s
95th percentile per-packet one-way delay: 34.106 ms
Loss rate: 0.14%
```
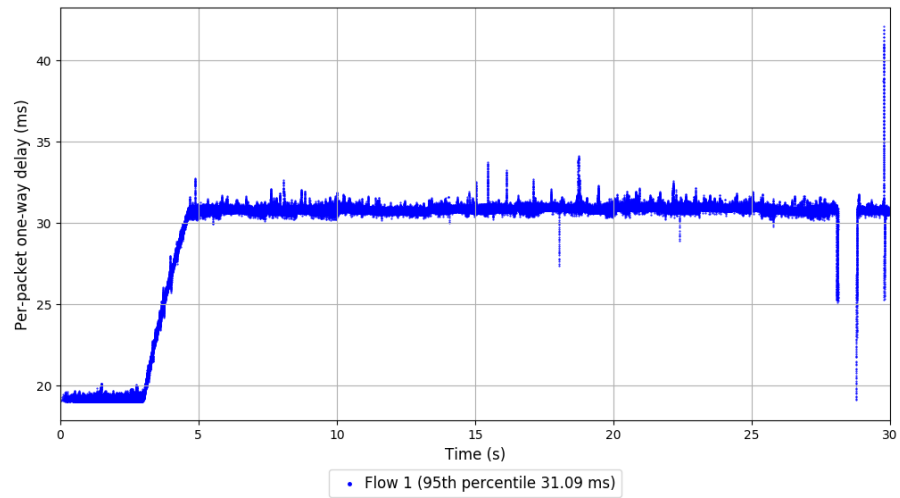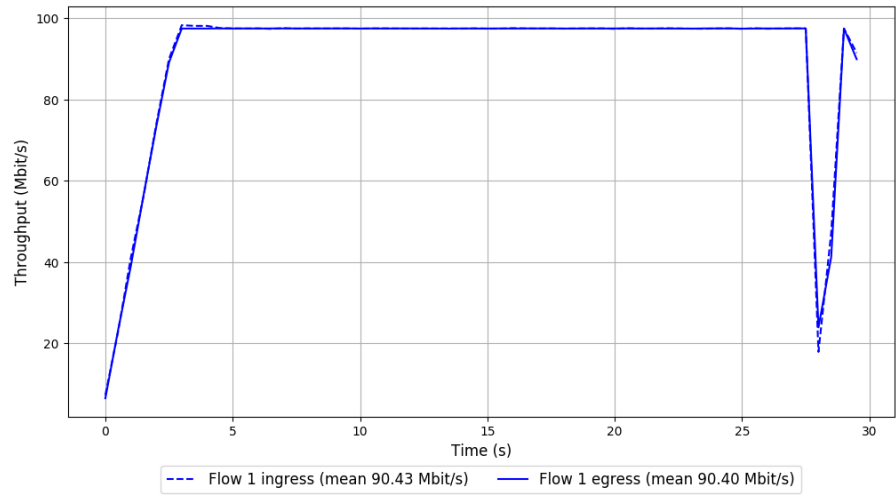
Run 8: Report of LEDBAT — Data Link



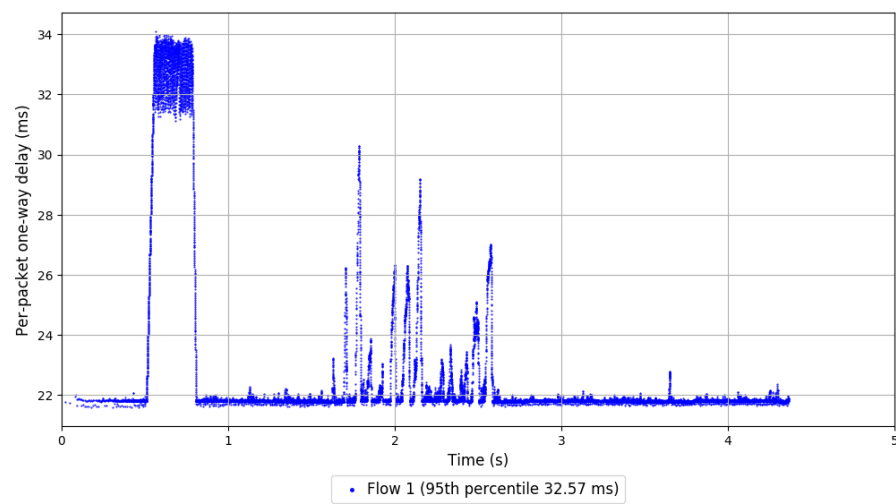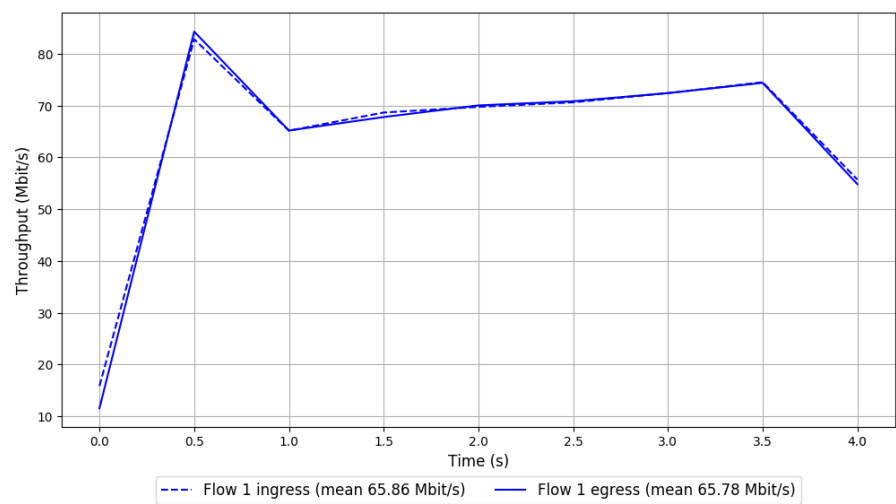Flow 1 ingress (mean 92.46 Mbit/s)    Flow 1 egress (mean 92.41 Mbit/s)



Flow 1 (95th percentile 34.11 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2017-09-23 04:03:12
End at: 2017-09-23 04:03:42
Local clock offset: 0.206 ms
Remote clock offset: -4.49 ms
```
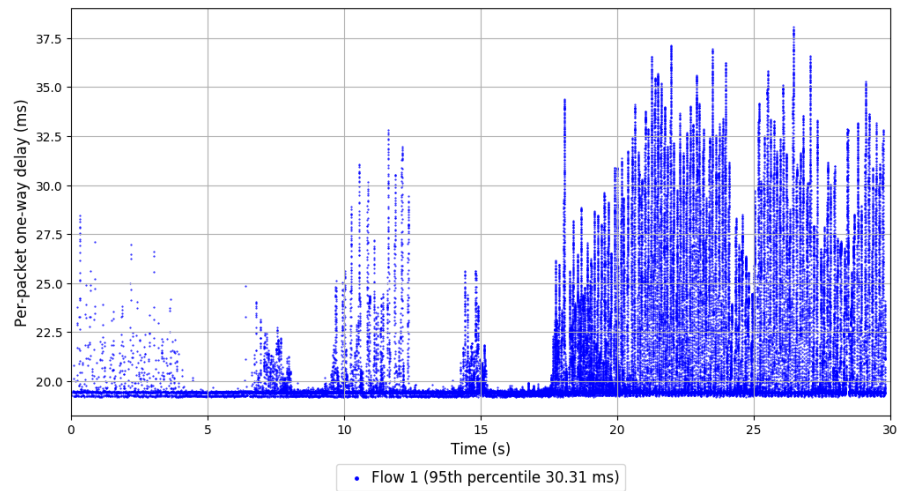
Run 9: Report of LEDBAT — Data Link



Flow 1 ingress (mean 88.15 Mbit/s)          Flow 1 egress (mean 88.10 Mbit/s)



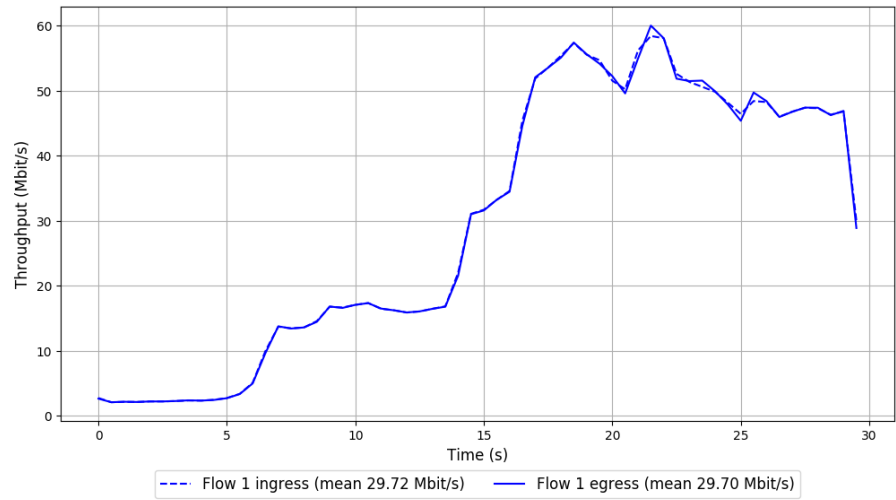· Flow 1 (95th percentile 39.36 ms)

61

```
Run 10: Statistics of LEDBAT

Start at: 2017-09-23 04:20:25
End at: 2017-09-23 04:20:55
Local clock offset: 1.664 ms
Remote clock offset: -3.715 ms


# Below is generated by plot.py at 2017-09-23 07:29:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.40 Mbit/s
95th percentile per-packet one-way delay: 31.095 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 90.40 Mbit/s
95th percentile per-packet one-way delay: 31.095 ms
Loss rate: 0.14%
```

Run 10: Report of LEDBAT — Data Link



Flow 1 ingress (mean 90.43 Mbit/s)    Flow 1 egress (mean 90.40 Mbit/s)



Flow 1 (95th percentile 31.09 ms)

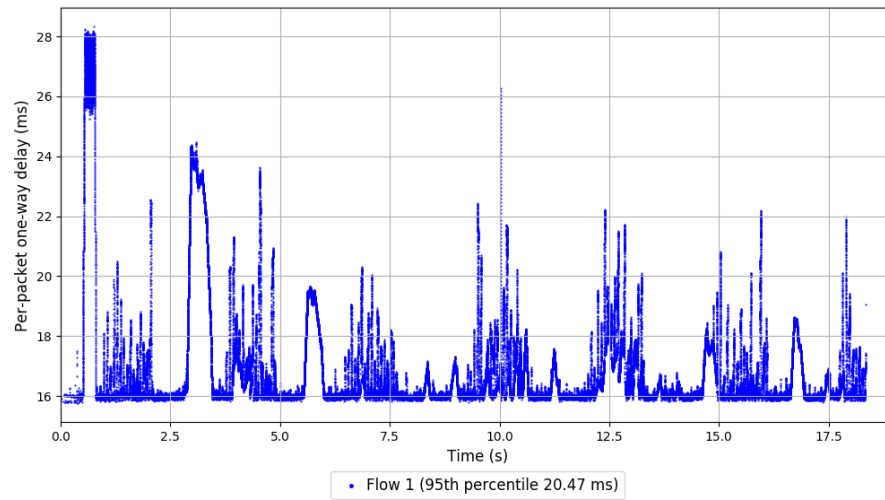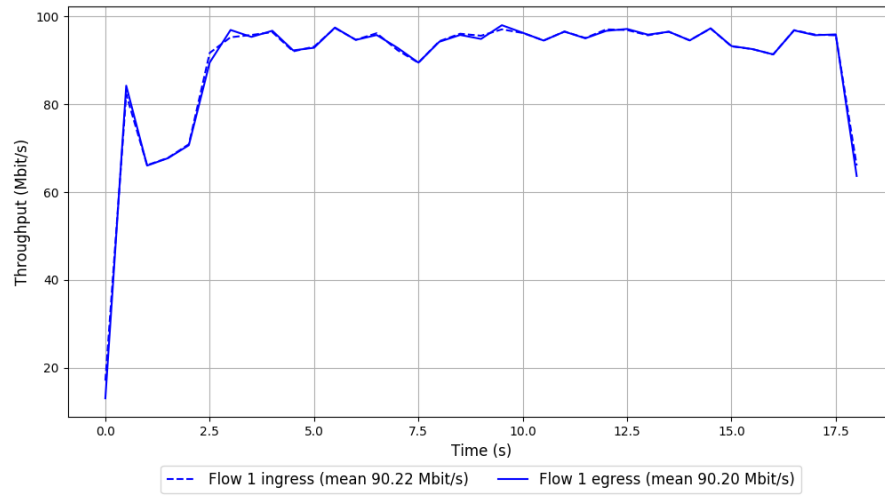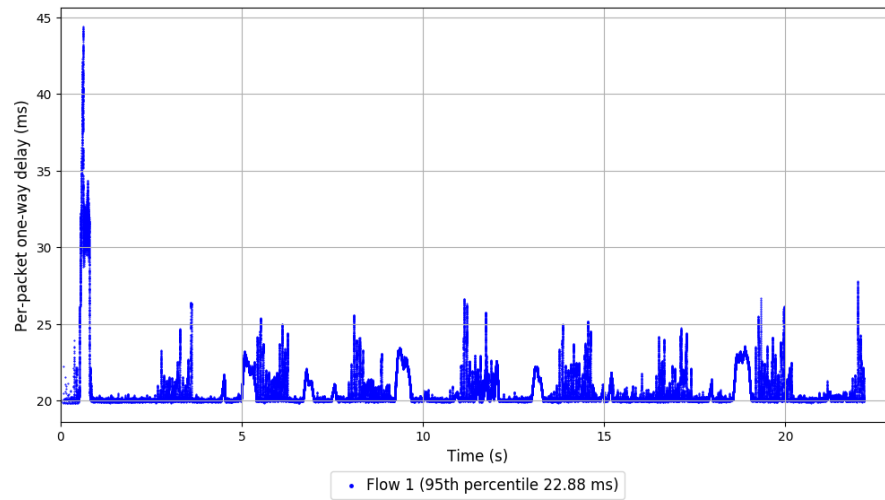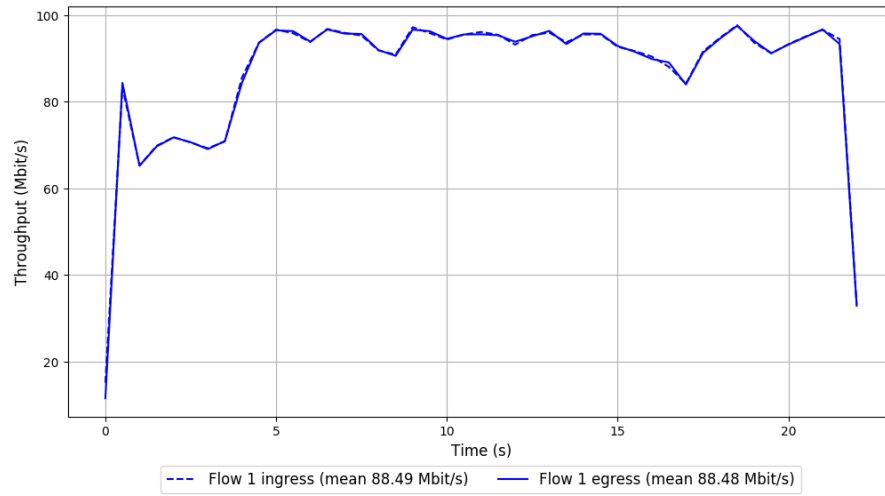```
Run 1: Statistics of PCC

Start at: 2017-09-23 00:50:10
End at: 2017-09-23 00:50:40
Local clock offset: 0.638 ms
Remote clock offset: -6.312 ms
```

# Run 1: Report of PCC — Data Link



Flow 1 ingress (mean 65.86 Mbit/s) --- Flow 1 egress (mean 65.78 Mbit/s)



• Flow 1 (95th percentile 32.57 ms)

```
Run 2: Statistics of PCC

Start at: 2017-09-23 01:14:07
End at: 2017-09-23 01:14:37
Local clock offset: 1.073 ms
Remote clock offset: -3.971 ms


# Below is generated by plot.py at 2017-09-23 07:29:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.70 Mbit/s
95th percentile per-packet one-way delay: 30.313 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 29.70 Mbit/s
95th percentile per-packet one-way delay: 30.313 ms
Loss rate: 0.16%
```

# Run 2: Report of PCC — Data Link
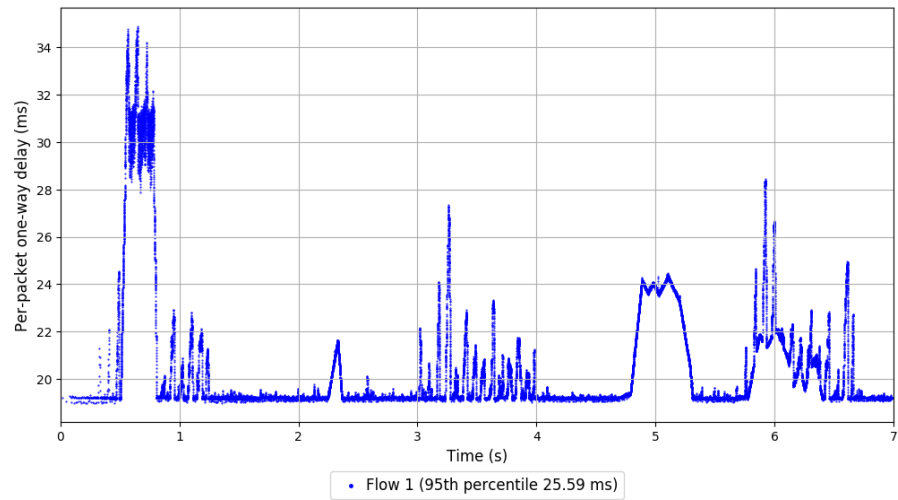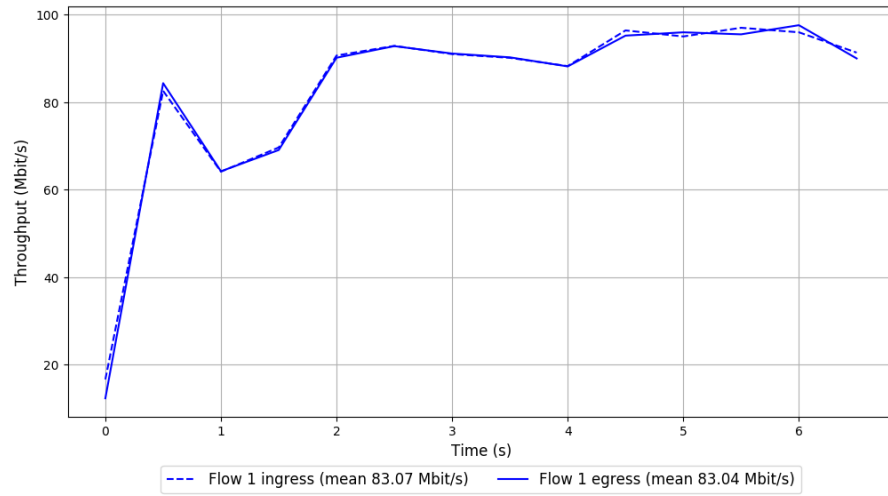
```
Run 3: Statistics of PCC

Start at: 2017-09-23 01:44:57
End at: 2017-09-23 01:45:27
Local clock offset: -1.689 ms
Remote clock offset: -3.967 ms
```
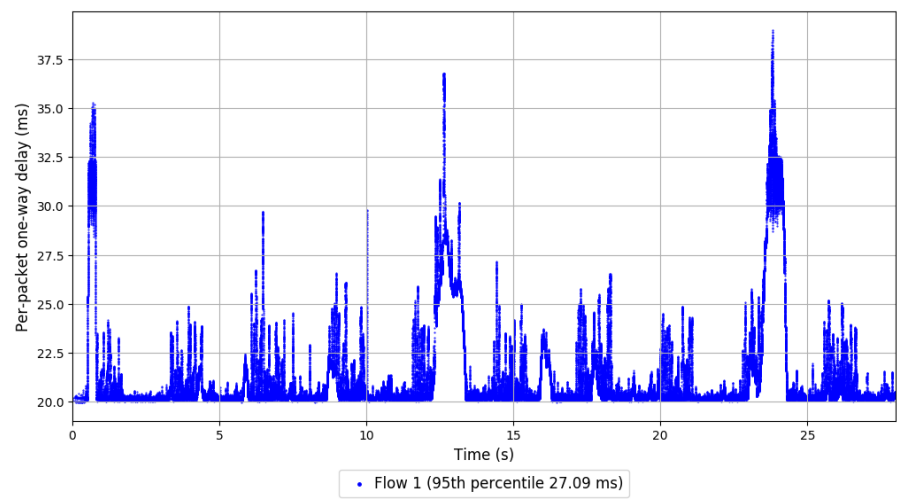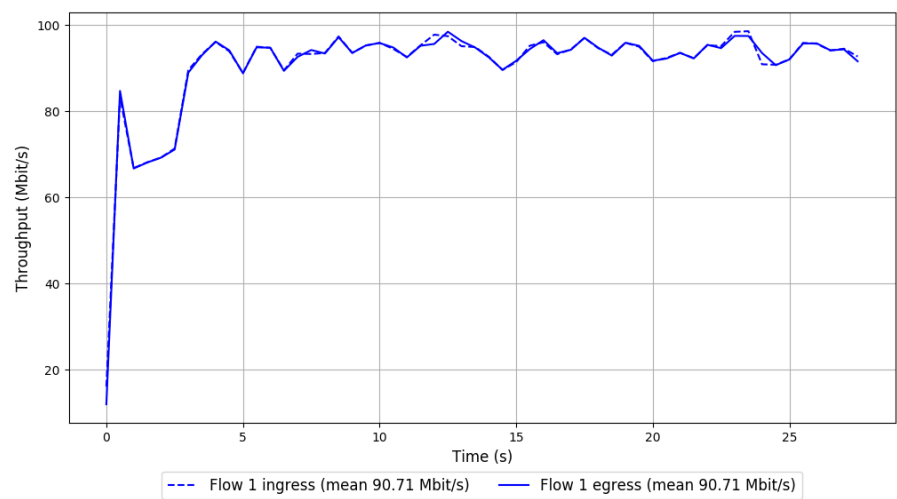
Run 3: Report of PCC — Data Link



Flow 1 ingress (mean 90.22 Mbit/s)    —— Flow 1 egress (mean 90.20 Mbit/s)



• Flow 1 (95th percentile 20.47 ms)

```
Run 4: Statistics of PCC

Start at: 2017-09-23 02:03:16
End at: 2017-09-23 02:03:46
Local clock offset: 0.874 ms
Remote clock offset: -5.325 ms
```

Run 4: Report of PCC — Data Link



Flow 1 ingress (mean 88.49 Mbit/s)    Flow 1 egress (mean 88.48 Mbit/s)
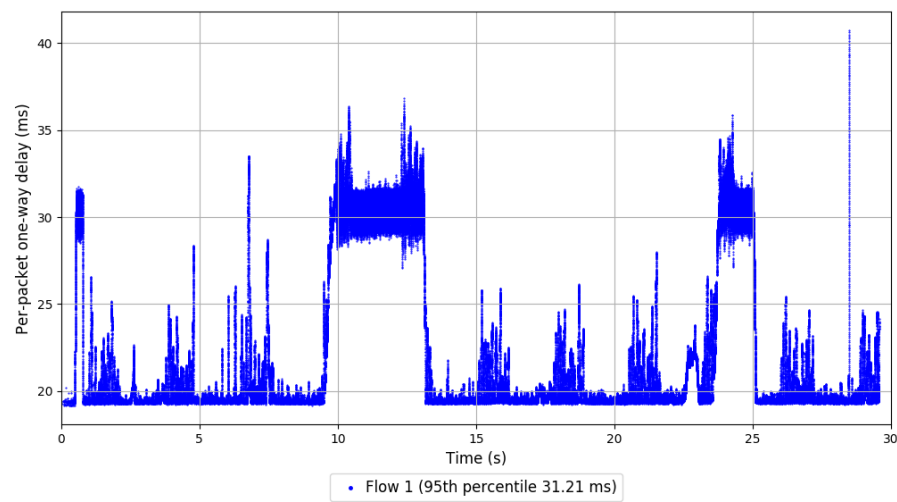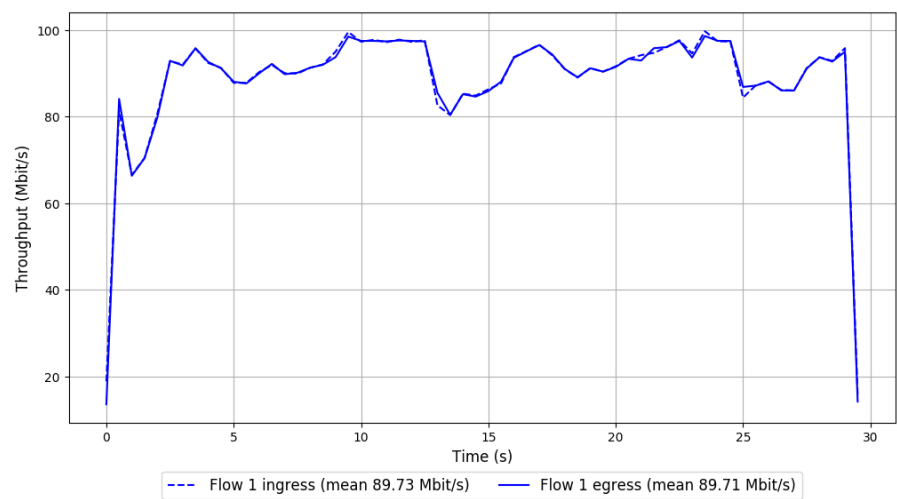


Flow 1 (95th percentile 22.88 ms)

```
Run 5: Statistics of PCC

Start at: 2017-09-23 02:22:18
End at: 2017-09-23 02:22:48
Local clock offset: 0.681 ms
Remote clock offset: -4.859 ms
```

Run 5: Report of PCC — Data Link



Flow 1 ingress (mean 83.07 Mbit/s) — — — Flow 1 egress (mean 83.04 Mbit/s)



Flow 1 (95th percentile 25.59 ms)

```
Run 6: Statistics of PCC

Start at: 2017-09-23 03:13:19
End at: 2017-09-23 03:13:49
Local clock offset: 2.375 ms
Remote clock offset: -4.795 ms


# Below is generated by plot.py at 2017-09-23 07:29:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 27.088 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 90.71 Mbit/s
95th percentile per-packet one-way delay: 27.088 ms
Loss rate: 0.10%
```
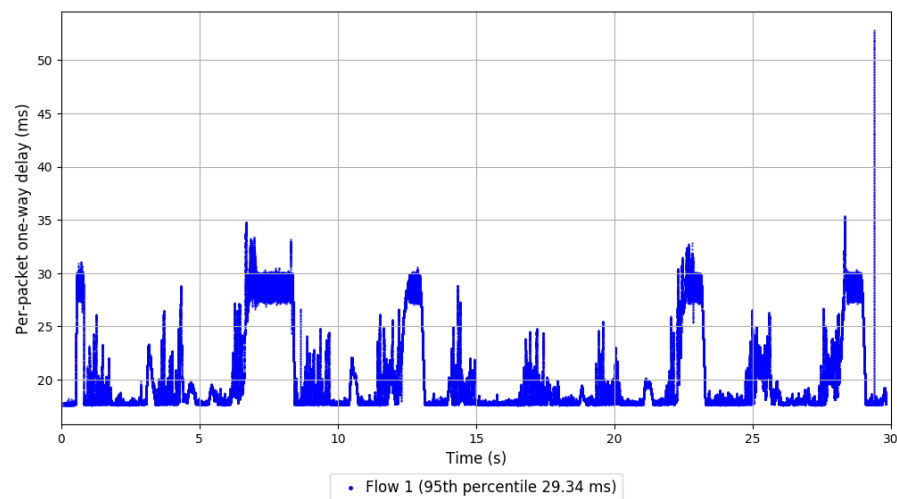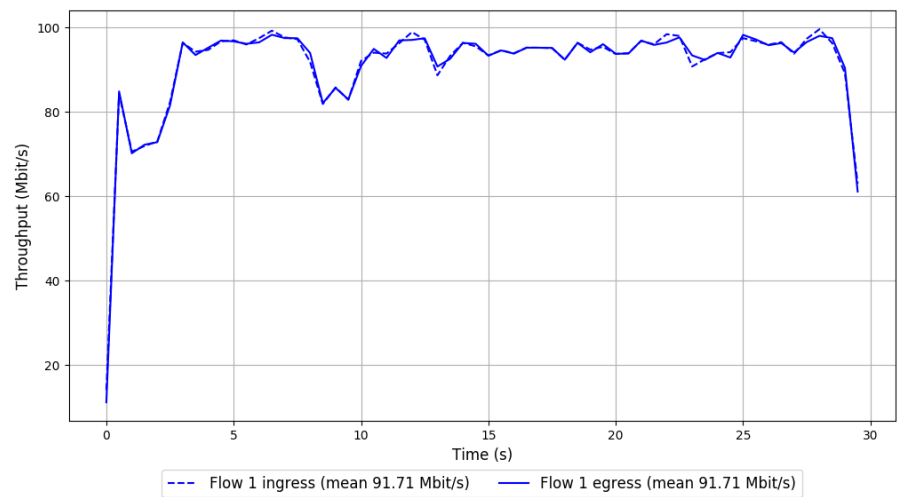
Run 6: Report of PCC — Data Link



Flow 1 ingress (mean 90.71 Mbit/s)    Flow 1 egress (mean 90.71 Mbit/s)



• Flow 1 (95th percentile 27.09 ms)

```
Run 7: Statistics of PCC

Start at: 2017-09-23 03:33:00
End at: 2017-09-23 03:33:30
Local clock offset: 0.862 ms
Remote clock offset: -4.977 ms


# Below is generated by plot.py at 2017-09-23 07:29:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.71 Mbit/s
95th percentile per-packet one-way delay: 31.212 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 89.71 Mbit/s
95th percentile per-packet one-way delay: 31.212 ms
Loss rate: 0.12%
```

Run 7: Report of PCC — Data Link



Flow 1 ingress (mean 89.73 Mbit/s) ----    Flow 1 egress (mean 89.71 Mbit/s) ——
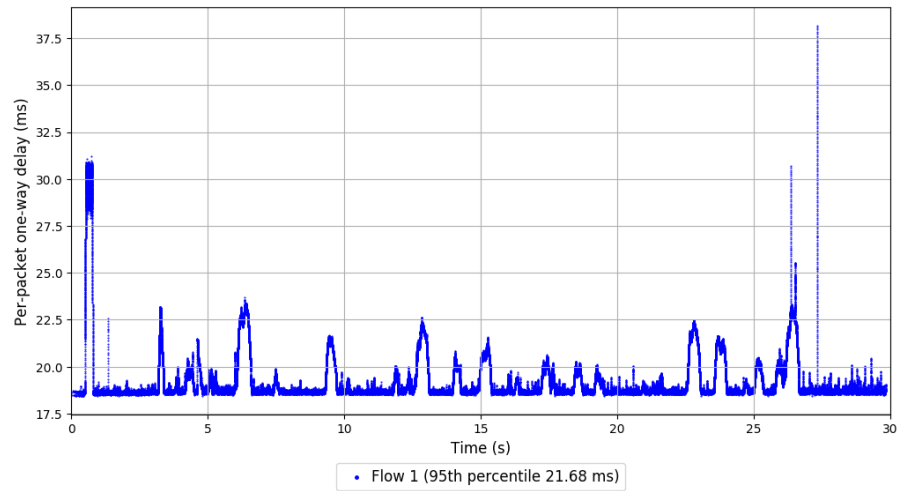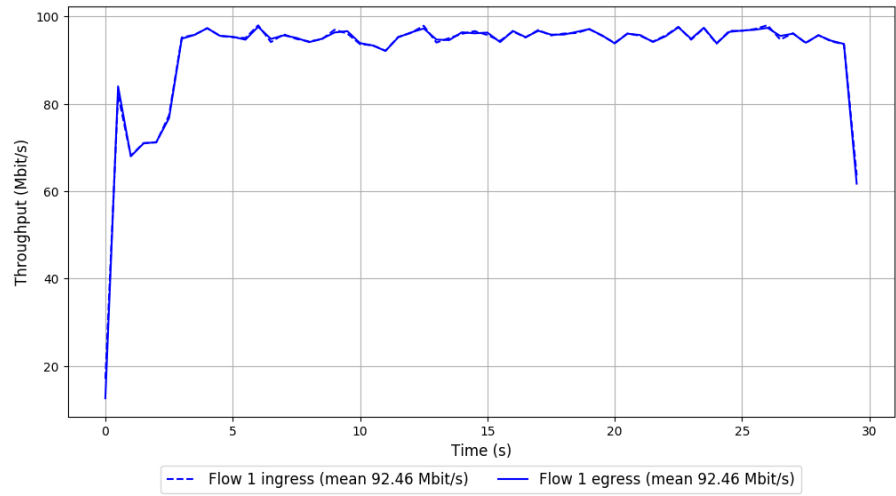


• Flow 1 (95th percentile 31.21 ms)

```
Run 8: Statistics of PCC

Start at: 2017-09-23 03:53:33
End at: 2017-09-23 03:54:03
Local clock offset: -0.735 ms
Remote clock offset: -4.585 ms


# Below is generated by plot.py at 2017-09-23 07:29:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.71 Mbit/s
95th percentile per-packet one-way delay: 29.340 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 91.71 Mbit/s
95th percentile per-packet one-way delay: 29.340 ms
Loss rate: 0.09%
```
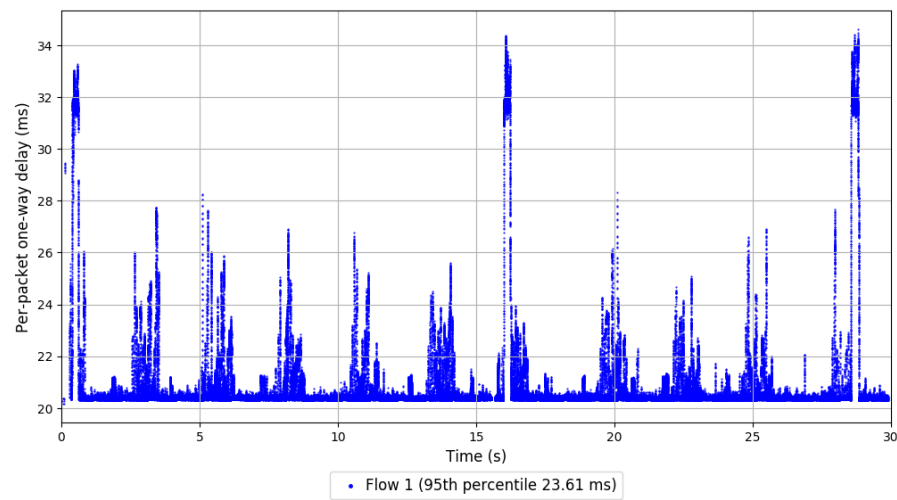
Run 8: Report of PCC — Data Link



Flow 1 ingress (mean 91.71 Mbit/s)    ── Flow 1 egress (mean 91.71 Mbit/s)



• Flow 1 (95th percentile 29.34 ms)

```
Run 9: Statistics of PCC

Start at: 2017-09-23 04:11:59
End at: 2017-09-23 04:12:29
Local clock offset: 1.441 ms
Remote clock offset: -5.002 ms
```

# Run 9: Report of PCC — Data Link



Flow 1 ingress (mean 77.26 Mbit/s)     Flow 1 egress (mean 77.14 Mbit/s)



Flow 1 (95th percentile 30.93 ms)

```
Run 10: Statistics of PCC

Start at: 2017-09-23 04:28:50
End at: 2017-09-23 04:29:20
Local clock offset: 1.714 ms
Remote clock offset: -3.276 ms


# Below is generated by plot.py at 2017-09-23 07:30:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 21.677 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 92.46 Mbit/s
95th percentile per-packet one-way delay: 21.677 ms
Loss rate: 0.10%
```
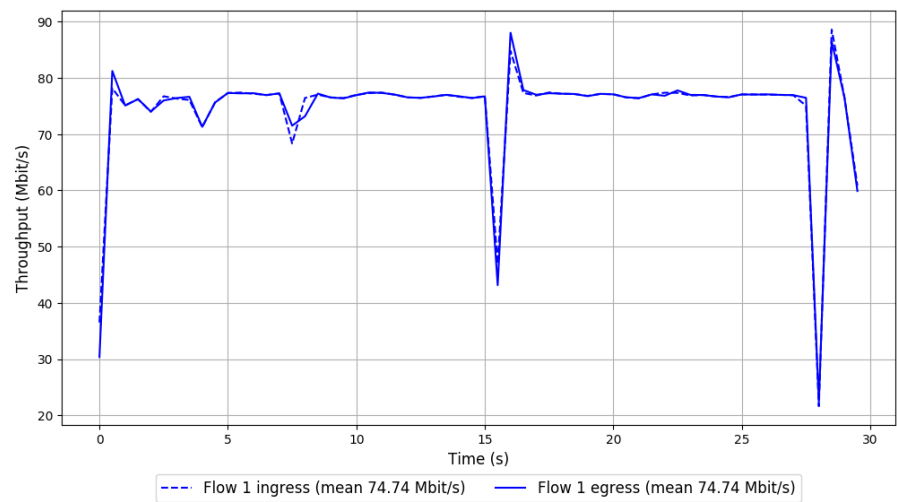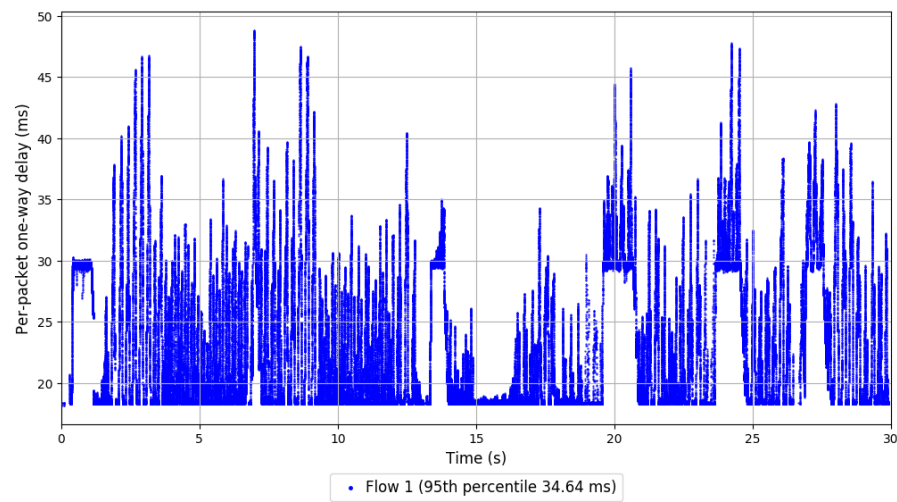
Run 10: Report of PCC — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-23 00:48:57
End at: 2017-09-23 00:49:27
Local clock offset: 0.91 ms
Remote clock offset: -4.534 ms


# Below is generated by plot.py at 2017-09-23 07:30:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.74 Mbit/s
95th percentile per-packet one-way delay: 23.615 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 74.74 Mbit/s
95th percentile per-packet one-way delay: 23.615 ms
Loss rate: 0.09%
```
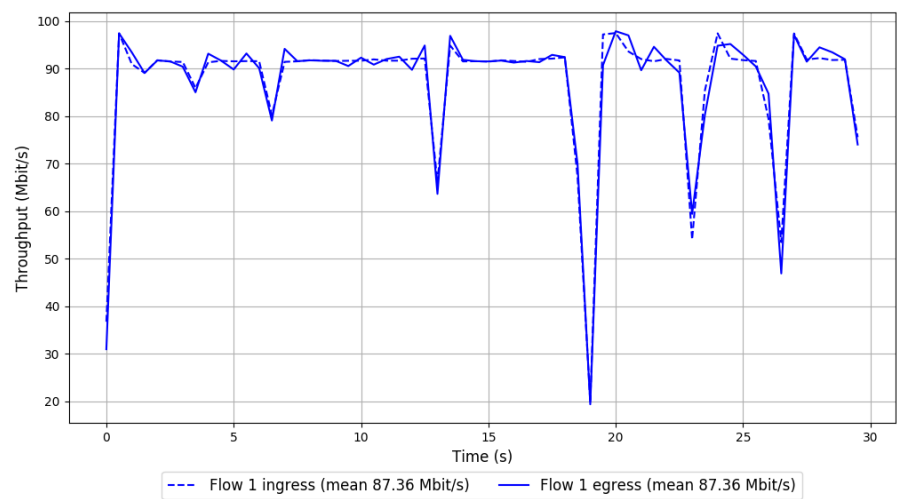
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-23 01:09:57
End at: 2017-09-23 01:10:27
Local clock offset: -1.645 ms
Remote clock offset: -5.606 ms


# Below is generated by plot.py at 2017-09-23 07:30:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 34.641 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 87.36 Mbit/s
95th percentile per-packet one-way delay: 34.641 ms
Loss rate: 0.09%
```
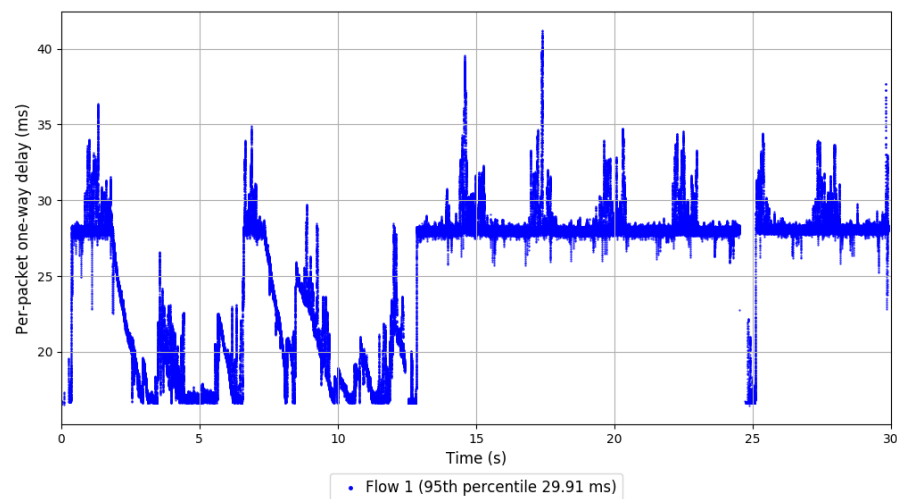
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2017-09-23 01:43:31
End at: 2017-09-23 01:44:01
Local clock offset: -0.9 ms
Remote clock offset: -3.749 ms


# Below is generated by plot.py at 2017-09-23 07:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 29.906 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 29.906 ms
Loss rate: 0.13%
```
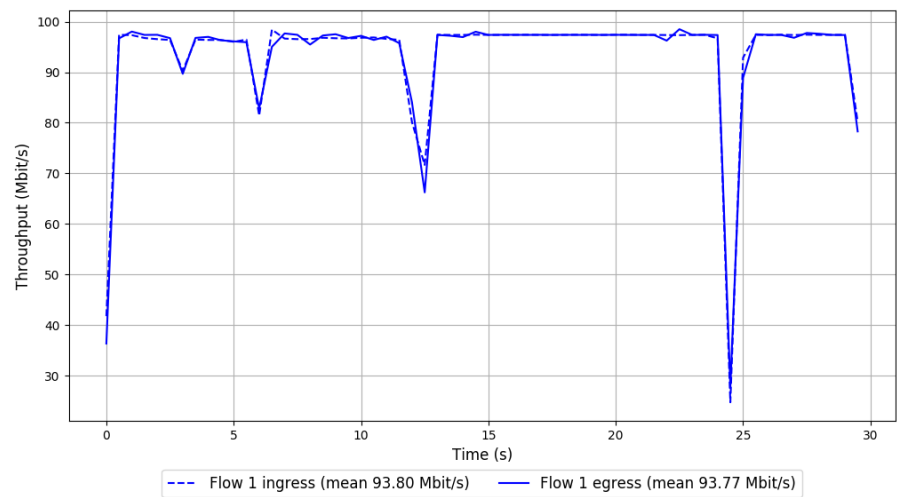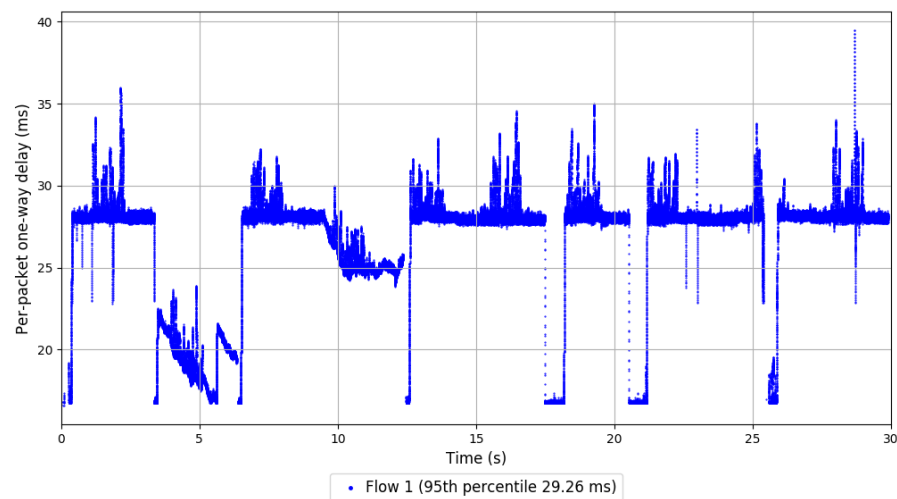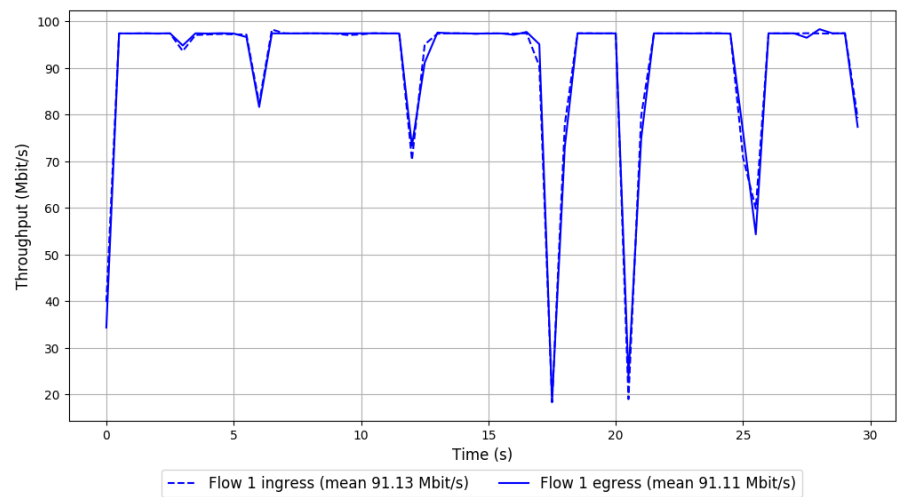
Run 3: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 93.80 Mbit/s)    —— Flow 1 egress (mean 93.77 Mbit/s)



• Flow 1 (95th percentile 29.91 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2017-09-23 02:01:53
End at: 2017-09-23 02:02:23
Local clock offset: -1.576 ms
Remote clock offset: -4.529 ms

# Below is generated by plot.py at 2017-09-23 07:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.11 Mbit/s
95th percentile per-packet one-way delay: 29.259 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 91.11 Mbit/s
95th percentile per-packet one-way delay: 29.259 ms
Loss rate: 0.14%
```
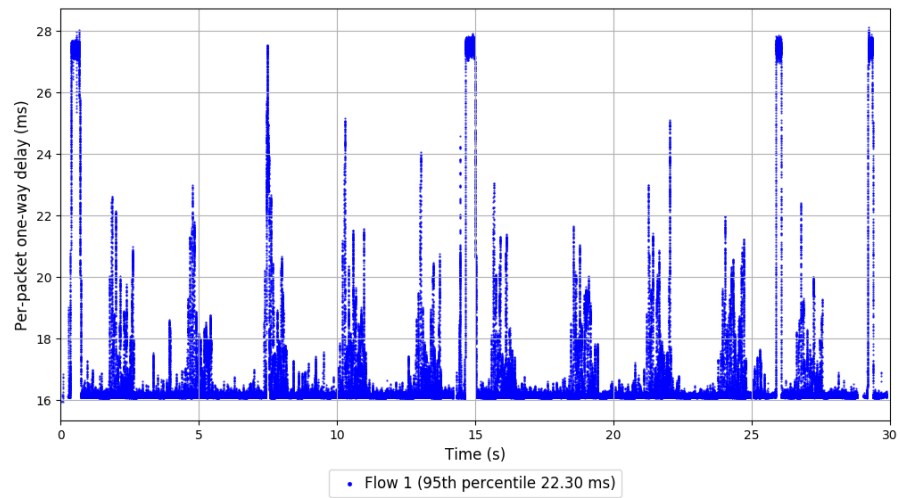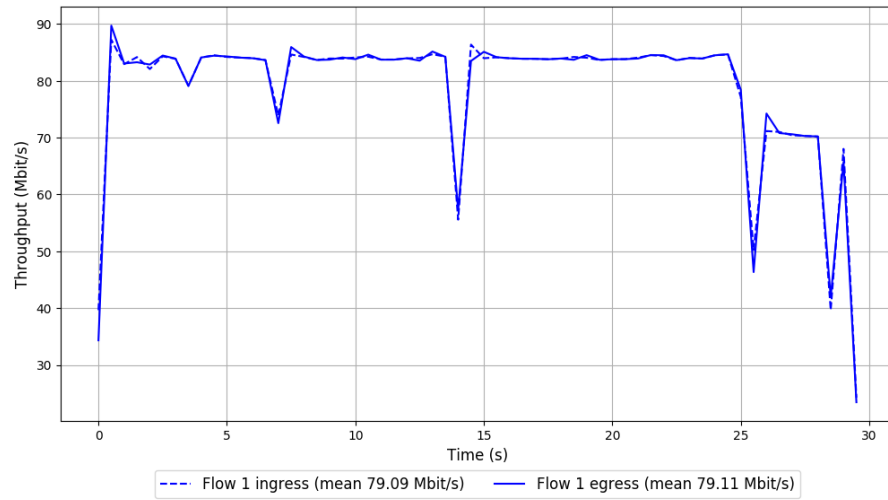
Run 4: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 91.13 Mbit/s)    Flow 1 egress (mean 91.11 Mbit/s)



• Flow 1 (95th percentile 29.26 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2017-09-23 02:20:58
End at: 2017-09-23 02:21:28
Local clock offset: -1.529 ms
Remote clock offset: -3.951 ms


# Below is generated by plot.py at 2017-09-23 07:30:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.11 Mbit/s
95th percentile per-packet one-way delay: 22.305 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 79.11 Mbit/s
95th percentile per-packet one-way delay: 22.305 ms
Loss rate: 0.07%
```
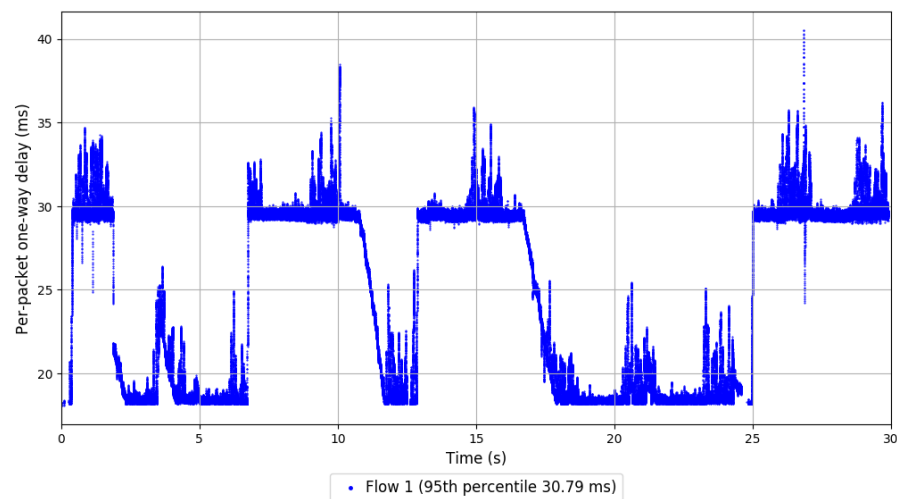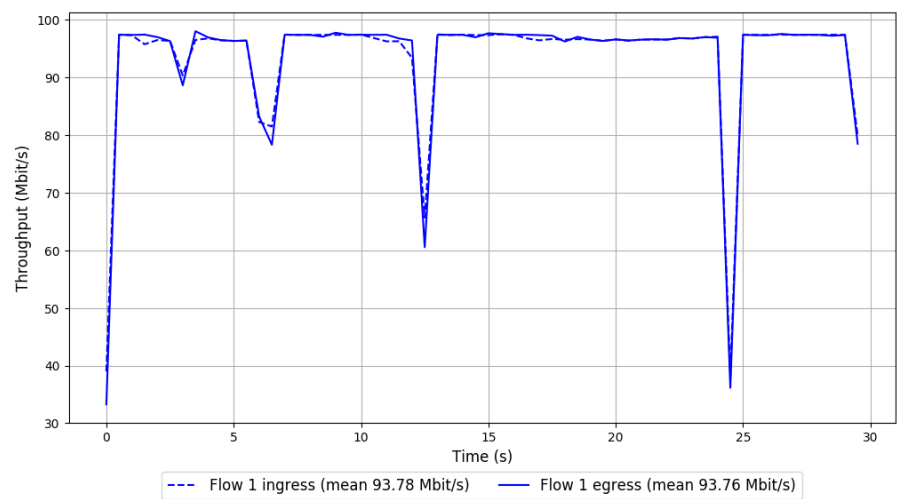
Run 5: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 79.09 Mbit/s) ----    Flow 1 egress (mean 79.11 Mbit/s) ——
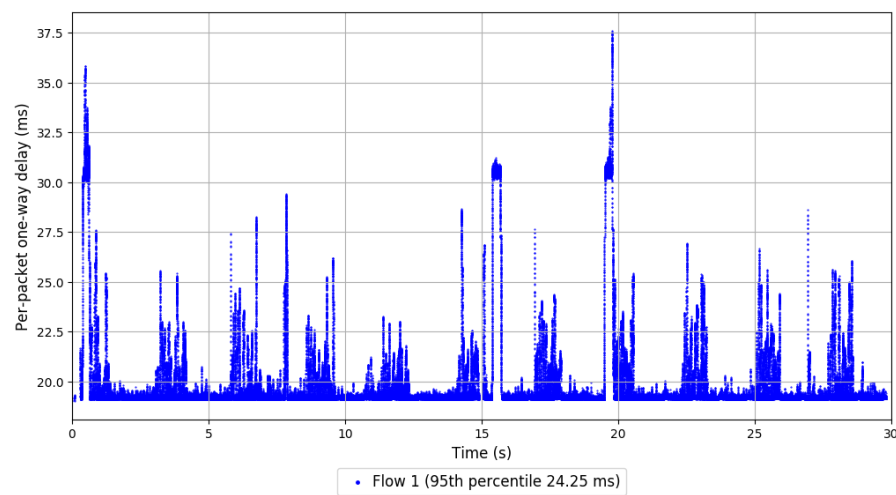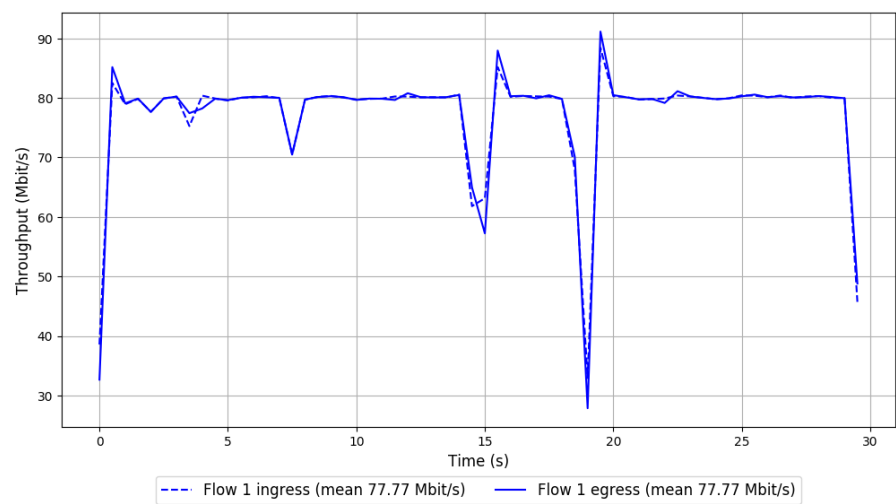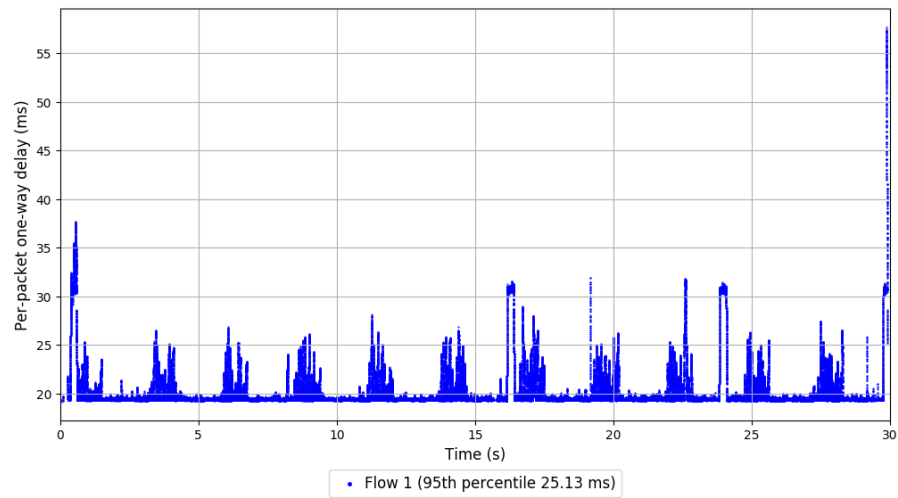


• Flow 1 (95th percentile 22.30 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2017-09-23 03:11:46
End at: 2017-09-23 03:12:16
Local clock offset: 0.7 ms
Remote clock offset: -4.504 ms


# Below is generated by plot.py at 2017-09-23 07:31:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 30.793 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 30.793 ms
Loss rate: 0.13%
```

Run 6: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 93.78 Mbit/s)    Flow 1 egress (mean 93.76 Mbit/s)
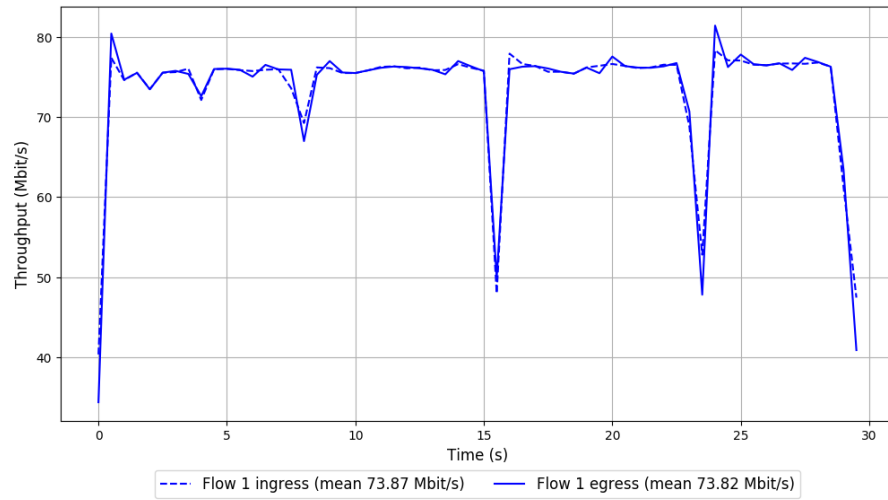


Flow 1 (95th percentile 30.79 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2017-09-23 03:31:30
End at: 2017-09-23 03:32:00
Local clock offset: 1.33 ms
Remote clock offset: -4.301 ms


# Below is generated by plot.py at 2017-09-23 07:31:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.77 Mbit/s
95th percentile per-packet one-way delay: 24.245 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.77 Mbit/s
95th percentile per-packet one-way delay: 24.245 ms
Loss rate: 0.00%
```
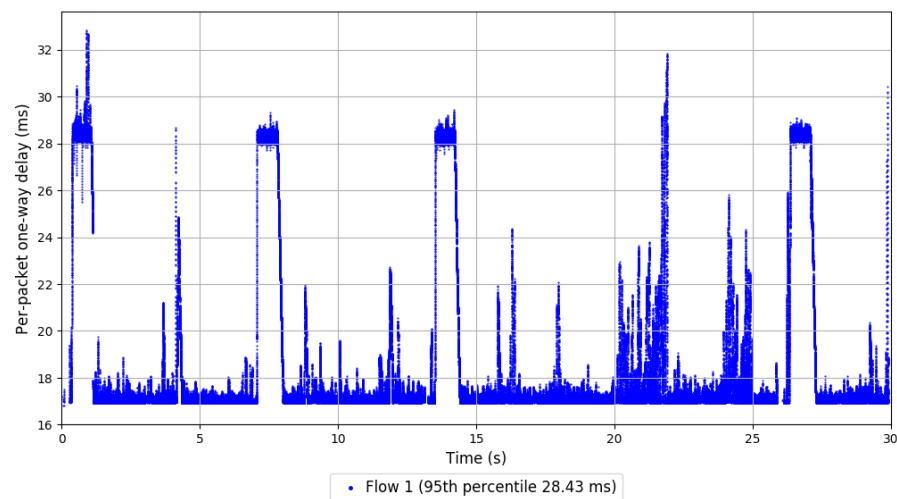
Run 7: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 77.77 Mbit/s) — — — Flow 1 egress (mean 77.77 Mbit/s)



• Flow 1 (95th percentile 24.25 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2017-09-23 03:52:00
End at: 2017-09-23 03:52:30
Local clock offset: 0.552 ms
Remote clock offset: -4.818 ms


# Below is generated by plot.py at 2017-09-23 07:31:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.82 Mbit/s
95th percentile per-packet one-way delay: 25.130 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 73.82 Mbit/s
95th percentile per-packet one-way delay: 25.130 ms
Loss rate: 0.17%
```
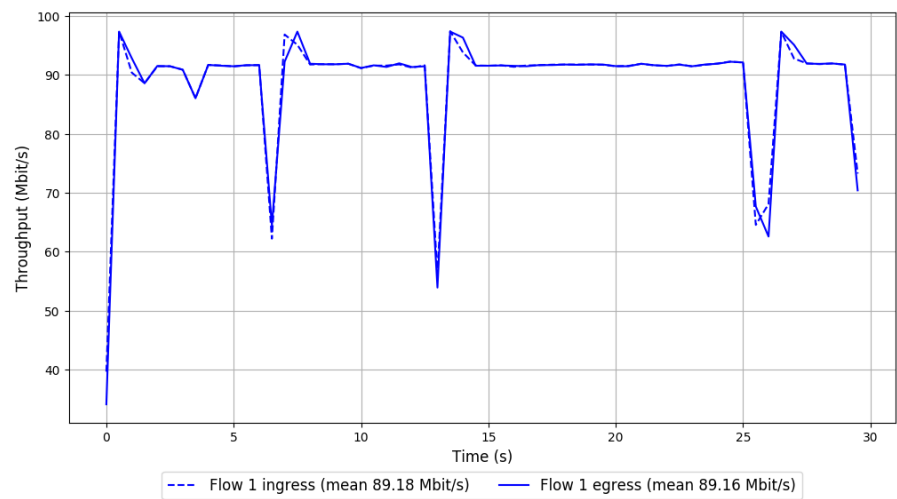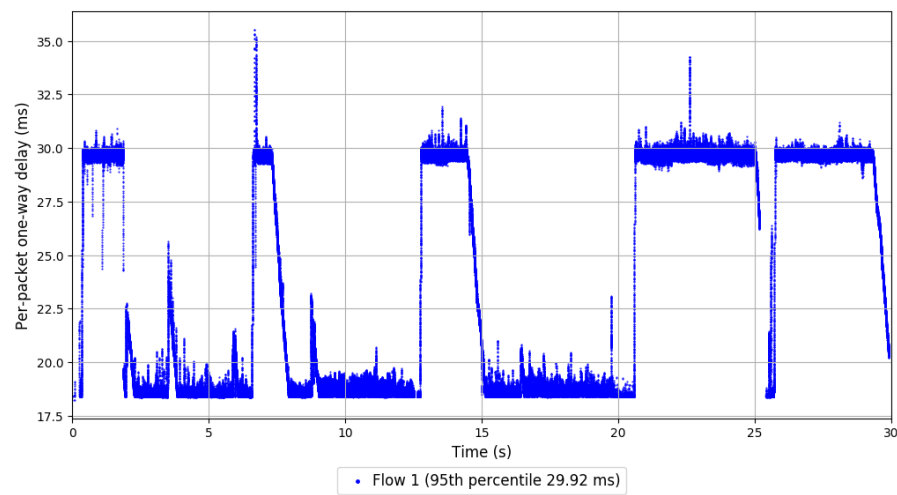
Run 8: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 73.87 Mbit/s) —— Flow 1 egress (mean 73.82 Mbit/s)



• Flow 1 (95th percentile 25.13 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2017-09-23 04:10:42
End at: 2017-09-23 04:11:12
Local clock offset: -1.469 ms
Remote clock offset: -4.636 ms


# Below is generated by plot.py at 2017-09-23 07:31:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.16 Mbit/s
95th percentile per-packet one-way delay: 28.429 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 89.16 Mbit/s
95th percentile per-packet one-way delay: 28.429 ms
Loss rate: 0.11%
```
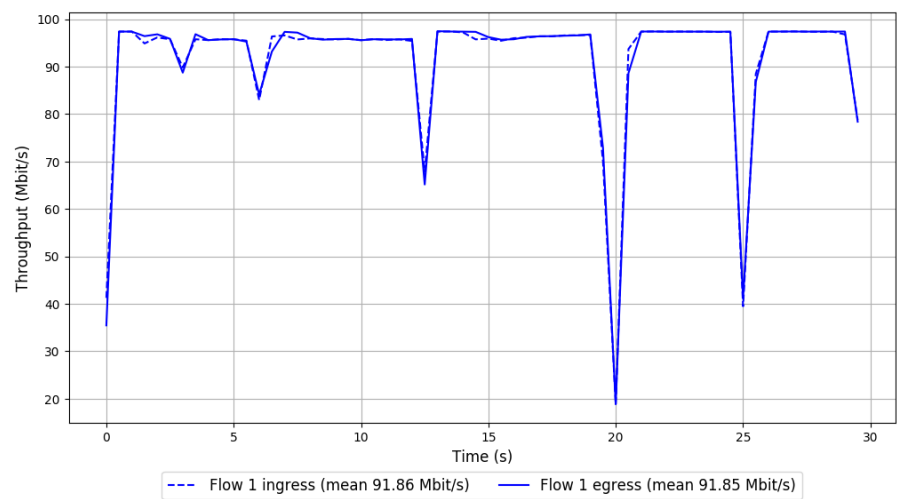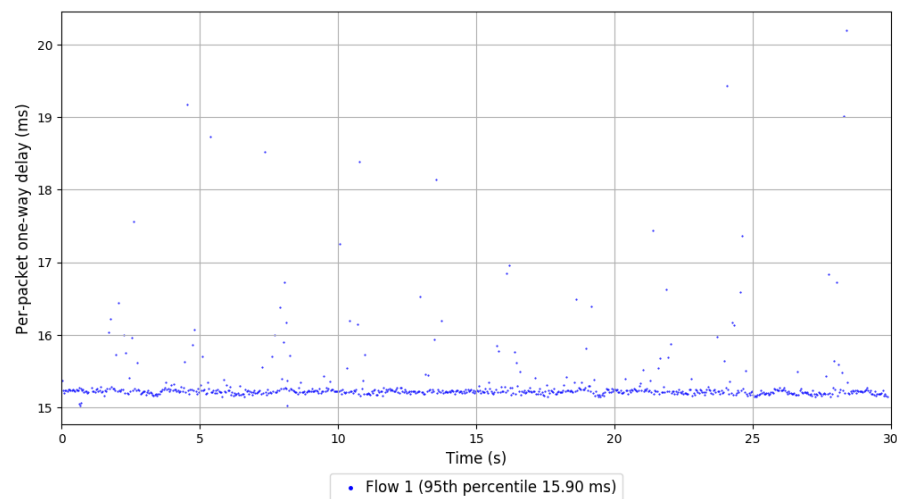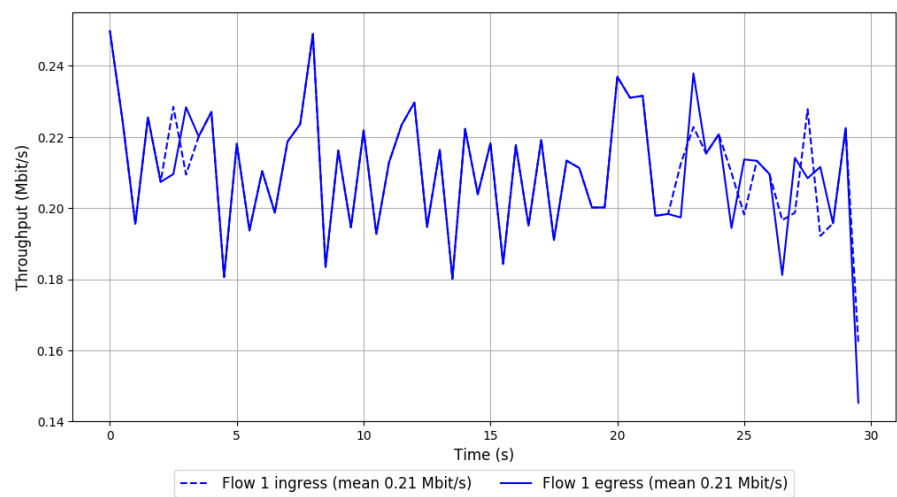
Run 9: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 89.18 Mbit/s) — Flow 1 egress (mean 89.16 Mbit/s)



Flow 1 (95th percentile 28.43 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-23 04:27:39
End at: 2017-09-23 04:28:09
Local clock offset: 0.297 ms
Remote clock offset: -4.482 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 29.921 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 29.921 ms
Loss rate: 0.10%
```

Run 10: Report of QUIC Cubic — Data Link



Flow 1 ingress (mean 91.86 Mbit/s) --- Flow 1 egress (mean 91.85 Mbit/s)
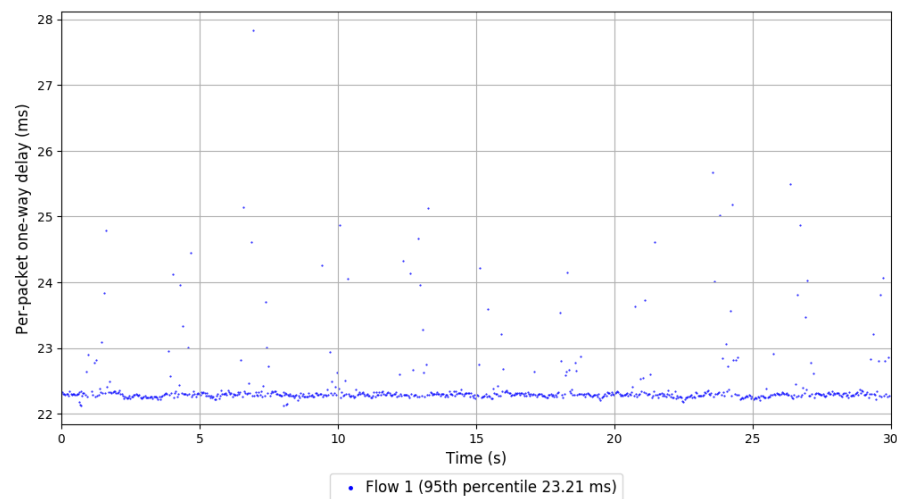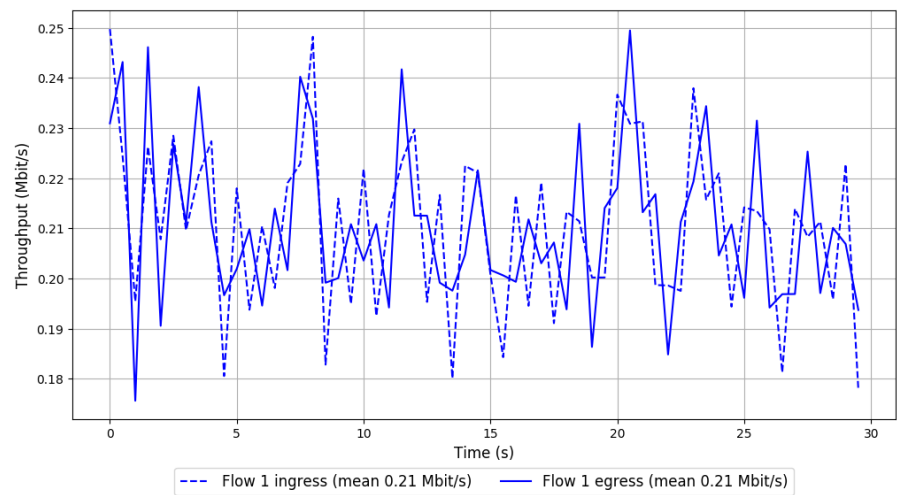


• Flow 1 (95th percentile 29.92 ms)

```
Run 1: Statistics of SCReAM

Start at: 2017-09-23 00:34:31
End at: 2017-09-23 00:35:01
Local clock offset: -8.378 ms
Remote clock offset: -8.408 ms

# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 15.900 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 15.900 ms
Loss rate: 0.13%
```
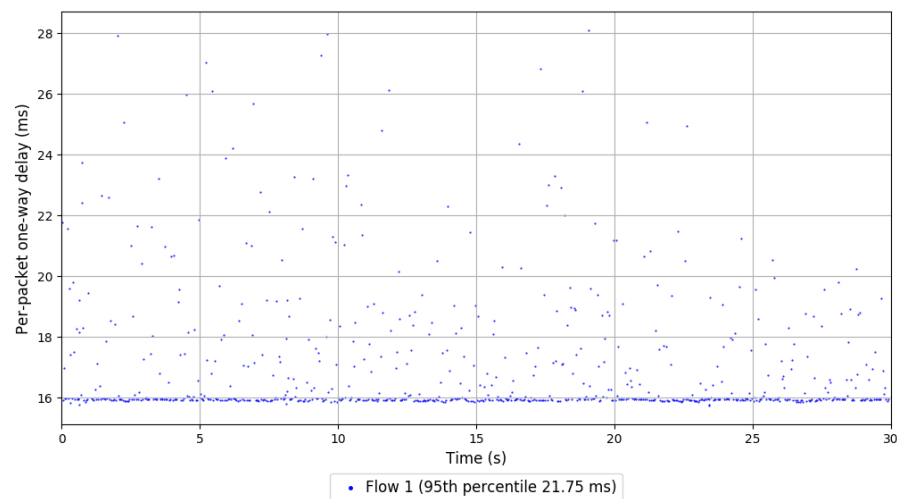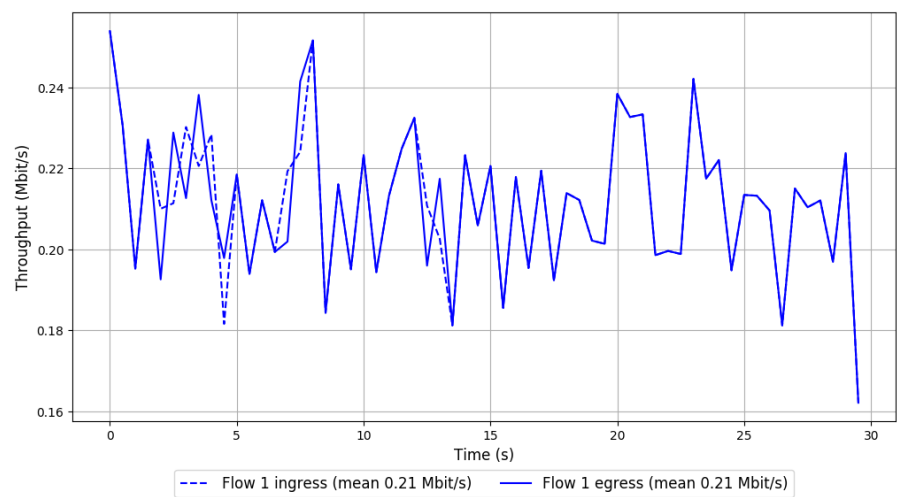
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2017-09-23 00:52:50
End at: 2017-09-23 00:53:20
Local clock offset: 1.343 ms
Remote clock offset: -6.138 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 23.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 23.207 ms
Loss rate: 0.00%
```
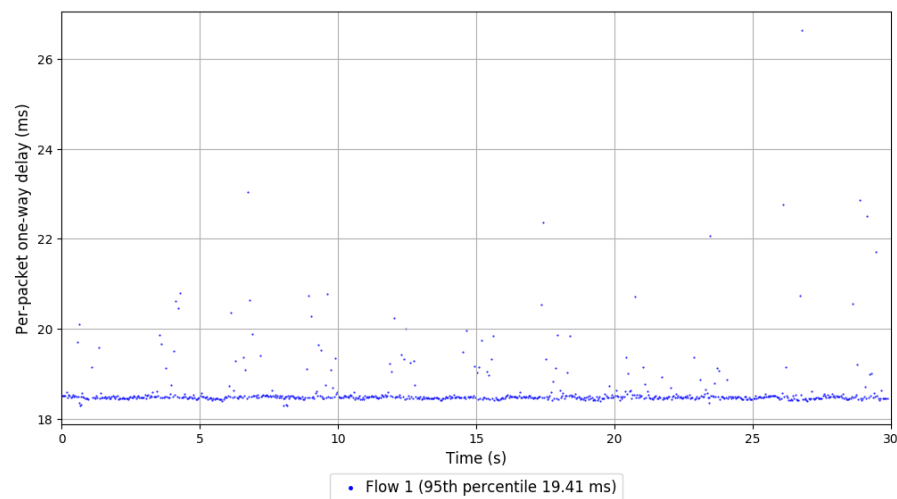
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2017-09-23 01:19:04
End at: 2017-09-23 01:19:34
Local clock offset: -1.55 ms
Remote clock offset: -3.133 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.749 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.749 ms
Loss rate: 0.00%
```
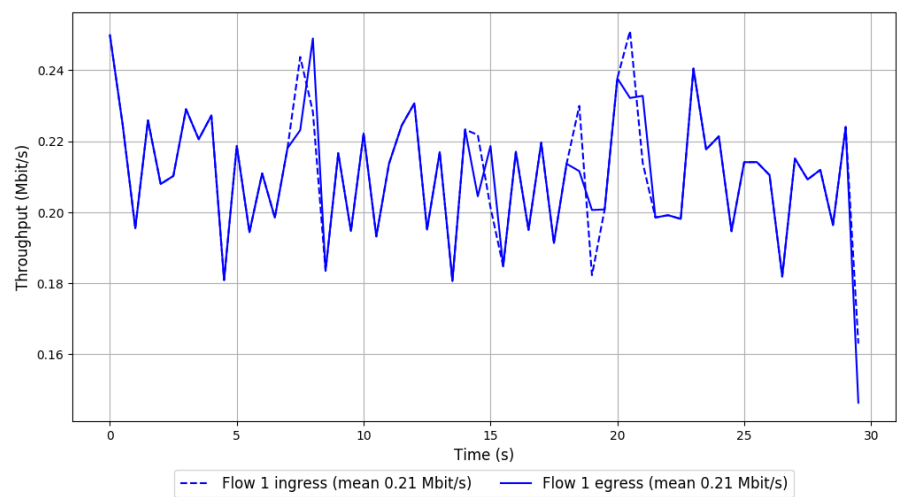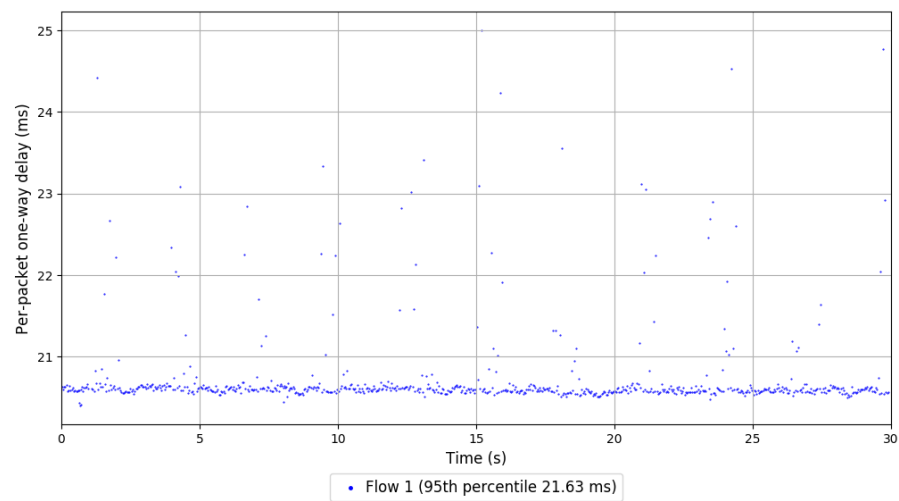
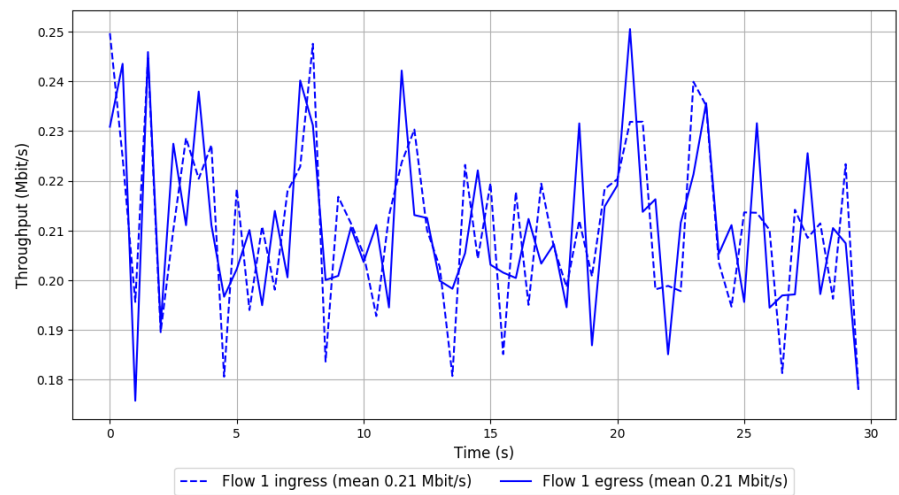# Run 3: Report of SCReAM — Data Link



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



Flow 1 (95th percentile 21.75 ms)

```
Run 4: Statistics of SCReAM

Start at: 2017-09-23 01:47:40
End at: 2017-09-23 01:48:10
Local clock offset: -0.483 ms
Remote clock offset: -5.29 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.409 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 19.409 ms
Loss rate: 0.13%
```
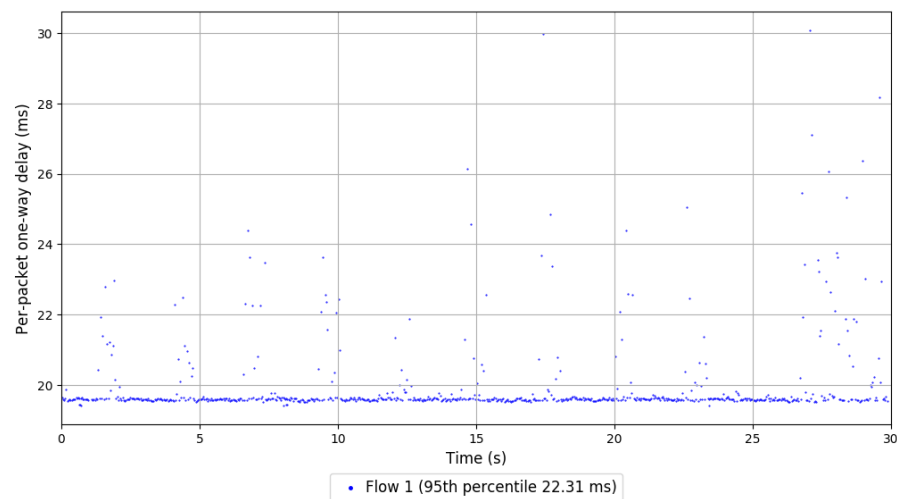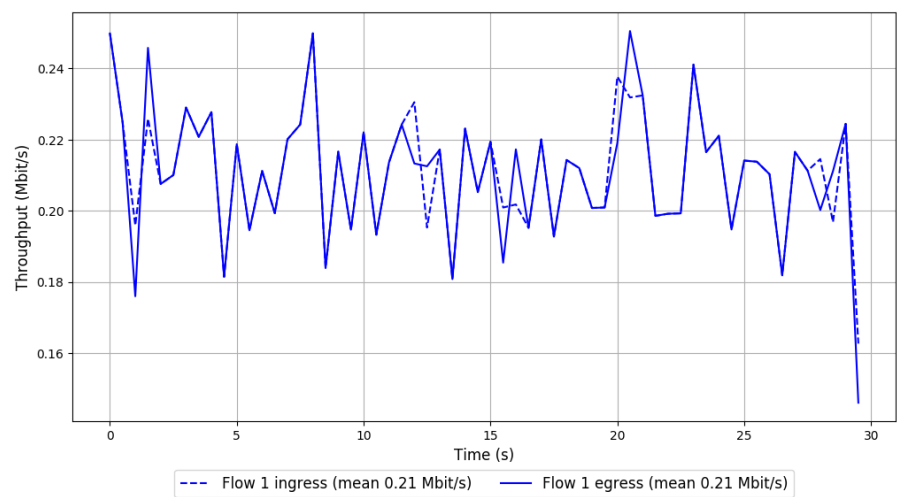
Run 4: Report of SCReAM — Data Link



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



Flow 1 (95th percentile 19.41 ms)

```
Run 5: Statistics of SCReAM

Start at: 2017-09-23 02:05:58
End at: 2017-09-23 02:06:28
Local clock offset: 1.919 ms
Remote clock offset: -4.799 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.634 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 21.634 ms
Loss rate: 0.13%
```
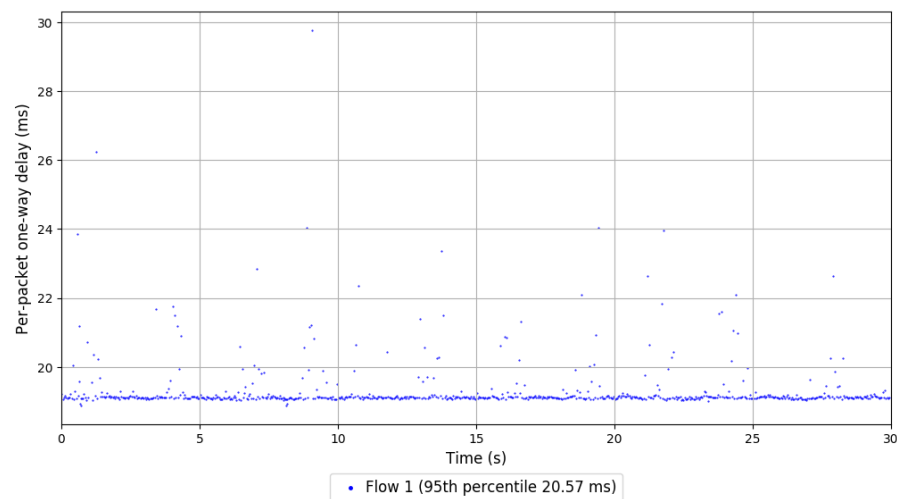
# Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2017-09-23 02:24:50
End at: 2017-09-23 02:25:20
Local clock offset: 1.33 ms
Remote clock offset: -4.563 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 22.313 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 22.313 ms
Loss rate: 0.13%
```
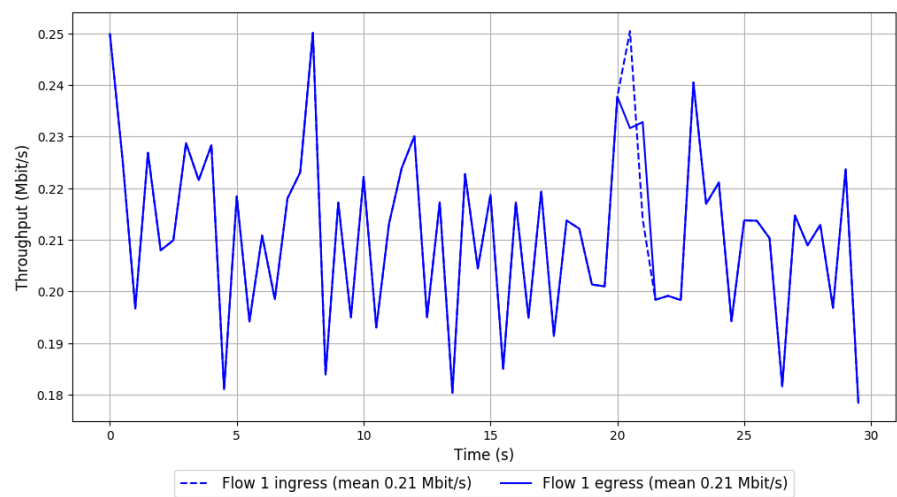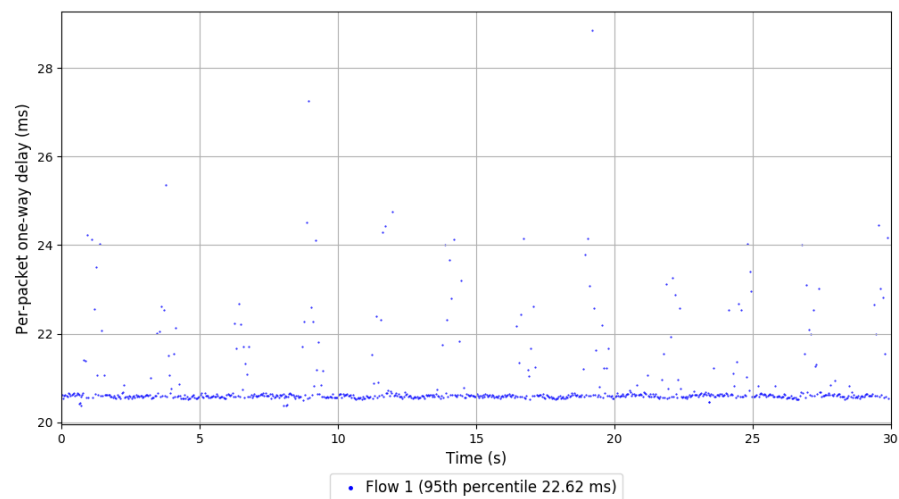
Run 6: Report of SCReAM — Data Link



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



Flow 1 (95th percentile 22.31 ms)

115

```
Run 7: Statistics of SCReAM

Start at: 2017-09-23 03:16:10
End at: 2017-09-23 03:16:40
Local clock offset: 1.431 ms
Remote clock offset: -4.61 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 20.571 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 20.571 ms
Loss rate: 0.00%
```
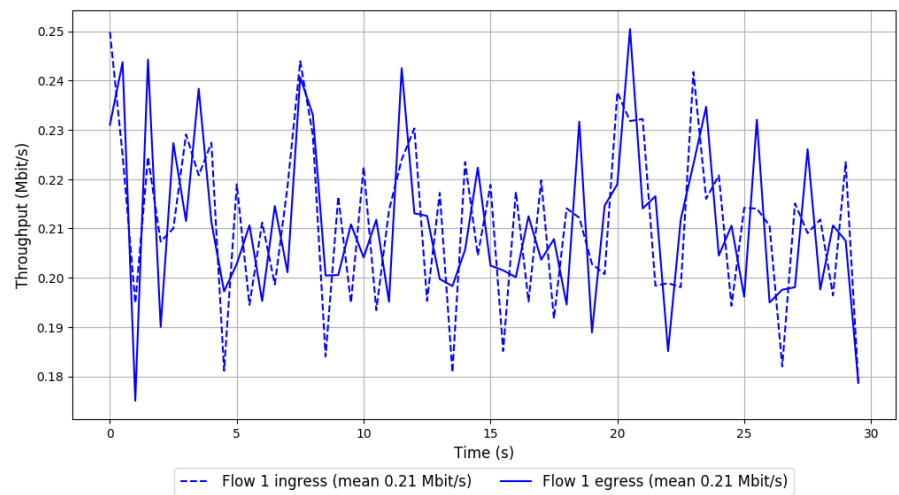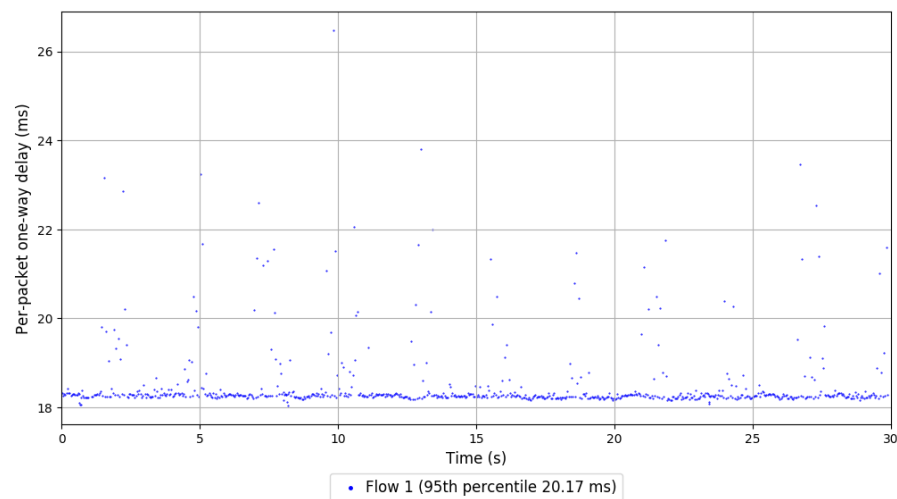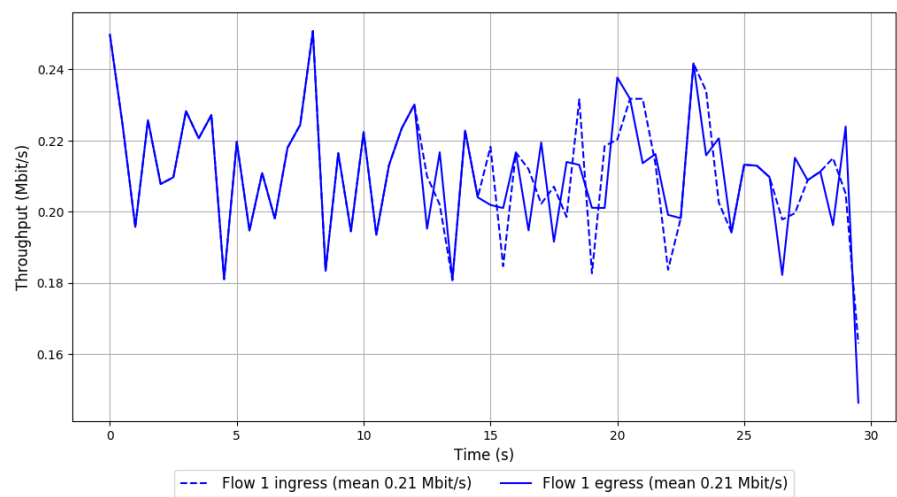
Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: 2017-09-23 03:36:08
End at: 2017-09-23 03:36:38
Local clock offset: 2.176 ms
Remote clock offset: -4.73 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 22.619 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 22.619 ms
Loss rate: 0.13%
```

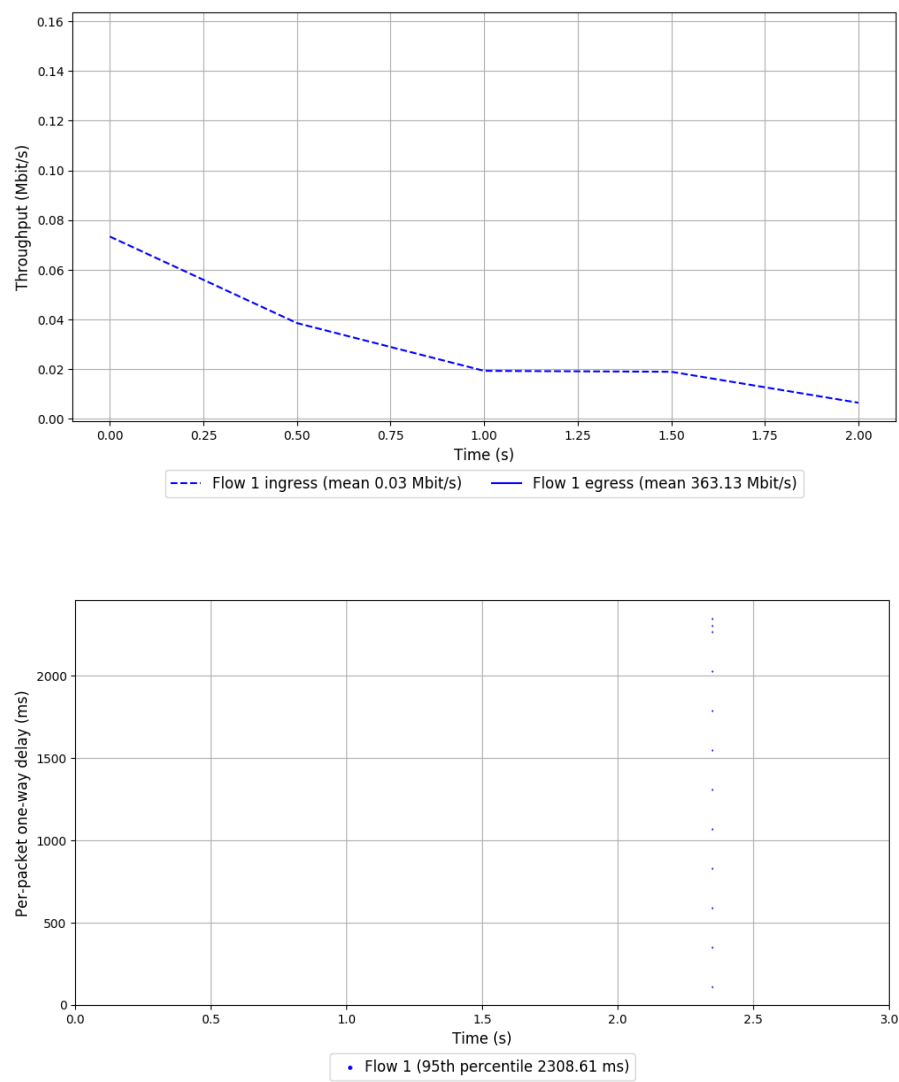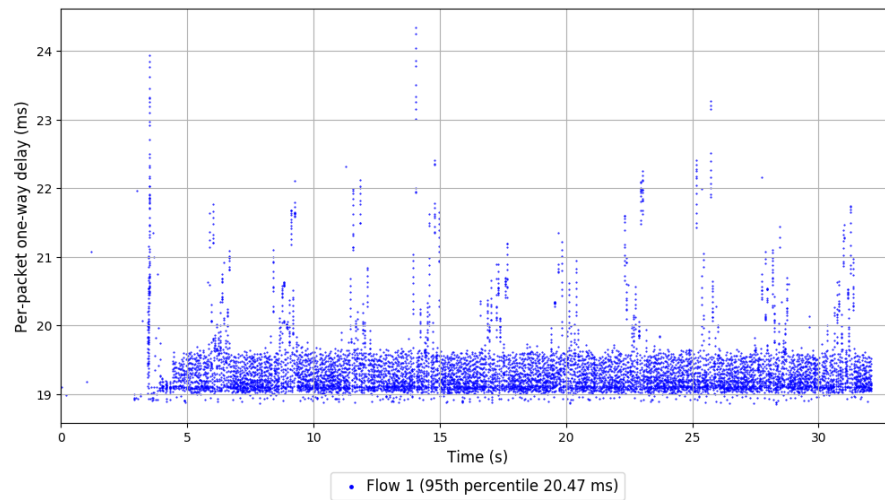Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: 2017-09-23 03:56:24
End at: 2017-09-23 03:56:54
Local clock offset: -0.295 ms
Remote clock offset: -4.638 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 20.171 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 20.171 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 20.17 ms)

Run 10: Statistics of SCReAM

Start at: 2017-09-23 04:14:21
End at: 2017-09-23 04:14:51
Local clock offset: -0.752 ms
Remote clock offset: -4.947 ms

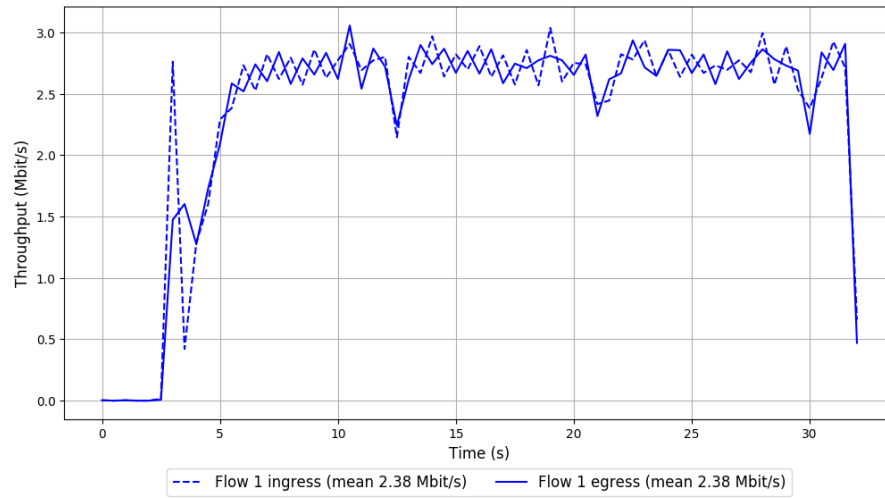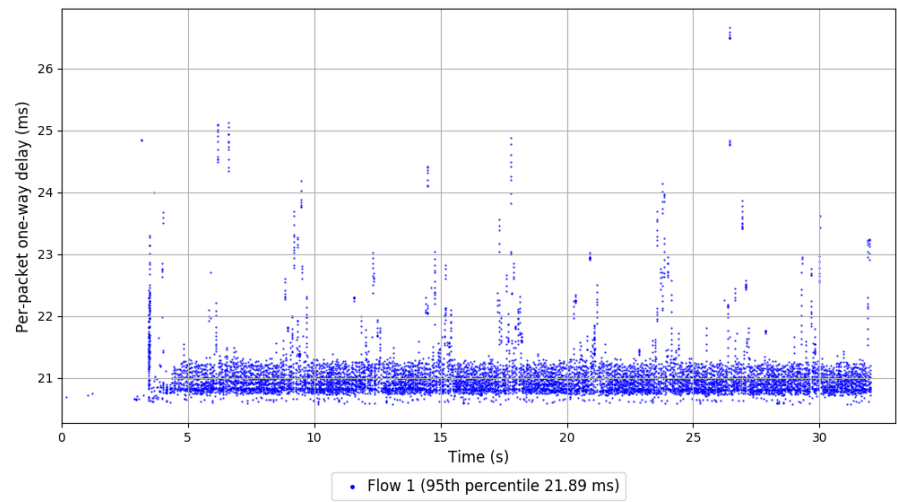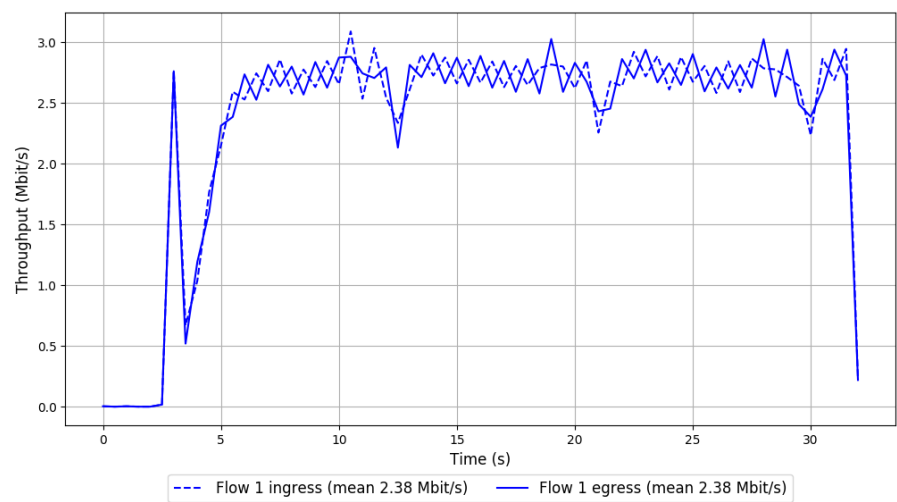## Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2017-09-23 00:37:07
End at: 2017-09-23 00:37:37
Local clock offset: -0.825 ms
Remote clock offset: -4.741 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 20.467 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 20.467 ms
Loss rate: 0.15%
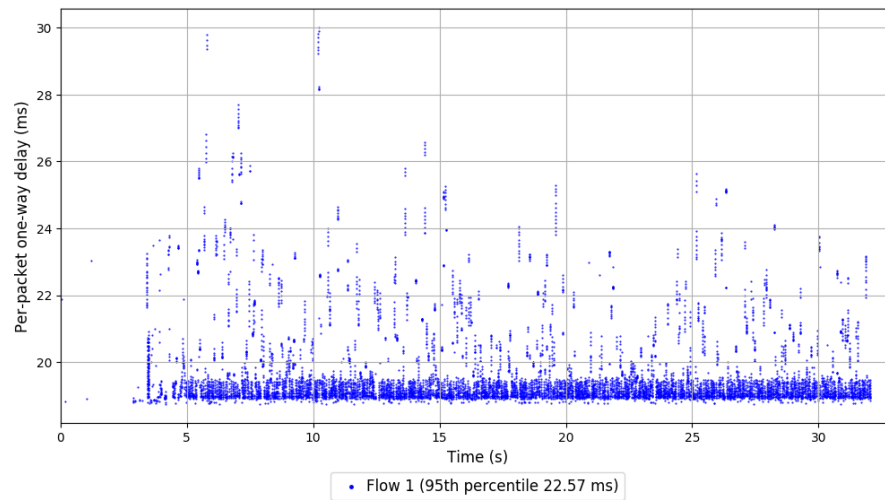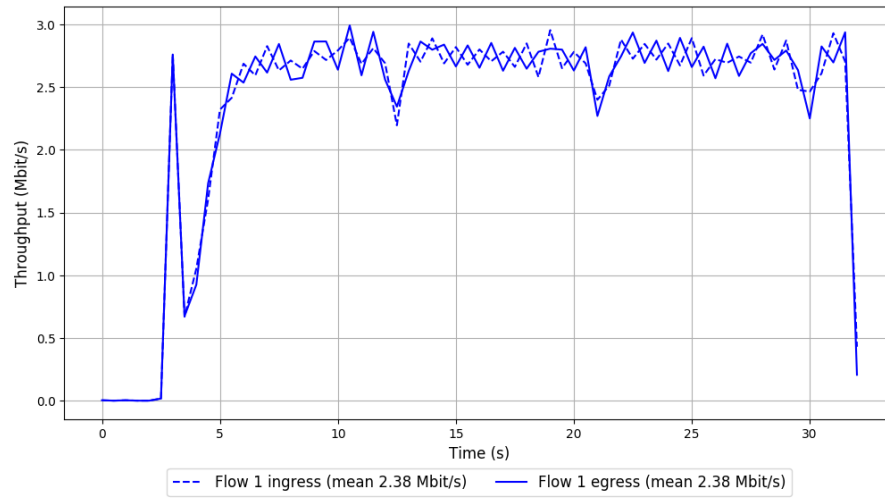```

Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2017-09-23 00:55:32
End at: 2017-09-23 00:56:02
Local clock offset: 0.948 ms
Remote clock offset: -5.175 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 21.890 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 21.890 ms
Loss rate: 0.15%
```
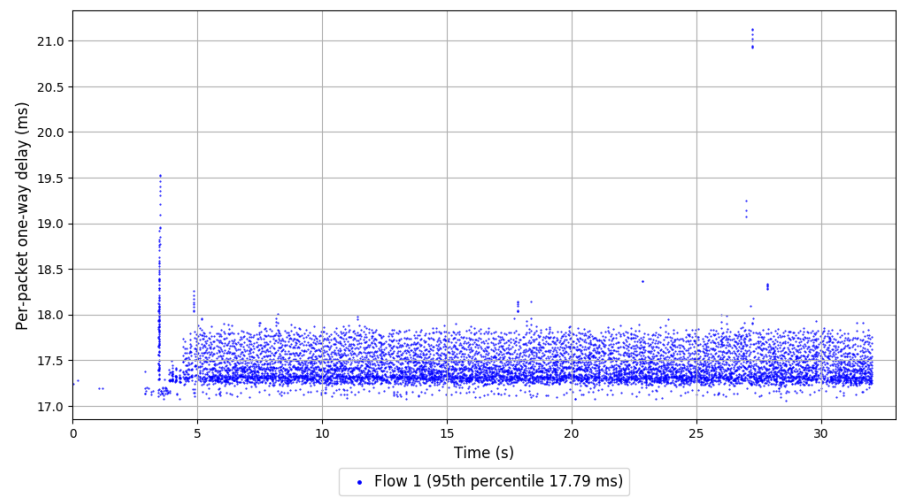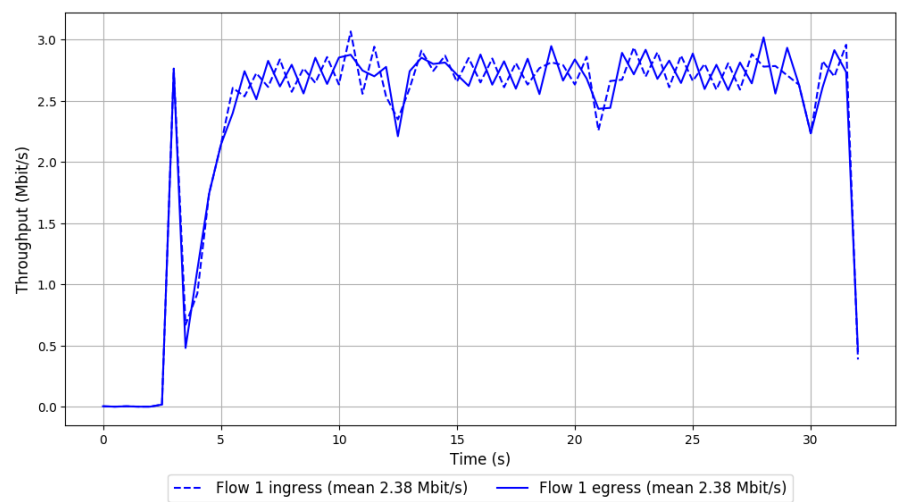
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2017-09-23 01:24:33
End at: 2017-09-23 01:25:03
Local clock offset: 1.004 ms
Remote clock offset: -3.673 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 22.569 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 22.569 ms
Loss rate: 0.15%
```
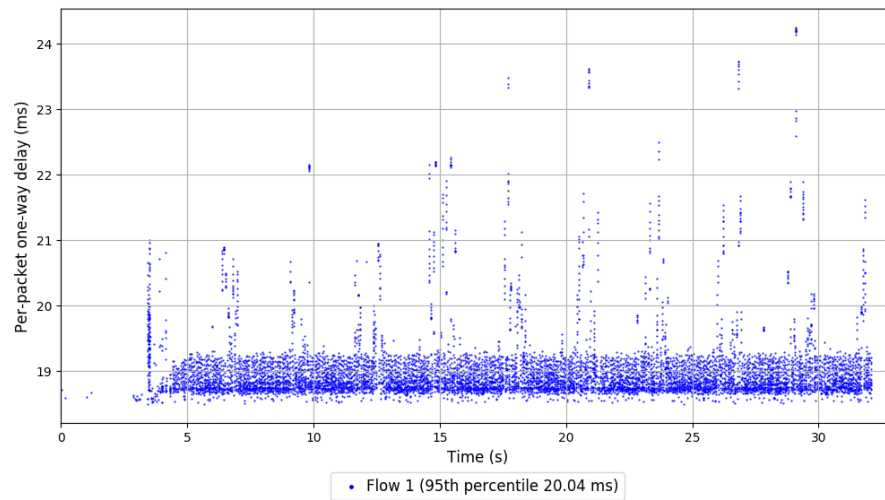
# Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2017-09-23 01:50:09
End at: 2017-09-23 01:50:39
Local clock offset: -0.464 ms
Remote clock offset: -4.098 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 17.786 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 17.786 ms
Loss rate: 0.10%
```

Run 4: Report of WebRTC media — Data Link



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

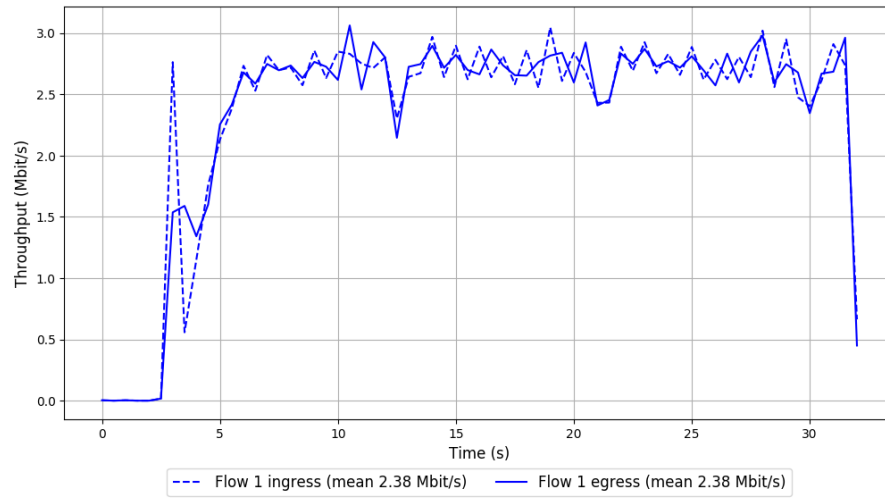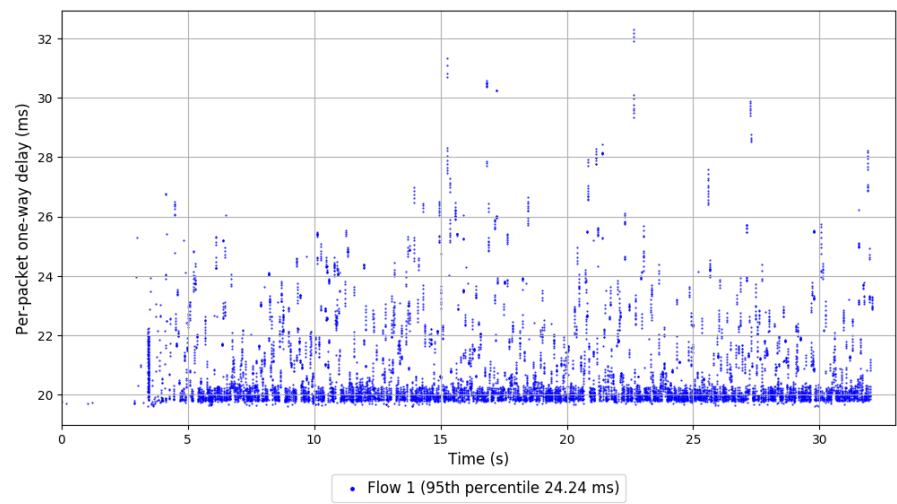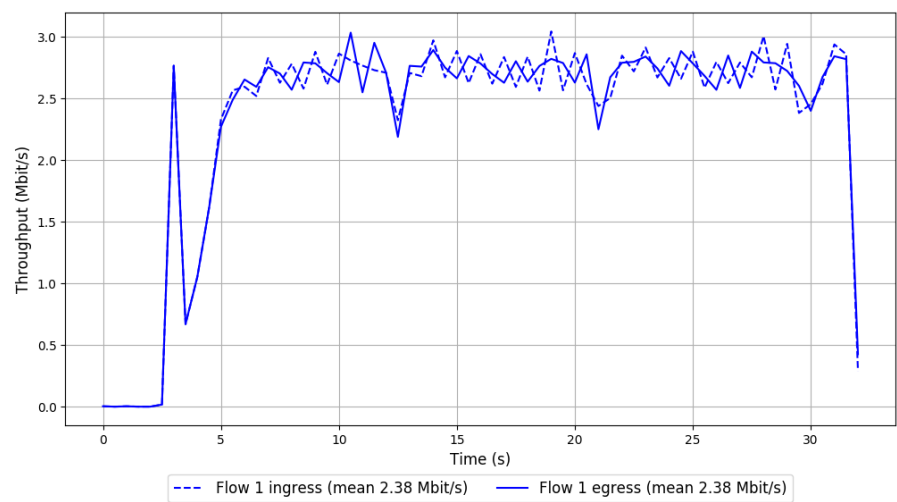

Flow 1 (95th percentile 17.79 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2017-09-23 02:08:47
End at: 2017-09-23 02:09:17
Local clock offset: 0.846 ms
Remote clock offset: -4.043 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 20.036 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 20.036 ms
Loss rate: 0.14%
```
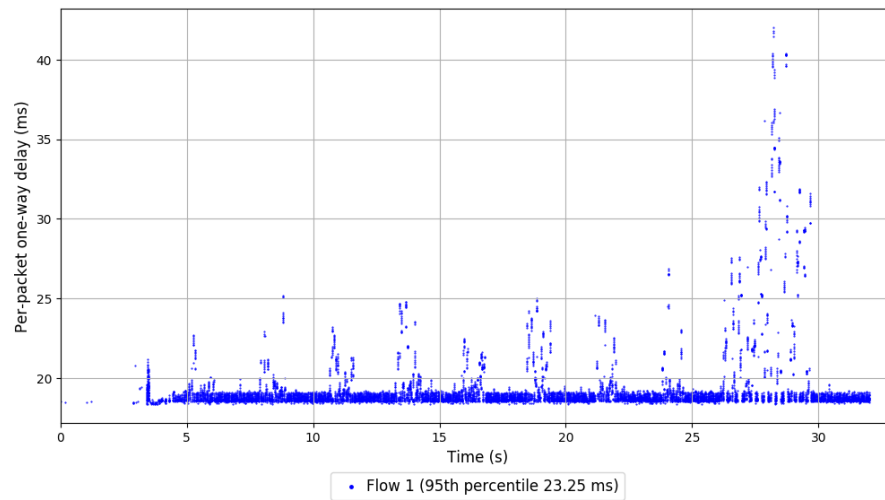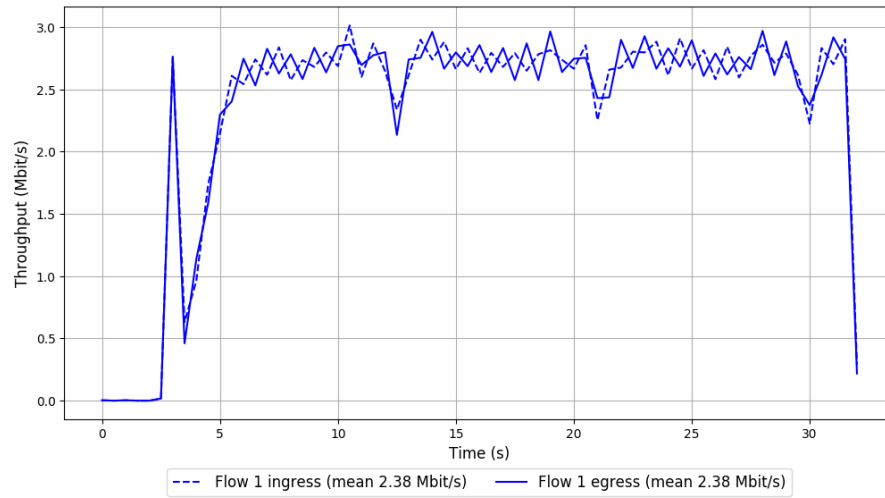
Run 5: Report of WebRTC media — Data Link



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



Flow 1 (95th percentile 20.04 ms)

```
Run 6: Statistics of WebRTC media

Start at: 2017-09-23 02:30:09
End at: 2017-09-23 02:30:39
Local clock offset: 1.097 ms
Remote clock offset: -5.098 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 24.238 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 24.238 ms
Loss rate: 0.00%
```
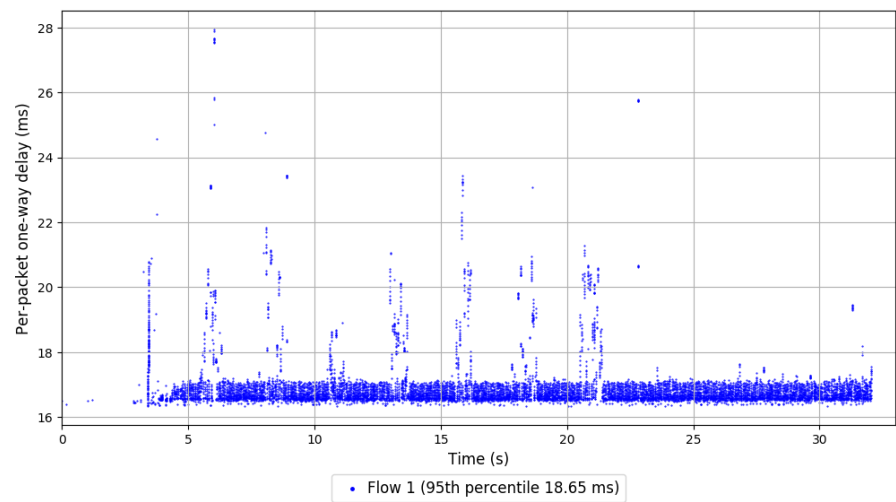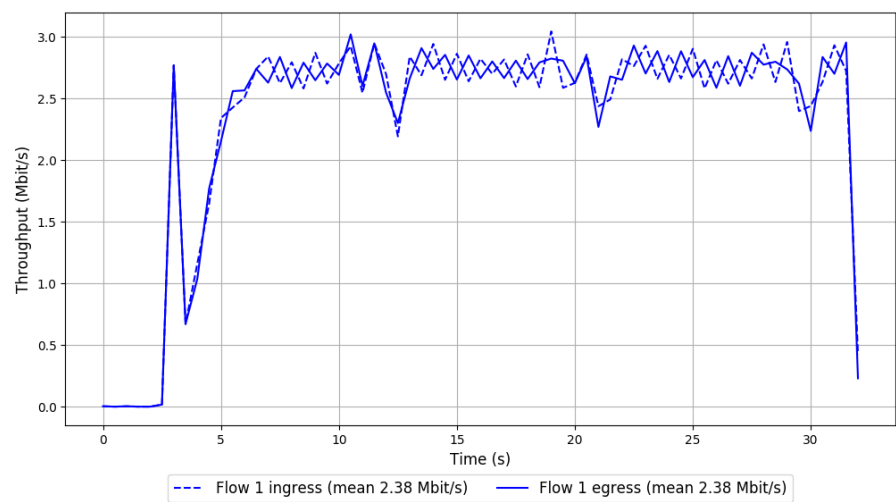
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2017-09-23 03:18:56
End at: 2017-09-23 03:19:26
Local clock offset: 1.068 ms
Remote clock offset: -4.392 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 23.254 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 23.254 ms
Loss rate: 0.15%
```

Run 7: Report of WebRTC media — Data Link



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



• Flow 1 (95th percentile 23.25 ms)

```
Run 8: Statistics of WebRTC media

Start at: 2017-09-23 03:38:55
End at: 2017-09-23 03:39:25
Local clock offset: -0.88 ms
Remote clock offset: -3.707 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 18.651 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 18.651 ms
Loss rate: 0.13%
```
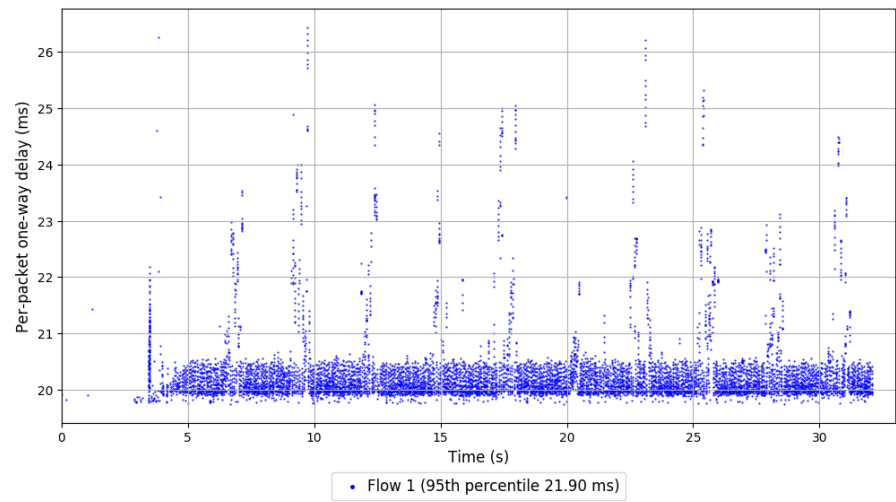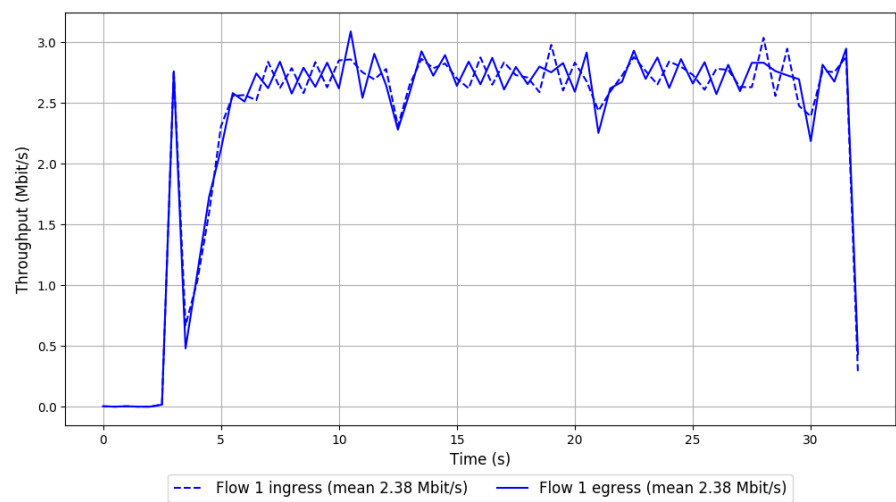
Run 8: Report of WebRTC media — Data Link



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



Flow 1 (95th percentile 18.65 ms)

```
Run 9: Statistics of WebRTC media

Start at: 2017-09-23 03:59:15
End at: 2017-09-23 03:59:45
Local clock offset: 1.461 ms
Remote clock offset: -4.61 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 21.898 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 21.898 ms
Loss rate: 0.00%
```
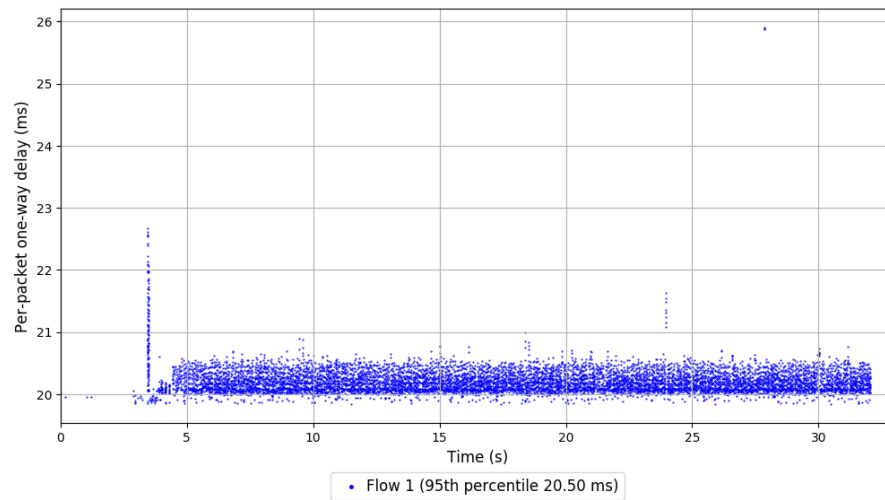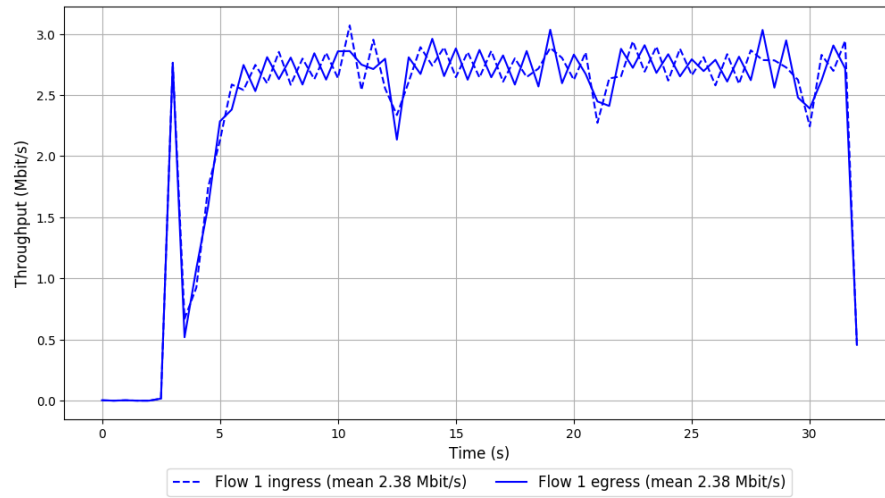
Run 9: Report of WebRTC media — Data Link



Flow 1 ingress (mean 2.38 Mbit/s) --- Flow 1 egress (mean 2.38 Mbit/s)



Flow 1 (95th percentile 21.90 ms)

```
Run 10: Statistics of WebRTC media

Start at: 2017-09-23 04:16:50
End at: 2017-09-23 04:17:20
Local clock offset: -3.717 ms
Remote clock offset: -10.056 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 20.495 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.38 Mbit/s
95th percentile per-packet one-way delay: 20.495 ms
Loss rate: 0.13%
```
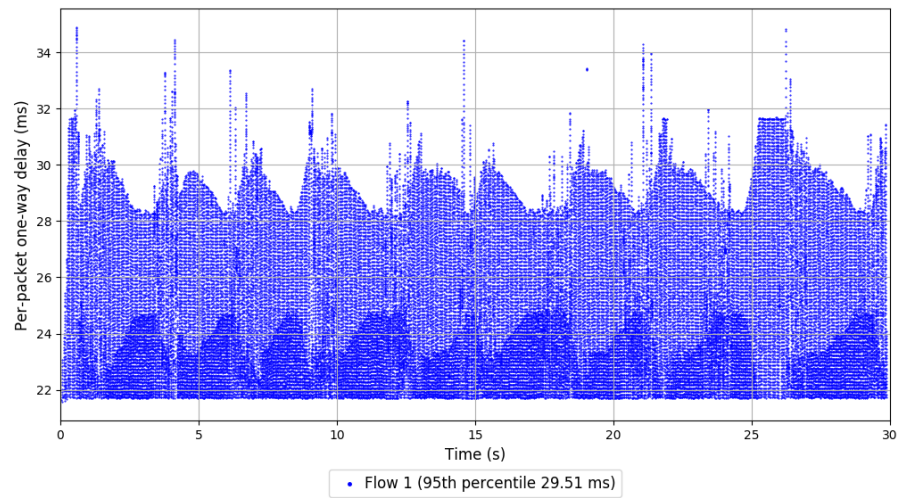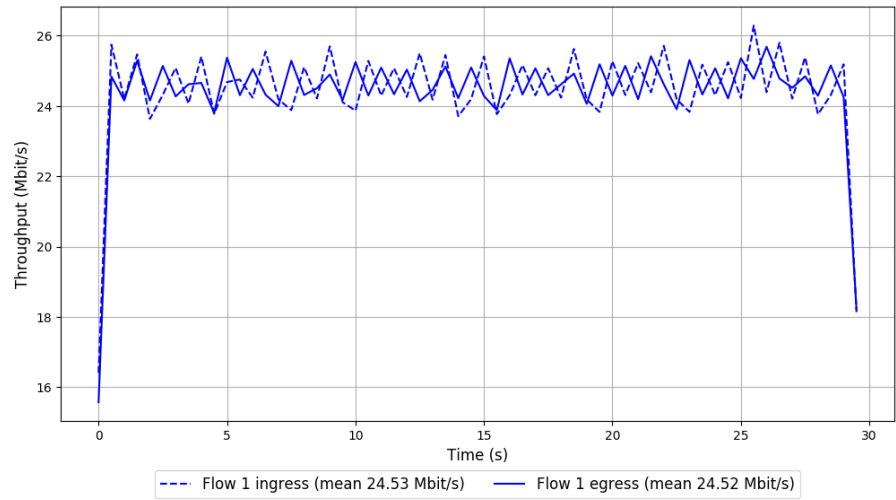
Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2017-09-23 00:44:54
End at: 2017-09-23 00:45:24
Local clock offset: -1.452 ms
Remote clock offset: -4.424 ms
```

Run 1: Report of Sprout — Data Link



Flow 1 ingress (mean 16.77 Mbit/s)      Flow 1 egress (mean 24.27 Mbit/s)
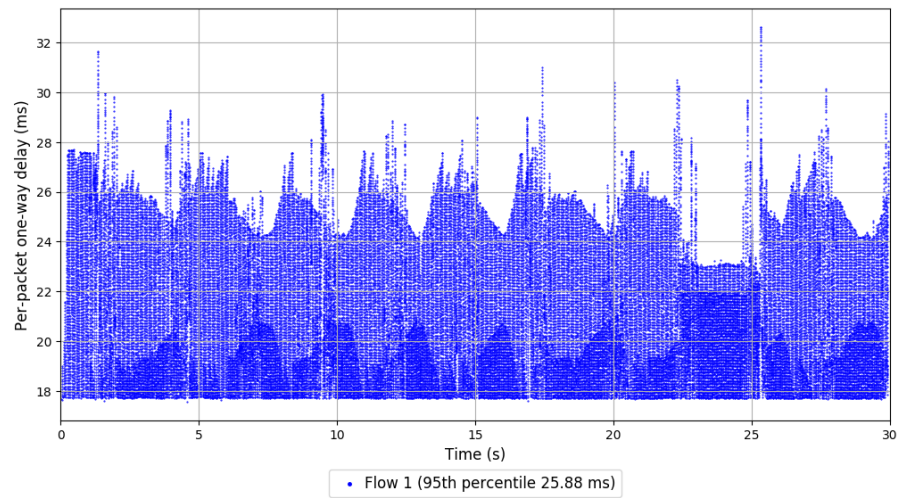


Flow 1 (95th percentile 25.80 ms)

```
Run 2: Statistics of Sprout

Start at: 2017-09-23 01:03:24
End at: 2017-09-23 01:03:54
Local clock offset: 1.86 ms
Remote clock offset: -5.45 ms

# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 29.510 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.52 Mbit/s
95th percentile per-packet one-way delay: 29.510 ms
Loss rate: 0.10%
```

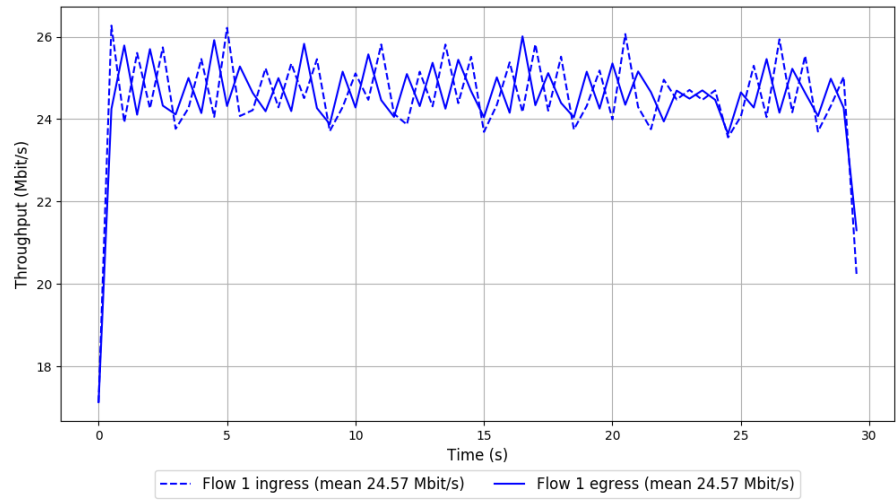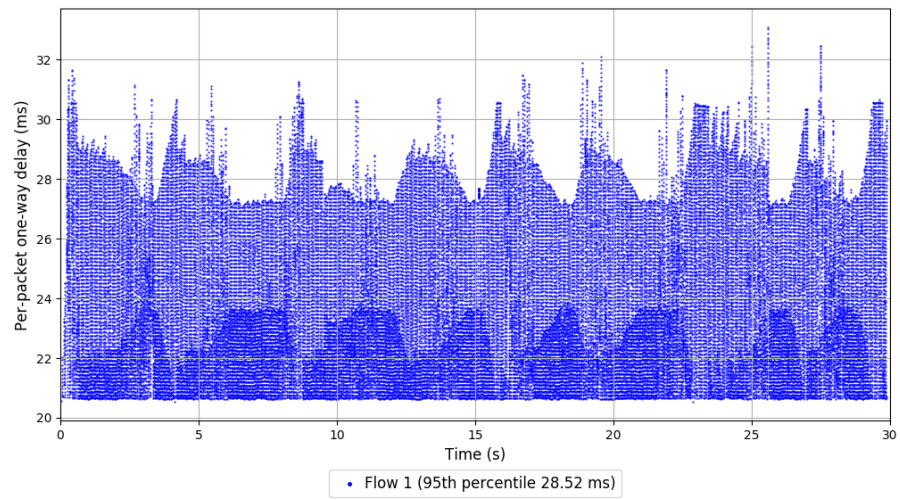Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2017-09-23 01:39:32
End at: 2017-09-23 01:40:02
Local clock offset: -0.023 ms
Remote clock offset: -3.75 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 25.879 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 25.879 ms
Loss rate: 0.02%
```

Run 3: Report of Sprout — Data Link



Flow 1 ingress (mean 24.57 Mbit/s)    Flow 1 egress (mean 24.57 Mbit/s)



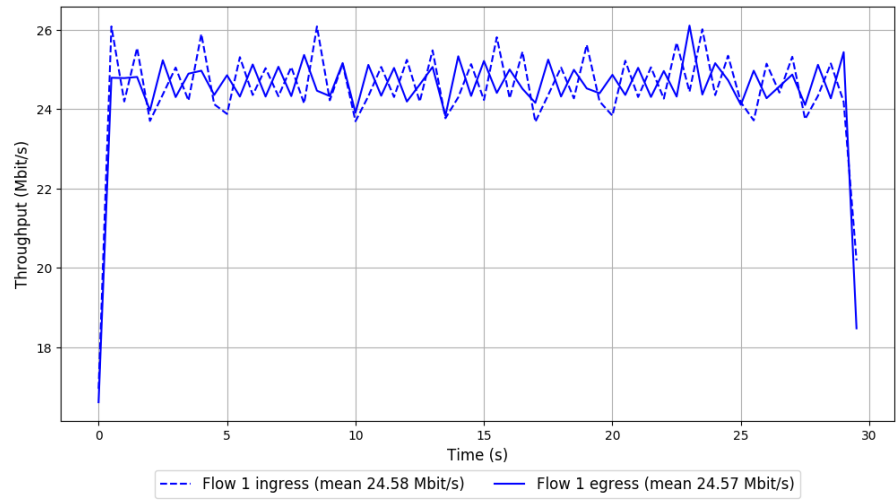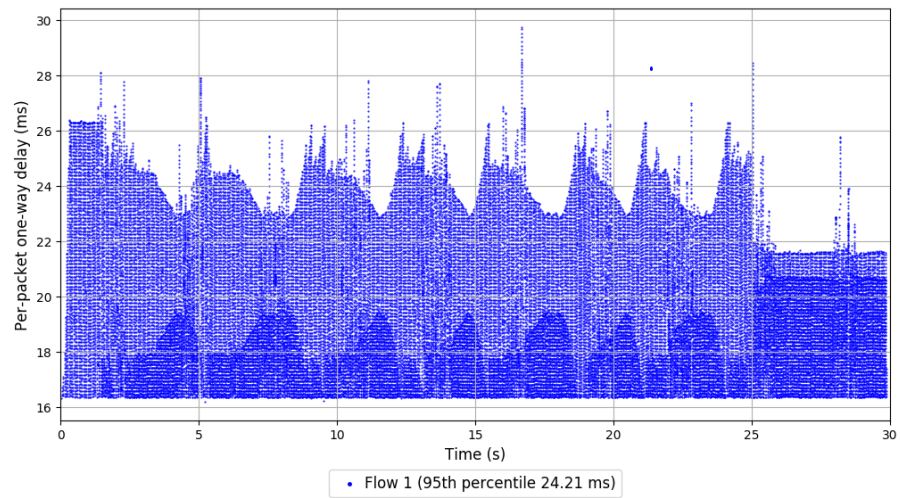Flow 1 (95th percentile 25.88 ms)

```
Run 4: Statistics of Sprout

Start at: 2017-09-23 01:57:45
End at: 2017-09-23 01:58:15
Local clock offset: 2.416 ms
Remote clock offset: -4.482 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 28.516 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 28.516 ms
Loss rate: 0.13%
```

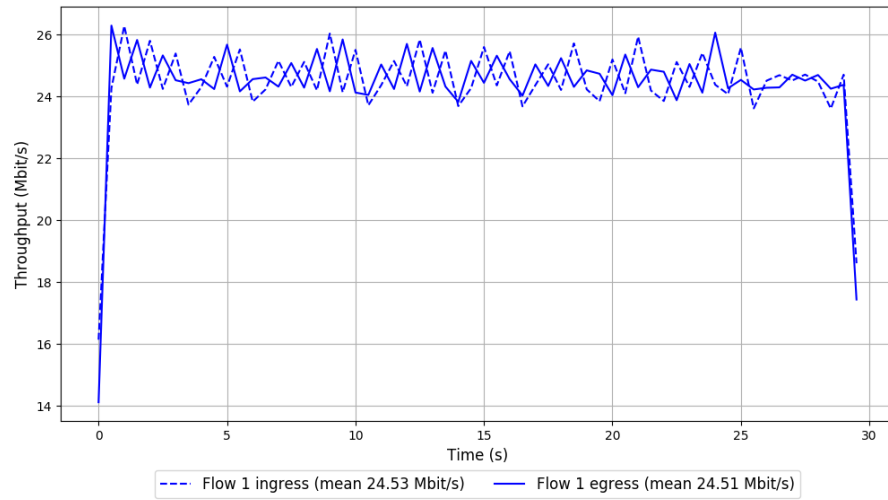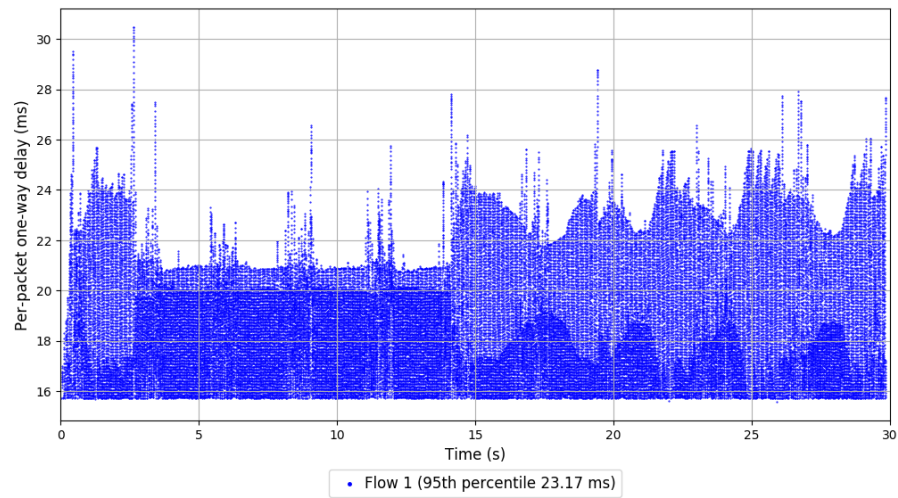Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2017-09-23 02:17:06
End at: 2017-09-23 02:17:36
Local clock offset: -1.597 ms
Remote clock offset: -4.228 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 24.213 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.51 Mbit/s
95th percentile per-packet one-way delay: 24.213 ms
Loss rate: 0.12%
```

## Run 5: Report of Sprout — Data Link



Flow 1 ingress (mean 24.53 Mbit/s)     Flow 1 egress (mean 24.51 Mbit/s)



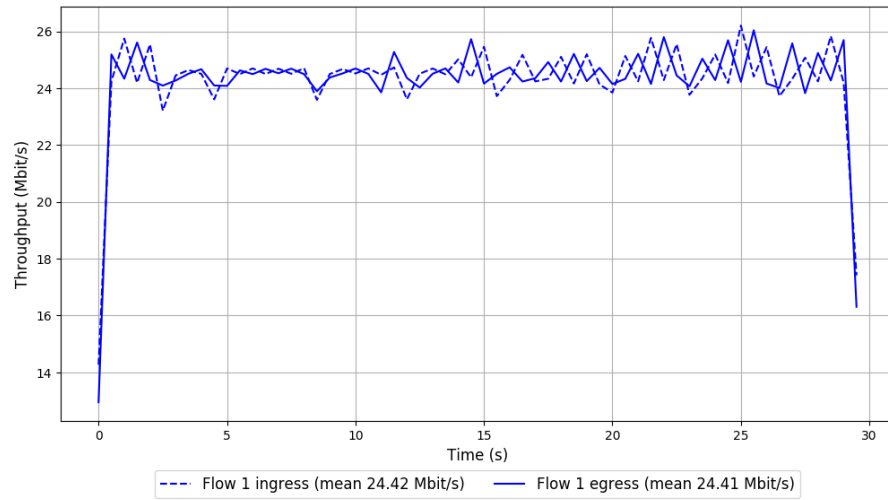• Flow 1 (95th percentile 24.21 ms)

```
Run 6: Statistics of Sprout

Start at: 2017-09-23 03:07:38
End at: 2017-09-23 03:08:08
Local clock offset: -0.934 ms
Remote clock offset: -3.575 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 23.173 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 24.41 Mbit/s
95th percentile per-packet one-way delay: 23.173 ms
Loss rate: 0.10%
```

Run 6: Report of Sprout — Data Link



Flow 1 ingress (mean 24.42 Mbit/s) ----- Flow 1 egress (mean 24.41 Mbit/s) ———



• Flow 1 (95th percentile 23.17 ms)

```
Run 7: Statistics of Sprout

Start at: 2017-09-23 03:27:21
End at: 2017-09-23 03:27:51
Local clock offset: 0.219 ms
Remote clock offset: -3.888 ms
```

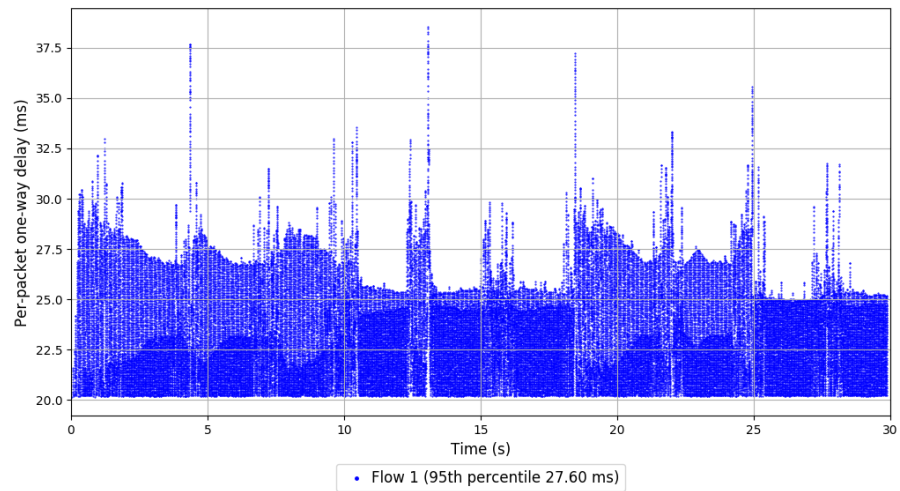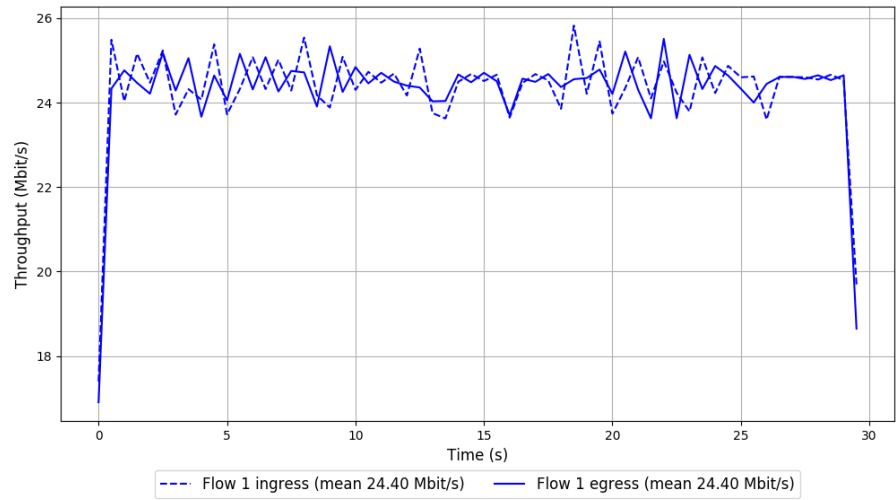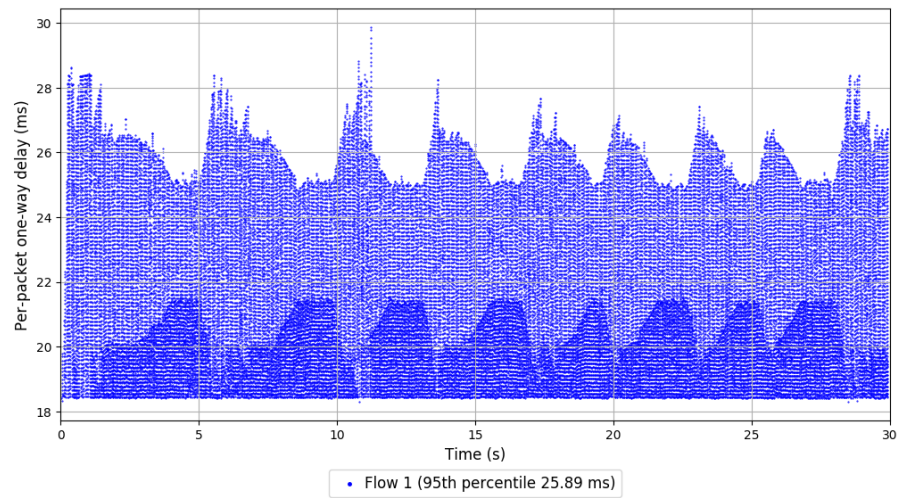Run 7: Report of Sprout — Data Link

Figure is missing
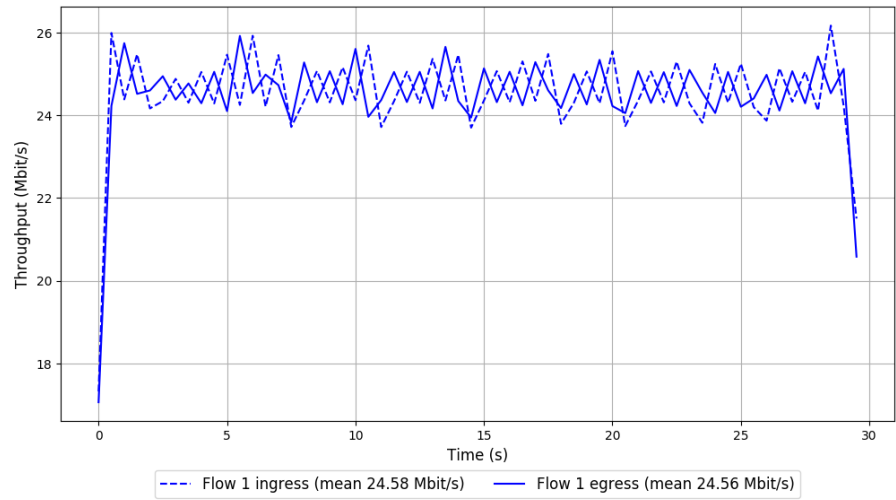
Figure is missing

```
Run 8: Statistics of Sprout

Start at: 2017-09-23 03:47:22
End at: 2017-09-23 03:47:52
Local clock offset: 1.331 ms
Remote clock offset: -4.971 ms


# Below is generated by plot.py at 2017-09-23 07:31:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 27.600 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 24.40 Mbit/s
95th percentile per-packet one-way delay: 27.600 ms
Loss rate: 0.13%
```

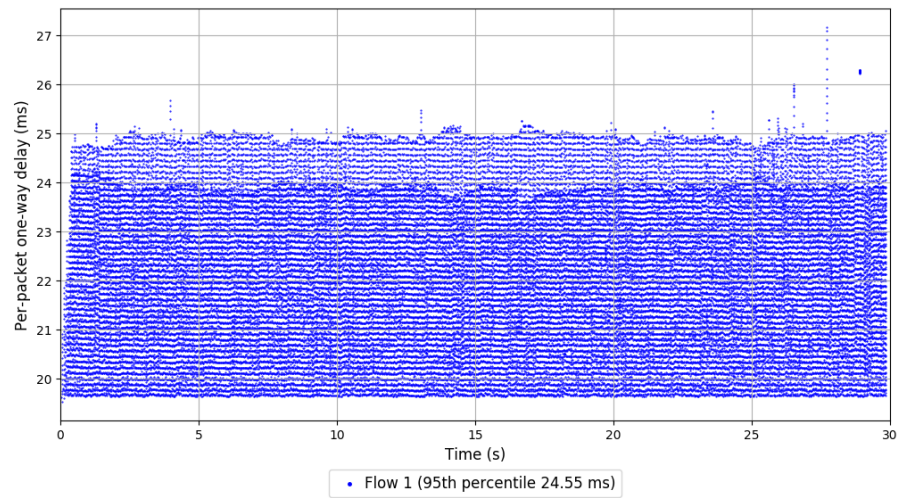## Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2017-09-23 04:06:59
End at: 2017-09-23 04:07:29
Local clock offset: 1.003 ms
Remote clock offset: -3.595 ms


# Below is generated by plot.py at 2017-09-23 07:31:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 25.894 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 24.56 Mbit/s
95th percentile per-packet one-way delay: 25.894 ms
Loss rate: 0.12%
```

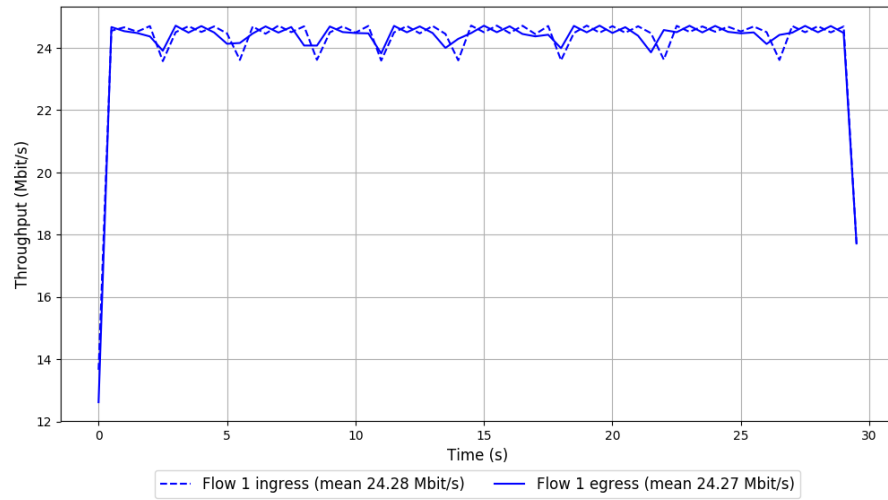Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2017-09-23 04:24:11
End at: 2017-09-23 04:24:41
Local clock offset: 0.885 ms
Remote clock offset: -5.167 ms


# Below is generated by plot.py at 2017-09-23 07:31:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 24.552 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 24.552 ms
Loss rate: 0.08%
```
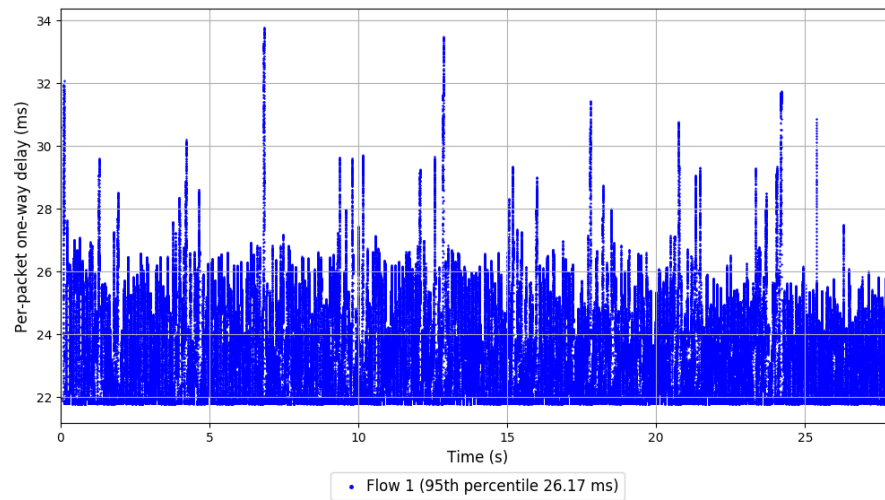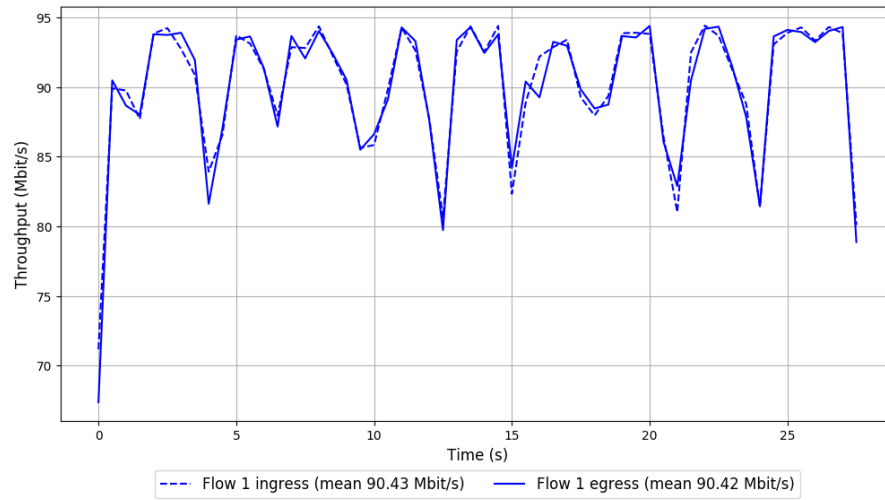
Run 10: Report of Sprout — Data Link



Flow 1 ingress (mean 24.28 Mbit/s) ---- Flow 1 egress (mean 24.27 Mbit/s)
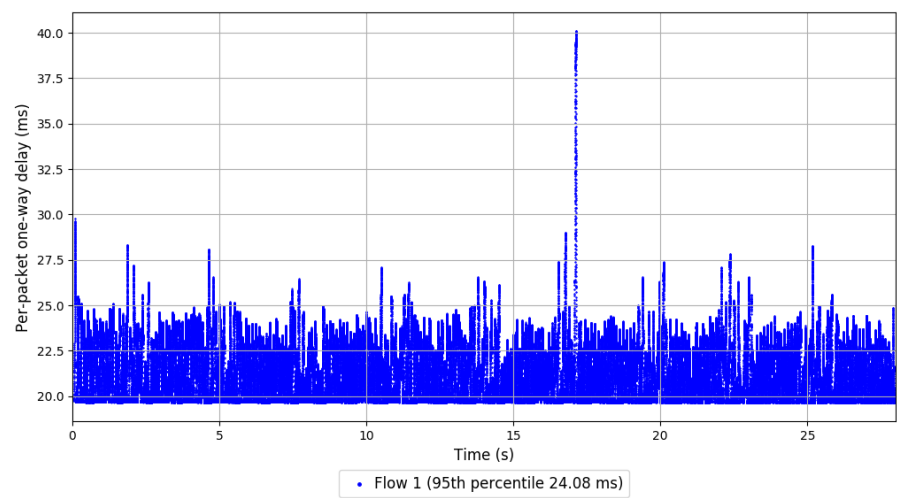


• Flow 1 (95th percentile 24.55 ms)

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

Start at: 2017-09-23 00:35:37
End at: 2017-09-23 00:36:07
Local clock offset: 0.981 ms
Remote clock offset: -5.673 ms

# Below is generated by plot.py at 2017-09-23 07:33:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 26.172 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 90.42 Mbit/s
95th percentile per-packet one-way delay: 26.172 ms
Loss rate: 0.11%
```

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



Flow 1 ingress (mean 90.43 Mbit/s) ---- Flow 1 egress (mean 90.42 Mbit/s) ——
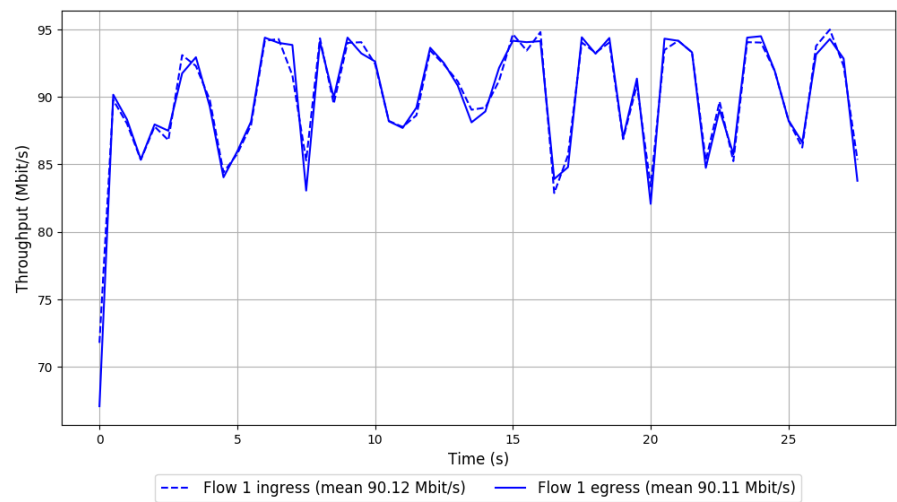


Flow 1 (95th percentile 26.17 ms)

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

Start at: 2017-09-23 00:53:55
End at: 2017-09-23 00:54:25
Local clock offset: -0.052 ms
Remote clock offset: -4.989 ms

# Below is generated by plot.py at 2017-09-23 07:33:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 24.078 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 24.078 ms
Loss rate: 0.11%
```
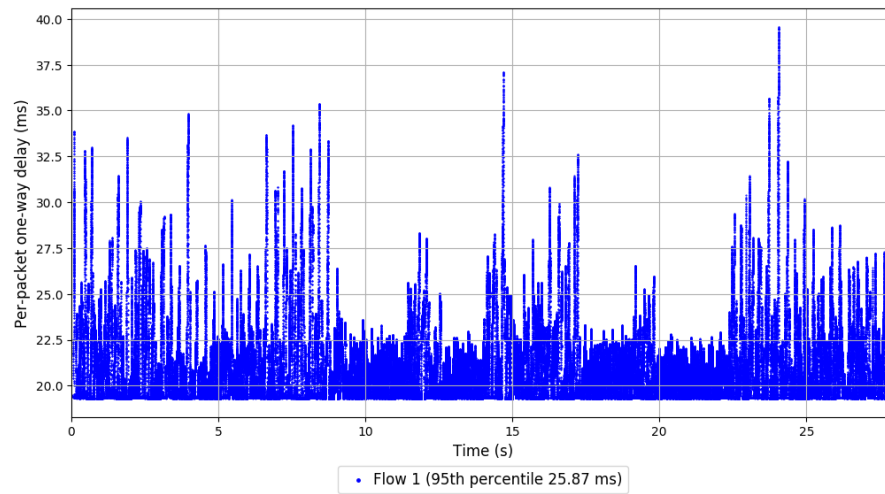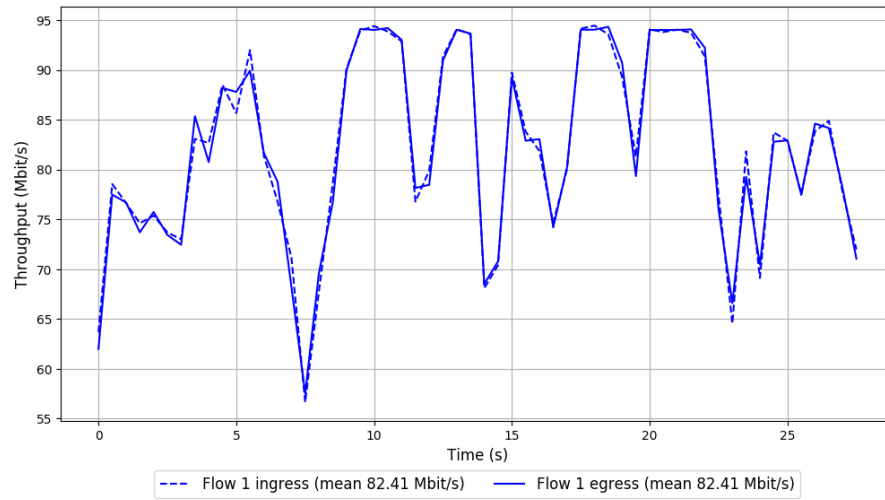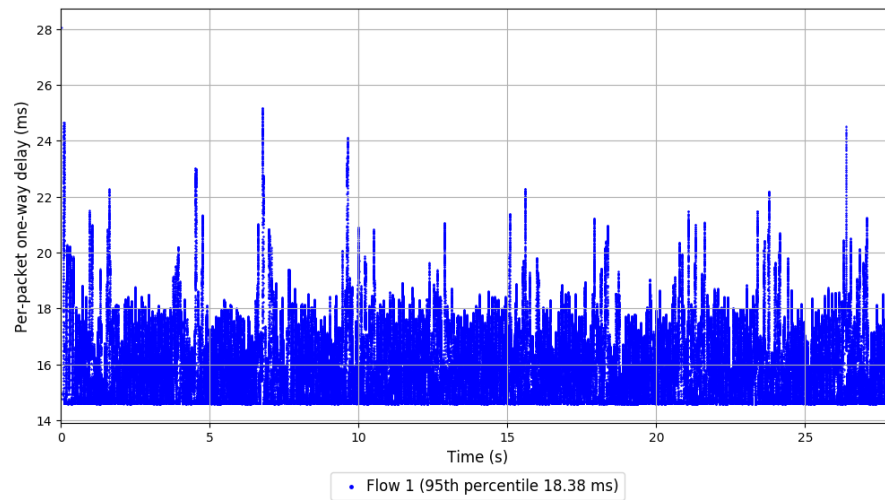
Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2017-09-23 01:20:18
End at: 2017-09-23 01:20:48
Local clock offset: 1.161 ms
Remote clock offset: -3.838 ms


# Below is generated by plot.py at 2017-09-23 07:33:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.41 Mbit/s
95th percentile per-packet one-way delay: 25.874 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 82.41 Mbit/s
95th percentile per-packet one-way delay: 25.874 ms
Loss rate: 0.10%
```

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



Flow 1 ingress (mean 82.41 Mbit/s)   Flow 1 egress (mean 82.41 Mbit/s)

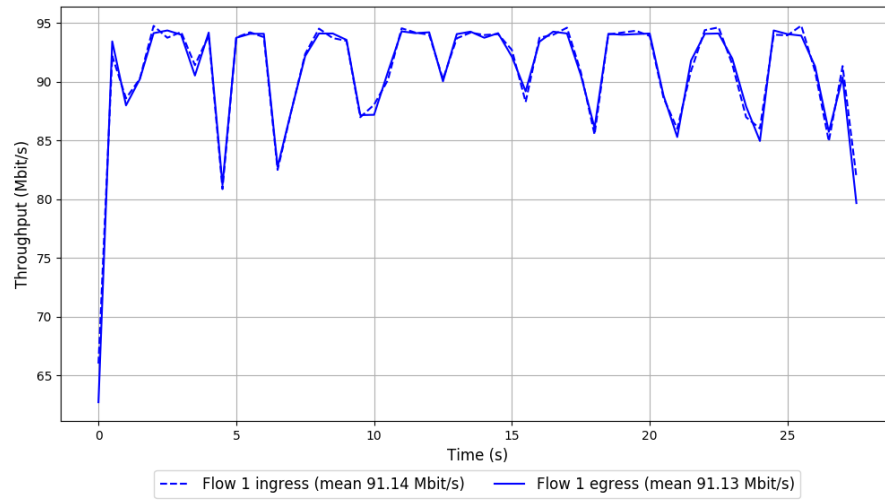

Flow 1 (95th percentile 25.87 ms)

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

Start at: 2017-09-23 01:48:44
End at: 2017-09-23 01:49:14
Local clock offset: -7.608 ms
Remote clock offset: -8.567 ms


# Below is generated by plot.py at 2017-09-23 07:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 18.380 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 18.380 ms
Loss rate: 0.11%
```
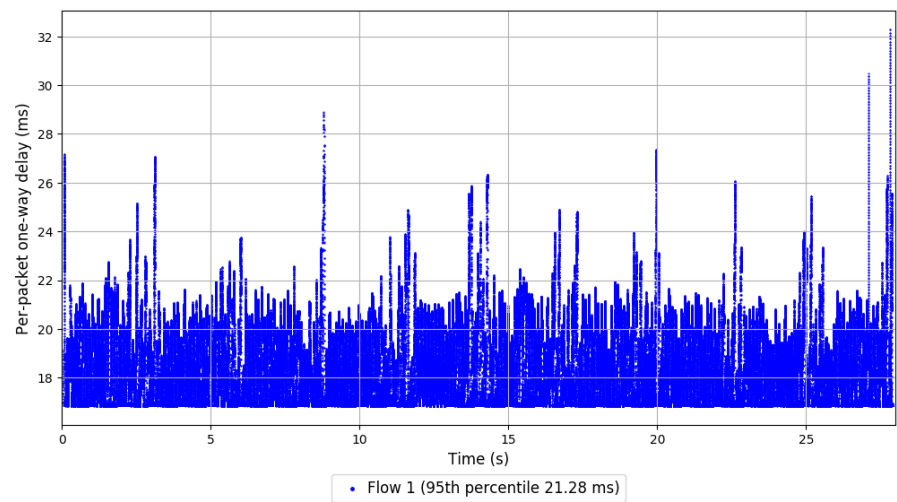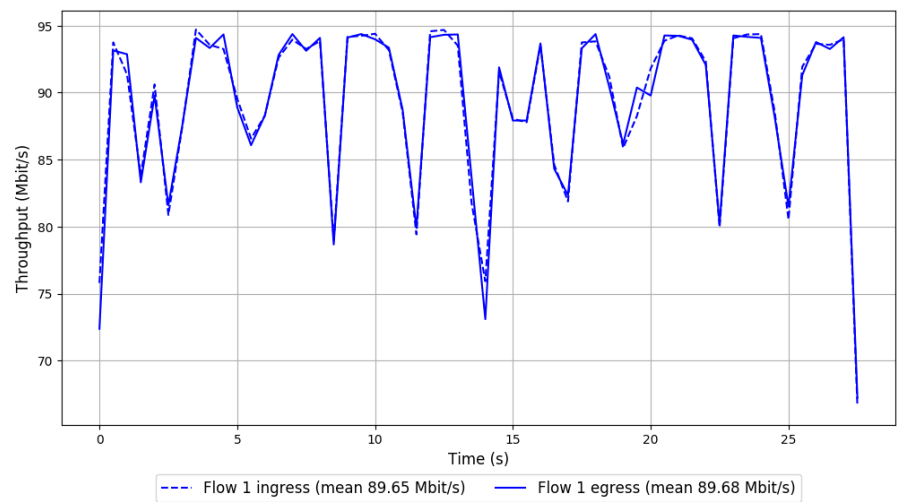
# Run 4: Report of TaoVA-100x — Data Link



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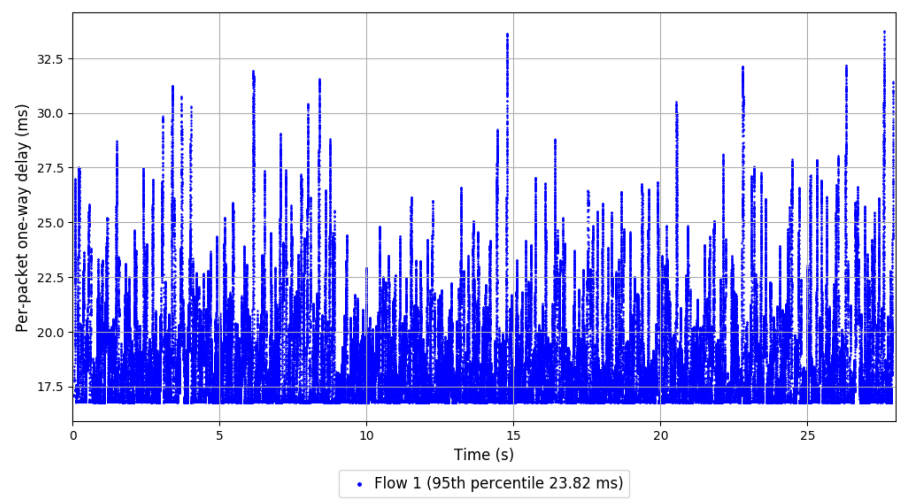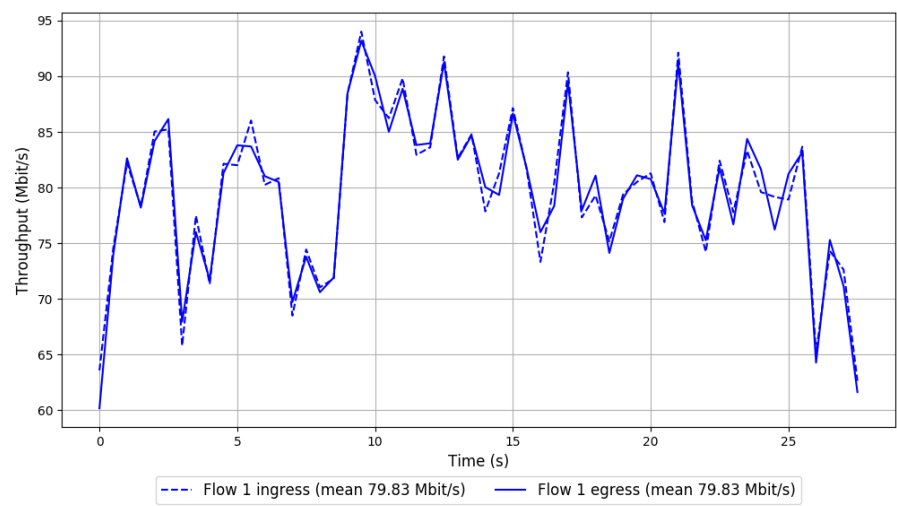


Flow 1 (95th percentile 18.38 ms)

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

Start at: 2017-09-23 02:07:04
End at: 2017-09-23 02:07:34
Local clock offset: -1.846 ms
Remote clock offset: -4.88 ms


# Below is generated by plot.py at 2017-09-23 07:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.68 Mbit/s
95th percentile per-packet one-way delay: 21.281 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 89.68 Mbit/s
95th percentile per-packet one-way delay: 21.281 ms
Loss rate: 0.06%
```

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



Flow 1 ingress (mean 89.65 Mbit/s) ----- Flow 1 egress (mean 89.68 Mbit/s)



• Flow 1 (95th percentile 21.28 ms)

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

Start at: 2017-09-23 02:26:00
End at: 2017-09-23 02:26:30
Local clock offset: -0.813 ms
Remote clock offset: -3.945 ms


# Below is generated by plot.py at 2017-09-23 07:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.83 Mbit/s
95th percentile per-packet one-way delay: 23.816 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 79.83 Mbit/s
95th percentile per-packet one-way delay: 23.816 ms
Loss rate: 0.10%
```
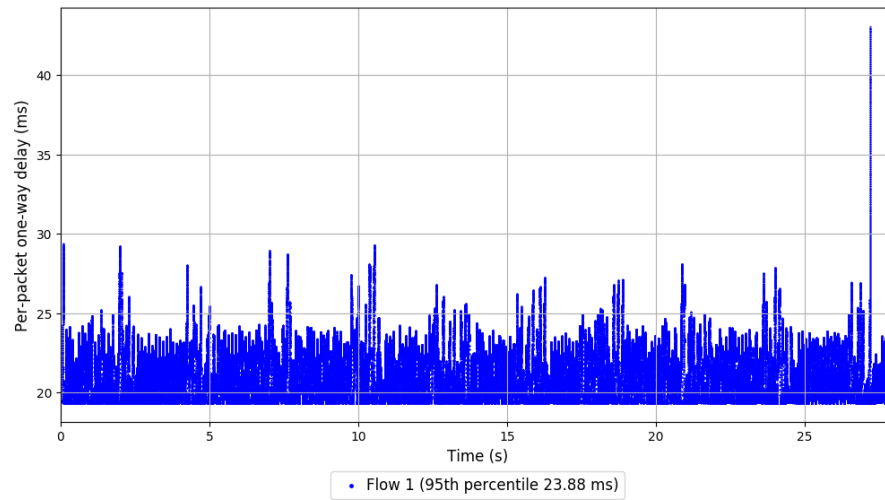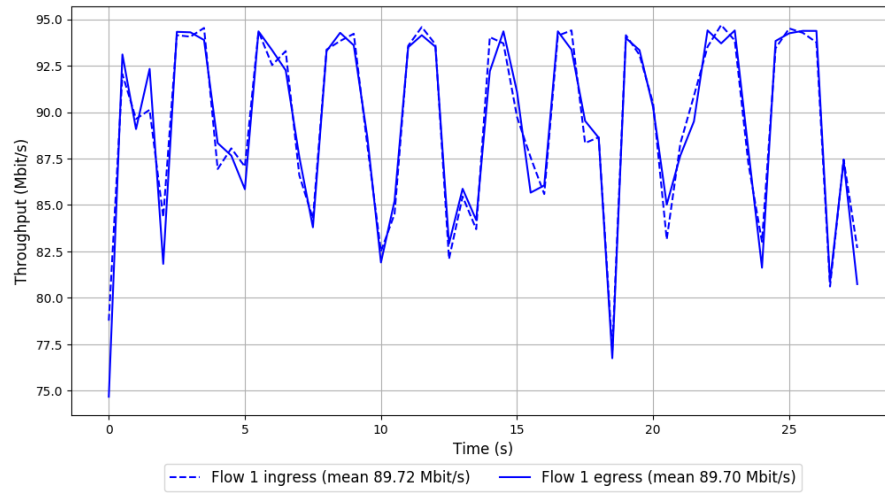
# Run 6: Report of TaoVA-100x — Data Link



Flow 1 ingress (mean 79.83 Mbit/s) — — — Flow 1 egress (mean 79.83 Mbit/s)
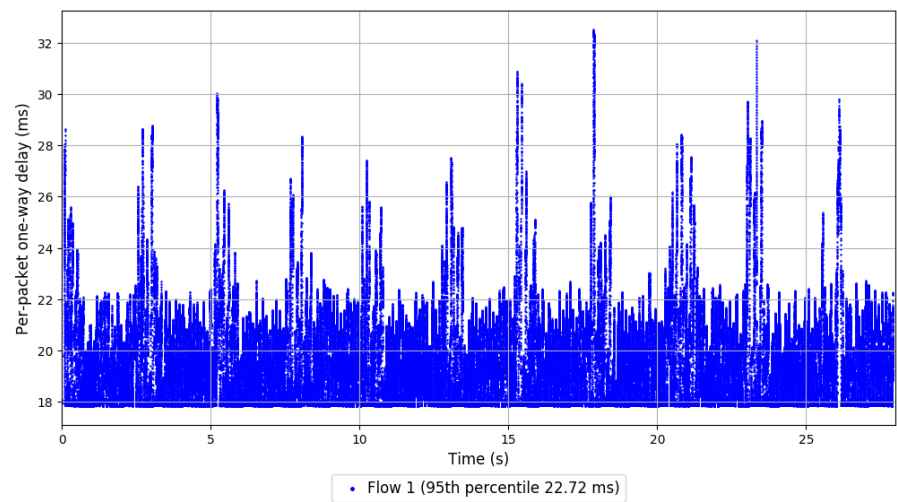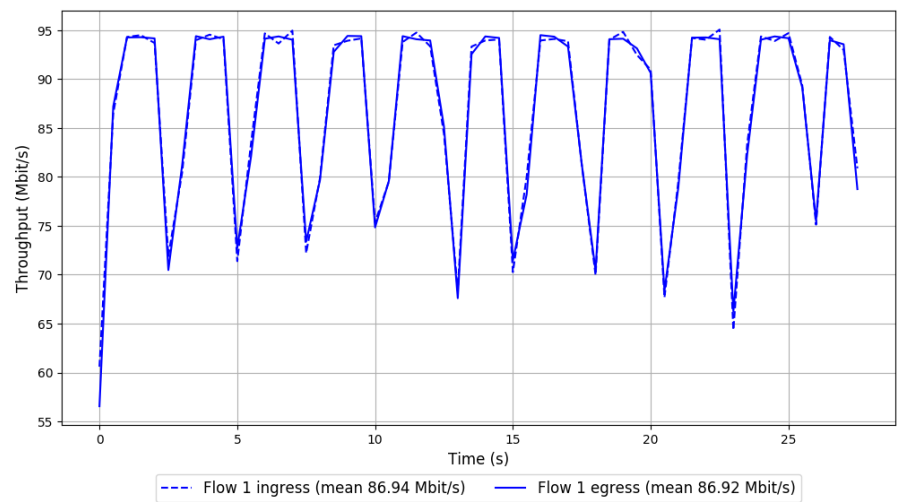


• Flow 1 (95th percentile 23.82 ms)

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

Start at: 2017-09-23 03:17:16
End at: 2017-09-23 03:17:46
Local clock offset: 2.516 ms
Remote clock offset: -3.781 ms


# Below is generated by plot.py at 2017-09-23 07:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 23.877 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 23.877 ms
Loss rate: 0.11%
```
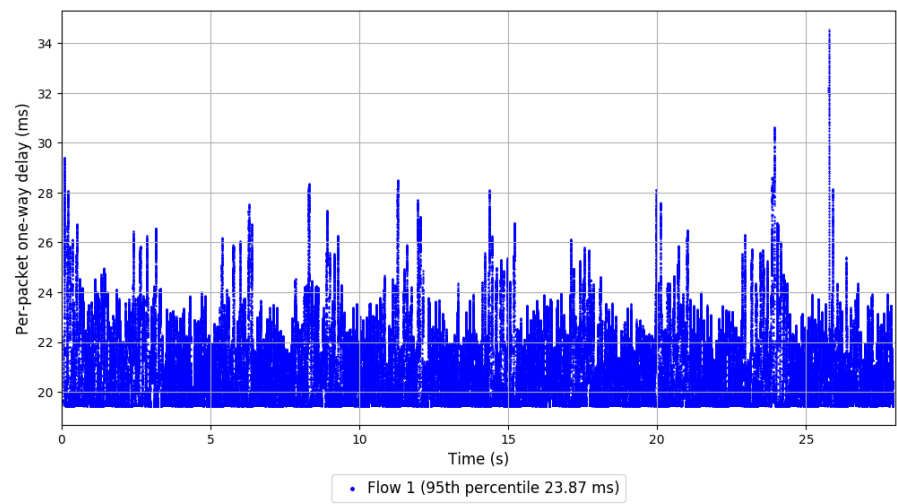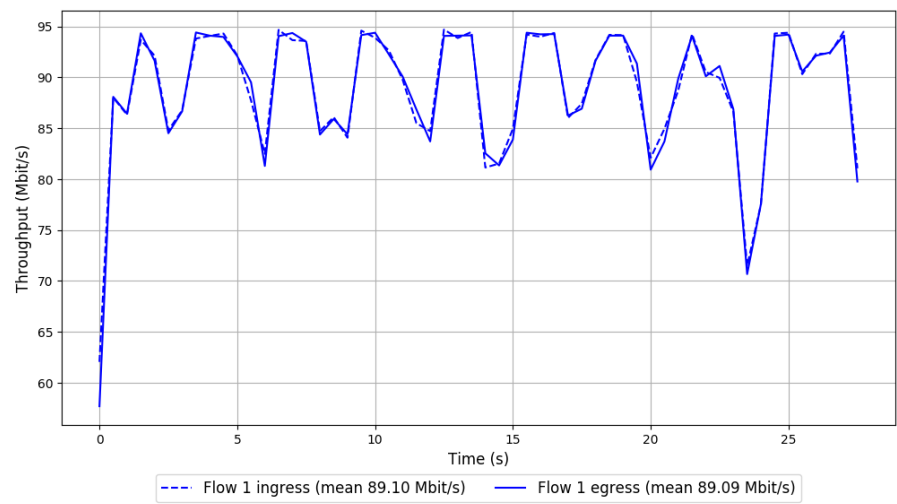
Run 7: Report of TaoVA-100x — Data Link

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

Start at: 2017-09-23 03:37:13
End at: 2017-09-23 03:37:43
Local clock offset: -0.218 ms
Remote clock offset: -4.392 ms


# Below is generated by plot.py at 2017-09-23 07:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.92 Mbit/s
95th percentile per-packet one-way delay: 22.718 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 86.92 Mbit/s
95th percentile per-packet one-way delay: 22.718 ms
Loss rate: 0.11%
```

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



Flow 1 ingress (mean 86.94 Mbit/s) — — — — Flow 1 egress (mean 86.92 Mbit/s)



• Flow 1 (95th percentile 22.72 ms)

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

Start at: 2017-09-23 03:57:30
End at: 2017-09-23 03:58:00
Local clock offset: 0.646 ms
Remote clock offset: -4.923 ms

# Below is generated by plot.py at 2017-09-23 07:35:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 23.872 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 89.09 Mbit/s
95th percentile per-packet one-way delay: 23.872 ms
Loss rate: 0.11%
```

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

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

Start at: 2017-09-23 04:15:26
End at: 2017-09-23 04:15:56
Local clock offset: -0.209 ms
Remote clock offset: -4.581 ms


# Below is generated by plot.py at 2017-09-23 07:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.45 Mbit/s
95th percentile per-packet one-way delay: 22.101 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 90.45 Mbit/s
95th percentile per-packet one-way delay: 22.101 ms
Loss rate: 0.08%
```
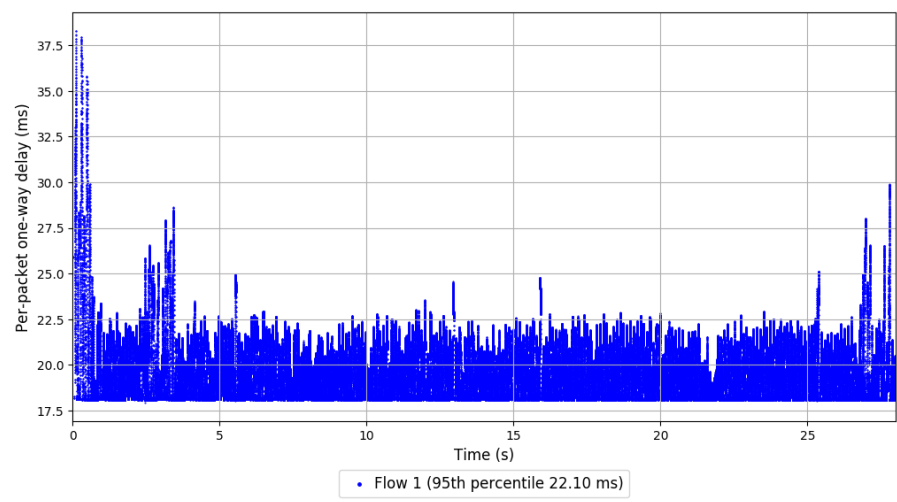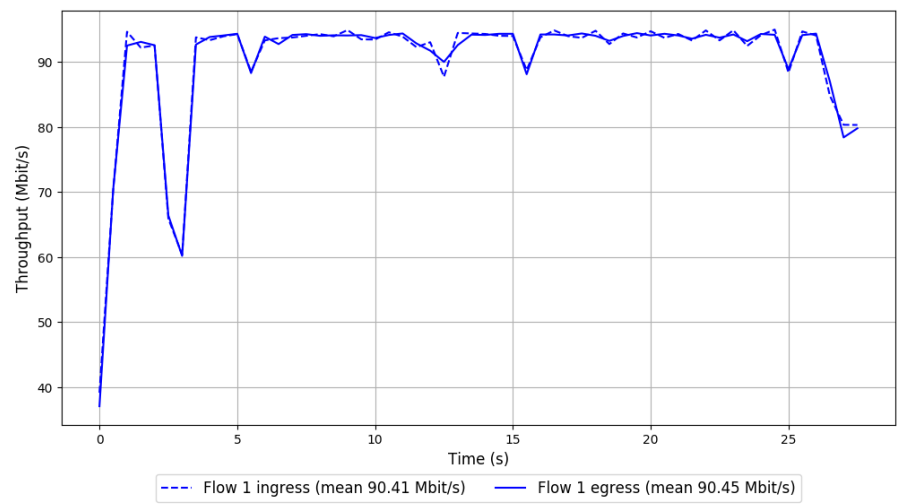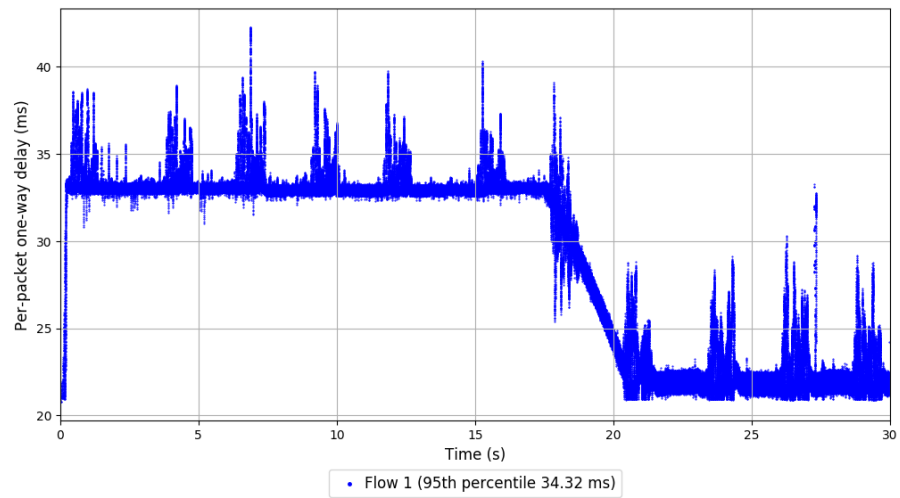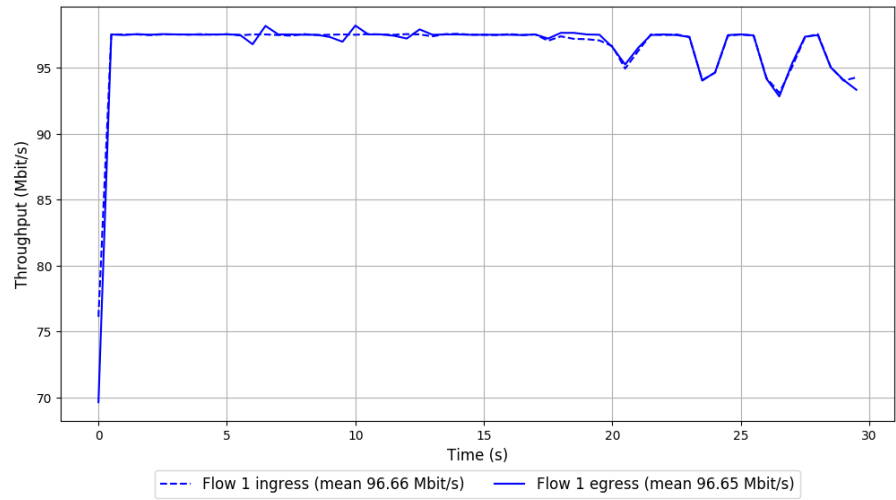
Run 10: Report of TaoVA-100x — Data Link



Flow 1 ingress (mean 90.41 Mbit/s)      Flow 1 egress (mean 90.45 Mbit/s)
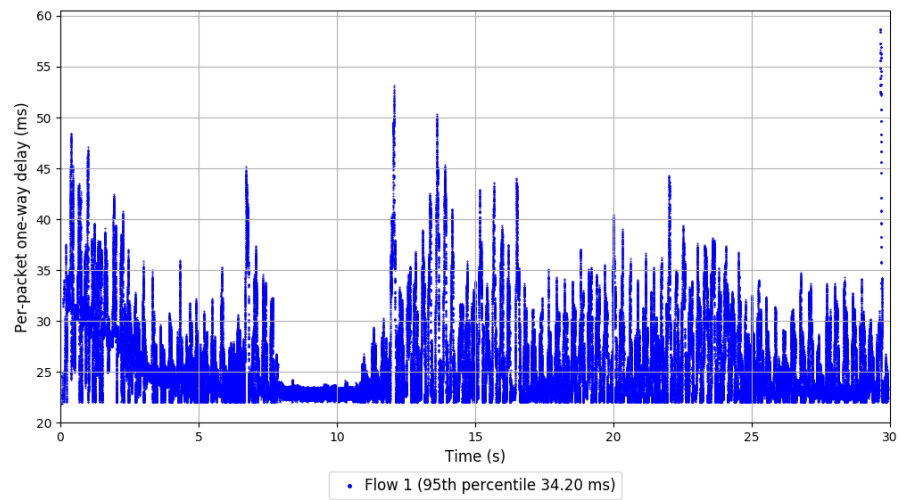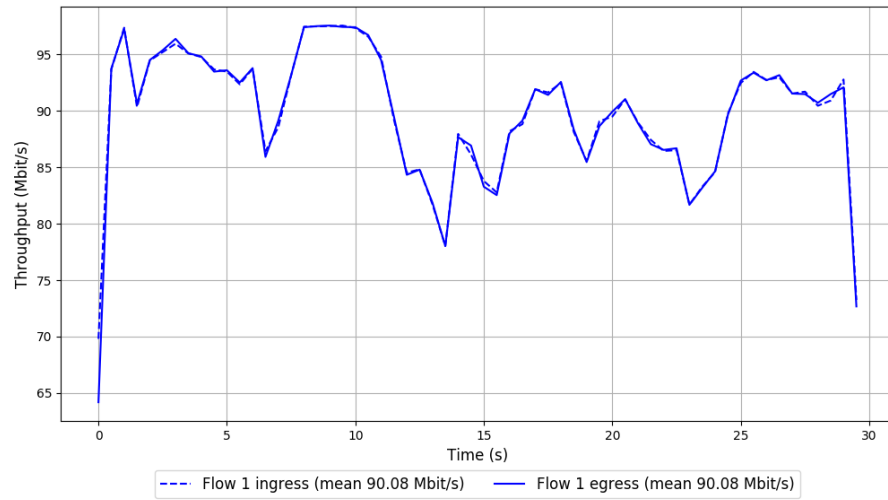


• Flow 1 (95th percentile 22.10 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2017-09-23 00:47:34
End at: 2017-09-23 00:48:04
Local clock offset: 0.725 ms
Remote clock offset: -5.301 ms


# Below is generated by plot.py at 2017-09-23 07:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 34.320 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.65 Mbit/s
95th percentile per-packet one-way delay: 34.320 ms
Loss rate: 0.09%
```
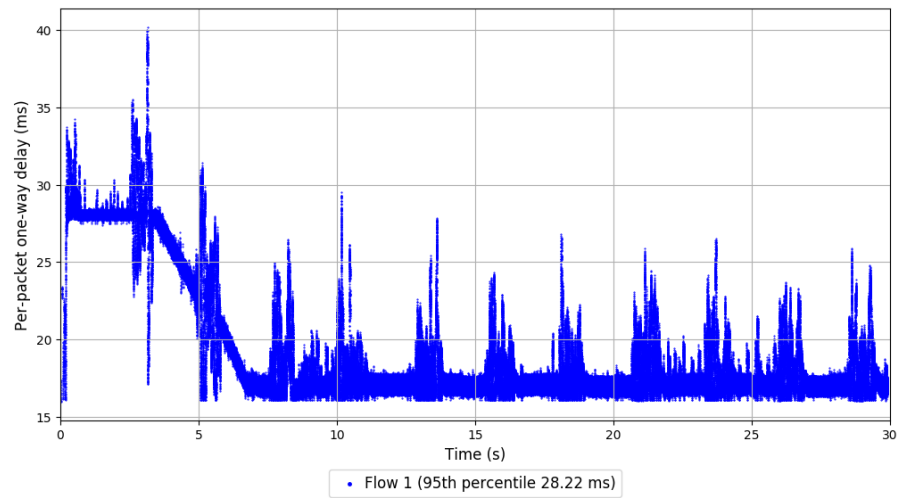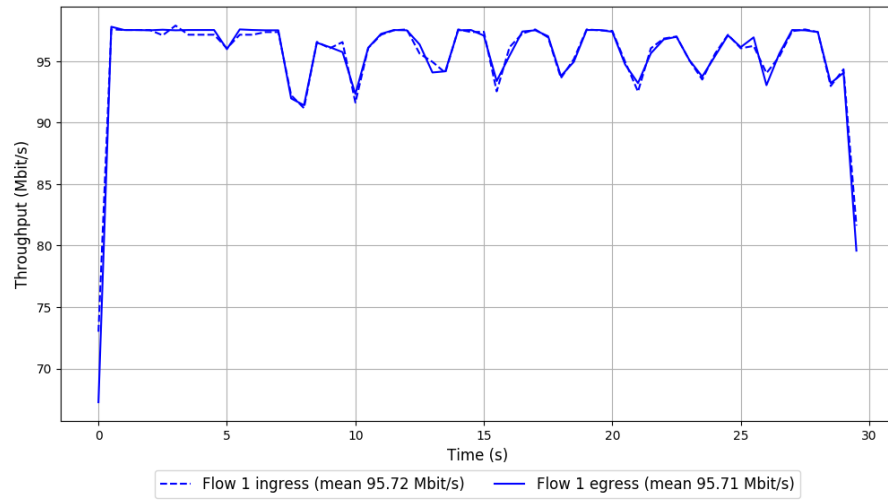
Run 1: Report of TCP Vegas — Data Link



Flow 1 ingress (mean 96.66 Mbit/s) --- Flow 1 egress (mean 96.65 Mbit/s)



Flow 1 (95th percentile 34.32 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2017-09-23 01:05:58
End at: 2017-09-23 01:06:28
Local clock offset: 1.414 ms
Remote clock offset: -6.194 ms


# Below is generated by plot.py at 2017-09-23 07:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.08 Mbit/s
95th percentile per-packet one-way delay: 34.197 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 90.08 Mbit/s
95th percentile per-packet one-way delay: 34.197 ms
Loss rate: 0.10%
```

## Run 2: Report of TCP Vegas — Data Link



Flow 1 ingress (mean 90.08 Mbit/s)    Flow 1 egress (mean 90.08 Mbit/s)

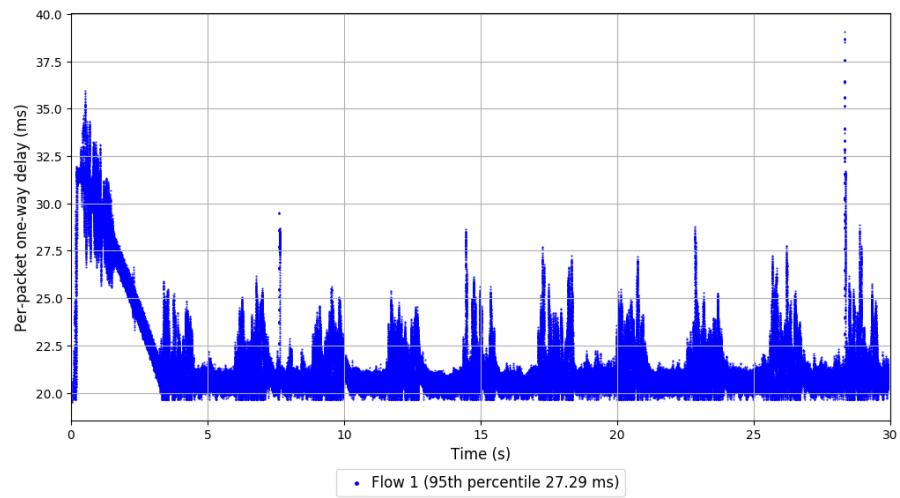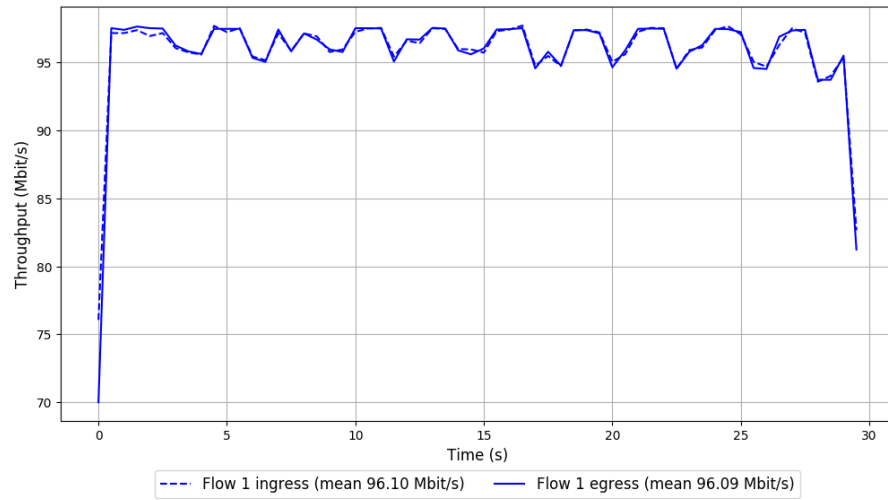

Flow 1 (95th percentile 34.20 ms)

```
Run 3: Statistics of TCP Vegas

Start at: 2017-09-23 01:42:08
End at: 2017-09-23 01:42:38
Local clock offset: -1.802 ms
Remote clock offset: -4.019 ms


# Below is generated by plot.py at 2017-09-23 07:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 28.220 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 28.220 ms
Loss rate: 0.09%
```

## Run 3: Report of TCP Vegas — Data Link



Flow 1 ingress (mean 95.72 Mbit/s) — — — Flow 1 egress (mean 95.71 Mbit/s)
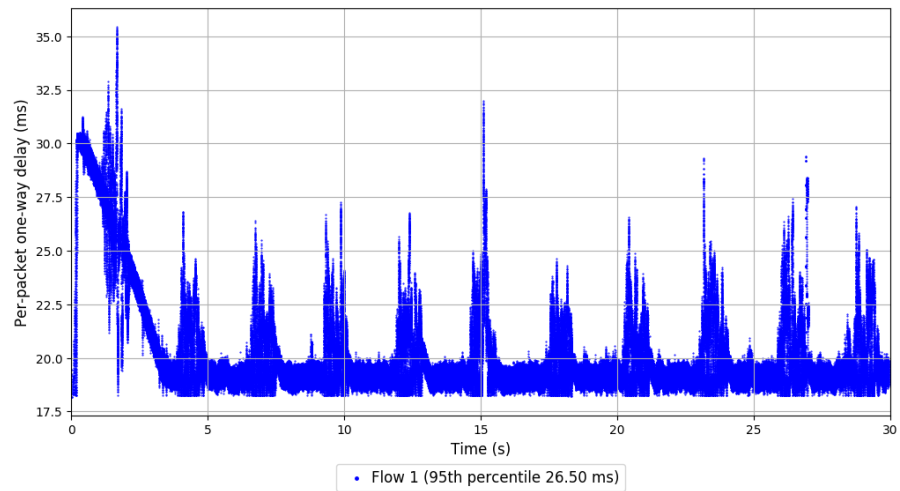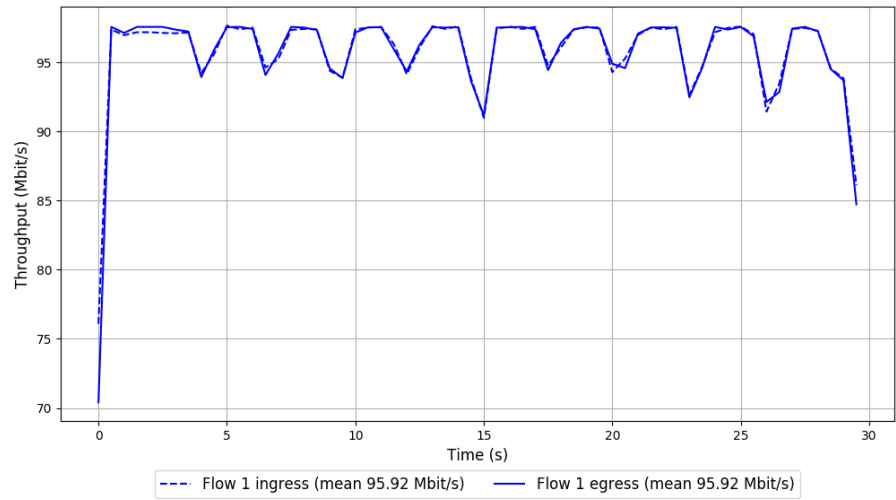


Flow 1 (95th percentile 28.22 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2017-09-23 02:00:21
End at: 2017-09-23 02:00:51
Local clock offset: 0.84 ms
Remote clock offset: -5.041 ms


# Below is generated by plot.py at 2017-09-23 07:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 27.292 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 96.09 Mbit/s
95th percentile per-packet one-way delay: 27.292 ms
Loss rate: 0.09%
```

# Run 4: Report of TCP Vegas — Data Link



Flow 1 ingress (mean 96.10 Mbit/s) --- Flow 1 egress (mean 96.09 Mbit/s)



Flow 1 (95th percentile 27.29 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2017-09-23 02:19:40
End at: 2017-09-23 02:20:10
Local clock offset: -0.414 ms
Remote clock offset: -4.991 ms


# Below is generated by plot.py at 2017-09-23 07:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 26.495 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 26.495 ms
Loss rate: 0.09%
```
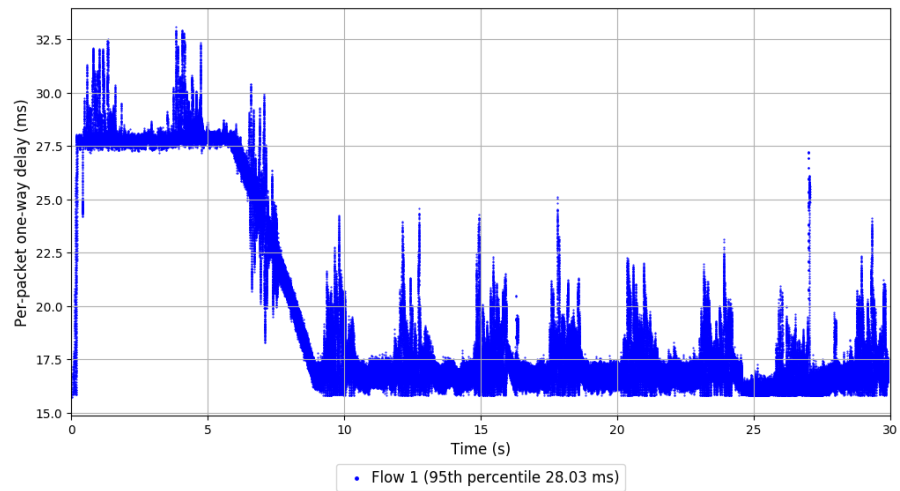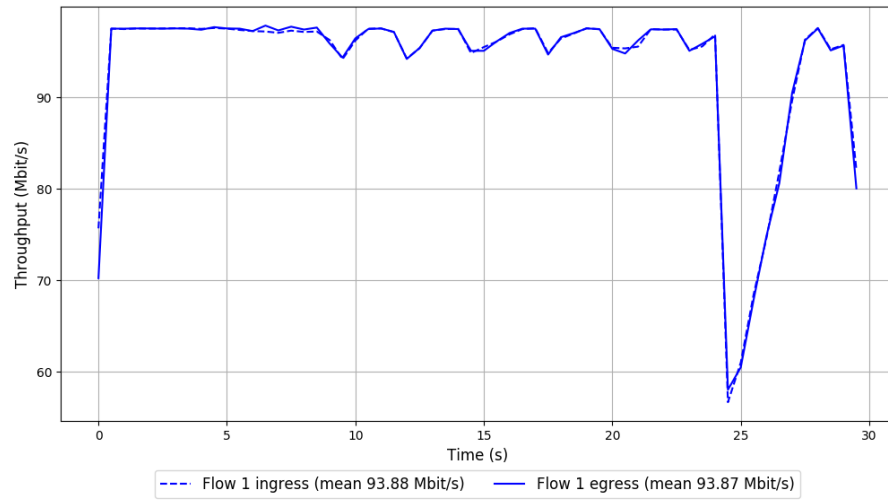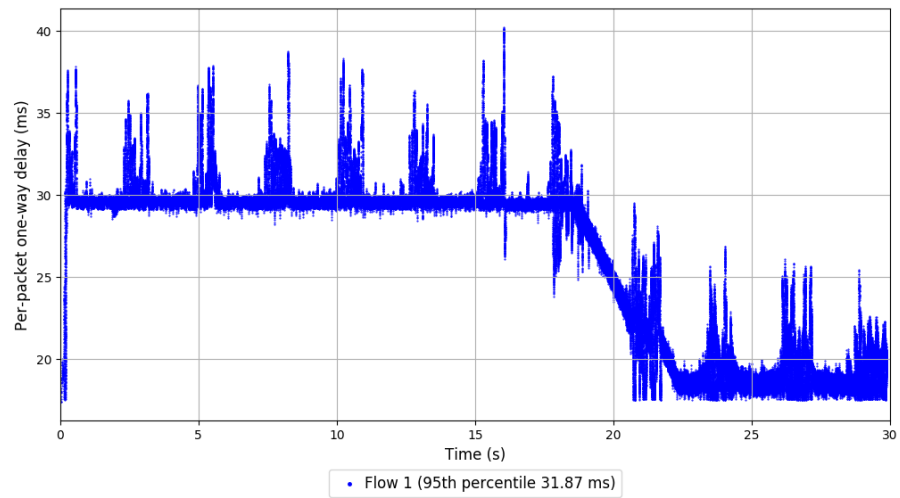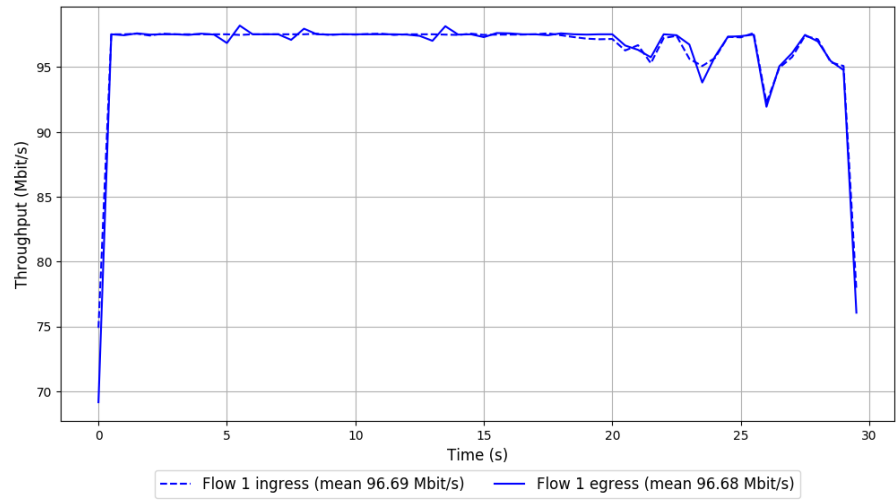
Run 5: Report of TCP Vegas — Data Link



Flow 1 ingress (mean 95.92 Mbit/s)     Flow 1 egress (mean 95.92 Mbit/s)
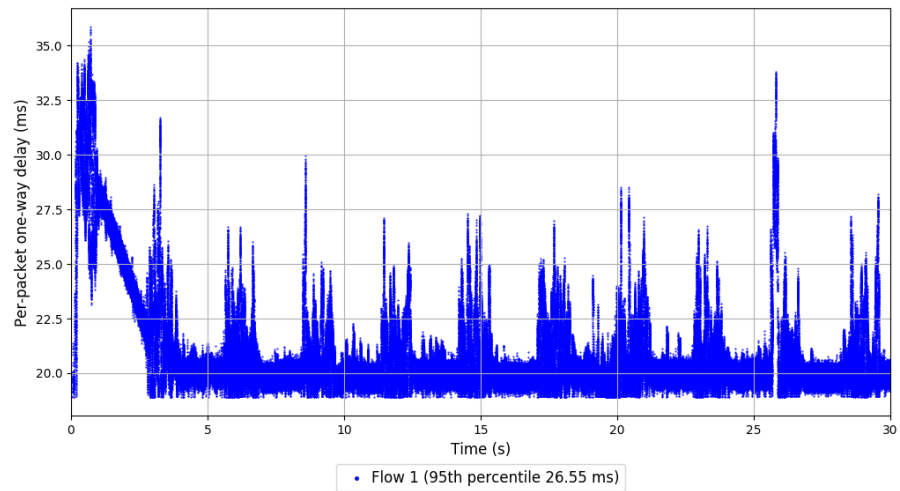


Flow 1 (95th percentile 26.50 ms)

```
Run 6: Statistics of TCP Vegas

Start at: 2017-09-23 03:10:19
End at: 2017-09-23 03:10:49
Local clock offset: -0.481 ms
Remote clock offset: -3.28 ms


# Below is generated by plot.py at 2017-09-23 07:36:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 28.030 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 28.030 ms
Loss rate: 0.10%
```
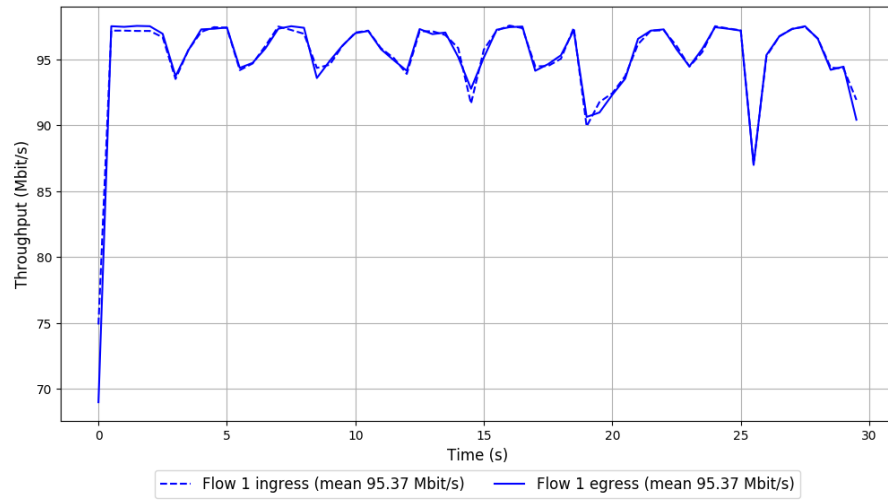
# Run 6: Report of TCP Vegas — Data Link

```
Run 7: Statistics of TCP Vegas

Start at: 2017-09-23 03:29:57
End at: 2017-09-23 03:30:27
Local clock offset: -1.175 ms
Remote clock offset: -5.236 ms


# Below is generated by plot.py at 2017-09-23 07:36:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.68 Mbit/s
95th percentile per-packet one-way delay: 31.870 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.68 Mbit/s
95th percentile per-packet one-way delay: 31.870 ms
Loss rate: 0.10%
```

# Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2017-09-23 03:50:26
End at: 2017-09-23 03:50:56
Local clock offset: 0.281 ms
Remote clock offset: -4.692 ms


# Below is generated by plot.py at 2017-09-23 07:36:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 26.547 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 26.547 ms
Loss rate: 0.10%
```
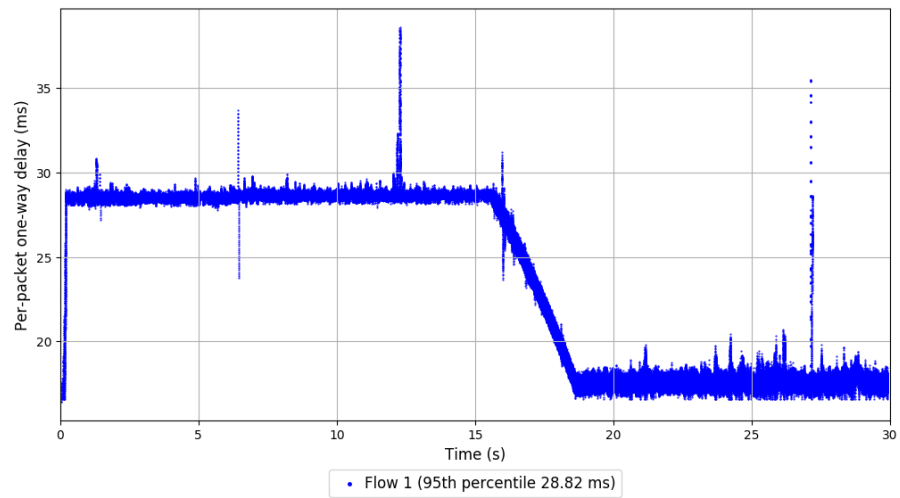
Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2017-09-23 04:09:22
End at: 2017-09-23 04:09:52
Local clock offset: -1.536 ms
Remote clock offset: -4.33 ms


# Below is generated by plot.py at 2017-09-23 07:36:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: 28.825 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 97.01 Mbit/s
95th percentile per-packet one-way delay: 28.825 ms
Loss rate: 0.09%
```
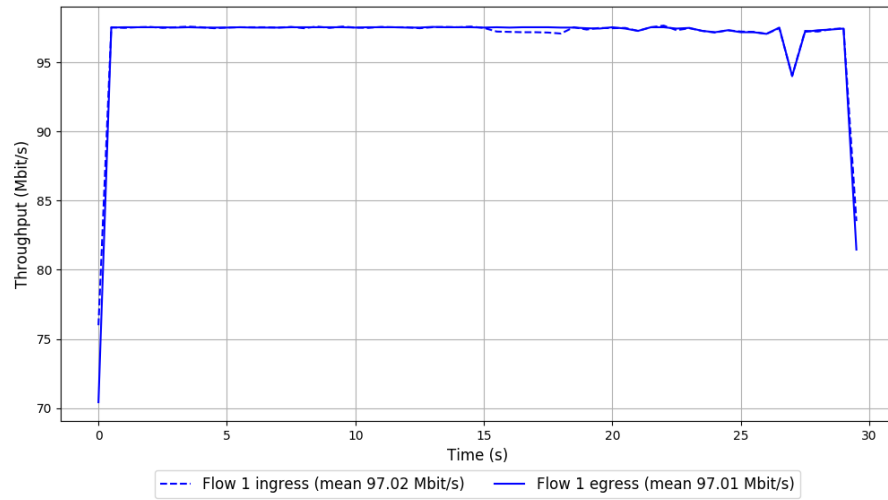
Run 9: Report of TCP Vegas — Data Link

Run 10: Statistics of TCP Vegas

Start at: 2017-09-23 04:26:33
End at: 2017-09-23 04:27:03
Local clock offset: 0.931 ms
Remote clock offset: -4.365 ms
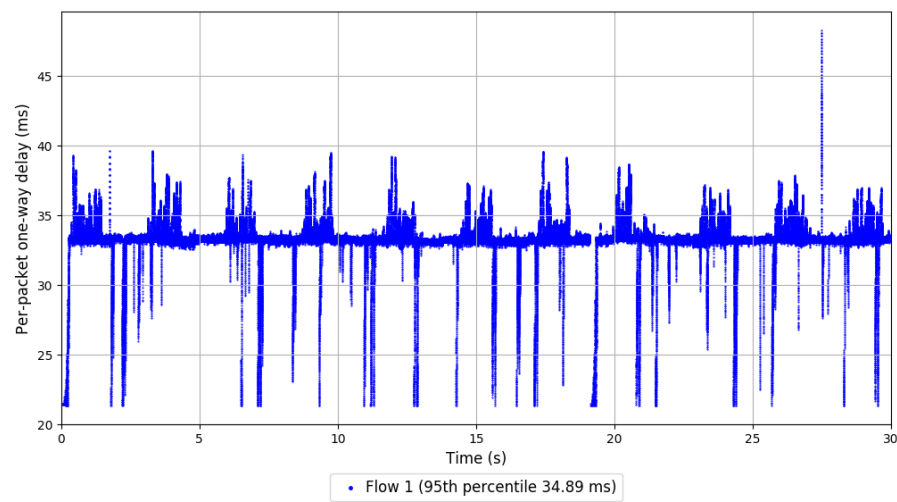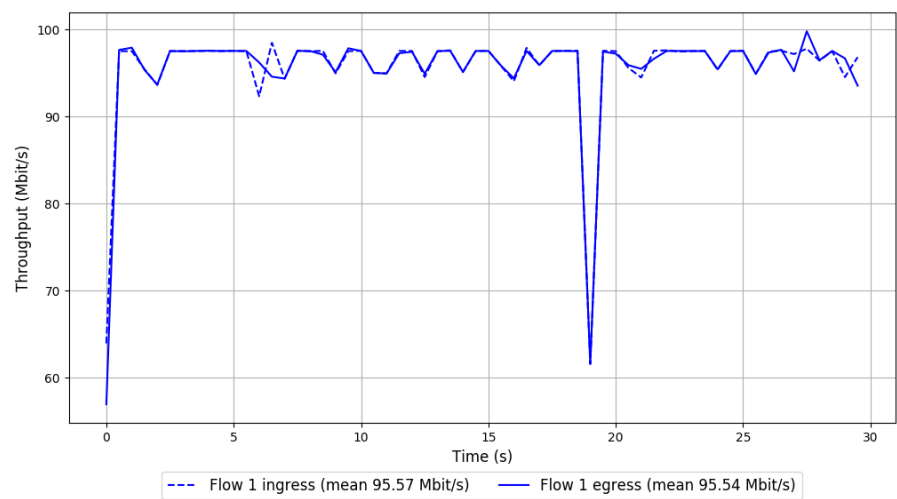
Run 10: Report of TCP Vegas — Data Link
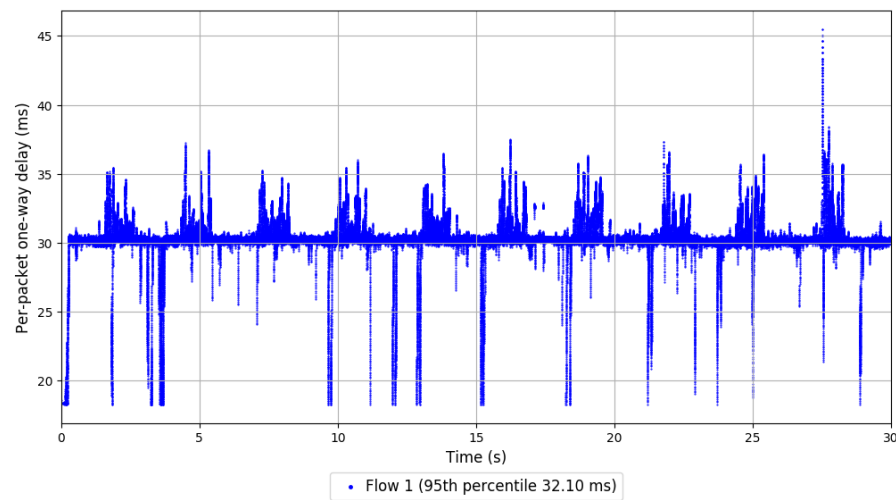


Figure is missing

```
Run 1: Statistics of Verus

Start at: 2017-09-23 00:46:02
End at: 2017-09-23 00:46:32
Local clock offset: 0.987 ms
Remote clock offset: -5.395 ms


# Below is generated by plot.py at 2017-09-23 07:36:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 34.892 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.54 Mbit/s
95th percentile per-packet one-way delay: 34.892 ms
Loss rate: 0.13%
```

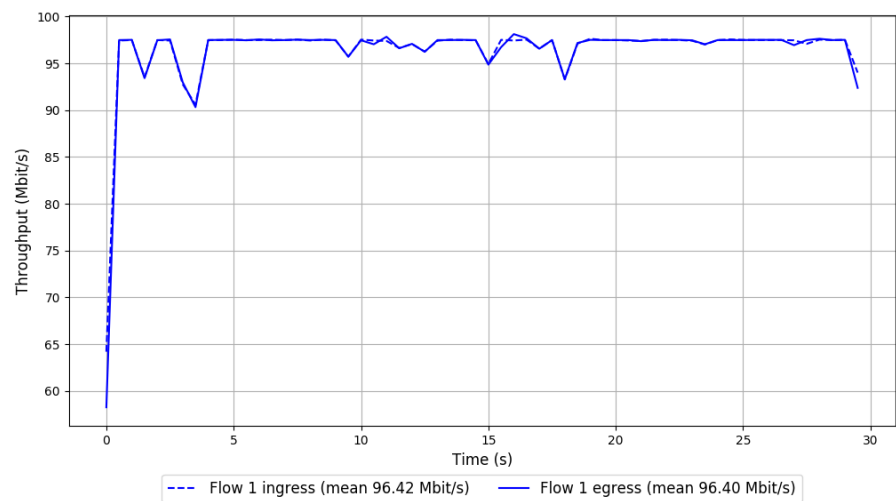Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2017-09-23 01:04:33
End at: 2017-09-23 01:05:03
Local clock offset: -1.745 ms
Remote clock offset: -5.647 ms


# Below is generated by plot.py at 2017-09-23 07:36:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 32.097 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 32.097 ms
Loss rate: 0.13%
```

Run 2: Report of Verus — Data Link



Flow 1 ingress (mean 96.42 Mbit/s)    Flow 1 egress (mean 96.40 Mbit/s)



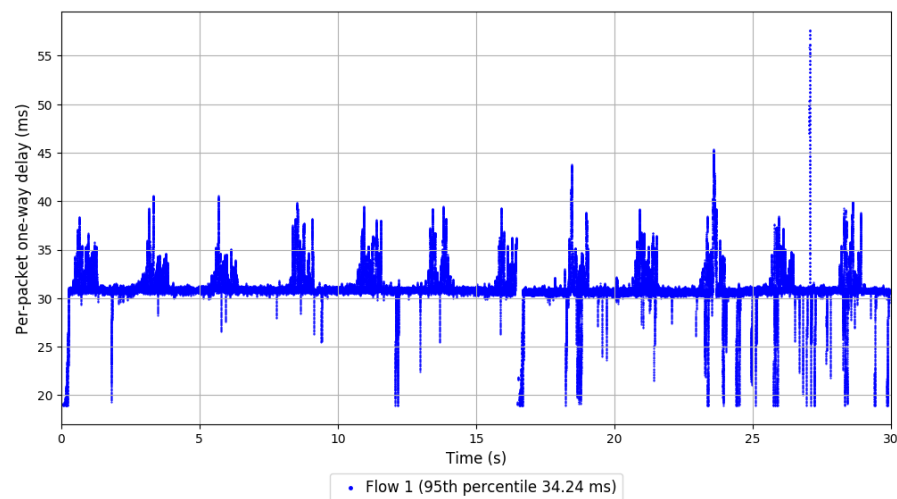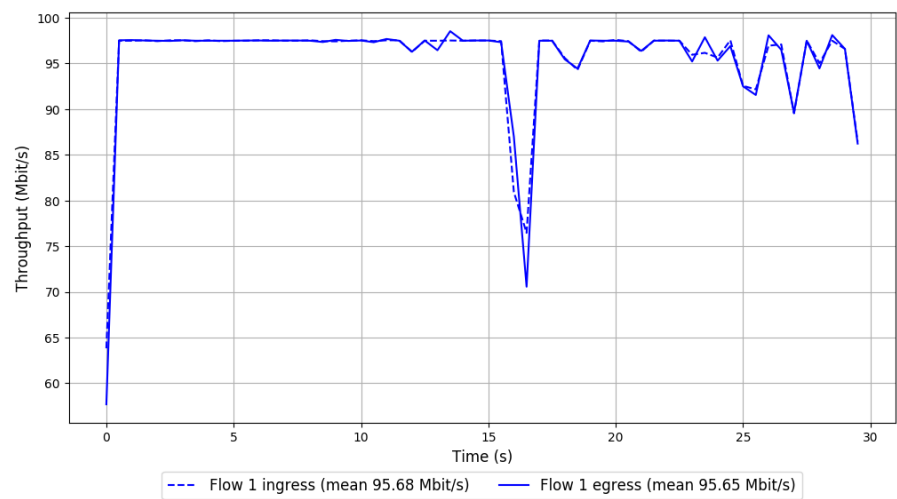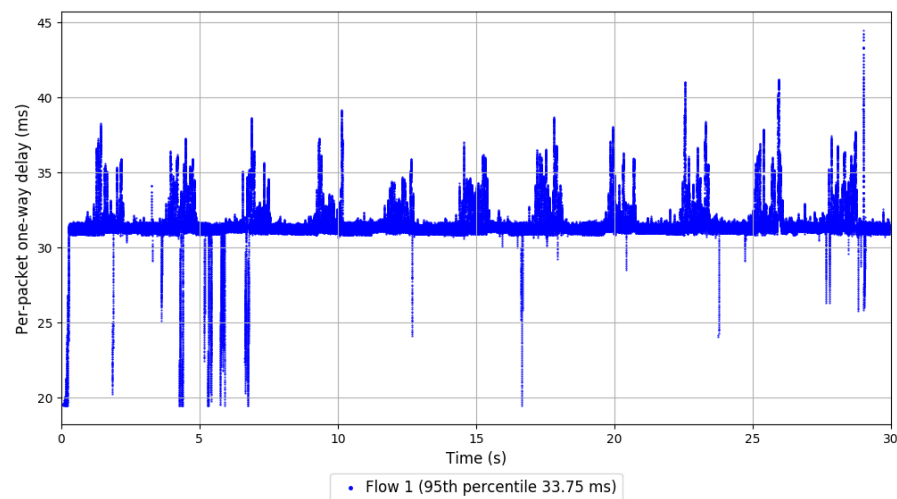• Flow 1 (95th percentile 32.10 ms)

```
Run 3: Statistics of Verus

Start at: 2017-09-23 01:40:39
End at: 2017-09-23 01:41:09
Local clock offset: 0.953 ms
Remote clock offset: -4.056 ms


# Below is generated by plot.py at 2017-09-23 07:36:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 34.236 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 34.236 ms
Loss rate: 0.11%
```

Run 3: Report of Verus — Data Link



Flow 1 ingress (mean 95.68 Mbit/s) --- Flow 1 egress (mean 95.65 Mbit/s)



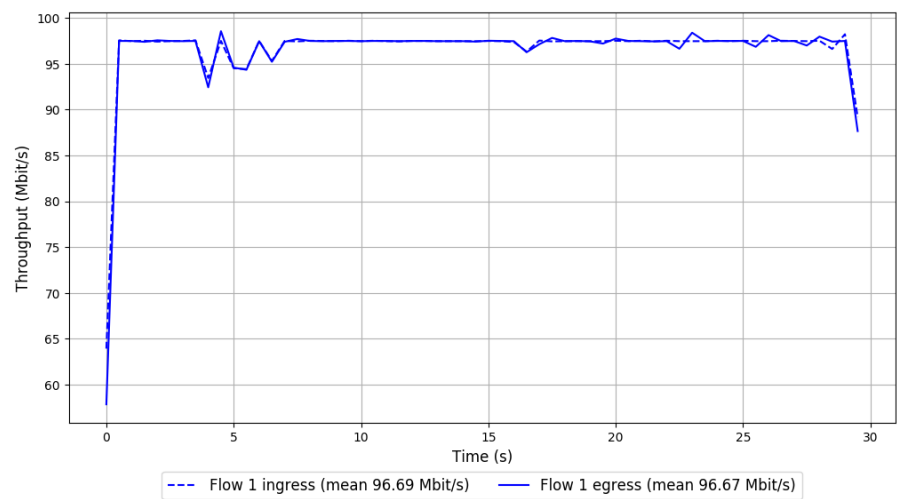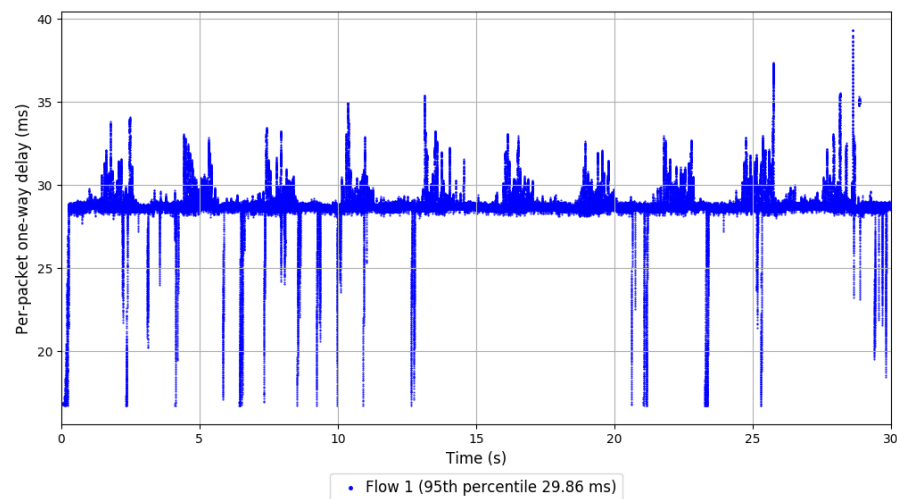• Flow 1 (95th percentile 34.24 ms)

```
Run 4: Statistics of Verus

Start at: 2017-09-23 01:58:53
End at: 2017-09-23 01:59:23
Local clock offset: 0.918 ms
Remote clock offset: -4.794 ms


# Below is generated by plot.py at 2017-09-23 07:37:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 33.754 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 96.67 Mbit/s
95th percentile per-packet one-way delay: 33.754 ms
Loss rate: 0.13%
```

## Run 4: Report of Verus — Data Link



Flow 1 ingress (mean 96.69 Mbit/s) --- Flow 1 egress (mean 96.67 Mbit/s)



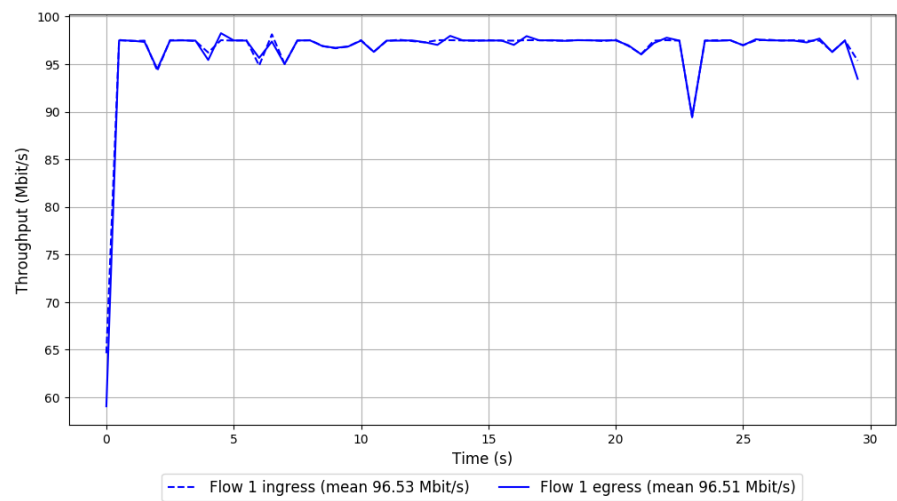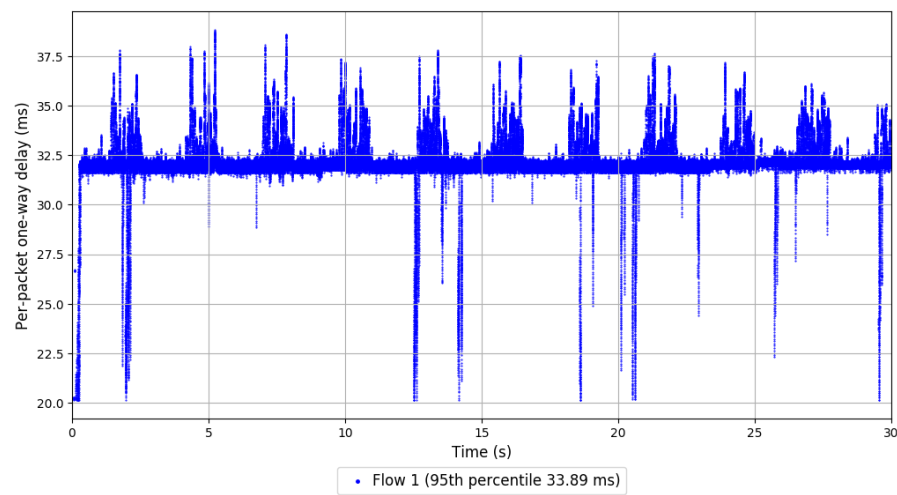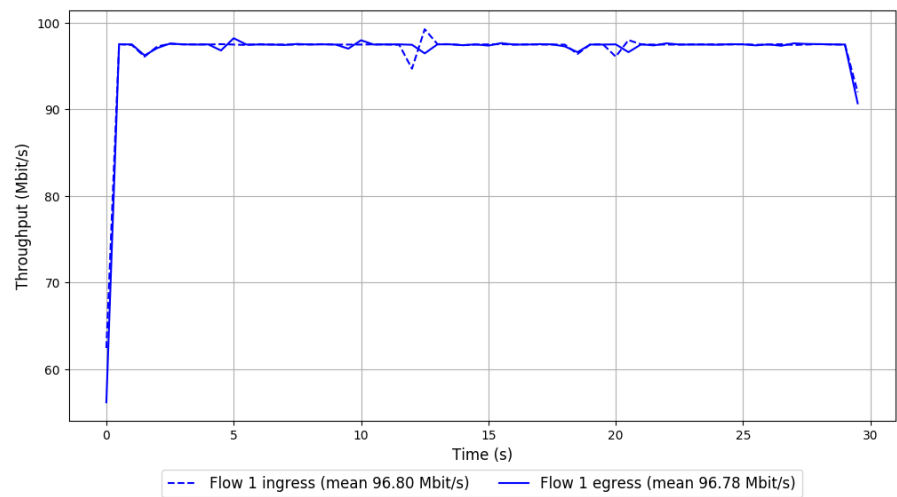• Flow 1 (95th percentile 33.75 ms)

```
Run 5: Statistics of Verus

Start at: 2017-09-23 02:18:16
End at: 2017-09-23 02:18:46
Local clock offset: -1.098 ms
Remote clock offset: -4.125 ms


# Below is generated by plot.py at 2017-09-23 07:37:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 29.860 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 29.860 ms
Loss rate: 0.13%
```
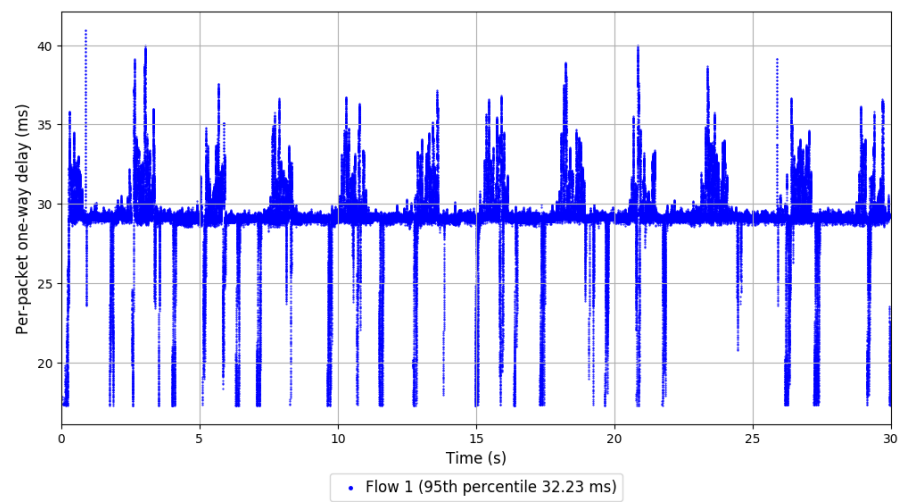
## Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2017-09-23 03:08:48
End at: 2017-09-23 03:09:18
Local clock offset: 1.745 ms
Remote clock offset: -5.325 ms


# Below is generated by plot.py at 2017-09-23 07:38:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 33.891 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 96.78 Mbit/s
95th percentile per-packet one-way delay: 33.891 ms
Loss rate: 0.13%
```

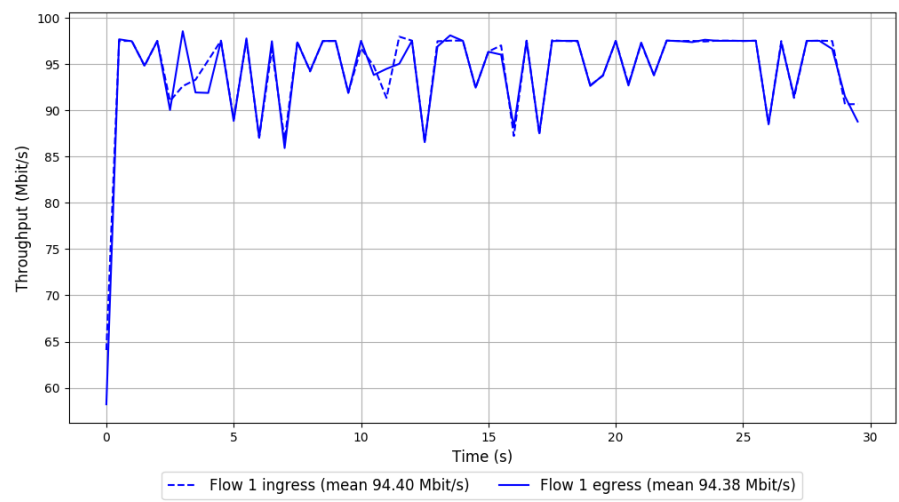Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2017-09-23 03:28:25
End at: 2017-09-23 03:28:55
Local clock offset: -0.362 ms
Remote clock offset: -4.253 ms


# Below is generated by plot.py at 2017-09-23 07:38:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 32.228 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.38 Mbit/s
95th percentile per-packet one-way delay: 32.228 ms
Loss rate: 0.13%
```

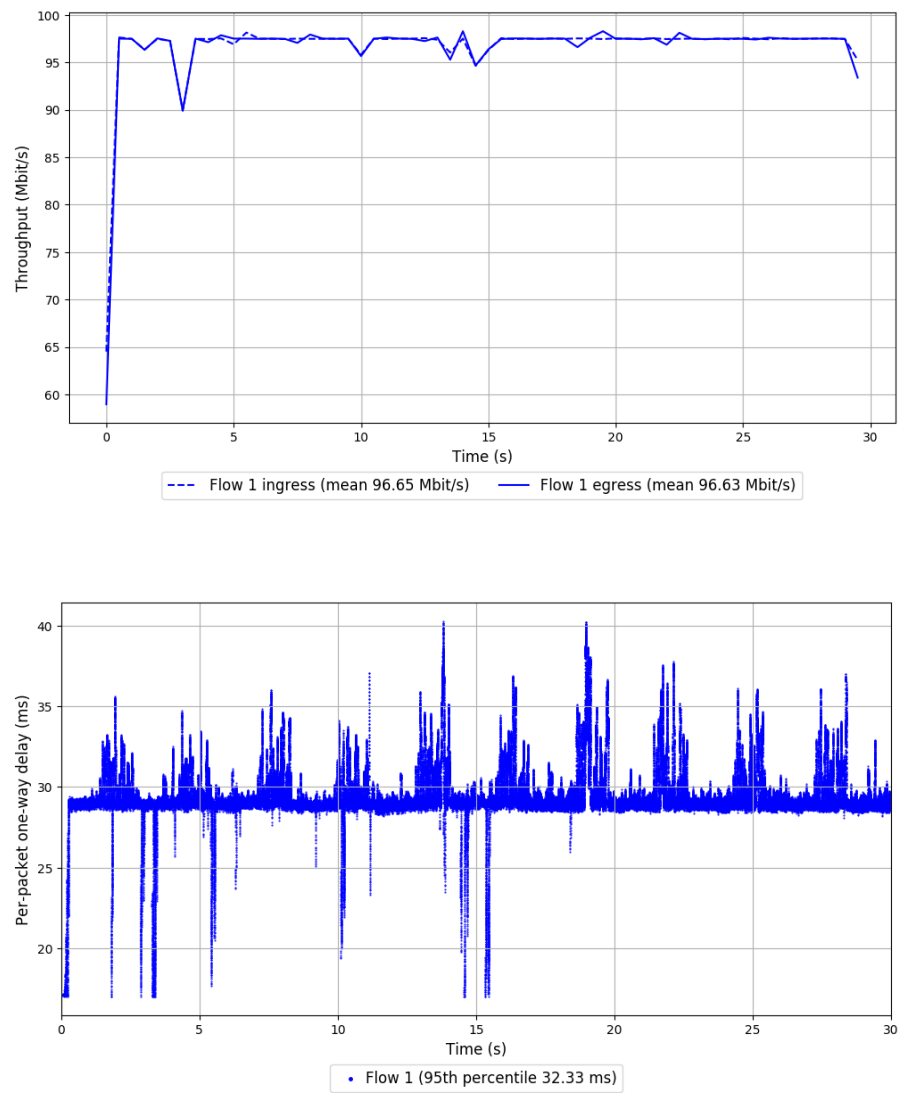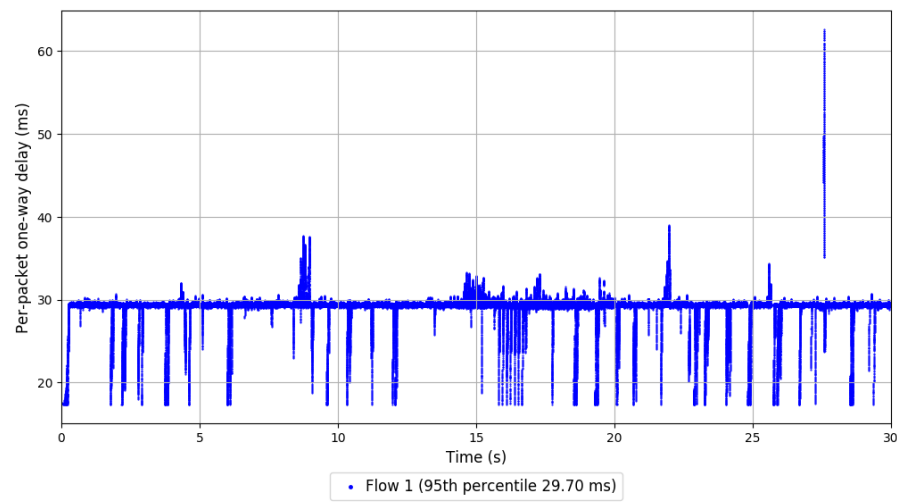Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: 2017-09-23 03:48:33
End at: 2017-09-23 03:49:03
Local clock offset: -1.299 ms
Remote clock offset: -4.443 ms


# Below is generated by plot.py at 2017-09-23 07:38:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 32.330 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 96.63 Mbit/s
95th percentile per-packet one-way delay: 32.330 ms
Loss rate: 0.13%
```

Run 8: Report of Verus — Data Link



Flow 1 ingress (mean 96.65 Mbit/s)    Flow 1 egress (mean 96.63 Mbit/s)



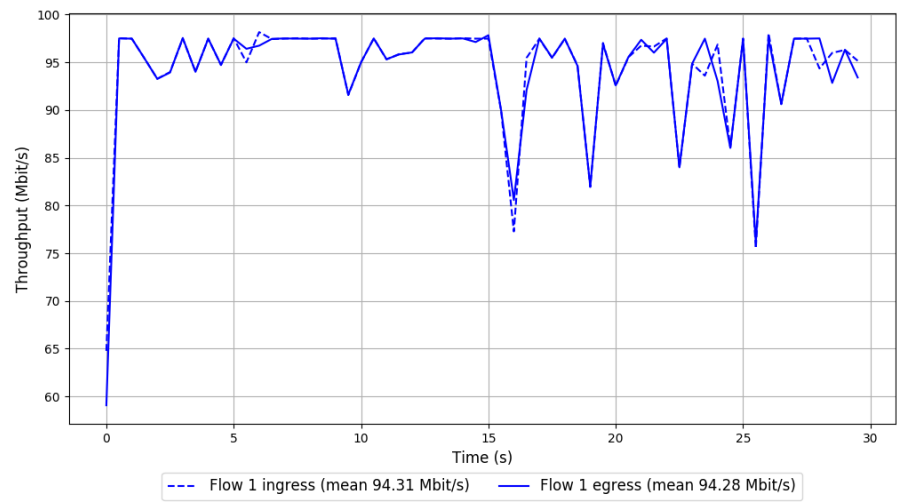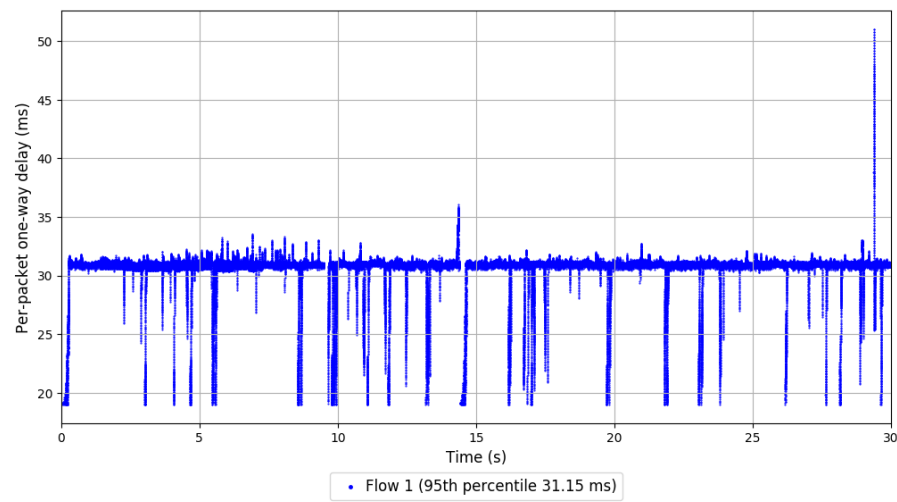• Flow 1 (95th percentile 32.33 ms)

```
Run 9: Statistics of Verus

Start at: 2017-09-23 04:08:05
End at: 2017-09-23 04:08:35
Local clock offset: -1.548 ms
Remote clock offset: -5.105 ms


# Below is generated by plot.py at 2017-09-23 07:38:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 29.701 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 29.701 ms
Loss rate: 0.13%
```

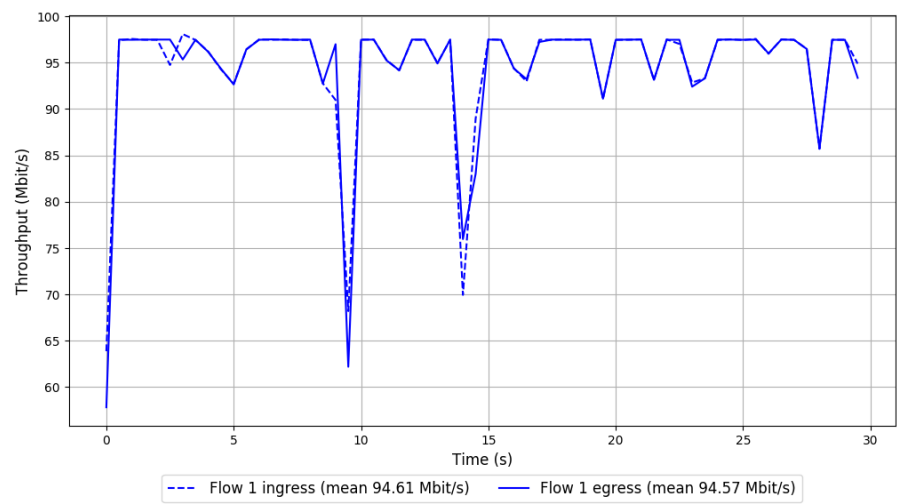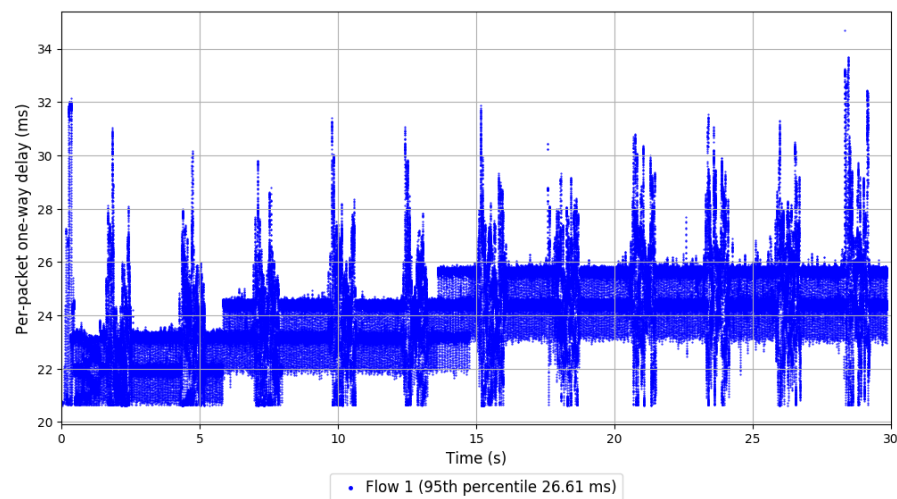# Run 9: Report of Verus — Data Link





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```
Run 10: Statistics of Verus

Start at: 2017-09-23 04:25:18
End at: 2017-09-23 04:25:48
Local clock offset: 0.994 ms
Remote clock offset: -4.406 ms


# Below is generated by plot.py at 2017-09-23 07:38:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 31.149 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 31.149 ms
Loss rate: 0.13%
```

## Run 10: Report of Verus — Data Link



Flow 1 ingress (mean 94.61 Mbit/s)    Flow 1 egress (mean 94.57 Mbit/s)



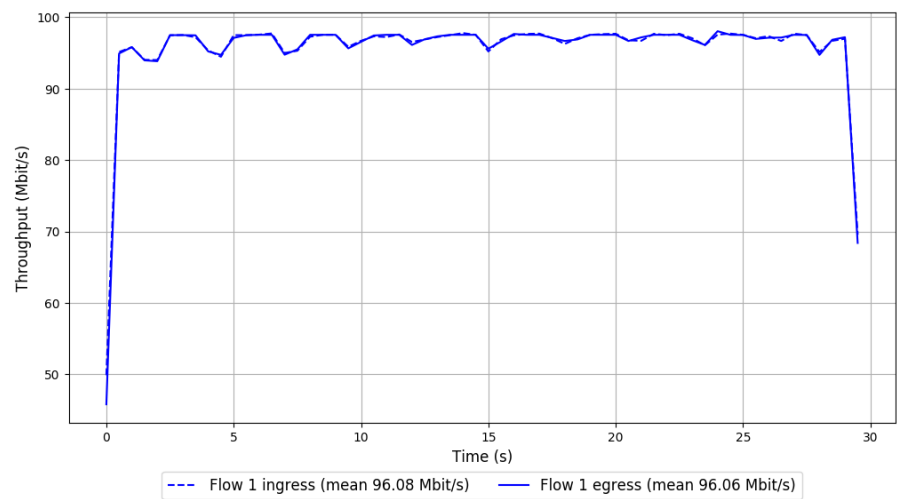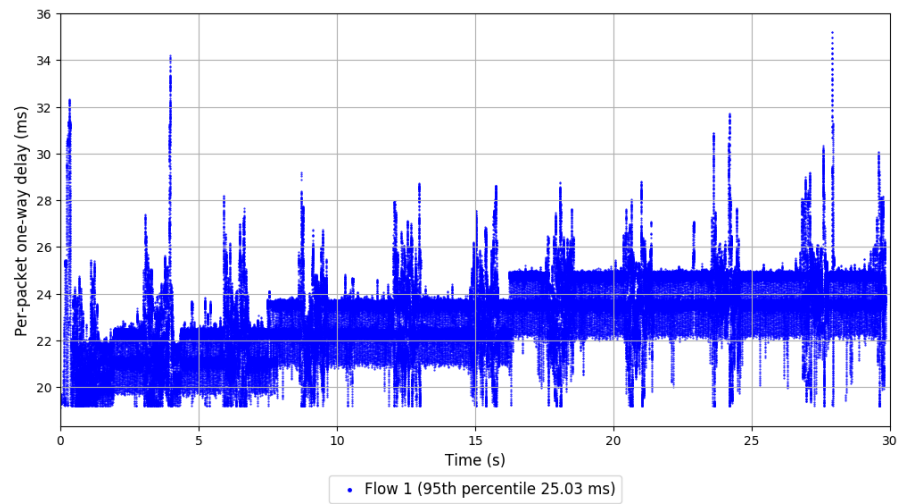Flow 1 (95th percentile 31.15 ms)

```
Run 1: Statistics of Indigo

Start at: 2017-09-23 00:33:02
End at: 2017-09-23 00:33:32
Local clock offset: 0.054 ms
Remote clock offset: -5.43 ms


# Below is generated by plot.py at 2017-09-23 07:38:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 26.610 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 26.610 ms
Loss rate: 0.10%
```

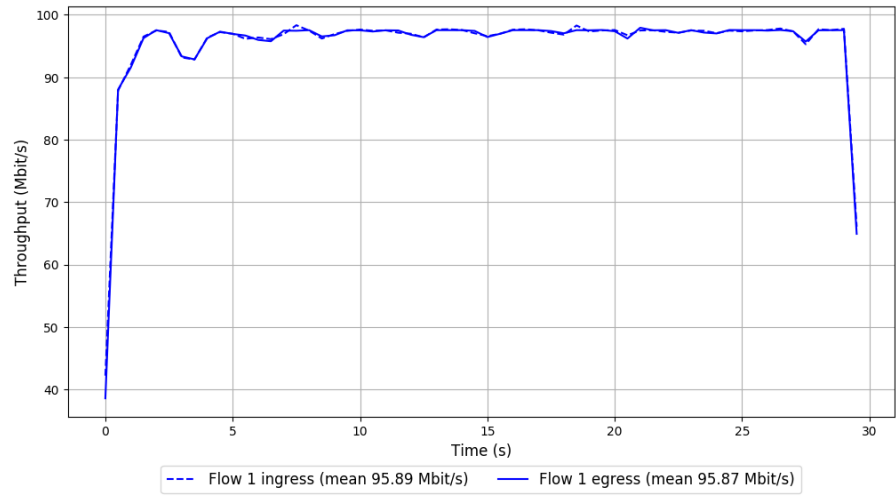Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2017-09-23 00:51:19
End at: 2017-09-23 00:51:49
Local clock offset: -0.837 ms
Remote clock offset: -5.217 ms


# Below is generated by plot.py at 2017-09-23 07:38:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 25.034 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 25.034 ms
Loss rate: 0.10%
```

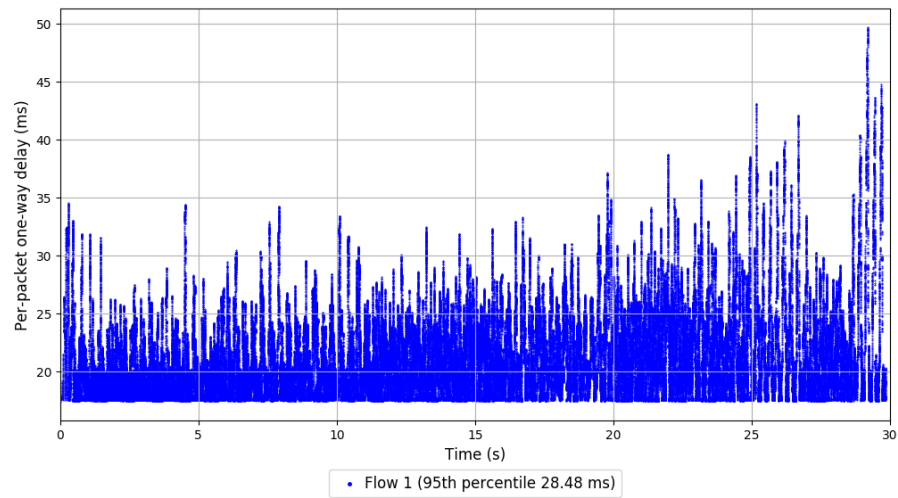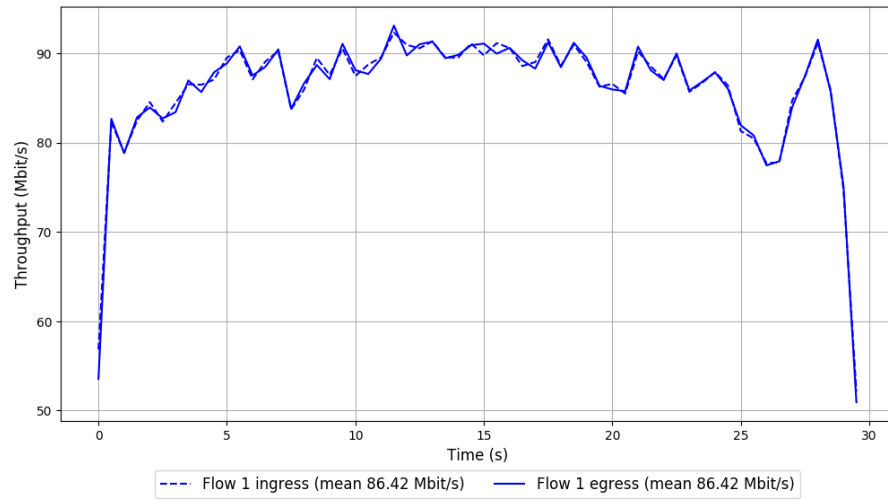Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2017-09-23 01:16:28
End at: 2017-09-23 01:16:58
Local clock offset: -1.332 ms
Remote clock offset: -4.543 ms


# Below is generated by plot.py at 2017-09-23 07:38:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 28.479 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 86.42 Mbit/s
95th percentile per-packet one-way delay: 28.479 ms
Loss rate: 0.09%
```

Run 3: Report of Indigo — Data Link



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



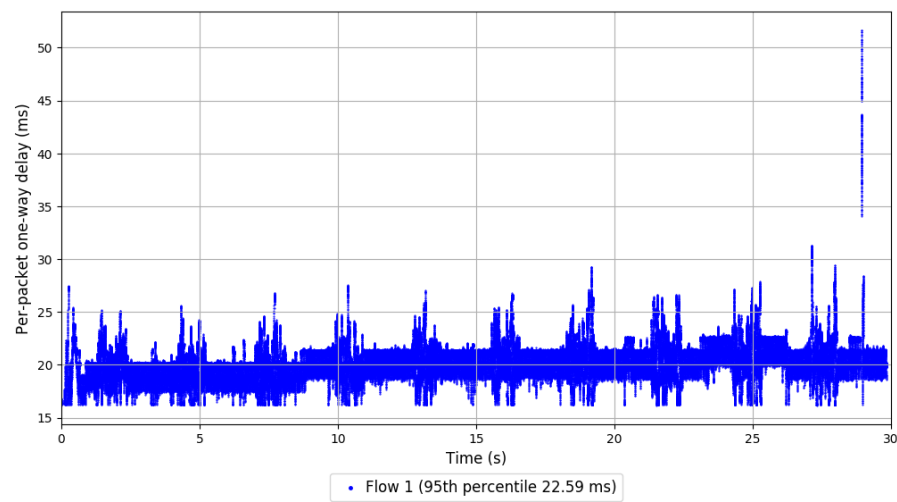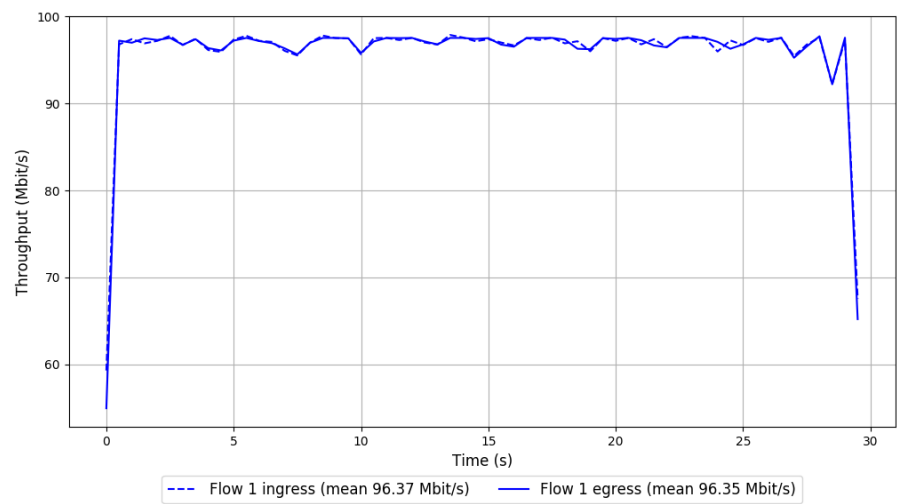Flow 1 (95th percentile 28.48 ms)

```
Run 4: Statistics of Indigo

Start at: 2017-09-23 01:46:10
End at: 2017-09-23 01:46:40
Local clock offset: -0.912 ms
Remote clock offset: -3.469 ms

# Below is generated by plot.py at 2017-09-23 07:39:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 22.586 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 22.586 ms
Loss rate: 0.11%
```

Run 4: Report of Indigo — Data Link



Flow 1 ingress (mean 96.37 Mbit/s) —— Flow 1 egress (mean 96.35 Mbit/s)



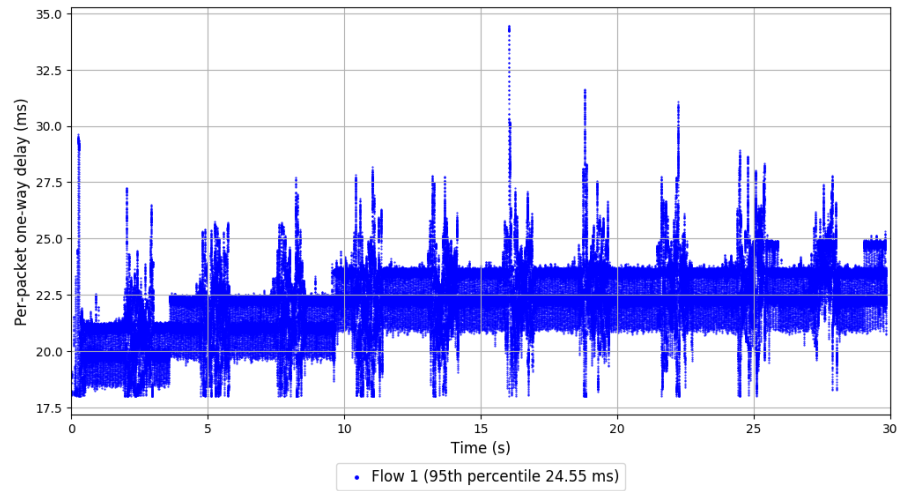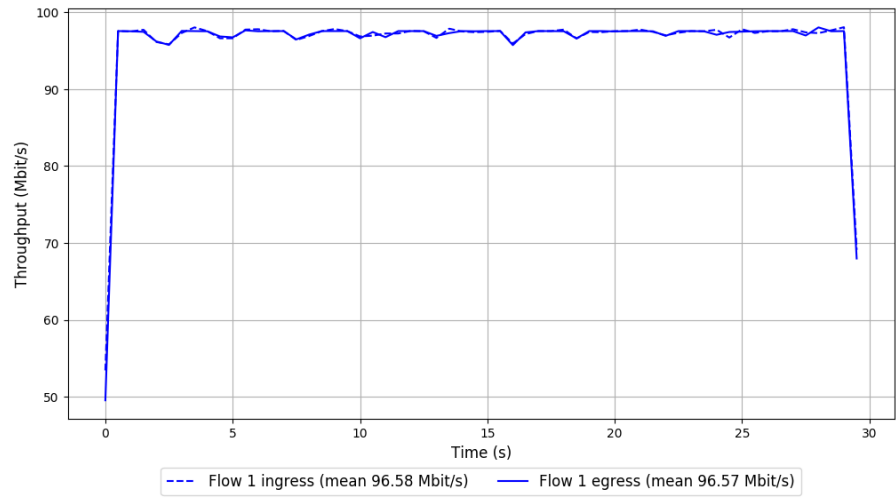• Flow 1 (95th percentile 22.59 ms)

```
Run 5: Statistics of Indigo

Start at: 2017-09-23 02:04:33
End at: 2017-09-23 02:05:03
Local clock offset: -1.329 ms
Remote clock offset: -5.457 ms


# Below is generated by plot.py at 2017-09-23 07:39:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 24.553 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 96.57 Mbit/s
95th percentile per-packet one-way delay: 24.553 ms
Loss rate: 0.10%
```

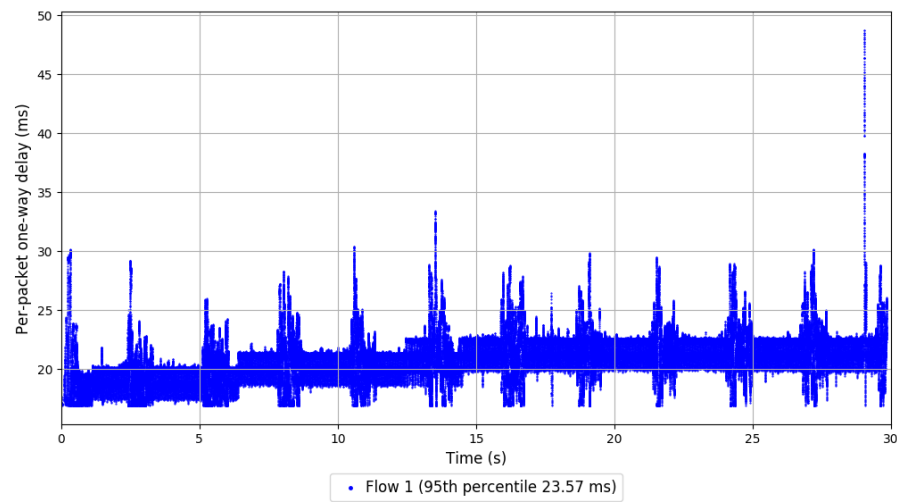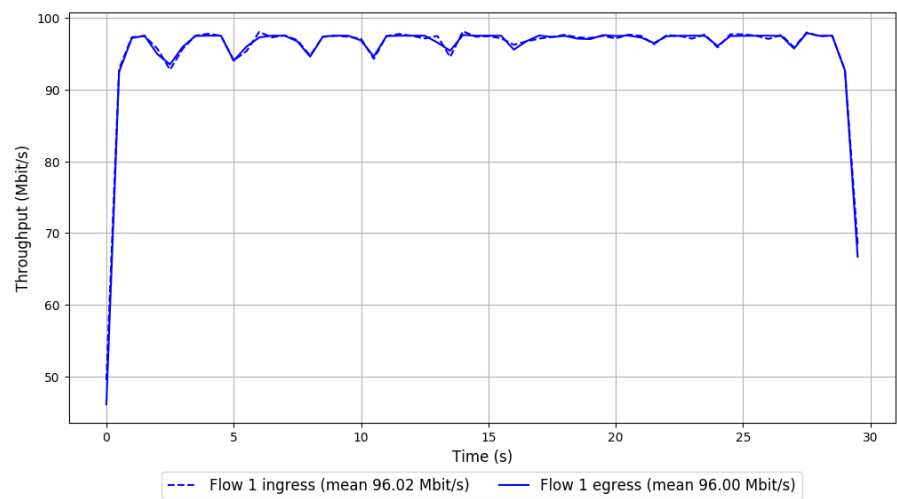## Run 5: Report of Indigo — Data Link

```
Run 6: Statistics of Indigo

Start at: 2017-09-23 02:23:28
End at: 2017-09-23 02:23:58
Local clock offset: -1.248 ms
Remote clock offset: -4.501 ms


# Below is generated by plot.py at 2017-09-23 07:39:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 23.568 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.00 Mbit/s
95th percentile per-packet one-way delay: 23.568 ms
Loss rate: 0.11%
```

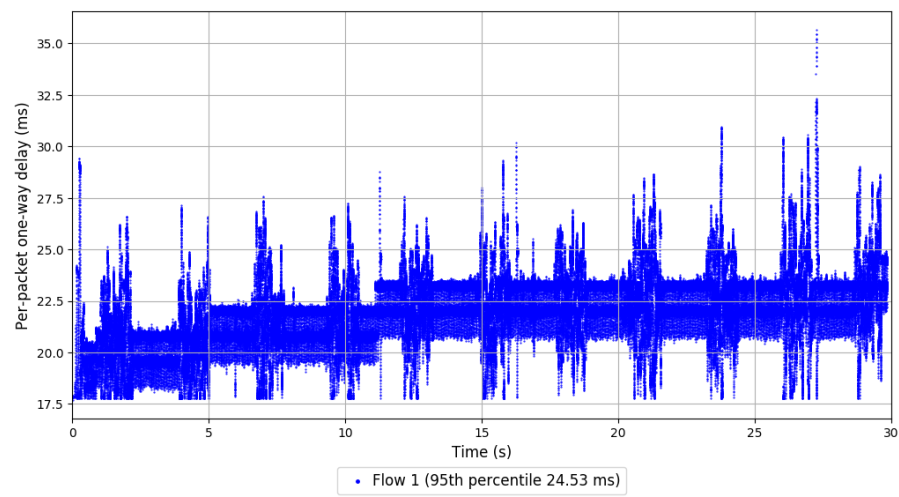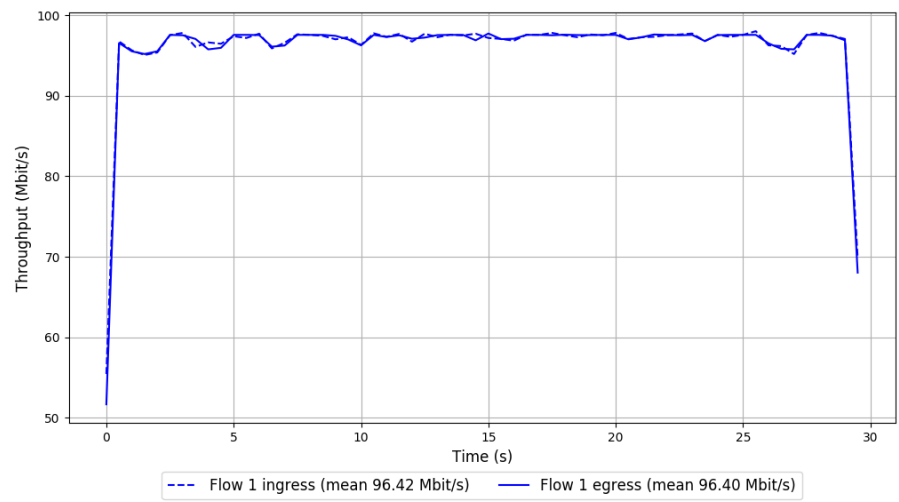Run 6: Report of Indigo — Data Link

```
Run 7: Statistics of Indigo

Start at: 2017-09-23 03:14:35
End at: 2017-09-23 03:15:05
Local clock offset: 0.099 ms
Remote clock offset: -4.675 ms

# Below is generated by plot.py at 2017-09-23 07:39:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 24.534 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 24.534 ms
Loss rate: 0.11%
```

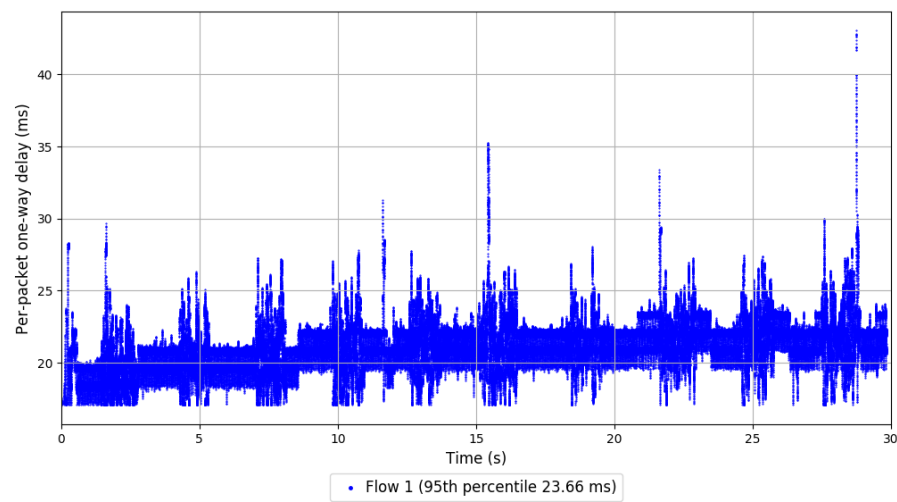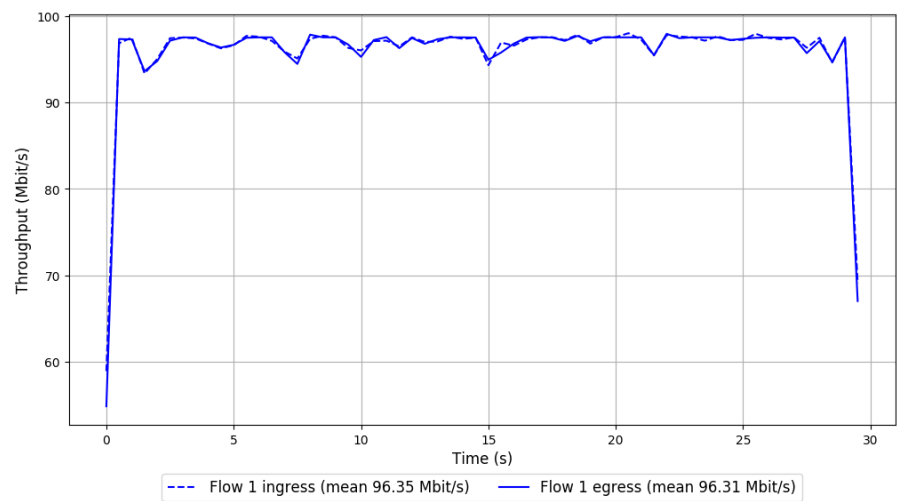Run 7: Report of Indigo — Data Link

```
Run 8: Statistics of Indigo

Start at: 2017-09-23 03:34:27
End at: 2017-09-23 03:34:57
Local clock offset: -0.87 ms
Remote clock offset: -4.376 ms


# Below is generated by plot.py at 2017-09-23 07:39:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 23.662 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 23.662 ms
Loss rate: 0.12%
```

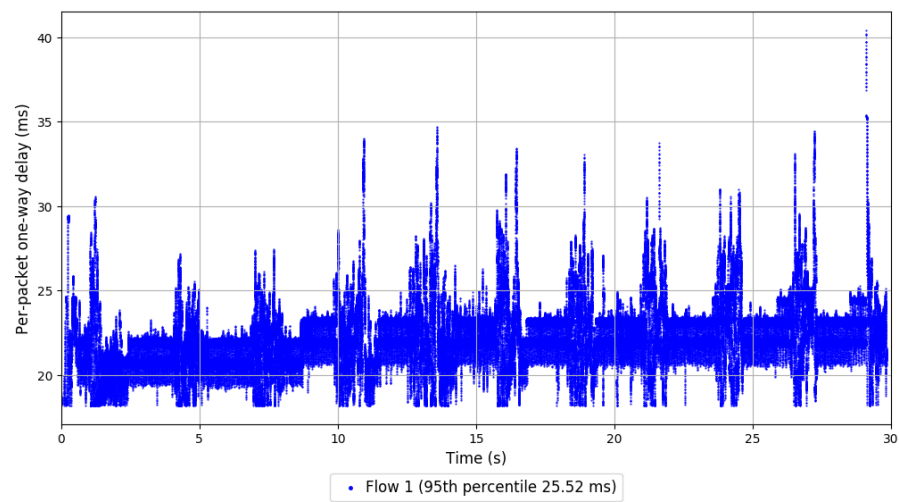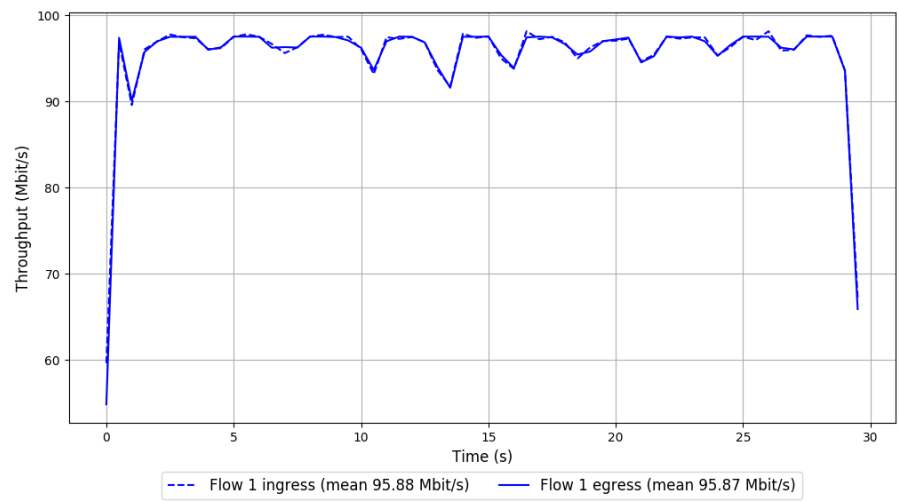Run 8: Report of Indigo — Data Link

```
Run 9: Statistics of Indigo

Start at: 2017-09-23 03:54:55
End at: 2017-09-23 03:55:25
Local clock offset: -0.701 ms
Remote clock offset: -5.027 ms


# Below is generated by plot.py at 2017-09-23 07:39:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 25.521 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 25.521 ms
Loss rate: 0.10%
```

## Run 9: Report of Indigo — Data Link



Flow 1 ingress (mean 95.88 Mbit/s) ----- Flow 1 egress (mean 95.87 Mbit/s)



• Flow 1 (95th percentile 25.52 ms)

```
Run 10: Statistics of Indigo

Start at: 2017-09-23 04:13:05
End at: 2017-09-23 04:13:35
Local clock offset: 0.272 ms
Remote clock offset: -4.642 ms


# Below is generated by plot.py at 2017-09-23 07:40:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 24.886 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.31 Mbit/s
95th percentile per-packet one-way delay: 24.886 ms
Loss rate: 0.11%
```
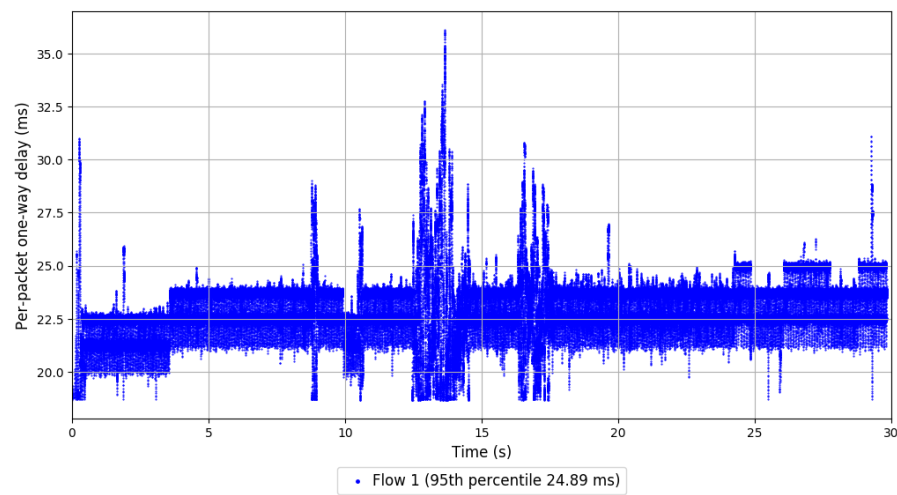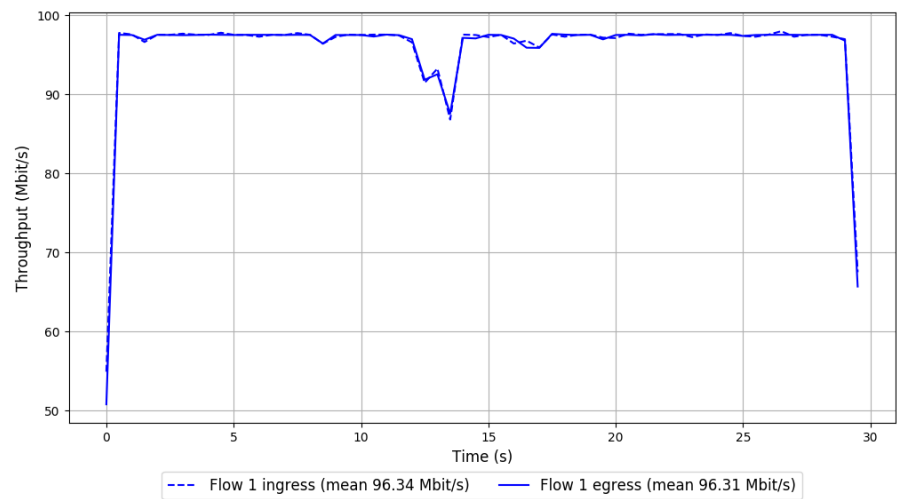
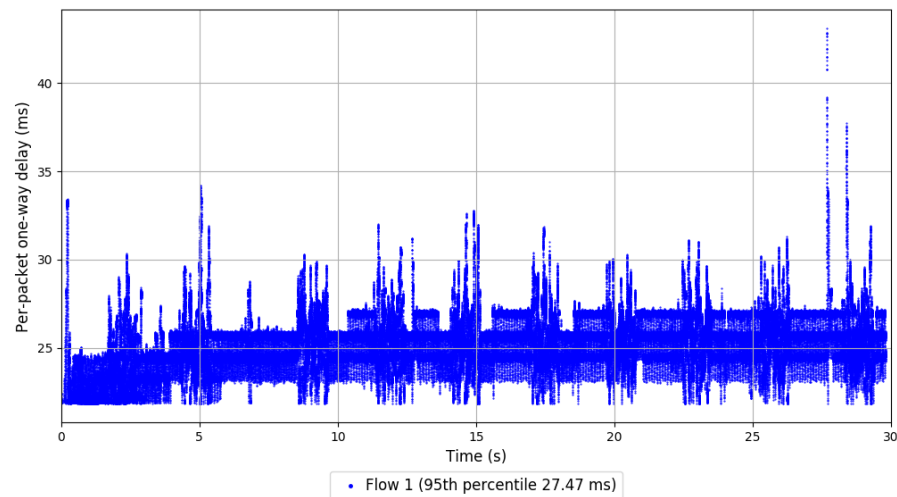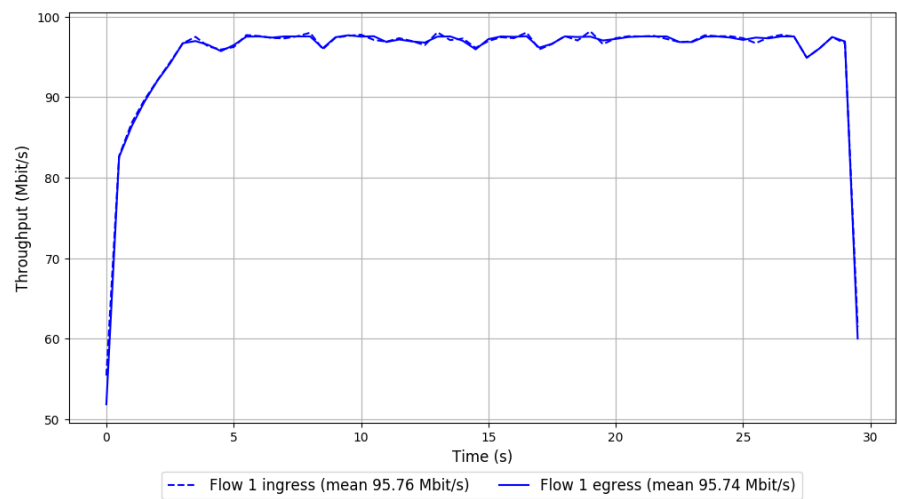Run 10: Report of Indigo — Data Link

```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-23 00:43:27
End at: 2017-09-23 00:43:57
Local clock offset: 1.082 ms
Remote clock offset: -5.711 ms


# Below is generated by plot.py at 2017-09-23 07:40:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 27.472 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 27.472 ms
Loss rate: 0.11%
```
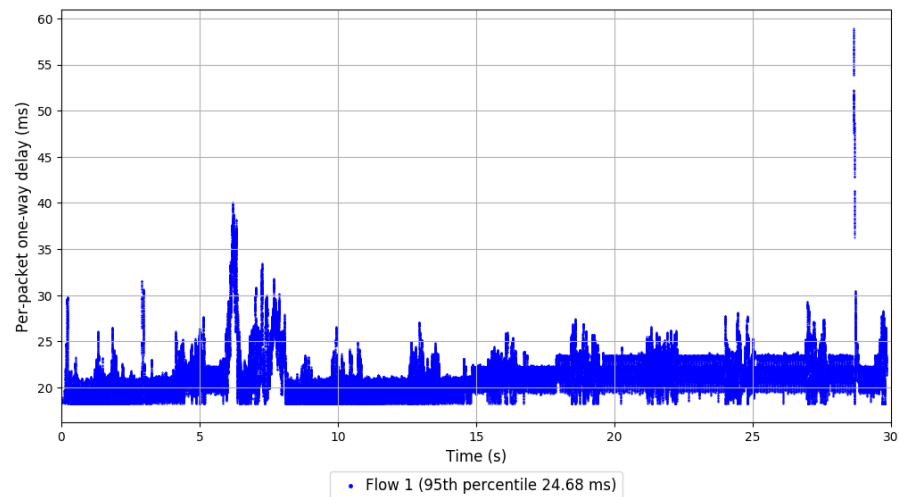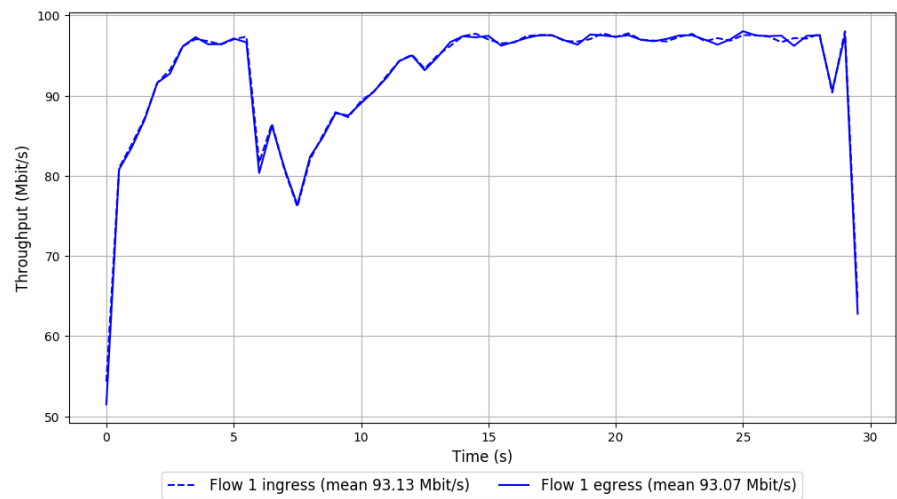
Run 1: Report of Indigo-calib — Data Link

```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-23 01:01:58
End at: 2017-09-23 01:02:28
Local clock offset: -1.929 ms
Remote clock offset: -5.811 ms


# Below is generated by plot.py at 2017-09-23 07:40:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 24.684 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 93.07 Mbit/s
95th percentile per-packet one-way delay: 24.684 ms
Loss rate: 0.15%
```
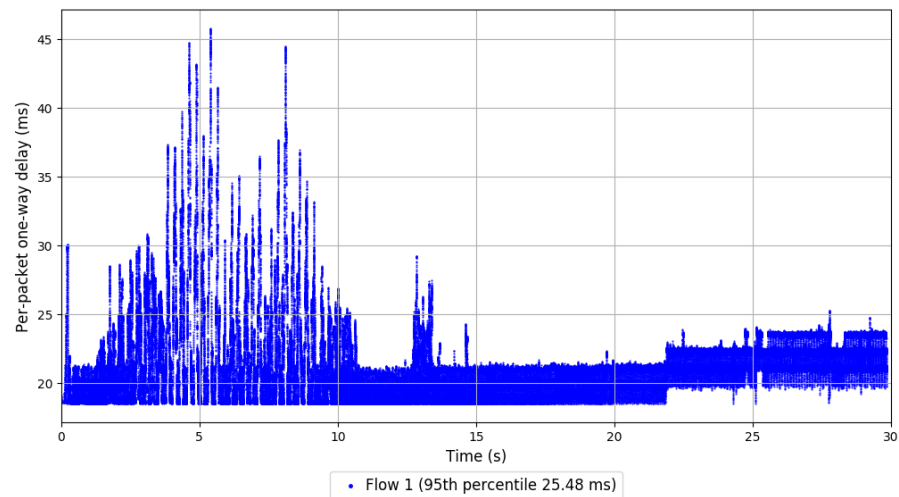
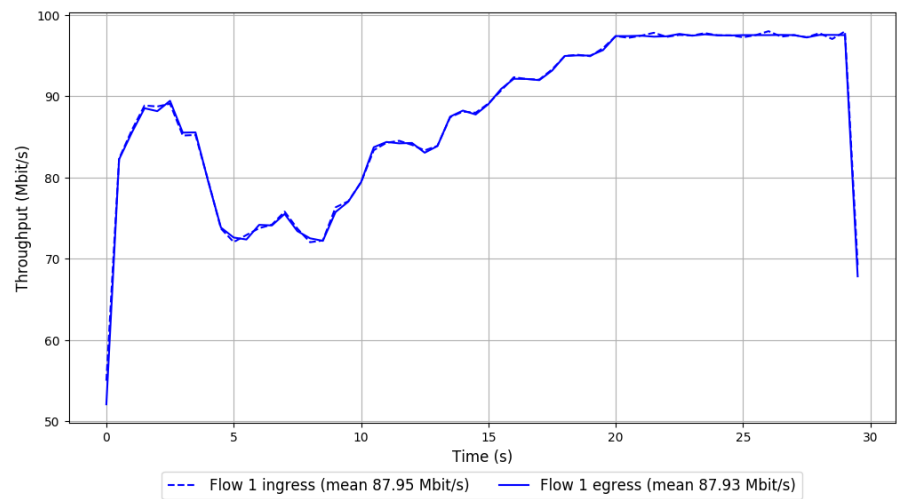# Run 2: Report of Indigo-calib — Data Link

```
Run 3: Statistics of Indigo-calib

Start at: 2017-09-23 01:38:13
End at: 2017-09-23 01:38:43
Local clock offset: 0.918 ms
Remote clock offset: -3.586 ms


# Below is generated by plot.py at 2017-09-23 07:40:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.93 Mbit/s
95th percentile per-packet one-way delay: 25.483 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 87.93 Mbit/s
95th percentile per-packet one-way delay: 25.483 ms
Loss rate: 0.11%
```

## Run 3: Report of Indigo-calib — Data Link

```
Run 4: Statistics of Indigo-calib

Start at: 2017-09-23 01:56:25
End at: 2017-09-23 01:56:56
Local clock offset: 1.013 ms
Remote clock offset: -3.912 ms


# Below is generated by plot.py at 2017-09-23 07:41:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 24.978 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.29 Mbit/s
95th percentile per-packet one-way delay: 24.978 ms
Loss rate: 0.11%
```
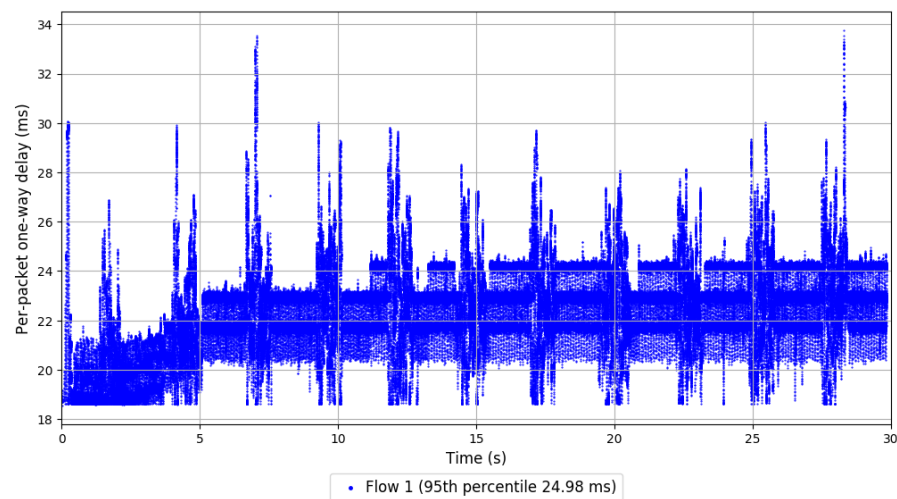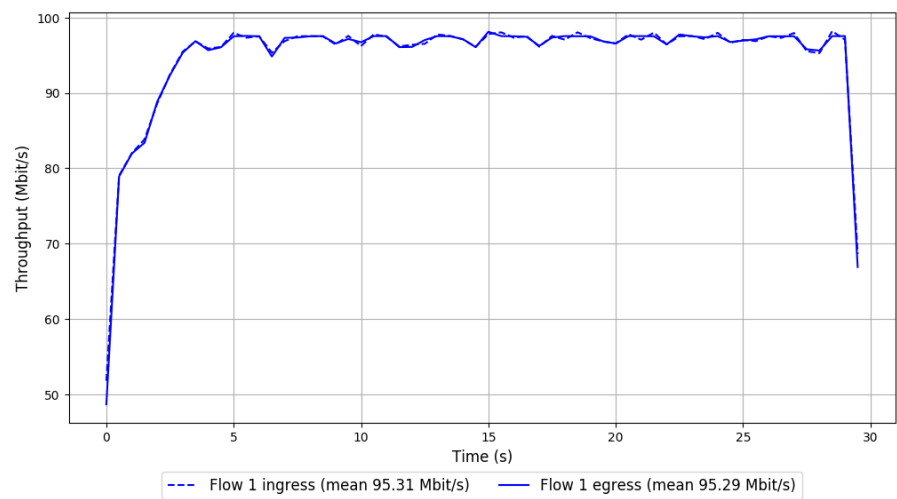
Run 4: Report of Indigo-calib — Data Link



- - - Flow 1 ingress (mean 95.31 Mbit/s) —— Flow 1 egress (mean 95.29 Mbit/s)
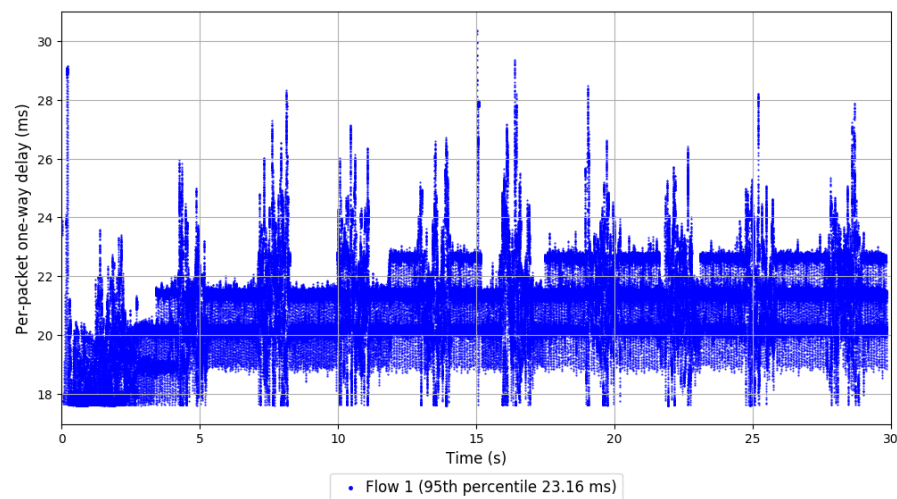
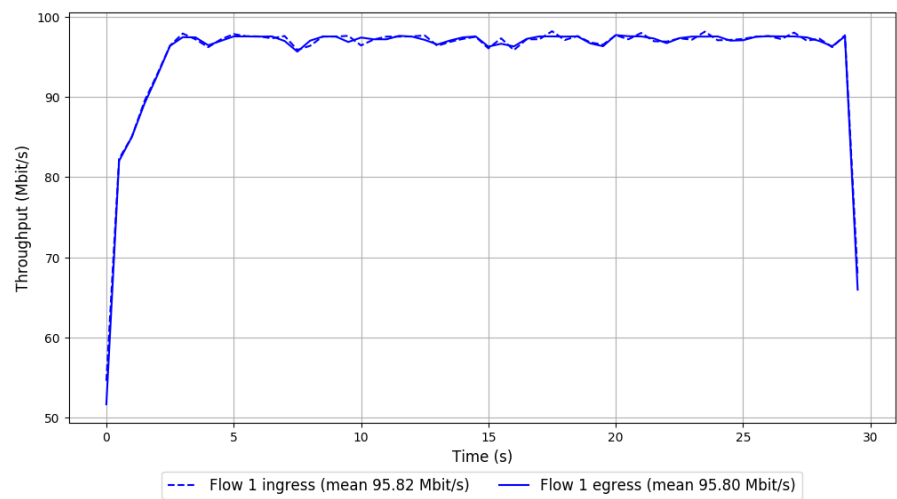

· Flow 1 (95th percentile 24.98 ms)

```
Run 5: Statistics of Indigo-calib

Start at: 2017-09-23 02:15:35
End at: 2017-09-23 02:16:05
Local clock offset: -1.221 ms
Remote clock offset: -5.123 ms


# Below is generated by plot.py at 2017-09-23 07:41:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 23.164 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.80 Mbit/s
95th percentile per-packet one-way delay: 23.164 ms
Loss rate: 0.10%
```

Run 5: Report of Indigo-calib — Data Link



Flow 1 ingress (mean 95.82 Mbit/s) --- Flow 1 egress (mean 95.80 Mbit/s)
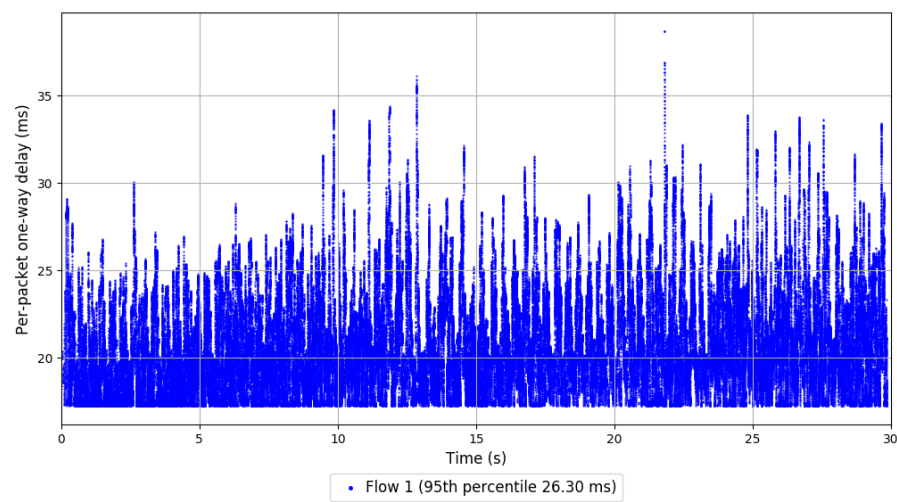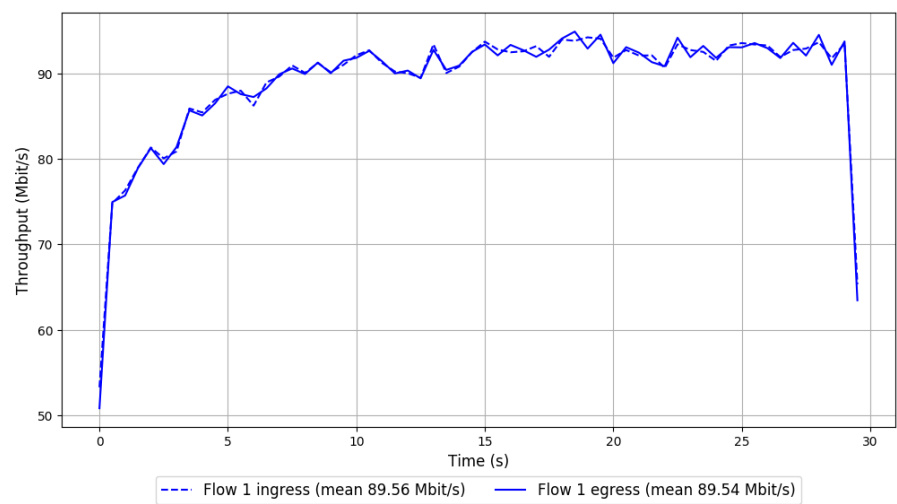


• Flow 1 (95th percentile 23.16 ms)

```
Run 6: Statistics of Indigo-calib

Start at: 2017-09-23 02:59:44
End at: 2017-09-23 03:00:14
Local clock offset: -0.541 ms
Remote clock offset: -4.647 ms


# Below is generated by plot.py at 2017-09-23 07:41:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 26.300 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 89.54 Mbit/s
95th percentile per-packet one-way delay: 26.300 ms
Loss rate: 0.11%
```

Run 6: Report of Indigo-calib — Data Link

```
Run 7: Statistics of Indigo-calib

Start at: 2017-09-23 03:25:43
End at: 2017-09-23 03:26:13
Local clock offset: 2.196 ms
Remote clock offset: -4.75 ms


# Below is generated by plot.py at 2017-09-23 07:41:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 26.907 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.58 Mbit/s
95th percentile per-packet one-way delay: 26.907 ms
Loss rate: 0.10%
```
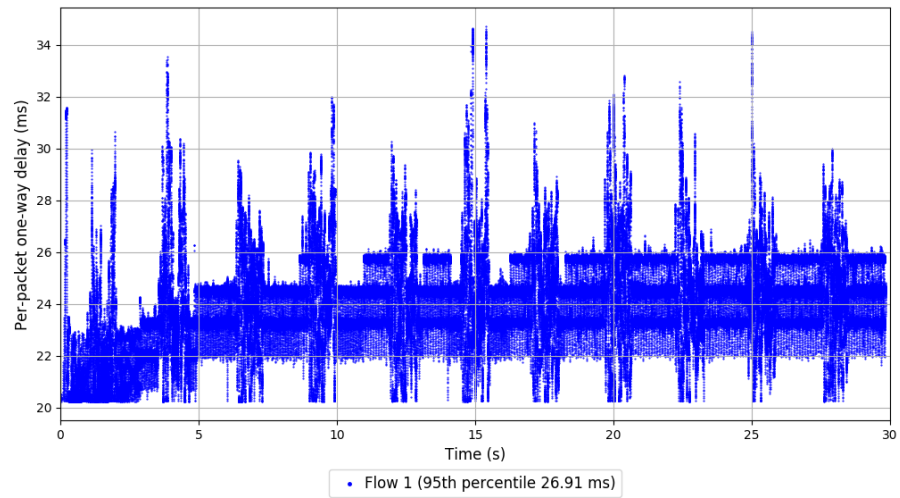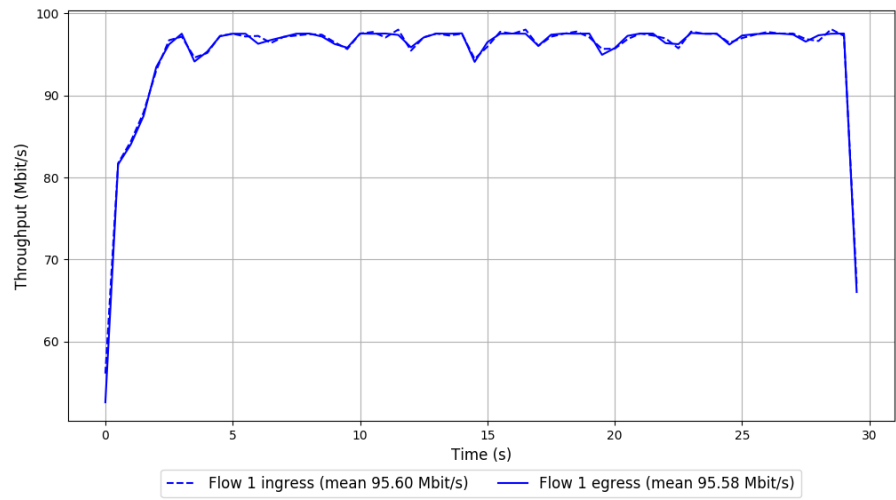
Run 7: Report of Indigo-calib — Data Link



Flow 1 ingress (mean 95.60 Mbit/s) --- Flow 1 egress (mean 95.58 Mbit/s)
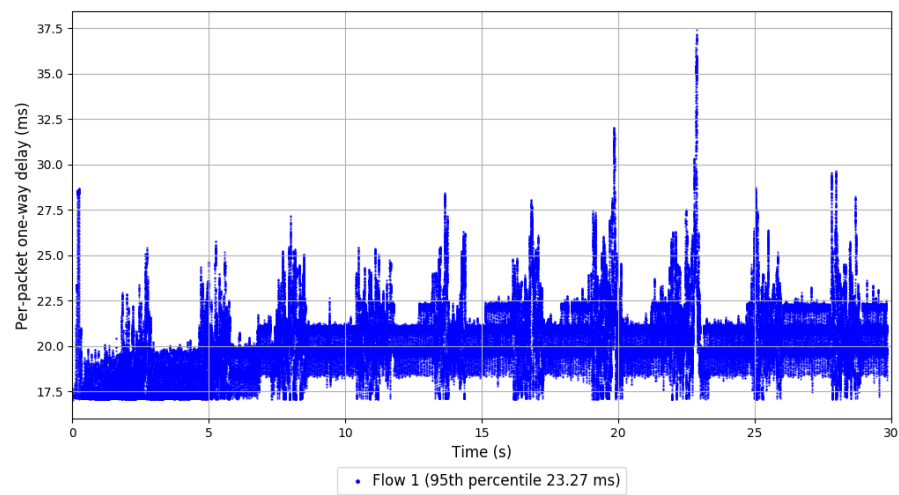
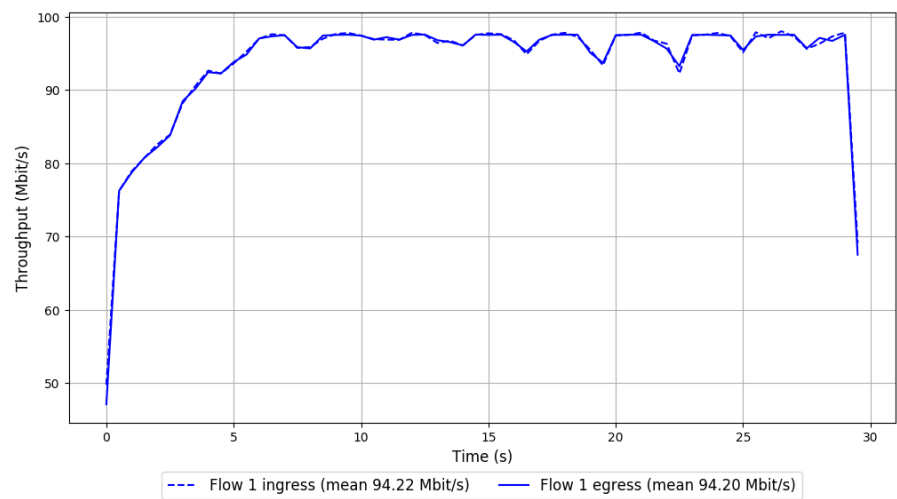

• Flow 1 (95th percentile 26.91 ms)

```
Run 8: Statistics of Indigo-calib

Start at: 2017-09-23 03:45:41
End at: 2017-09-23 03:46:11
Local clock offset: -1.103 ms
Remote clock offset: -4.351 ms


# Below is generated by plot.py at 2017-09-23 07:41:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 23.275 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 23.275 ms
Loss rate: 0.10%
```

# Run 8: Report of Indigo-calib — Data Link



Flow 1 ingress (mean 94.22 Mbit/s) ----- Flow 1 egress (mean 94.20 Mbit/s)



Flow 1 (95th percentile 23.27 ms)

```
Run 9: Statistics of Indigo-calib

Start at: 2017-09-23 04:05:40
End at: 2017-09-23 04:06:10
Local clock offset: 2.039 ms
Remote clock offset: -4.583 ms


# Below is generated by plot.py at 2017-09-23 07:41:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 25.995 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 25.995 ms
Loss rate: 0.10%
```
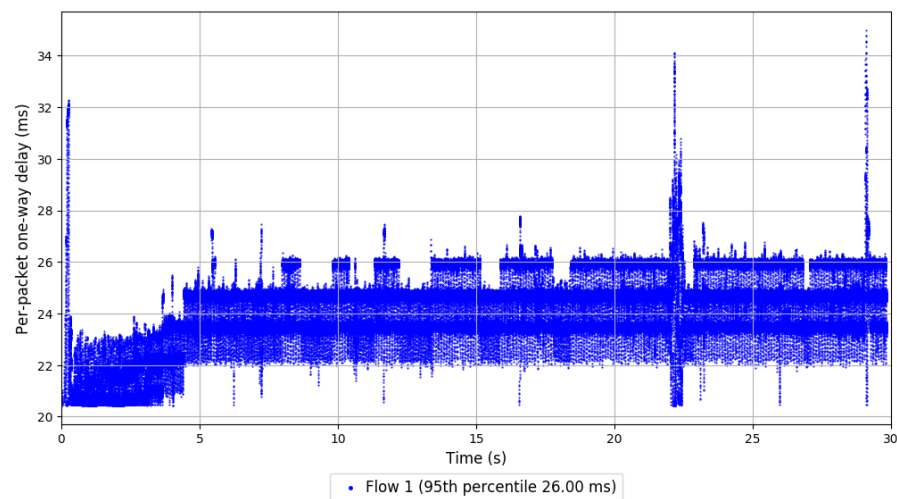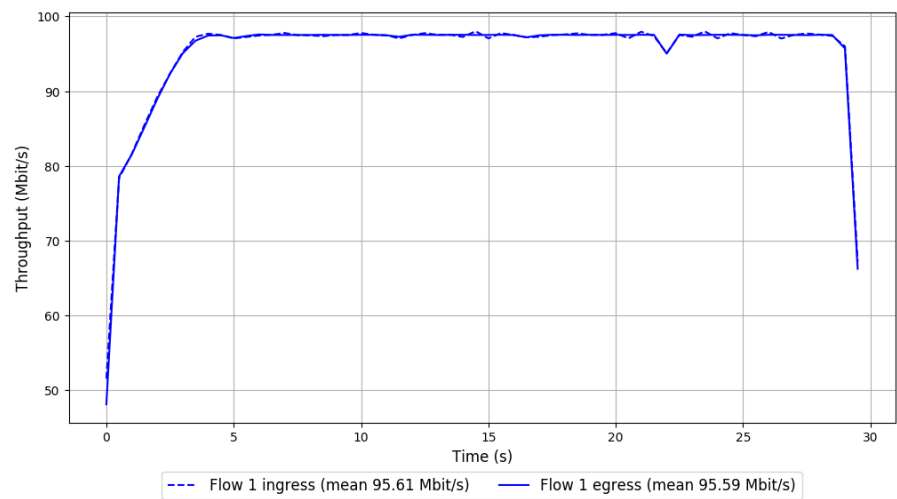
Run 9: Report of Indigo-calib — Data Link



Flow 1 ingress (mean 95.61 Mbit/s)     Flow 1 egress (mean 95.59 Mbit/s)



• Flow 1 (95th percentile 26.00 ms)

```
Run 10: Statistics of Indigo-calib

Start at: 2017-09-23 04:22:56
End at: 2017-09-23 04:23:26
Local clock offset: -0.458 ms
Remote clock offset: -4.55 ms


# Below is generated by plot.py at 2017-09-23 07:42:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 22.743 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 22.743 ms
Loss rate: 0.11%
```
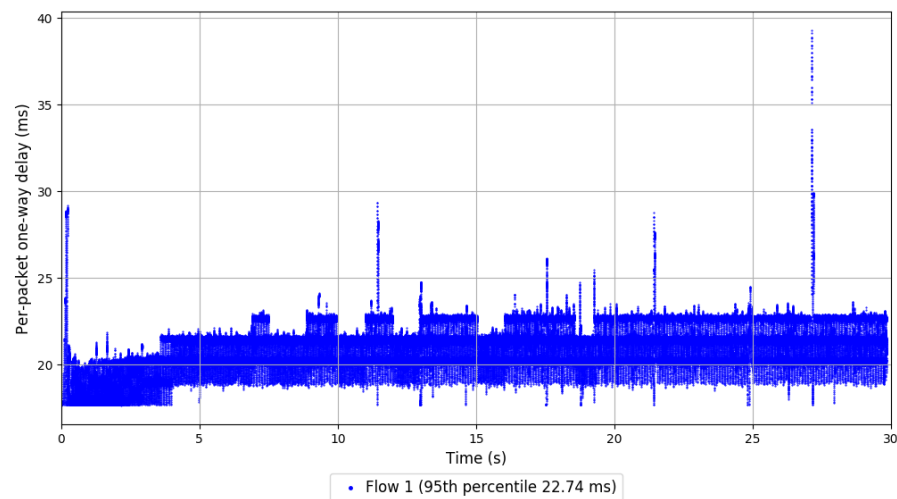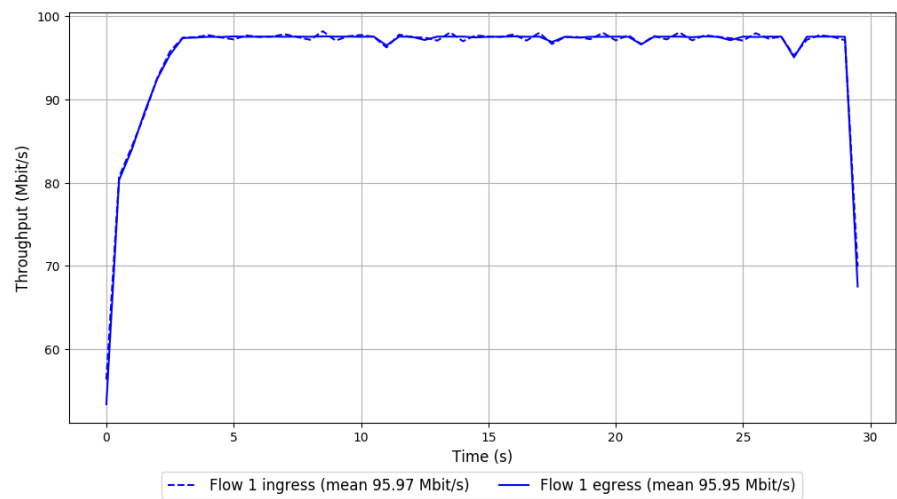
Run 10: Report of Indigo-calib — Data Link



Flow 1 ingress (mean 95.97 Mbit/s)        Flow 1 egress (mean 95.95 Mbit/s)
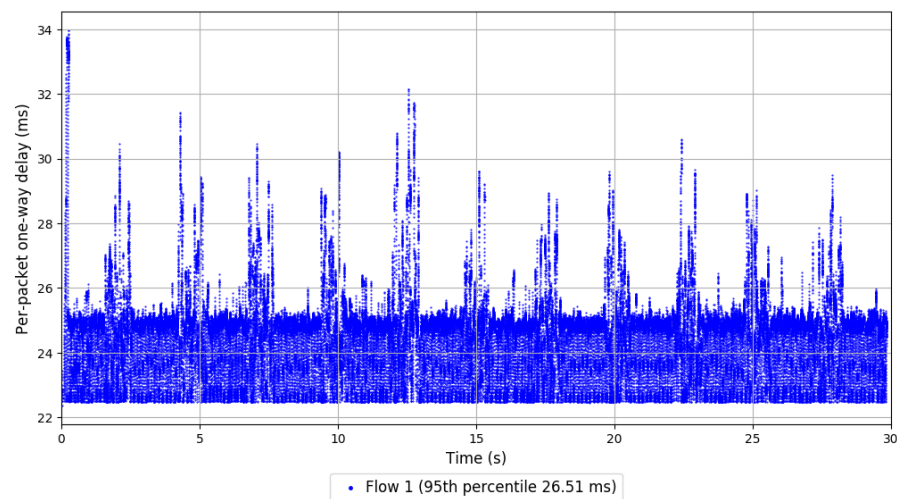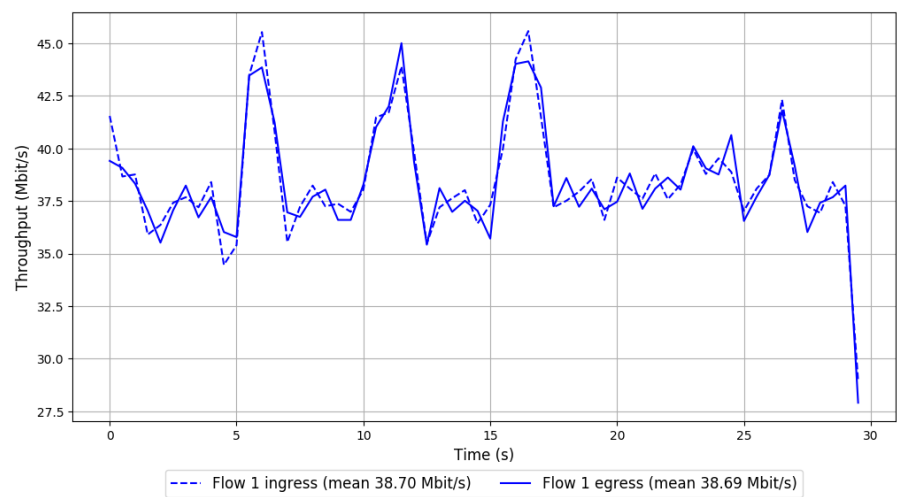


• Flow 1 (95th percentile 22.74 ms)

```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-23 00:39:39
End at: 2017-09-23 00:40:09
Local clock offset: 1.951 ms
Remote clock offset: -5.417 ms


# Below is generated by plot.py at 2017-09-23 07:42:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 26.513 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 38.69 Mbit/s
95th percentile per-packet one-way delay: 26.513 ms
Loss rate: 0.13%
```
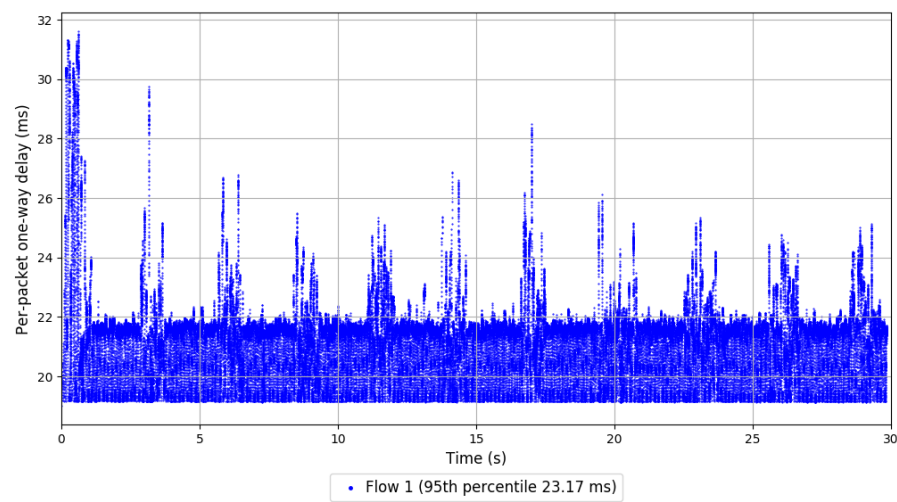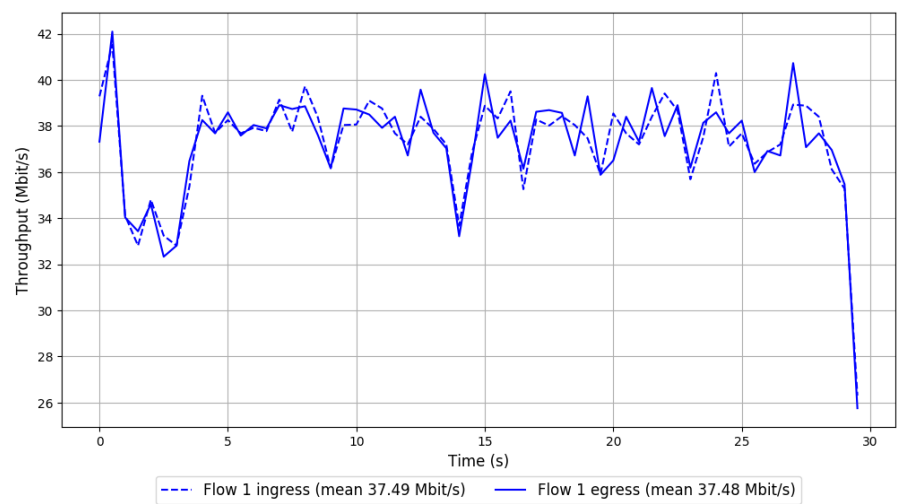
Run 1: Report of Indigo-delay — Data Link

```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-23 00:57:54
End at: 2017-09-23 00:58:24
Local clock offset: -1.299 ms
Remote clock offset: -5.887 ms


# Below is generated by plot.py at 2017-09-23 07:42:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.48 Mbit/s
95th percentile per-packet one-way delay: 23.168 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 37.48 Mbit/s
95th percentile per-packet one-way delay: 23.168 ms
Loss rate: 0.11%
```

Run 2: Report of Indigo-delay — Data Link



Flow 1 ingress (mean 37.49 Mbit/s) ----- Flow 1 egress (mean 37.48 Mbit/s)
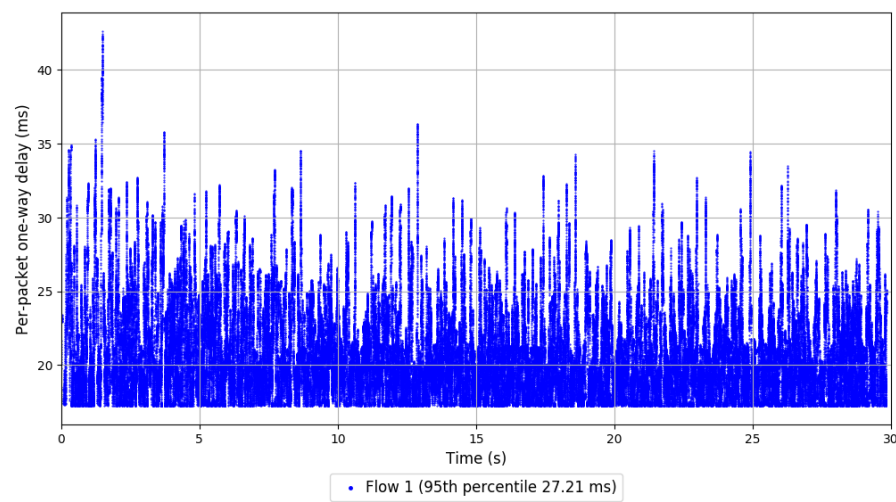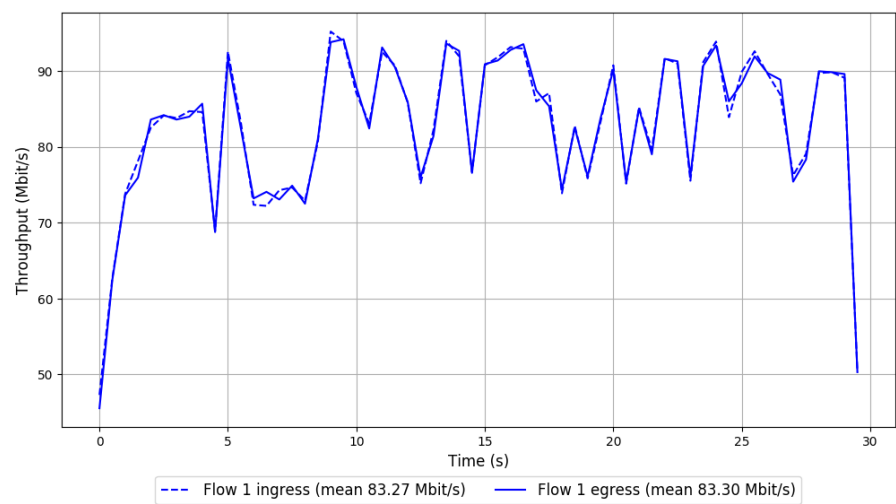


• Flow 1 (95th percentile 23.17 ms)

```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-23 01:28:13
End at: 2017-09-23 01:28:43
Local clock offset: -1.128 ms
Remote clock offset: -4.106 ms


# Below is generated by plot.py at 2017-09-23 07:42:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.30 Mbit/s
95th percentile per-packet one-way delay: 27.214 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 83.30 Mbit/s
95th percentile per-packet one-way delay: 27.214 ms
Loss rate: 0.06%
```
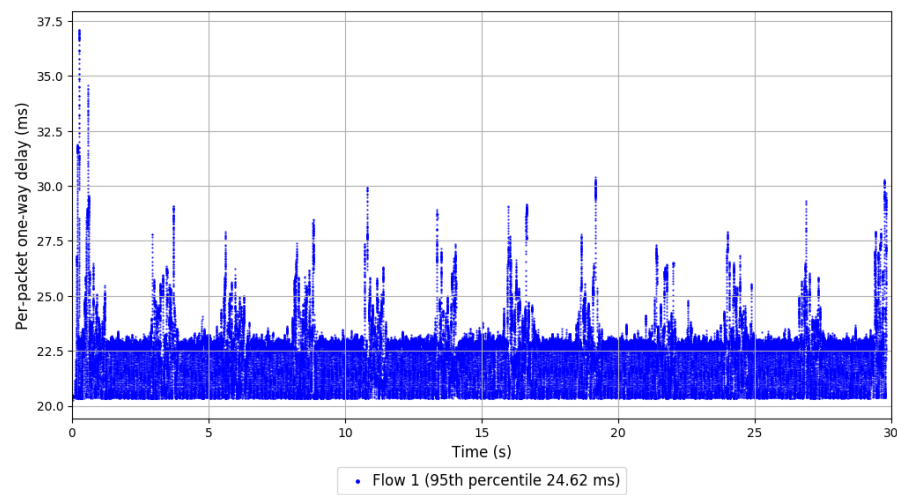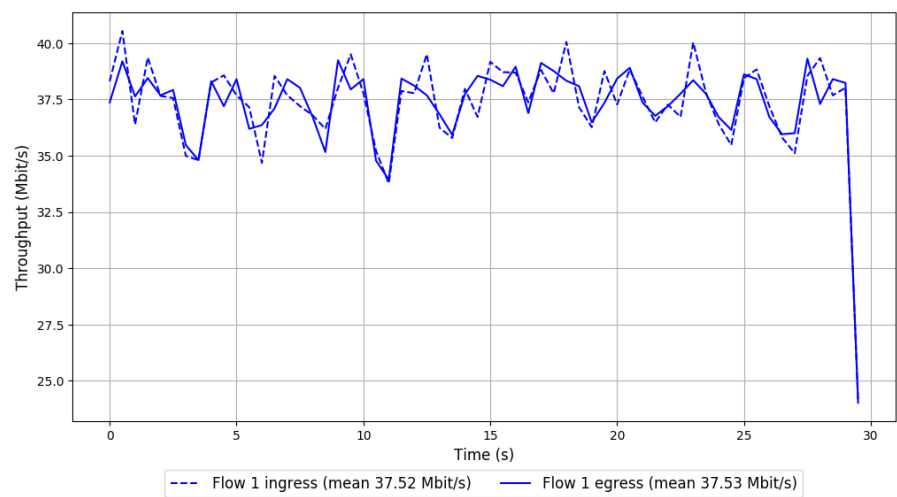
Run 3: Report of Indigo-delay — Data Link

```
Run 4: Statistics of Indigo-delay

Start at: 2017-09-23 01:52:32
End at: 2017-09-23 01:53:02
Local clock offset: 1.561 ms
Remote clock offset: -5.179 ms


# Below is generated by plot.py at 2017-09-23 07:42:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 24.618 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 37.53 Mbit/s
95th percentile per-packet one-way delay: 24.618 ms
Loss rate: 0.07%
```
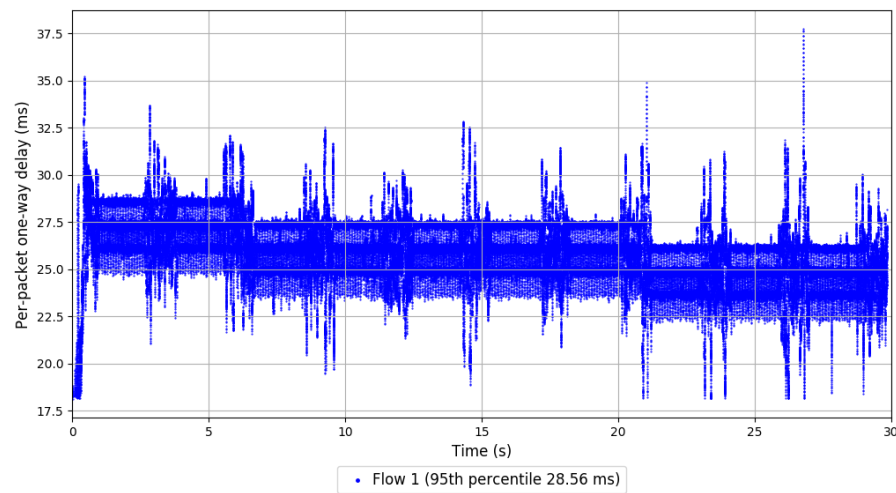
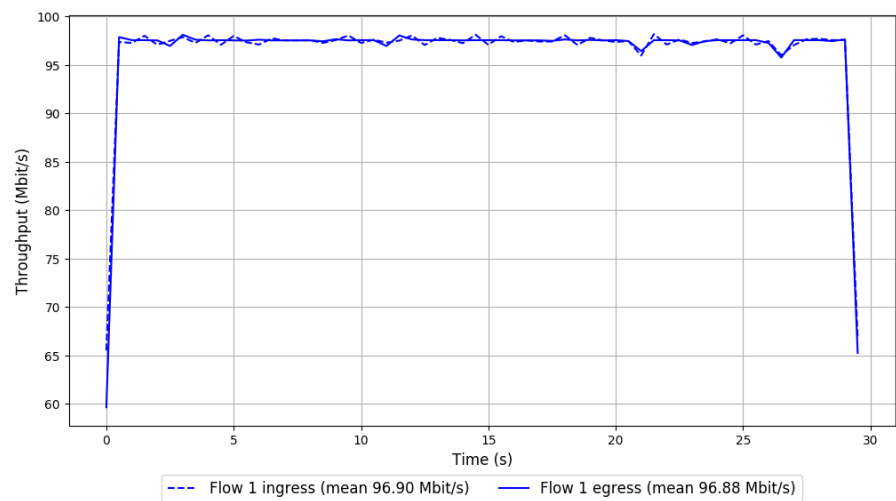Run 4: Report of Indigo-delay — Data Link

```
Run 5: Statistics of Indigo-delay

Start at: 2017-09-23 02:11:18
End at: 2017-09-23 02:11:48
Local clock offset: 0.586 ms
Remote clock offset: -3.801 ms


# Below is generated by plot.py at 2017-09-23 07:42:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 28.560 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 96.88 Mbit/s
95th percentile per-packet one-way delay: 28.560 ms
Loss rate: 0.11%
```

Run 5: Report of Indigo-delay — Data Link

```
Run 6: Statistics of Indigo-delay

Start at: 2017-09-23 02:39:53
End at: 2017-09-23 02:40:23
Local clock offset: 1.899 ms
Remote clock offset: -3.799 ms


# Below is generated by plot.py at 2017-09-23 07:42:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.88 Mbit/s
95th percentile per-packet one-way delay: 40.147 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 30.88 Mbit/s
95th percentile per-packet one-way delay: 40.147 ms
Loss rate: 0.12%
```
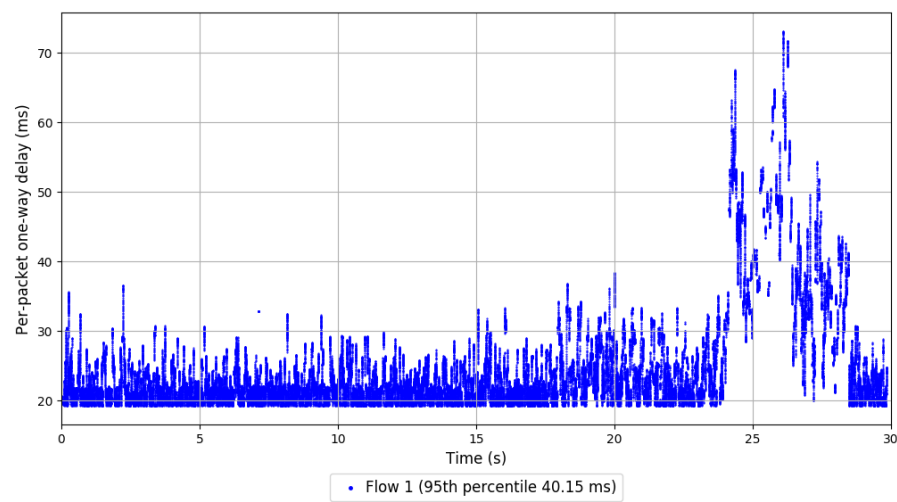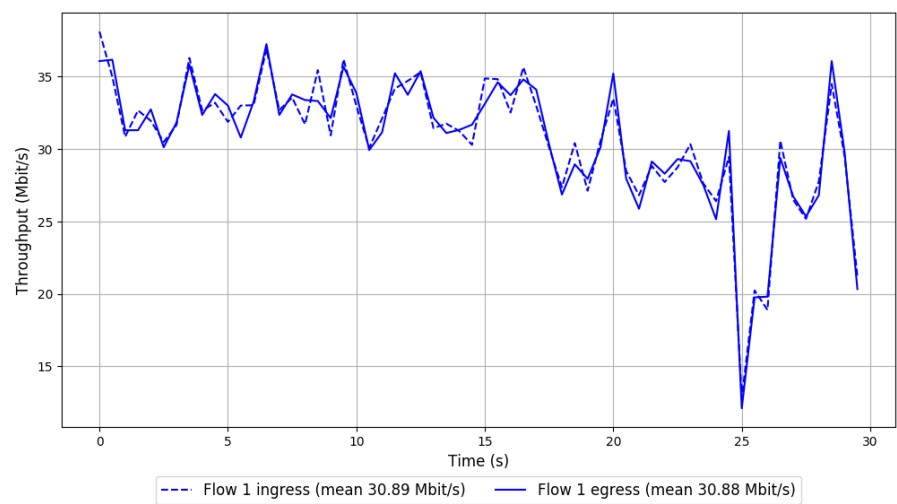
Run 6: Report of Indigo-delay — Data Link

```
Run 7: Statistics of Indigo-delay

Start at: 2017-09-23 03:21:22
End at: 2017-09-23 03:21:52
Local clock offset: 1.033 ms
Remote clock offset: -4.51 ms


# Below is generated by plot.py at 2017-09-23 07:42:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.26 Mbit/s
95th percentile per-packet one-way delay: 23.702 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 38.26 Mbit/s
95th percentile per-packet one-way delay: 23.702 ms
Loss rate: 0.06%
```
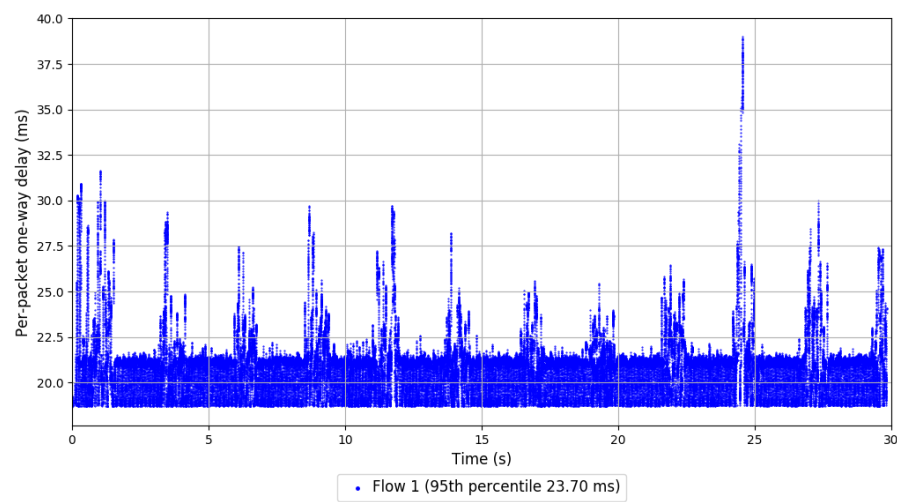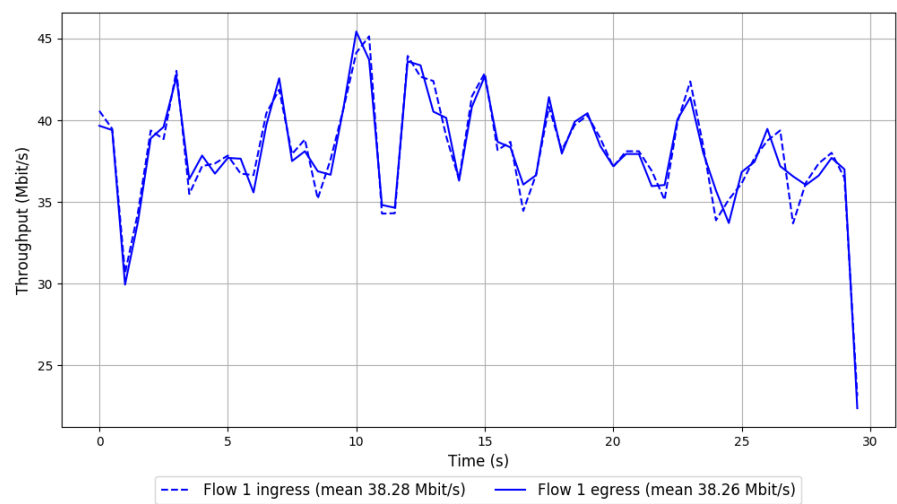
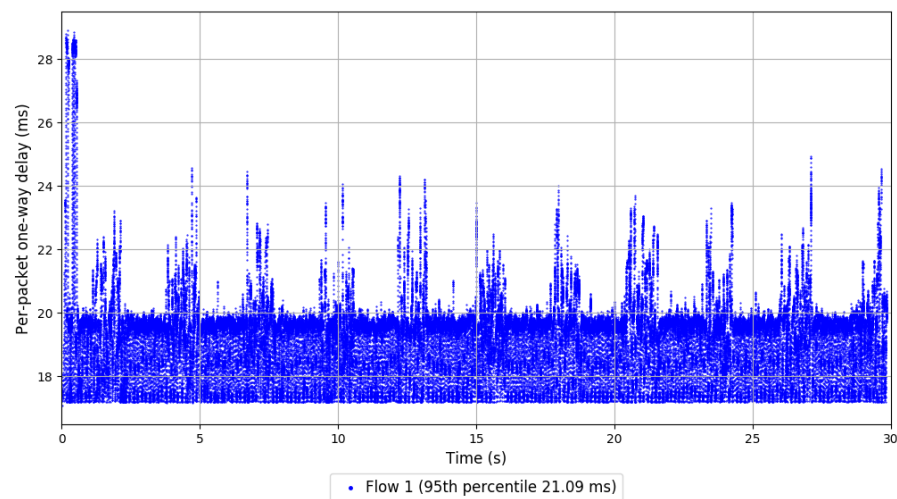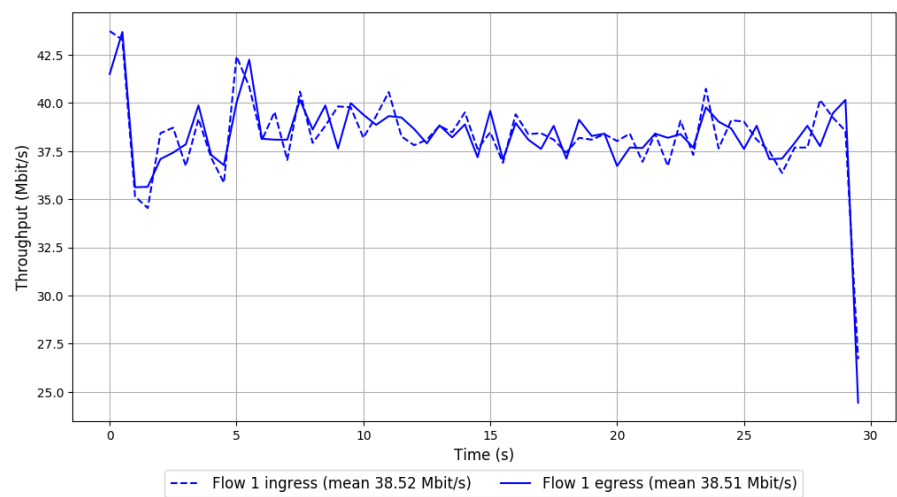Run 7: Report of Indigo-delay — Data Link

```
Run 8: Statistics of Indigo-delay

Start at: 2017-09-23 03:41:31
End at: 2017-09-23 03:42:01
Local clock offset: -1.289 ms
Remote clock offset: -4.747 ms


# Below is generated by plot.py at 2017-09-23 07:42:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 21.088 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 21.088 ms
Loss rate: 0.12%
```

# Run 8: Report of Indigo-delay — Data Link



Flow 1 ingress (mean 38.52 Mbit/s)    Flow 1 egress (mean 38.51 Mbit/s)



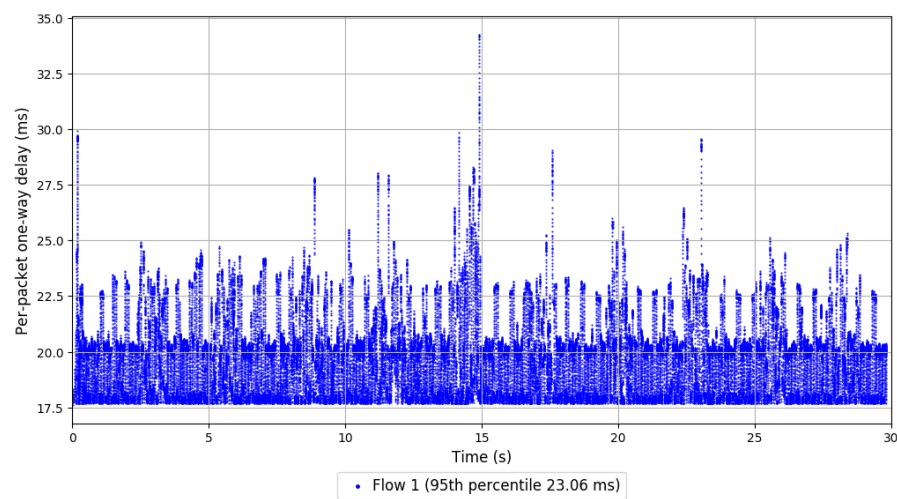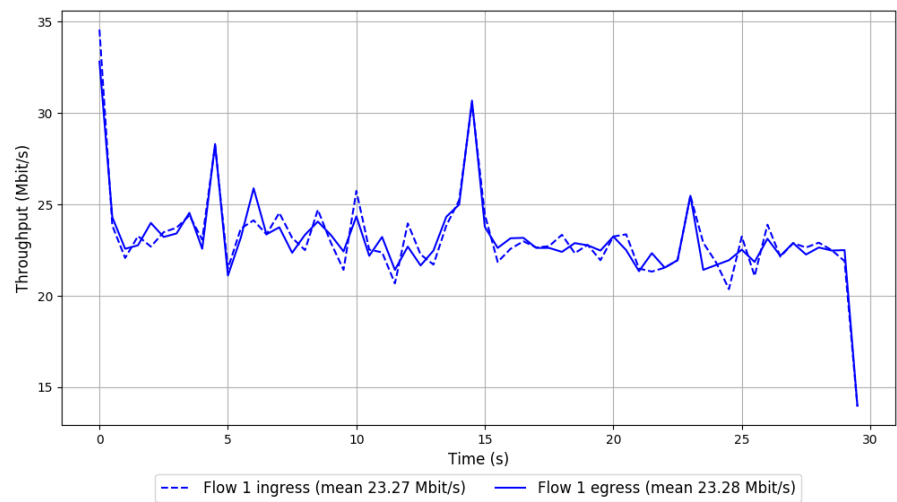• Flow 1 (95th percentile 21.09 ms)

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```
Run 9: Statistics of Indigo-delay

Start at: 2017-09-23 04:01:53
End at: 2017-09-23 04:02:23
Local clock offset: -1.195 ms
Remote clock offset: -5.049 ms


# Below is generated by plot.py at 2017-09-23 07:42:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 23.060 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 23.060 ms
Loss rate: 0.06%
```

Run 9: Report of Indigo-delay — Data Link

```
Run 10: Statistics of Indigo-delay

Start at: 2017-09-23 04:19:11
End at: 2017-09-23 04:19:41
Local clock offset: -0.198 ms
Remote clock offset: -4.702 ms


# Below is generated by plot.py at 2017-09-23 07:42:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 20.990 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 38.71 Mbit/s
95th percentile per-packet one-way delay: 20.990 ms
Loss rate: 0.08%
```

Run 10: Report of Indigo-delay — Data Link