Pantheon Report

Generated at 2018-01-26 10:18:30 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

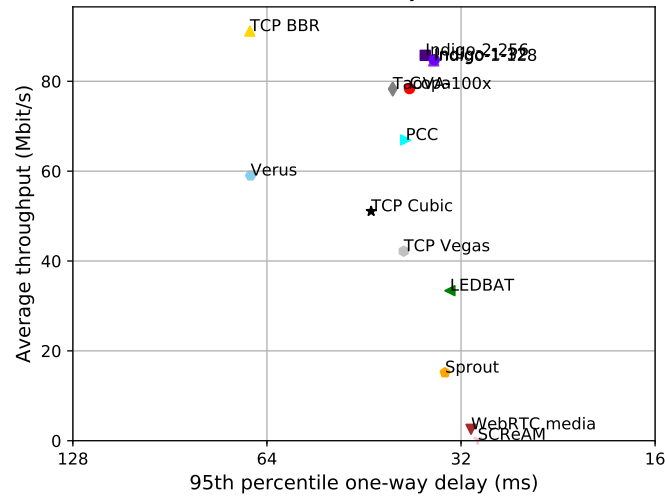Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

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

```
Git summary:
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```
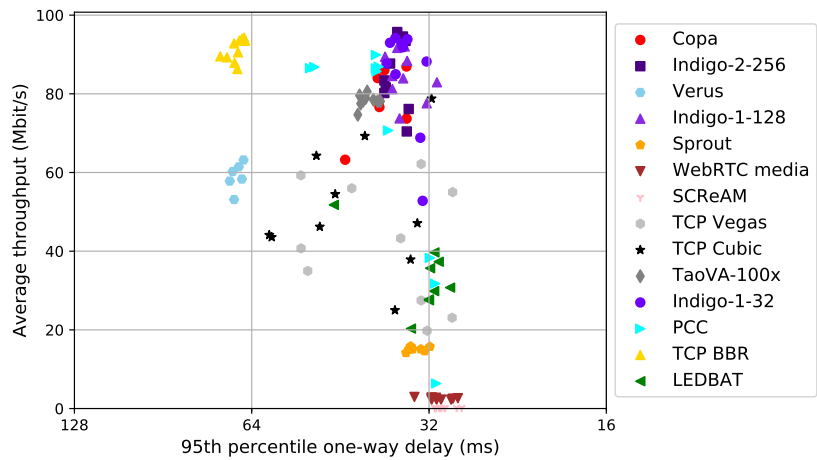
test from AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme (mean of all runs by scheme)

test from AWS California 2 Ethernet to Mexico 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	91.17	68.03	22.13
TCP Cubic	10	51.07	44.11	0.31
LEDBAT	9	33.40	33.30	0.13
PCC	10	66.93	38.99	0.77
QUIC Cubic	0	N/A	N/A	N/A
SCReAM	9	0.21	30.15	0.10
WebRTC media	10	2.54	30.88	0.14
Sprout	10	15.16	33.89	0.17
TaoVA-100x	10	78.30	40.84	0.32
TCP Vegas	10	42.17	39.27	0.46
Verus	6	59.03	67.87	32.32
Copa	7	78.37	38.47	0.19
Indigo-2-256	10	85.77	36.36	0.43
Indigo-1-32	10	84.80	35.21	0.20
Indigo-1-128	10	84.55	35.28	0.28

```
Run 1: Statistics of TCP BBR

Start at: 2018-01-26 00:18:21
End at: 2018-01-26 00:18:51
Local clock offset: 0.917 ms
Remote clock offset: -1.12 ms


# Below is generated by plot.py at 2018-01-26 10:03:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 67.163 ms
Loss rate: 21.90%
-- Flow 1:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 67.163 ms
Loss rate: 21.90%
```
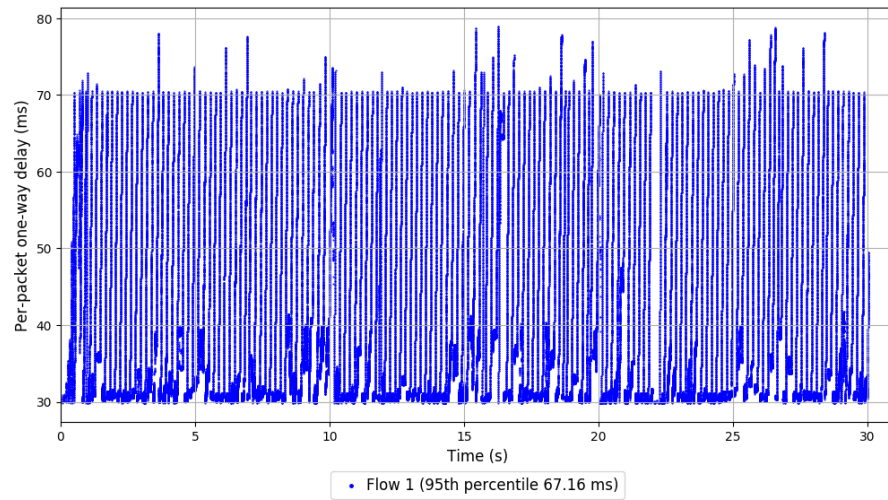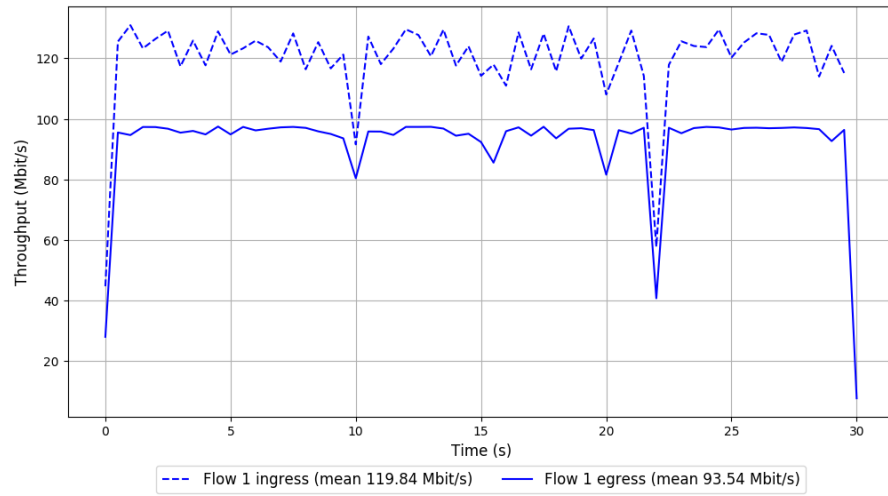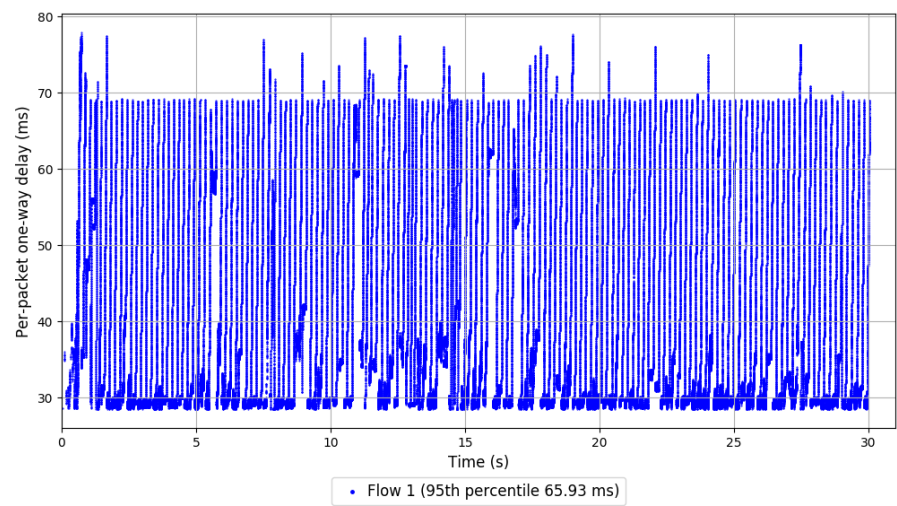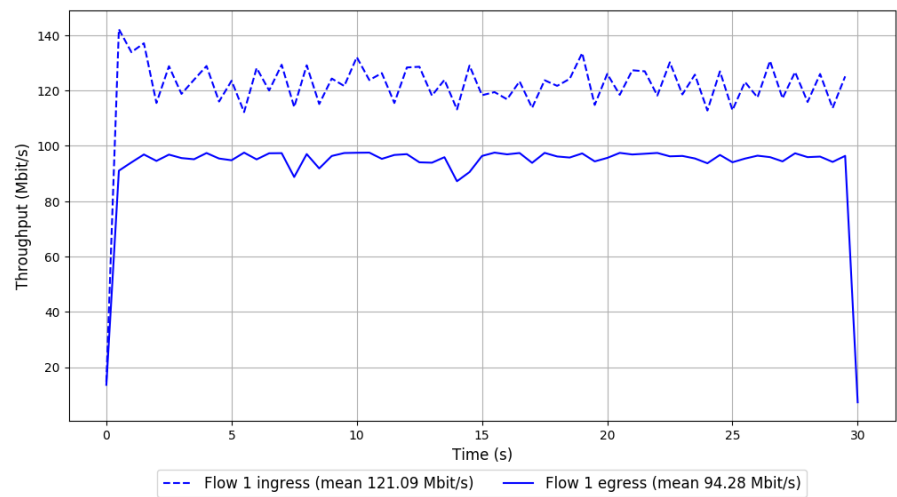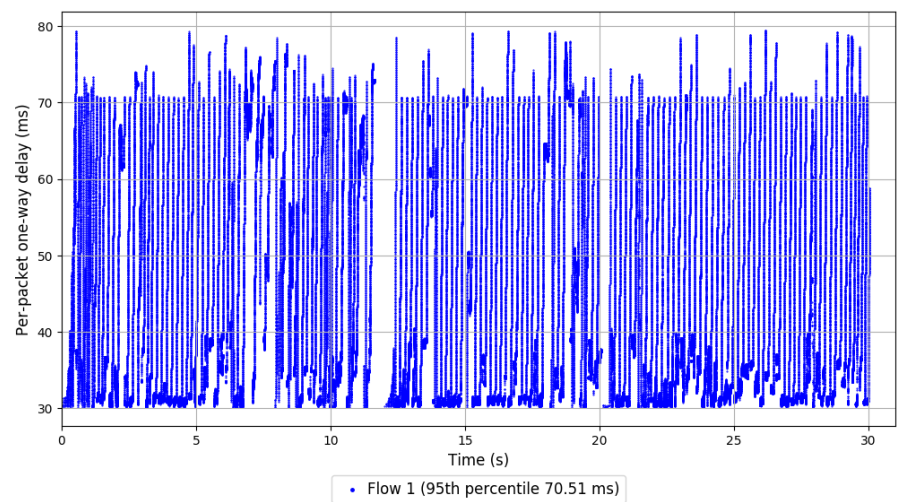
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 119.84 Mbit/s) --- Flow 1 egress (mean 93.54 Mbit/s)

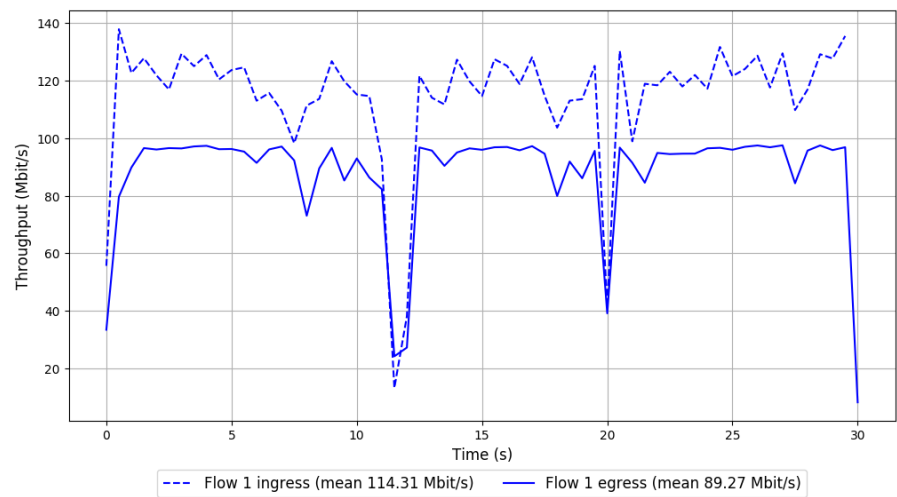
Flow 1 (95th percentile 67.16 ms)

5

```
Run 2: Statistics of TCP BBR

Start at: 2018-01-26 00:42:03
End at: 2018-01-26 00:42:33
Local clock offset: 1.024 ms
Remote clock offset: -3.299 ms


# Below is generated by plot.py at 2018-01-26 10:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 65.933 ms
Loss rate: 22.10%
-- Flow 1:
Average throughput: 94.28 Mbit/s
95th percentile per-packet one-way delay: 65.933 ms
Loss rate: 22.10%
```
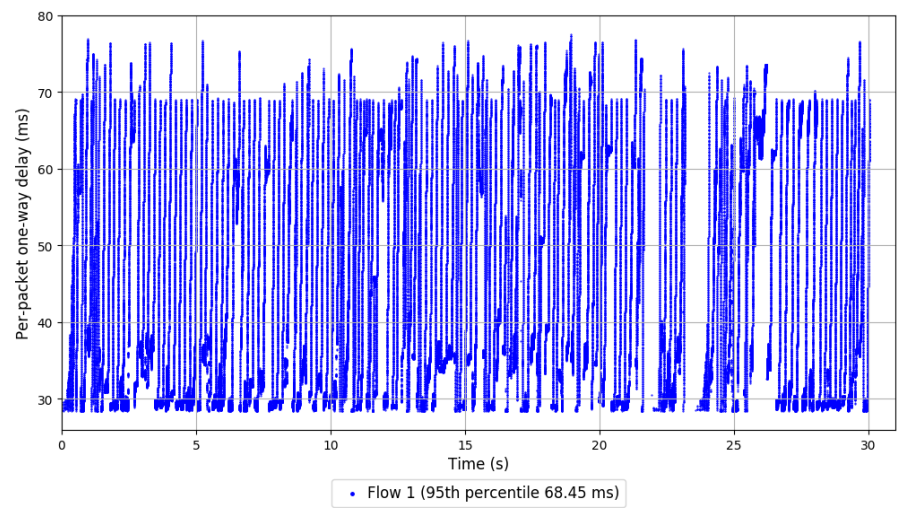
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2018-01-26 01:05:41
End at: 2018-01-26 01:06:11
Local clock offset: 1.201 ms
Remote clock offset: -1.176 ms


# Below is generated by plot.py at 2018-01-26 10:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 70.512 ms
Loss rate: 21.85%
-- Flow 1:
Average throughput: 89.27 Mbit/s
95th percentile per-packet one-way delay: 70.512 ms
Loss rate: 21.85%
```
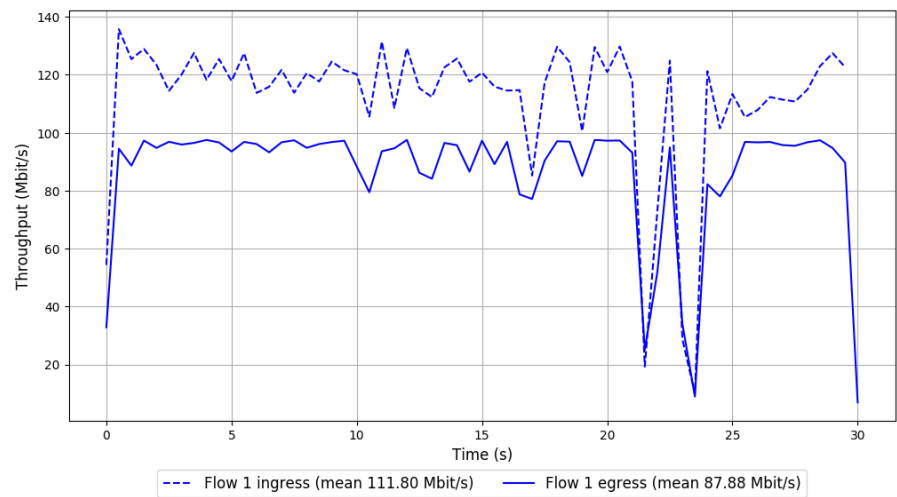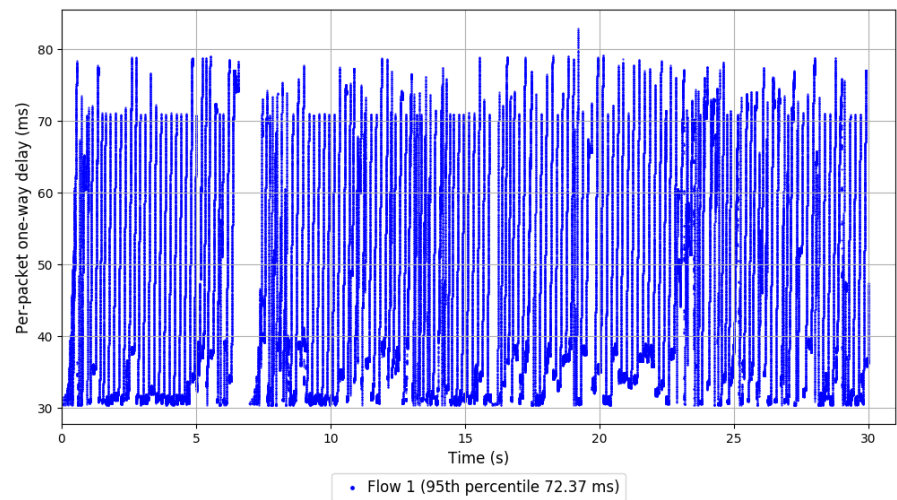
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 114.31 Mbit/s) --- Flow 1 egress (mean 89.27 Mbit/s)

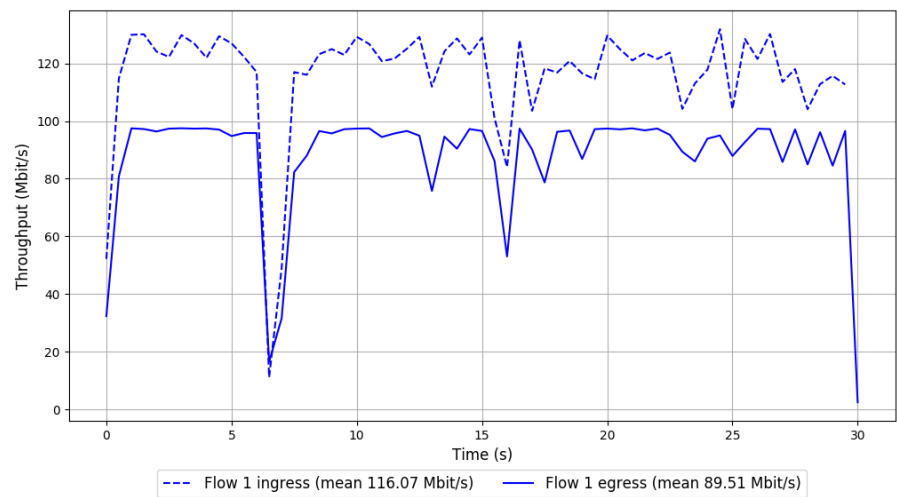• Flow 1 (95th percentile 70.51 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2018-01-26 01:29:06
End at: 2018-01-26 01:29:36
Local clock offset: 1.411 ms
Remote clock offset: -3.714 ms


# Below is generated by plot.py at 2018-01-26 10:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.88 Mbit/s
95th percentile per-packet one-way delay: 68.447 ms
Loss rate: 21.36%
-- Flow 1:
Average throughput: 87.88 Mbit/s
95th percentile per-packet one-way delay: 68.447 ms
Loss rate: 21.36%
```
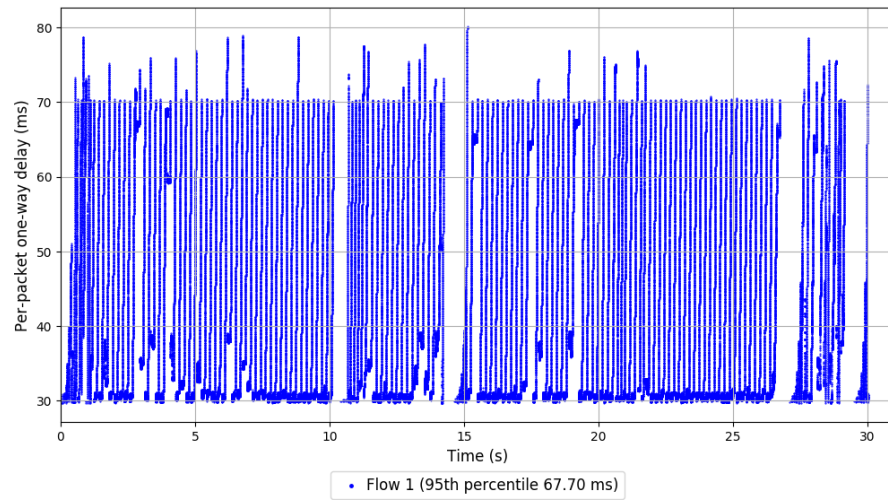
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2018-01-26 01:51:32
End at: 2018-01-26 01:52:02
Local clock offset: 1.452 ms
Remote clock offset: -2.322 ms


# Below is generated by plot.py at 2018-01-26 10:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.51 Mbit/s
95th percentile per-packet one-way delay: 72.368 ms
Loss rate: 22.83%
-- Flow 1:
Average throughput: 89.51 Mbit/s
95th percentile per-packet one-way delay: 72.368 ms
Loss rate: 22.83%
```
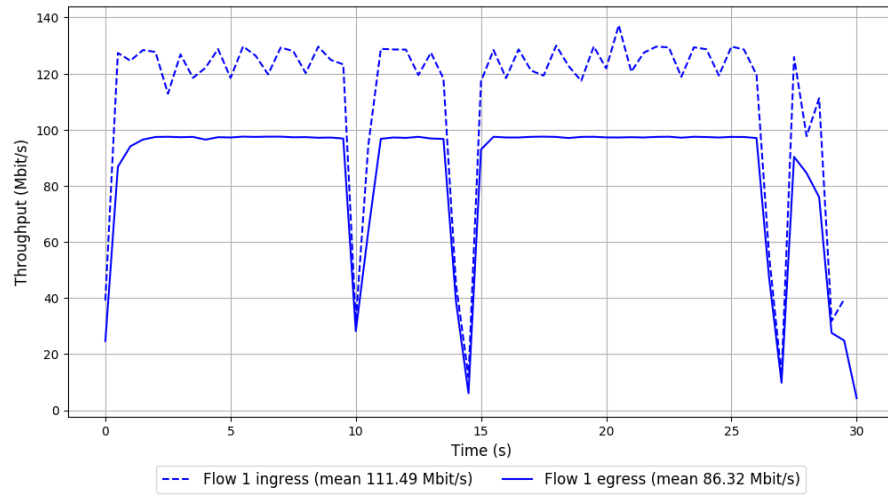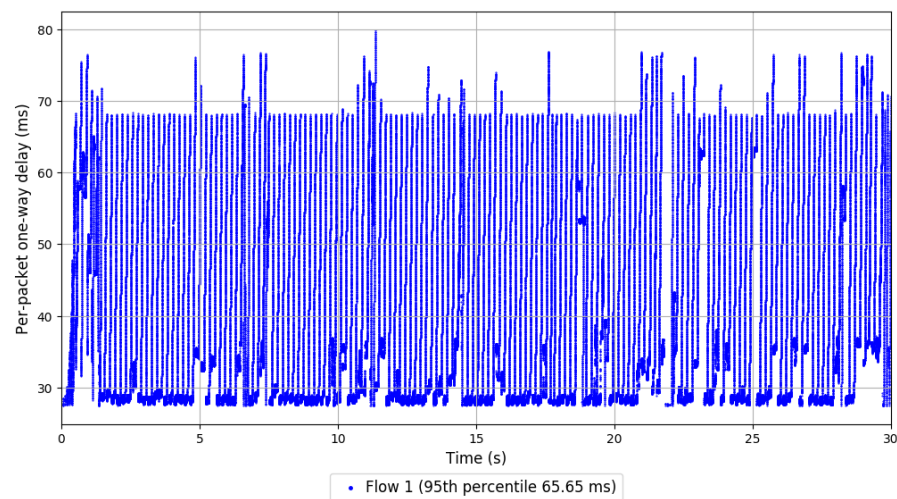
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 116.07 Mbit/s)   Flow 1 egress (mean 89.51 Mbit/s)

• Flow 1 (95th percentile 72.37 ms)

```
Run 6: Statistics of TCP BBR

Start at: 2018-01-26 02:12:55
End at: 2018-01-26 02:13:25
Local clock offset: 1.394 ms
Remote clock offset: -2.193 ms


# Below is generated by plot.py at 2018-01-26 10:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.32 Mbit/s
95th percentile per-packet one-way delay: 67.696 ms
Loss rate: 22.58%
-- Flow 1:
Average throughput: 86.32 Mbit/s
95th percentile per-packet one-way delay: 67.696 ms
Loss rate: 22.58%
```
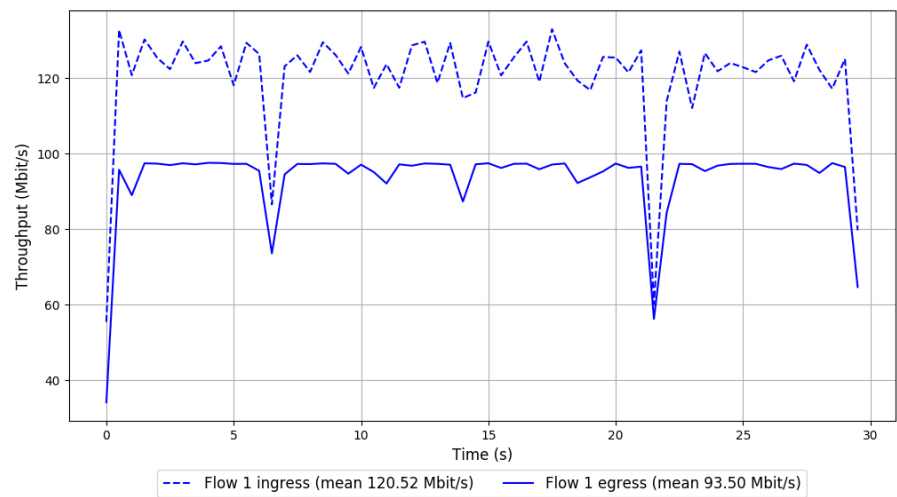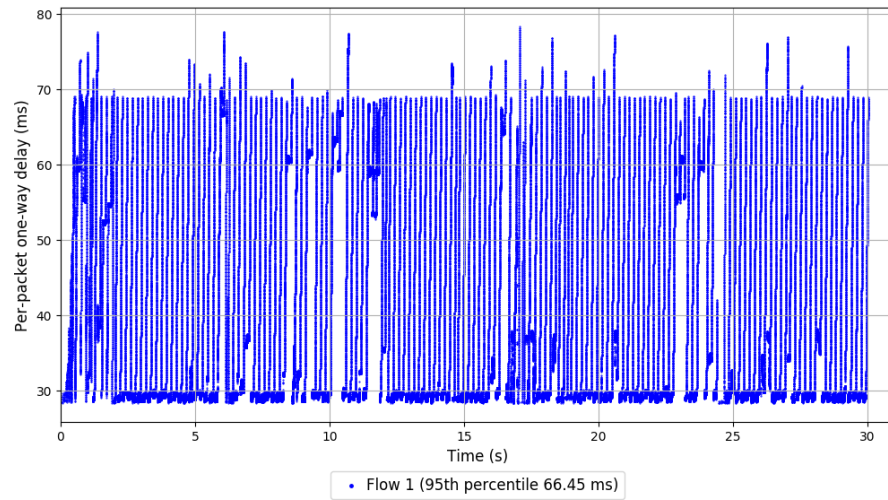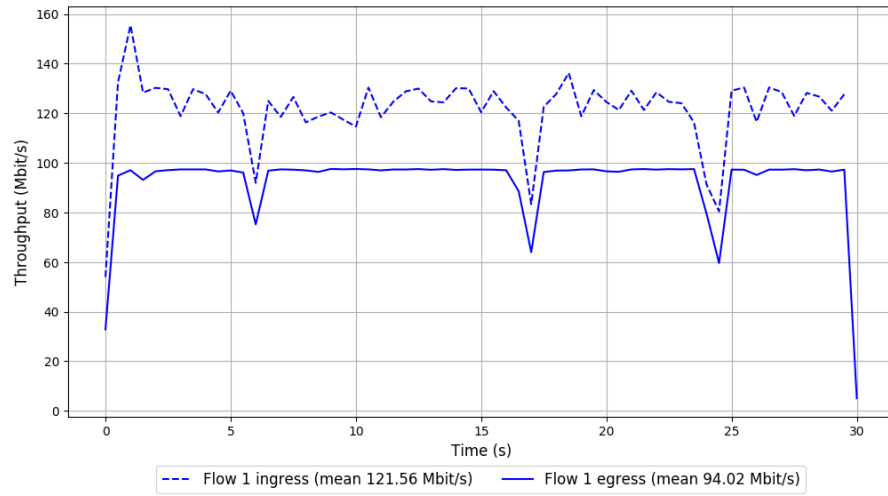
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 111.49 Mbit/s) --- Flow 1 egress (mean 86.32 Mbit/s) ——

• Flow 1 (95th percentile 67.70 ms)

15

```
Run 7: Statistics of TCP BBR

Start at: 2018-01-26 02:34:35
End at: 2018-01-26 02:35:05
Local clock offset: 1.345 ms
Remote clock offset: -3.539 ms


# Below is generated by plot.py at 2018-01-26 10:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 65.647 ms
Loss rate: 22.31%
-- Flow 1:
Average throughput: 93.50 Mbit/s
95th percentile per-packet one-way delay: 65.647 ms
Loss rate: 22.31%
```
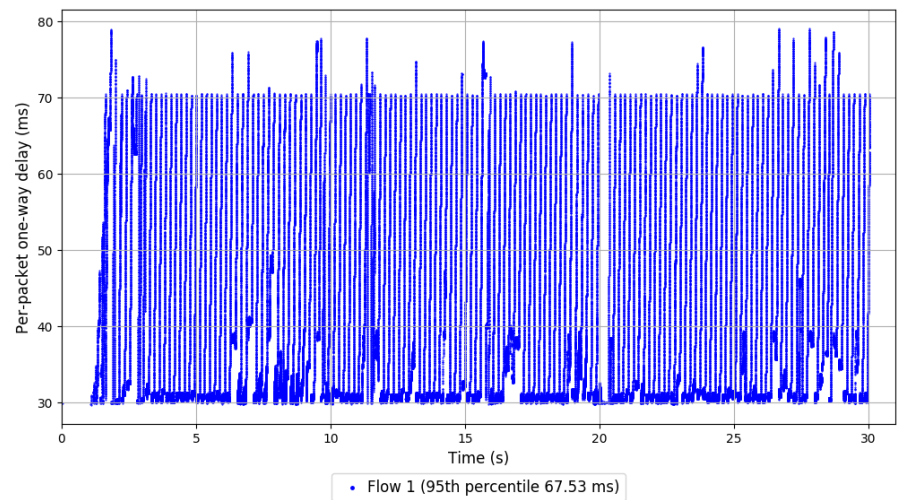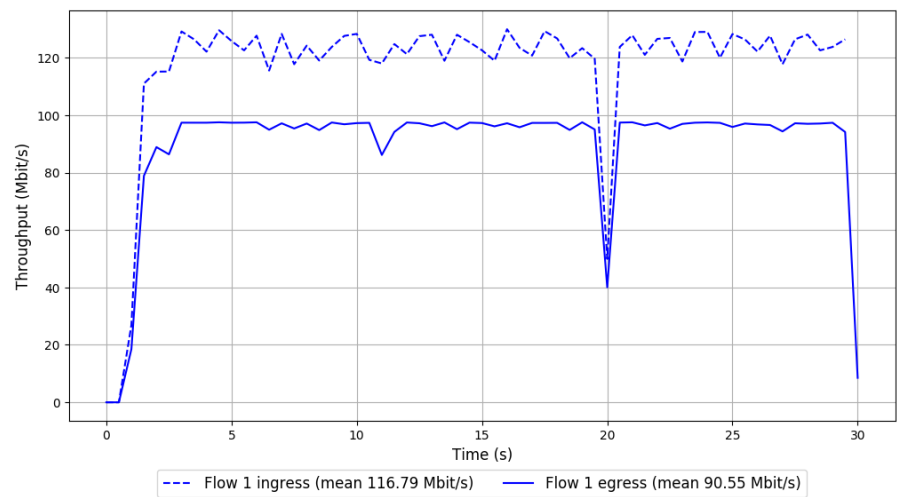
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 120.52 Mbit/s) --- Flow 1 egress (mean 93.50 Mbit/s)

• Flow 1 (95th percentile 65.65 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-01-26 02:56:42
End at: 2018-01-26 02:57:12
Local clock offset: 1.269 ms
Remote clock offset: -2.848 ms


# Below is generated by plot.py at 2018-01-26 10:03:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 66.449 ms
Loss rate: 22.64%
-- Flow 1:
Average throughput: 94.02 Mbit/s
95th percentile per-packet one-way delay: 66.449 ms
Loss rate: 22.64%
```
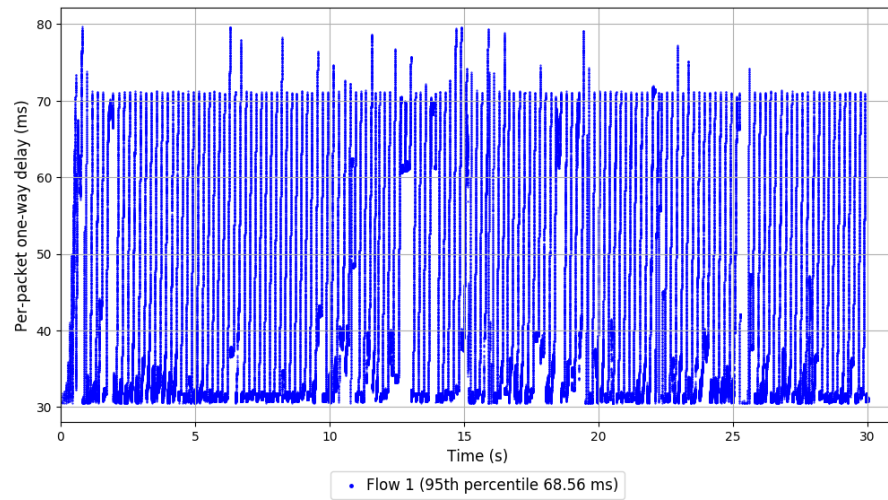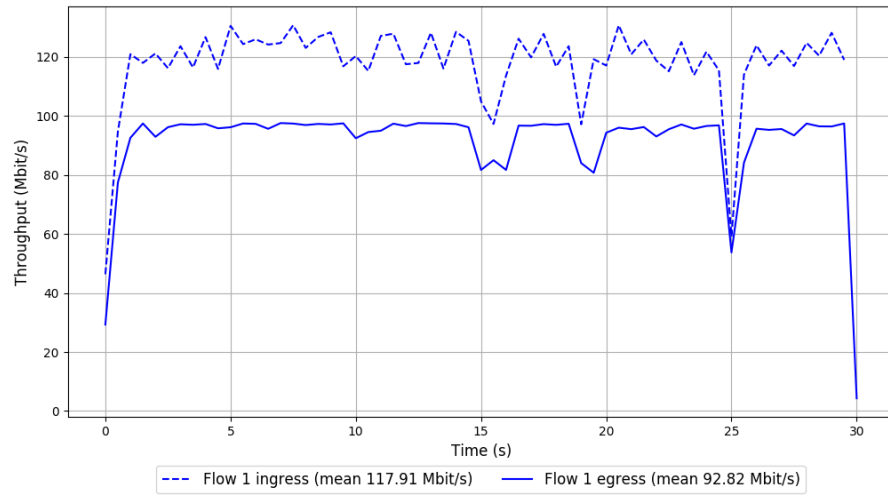
Run 8: Report of TCP BBR — Data Link

--- Flow 1 ingress (mean 121.56 Mbit/s)   —— Flow 1 egress (mean 94.02 Mbit/s)

• Flow 1 (95th percentile 66.45 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-01-26 03:18:27
End at: 2018-01-26 03:18:57
Local clock offset: 0.983 ms
Remote clock offset: -0.414 ms


# Below is generated by plot.py at 2018-01-26 10:04:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 67.526 ms
Loss rate: 22.41%
-- Flow 1:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 67.526 ms
Loss rate: 22.41%
```
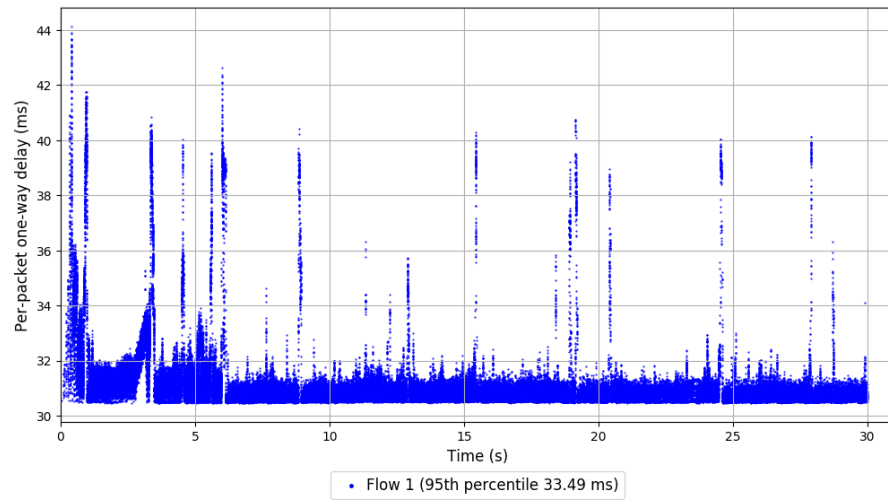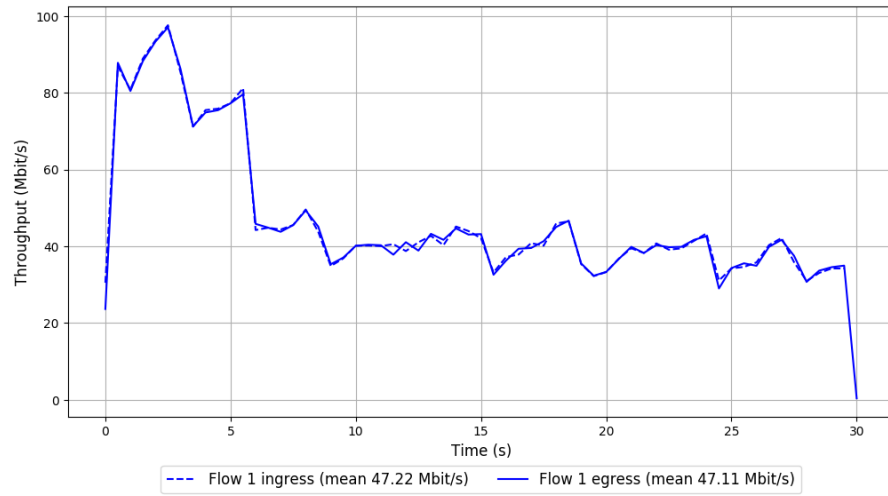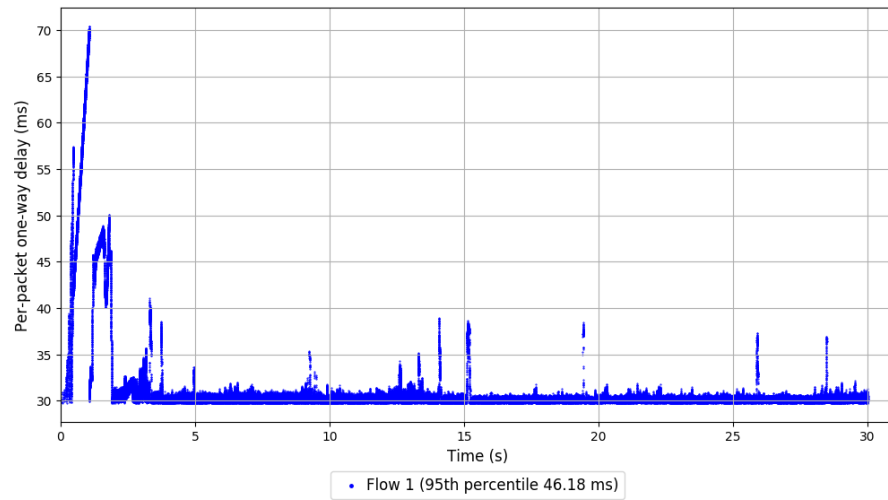
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 116.79 Mbit/s) --- Flow 1 egress (mean 90.55 Mbit/s)

• Flow 1 (95th percentile 67.53 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-01-26 03:40:38
End at: 2018-01-26 03:41:08
Local clock offset: 0.879 ms
Remote clock offset: -0.354 ms


# Below is generated by plot.py at 2018-01-26 10:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 68.558 ms
Loss rate: 21.28%
-- Flow 1:
Average throughput: 92.82 Mbit/s
95th percentile per-packet one-way delay: 68.558 ms
Loss rate: 21.28%
```
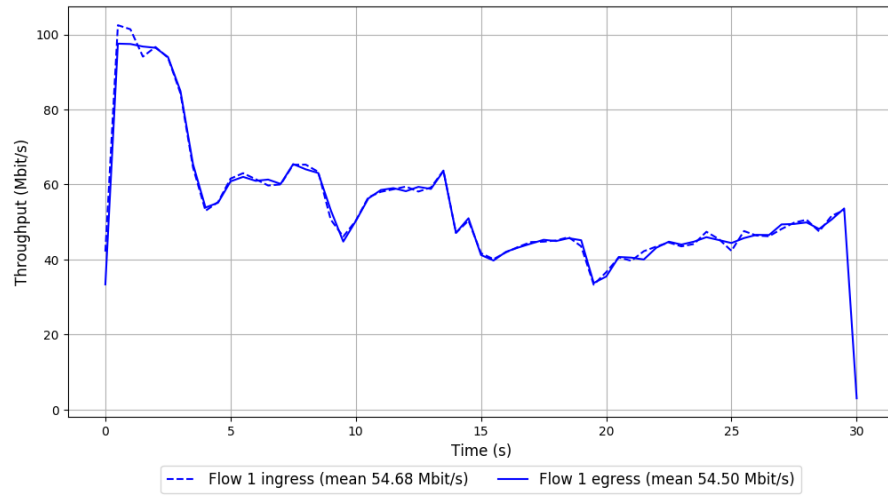
Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 117.91 Mbit/s) ——— Flow 1 egress (mean 92.82 Mbit/s)
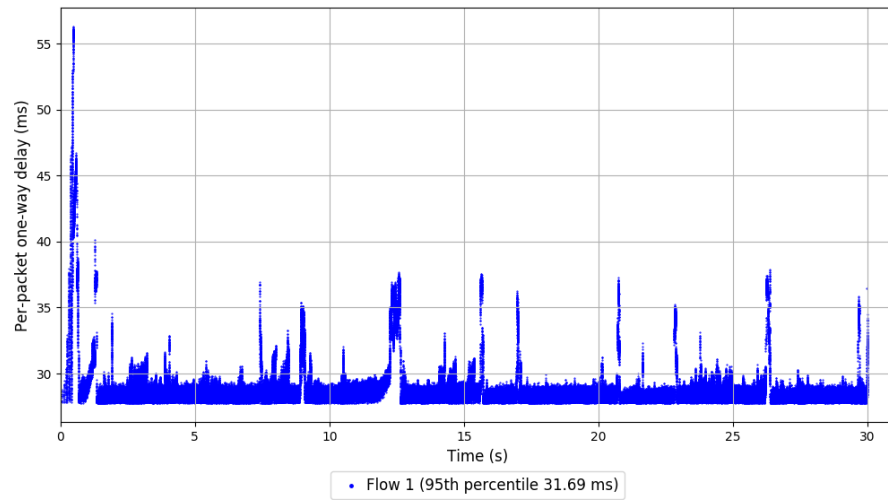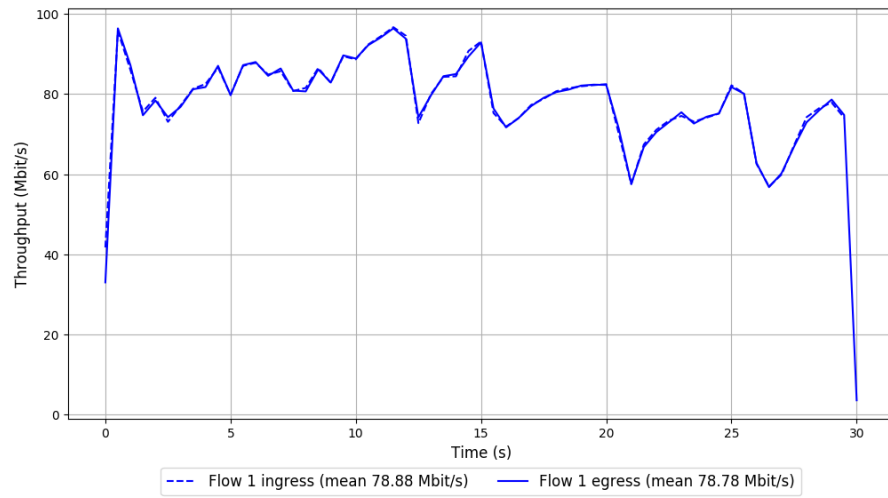

• Flow 1 (95th percentile 68.56 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 00:27:04
End at: 2018-01-26 00:27:34
Local clock offset: 0.96 ms
Remote clock offset: -1.079 ms


# Below is generated by plot.py at 2018-01-26 10:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.11 Mbit/s
95th percentile per-packet one-way delay: 33.495 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 47.11 Mbit/s
95th percentile per-packet one-way delay: 33.495 ms
Loss rate: 0.23%
```
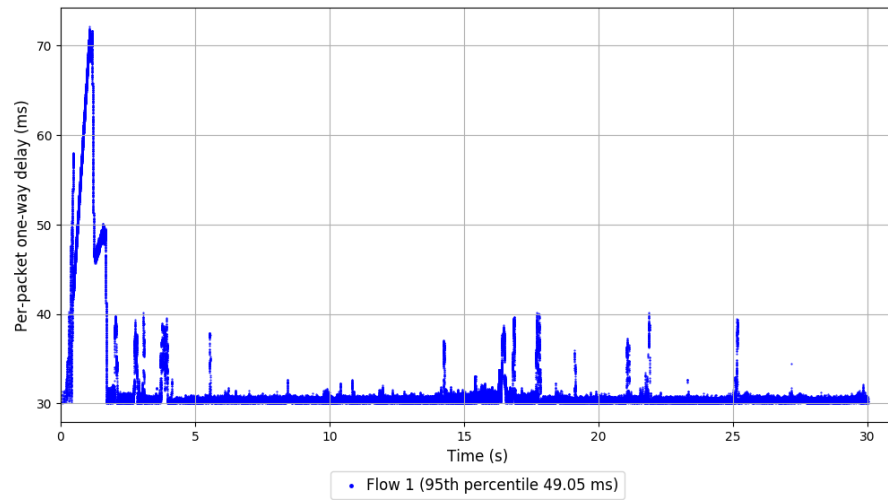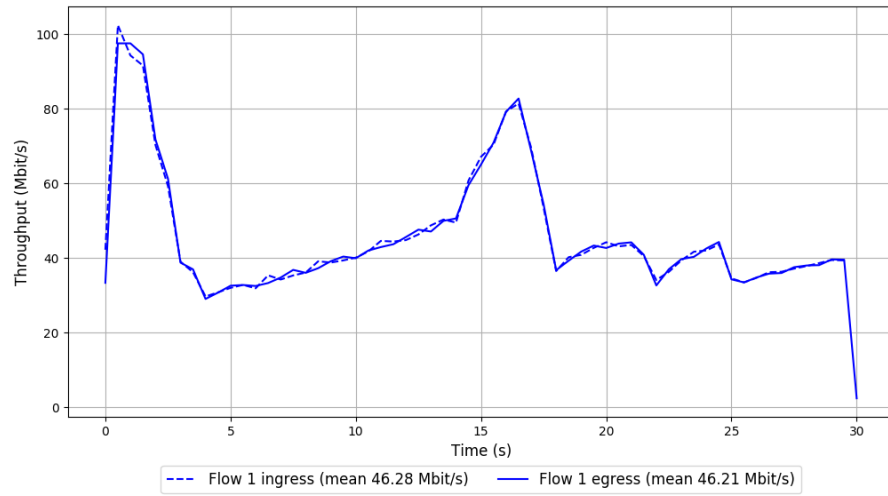
Run 1: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 47.22 Mbit/s)   Flow 1 egress (mean 47.11 Mbit/s)

Flow 1 (95th percentile 33.49 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 00:50:42
End at: 2018-01-26 00:51:12
Local clock offset: 1.024 ms
Remote clock offset: -1.474 ms


# Below is generated by plot.py at 2018-01-26 10:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 46.180 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 46.180 ms
Loss rate: 0.34%
```
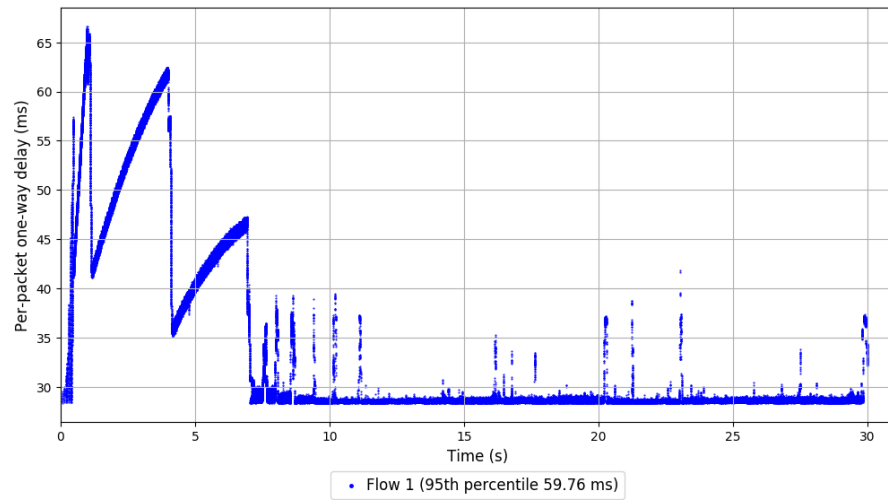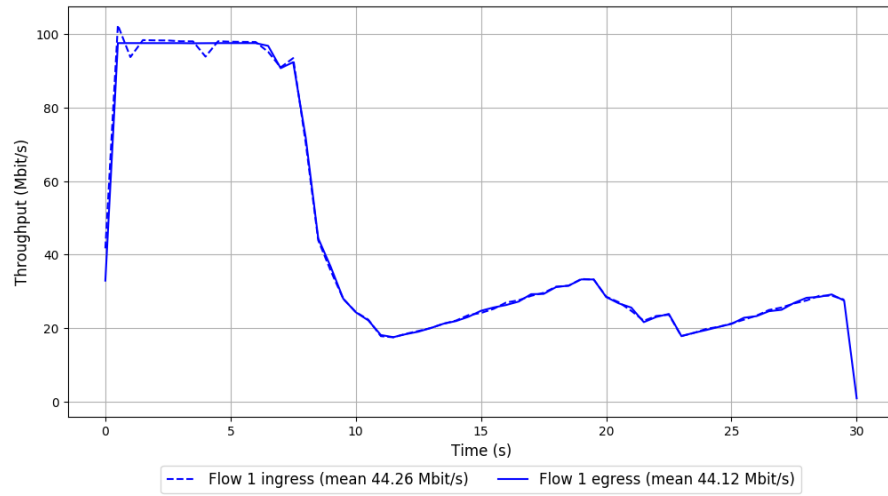
Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 54.68 Mbit/s)   Flow 1 egress (mean 54.50 Mbit/s)

Flow 1 (95th percentile 46.18 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 01:14:05
End at: 2018-01-26 01:14:35
Local clock offset: 1.153 ms
Remote clock offset: -3.733 ms


# Below is generated by plot.py at 2018-01-26 10:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.78 Mbit/s
95th percentile per-packet one-way delay: 31.688 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 78.78 Mbit/s
95th percentile per-packet one-way delay: 31.688 ms
Loss rate: 0.12%
```

Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 78.88 Mbit/s)   Flow 1 egress (mean 78.78 Mbit/s)

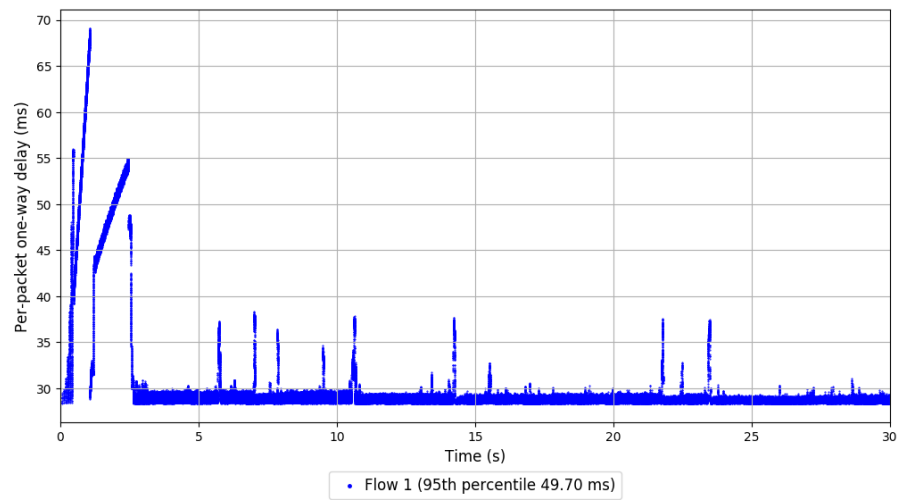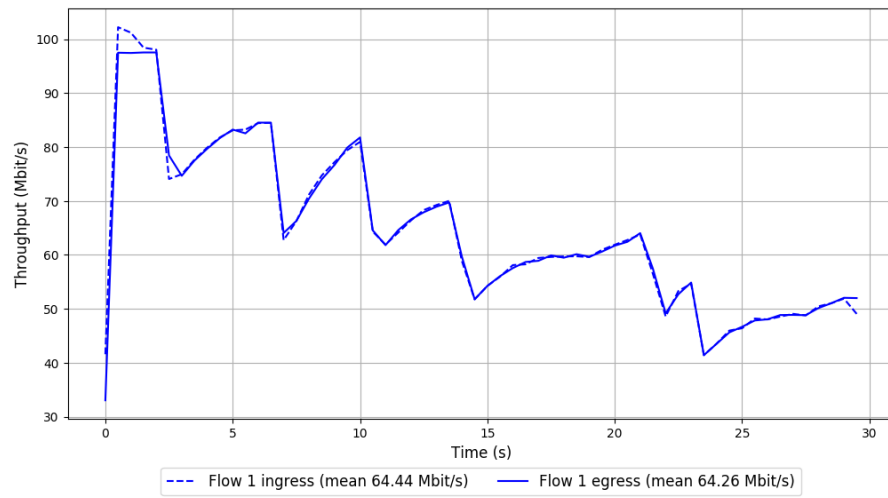Flow 1 (95th percentile 31.69 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 01:37:48
End at: 2018-01-26 01:38:18
Local clock offset: 1.332 ms
Remote clock offset: -1.695 ms


# Below is generated by plot.py at 2018-01-26 10:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.21 Mbit/s
95th percentile per-packet one-way delay: 49.049 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 46.21 Mbit/s
95th percentile per-packet one-way delay: 49.049 ms
Loss rate: 0.15%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 46.28 Mbit/s)   Flow 1 egress (mean 46.21 Mbit/s)

Flow 1 (95th percentile 49.05 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 01:59:27
End at: 2018-01-26 01:59:57
Local clock offset: 1.416 ms
Remote clock offset: -4.424 ms


# Below is generated by plot.py at 2018-01-26 10:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.12 Mbit/s
95th percentile per-packet one-way delay: 59.758 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 44.12 Mbit/s
95th percentile per-packet one-way delay: 59.758 ms
Loss rate: 0.29%
```
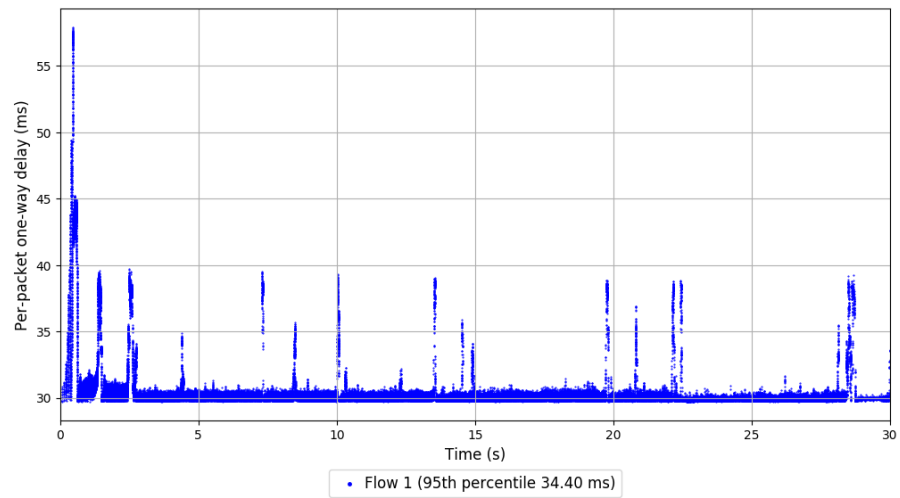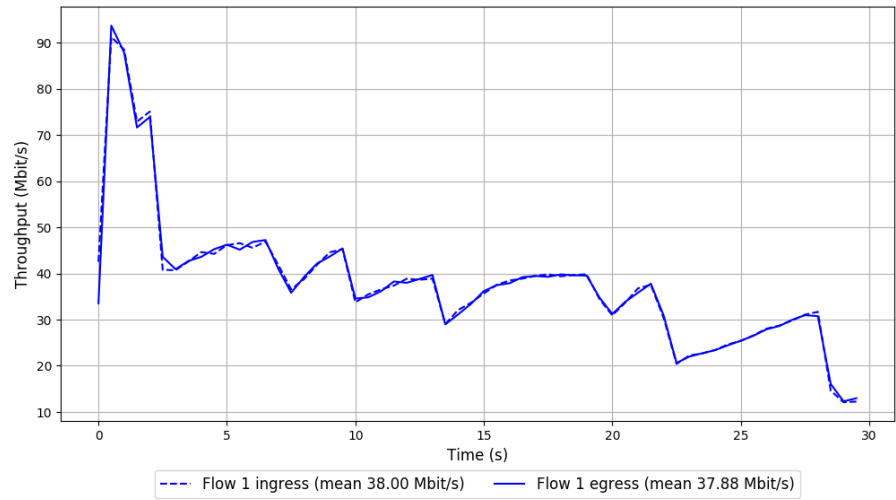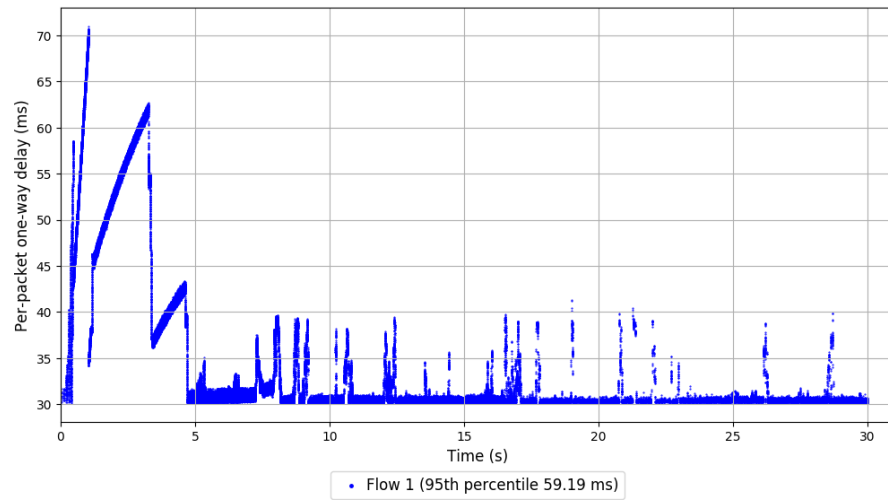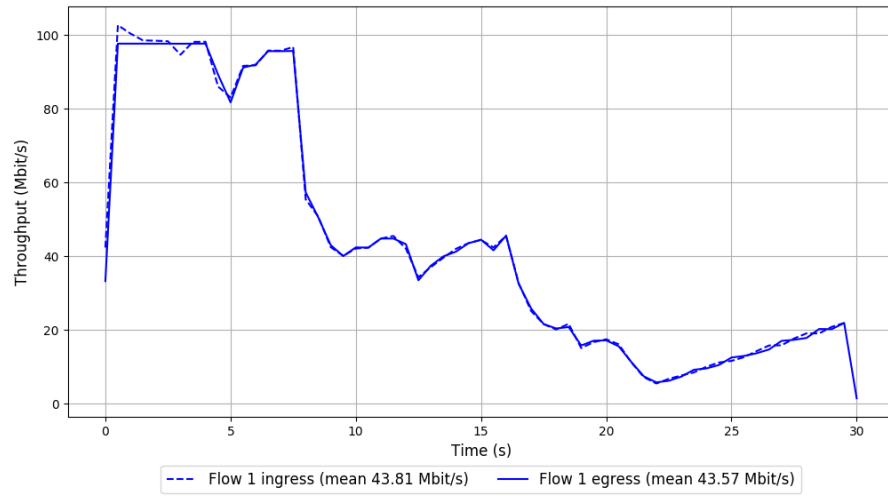
Run 5: Report of TCP Cubic — Data Link

```
Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 02:20:49
End at: 2018-01-26 02:21:19
Local clock offset: 1.388 ms
Remote clock offset: -3.951 ms


# Below is generated by plot.py at 2018-01-26 10:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.26 Mbit/s
95th percentile per-packet one-way delay: 49.704 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 64.26 Mbit/s
95th percentile per-packet one-way delay: 49.704 ms
Loss rate: 0.29%
```
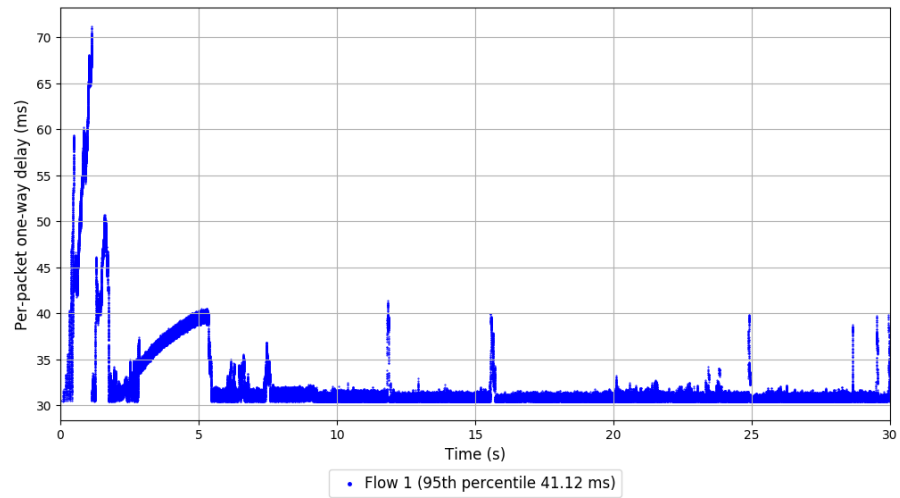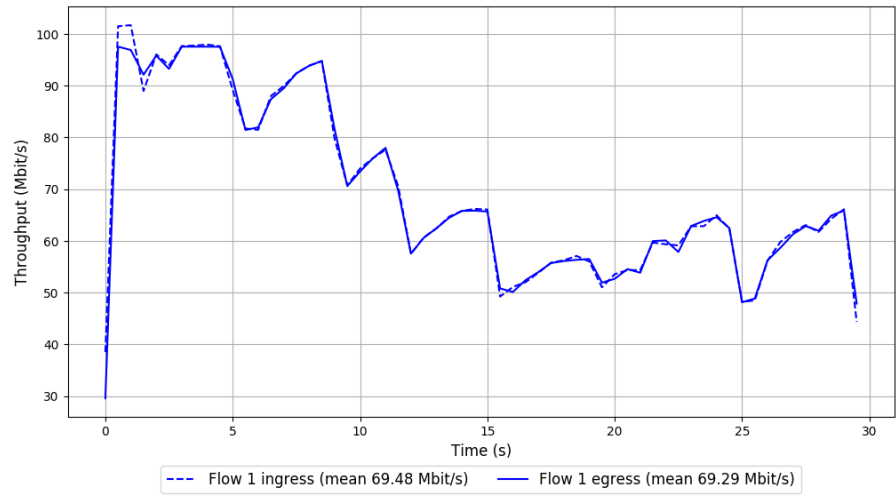
Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 02:42:52
End at: 2018-01-26 02:43:22
Local clock offset: 1.307 ms
Remote clock offset: -1.09 ms


# Below is generated by plot.py at 2018-01-26 10:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.88 Mbit/s
95th percentile per-packet one-way delay: 34.395 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 37.88 Mbit/s
95th percentile per-packet one-way delay: 34.395 ms
Loss rate: 0.31%
```

Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 38.00 Mbit/s) ----   Flow 1 egress (mean 37.88 Mbit/s) ——

Flow 1 (95th percentile 34.40 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 03:04:44
End at: 2018-01-26 03:05:14
Local clock offset: 1.226 ms
Remote clock offset: -0.237 ms


# Below is generated by plot.py at 2018-01-26 10:04:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.57 Mbit/s
95th percentile per-packet one-way delay: 59.194 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 43.57 Mbit/s
95th percentile per-packet one-way delay: 59.194 ms
Loss rate: 0.56%
```
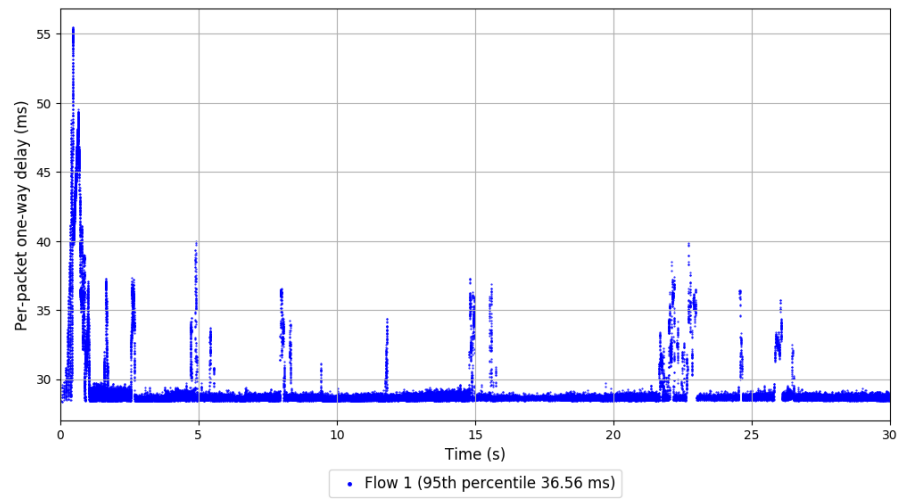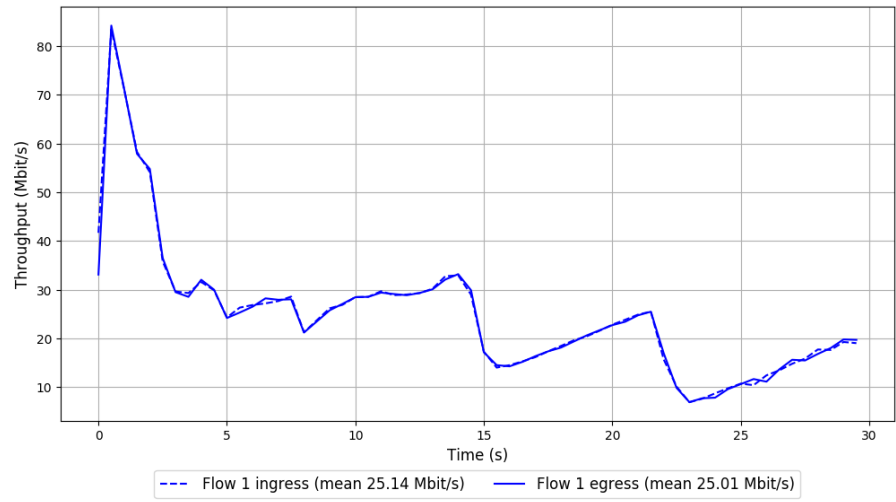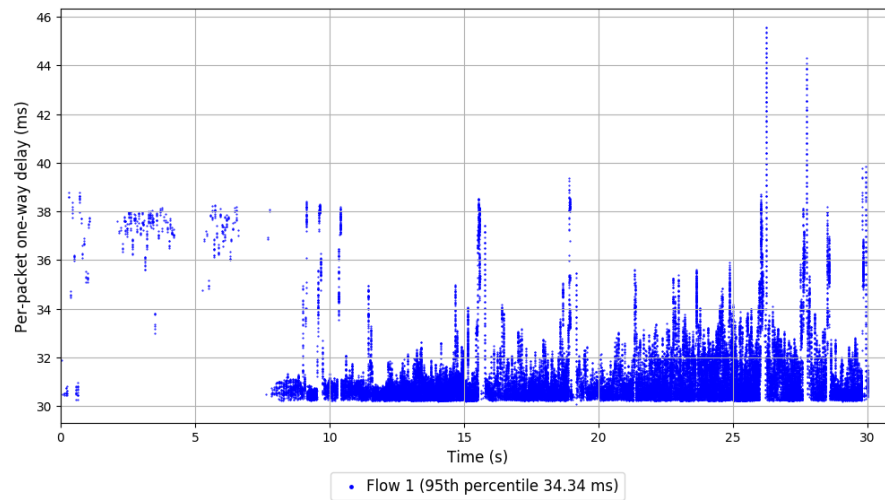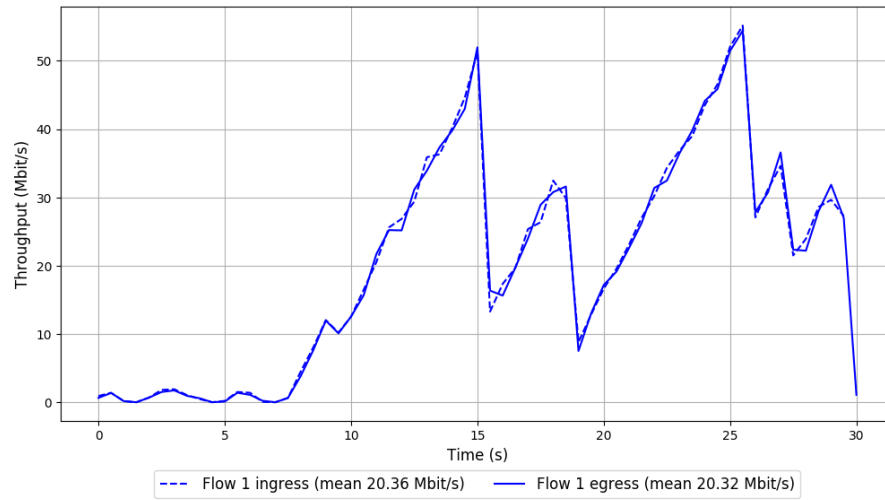
Run 8: Report of TCP Cubic — Data Link

```
Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 03:26:37
End at: 2018-01-26 03:27:07
Local clock offset: 1.025 ms
Remote clock offset: -0.421 ms


# Below is generated by plot.py at 2018-01-26 10:04:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.29 Mbit/s
95th percentile per-packet one-way delay: 41.123 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 69.29 Mbit/s
95th percentile per-packet one-way delay: 41.123 ms
Loss rate: 0.28%
```
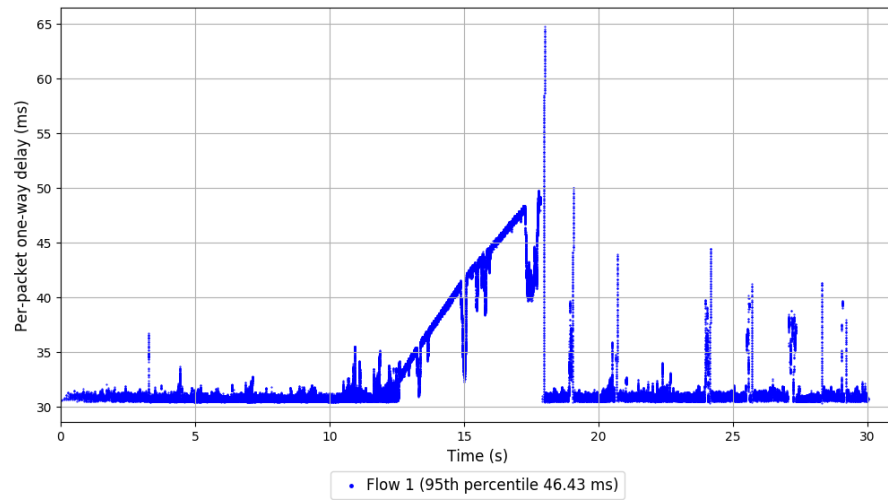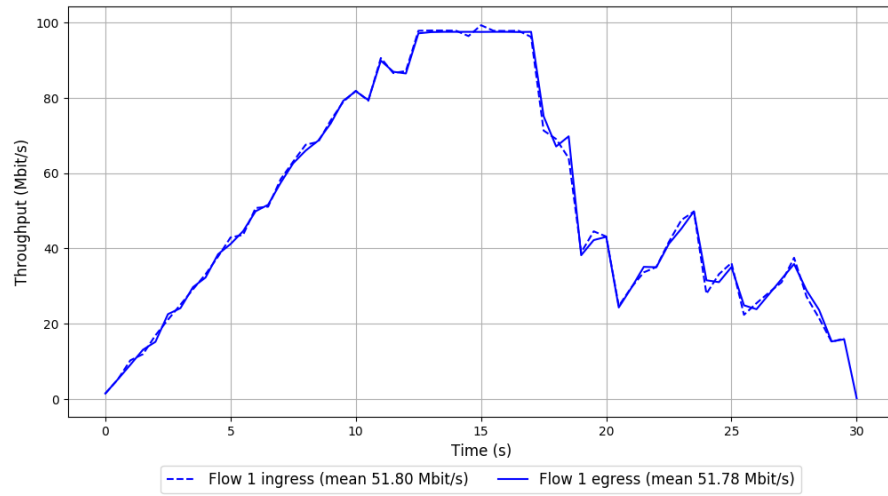
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 69.48 Mbit/s)   Flow 1 egress (mean 69.29 Mbit/s)

Flow 1 (95th percentile 41.12 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 03:49:04
End at: 2018-01-26 03:49:34
Local clock offset: 0.867 ms
Remote clock offset: -2.399 ms


# Below is generated by plot.py at 2018-01-26 10:04:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 36.560 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 25.01 Mbit/s
95th percentile per-packet one-way delay: 36.560 ms
Loss rate: 0.51%
```

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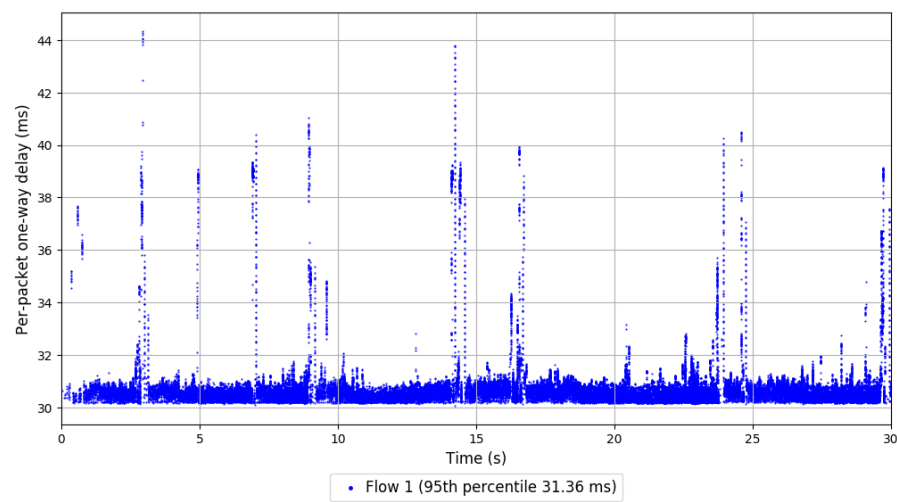
```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 00:29:45
End at: 2018-01-26 00:30:15
Local clock offset: 0.982 ms
Remote clock offset: -0.645 ms

# Below is generated by plot.py at 2018-01-26 10:04:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.32 Mbit/s
95th percentile per-packet one-way delay: 34.345 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 20.32 Mbit/s
95th percentile per-packet one-way delay: 34.345 ms
Loss rate: 0.19%
```

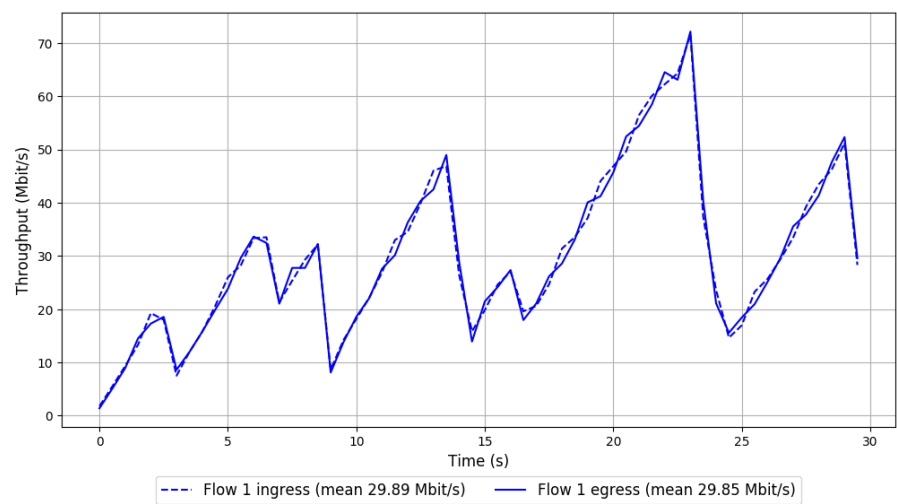Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2018-01-26 00:53:28
End at: 2018-01-26 00:53:58
Local clock offset: 1.135 ms
Remote clock offset: -1.398 ms


# Below is generated by plot.py at 2018-01-26 10:05:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 46.433 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 46.433 ms
Loss rate: 0.04%
```

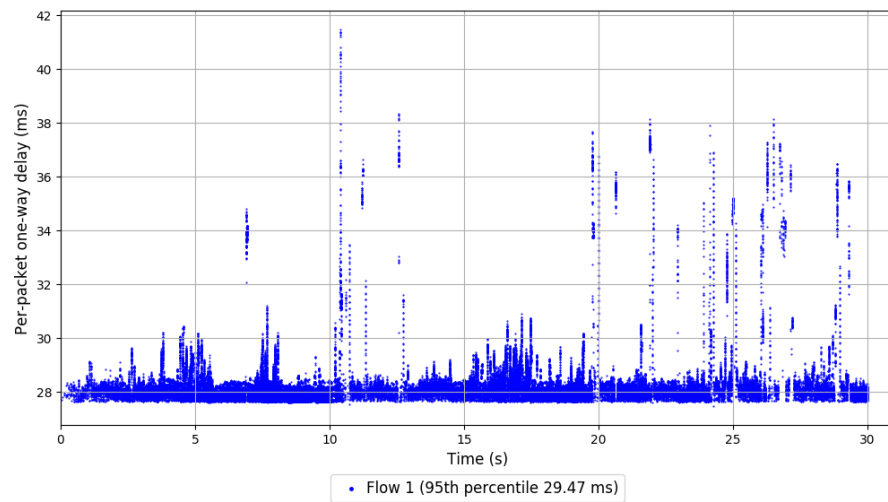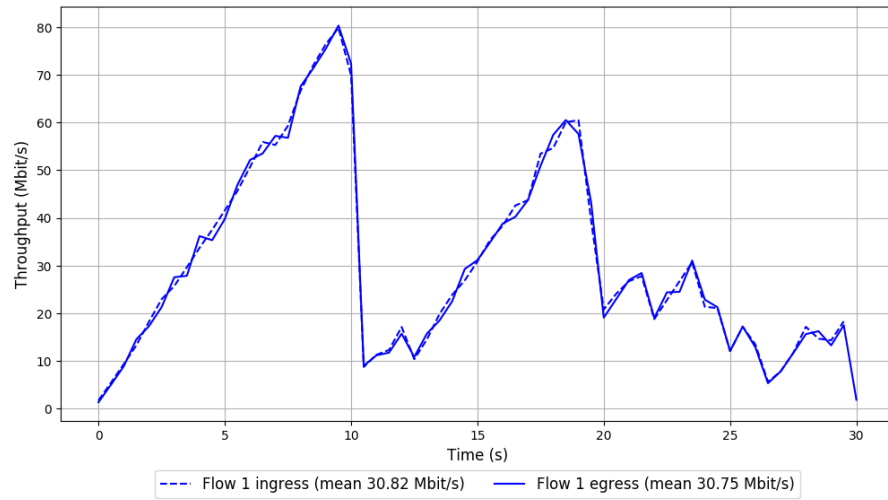Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 51.80 Mbit/s)   Flow 1 egress (mean 51.78 Mbit/s)

• Flow 1 (95th percentile 46.43 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2018-01-26 01:16:55
End at: 2018-01-26 01:17:25
Local clock offset: 1.225 ms
Remote clock offset: -1.632 ms
```
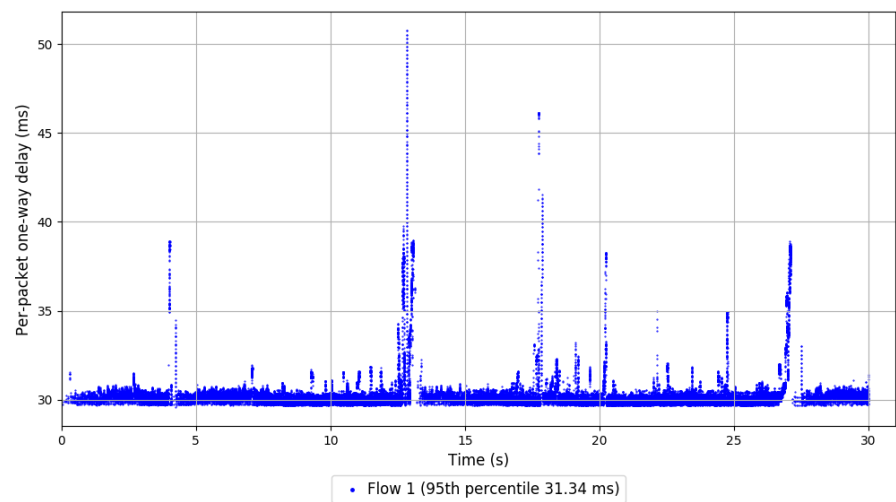
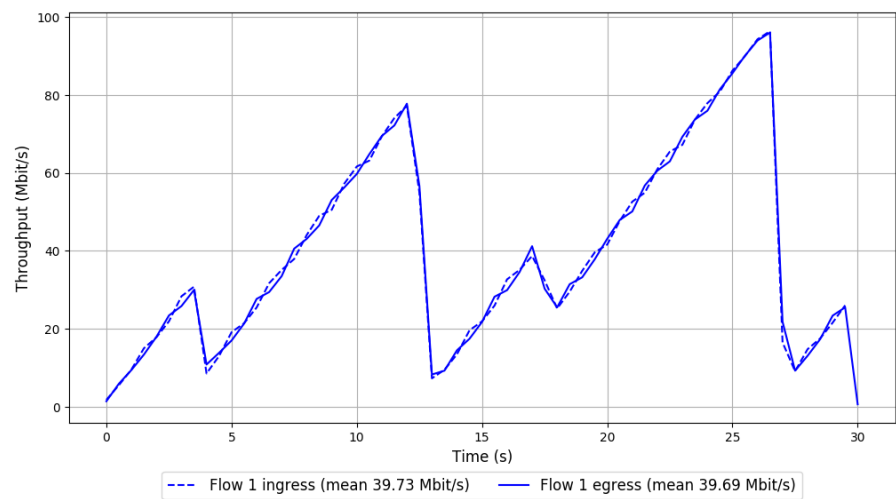# Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2018-01-26 01:40:27
End at: 2018-01-26 01:40:57
Local clock offset: 1.435 ms
Remote clock offset: -1.579 ms


# Below is generated by plot.py at 2018-01-26 10:05:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 31.364 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 31.364 ms
Loss rate: 0.14%
```
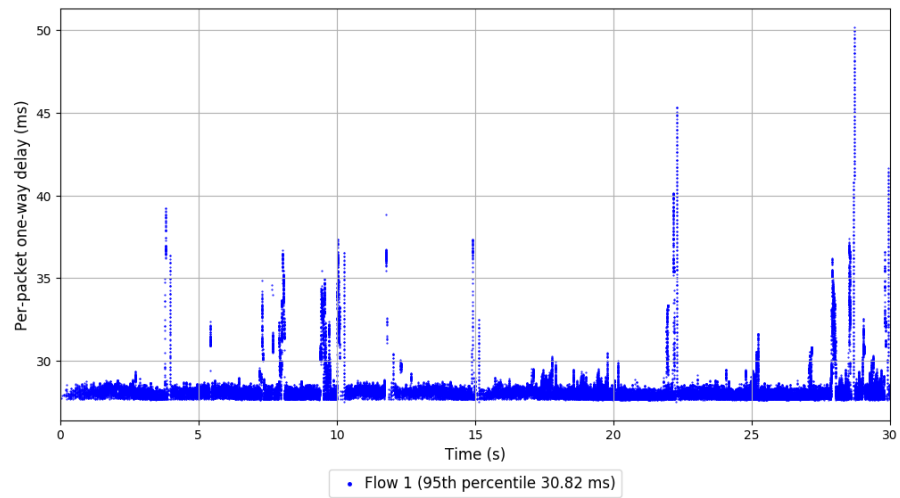
Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 29.89 Mbit/s)   Flow 1 egress (mean 29.85 Mbit/s)
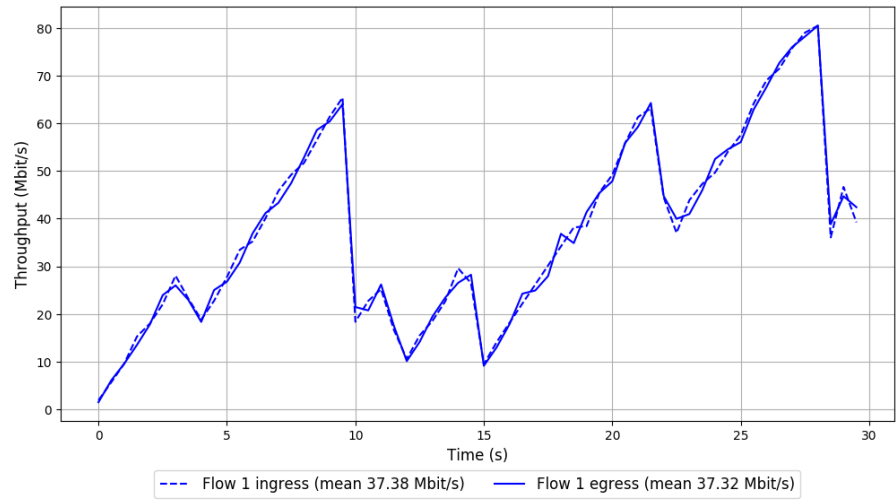

Flow 1 (95th percentile 31.36 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2018-01-26 02:02:03
End at: 2018-01-26 02:02:33
Local clock offset: 1.337 ms
Remote clock offset: -4.526 ms


# Below is generated by plot.py at 2018-01-26 10:05:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 29.471 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 29.471 ms
Loss rate: 0.23%
```
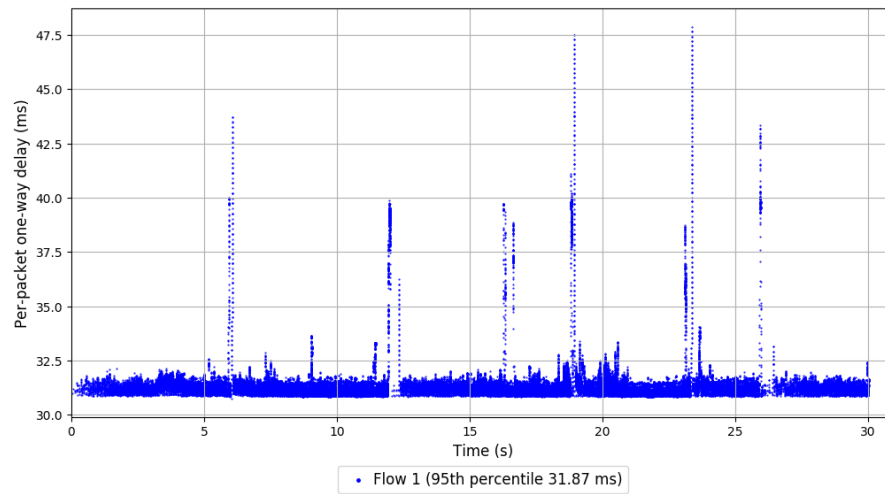
Run 5: Report of LEDBAT — Data Link

```
Run 6: Statistics of LEDBAT

Start at: 2018-01-26 02:23:25
End at: 2018-01-26 02:23:55
Local clock offset: 1.378 ms
Remote clock offset: -1.845 ms


# Below is generated by plot.py at 2018-01-26 10:05:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 31.335 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 31.335 ms
Loss rate: 0.11%
```

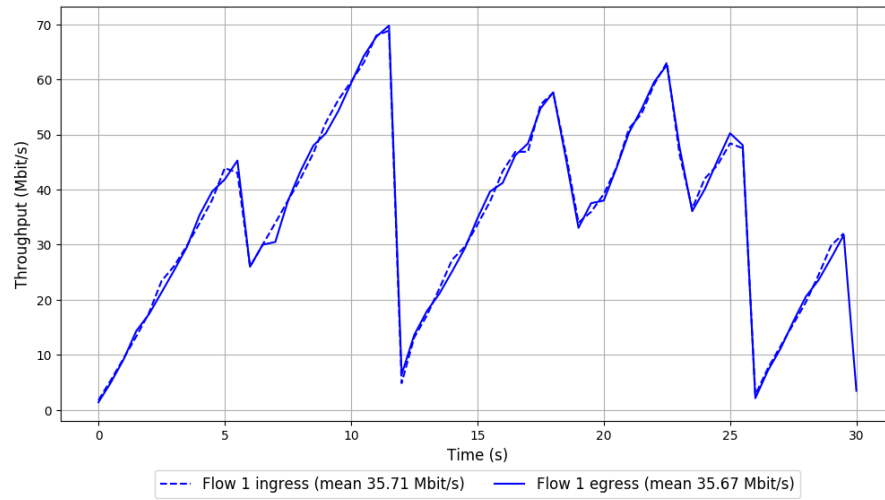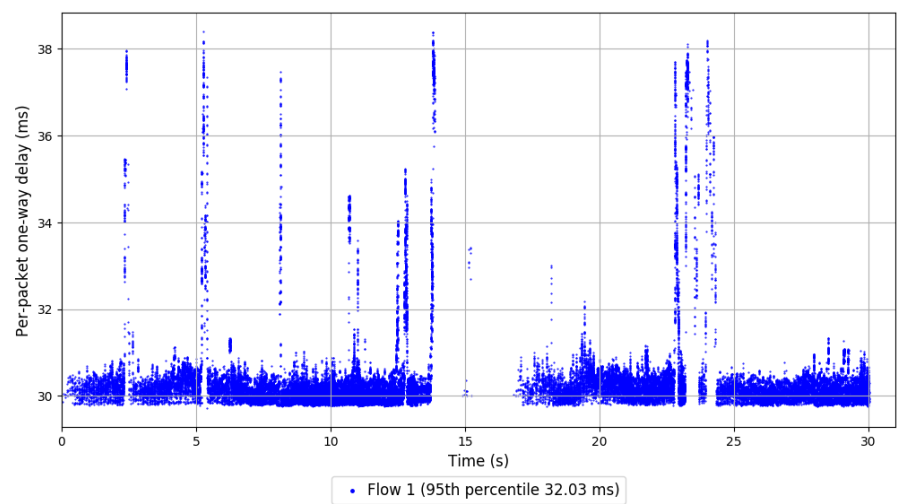## Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 39.73 Mbit/s)   Flow 1 egress (mean 39.69 Mbit/s)

Flow 1 (95th percentile 31.34 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2018-01-26 02:45:30
End at: 2018-01-26 02:46:00
Local clock offset: 1.309 ms
Remote clock offset: -3.095 ms


# Below is generated by plot.py at 2018-01-26 10:05:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.32 Mbit/s
95th percentile per-packet one-way delay: 30.816 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 37.32 Mbit/s
95th percentile per-packet one-way delay: 30.816 ms
Loss rate: 0.16%
```

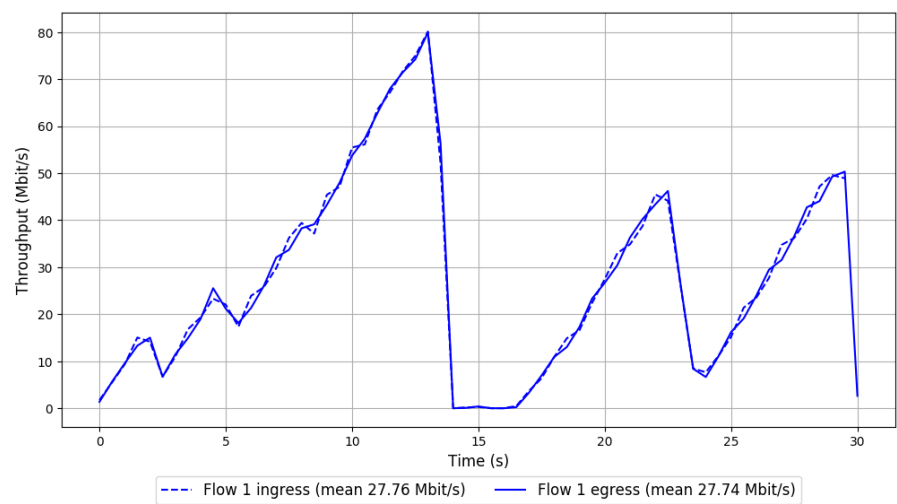Run 7: Report of LEDBAT — Data Link

```
Run 8: Statistics of LEDBAT

Start at: 2018-01-26 03:07:20
End at: 2018-01-26 03:07:50
Local clock offset: 1.106 ms
Remote clock offset: -0.211 ms


# Below is generated by plot.py at 2018-01-26 10:05:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 31.868 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 35.67 Mbit/s
95th percentile per-packet one-way delay: 31.868 ms
Loss rate: 0.10%
```
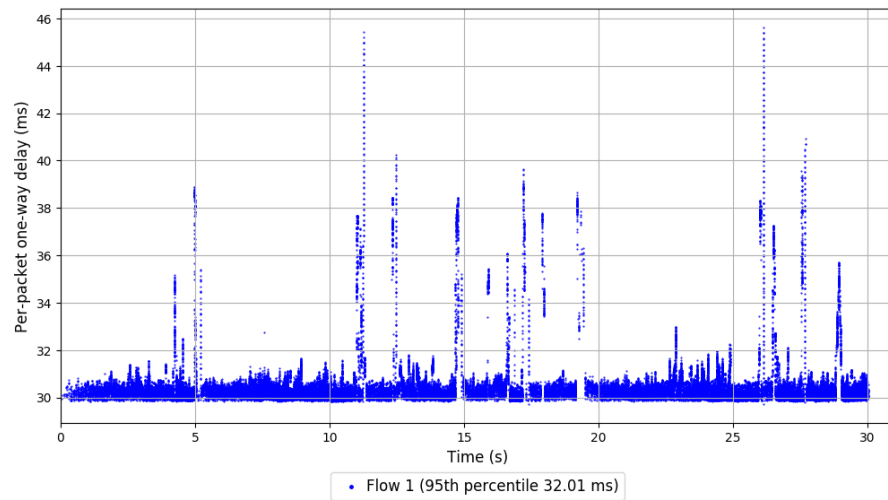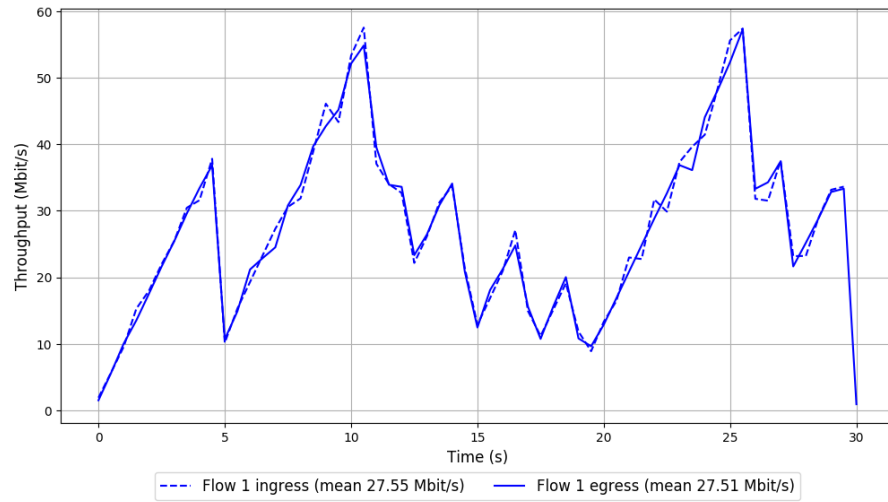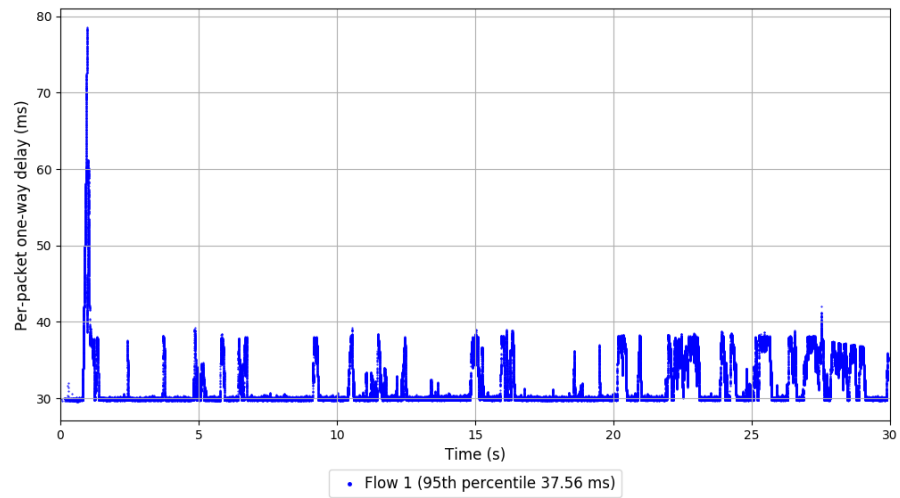
Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 35.71 Mbit/s) ---- Flow 1 egress (mean 35.67 Mbit/s)

• Flow 1 (95th percentile 31.87 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2018-01-26 03:29:18
End at: 2018-01-26 03:29:49
Local clock offset: 0.932 ms
Remote clock offset: -0.446 ms


# Below is generated by plot.py at 2018-01-26 10:05:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.74 Mbit/s
95th percentile per-packet one-way delay: 32.027 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 27.74 Mbit/s
95th percentile per-packet one-way delay: 32.027 ms
Loss rate: 0.09%
```

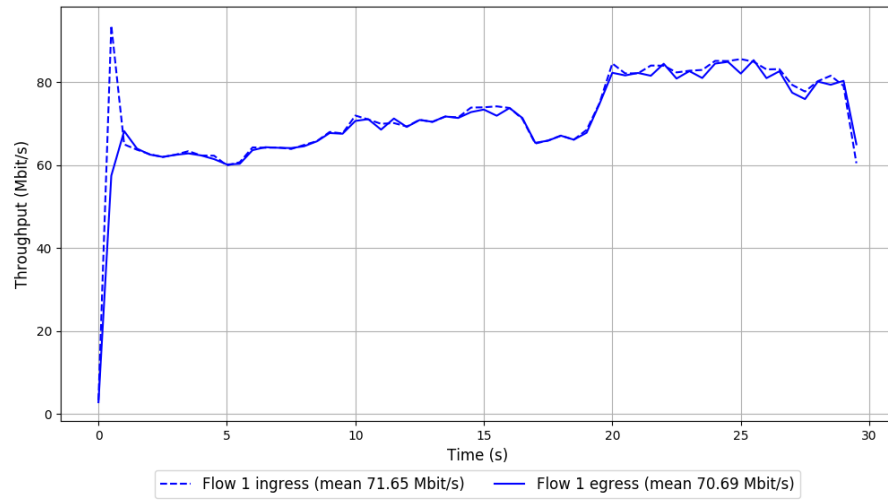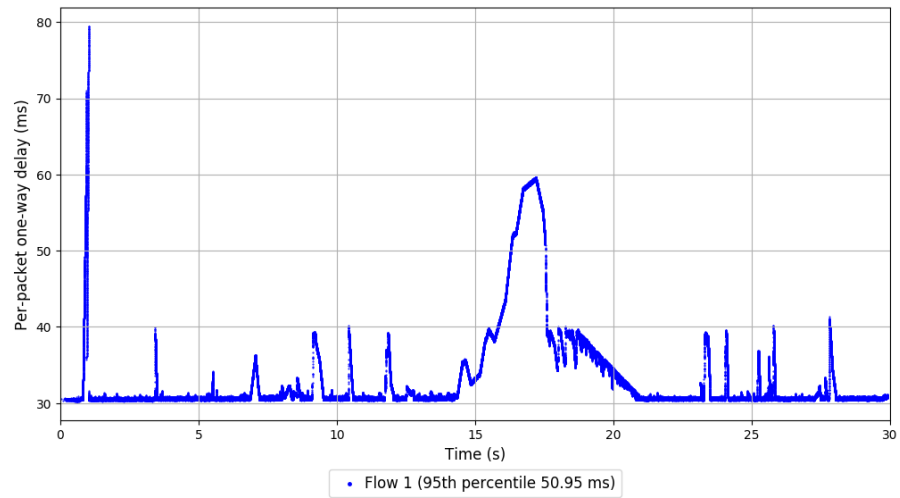Run 9: Report of LEDBAT — Data Link

```
Run 10: Statistics of LEDBAT

Start at: 2018-01-26 03:51:42
End at: 2018-01-26 03:52:12
Local clock offset: 0.876 ms
Remote clock offset: -0.312 ms


# Below is generated by plot.py at 2018-01-26 10:05:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.51 Mbit/s
95th percentile per-packet one-way delay: 32.005 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 27.51 Mbit/s
95th percentile per-packet one-way delay: 32.005 ms
Loss rate: 0.14%
```

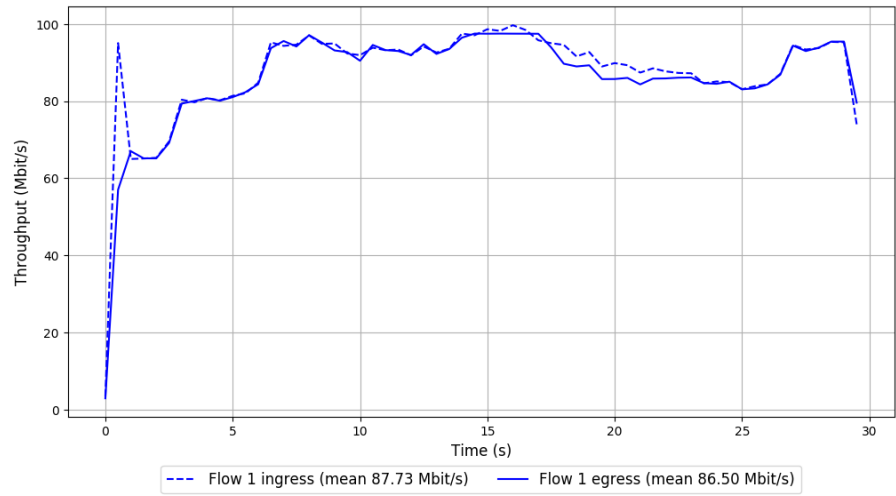Run 10: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC

Start at: 2018-01-26 00:31:08
End at: 2018-01-26 00:31:38
Local clock offset: 0.999 ms
Remote clock offset: -1.148 ms


# Below is generated by plot.py at 2018-01-26 10:06:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 37.557 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 70.69 Mbit/s
95th percentile per-packet one-way delay: 37.557 ms
Loss rate: 1.33%
```
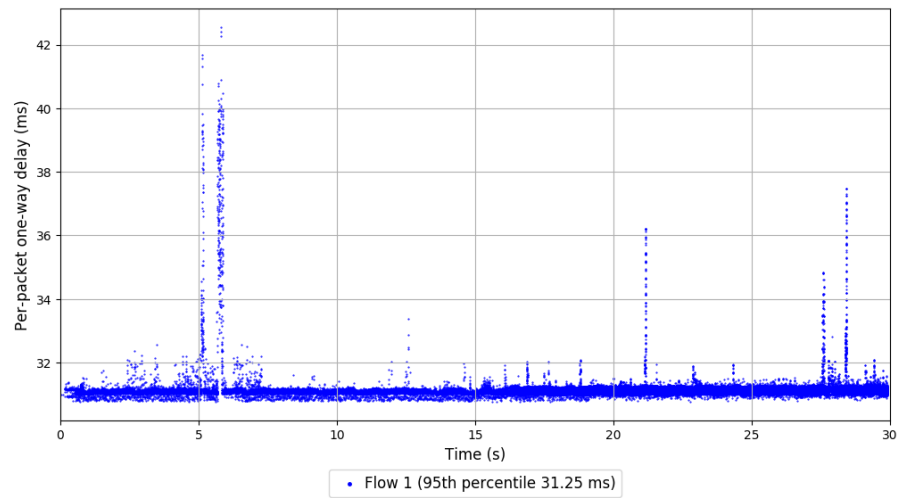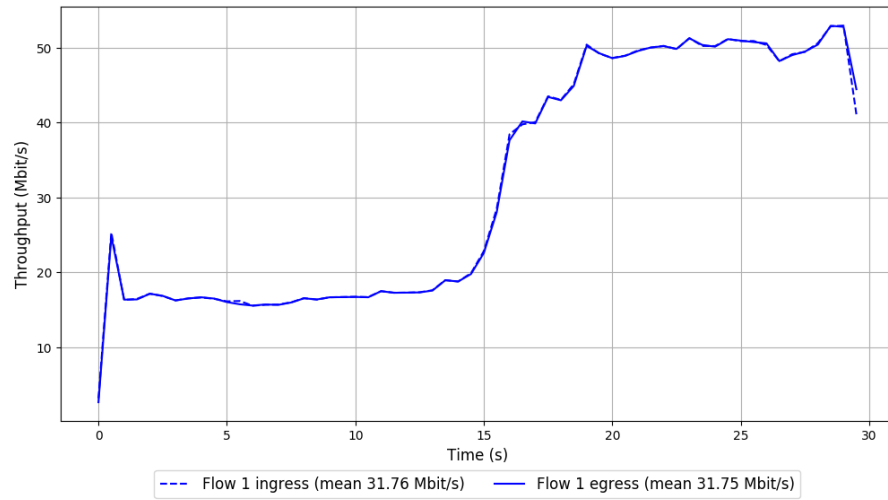
Run 1: Report of PCC — Data Link

```
Run 2: Statistics of PCC

Start at: 2018-01-26 00:54:54
End at: 2018-01-26 00:55:24
Local clock offset: 1.148 ms
Remote clock offset: -1.511 ms


# Below is generated by plot.py at 2018-01-26 10:06:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 50.952 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 86.50 Mbit/s
95th percentile per-packet one-way delay: 50.952 ms
Loss rate: 1.39%
```
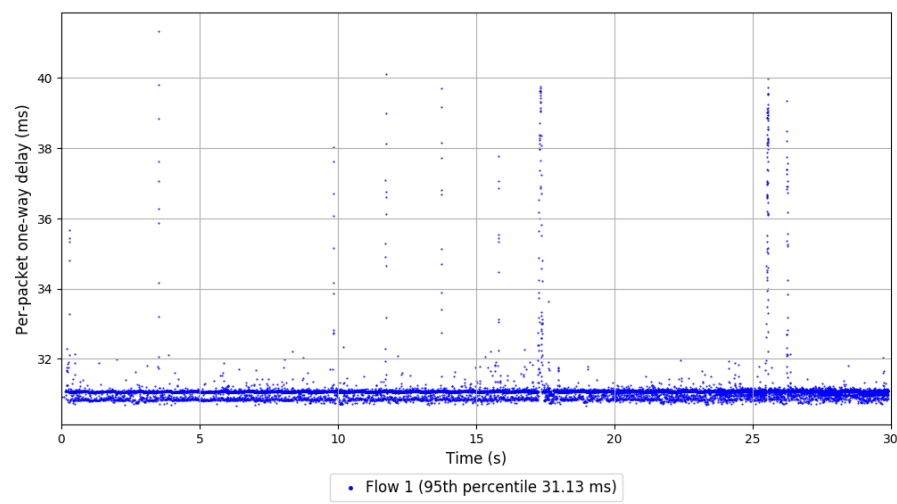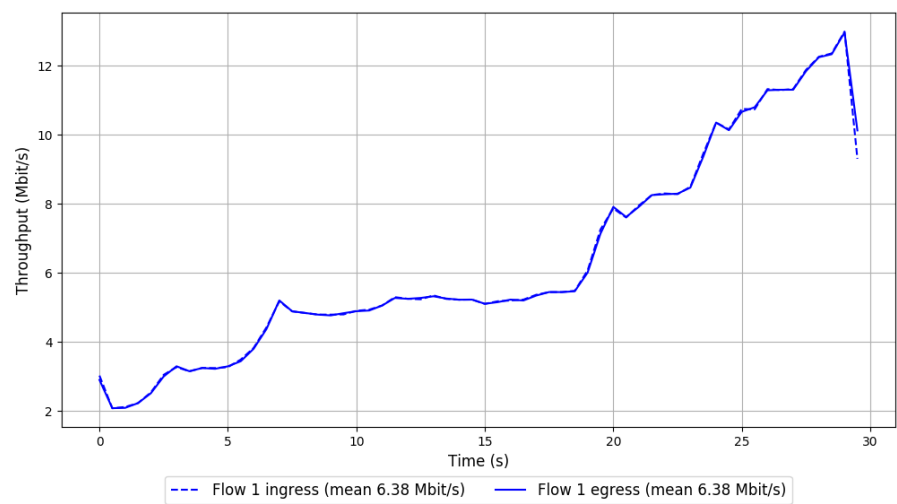
Run 2: Report of PCC — Data Link

Flow 1 ingress (mean 87.73 Mbit/s)   Flow 1 egress (mean 86.50 Mbit/s)

Flow 1 (95th percentile 50.95 ms)

```
Run 3: Statistics of PCC

Start at: 2018-01-26 01:18:13
End at: 2018-01-26 01:18:43
Local clock offset: 1.203 ms
Remote clock offset: -1.204 ms


# Below is generated by plot.py at 2018-01-26 10:06:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 31.246 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 31.246 ms
Loss rate: 0.03%
```
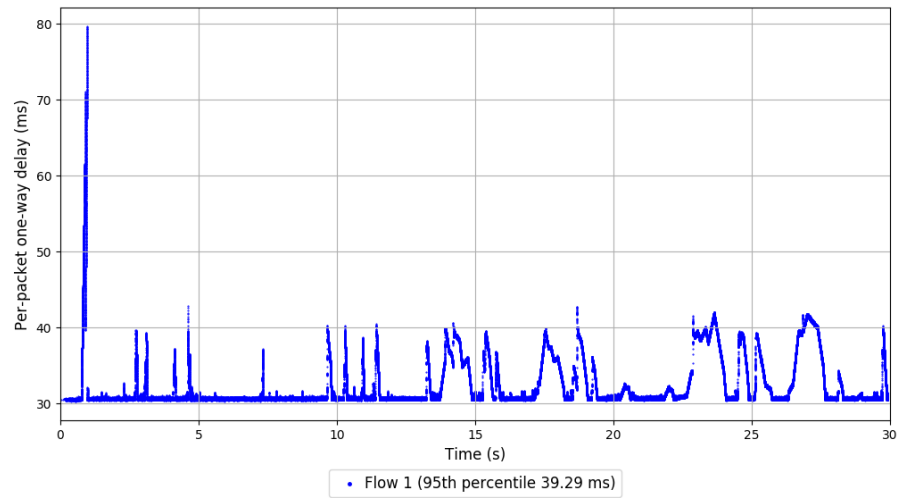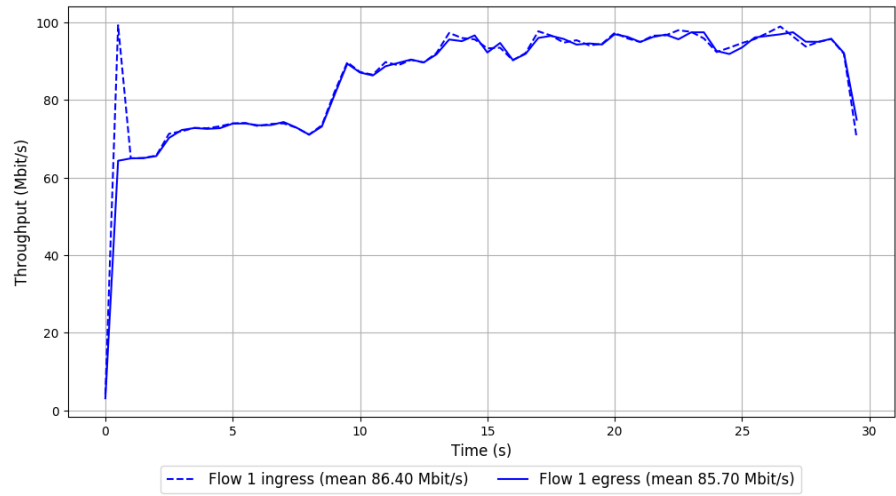
Run 3: Report of PCC — Data Link

Flow 1 ingress (mean 31.76 Mbit/s) —— Flow 1 egress (mean 31.75 Mbit/s)

• Flow 1 (95th percentile 31.25 ms)

```
Run 4: Statistics of PCC

Start at: 2018-01-26 01:41:47
End at: 2018-01-26 01:42:17
Local clock offset: 1.355 ms
Remote clock offset: -1.652 ms


# Below is generated by plot.py at 2018-01-26 10:06:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 31.127 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 31.127 ms
Loss rate: 0.01%
```
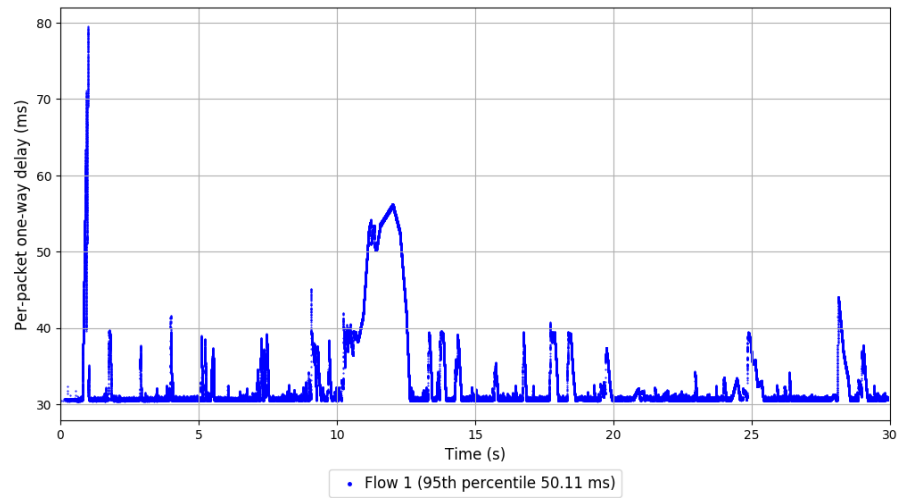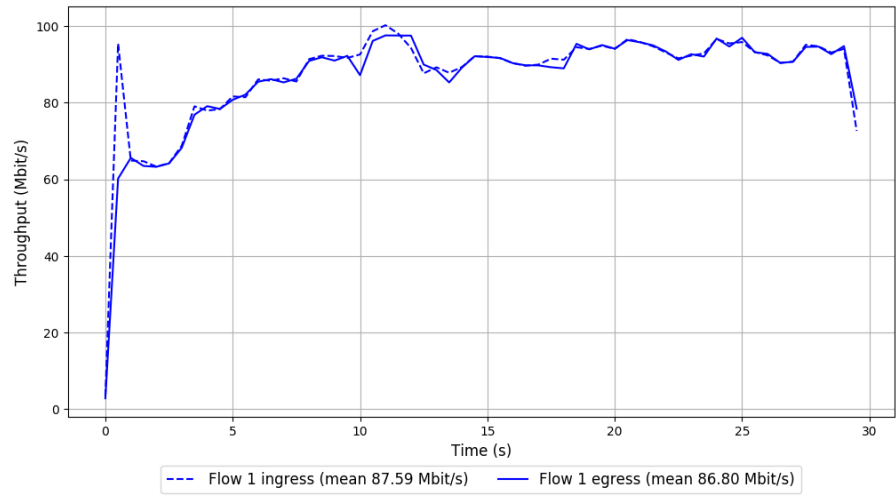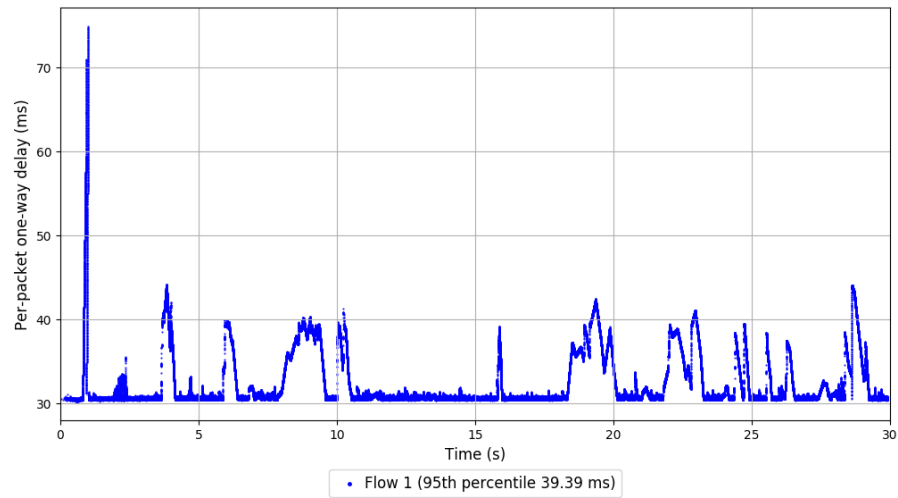
Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 6.38 Mbit/s) --- Flow 1 egress (mean 6.38 Mbit/s)

Flow 1 (95th percentile 31.13 ms)

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```
Run 5: Statistics of PCC

Start at: 2018-01-26 02:03:22
End at: 2018-01-26 02:03:52
Local clock offset: 1.374 ms
Remote clock offset: -2.382 ms


# Below is generated by plot.py at 2018-01-26 10:06:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 39.287 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 39.287 ms
Loss rate: 0.80%
```
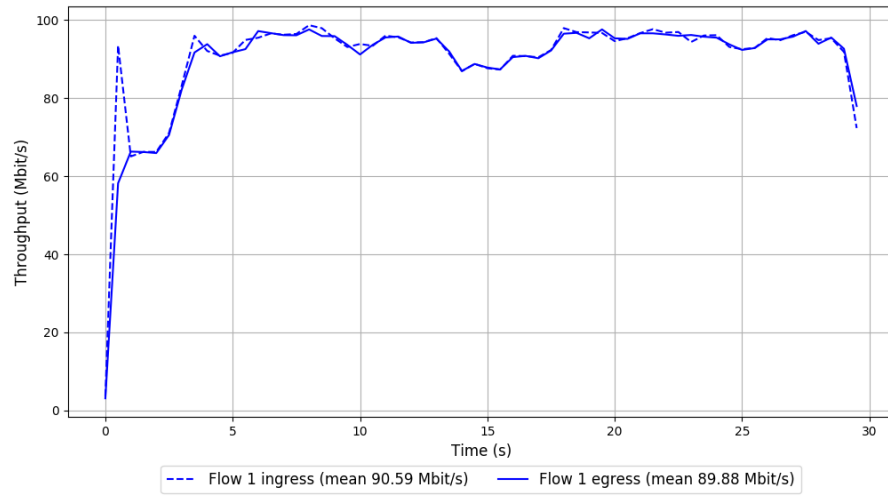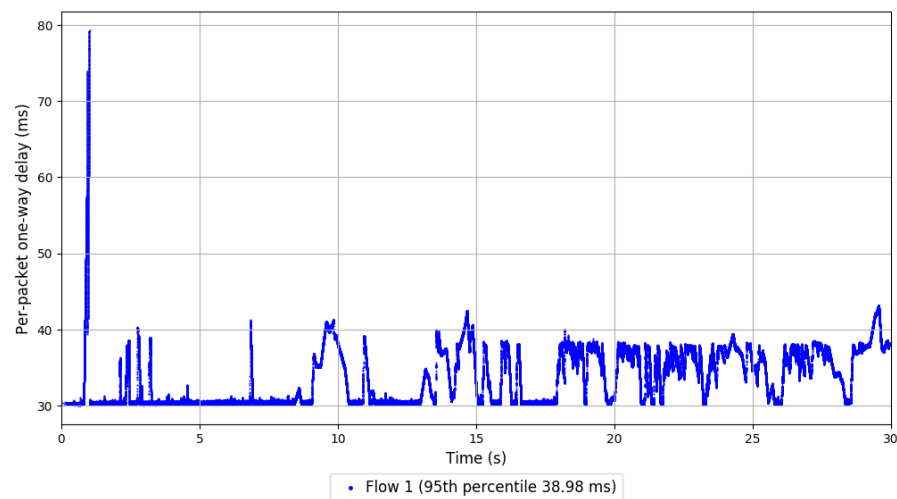
Run 5: Report of PCC — Data Link

```
Run 6: Statistics of PCC

Start at: 2018-01-26 02:24:43
End at: 2018-01-26 02:25:13
Local clock offset: 1.268 ms
Remote clock offset: -1.821 ms


# Below is generated by plot.py at 2018-01-26 10:06:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 50.107 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 50.107 ms
Loss rate: 0.90%
```
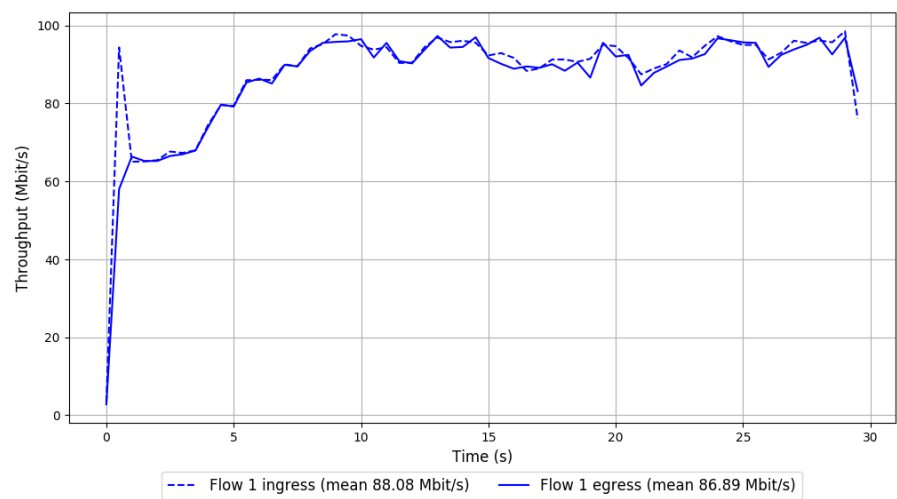
Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 87.59 Mbit/s)   Flow 1 egress (mean 86.80 Mbit/s)
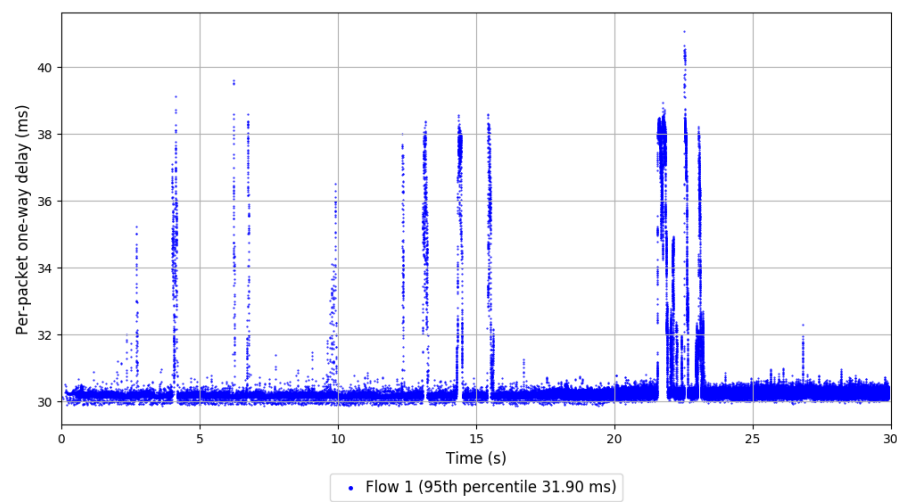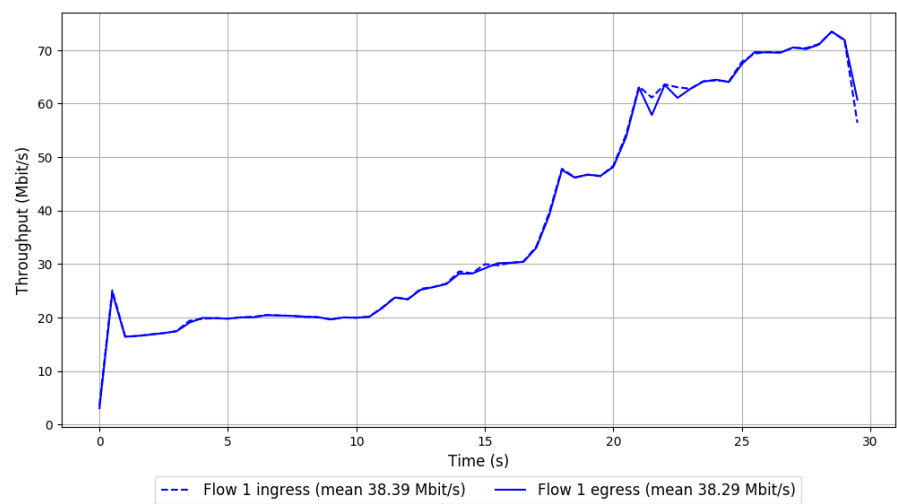

Flow 1 (95th percentile 50.11 ms)

```
Run 7: Statistics of PCC

Start at: 2018-01-26 02:46:50
End at: 2018-01-26 02:47:20
Local clock offset: 1.282 ms
Remote clock offset: -0.974 ms


# Below is generated by plot.py at 2018-01-26 10:06:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: 39.387 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: 39.387 ms
Loss rate: 0.78%
```
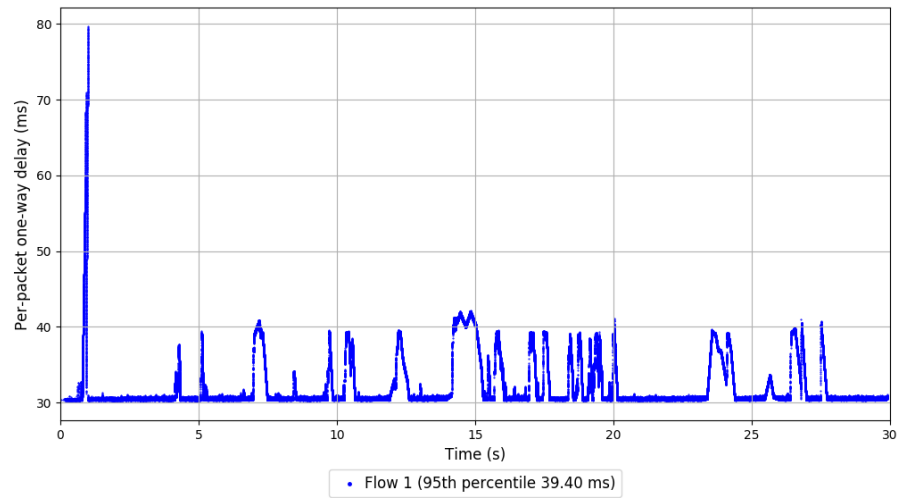
Run 7: Report of PCC — Data Link

Flow 1 ingress (mean 90.59 Mbit/s)   Flow 1 egress (mean 89.88 Mbit/s)

Flow 1 (95th percentile 39.39 ms)

```
Run 8: Statistics of PCC

Start at: 2018-01-26 03:08:38
End at: 2018-01-26 03:09:08
Local clock offset: 1.188 ms
Remote clock offset: -0.065 ms


# Below is generated by plot.py at 2018-01-26 10:06:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.89 Mbit/s
95th percentile per-packet one-way delay: 38.979 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 86.89 Mbit/s
95th percentile per-packet one-way delay: 38.979 ms
Loss rate: 1.33%
```
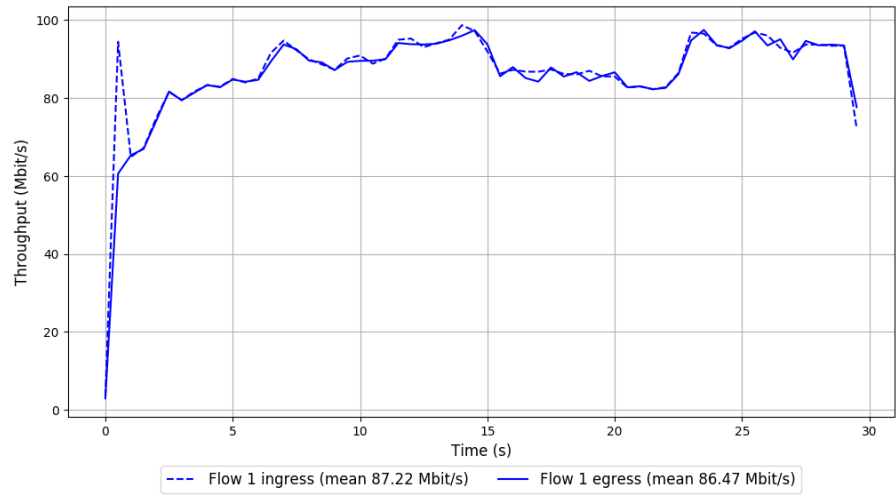
Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 88.08 Mbit/s)   Flow 1 egress (mean 86.89 Mbit/s)

Flow 1 (95th percentile 38.98 ms)

```
Run 9: Statistics of PCC

Start at: 2018-01-26 03:30:40
End at: 2018-01-26 03:31:10
Local clock offset: 1.031 ms
Remote clock offset: -0.027 ms


# Below is generated by plot.py at 2018-01-26 10:06:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 31.903 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 38.29 Mbit/s
95th percentile per-packet one-way delay: 31.903 ms
Loss rate: 0.27%
```

Run 9: Report of PCC — Data Link

Flow 1 ingress (mean 38.39 Mbit/s)   —— Flow 1 egress (mean 38.29 Mbit/s)

• Flow 1 (95th percentile 31.90 ms)

```
Run 10: Statistics of PCC

Start at: 2018-01-26 03:53:02
End at: 2018-01-26 03:53:32
Local clock offset: 0.961 ms
Remote clock offset: -0.435 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.47 Mbit/s
95th percentile per-packet one-way delay: 39.397 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 86.47 Mbit/s
95th percentile per-packet one-way delay: 39.397 ms
Loss rate: 0.86%
```

Run 10: Report of PCC — Data Link

Flow 1 ingress (mean 87.22 Mbit/s)   Flow 1 egress (mean 86.47 Mbit/s)

Flow 1 (95th percentile 39.40 ms)

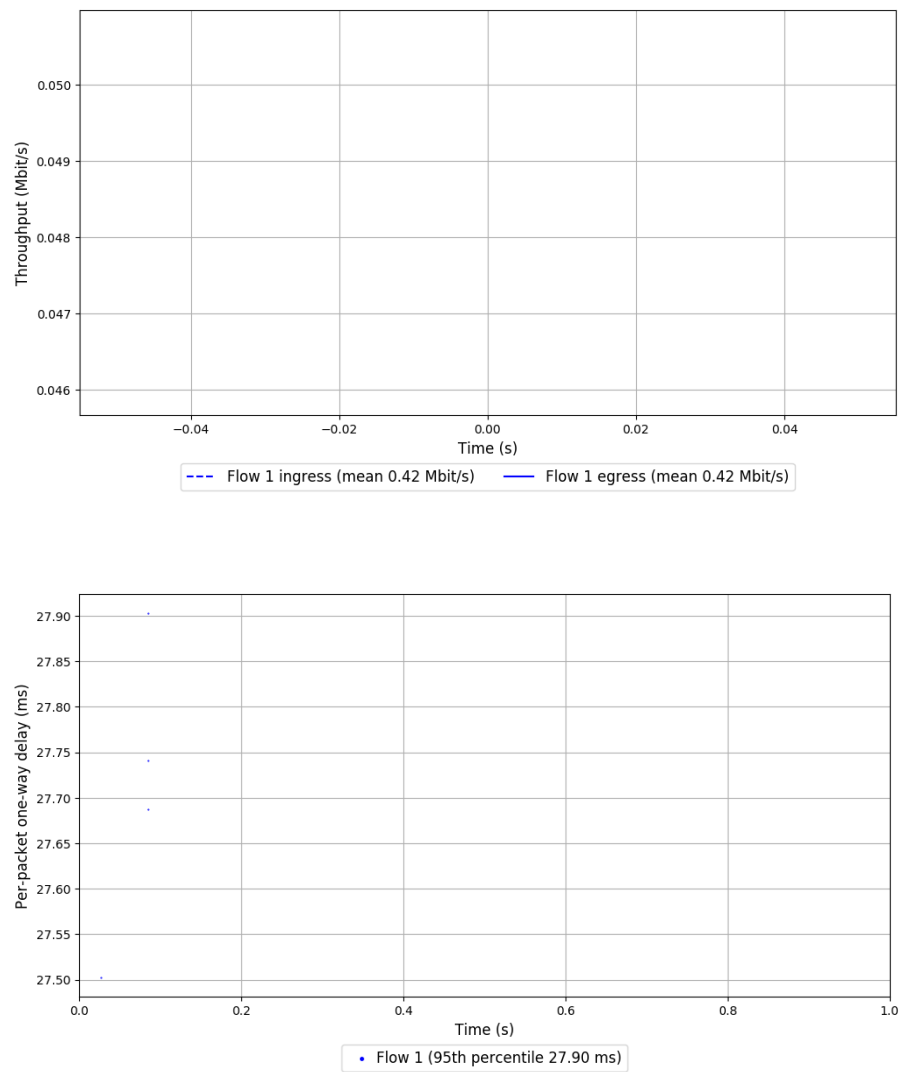Run 1: Statistics of QUIC Cubic

Start at: 2018-01-26 00:19:59
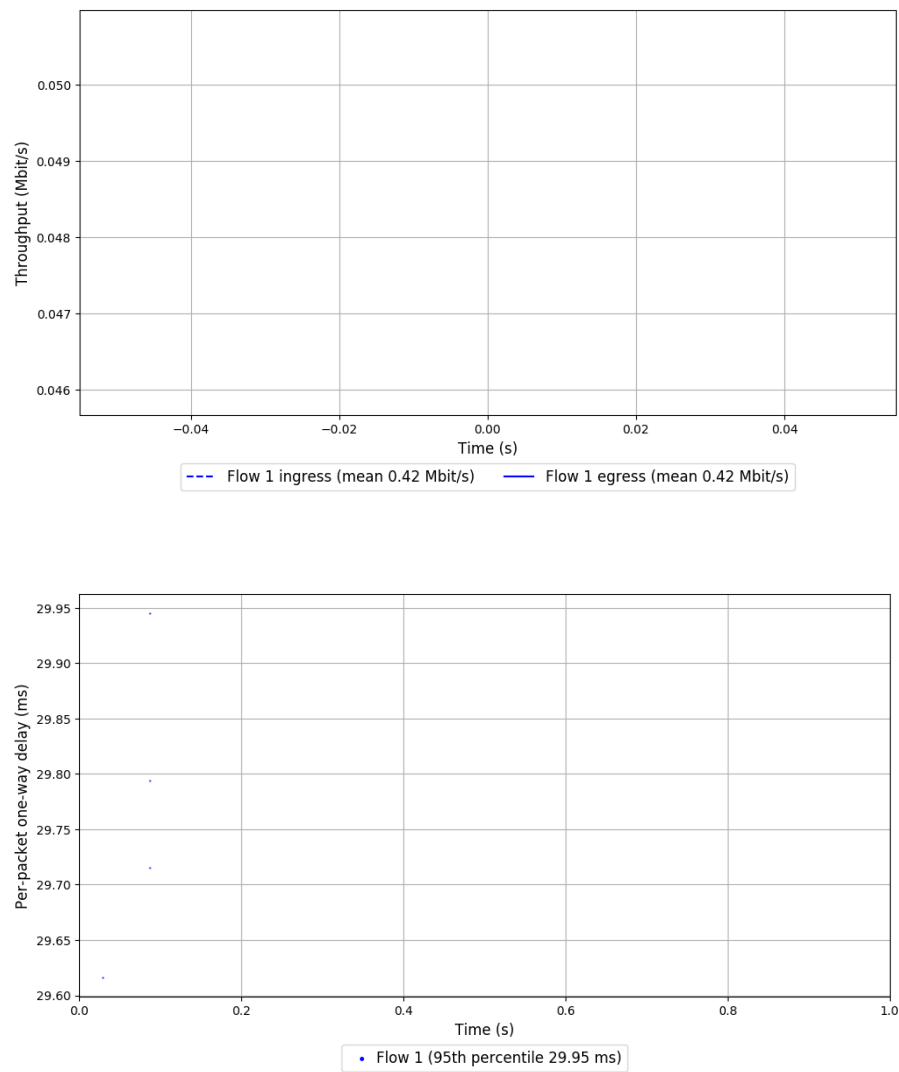End at: 2018-01-26 00:20:29
Local clock offset: 0.937 ms
Remote clock offset: -0.679 ms

Run 1: Report of QUIC Cubic — Data Link

--- Flow 1 ingress (mean 0.42 Mbit/s)   —— Flow 1 egress (mean 0.41 Mbit/s)

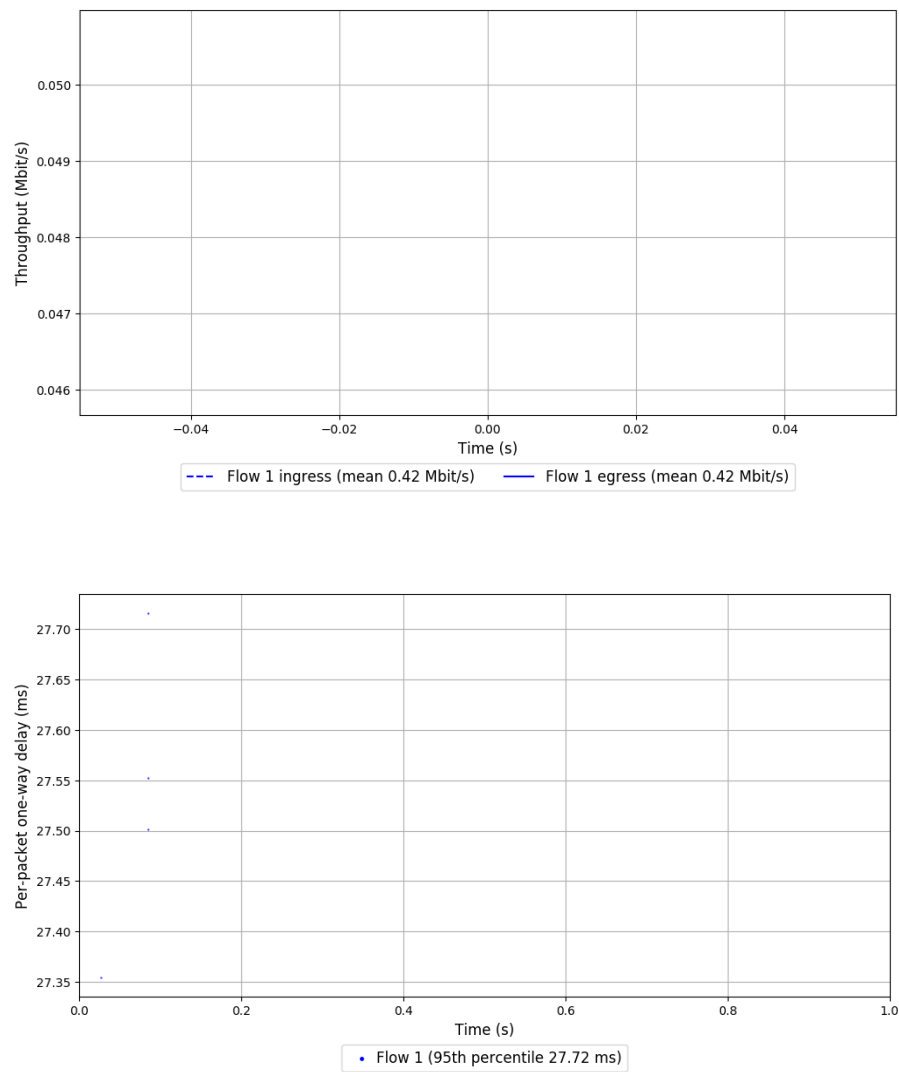• Flow 1 (95th percentile 30.70 ms)
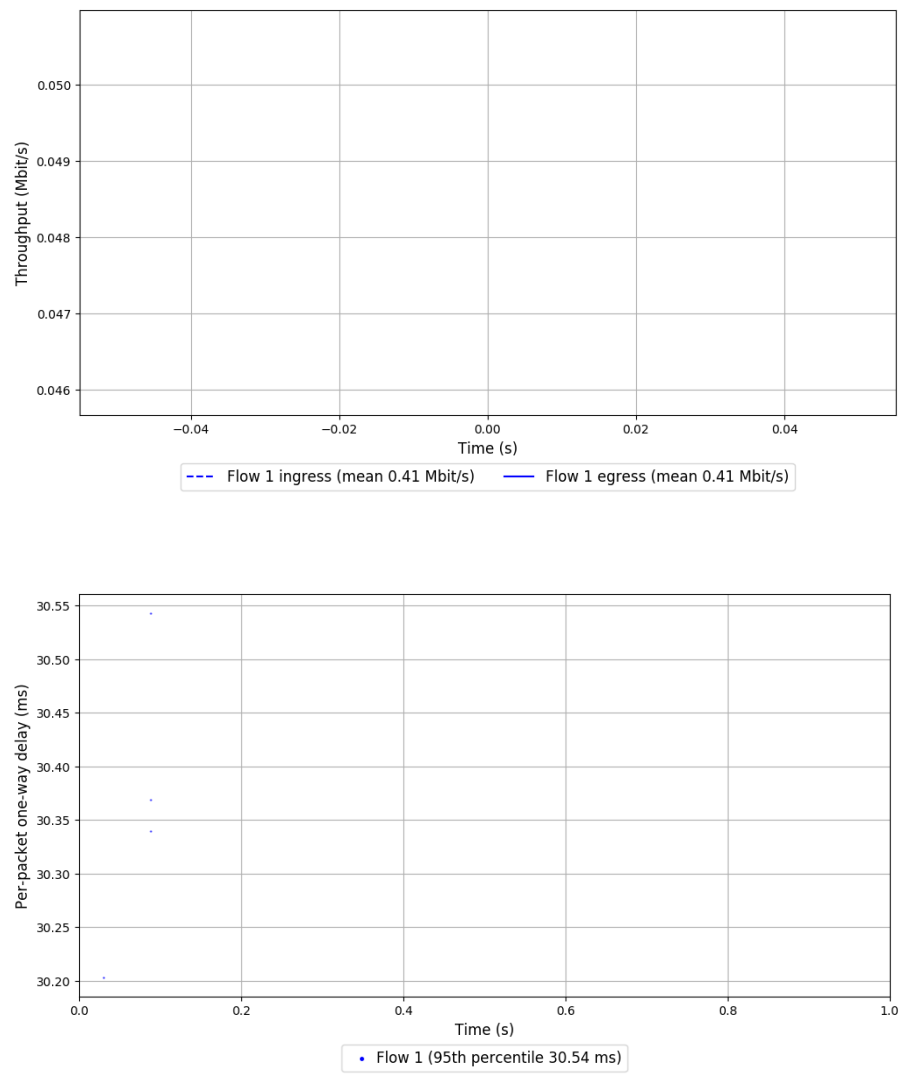
```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-26 00:43:39
End at: 2018-01-26 00:44:09
Local clock offset: 1.053 ms
Remote clock offset: -1.254 ms
```

Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.42 Mbit/s)   Flow 1 egress (mean 0.42 Mbit/s)

Flow 1 (95th percentile 30.01 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-26 01:07:15
End at: 2018-01-26 01:07:45
Local clock offset: 1.14 ms
Remote clock offset: -1.551 ms
```

Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.41 Mbit/s) --- Flow 1 egress (mean 0.41 Mbit/s)

Flow 1 (95th percentile 30.74 ms)
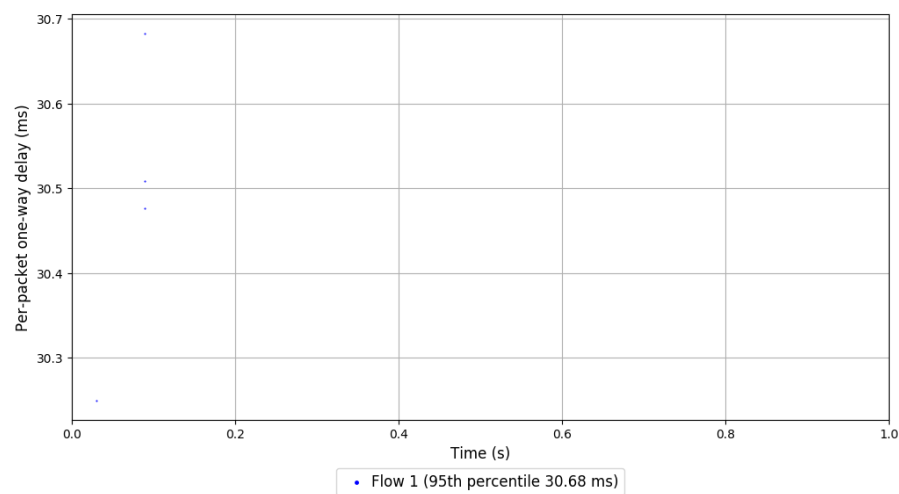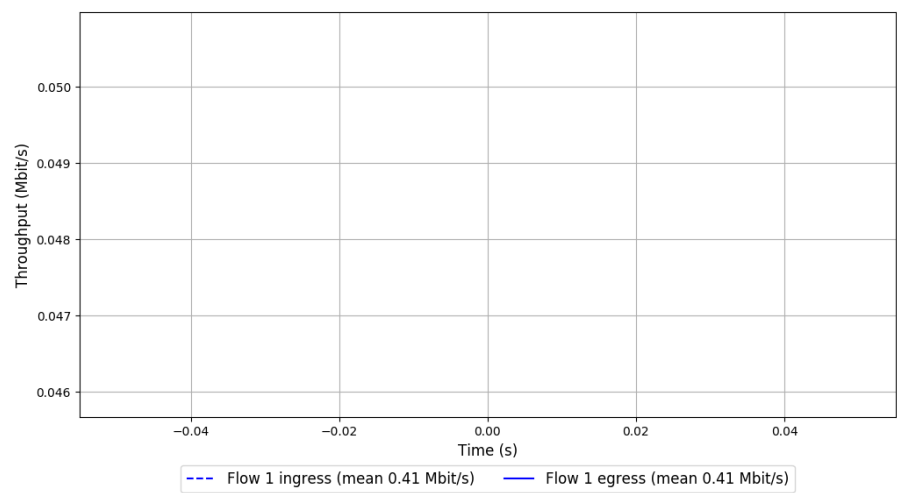
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 01:30:55
End at: 2018-01-26 01:31:25
Local clock offset: 1.419 ms
Remote clock offset: -3.759 ms

Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.42 Mbit/s)   Flow 1 egress (mean 0.42 Mbit/s)

Flow 1 (95th percentile 27.90 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-26 01:52:54
End at: 2018-01-26 01:53:24
Local clock offset: 1.292 ms
Remote clock offset: -4.443 ms
```
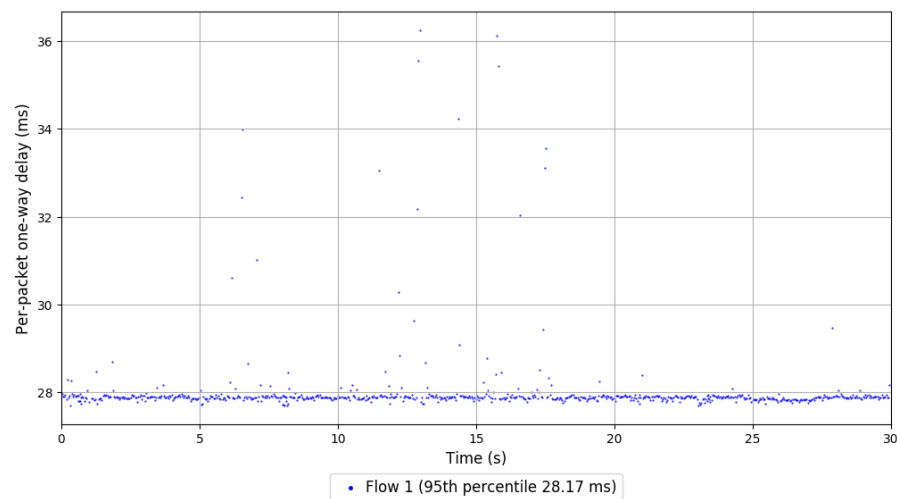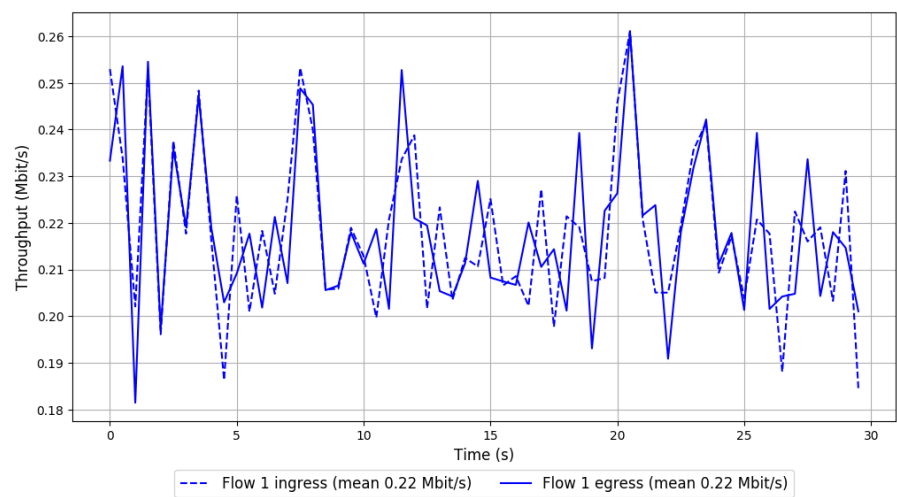
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.42 Mbit/s) --- Flow 1 egress (mean 0.42 Mbit/s)

Flow 1 (95th percentile 27.98 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-26 02:14:16
End at: 2018-01-26 02:14:46
Local clock offset: 1.409 ms
Remote clock offset: -2.109 ms
```

Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.42 Mbit/s)   Flow 1 egress (mean 0.42 Mbit/s)

Flow 1 (95th percentile 29.95 ms)

Run 7: Statistics of QUIC Cubic

Start at: 2018-01-26 02:36:00
End at: 2018-01-26 02:36:30
Local clock offset: 1.35 ms
Remote clock offset: -3.482 ms

Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.42 Mbit/s) ——— Flow 1 egress (mean 0.42 Mbit/s)

Flow 1 (95th percentile 27.72 ms)

97

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 02:58:04
End at: 2018-01-26 02:58:34
Local clock offset: 1.257 ms
Remote clock offset: -0.815 ms
```

Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.41 Mbit/s)   Flow 1 egress (mean 0.41 Mbit/s)

Flow 1 (95th percentile 30.54 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-26 03:19:51
End at: 2018-01-26 03:20:21
Local clock offset: 0.984 ms
Remote clock offset: -0.441 ms
```

Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.42 Mbit/s)   Flow 1 egress (mean 0.42 Mbit/s)

Flow 1 (95th percentile 30.00 ms)

Run 10: Statistics of QUIC Cubic

Start at: 2018-01-26 03:42:15
End at: 2018-01-26 03:42:45
Local clock offset: 0.972 ms
Remote clock offset: -0.359 ms

Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.41 Mbit/s) --- Flow 1 egress (mean 0.41 Mbit/s)

Flow 1 (95th percentile 30.68 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-01-26 00:25:47
End at: 2018-01-26 00:26:17
Local clock offset: 0.87 ms
Remote clock offset: -3.214 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.170 ms
Loss rate: 0.00%
```
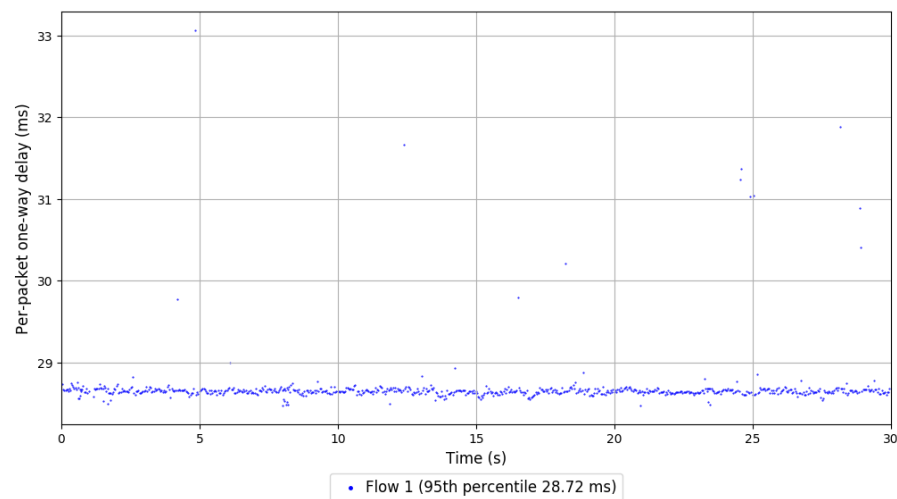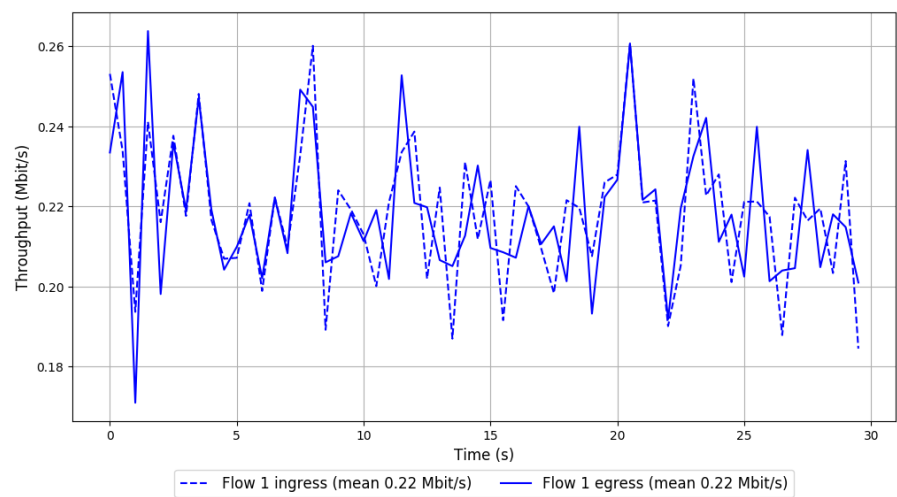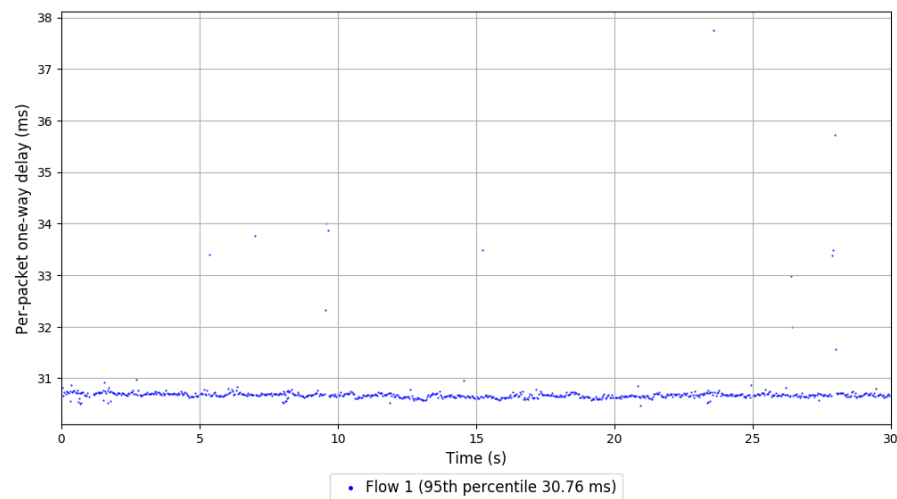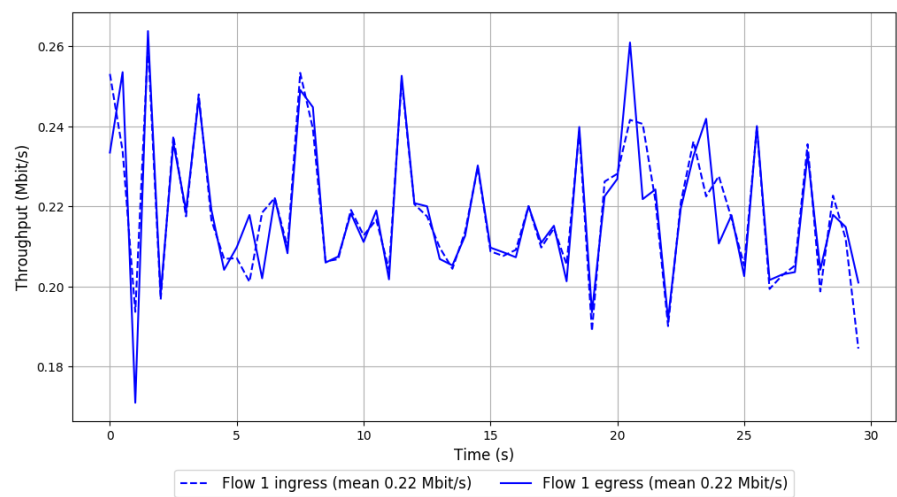
Run 1: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 28.17 ms)

```
Run 2: Statistics of SCReAM

Start at: 2018-01-26 00:49:26
End at: 2018-01-26 00:49:56
Local clock offset: 1.135 ms
Remote clock offset: -0.94 ms
```

Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2018-01-26 01:12:49
End at: 2018-01-26 01:13:19
Local clock offset: 1.256 ms
Remote clock offset: -1.573 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.050 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.050 ms
Loss rate: 0.11%
```
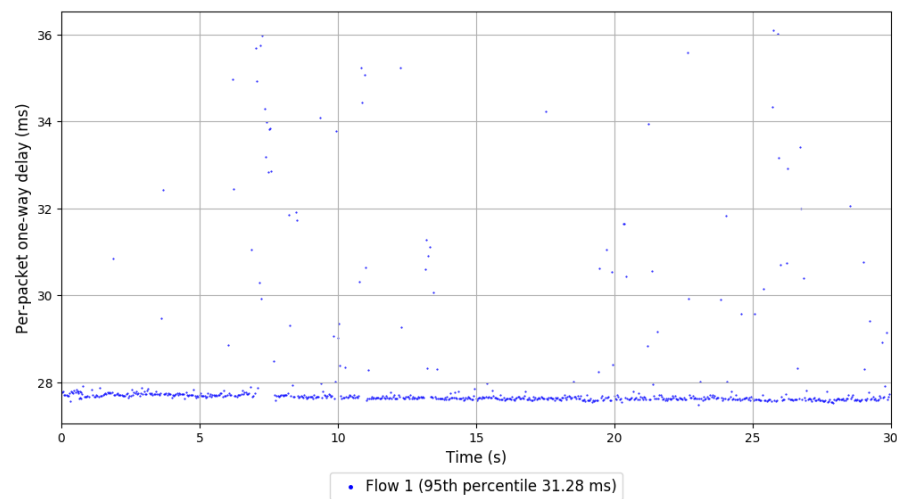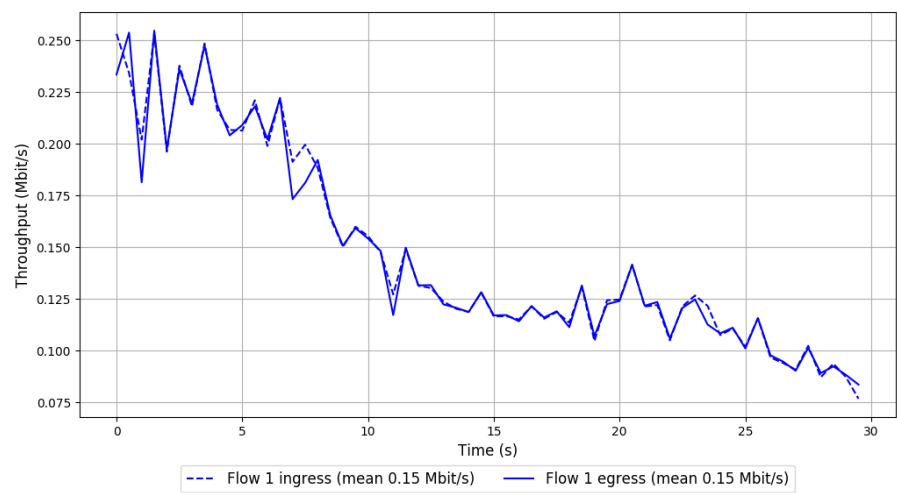
Run 3: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 30.05 ms)

```
Run 4: Statistics of SCReAM

Start at: 2018-01-26 01:36:32
End at: 2018-01-26 01:37:02
Local clock offset: 1.422 ms
Remote clock offset: -1.877 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.122 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 30.122 ms
Loss rate: 0.13%
```
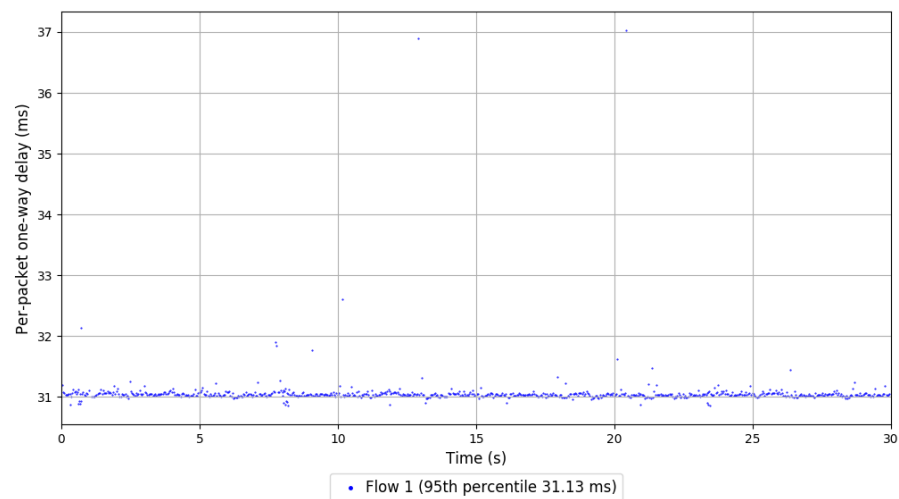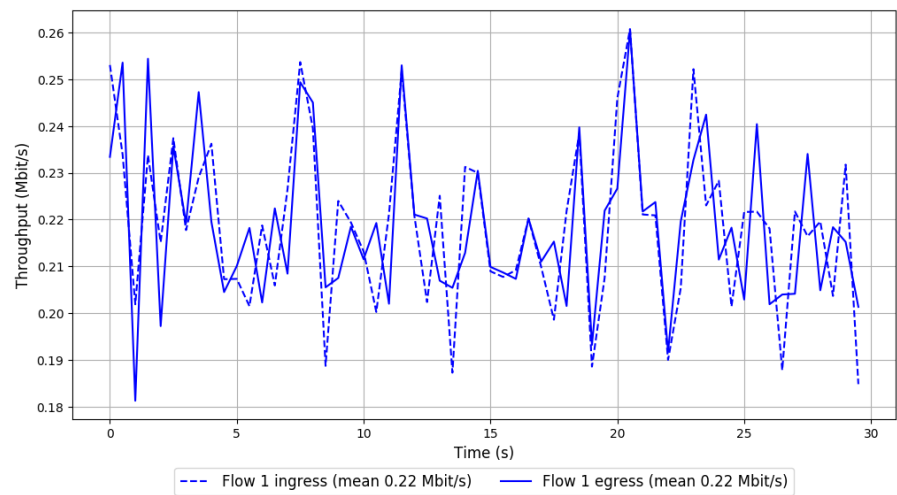
Run 4: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 30.12 ms)

```
Run 5: Statistics of SCReAM

Start at: 2018-01-26 01:58:11
End at: 2018-01-26 01:58:41
Local clock offset: 1.313 ms
Remote clock offset: -4.416 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.717 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.717 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 28.72 ms)

```
Run 6: Statistics of SCReAM

Start at: 2018-01-26 02:19:33
End at: 2018-01-26 02:20:03
Local clock offset: 1.311 ms
Remote clock offset: -1.911 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.760 ms
Loss rate: 0.00%
```
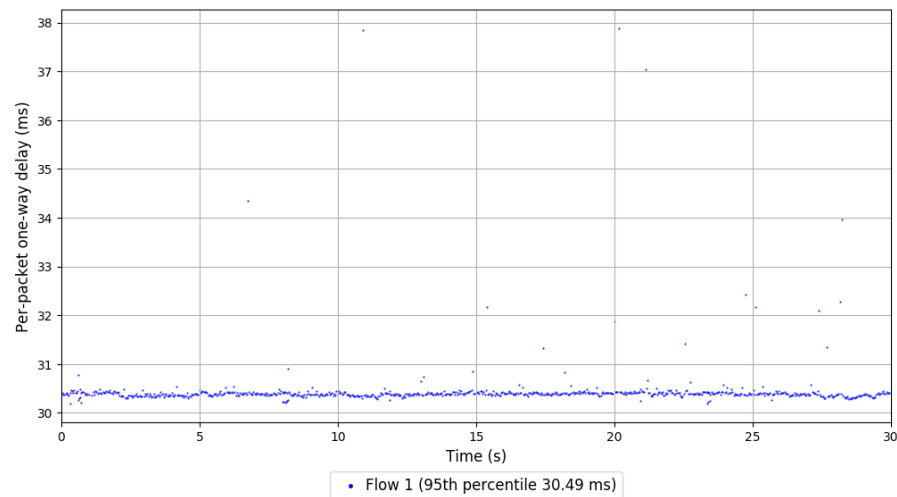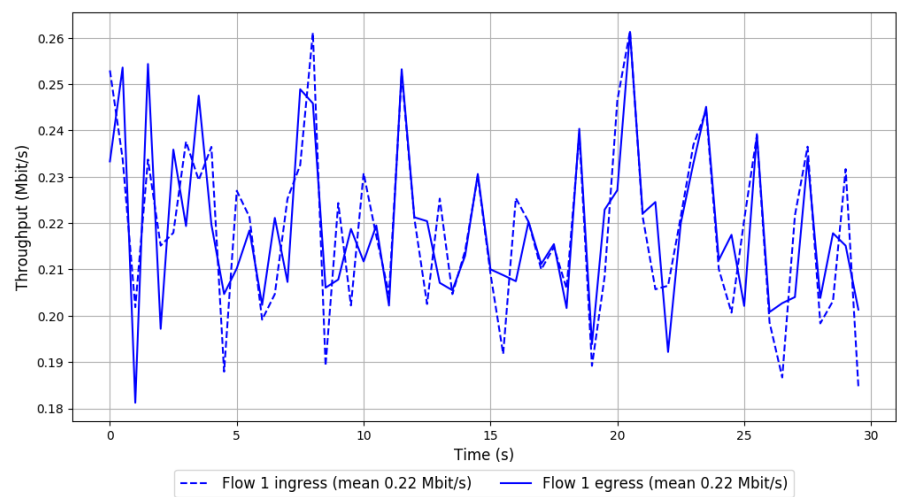
Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: 2018-01-26 02:41:36
End at: 2018-01-26 02:42:06
Local clock offset: 1.323 ms
Remote clock offset: -3.324 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 31.284 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 31.284 ms
Loss rate: 0.65%
```
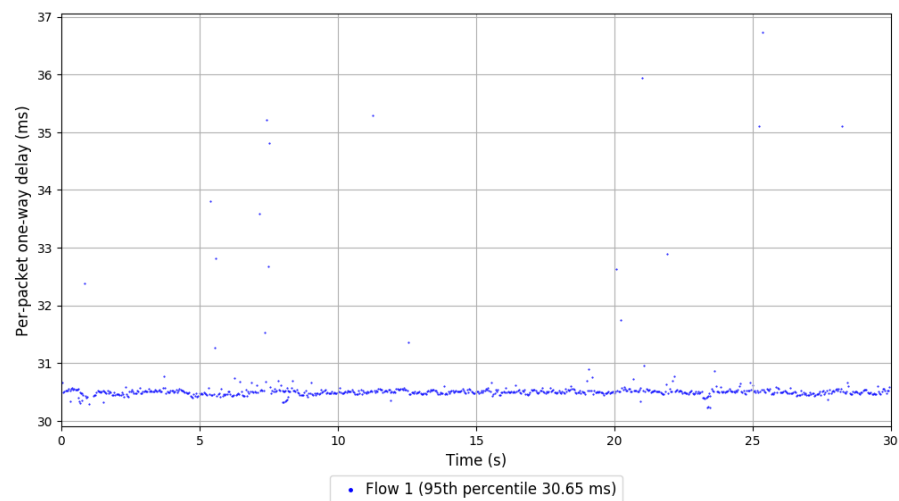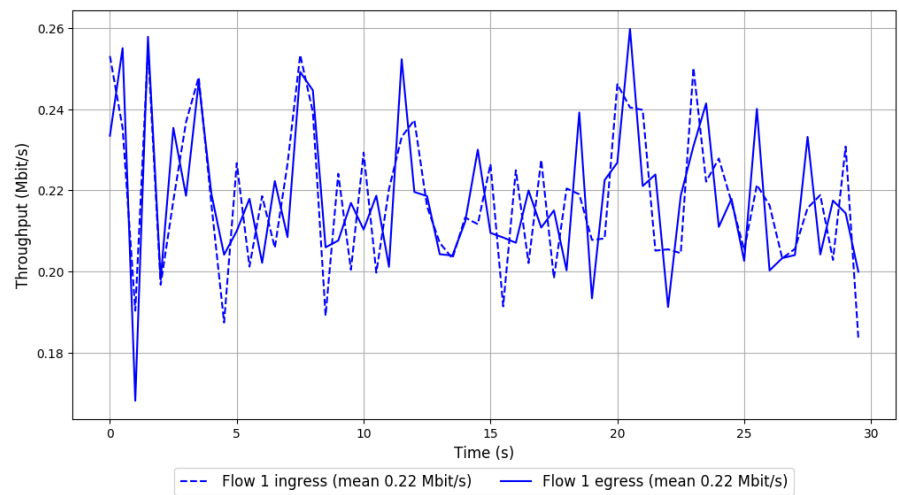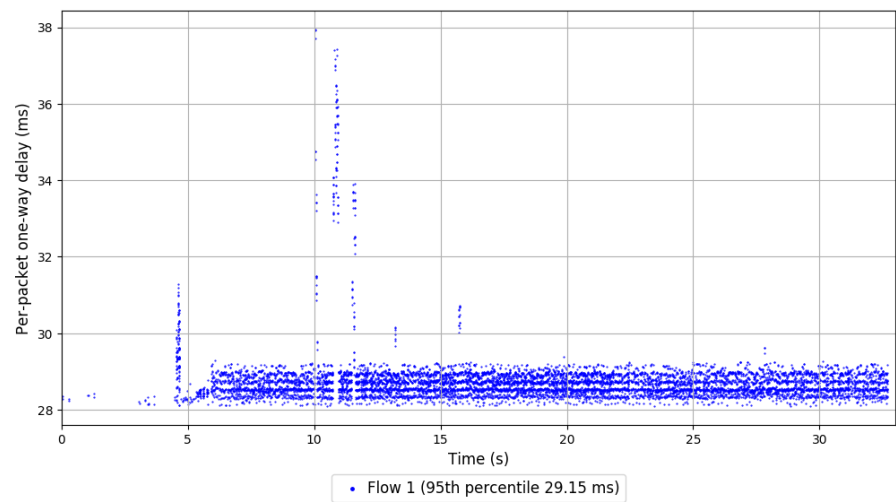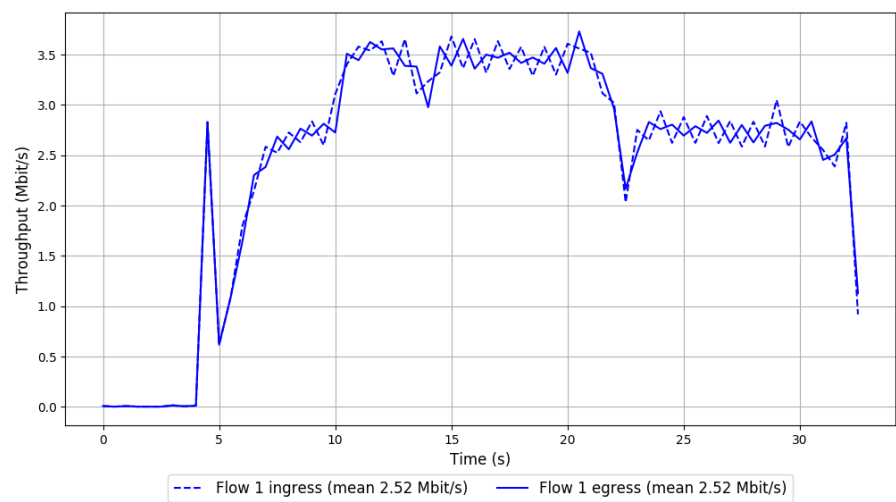
Run 7: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.15 Mbit/s) —— Flow 1 egress (mean 0.15 Mbit/s)

Flow 1 (95th percentile 31.28 ms)

```
Run 8: Statistics of SCReAM

Start at: 2018-01-26 03:03:28
End at: 2018-01-26 03:03:58
Local clock offset: 1.23 ms
Remote clock offset: -0.205 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.127 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.127 ms
Loss rate: 0.00%
```
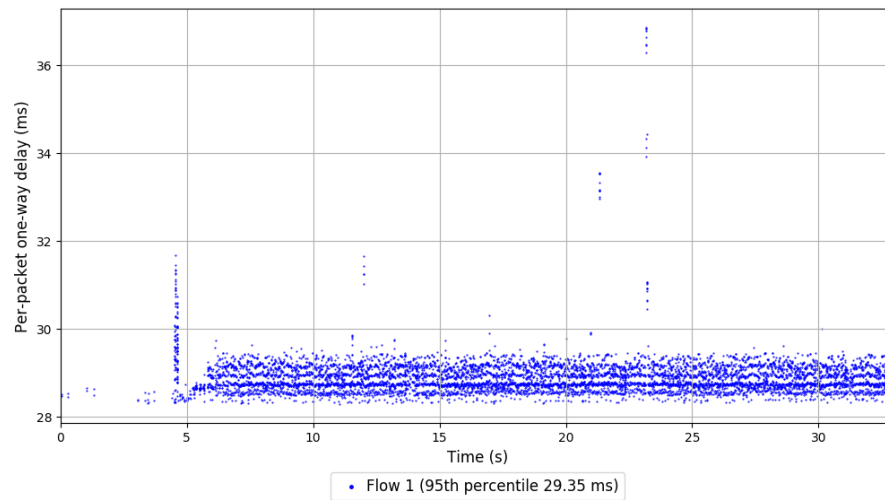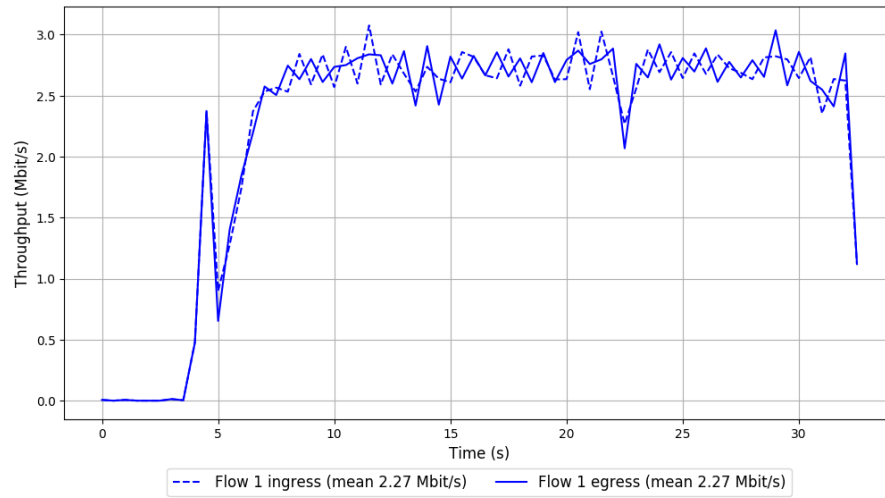
Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: 2018-01-26 03:25:21
End at: 2018-01-26 03:25:51
Local clock offset: 1.023 ms
Remote clock offset: 0.054 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.492 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.492 ms
Loss rate: 0.00%
```
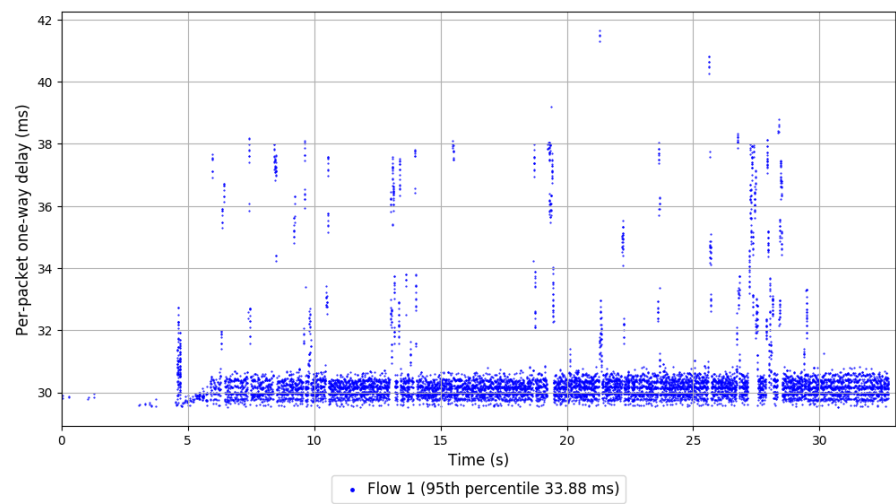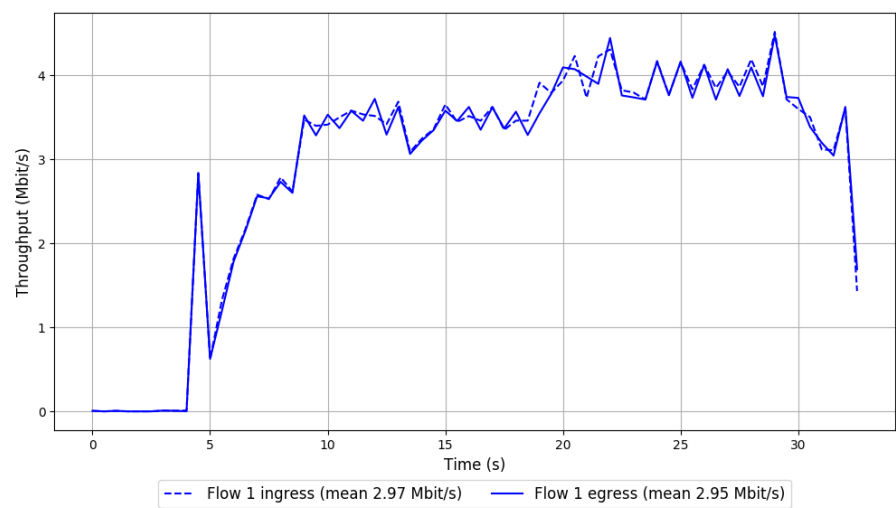
Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2018-01-26 03:47:48
End at: 2018-01-26 03:48:18
Local clock offset: 0.966 ms
Remote clock offset: -0.39 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.646 ms
Loss rate: 0.00%
```

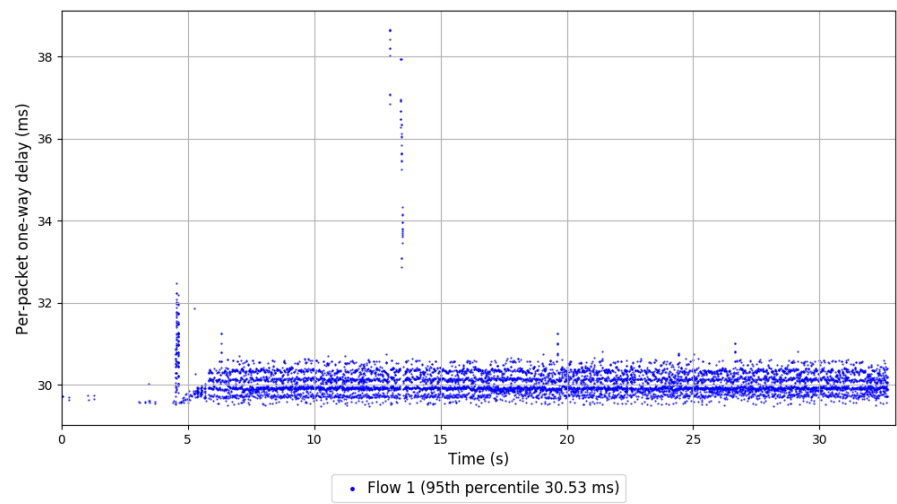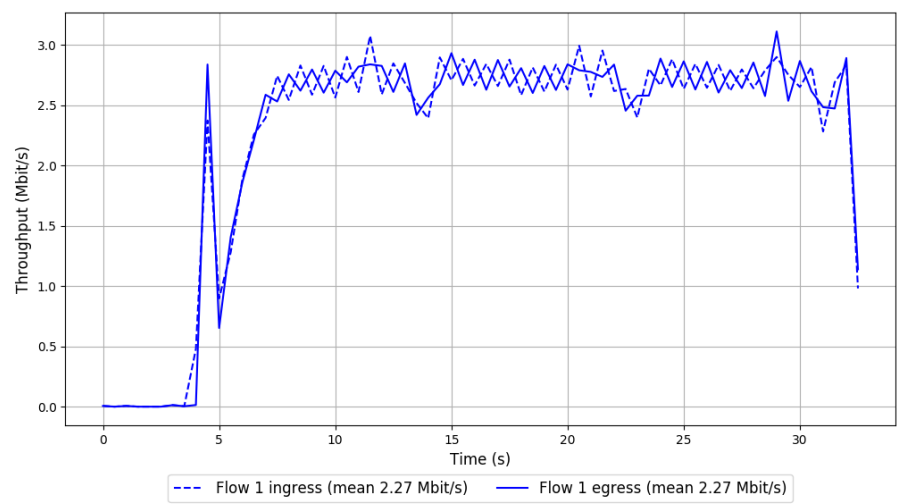Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2018-01-26 00:22:45
End at: 2018-01-26 00:23:15
Local clock offset: 0.934 ms
Remote clock offset: -3.228 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 29.146 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 29.146 ms
Loss rate: 0.08%
```
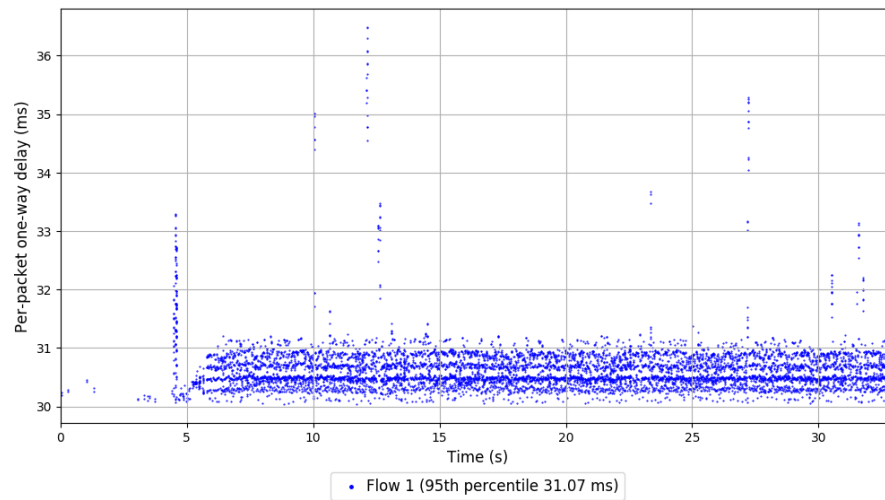
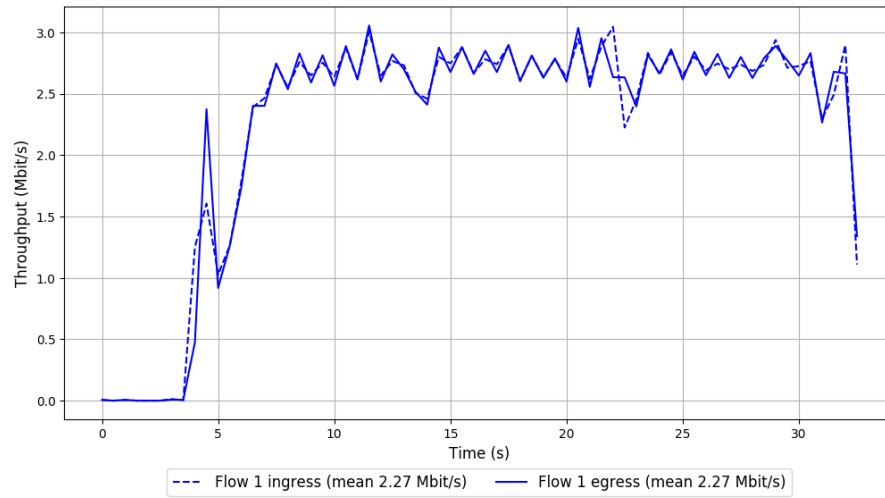Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-01-26 00:46:32
End at: 2018-01-26 00:47:02
Local clock offset: 1.002 ms
Remote clock offset: -3.312 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 29.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 29.353 ms
Loss rate: 0.00%
```
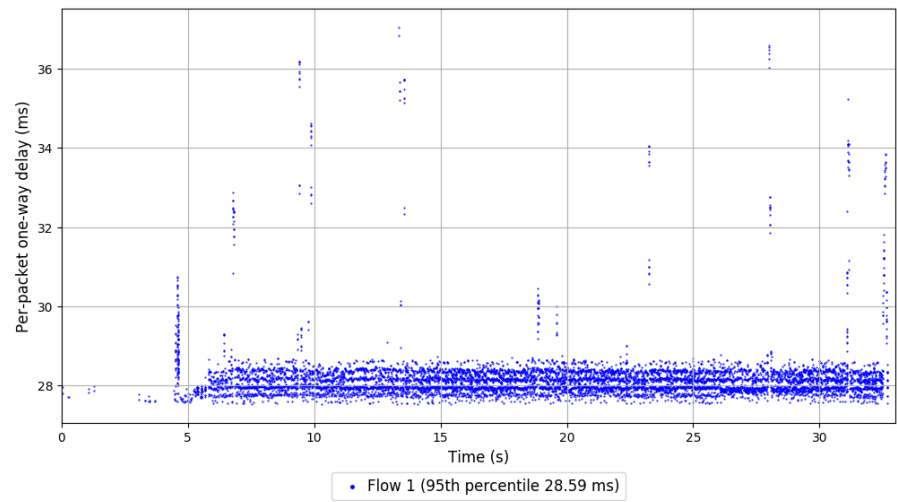
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-01-26 01:09:55
End at: 2018-01-26 01:10:25
Local clock offset: 1.151 ms
Remote clock offset: -1.685 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 33.879 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 33.879 ms
Loss rate: 0.65%
```
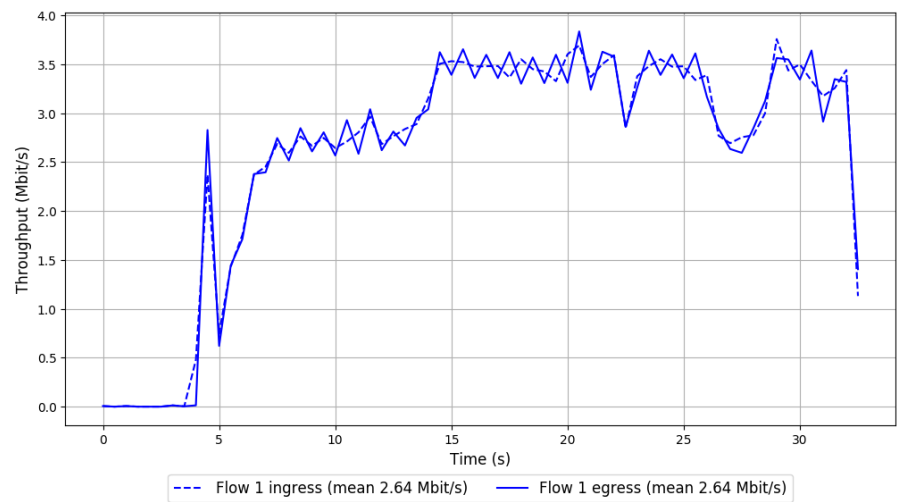
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-01-26 01:33:46
End at: 2018-01-26 01:34:16
Local clock offset: 1.423 ms
Remote clock offset: -1.806 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.530 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.530 ms
Loss rate: 0.00%
```
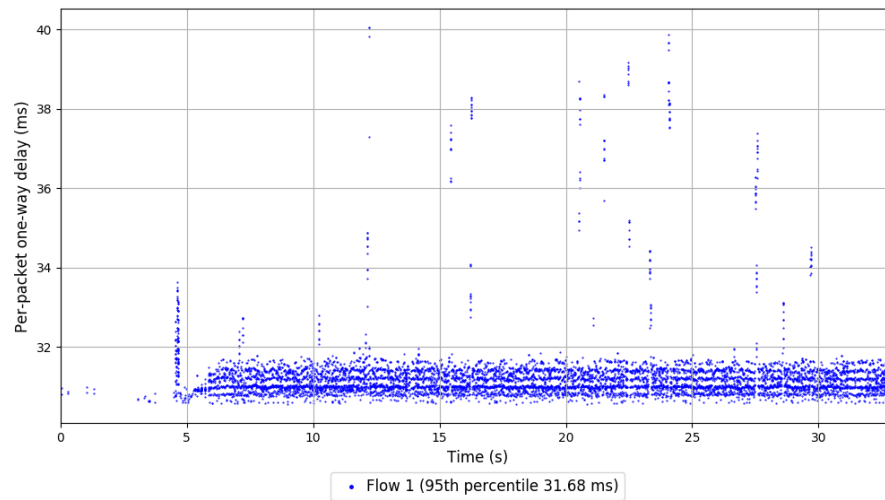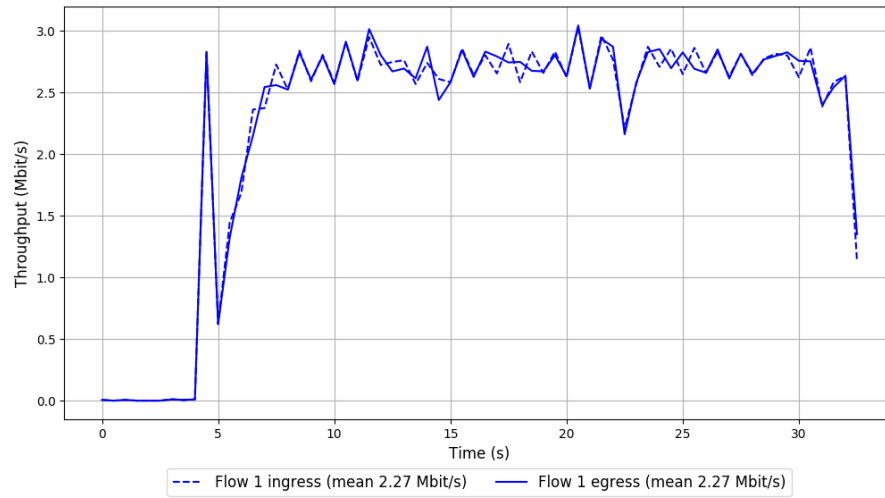
Run 4: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.27 Mbit/s)   Flow 1 egress (mean 2.27 Mbit/s)

Flow 1 (95th percentile 30.53 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2018-01-26 01:55:33
End at: 2018-01-26 01:56:03
Local clock offset: 1.42 ms
Remote clock offset: -1.846 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 31.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 31.072 ms
Loss rate: 0.00%
```
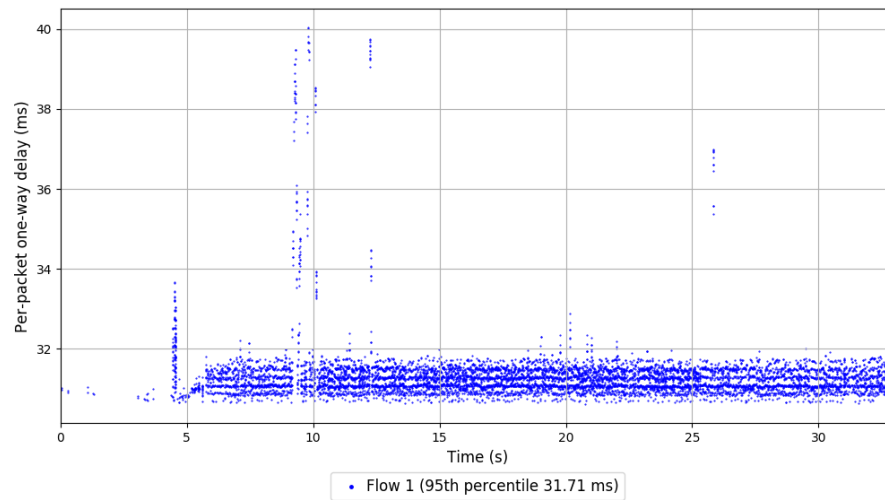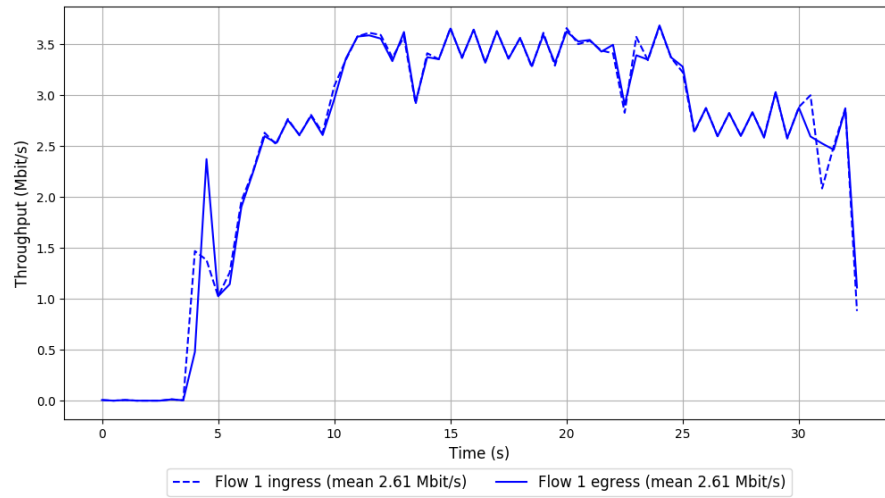
Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.27 Mbit/s)   Flow 1 egress (mean 2.27 Mbit/s)

Flow 1 (95th percentile 31.07 ms)

```
Run 6: Statistics of WebRTC media

Start at: 2018-01-26 02:16:55
End at: 2018-01-26 02:17:25
Local clock offset: 1.394 ms
Remote clock offset: -4.033 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 28.590 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 2.64 Mbit/s
95th percentile per-packet one-way delay: 28.590 ms
Loss rate: 0.13%
```
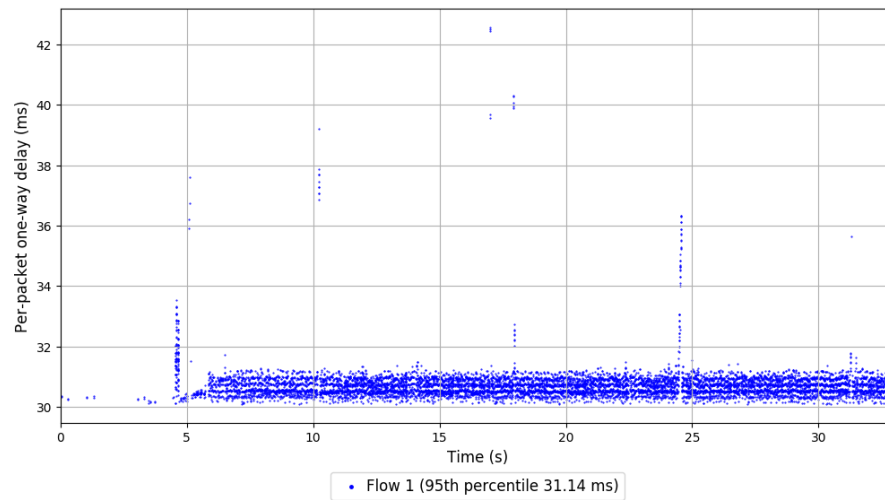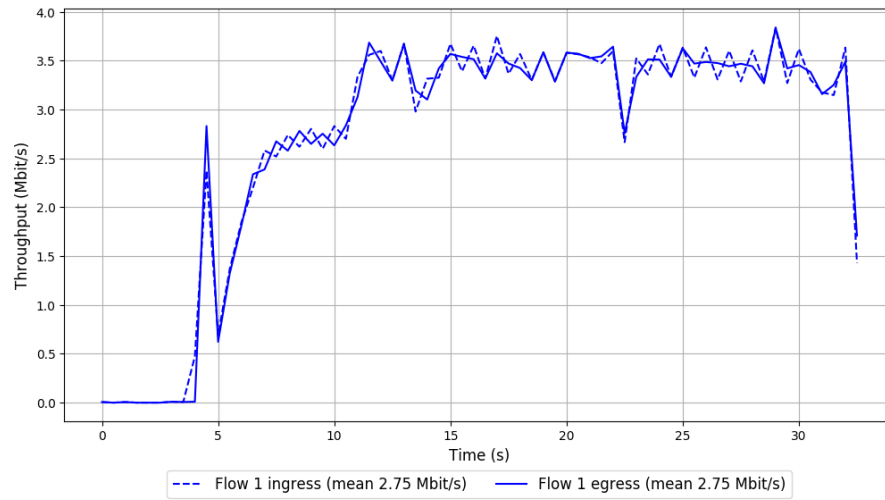
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-01-26 02:38:46
End at: 2018-01-26 02:39:16
Local clock offset: 1.35 ms
Remote clock offset: -0.83 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 31.677 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 31.677 ms
Loss rate: 0.00%
```
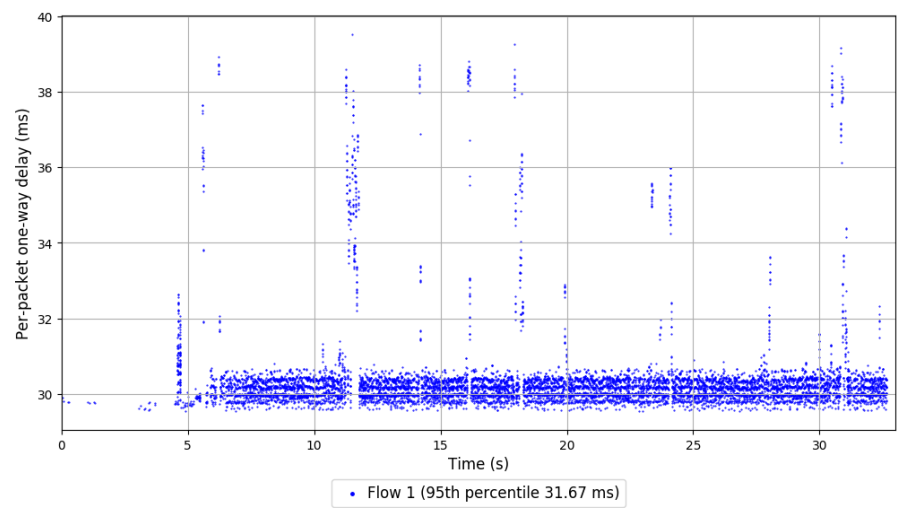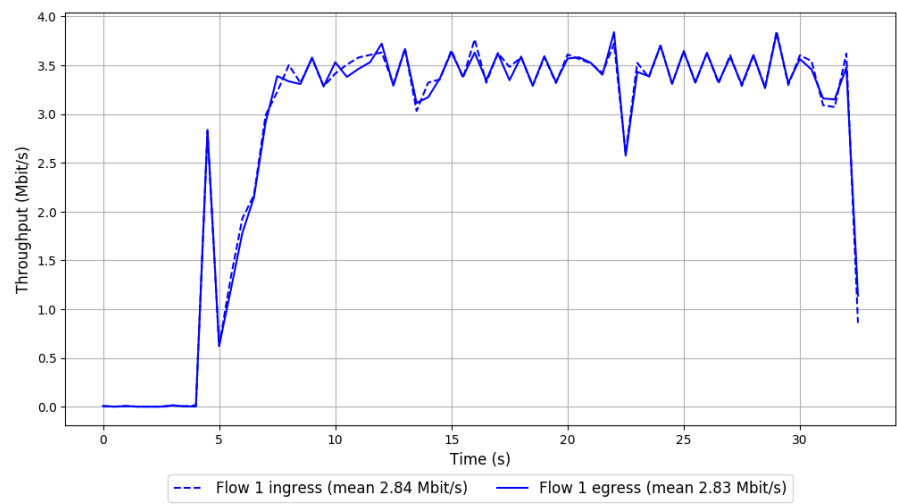
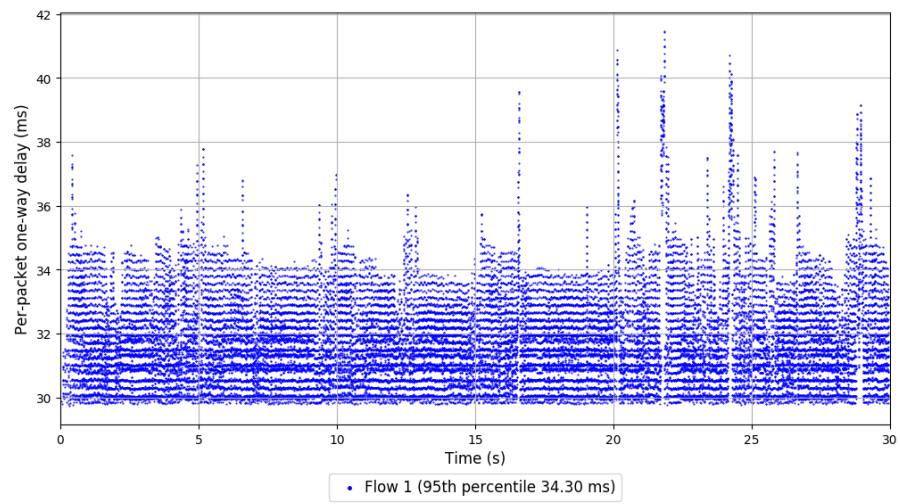# Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-01-26 03:00:45
End at: 2018-01-26 03:01:15
Local clock offset: 1.248 ms
Remote clock offset: -0.27 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 31.711 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 2.61 Mbit/s
95th percentile per-packet one-way delay: 31.711 ms
Loss rate: 0.09%
```
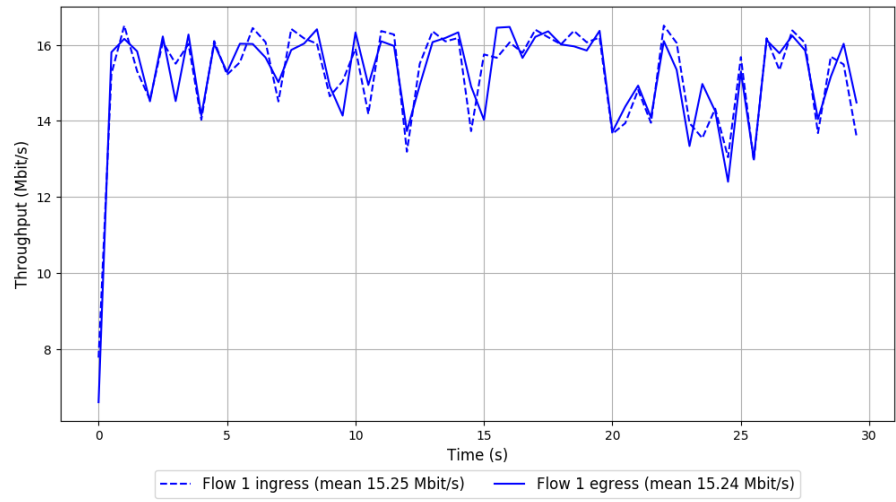
Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2018-01-26 03:22:39
End at: 2018-01-26 03:23:09
Local clock offset: 1.029 ms
Remote clock offset: 0.145 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 31.138 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 2.75 Mbit/s
95th percentile per-packet one-way delay: 31.138 ms
Loss rate: 0.14%
```
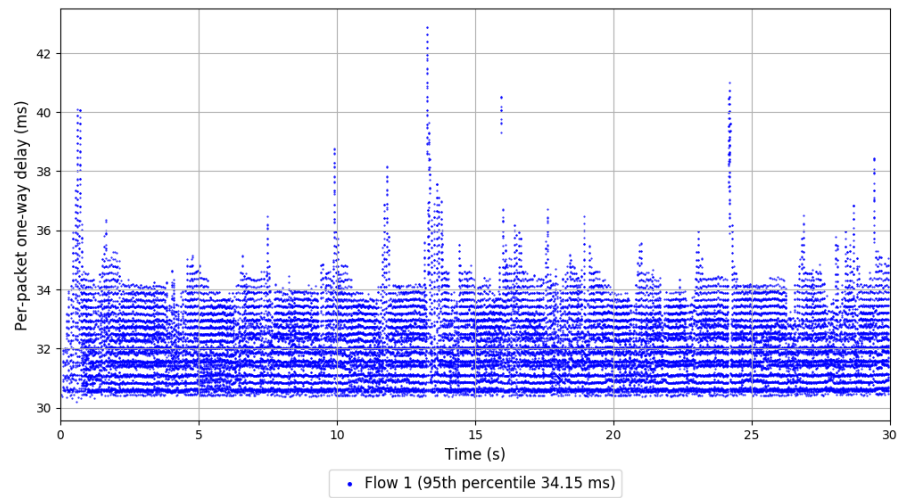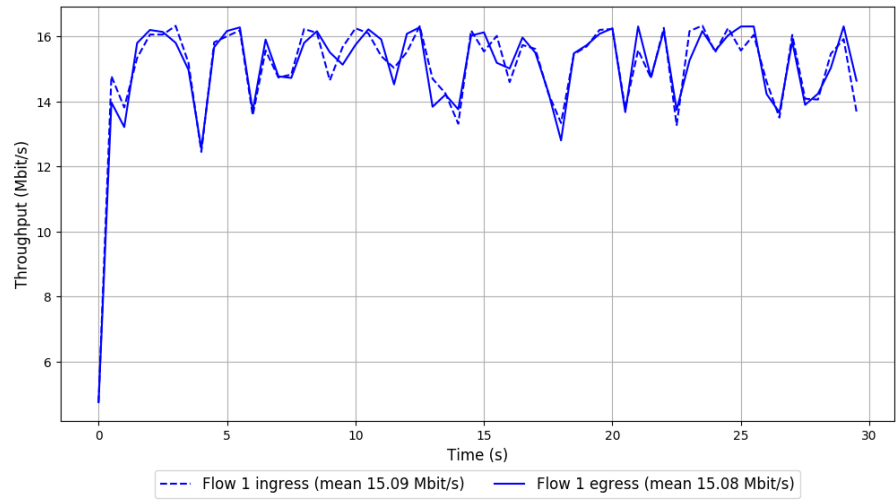
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-01-26 03:44:57
End at: 2018-01-26 03:45:27
Local clock offset: 0.961 ms
Remote clock offset: -0.294 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 31.667 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 2.83 Mbit/s
95th percentile per-packet one-way delay: 31.667 ms
Loss rate: 0.36%
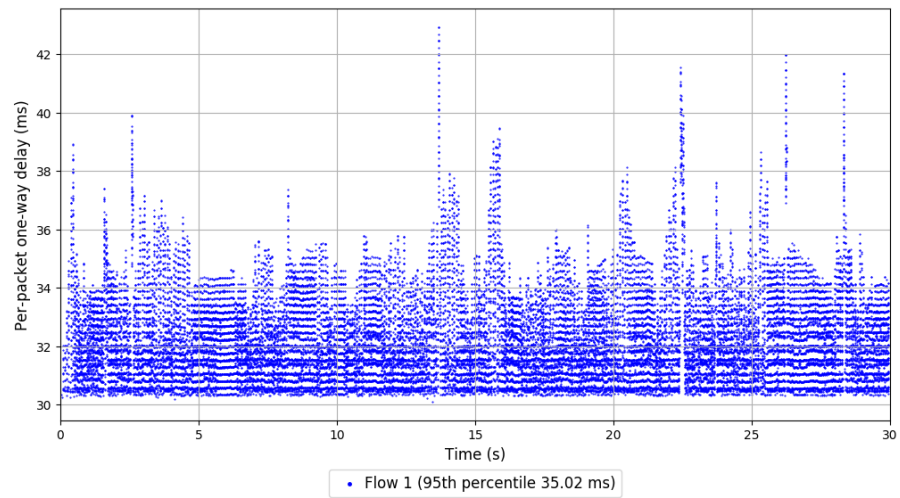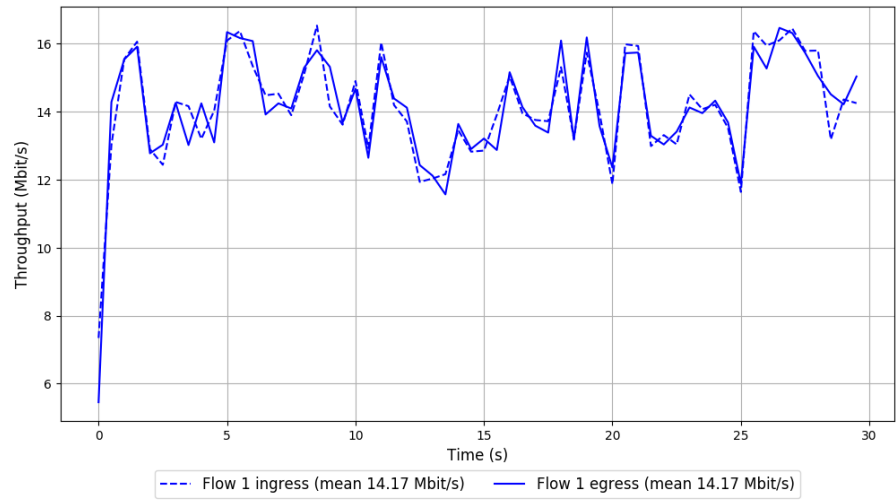```

Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2018-01-26 00:28:27
End at: 2018-01-26 00:28:57
Local clock offset: 0.865 ms
Remote clock offset: -1.192 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 34.298 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 15.24 Mbit/s
95th percentile per-packet one-way delay: 34.298 ms
Loss rate: 0.04%
```

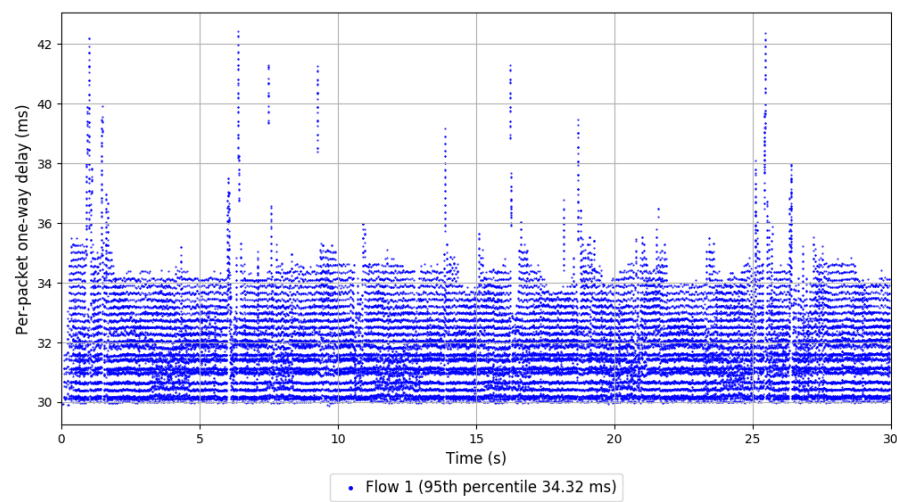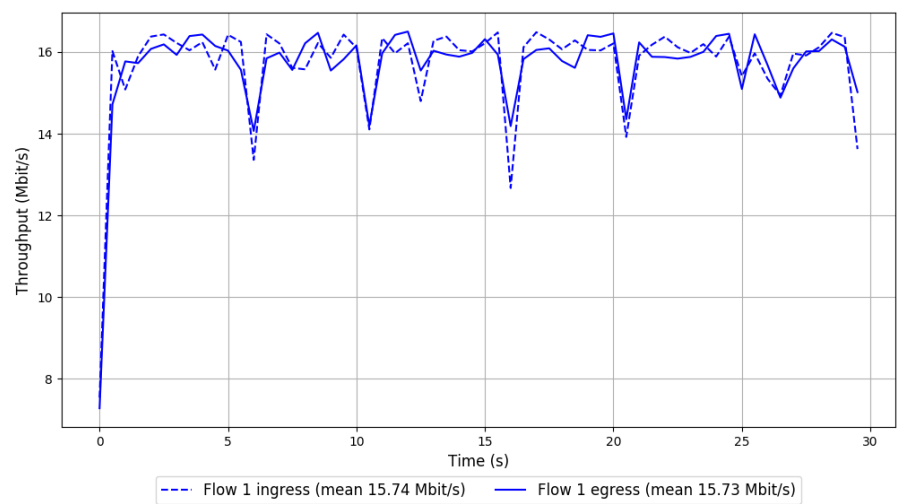Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-01-26 00:52:11
End at: 2018-01-26 00:52:41
Local clock offset: 1.146 ms
Remote clock offset: -1.456 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 34.148 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 34.148 ms
Loss rate: 0.04%
```

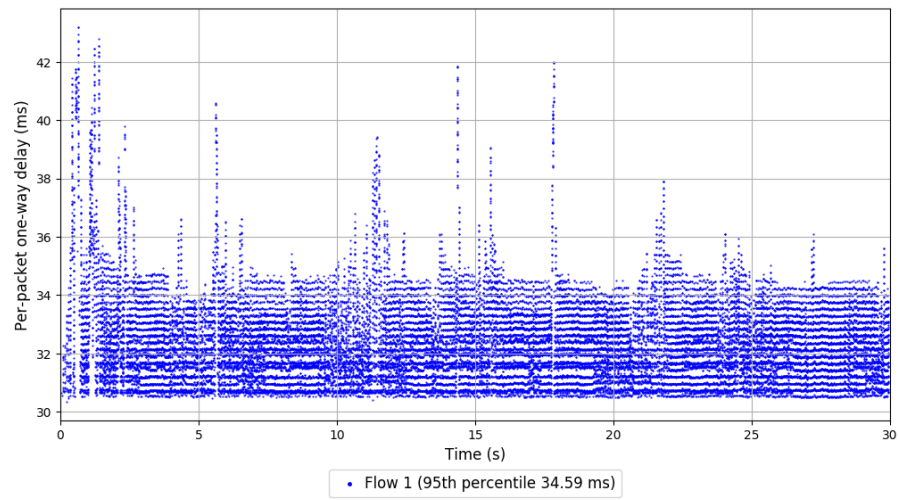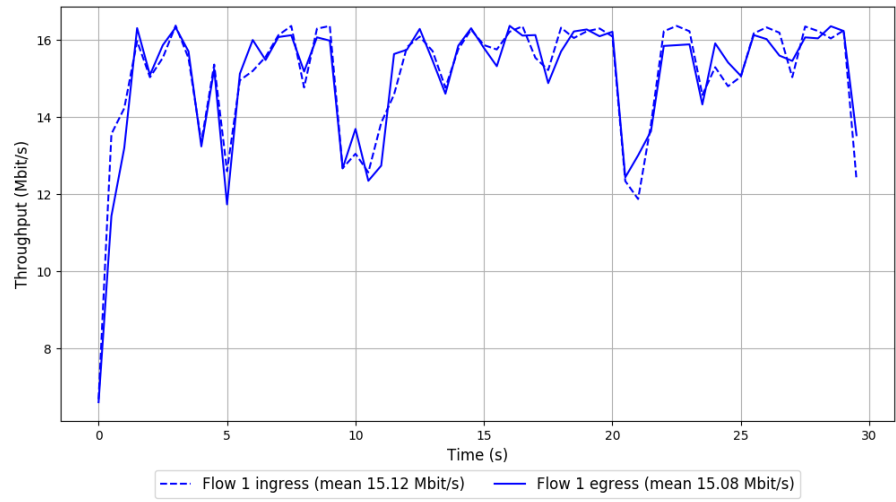# Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-01-26 01:15:37
End at: 2018-01-26 01:16:07
Local clock offset: 1.27 ms
Remote clock offset: -1.098 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.17 Mbit/s
95th percentile per-packet one-way delay: 35.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.17 Mbit/s
95th percentile per-packet one-way delay: 35.016 ms
Loss rate: 0.00%
```

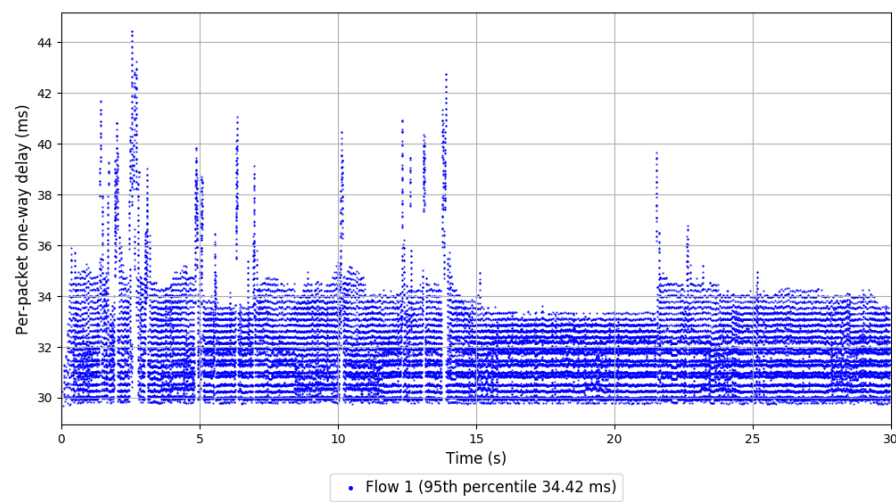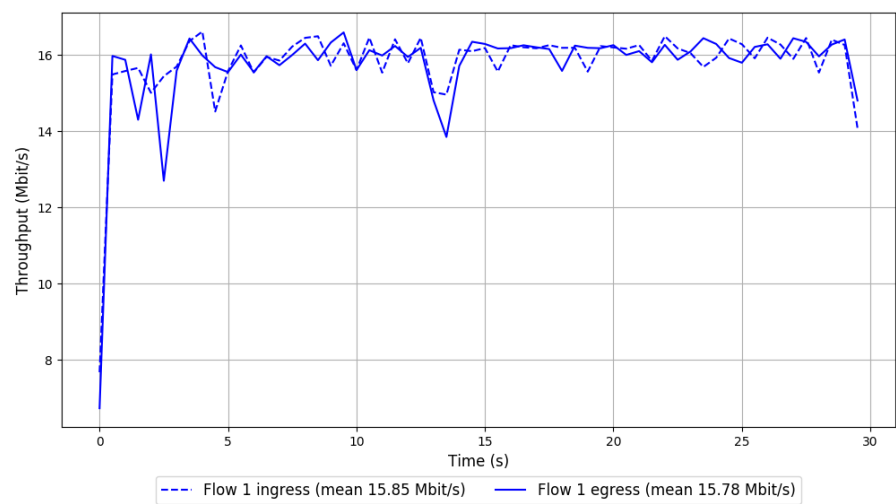# Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2018-01-26 01:39:10
End at: 2018-01-26 01:39:40
Local clock offset: 1.354 ms
Remote clock offset: -1.834 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 34.321 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 15.73 Mbit/s
95th percentile per-packet one-way delay: 34.321 ms
Loss rate: 0.05%
```

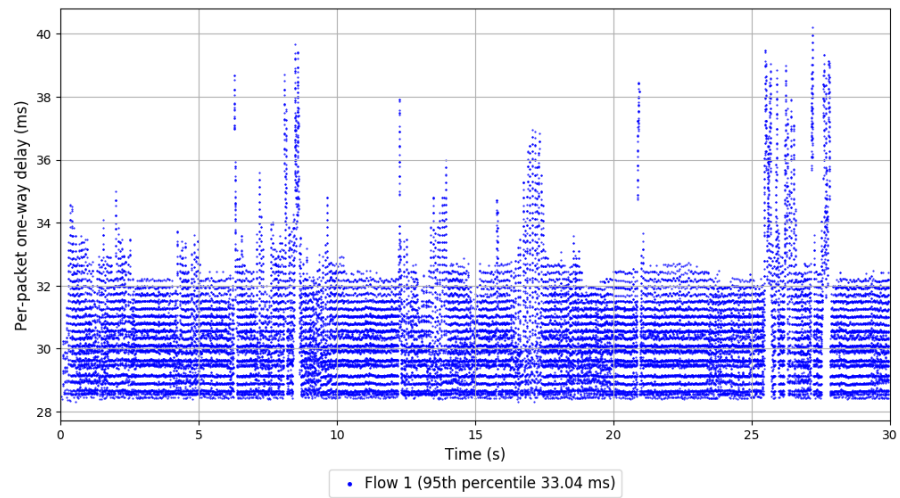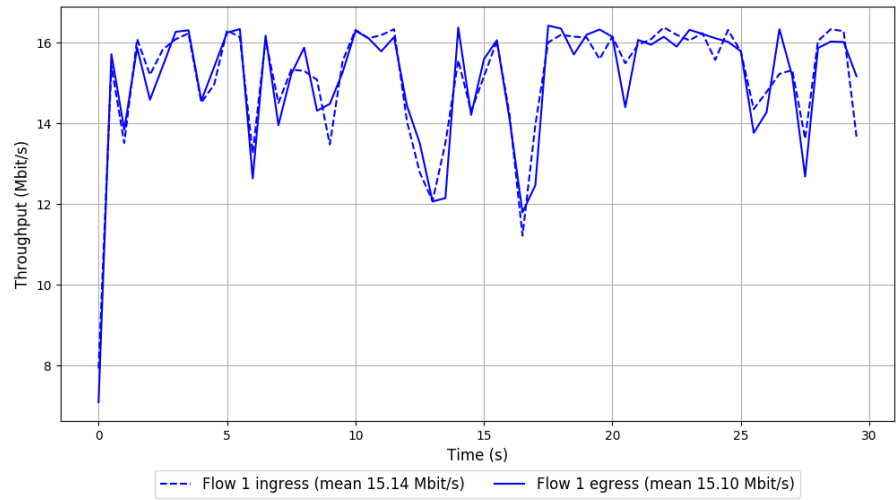## Run 4: Report of Sprout — Data Link

Flow 1 ingress (mean 15.74 Mbit/s)   Flow 1 egress (mean 15.73 Mbit/s)

• Flow 1 (95th percentile 34.32 ms)

```
Run 5: Statistics of Sprout

Start at: 2018-01-26 02:00:46
End at: 2018-01-26 02:01:16
Local clock offset: 1.411 ms
Remote clock offset: -2.287 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 34.587 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 15.08 Mbit/s
95th percentile per-packet one-way delay: 34.587 ms
Loss rate: 0.26%
```

Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 15.12 Mbit/s)   Flow 1 egress (mean 15.08 Mbit/s)

Flow 1 (95th percentile 34.59 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-01-26 02:22:08
End at: 2018-01-26 02:22:38
Local clock offset: 1.361 ms
Remote clock offset: -1.839 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 34.418 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 34.418 ms
Loss rate: 0.38%
```
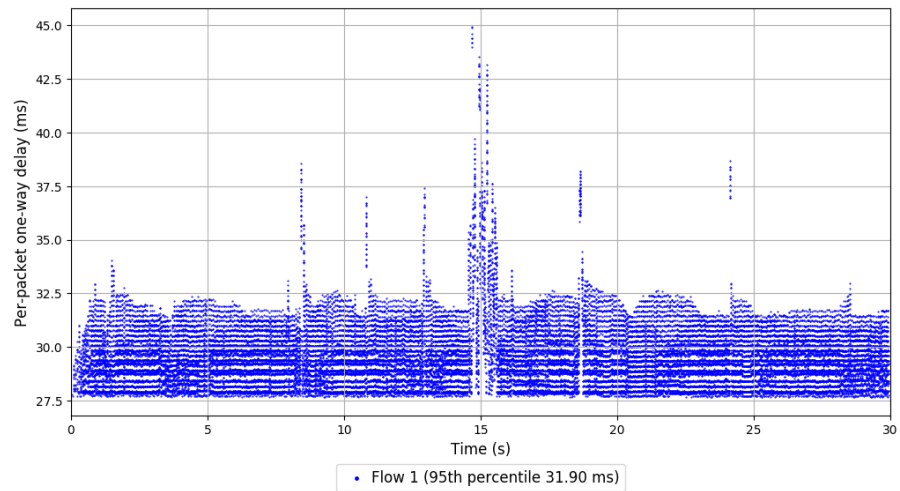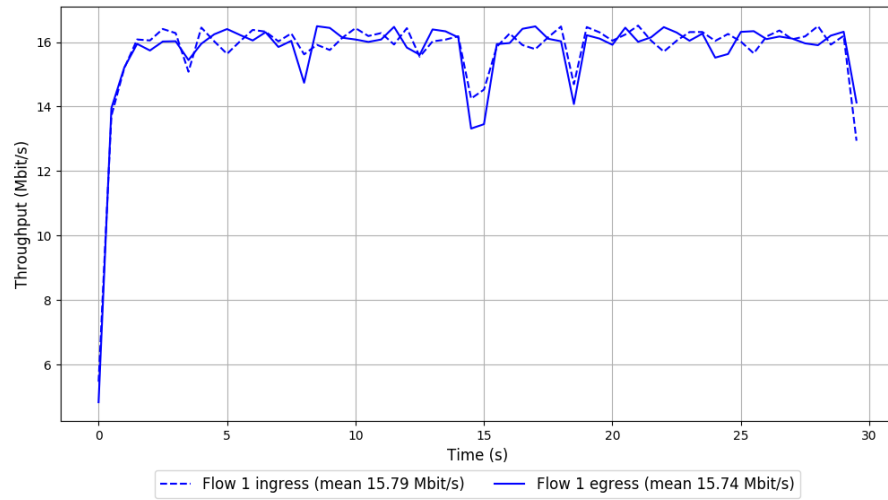
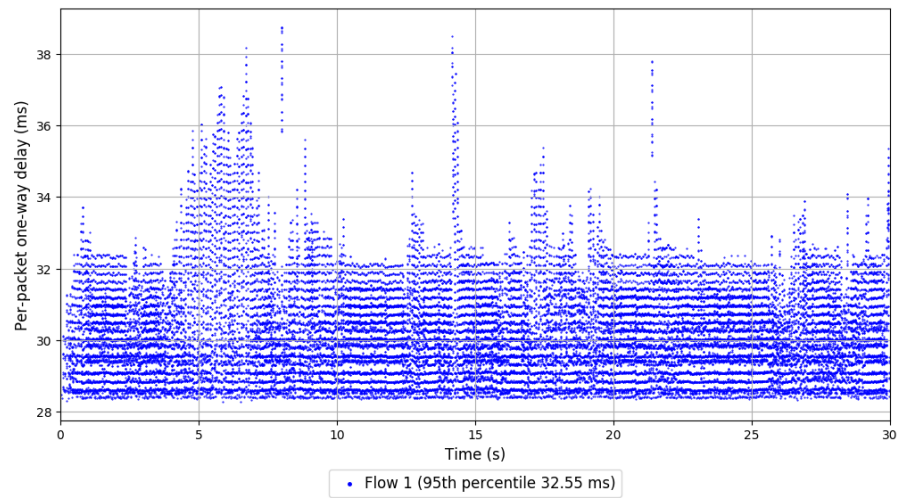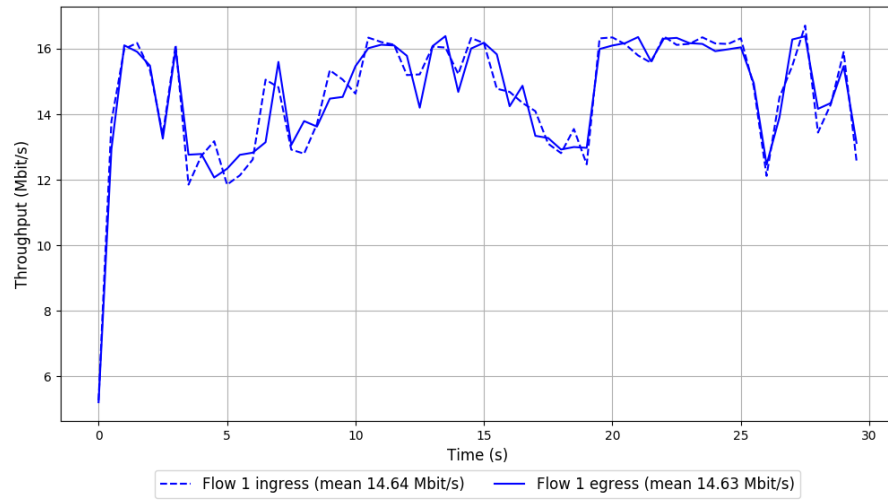Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2018-01-26 02:44:13
End at: 2018-01-26 02:44:43
Local clock offset: 1.315 ms
Remote clock offset: -3.092 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.10 Mbit/s
95th percentile per-packet one-way delay: 33.038 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 15.10 Mbit/s
95th percentile per-packet one-way delay: 33.038 ms
Loss rate: 0.28%
```

Run 7: Report of Sprout — Data Link

Flow 1 ingress (mean 15.14 Mbit/s) ----- Flow 1 egress (mean 15.10 Mbit/s)

• Flow 1 (95th percentile 33.04 ms)

```
Run 8: Statistics of Sprout

Start at: 2018-01-26 03:06:03
End at: 2018-01-26 03:06:33
Local clock offset: 1.126 ms
Remote clock offset: -2.744 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.74 Mbit/s
95th percentile per-packet one-way delay: 31.896 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 15.74 Mbit/s
95th percentile per-packet one-way delay: 31.896 ms
Loss rate: 0.29%
```
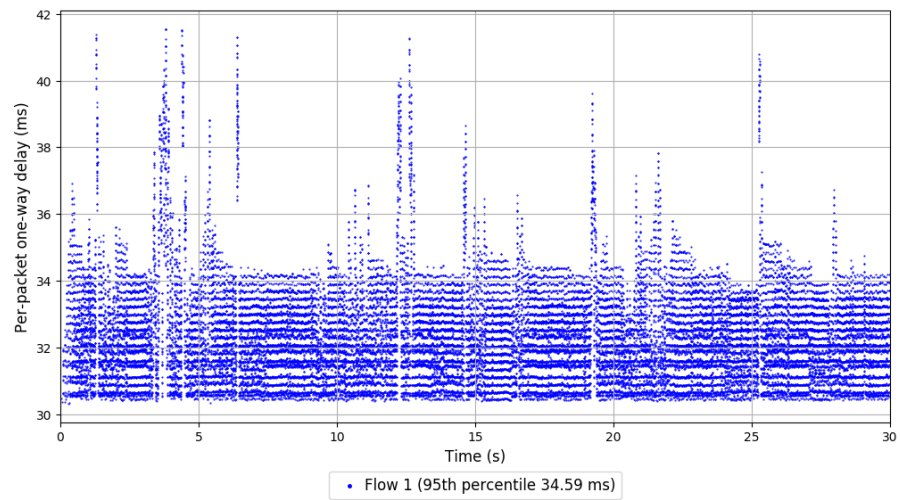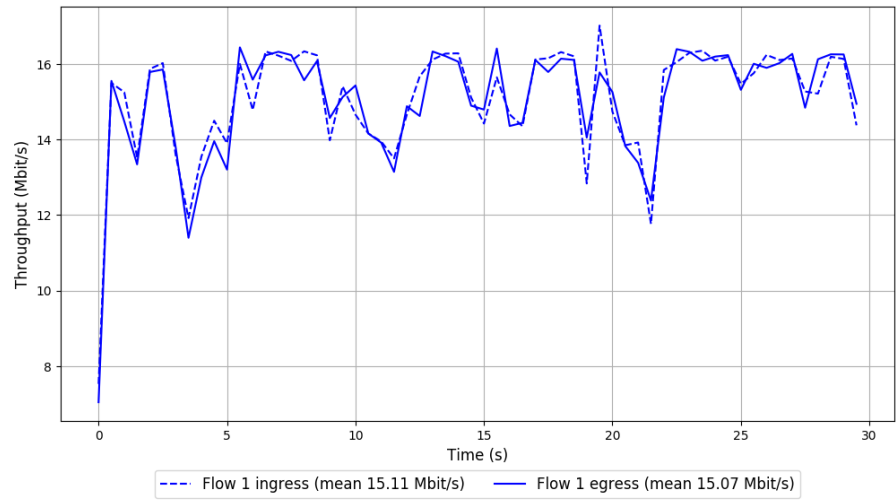
Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2018-01-26 03:28:02
End at: 2018-01-26 03:28:32
Local clock offset: 0.939 ms
Remote clock offset: -2.576 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 32.548 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 32.548 ms
Loss rate: 0.09%
```
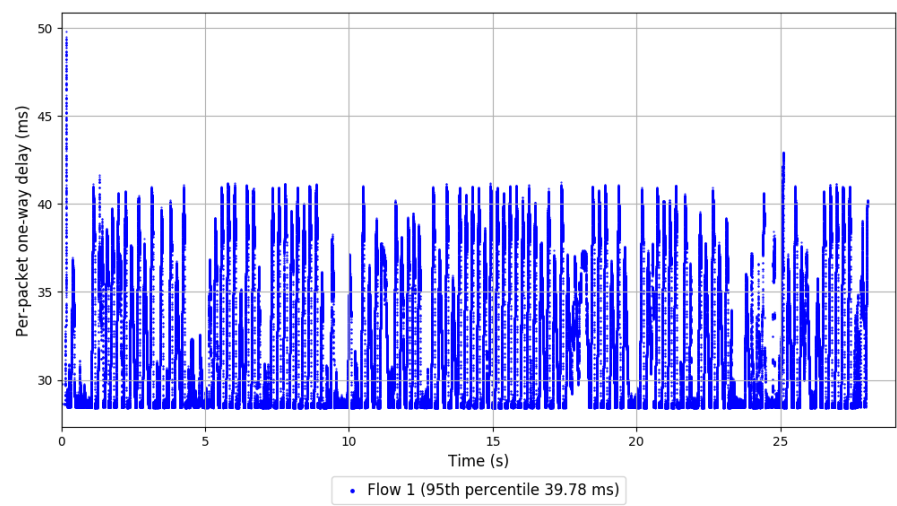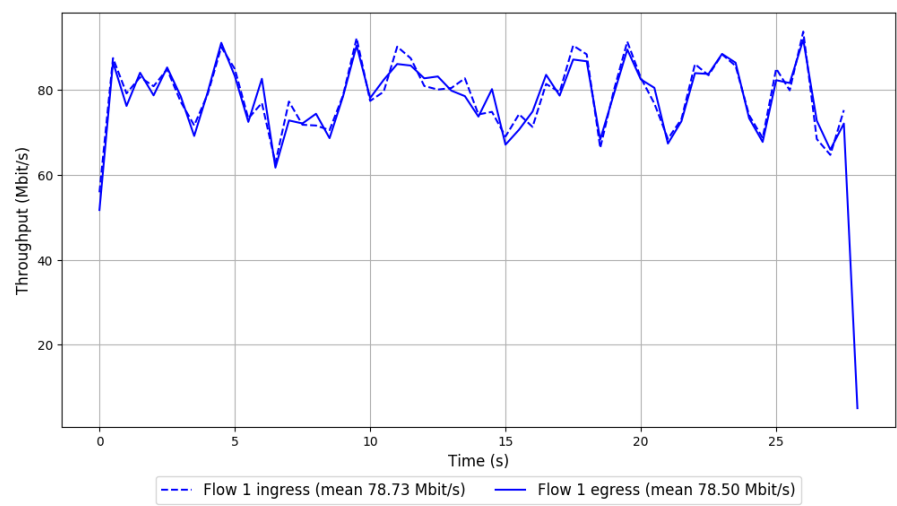
Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2018-01-26 03:50:24
End at: 2018-01-26 03:50:54
Local clock offset: 0.942 ms
Remote clock offset: -0.373 ms


# Below is generated by plot.py at 2018-01-26 10:07:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.07 Mbit/s
95th percentile per-packet one-way delay: 34.586 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 15.07 Mbit/s
95th percentile per-packet one-way delay: 34.586 ms
Loss rate: 0.26%
```
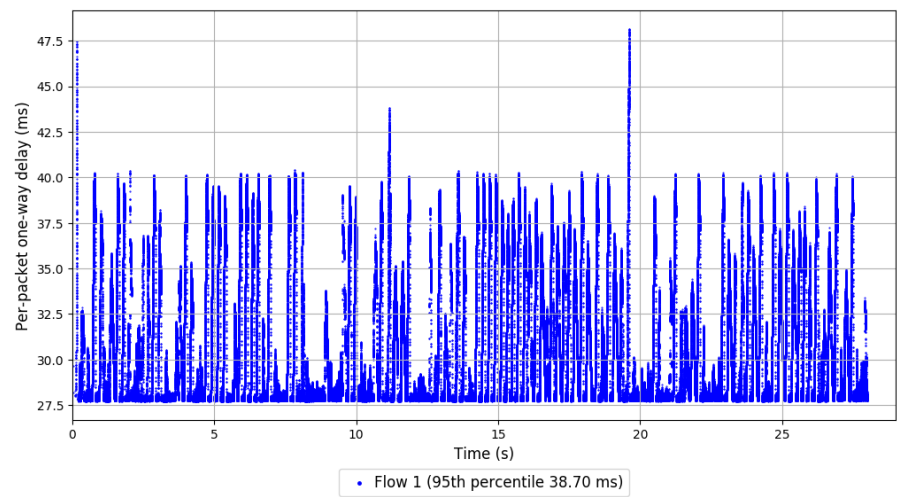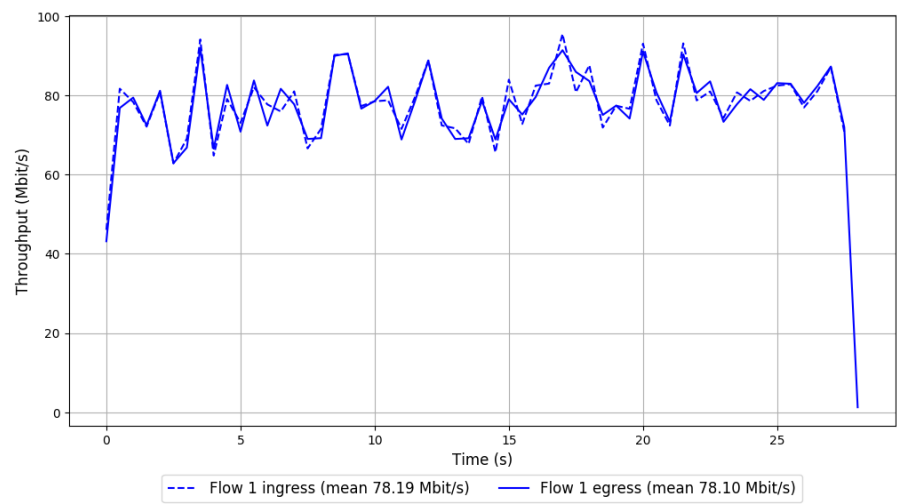
Run 10: Report of Sprout — Data Link

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

Start at: 2018-01-26 00:16:43
End at: 2018-01-26 00:17:13
Local clock offset: 0.914 ms
Remote clock offset: -3.267 ms


# Below is generated by plot.py at 2018-01-26 10:09:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.50 Mbit/s
95th percentile per-packet one-way delay: 39.778 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 78.50 Mbit/s
95th percentile per-packet one-way delay: 39.778 ms
Loss rate: 0.26%
```
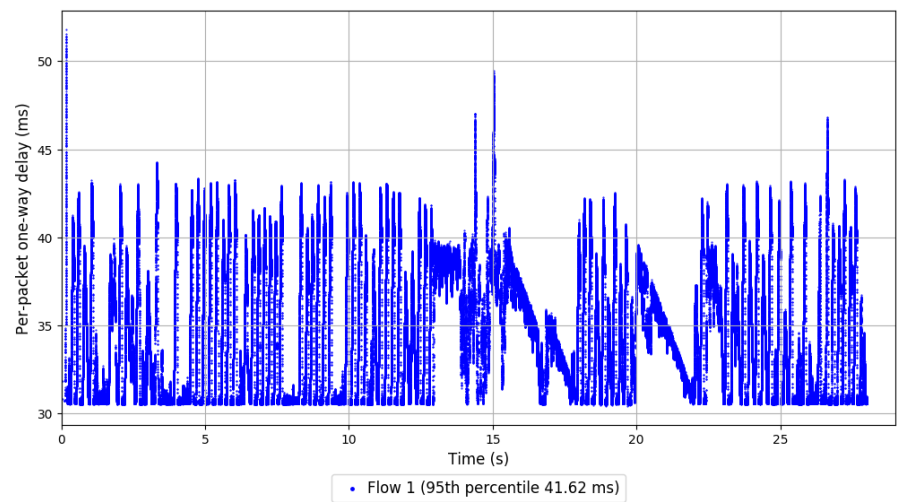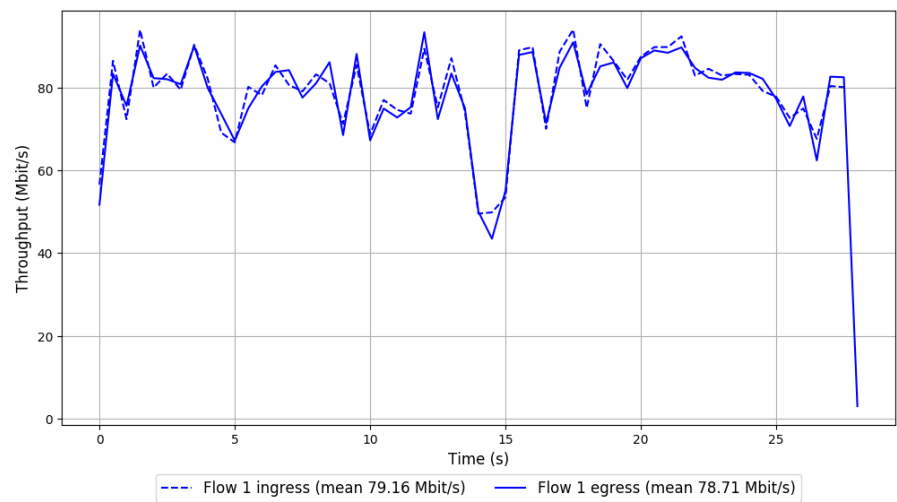
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 78.73 Mbit/s) —— Flow 1 egress (mean 78.50 Mbit/s)

• Flow 1 (95th percentile 39.78 ms)

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

Start at: 2018-01-26 00:40:08
End at: 2018-01-26 00:40:38
Local clock offset: 1.026 ms
Remote clock offset: -3.281 ms


# Below is generated by plot.py at 2018-01-26 10:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 38.697 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 78.10 Mbit/s
95th percentile per-packet one-way delay: 38.697 ms
Loss rate: 0.12%
```
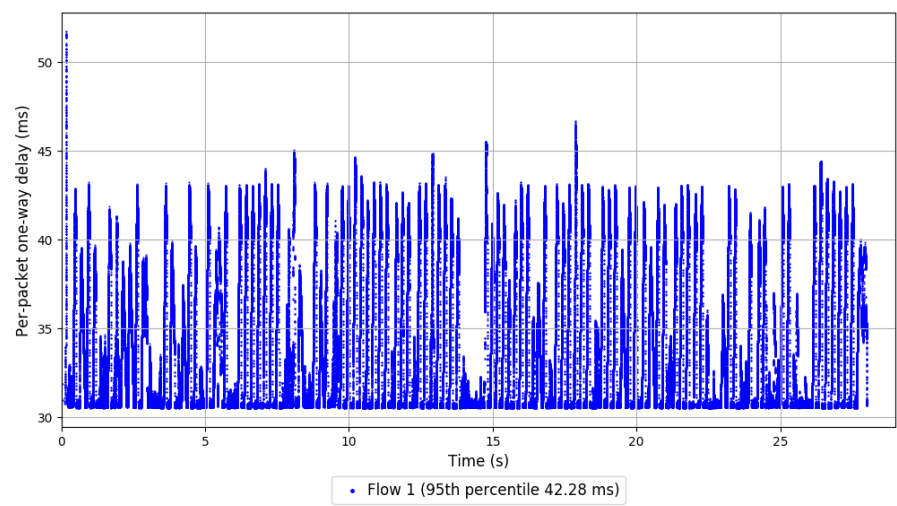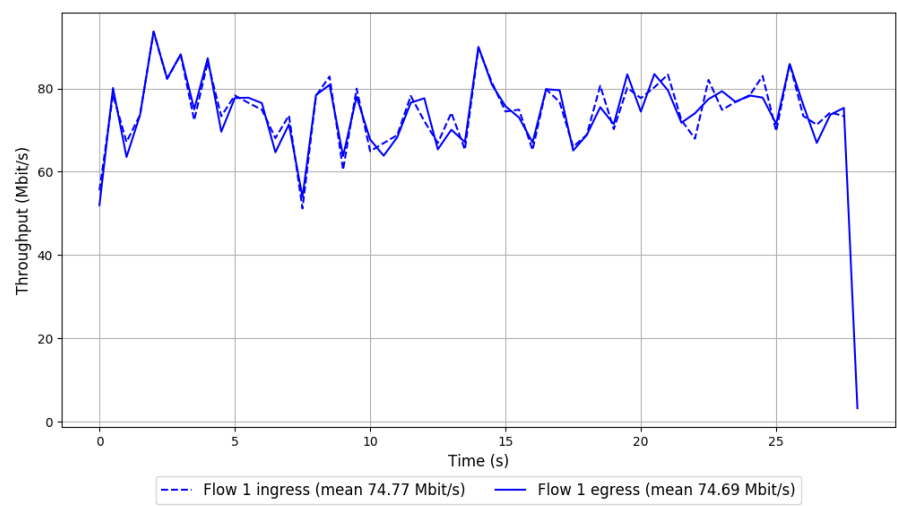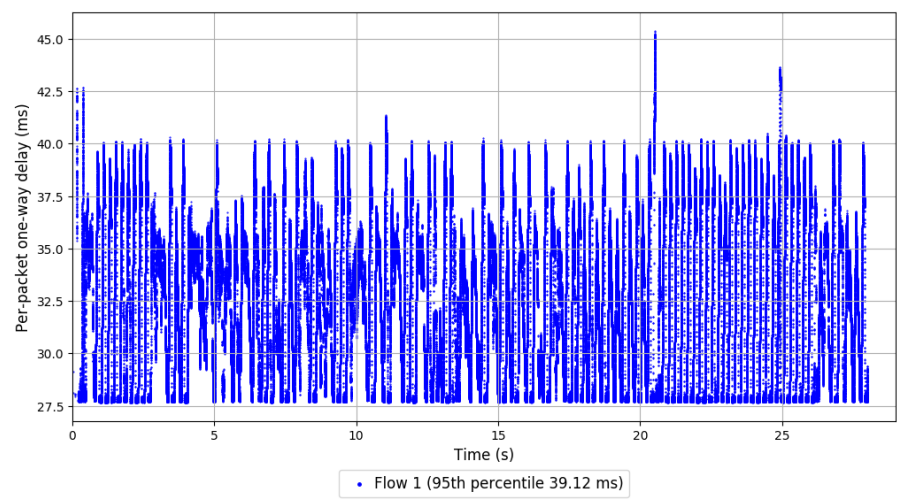
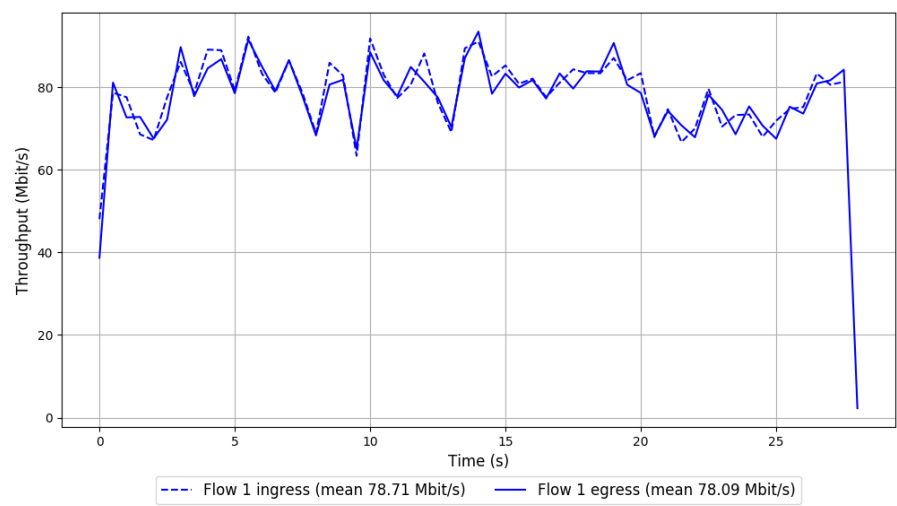Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2018-01-26 01:04:02
End at: 2018-01-26 01:04:32
Local clock offset: 1.109 ms
Remote clock offset: -1.542 ms

# Below is generated by plot.py at 2018-01-26 10:09:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.71 Mbit/s
95th percentile per-packet one-way delay: 41.616 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 78.71 Mbit/s
95th percentile per-packet one-way delay: 41.616 ms
Loss rate: 0.58%
```

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

Flow 1 ingress (mean 79.16 Mbit/s)   Flow 1 egress (mean 78.71 Mbit/s)

Flow 1 (95th percentile 41.62 ms)

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

Start at: 2018-01-26 01:27:18
End at: 2018-01-26 01:27:48
Local clock offset: 1.257 ms
Remote clock offset: -1.73 ms


# Below is generated by plot.py at 2018-01-26 10:09:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.69 Mbit/s
95th percentile per-packet one-way delay: 42.278 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 74.69 Mbit/s
95th percentile per-packet one-way delay: 42.278 ms
Loss rate: 0.10%
```
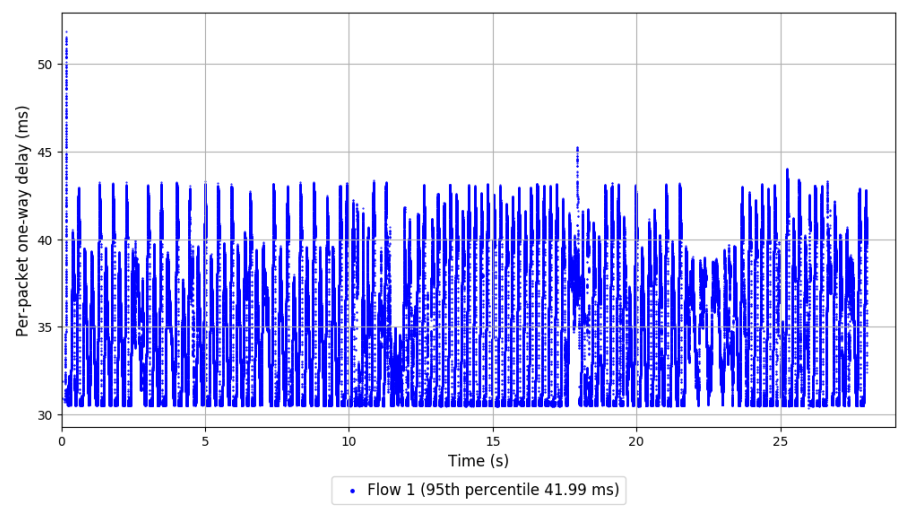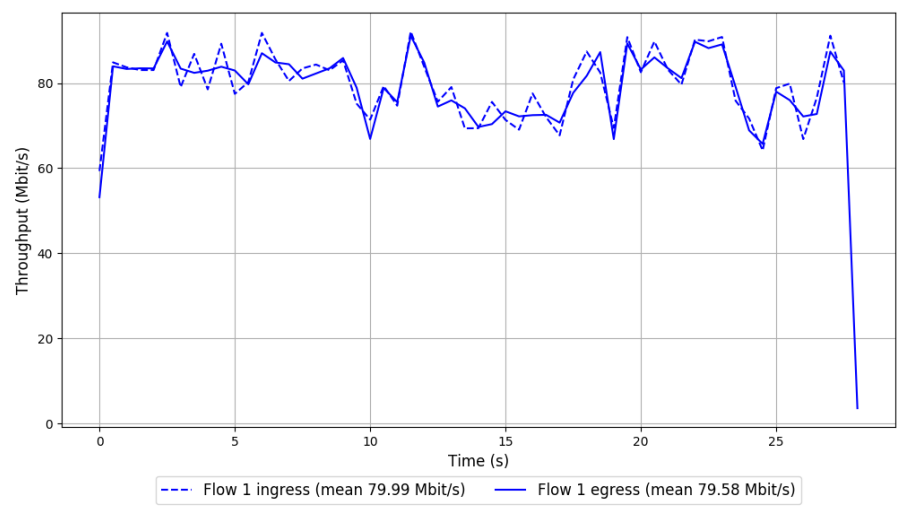
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 74.77 Mbit/s) --- Flow 1 egress (mean 74.69 Mbit/s)

Flow 1 (95th percentile 42.28 ms)

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

Start at: 2018-01-26 01:50:07
End at: 2018-01-26 01:50:37
Local clock offset: 1.336 ms
Remote clock offset: -4.446 ms


# Below is generated by plot.py at 2018-01-26 10:09:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 39.119 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 39.119 ms
Loss rate: 0.78%
```
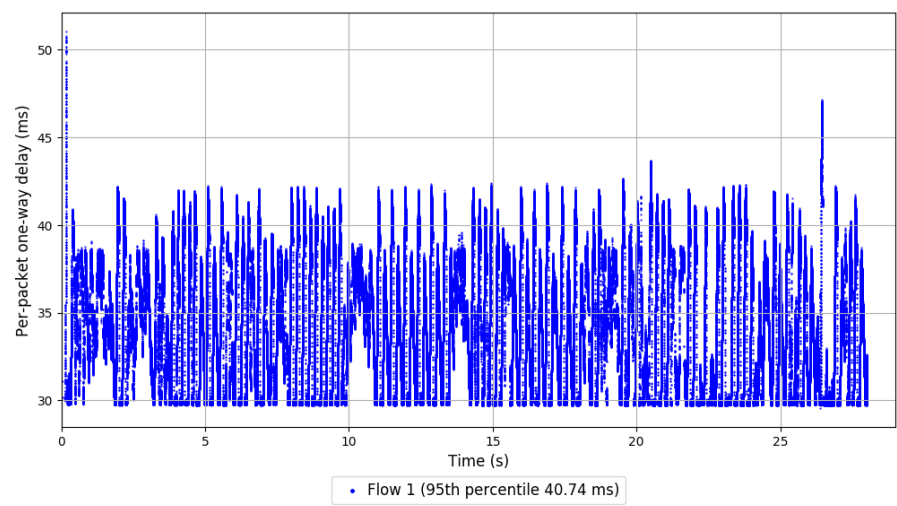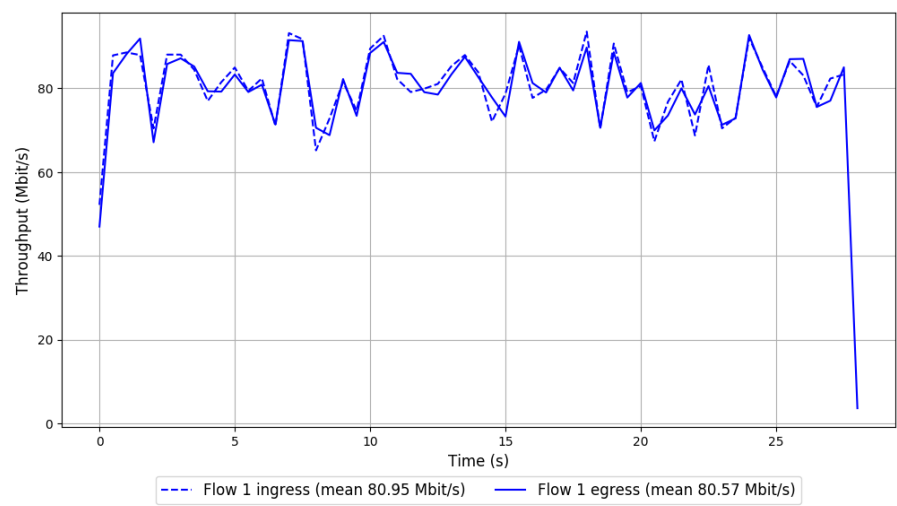
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 78.71 Mbit/s) --- Flow 1 egress (mean 78.09 Mbit/s)

Flow 1 (95th percentile 39.12 ms)

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

Start at: 2018-01-26 02:11:33
End at: 2018-01-26 02:12:03
Local clock offset: 1.282 ms
Remote clock offset: -2.219 ms


# Below is generated by plot.py at 2018-01-26 10:09:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.58 Mbit/s
95th percentile per-packet one-way delay: 41.989 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 79.58 Mbit/s
95th percentile per-packet one-way delay: 41.989 ms
Loss rate: 0.51%
```
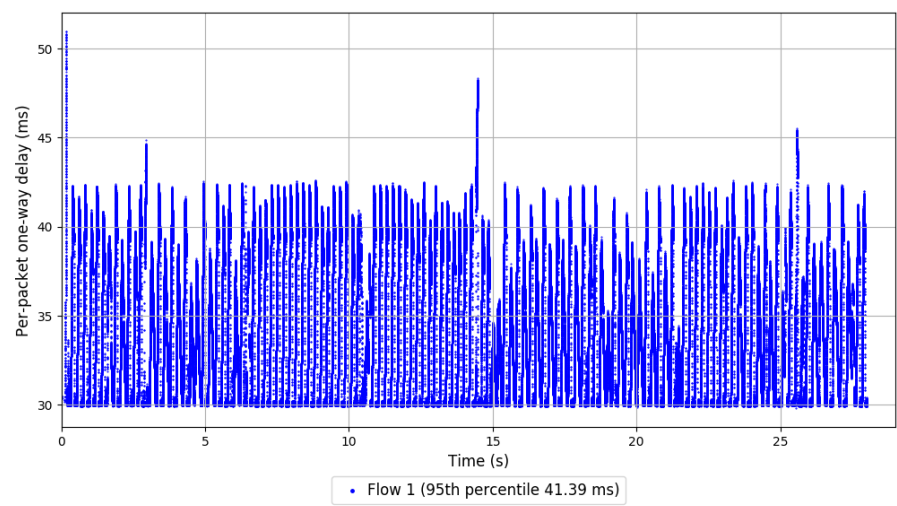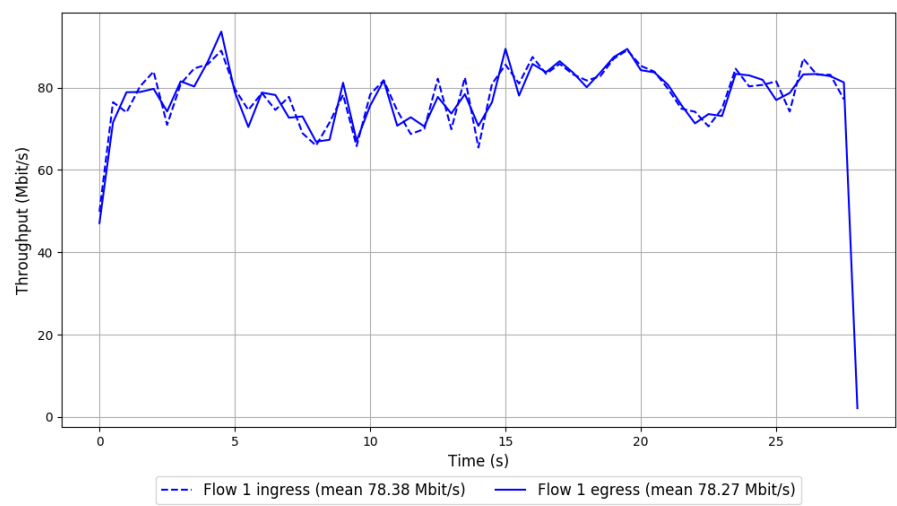
Run 6: Report of TaoVA-100x — Data Link

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

Start at: 2018-01-26 02:33:04
End at: 2018-01-26 02:33:35
Local clock offset: 1.378 ms
Remote clock offset: -1.364 ms


# Below is generated by plot.py at 2018-01-26 10:09:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.57 Mbit/s
95th percentile per-packet one-way delay: 40.742 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 80.57 Mbit/s
95th percentile per-packet one-way delay: 40.742 ms
Loss rate: 0.47%
```
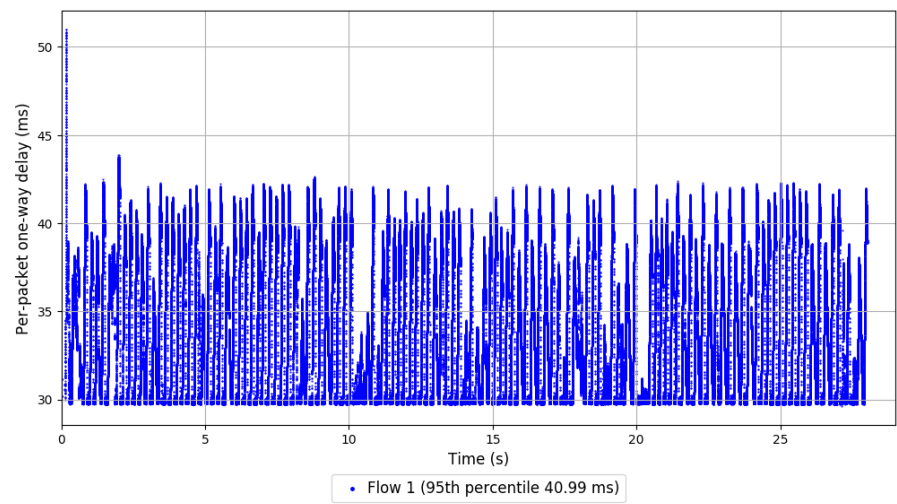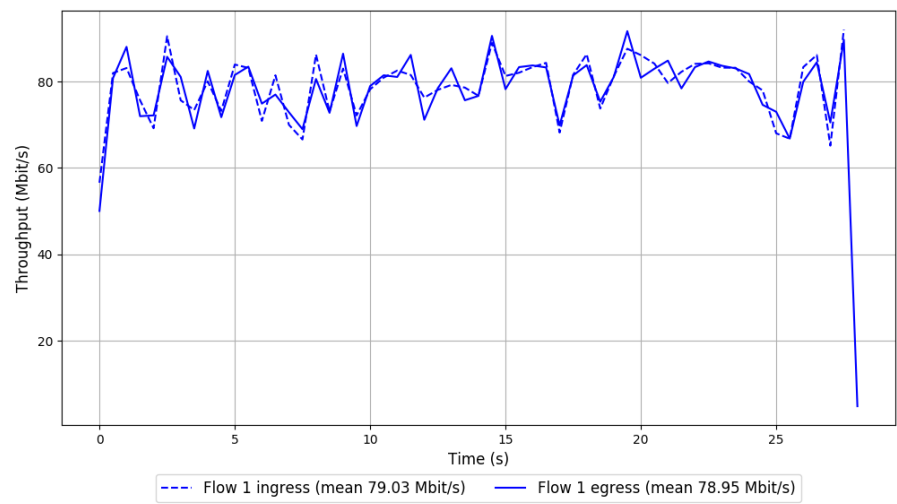
Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 80.95 Mbit/s) ----- Flow 1 egress (mean 80.57 Mbit/s)

· Flow 1 (95th percentile 40.74 ms)

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

Start at: 2018-01-26 02:55:18
End at: 2018-01-26 02:55:48
Local clock offset: 1.195 ms
Remote clock offset: -0.72 ms


# Below is generated by plot.py at 2018-01-26 10:09:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.27 Mbit/s
95th percentile per-packet one-way delay: 41.386 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 78.27 Mbit/s
95th percentile per-packet one-way delay: 41.386 ms
Loss rate: 0.14%
```
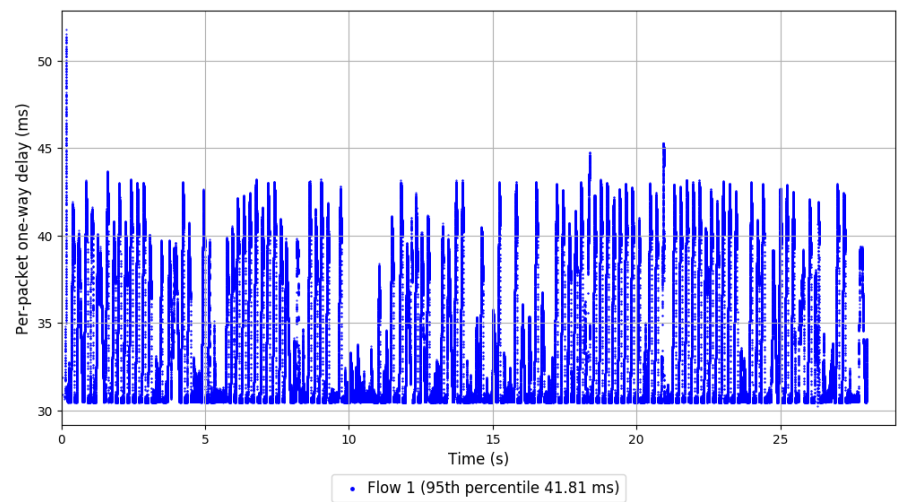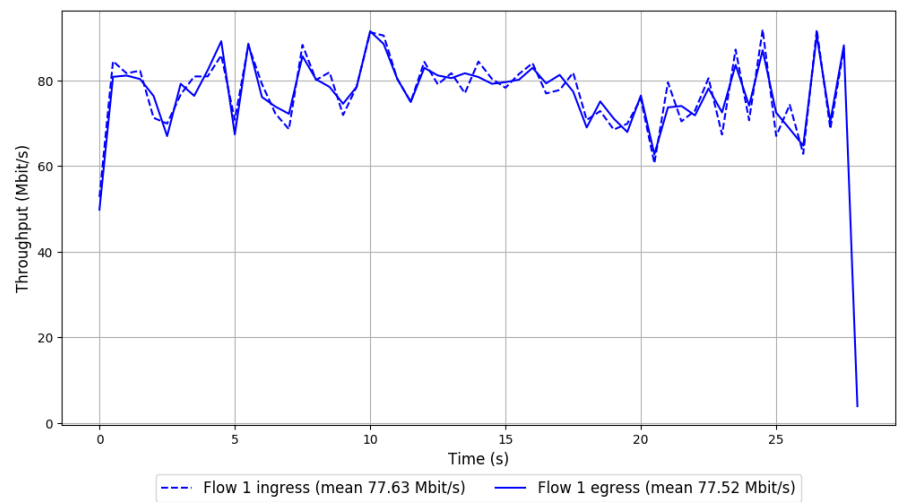
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 78.38 Mbit/s) ----- Flow 1 egress (mean 78.27 Mbit/s) ——

Flow 1 (95th percentile 41.39 ms)

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

Start at: 2018-01-26 03:16:53
End at: 2018-01-26 03:17:23
Local clock offset: 1.112 ms
Remote clock offset: -0.437 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.95 Mbit/s
95th percentile per-packet one-way delay: 40.991 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 78.95 Mbit/s
95th percentile per-packet one-way delay: 40.991 ms
Loss rate: 0.07%
```
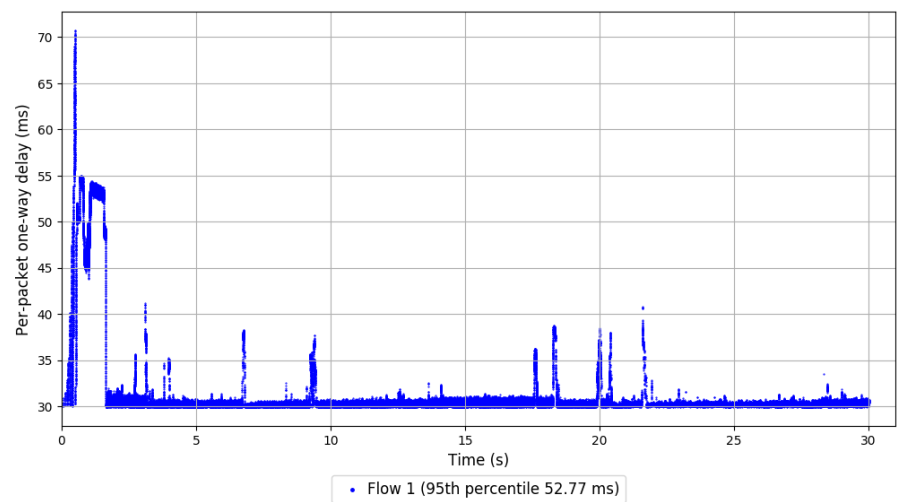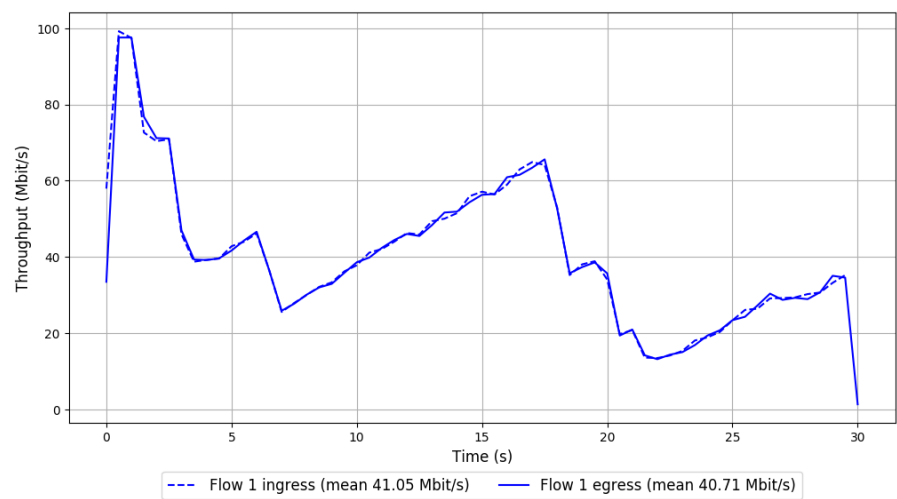
Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 79.03 Mbit/s)   Flow 1 egress (mean 78.95 Mbit/s)

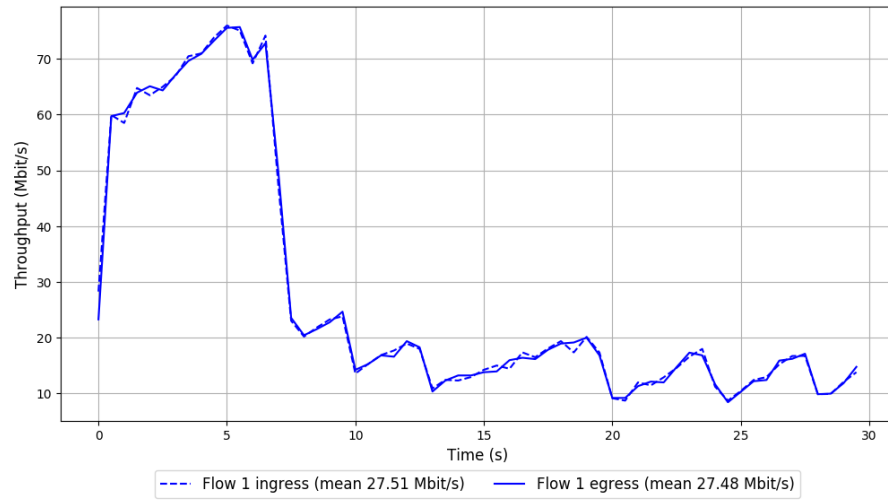

• Flow 1 (95th percentile 40.99 ms)

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

Start at: 2018-01-26 03:39:06
End at: 2018-01-26 03:39:36
Local clock offset: 0.895 ms
Remote clock offset: -0.433 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.52 Mbit/s
95th percentile per-packet one-way delay: 41.808 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 77.52 Mbit/s
95th percentile per-packet one-way delay: 41.808 ms
Loss rate: 0.12%
```
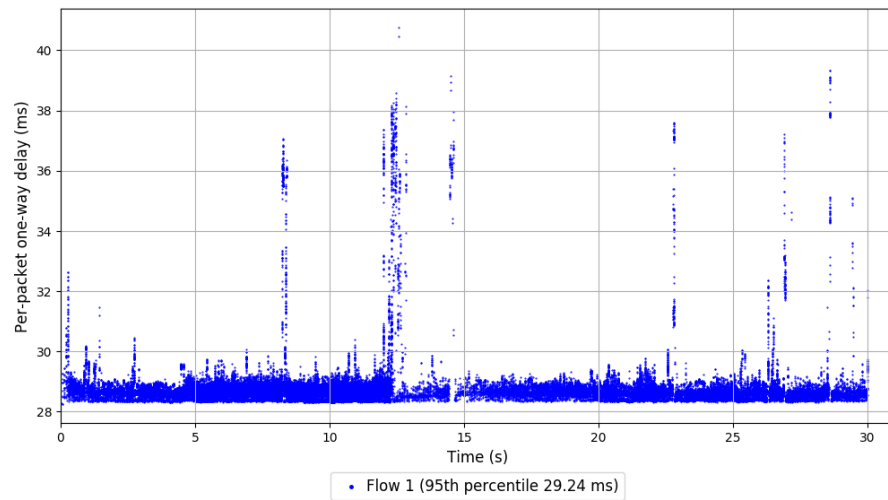
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 77.63 Mbit/s) — Flow 1 egress (mean 77.52 Mbit/s)

Flow 1 (95th percentile 41.81 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 00:11:02
End at: 2018-01-26 00:11:32
Local clock offset: 0.762 ms
Remote clock offset: -1.293 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 52.775 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 52.775 ms
Loss rate: 0.81%
```
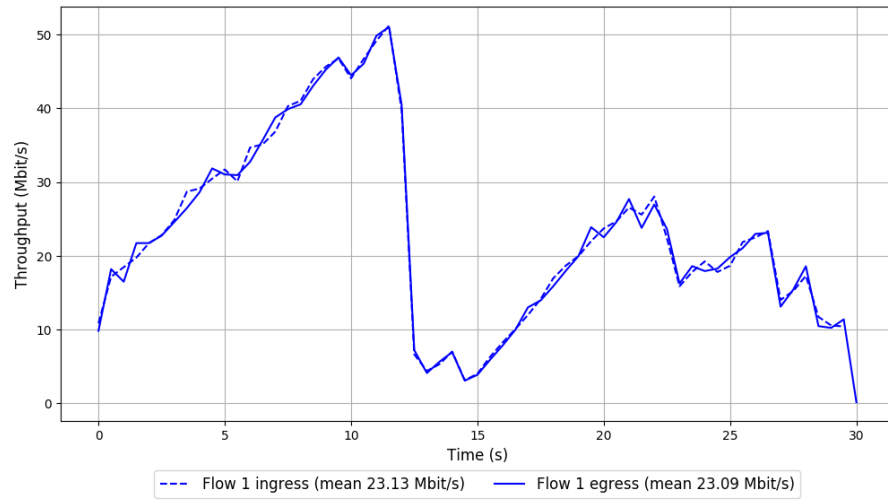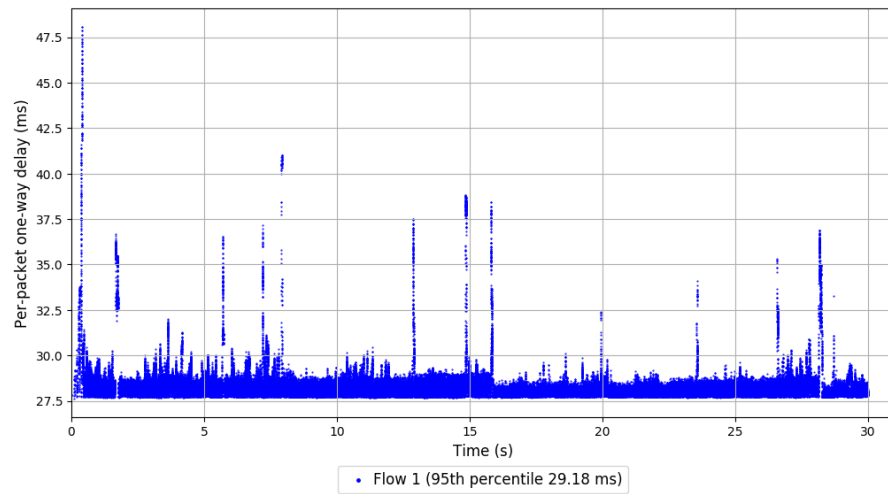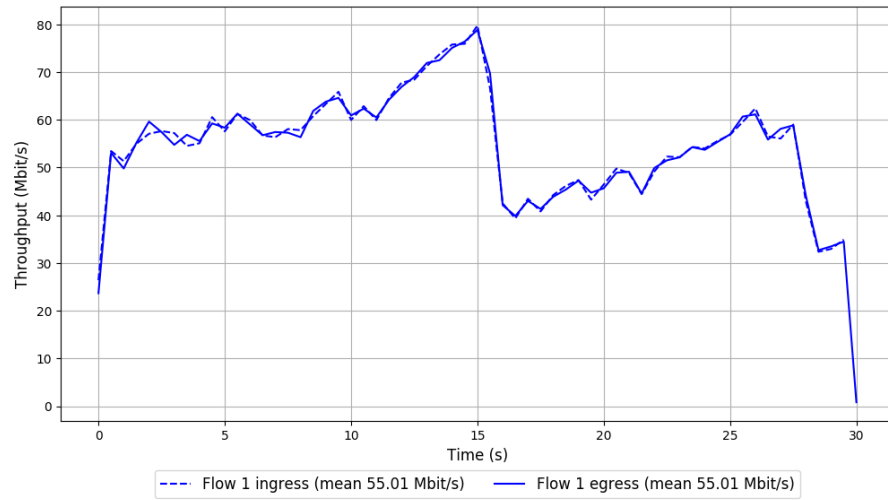
Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 41.05 Mbit/s) Flow 1 egress (mean 40.71 Mbit/s)

Flow 1 (95th percentile 52.77 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 00:34:04
End at: 2018-01-26 00:34:34
Local clock offset: 0.984 ms
Remote clock offset: -1.213 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.48 Mbit/s
95th percentile per-packet one-way delay: 33.004 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 27.48 Mbit/s
95th percentile per-packet one-way delay: 33.004 ms
Loss rate: 0.12%
```
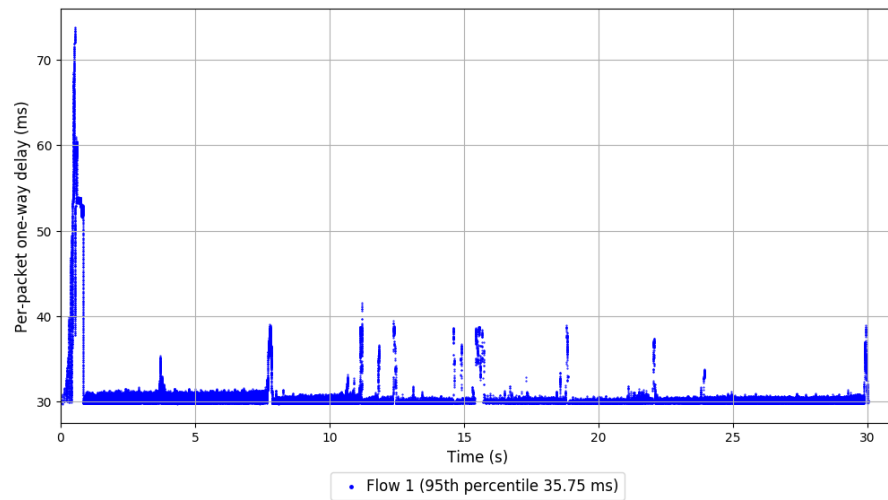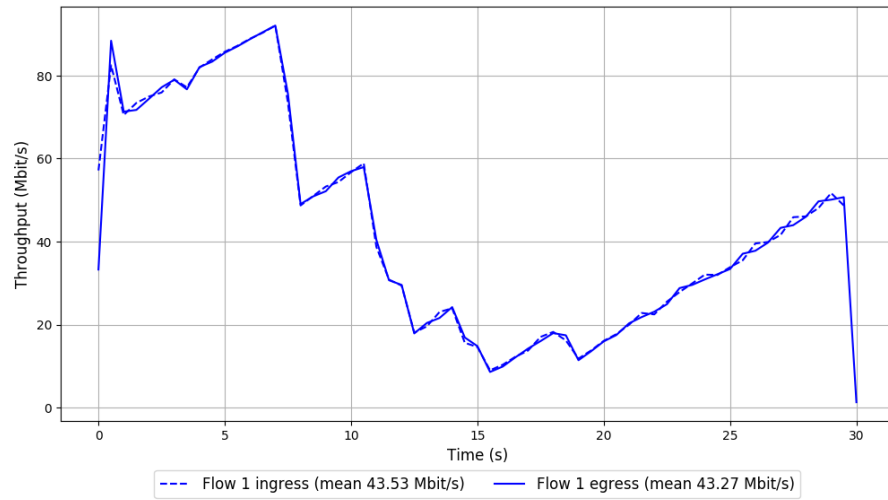
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 00:58:18
End at: 2018-01-26 00:58:48
Local clock offset: 1.171 ms
Remote clock offset: -3.62 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 29.236 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 29.236 ms
Loss rate: 0.17%
```
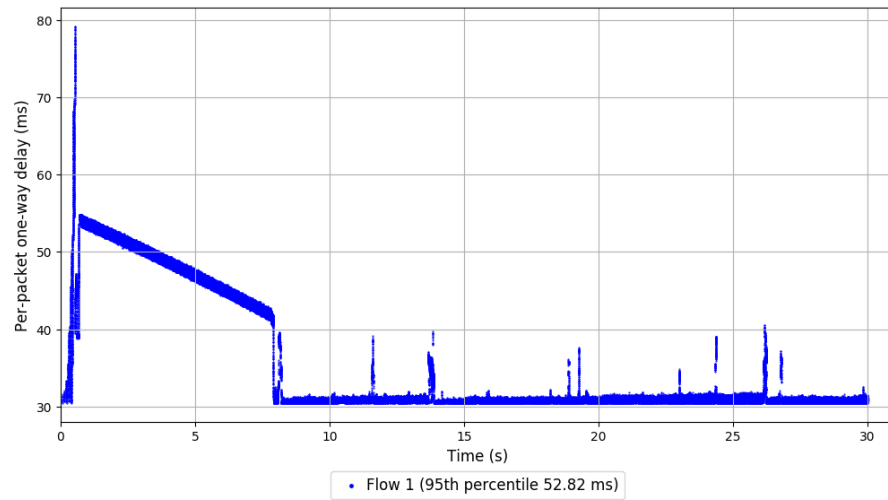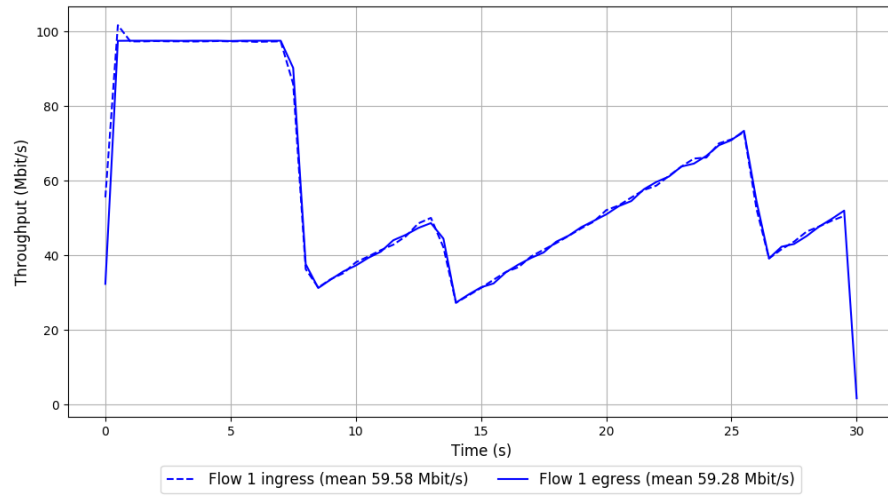
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 23.13 Mbit/s) --- Flow 1 egress (mean 23.09 Mbit/s)

• Flow 1 (95th percentile 29.24 ms)

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```
Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 01:21:11
End at: 2018-01-26 01:21:41
Local clock offset: 1.331 ms
Remote clock offset: -3.714 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 29.179 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 55.01 Mbit/s
95th percentile per-packet one-way delay: 29.179 ms
Loss rate: 0.01%
```
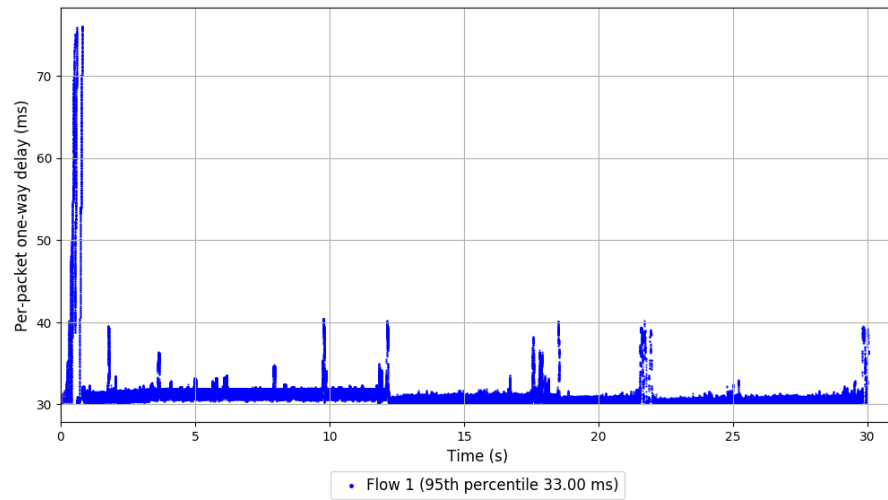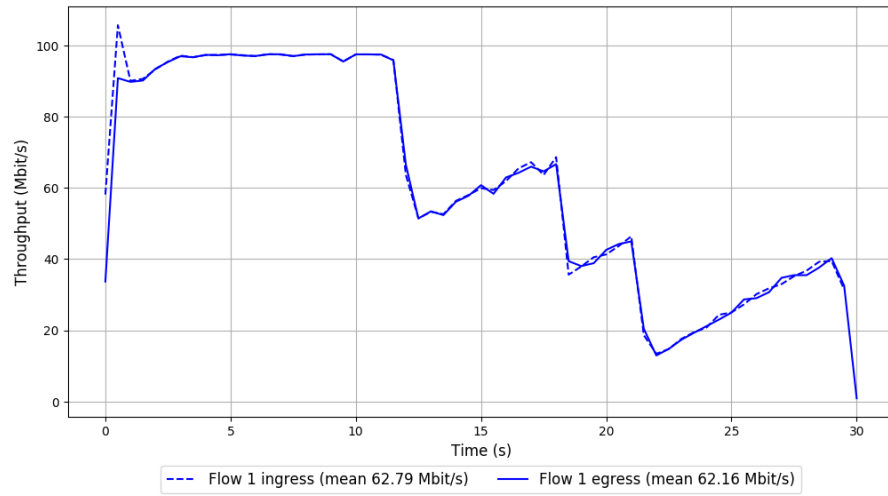
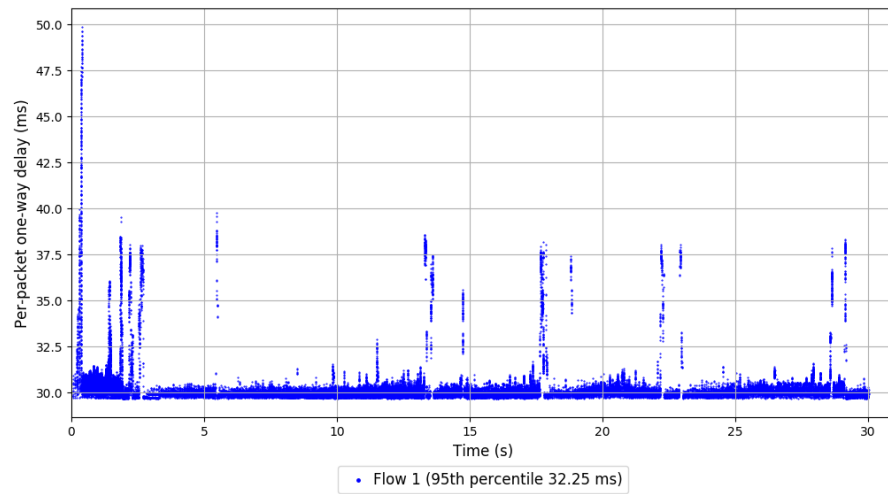# Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 01:44:31
End at: 2018-01-26 01:45:01
Local clock offset: 1.423 ms
Remote clock offset: -2.098 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.27 Mbit/s
95th percentile per-packet one-way delay: 35.754 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 43.27 Mbit/s
95th percentile per-packet one-way delay: 35.754 ms
Loss rate: 0.59%
```
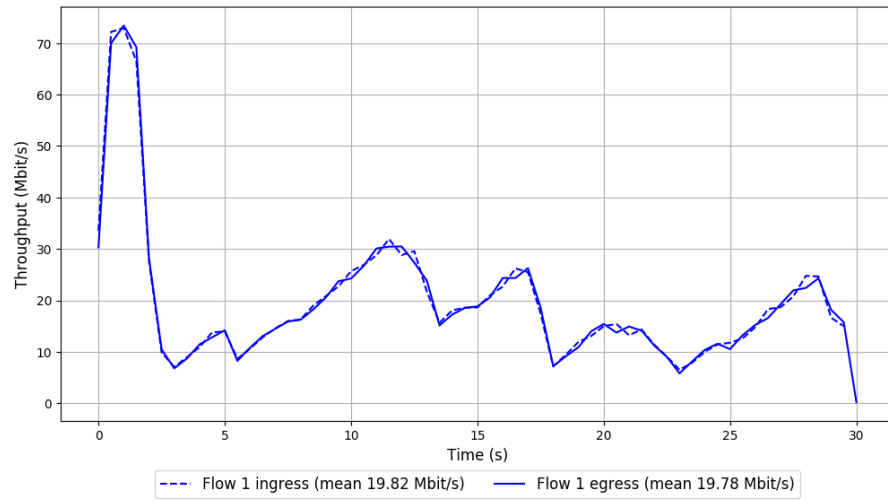
Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 02:06:07
End at: 2018-01-26 02:06:37
Local clock offset: 1.302 ms
Remote clock offset: -2.362 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.28 Mbit/s
95th percentile per-packet one-way delay: 52.818 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 59.28 Mbit/s
95th percentile per-packet one-way delay: 52.818 ms
Loss rate: 0.49%
```
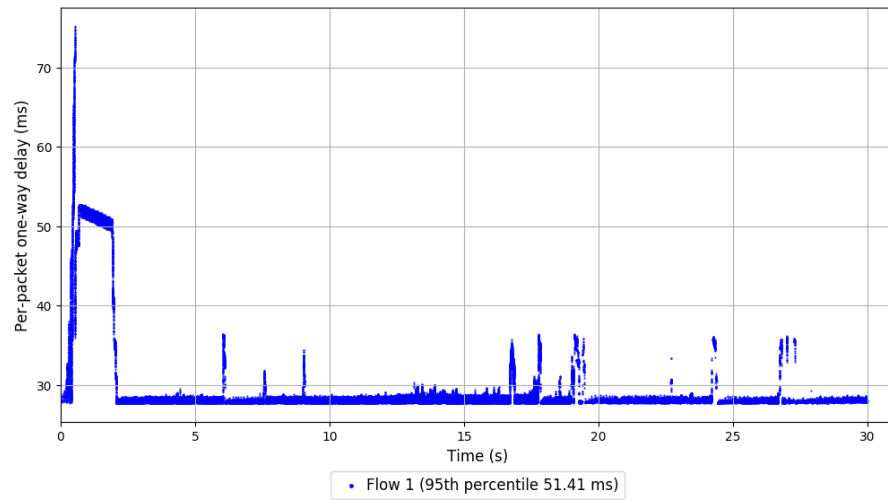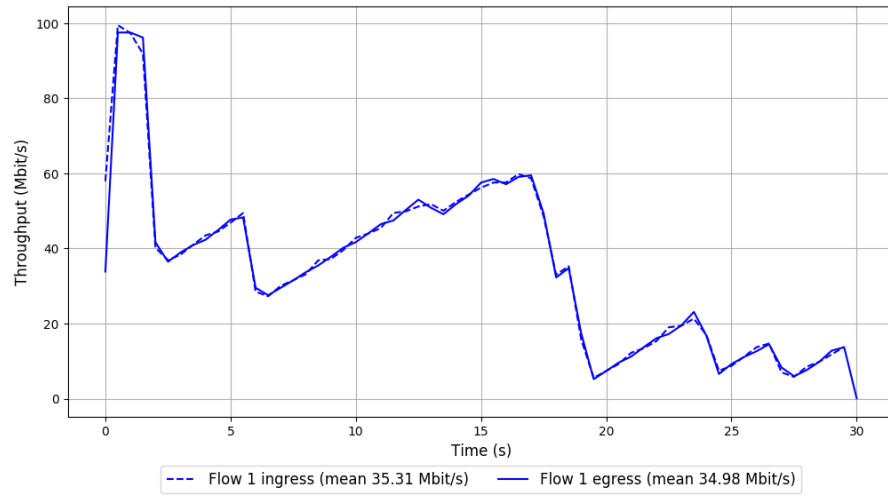
Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 59.58 Mbit/s) ---- Flow 1 egress (mean 59.28 Mbit/s)

· Flow 1 (95th percentile 52.82 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 02:27:25
End at: 2018-01-26 02:27:55
Local clock offset: 1.371 ms
Remote clock offset: -1.222 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.16 Mbit/s
95th percentile per-packet one-way delay: 33.002 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 62.16 Mbit/s
95th percentile per-packet one-way delay: 33.002 ms
Loss rate: 0.98%
```
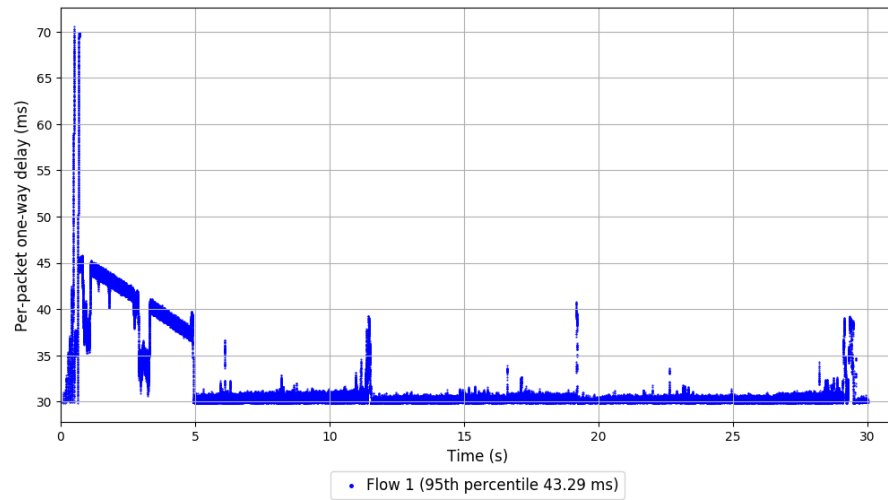
Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 62.79 Mbit/s)   Flow 1 egress (mean 62.16 Mbit/s)

Flow 1 (95th percentile 33.00 ms)

```
Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 02:49:46
End at: 2018-01-26 02:50:16
Local clock offset: 1.293 ms
Remote clock offset: -1.017 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 32.251 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 19.78 Mbit/s
95th percentile per-packet one-way delay: 32.251 ms
Loss rate: 0.22%
```
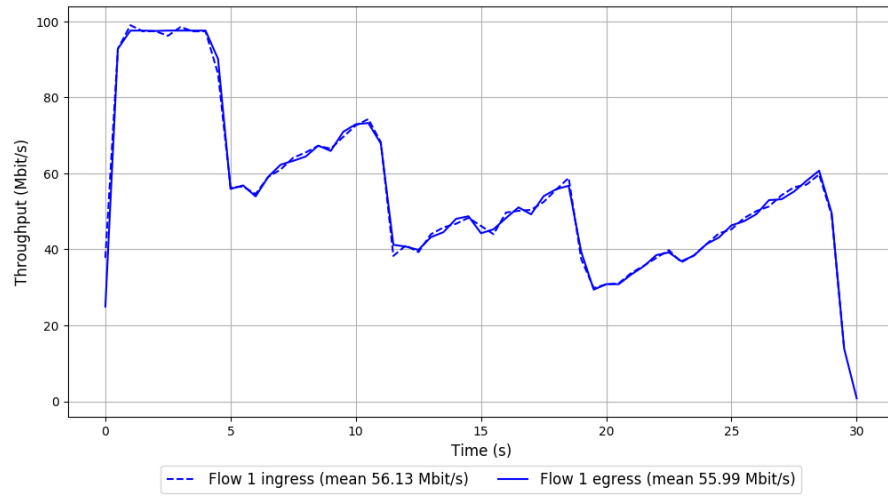
Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 03:11:21
End at: 2018-01-26 03:11:51
Local clock offset: 1.099 ms
Remote clock offset: -2.576 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.98 Mbit/s
95th percentile per-packet one-way delay: 51.411 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 34.98 Mbit/s
95th percentile per-packet one-way delay: 51.411 ms
Loss rate: 0.93%
```
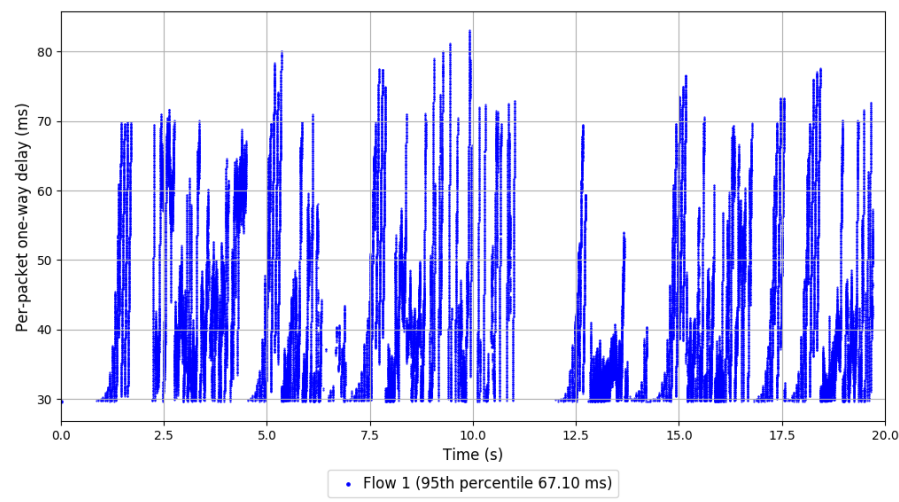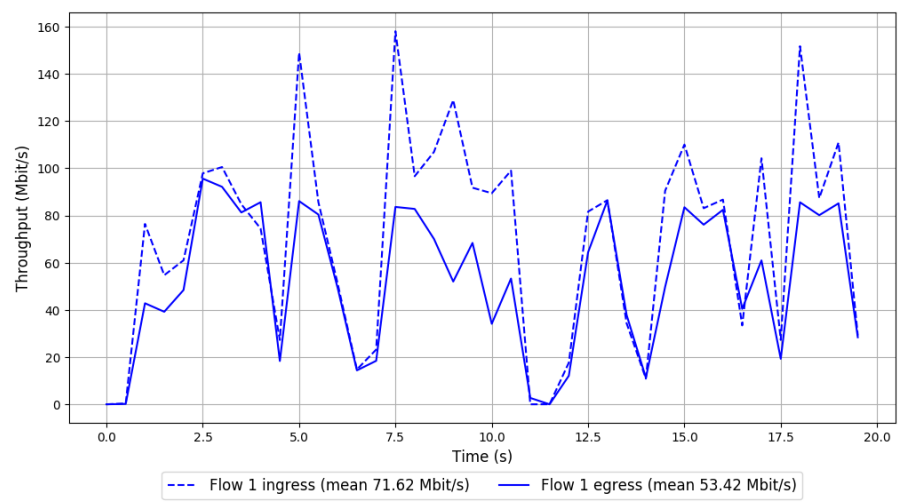
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 35.31 Mbit/s)   Flow 1 egress (mean 34.98 Mbit/s)
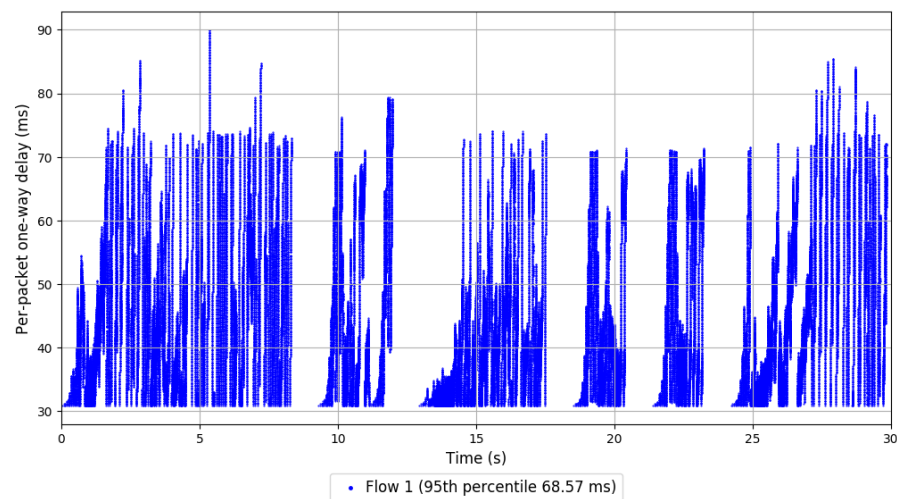

Flow 1 (95th percentile 51.41 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 03:33:24
End at: 2018-01-26 03:33:54
Local clock offset: 0.897 ms
Remote clock offset: -0.365 ms


# Below is generated by plot.py at 2018-01-26 10:11:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 43.286 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 55.99 Mbit/s
95th percentile per-packet one-way delay: 43.286 ms
Loss rate: 0.25%
```

Run 10: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 56.13 Mbit/s) Flow 1 egress (mean 55.99 Mbit/s)

Flow 1 (95th percentile 43.29 ms)

```
Run 1: Statistics of Verus

Start at: 2018-01-26 00:13:55
End at: 2018-01-26 00:14:25
Local clock offset: 0.907 ms
Remote clock offset: -1.388 ms
```
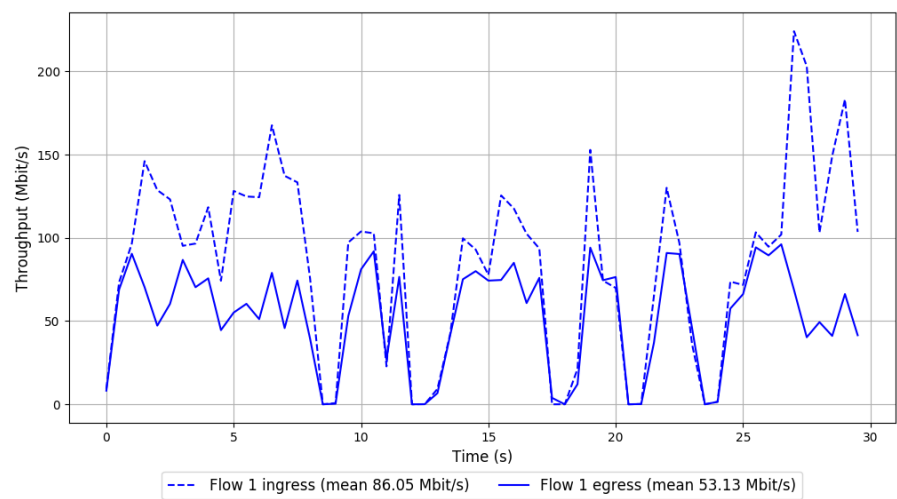
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2018-01-26 00:36:57
End at: 2018-01-26 00:37:28
Local clock offset: 1.014 ms
Remote clock offset: -3.322 ms
```
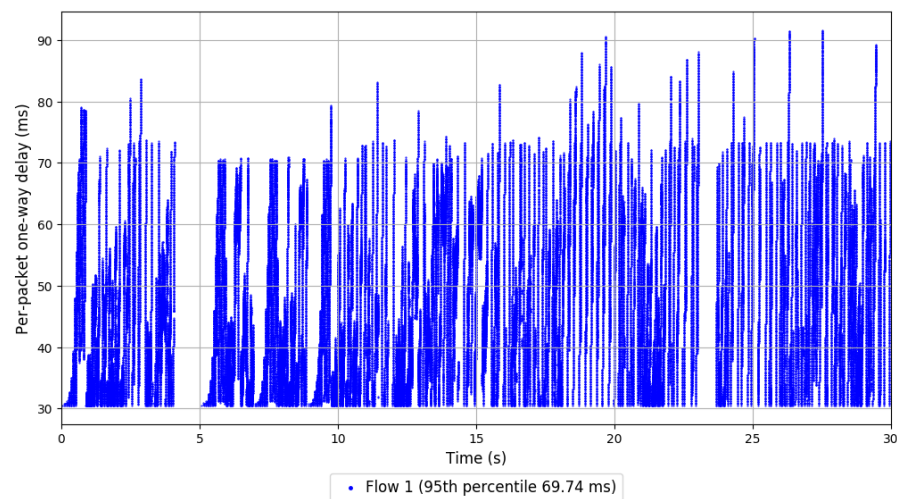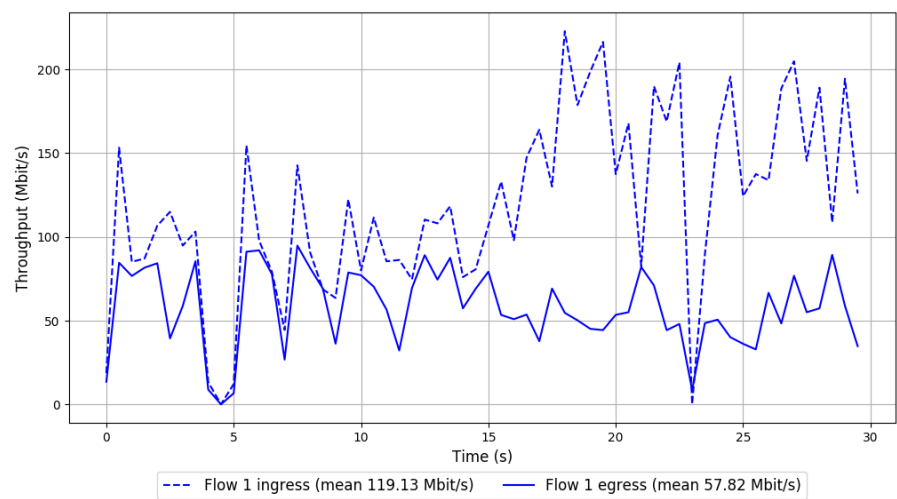
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2018-01-26 01:01:11
End at: 2018-01-26 01:01:41
Local clock offset: 1.201 ms
Remote clock offset: -1.117 ms
```
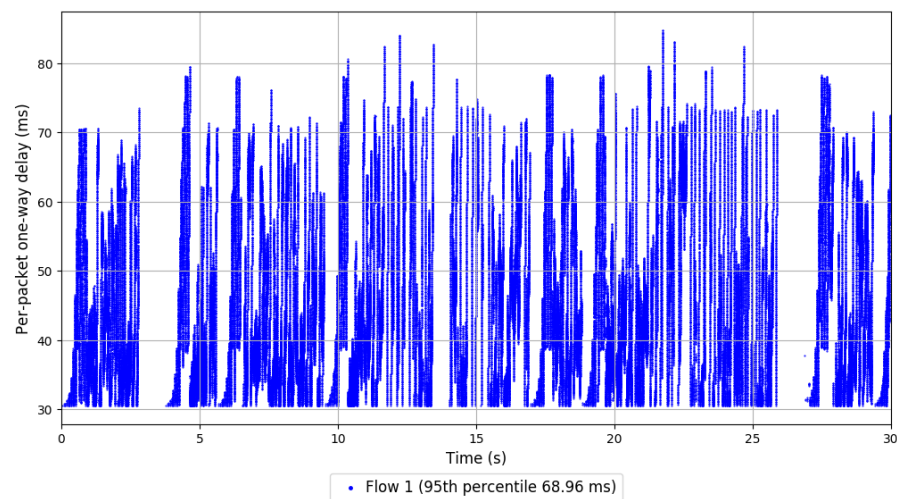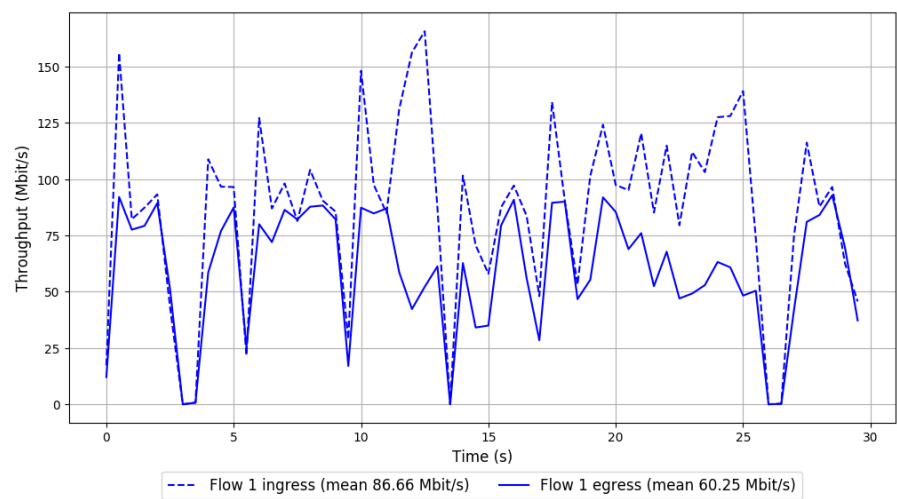
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-01-26 01:24:23
End at: 2018-01-26 01:24:53
Local clock offset: 1.377 ms
Remote clock offset: -1.194 ms


# Below is generated by plot.py at 2018-01-26 10:11:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.13 Mbit/s
95th percentile per-packet one-way delay: 68.571 ms
Loss rate: 38.18%
-- Flow 1:
Average throughput: 53.13 Mbit/s
95th percentile per-packet one-way delay: 68.571 ms
Loss rate: 38.18%
```

Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2018-01-26 01:47:18
End at: 2018-01-26 01:47:48
Local clock offset: 1.44 ms
Remote clock offset: -2.138 ms


# Below is generated by plot.py at 2018-01-26 10:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 69.740 ms
Loss rate: 51.40%
-- Flow 1:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 69.740 ms
Loss rate: 51.40%
```
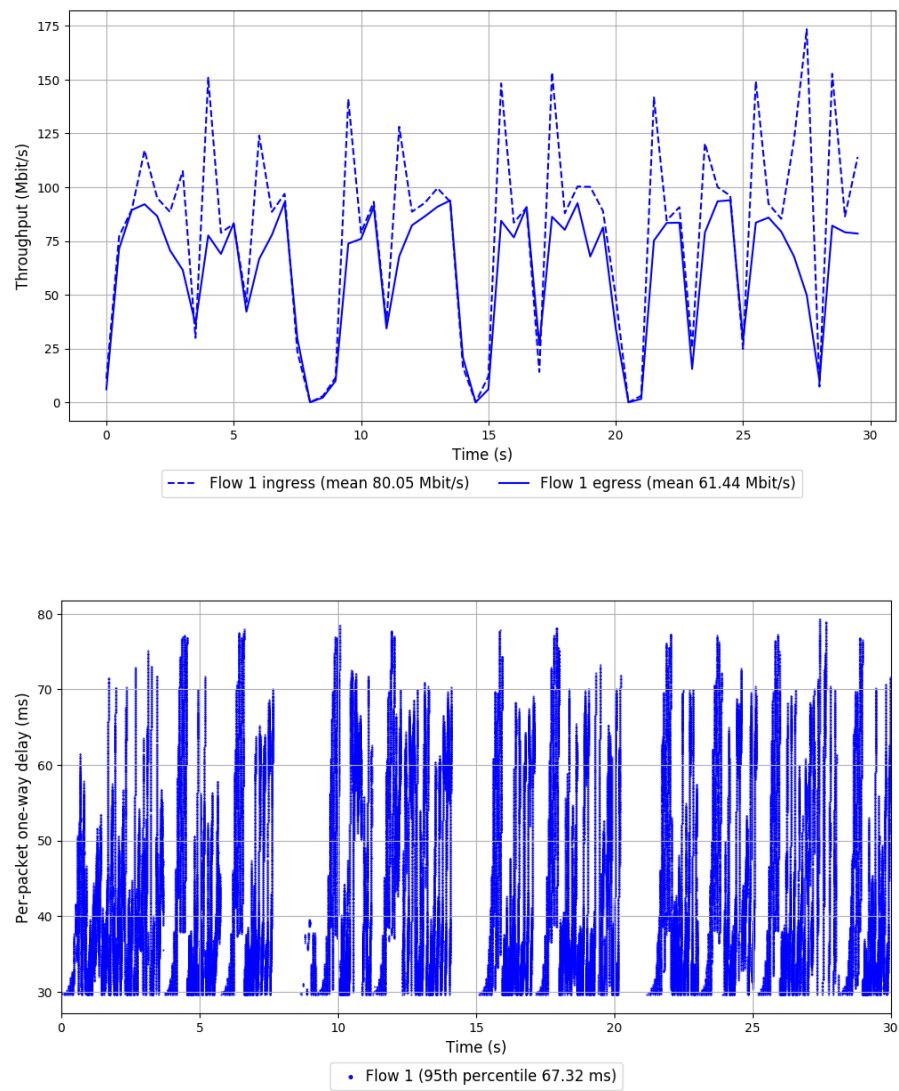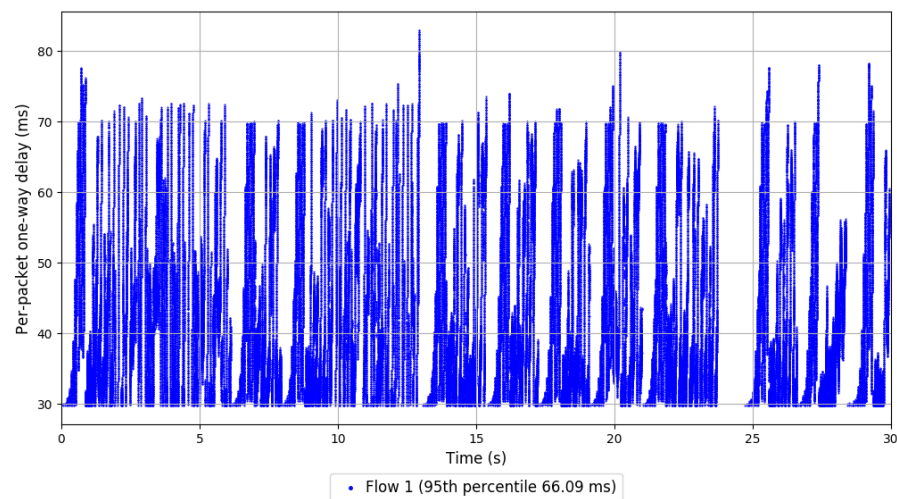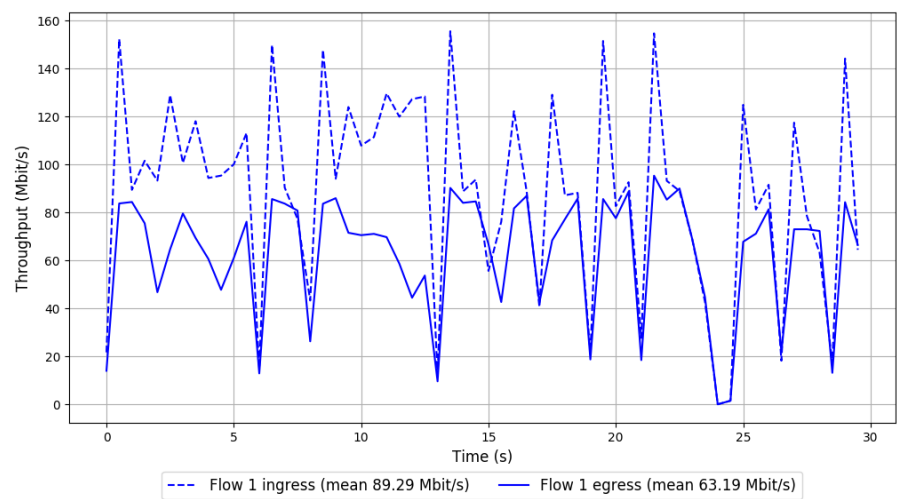
Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2018-01-26 02:08:50
End at: 2018-01-26 02:09:20
Local clock offset: 1.39 ms
Remote clock offset: -2.141 ms


# Below is generated by plot.py at 2018-01-26 10:11:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 68.962 ms
Loss rate: 30.43%
-- Flow 1:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 68.962 ms
Loss rate: 30.43%
```
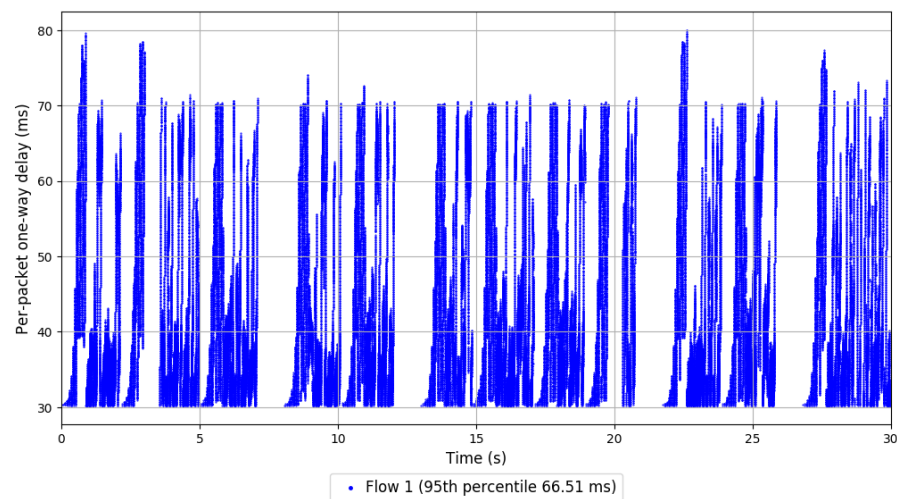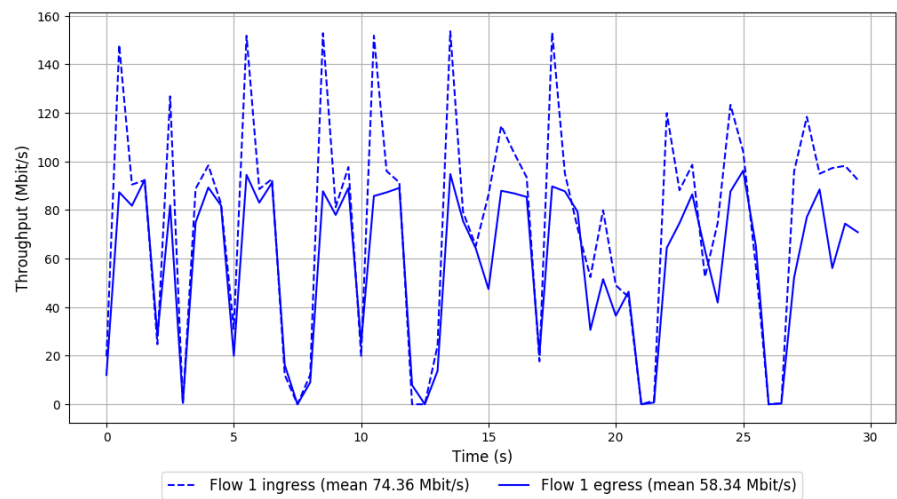
Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2018-01-26 02:30:14
End at: 2018-01-26 02:30:44
Local clock offset: 1.35 ms
Remote clock offset: -1.62 ms


# Below is generated by plot.py at 2018-01-26 10:11:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.44 Mbit/s
95th percentile per-packet one-way delay: 67.322 ms
Loss rate: 23.17%
-- Flow 1:
Average throughput: 61.44 Mbit/s
95th percentile per-packet one-way delay: 67.322 ms
Loss rate: 23.17%
```

Run 7: Report of Verus — Data Link
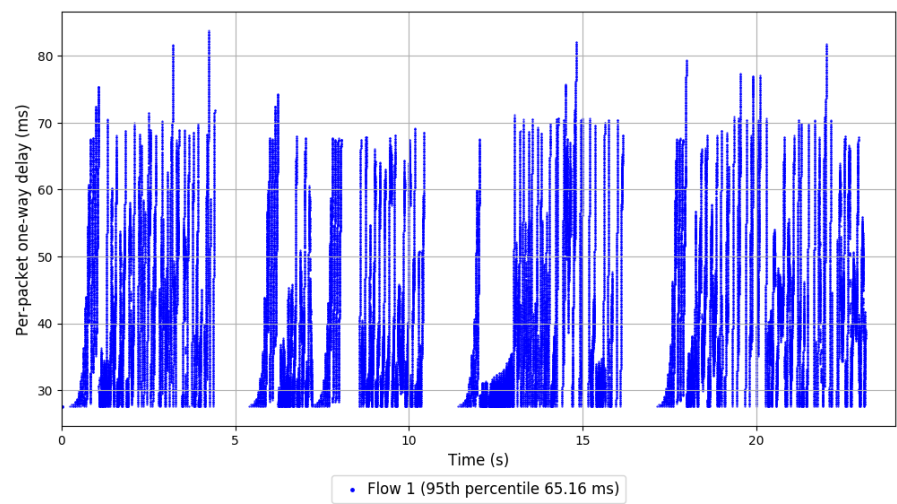
```
Run 8: Statistics of Verus

Start at: 2018-01-26 02:52:31
End at: 2018-01-26 02:53:01
Local clock offset: 1.248 ms
Remote clock offset: -0.916 ms


# Below is generated by plot.py at 2018-01-26 10:12:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.19 Mbit/s
95th percentile per-packet one-way delay: 66.086 ms
Loss rate: 29.18%
-- Flow 1:
Average throughput: 63.19 Mbit/s
95th percentile per-packet one-way delay: 66.086 ms
Loss rate: 29.18%
```

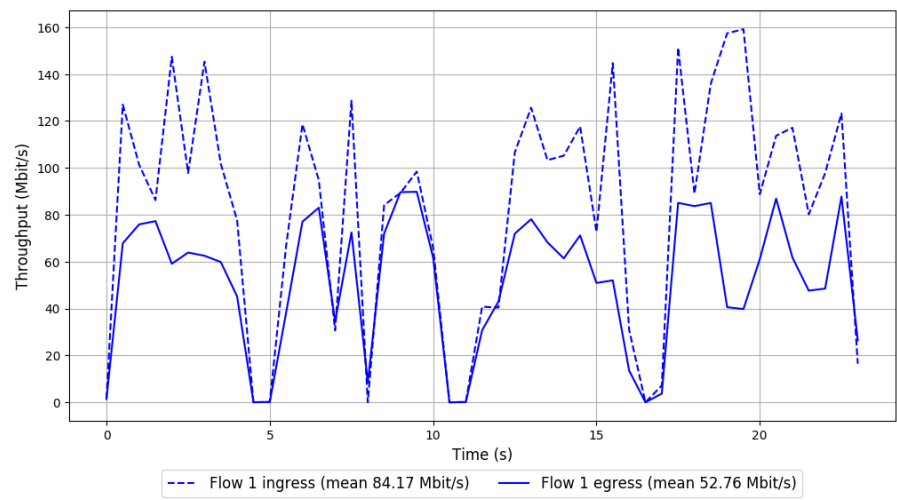Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2018-01-26 03:14:03
End at: 2018-01-26 03:14:33
Local clock offset: 1.014 ms
Remote clock offset: -0.111 ms


# Below is generated by plot.py at 2018-01-26 10:12:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 66.510 ms
Loss rate: 21.54%
-- Flow 1:
Average throughput: 58.34 Mbit/s
95th percentile per-packet one-way delay: 66.510 ms
Loss rate: 21.54%
```

Run 9: Report of Verus — Data Link

Run 10: Statistics of Verus

Start at: 2018-01-26 03:36:17
End at: 2018-01-26 03:36:47
Local clock offset: 0.977 ms
Remote clock offset: -2.523 ms

Run 10: Report of Verus — Data Link
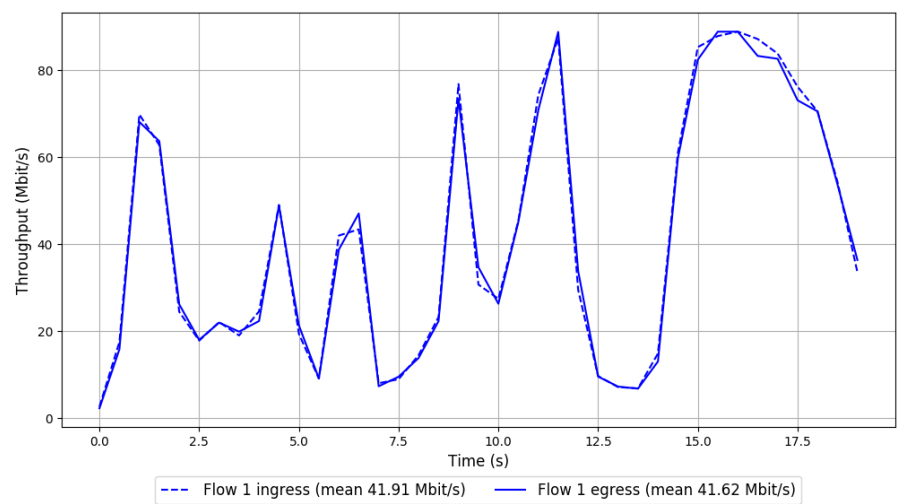
```
Run 1: Statistics of Copa

Start at: 2018-01-26 00:21:15
End at: 2018-01-26 00:21:45
Local clock offset: 0.921 ms
Remote clock offset: -3.262 ms
```
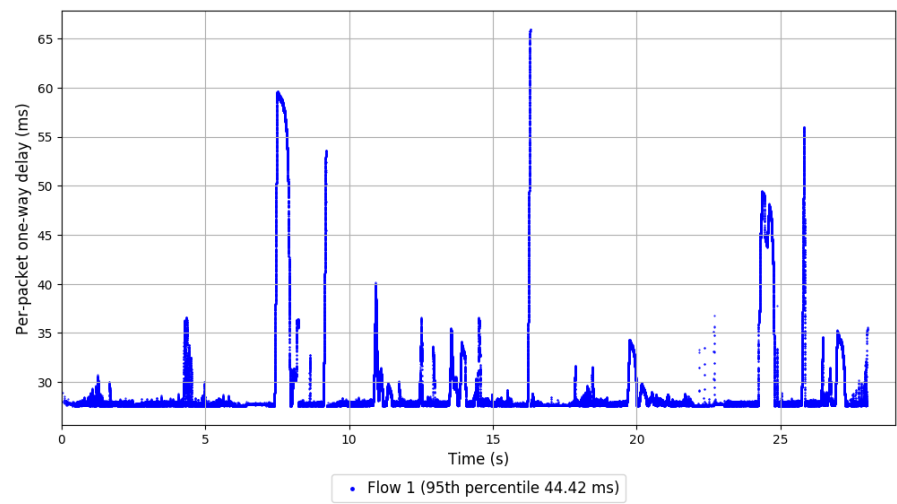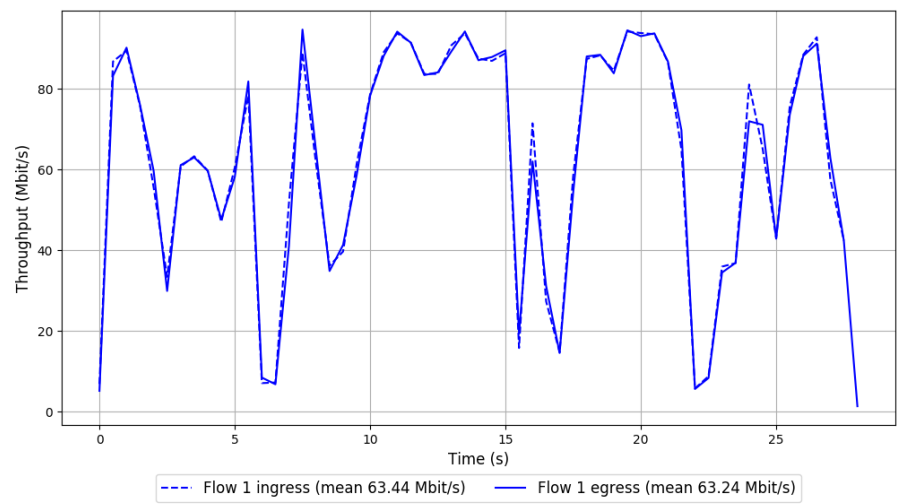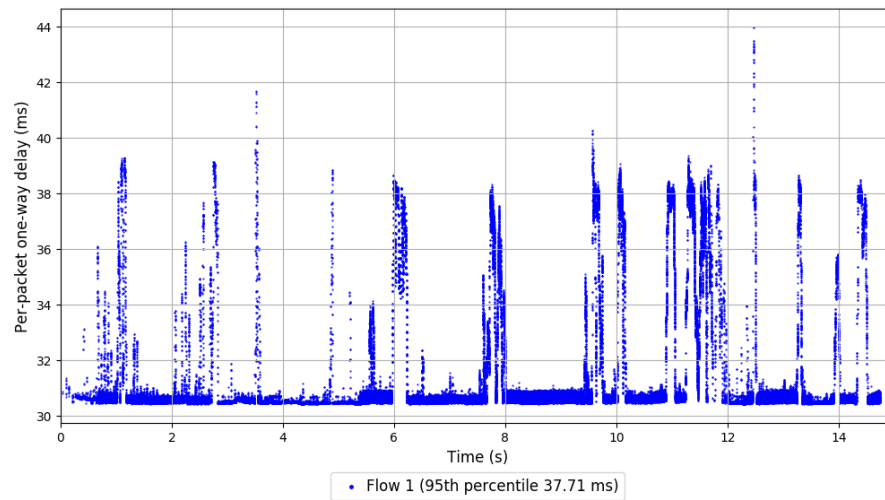
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2018-01-26 00:44:54
End at: 2018-01-26 00:45:24
Local clock offset: 1.083 ms
Remote clock offset: -3.474 ms


# Below is generated by plot.py at 2018-01-26 10:12:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.24 Mbit/s
95th percentile per-packet one-way delay: 44.419 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 63.24 Mbit/s
95th percentile per-packet one-way delay: 44.419 ms
Loss rate: 0.28%
```

Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2018-01-26 01:08:31
End at: 2018-01-26 01:09:01
Local clock offset: 1.164 ms
Remote clock offset: -1.64 ms
```
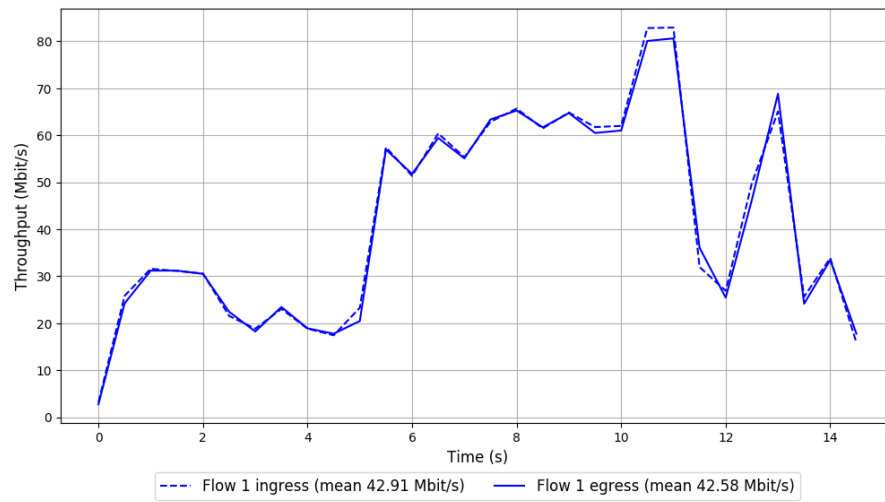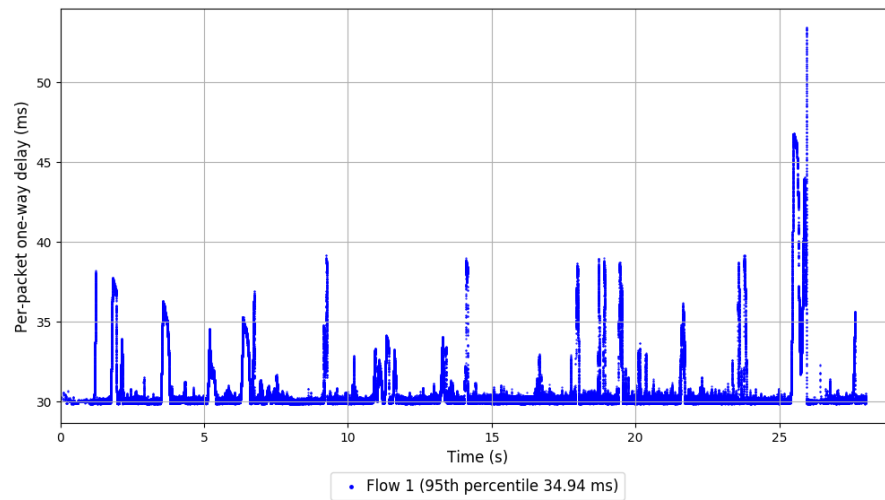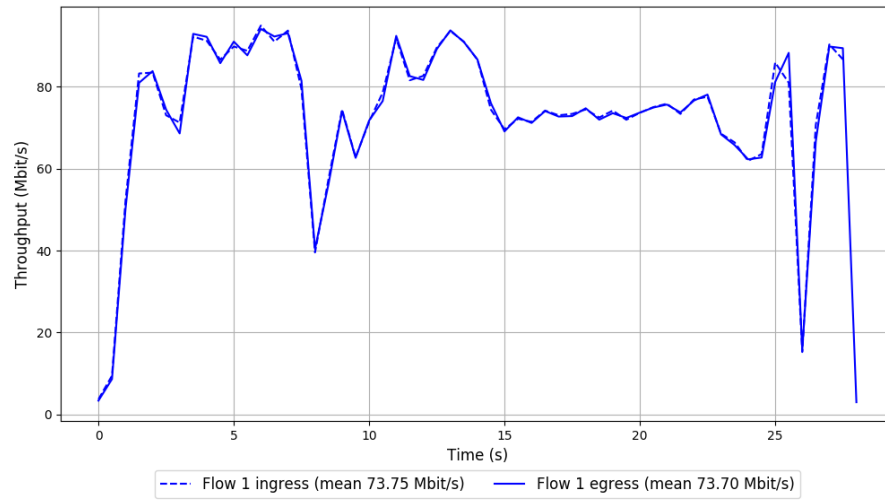
Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2018-01-26 01:32:11
End at: 2018-01-26 01:32:41
Local clock offset: 1.32 ms
Remote clock offset: -1.735 ms


# Below is generated by plot.py at 2018-01-26 10:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.70 Mbit/s
95th percentile per-packet one-way delay: 34.937 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 73.70 Mbit/s
95th percentile per-packet one-way delay: 34.937 ms
Loss rate: 0.07%
```

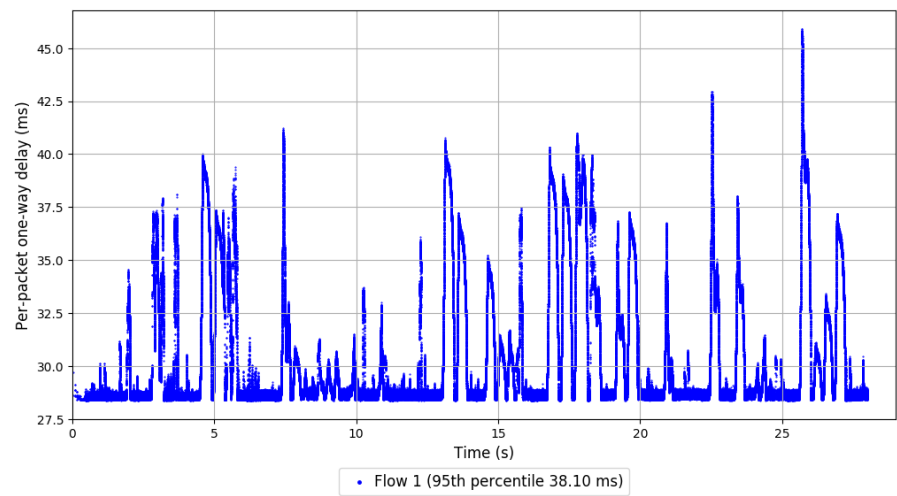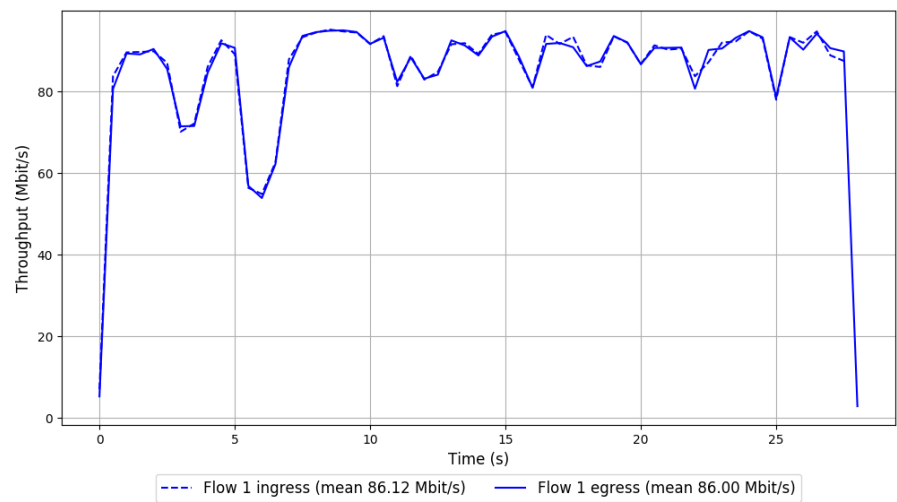Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2018-01-26 01:54:10
End at: 2018-01-26 01:54:40
Local clock offset: 1.327 ms
Remote clock offset: -4.517 ms


# Below is generated by plot.py at 2018-01-26 10:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 38.105 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 38.105 ms
Loss rate: 0.15%
```

Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 86.12 Mbit/s)   Flow 1 egress (mean 86.00 Mbit/s)

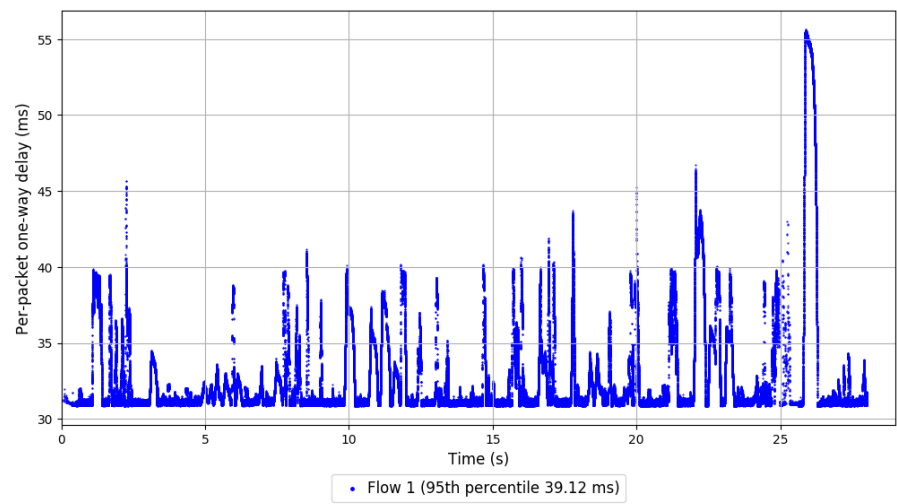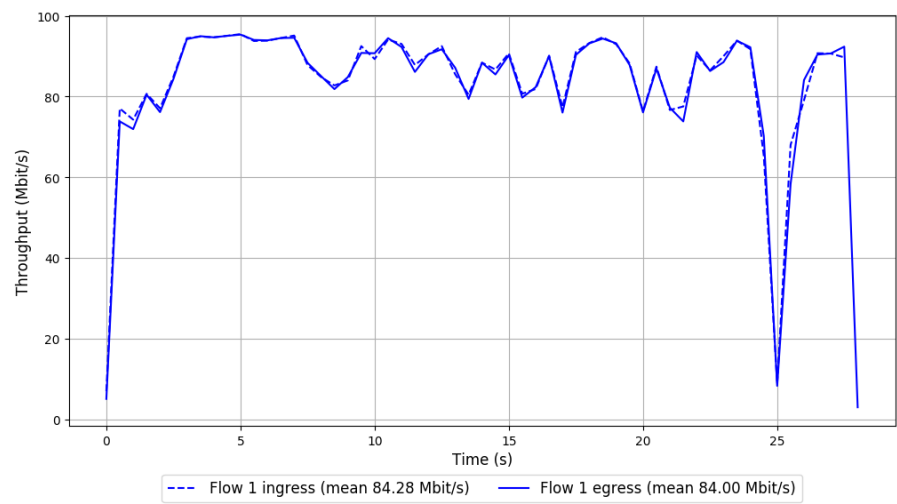Flow 1 (95th percentile 38.10 ms)

```
Run 6: Statistics of Copa

Start at: 2018-01-26 02:15:32
End at: 2018-01-26 02:16:02
Local clock offset: 1.316 ms
Remote clock offset: -1.739 ms


# Below is generated by plot.py at 2018-01-26 10:14:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.00 Mbit/s
95th percentile per-packet one-way delay: 39.115 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 84.00 Mbit/s
95th percentile per-packet one-way delay: 39.115 ms
Loss rate: 0.33%
```

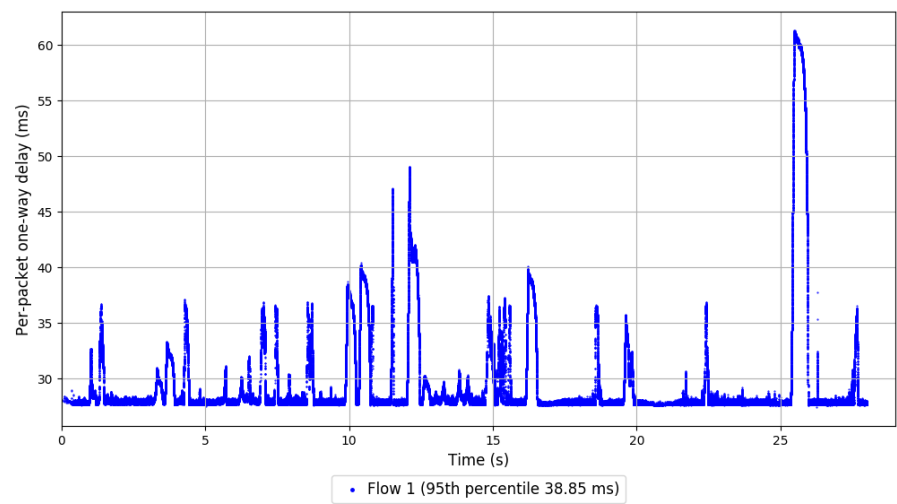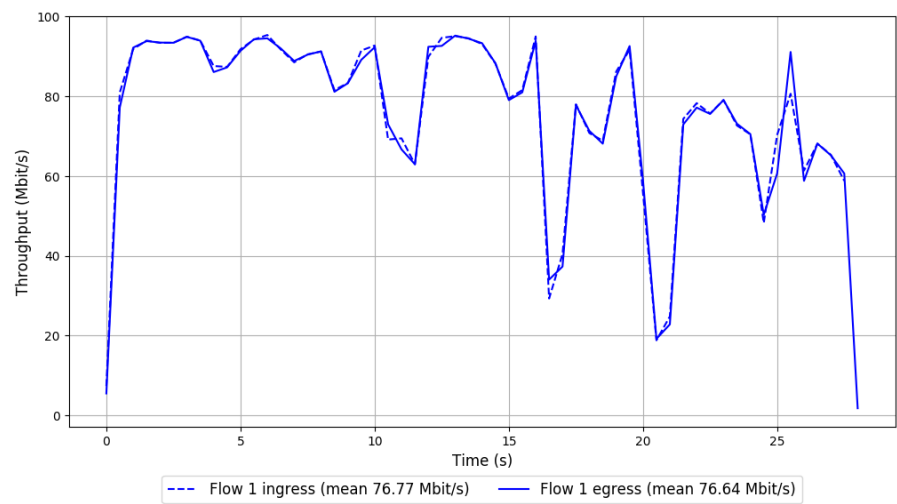# Run 6: Report of Copa — Data Link

```
Run 7: Statistics of Copa

Start at: 2018-01-26 02:37:15
End at: 2018-01-26 02:37:46
Local clock offset: 1.243 ms
Remote clock offset: -3.421 ms


# Below is generated by plot.py at 2018-01-26 10:14:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.64 Mbit/s
95th percentile per-packet one-way delay: 38.851 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 76.64 Mbit/s
95th percentile per-packet one-way delay: 38.851 ms
Loss rate: 0.16%
```

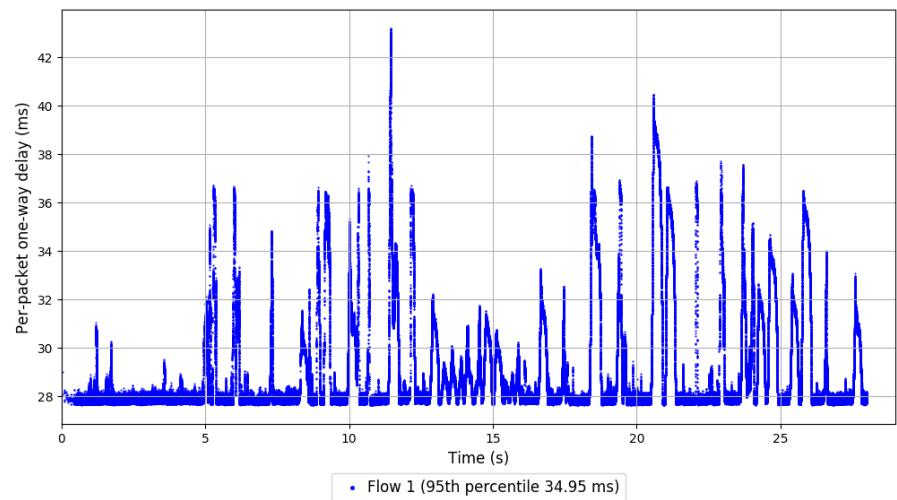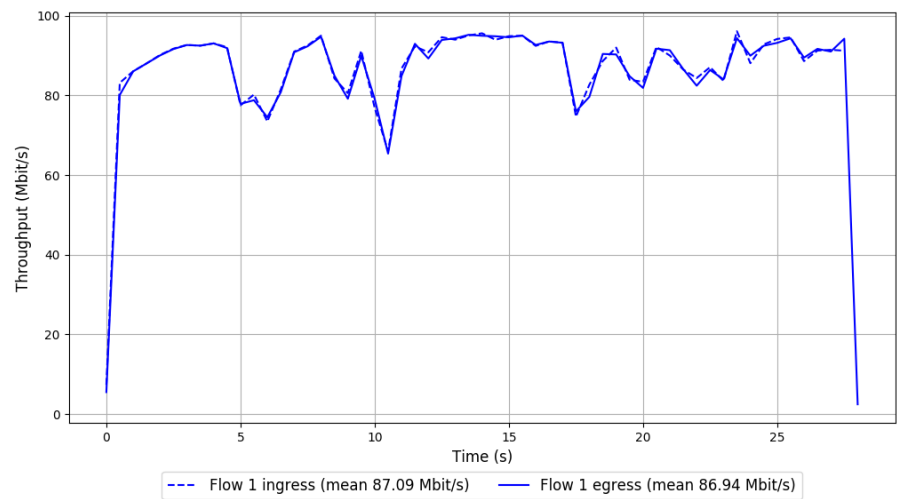Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: 2018-01-26 02:59:20
End at: 2018-01-26 02:59:50
Local clock offset: 1.267 ms
Remote clock offset: -2.789 ms


# Below is generated by plot.py at 2018-01-26 10:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 34.953 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 34.953 ms
Loss rate: 0.18%
```

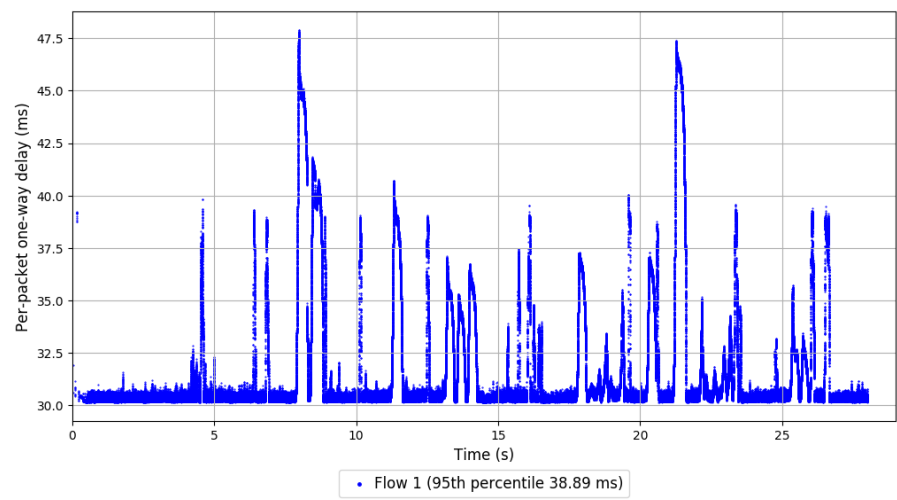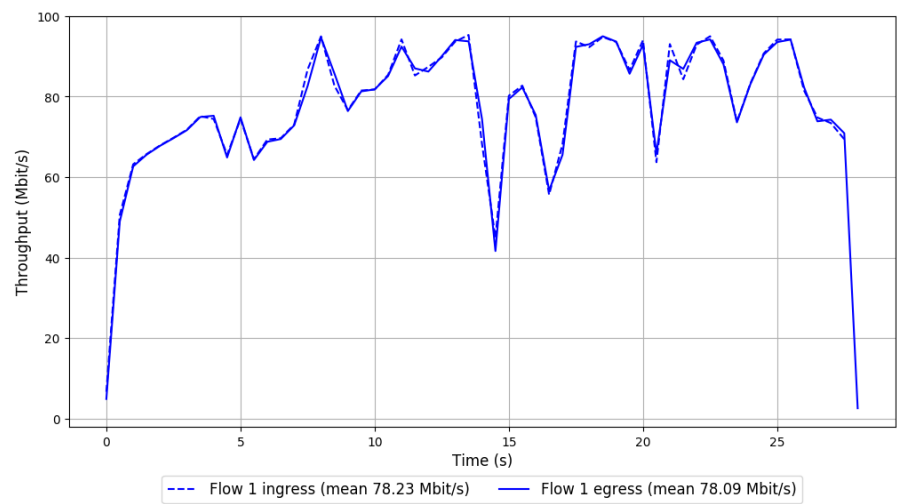Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: 2018-01-26 03:21:07
End at: 2018-01-26 03:21:37
Local clock offset: 1.04 ms
Remote clock offset: -0.013 ms


# Below is generated by plot.py at 2018-01-26 10:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 38.893 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 78.09 Mbit/s
95th percentile per-packet one-way delay: 38.893 ms
Loss rate: 0.19%
```

Run 9: Report of Copa — Data Link
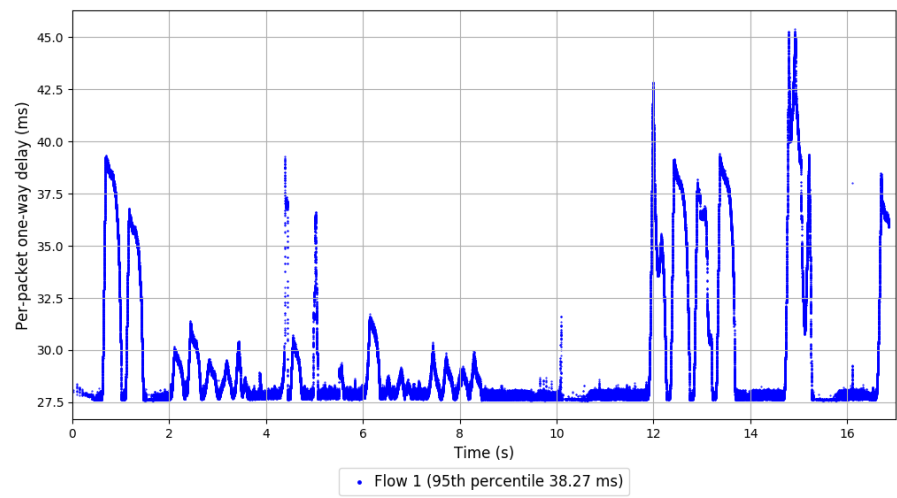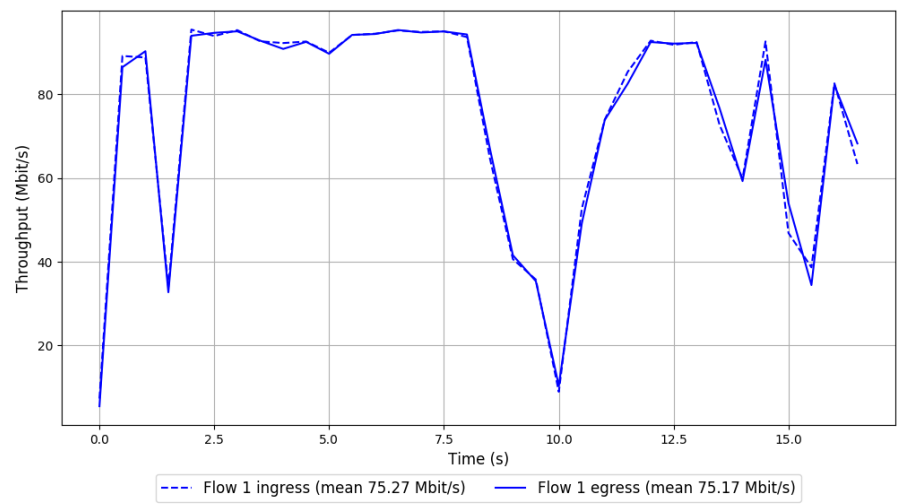
Run 10: Statistics of Copa

Start at: 2018-01-26 03:43:31
End at: 2018-01-26 03:44:01
Local clock offset: 0.982 ms
Remote clock offset: -2.454 ms
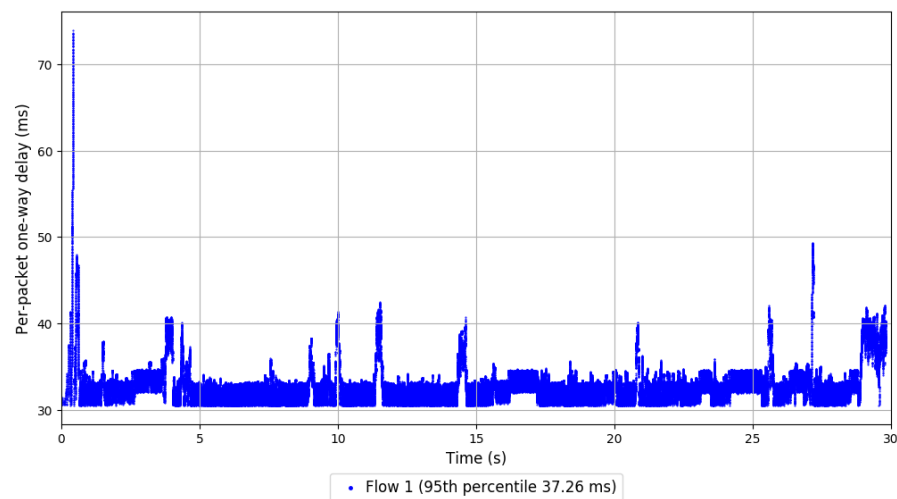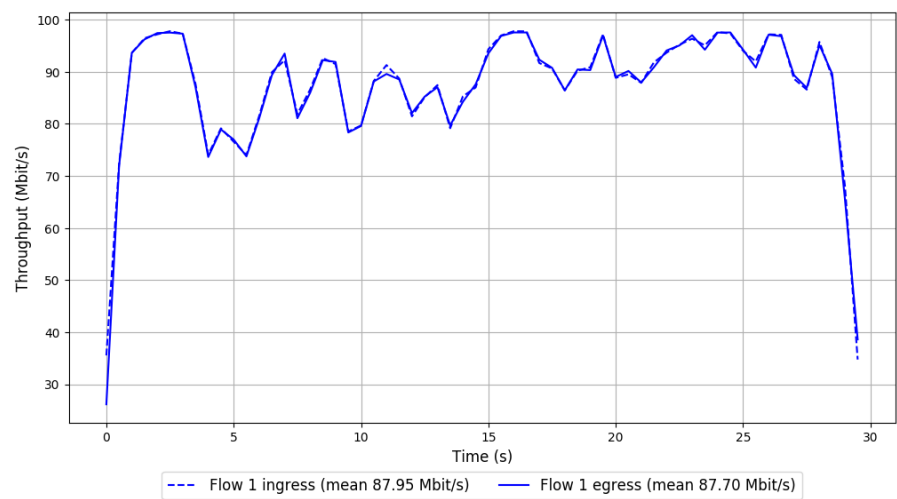
Run 10: Report of Copa — Data Link

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

Start at: 2018-01-26 00:24:02
End at: 2018-01-26 00:24:32
Local clock offset: 0.949 ms
Remote clock offset: -1.014 ms


# Below is generated by plot.py at 2018-01-26 10:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.70 Mbit/s
95th percentile per-packet one-way delay: 37.260 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 87.70 Mbit/s
95th percentile per-packet one-way delay: 37.260 ms
Loss rate: 0.26%
```

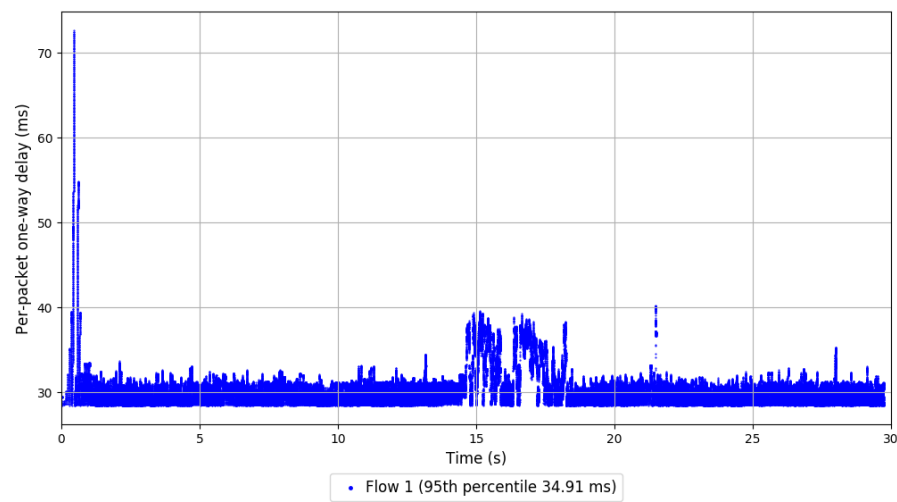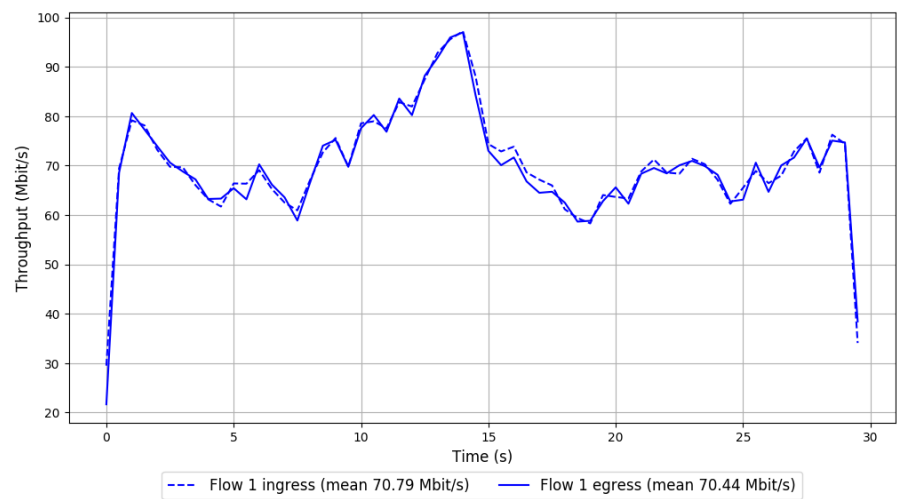Run 1: Report of Indigo-2-256 — Data Link

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

Start at: 2018-01-26 00:47:48
End at: 2018-01-26 00:48:18
Local clock offset: 1.101 ms
Remote clock offset: -3.354 ms


# Below is generated by plot.py at 2018-01-26 10:14:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.44 Mbit/s
95th percentile per-packet one-way delay: 34.911 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 70.44 Mbit/s
95th percentile per-packet one-way delay: 34.911 ms
Loss rate: 0.50%
```

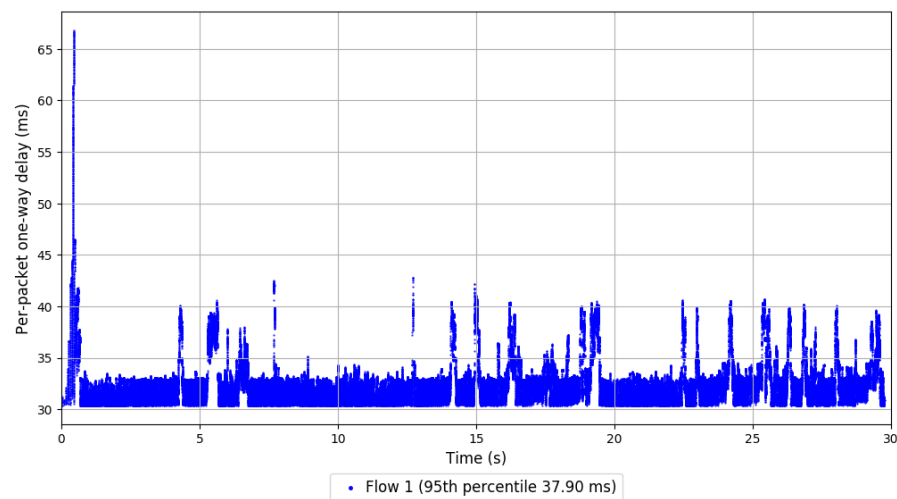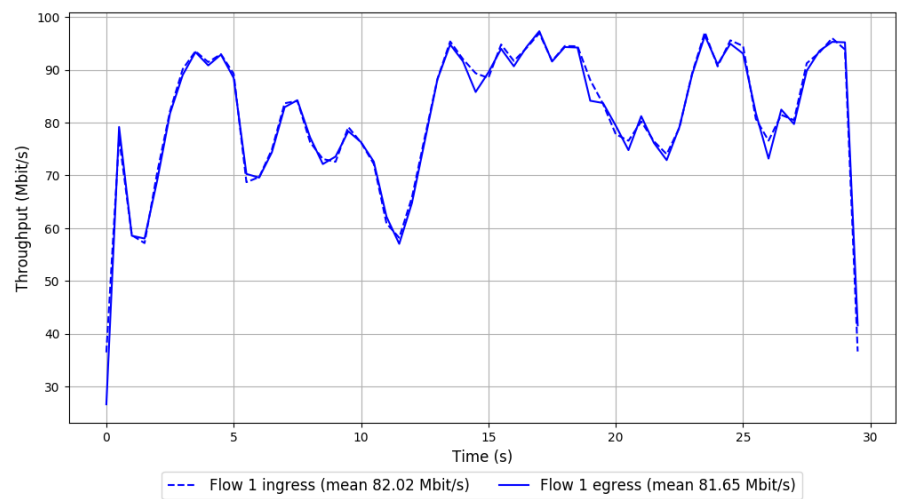Run 2: Report of Indigo-2-256 — Data Link

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

Start at: 2018-01-26 01:11:11
End at: 2018-01-26 01:11:41
Local clock offset: 1.252 ms
Remote clock offset: -1.671 ms


# Below is generated by plot.py at 2018-01-26 10:14:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.65 Mbit/s
95th percentile per-packet one-way delay: 37.897 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 81.65 Mbit/s
95th percentile per-packet one-way delay: 37.897 ms
Loss rate: 0.45%
```

Run 3: Report of Indigo-2-256 — Data Link

Flow 1 ingress (mean 82.02 Mbit/s)   Flow 1 egress (mean 81.65 Mbit/s)

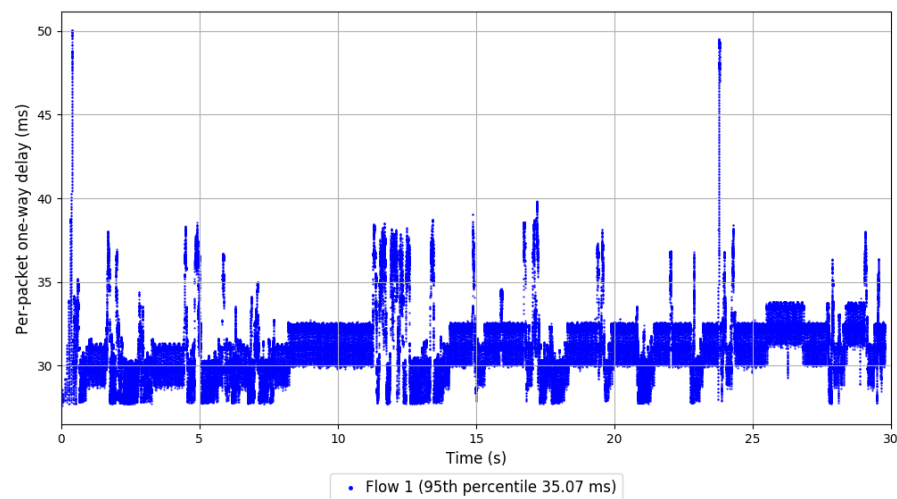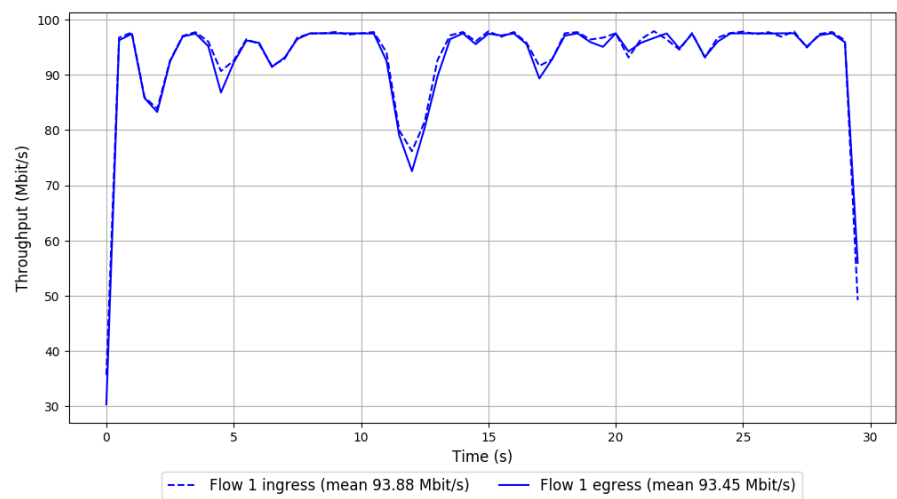

• Flow 1 (95th percentile 37.90 ms)

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

Start at: 2018-01-26 01:35:02
End at: 2018-01-26 01:35:32
Local clock offset: 1.316 ms
Remote clock offset: -3.926 ms


# Below is generated by plot.py at 2018-01-26 10:15:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 35.070 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 35.070 ms
Loss rate: 0.44%
```

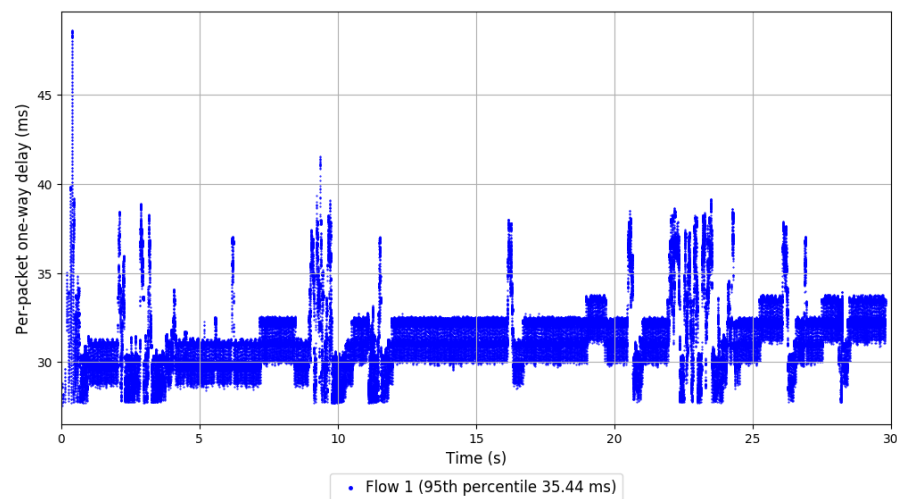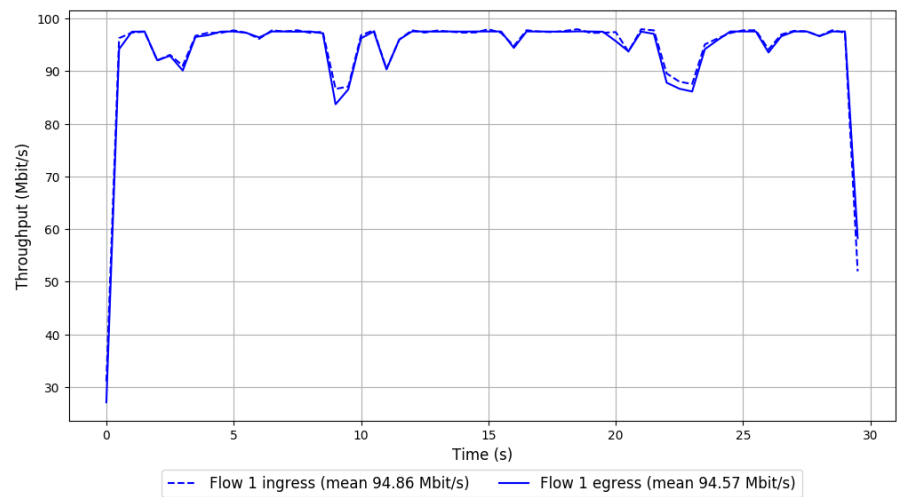Run 4: Report of Indigo-2-256 — Data Link

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

Start at: 2018-01-26 01:56:49
End at: 2018-01-26 01:57:19
Local clock offset: 1.396 ms
Remote clock offset: -4.413 ms

# Below is generated by plot.py at 2018-01-26 10:15:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 35.435 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 94.57 Mbit/s
95th percentile per-packet one-way delay: 35.435 ms
Loss rate: 0.29%
```

Run 5: Report of Indigo-2-256 — Data Link

Flow 1 ingress (mean 94.86 Mbit/s) --- Flow 1 egress (mean 94.57 Mbit/s)

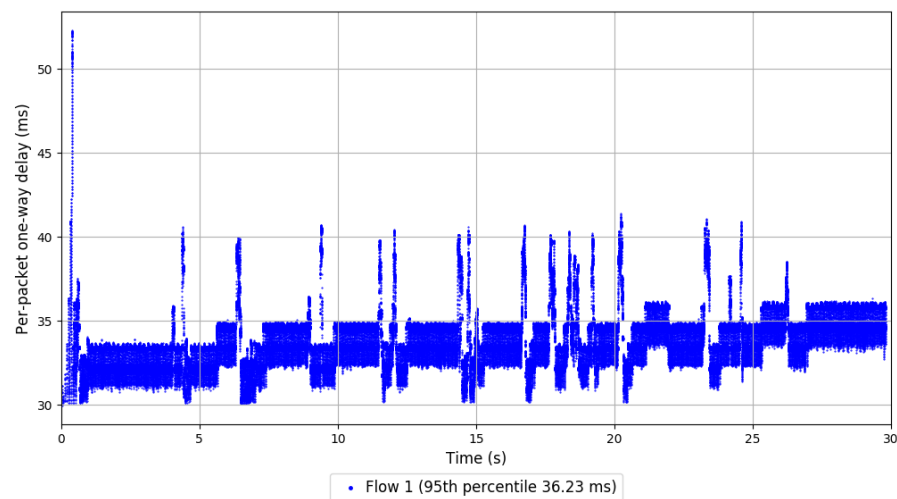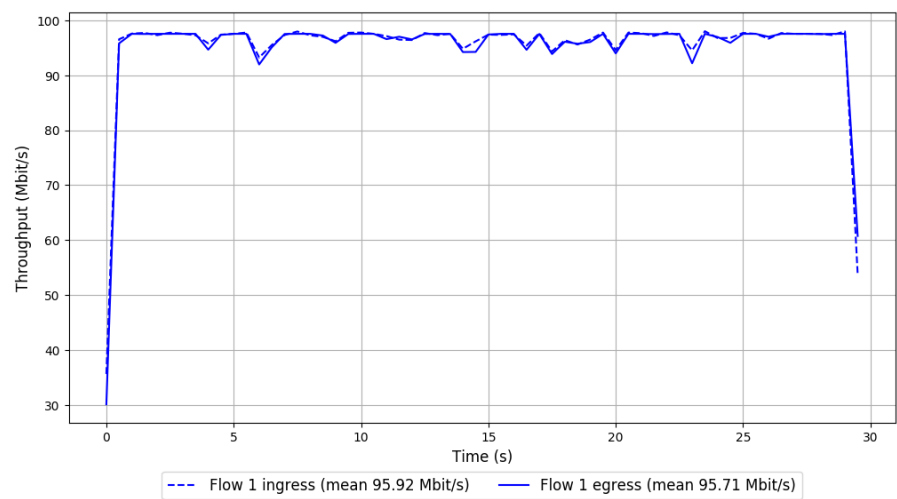

• Flow 1 (95th percentile 35.44 ms)

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

Start at: 2018-01-26 02:18:11
End at: 2018-01-26 02:18:41
Local clock offset: 1.425 ms
Remote clock offset: -1.618 ms


# Below is generated by plot.py at 2018-01-26 10:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 36.235 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 95.71 Mbit/s
95th percentile per-packet one-way delay: 36.235 ms
Loss rate: 0.20%
```

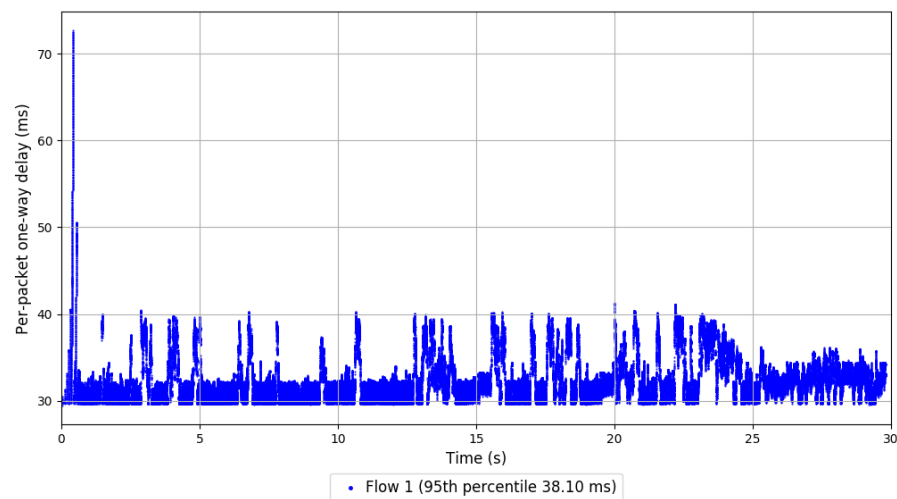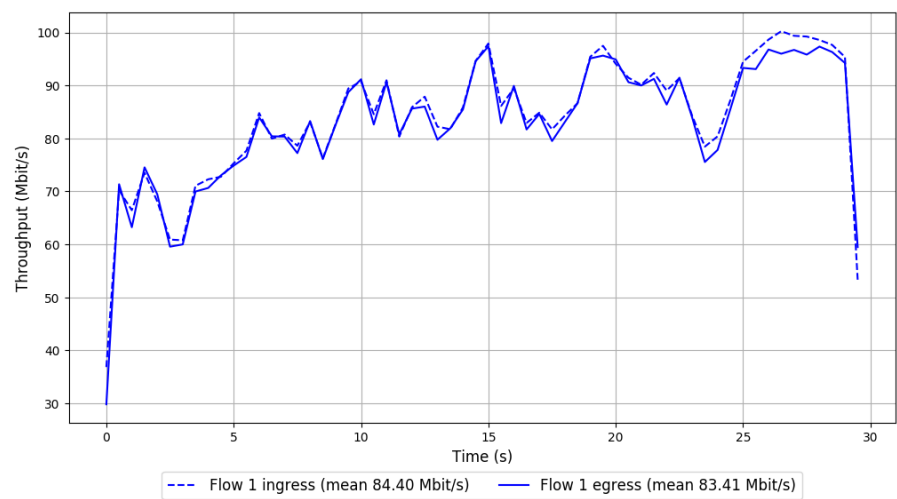Run 6: Report of Indigo-2-256 — Data Link

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

Start at: 2018-01-26 02:40:02
End at: 2018-01-26 02:40:32
Local clock offset: 1.331 ms
Remote clock offset: -1.272 ms


# Below is generated by plot.py at 2018-01-26 10:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.41 Mbit/s
95th percentile per-packet one-way delay: 38.104 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 83.41 Mbit/s
95th percentile per-packet one-way delay: 38.104 ms
Loss rate: 1.16%
```

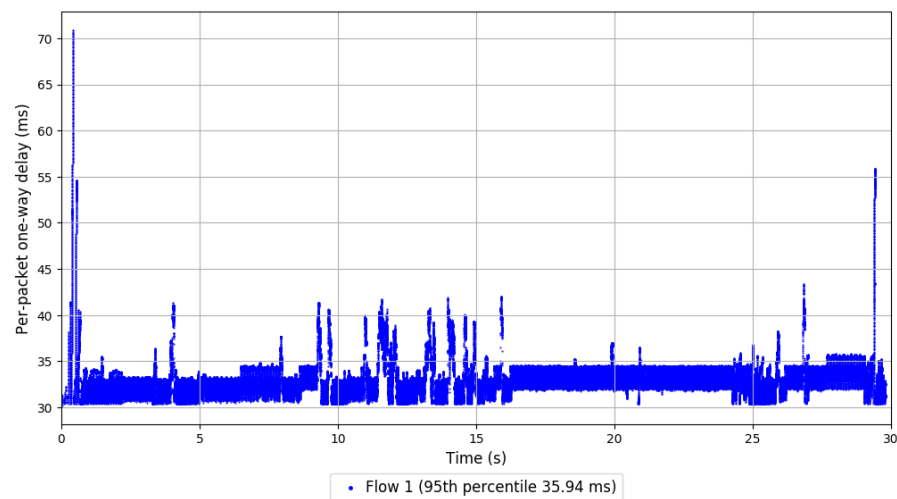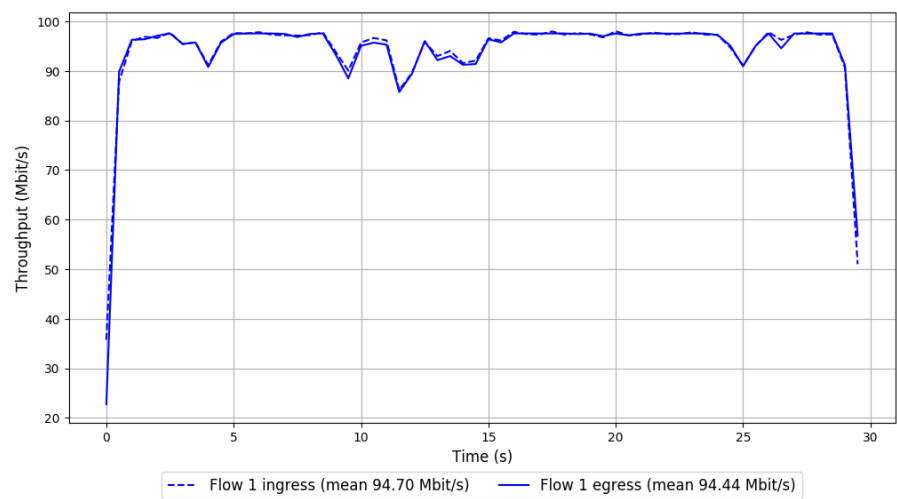Run 7: Report of Indigo-2-256 — Data Link

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

Start at: 2018-01-26 03:02:01
End at: 2018-01-26 03:02:31
Local clock offset: 1.237 ms
Remote clock offset: -0.758 ms


# Below is generated by plot.py at 2018-01-26 10:15:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 35.937 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 35.937 ms
Loss rate: 0.27%
```

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

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

Start at: 2018-01-26 03:23:56
End at: 2018-01-26 03:24:26
Local clock offset: 0.958 ms
Remote clock offset: 0.083 ms


# Below is generated by plot.py at 2018-01-26 10:15:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.15 Mbit/s
95th percentile per-packet one-way delay: 34.647 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 76.15 Mbit/s
95th percentile per-packet one-way delay: 34.647 ms
Loss rate: 0.31%
```
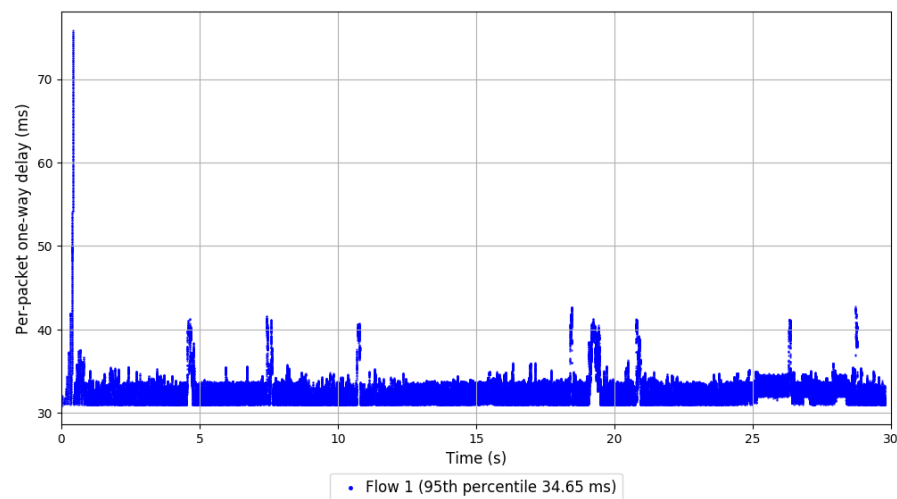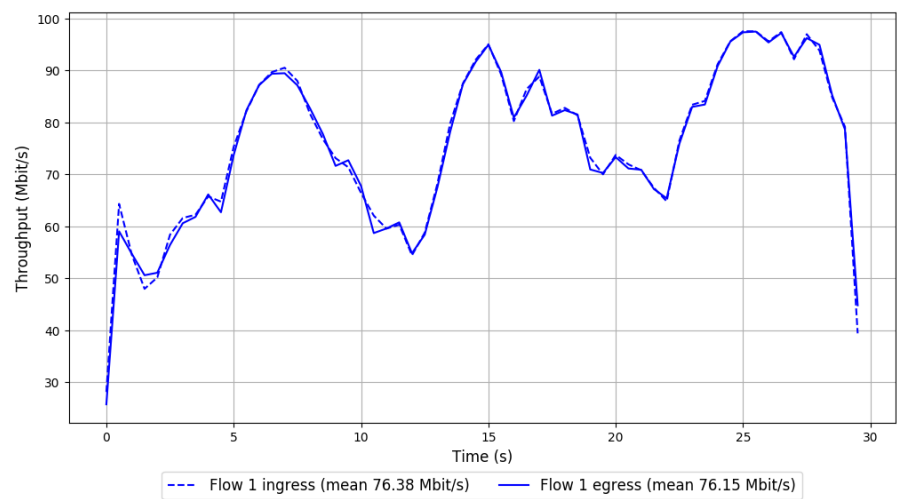
Run 9: Report of Indigo-2-256 — Data Link

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

Start at: 2018-01-26 03:46:14
End at: 2018-01-26 03:46:44
Local clock offset: 0.875 ms
Remote clock offset: 0.26 ms


# Below is generated by plot.py at 2018-01-26 10:15:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.21 Mbit/s
95th percentile per-packet one-way delay: 38.111 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 80.21 Mbit/s
95th percentile per-packet one-way delay: 38.111 ms
Loss rate: 0.38%
```
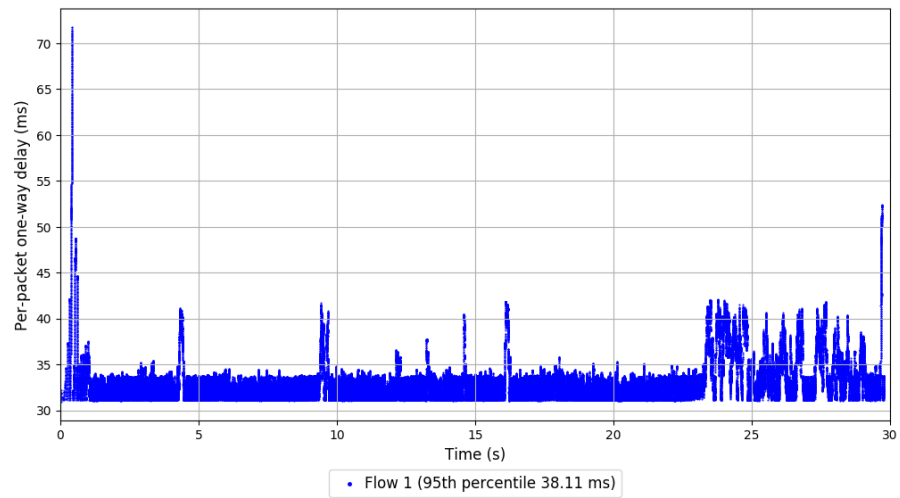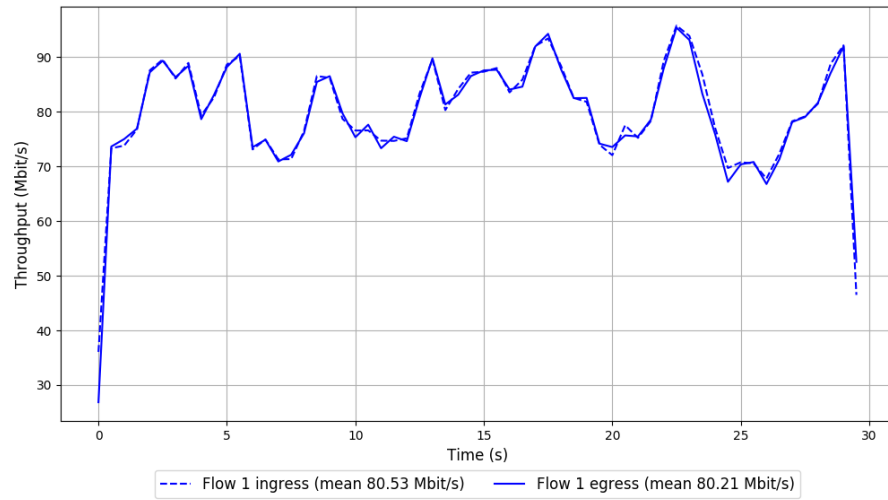
Run 10: Report of Indigo-2-256 — Data Link

Flow 1 ingress (mean 80.53 Mbit/s) ----- Flow 1 egress (mean 80.21 Mbit/s)

• Flow 1 (95th percentile 38.11 ms)

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

Start at: 2018-01-26 00:15:17
End at: 2018-01-26 00:15:47
Local clock offset: 0.887 ms
Remote clock offset: -1.357 ms


# Below is generated by plot.py at 2018-01-26 10:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 36.461 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 84.97 Mbit/s
95th percentile per-packet one-way delay: 36.461 ms
Loss rate: 0.42%
```
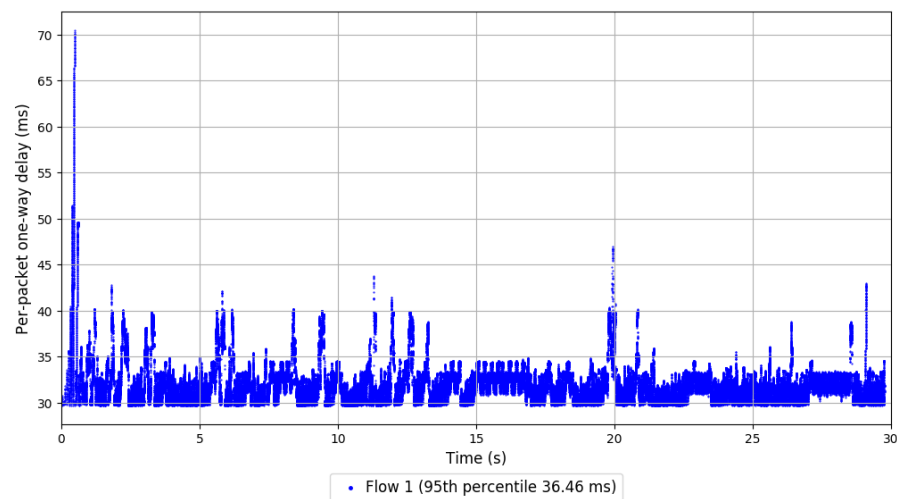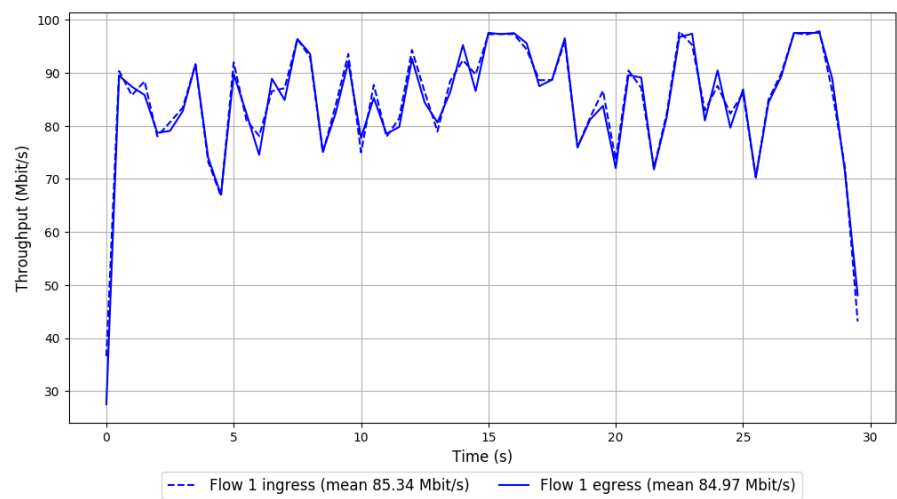
Run 1: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-26 00:38:26
End at: 2018-01-26 00:38:56
Local clock offset: 1.024 ms
Remote clock offset: -1.232 ms


# Below is generated by plot.py at 2018-01-26 10:16:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.83 Mbit/s
95th percentile per-packet one-way delay: 33.110 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 68.83 Mbit/s
95th percentile per-packet one-way delay: 33.110 ms
Loss rate: 0.05%
```
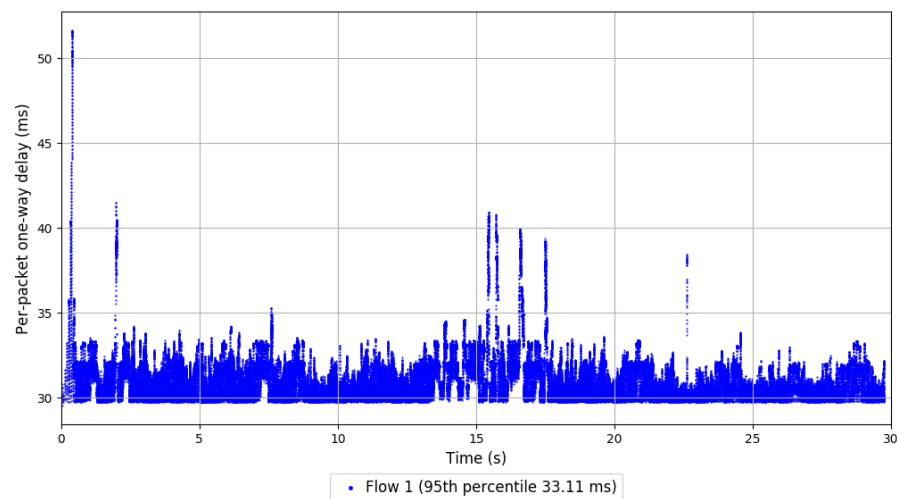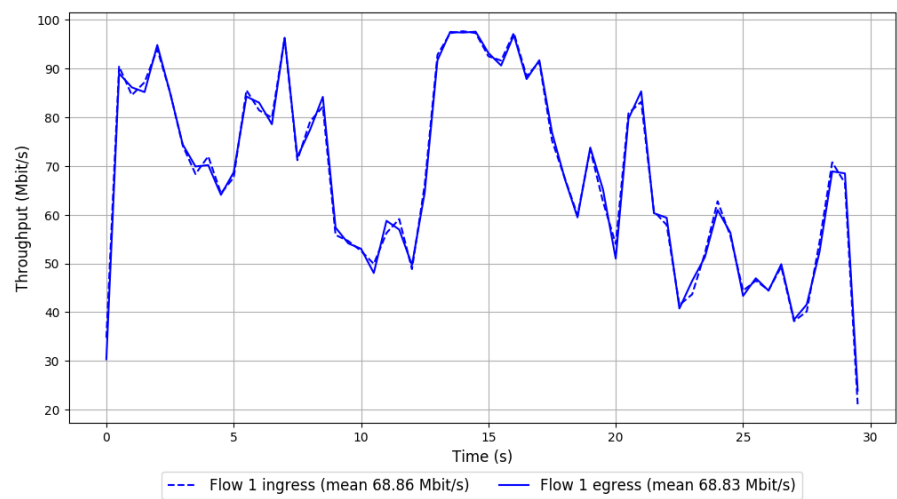
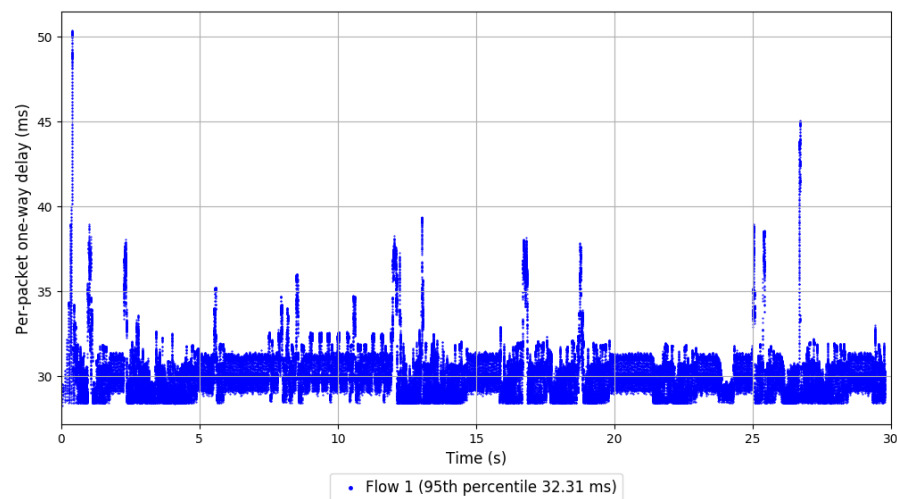Run 2: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-26 01:02:31
End at: 2018-01-26 01:03:01
Local clock offset: 1.218 ms
Remote clock offset: -3.532 ms


# Below is generated by plot.py at 2018-01-26 10:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 32.311 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 88.21 Mbit/s
95th percentile per-packet one-way delay: 32.311 ms
Loss rate: 0.12%
```

Run 3: Report of Indigo-1-32 — Data Link
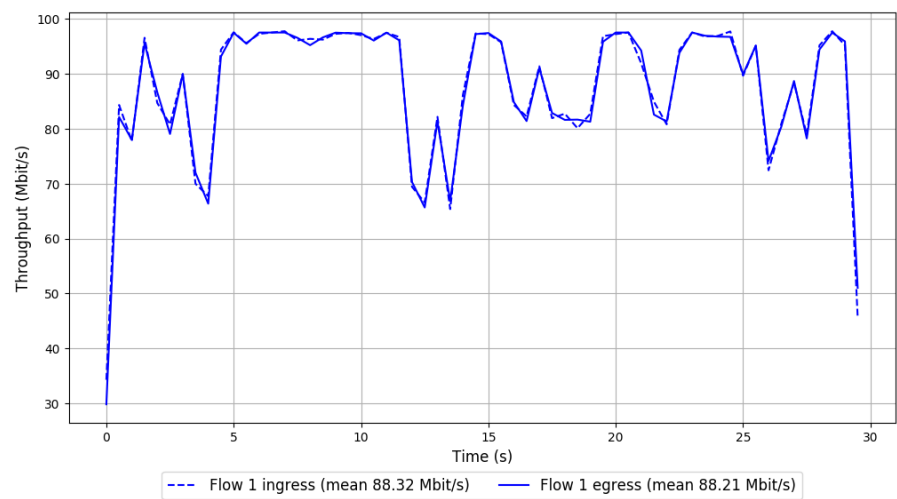

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```
Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 01:25:48
End at: 2018-01-26 01:26:18
Local clock offset: 1.272 ms
Remote clock offset: -1.675 ms


# Below is generated by plot.py at 2018-01-26 10:16:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.80 Mbit/s
95th percentile per-packet one-way delay: 32.808 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 52.80 Mbit/s
95th percentile per-packet one-way delay: 32.808 ms
Loss rate: 0.06%
```
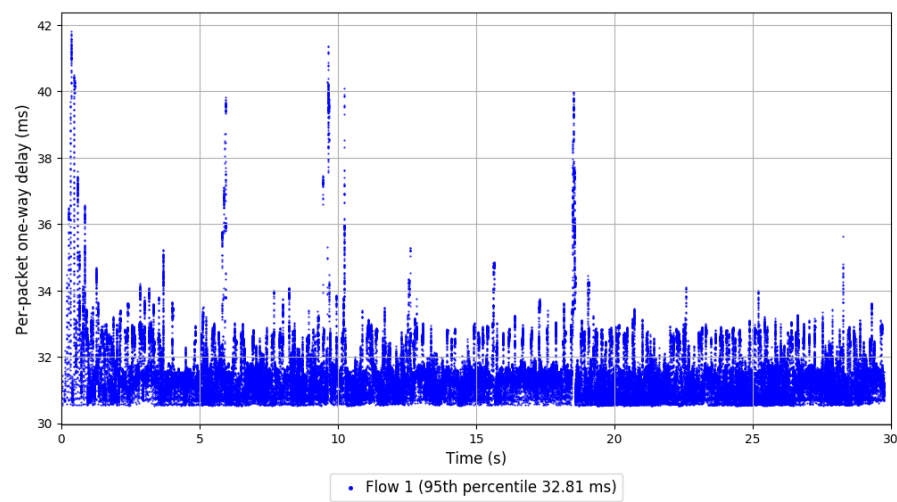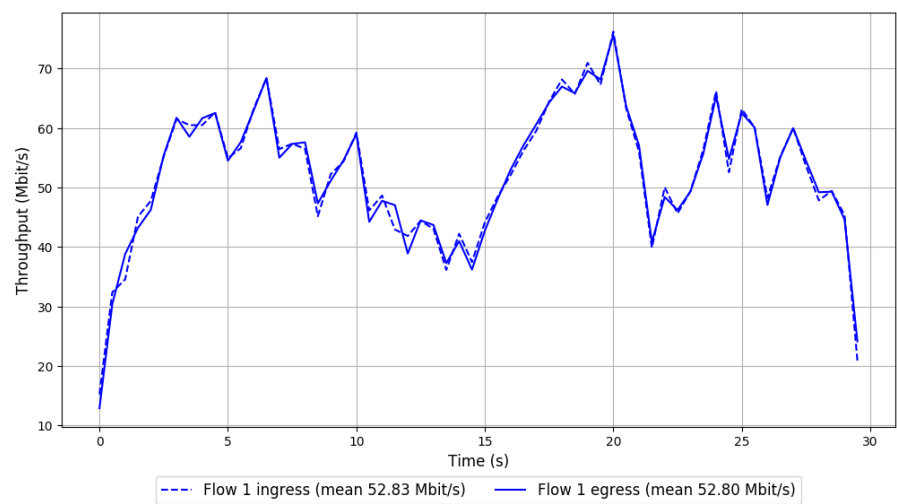
Run 4: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-26 01:48:41
End at: 2018-01-26 01:49:11
Local clock offset: 1.328 ms
Remote clock offset: -2.229 ms


# Below is generated by plot.py at 2018-01-26 10:16:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 36.500 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 36.500 ms
Loss rate: 0.27%
```

Run 5: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 94.45 Mbit/s) Flow 1 egress (mean 94.18 Mbit/s)
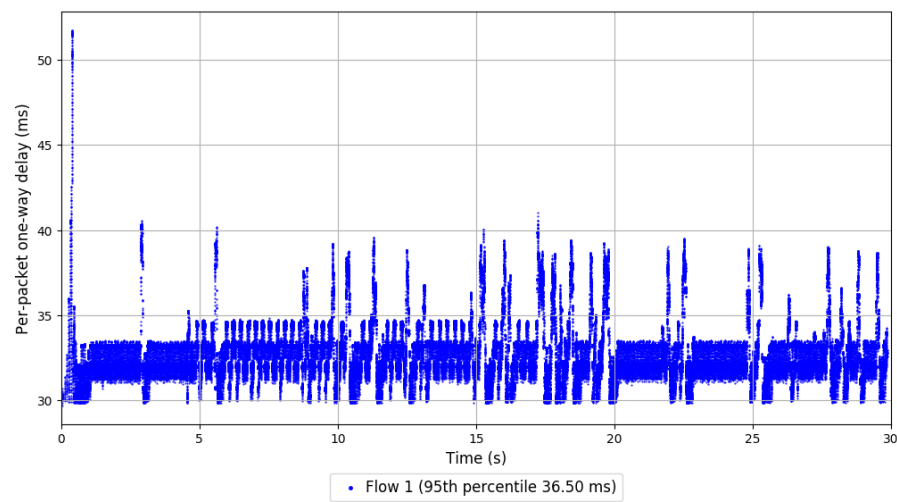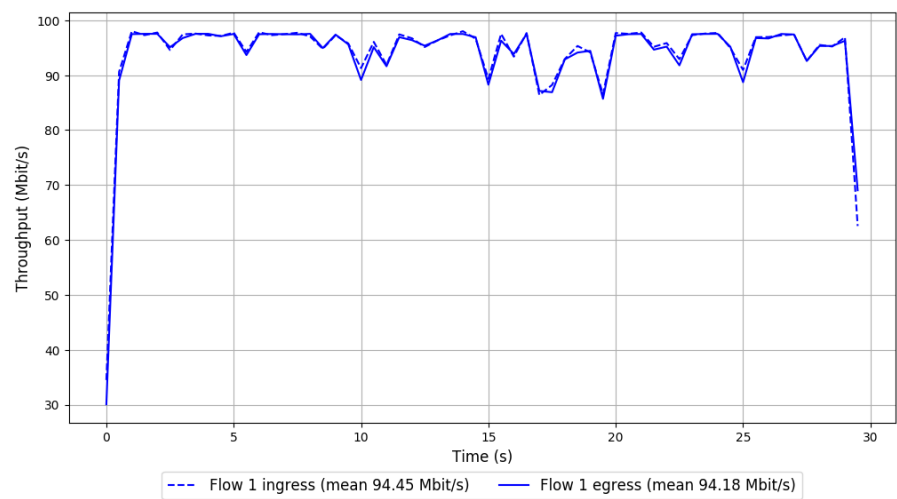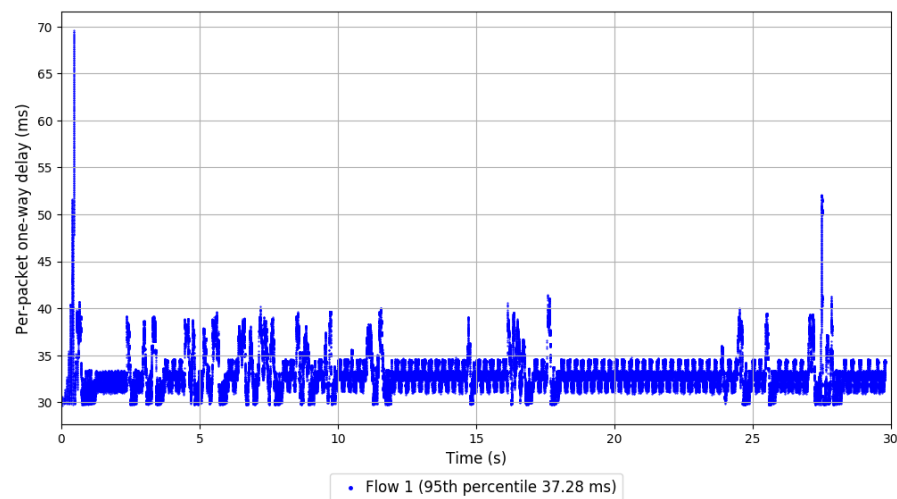

Flow 1 (95th percentile 36.50 ms)

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

Start at: 2018-01-26 02:10:11
End at: 2018-01-26 02:10:41
Local clock offset: 1.288 ms
Remote clock offset: -2.314 ms


# Below is generated by plot.py at 2018-01-26 10:16:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 37.277 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 37.277 ms
Loss rate: 0.39%
```

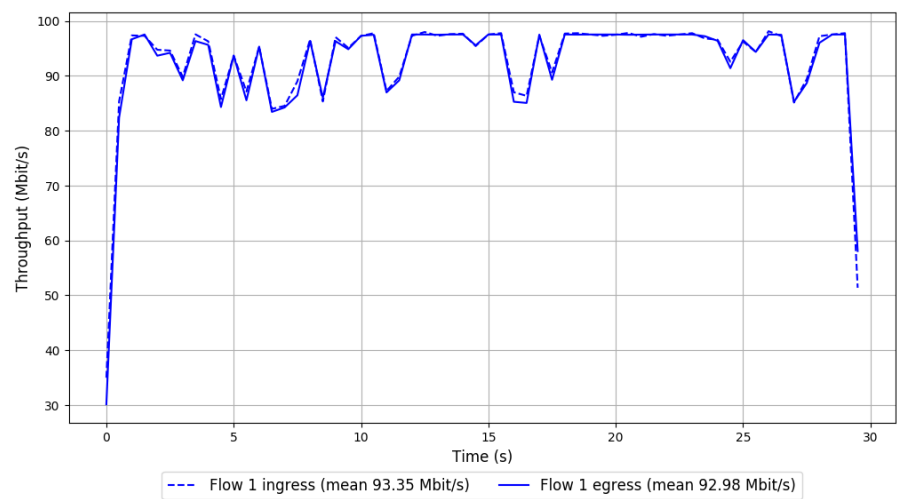Run 6: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-26 02:31:38
End at: 2018-01-26 02:32:08
Local clock offset: 1.372 ms
Remote clock offset: -1.058 ms


# Below is generated by plot.py at 2018-01-26 10:16:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 37.781 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 37.781 ms
Loss rate: 0.34%
```
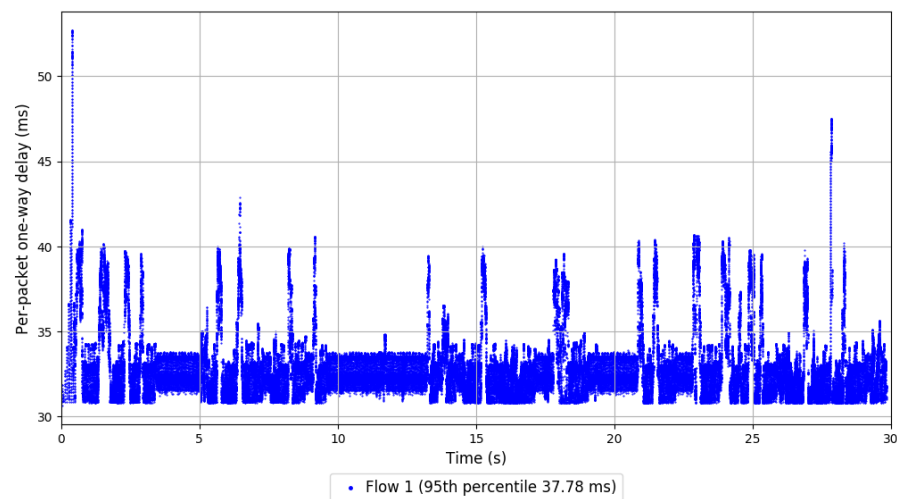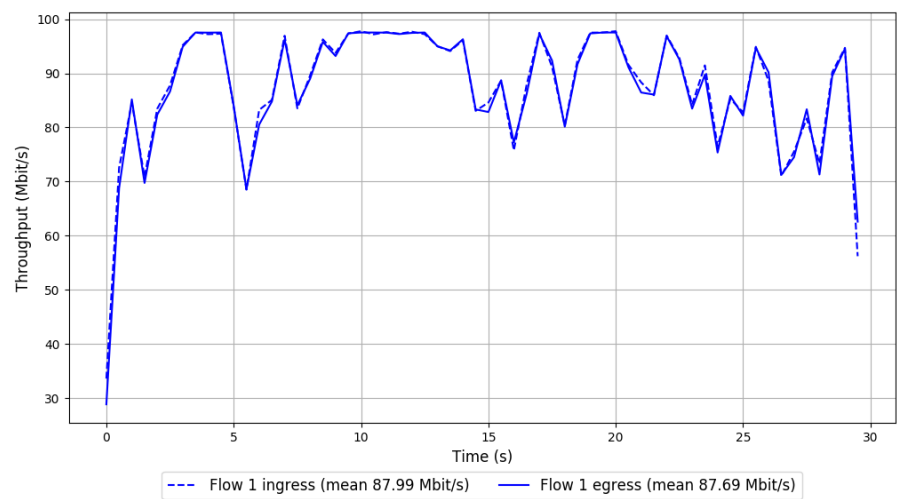
Run 7: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 87.99 Mbit/s) --- Flow 1 egress (mean 87.69 Mbit/s)

Flow 1 (95th percentile 37.78 ms)

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

Start at: 2018-01-26 02:53:54
End at: 2018-01-26 02:54:24
Local clock offset: 1.265 ms
Remote clock offset: -0.903 ms


# Below is generated by plot.py at 2018-01-26 10:16:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 34.824 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 93.87 Mbit/s
95th percentile per-packet one-way delay: 34.824 ms
Loss rate: 0.09%
```
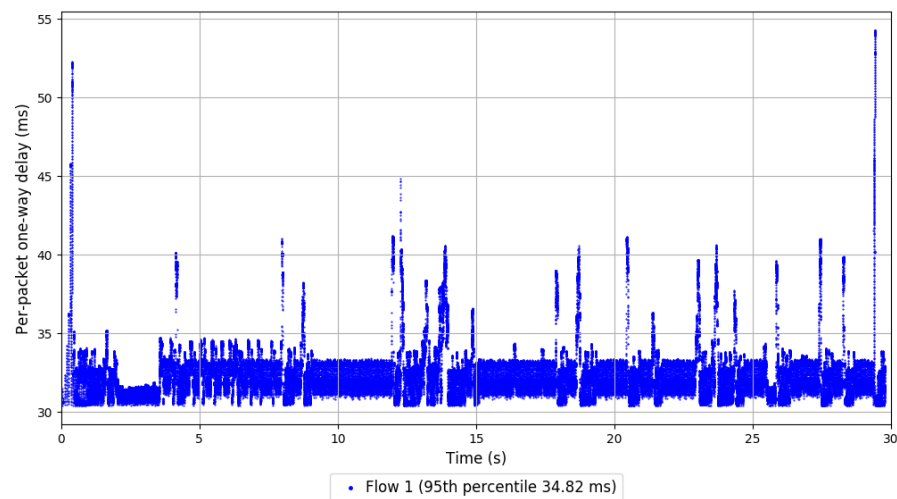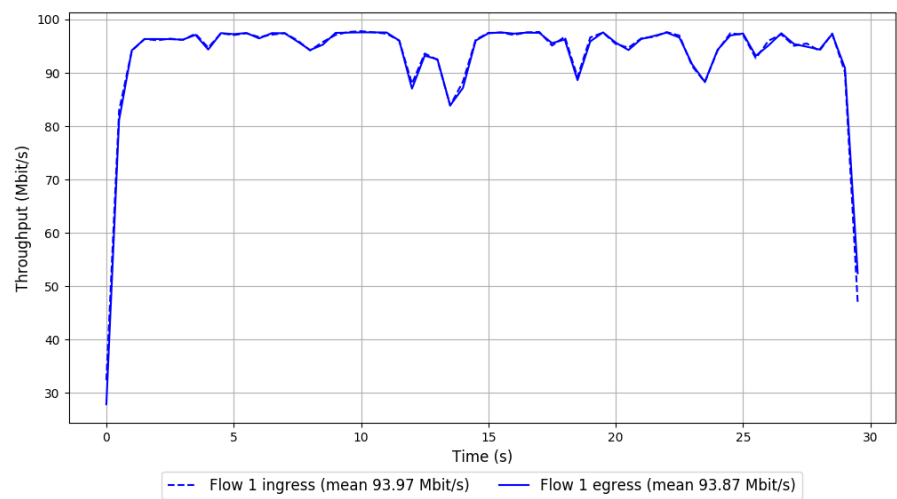
Run 8: Report of Indigo-1-32 — Data Link

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

Start at: 2018-01-26 03:15:26
End at: 2018-01-26 03:15:56
Local clock offset: 1.132 ms
Remote clock offset: -0.113 ms


# Below is generated by plot.py at 2018-01-26 10:17:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 35.580 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 92.67 Mbit/s
95th percentile per-packet one-way delay: 35.580 ms
Loss rate: 0.18%
```
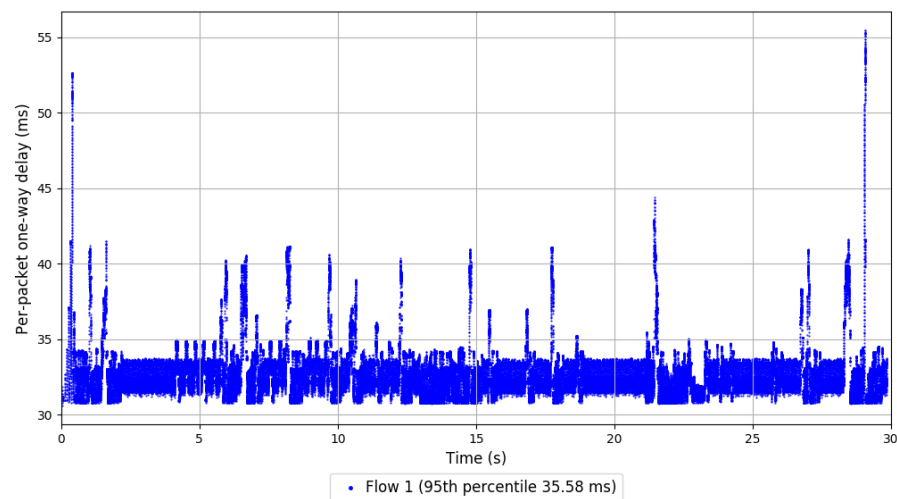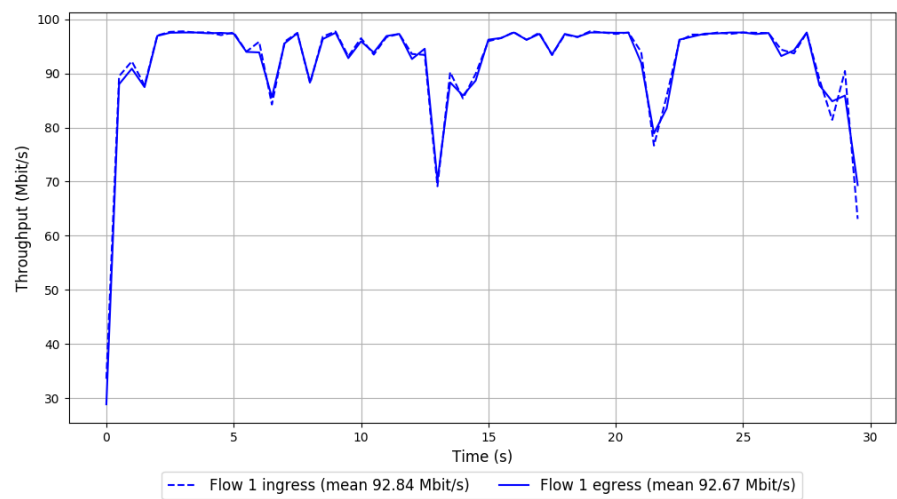
Run 9: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 92.84 Mbit/s)   Flow 1 egress (mean 92.67 Mbit/s)

Flow 1 (95th percentile 35.58 ms)

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

Start at: 2018-01-26 03:37:38
End at: 2018-01-26 03:38:08
Local clock offset: 0.991 ms
Remote clock offset: -0.362 ms


# Below is generated by plot.py at 2018-01-26 10:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 35.434 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 35.434 ms
Loss rate: 0.08%
```
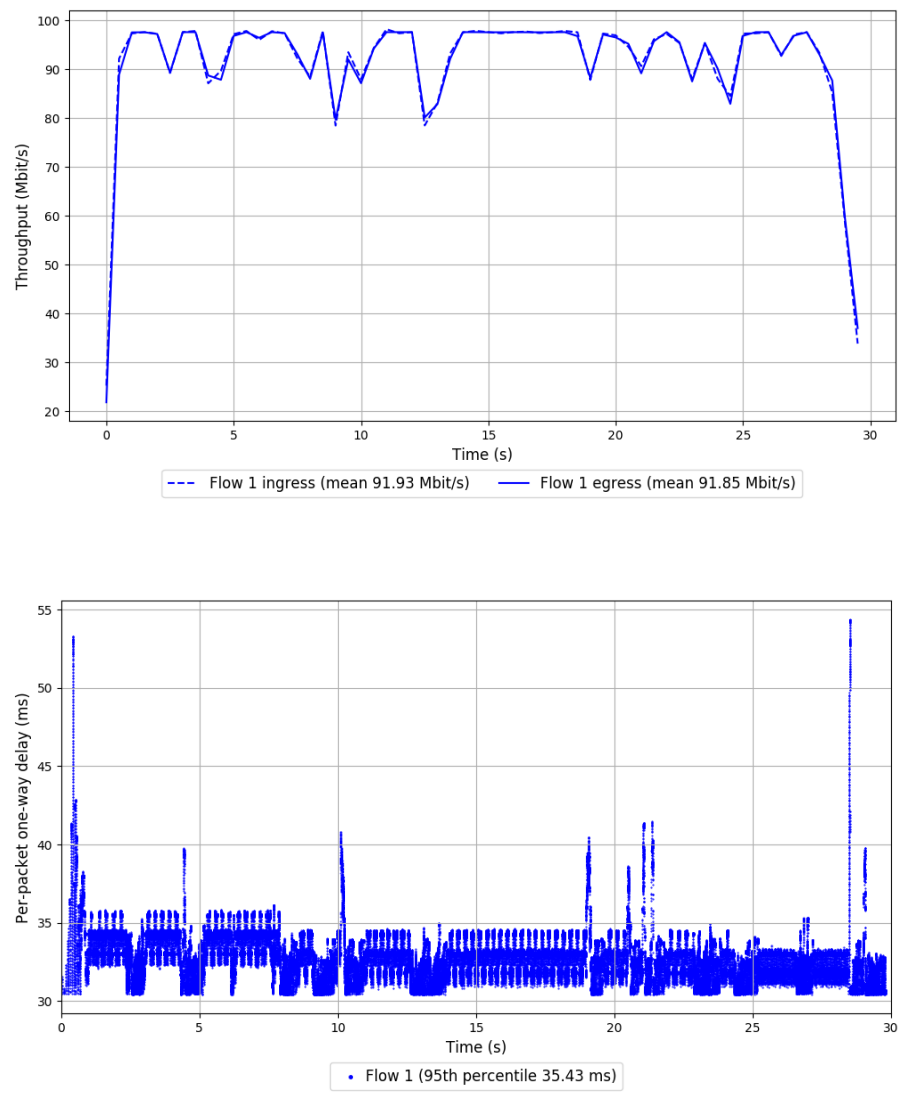
Run 10: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 91.93 Mbit/s)   Flow 1 egress (mean 91.85 Mbit/s)

Flow 1 (95th percentile 35.43 ms)

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

Start at: 2018-01-26 00:12:23
End at: 2018-01-26 00:12:53
Local clock offset: 0.864 ms
Remote clock offset: -0.977 ms


# Below is generated by plot.py at 2018-01-26 10:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.75 Mbit/s
95th percentile per-packet one-way delay: 35.911 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 73.75 Mbit/s
95th percentile per-packet one-way delay: 35.911 ms
Loss rate: 0.30%
```
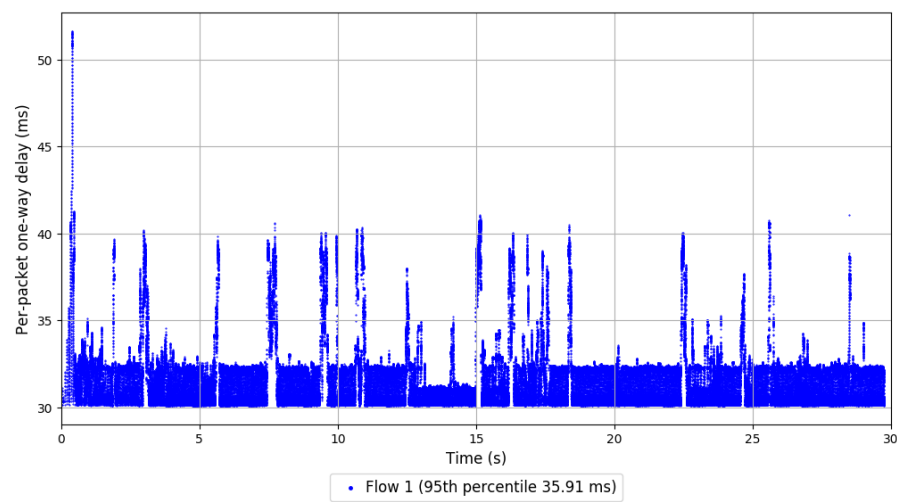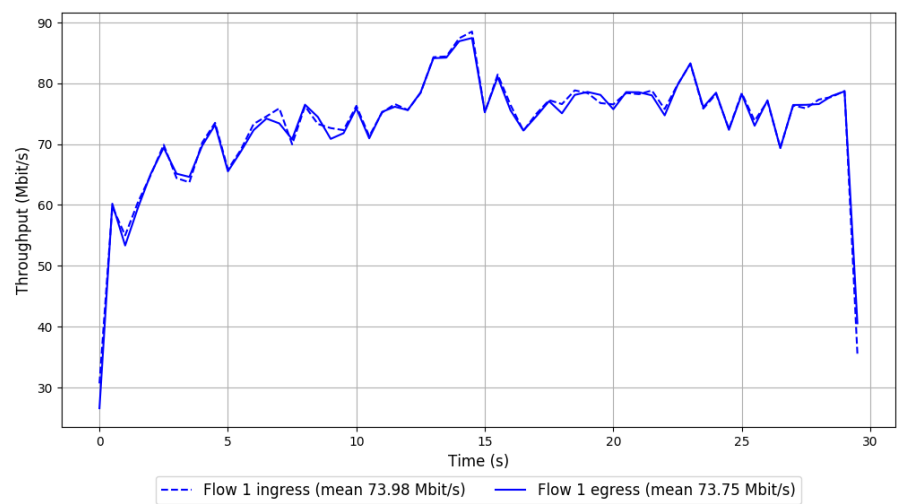
Run 1: Report of Indigo-1-128 — Data Link

```
Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 00:35:23
End at: 2018-01-26 00:35:53
Local clock offset: 0.907 ms
Remote clock offset: -1.3 ms


# Below is generated by plot.py at 2018-01-26 10:17:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.21 Mbit/s
95th percentile per-packet one-way delay: 36.929 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 81.21 Mbit/s
95th percentile per-packet one-way delay: 36.929 ms
Loss rate: 0.28%
```
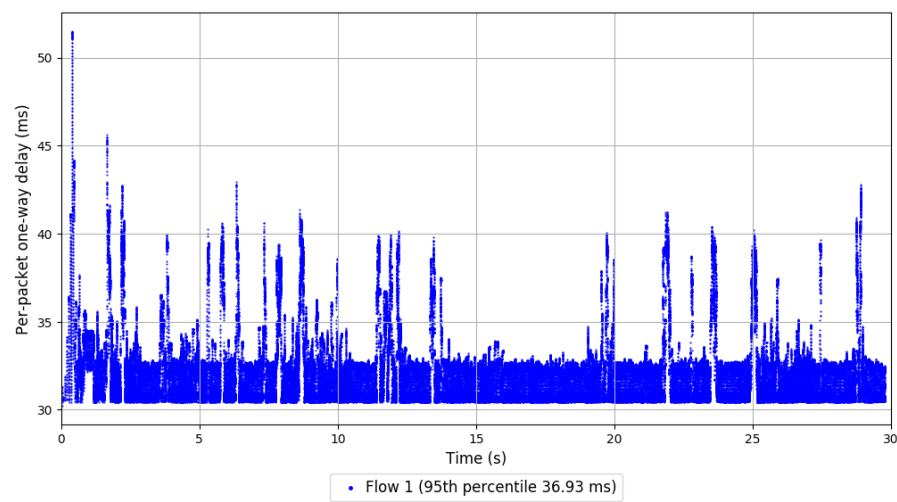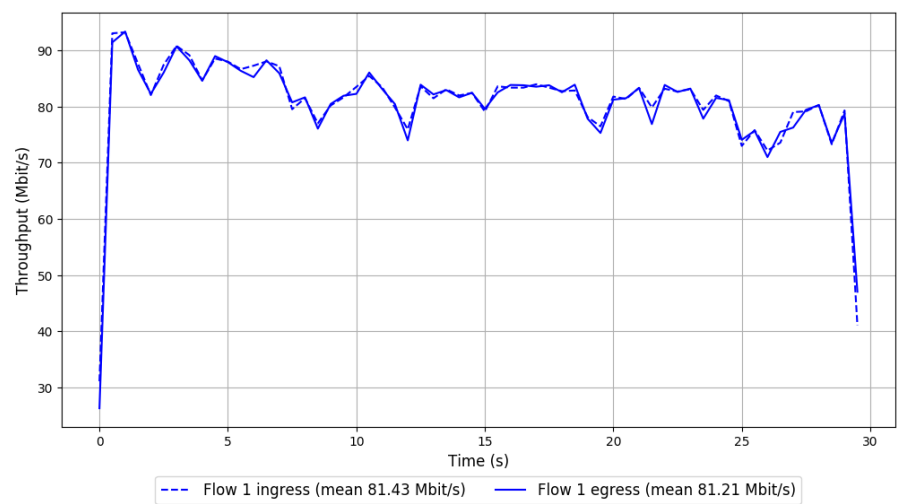
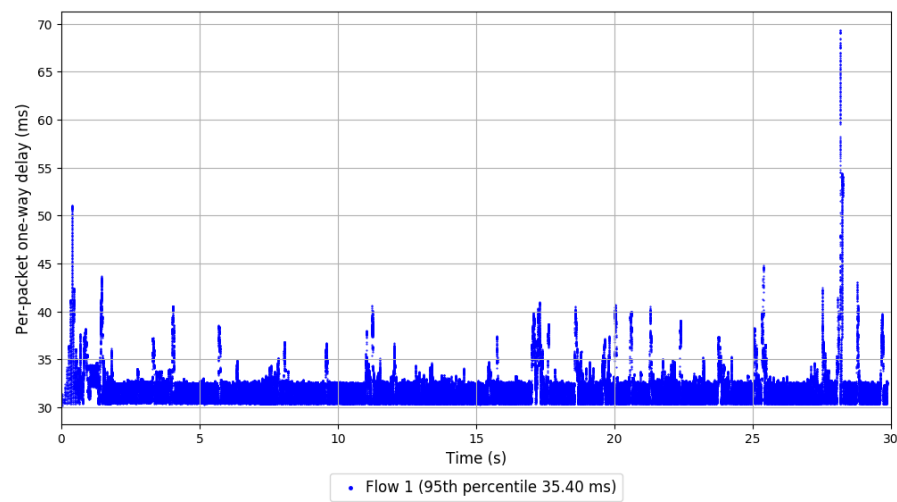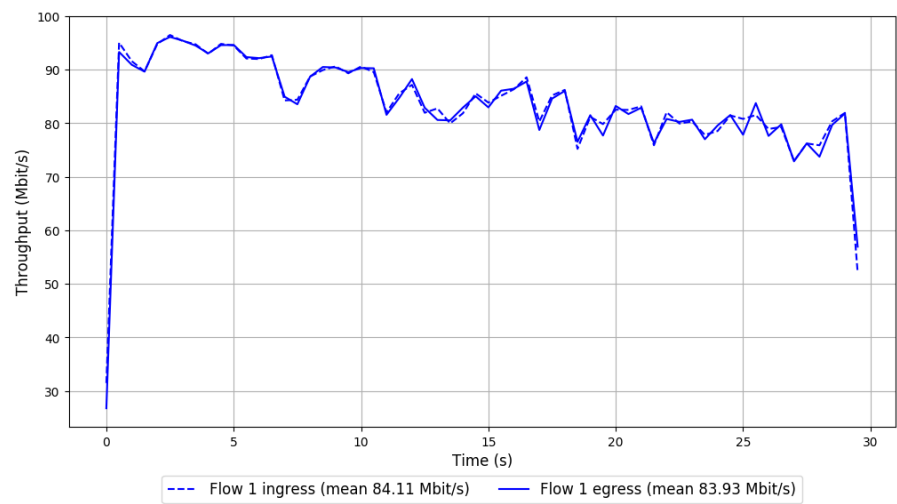Run 2: Report of Indigo-1-128 — Data Link

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

Start at: 2018-01-26 00:59:41
End at: 2018-01-26 01:00:11
Local clock offset: 1.22 ms
Remote clock offset: -1.558 ms


# Below is generated by plot.py at 2018-01-26 10:18:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.93 Mbit/s
95th percentile per-packet one-way delay: 35.398 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 83.93 Mbit/s
95th percentile per-packet one-way delay: 35.398 ms
Loss rate: 0.20%
```

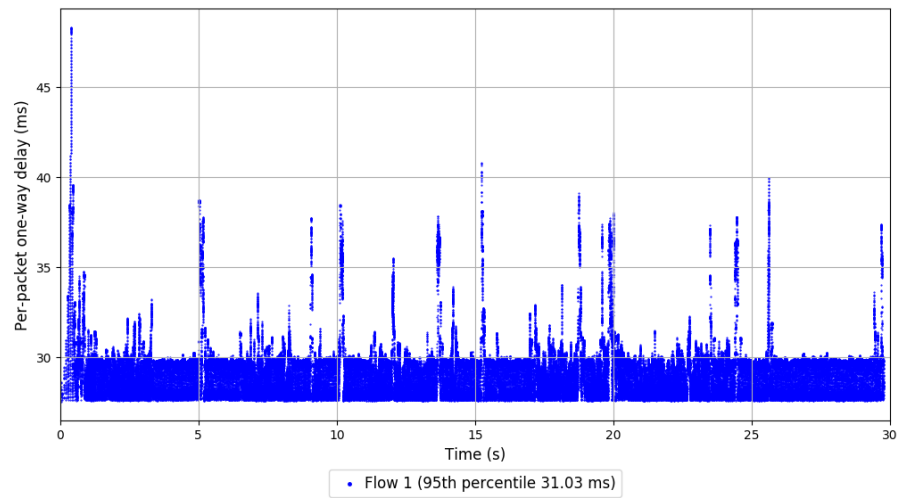Run 3: Report of Indigo-1-128 — Data Link

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

Start at: 2018-01-26 01:22:41
End at: 2018-01-26 01:23:11
Local clock offset: 1.33 ms
Remote clock offset: -3.854 ms

# Below is generated by plot.py at 2018-01-26 10:18:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.94 Mbit/s
95th percentile per-packet one-way delay: 31.028 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 82.94 Mbit/s
95th percentile per-packet one-way delay: 31.028 ms
Loss rate: 0.16%
```

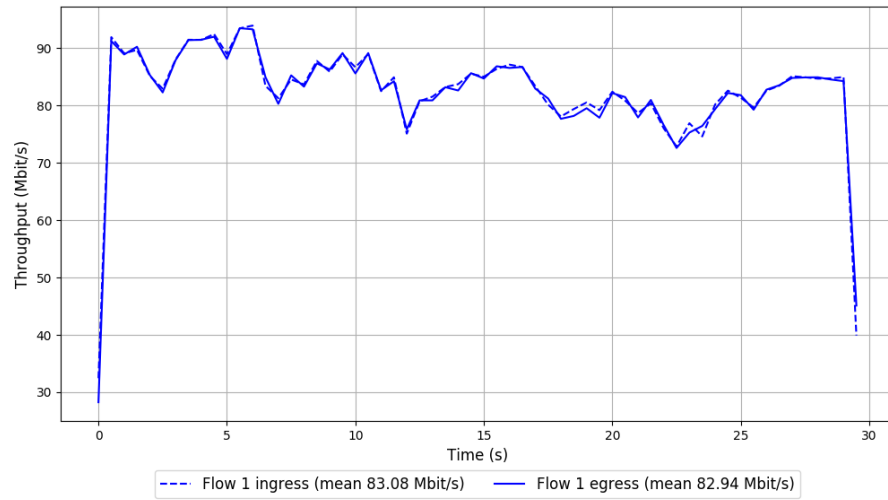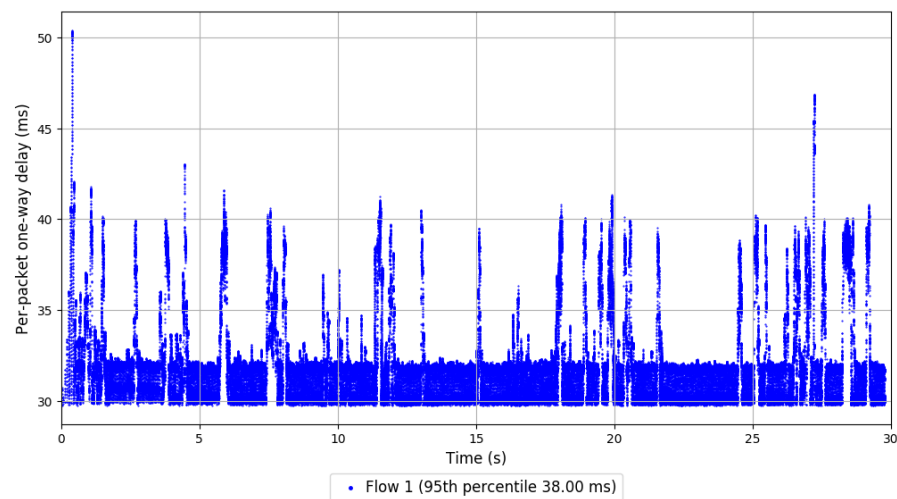# Run 4: Report of Indigo-1-128 — Data Link

```
Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 01:45:50
End at: 2018-01-26 01:46:20
Local clock offset: 1.435 ms
Remote clock offset: -2.168 ms


# Below is generated by plot.py at 2018-01-26 10:18:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 37.997 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 89.44 Mbit/s
95th percentile per-packet one-way delay: 37.997 ms
Loss rate: 0.60%
```
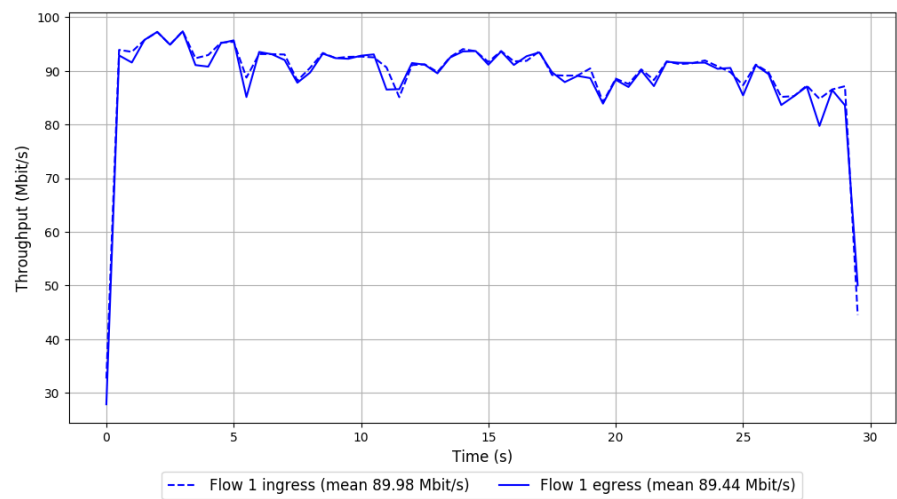
Run 5: Report of Indigo-1-128 — Data Link

Flow 1 ingress (mean 89.98 Mbit/s)   Flow 1 egress (mean 89.44 Mbit/s)

Flow 1 (95th percentile 38.00 ms)

```
Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 02:07:27
End at: 2018-01-26 02:07:57
Local clock offset: 1.401 ms
Remote clock offset: -1.937 ms


# Below is generated by plot.py at 2018-01-26 10:18:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 35.195 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 92.06 Mbit/s
95th percentile per-packet one-way delay: 35.195 ms
Loss rate: 0.13%
```
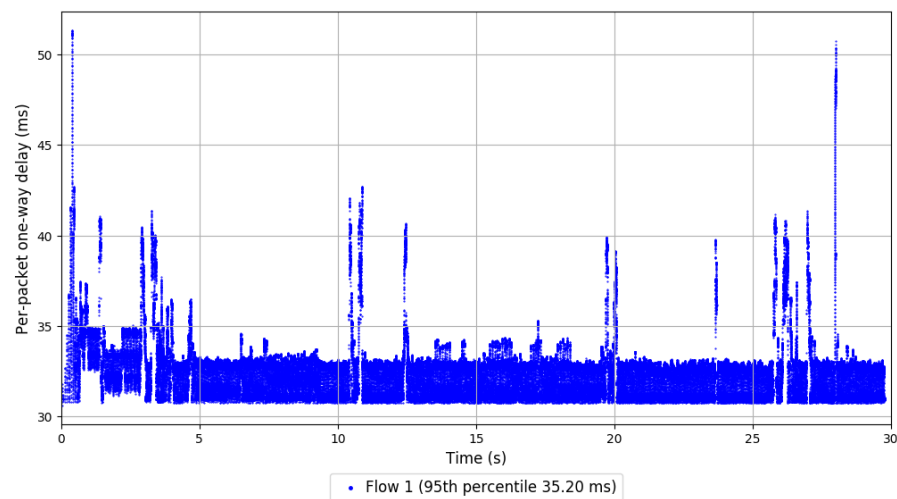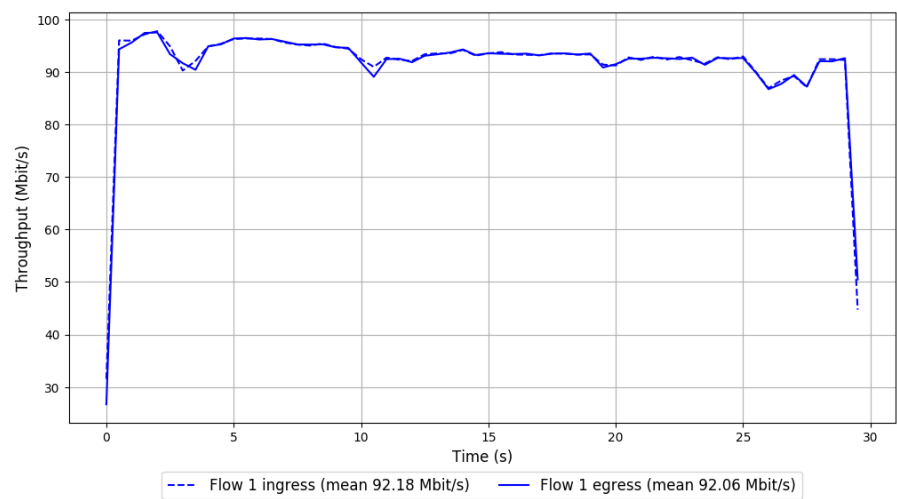
Run 6: Report of Indigo-1-128 — Data Link

Flow 1 ingress (mean 92.18 Mbit/s) ---- Flow 1 egress (mean 92.06 Mbit/s)

Flow 1 (95th percentile 35.20 ms)

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

Start at: 2018-01-26 02:28:47
End at: 2018-01-26 02:29:17
Local clock offset: 1.378 ms
Remote clock offset: -1.705 ms


# Below is generated by plot.py at 2018-01-26 10:18:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.52 Mbit/s
95th percentile per-packet one-way delay: 36.955 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 84.52 Mbit/s
95th percentile per-packet one-way delay: 36.955 ms
Loss rate: 0.47%
```
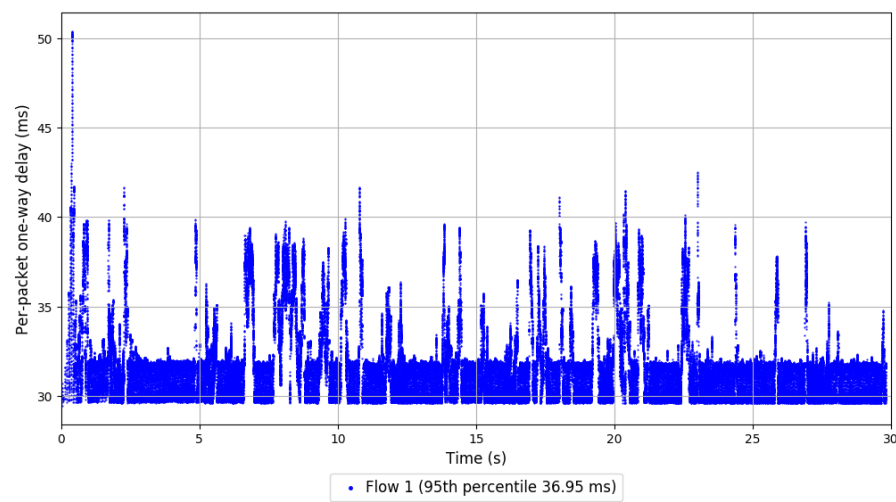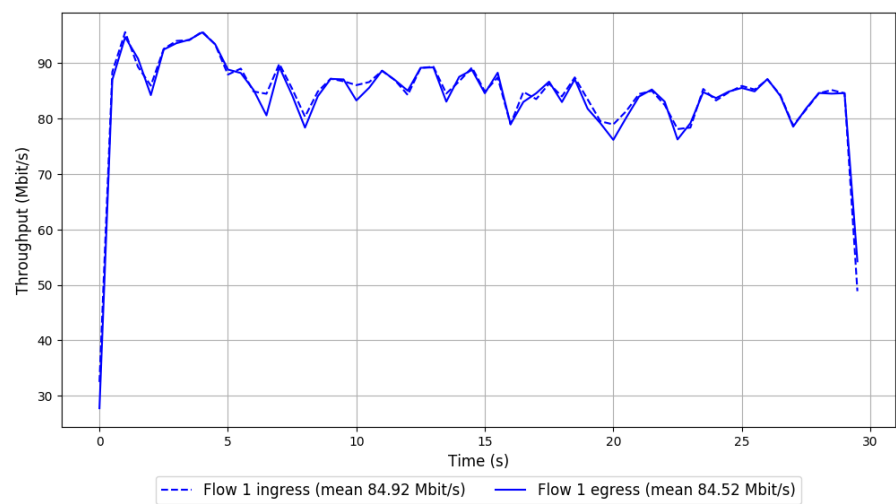
Run 7: Report of Indigo-1-128 — Data Link

Flow 1 ingress (mean 84.92 Mbit/s) ----   Flow 1 egress (mean 84.52 Mbit/s) ——

• Flow 1 (95th percentile 36.95 ms)

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

Start at: 2018-01-26 02:51:05
End at: 2018-01-26 02:51:35
Local clock offset: 1.284 ms
Remote clock offset: -3.029 ms


# Below is generated by plot.py at 2018-01-26 10:18:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 34.855 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 34.855 ms
Loss rate: 0.28%
```
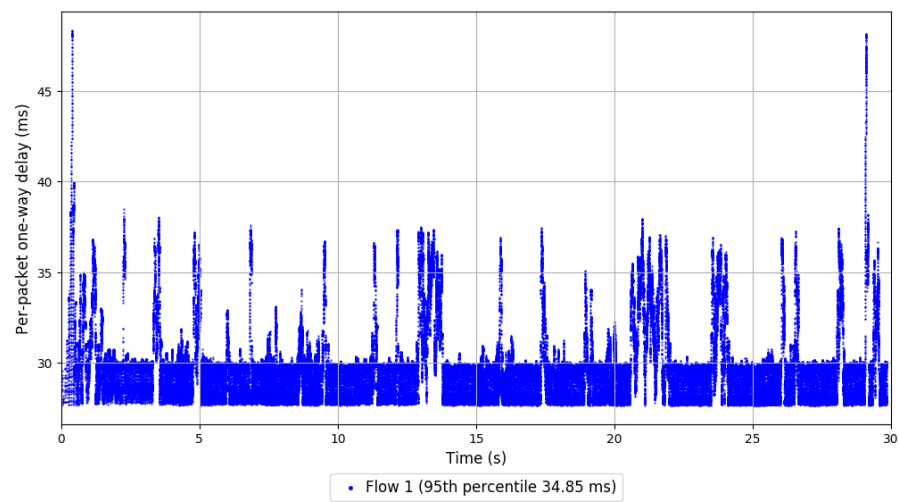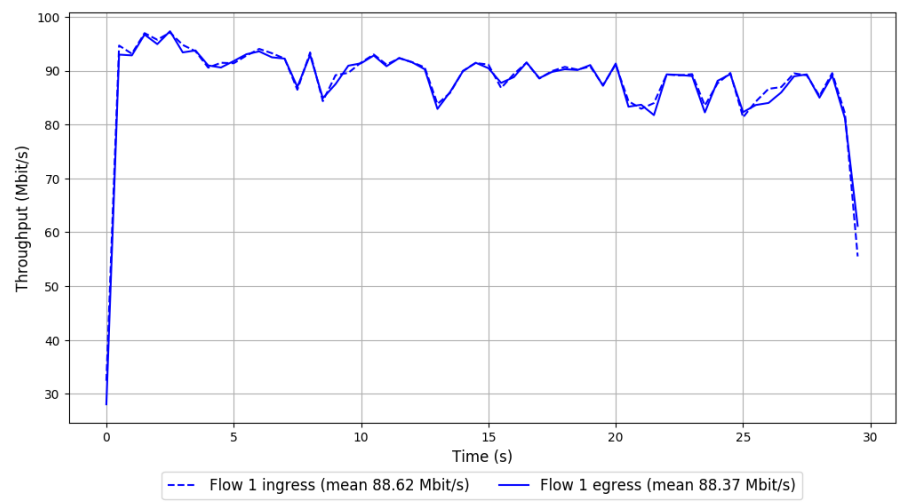
Run 8: Report of Indigo-1-128 — Data Link

Flow 1 ingress (mean 88.62 Mbit/s)   Flow 1 egress (mean 88.37 Mbit/s)
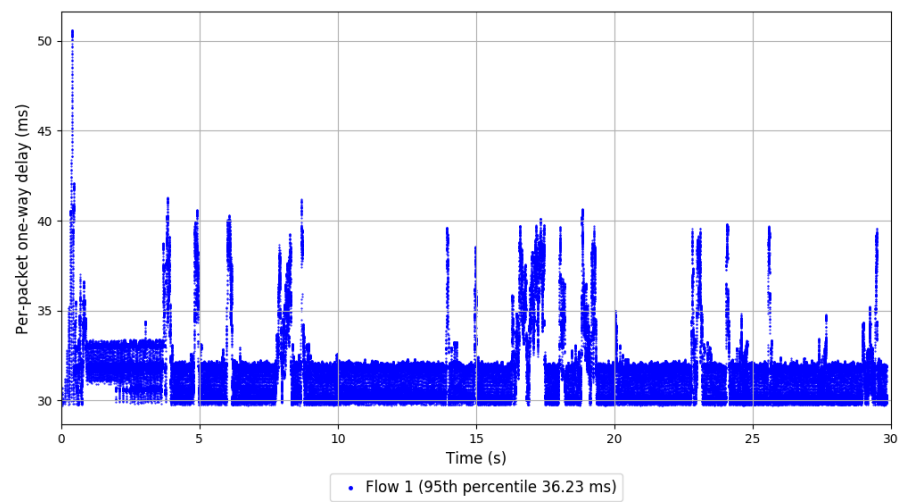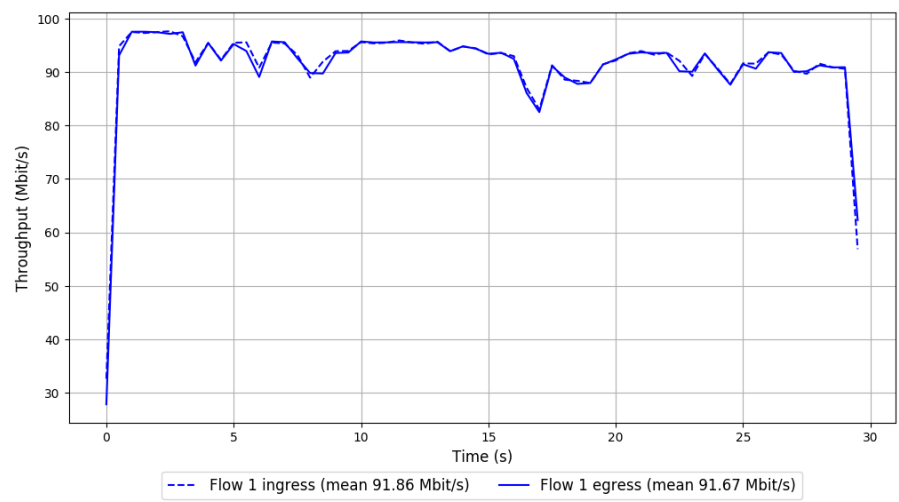

Flow 1 (95th percentile 34.85 ms)

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

Start at: 2018-01-26 03:12:40
End at: 2018-01-26 03:13:10
Local clock offset: 1.137 ms
Remote clock offset: -0.482 ms


# Below is generated by plot.py at 2018-01-26 10:18:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 36.232 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 91.67 Mbit/s
95th percentile per-packet one-way delay: 36.232 ms
Loss rate: 0.20%
```

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

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

Start at: 2018-01-26 03:34:50
End at: 2018-01-26 03:35:20
Local clock offset: 0.884 ms
Remote clock offset: -2.433 ms


# Below is generated by plot.py at 2018-01-26 10:18:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.60 Mbit/s
95th percentile per-packet one-way delay: 32.294 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 77.60 Mbit/s
95th percentile per-packet one-way delay: 32.294 ms
Loss rate: 0.17%
```

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

Flow 1 ingress (mean 77.73 Mbit/s)　　Flow 1 egress (mean 77.60 Mbit/s)

• Flow 1 (95th percentile 32.29 ms)