Pantheon Report

Generated at 2018-02-02 17:46:19 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

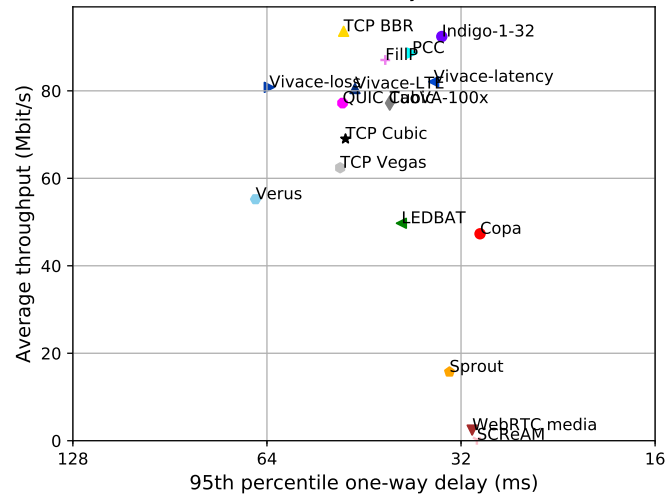Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

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

```
Git summary:
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```
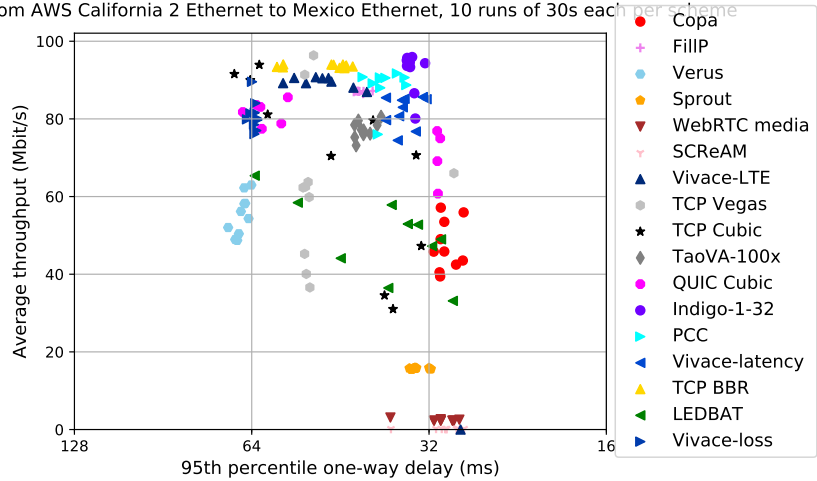
test from AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)

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	93.61	48.67	0.86
TCP Cubic	10	69.02	48.34	0.30
LEDBAT	10	49.72	39.60	0.09
PCC	10	88.64	38.11	0.58
QUIC Cubic	10	77.20	48.86	0.56
SCReAM	10	0.21	30.24	0.09
WebRTC media	10	2.42	30.75	0.10
Sprout	10	15.74	33.35	0.05
TaoVA-100x	10	77.19	41.28	0.08
TCP Vegas	10	62.41	49.27	0.32
Verus	10	55.22	66.66	33.51
Copa	10	47.32	29.90	0.04
FillP	10	87.05	41.94	2.37
Indigo-1-32	10	92.43	34.28	0.14
Vivace-latency	10	82.07	35.29	0.17
Vivace-loss	10	80.80	63.47	5.07
Vivace-LTE	10	80.53	46.73	0.81

```
Run 1: Statistics of TCP BBR

Start at: 2018-02-02 13:06:34
End at: 2018-02-02 13:07:04
Local clock offset: 1.137 ms
Remote clock offset: -1.971 ms

# Below is generated by plot.py at 2018-02-02 17:24:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.49 Mbit/s
95th percentile per-packet one-way delay: 43.127 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 93.49 Mbit/s
95th percentile per-packet one-way delay: 43.127 ms
Loss rate: 0.88%
```
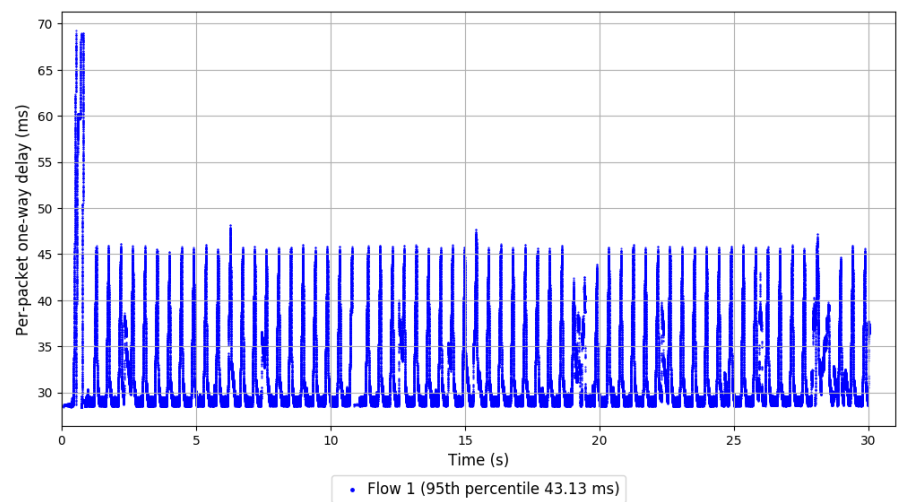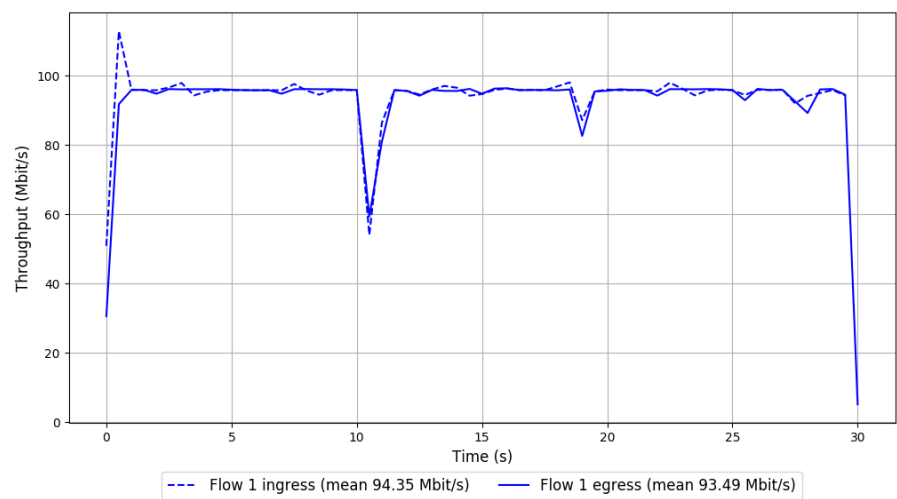
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2018-02-02 13:30:36
End at: 2018-02-02 13:31:06
Local clock offset: 1.096 ms
Remote clock offset: -1.006 ms


# Below is generated by plot.py at 2018-02-02 17:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 44.805 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 44.805 ms
Loss rate: 0.66%
```
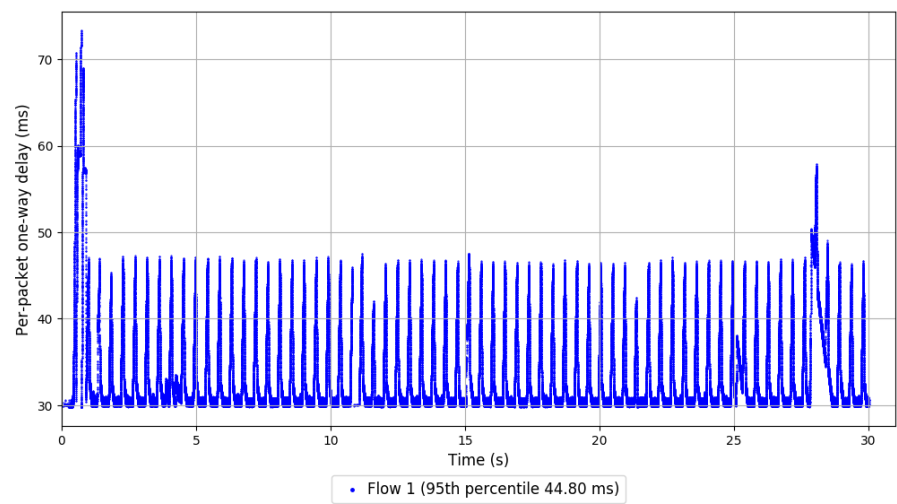
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2018-02-02 13:55:03
End at: 2018-02-02 13:55:33
Local clock offset: 1.138 ms
Remote clock offset: -0.906 ms


# Below is generated by plot.py at 2018-02-02 17:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 46.474 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 93.95 Mbit/s
95th percentile per-packet one-way delay: 46.474 ms
Loss rate: 0.66%
```

Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2018-02-02 14:19:20
End at: 2018-02-02 14:19:50
Local clock offset: 0.999 ms
Remote clock offset: -0.541 ms


# Below is generated by plot.py at 2018-02-02 17:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 46.865 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 46.865 ms
Loss rate: 0.82%
```
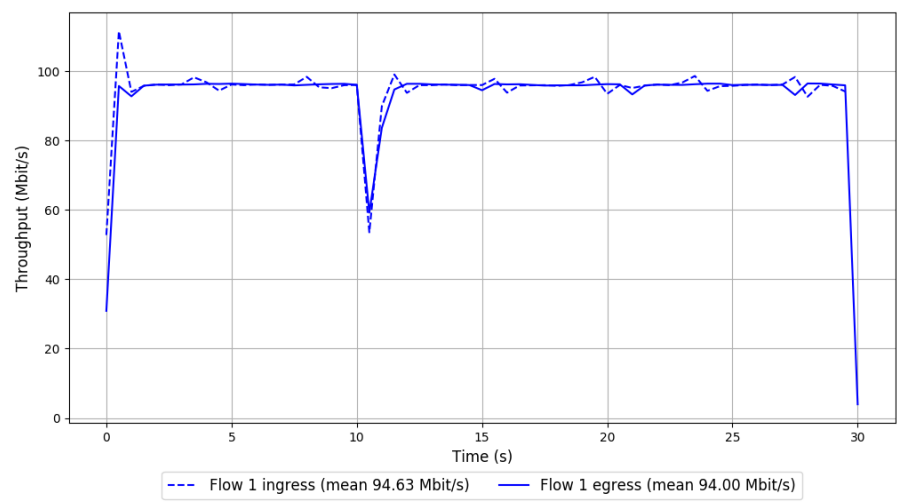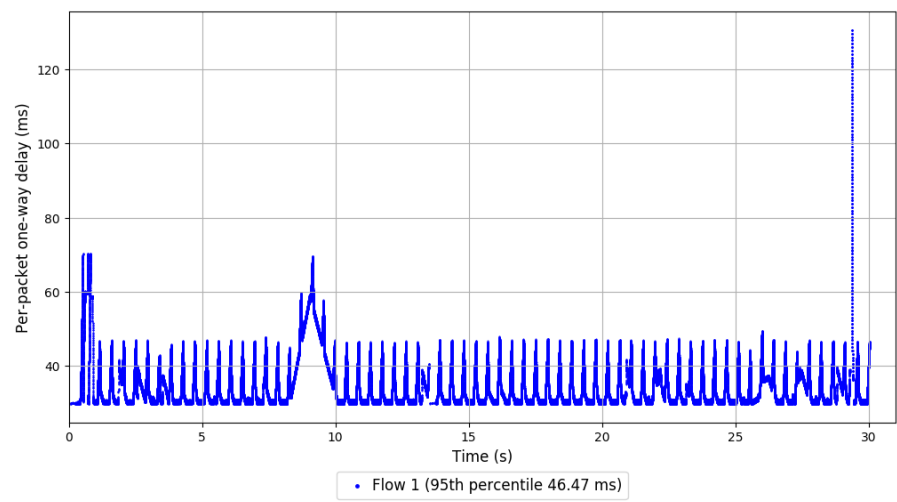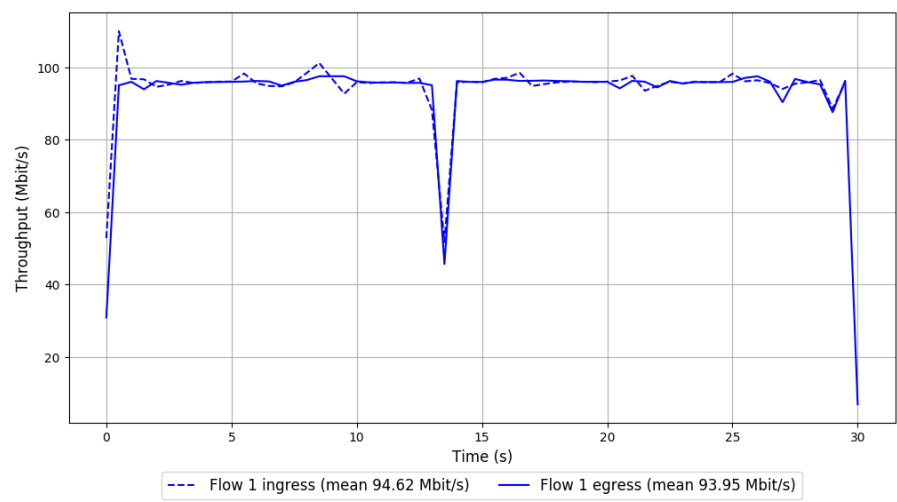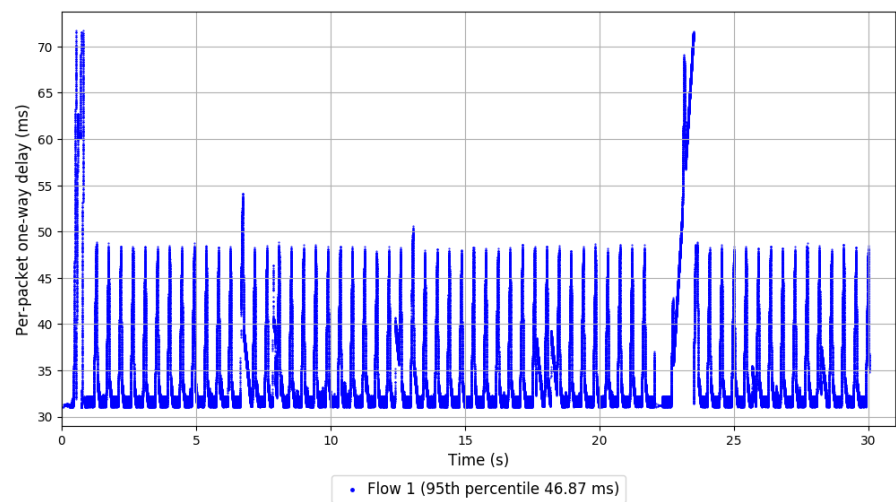
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.79 Mbit/s)   Flow 1 egress (mean 94.00 Mbit/s)
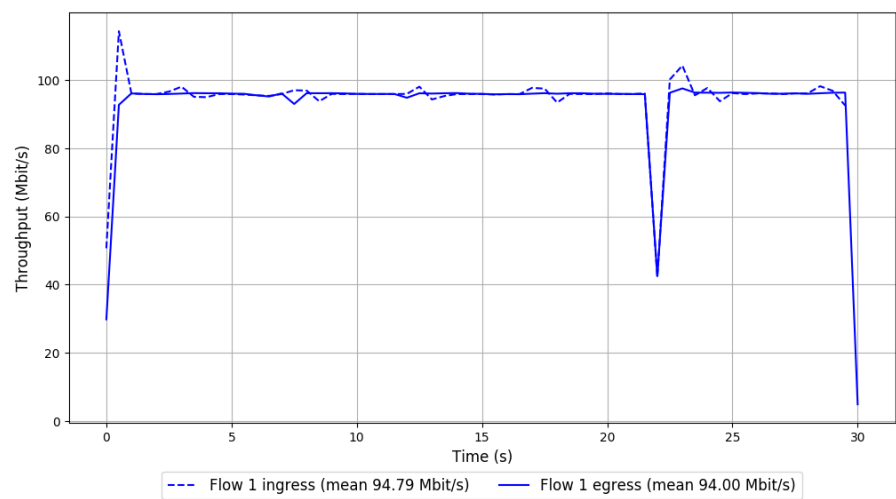

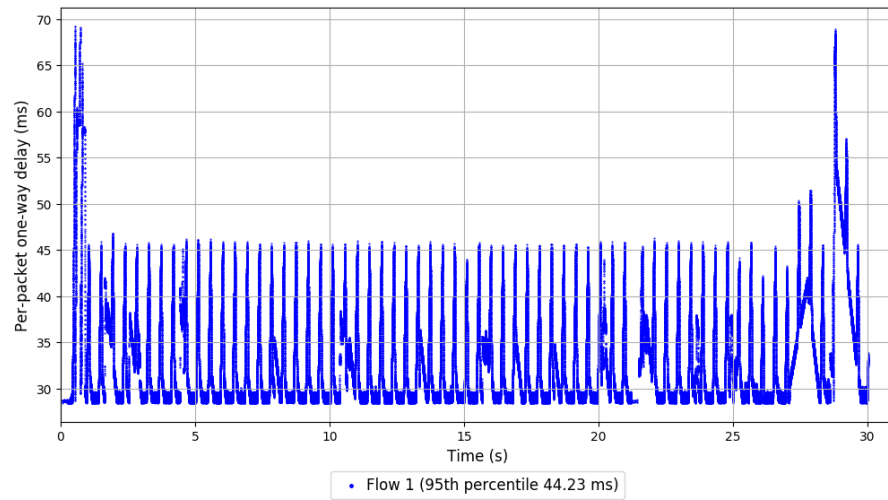• Flow 1 (95th percentile 46.87 ms)

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```
Run 5: Statistics of TCP BBR

Start at: 2018-02-02 14:44:10
End at: 2018-02-02 14:44:40
Local clock offset: 0.863 ms
Remote clock offset: -3.607 ms


# Below is generated by plot.py at 2018-02-02 17:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 44.235 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 93.76 Mbit/s
95th percentile per-packet one-way delay: 44.235 ms
Loss rate: 0.75%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.48 Mbit/s) --- Flow 1 egress (mean 93.76 Mbit/s)
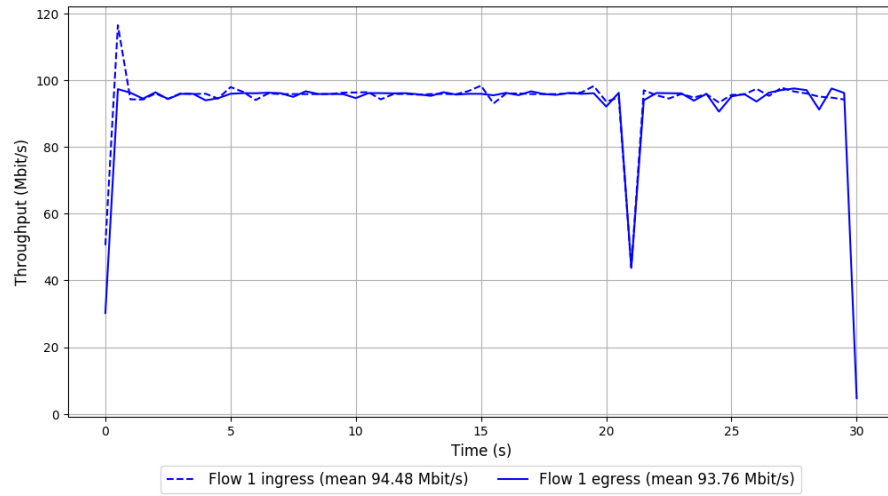

• Flow 1 (95th percentile 44.23 ms)

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```
Run 6: Statistics of TCP BBR

Start at: 2018-02-02 15:08:24
End at: 2018-02-02 15:08:54
Local clock offset: 0.606 ms
Remote clock offset: -1.426 ms


# Below is generated by plot.py at 2018-02-02 17:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 57.984 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 93.39 Mbit/s
95th percentile per-packet one-way delay: 57.984 ms
Loss rate: 1.38%
```
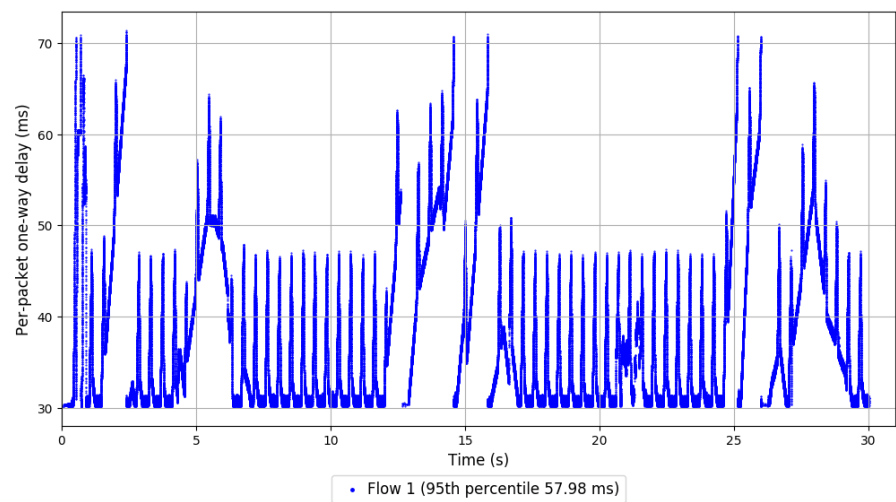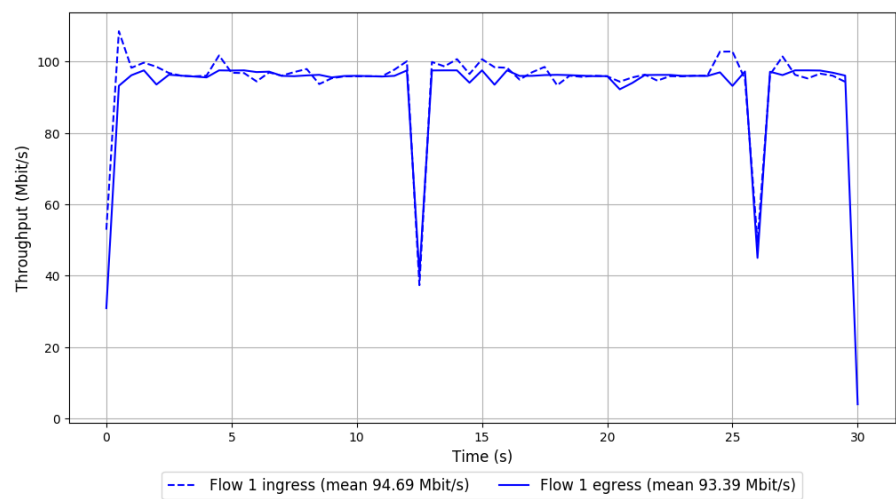
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.69 Mbit/s)   Flow 1 egress (mean 93.39 Mbit/s)

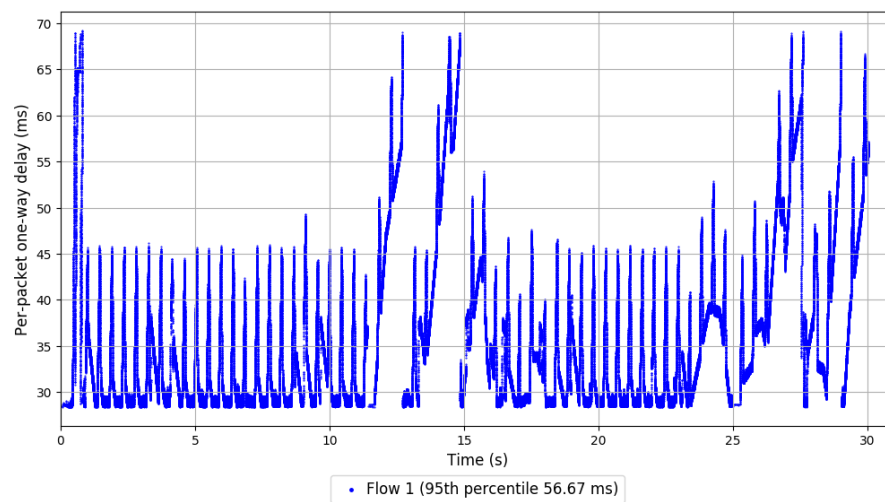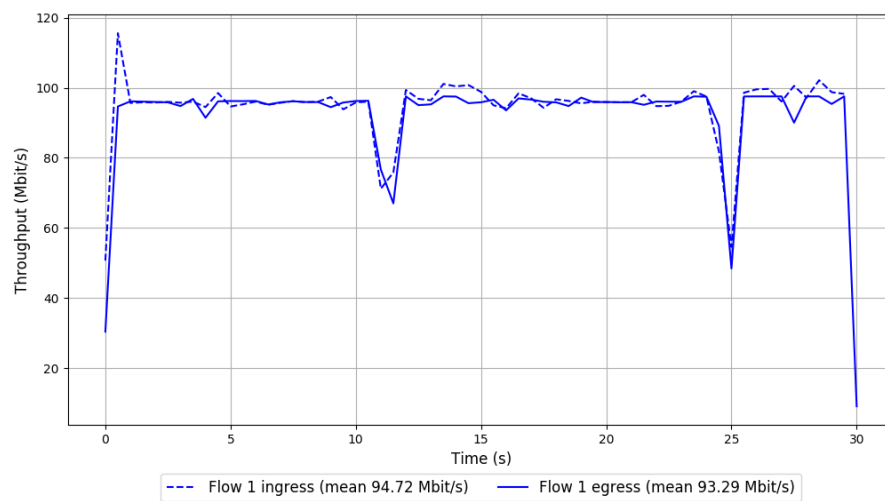

• Flow 1 (95th percentile 57.98 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-02-02 15:33:42
End at: 2018-02-02 15:34:12
Local clock offset: 0.297 ms
Remote clock offset: -4.447 ms


# Below is generated by plot.py at 2018-02-02 17:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 56.674 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 93.29 Mbit/s
95th percentile per-packet one-way delay: 56.674 ms
Loss rate: 1.42%
```

Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.72 Mbit/s) --- Flow 1 egress (mean 93.29 Mbit/s)

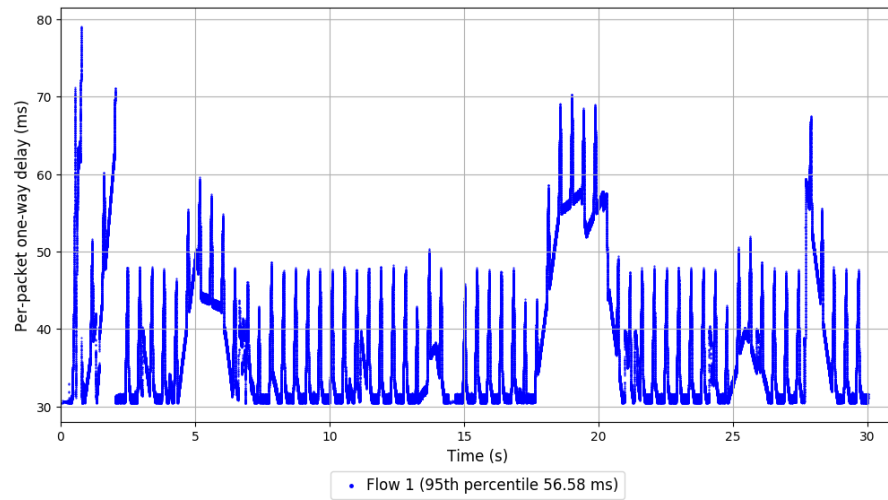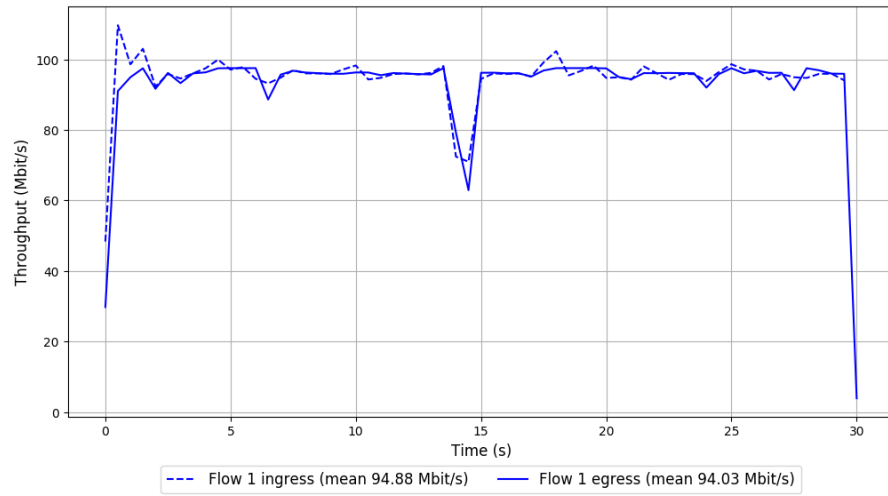

• Flow 1 (95th percentile 56.67 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-02-02 15:59:00
End at: 2018-02-02 15:59:30
Local clock offset: 0.08 ms
Remote clock offset: -2.453 ms


# Below is generated by plot.py at 2018-02-02 17:24:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 56.579 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 56.579 ms
Loss rate: 0.89%
```

Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.88 Mbit/s)   Flow 1 egress (mean 94.03 Mbit/s)

Flow 1 (95th percentile 56.58 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-02-02 16:22:58
End at: 2018-02-02 16:23:28
Local clock offset: -0.044 ms
Remote clock offset: -2.95 ms

# Below is generated by plot.py at 2018-02-02 17:25:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 44.547 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 93.08 Mbit/s
95th percentile per-packet one-way delay: 44.547 ms
Loss rate: 0.61%
```
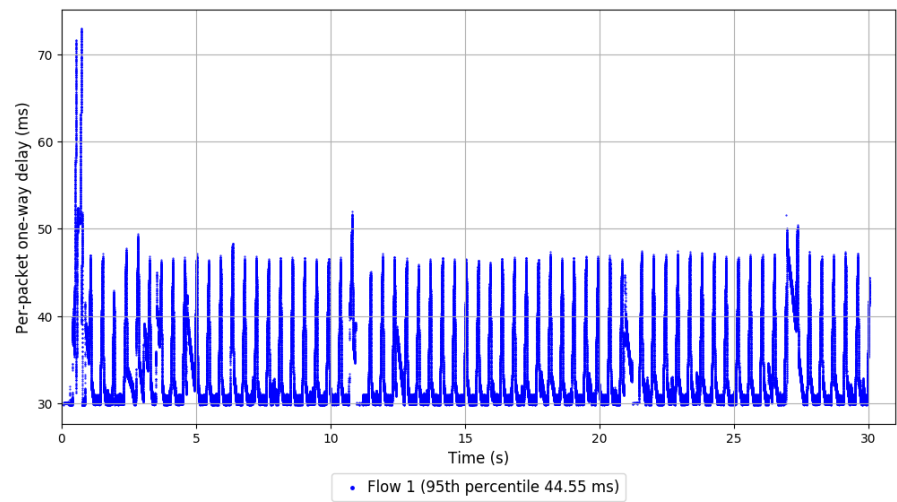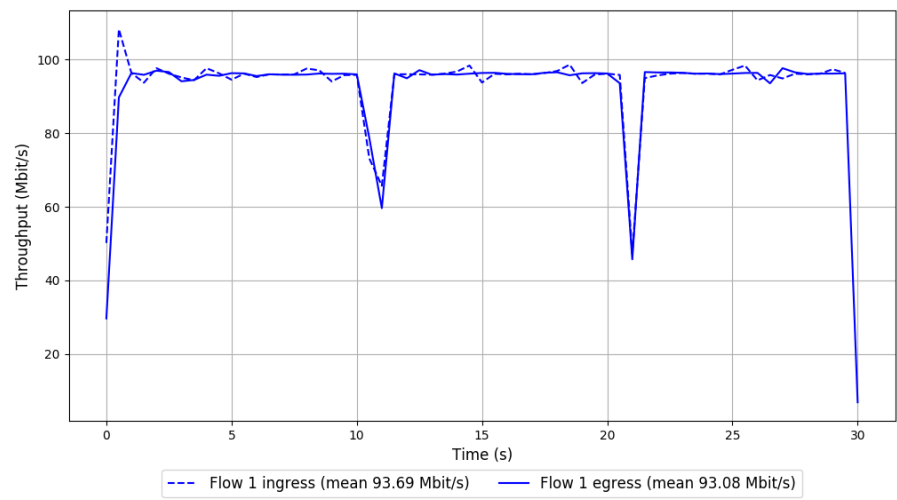
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.69 Mbit/s)   Flow 1 egress (mean 93.08 Mbit/s)
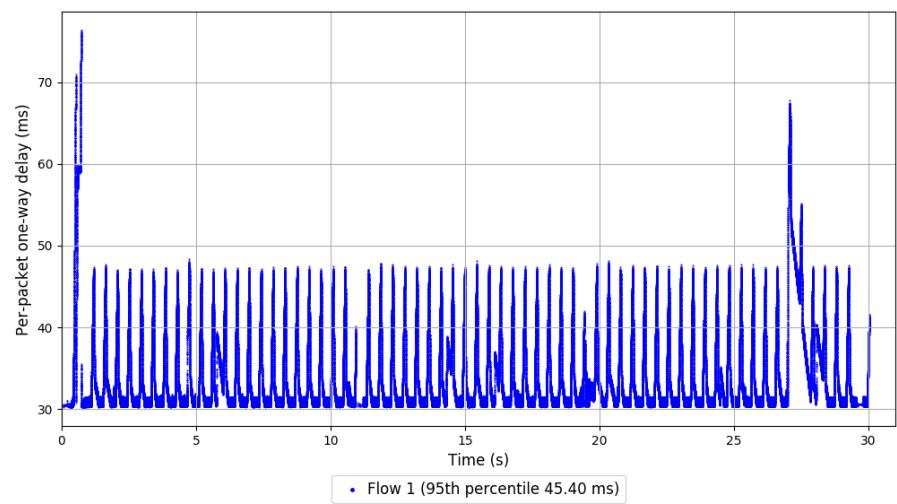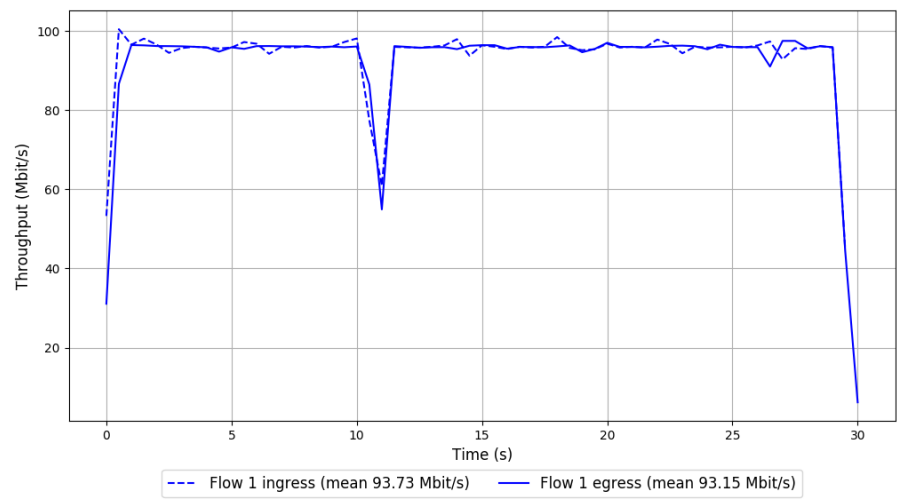

Flow 1 (95th percentile 44.55 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-02-02 16:47:06
End at: 2018-02-02 16:47:36
Local clock offset: -0.291 ms
Remote clock offset: -2.926 ms


# Below is generated by plot.py at 2018-02-02 17:25:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 45.402 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 45.402 ms
Loss rate: 0.58%
```

Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.73 Mbit/s) --- Flow 1 egress (mean 93.15 Mbit/s)

• Flow 1 (95th percentile 45.40 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2018-02-02 13:07:55
End at: 2018-02-02 13:08:25
Local clock offset: 1.165 ms
Remote clock offset: 0.109 ms


# Below is generated by plot.py at 2018-02-02 17:25:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.63 Mbit/s
95th percentile per-packet one-way delay: 39.823 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 79.63 Mbit/s
95th percentile per-packet one-way delay: 39.823 ms
Loss rate: 0.13%
```
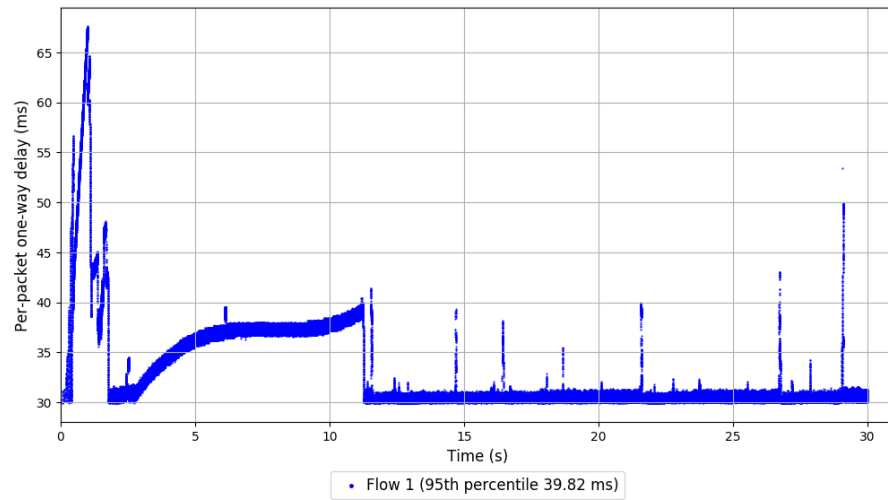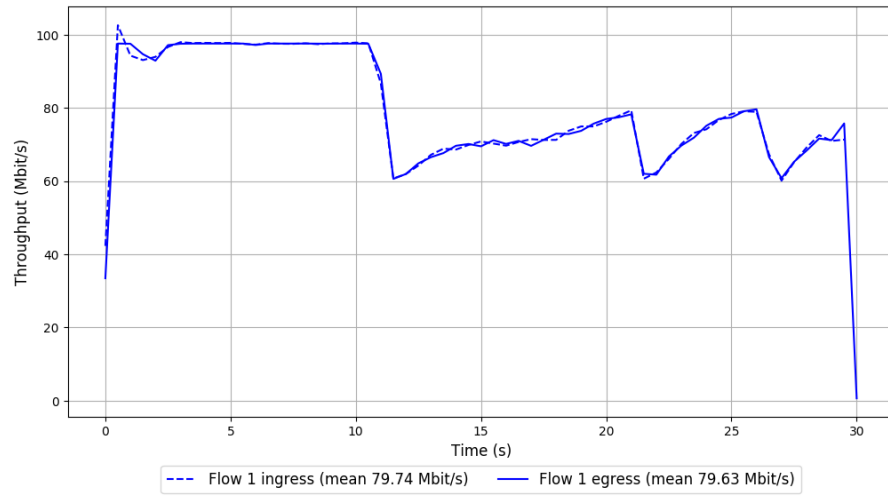
Run 1: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 79.74 Mbit/s)   Flow 1 egress (mean 79.63 Mbit/s)
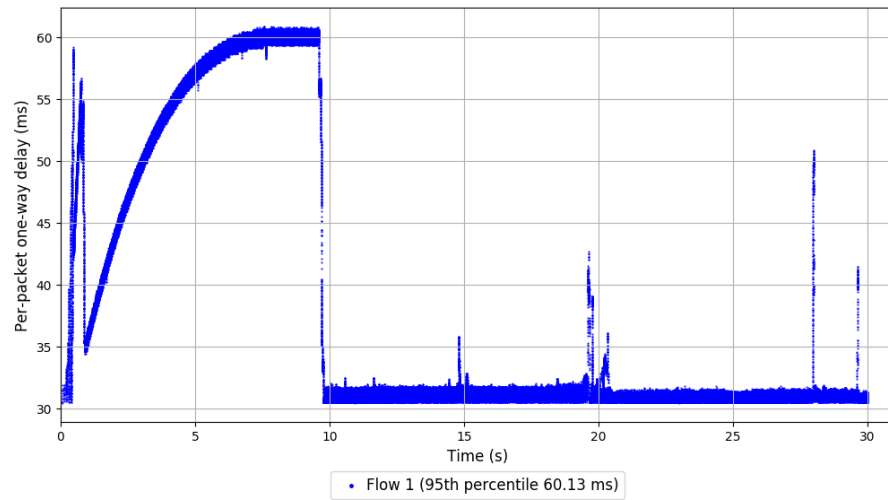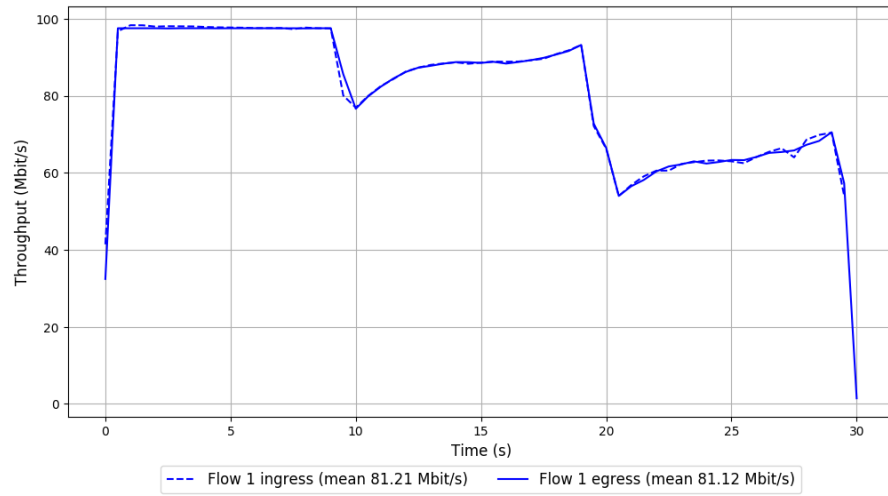

Flow 1 (95th percentile 39.82 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2018-02-02 13:31:58
End at: 2018-02-02 13:32:28
Local clock offset: 1.088 ms
Remote clock offset: -0.933 ms


# Below is generated by plot.py at 2018-02-02 17:25:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.12 Mbit/s
95th percentile per-packet one-way delay: 60.134 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 81.12 Mbit/s
95th percentile per-packet one-way delay: 60.134 ms
Loss rate: 0.11%
```

Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 81.21 Mbit/s) — — — Flow 1 egress (mean 81.12 Mbit/s)
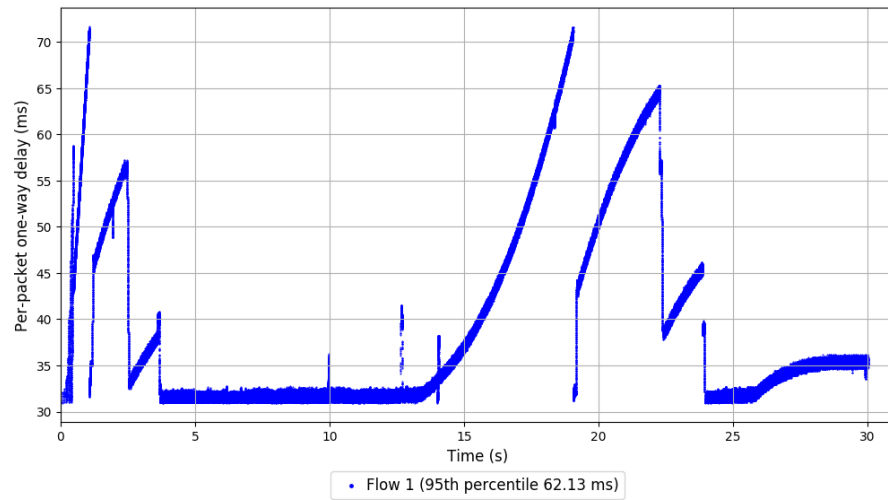
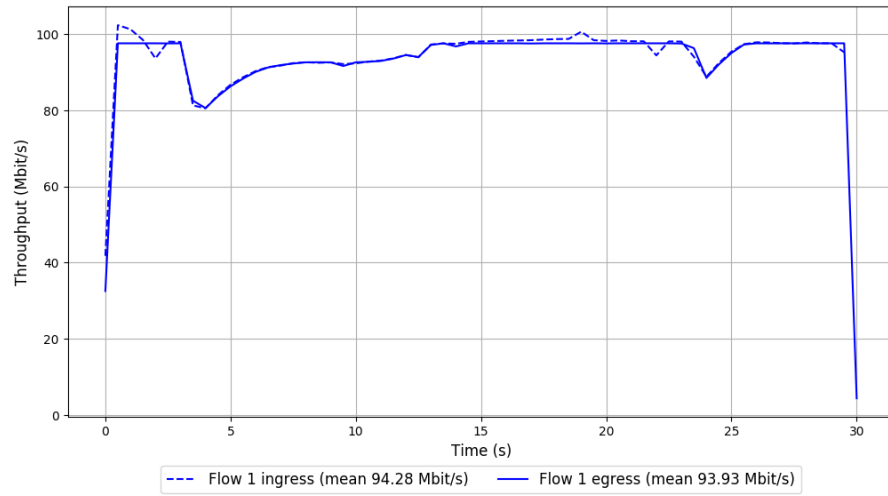

• Flow 1 (95th percentile 60.13 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2018-02-02 13:56:25
End at: 2018-02-02 13:56:55
Local clock offset: 1.152 ms
Remote clock offset: -0.349 ms


# Below is generated by plot.py at 2018-02-02 17:25:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 62.127 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 62.127 ms
Loss rate: 0.36%
```

Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 94.28 Mbit/s)   ——— Flow 1 egress (mean 93.93 Mbit/s)
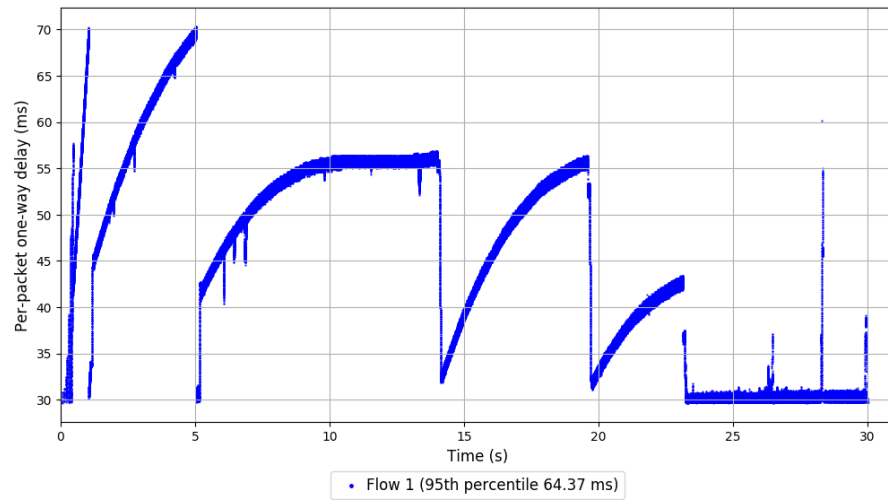
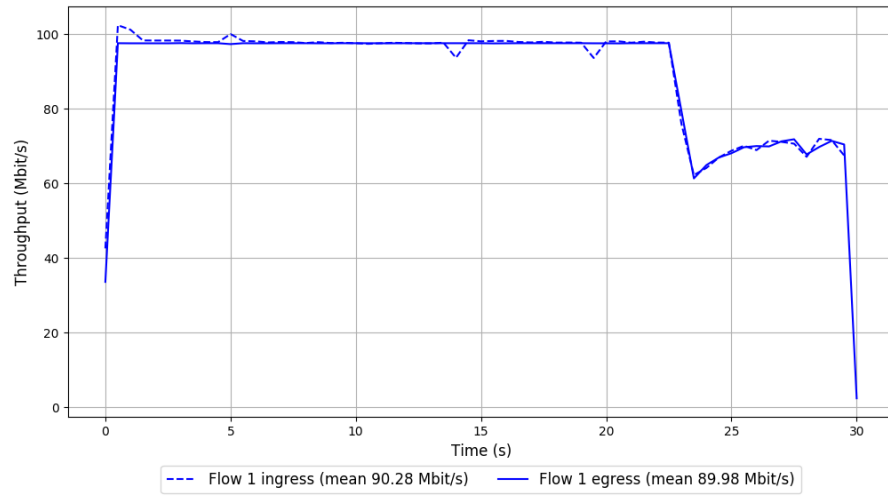

• Flow 1 (95th percentile 62.13 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2018-02-02 14:20:40
End at: 2018-02-02 14:21:10
Local clock offset: 1.078 ms
Remote clock offset: -1.147 ms


# Below is generated by plot.py at 2018-02-02 17:25:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.98 Mbit/s
95th percentile per-packet one-way delay: 64.369 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 89.98 Mbit/s
95th percentile per-packet one-way delay: 64.369 ms
Loss rate: 0.34%
```

Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2018-02-02 14:45:30
End at: 2018-02-02 14:46:00
Local clock offset: 0.884 ms
Remote clock offset: -1.58 ms


# Below is generated by plot.py at 2018-02-02 17:25:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 32.984 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 47.28 Mbit/s
95th percentile per-packet one-way delay: 32.984 ms
Loss rate: 0.25%
```
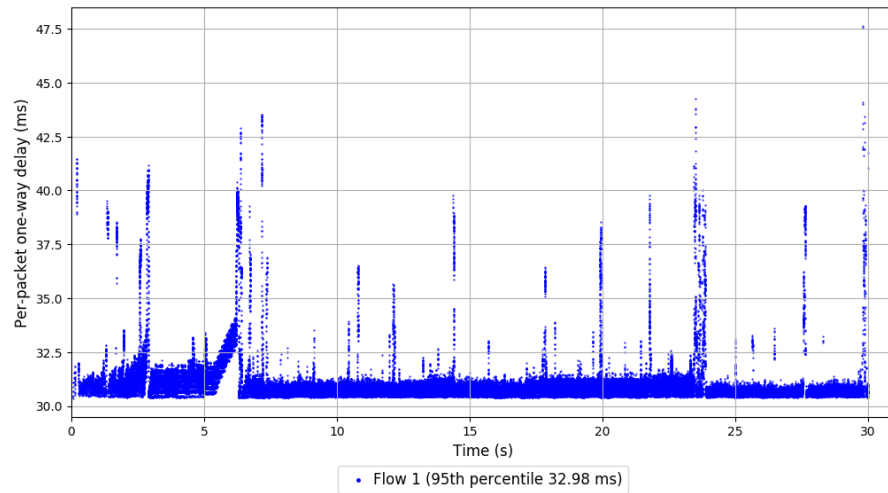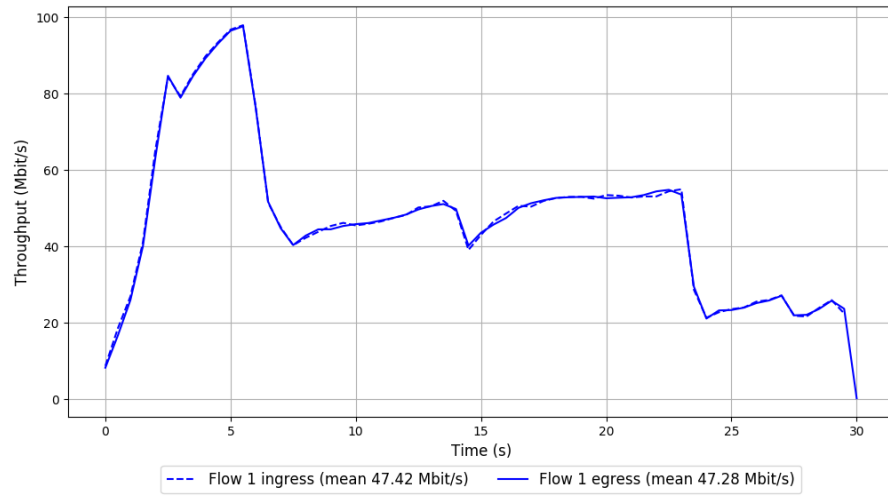
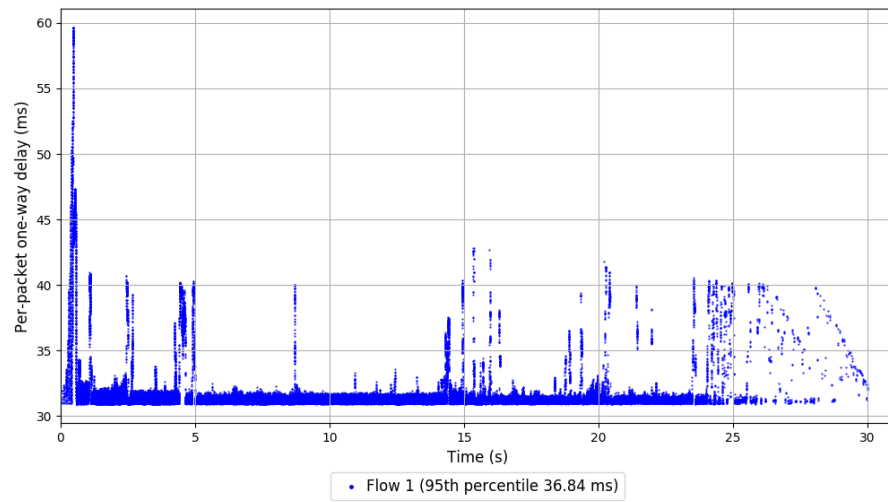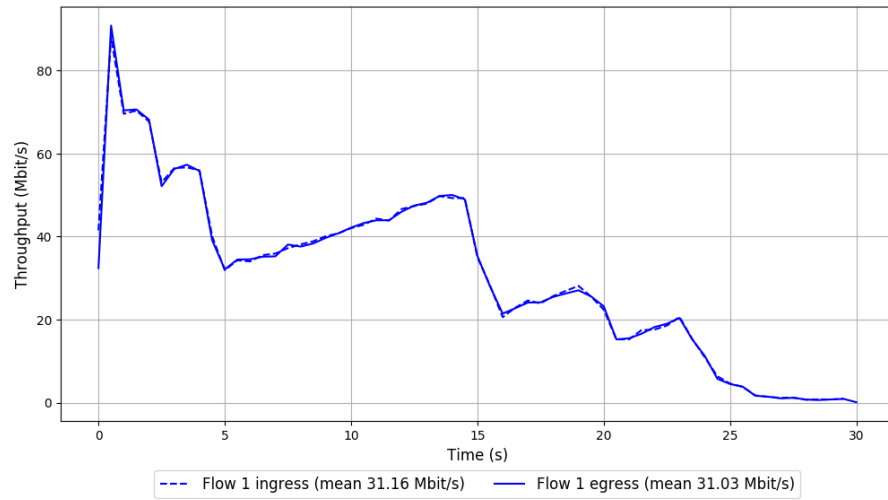Run 5: Report of TCP Cubic — Data Link

```
Run 6: Statistics of TCP Cubic

Start at: 2018-02-02 15:09:50
End at: 2018-02-02 15:10:20
Local clock offset: 0.57 ms
Remote clock offset: -1.407 ms


# Below is generated by plot.py at 2018-02-02 17:25:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 36.838 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 31.03 Mbit/s
95th percentile per-packet one-way delay: 36.838 ms
Loss rate: 0.42%
```

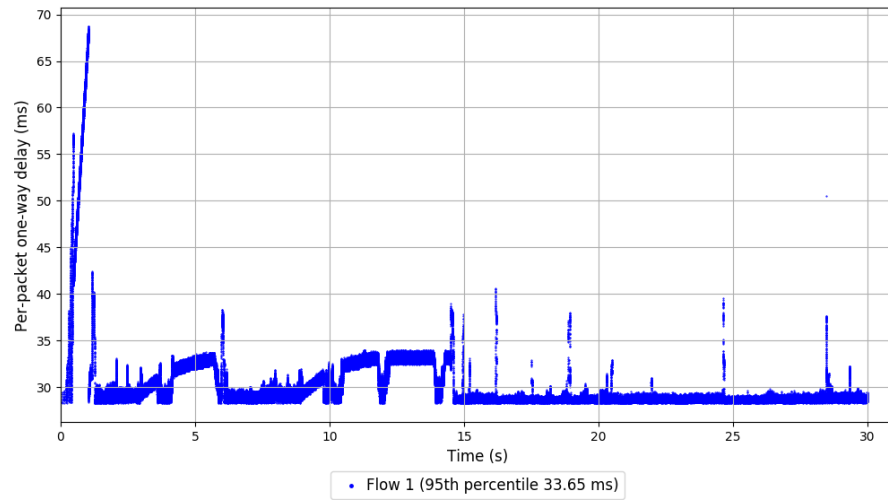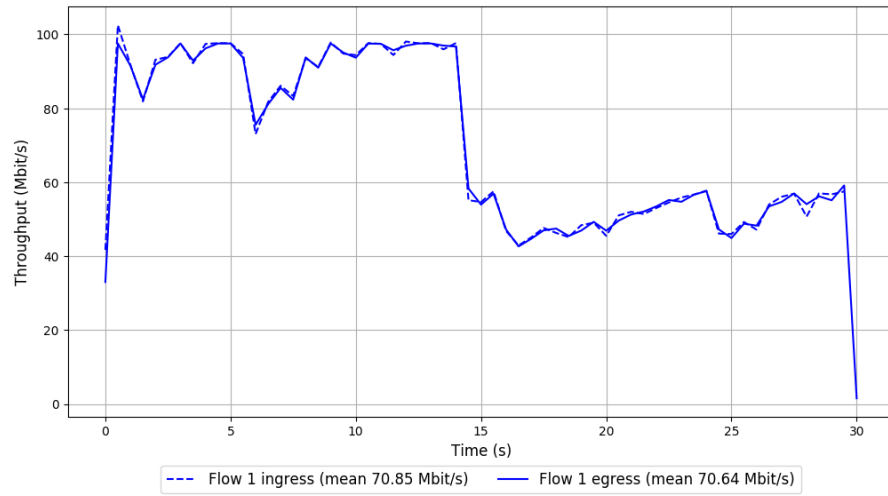Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: 2018-02-02 15:35:09
End at: 2018-02-02 15:35:39
Local clock offset: 0.373 ms
Remote clock offset: -4.492 ms


# Below is generated by plot.py at 2018-02-02 17:25:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.64 Mbit/s
95th percentile per-packet one-way delay: 33.649 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 70.64 Mbit/s
95th percentile per-packet one-way delay: 33.649 ms
Loss rate: 0.30%
```

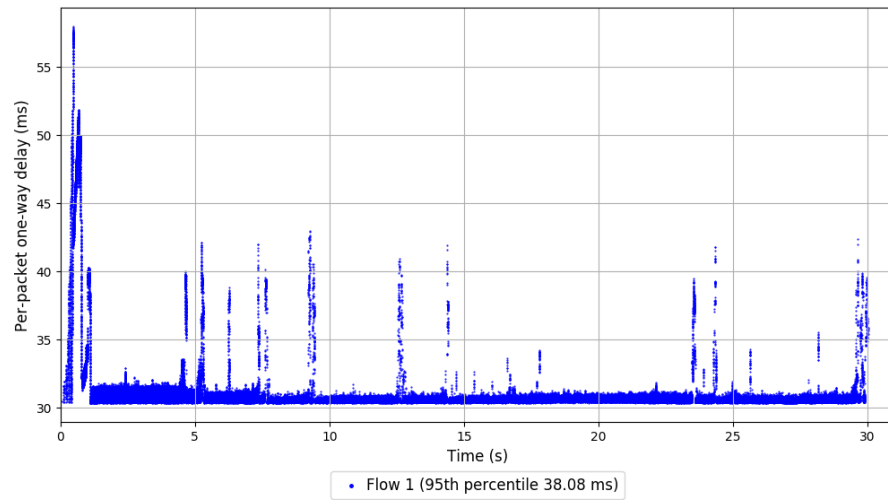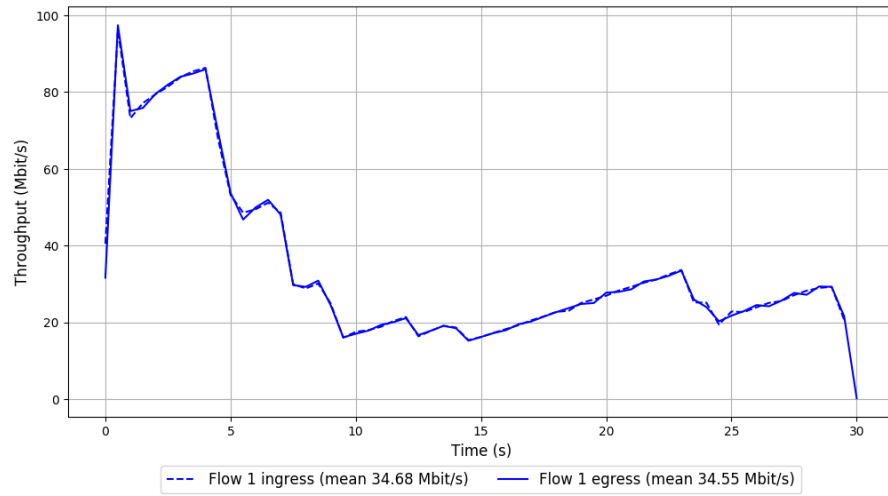Run 7: Report of TCP Cubic — Data Link

```
Run 8: Statistics of TCP Cubic

Start at: 2018-02-02 16:00:25
End at: 2018-02-02 16:00:55
Local clock offset: 0.018 ms
Remote clock offset: -1.916 ms


# Below is generated by plot.py at 2018-02-02 17:25:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 38.084 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 38.084 ms
Loss rate: 0.34%
```

Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 34.68 Mbit/s) — Flow 1 egress (mean 34.55 Mbit/s)
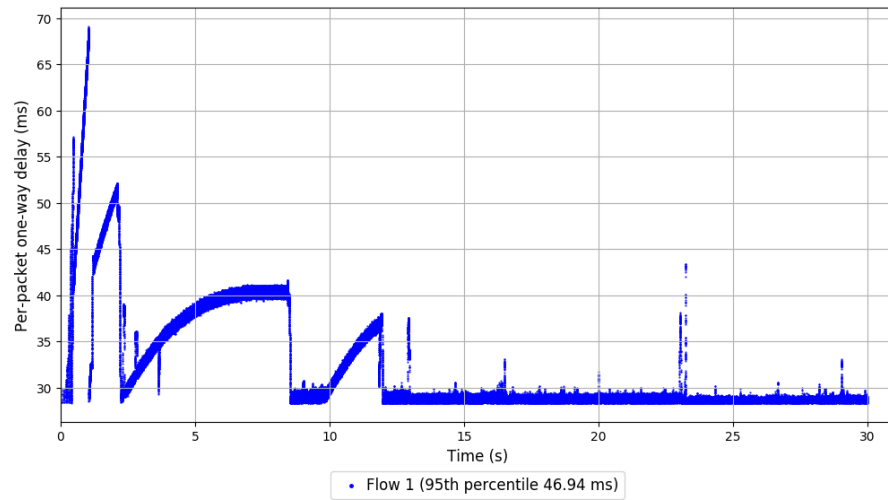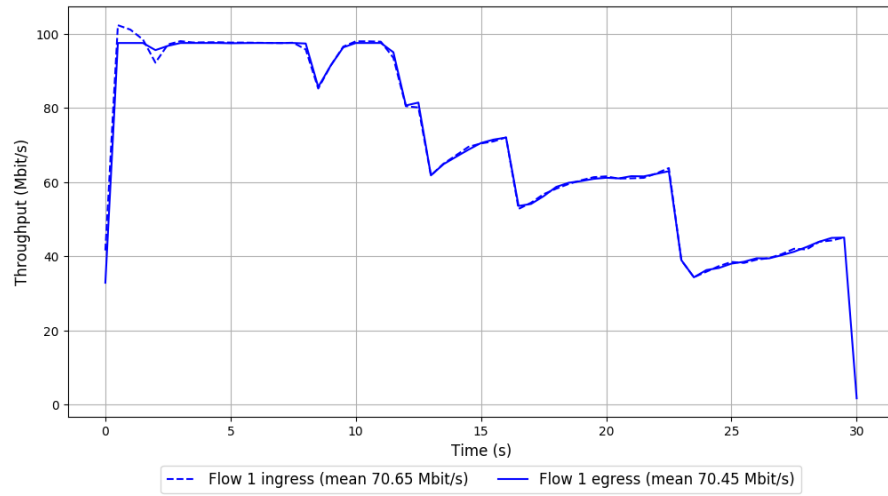

Flow 1 (95th percentile 38.08 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2018-02-02 16:24:21
End at: 2018-02-02 16:24:51
Local clock offset: -0.049 ms
Remote clock offset: -5.091 ms


# Below is generated by plot.py at 2018-02-02 17:26:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.45 Mbit/s
95th percentile per-packet one-way delay: 46.935 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 70.45 Mbit/s
95th percentile per-packet one-way delay: 46.935 ms
Loss rate: 0.28%
```

Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 70.65 Mbit/s)   Flow 1 egress (mean 70.45 Mbit/s)

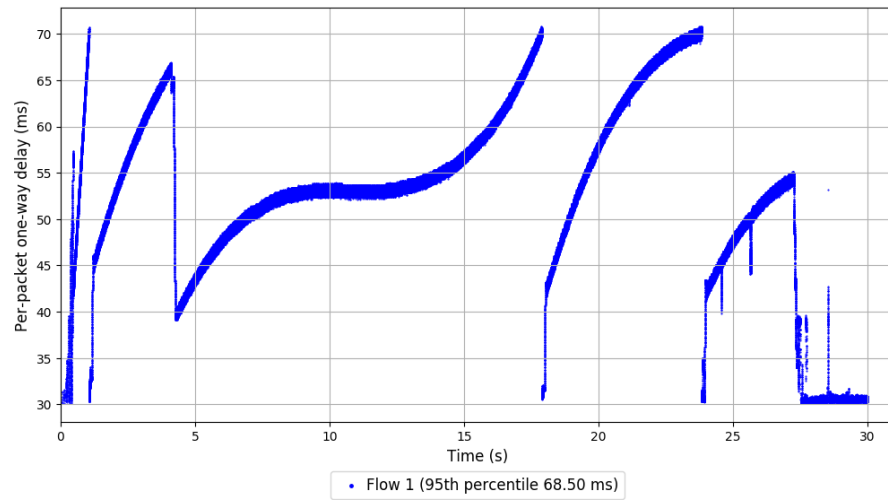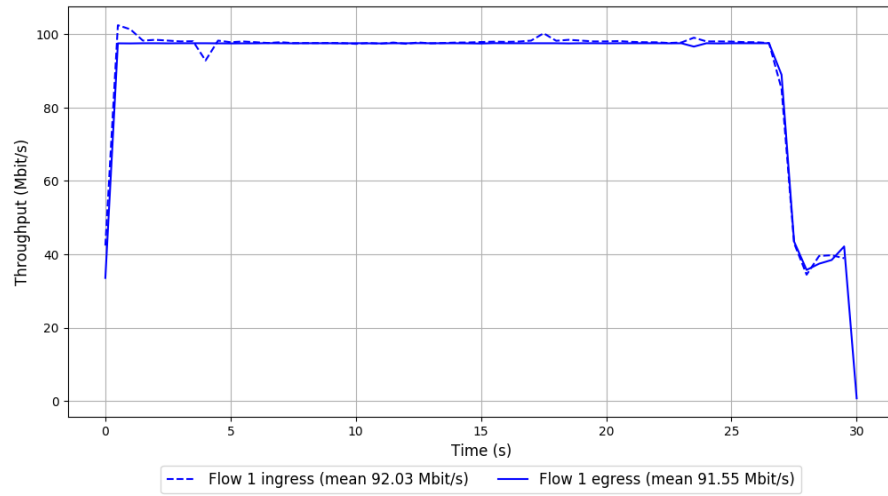

• Flow 1 (95th percentile 46.94 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-02-02 16:48:26
End at: 2018-02-02 16:48:57
Local clock offset: -0.186 ms
Remote clock offset: -2.987 ms


# Below is generated by plot.py at 2018-02-02 17:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 68.498 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 91.55 Mbit/s
95th percentile per-packet one-way delay: 68.498 ms
Loss rate: 0.51%
```

Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 92.03 Mbit/s)   Flow 1 egress (mean 91.55 Mbit/s)
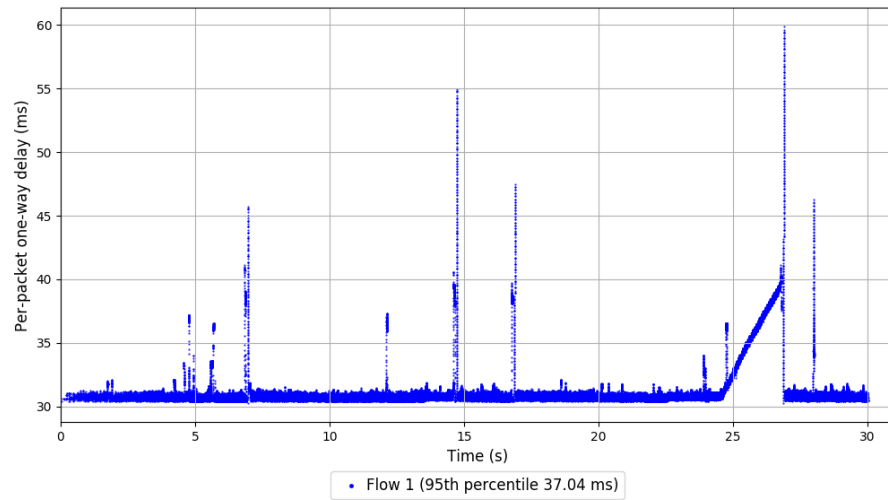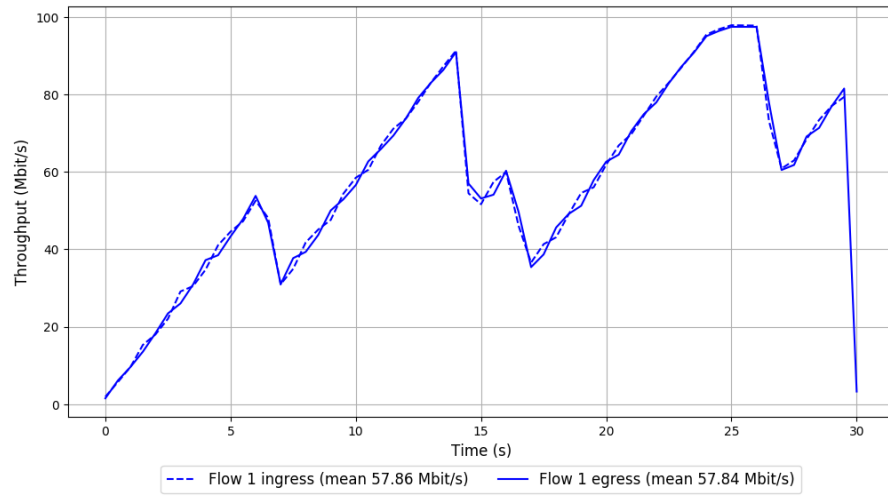

Flow 1 (95th percentile 68.50 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2018-02-02 13:10:30
End at: 2018-02-02 13:11:00
Local clock offset: 1.193 ms
Remote clock offset: 0.394 ms


# Below is generated by plot.py at 2018-02-02 17:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.84 Mbit/s
95th percentile per-packet one-way delay: 37.036 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 57.84 Mbit/s
95th percentile per-packet one-way delay: 37.036 ms
Loss rate: 0.04%
```

Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 57.86 Mbit/s) --- Flow 1 egress (mean 57.84 Mbit/s)

• Flow 1 (95th percentile 37.04 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2018-02-02 13:34:35
End at: 2018-02-02 13:35:05
Local clock offset: 0.962 ms
Remote clock offset: -1.02 ms


# Below is generated by plot.py at 2018-02-02 17:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.75 Mbit/s
95th percentile per-packet one-way delay: 33.418 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 52.75 Mbit/s
95th percentile per-packet one-way delay: 33.418 ms
Loss rate: 0.07%
```
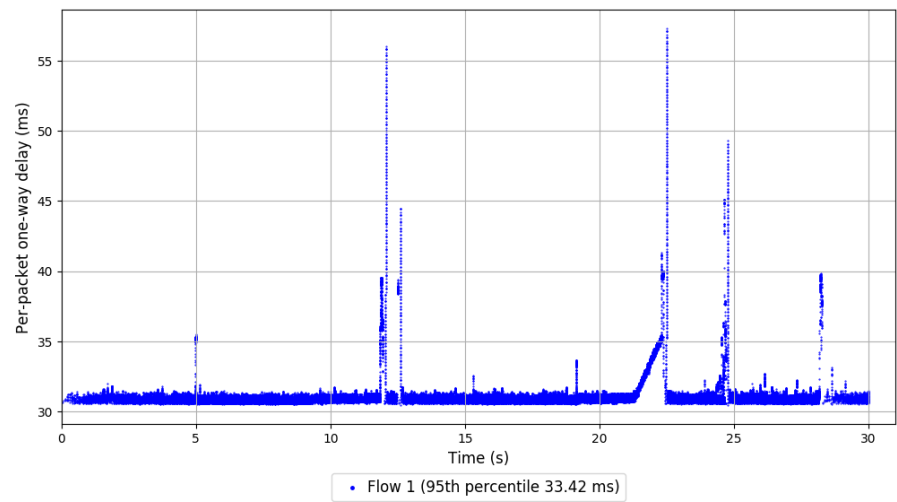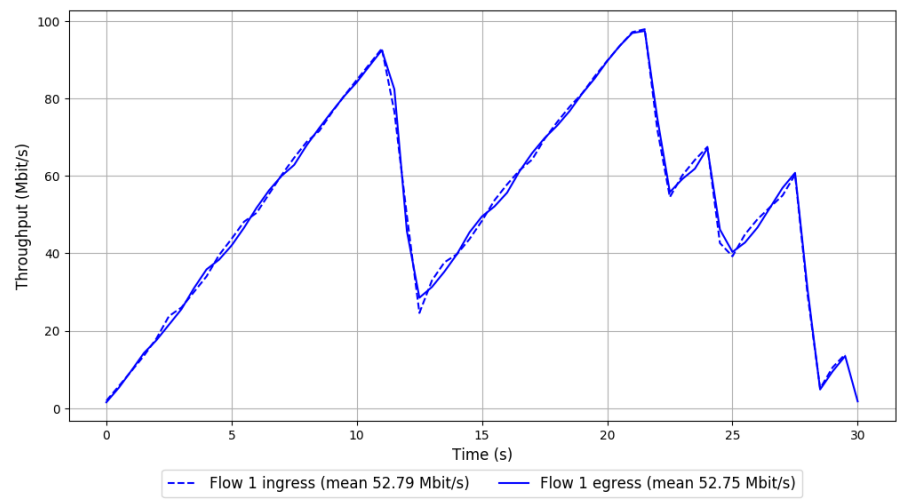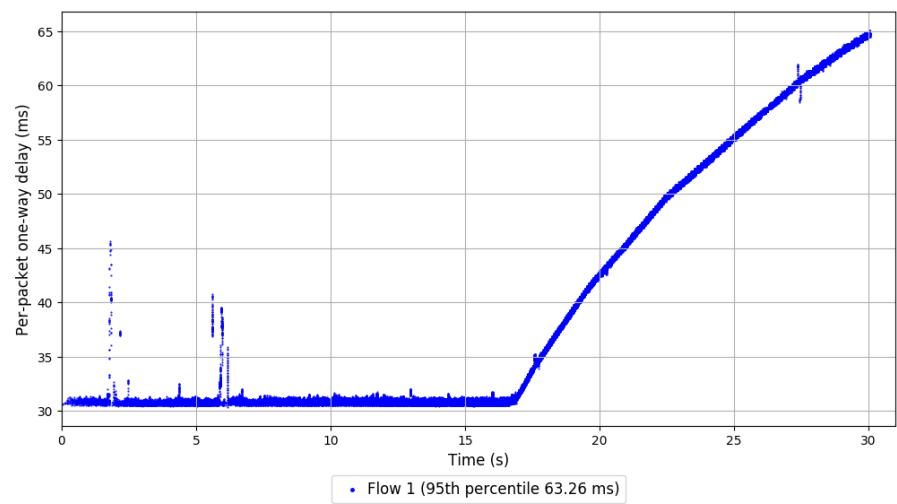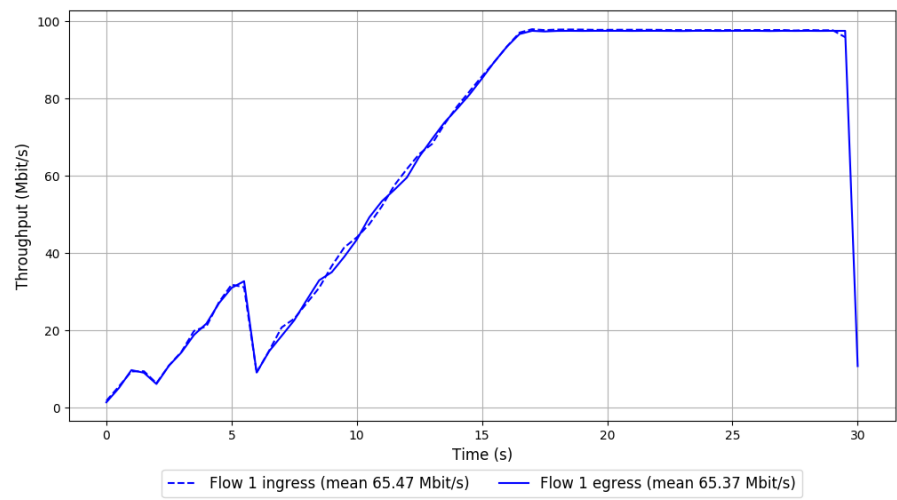
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2018-02-02 13:59:03
End at: 2018-02-02 13:59:33
Local clock offset: 1.181 ms
Remote clock offset: -0.787 ms


# Below is generated by plot.py at 2018-02-02 17:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.37 Mbit/s
95th percentile per-packet one-way delay: 63.264 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 65.37 Mbit/s
95th percentile per-packet one-way delay: 63.264 ms
Loss rate: 0.03%
```

Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 65.47 Mbit/s)   Flow 1 egress (mean 65.37 Mbit/s)
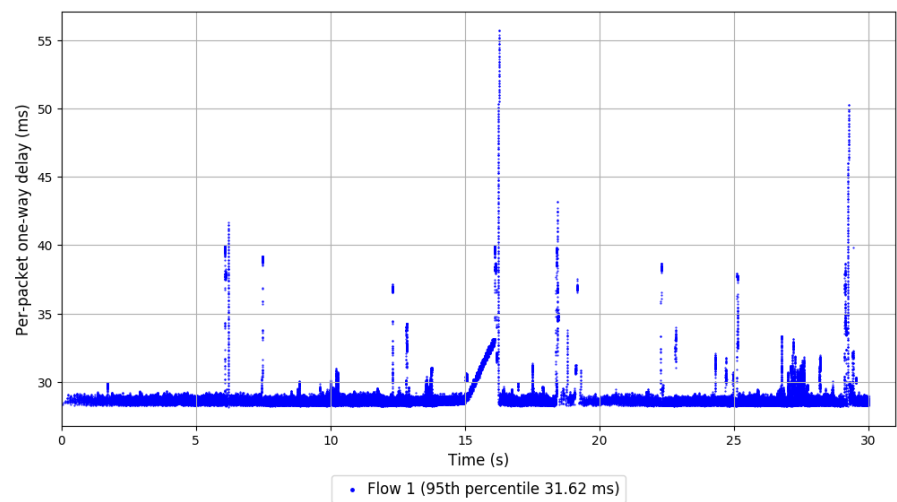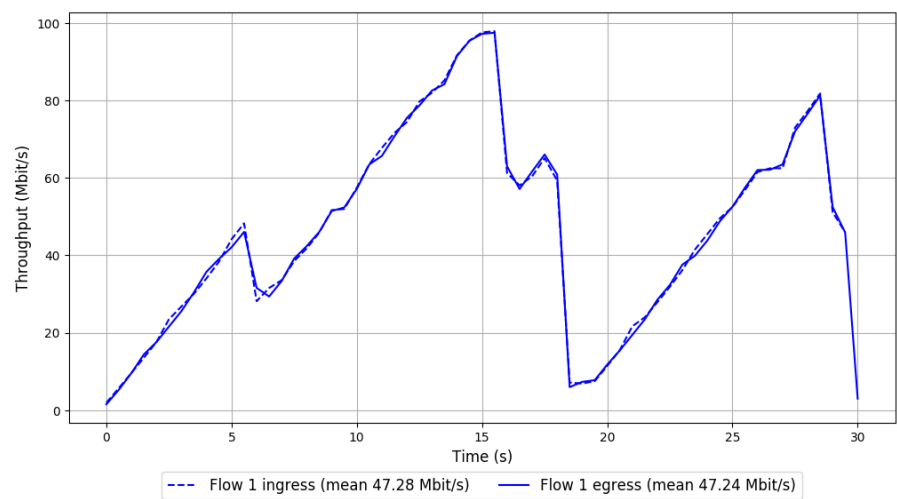

Flow 1 (95th percentile 63.26 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2018-02-02 14:23:17
End at: 2018-02-02 14:23:48
Local clock offset: 1.058 ms
Remote clock offset: -3.303 ms


# Below is generated by plot.py at 2018-02-02 17:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.24 Mbit/s
95th percentile per-packet one-way delay: 31.620 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 47.24 Mbit/s
95th percentile per-packet one-way delay: 31.620 ms
Loss rate: 0.10%
```

Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 47.28 Mbit/s) --- Flow 1 egress (mean 47.24 Mbit/s)
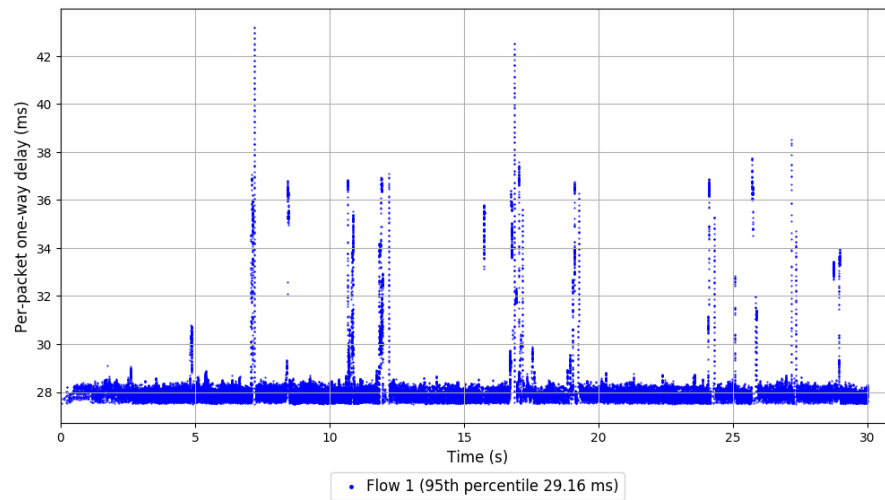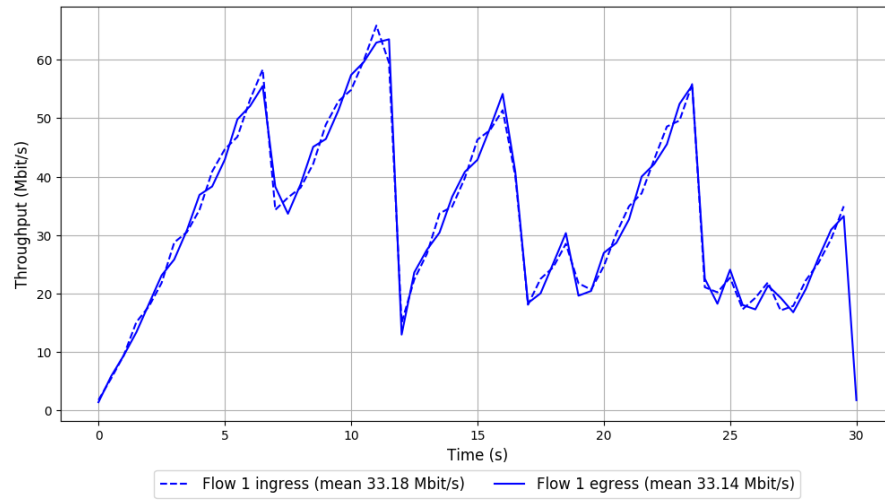

Flow 1 (95th percentile 31.62 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2018-02-02 14:48:05
End at: 2018-02-02 14:48:35
Local clock offset: 0.819 ms
Remote clock offset: -3.801 ms

# Below is generated by plot.py at 2018-02-02 17:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.14 Mbit/s
95th percentile per-packet one-way delay: 29.159 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 33.14 Mbit/s
95th percentile per-packet one-way delay: 29.159 ms
Loss rate: 0.11%
```
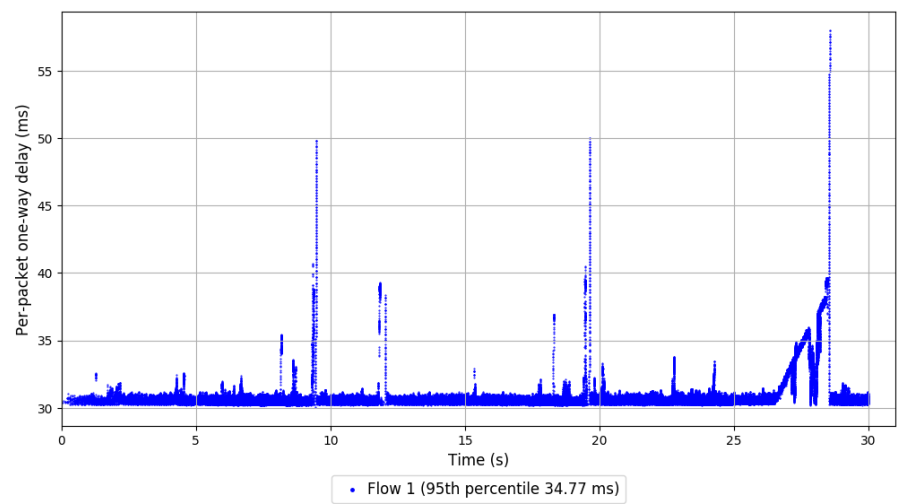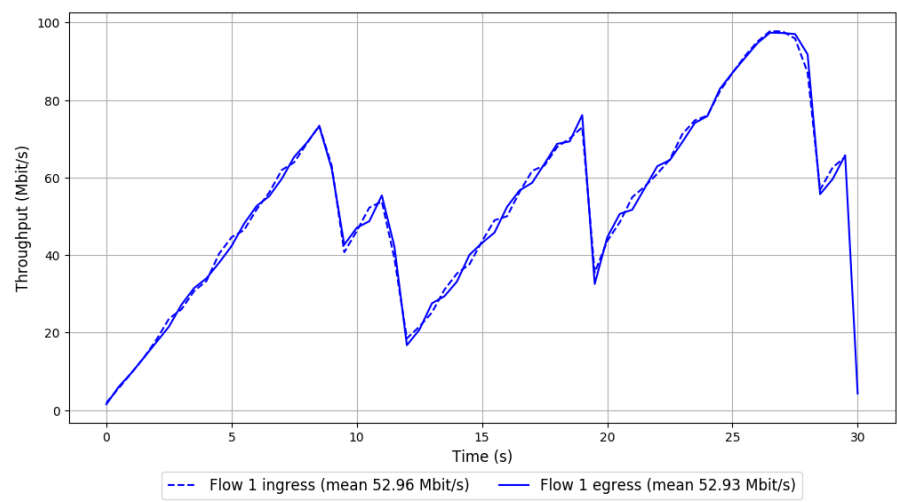
Run 5: Report of LEDBAT — Data Link

```
Run 6: Statistics of LEDBAT

Start at: 2018-02-02 15:12:27
End at: 2018-02-02 15:12:57
Local clock offset: 0.547 ms
Remote clock offset: -1.451 ms


# Below is generated by plot.py at 2018-02-02 17:26:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.93 Mbit/s
95th percentile per-packet one-way delay: 34.773 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 52.93 Mbit/s
95th percentile per-packet one-way delay: 34.773 ms
Loss rate: 0.05%
```
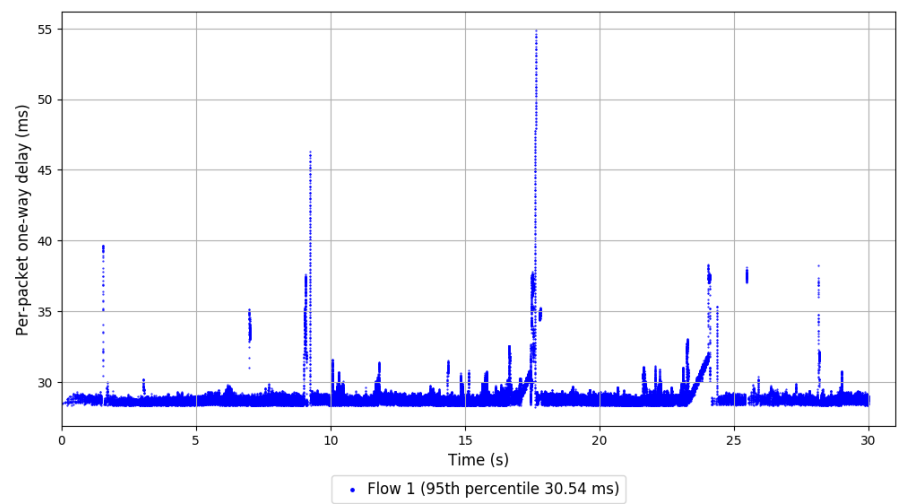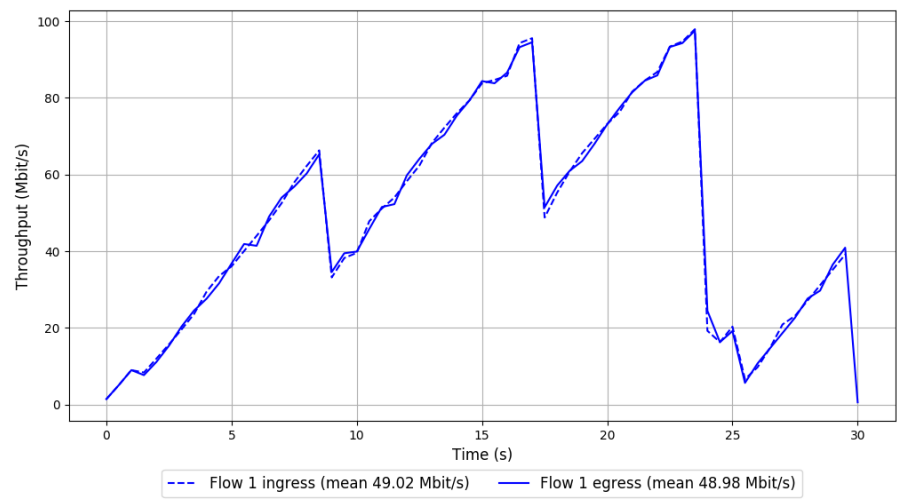
Run 6: Report of LEDBAT — Data Link

```
Run 7: Statistics of LEDBAT

Start at: 2018-02-02 15:37:50
End at: 2018-02-02 15:38:20
Local clock offset: 0.343 ms
Remote clock offset: -4.469 ms


# Below is generated by plot.py at 2018-02-02 17:26:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.98 Mbit/s
95th percentile per-packet one-way delay: 30.538 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 48.98 Mbit/s
95th percentile per-packet one-way delay: 30.538 ms
Loss rate: 0.09%
```

Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 49.02 Mbit/s)　　Flow 1 egress (mean 48.98 Mbit/s)

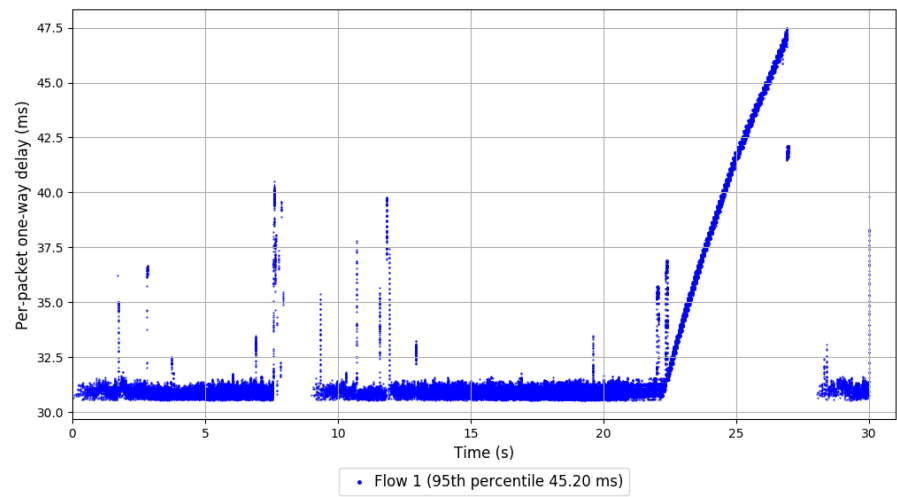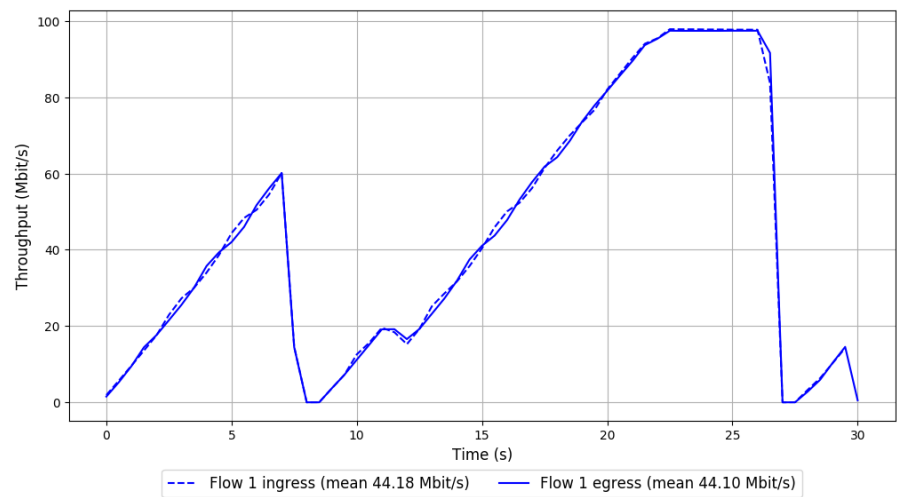

• Flow 1 (95th percentile 30.54 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2018-02-02 16:02:59
End at: 2018-02-02 16:03:29
Local clock offset: -0.02 ms
Remote clock offset: -2.416 ms


# Below is generated by plot.py at 2018-02-02 17:26:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.10 Mbit/s
95th percentile per-packet one-way delay: 45.197 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 44.10 Mbit/s
95th percentile per-packet one-way delay: 45.197 ms
Loss rate: 0.15%
```

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 44.18 Mbit/s)   Flow 1 egress (mean 44.10 Mbit/s)
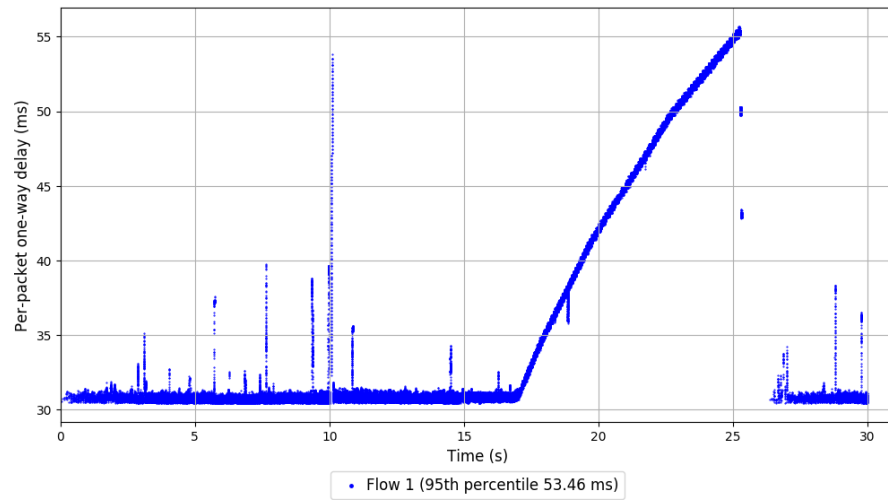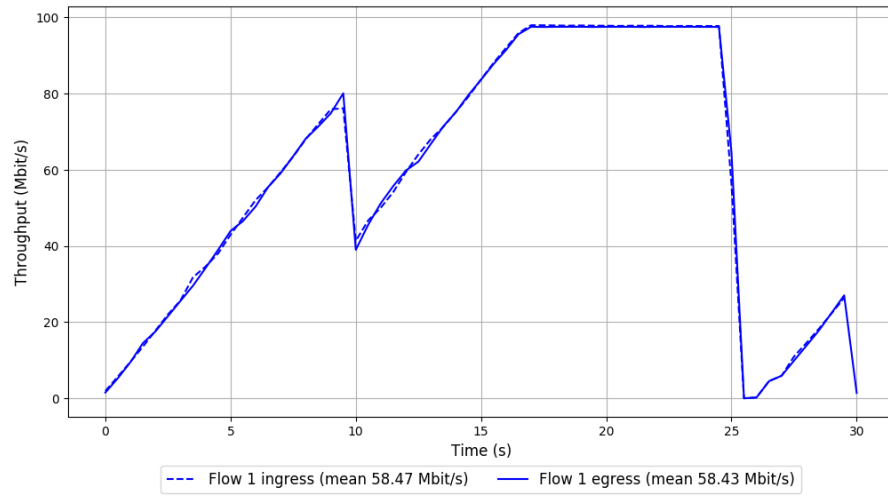

Flow 1 (95th percentile 45.20 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2018-02-02 16:26:57
End at: 2018-02-02 16:27:27
Local clock offset: -0.086 ms
Remote clock offset: -2.918 ms


# Below is generated by plot.py at 2018-02-02 17:26:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 53.457 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 53.457 ms
Loss rate: 0.07%
```

Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 58.47 Mbit/s) --- Flow 1 egress (mean 58.43 Mbit/s)
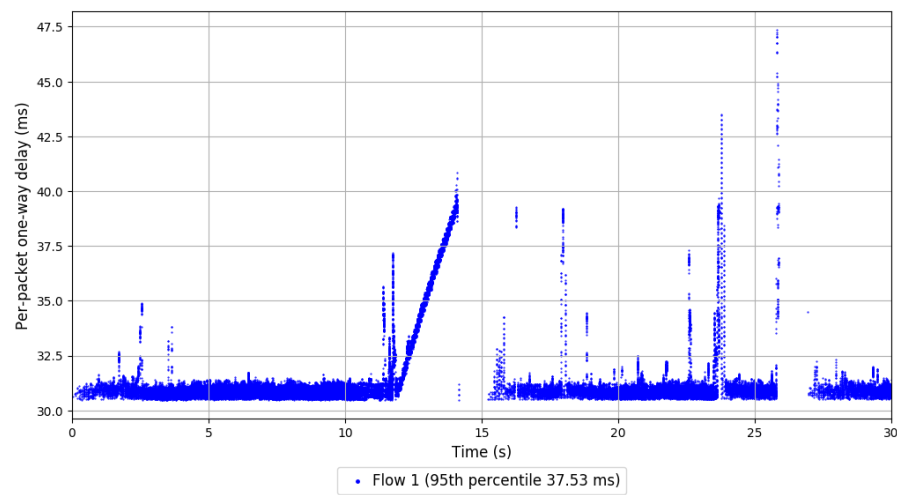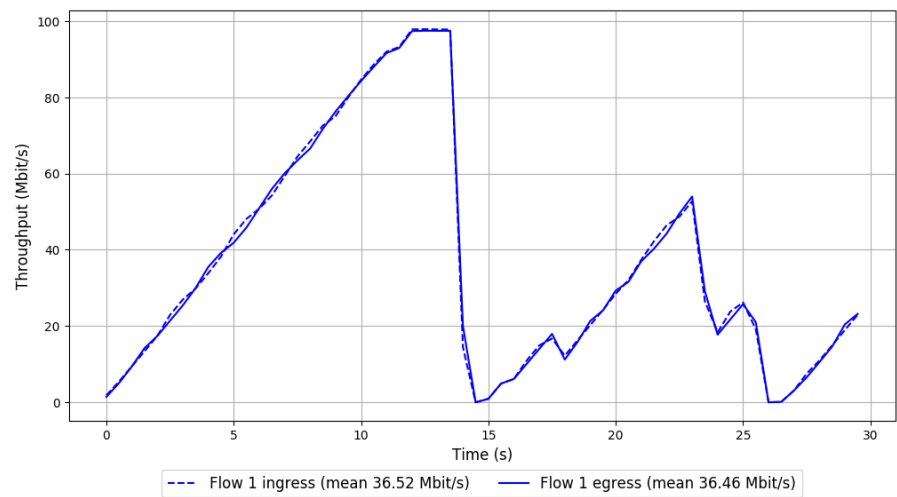

Flow 1 (95th percentile 53.46 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2018-02-02 16:51:03
End at: 2018-02-02 16:51:33
Local clock offset: -0.198 ms
Remote clock offset: -3.468 ms

# Below is generated by plot.py at 2018-02-02 17:26:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.46 Mbit/s
95th percentile per-packet one-way delay: 37.530 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 36.46 Mbit/s
95th percentile per-packet one-way delay: 37.530 ms
Loss rate: 0.17%
```
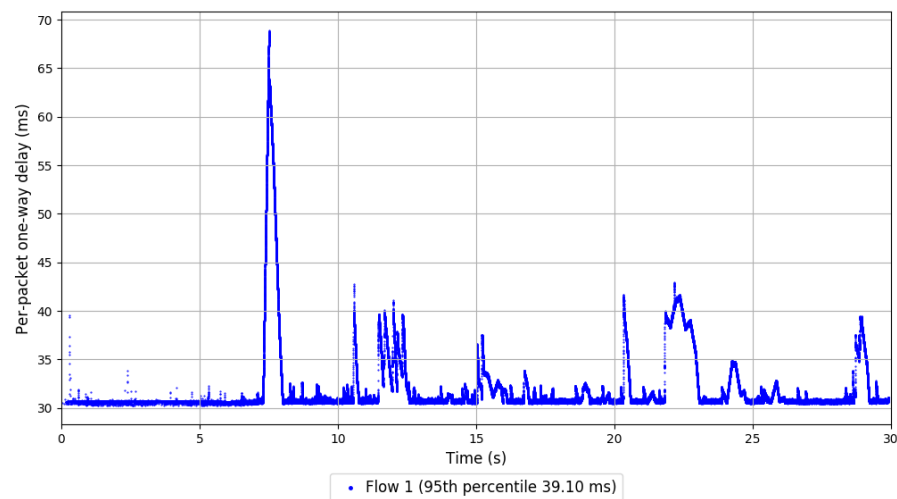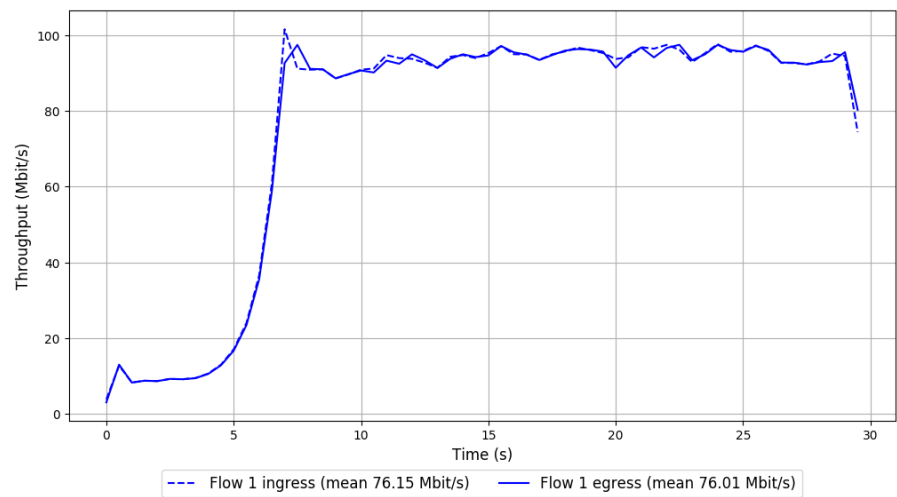
Run 10: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC

Start at: 2018-02-02 12:59:56
End at: 2018-02-02 13:00:26
Local clock offset: 1.063 ms
Remote clock offset: 0.25 ms


# Below is generated by plot.py at 2018-02-02 17:27:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.01 Mbit/s
95th percentile per-packet one-way delay: 39.098 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 76.01 Mbit/s
95th percentile per-packet one-way delay: 39.098 ms
Loss rate: 0.18%
```
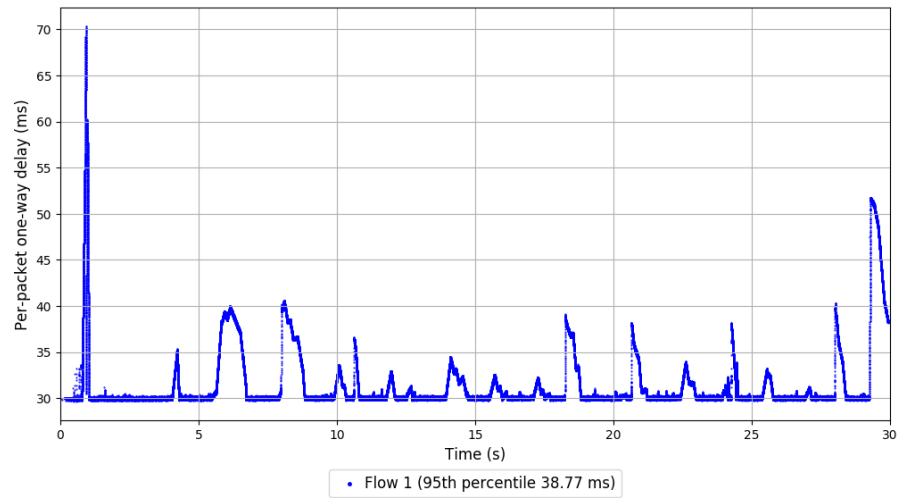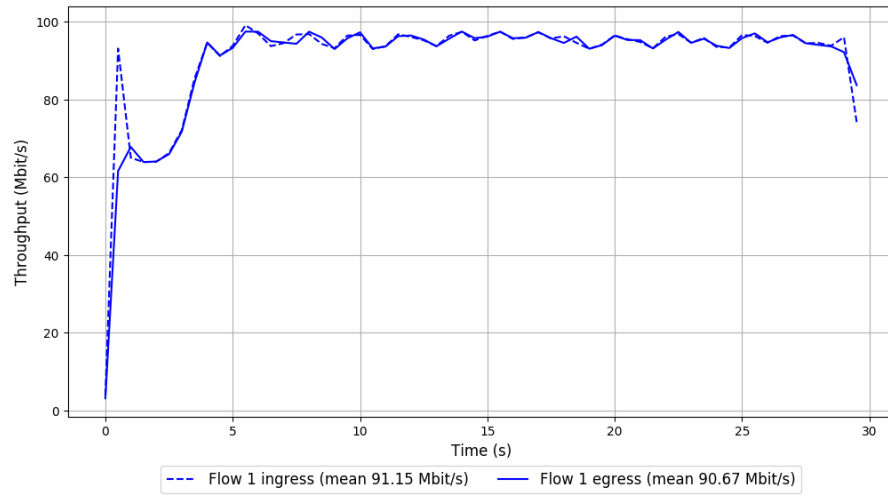
Run 1: Report of PCC — Data Link

```
Run 2: Statistics of PCC

Start at: 2018-02-02 13:23:59
End at: 2018-02-02 13:24:29
Local clock offset: 1.074 ms
Remote clock offset: -0.933 ms


# Below is generated by plot.py at 2018-02-02 17:27:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 38.772 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 90.67 Mbit/s
95th percentile per-packet one-way delay: 38.772 ms
Loss rate: 0.50%
```

Run 2: Report of PCC — Data Link

```
Run 3: Statistics of PCC

Start at: 2018-02-02 13:48:22
End at: 2018-02-02 13:48:52
Local clock offset: 1.079 ms
Remote clock offset: -0.5 ms


# Below is generated by plot.py at 2018-02-02 17:27:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.01 Mbit/s
95th percentile per-packet one-way delay: 38.721 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 88.01 Mbit/s
95th percentile per-packet one-way delay: 38.721 ms
Loss rate: 0.62%
```
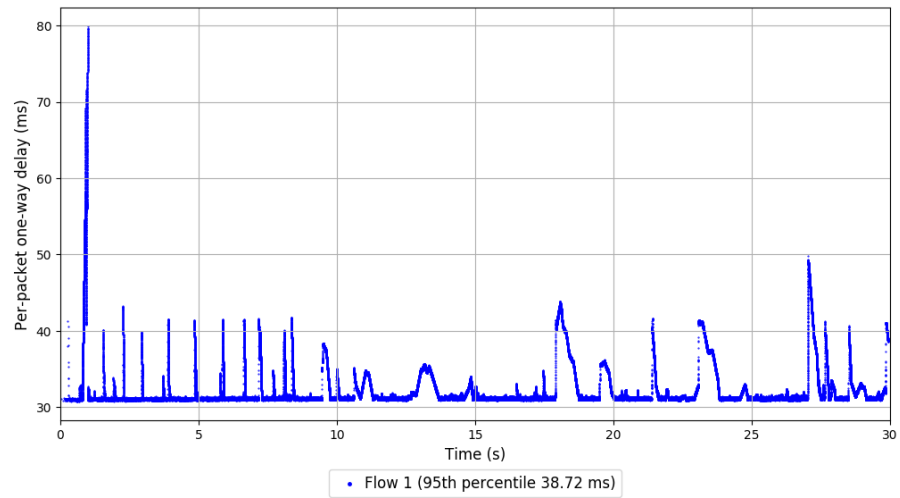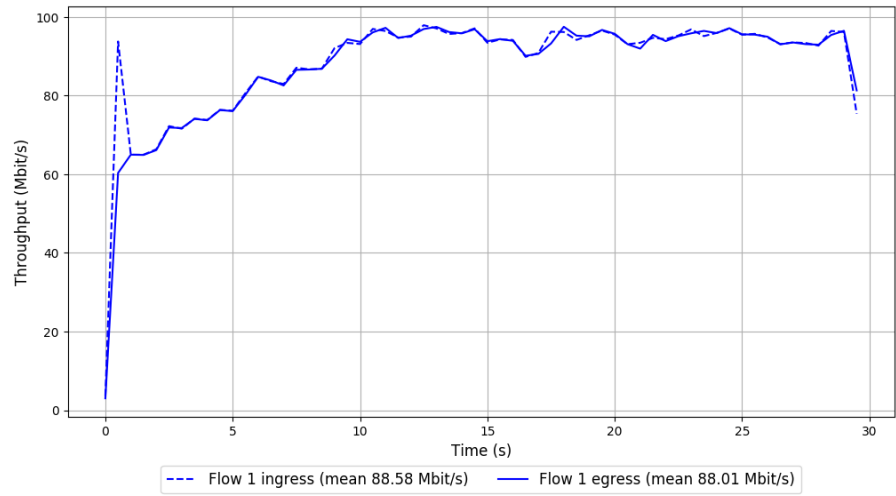
Run 3: Report of PCC — Data Link

Flow 1 ingress (mean 88.58 Mbit/s)   Flow 1 egress (mean 88.01 Mbit/s)
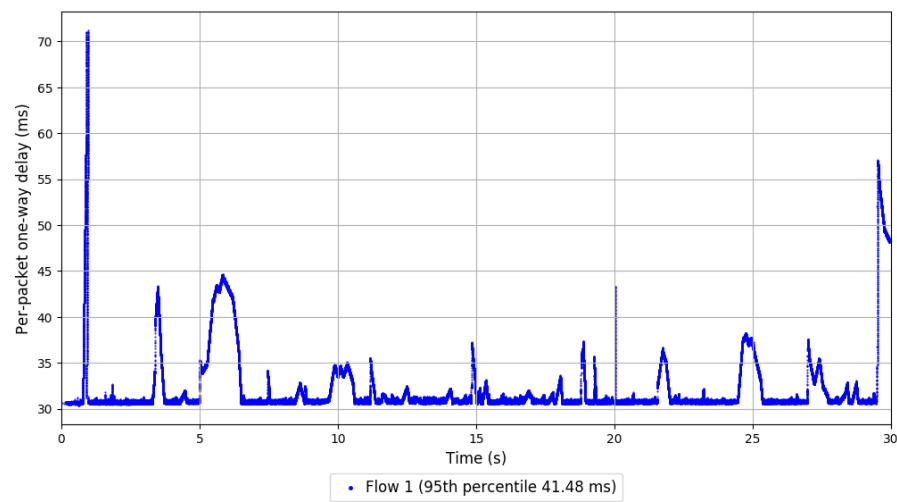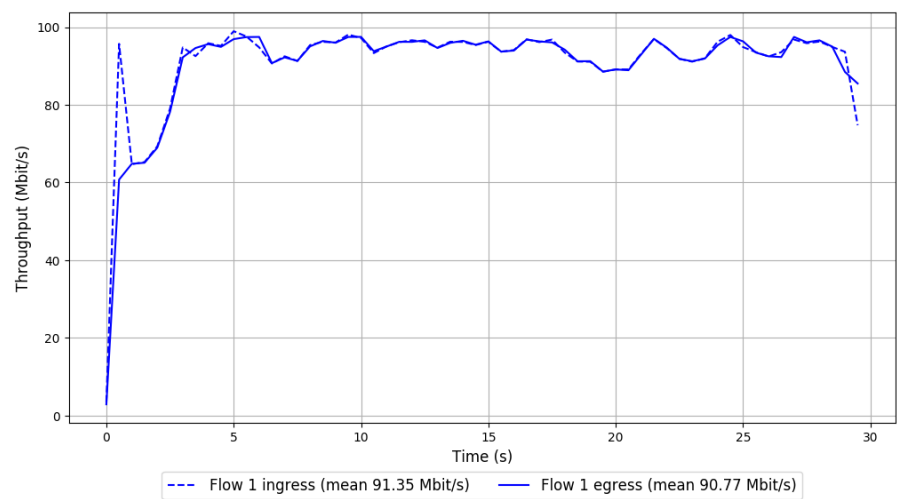

Flow 1 (95th percentile 38.72 ms)

```
Run 4: Statistics of PCC

Start at: 2018-02-02 14:12:46
End at: 2018-02-02 14:13:16
Local clock offset: 1.076 ms
Remote clock offset: -0.759 ms


# Below is generated by plot.py at 2018-02-02 17:27:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 41.483 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 41.483 ms
Loss rate: 0.58%
```

Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 91.35 Mbit/s) ----- Flow 1 egress (mean 90.77 Mbit/s)

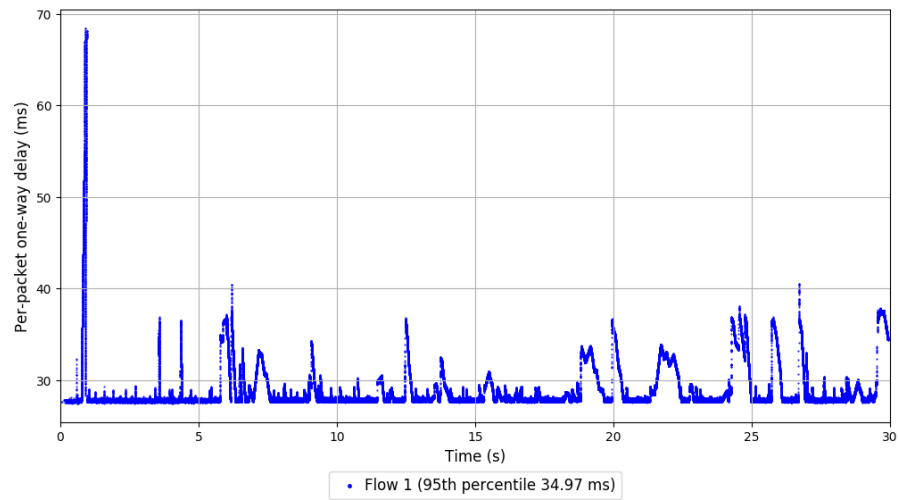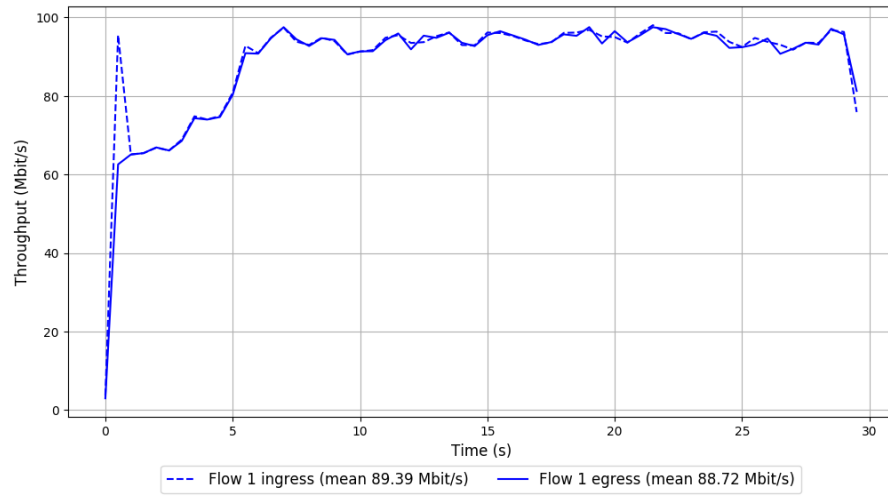• Flow 1 (95th percentile 41.48 ms)

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```
Run 5: Statistics of PCC

Start at: 2018-02-02 14:37:28
End at: 2018-02-02 14:37:58
Local clock offset: 0.948 ms
Remote clock offset: -3.713 ms


# Below is generated by plot.py at 2018-02-02 17:27:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.72 Mbit/s
95th percentile per-packet one-way delay: 34.972 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 88.72 Mbit/s
95th percentile per-packet one-way delay: 34.972 ms
Loss rate: 0.73%
```

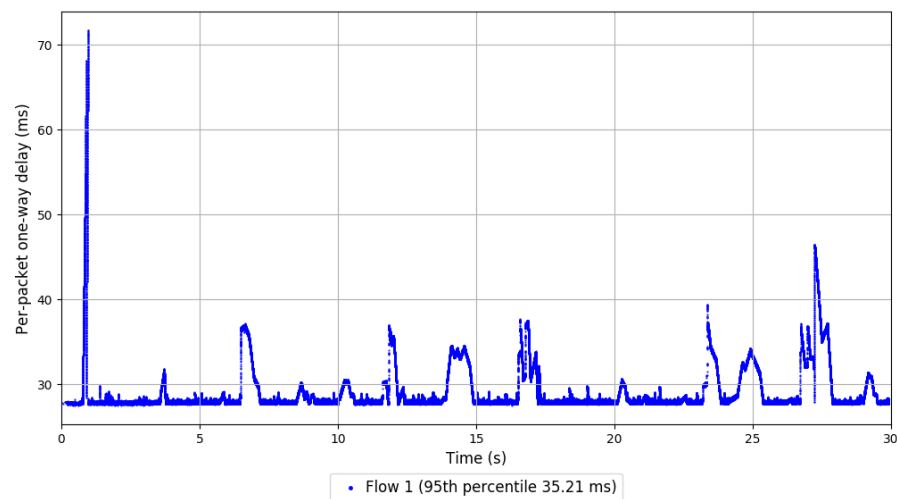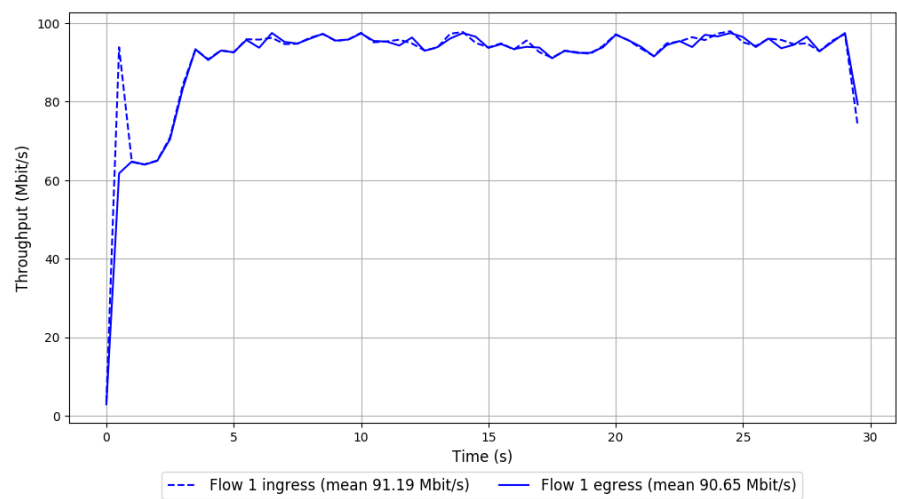Run 5: Report of PCC — Data Link

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```
Run 6: Statistics of PCC

Start at: 2018-02-02 15:01:34
End at: 2018-02-02 15:02:04
Local clock offset: 0.672 ms
Remote clock offset: -3.851 ms


# Below is generated by plot.py at 2018-02-02 17:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 35.208 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 90.65 Mbit/s
95th percentile per-packet one-way delay: 35.208 ms
Loss rate: 0.59%
```

Run 6: Report of PCC — Data Link

Flow 1 ingress (mean 91.19 Mbit/s)   Flow 1 egress (mean 90.65 Mbit/s)

Flow 1 (95th percentile 35.21 ms)

```
Run 7: Statistics of PCC

Start at: 2018-02-02 15:26:30
End at: 2018-02-02 15:27:00
Local clock offset: 0.446 ms
Remote clock offset: -2.14 ms


# Below is generated by plot.py at 2018-02-02 17:28:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.18 Mbit/s
95th percentile per-packet one-way delay: 38.736 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 90.18 Mbit/s
95th percentile per-packet one-way delay: 38.736 ms
Loss rate: 0.63%
```
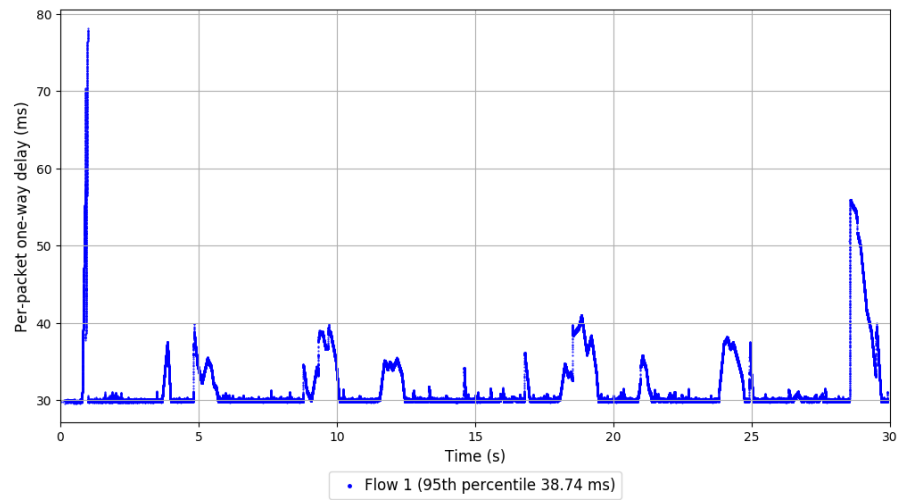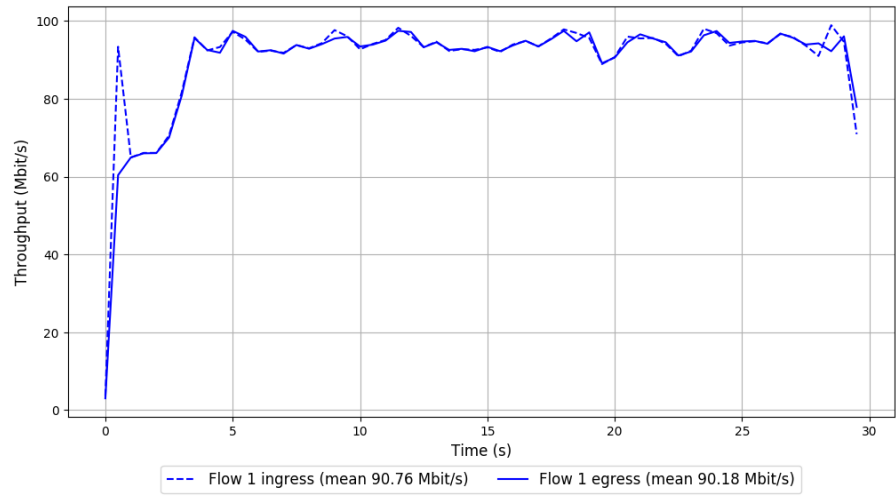
Run 7: Report of PCC — Data Link

Flow 1 ingress (mean 90.76 Mbit/s) — — — Flow 1 egress (mean 90.18 Mbit/s)
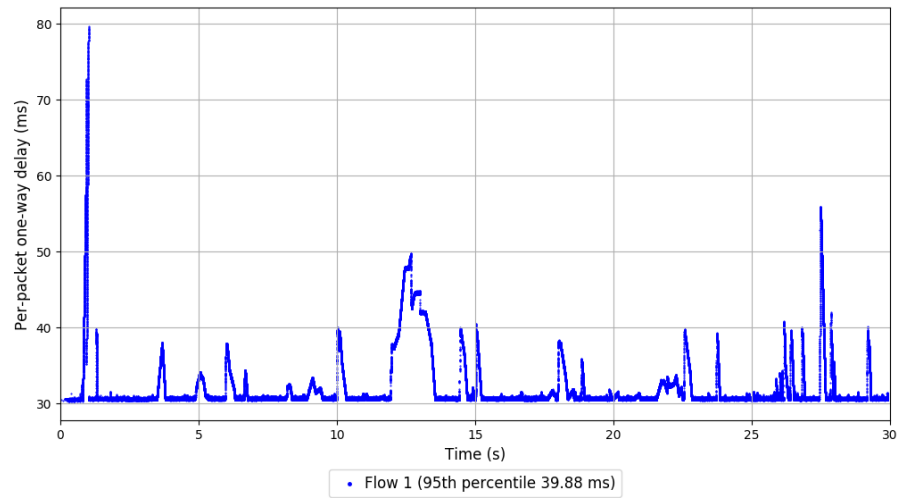
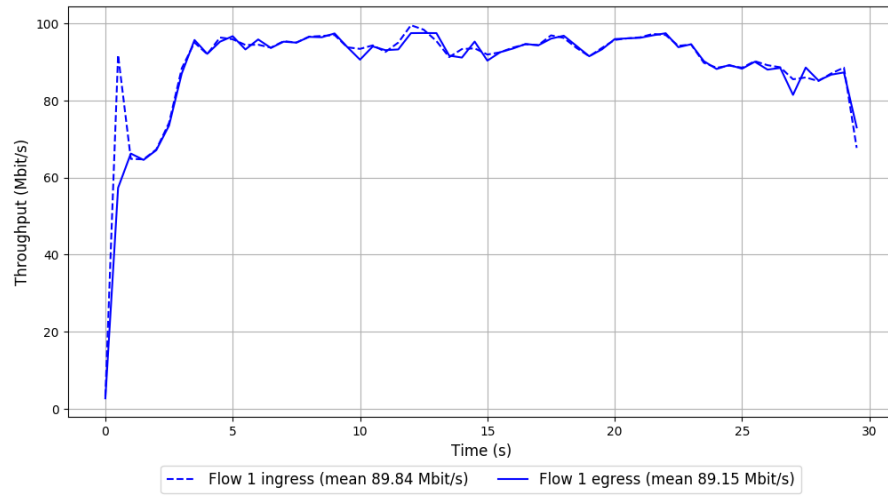

• Flow 1 (95th percentile 38.74 ms)

```
Run 8: Statistics of PCC

Start at: 2018-02-02 15:52:00
End at: 2018-02-02 15:52:30
Local clock offset: 0.12 ms
Remote clock offset: -2.497 ms


# Below is generated by plot.py at 2018-02-02 17:28:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.15 Mbit/s
95th percentile per-packet one-way delay: 39.879 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 89.15 Mbit/s
95th percentile per-packet one-way delay: 39.879 ms
Loss rate: 0.78%
```

Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 89.84 Mbit/s)   Flow 1 egress (mean 89.15 Mbit/s)

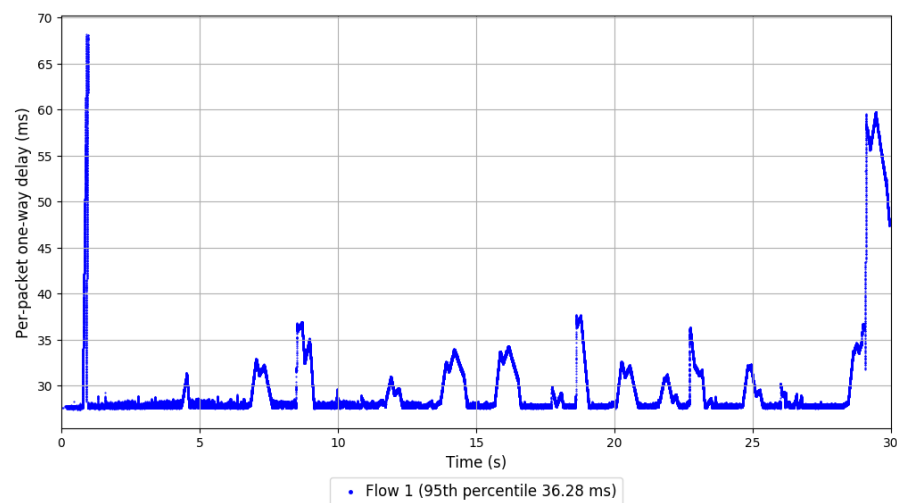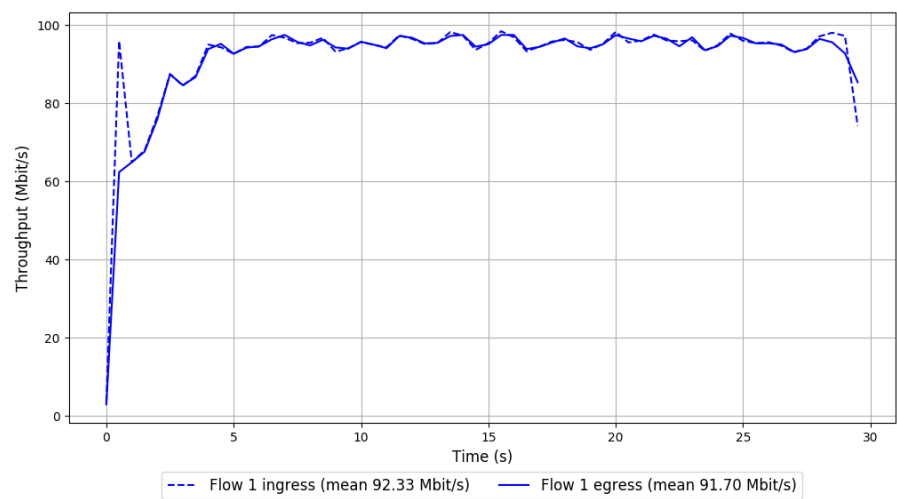

Flow 1 (95th percentile 39.88 ms)

```
Run 9: Statistics of PCC

Start at: 2018-02-02 16:16:21
End at: 2018-02-02 16:16:51
Local clock offset: 0.017 ms
Remote clock offset: -4.889 ms


# Below is generated by plot.py at 2018-02-02 17:28:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 36.277 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 91.70 Mbit/s
95th percentile per-packet one-way delay: 36.277 ms
Loss rate: 0.61%
```
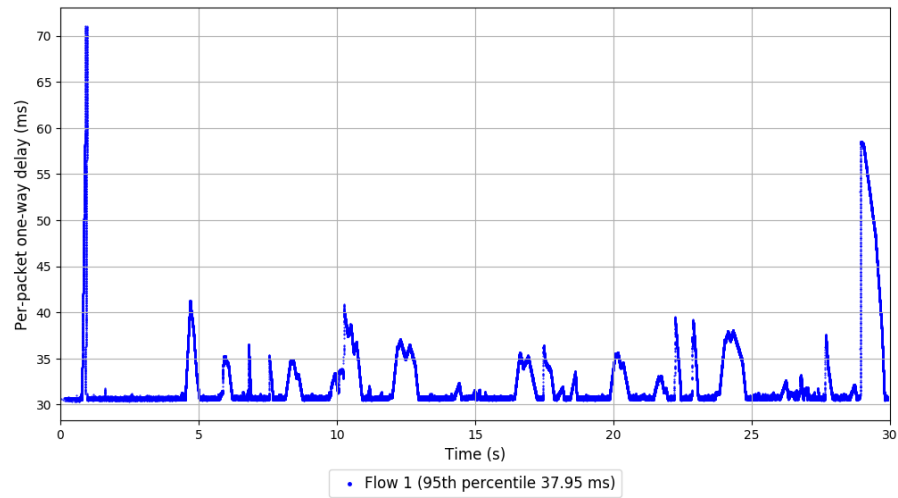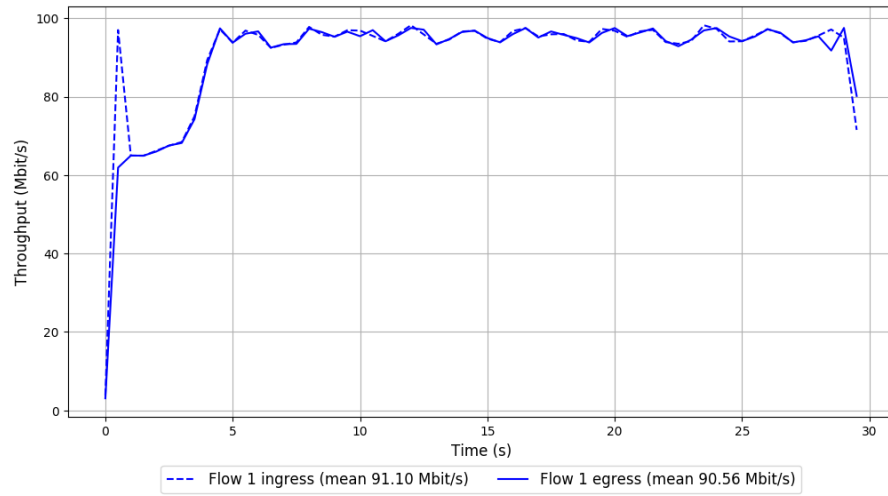
Run 9: Report of PCC — Data Link

```
Run 10: Statistics of PCC

Start at: 2018-02-02 16:40:29
End at: 2018-02-02 16:40:59
Local clock offset: -0.235 ms
Remote clock offset: -3.028 ms


# Below is generated by plot.py at 2018-02-02 17:29:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.56 Mbit/s
95th percentile per-packet one-way delay: 37.947 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 90.56 Mbit/s
95th percentile per-packet one-way delay: 37.947 ms
Loss rate: 0.59%
```

Run 10: Report of PCC — Data Link

Flow 1 ingress (mean 91.10 Mbit/s)　　Flow 1 egress (mean 90.56 Mbit/s)

Flow 1 (95th percentile 37.95 ms)

83

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-02 13:05:14
End at: 2018-02-02 13:05:44
Local clock offset: 1.133 ms
Remote clock offset: 0.188 ms


# Below is generated by plot.py at 2018-02-02 17:29:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.59 Mbit/s
95th percentile per-packet one-way delay: 62.821 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 83.59 Mbit/s
95th percentile per-packet one-way delay: 62.821 ms
Loss rate: 0.93%
```
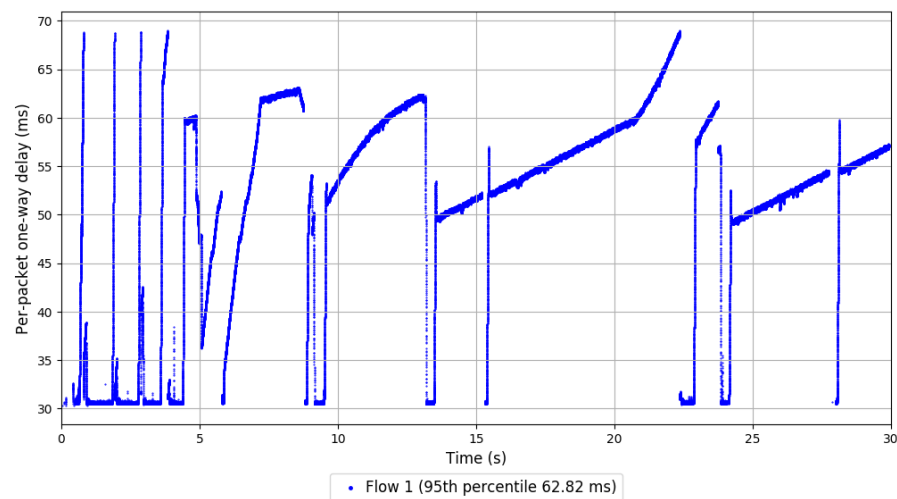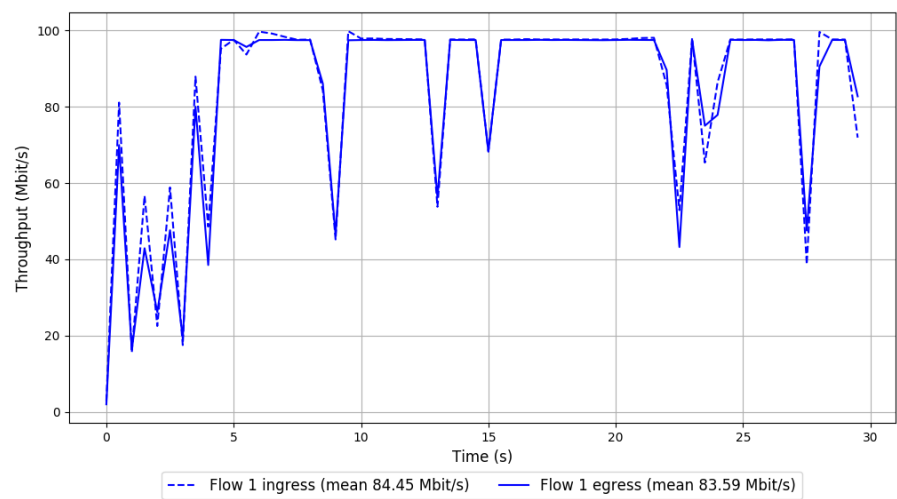
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-02-02 13:29:15
End at: 2018-02-02 13:29:46
Local clock offset: 1.015 ms
Remote clock offset: -0.615 ms


# Below is generated by plot.py at 2018-02-02 17:29:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.99 Mbit/s
95th percentile per-packet one-way delay: 30.633 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 74.99 Mbit/s
95th percentile per-packet one-way delay: 30.633 ms
Loss rate: 0.04%
```
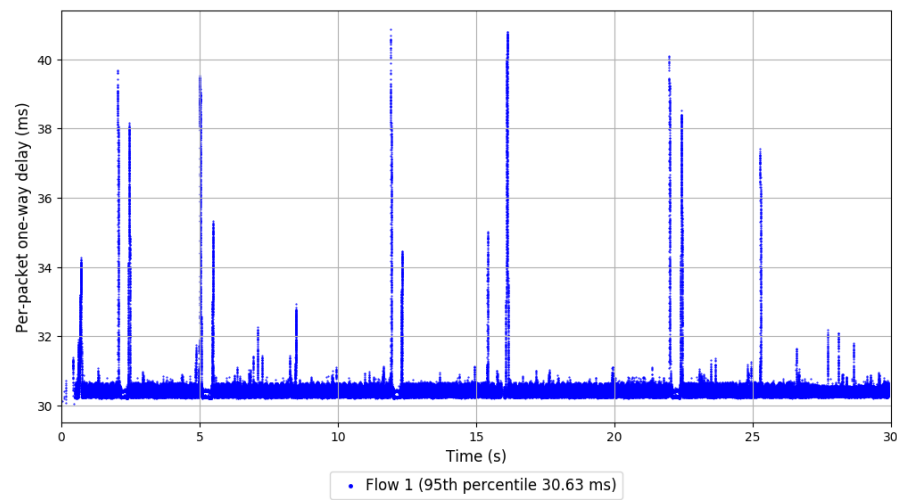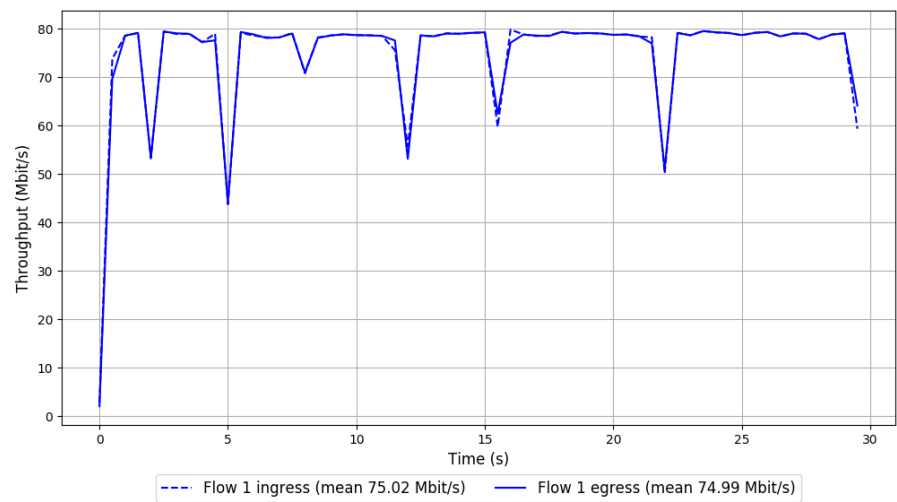
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 75.02 Mbit/s) ---- Flow 1 egress (mean 74.99 Mbit/s) ——

• Flow 1 (95th percentile 30.63 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-02-02 13:53:42
End at: 2018-02-02 13:54:12
Local clock offset: 1.137 ms
Remote clock offset: -0.962 ms


# Below is generated by plot.py at 2018-02-02 17:29:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 61.864 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 61.864 ms
Loss rate: 0.87%
```
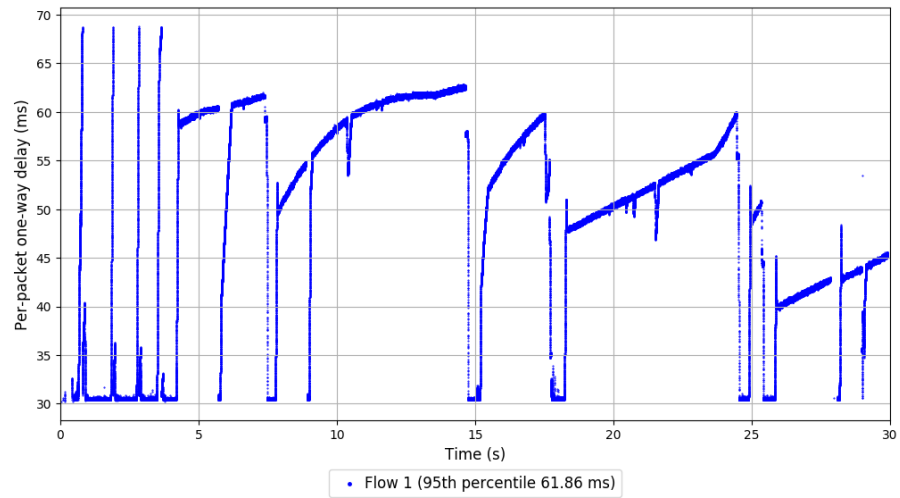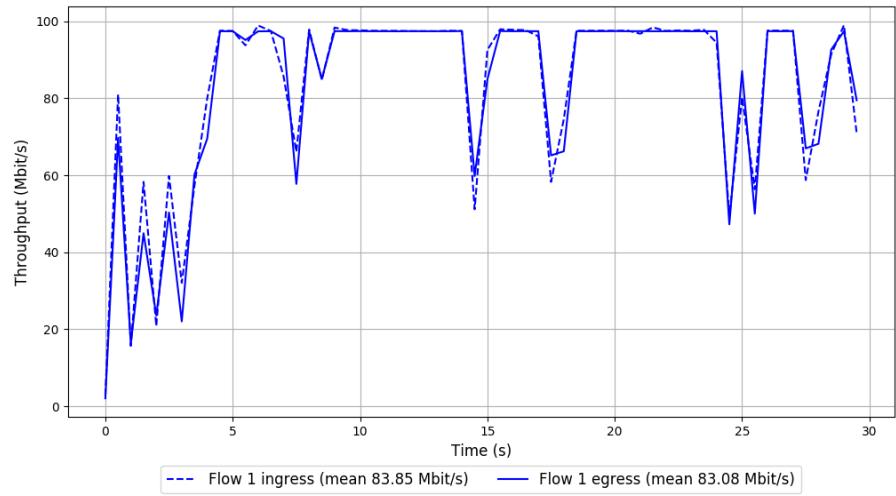
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 83.85 Mbit/s)   Flow 1 egress (mean 83.08 Mbit/s)
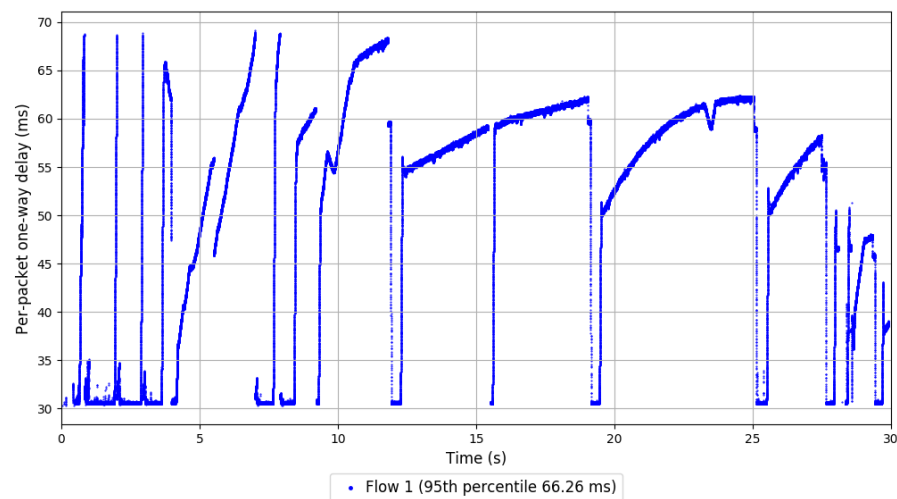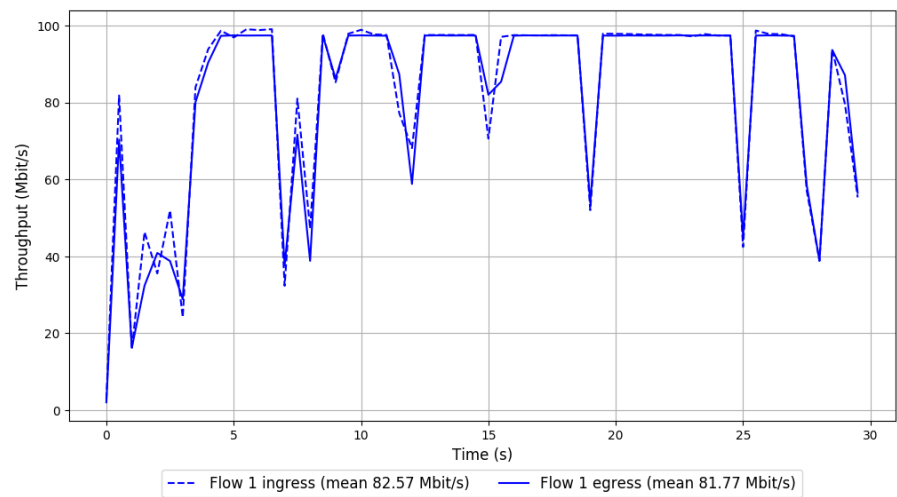

Flow 1 (95th percentile 61.86 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-02-02 14:18:01
End at: 2018-02-02 14:18:31
Local clock offset: 1.023 ms
Remote clock offset: -1.062 ms


# Below is generated by plot.py at 2018-02-02 17:29:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.77 Mbit/s
95th percentile per-packet one-way delay: 66.264 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 81.77 Mbit/s
95th percentile per-packet one-way delay: 66.264 ms
Loss rate: 0.95%
```

Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 82.57 Mbit/s)   Flow 1 egress (mean 81.77 Mbit/s)

• Flow 1 (95th percentile 66.26 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-02-02 14:42:50
End at: 2018-02-02 14:43:20
Local clock offset: 0.909 ms
Remote clock offset: -1.507 ms

# Below is generated by plot.py at 2018-02-02 17:29:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.12 Mbit/s
95th percentile per-packet one-way delay: 30.975 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 69.12 Mbit/s
95th percentile per-packet one-way delay: 30.975 ms
Loss rate: 0.08%
```
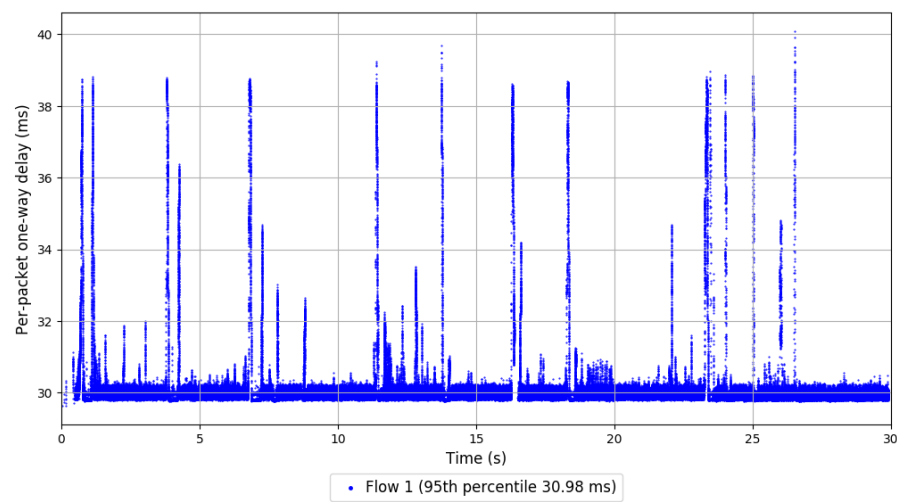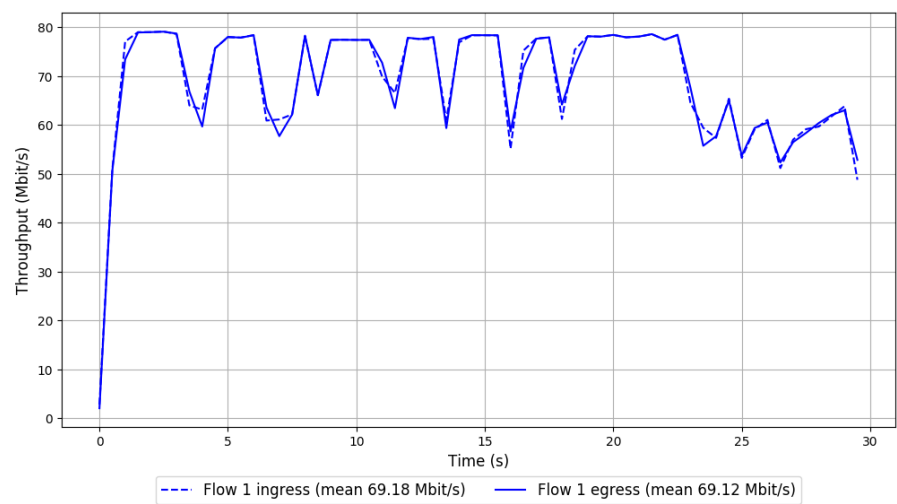
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 69.18 Mbit/s) ----- Flow 1 egress (mean 69.12 Mbit/s)

• Flow 1 (95th percentile 30.98 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-02-02 15:07:02
End at: 2018-02-02 15:07:32
Local clock offset: 0.643 ms
Remote clock offset: -1.787 ms


# Below is generated by plot.py at 2018-02-02 17:29:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.82 Mbit/s
95th percentile per-packet one-way delay: 57.018 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 78.82 Mbit/s
95th percentile per-packet one-way delay: 57.018 ms
Loss rate: 1.06%
```
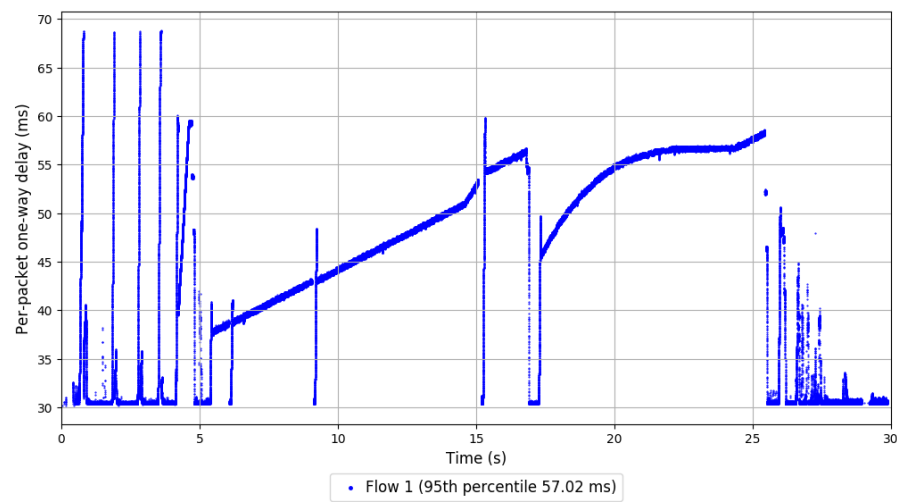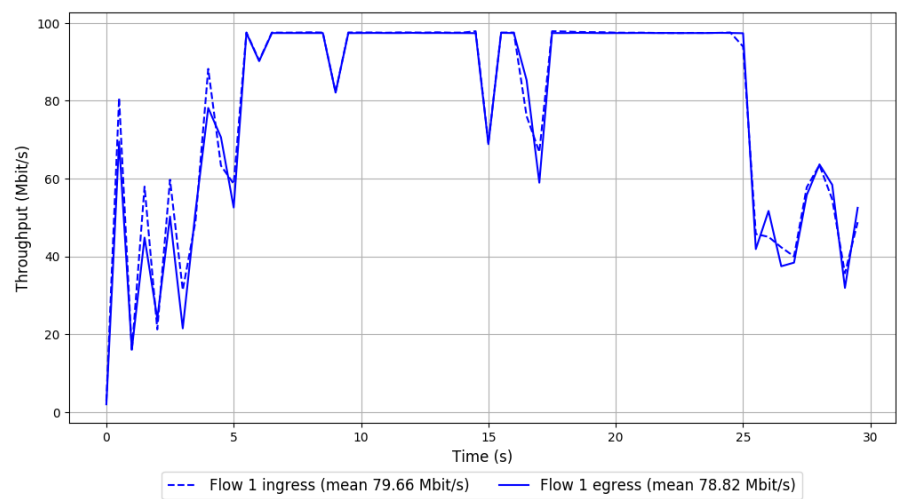
Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 79.66 Mbit/s)   Flow 1 egress (mean 78.82 Mbit/s)

Flow 1 (95th percentile 57.02 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-02-02 15:32:08
End at: 2018-02-02 15:32:39
Local clock offset: 0.395 ms
Remote clock offset: -4.422 ms


# Below is generated by plot.py at 2018-02-02 17:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.56 Mbit/s
95th percentile per-packet one-way delay: 55.573 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 85.56 Mbit/s
95th percentile per-packet one-way delay: 55.573 ms
Loss rate: 0.43%
```
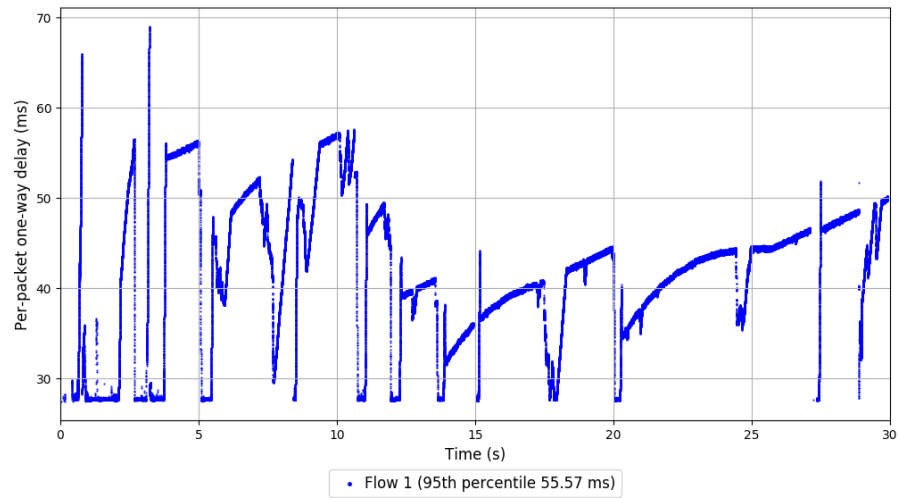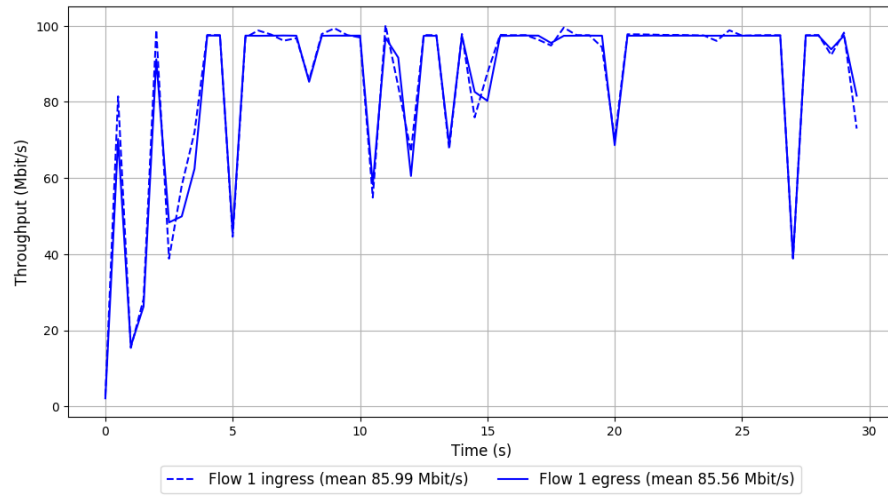
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 85.99 Mbit/s)   Flow 1 egress (mean 85.56 Mbit/s)

Flow 1 (95th percentile 55.57 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-02-02 15:57:36
End at: 2018-02-02 15:58:06
Local clock offset: -0.001 ms
Remote clock offset: -2.486 ms


# Below is generated by plot.py at 2018-02-02 17:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.75 Mbit/s
95th percentile per-packet one-way delay: 30.905 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 60.75 Mbit/s
95th percentile per-packet one-way delay: 30.905 ms
Loss rate: 0.18%
```
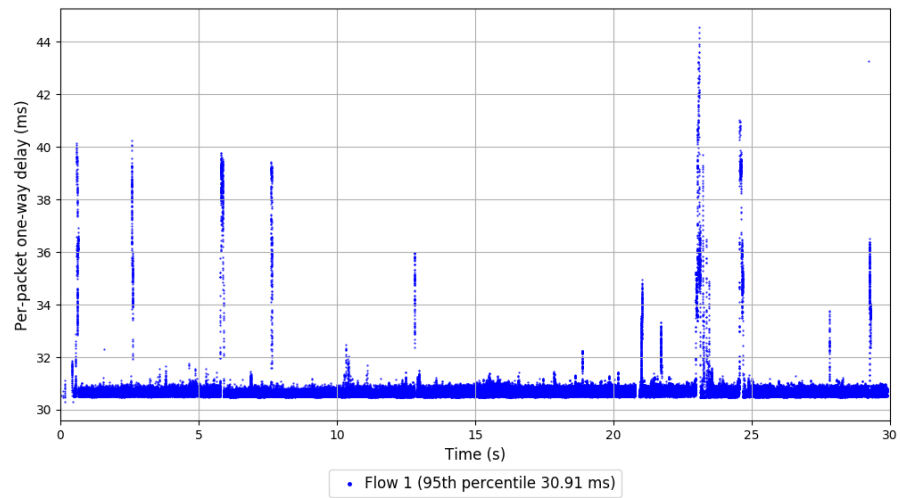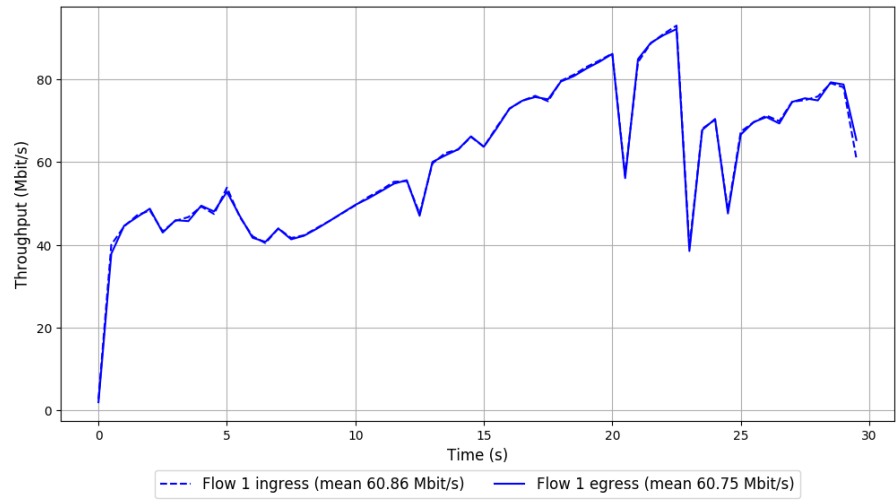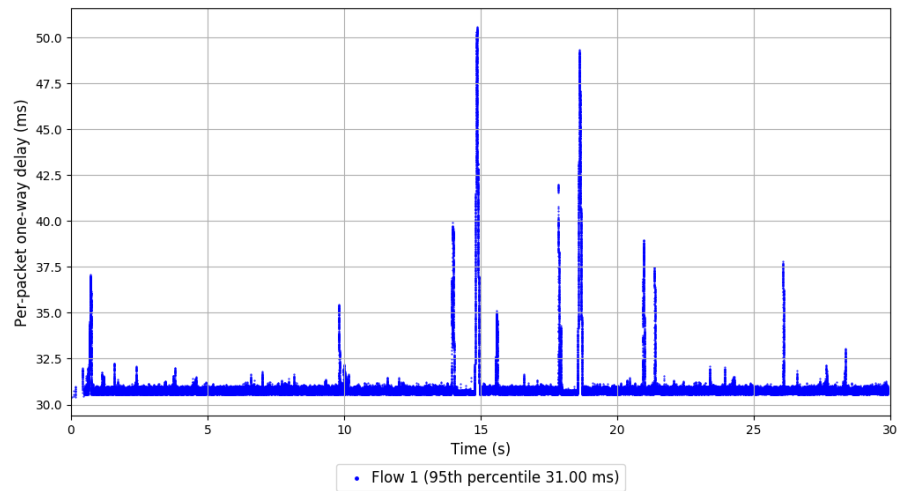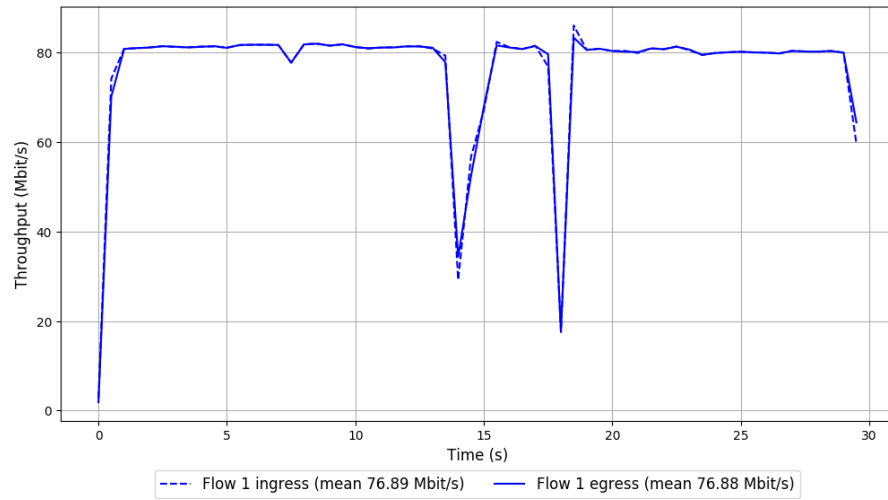
Run 8: Report of QUIC Cubic — Data Link

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-02-02 16:21:37
End at: 2018-02-02 16:22:07
Local clock offset: -0.118 ms
Remote clock offset: -2.902 ms


# Below is generated by plot.py at 2018-02-02 17:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 31.001 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 31.001 ms
Loss rate: 0.02%
```

Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 76.89 Mbit/s)   Flow 1 egress (mean 76.88 Mbit/s)

Flow 1 (95th percentile 31.00 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-02 16:45:46
End at: 2018-02-02 16:46:16
Local clock offset: -0.168 ms
Remote clock offset: -3.309 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.45 Mbit/s
95th percentile per-packet one-way delay: 61.518 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 77.45 Mbit/s
95th percentile per-packet one-way delay: 61.518 ms
Loss rate: 1.09%
```
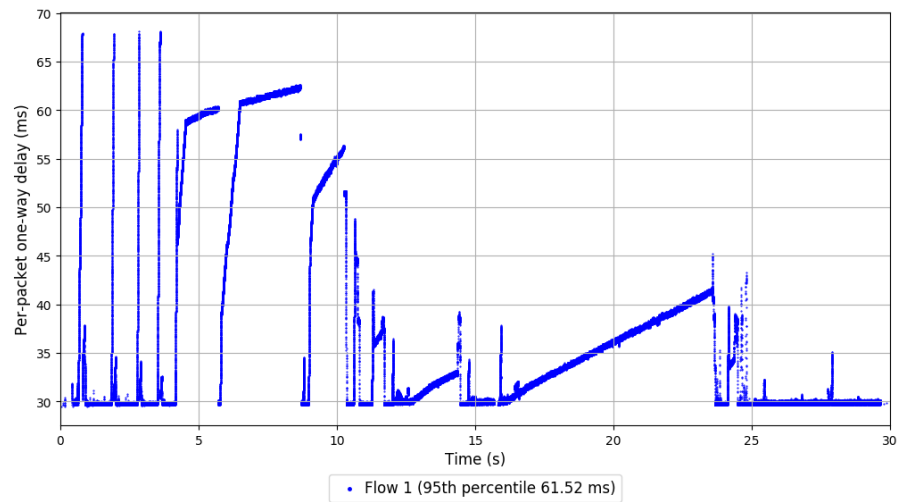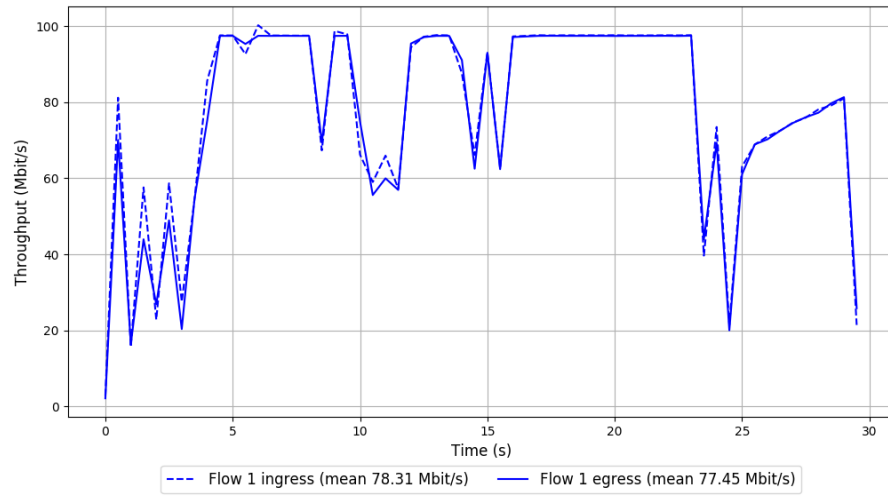
Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 78.31 Mbit/s) — — — Flow 1 egress (mean 77.45 Mbit/s)
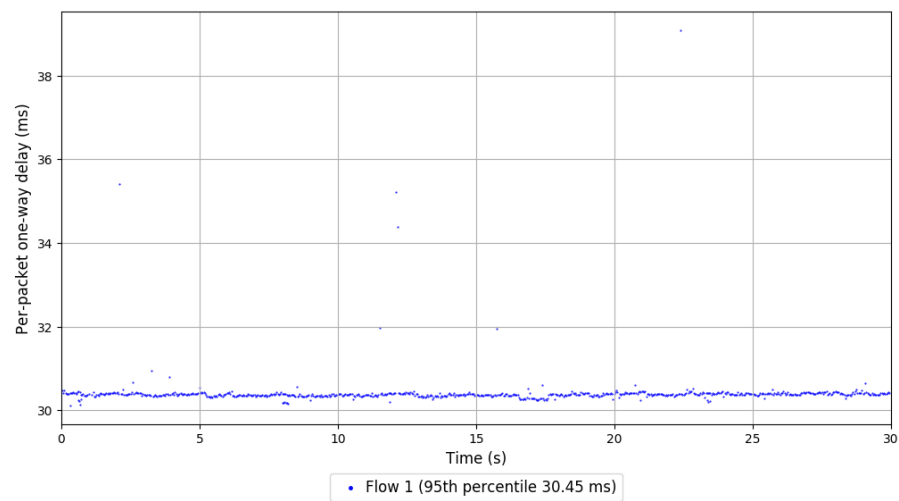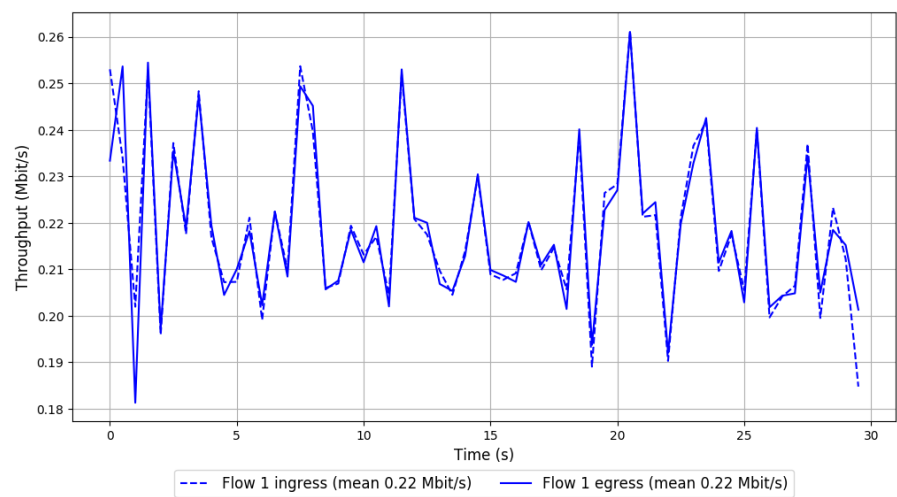

• Flow 1 (95th percentile 61.52 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-02-02 13:09:15
End at: 2018-02-02 13:09:45
Local clock offset: 1.198 ms
Remote clock offset: 0.33 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.446 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.446 ms
Loss rate: 0.00%
```

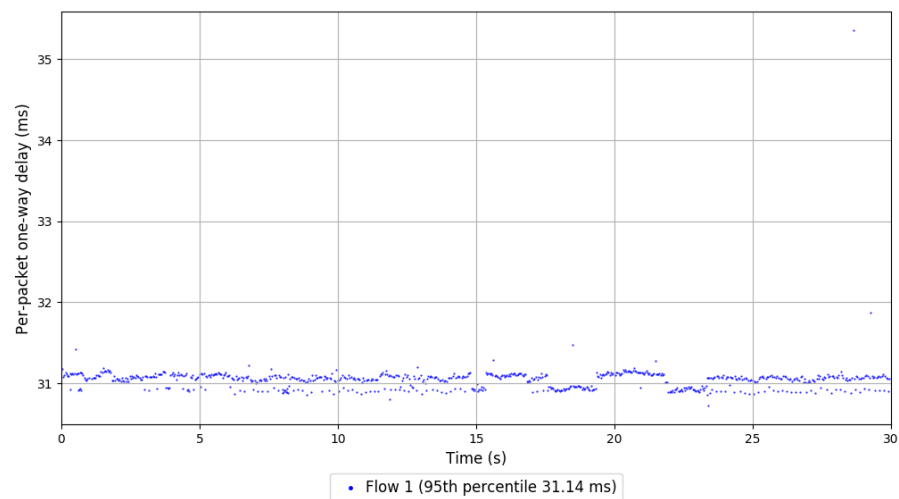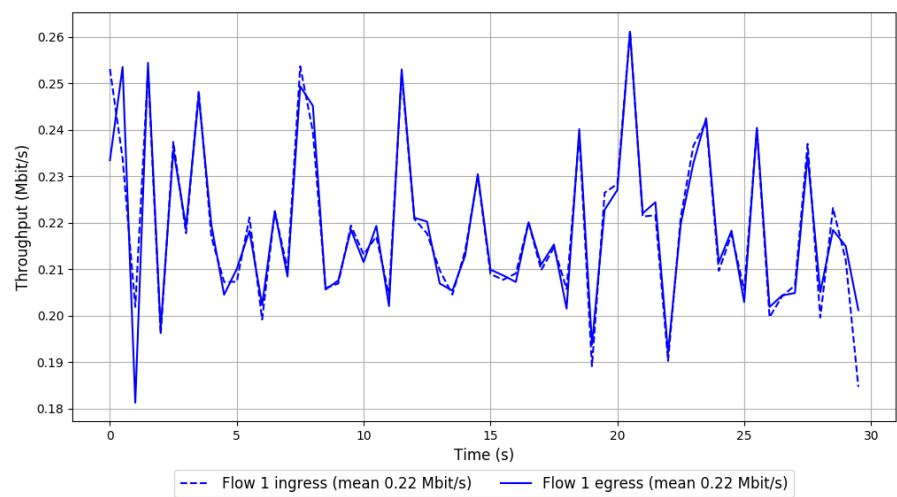# Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2018-02-02 13:33:19
End at: 2018-02-02 13:33:49
Local clock offset: 1.075 ms
Remote clock offset: -0.539 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.135 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.135 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

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

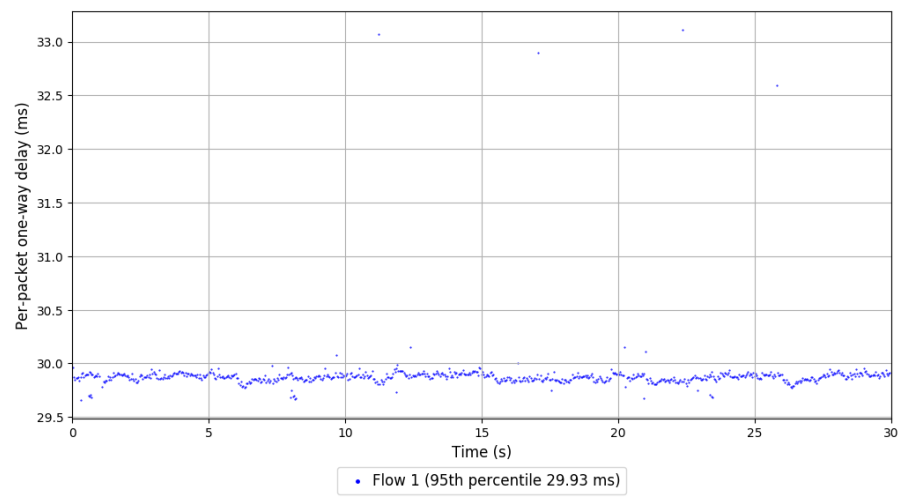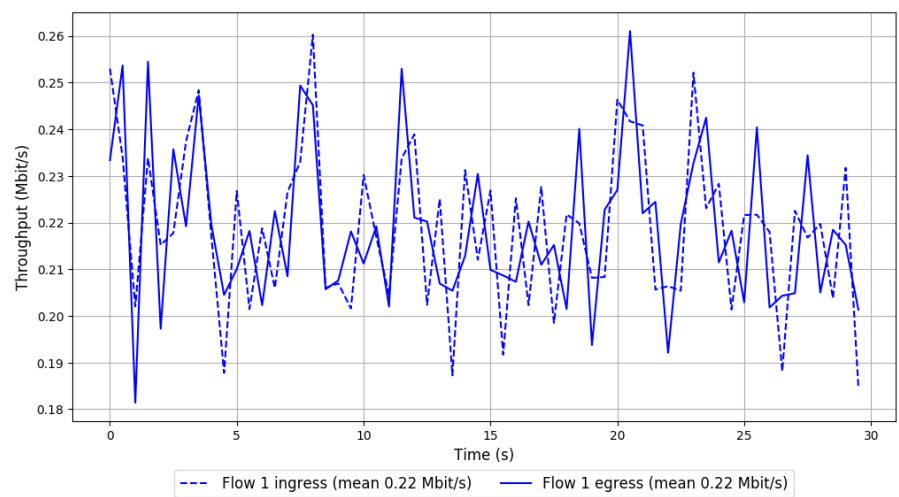Flow 1 (95th percentile 31.14 ms)

```
Run 3: Statistics of SCReAM

Start at: 2018-02-02 13:57:47
End at: 2018-02-02 13:58:17
Local clock offset: 1.176 ms
Remote clock offset: -0.878 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.929 ms
Loss rate: 0.00%
```

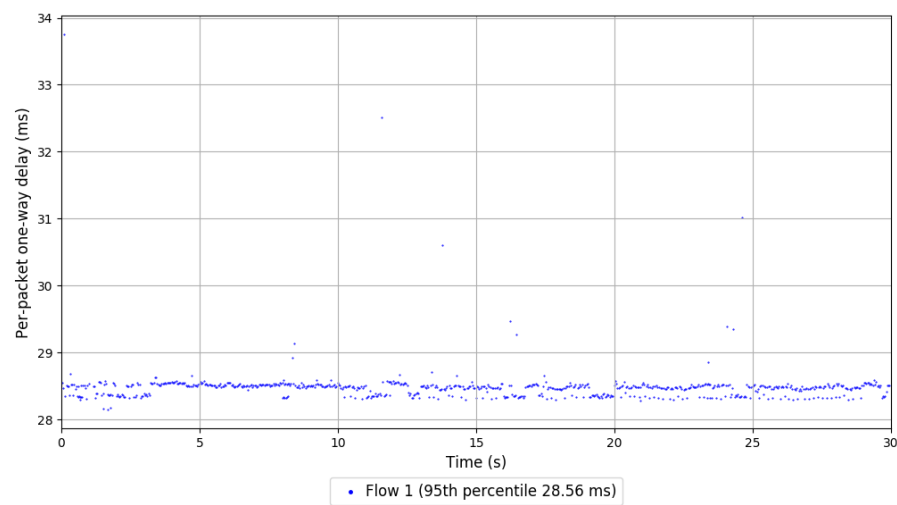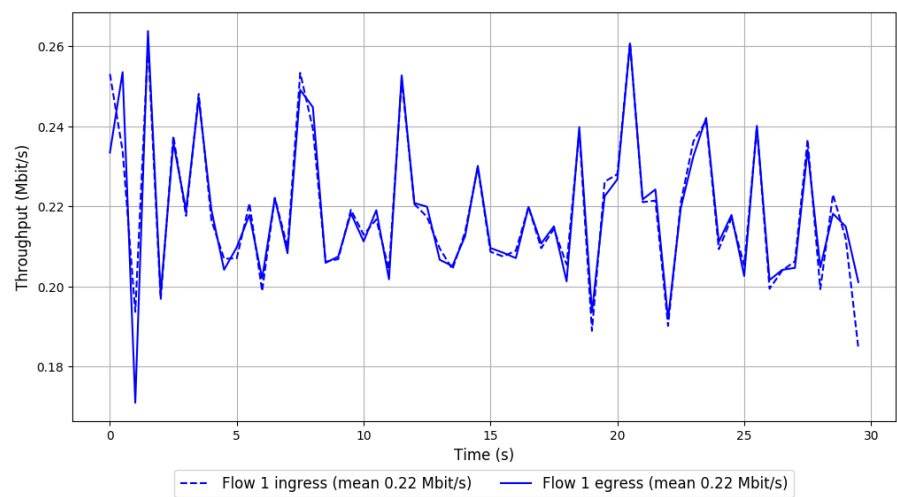Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2018-02-02 14:22:02
End at: 2018-02-02 14:22:32
Local clock offset: 0.98 ms
Remote clock offset: -3.274 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.558 ms
Loss rate: 0.00%
```

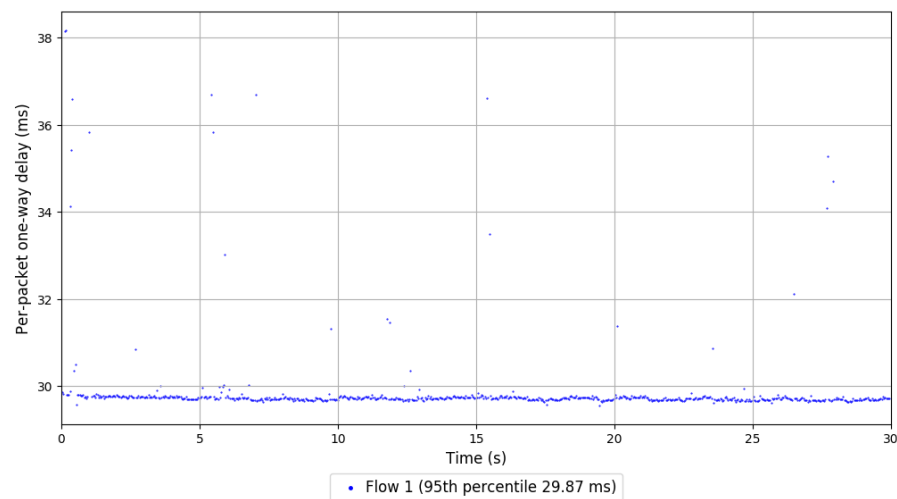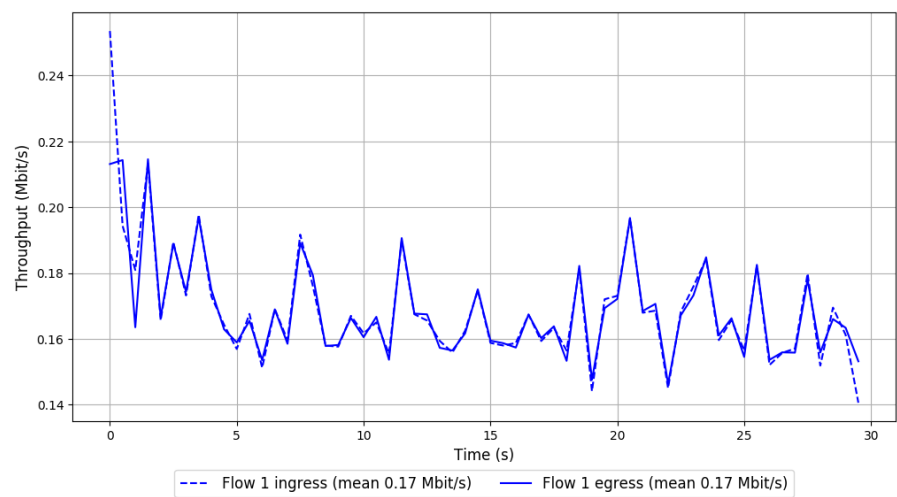Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2018-02-02 14:46:49
End at: 2018-02-02 14:47:19
Local clock offset: 0.875 ms
Remote clock offset: -1.695 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 29.870 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 29.870 ms
Loss rate: 0.20%
```

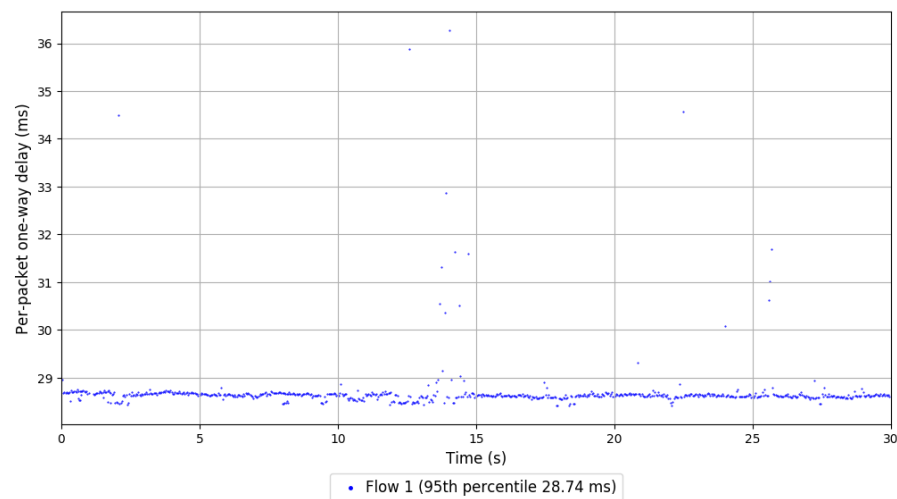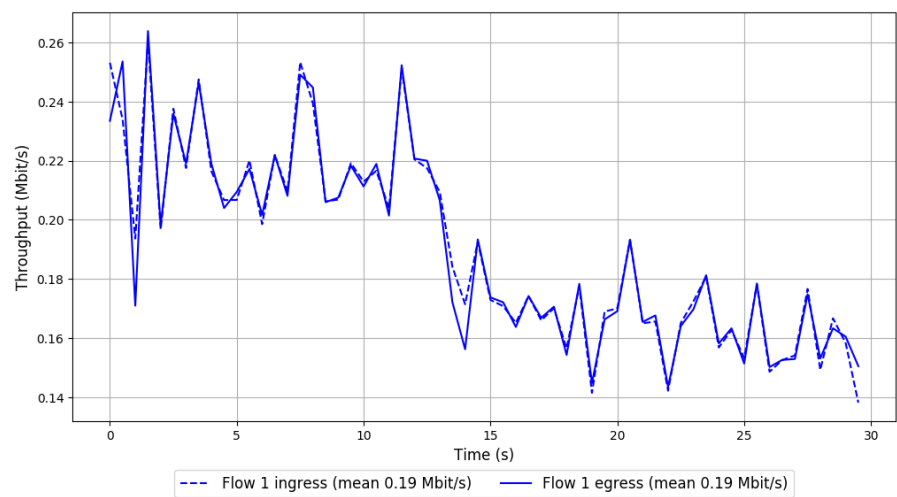## Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2018-02-02 15:11:11
End at: 2018-02-02 15:11:41
Local clock offset: 0.553 ms
Remote clock offset: -3.844 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 28.738 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 28.738 ms
Loss rate: 0.26%
```

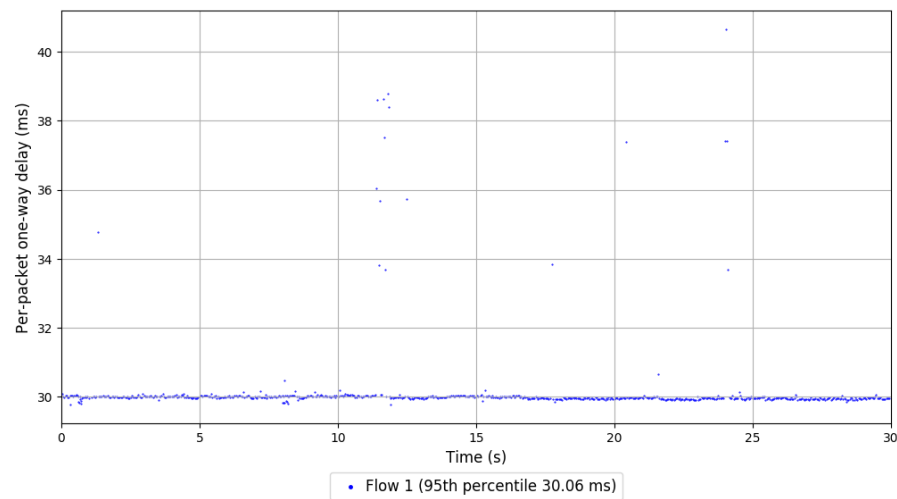# Run 6: Report of SCReAM — Data Link
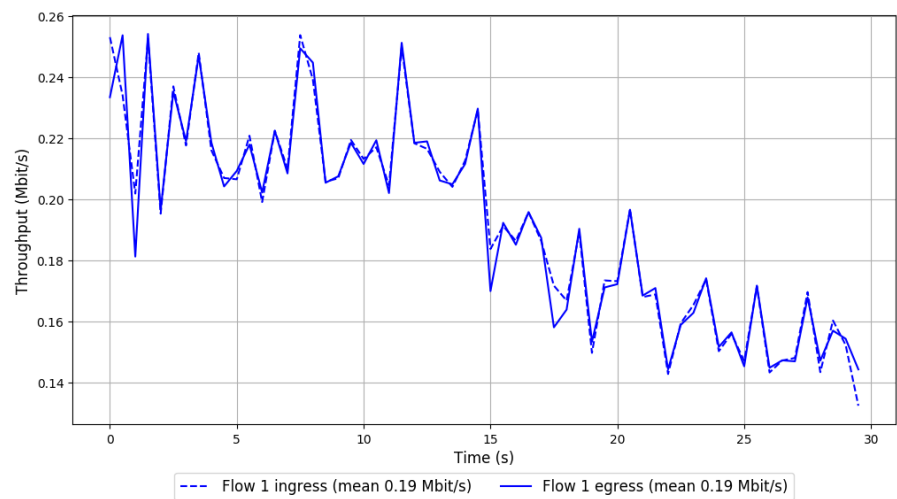

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```
Run 7: Statistics of SCReAM

Start at: 2018-02-02 15:36:34
End at: 2018-02-02 15:37:04
Local clock offset: 0.265 ms
Remote clock offset: -2.339 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 30.058 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 30.058 ms
Loss rate: 0.27%
```

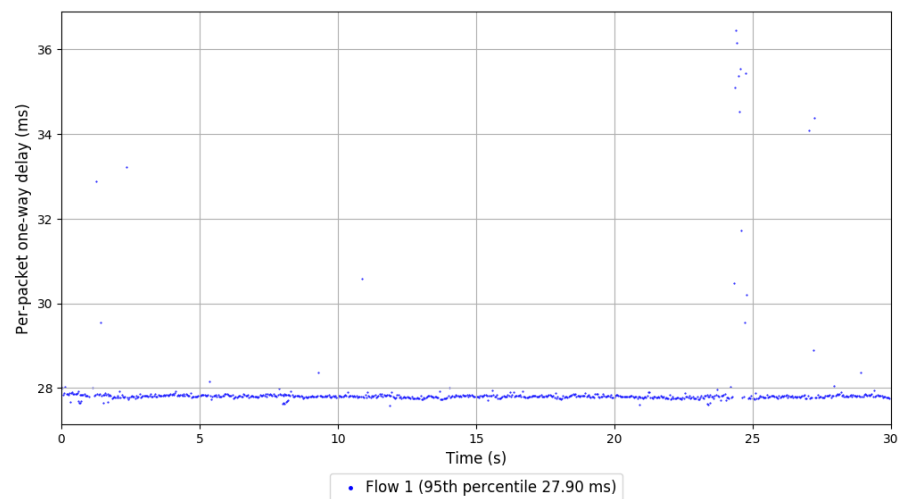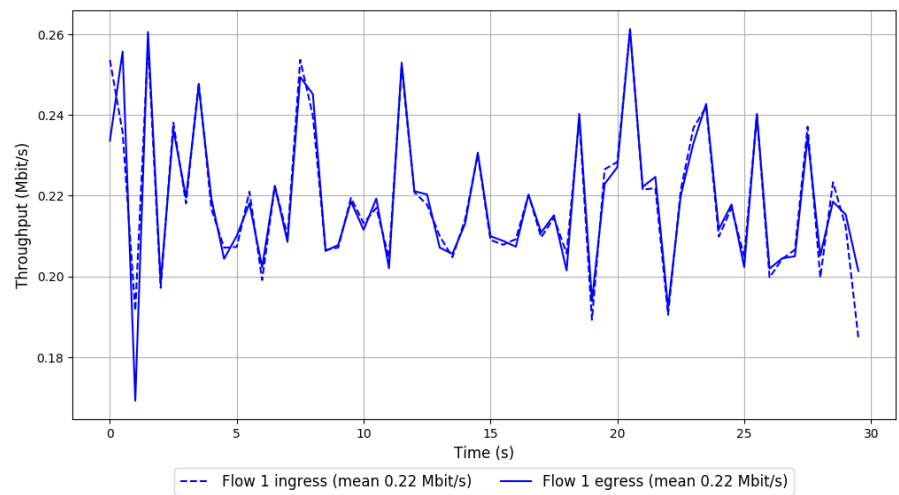# Run 7: Report of SCReAM — Data Link

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```
Run 8: Statistics of SCReAM

Start at: 2018-02-02 16:01:43
End at: 2018-02-02 16:02:13
Local clock offset: 0.076 ms
Remote clock offset: -4.538 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.903 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link

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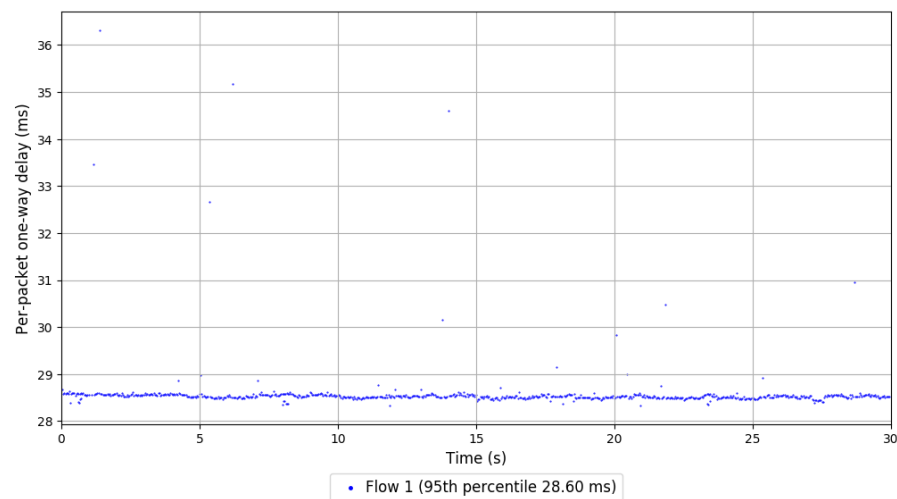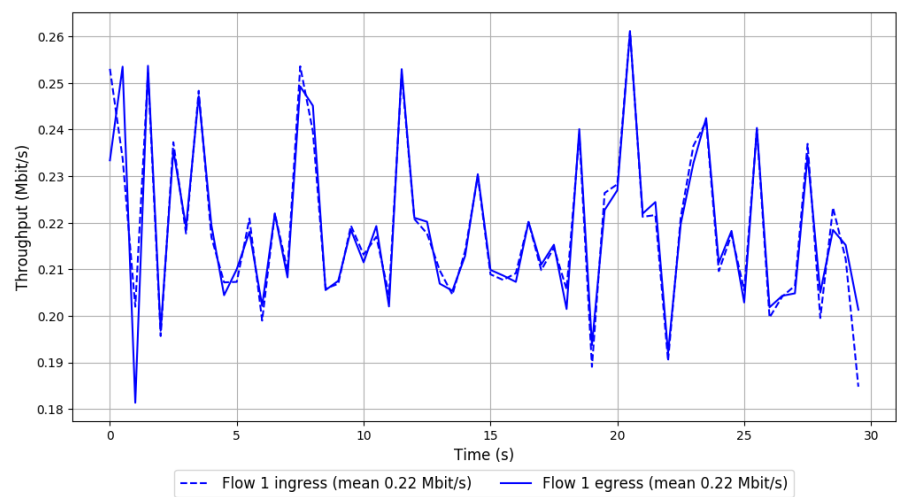

Flow 1 (95th percentile 27.90 ms)

```
Run 9: Statistics of SCReAM

Start at: 2018-02-02 16:25:41
End at: 2018-02-02 16:26:11
Local clock offset: -0.086 ms
Remote clock offset: -5.029 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.597 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

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

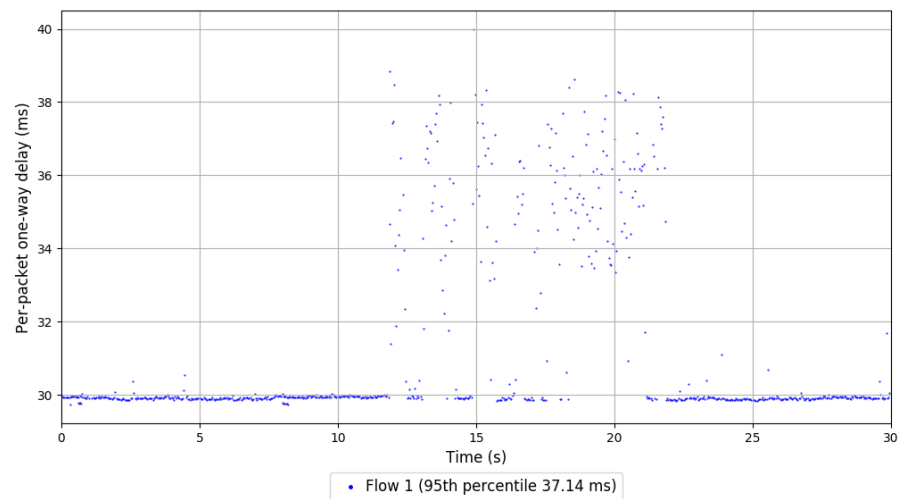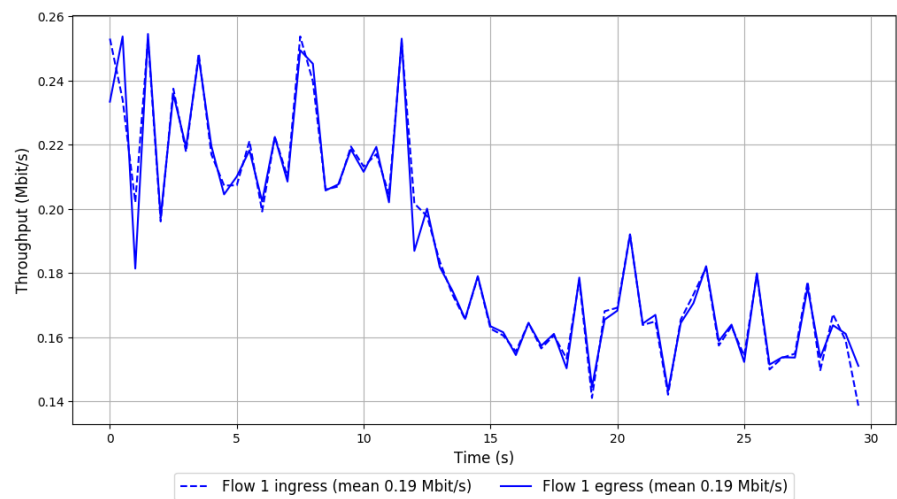Flow 1 (95th percentile 28.60 ms)

```
Run 10: Statistics of SCReAM

Start at: 2018-02-02 16:49:47
End at: 2018-02-02 16:50:17
Local clock offset: -0.221 ms
Remote clock offset: -3.452 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 37.136 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 37.136 ms
Loss rate: 0.15%
```

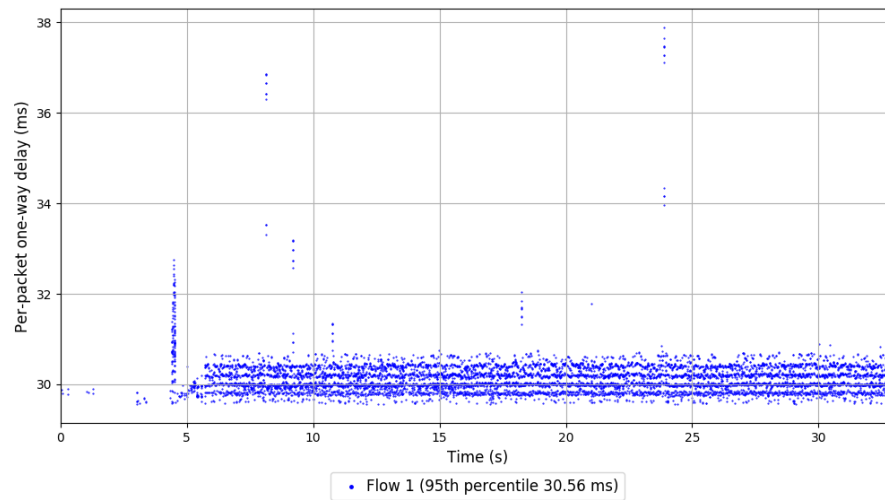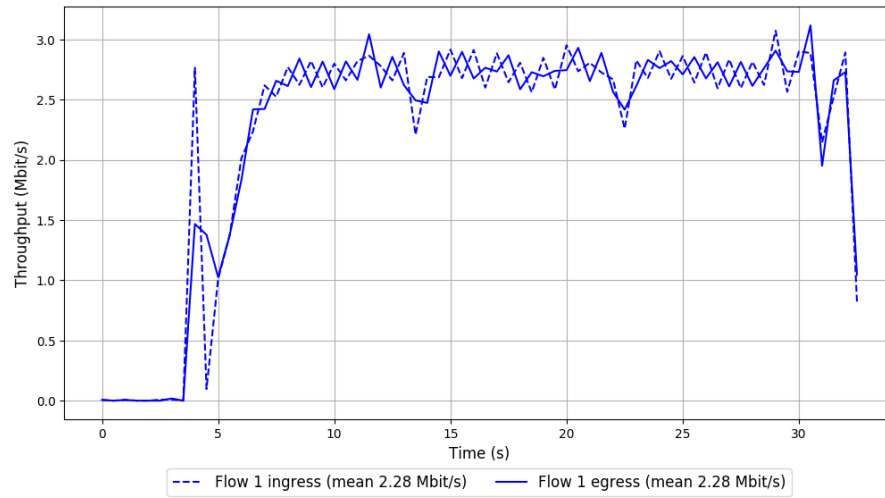Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2018-02-02 13:02:35
End at: 2018-02-02 13:03:05
Local clock offset: 1.088 ms
Remote clock offset: 0.277 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 30.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 30.561 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.28 Mbit/s) --- Flow 1 egress (mean 2.28 Mbit/s)

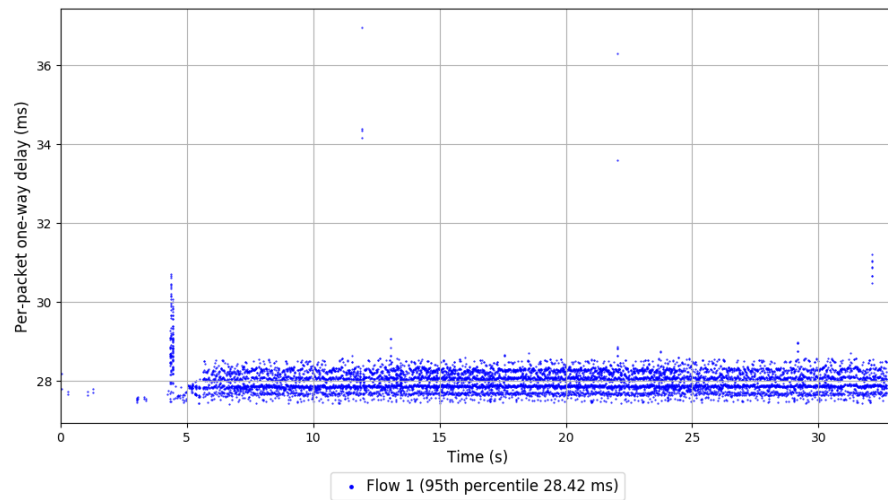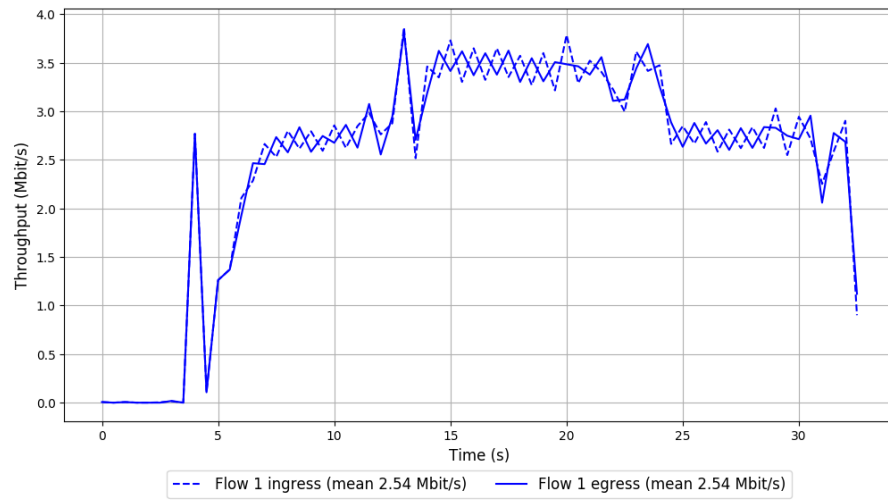
Flow 1 (95th percentile 30.56 ms)

```
Run 2: Statistics of WebRTC media

Start at: 2018-02-02 13:26:38
End at: 2018-02-02 13:27:08
Local clock offset: 1.057 ms
Remote clock offset: -3.107 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 28.422 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.54 Mbit/s
95th percentile per-packet one-way delay: 28.422 ms
Loss rate: 0.08%
```
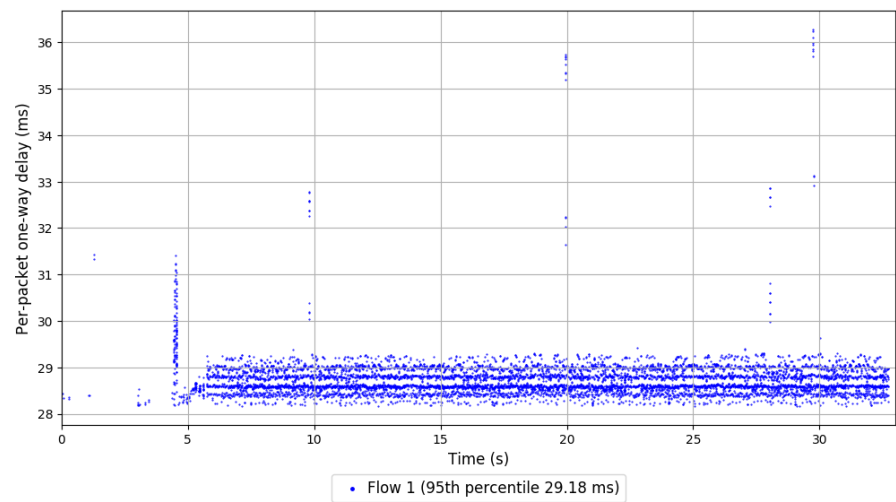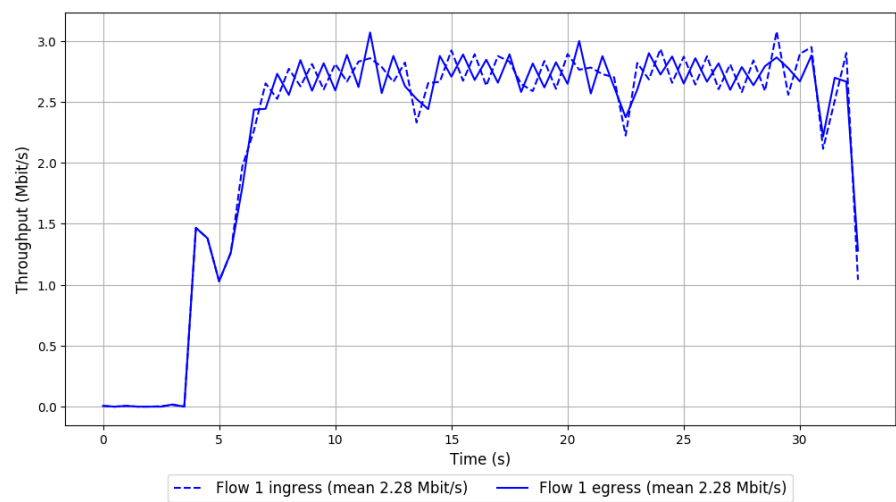
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-02-02 13:51:03
End at: 2018-02-02 13:51:33
Local clock offset: 1.091 ms
Remote clock offset: -3.009 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.175 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.28 Mbit/s) --- Flow 1 egress (mean 2.28 Mbit/s)

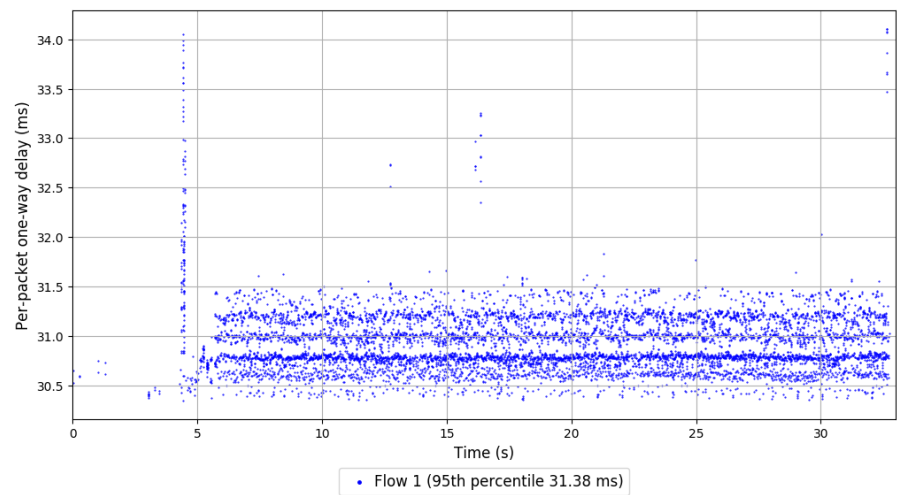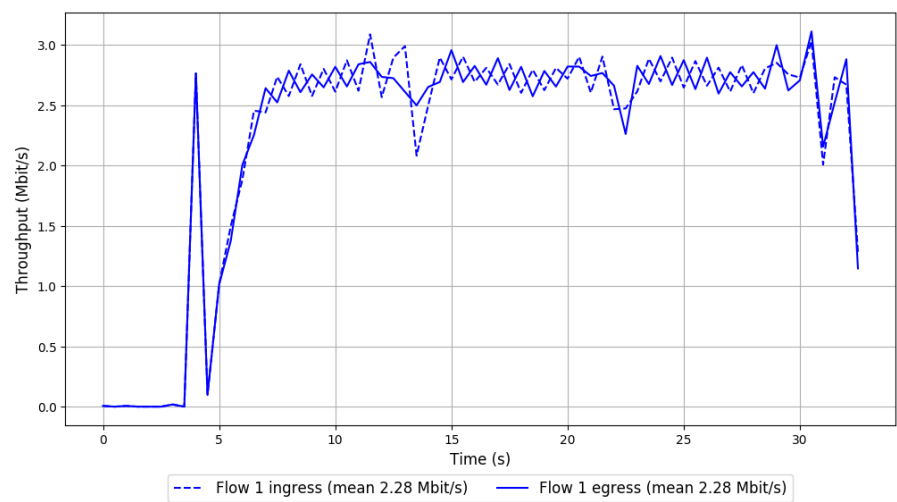

Flow 1 (95th percentile 29.18 ms)

```
Run 4: Statistics of WebRTC media

Start at: 2018-02-02 14:15:23
End at: 2018-02-02 14:15:54
Local clock offset: 1.04 ms
Remote clock offset: -0.839 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 31.381 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 31.381 ms
Loss rate: 0.09%
```
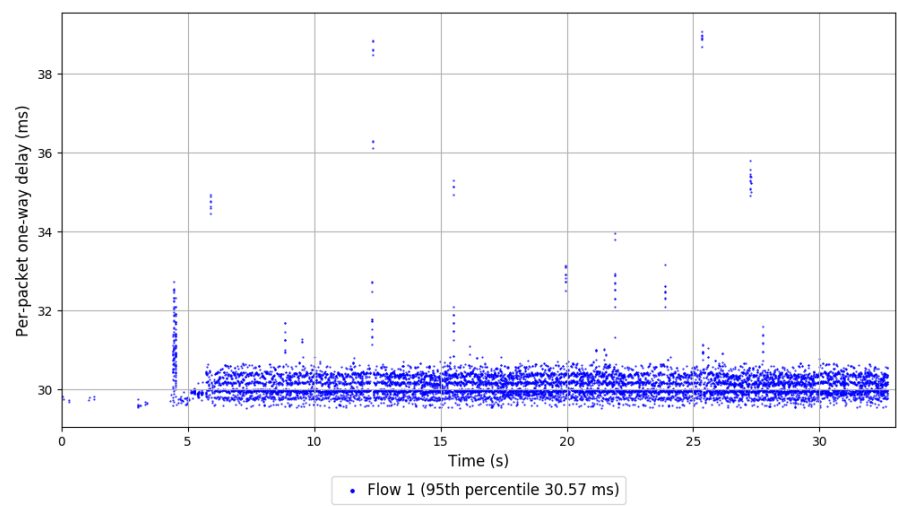
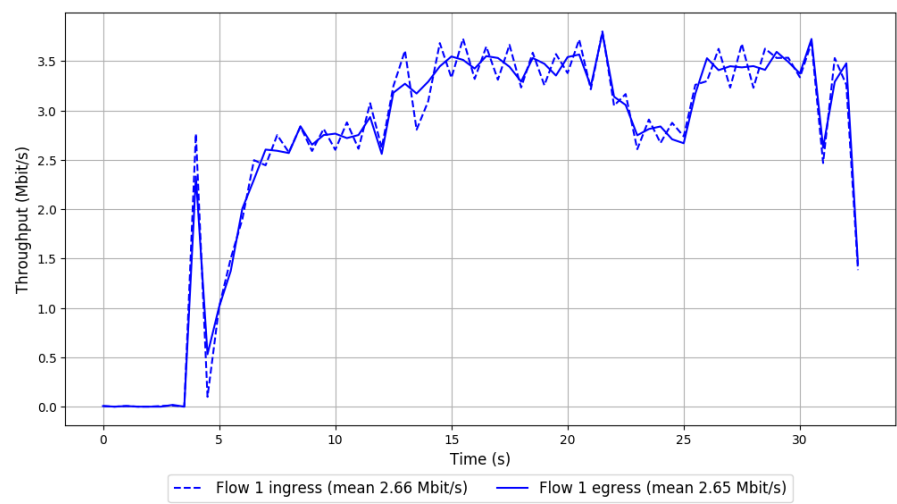## Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2018-02-02 14:40:12
End at: 2018-02-02 14:40:42
Local clock offset: 0.845 ms
Remote clock offset: -1.631 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 30.569 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 30.569 ms
Loss rate: 0.09%
```
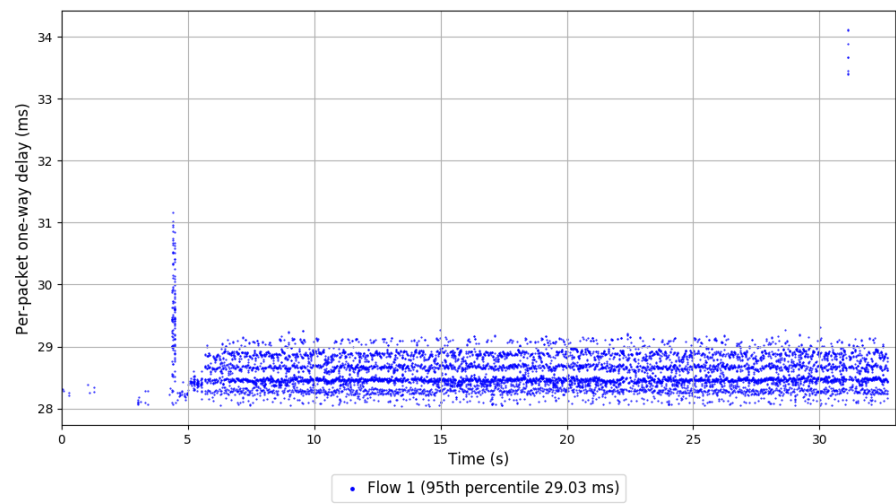
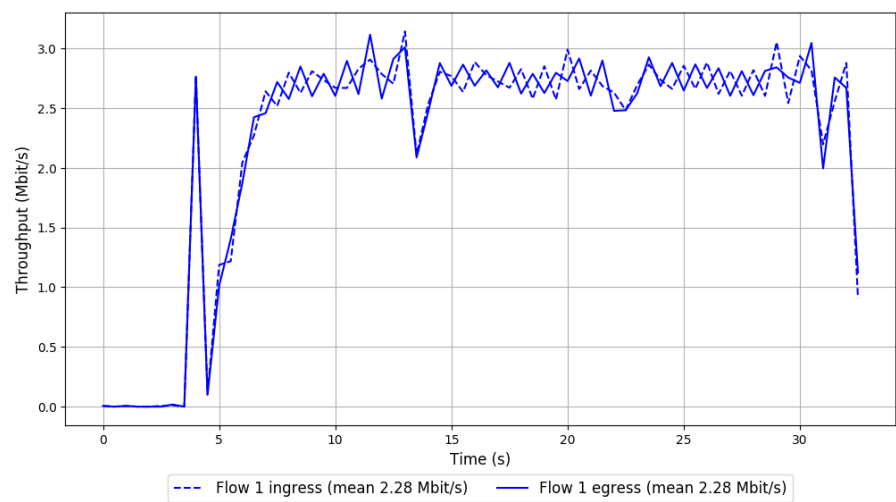Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2018-02-02 15:04:18
End at: 2018-02-02 15:04:48
Local clock offset: 0.645 ms
Remote clock offset: -3.914 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.030 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.28 Mbit/s)   Flow 1 egress (mean 2.28 Mbit/s)
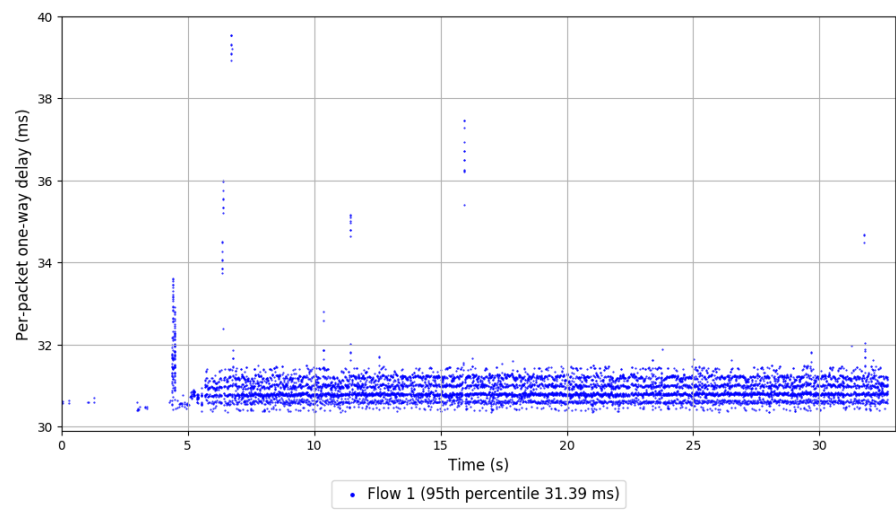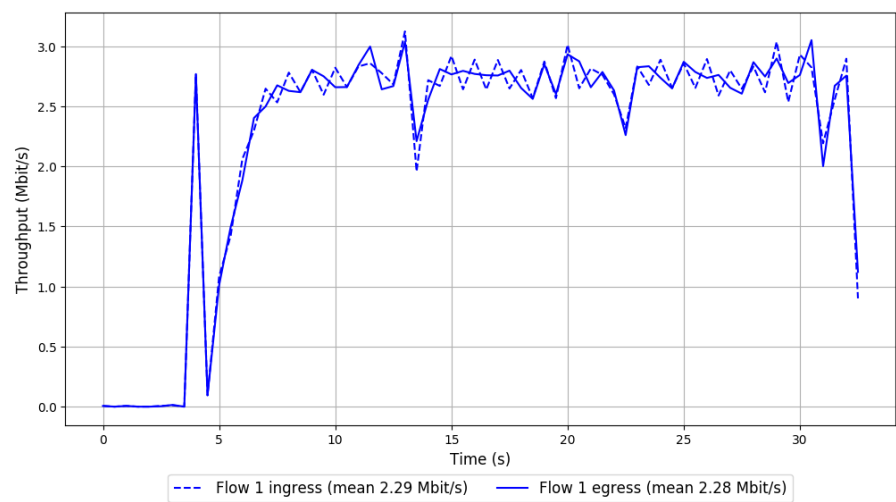

Flow 1 (95th percentile 29.03 ms)

```
Run 7: Statistics of WebRTC media

Start at: 2018-02-02 15:29:23
End at: 2018-02-02 15:29:53
Local clock offset: 0.305 ms
Remote clock offset: -2.223 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 31.388 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 31.388 ms
Loss rate: 0.01%
```

Run 7: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.29 Mbit/s)   Flow 1 egress (mean 2.28 Mbit/s)
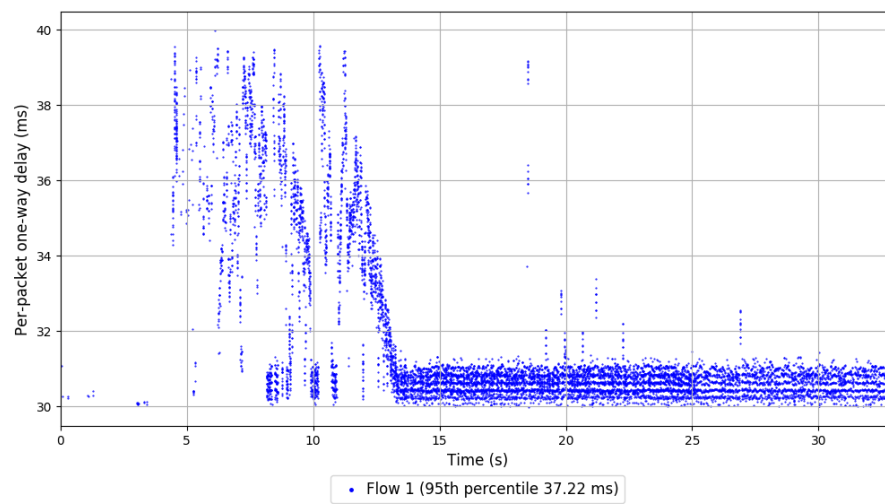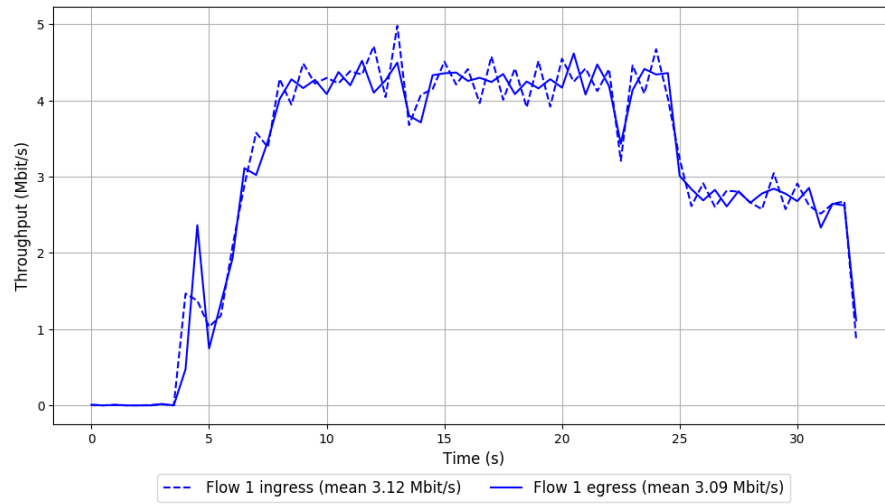

Flow 1 (95th percentile 31.39 ms)

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```
Run 8: Statistics of WebRTC media

Start at: 2018-02-02 15:54:49
End at: 2018-02-02 15:55:19
Local clock offset: 0.09 ms
Remote clock offset: -2.025 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 37.215 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 37.215 ms
Loss rate: 0.76%
```

Run 8: Report of WebRTC media — Data Link

Flow 1 ingress (mean 3.12 Mbit/s)   Flow 1 egress (mean 3.09 Mbit/s)
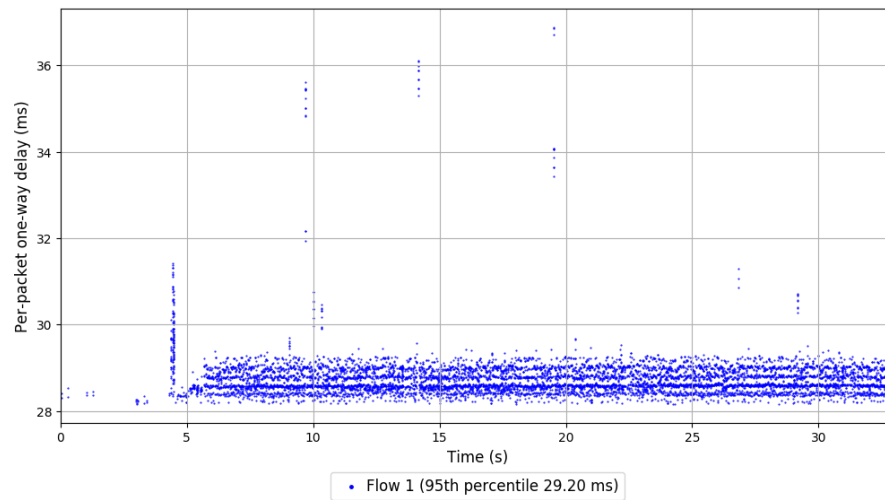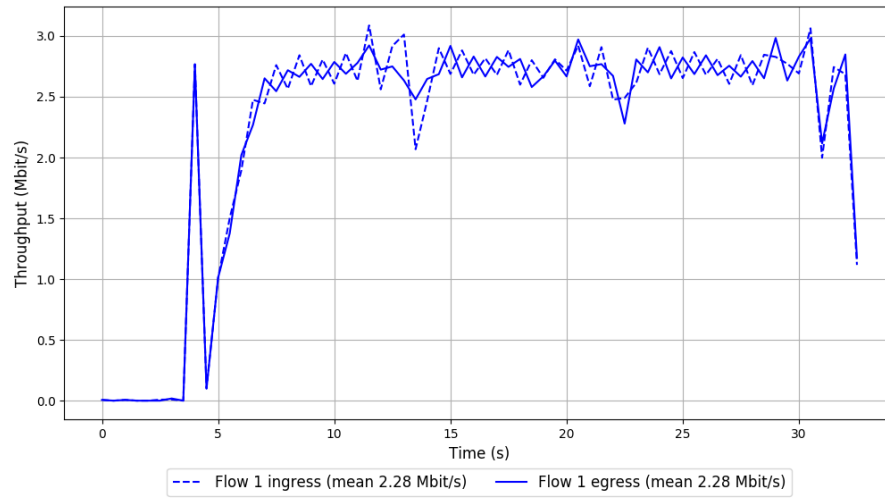

Flow 1 (95th percentile 37.22 ms)

```
Run 9: Statistics of WebRTC media

Start at: 2018-02-02 16:19:00
End at: 2018-02-02 16:19:30
Local clock offset: -0.004 ms
Remote clock offset: -4.884 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.200 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.200 ms
Loss rate: 0.00%
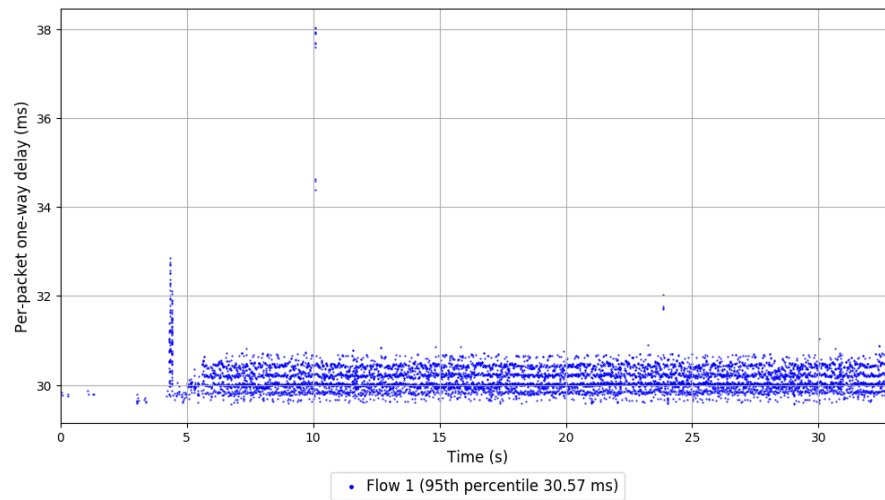```
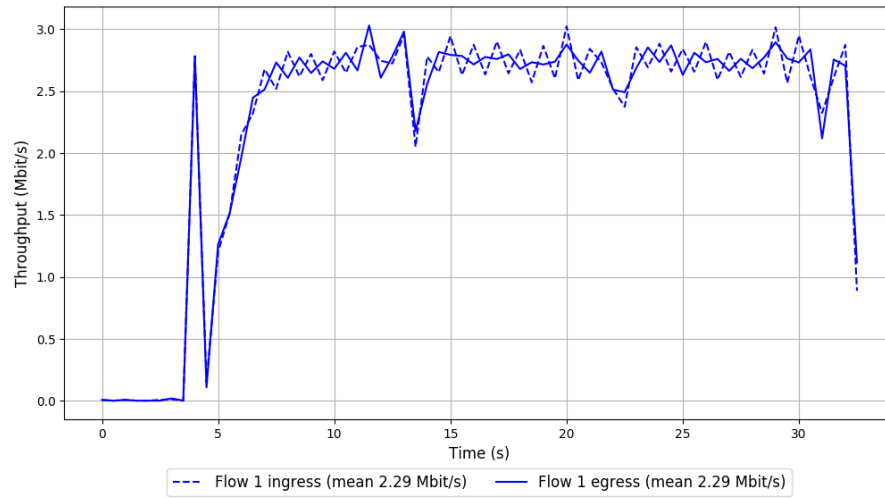
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-02-02 16:43:08
End at: 2018-02-02 16:43:38
Local clock offset: -0.249 ms
Remote clock offset: -3.133 ms

Below is generated by plot.py at 2018-02-02 17:30:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 30.566 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 30.566 ms
Loss rate: 0.00%
```
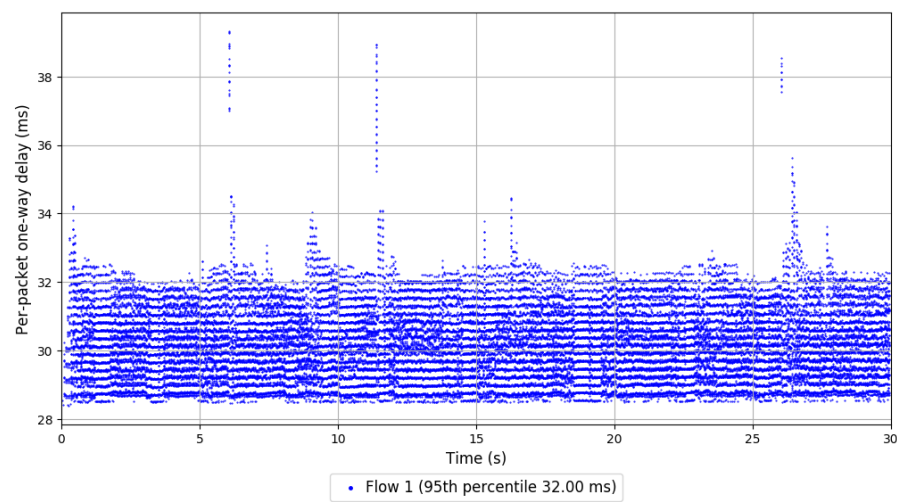
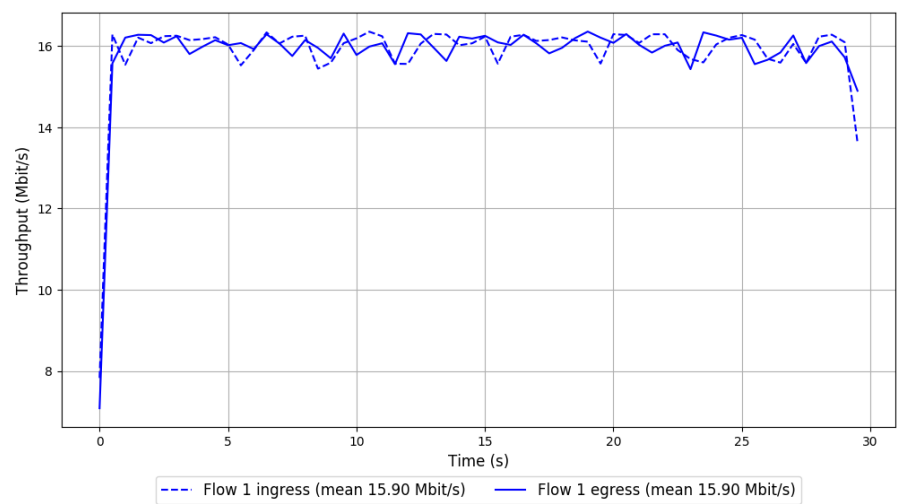# Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2018-02-02 13:13:11
End at: 2018-02-02 13:13:41
Local clock offset: 1.136 ms
Remote clock offset: -2.463 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 32.004 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 32.004 ms
Loss rate: 0.04%
```

Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-02-02 13:37:18
End at: 2018-02-02 13:37:48
Local clock offset: 1.048 ms
Remote clock offset: -0.67 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 33.815 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 33.815 ms
Loss rate: 0.00%
```
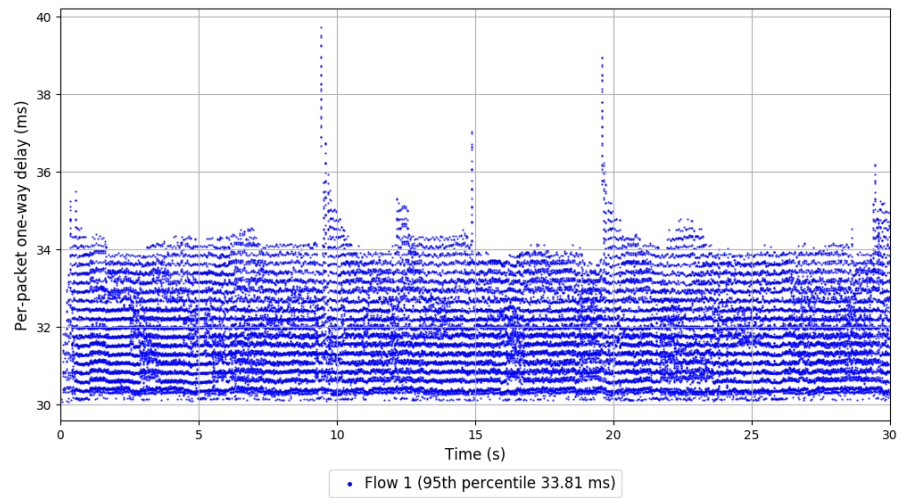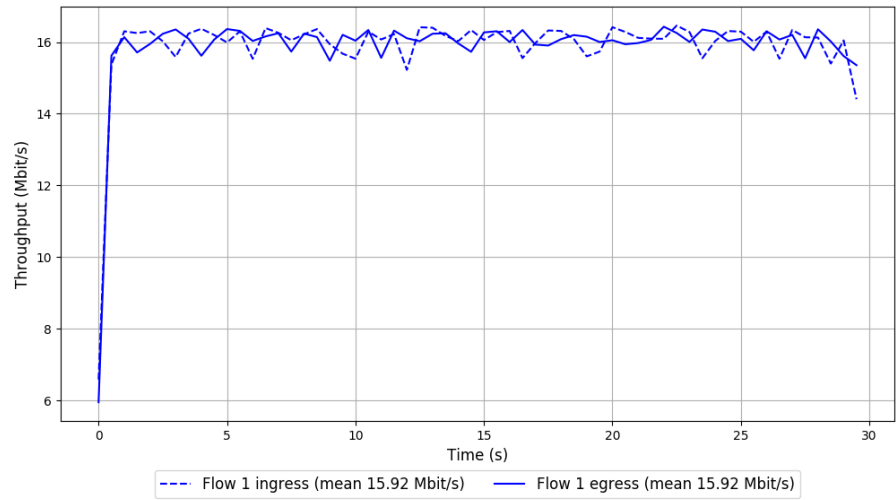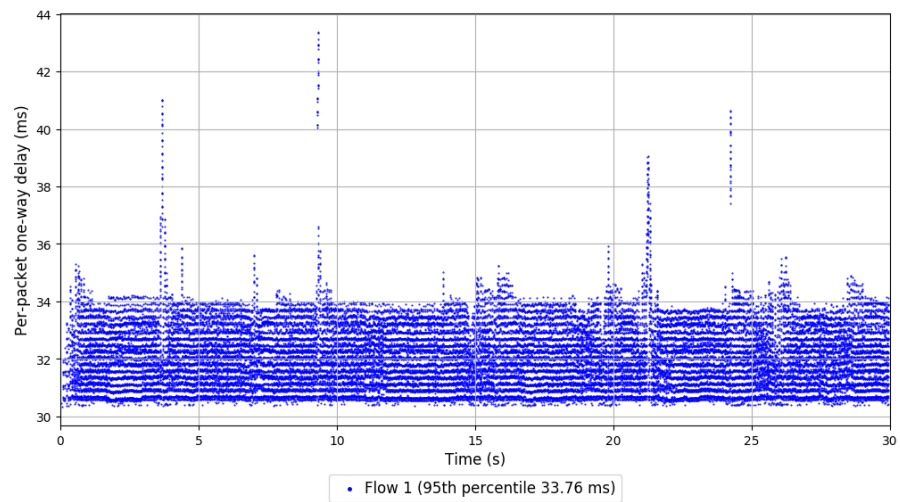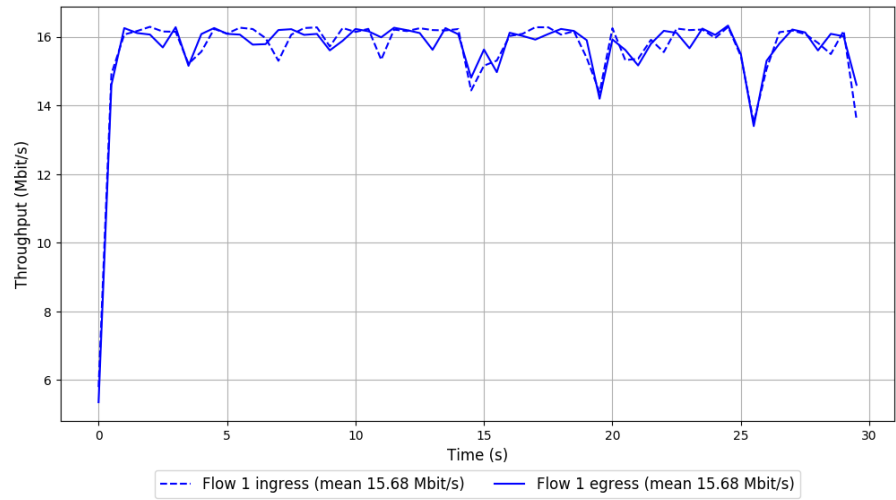
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-02-02 14:01:48
End at: 2018-02-02 14:02:18
Local clock offset: 1.174 ms
Remote clock offset: -0.887 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 33.757 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 33.757 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2018-02-02 14:26:14
End at: 2018-02-02 14:26:44
Local clock offset: 0.923 ms
Remote clock offset: -3.26 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 31.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.55 Mbit/s
95th percentile per-packet one-way delay: 31.896 ms
Loss rate: 0.00%
```
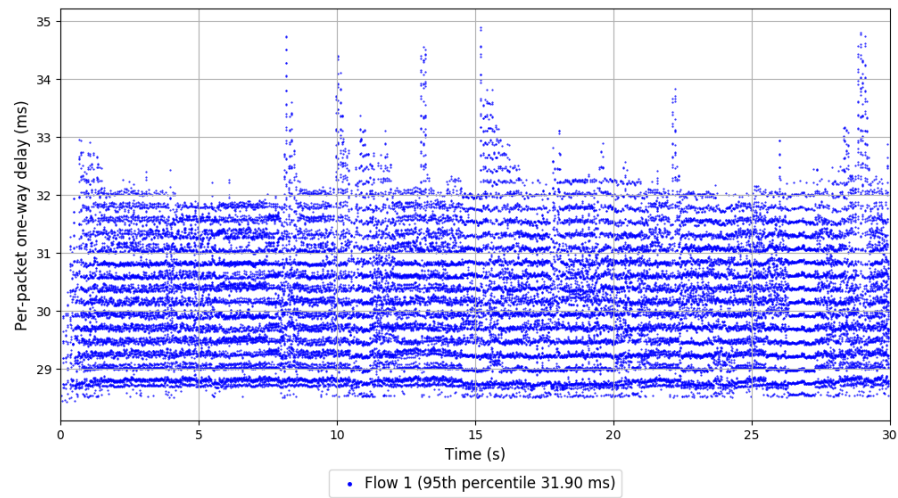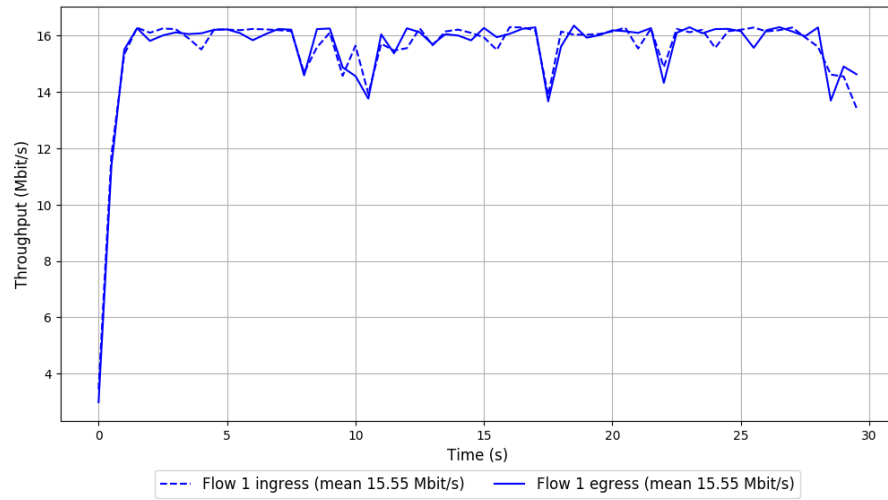
Run 4: Report of Sprout — Data Link

Flow 1 ingress (mean 15.55 Mbit/s)   Flow 1 egress (mean 15.55 Mbit/s)

• Flow 1 (95th percentile 31.90 ms)

```
Run 5: Statistics of Sprout

Start at: 2018-02-02 14:50:45
End at: 2018-02-02 14:51:15
Local clock offset: 0.719 ms
Remote clock offset: -1.2 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 33.801 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 33.801 ms
Loss rate: 0.03%
```
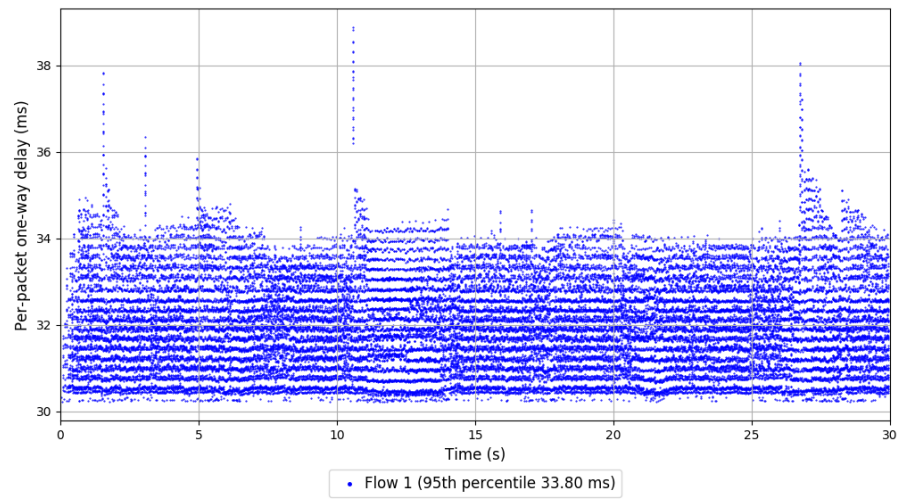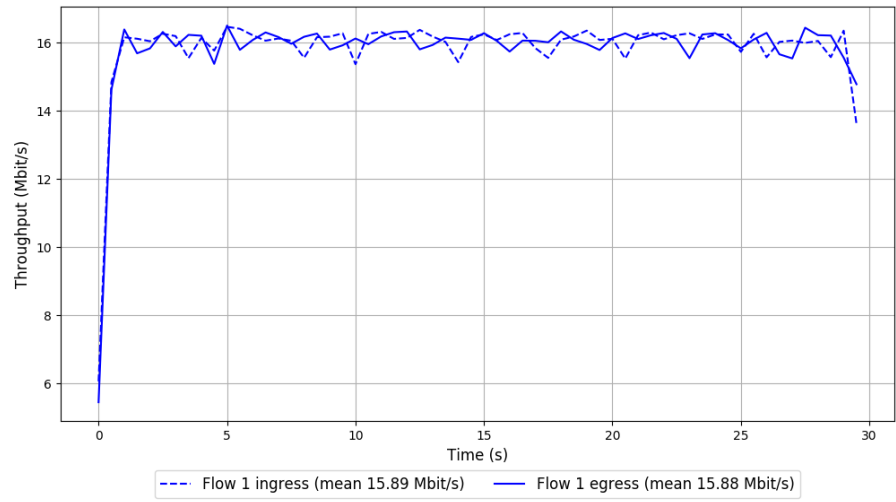
Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 15.89 Mbit/s)   Flow 1 egress (mean 15.88 Mbit/s)
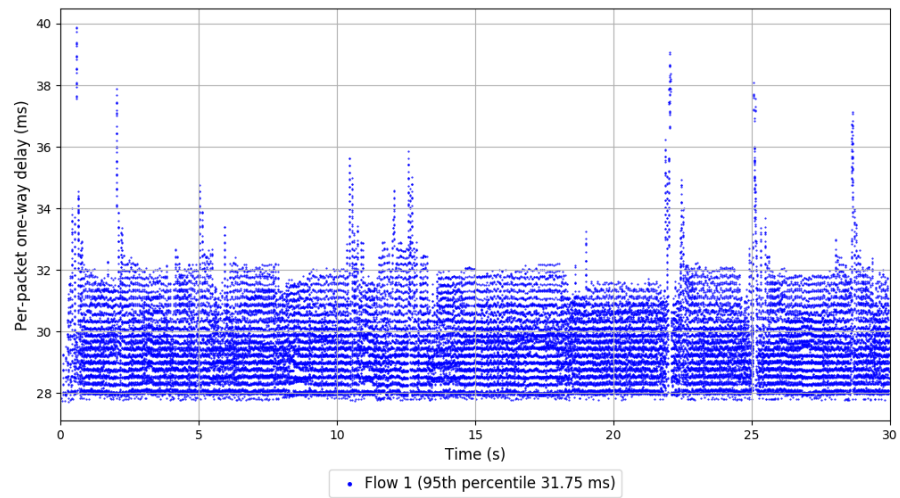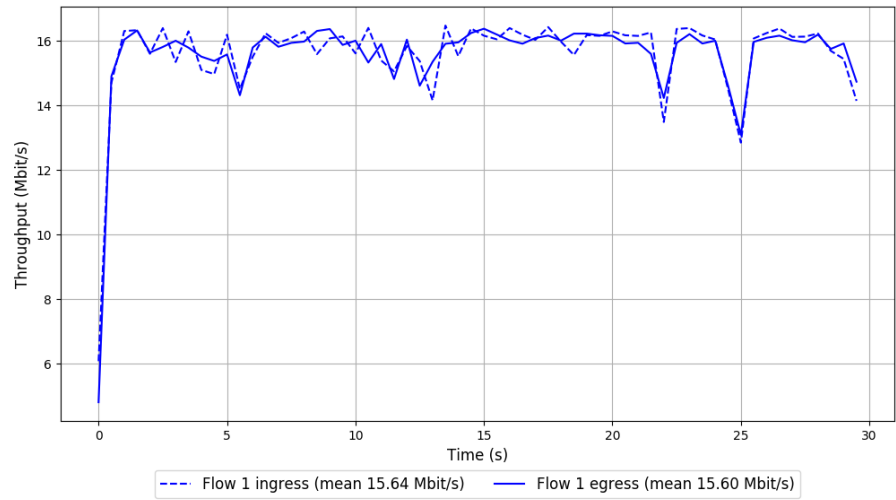

• Flow 1 (95th percentile 33.80 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-02-02 15:15:16
End at: 2018-02-02 15:15:46
Local clock offset: 0.535 ms
Remote clock offset: -3.937 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.60 Mbit/s
95th percentile per-packet one-way delay: 31.755 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 15.60 Mbit/s
95th percentile per-packet one-way delay: 31.755 ms
Loss rate: 0.20%
```

Run 6: Report of Sprout — Data Link

Flow 1 ingress (mean 15.64 Mbit/s) --- Flow 1 egress (mean 15.60 Mbit/s)
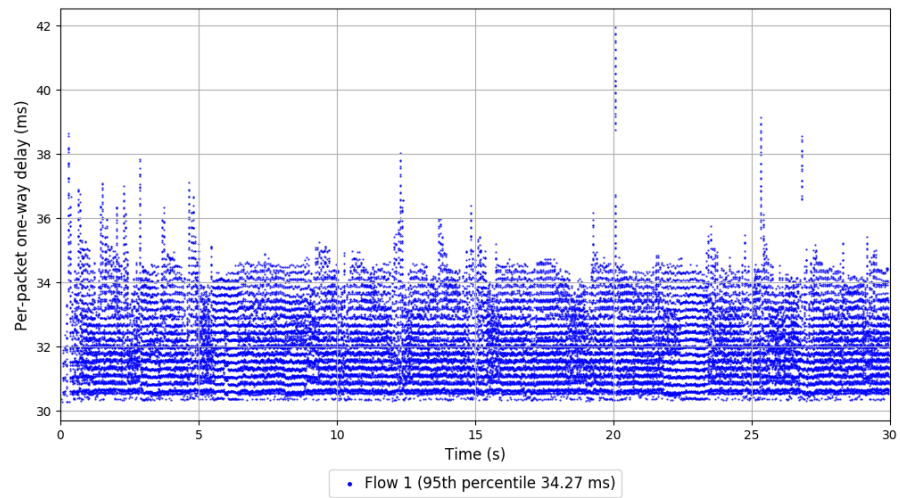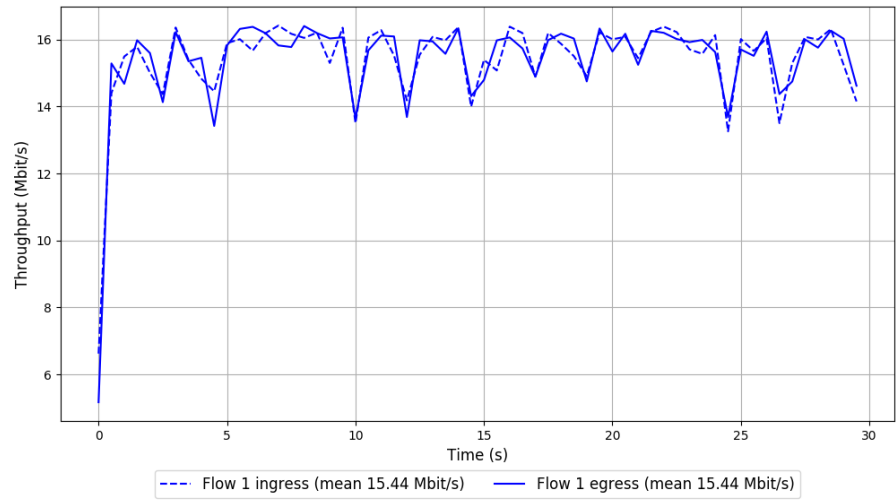

Flow 1 (95th percentile 31.75 ms)

```
Run 7: Statistics of Sprout

Start at: 2018-02-02 15:40:42
End at: 2018-02-02 15:41:12
Local clock offset: 0.205 ms
Remote clock offset: -1.918 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 34.271 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 34.271 ms
Loss rate: 0.01%
```

Run 7: Report of Sprout — Data Link

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```
Run 8: Statistics of Sprout

Start at: 2018-02-02 16:05:41
End at: 2018-02-02 16:06:11
Local clock offset: 0.062 ms
Remote clock offset: -2.42 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 33.613 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 15.88 Mbit/s
95th percentile per-packet one-way delay: 33.613 ms
Loss rate: 0.04%
```
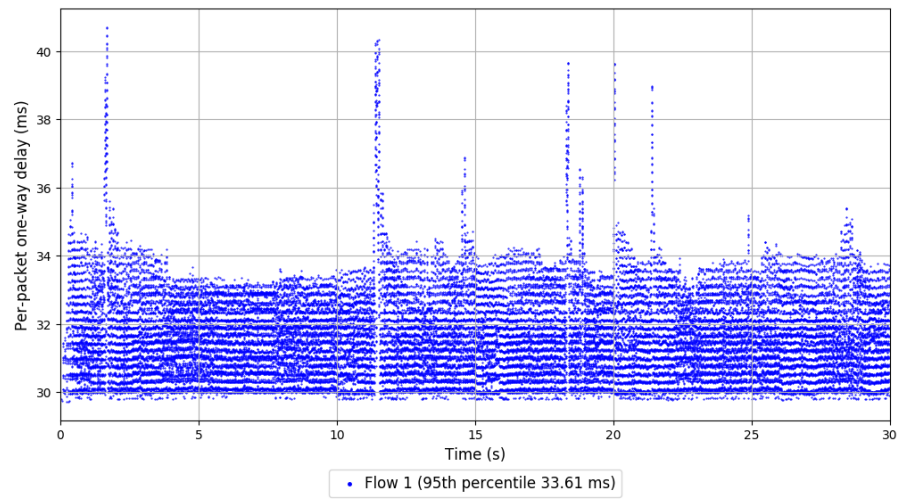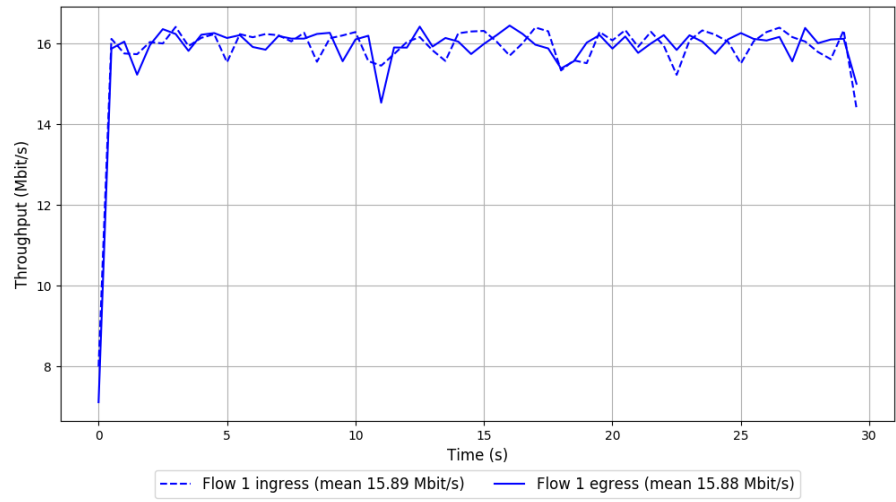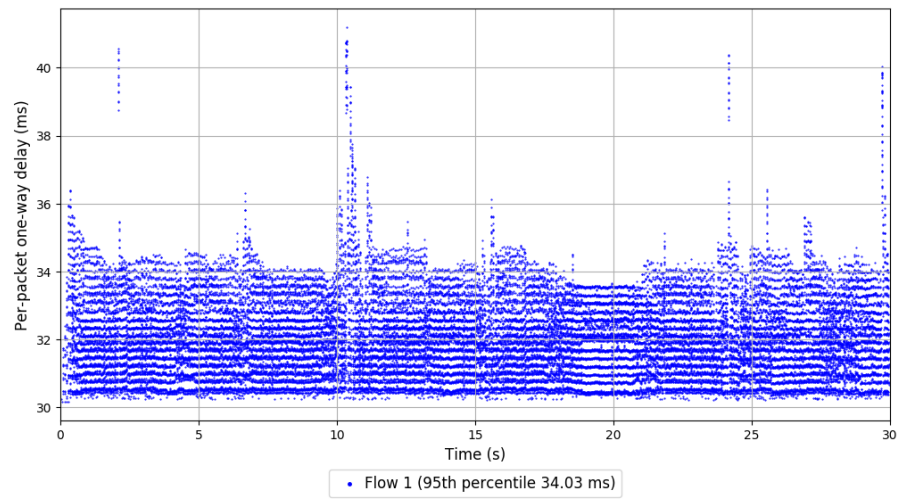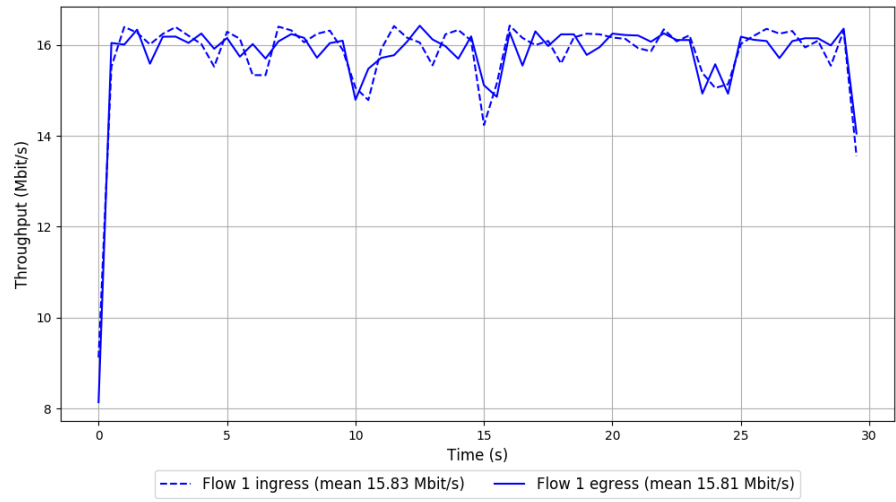
Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2018-02-02 16:29:41
End at: 2018-02-02 16:30:11
Local clock offset: -0.09 ms
Remote clock offset: -2.386 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 34.027 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 15.81 Mbit/s
95th percentile per-packet one-way delay: 34.027 ms
Loss rate: 0.12%
```

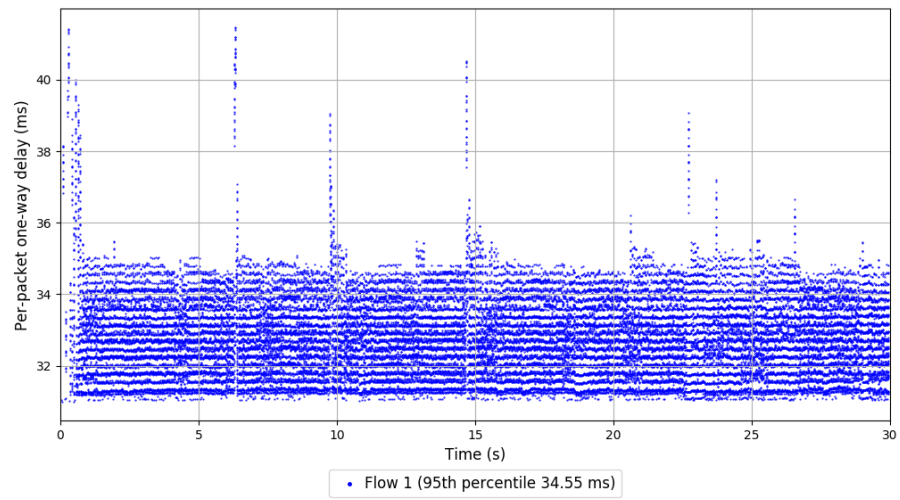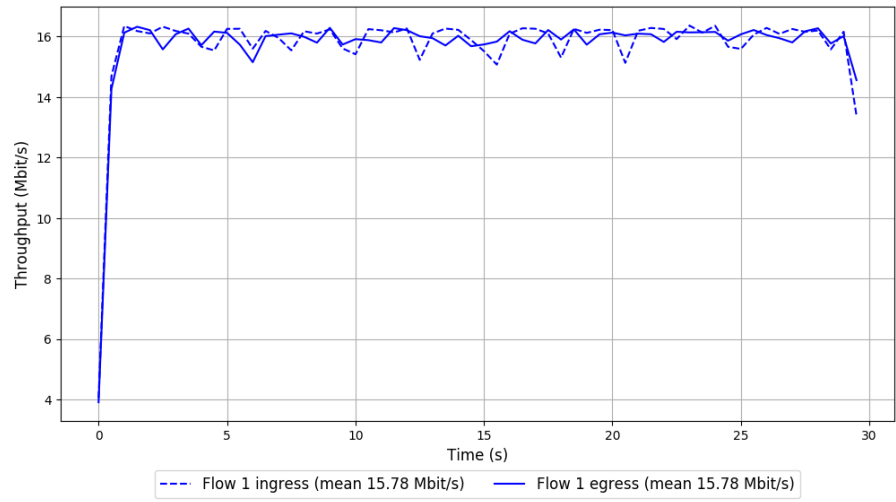# Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2018-02-02 16:53:48
End at: 2018-02-02 16:54:18
Local clock offset: -0.308 ms
Remote clock offset: -3.153 ms


# Below is generated by plot.py at 2018-02-02 17:30:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 34.552 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 15.78 Mbit/s
95th percentile per-packet one-way delay: 34.552 ms
Loss rate: 0.04%
```

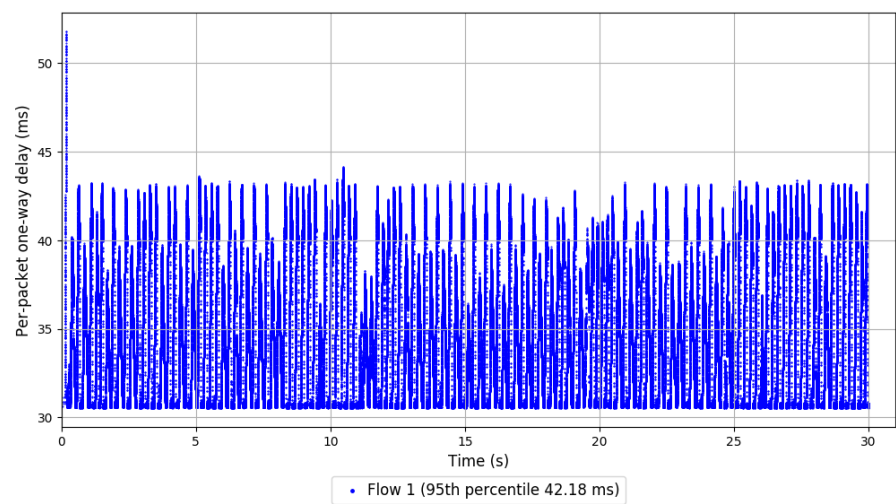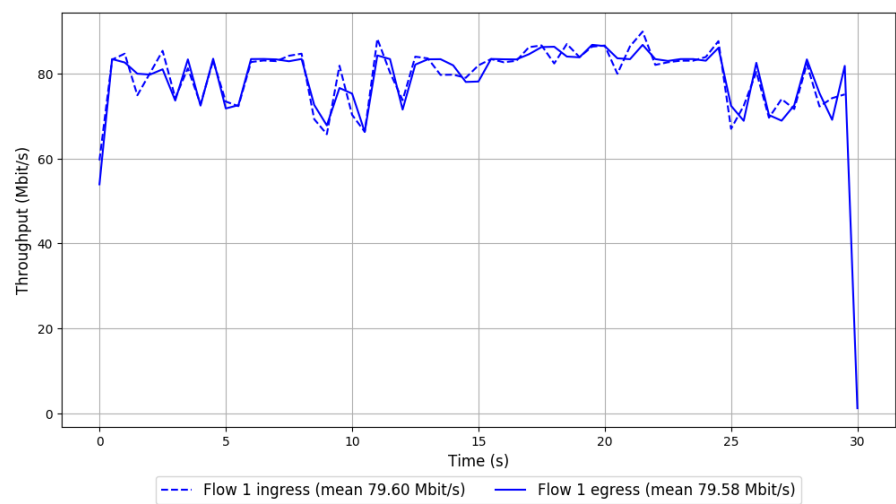Run 10: Report of Sprout — Data Link

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

Start at: 2018-02-02 12:57:07
End at: 2018-02-02 12:57:37
Local clock offset: 0.952 ms
Remote clock offset: 0.257 ms


# Below is generated by plot.py at 2018-02-02 17:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.58 Mbit/s
95th percentile per-packet one-way delay: 42.179 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 79.58 Mbit/s
95th percentile per-packet one-way delay: 42.179 ms
Loss rate: 0.04%
```

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

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

Start at: 2018-02-02 13:21:14
End at: 2018-02-02 13:21:44
Local clock offset: 1.208 ms
Remote clock offset: -0.697 ms


# Below is generated by plot.py at 2018-02-02 17:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 42.550 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 73.17 Mbit/s
95th percentile per-packet one-way delay: 42.550 ms
Loss rate: 0.07%
```
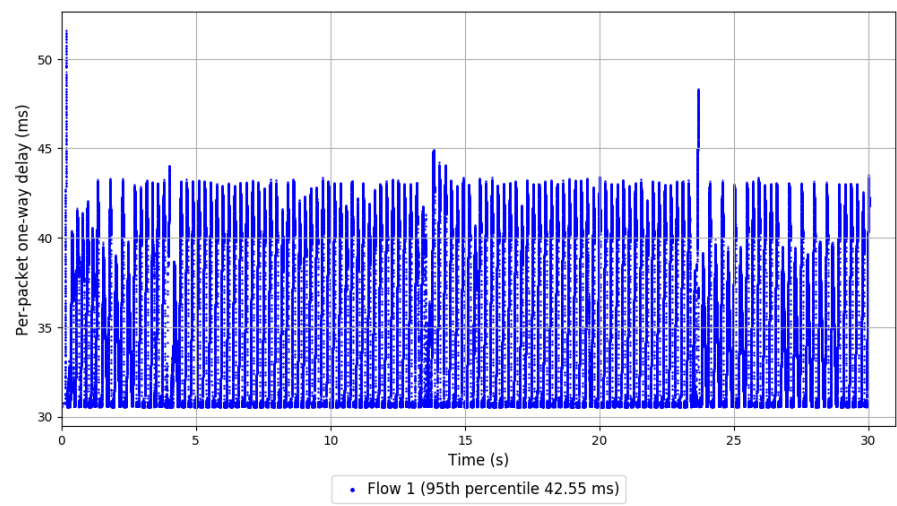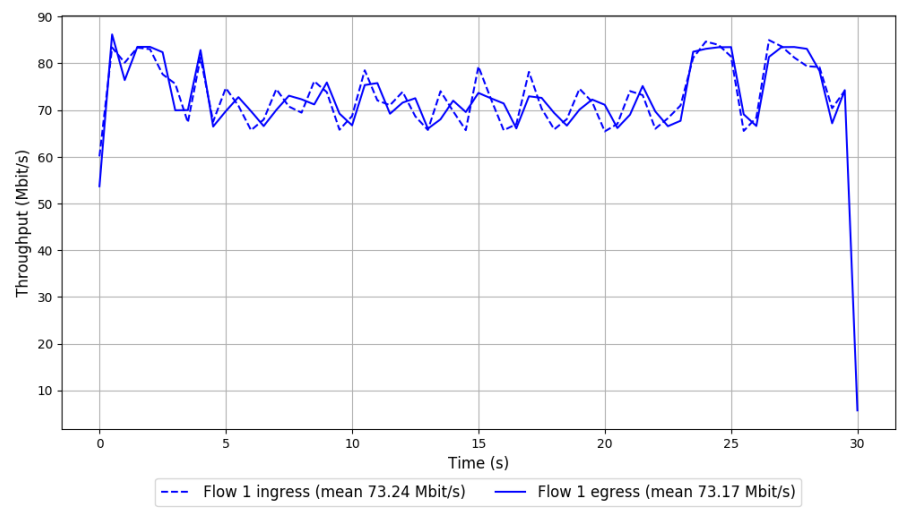
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 73.24 Mbit/s)   Flow 1 egress (mean 73.17 Mbit/s)

Flow 1 (95th percentile 42.55 ms)

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

Start at: 2018-02-02 13:45:35
End at: 2018-02-02 13:46:05
Local clock offset: 1.052 ms
Remote clock offset: -3.187 ms


# Below is generated by plot.py at 2018-02-02 17:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.38 Mbit/s
95th percentile per-packet one-way delay: 39.197 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 78.38 Mbit/s
95th percentile per-packet one-way delay: 39.197 ms
Loss rate: 0.03%
```
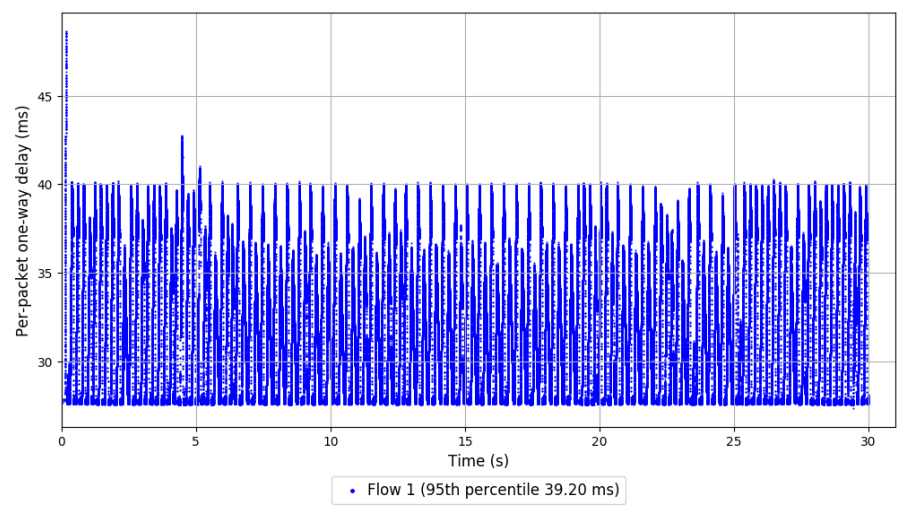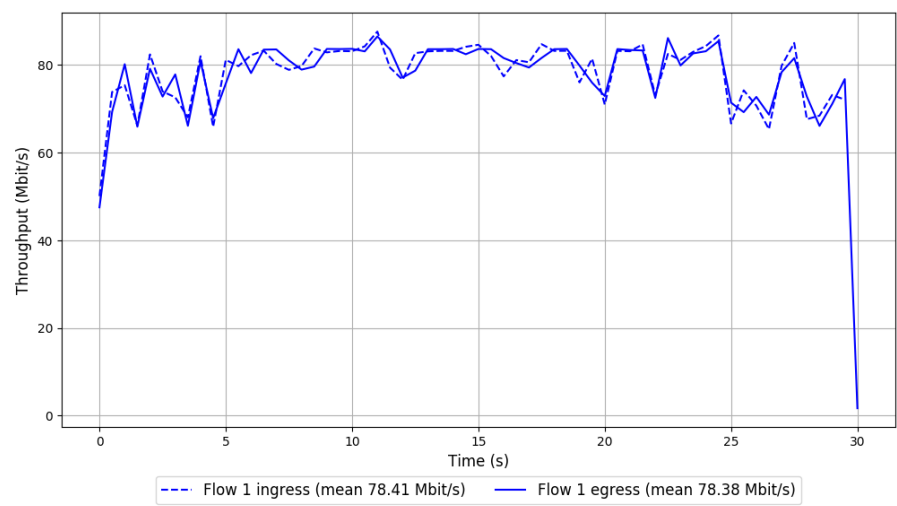
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 78.41 Mbit/s) ----- Flow 1 egress (mean 78.38 Mbit/s) ——

Flow 1 (95th percentile 39.20 ms)

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

Start at: 2018-02-02 14:10:03
End at: 2018-02-02 14:10:33
Local clock offset: 1.095 ms
Remote clock offset: -2.939 ms


# Below is generated by plot.py at 2018-02-02 17:32:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.19 Mbit/s
95th percentile per-packet one-way delay: 40.285 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 76.19 Mbit/s
95th percentile per-packet one-way delay: 40.285 ms
Loss rate: 0.05%
```
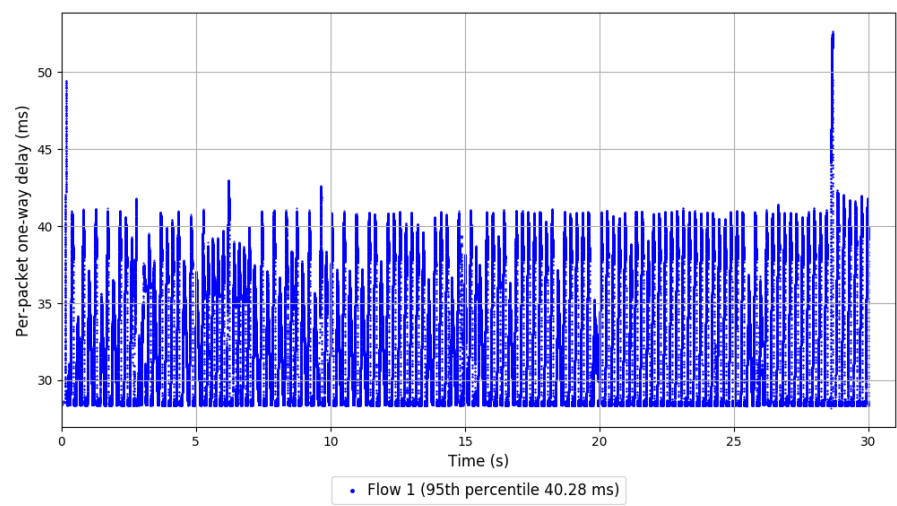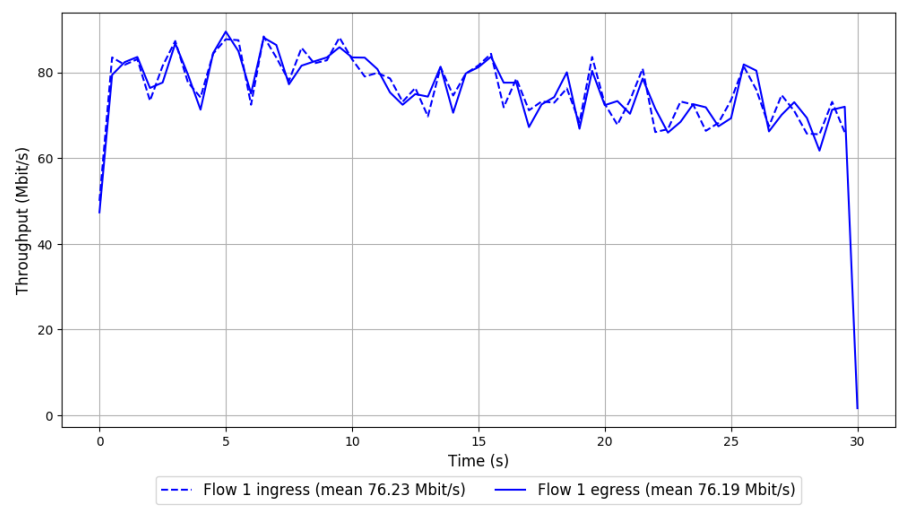
Run 4: Report of TaoVA-100x — Data Link

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

Start at: 2018-02-02 14:34:34
End at: 2018-02-02 14:35:04
Local clock offset: 0.945 ms
Remote clock offset: -1.107 ms


# Below is generated by plot.py at 2018-02-02 17:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.21 Mbit/s
95th percentile per-packet one-way delay: 41.714 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 77.21 Mbit/s
95th percentile per-packet one-way delay: 41.714 ms
Loss rate: 0.09%
```
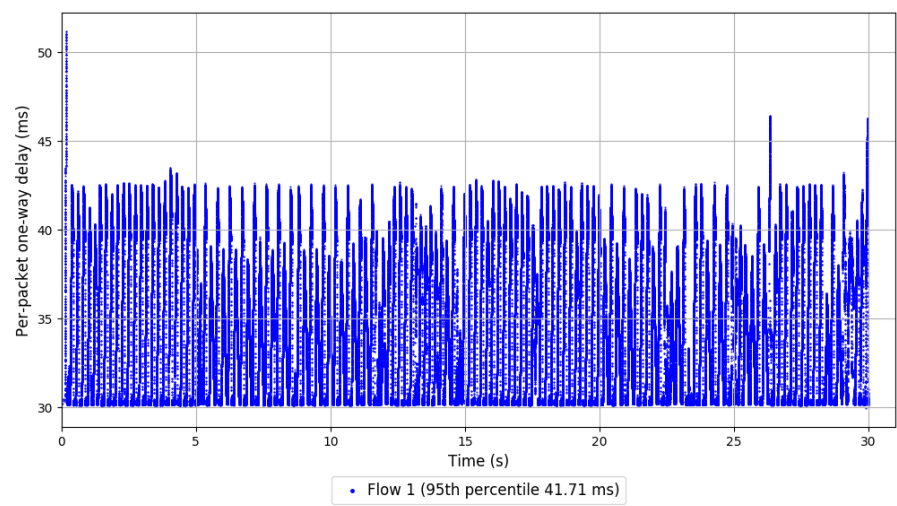
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 77.28 Mbit/s)   Flow 1 egress (mean 77.21 Mbit/s)

Flow 1 (95th percentile 41.71 ms)

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

Start at: 2018-02-02 14:58:53
End at: 2018-02-02 14:59:23
Local clock offset: 0.684 ms
Remote clock offset: -1.785 ms


# Below is generated by plot.py at 2018-02-02 17:32:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.03 Mbit/s
95th percentile per-packet one-way delay: 41.329 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 77.03 Mbit/s
95th percentile per-packet one-way delay: 41.329 ms
Loss rate: 0.08%
```
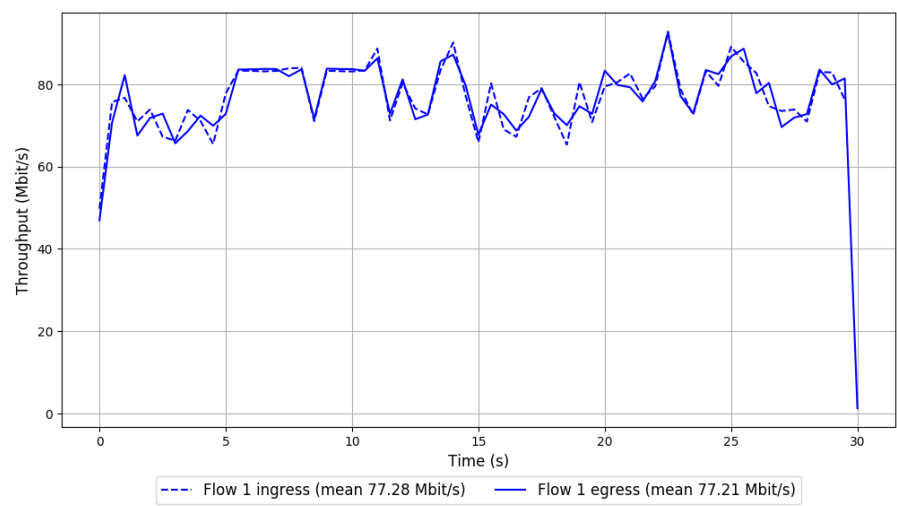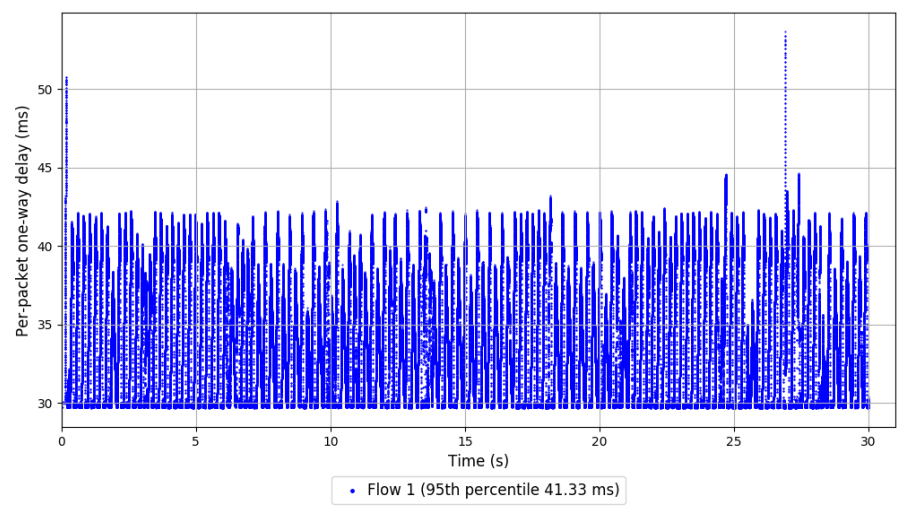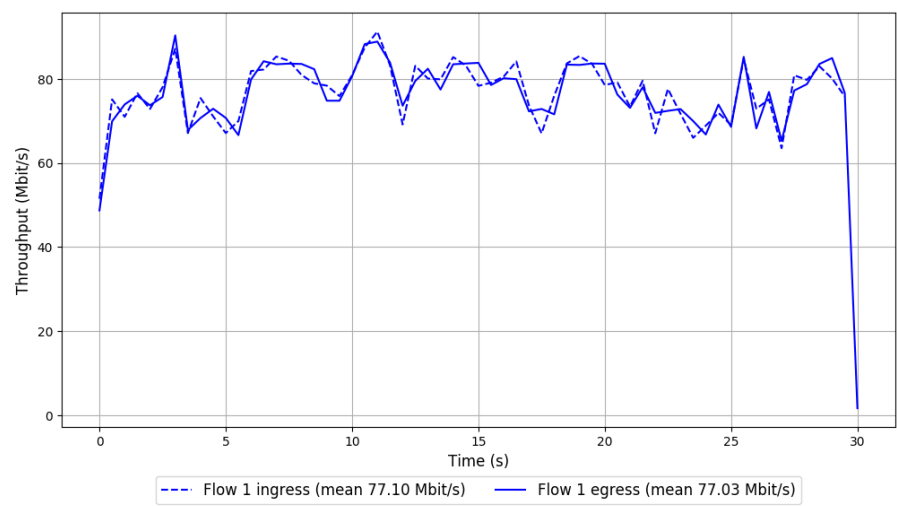
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 77.10 Mbit/s)   Flow 1 egress (mean 77.03 Mbit/s)

Flow 1 (95th percentile 41.33 ms)

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

Start at: 2018-02-02 15:23:36
End at: 2018-02-02 15:24:06
Local clock offset: 0.366 ms
Remote clock offset: -1.544 ms


# Below is generated by plot.py at 2018-02-02 17:32:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 42.816 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 42.816 ms
Loss rate: 0.13%
```
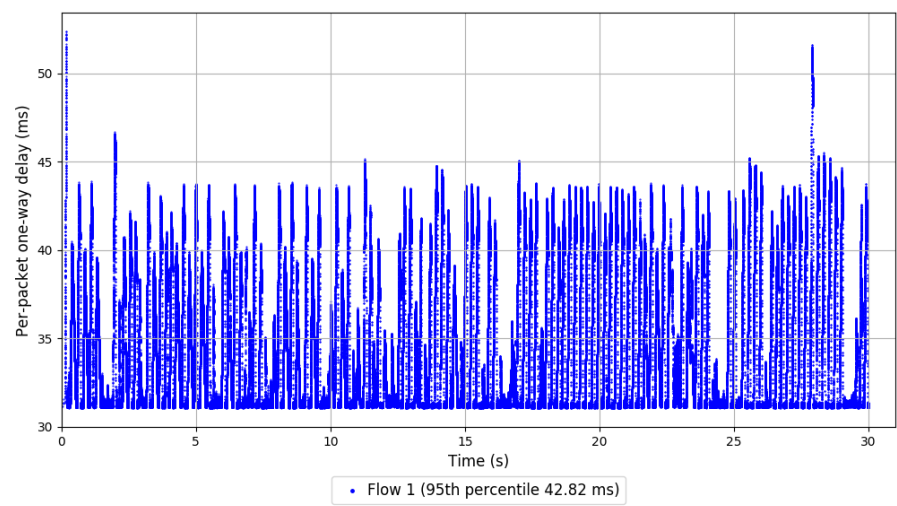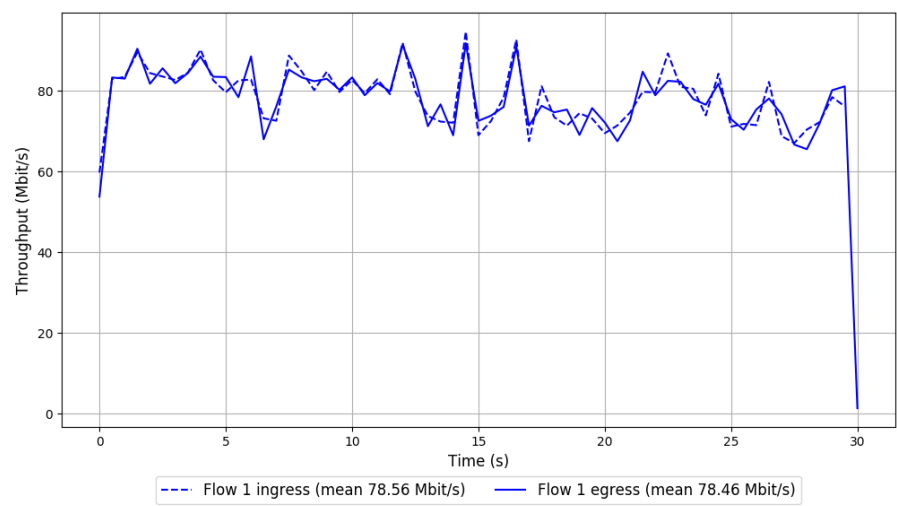
Run 7: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 78.56 Mbit/s) ----- Flow 1 egress (mean 78.46 Mbit/s) ———

· Flow 1 (95th percentile 42.82 ms)

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

Start at: 2018-02-02 15:49:02
End at: 2018-02-02 15:49:32
Local clock offset: 0.172 ms
Remote clock offset: -4.636 ms


# Below is generated by plot.py at 2018-02-02 17:32:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 38.596 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 38.596 ms
Loss rate: 0.17%
```
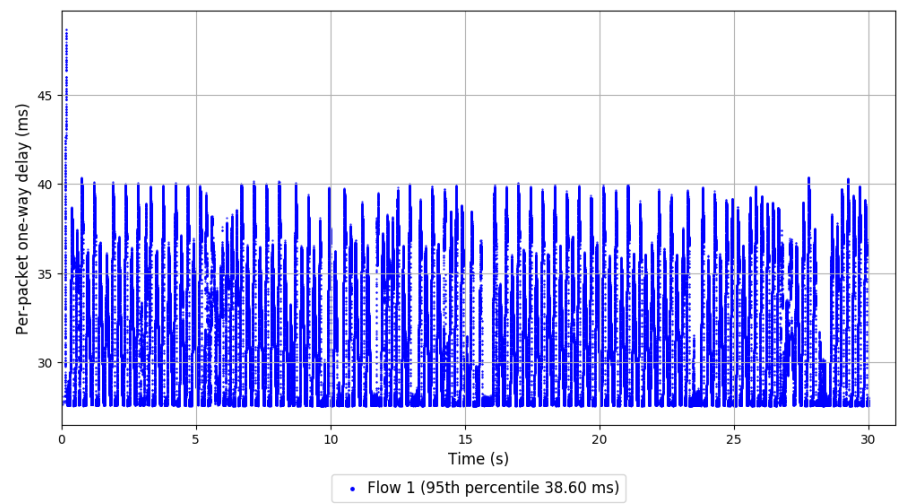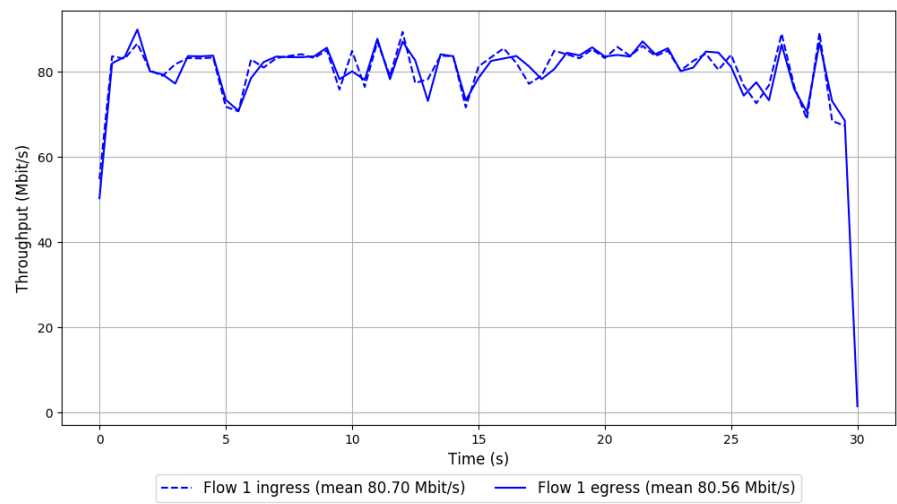
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 80.70 Mbit/s)   Flow 1 egress (mean 80.56 Mbit/s)

Flow 1 (95th percentile 38.60 ms)

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

Start at: 2018-02-02 16:13:37
End at: 2018-02-02 16:14:07
Local clock offset: 0.043 ms
Remote clock offset: -2.621 ms


# Below is generated by plot.py at 2018-02-02 17:34:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.04 Mbit/s
95th percentile per-packet one-way delay: 41.352 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 76.04 Mbit/s
95th percentile per-packet one-way delay: 41.352 ms
Loss rate: 0.15%
```
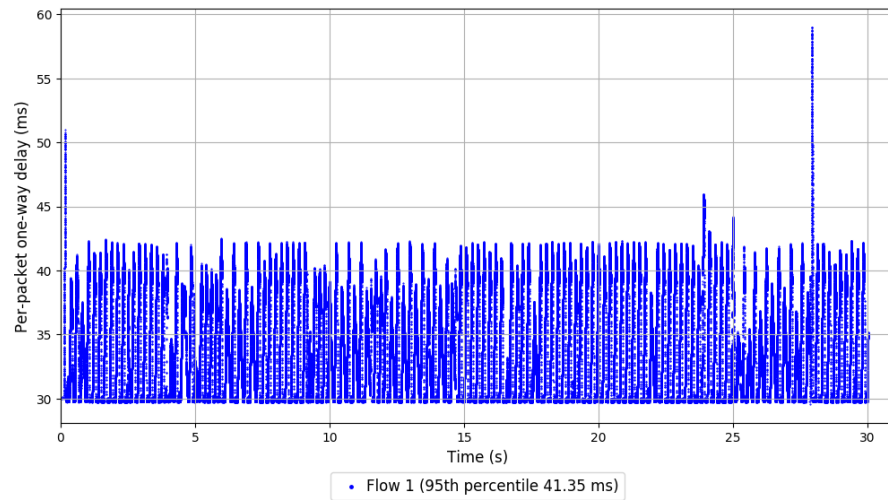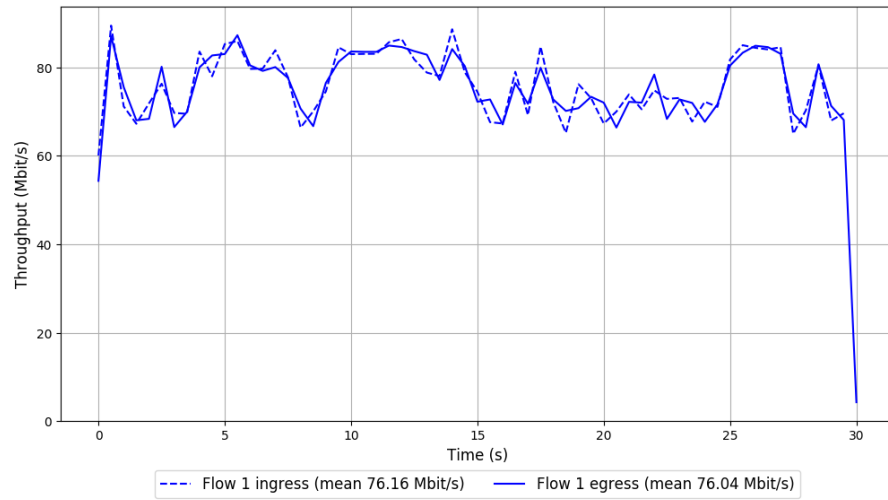
Run 9: Report of TaoVA-100x — Data Link

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

Start at: 2018-02-02 16:37:44
End at: 2018-02-02 16:38:14
Local clock offset: -0.137 ms
Remote clock offset: -2.479 ms


# Below is generated by plot.py at 2018-02-02 17:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.26 Mbit/s
95th percentile per-packet one-way delay: 42.784 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.26 Mbit/s
95th percentile per-packet one-way delay: 42.784 ms
Loss rate: 0.00%
```
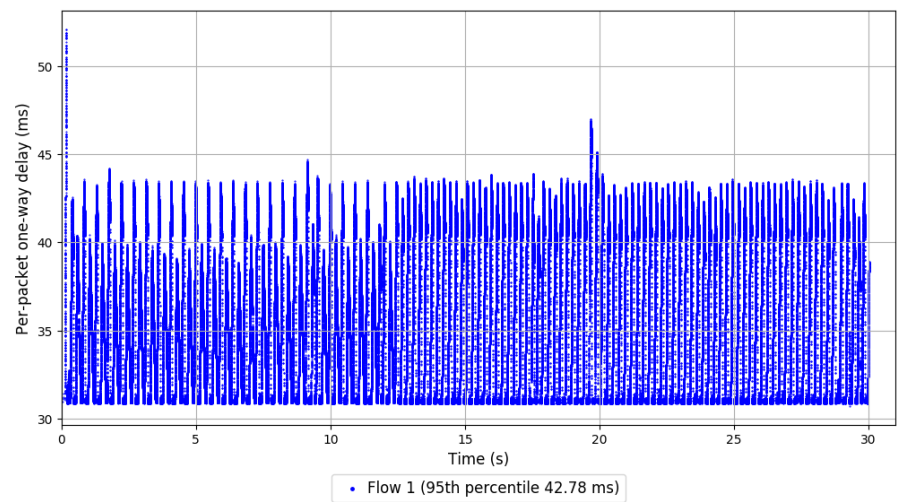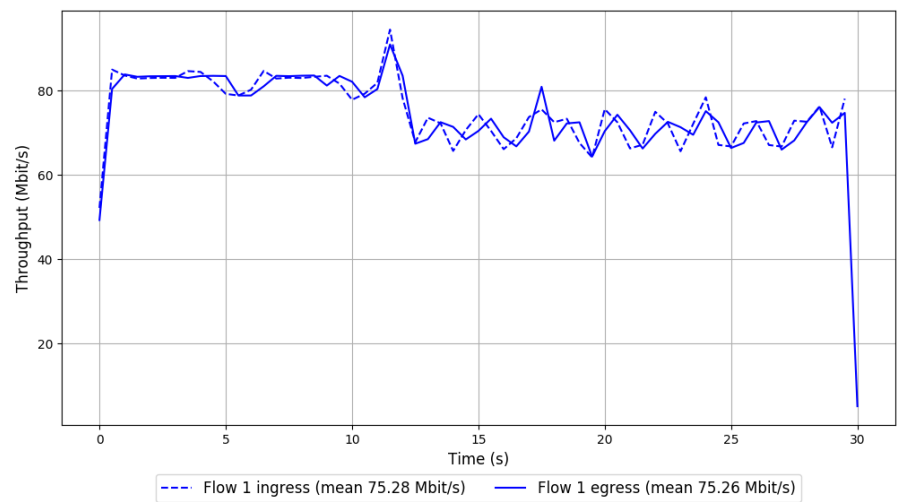
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 75.28 Mbit/s) — — — Flow 1 egress (mean 75.26 Mbit/s)

• Flow 1 (95th percentile 42.78 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2018-02-02 12:52:59
End at: 2018-02-02 12:53:29
Local clock offset: 0.999 ms
Remote clock offset: 0.079 ms


# Below is generated by plot.py at 2018-02-02 17:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 50.257 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 50.257 ms
Loss rate: 0.27%
```
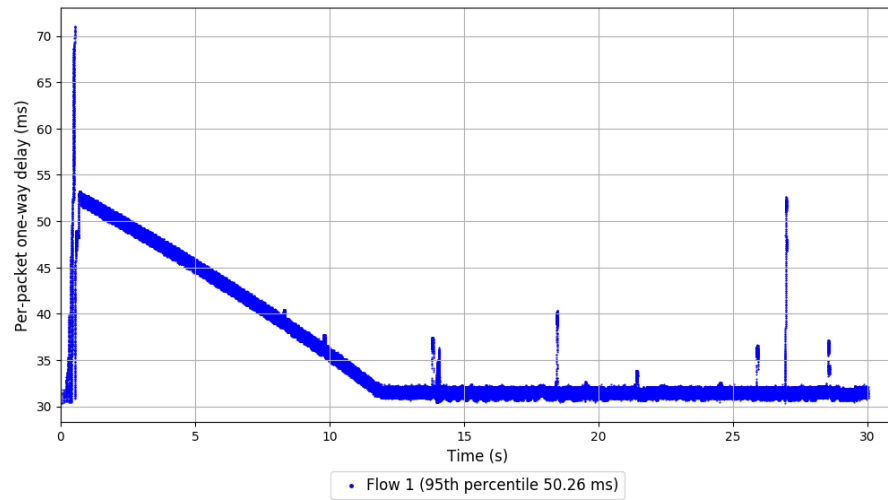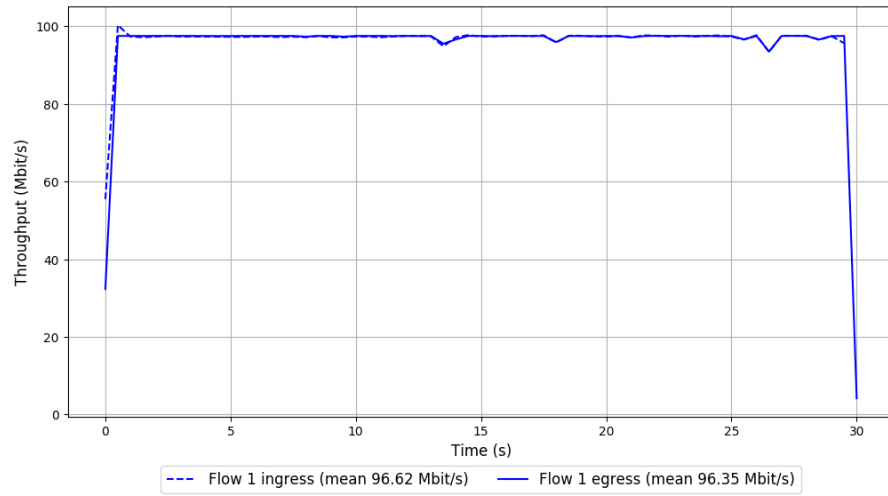
Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.62 Mbit/s) — Flow 1 egress (mean 96.35 Mbit/s)
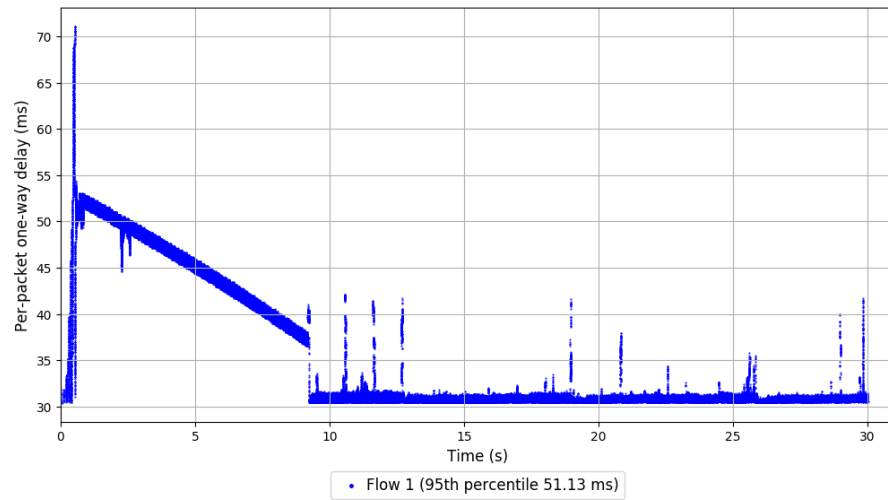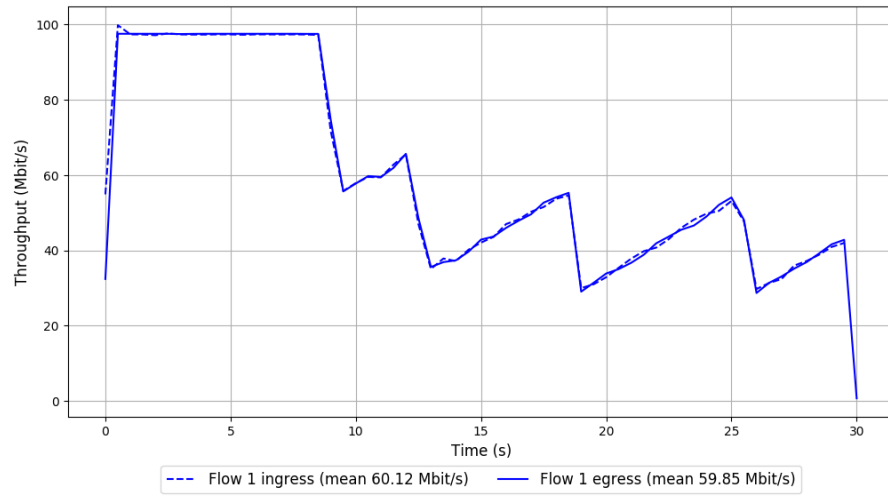

• Flow 1 (95th percentile 50.26 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2018-02-02 13:17:08
End at: 2018-02-02 13:17:38
Local clock offset: 1.232 ms
Remote clock offset: -0.637 ms


# Below is generated by plot.py at 2018-02-02 17:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.85 Mbit/s
95th percentile per-packet one-way delay: 51.128 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 59.85 Mbit/s
95th percentile per-packet one-way delay: 51.128 ms
Loss rate: 0.46%
```
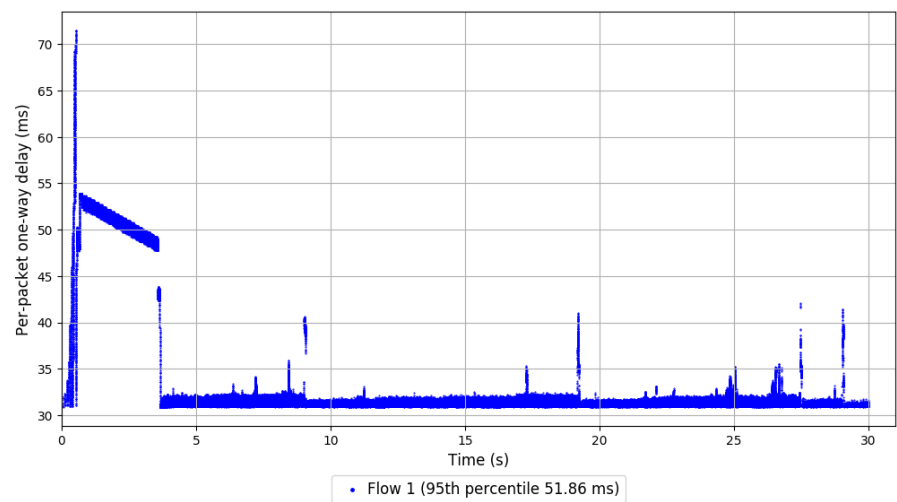
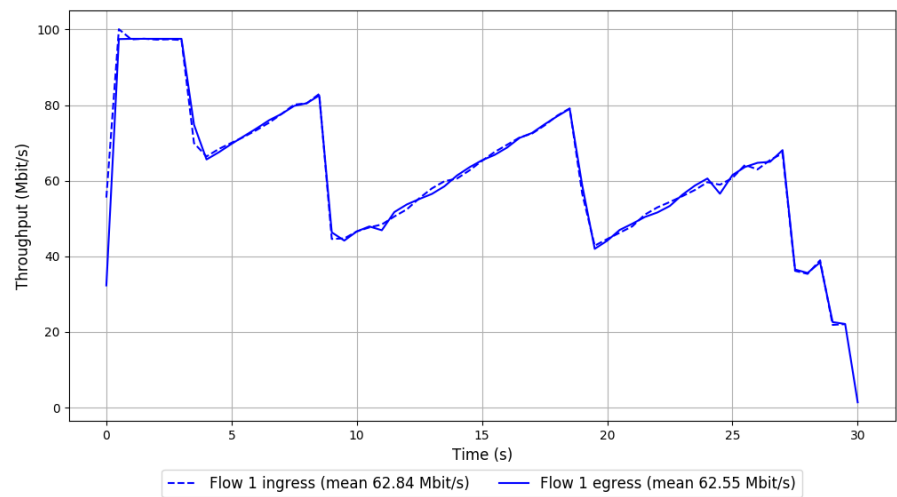Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-02-02 13:41:20
End at: 2018-02-02 13:41:50
Local clock offset: 1.03 ms
Remote clock offset: -0.599 ms


# Below is generated by plot.py at 2018-02-02 17:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.55 Mbit/s
95th percentile per-packet one-way delay: 51.858 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 62.55 Mbit/s
95th percentile per-packet one-way delay: 51.858 ms
Loss rate: 0.47%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 62.84 Mbit/s)   Flow 1 egress (mean 62.55 Mbit/s)
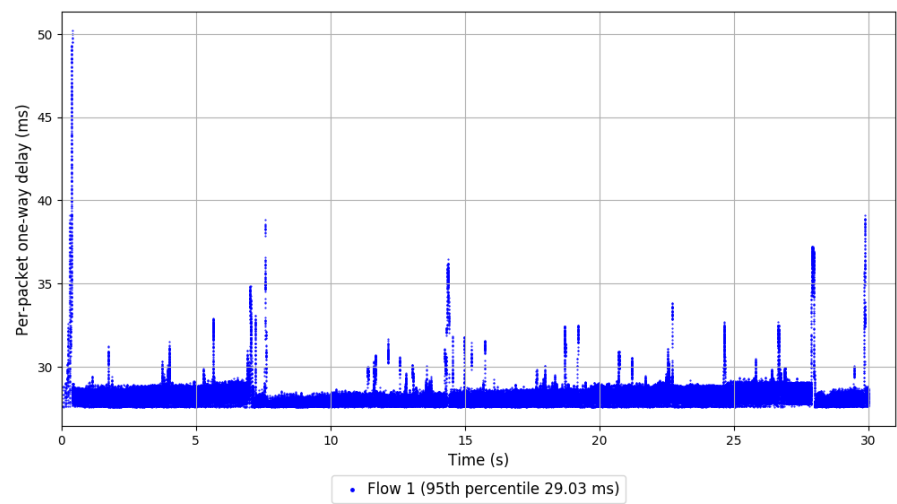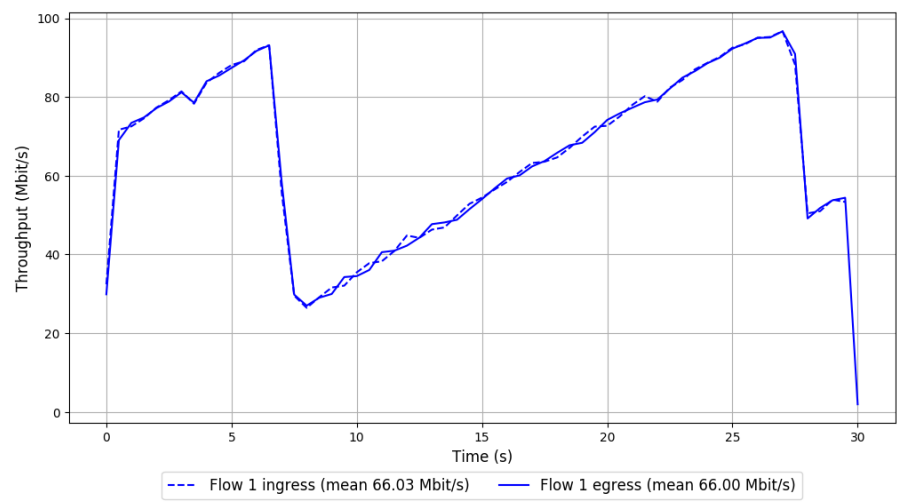

Flow 1 (95th percentile 51.86 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2018-02-02 14:05:55
End at: 2018-02-02 14:06:25
Local clock offset: 1.208 ms
Remote clock offset: -2.959 ms


# Below is generated by plot.py at 2018-02-02 17:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.00 Mbit/s
95th percentile per-packet one-way delay: 29.034 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 66.00 Mbit/s
95th percentile per-packet one-way delay: 29.034 ms
Loss rate: 0.04%
```

Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 66.03 Mbit/s)   Flow 1 egress (mean 66.00 Mbit/s)

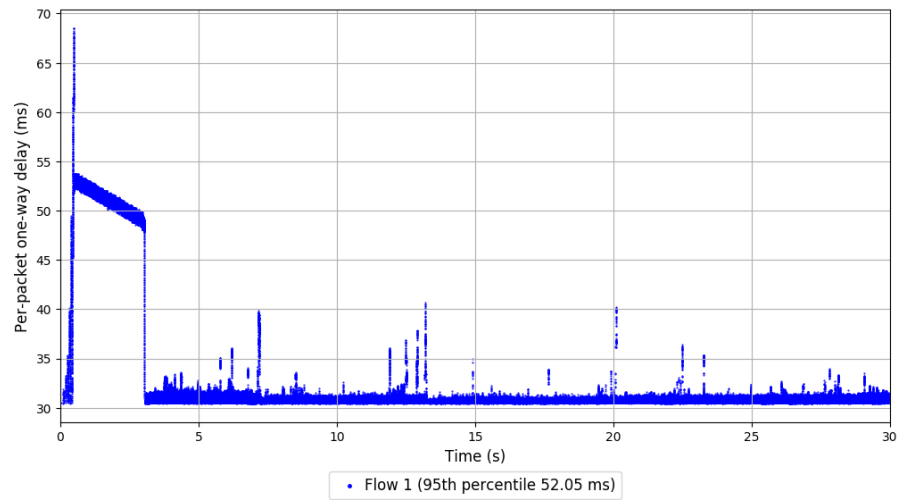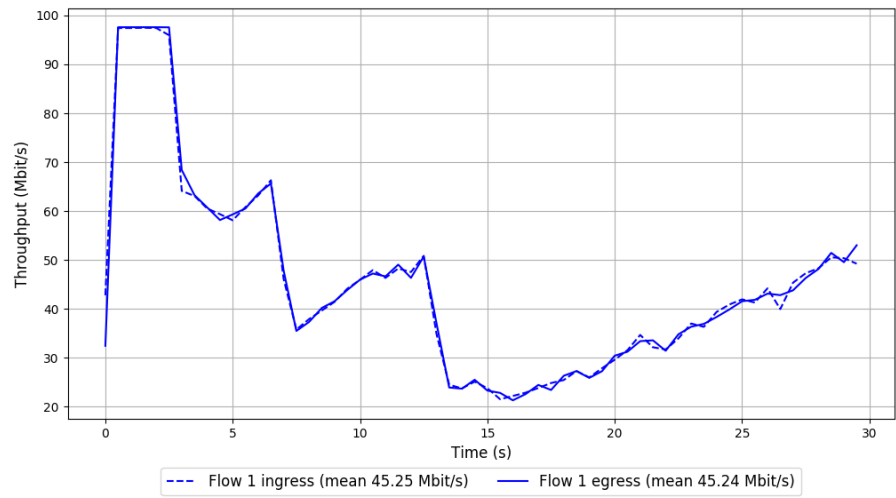Flow 1 (95th percentile 29.03 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2018-02-02 14:30:17
End at: 2018-02-02 14:30:47
Local clock offset: 0.962 ms
Remote clock offset: -1.361 ms


# Below is generated by plot.py at 2018-02-02 17:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.24 Mbit/s
95th percentile per-packet one-way delay: 52.050 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 45.24 Mbit/s
95th percentile per-packet one-way delay: 52.050 ms
Loss rate: 0.02%
```
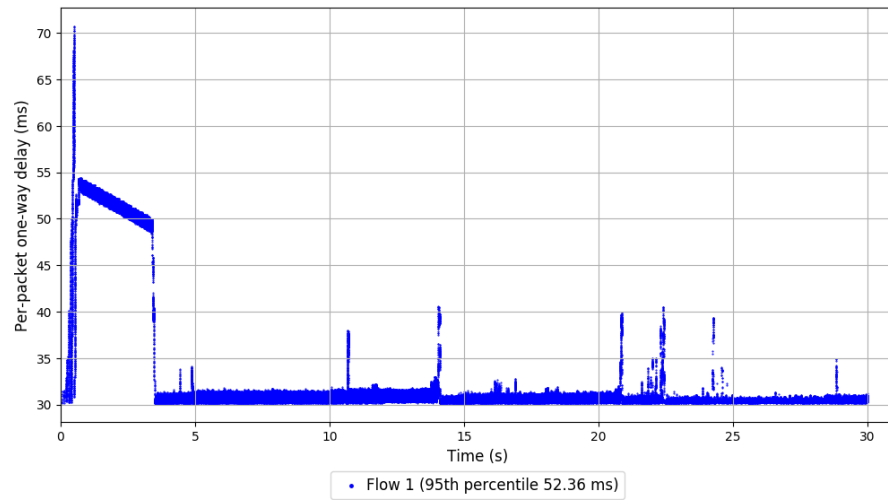
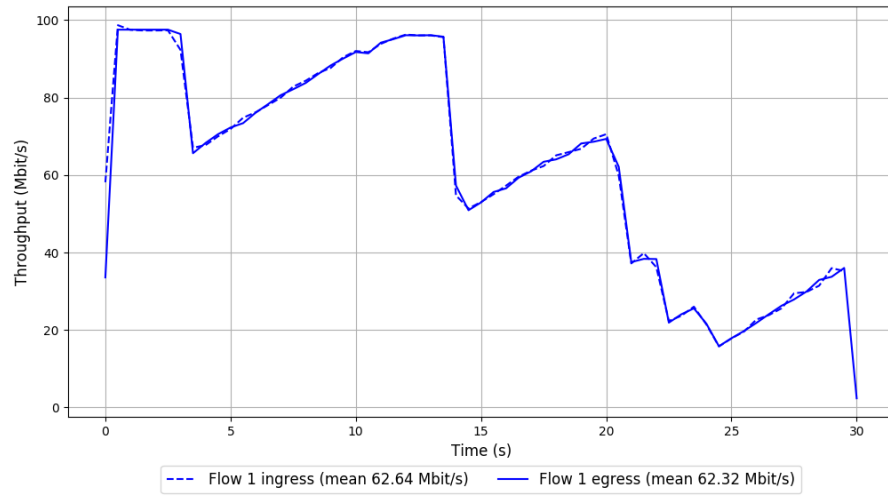Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2018-02-02 14:54:45
End at: 2018-02-02 14:55:15
Local clock offset: 0.753 ms
Remote clock offset: -1.241 ms


# Below is generated by plot.py at 2018-02-02 17:34:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.32 Mbit/s
95th percentile per-packet one-way delay: 52.356 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 62.32 Mbit/s
95th percentile per-packet one-way delay: 52.356 ms
Loss rate: 0.50%
```

Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 62.64 Mbit/s)   Flow 1 egress (mean 62.32 Mbit/s)
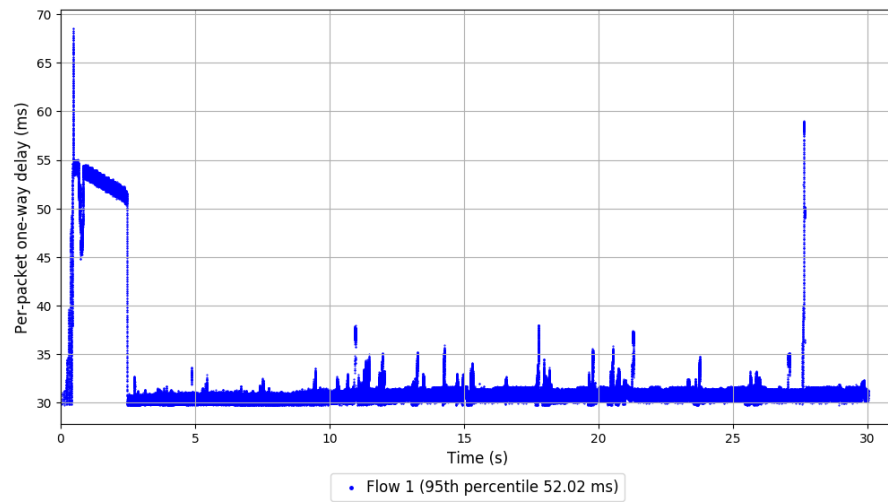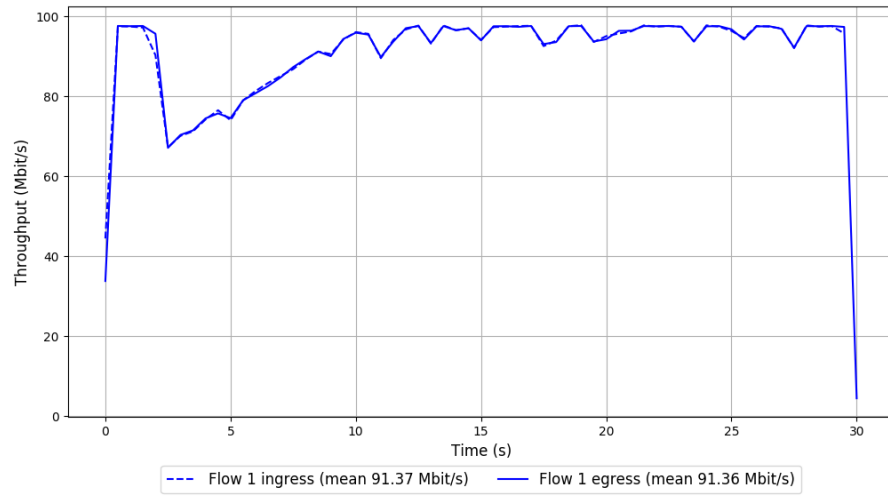

Flow 1 (95th percentile 52.36 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-02-02 15:19:20
End at: 2018-02-02 15:19:50
Local clock offset: 0.399 ms
Remote clock offset: -2.085 ms


# Below is generated by plot.py at 2018-02-02 17:34:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 52.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 52.017 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 91.37 Mbit/s)   Flow 1 egress (mean 91.36 Mbit/s)

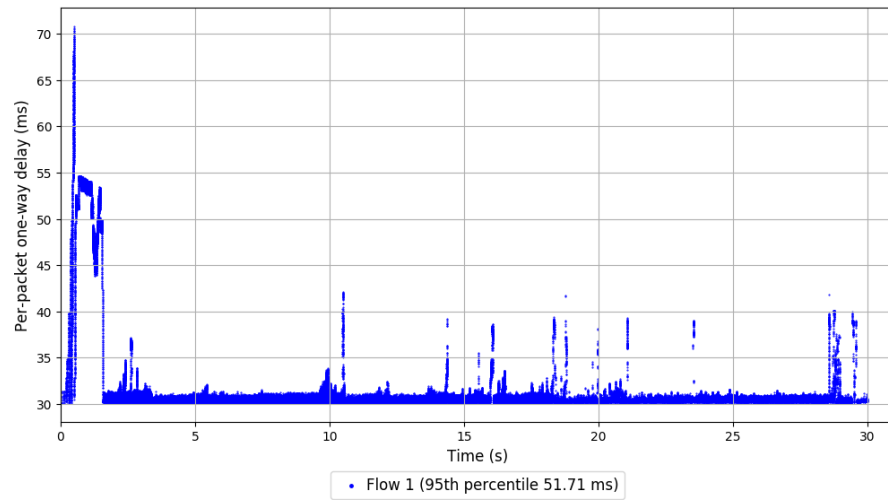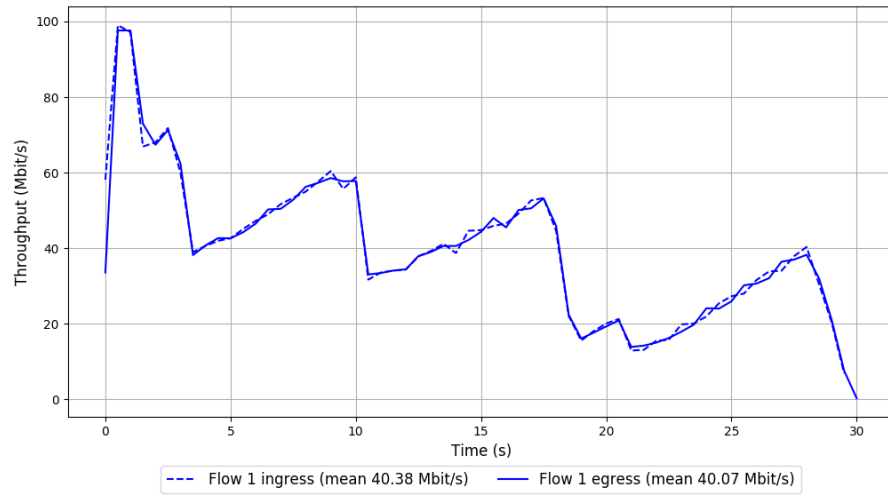

Flow 1 (95th percentile 52.02 ms)

```
Run 8: Statistics of TCP Vegas

Start at: 2018-02-02 15:44:48
End at: 2018-02-02 15:45:18
Local clock offset: 0.245 ms
Remote clock offset: -2.043 ms


# Below is generated by plot.py at 2018-02-02 17:34:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 51.709 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 40.07 Mbit/s
95th percentile per-packet one-way delay: 51.709 ms
Loss rate: 0.77%
```

Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 40.38 Mbit/s)   Flow 1 egress (mean 40.07 Mbit/s)

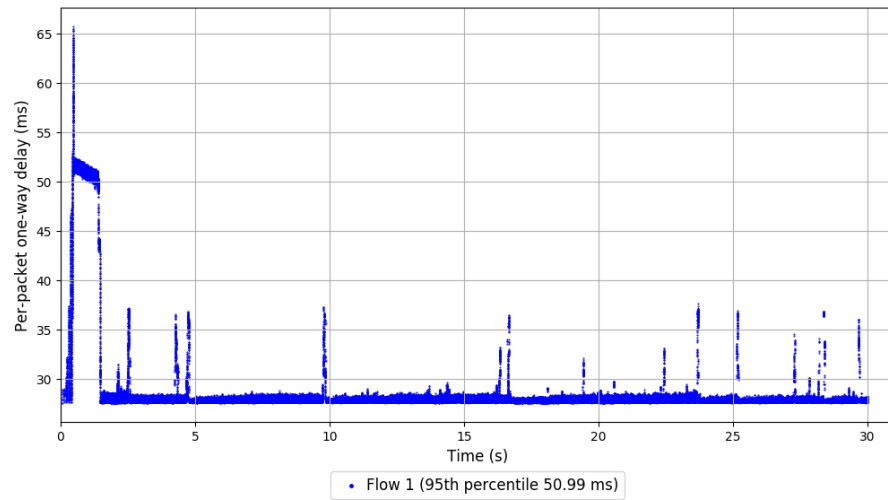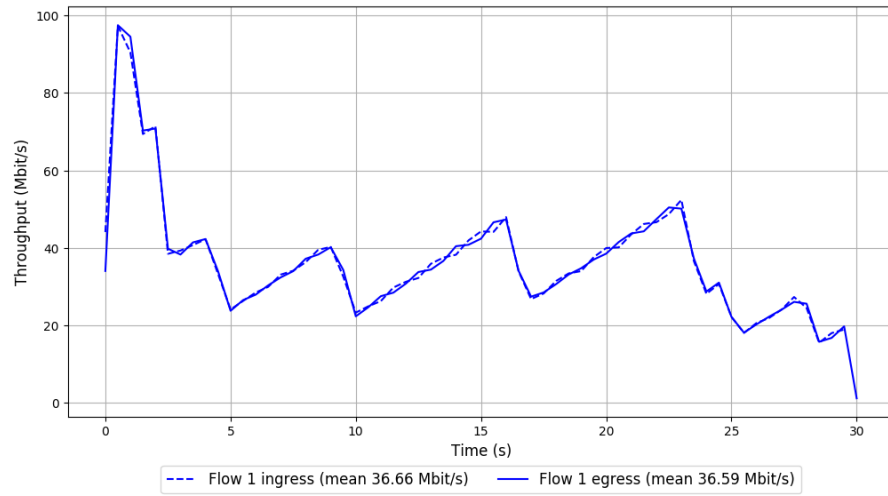

Flow 1 (95th percentile 51.71 ms)

```
Run 9: Statistics of TCP Vegas

Start at: 2018-02-02 16:09:38
End at: 2018-02-02 16:10:08
Local clock offset: 0.08 ms
Remote clock offset: -4.608 ms


# Below is generated by plot.py at 2018-02-02 17:34:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.18%
```
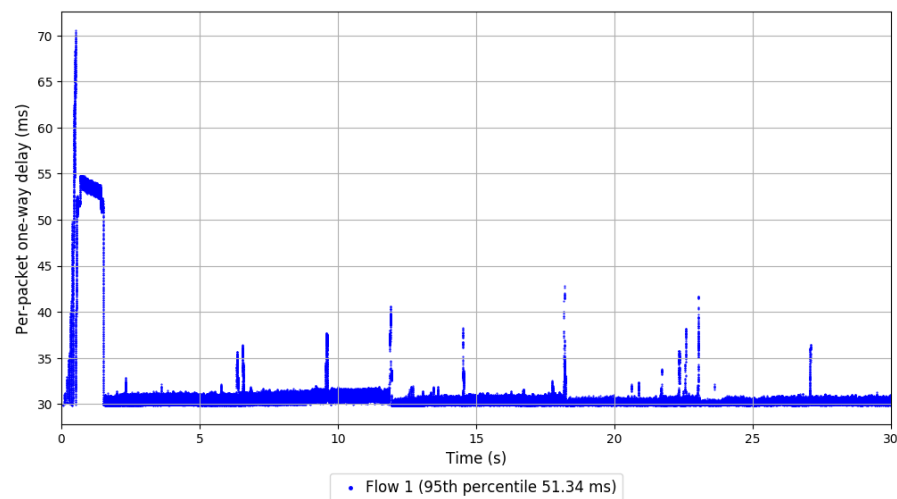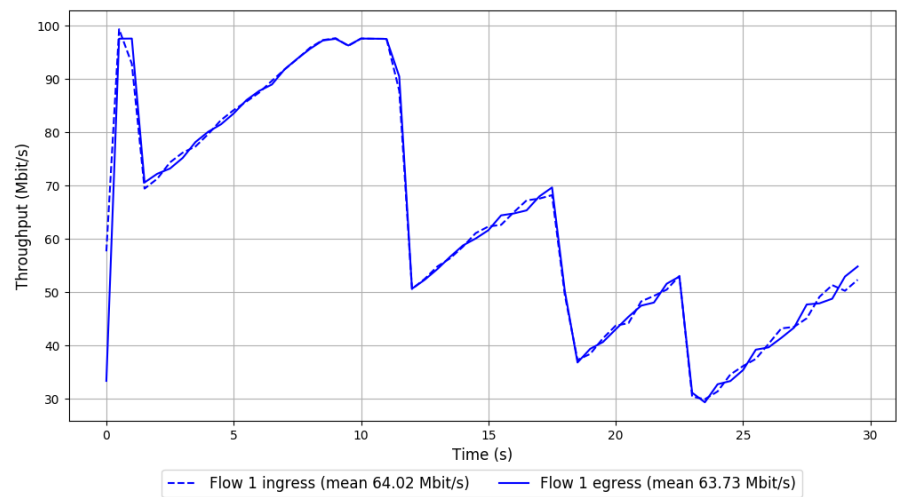
Run 9: Report of TCP Vegas — Data Link

```
Run 10: Statistics of TCP Vegas

Start at: 2018-02-02 16:33:41
End at: 2018-02-02 16:34:11
Local clock offset: -0.197 ms
Remote clock offset: -2.817 ms


# Below is generated by plot.py at 2018-02-02 17:34:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.73 Mbit/s
95th percentile per-packet one-way delay: 51.339 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 63.73 Mbit/s
95th percentile per-packet one-way delay: 51.339 ms
Loss rate: 0.44%
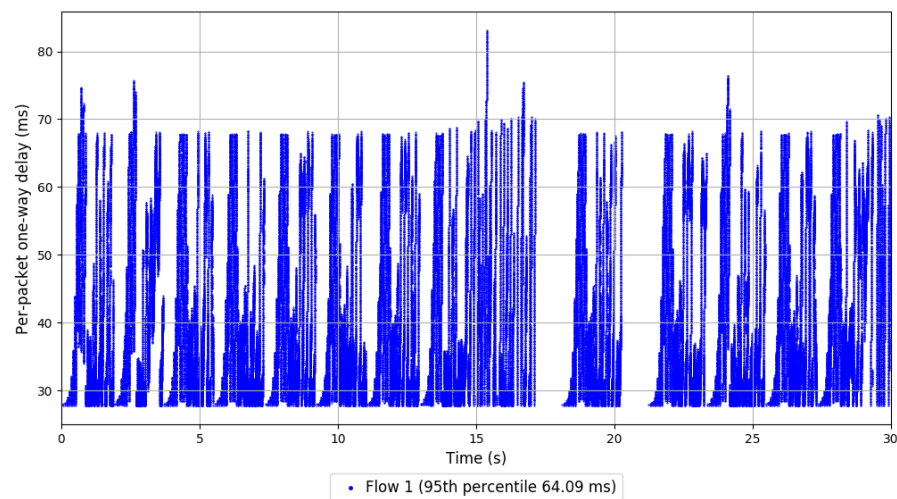```
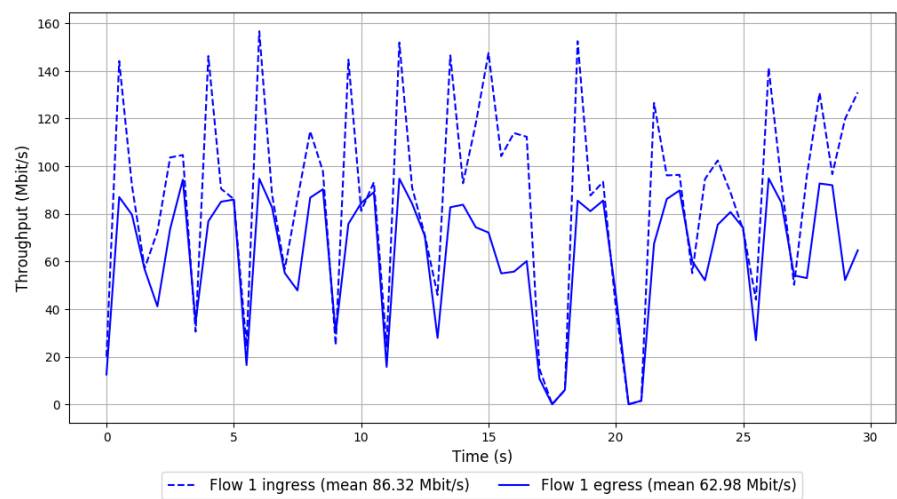
Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2018-02-02 12:51:37
End at: 2018-02-02 12:52:07
Local clock offset: 0.898 ms
Remote clock offset: -1.917 ms


# Below is generated by plot.py at 2018-02-02 17:34:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 64.095 ms
Loss rate: 26.95%
-- Flow 1:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 64.095 ms
Loss rate: 26.95%
```

Run 1: Report of Verus — Data Link

Flow 1 ingress (mean 86.32 Mbit/s)   Flow 1 egress (mean 62.98 Mbit/s)

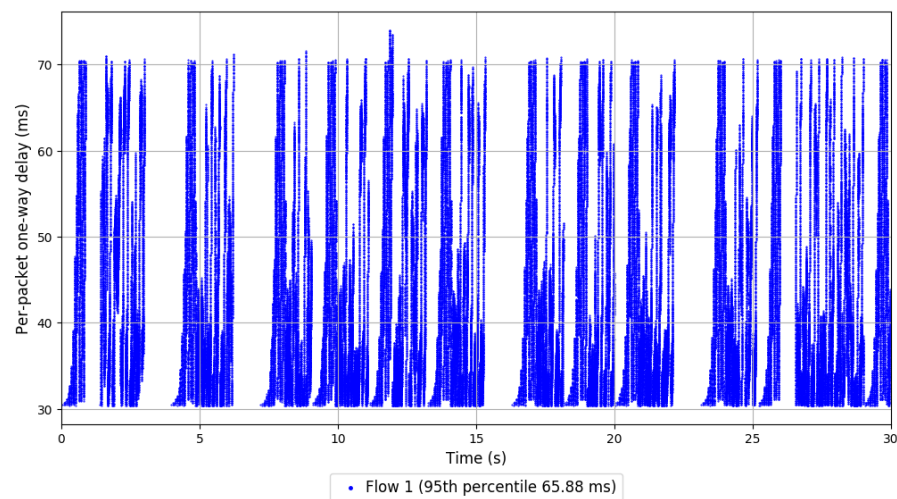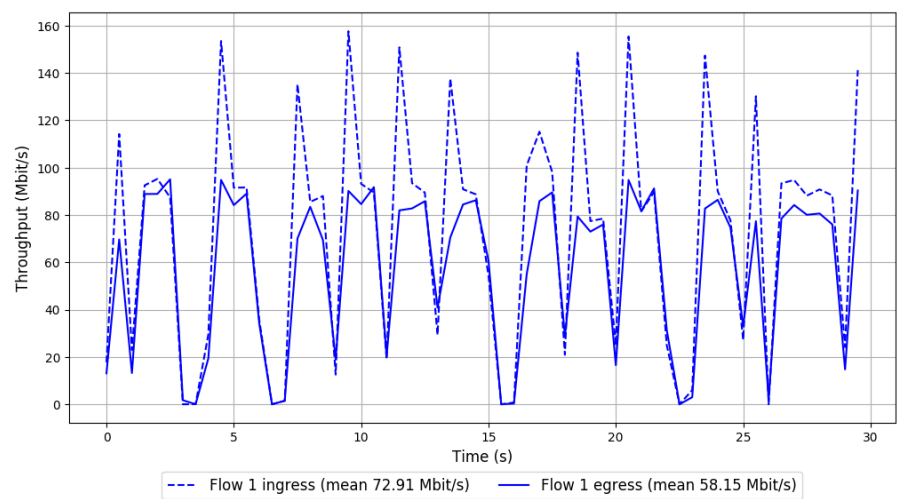Flow 1 (95th percentile 64.09 ms)

```
Run 2: Statistics of Verus

Start at: 2018-02-02 13:15:49
End at: 2018-02-02 13:16:19
Local clock offset: 1.273 ms
Remote clock offset: -0.585 ms

# Below is generated by plot.py at 2018-02-02 17:34:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.15 Mbit/s
95th percentile per-packet one-way delay: 65.878 ms
Loss rate: 20.21%
-- Flow 1:
Average throughput: 58.15 Mbit/s
95th percentile per-packet one-way delay: 65.878 ms
Loss rate: 20.21%
```

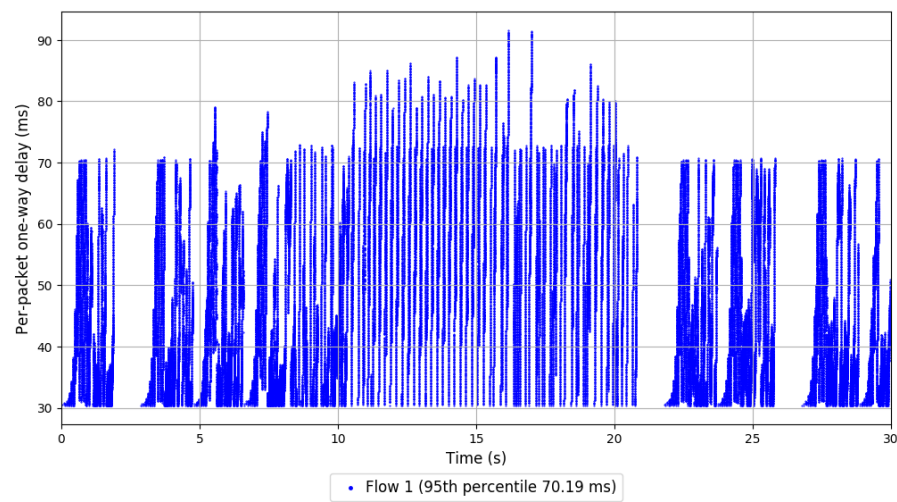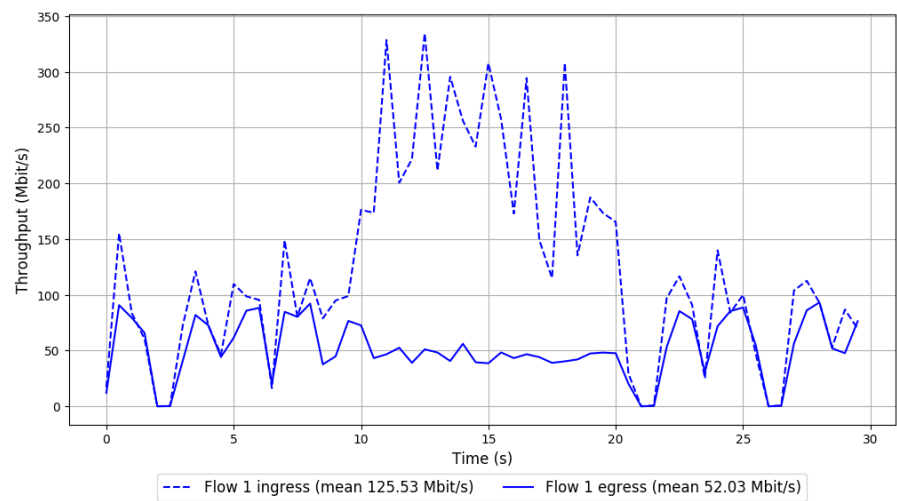Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2018-02-02 13:39:59
End at: 2018-02-02 13:40:29
Local clock offset: 1.006 ms
Remote clock offset: -1.139 ms


# Below is generated by plot.py at 2018-02-02 17:34:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 70.186 ms
Loss rate: 58.53%
-- Flow 1:
Average throughput: 52.03 Mbit/s
95th percentile per-packet one-way delay: 70.186 ms
Loss rate: 58.53%
```
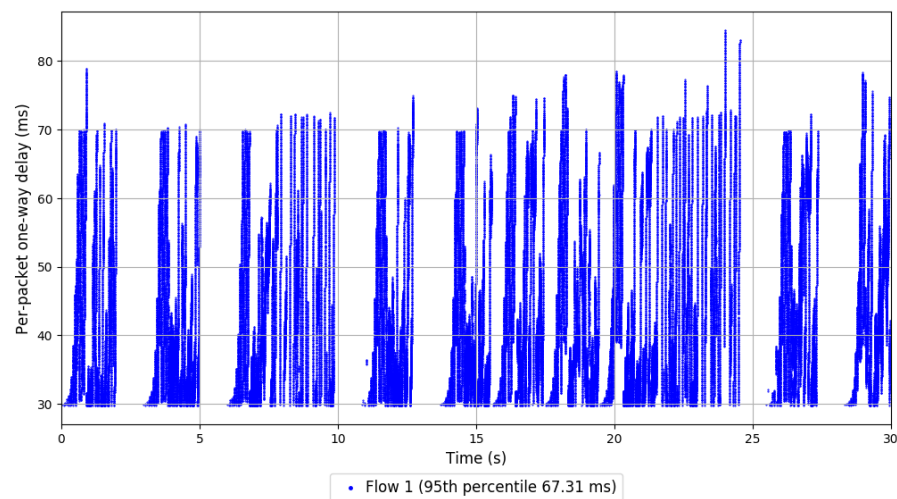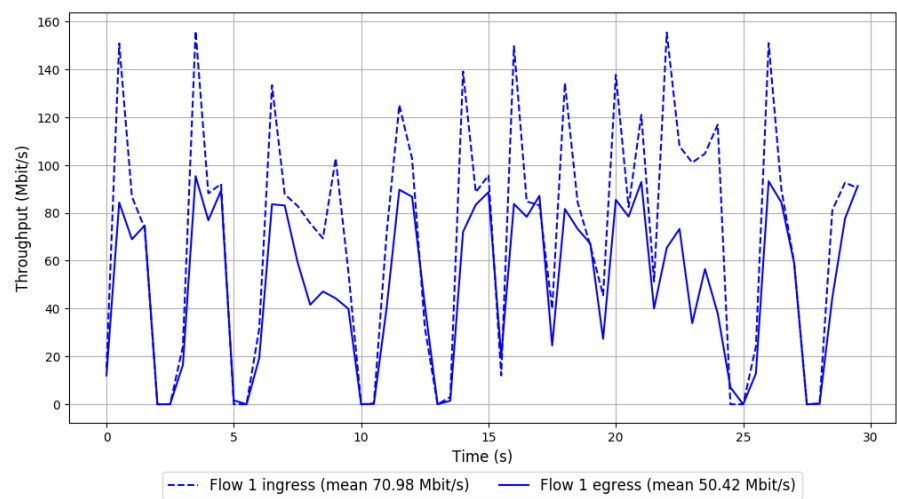
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-02-02 14:04:33
End at: 2018-02-02 14:05:03
Local clock offset: 1.209 ms
Remote clock offset: -0.781 ms


# Below is generated by plot.py at 2018-02-02 17:34:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.42 Mbit/s
95th percentile per-packet one-way delay: 67.309 ms
Loss rate: 28.96%
-- Flow 1:
Average throughput: 50.42 Mbit/s
95th percentile per-packet one-way delay: 67.309 ms
Loss rate: 28.96%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 70.98 Mbit/s) --- Flow 1 egress (mean 50.42 Mbit/s)
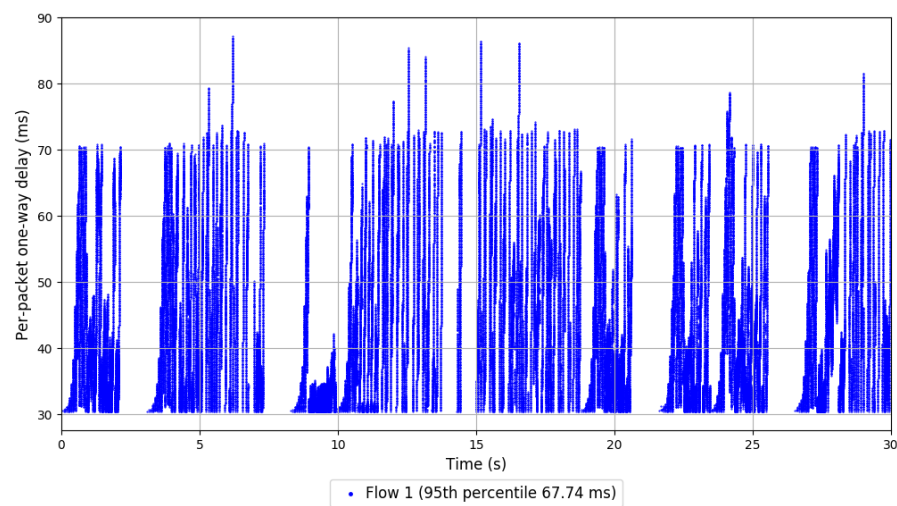
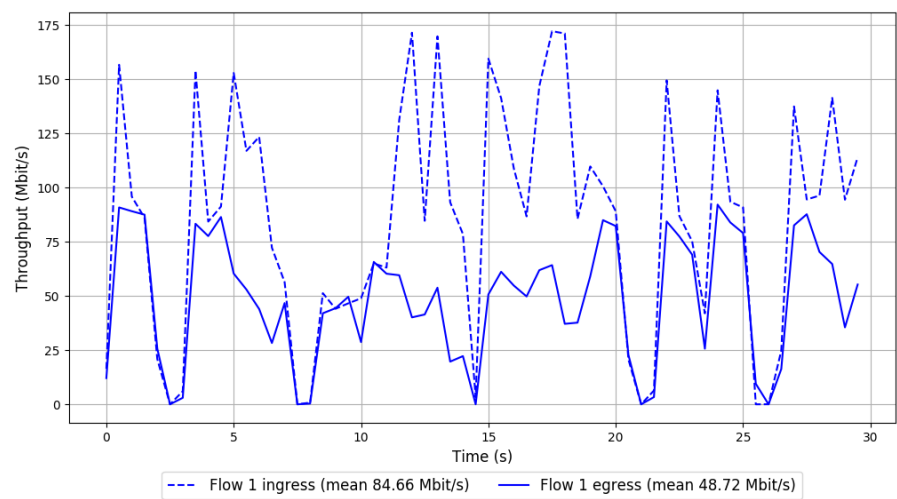

• Flow 1 (95th percentile 67.31 ms)

```
Run 5: Statistics of Verus

Start at: 2018-02-02 14:28:56
End at: 2018-02-02 14:29:26
Local clock offset: 0.966 ms
Remote clock offset: -1.404 ms


# Below is generated by plot.py at 2018-02-02 17:35:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.72 Mbit/s
95th percentile per-packet one-way delay: 67.736 ms
Loss rate: 42.42%
-- Flow 1:
Average throughput: 48.72 Mbit/s
95th percentile per-packet one-way delay: 67.736 ms
Loss rate: 42.42%
```
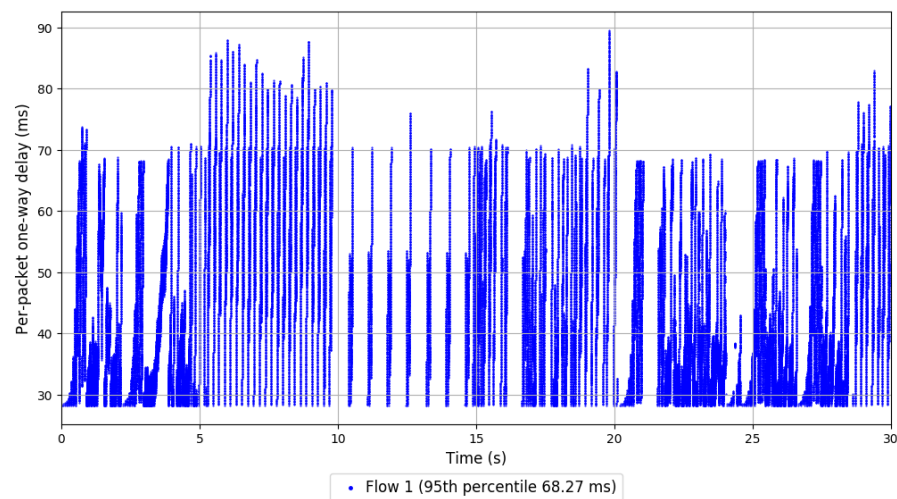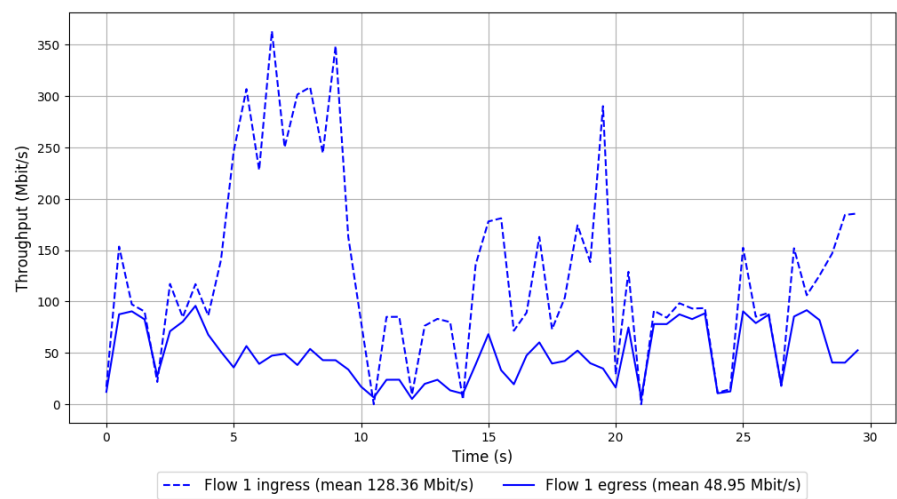
Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2018-02-02 14:53:24
End at: 2018-02-02 14:53:54
Local clock offset: 0.771 ms
Remote clock offset: -3.852 ms


# Below is generated by plot.py at 2018-02-02 17:35:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.95 Mbit/s
95th percentile per-packet one-way delay: 68.266 ms
Loss rate: 61.81%
-- Flow 1:
Average throughput: 48.95 Mbit/s
95th percentile per-packet one-way delay: 68.266 ms
Loss rate: 61.81%
```
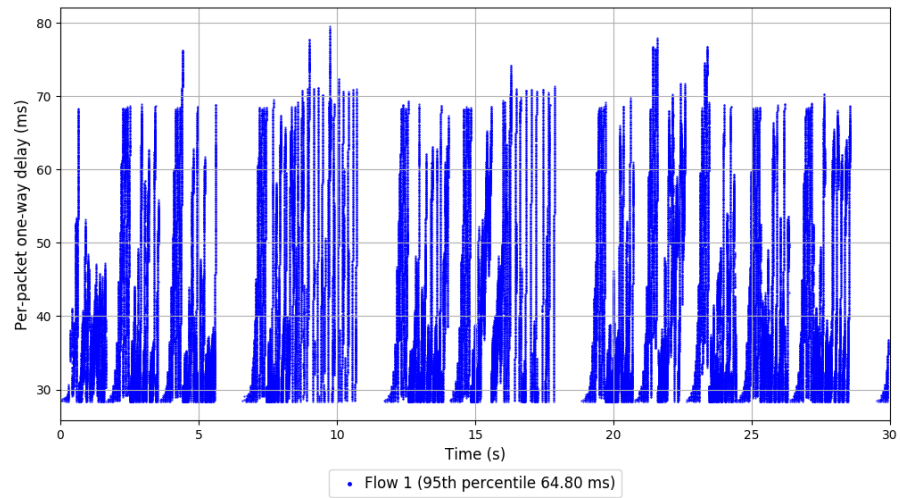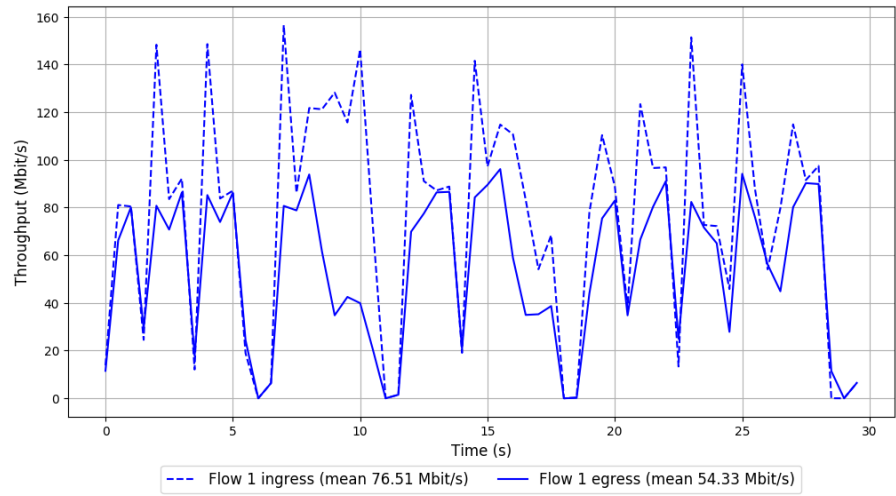
Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2018-02-02 15:17:58
End at: 2018-02-02 15:18:28
Local clock offset: 0.518 ms
Remote clock offset: -4.022 ms


# Below is generated by plot.py at 2018-02-02 17:35:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 64.795 ms
Loss rate: 28.97%
-- Flow 1:
Average throughput: 54.33 Mbit/s
95th percentile per-packet one-way delay: 64.795 ms
Loss rate: 28.97%
```

Run 7: Report of Verus — Data Link

Flow 1 ingress (mean 76.51 Mbit/s) --- Flow 1 egress (mean 54.33 Mbit/s)

Flow 1 (95th percentile 64.80 ms)

```
Run 8: Statistics of Verus

Start at: 2018-02-02 15:43:24
End at: 2018-02-02 15:43:54
Local clock offset: 0.236 ms
Remote clock offset: -2.34 ms


# Below is generated by plot.py at 2018-02-02 17:35:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.24 Mbit/s
95th percentile per-packet one-way delay: 65.907 ms
Loss rate: 21.84%
-- Flow 1:
Average throughput: 62.24 Mbit/s
95th percentile per-packet one-way delay: 65.907 ms
Loss rate: 21.84%
```
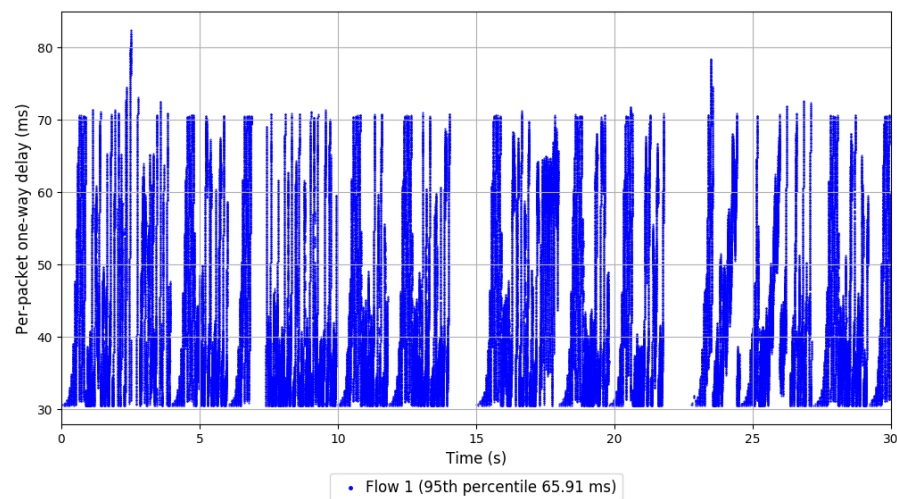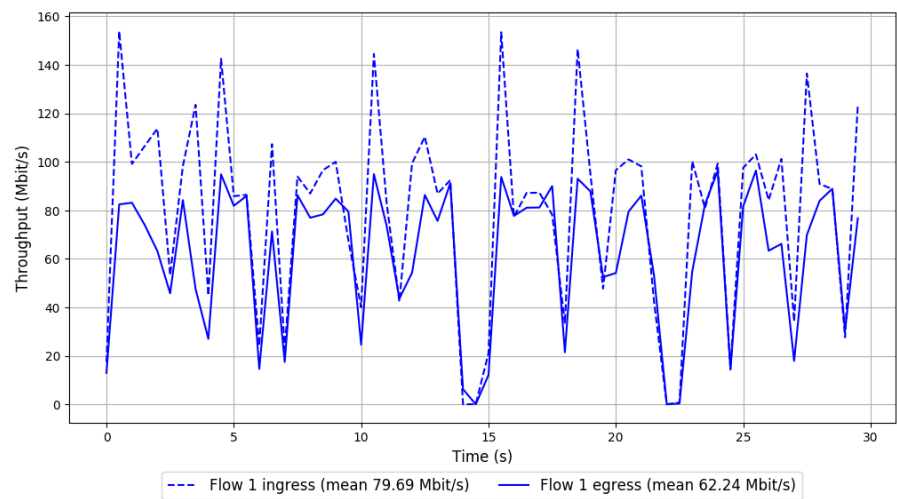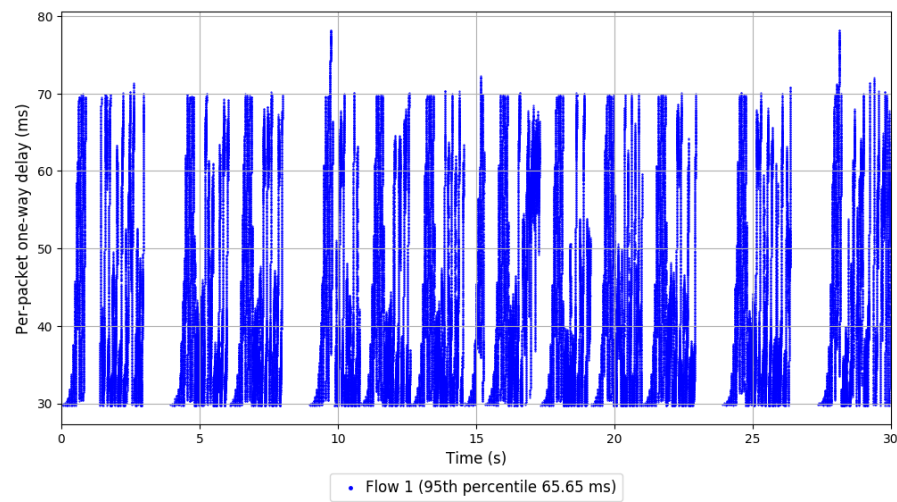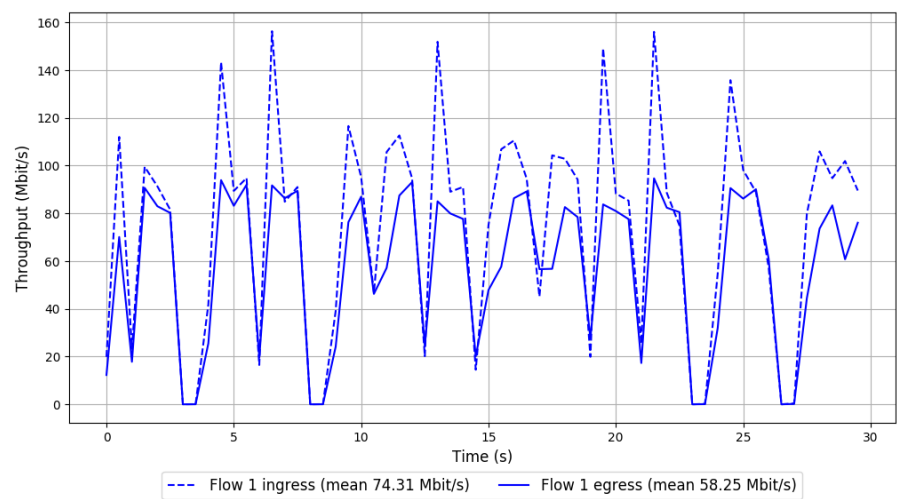
Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2018-02-02 16:08:18
End at: 2018-02-02 16:08:48
Local clock offset: 0.045 ms
Remote clock offset: -2.494 ms


# Below is generated by plot.py at 2018-02-02 17:35:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.25 Mbit/s
95th percentile per-packet one-way delay: 65.650 ms
Loss rate: 21.53%
-- Flow 1:
Average throughput: 58.25 Mbit/s
95th percentile per-packet one-way delay: 65.650 ms
Loss rate: 21.53%
```

Run 9: Report of Verus — Data Link

Flow 1 ingress (mean 74.31 Mbit/s)   Flow 1 egress (mean 58.25 Mbit/s)

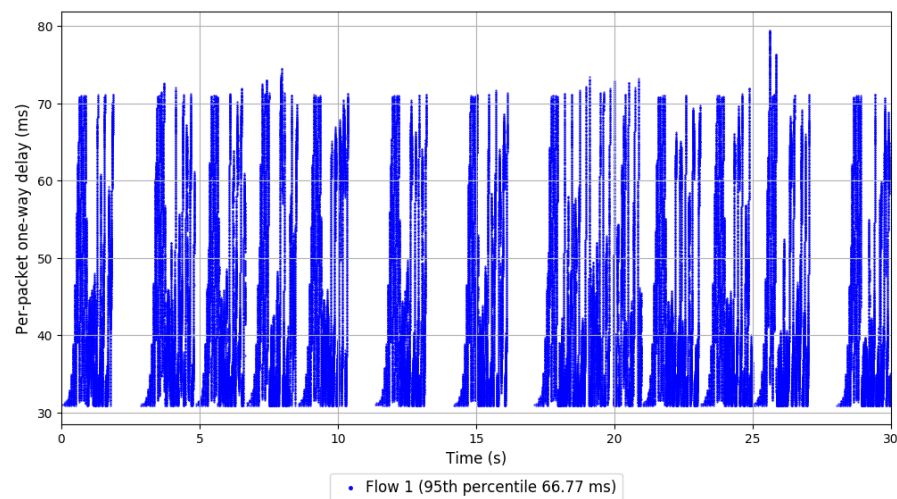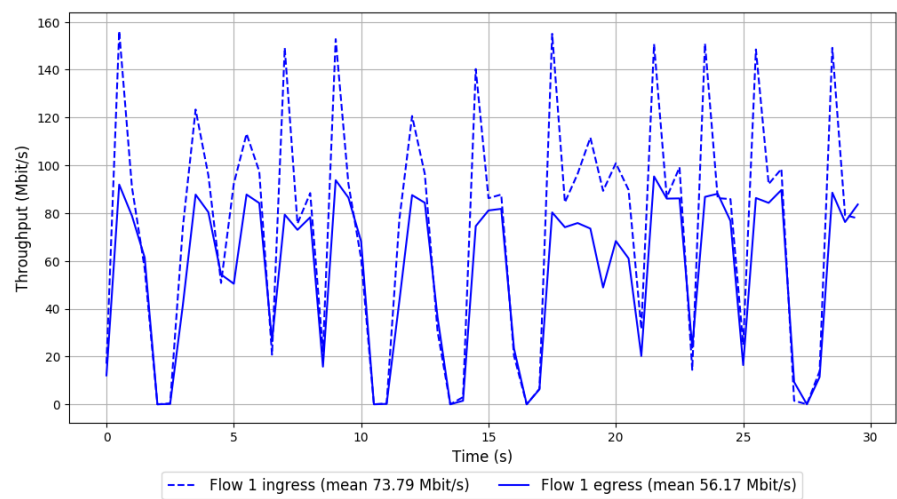

• Flow 1 (95th percentile 65.65 ms)

```
Run 10: Statistics of Verus

Start at: 2018-02-02 16:32:21
End at: 2018-02-02 16:32:51
Local clock offset: -0.108 ms
Remote clock offset: -2.348 ms


# Below is generated by plot.py at 2018-02-02 17:35:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 66.766 ms
Loss rate: 23.87%
-- Flow 1:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 66.766 ms
Loss rate: 23.87%
```

Run 10: Report of Verus — Data Link

Flow 1 ingress (mean 73.79 Mbit/s)   Flow 1 egress (mean 56.17 Mbit/s)

Flow 1 (95th percentile 66.77 ms)

```
Run 1: Statistics of Copa

Start at: 2018-02-02 13:01:15
End at: 2018-02-02 13:01:45
Local clock offset: 1.045 ms
Remote clock offset: 0.655 ms


# Below is generated by plot.py at 2018-02-02 17:36:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 30.590 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 49.03 Mbit/s
95th percentile per-packet one-way delay: 30.590 ms
Loss rate: 0.04%
```
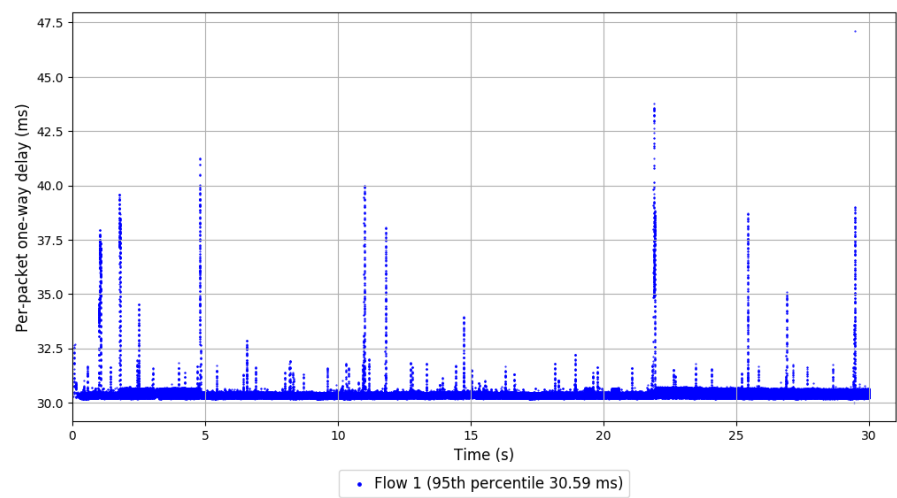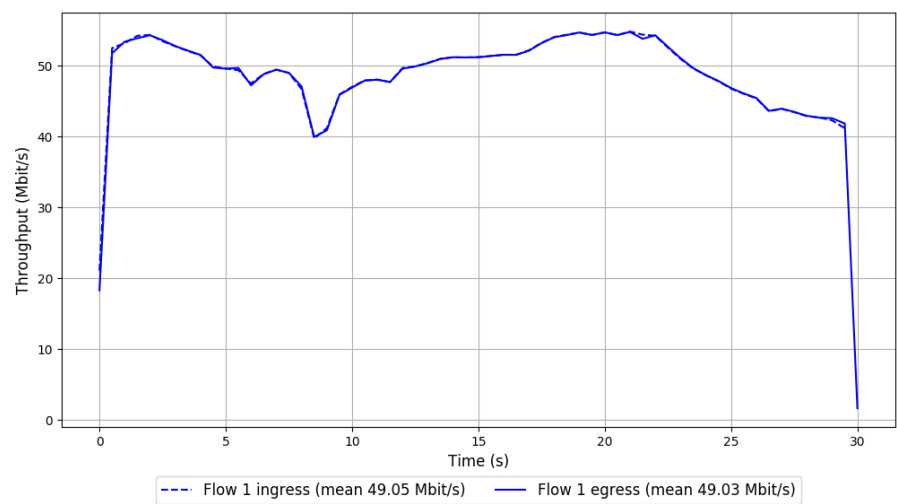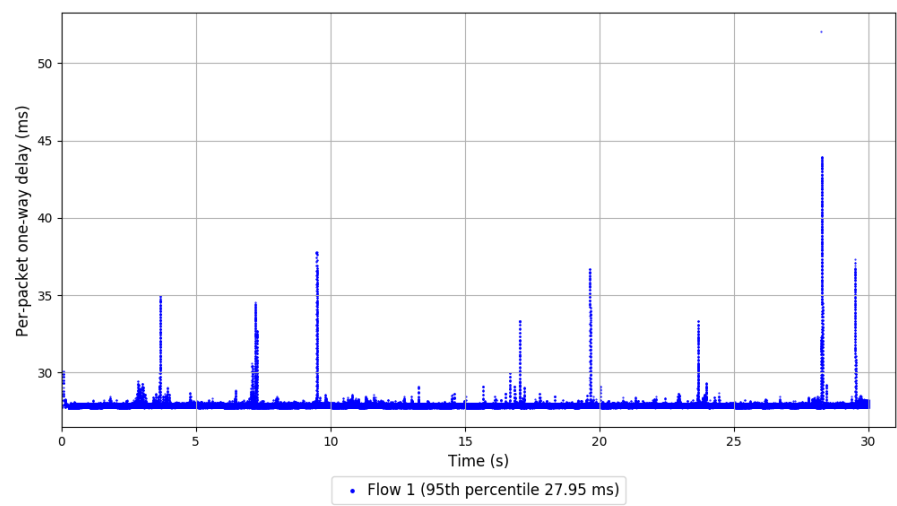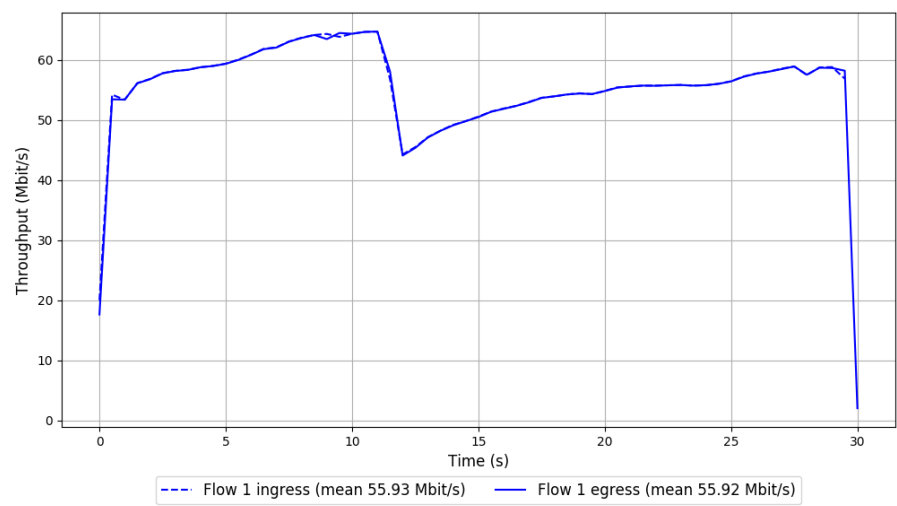
Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2018-02-02 13:25:18
End at: 2018-02-02 13:25:48
Local clock offset: 1.069 ms
Remote clock offset: -3.053 ms


# Below is generated by plot.py at 2018-02-02 17:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.92 Mbit/s
95th percentile per-packet one-way delay: 27.952 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 55.92 Mbit/s
95th percentile per-packet one-way delay: 27.952 ms
Loss rate: 0.01%
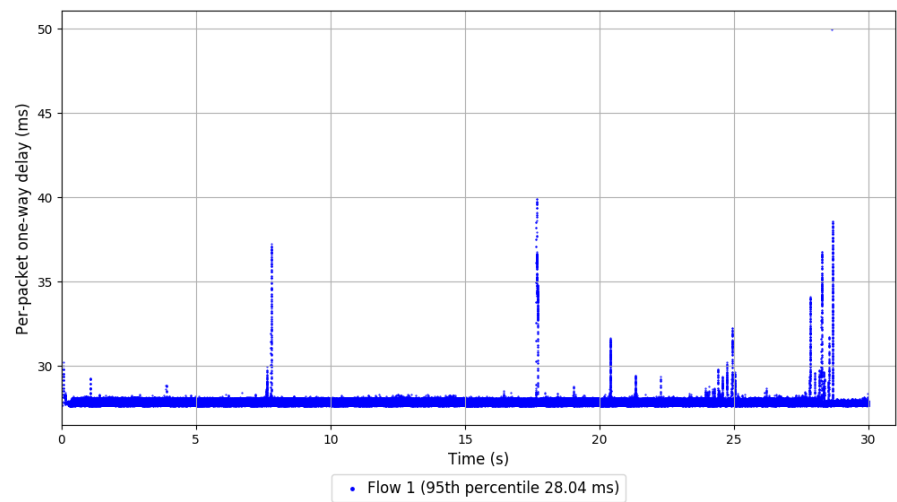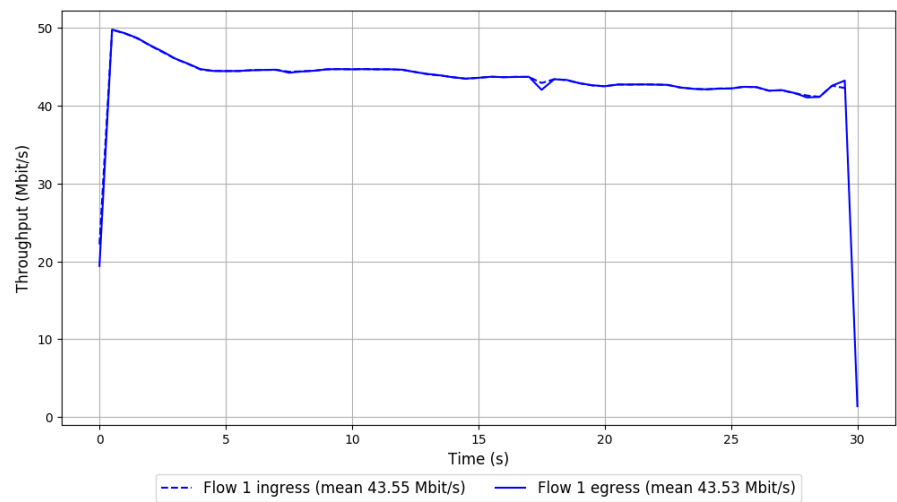```

Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2018-02-02 13:49:42
End at: 2018-02-02 13:50:12
Local clock offset: 1.071 ms
Remote clock offset: -3.105 ms


# Below is generated by plot.py at 2018-02-02 17:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 28.039 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 28.039 ms
Loss rate: 0.05%
```

Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 43.55 Mbit/s)   Flow 1 egress (mean 43.53 Mbit/s)
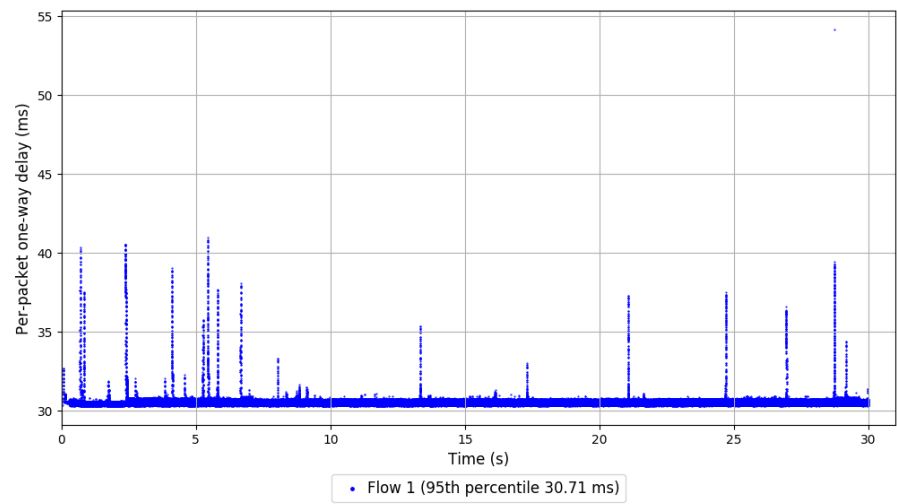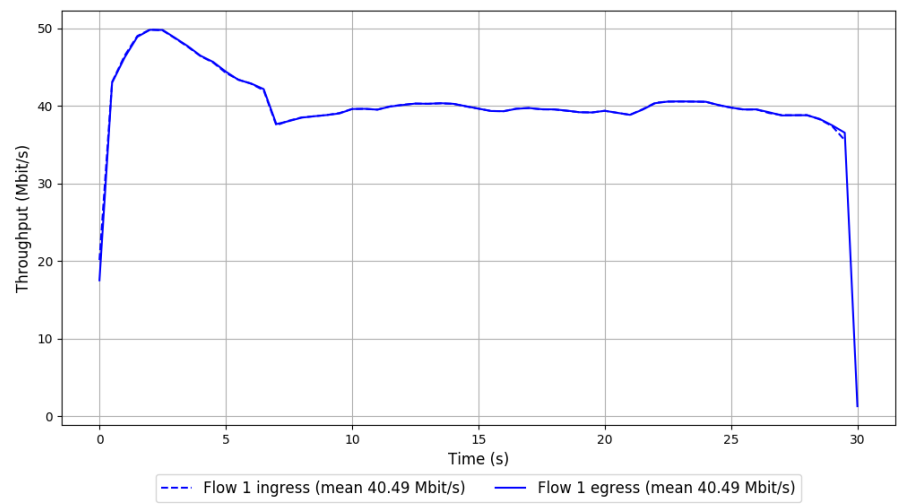

Flow 1 (95th percentile 28.04 ms)

```
Run 4: Statistics of Copa

Start at: 2018-02-02 14:14:04
End at: 2018-02-02 14:14:34
Local clock offset: 1.055 ms
Remote clock offset: -0.367 ms


# Below is generated by plot.py at 2018-02-02 17:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 30.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 30.712 ms
Loss rate: 0.00%
```
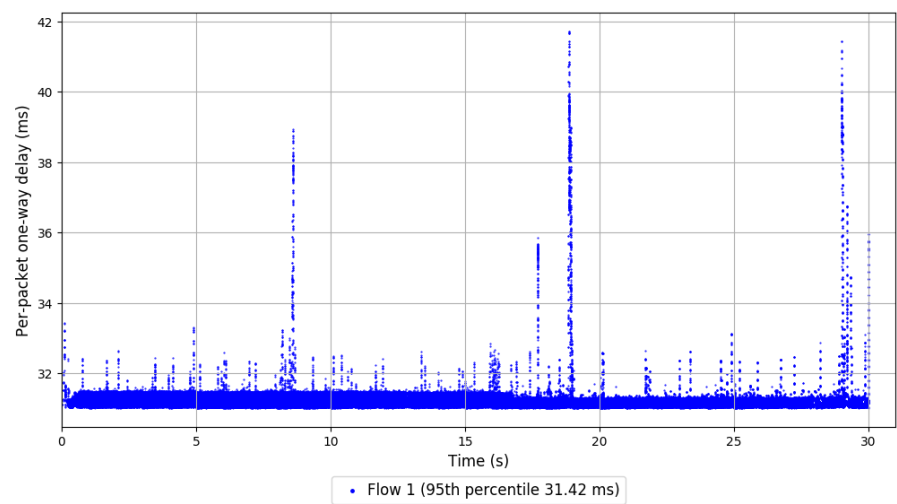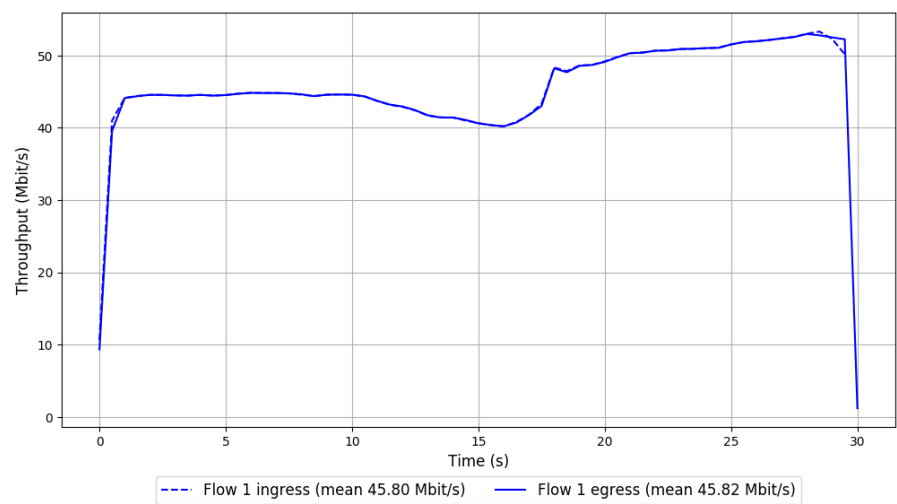
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2018-02-02 14:38:50
End at: 2018-02-02 14:39:20
Local clock offset: 0.855 ms
Remote clock offset: -1.026 ms


# Below is generated by plot.py at 2018-02-02 17:36:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.82 Mbit/s
95th percentile per-packet one-way delay: 31.421 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 45.82 Mbit/s
95th percentile per-packet one-way delay: 31.421 ms
Loss rate: 0.02%
```
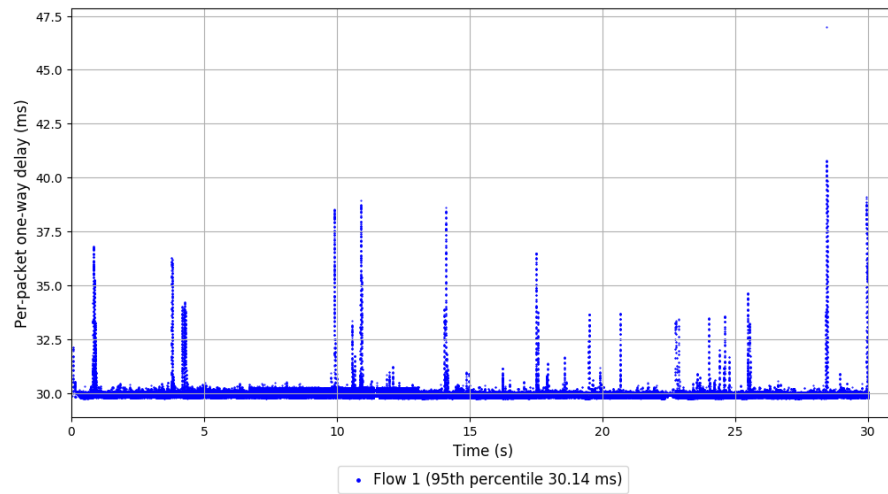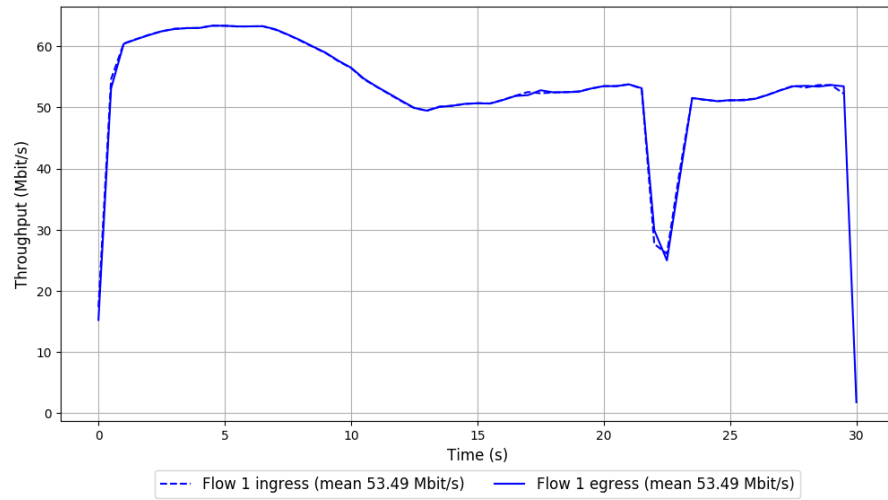
Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: 2018-02-02 15:02:55
End at: 2018-02-02 15:03:25
Local clock offset: 0.656 ms
Remote clock offset: -1.713 ms


# Below is generated by plot.py at 2018-02-02 17:36:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.49 Mbit/s
95th percentile per-packet one-way delay: 30.144 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 53.49 Mbit/s
95th percentile per-packet one-way delay: 30.144 ms
Loss rate: 0.01%
```

Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 53.49 Mbit/s) ----- Flow 1 egress (mean 53.49 Mbit/s)
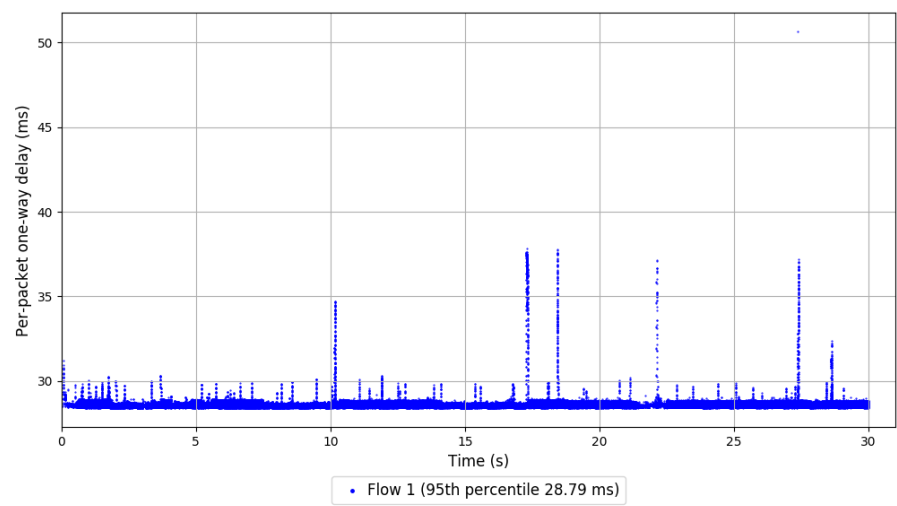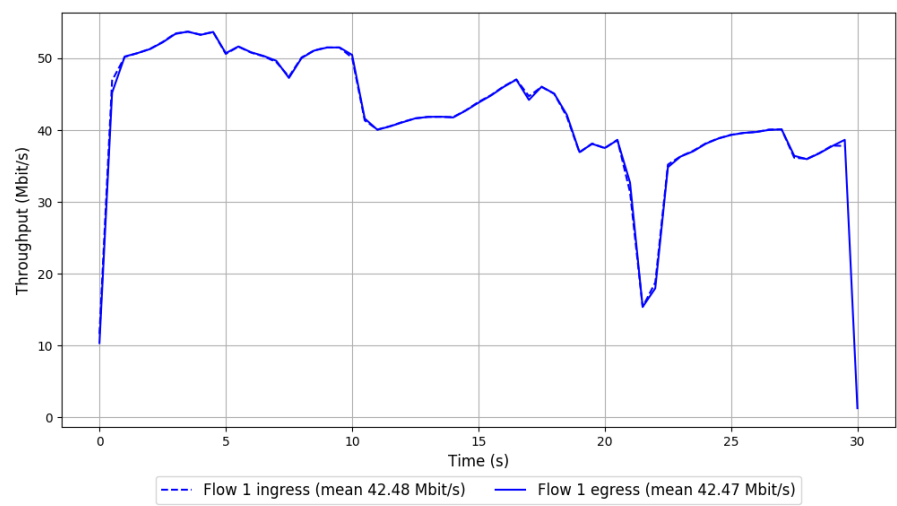

Flow 1 (95th percentile 30.14 ms)

```
Run 7: Statistics of Copa

Start at: 2018-02-02 15:27:59
End at: 2018-02-02 15:28:29
Local clock offset: 0.418 ms
Remote clock offset: -4.248 ms


# Below is generated by plot.py at 2018-02-02 17:36:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.47 Mbit/s
95th percentile per-packet one-way delay: 28.793 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 42.47 Mbit/s
95th percentile per-packet one-way delay: 28.793 ms
Loss rate: 0.03%
```

Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 42.48 Mbit/s)   Flow 1 egress (mean 42.47 Mbit/s)
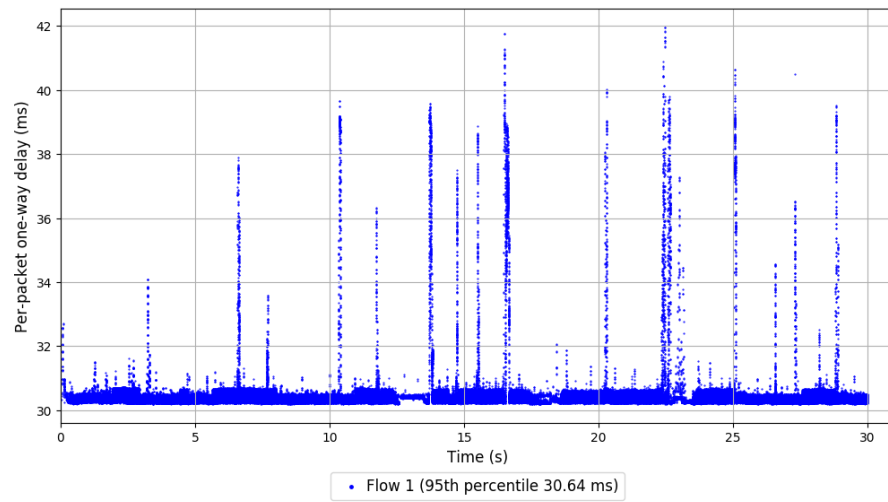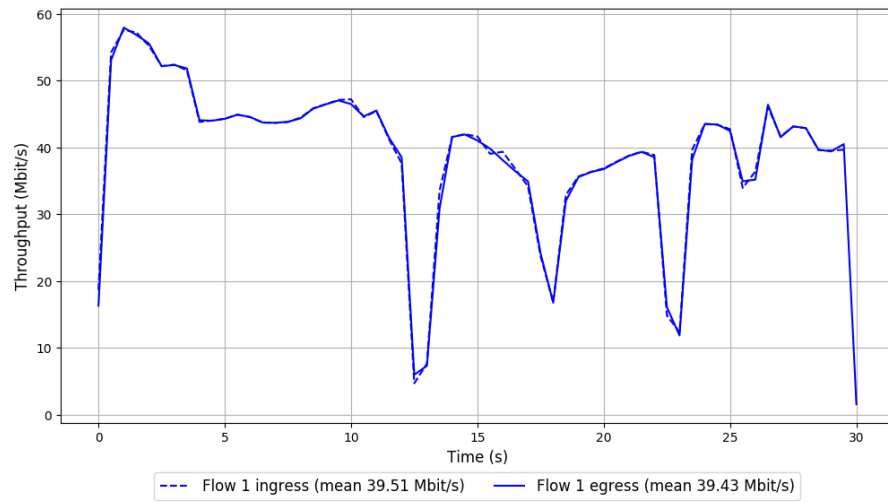

Flow 1 (95th percentile 28.79 ms)

```
Run 8: Statistics of Copa

Start at: 2018-02-02 15:53:22
End at: 2018-02-02 15:53:52
Local clock offset: 0.078 ms
Remote clock offset: -2.036 ms


# Below is generated by plot.py at 2018-02-02 17:36:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.43 Mbit/s
95th percentile per-packet one-way delay: 30.639 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 39.43 Mbit/s
95th percentile per-packet one-way delay: 30.639 ms
Loss rate: 0.19%
```

Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 39.51 Mbit/s) --- Flow 1 egress (mean 39.43 Mbit/s)
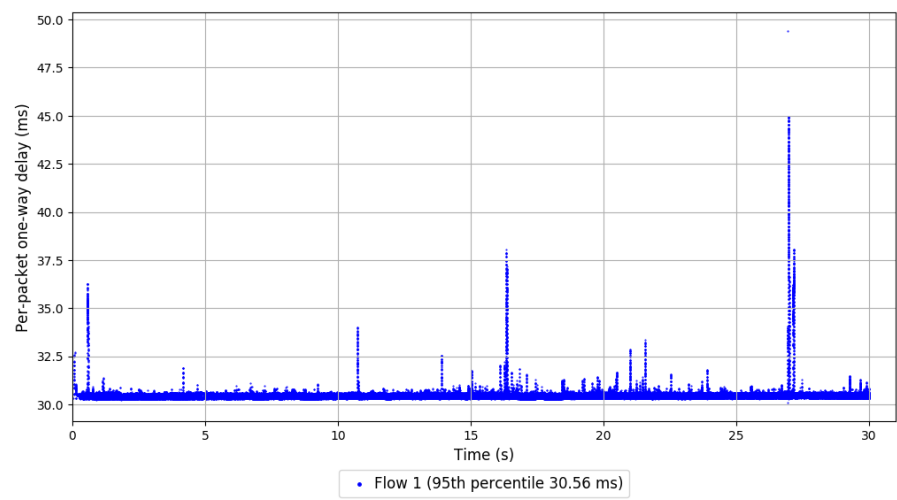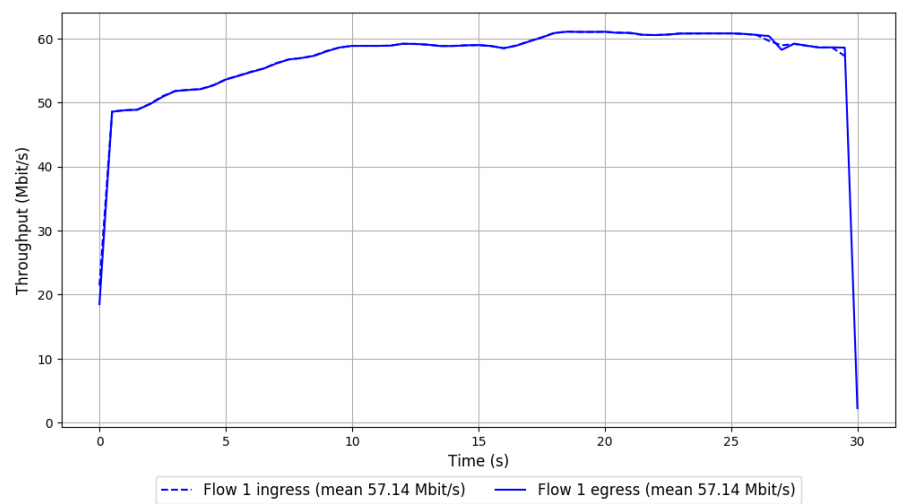

Flow 1 (95th percentile 30.64 ms)

```
Run 9: Statistics of Copa

Start at: 2018-02-02 16:17:40
End at: 2018-02-02 16:18:10
Local clock offset: -0.111 ms
Remote clock offset: -2.346 ms


# Below is generated by plot.py at 2018-02-02 17:37:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.14 Mbit/s
95th percentile per-packet one-way delay: 30.561 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.14 Mbit/s
95th percentile per-packet one-way delay: 30.561 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 57.14 Mbit/s) --- Flow 1 egress (mean 57.14 Mbit/s)
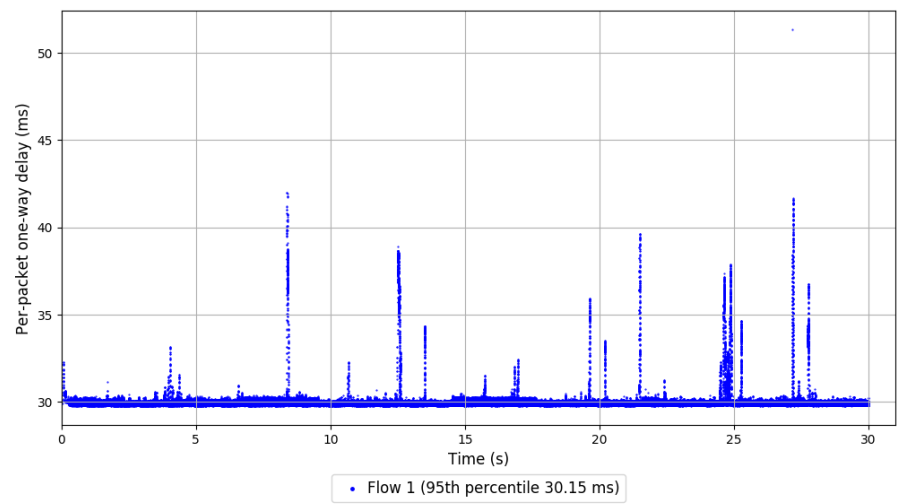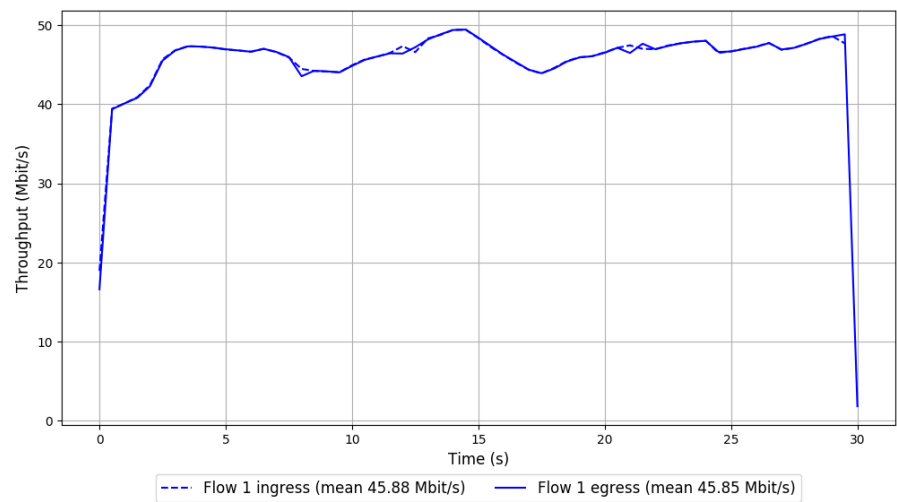

Flow 1 (95th percentile 30.56 ms)

```
Run 10: Statistics of Copa

Start at: 2018-02-02 16:41:48
End at: 2018-02-02 16:42:18
Local clock offset: -0.146 ms
Remote clock offset: -3.015 ms


# Below is generated by plot.py at 2018-02-02 17:37:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.85 Mbit/s
95th percentile per-packet one-way delay: 30.149 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 45.85 Mbit/s
95th percentile per-packet one-way delay: 30.149 ms
Loss rate: 0.06%
```

Run 10: Report of Copa — Data Link

```
Run 1: Statistics of FillP

Start at: 2018-02-02 12:55:44
End at: 2018-02-02 12:56:14
Local clock offset: 1.009 ms
Remote clock offset: 0.135 ms


# Below is generated by plot.py at 2018-02-02 17:38:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 42.126 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 87.07 Mbit/s
95th percentile per-packet one-way delay: 42.126 ms
Loss rate: 2.34%
```
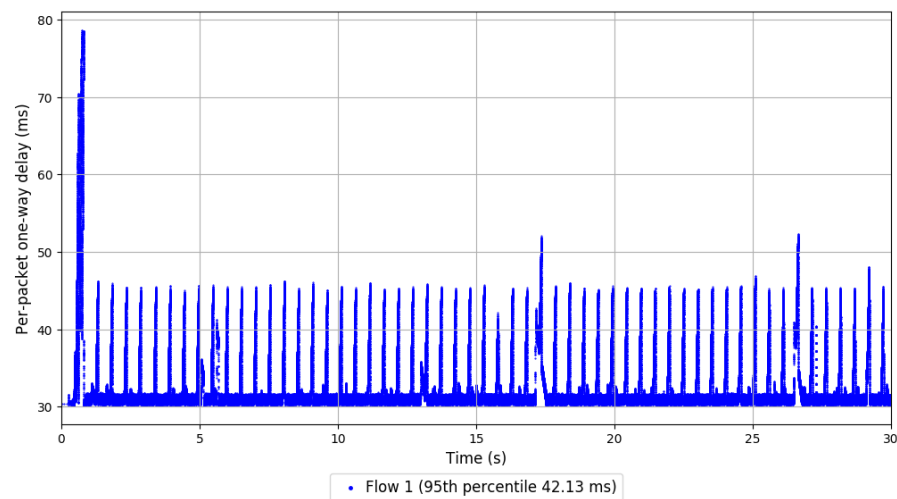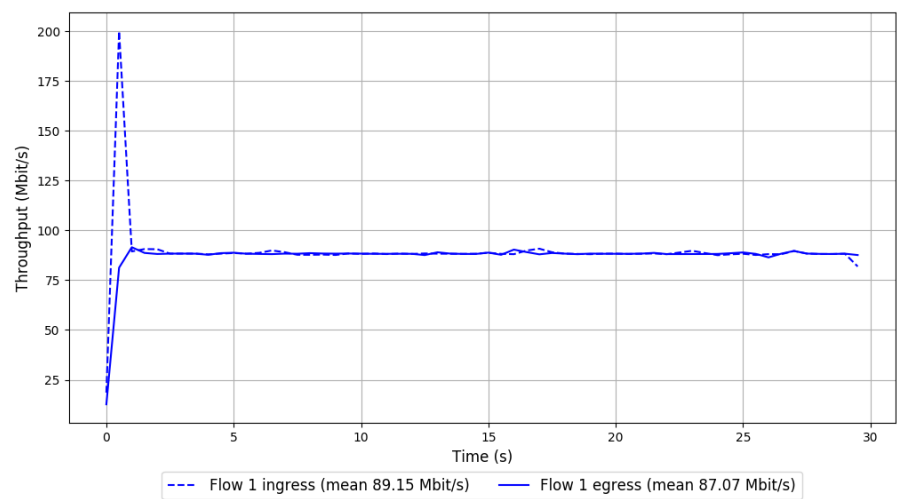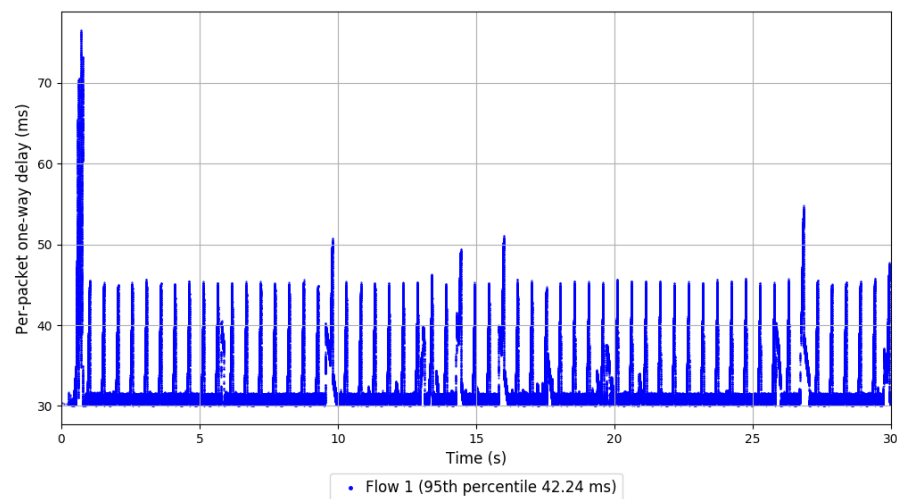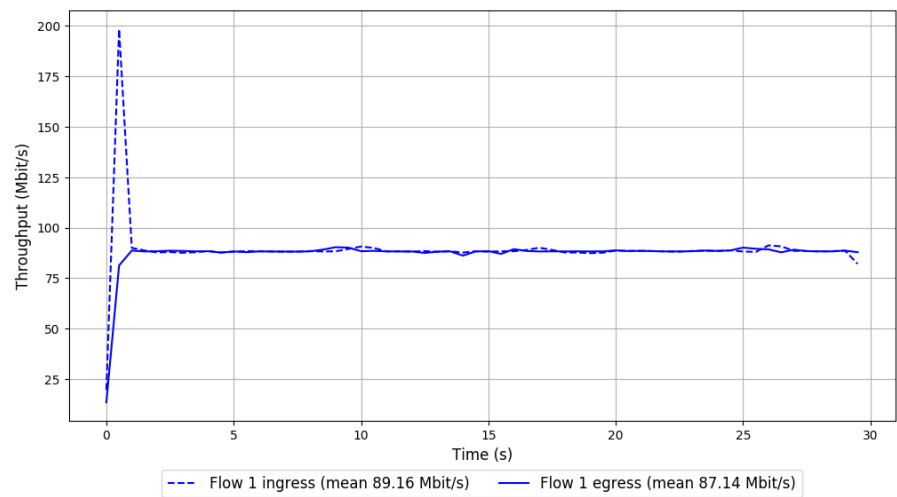
Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2018-02-02 13:19:51
End at: 2018-02-02 13:20:21
Local clock offset: 1.128 ms
Remote clock offset: -0.336 ms


# Below is generated by plot.py at 2018-02-02 17:38:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 42.237 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 87.14 Mbit/s
95th percentile per-packet one-way delay: 42.237 ms
Loss rate: 2.27%
```

Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 89.16 Mbit/s)   Flow 1 egress (mean 87.14 Mbit/s)

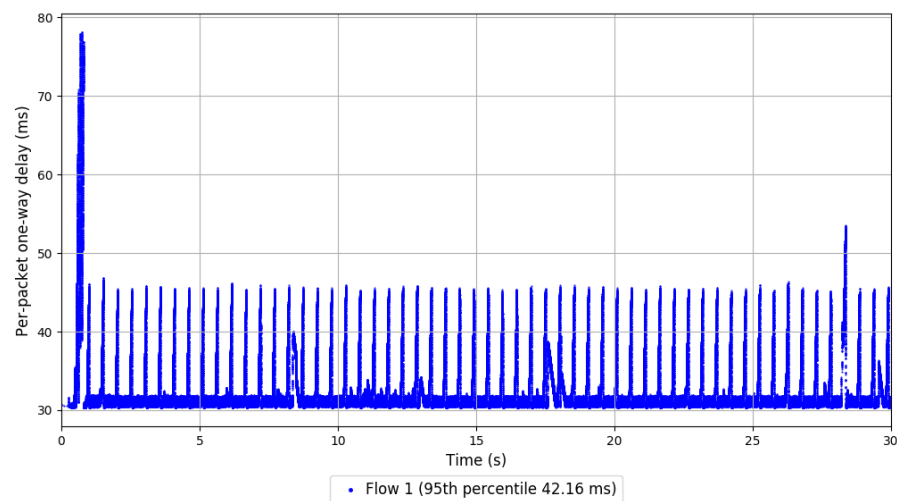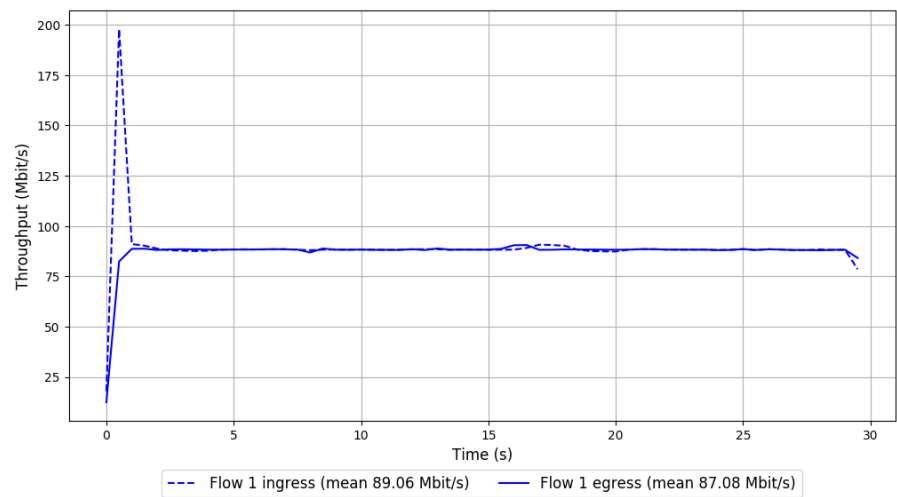

• Flow 1 (95th percentile 42.24 ms)

```
Run 3: Statistics of FillP

Start at: 2018-02-02 13:44:11
End at: 2018-02-02 13:44:41
Local clock offset: 0.976 ms
Remote clock offset: -1.028 ms


# Below is generated by plot.py at 2018-02-02 17:38:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 42.160 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 42.160 ms
Loss rate: 2.22%
```

Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 89.06 Mbit/s) ------ Flow 1 egress (mean 87.08 Mbit/s) ——
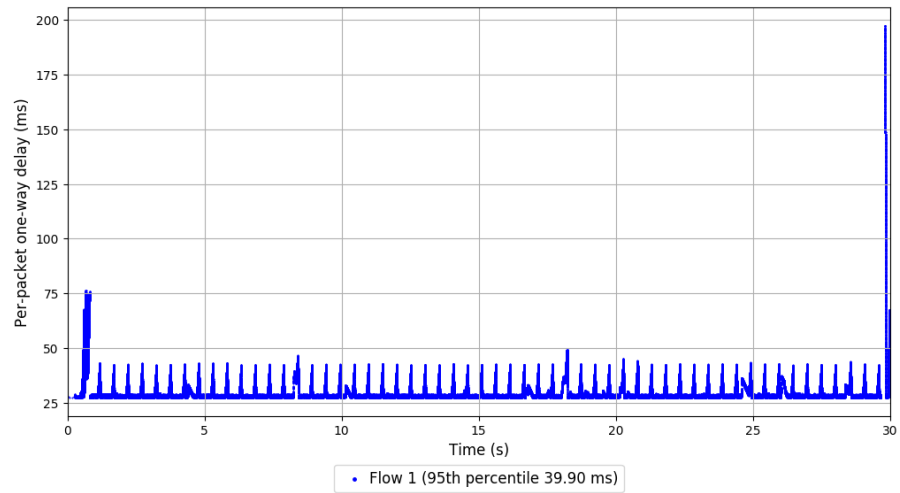

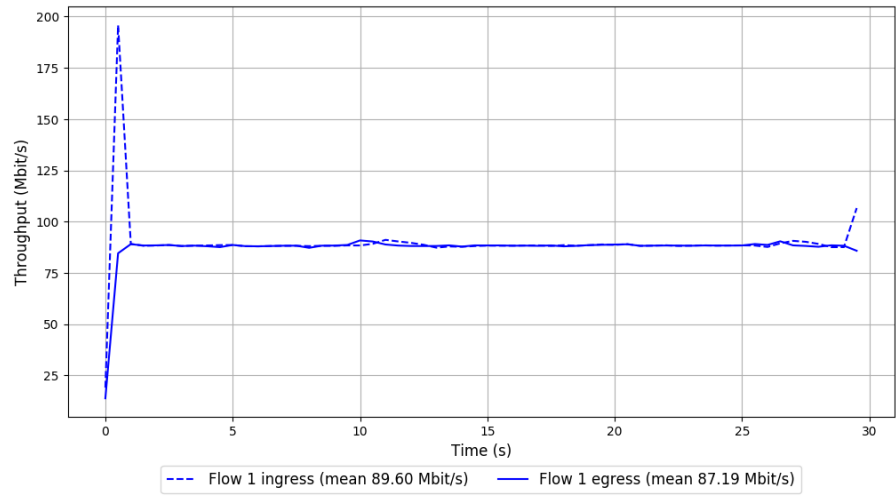• Flow 1 (95th percentile 42.16 ms)

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```
Run 4: Statistics of FillP

Start at: 2018-02-02 14:08:41
End at: 2018-02-02 14:09:11
Local clock offset: 1.228 ms
Remote clock offset: -2.905 ms


# Below is generated by plot.py at 2018-02-02 17:39:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.19 Mbit/s
95th percentile per-packet one-way delay: 39.897 ms
Loss rate: 2.64%
-- Flow 1:
Average throughput: 87.19 Mbit/s
95th percentile per-packet one-way delay: 39.897 ms
Loss rate: 2.64%
```
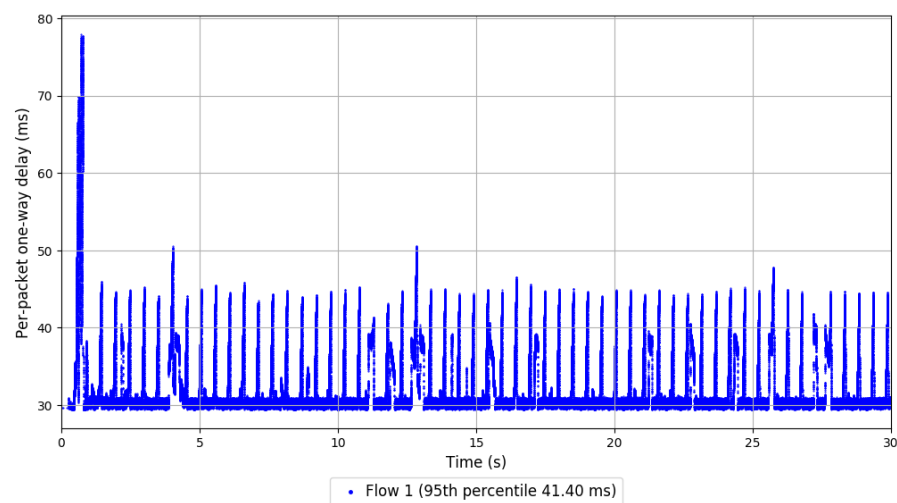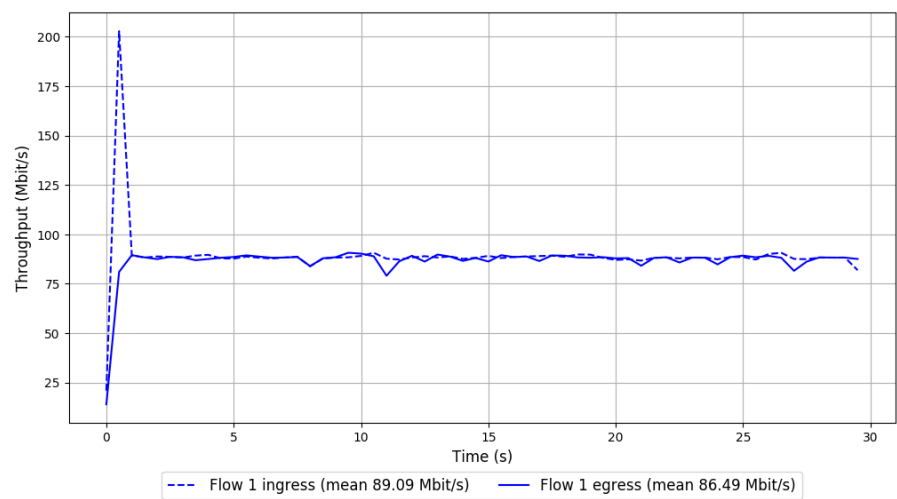
Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2018-02-02 14:32:59
End at: 2018-02-02 14:33:29
Local clock offset: 0.934 ms
Remote clock offset: -1.535 ms


# Below is generated by plot.py at 2018-02-02 17:39:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 41.404 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 86.49 Mbit/s
95th percentile per-packet one-way delay: 41.404 ms
Loss rate: 2.92%
```

Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 89.09 Mbit/s)   Flow 1 egress (mean 86.49 Mbit/s)

• Flow 1 (95th percentile 41.40 ms)

```
Run 6: Statistics of FillP

Start at: 2018-02-02 14:57:28
End at: 2018-02-02 14:57:58
Local clock offset: 0.719 ms
Remote clock offset: -1.33 ms


# Below is generated by plot.py at 2018-02-02 17:39:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.99 Mbit/s
95th percentile per-packet one-way delay: 42.951 ms
Loss rate: 2.43%
-- Flow 1:
Average throughput: 86.99 Mbit/s
95th percentile per-packet one-way delay: 42.951 ms
Loss rate: 2.43%
```
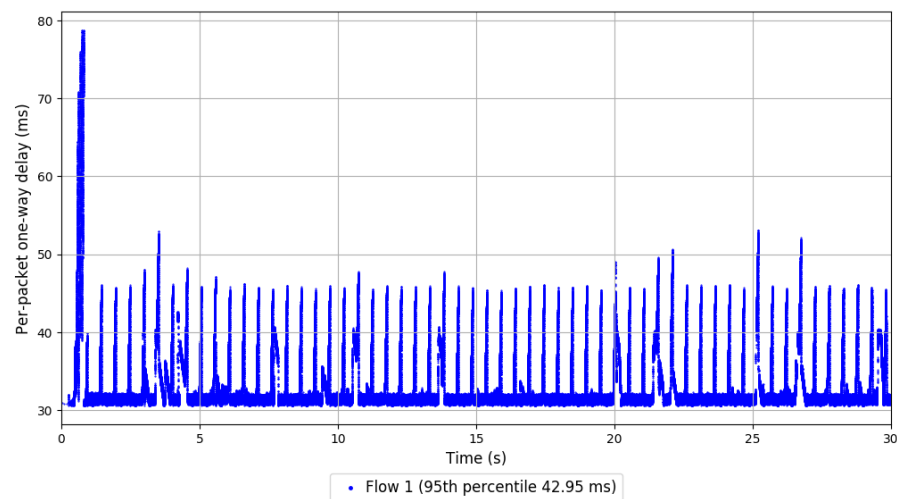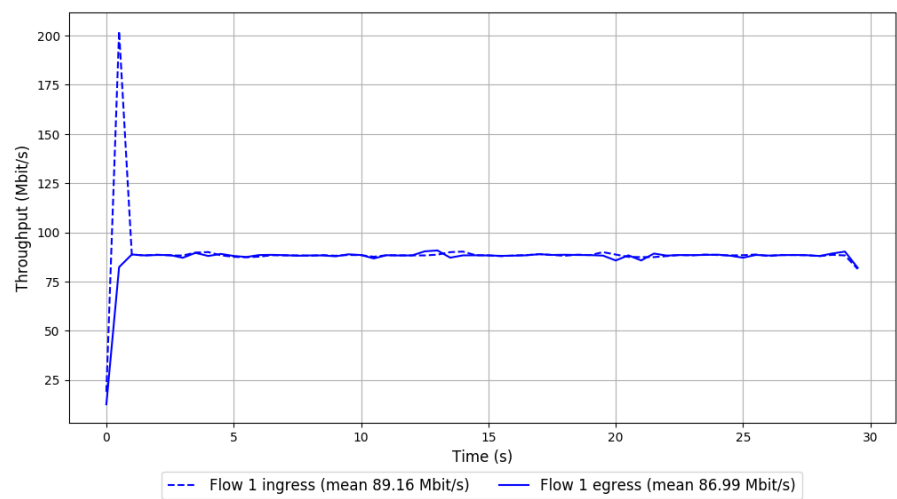
Run 6: Report of FillP — Data Link

Flow 1 ingress (mean 89.16 Mbit/s) — — — Flow 1 egress (mean 86.99 Mbit/s)
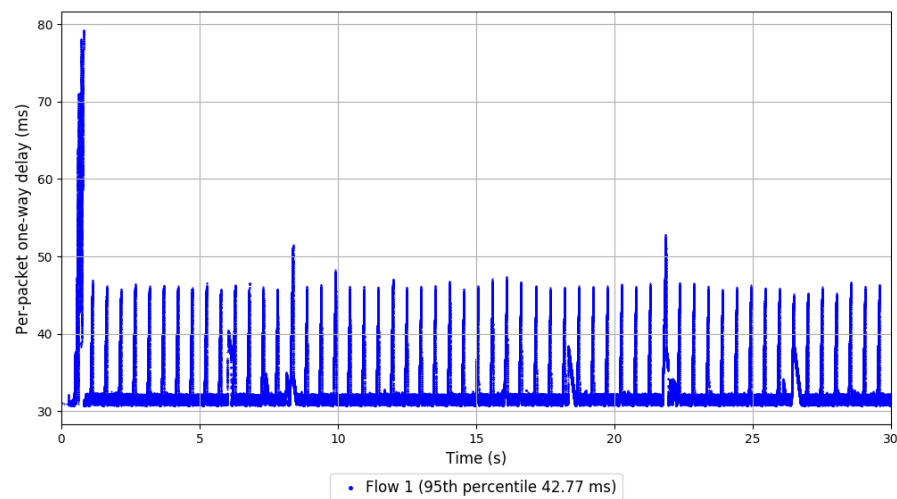
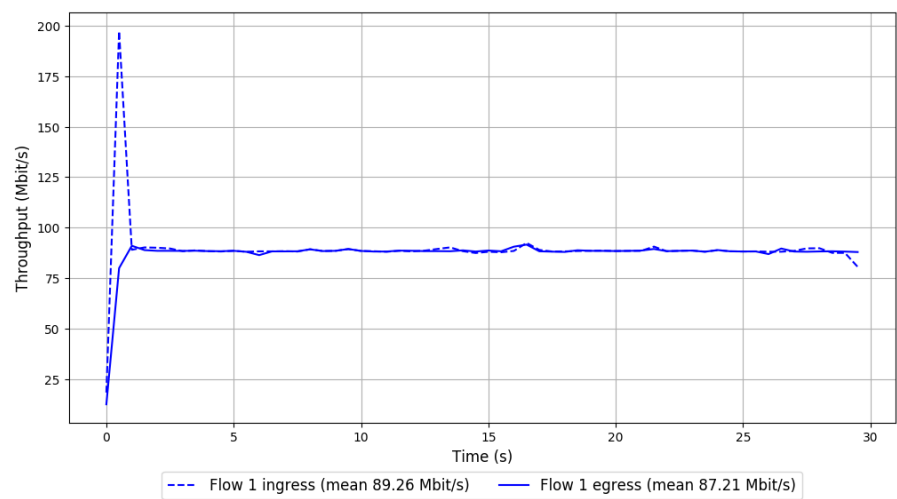

• Flow 1 (95th percentile 42.95 ms)

```
Run 7: Statistics of FillP

Start at: 2018-02-02 15:22:09
End at: 2018-02-02 15:22:39
Local clock offset: 0.458 ms
Remote clock offset: -1.553 ms


# Below is generated by plot.py at 2018-02-02 17:39:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.21 Mbit/s
95th percentile per-packet one-way delay: 42.775 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 87.21 Mbit/s
95th percentile per-packet one-way delay: 42.775 ms
Loss rate: 2.29%
```

Run 7: Report of FillP — Data Link

Flow 1 ingress (mean 89.26 Mbit/s) ——— Flow 1 egress (mean 87.21 Mbit/s)

• Flow 1 (95th percentile 42.77 ms)

```
Run 8: Statistics of FillP

Start at: 2018-02-02 15:47:37
End at: 2018-02-02 15:48:07
Local clock offset: 0.182 ms
Remote clock offset: -2.43 ms


# Below is generated by plot.py at 2018-02-02 17:39:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 42.006 ms
Loss rate: 2.42%
-- Flow 1:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 42.006 ms
Loss rate: 2.42%
```
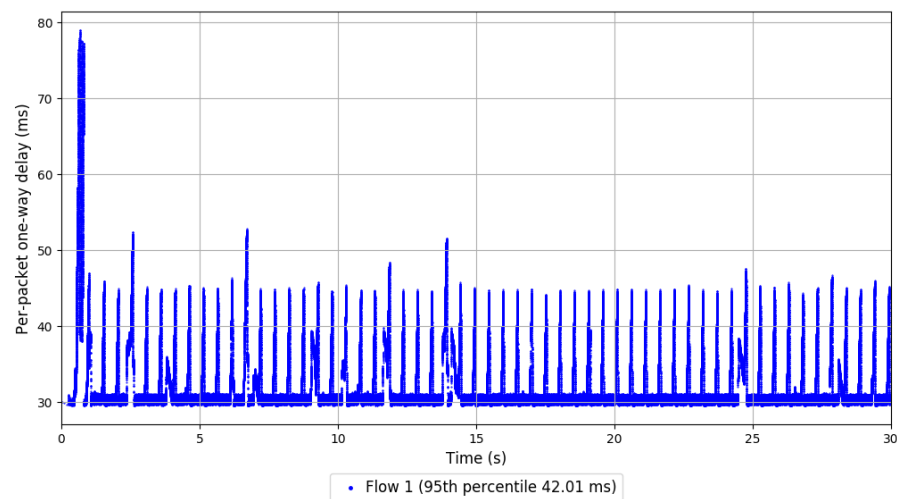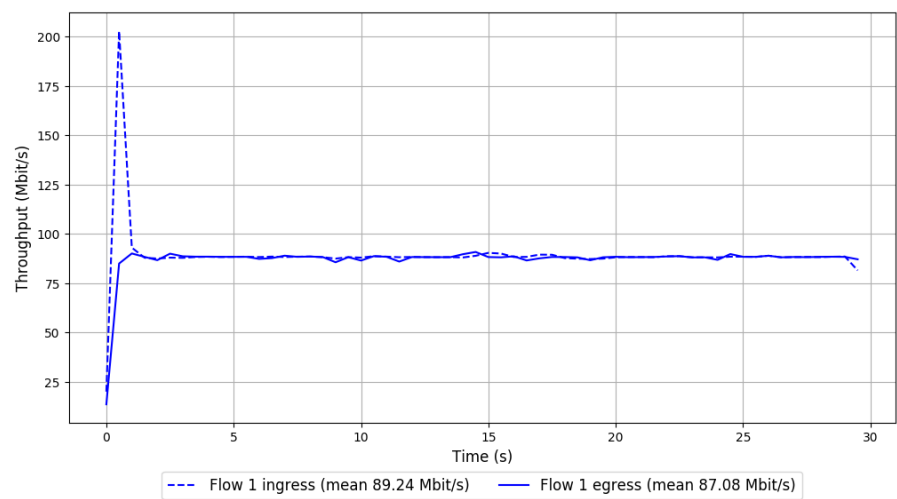
Run 8: Report of FillP — Data Link

Flow 1 ingress (mean 89.24 Mbit/s)   Flow 1 egress (mean 87.08 Mbit/s)

Flow 1 (95th percentile 42.01 ms)

```
Run 9: Statistics of FillP

Start at: 2018-02-02 16:12:17
End at: 2018-02-02 16:12:47
Local clock offset: 0.025 ms
Remote clock offset: -2.18 ms


# Below is generated by plot.py at 2018-02-02 17:41:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 42.536 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 42.536 ms
Loss rate: 2.14%
```
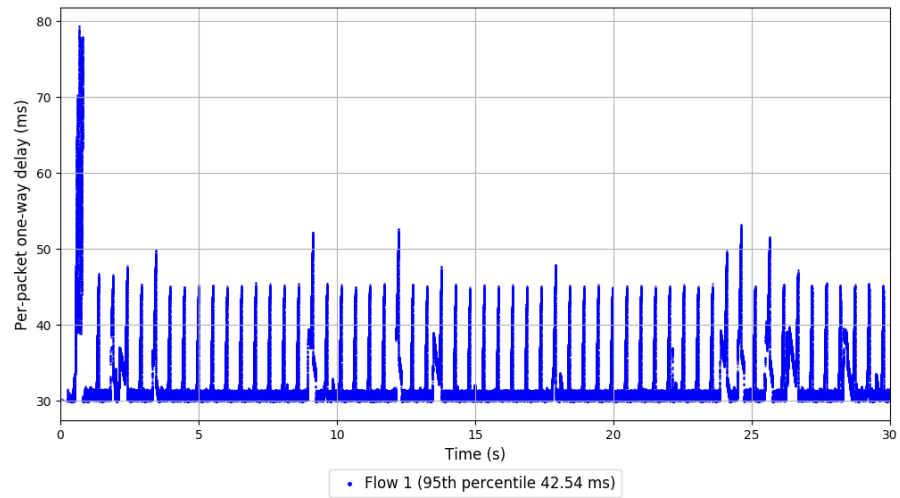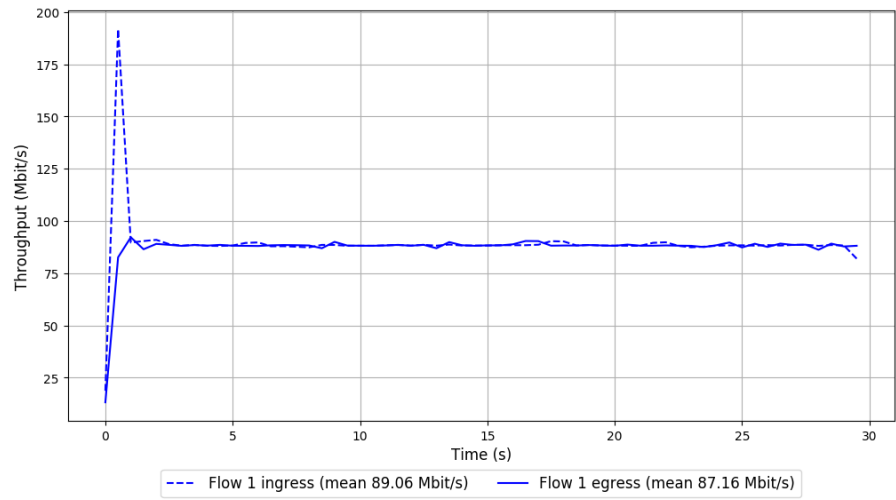
Run 9: Report of FillP — Data Link

Flow 1 ingress (mean 89.06 Mbit/s)   Flow 1 egress (mean 87.16 Mbit/s)

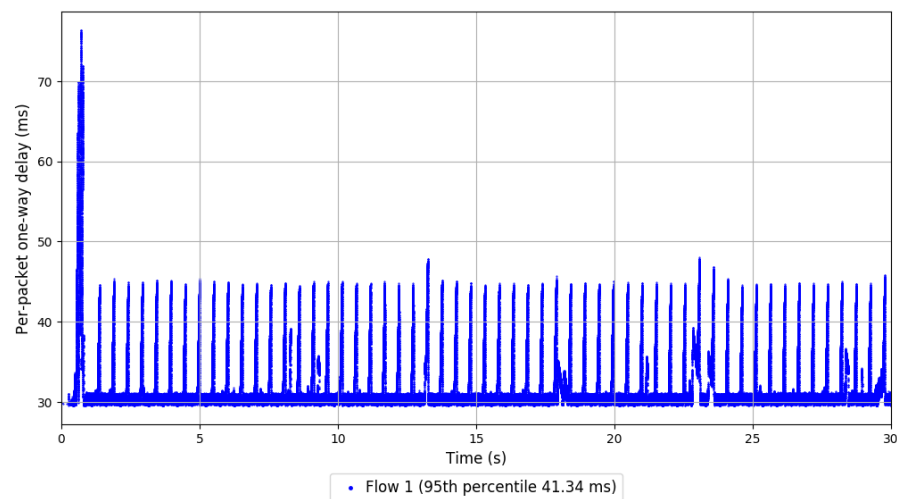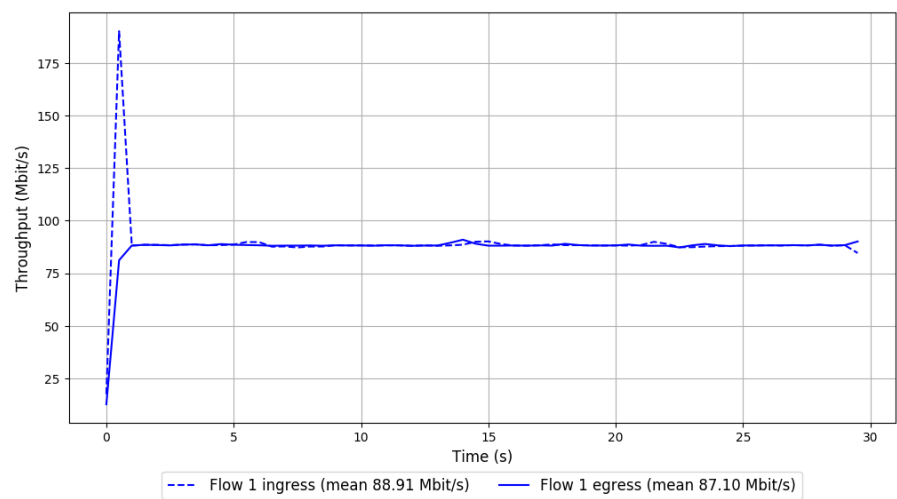• Flow 1 (95th percentile 42.54 ms)

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```
Run 10: Statistics of FillP

Start at: 2018-02-02 16:36:23
End at: 2018-02-02 16:36:53
Local clock offset: -0.234 ms
Remote clock offset: -2.926 ms


# Below is generated by plot.py at 2018-02-02 17:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 41.339 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 41.339 ms
Loss rate: 2.03%
```

Run 10: Report of FillP — Data Link

Flow 1 ingress (mean 88.91 Mbit/s)   Flow 1 egress (mean 87.10 Mbit/s)

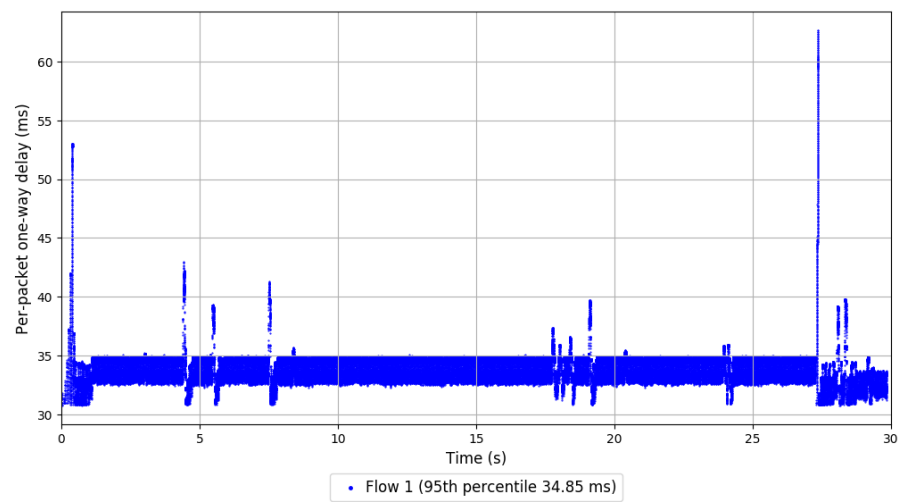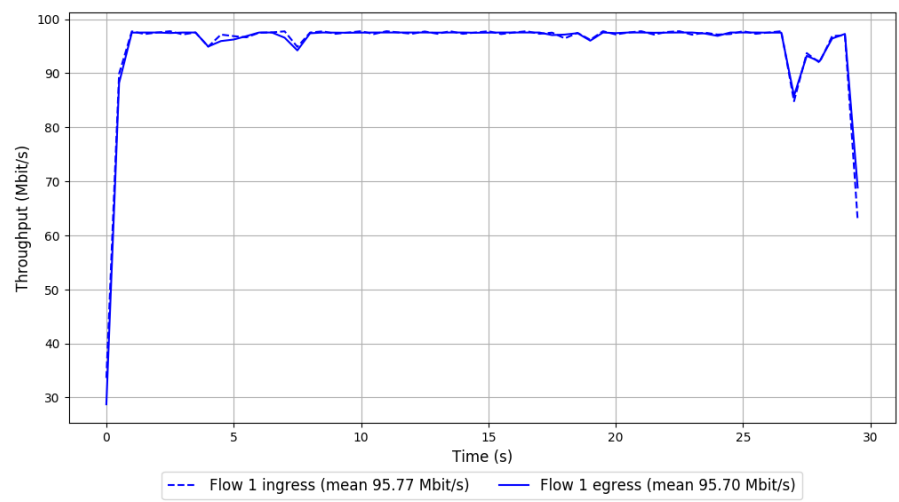Flow 1 (95th percentile 41.34 ms)

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

Start at: 2018-02-02 12:54:21
End at: 2018-02-02 12:54:51
Local clock offset: 1.001 ms
Remote clock offset: 0.53 ms


# Below is generated by plot.py at 2018-02-02 17:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 34.848 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.70 Mbit/s
95th percentile per-packet one-way delay: 34.848 ms
Loss rate: 0.07%
```

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

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

Start at: 2018-02-02 13:18:27
End at: 2018-02-02 13:18:57
Local clock offset: 1.152 ms
Remote clock offset: -0.666 ms


# Below is generated by plot.py at 2018-02-02 17:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.55 Mbit/s
95th percentile per-packet one-way delay: 34.504 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 94.55 Mbit/s
95th percentile per-packet one-way delay: 34.504 ms
Loss rate: 0.07%
```
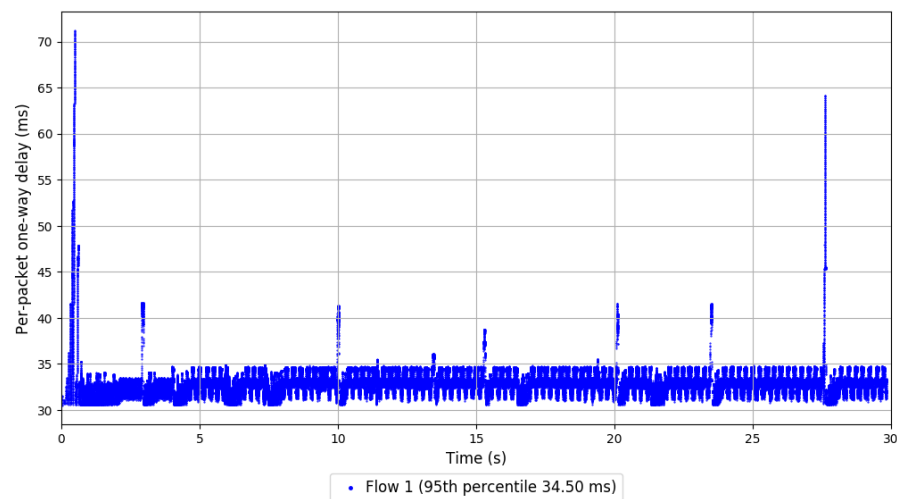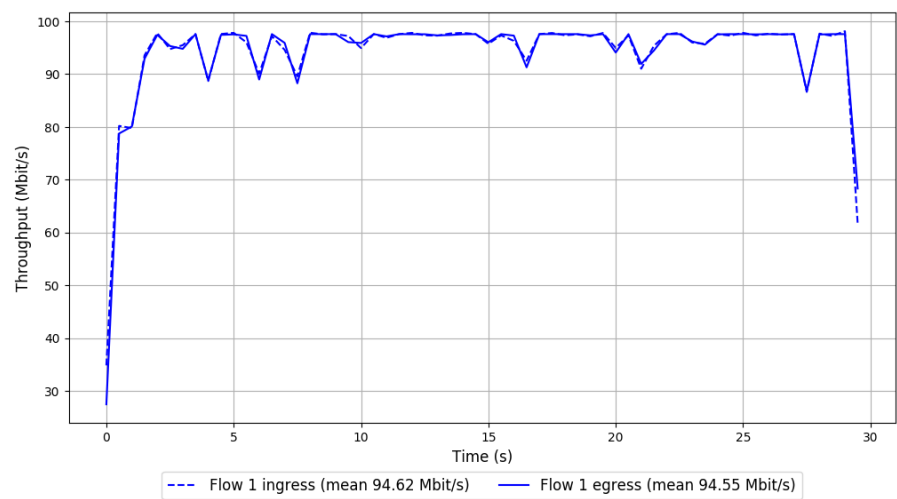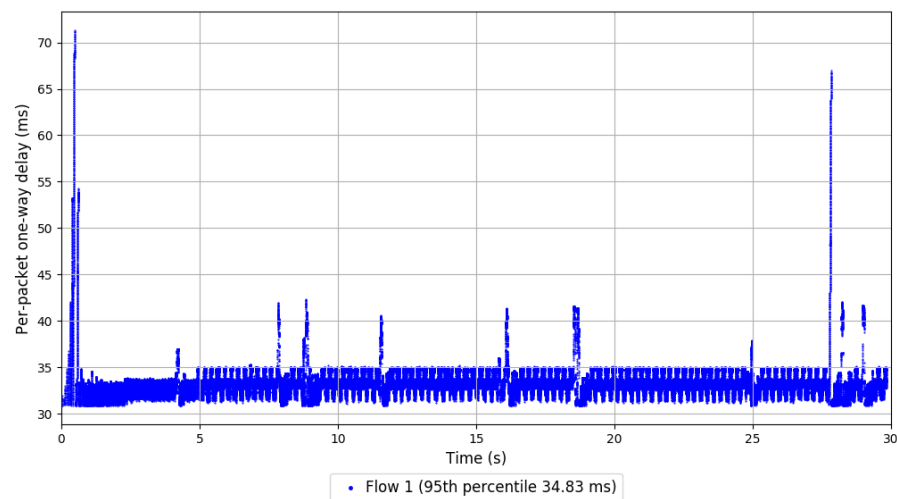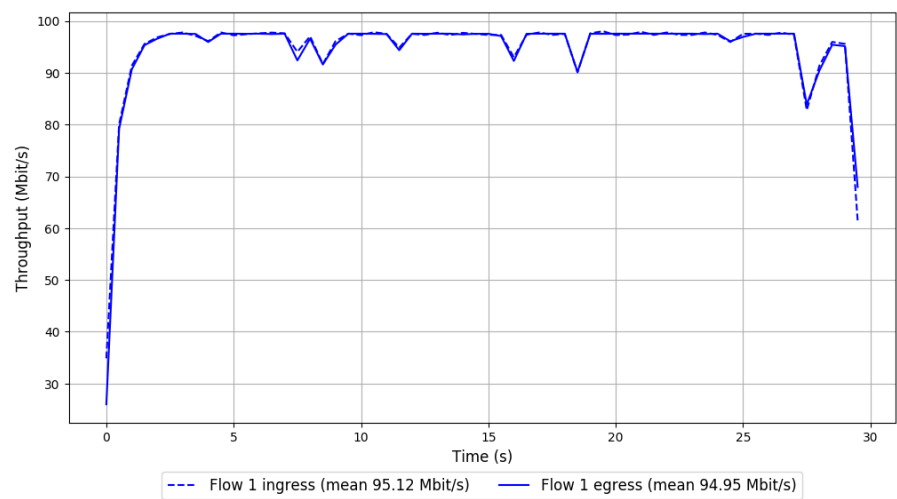
Run 2: Report of Indigo-1-32 — Data Link

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

Start at: 2018-02-02 13:42:41
End at: 2018-02-02 13:43:11
Local clock offset: 1.035 ms
Remote clock offset: -0.643 ms


# Below is generated by plot.py at 2018-02-02 17:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 34.830 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 94.95 Mbit/s
95th percentile per-packet one-way delay: 34.830 ms
Loss rate: 0.17%
```

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

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

Start at: 2018-02-02 14:07:16
End at: 2018-02-02 14:07:46
Local clock offset: 1.114 ms
Remote clock offset: -2.896 ms


# Below is generated by plot.py at 2018-02-02 17:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 32.497 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 32.497 ms
Loss rate: 0.27%
```
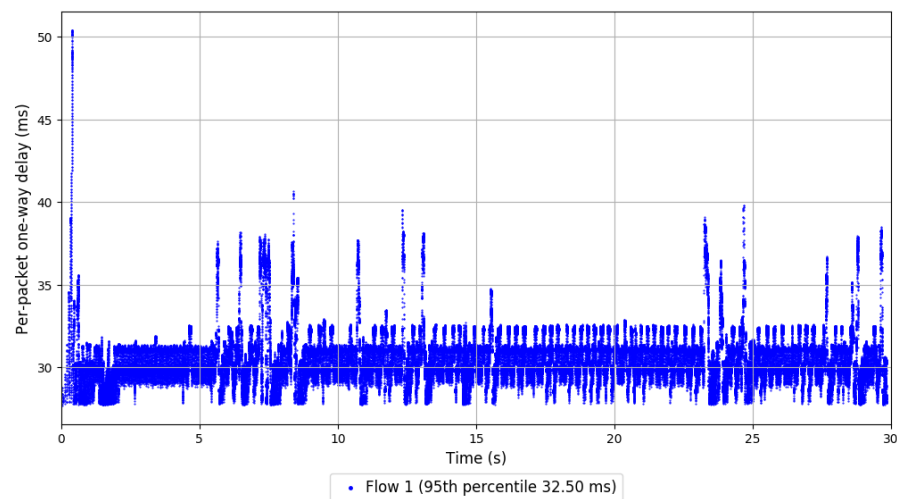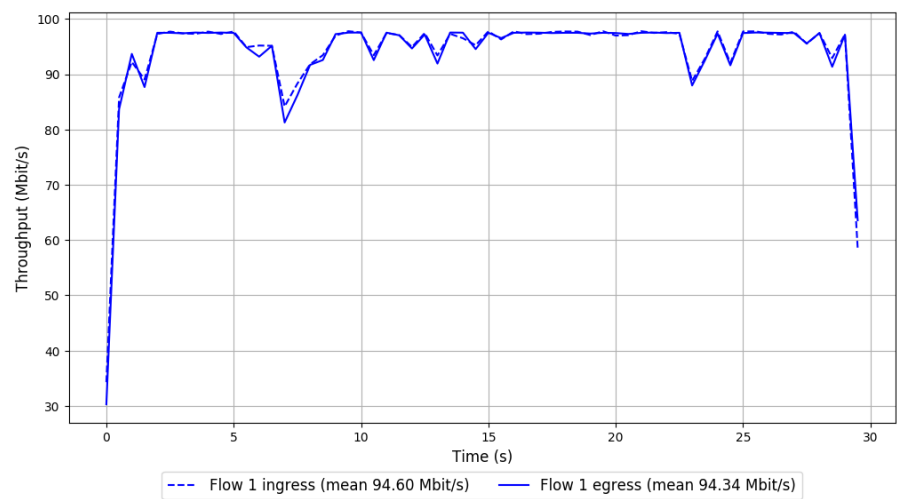
Run 4: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 94.60 Mbit/s)   Flow 1 egress (mean 94.34 Mbit/s)

Flow 1 (95th percentile 32.50 ms)

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

Start at: 2018-02-02 14:31:35
End at: 2018-02-02 14:32:05
Local clock offset: 0.953 ms
Remote clock offset: -1.407 ms


# Below is generated by plot.py at 2018-02-02 17:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.09 Mbit/s
95th percentile per-packet one-way delay: 33.762 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 80.09 Mbit/s
95th percentile per-packet one-way delay: 33.762 ms
Loss rate: 0.09%
```
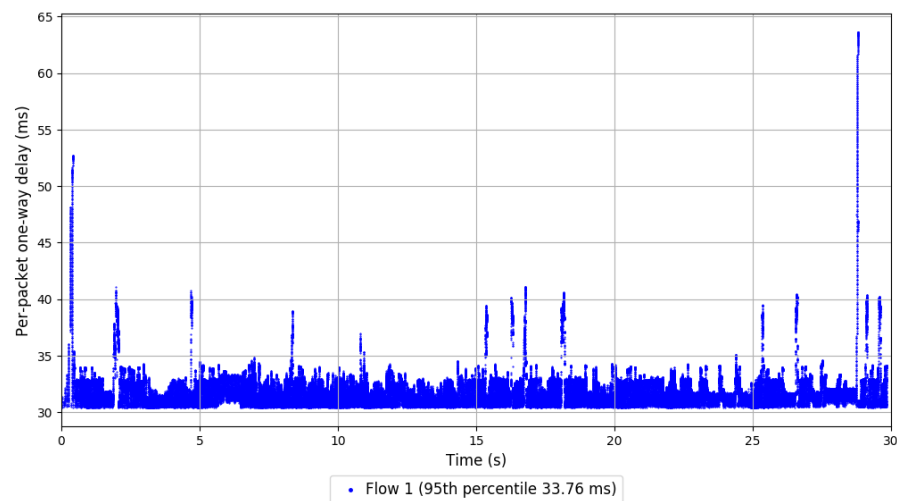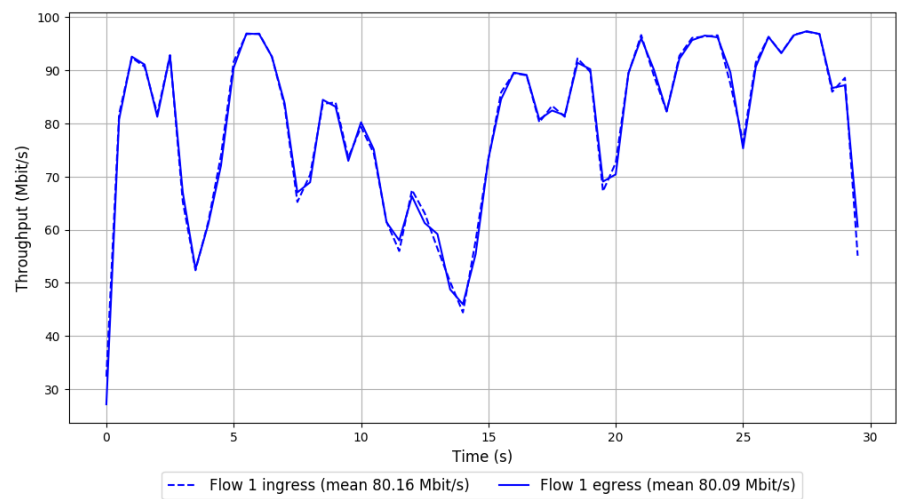
Run 5: Report of Indigo-1-32 — Data Link

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

Start at: 2018-02-02 14:56:04
End at: 2018-02-02 14:56:34
Local clock offset: 0.736 ms
Remote clock offset: -1.292 ms


# Below is generated by plot.py at 2018-02-02 17:41:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 34.877 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 34.877 ms
Loss rate: 0.22%
```
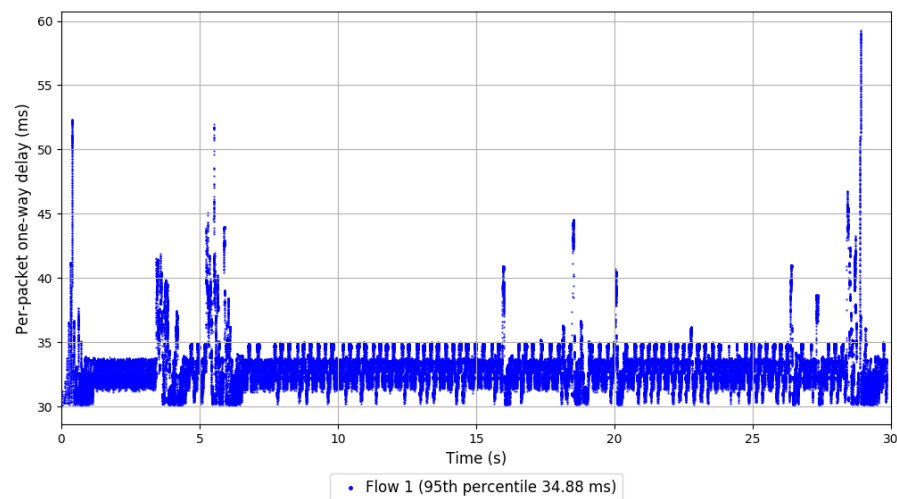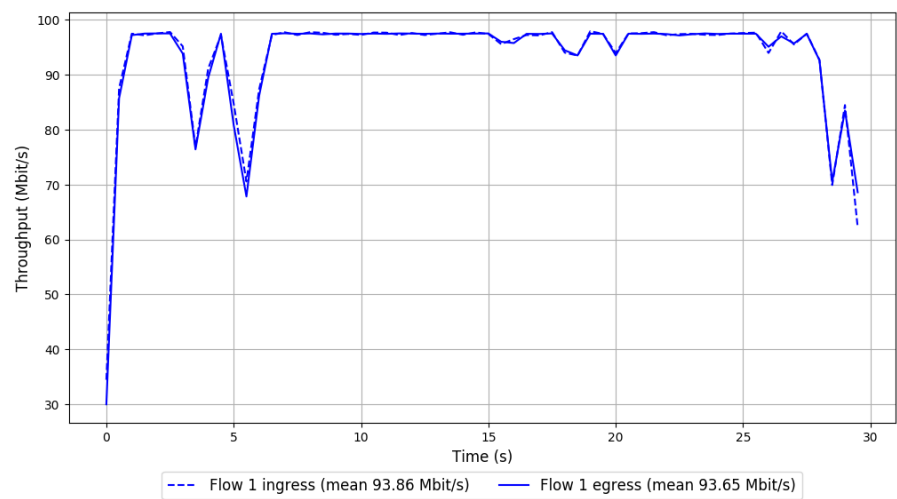
Run 6: Report of Indigo-1-32 — Data Link

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

Start at: 2018-02-02 15:20:44
End at: 2018-02-02 15:21:14
Local clock offset: 0.489 ms
Remote clock offset: -1.895 ms


# Below is generated by plot.py at 2018-02-02 17:41:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 33.893 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 86.60 Mbit/s
95th percentile per-packet one-way delay: 33.893 ms
Loss rate: 0.12%
```
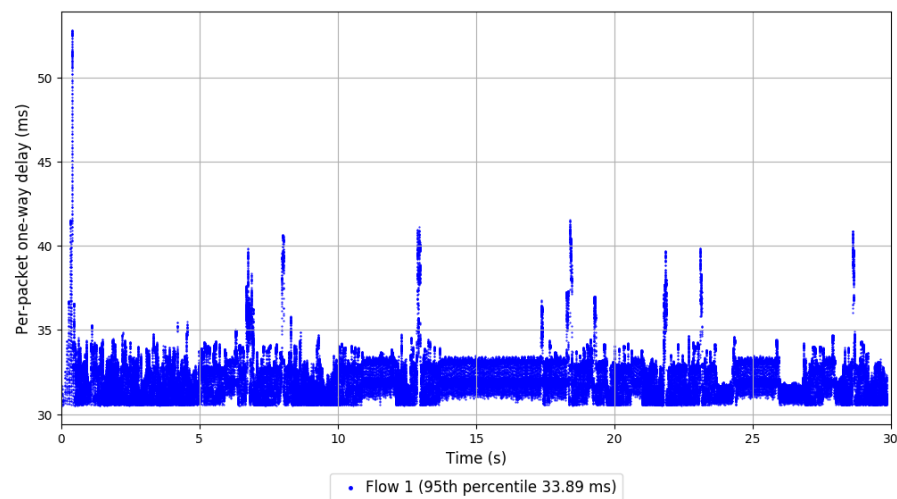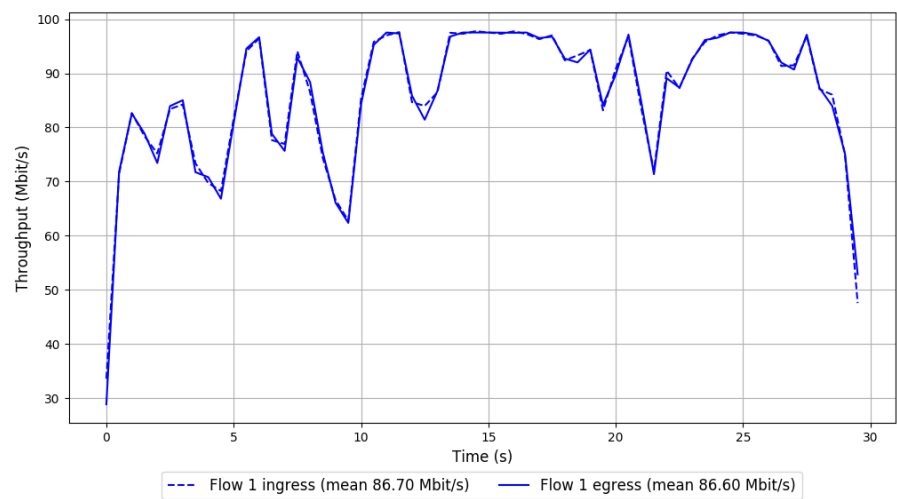
Run 7: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 86.70 Mbit/s)   Flow 1 egress (mean 86.60 Mbit/s)
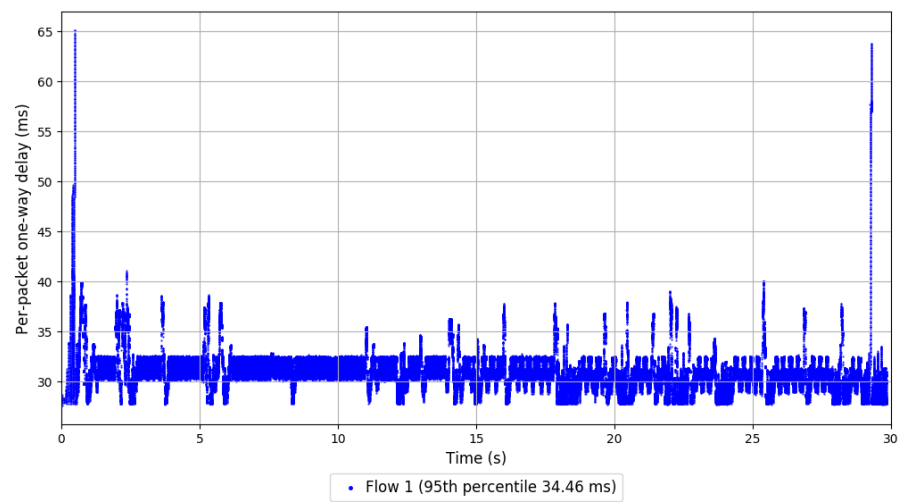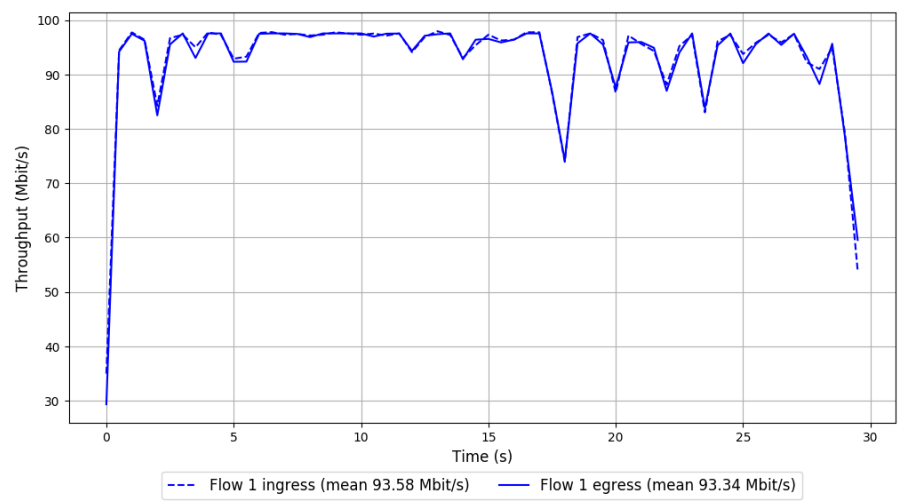
Flow 1 (95th percentile 33.89 ms)

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

Start at: 2018-02-02 15:46:09
End at: 2018-02-02 15:46:39
Local clock offset: 0.205 ms
Remote clock offset: -4.482 ms


# Below is generated by plot.py at 2018-02-02 17:41:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 34.458 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 93.34 Mbit/s
95th percentile per-packet one-way delay: 34.458 ms
Loss rate: 0.25%
```

Run 8: Report of Indigo-1-32 — Data Link

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

Start at: 2018-02-02 16:10:55
End at: 2018-02-02 16:11:25
Local clock offset: 0.073 ms
Remote clock offset: -2.579 ms


# Below is generated by plot.py at 2018-02-02 17:41:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 34.184 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.93 Mbit/s
95th percentile per-packet one-way delay: 34.184 ms
Loss rate: 0.08%
```
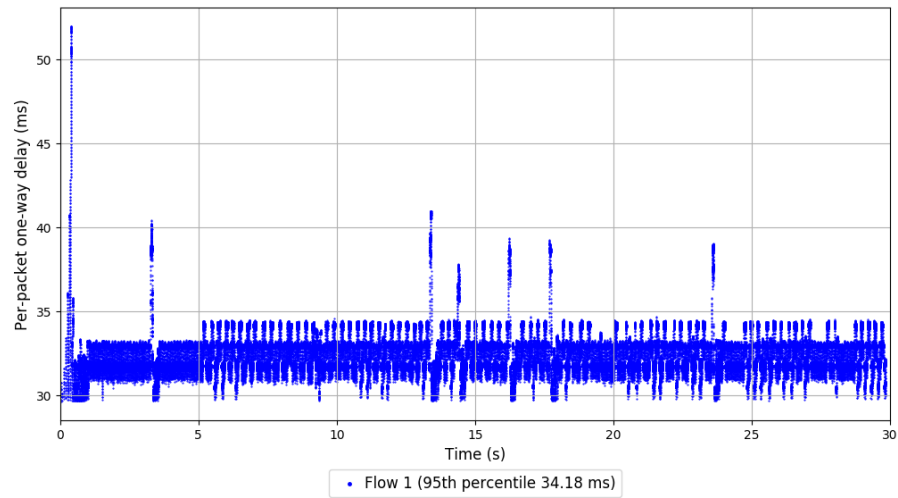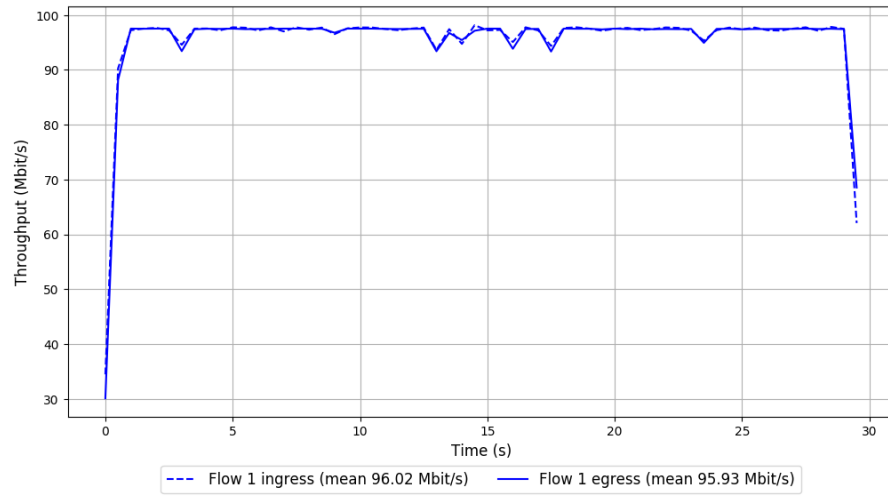
Run 9: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 96.02 Mbit/s) --- Flow 1 egress (mean 95.93 Mbit/s)
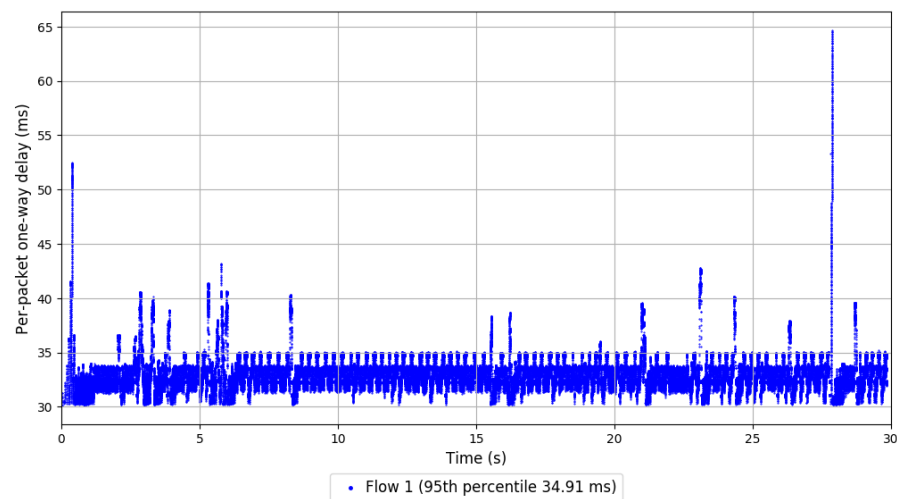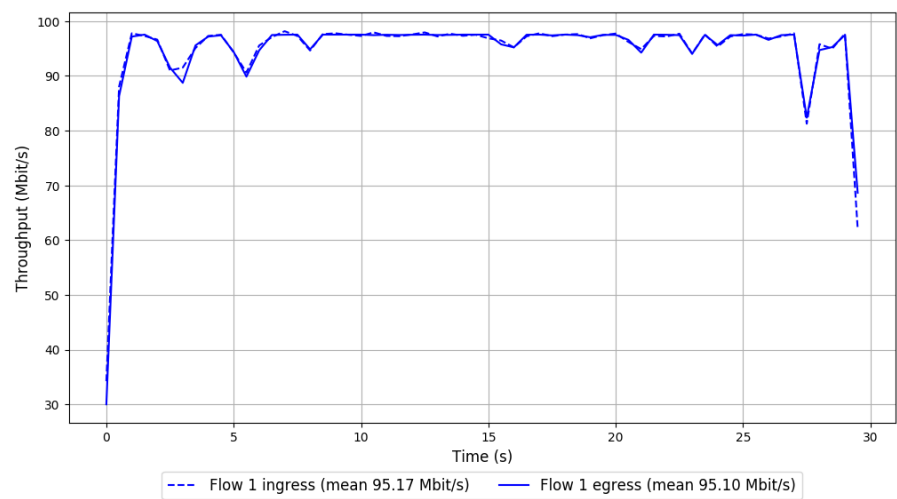

Flow 1 (95th percentile 34.18 ms)

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

Start at: 2018-02-02 16:35:01
End at: 2018-02-02 16:35:31
Local clock offset: -0.107 ms
Remote clock offset: -2.372 ms


# Below is generated by plot.py at 2018-02-02 17:42:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 34.906 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 34.906 ms
Loss rate: 0.07%
```
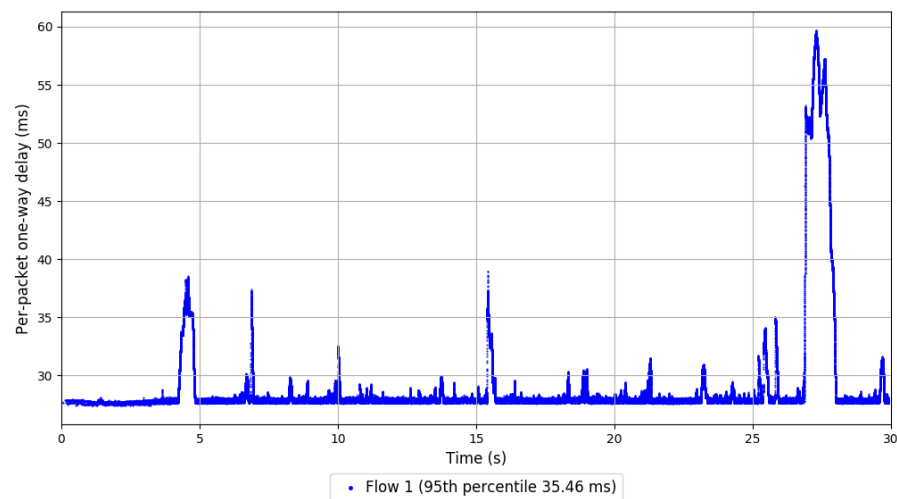
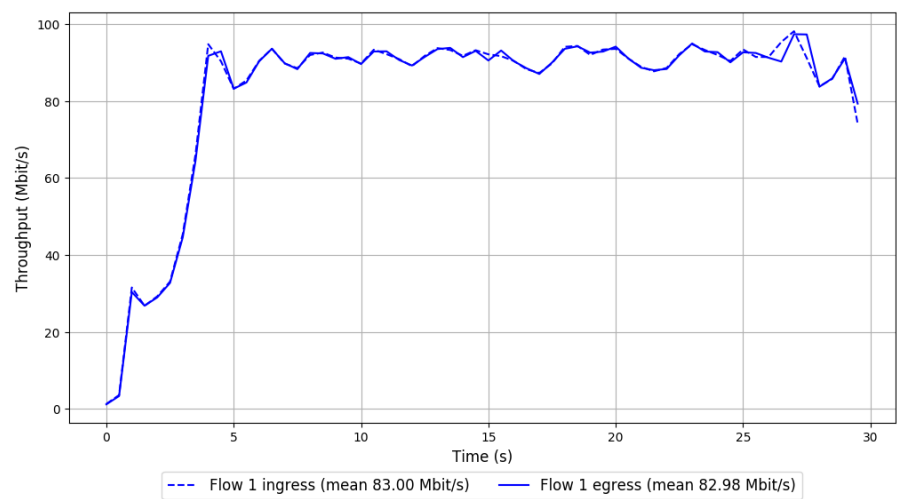Run 10: Report of Indigo-1-32 — Data Link

```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-02 12:50:15
End at: 2018-02-02 12:50:45
Local clock offset: 1.022 ms
Remote clock offset: -2.048 ms


# Below is generated by plot.py at 2018-02-02 17:42:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.98 Mbit/s
95th percentile per-packet one-way delay: 35.463 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 82.98 Mbit/s
95th percentile per-packet one-way delay: 35.463 ms
Loss rate: 0.02%
```

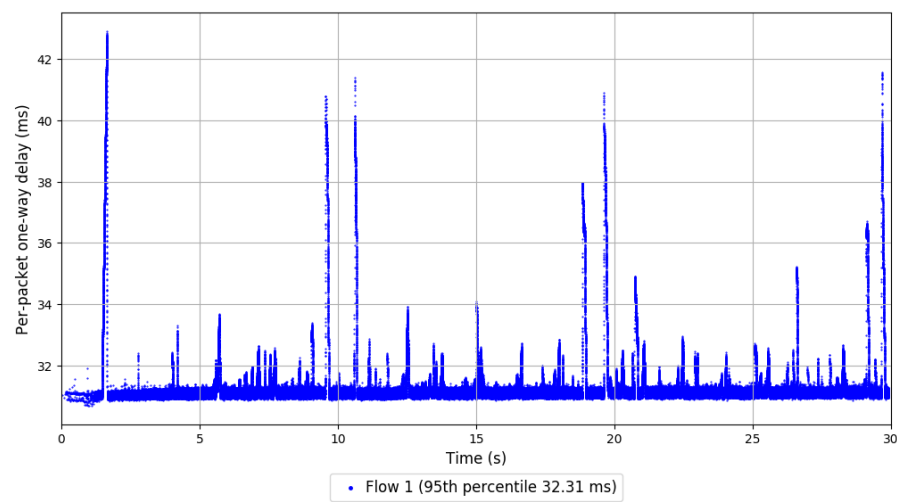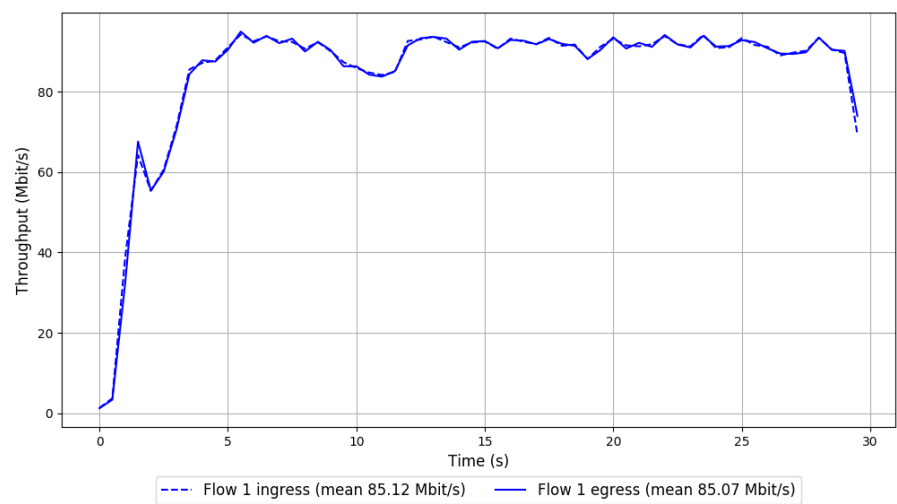Run 1: Report of Vivace-latency — Data Link

```
Run 2: Statistics of Vivace-latency

Start at: 2018-02-02 13:14:27
End at: 2018-02-02 13:14:57
Local clock offset: 1.262 ms
Remote clock offset: -0.003 ms


# Below is generated by plot.py at 2018-02-02 17:42:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 32.310 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 32.310 ms
Loss rate: 0.06%
```

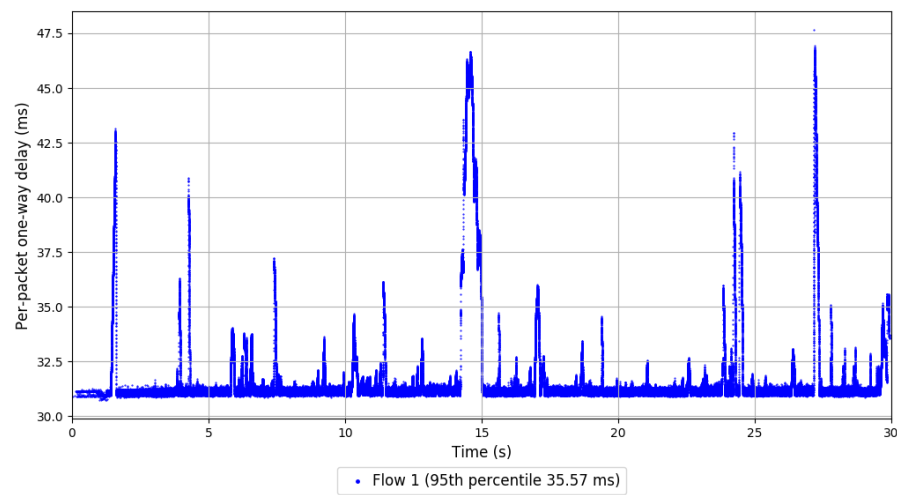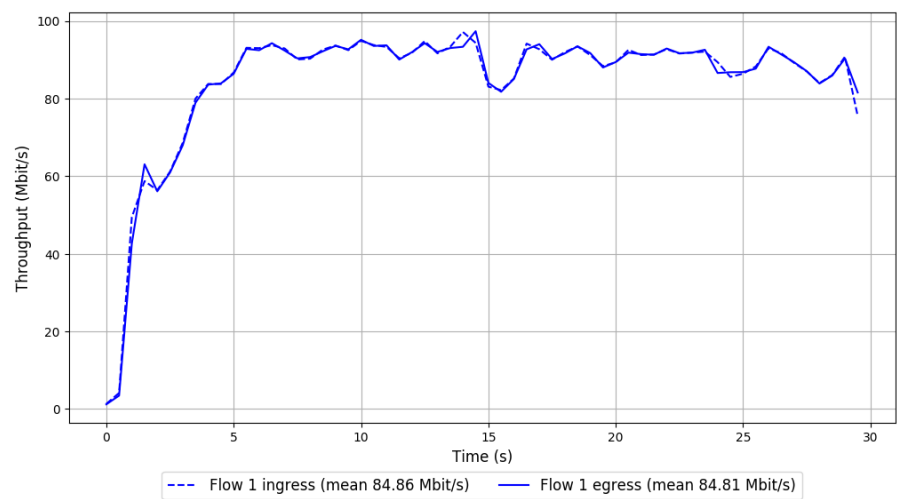Run 2: Report of Vivace-latency — Data Link

```
Run 3: Statistics of Vivace-latency

Start at: 2018-02-02 13:38:35
End at: 2018-02-02 13:39:05
Local clock offset: 1.027 ms
Remote clock offset: -0.561 ms


# Below is generated by plot.py at 2018-02-02 17:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 35.573 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 35.573 ms
Loss rate: 0.05%
```

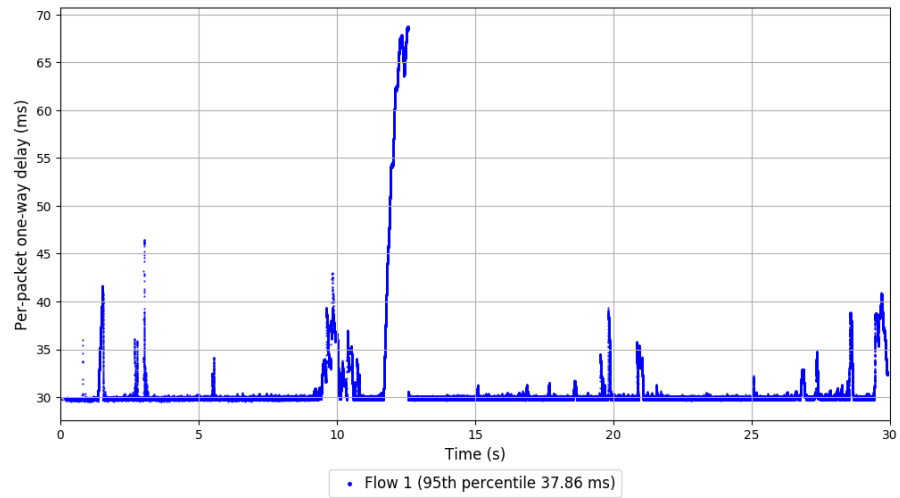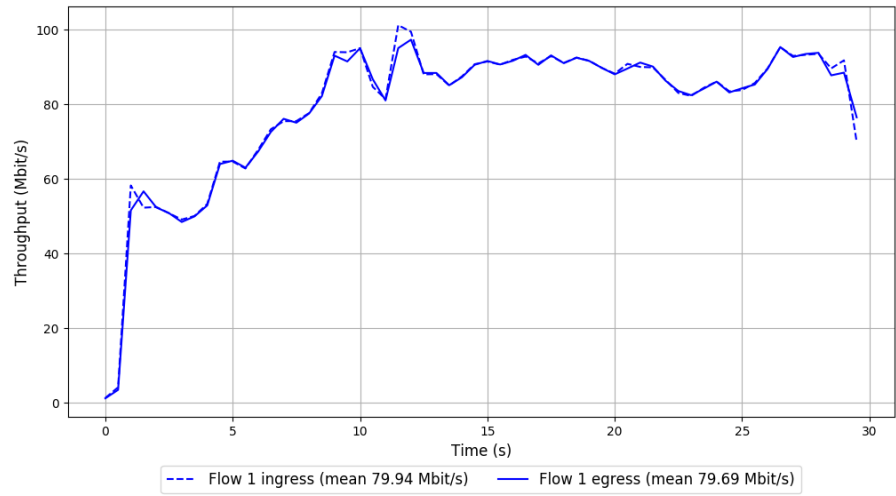# Run 3: Report of Vivace-latency — Data Link

```
Run 4: Statistics of Vivace-latency

Start at: 2018-02-02 14:03:06
End at: 2018-02-02 14:03:36
Local clock offset: 1.191 ms
Remote clock offset: -0.857 ms


# Below is generated by plot.py at 2018-02-02 17:42:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.69 Mbit/s
95th percentile per-packet one-way delay: 37.857 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 79.69 Mbit/s
95th percentile per-packet one-way delay: 37.857 ms
Loss rate: 0.30%
```

Run 4: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 79.94 Mbit/s)   Flow 1 egress (mean 79.69 Mbit/s)

• Flow 1 (95th percentile 37.86 ms)

```
Run 5: Statistics of Vivace-latency

Start at: 2018-02-02 14:27:32
End at: 2018-02-02 14:28:02
Local clock offset: 0.912 ms
Remote clock offset: -3.35 ms


# Below is generated by plot.py at 2018-02-02 17:42:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.47 Mbit/s
95th percentile per-packet one-way delay: 36.169 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 74.47 Mbit/s
95th percentile per-packet one-way delay: 36.169 ms
Loss rate: 0.23%
```
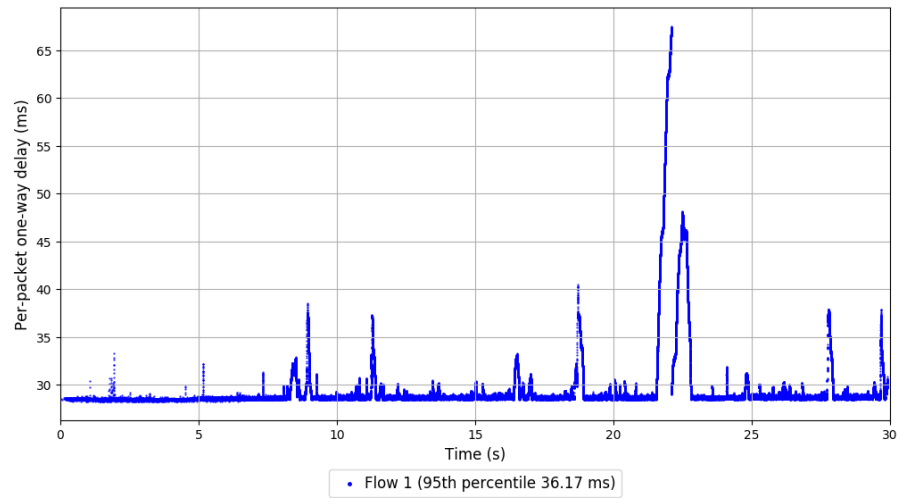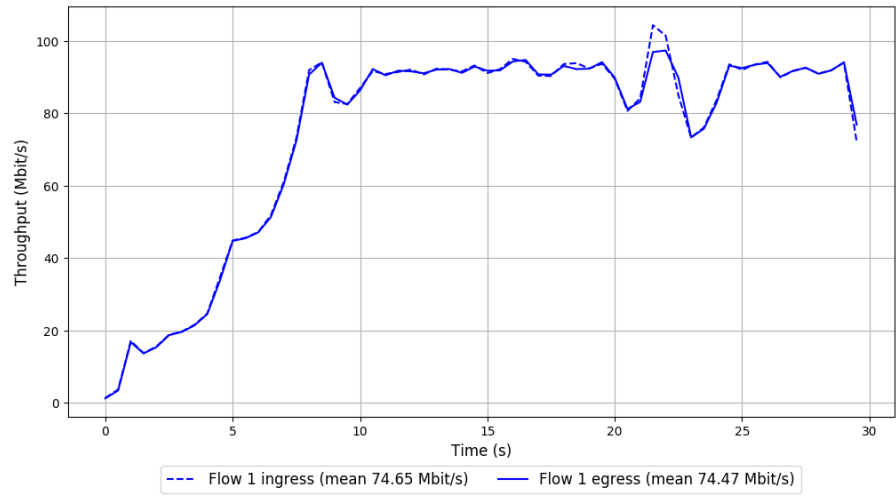
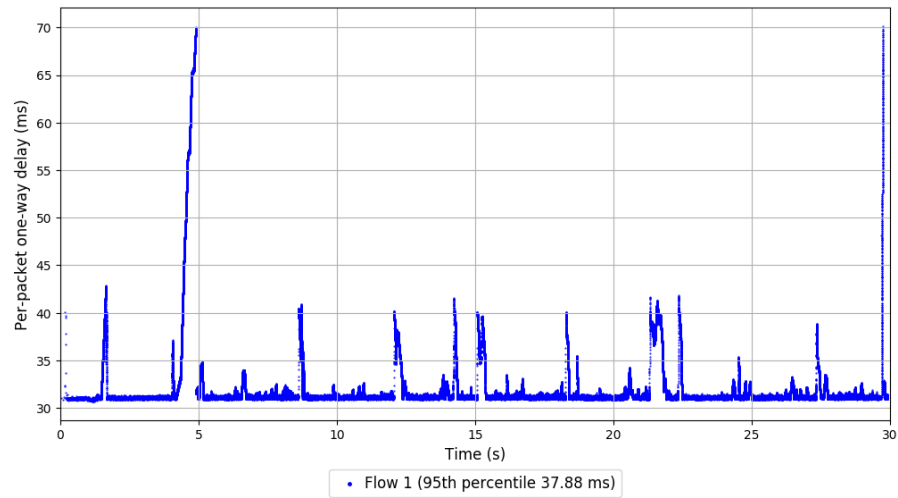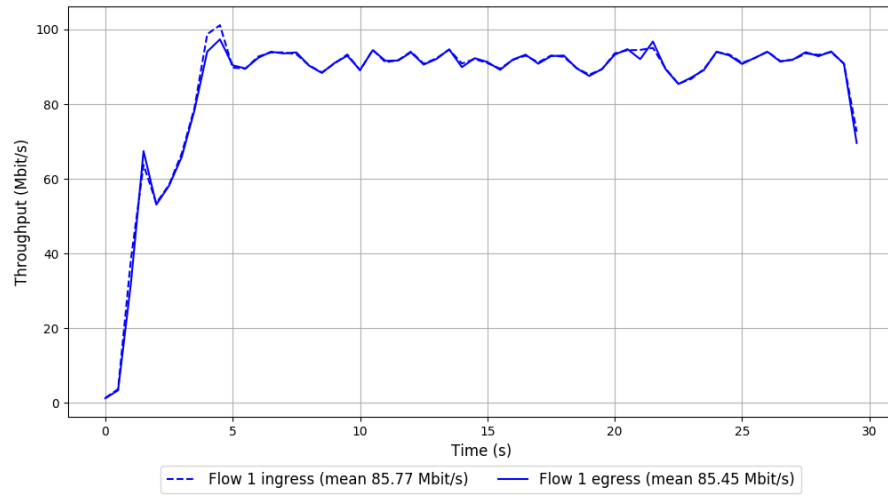Run 5: Report of Vivace-latency — Data Link

```
Run 6: Statistics of Vivace-latency

Start at: 2018-02-02 14:52:01
End at: 2018-02-02 14:52:31
Local clock offset: 0.701 ms
Remote clock offset: -1.239 ms


# Below is generated by plot.py at 2018-02-02 17:43:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.45 Mbit/s
95th percentile per-packet one-way delay: 37.878 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 85.45 Mbit/s
95th percentile per-packet one-way delay: 37.878 ms
Loss rate: 0.37%
```

Run 6: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 85.77 Mbit/s)   Flow 1 egress (mean 85.45 Mbit/s)

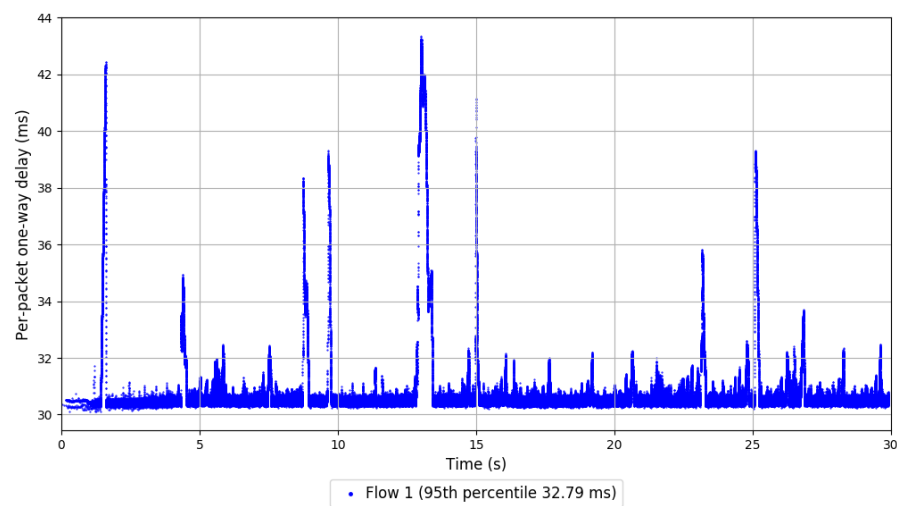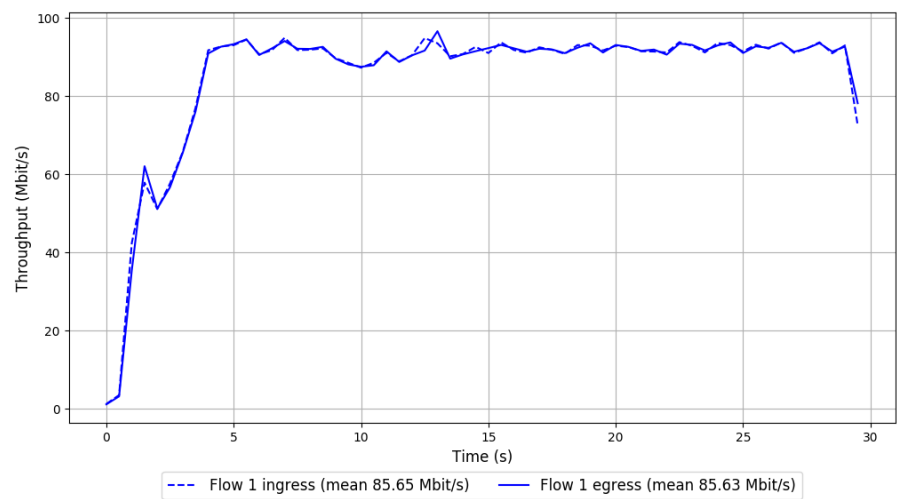

• Flow 1 (95th percentile 37.88 ms)

```
Run 7: Statistics of Vivace-latency

Start at: 2018-02-02 15:16:33
End at: 2018-02-02 15:17:03
Local clock offset: 0.418 ms
Remote clock offset: -1.525 ms


# Below is generated by plot.py at 2018-02-02 17:43:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 32.786 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 32.786 ms
Loss rate: 0.03%
```

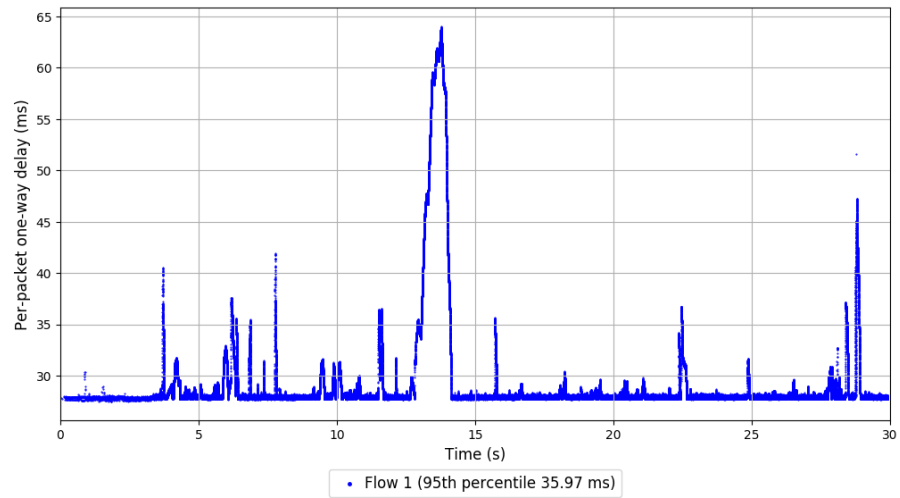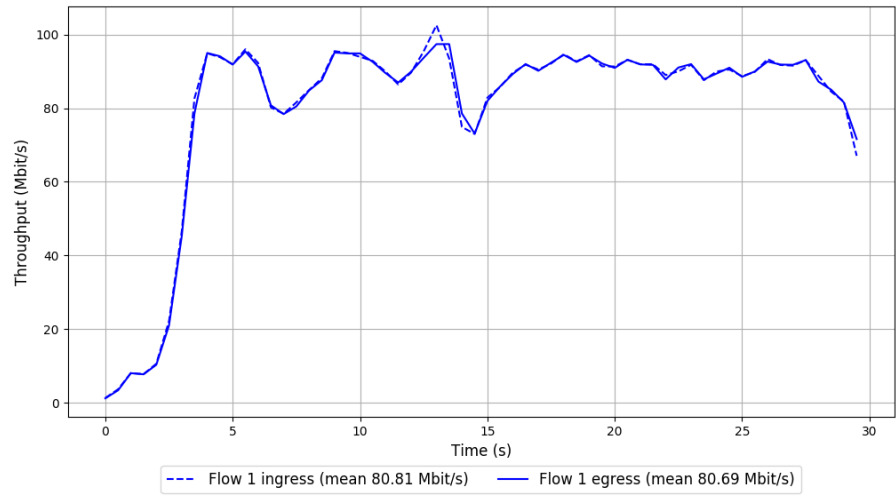Run 7: Report of Vivace-latency — Data Link

```
Run 8: Statistics of Vivace-latency

Start at: 2018-02-02 15:41:58
End at: 2018-02-02 15:42:28
Local clock offset: 0.272 ms
Remote clock offset: -4.454 ms


# Below is generated by plot.py at 2018-02-02 17:43:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.69 Mbit/s
95th percentile per-packet one-way delay: 35.969 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 80.69 Mbit/s
95th percentile per-packet one-way delay: 35.969 ms
Loss rate: 0.14%
```

Run 8: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 80.81 Mbit/s)   Flow 1 egress (mean 80.69 Mbit/s)

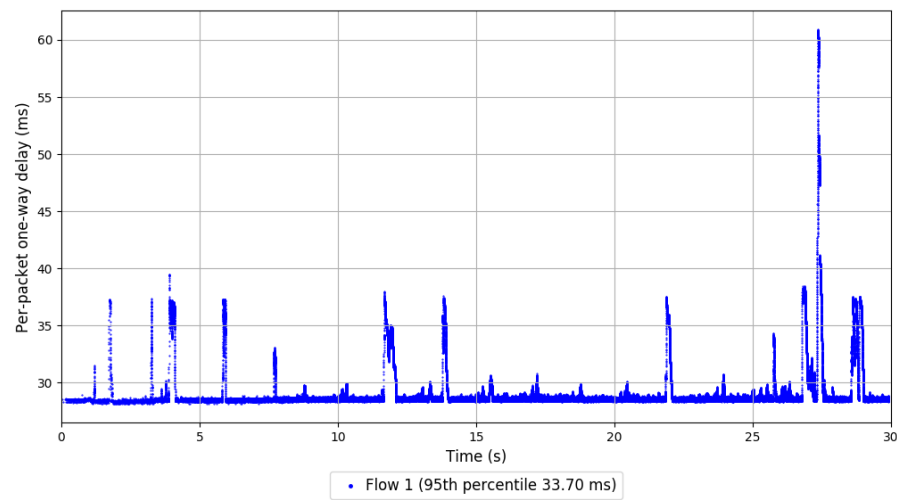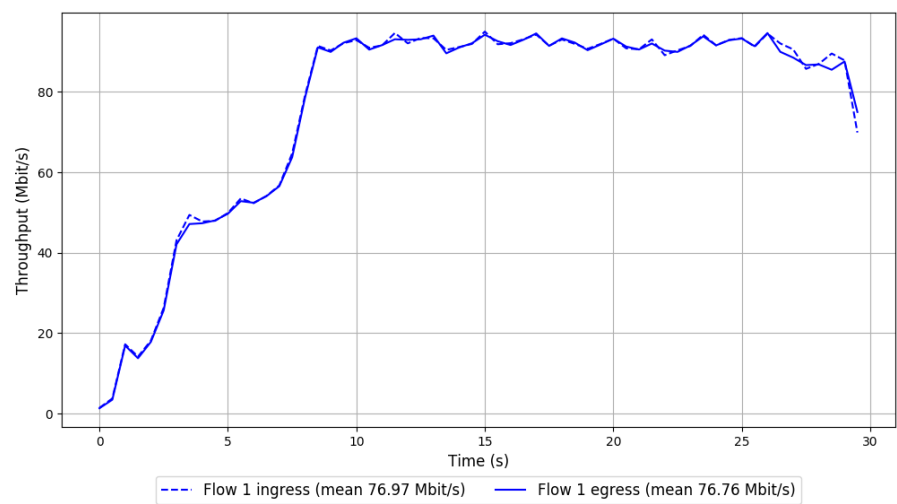

• Flow 1 (95th percentile 35.97 ms)

```
Run 9: Statistics of Vivace-latency

Start at: 2018-02-02 16:06:58
End at: 2018-02-02 16:07:28
Local clock offset: 0.063 ms
Remote clock offset: -4.519 ms


# Below is generated by plot.py at 2018-02-02 17:43:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 33.702 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 33.702 ms
Loss rate: 0.28%
```

Run 9: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 76.97 Mbit/s)   Flow 1 egress (mean 76.76 Mbit/s)

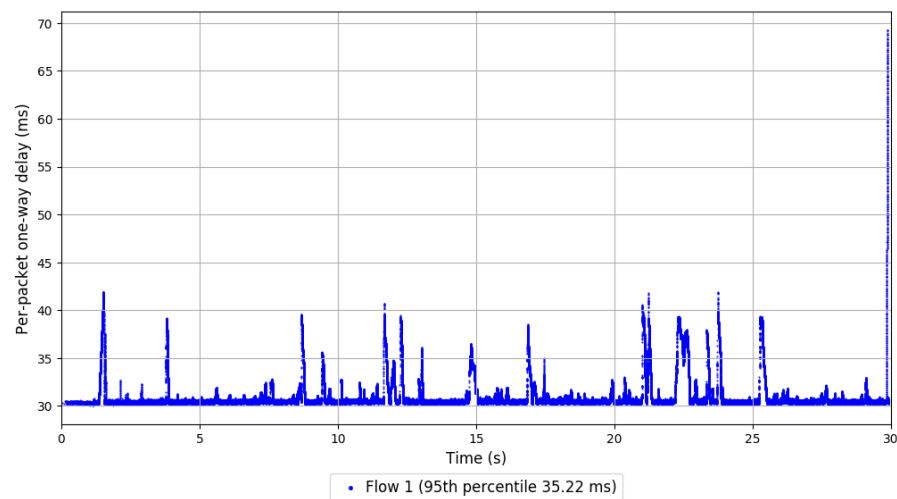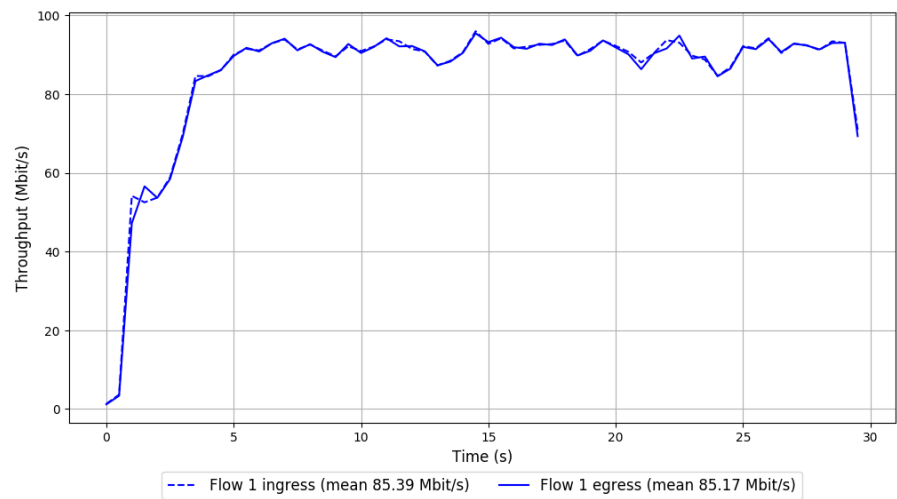Flow 1 (95th percentile 33.70 ms)

301

```
Run 10: Statistics of Vivace-latency

Start at: 2018-02-02 16:30:58
End at: 2018-02-02 16:31:28
Local clock offset: -0.182 ms
Remote clock offset: -2.442 ms


# Below is generated by plot.py at 2018-02-02 17:43:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 35.216 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 85.17 Mbit/s
95th percentile per-packet one-way delay: 35.216 ms
Loss rate: 0.25%
```

Run 10: Report of Vivace-latency — Data Link

Flow 1 ingress (mean 85.39 Mbit/s)   Flow 1 egress (mean 85.17 Mbit/s)

• Flow 1 (95th percentile 35.22 ms)

303

```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-02 13:03:51
End at: 2018-02-02 13:04:21
Local clock offset: 0.99 ms
Remote clock offset: 0.158 ms


# Below is generated by plot.py at 2018-02-02 17:43:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.52 Mbit/s
95th percentile per-packet one-way delay: 63.423 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 78.52 Mbit/s
95th percentile per-packet one-way delay: 63.423 ms
Loss rate: 4.35%
```
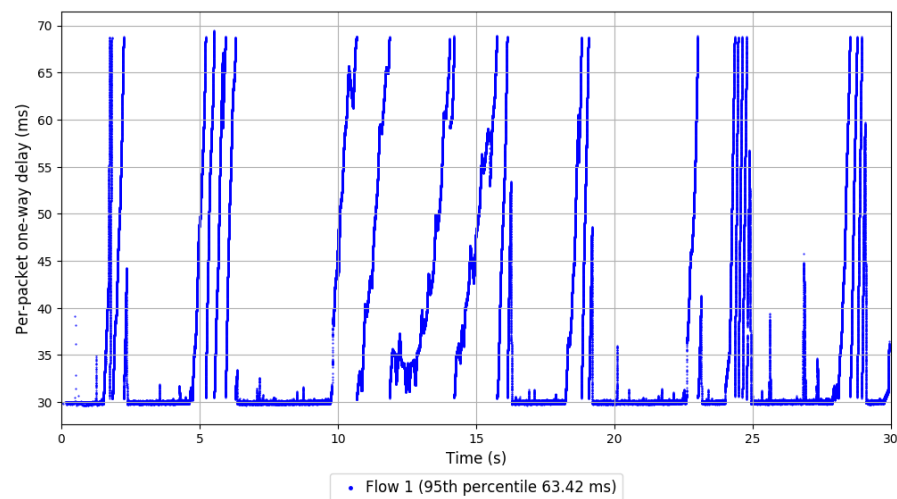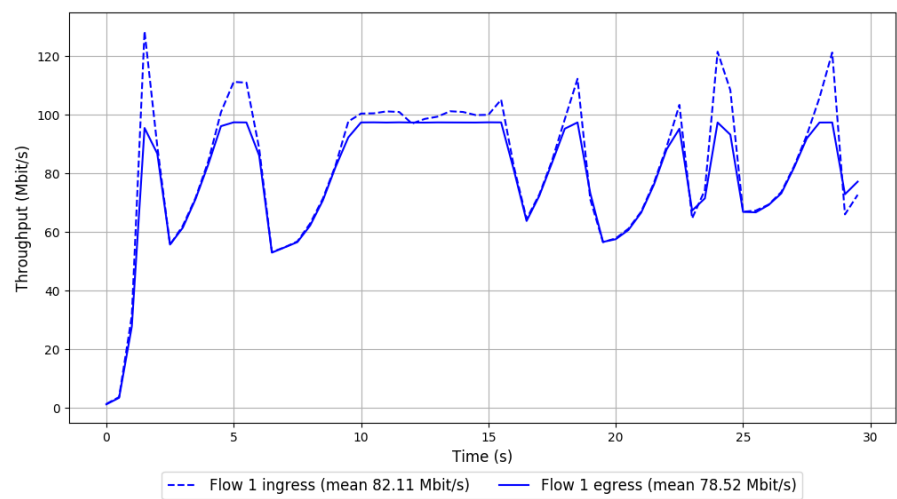
Run 1: Report of Vivace-loss — Data Link

```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-02 13:27:54
End at: 2018-02-02 13:28:24
Local clock offset: 1.051 ms
Remote clock offset: -0.942 ms


# Below is generated by plot.py at 2018-02-02 17:43:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.10 Mbit/s
95th percentile per-packet one-way delay: 63.316 ms
Loss rate: 4.93%
-- Flow 1:
Average throughput: 76.10 Mbit/s
95th percentile per-packet one-way delay: 63.316 ms
Loss rate: 4.93%
```
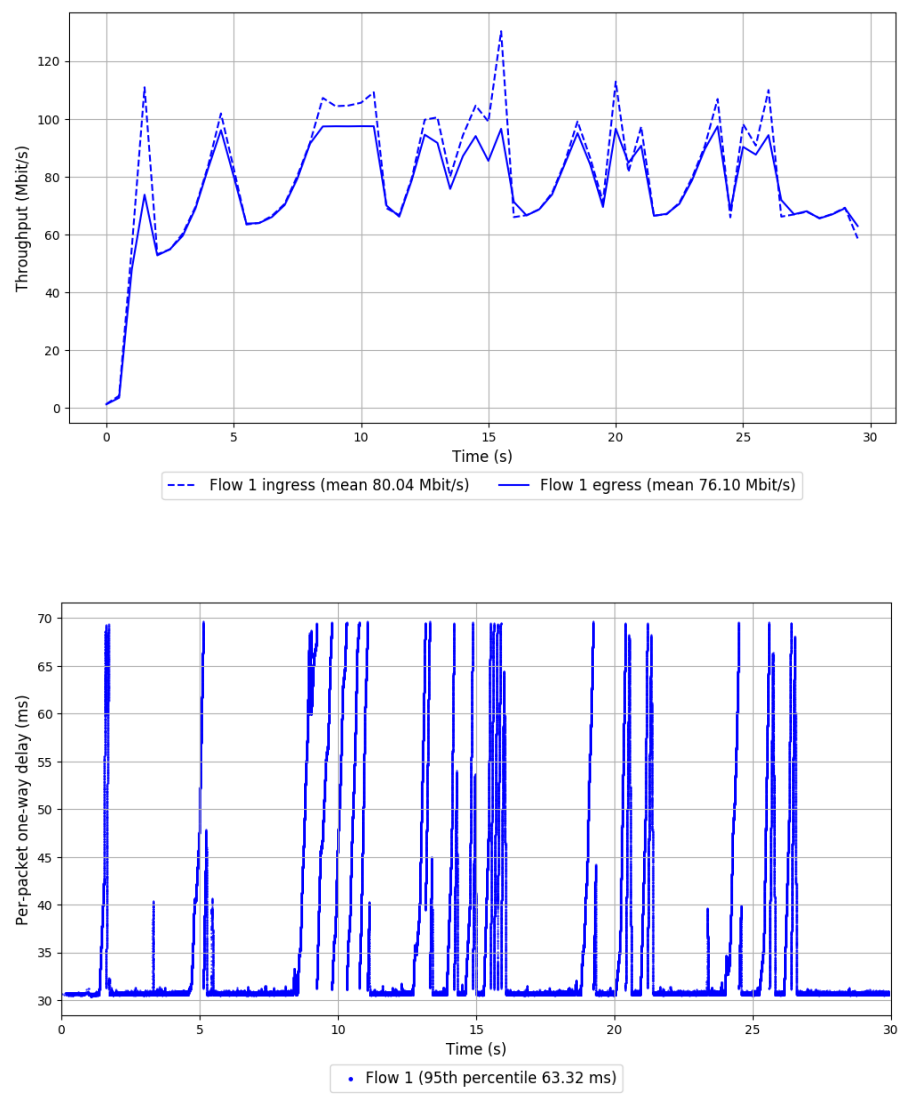
Run 2: Report of Vivace-loss — Data Link

```
Run 3: Statistics of Vivace-loss

Start at: 2018-02-02 13:52:19
End at: 2018-02-02 13:52:49
Local clock offset: 1.13 ms
Remote clock offset: -3.12 ms


# Below is generated by plot.py at 2018-02-02 17:44:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.56 Mbit/s
95th percentile per-packet one-way delay: 63.932 ms
Loss rate: 4.88%
-- Flow 1:
Average throughput: 89.56 Mbit/s
95th percentile per-packet one-way delay: 63.932 ms
Loss rate: 4.88%
```
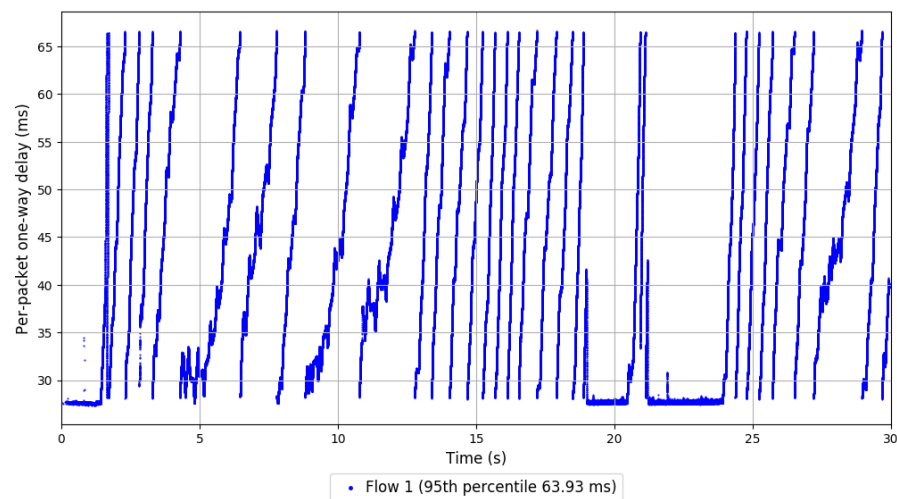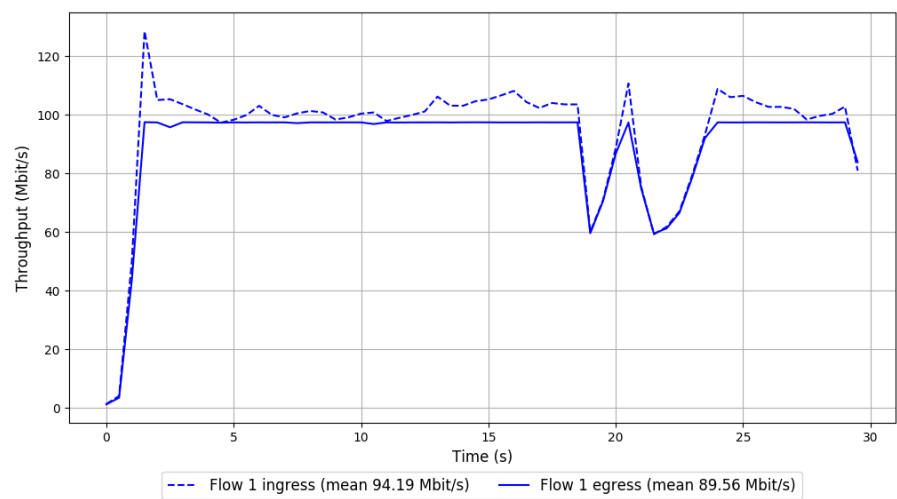
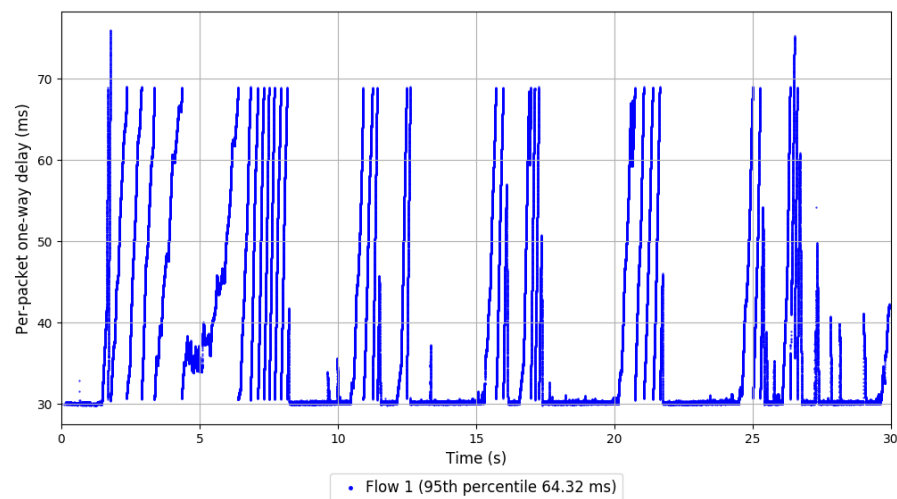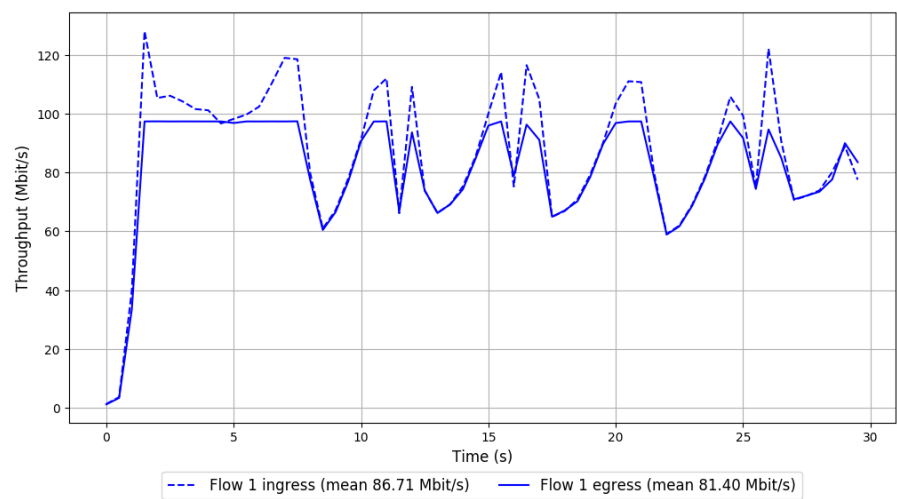Run 3: Report of Vivace-loss — Data Link

```
Run 4: Statistics of Vivace-loss

Start at: 2018-02-02 14:16:40
End at: 2018-02-02 14:17:10
Local clock offset: 1.02 ms
Remote clock offset: -0.829 ms


# Below is generated by plot.py at 2018-02-02 17:44:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.40 Mbit/s
95th percentile per-packet one-way delay: 64.319 ms
Loss rate: 6.08%
-- Flow 1:
Average throughput: 81.40 Mbit/s
95th percentile per-packet one-way delay: 64.319 ms
Loss rate: 6.08%
```

Run 4: Report of Vivace-loss — Data Link

```
Run 5: Statistics of Vivace-loss

Start at: 2018-02-02 14:41:28
End at: 2018-02-02 14:41:58
Local clock offset: 0.832 ms
Remote clock offset: -1.108 ms


# Below is generated by plot.py at 2018-02-02 17:44:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.89 Mbit/s
95th percentile per-packet one-way delay: 65.190 ms
Loss rate: 5.06%
-- Flow 1:
Average throughput: 79.89 Mbit/s
95th percentile per-packet one-way delay: 65.190 ms
Loss rate: 5.06%
```
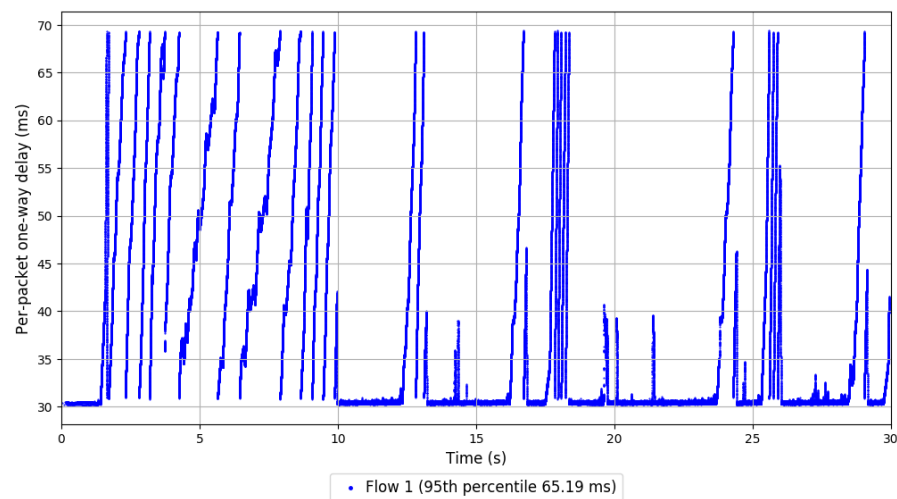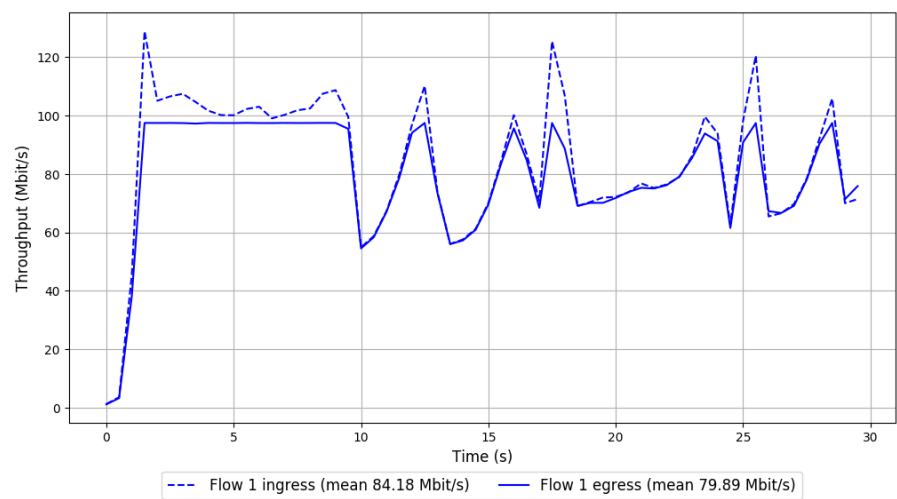
Run 5: Report of Vivace-loss — Data Link

313

```
Run 6: Statistics of Vivace-loss

Start at: 2018-02-02 15:05:34
End at: 2018-02-02 15:06:04
Local clock offset: 0.633 ms
Remote clock offset: -1.849 ms


# Below is generated by plot.py at 2018-02-02 17:44:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.00 Mbit/s
95th percentile per-packet one-way delay: 62.858 ms
Loss rate: 5.26%
-- Flow 1:
Average throughput: 77.00 Mbit/s
95th percentile per-packet one-way delay: 62.858 ms
Loss rate: 5.26%
```
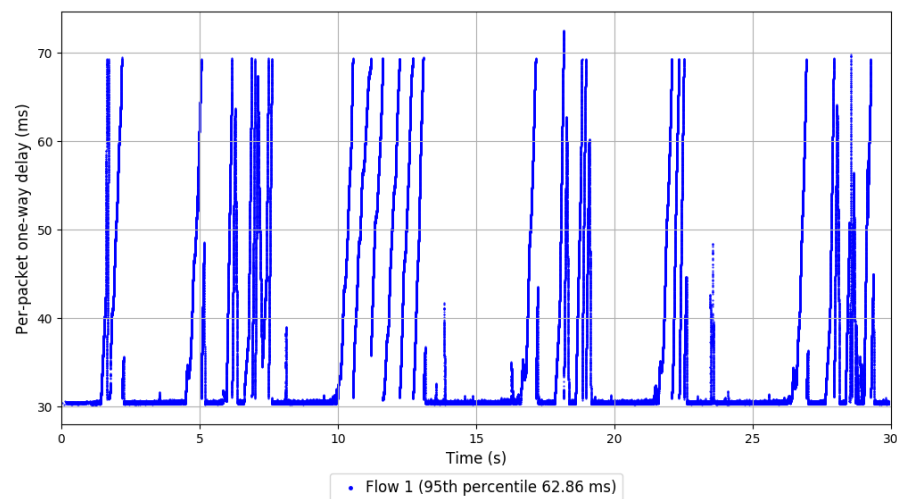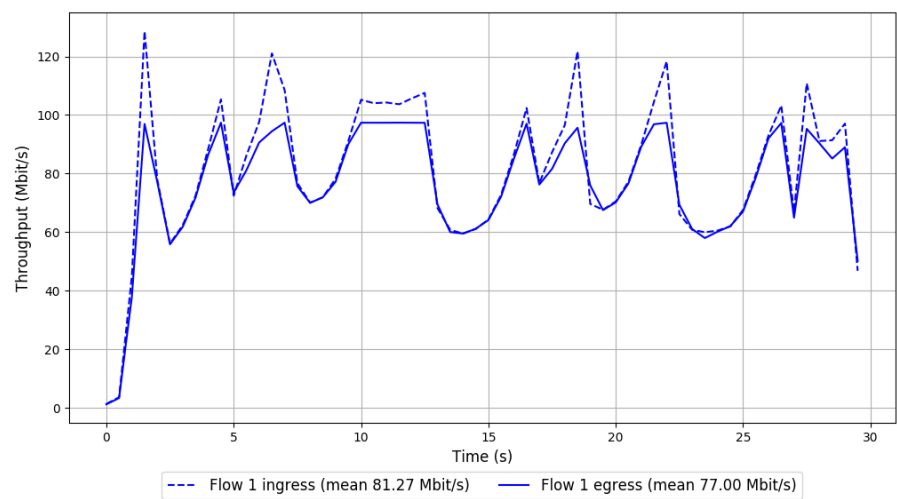
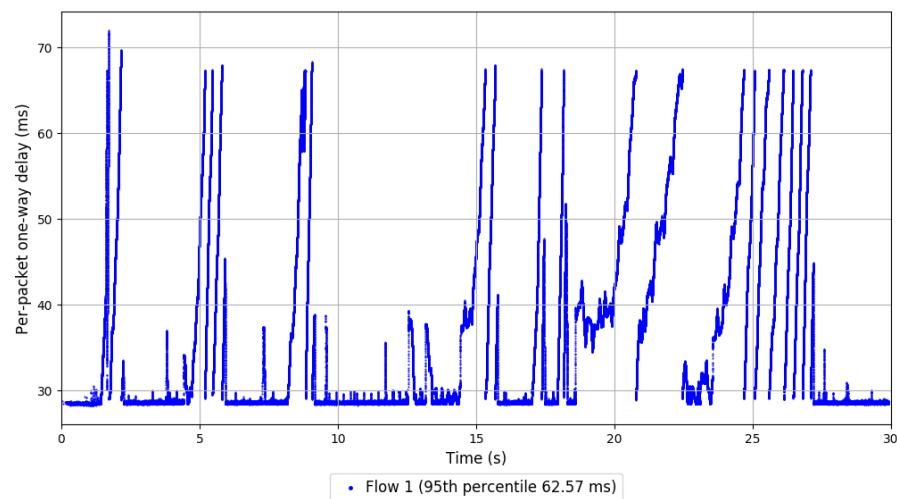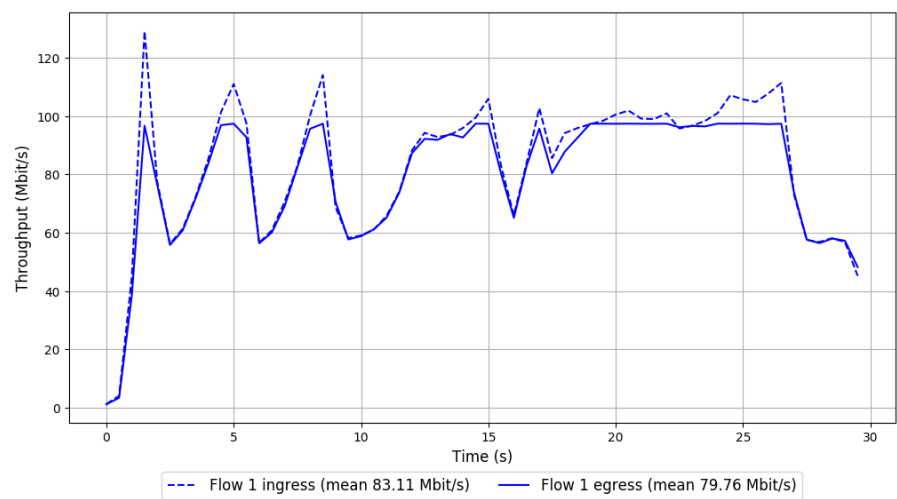Run 6: Report of Vivace-loss — Data Link

```
Run 7: Statistics of Vivace-loss

Start at: 2018-02-02 15:30:40
End at: 2018-02-02 15:31:10
Local clock offset: 0.4 ms
Remote clock offset: -4.341 ms


# Below is generated by plot.py at 2018-02-02 17:44:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.76 Mbit/s
95th percentile per-packet one-way delay: 62.573 ms
Loss rate: 4.04%
-- Flow 1:
Average throughput: 79.76 Mbit/s
95th percentile per-packet one-way delay: 62.573 ms
Loss rate: 4.04%
```

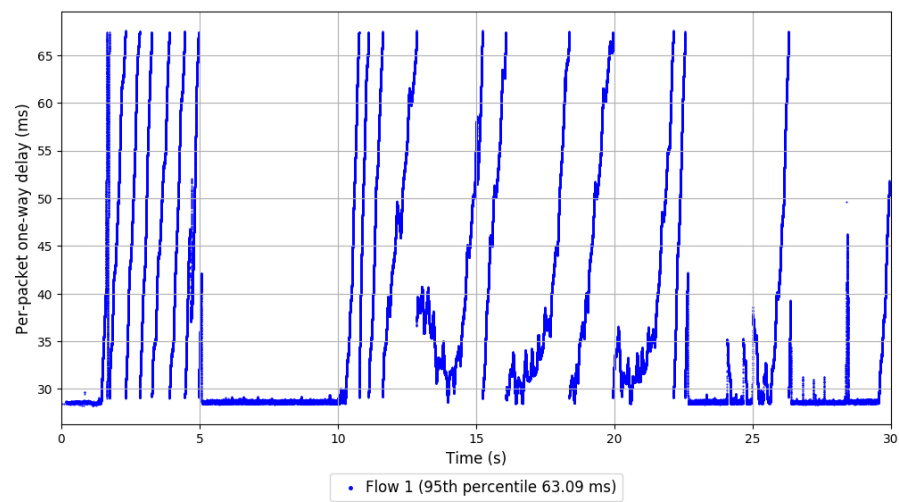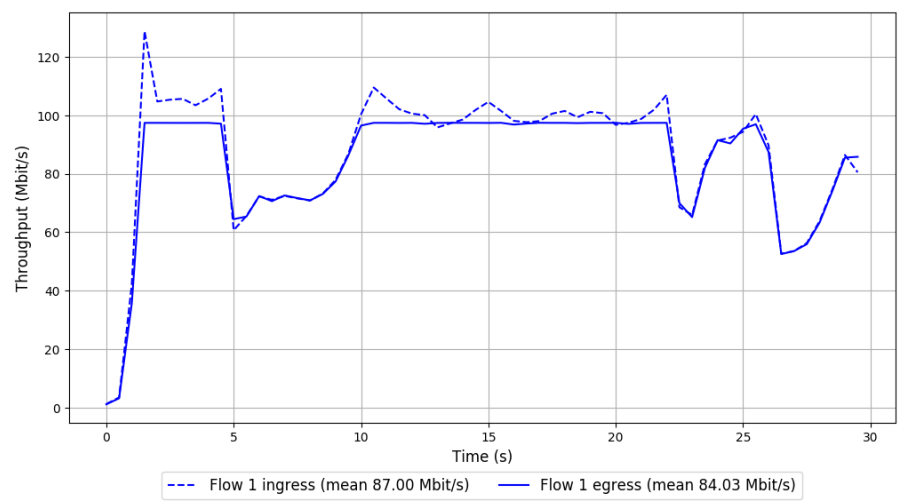Run 7: Report of Vivace-loss — Data Link

```
Run 8: Statistics of Vivace-loss

Start at: 2018-02-02 15:56:05
End at: 2018-02-02 15:56:35
Local clock offset: -0.031 ms
Remote clock offset: -4.561 ms


# Below is generated by plot.py at 2018-02-02 17:45:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.03 Mbit/s
95th percentile per-packet one-way delay: 63.094 ms
Loss rate: 3.34%
-- Flow 1:
Average throughput: 84.03 Mbit/s
95th percentile per-packet one-way delay: 63.094 ms
Loss rate: 3.34%
```

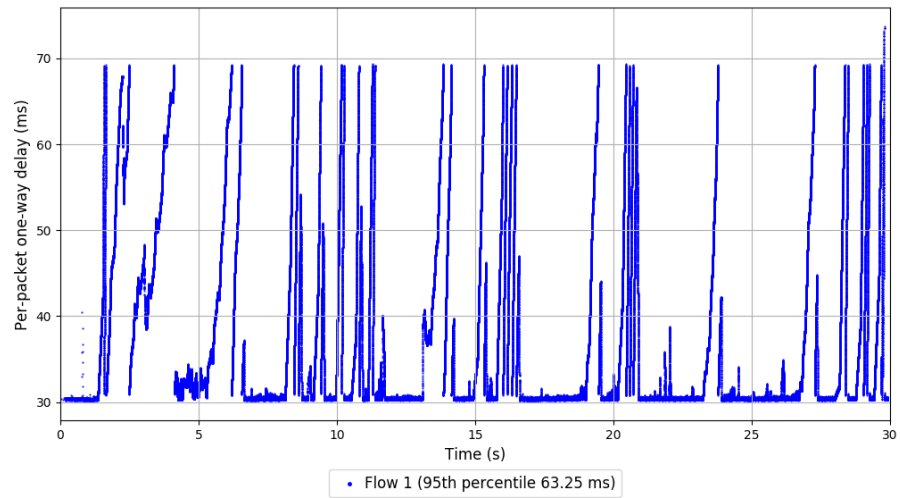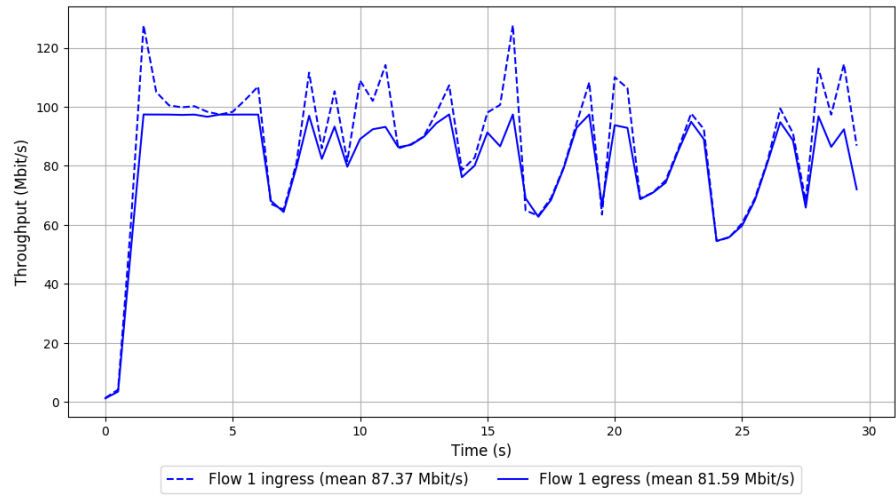Run 8: Report of Vivace-loss — Data Link

```
Run 9: Statistics of Vivace-loss

Start at: 2018-02-02 16:20:16
End at: 2018-02-02 16:20:46
Local clock offset: -0.013 ms
Remote clock offset: -2.409 ms


# Below is generated by plot.py at 2018-02-02 17:45:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.59 Mbit/s
95th percentile per-packet one-way delay: 63.252 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 81.59 Mbit/s
95th percentile per-packet one-way delay: 63.252 ms
Loss rate: 6.61%
```

Run 9: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 87.37 Mbit/s)　　　Flow 1 egress (mean 81.59 Mbit/s)
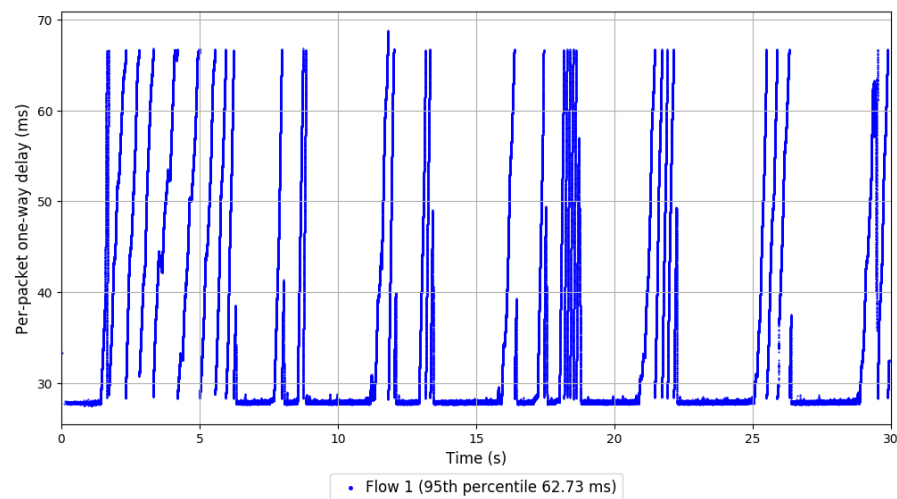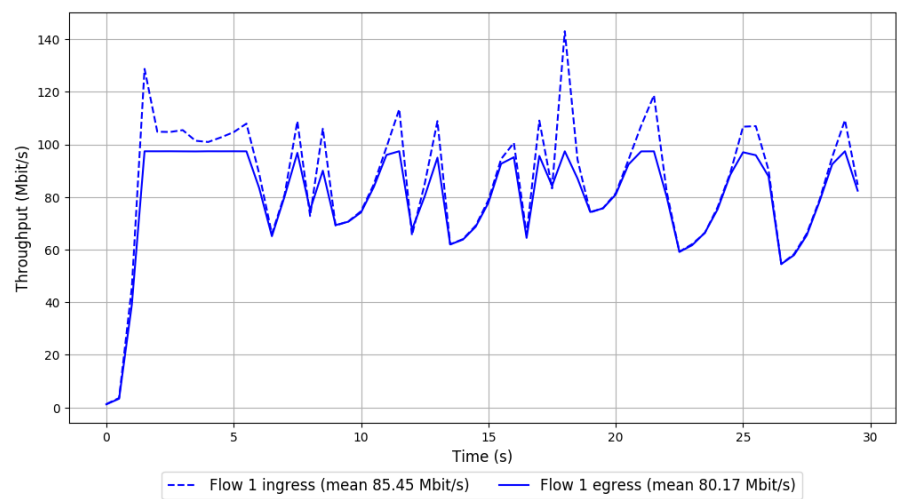

Flow 1 (95th percentile 63.25 ms)

```
Run 10: Statistics of Vivace-loss

Start at: 2018-02-02 16:44:24
End at: 2018-02-02 16:44:54
Local clock offset: -0.281 ms
Remote clock offset: -5.305 ms


# Below is generated by plot.py at 2018-02-02 17:45:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.17 Mbit/s
95th percentile per-packet one-way delay: 62.734 ms
Loss rate: 6.18%
-- Flow 1:
Average throughput: 80.17 Mbit/s
95th percentile per-packet one-way delay: 62.734 ms
Loss rate: 6.18%
```

Run 10: Report of Vivace-loss — Data Link

Flow 1 ingress (mean 85.45 Mbit/s) --- Flow 1 egress (mean 80.17 Mbit/s)

• Flow 1 (95th percentile 62.73 ms)

```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-02 12:58:33
End at: 2018-02-02 12:59:03
Local clock offset: 0.97 ms
Remote clock offset: 0.175 ms


# Below is generated by plot.py at 2018-02-02 17:45:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.75 Mbit/s
95th percentile per-packet one-way delay: 49.817 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 90.75 Mbit/s
95th percentile per-packet one-way delay: 49.817 ms
Loss rate: 0.70%
```
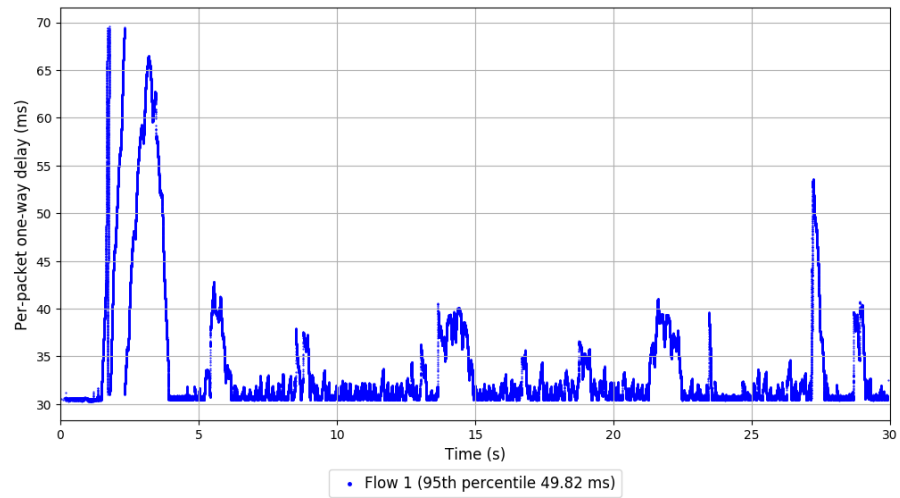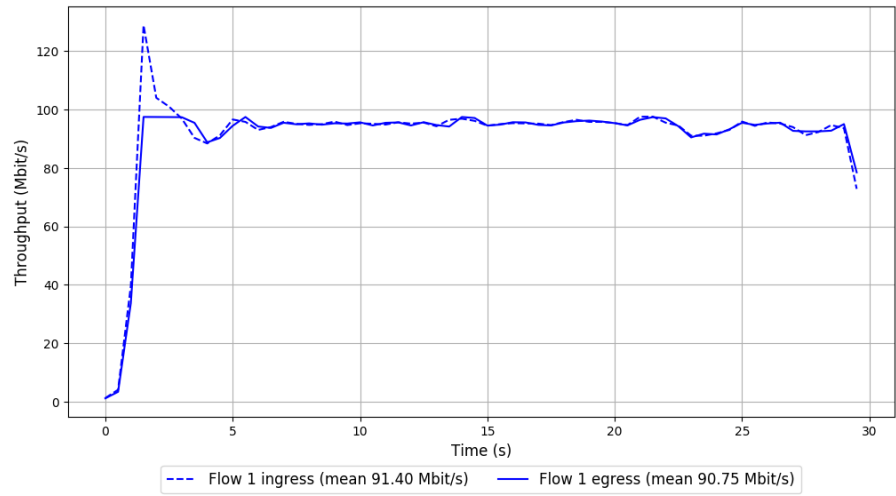
Run 1: Report of Vivace-LTE — Data Link

```
Run 2: Statistics of Vivace-LTE

Start at: 2018-02-02 13:22:38
End at: 2018-02-02 13:23:08
Local clock offset: 1.103 ms
Remote clock offset: -0.28 ms


# Below is generated by plot.py at 2018-02-02 17:45:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.53 Mbit/s
95th percentile per-packet one-way delay: 47.412 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 90.53 Mbit/s
95th percentile per-packet one-way delay: 47.412 ms
Loss rate: 1.02%
```
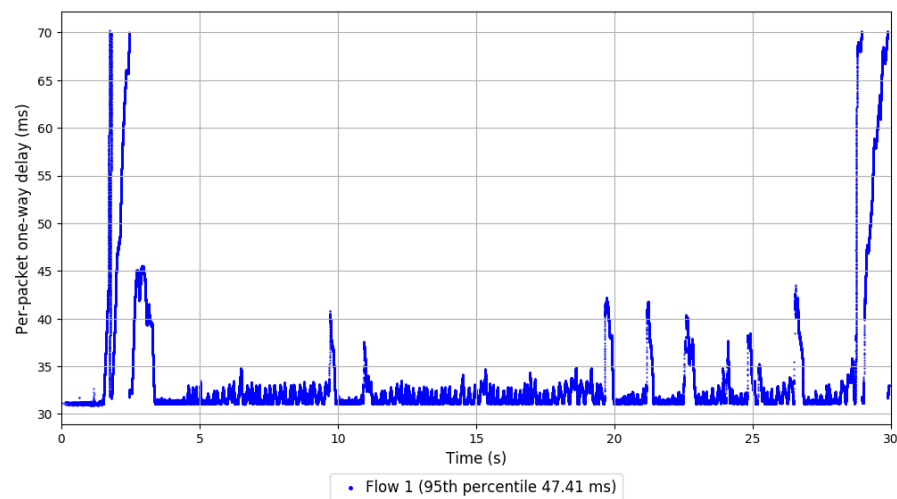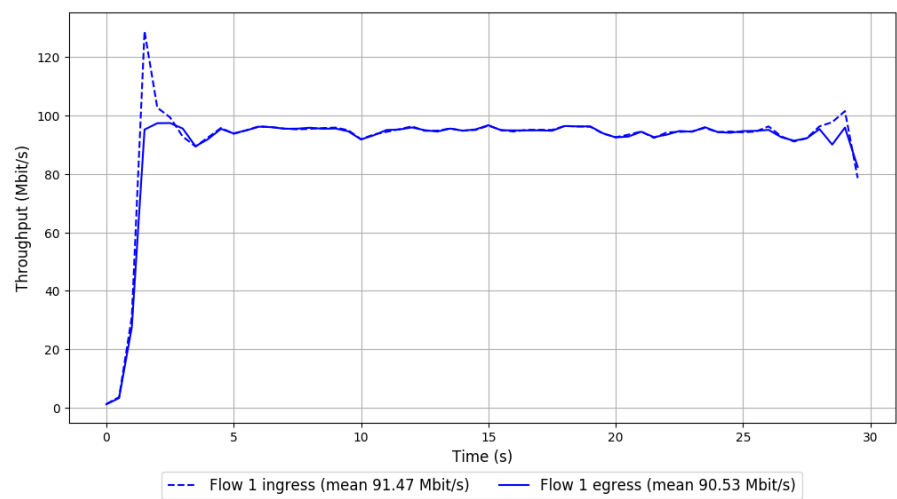
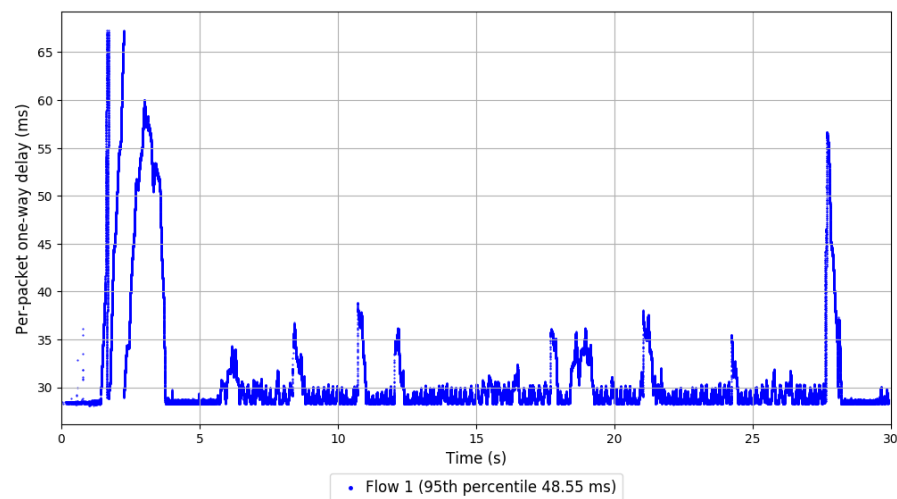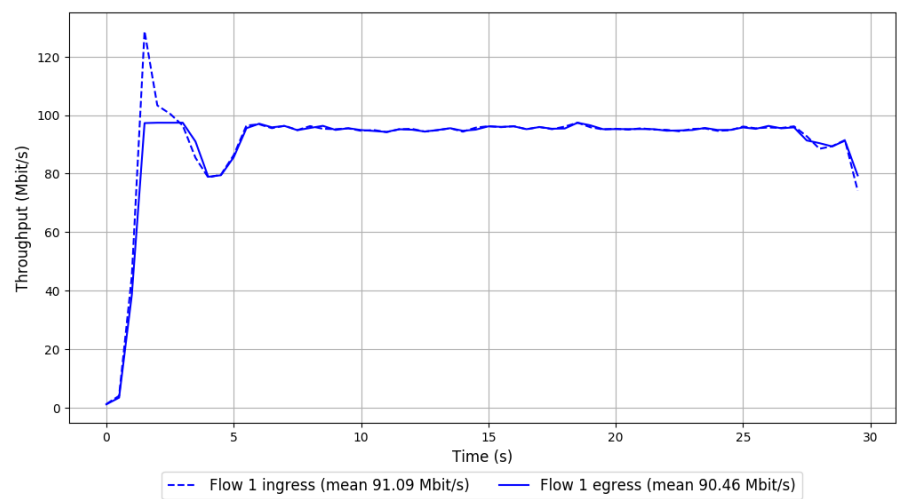Run 2: Report of Vivace-LTE — Data Link

```
Run 3: Statistics of Vivace-LTE

Start at: 2018-02-02 13:46:59
End at: 2018-02-02 13:47:29
Local clock offset: 1.063 ms
Remote clock offset: -3.145 ms


# Below is generated by plot.py at 2018-02-02 17:45:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.46 Mbit/s
95th percentile per-packet one-way delay: 48.549 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 90.46 Mbit/s
95th percentile per-packet one-way delay: 48.549 ms
Loss rate: 0.69%
```

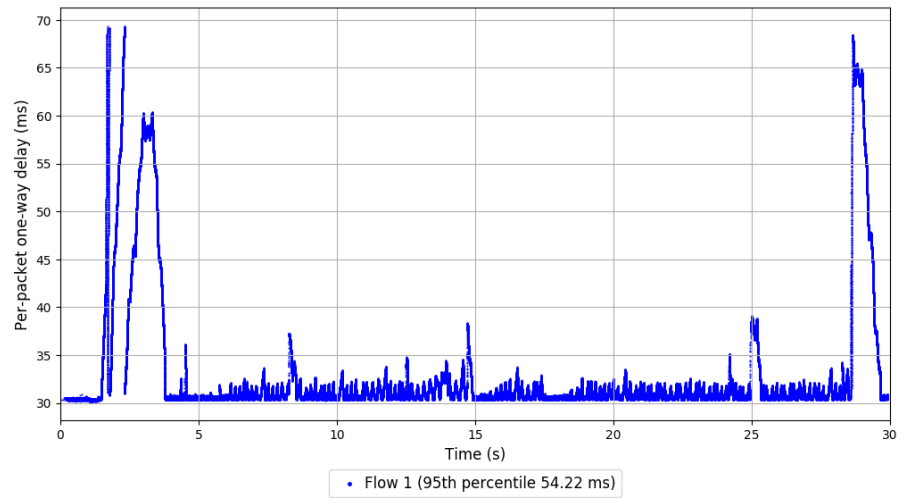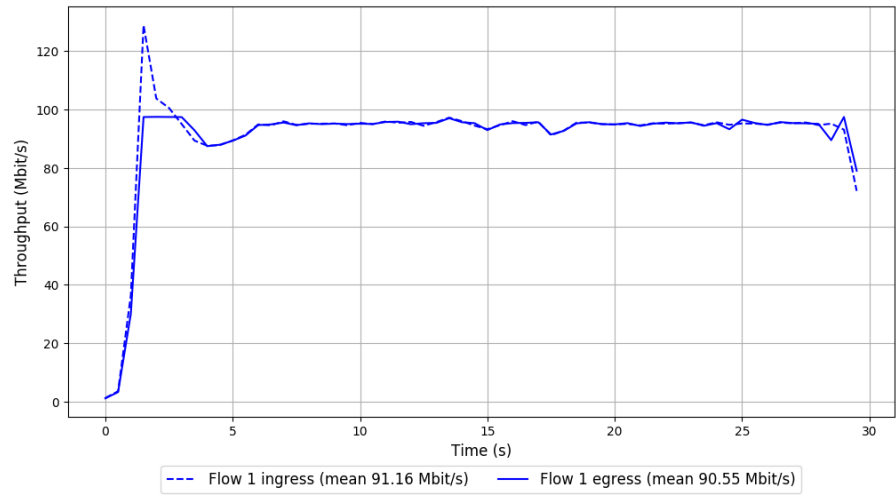## Run 3: Report of Vivace-LTE — Data Link

```
Run 4: Statistics of Vivace-LTE

Start at: 2018-02-02 14:11:25
End at: 2018-02-02 14:11:55
Local clock offset: 1.187 ms
Remote clock offset: -0.834 ms


# Below is generated by plot.py at 2018-02-02 17:45:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 54.216 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 90.55 Mbit/s
95th percentile per-packet one-way delay: 54.216 ms
Loss rate: 0.67%
```

Run 4: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 91.16 Mbit/s) Flow 1 egress (mean 90.55 Mbit/s)
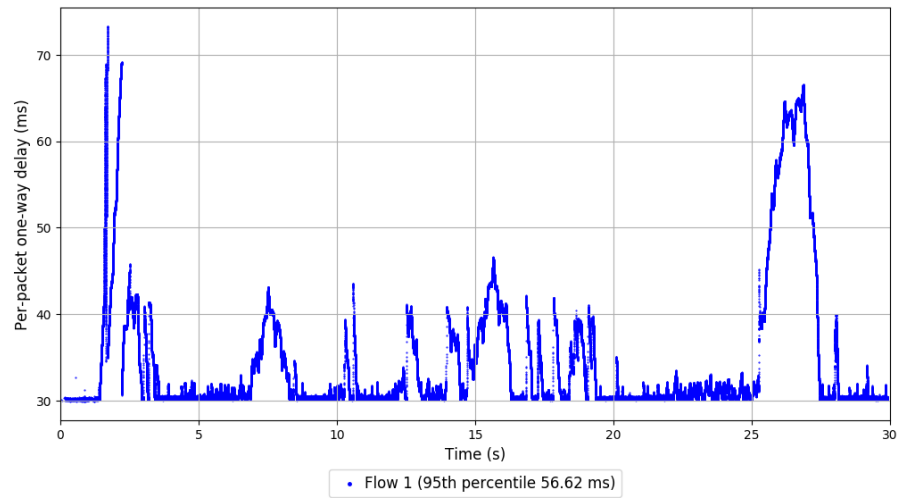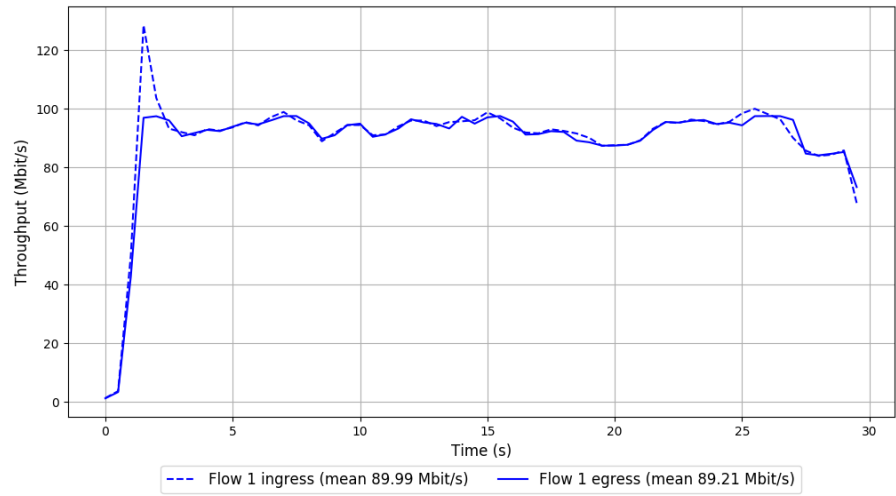

Flow 1 (95th percentile 54.22 ms)

```
Run 5: Statistics of Vivace-LTE

Start at: 2018-02-02 14:36:01
End at: 2018-02-02 14:36:31
Local clock offset: 0.947 ms
Remote clock offset: -1.154 ms


# Below is generated by plot.py at 2018-02-02 17:46:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 56.616 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 89.21 Mbit/s
95th percentile per-packet one-way delay: 56.616 ms
Loss rate: 0.87%
```

Run 5: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 89.99 Mbit/s)   Flow 1 egress (mean 89.21 Mbit/s)

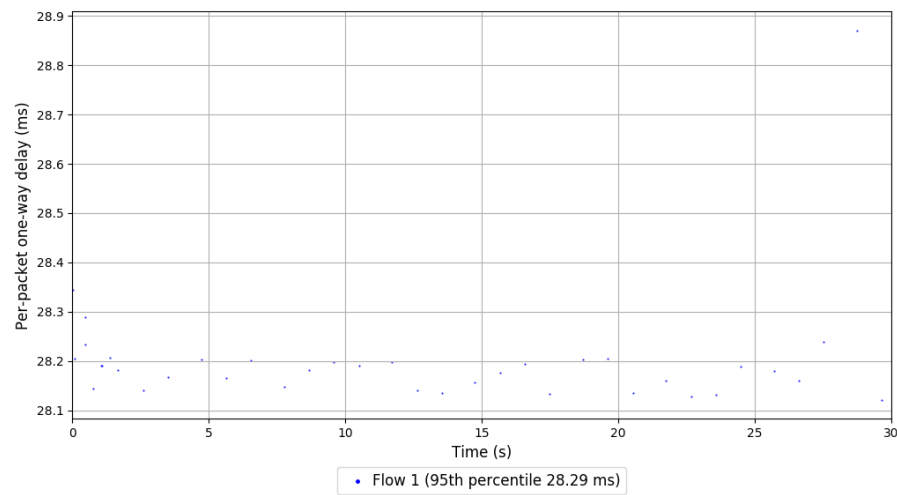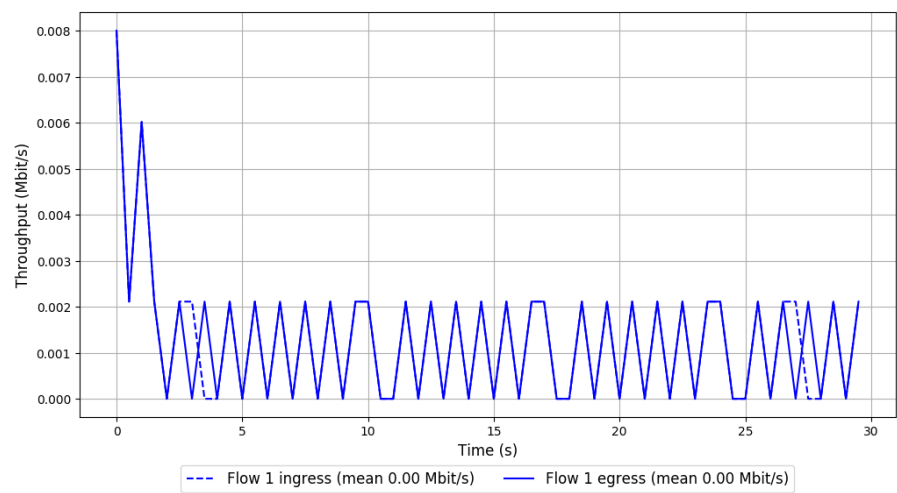

• Flow 1 (95th percentile 56.62 ms)

```
Run 6: Statistics of Vivace-LTE

Start at: 2018-02-02 15:00:19
End at: 2018-02-02 15:00:49
Local clock offset: 0.703 ms
Remote clock offset: -3.932 ms


# Below is generated by plot.py at 2018-02-02 17:46:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 28.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 28.288 ms
Loss rate: 0.00%
```

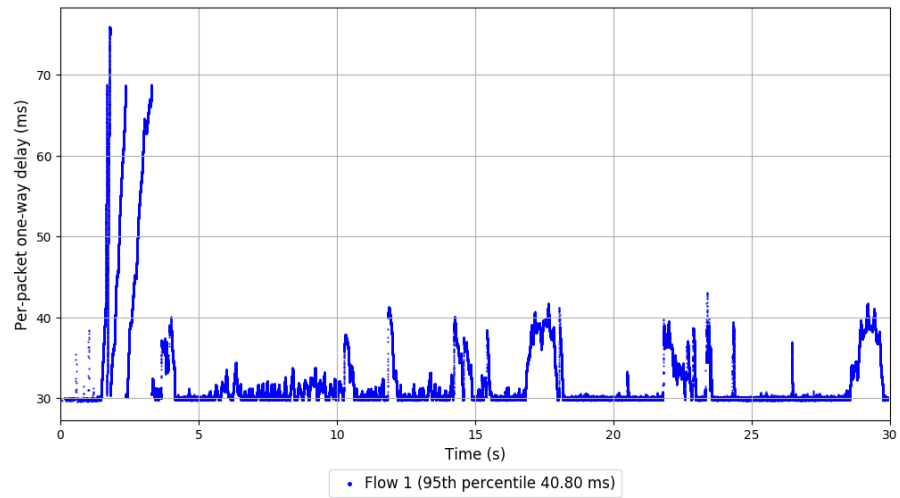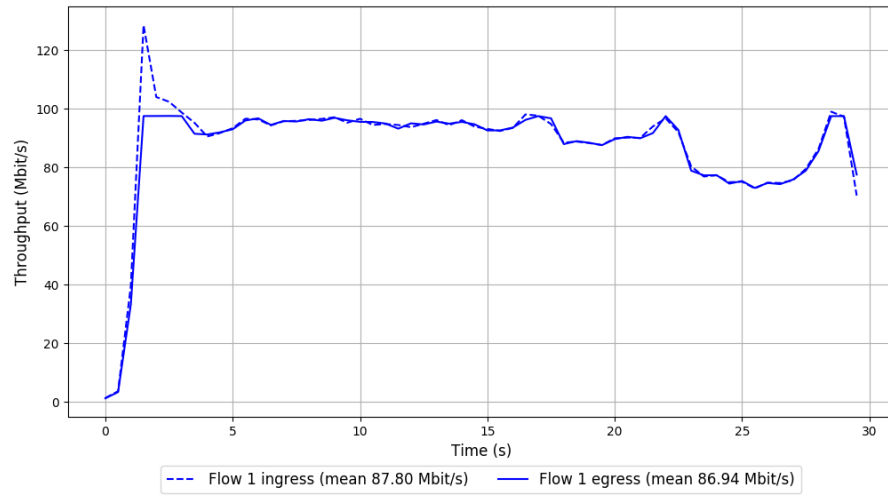## Run 6: Report of Vivace-LTE — Data Link

```
Run 7: Statistics of Vivace-LTE

Start at: 2018-02-02 15:25:05
End at: 2018-02-02 15:25:35
Local clock offset: 0.429 ms
Remote clock offset: -2.109 ms


# Below is generated by plot.py at 2018-02-02 17:46:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 40.797 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 40.797 ms
Loss rate: 0.98%
```

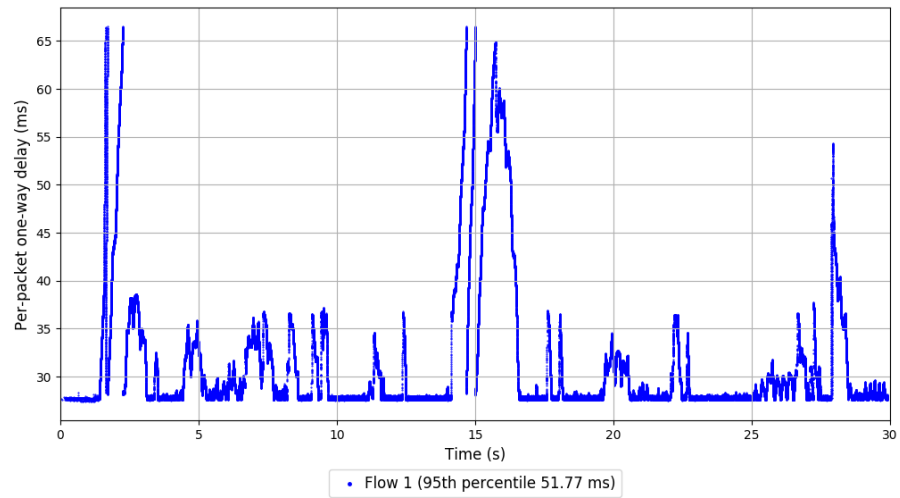# Run 7: Report of Vivace-LTE — Data Link

```
Run 8: Statistics of Vivace-LTE

Start at: 2018-02-02 15:50:32
End at: 2018-02-02 15:51:02
Local clock offset: 0.164 ms
Remote clock offset: -4.668 ms


# Below is generated by plot.py at 2018-02-02 17:46:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 51.765 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 51.765 ms
Loss rate: 1.25%
```
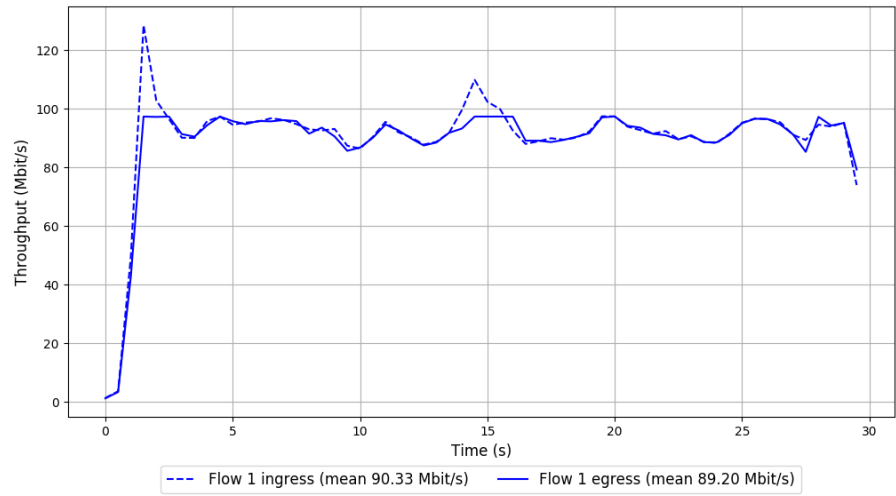
Run 8: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 90.33 Mbit/s) — — — Flow 1 egress (mean 89.20 Mbit/s)

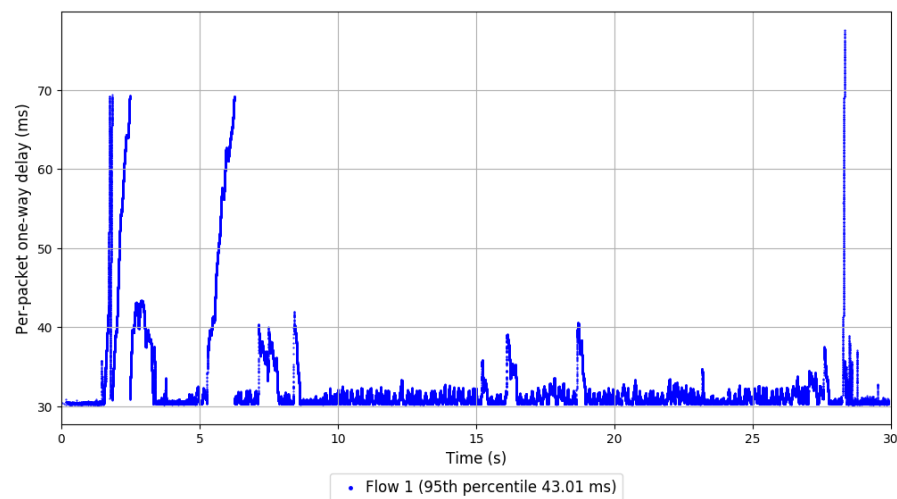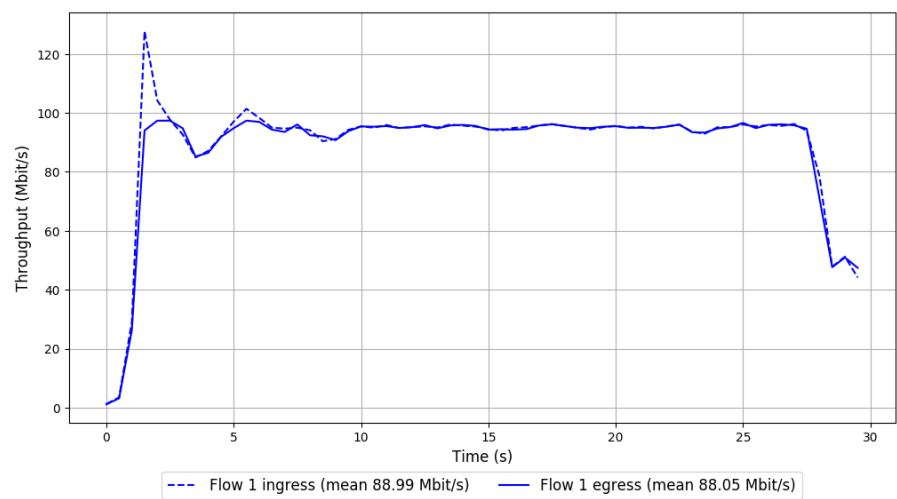

• Flow 1 (95th percentile 51.77 ms)

```
Run 9: Statistics of Vivace-LTE

Start at: 2018-02-02 16:14:59
End at: 2018-02-02 16:15:29
Local clock offset: 0.037 ms
Remote clock offset: -2.098 ms


# Below is generated by plot.py at 2018-02-02 17:46:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.05 Mbit/s
95th percentile per-packet one-way delay: 43.006 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 88.05 Mbit/s
95th percentile per-packet one-way delay: 43.006 ms
Loss rate: 1.06%
```

Run 9: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 88.99 Mbit/s)   Flow 1 egress (mean 88.05 Mbit/s)

• Flow 1 (95th percentile 43.01 ms)

```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-02 16:39:06
End at: 2018-02-02 16:39:37
Local clock offset: -0.242 ms
Remote clock offset: -2.465 ms


# Below is generated by plot.py at 2018-02-02 17:46:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 46.866 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 46.866 ms
Loss rate: 0.89%
```

Run 10: Report of Vivace-LTE — Data Link

Flow 1 ingress (mean 90.41 Mbit/s)   Flow 1 egress (mean 89.61 Mbit/s)

• Flow 1 (95th percentile 46.87 ms)