Pantheon Report

Generated at 2017-09-23 07:17:45 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

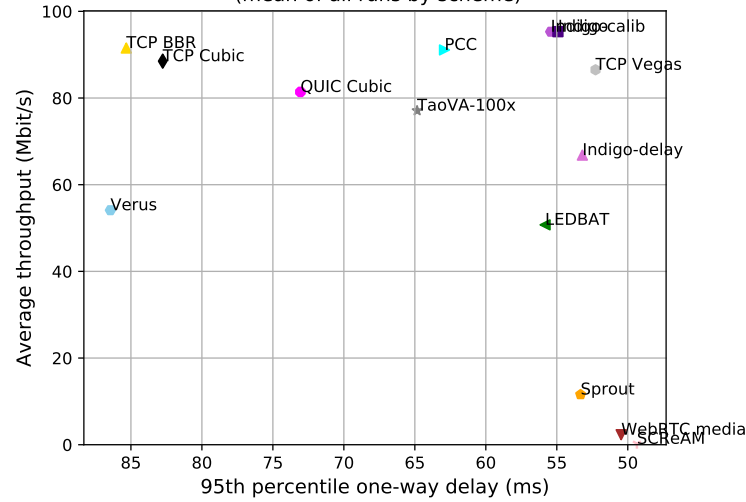Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

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

```
Git summary:
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```
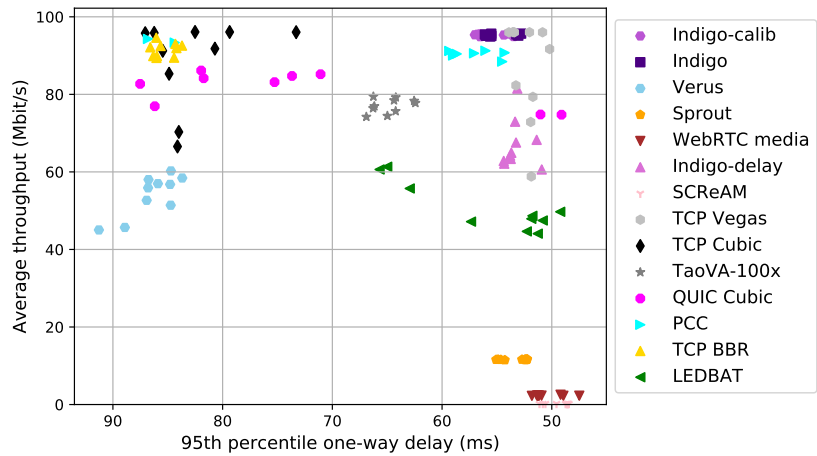
test from AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme (mean of all runs by scheme)

test from AWS California 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	91.54	85.33	24.84
TCP Cubic	10	88.50	82.76	0.31
LEDBAT	10	50.74	55.83	0.03
PCC	10	91.09	62.91	3.28
QUIC Cubic	9	81.40	73.06	0.39
SCReAM	10	0.22	49.36	0.00
WebRTC media	10	2.31	50.47	0.01
Sprout	10	11.59	53.33	0.02
TaoVA-100x	10	77.09	64.84	0.03
TCP Vegas	10	86.52	52.27	0.15
Verus	10	54.11	86.45	33.63
Indigo	10	95.31	54.92	0.12
Indigo-calib	10	95.30	55.43	0.09
Indigo-delay	10	66.83	53.20	0.01

```
Run 1: Statistics of TCP BBR

Start at: 2017-09-23 03:44:48
End at: 2017-09-23 03:45:18
Local clock offset: -2.879 ms
Remote clock offset: -1.459 ms

# Below is generated by plot.py at 2017-09-23 07:01:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.47 Mbit/s
95th percentile per-packet one-way delay: 84.423 ms
Loss rate: 24.26%
-- Flow 1:
Average throughput: 89.47 Mbit/s
95th percentile per-packet one-way delay: 84.423 ms
Loss rate: 24.26%
```
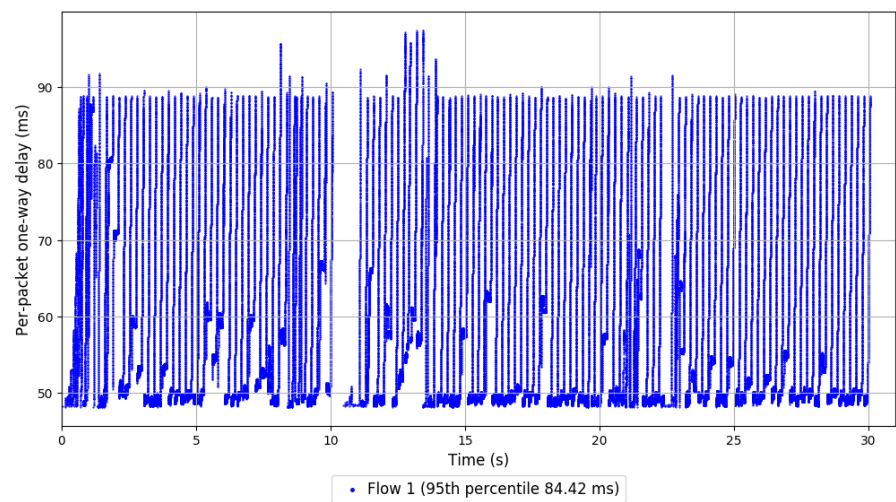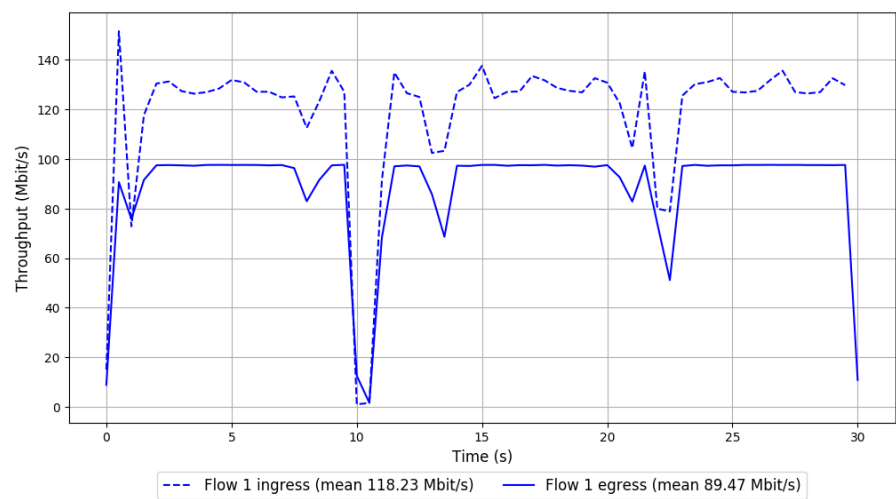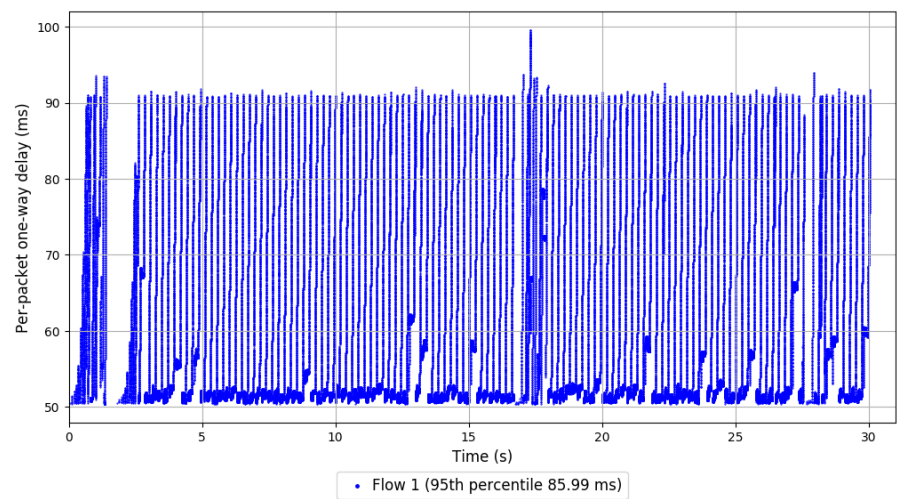
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2017-09-23 04:03:35
End at: 2017-09-23 04:04:05
Local clock offset: -1.259 ms
Remote clock offset: 0.437 ms


# Below is generated by plot.py at 2017-09-23 07:01:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.89 Mbit/s
95th percentile per-packet one-way delay: 85.989 ms
Loss rate: 24.73%
-- Flow 1:
Average throughput: 89.89 Mbit/s
95th percentile per-packet one-way delay: 85.989 ms
Loss rate: 24.73%
```
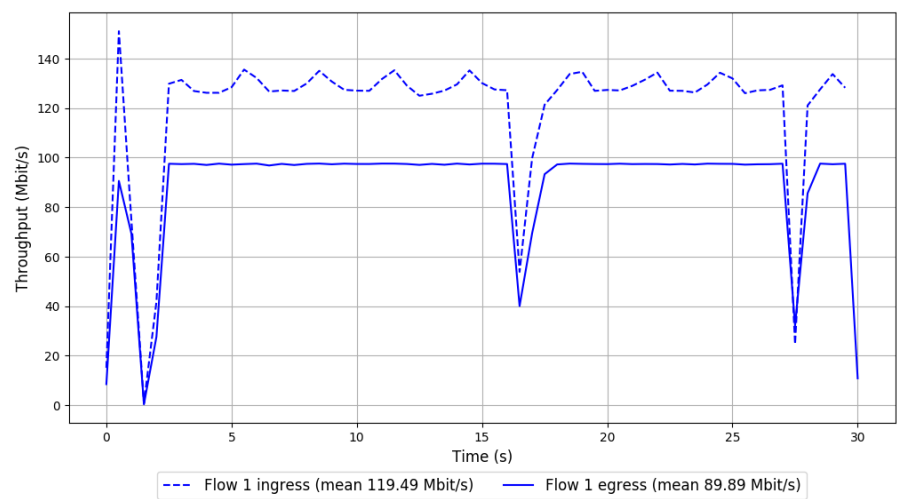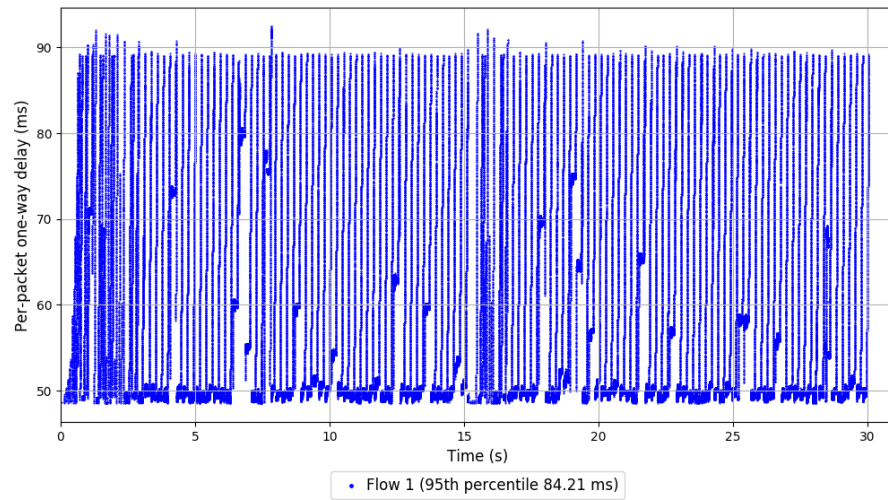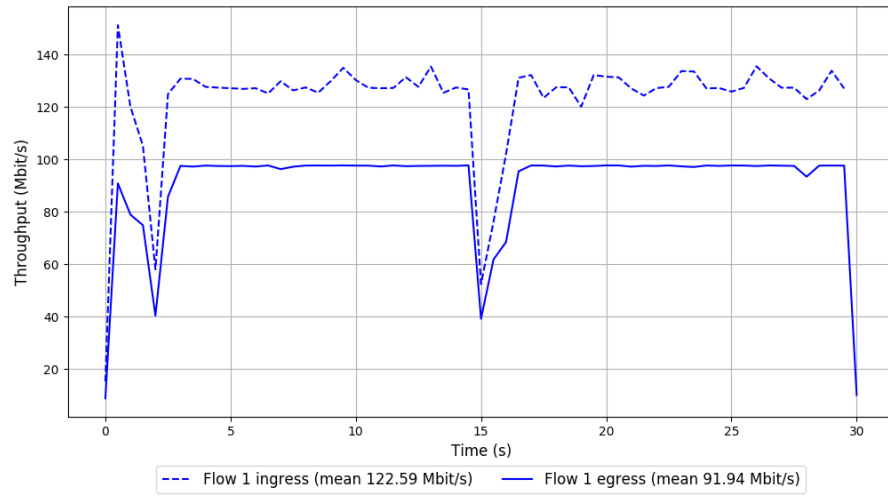
Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2017-09-23 04:22:21
End at: 2017-09-23 04:22:51
Local clock offset: -1.002 ms
Remote clock offset: -1.491 ms


# Below is generated by plot.py at 2017-09-23 07:01:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 84.213 ms
Loss rate: 24.94%
-- Flow 1:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 84.213 ms
Loss rate: 24.94%
```
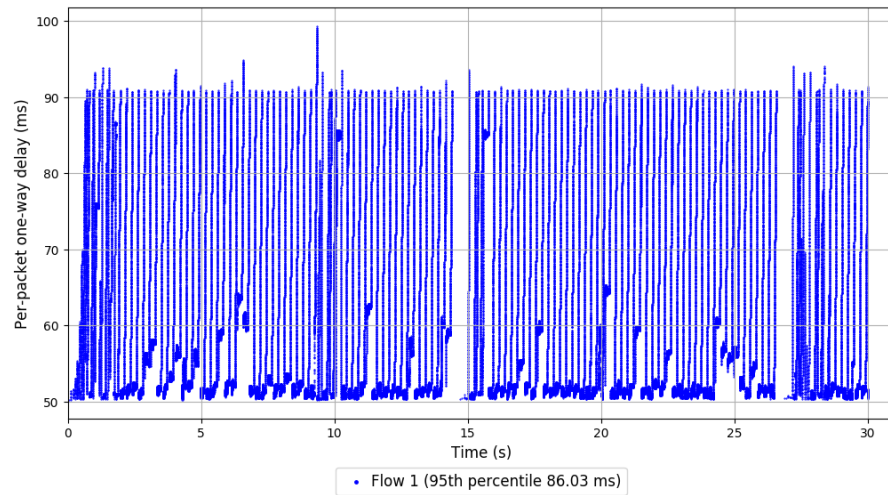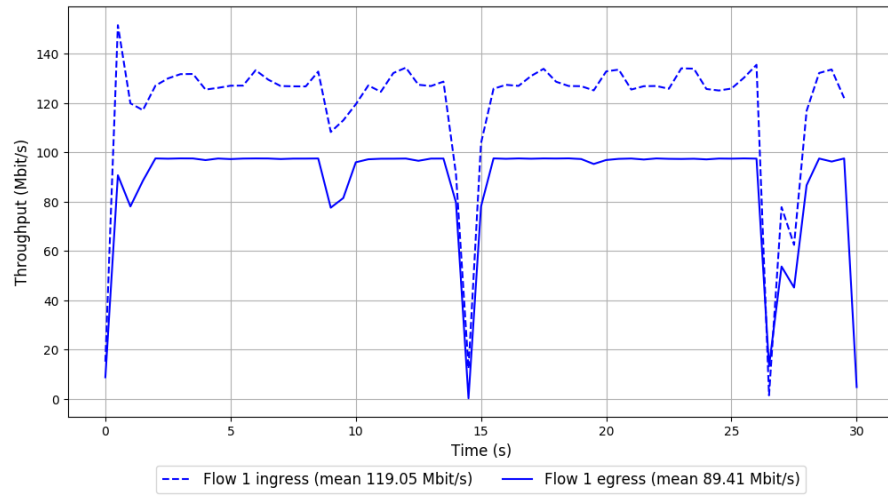
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 122.59 Mbit/s) ----   Flow 1 egress (mean 91.94 Mbit/s) ——

• Flow 1 (95th percentile 84.21 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2017-09-23 04:41:31
End at: 2017-09-23 04:42:01
Local clock offset: -0.787 ms
Remote clock offset: 0.169 ms


# Below is generated by plot.py at 2017-09-23 07:01:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.41 Mbit/s
95th percentile per-packet one-way delay: 86.032 ms
Loss rate: 24.89%
-- Flow 1:
Average throughput: 89.41 Mbit/s
95th percentile per-packet one-way delay: 86.032 ms
Loss rate: 24.89%
```
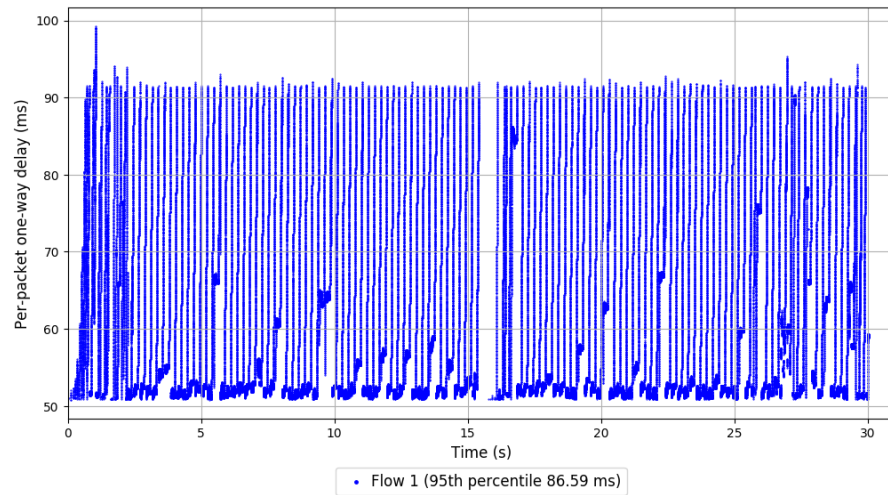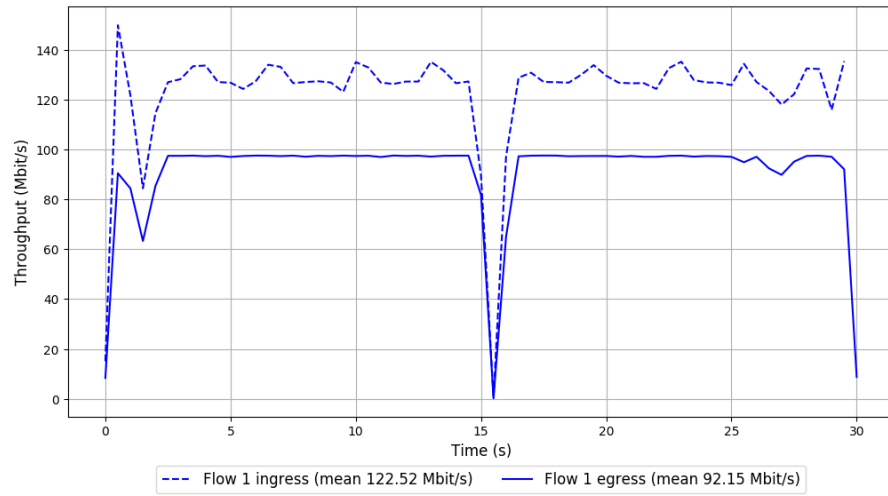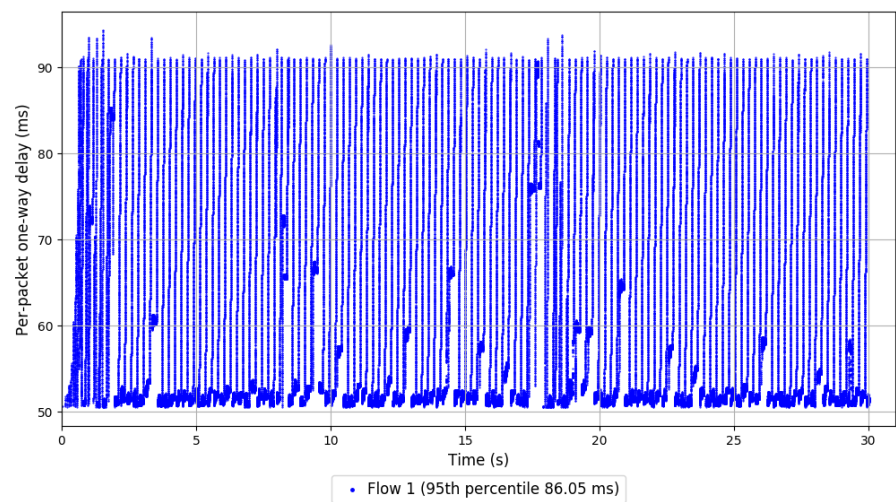
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 119.05 Mbit/s)   Flow 1 egress (mean 89.41 Mbit/s)
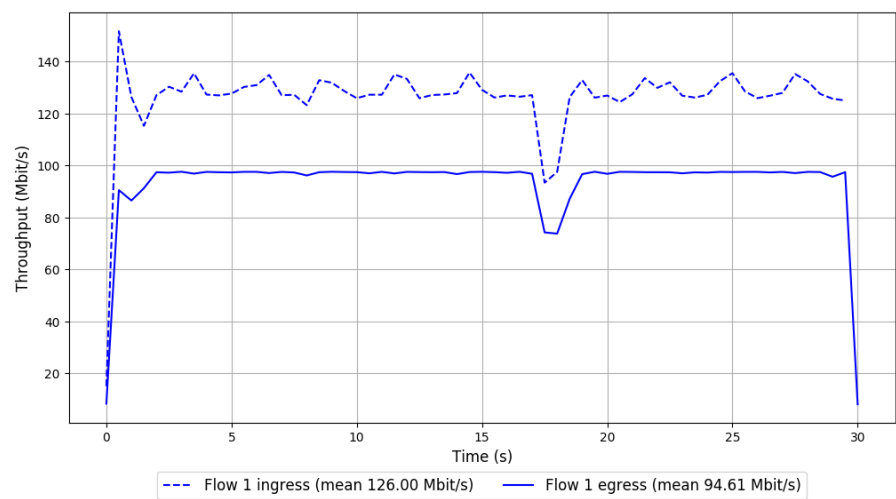

Flow 1 (95th percentile 86.03 ms)

11

```
Run 5: Statistics of TCP BBR

Start at: 2017-09-23 05:00:21
End at: 2017-09-23 05:00:52
Local clock offset: -0.849 ms
Remote clock offset: 0.386 ms


# Below is generated by plot.py at 2017-09-23 07:01:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 86.593 ms
Loss rate: 24.77%
-- Flow 1:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 86.593 ms
Loss rate: 24.77%
```
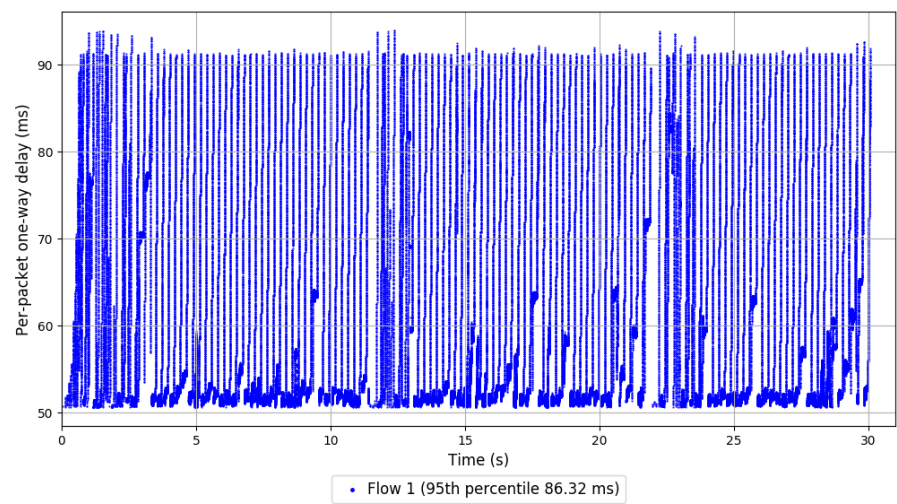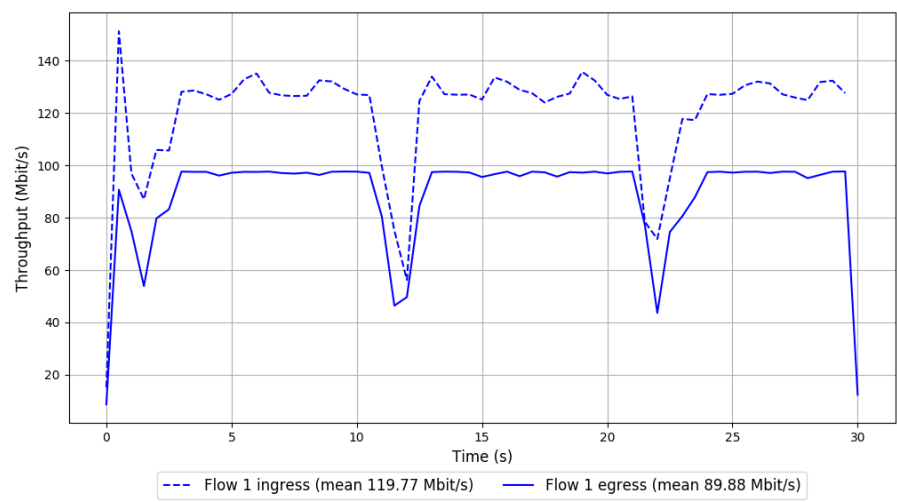
Run 5: Report of TCP BBR — Data Link

```
Run 6: Statistics of TCP BBR

Start at: 2017-09-23 05:19:14
End at: 2017-09-23 05:19:44
Local clock offset: -0.801 ms
Remote clock offset: -0.361 ms

# Below is generated by plot.py at 2017-09-23 07:01:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.61 Mbit/s
95th percentile per-packet one-way delay: 86.045 ms
Loss rate: 24.91%
-- Flow 1:
Average throughput: 94.61 Mbit/s
95th percentile per-packet one-way delay: 86.045 ms
Loss rate: 24.91%
```

Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 126.00 Mbit/s) ----   Flow 1 egress (mean 94.61 Mbit/s) ——
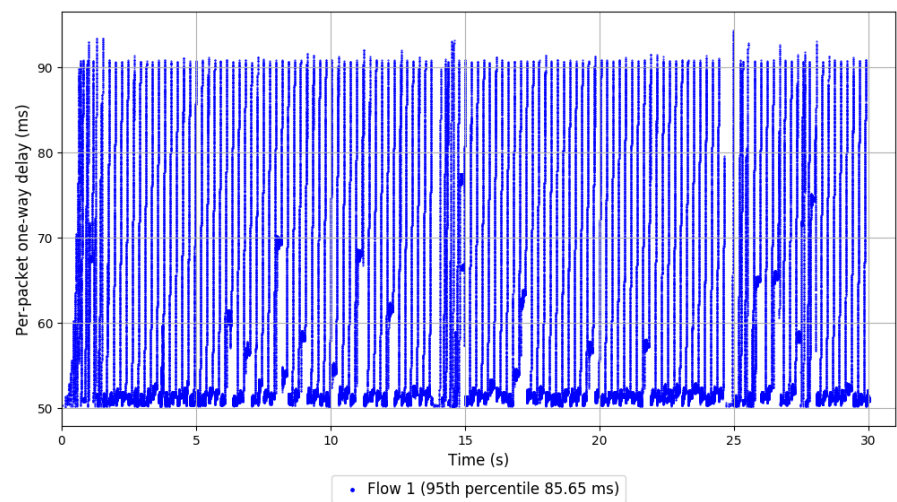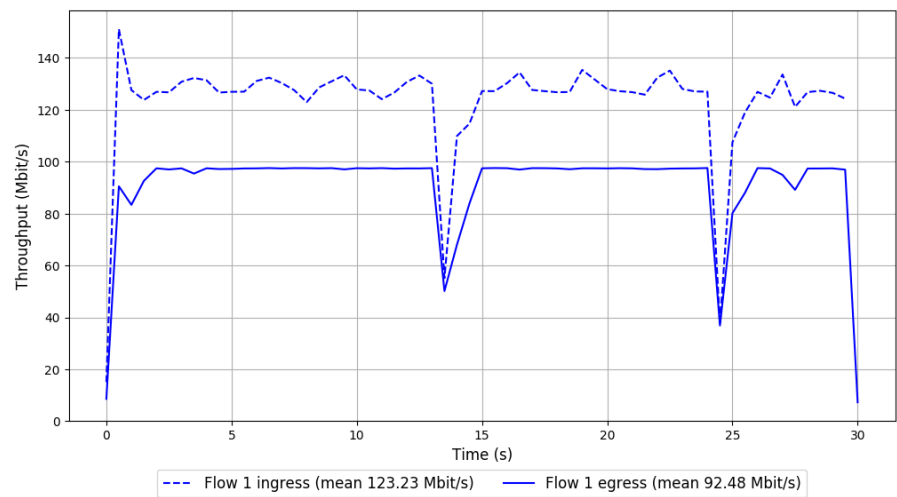

• Flow 1 (95th percentile 86.05 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2017-09-23 05:38:09
End at: 2017-09-23 05:38:39
Local clock offset: -0.582 ms
Remote clock offset: -0.142 ms


# Below is generated by plot.py at 2017-09-23 07:01:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: 86.322 ms
Loss rate: 24.90%
-- Flow 1:
Average throughput: 89.88 Mbit/s
95th percentile per-packet one-way delay: 86.322 ms
Loss rate: 24.90%
```

Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 119.77 Mbit/s) --- Flow 1 egress (mean 89.88 Mbit/s)

Flow 1 (95th percentile 86.32 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2017-09-23 05:57:09
End at: 2017-09-23 05:57:39
Local clock offset: -0.988 ms
Remote clock offset: -0.661 ms


# Below is generated by plot.py at 2017-09-23 07:01:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 85.651 ms
Loss rate: 24.95%
-- Flow 1:
Average throughput: 92.48 Mbit/s
95th percentile per-packet one-way delay: 85.651 ms
Loss rate: 24.95%
```
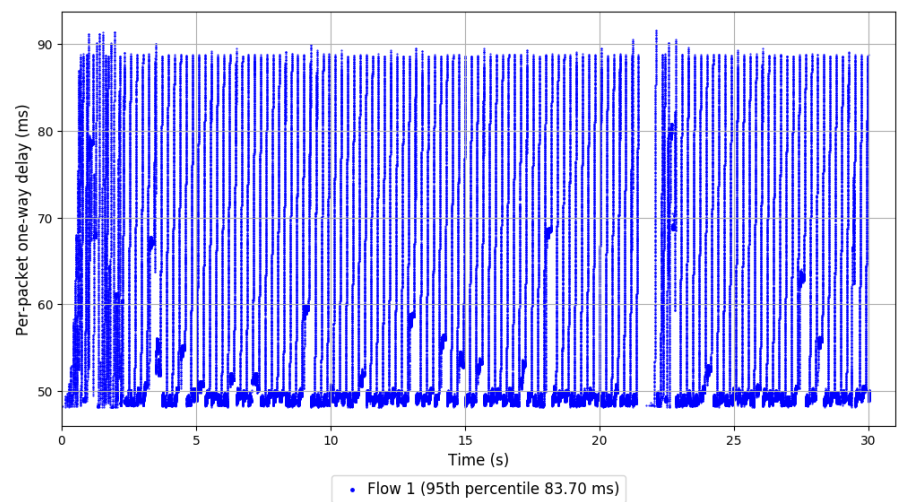
Run 8: Report of TCP BBR — Data Link

```
Run 9: Statistics of TCP BBR

Start at: 2017-09-23 06:15:59
End at: 2017-09-23 06:16:29
Local clock offset: -0.953 ms
Remote clock offset: -2.58 ms


# Below is generated by plot.py at 2017-09-23 07:02:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 83.702 ms
Loss rate: 24.81%
-- Flow 1:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 83.702 ms
Loss rate: 24.81%
```
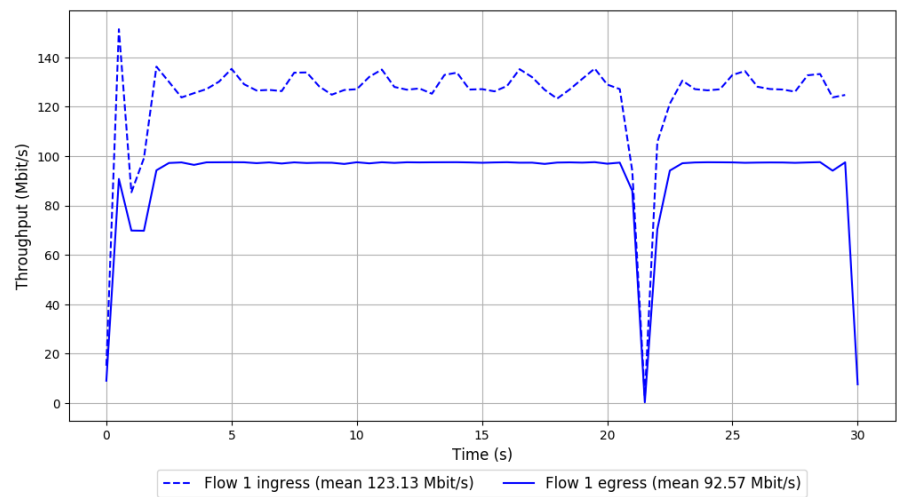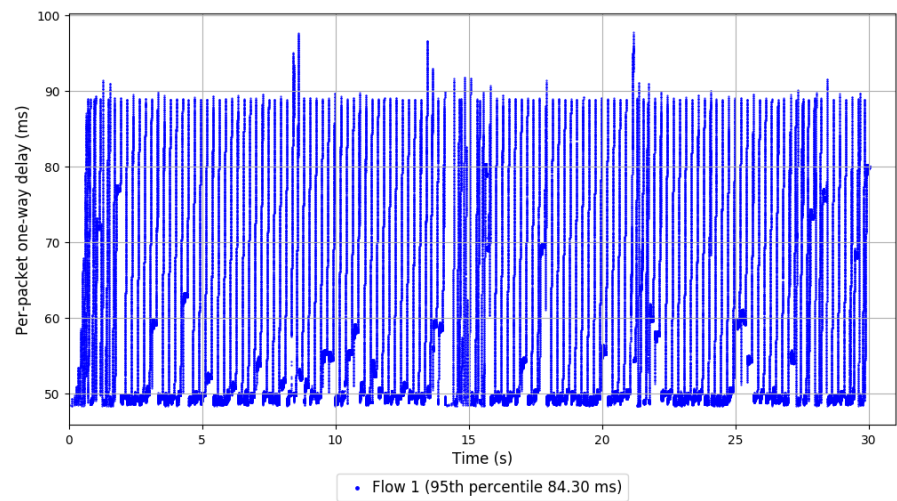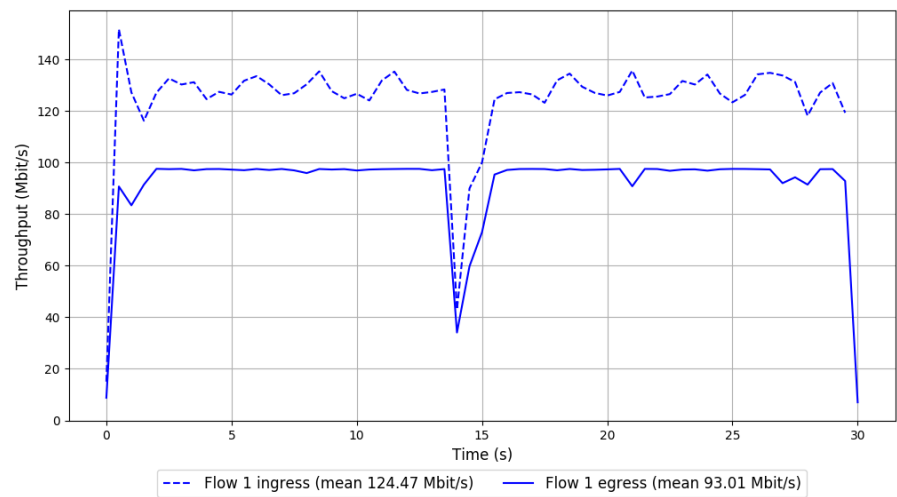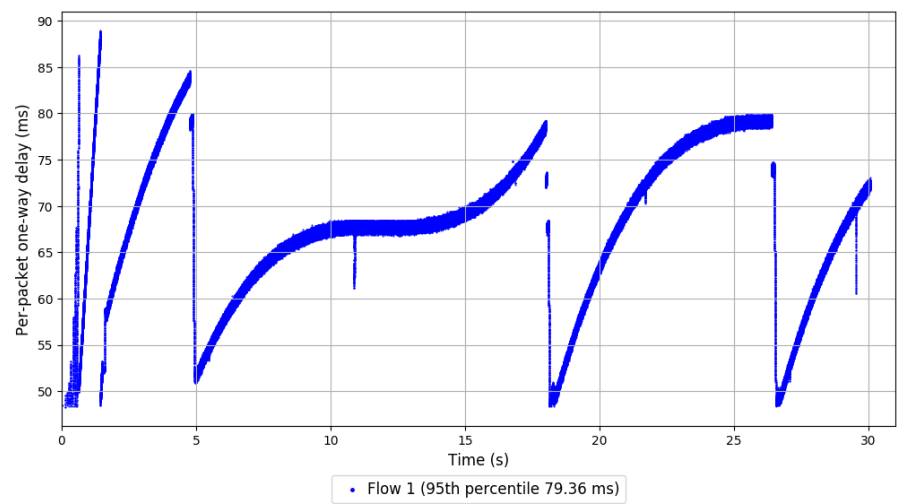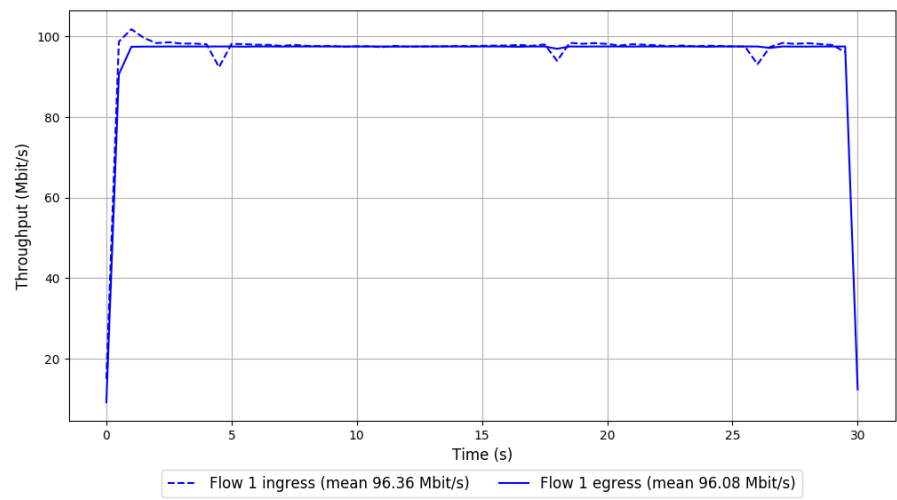
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 123.13 Mbit/s) ---- Flow 1 egress (mean 92.57 Mbit/s)

Flow 1 (95th percentile 83.70 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2017-09-23 06:34:48
End at: 2017-09-23 06:35:18
Local clock offset: -1.117 ms
Remote clock offset: -2.314 ms


# Below is generated by plot.py at 2017-09-23 07:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 84.304 ms
Loss rate: 25.19%
-- Flow 1:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 84.304 ms
Loss rate: 25.19%
```

Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2017-09-23 03:42:10
End at: 2017-09-23 03:42:40
Local clock offset: -2.802 ms
Remote clock offset: -1.272 ms

# Below is generated by plot.py at 2017-09-23 07:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 79.361 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 96.08 Mbit/s
95th percentile per-packet one-way delay: 79.361 ms
Loss rate: 0.21%
```

Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2017-09-23 04:00:57
End at: 2017-09-23 04:01:27
Local clock offset: -1.535 ms
Remote clock offset: 0.536 ms


# Below is generated by plot.py at 2017-09-23 07:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 80.704 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 91.79 Mbit/s
95th percentile per-packet one-way delay: 80.704 ms
Loss rate: 0.20%
```
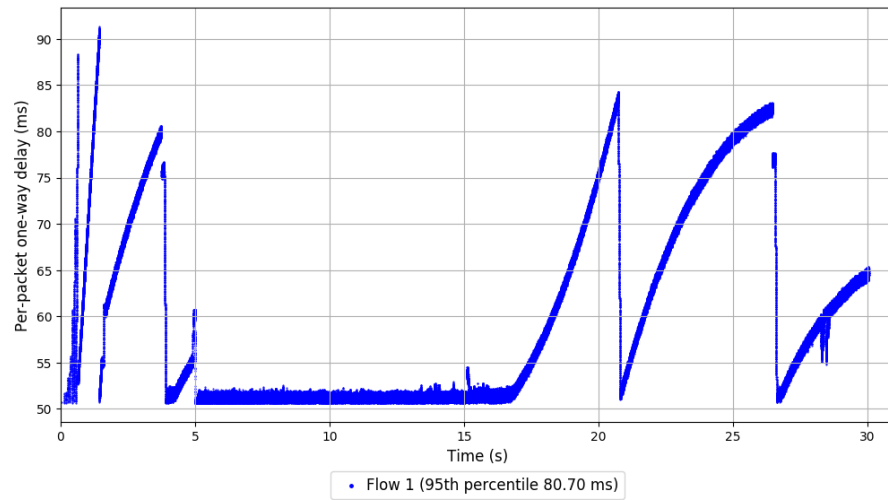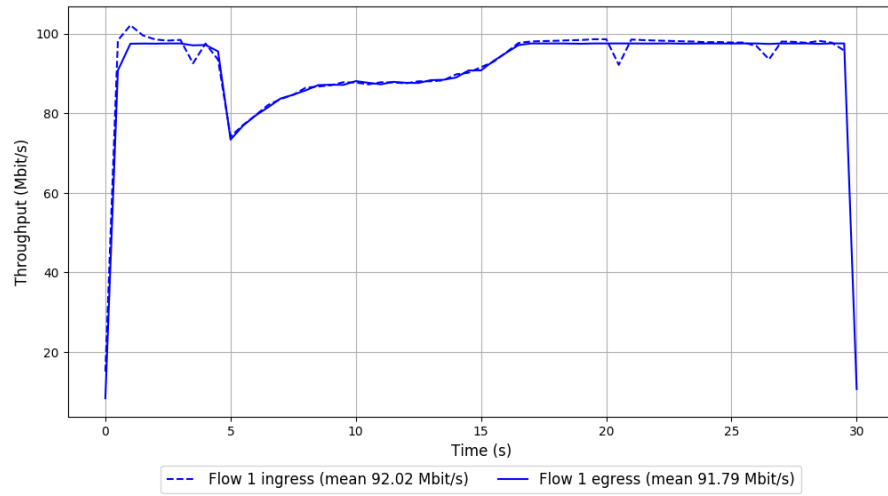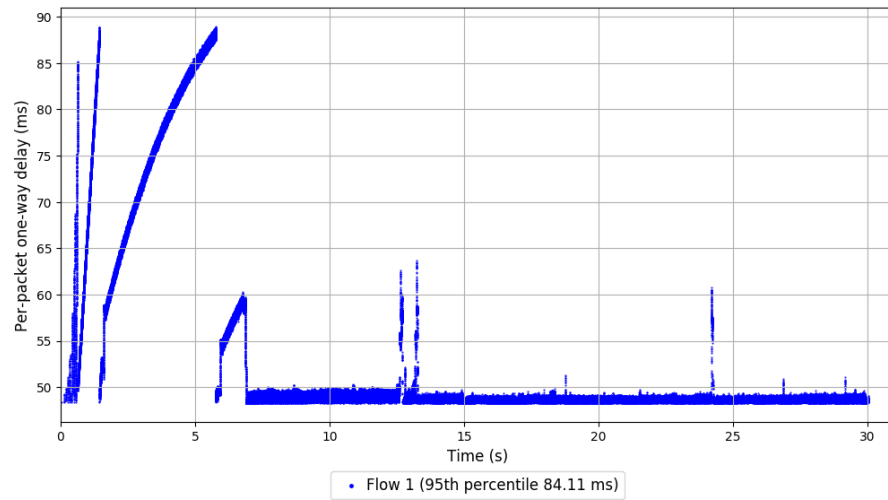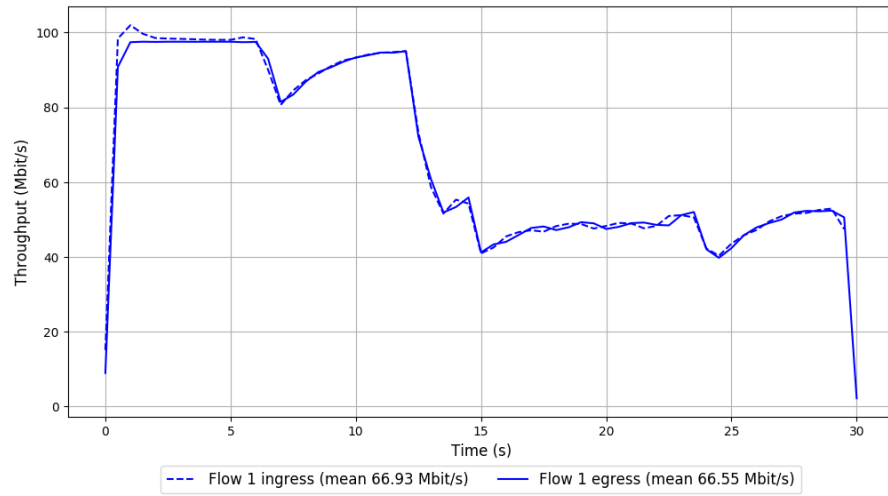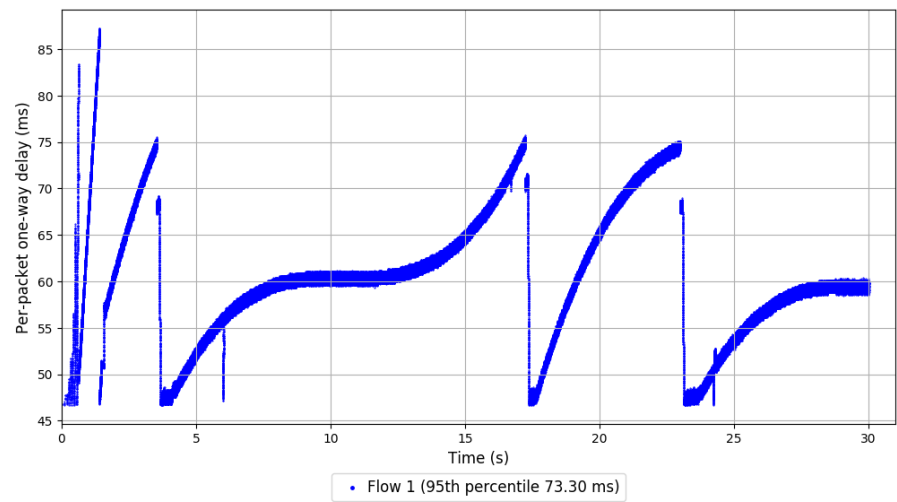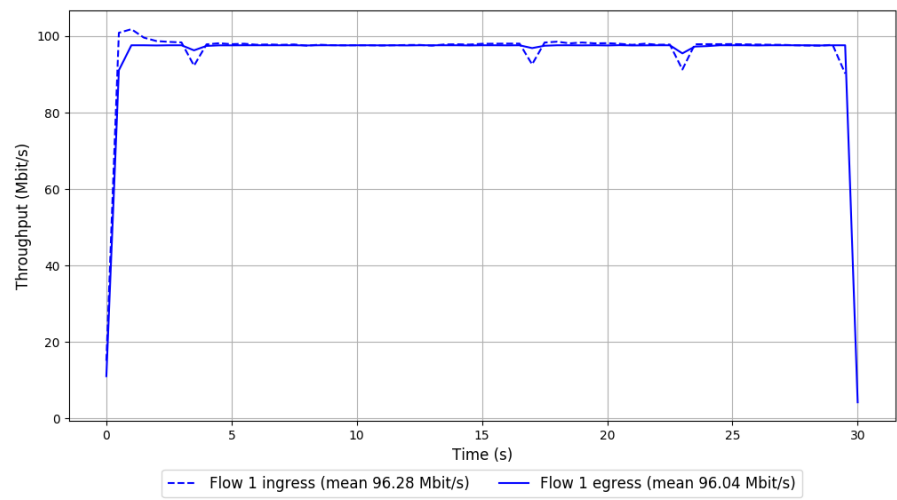
Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 92.02 Mbit/s)   Flow 1 egress (mean 91.79 Mbit/s)

Flow 1 (95th percentile 80.70 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2017-09-23 04:19:44
End at: 2017-09-23 04:20:14
Local clock offset: -1.011 ms
Remote clock offset: -1.537 ms


# Below is generated by plot.py at 2017-09-23 07:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.55 Mbit/s
95th percentile per-packet one-way delay: 84.113 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 66.55 Mbit/s
95th percentile per-packet one-way delay: 84.113 ms
Loss rate: 0.55%
```

Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 66.93 Mbit/s) —— Flow 1 egress (mean 66.55 Mbit/s)
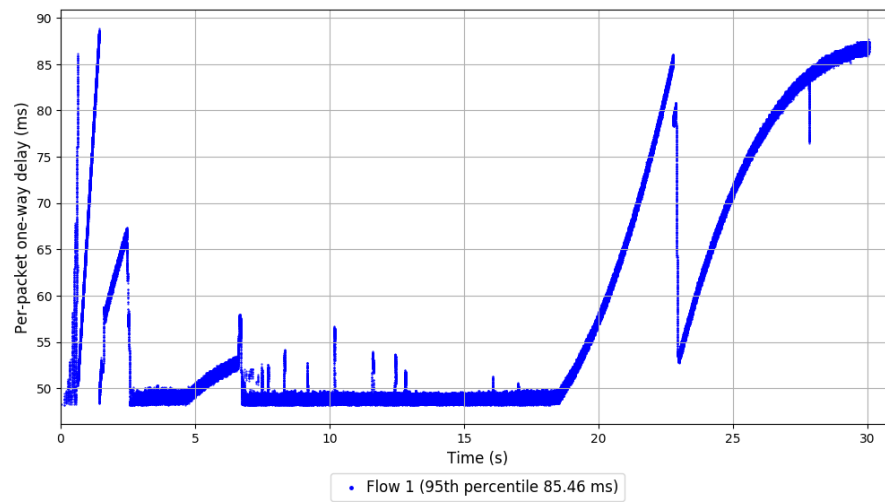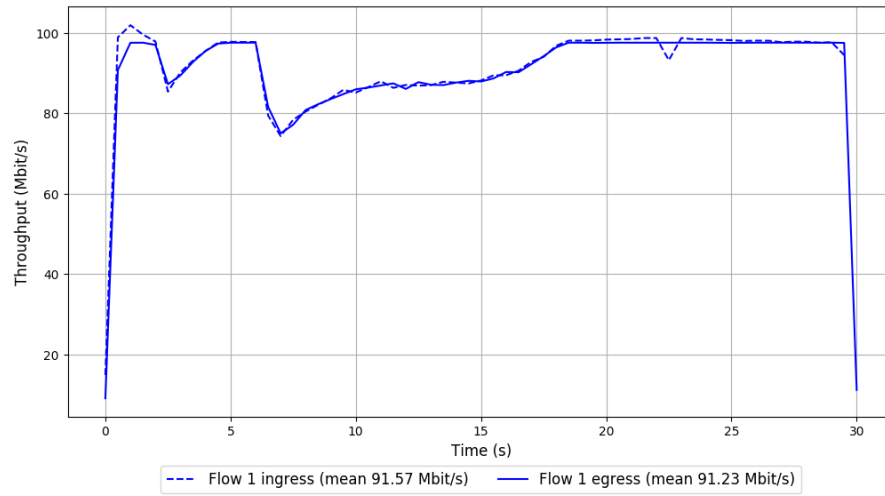

• Flow 1 (95th percentile 84.11 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2017-09-23 04:38:52
End at: 2017-09-23 04:39:22
Local clock offset: -0.718 ms
Remote clock offset: -1.877 ms


# Below is generated by plot.py at 2017-09-23 07:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 73.299 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 96.04 Mbit/s
95th percentile per-packet one-way delay: 73.299 ms
Loss rate: 0.20%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 96.28 Mbit/s) --- Flow 1 egress (mean 96.04 Mbit/s)

Flow 1 (95th percentile 73.30 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2017-09-23 04:57:44
End at: 2017-09-23 04:58:14
Local clock offset: -0.973 ms
Remote clock offset: -2.136 ms


# Below is generated by plot.py at 2017-09-23 07:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 85.459 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 91.23 Mbit/s
95th percentile per-packet one-way delay: 85.459 ms
Loss rate: 0.28%
```
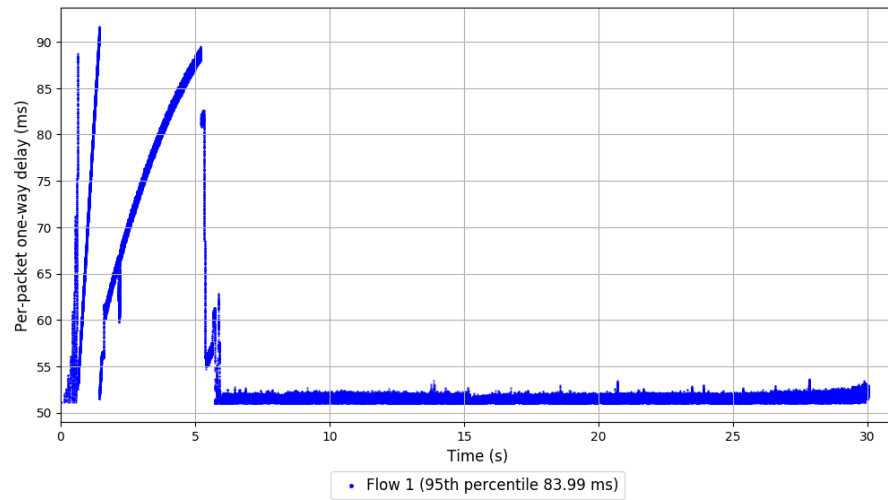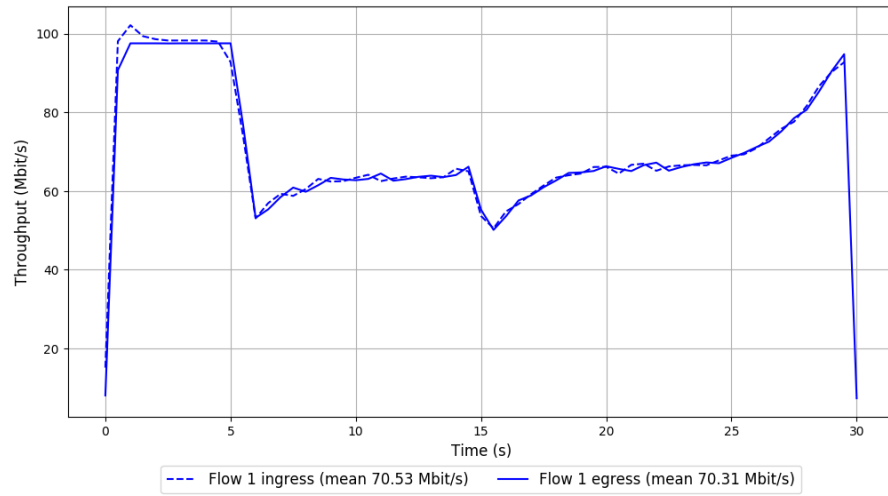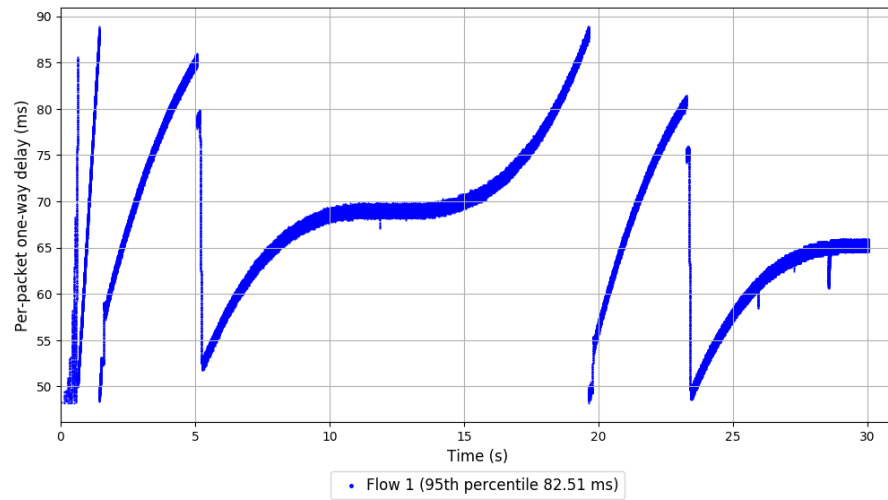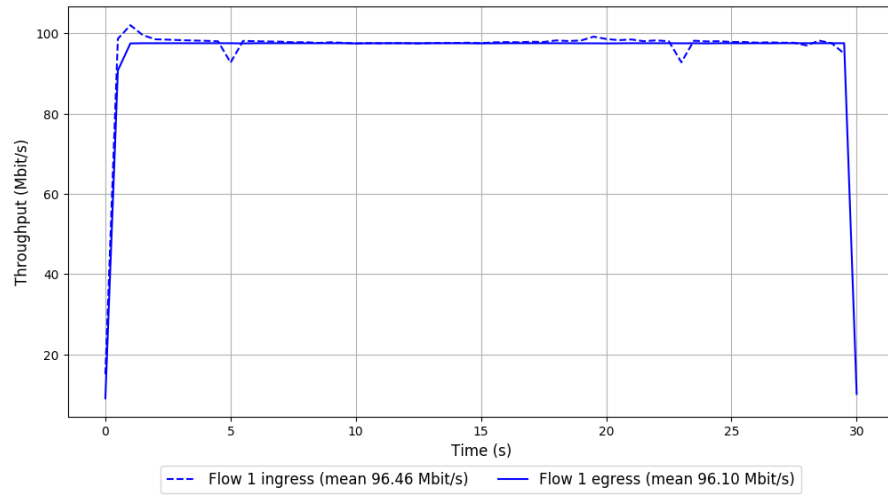
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 91.57 Mbit/s) --- Flow 1 egress (mean 91.23 Mbit/s)

• Flow 1 (95th percentile 85.46 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2017-09-23 05:16:35
End at: 2017-09-23 05:17:05
Local clock offset: -0.814 ms
Remote clock offset: 0.276 ms


# Below is generated by plot.py at 2017-09-23 07:02:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.31 Mbit/s
95th percentile per-packet one-way delay: 83.993 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 70.31 Mbit/s
95th percentile per-packet one-way delay: 83.993 ms
Loss rate: 0.31%
```
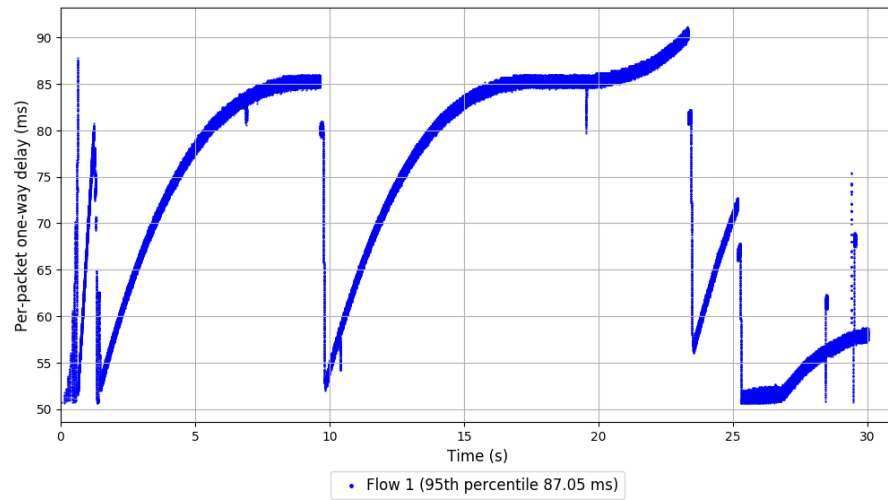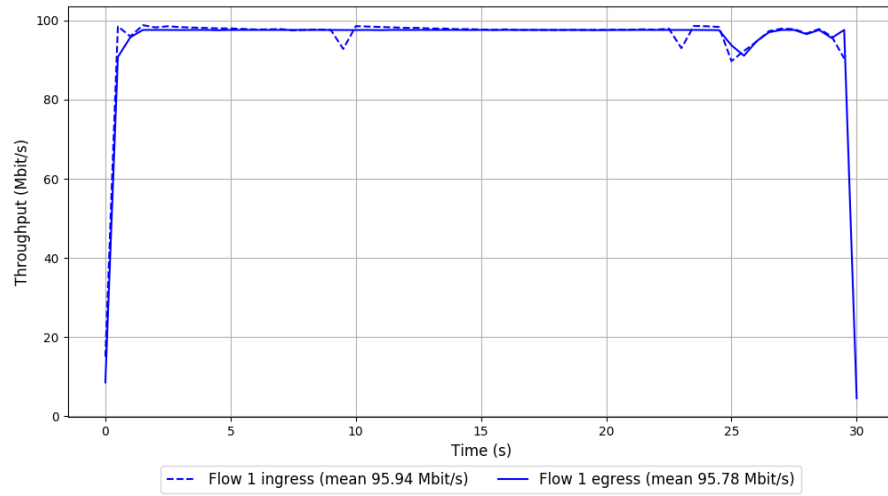
Run 6: Report of TCP Cubic — Data Link

```
Run 7: Statistics of TCP Cubic

Start at: 2017-09-23 05:35:29
End at: 2017-09-23 05:35:59
Local clock offset: -0.704 ms
Remote clock offset: -2.645 ms


# Below is generated by plot.py at 2017-09-23 07:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 82.513 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 96.10 Mbit/s
95th percentile per-packet one-way delay: 82.513 ms
Loss rate: 0.32%
```
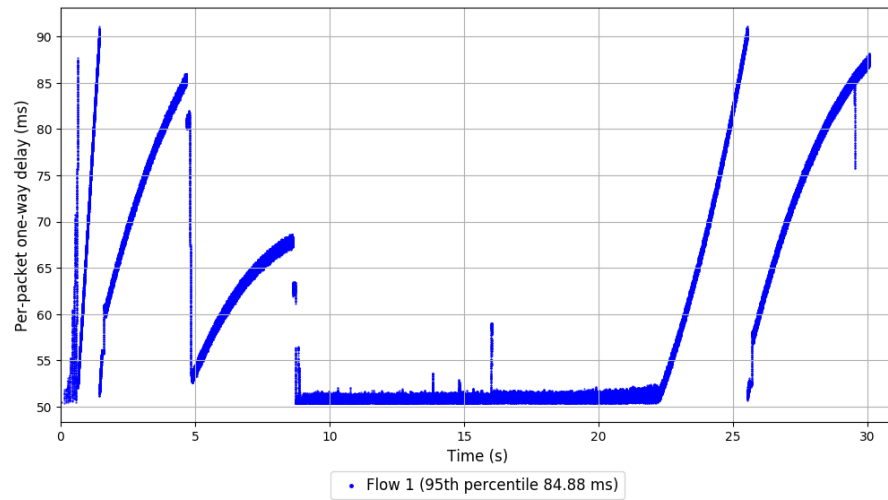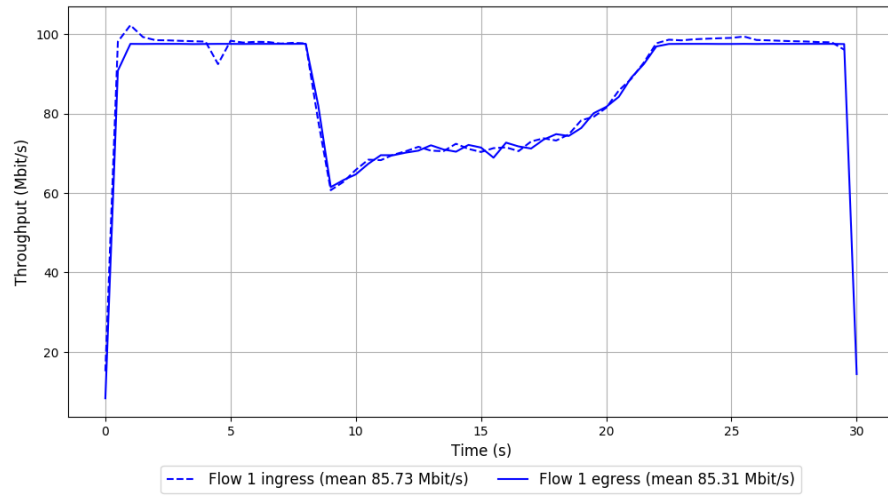
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 96.46 Mbit/s) ---- Flow 1 egress (mean 96.10 Mbit/s)

Flow 1 (95th percentile 82.51 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2017-09-23 05:54:28
End at: 2017-09-23 05:54:58
Local clock offset: -0.895 ms
Remote clock offset: -0.116 ms


# Below is generated by plot.py at 2017-09-23 07:03:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 87.054 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 95.78 Mbit/s
95th percentile per-packet one-way delay: 87.054 ms
Loss rate: 0.14%
```

Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 95.94 Mbit/s)   Flow 1 egress (mean 95.78 Mbit/s)

Flow 1 (95th percentile 87.05 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2017-09-23 06:13:20
End at: 2017-09-23 06:13:50
Local clock offset: -0.817 ms
Remote clock offset: -0.538 ms


# Below is generated by plot.py at 2017-09-23 07:03:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 84.880 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 85.31 Mbit/s
95th percentile per-packet one-way delay: 84.880 ms
Loss rate: 0.38%
```
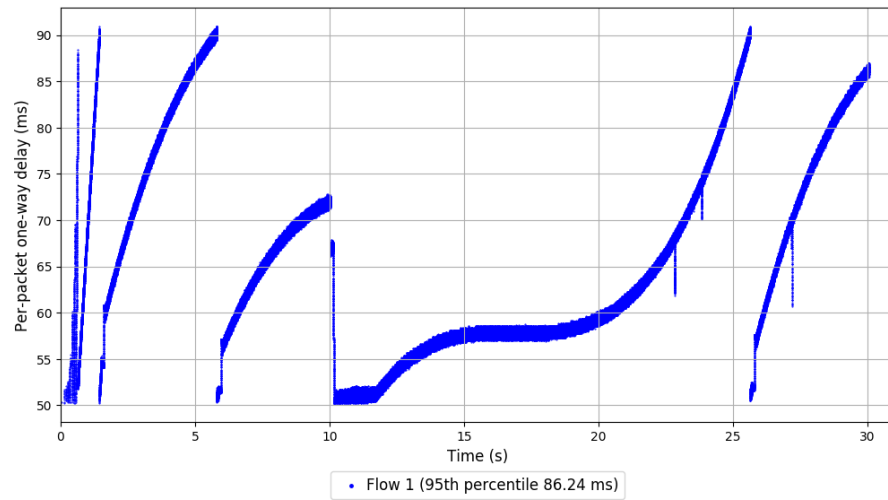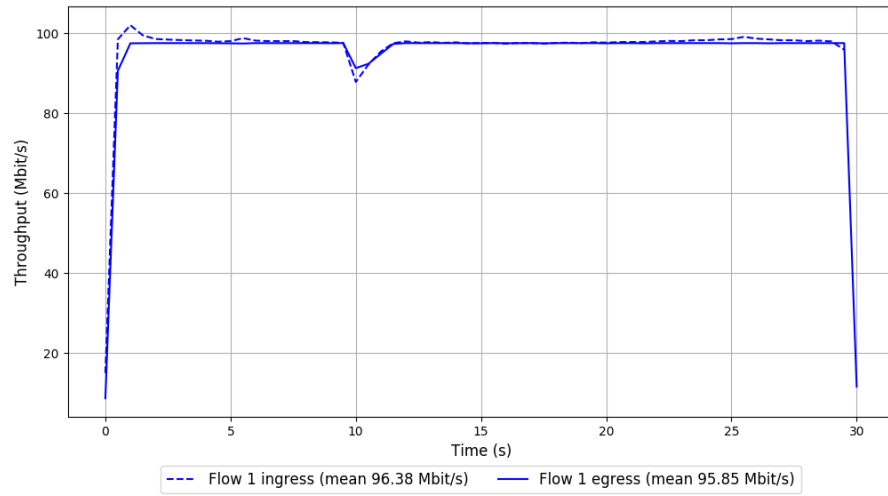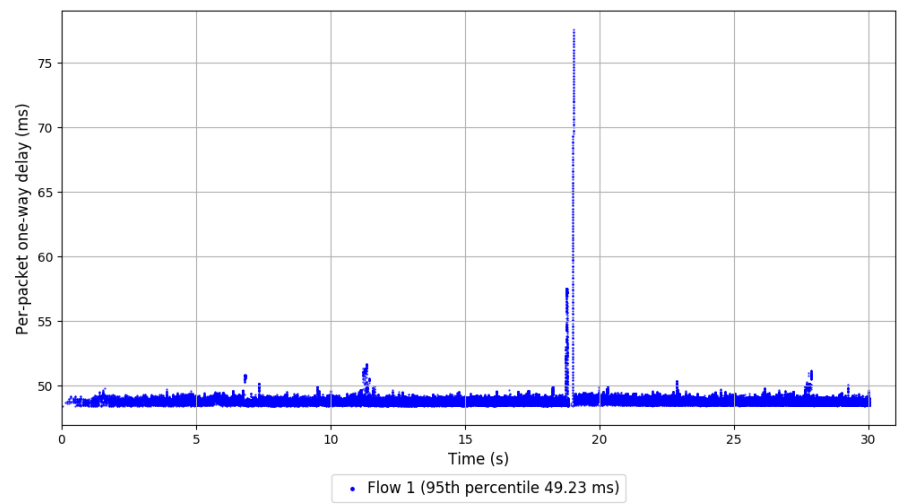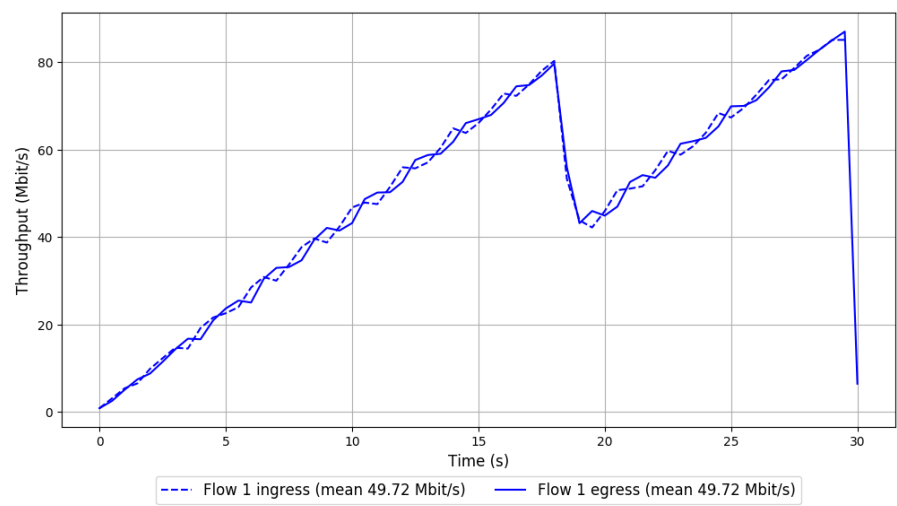
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 85.73 Mbit/s)   Flow 1 egress (mean 85.31 Mbit/s)

Flow 1 (95th percentile 84.88 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2017-09-23 06:32:09
End at: 2017-09-23 06:32:39
Local clock offset: -1.145 ms
Remote clock offset: -0.24 ms


# Below is generated by plot.py at 2017-09-23 07:03:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 86.237 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 95.85 Mbit/s
95th percentile per-packet one-way delay: 86.237 ms
Loss rate: 0.48%
```

Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2017-09-23 03:48:55
End at: 2017-09-23 03:49:25
Local clock offset: -2.487 ms
Remote clock offset: -1.471 ms


# Below is generated by plot.py at 2017-09-23 07:03:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.72 Mbit/s
95th percentile per-packet one-way delay: 49.233 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 49.72 Mbit/s
95th percentile per-packet one-way delay: 49.233 ms
Loss rate: 0.01%
```
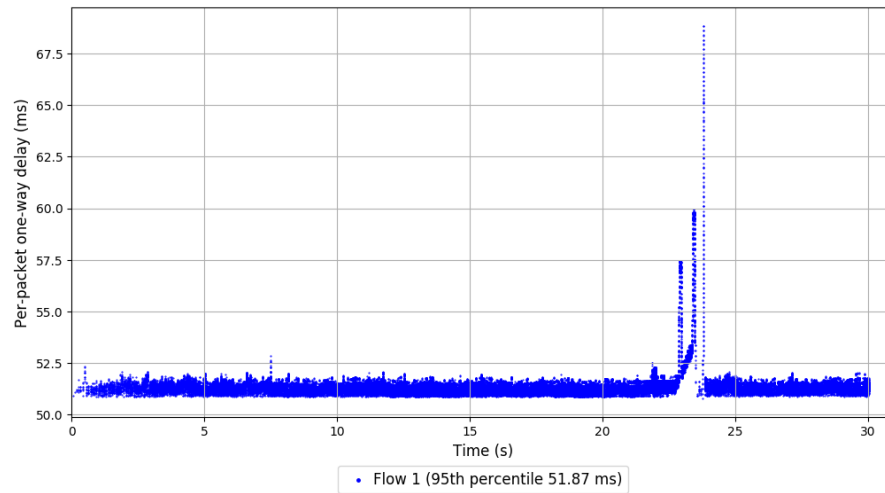
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2017-09-23 04:07:41
End at: 2017-09-23 04:08:11
Local clock offset: -1.111 ms
Remote clock offset: 0.837 ms


# Below is generated by plot.py at 2017-09-23 07:03:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.91 Mbit/s
95th percentile per-packet one-way delay: 51.870 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 47.91 Mbit/s
95th percentile per-packet one-way delay: 51.870 ms
Loss rate: 0.03%
```
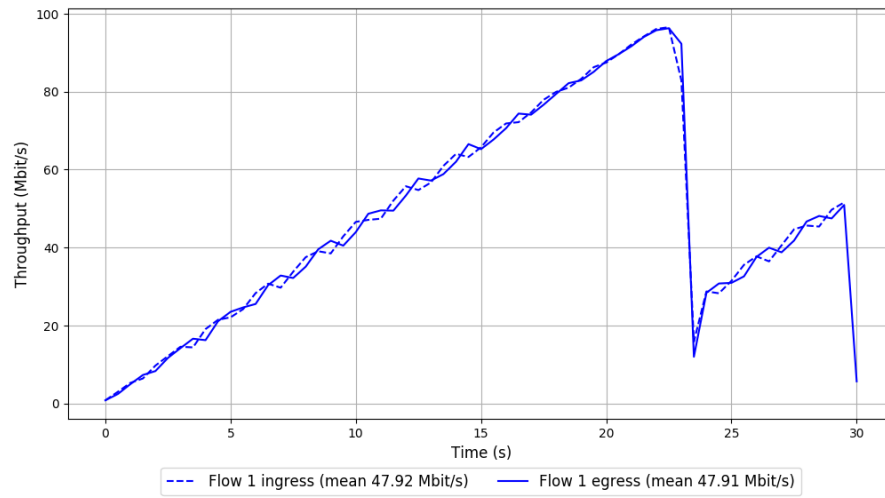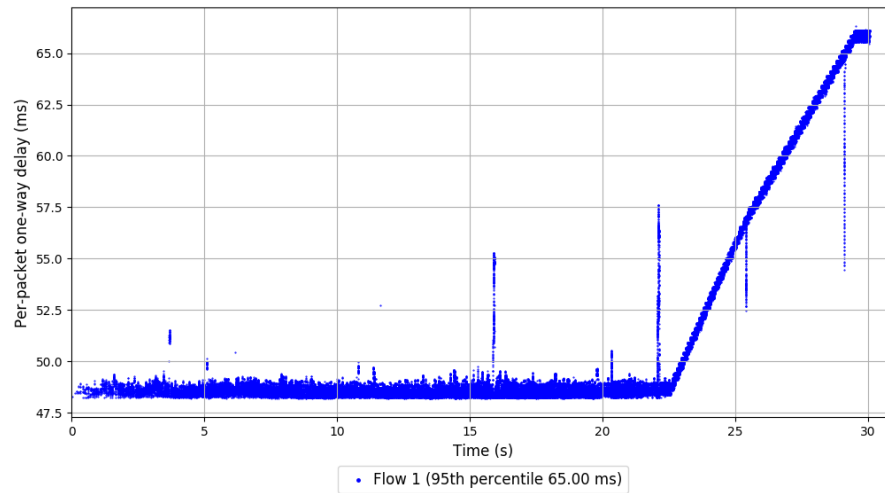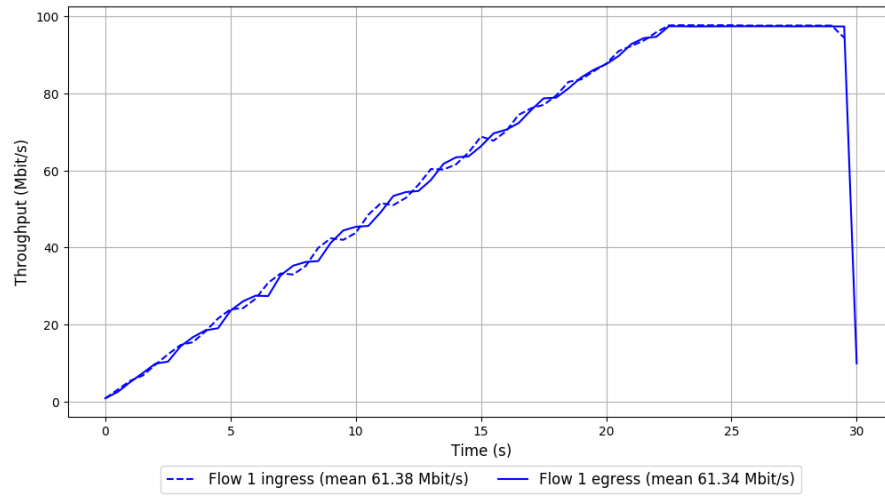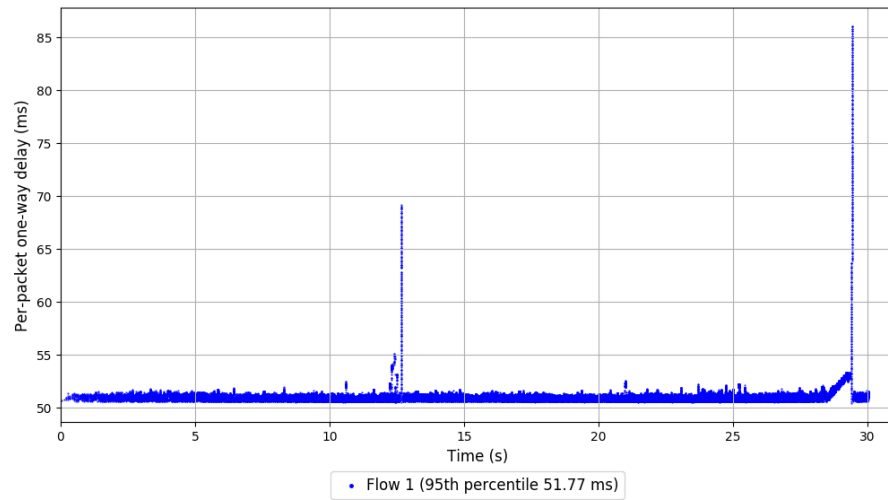
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2017-09-23 04:26:31
End at: 2017-09-23 04:27:01
Local clock offset: -0.904 ms
Remote clock offset: -1.626 ms


# Below is generated by plot.py at 2017-09-23 07:03:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.34 Mbit/s
95th percentile per-packet one-way delay: 65.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.34 Mbit/s
95th percentile per-packet one-way delay: 65.000 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2017-09-23 04:45:41
End at: 2017-09-23 04:46:11
Local clock offset: -0.777 ms
Remote clock offset: 0.121 ms


# Below is generated by plot.py at 2017-09-23 07:03:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.68 Mbit/s
95th percentile per-packet one-way delay: 51.770 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 48.68 Mbit/s
95th percentile per-packet one-way delay: 51.770 ms
Loss rate: 0.02%
```
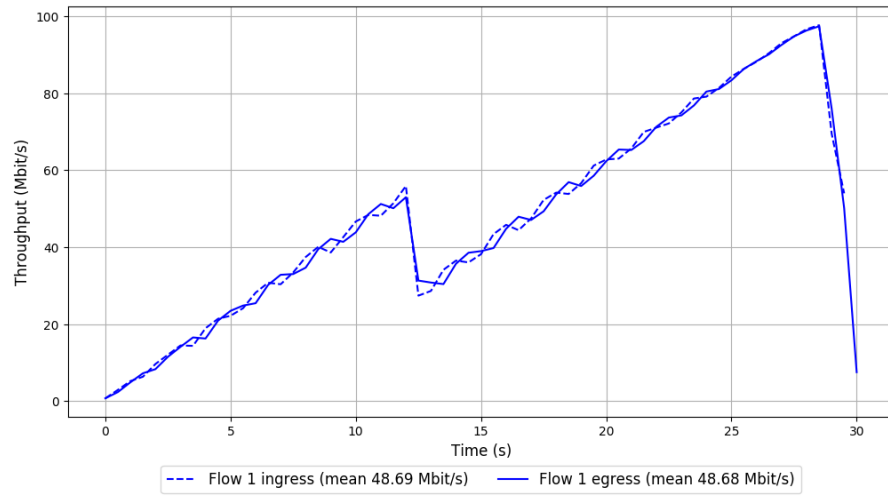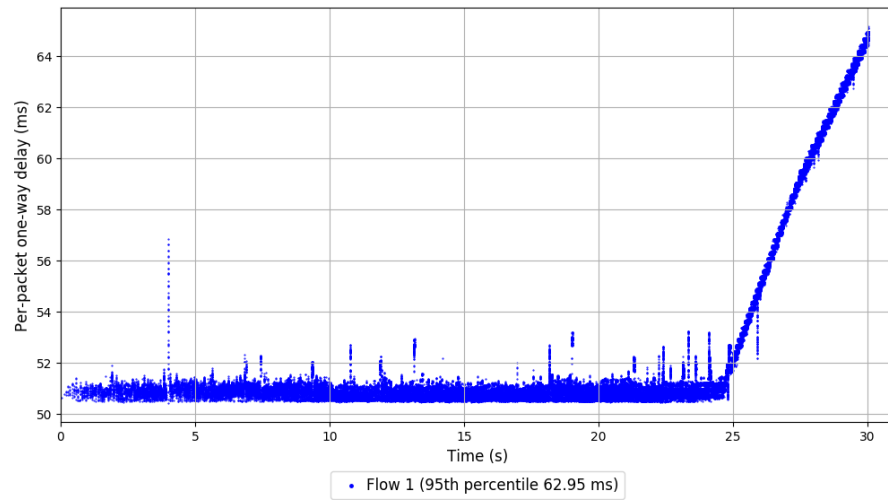
Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 48.69 Mbit/s) — — — Flow 1 egress (mean 48.68 Mbit/s)

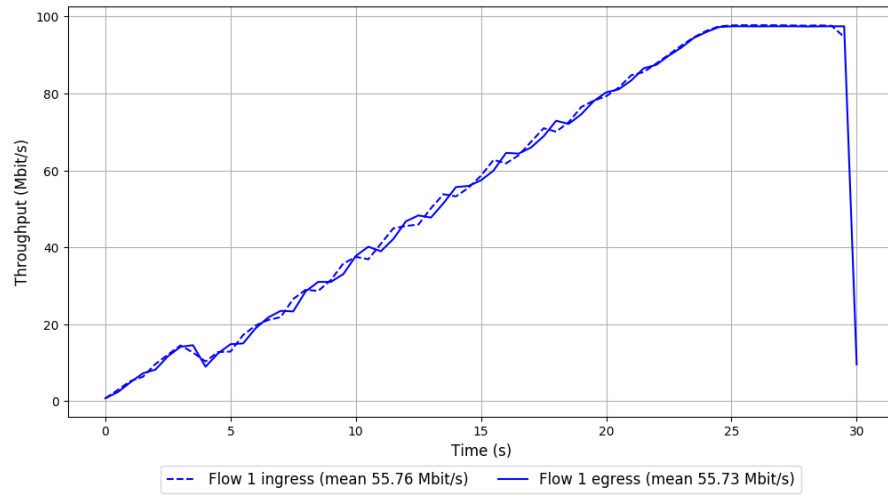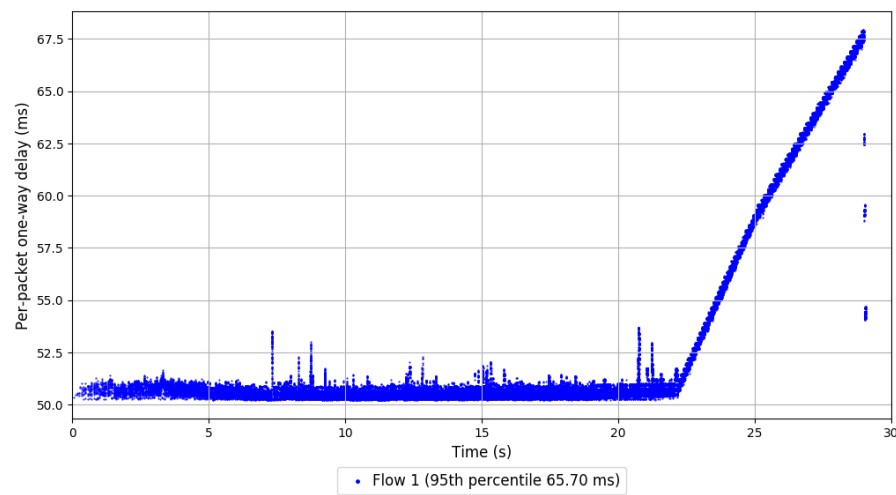• Flow 1 (95th percentile 51.77 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2017-09-23 05:04:28
End at: 2017-09-23 05:04:58
Local clock offset: -0.813 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2017-09-23 07:04:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 62.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 62.951 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 55.76 Mbit/s)   Flow 1 egress (mean 55.73 Mbit/s)

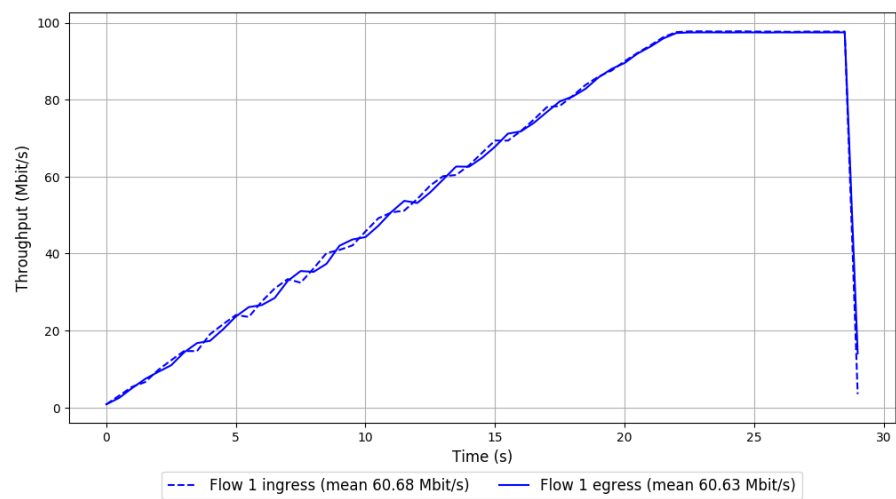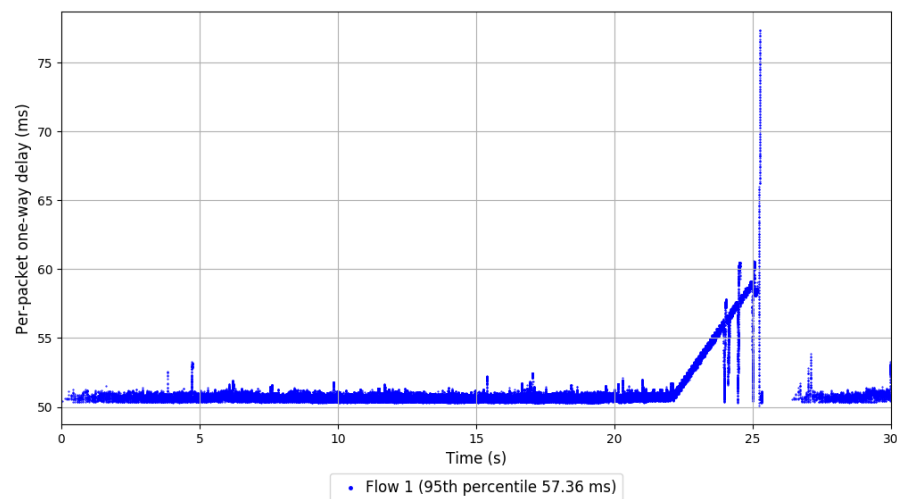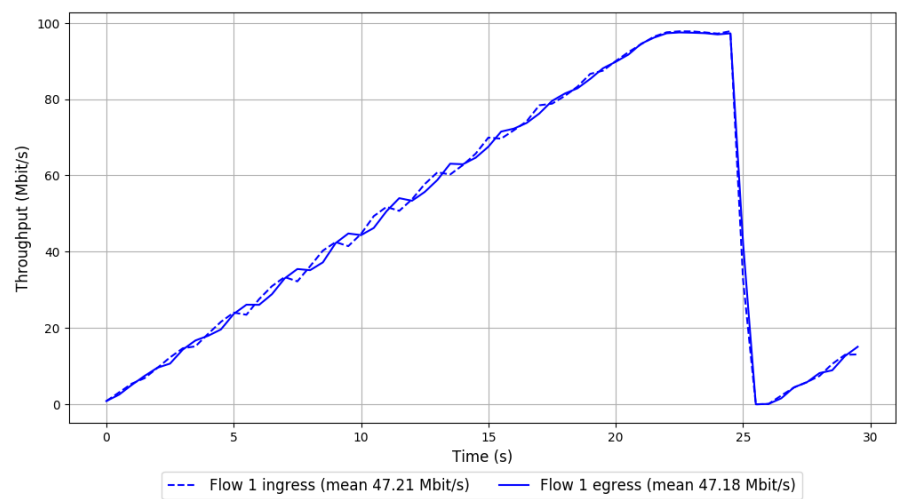Flow 1 (95th percentile 62.95 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2017-09-23 05:23:25
End at: 2017-09-23 05:23:55
Local clock offset: -0.799 ms
Remote clock offset: -0.522 ms


# Below is generated by plot.py at 2017-09-23 07:04:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 65.698 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 65.698 ms
Loss rate: 0.07%
```

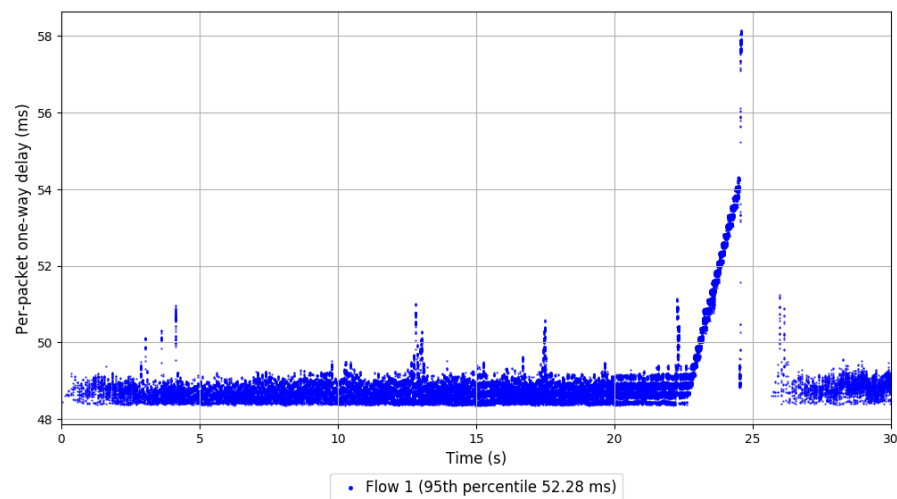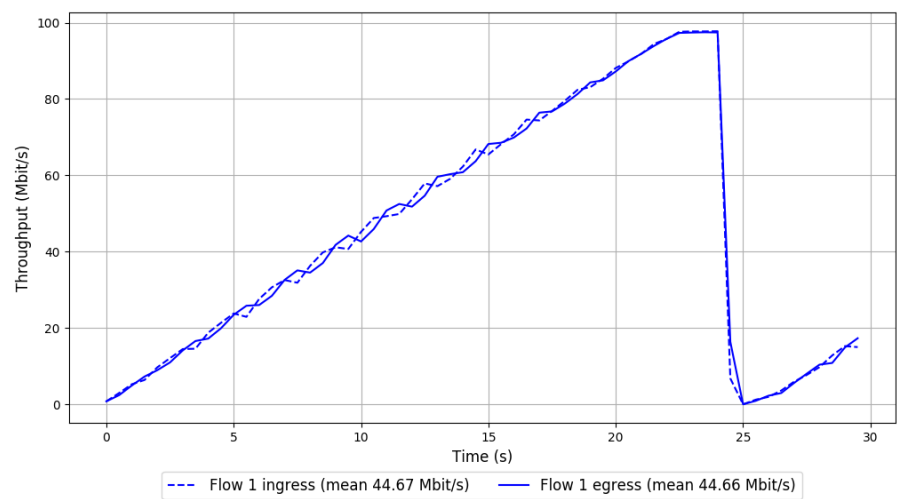Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 60.68 Mbit/s)   Flow 1 egress (mean 60.63 Mbit/s)

Flow 1 (95th percentile 65.70 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2017-09-23 05:42:19
End at: 2017-09-23 05:42:49
Local clock offset: -0.685 ms
Remote clock offset: -0.555 ms


# Below is generated by plot.py at 2017-09-23 07:04:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.18 Mbit/s
95th percentile per-packet one-way delay: 57.364 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 47.18 Mbit/s
95th percentile per-packet one-way delay: 57.364 ms
Loss rate: 0.07%
```

Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 47.21 Mbit/s) ——— Flow 1 egress (mean 47.18 Mbit/s)

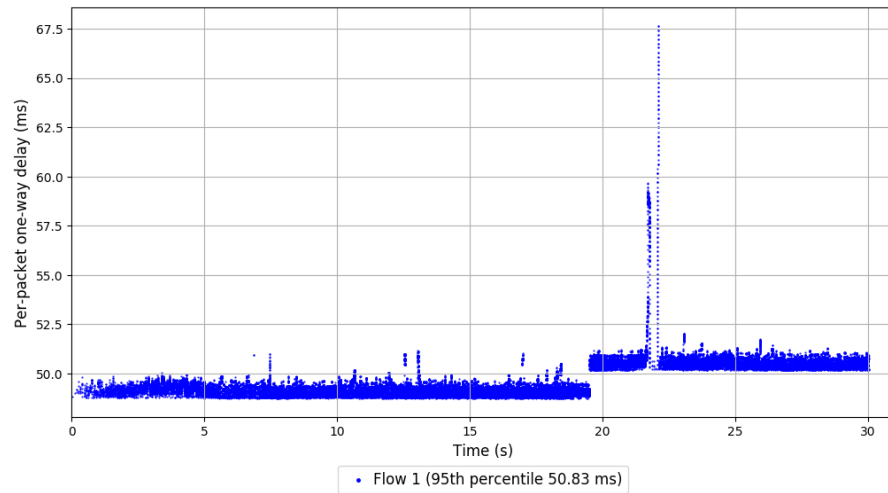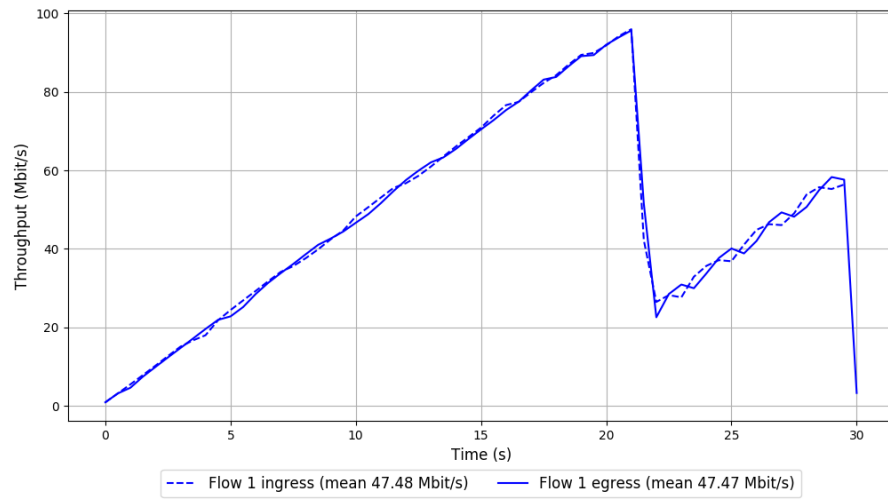• Flow 1 (95th percentile 57.36 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2017-09-23 06:01:17
End at: 2017-09-23 06:01:47
Local clock offset: -0.977 ms
Remote clock offset: -2.735 ms


# Below is generated by plot.py at 2017-09-23 07:04:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.66 Mbit/s
95th percentile per-packet one-way delay: 52.280 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 44.66 Mbit/s
95th percentile per-packet one-way delay: 52.280 ms
Loss rate: 0.04%
```

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 44.67 Mbit/s) ----   Flow 1 egress (mean 44.66 Mbit/s) ——

Flow 1 (95th percentile 52.28 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2017-09-23 06:20:08
End at: 2017-09-23 06:20:38
Local clock offset: -1.086 ms
Remote clock offset: -0.477 ms


# Below is generated by plot.py at 2017-09-23 07:04:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.47 Mbit/s
95th percentile per-packet one-way delay: 50.826 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 47.47 Mbit/s
95th percentile per-packet one-way delay: 50.826 ms
Loss rate: 0.02%
```
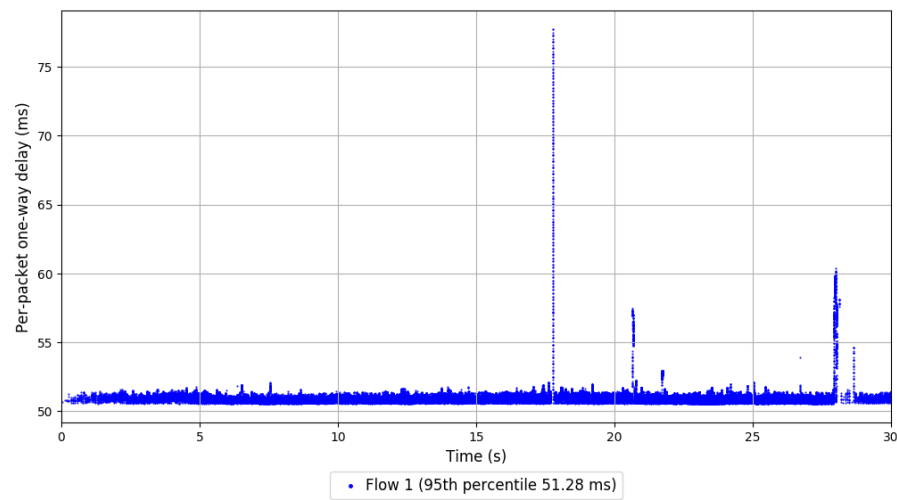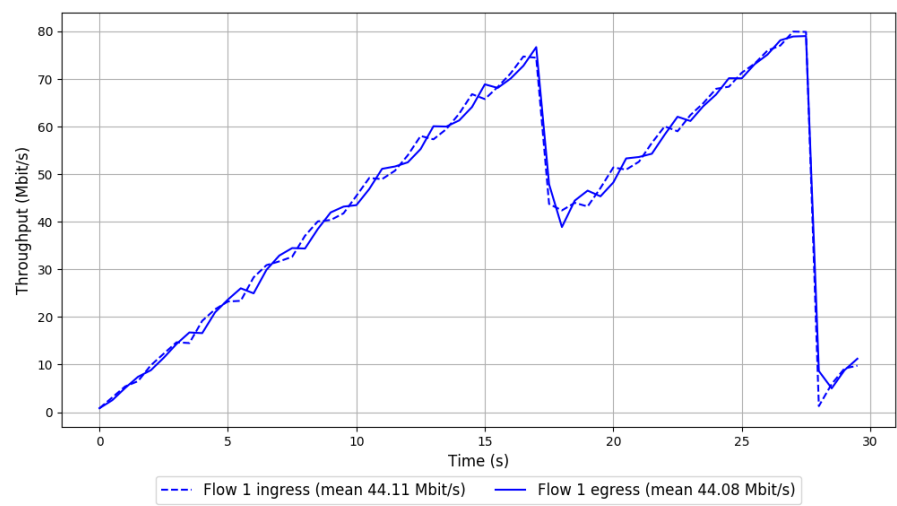
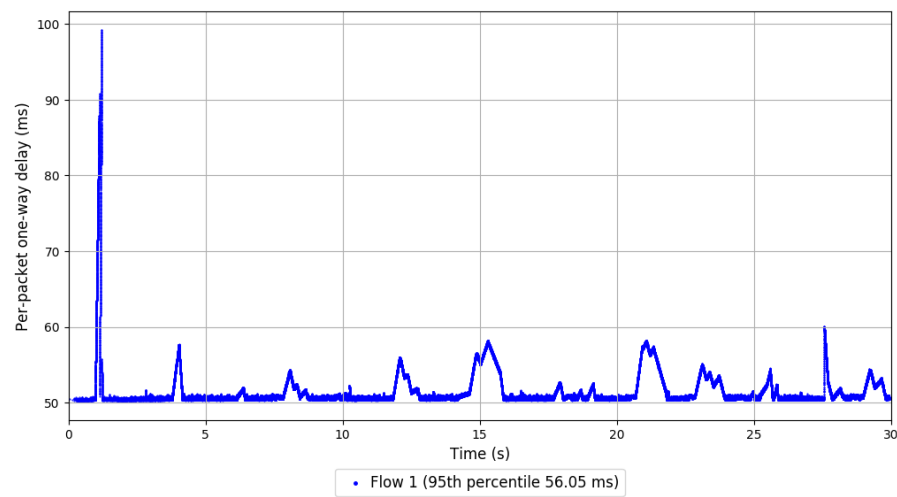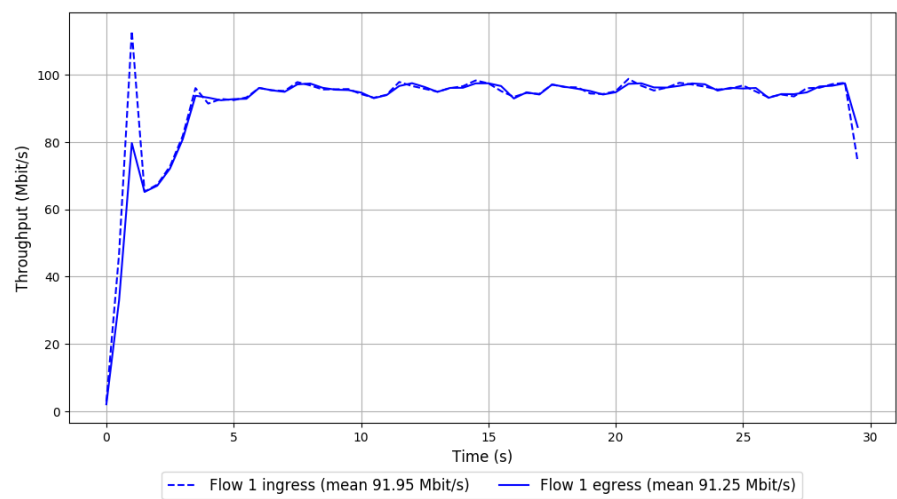Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 47.48 Mbit/s)   Flow 1 egress (mean 47.47 Mbit/s)

Flow 1 (95th percentile 50.83 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2017-09-23 06:39:03
End at: 2017-09-23 06:39:33
Local clock offset: -1.179 ms
Remote clock offset: -0.14 ms


# Below is generated by plot.py at 2017-09-23 07:04:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.08 Mbit/s
95th percentile per-packet one-way delay: 51.281 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 44.08 Mbit/s
95th percentile per-packet one-way delay: 51.281 ms
Loss rate: 0.06%
```
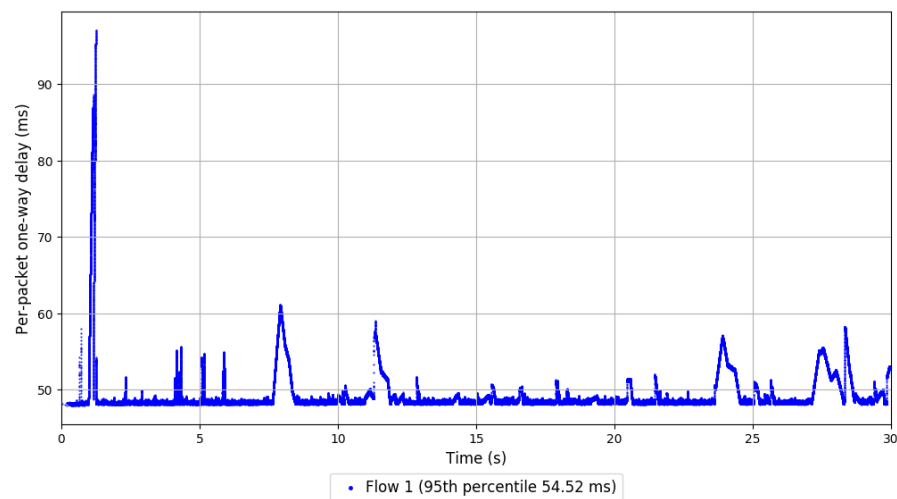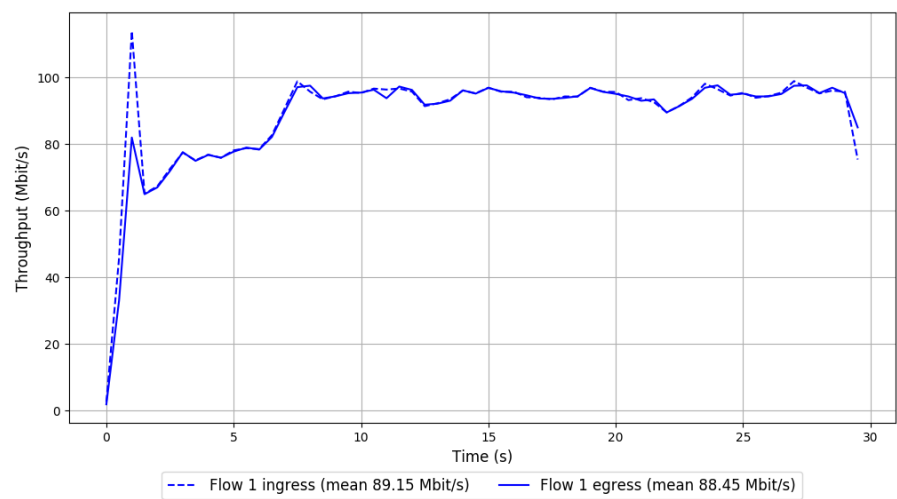
Run 10: Report of LEDBAT — Data Link

63

```
Run 1: Statistics of PCC

Start at: 2017-09-23 03:50:14
End at: 2017-09-23 03:50:44
Local clock offset: -2.431 ms
Remote clock offset: 0.574 ms


# Below is generated by plot.py at 2017-09-23 07:04:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 56.046 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 91.25 Mbit/s
95th percentile per-packet one-way delay: 56.046 ms
Loss rate: 0.75%
```

Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 91.95 Mbit/s)   Flow 1 egress (mean 91.25 Mbit/s)

• Flow 1 (95th percentile 56.05 ms)

```
Run 2: Statistics of PCC

Start at: 2017-09-23 04:09:02
End at: 2017-09-23 04:09:32
Local clock offset: -1.048 ms
Remote clock offset: -1.672 ms

# Below is generated by plot.py at 2017-09-23 07:05:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.45 Mbit/s
95th percentile per-packet one-way delay: 54.520 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 88.45 Mbit/s
95th percentile per-packet one-way delay: 54.520 ms
Loss rate: 0.77%
```
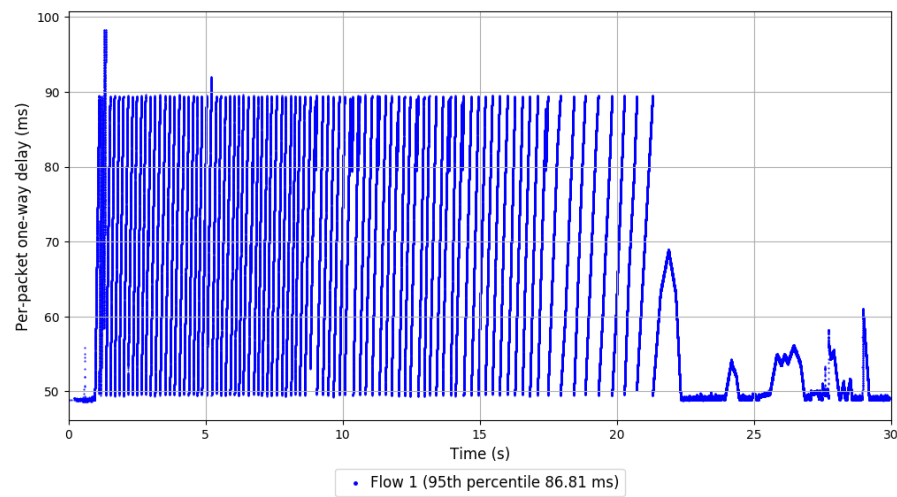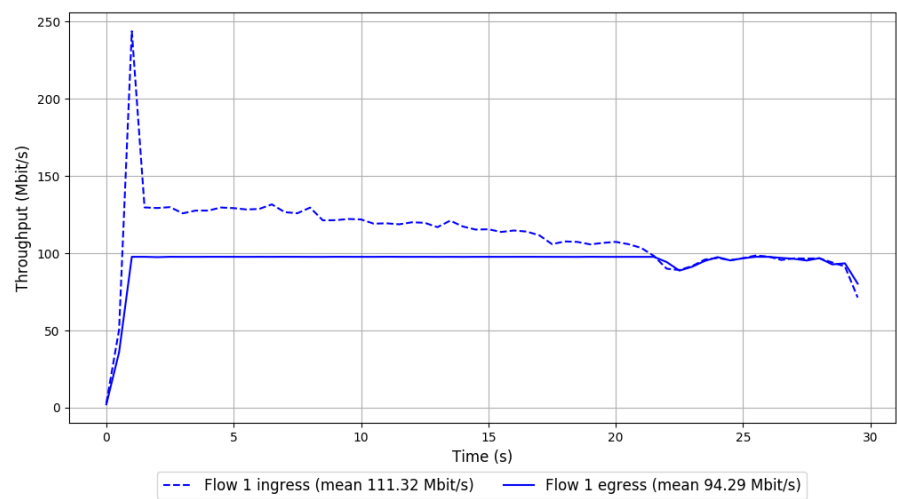
Run 2: Report of PCC — Data Link

Flow 1 ingress (mean 89.15 Mbit/s)   Flow 1 egress (mean 88.45 Mbit/s)

Flow 1 (95th percentile 54.52 ms)

```
Run 3: Statistics of PCC

Start at: 2017-09-23 04:27:53
End at: 2017-09-23 04:28:23
Local clock offset: -0.897 ms
Remote clock offset: 0.401 ms

# Below is generated by plot.py at 2017-09-23 07:05:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 86.805 ms
Loss rate: 15.29%
-- Flow 1:
Average throughput: 94.29 Mbit/s
95th percentile per-packet one-way delay: 86.805 ms
Loss rate: 15.29%
```
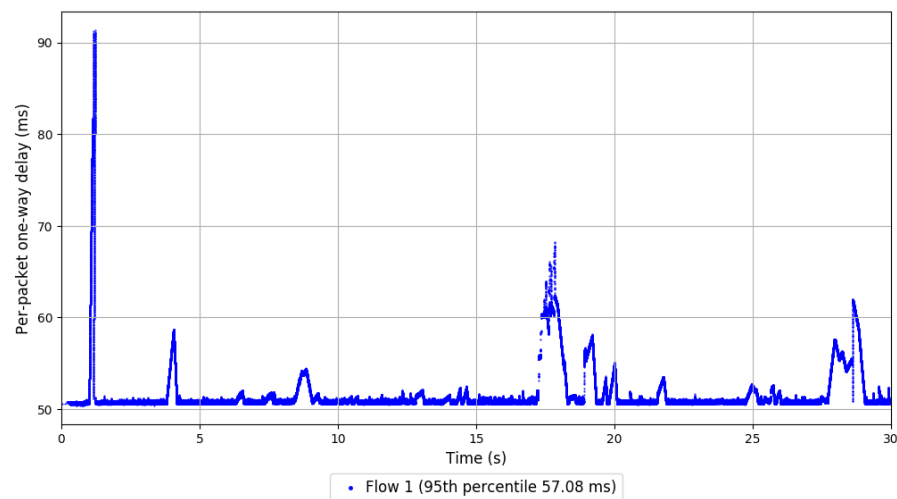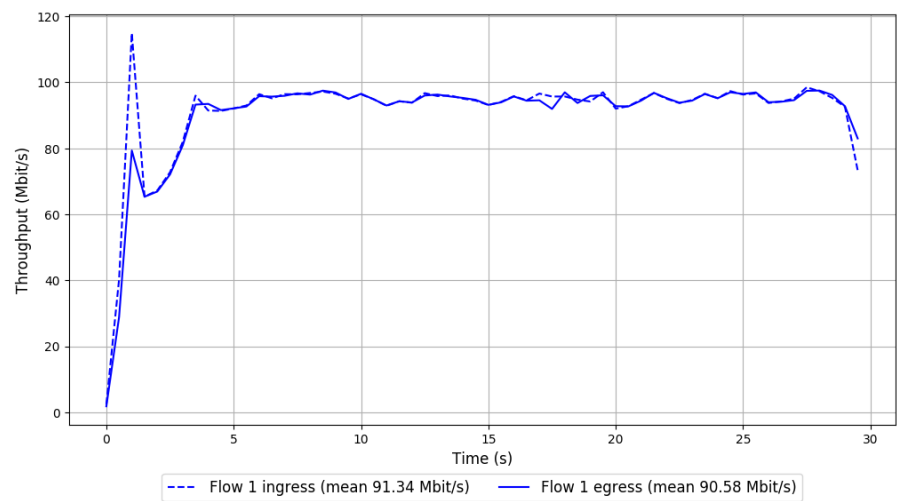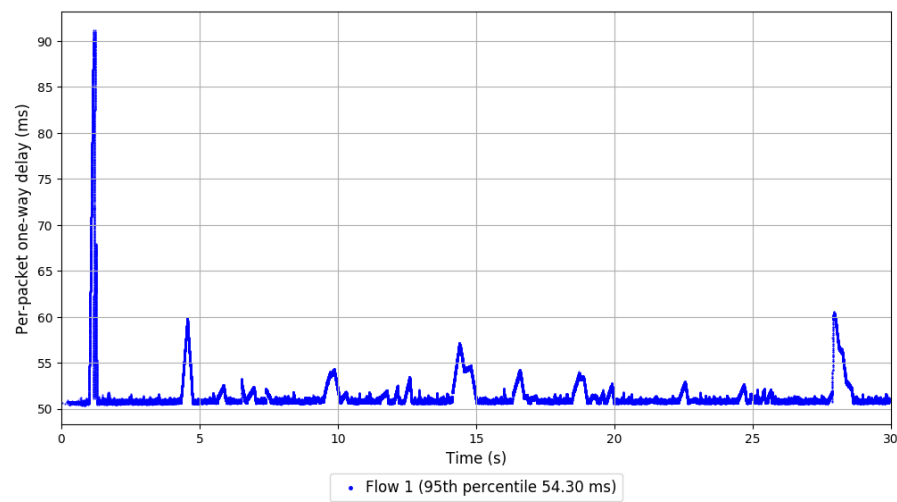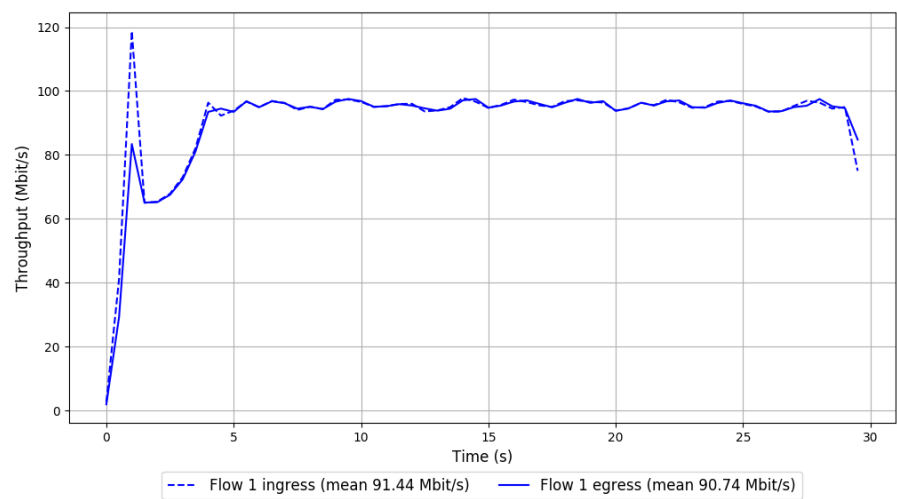
Run 3: Report of PCC — Data Link

```
Run 4: Statistics of PCC

Start at: 2017-09-23 04:47:01
End at: 2017-09-23 04:47:31
Local clock offset: -0.805 ms
Remote clock offset: 0.147 ms


# Below is generated by plot.py at 2017-09-23 07:05:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.58 Mbit/s
95th percentile per-packet one-way delay: 57.084 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 90.58 Mbit/s
95th percentile per-packet one-way delay: 57.084 ms
Loss rate: 0.83%
```

Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 91.34 Mbit/s) ——— Flow 1 egress (mean 90.58 Mbit/s)

• Flow 1 (95th percentile 57.08 ms)

71

```
Run 5: Statistics of PCC

Start at: 2017-09-23 05:05:49
End at: 2017-09-23 05:06:19
Local clock offset: -0.907 ms
Remote clock offset: -0.061 ms


# Below is generated by plot.py at 2017-09-23 07:05:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 54.301 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 90.74 Mbit/s
95th percentile per-packet one-way delay: 54.301 ms
Loss rate: 0.76%
```
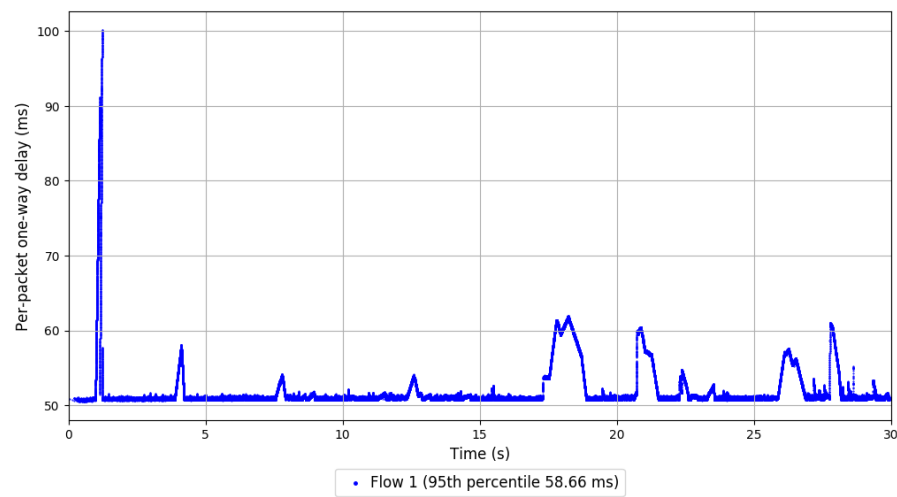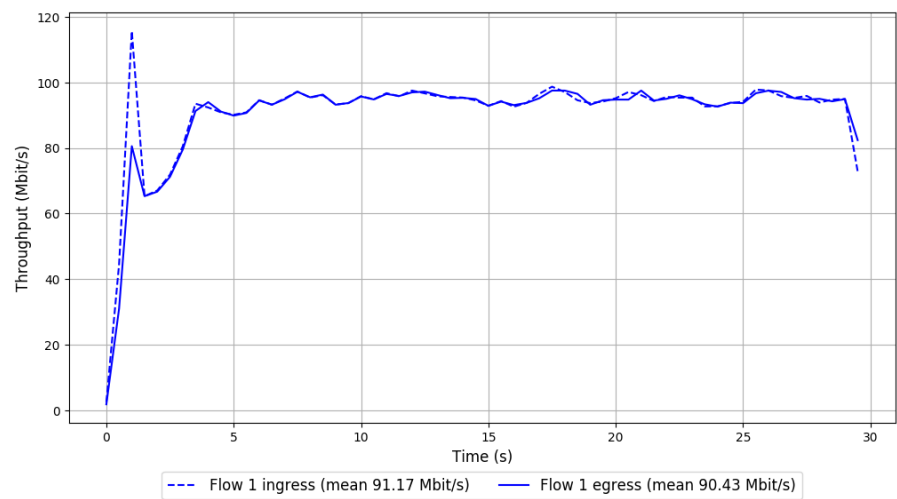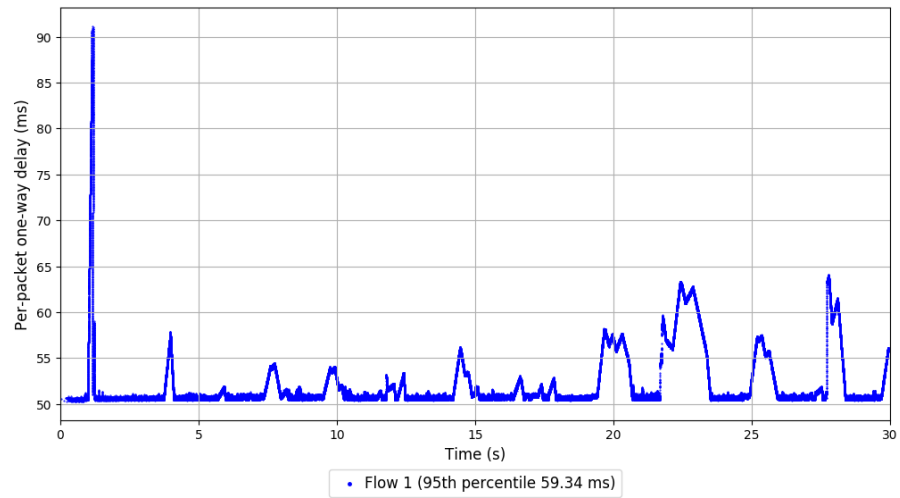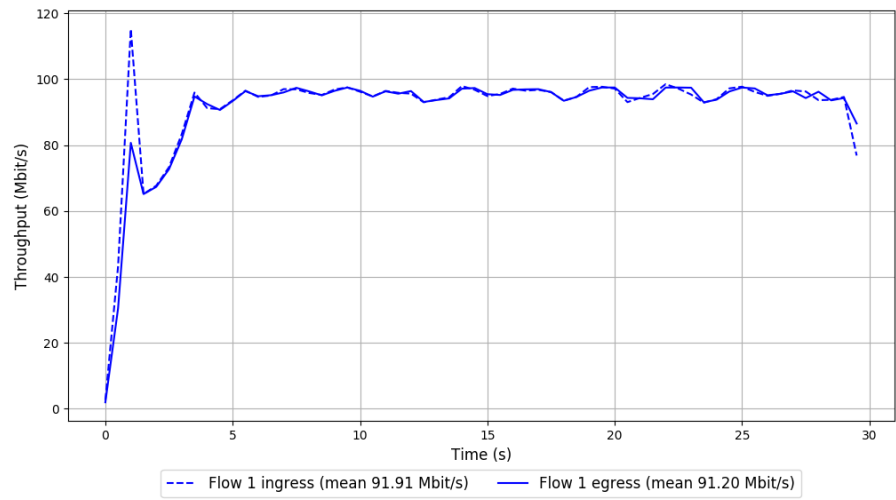
Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 91.44 Mbit/s) --- Flow 1 egress (mean 90.74 Mbit/s)

• Flow 1 (95th percentile 54.30 ms)

73

```
Run 6: Statistics of PCC

Start at: 2017-09-23 05:24:46
End at: 2017-09-23 05:25:16
Local clock offset: -0.715 ms
Remote clock offset: 0.01 ms


# Below is generated by plot.py at 2017-09-23 07:05:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 58.663 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 58.663 ms
Loss rate: 0.81%
```
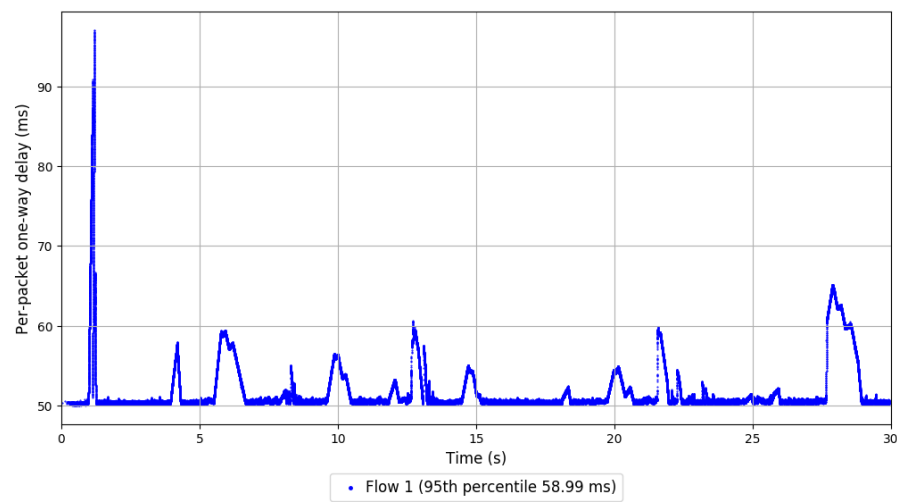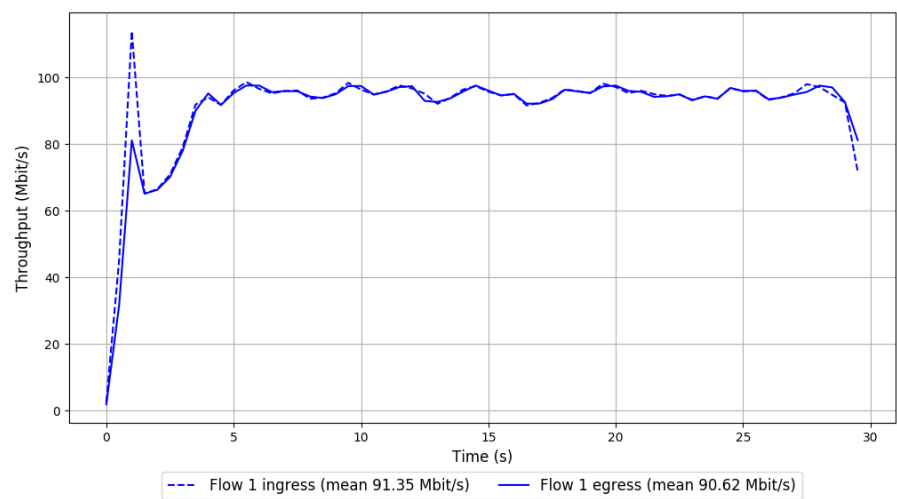
Run 6: Report of PCC — Data Link

```
Run 7: Statistics of PCC

Start at: 2017-09-23 05:43:38
End at: 2017-09-23 05:44:08
Local clock offset: -0.72 ms
Remote clock offset: -0.642 ms


# Below is generated by plot.py at 2017-09-23 07:05:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 59.339 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 91.20 Mbit/s
95th percentile per-packet one-way delay: 59.339 ms
Loss rate: 0.76%
```

Run 7: Report of PCC — Data Link

Flow 1 ingress (mean 91.91 Mbit/s)   Flow 1 egress (mean 91.20 Mbit/s)

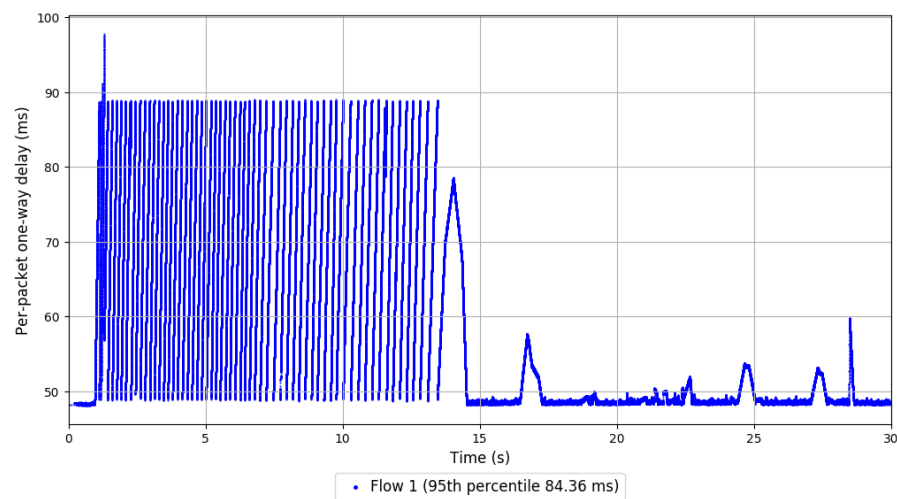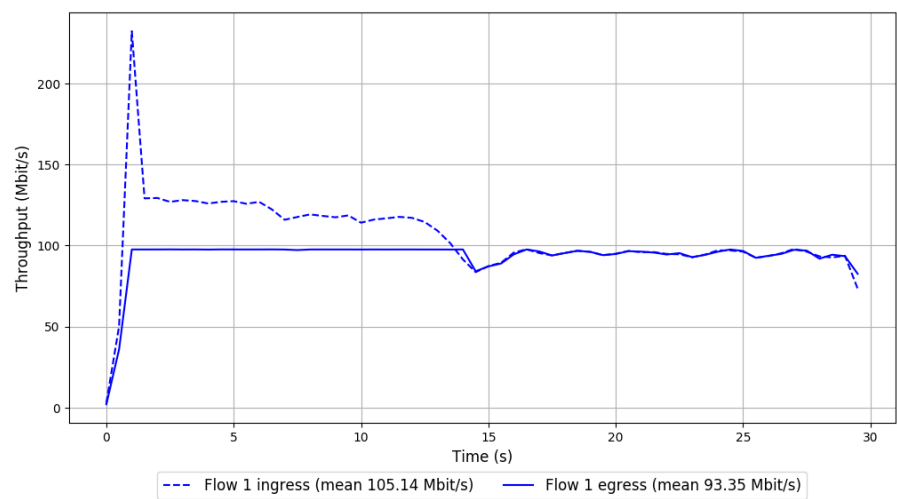Flow 1 (95th percentile 59.34 ms)

```
Run 8: Statistics of PCC

Start at: 2017-09-23 06:02:36
End at: 2017-09-23 06:03:06
Local clock offset: -0.949 ms
Remote clock offset: -0.608 ms


# Below is generated by plot.py at 2017-09-23 07:05:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 58.992 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 58.992 ms
Loss rate: 0.80%
```
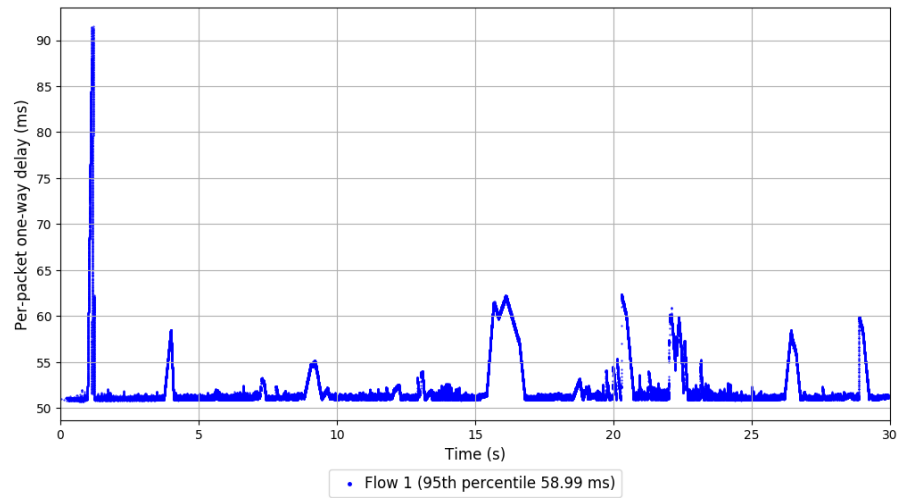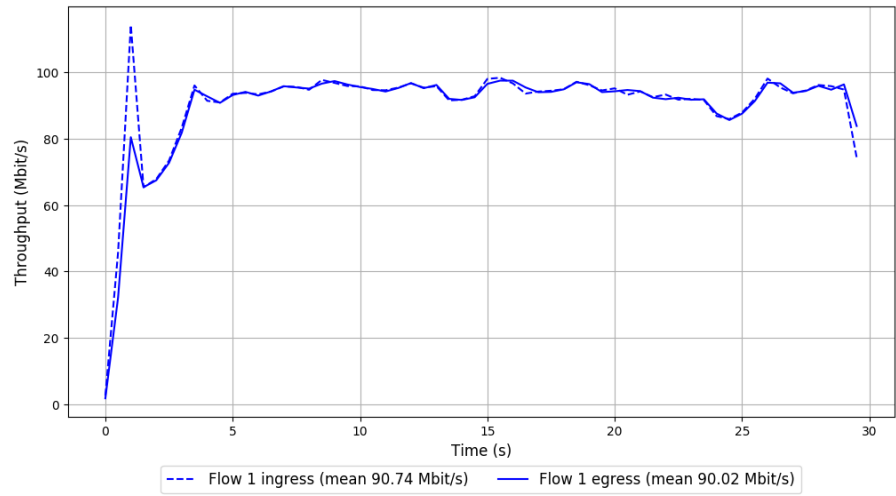
Run 8: Report of PCC — Data Link

Flow 1 ingress (mean 91.35 Mbit/s)   Flow 1 egress (mean 90.62 Mbit/s)

• Flow 1 (95th percentile 58.99 ms)

79

```
Run 9: Statistics of PCC

Start at: 2017-09-23 06:21:27
End at: 2017-09-23 06:21:57
Local clock offset: -1.039 ms
Remote clock offset: -2.548 ms


# Below is generated by plot.py at 2017-09-23 07:06:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 84.364 ms
Loss rate: 11.22%
-- Flow 1:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 84.364 ms
Loss rate: 11.22%
```

Run 9: Report of PCC — Data Link

--- Flow 1 ingress (mean 105.14 Mbit/s)   —— Flow 1 egress (mean 93.35 Mbit/s)

• Flow 1 (95th percentile 84.36 ms)

```
Run 10: Statistics of PCC

Start at: 2017-09-23 06:40:24
End at: 2017-09-23 06:40:54
Local clock offset: -1.06 ms
Remote clock offset: 0.34 ms


# Below is generated by plot.py at 2017-09-23 07:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 58.993 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 58.993 ms
Loss rate: 0.79%
```
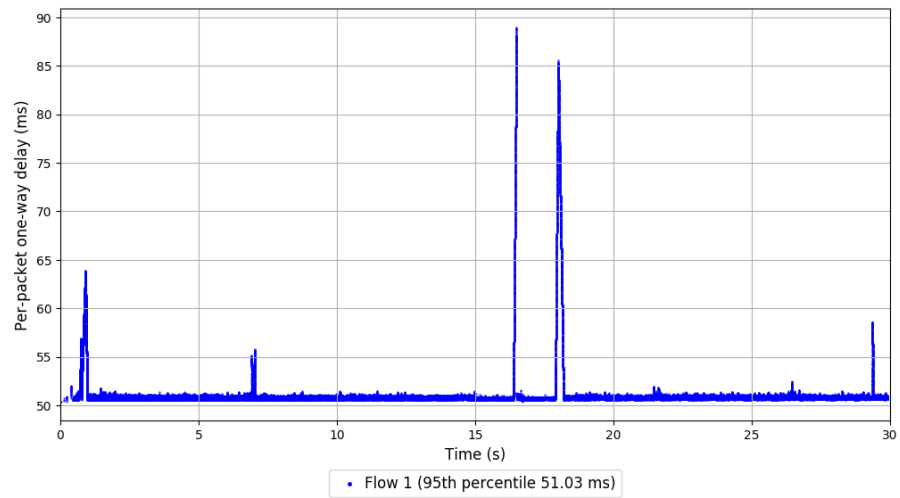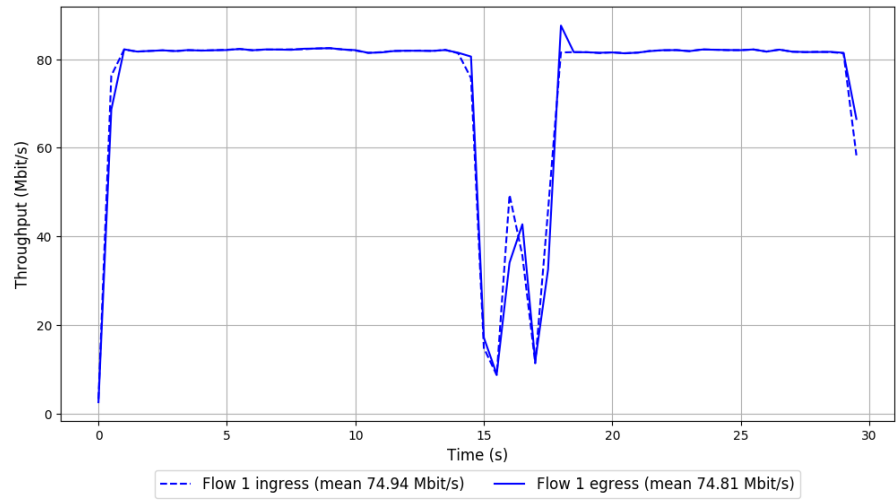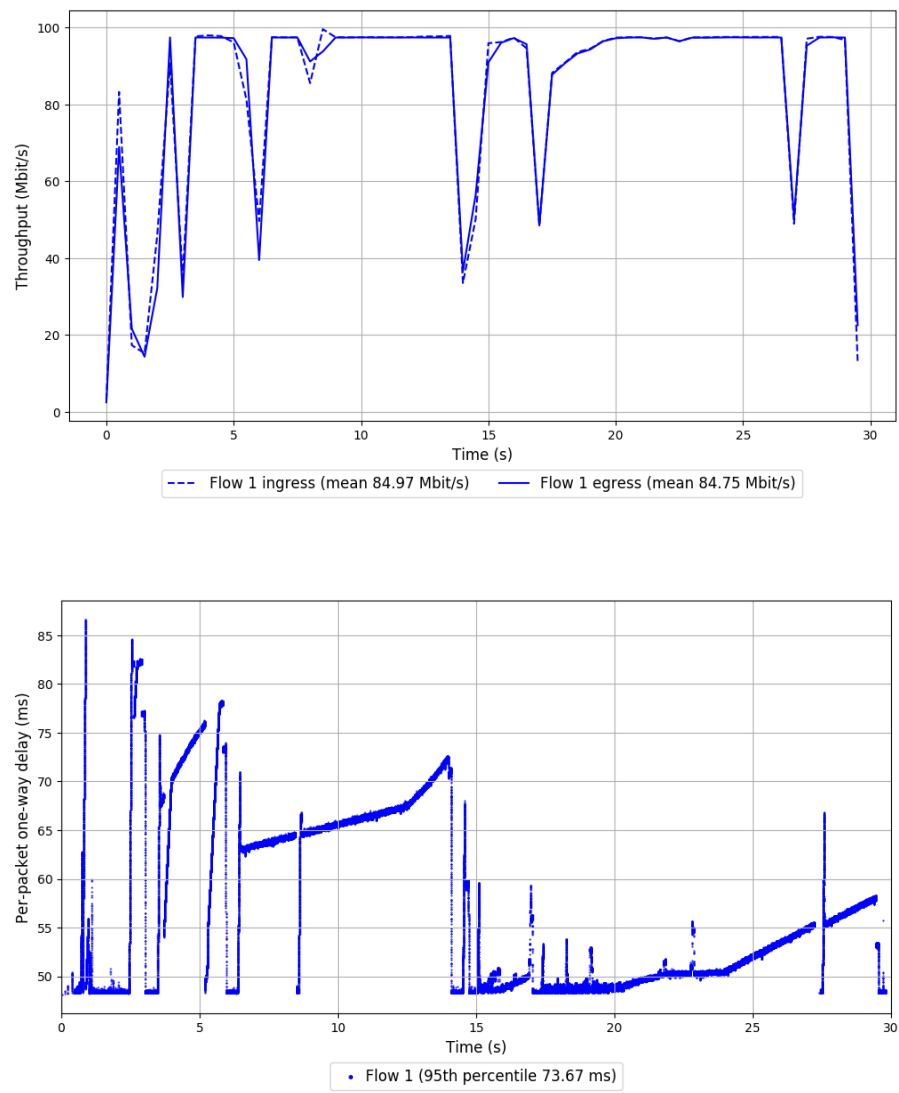
Run 10: Report of PCC — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-23 03:32:55
End at: 2017-09-23 03:33:25
Local clock offset: -2.712 ms
Remote clock offset: -0.939 ms
```

Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.08 Mbit/s) --- Flow 1 egress (mean 0.08 Mbit/s)

Flow 1 (95th percentile 48.33 ms)

```
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-23 03:51:34
End at: 2017-09-23 03:52:05
Local clock offset: -2.269 ms
Remote clock offset: 0.598 ms


# Below is generated by plot.py at 2017-09-23 07:06:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 51.029 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 74.81 Mbit/s
95th percentile per-packet one-way delay: 51.029 ms
Loss rate: 0.17%
```
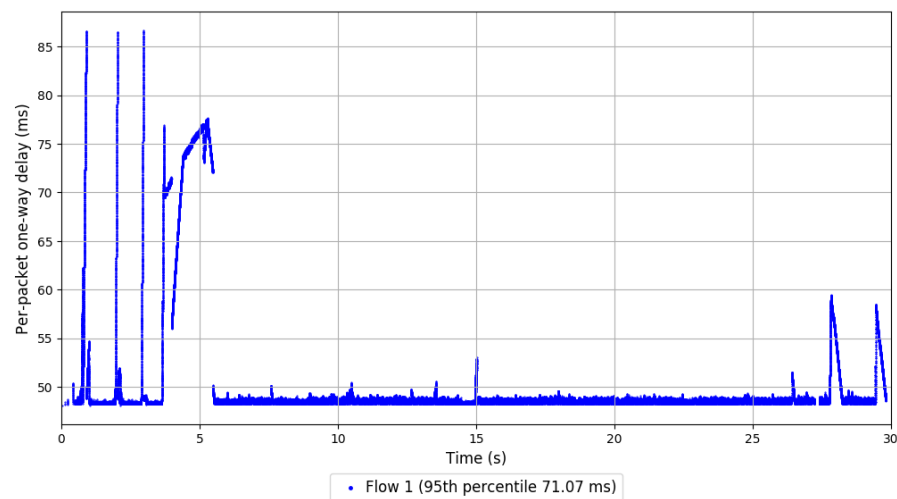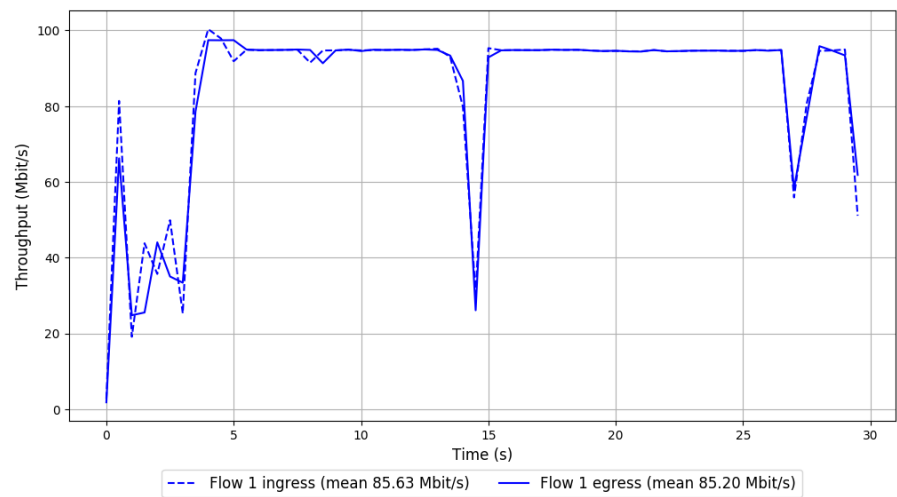
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 74.94 Mbit/s) —— Flow 1 egress (mean 74.81 Mbit/s)
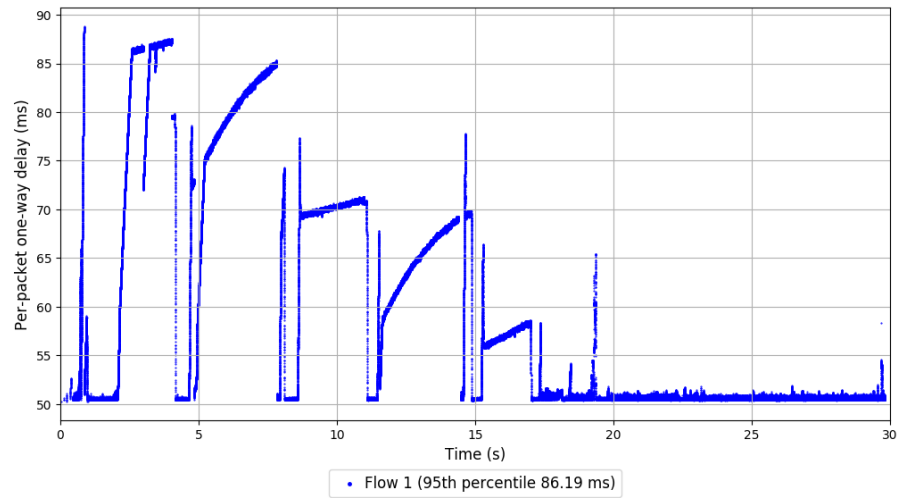
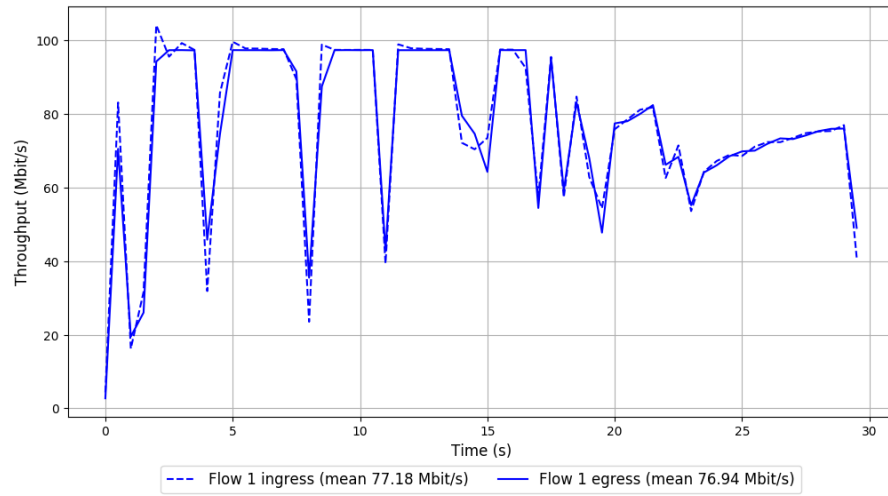

• Flow 1 (95th percentile 51.03 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2017-09-23 04:10:22
End at: 2017-09-23 04:10:52
Local clock offset: -0.988 ms
Remote clock offset: -1.708 ms


# Below is generated by plot.py at 2017-09-23 07:06:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.75 Mbit/s
95th percentile per-packet one-way delay: 73.675 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 84.75 Mbit/s
95th percentile per-packet one-way delay: 73.675 ms
Loss rate: 0.26%
```

Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 84.97 Mbit/s)   Flow 1 egress (mean 84.75 Mbit/s)
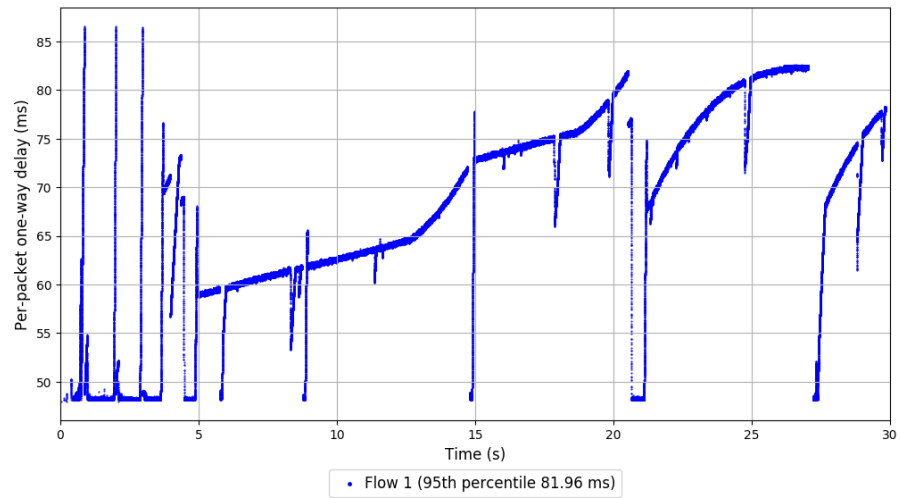
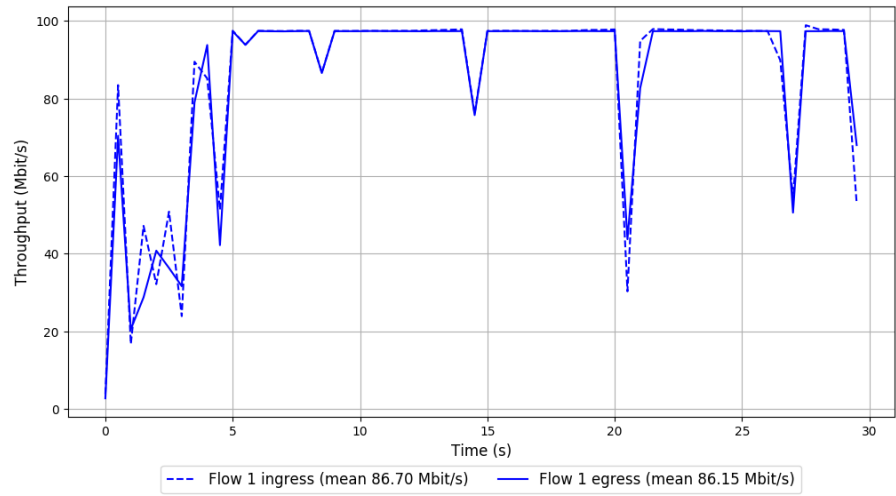

• Flow 1 (95th percentile 73.67 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2017-09-23 04:29:14
End at: 2017-09-23 04:29:44
Local clock offset: -0.968 ms
Remote clock offset: -1.729 ms


# Below is generated by plot.py at 2017-09-23 07:06:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.20 Mbit/s
95th percentile per-packet one-way delay: 71.073 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 85.20 Mbit/s
95th percentile per-packet one-way delay: 71.073 ms
Loss rate: 0.50%
```

Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 85.63 Mbit/s)   Flow 1 egress (mean 85.20 Mbit/s)

• Flow 1 (95th percentile 71.07 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2017-09-23 04:48:21
End at: 2017-09-23 04:48:51
Local clock offset: -0.854 ms
Remote clock offset: -0.012 ms


# Below is generated by plot.py at 2017-09-23 07:06:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 86.186 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 76.94 Mbit/s
95th percentile per-packet one-way delay: 86.186 ms
Loss rate: 0.31%
```
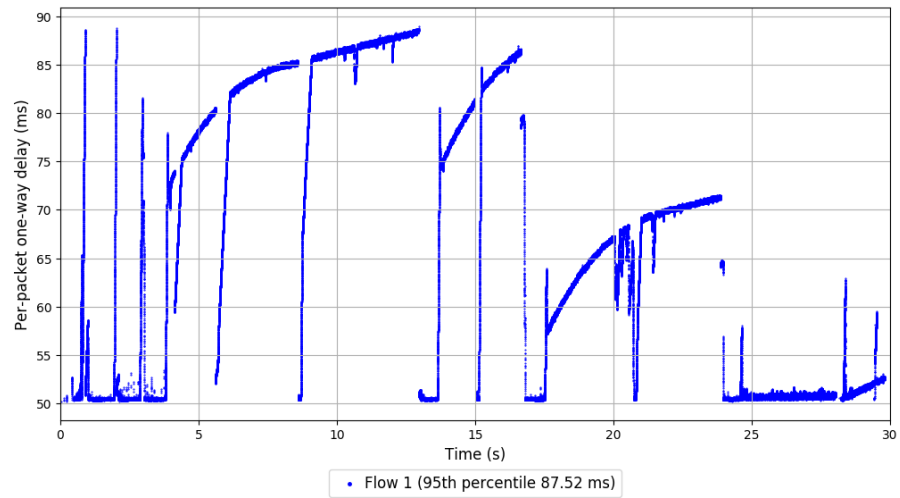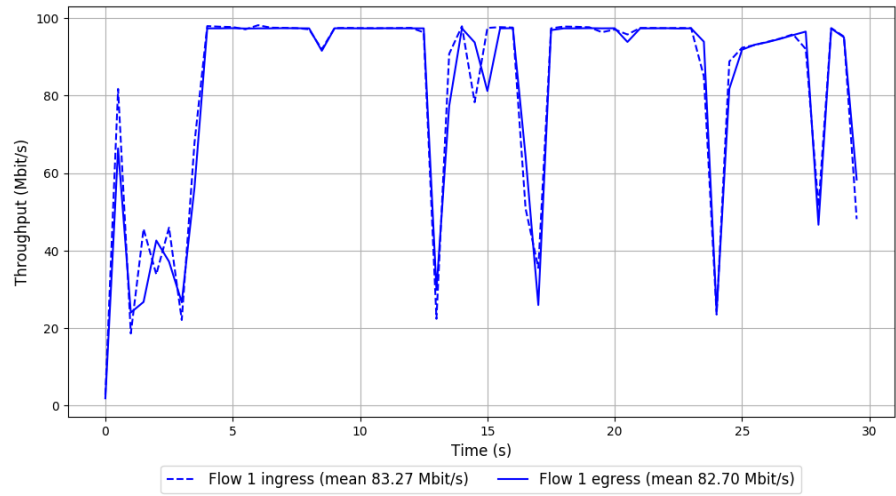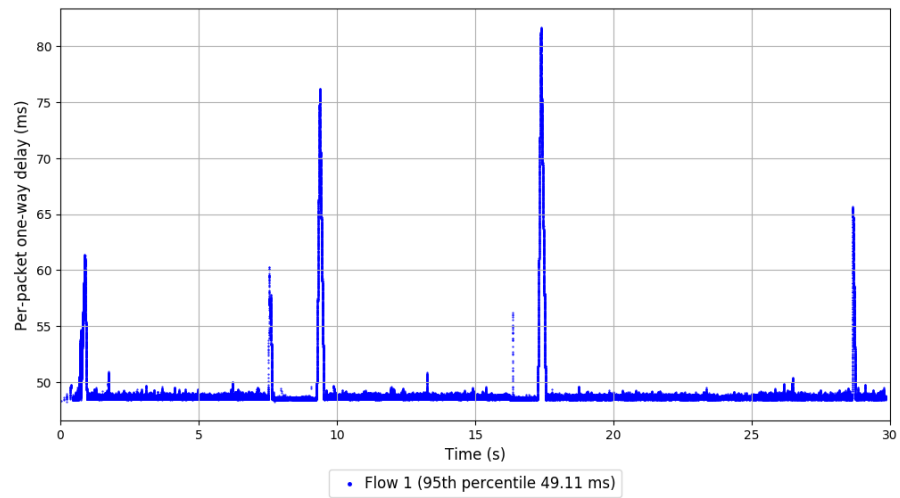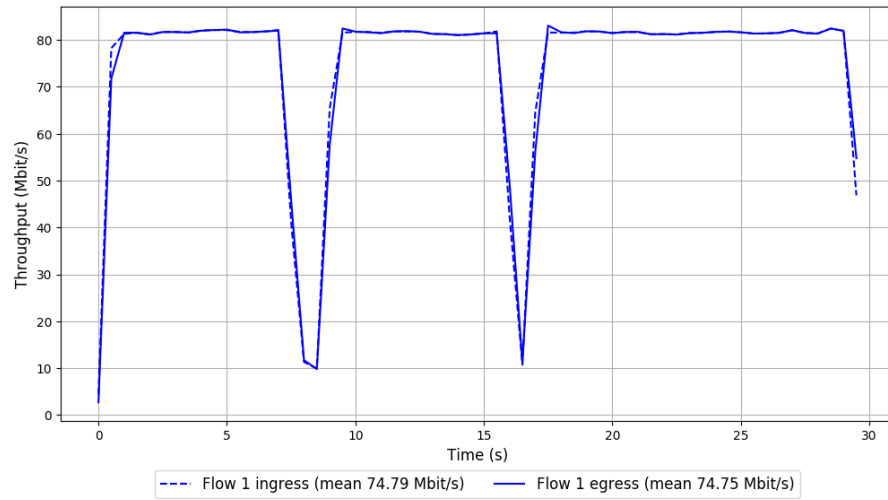
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 77.18 Mbit/s) — — —   Flow 1 egress (mean 76.94 Mbit/s) ———

• Flow 1 (95th percentile 86.19 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2017-09-23 05:07:10
End at: 2017-09-23 05:07:40
Local clock offset: -0.808 ms
Remote clock offset: -2.152 ms


# Below is generated by plot.py at 2017-09-23 07:07:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 81.956 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 86.15 Mbit/s
95th percentile per-packet one-way delay: 81.956 ms
Loss rate: 0.53%
```

Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 86.70 Mbit/s)   Flow 1 egress (mean 86.15 Mbit/s)

• Flow 1 (95th percentile 81.96 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2017-09-23 05:26:06
End at: 2017-09-23 05:26:36
Local clock offset: -0.817 ms
Remote clock offset: -0.47 ms


# Below is generated by plot.py at 2017-09-23 07:07:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.70 Mbit/s
95th percentile per-packet one-way delay: 87.520 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 82.70 Mbit/s
95th percentile per-packet one-way delay: 87.520 ms
Loss rate: 0.68%
```
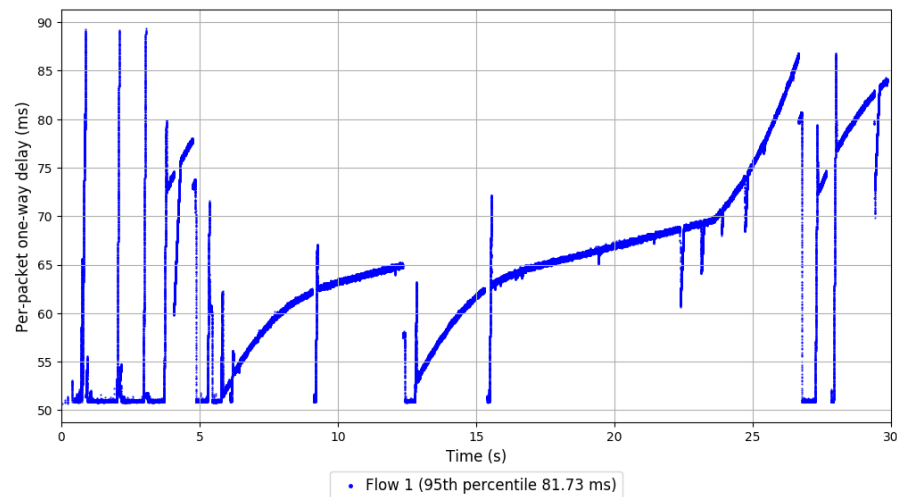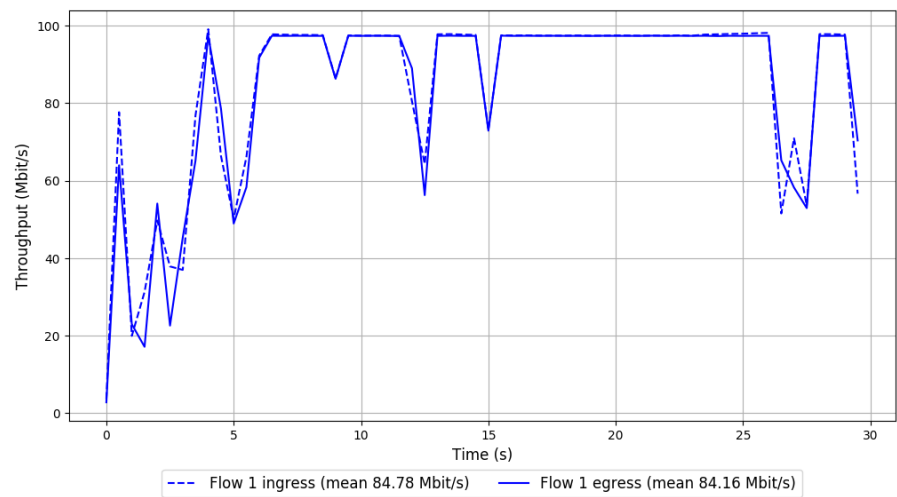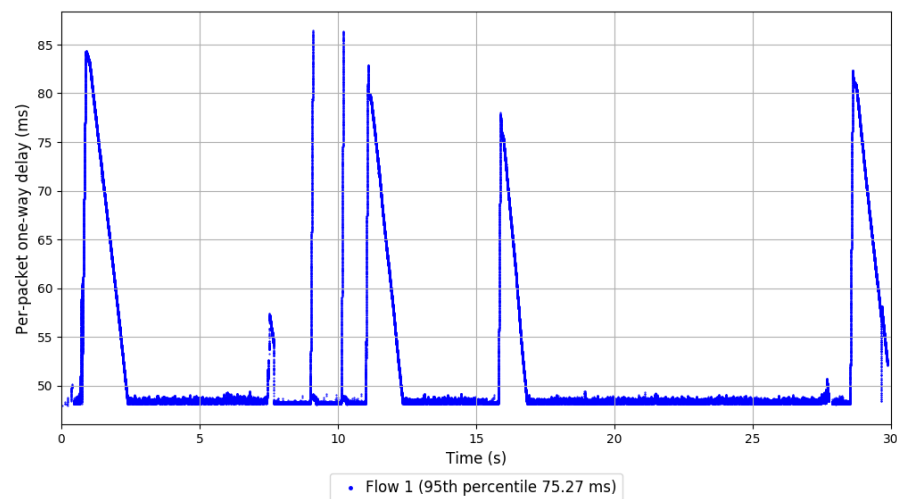
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 83.27 Mbit/s) --- Flow 1 egress (mean 82.70 Mbit/s)

• Flow 1 (95th percentile 87.52 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2017-09-23 05:44:59
End at: 2017-09-23 05:45:29
Local clock offset: -0.763 ms
Remote clock offset: -2.686 ms


# Below is generated by plot.py at 2017-09-23 07:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.75 Mbit/s
95th percentile per-packet one-way delay: 49.112 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 74.75 Mbit/s
95th percentile per-packet one-way delay: 49.112 ms
Loss rate: 0.05%
```
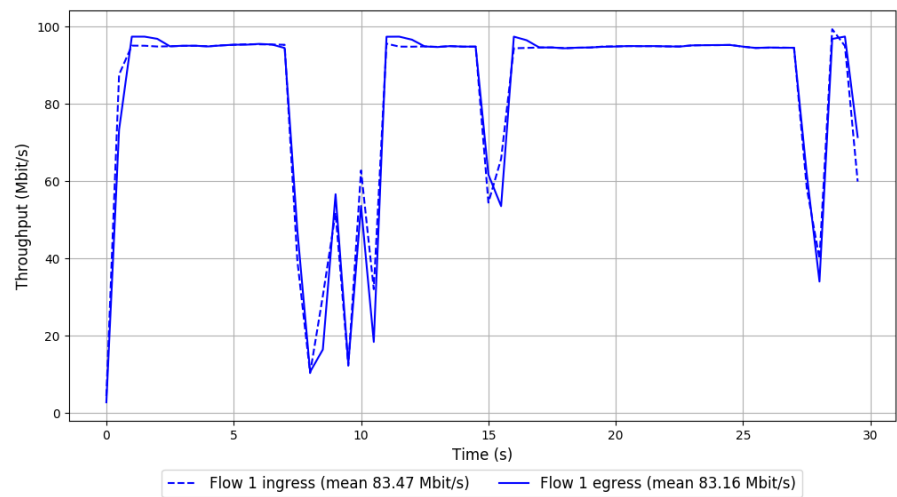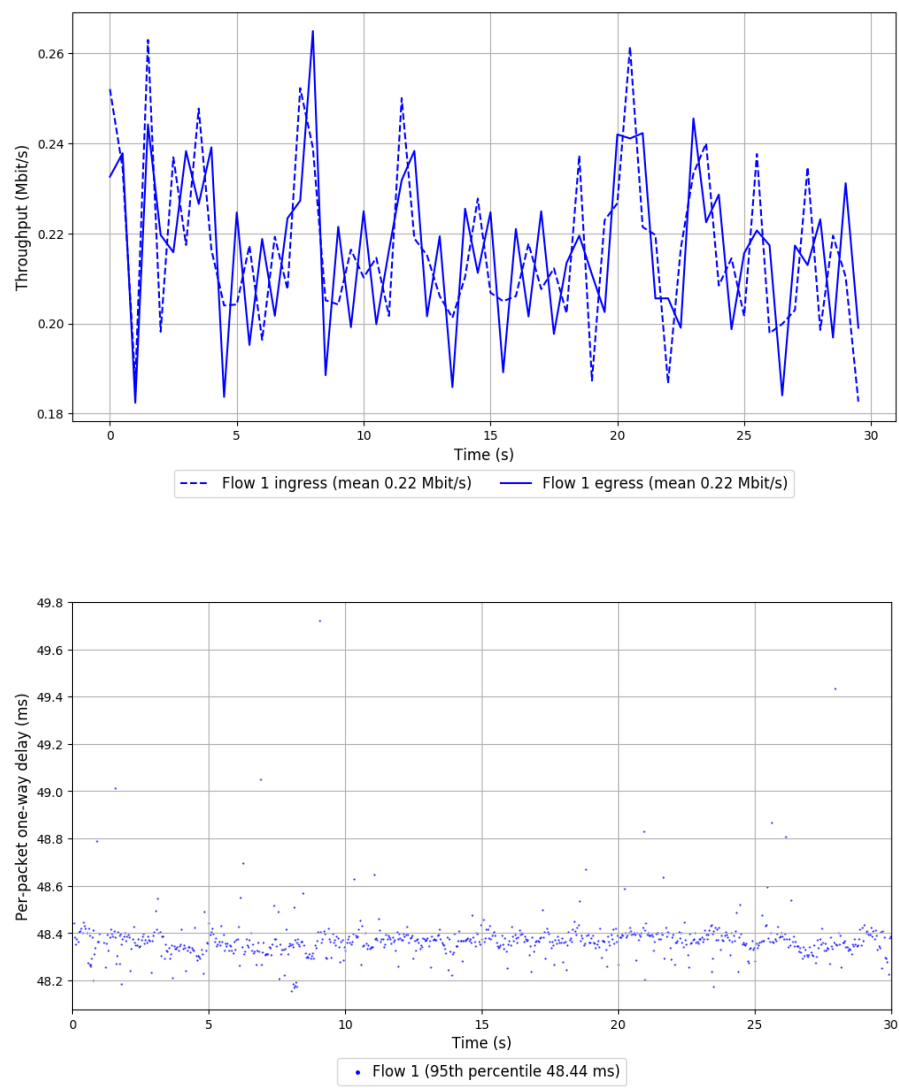
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 74.79 Mbit/s) —— Flow 1 egress (mean 74.75 Mbit/s)

• Flow 1 (95th percentile 49.11 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2017-09-23 06:03:56
End at: 2017-09-23 06:04:26
Local clock offset: -0.866 ms
Remote clock offset: -0.158 ms


# Below is generated by plot.py at 2017-09-23 07:08:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 81.730 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 84.16 Mbit/s
95th percentile per-packet one-way delay: 81.730 ms
Loss rate: 0.66%
```

Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 84.78 Mbit/s)   Flow 1 egress (mean 84.16 Mbit/s)

Flow 1 (95th percentile 81.73 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-23 06:22:48
End at: 2017-09-23 06:23:18
Local clock offset: -1.146 ms
Remote clock offset: -2.539 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.16 Mbit/s
95th percentile per-packet one-way delay: 75.268 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 83.16 Mbit/s
95th percentile per-packet one-way delay: 75.268 ms
Loss rate: 0.36%
```

Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 83.47 Mbit/s) — Flow 1 egress (mean 83.16 Mbit/s)
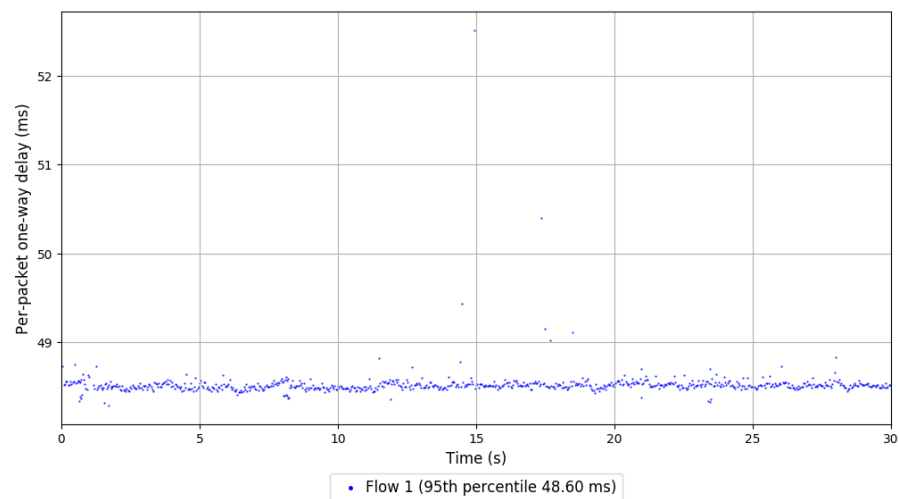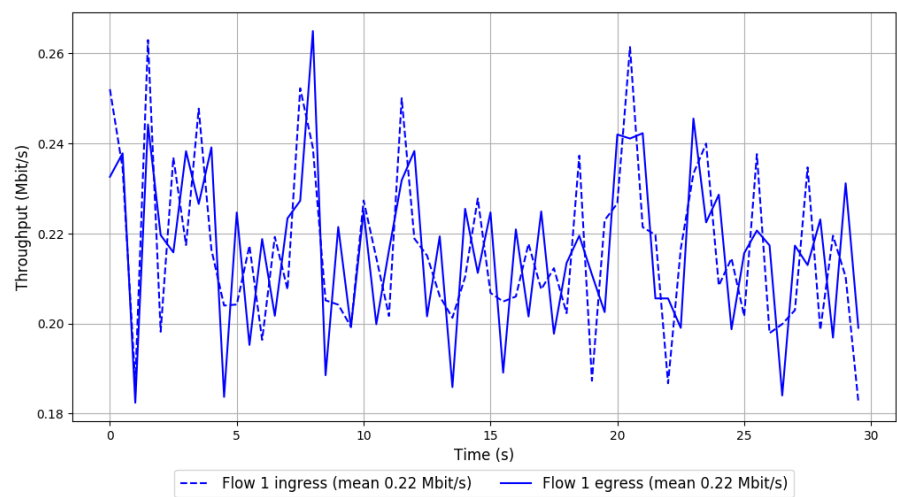

• Flow 1 (95th percentile 75.27 ms)

```
Run 1: Statistics of SCReAM

Start at: 2017-09-23 03:40:54
End at: 2017-09-23 03:41:24
Local clock offset: -2.681 ms
Remote clock offset: -1.226 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.442 ms
Loss rate: 0.00%
```
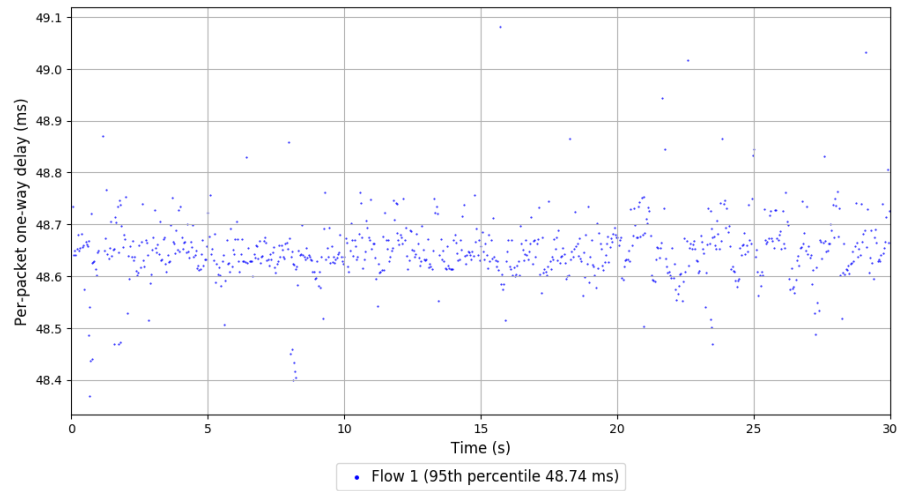
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2017-09-23 03:59:40
End at: 2017-09-23 04:00:10
Local clock offset: -1.512 ms
Remote clock offset: -1.604 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.647 ms
Loss rate: 0.00%
```
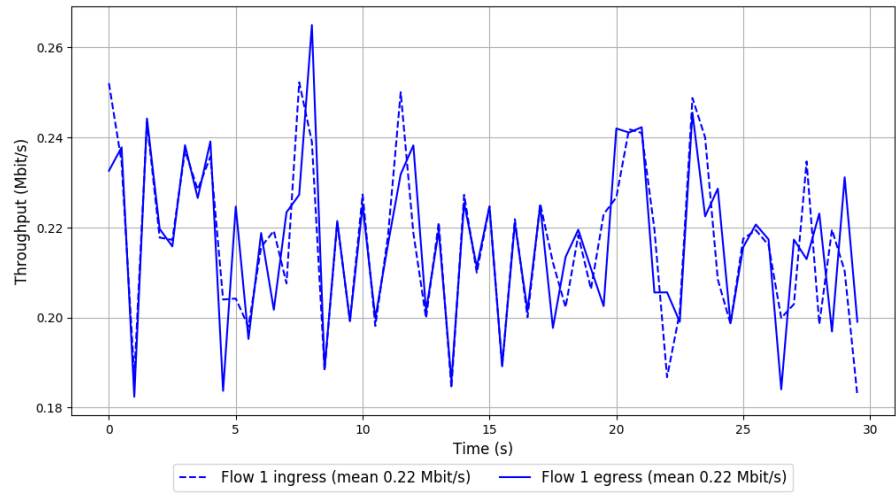
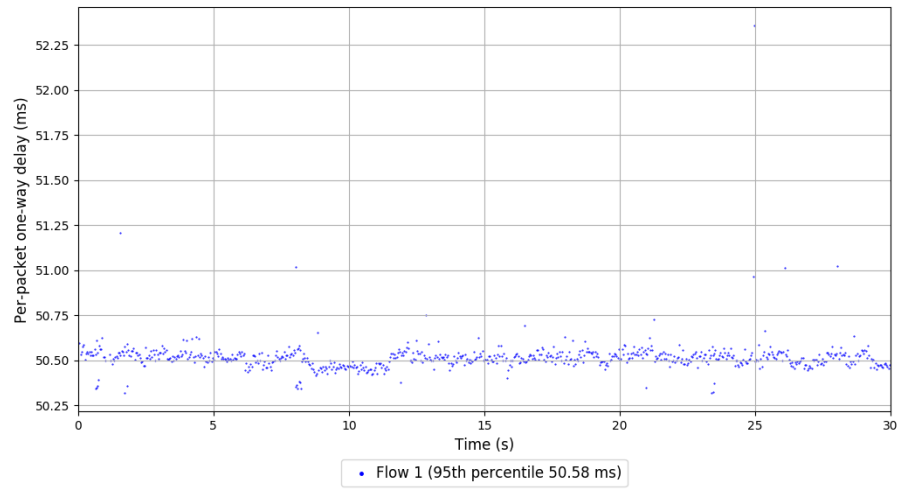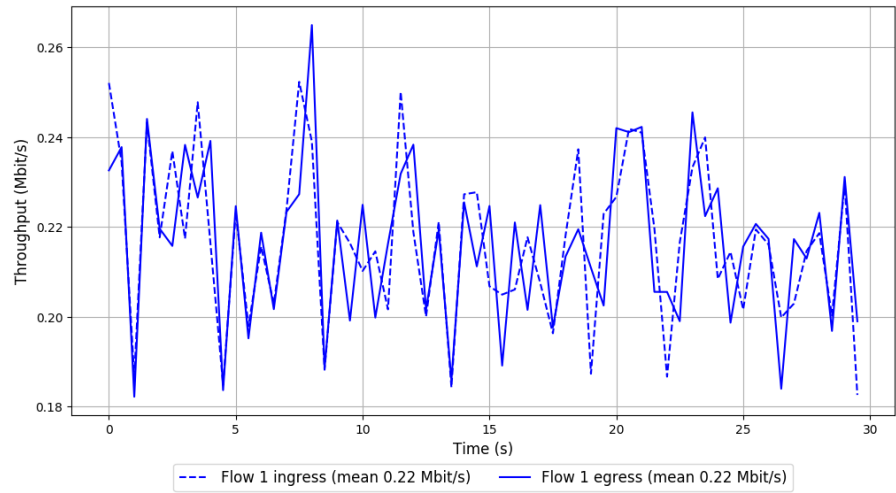Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2017-09-23 04:18:27
End at: 2017-09-23 04:18:57
Local clock offset: -0.998 ms
Remote clock offset: -1.716 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.596 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2017-09-23 04:37:35
End at: 2017-09-23 04:38:05
Local clock offset: -0.825 ms
Remote clock offset: -1.77 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.741 ms
Loss rate: 0.00%
```
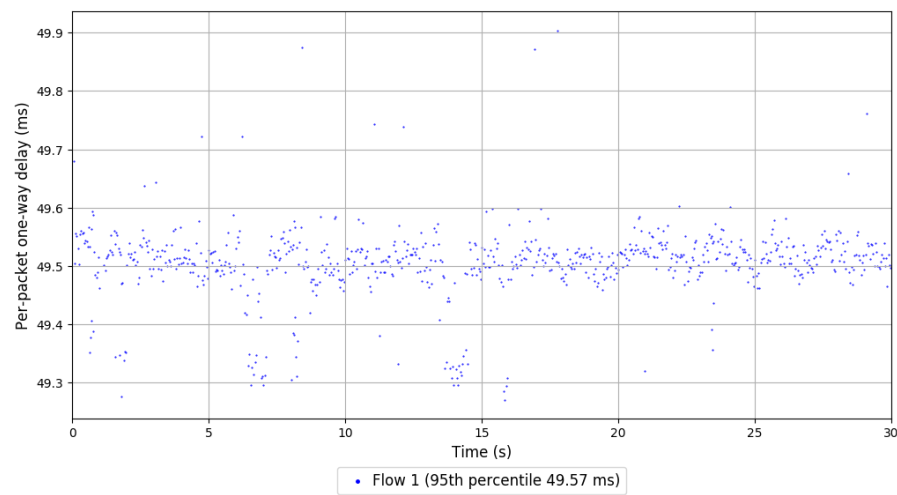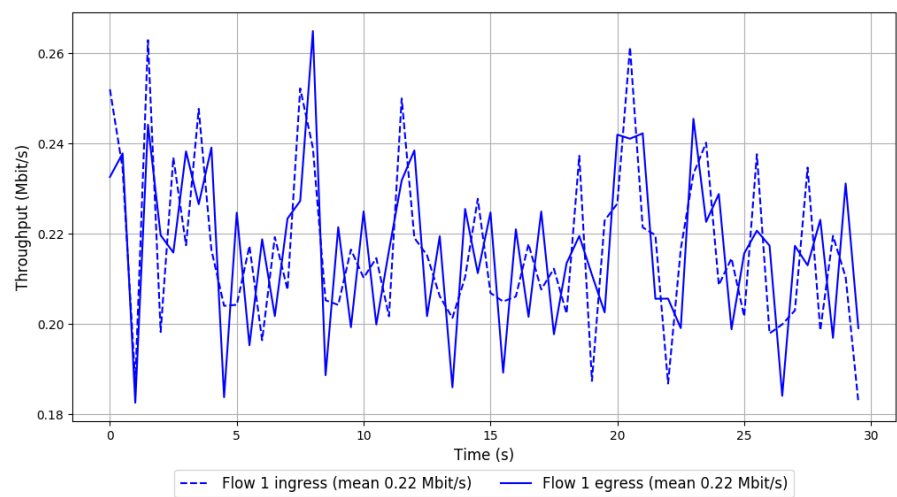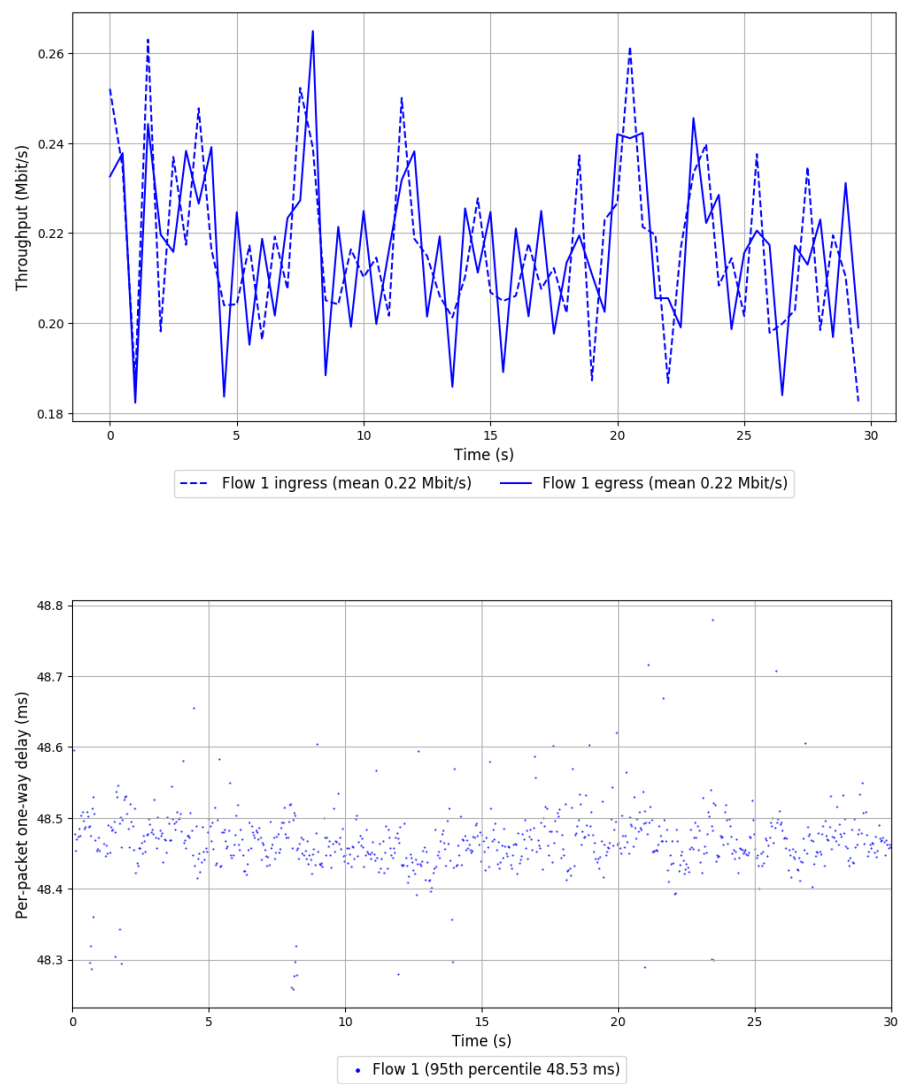
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2017-09-23 04:56:27
End at: 2017-09-23 04:56:57
Local clock offset: -0.984 ms
Remote clock offset: -0.002 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.580 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.580 ms
Loss rate: 0.00%
```
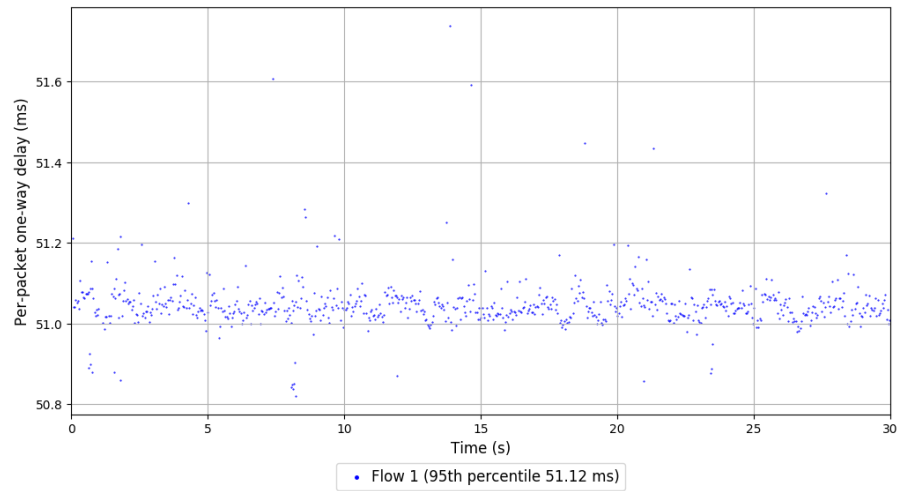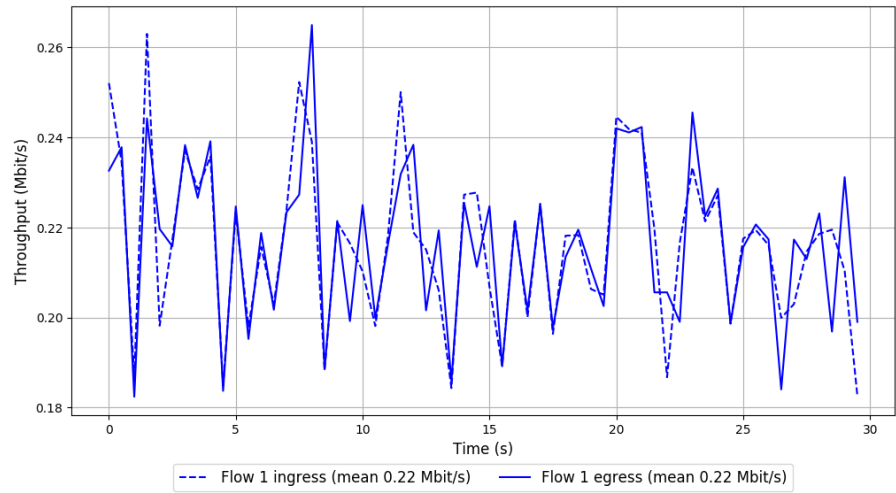
Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2017-09-23 05:15:19
End at: 2017-09-23 05:15:49
Local clock offset: -0.828 ms
Remote clock offset: 0.242 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.569 ms
Loss rate: 0.00%
```

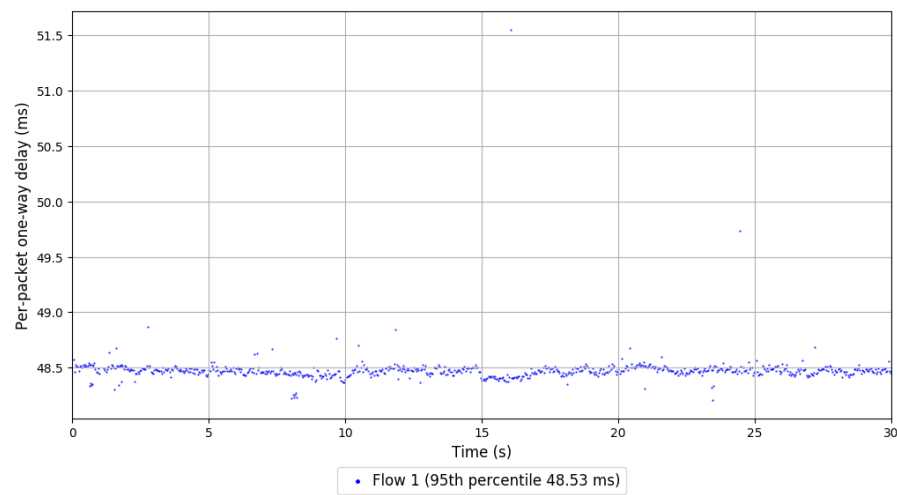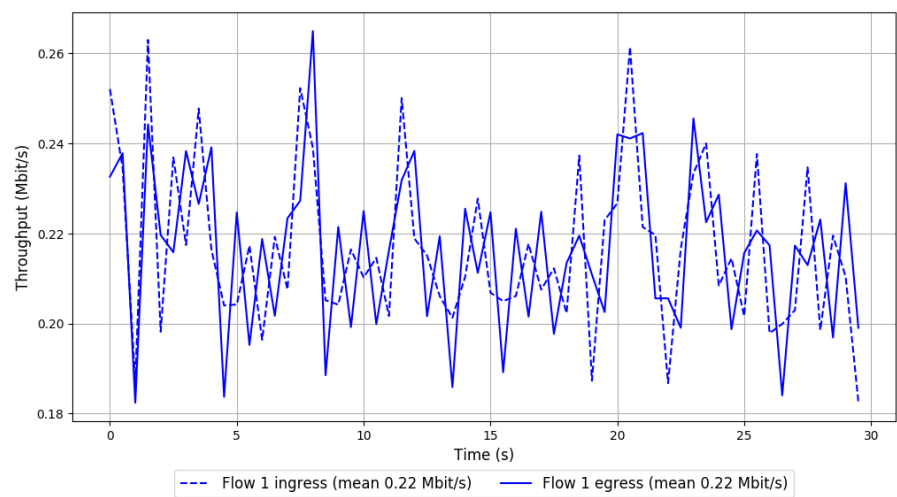Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: 2017-09-23 05:34:13
End at: 2017-09-23 05:34:43
Local clock offset: -0.645 ms
Remote clock offset: -2.703 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.529 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

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```
Run 8: Statistics of SCReAM

Start at: 2017-09-23 05:53:12
End at: 2017-09-23 05:53:42
Local clock offset: -1.004 ms
Remote clock offset: -0.003 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.120 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.120 ms
Loss rate: 0.00%
```
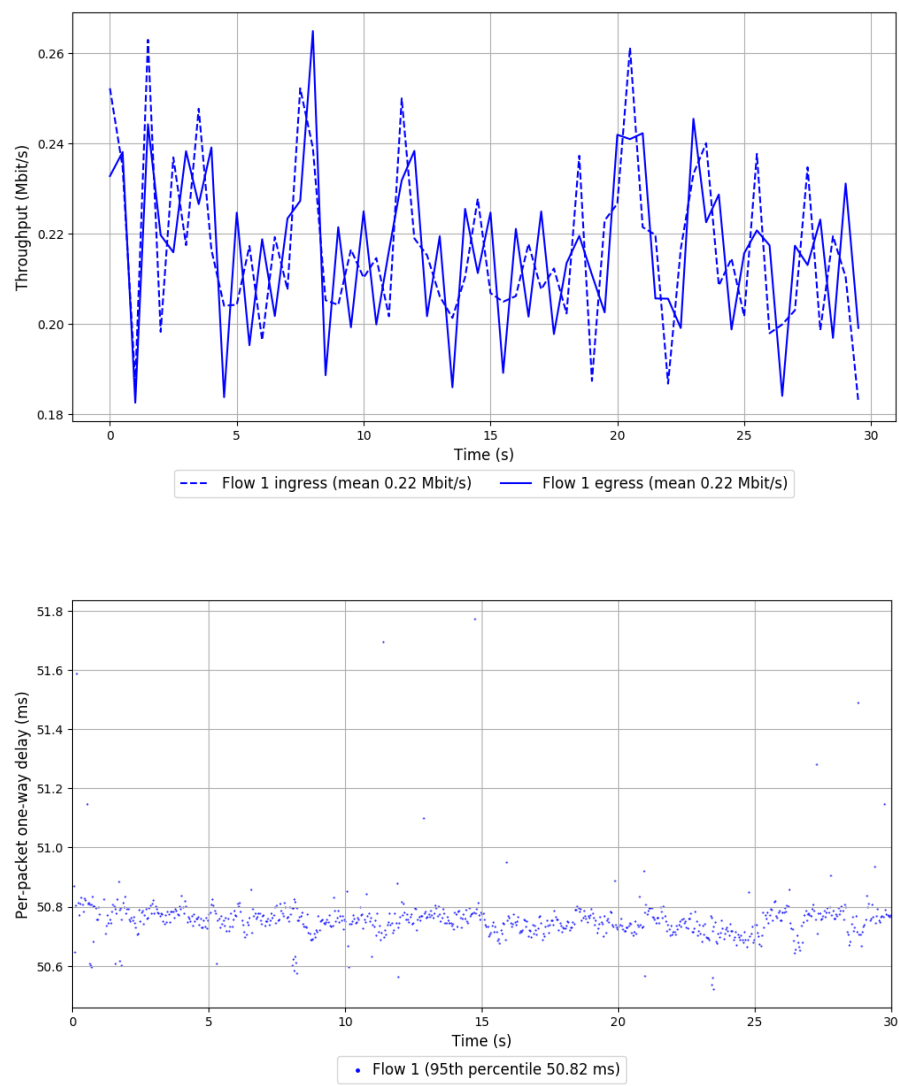
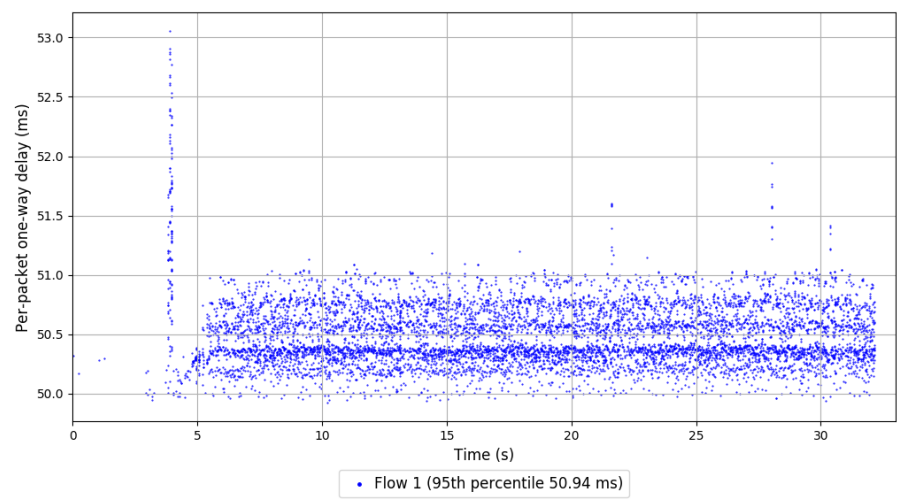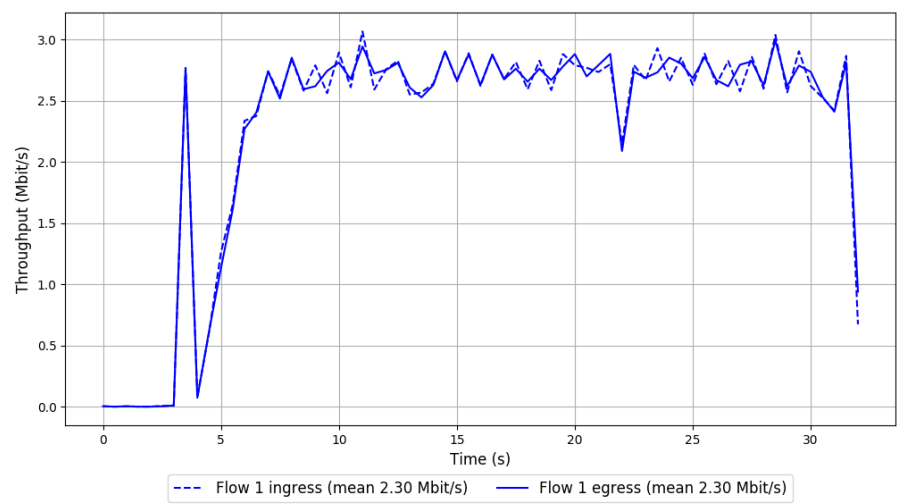Run 8: Report of SCReAM — Data Link

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```
Run 9: Statistics of SCReAM

Start at: 2017-09-23 06:12:04
End at: 2017-09-23 06:12:34
Local clock offset: -0.826 ms
Remote clock offset: -2.603 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.529 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 48.53 ms)

```
Run 10: Statistics of SCReAM

Start at: 2017-09-23 06:30:53
End at: 2017-09-23 06:31:23
Local clock offset: -1.114 ms
Remote clock offset: 0.139 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.817 ms
Loss rate: 0.00%
```
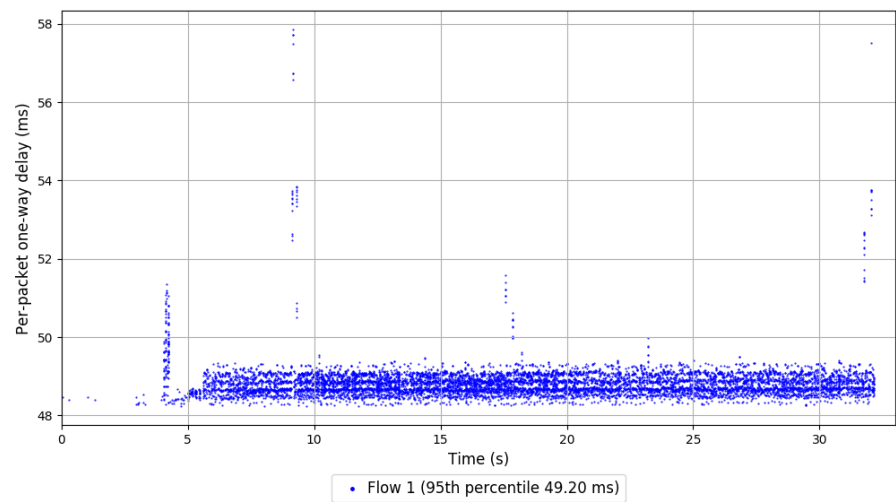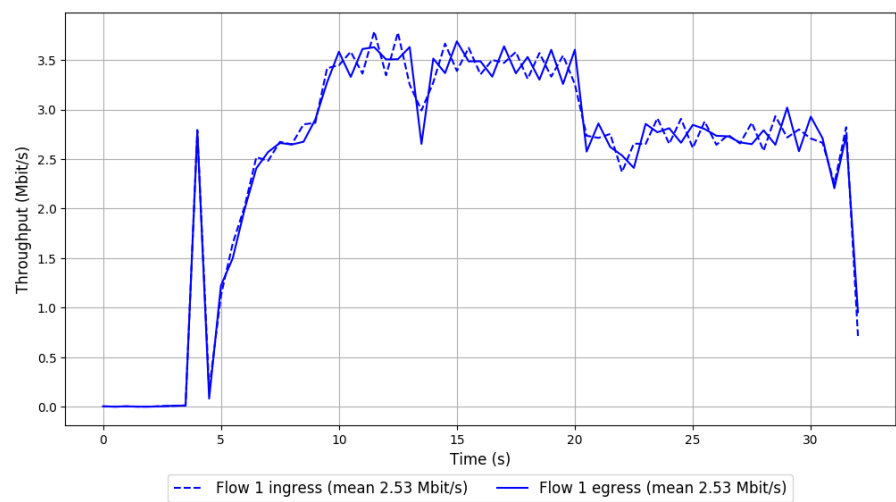
Run 10: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 50.82 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2017-09-23 03:39:37
End at: 2017-09-23 03:40:07
Local clock offset: -2.68 ms
Remote clock offset: 0.754 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 50.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 50.935 ms
Loss rate: 0.00%
```
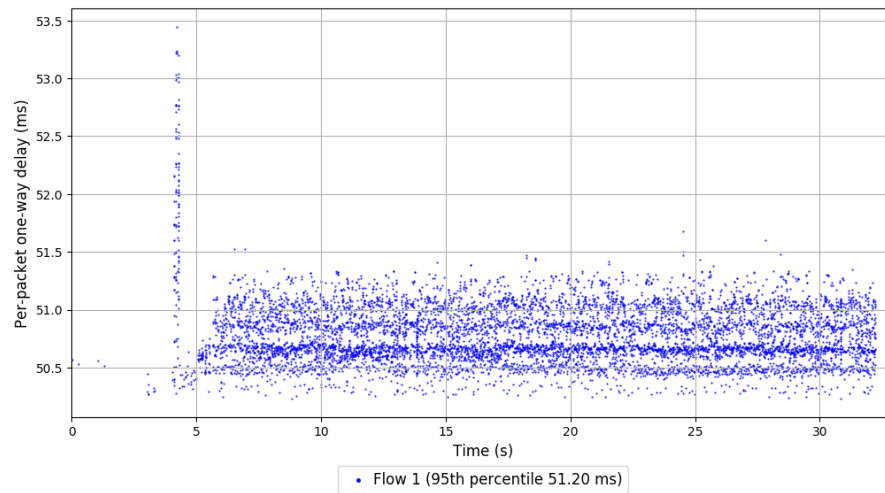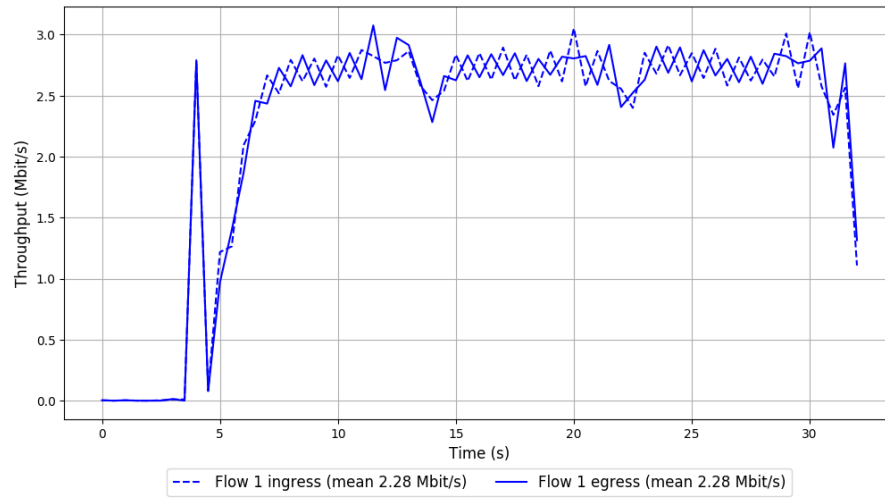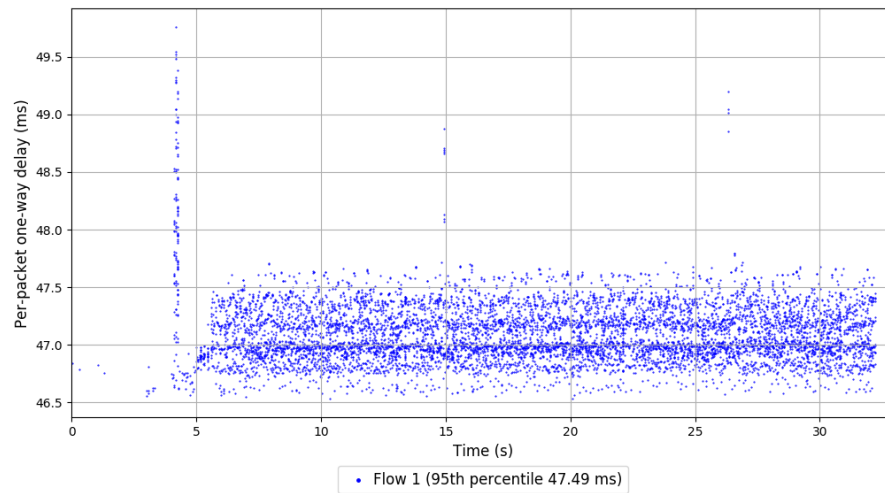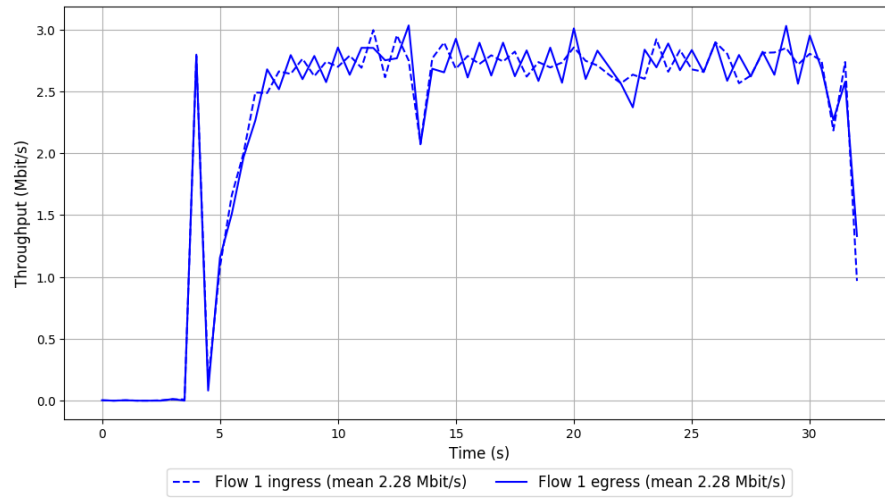
Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.30 Mbit/s) —— Flow 1 egress (mean 2.30 Mbit/s)

• Flow 1 (95th percentile 50.94 ms)

125

```
Run 2: Statistics of WebRTC media

Start at: 2017-09-23 03:58:23
End at: 2017-09-23 03:58:53
Local clock offset: -1.676 ms
Remote clock offset: -1.59 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 49.200 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 49.200 ms
Loss rate: 0.08%
```

Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2017-09-23 04:17:11
End at: 2017-09-23 04:17:41
Local clock offset: -0.895 ms
Remote clock offset: 0.495 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.196 ms
Loss rate: 0.00%
```
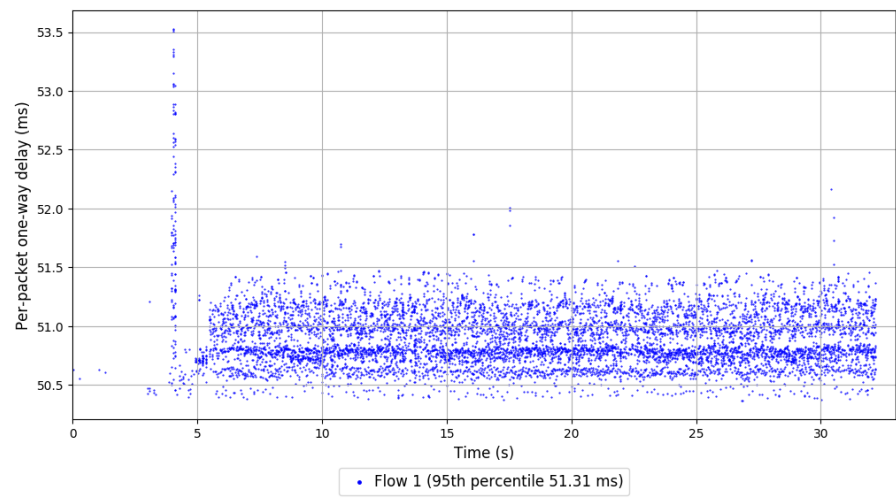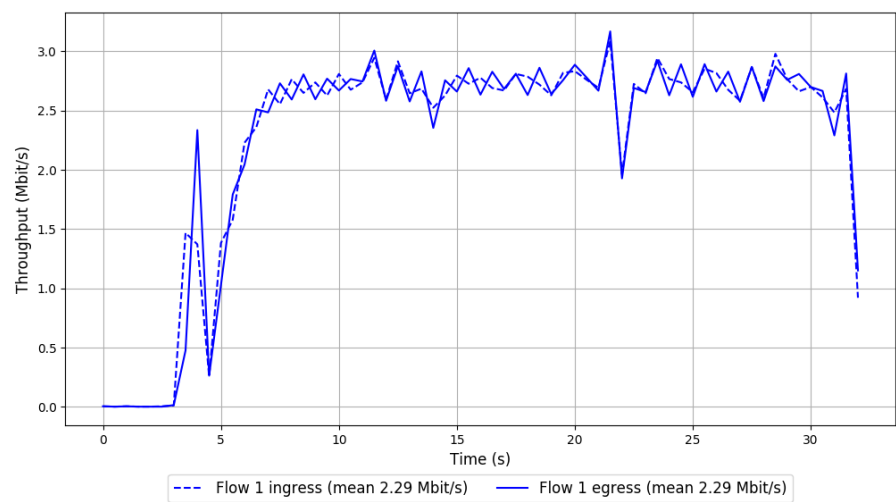
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2017-09-23 04:36:19
End at: 2017-09-23 04:36:49
Local clock offset: -0.858 ms
Remote clock offset: -1.802 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 47.493 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 47.493 ms
Loss rate: 0.00%
```
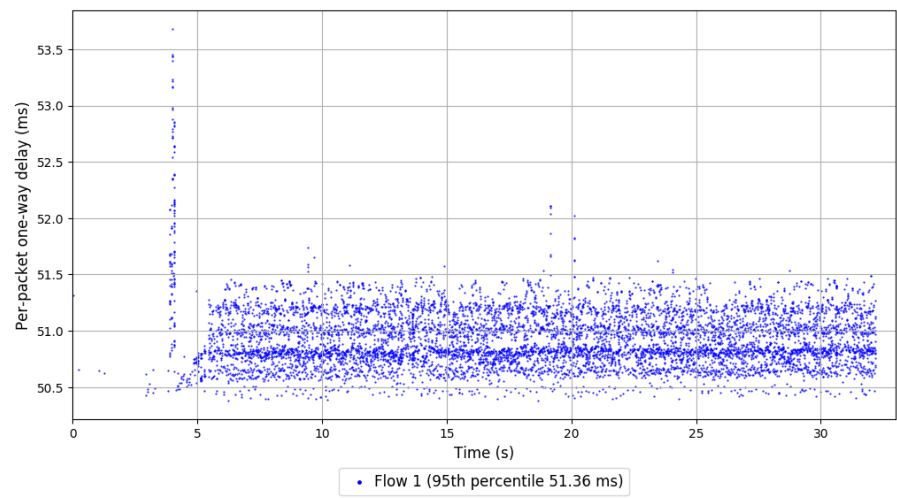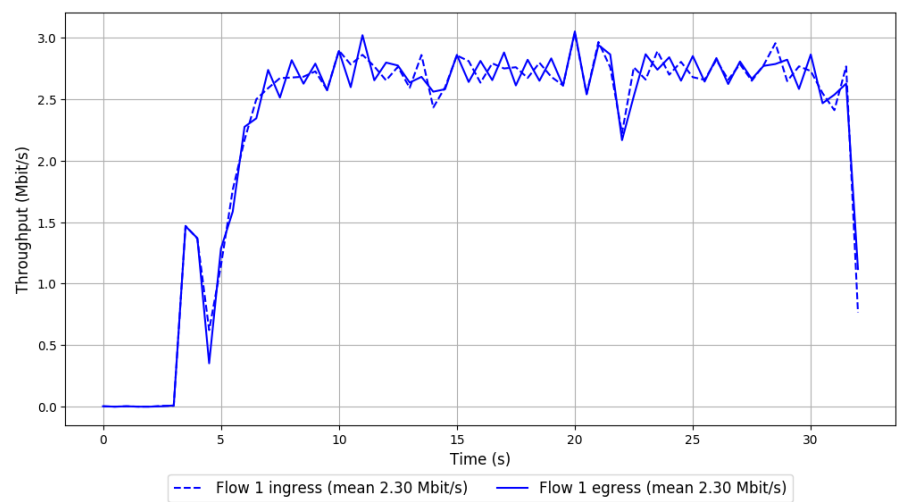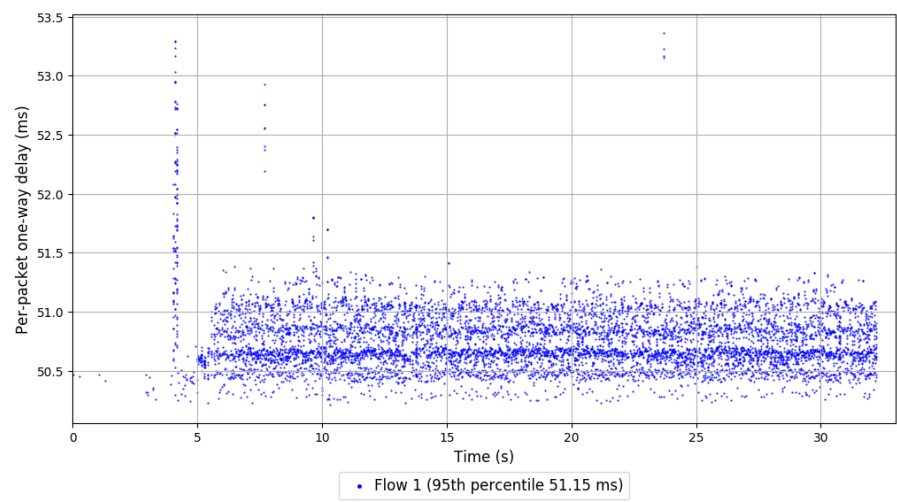
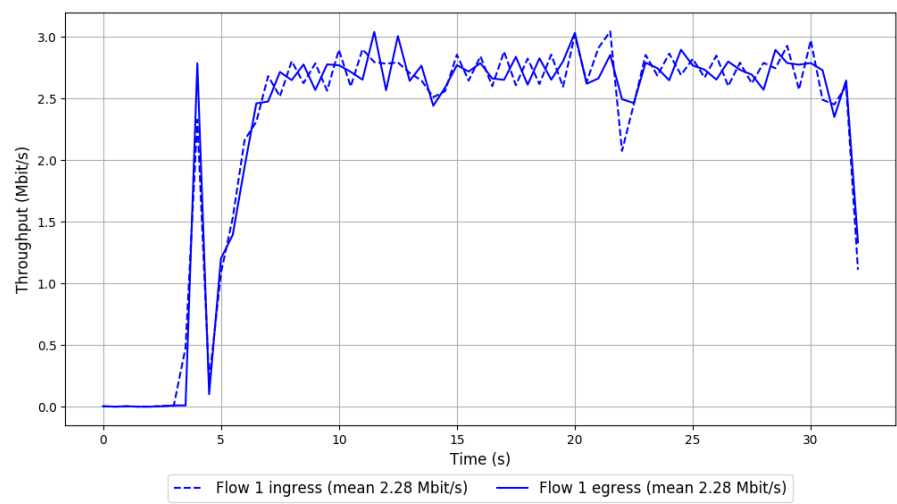Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2017-09-23 04:55:11
End at: 2017-09-23 04:55:41
Local clock offset: -0.902 ms
Remote clock offset: 0.321 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 51.307 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 51.307 ms
Loss rate: 0.00%
```
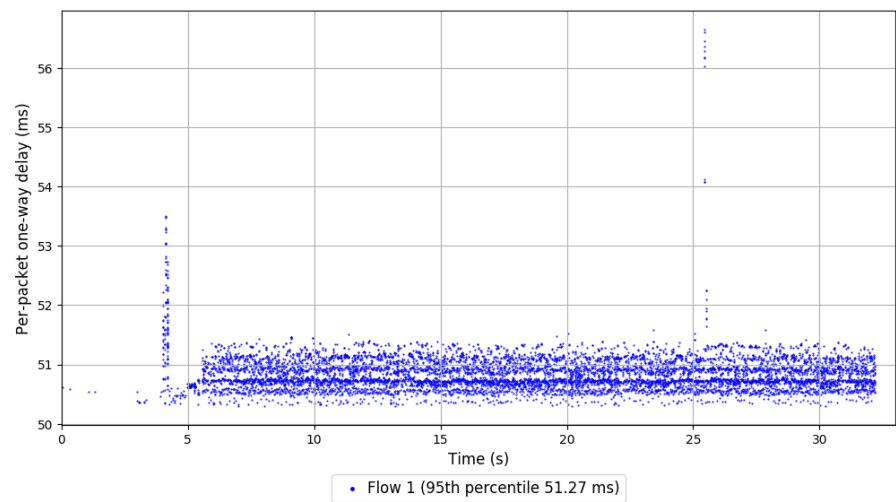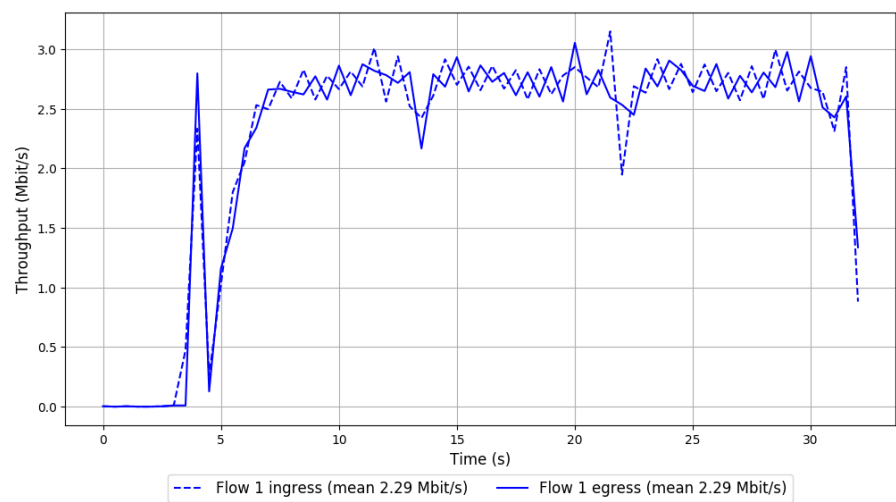
Run 5: Report of WebRTC media — Data Link

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

Flow 1 (95th percentile 51.31 ms)

```
Run 6: Statistics of WebRTC media

Start at: 2017-09-23 05:14:02
End at: 2017-09-23 05:14:32
Local clock offset: -0.749 ms
Remote clock offset: 0.194 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 51.358 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 51.358 ms
Loss rate: 0.00%
```
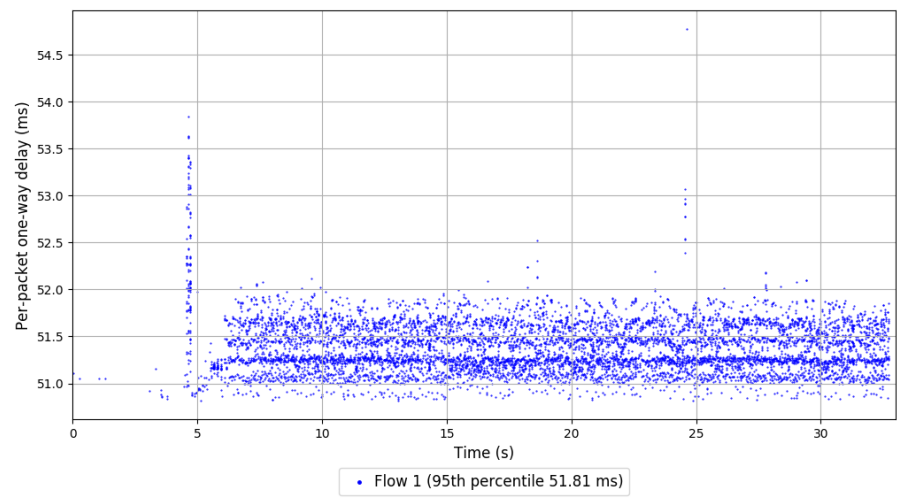
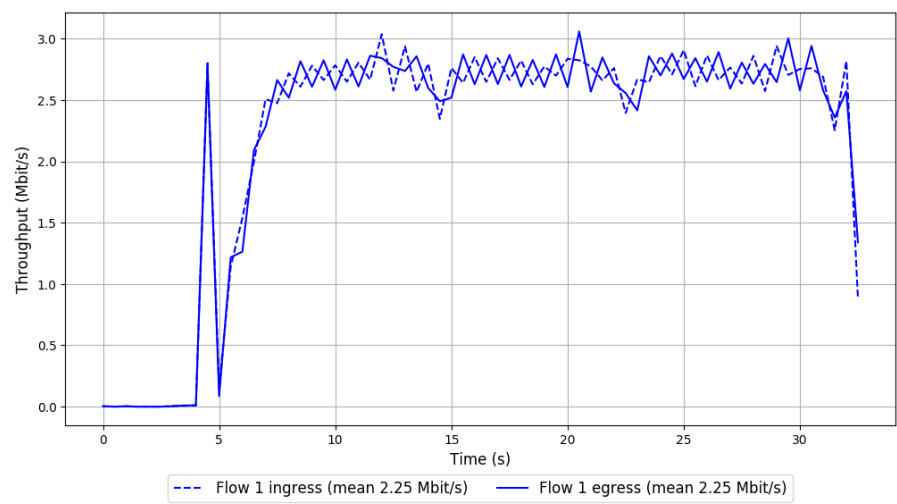Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2017-09-23 05:32:56
End at: 2017-09-23 05:33:26
Local clock offset: -0.623 ms
Remote clock offset: -0.537 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.154 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.154 ms
Loss rate: 0.00%
```

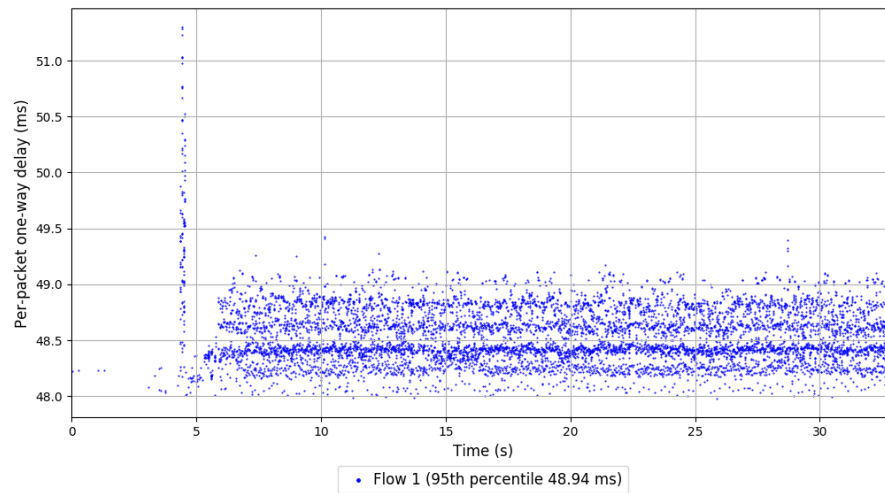Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2017-09-23 05:51:55
End at: 2017-09-23 05:52:25
Local clock offset: -0.973 ms
Remote clock offset: -0.582 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 51.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 51.273 ms
Loss rate: 0.00%
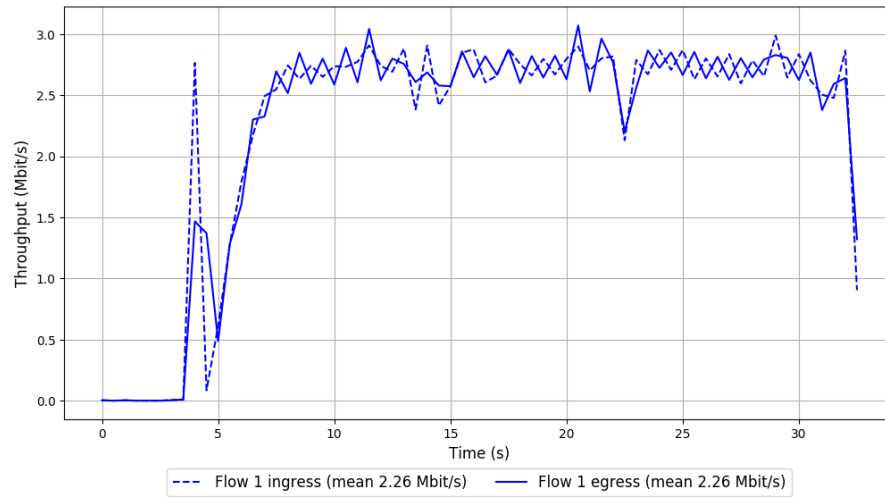```

Run 8: Report of WebRTC media — Data Link



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



Flow 1 (95th percentile 51.27 ms)

```
Run 9: Statistics of WebRTC media

Start at: 2017-09-23 06:10:48
End at: 2017-09-23 06:11:18
Local clock offset: -0.936 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2017-09-23 07:08:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 51.813 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 51.813 ms
Loss rate: 0.01%
```
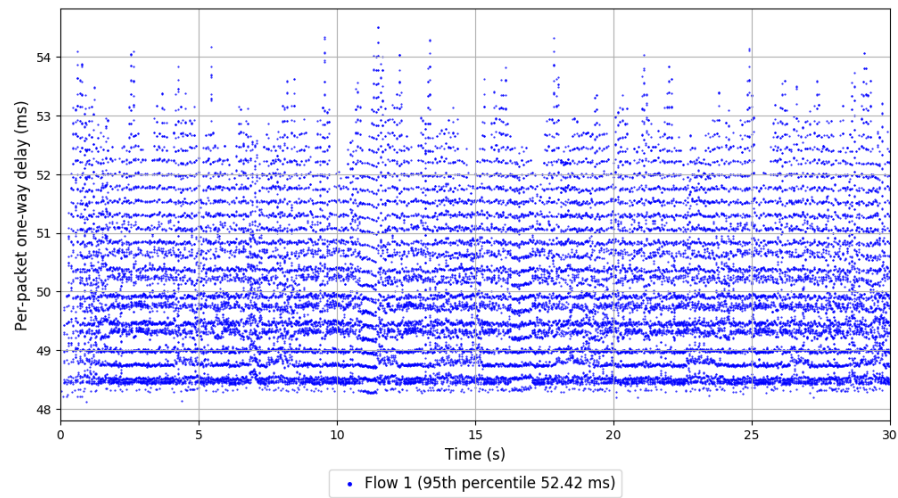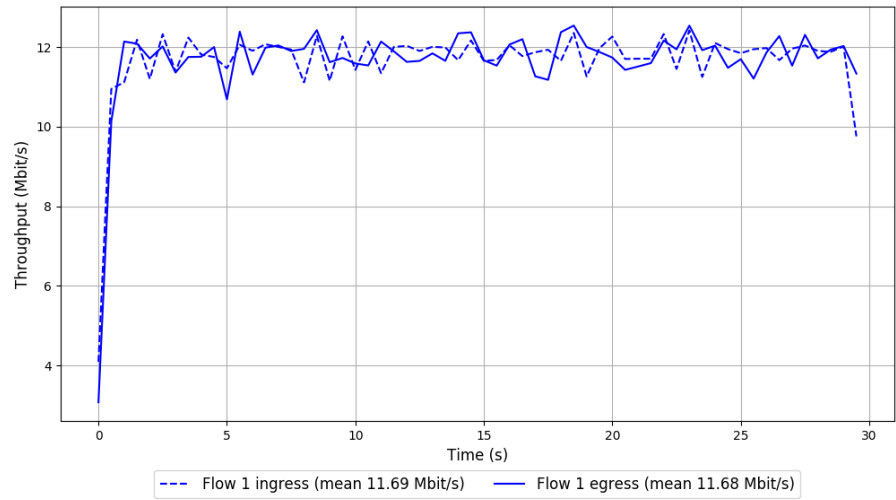
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2017-09-23 06:29:36
End at: 2017-09-23 06:30:06
Local clock offset: -1.234 ms
Remote clock offset: -2.374 ms

Below is generated by plot.py at 2017-09-23 07:08:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 48.942 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 48.942 ms
Loss rate: 0.01%
```
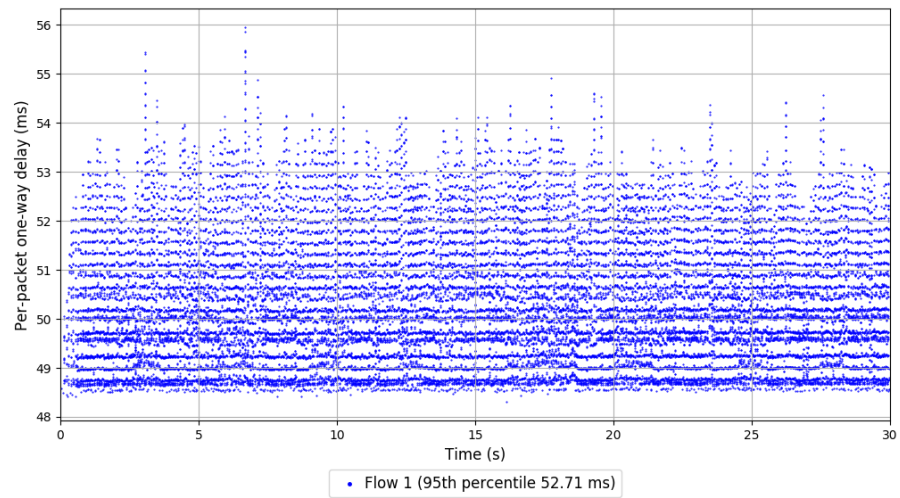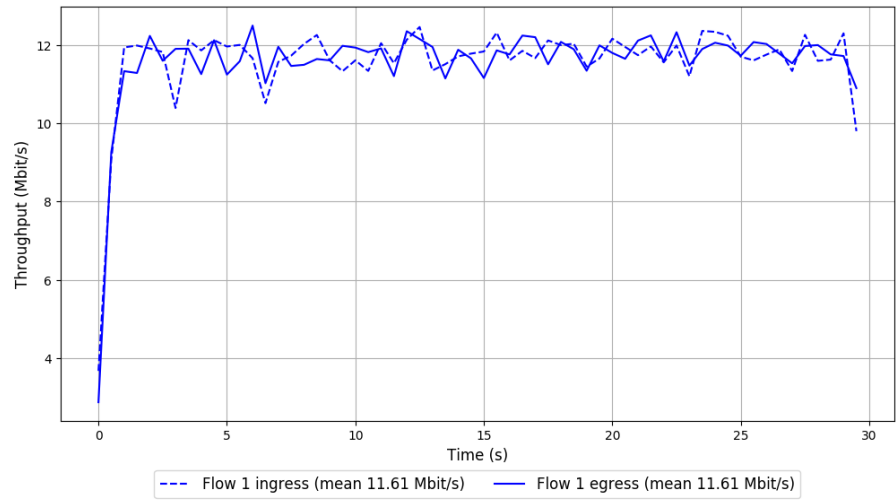
Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2017-09-23 03:43:31
End at: 2017-09-23 03:44:01
Local clock offset: -2.822 ms
Remote clock offset: -1.33 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 52.421 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 11.68 Mbit/s
95th percentile per-packet one-way delay: 52.421 ms
Loss rate: 0.06%
```

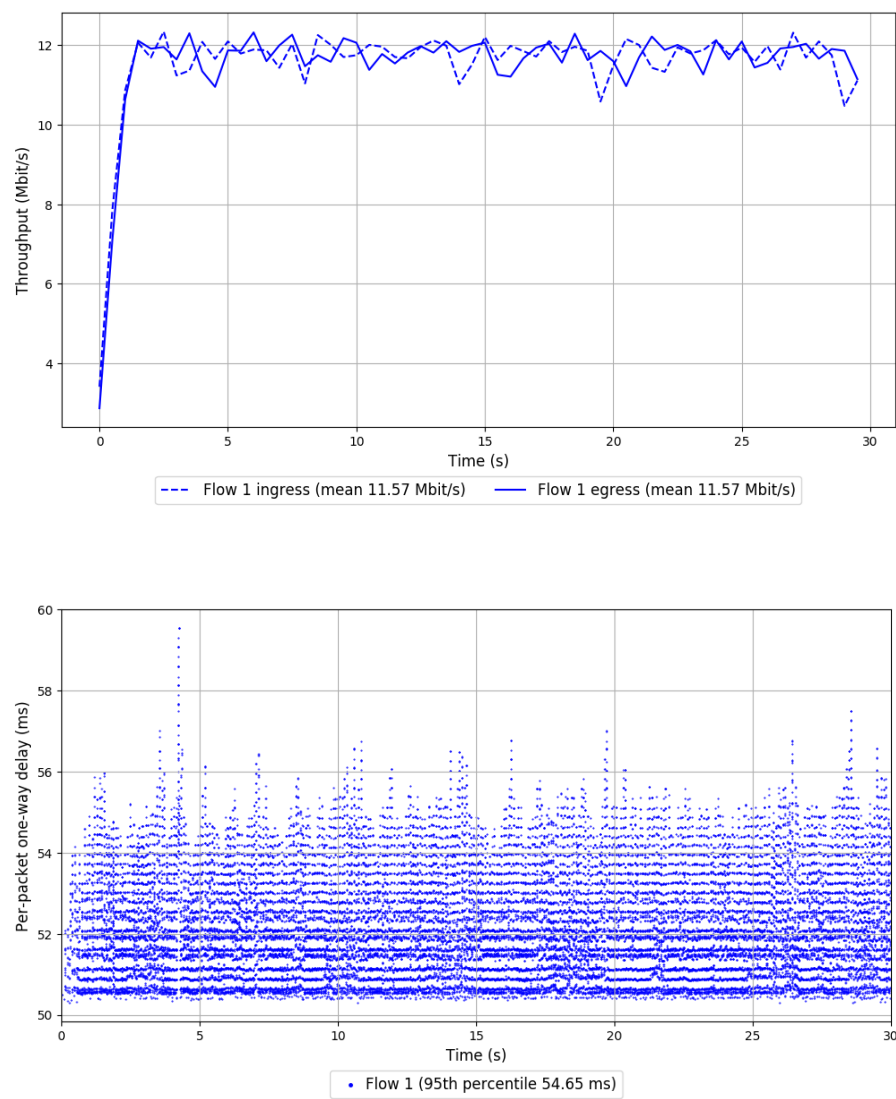Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2017-09-23 04:02:18
End at: 2017-09-23 04:02:48
Local clock offset: -1.416 ms
Remote clock offset: -1.56 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 52.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.61 Mbit/s
95th percentile per-packet one-way delay: 52.713 ms
Loss rate: 0.00%
```
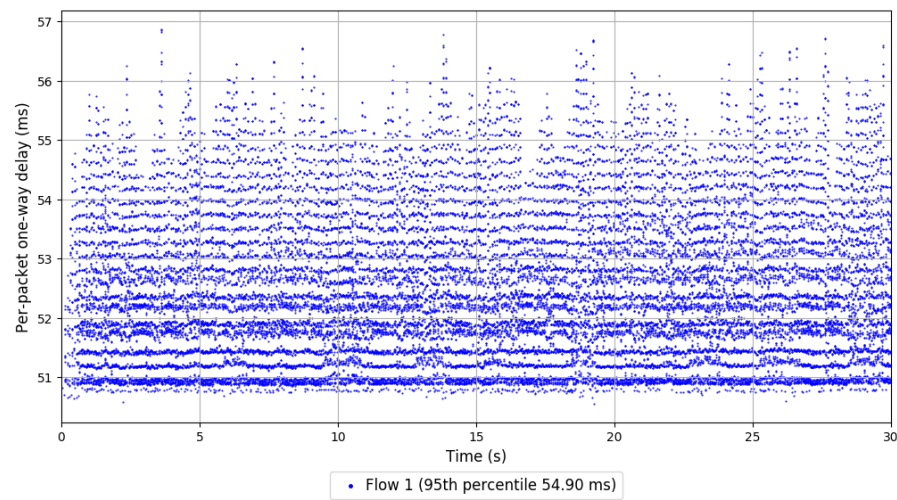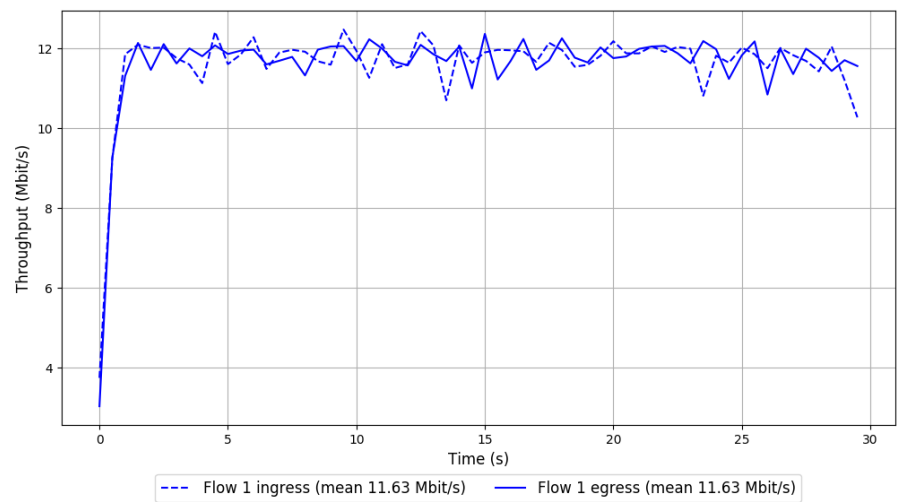
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2017-09-23 04:21:04
End at: 2017-09-23 04:21:34
Local clock offset: -0.954 ms
Remote clock offset: 0.417 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 54.646 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.57 Mbit/s
95th percentile per-packet one-way delay: 54.646 ms
Loss rate: 0.00%
```
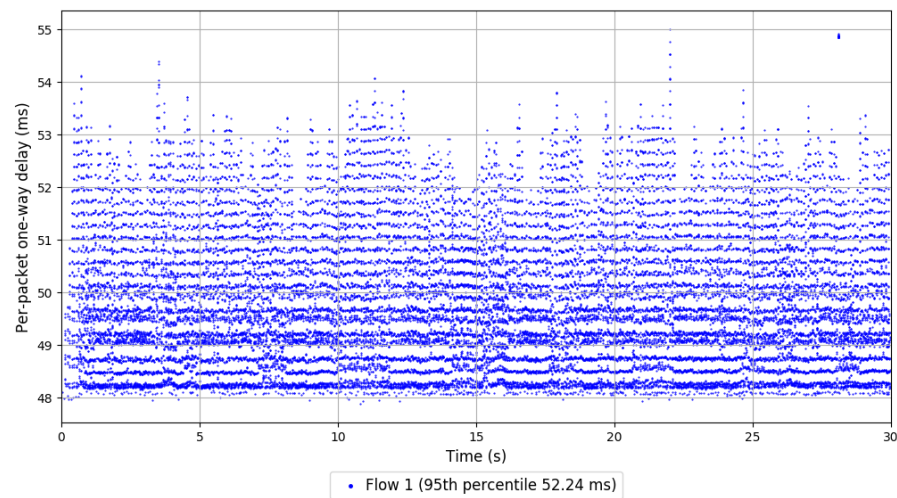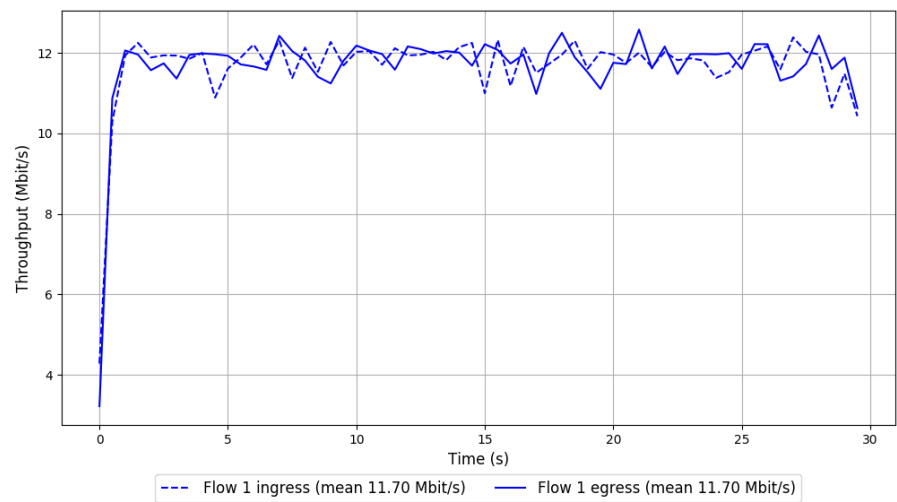
Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 11.57 Mbit/s)   Flow 1 egress (mean 11.57 Mbit/s)

Flow 1 (95th percentile 54.65 ms)

```
Run 4: Statistics of Sprout

Start at: 2017-09-23 04:40:14
End at: 2017-09-23 04:40:44
Local clock offset: -0.71 ms
Remote clock offset: 0.732 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 54.895 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 54.895 ms
Loss rate: 0.00%
```

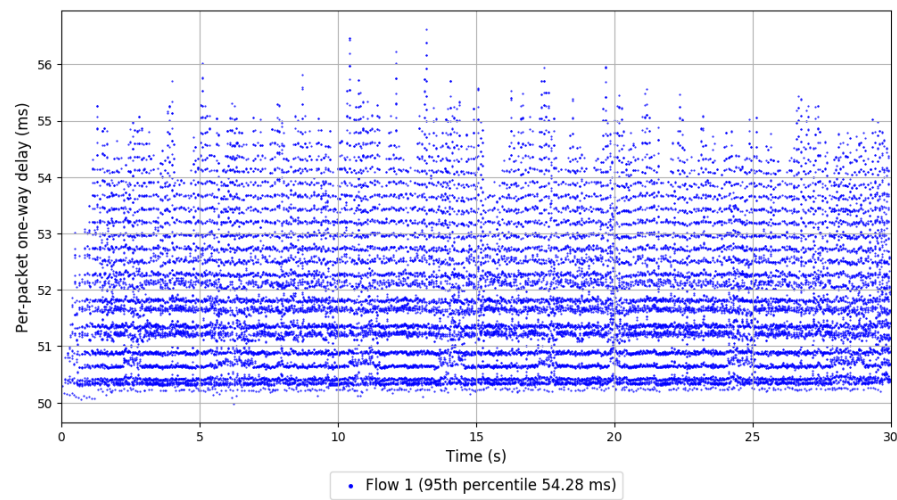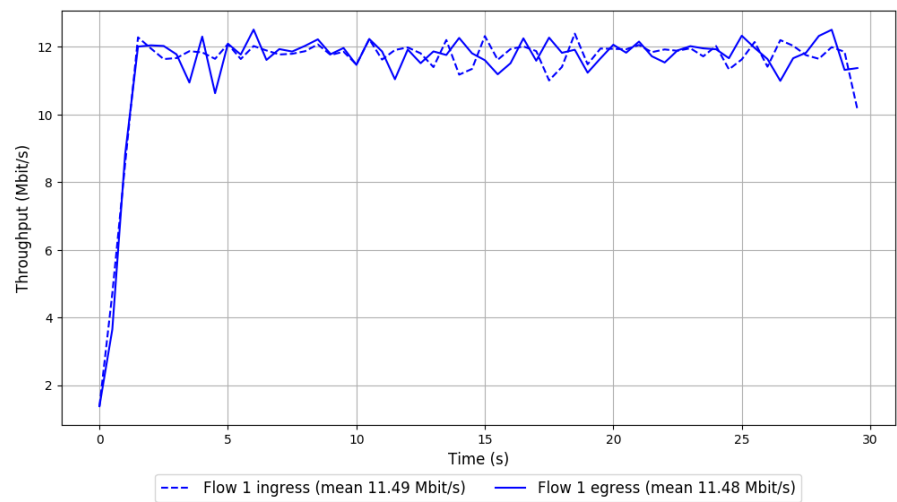Run 4: Report of Sprout — Data Link

Flow 1 ingress (mean 11.63 Mbit/s) --- Flow 1 egress (mean 11.63 Mbit/s)

• Flow 1 (95th percentile 54.90 ms)

```
Run 5: Statistics of Sprout

Start at: 2017-09-23 04:59:05
End at: 2017-09-23 04:59:35
Local clock offset: -0.881 ms
Remote clock offset: -2.23 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 52.240 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 52.240 ms
Loss rate: 0.00%
```

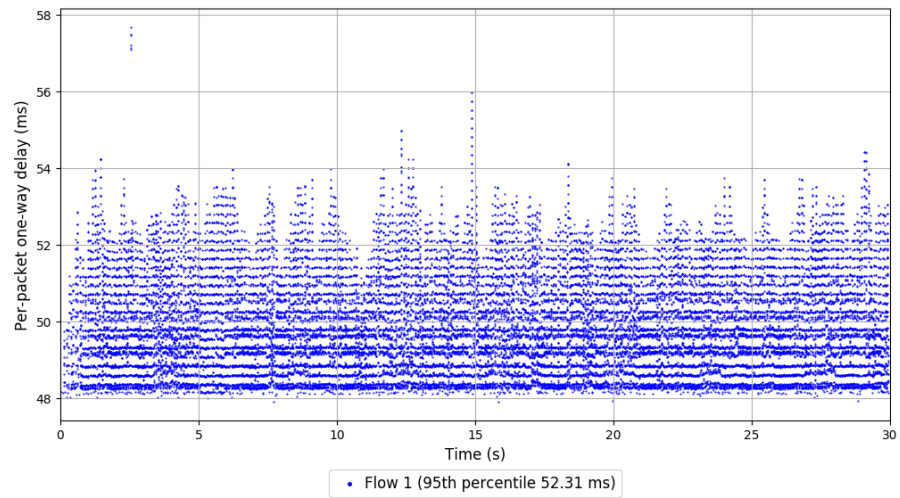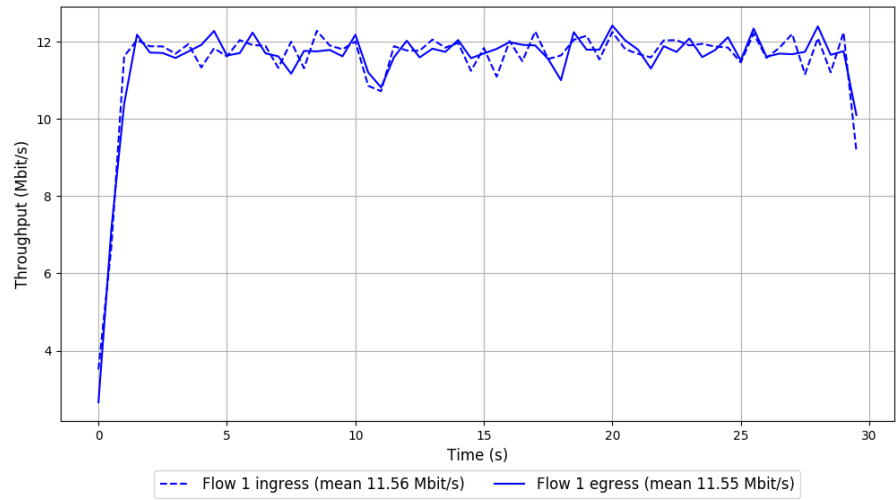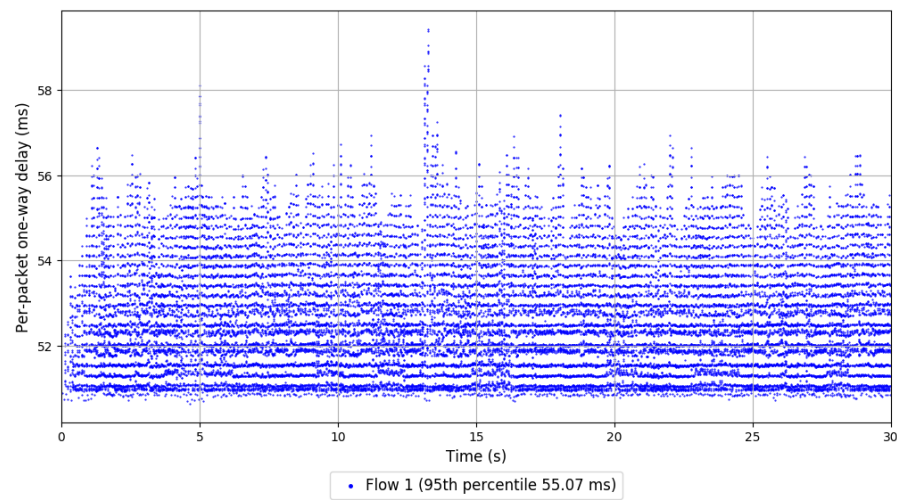Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 11.70 Mbit/s)   Flow 1 egress (mean 11.70 Mbit/s)

• Flow 1 (95th percentile 52.24 ms)

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```
Run 6: Statistics of Sprout

Start at: 2017-09-23 05:17:57
End at: 2017-09-23 05:18:27
Local clock offset: -0.735 ms
Remote clock offset: -0.341 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 54.281 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.48 Mbit/s
95th percentile per-packet one-way delay: 54.281 ms
Loss rate: 0.00%
```

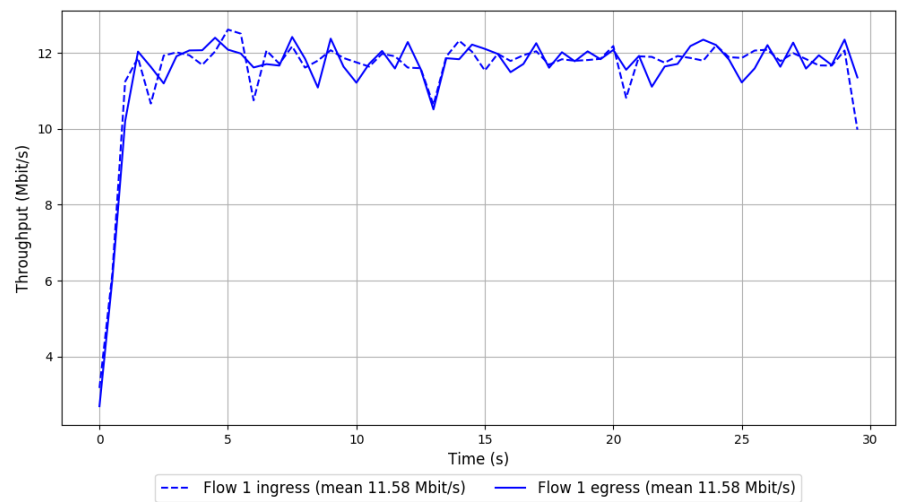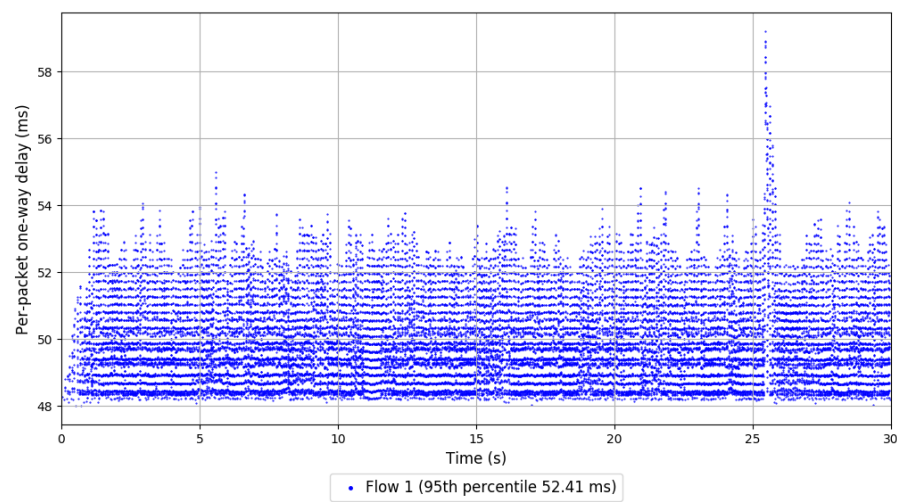Run 6: Report of Sprout — Data Link

Flow 1 ingress (mean 11.49 Mbit/s) --- Flow 1 egress (mean 11.48 Mbit/s)

Flow 1 (95th percentile 54.28 ms)

```
Run 7: Statistics of Sprout

Start at: 2017-09-23 05:36:52
End at: 2017-09-23 05:37:22
Local clock offset: -0.624 ms
Remote clock offset: -2.685 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 52.309 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 11.55 Mbit/s
95th percentile per-packet one-way delay: 52.309 ms
Loss rate: 0.08%
```

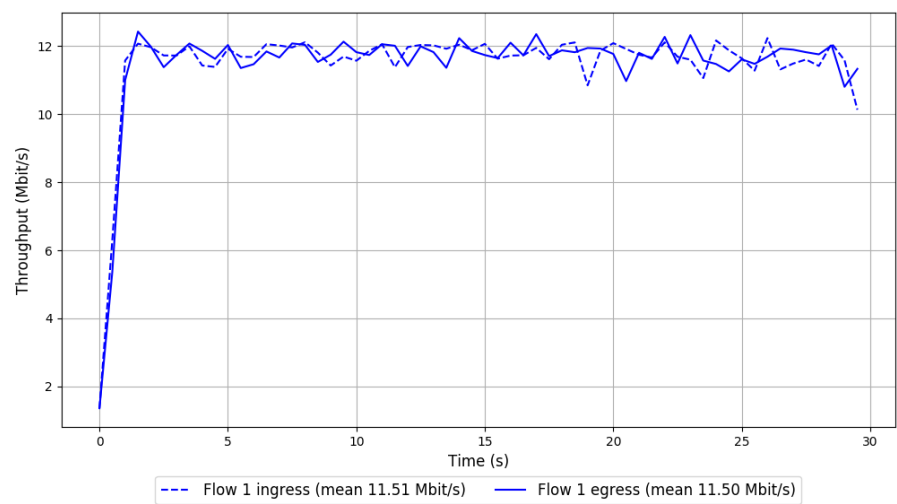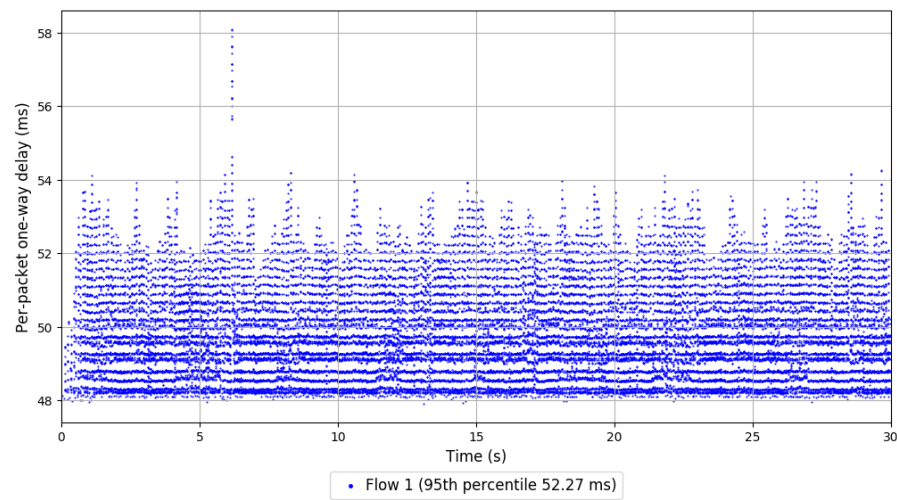Run 7: Report of Sprout — Data Link

Flow 1 ingress (mean 11.56 Mbit/s)   Flow 1 egress (mean 11.55 Mbit/s)

Flow 1 (95th percentile 52.31 ms)

```
Run 8: Statistics of Sprout

Start at: 2017-09-23 05:55:51
End at: 2017-09-23 05:56:21
Local clock offset: -1.018 ms
Remote clock offset: -0.093 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 55.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 55.071 ms
Loss rate: 0.00%
```

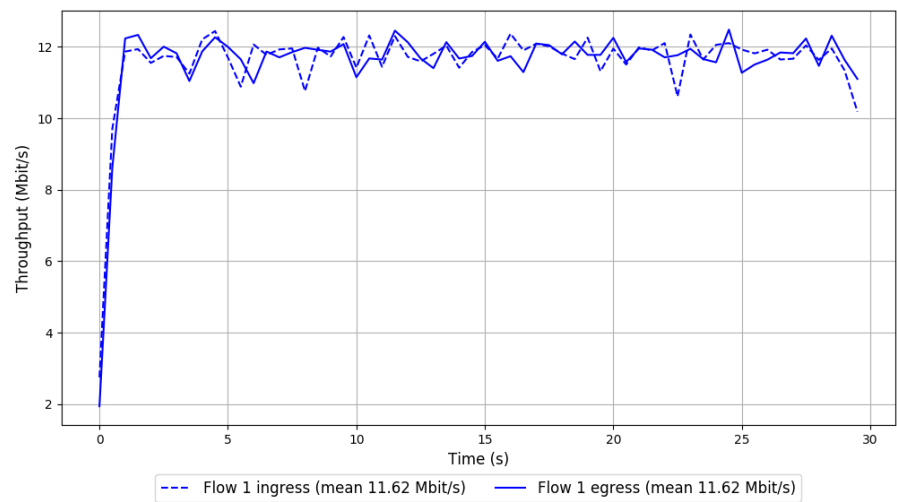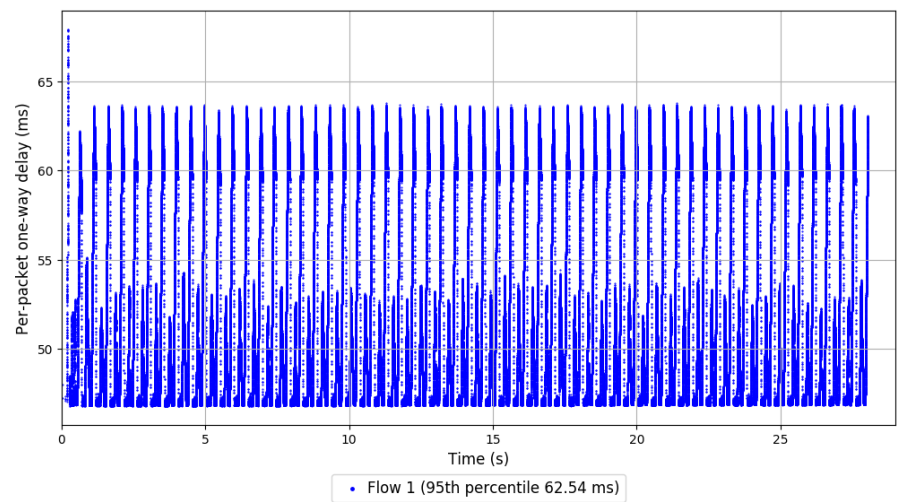Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2017-09-23 06:14:42
End at: 2017-09-23 06:15:12
Local clock offset: -0.788 ms
Remote clock offset: -2.459 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 52.412 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 11.50 Mbit/s
95th percentile per-packet one-way delay: 52.412 ms
Loss rate: 0.02%
```

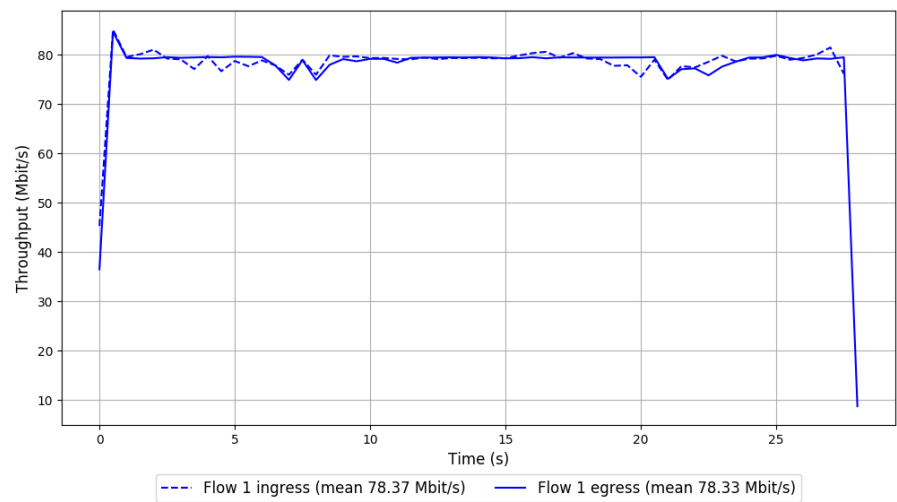Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 11.51 Mbit/s) --- Flow 1 egress (mean 11.50 Mbit/s)

• Flow 1 (95th percentile 52.41 ms)

```
Run 10: Statistics of Sprout

Start at: 2017-09-23 06:33:31
End at: 2017-09-23 06:34:01
Local clock offset: -1.129 ms
Remote clock offset: -2.403 ms


# Below is generated by plot.py at 2017-09-23 07:08:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 52.272 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 52.272 ms
Loss rate: 0.02%
```
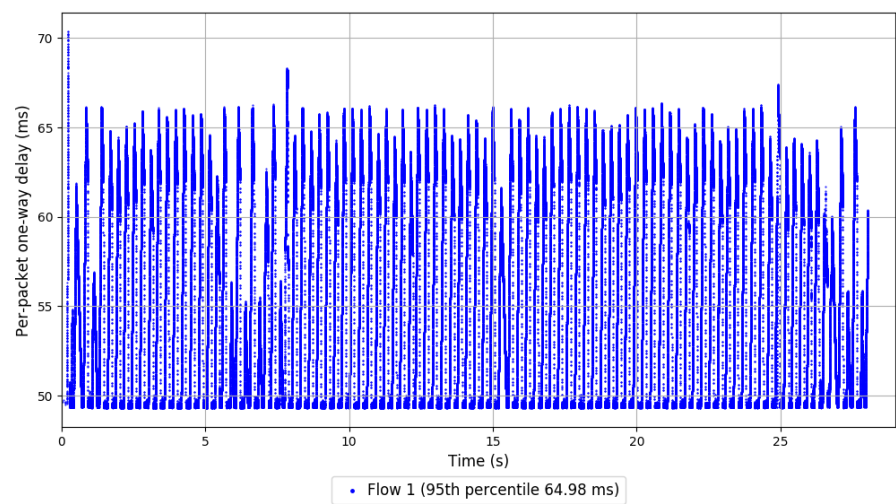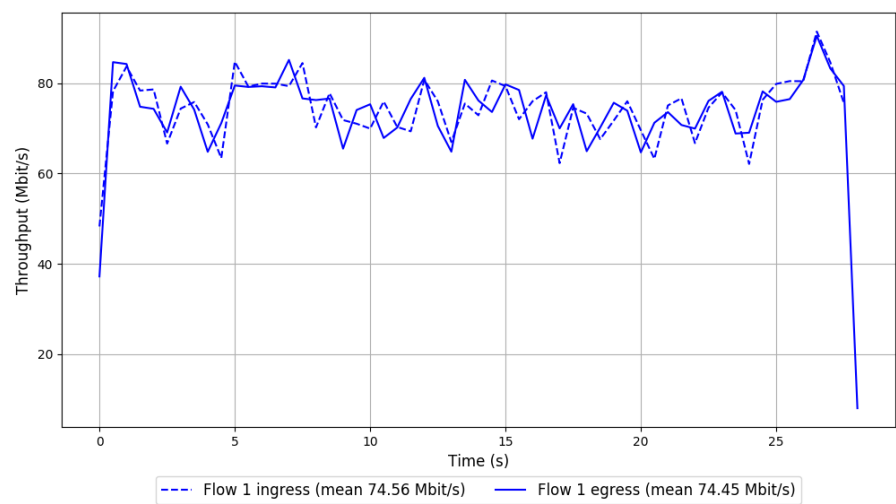
Run 10: Report of Sprout — Data Link

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

Start at: 2017-09-23 03:46:11
End at: 2017-09-23 03:46:41
Local clock offset: -2.781 ms
Remote clock offset: -1.434 ms

# Below is generated by plot.py at 2017-09-23 07:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.33 Mbit/s
95th percentile per-packet one-way delay: 62.543 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.33 Mbit/s
95th percentile per-packet one-way delay: 62.543 ms
Loss rate: 0.00%
```
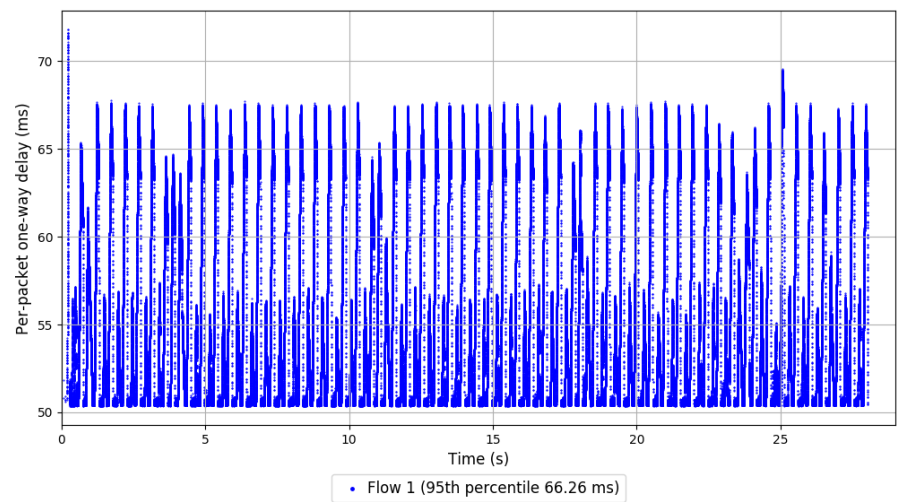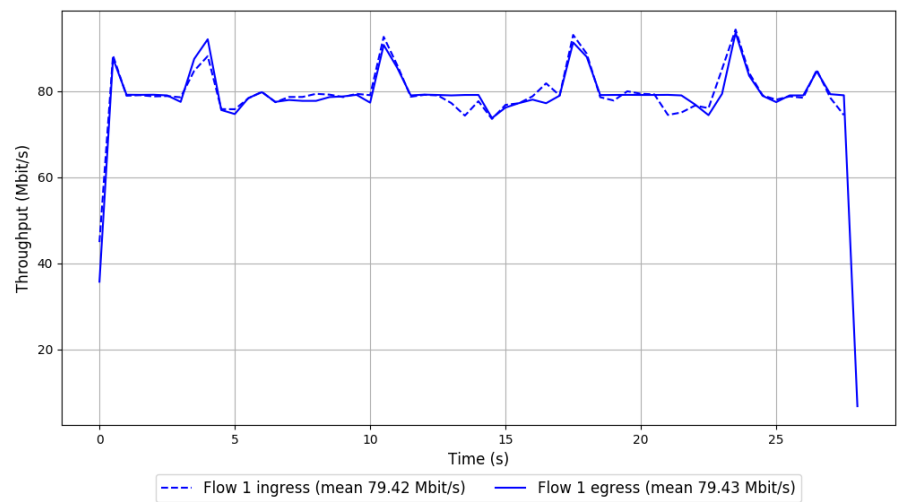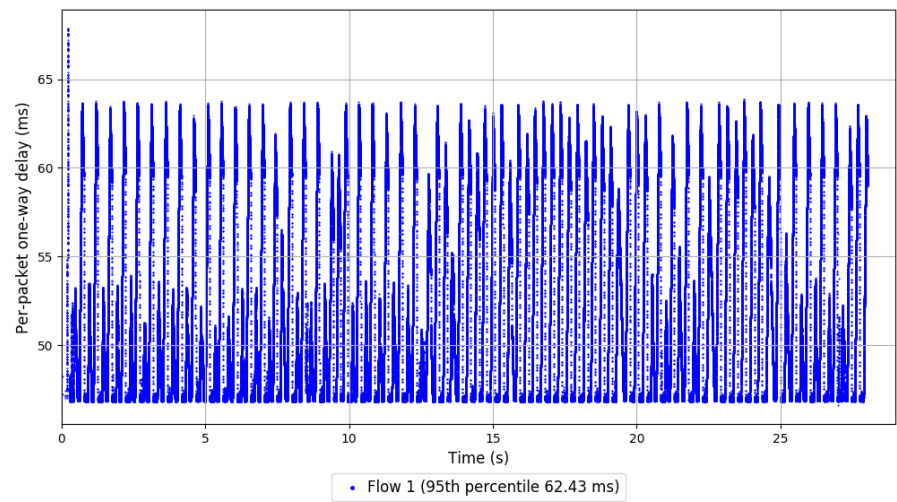
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 78.37 Mbit/s)　　　Flow 1 egress (mean 78.33 Mbit/s)

Flow 1 (95th percentile 62.54 ms)

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

Start at: 2017-09-23 04:04:57
End at: 2017-09-23 04:05:27
Local clock offset: -1.208 ms
Remote clock offset: 0.987 ms


# Below is generated by plot.py at 2017-09-23 07:09:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.45 Mbit/s
95th percentile per-packet one-way delay: 64.981 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 74.45 Mbit/s
95th percentile per-packet one-way delay: 64.981 ms
Loss rate: 0.11%
```
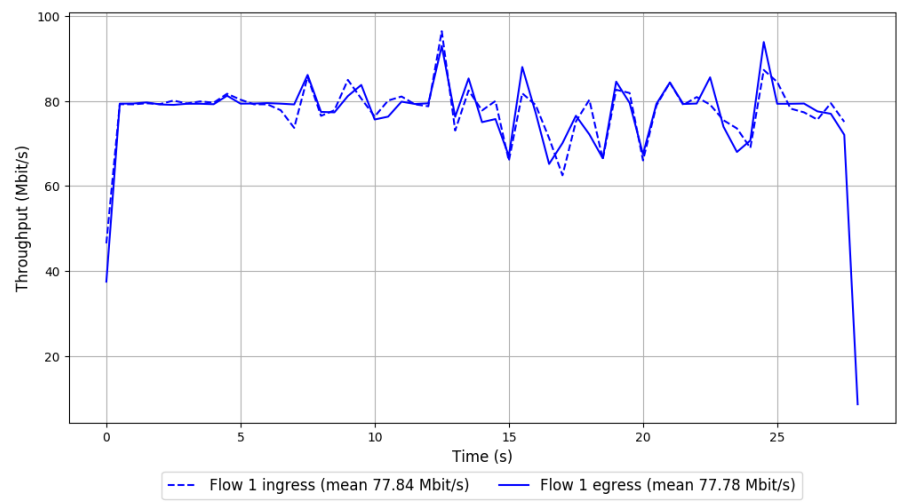
Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2017-09-23 04:23:44
End at: 2017-09-23 04:24:14
Local clock offset: -0.992 ms
Remote clock offset: 0.531 ms


# Below is generated by plot.py at 2017-09-23 07:09:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 66.259 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 66.259 ms
Loss rate: 0.00%
```
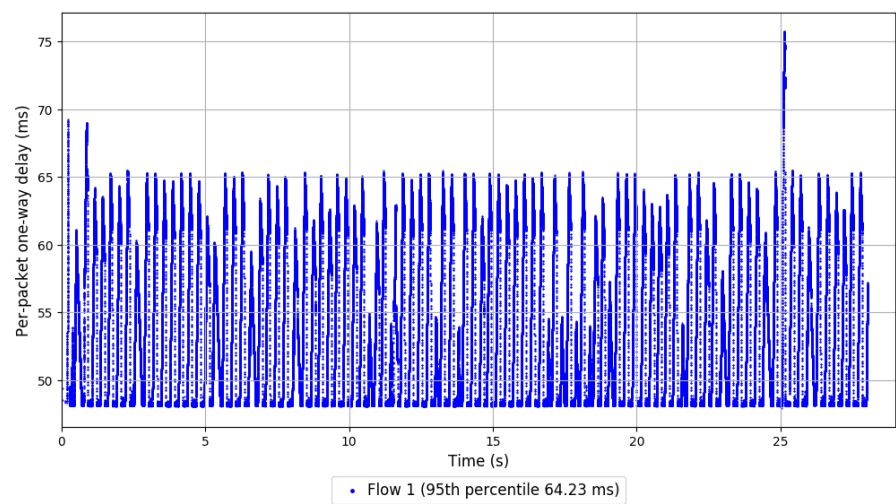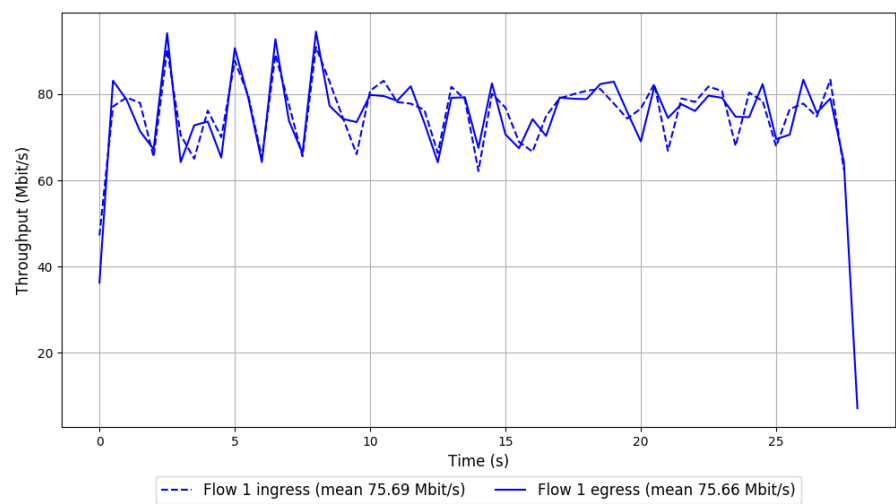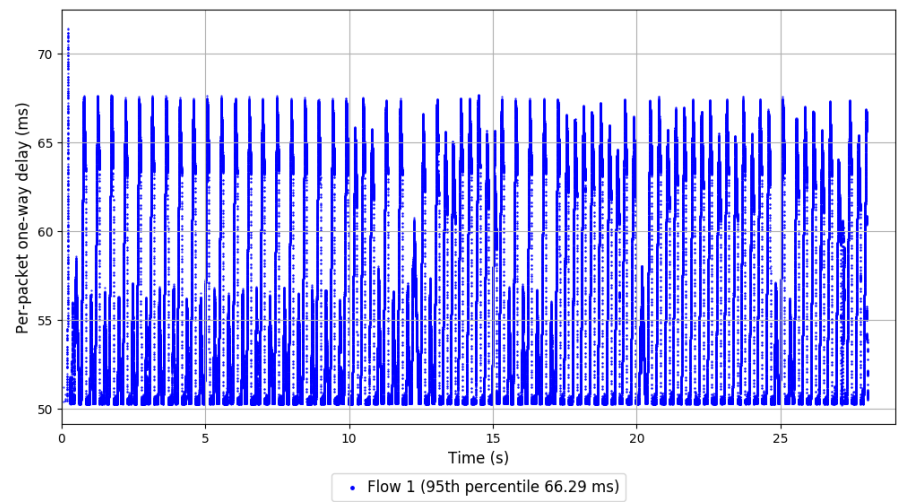
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 79.42 Mbit/s) --- Flow 1 egress (mean 79.43 Mbit/s)

Flow 1 (95th percentile 66.26 ms)

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

Start at: 2017-09-23 04:42:55
End at: 2017-09-23 04:43:25
Local clock offset: -0.673 ms
Remote clock offset: -1.811 ms


# Below is generated by plot.py at 2017-09-23 07:09:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 62.431 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 62.431 ms
Loss rate: 0.05%
```
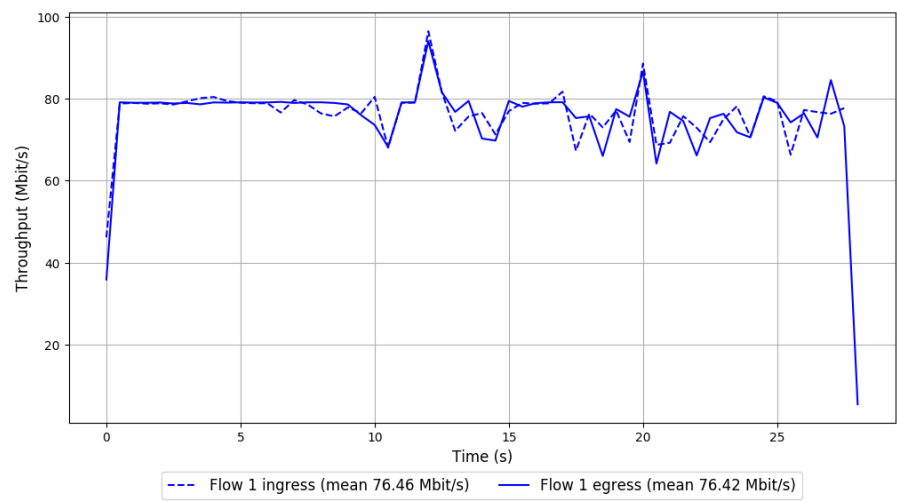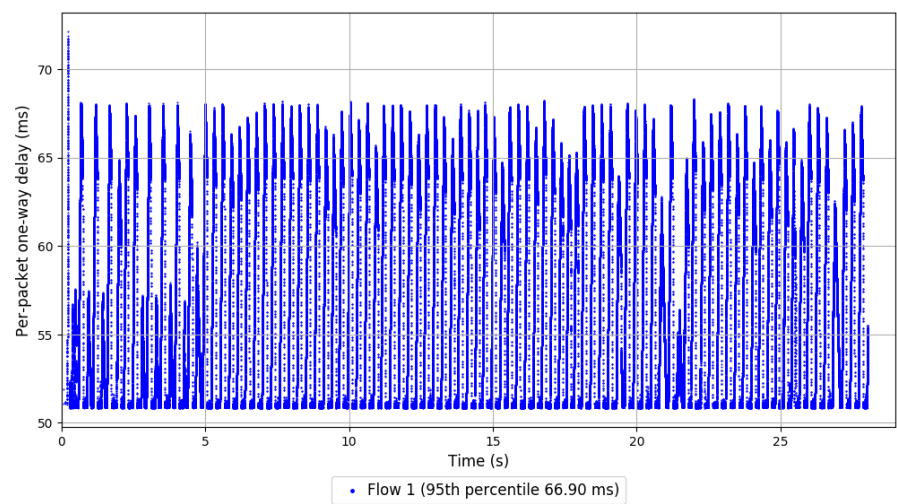
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 77.84 Mbit/s)　　Flow 1 egress (mean 77.78 Mbit/s)
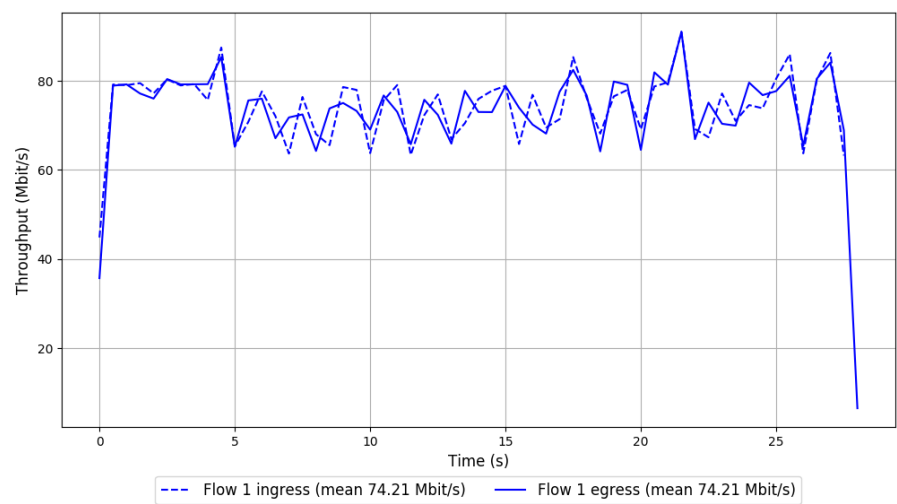

Flow 1 (95th percentile 62.43 ms)

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

Start at: 2017-09-23 05:01:44
End at: 2017-09-23 05:02:14
Local clock offset: -0.831 ms
Remote clock offset: -2.149 ms


# Below is generated by plot.py at 2017-09-23 07:09:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.66 Mbit/s
95th percentile per-packet one-way delay: 64.232 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 75.66 Mbit/s
95th percentile per-packet one-way delay: 64.232 ms
Loss rate: 0.01%
```

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

Flow 1 ingress (mean 75.69 Mbit/s) — Flow 1 egress (mean 75.66 Mbit/s)

• Flow 1 (95th percentile 64.23 ms)

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

Start at: 2017-09-23 05:20:39
End at: 2017-09-23 05:21:09
Local clock offset: -0.732 ms
Remote clock offset: -0.324 ms


# Below is generated by plot.py at 2017-09-23 07:09:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.42 Mbit/s
95th percentile per-packet one-way delay: 66.288 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 76.42 Mbit/s
95th percentile per-packet one-way delay: 66.288 ms
Loss rate: 0.06%
```
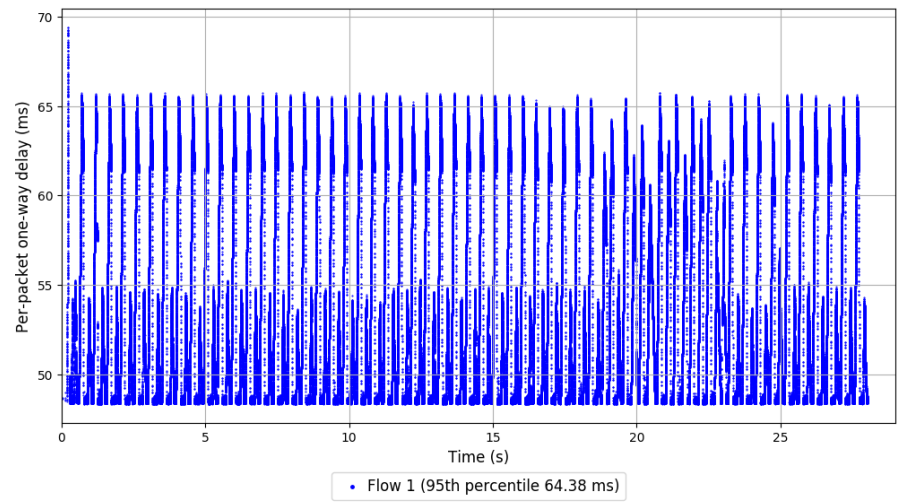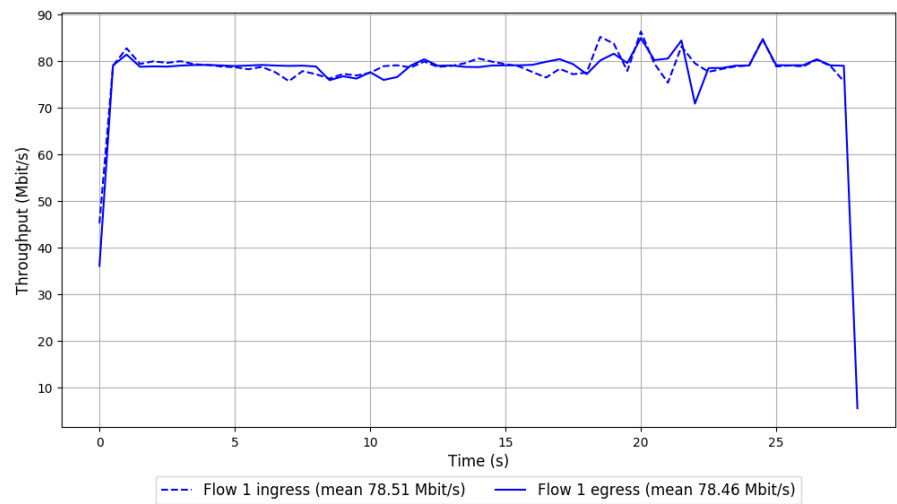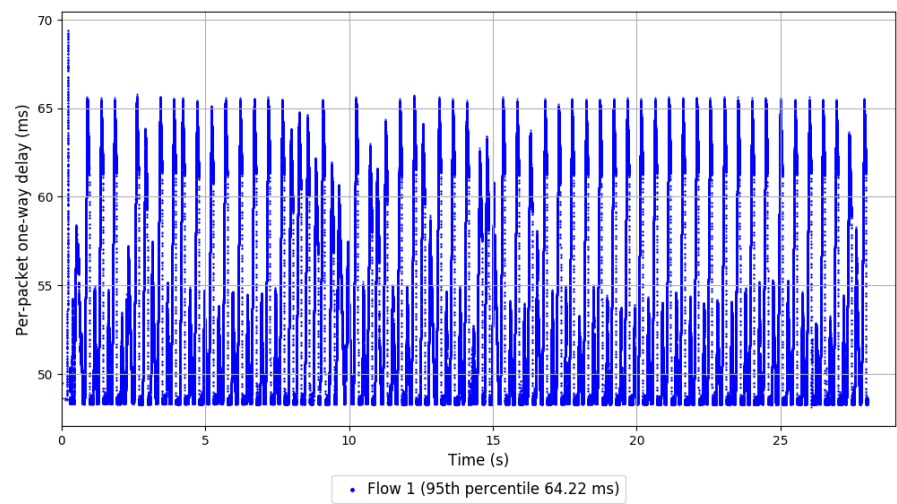
Run 6: Report of TaoVA-100x — Data Link

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

Start at: 2017-09-23 05:39:33
End at: 2017-09-23 05:40:03
Local clock offset: -0.675 ms
Remote clock offset: -0.039 ms


# Below is generated by plot.py at 2017-09-23 07:09:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.21 Mbit/s
95th percentile per-packet one-way delay: 66.900 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.21 Mbit/s
95th percentile per-packet one-way delay: 66.900 ms
Loss rate: 0.00%
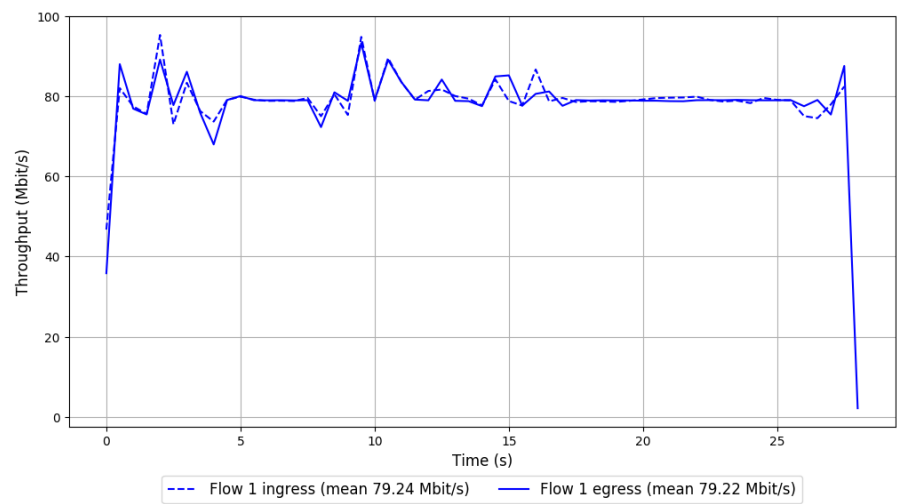```

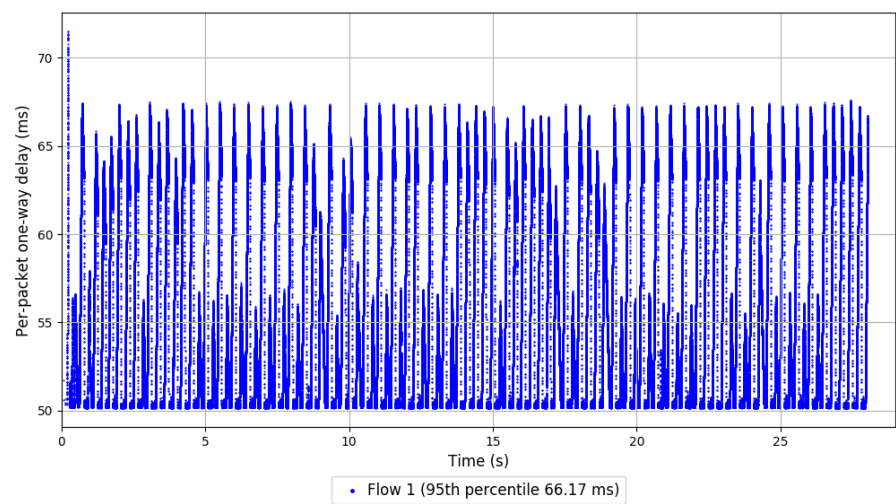Run 7: Report of TaoVA-100x — Data Link

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

Start at: 2017-09-23 05:58:33
End at: 2017-09-23 05:59:03
Local clock offset: -1.004 ms
Remote clock offset: -2.747 ms

Below is generated by plot.py at 2017-09-23 07:10:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 64.379 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 78.46 Mbit/s
95th percentile per-packet one-way delay: 64.379 ms
Loss rate: 0.06%
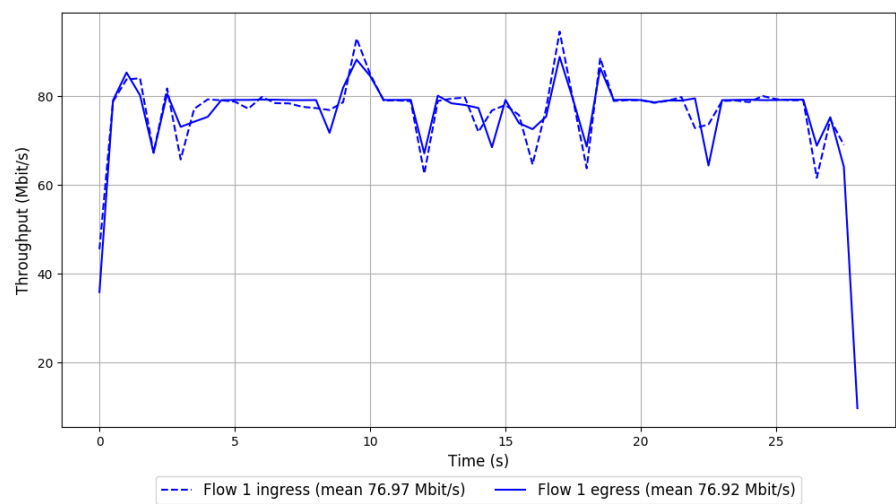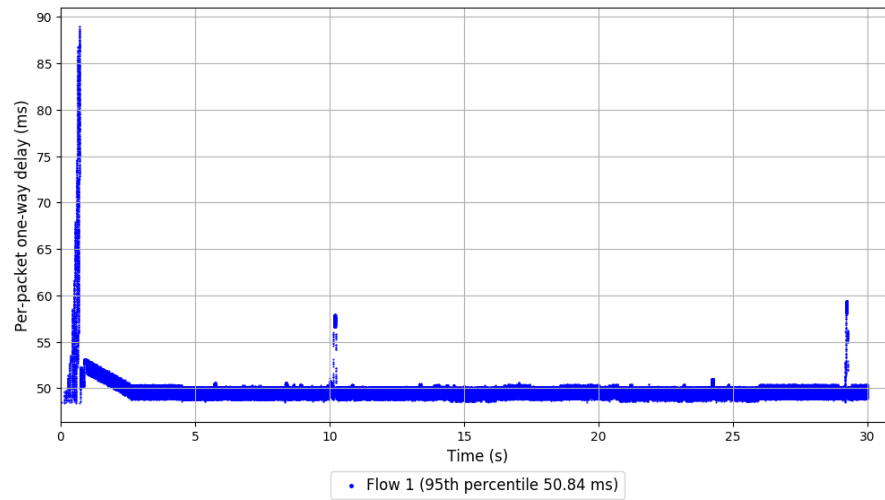```

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

Flow 1 ingress (mean 78.51 Mbit/s) —— Flow 1 egress (mean 78.46 Mbit/s)

• Flow 1 (95th percentile 64.38 ms)

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

Start at: 2017-09-23 06:17:22
End at: 2017-09-23 06:17:52
Local clock offset: -0.999 ms
Remote clock offset: -2.654 ms


# Below is generated by plot.py at 2017-09-23 07:11:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.22 Mbit/s
95th percentile per-packet one-way delay: 64.219 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 79.22 Mbit/s
95th percentile per-packet one-way delay: 64.219 ms
Loss rate: 0.03%
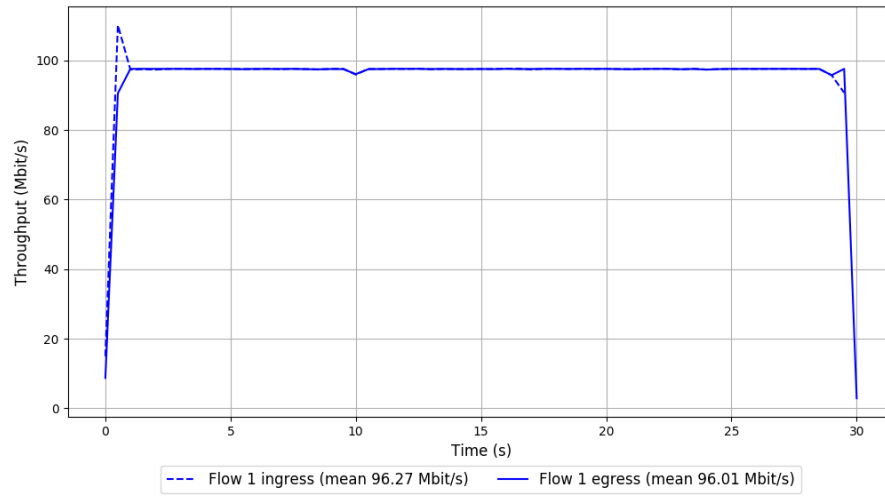```
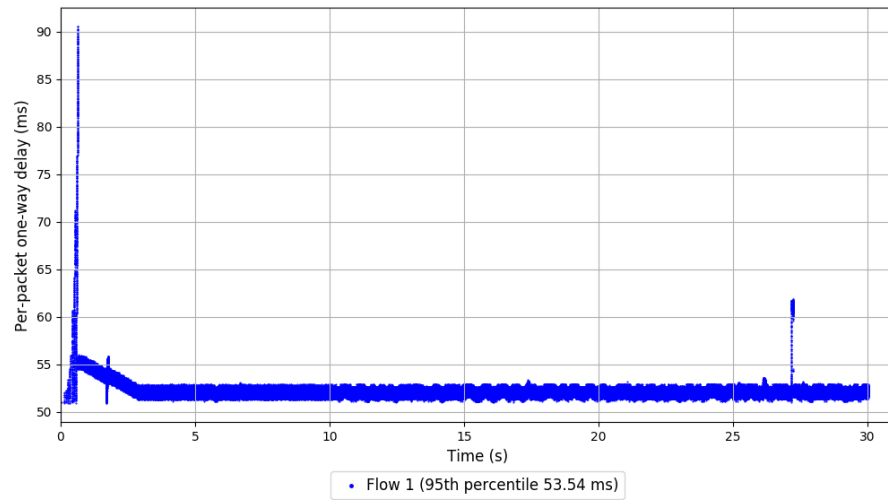
# Run 9: Report of TaoVA-100x — Data Link



Flow 1 ingress (mean 79.24 Mbit/s)    Flow 1 egress (mean 79.22 Mbit/s)



Flow 1 (95th percentile 64.22 ms)

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

Start at: 2017-09-23 06:36:11
End at: 2017-09-23 06:36:41
Local clock offset: -1.112 ms
Remote clock offset: -0.246 ms


# Below is generated by plot.py at 2017-09-23 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.92 Mbit/s
95th percentile per-packet one-way delay: 66.172 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.92 Mbit/s
95th percentile per-packet one-way delay: 66.172 ms
Loss rate: 0.00%
```

Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 76.97 Mbit/s)   Flow 1 egress (mean 76.92 Mbit/s)
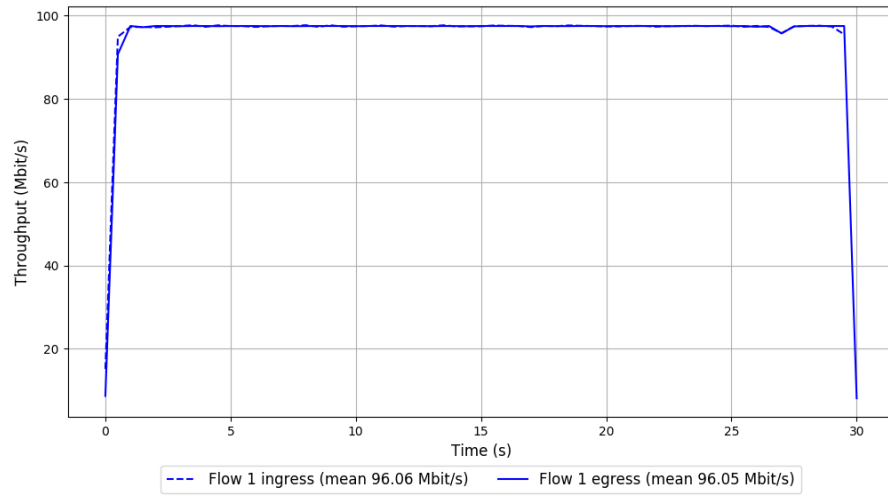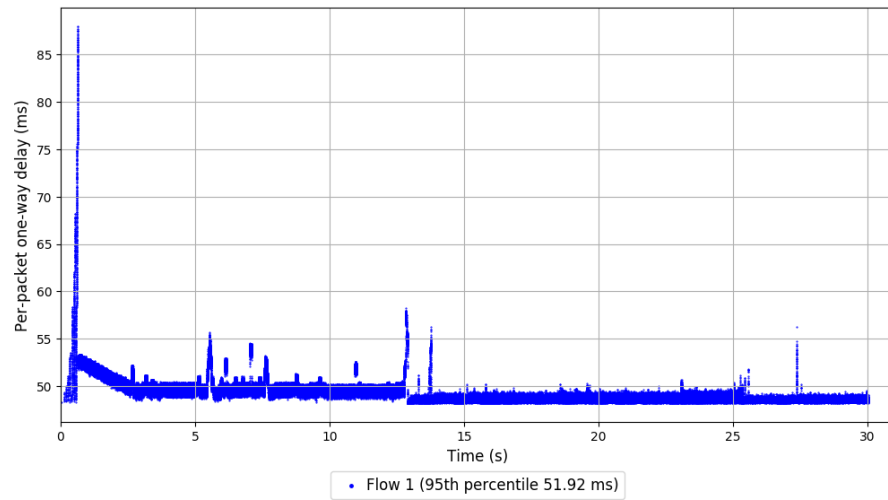

Flow 1 (95th percentile 66.17 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2017-09-23 03:35:31
End at: 2017-09-23 03:36:01
Local clock offset: -2.715 ms
Remote clock offset: -1.143 ms


# Below is generated by plot.py at 2017-09-23 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 50.843 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 50.843 ms
Loss rate: 0.27%
```
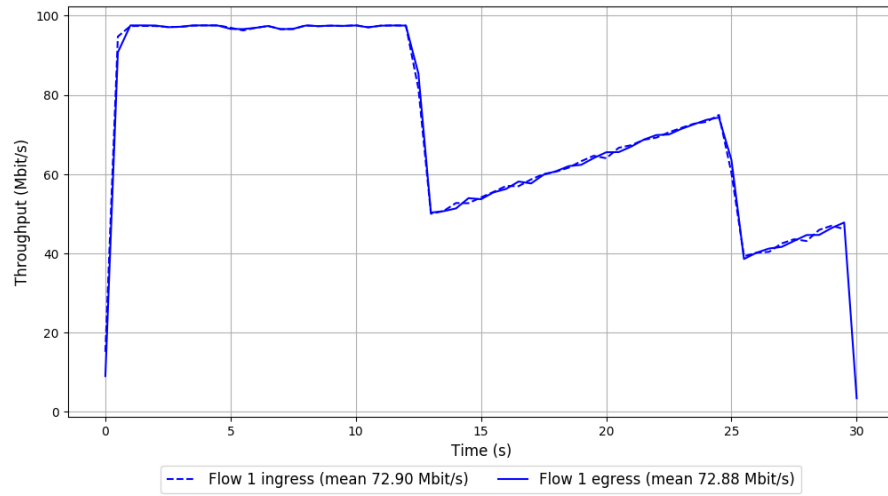
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2017-09-23 03:54:16
End at: 2017-09-23 03:54:46
Local clock offset: -2.025 ms
Remote clock offset: 1.113 ms


# Below is generated by plot.py at 2017-09-23 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 53.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.05 Mbit/s
95th percentile per-packet one-way delay: 53.544 ms
Loss rate: 0.00%
```
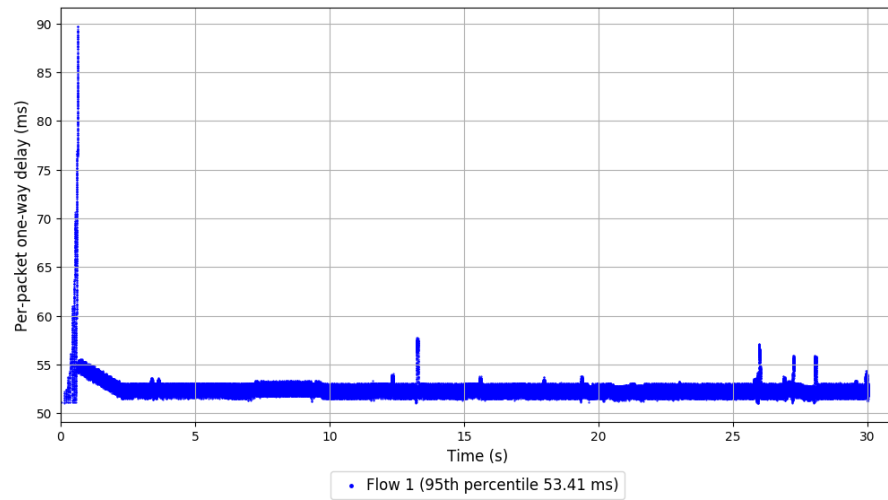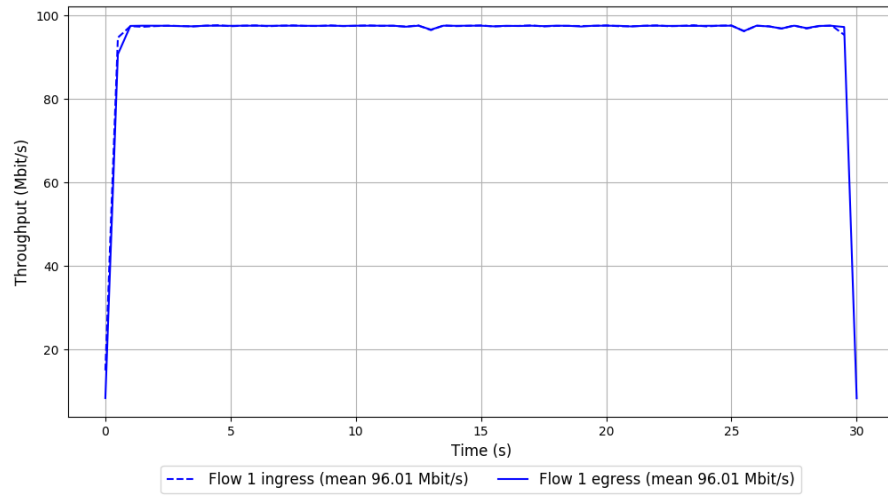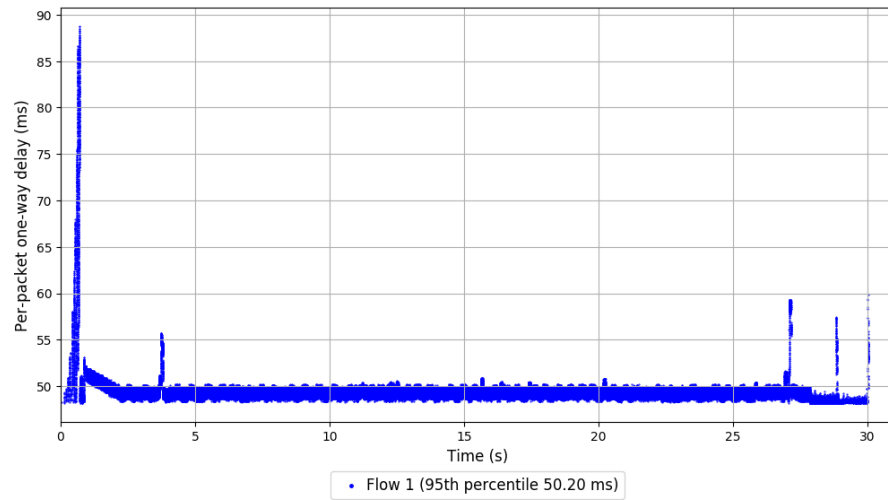
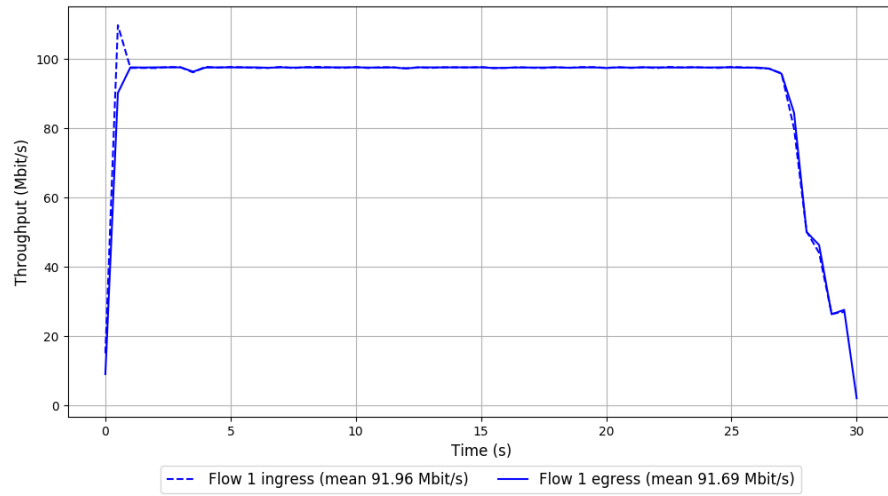Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2017-09-23 04:13:04
End at: 2017-09-23 04:13:34
Local clock offset: -1.027 ms
Remote clock offset: -1.644 ms


# Below is generated by plot.py at 2017-09-23 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.88 Mbit/s
95th percentile per-packet one-way delay: 51.924 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 72.88 Mbit/s
95th percentile per-packet one-way delay: 51.924 ms
Loss rate: 0.03%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 72.90 Mbit/s) --- Flow 1 egress (mean 72.88 Mbit/s)

• Flow 1 (95th percentile 51.92 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2017-09-23 04:32:02
End at: 2017-09-23 04:32:32
Local clock offset: -0.9 ms
Remote clock offset: 0.922 ms


# Below is generated by plot.py at 2017-09-23 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 53.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.01 Mbit/s
95th percentile per-packet one-way delay: 53.413 ms
Loss rate: 0.00%
```

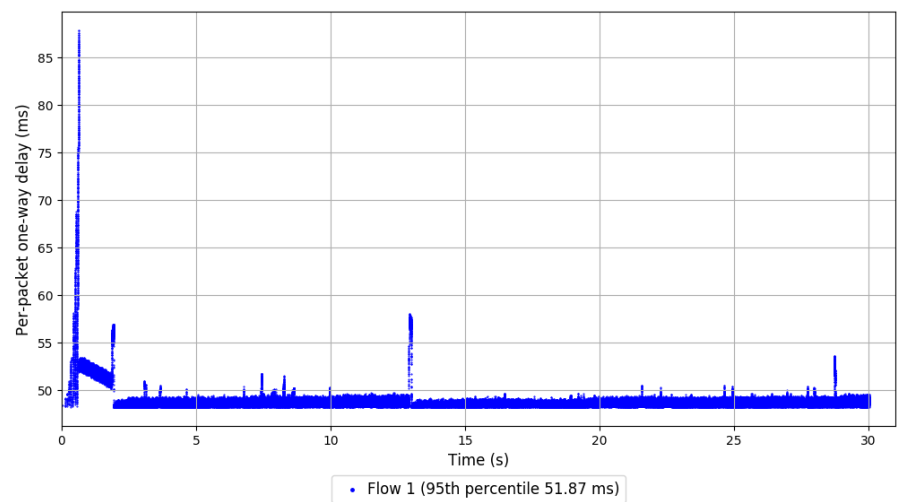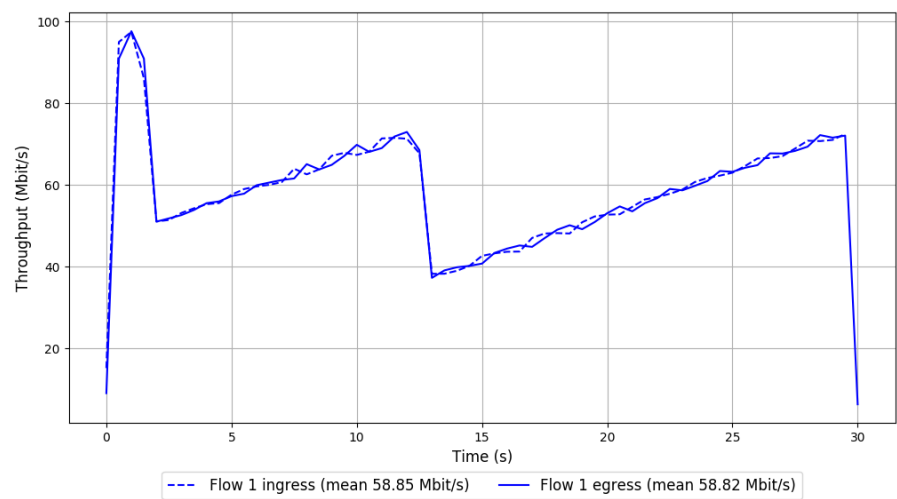Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2017-09-23 04:51:03
End at: 2017-09-23 04:51:33
Local clock offset: -0.924 ms
Remote clock offset: -2.063 ms

# Below is generated by plot.py at 2017-09-23 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 50.197 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 91.69 Mbit/s
95th percentile per-packet one-way delay: 50.197 ms
Loss rate: 0.29%
```
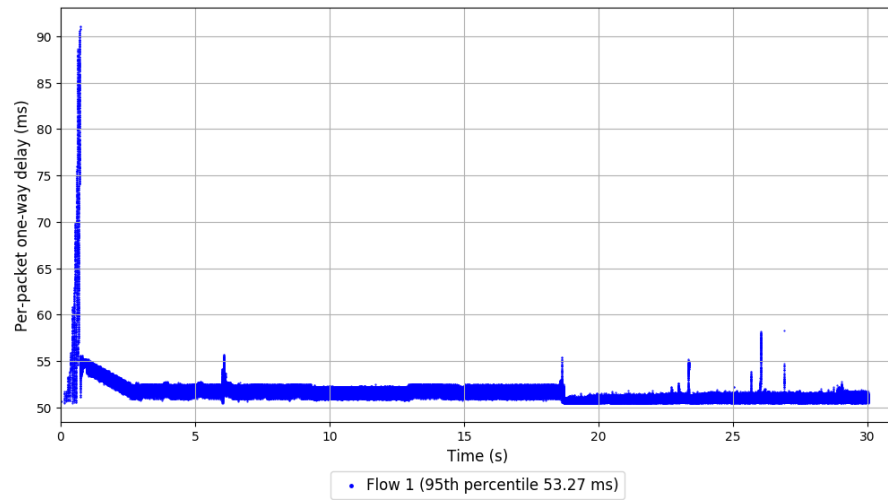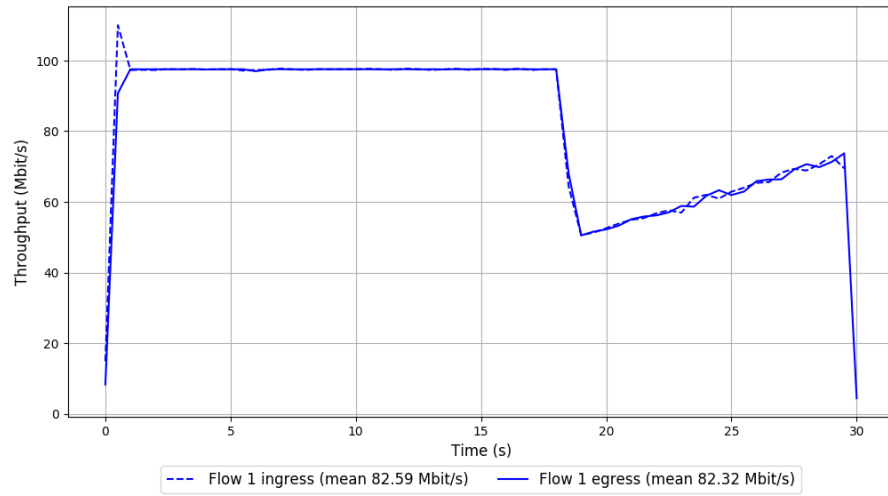
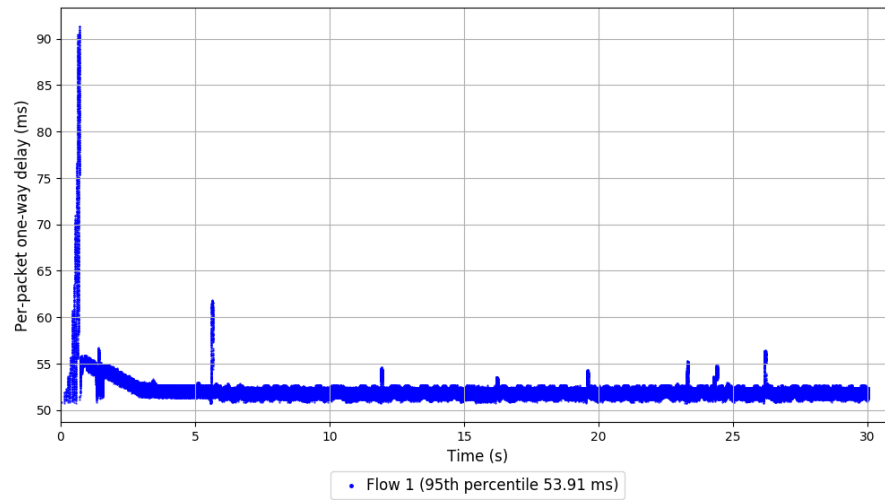Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2017-09-23 05:09:54
End at: 2017-09-23 05:10:24
Local clock offset: -0.773 ms
Remote clock offset: -2.091 ms


# Below is generated by plot.py at 2017-09-23 07:11:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.82 Mbit/s
95th percentile per-packet one-way delay: 51.869 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 58.82 Mbit/s
95th percentile per-packet one-way delay: 51.869 ms
Loss rate: 0.04%
```

Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 58.85 Mbit/s) — Flow 1 egress (mean 58.82 Mbit/s)

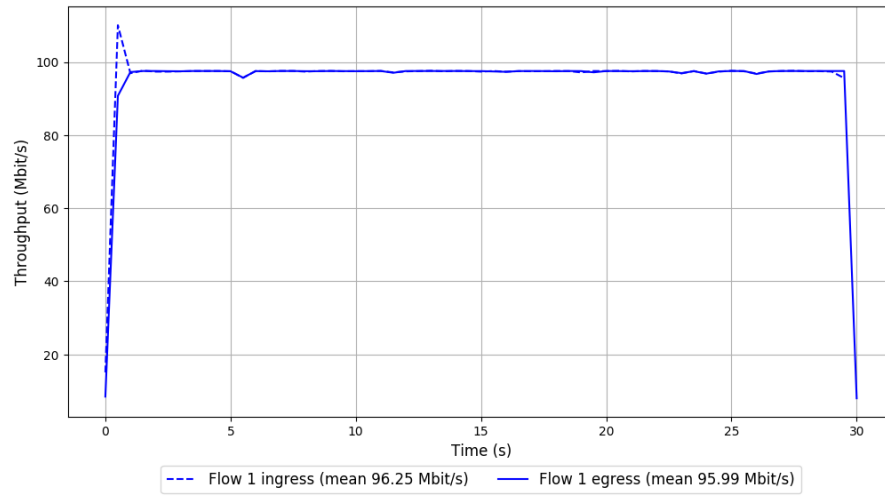
Flow 1 (95th percentile 51.87 ms)

195

```
Run 7: Statistics of TCP Vegas

Start at: 2017-09-23 05:28:48
End at: 2017-09-23 05:29:18
Local clock offset: -0.759 ms
Remote clock offset: -0.615 ms


# Below is generated by plot.py at 2017-09-23 07:11:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.32 Mbit/s
95th percentile per-packet one-way delay: 53.270 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 82.32 Mbit/s
95th percentile per-packet one-way delay: 53.270 ms
Loss rate: 0.33%
```
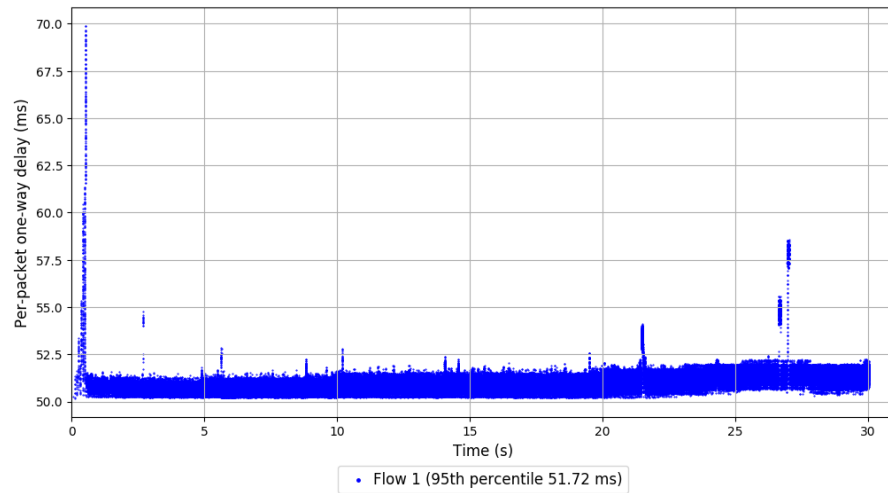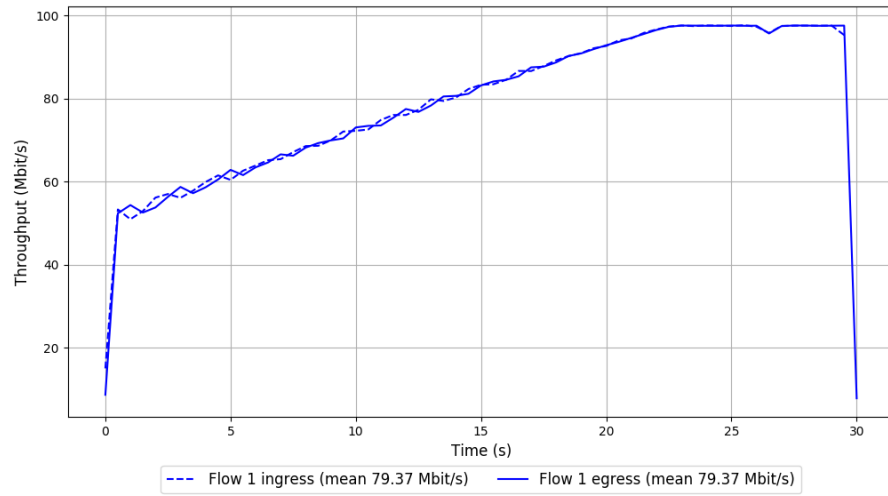
Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 82.59 Mbit/s)   Flow 1 egress (mean 82.32 Mbit/s)

Flow 1 (95th percentile 53.27 ms)

```
Run 8: Statistics of TCP Vegas

Start at: 2017-09-23 05:47:42
End at: 2017-09-23 05:48:12
Local clock offset: -0.81 ms
Remote clock offset: -0.133 ms


# Below is generated by plot.py at 2017-09-23 07:12:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 53.907 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 95.99 Mbit/s
95th percentile per-packet one-way delay: 53.907 ms
Loss rate: 0.26%
```
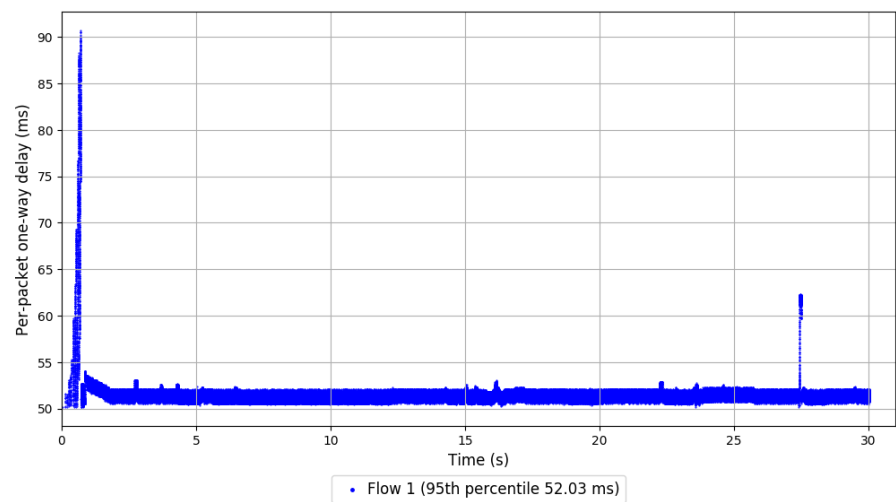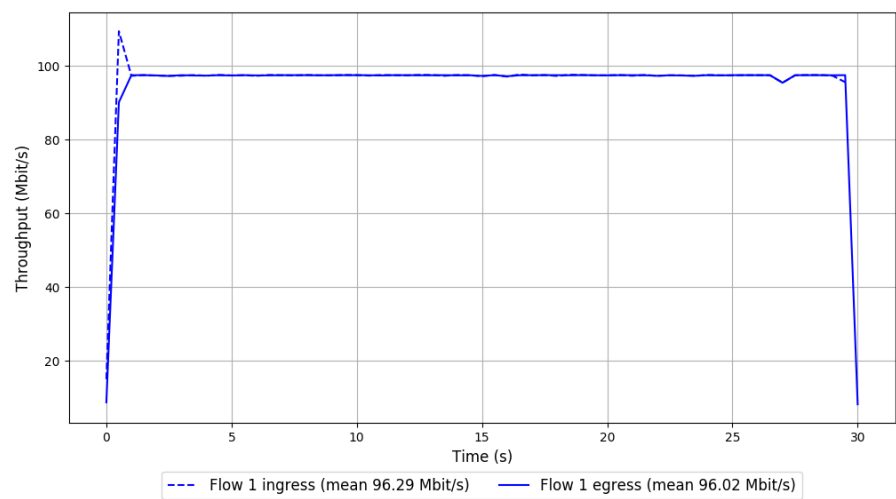
Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.25 Mbit/s) ——— Flow 1 egress (mean 95.99 Mbit/s)

• Flow 1 (95th percentile 53.91 ms)

```
Run 9: Statistics of TCP Vegas

Start at: 2017-09-23 06:06:38
End at: 2017-09-23 06:07:08
Local clock offset: -0.911 ms
Remote clock offset: -0.626 ms


# Below is generated by plot.py at 2017-09-23 07:12:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.37 Mbit/s
95th percentile per-packet one-way delay: 51.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.37 Mbit/s
95th percentile per-packet one-way delay: 51.722 ms
Loss rate: 0.00%
```
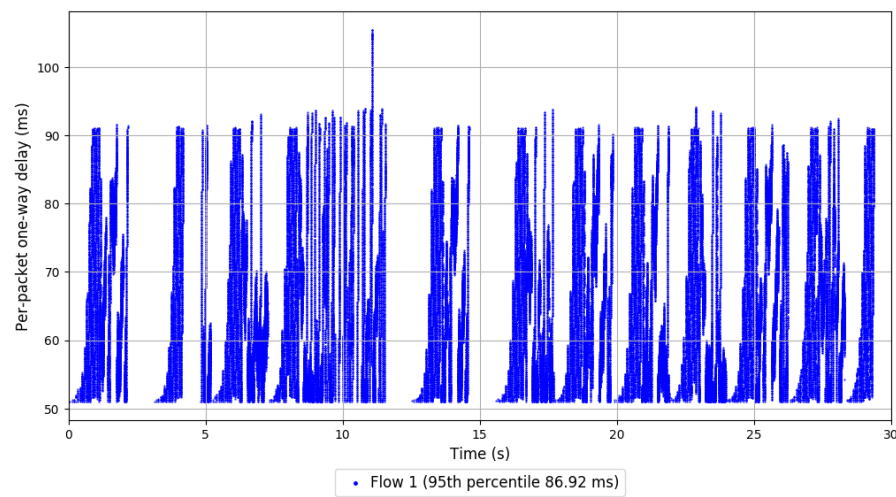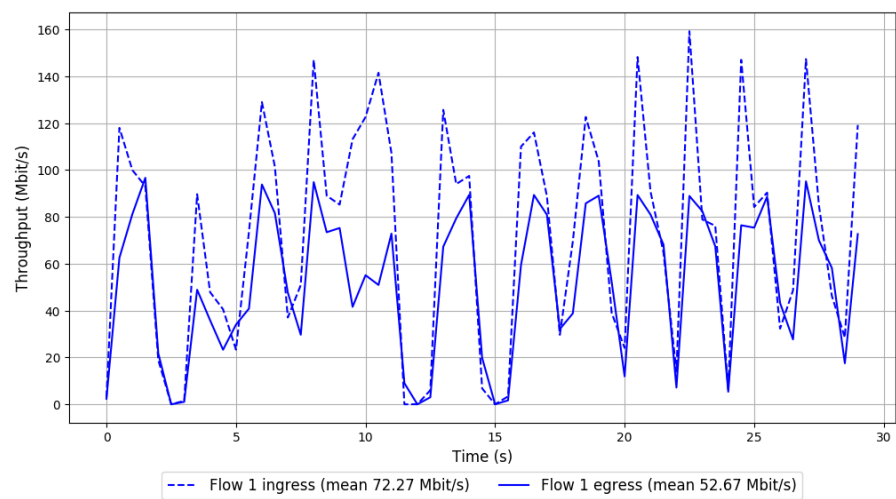
Run 9: Report of TCP Vegas — Data Link

```
Run 10: Statistics of TCP Vegas

Start at: 2017-09-23 06:25:29
End at: 2017-09-23 06:25:59
Local clock offset: -1.115 ms
Remote clock offset: -0.421 ms


# Below is generated by plot.py at 2017-09-23 07:12:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 52.034 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 52.034 ms
Loss rate: 0.27%
```
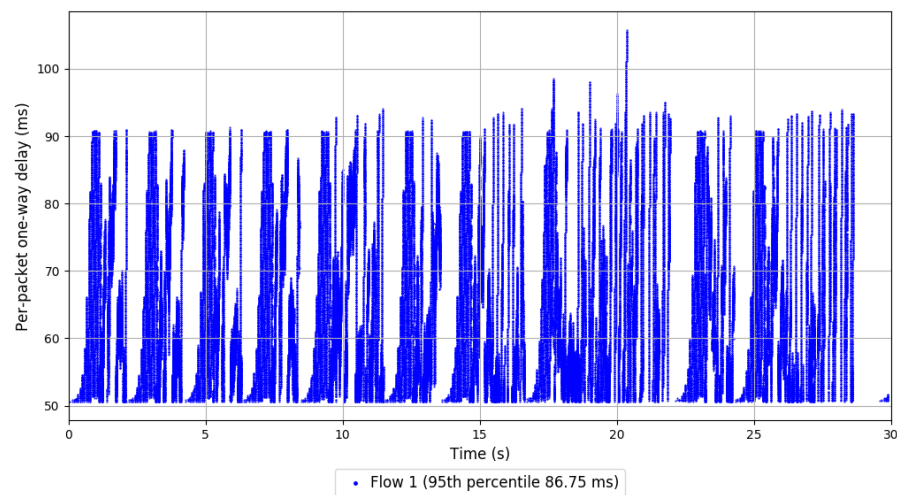
Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2017-09-23 03:34:11
End at: 2017-09-23 03:34:41
Local clock offset: -2.704 ms
Remote clock offset: 1.561 ms


# Below is generated by plot.py at 2017-09-23 07:12:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.67 Mbit/s
95th percentile per-packet one-way delay: 86.922 ms
Loss rate: 27.10%
-- Flow 1:
Average throughput: 52.67 Mbit/s
95th percentile per-packet one-way delay: 86.922 ms
Loss rate: 27.10%
```
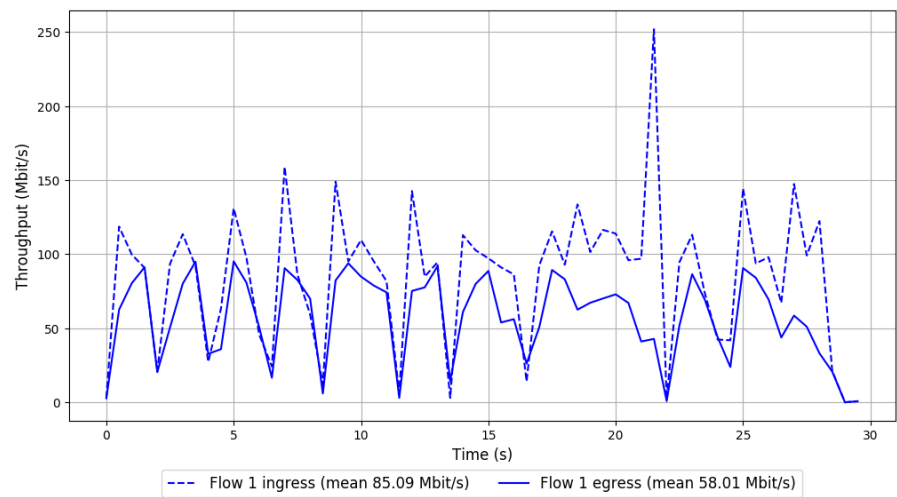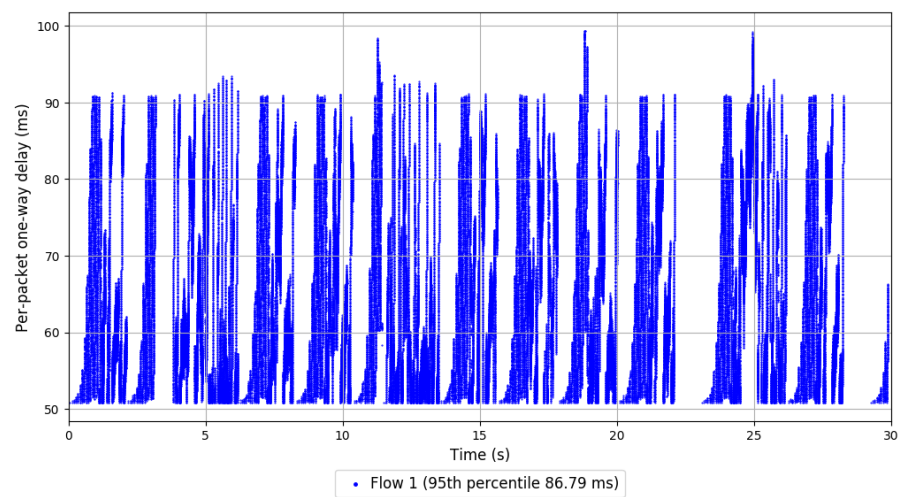
Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2017-09-23 03:52:55
End at: 2017-09-23 03:53:25
Local clock offset: -2.147 ms
Remote clock offset: 0.659 ms


# Below is generated by plot.py at 2017-09-23 07:12:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 86.755 ms
Loss rate: 31.82%
-- Flow 1:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 86.755 ms
Loss rate: 31.82%
```

Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2017-09-23 04:11:43
End at: 2017-09-23 04:12:13
Local clock offset: -0.947 ms
Remote clock offset: 0.825 ms


# Below is generated by plot.py at 2017-09-23 07:12:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.89 Mbit/s
95th percentile per-packet one-way delay: 86.793 ms
Loss rate: 21.53%
-- Flow 1:
Average throughput: 55.89 Mbit/s
95th percentile per-packet one-way delay: 86.793 ms
Loss rate: 21.53%
```
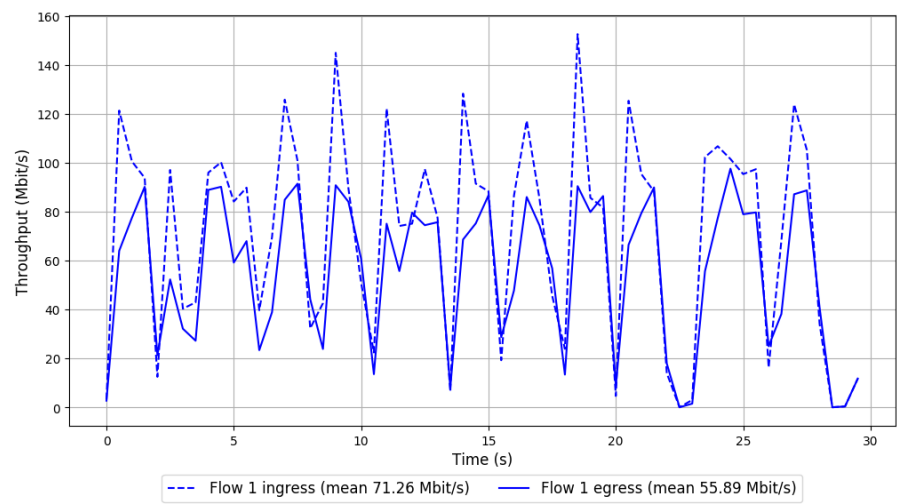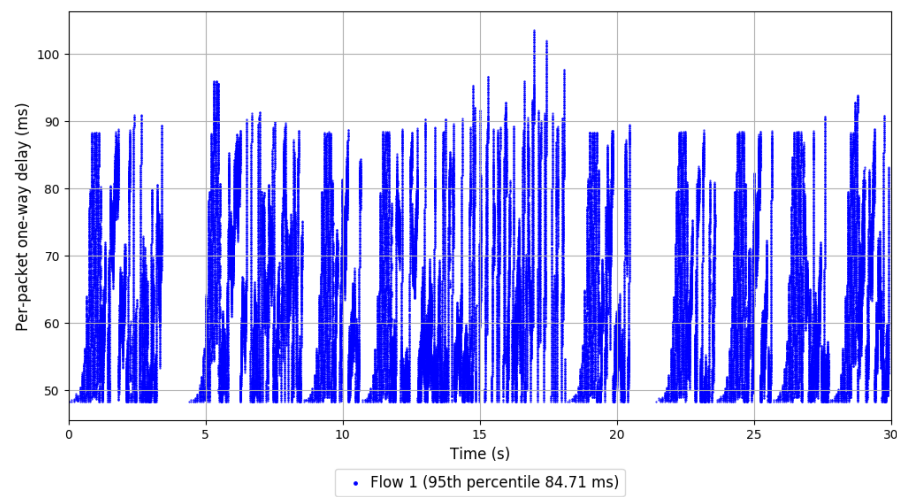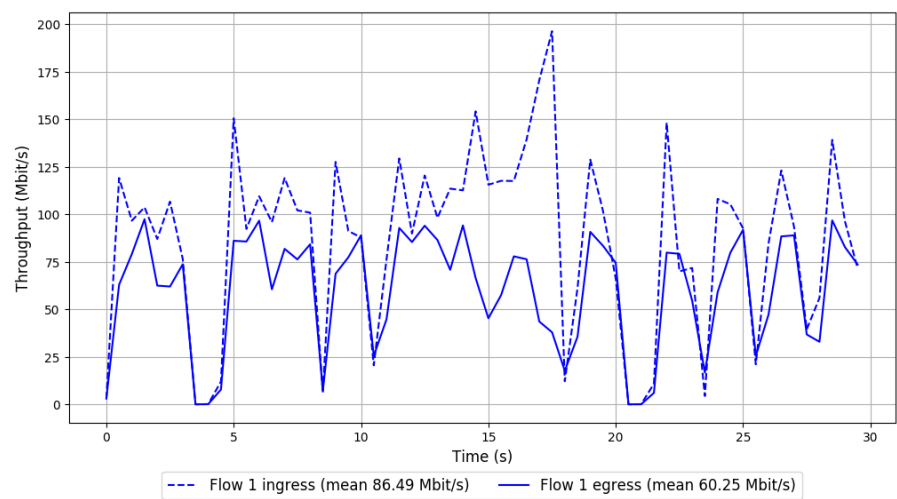
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2017-09-23 04:30:37
End at: 2017-09-23 04:31:07
Local clock offset: -0.947 ms
Remote clock offset: -1.662 ms


# Below is generated by plot.py at 2017-09-23 07:12:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 84.712 ms
Loss rate: 30.27%
-- Flow 1:
Average throughput: 60.25 Mbit/s
95th percentile per-packet one-way delay: 84.712 ms
Loss rate: 30.27%
```
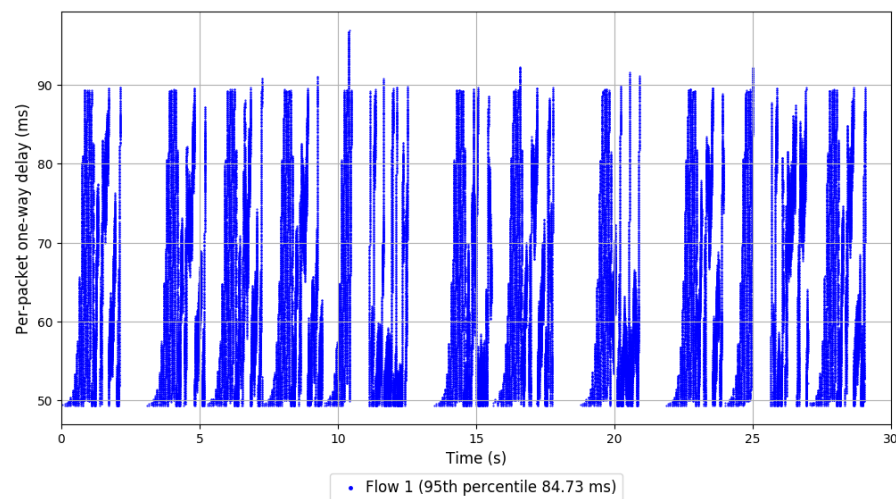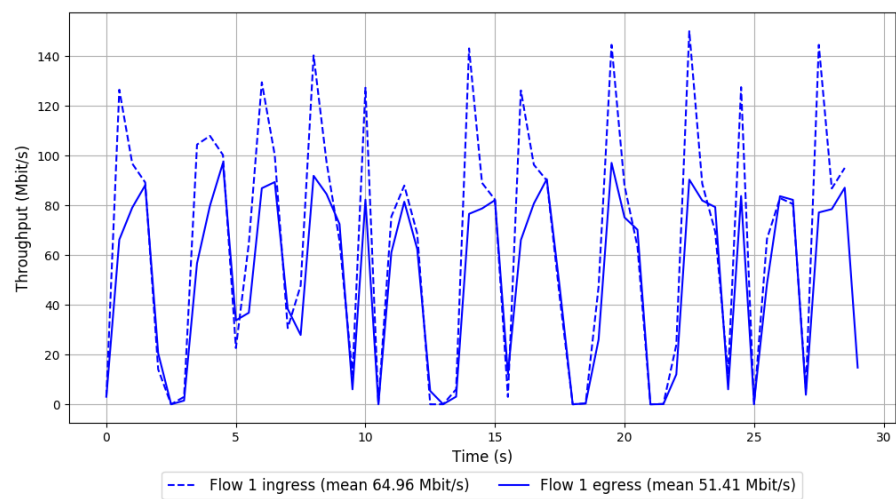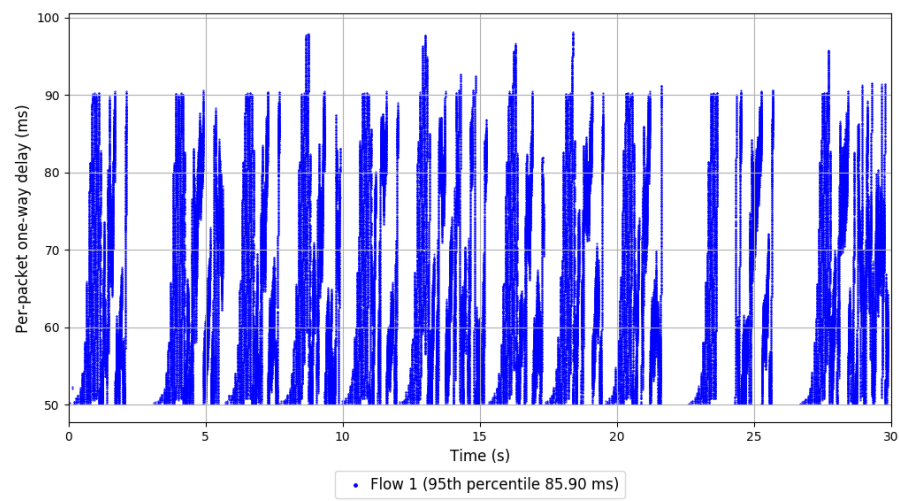
Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 86.49 Mbit/s)   Flow 1 egress (mean 60.25 Mbit/s)
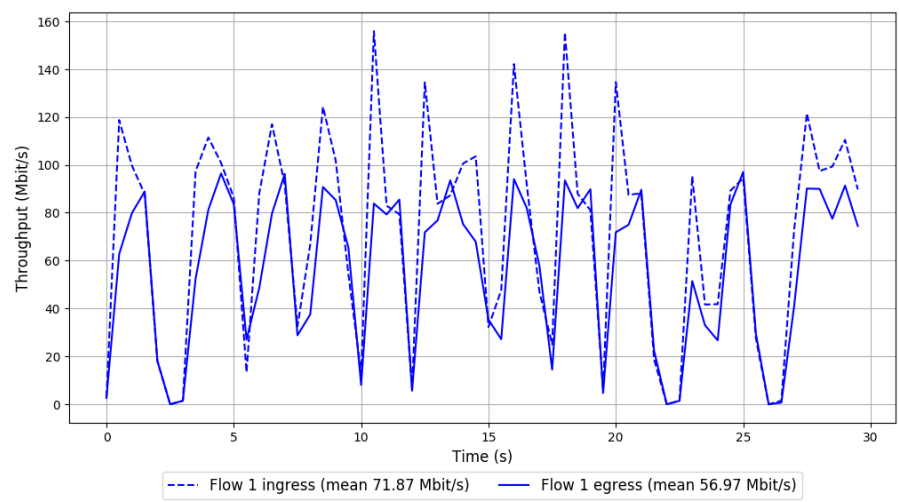

Flow 1 (95th percentile 84.71 ms)

211

```
Run 5: Statistics of Verus

Start at: 2017-09-23 04:49:43
End at: 2017-09-23 04:50:13
Local clock offset: -0.907 ms
Remote clock offset: 0.532 ms


# Below is generated by plot.py at 2017-09-23 07:12:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.41 Mbit/s
95th percentile per-packet one-way delay: 84.733 ms
Loss rate: 20.78%
-- Flow 1:
Average throughput: 51.41 Mbit/s
95th percentile per-packet one-way delay: 84.733 ms
Loss rate: 20.78%
```

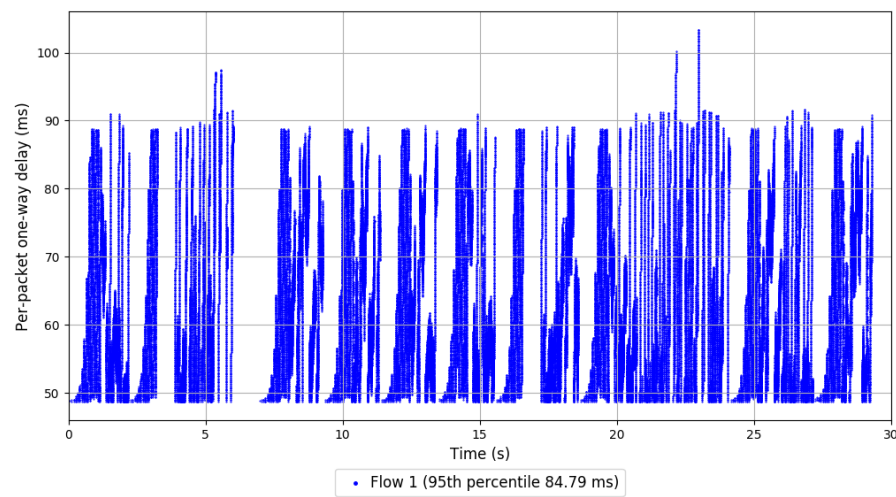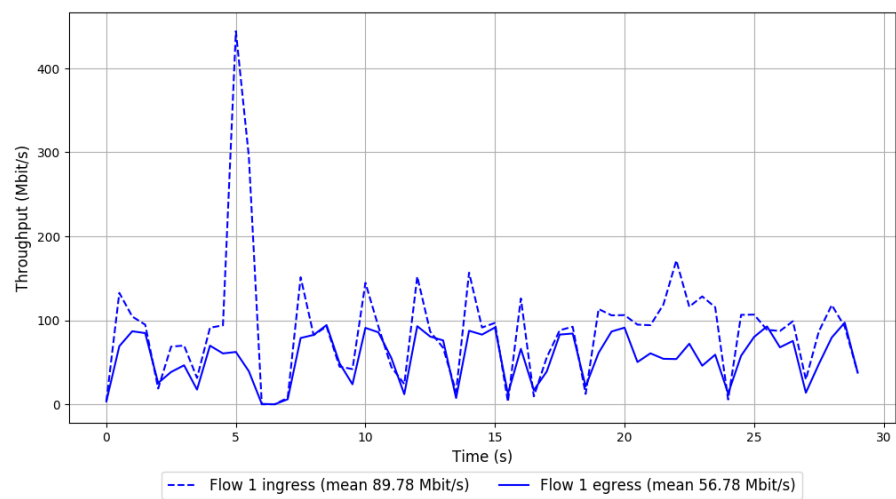Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2017-09-23 05:08:32
End at: 2017-09-23 05:09:02
Local clock offset: -0.767 ms
Remote clock offset: -0.143 ms


# Below is generated by plot.py at 2017-09-23 07:13:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: 85.896 ms
Loss rate: 20.72%
-- Flow 1:
Average throughput: 56.97 Mbit/s
95th percentile per-packet one-way delay: 85.896 ms
Loss rate: 20.72%
```
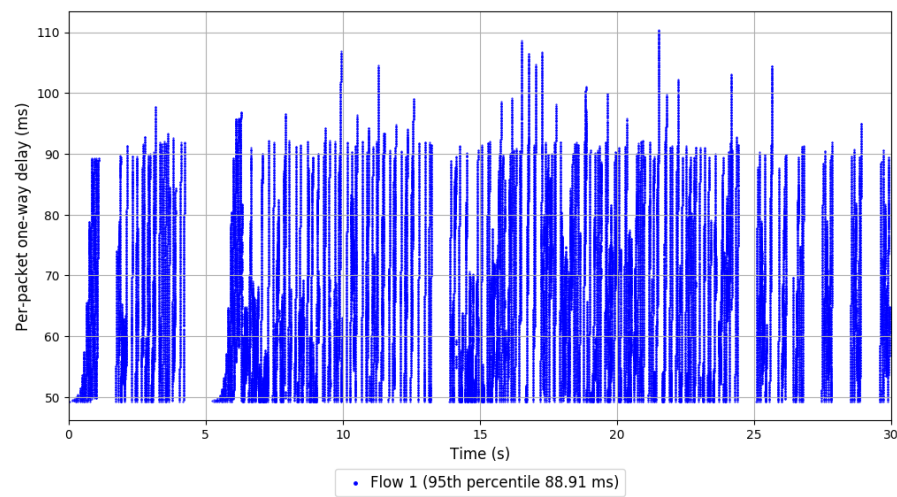
Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2017-09-23 05:27:27
End at: 2017-09-23 05:27:57
Local clock offset: -0.706 ms
Remote clock offset: -0.612 ms


# Below is generated by plot.py at 2017-09-23 07:13:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 84.786 ms
Loss rate: 36.72%
-- Flow 1:
Average throughput: 56.78 Mbit/s
95th percentile per-packet one-way delay: 84.786 ms
Loss rate: 36.72%
```
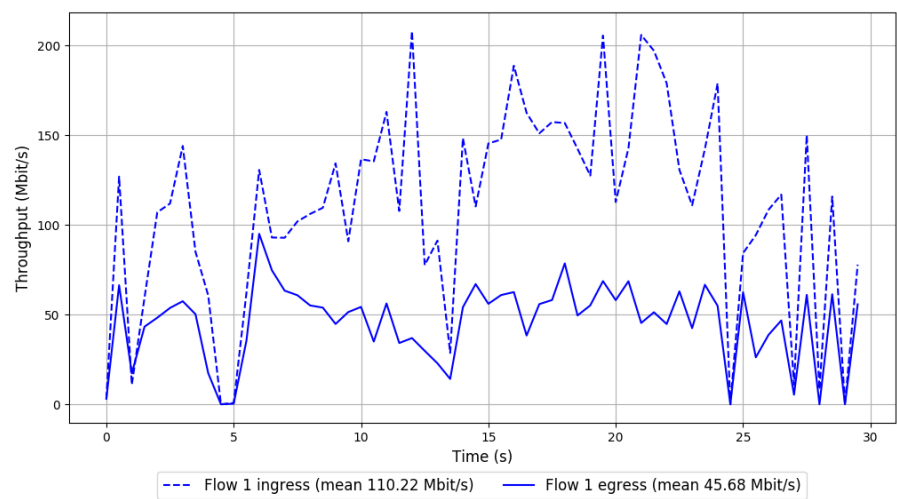
Run 7: Report of Verus — Data Link
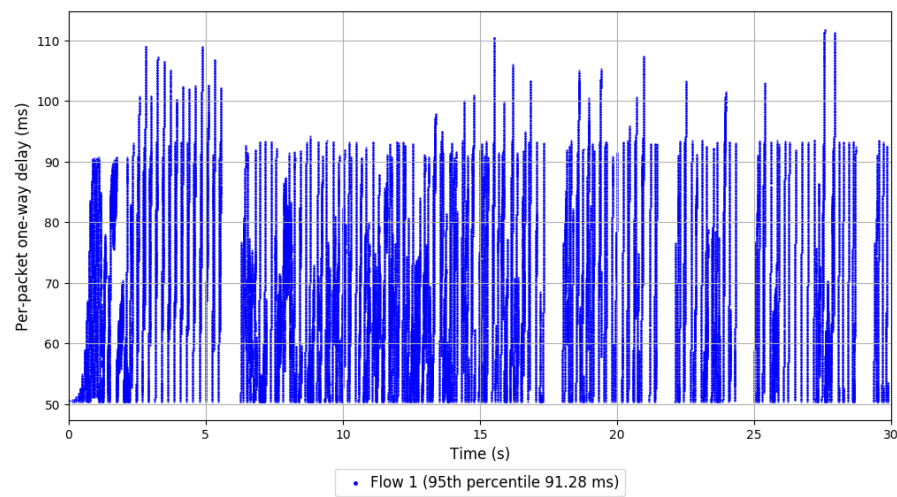

217

```
Run 8: Statistics of Verus

Start at: 2017-09-23 05:46:20
End at: 2017-09-23 05:46:50
Local clock offset: -0.773 ms
Remote clock offset: -0.217 ms


# Below is generated by plot.py at 2017-09-23 07:13:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 88.912 ms
Loss rate: 58.54%
-- Flow 1:
Average throughput: 45.68 Mbit/s
95th percentile per-packet one-way delay: 88.912 ms
Loss rate: 58.54%
```

Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 110.22 Mbit/s)   Flow 1 egress (mean 45.68 Mbit/s)

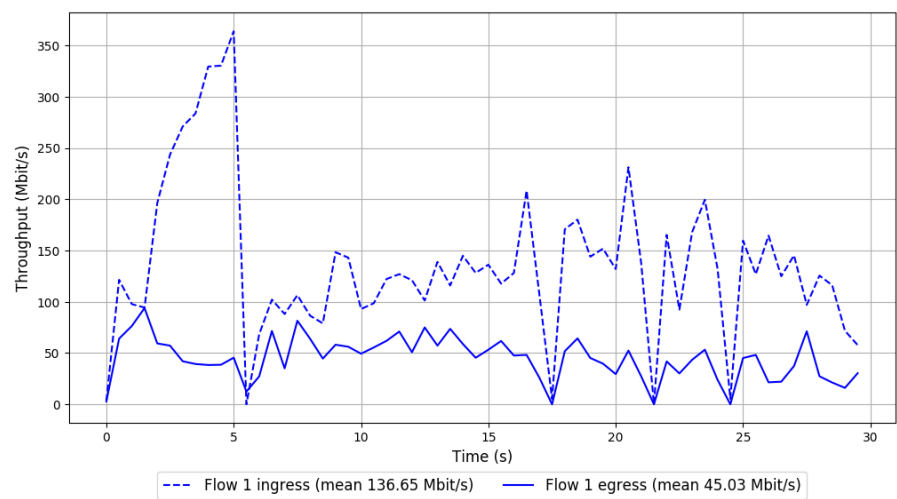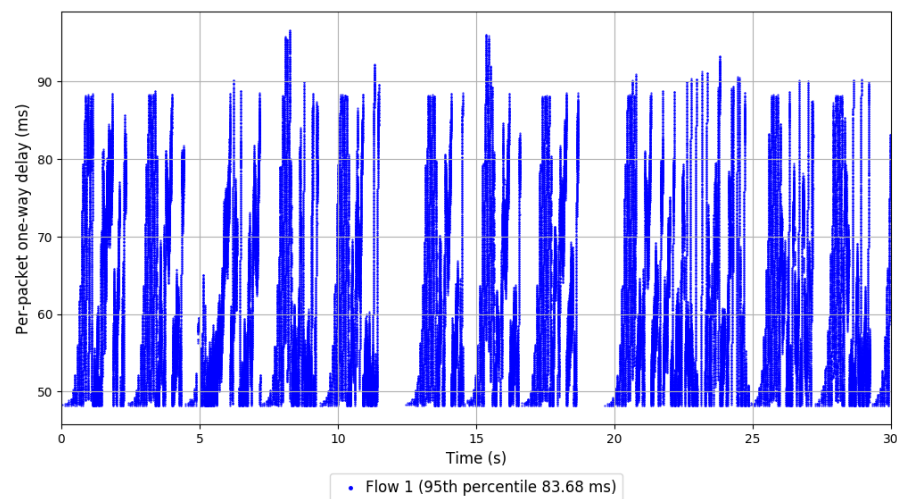Flow 1 (95th percentile 88.91 ms)

```
Run 9: Statistics of Verus

Start at: 2017-09-23 06:05:17
End at: 2017-09-23 06:05:47
Local clock offset: -0.948 ms
Remote clock offset: -0.646 ms


# Below is generated by plot.py at 2017-09-23 07:13:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.03 Mbit/s
95th percentile per-packet one-way delay: 91.276 ms
Loss rate: 67.04%
-- Flow 1:
Average throughput: 45.03 Mbit/s
95th percentile per-packet one-way delay: 91.276 ms
Loss rate: 67.04%
```
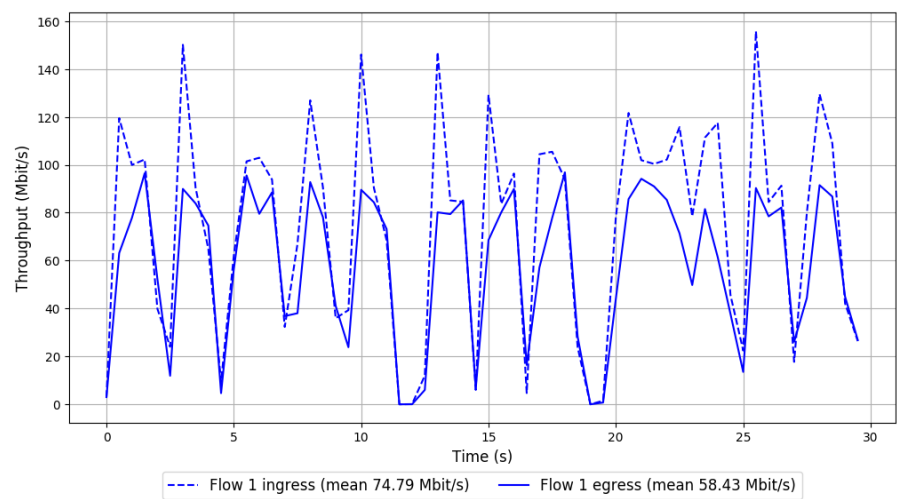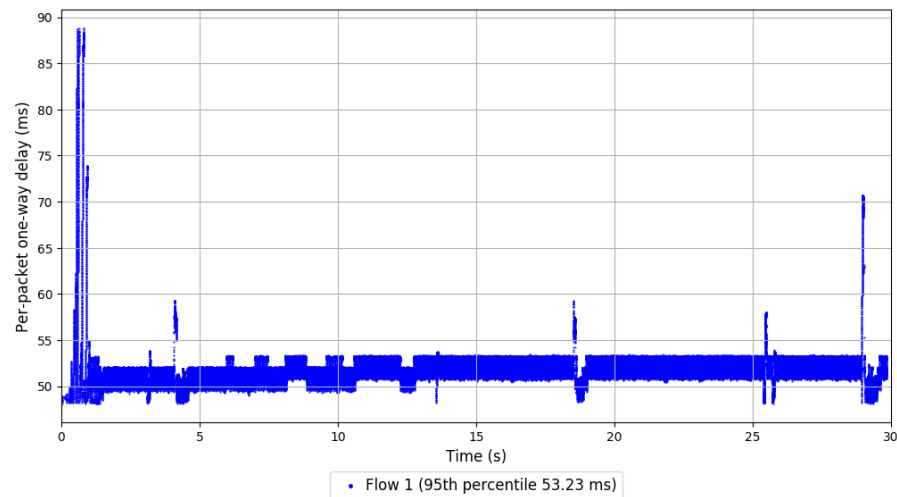
Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2017-09-23 06:24:09
End at: 2017-09-23 06:24:39
Local clock offset: -1.188 ms
Remote clock offset: -2.462 ms


# Below is generated by plot.py at 2017-09-23 07:13:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 83.681 ms
Loss rate: 21.79%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 83.681 ms
Loss rate: 21.79%
```
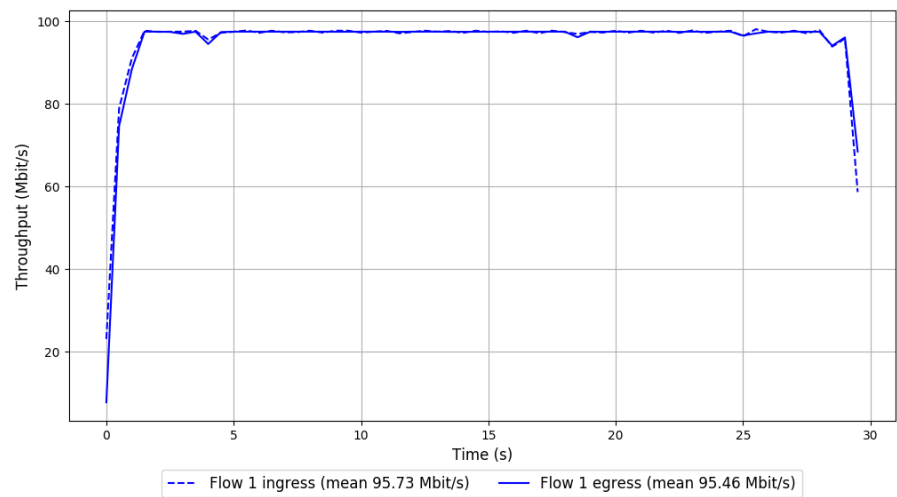
Run 10: Report of Verus — Data Link

```
Run 1: Statistics of Indigo

Start at: 2017-09-23 03:38:15
End at: 2017-09-23 03:38:45
Local clock offset: -2.682 ms
Remote clock offset: -1.218 ms


# Below is generated by plot.py at 2017-09-23 07:13:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 53.226 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 95.46 Mbit/s
95th percentile per-packet one-way delay: 53.226 ms
Loss rate: 0.27%
```

Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2017-09-23 03:57:00
End at: 2017-09-23 03:57:30
Local clock offset: -1.763 ms
Remote clock offset: 1.024 ms


# Below is generated by plot.py at 2017-09-23 07:13:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 55.619 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 55.619 ms
Loss rate: 0.08%
```
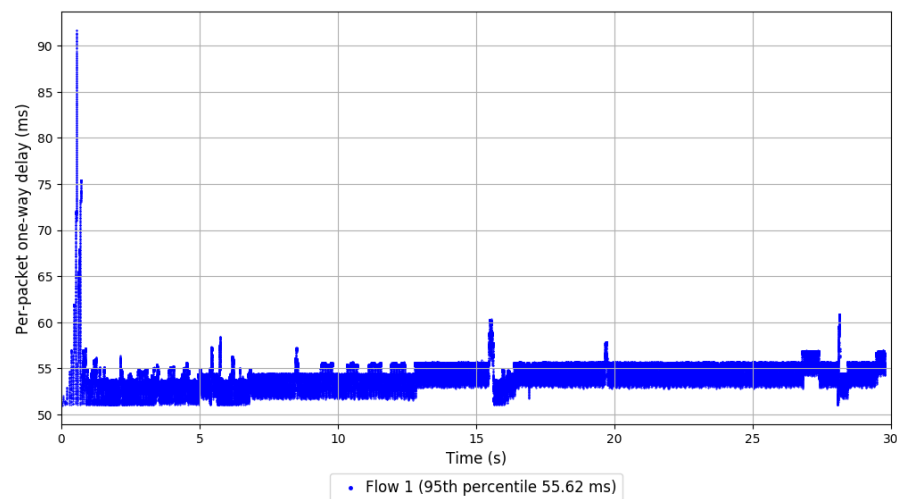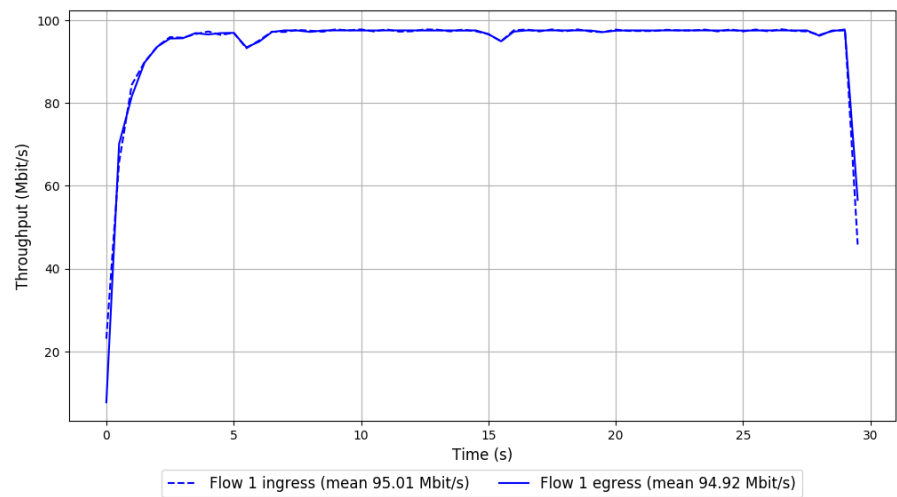
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2017-09-23 04:15:47
End at: 2017-09-23 04:16:17
Local clock offset: -0.883 ms
Remote clock offset: 0.832 ms


# Below is generated by plot.py at 2017-09-23 07:14:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 55.855 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.35 Mbit/s
95th percentile per-packet one-way delay: 55.855 ms
Loss rate: 0.11%
```
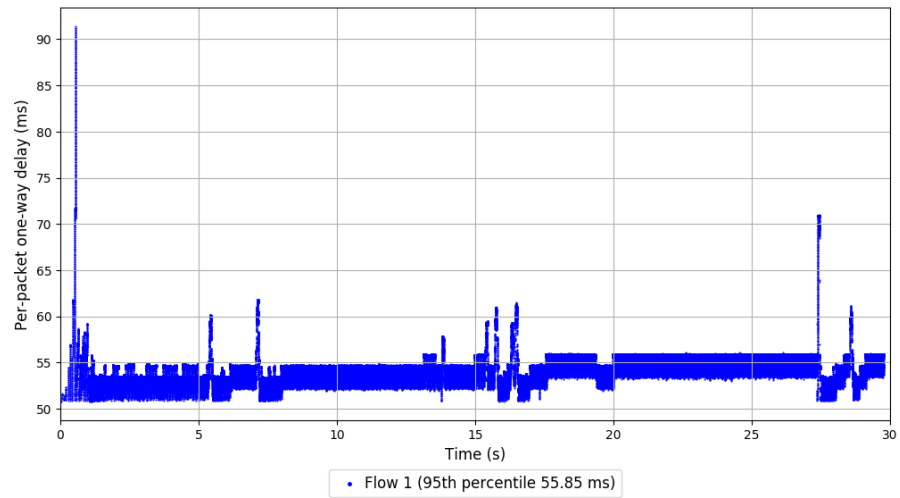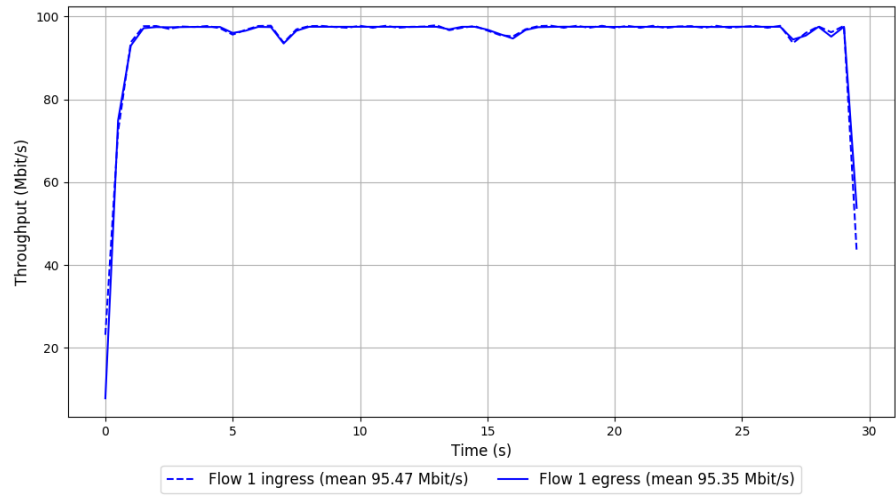
Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2017-09-23 04:34:52
End at: 2017-09-23 04:35:22
Local clock offset: -0.868 ms
Remote clock offset: 0.838 ms

# Below is generated by plot.py at 2017-09-23 07:14:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 56.097 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 56.097 ms
Loss rate: 0.12%
```
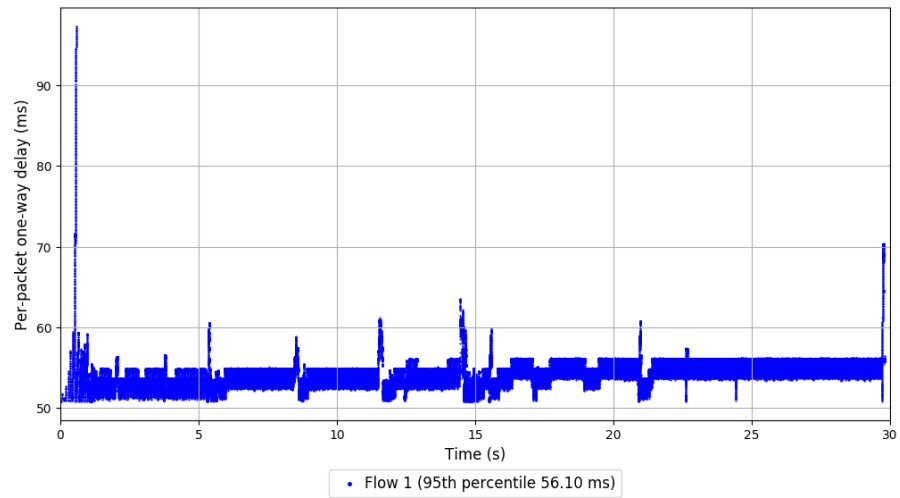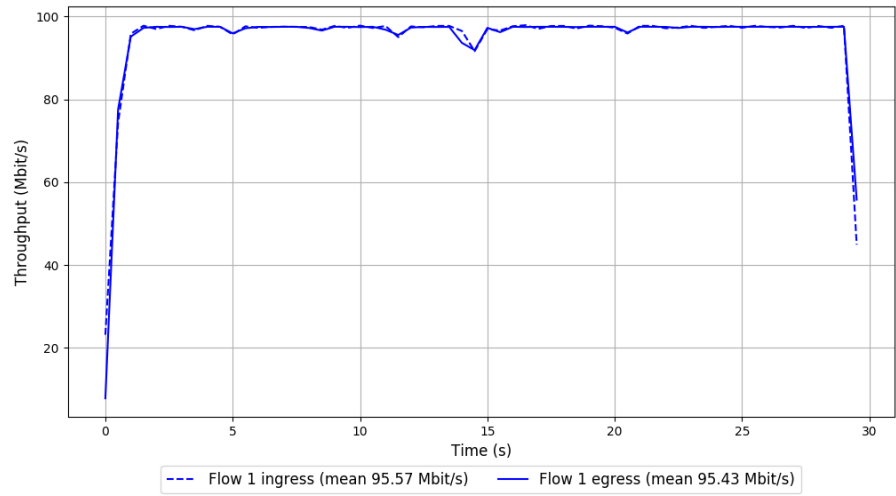
Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2017-09-23 04:53:48
End at: 2017-09-23 04:54:18
Local clock offset: -0.885 ms
Remote clock offset: 0.02 ms


# Below is generated by plot.py at 2017-09-23 07:14:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 55.516 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 55.516 ms
Loss rate: 0.06%
```
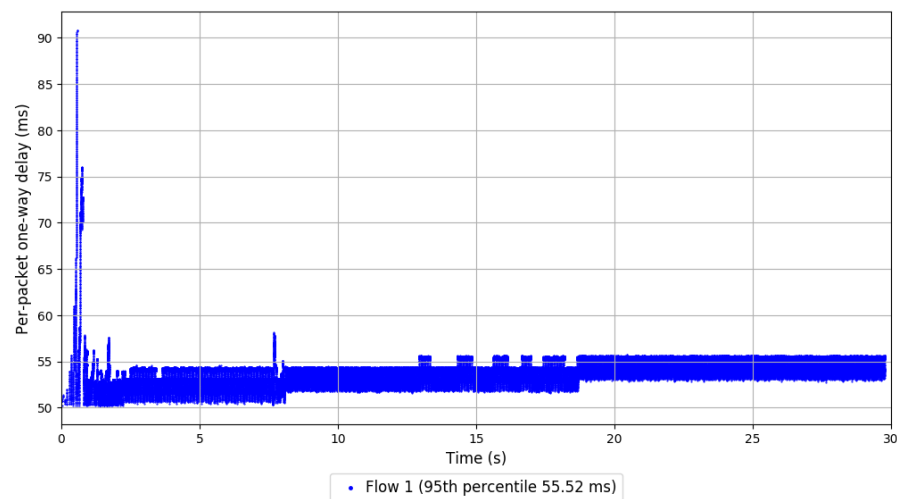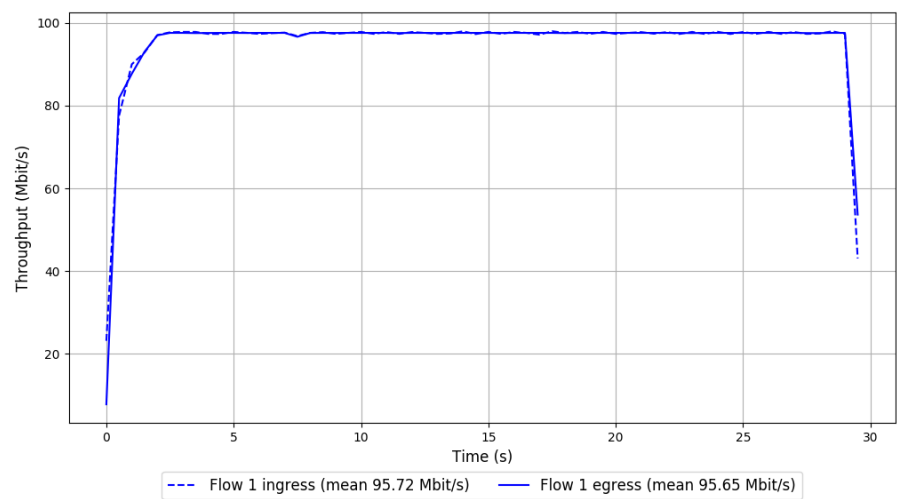
Run 5: Report of Indigo — Data Link

Flow 1 ingress (mean 95.72 Mbit/s) ----- Flow 1 egress (mean 95.65 Mbit/s)

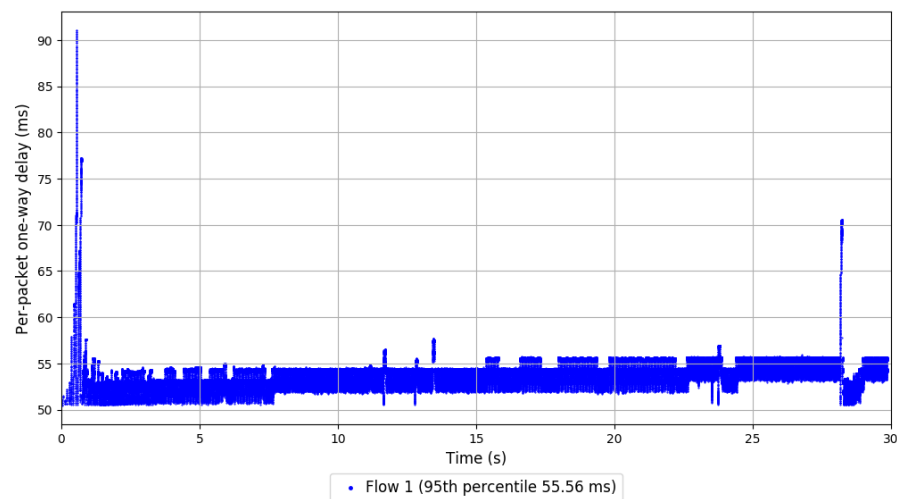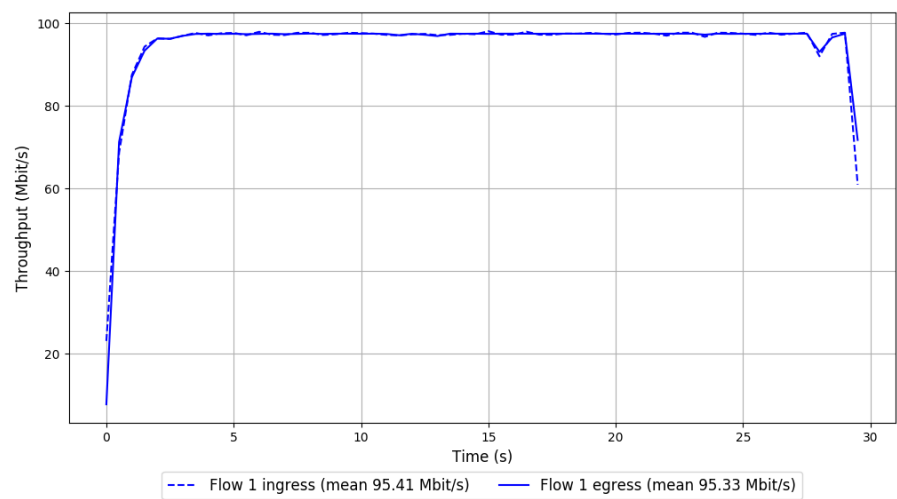Flow 1 (95th percentile 55.52 ms)

```
Run 6: Statistics of Indigo

Start at: 2017-09-23 05:12:38
End at: 2017-09-23 05:13:08
Local clock offset: -0.863 ms
Remote clock offset: -0.191 ms


# Below is generated by plot.py at 2017-09-23 07:14:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 55.561 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 55.561 ms
Loss rate: 0.07%
```

Run 6: Report of Indigo — Data Link

Flow 1 ingress (mean 95.41 Mbit/s) ——— Flow 1 egress (mean 95.33 Mbit/s)

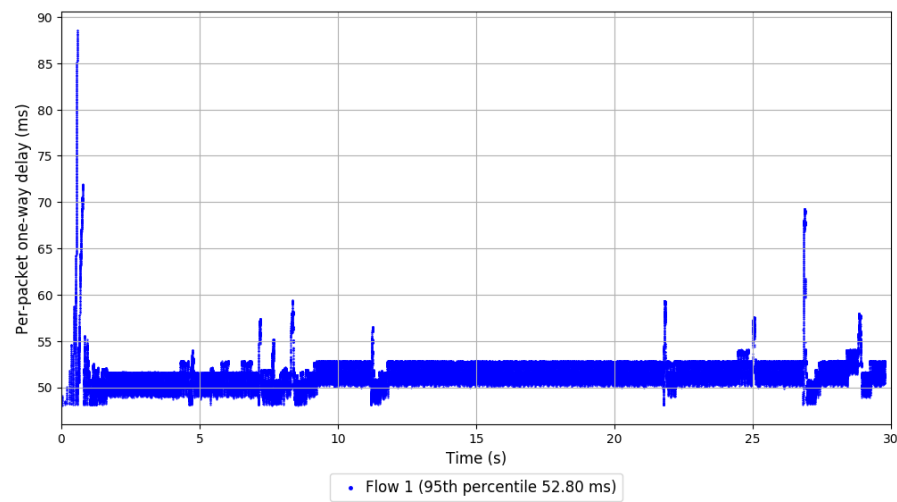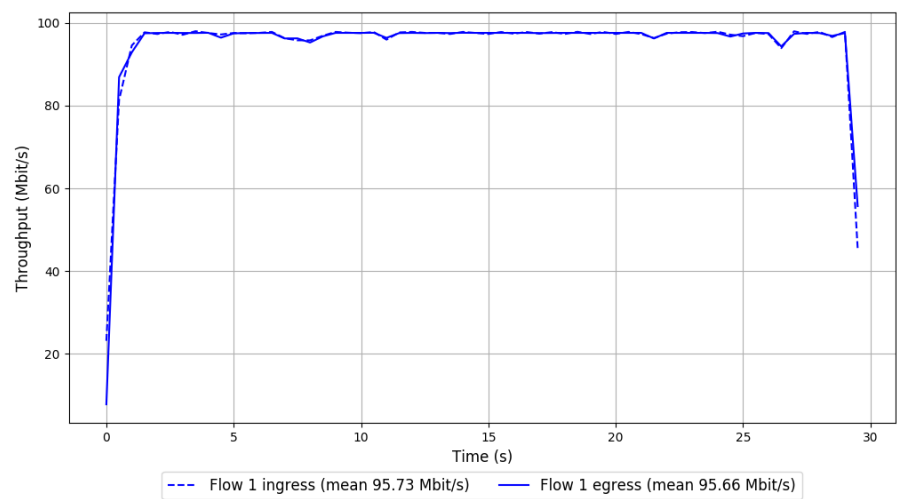• Flow 1 (95th percentile 55.56 ms)

```
Run 7: Statistics of Indigo

Start at: 2017-09-23 05:31:32
End at: 2017-09-23 05:32:02
Local clock offset: -0.645 ms
Remote clock offset: -2.709 ms


# Below is generated by plot.py at 2017-09-23 07:14:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 52.796 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.66 Mbit/s
95th percentile per-packet one-way delay: 52.796 ms
Loss rate: 0.06%
```

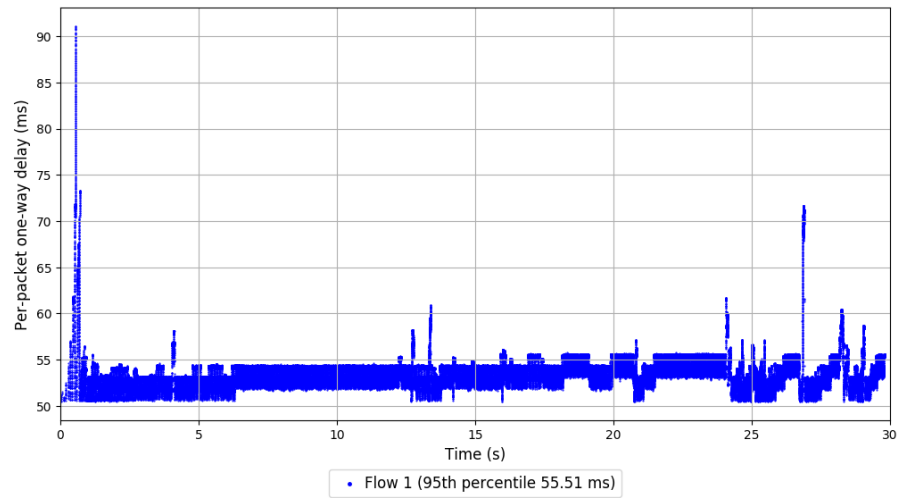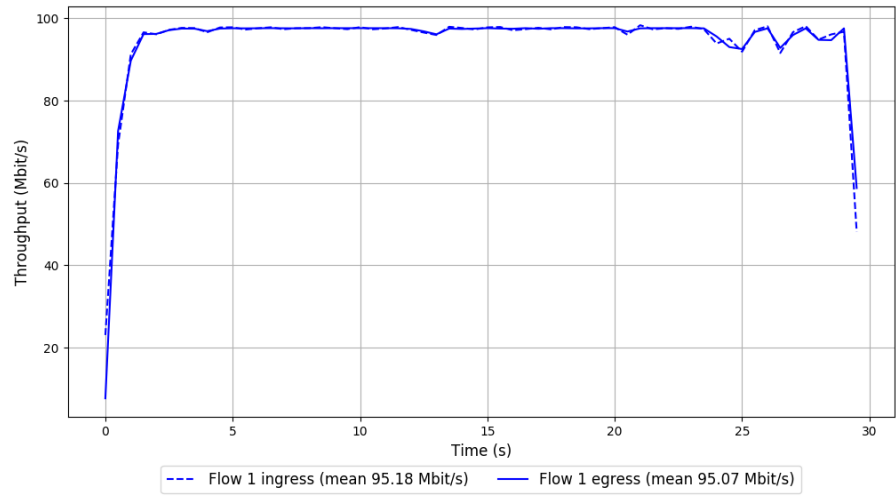Run 7: Report of Indigo — Data Link

```
Run 8: Statistics of Indigo

Start at: 2017-09-23 05:50:29
End at: 2017-09-23 05:50:59
Local clock offset: -0.948 ms
Remote clock offset: -0.644 ms


# Below is generated by plot.py at 2017-09-23 07:14:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 55.506 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.07 Mbit/s
95th percentile per-packet one-way delay: 55.506 ms
Loss rate: 0.09%
```

Run 8: Report of Indigo — Data Link

Flow 1 ingress (mean 95.18 Mbit/s)   Flow 1 egress (mean 95.07 Mbit/s)

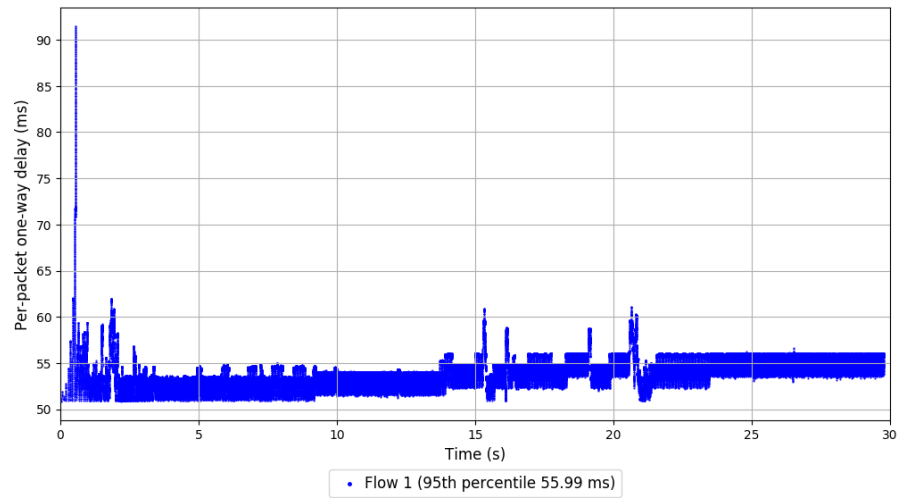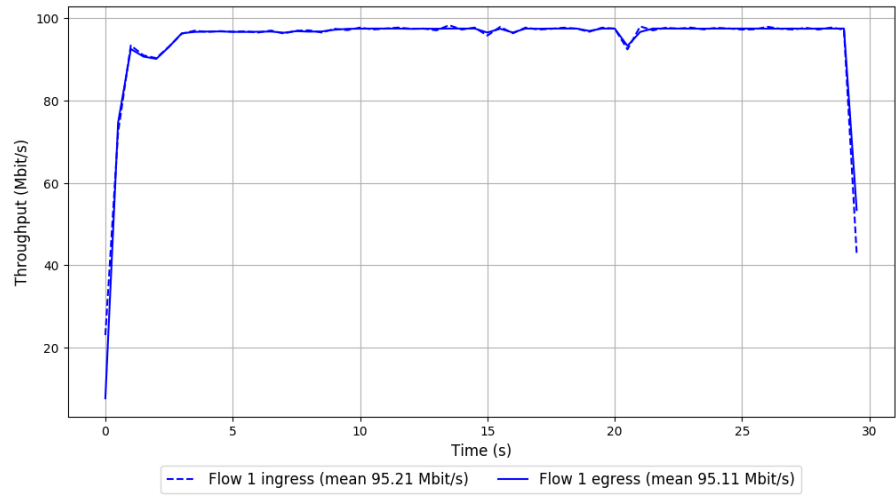• Flow 1 (95th percentile 55.51 ms)

```
Run 9: Statistics of Indigo

Start at: 2017-09-23 06:09:23
End at: 2017-09-23 06:09:54
Local clock offset: -0.836 ms
Remote clock offset: -0.073 ms


# Below is generated by plot.py at 2017-09-23 07:15:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 55.989 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 55.989 ms
Loss rate: 0.08%
```

Run 9: Report of Indigo — Data Link

Flow 1 ingress (mean 95.21 Mbit/s)   Flow 1 egress (mean 95.11 Mbit/s)

Flow 1 (95th percentile 55.99 ms)

```
Run 10: Statistics of Indigo

Start at: 2017-09-23 06:28:13
End at: 2017-09-23 06:28:43
Local clock offset: -1.221 ms
Remote clock offset: -2.313 ms


# Below is generated by plot.py at 2017-09-23 07:15:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 53.053 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 53.053 ms
Loss rate: 0.24%
```
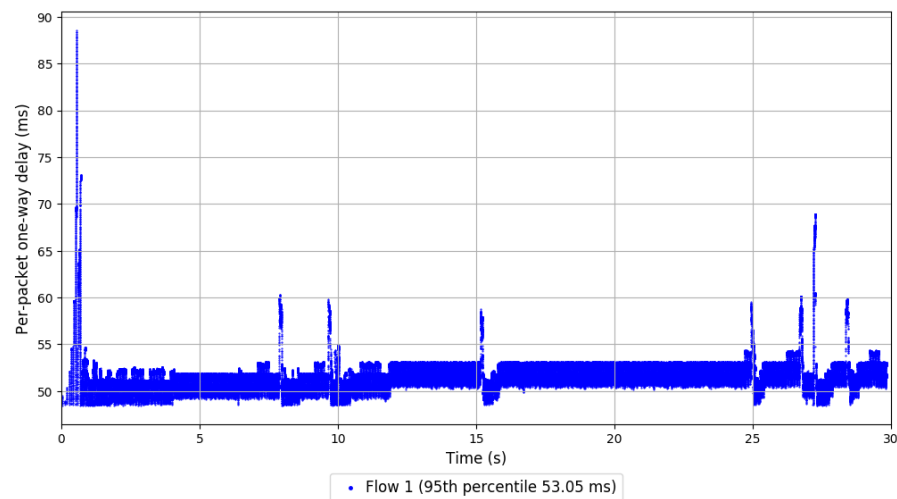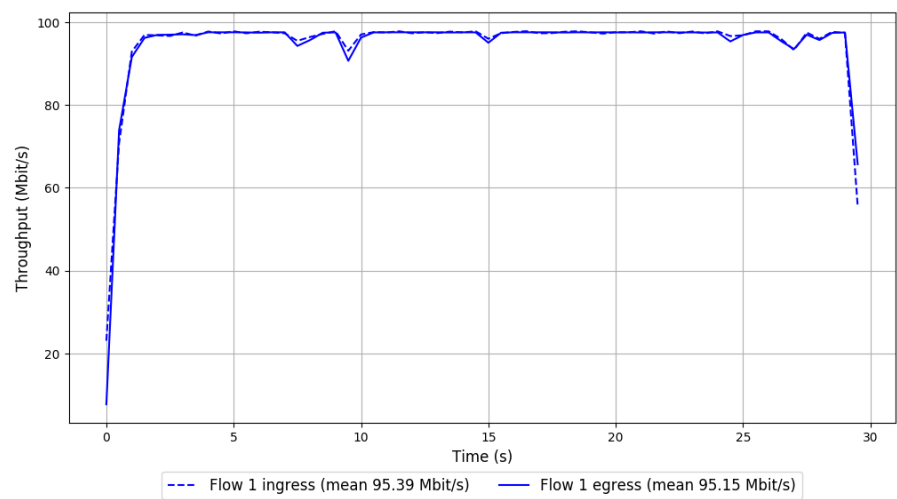
Run 10: Report of Indigo — Data Link

Flow 1 ingress (mean 95.39 Mbit/s) --- Flow 1 egress (mean 95.15 Mbit/s)

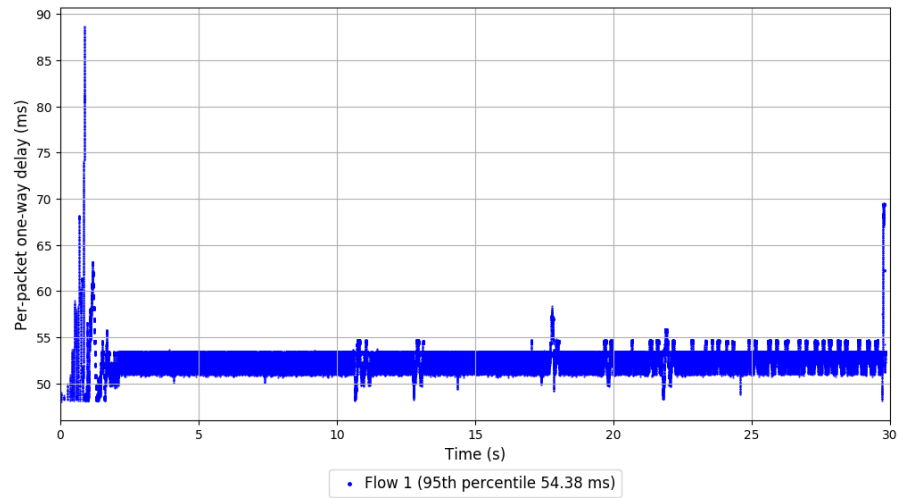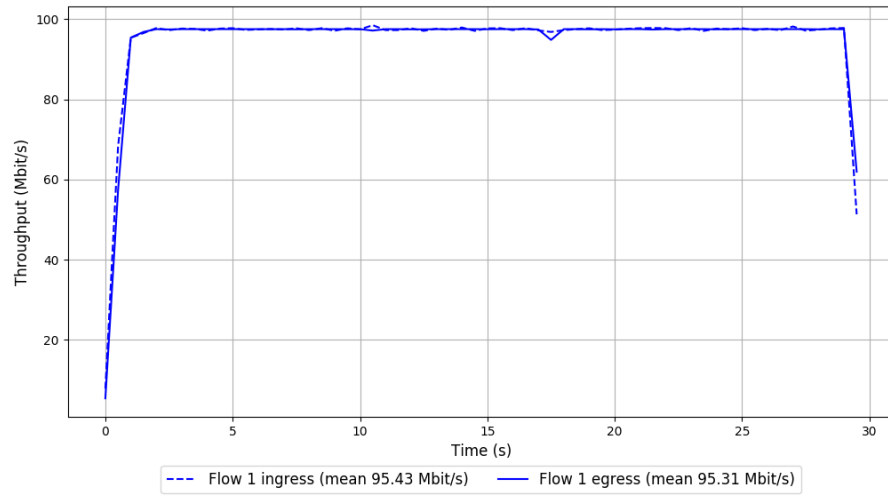- Flow 1 (95th percentile 53.05 ms)

```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-23 03:36:52
End at: 2017-09-23 03:37:22
Local clock offset: -2.684 ms
Remote clock offset: -1.242 ms


# Below is generated by plot.py at 2017-09-23 07:15:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 54.378 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 54.378 ms
Loss rate: 0.11%
```

Run 1: Report of Indigo-calib — Data Link

Flow 1 ingress (mean 95.43 Mbit/s)   Flow 1 egress (mean 95.31 Mbit/s)
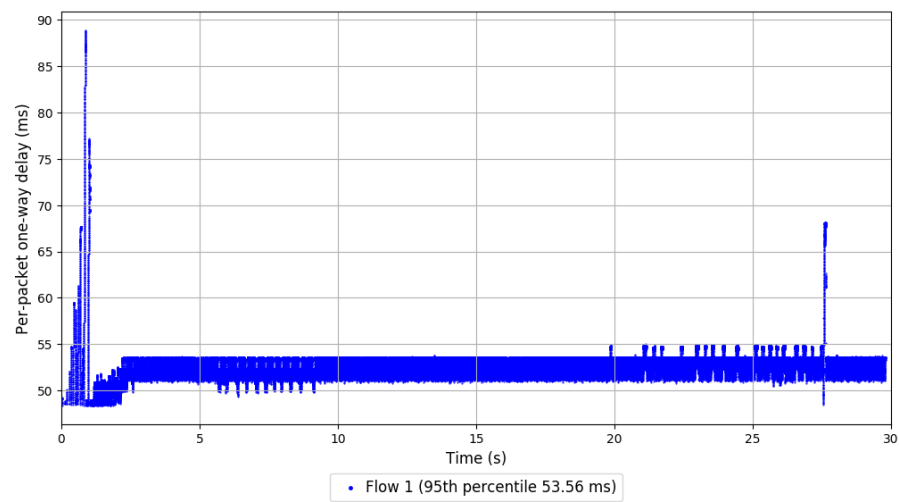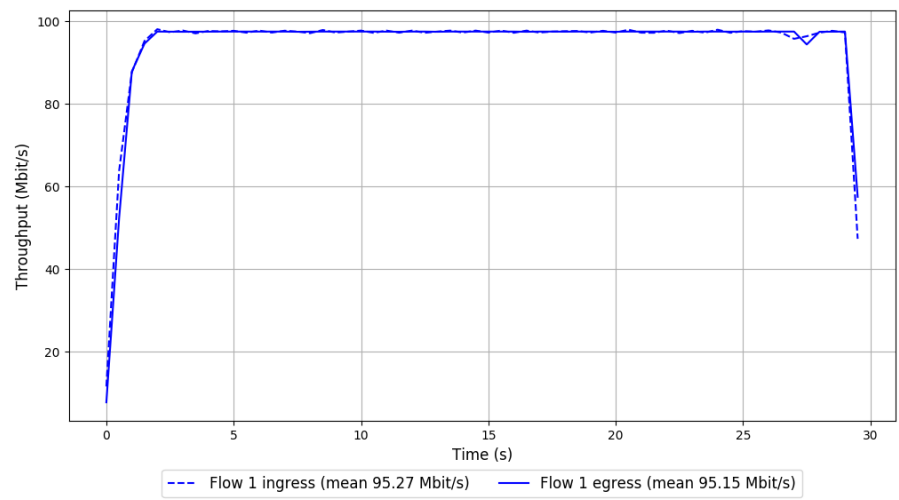

• Flow 1 (95th percentile 54.38 ms)

```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-23 03:55:37
End at: 2017-09-23 03:56:07
Local clock offset: -1.867 ms
Remote clock offset: -1.563 ms


# Below is generated by plot.py at 2017-09-23 07:15:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 53.556 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 53.556 ms
Loss rate: 0.11%
```

Run 2: Report of Indigo-calib — Data Link

```
Run 3: Statistics of Indigo-calib

Start at: 2017-09-23 04:14:24
End at: 2017-09-23 04:14:54
Local clock offset: -0.884 ms
Remote clock offset: -1.588 ms


# Below is generated by plot.py at 2017-09-23 07:15:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 53.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 53.465 ms
Loss rate: 0.00%
```
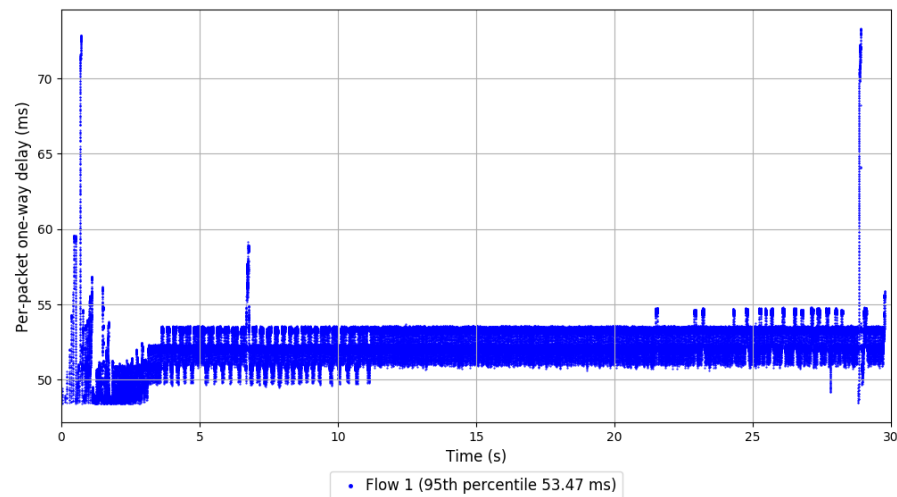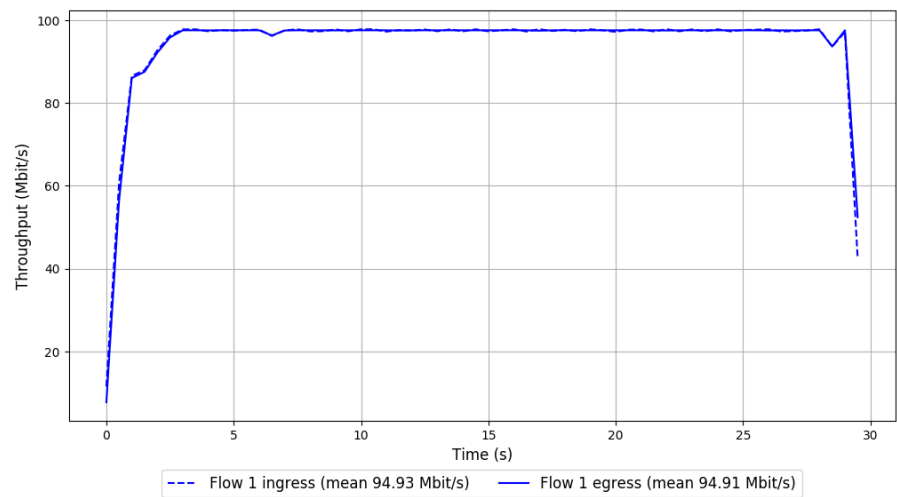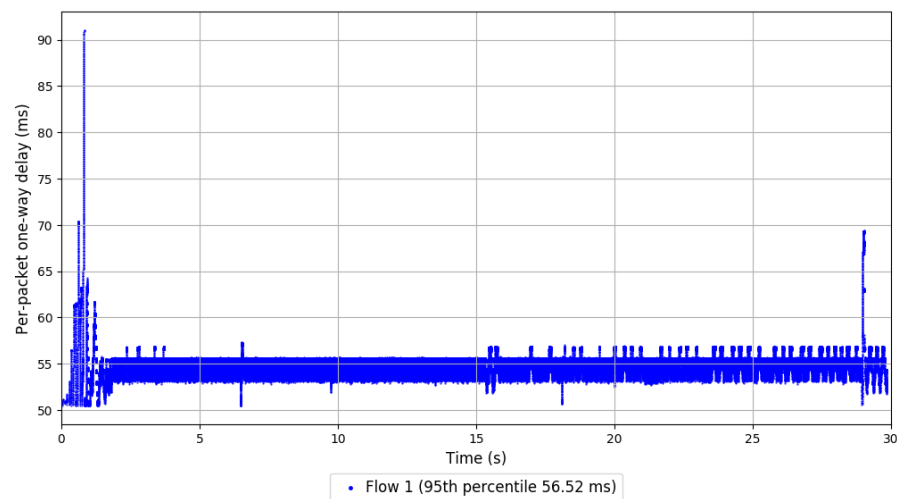
Run 3: Report of Indigo-calib — Data Link

Flow 1 ingress (mean 94.93 Mbit/s) — — — Flow 1 egress (mean 94.91 Mbit/s)

• Flow 1 (95th percentile 53.47 ms)

```
Run 4: Statistics of Indigo-calib

Start at: 2017-09-23 04:33:26
End at: 2017-09-23 04:33:56
Local clock offset: -0.776 ms
Remote clock offset: 0.406 ms


# Below is generated by plot.py at 2017-09-23 07:16:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 56.518 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 95.57 Mbit/s
95th percentile per-packet one-way delay: 56.518 ms
Loss rate: 0.06%
```
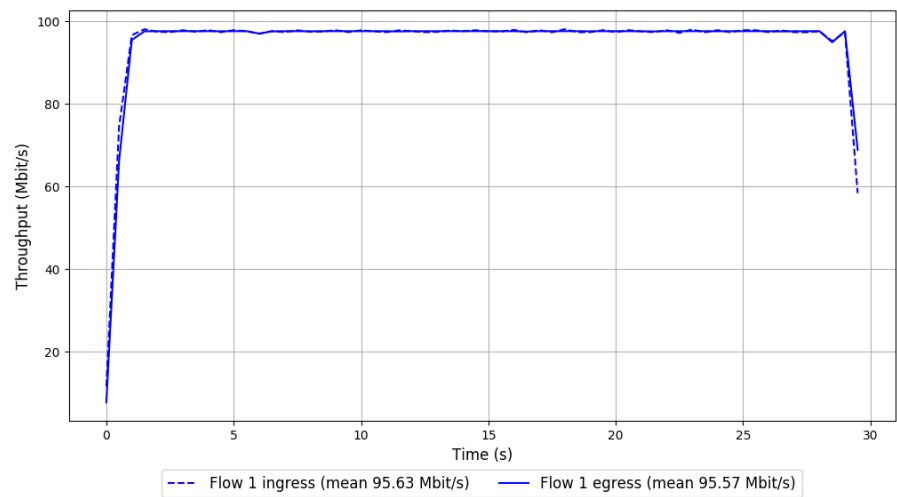
Run 4: Report of Indigo-calib — Data Link

Flow 1 ingress (mean 95.63 Mbit/s)   Flow 1 egress (mean 95.57 Mbit/s)
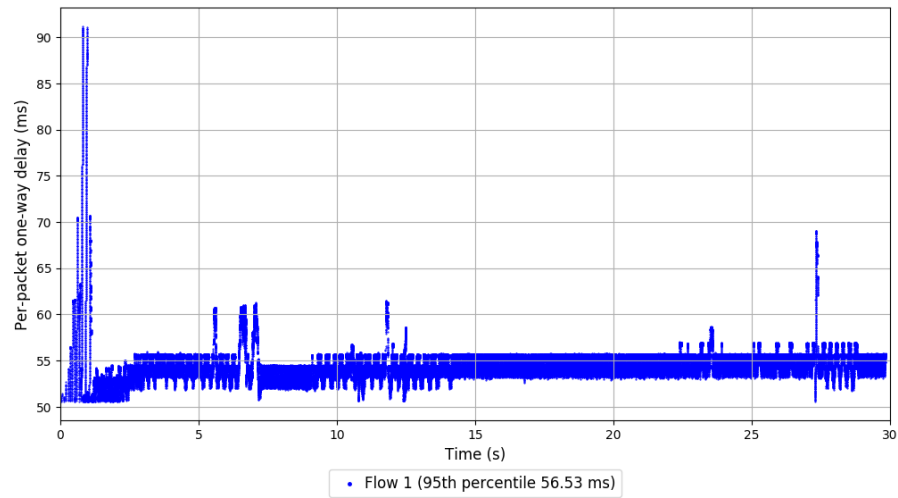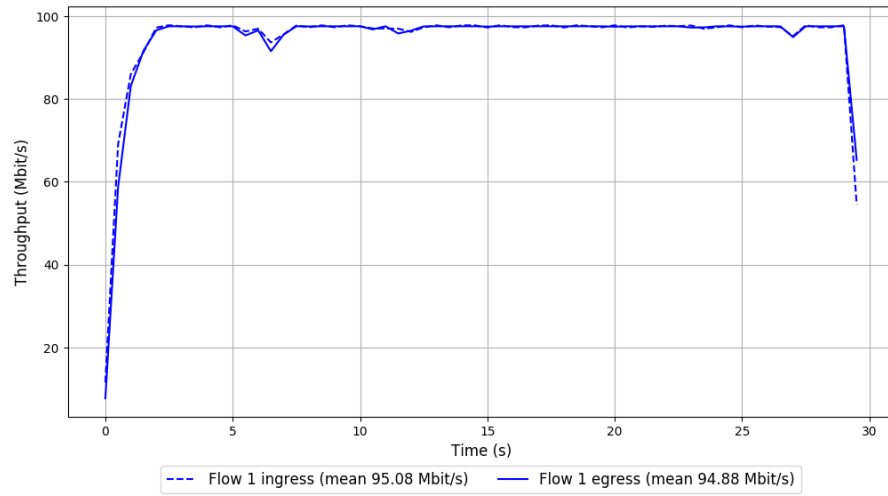

Flow 1 (95th percentile 56.52 ms)

```
Run 5: Statistics of Indigo-calib

Start at: 2017-09-23 04:52:24
End at: 2017-09-23 04:52:54
Local clock offset: -0.974 ms
Remote clock offset: 0.038 ms


# Below is generated by plot.py at 2017-09-23 07:16:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 56.527 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 94.88 Mbit/s
95th percentile per-packet one-way delay: 56.527 ms
Loss rate: 0.20%
```

Run 5: Report of Indigo-calib — Data Link

Flow 1 ingress (mean 95.08 Mbit/s)   Flow 1 egress (mean 94.88 Mbit/s)
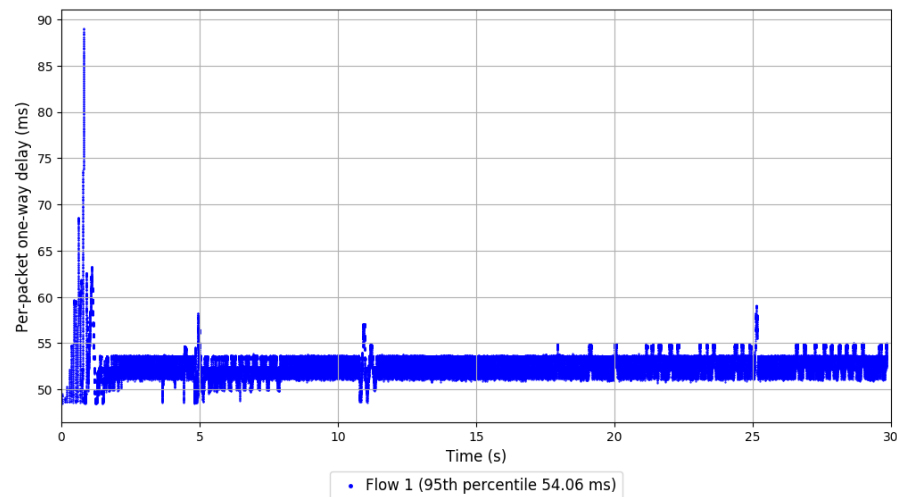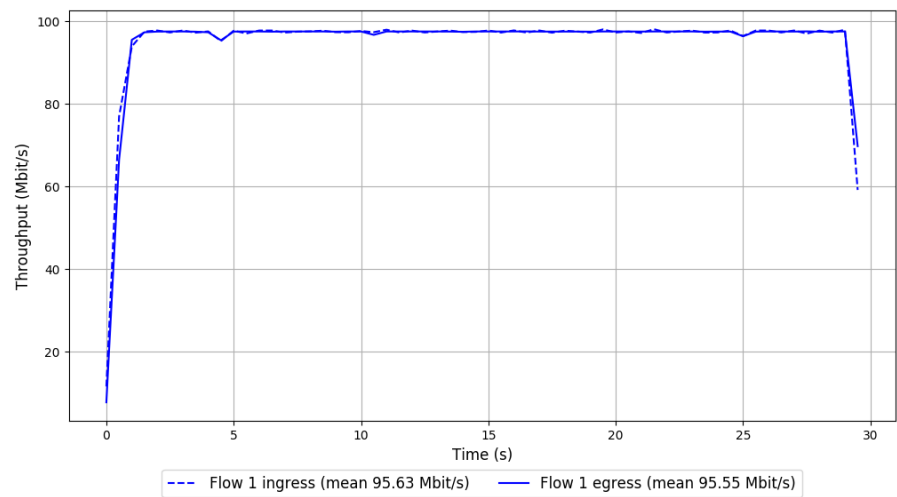

Flow 1 (95th percentile 56.53 ms)

```
Run 6: Statistics of Indigo-calib

Start at: 2017-09-23 05:11:14
End at: 2017-09-23 05:11:44
Local clock offset: -0.845 ms
Remote clock offset: -2.136 ms


# Below is generated by plot.py at 2017-09-23 07:16:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 54.063 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 95.55 Mbit/s
95th percentile per-packet one-way delay: 54.063 ms
Loss rate: 0.07%
```

Run 6: Report of Indigo-calib — Data Link

Flow 1 ingress (mean 95.63 Mbit/s) --- Flow 1 egress (mean 95.55 Mbit/s)
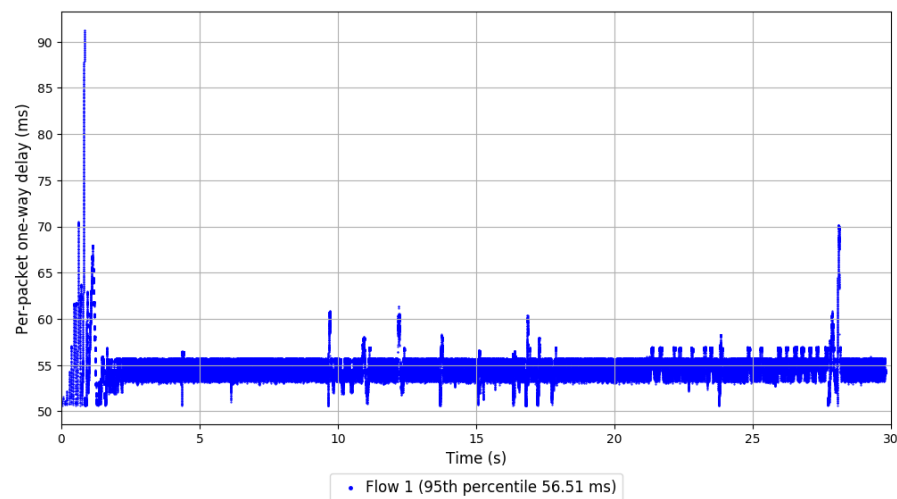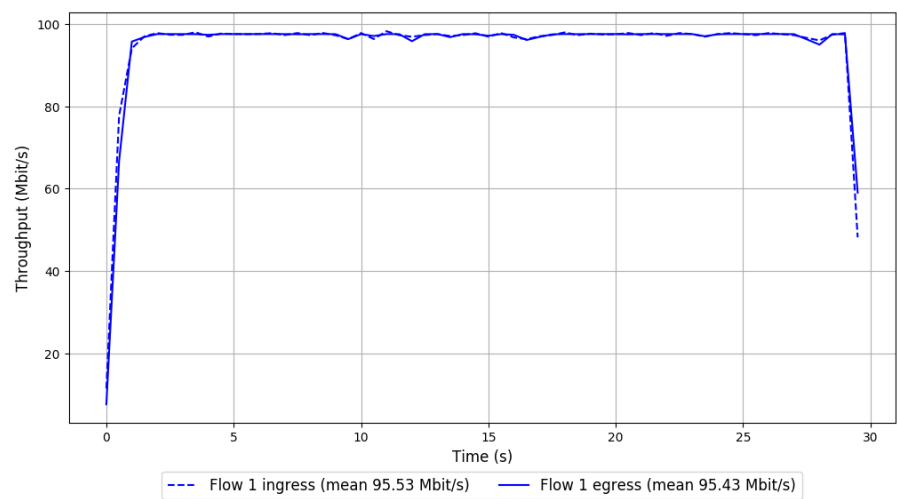

• Flow 1 (95th percentile 54.06 ms)

```
Run 7: Statistics of Indigo-calib

Start at: 2017-09-23 05:30:09
End at: 2017-09-23 05:30:39
Local clock offset: -0.741 ms
Remote clock offset: -0.462 ms


# Below is generated by plot.py at 2017-09-23 07:16:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 56.513 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 95.43 Mbit/s
95th percentile per-packet one-way delay: 56.513 ms
Loss rate: 0.09%
```
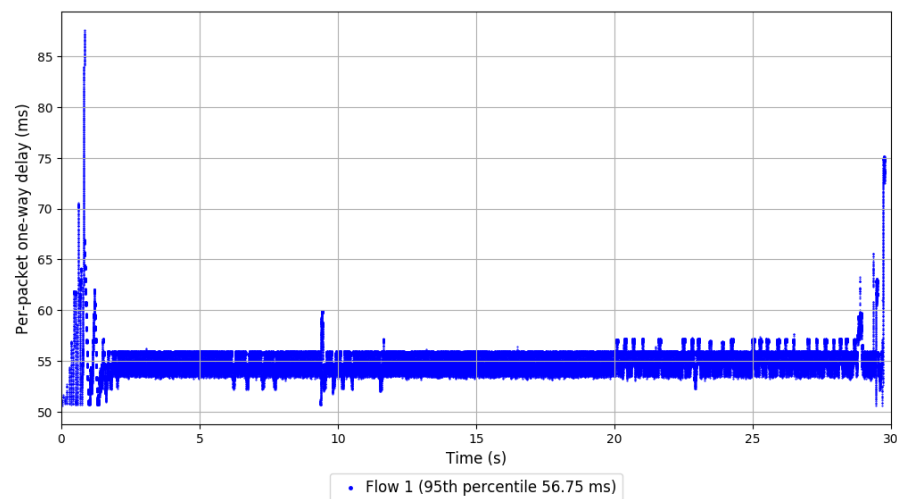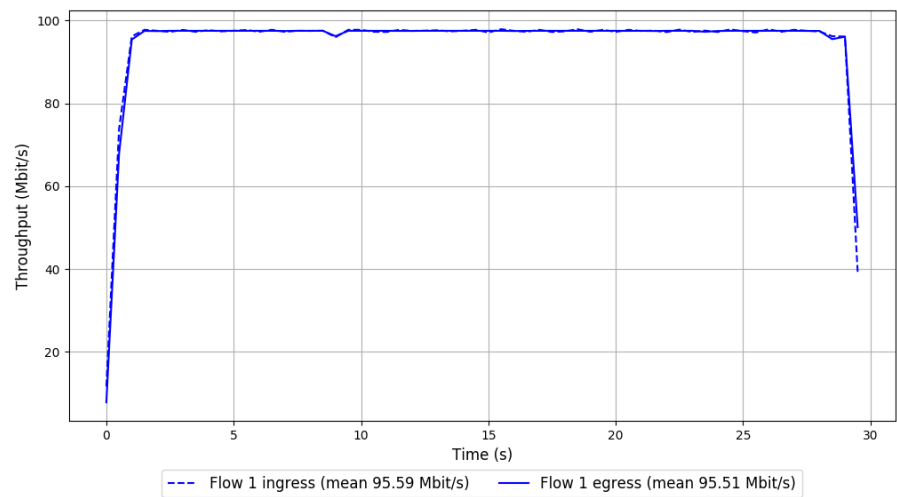
Run 7: Report of Indigo-calib — Data Link

```
Run 8: Statistics of Indigo-calib

Start at: 2017-09-23 05:49:04
End at: 2017-09-23 05:49:34
Local clock offset: -0.899 ms
Remote clock offset: -0.235 ms


# Below is generated by plot.py at 2017-09-23 07:16:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 56.749 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.51 Mbit/s
95th percentile per-packet one-way delay: 56.749 ms
Loss rate: 0.01%
```
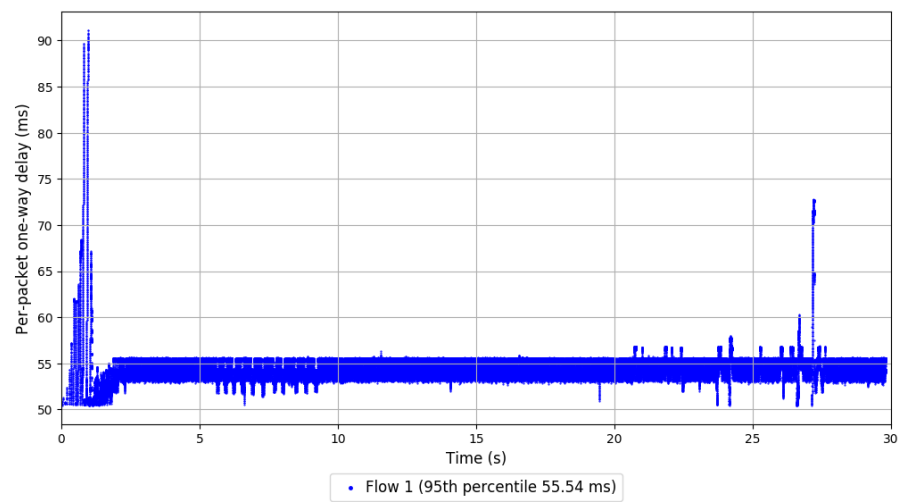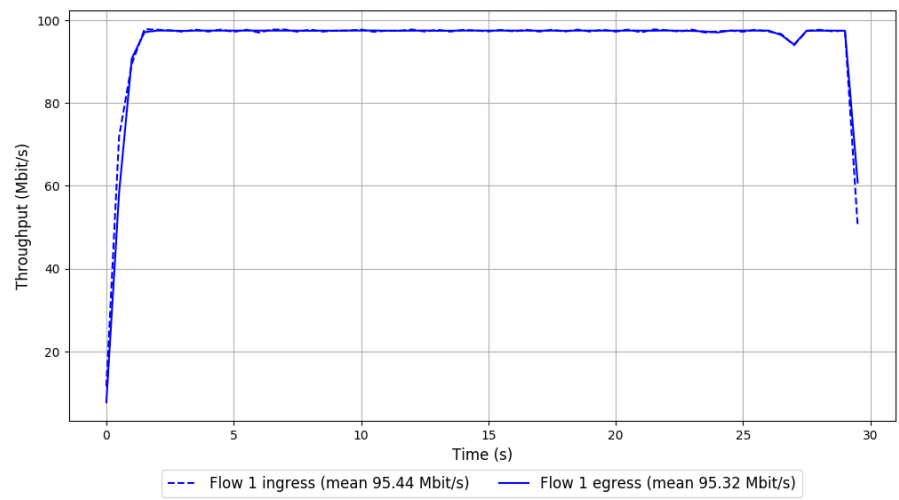
Run 8: Report of Indigo-calib — Data Link

```
Run 9: Statistics of Indigo-calib

Start at: 2017-09-23 06:08:00
End at: 2017-09-23 06:08:30
Local clock offset: -0.822 ms
Remote clock offset: -0.523 ms


# Below is generated by plot.py at 2017-09-23 07:16:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 55.537 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 55.537 ms
Loss rate: 0.11%
```
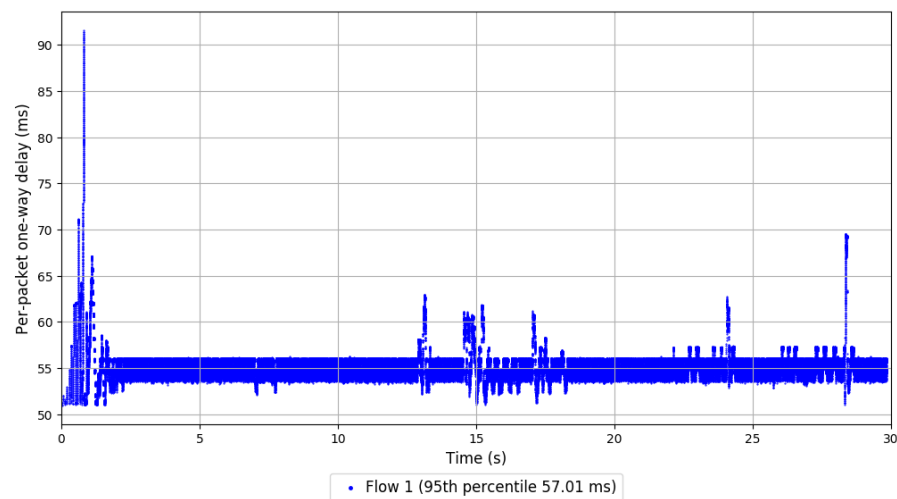
Run 9: Report of Indigo-calib — Data Link

Flow 1 ingress (mean 95.44 Mbit/s)   Flow 1 egress (mean 95.32 Mbit/s)

• Flow 1 (95th percentile 55.54 ms)

```
Run 10: Statistics of Indigo-calib

Start at: 2017-09-23 06:26:50
End at: 2017-09-23 06:27:20
Local clock offset: -1.128 ms
Remote clock offset: 0.24 ms


# Below is generated by plot.py at 2017-09-23 07:17:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 57.014 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.36 Mbit/s
95th percentile per-packet one-way delay: 57.014 ms
Loss rate: 0.13%
```
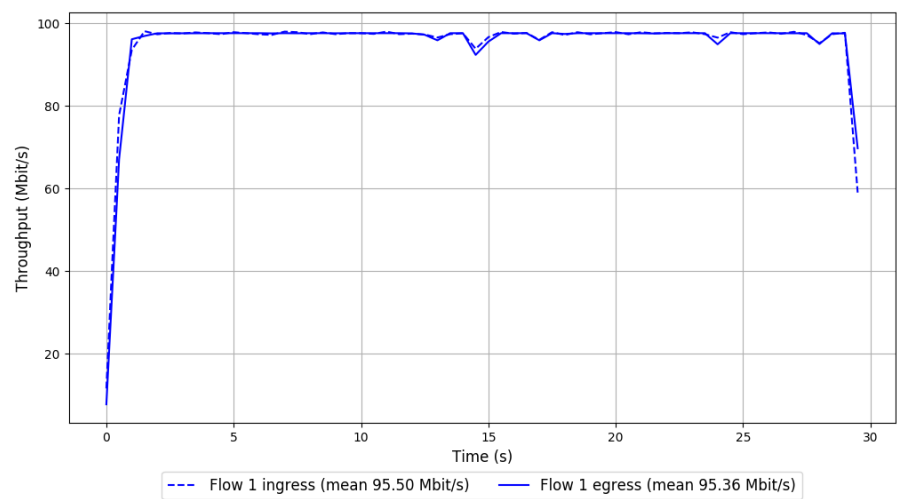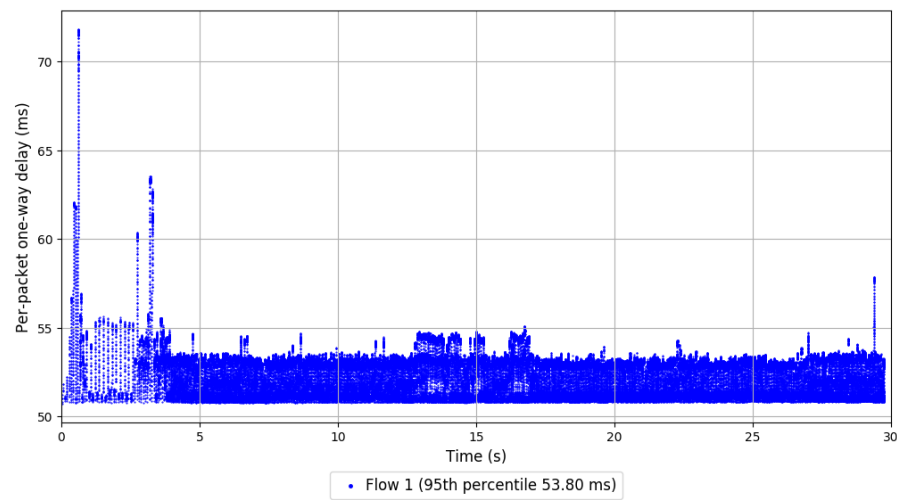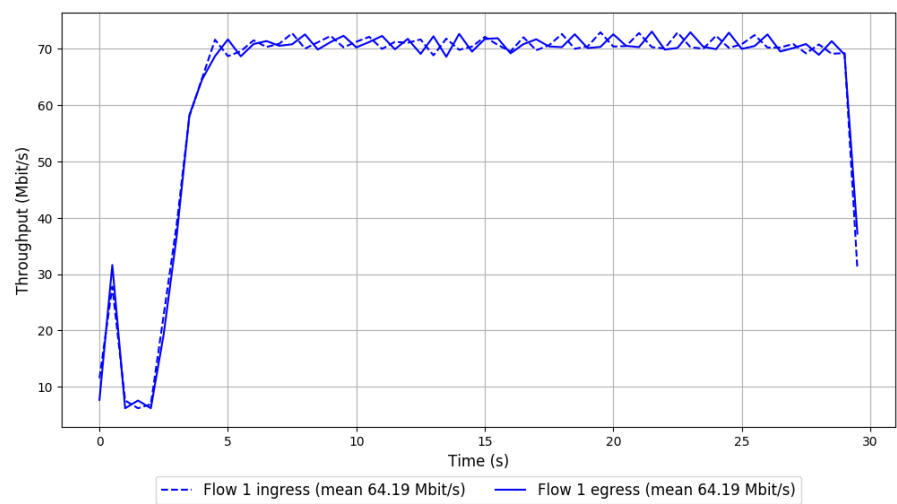
Run 10: Report of Indigo-calib — Data Link

```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-23 03:47:34
End at: 2017-09-23 03:48:04
Local clock offset: -2.592 ms
Remote clock offset: 1.157 ms


# Below is generated by plot.py at 2017-09-23 07:17:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.19 Mbit/s
95th percentile per-packet one-way delay: 53.800 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.19 Mbit/s
95th percentile per-packet one-way delay: 53.800 ms
Loss rate: 0.00%
```
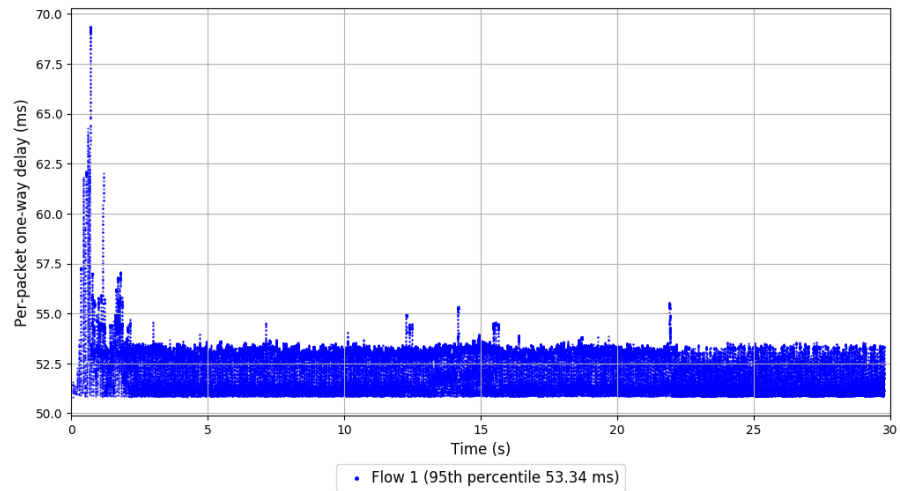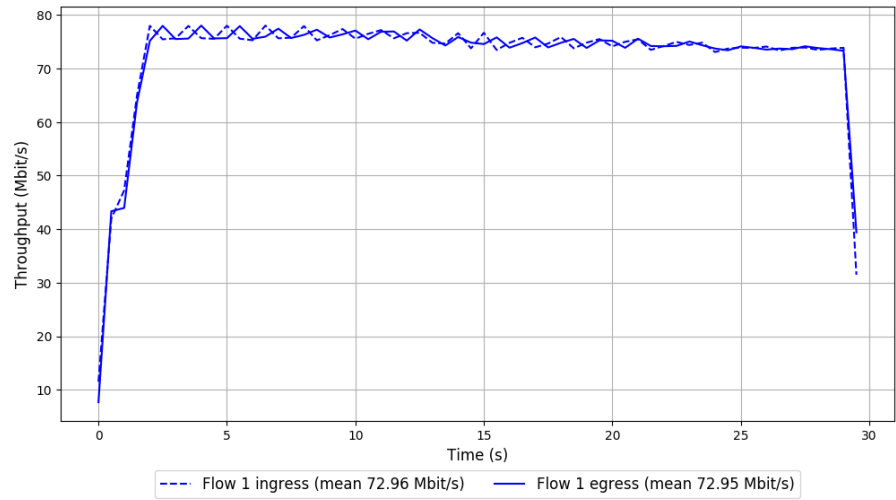
Run 1: Report of Indigo-delay — Data Link

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```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-23 04:06:20
End at: 2017-09-23 04:06:50
Local clock offset: -1.162 ms
Remote clock offset: 0.849 ms


# Below is generated by plot.py at 2017-09-23 07:17:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.95 Mbit/s
95th percentile per-packet one-way delay: 53.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.95 Mbit/s
95th percentile per-packet one-way delay: 53.342 ms
Loss rate: 0.00%
```
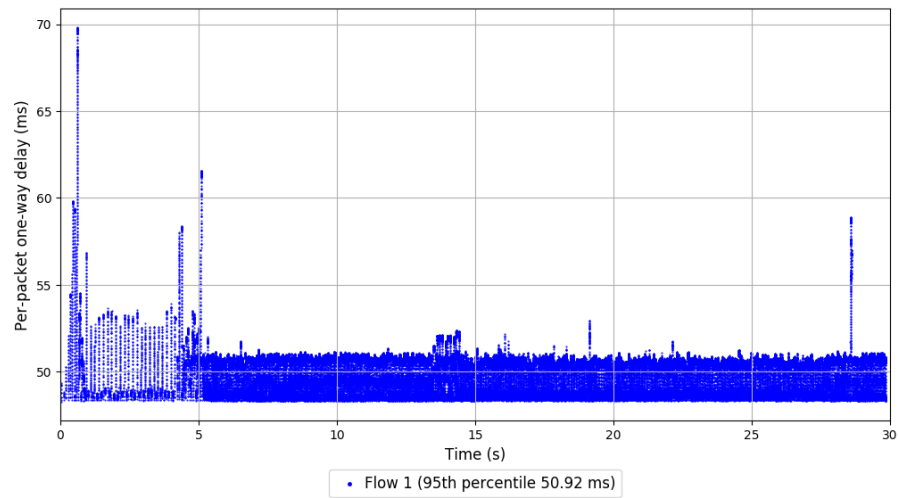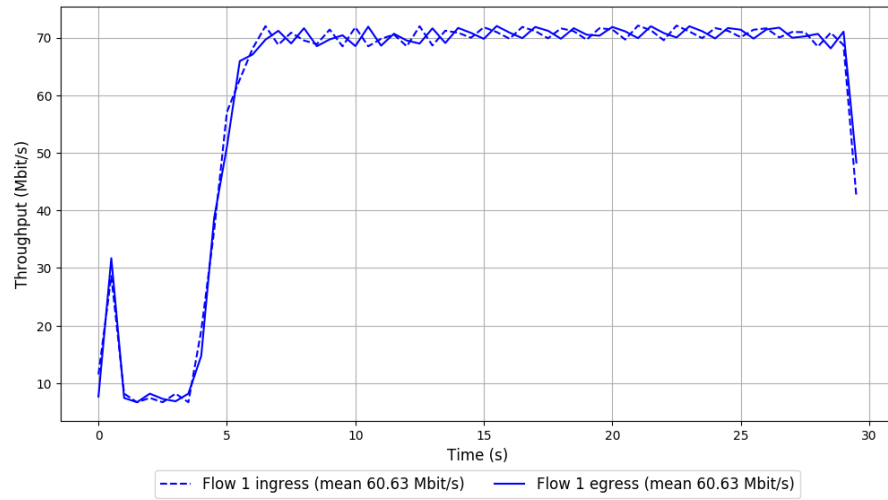
Run 2: Report of Indigo-delay — Data Link

```
Run 3: Statistics of Indigo-delay

Start at: 2017-09-23 04:25:09
End at: 2017-09-23 04:25:39
Local clock offset: -1.016 ms
Remote clock offset: -1.571 ms


# Below is generated by plot.py at 2017-09-23 07:17:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 50.918 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 50.918 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-delay — Data Link

```
Run 4: Statistics of Indigo-delay

Start at: 2017-09-23 04:44:19
End at: 2017-09-23 04:44:49
Local clock offset: -0.765 ms
Remote clock offset: 0.184 ms


# Below is generated by plot.py at 2017-09-23 07:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.47 Mbit/s
95th percentile per-packet one-way delay: 53.142 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 81.47 Mbit/s
95th percentile per-packet one-way delay: 53.142 ms
Loss rate: 0.04%
```
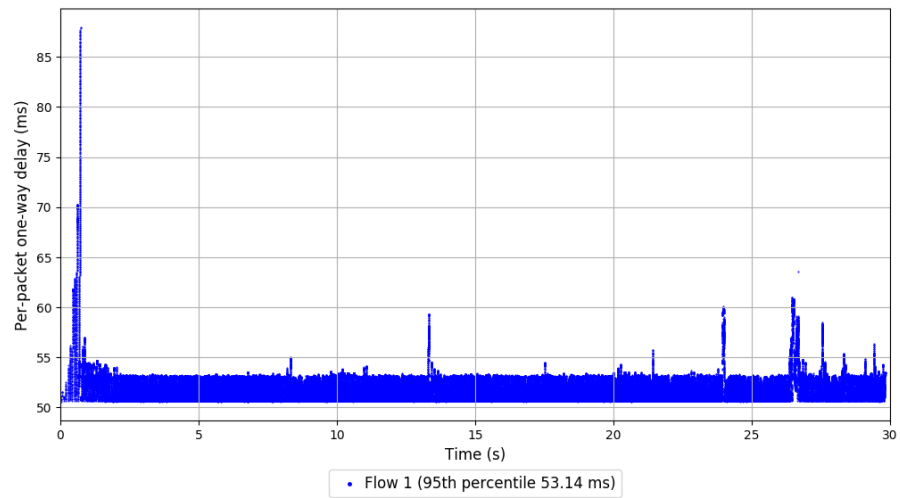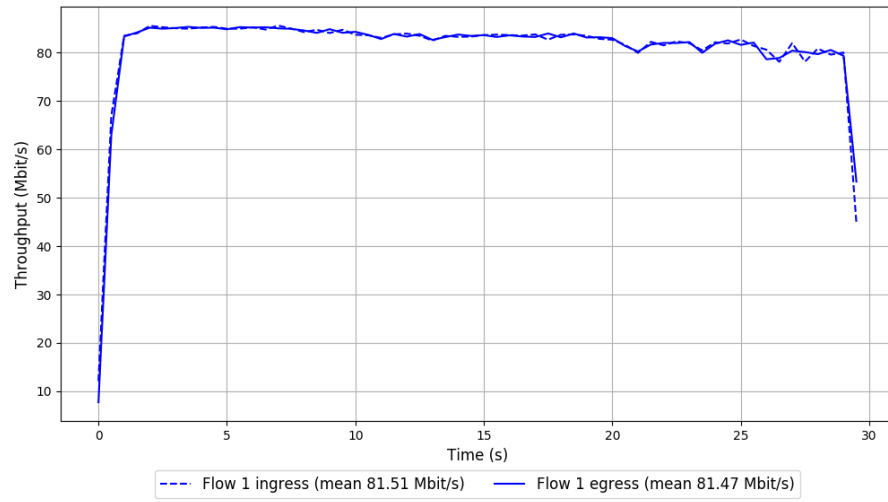
Run 4: Report of Indigo-delay — Data Link

```
Run 5: Statistics of Indigo-delay

Start at: 2017-09-23 05:03:07
End at: 2017-09-23 05:03:37
Local clock offset: -0.797 ms
Remote clock offset: 0.402 ms


# Below is generated by plot.py at 2017-09-23 07:17:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 54.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 54.333 ms
Loss rate: 0.00%
```
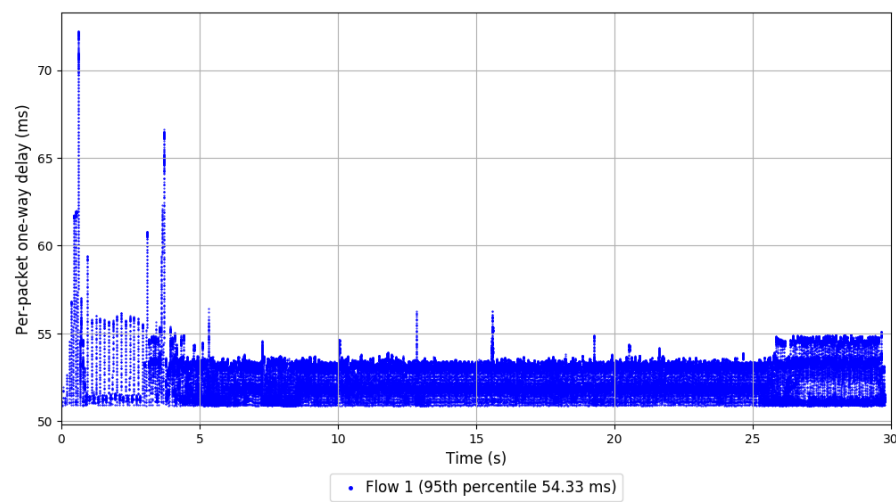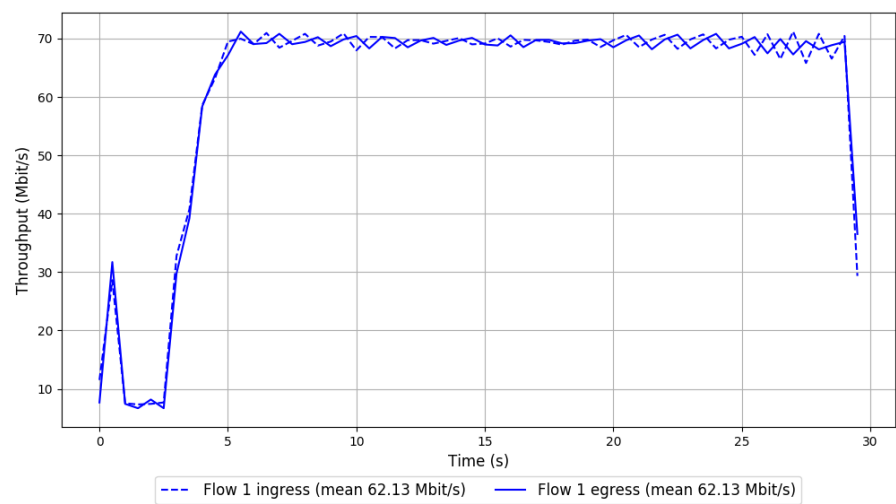
Run 5: Report of Indigo-delay — Data Link

```
Run 6: Statistics of Indigo-delay

Start at: 2017-09-23 05:22:04
End at: 2017-09-23 05:22:34
Local clock offset: -0.707 ms
Remote clock offset: 0.076 ms


# Below is generated by plot.py at 2017-09-23 07:17:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.83 Mbit/s
95th percentile per-packet one-way delay: 54.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.83 Mbit/s
95th percentile per-packet one-way delay: 54.382 ms
Loss rate: 0.00%
```
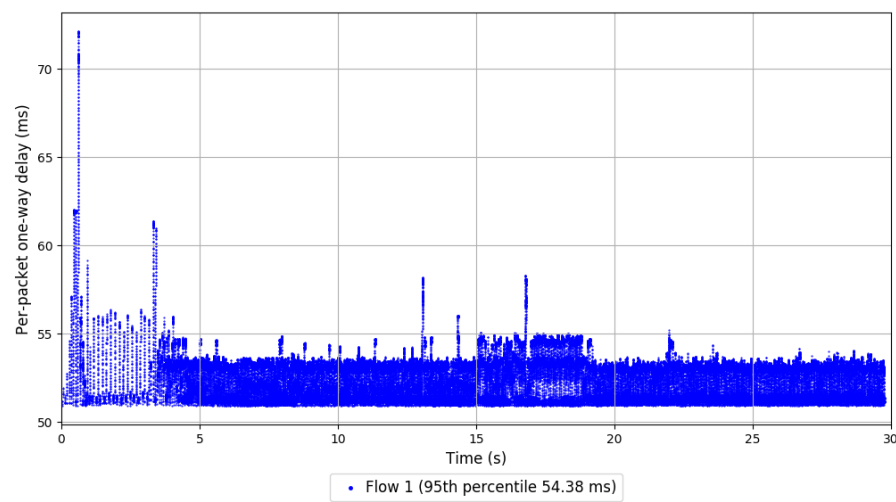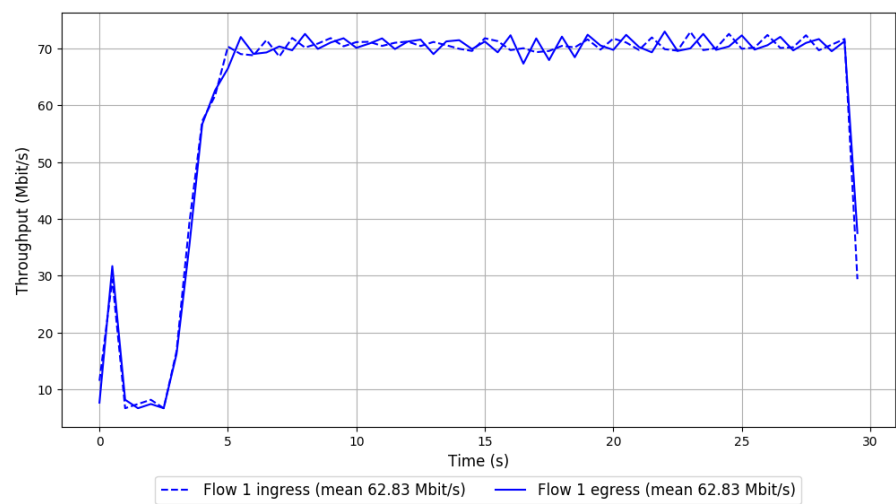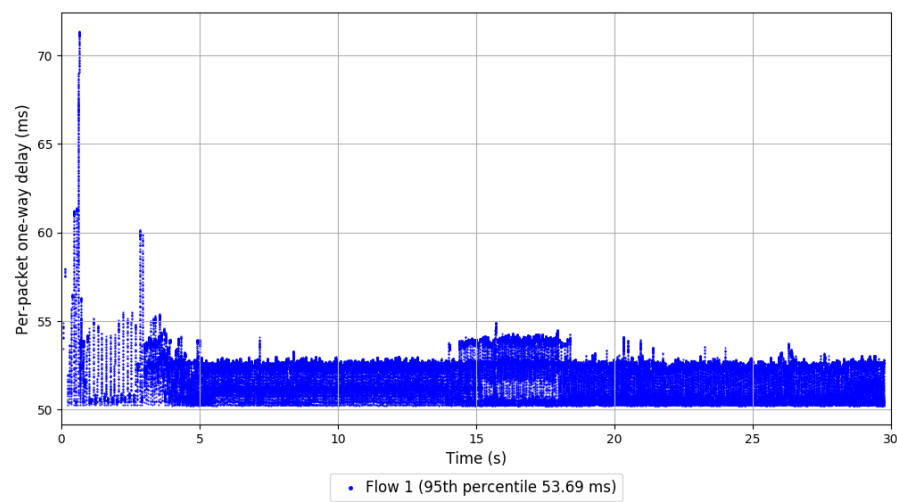
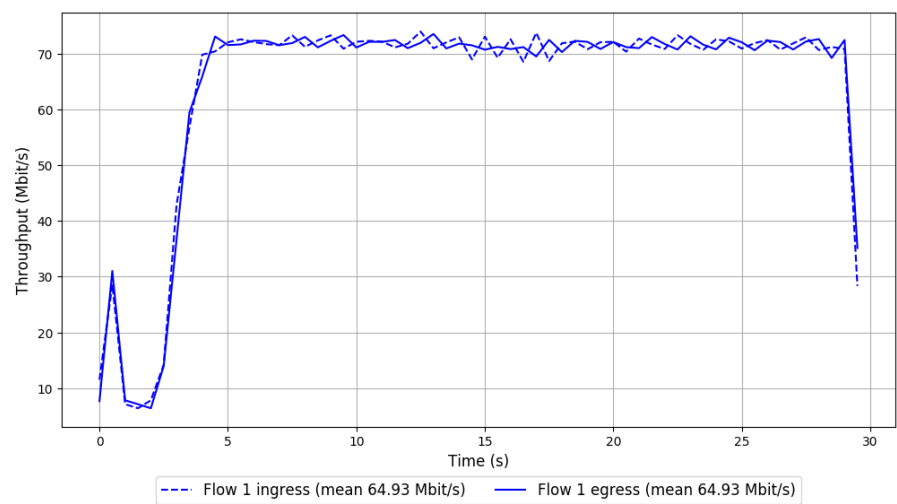Run 6: Report of Indigo-delay — Data Link

```
Run 7: Statistics of Indigo-delay

Start at: 2017-09-23 05:40:57
End at: 2017-09-23 05:41:27
Local clock offset: -0.593 ms
Remote clock offset: -0.564 ms


# Below is generated by plot.py at 2017-09-23 07:17:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.93 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.93 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.00%
```

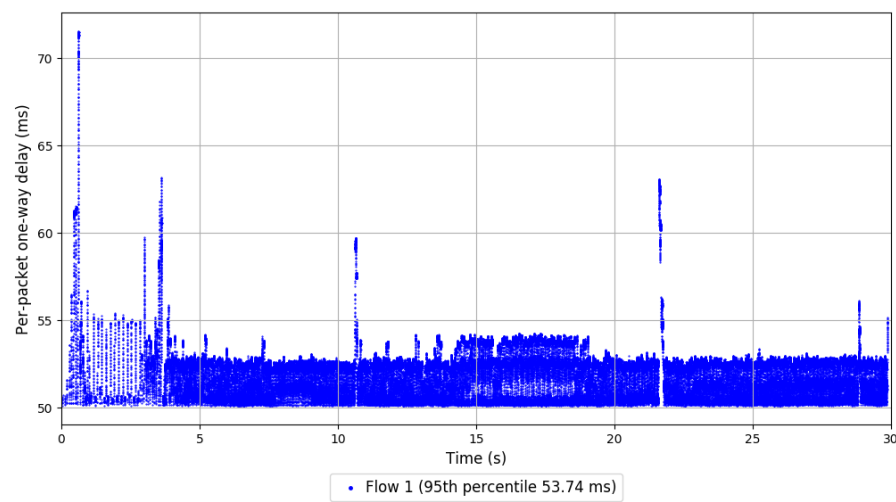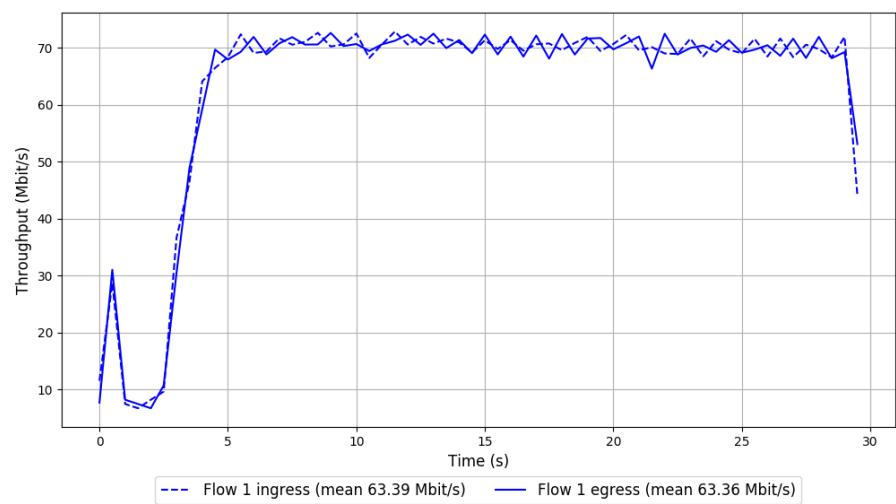Run 7: Report of Indigo-delay — Data Link

```
Run 8: Statistics of Indigo-delay

Start at: 2017-09-23 05:59:56
End at: 2017-09-23 06:00:26
Local clock offset: -0.896 ms
Remote clock offset: -0.658 ms


# Below is generated by plot.py at 2017-09-23 07:17:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.36 Mbit/s
95th percentile per-packet one-way delay: 53.743 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 63.36 Mbit/s
95th percentile per-packet one-way delay: 53.743 ms
Loss rate: 0.03%
```

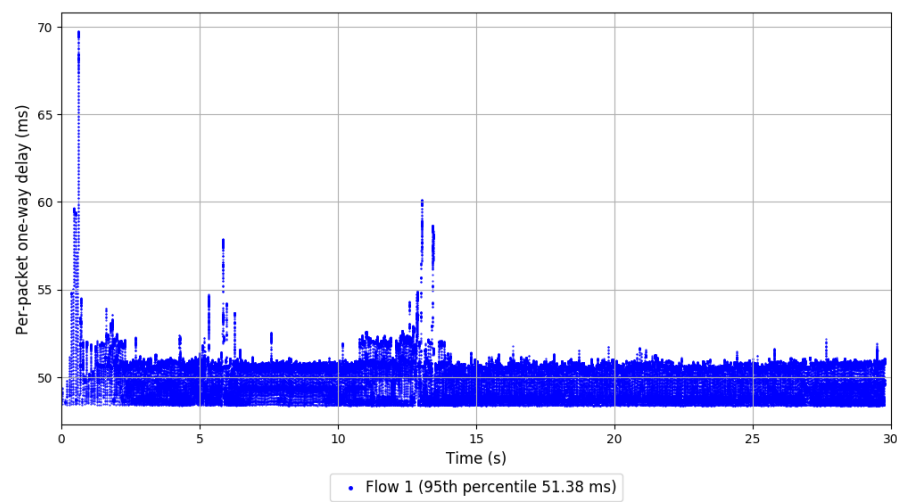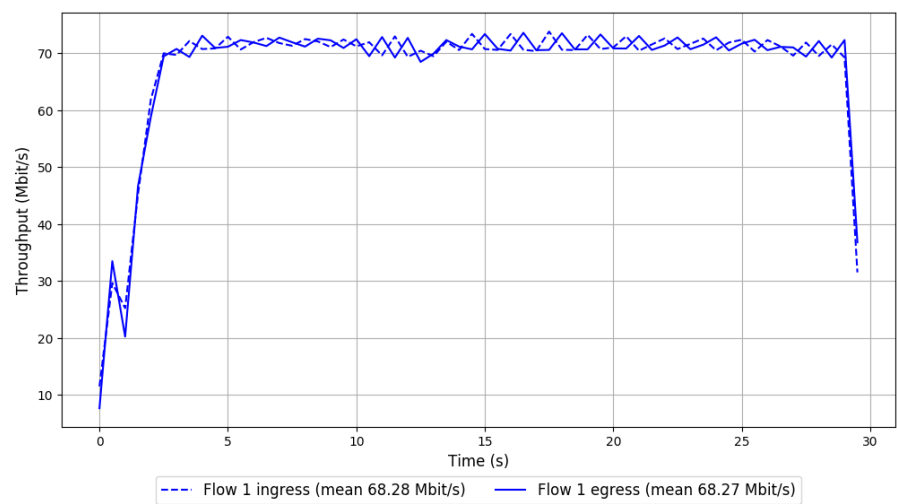Run 8: Report of Indigo-delay — Data Link

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```
Run 9: Statistics of Indigo-delay

Start at: 2017-09-23 06:18:46
End at: 2017-09-23 06:19:16
Local clock offset: -0.957 ms
Remote clock offset: -2.437 ms


# Below is generated by plot.py at 2017-09-23 07:17:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.27 Mbit/s
95th percentile per-packet one-way delay: 51.379 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 68.27 Mbit/s
95th percentile per-packet one-way delay: 51.379 ms
Loss rate: 0.01%
```

Run 9: Report of Indigo-delay — Data Link

```
Run 10: Statistics of Indigo-delay

Start at: 2017-09-23 06:37:39
End at: 2017-09-23 06:38:09
Local clock offset: -1.191 ms
Remote clock offset: -0.116 ms


# Below is generated by plot.py at 2017-09-23 07:17:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.57 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.57 Mbit/s
95th percentile per-packet one-way delay: 53.260 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo-delay — Data Link