Pantheon Report

Generated at 2018-04-24 16:56:36 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

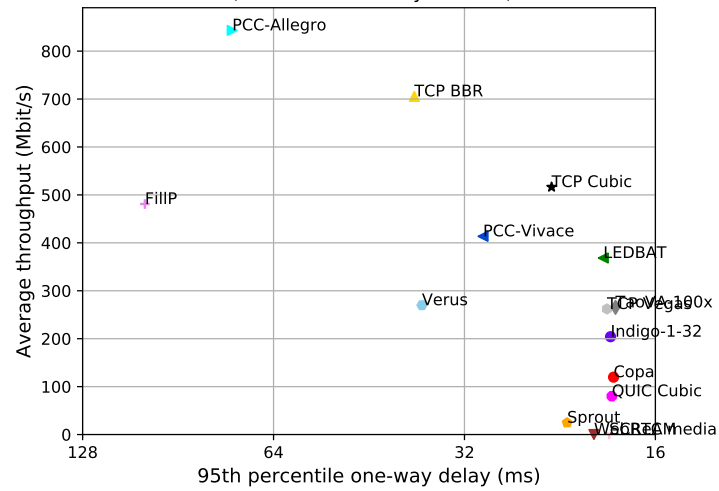Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

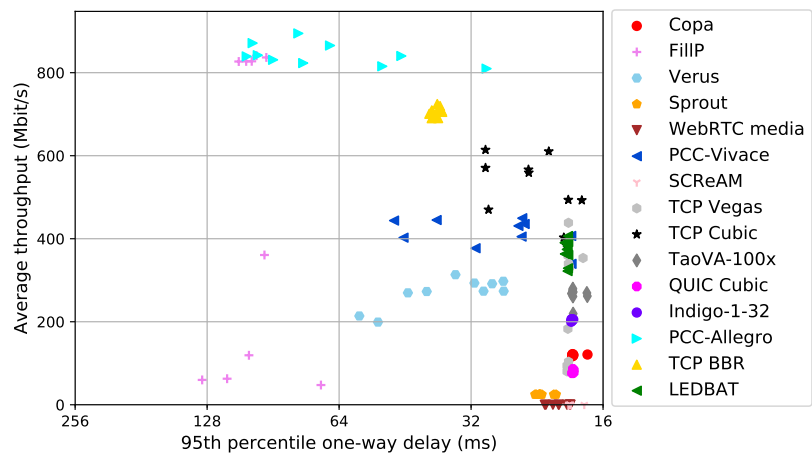NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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

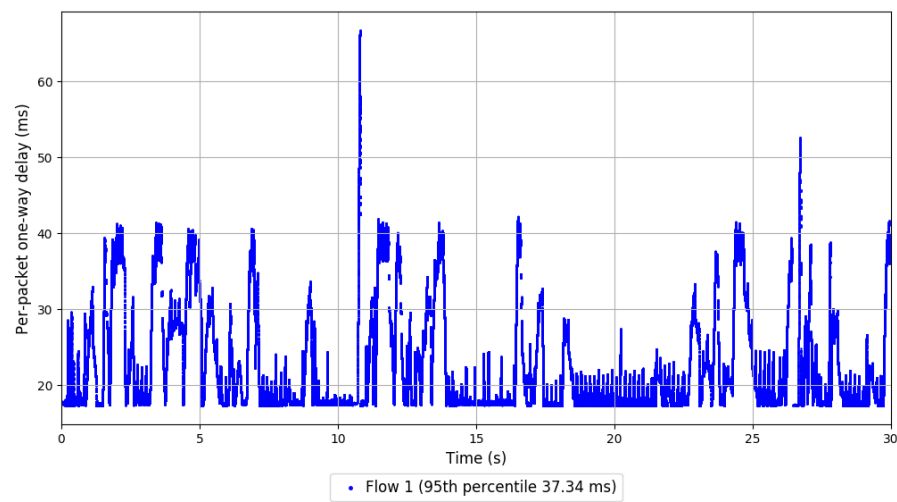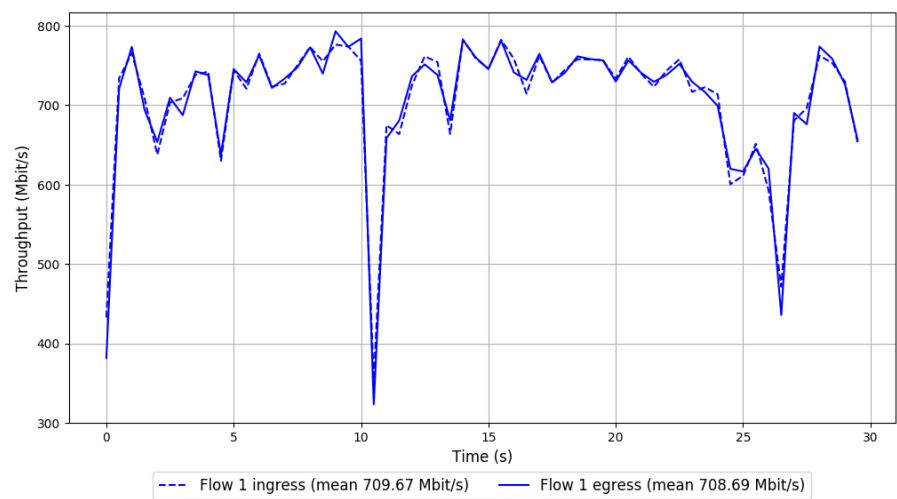test from AWS California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme

2

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	705.59	38.39	0.06
TCP Cubic	10	516.39	23.33	0.04
LEDBAT	10	368.36	19.33	0.00
PCC-Allegro	10	843.23	74.36	0.68
QUIC Cubic	9	79.98	18.74	0.00
SCReAM	10	0.22	18.93	0.00
WebRTC media	10	0.06	20.00	0.00
Sprout	10	24.70	22.05	0.00
TaoVA-100x	10	265.28	18.49	0.00
TCP Vegas	10	262.00	19.08	0.01
Verus	10	269.86	37.35	7.29
Copa	10	119.76	18.62	0.00
FillP	10	480.96	102.10	11.08
Indigo-1-32	10	204.14	18.83	0.00
PCC-Vivace	10	413.56	29.92	0.00
PCC-Expr	0	N/A	N/A	N/A

```
Run 1: Statistics of TCP BBR

Start at: 2018-04-24 09:30:32
End at: 2018-04-24 09:31:02
Local clock offset: -0.367 ms
Remote clock offset: -5.243 ms


# Below is generated by plot.py at 2018-04-24 15:32:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 708.69 Mbit/s
95th percentile per-packet one-way delay: 37.340 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 708.69 Mbit/s
95th percentile per-packet one-way delay: 37.340 ms
Loss rate: 0.13%
```
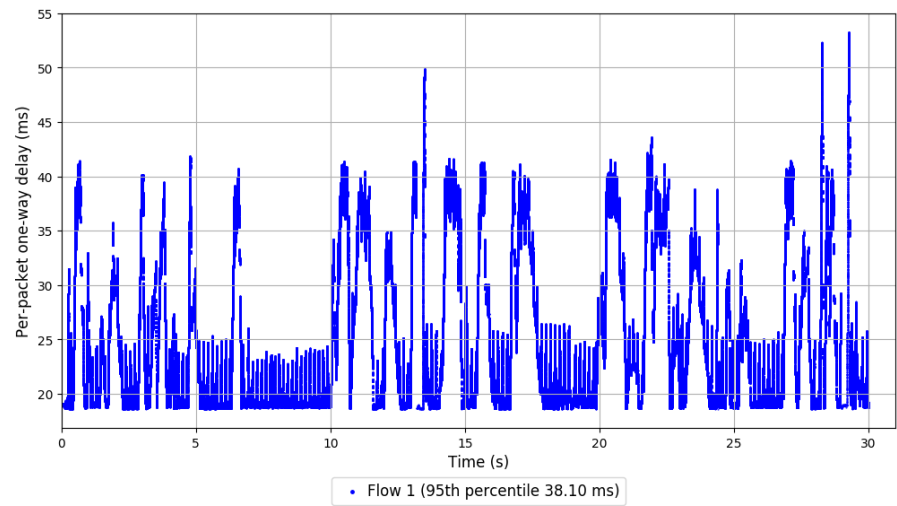
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2018-04-24 09:55:34
End at: 2018-04-24 09:56:04
Local clock offset: -0.355 ms
Remote clock offset: -5.271 ms


# Below is generated by plot.py at 2018-04-24 15:32:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 707.11 Mbit/s
95th percentile per-packet one-way delay: 38.100 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 707.11 Mbit/s
95th percentile per-packet one-way delay: 38.100 ms
Loss rate: 0.05%
```
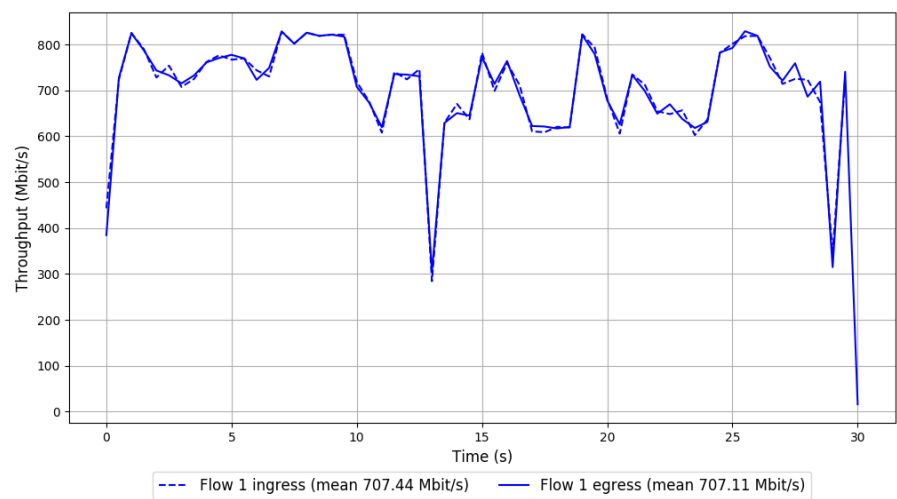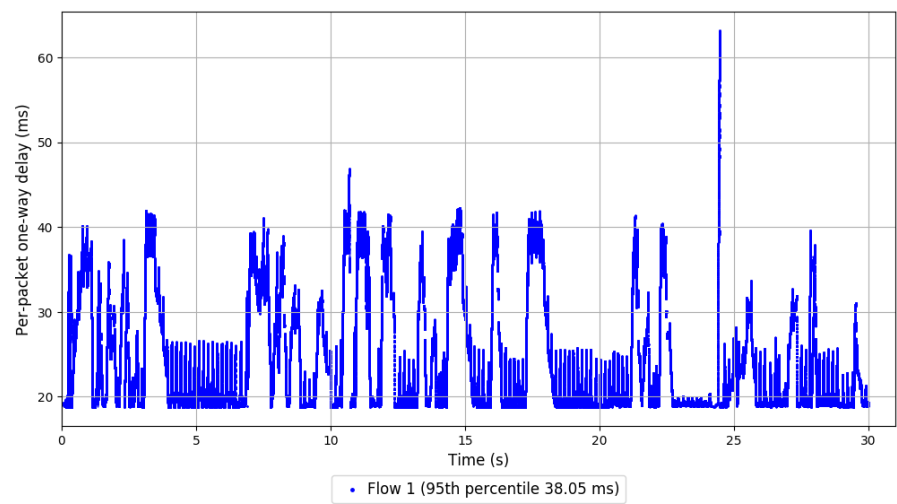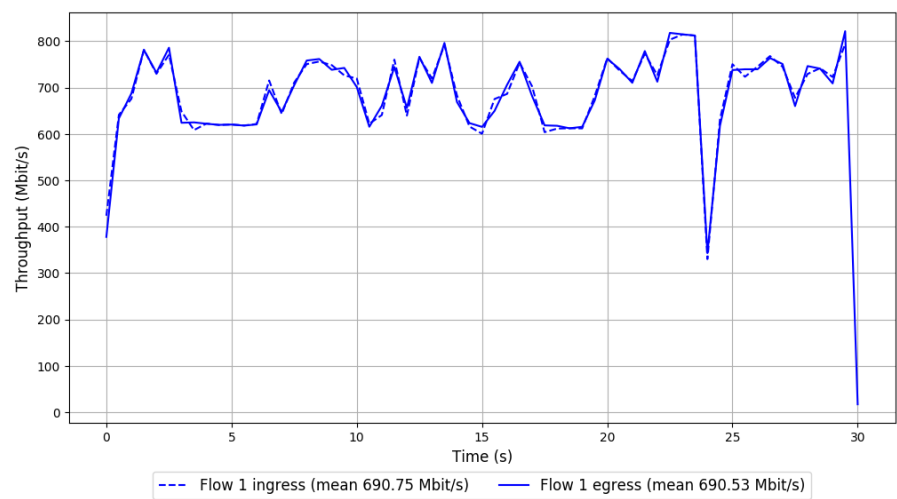
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 707.44 Mbit/s)   Flow 1 egress (mean 707.11 Mbit/s)
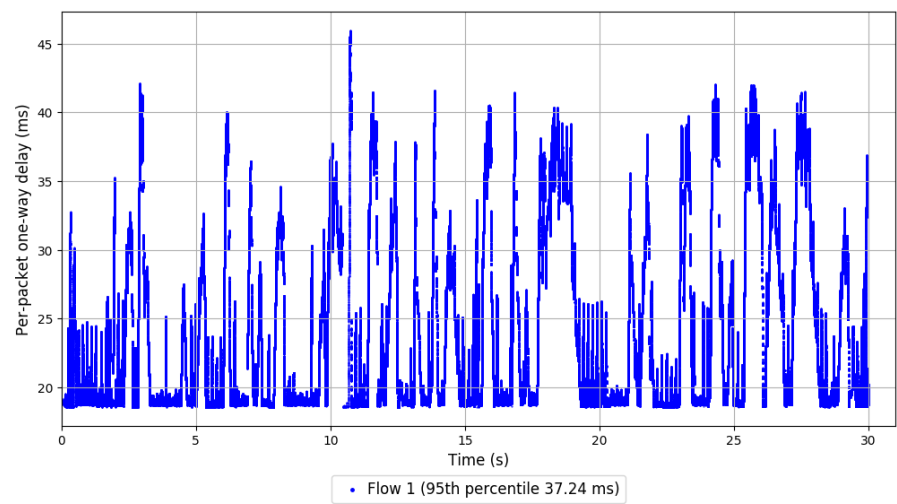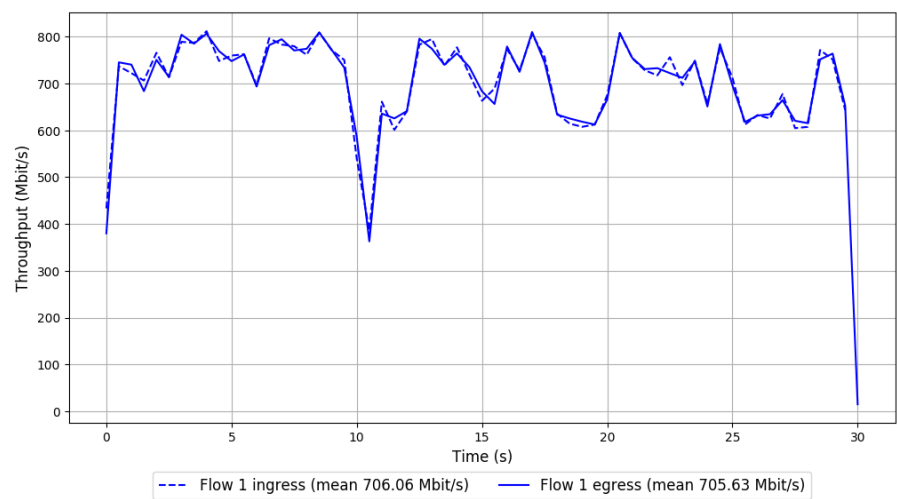

• Flow 1 (95th percentile 38.10 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2018-04-24 10:20:57
End at: 2018-04-24 10:21:27
Local clock offset: -0.449 ms
Remote clock offset: -5.126 ms


# Below is generated by plot.py at 2018-04-24 15:32:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 690.53 Mbit/s
95th percentile per-packet one-way delay: 38.049 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 690.53 Mbit/s
95th percentile per-packet one-way delay: 38.049 ms
Loss rate: 0.03%
```

Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2018-04-24 10:45:56
End at: 2018-04-24 10:46:26
Local clock offset: -0.328 ms
Remote clock offset: -5.586 ms


# Below is generated by plot.py at 2018-04-24 15:32:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 705.63 Mbit/s
95th percentile per-packet one-way delay: 37.240 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 705.63 Mbit/s
95th percentile per-packet one-way delay: 37.240 ms
Loss rate: 0.06%
```
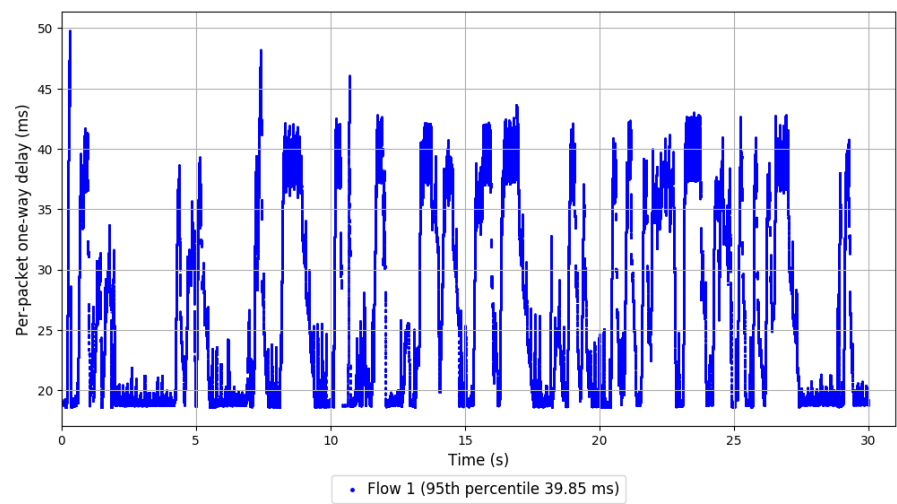
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2018-04-24 11:10:53
End at: 2018-04-24 11:11:23
Local clock offset: 0.09 ms
Remote clock offset: -6.008 ms


# Below is generated by plot.py at 2018-04-24 15:32:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 700.99 Mbit/s
95th percentile per-packet one-way delay: 39.851 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 700.99 Mbit/s
95th percentile per-packet one-way delay: 39.851 ms
Loss rate: 0.03%
```
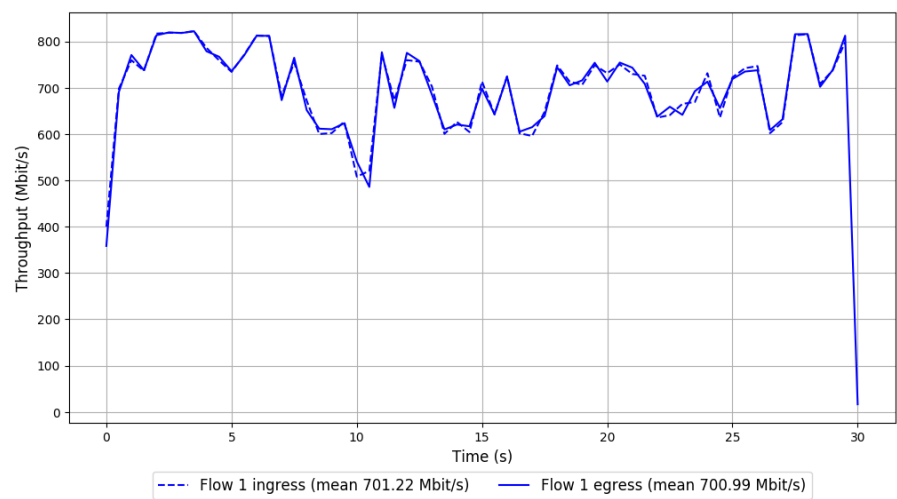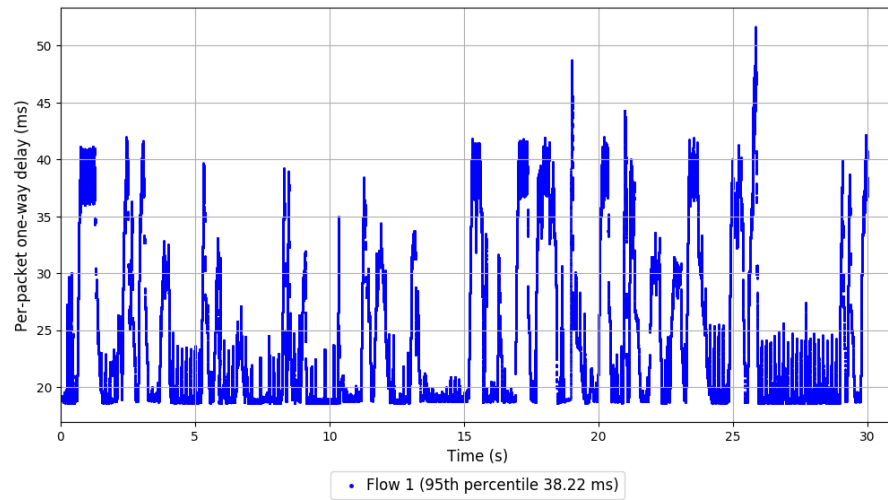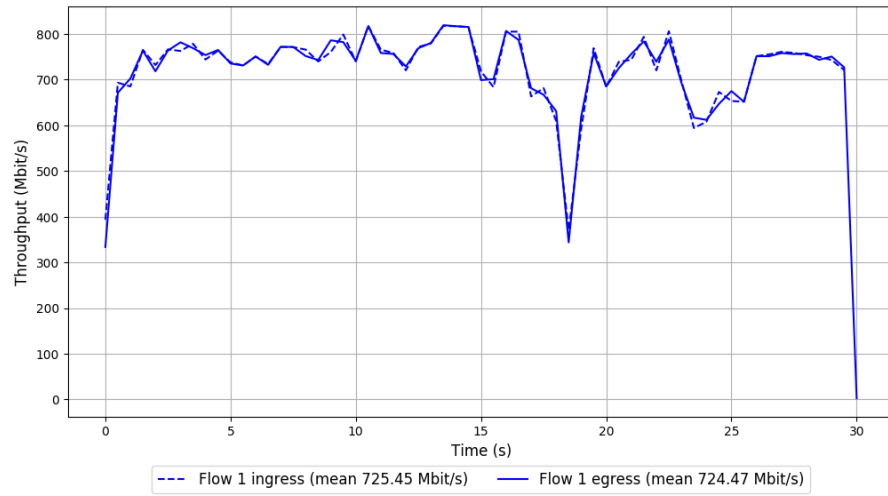
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 701.22 Mbit/s) — — — Flow 1 egress (mean 700.99 Mbit/s)

Flow 1 (95th percentile 39.85 ms)

```
Run 6: Statistics of TCP BBR

Start at: 2018-04-24 11:35:51
End at: 2018-04-24 11:36:21
Local clock offset: -0.244 ms
Remote clock offset: -6.438 ms


# Below is generated by plot.py at 2018-04-24 15:33:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 724.47 Mbit/s
95th percentile per-packet one-way delay: 38.218 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 724.47 Mbit/s
95th percentile per-packet one-way delay: 38.218 ms
Loss rate: 0.14%
```
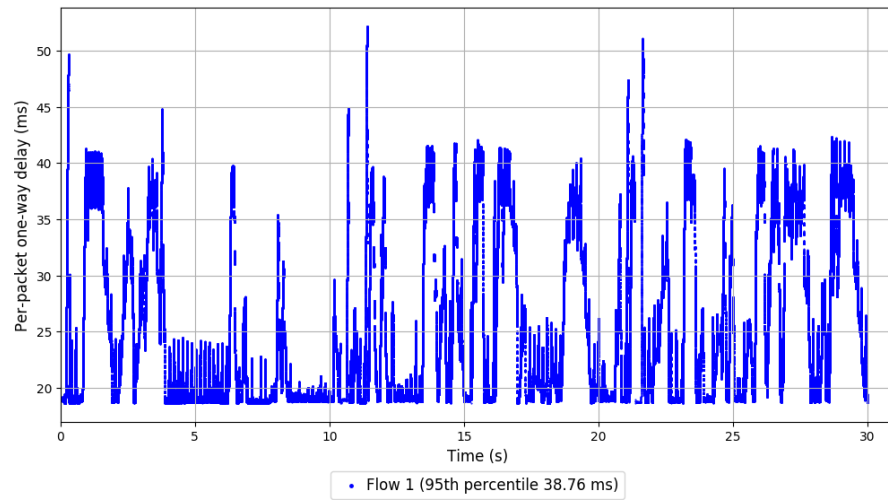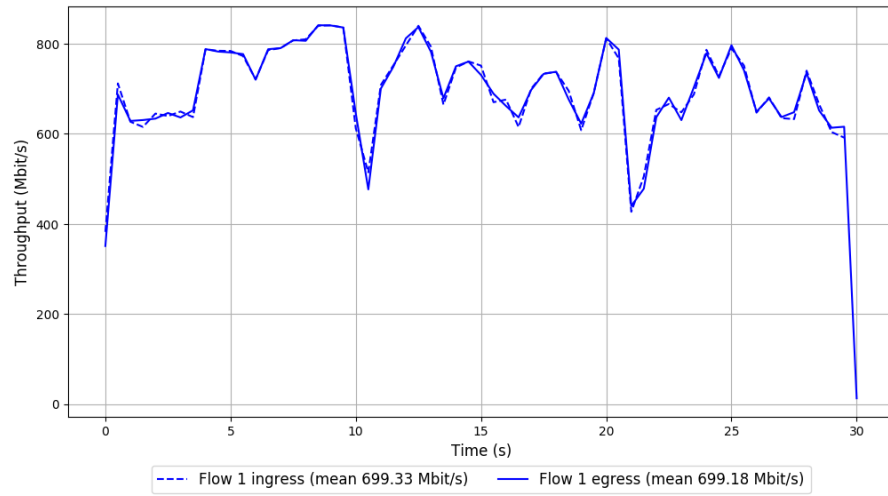
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 725.45 Mbit/s) --- Flow 1 egress (mean 724.47 Mbit/s)
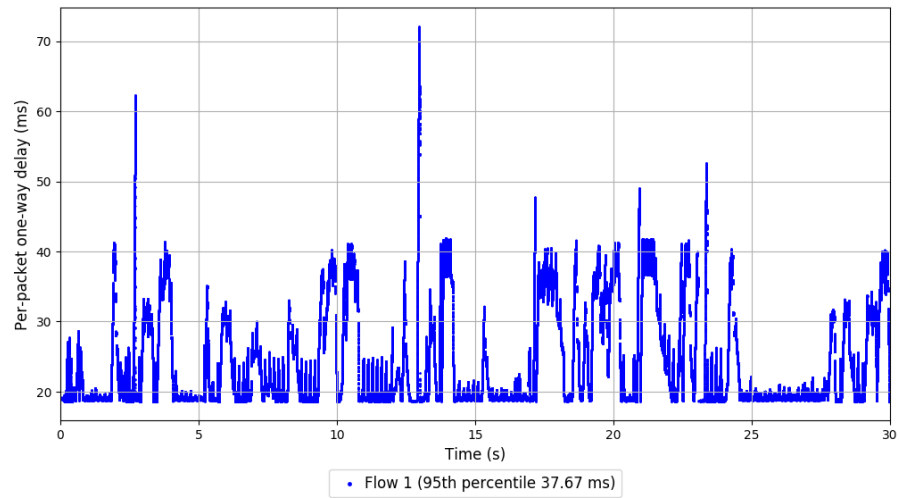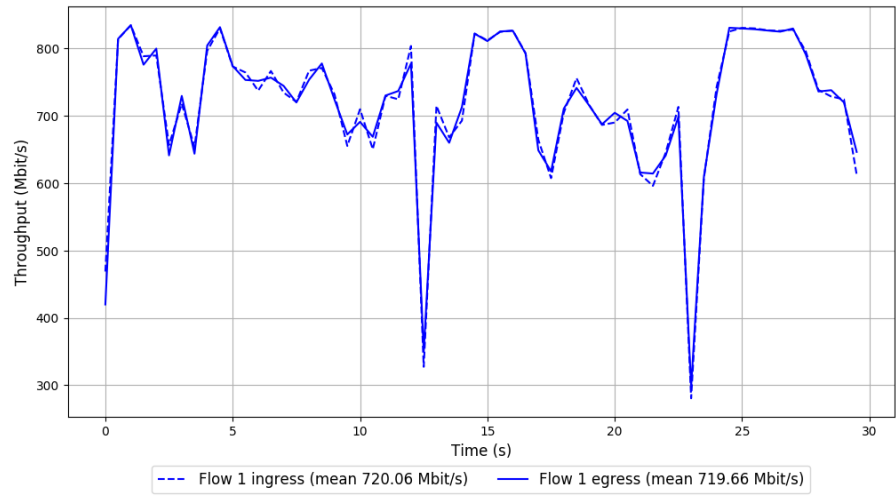

Flow 1 (95th percentile 38.22 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-04-24 12:01:26
End at: 2018-04-24 12:01:56
Local clock offset: -0.294 ms
Remote clock offset: -6.61 ms


# Below is generated by plot.py at 2018-04-24 15:33:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 699.18 Mbit/s
95th percentile per-packet one-way delay: 38.758 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 699.18 Mbit/s
95th percentile per-packet one-way delay: 38.758 ms
Loss rate: 0.02%
```

Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 699.33 Mbit/s)   Flow 1 egress (mean 699.18 Mbit/s)
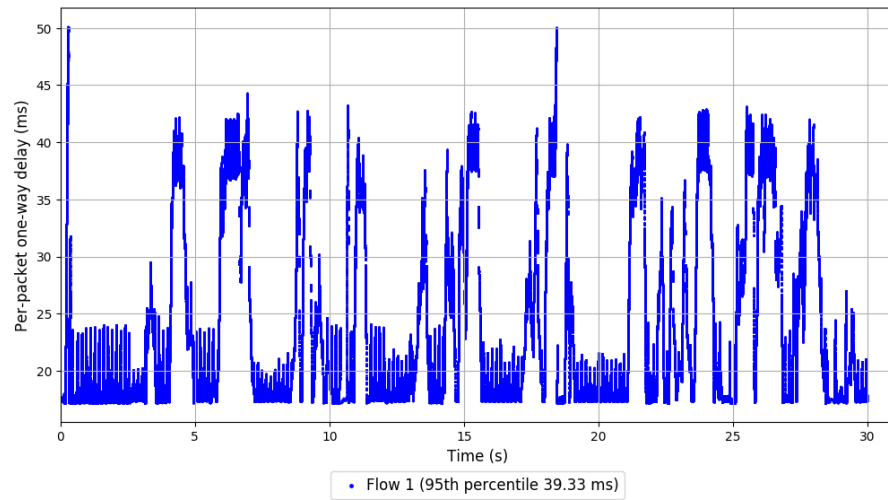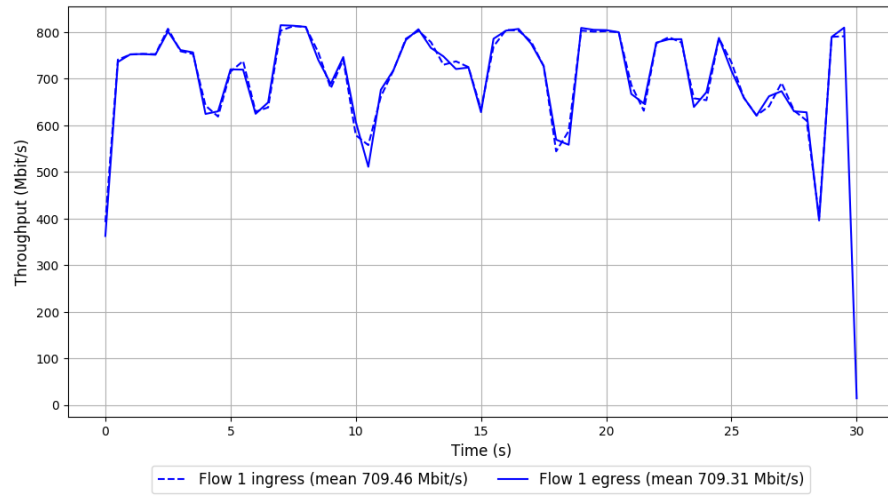

• Flow 1 (95th percentile 38.76 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-04-24 12:26:54
End at: 2018-04-24 12:27:24
Local clock offset: -0.087 ms
Remote clock offset: -5.685 ms


# Below is generated by plot.py at 2018-04-24 15:33:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 719.66 Mbit/s
95th percentile per-packet one-way delay: 37.666 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 719.66 Mbit/s
95th percentile per-packet one-way delay: 37.666 ms
Loss rate: 0.06%
```

Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 720.06 Mbit/s) --- Flow 1 egress (mean 719.66 Mbit/s)

• Flow 1 (95th percentile 37.67 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-04-24 12:52:07
End at: 2018-04-24 12:52:37
Local clock offset: -0.137 ms
Remote clock offset: -5.219 ms


# Below is generated by plot.py at 2018-04-24 15:42:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 709.31 Mbit/s
95th percentile per-packet one-way delay: 39.332 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 709.31 Mbit/s
95th percentile per-packet one-way delay: 39.332 ms
Loss rate: 0.02%
```
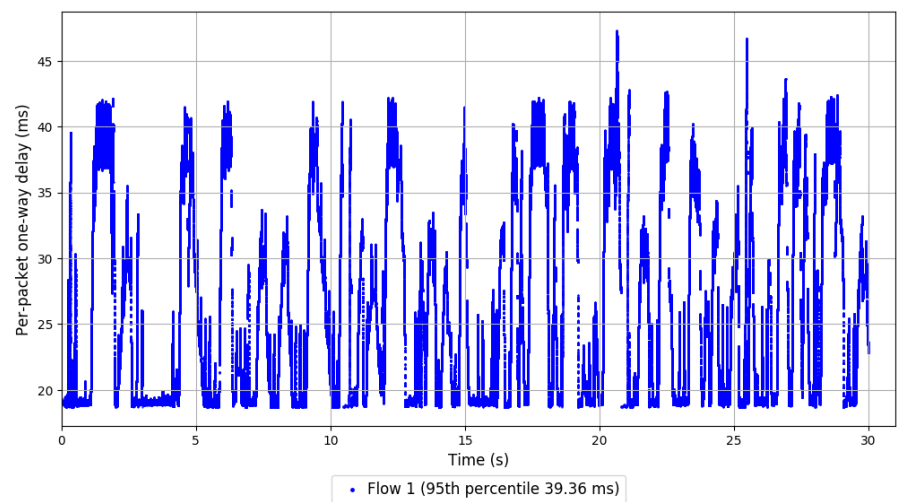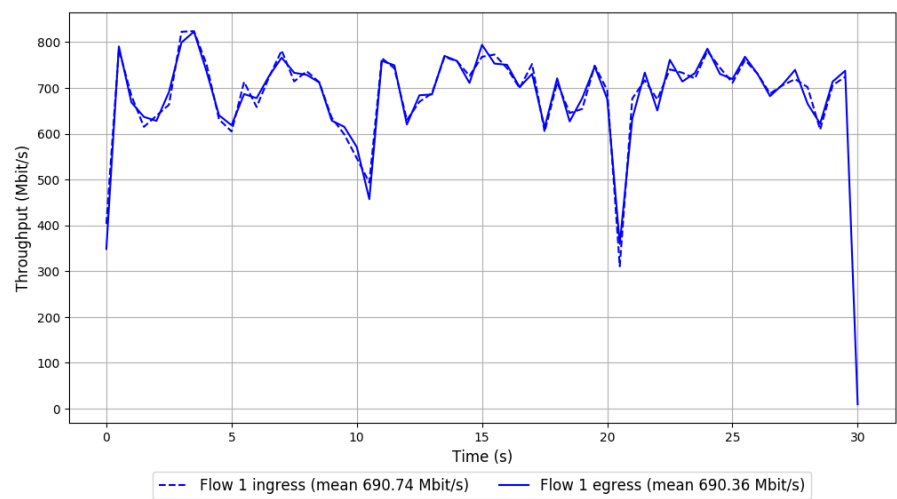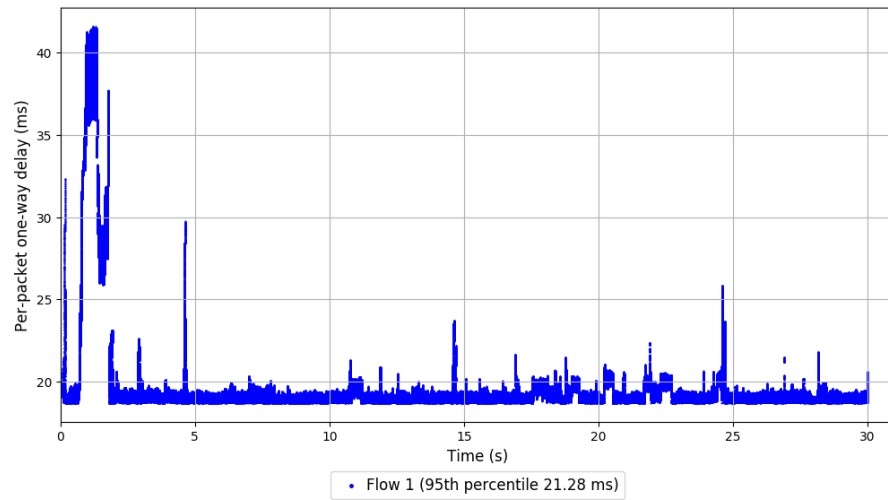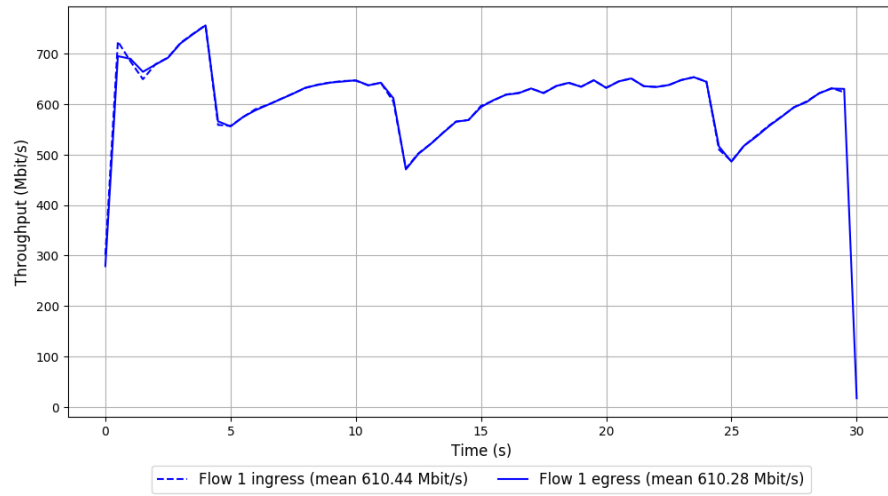
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 709.46 Mbit/s)　　Flow 1 egress (mean 709.31 Mbit/s)

Flow 1 (95th percentile 39.33 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-04-24 13:17:44
End at: 2018-04-24 13:18:14
Local clock offset: -0.038 ms
Remote clock offset: -4.85 ms


# Below is generated by plot.py at 2018-04-24 15:42:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 690.36 Mbit/s
95th percentile per-packet one-way delay: 39.357 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 690.36 Mbit/s
95th percentile per-packet one-way delay: 39.357 ms
Loss rate: 0.06%
```

Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 690.74 Mbit/s) — Flow 1 egress (mean 690.36 Mbit/s)
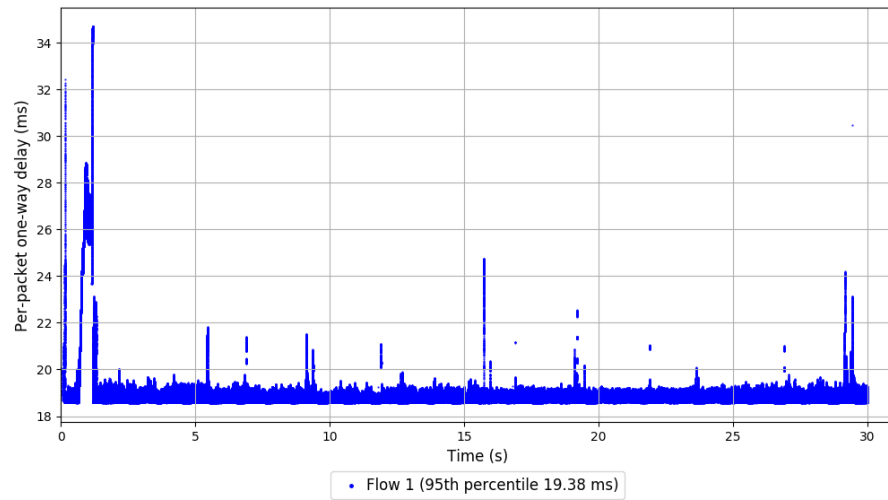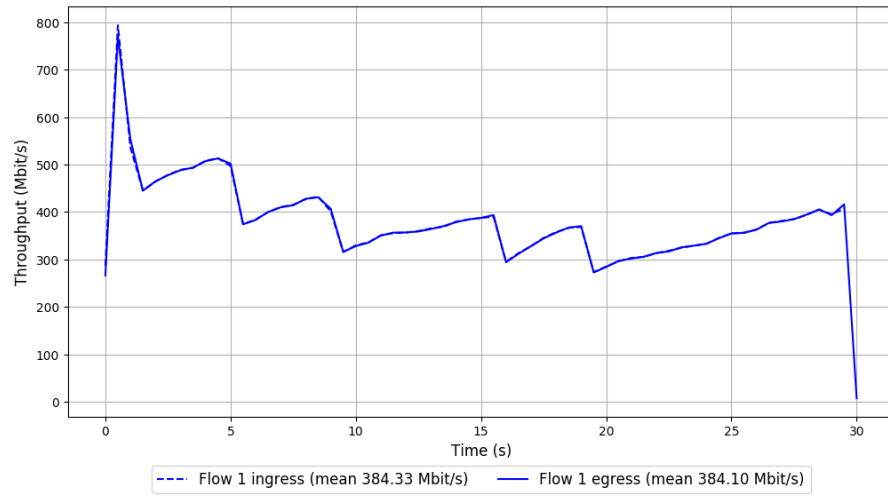

• Flow 1 (95th percentile 39.36 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 09:24:04
End at: 2018-04-24 09:24:35
Local clock offset: -0.31 ms
Remote clock offset: -5.096 ms


# Below is generated by plot.py at 2018-04-24 15:42:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 610.28 Mbit/s
95th percentile per-packet one-way delay: 21.281 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 610.28 Mbit/s
95th percentile per-packet one-way delay: 21.281 ms
Loss rate: 0.03%
```
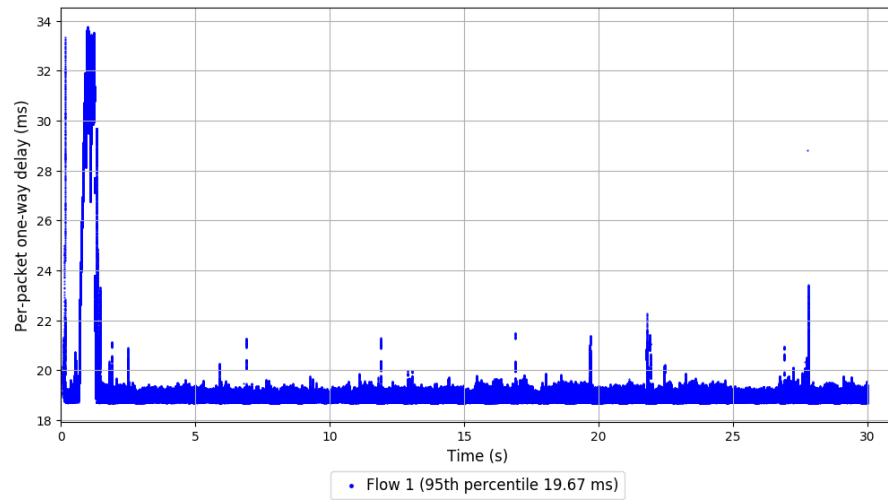
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 09:49:30
End at: 2018-04-24 09:50:00
Local clock offset: -0.347 ms
Remote clock offset: -5.345 ms


# Below is generated by plot.py at 2018-04-24 15:42:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.10 Mbit/s
95th percentile per-packet one-way delay: 19.379 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 384.10 Mbit/s
95th percentile per-packet one-way delay: 19.379 ms
Loss rate: 0.06%
```
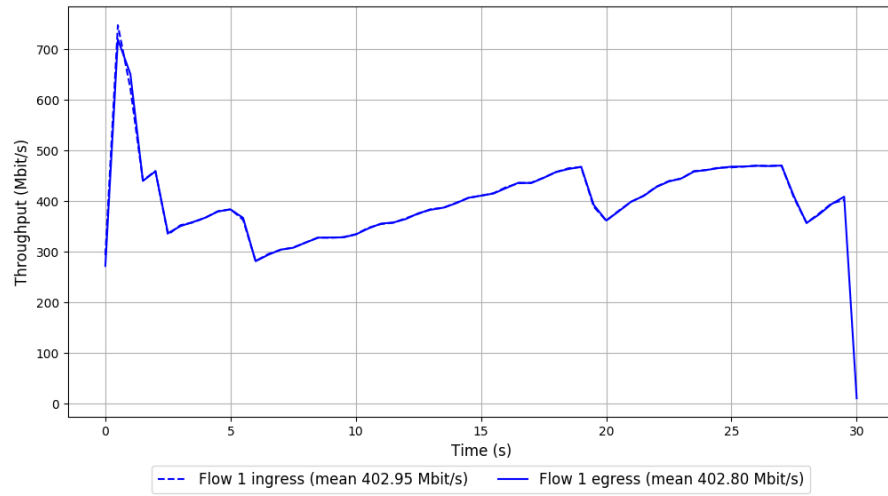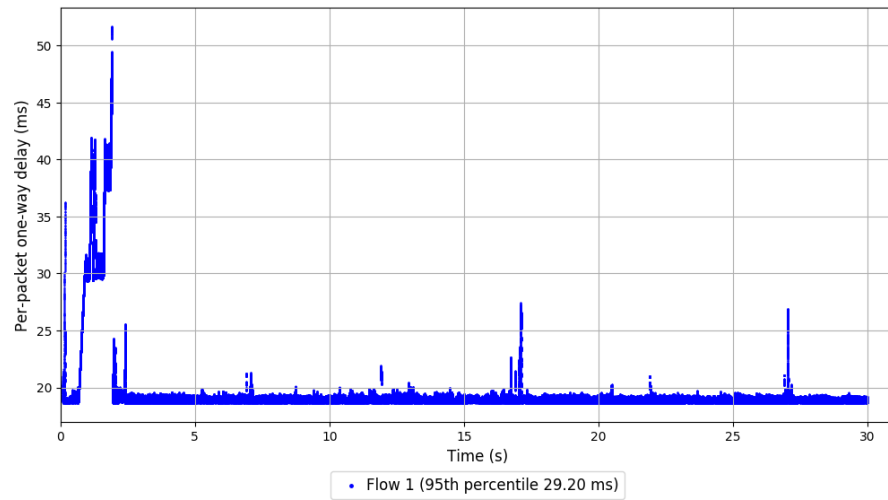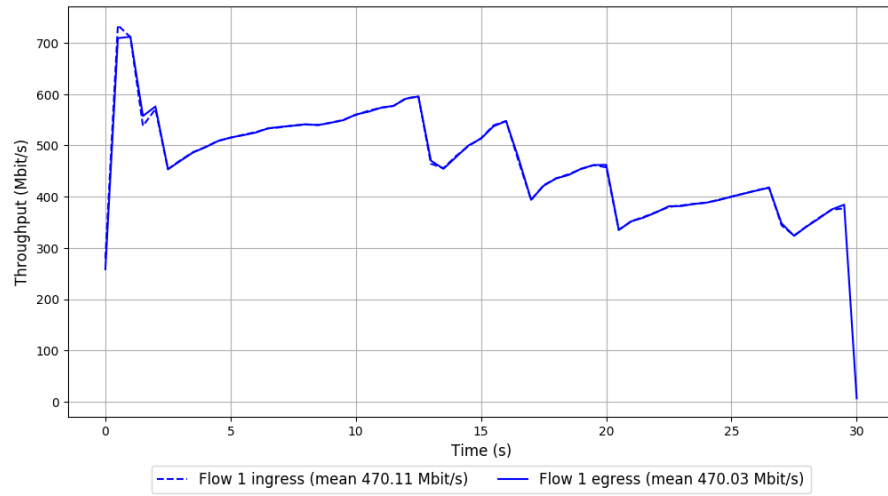
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 10:14:36
End at: 2018-04-24 10:15:07
Local clock offset: -0.47 ms
Remote clock offset: -5.24 ms


# Below is generated by plot.py at 2018-04-24 15:42:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.80 Mbit/s
95th percentile per-packet one-way delay: 19.667 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 402.80 Mbit/s
95th percentile per-packet one-way delay: 19.667 ms
Loss rate: 0.04%
```
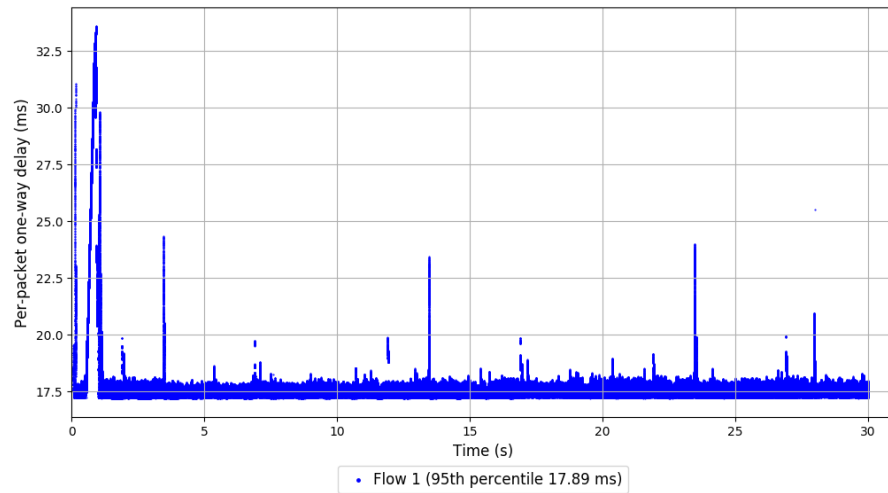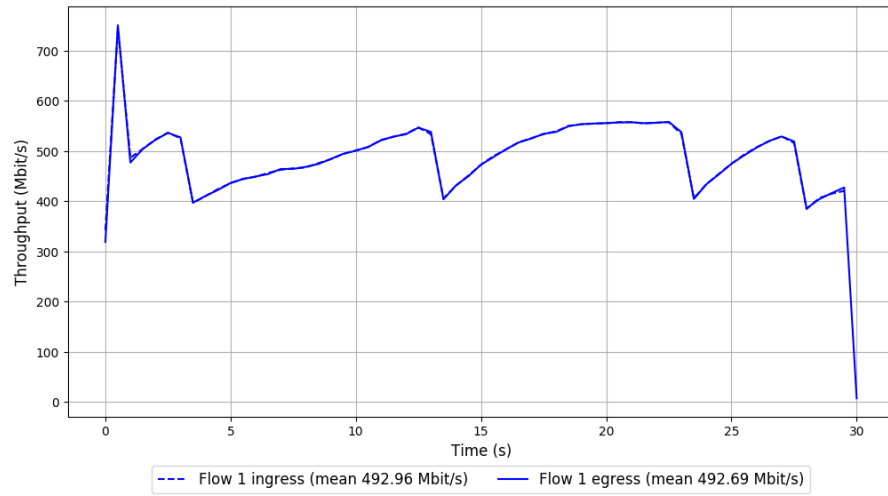
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 402.95 Mbit/s)   Flow 1 egress (mean 402.80 Mbit/s)

Flow 1 (95th percentile 19.67 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 10:40:01
End at: 2018-04-24 10:40:31
Local clock offset: -0.362 ms
Remote clock offset: -5.463 ms


# Below is generated by plot.py at 2018-04-24 15:42:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 470.03 Mbit/s
95th percentile per-packet one-way delay: 29.202 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 470.03 Mbit/s
95th percentile per-packet one-way delay: 29.202 ms
Loss rate: 0.02%
```
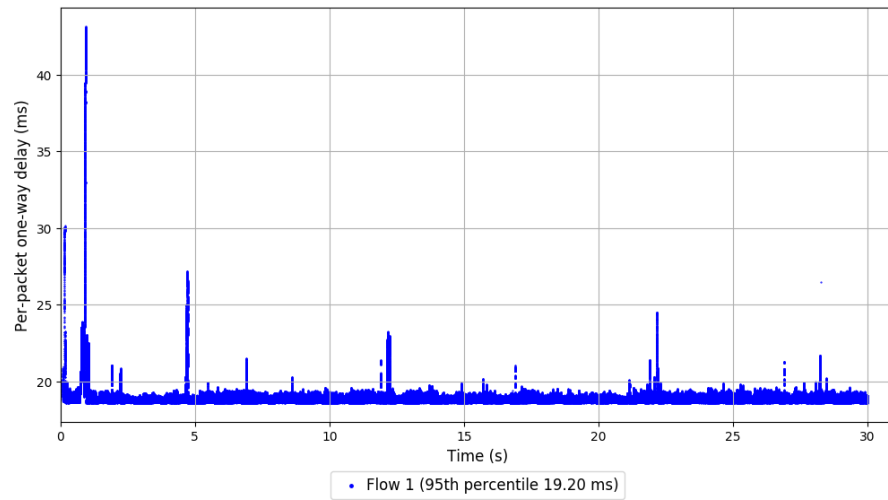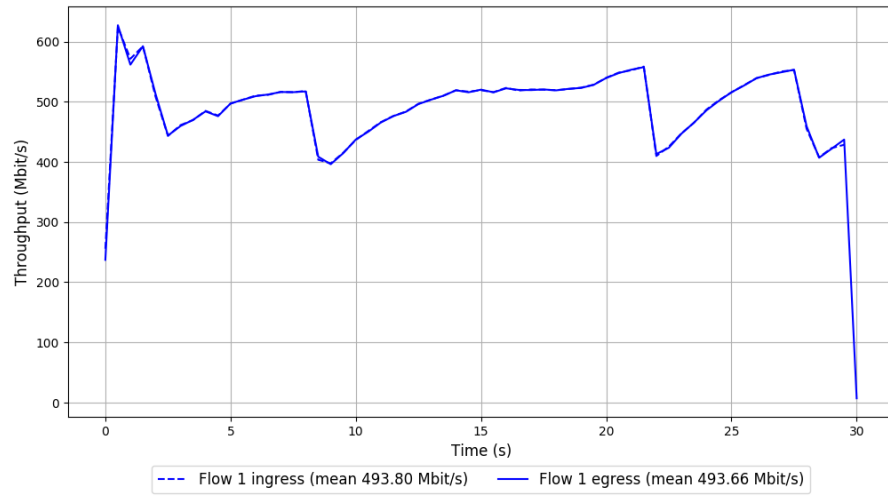
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 11:04:54
End at: 2018-04-24 11:05:24
Local clock offset: -0.003 ms
Remote clock offset: -5.761 ms


# Below is generated by plot.py at 2018-04-24 15:42:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 492.69 Mbit/s
95th percentile per-packet one-way delay: 17.890 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 492.69 Mbit/s
95th percentile per-packet one-way delay: 17.890 ms
Loss rate: 0.05%
```
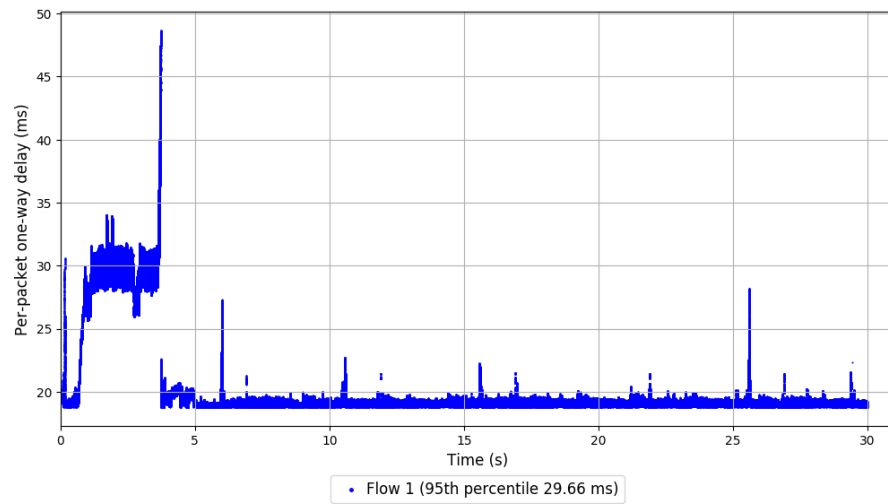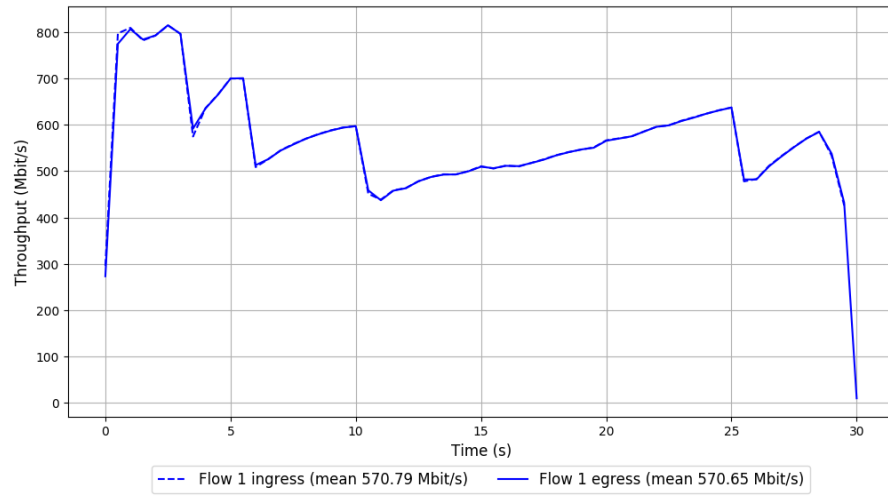
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 492.96 Mbit/s)   Flow 1 egress (mean 492.69 Mbit/s)
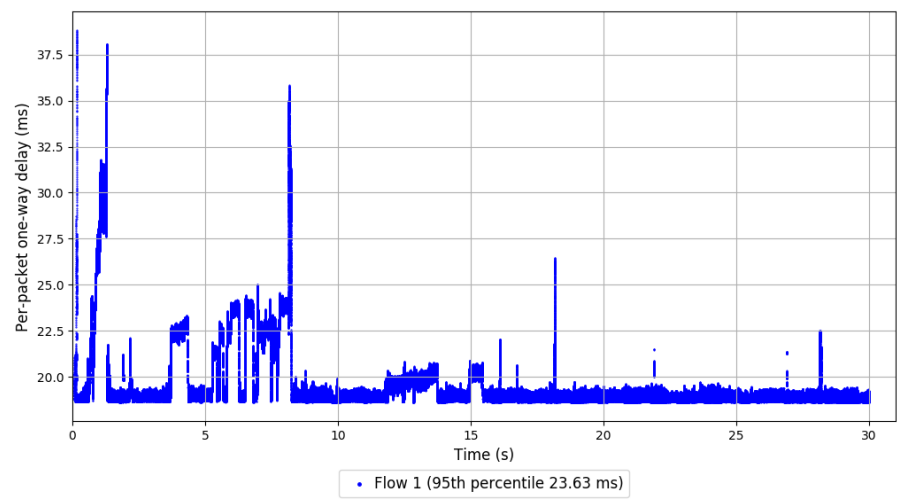

Flow 1 (95th percentile 17.89 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 11:29:55
End at: 2018-04-24 11:30:25
Local clock offset: -0.191 ms
Remote clock offset: -6.341 ms


# Below is generated by plot.py at 2018-04-24 15:42:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 493.66 Mbit/s
95th percentile per-packet one-way delay: 19.204 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 493.66 Mbit/s
95th percentile per-packet one-way delay: 19.204 ms
Loss rate: 0.03%
```
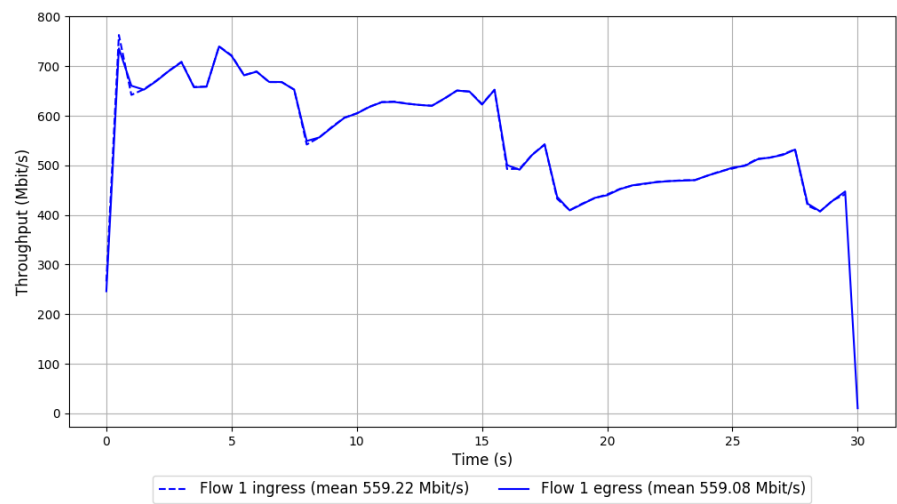
Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 493.80 Mbit/s)　　Flow 1 egress (mean 493.66 Mbit/s)

• Flow 1 (95th percentile 19.20 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 11:55:01
End at: 2018-04-24 11:55:31
Local clock offset: -0.372 ms
Remote clock offset: -6.483 ms


# Below is generated by plot.py at 2018-04-24 15:47:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.65 Mbit/s
95th percentile per-packet one-way delay: 29.665 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 570.65 Mbit/s
95th percentile per-packet one-way delay: 29.665 ms
Loss rate: 0.03%
```
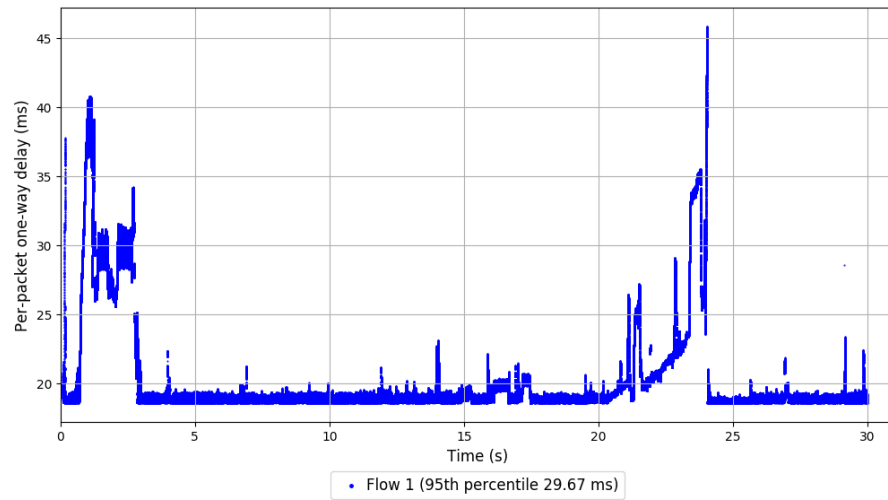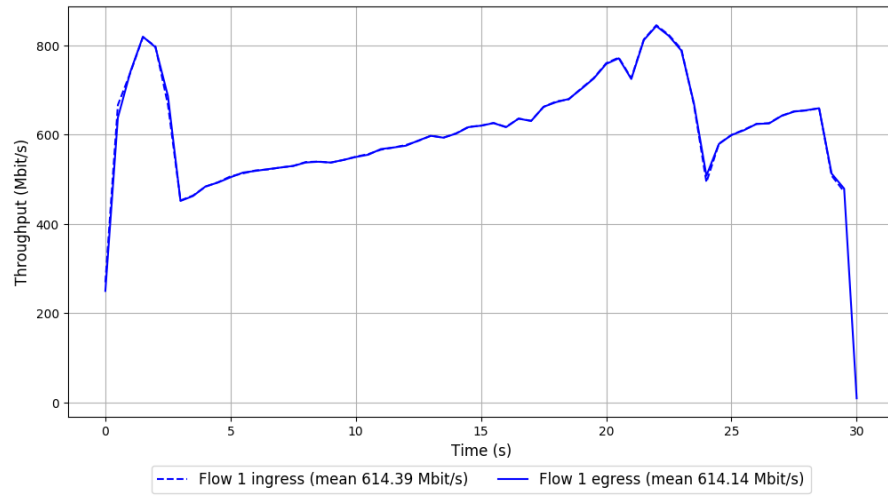
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 570.79 Mbit/s) — Flow 1 egress (mean 570.65 Mbit/s)

· Flow 1 (95th percentile 29.66 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 12:20:28
End at: 2018-04-24 12:20:58
Local clock offset: -0.206 ms
Remote clock offset: -5.993 ms


# Below is generated by plot.py at 2018-04-24 15:47:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 559.08 Mbit/s
95th percentile per-packet one-way delay: 23.632 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 559.08 Mbit/s
95th percentile per-packet one-way delay: 23.632 ms
Loss rate: 0.03%
```
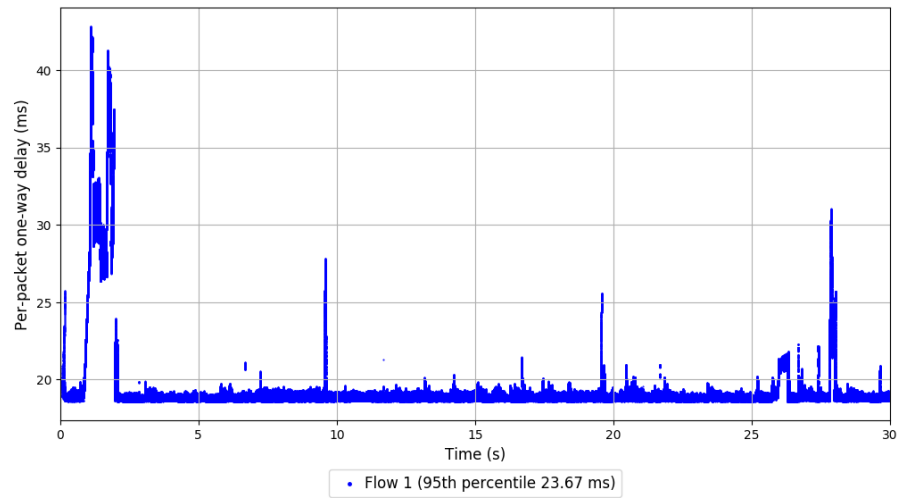
Run 8: Report of TCP Cubic — Data Link

```
Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 12:46:02
End at: 2018-04-24 12:46:32
Local clock offset: -0.152 ms
Remote clock offset: -5.513 ms


# Below is generated by plot.py at 2018-04-24 15:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 614.14 Mbit/s
95th percentile per-packet one-way delay: 29.666 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 614.14 Mbit/s
95th percentile per-packet one-way delay: 29.666 ms
Loss rate: 0.05%
```
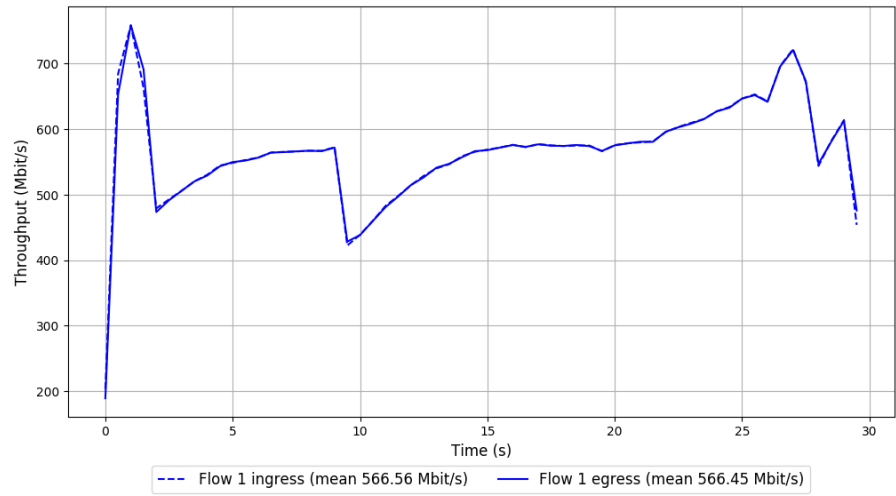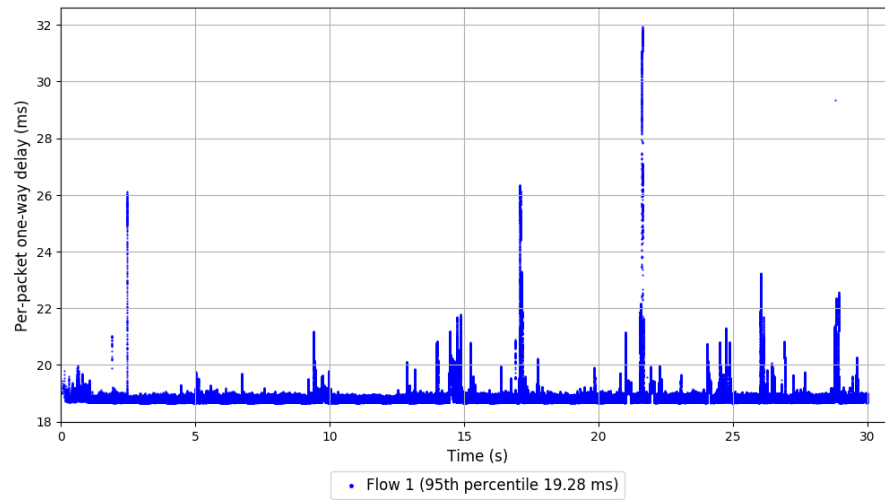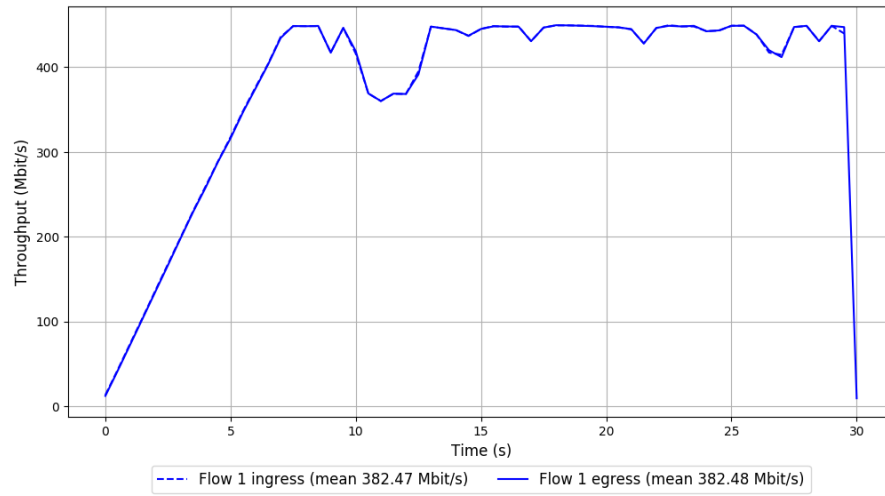
Run 9: Report of TCP Cubic — Data Link

```
Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 13:11:16
End at: 2018-04-24 13:11:46
Local clock offset: 0.037 ms
Remote clock offset: -4.914 ms


# Below is generated by plot.py at 2018-04-24 15:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 566.45 Mbit/s
95th percentile per-packet one-way delay: 23.673 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 566.45 Mbit/s
95th percentile per-packet one-way delay: 23.673 ms
Loss rate: 0.02%
```
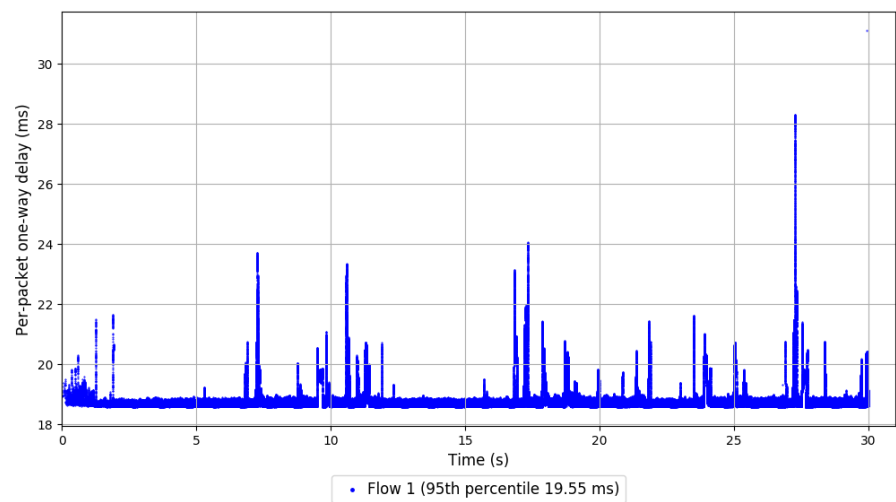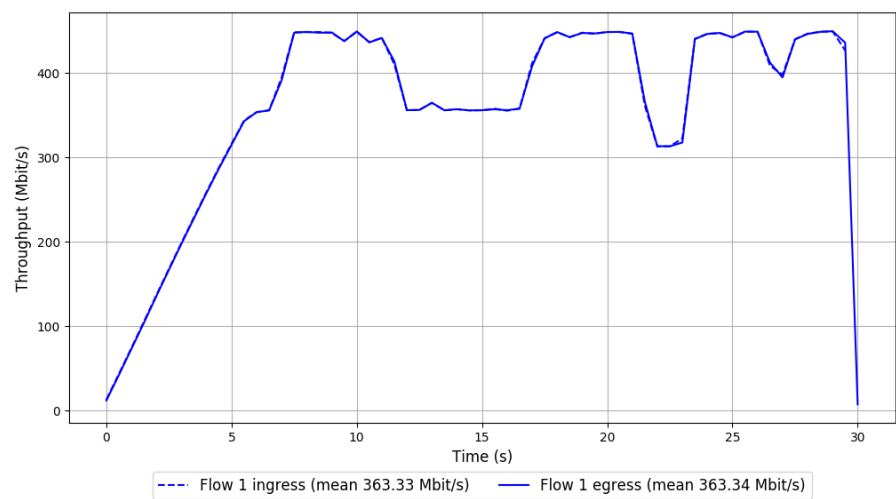
Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 09:25:44
End at: 2018-04-24 09:26:14
Local clock offset: -0.286 ms
Remote clock offset: -5.106 ms

# Below is generated by plot.py at 2018-04-24 15:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.48 Mbit/s
95th percentile per-packet one-way delay: 19.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 382.48 Mbit/s
95th percentile per-packet one-way delay: 19.277 ms
Loss rate: 0.00%
```
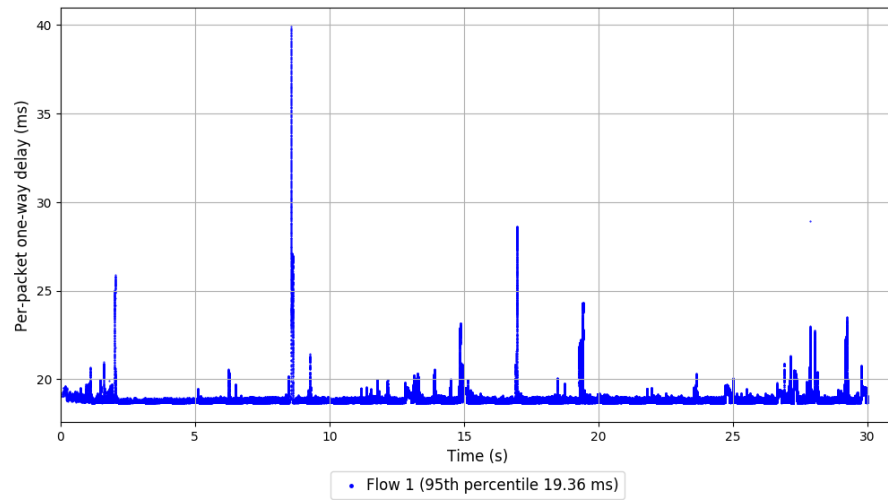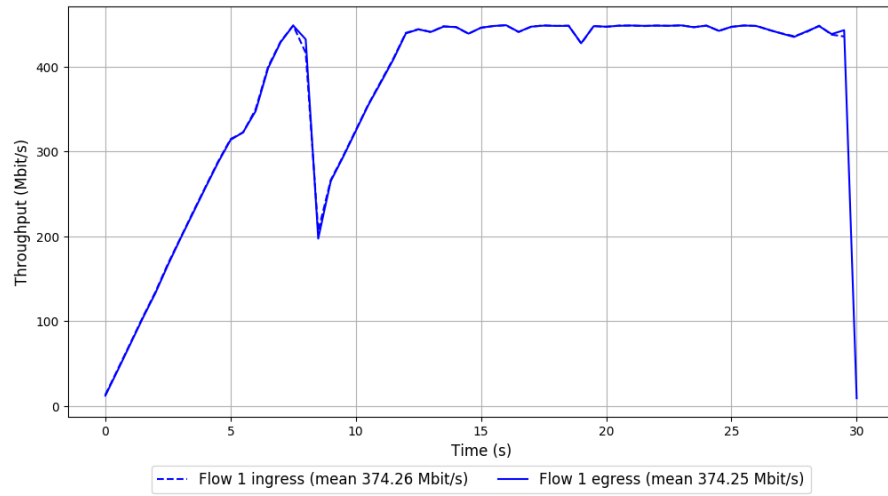
Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2018-04-24 09:51:01
End at: 2018-04-24 09:51:31
Local clock offset: -0.367 ms
Remote clock offset: -5.341 ms


# Below is generated by plot.py at 2018-04-24 15:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.34 Mbit/s
95th percentile per-packet one-way delay: 19.551 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 363.34 Mbit/s
95th percentile per-packet one-way delay: 19.551 ms
Loss rate: 0.00%
```
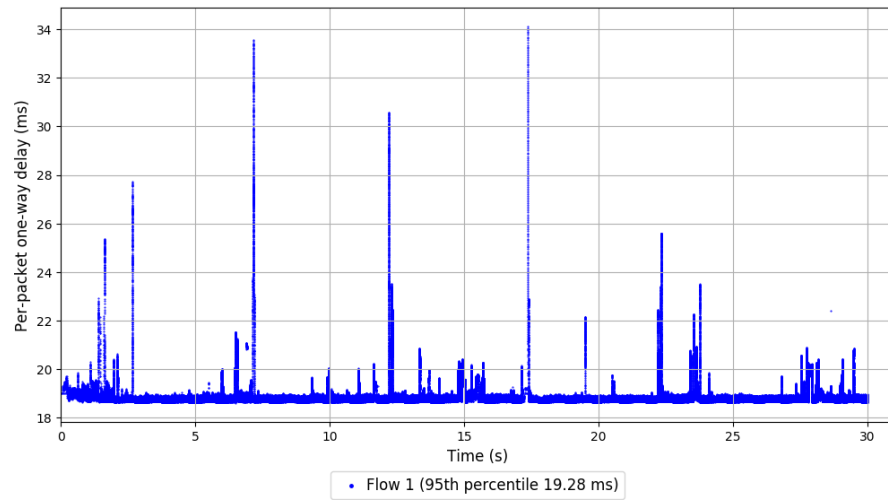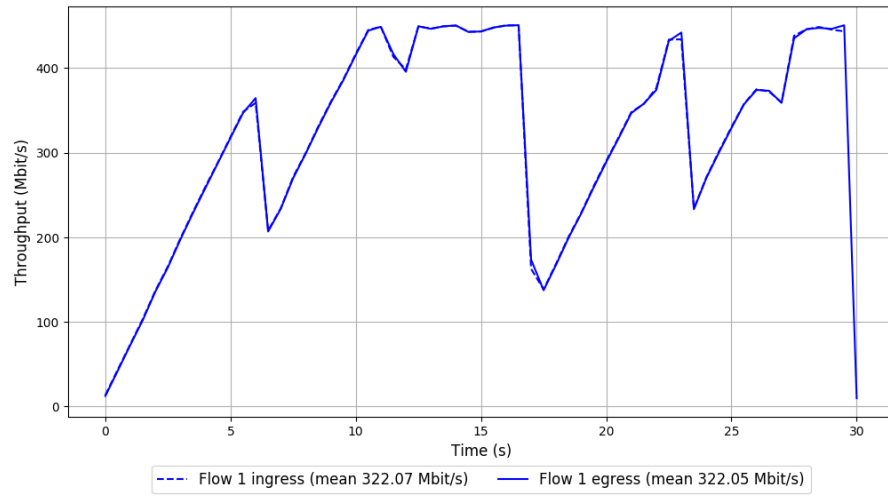
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2018-04-24 10:16:09
End at: 2018-04-24 10:16:39
Local clock offset: -0.438 ms
Remote clock offset: -5.236 ms


# Below is generated by plot.py at 2018-04-24 15:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 374.25 Mbit/s
95th percentile per-packet one-way delay: 19.360 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 374.25 Mbit/s
95th percentile per-packet one-way delay: 19.360 ms
Loss rate: 0.00%
```
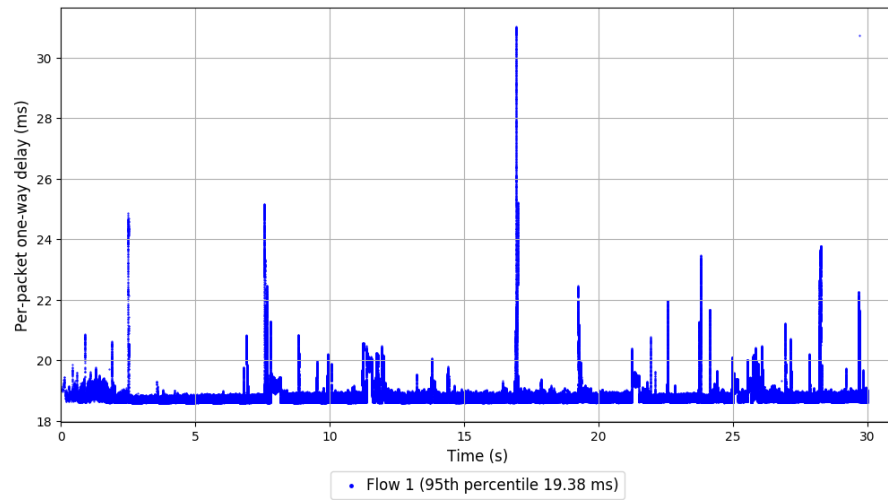
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2018-04-24 10:41:36
End at: 2018-04-24 10:42:06
Local clock offset: -0.379 ms
Remote clock offset: -5.453 ms


# Below is generated by plot.py at 2018-04-24 15:49:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.05 Mbit/s
95th percentile per-packet one-way delay: 19.281 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 322.05 Mbit/s
95th percentile per-packet one-way delay: 19.281 ms
Loss rate: 0.01%
```

Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 322.07 Mbit/s) —— Flow 1 egress (mean 322.05 Mbit/s)

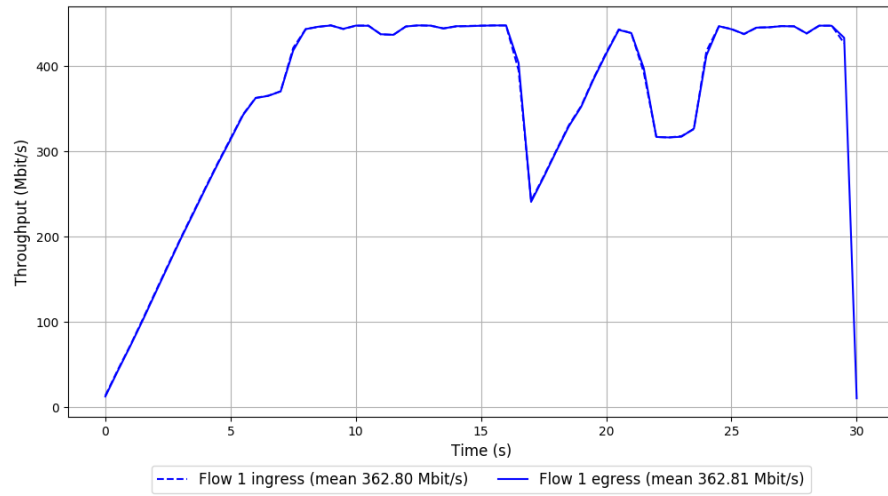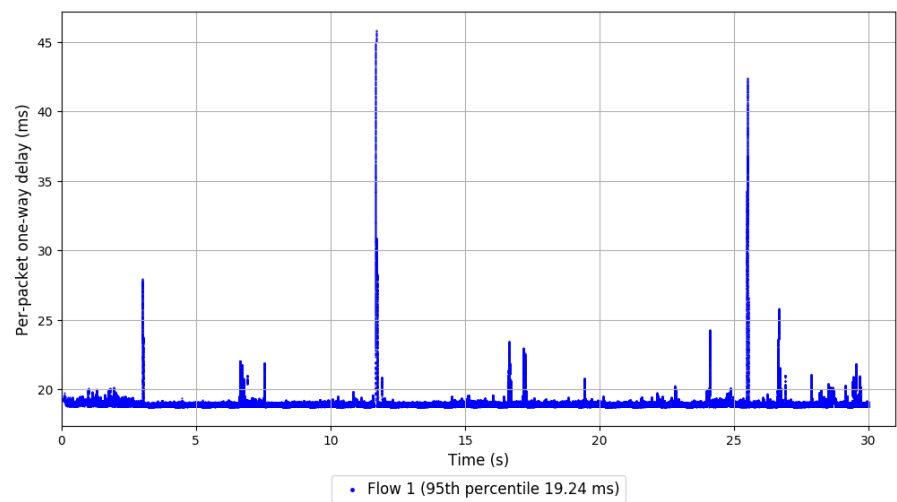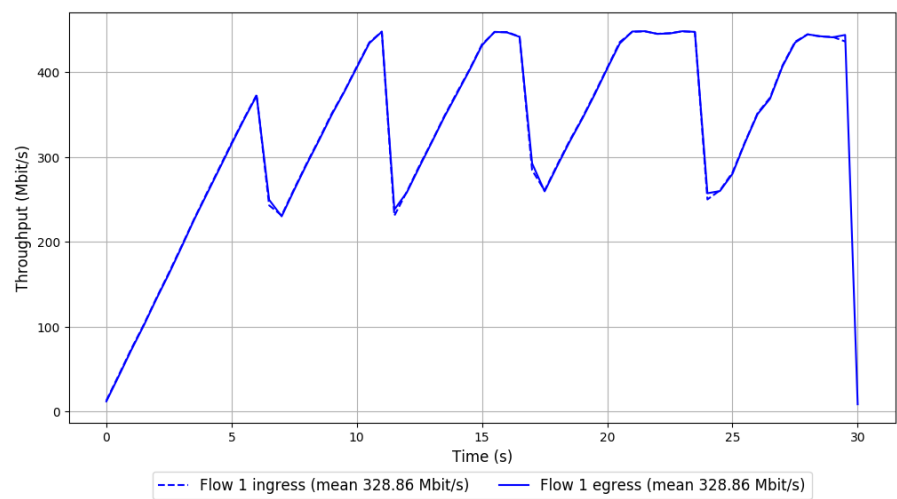• Flow 1 (95th percentile 19.28 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2018-04-24 11:06:30
End at: 2018-04-24 11:07:00
Local clock offset: 0.044 ms
Remote clock offset: -5.853 ms


# Below is generated by plot.py at 2018-04-24 15:51:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.81 Mbit/s
95th percentile per-packet one-way delay: 19.376 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 362.81 Mbit/s
95th percentile per-packet one-way delay: 19.376 ms
Loss rate: 0.00%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 362.80 Mbit/s)   Flow 1 egress (mean 362.81 Mbit/s)

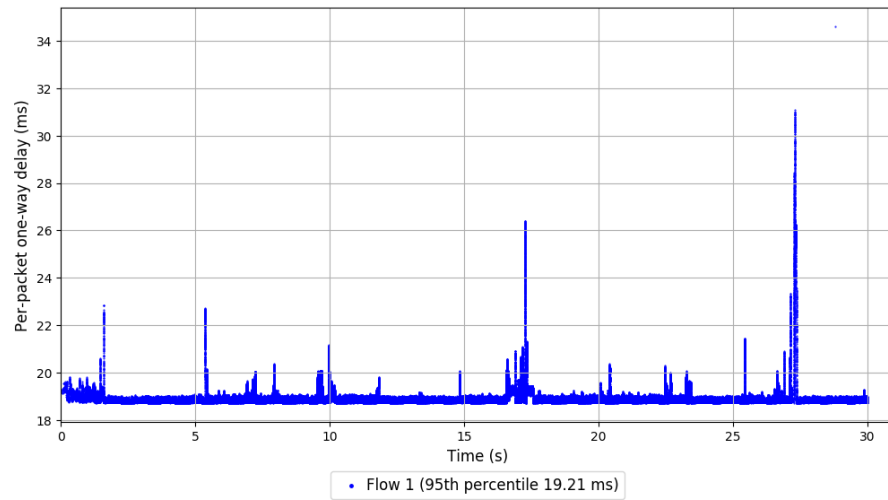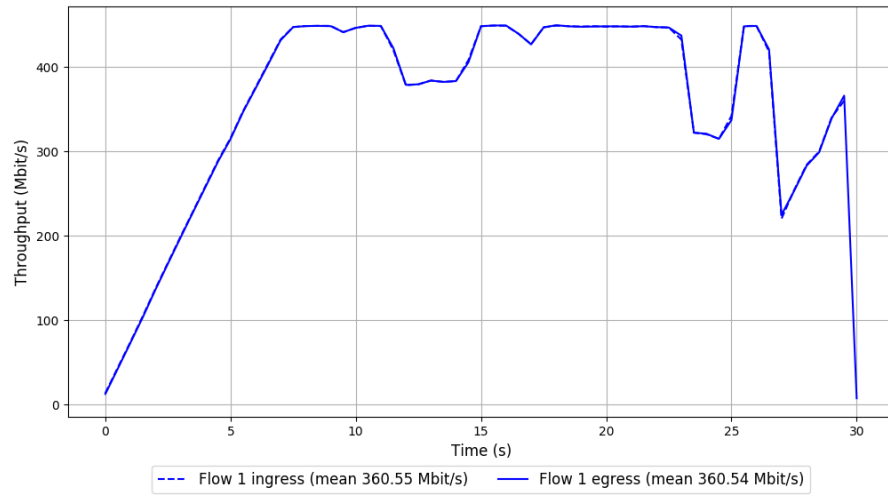Flow 1 (95th percentile 19.38 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2018-04-24 11:31:30
End at: 2018-04-24 11:32:00
Local clock offset: -0.303 ms
Remote clock offset: -6.325 ms


# Below is generated by plot.py at 2018-04-24 15:51:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 328.86 Mbit/s
95th percentile per-packet one-way delay: 19.240 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 328.86 Mbit/s
95th percentile per-packet one-way delay: 19.240 ms
Loss rate: 0.01%
```
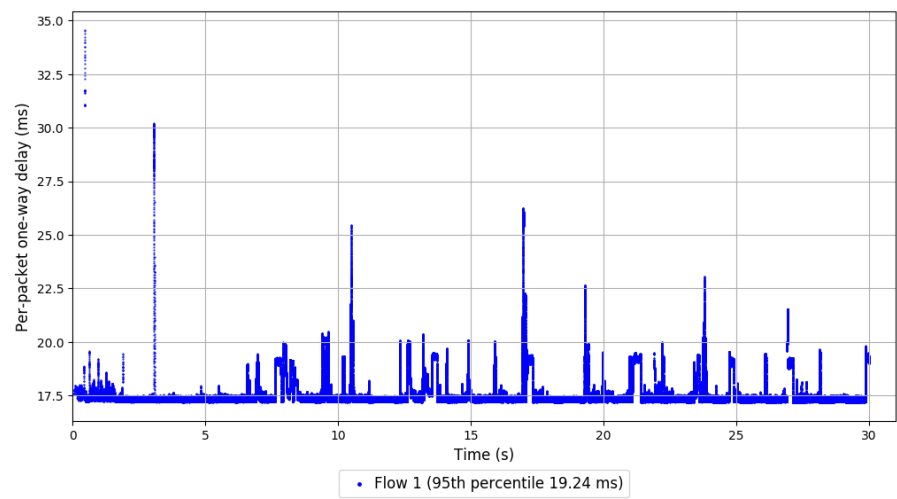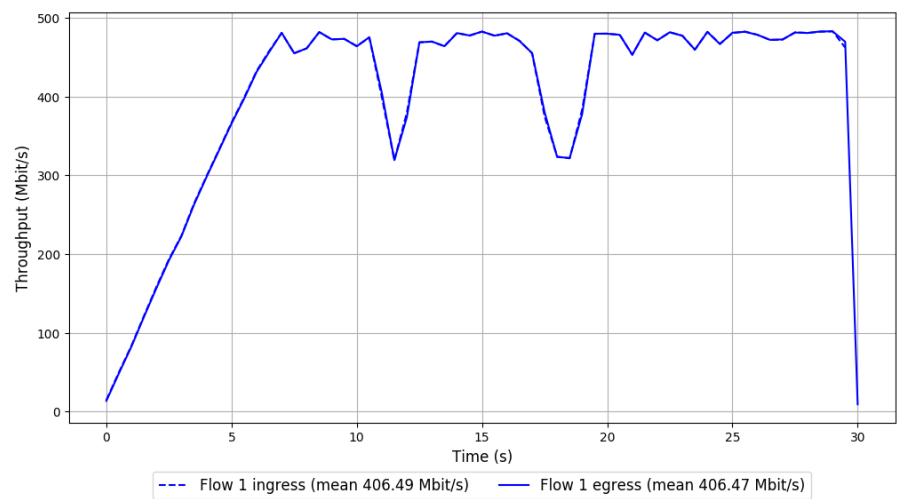
Run 6: Report of LEDBAT — Data Link

```
Run 7: Statistics of LEDBAT

Start at: 2018-04-24 11:56:40
End at: 2018-04-24 11:57:10
Local clock offset: -0.351 ms
Remote clock offset: -6.556 ms


# Below is generated by plot.py at 2018-04-24 15:52:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.54 Mbit/s
95th percentile per-packet one-way delay: 19.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 360.54 Mbit/s
95th percentile per-packet one-way delay: 19.211 ms
Loss rate: 0.00%
```
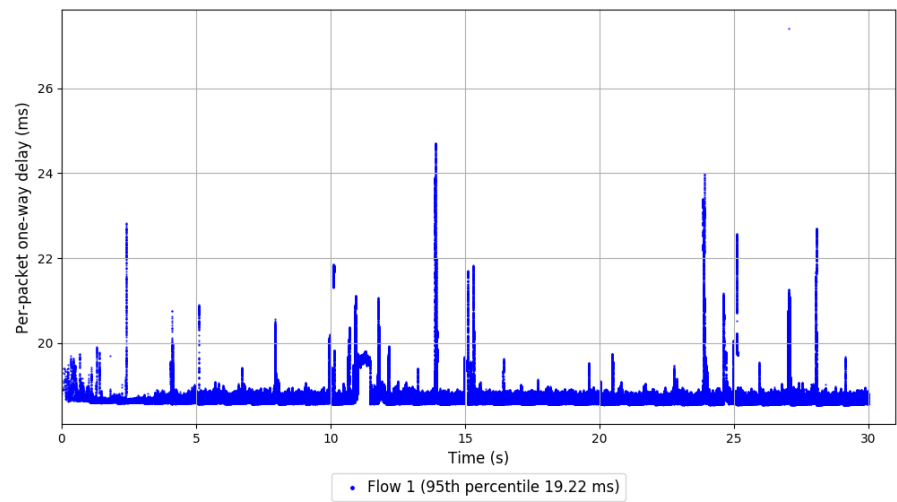
Run 7: Report of LEDBAT — Data Link

```
Run 8: Statistics of LEDBAT

Start at: 2018-04-24 12:22:06
End at: 2018-04-24 12:22:36
Local clock offset: -0.192 ms
Remote clock offset: -5.916 ms


# Below is generated by plot.py at 2018-04-24 15:53:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.47 Mbit/s
95th percentile per-packet one-way delay: 19.237 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.47 Mbit/s
95th percentile per-packet one-way delay: 19.237 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 406.49 Mbit/s) ----   Flow 1 egress (mean 406.47 Mbit/s) ——
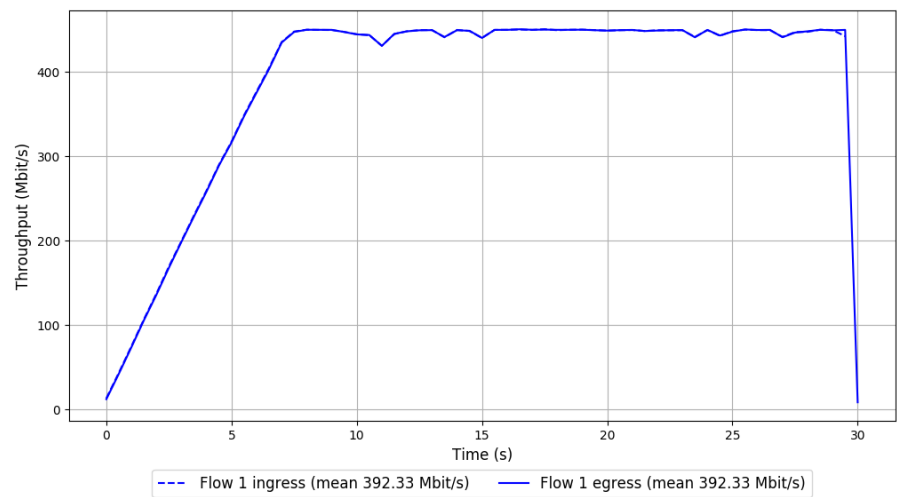

Flow 1 (95th percentile 19.24 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2018-04-24 12:47:42
End at: 2018-04-24 12:48:12
Local clock offset: -0.156 ms
Remote clock offset: -5.486 ms


# Below is generated by plot.py at 2018-04-24 15:53:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 392.33 Mbit/s
95th percentile per-packet one-way delay: 19.217 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 392.33 Mbit/s
95th percentile per-packet one-way delay: 19.217 ms
Loss rate: 0.01%
```
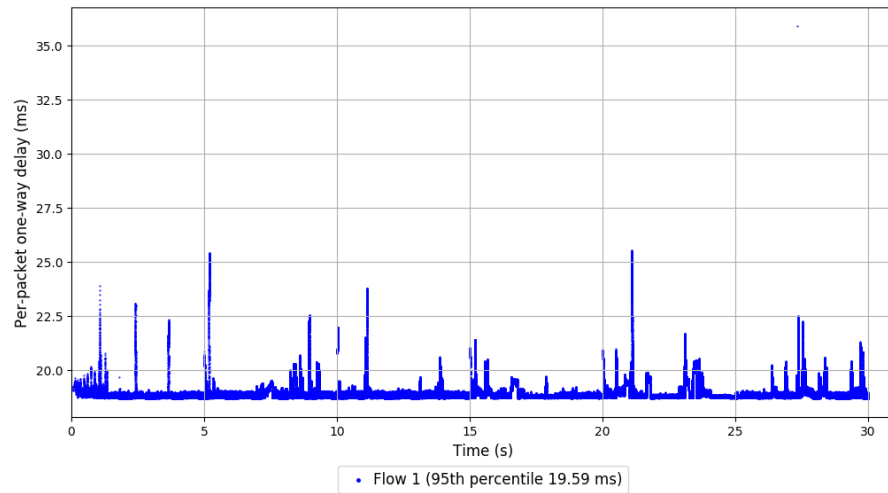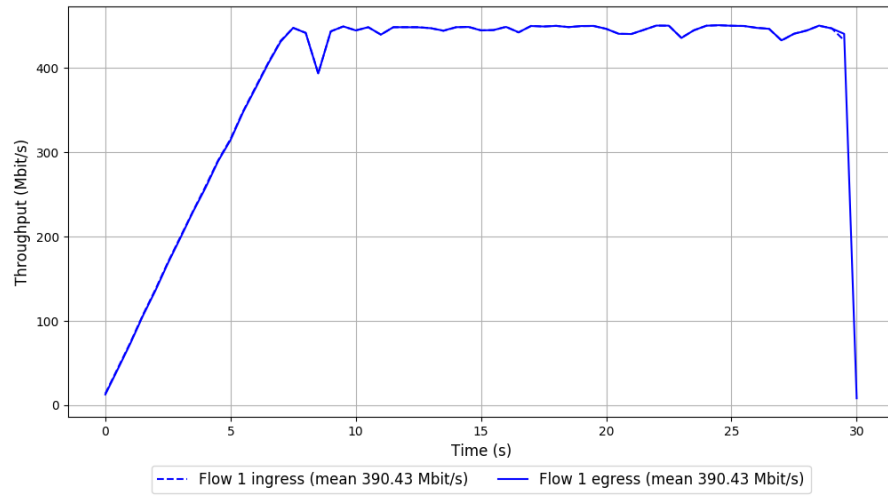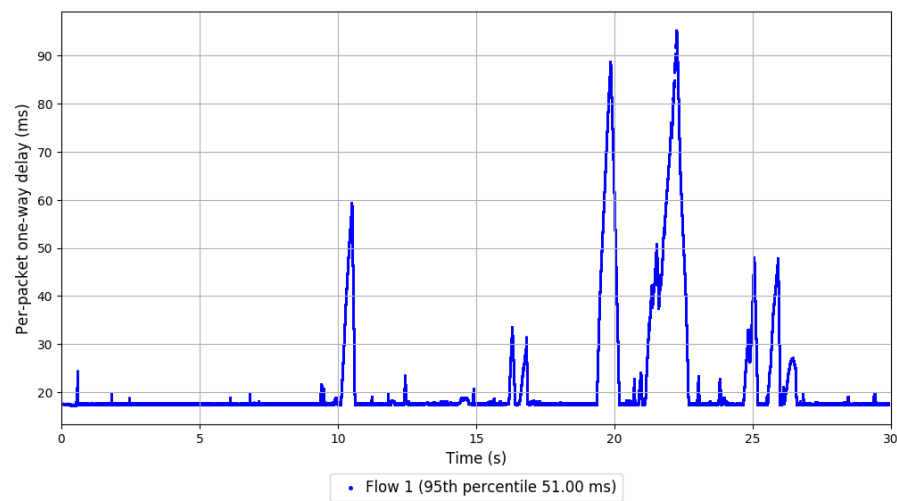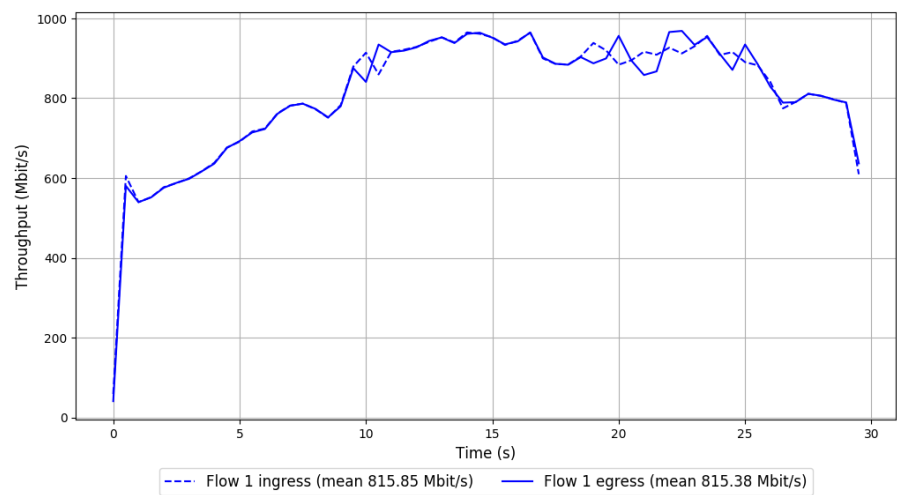
Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 392.33 Mbit/s)   Flow 1 egress (mean 392.33 Mbit/s)

Flow 1 (95th percentile 19.22 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2018-04-24 13:12:54
End at: 2018-04-24 13:13:24
Local clock offset: -0.04 ms
Remote clock offset: -4.826 ms


# Below is generated by plot.py at 2018-04-24 15:54:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.43 Mbit/s
95th percentile per-packet one-way delay: 19.585 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 390.43 Mbit/s
95th percentile per-packet one-way delay: 19.585 ms
Loss rate: 0.01%
```

Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 390.43 Mbit/s)   Flow 1 egress (mean 390.43 Mbit/s)

Flow 1 (95th percentile 19.59 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 09:19:20
End at: 2018-04-24 09:19:50
Local clock offset: -0.412 ms
Remote clock offset: -5.126 ms


# Below is generated by plot.py at 2018-04-24 15:59:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 815.38 Mbit/s
95th percentile per-packet one-way delay: 51.001 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 815.38 Mbit/s
95th percentile per-packet one-way delay: 51.001 ms
Loss rate: 0.06%
```

Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 09:44:42
End at: 2018-04-24 09:45:12
Local clock offset: -0.347 ms
Remote clock offset: -5.249 ms


# Below is generated by plot.py at 2018-04-24 16:01:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 840.26 Mbit/s
95th percentile per-packet one-way delay: 46.148 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 840.26 Mbit/s
95th percentile per-packet one-way delay: 46.148 ms
Loss rate: 0.12%
```
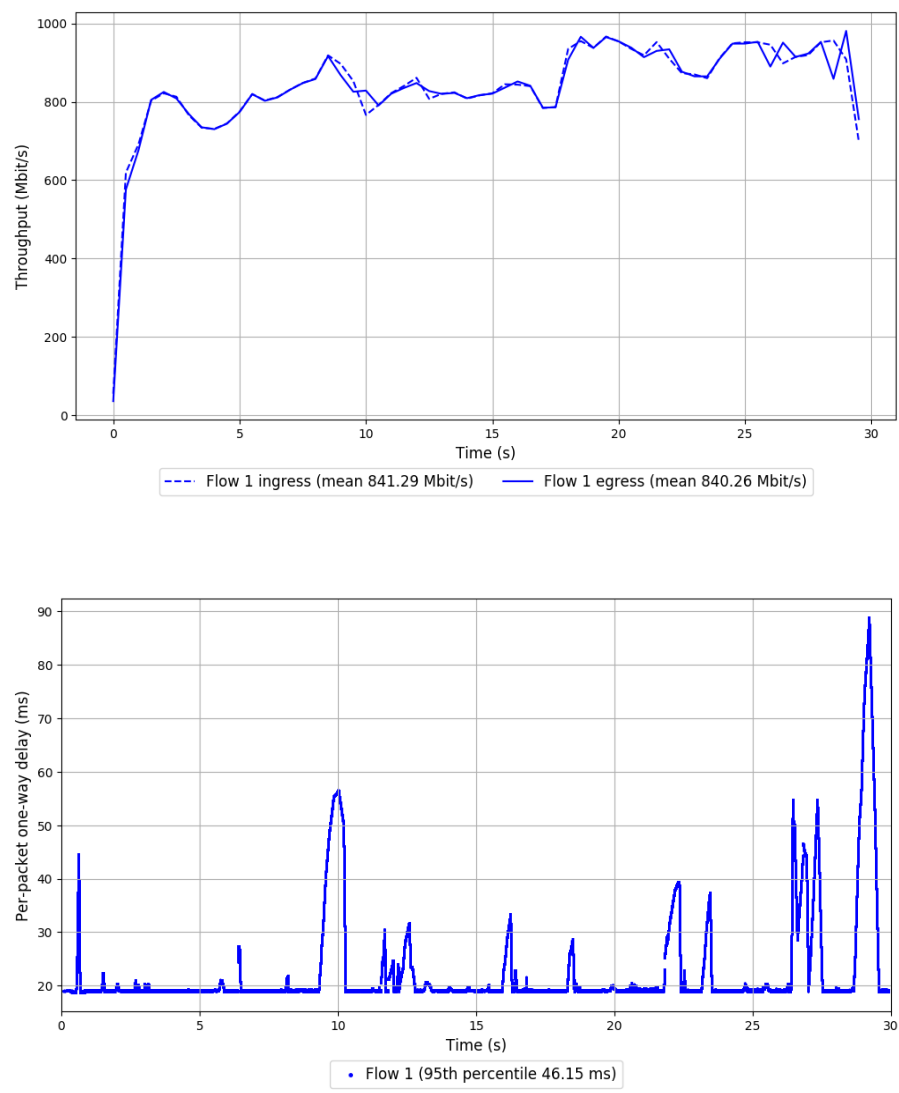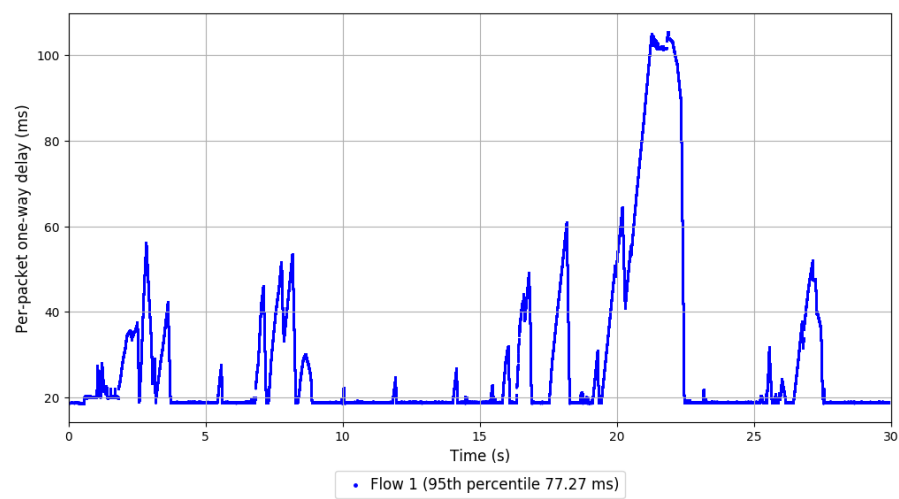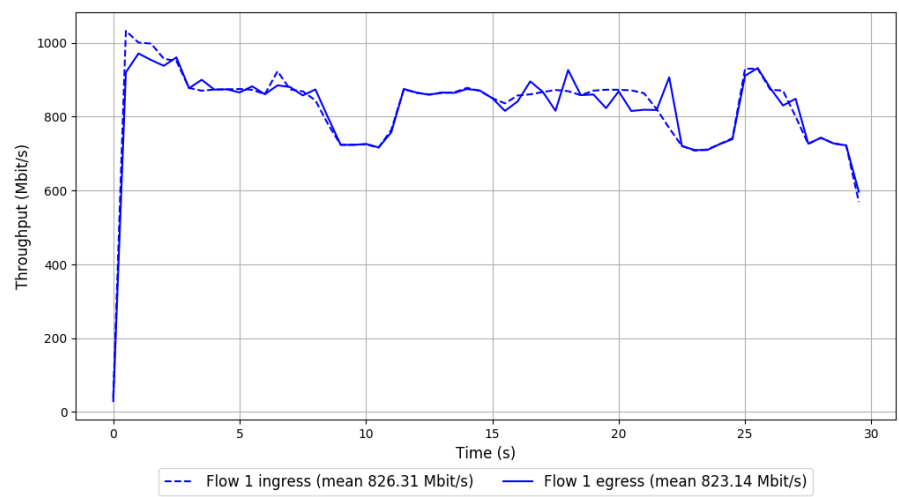
Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 841.29 Mbit/s)   Flow 1 egress (mean 840.26 Mbit/s)
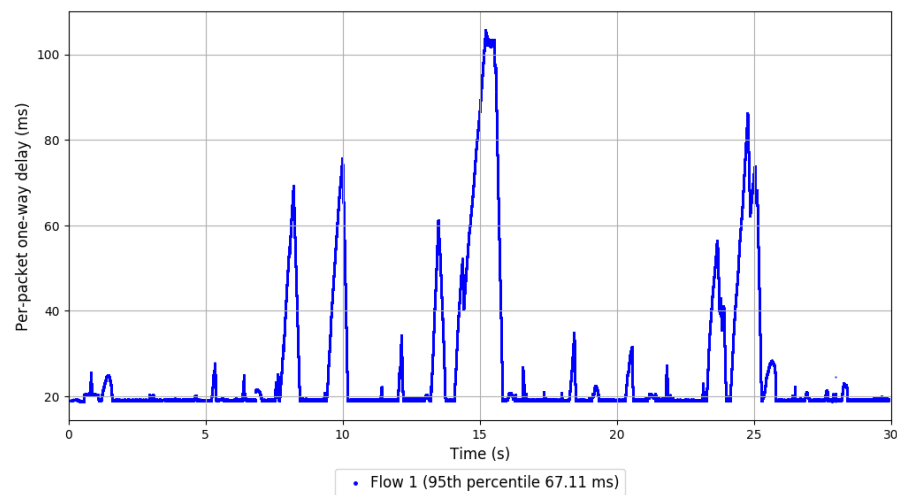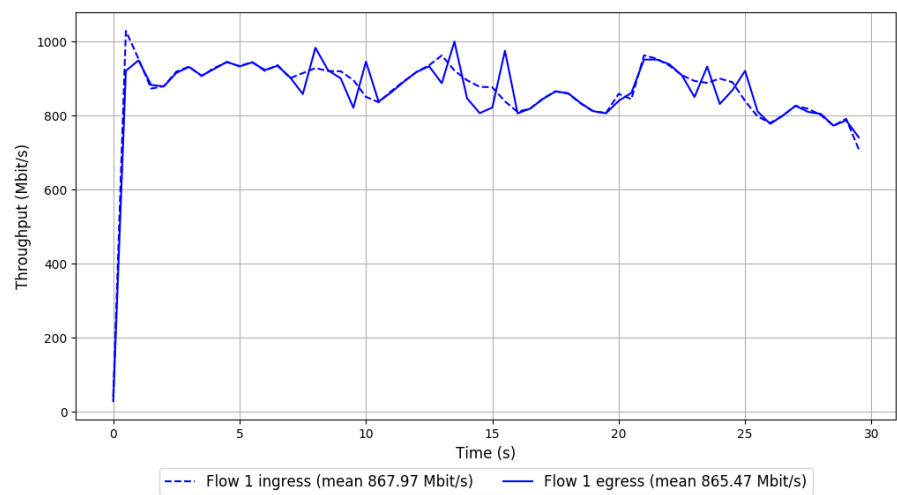

• Flow 1 (95th percentile 46.15 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 10:09:48
End at: 2018-04-24 10:10:18
Local clock offset: -0.379 ms
Remote clock offset: -5.271 ms


# Below is generated by plot.py at 2018-04-24 16:04:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 823.14 Mbit/s
95th percentile per-packet one-way delay: 77.266 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 823.14 Mbit/s
95th percentile per-packet one-way delay: 77.266 ms
Loss rate: 0.38%
```

Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 826.31 Mbit/s) --- Flow 1 egress (mean 823.14 Mbit/s)

• Flow 1 (95th percentile 77.27 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 10:35:11
End at: 2018-04-24 10:35:41
Local clock offset: -0.425 ms
Remote clock offset: -5.284 ms


# Below is generated by plot.py at 2018-04-24 16:05:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 865.47 Mbit/s
95th percentile per-packet one-way delay: 67.115 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 865.47 Mbit/s
95th percentile per-packet one-way delay: 67.115 ms
Loss rate: 0.29%
```
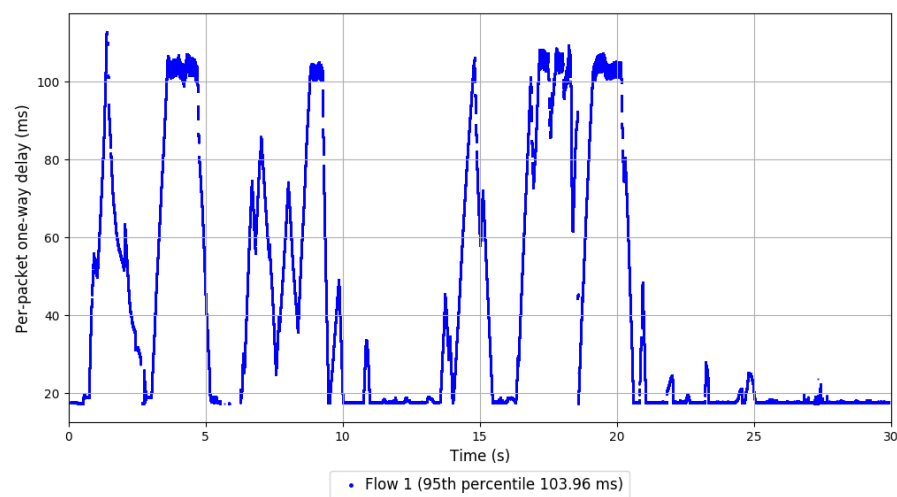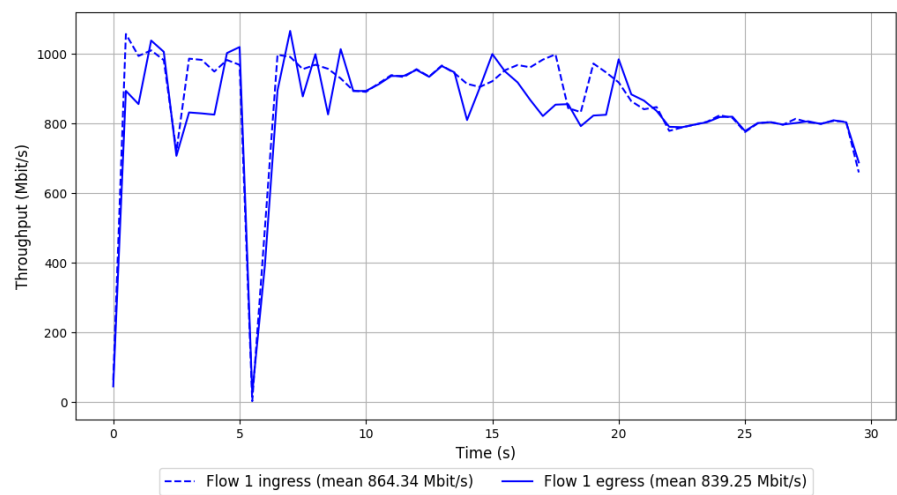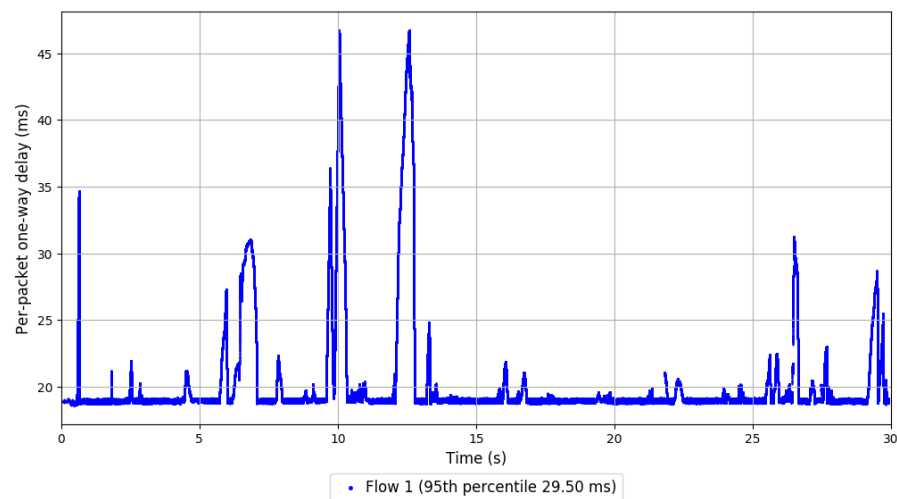
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 867.97 Mbit/s) --- Flow 1 egress (mean 865.47 Mbit/s)
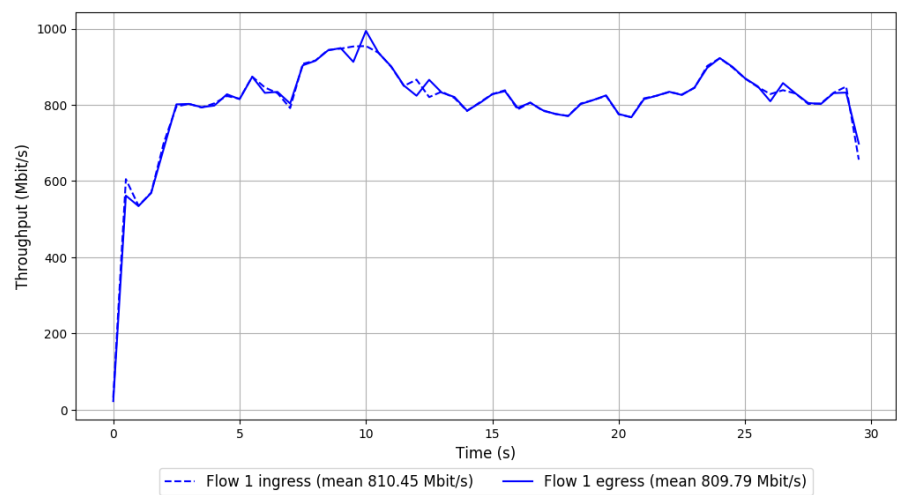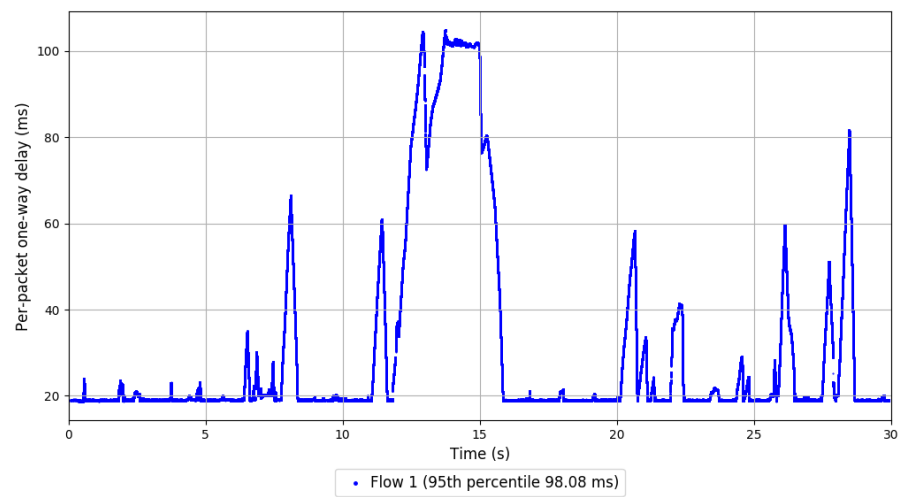

Flow 1 (95th percentile 67.11 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 11:00:07
End at: 2018-04-24 11:00:37
Local clock offset: -0.13 ms
Remote clock offset: -5.724 ms


# Below is generated by plot.py at 2018-04-24 16:05:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 839.25 Mbit/s
95th percentile per-packet one-way delay: 103.958 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 839.25 Mbit/s
95th percentile per-packet one-way delay: 103.958 ms
Loss rate: 2.90%
```
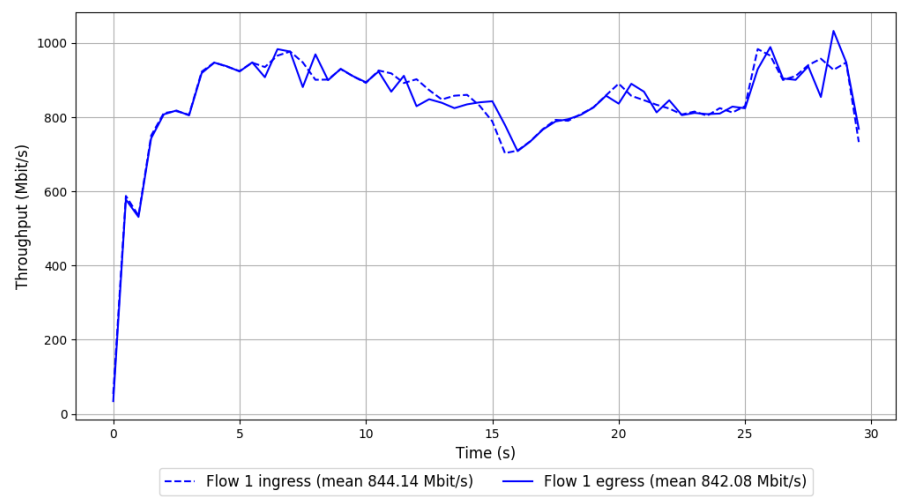
Run 5: Report of PCC-Allegro — Data Link

```
Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 11:25:11
End at: 2018-04-24 11:25:41
Local clock offset: -0.089 ms
Remote clock offset: -6.247 ms


# Below is generated by plot.py at 2018-04-24 16:06:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 809.79 Mbit/s
95th percentile per-packet one-way delay: 29.495 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 809.79 Mbit/s
95th percentile per-packet one-way delay: 29.495 ms
Loss rate: 0.08%
```

Run 6: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 810.45 Mbit/s)   Flow 1 egress (mean 809.79 Mbit/s)

Flow 1 (95th percentile 29.50 ms)

```
Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 11:50:15
End at: 2018-04-24 11:50:45
Local clock offset: -0.325 ms
Remote clock offset: -6.476 ms


# Below is generated by plot.py at 2018-04-24 16:07:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 842.08 Mbit/s
95th percentile per-packet one-way delay: 98.077 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 842.08 Mbit/s
95th percentile per-packet one-way delay: 98.077 ms
Loss rate: 0.24%
```
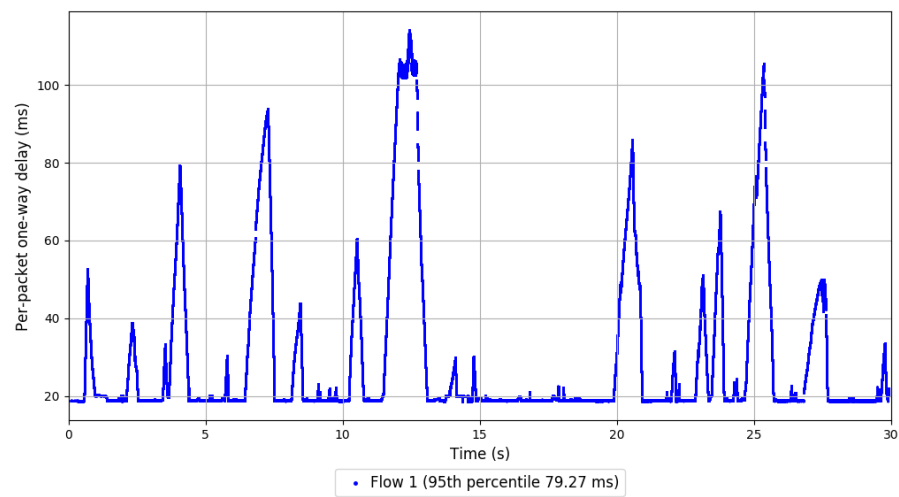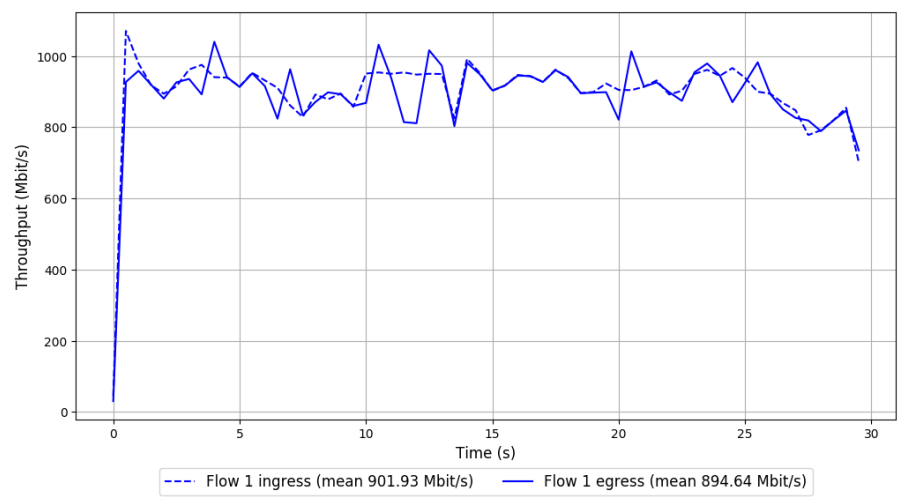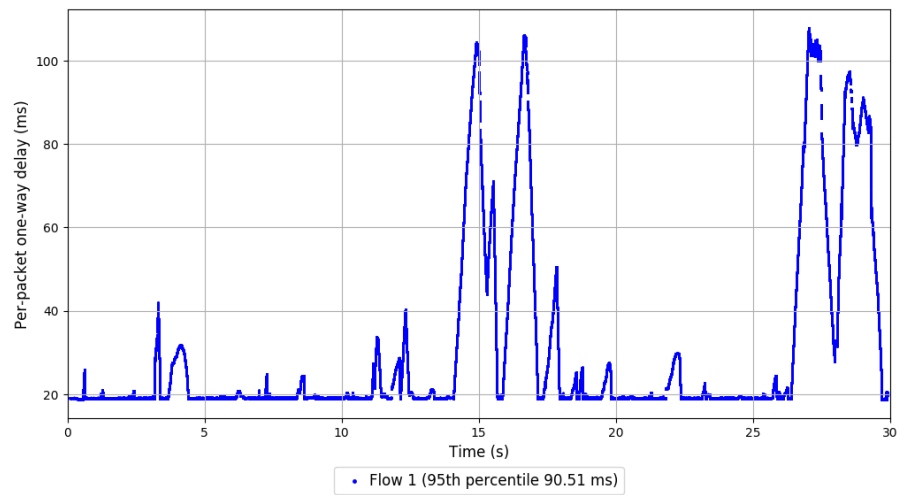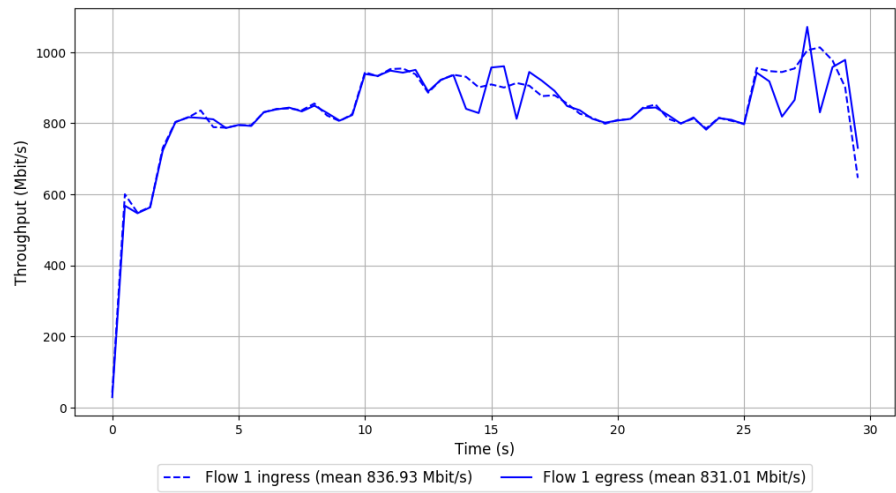
Run 7: Report of PCC-Allegro — Data Link

```
Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 12:15:44
End at: 2018-04-24 12:16:14
Local clock offset: -0.11 ms
Remote clock offset: -6.402 ms


# Below is generated by plot.py at 2018-04-24 16:08:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 894.64 Mbit/s
95th percentile per-packet one-way delay: 79.265 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 894.64 Mbit/s
95th percentile per-packet one-way delay: 79.265 ms
Loss rate: 0.81%
```
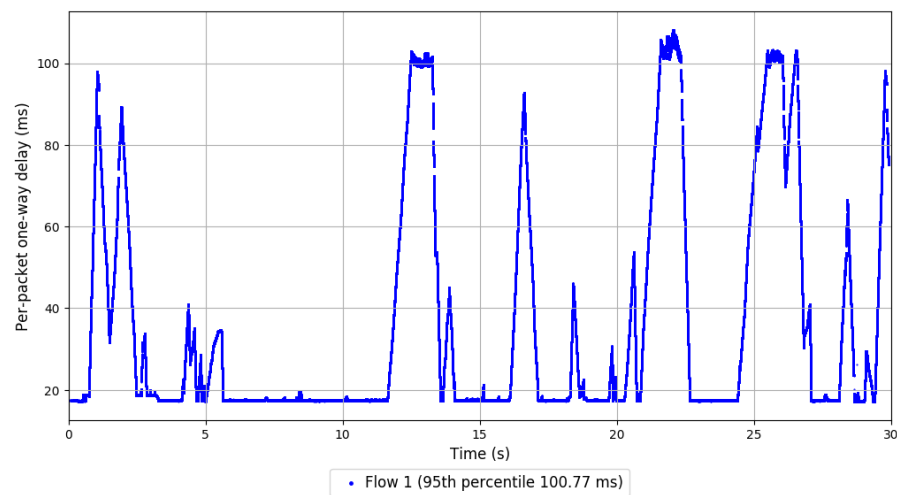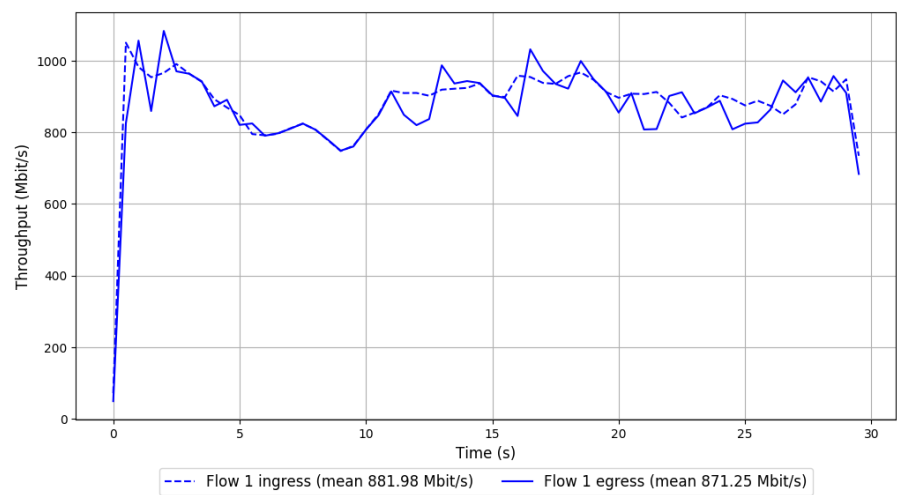
Run 8: Report of PCC-Allegro — Data Link

```
Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 12:41:15
End at: 2018-04-24 12:41:45
Local clock offset: -0.145 ms
Remote clock offset: -5.428 ms


# Below is generated by plot.py at 2018-04-24 16:13:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 831.01 Mbit/s
95th percentile per-packet one-way delay: 90.512 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 831.01 Mbit/s
95th percentile per-packet one-way delay: 90.512 ms
Loss rate: 0.71%
```

Run 9: Report of PCC-Allegro — Data Link
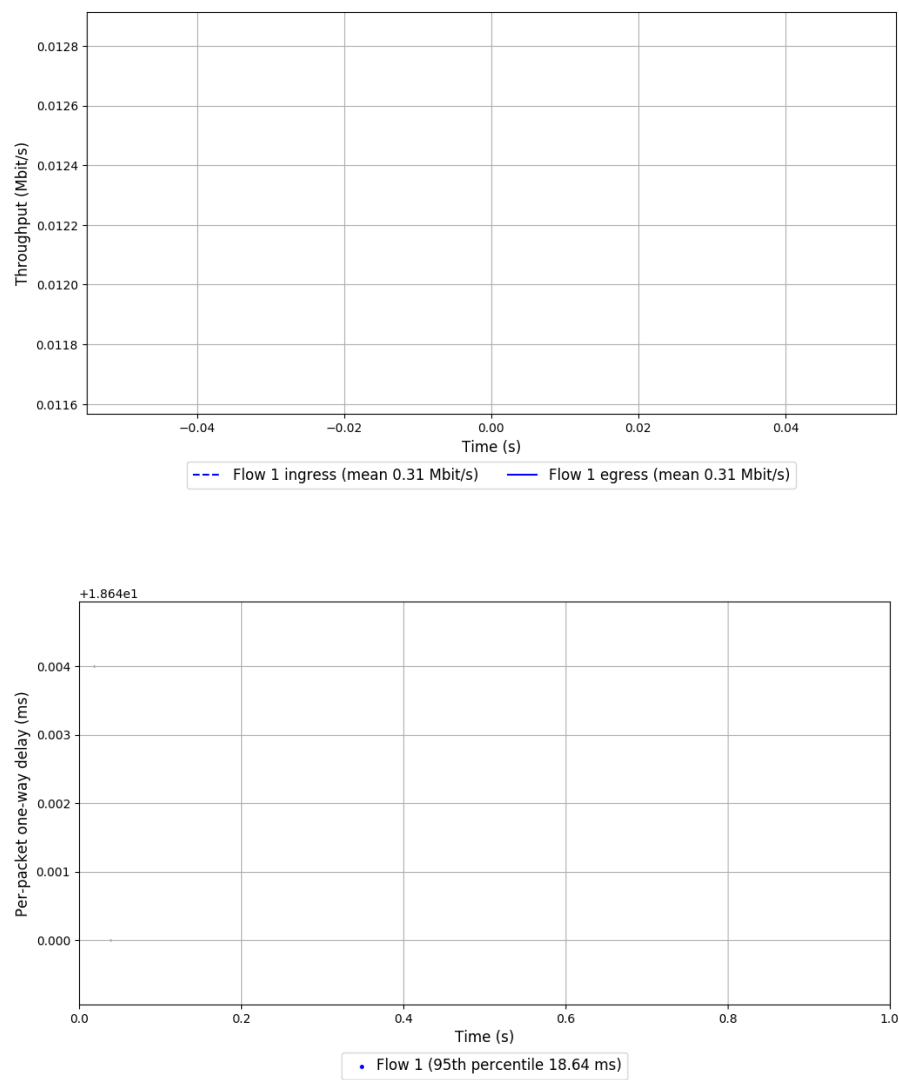
```
Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 13:06:27
End at: 2018-04-24 13:06:57
Local clock offset: -0.036 ms
Remote clock offset: -4.998 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 871.25 Mbit/s
95th percentile per-packet one-way delay: 100.772 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 871.25 Mbit/s
95th percentile per-packet one-way delay: 100.772 ms
Loss rate: 1.22%
```
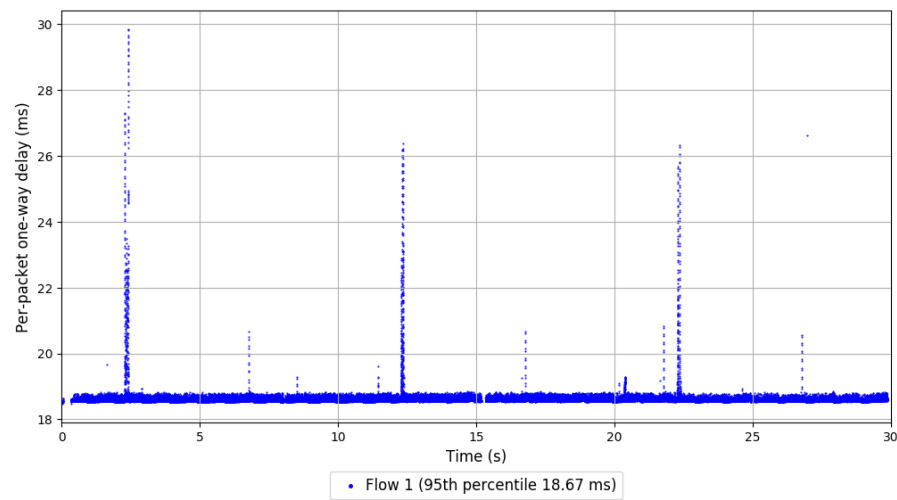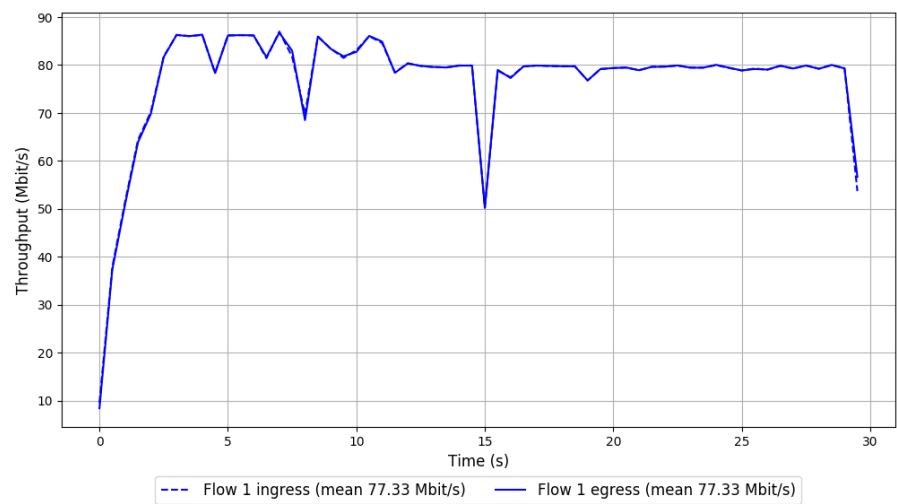
Run 10: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 09:33:34
End at: 2018-04-24 09:34:04
Local clock offset: -0.328 ms
Remote clock offset: -5.273 ms
```

Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.31 Mbit/s)   Flow 1 egress (mean 0.31 Mbit/s)

Flow 1 (95th percentile 18.64 ms)

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 09:58:36
End at: 2018-04-24 09:59:06
Local clock offset: -0.348 ms
Remote clock offset: -5.317 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 18.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.33 Mbit/s
95th percentile per-packet one-way delay: 18.668 ms
Loss rate: 0.00%
```
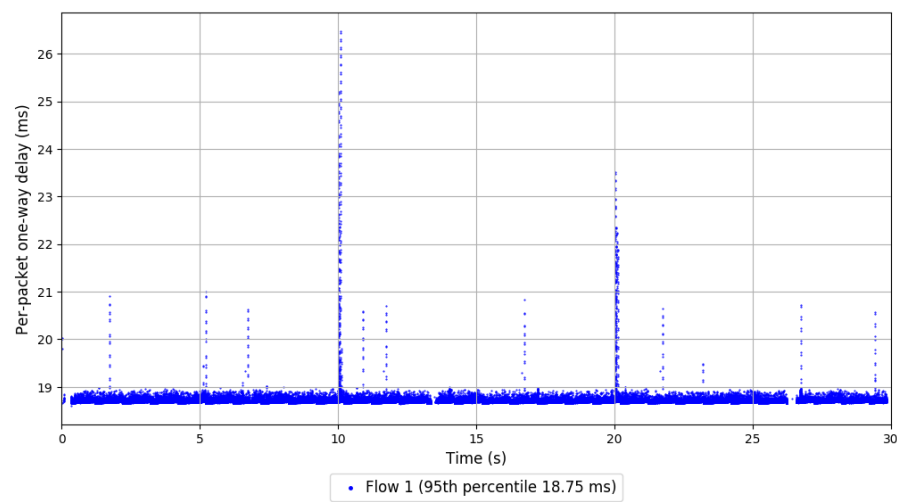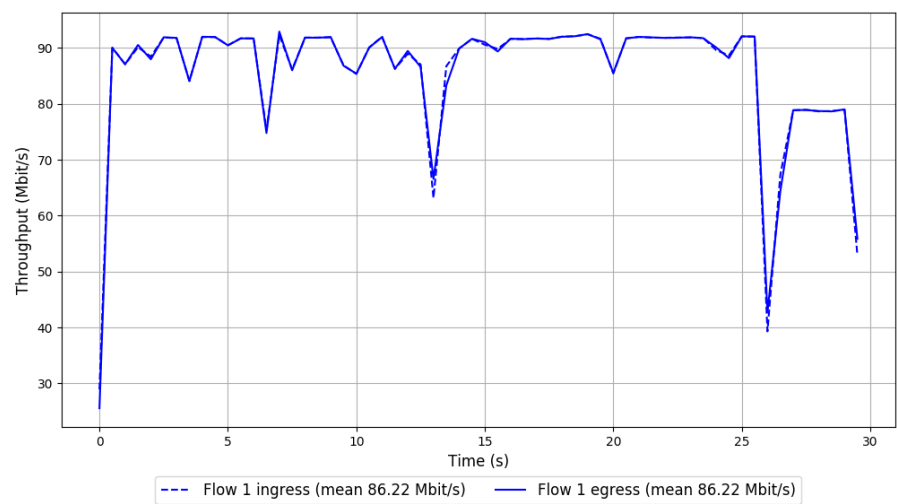
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 77.33 Mbit/s)   Flow 1 egress (mean 77.33 Mbit/s)

Flow 1 (95th percentile 18.67 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 10:23:58
End at: 2018-04-24 10:24:28
Local clock offset: -0.353 ms
Remote clock offset: -5.09 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 18.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.22 Mbit/s
95th percentile per-packet one-way delay: 18.745 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 10:48:58
End at: 2018-04-24 10:49:28
Local clock offset: -0.262 ms
Remote clock offset: -5.552 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 18.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.79 Mbit/s
95th percentile per-packet one-way delay: 18.803 ms
Loss rate: 0.00%
```
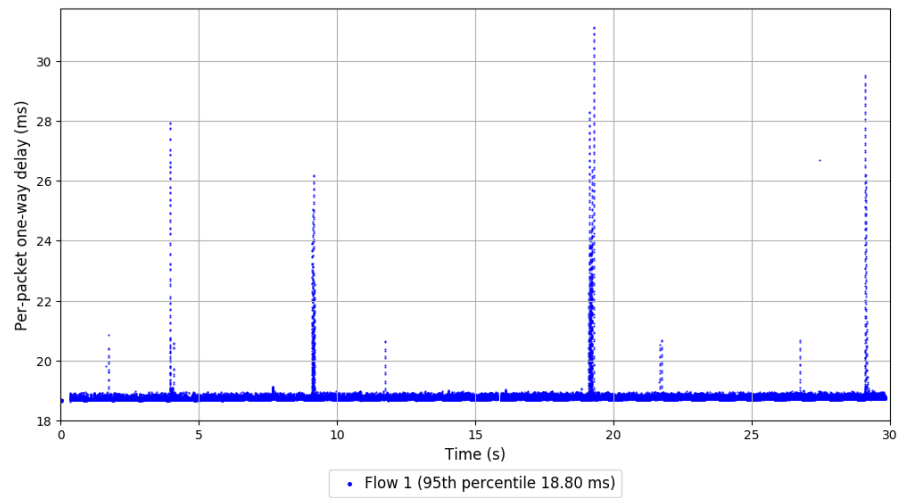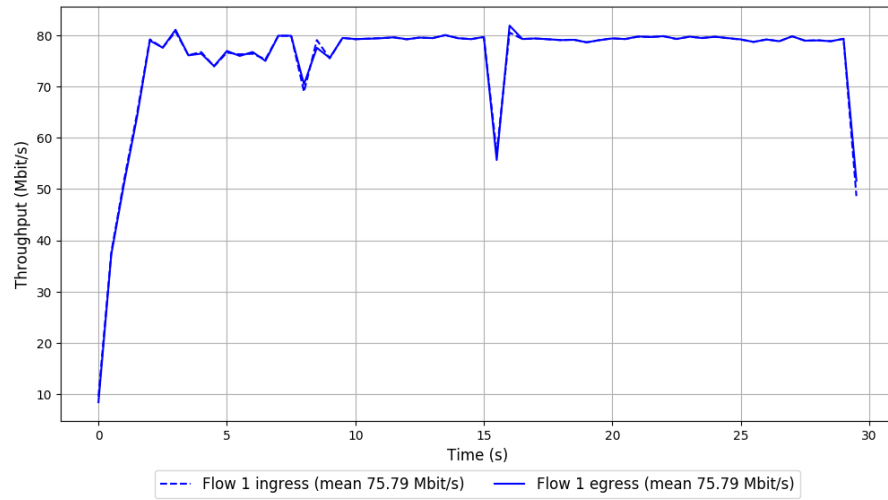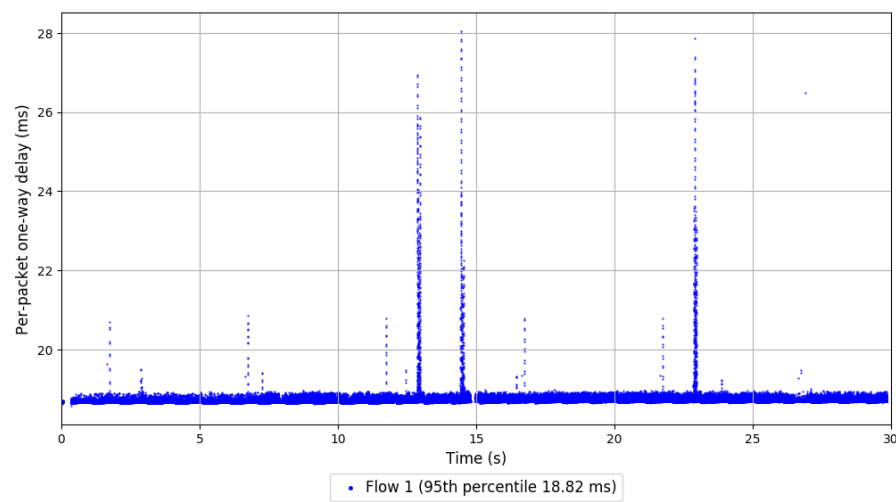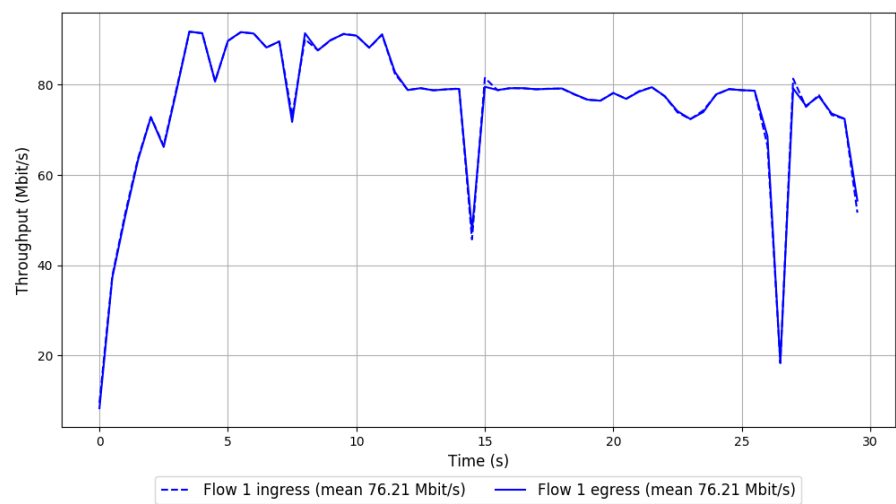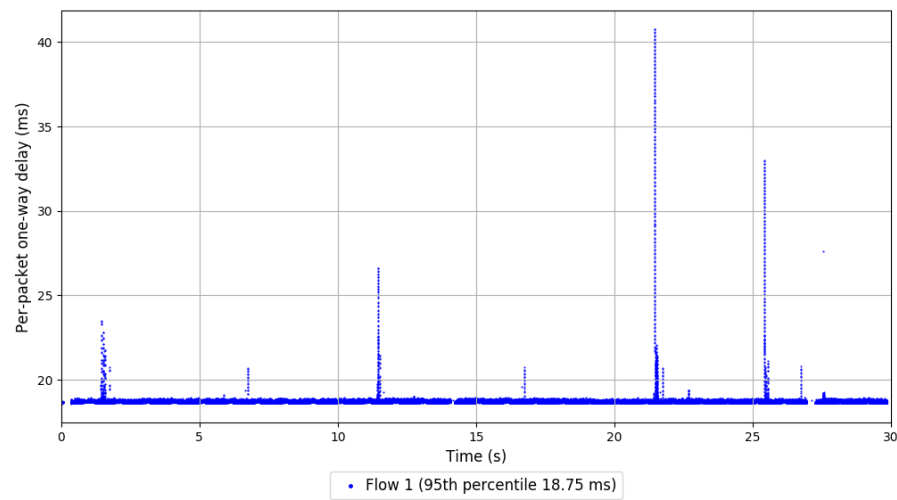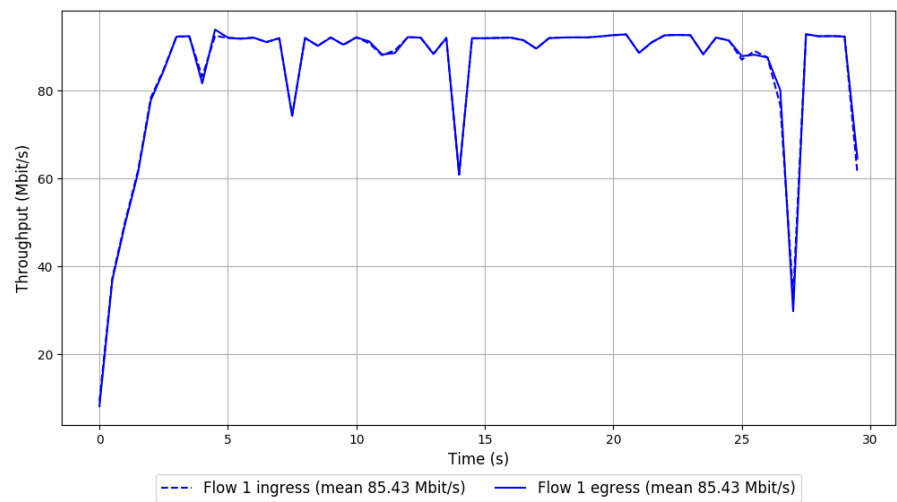
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 75.79 Mbit/s) — Flow 1 egress (mean 75.79 Mbit/s)

• Flow 1 (95th percentile 18.80 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 11:13:54
End at: 2018-04-24 11:14:24
Local clock offset: 0.03 ms
Remote clock offset: -6.097 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 18.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.21 Mbit/s
95th percentile per-packet one-way delay: 18.817 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 76.21 Mbit/s)   Flow 1 egress (mean 76.21 Mbit/s)

Flow 1 (95th percentile 18.82 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 11:38:55
End at: 2018-04-24 11:39:25
Local clock offset: -0.274 ms
Remote clock offset: -6.446 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 18.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 18.750 ms
Loss rate: 0.00%
```
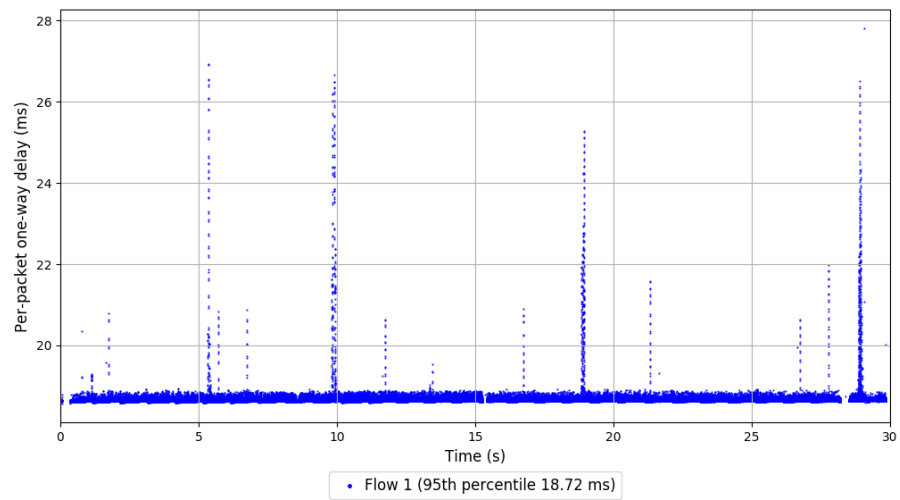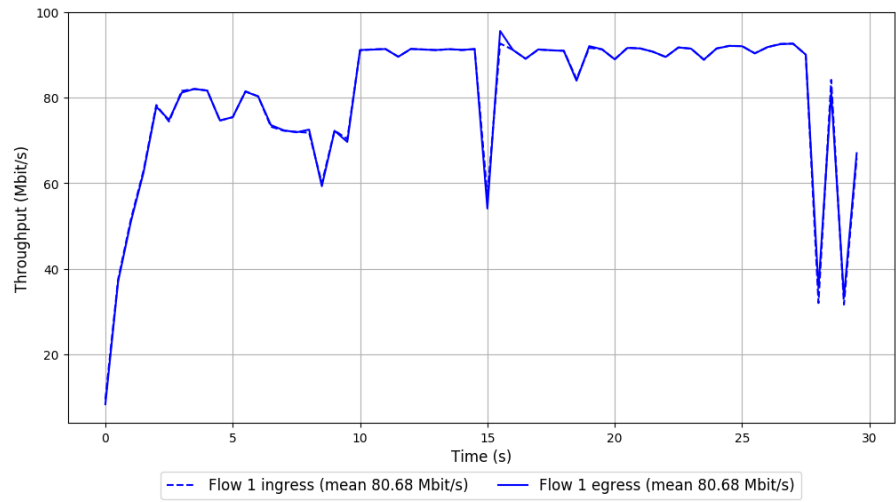
Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 85.43 Mbit/s) ----   Flow 1 egress (mean 85.43 Mbit/s) ——

• Flow 1 (95th percentile 18.75 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 12:04:28
End at: 2018-04-24 12:04:58
Local clock offset: -0.204 ms
Remote clock offset: -6.618 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 18.716 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 18.716 ms
Loss rate: 0.00%
```
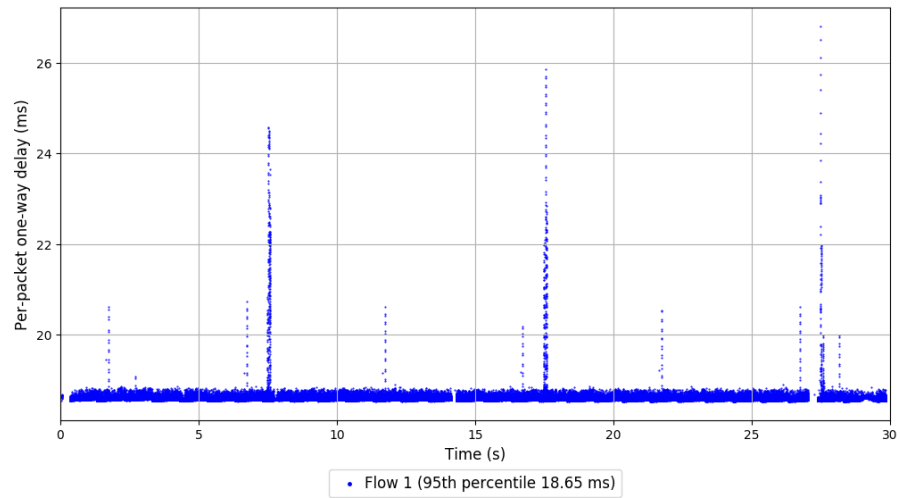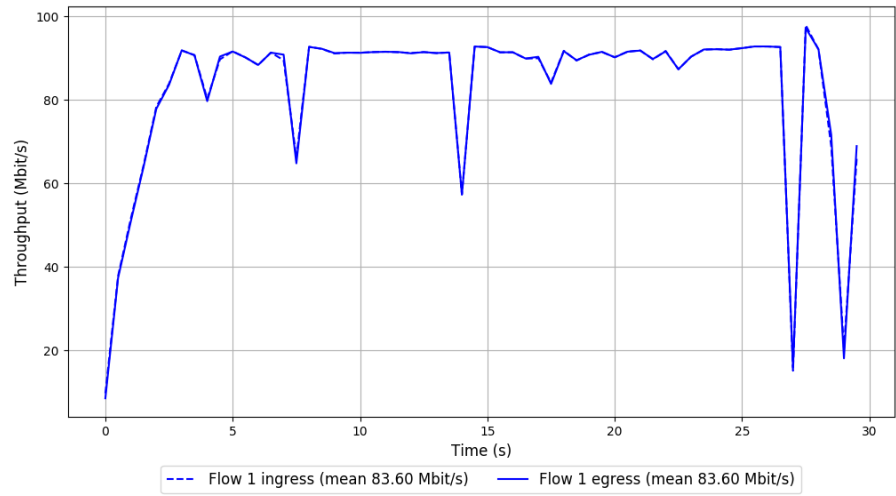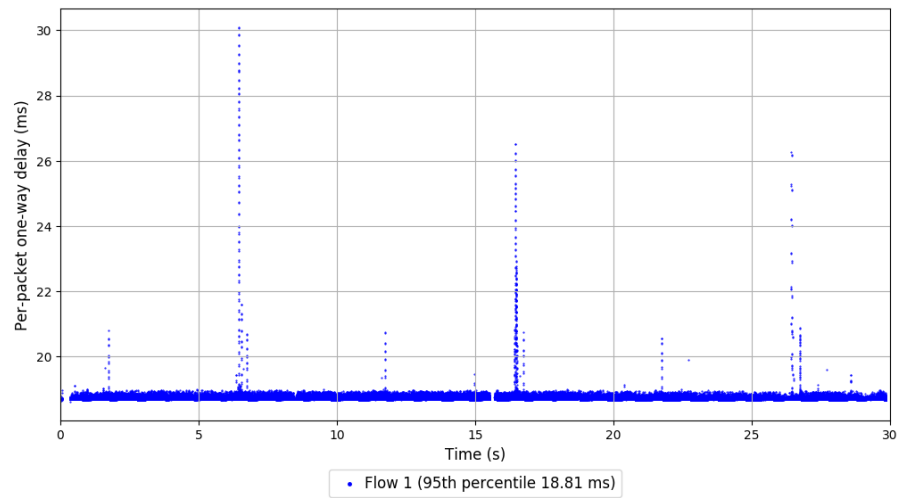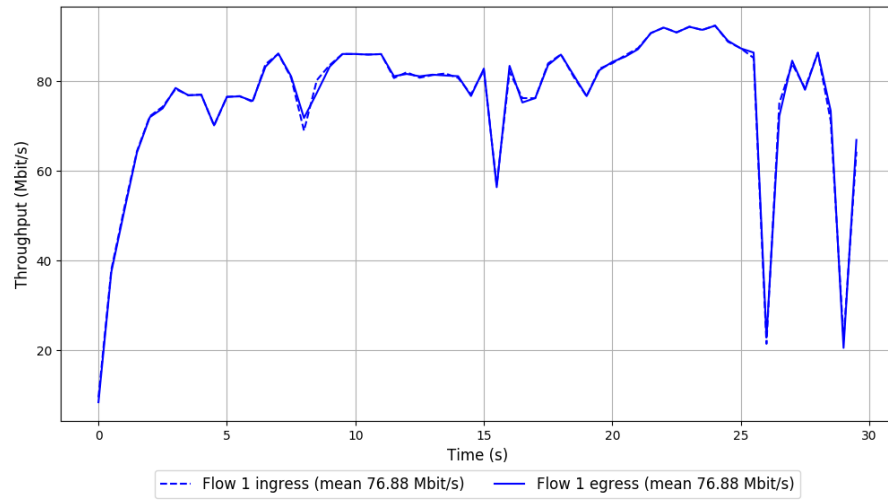
Run 7: Report of QUIC Cubic — Data Link

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 12:29:58
End at: 2018-04-24 12:30:29
Local clock offset: -0.108 ms
Remote clock offset: -5.622 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.60 Mbit/s
95th percentile per-packet one-way delay: 18.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.60 Mbit/s
95th percentile per-packet one-way delay: 18.653 ms
Loss rate: 0.00%
```

Run 8: Report of QUIC Cubic — Data Link

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 12:55:09
End at: 2018-04-24 12:55:39
Local clock offset: -0.257 ms
Remote clock offset: -5.157 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 18.807 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.88 Mbit/s
95th percentile per-packet one-way delay: 18.807 ms
Loss rate: 0.00%
```
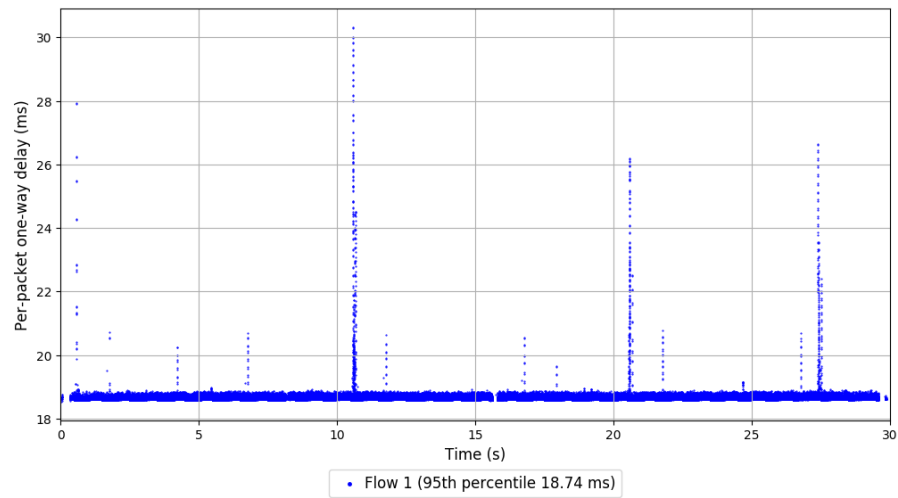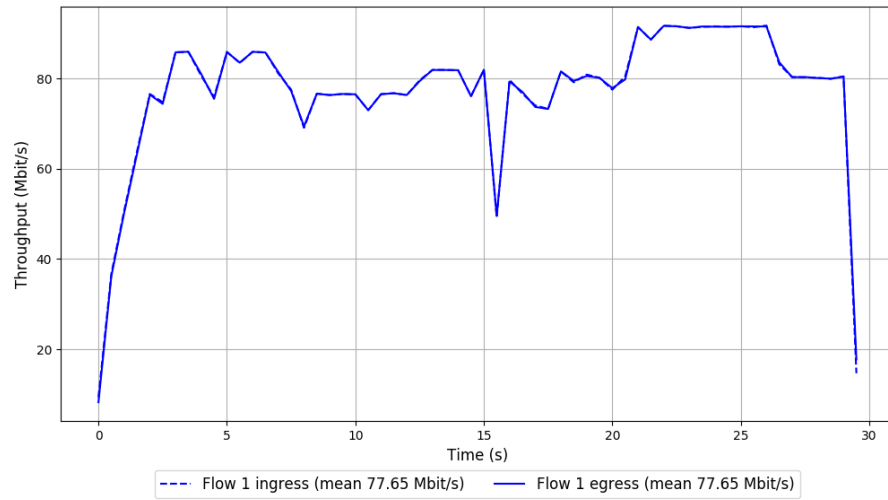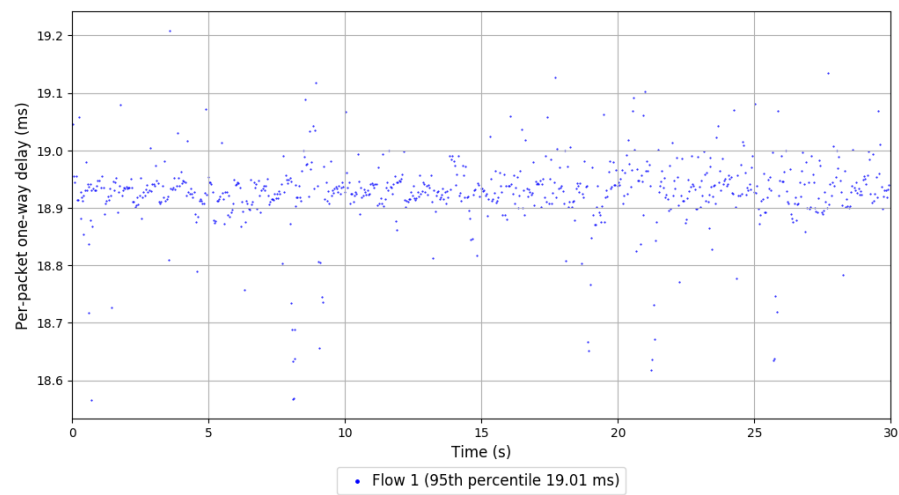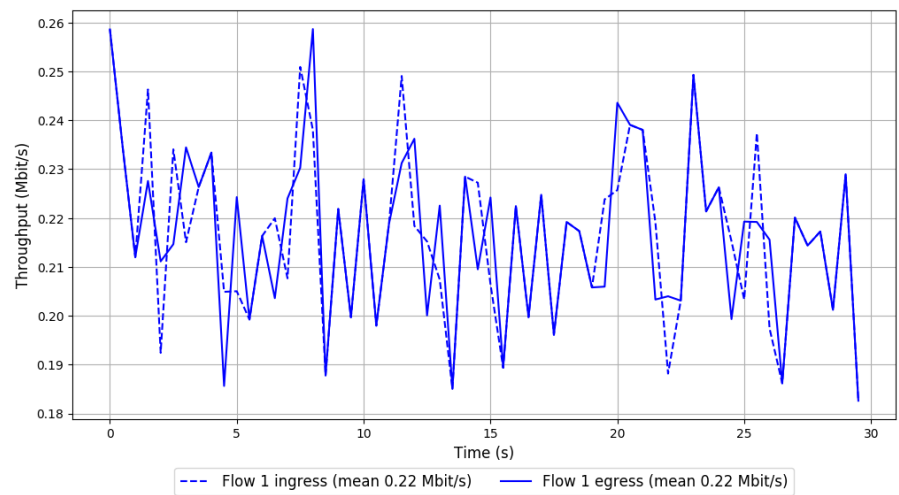
Run 9: Report of QUIC Cubic — Data Link

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

Flow 1 (95th percentile 18.81 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 13:20:45
End at: 2018-04-24 13:21:15
Local clock offset: 0.108 ms
Remote clock offset: -4.795 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 18.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 18.739 ms
Loss rate: 0.00%
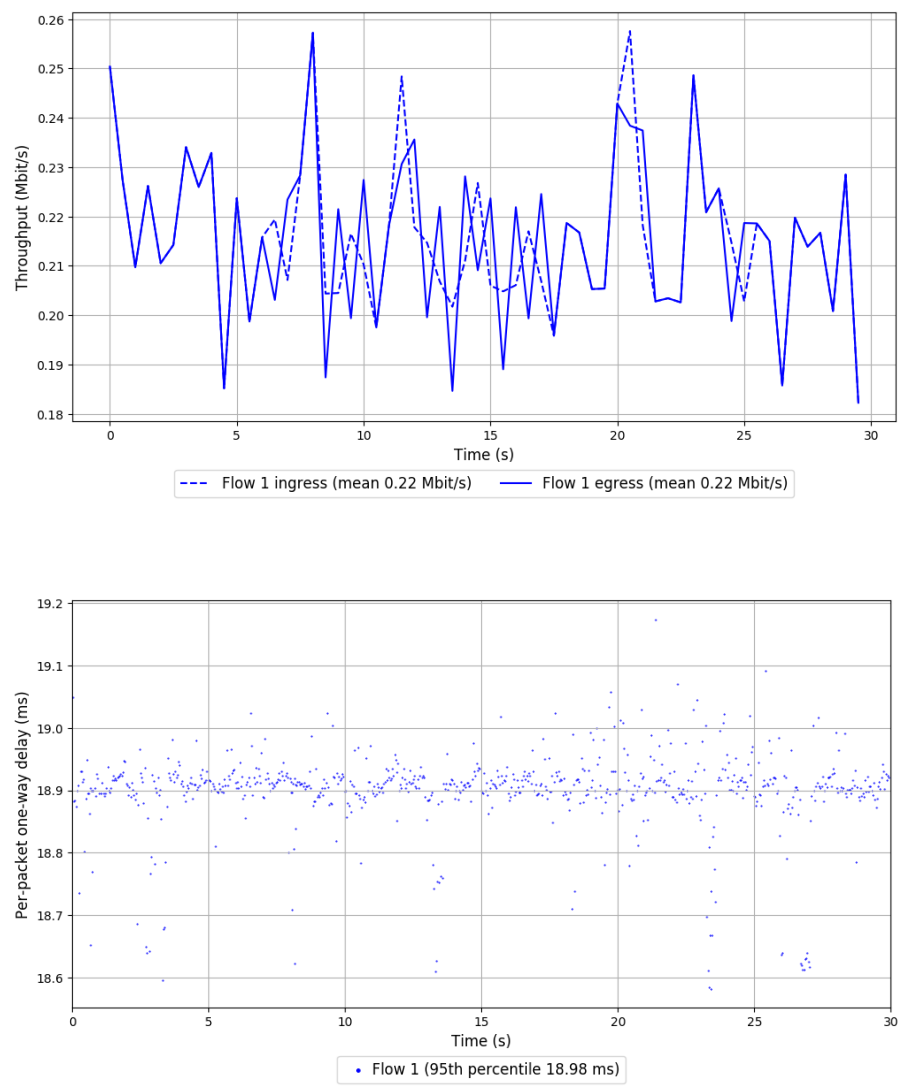```

Run 10: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 09:36:10
End at: 2018-04-24 09:36:40
Local clock offset: -0.269 ms
Remote clock offset: -5.291 ms

Below is generated by plot.py at 2018-04-24 16:16:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.006 ms
Loss rate: 0.00%
```
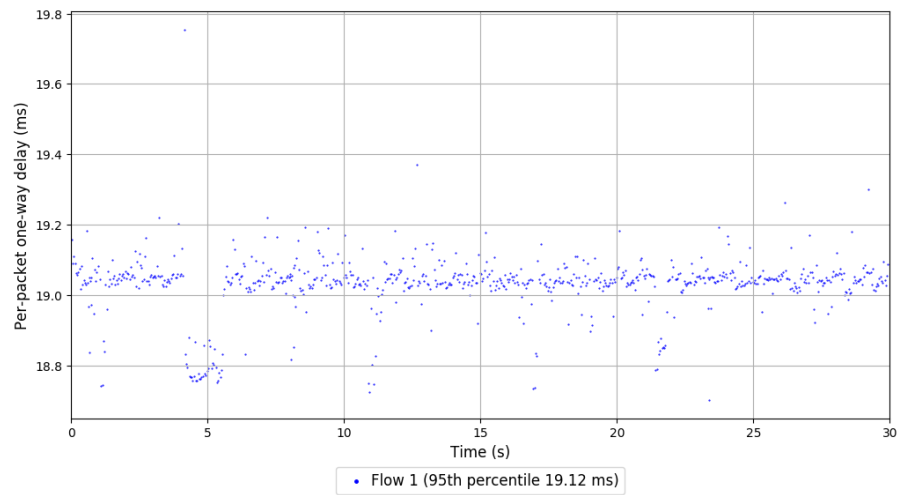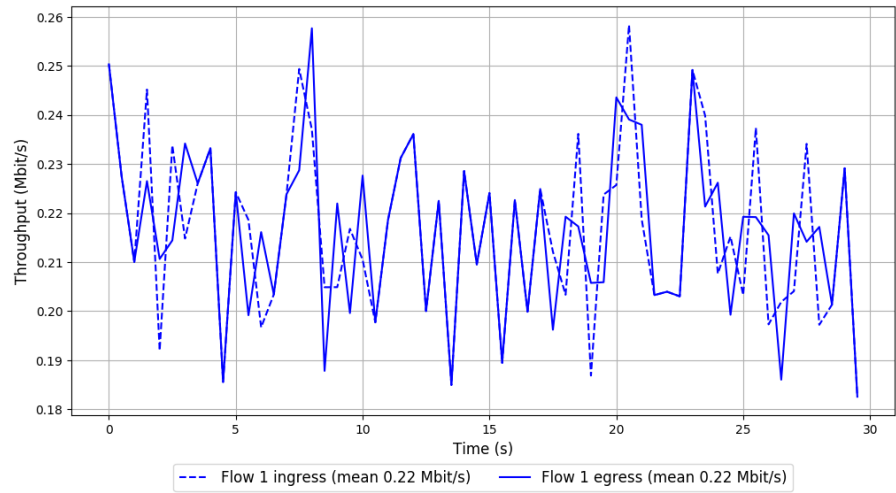
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2018-04-24 10:01:15
End at: 2018-04-24 10:01:45
Local clock offset: -0.396 ms
Remote clock offset: -5.293 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.980 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.980 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 18.98 ms)

```
Run 3: Statistics of SCReAM

Start at: 2018-04-24 10:26:37
End at: 2018-04-24 10:27:07
Local clock offset: -0.466 ms
Remote clock offset: -5.145 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.121 ms
Loss rate: 0.00%
```
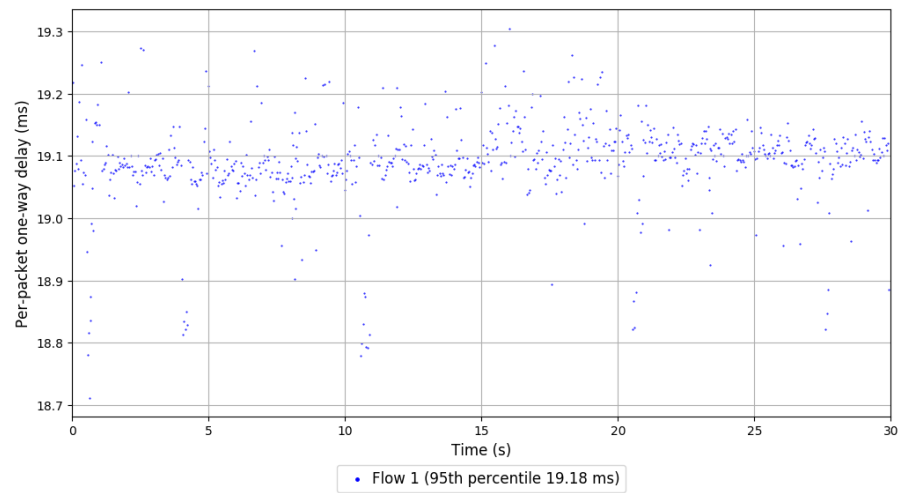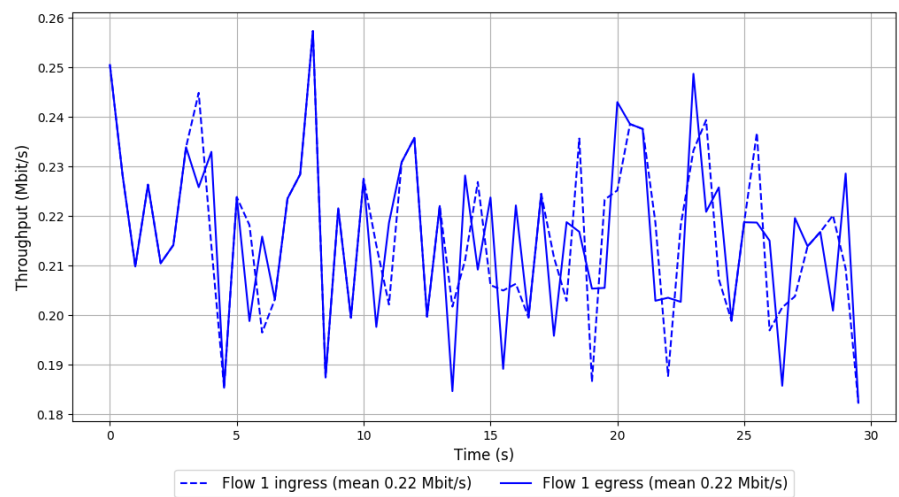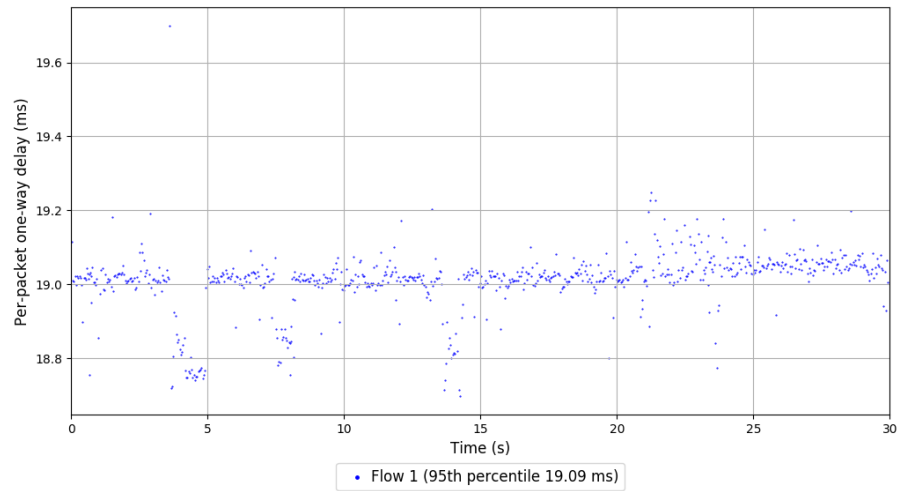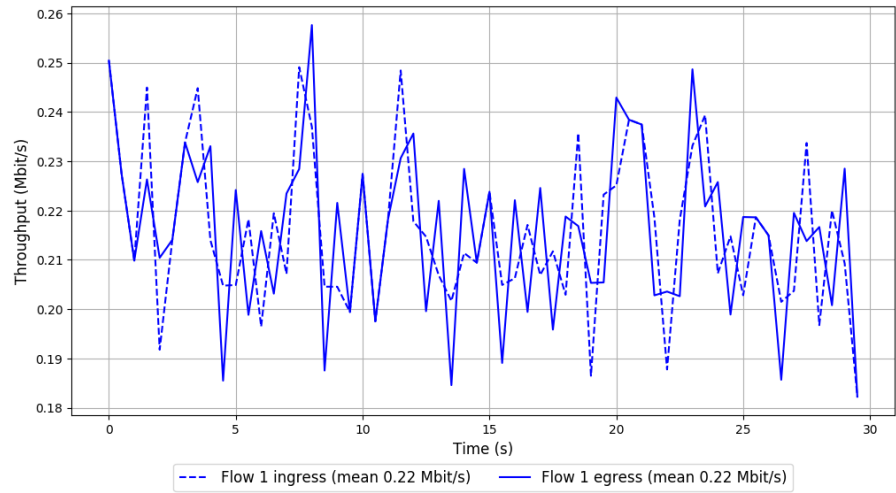
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2018-04-24 10:51:37
End at: 2018-04-24 10:52:07
Local clock offset: -0.265 ms
Remote clock offset: -5.578 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.181 ms
Loss rate: 0.00%
```
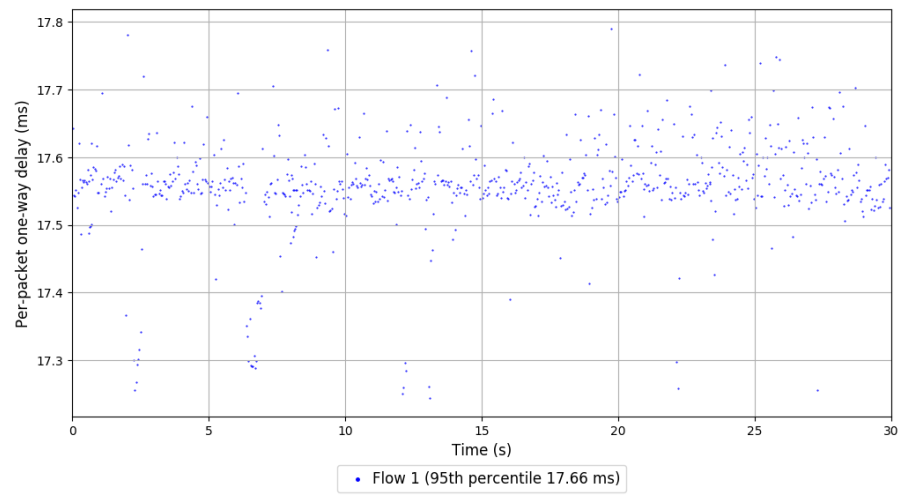
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2018-04-24 11:16:34
End at: 2018-04-24 11:17:04
Local clock offset: 0.026 ms
Remote clock offset: -6.153 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.094 ms
Loss rate: 0.00%
```

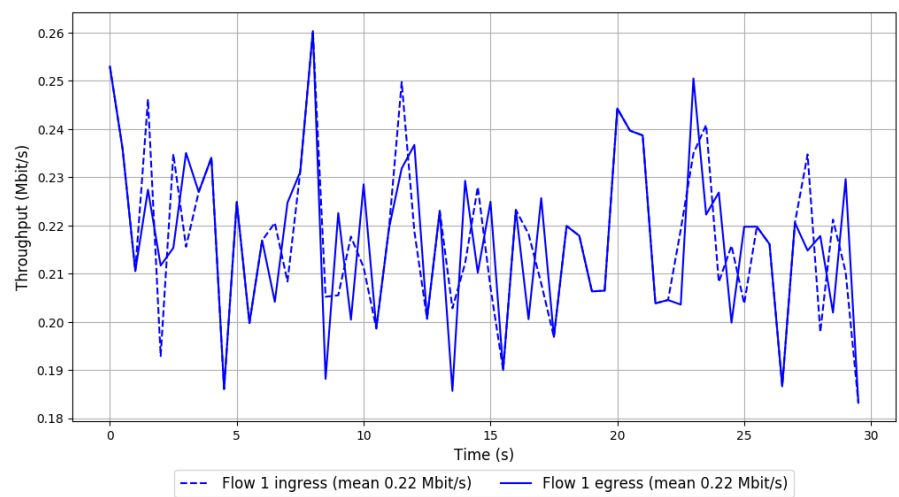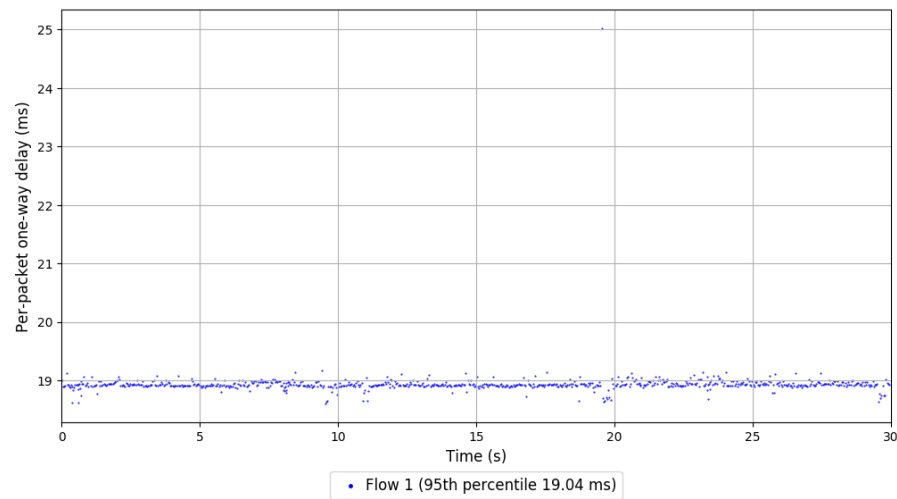## Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2018-04-24 11:41:35
End at: 2018-04-24 11:42:05
Local clock offset: -0.302 ms
Remote clock offset: -6.457 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.661 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.661 ms
Loss rate: 0.00%
```

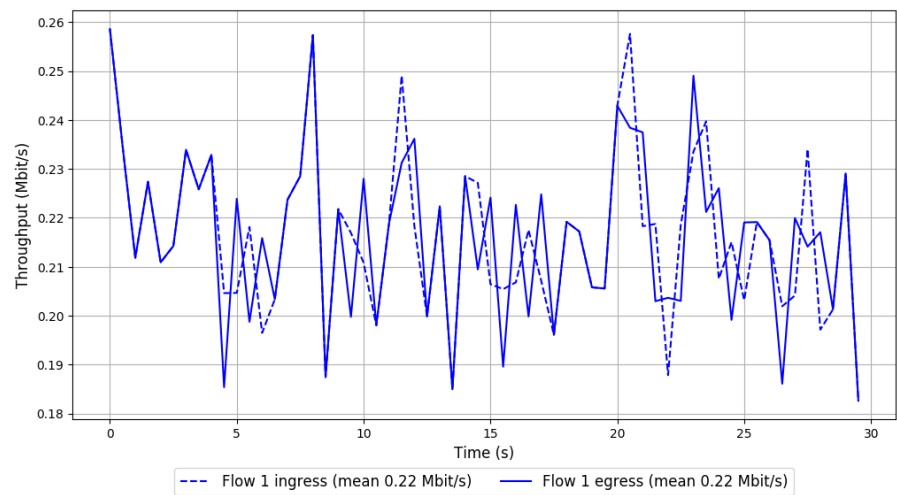# Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: 2018-04-24 12:07:07
End at: 2018-04-24 12:07:37
Local clock offset: -0.168 ms
Remote clock offset: -6.661 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.040 ms
Loss rate: 0.00%
```
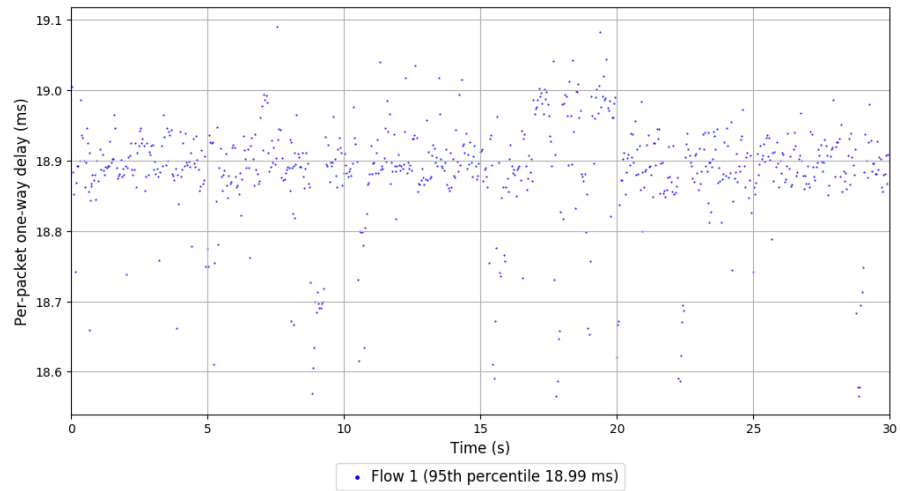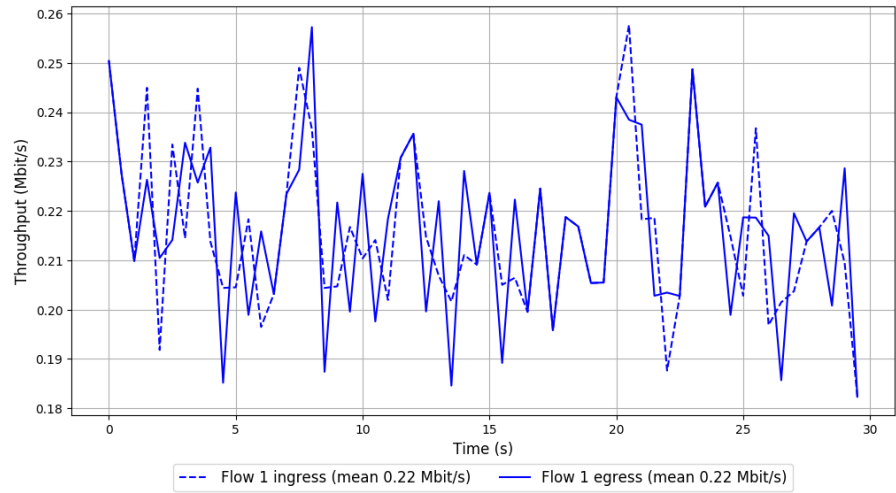
Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: 2018-04-24 12:32:37
End at: 2018-04-24 12:33:07
Local clock offset: -0.102 ms
Remote clock offset: -5.56 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.986 ms
Loss rate: 0.00%
```

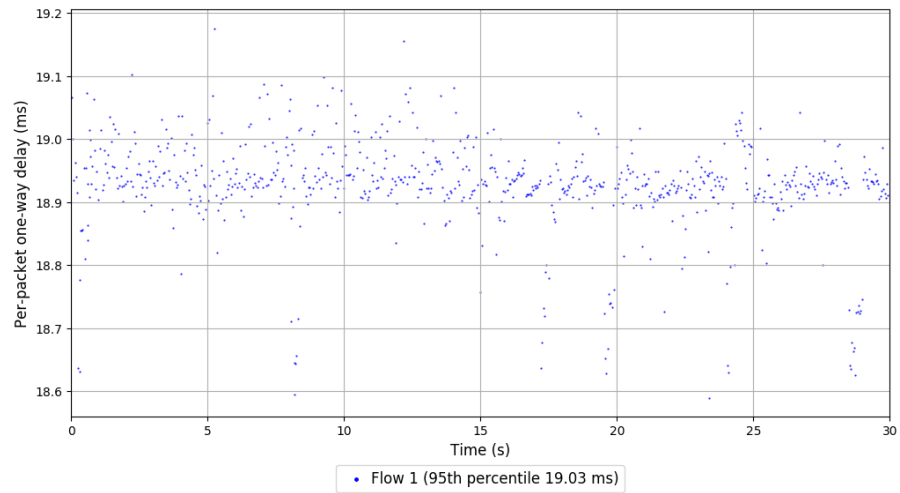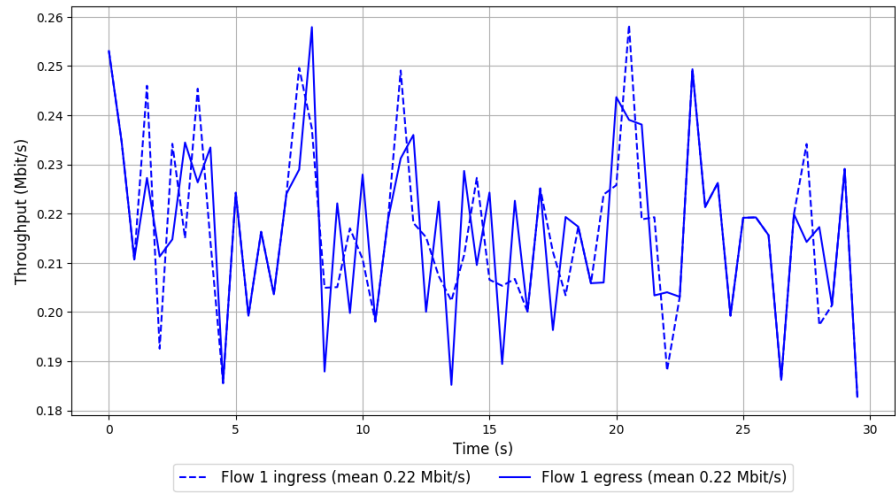Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: 2018-04-24 12:57:47
End at: 2018-04-24 12:58:18
Local clock offset: -0.156 ms
Remote clock offset: -5.085 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.030 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2018-04-24 13:23:23
End at: 2018-04-24 13:23:54
Local clock offset: 0.1 ms
Remote clock offset: -4.85 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.157 ms
Loss rate: 0.00%
```
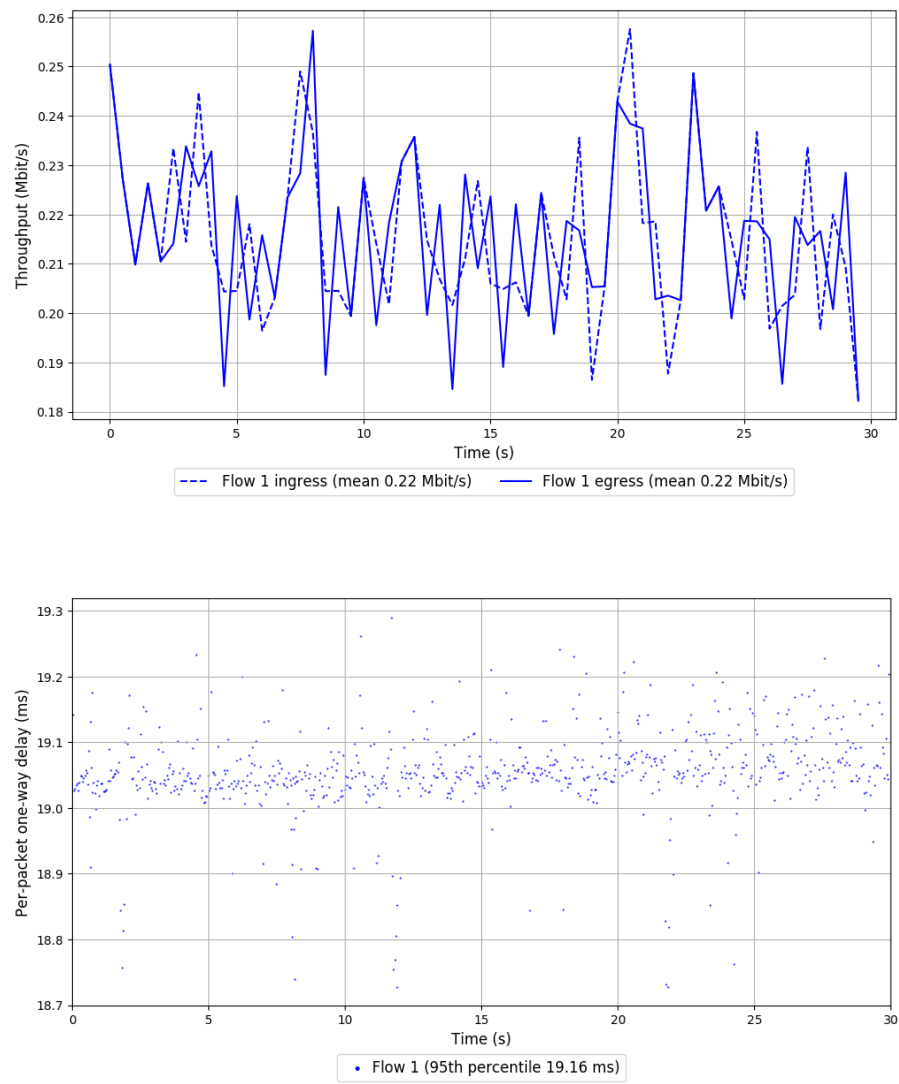
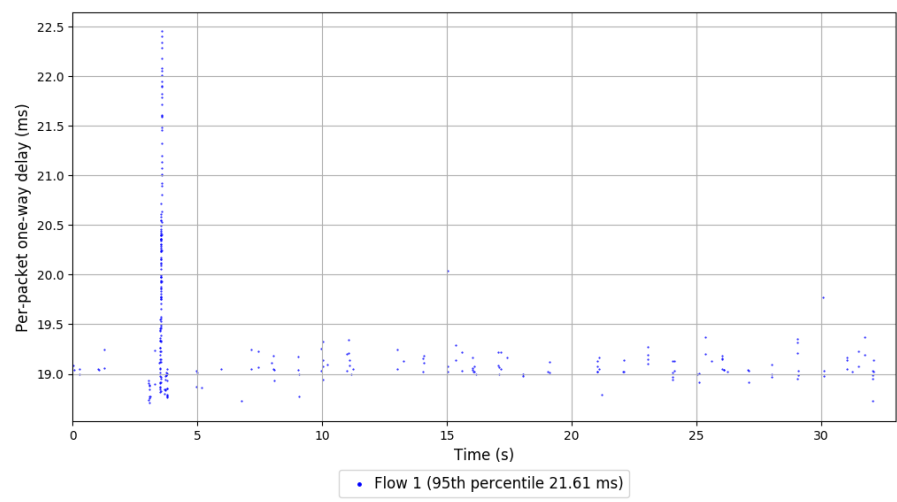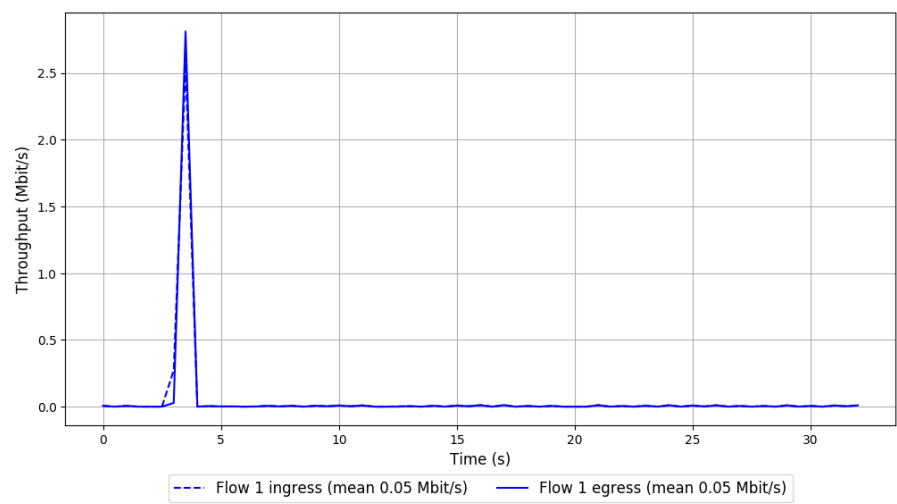## Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 09:34:52
End at: 2018-04-24 09:35:22
Local clock offset: -0.387 ms
Remote clock offset: -5.241 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 21.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 21.607 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

Flow 1 ingress (mean 0.05 Mbit/s)   Flow 1 egress (mean 0.05 Mbit/s)

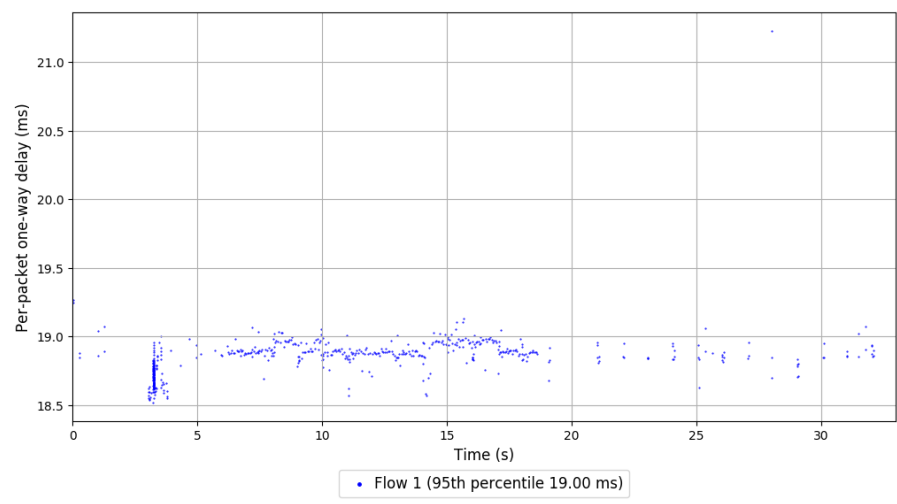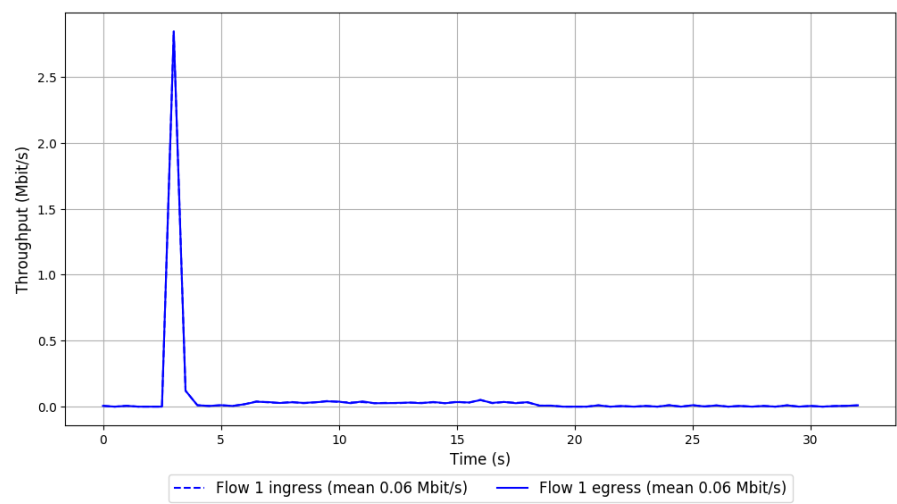

Flow 1 (95th percentile 21.61 ms)

```
Run 2: Statistics of WebRTC media

Start at: 2018-04-24 09:59:57
End at: 2018-04-24 10:00:27
Local clock offset: -0.345 ms
Remote clock offset: -5.243 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 18.999 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 18.999 ms
Loss rate: 0.00%
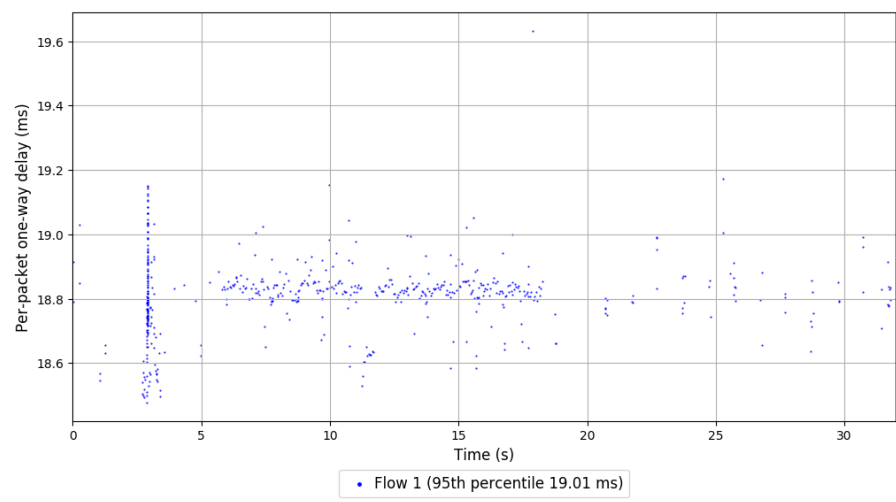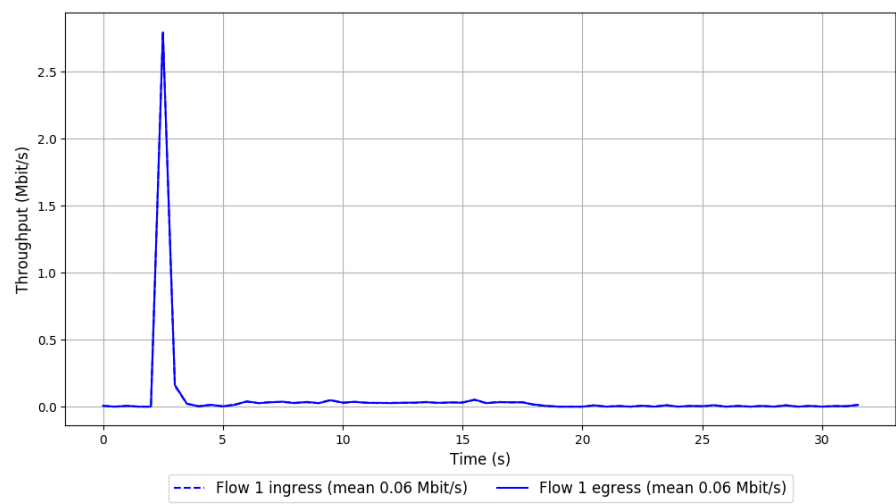```

Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-04-24 10:25:19
End at: 2018-04-24 10:25:49
Local clock offset: -0.335 ms
Remote clock offset: -5.205 ms

Below is generated by plot.py at 2018-04-24 16:16:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 19.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 19.007 ms
Loss rate: 0.00%
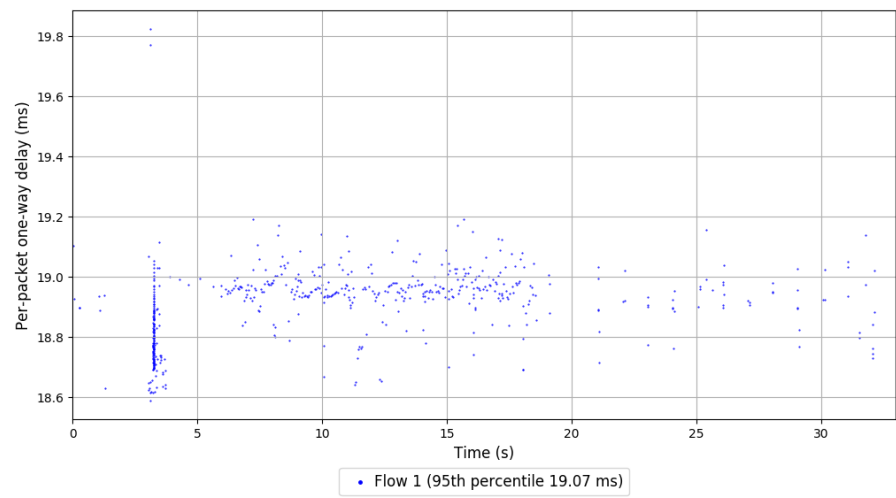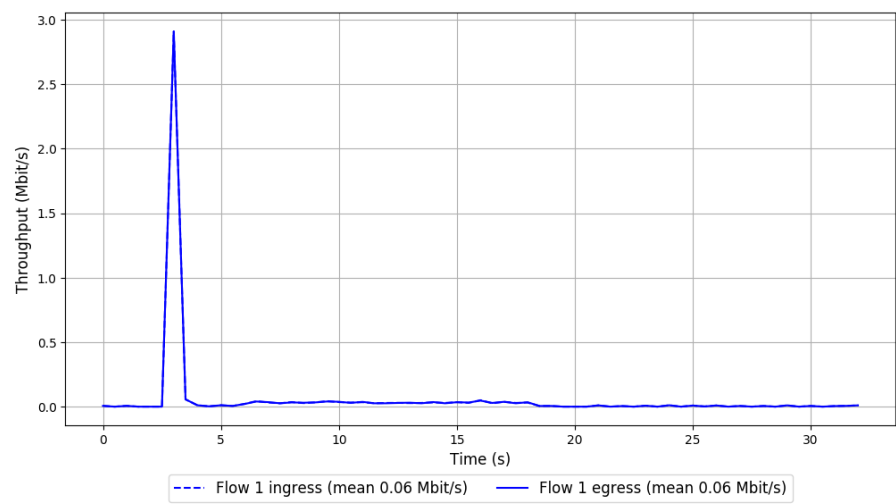```

Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-04-24 10:50:19
End at: 2018-04-24 10:50:49
Local clock offset: -0.303 ms
Remote clock offset: -5.647 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 19.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 19.069 ms
Loss rate: 0.00%
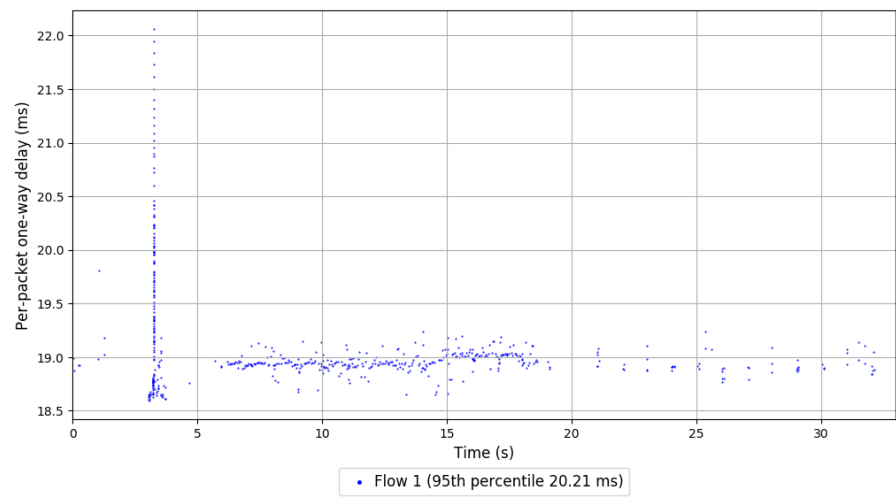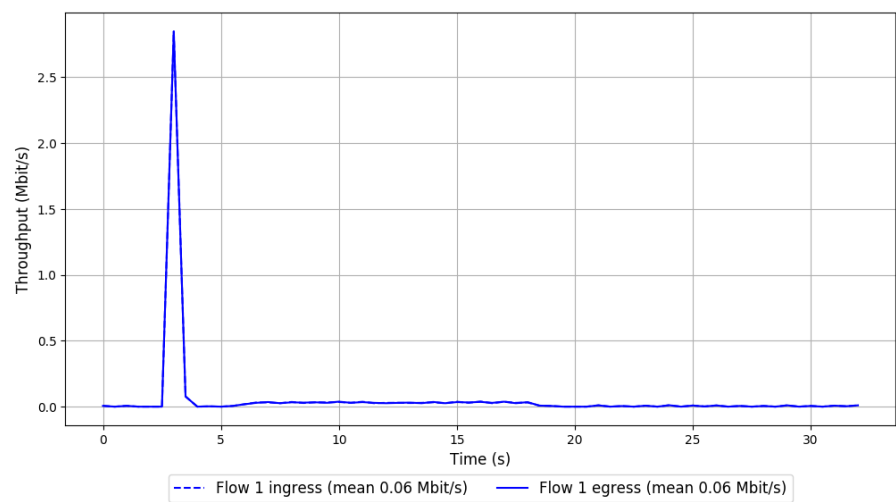```

Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2018-04-24 11:15:15
End at: 2018-04-24 11:15:45
Local clock offset: 0.113 ms
Remote clock offset: -6.046 ms

Below is generated by plot.py at 2018-04-24 16:16:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 20.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 20.215 ms
Loss rate: 0.00%
```
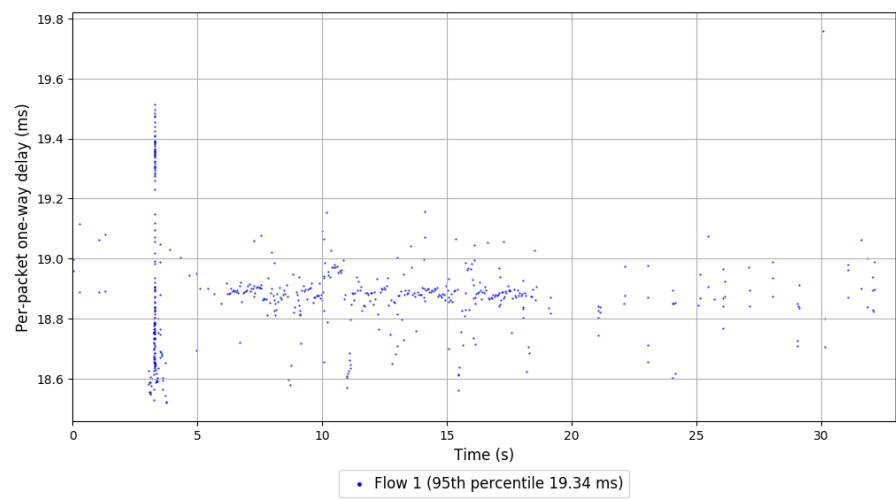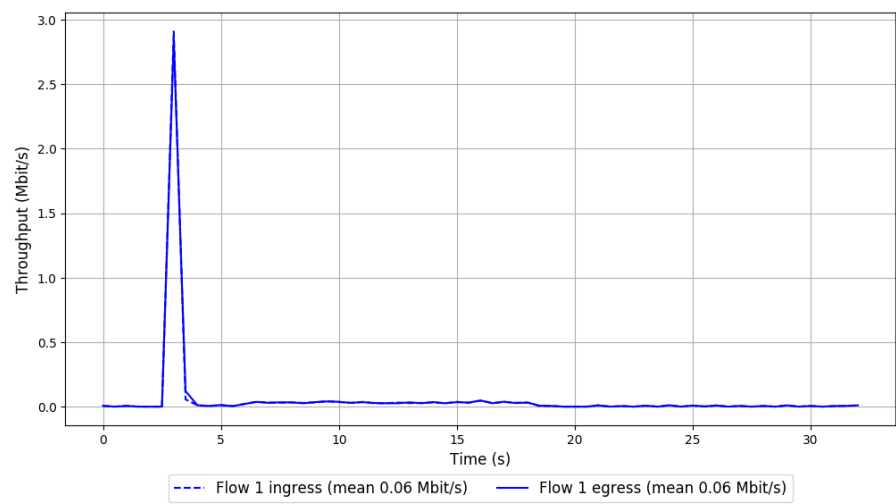
Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2018-04-24 11:40:17
End at: 2018-04-24 11:40:47
Local clock offset: -0.3 ms
Remote clock offset: -6.497 ms

Below is generated by plot.py at 2018-04-24 16:16:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 19.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 19.342 ms
Loss rate: 0.00%
```
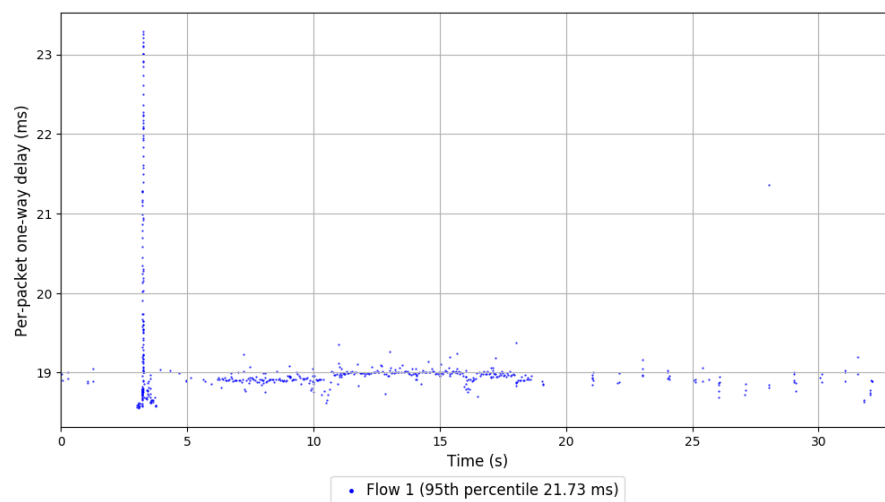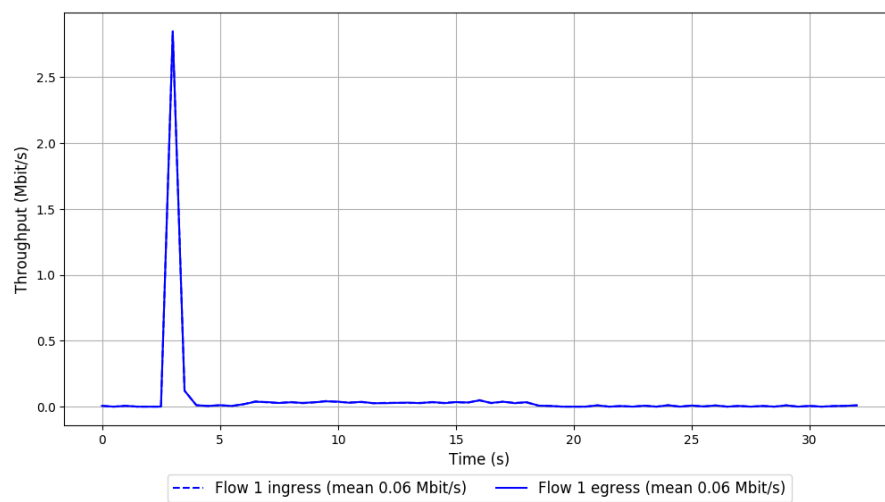
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-04-24 12:05:49
End at: 2018-04-24 12:06:19
Local clock offset: -0.158 ms
Remote clock offset: -6.598 ms

Below is generated by plot.py at 2018-04-24 16:16:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 21.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 21.725 ms
Loss rate: 0.00%
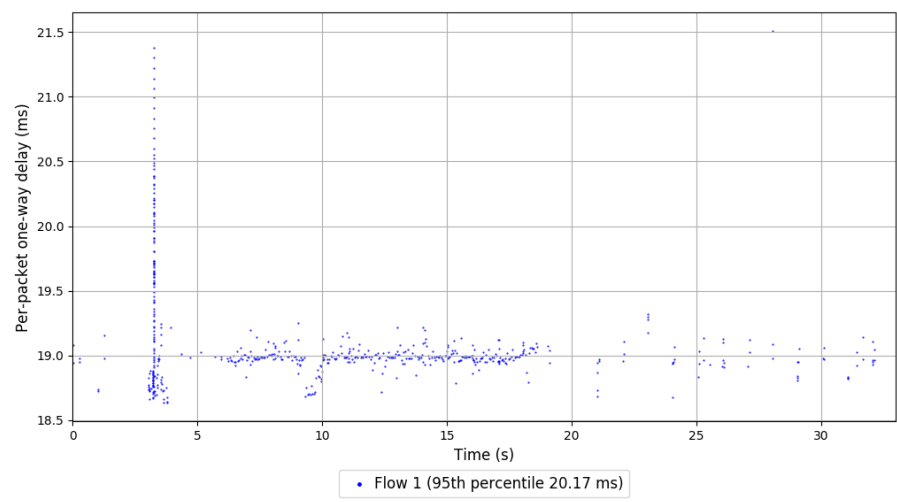```

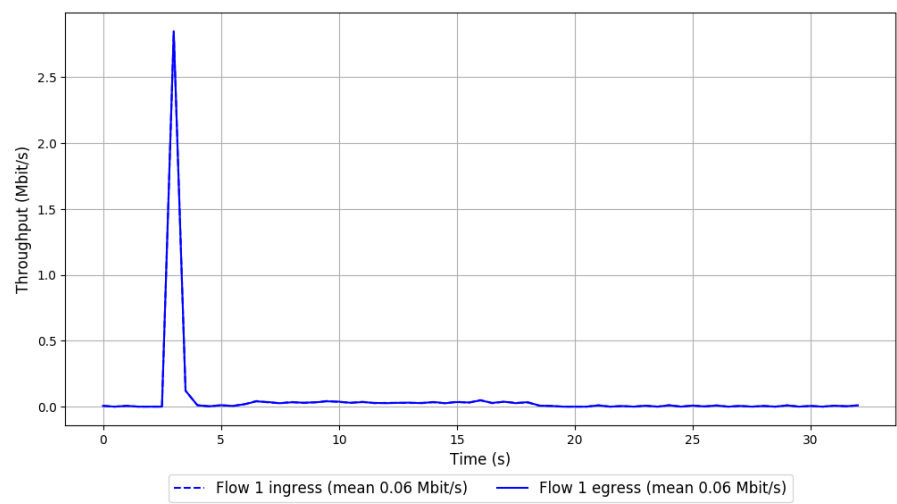Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-04-24 12:31:19
End at: 2018-04-24 12:31:50
Local clock offset: -0.137 ms
Remote clock offset: -5.479 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 20.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 20.173 ms
Loss rate: 0.00%
```

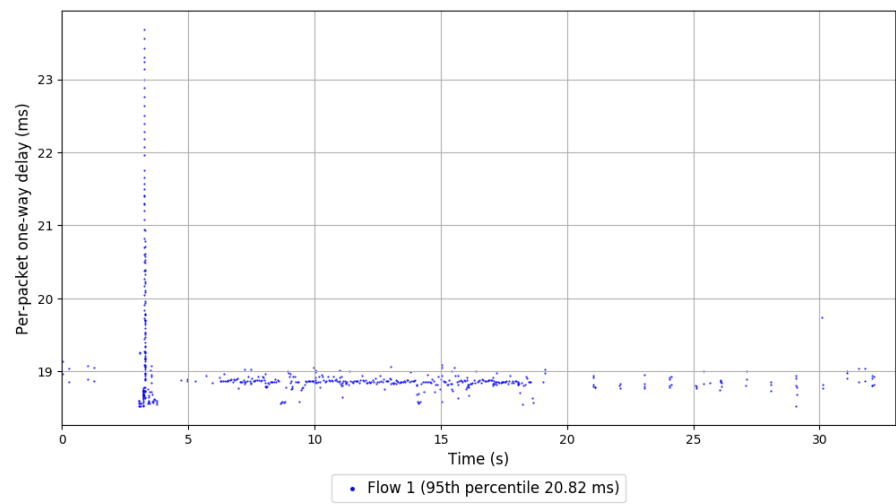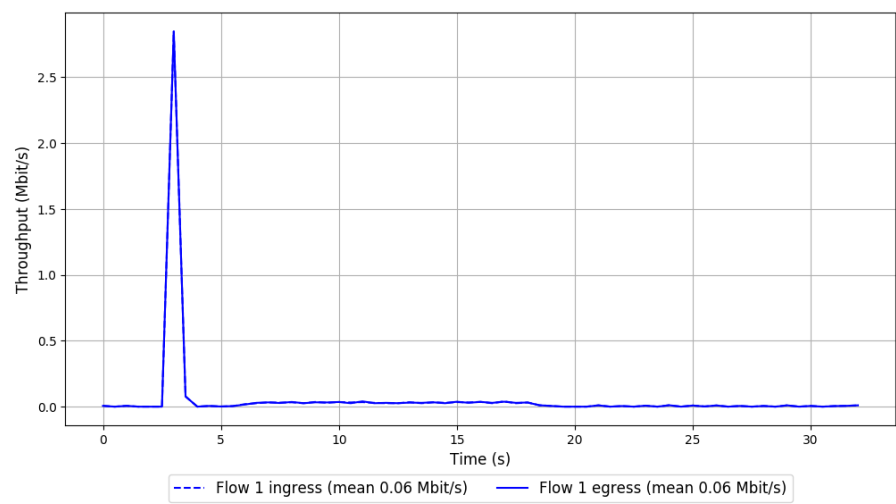Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2018-04-24 12:56:30
End at: 2018-04-24 12:57:00
Local clock offset: -0.151 ms
Remote clock offset: -5.128 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 20.821 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 20.821 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-04-24 13:22:06
End at: 2018-04-24 13:22:36
Local clock offset: 0.102 ms
Remote clock offset: -4.825 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 19.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 19.052 ms
Loss rate: 0.00%
```
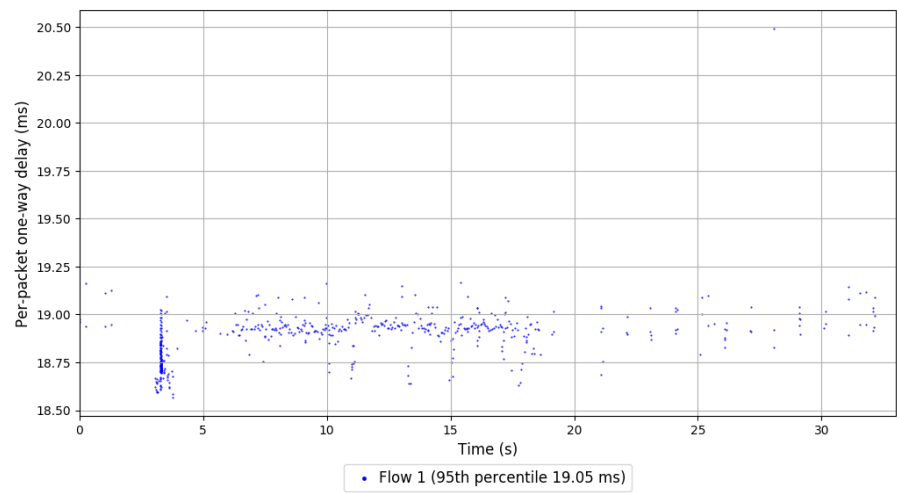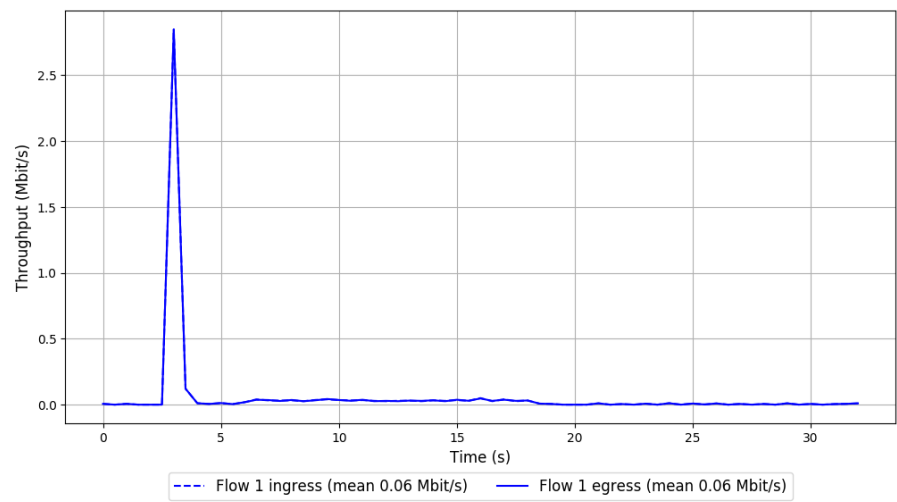
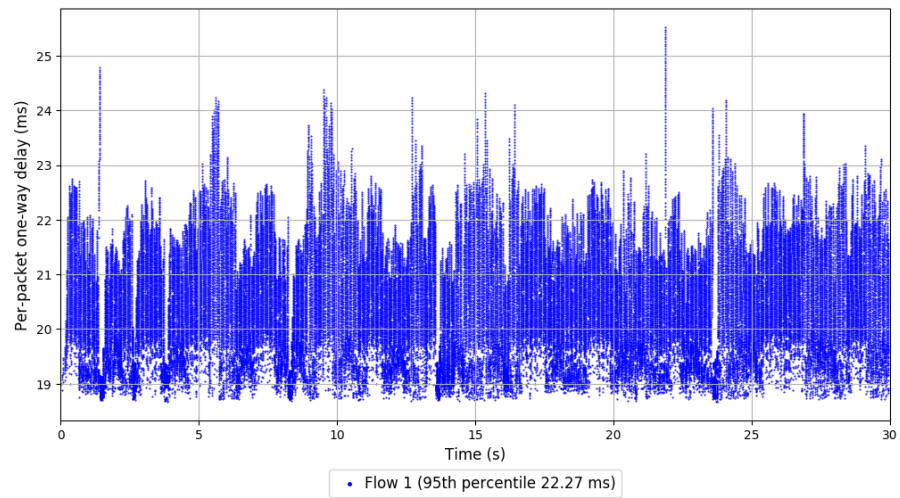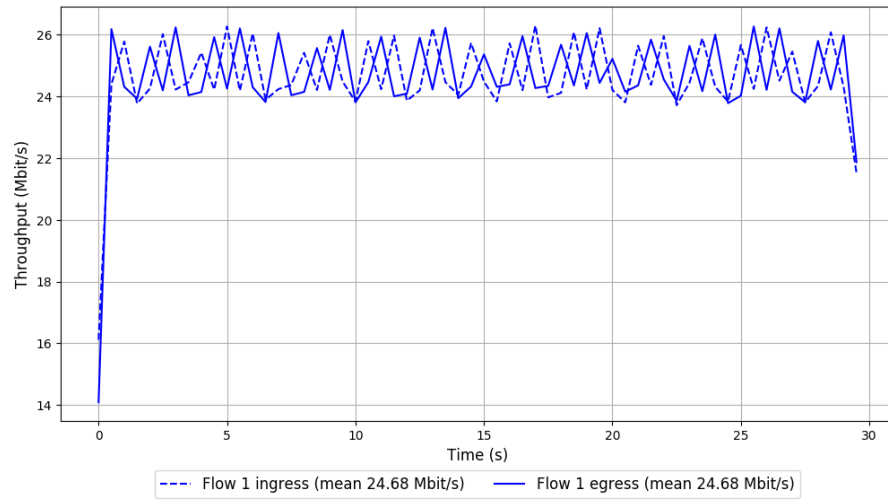Run 10: Report of WebRTC media — Data Link

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```
Run 1: Statistics of Sprout

Start at: 2018-04-24 09:32:15
End at: 2018-04-24 09:32:45
Local clock offset: -0.337 ms
Remote clock offset: -5.262 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 22.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 22.268 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 24.68 Mbit/s) ----- Flow 1 egress (mean 24.68 Mbit/s) ——

Flow 1 (95th percentile 22.27 ms)

```
Run 2: Statistics of Sprout

Start at: 2018-04-24 09:57:17
End at: 2018-04-24 09:57:47
Local clock offset: -0.351 ms
Remote clock offset: -5.26 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 22.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 22.285 ms
Loss rate: 0.00%
```
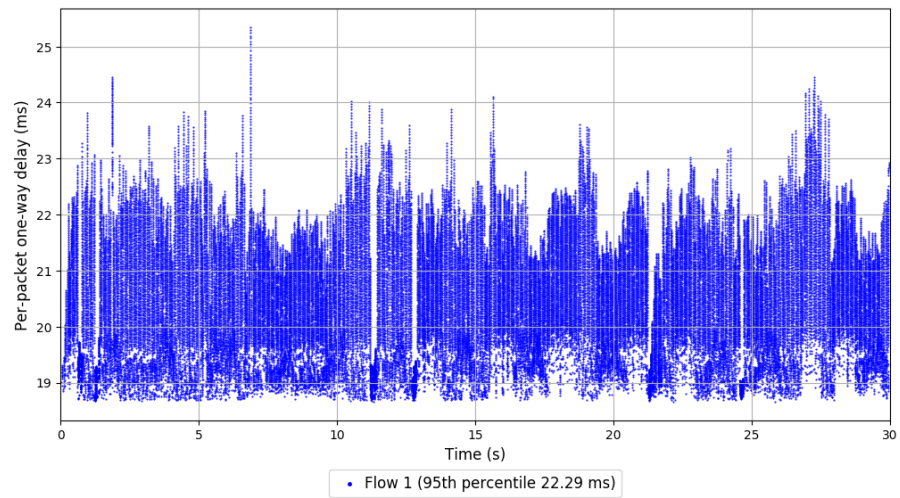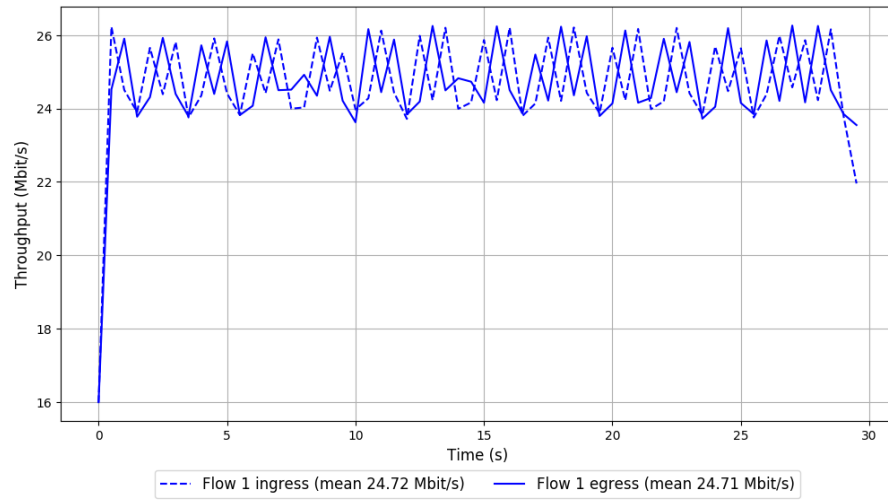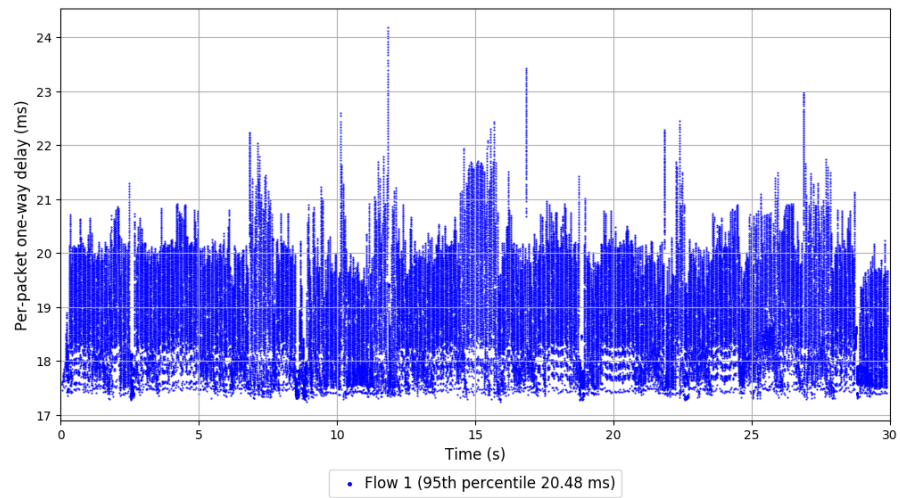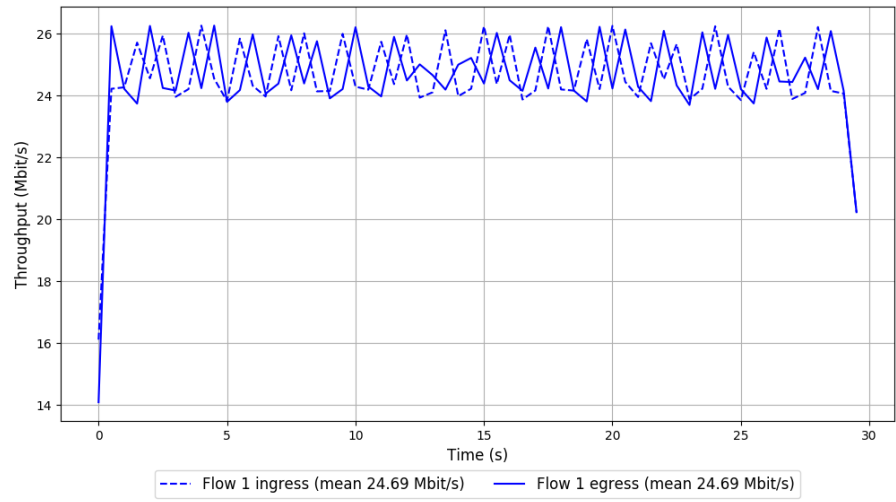
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-04-24 10:22:39
End at: 2018-04-24 10:23:09
Local clock offset: -0.421 ms
Remote clock offset: -5.192 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 20.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 20.477 ms
Loss rate: 0.00%
```
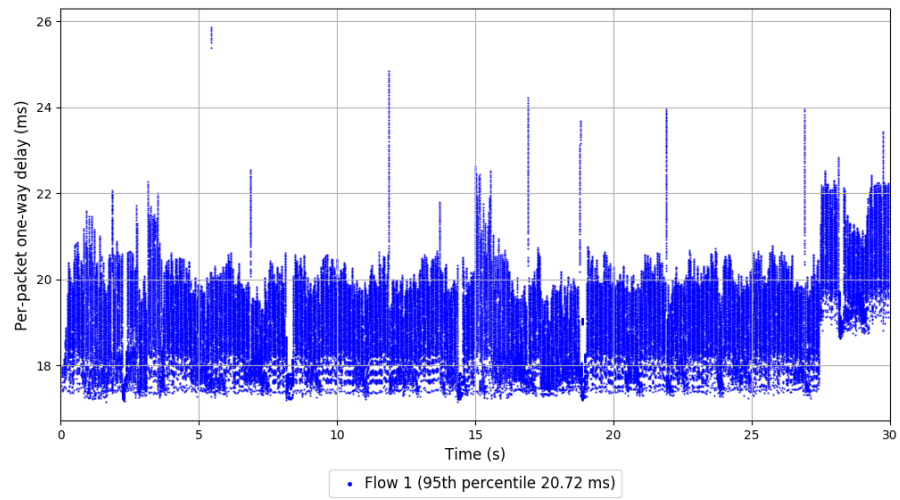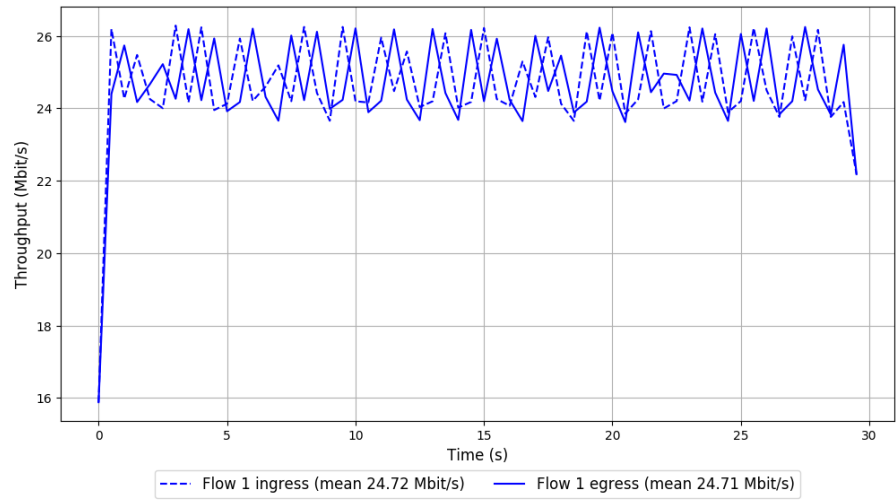
Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2018-04-24 10:47:40
End at: 2018-04-24 10:48:10
Local clock offset: -0.27 ms
Remote clock offset: -5.608 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 20.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 20.723 ms
Loss rate: 0.00%
```

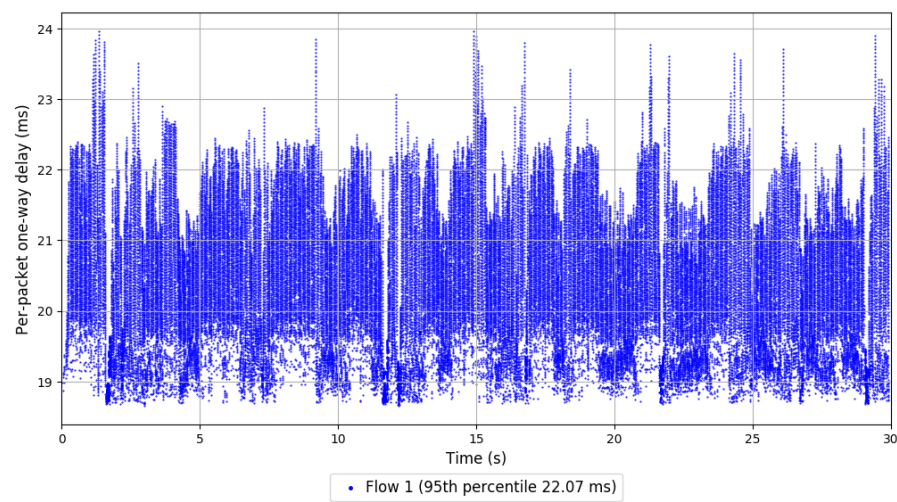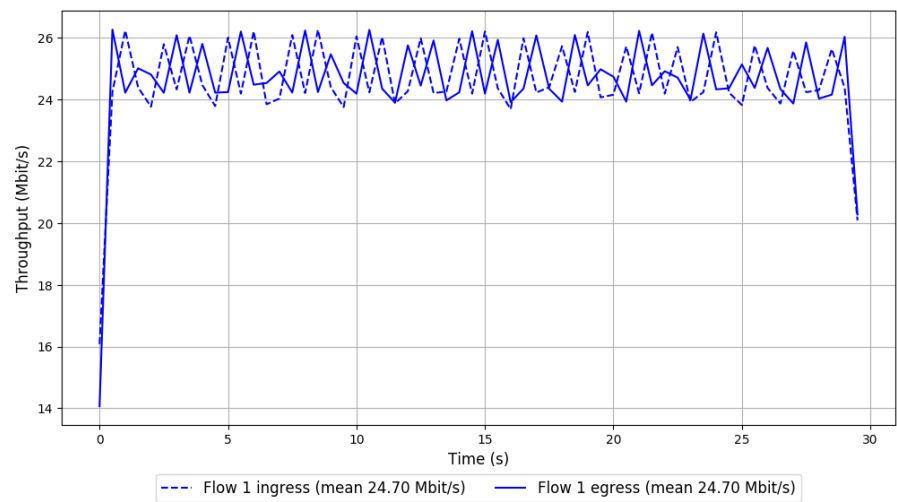# Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-04-24 11:12:36
End at: 2018-04-24 11:13:06
Local clock offset: 0.109 ms
Remote clock offset: -5.998 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.065 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 24.70 Mbit/s) --- Flow 1 egress (mean 24.70 Mbit/s)
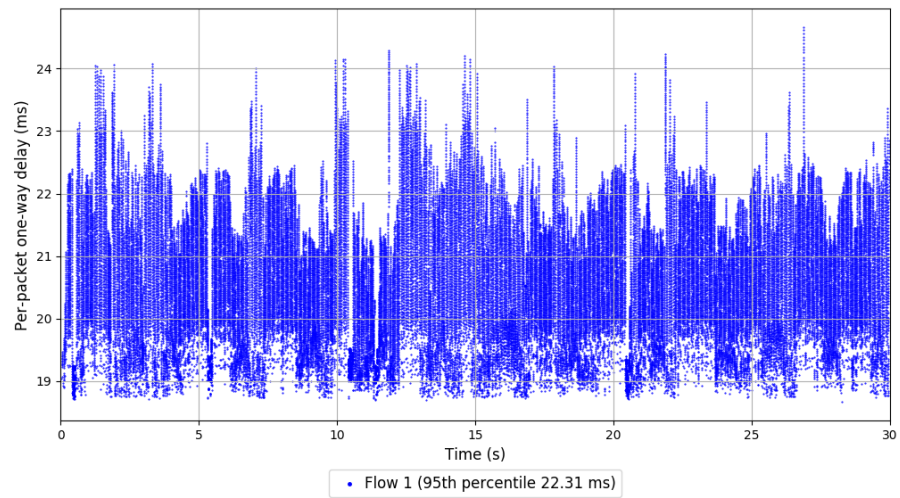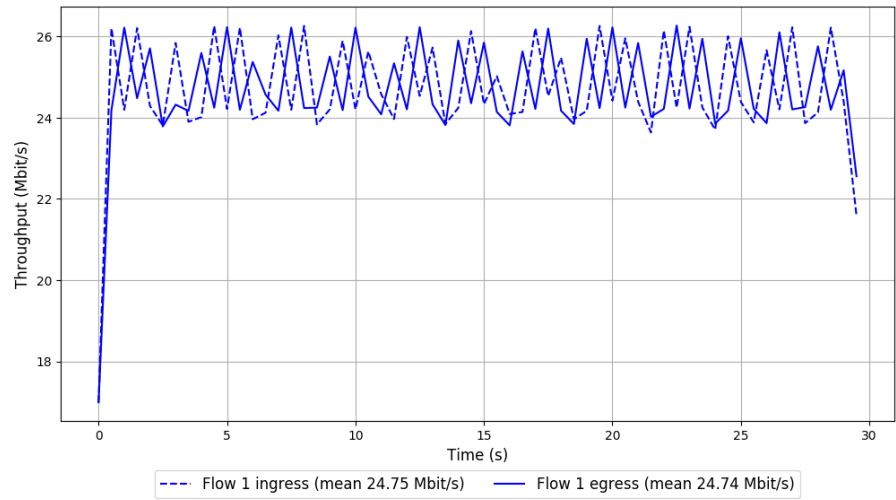

Flow 1 (95th percentile 22.07 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-04-24 11:37:36
End at: 2018-04-24 11:38:06
Local clock offset: -0.27 ms
Remote clock offset: -6.373 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 22.307 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.74 Mbit/s
95th percentile per-packet one-way delay: 22.307 ms
Loss rate: 0.02%
```

Run 6: Report of Sprout — Data Link

Flow 1 ingress (mean 24.75 Mbit/s) ----- Flow 1 egress (mean 24.74 Mbit/s)

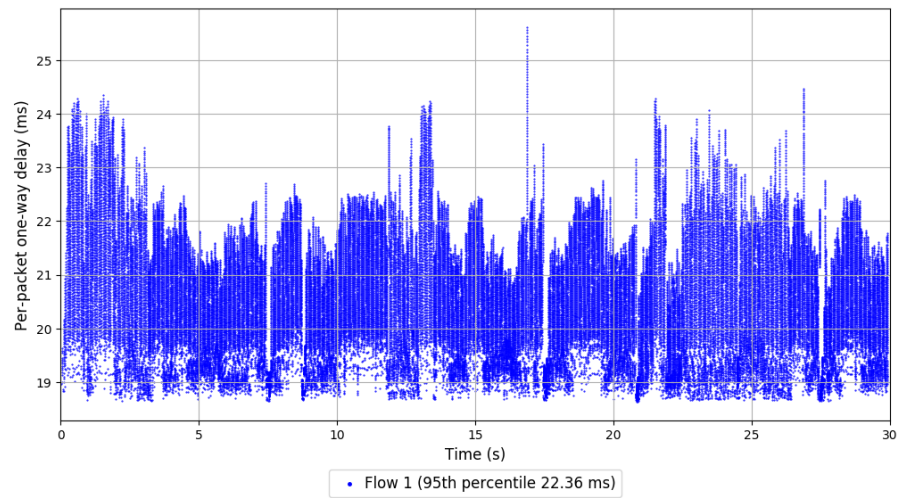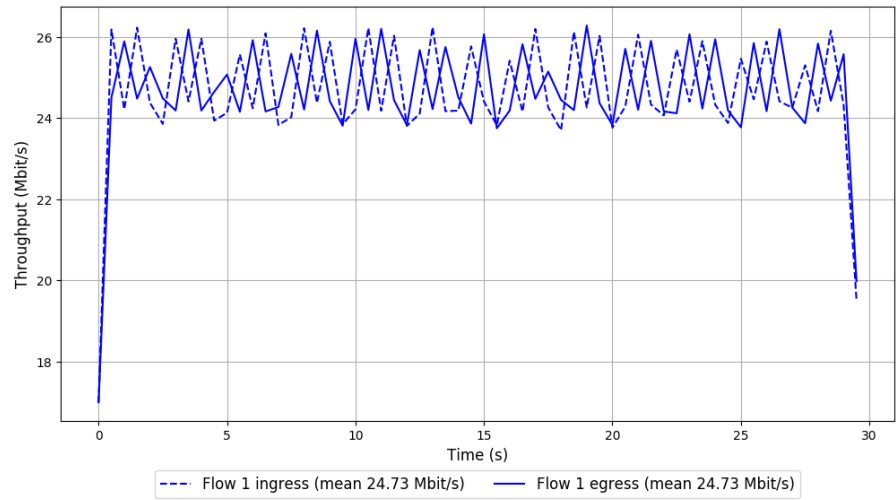

• Flow 1 (95th percentile 22.31 ms)

```
Run 7: Statistics of Sprout

Start at: 2018-04-24 12:03:09
End at: 2018-04-24 12:03:39
Local clock offset: -0.207 ms
Remote clock offset: -6.608 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 22.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 22.364 ms
Loss rate: 0.00%
```
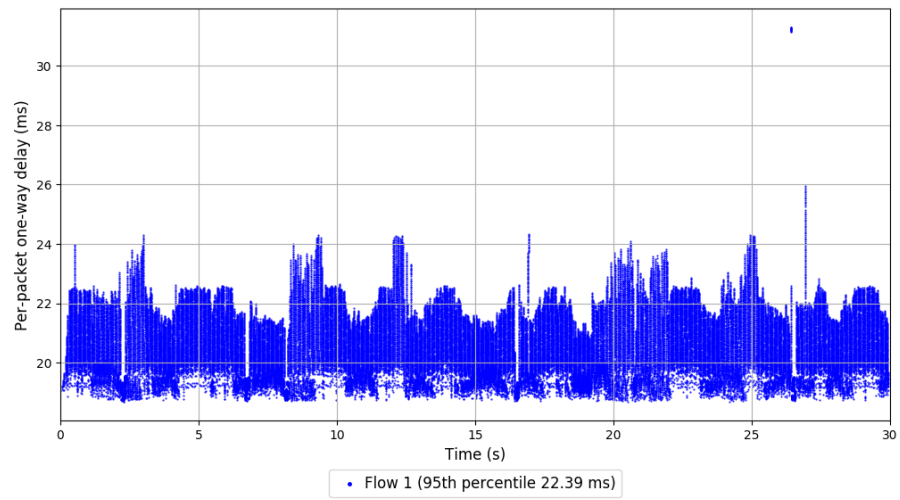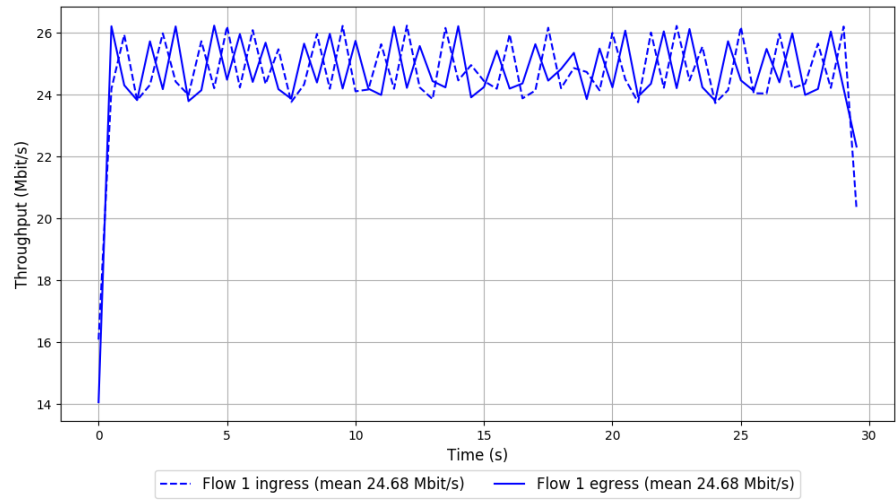
Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2018-04-24 12:28:40
End at: 2018-04-24 12:29:10
Local clock offset: -0.083 ms
Remote clock offset: -5.527 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 22.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 22.385 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 24.68 Mbit/s) --- Flow 1 egress (mean 24.68 Mbit/s)

Flow 1 (95th percentile 22.39 ms)

```
Run 9: Statistics of Sprout

Start at: 2018-04-24 12:53:50
End at: 2018-04-24 12:54:20
Local clock offset: -0.161 ms
Remote clock offset: -5.2 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.869 ms
Loss rate: 0.00%
```
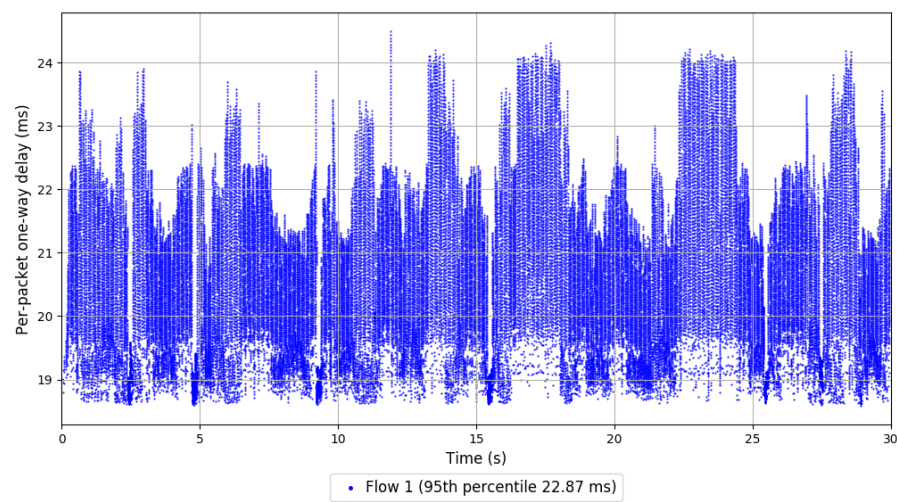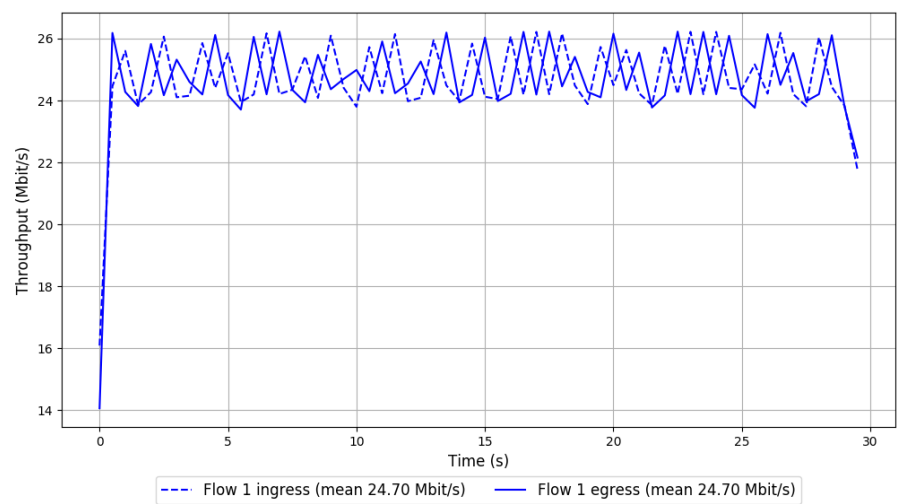
Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2018-04-24 13:19:26
End at: 2018-04-24 13:19:56
Local clock offset: 0.089 ms
Remote clock offset: -4.8 ms


# Below is generated by plot.py at 2018-04-24 16:16:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.713 ms
Loss rate: 0.00%
```
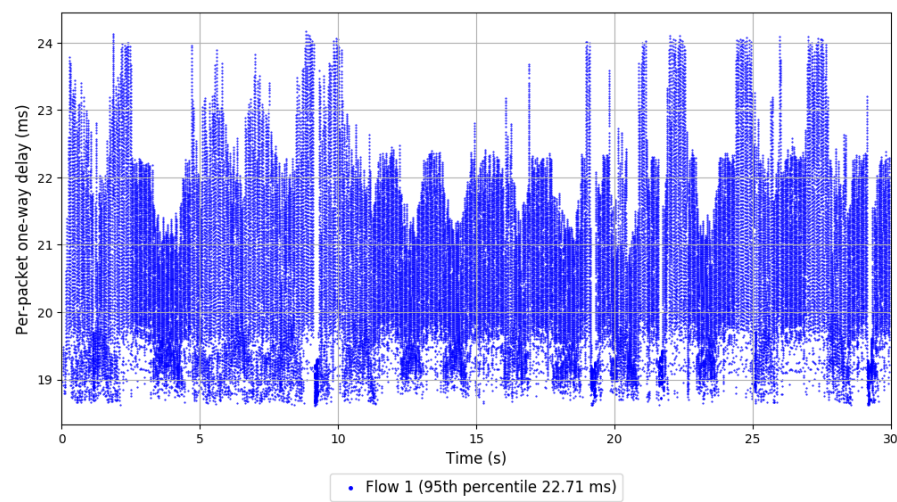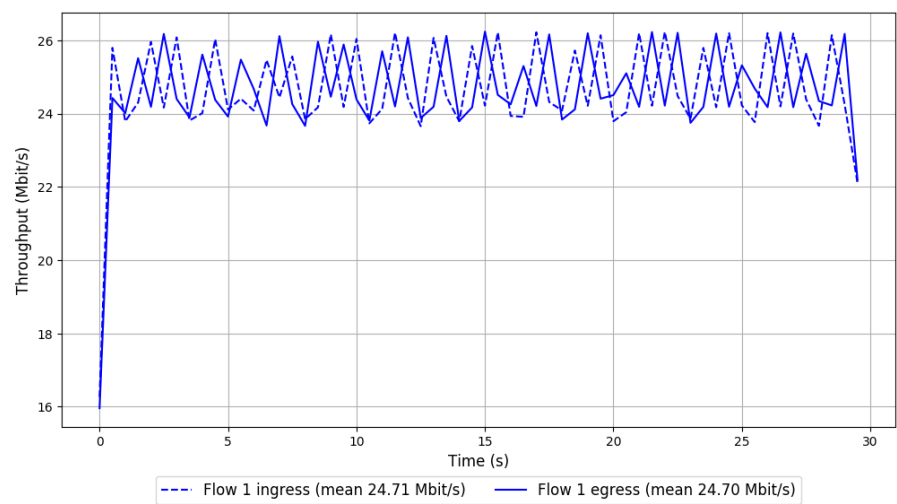
Run 10: Report of Sprout — Data Link

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

Start at: 2018-04-24 09:41:44
End at: 2018-04-24 09:42:14
Local clock offset: -0.301 ms
Remote clock offset: -5.321 ms


# Below is generated by plot.py at 2018-04-24 16:16:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.78 Mbit/s
95th percentile per-packet one-way delay: 18.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 272.78 Mbit/s
95th percentile per-packet one-way delay: 18.744 ms
Loss rate: 0.00%
```
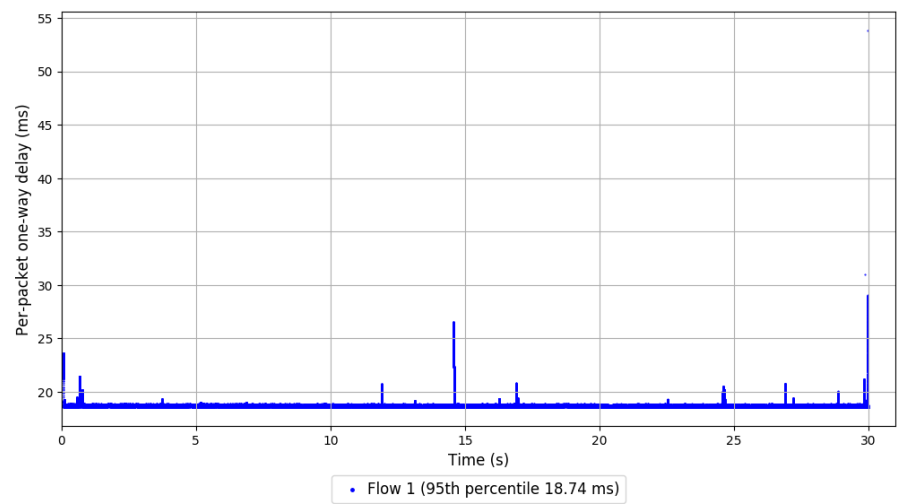
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 272.77 Mbit/s)   Flow 1 egress (mean 272.78 Mbit/s)

Flow 1 (95th percentile 18.74 ms)

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

Start at: 2018-04-24 10:06:50
End at: 2018-04-24 10:07:20
Local clock offset: -0.373 ms
Remote clock offset: -5.273 ms


# Below is generated by plot.py at 2018-04-24 16:17:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 276.87 Mbit/s
95th percentile per-packet one-way delay: 18.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 276.87 Mbit/s
95th percentile per-packet one-way delay: 18.771 ms
Loss rate: 0.00%
```
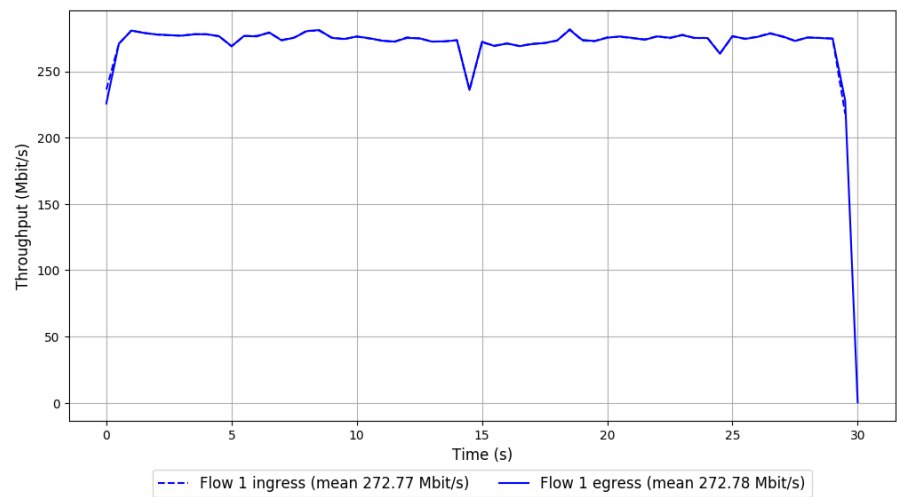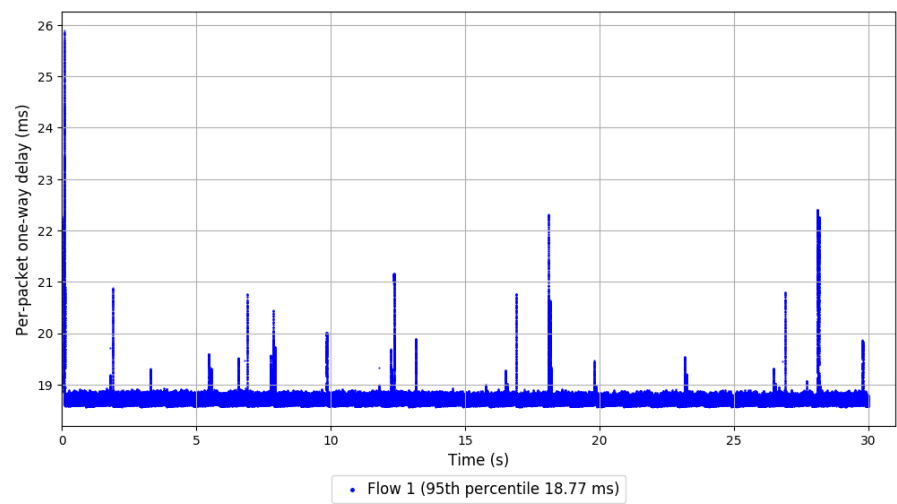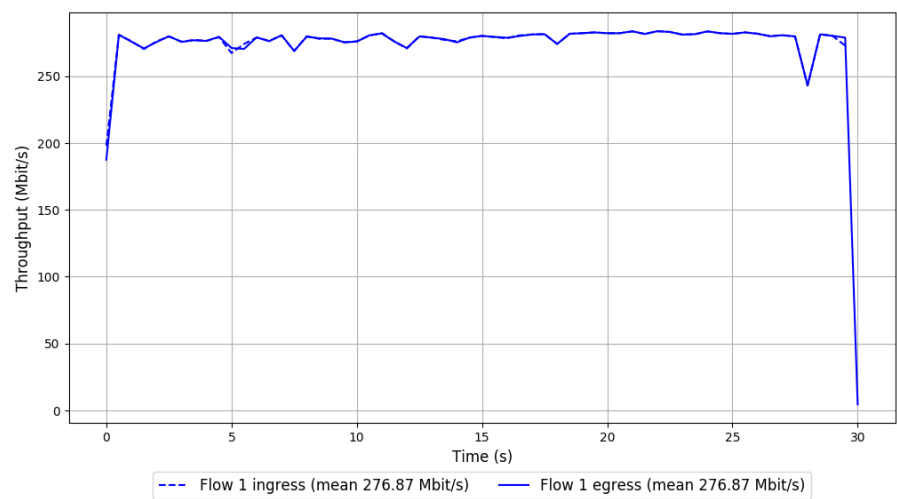
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 276.87 Mbit/s) --- Flow 1 egress (mean 276.87 Mbit/s)
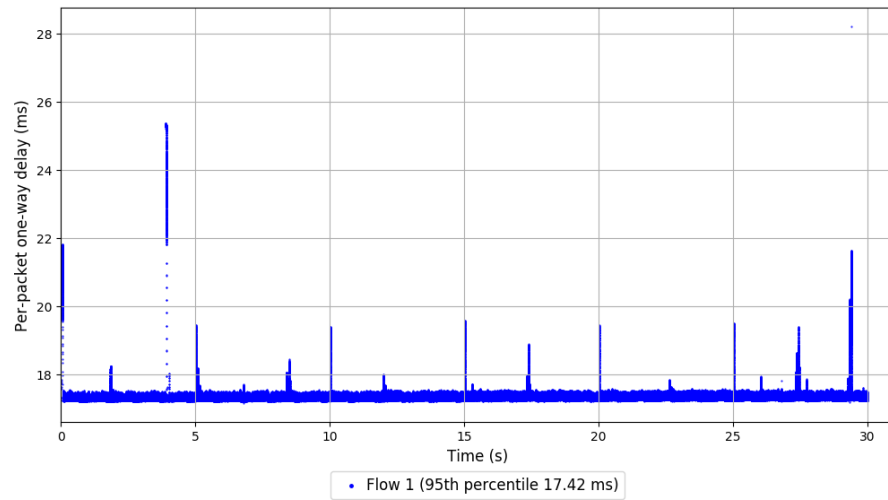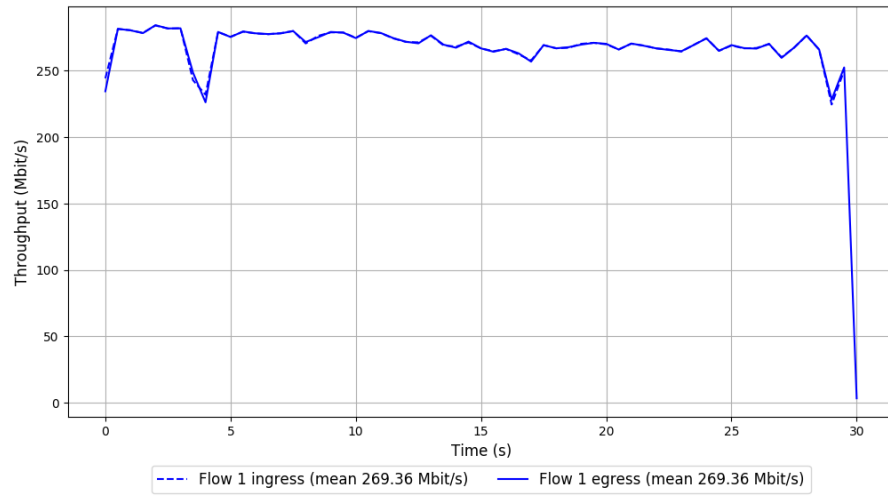

Flow 1 (95th percentile 18.77 ms)

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

Start at: 2018-04-24 10:32:11
End at: 2018-04-24 10:32:41
Local clock offset: -0.349 ms
Remote clock offset: -5.185 ms


# Below is generated by plot.py at 2018-04-24 16:17:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.36 Mbit/s
95th percentile per-packet one-way delay: 17.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 269.36 Mbit/s
95th percentile per-packet one-way delay: 17.421 ms
Loss rate: 0.00%
```

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

Flow 1 ingress (mean 269.36 Mbit/s) --- Flow 1 egress (mean 269.36 Mbit/s)

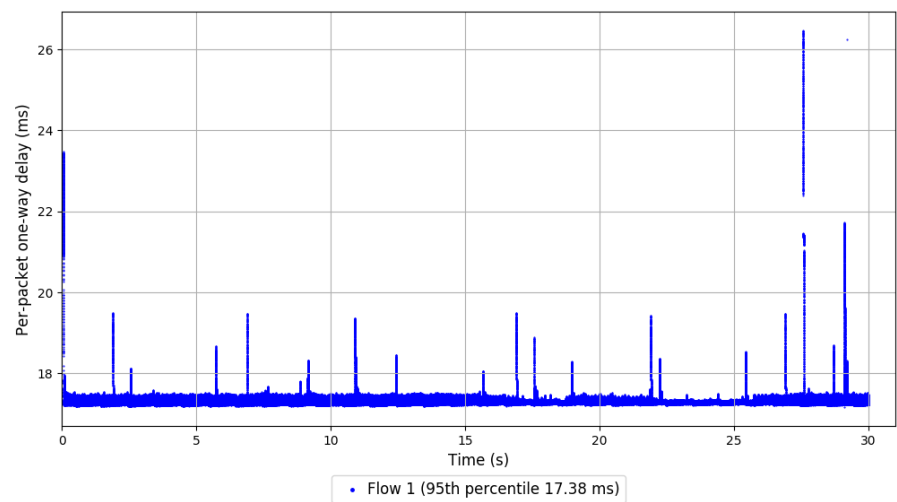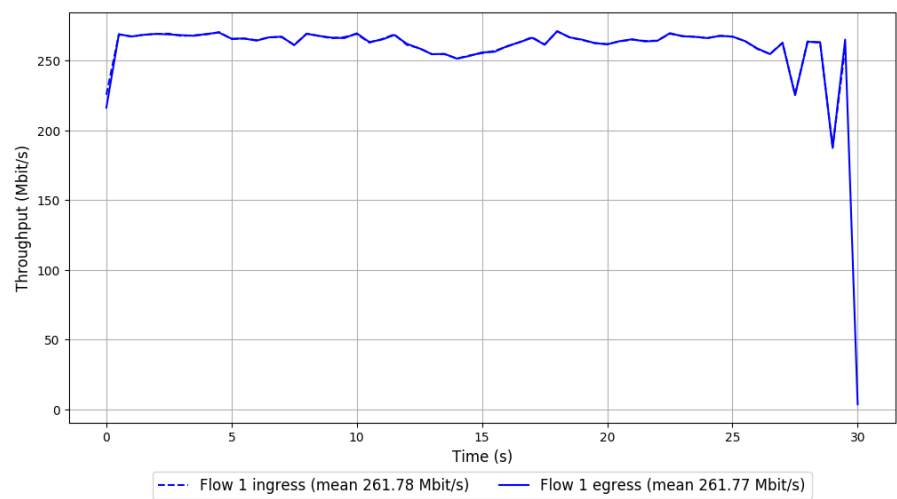

• Flow 1 (95th percentile 17.42 ms)

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

Start at: 2018-04-24 10:57:10
End at: 2018-04-24 10:57:40
Local clock offset: -0.152 ms
Remote clock offset: -5.707 ms


# Below is generated by plot.py at 2018-04-24 16:17:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.77 Mbit/s
95th percentile per-packet one-way delay: 17.379 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 261.77 Mbit/s
95th percentile per-packet one-way delay: 17.379 ms
Loss rate: 0.01%
```

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

Flow 1 ingress (mean 261.78 Mbit/s) --- Flow 1 egress (mean 261.77 Mbit/s)

Flow 1 (95th percentile 17.38 ms)

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

Start at: 2018-04-24 11:22:07
End at: 2018-04-24 11:22:37
Local clock offset: 0.008 ms
Remote clock offset: -6.255 ms


# Below is generated by plot.py at 2018-04-24 16:17:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.52 Mbit/s
95th percentile per-packet one-way delay: 18.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.52 Mbit/s
95th percentile per-packet one-way delay: 18.723 ms
Loss rate: 0.00%
```
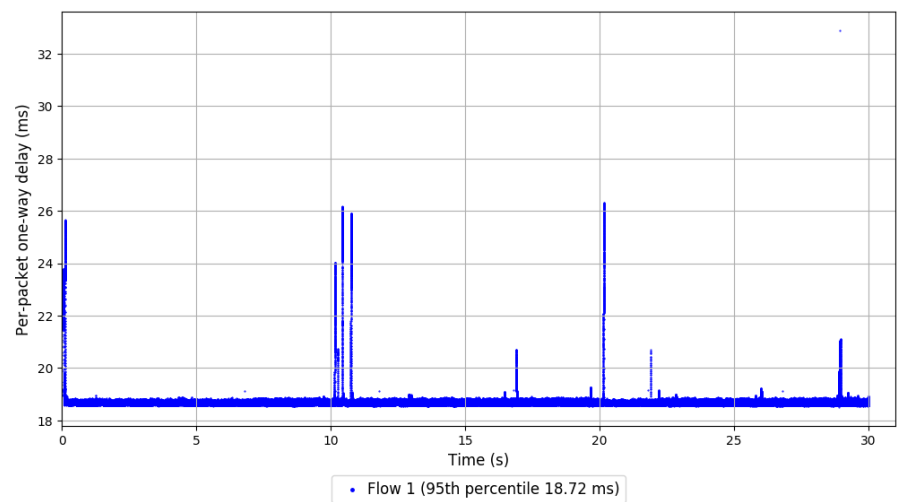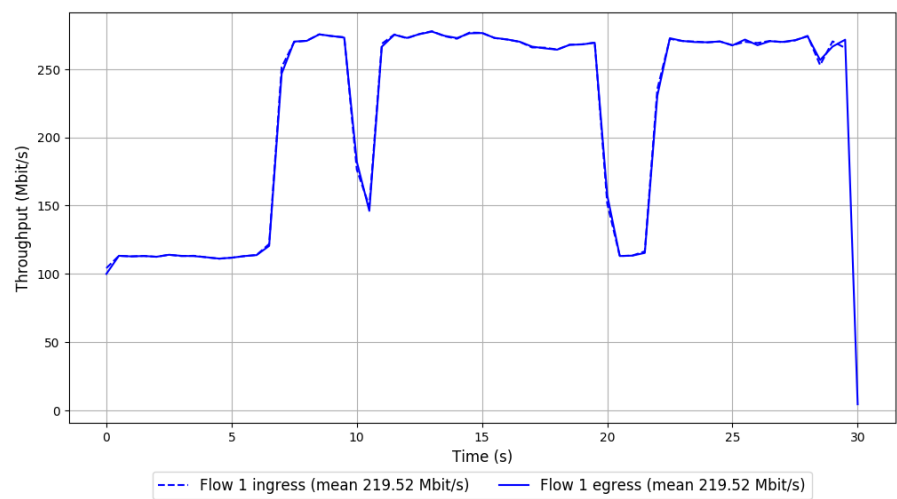
Run 5: Report of TaoVA-100x — Data Link

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

Start at: 2018-04-24 11:47:08
End at: 2018-04-24 11:47:38
Local clock offset: -0.28 ms
Remote clock offset: -6.521 ms


# Below is generated by plot.py at 2018-04-24 16:17:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.11 Mbit/s
95th percentile per-packet one-way delay: 18.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 271.11 Mbit/s
95th percentile per-packet one-way delay: 18.727 ms
Loss rate: 0.00%
```
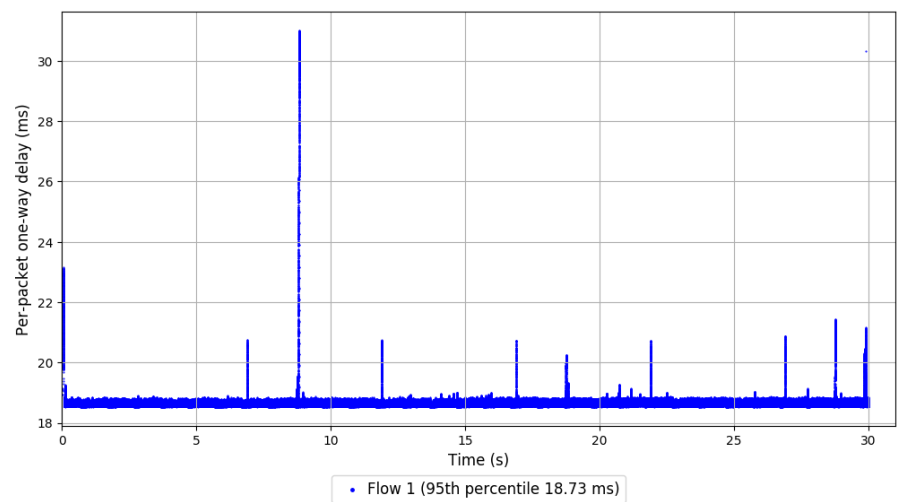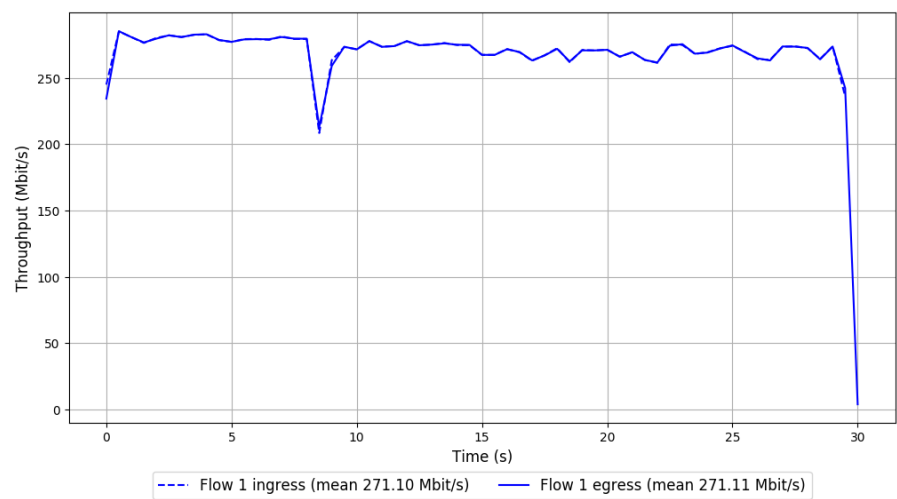
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 271.10 Mbit/s)   Flow 1 egress (mean 271.11 Mbit/s)
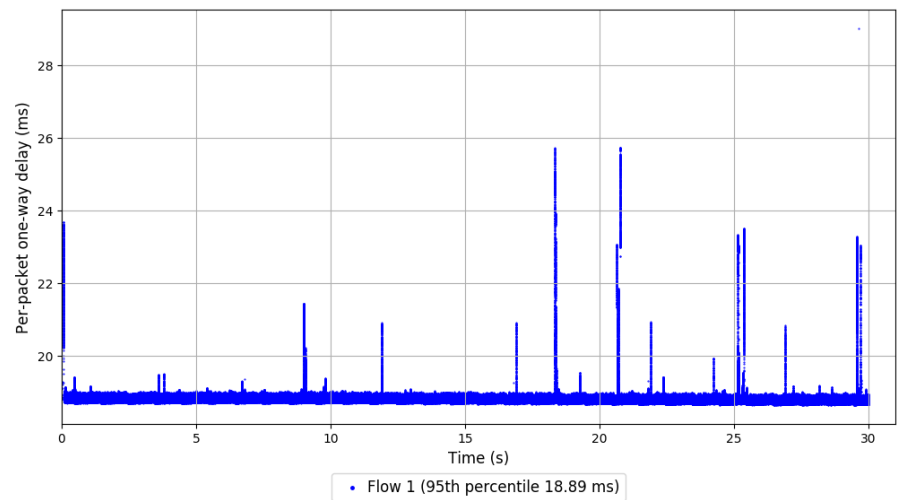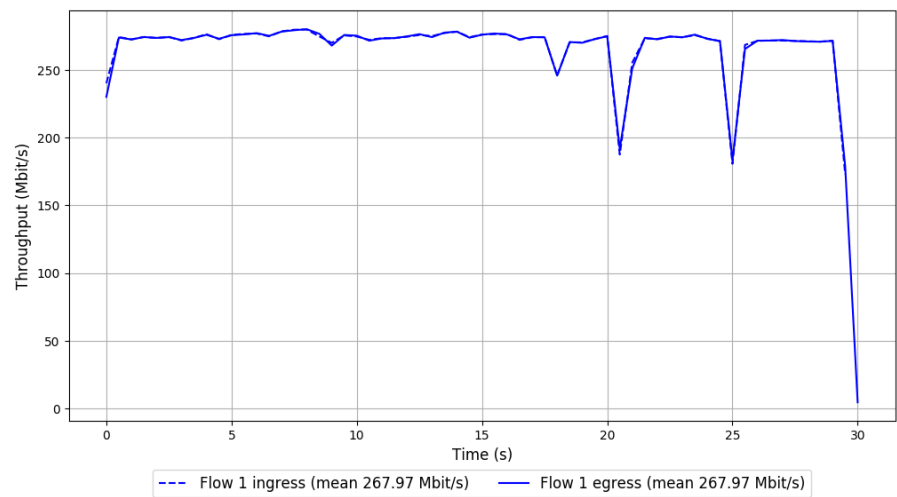

Flow 1 (95th percentile 18.73 ms)

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

Start at: 2018-04-24 12:12:37
End at: 2018-04-24 12:13:07
Local clock offset: -0.254 ms
Remote clock offset: -6.771 ms


# Below is generated by plot.py at 2018-04-24 16:21:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.97 Mbit/s
95th percentile per-packet one-way delay: 18.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 267.97 Mbit/s
95th percentile per-packet one-way delay: 18.890 ms
Loss rate: 0.00%
```

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

Flow 1 ingress (mean 267.97 Mbit/s)   Flow 1 egress (mean 267.97 Mbit/s)
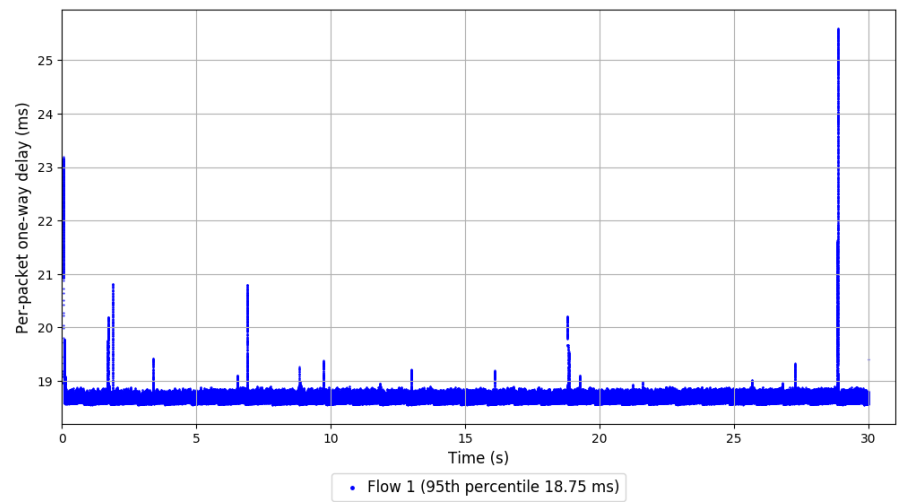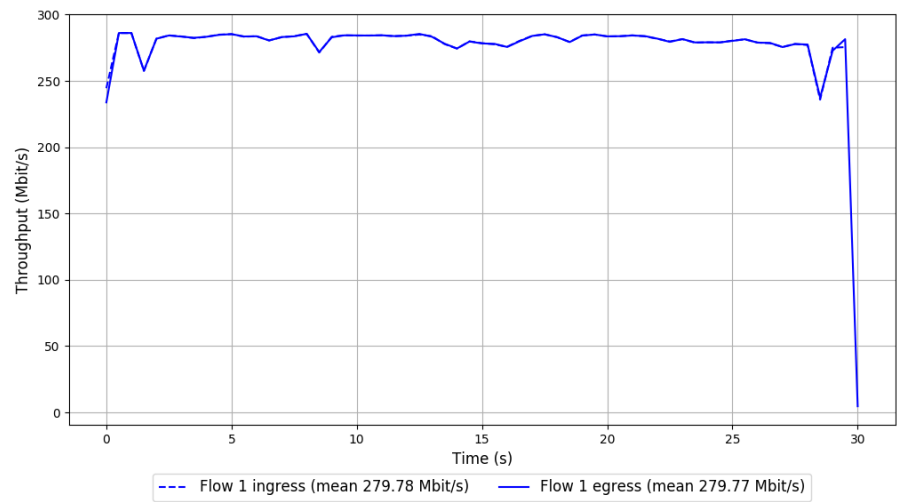

Flow 1 (95th percentile 18.89 ms)

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

Start at: 2018-04-24 12:38:07
End at: 2018-04-24 12:38:37
Local clock offset: -0.132 ms
Remote clock offset: -5.544 ms


# Below is generated by plot.py at 2018-04-24 16:23:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.77 Mbit/s
95th percentile per-packet one-way delay: 18.751 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 279.77 Mbit/s
95th percentile per-packet one-way delay: 18.751 ms
Loss rate: 0.00%
```

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

Flow 1 ingress (mean 279.78 Mbit/s)   Flow 1 egress (mean 279.77 Mbit/s)
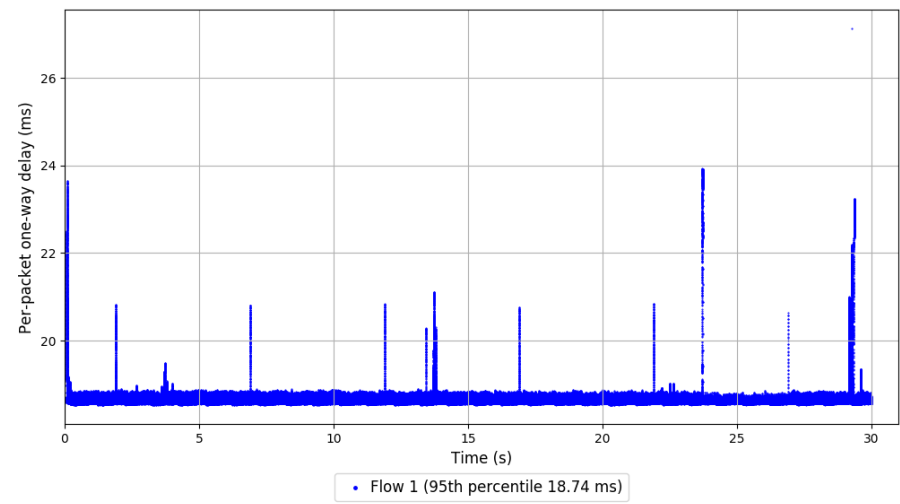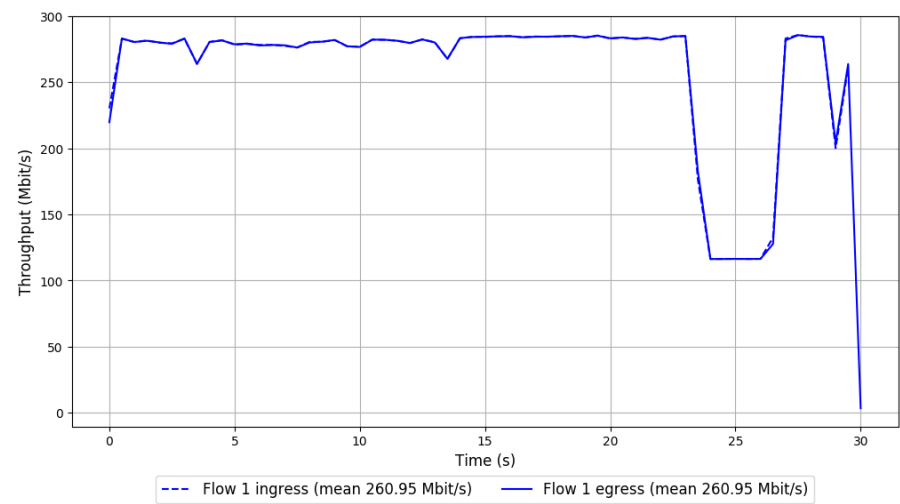

Flow 1 (95th percentile 18.75 ms)

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

Start at: 2018-04-24 13:03:22
End at: 2018-04-24 13:03:52
Local clock offset: -0.083 ms
Remote clock offset: -5.023 ms


# Below is generated by plot.py at 2018-04-24 16:23:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.95 Mbit/s
95th percentile per-packet one-way delay: 18.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 260.95 Mbit/s
95th percentile per-packet one-way delay: 18.743 ms
Loss rate: 0.00%
```

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

Flow 1 ingress (mean 260.95 Mbit/s)   Flow 1 egress (mean 260.95 Mbit/s)

Flow 1 (95th percentile 18.74 ms)

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

Start at: 2018-04-24 13:28:57
End at: 2018-04-24 13:29:27
Local clock offset: 0.135 ms
Remote clock offset: -5.189 ms


# Below is generated by plot.py at 2018-04-24 16:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.69 Mbit/s
95th percentile per-packet one-way delay: 18.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 272.69 Mbit/s
95th percentile per-packet one-way delay: 18.785 ms
Loss rate: 0.00%
```
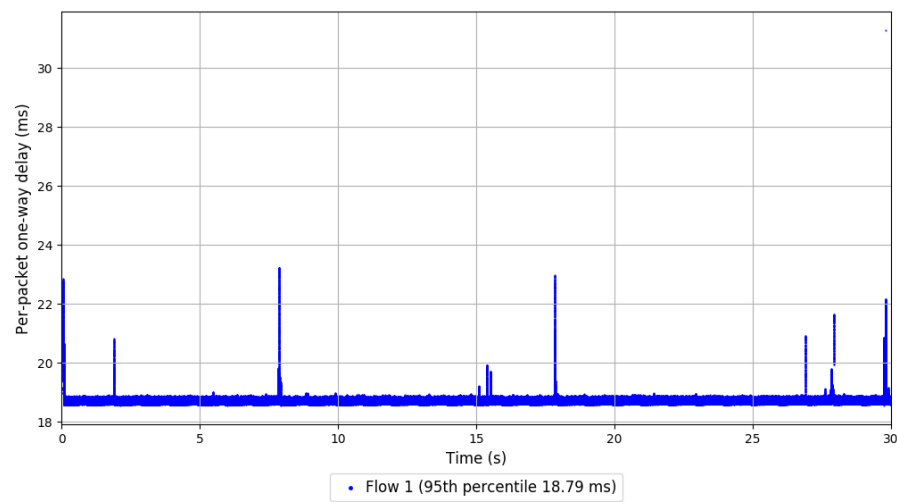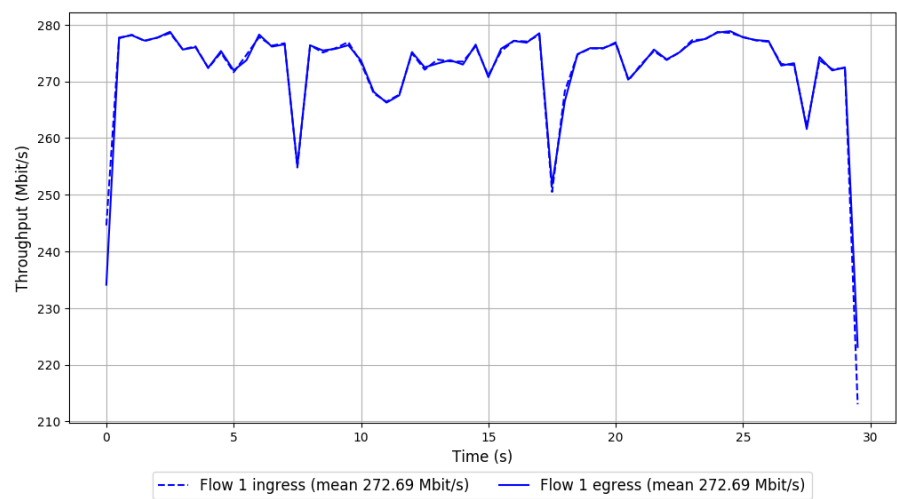
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 272.69 Mbit/s) — Flow 1 egress (mean 272.69 Mbit/s)
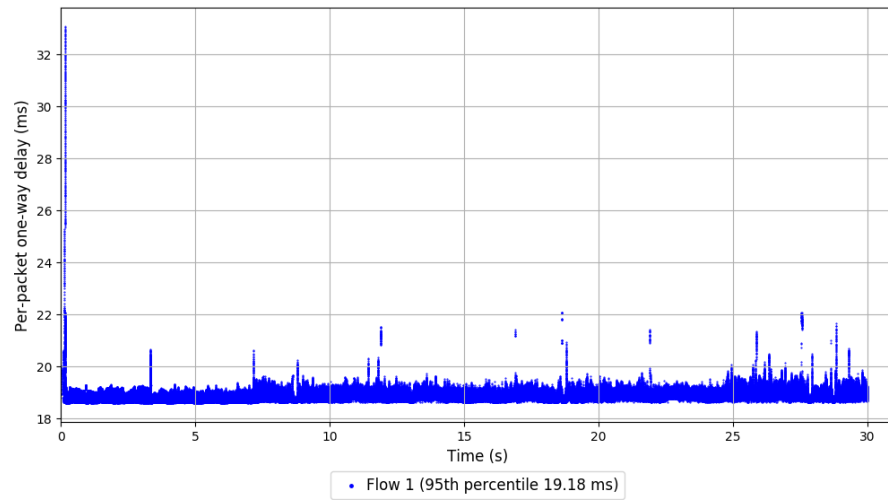

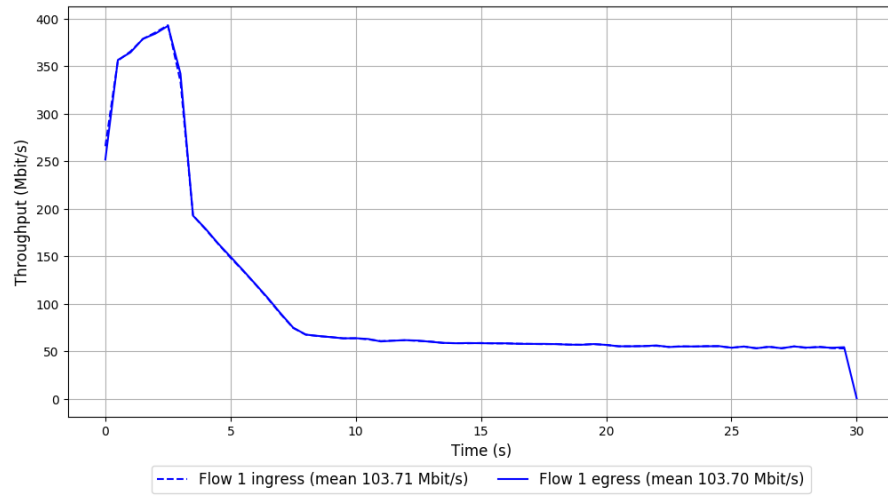Flow 1 (95th percentile 18.79 ms)

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```
Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 09:43:20
End at: 2018-04-24 09:43:50
Local clock offset: -0.344 ms
Remote clock offset: -5.349 ms


# Below is generated by plot.py at 2018-04-24 16:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 103.70 Mbit/s
95th percentile per-packet one-way delay: 19.183 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 103.70 Mbit/s
95th percentile per-packet one-way delay: 19.183 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 103.71 Mbit/s) ----   Flow 1 egress (mean 103.70 Mbit/s) ——

• Flow 1 (95th percentile 19.18 ms)

```
Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 10:08:27
End at: 2018-04-24 10:08:57
Local clock offset: -0.386 ms
Remote clock offset: -5.17 ms


# Below is generated by plot.py at 2018-04-24 16:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 19.335 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 19.335 ms
Loss rate: 0.02%
```
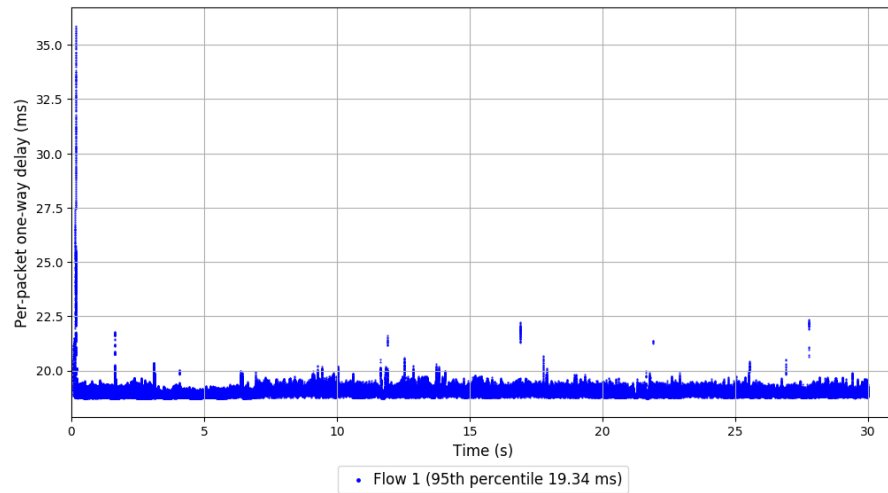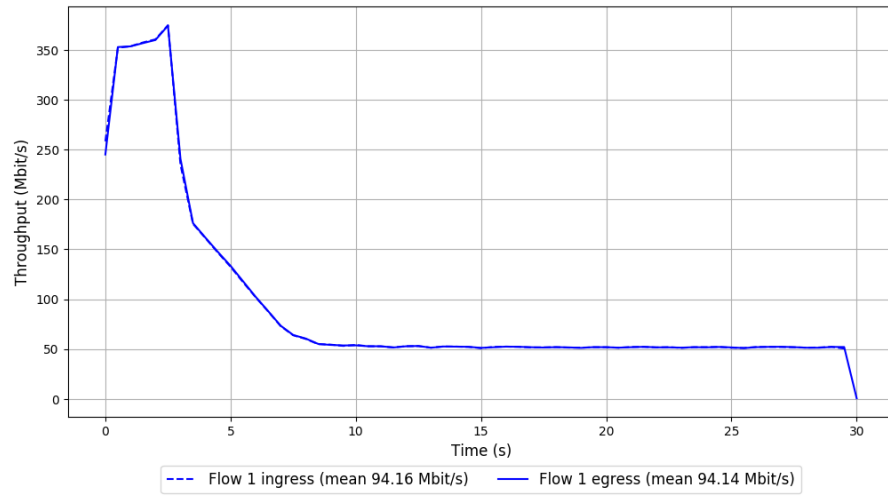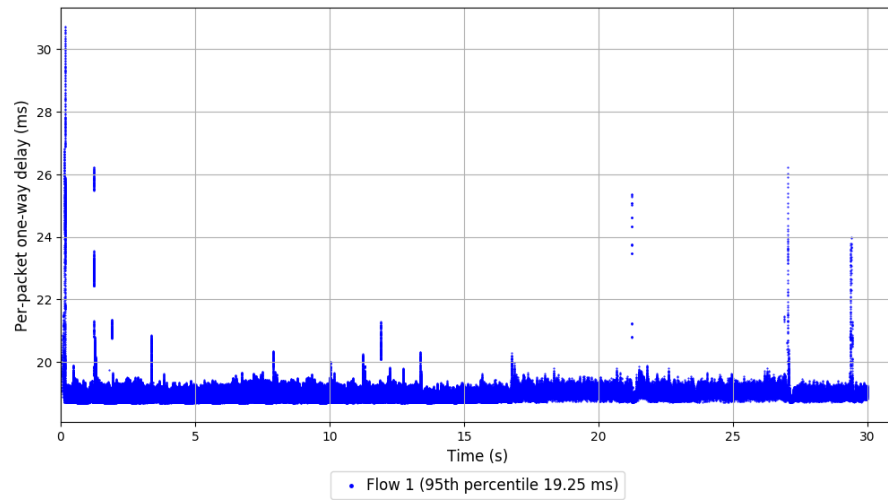
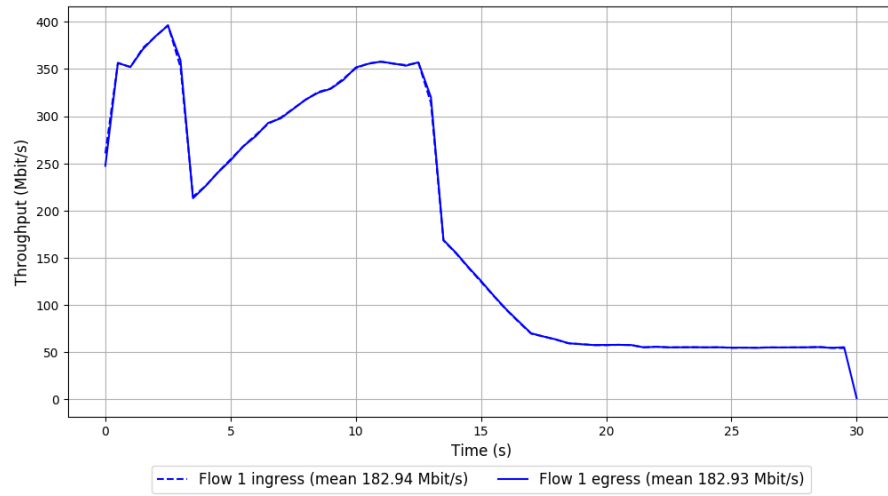Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 10:33:47
End at: 2018-04-24 10:34:17
Local clock offset: -0.438 ms
Remote clock offset: -5.282 ms


# Below is generated by plot.py at 2018-04-24 16:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.93 Mbit/s
95th percentile per-packet one-way delay: 19.246 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.93 Mbit/s
95th percentile per-packet one-way delay: 19.246 ms
Loss rate: 0.00%
```

Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 182.94 Mbit/s)   Flow 1 egress (mean 182.93 Mbit/s)
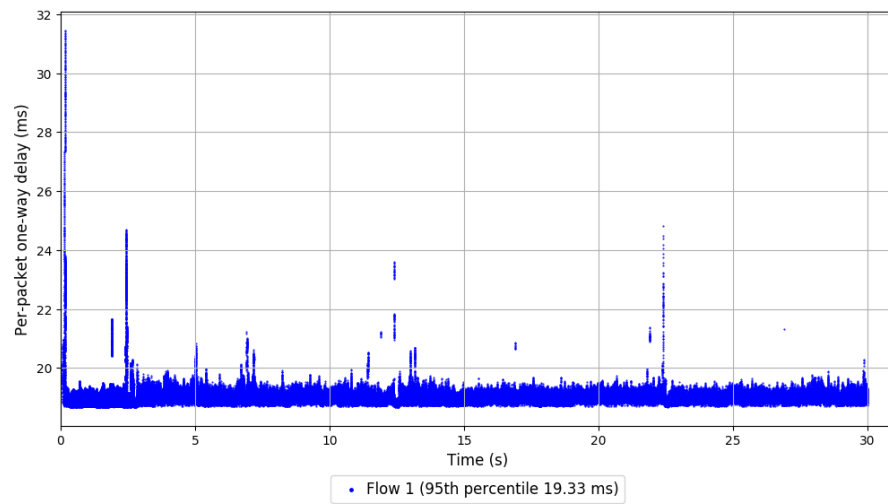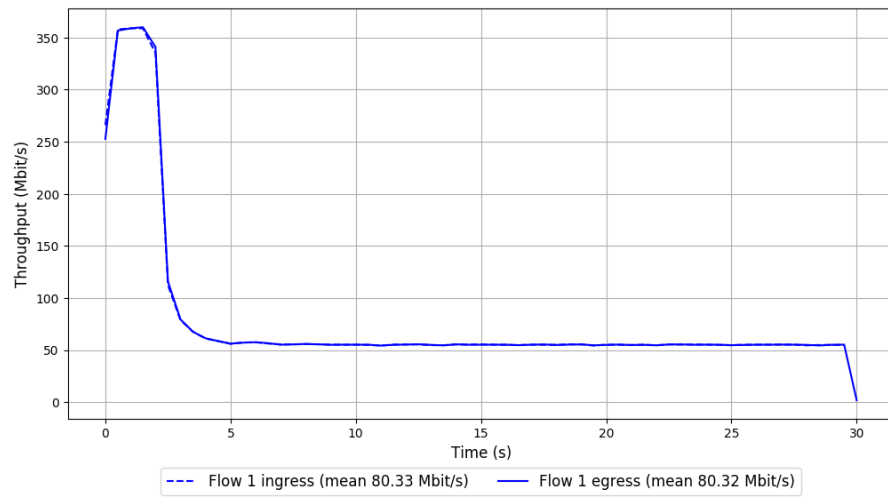

Flow 1 (95th percentile 19.25 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 10:58:45
End at: 2018-04-24 10:59:15
Local clock offset: -0.127 ms
Remote clock offset: -5.682 ms


# Below is generated by plot.py at 2018-04-24 16:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.32 Mbit/s
95th percentile per-packet one-way delay: 19.331 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 80.32 Mbit/s
95th percentile per-packet one-way delay: 19.331 ms
Loss rate: 0.02%
```

Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 80.33 Mbit/s)   Flow 1 egress (mean 80.32 Mbit/s)

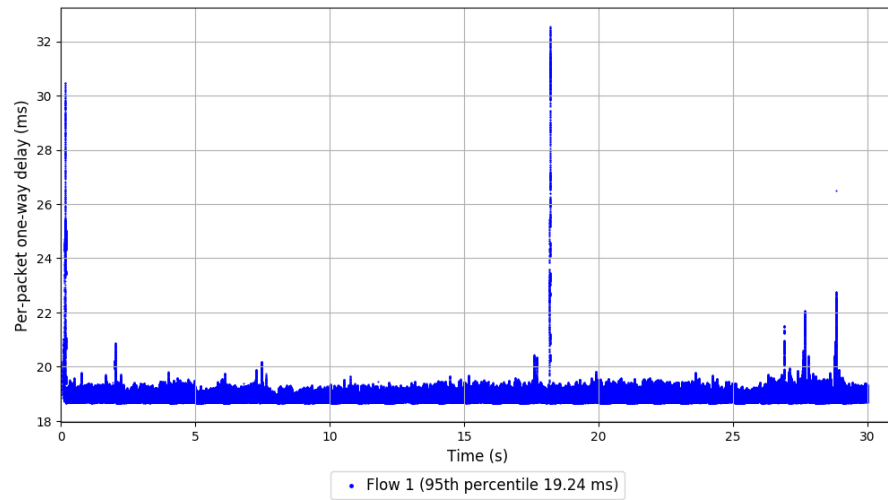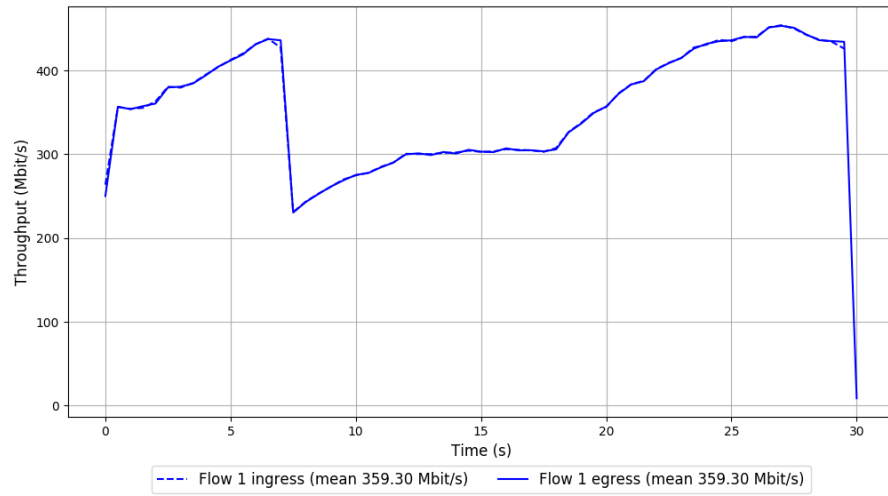Flow 1 (95th percentile 19.33 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 11:23:40
End at: 2018-04-24 11:24:10
Local clock offset: -0.158 ms
Remote clock offset: -6.323 ms


# Below is generated by plot.py at 2018-04-24 16:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.30 Mbit/s
95th percentile per-packet one-way delay: 19.236 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.30 Mbit/s
95th percentile per-packet one-way delay: 19.236 ms
Loss rate: 0.00%
```
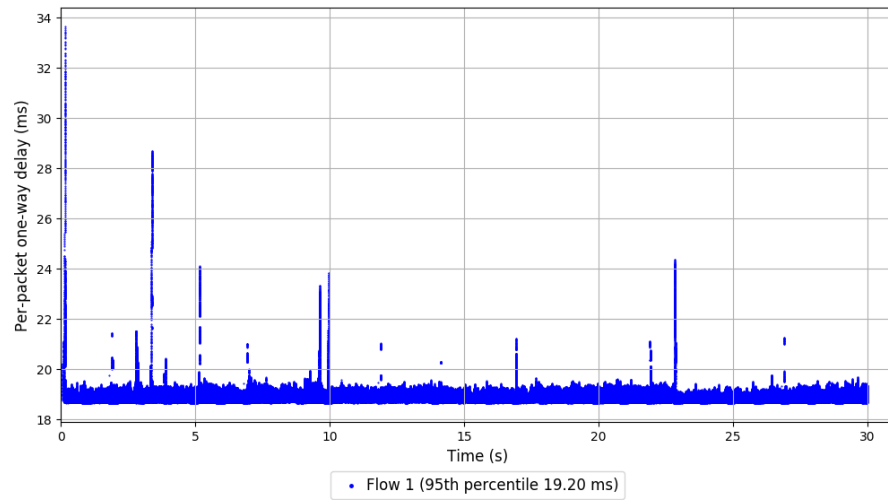
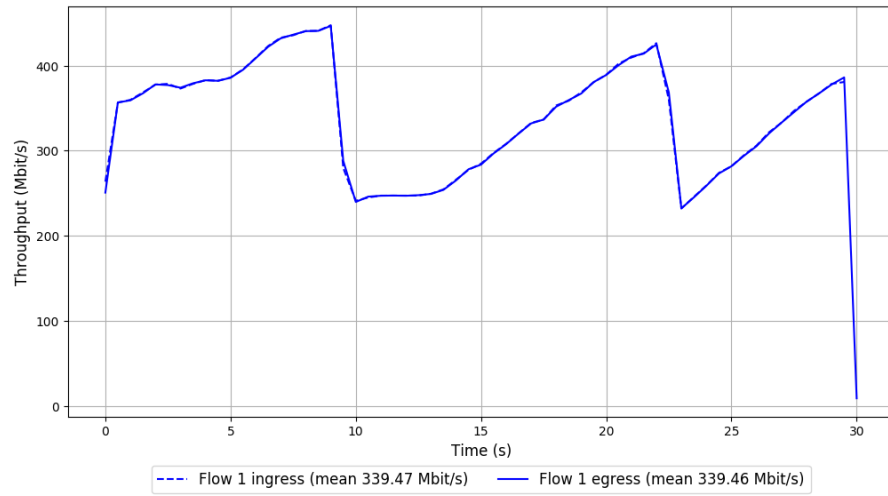Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 11:48:44
End at: 2018-04-24 11:49:14
Local clock offset: -0.392 ms
Remote clock offset: -6.544 ms


# Below is generated by plot.py at 2018-04-24 16:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.46 Mbit/s
95th percentile per-packet one-way delay: 19.197 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 339.46 Mbit/s
95th percentile per-packet one-way delay: 19.197 ms
Loss rate: 0.00%
```

Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 339.47 Mbit/s)   Flow 1 egress (mean 339.46 Mbit/s)
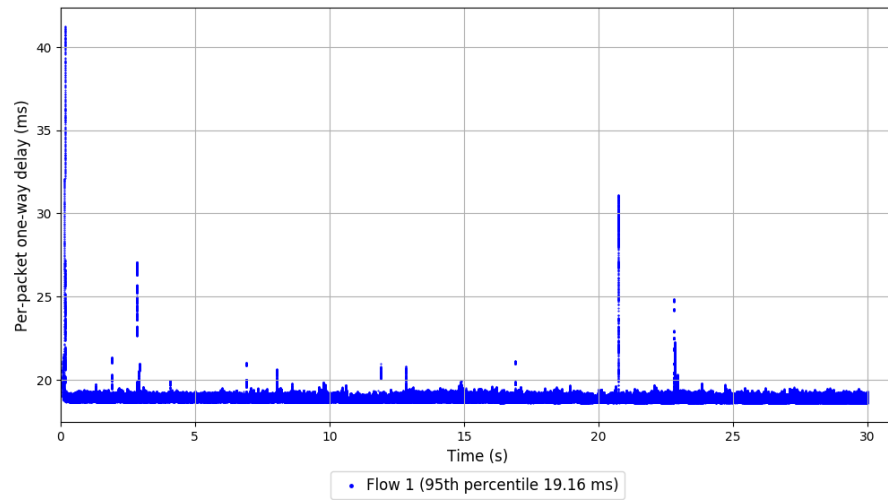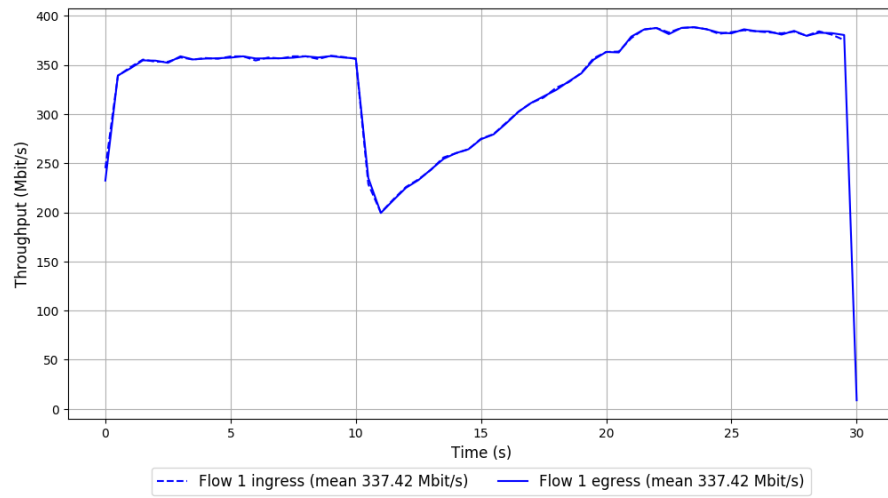

Flow 1 (95th percentile 19.20 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 12:14:14
End at: 2018-04-24 12:14:44
Local clock offset: -0.137 ms
Remote clock offset: -6.494 ms


# Below is generated by plot.py at 2018-04-24 16:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.42 Mbit/s
95th percentile per-packet one-way delay: 19.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 337.42 Mbit/s
95th percentile per-packet one-way delay: 19.165 ms
Loss rate: 0.00%
```

Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 337.42 Mbit/s)   Flow 1 egress (mean 337.42 Mbit/s)
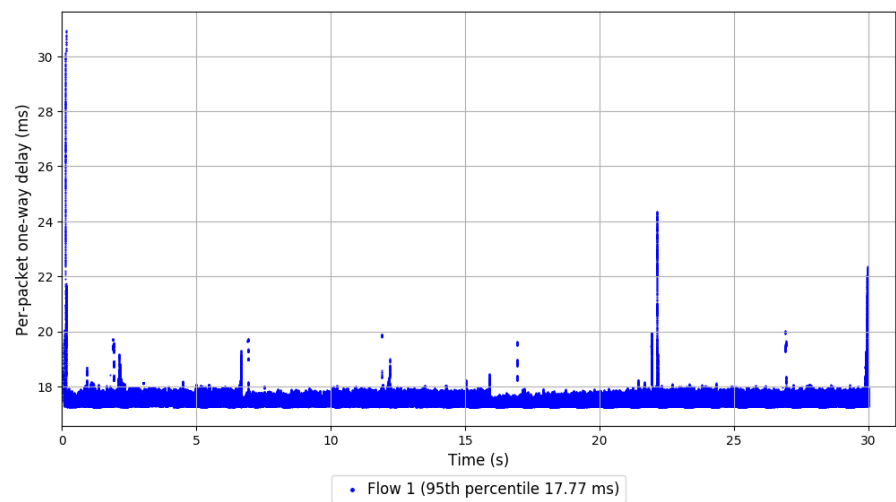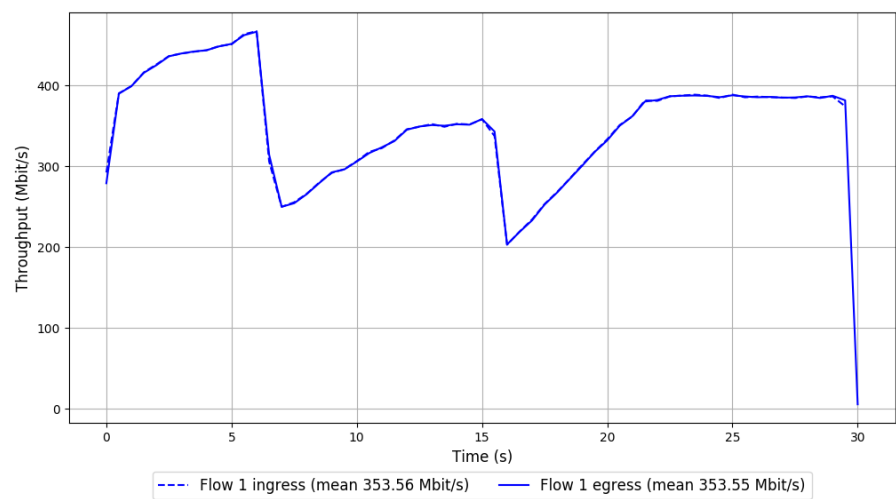

Flow 1 (95th percentile 19.16 ms)

197

```
Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 12:39:44
End at: 2018-04-24 12:40:14
Local clock offset: -0.223 ms
Remote clock offset: -5.503 ms


# Below is generated by plot.py at 2018-04-24 16:24:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.55 Mbit/s
95th percentile per-packet one-way delay: 17.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 353.55 Mbit/s
95th percentile per-packet one-way delay: 17.773 ms
Loss rate: 0.00%
```

Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 353.56 Mbit/s)   Flow 1 egress (mean 353.55 Mbit/s)
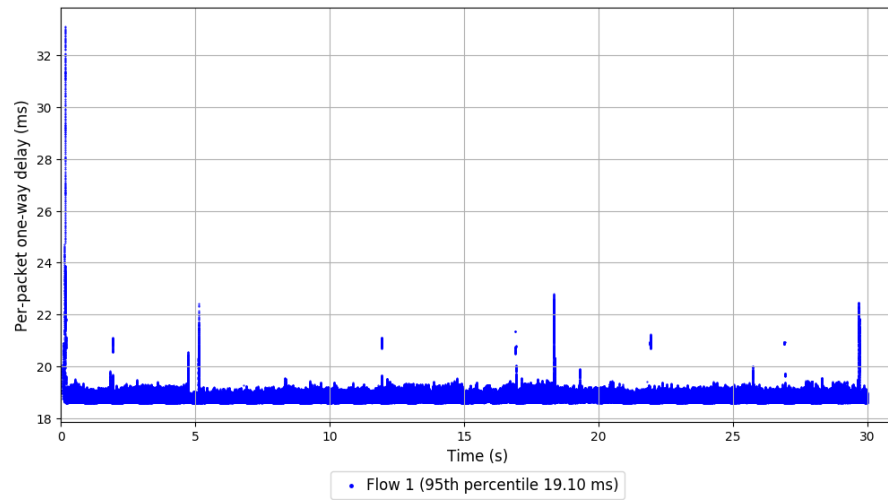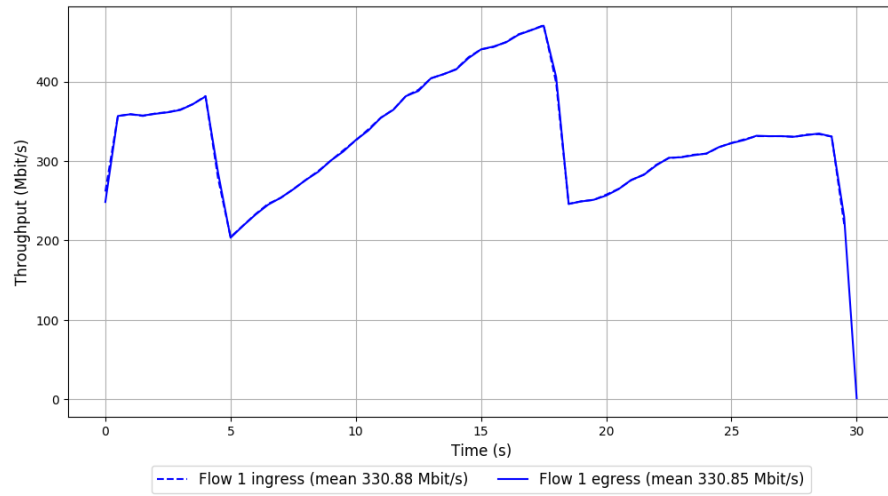

Flow 1 (95th percentile 17.77 ms)

199

```
Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 13:04:57
End at: 2018-04-24 13:05:27
Local clock offset: -0.079 ms
Remote clock offset: -5.009 ms


# Below is generated by plot.py at 2018-04-24 16:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.85 Mbit/s
95th percentile per-packet one-way delay: 19.098 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 330.85 Mbit/s
95th percentile per-packet one-way delay: 19.098 ms
Loss rate: 0.02%
```

Run 9: Report of TCP Vegas — Data Link

```
Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 13:30:33
End at: 2018-04-24 13:31:03
Local clock offset: 0.136 ms
Remote clock offset: -5.239 ms


# Below is generated by plot.py at 2018-04-24 16:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 438.36 Mbit/s
95th percentile per-packet one-way delay: 19.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 438.36 Mbit/s
95th percentile per-packet one-way delay: 19.189 ms
Loss rate: 0.00%
```
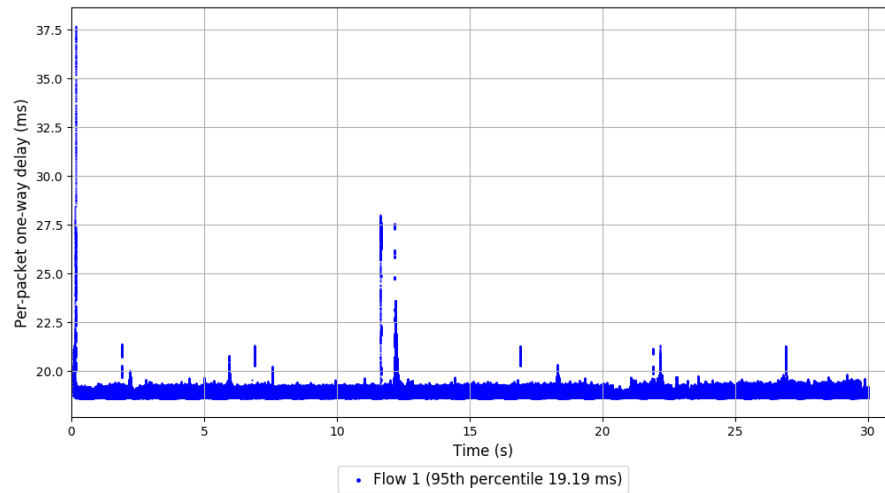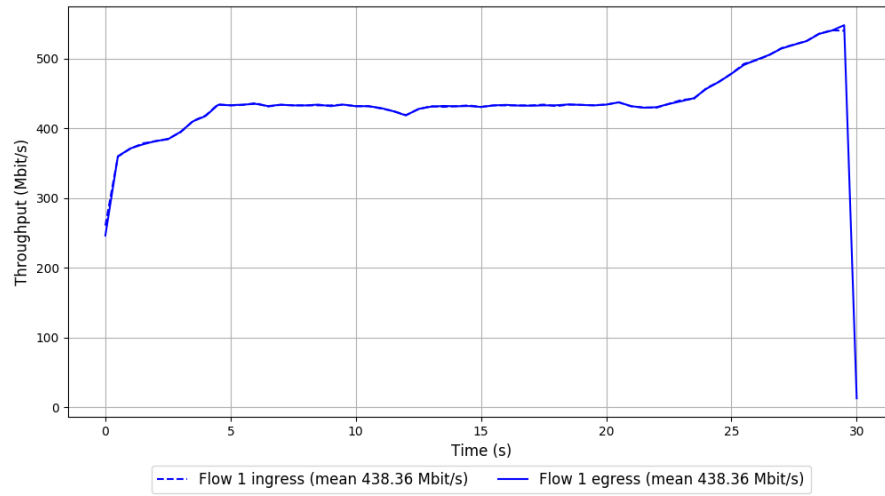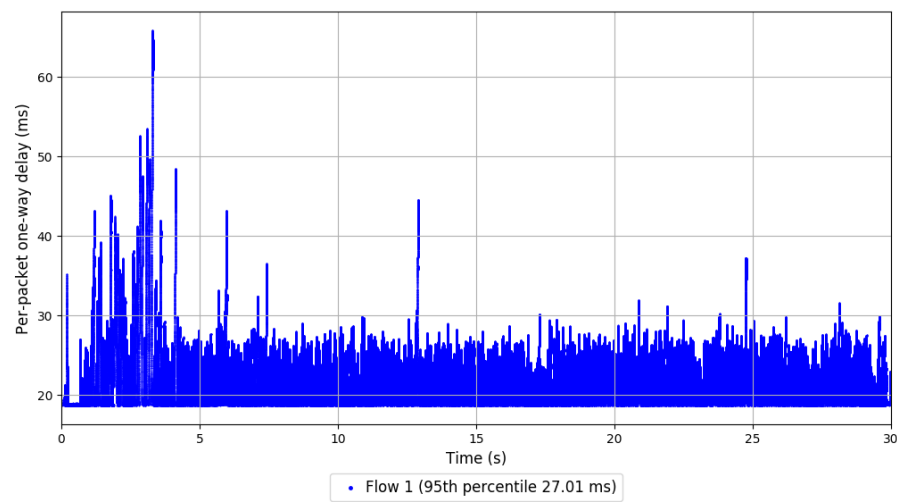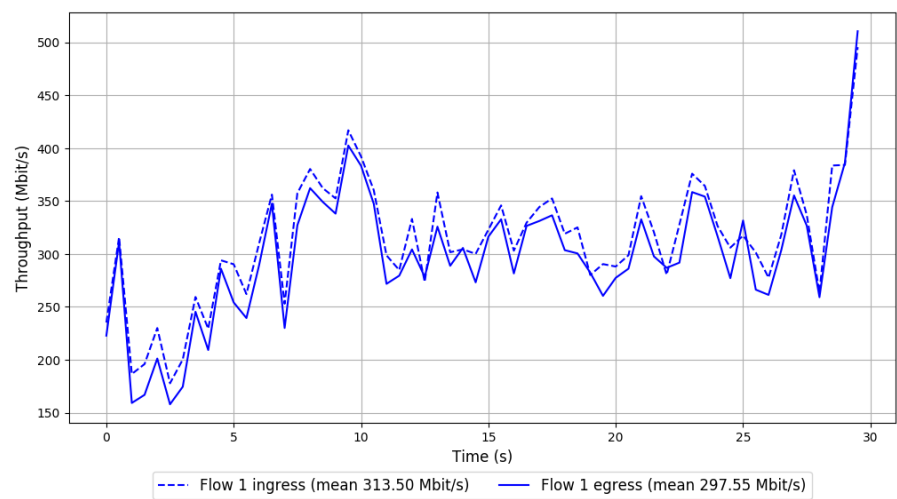
Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2018-04-24 09:37:28
End at: 2018-04-24 09:37:58
Local clock offset: -0.271 ms
Remote clock offset: -5.219 ms


# Below is generated by plot.py at 2018-04-24 16:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 297.55 Mbit/s
95th percentile per-packet one-way delay: 27.013 ms
Loss rate: 5.09%
-- Flow 1:
Average throughput: 297.55 Mbit/s
95th percentile per-packet one-way delay: 27.013 ms
Loss rate: 5.09%
```

Run 1: Report of Verus — Data Link

Flow 1 ingress (mean 313.50 Mbit/s) ---- Flow 1 egress (mean 297.55 Mbit/s)

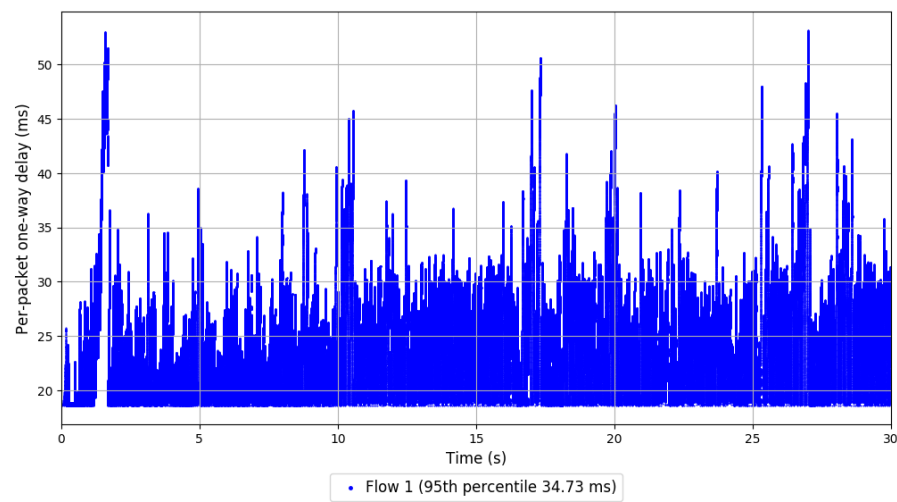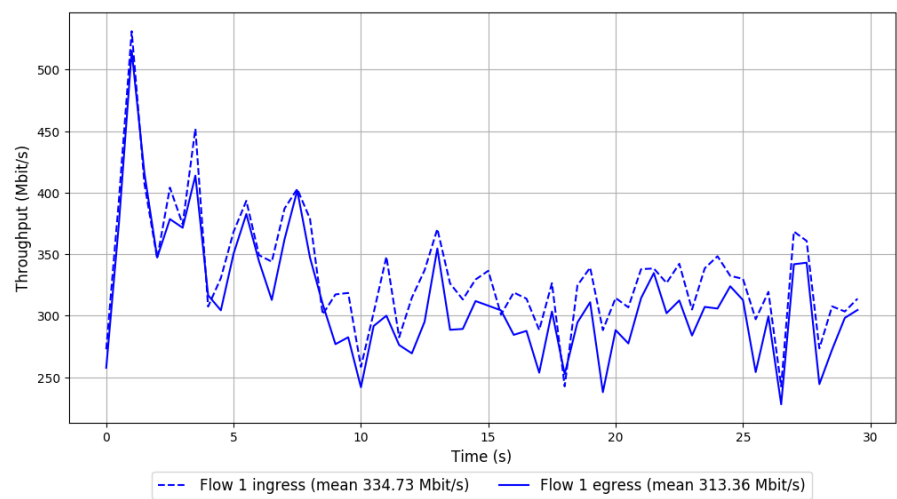• Flow 1 (95th percentile 27.01 ms)

```
Run 2: Statistics of Verus

Start at: 2018-04-24 10:02:33
End at: 2018-04-24 10:03:03
Local clock offset: -0.381 ms
Remote clock offset: -5.308 ms


# Below is generated by plot.py at 2018-04-24 16:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.36 Mbit/s
95th percentile per-packet one-way delay: 34.731 ms
Loss rate: 6.38%
-- Flow 1:
Average throughput: 313.36 Mbit/s
95th percentile per-packet one-way delay: 34.731 ms
Loss rate: 6.38%
```
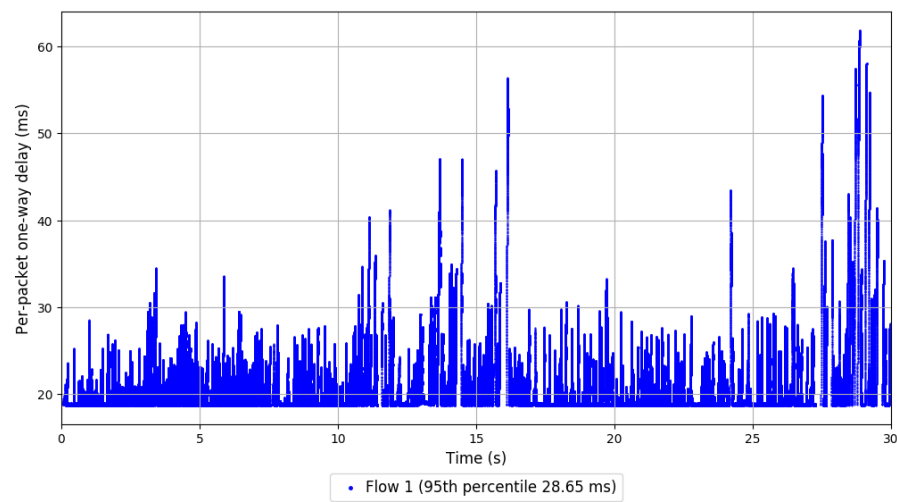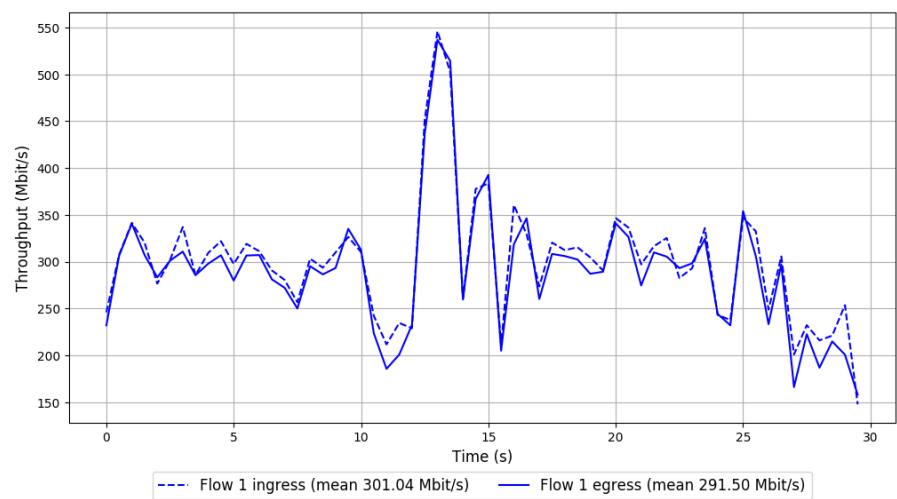
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2018-04-24 10:27:55
End at: 2018-04-24 10:28:25
Local clock offset: -0.389 ms
Remote clock offset: -5.111 ms


# Below is generated by plot.py at 2018-04-24 16:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.50 Mbit/s
95th percentile per-packet one-way delay: 28.648 ms
Loss rate: 3.17%
-- Flow 1:
Average throughput: 291.50 Mbit/s
95th percentile per-packet one-way delay: 28.648 ms
Loss rate: 3.17%
```
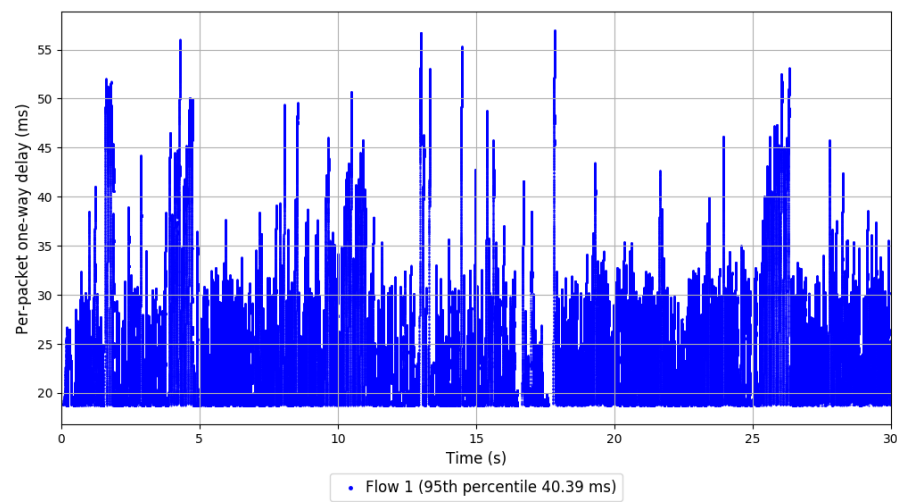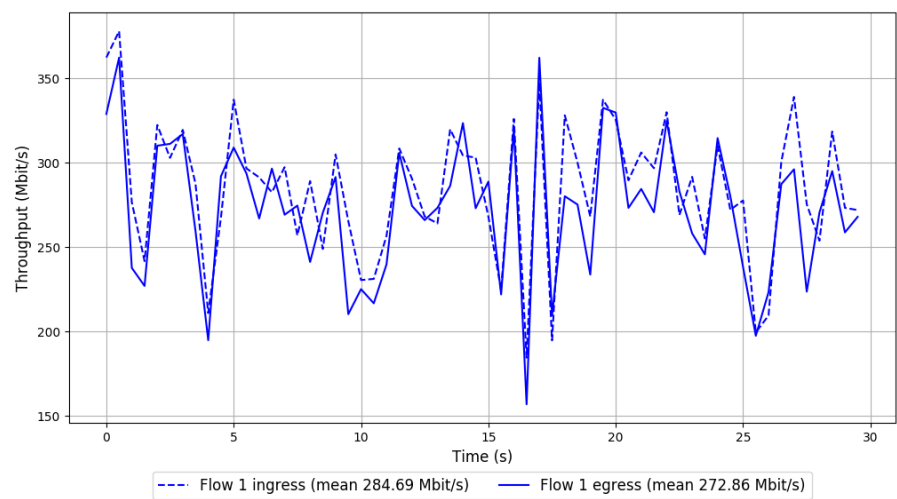
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-04-24 10:52:55
End at: 2018-04-24 10:53:25
Local clock offset: -0.132 ms
Remote clock offset: -5.579 ms


# Below is generated by plot.py at 2018-04-24 16:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.86 Mbit/s
95th percentile per-packet one-way delay: 40.389 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 272.86 Mbit/s
95th percentile per-packet one-way delay: 40.389 ms
Loss rate: 4.15%
```
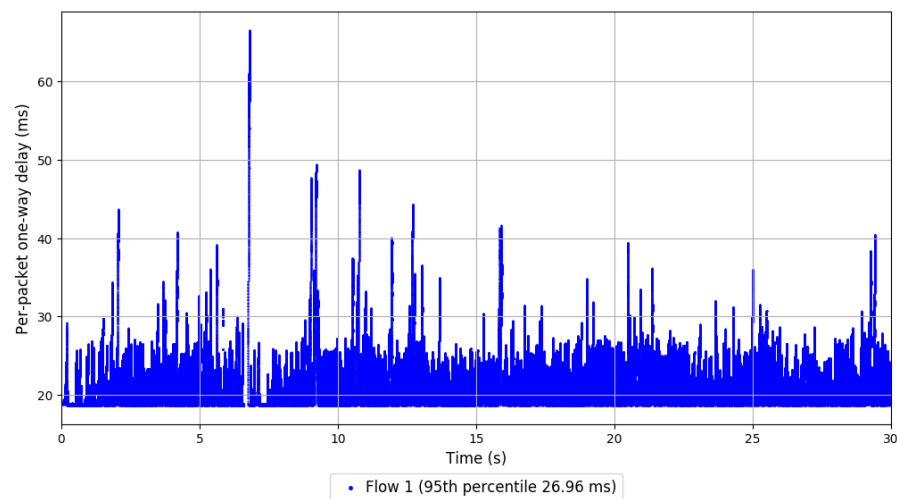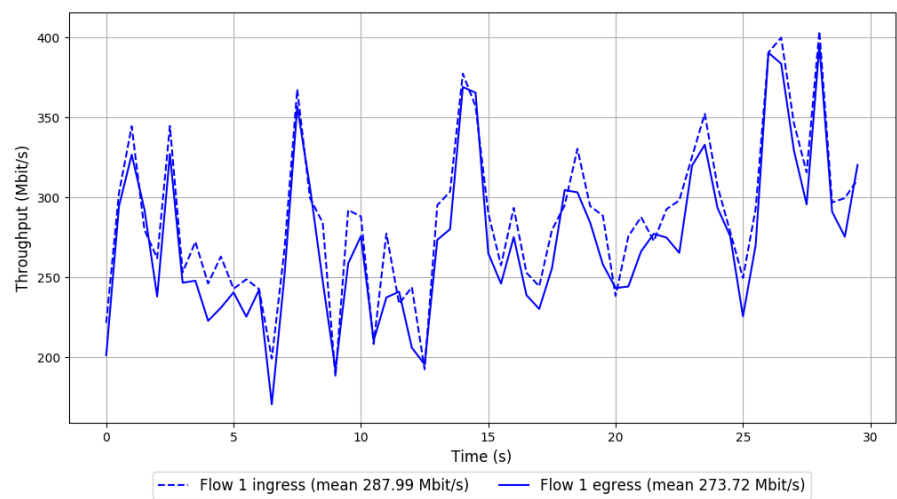
Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2018-04-24 11:17:51
End at: 2018-04-24 11:18:21
Local clock offset: 0.129 ms
Remote clock offset: -6.125 ms


# Below is generated by plot.py at 2018-04-24 16:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.72 Mbit/s
95th percentile per-packet one-way delay: 26.964 ms
Loss rate: 4.95%
-- Flow 1:
Average throughput: 273.72 Mbit/s
95th percentile per-packet one-way delay: 26.964 ms
Loss rate: 4.95%
```
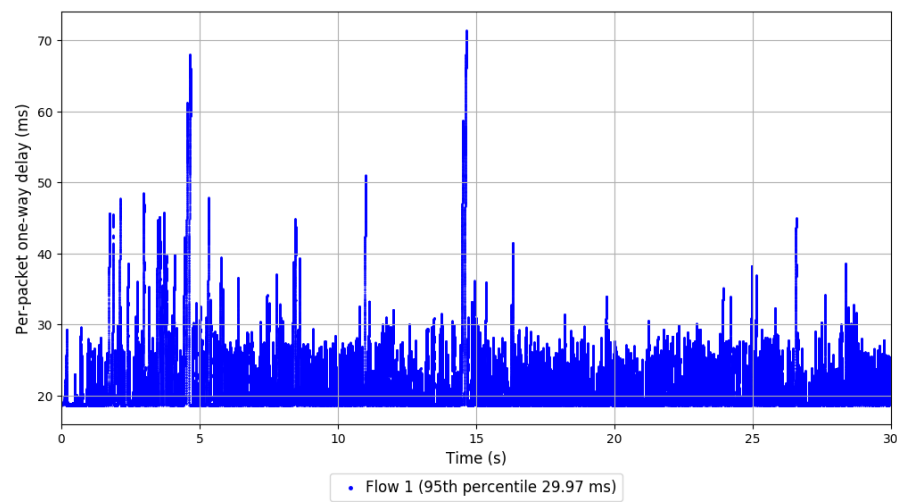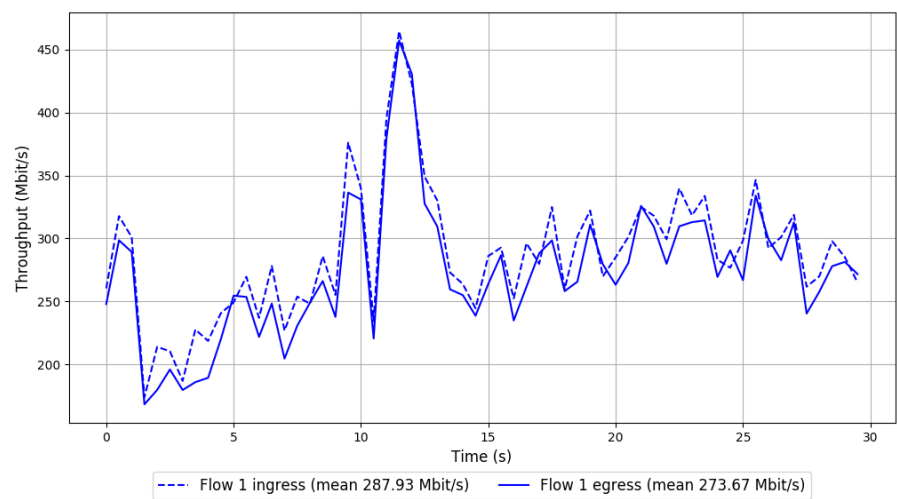
Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2018-04-24 11:42:53
End at: 2018-04-24 11:43:23
Local clock offset: -0.303 ms
Remote clock offset: -6.494 ms


# Below is generated by plot.py at 2018-04-24 16:29:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 273.67 Mbit/s
95th percentile per-packet one-way delay: 29.973 ms
Loss rate: 4.95%
-- Flow 1:
Average throughput: 273.67 Mbit/s
95th percentile per-packet one-way delay: 29.973 ms
Loss rate: 4.95%
```
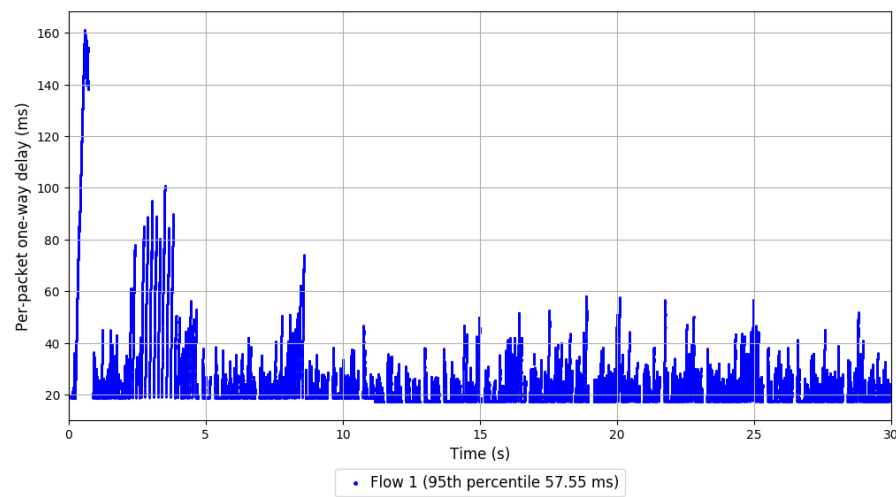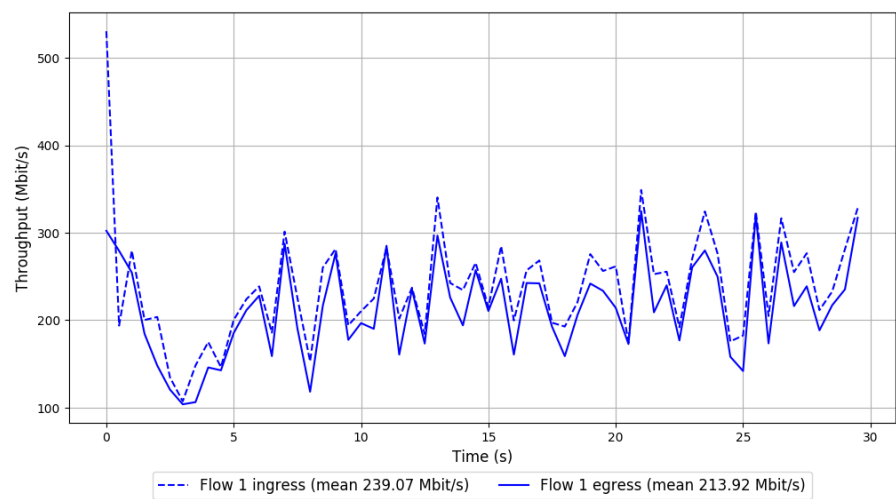
Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2018-04-24 12:08:25
End at: 2018-04-24 12:08:55
Local clock offset: -0.256 ms
Remote clock offset: -6.688 ms


# Below is generated by plot.py at 2018-04-24 16:30:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.92 Mbit/s
95th percentile per-packet one-way delay: 57.547 ms
Loss rate: 10.52%
-- Flow 1:
Average throughput: 213.92 Mbit/s
95th percentile per-packet one-way delay: 57.547 ms
Loss rate: 10.52%
```

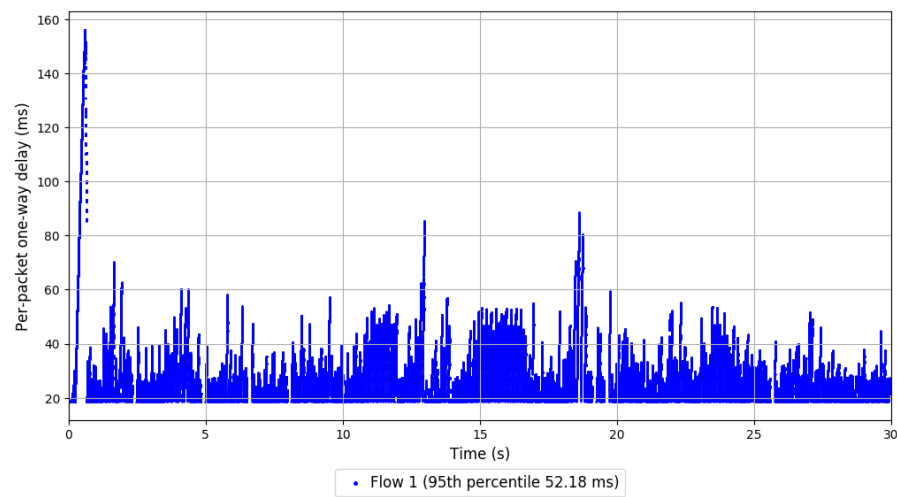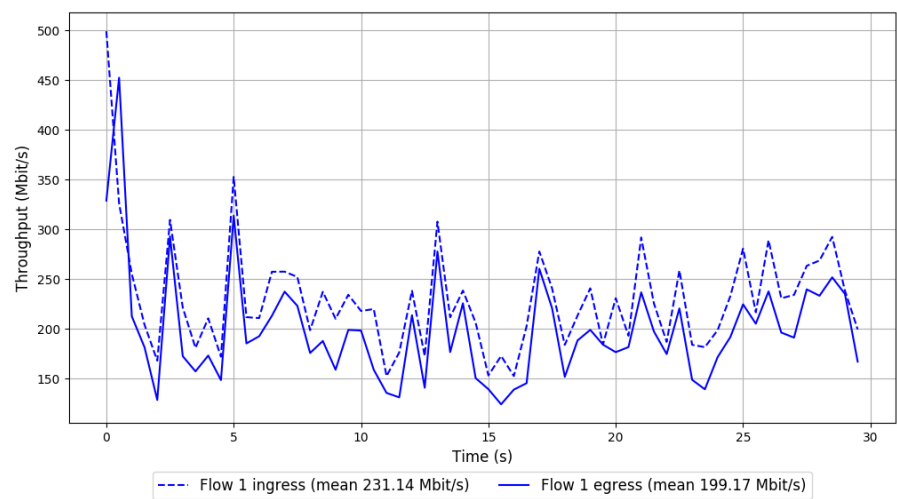## Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: 2018-04-24 12:33:55
End at: 2018-04-24 12:34:25
Local clock offset: -0.105 ms
Remote clock offset: -5.545 ms


# Below is generated by plot.py at 2018-04-24 16:31:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.17 Mbit/s
95th percentile per-packet one-way delay: 52.181 ms
Loss rate: 13.81%
-- Flow 1:
Average throughput: 199.17 Mbit/s
95th percentile per-packet one-way delay: 52.181 ms
Loss rate: 13.81%
```

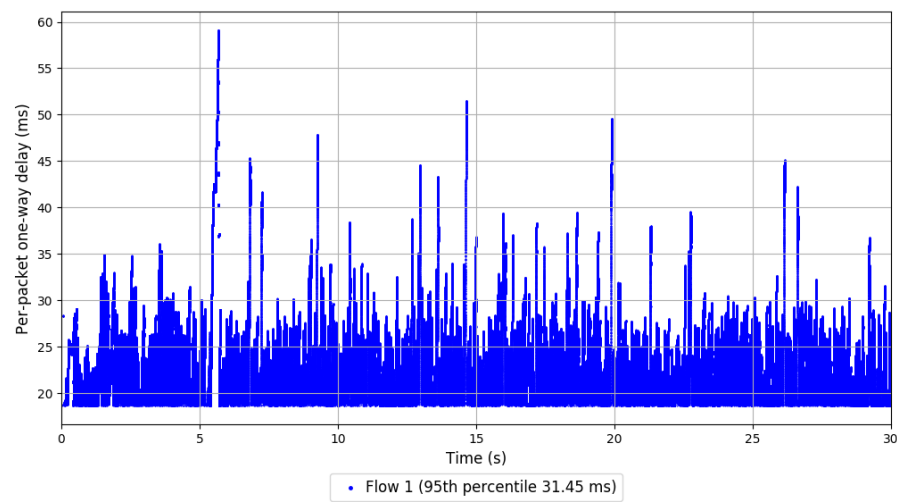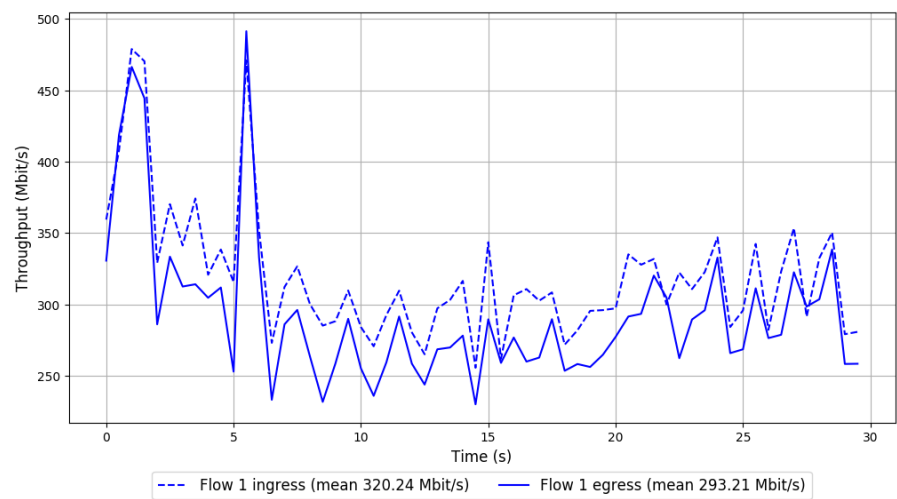## Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2018-04-24 12:59:06
End at: 2018-04-24 12:59:36
Local clock offset: -0.143 ms
Remote clock offset: -5.038 ms


# Below is generated by plot.py at 2018-04-24 16:32:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 293.21 Mbit/s
95th percentile per-packet one-way delay: 31.449 ms
Loss rate: 8.44%
-- Flow 1:
Average throughput: 293.21 Mbit/s
95th percentile per-packet one-way delay: 31.449 ms
Loss rate: 8.44%
```
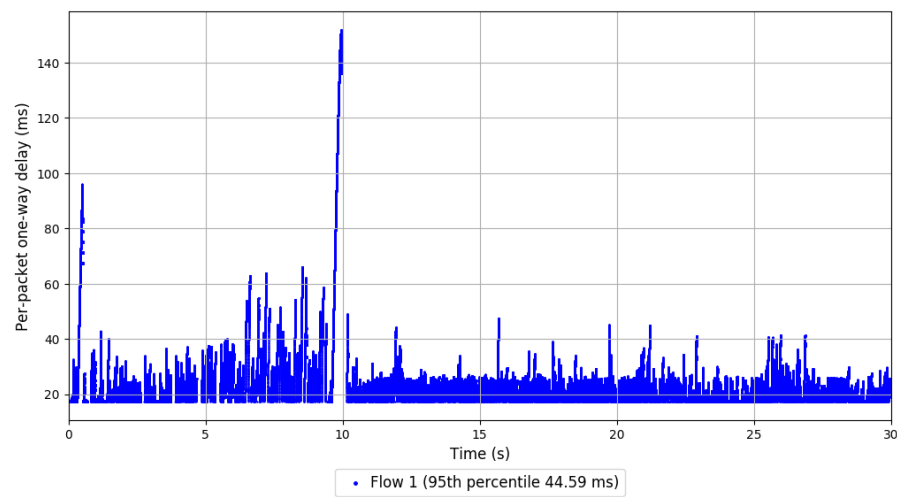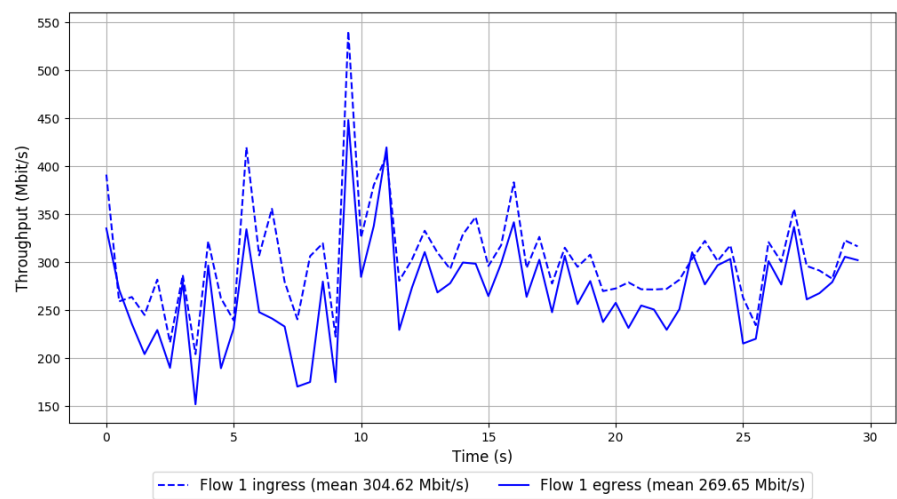
Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2018-04-24 13:24:42
End at: 2018-04-24 13:25:12
Local clock offset: 0.027 ms
Remote clock offset: -5.013 ms

# Below is generated by plot.py at 2018-04-24 16:32:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.65 Mbit/s
95th percentile per-packet one-way delay: 44.592 ms
Loss rate: 11.47%
-- Flow 1:
Average throughput: 269.65 Mbit/s
95th percentile per-packet one-way delay: 44.592 ms
Loss rate: 11.47%
```

Run 10: Report of Verus — Data Link

Flow 1 ingress (mean 304.62 Mbit/s) --- Flow 1 egress (mean 269.65 Mbit/s)
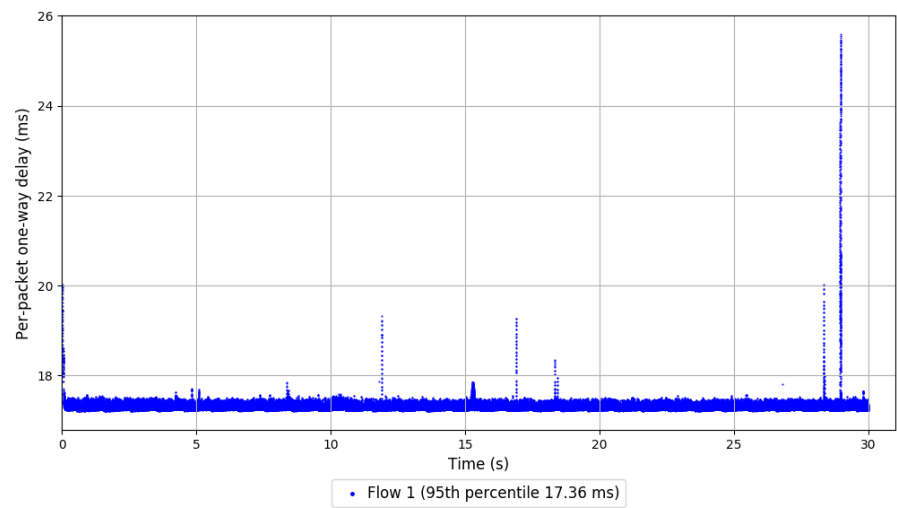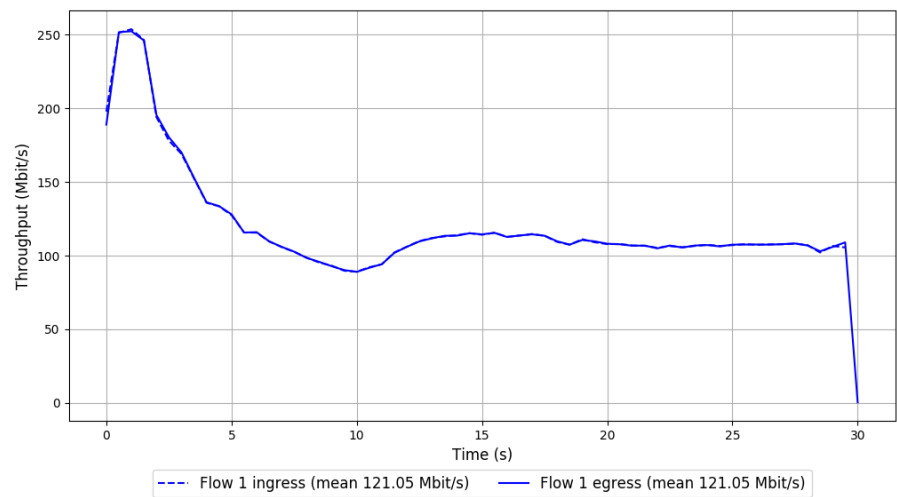

Flow 1 (95th percentile 44.59 ms)

```
Run 1: Statistics of Copa

Start at: 2018-04-24 09:39:00
End at: 2018-04-24 09:39:31
Local clock offset: -0.375 ms
Remote clock offset: -5.324 ms


# Below is generated by plot.py at 2018-04-24 16:32:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 121.05 Mbit/s
95th percentile per-packet one-way delay: 17.364 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 121.05 Mbit/s
95th percentile per-packet one-way delay: 17.364 ms
Loss rate: 0.00%
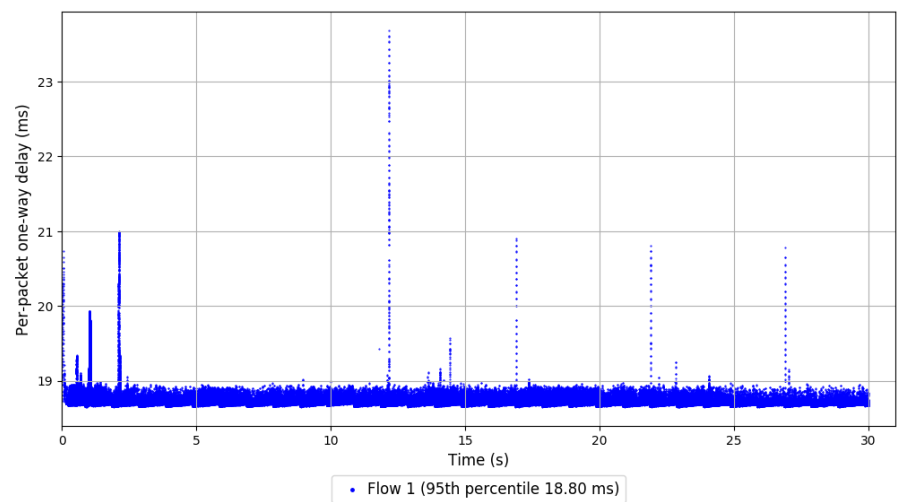```

Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2018-04-24 10:04:06
End at: 2018-04-24 10:04:36
Local clock offset: -0.377 ms
Remote clock offset: -5.184 ms

Below is generated by plot.py at 2018-04-24 16:32:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 121.14 Mbit/s
95th percentile per-packet one-way delay: 18.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 121.14 Mbit/s
95th percentile per-packet one-way delay: 18.805 ms
Loss rate: 0.00%
```
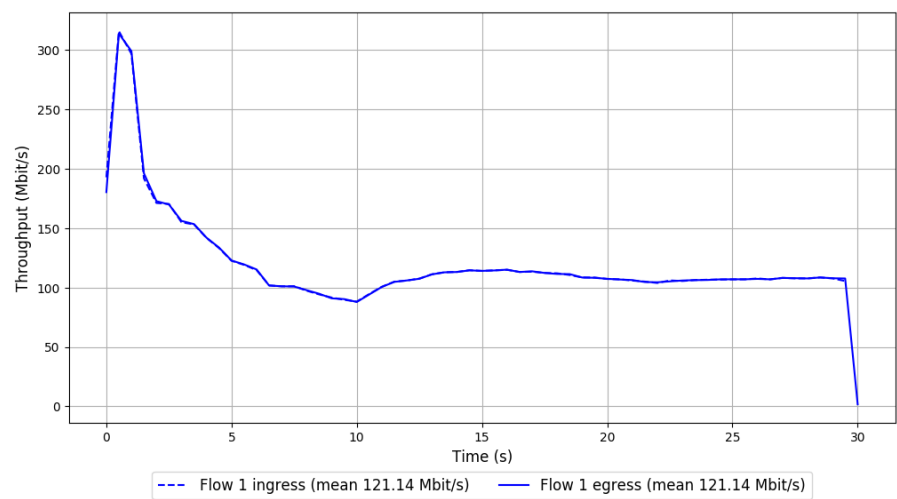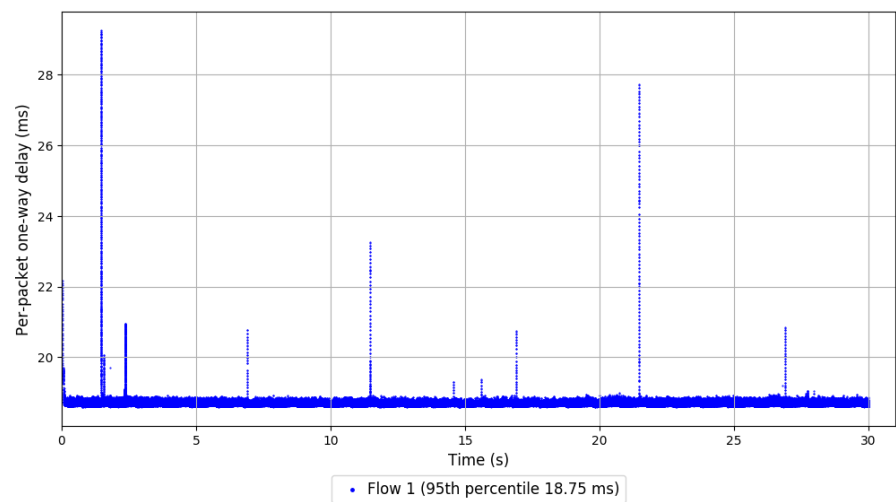
Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2018-04-24 10:29:27
End at: 2018-04-24 10:29:57
Local clock offset: -0.351 ms
Remote clock offset: -5.115 ms

Below is generated by plot.py at 2018-04-24 16:32:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 118.97 Mbit/s
95th percentile per-packet one-way delay: 18.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 118.97 Mbit/s
95th percentile per-packet one-way delay: 18.755 ms
Loss rate: 0.00%
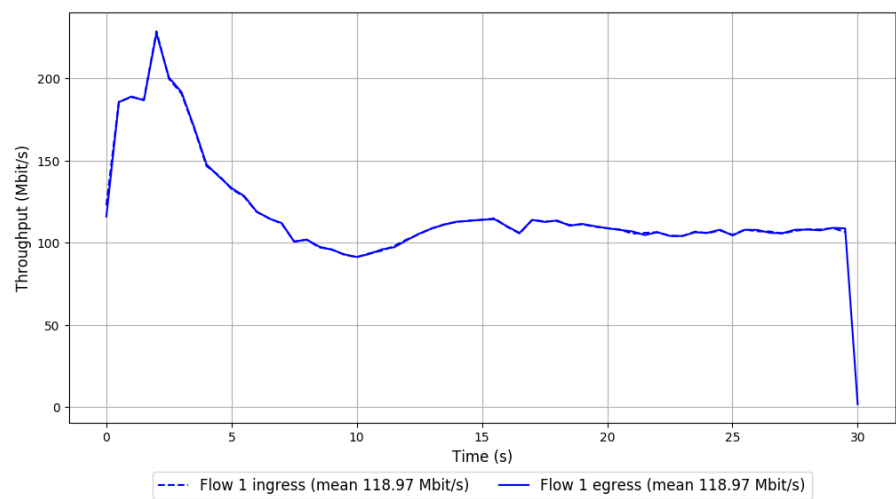```

Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2018-04-24 10:54:26
End at: 2018-04-24 10:54:56
Local clock offset: -0.105 ms
Remote clock offset: -5.573 ms


# Below is generated by plot.py at 2018-04-24 16:33:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 116.82 Mbit/s
95th percentile per-packet one-way delay: 18.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 116.82 Mbit/s
95th percentile per-packet one-way delay: 18.797 ms
Loss rate: 0.00%
```
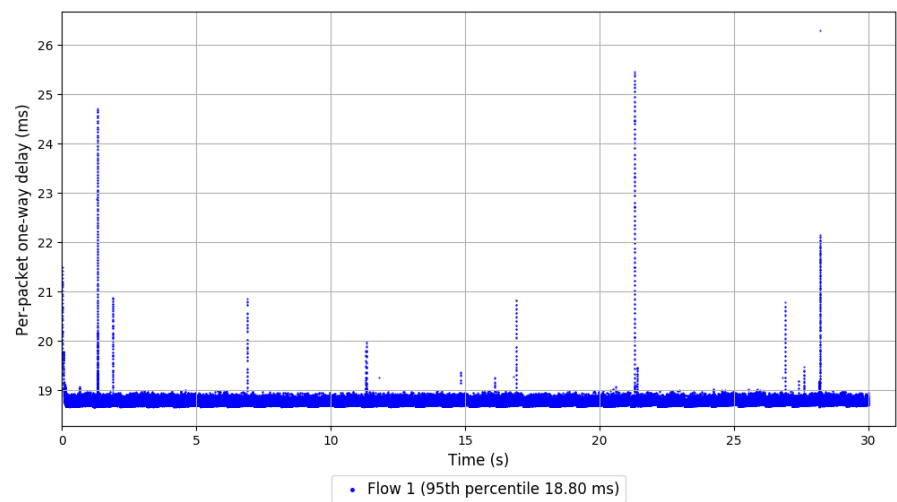
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2018-04-24 11:19:23
End at: 2018-04-24 11:19:53
Local clock offset: 0.041 ms
Remote clock offset: -6.231 ms


# Below is generated by plot.py at 2018-04-24 16:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.91 Mbit/s
95th percentile per-packet one-way delay: 18.750 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.91 Mbit/s
95th percentile per-packet one-way delay: 18.750 ms
Loss rate: 0.00%
```
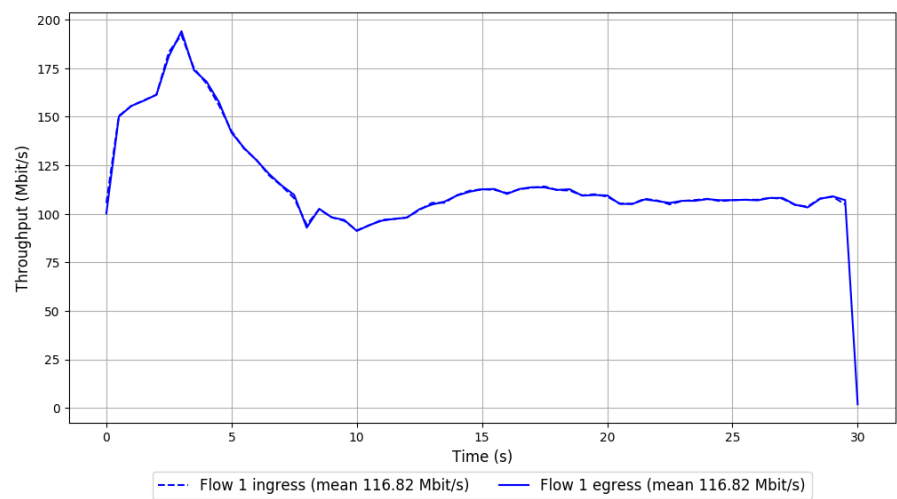
Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: 2018-04-24 11:44:25
End at: 2018-04-24 11:44:55
Local clock offset: -0.31 ms
Remote clock offset: -6.516 ms


# Below is generated by plot.py at 2018-04-24 16:34:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.38 Mbit/s
95th percentile per-packet one-way delay: 18.695 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 119.38 Mbit/s
95th percentile per-packet one-way delay: 18.695 ms
Loss rate: 0.00%
```
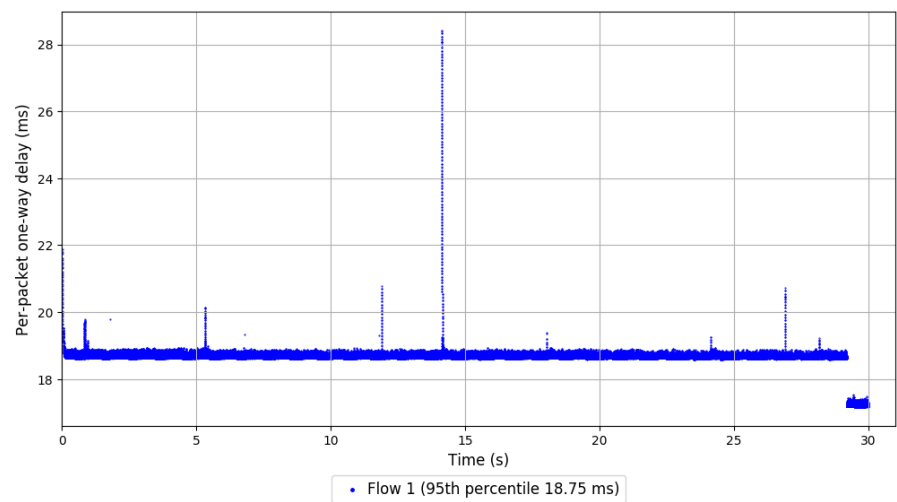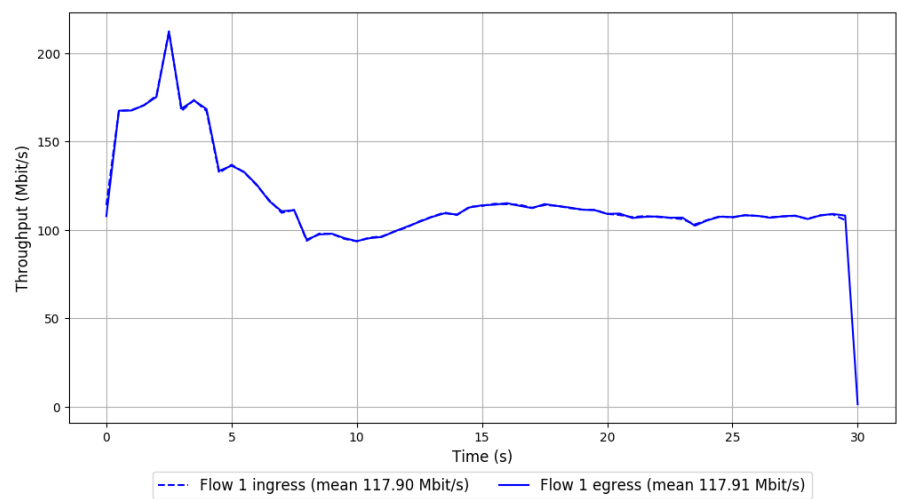
Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 119.38 Mbit/s)   Flow 1 egress (mean 119.38 Mbit/s)

Flow 1 (95th percentile 18.70 ms)

```
Run 7: Statistics of Copa

Start at: 2018-04-24 12:09:53
End at: 2018-04-24 12:10:24
Local clock offset: -0.149 ms
Remote clock offset: -6.694 ms


# Below is generated by plot.py at 2018-04-24 16:35:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.95 Mbit/s
95th percentile per-packet one-way delay: 18.754 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 119.95 Mbit/s
95th percentile per-packet one-way delay: 18.754 ms
Loss rate: 0.00%
```
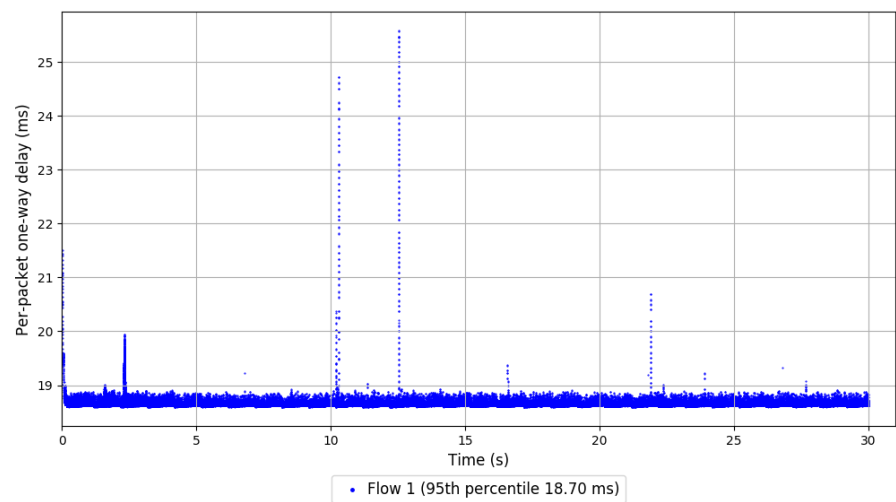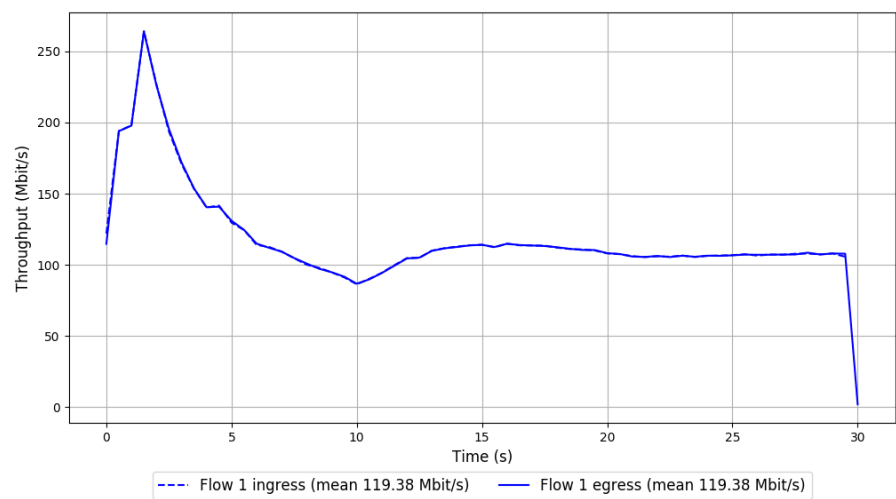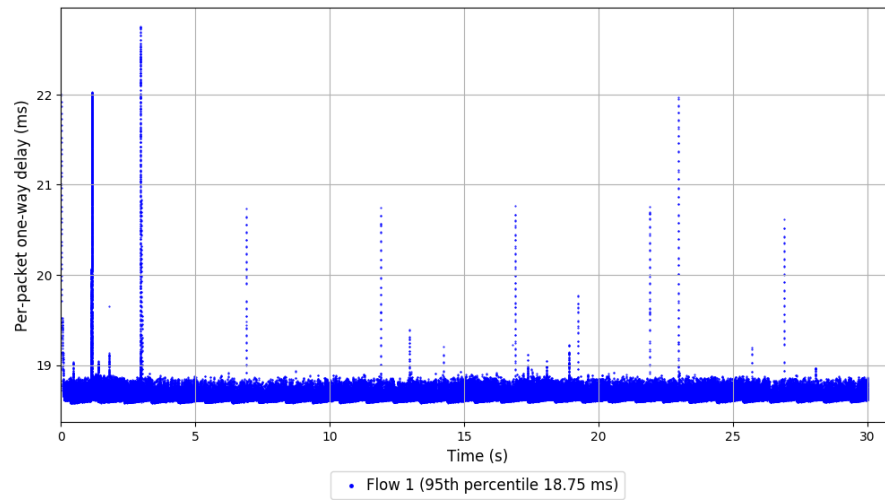
Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 119.94 Mbit/s)   Flow 1 egress (mean 119.95 Mbit/s)

Flow 1 (95th percentile 18.75 ms)

```
Run 8: Statistics of Copa

Start at: 2018-04-24 12:35:23
End at: 2018-04-24 12:35:53
Local clock offset: -0.148 ms
Remote clock offset: -5.543 ms


# Below is generated by plot.py at 2018-04-24 16:35:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 120.93 Mbit/s
95th percentile per-packet one-way delay: 18.720 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 120.93 Mbit/s
95th percentile per-packet one-way delay: 18.720 ms
Loss rate: 0.00%
```

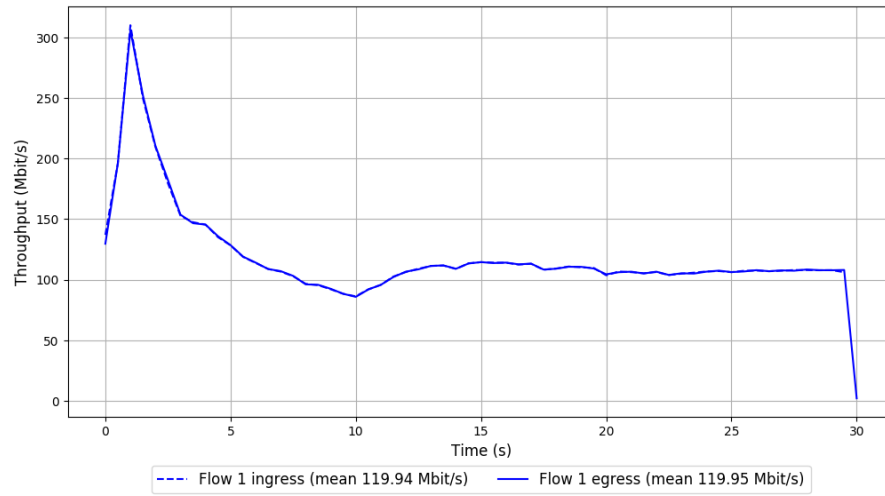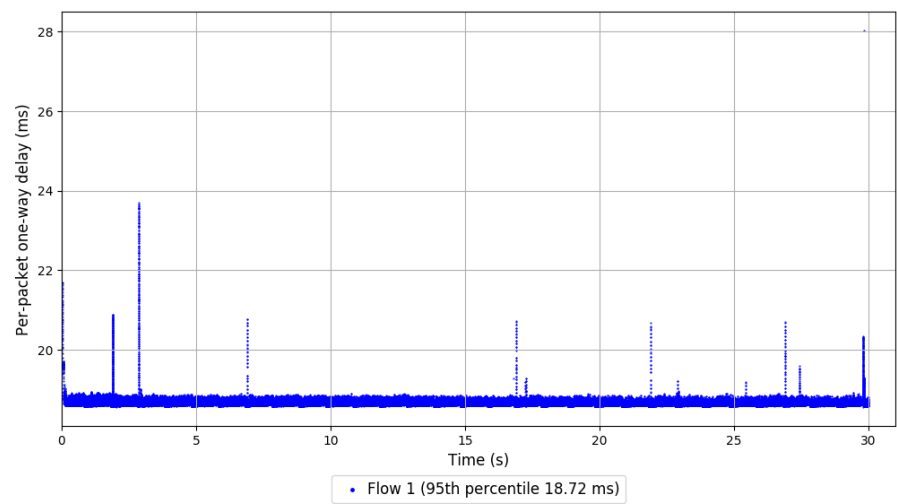Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: 2018-04-24 13:00:38
End at: 2018-04-24 13:01:08
Local clock offset: -0.148 ms
Remote clock offset: -4.989 ms


# Below is generated by plot.py at 2018-04-24 16:35:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 121.99 Mbit/s
95th percentile per-packet one-way delay: 18.778 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 121.99 Mbit/s
95th percentile per-packet one-way delay: 18.778 ms
Loss rate: 0.00%
```
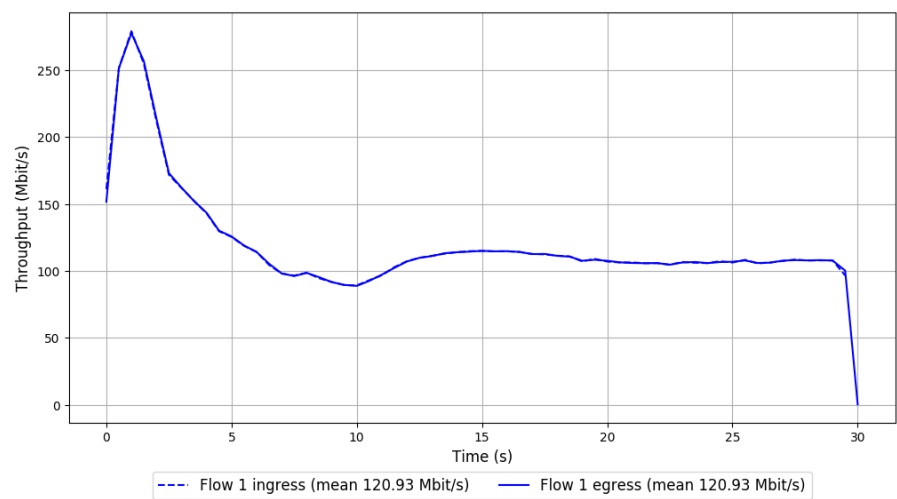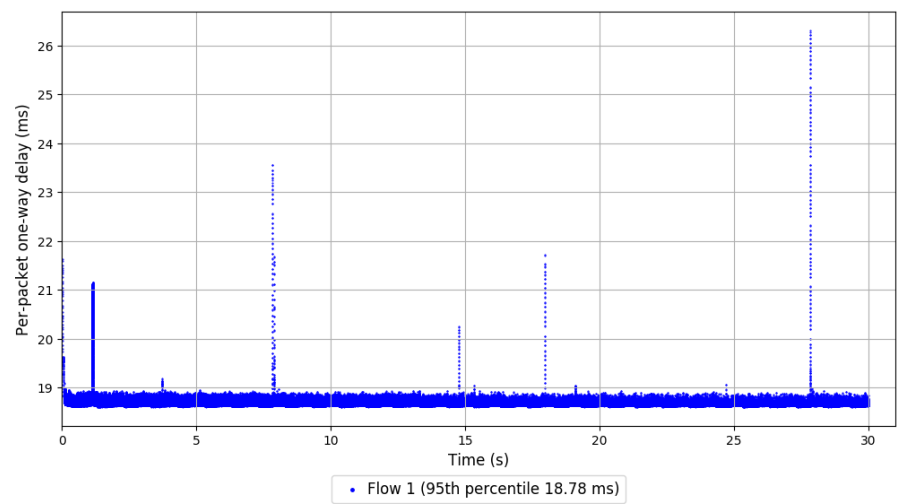
Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 121.99 Mbit/s)   Flow 1 egress (mean 121.99 Mbit/s)

Flow 1 (95th percentile 18.78 ms)

```
Run 10: Statistics of Copa

Start at: 2018-04-24 13:26:13
End at: 2018-04-24 13:26:43
Local clock offset: 0.025 ms
Remote clock offset: -5.099 ms


# Below is generated by plot.py at 2018-04-24 16:36:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.43 Mbit/s
95th percentile per-packet one-way delay: 18.822 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 119.43 Mbit/s
95th percentile per-packet one-way delay: 18.822 ms
Loss rate: 0.00%
```
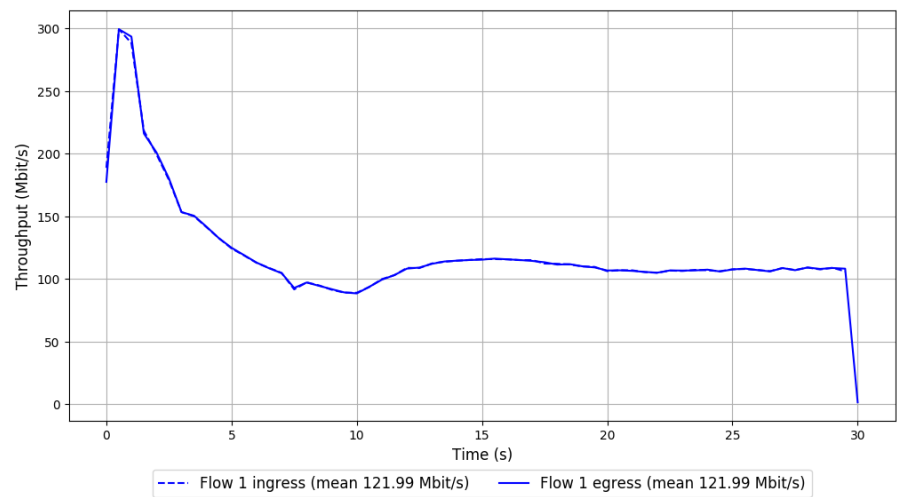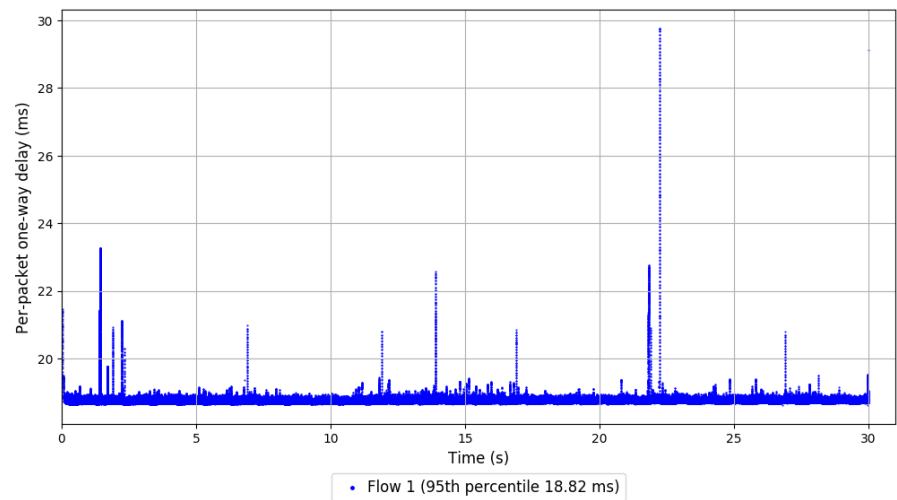
Run 10: Report of Copa — Data Link

```
Run 1: Statistics of FillP

Start at: 2018-04-24 09:27:20
End at: 2018-04-24 09:27:50
Local clock offset: -0.363 ms
Remote clock offset: -5.191 ms


# Below is generated by plot.py at 2018-04-24 16:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 841.10 Mbit/s
95th percentile per-packet one-way delay: 98.757 ms
Loss rate: 8.98%
-- Flow 1:
Average throughput: 841.10 Mbit/s
95th percentile per-packet one-way delay: 98.757 ms
Loss rate: 8.98%
```
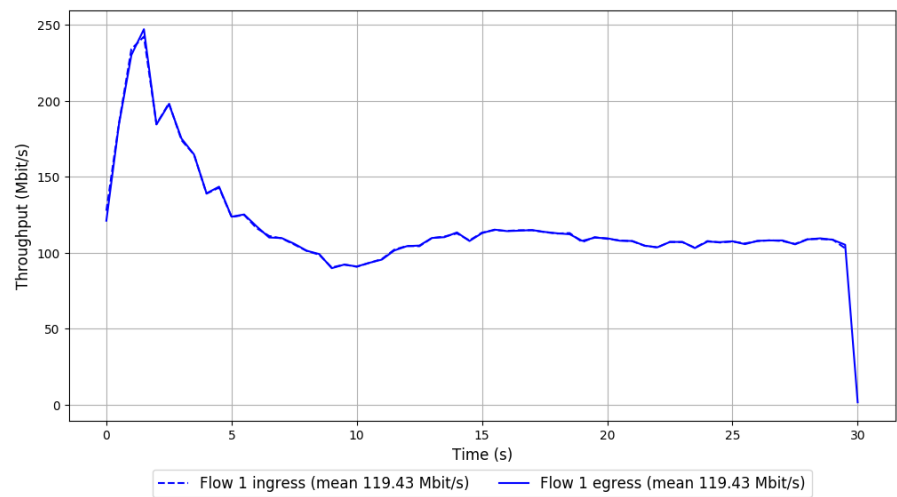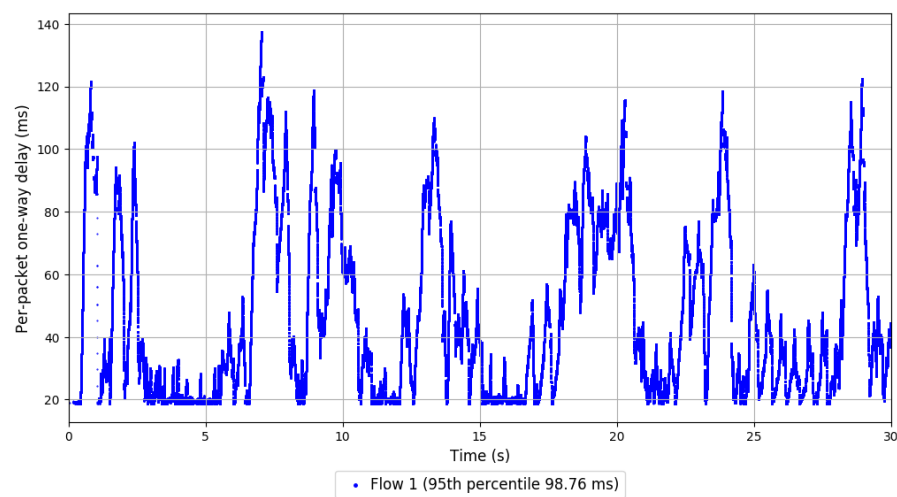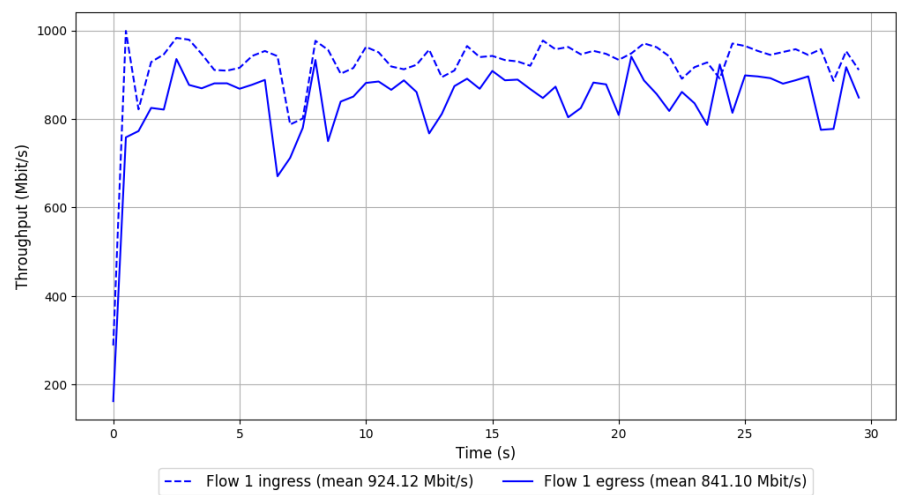
Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2018-04-24 09:52:37
End at: 2018-04-24 09:53:07
Local clock offset: -0.338 ms
Remote clock offset: -5.223 ms


# Below is generated by plot.py at 2018-04-24 16:47:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.80 Mbit/s
95th percentile per-packet one-way delay: 94.718 ms
Loss rate: 9.73%
-- Flow 1:
Average throughput: 360.80 Mbit/s
95th percentile per-packet one-way delay: 94.718 ms
Loss rate: 9.73%
```

Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 399.68 Mbit/s) ----   Flow 1 egress (mean 360.80 Mbit/s) ——
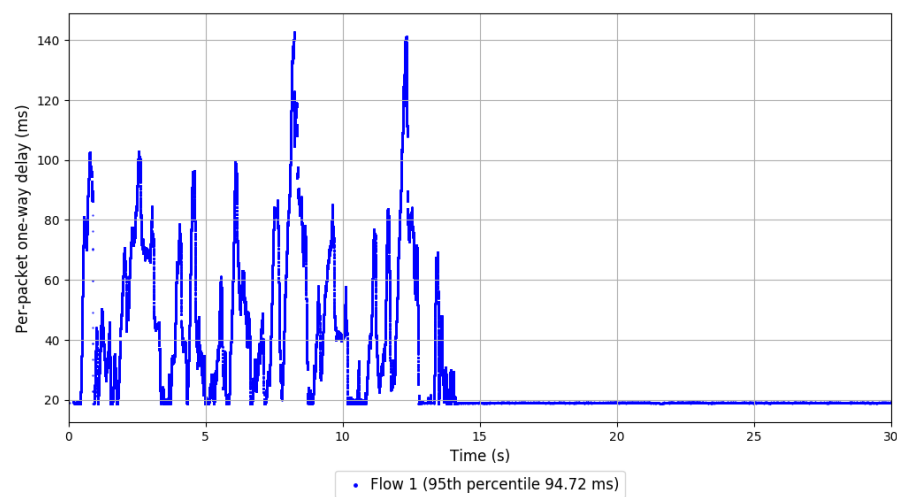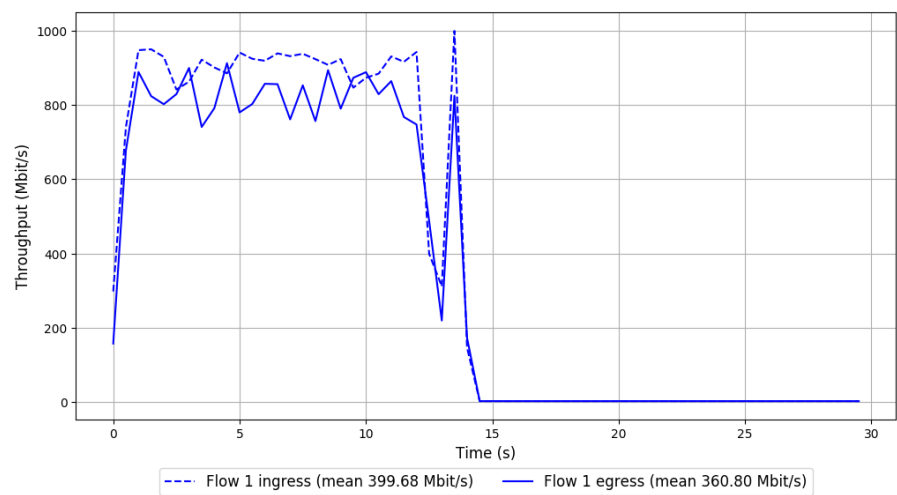

Flow 1 (95th percentile 94.72 ms)

```
Run 3: Statistics of FillP

Start at: 2018-04-24 10:17:45
End at: 2018-04-24 10:18:15
Local clock offset: -0.388 ms
Remote clock offset: -5.136 ms


# Below is generated by plot.py at 2018-04-24 16:47:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 826.92 Mbit/s
95th percentile per-packet one-way delay: 108.408 ms
Loss rate: 9.93%
-- Flow 1:
Average throughput: 826.92 Mbit/s
95th percentile per-packet one-way delay: 108.408 ms
Loss rate: 9.93%
```
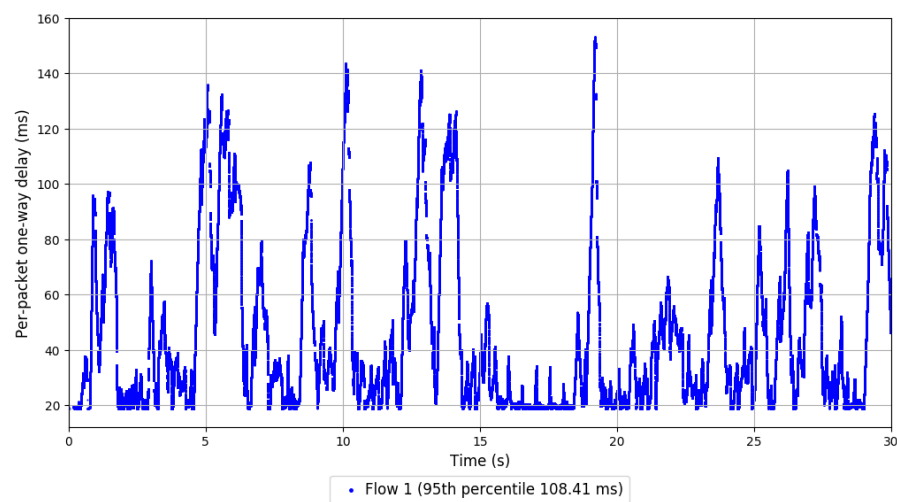
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 918.13 Mbit/s) --- Flow 1 egress (mean 826.92 Mbit/s)

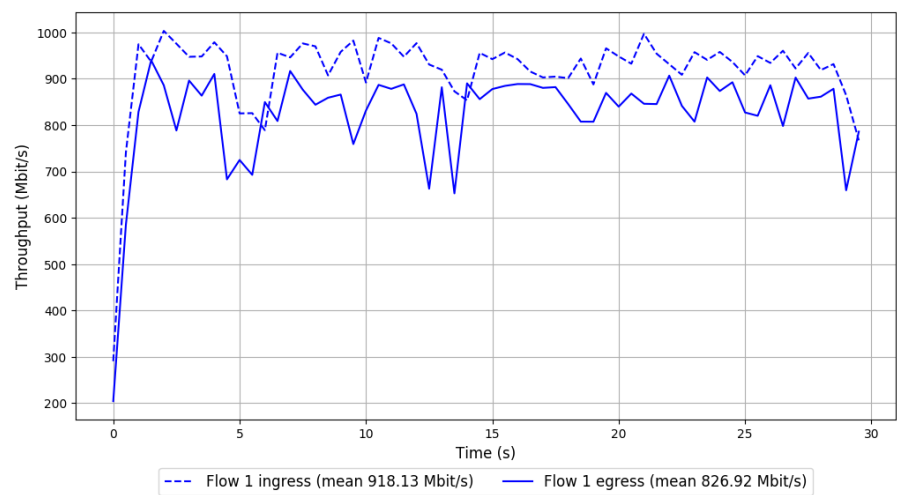
• Flow 1 (95th percentile 108.41 ms)

```
Run 4: Statistics of FillP

Start at: 2018-04-24 10:43:09
End at: 2018-04-24 10:43:39
Local clock offset: -0.474 ms
Remote clock offset: -5.544 ms


# Below is generated by plot.py at 2018-04-24 16:47:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.52 Mbit/s
95th percentile per-packet one-way delay: 70.404 ms
Loss rate: 12.07%
-- Flow 1:
Average throughput: 47.52 Mbit/s
95th percentile per-packet one-way delay: 70.404 ms
Loss rate: 12.07%
```
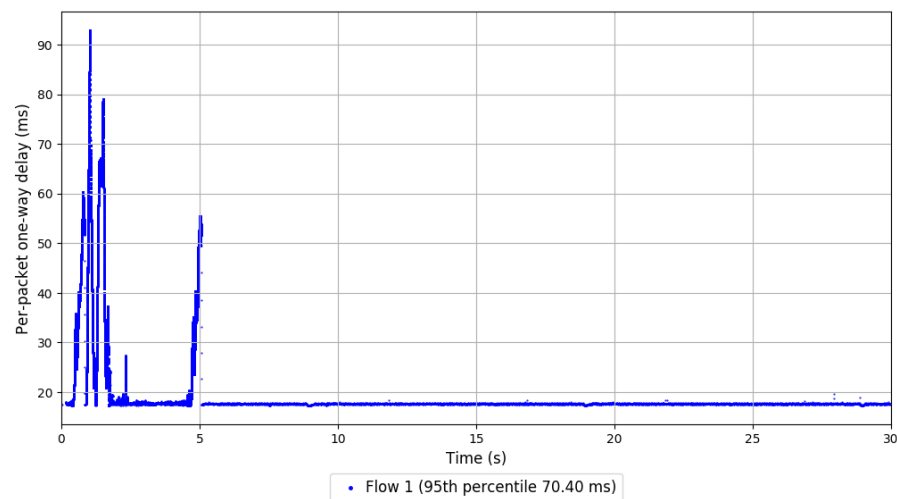
Run 4: Report of FillP — Data Link

```
Run 5: Statistics of FillP

Start at: 2018-04-24 11:08:05
End at: 2018-04-24 11:08:35
Local clock offset: -0.019 ms
Remote clock offset: -5.863 ms


# Below is generated by plot.py at 2018-04-24 16:47:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 115.246 ms
Loss rate: 14.76%
-- Flow 1:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 115.246 ms
Loss rate: 14.76%
```
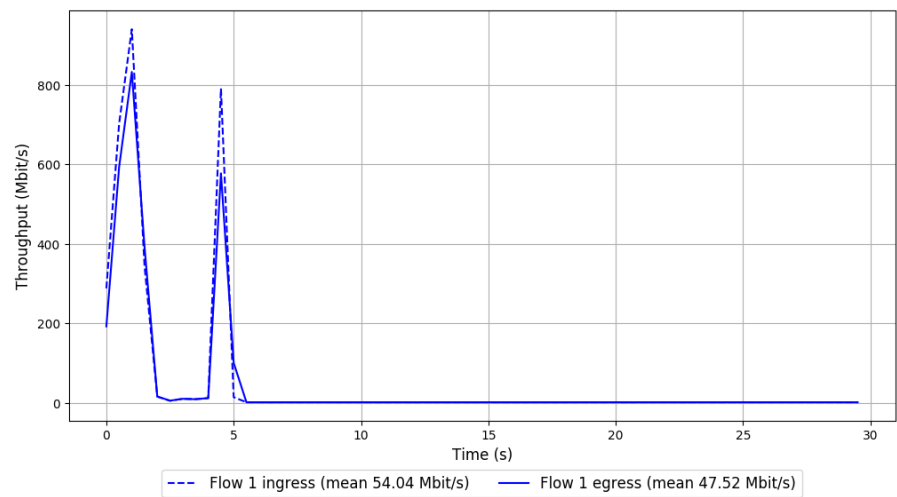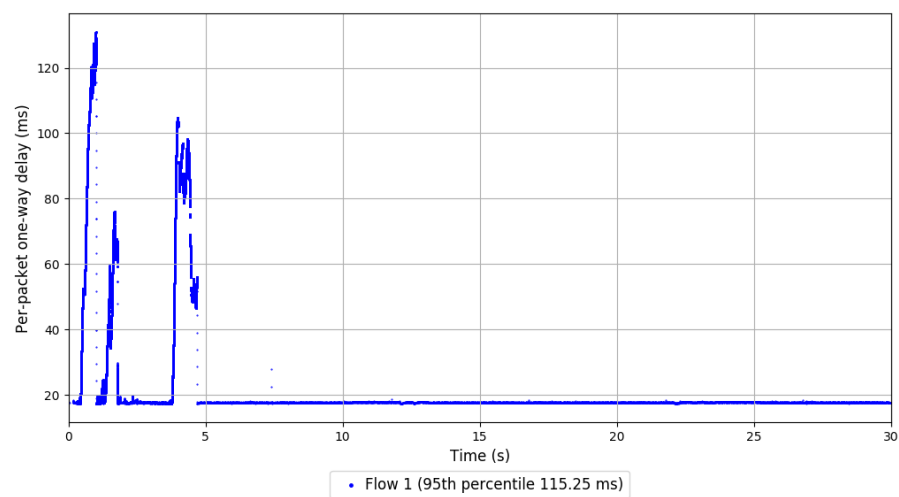
Run 5: Report of FillP — Data Link

```
Run 6: Statistics of FillP

Start at: 2018-04-24 11:33:04
End at: 2018-04-24 11:33:34
Local clock offset: -0.223 ms
Remote clock offset: -6.369 ms


# Below is generated by plot.py at 2018-04-24 16:47:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 131.372 ms
Loss rate: 18.64%
-- Flow 1:
Average throughput: 59.87 Mbit/s
95th percentile per-packet one-way delay: 131.372 ms
Loss rate: 18.64%
```
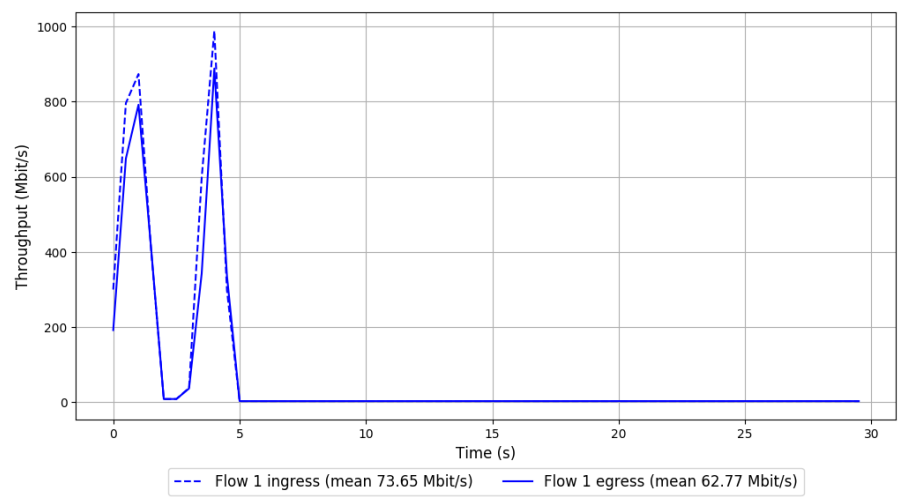
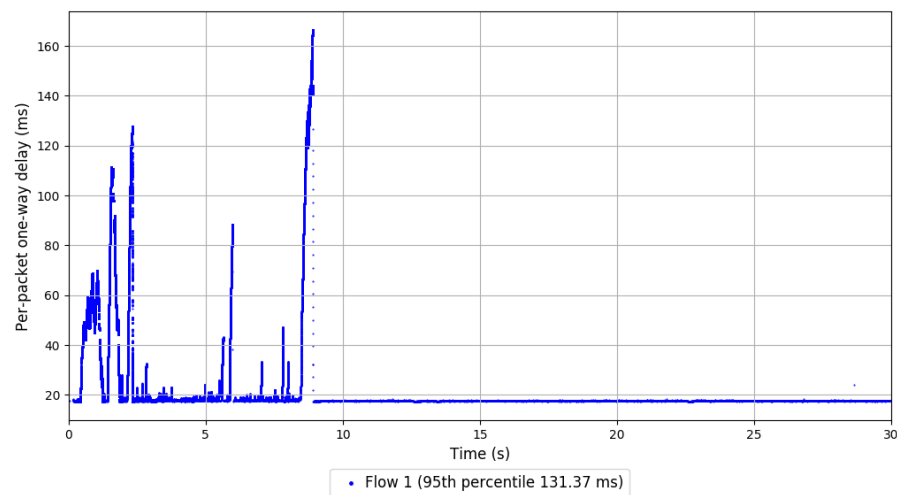## Run 6: Report of FillP — Data Link

```
Run 7: Statistics of FillP

Start at: 2018-04-24 11:58:15
End at: 2018-04-24 11:58:45
Local clock offset: -0.238 ms
Remote clock offset: -6.546 ms


# Below is generated by plot.py at 2018-04-24 16:49:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 827.22 Mbit/s
95th percentile per-packet one-way delay: 104.269 ms
Loss rate: 9.54%
-- Flow 1:
Average throughput: 827.22 Mbit/s
95th percentile per-packet one-way delay: 104.269 ms
Loss rate: 9.54%
```

Run 7: Report of FillP — Data Link

Flow 1 ingress (mean 914.46 Mbit/s) --- Flow 1 egress (mean 827.22 Mbit/s)

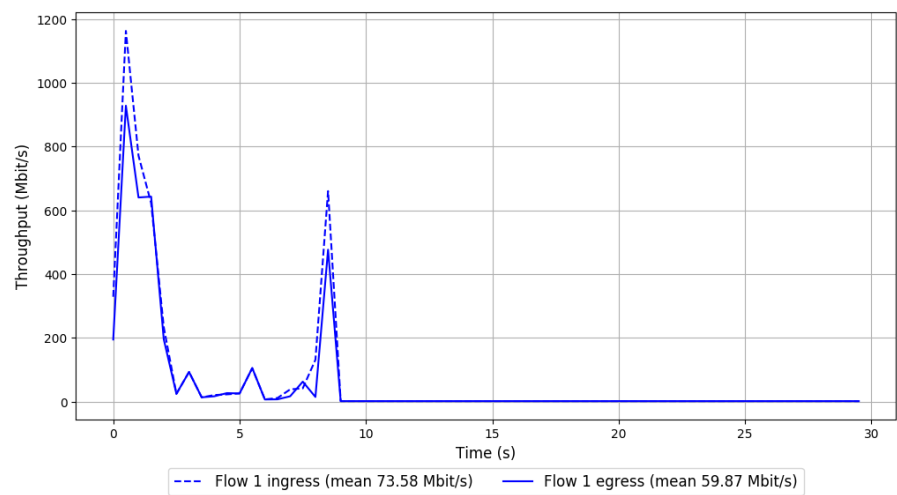
• Flow 1 (95th percentile 104.27 ms)

```
Run 8: Statistics of FillP

Start at: 2018-04-24 12:23:43
End at: 2018-04-24 12:24:13
Local clock offset: -0.082 ms
Remote clock offset: -5.829 ms


# Below is generated by plot.py at 2018-04-24 16:49:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 827.46 Mbit/s
95th percentile per-packet one-way delay: 101.264 ms
Loss rate: 10.00%
-- Flow 1:
Average throughput: 827.46 Mbit/s
95th percentile per-packet one-way delay: 101.264 ms
Loss rate: 10.00%
```
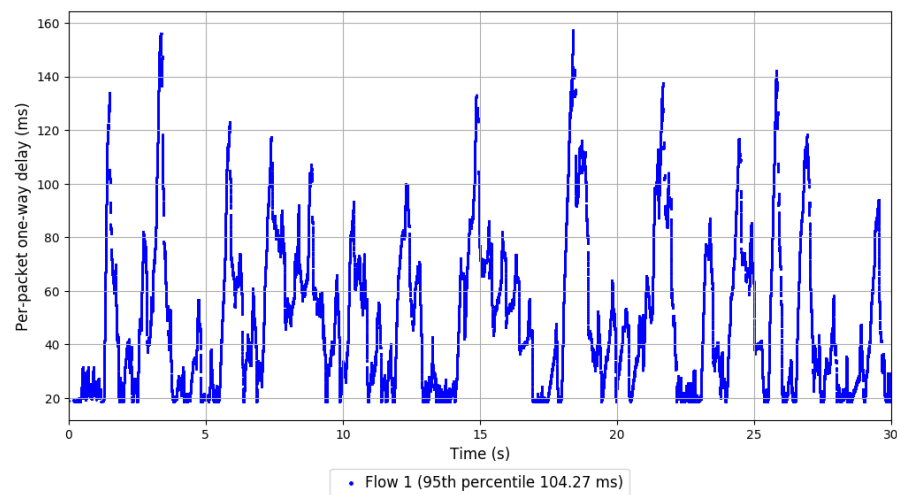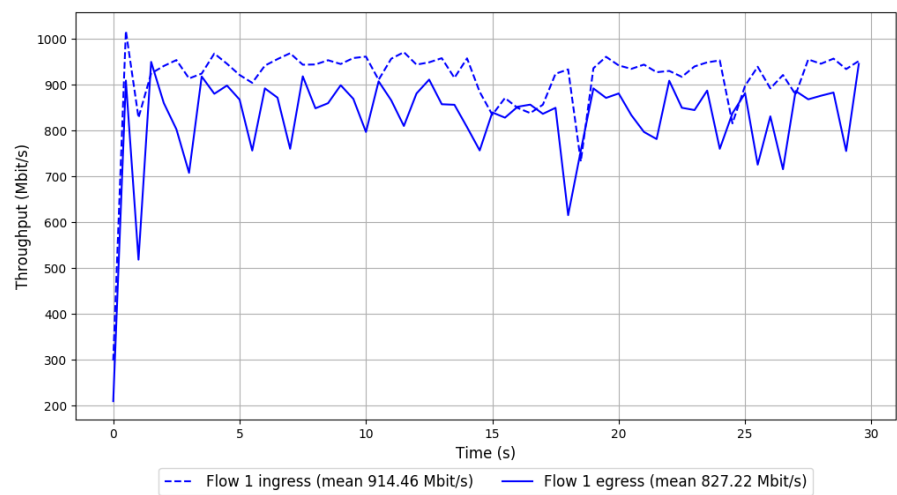
Run 8: Report of FillP — Data Link

Flow 1 ingress (mean 919.41 Mbit/s)   Flow 1 egress (mean 827.46 Mbit/s)

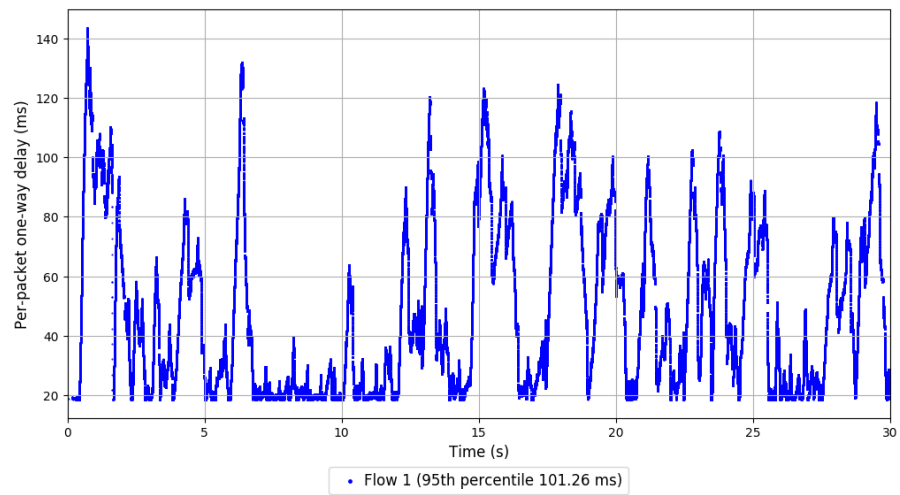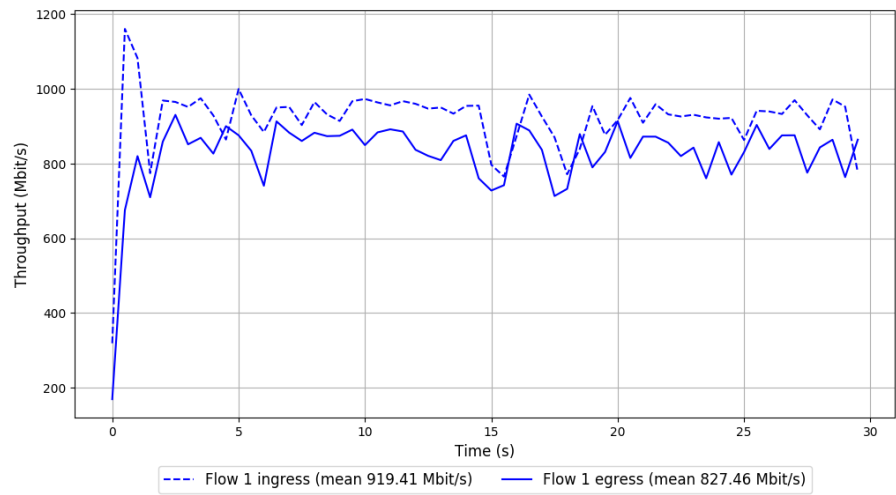Flow 1 (95th percentile 101.26 ms)

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```
Run 9: Statistics of FillP

Start at: 2018-04-24 12:49:19
End at: 2018-04-24 12:49:49
Local clock offset: -0.243 ms
Remote clock offset: -5.344 ms

# Below is generated by plot.py at 2018-04-24 16:49:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 119.23 Mbit/s
95th percentile per-packet one-way delay: 102.766 ms
Loss rate: 8.10%
-- Flow 1:
Average throughput: 119.23 Mbit/s
95th percentile per-packet one-way delay: 102.766 ms
Loss rate: 8.10%
```
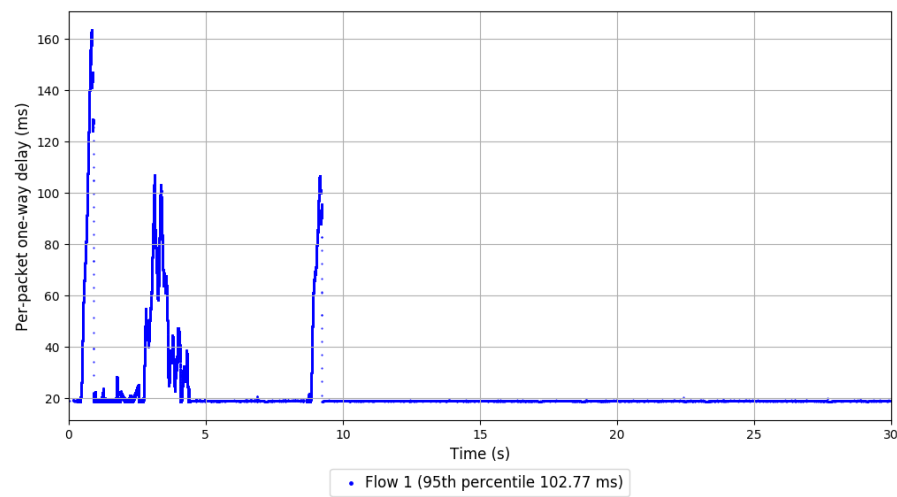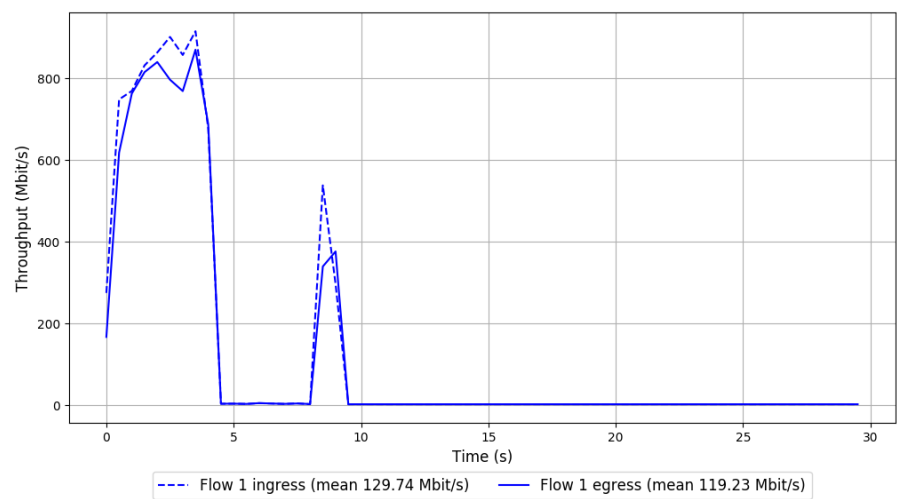
Run 9: Report of FillP — Data Link

```
Run 10: Statistics of FillP

Start at: 2018-04-24 13:14:31
End at: 2018-04-24 13:15:01
Local clock offset: -0.029 ms
Remote clock offset: -4.849 ms


# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 836.75 Mbit/s
95th percentile per-packet one-way delay: 93.787 ms
Loss rate: 9.03%
-- Flow 1:
Average throughput: 836.75 Mbit/s
95th percentile per-packet one-way delay: 93.787 ms
Loss rate: 9.03%
```

Run 10: Report of FillP — Data Link

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

Start at: 2018-04-24 09:22:37
End at: 2018-04-24 09:23:07
Local clock offset: -0.298 ms
Remote clock offset: -5.021 ms


# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.38 Mbit/s
95th percentile per-packet one-way delay: 18.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.38 Mbit/s
95th percentile per-packet one-way delay: 18.869 ms
Loss rate: 0.00%
```
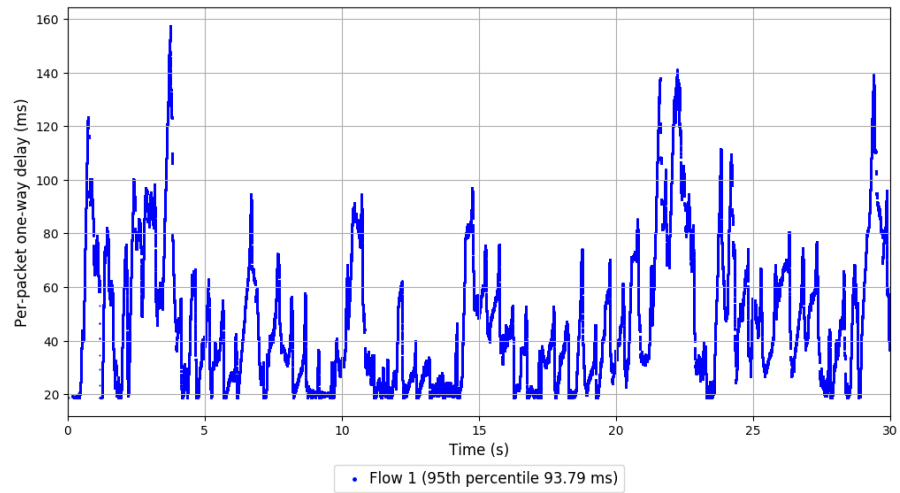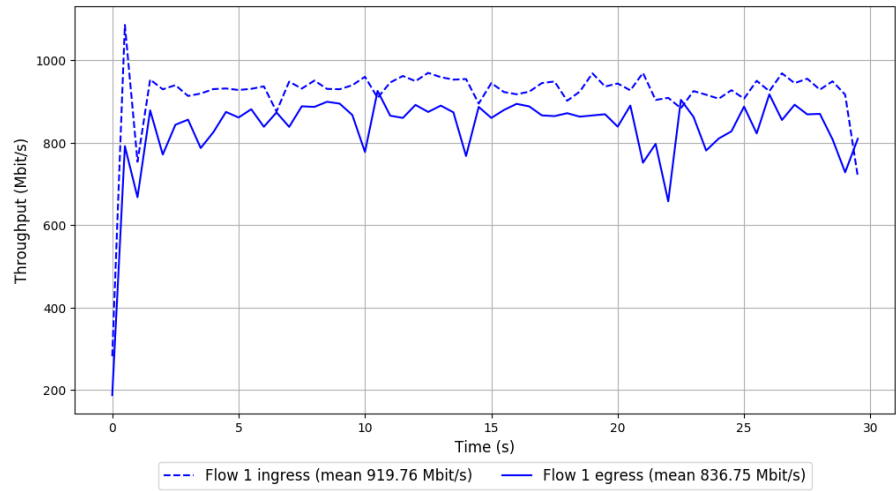
Run 1: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-24 09:48:02
End at: 2018-04-24 09:48:32
Local clock offset: -0.335 ms
Remote clock offset: -5.297 ms

# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.83 Mbit/s
95th percentile per-packet one-way delay: 18.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.83 Mbit/s
95th percentile per-packet one-way delay: 18.894 ms
Loss rate: 0.00%
```
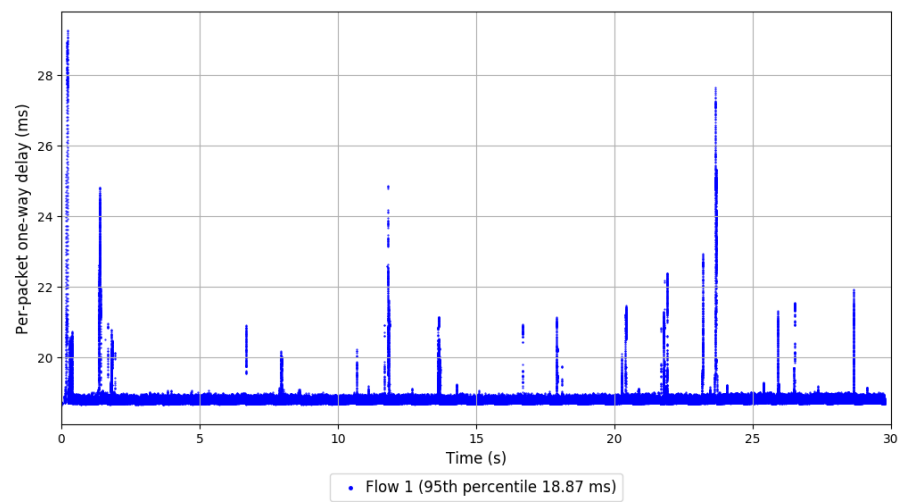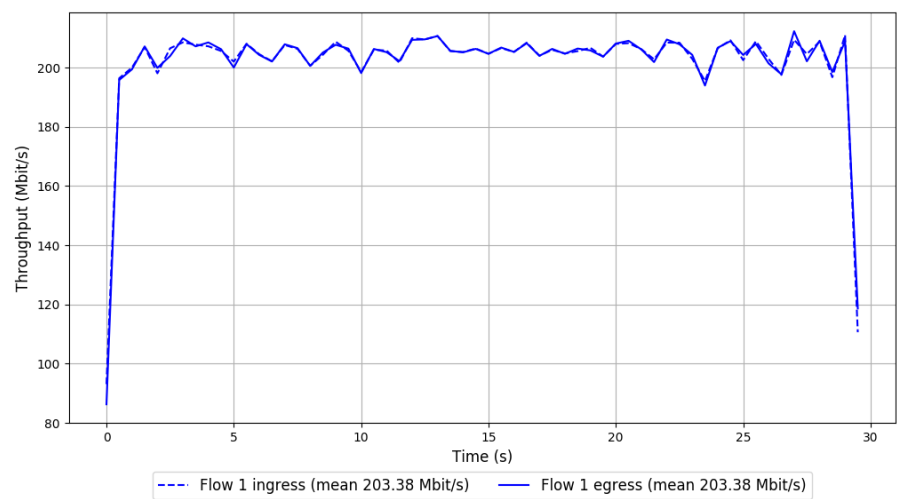
Run 2: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-24 10:13:08
End at: 2018-04-24 10:13:38
Local clock offset: -0.367 ms
Remote clock offset: -5.207 ms


# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.62 Mbit/s
95th percentile per-packet one-way delay: 18.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.62 Mbit/s
95th percentile per-packet one-way delay: 18.827 ms
Loss rate: 0.00%
```
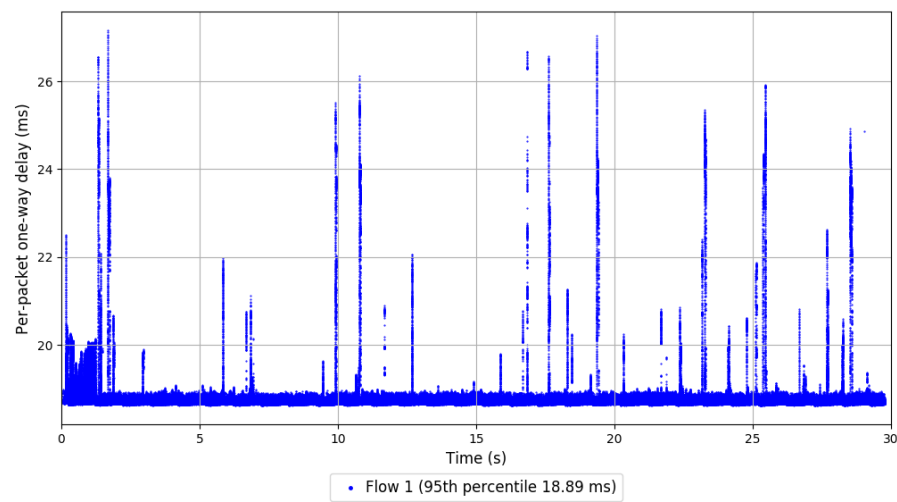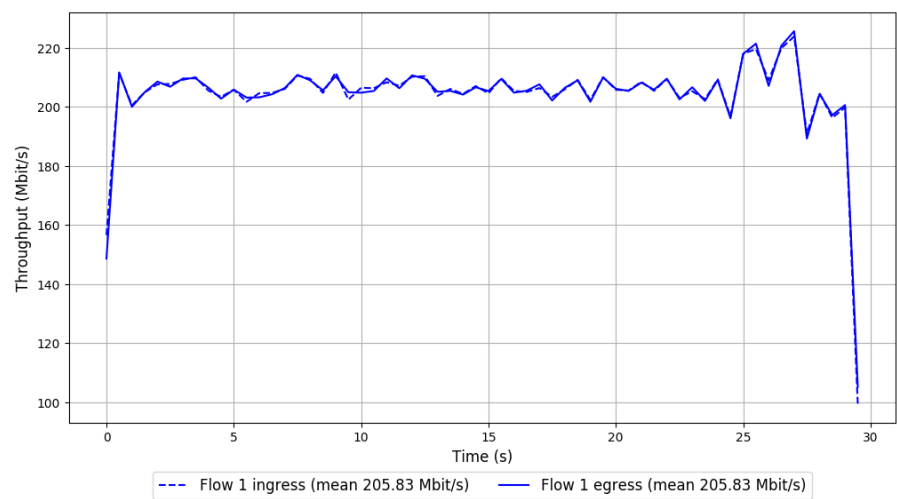
Run 3: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-24 10:38:33
End at: 2018-04-24 10:39:03
Local clock offset: -0.366 ms
Remote clock offset: -5.448 ms

# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.95 Mbit/s
95th percentile per-packet one-way delay: 18.821 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.95 Mbit/s
95th percentile per-packet one-way delay: 18.821 ms
Loss rate: 0.00%
```
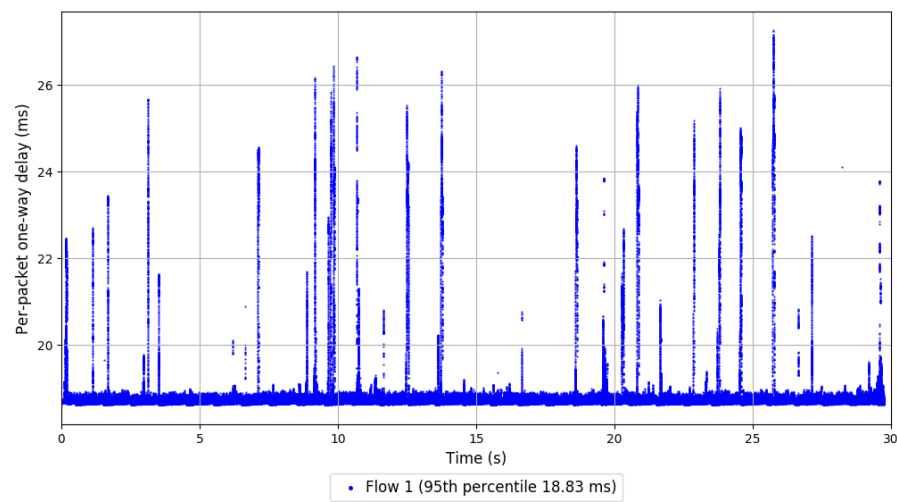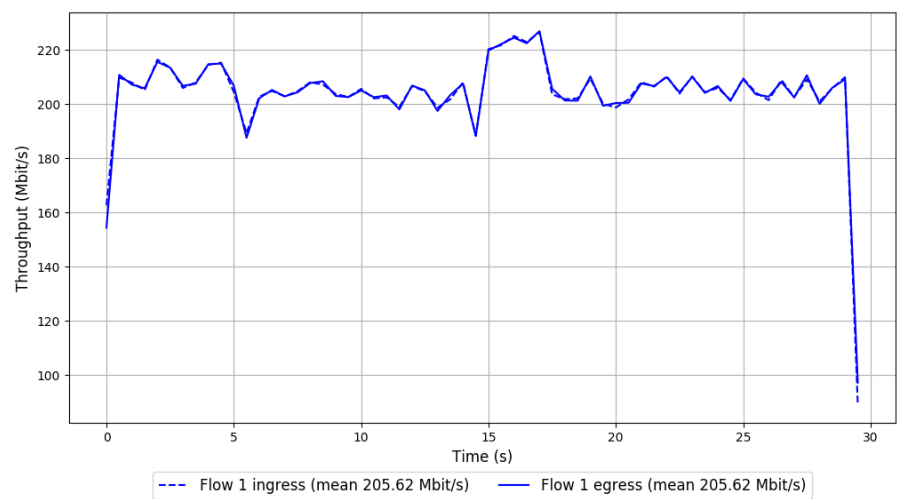
Run 4: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-24 11:03:27
End at: 2018-04-24 11:03:57
Local clock offset: 0.008 ms
Remote clock offset: -5.758 ms


# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.60 Mbit/s
95th percentile per-packet one-way delay: 18.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.60 Mbit/s
95th percentile per-packet one-way delay: 18.812 ms
Loss rate: 0.00%
```

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

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

Start at: 2018-04-24 11:28:27
End at: 2018-04-24 11:28:57
Local clock offset: -0.167 ms
Remote clock offset: -6.336 ms


# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.21 Mbit/s
95th percentile per-packet one-way delay: 18.792 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.21 Mbit/s
95th percentile per-packet one-way delay: 18.792 ms
Loss rate: 0.00%
```
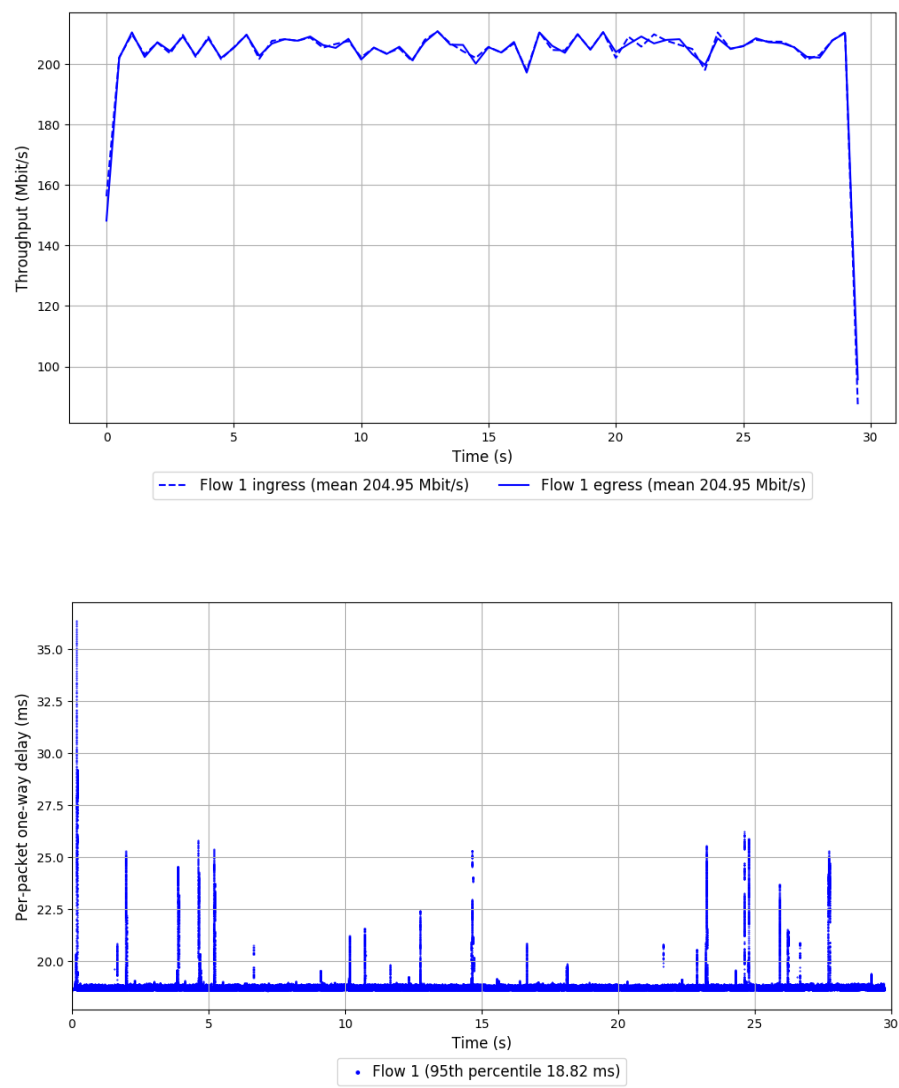
Run 6: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 204.21 Mbit/s)   Flow 1 egress (mean 204.21 Mbit/s)

Flow 1 (95th percentile 18.79 ms)

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

Start at: 2018-04-24 11:53:33
End at: 2018-04-24 11:54:03
Local clock offset: -0.303 ms
Remote clock offset: -6.551 ms


# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.54 Mbit/s
95th percentile per-packet one-way delay: 18.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.54 Mbit/s
95th percentile per-packet one-way delay: 18.713 ms
Loss rate: 0.00%
```
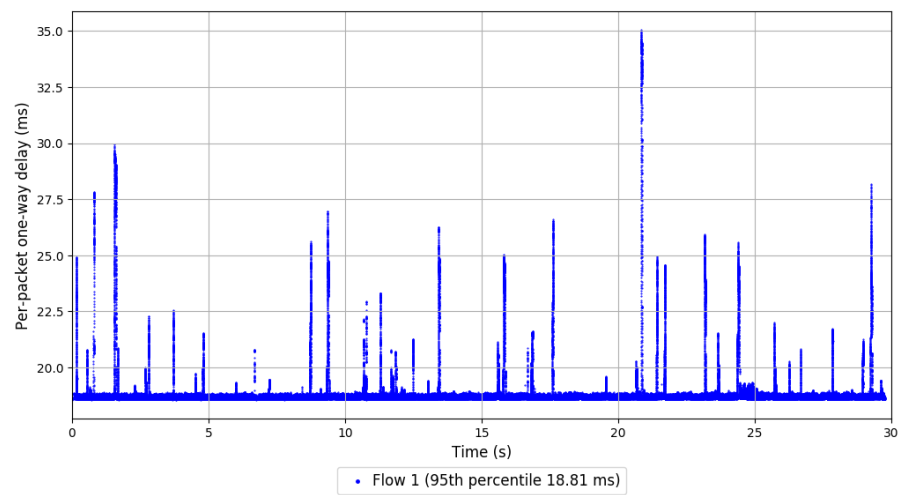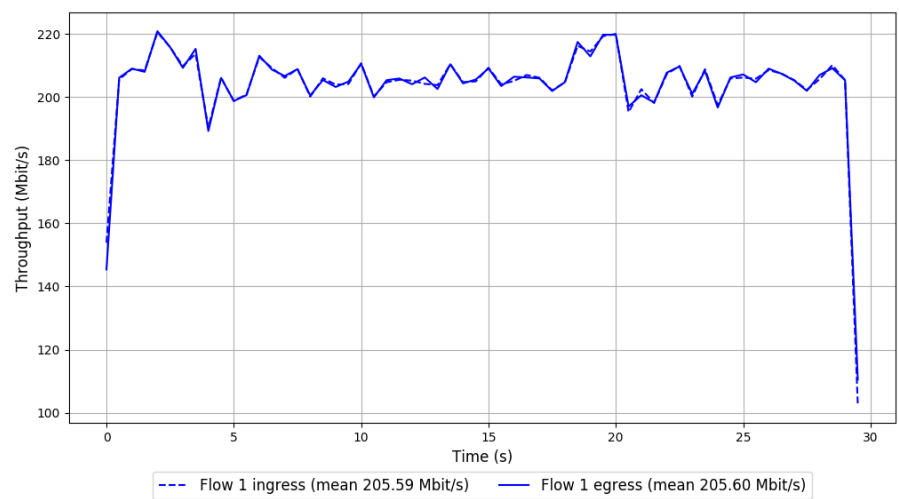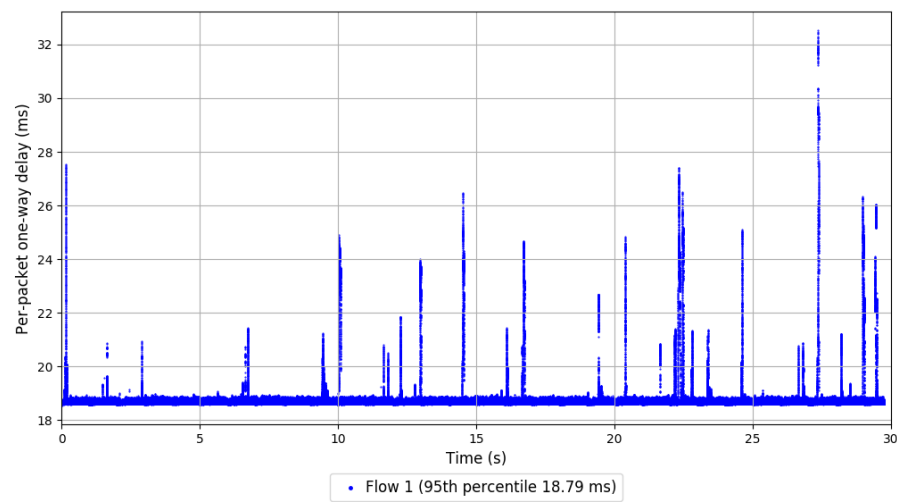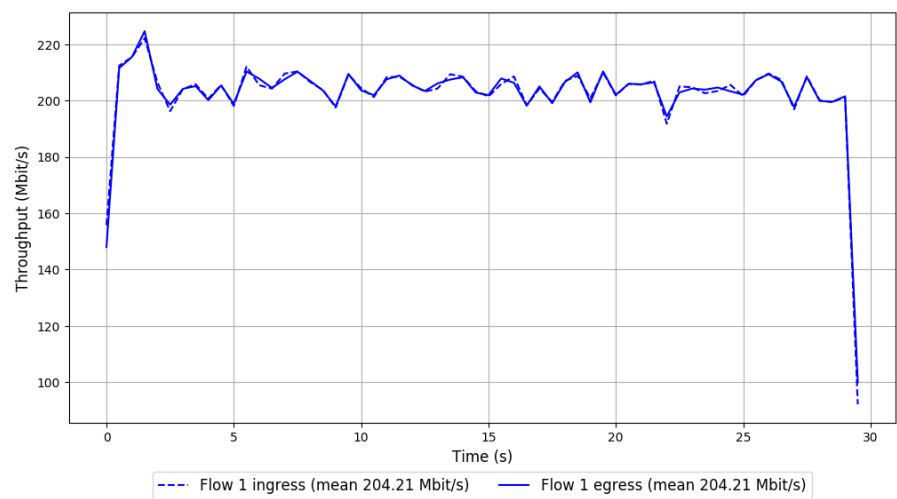
Run 7: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 205.54 Mbit/s)   Flow 1 egress (mean 205.54 Mbit/s)

Flow 1 (95th percentile 18.71 ms)

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

Start at: 2018-04-24 12:19:00
End at: 2018-04-24 12:19:30
Local clock offset: -0.206 ms
Remote clock offset: -6.118 ms


# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.55 Mbit/s
95th percentile per-packet one-way delay: 18.772 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.55 Mbit/s
95th percentile per-packet one-way delay: 18.772 ms
Loss rate: 0.00%
```
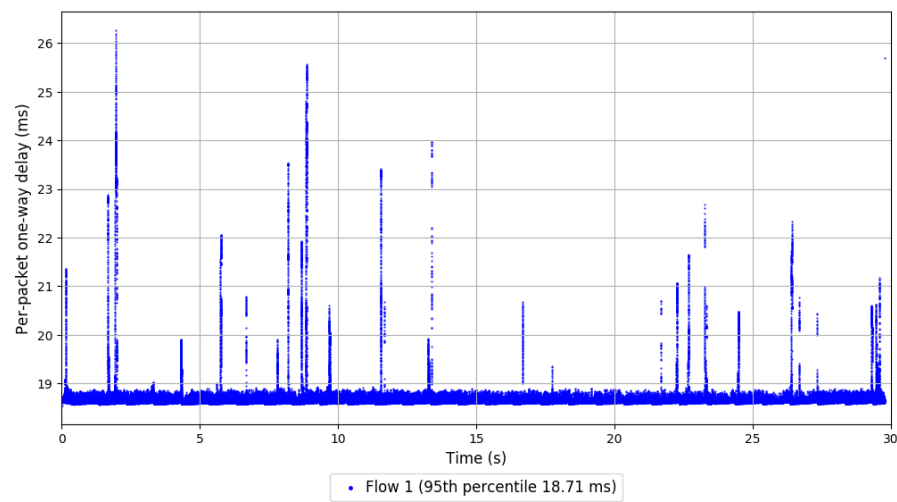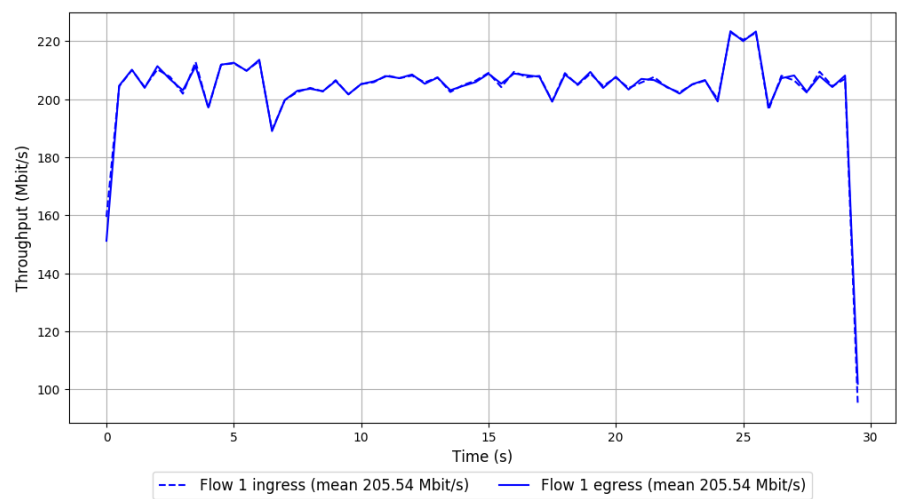
Run 8: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-24 12:44:34
End at: 2018-04-24 12:45:04
Local clock offset: -0.15 ms
Remote clock offset: -5.415 ms

# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.09 Mbit/s
95th percentile per-packet one-way delay: 18.918 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 200.09 Mbit/s
95th percentile per-packet one-way delay: 18.918 ms
Loss rate: 0.01%
```
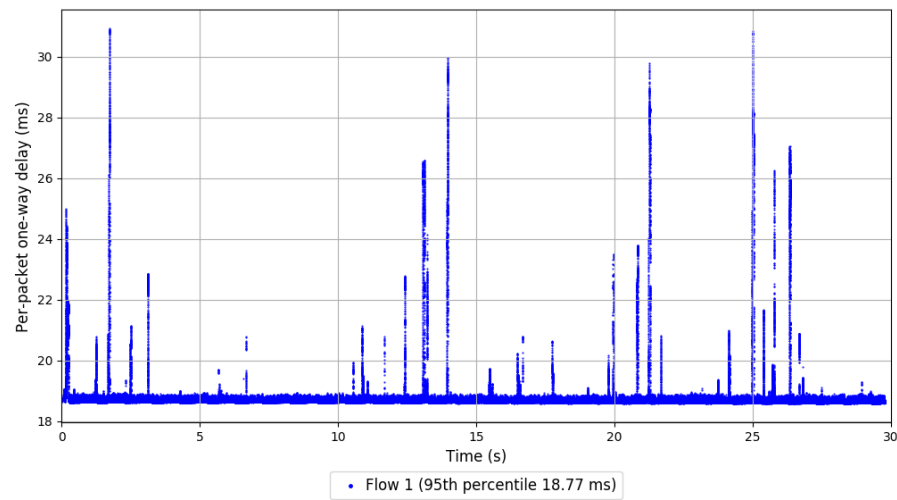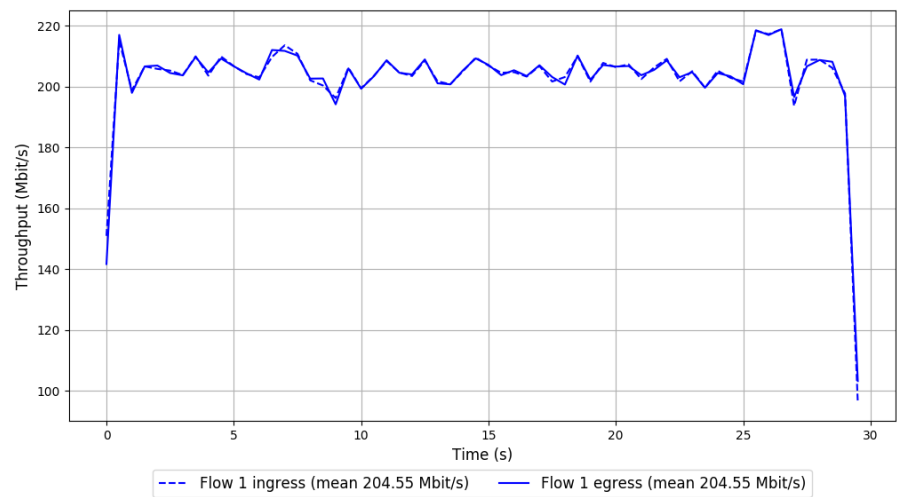
Run 9: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-24 13:09:49
End at: 2018-04-24 13:10:19
Local clock offset: -0.0 ms
Remote clock offset: -4.896 ms

# Below is generated by plot.py at 2018-04-24 16:50:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.63 Mbit/s
95th percentile per-packet one-way delay: 18.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.63 Mbit/s
95th percentile per-packet one-way delay: 18.881 ms
Loss rate: 0.00%
```

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

```
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 09:20:59
End at: 2018-04-24 09:21:29
Local clock offset: -0.317 ms
Remote clock offset: -5.079 ms


# Below is generated by plot.py at 2018-04-24 16:53:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.70 Mbit/s
95th percentile per-packet one-way delay: 18.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.70 Mbit/s
95th percentile per-packet one-way delay: 18.914 ms
Loss rate: 0.00%
```
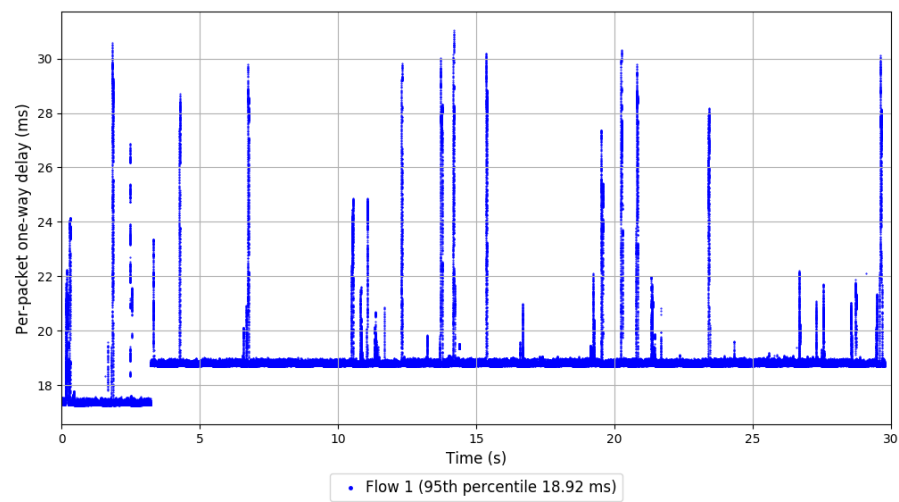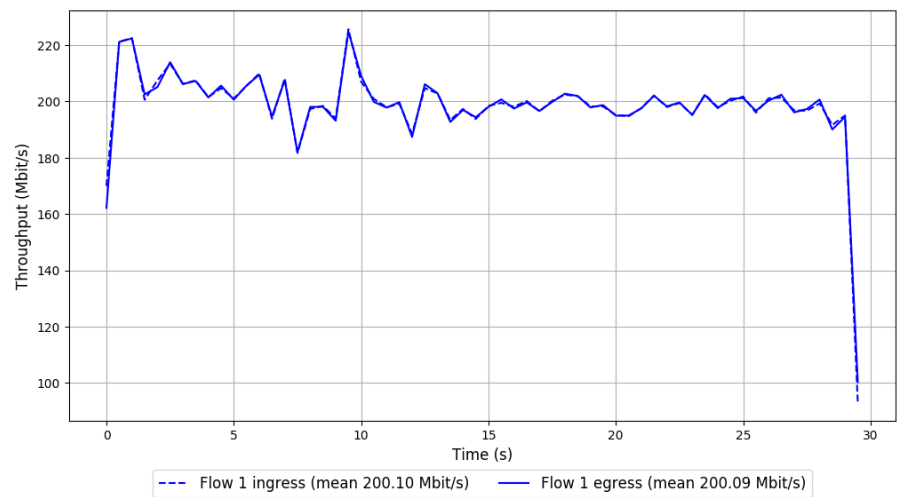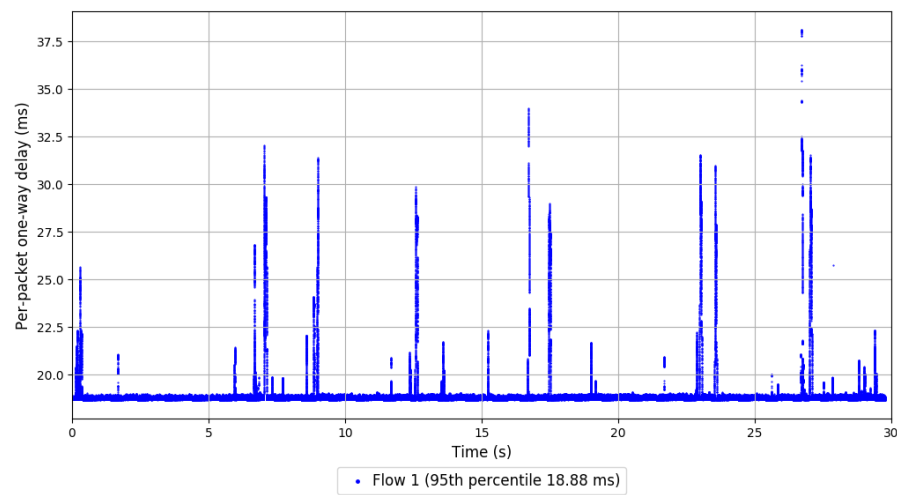
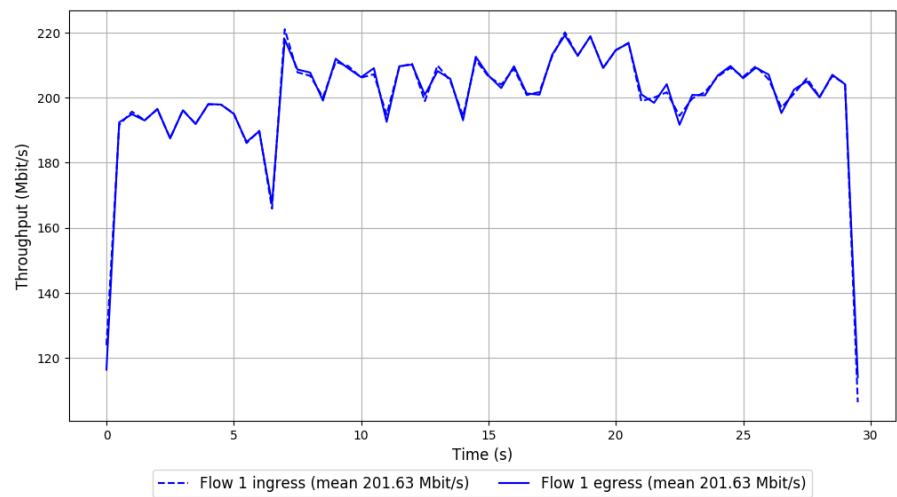# Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 09:46:23
End at: 2018-04-24 09:46:53
Local clock offset: -0.309 ms
Remote clock offset: -5.336 ms


# Below is generated by plot.py at 2018-04-24 16:53:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 405.07 Mbit/s
95th percentile per-packet one-way delay: 24.551 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 405.07 Mbit/s
95th percentile per-packet one-way delay: 24.551 ms
Loss rate: 0.00%
```

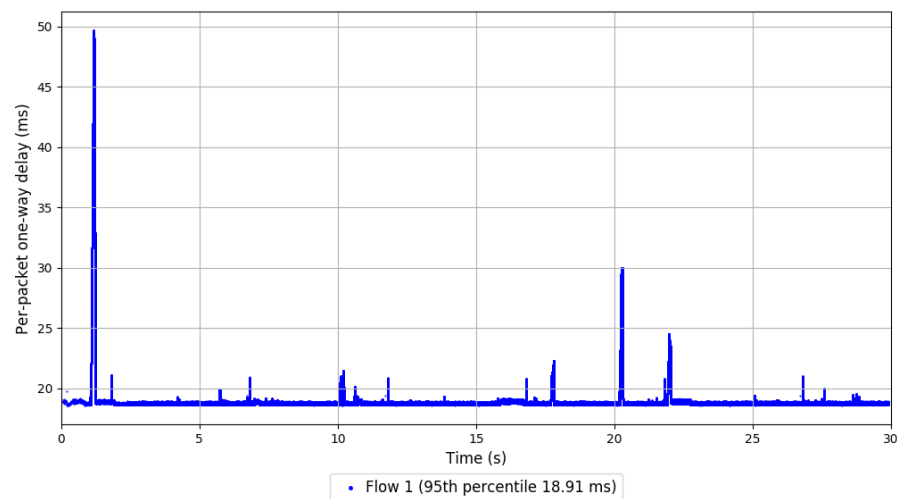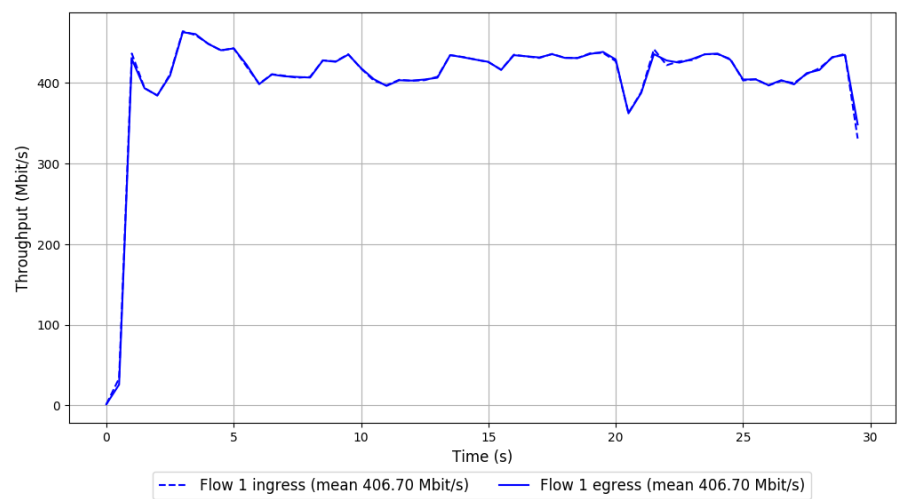## Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 10:11:28
End at: 2018-04-24 10:11:58
Local clock offset: -0.455 ms
Remote clock offset: -5.171 ms


# Below is generated by plot.py at 2018-04-24 16:54:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 449.43 Mbit/s
95th percentile per-packet one-way delay: 24.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 449.43 Mbit/s
95th percentile per-packet one-way delay: 24.463 ms
Loss rate: 0.00%
```

Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 449.42 Mbit/s)   Flow 1 egress (mean 449.43 Mbit/s)
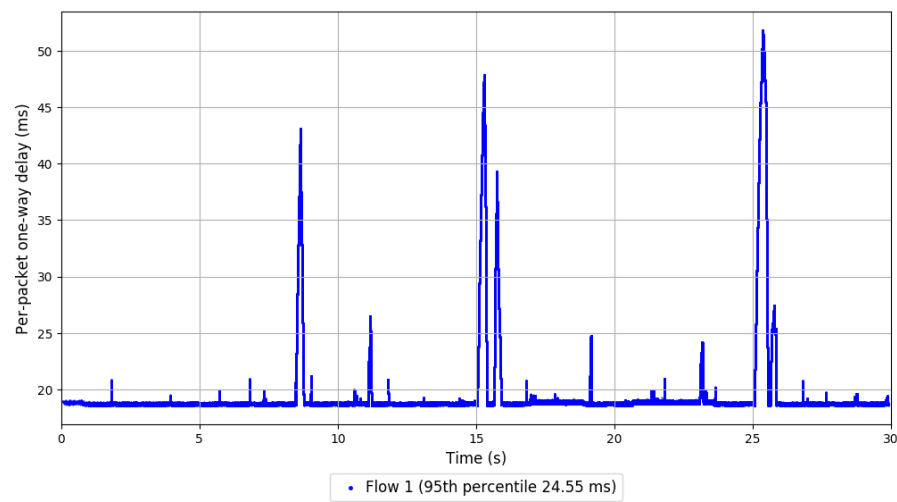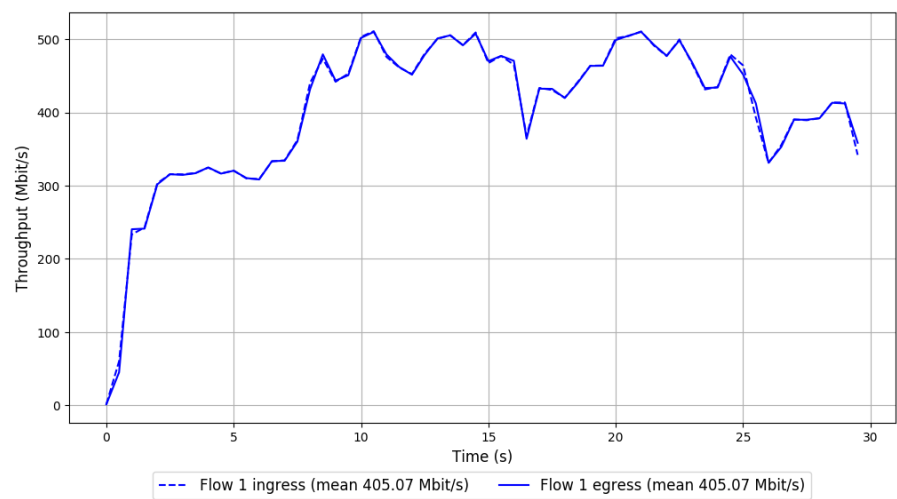

Flow 1 (95th percentile 24.46 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 10:36:52
End at: 2018-04-24 10:37:22
Local clock offset: -0.337 ms
Remote clock offset: -5.434 ms


# Below is generated by plot.py at 2018-04-24 16:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 443.73 Mbit/s
95th percentile per-packet one-way delay: 47.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 443.73 Mbit/s
95th percentile per-packet one-way delay: 47.962 ms
Loss rate: 0.00%
```

Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 443.73 Mbit/s) —— Flow 1 egress (mean 443.73 Mbit/s)
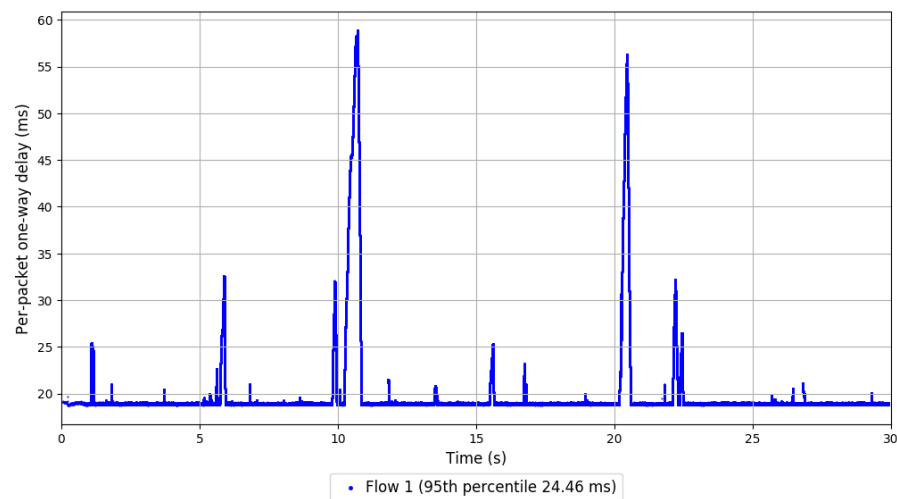

• Flow 1 (95th percentile 47.96 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 11:01:47
End at: 2018-04-24 11:02:17
Local clock offset: -0.004 ms
Remote clock offset: -5.757 ms


# Below is generated by plot.py at 2018-04-24 16:55:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 430.92 Mbit/s
95th percentile per-packet one-way delay: 24.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 430.92 Mbit/s
95th percentile per-packet one-way delay: 24.961 ms
Loss rate: 0.00%
```
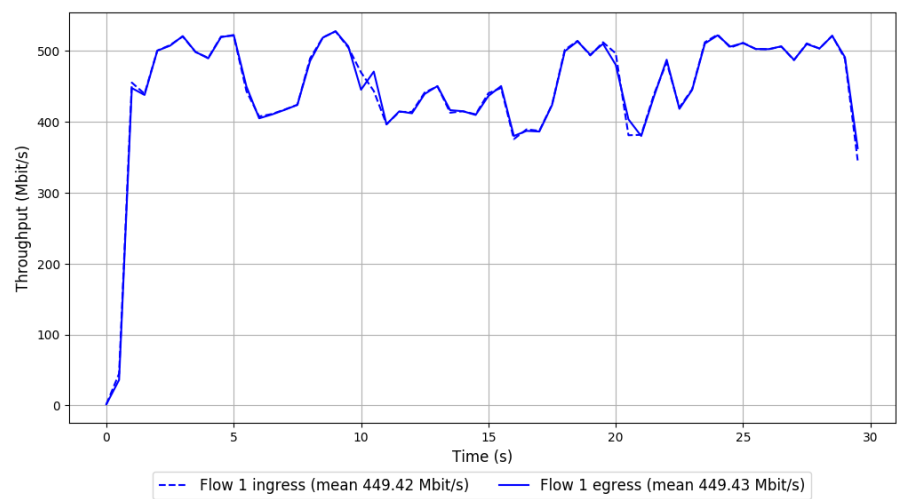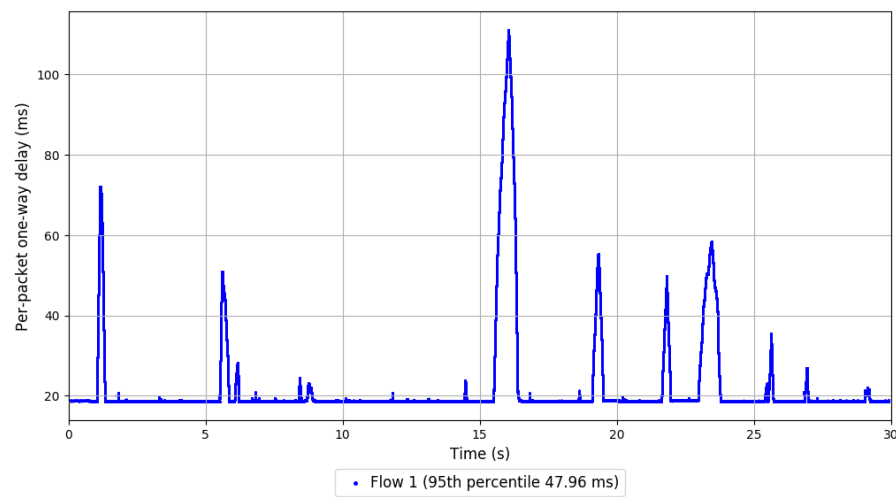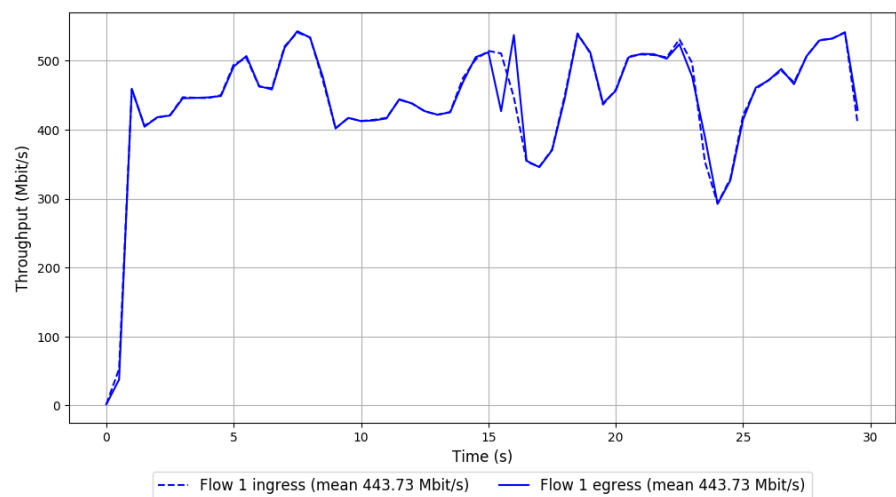
Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 430.91 Mbit/s)　　Flow 1 egress (mean 430.92 Mbit/s)

Flow 1 (95th percentile 24.96 ms)

```
Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 11:26:50
End at: 2018-04-24 11:27:20
Local clock offset: -0.129 ms
Remote clock offset: -6.251 ms


# Below is generated by plot.py at 2018-04-24 16:55:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.10 Mbit/s
95th percentile per-packet one-way delay: 31.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 377.10 Mbit/s
95th percentile per-packet one-way delay: 31.263 ms
Loss rate: 0.00%
```

Run 6: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 377.09 Mbit/s)   Flow 1 egress (mean 377.10 Mbit/s)
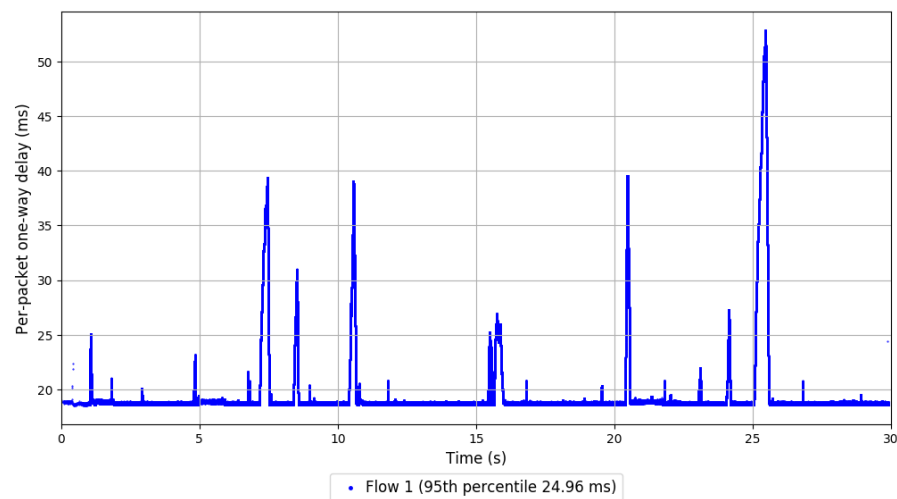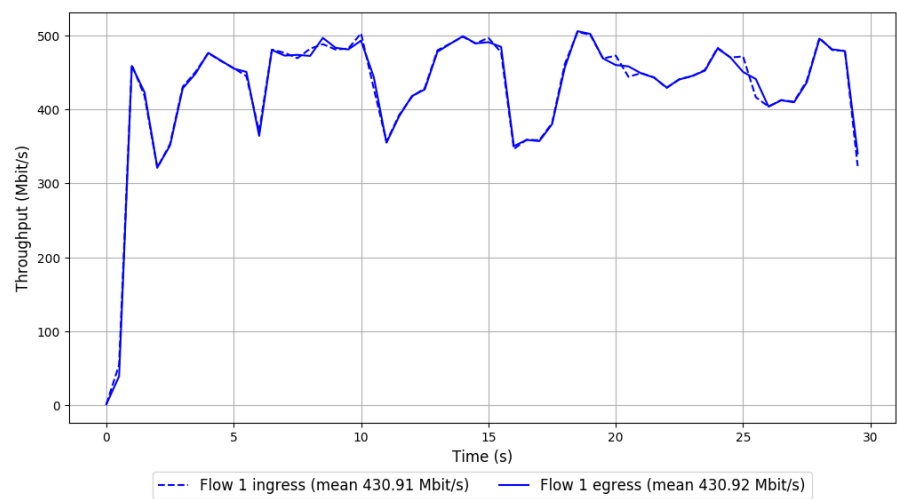

Flow 1 (95th percentile 31.26 ms)

```
Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 11:51:55
End at: 2018-04-24 11:52:25
Local clock offset: -0.338 ms
Remote clock offset: -6.561 ms


# Below is generated by plot.py at 2018-04-24 16:55:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 402.52 Mbit/s
95th percentile per-packet one-way delay: 45.639 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 402.52 Mbit/s
95th percentile per-packet one-way delay: 45.639 ms
Loss rate: 0.00%
```

Run 7: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 402.54 Mbit/s)   Flow 1 egress (mean 402.52 Mbit/s)
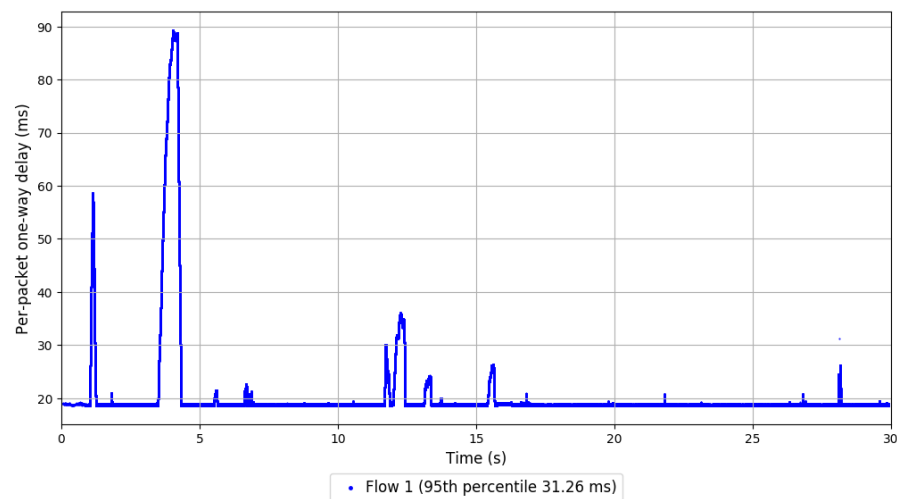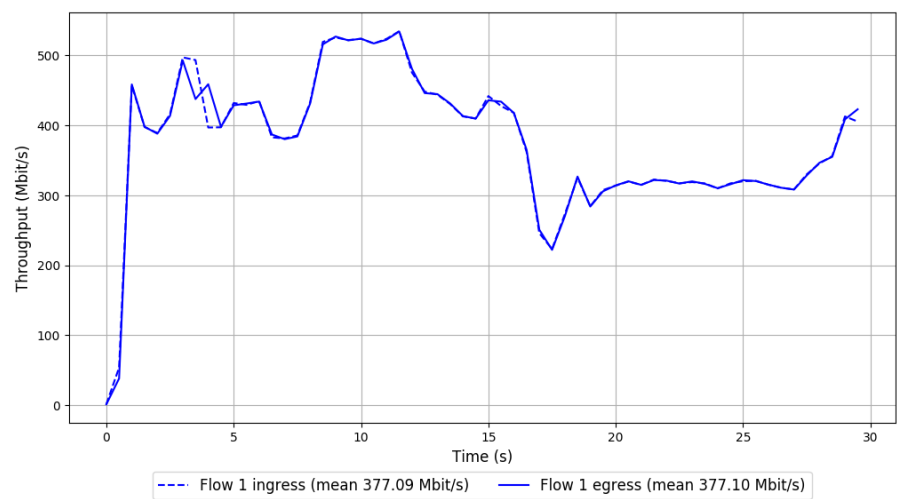

Flow 1 (95th percentile 45.64 ms)

```
Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 12:17:25
End at: 2018-04-24 12:17:55
Local clock offset: -0.102 ms
Remote clock offset: -6.24 ms


# Below is generated by plot.py at 2018-04-24 16:55:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.54 Mbit/s
95th percentile per-packet one-way delay: 18.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 339.54 Mbit/s
95th percentile per-packet one-way delay: 18.885 ms
Loss rate: 0.00%
```

Run 8: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 339.55 Mbit/s)   Flow 1 egress (mean 339.54 Mbit/s)
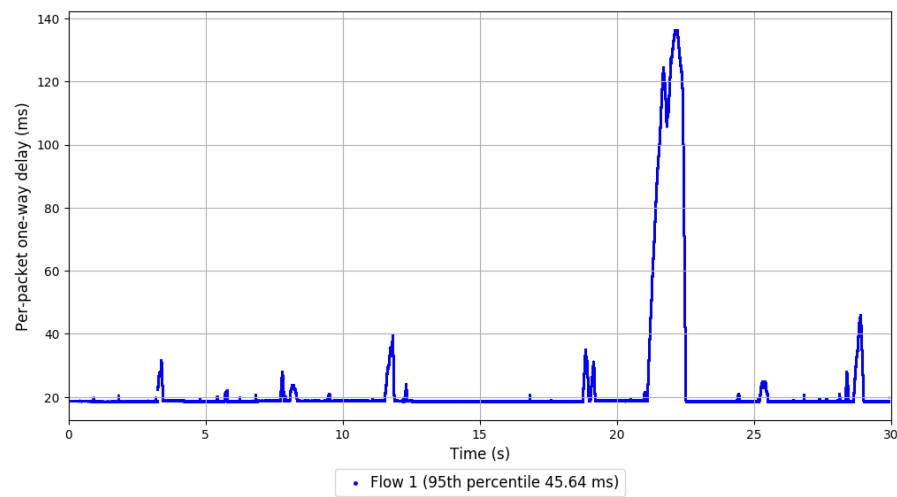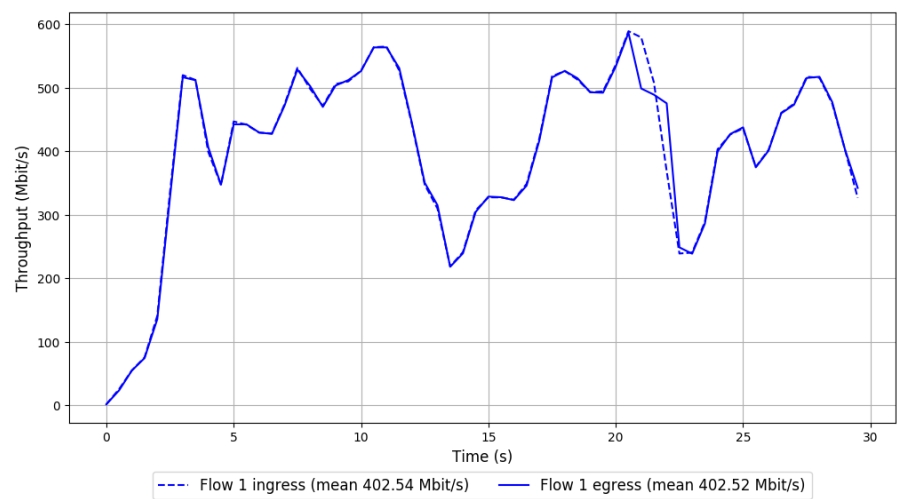

Flow 1 (95th percentile 18.89 ms)

```
Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 12:42:54
End at: 2018-04-24 12:43:24
Local clock offset: -0.172 ms
Remote clock offset: -5.445 ms


# Below is generated by plot.py at 2018-04-24 16:56:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 435.52 Mbit/s
95th percentile per-packet one-way delay: 24.159 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 435.52 Mbit/s
95th percentile per-packet one-way delay: 24.159 ms
Loss rate: 0.00%
```

Run 9: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 435.52 Mbit/s)   Flow 1 egress (mean 435.52 Mbit/s)

Flow 1 (95th percentile 24.16 ms)

```
Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 13:08:08
End at: 2018-04-24 13:08:38
Local clock offset: -0.019 ms
Remote clock offset: -4.965 ms


# Below is generated by plot.py at 2018-04-24 16:56:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.04 Mbit/s
95th percentile per-packet one-way delay: 38.357 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 445.04 Mbit/s
95th percentile per-packet one-way delay: 38.357 ms
Loss rate: 0.01%
```
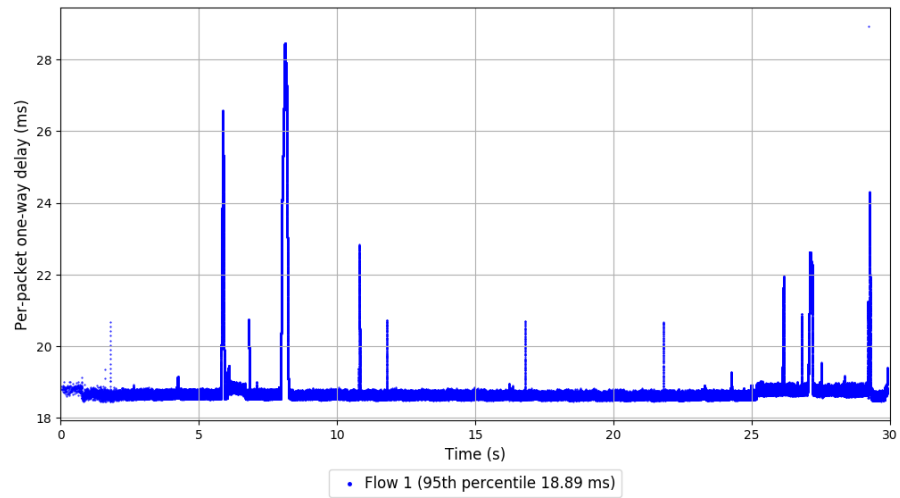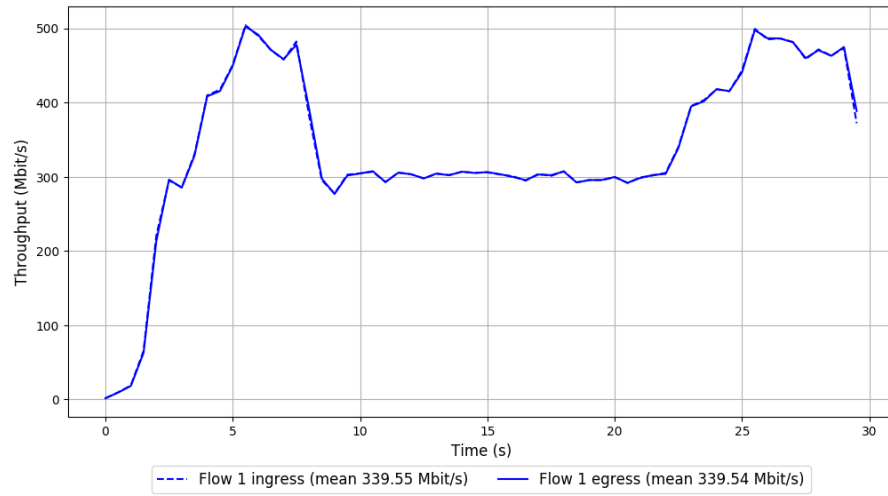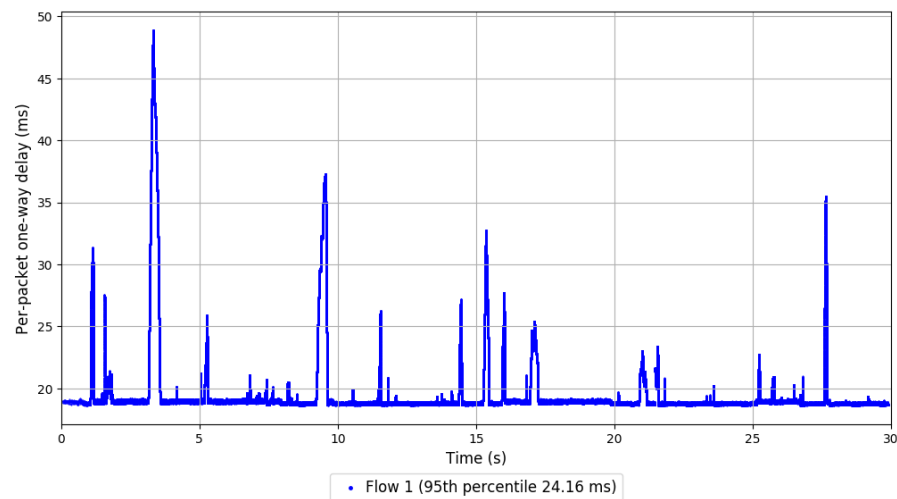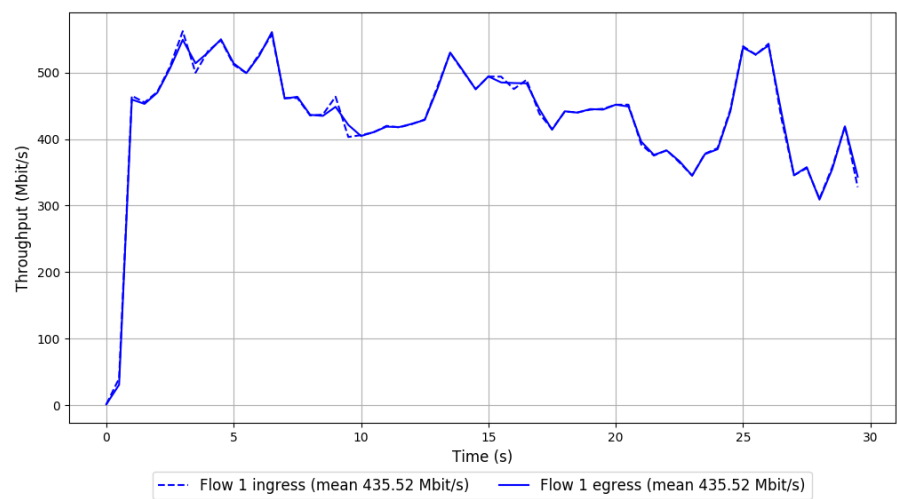
Run 10: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 445.07 Mbit/s) — Flow 1 egress (mean 445.04 Mbit/s)

• Flow 1 (95th percentile 38.36 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 09:40:26
End at: 2018-04-24 09:40:56
Local clock offset: -0.392 ms
Remote clock offset: -5.307 ms
```

Run 1: Report of PCC-Expr — Data Link

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Figure is missing

```
Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 10:05:32
End at: 2018-04-24 10:06:02
Local clock offset: -0.367 ms
Remote clock offset: -5.288 ms
```
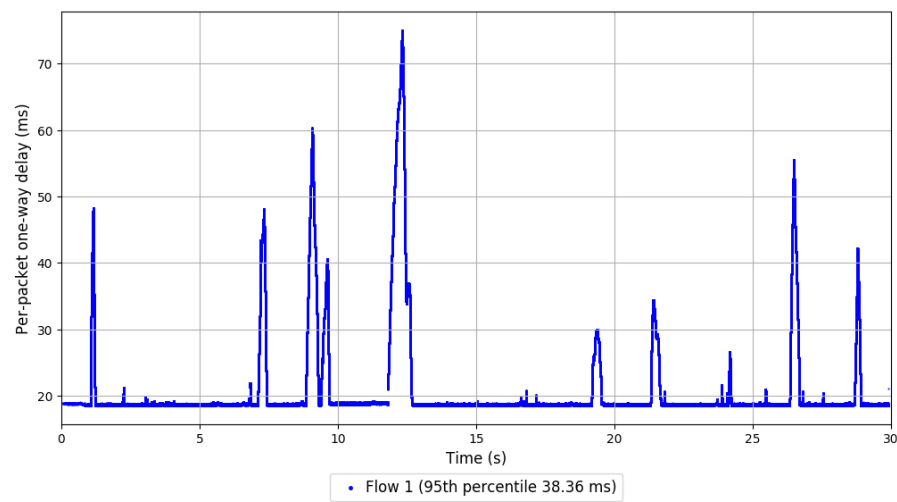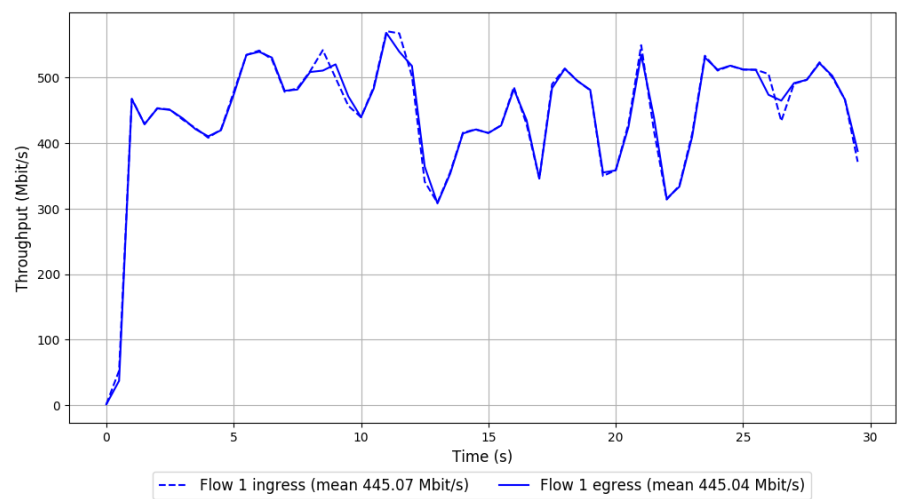
Run 2: Report of PCC-Expr — Data Link

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```
Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 10:30:53
End at: 2018-04-24 10:31:23
Local clock offset: -0.36 ms
Remote clock offset: -5.209 ms
```

Run 3: Report of PCC-Expr — Data Link

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Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 10:55:52
End at: 2018-04-24 10:56:22
Local clock offset: -0.181 ms
Remote clock offset: -5.583 ms

Run 4: Report of PCC-Expr — Data Link

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```
Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 11:20:49
End at: 2018-04-24 11:21:19
Local clock offset: -0.023 ms
Remote clock offset: -6.253 ms
```

Run 5: Report of PCC-Expr — Data Link

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```
Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 11:45:50
End at: 2018-04-24 11:46:20
Local clock offset: -0.4 ms
Remote clock offset: -6.46 ms
```

Run 6: Report of PCC-Expr — Data Link

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```
Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 12:11:20
End at: 2018-04-24 12:11:50
Local clock offset: -0.248 ms
Remote clock offset: -6.751 ms
```

Run 7: Report of PCC-Expr — Data Link

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```
Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 12:36:49
End at: 2018-04-24 12:37:19
Local clock offset: -0.158 ms
Remote clock offset: -5.427 ms
```

Run 8: Report of PCC-Expr — Data Link

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```
Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 13:02:04
End at: 2018-04-24 13:02:34
Local clock offset: -0.107 ms
Remote clock offset: -4.929 ms
```

Run 9: Report of PCC-Expr — Data Link

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```
Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 13:27:39
End at: 2018-04-24 13:28:09
Local clock offset: 0.124 ms
Remote clock offset: -5.096 ms
```

Run 10: Report of PCC-Expr — Data Link

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