Pantheon Report

Generated at 2017-08-30 02:41:08 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

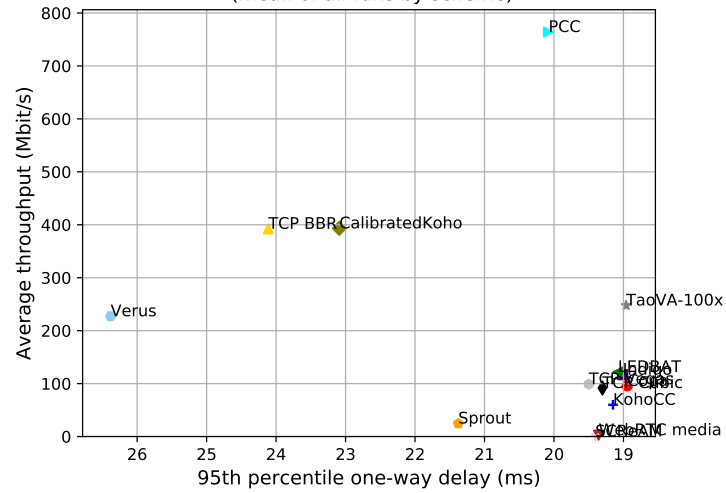Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

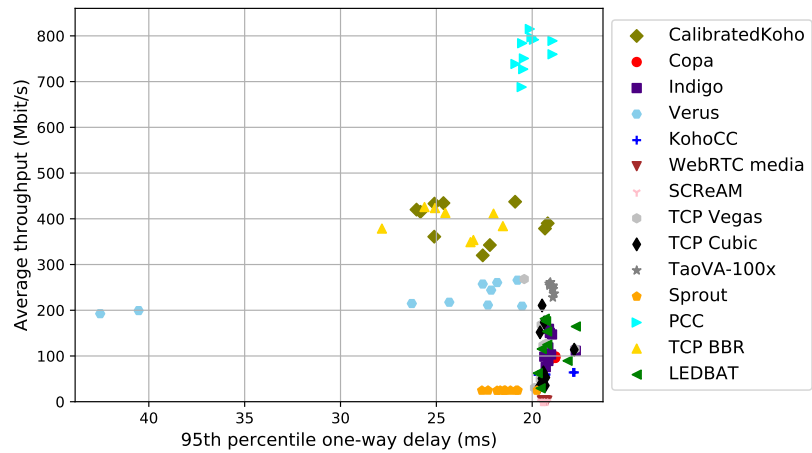NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 8a8eb0fa450ac2fa3f5abc8e72a84db4249be58f
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ 7ddb4adf480966042c0438984cb22a298bfa635f
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
 M scripts/merge-tunnel-logs
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS California 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	8	392.33	24.11	0.22
CalibratedKoho	10	393.24	23.09	0.07
Copa	8	95.62	18.95	0.06
TCP Cubic	10	91.66	19.30	0.06
Indigo	10	116.80	19.01	0.04
KohoCC	10	59.90	19.15	0.06
LEDBAT	9	121.84	19.08	0.04
PCC	10	764.08	20.08	0.12
QUIC Cubic	0	N/A	N/A	N/A
SCReAM	10	0.21	19.41	0.03
Sprout	10	24.61	21.38	0.23
TaoVA-100x	10	247.54	18.96	0.04
TCP Vegas	10	98.88	19.50	0.07
Verus	10	227.19	26.38	0.10
WebRTC media	10	2.61	19.36	0.04

```
Run 1: Statistics of TCP BBR

Start at: 2017-08-29 20:56:10
End at: 2017-08-29 20:56:40
Local clock offset: 1.943 ms
Remote clock offset: -1.145 ms

# Below is generated by plot.py at 2017-08-30 02:10:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 353.61 Mbit/s
95th percentile per-packet one-way delay: 23.068 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 353.61 Mbit/s
95th percentile per-packet one-way delay: 23.068 ms
Loss rate: 0.27%
```
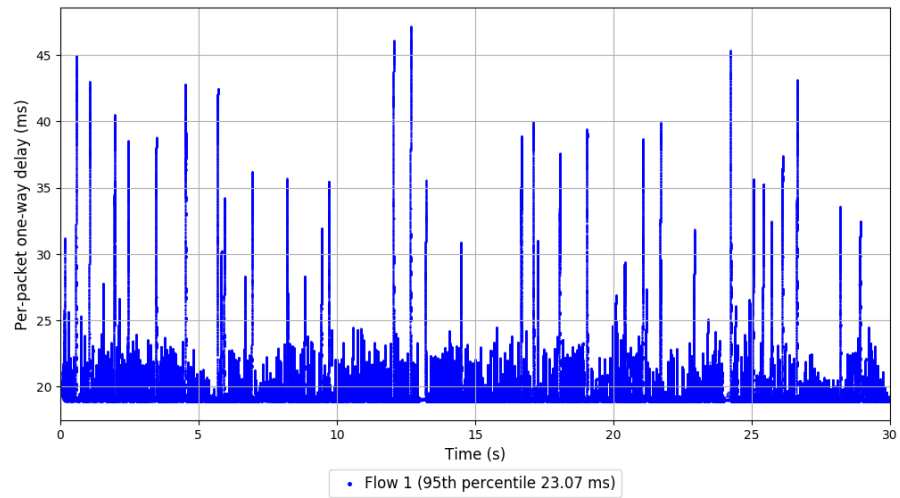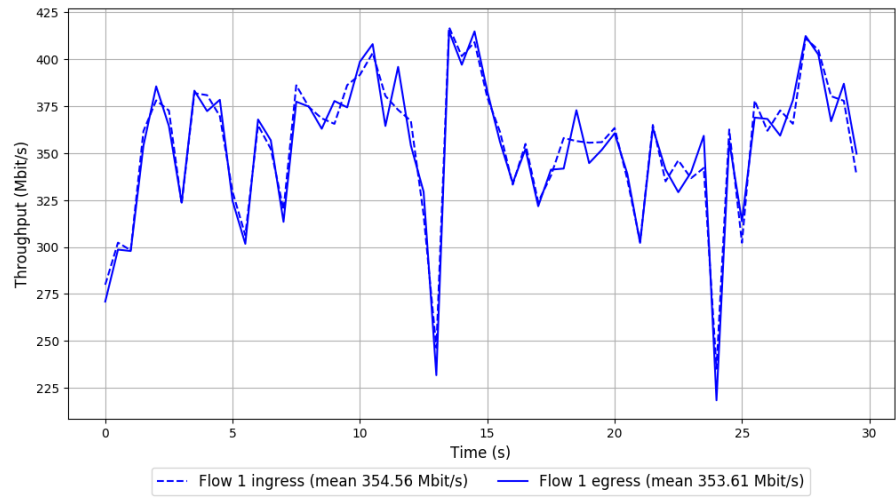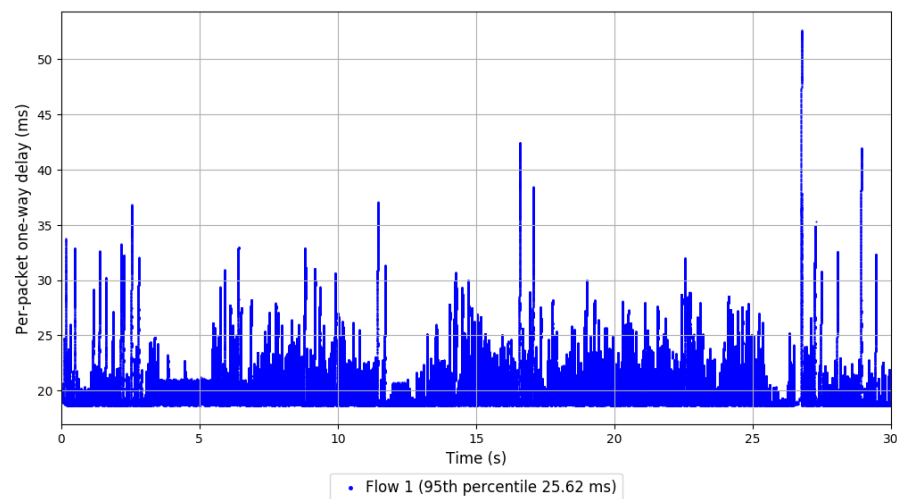
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2017-08-29 21:15:42
End at: 2017-08-29 21:16:12
Local clock offset: 1.749 ms
Remote clock offset: -1.358 ms
```

Run 2: Report of TCP BBR — Data Link

```
Run 3: Statistics of TCP BBR

Start at: 2017-08-29 21:35:08
End at: 2017-08-29 21:35:38
Local clock offset: 1.388 ms
Remote clock offset: -1.411 ms


# Below is generated by plot.py at 2017-08-30 02:11:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 425.72 Mbit/s
95th percentile per-packet one-way delay: 25.618 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 425.72 Mbit/s
95th percentile per-packet one-way delay: 25.618 ms
Loss rate: 0.06%
```
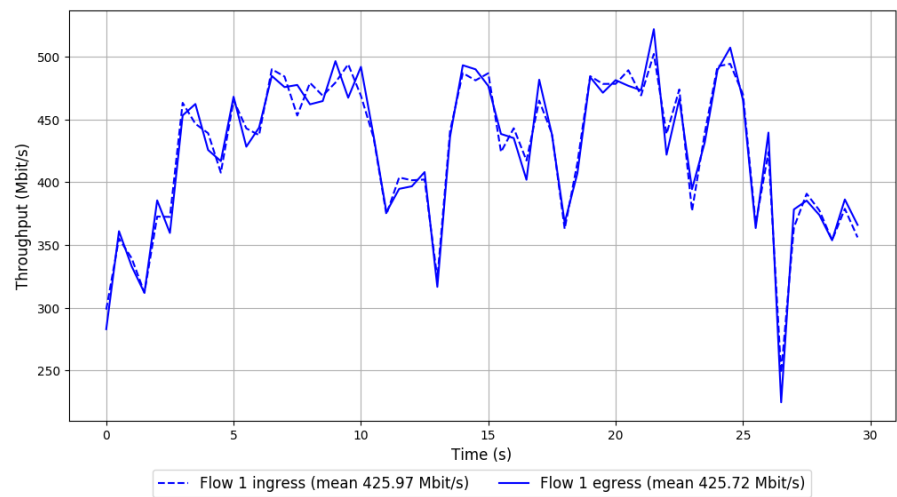
Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 425.97 Mbit/s)   Flow 1 egress (mean 425.72 Mbit/s)

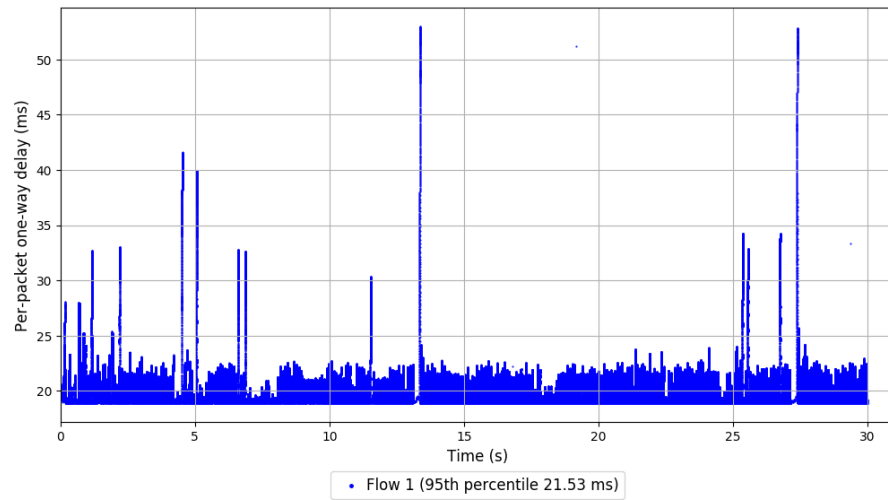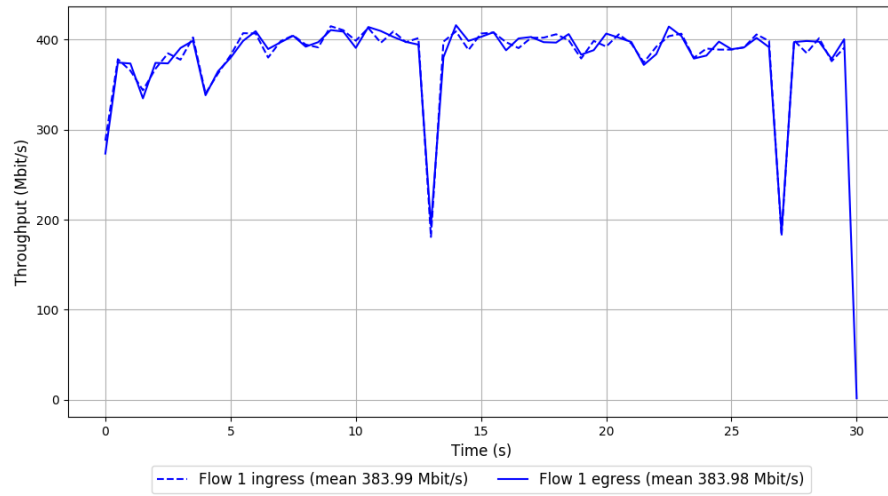

• Flow 1 (95th percentile 25.62 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2017-08-29 21:55:20
End at: 2017-08-29 21:55:50
Local clock offset: 1.357 ms
Remote clock offset: -1.397 ms


# Below is generated by plot.py at 2017-08-30 02:11:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 383.98 Mbit/s
95th percentile per-packet one-way delay: 21.529 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 383.98 Mbit/s
95th percentile per-packet one-way delay: 21.529 ms
Loss rate: 0.01%
```
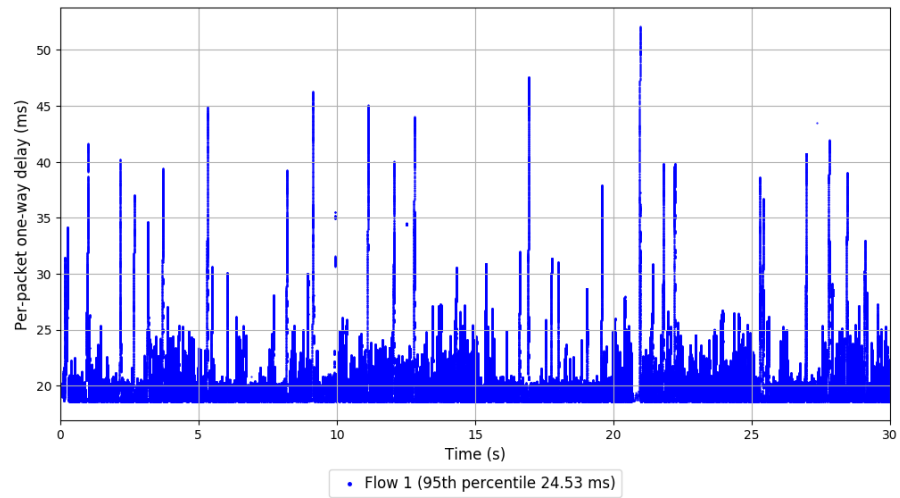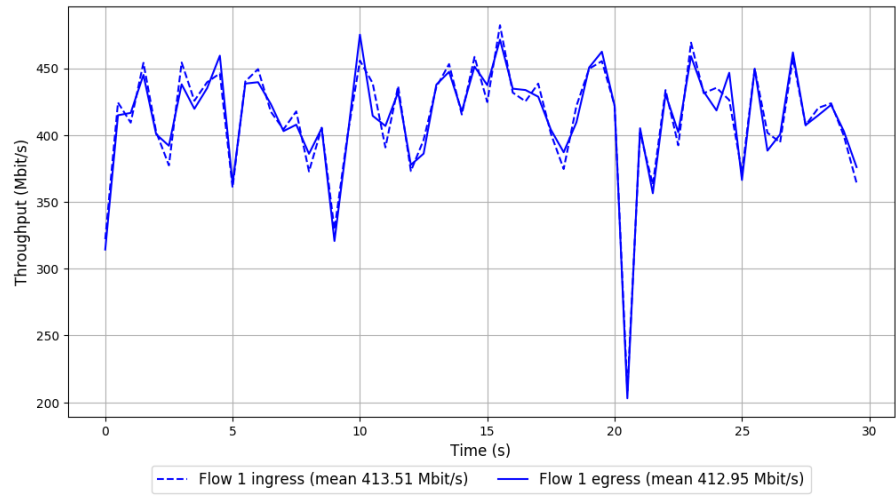
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 383.99 Mbit/s)   Flow 1 egress (mean 383.98 Mbit/s)

Flow 1 (95th percentile 21.53 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2017-08-29 22:15:18
End at: 2017-08-29 22:15:48
Local clock offset: 1.357 ms
Remote clock offset: -1.315 ms

# Below is generated by plot.py at 2017-08-30 02:12:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.95 Mbit/s
95th percentile per-packet one-way delay: 24.530 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 412.95 Mbit/s
95th percentile per-packet one-way delay: 24.530 ms
Loss rate: 0.13%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 413.51 Mbit/s)   Flow 1 egress (mean 412.95 Mbit/s)

Flow 1 (95th percentile 24.53 ms)
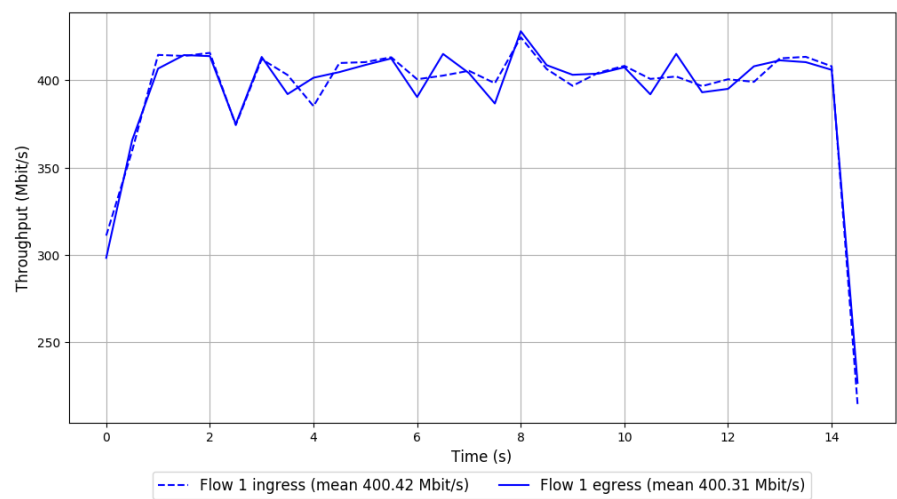
```
Run 6: Statistics of TCP BBR

Start at: 2017-08-29 22:35:24
End at: 2017-08-29 22:35:54
Local clock offset: 1.184 ms
Remote clock offset: -1.316 ms
```
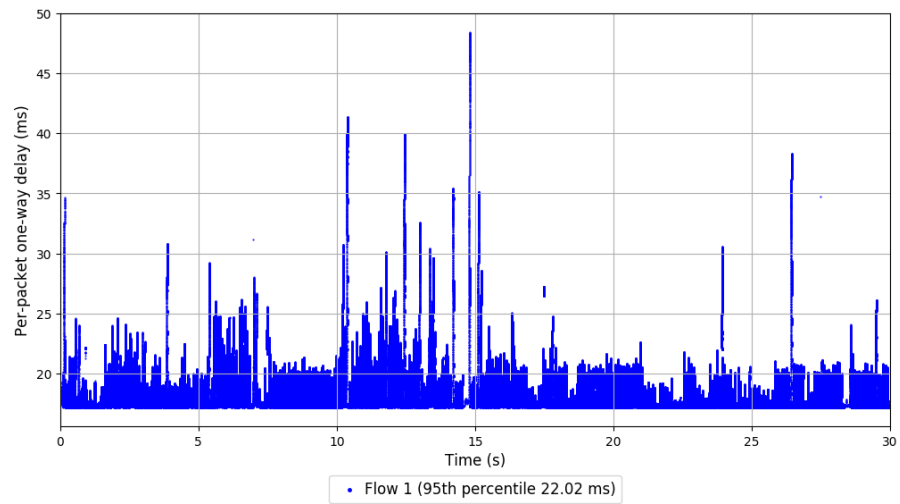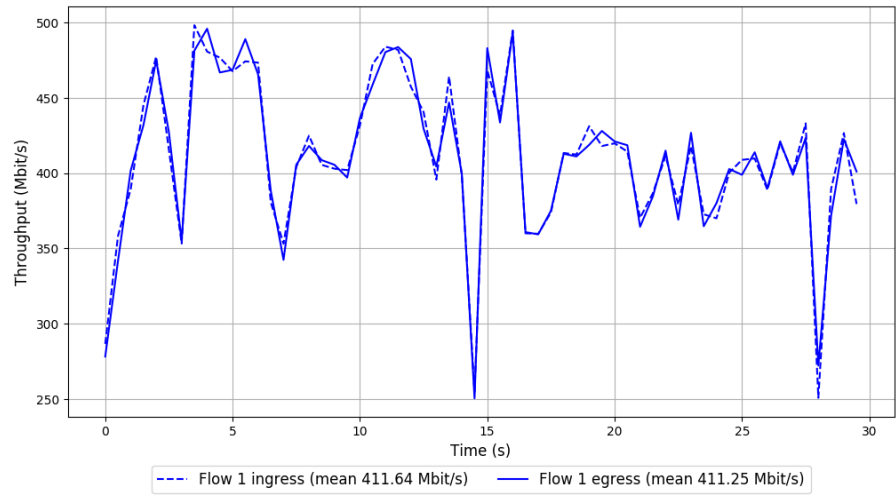
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 400.42 Mbit/s) ———— Flow 1 egress (mean 400.31 Mbit/s)

• Flow 1 (95th percentile 21.49 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2017-08-29 22:55:10
End at: 2017-08-29 22:55:40
Local clock offset: 0.915 ms
Remote clock offset: -1.357 ms


# Below is generated by plot.py at 2017-08-30 02:13:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 411.25 Mbit/s
95th percentile per-packet one-way delay: 22.017 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 411.25 Mbit/s
95th percentile per-packet one-way delay: 22.017 ms
Loss rate: 0.10%
```
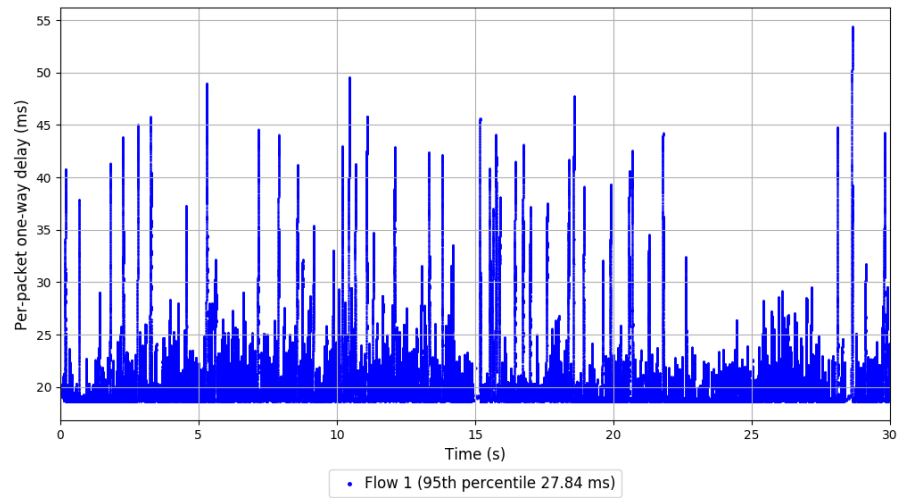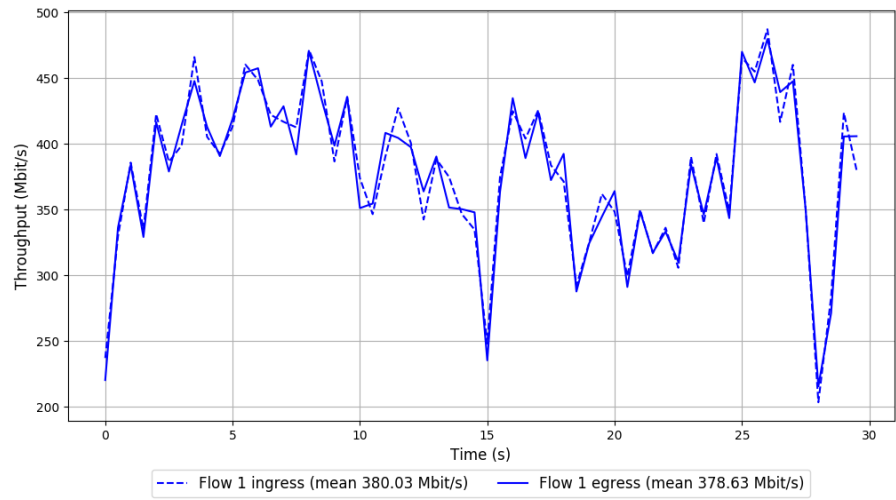
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 411.64 Mbit/s)   Flow 1 egress (mean 411.25 Mbit/s)

Flow 1 (95th percentile 22.02 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2017-08-29 23:15:07
End at: 2017-08-29 23:15:37
Local clock offset: 0.844 ms
Remote clock offset: -1.424 ms


# Below is generated by plot.py at 2017-08-30 02:13:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.63 Mbit/s
95th percentile per-packet one-way delay: 27.840 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 378.63 Mbit/s
95th percentile per-packet one-way delay: 27.840 ms
Loss rate: 0.36%
```
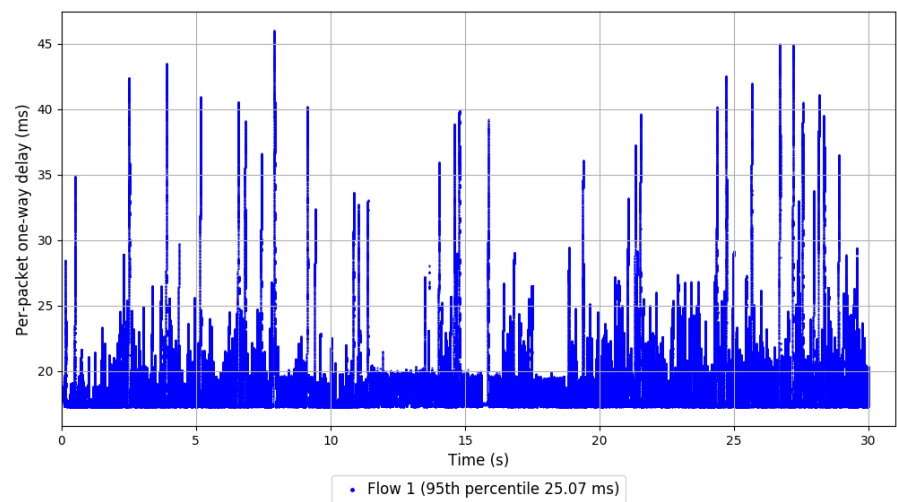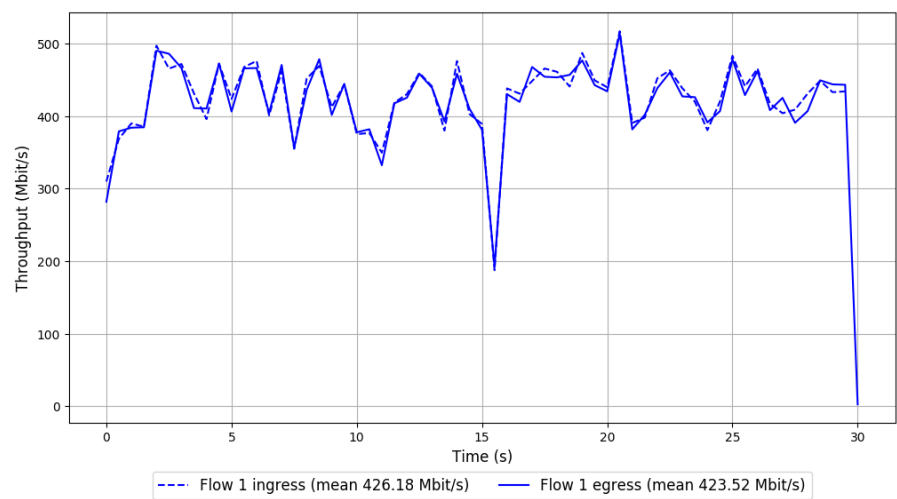
Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 380.03 Mbit/s) —— Flow 1 egress (mean 378.63 Mbit/s)

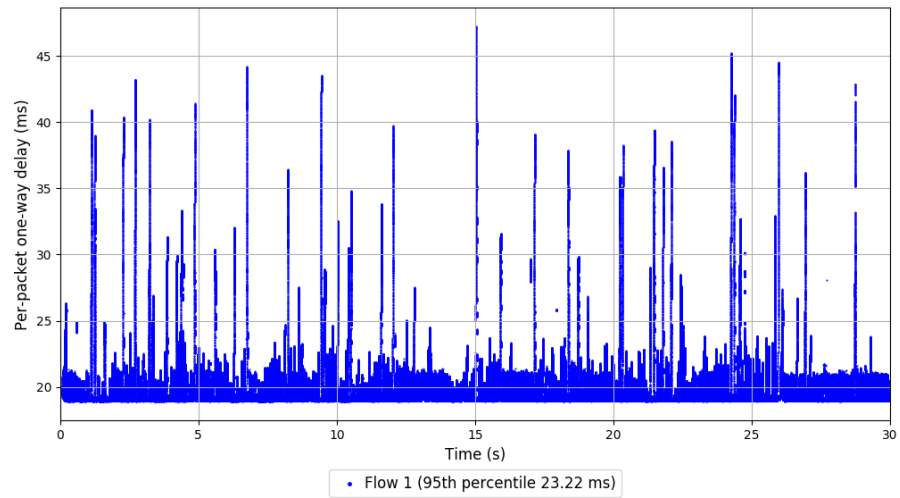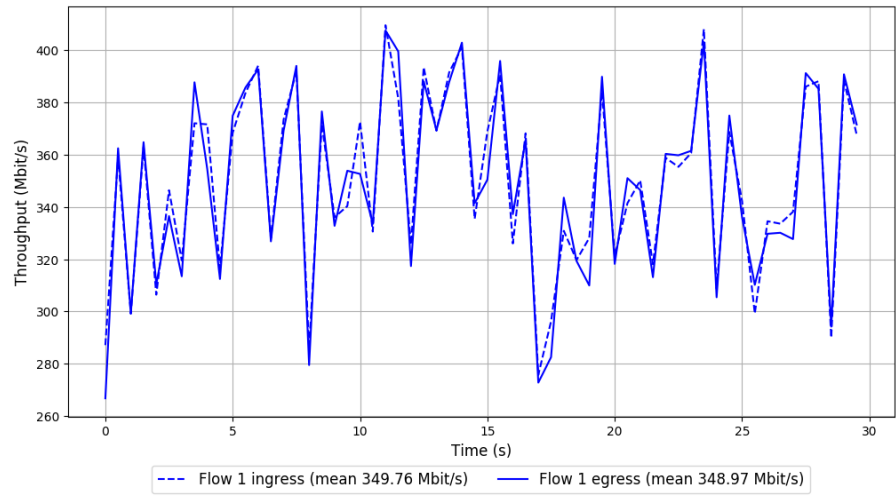• Flow 1 (95th percentile 27.84 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2017-08-29 23:34:49
End at: 2017-08-29 23:35:19
Local clock offset: 0.625 ms
Remote clock offset: -1.81 ms


# Below is generated by plot.py at 2017-08-30 02:13:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 423.52 Mbit/s
95th percentile per-packet one-way delay: 25.071 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 423.52 Mbit/s
95th percentile per-packet one-way delay: 25.071 ms
Loss rate: 0.62%
```

Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 426.18 Mbit/s)   Flow 1 egress (mean 423.52 Mbit/s)

Flow 1 (95th percentile 25.07 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2017-08-29 23:54:42
End at: 2017-08-29 23:55:13
Local clock offset: 0.406 ms
Remote clock offset: -1.945 ms


# Below is generated by plot.py at 2017-08-30 02:13:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 348.97 Mbit/s
95th percentile per-packet one-way delay: 23.219 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 348.97 Mbit/s
95th percentile per-packet one-way delay: 23.219 ms
Loss rate: 0.24%
```

Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of CalibratedKoho

Start at: 2017-08-29 20:54:33
End at: 2017-08-29 20:55:03
Local clock offset: 2.018 ms
Remote clock offset: -1.11 ms


# Below is generated by plot.py at 2017-08-30 02:14:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 433.18 Mbit/s
95th percentile per-packet one-way delay: 25.098 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 433.18 Mbit/s
95th percentile per-packet one-way delay: 25.098 ms
Loss rate: 0.10%
```
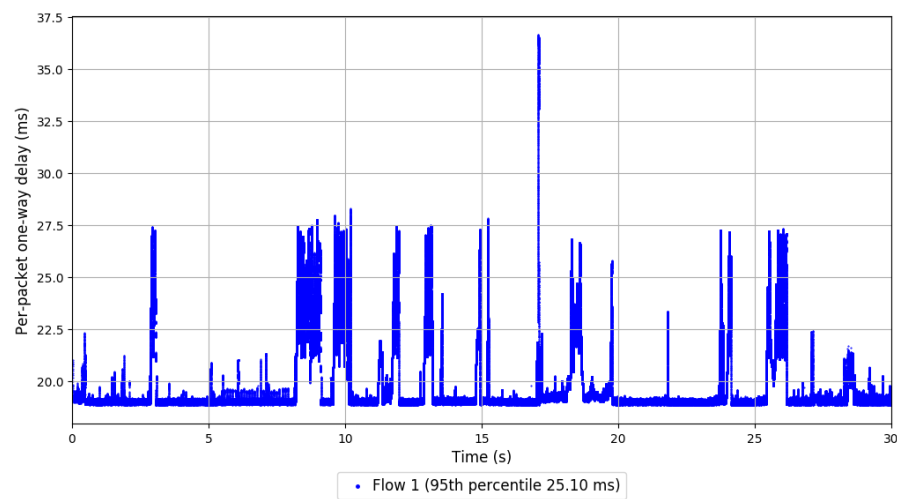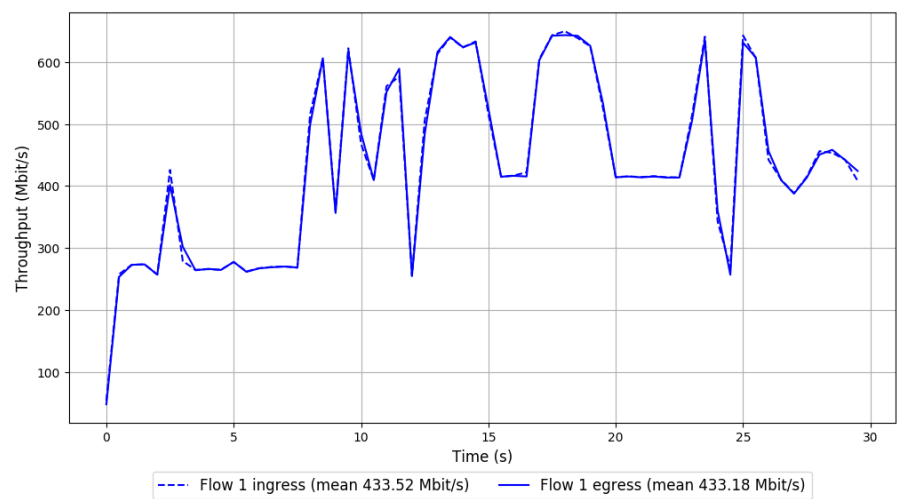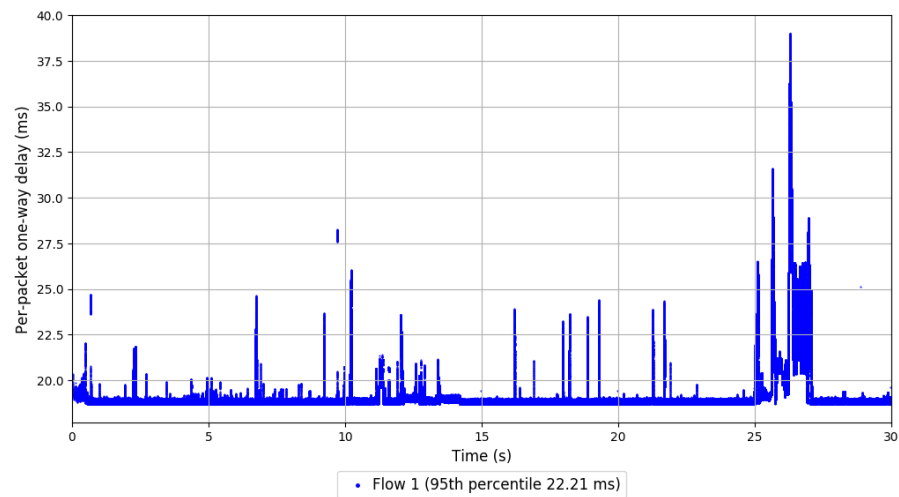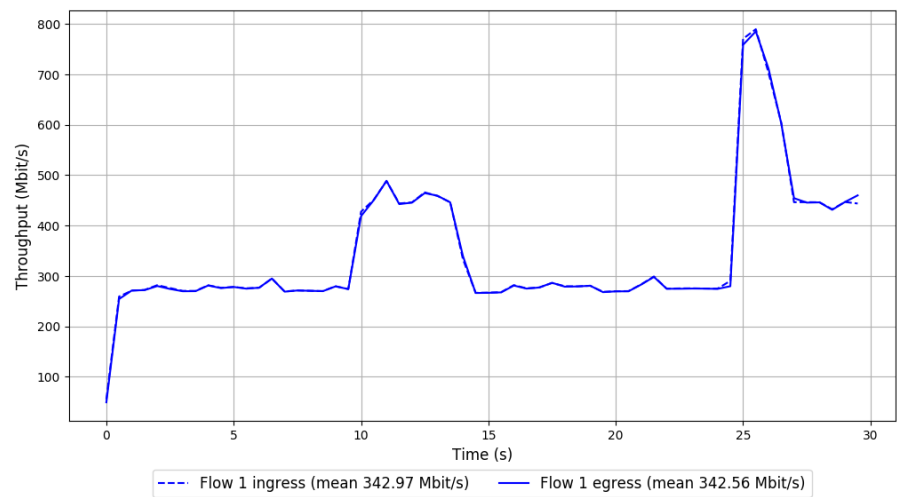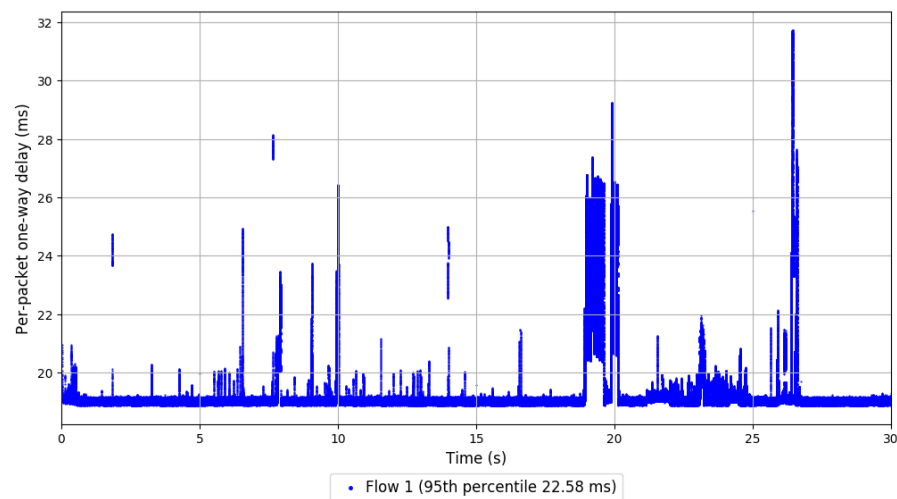
Run 1: Report of CalibratedKoho — Data Link

```
Run 2: Statistics of CalibratedKoho

Start at: 2017-08-29 21:14:10
End at: 2017-08-29 21:14:40
Local clock offset: 1.681 ms
Remote clock offset: -1.337 ms


# Below is generated by plot.py at 2017-08-30 02:14:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.56 Mbit/s
95th percentile per-packet one-way delay: 22.208 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 342.56 Mbit/s
95th percentile per-packet one-way delay: 22.208 ms
Loss rate: 0.15%
```

Run 2: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 342.97 Mbit/s)   Flow 1 egress (mean 342.56 Mbit/s)
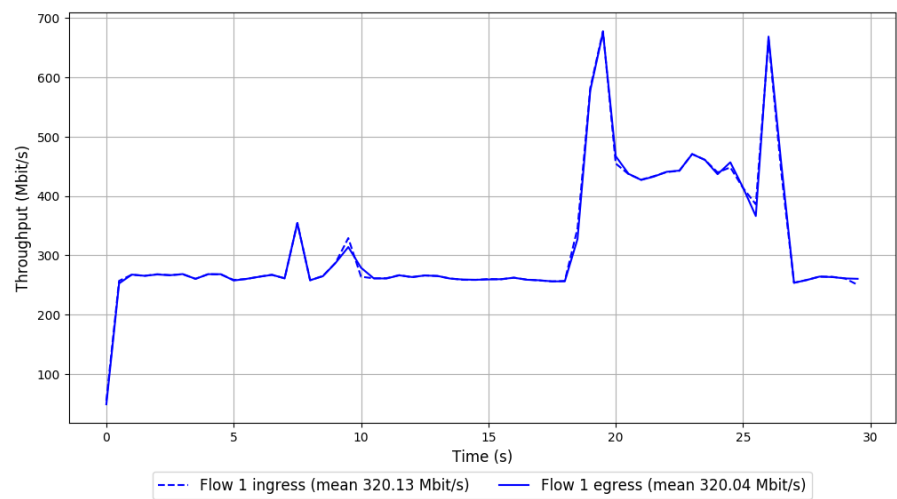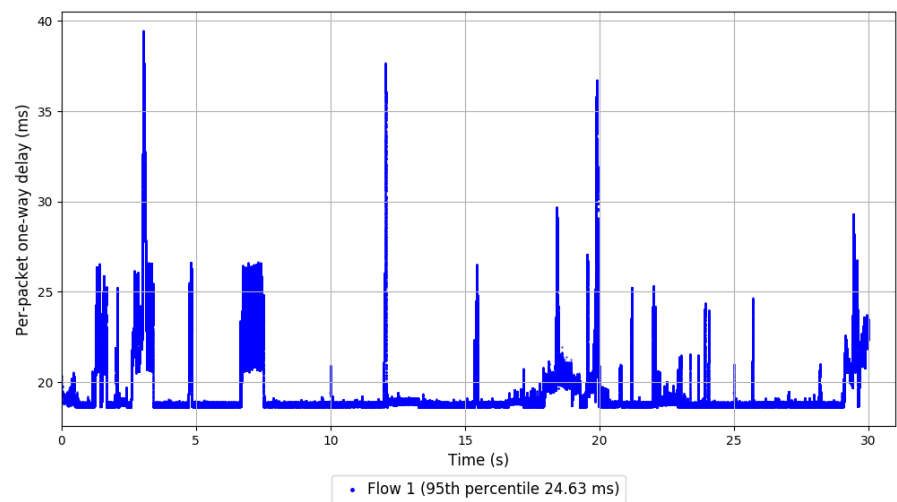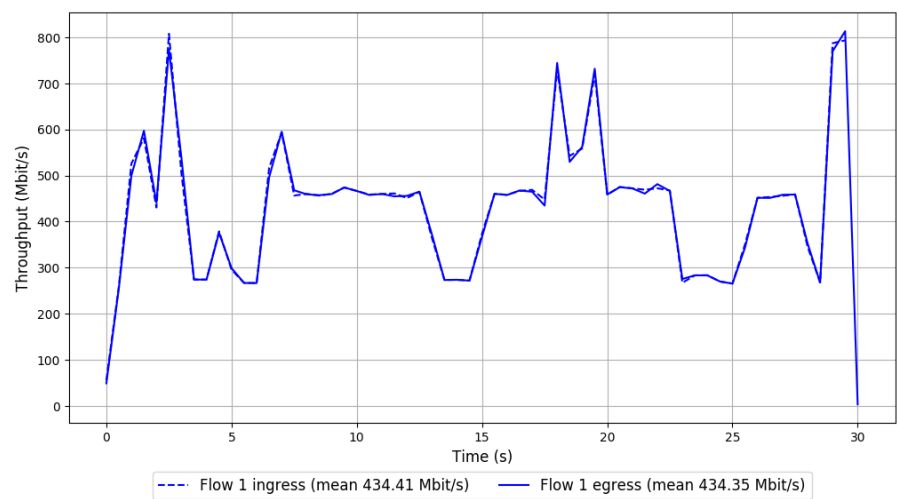

Flow 1 (95th percentile 22.21 ms)

```
Run 3: Statistics of CalibratedKoho

Start at: 2017-08-29 21:33:38
End at: 2017-08-29 21:34:08
Local clock offset: 1.513 ms
Remote clock offset: -1.345 ms

# Below is generated by plot.py at 2017-08-30 02:15:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.04 Mbit/s
95th percentile per-packet one-way delay: 22.580 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 320.04 Mbit/s
95th percentile per-packet one-way delay: 22.580 ms
Loss rate: 0.05%
```

Run 3: Report of CalibratedKoho — Data Link

Flow 1 ingress (mean 320.13 Mbit/s) — Flow 1 egress (mean 320.04 Mbit/s)
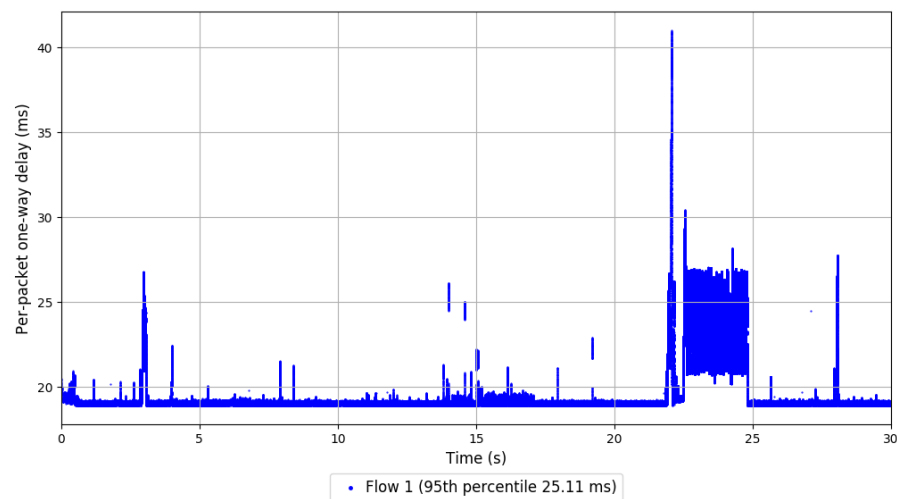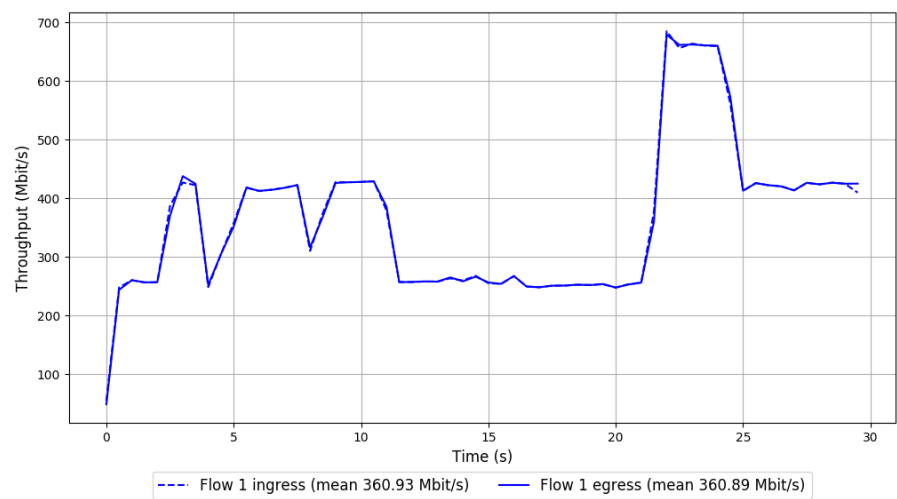

• Flow 1 (95th percentile 22.58 ms)

```
Run 4: Statistics of CalibratedKoho

Start at: 2017-08-29 21:53:43
End at: 2017-08-29 21:54:13
Local clock offset: 1.383 ms
Remote clock offset: -1.467 ms


# Below is generated by plot.py at 2017-08-30 02:15:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 434.35 Mbit/s
95th percentile per-packet one-way delay: 24.630 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 434.35 Mbit/s
95th percentile per-packet one-way delay: 24.630 ms
Loss rate: 0.03%
```

Run 4: Report of CalibratedKoho — Data Link

```
Run 5: Statistics of CalibratedKoho

Start at: 2017-08-29 22:13:46
End at: 2017-08-29 22:14:16
Local clock offset: 1.276 ms
Remote clock offset: -1.335 ms


# Below is generated by plot.py at 2017-08-30 02:16:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 360.89 Mbit/s
95th percentile per-packet one-way delay: 25.109 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 360.89 Mbit/s
95th percentile per-packet one-way delay: 25.109 ms
Loss rate: 0.02%
```
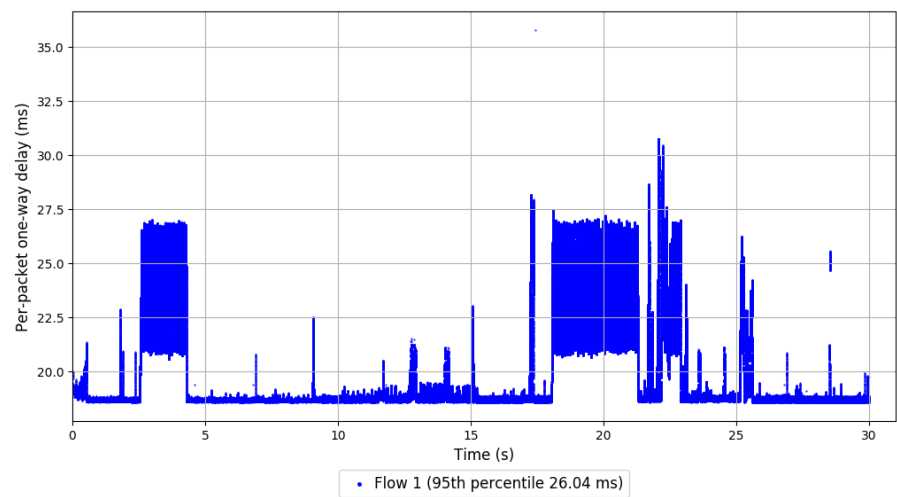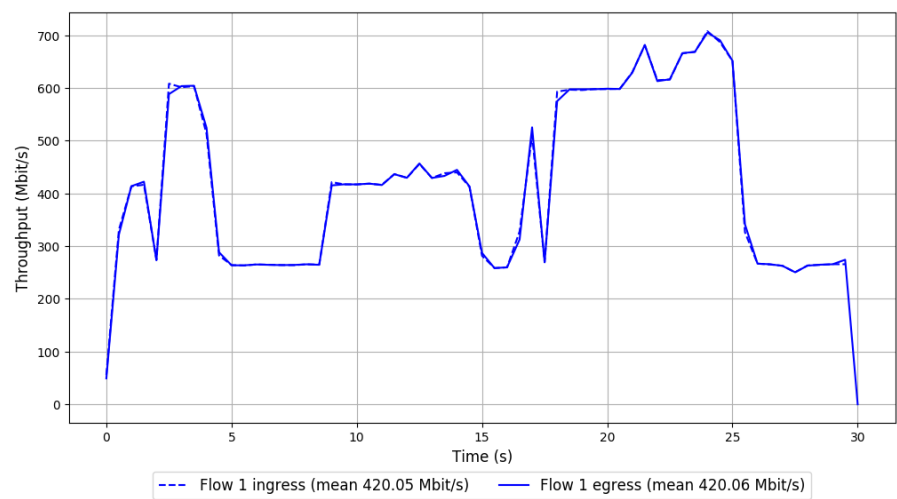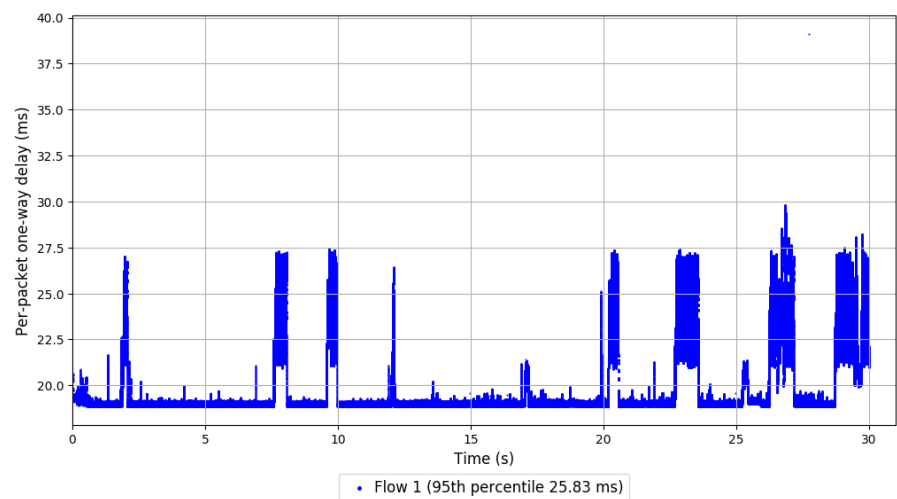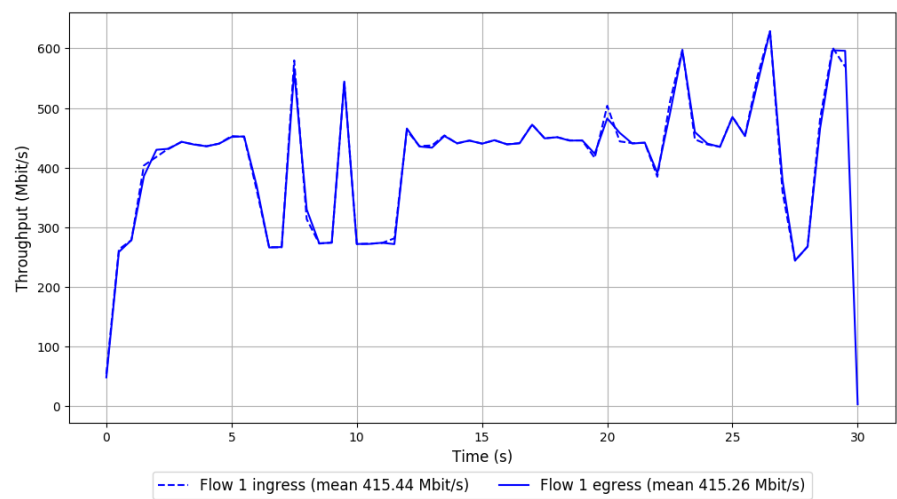
Run 5: Report of CalibratedKoho — Data Link

```
Run 6: Statistics of CalibratedKoho

Start at: 2017-08-29 22:33:48
End at: 2017-08-29 22:34:18
Local clock offset: 1.214 ms
Remote clock offset: -1.314 ms


# Below is generated by plot.py at 2017-08-30 02:16:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.06 Mbit/s
95th percentile per-packet one-way delay: 26.035 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 420.06 Mbit/s
95th percentile per-packet one-way delay: 26.035 ms
Loss rate: 0.01%
```

Run 6: Report of CalibratedKoho — Data Link

```
Run 7: Statistics of CalibratedKoho

Start at: 2017-08-29 22:53:34
End at: 2017-08-29 22:54:04
Local clock offset: 0.939 ms
Remote clock offset: -1.324 ms


# Below is generated by plot.py at 2017-08-30 02:16:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 415.26 Mbit/s
95th percentile per-packet one-way delay: 25.829 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 415.26 Mbit/s
95th percentile per-packet one-way delay: 25.829 ms
Loss rate: 0.04%
```
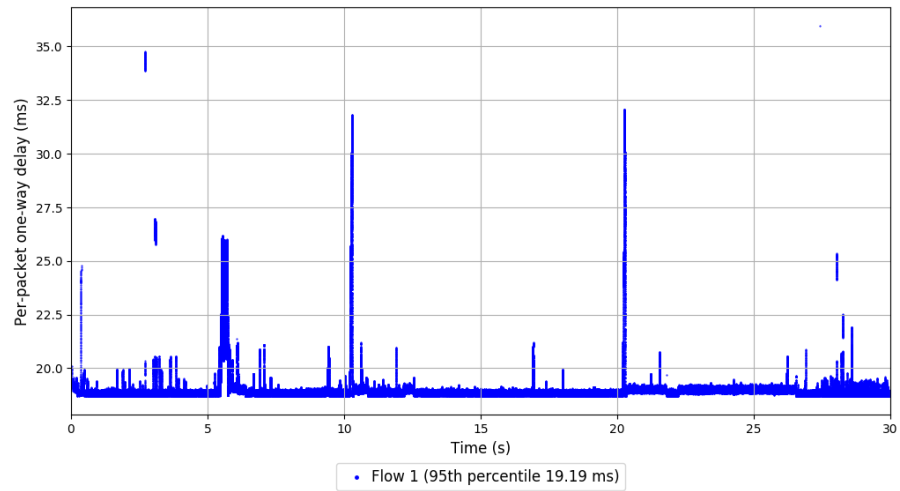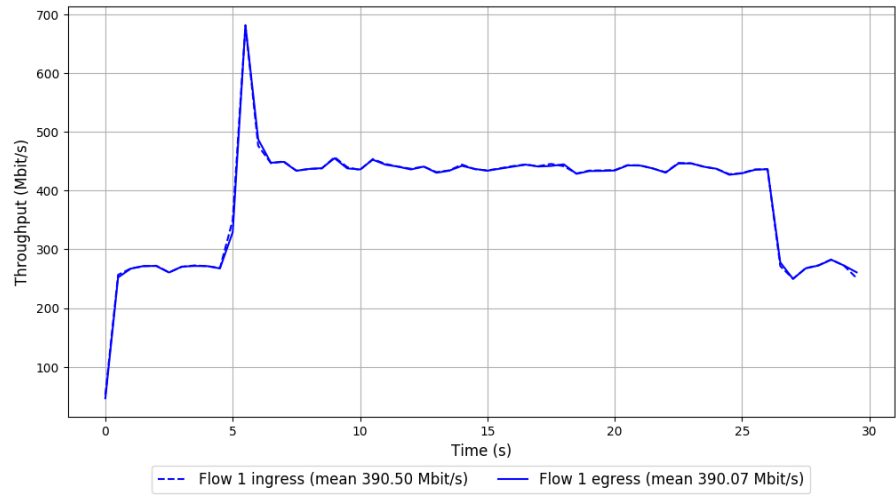
Run 7: Report of CalibratedKoho — Data Link

```
Run 8: Statistics of CalibratedKoho

Start at: 2017-08-29 23:13:33
End at: 2017-08-29 23:14:03
Local clock offset: 0.741 ms
Remote clock offset: -1.435 ms


# Below is generated by plot.py at 2017-08-30 02:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.07 Mbit/s
95th percentile per-packet one-way delay: 19.192 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 390.07 Mbit/s
95th percentile per-packet one-way delay: 19.192 ms
Loss rate: 0.11%
```
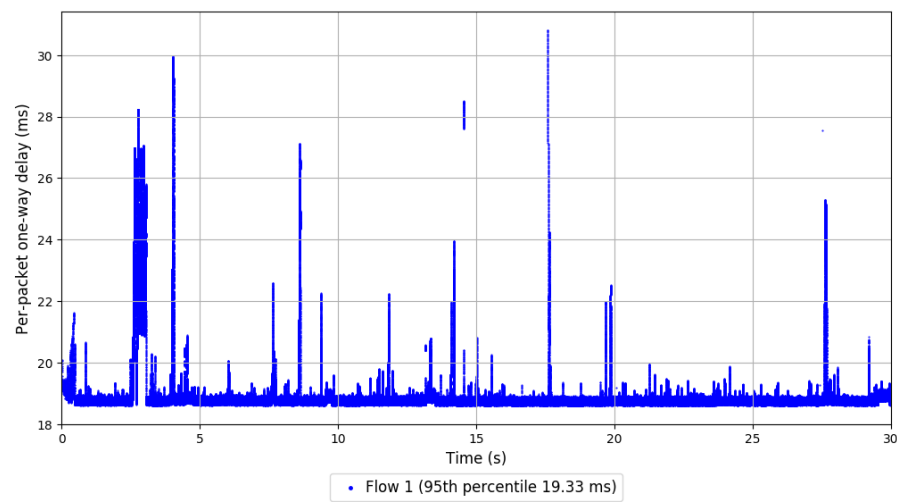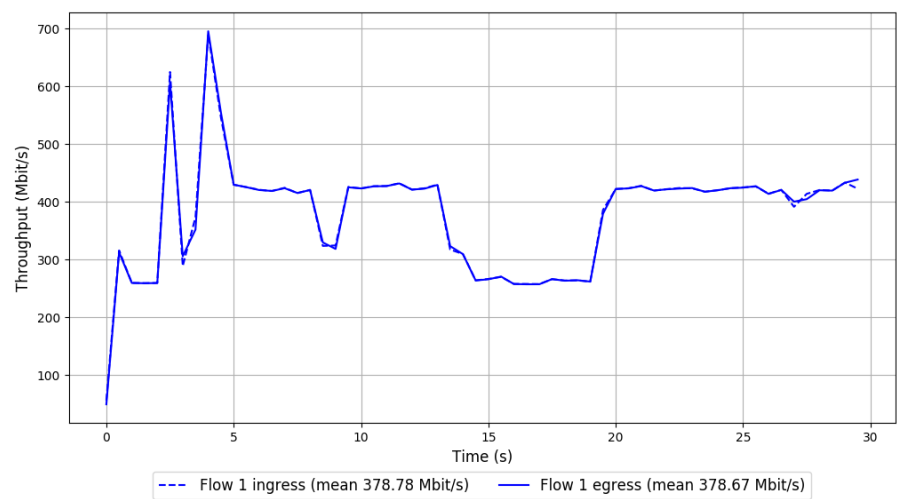
Run 8: Report of CalibratedKoho — Data Link

```
Run 9: Statistics of CalibratedKoho

Start at: 2017-08-29 23:33:15
End at: 2017-08-29 23:33:45
Local clock offset: 0.719 ms
Remote clock offset: -1.791 ms


# Below is generated by plot.py at 2017-08-30 02:17:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.67 Mbit/s
95th percentile per-packet one-way delay: 19.333 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 378.67 Mbit/s
95th percentile per-packet one-way delay: 19.333 ms
Loss rate: 0.05%
```

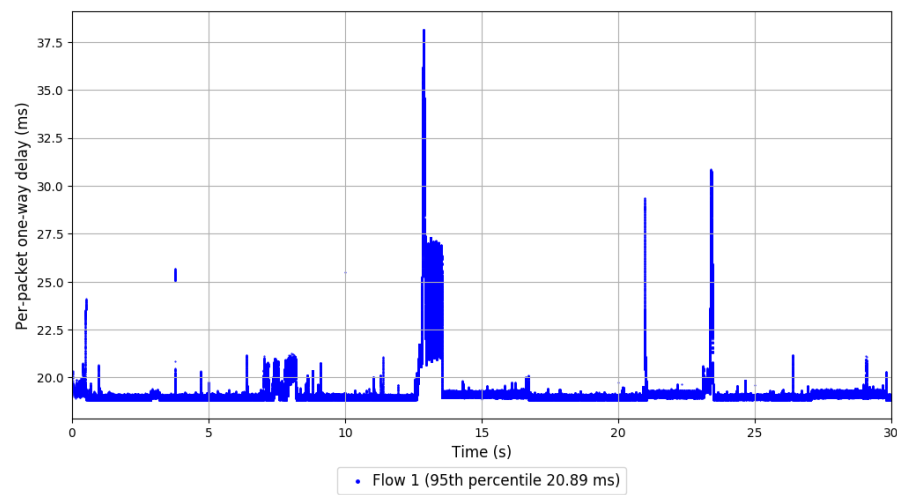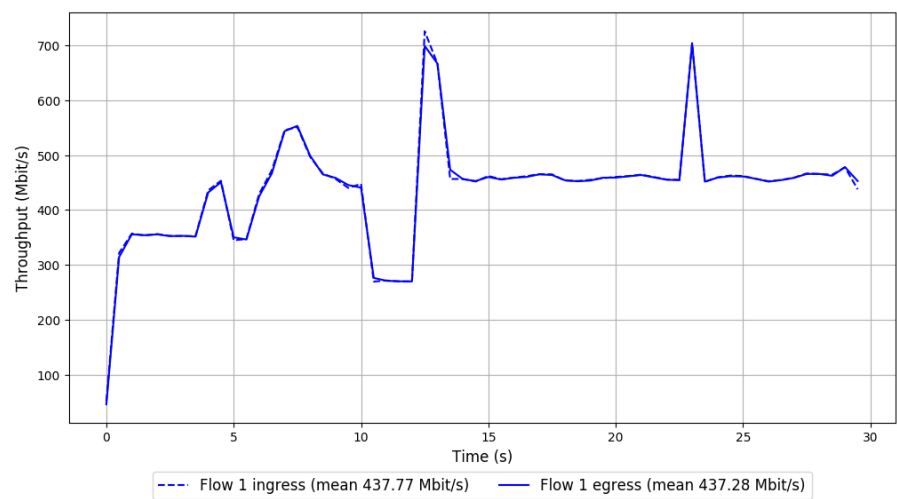Run 9: Report of CalibratedKoho — Data Link

41

```
Run 10: Statistics of CalibratedKoho

Start at: 2017-08-29 23:53:05
End at: 2017-08-29 23:53:35
Local clock offset: 0.501 ms
Remote clock offset: -1.941 ms


# Below is generated by plot.py at 2017-08-30 02:18:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 437.28 Mbit/s
95th percentile per-packet one-way delay: 20.890 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 437.28 Mbit/s
95th percentile per-packet one-way delay: 20.890 ms
Loss rate: 0.12%
```

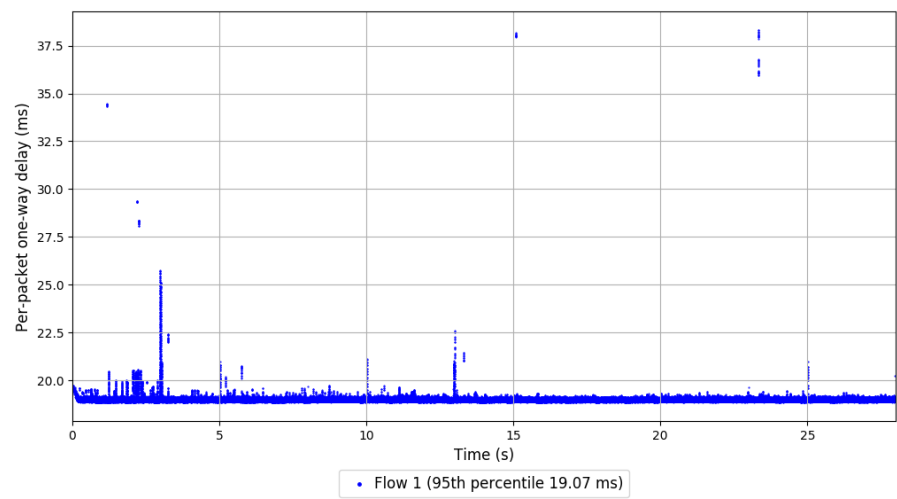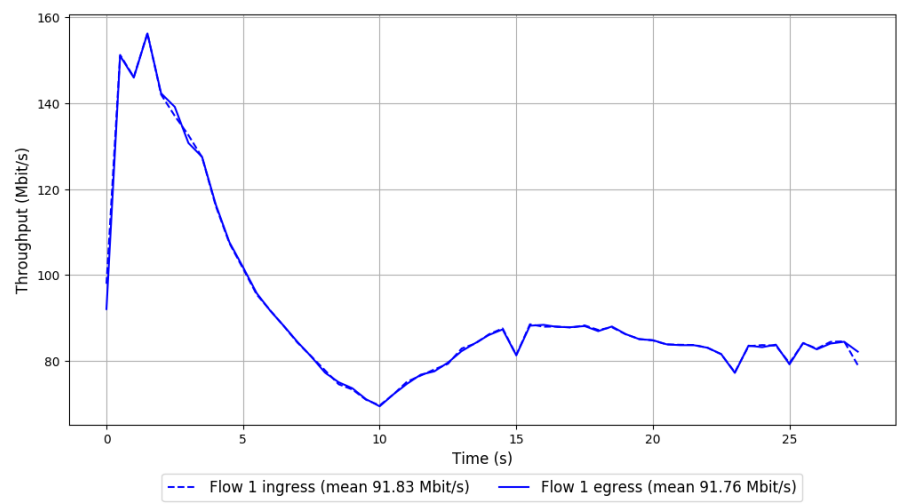Run 10: Report of CalibratedKoho — Data Link

```
Run 1: Statistics of Copa

Start at: 2017-08-29 21:05:15
End at: 2017-08-29 21:05:45
Local clock offset: 1.903 ms
Remote clock offset: -1.153 ms


# Below is generated by plot.py at 2017-08-30 02:18:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.76 Mbit/s
95th percentile per-packet one-way delay: 19.071 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 91.76 Mbit/s
95th percentile per-packet one-way delay: 19.071 ms
Loss rate: 0.08%
```

Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 91.83 Mbit/s)   Flow 1 egress (mean 91.76 Mbit/s)

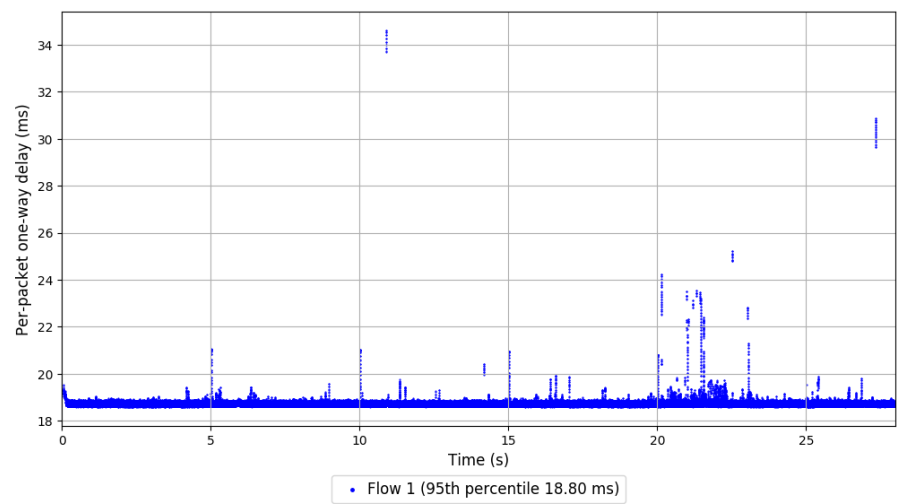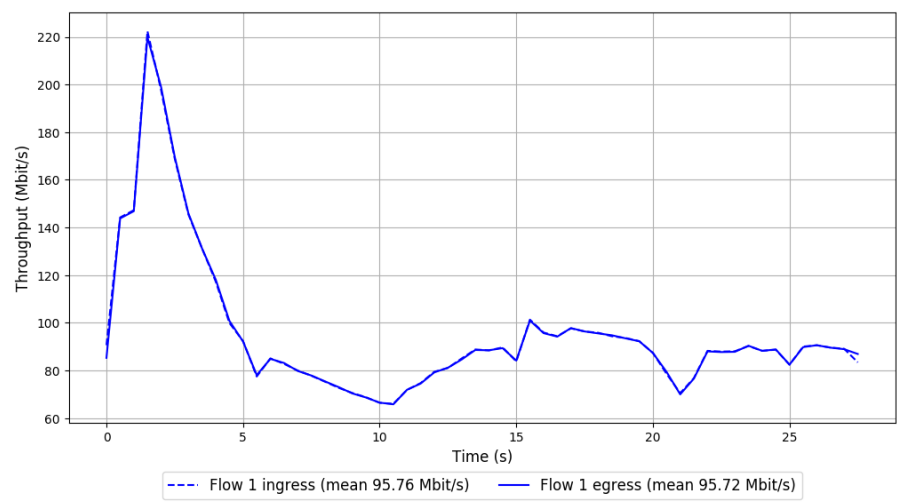Flow 1 (95th percentile 19.07 ms)

```
Run 2: Statistics of Copa

Start at: 2017-08-29 21:24:38
End at: 2017-08-29 21:25:08
Local clock offset: 1.628 ms
Remote clock offset: -1.372 ms


# Below is generated by plot.py at 2017-08-30 02:18:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 18.800 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 95.72 Mbit/s
95th percentile per-packet one-way delay: 18.800 ms
Loss rate: 0.05%
```

Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2017-08-29 21:44:35
End at: 2017-08-29 21:45:05
Local clock offset: 1.316 ms
Remote clock offset: -1.33 ms


# Below is generated by plot.py at 2017-08-30 02:18:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 19.157 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 92.57 Mbit/s
95th percentile per-packet one-way delay: 19.157 ms
Loss rate: 0.01%
```
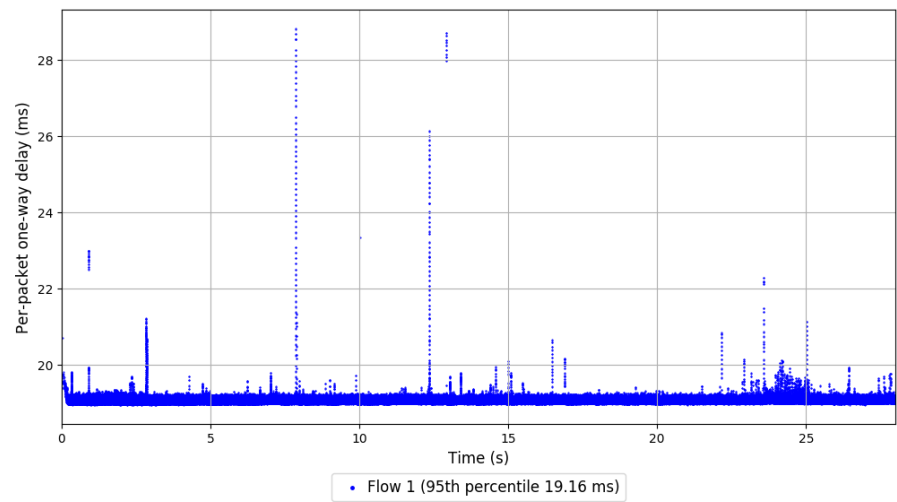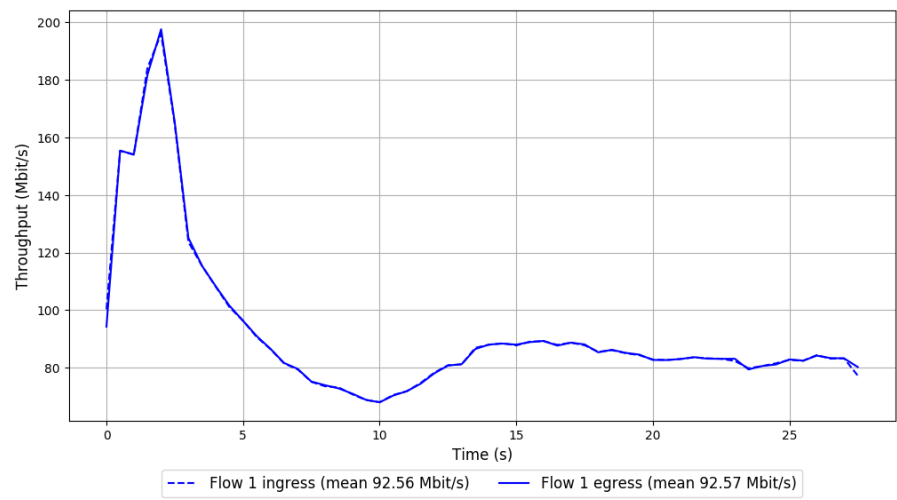
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 92.56 Mbit/s)   Flow 1 egress (mean 92.57 Mbit/s)
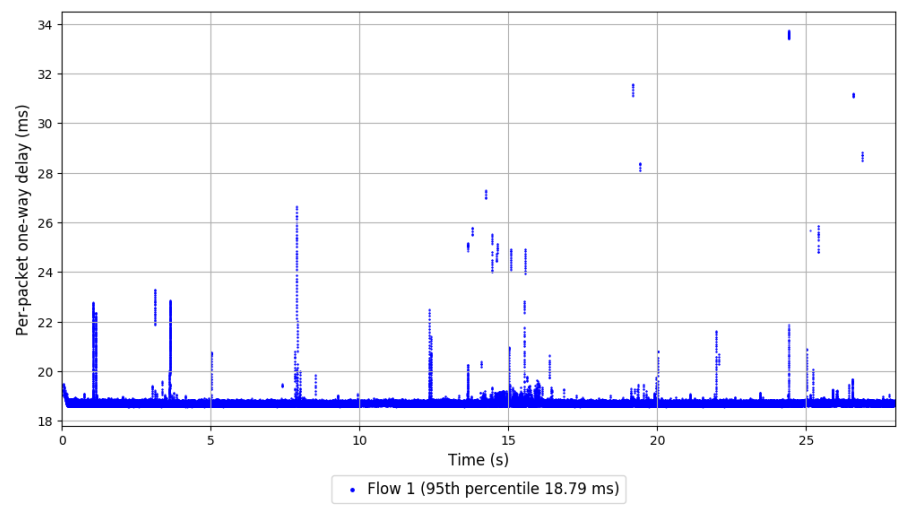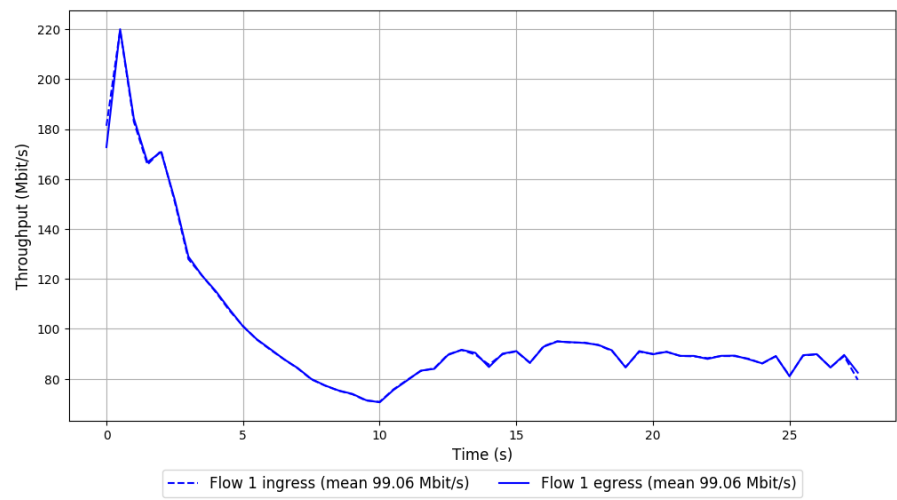

Flow 1 (95th percentile 19.16 ms)

```
Run 4: Statistics of Copa

Start at: 2017-08-29 22:04:44
End at: 2017-08-29 22:05:14
Local clock offset: 1.379 ms
Remote clock offset: -1.453 ms


# Below is generated by plot.py at 2017-08-30 02:18:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 99.06 Mbit/s
95th percentile per-packet one-way delay: 18.785 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 99.06 Mbit/s
95th percentile per-packet one-way delay: 18.785 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2017-08-29 22:24:52
End at: 2017-08-29 22:25:22
Local clock offset: 1.234 ms
Remote clock offset: -1.193 ms
```

Run 5: Report of Copa — Data Link
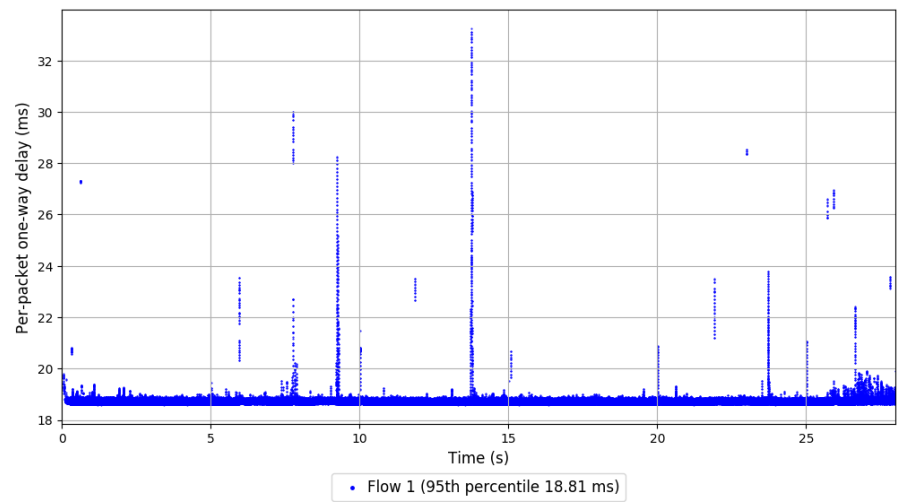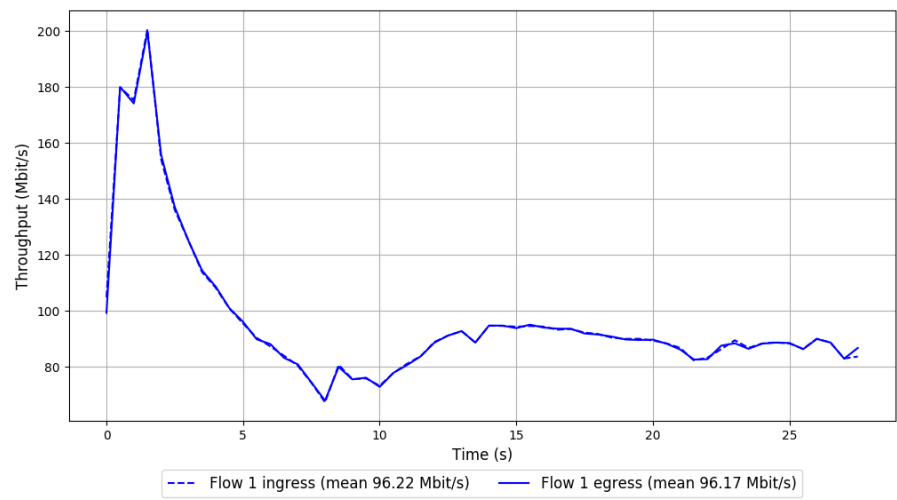
Figure is missing

Figure is missing

```
Run 6: Statistics of Copa

Start at: 2017-08-29 22:44:32
End at: 2017-08-29 22:45:02
Local clock offset: 1.057 ms
Remote clock offset: -1.334 ms


# Below is generated by plot.py at 2017-08-30 02:19:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 18.810 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 96.17 Mbit/s
95th percentile per-packet one-way delay: 18.810 ms
Loss rate: 0.05%
```
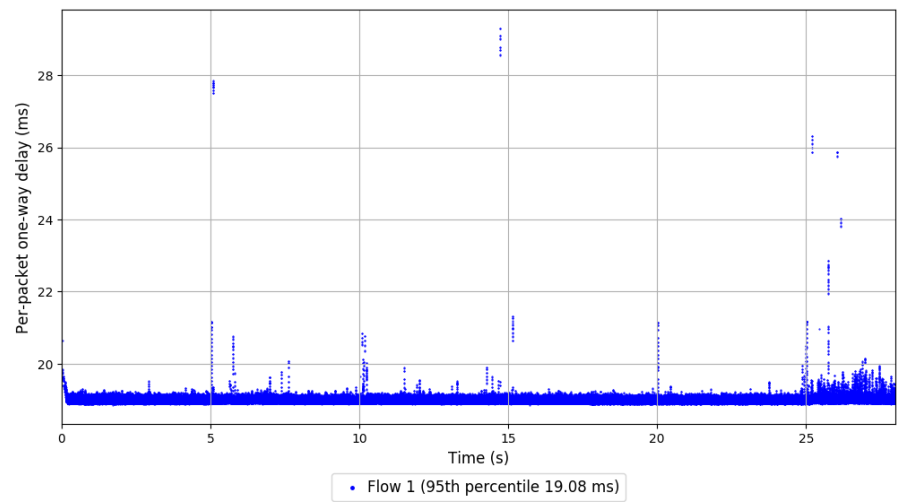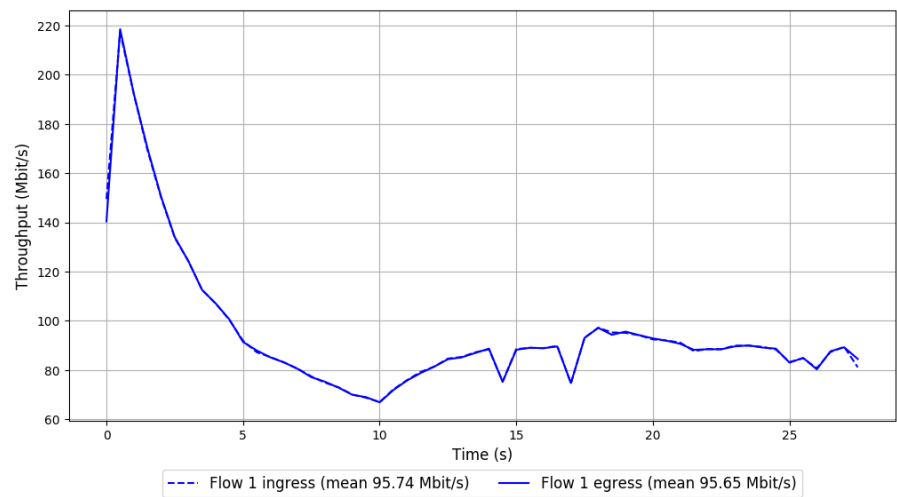
Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 96.22 Mbit/s)   Flow 1 egress (mean 96.17 Mbit/s)

Flow 1 (95th percentile 18.81 ms)

```
Run 7: Statistics of Copa

Start at: 2017-08-29 23:04:33
End at: 2017-08-29 23:05:03
Local clock offset: 0.846 ms
Remote clock offset: -1.33 ms


# Below is generated by plot.py at 2017-08-30 02:19:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 19.080 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 19.080 ms
Loss rate: 0.10%
```

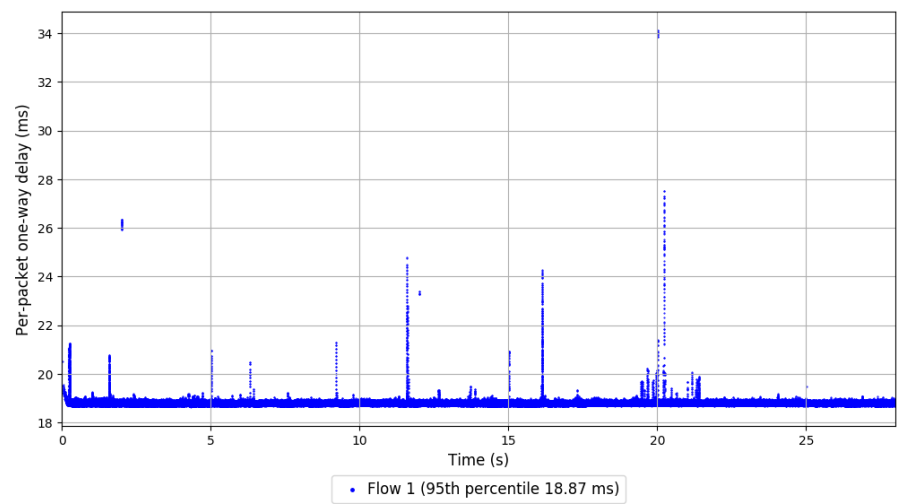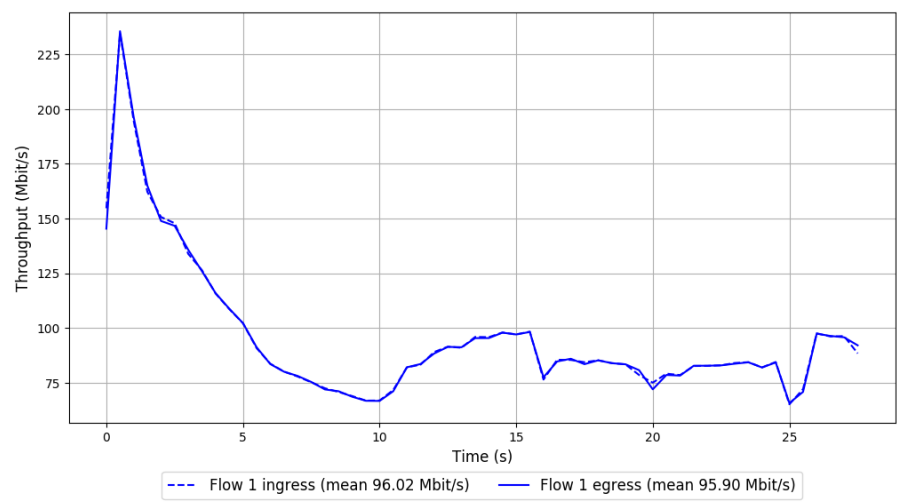Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: 2017-08-29 23:24:19
End at: 2017-08-29 23:24:49
Local clock offset: 0.816 ms
Remote clock offset: -1.527 ms


# Below is generated by plot.py at 2017-08-30 02:19:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 18.873 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 95.90 Mbit/s
95th percentile per-packet one-way delay: 18.873 ms
Loss rate: 0.13%
```

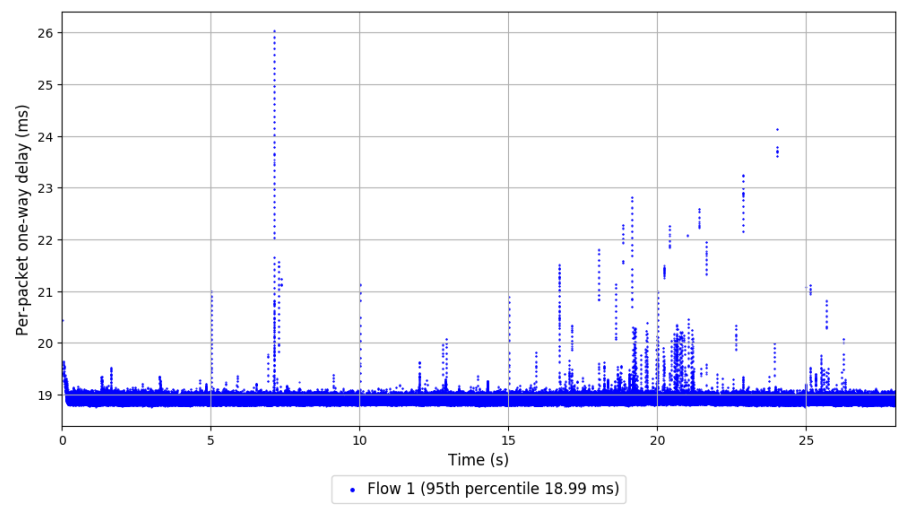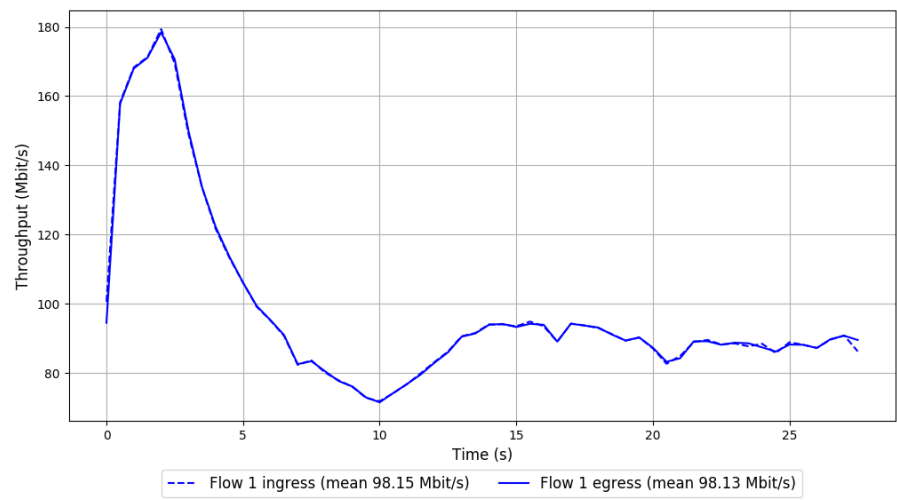# Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: 2017-08-29 23:44:07
End at: 2017-08-29 23:44:37
Local clock offset: 0.614 ms
Remote clock offset: -1.794 ms


# Below is generated by plot.py at 2017-08-30 02:19:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.13 Mbit/s
95th percentile per-packet one-way delay: 18.992 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 98.13 Mbit/s
95th percentile per-packet one-way delay: 18.992 ms
Loss rate: 0.05%
```

Run 9: Report of Copa — Data Link

Flow 1 ingress (mean 98.15 Mbit/s)   Flow 1 egress (mean 98.13 Mbit/s)

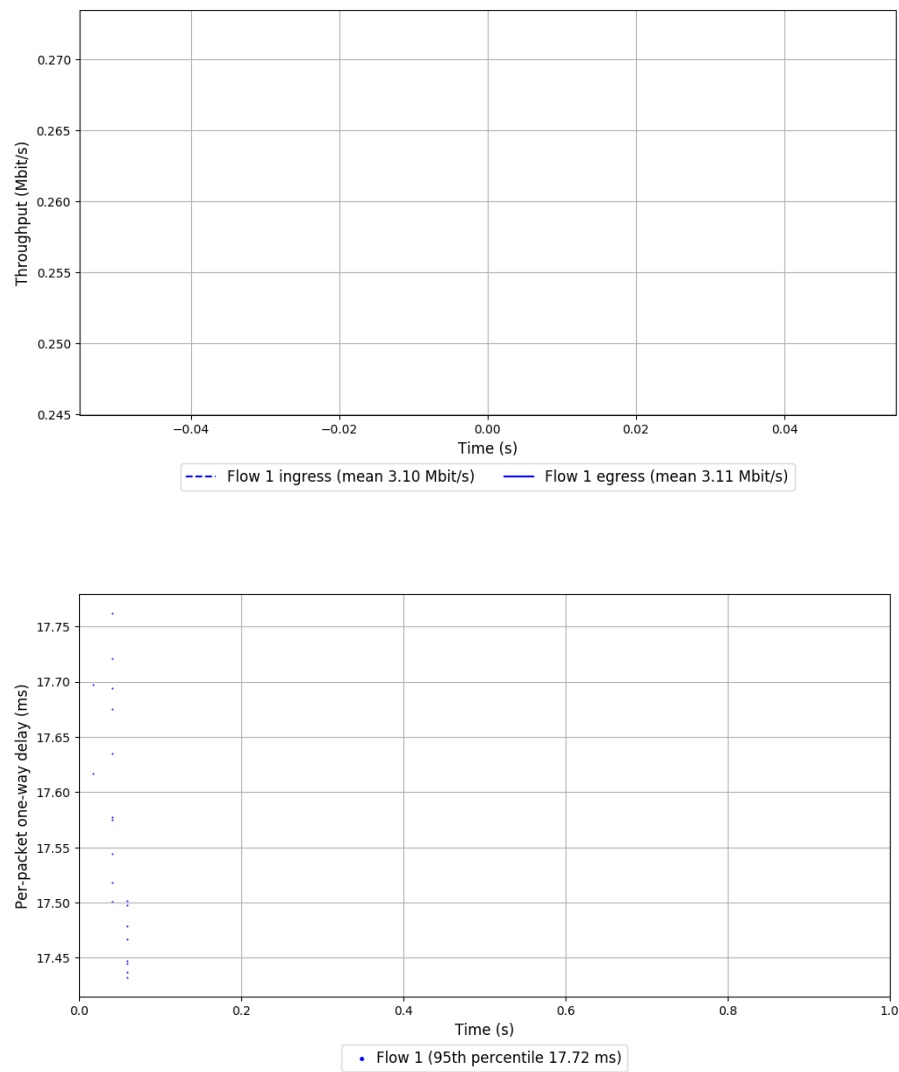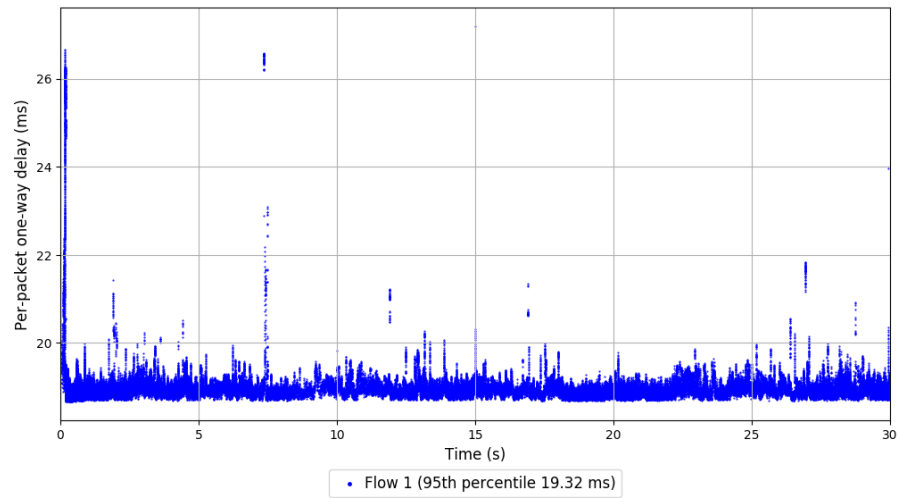Flow 1 (95th percentile 18.99 ms)

```
Run 10: Statistics of Copa

Start at: 2017-08-30 00:03:56
End at: 2017-08-30 00:04:26
Local clock offset: 0.36 ms
Remote clock offset: -1.975 ms
```

Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 3.10 Mbit/s)   Flow 1 egress (mean 3.11 Mbit/s)

Flow 1 (95th percentile 17.72 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-29 21:06:32
End at: 2017-08-29 21:07:03
Local clock offset: 1.801 ms
Remote clock offset: -1.23 ms


# Below is generated by plot.py at 2017-08-30 02:19:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.50 Mbit/s
95th percentile per-packet one-way delay: 19.316 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 35.50 Mbit/s
95th percentile per-packet one-way delay: 19.316 ms
Loss rate: 0.12%
```
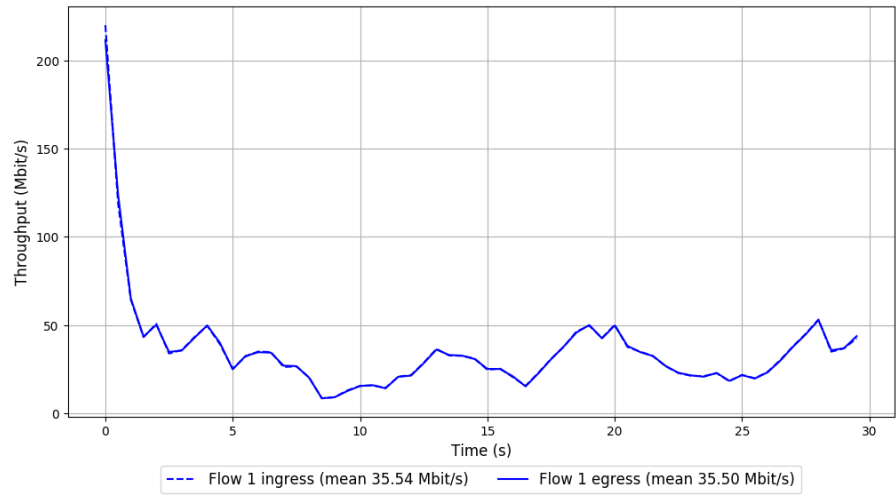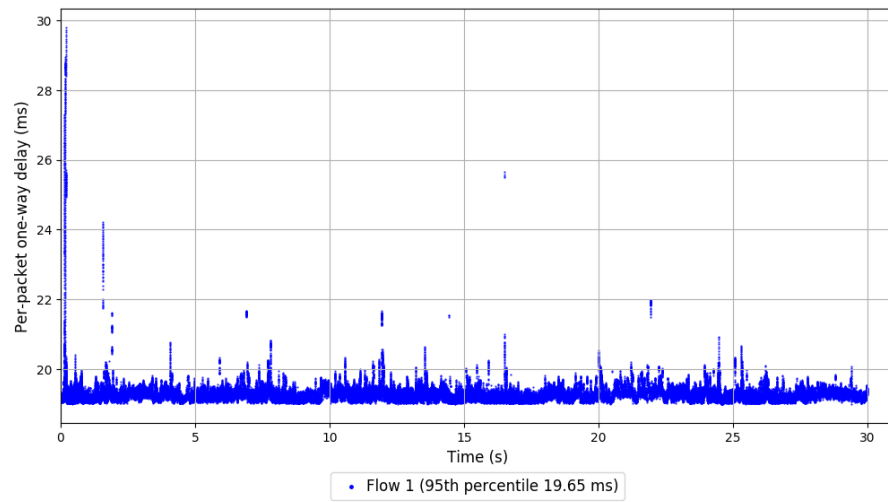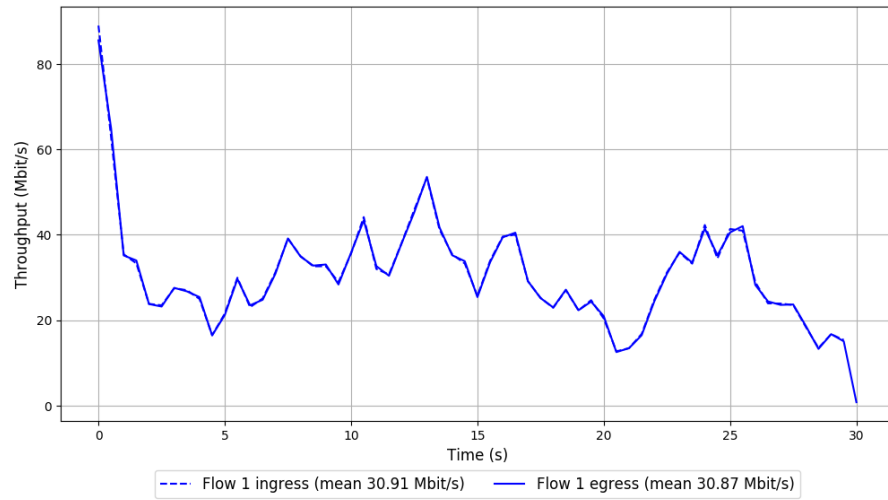
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2017-08-29 21:25:55
End at: 2017-08-29 21:26:25
Local clock offset: 1.503 ms
Remote clock offset: -1.339 ms


# Below is generated by plot.py at 2017-08-30 02:19:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.87 Mbit/s
95th percentile per-packet one-way delay: 19.652 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 30.87 Mbit/s
95th percentile per-packet one-way delay: 19.652 ms
Loss rate: 0.11%
```

Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 30.91 Mbit/s) --- Flow 1 egress (mean 30.87 Mbit/s)

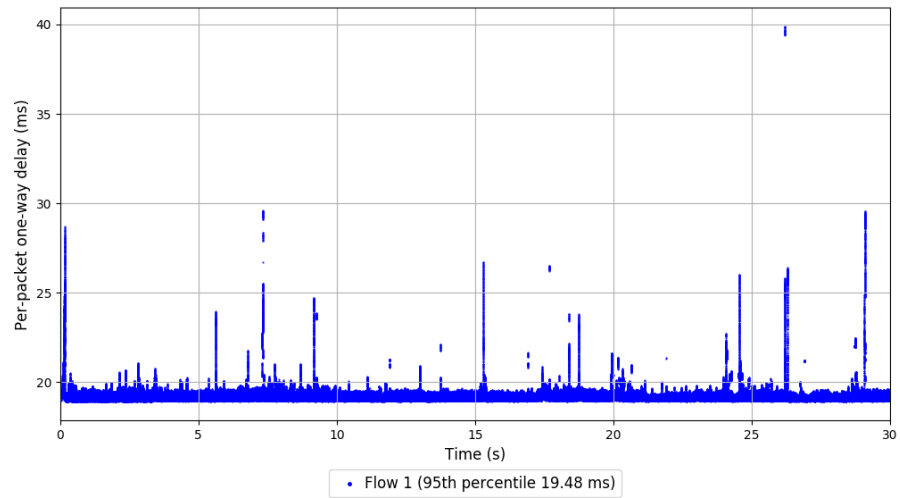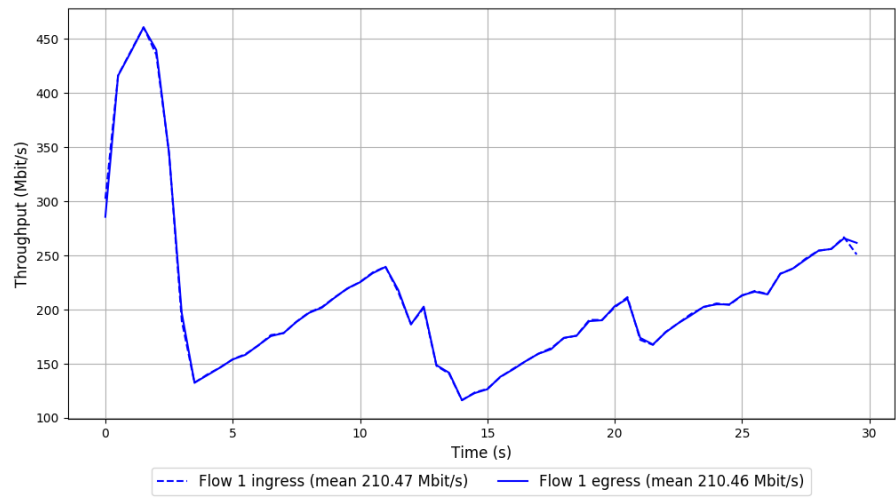Flow 1 (95th percentile 19.65 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2017-08-29 21:45:53
End at: 2017-08-29 21:46:23
Local clock offset: 1.315 ms
Remote clock offset: -1.429 ms


# Below is generated by plot.py at 2017-08-30 02:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.46 Mbit/s
95th percentile per-packet one-way delay: 19.483 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 210.46 Mbit/s
95th percentile per-packet one-way delay: 19.483 ms
Loss rate: 0.01%
```
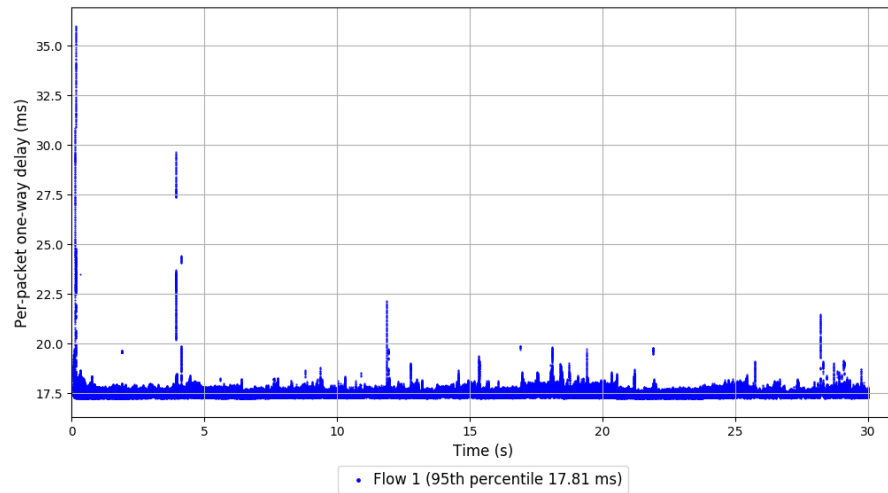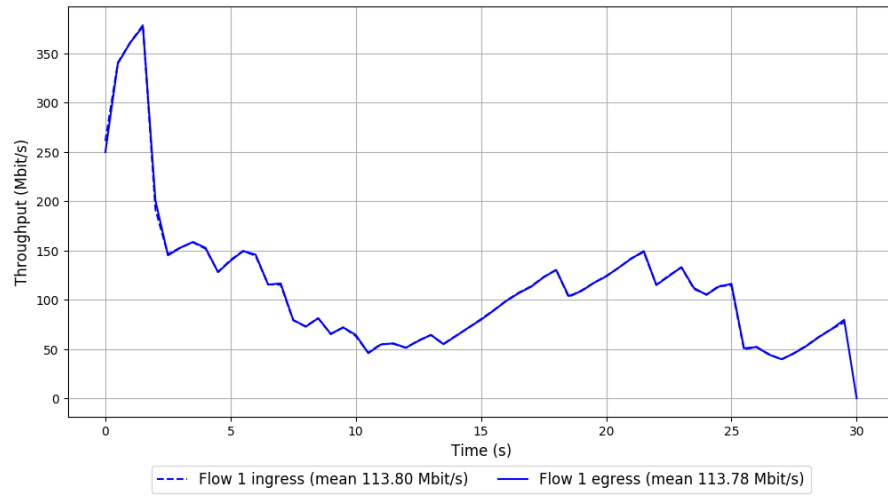
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 210.47 Mbit/s)   Flow 1 egress (mean 210.46 Mbit/s)

Flow 1 (95th percentile 19.48 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2017-08-29 22:06:02
End at: 2017-08-29 22:06:32
Local clock offset: 1.348 ms
Remote clock offset: -1.39 ms


# Below is generated by plot.py at 2017-08-30 02:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 113.78 Mbit/s
95th percentile per-packet one-way delay: 17.807 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 113.78 Mbit/s
95th percentile per-packet one-way delay: 17.807 ms
Loss rate: 0.02%
```
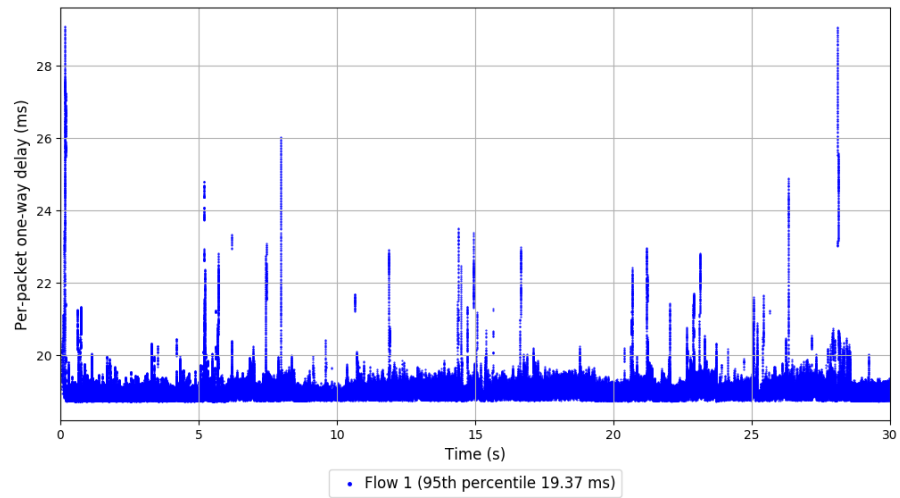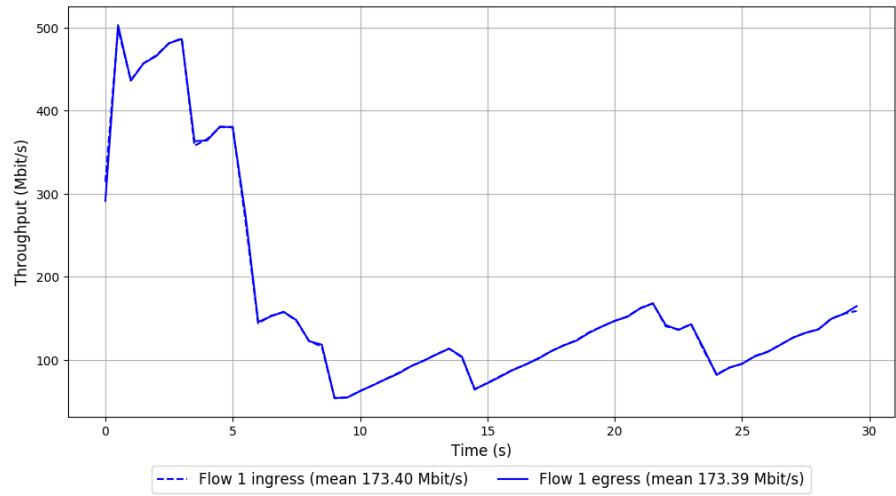
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2017-08-29 22:26:03
End at: 2017-08-29 22:26:33
Local clock offset: 1.23 ms
Remote clock offset: -1.243 ms


# Below is generated by plot.py at 2017-08-30 02:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.39 Mbit/s
95th percentile per-packet one-way delay: 19.374 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 173.39 Mbit/s
95th percentile per-packet one-way delay: 19.374 ms
Loss rate: 0.04%
```
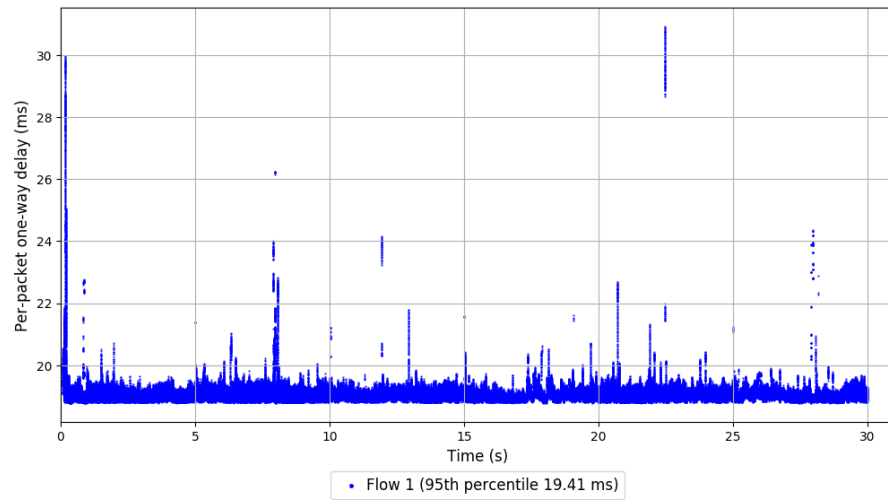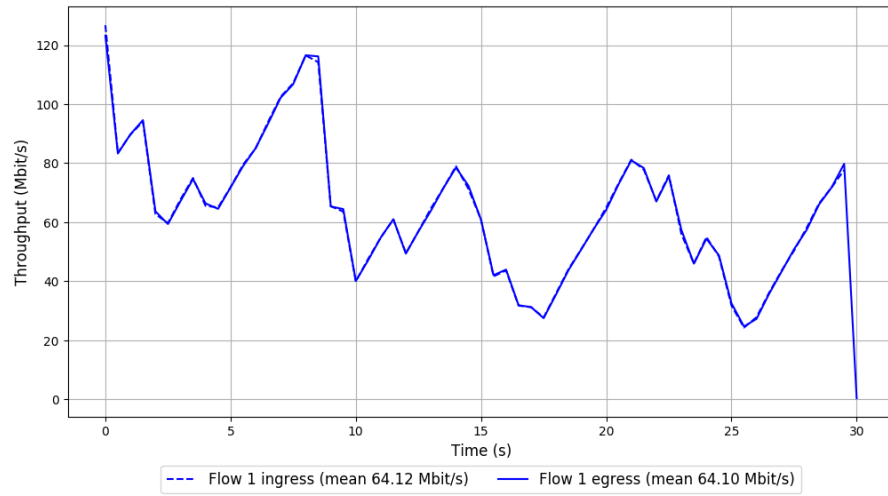
Run 5: Report of TCP Cubic — Data Link

```
Run 6: Statistics of TCP Cubic

Start at: 2017-08-29 22:45:50
End at: 2017-08-29 22:46:20
Local clock offset: 0.966 ms
Remote clock offset: -1.253 ms


# Below is generated by plot.py at 2017-08-30 02:20:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.10 Mbit/s
95th percentile per-packet one-way delay: 19.415 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 64.10 Mbit/s
95th percentile per-packet one-way delay: 19.415 ms
Loss rate: 0.03%
```

Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 64.12 Mbit/s) Flow 1 egress (mean 64.10 Mbit/s)

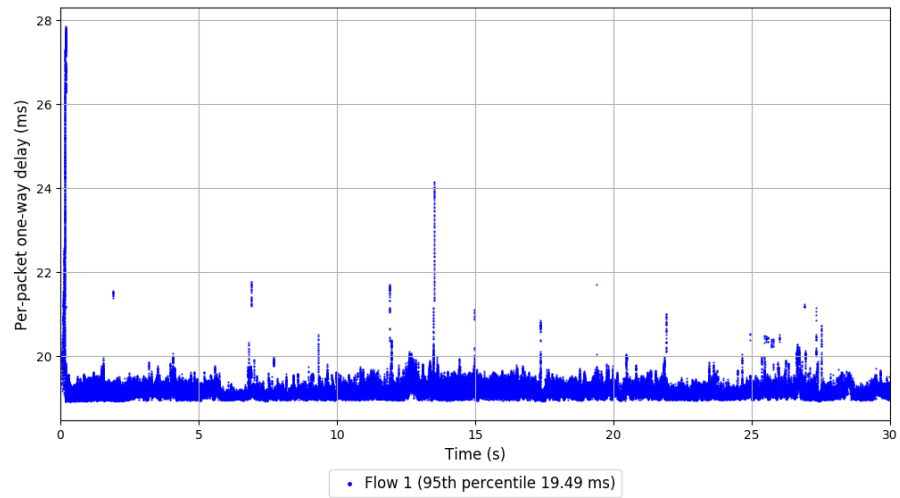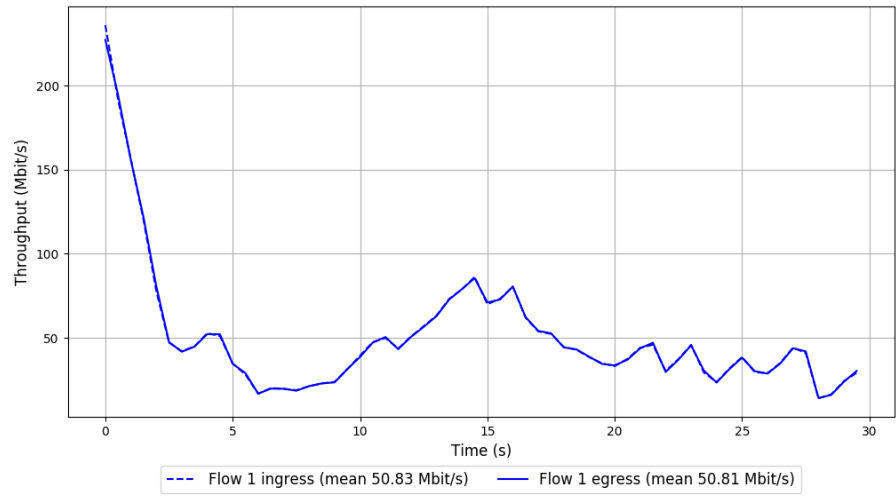Flow 1 (95th percentile 19.41 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2017-08-29 23:05:50
End at: 2017-08-29 23:06:21
Local clock offset: 0.748 ms
Remote clock offset: -1.405 ms


# Below is generated by plot.py at 2017-08-30 02:20:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.81 Mbit/s
95th percentile per-packet one-way delay: 19.488 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 50.81 Mbit/s
95th percentile per-packet one-way delay: 19.488 ms
Loss rate: 0.05%
```
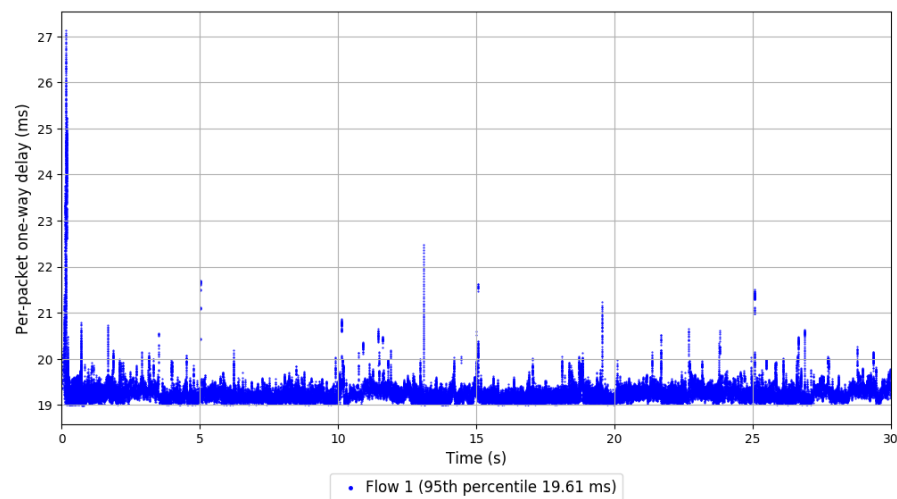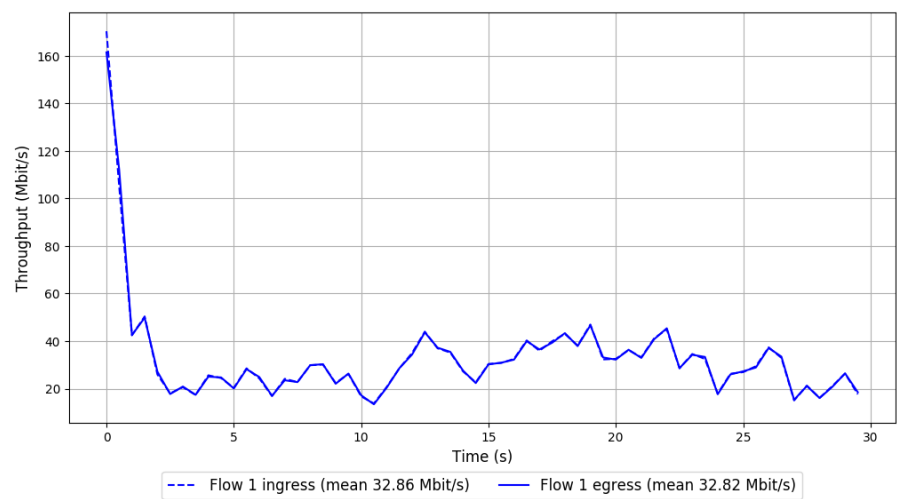
Run 7: Report of TCP Cubic — Data Link

```
Run 8: Statistics of TCP Cubic

Start at: 2017-08-29 23:25:37
End at: 2017-08-29 23:26:07
Local clock offset: 0.716 ms
Remote clock offset: -1.565 ms


# Below is generated by plot.py at 2017-08-30 02:20:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 19.614 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 32.82 Mbit/s
95th percentile per-packet one-way delay: 19.614 ms
Loss rate: 0.12%
```

Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 32.86 Mbit/s)   Flow 1 egress (mean 32.82 Mbit/s)

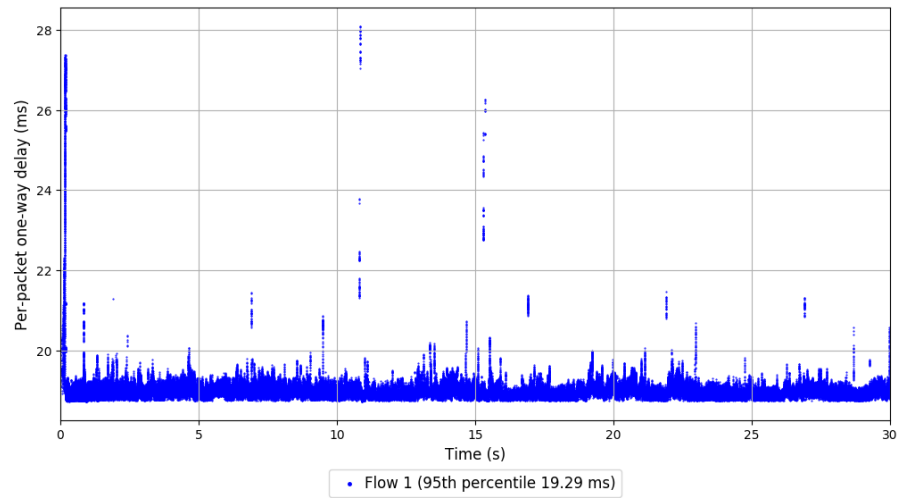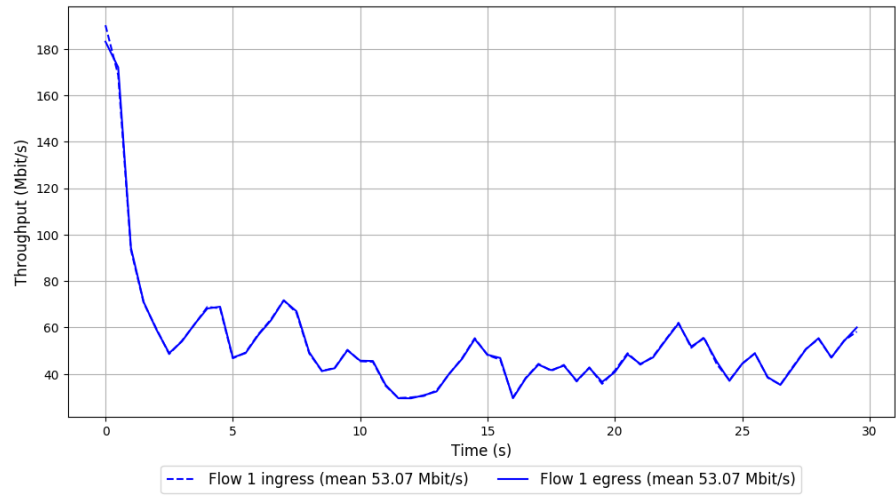Flow 1 (95th percentile 19.61 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2017-08-29 23:45:25
End at: 2017-08-29 23:45:55
Local clock offset: 0.495 ms
Remote clock offset: -1.743 ms


# Below is generated by plot.py at 2017-08-30 02:20:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.07 Mbit/s
95th percentile per-packet one-way delay: 19.290 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 53.07 Mbit/s
95th percentile per-packet one-way delay: 19.290 ms
Loss rate: 0.04%
```
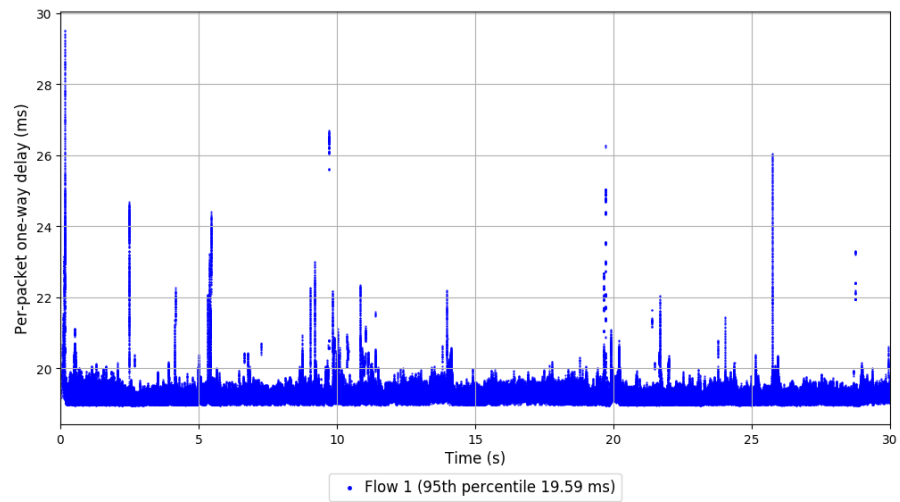
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 53.07 Mbit/s)   Flow 1 egress (mean 53.07 Mbit/s)

Flow 1 (95th percentile 19.29 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2017-08-30 00:05:06
End at: 2017-08-30 00:05:36
Local clock offset: 0.361 ms
Remote clock offset: -1.997 ms


# Below is generated by plot.py at 2017-08-30 02:20:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.82 Mbit/s
95th percentile per-packet one-way delay: 19.589 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 151.82 Mbit/s
95th percentile per-packet one-way delay: 19.589 ms
Loss rate: 0.01%
```
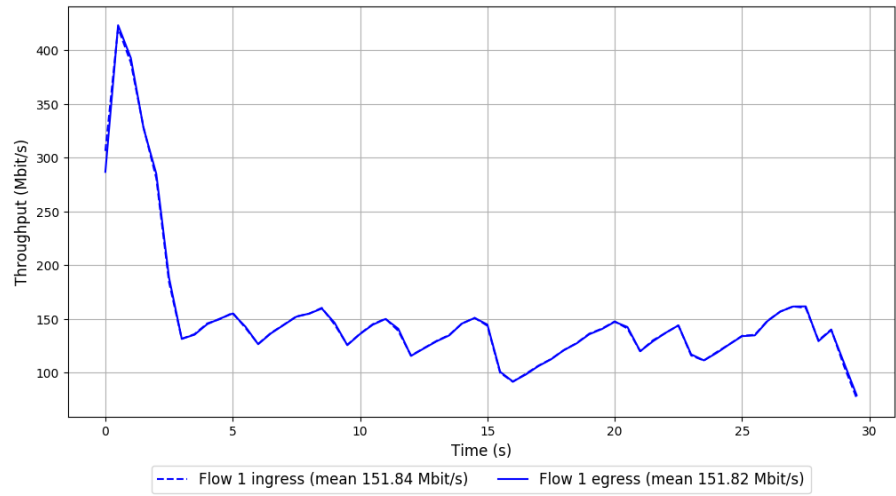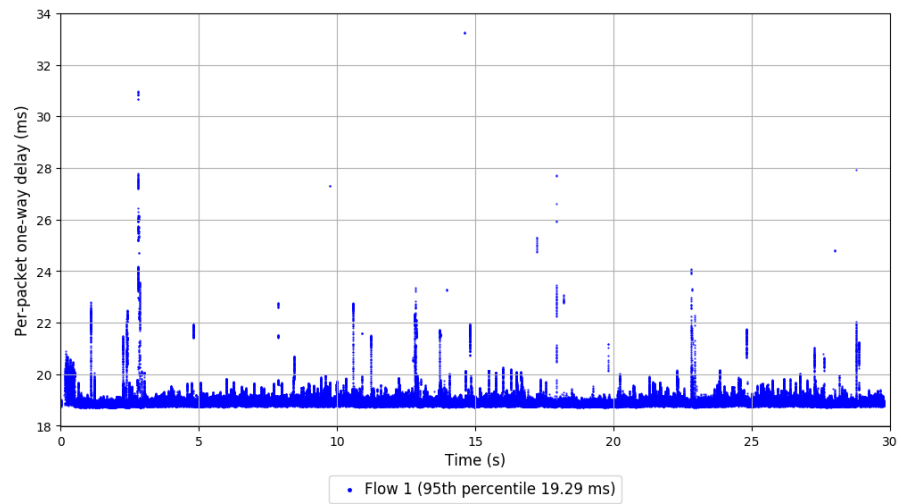
Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of Indigo

Start at: 2017-08-29 21:00:02
End at: 2017-08-29 21:00:32
Local clock offset: 1.897 ms
Remote clock offset: -1.035 ms


# Below is generated by plot.py at 2017-08-30 02:20:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.66 Mbit/s
95th percentile per-packet one-way delay: 19.294 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 75.66 Mbit/s
95th percentile per-packet one-way delay: 19.294 ms
Loss rate: 0.07%
```
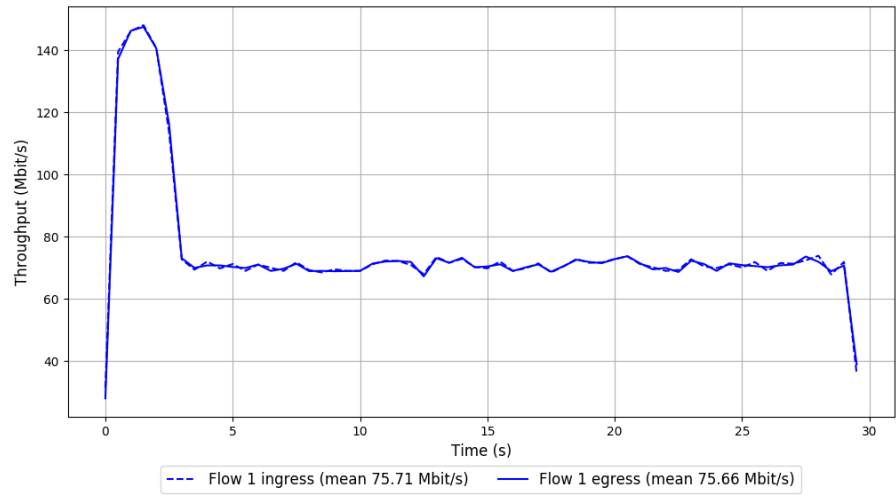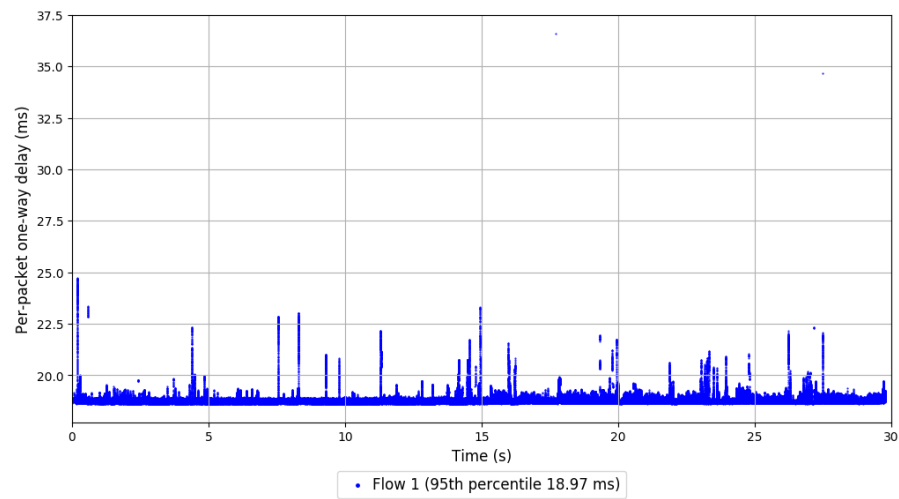
Run 1: Report of Indigo — Data Link

Flow 1 ingress (mean 75.71 Mbit/s) --- Flow 1 egress (mean 75.66 Mbit/s)

Flow 1 (95th percentile 19.29 ms)

```
Run 2: Statistics of Indigo

Start at: 2017-08-29 21:19:23
End at: 2017-08-29 21:19:53
Local clock offset: 1.686 ms
Remote clock offset: -1.373 ms


# Below is generated by plot.py at 2017-08-30 02:21:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.08 Mbit/s
95th percentile per-packet one-way delay: 18.967 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 147.08 Mbit/s
95th percentile per-packet one-way delay: 18.967 ms
Loss rate: 0.07%
```
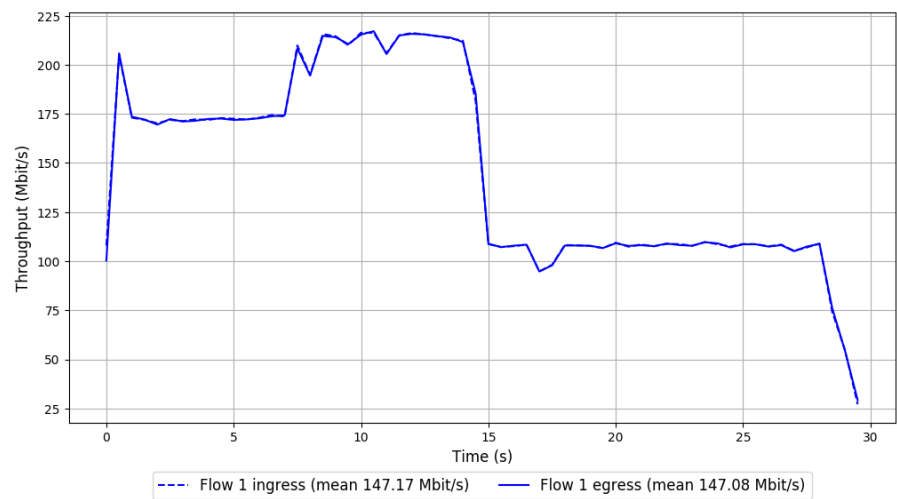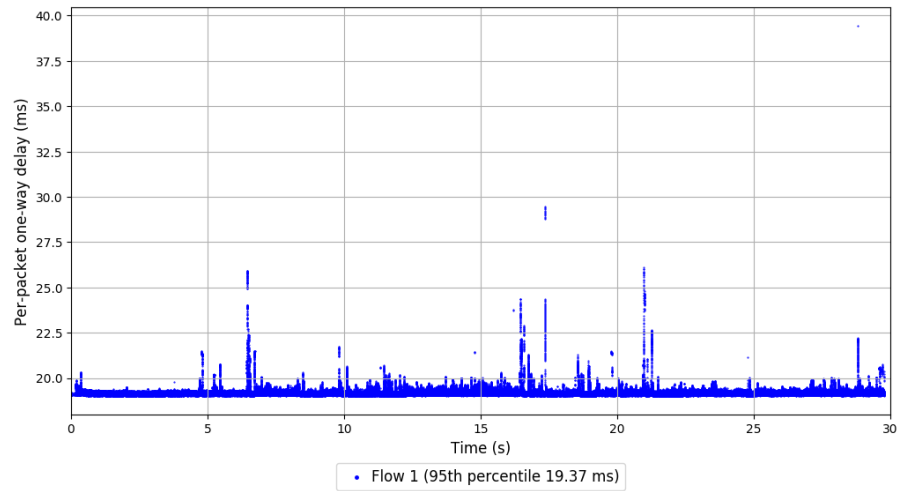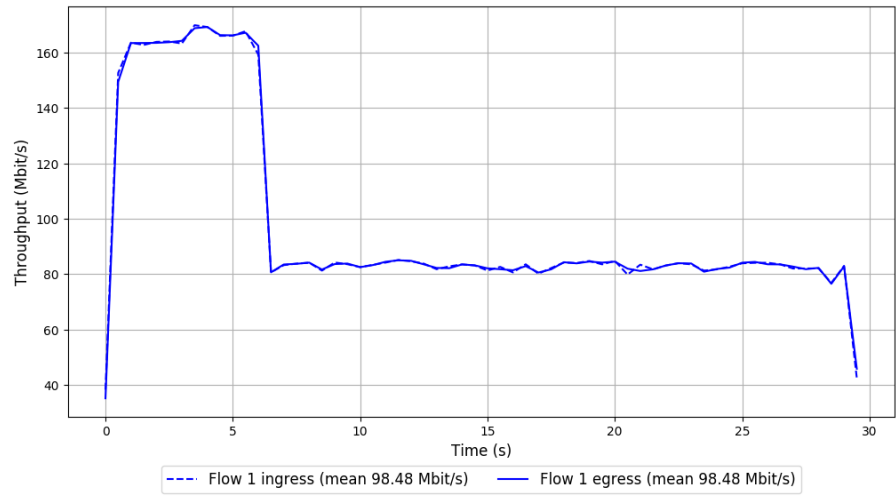
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2017-08-29 21:39:13
End at: 2017-08-29 21:39:43
Local clock offset: 1.361 ms
Remote clock offset: -1.297 ms


# Below is generated by plot.py at 2017-08-30 02:21:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.48 Mbit/s
95th percentile per-packet one-way delay: 19.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 98.48 Mbit/s
95th percentile per-packet one-way delay: 19.369 ms
Loss rate: 0.00%
```
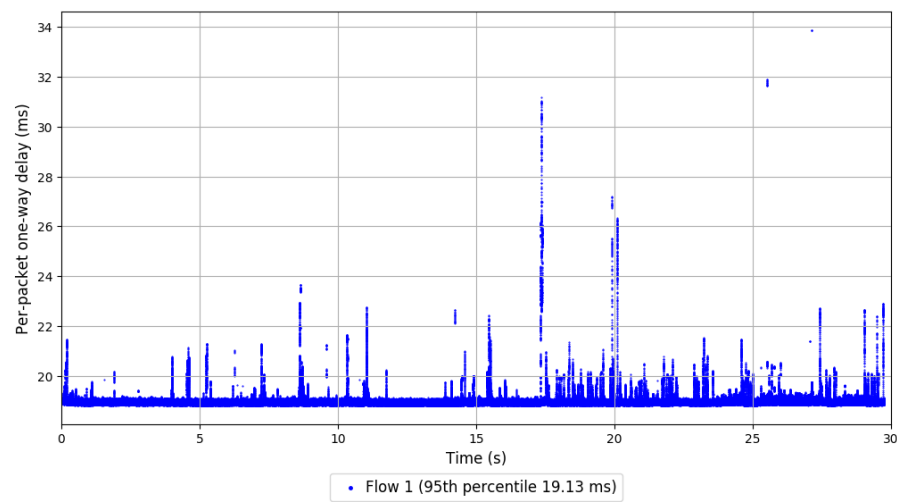
Run 3: Report of Indigo — Data Link

Flow 1 ingress (mean 98.48 Mbit/s) ----- Flow 1 egress (mean 98.48 Mbit/s) ——

• Flow 1 (95th percentile 19.37 ms)

```
Run 4: Statistics of Indigo

Start at: 2017-08-29 21:59:23
End at: 2017-08-29 21:59:53
Local clock offset: 1.356 ms
Remote clock offset: -1.472 ms


# Below is generated by plot.py at 2017-08-30 02:21:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.34 Mbit/s
95th percentile per-packet one-way delay: 19.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.34 Mbit/s
95th percentile per-packet one-way delay: 19.126 ms
Loss rate: 0.00%
```
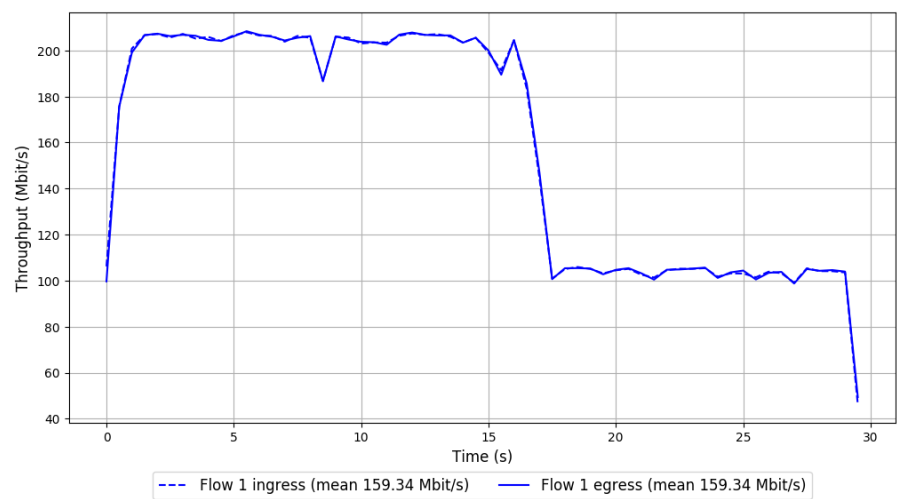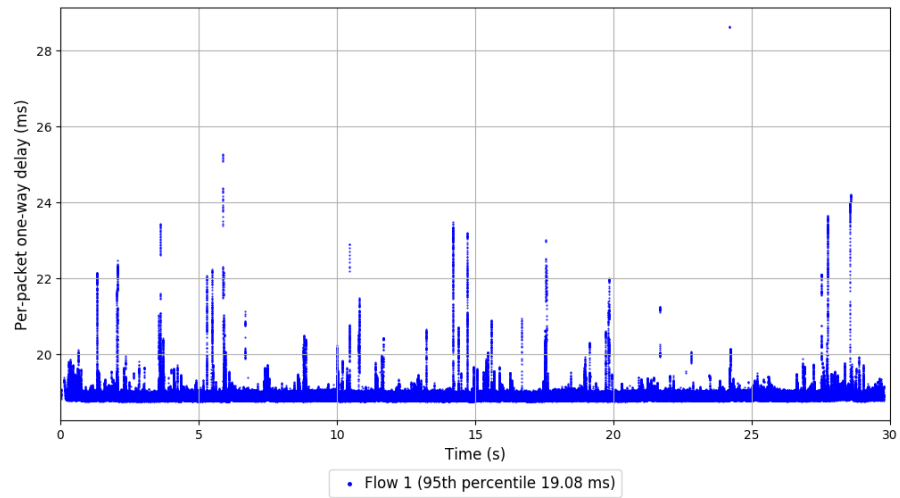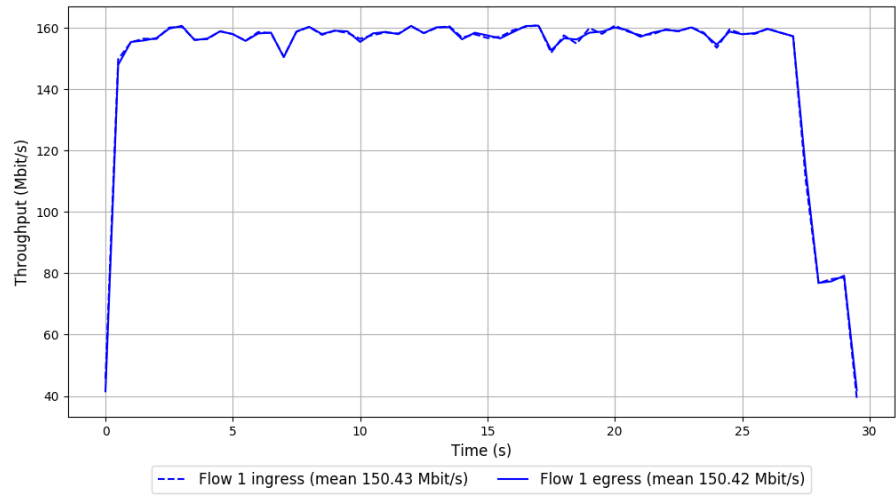
Run 4: Report of Indigo — Data Link

```
Run 5: Statistics of Indigo

Start at: 2017-08-29 22:19:25
End at: 2017-08-29 22:19:55
Local clock offset: 1.242 ms
Remote clock offset: -1.224 ms


# Below is generated by plot.py at 2017-08-30 02:21:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.42 Mbit/s
95th percentile per-packet one-way delay: 19.079 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 150.42 Mbit/s
95th percentile per-packet one-way delay: 19.079 ms
Loss rate: 0.01%
```

Run 5: Report of Indigo — Data Link

```
Run 6: Statistics of Indigo

Start at: 2017-08-29 22:39:16
End at: 2017-08-29 22:39:46
Local clock offset: 1.129 ms
Remote clock offset: -1.329 ms


# Below is generated by plot.py at 2017-08-30 02:21:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.40 Mbit/s
95th percentile per-packet one-way delay: 19.212 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 114.40 Mbit/s
95th percentile per-packet one-way delay: 19.212 ms
Loss rate: 0.04%
```
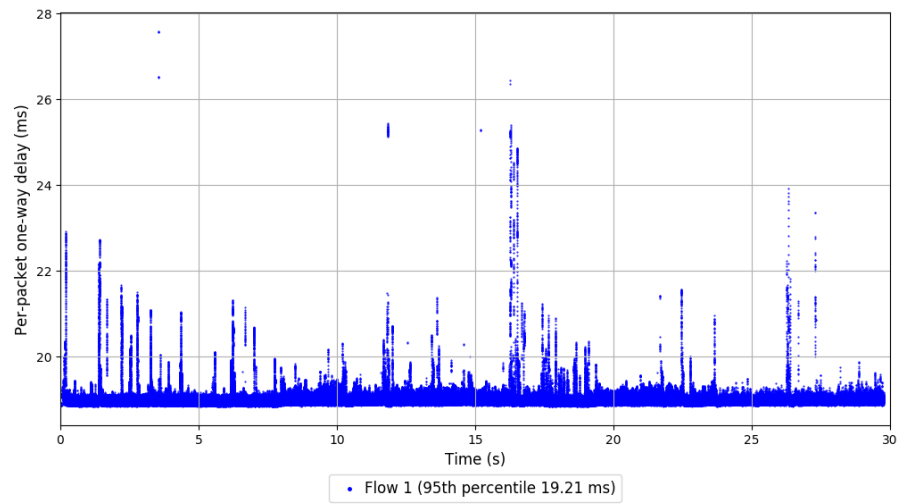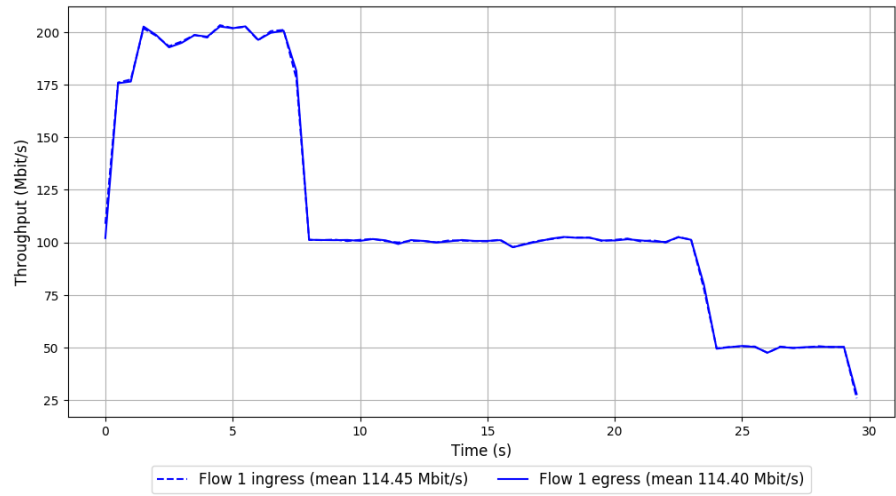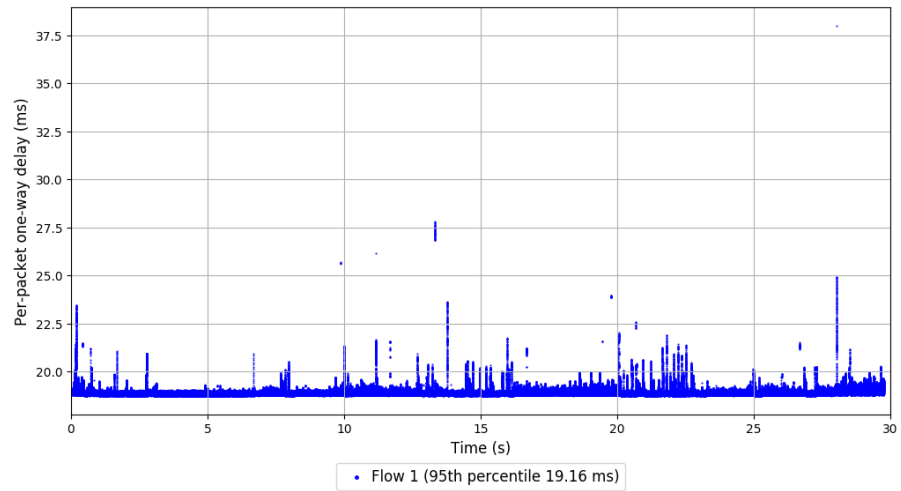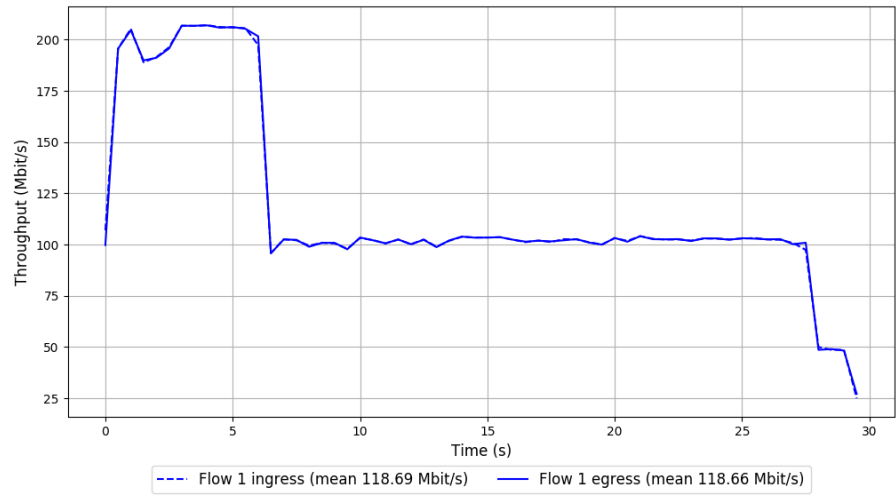
Run 6: Report of Indigo — Data Link

95

```
Run 7: Statistics of Indigo

Start at: 2017-08-29 22:59:12
End at: 2017-08-29 22:59:42
Local clock offset: 0.756 ms
Remote clock offset: -1.346 ms


# Below is generated by plot.py at 2017-08-30 02:21:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 118.66 Mbit/s
95th percentile per-packet one-way delay: 19.160 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 118.66 Mbit/s
95th percentile per-packet one-way delay: 19.160 ms
Loss rate: 0.02%
```

Run 7: Report of Indigo — Data Link

```
Run 8: Statistics of Indigo

Start at: 2017-08-29 23:19:04
End at: 2017-08-29 23:19:34
Local clock offset: 0.844 ms
Remote clock offset: -1.445 ms


# Below is generated by plot.py at 2017-08-30 02:21:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 103.41 Mbit/s
95th percentile per-packet one-way delay: 19.017 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 103.41 Mbit/s
95th percentile per-packet one-way delay: 19.017 ms
Loss rate: 0.12%
```
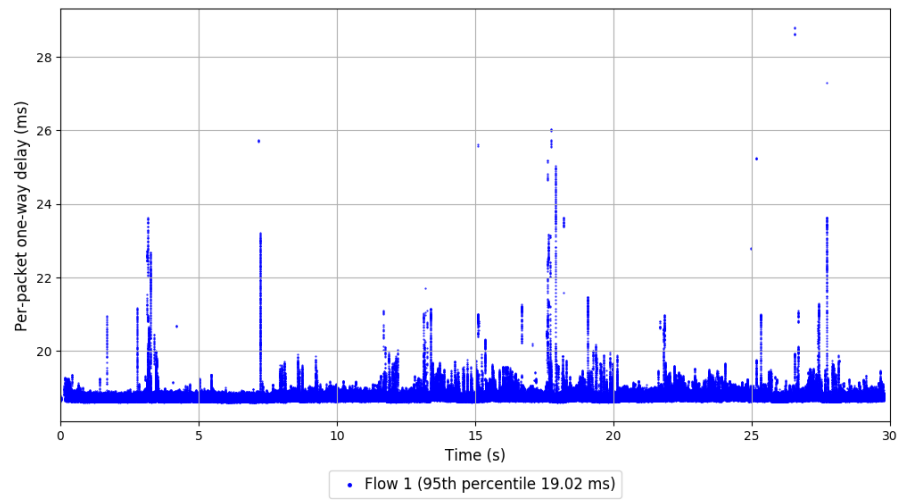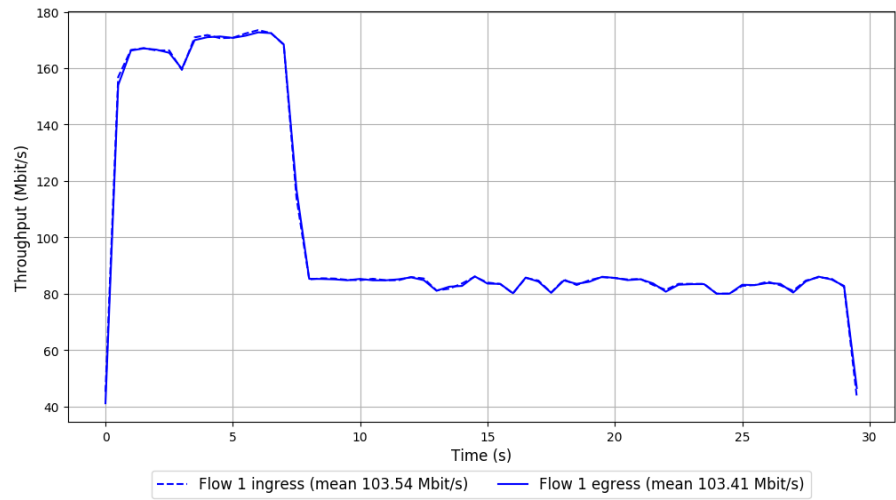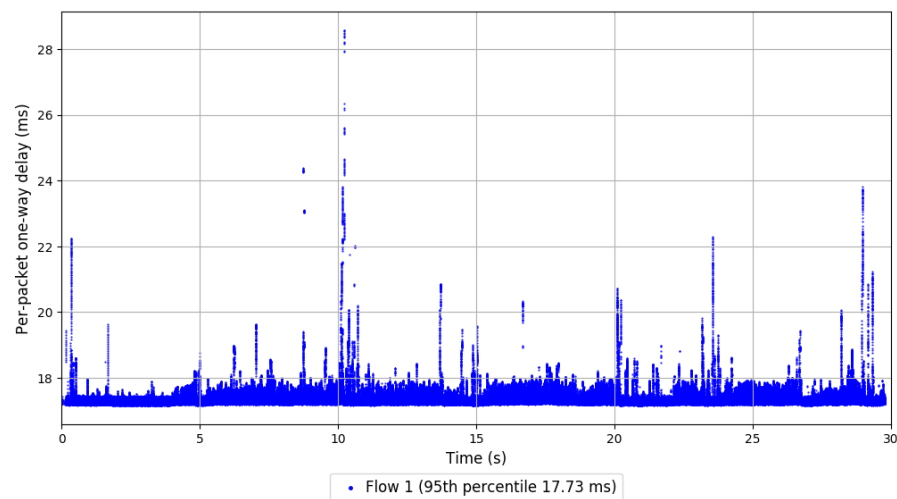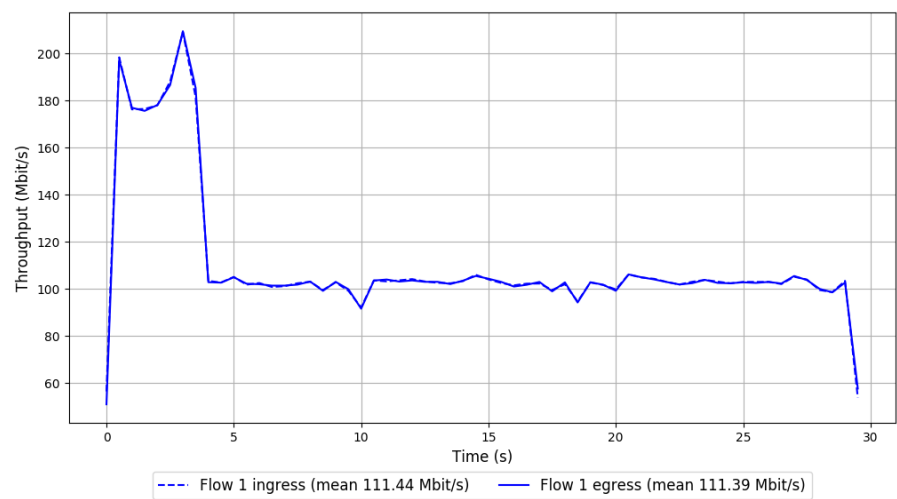
Run 8: Report of Indigo — Data Link

```
Run 9: Statistics of Indigo

Start at: 2017-08-29 23:38:50
End at: 2017-08-29 23:39:21
Local clock offset: 0.67 ms
Remote clock offset: -1.798 ms


# Below is generated by plot.py at 2017-08-30 02:21:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.39 Mbit/s
95th percentile per-packet one-way delay: 17.727 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 111.39 Mbit/s
95th percentile per-packet one-way delay: 17.727 ms
Loss rate: 0.05%
```

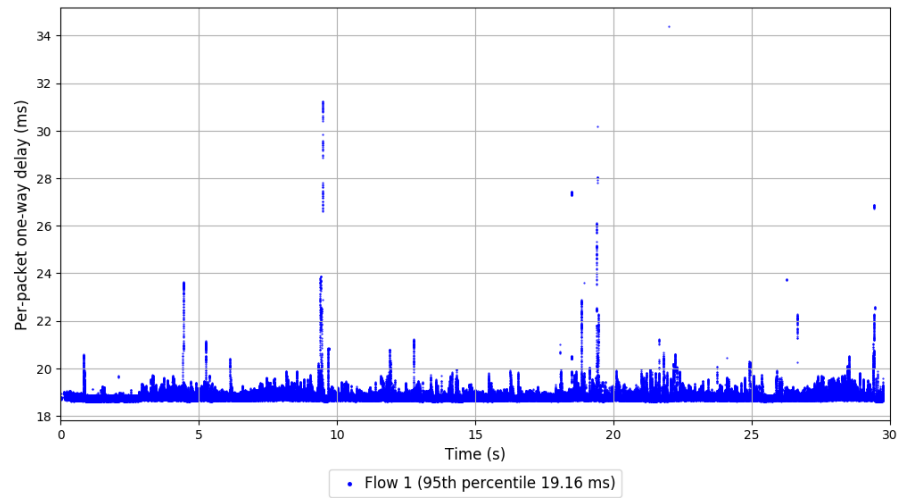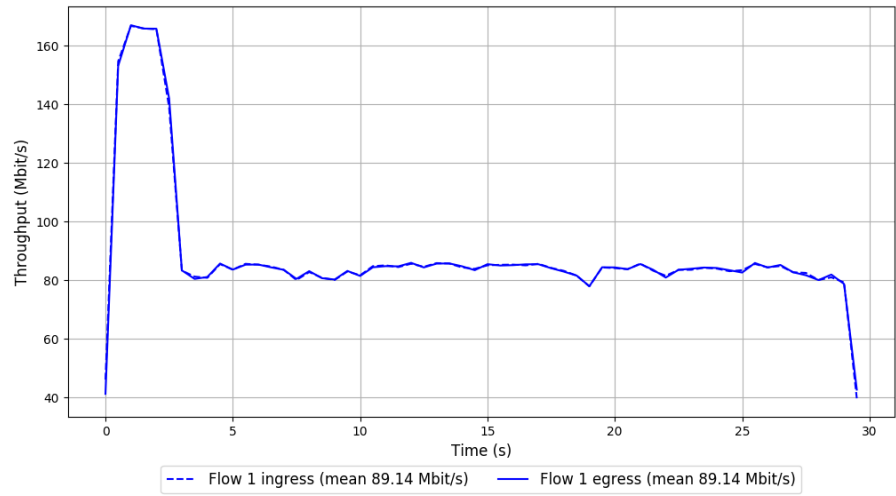Run 9: Report of Indigo — Data Link

```
Run 10: Statistics of Indigo

Start at: 2017-08-29 23:58:41
End at: 2017-08-29 23:59:11
Local clock offset: 0.496 ms
Remote clock offset: -2.048 ms


# Below is generated by plot.py at 2017-08-30 02:22:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 19.160 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 89.14 Mbit/s
95th percentile per-packet one-way delay: 19.160 ms
Loss rate: 0.01%
```

Run 10: Report of Indigo — Data Link

Flow 1 ingress (mean 89.14 Mbit/s) --- Flow 1 egress (mean 89.14 Mbit/s)
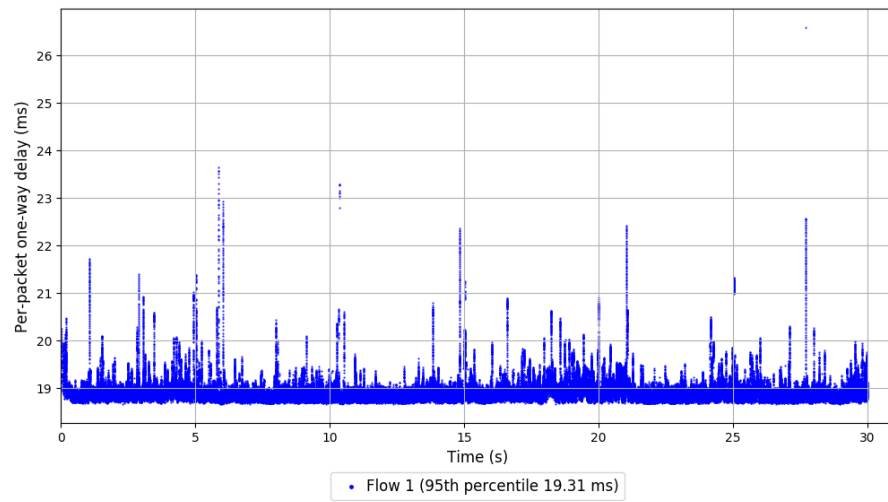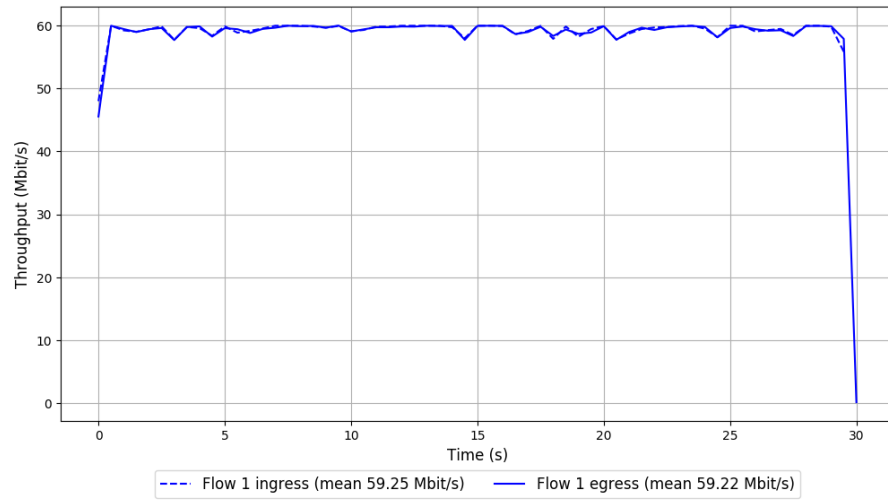

• Flow 1 (95th percentile 19.16 ms)

```
Run 1: Statistics of KohoCC

Start at: 2017-08-29 20:52:09
End at: 2017-08-29 20:52:39
Local clock offset: 2.066 ms
Remote clock offset: -1.146 ms


# Below is generated by plot.py at 2017-08-30 02:22:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 19.314 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 59.22 Mbit/s
95th percentile per-packet one-way delay: 19.314 ms
Loss rate: 0.06%
```

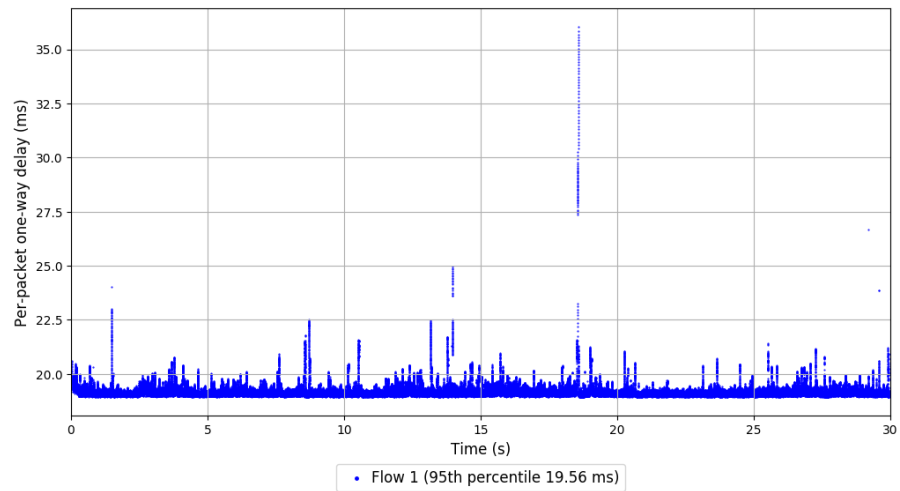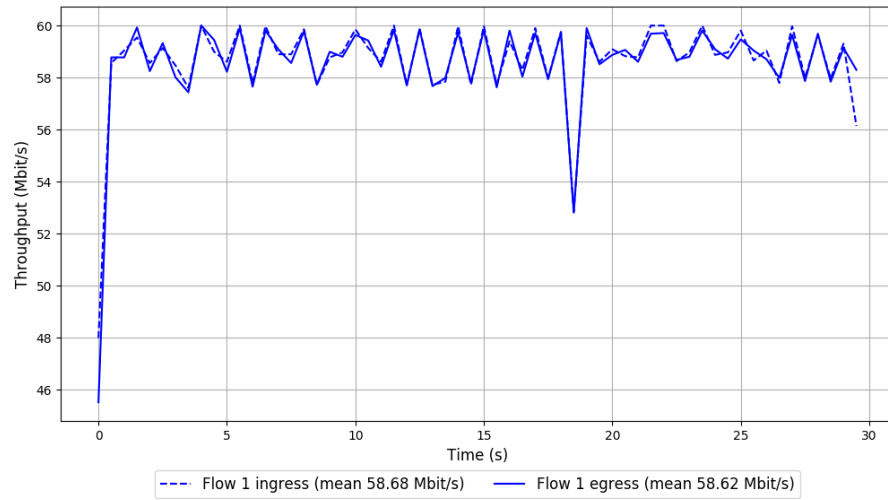Run 1: Report of KohoCC — Data Link

```
Run 2: Statistics of KohoCC

Start at: 2017-08-29 21:11:46
End at: 2017-08-29 21:12:16
Local clock offset: 1.696 ms
Remote clock offset: -1.327 ms


# Below is generated by plot.py at 2017-08-30 02:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.62 Mbit/s
95th percentile per-packet one-way delay: 19.563 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 58.62 Mbit/s
95th percentile per-packet one-way delay: 19.563 ms
Loss rate: 0.11%
```

Run 2: Report of KohoCC — Data Link

Flow 1 ingress (mean 58.68 Mbit/s)   Flow 1 egress (mean 58.62 Mbit/s)

Flow 1 (95th percentile 19.56 ms)

```
Run 3: Statistics of KohoCC

Start at: 2017-08-29 21:31:14
End at: 2017-08-29 21:31:44
Local clock offset: 1.563 ms
Remote clock offset: -1.32 ms


# Below is generated by plot.py at 2017-08-30 02:22:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.04 Mbit/s
95th percentile per-packet one-way delay: 17.863 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 64.04 Mbit/s
95th percentile per-packet one-way delay: 17.863 ms
Loss rate: 0.03%
```
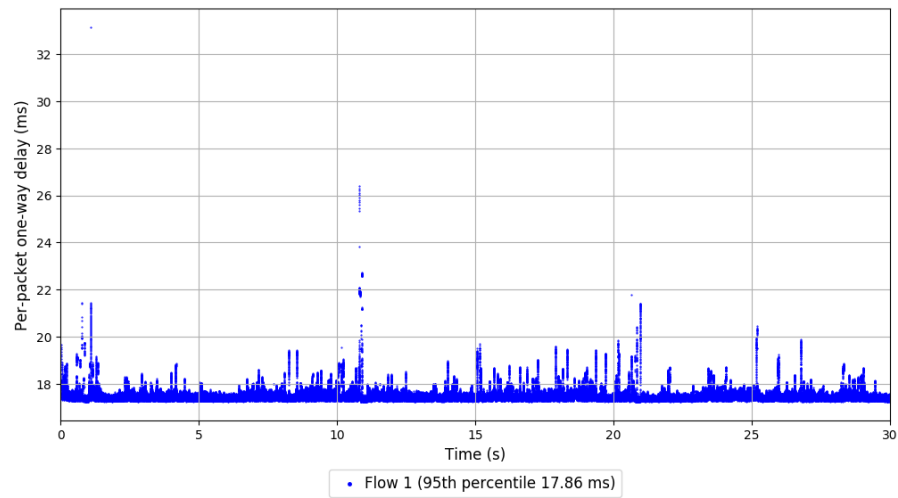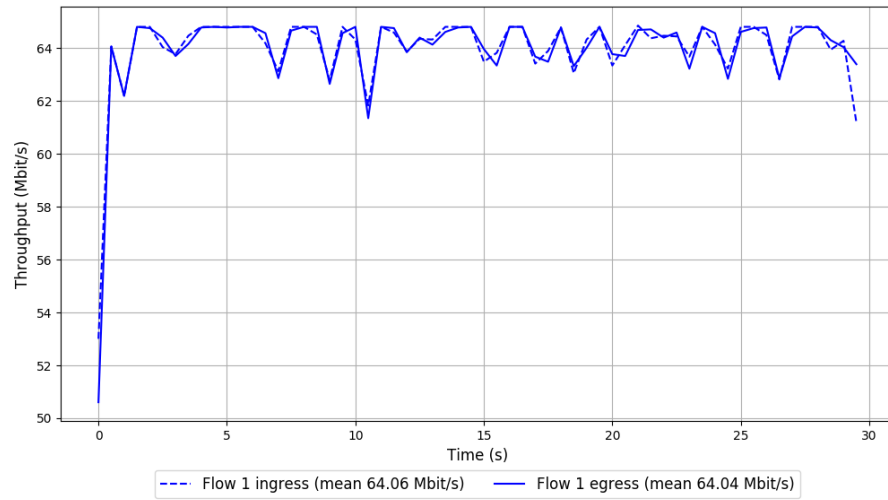
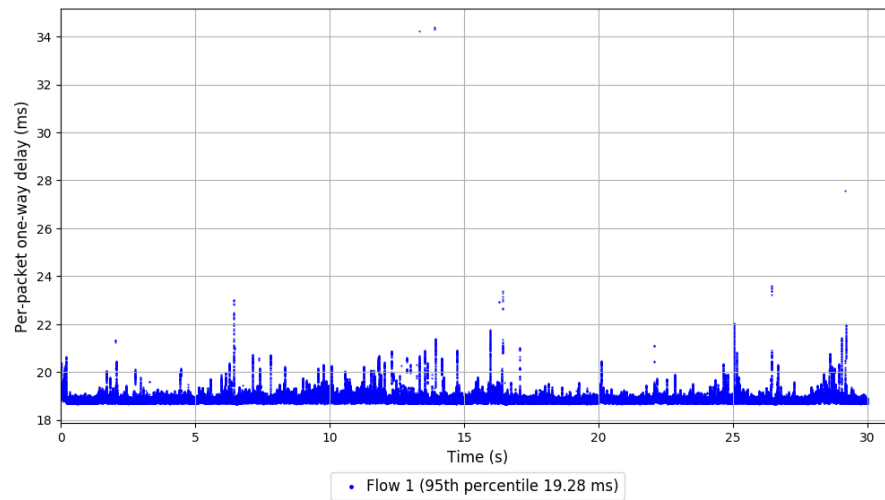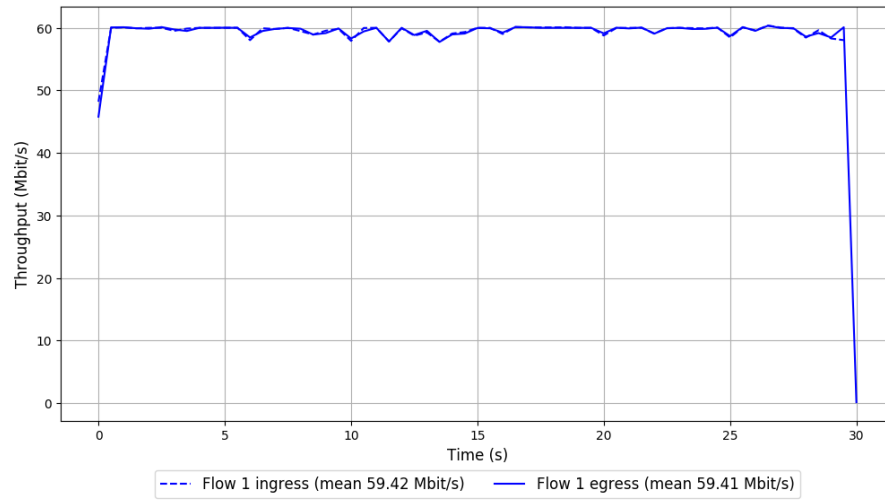# Run 3: Report of KohoCC — Data Link

```
Run 4: Statistics of KohoCC

Start at: 2017-08-29 21:51:18
End at: 2017-08-29 21:51:48
Local clock offset: 1.375 ms
Remote clock offset: -1.402 ms


# Below is generated by plot.py at 2017-08-30 02:22:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 19.277 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 19.277 ms
Loss rate: 0.01%
```

Run 4: Report of KohoCC — Data Link

Flow 1 ingress (mean 59.42 Mbit/s)   Flow 1 egress (mean 59.41 Mbit/s)
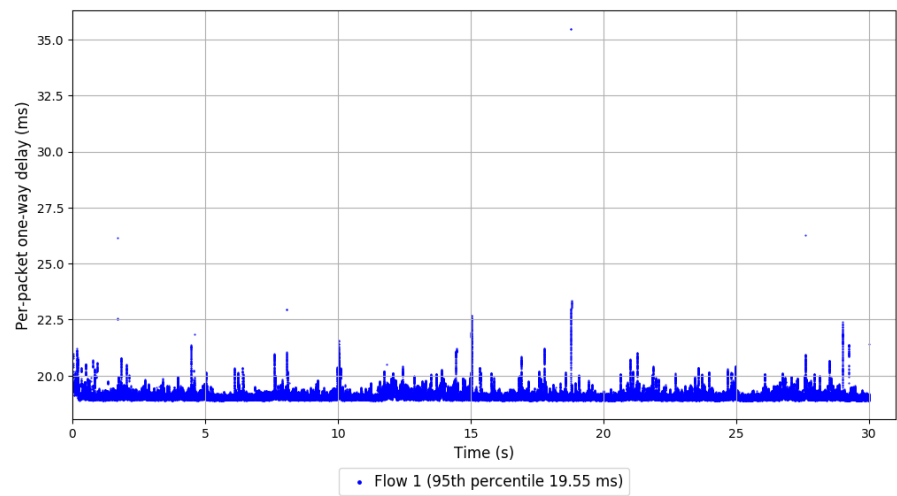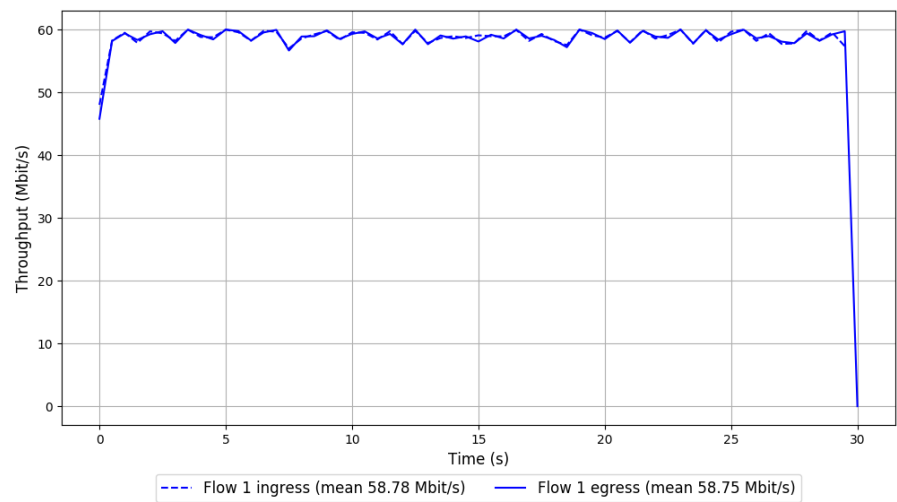

Flow 1 (95th percentile 19.28 ms)

```
Run 5: Statistics of KohoCC

Start at: 2017-08-29 22:11:22
End at: 2017-08-29 22:11:52
Local clock offset: 1.364 ms
Remote clock offset: -1.324 ms


# Below is generated by plot.py at 2017-08-30 02:22:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.75 Mbit/s
95th percentile per-packet one-way delay: 19.550 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 58.75 Mbit/s
95th percentile per-packet one-way delay: 19.550 ms
Loss rate: 0.04%
```

Run 5: Report of KohoCC — Data Link

```
Run 6: Statistics of KohoCC

Start at: 2017-08-29 22:31:24
End at: 2017-08-29 22:31:54
Local clock offset: 1.237 ms
Remote clock offset: -1.26 ms


# Below is generated by plot.py at 2017-08-30 02:22:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.13 Mbit/s
95th percentile per-packet one-way delay: 17.798 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 64.13 Mbit/s
95th percentile per-packet one-way delay: 17.798 ms
Loss rate: 0.01%
```
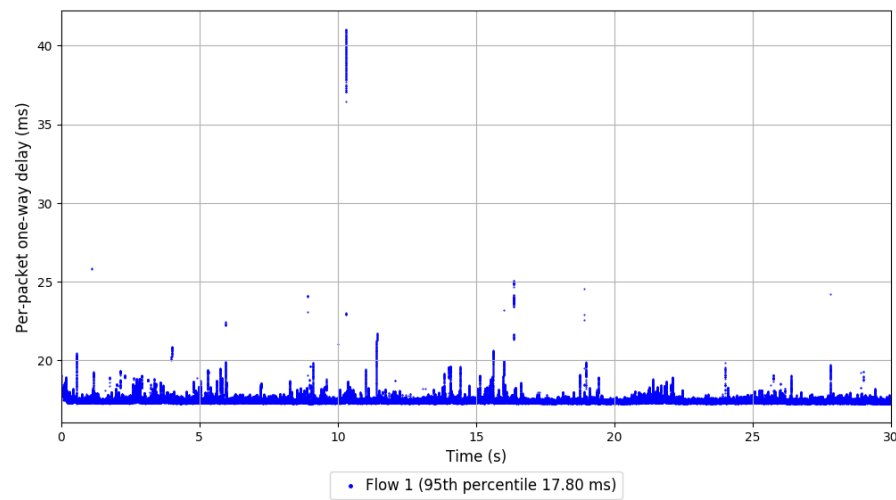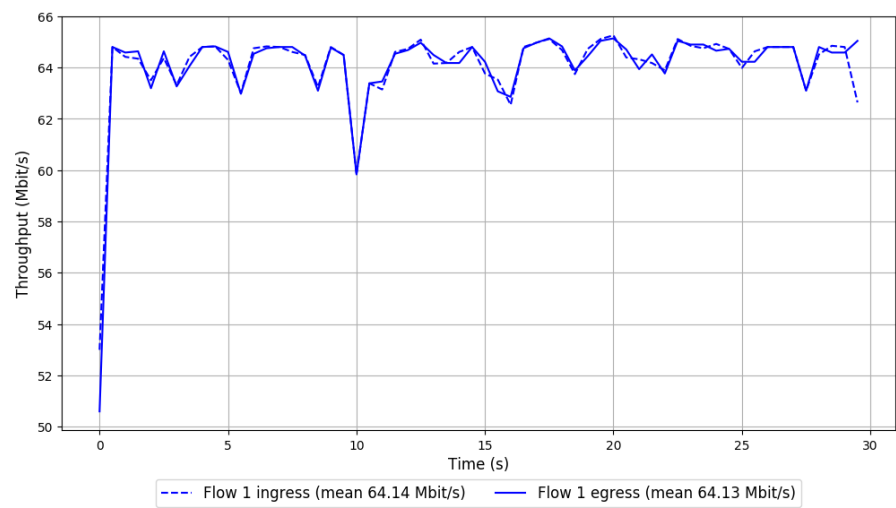
Run 6: Report of KohoCC — Data Link

Flow 1 ingress (mean 64.14 Mbit/s) — Flow 1 egress (mean 64.13 Mbit/s)

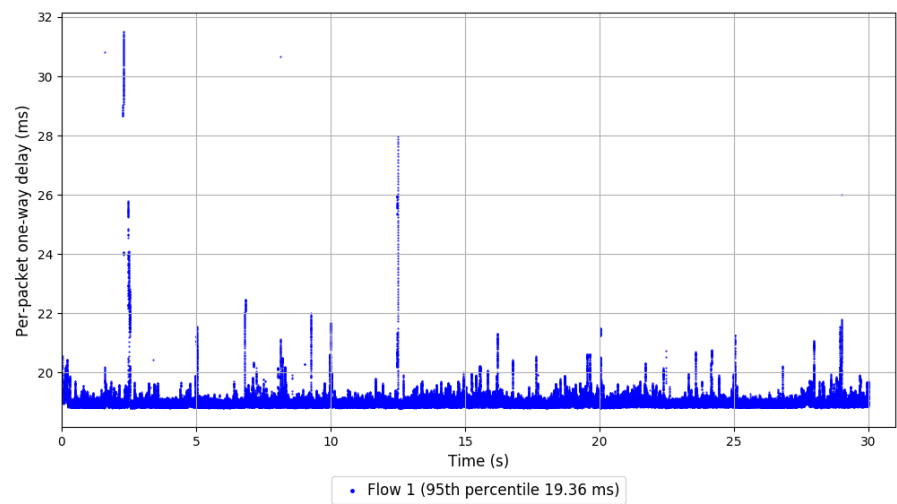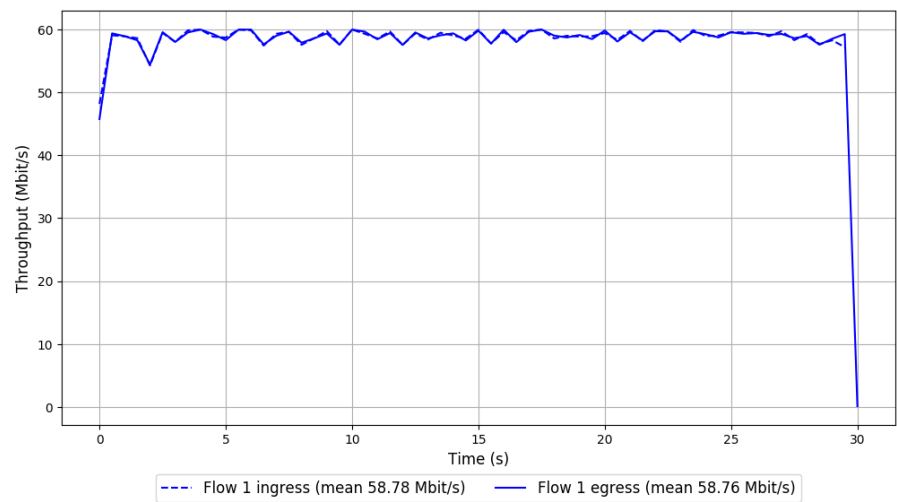

Flow 1 (95th percentile 17.80 ms)

```
Run 7: Statistics of KohoCC

Start at: 2017-08-29 22:51:10
End at: 2017-08-29 22:51:40
Local clock offset: 0.989 ms
Remote clock offset: -1.344 ms


# Below is generated by plot.py at 2017-08-30 02:22:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 19.361 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 58.76 Mbit/s
95th percentile per-packet one-way delay: 19.361 ms
Loss rate: 0.04%
```

Run 7: Report of KohoCC — Data Link

Flow 1 ingress (mean 58.78 Mbit/s)   Flow 1 egress (mean 58.76 Mbit/s)

• Flow 1 (95th percentile 19.36 ms)

```
Run 8: Statistics of KohoCC

Start at: 2017-08-29 23:11:08
End at: 2017-08-29 23:11:39
Local clock offset: 0.851 ms
Remote clock offset: -1.411 ms


# Below is generated by plot.py at 2017-08-30 02:22:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.64 Mbit/s
95th percentile per-packet one-way delay: 19.602 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 58.64 Mbit/s
95th percentile per-packet one-way delay: 19.602 ms
Loss rate: 0.10%
```
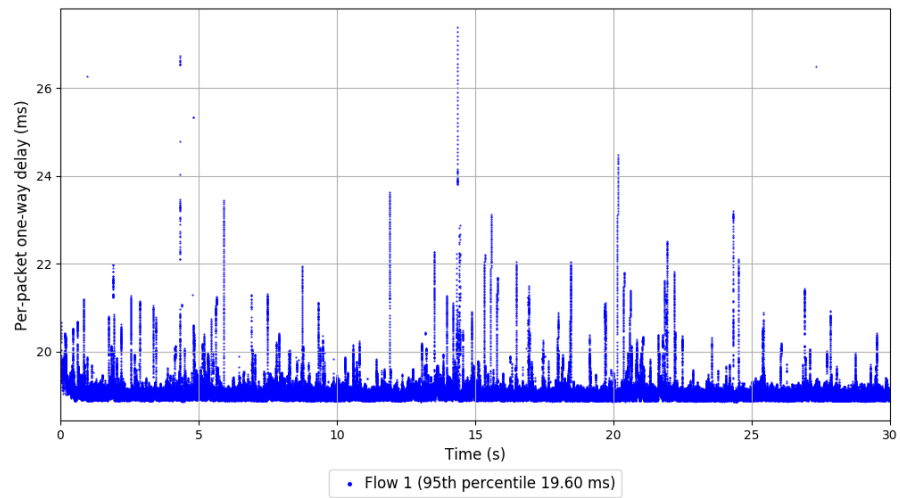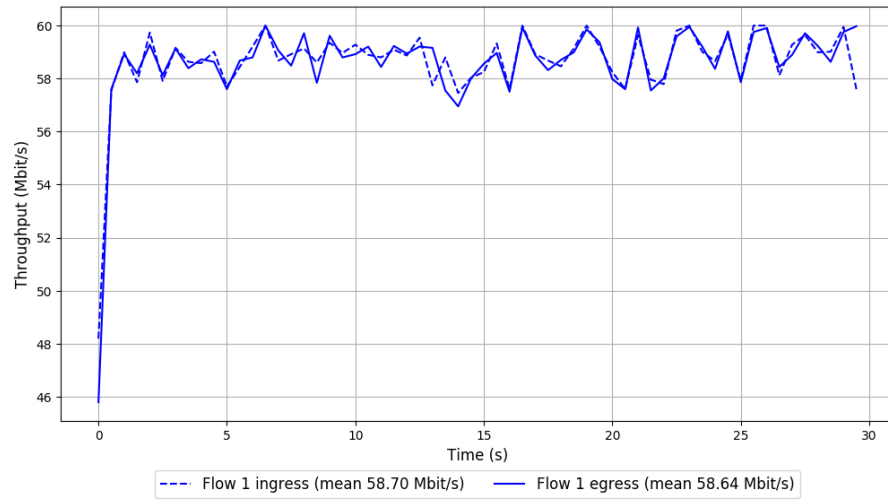
Run 8: Report of KohoCC — Data Link

Flow 1 ingress (mean 58.70 Mbit/s) ----- Flow 1 egress (mean 58.64 Mbit/s)

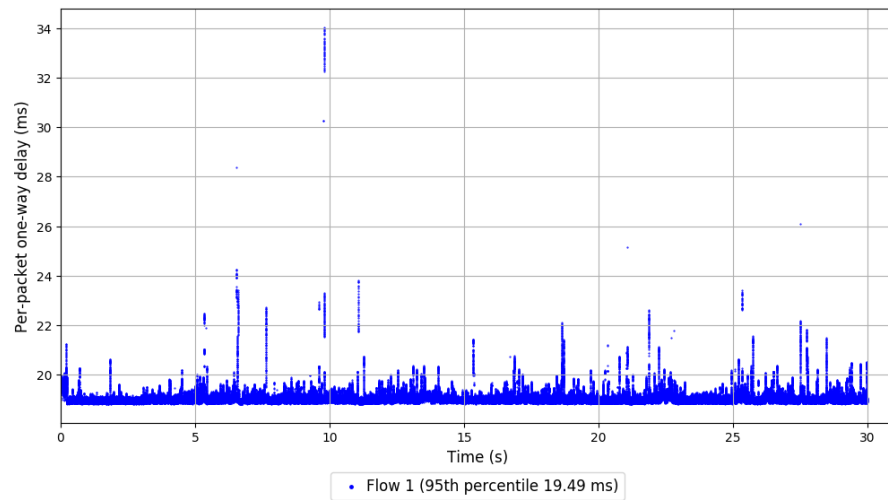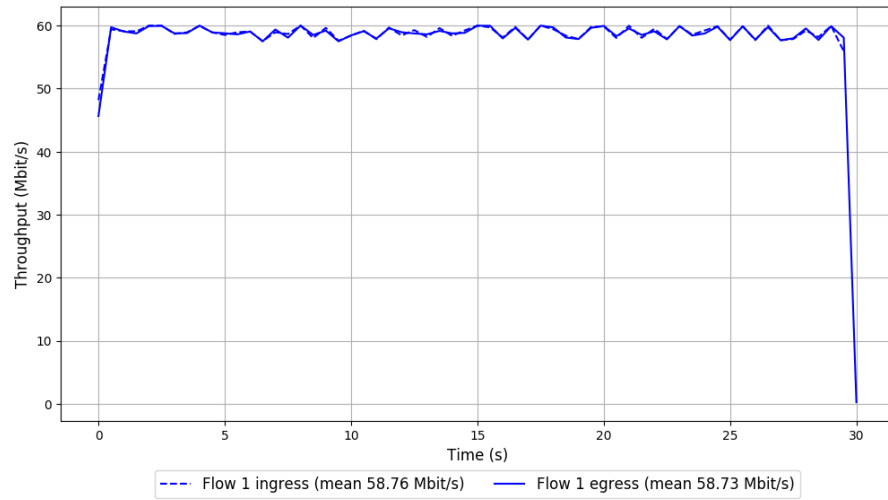Flow 1 (95th percentile 19.60 ms)

```
Run 9: Statistics of KohoCC

Start at: 2017-08-29 23:30:52
End at: 2017-08-29 23:31:22
Local clock offset: 0.778 ms
Remote clock offset: -1.751 ms


# Below is generated by plot.py at 2017-08-30 02:22:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.73 Mbit/s
95th percentile per-packet one-way delay: 19.486 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 58.73 Mbit/s
95th percentile per-packet one-way delay: 19.486 ms
Loss rate: 0.05%
```

Run 9: Report of KohoCC — Data Link

Flow 1 ingress (mean 58.76 Mbit/s)   Flow 1 egress (mean 58.73 Mbit/s)

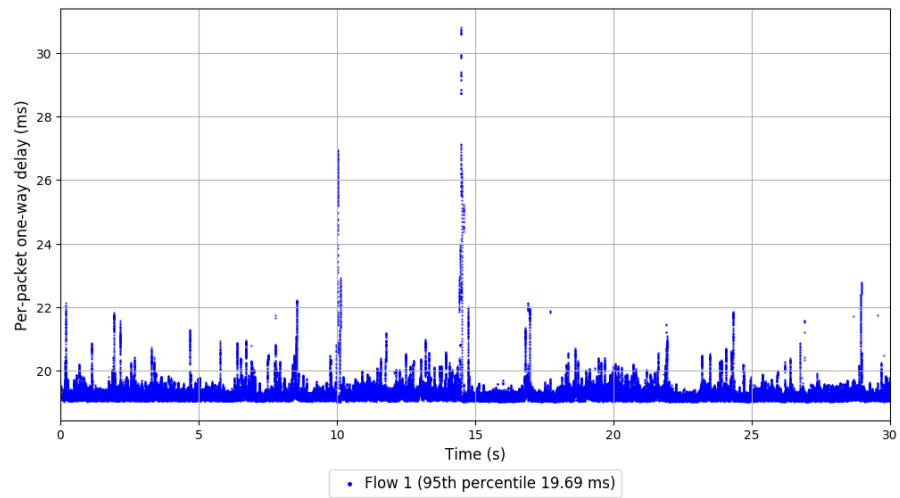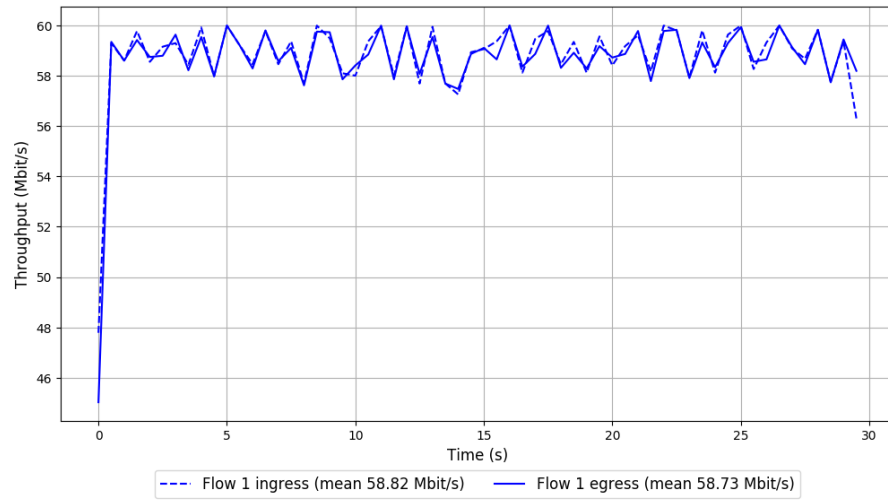• Flow 1 (95th percentile 19.49 ms)

```
Run 10: Statistics of KohoCC

Start at: 2017-08-29 23:50:41
End at: 2017-08-29 23:51:11
Local clock offset: 0.427 ms
Remote clock offset: -1.805 ms


# Below is generated by plot.py at 2017-08-30 02:22:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.73 Mbit/s
95th percentile per-packet one-way delay: 19.693 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 58.73 Mbit/s
95th percentile per-packet one-way delay: 19.693 ms
Loss rate: 0.16%
```

Run 10: Report of KohoCC — Data Link

Flow 1 ingress (mean 58.82 Mbit/s) —— Flow 1 egress (mean 58.73 Mbit/s)

• Flow 1 (95th percentile 19.69 ms)
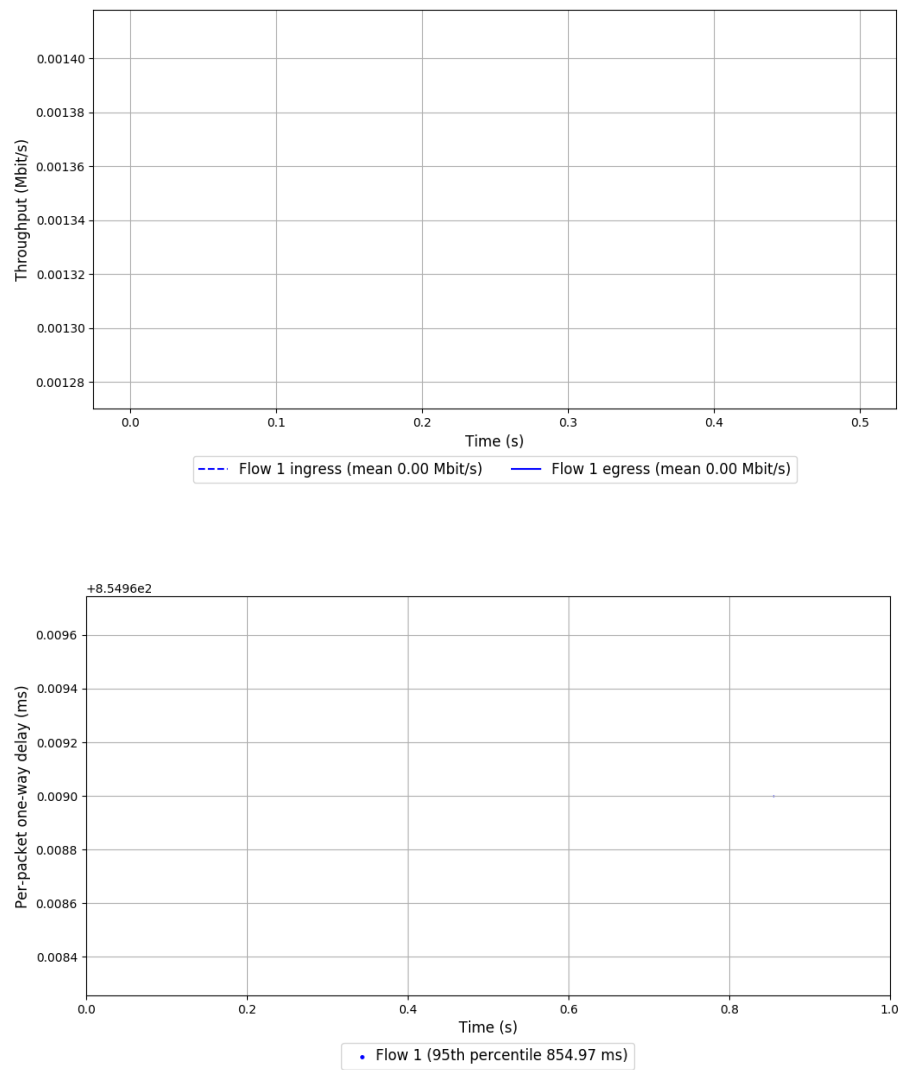
```
Run 1: Statistics of LEDBAT

Start at: 2017-08-29 20:58:52
End at: 2017-08-29 20:59:22
Local clock offset: 1.894 ms
Remote clock offset: -1.081 ms
```
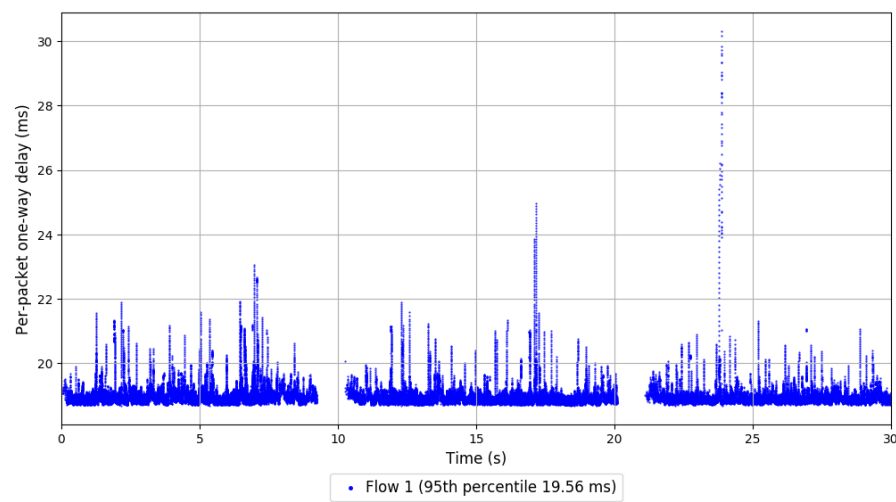
Run 1: Report of LEDBAT — Data Link

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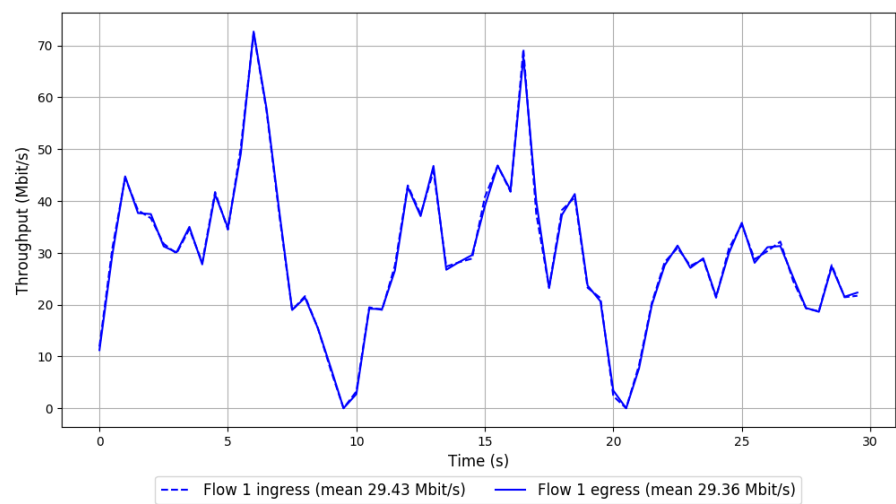

Flow 1 (95th percentile 854.97 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2017-08-29 21:18:11
End at: 2017-08-29 21:18:41
Local clock offset: 1.639 ms
Remote clock offset: -1.347 ms


# Below is generated by plot.py at 2017-08-30 02:22:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.36 Mbit/s
95th percentile per-packet one-way delay: 19.562 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 29.36 Mbit/s
95th percentile per-packet one-way delay: 19.562 ms
Loss rate: 0.24%
```

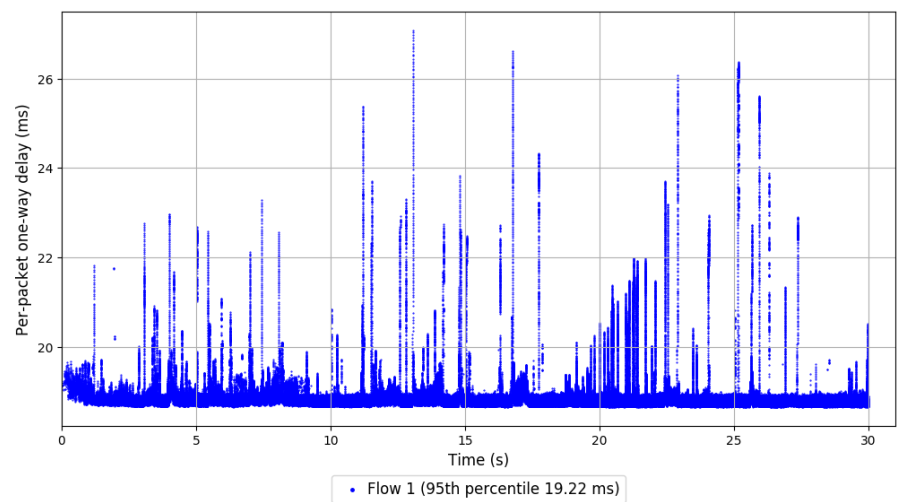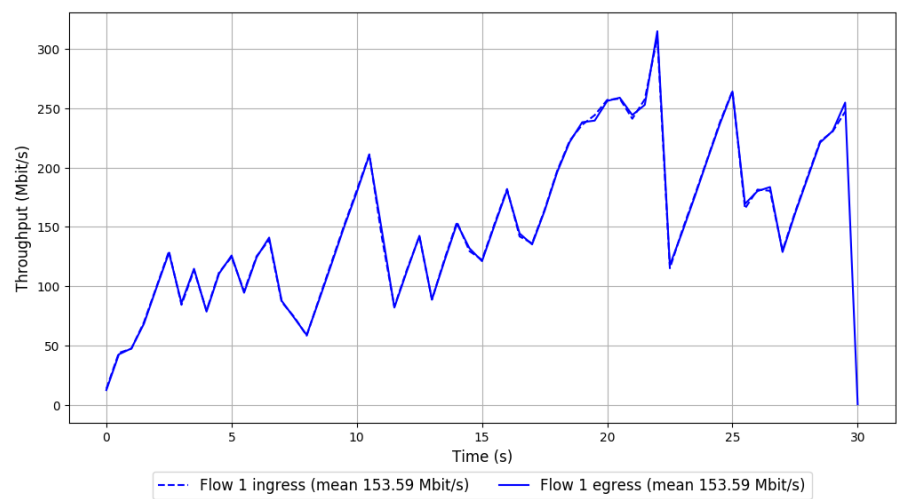Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2017-08-29 21:37:54
End at: 2017-08-29 21:38:24
Local clock offset: 1.456 ms
Remote clock offset: -1.332 ms

# Below is generated by plot.py at 2017-08-30 02:23:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.59 Mbit/s
95th percentile per-packet one-way delay: 19.221 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 153.59 Mbit/s
95th percentile per-packet one-way delay: 19.221 ms
Loss rate: 0.01%
```

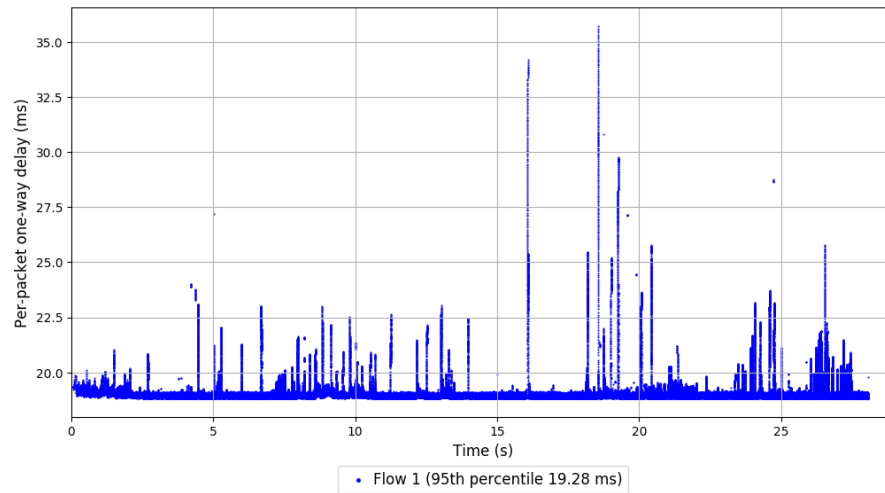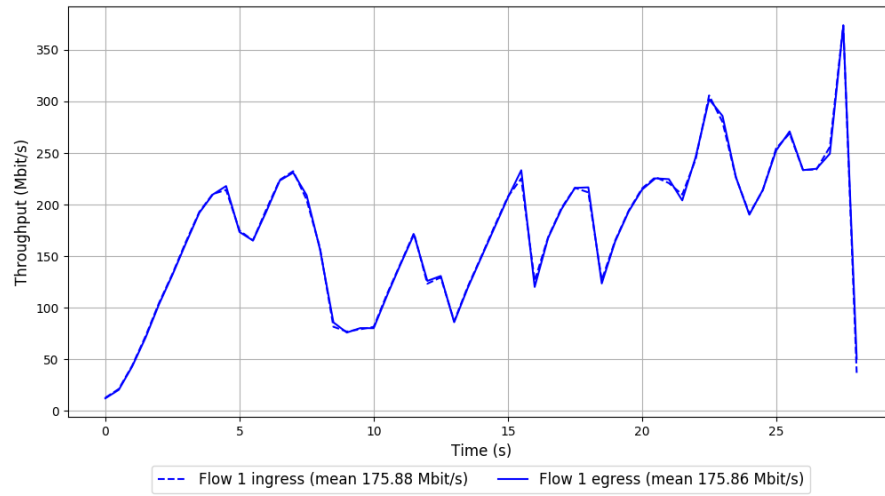Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2017-08-29 21:58:03
End at: 2017-08-29 21:58:33
Local clock offset: 1.377 ms
Remote clock offset: -1.469 ms

# Below is generated by plot.py at 2017-08-30 02:23:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.86 Mbit/s
95th percentile per-packet one-way delay: 19.278 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 175.86 Mbit/s
95th percentile per-packet one-way delay: 19.278 ms
Loss rate: 0.02%
```

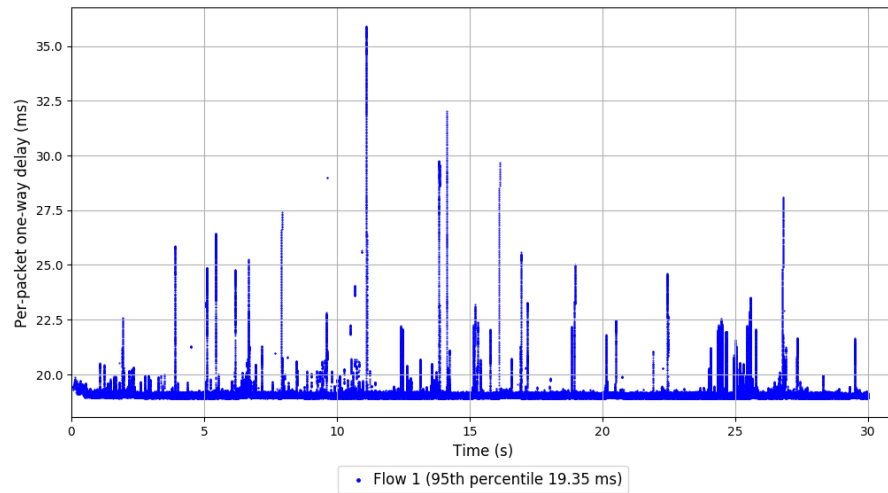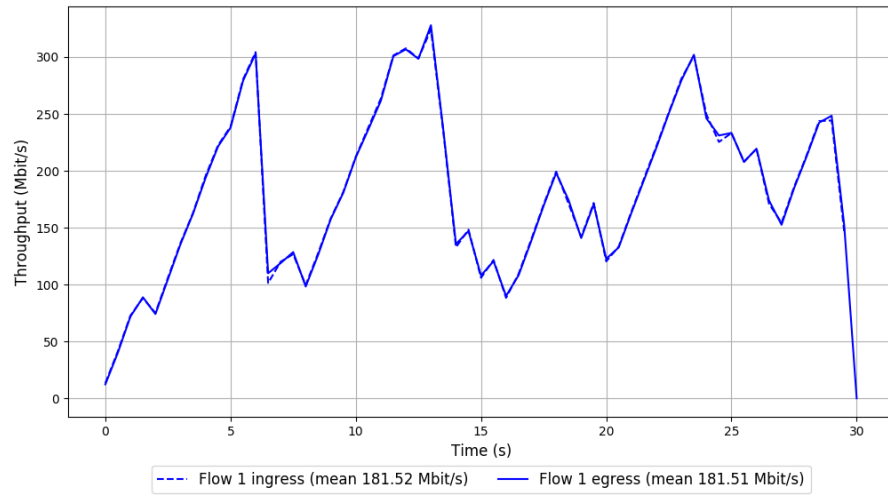Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2017-08-29 22:18:03
End at: 2017-08-29 22:18:33
Local clock offset: 1.257 ms
Remote clock offset: -1.274 ms


# Below is generated by plot.py at 2017-08-30 02:23:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.51 Mbit/s
95th percentile per-packet one-way delay: 19.347 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 181.51 Mbit/s
95th percentile per-packet one-way delay: 19.347 ms
Loss rate: 0.01%
```

Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 181.52 Mbit/s)   Flow 1 egress (mean 181.51 Mbit/s)

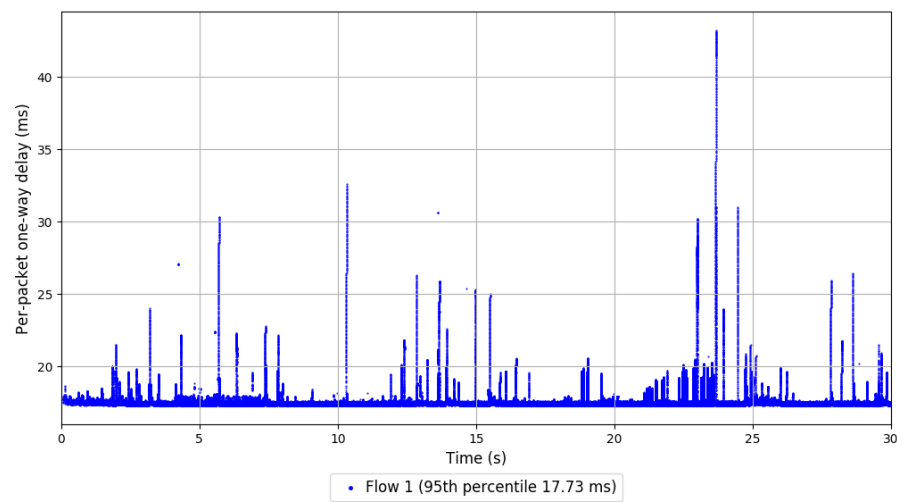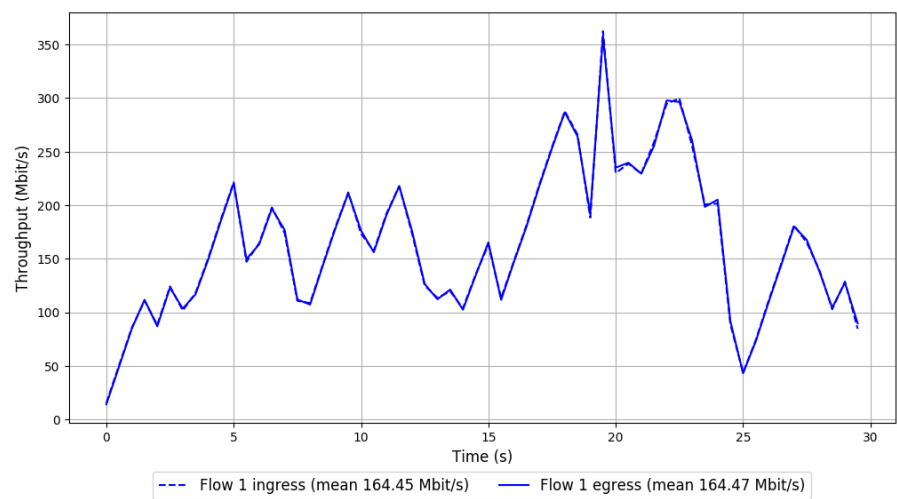Flow 1 (95th percentile 19.35 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2017-08-29 22:37:56
End at: 2017-08-29 22:38:26
Local clock offset: 1.047 ms
Remote clock offset: -1.331 ms

# Below is generated by plot.py at 2017-08-30 02:23:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.47 Mbit/s
95th percentile per-packet one-way delay: 17.725 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 164.47 Mbit/s
95th percentile per-packet one-way delay: 17.725 ms
Loss rate: 0.01%
```

Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 164.45 Mbit/s) — Flow 1 egress (mean 164.47 Mbit/s)

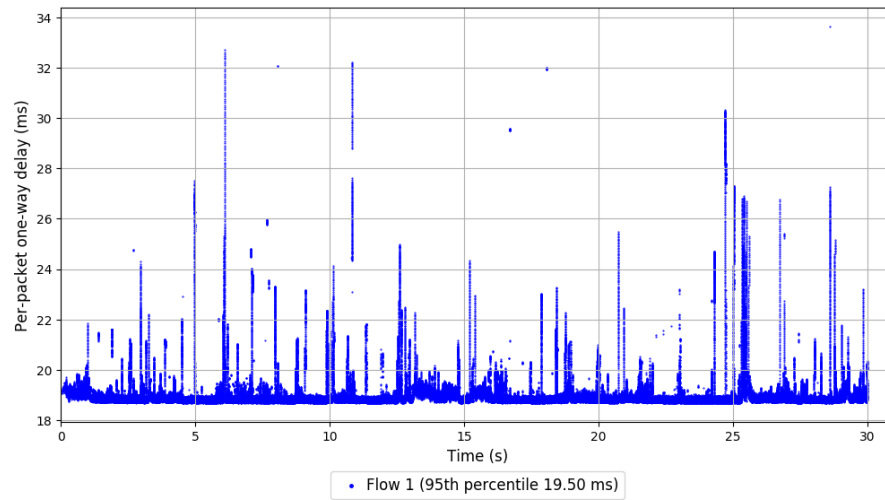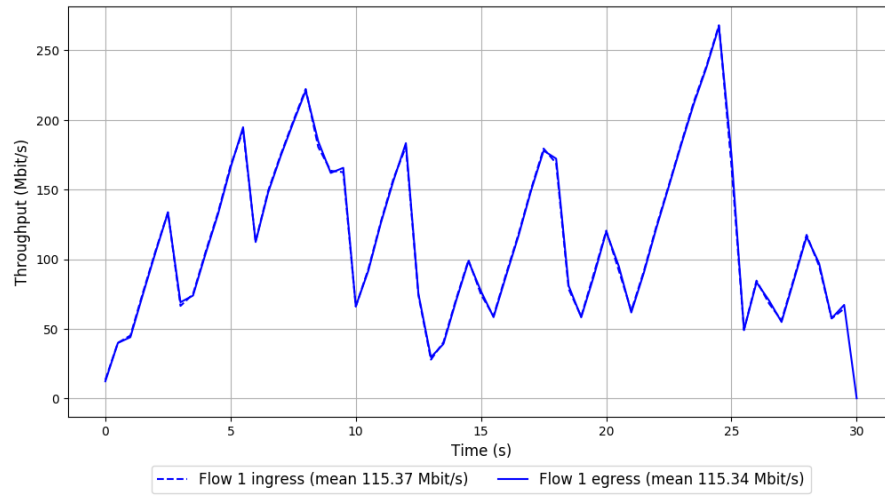• Flow 1 (95th percentile 17.73 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2017-08-29 22:57:55
End at: 2017-08-29 22:58:25
Local clock offset: 0.793 ms
Remote clock offset: -1.382 ms


# Below is generated by plot.py at 2017-08-30 02:23:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 115.34 Mbit/s
95th percentile per-packet one-way delay: 19.503 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 115.34 Mbit/s
95th percentile per-packet one-way delay: 19.503 ms
Loss rate: 0.02%
```

Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 115.37 Mbit/s)   Flow 1 egress (mean 115.34 Mbit/s)

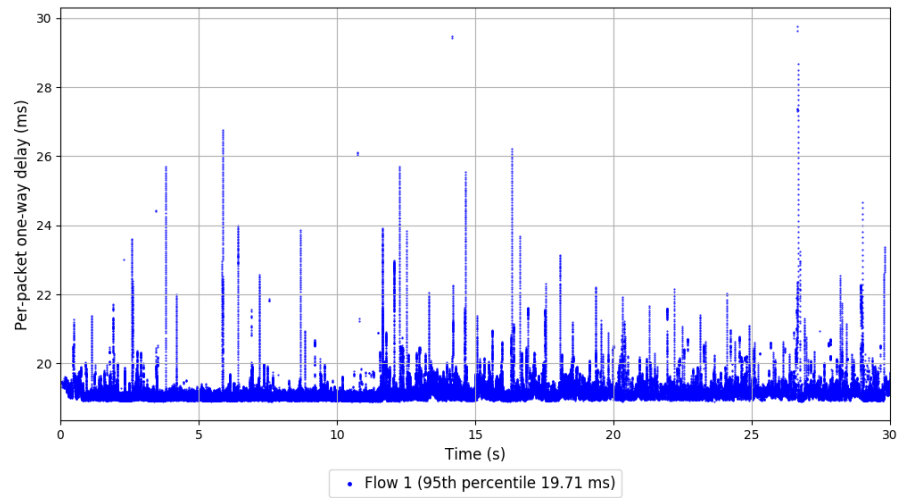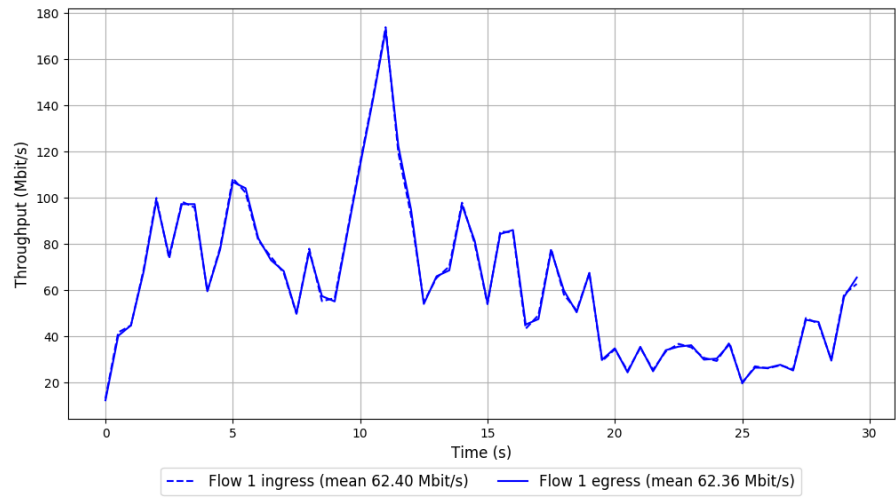Flow 1 (95th percentile 19.50 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2017-08-29 23:17:50
End at: 2017-08-29 23:18:20
Local clock offset: 0.776 ms
Remote clock offset: -1.424 ms


# Below is generated by plot.py at 2017-08-30 02:23:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.36 Mbit/s
95th percentile per-packet one-way delay: 19.714 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 62.36 Mbit/s
95th percentile per-packet one-way delay: 19.714 ms
Loss rate: 0.05%
```

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 62.40 Mbit/s)   Flow 1 egress (mean 62.36 Mbit/s)

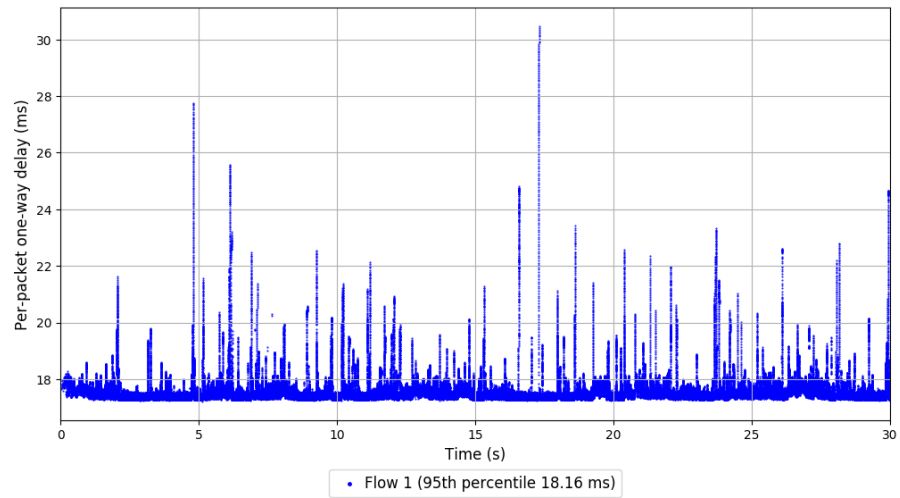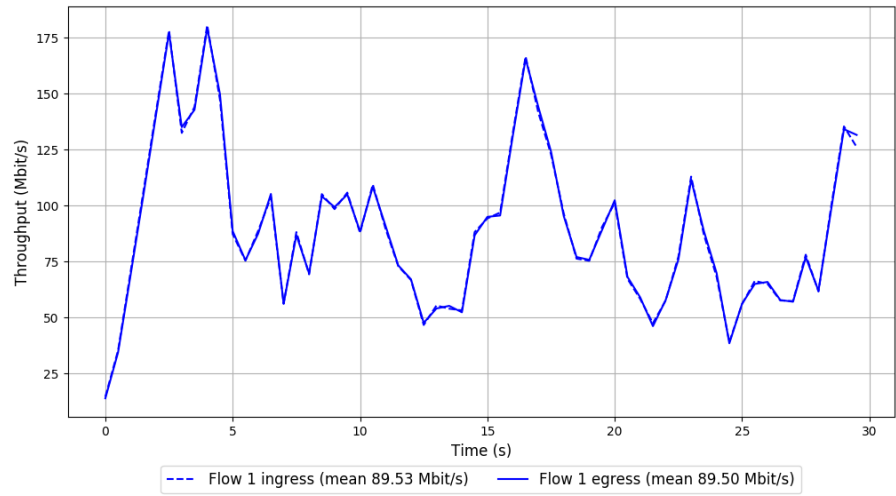Flow 1 (95th percentile 19.71 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2017-08-29 23:37:35
End at: 2017-08-29 23:38:05
Local clock offset: 0.689 ms
Remote clock offset: -1.686 ms


# Below is generated by plot.py at 2017-08-30 02:23:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 18.155 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 89.50 Mbit/s
95th percentile per-packet one-way delay: 18.155 ms
Loss rate: 0.03%
```
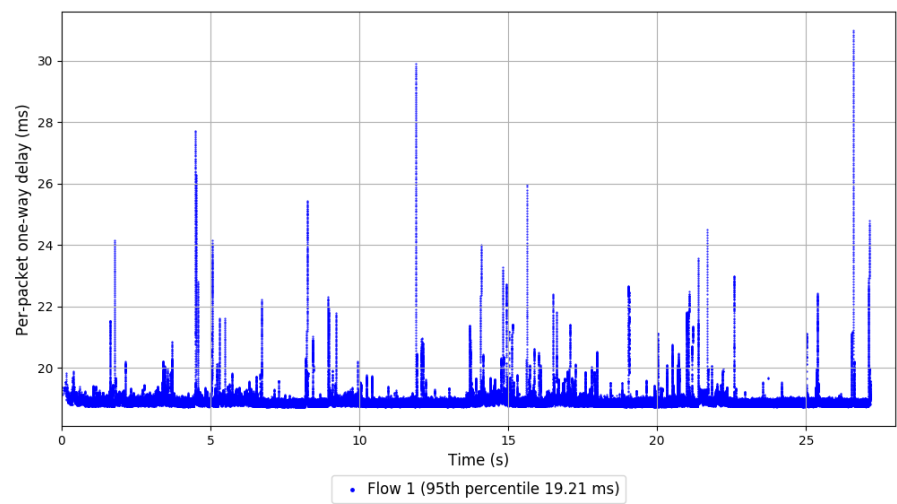
Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 89.53 Mbit/s)   Flow 1 egress (mean 89.50 Mbit/s)

• Flow 1 (95th percentile 18.16 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2017-08-29 23:57:24
End at: 2017-08-29 23:57:54
Local clock offset: 0.383 ms
Remote clock offset: -2.033 ms


# Below is generated by plot.py at 2017-08-30 02:23:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.61 Mbit/s
95th percentile per-packet one-way delay: 19.214 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 124.61 Mbit/s
95th percentile per-packet one-way delay: 19.214 ms
Loss rate: 0.01%
```
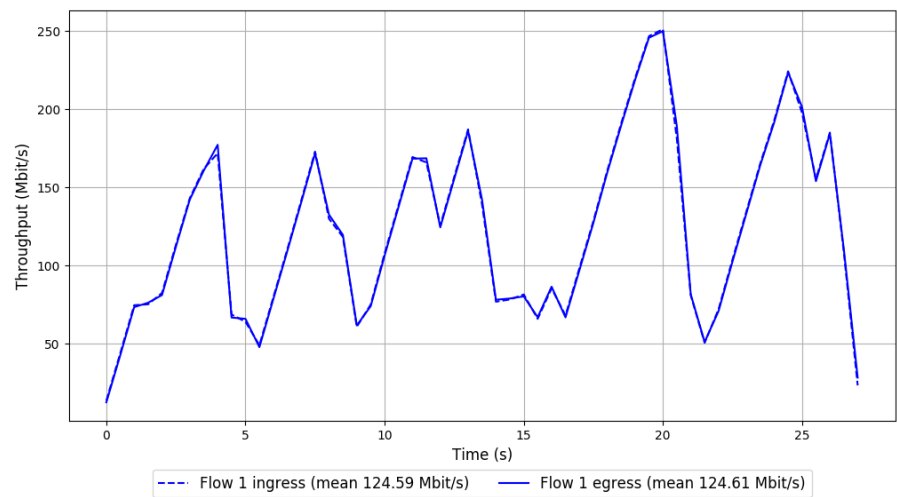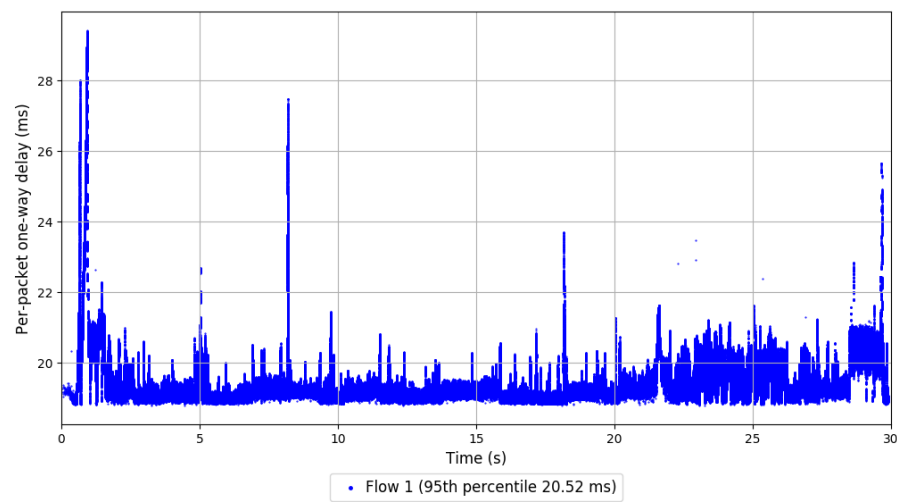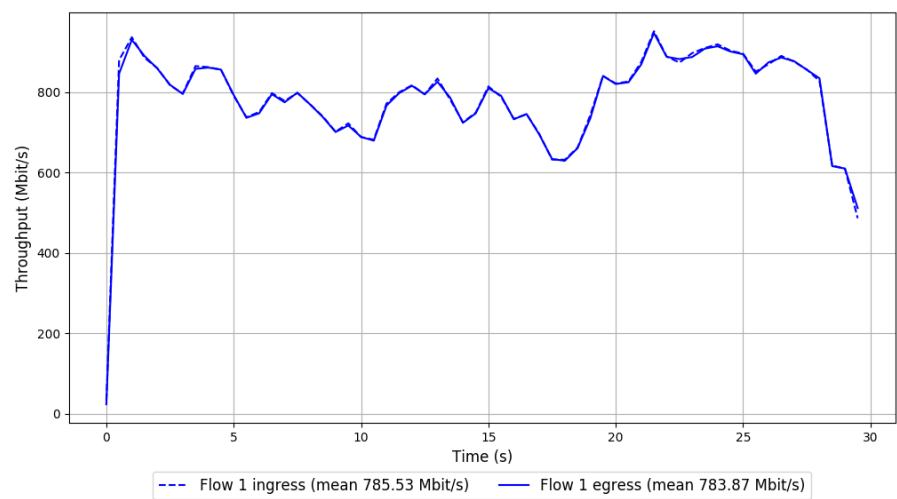
Run 10: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC

Start at: 2017-08-29 21:01:16
End at: 2017-08-29 21:01:47
Local clock offset: 1.961 ms
Remote clock offset: -1.103 ms

# Below is generated by plot.py at 2017-08-30 02:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 783.87 Mbit/s
95th percentile per-packet one-way delay: 20.524 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 783.87 Mbit/s
95th percentile per-packet one-way delay: 20.524 ms
Loss rate: 0.21%
```
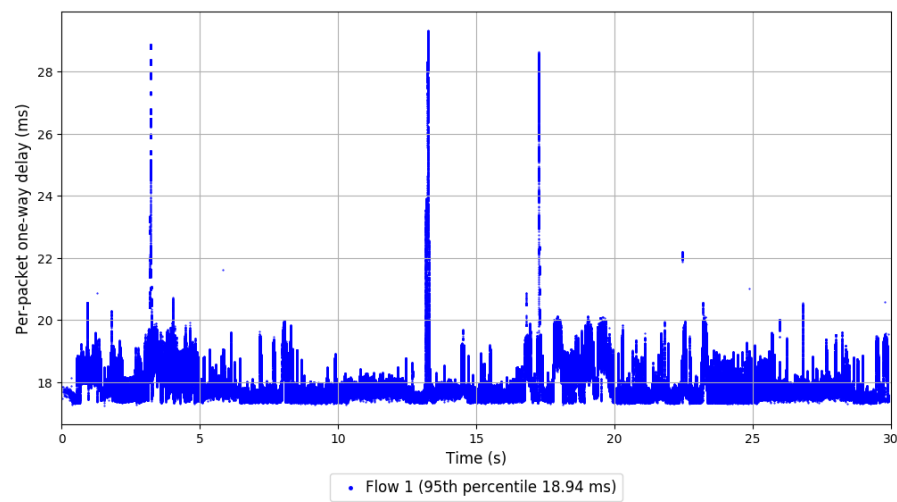
Run 1: Report of PCC — Data Link

Flow 1 ingress (mean 785.53 Mbit/s)   Flow 1 egress (mean 783.87 Mbit/s)

Flow 1 (95th percentile 20.52 ms)

```
Run 2: Statistics of PCC

Start at: 2017-08-29 21:20:42
End at: 2017-08-29 21:21:12
Local clock offset: 1.603 ms
Remote clock offset: -1.3 ms


# Below is generated by plot.py at 2017-08-30 02:25:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 759.75 Mbit/s
95th percentile per-packet one-way delay: 18.938 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 759.75 Mbit/s
95th percentile per-packet one-way delay: 18.938 ms
Loss rate: 0.35%
```
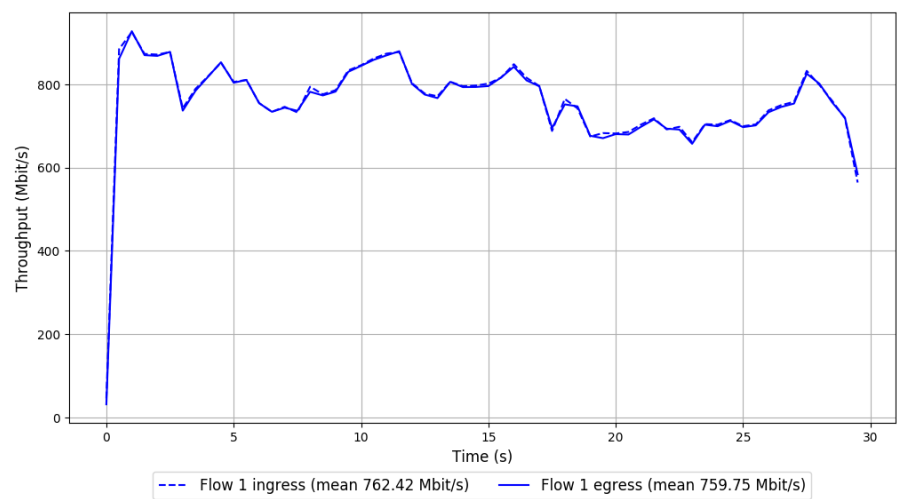
Run 2: Report of PCC — Data Link

Flow 1 ingress (mean 762.42 Mbit/s)   Flow 1 egress (mean 759.75 Mbit/s)

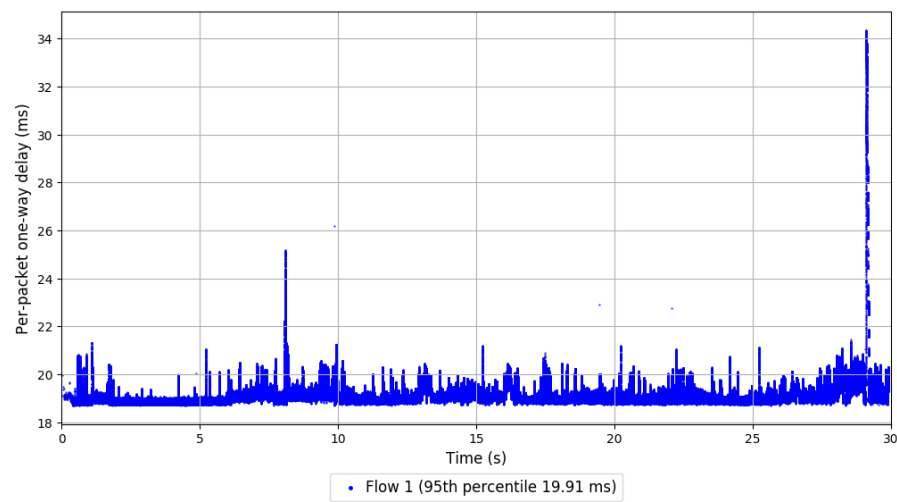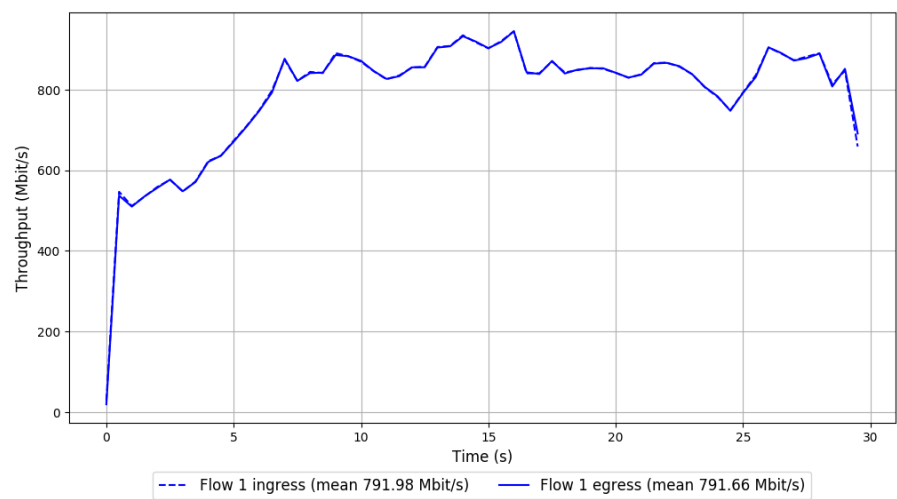Flow 1 (95th percentile 18.94 ms)

```
Run 3: Statistics of PCC

Start at: 2017-08-29 21:40:29
End at: 2017-08-29 21:40:59
Local clock offset: 1.341 ms
Remote clock offset: -1.352 ms


# Below is generated by plot.py at 2017-08-30 02:27:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 791.66 Mbit/s
95th percentile per-packet one-way delay: 19.908 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 791.66 Mbit/s
95th percentile per-packet one-way delay: 19.908 ms
Loss rate: 0.04%
```

Run 3: Report of PCC — Data Link

Flow 1 ingress (mean 791.98 Mbit/s)   Flow 1 egress (mean 791.66 Mbit/s)

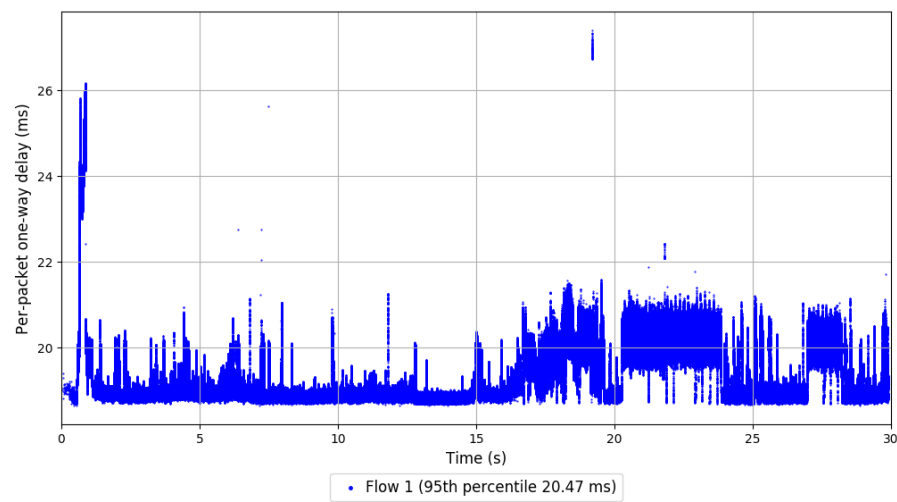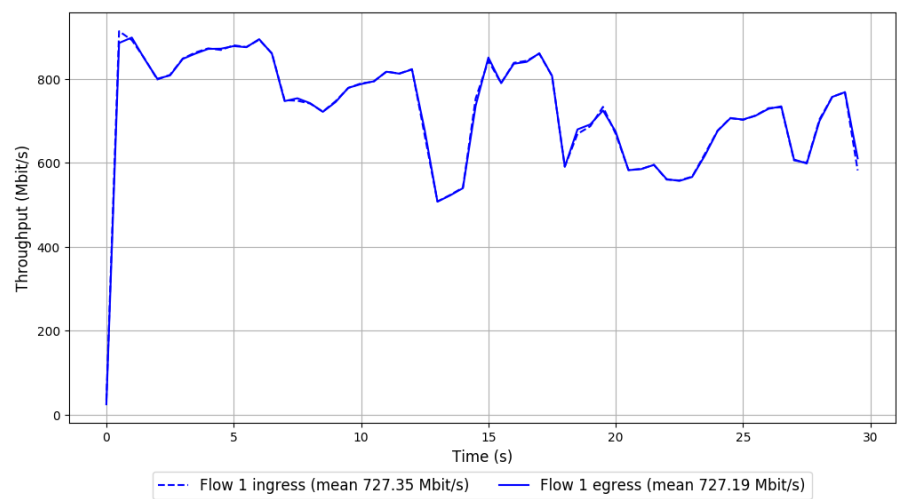• Flow 1 (95th percentile 19.91 ms)

```
Run 4: Statistics of PCC

Start at: 2017-08-29 22:00:43
End at: 2017-08-29 22:01:13
Local clock offset: 1.281 ms
Remote clock offset: -1.463 ms


# Below is generated by plot.py at 2017-08-30 02:27:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 727.19 Mbit/s
95th percentile per-packet one-way delay: 20.467 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 727.19 Mbit/s
95th percentile per-packet one-way delay: 20.467 ms
Loss rate: 0.02%
```

Run 4: Report of PCC — Data Link

Flow 1 ingress (mean 727.35 Mbit/s) ---- Flow 1 egress (mean 727.19 Mbit/s) ——

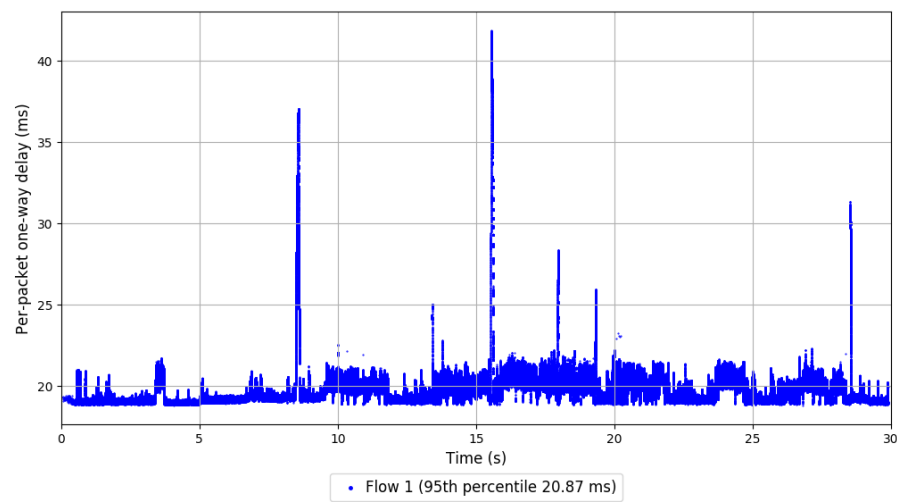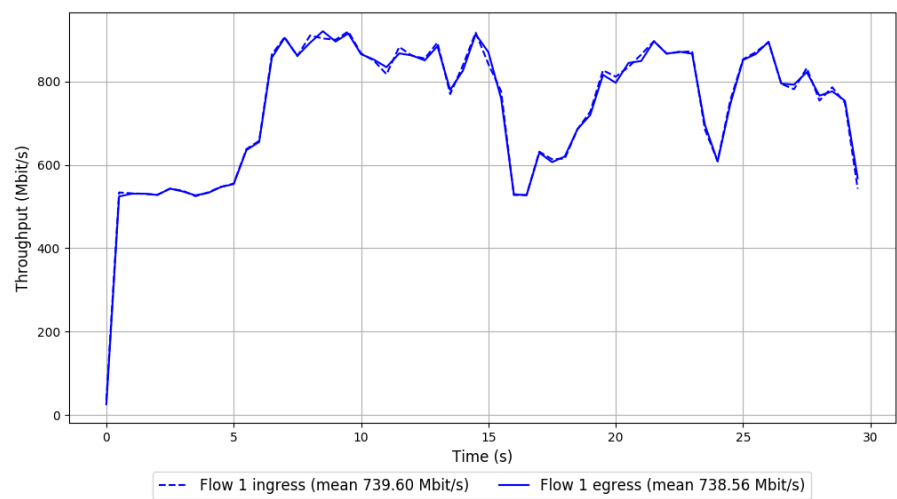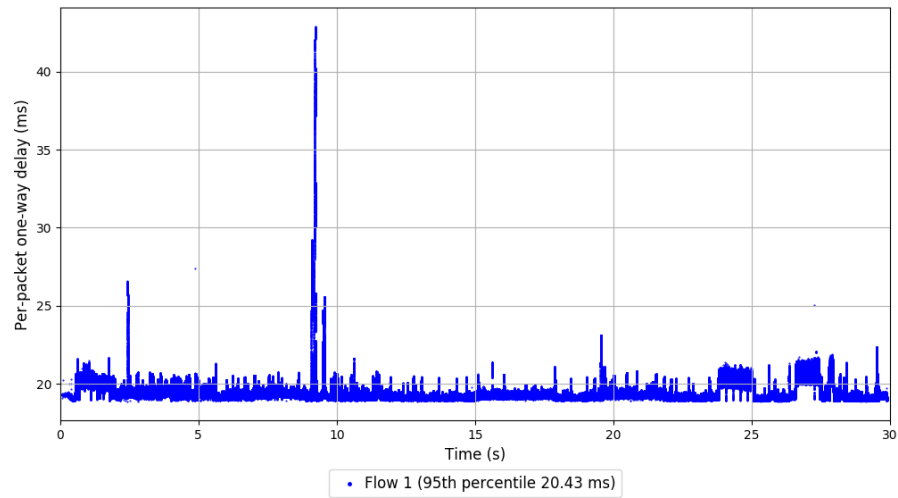Flow 1 (95th percentile 20.47 ms)

```
Run 5: Statistics of PCC

Start at: 2017-08-29 22:20:44
End at: 2017-08-29 22:21:14
Local clock offset: 1.358 ms
Remote clock offset: -1.206 ms


# Below is generated by plot.py at 2017-08-30 02:28:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 738.56 Mbit/s
95th percentile per-packet one-way delay: 20.872 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 738.56 Mbit/s
95th percentile per-packet one-way delay: 20.872 ms
Loss rate: 0.16%
```

Run 5: Report of PCC — Data Link

Flow 1 ingress (mean 739.60 Mbit/s)   Flow 1 egress (mean 738.56 Mbit/s)

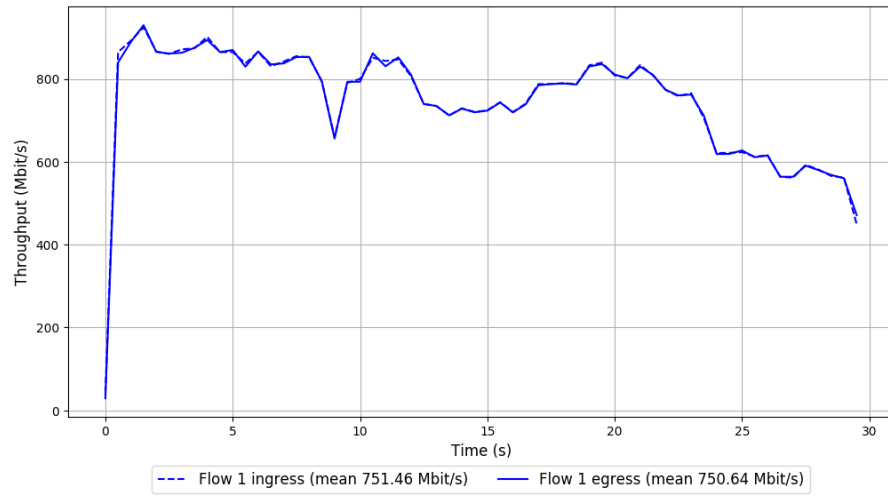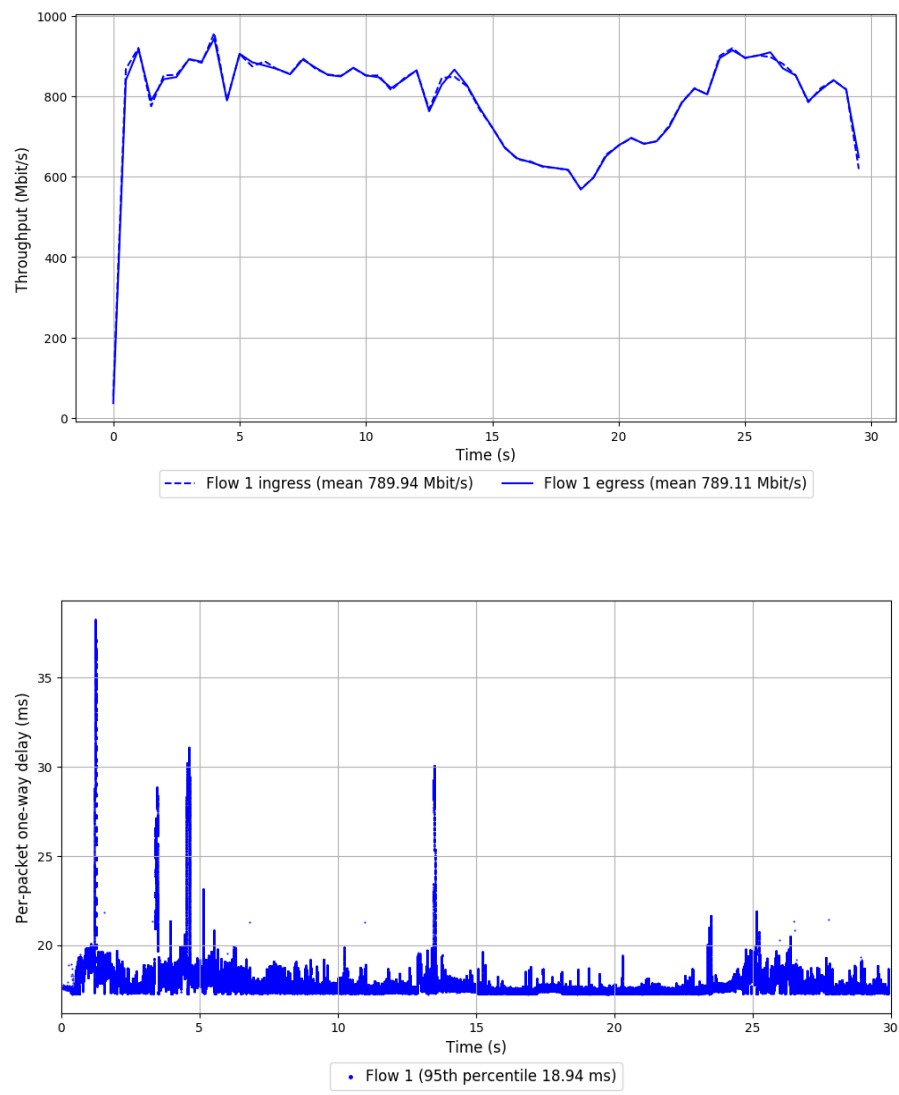Flow 1 (95th percentile 20.87 ms)

```
Run 6: Statistics of PCC

Start at: 2017-08-29 22:40:33
End at: 2017-08-29 22:41:03
Local clock offset: 1.03 ms
Remote clock offset: -1.339 ms


# Below is generated by plot.py at 2017-08-30 02:28:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 750.64 Mbit/s
95th percentile per-packet one-way delay: 20.432 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 750.64 Mbit/s
95th percentile per-packet one-way delay: 20.432 ms
Loss rate: 0.11%
```

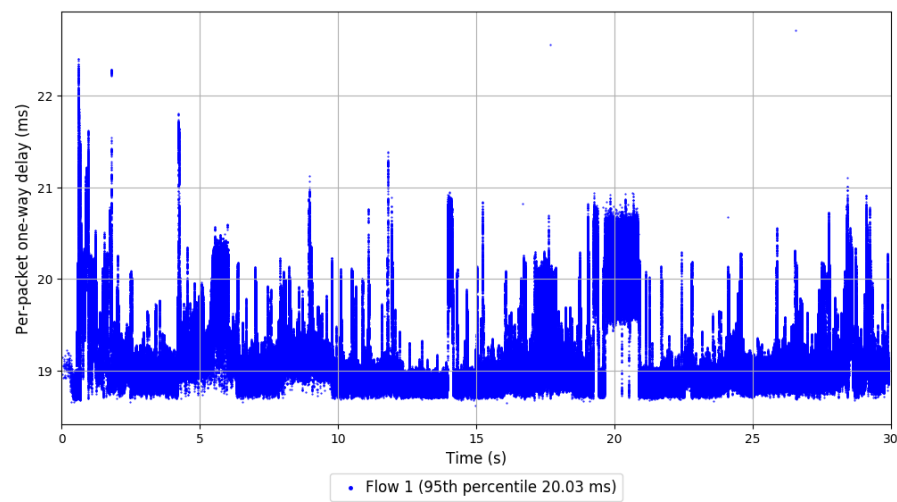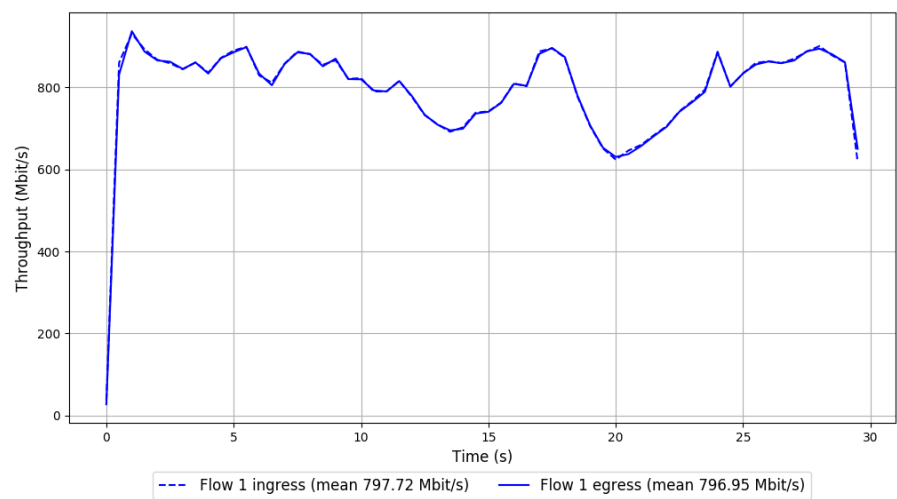# Run 6: Report of PCC — Data Link

```
Run 7: Statistics of PCC

Start at: 2017-08-29 23:00:29
End at: 2017-08-29 23:00:59
Local clock offset: 0.838 ms
Remote clock offset: -1.333 ms


# Below is generated by plot.py at 2017-08-30 02:30:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 789.11 Mbit/s
95th percentile per-packet one-way delay: 18.939 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 789.11 Mbit/s
95th percentile per-packet one-way delay: 18.939 ms
Loss rate: 0.11%
```

Run 7: Report of PCC — Data Link

Flow 1 ingress (mean 789.94 Mbit/s) — Flow 1 egress (mean 789.11 Mbit/s)

Flow 1 (95th percentile 18.94 ms)

```
Run 8: Statistics of PCC

Start at: 2017-08-29 23:20:21
End at: 2017-08-29 23:20:51
Local clock offset: 0.769 ms
Remote clock offset: -1.448 ms


# Below is generated by plot.py at 2017-08-30 02:30:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 796.95 Mbit/s
95th percentile per-packet one-way delay: 20.034 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 796.95 Mbit/s
95th percentile per-packet one-way delay: 20.034 ms
Loss rate: 0.10%
```

Run 8: Report of PCC — Data Link

159

```
Run 9: Statistics of PCC

Start at: 2017-08-29 23:40:07
End at: 2017-08-29 23:40:37
Local clock offset: 0.657 ms
Remote clock offset: -1.8 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 815.04 Mbit/s
95th percentile per-packet one-way delay: 20.123 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 815.04 Mbit/s
95th percentile per-packet one-way delay: 20.123 ms
Loss rate: 0.12%
```
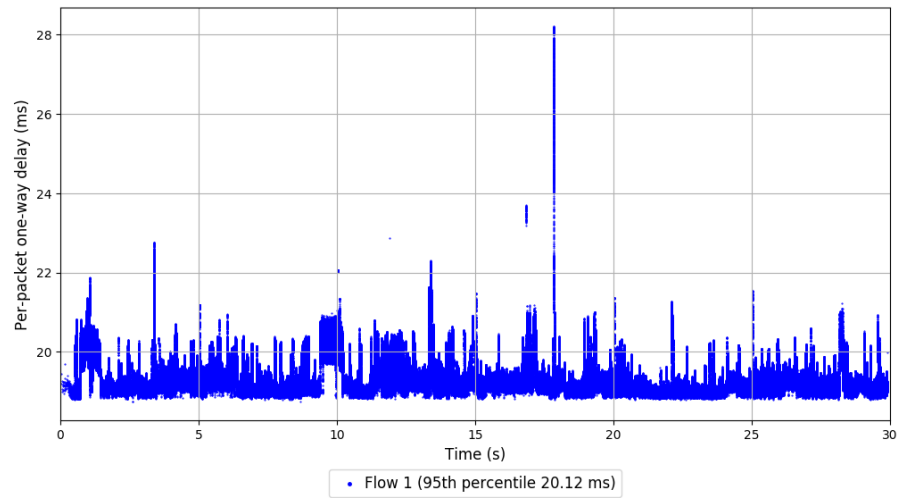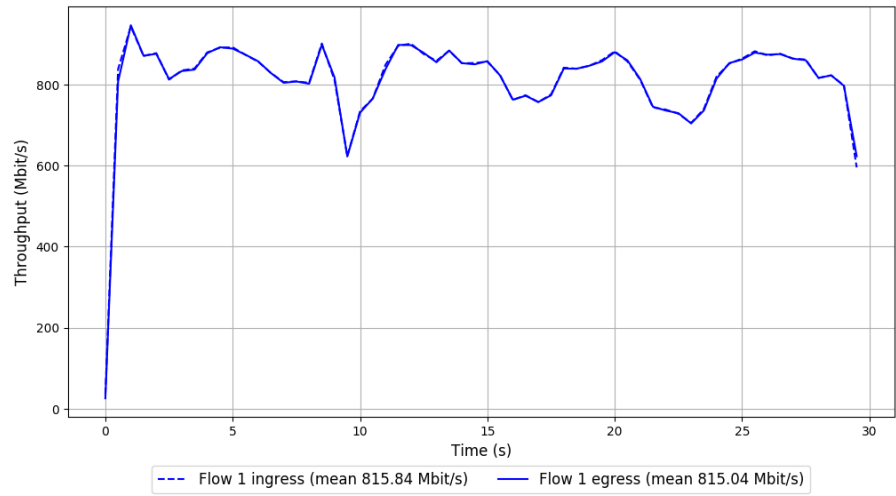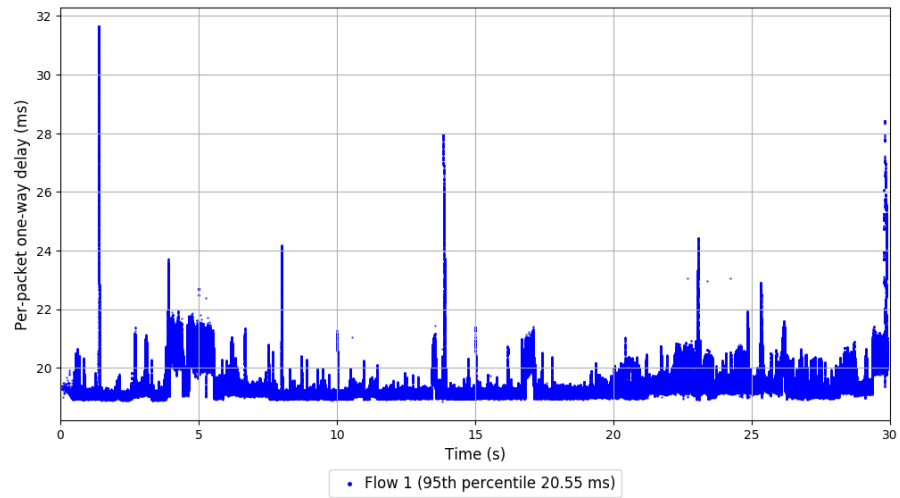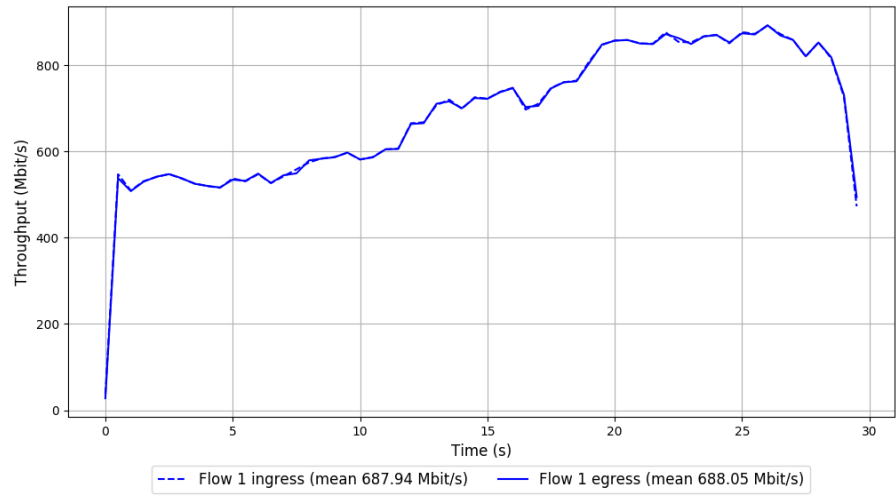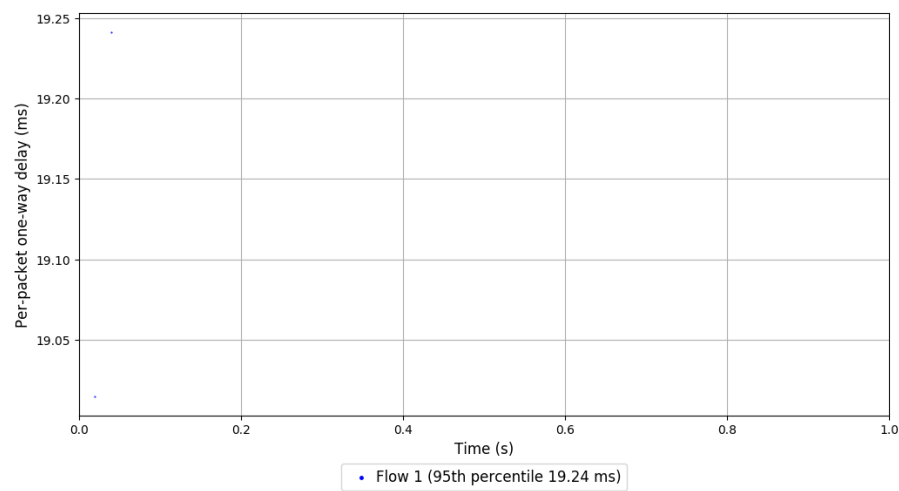
Run 9: Report of PCC — Data Link

Flow 1 ingress (mean 815.84 Mbit/s)   Flow 1 egress (mean 815.04 Mbit/s)

Flow 1 (95th percentile 20.12 ms)

161

```
Run 10: Statistics of PCC

Start at: 2017-08-29 23:59:57
End at: 2017-08-30 00:00:27
Local clock offset: 0.371 ms
Remote clock offset: -2.061 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 688.05 Mbit/s
95th percentile per-packet one-way delay: 20.548 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 688.05 Mbit/s
95th percentile per-packet one-way delay: 20.548 ms
Loss rate: 0.03%
```

Run 10: Report of PCC — Data Link

Flow 1 ingress (mean 687.94 Mbit/s)   Flow 1 egress (mean 688.05 Mbit/s)

Flow 1 (95th percentile 20.55 ms)

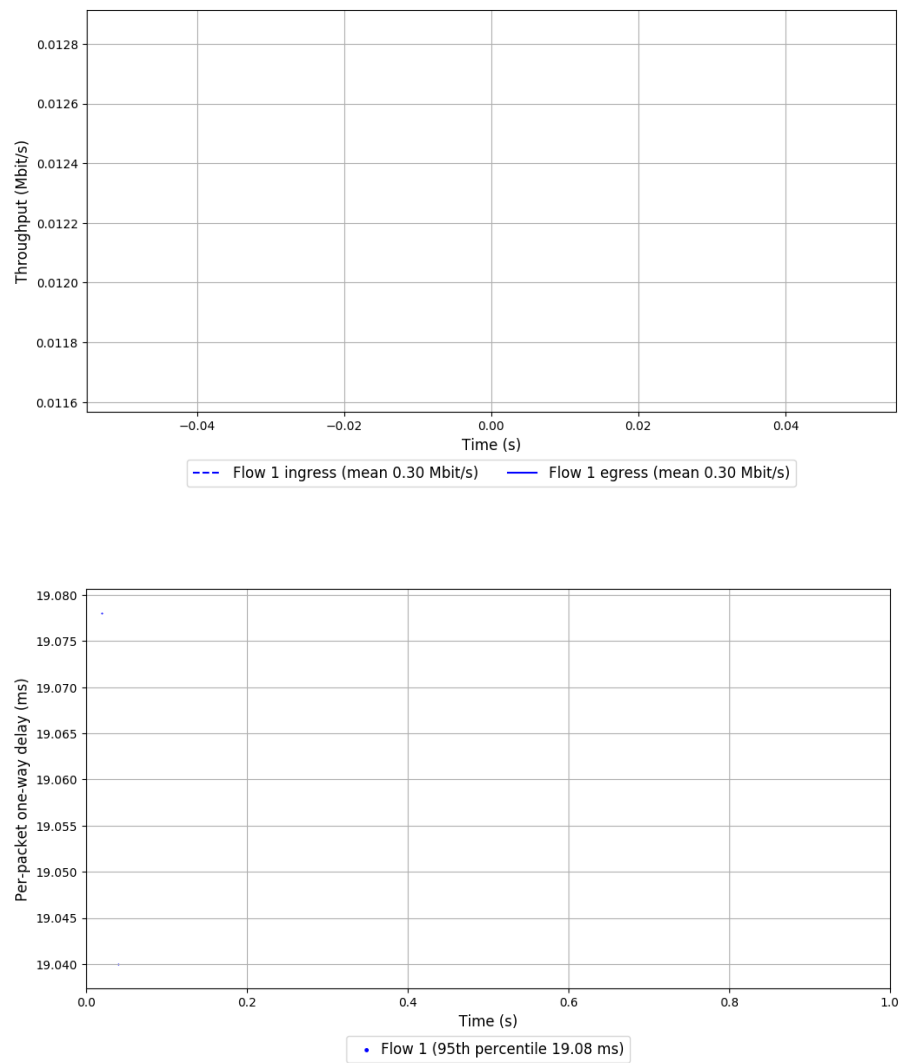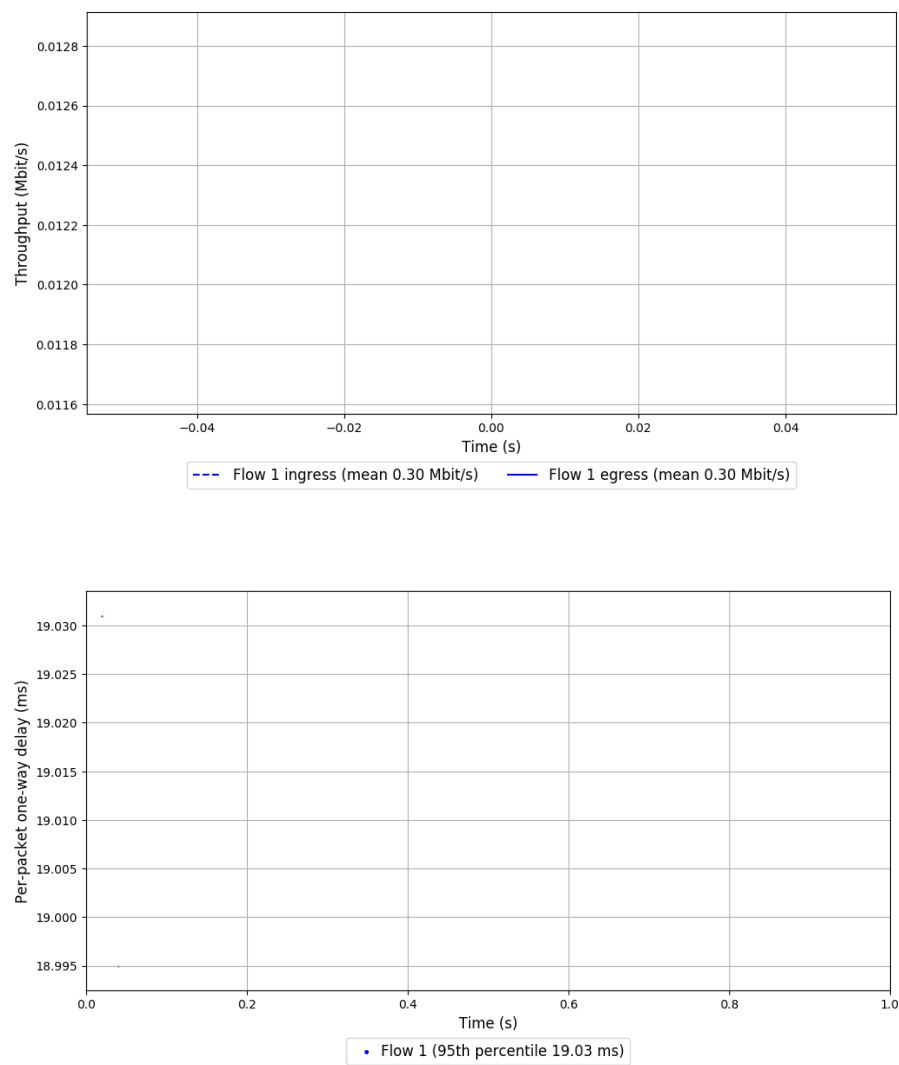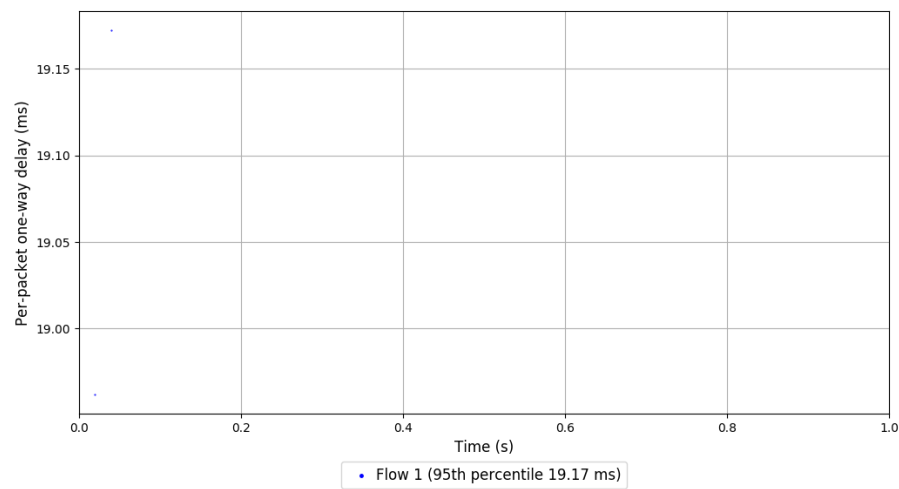Run 1: Statistics of QUIC Cubic

Start at: 2017-08-29 21:04:05
End at: 2017-08-29 21:04:35
Local clock offset: 1.827 ms
Remote clock offset: -1.143 ms

Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.30 Mbit/s) --- Flow 1 egress (mean 0.30 Mbit/s)

Flow 1 (95th percentile 19.24 ms)
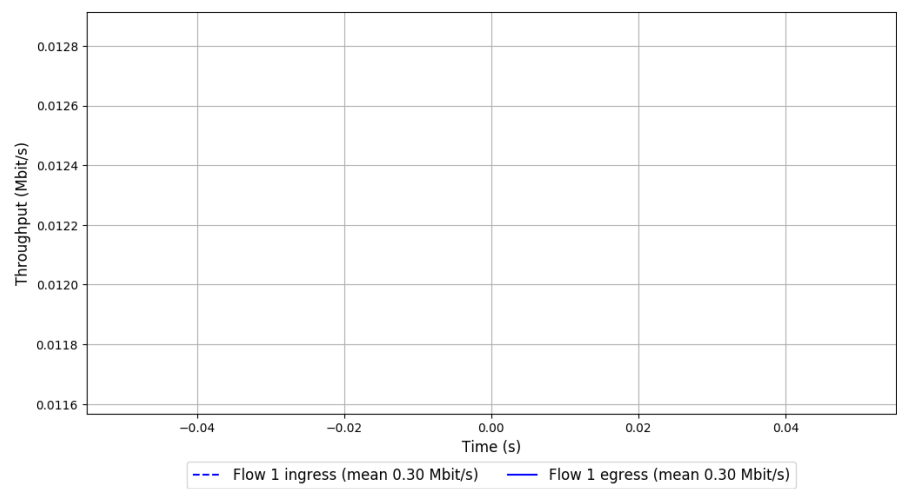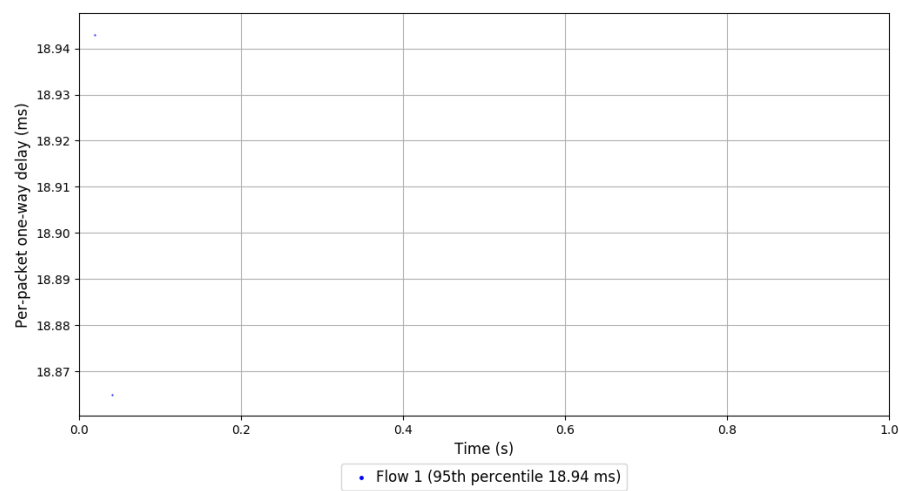
Run 2: Statistics of QUIC Cubic

Start at: 2017-08-29 21:23:28
End at: 2017-08-29 21:23:58
Local clock offset: 1.547 ms
Remote clock offset: -1.381 ms

Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.30 Mbit/s)   Flow 1 egress (mean 0.30 Mbit/s)

Flow 1 (95th percentile 19.08 ms)
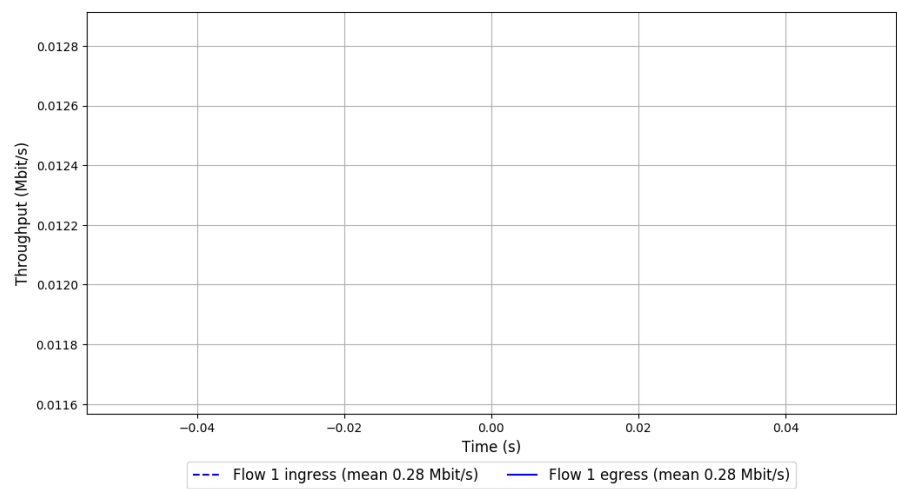
167

Run 3: Statistics of QUIC Cubic

Start at: 2017-08-29 21:43:25
End at: 2017-08-29 21:43:55
Local clock offset: 1.42 ms
Remote clock offset: -1.274 ms

Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.30 Mbit/s)   Flow 1 egress (mean 0.30 Mbit/s)

Flow 1 (95th percentile 19.03 ms)
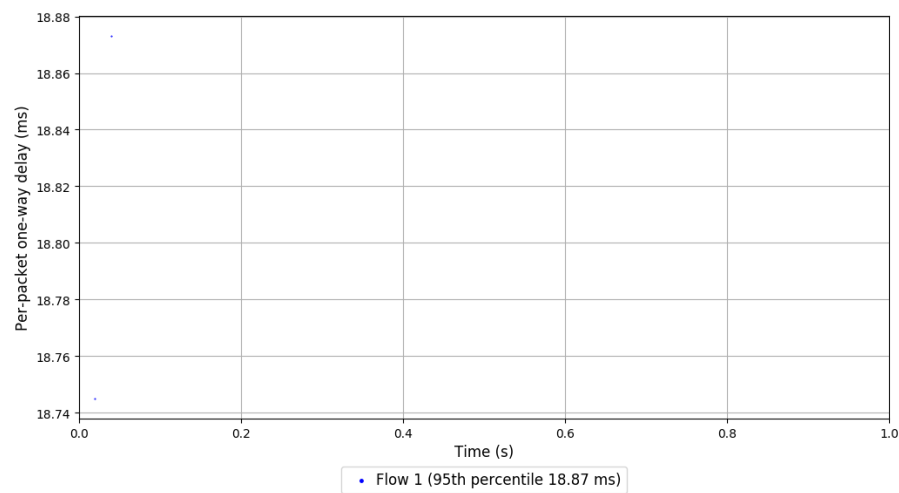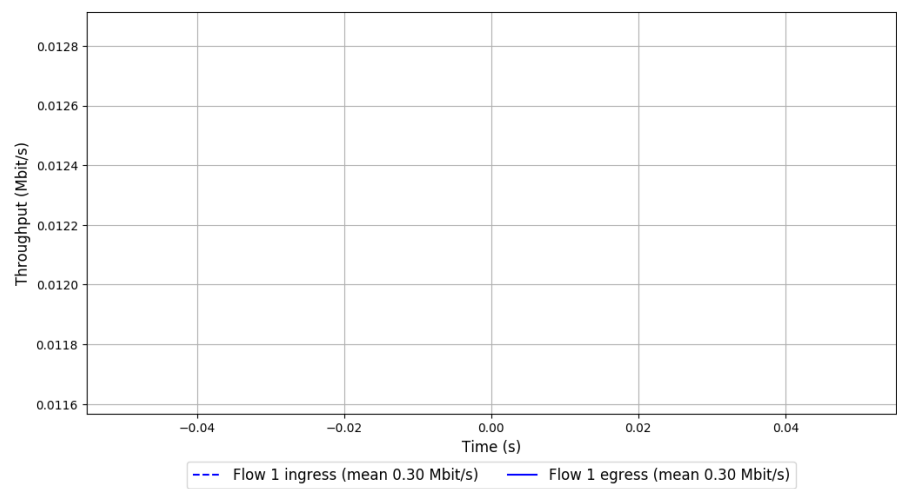
Run 4: Statistics of QUIC Cubic

Start at: 2017-08-29 22:03:34
End at: 2017-08-29 22:04:04
Local clock offset: 1.28 ms
Remote clock offset: -1.453 ms

Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.30 Mbit/s)   Flow 1 egress (mean 0.30 Mbit/s)

Flow 1 (95th percentile 19.17 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2017-08-29 22:23:43
End at: 2017-08-29 22:24:13
Local clock offset: 1.347 ms
Remote clock offset: -1.278 ms
```

Run 5: Report of QUIC Cubic — Data Link

```
Run 6: Statistics of QUIC Cubic

Start at: 2017-08-29 22:43:22
End at: 2017-08-29 22:43:52
Local clock offset: 1.08 ms
Remote clock offset: -1.331 ms
```

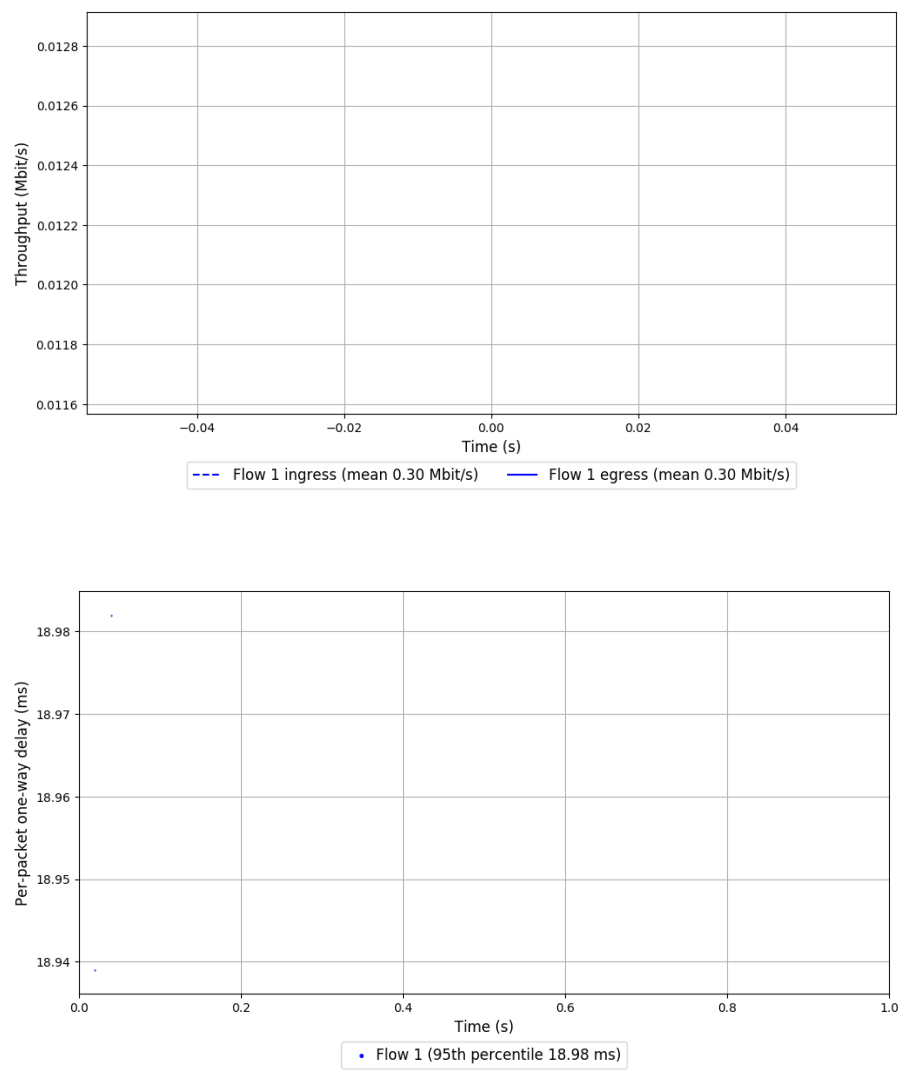## Run 6: Report of QUIC Cubic — Data Link
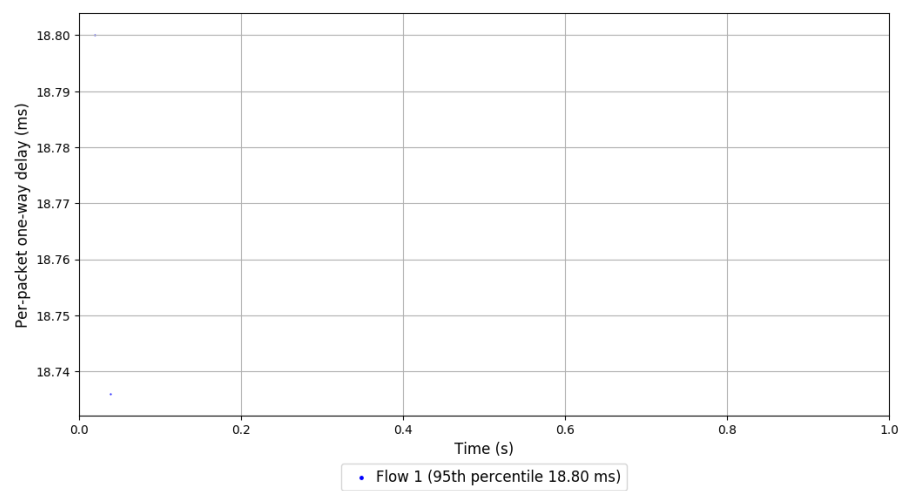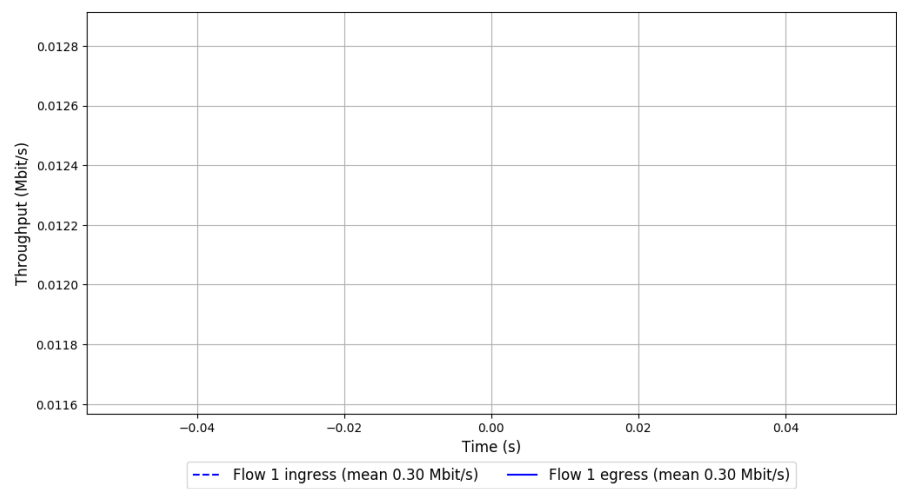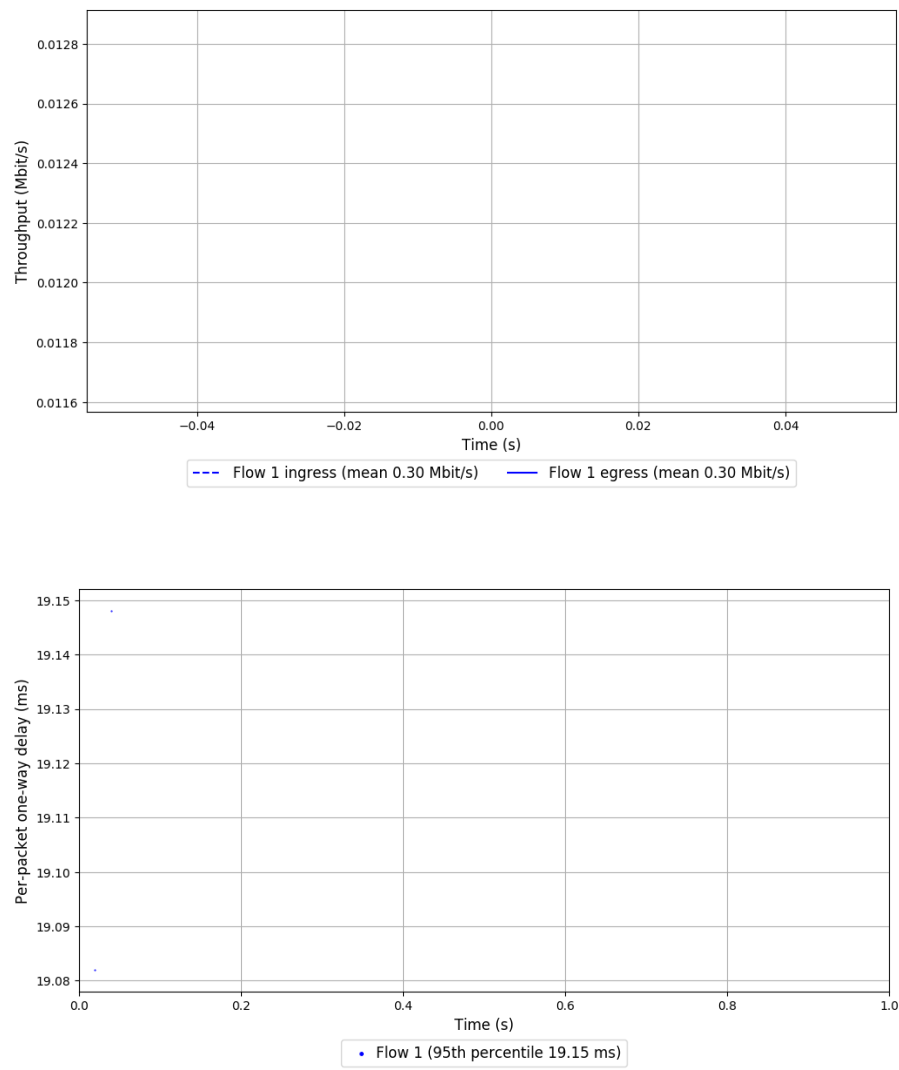
Run 7: Statistics of QUIC Cubic

Start at: 2017-08-29 23:03:23
End at: 2017-08-29 23:03:53
Local clock offset: 0.859 ms
Remote clock offset: -1.332 ms

Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.30 Mbit/s) — Flow 1 egress (mean 0.30 Mbit/s)

• Flow 1 (95th percentile 18.98 ms)

Run 8: Statistics of QUIC Cubic

Start at: 2017-08-29 23:23:09
End at: 2017-08-29 23:23:39
Local clock offset: 0.752 ms
Remote clock offset: -1.536 ms

Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.30 Mbit/s)   Flow 1 egress (mean 0.30 Mbit/s)

Flow 1 (95th percentile 18.80 ms)

Run 9: Statistics of QUIC Cubic

Start at: 2017-08-29 23:42:57
End at: 2017-08-29 23:43:27
Local clock offset: 0.525 ms
Remote clock offset: -1.736 ms

Run 9: Report of QUIC Cubic — Data Link

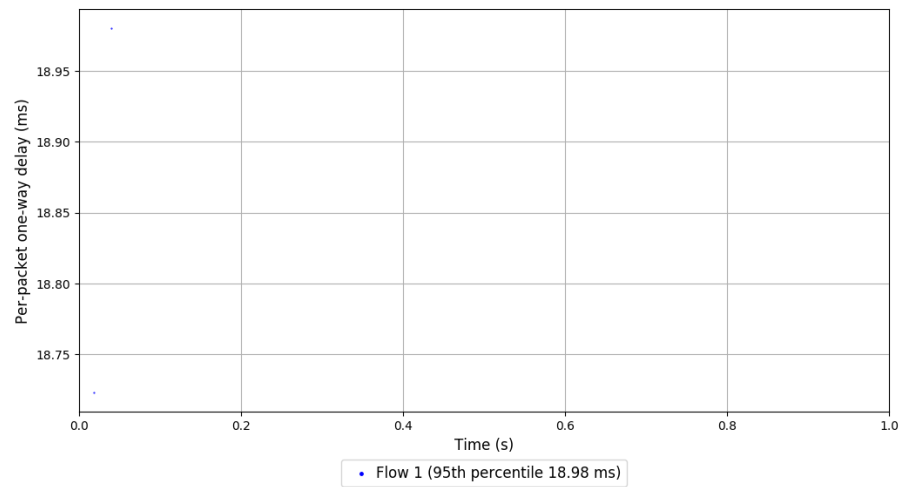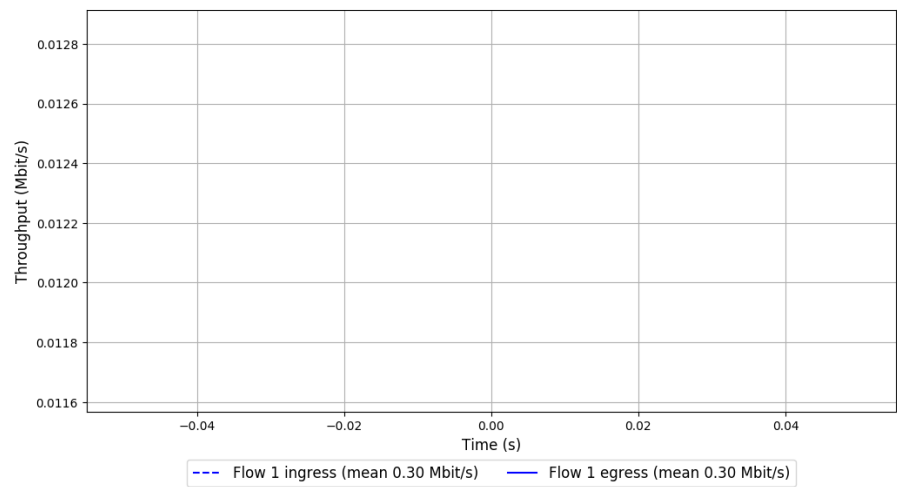Flow 1 ingress (mean 0.30 Mbit/s) — — —   Flow 1 egress (mean 0.30 Mbit/s)

Flow 1 (95th percentile 19.15 ms)

Run 10: Statistics of QUIC Cubic

Start at: 2017-08-30 00:02:46
End at: 2017-08-30 00:03:16
Local clock offset: 0.458 ms
Remote clock offset: -2.053 ms

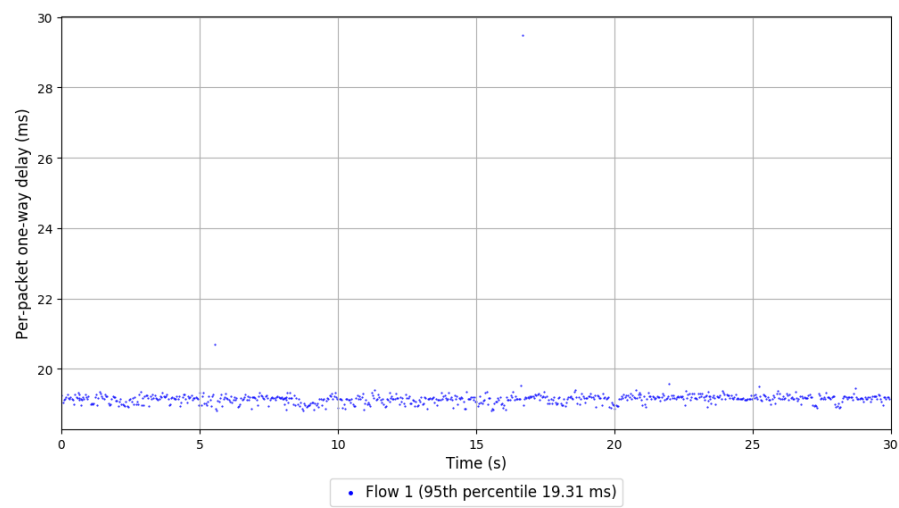## Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 0.30 Mbit/s) —— Flow 1 egress (mean 0.30 Mbit/s)
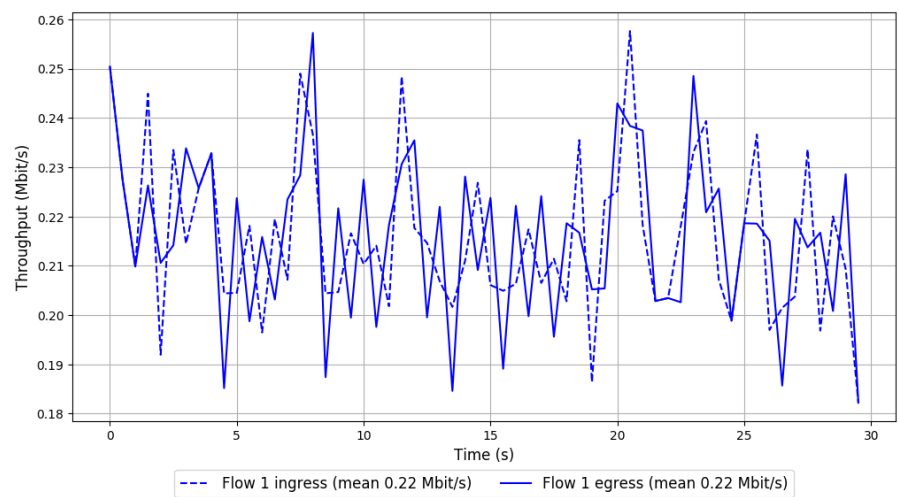

• Flow 1 (95th percentile 18.98 ms)

```
Run 1: Statistics of SCReAM

Start at: 2017-08-29 21:07:44
End at: 2017-08-29 21:08:14
Local clock offset: 1.766 ms
Remote clock offset: -1.201 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.312 ms
Loss rate: 0.00%
```

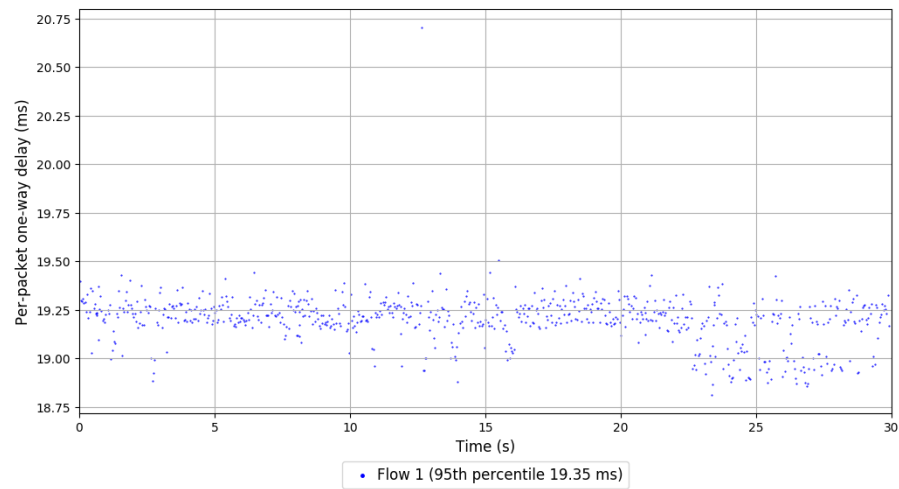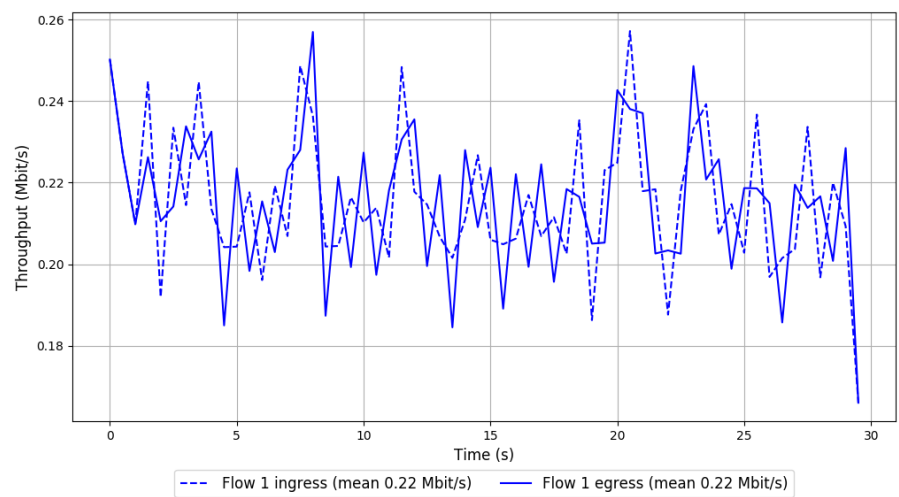Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2017-08-29 21:27:07
End at: 2017-08-29 21:27:37
Local clock offset: 1.61 ms
Remote clock offset: -1.379 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.347 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.347 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) ———

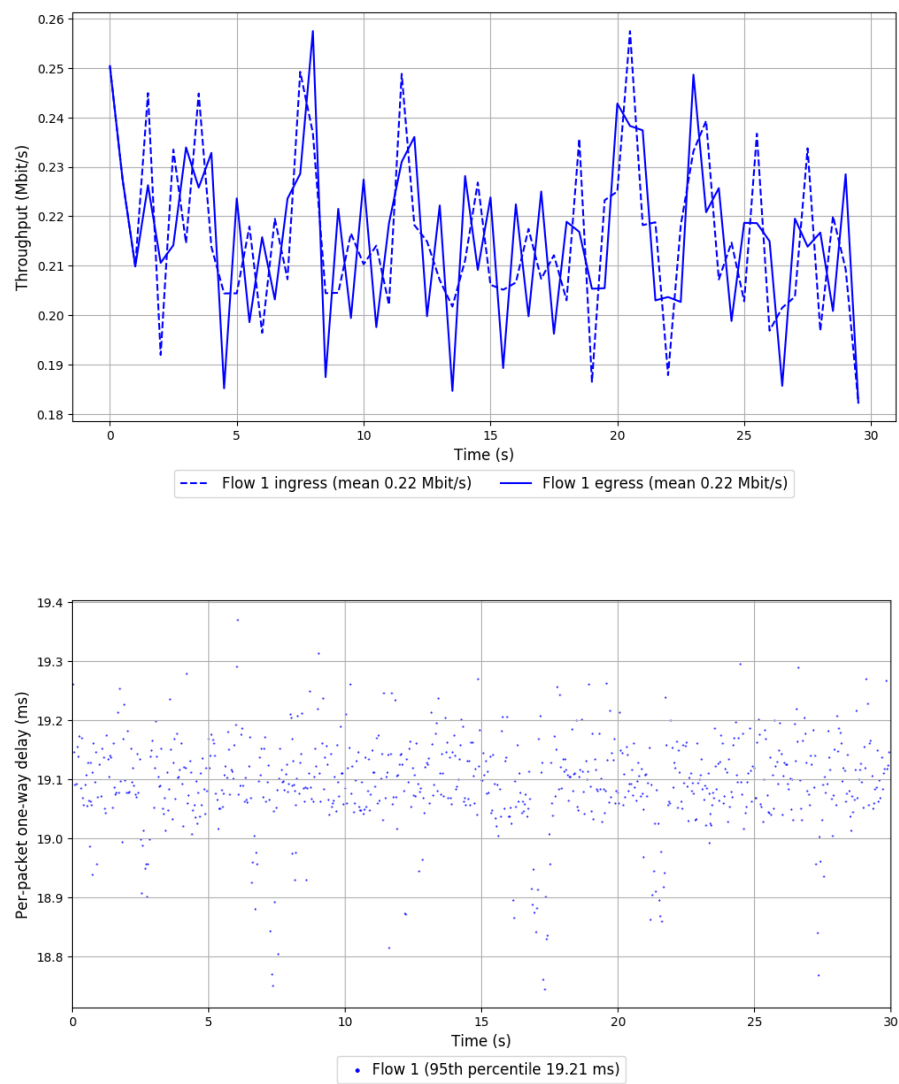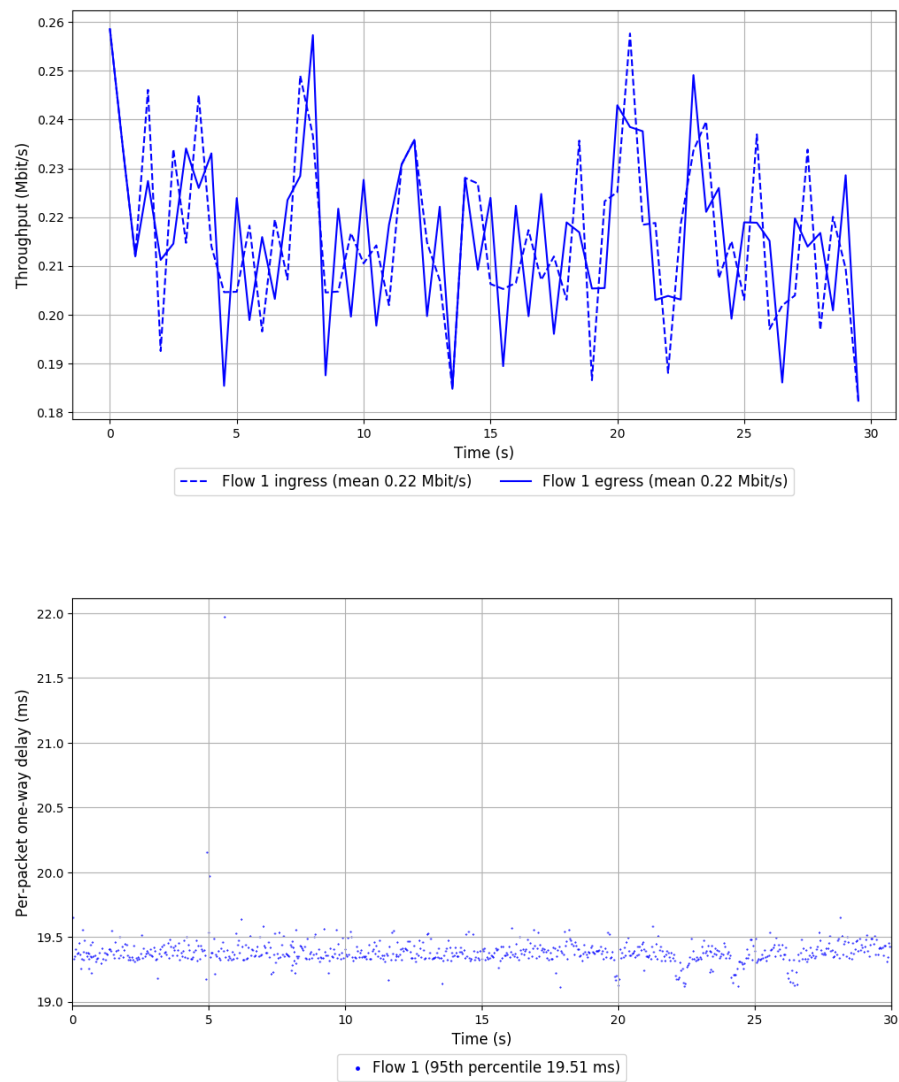• Flow 1 (95th percentile 19.35 ms)

```
Run 3: Statistics of SCReAM

Start at: 2017-08-29 21:47:13
End at: 2017-08-29 21:47:43
Local clock offset: 1.415 ms
Remote clock offset: -1.342 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.207 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.207 ms
Loss rate: 0.00%
```
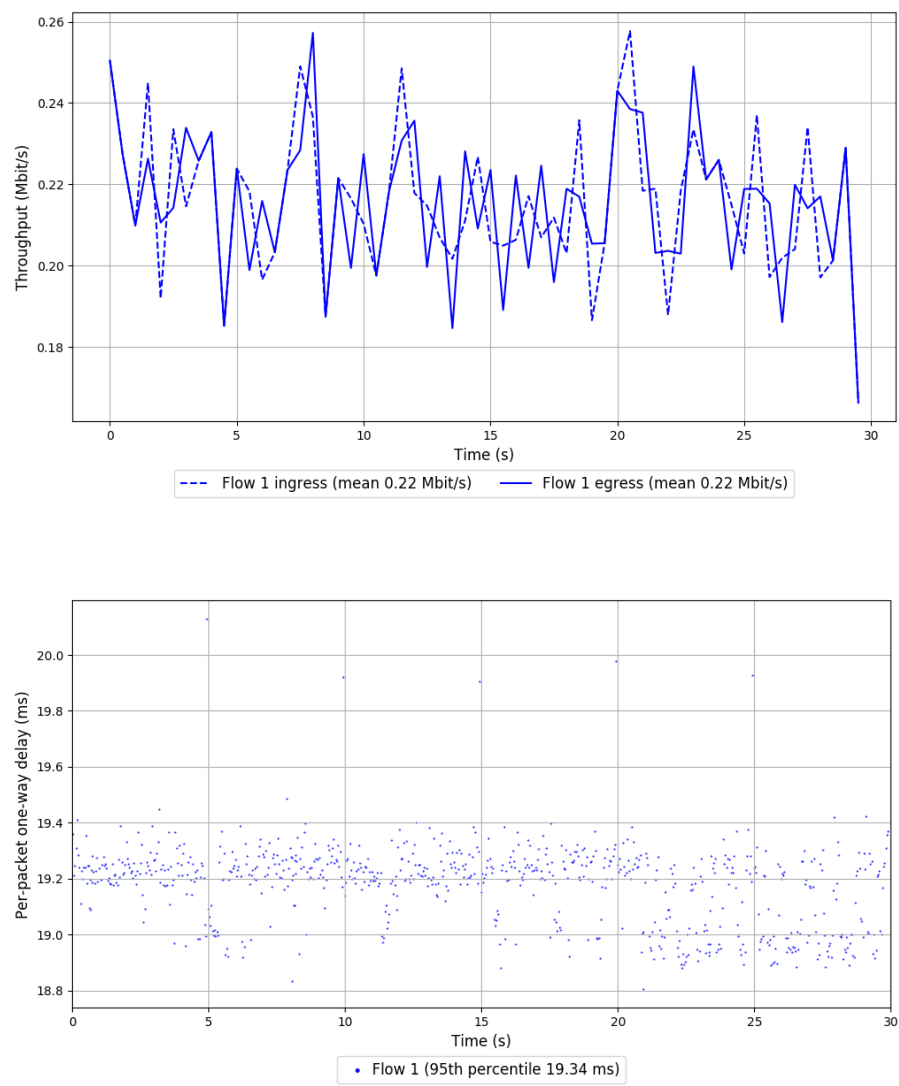
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2017-08-29 22:07:17
End at: 2017-08-29 22:07:47
Local clock offset: 1.266 ms
Remote clock offset: -1.366 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.509 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.509 ms
Loss rate: 0.00%
```
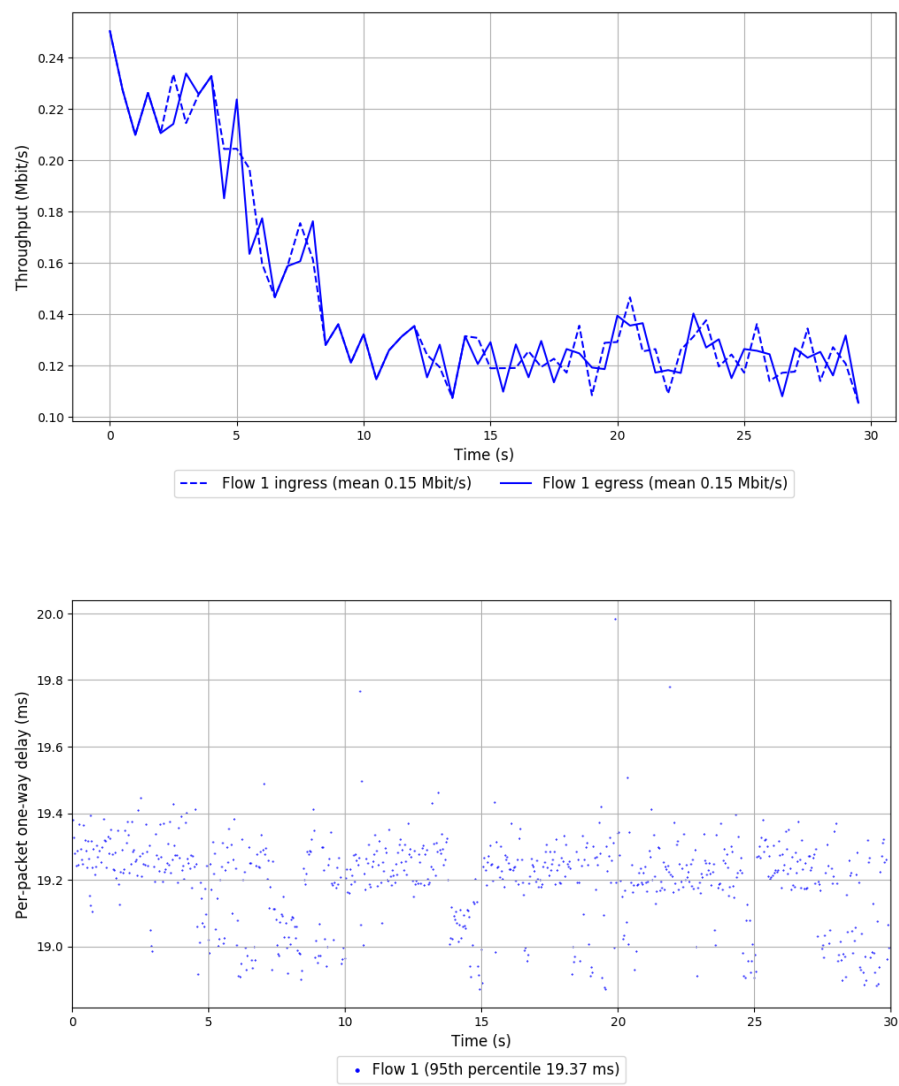
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2017-08-29 22:27:21
End at: 2017-08-29 22:27:51
Local clock offset: 1.29 ms
Remote clock offset: -1.303 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.345 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

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

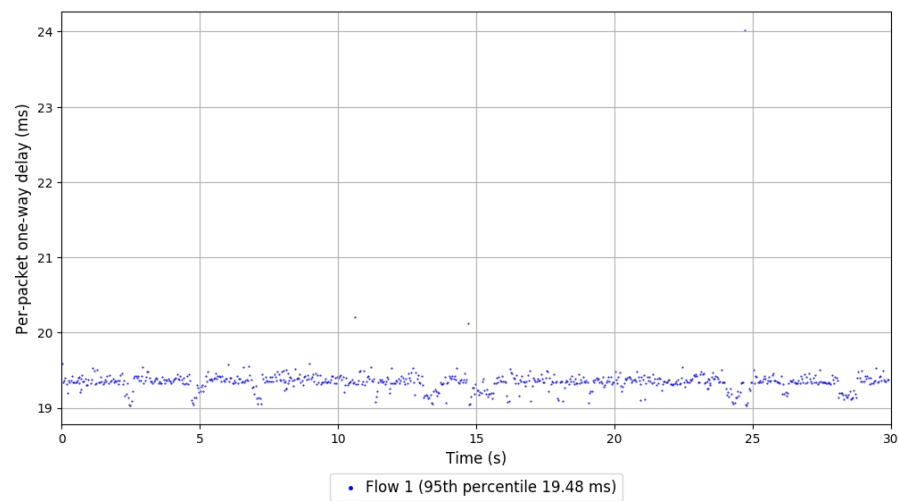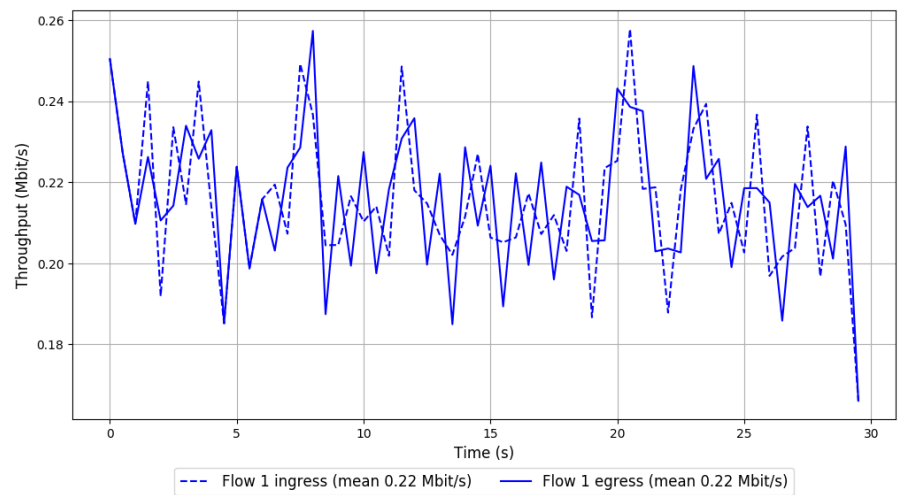Flow 1 (95th percentile 19.34 ms)

```
Run 6: Statistics of SCReAM

Start at: 2017-08-29 22:47:03
End at: 2017-08-29 22:47:33
Local clock offset: 1.027 ms
Remote clock offset: -1.305 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 19.367 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 19.367 ms
Loss rate: 0.18%
```

Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: 2017-08-29 23:07:03
End at: 2017-08-29 23:07:33
Local clock offset: 0.776 ms
Remote clock offset: -1.319 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.481 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.481 ms
Loss rate: 0.00%
```
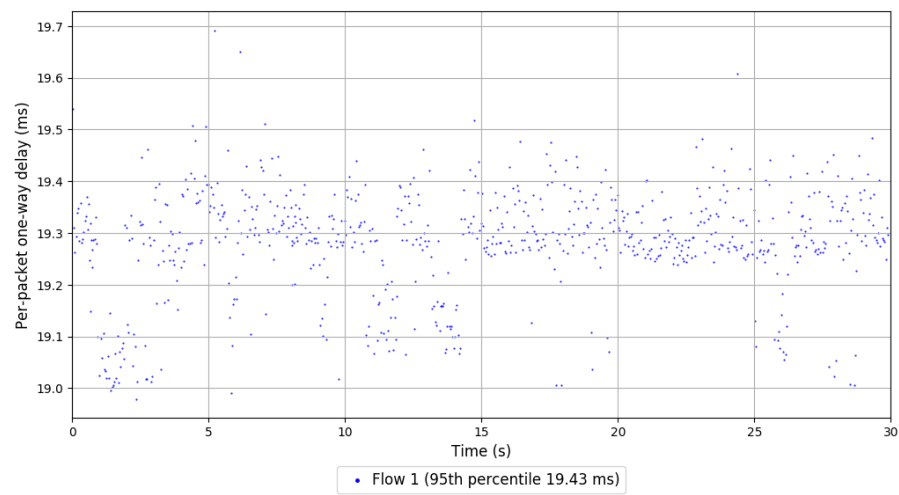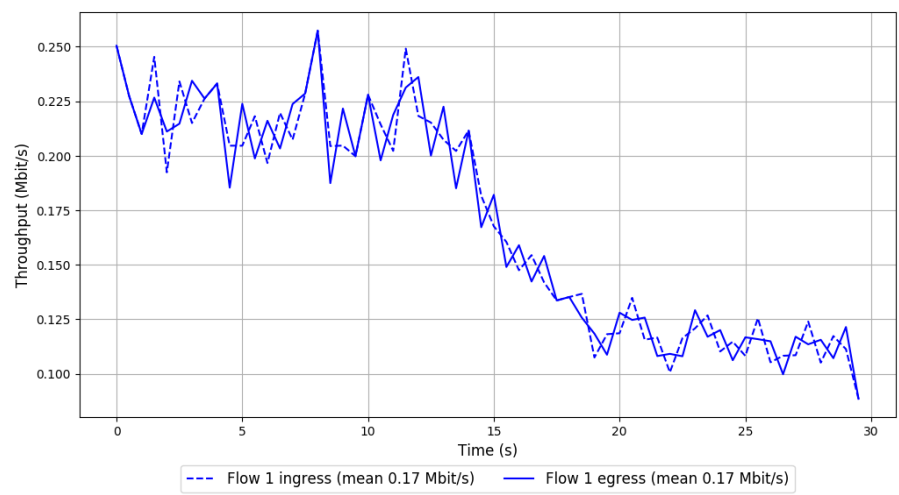
Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: 2017-08-29 23:26:48
End at: 2017-08-29 23:27:18
Local clock offset: 0.71 ms
Remote clock offset: -1.597 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.522 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.522 ms
Loss rate: 0.00%
```
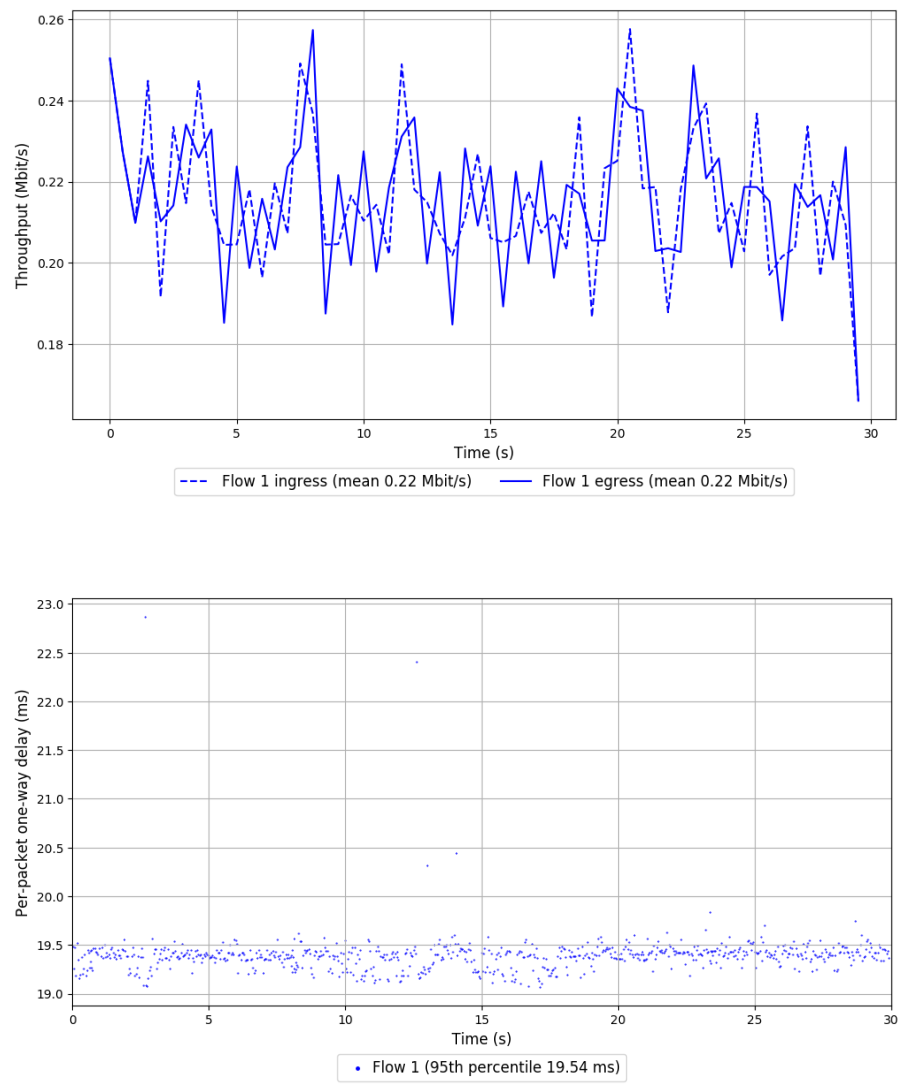
Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: 2017-08-29 23:46:38
End at: 2017-08-29 23:47:08
Local clock offset: 0.49 ms
Remote clock offset: -1.786 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 19.425 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 19.425 ms
Loss rate: 0.17%
```
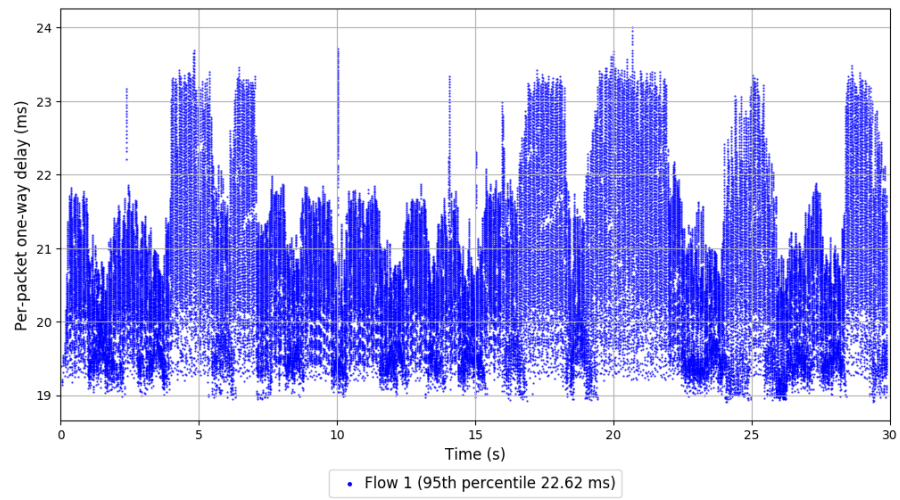
Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2017-08-30 00:06:23
End at: 2017-08-30 00:06:53
Local clock offset: 0.342 ms
Remote clock offset: -1.991 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.541 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.541 ms
Loss rate: 0.00%
```
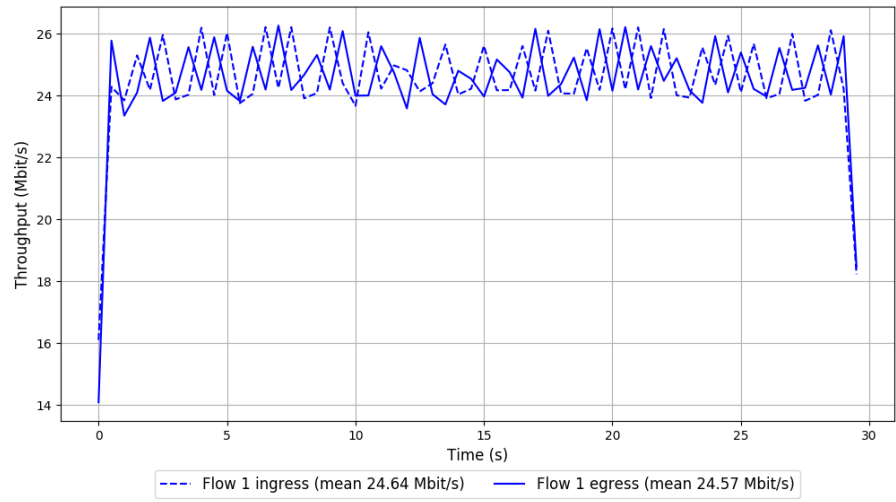
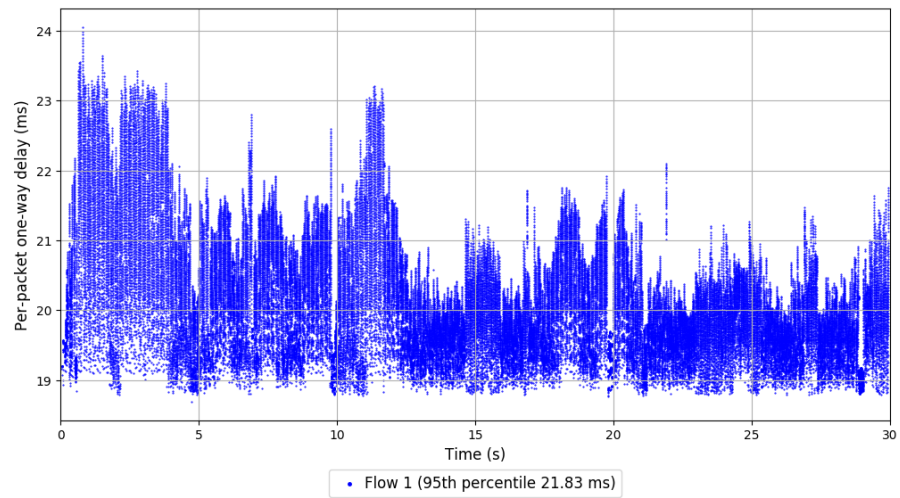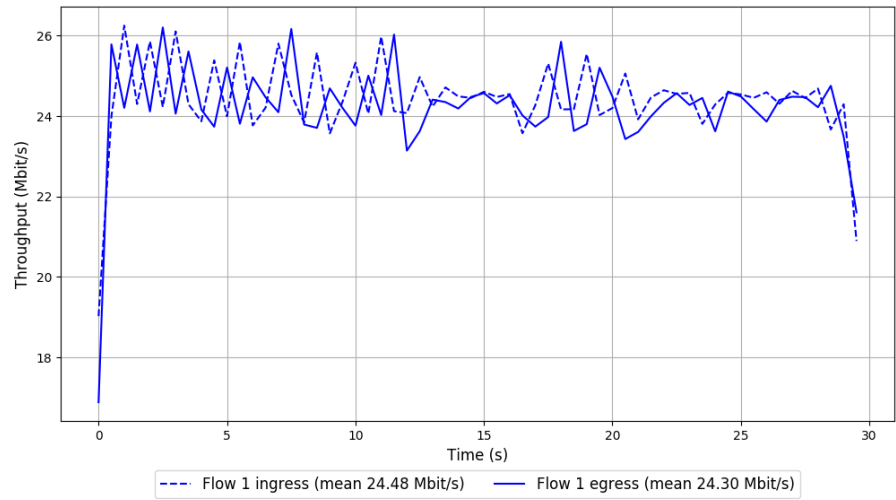## Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of Sprout

Start at: 2017-08-29 20:57:41
End at: 2017-08-29 20:58:11
Local clock offset: 2.002 ms
Remote clock offset: -1.06 ms

# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 22.623 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 24.57 Mbit/s
95th percentile per-packet one-way delay: 22.623 ms
Loss rate: 0.29%
```
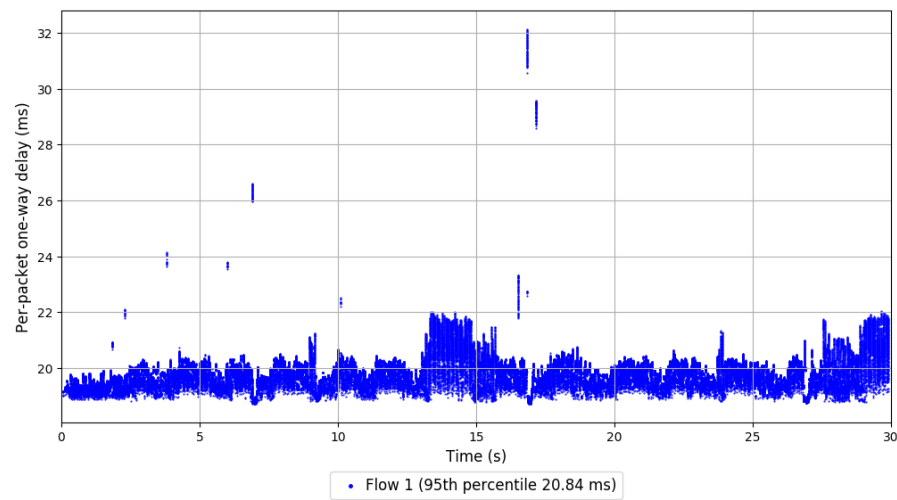
Run 1: Report of Sprout — Data Link

Flow 1 ingress (mean 24.64 Mbit/s)   Flow 1 egress (mean 24.57 Mbit/s)

• Flow 1 (95th percentile 22.62 ms)

```
Run 2: Statistics of Sprout

Start at: 2017-08-29 21:17:00
End at: 2017-08-29 21:17:30
Local clock offset: 1.642 ms
Remote clock offset: -1.317 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 21.832 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 24.30 Mbit/s
95th percentile per-packet one-way delay: 21.832 ms
Loss rate: 0.75%
```
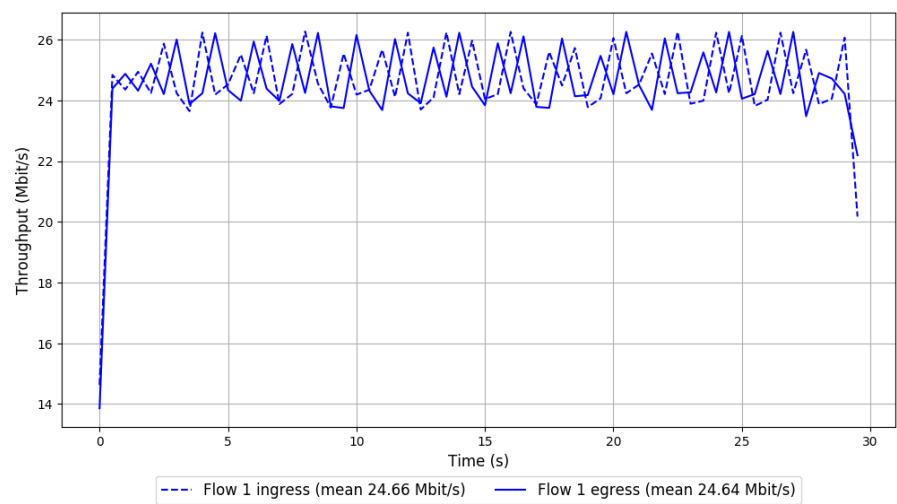
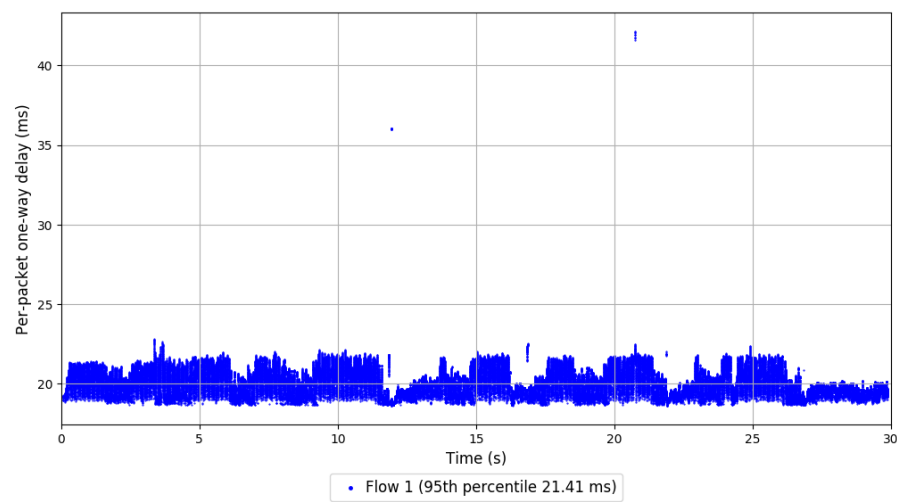Run 2: Report of Sprout — Data Link

Flow 1 ingress (mean 24.48 Mbit/s)   Flow 1 egress (mean 24.30 Mbit/s)

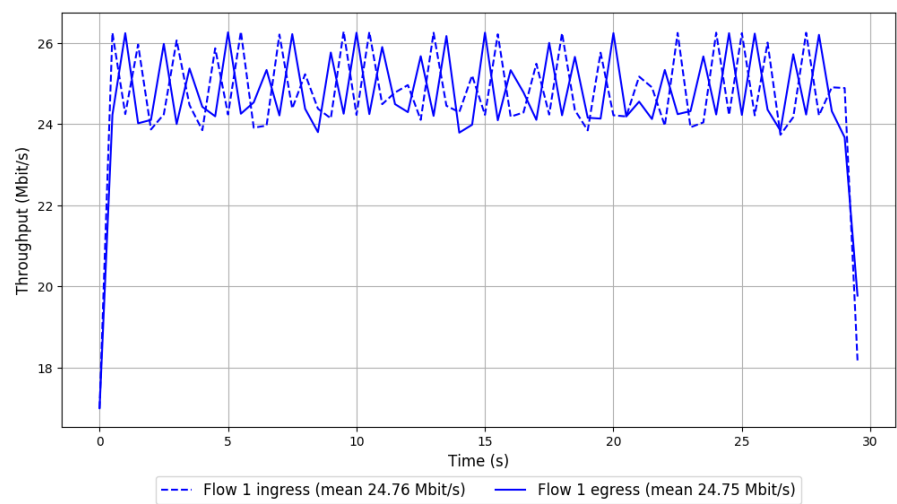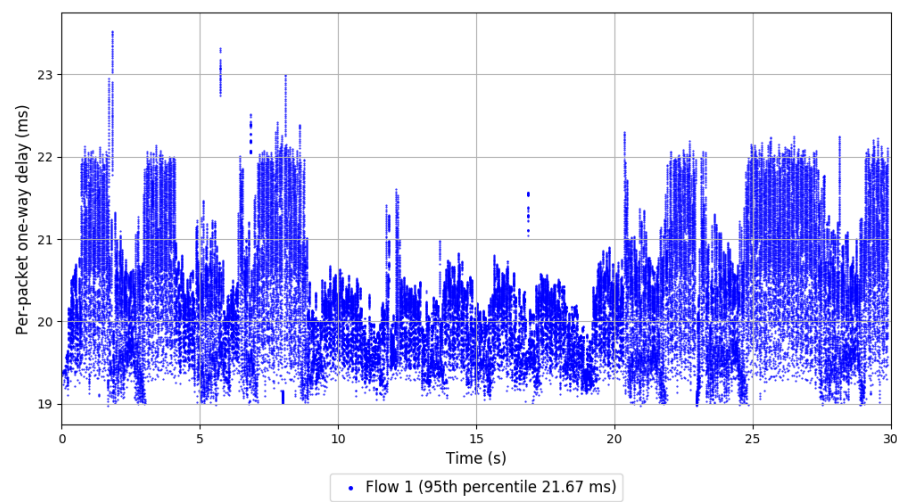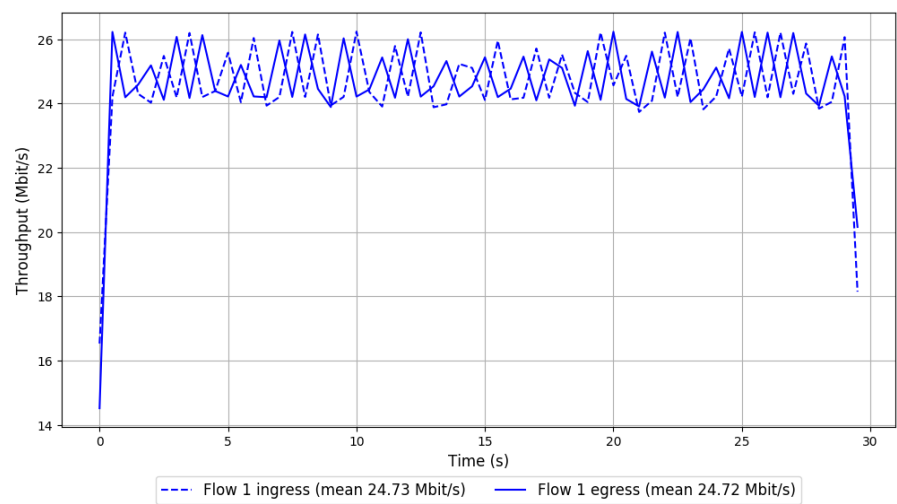• Flow 1 (95th percentile 21.83 ms)

```
Run 3: Statistics of Sprout

Start at: 2017-08-29 21:36:43
End at: 2017-08-29 21:37:13
Local clock offset: 1.37 ms
Remote clock offset: -1.36 ms


# Below is generated by plot.py at 2017-08-30 02:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 20.843 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 24.64 Mbit/s
95th percentile per-packet one-way delay: 20.843 ms
Loss rate: 0.09%
```

Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 24.66 Mbit/s)   Flow 1 egress (mean 24.64 Mbit/s)

Flow 1 (95th percentile 20.84 ms)

```
Run 4: Statistics of Sprout

Start at: 2017-08-29 21:56:52
End at: 2017-08-29 21:57:22
Local clock offset: 1.386 ms
Remote clock offset: -1.461 ms


# Below is generated by plot.py at 2017-08-30 02:32:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 21.408 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 24.75 Mbit/s
95th percentile per-packet one-way delay: 21.408 ms
Loss rate: 0.04%
```

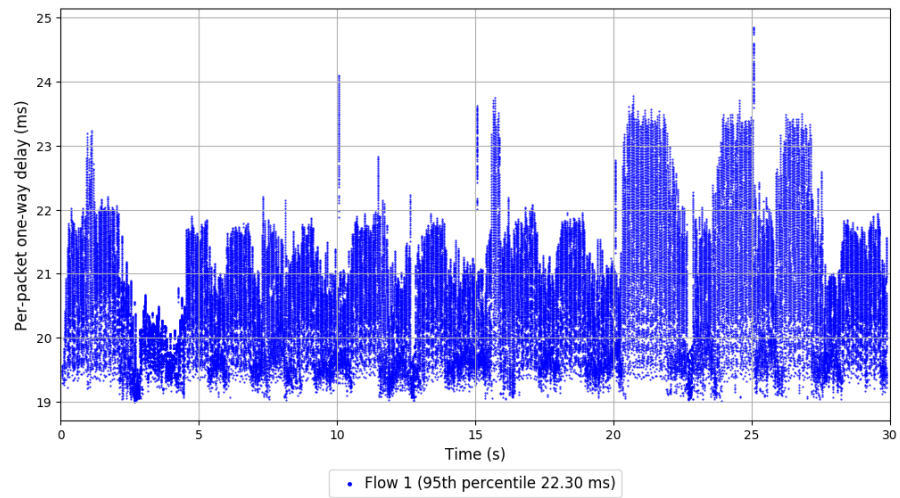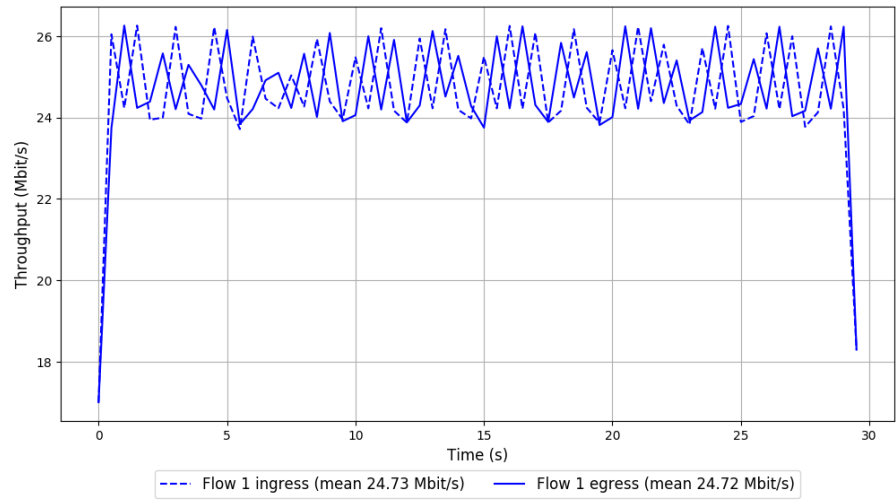Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2017-08-29 22:16:53
End at: 2017-08-29 22:17:23
Local clock offset: 1.261 ms
Remote clock offset: -1.292 ms


# Below is generated by plot.py at 2017-08-30 02:32:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 21.669 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 21.669 ms
Loss rate: 0.03%
```

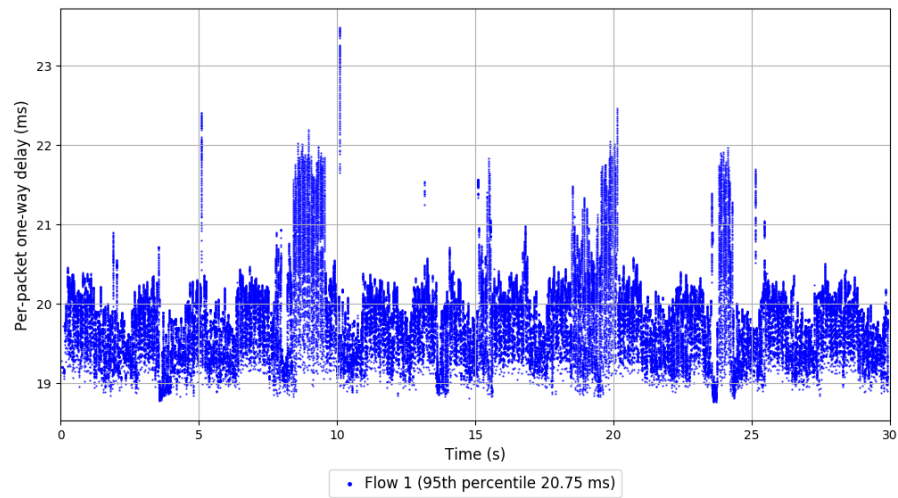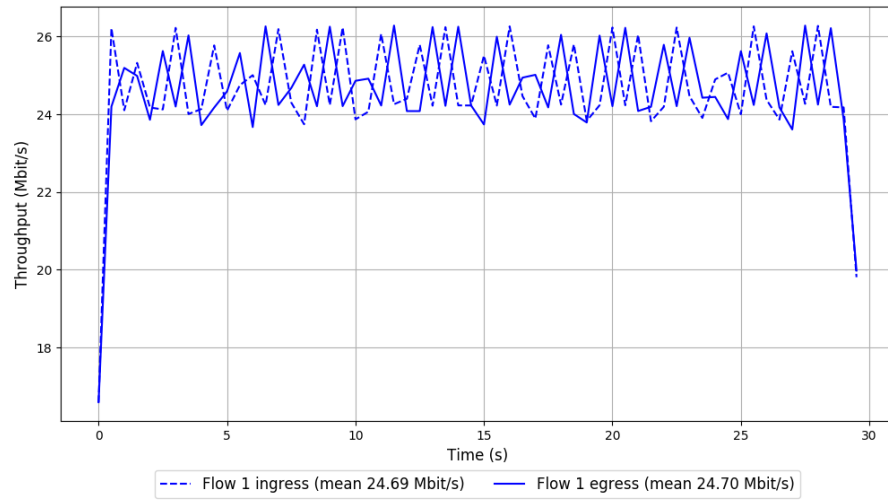## Run 5: Report of Sprout — Data Link

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```
Run 6: Statistics of Sprout

Start at: 2017-08-29 22:36:45
End at: 2017-08-29 22:37:15
Local clock offset: 1.075 ms
Remote clock offset: -1.279 ms


# Below is generated by plot.py at 2017-08-30 02:32:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 22.304 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 22.304 ms
Loss rate: 0.03%
```

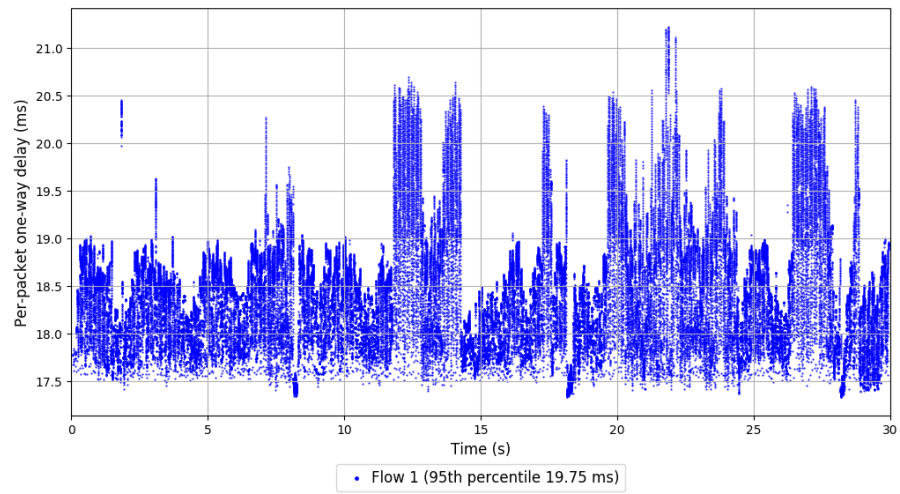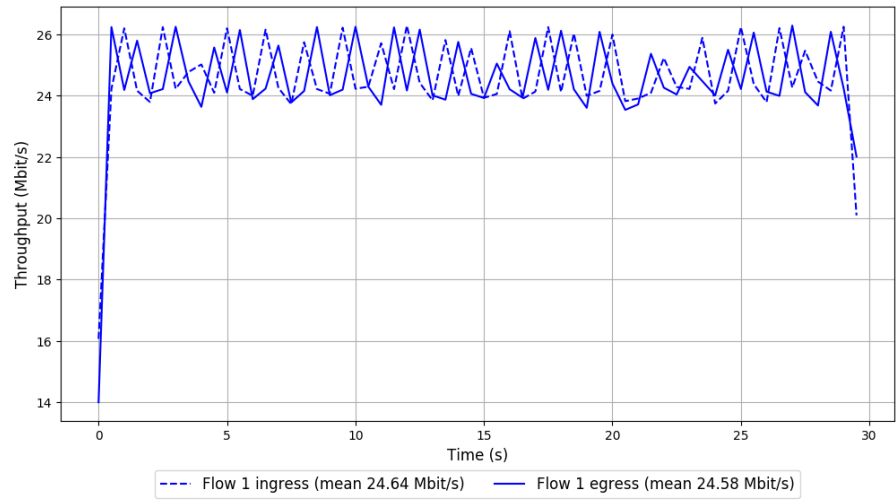Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2017-08-29 22:56:44
End at: 2017-08-29 22:57:14
Local clock offset: 0.825 ms
Remote clock offset: -1.325 ms


# Below is generated by plot.py at 2017-08-30 02:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 20.752 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 20.752 ms
Loss rate: 0.04%
```

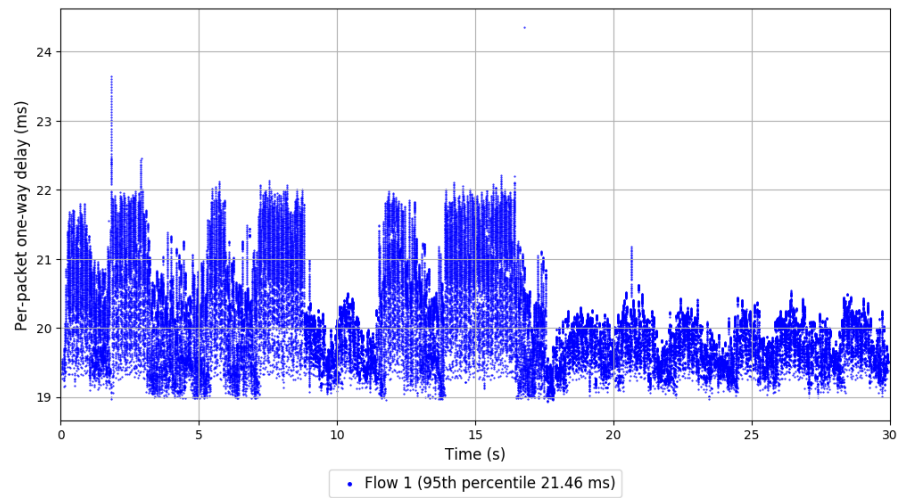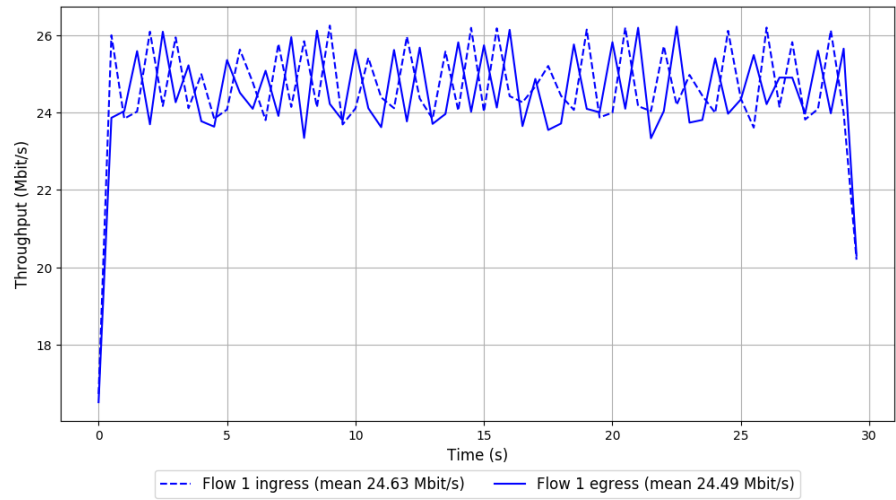Run 7: Report of Sprout — Data Link

Flow 1 ingress (mean 24.69 Mbit/s)   Flow 1 egress (mean 24.70 Mbit/s)

Flow 1 (95th percentile 20.75 ms)

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```
Run 8: Statistics of Sprout

Start at: 2017-08-29 23:16:40
End at: 2017-08-29 23:17:10
Local clock offset: 0.757 ms
Remote clock offset: -1.355 ms


# Below is generated by plot.py at 2017-08-30 02:32:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 19.755 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 24.58 Mbit/s
95th percentile per-packet one-way delay: 19.755 ms
Loss rate: 0.25%
```

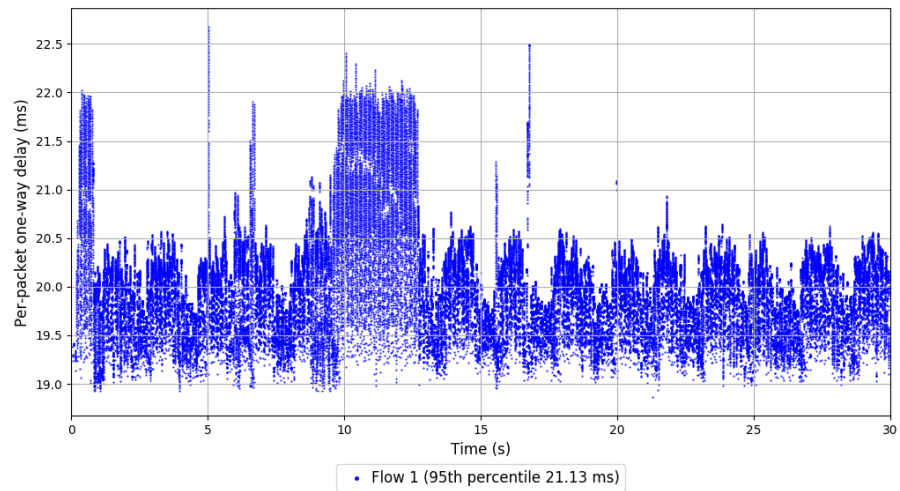## Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 24.64 Mbit/s)   Flow 1 egress (mean 24.58 Mbit/s)

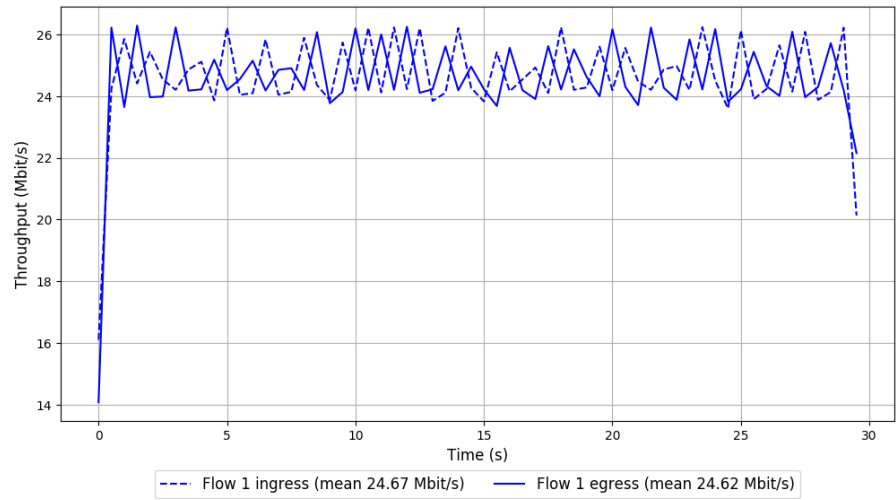Flow 1 (95th percentile 19.75 ms)

```
Run 9: Statistics of Sprout

Start at: 2017-08-29 23:36:24
End at: 2017-08-29 23:36:54
Local clock offset: 0.606 ms
Remote clock offset: -1.806 ms


# Below is generated by plot.py at 2017-08-30 02:32:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 21.463 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 24.49 Mbit/s
95th percentile per-packet one-way delay: 21.463 ms
Loss rate: 0.59%
```
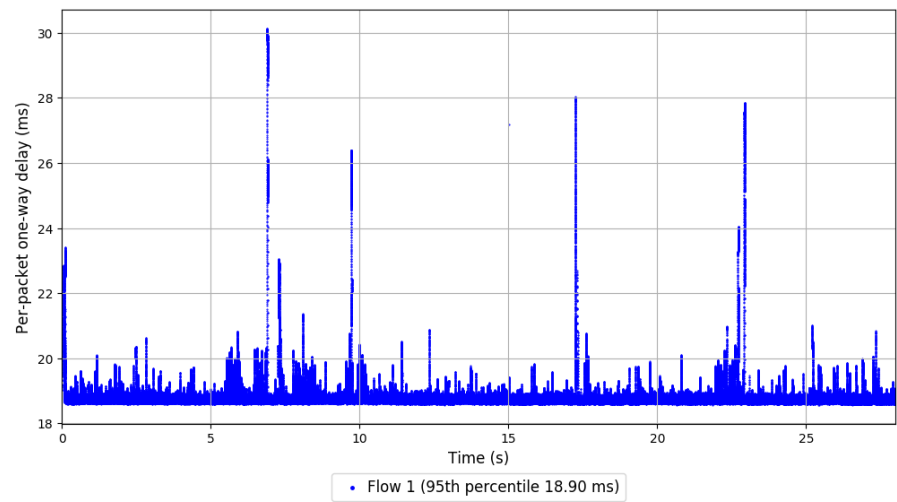
Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 24.63 Mbit/s) ---- Flow 1 egress (mean 24.49 Mbit/s) ——

Flow 1 (95th percentile 21.46 ms)

```
Run 10: Statistics of Sprout

Start at: 2017-08-29 23:56:13
End at: 2017-08-29 23:56:43
Local clock offset: 0.464 ms
Remote clock offset: -2.022 ms


# Below is generated by plot.py at 2017-08-30 02:32:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 21.134 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 21.134 ms
Loss rate: 0.18%
```
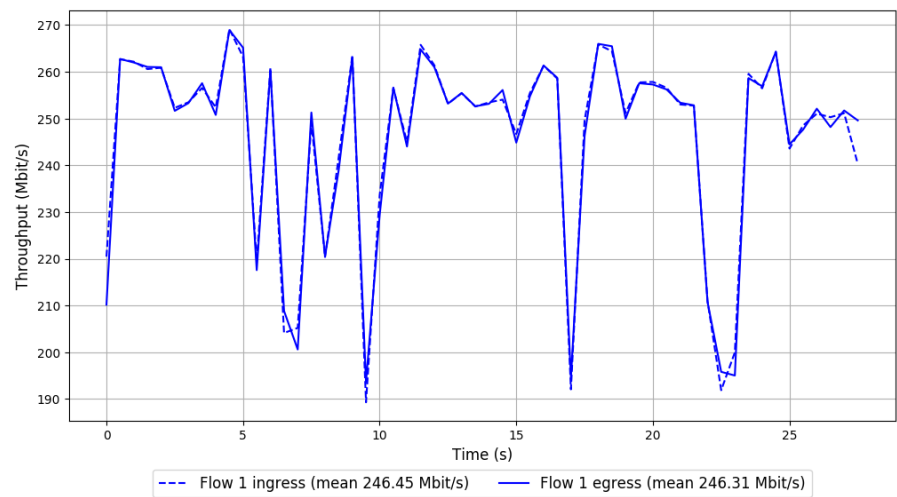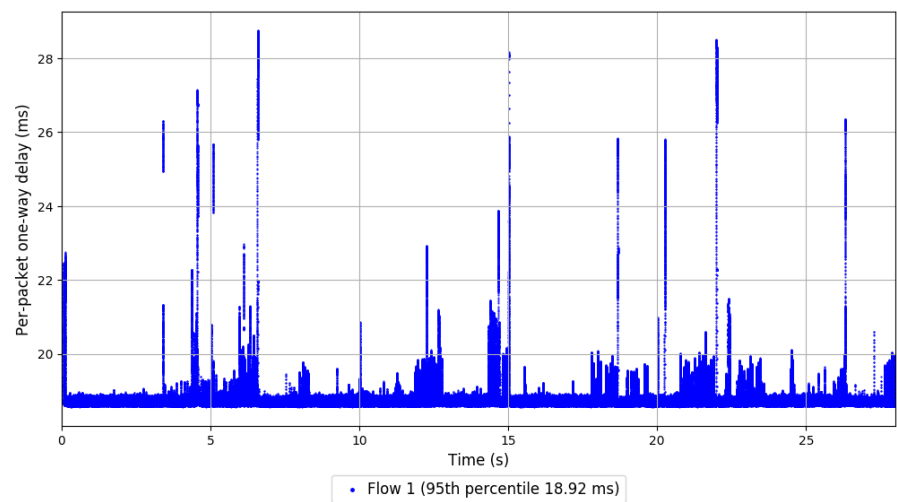
Run 10: Report of Sprout — Data Link

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

Start at: 2017-08-29 20:49:16
End at: 2017-08-29 20:49:46
Local clock offset: 2.085 ms
Remote clock offset: -1.264 ms


# Below is generated by plot.py at 2017-08-30 02:33:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.31 Mbit/s
95th percentile per-packet one-way delay: 18.904 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 246.31 Mbit/s
95th percentile per-packet one-way delay: 18.904 ms
Loss rate: 0.07%
```
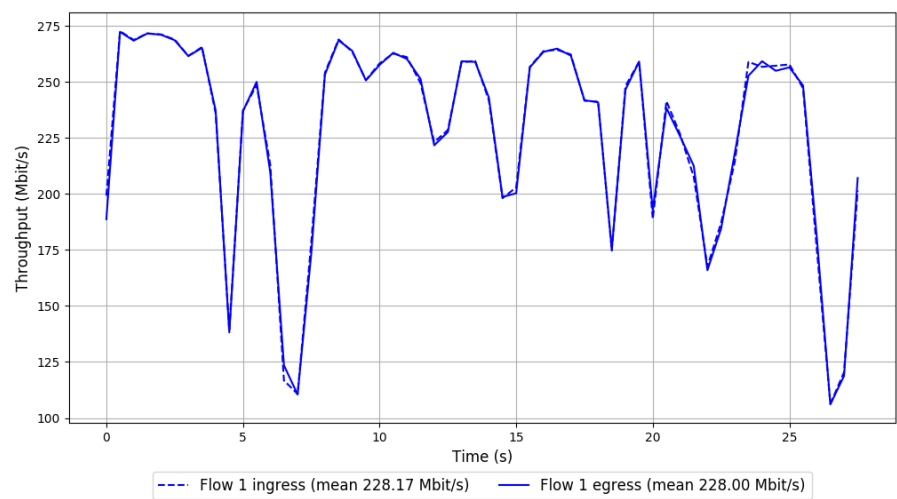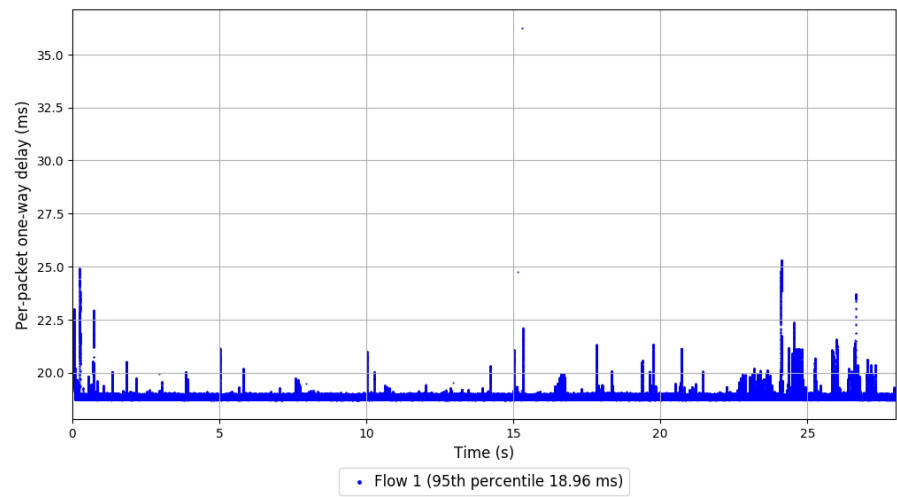
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 246.45 Mbit/s) --- Flow 1 egress (mean 246.31 Mbit/s)

Flow 1 (95th percentile 18.90 ms)

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

Start at: 2017-08-29 21:08:54
End at: 2017-08-29 21:09:24
Local clock offset: 1.846 ms
Remote clock offset: -1.288 ms


# Below is generated by plot.py at 2017-08-30 02:33:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.00 Mbit/s
95th percentile per-packet one-way delay: 18.922 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 228.00 Mbit/s
95th percentile per-packet one-way delay: 18.922 ms
Loss rate: 0.08%
```
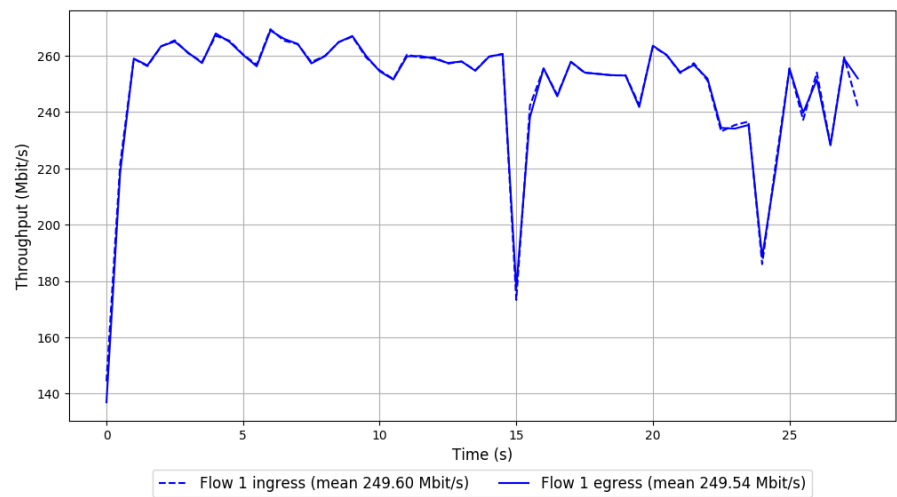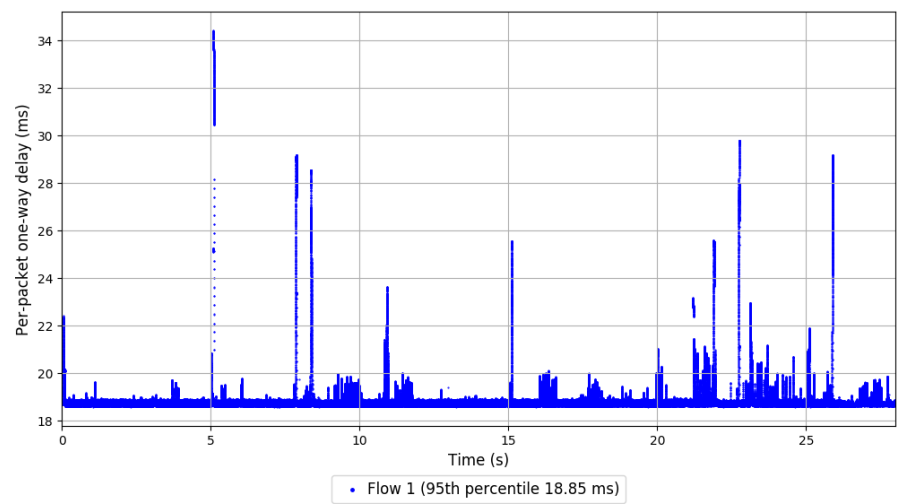
Run 2: Report of TaoVA-100x — Data Link

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

Start at: 2017-08-29 21:28:17
End at: 2017-08-29 21:28:47
Local clock offset: 1.58 ms
Remote clock offset: -1.277 ms


# Below is generated by plot.py at 2017-08-30 02:34:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.54 Mbit/s
95th percentile per-packet one-way delay: 18.959 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 249.54 Mbit/s
95th percentile per-packet one-way delay: 18.959 ms
Loss rate: 0.03%
```
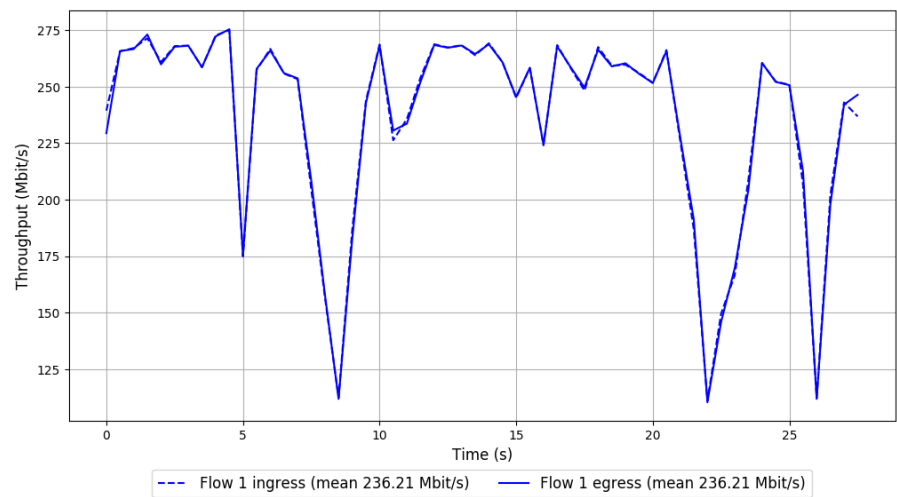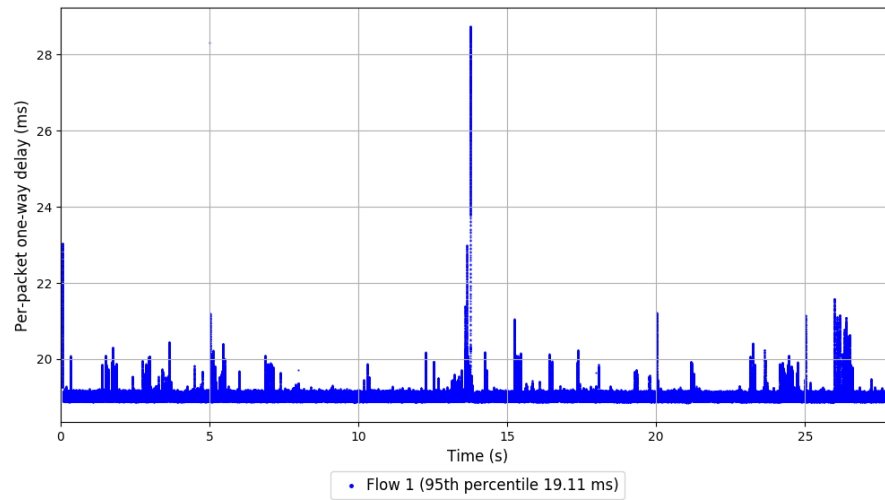
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 249.60 Mbit/s) —— Flow 1 egress (mean 249.54 Mbit/s)

• Flow 1 (95th percentile 18.96 ms)

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

Start at: 2017-08-29 21:48:23
End at: 2017-08-29 21:48:53
Local clock offset: 1.401 ms
Remote clock offset: -1.449 ms


# Below is generated by plot.py at 2017-08-30 02:34:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.21 Mbit/s
95th percentile per-packet one-way delay: 18.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.21 Mbit/s
95th percentile per-packet one-way delay: 18.850 ms
Loss rate: 0.00%
```
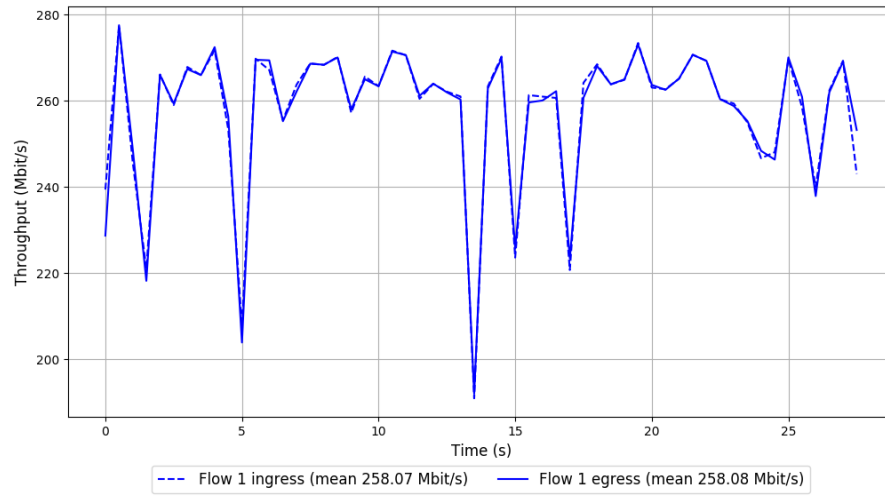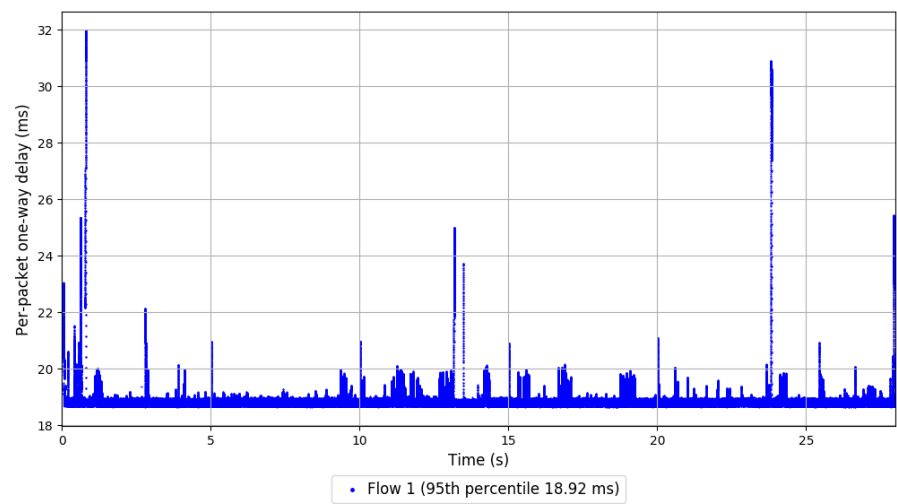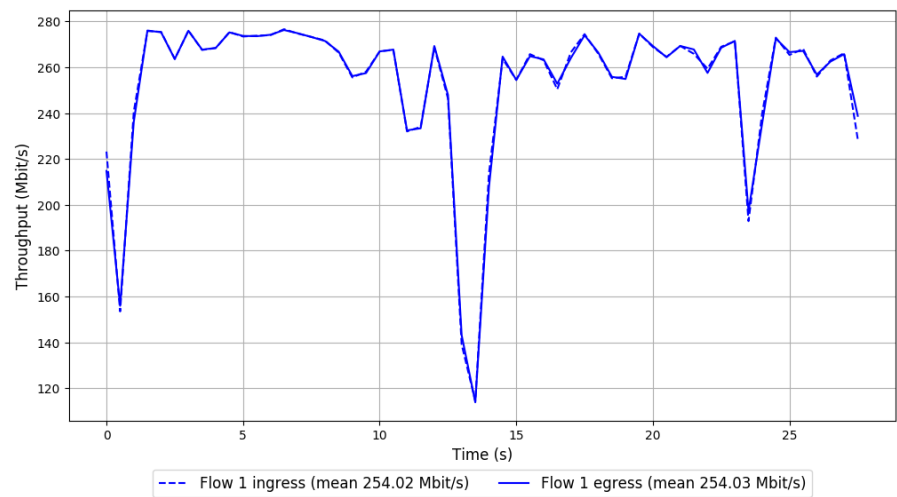
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 236.21 Mbit/s) --- Flow 1 egress (mean 236.21 Mbit/s)

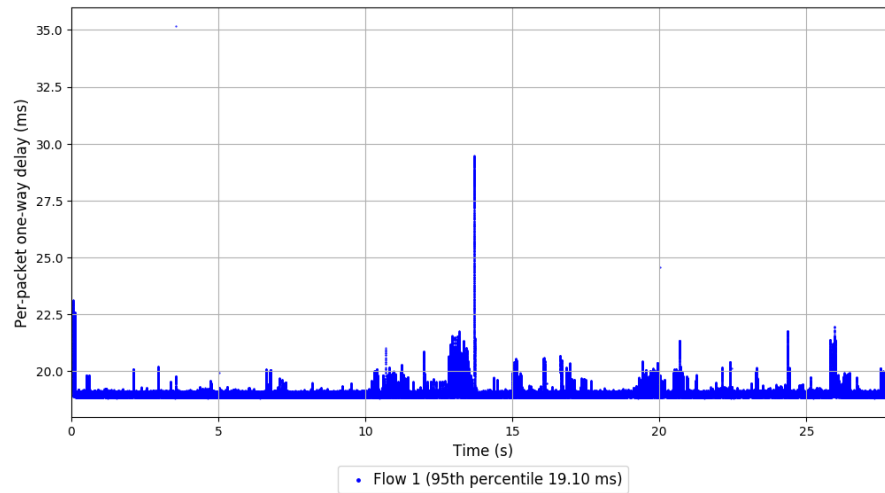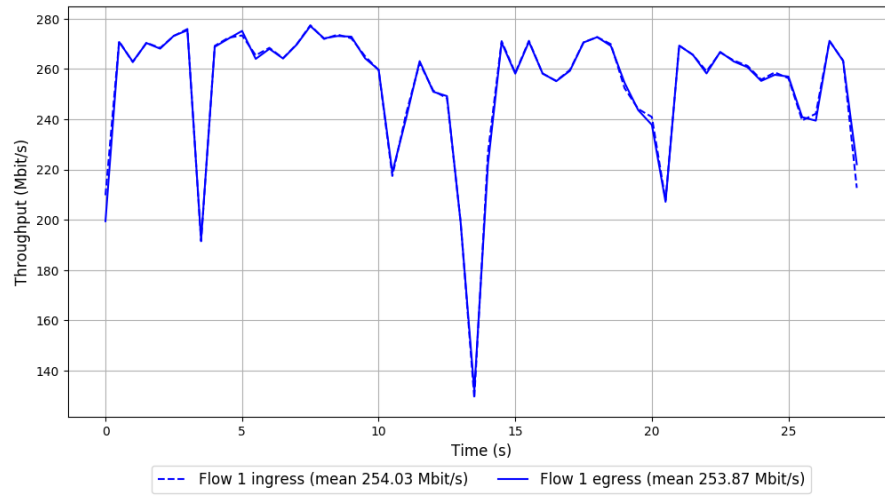

• Flow 1 (95th percentile 18.85 ms)

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

Start at: 2017-08-29 22:08:27
End at: 2017-08-29 22:08:57
Local clock offset: 1.343 ms
Remote clock offset: -1.358 ms


# Below is generated by plot.py at 2017-08-30 02:35:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.08 Mbit/s
95th percentile per-packet one-way delay: 19.112 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 258.08 Mbit/s
95th percentile per-packet one-way delay: 19.112 ms
Loss rate: 0.00%
```

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

Flow 1 ingress (mean 258.07 Mbit/s)   Flow 1 egress (mean 258.08 Mbit/s)

Flow 1 (95th percentile 19.11 ms)

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

Start at: 2017-08-29 22:28:31
End at: 2017-08-29 22:29:01
Local clock offset: 1.188 ms
Remote clock offset: -1.313 ms


# Below is generated by plot.py at 2017-08-30 02:35:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.03 Mbit/s
95th percentile per-packet one-way delay: 18.917 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.03 Mbit/s
95th percentile per-packet one-way delay: 18.917 ms
Loss rate: 0.00%
```
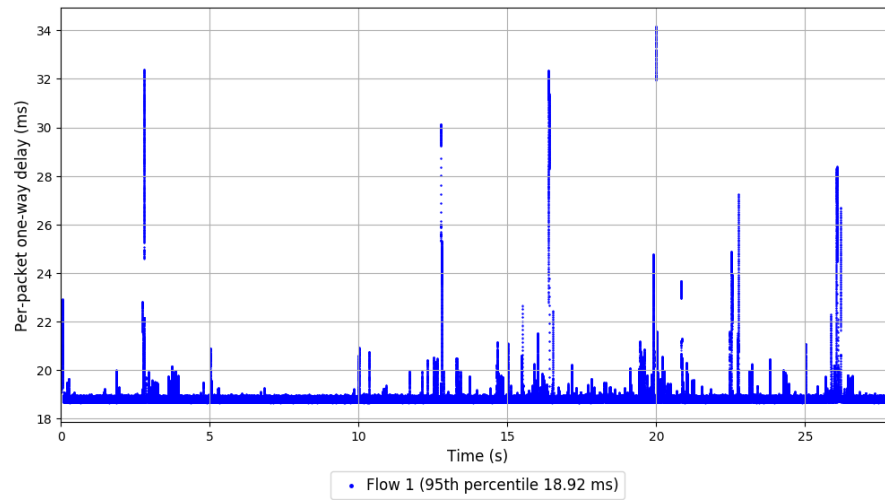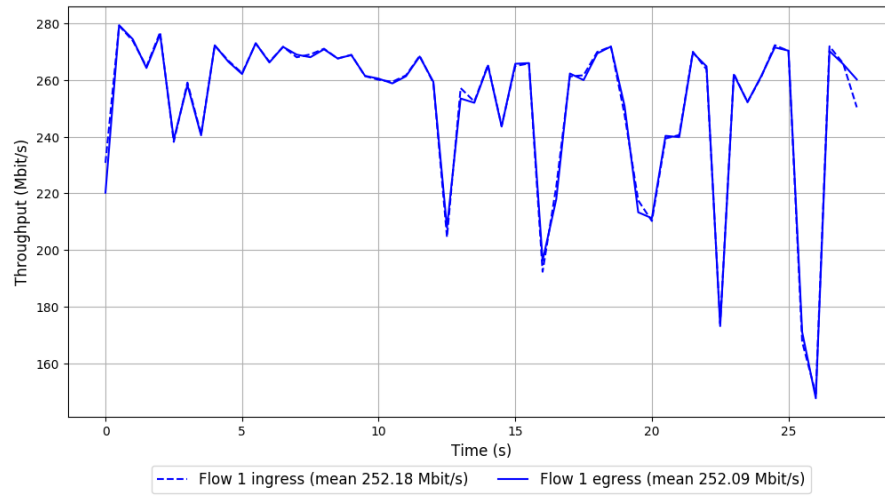
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 254.02 Mbit/s)   Flow 1 egress (mean 254.03 Mbit/s)

Flow 1 (95th percentile 18.92 ms)

235

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

Start at: 2017-08-29 22:48:13
End at: 2017-08-29 22:48:43
Local clock offset: 1.004 ms
Remote clock offset: -1.348 ms


# Below is generated by plot.py at 2017-08-30 02:36:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.87 Mbit/s
95th percentile per-packet one-way delay: 19.097 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 253.87 Mbit/s
95th percentile per-packet one-way delay: 19.097 ms
Loss rate: 0.09%
```
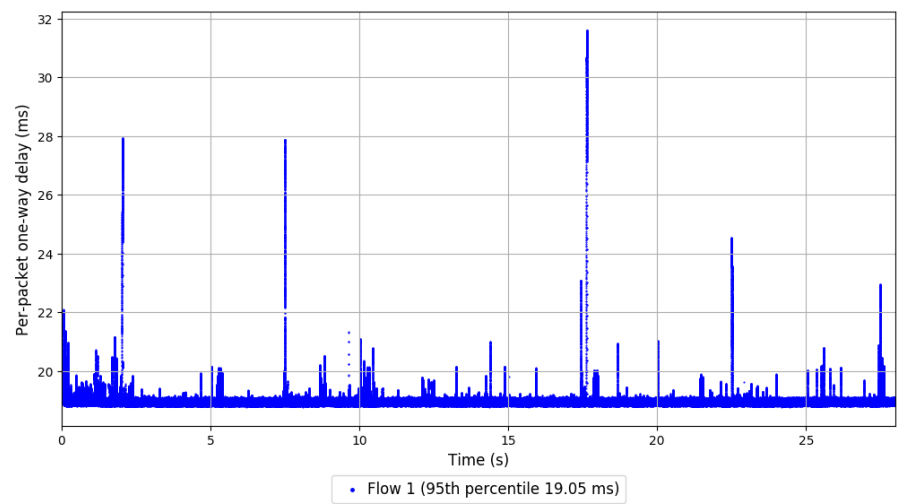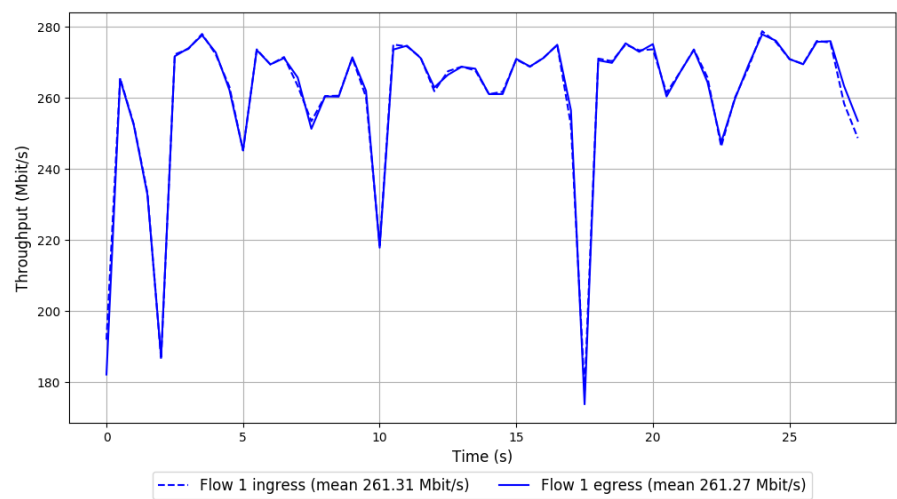
Run 7: Report of TaoVA-100x — Data Link

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

Start at: 2017-08-29 23:08:13
End at: 2017-08-29 23:08:43
Local clock offset: 0.75 ms
Remote clock offset: -1.441 ms


# Below is generated by plot.py at 2017-08-30 02:36:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.09 Mbit/s
95th percentile per-packet one-way delay: 18.921 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 252.09 Mbit/s
95th percentile per-packet one-way delay: 18.921 ms
Loss rate: 0.04%
```
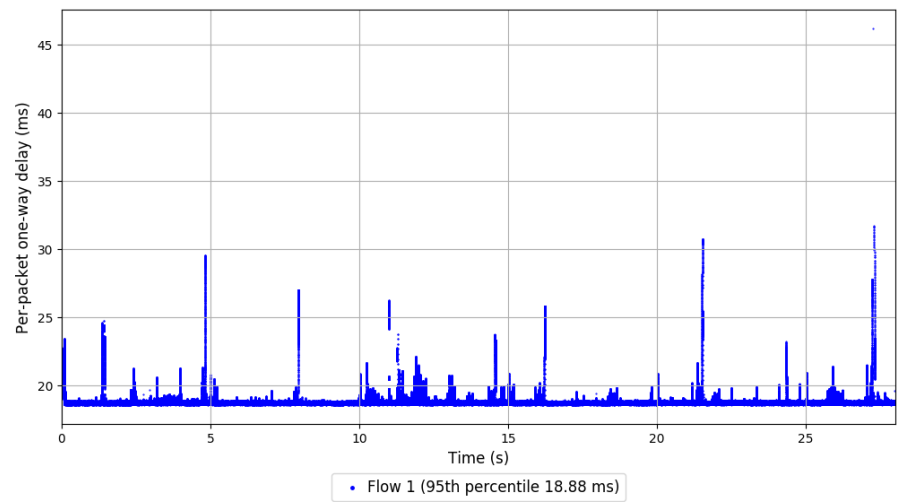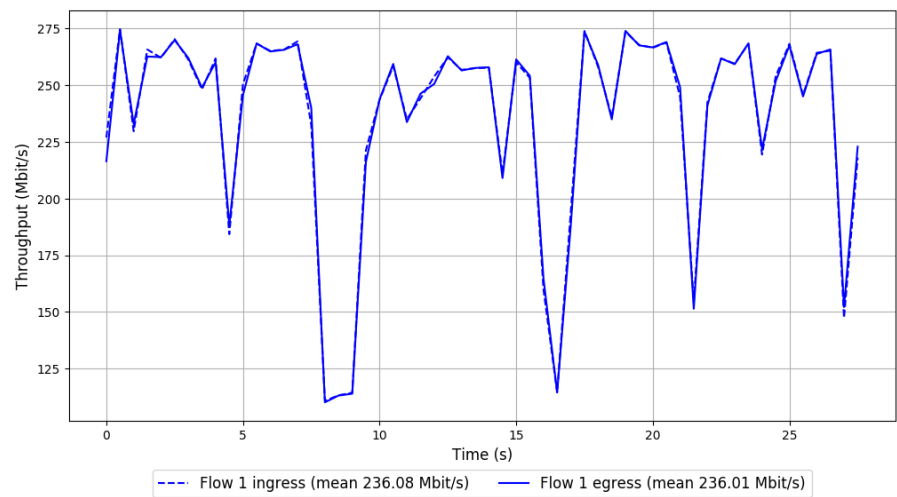
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 252.18 Mbit/s) —— Flow 1 egress (mean 252.09 Mbit/s)

• Flow 1 (95th percentile 18.92 ms)

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

Start at: 2017-08-29 23:27:58
End at: 2017-08-29 23:28:28
Local clock offset: 0.799 ms
Remote clock offset: -1.691 ms


# Below is generated by plot.py at 2017-08-30 02:37:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.27 Mbit/s
95th percentile per-packet one-way delay: 19.054 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 261.27 Mbit/s
95th percentile per-packet one-way delay: 19.054 ms
Loss rate: 0.02%
```
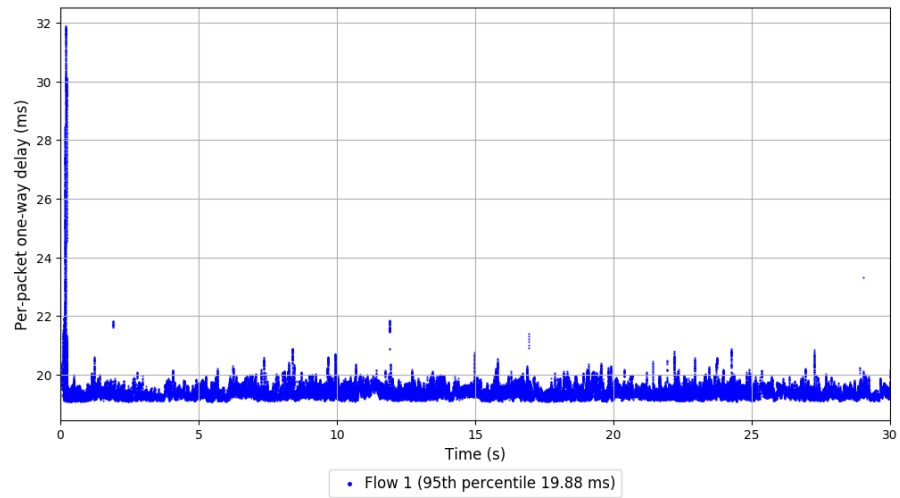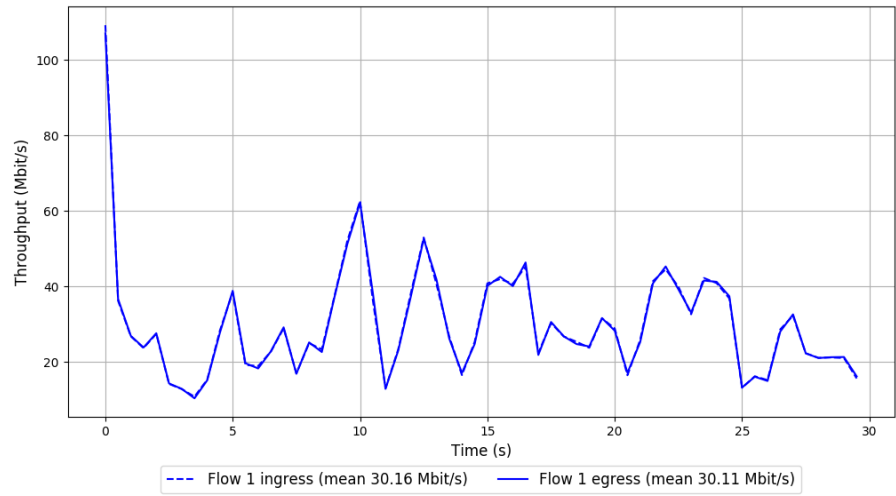
Run 9: Report of TaoVA-100x — Data Link

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

Start at: 2017-08-29 23:47:47
End at: 2017-08-29 23:48:18
Local clock offset: 0.557 ms
Remote clock offset: -1.819 ms


# Below is generated by plot.py at 2017-08-30 02:37:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.01 Mbit/s
95th percentile per-packet one-way delay: 18.884 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 236.01 Mbit/s
95th percentile per-packet one-way delay: 18.884 ms
Loss rate: 0.04%
```

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

Flow 1 ingress (mean 236.08 Mbit/s) --- Flow 1 egress (mean 236.01 Mbit/s)
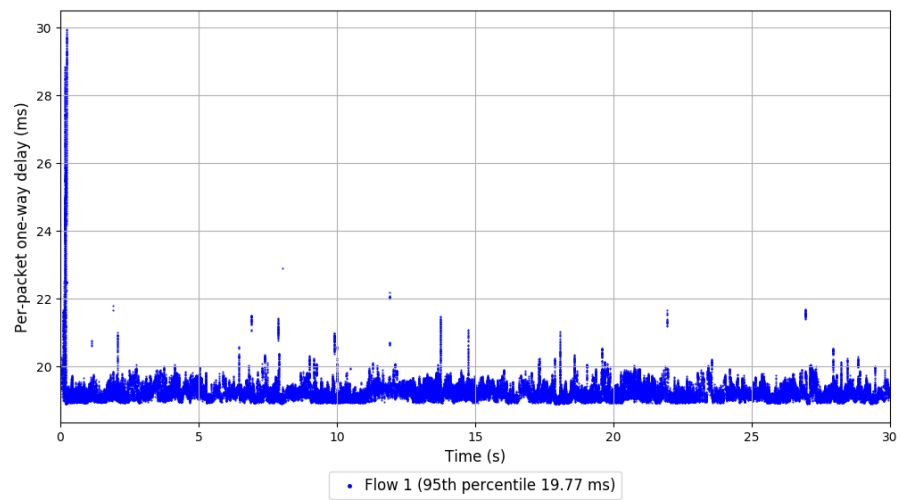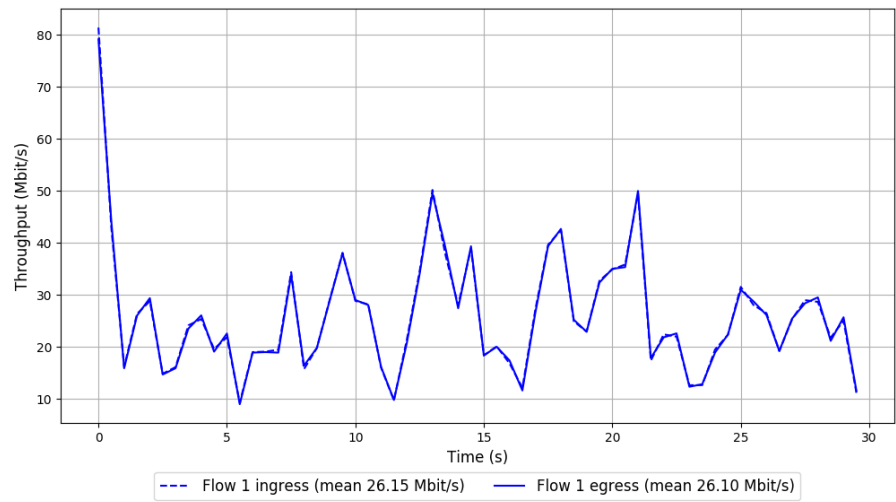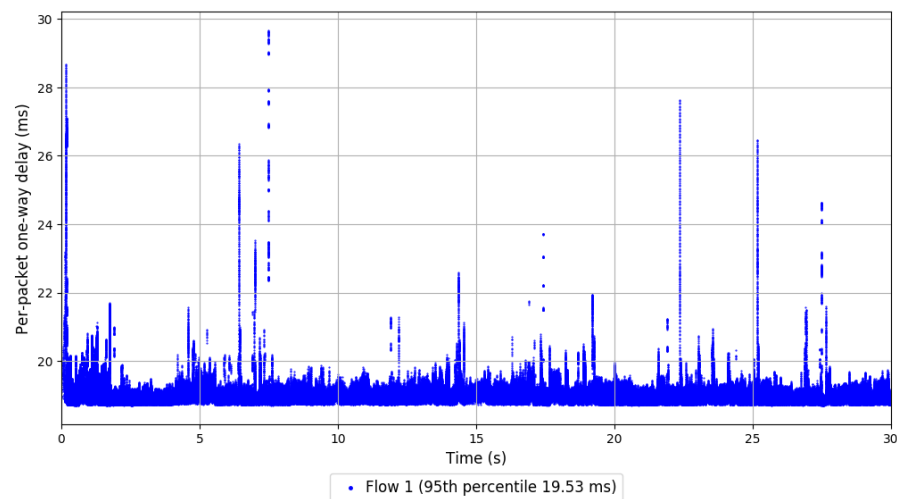

Flow 1 (95th percentile 18.88 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2017-08-29 21:02:53
End at: 2017-08-29 21:03:23
Local clock offset: 1.829 ms
Remote clock offset: -1.025 ms


# Below is generated by plot.py at 2017-08-30 02:37:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.11 Mbit/s
95th percentile per-packet one-way delay: 19.880 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 30.11 Mbit/s
95th percentile per-packet one-way delay: 19.880 ms
Loss rate: 0.17%
```
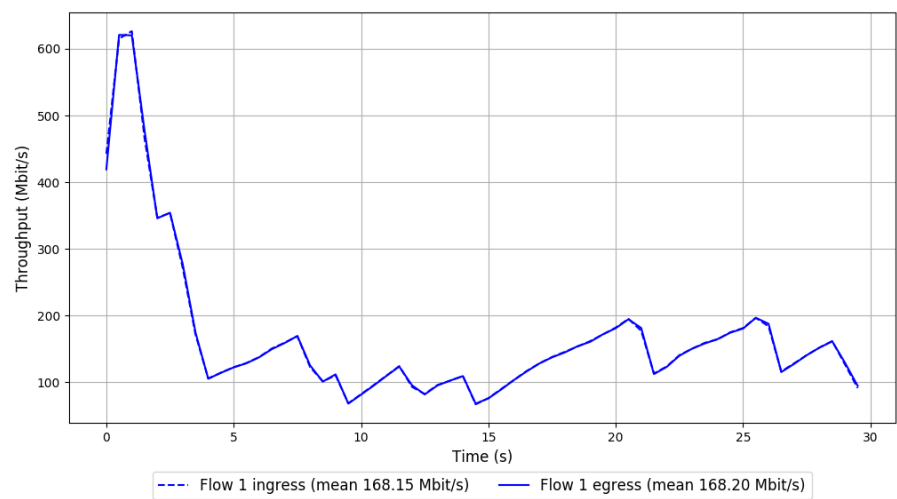
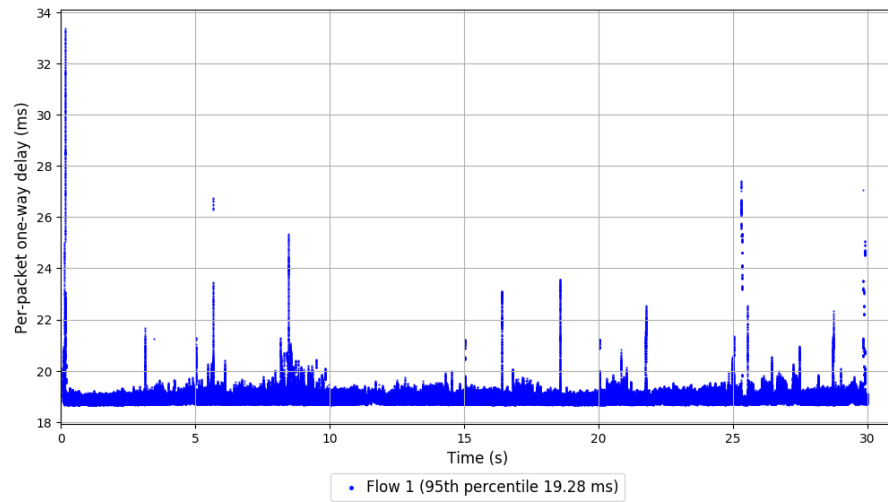Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2017-08-29 21:22:17
End at: 2017-08-29 21:22:47
Local clock offset: 1.571 ms
Remote clock offset: -1.374 ms


# Below is generated by plot.py at 2017-08-30 02:37:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.10 Mbit/s
95th percentile per-packet one-way delay: 19.766 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 26.10 Mbit/s
95th percentile per-packet one-way delay: 19.766 ms
Loss rate: 0.18%
```
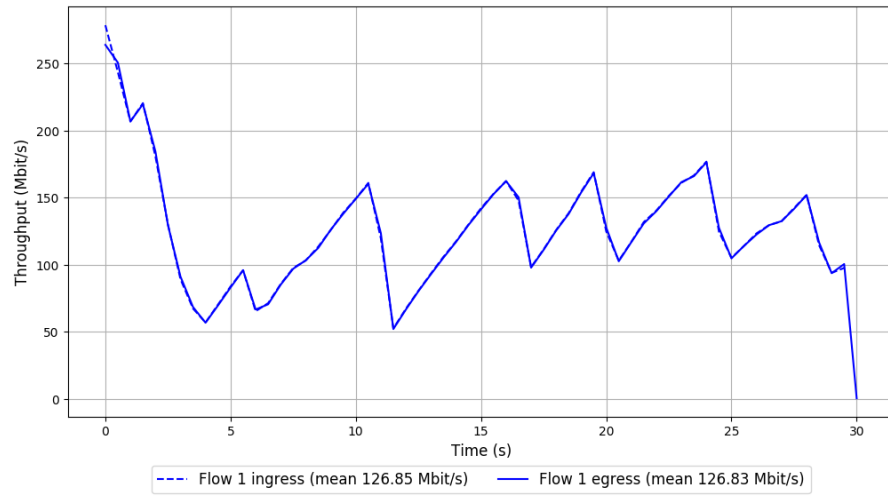
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2017-08-29 21:42:07
End at: 2017-08-29 21:42:37
Local clock offset: 1.323 ms
Remote clock offset: -1.366 ms


# Below is generated by plot.py at 2017-08-30 02:37:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.20 Mbit/s
95th percentile per-packet one-way delay: 19.532 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 168.20 Mbit/s
95th percentile per-packet one-way delay: 19.532 ms
Loss rate: 0.01%
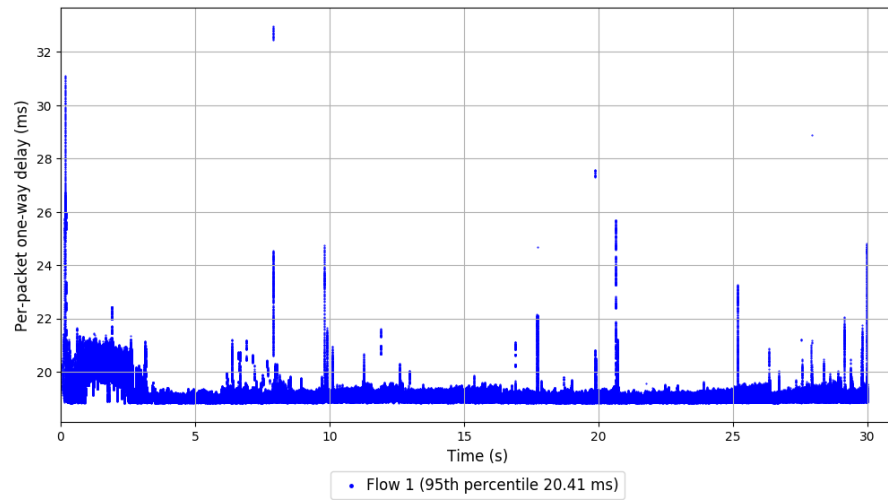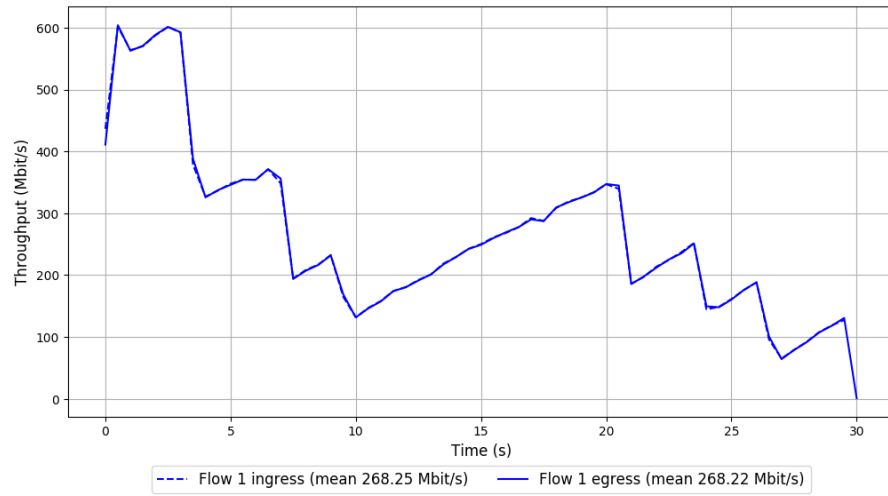```

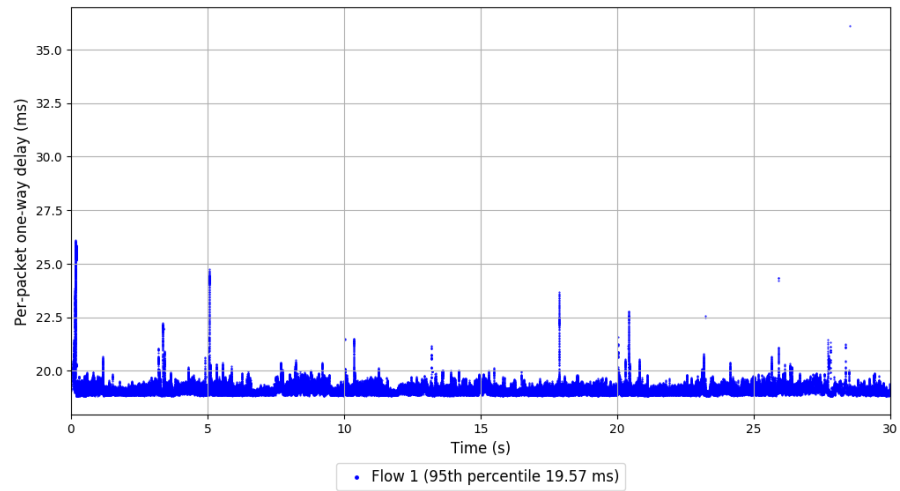Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2017-08-29 22:02:18
End at: 2017-08-29 22:02:48
Local clock offset: 1.295 ms
Remote clock offset: -1.463 ms

Below is generated by plot.py at 2017-08-30 02:37:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 126.83 Mbit/s
95th percentile per-packet one-way delay: 19.279 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 126.83 Mbit/s
95th percentile per-packet one-way delay: 19.279 ms
Loss rate: 0.02%
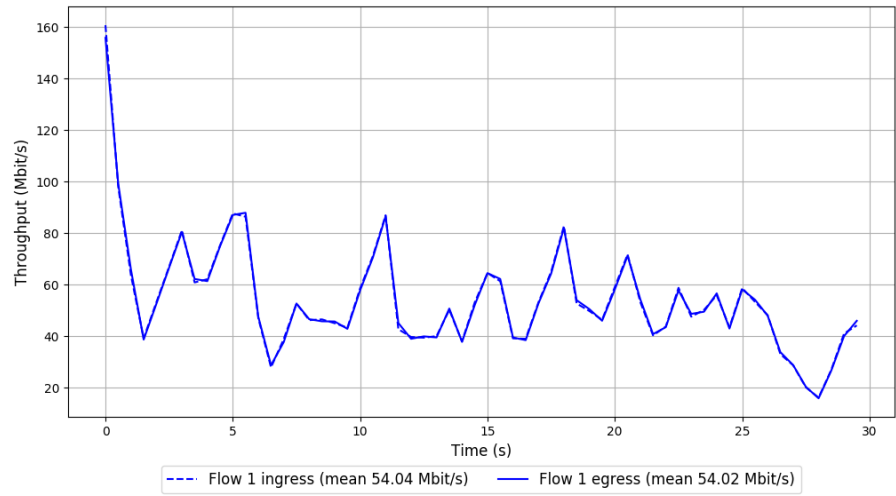```

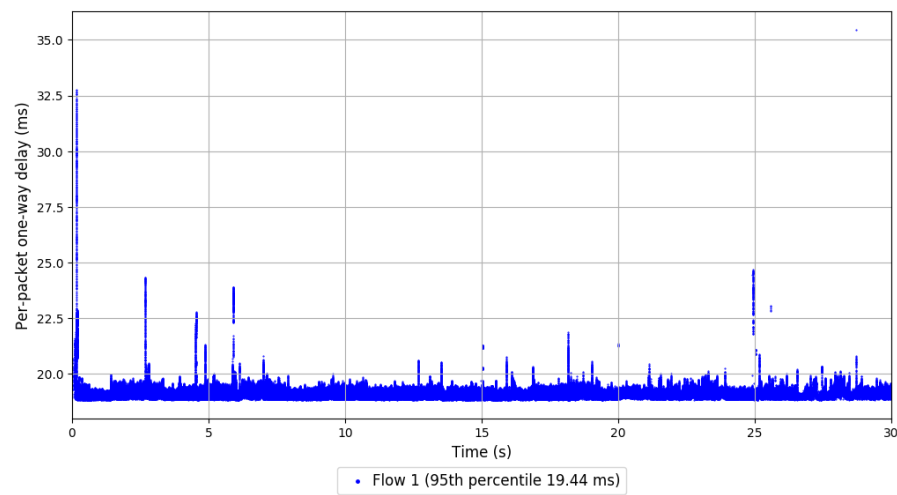Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2017-08-29 22:22:20
End at: 2017-08-29 22:22:50
Local clock offset: 1.337 ms
Remote clock offset: -1.279 ms


# Below is generated by plot.py at 2017-08-30 02:38:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.22 Mbit/s
95th percentile per-packet one-way delay: 20.415 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 268.22 Mbit/s
95th percentile per-packet one-way delay: 20.415 ms
Loss rate: 0.01%
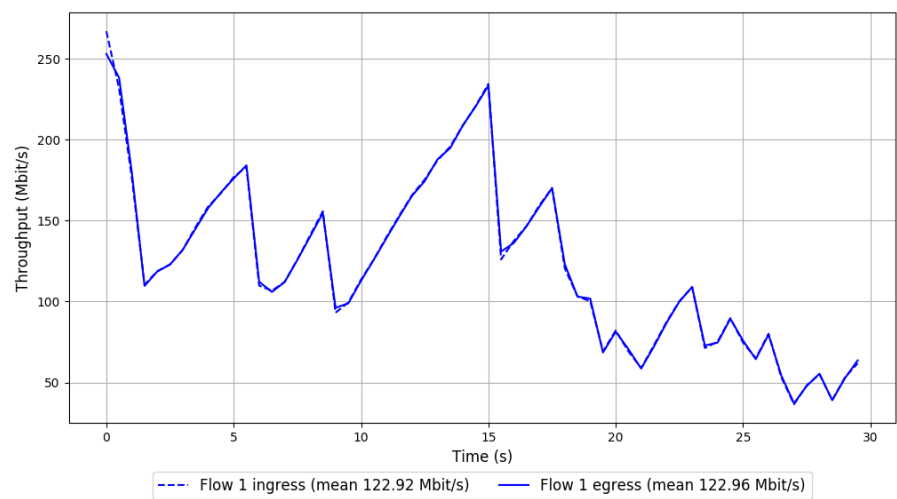```

Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2017-08-29 22:42:10
End at: 2017-08-29 22:42:40
Local clock offset: 1.083 ms
Remote clock offset: -1.341 ms

Below is generated by plot.py at 2017-08-30 02:38:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.02 Mbit/s
95th percentile per-packet one-way delay: 19.568 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 54.02 Mbit/s
95th percentile per-packet one-way delay: 19.568 ms
Loss rate: 0.05%
```
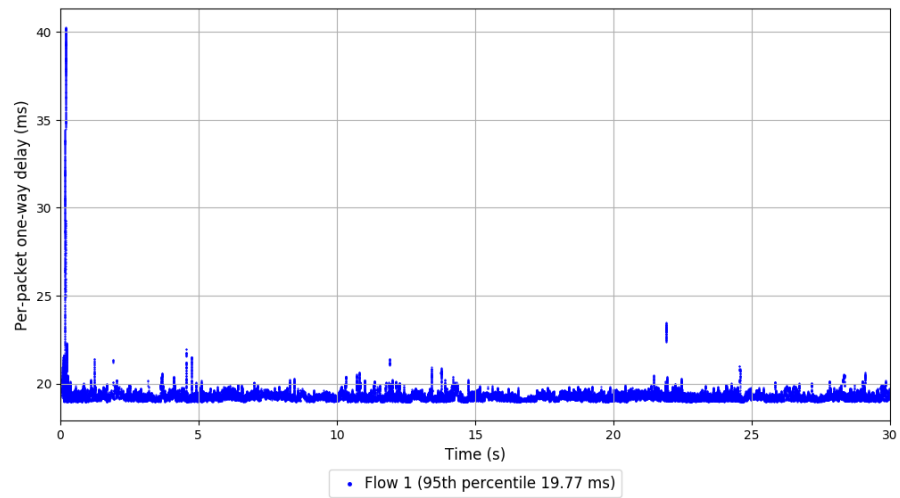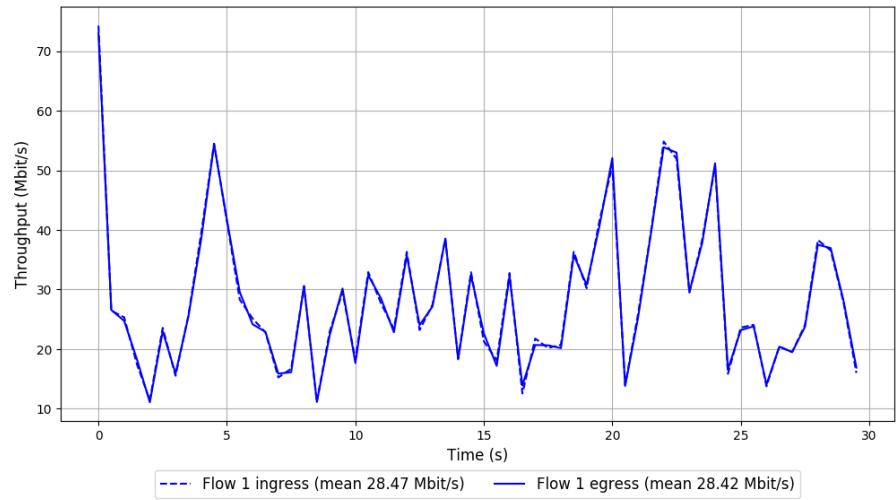
Run 6: Report of TCP Vegas — Data Link

```
Run 7: Statistics of TCP Vegas

Start at: 2017-08-29 23:02:07
End at: 2017-08-29 23:02:37
Local clock offset: 0.741 ms
Remote clock offset: -1.288 ms


# Below is generated by plot.py at 2017-08-30 02:38:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.96 Mbit/s
95th percentile per-packet one-way delay: 19.438 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 122.96 Mbit/s
95th percentile per-packet one-way delay: 19.438 ms
Loss rate: 0.02%
```

Run 7: Report of TCP Vegas — Data Link

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```
Run 8: Statistics of TCP Vegas

Start at: 2017-08-29 23:21:58
End at: 2017-08-29 23:22:28
Local clock offset: 0.758 ms
Remote clock offset: -1.486 ms


# Below is generated by plot.py at 2017-08-30 02:38:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 19.770 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 28.42 Mbit/s
95th percentile per-packet one-way delay: 19.770 ms
Loss rate: 0.17%
```
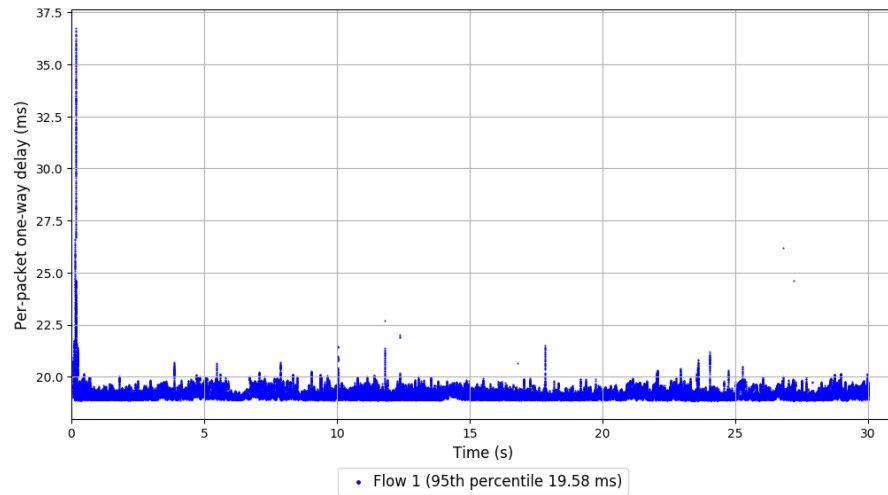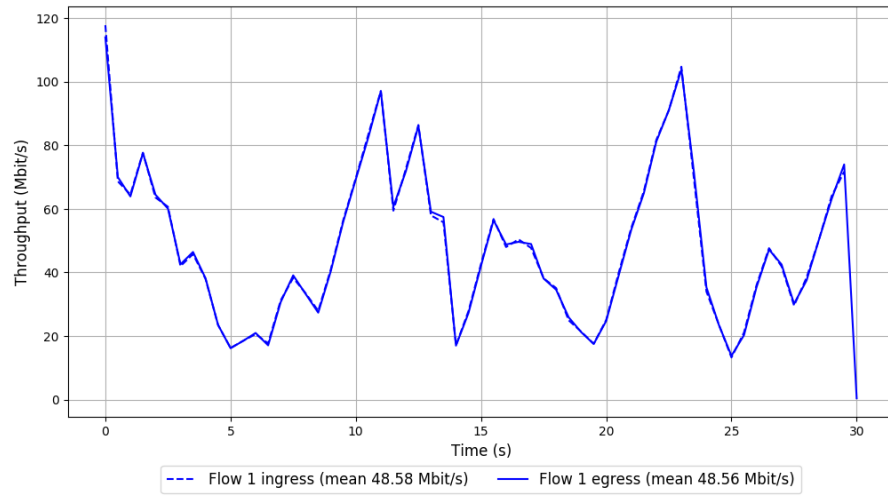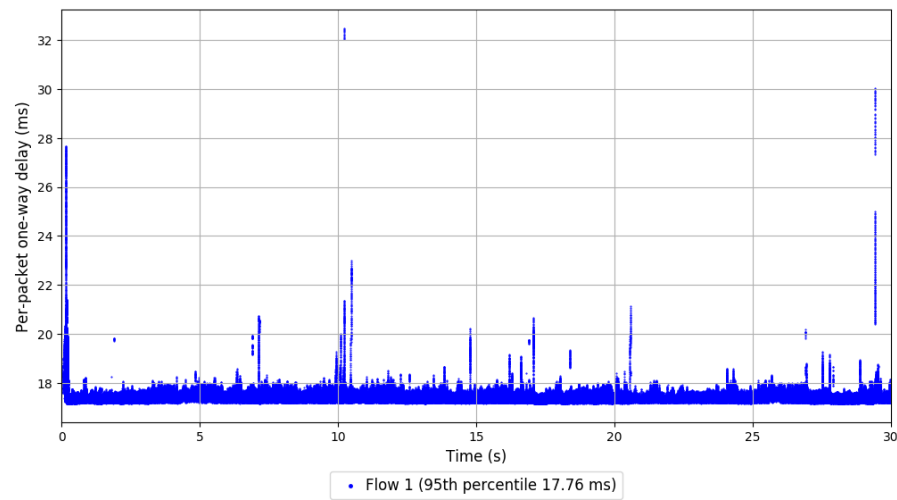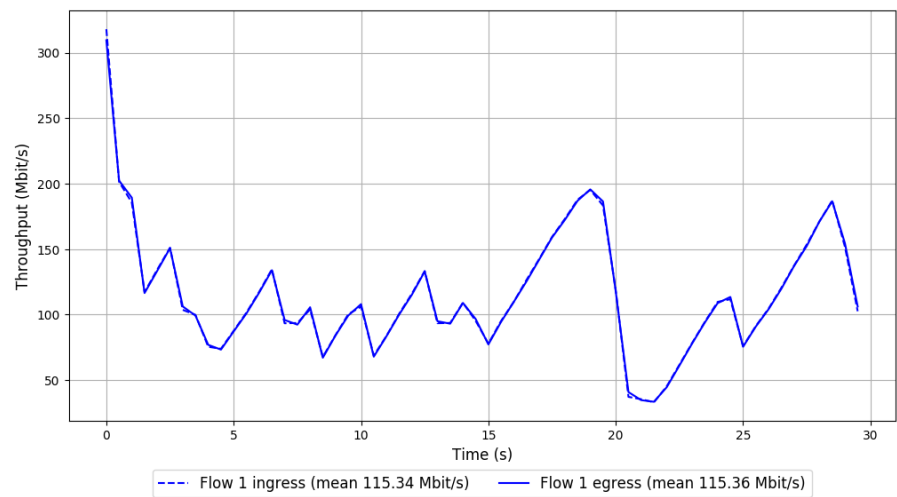
Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2017-08-29 23:41:45
End at: 2017-08-29 23:42:15
Local clock offset: 0.653 ms
Remote clock offset: -1.732 ms


# Below is generated by plot.py at 2017-08-30 02:38:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.56 Mbit/s
95th percentile per-packet one-way delay: 19.580 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 48.56 Mbit/s
95th percentile per-packet one-way delay: 19.580 ms
Loss rate: 0.06%
```
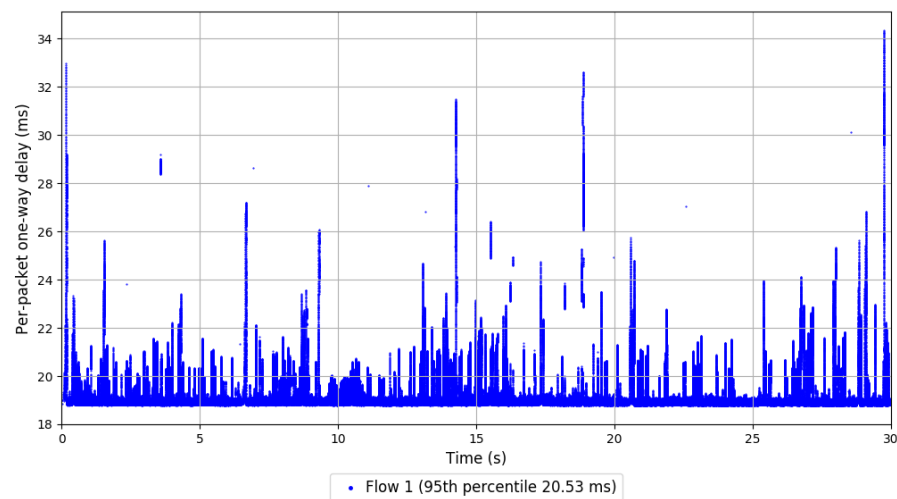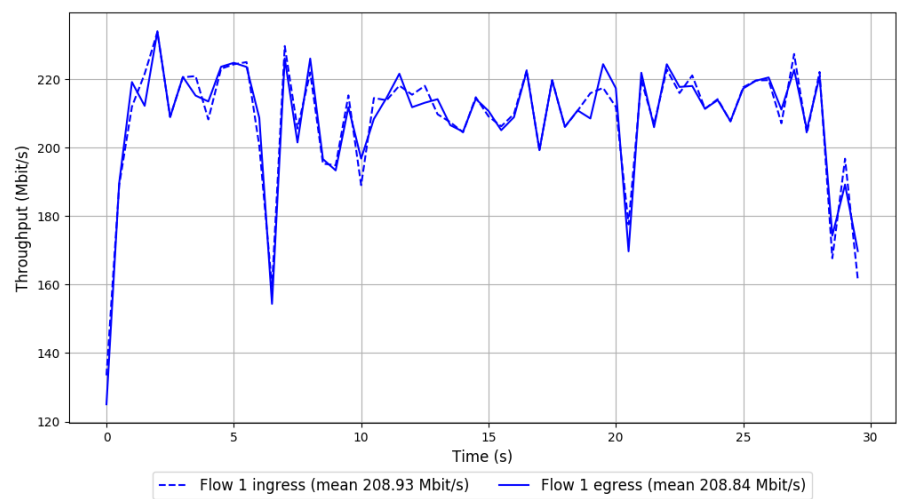
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 48.58 Mbit/s) — — — Flow 1 egress (mean 48.56 Mbit/s)

Flow 1 (95th percentile 19.58 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2017-08-30 00:01:31
End at: 2017-08-30 00:02:01
Local clock offset: 0.476 ms
Remote clock offset: -2.046 ms


# Below is generated by plot.py at 2017-08-30 02:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 115.36 Mbit/s
95th percentile per-packet one-way delay: 17.758 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 115.36 Mbit/s
95th percentile per-packet one-way delay: 17.758 ms
Loss rate: 0.01%
```
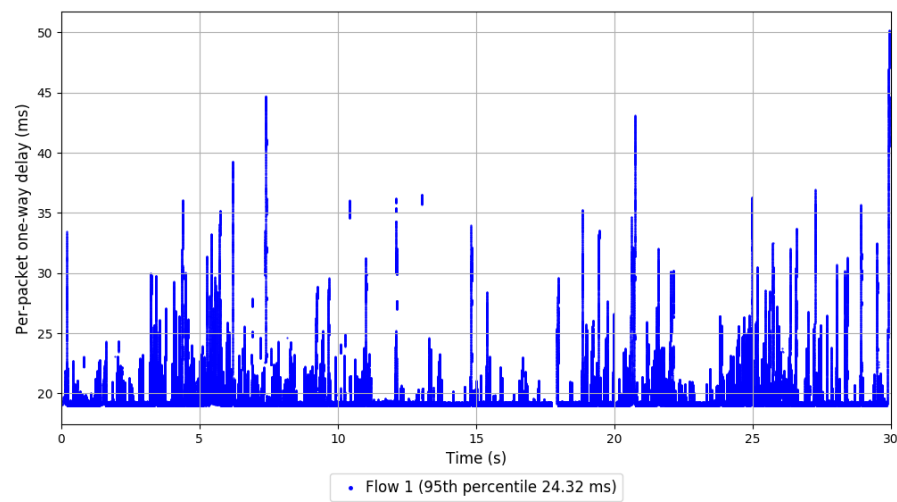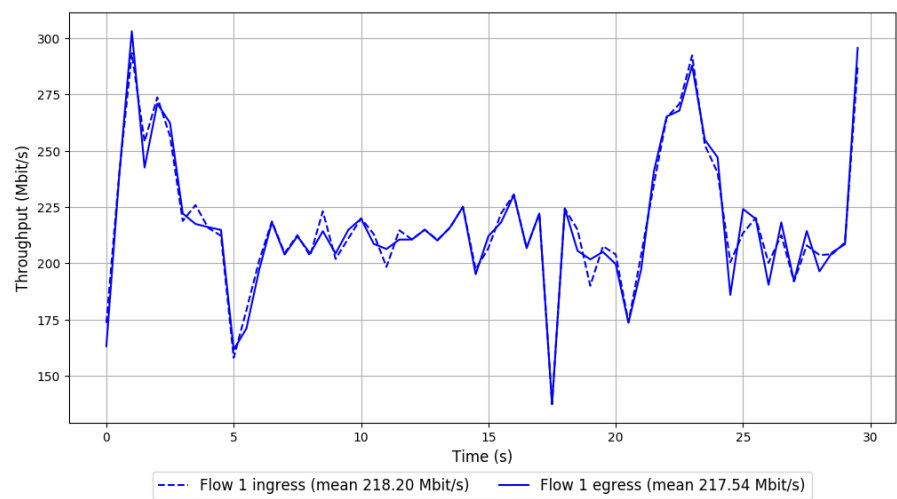
Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2017-08-29 20:50:46
End at: 2017-08-29 20:51:16
Local clock offset: 2.085 ms
Remote clock offset: -1.253 ms


# Below is generated by plot.py at 2017-08-30 02:38:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.84 Mbit/s
95th percentile per-packet one-way delay: 20.529 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 208.84 Mbit/s
95th percentile per-packet one-way delay: 20.529 ms
Loss rate: 0.08%
```

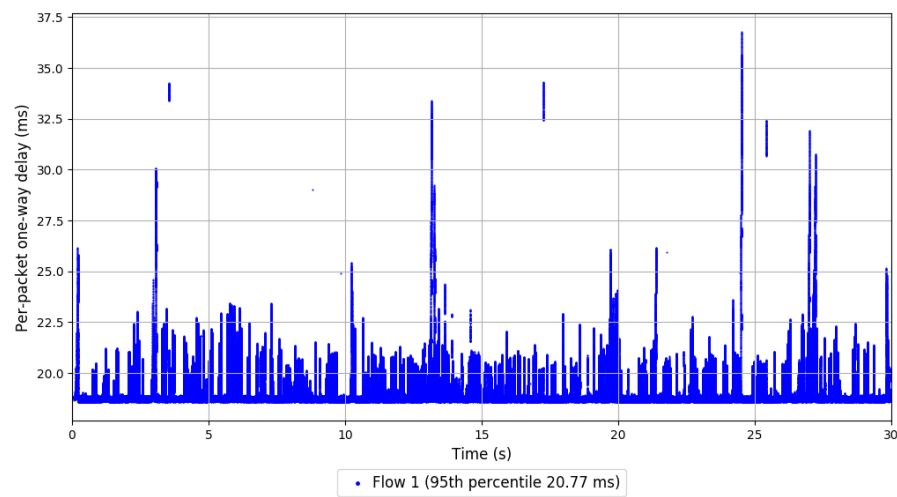Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2017-08-29 21:10:23
End at: 2017-08-29 21:10:53
Local clock offset: 1.731 ms
Remote clock offset: -1.249 ms


# Below is generated by plot.py at 2017-08-30 02:39:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.54 Mbit/s
95th percentile per-packet one-way delay: 24.325 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 217.54 Mbit/s
95th percentile per-packet one-way delay: 24.325 ms
Loss rate: 0.23%
```

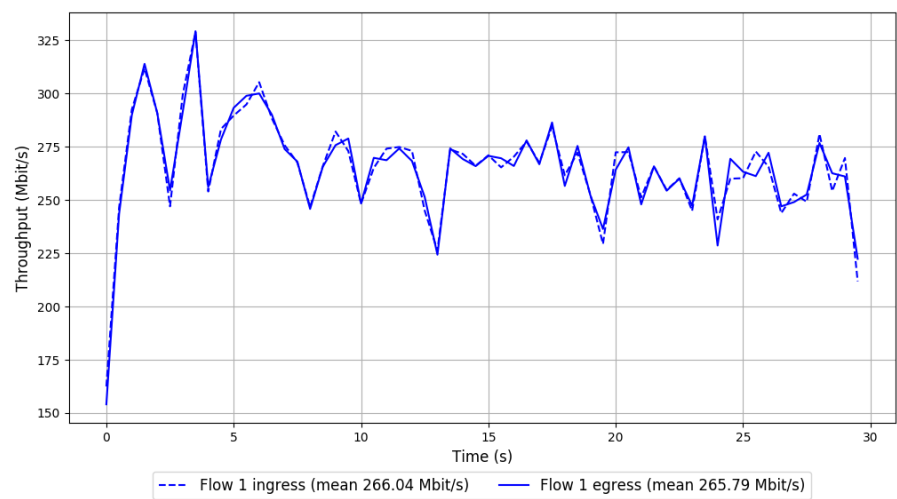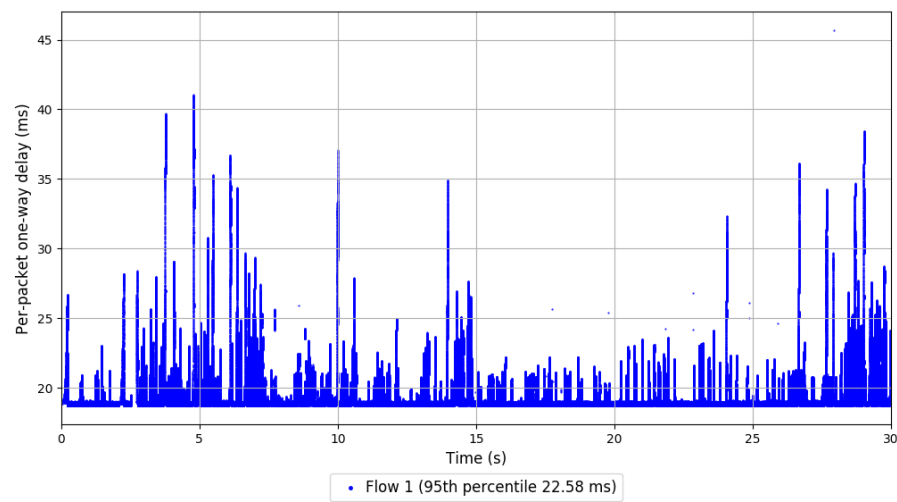Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2017-08-29 21:29:47
End at: 2017-08-29 21:30:17
Local clock offset: 1.565 ms
Remote clock offset: -1.427 ms


# Below is generated by plot.py at 2017-08-30 02:39:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 265.79 Mbit/s
95th percentile per-packet one-way delay: 20.766 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 265.79 Mbit/s
95th percentile per-packet one-way delay: 20.766 ms
Loss rate: 0.09%
```

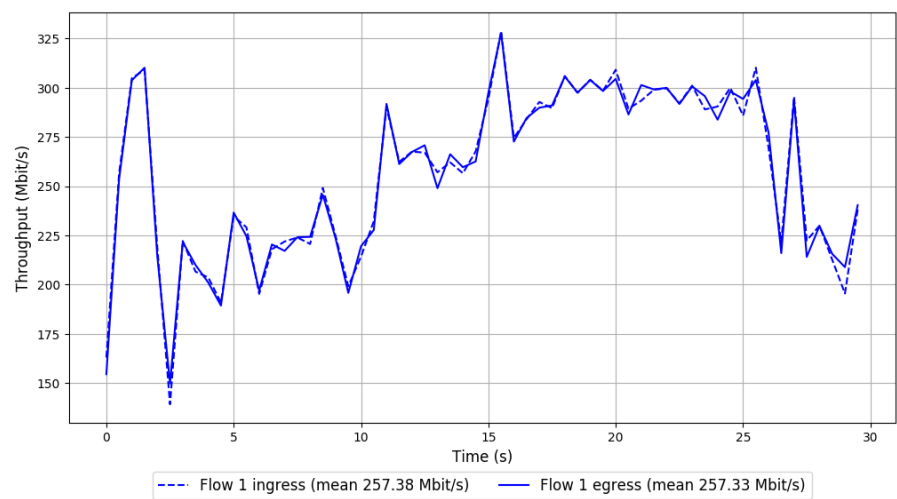Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2017-08-29 21:49:52
End at: 2017-08-29 21:50:22
Local clock offset: 1.278 ms
Remote clock offset: -1.474 ms


# Below is generated by plot.py at 2017-08-30 02:39:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.33 Mbit/s
95th percentile per-packet one-way delay: 22.580 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 257.33 Mbit/s
95th percentile per-packet one-way delay: 22.580 ms
Loss rate: 0.03%
```

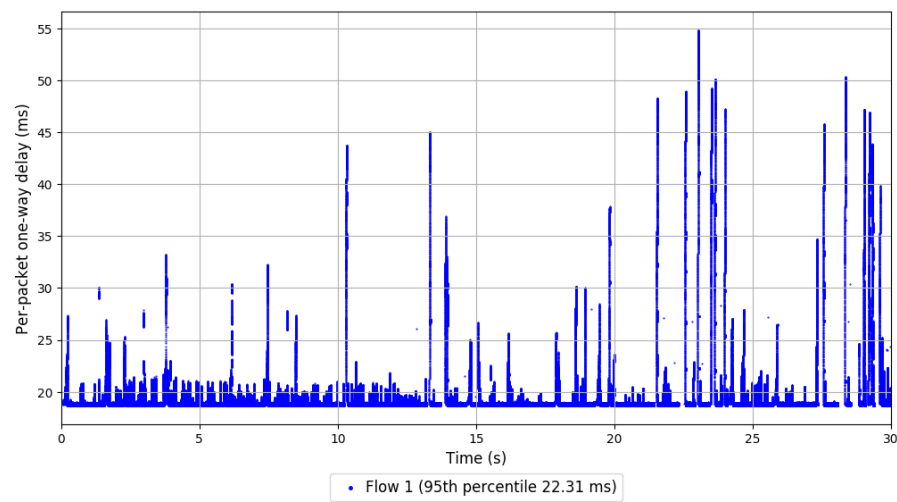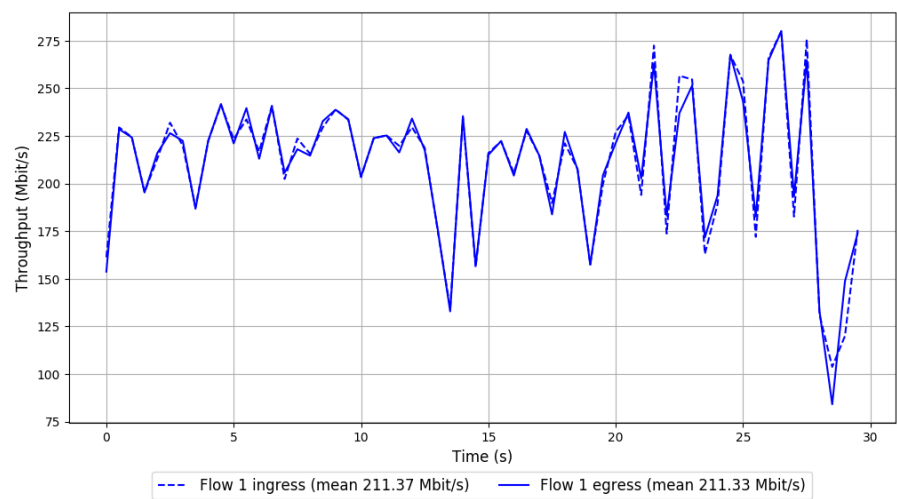Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2017-08-29 22:09:58
End at: 2017-08-29 22:10:28
Local clock offset: 1.261 ms
Remote clock offset: -1.393 ms


# Below is generated by plot.py at 2017-08-30 02:39:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.33 Mbit/s
95th percentile per-packet one-way delay: 22.308 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 211.33 Mbit/s
95th percentile per-packet one-way delay: 22.308 ms
Loss rate: 0.02%
```

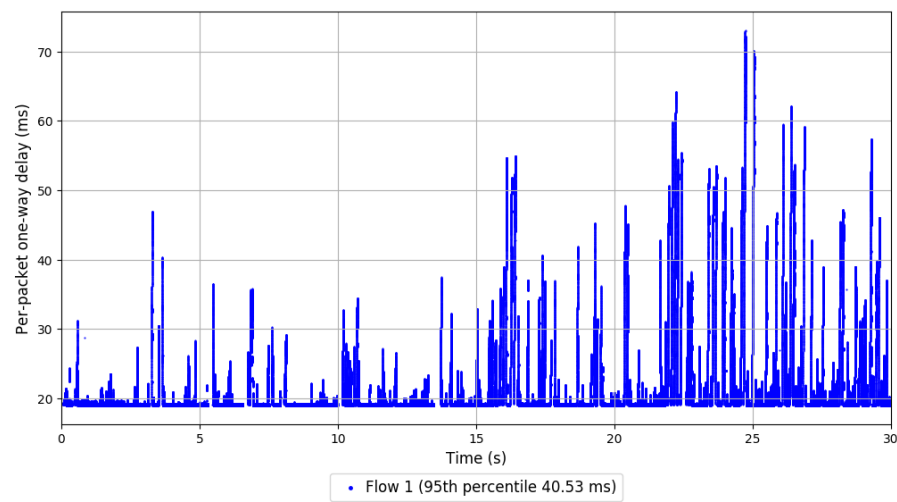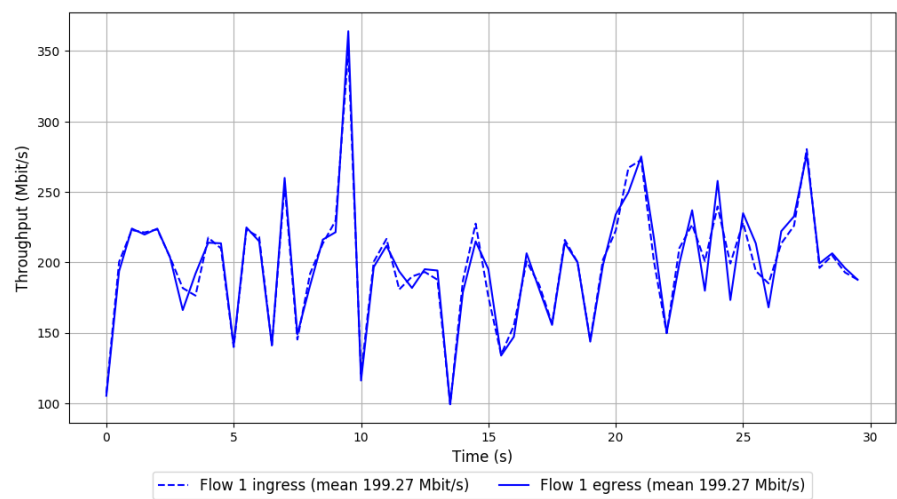Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2017-08-29 22:30:01
End at: 2017-08-29 22:30:31
Local clock offset: 1.256 ms
Remote clock offset: -1.196 ms


# Below is generated by plot.py at 2017-08-30 02:40:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.27 Mbit/s
95th percentile per-packet one-way delay: 40.531 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 199.27 Mbit/s
95th percentile per-packet one-way delay: 40.531 ms
Loss rate: 0.02%
```

Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 199.27 Mbit/s)   Flow 1 egress (mean 199.27 Mbit/s)

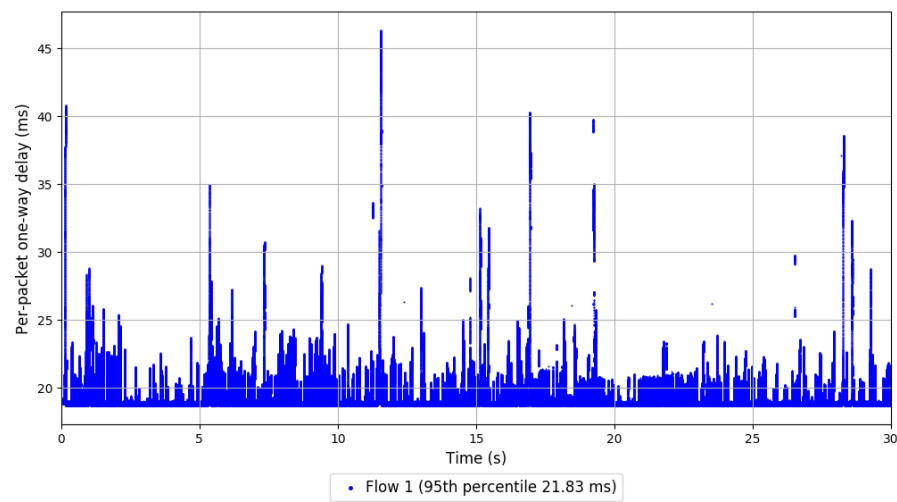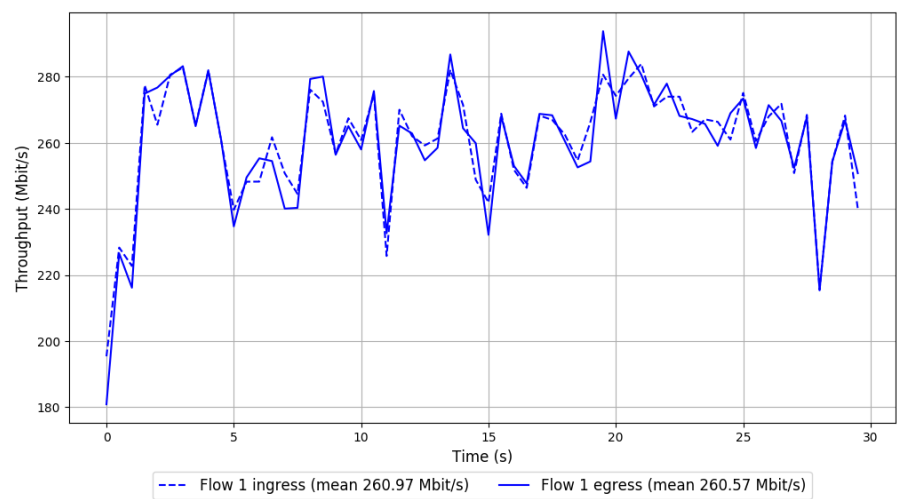Flow 1 (95th percentile 40.53 ms)

```
Run 7: Statistics of Verus

Start at: 2017-08-29 22:49:44
End at: 2017-08-29 22:50:14
Local clock offset: 0.921 ms
Remote clock offset: -1.345 ms


# Below is generated by plot.py at 2017-08-30 02:40:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.57 Mbit/s
95th percentile per-packet one-way delay: 21.827 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 260.57 Mbit/s
95th percentile per-packet one-way delay: 21.827 ms
Loss rate: 0.17%
```

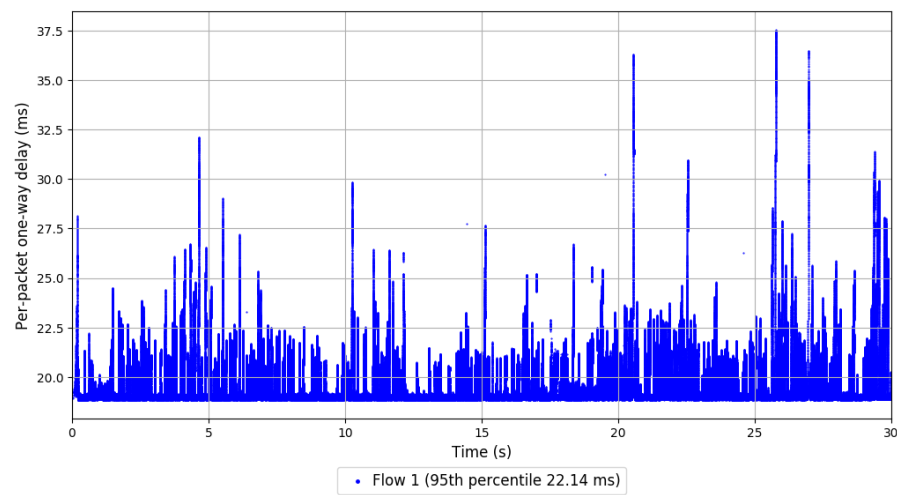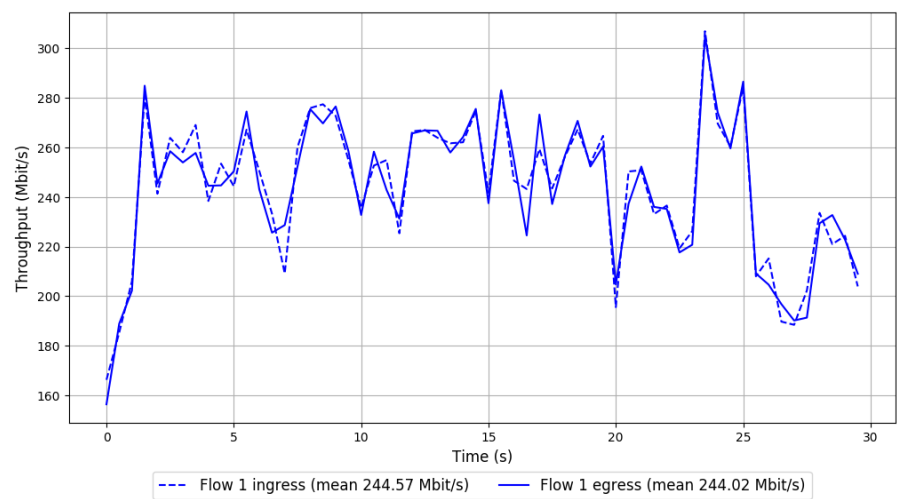Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: 2017-08-29 23:09:43
End at: 2017-08-29 23:10:13
Local clock offset: 0.813 ms
Remote clock offset: -1.434 ms


# Below is generated by plot.py at 2017-08-30 02:40:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.02 Mbit/s
95th percentile per-packet one-way delay: 22.141 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 244.02 Mbit/s
95th percentile per-packet one-way delay: 22.141 ms
Loss rate: 0.22%
```

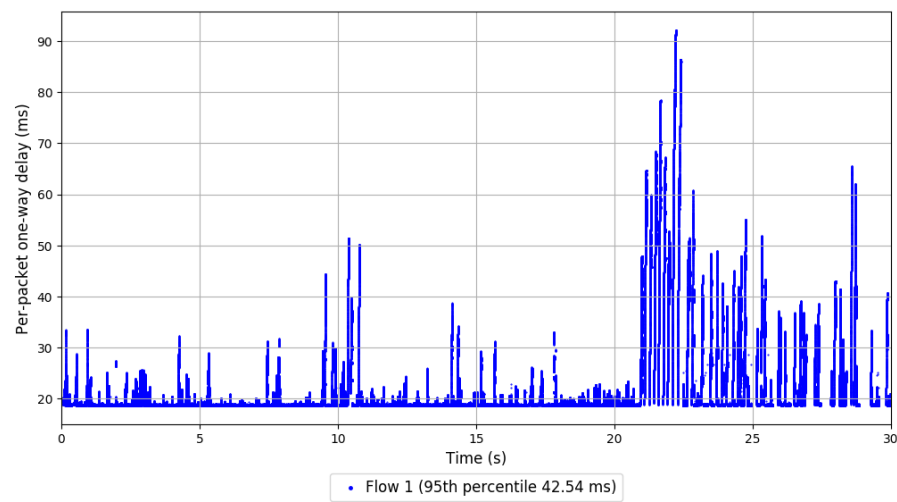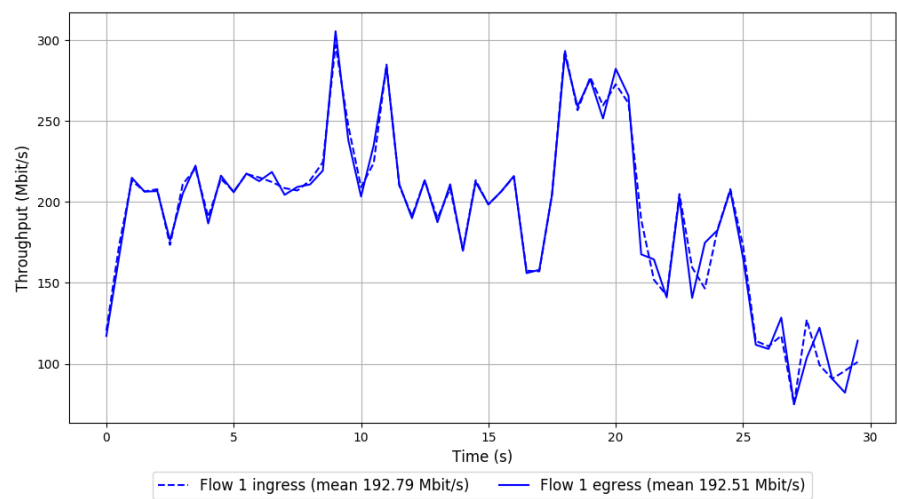Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2017-08-29 23:29:30
End at: 2017-08-29 23:30:00
Local clock offset: 0.691 ms
Remote clock offset: -1.734 ms


# Below is generated by plot.py at 2017-08-30 02:40:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.51 Mbit/s
95th percentile per-packet one-way delay: 42.537 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 192.51 Mbit/s
95th percentile per-packet one-way delay: 42.537 ms
Loss rate: 0.15%
```

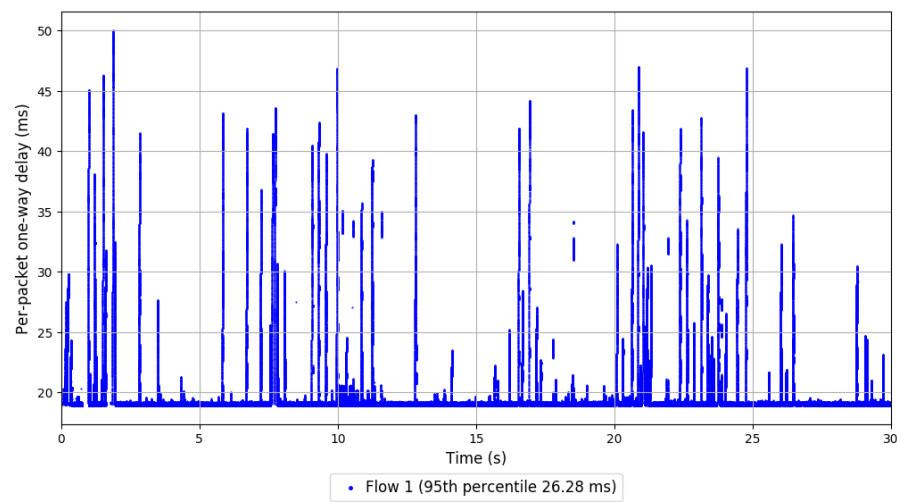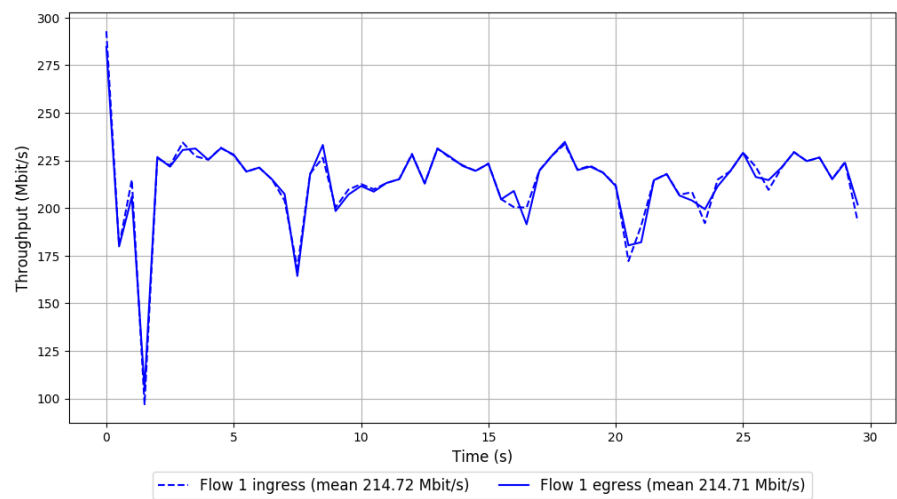Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2017-08-29 23:49:17
End at: 2017-08-29 23:49:47
Local clock offset: 0.455 ms
Remote clock offset: -1.854 ms


# Below is generated by plot.py at 2017-08-30 02:41:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.71 Mbit/s
95th percentile per-packet one-way delay: 26.280 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 214.71 Mbit/s
95th percentile per-packet one-way delay: 26.280 ms
Loss rate: 0.03%
```
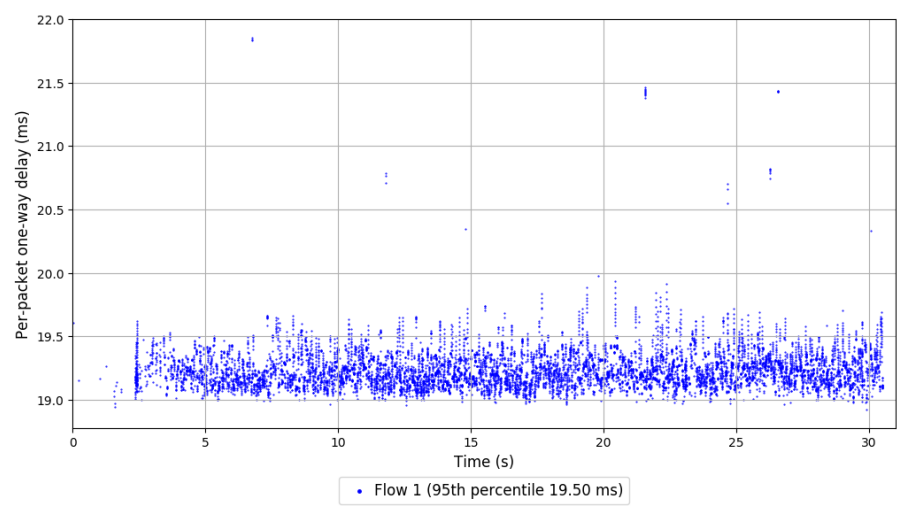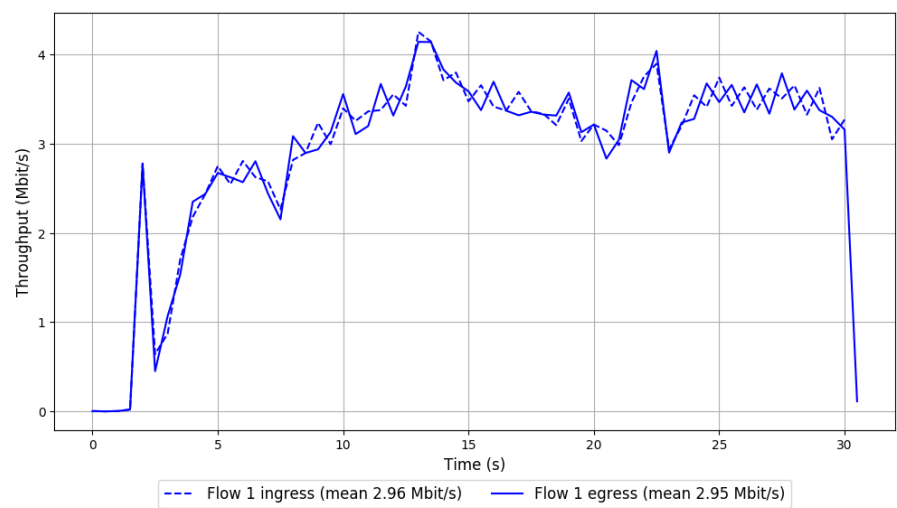
Run 10: Report of Verus — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2017-08-29 20:53:23
End at: 2017-08-29 20:53:53
Local clock offset: 1.943 ms
Remote clock offset: -1.132 ms


# Below is generated by plot.py at 2017-08-30 02:41:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 19.495 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 19.495 ms
Loss rate: 0.06%
```
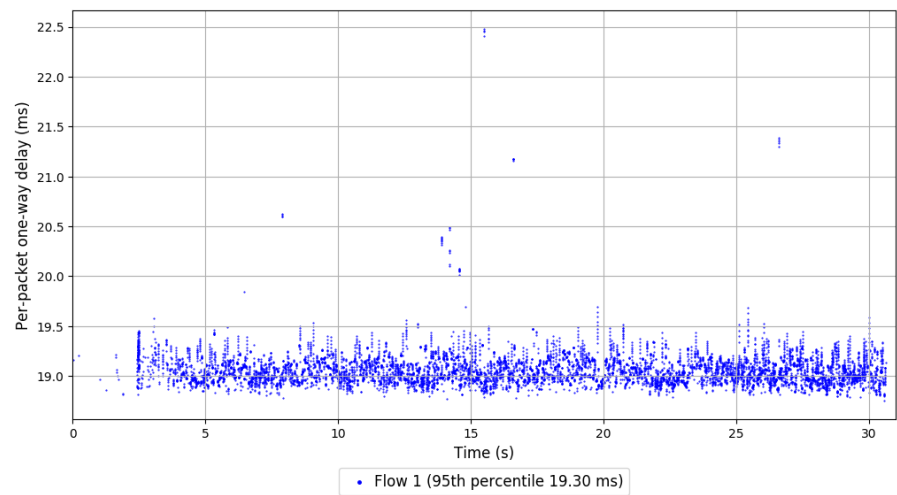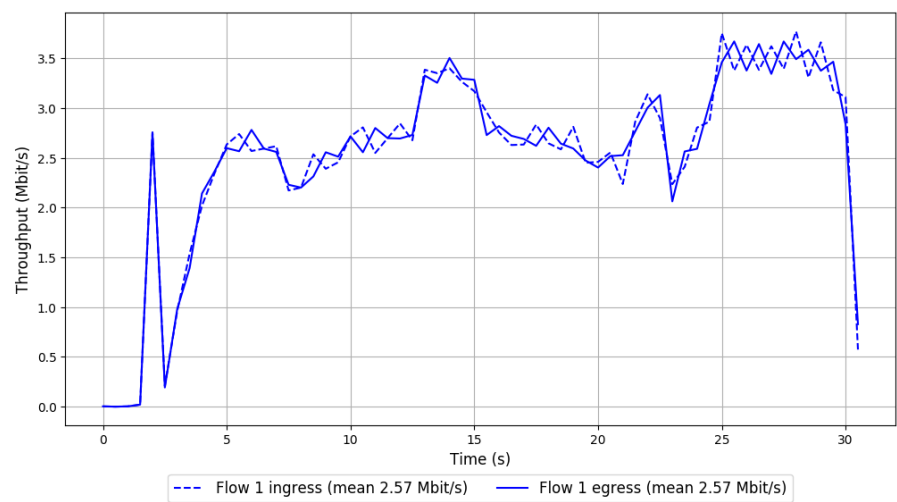
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2017-08-29 21:13:00
End at: 2017-08-29 21:13:30
Local clock offset: 1.797 ms
Remote clock offset: -1.338 ms


# Below is generated by plot.py at 2017-08-30 02:41:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 19.300 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 19.300 ms
Loss rate: 0.06%
```
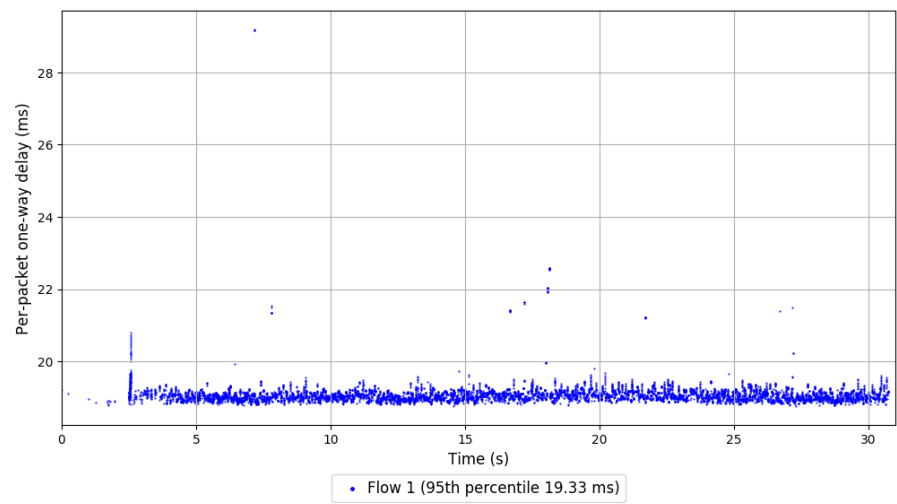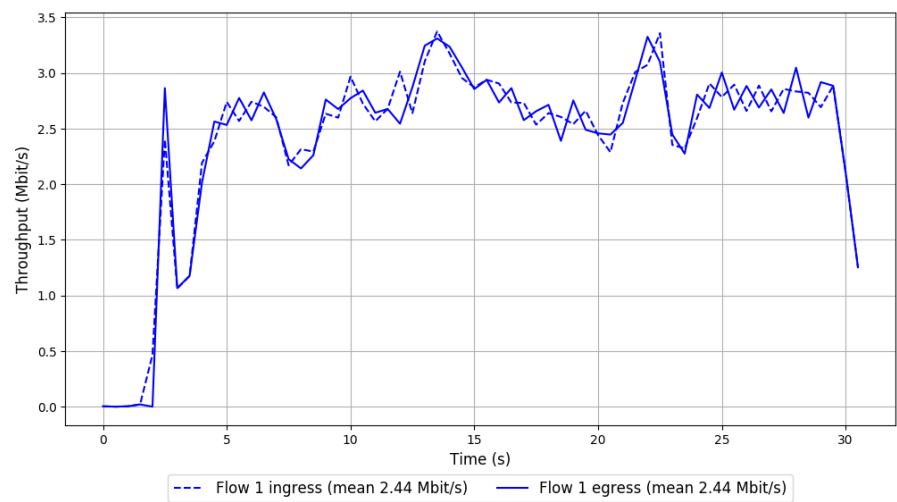
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2017-08-29 21:32:28
End at: 2017-08-29 21:32:58
Local clock offset: 1.523 ms
Remote clock offset: -1.433 ms


# Below is generated by plot.py at 2017-08-30 02:41:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 19.326 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.44 Mbit/s
95th percentile per-packet one-way delay: 19.326 ms
Loss rate: 0.01%
```
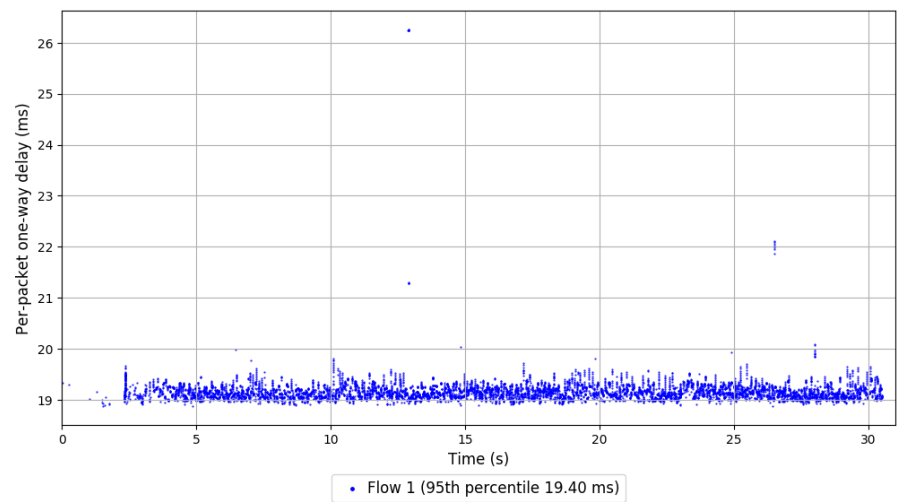
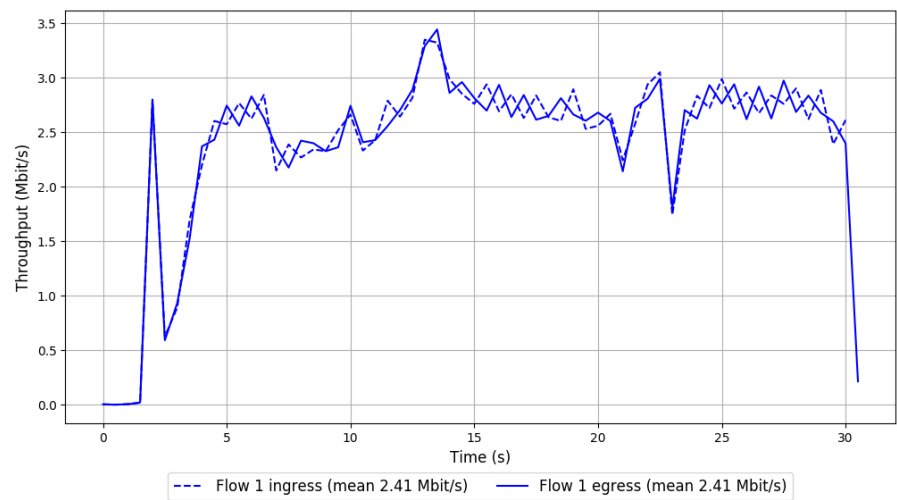Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2017-08-29 21:52:33
End at: 2017-08-29 21:53:03
Local clock offset: 1.31 ms
Remote clock offset: -1.456 ms


# Below is generated by plot.py at 2017-08-30 02:41:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 19.396 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.41 Mbit/s
95th percentile per-packet one-way delay: 19.396 ms
Loss rate: 0.00%
```
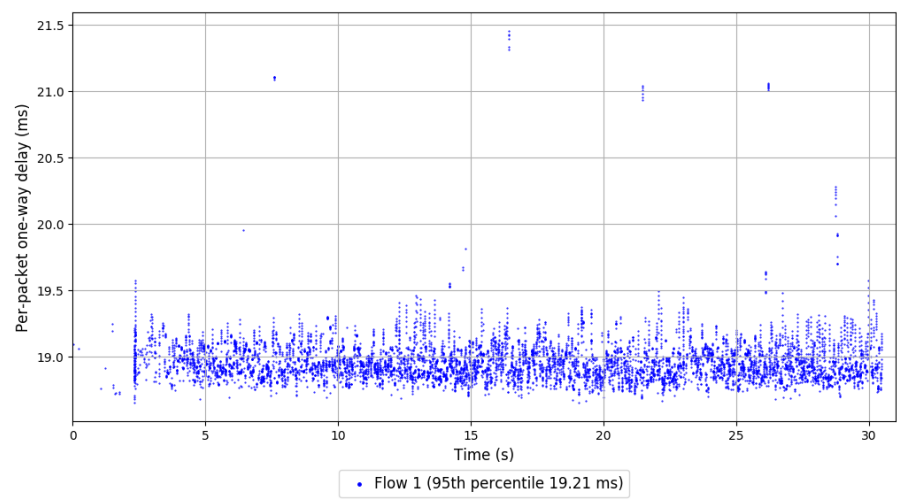
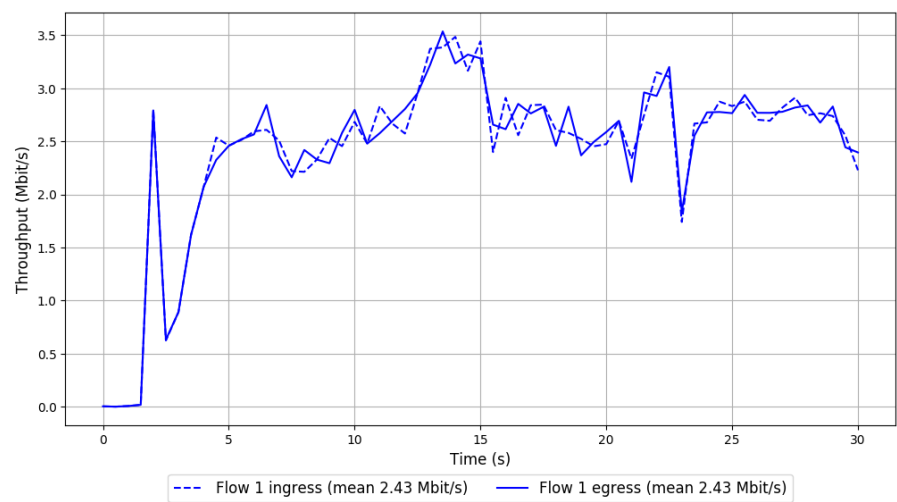Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2017-08-29 22:12:36
End at: 2017-08-29 22:13:06
Local clock offset: 1.259 ms
Remote clock offset: -1.355 ms


# Below is generated by plot.py at 2017-08-30 02:41:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 19.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 19.214 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 2.43 Mbit/s) ---- Flow 1 egress (mean 2.43 Mbit/s)
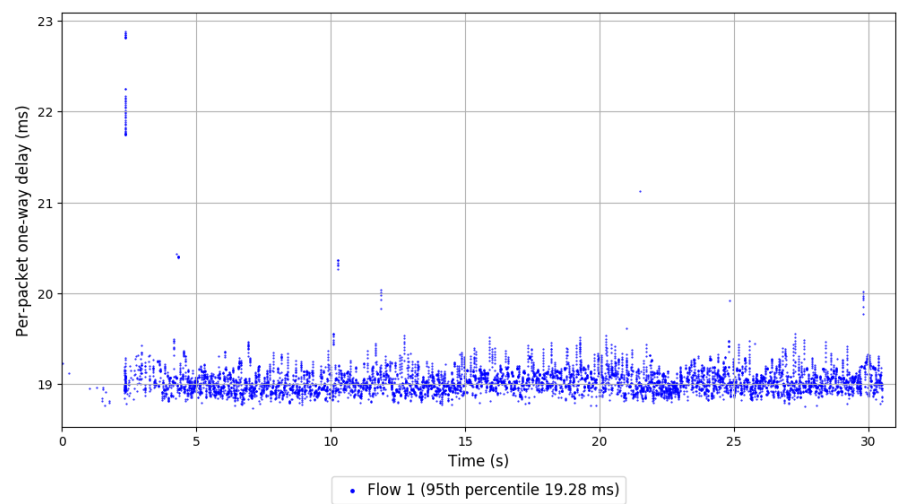
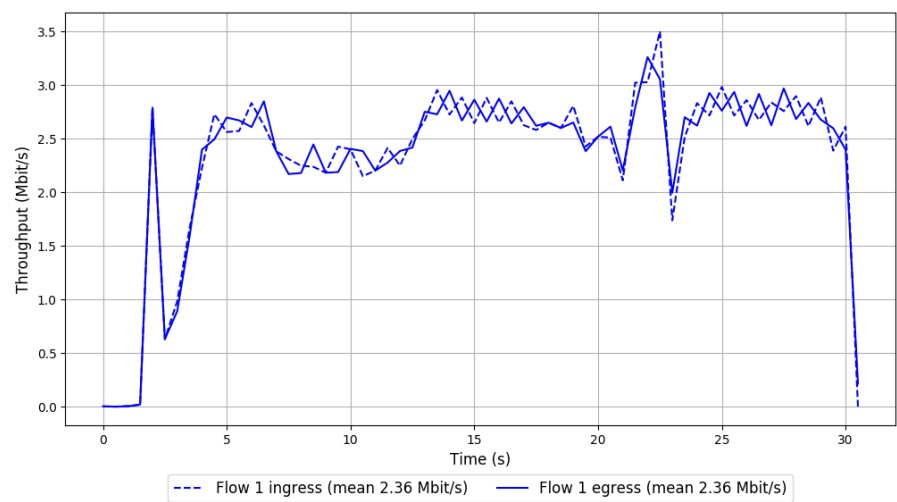

• Flow 1 (95th percentile 19.21 ms)

```
Run 6: Statistics of WebRTC media

Start at: 2017-08-29 22:32:38
End at: 2017-08-29 22:33:08
Local clock offset: 1.131 ms
Remote clock offset: -1.244 ms


# Below is generated by plot.py at 2017-08-30 02:41:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 19.283 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 19.283 ms
Loss rate: 0.00%
```
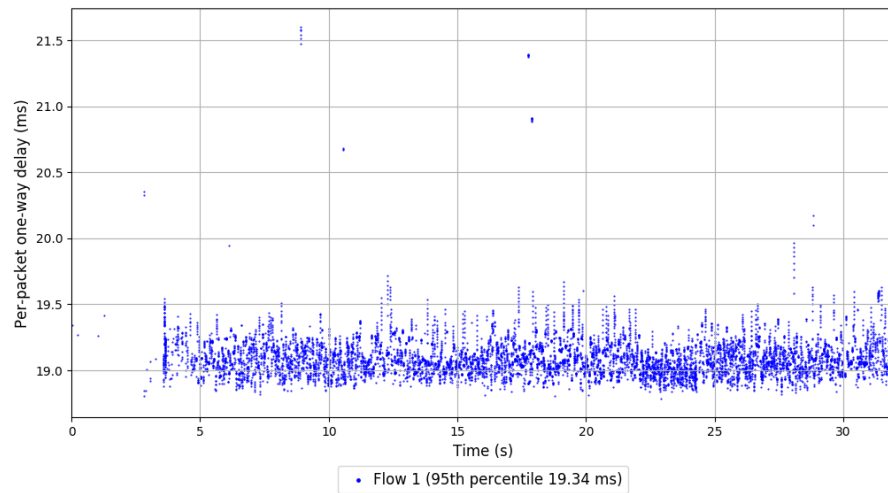
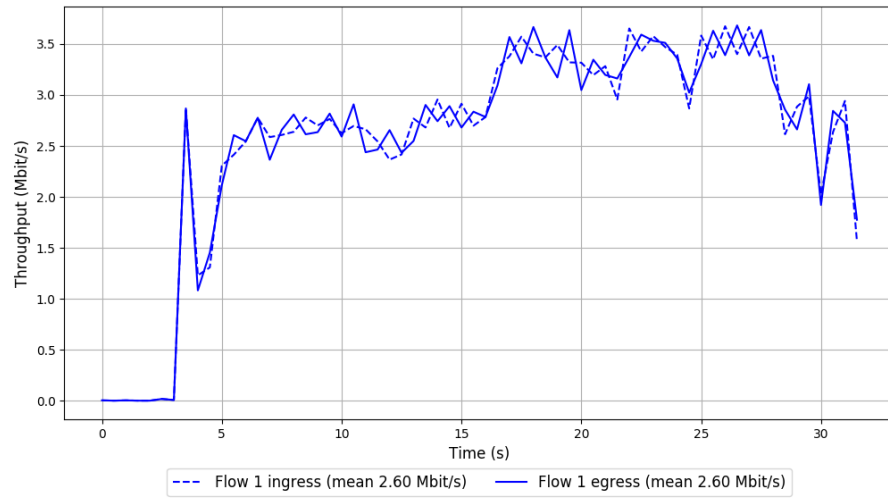Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2017-08-29 22:52:24
End at: 2017-08-29 22:52:54
Local clock offset: 0.97 ms
Remote clock offset: -1.348 ms


# Below is generated by plot.py at 2017-08-30 02:41:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 19.338 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 19.338 ms
Loss rate: 0.05%
```

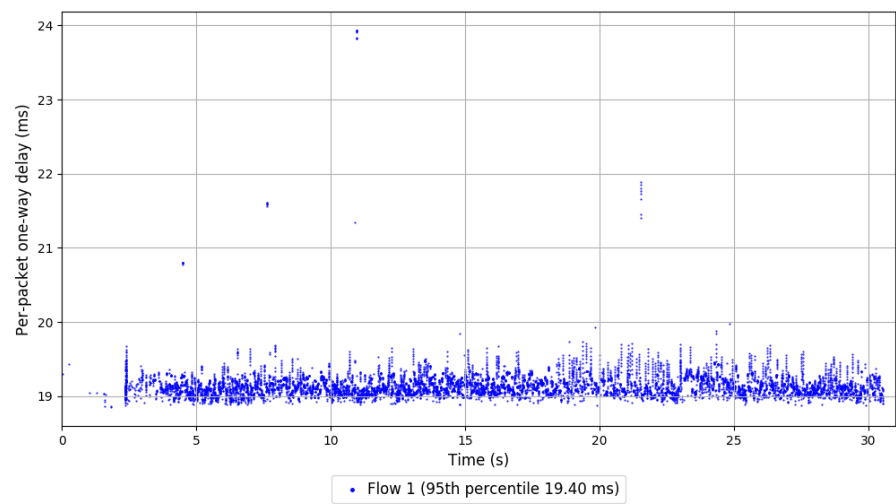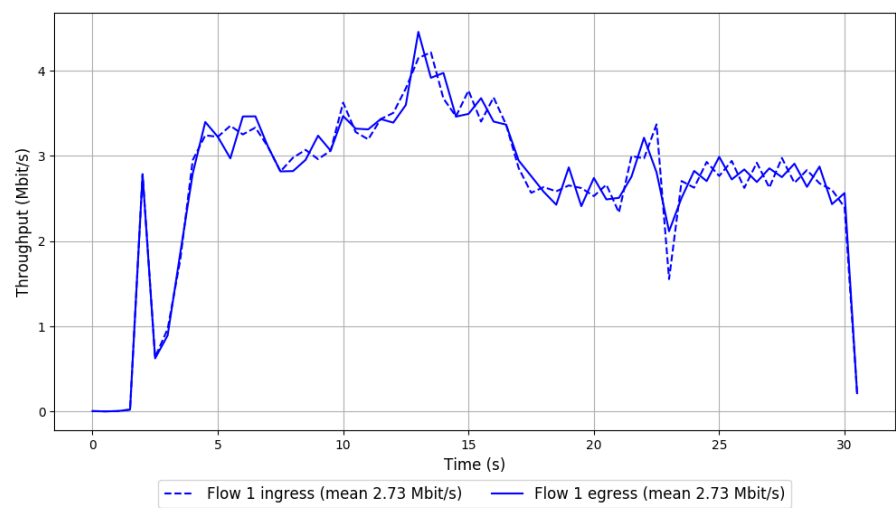Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2017-08-29 23:12:22
End at: 2017-08-29 23:12:52
Local clock offset: 0.763 ms
Remote clock offset: -1.444 ms


# Below is generated by plot.py at 2017-08-30 02:41:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.73 Mbit/s
95th percentile per-packet one-way delay: 19.403 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.73 Mbit/s
95th percentile per-packet one-way delay: 19.403 ms
Loss rate: 0.03%
```

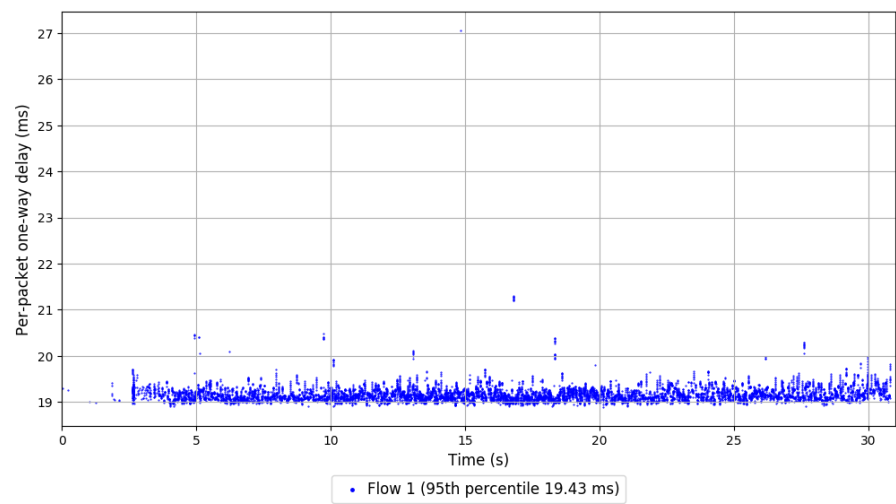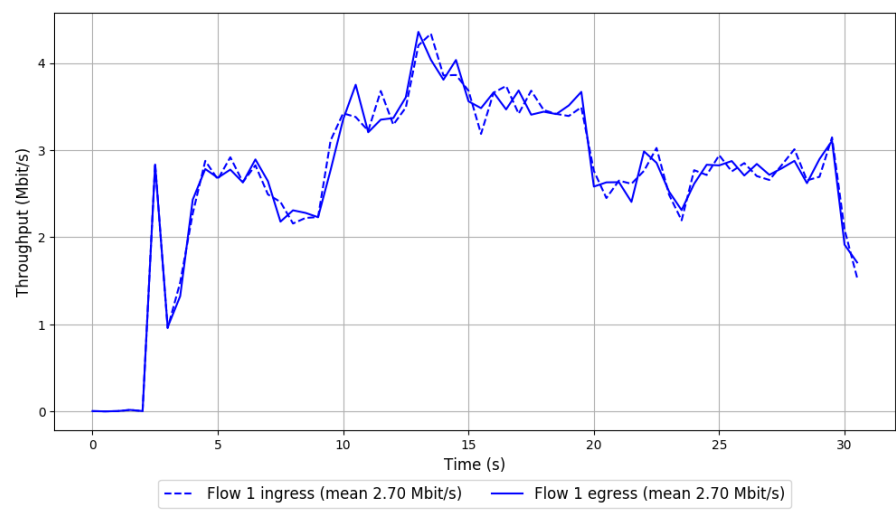Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2017-08-29 23:32:05
End at: 2017-08-29 23:32:35
Local clock offset: 0.67 ms
Remote clock offset: -1.795 ms


# Below is generated by plot.py at 2017-08-30 02:41:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 19.425 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 2.70 Mbit/s
95th percentile per-packet one-way delay: 19.425 ms
Loss rate: 0.06%
```

Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2017-08-29 23:51:55
End at: 2017-08-29 23:52:25
Local clock offset: 0.501 ms
Remote clock offset: -1.859 ms


# Below is generated by plot.py at 2017-08-30 02:41:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 19.398 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 19.398 ms
Loss rate: 0.10%
```

Run 10: Report of WebRTC media — Data Link