Pantheon Report

Generated at 2018-04-24 13:12:28 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

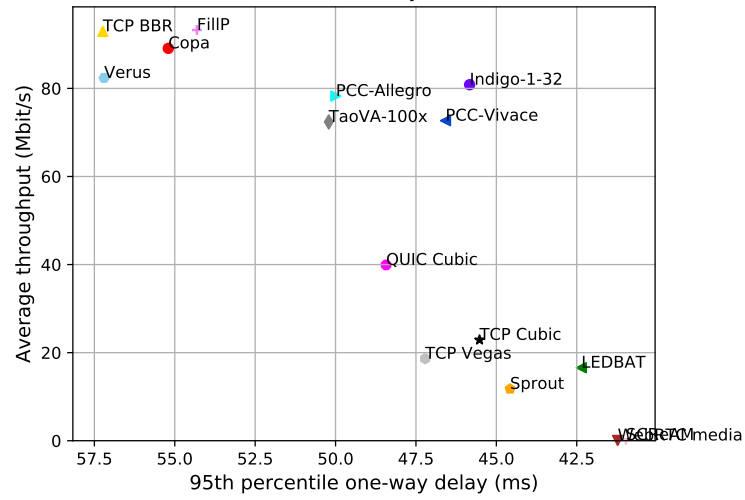Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

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

```
Git summary:
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```
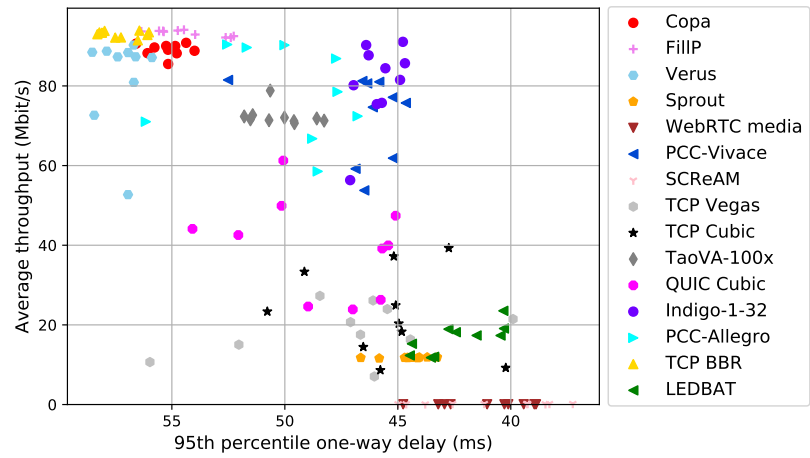
test from Mexico Ethernet to AWS California 2 Ethernet, 10 runs of 30s each per scheme (mean of all runs by scheme)

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

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	92.95	57.24	0.76
TCP Cubic	10	22.90	45.52	0.52
LEDBAT	10	16.58	42.36	0.62
PCC-Allegro	9	78.26	49.99	0.87
QUIC Cubic	10	39.92	48.43	0.69
SCReAM	10	0.18	40.97	0.33
WebRTC media	10	0.06	41.23	0.13
Sprout	10	11.77	44.57	0.42
TaoVA-100x	10	72.38	50.21	0.73
TCP Vegas	10	18.62	47.21	0.59
Verus	10	82.38	57.20	0.90
Copa	10	89.10	55.20	0.84
FillP	10	93.26	54.31	0.81
Indigo-1-32	10	80.83	45.83	0.66
PCC-Vivace	10	72.67	46.58	0.76
PCC-Expr	0	N/A	N/A	N/A

```
Run 1: Statistics of TCP BBR

Start at: 2018-04-24 05:21:14
End at: 2018-04-24 05:21:44
Local clock offset: -6.714 ms
Remote clock offset: -0.631 ms


# Below is generated by plot.py at 2018-04-24 12:55:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 56.507 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 56.507 ms
Loss rate: 0.98%
```
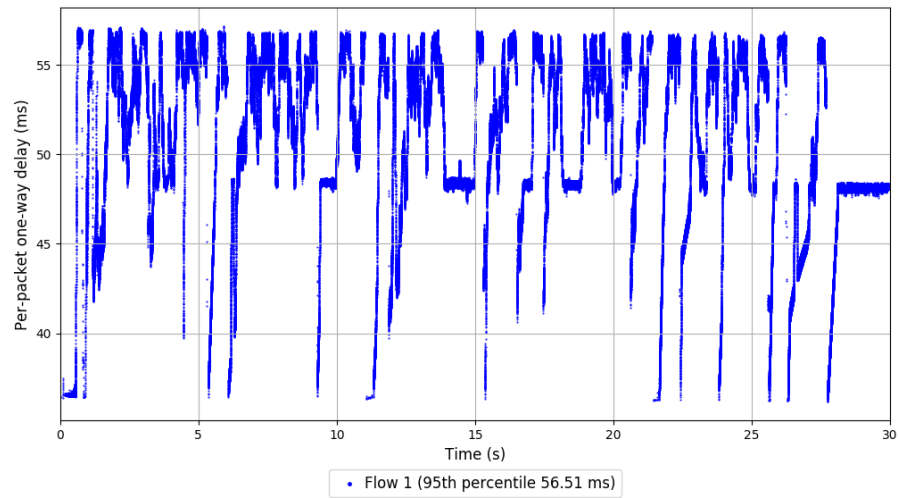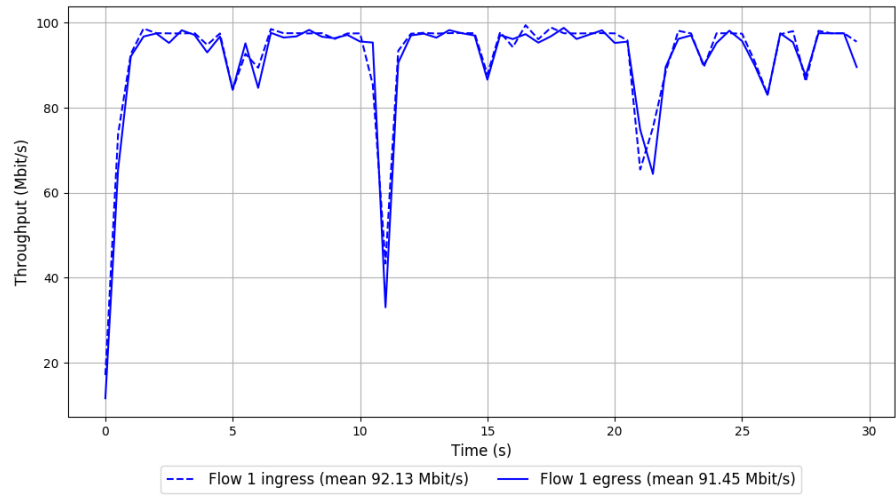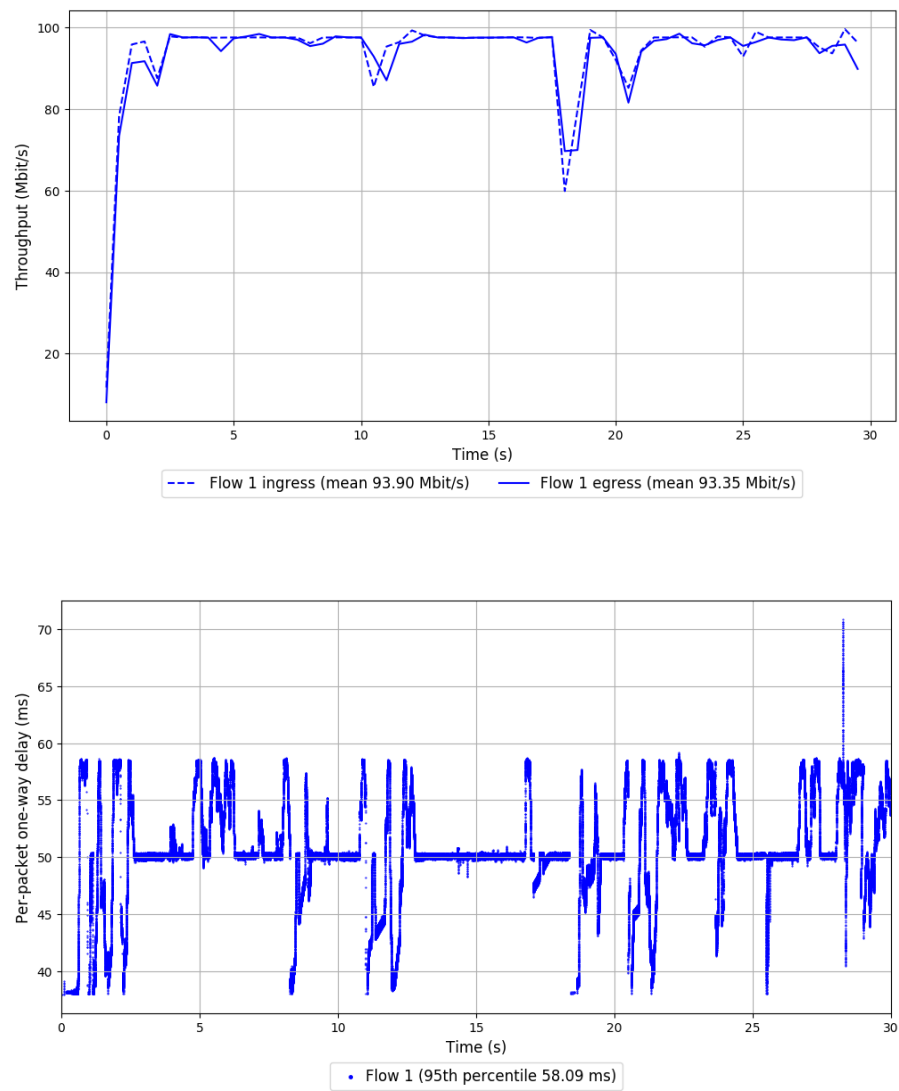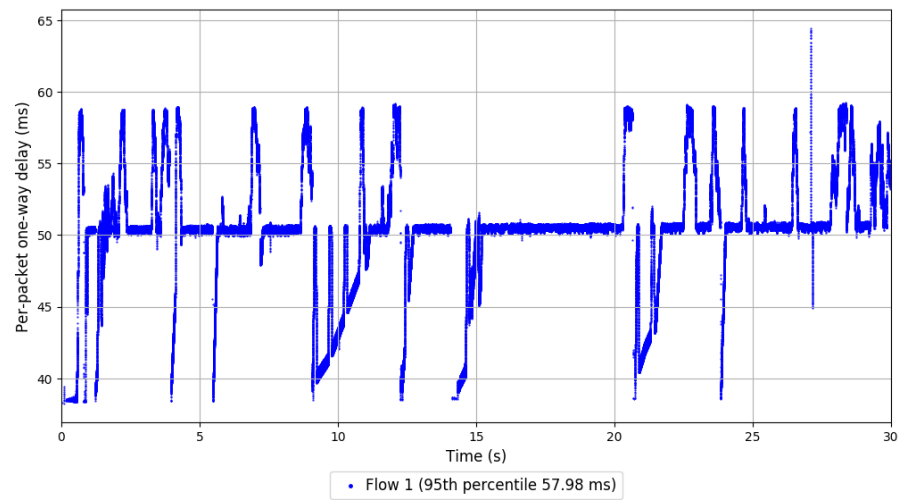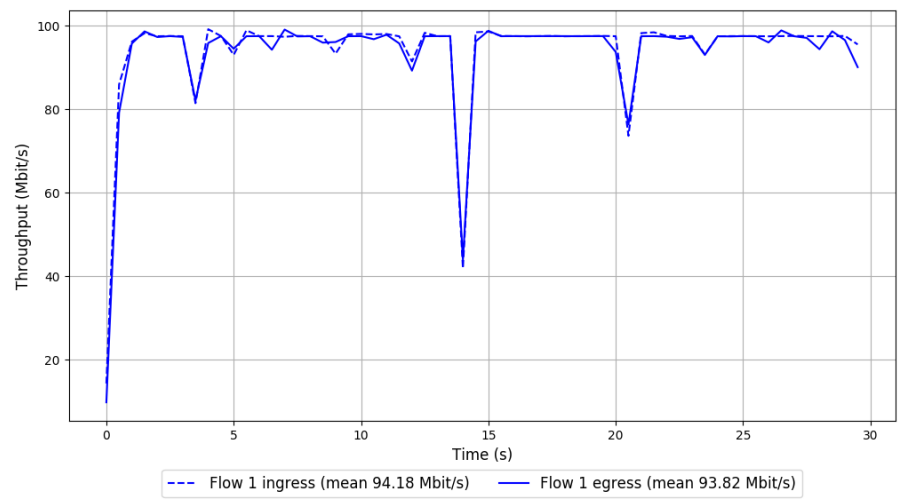
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 92.13 Mbit/s) --- Flow 1 egress (mean 91.45 Mbit/s)

· Flow 1 (95th percentile 56.51 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2018-04-24 05:45:04
End at: 2018-04-24 05:45:34
Local clock offset: -6.96 ms
Remote clock offset: -3.455 ms


# Below is generated by plot.py at 2018-04-24 12:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 58.094 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 93.35 Mbit/s
95th percentile per-packet one-way delay: 58.094 ms
Loss rate: 0.83%
```
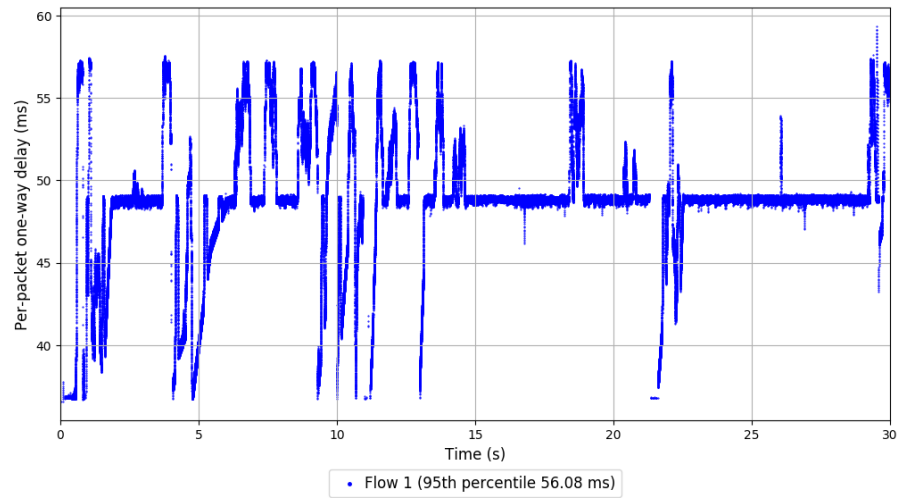
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.90 Mbit/s)   ——— Flow 1 egress (mean 93.35 Mbit/s)

• Flow 1 (95th percentile 58.09 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2018-04-24 06:08:22
End at: 2018-04-24 06:08:52
Local clock offset: -12.244 ms
Remote clock offset: 1.09 ms


# Below is generated by plot.py at 2018-04-24 12:55:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 57.978 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 57.978 ms
Loss rate: 0.62%
```
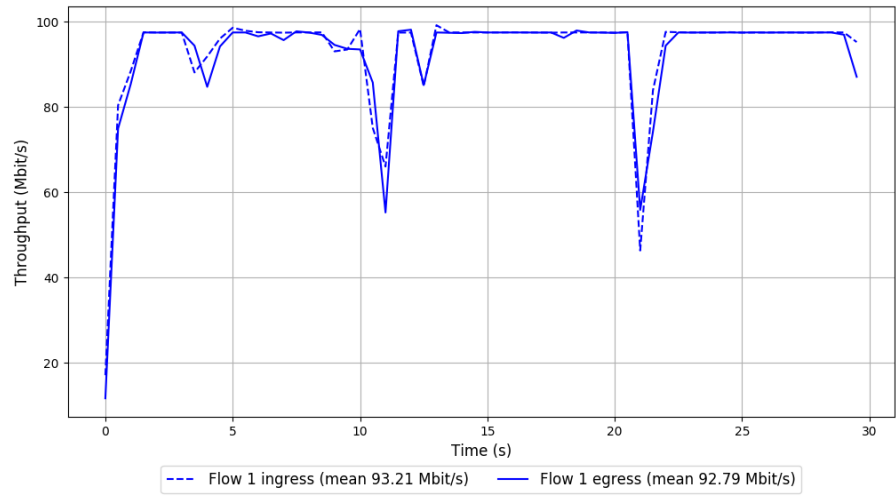
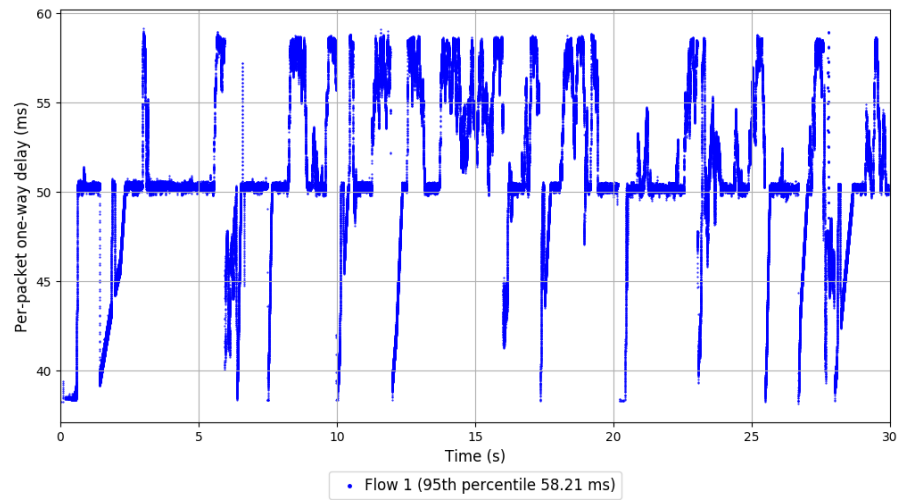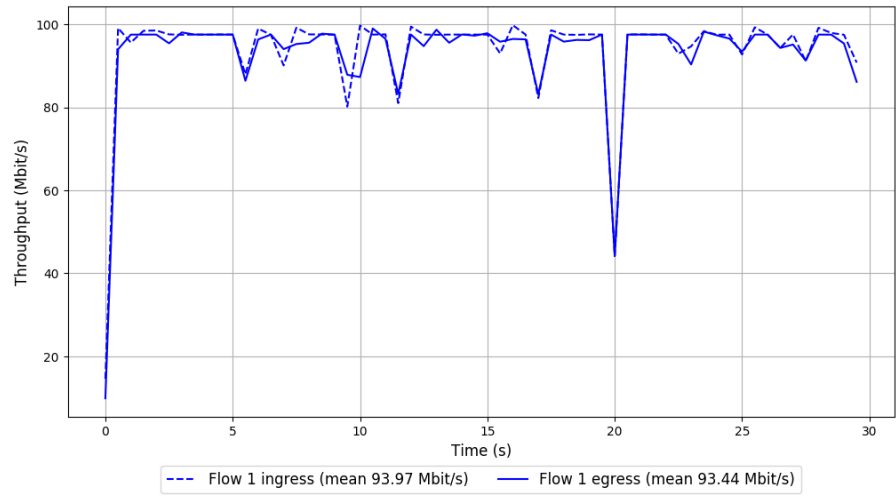Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 94.18 Mbit/s)   Flow 1 egress (mean 93.82 Mbit/s)

Flow 1 (95th percentile 57.98 ms)

9

```
Run 4: Statistics of TCP BBR

Start at: 2018-04-24 06:31:05
End at: 2018-04-24 06:31:35
Local clock offset: -5.221 ms
Remote clock offset: 4.823 ms


# Below is generated by plot.py at 2018-04-24 12:55:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 56.081 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 92.79 Mbit/s
95th percentile per-packet one-way delay: 56.081 ms
Loss rate: 0.68%
```
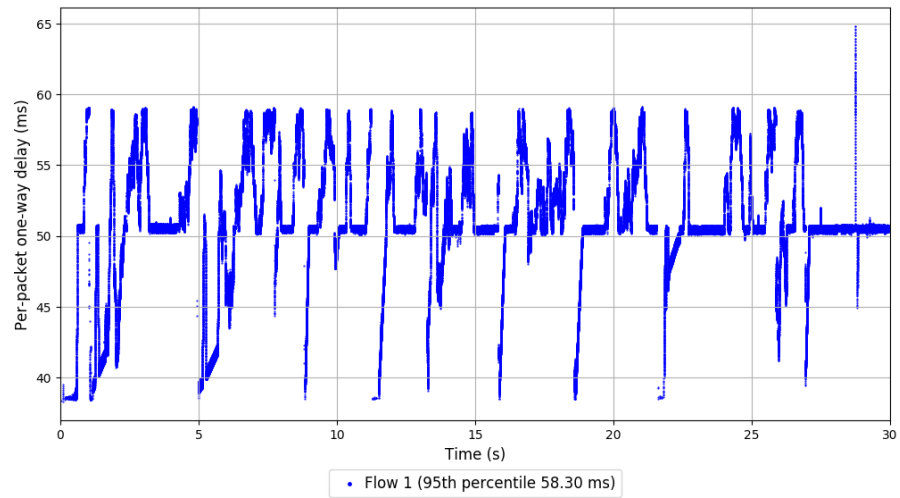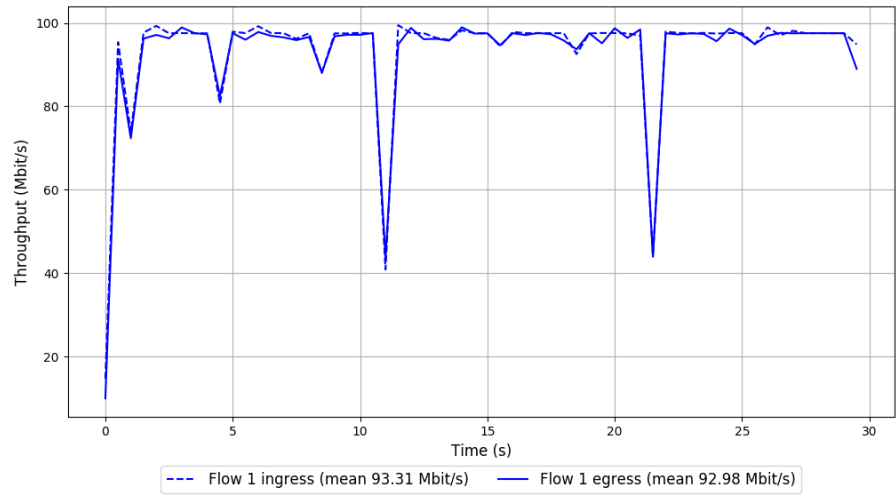
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.21 Mbit/s) ----- Flow 1 egress (mean 92.79 Mbit/s) ——

Flow 1 (95th percentile 56.08 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2018-04-24 06:53:46
End at: 2018-04-24 06:54:16
Local clock offset: -3.439 ms
Remote clock offset: -2.846 ms


# Below is generated by plot.py at 2018-04-24 12:55:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 58.206 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 93.44 Mbit/s
95th percentile per-packet one-way delay: 58.206 ms
Loss rate: 0.82%
```
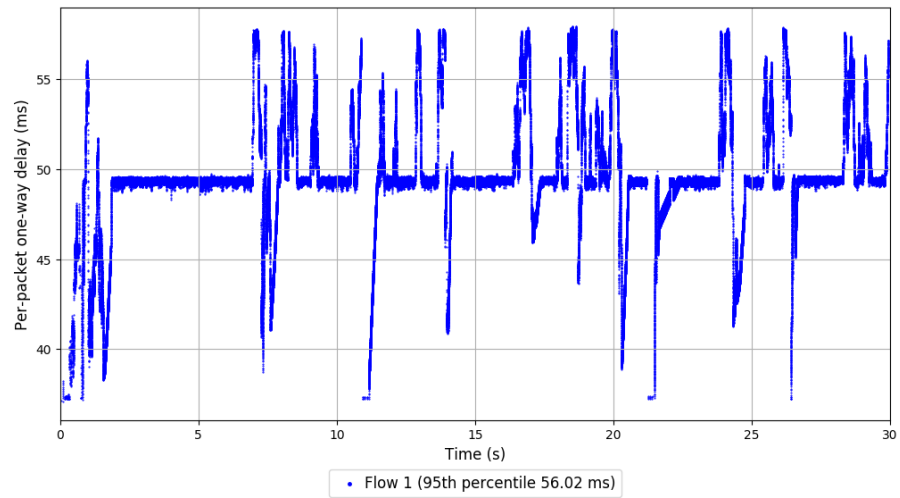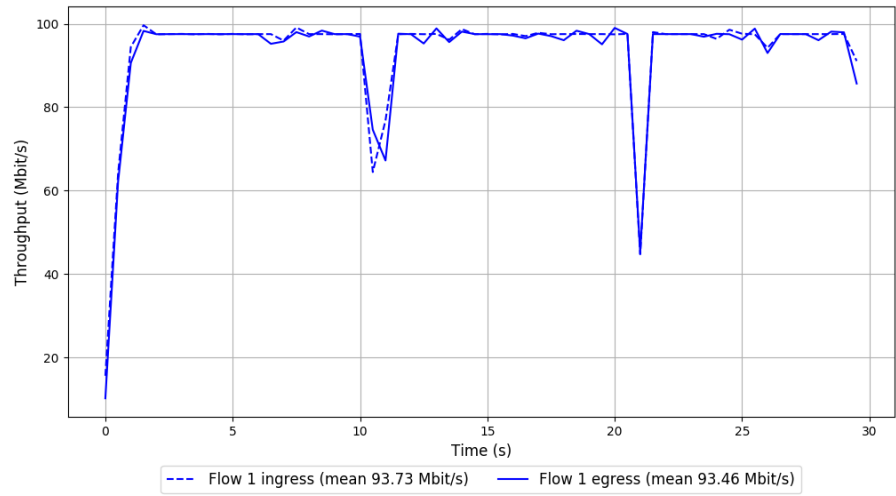
Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.97 Mbit/s)　　Flow 1 egress (mean 93.44 Mbit/s)

Flow 1 (95th percentile 58.21 ms)

```
Run 6: Statistics of TCP BBR

Start at: 2018-04-24 07:16:43
End at: 2018-04-24 07:17:13
Local clock offset: -2.785 ms
Remote clock offset: -2.288 ms


# Below is generated by plot.py at 2018-04-24 12:55:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 58.296 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 92.98 Mbit/s
95th percentile per-packet one-way delay: 58.296 ms
Loss rate: 0.60%
```
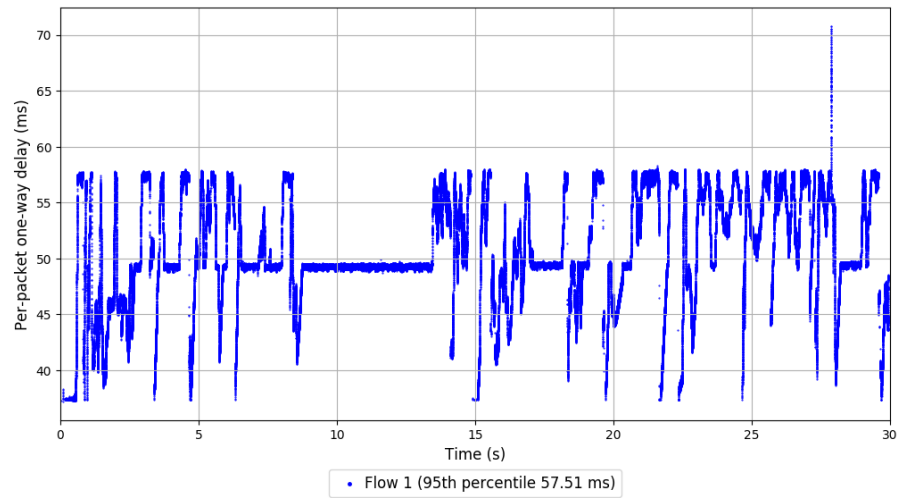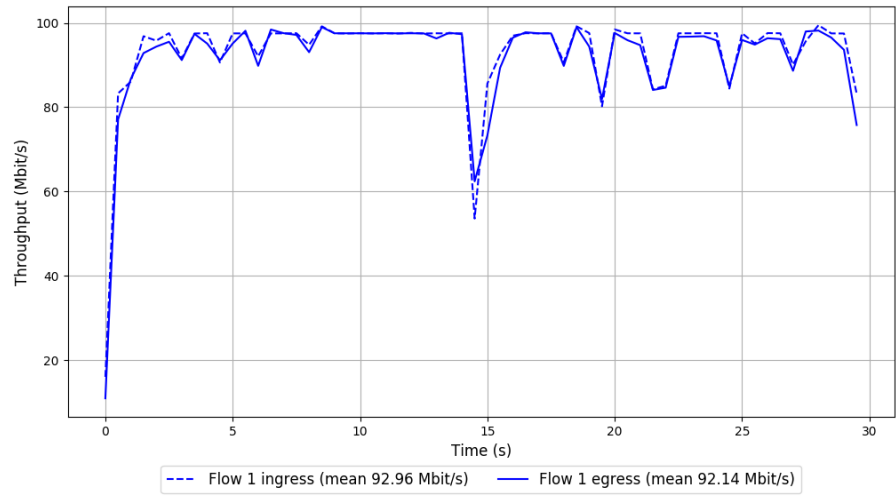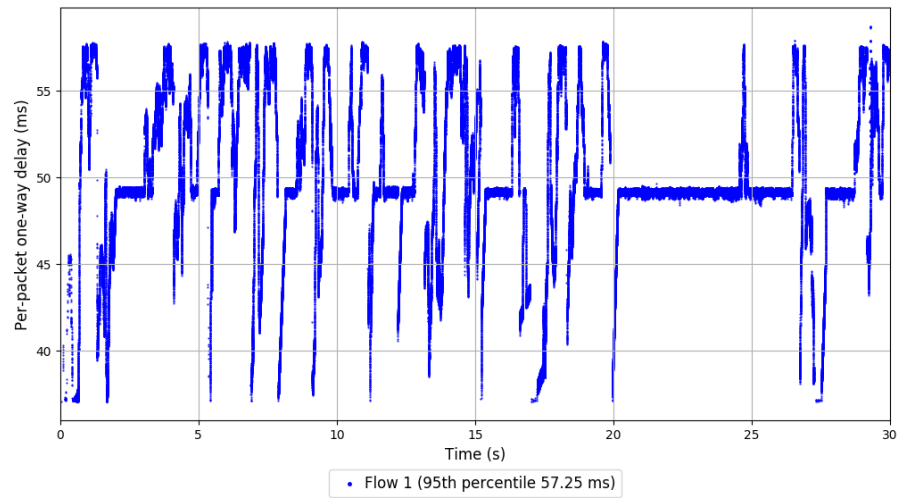
Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.31 Mbit/s) —— Flow 1 egress (mean 92.98 Mbit/s)

• Flow 1 (95th percentile 58.30 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-04-24 07:40:15
End at: 2018-04-24 07:40:45
Local clock offset: -0.717 ms
Remote clock offset: -0.884 ms


# Below is generated by plot.py at 2018-04-24 12:55:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 56.016 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 93.46 Mbit/s
95th percentile per-packet one-way delay: 56.016 ms
Loss rate: 0.51%
```
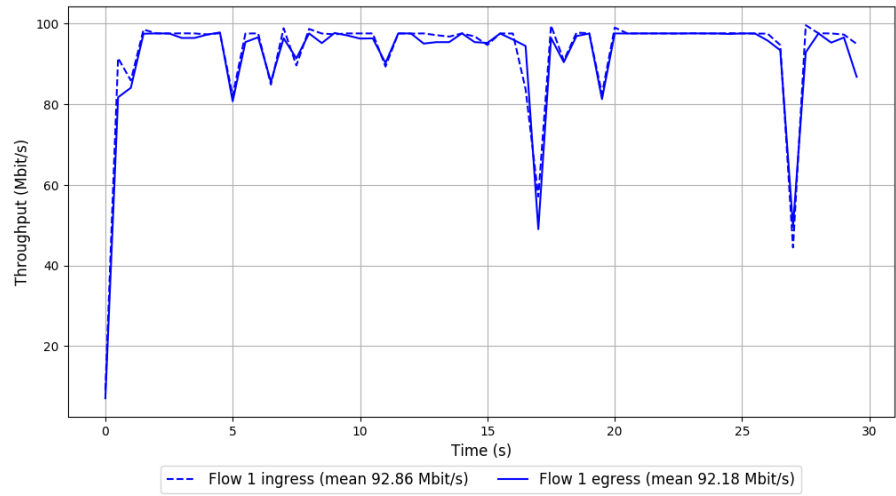
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 93.73 Mbit/s)   Flow 1 egress (mean 93.46 Mbit/s)

Flow 1 (95th percentile 56.02 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-04-24 08:06:00
End at: 2018-04-24 08:06:30
Local clock offset: -0.289 ms
Remote clock offset: -0.854 ms


# Below is generated by plot.py at 2018-04-24 12:55:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 57.506 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 57.506 ms
Loss rate: 1.13%
```
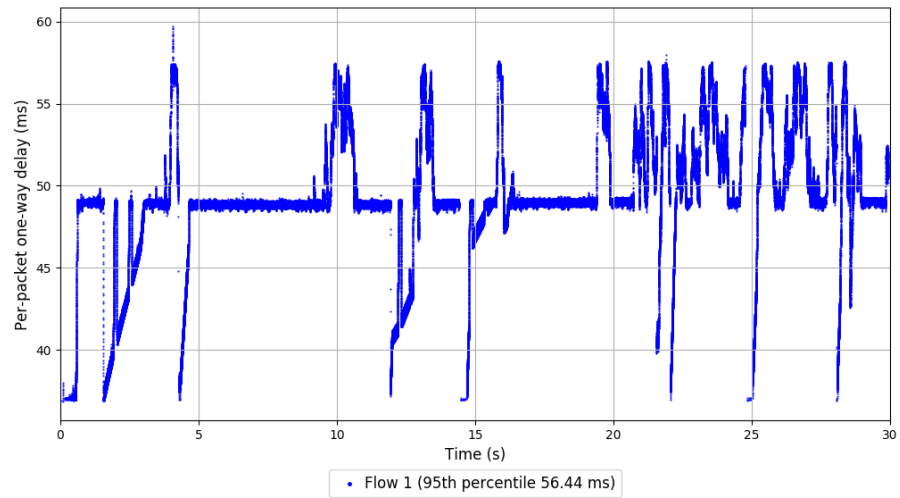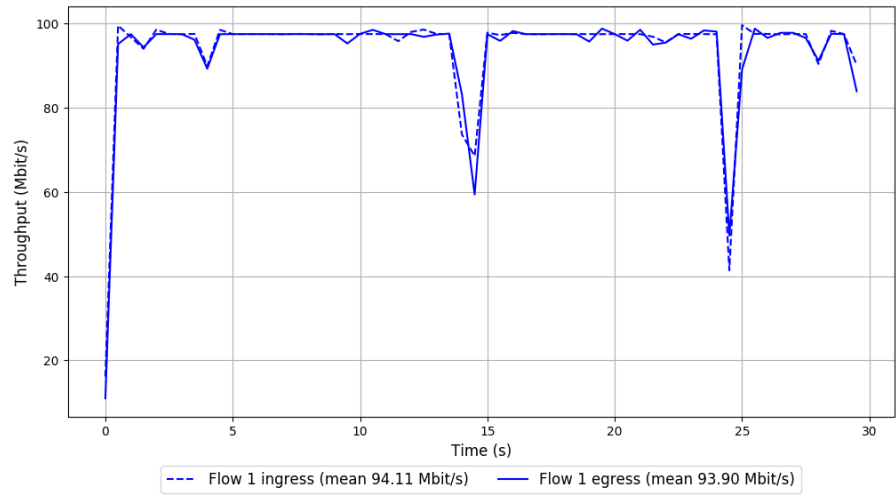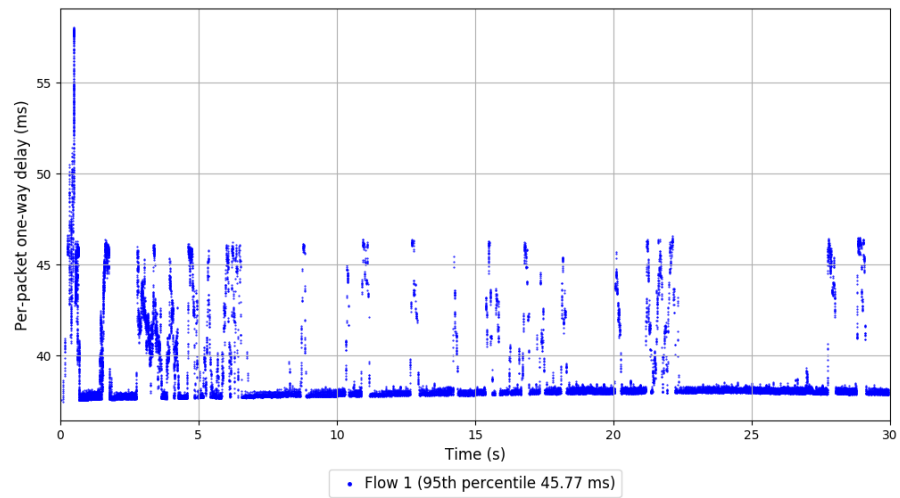
Run 8: Report of TCP BBR — Data Link

```
Run 9: Statistics of TCP BBR

Start at: 2018-04-24 08:29:32
End at: 2018-04-24 08:30:02
Local clock offset: -0.659 ms
Remote clock offset: -2.433 ms


# Below is generated by plot.py at 2018-04-24 12:56:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 57.253 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 57.253 ms
Loss rate: 0.99%
```
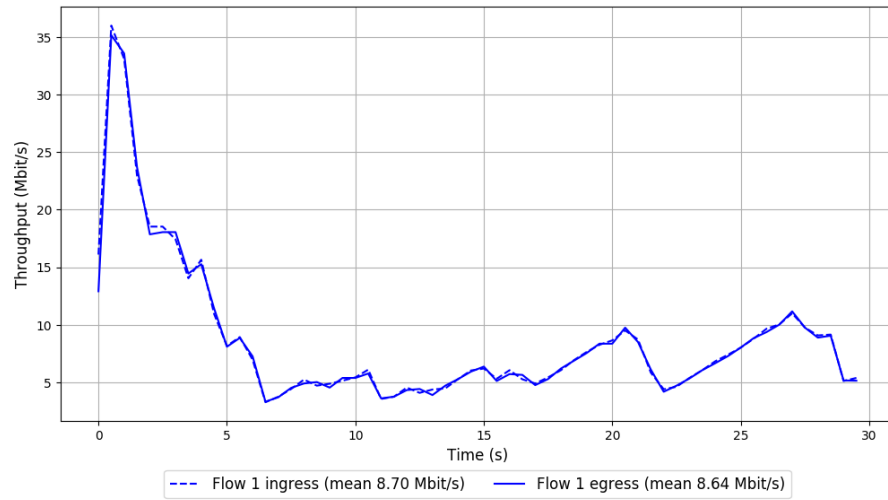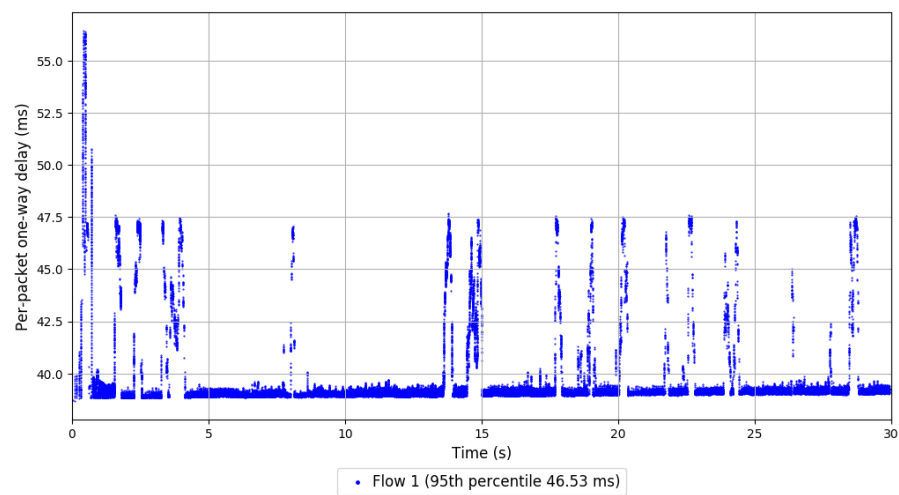
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 92.86 Mbit/s) --- Flow 1 egress (mean 92.18 Mbit/s)

• Flow 1 (95th percentile 57.25 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-04-24 08:53:05
End at: 2018-04-24 08:53:35
Local clock offset: -0.661 ms
Remote clock offset: -2.279 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.90 Mbit/s
95th percentile per-packet one-way delay: 56.436 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 93.90 Mbit/s
95th percentile per-packet one-way delay: 56.436 ms
Loss rate: 0.47%
```
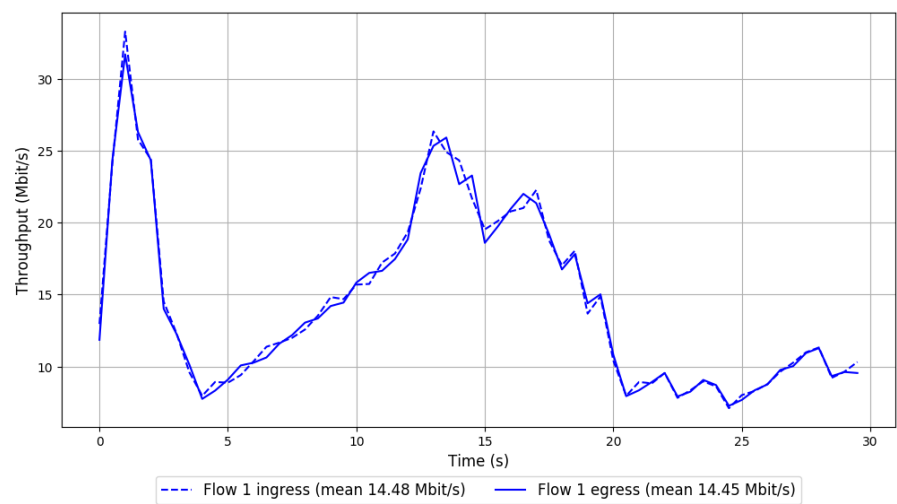
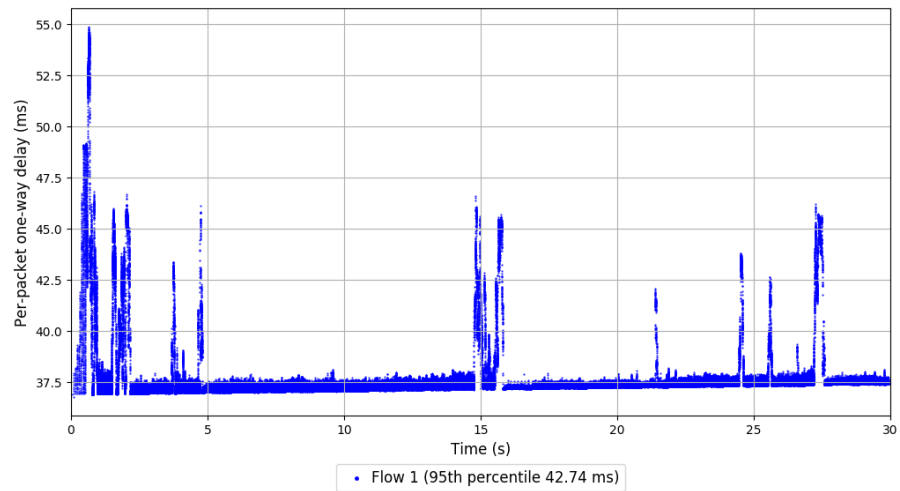Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 05:11:23
End at: 2018-04-24 05:11:53
Local clock offset: -4.035 ms
Remote clock offset: -1.352 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 45.772 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 8.64 Mbit/s
95th percentile per-packet one-way delay: 45.772 ms
Loss rate: 0.86%
```
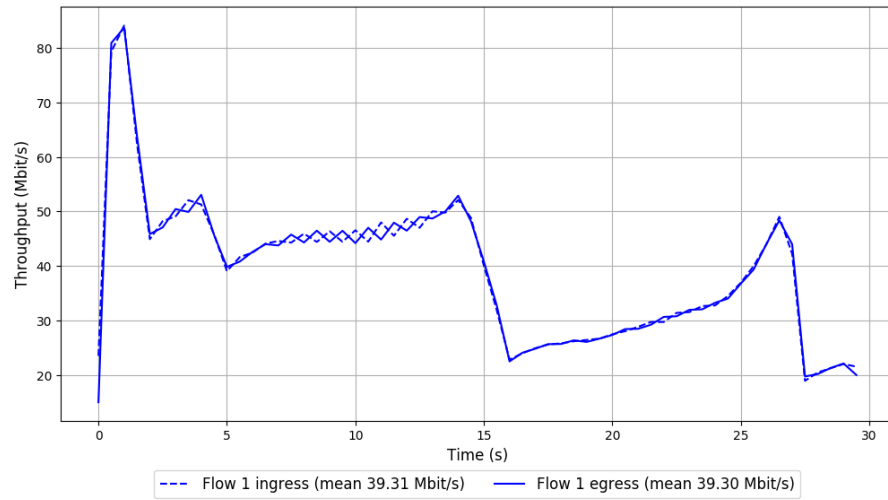
Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 05:35:32
End at: 2018-04-24 05:36:02
Local clock offset: -8.135 ms
Remote clock offset: -3.214 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 46.528 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 46.528 ms
Loss rate: 0.46%
```
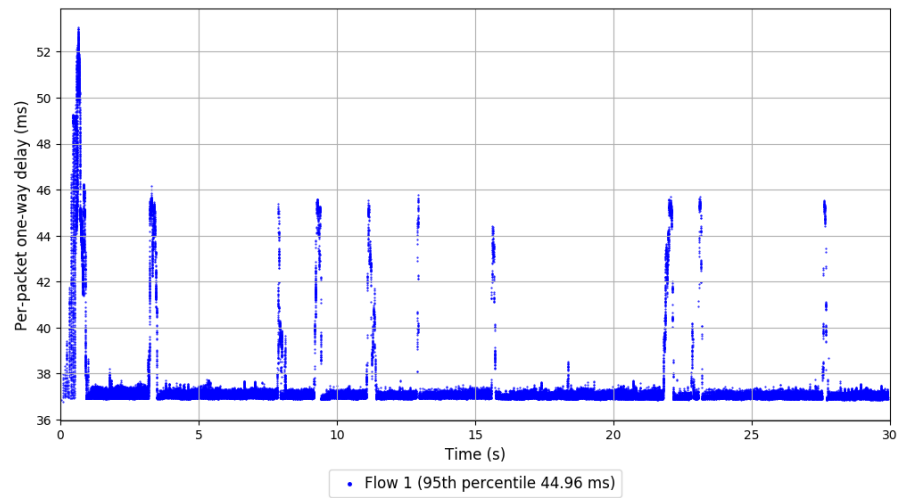
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 05:59:05
End at: 2018-04-24 05:59:35
Local clock offset: -9.222 ms
Remote clock offset: -3.269 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 42.744 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 42.744 ms
Loss rate: 0.24%
```
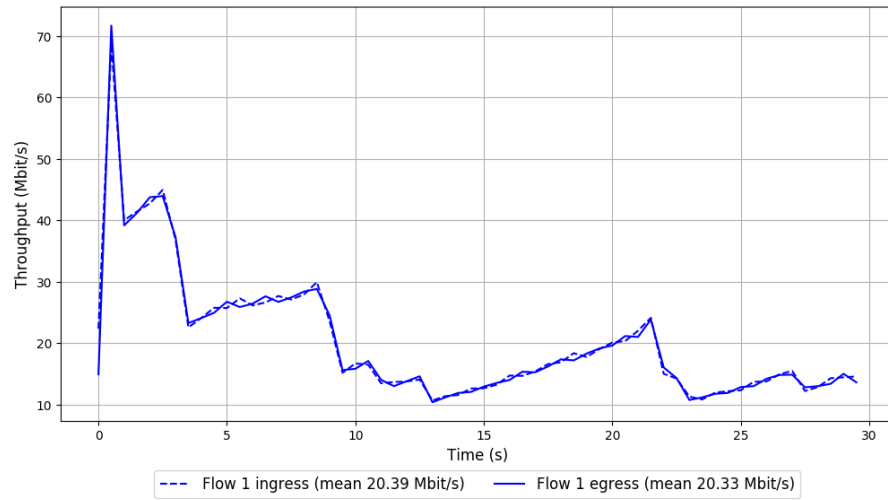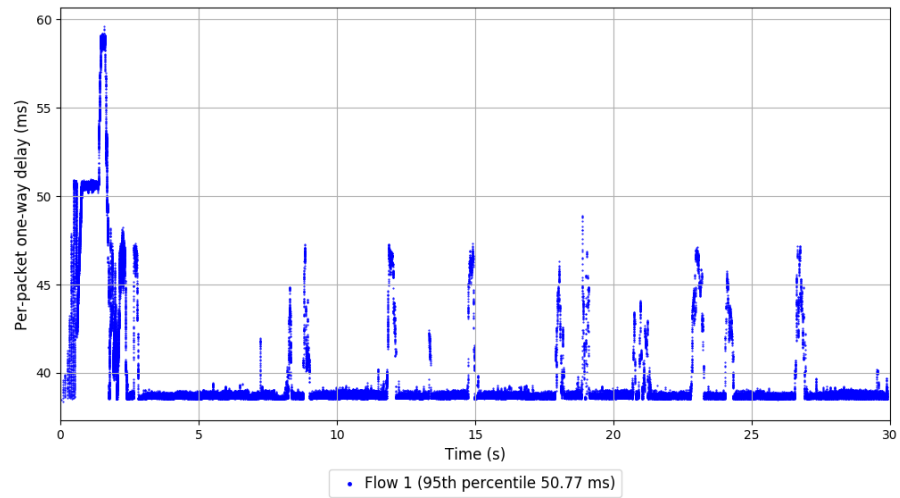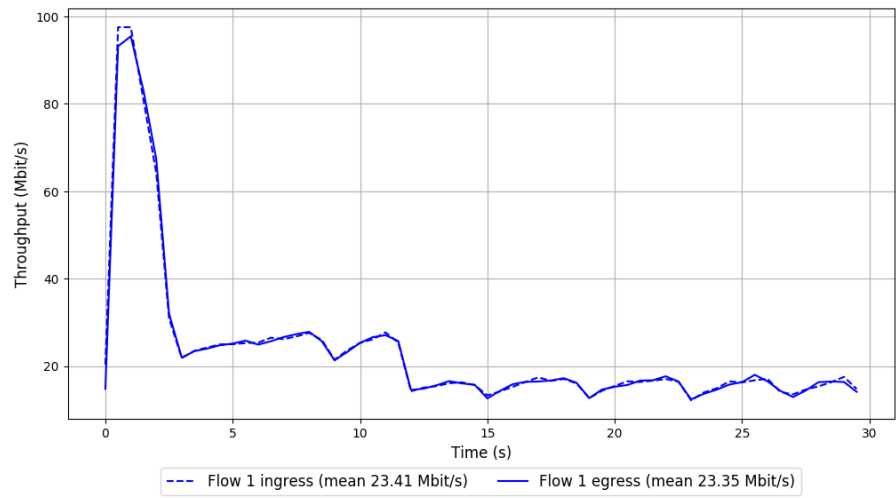
Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 06:21:54
End at: 2018-04-24 06:22:24
Local clock offset: -6.367 ms
Remote clock offset: 3.259 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 44.957 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 44.957 ms
Loss rate: 0.52%
```
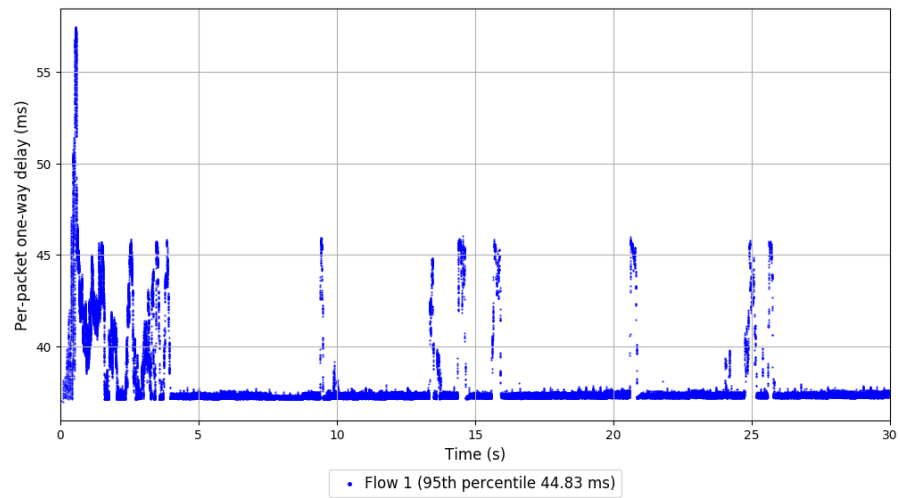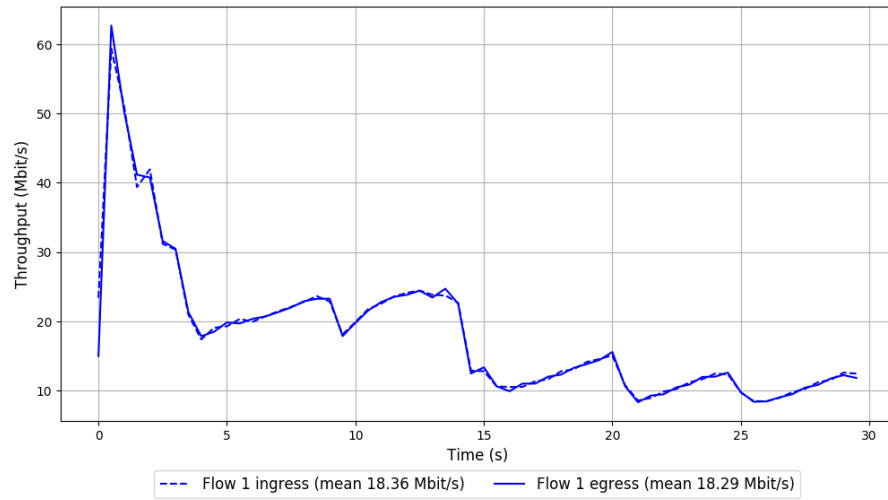
Run 4: Report of TCP Cubic — Data Link

```
Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 06:44:30
End at: 2018-04-24 06:45:00
Local clock offset: -6.569 ms
Remote clock offset: -1.639 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 50.775 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 23.35 Mbit/s
95th percentile per-packet one-way delay: 50.775 ms
Loss rate: 0.51%
```
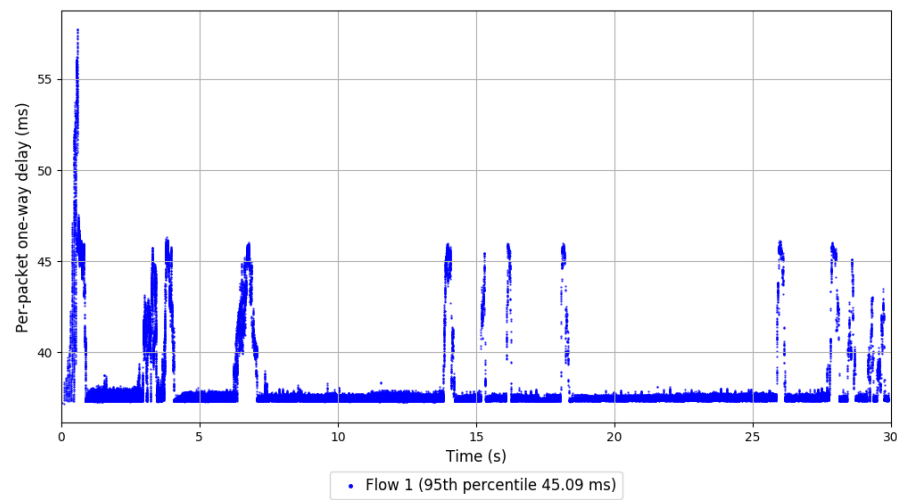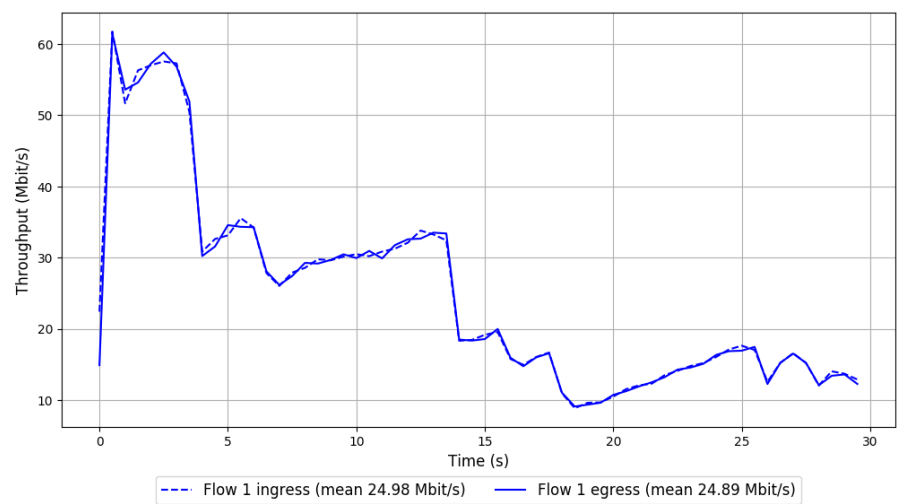
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 23.41 Mbit/s) —— Flow 1 egress (mean 23.35 Mbit/s)

• Flow 1 (95th percentile 50.77 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 07:07:25
End at: 2018-04-24 07:07:55
Local clock offset: -2.366 ms
Remote clock offset: -2.928 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.29 Mbit/s
95th percentile per-packet one-way delay: 44.829 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 18.29 Mbit/s
95th percentile per-packet one-way delay: 44.829 ms
Loss rate: 0.57%
```

Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 18.36 Mbit/s)   Flow 1 egress (mean 18.29 Mbit/s)

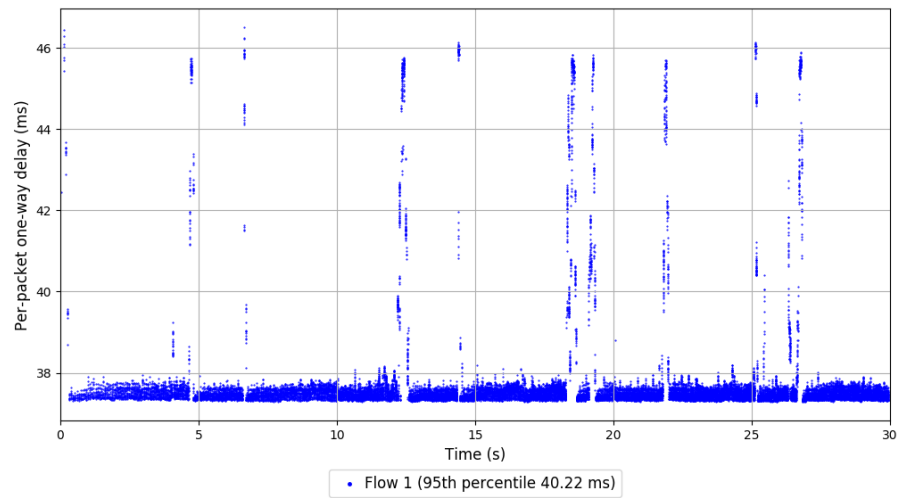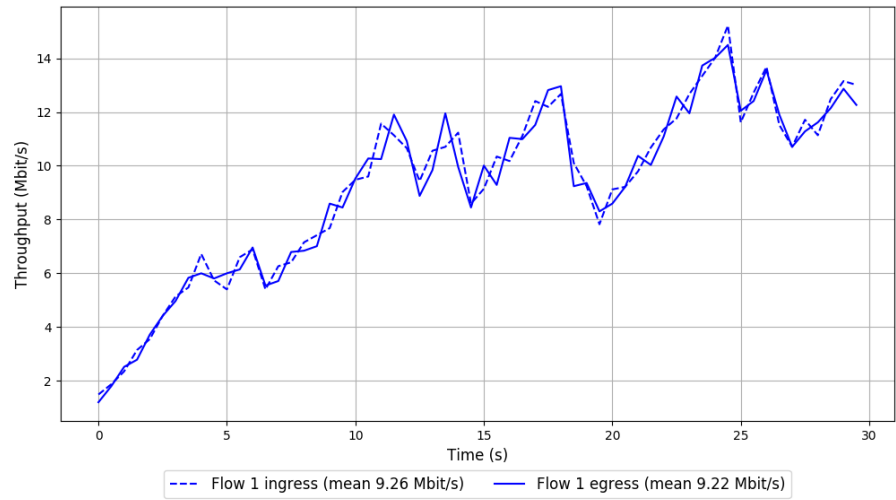

Flow 1 (95th percentile 44.83 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 07:30:47
End at: 2018-04-24 07:31:17
Local clock offset: -1.005 ms
Remote clock offset: -1.458 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 45.092 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 24.89 Mbit/s
95th percentile per-packet one-way delay: 45.092 ms
Loss rate: 0.56%
```
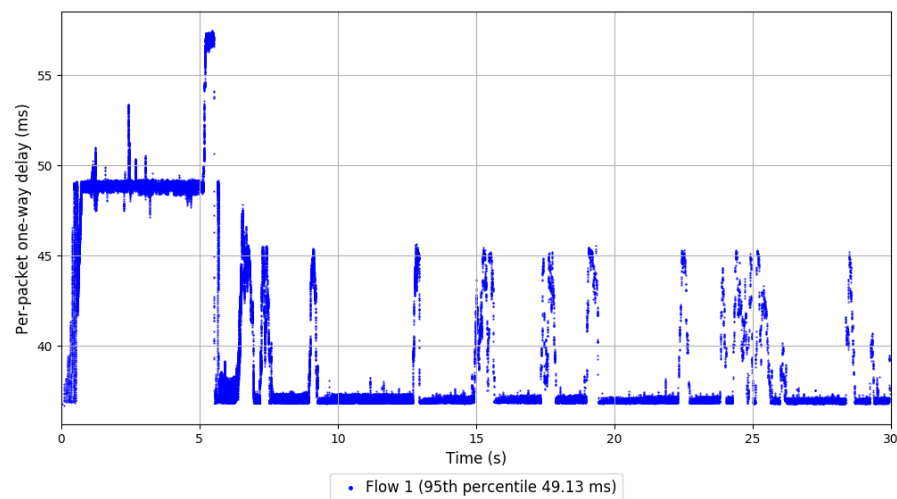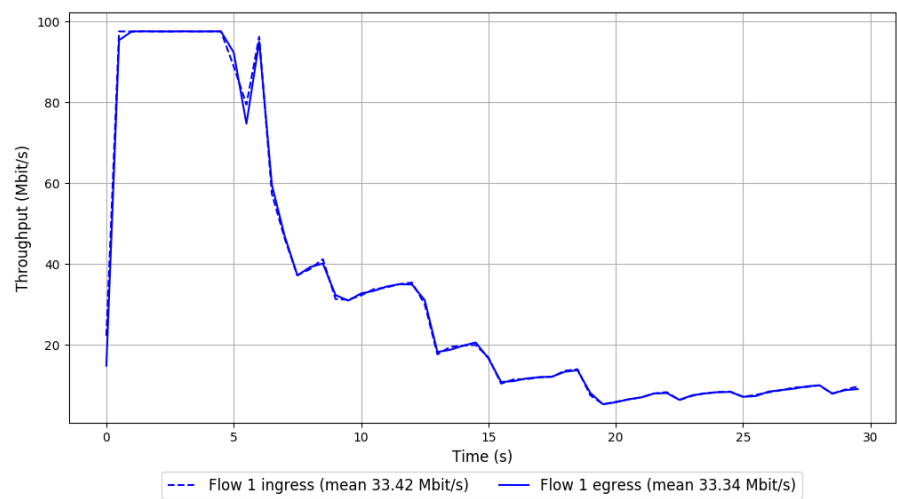
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 24.98 Mbit/s) --- Flow 1 egress (mean 24.89 Mbit/s)

• Flow 1 (95th percentile 45.09 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 07:56:27
End at: 2018-04-24 07:56:57
Local clock offset: -0.467 ms
Remote clock offset: -1.194 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 40.223 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 9.22 Mbit/s
95th percentile per-packet one-way delay: 40.223 ms
Loss rate: 0.68%
```
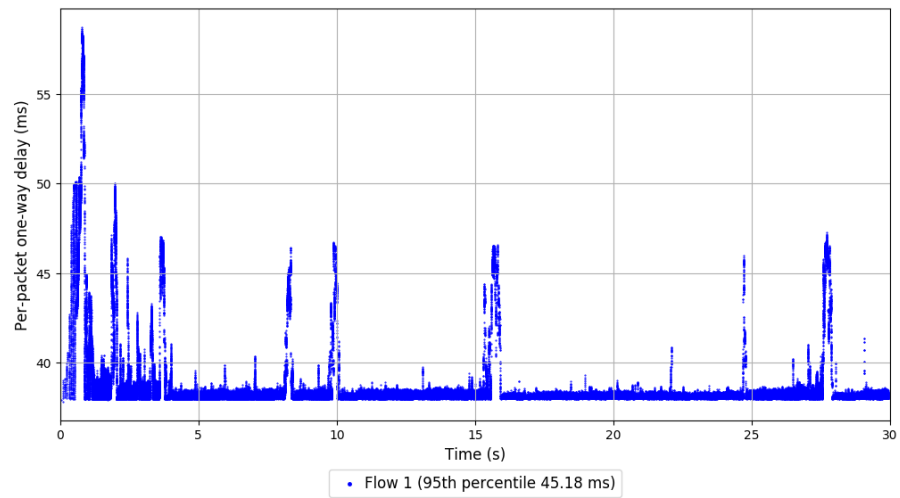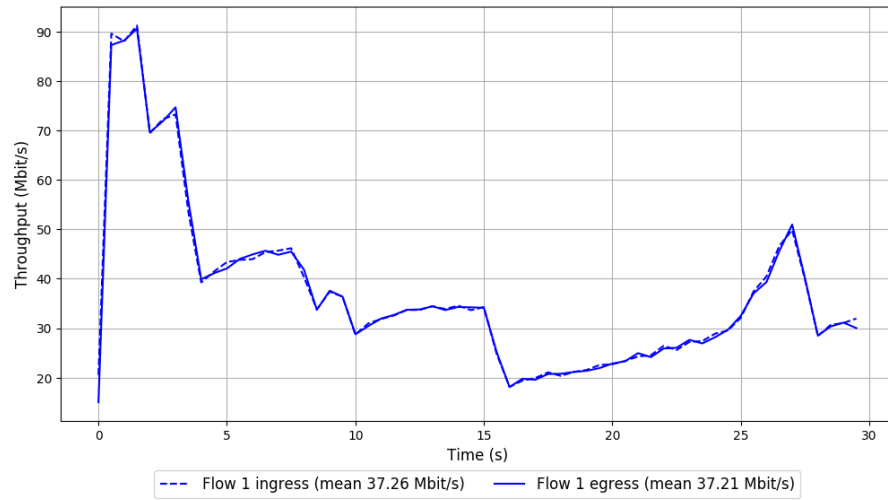
Run 8: Report of TCP Cubic — Data Link

```
Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 08:20:02
End at: 2018-04-24 08:20:32
Local clock offset: -0.316 ms
Remote clock offset: -1.083 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.34 Mbit/s
95th percentile per-packet one-way delay: 49.134 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 33.34 Mbit/s
95th percentile per-packet one-way delay: 49.134 ms
Loss rate: 0.45%
```
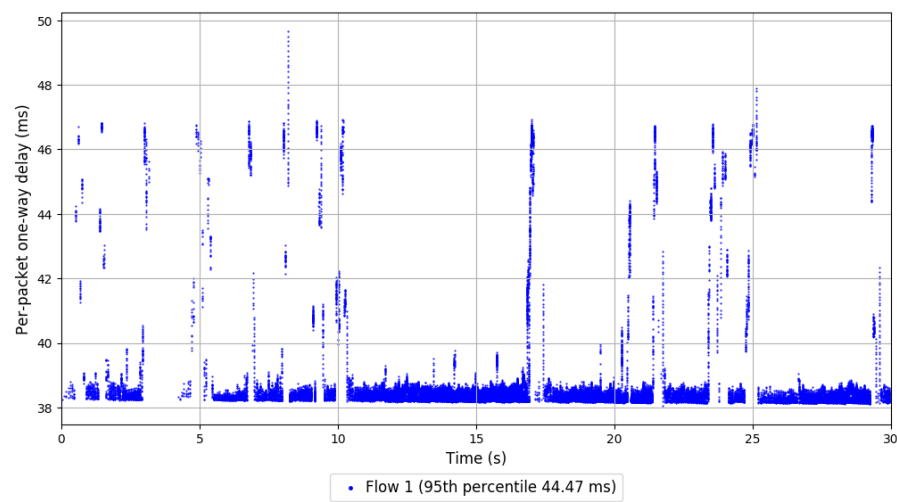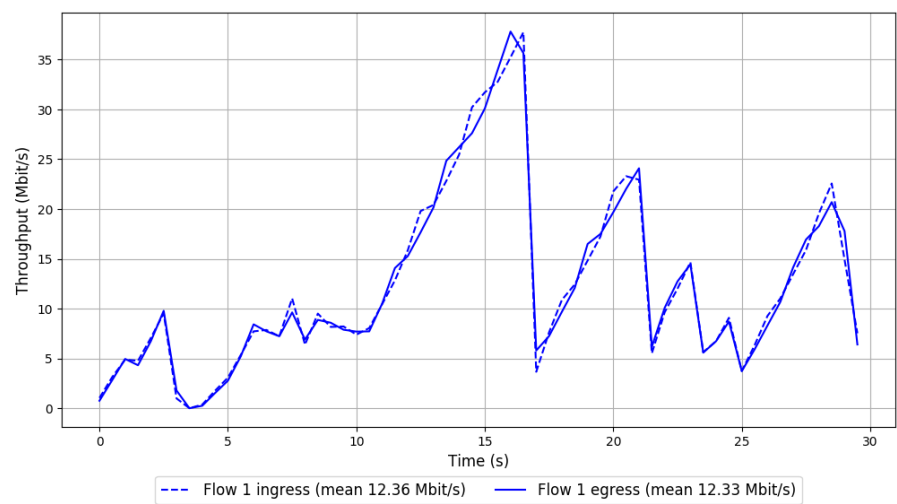
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 33.42 Mbit/s) —— Flow 1 egress (mean 33.34 Mbit/s)

• Flow 1 (95th percentile 49.13 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 08:43:17
End at: 2018-04-24 08:43:47
Local clock offset: -0.581 ms
Remote clock offset: -1.938 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 45.178 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 37.21 Mbit/s
95th percentile per-packet one-way delay: 45.178 ms
Loss rate: 0.37%
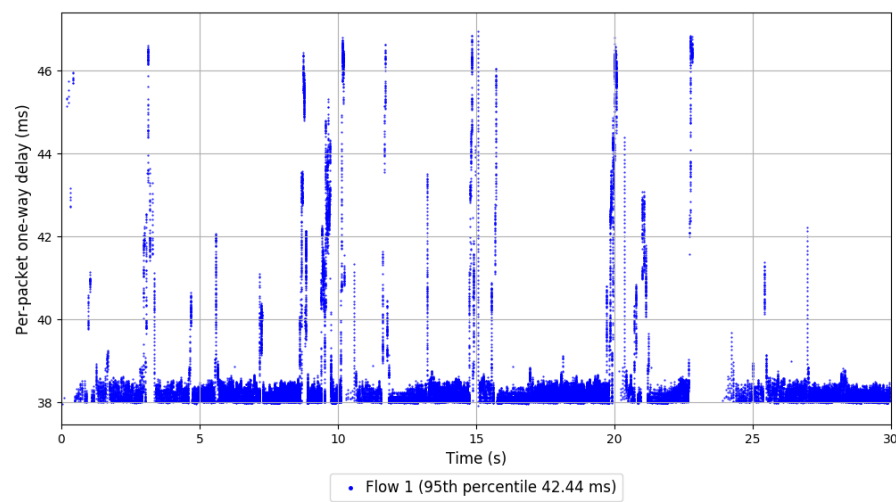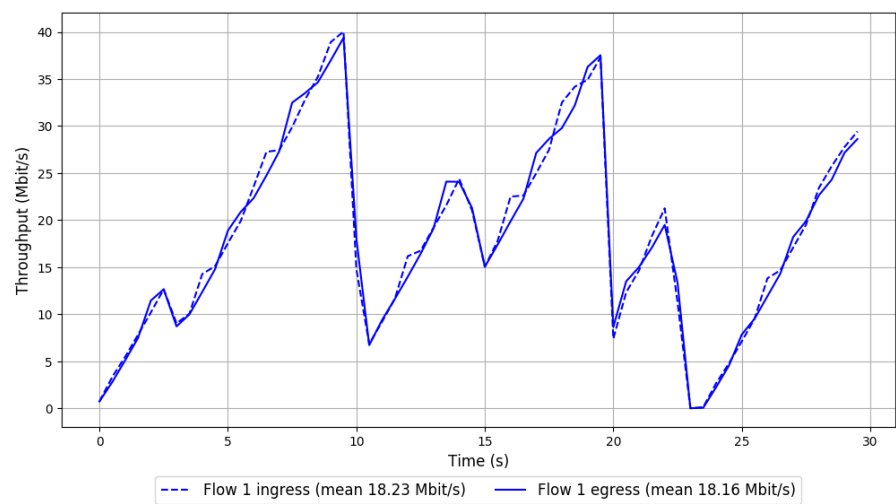```

Run 10: Report of TCP Cubic — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 05:22:41
End at: 2018-04-24 05:23:11
Local clock offset: -5.625 ms
Remote clock offset: -0.508 ms

# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 44.471 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 12.33 Mbit/s
95th percentile per-packet one-way delay: 44.471 ms
Loss rate: 0.49%
```

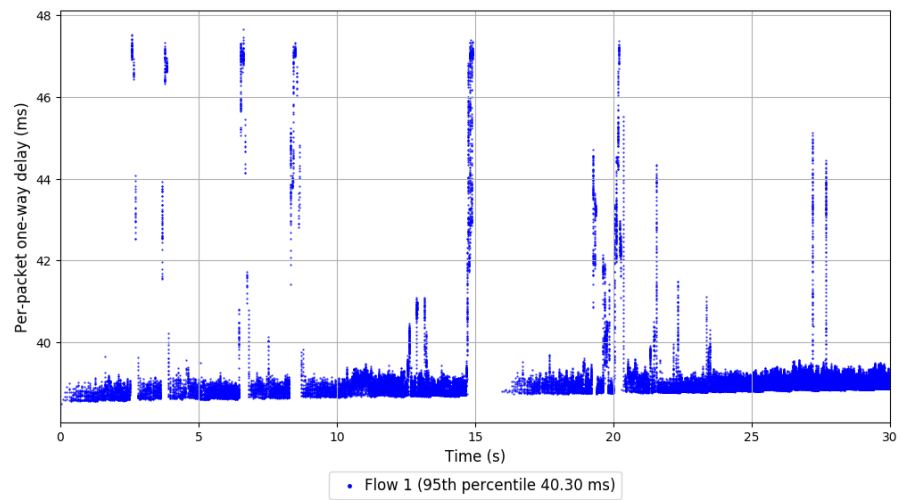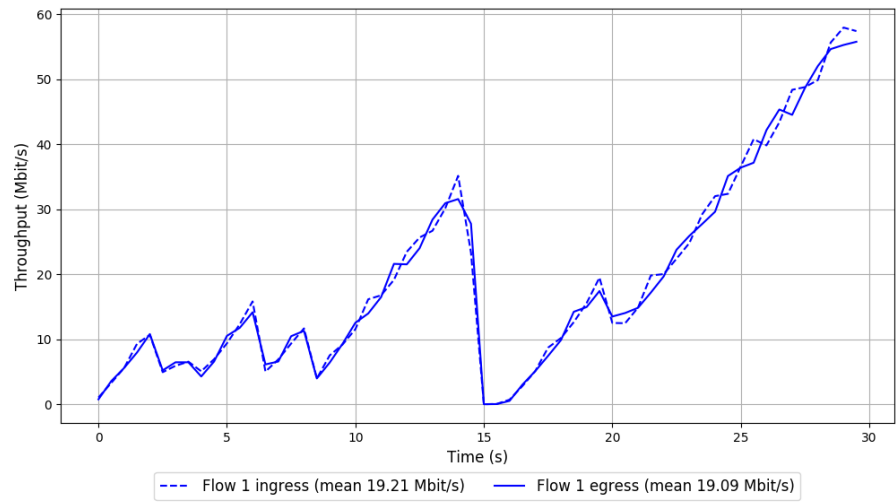Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2018-04-24 05:46:30
End at: 2018-04-24 05:47:00
Local clock offset: -7.001 ms
Remote clock offset: -3.481 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.16 Mbit/s
95th percentile per-packet one-way delay: 42.435 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 18.16 Mbit/s
95th percentile per-packet one-way delay: 42.435 ms
Loss rate: 0.60%
```

Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 18.23 Mbit/s) --- Flow 1 egress (mean 18.16 Mbit/s)

• Flow 1 (95th percentile 42.44 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2018-04-24 06:09:44
End at: 2018-04-24 06:10:14
Local clock offset: -12.723 ms
Remote clock offset: 1.111 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.09 Mbit/s
95th percentile per-packet one-way delay: 40.304 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 19.09 Mbit/s
95th percentile per-packet one-way delay: 40.304 ms
Loss rate: 0.85%
```
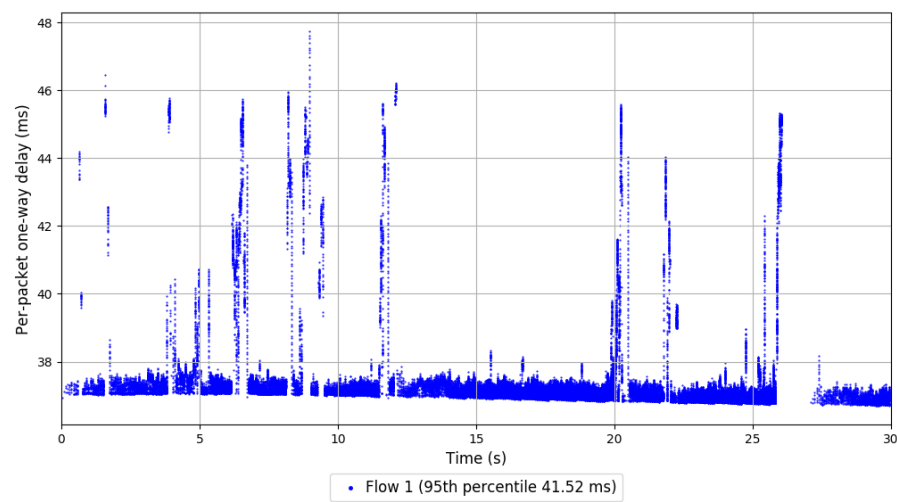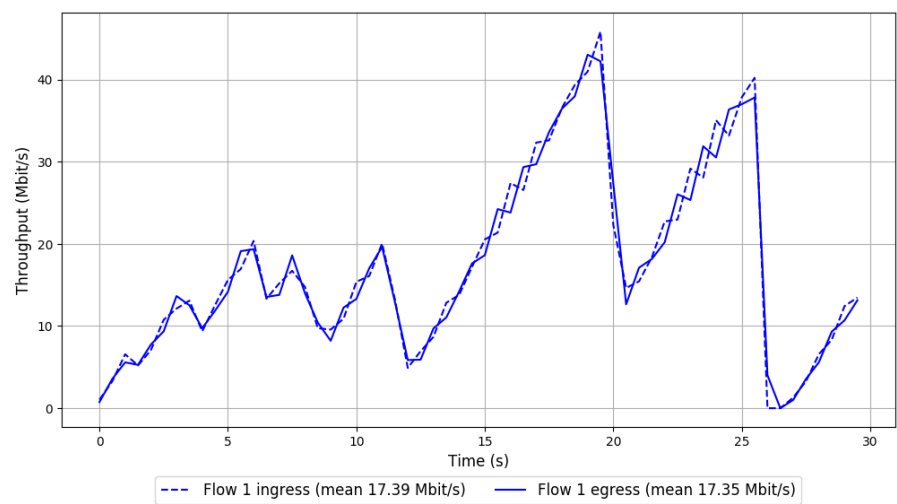
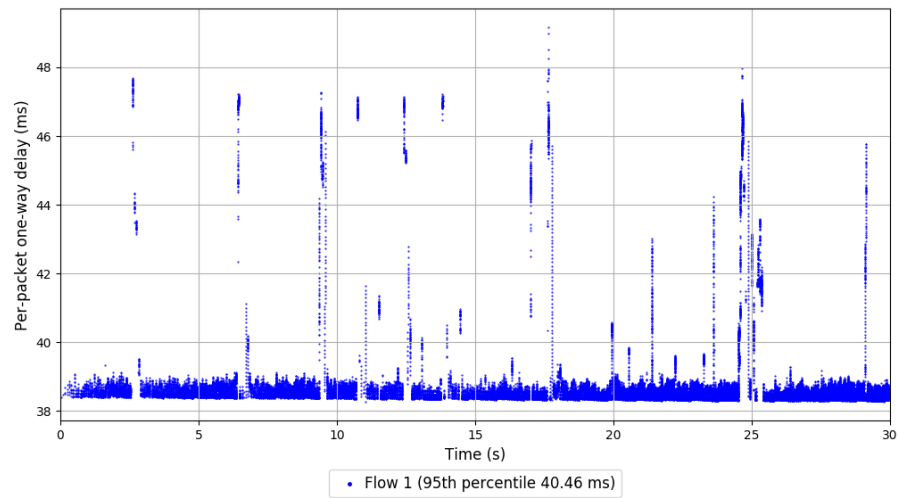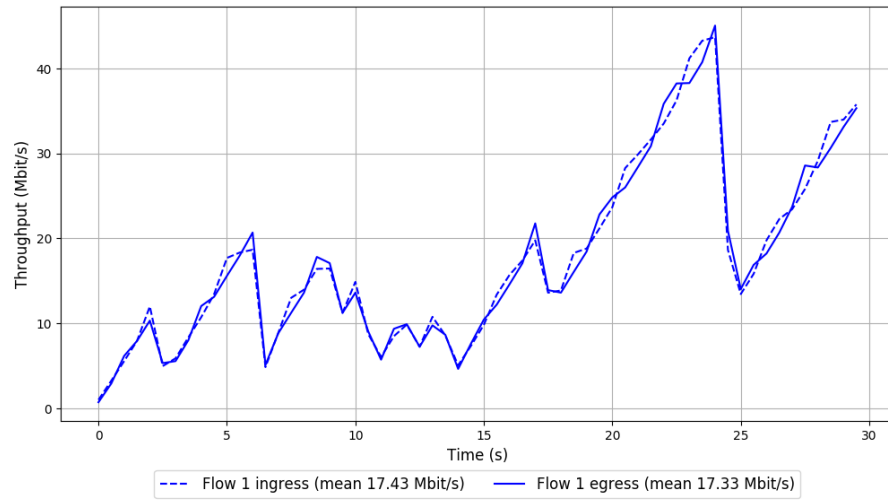## Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 19.21 Mbit/s) --- Flow 1 egress (mean 19.09 Mbit/s)

• Flow 1 (95th percentile 40.30 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2018-04-24 06:32:27
End at: 2018-04-24 06:32:57
Local clock offset: -5.375 ms
Remote clock offset: 4.534 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.35 Mbit/s
95th percentile per-packet one-way delay: 41.516 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 17.35 Mbit/s
95th percentile per-packet one-way delay: 41.516 ms
Loss rate: 0.45%
```

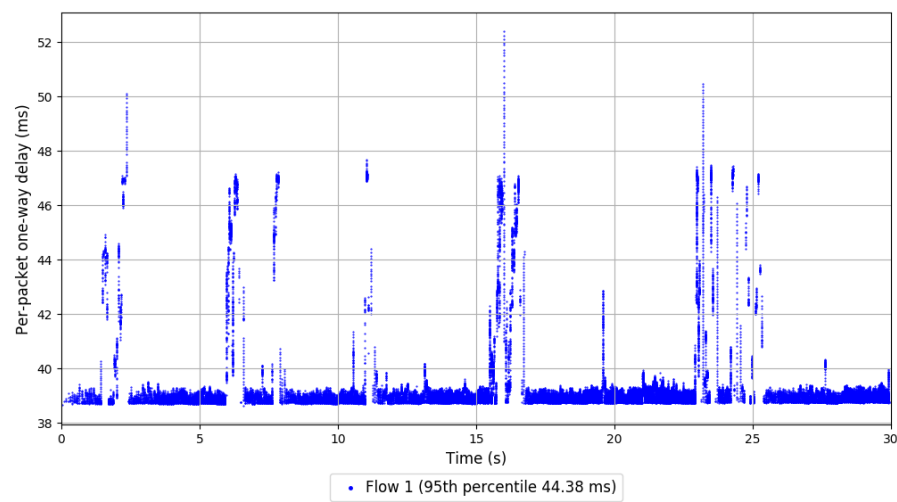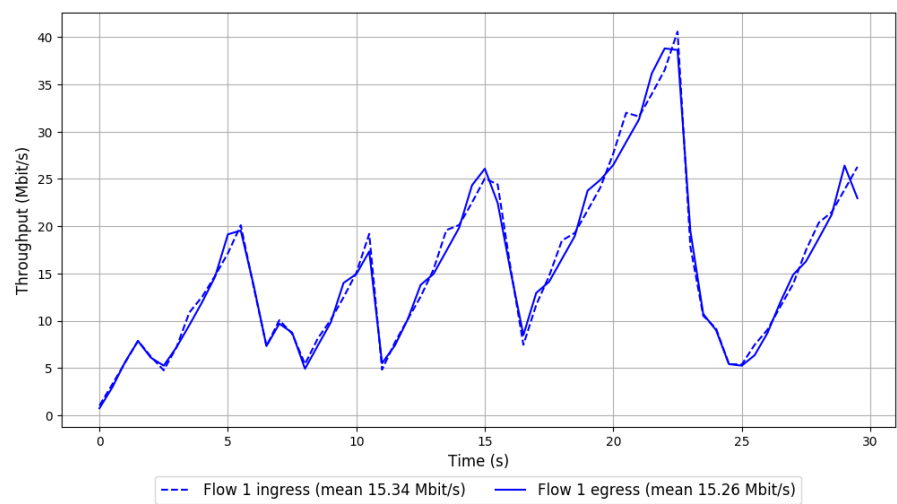Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2018-04-24 06:55:09
End at: 2018-04-24 06:55:39
Local clock offset: -3.139 ms
Remote clock offset: -2.864 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.33 Mbit/s
95th percentile per-packet one-way delay: 40.456 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 17.33 Mbit/s
95th percentile per-packet one-way delay: 40.456 ms
Loss rate: 0.77%
```

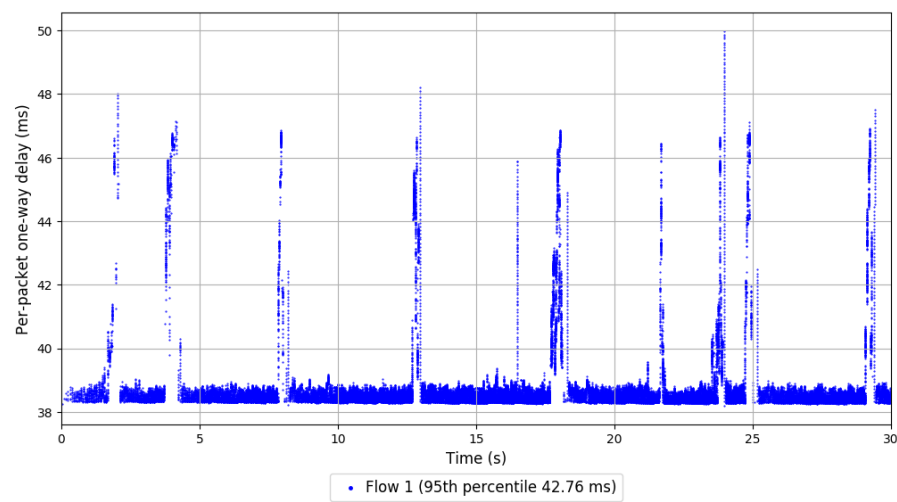Run 5: Report of LEDBAT — Data Link

```
Run 6: Statistics of LEDBAT

Start at: 2018-04-24 07:18:08
End at: 2018-04-24 07:18:38
Local clock offset: -2.812 ms
Remote clock offset: -2.251 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.26 Mbit/s
95th percentile per-packet one-way delay: 44.378 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 15.26 Mbit/s
95th percentile per-packet one-way delay: 44.378 ms
Loss rate: 0.63%
```

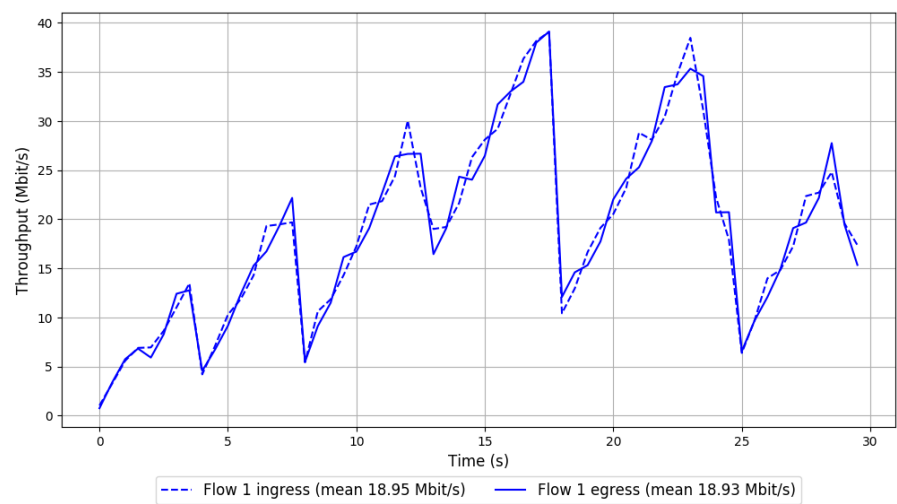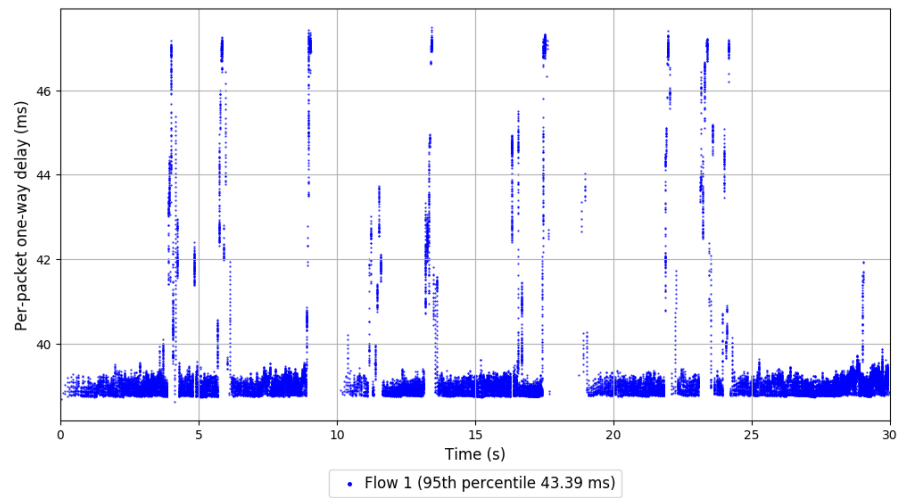Run 6: Report of LEDBAT — Data Link

```
Run 7: Statistics of LEDBAT

Start at: 2018-04-24 07:41:36
End at: 2018-04-24 07:42:06
Local clock offset: -0.584 ms
Remote clock offset: -0.371 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 42.762 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 42.762 ms
Loss rate: 0.33%
```

Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 18.95 Mbit/s) — — — Flow 1 egress (mean 18.93 Mbit/s)

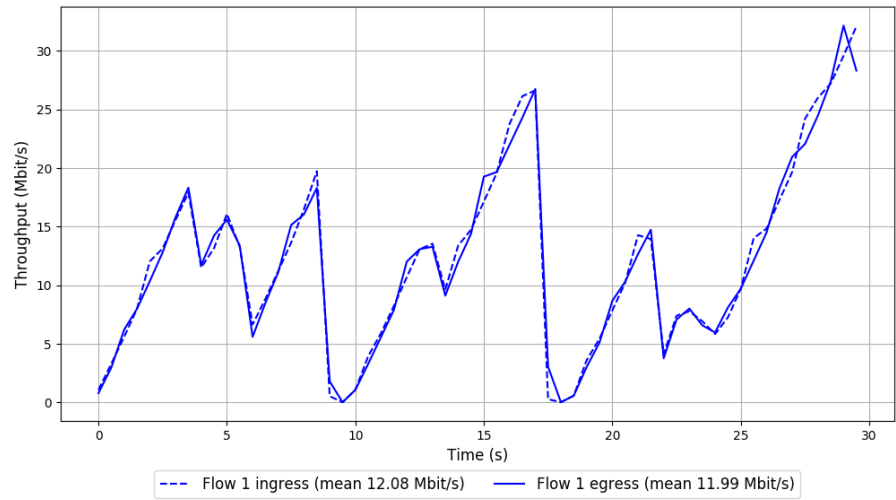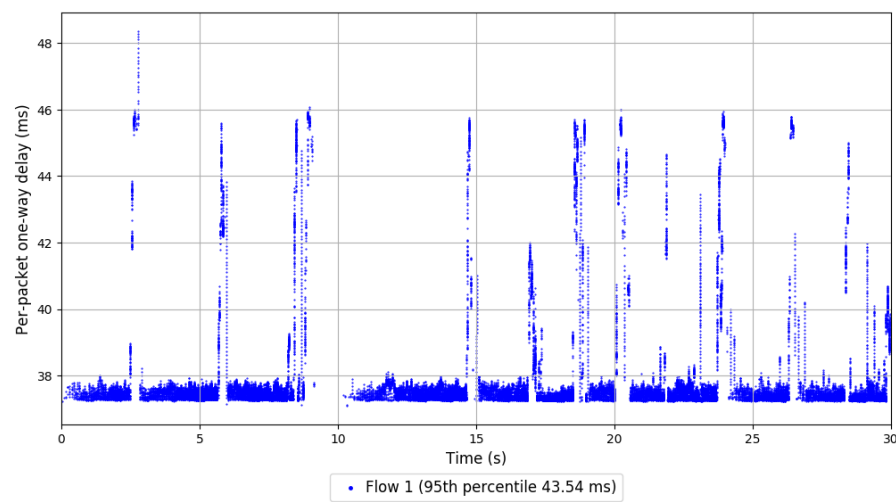• Flow 1 (95th percentile 42.76 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2018-04-24 08:07:29
End at: 2018-04-24 08:07:59
Local clock offset: -0.254 ms
Remote clock offset: -0.797 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 43.393 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 43.393 ms
Loss rate: 1.02%
```

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 12.08 Mbit/s)   Flow 1 egress (mean 11.99 Mbit/s)

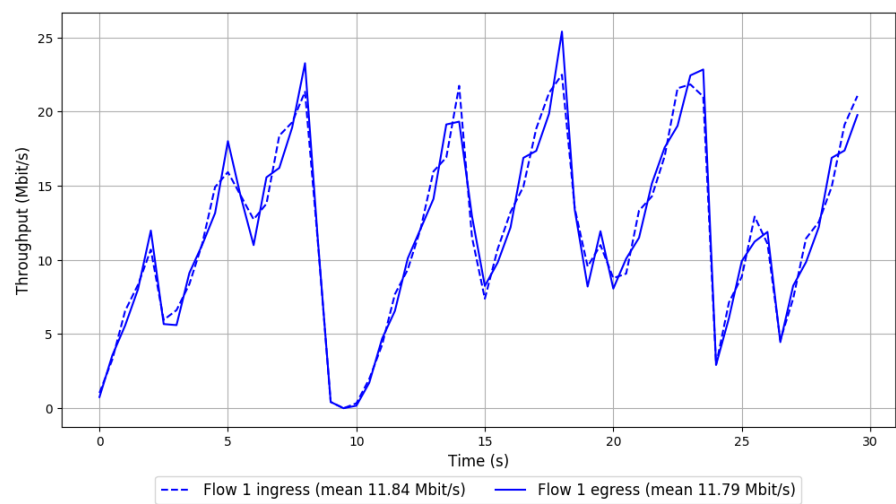• Flow 1 (95th percentile 43.39 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2018-04-24 08:30:55
End at: 2018-04-24 08:31:25
Local clock offset: -0.34 ms
Remote clock offset: -2.449 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 43.536 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 11.79 Mbit/s
95th percentile per-packet one-way delay: 43.536 ms
Loss rate: 0.67%
```

Run 9: Report of LEDBAT — Data Link

```
Run 10: Statistics of LEDBAT

Start at: 2018-04-24 08:54:32
End at: 2018-04-24 08:55:02
Local clock offset: -0.54 ms
Remote clock offset: -2.342 ms


# Below is generated by plot.py at 2018-04-24 12:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.53 Mbit/s
95th percentile per-packet one-way delay: 40.331 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 23.53 Mbit/s
95th percentile per-packet one-way delay: 40.331 ms
Loss rate: 0.36%
```
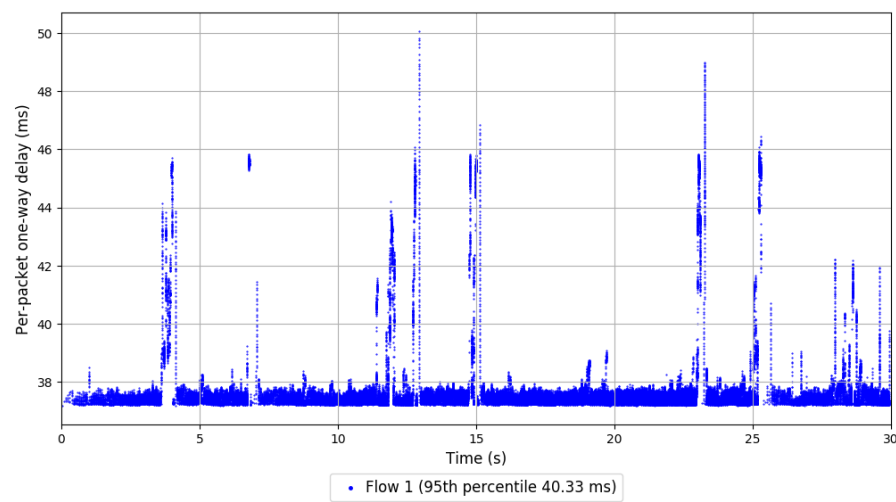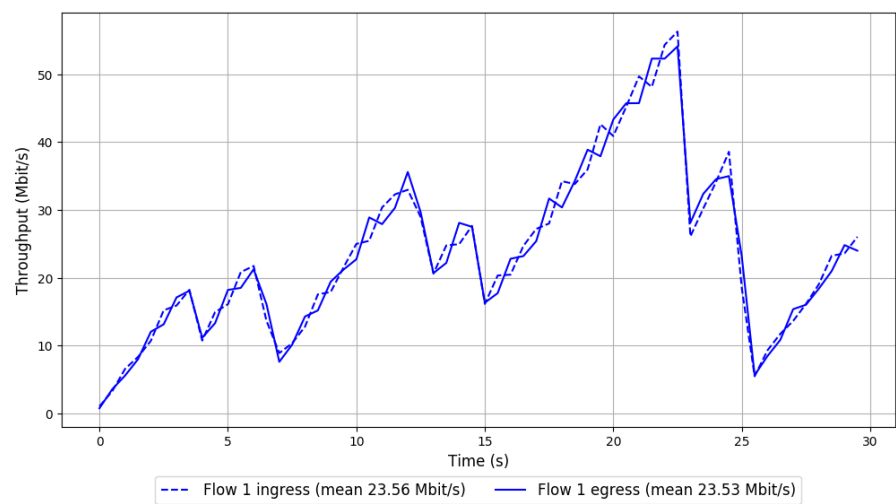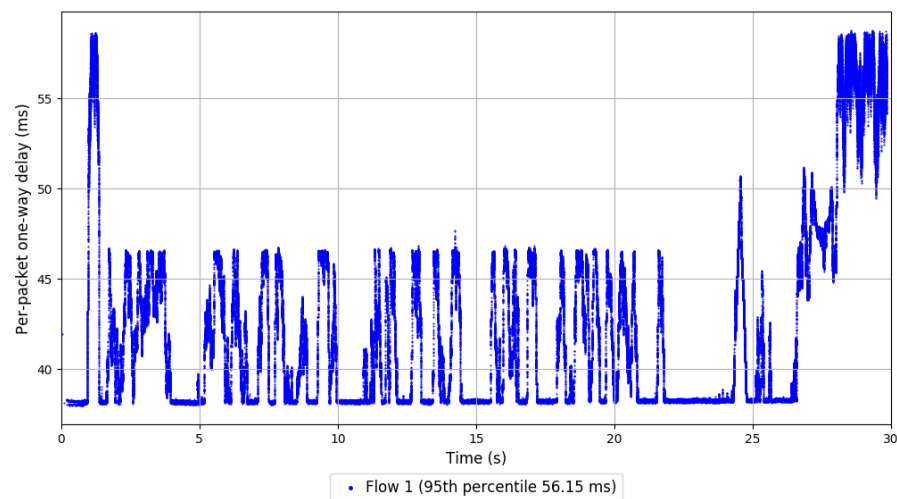
Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 23.56 Mbit/s)   Flow 1 egress (mean 23.53 Mbit/s)

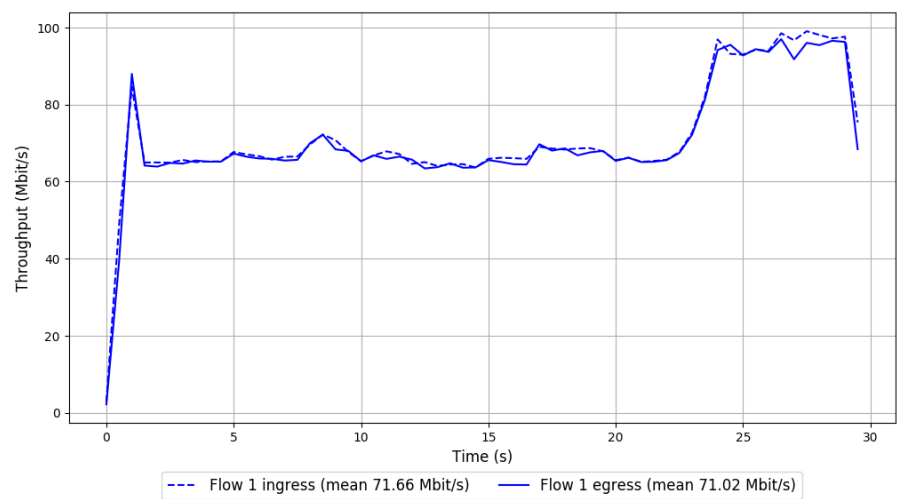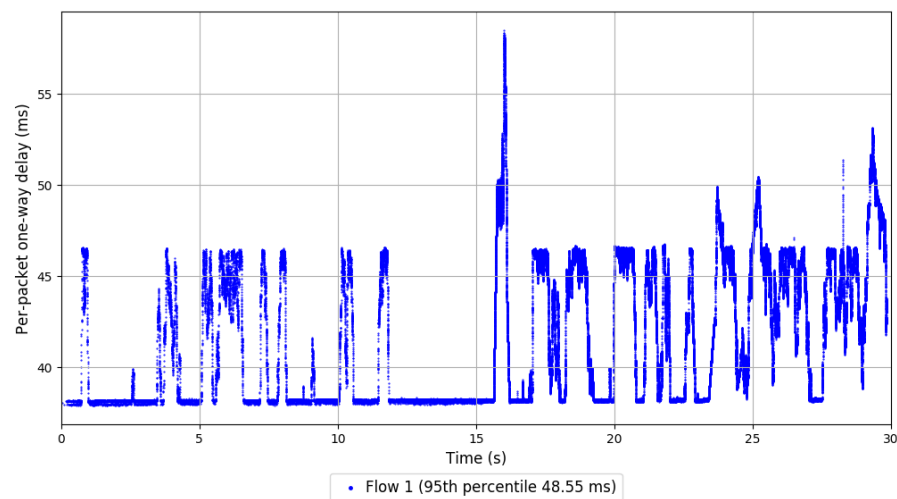• Flow 1 (95th percentile 40.33 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 05:08:26
End at: 2018-04-24 05:08:56
Local clock offset: -3.015 ms
Remote clock offset: -1.665 ms


# Below is generated by plot.py at 2018-04-24 12:57:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.02 Mbit/s
95th percentile per-packet one-way delay: 56.151 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 71.02 Mbit/s
95th percentile per-packet one-way delay: 56.151 ms
Loss rate: 1.15%
```
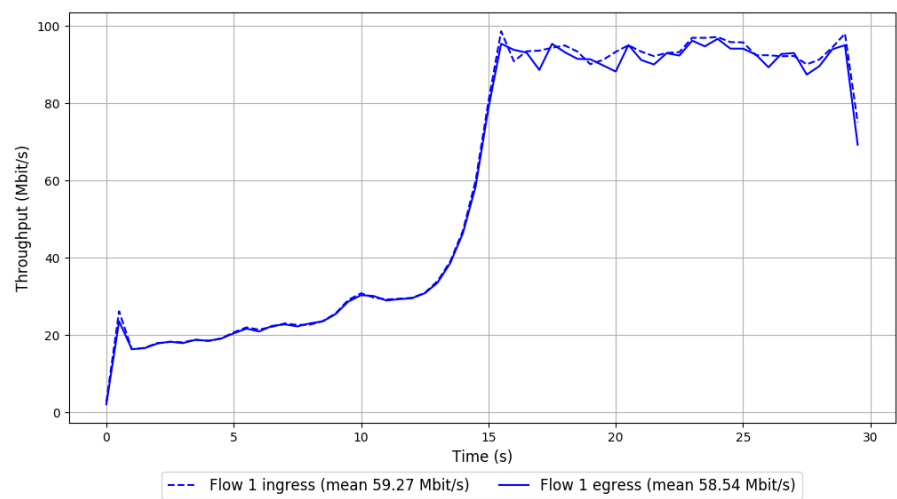
Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 05:32:40
End at: 2018-04-24 05:33:10
Local clock offset: -7.021 ms
Remote clock offset: -2.323 ms


# Below is generated by plot.py at 2018-04-24 12:57:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.54 Mbit/s
95th percentile per-packet one-way delay: 48.545 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 58.54 Mbit/s
95th percentile per-packet one-way delay: 48.545 ms
Loss rate: 1.45%
```
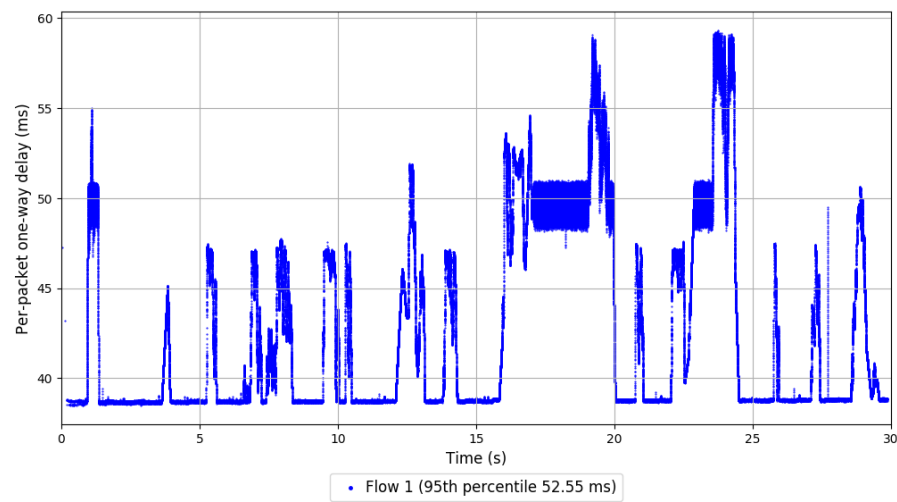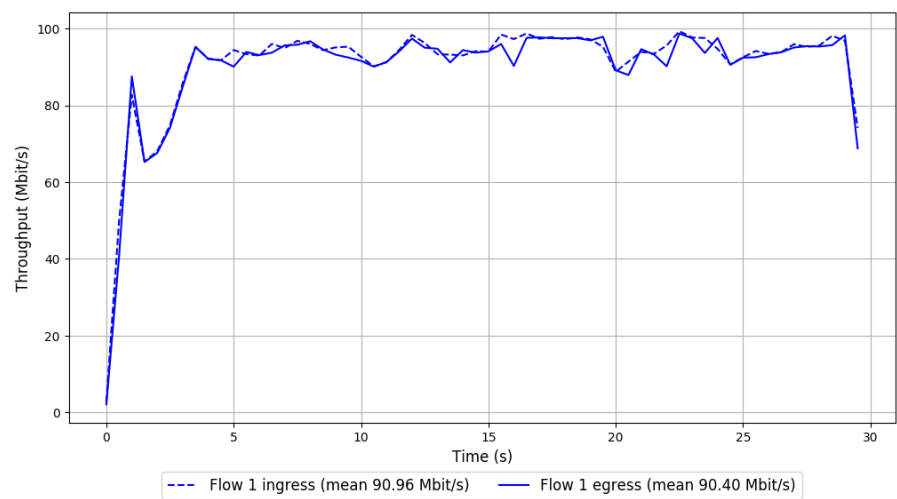
Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 59.27 Mbit/s) ——— Flow 1 egress (mean 58.54 Mbit/s)

• Flow 1 (95th percentile 48.55 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 05:56:16
End at: 2018-04-24 05:56:46
Local clock offset: -8.358 ms
Remote clock offset: -4.073 ms


# Below is generated by plot.py at 2018-04-24 12:57:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.40 Mbit/s
95th percentile per-packet one-way delay: 52.550 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 90.40 Mbit/s
95th percentile per-packet one-way delay: 52.550 ms
Loss rate: 0.88%
```
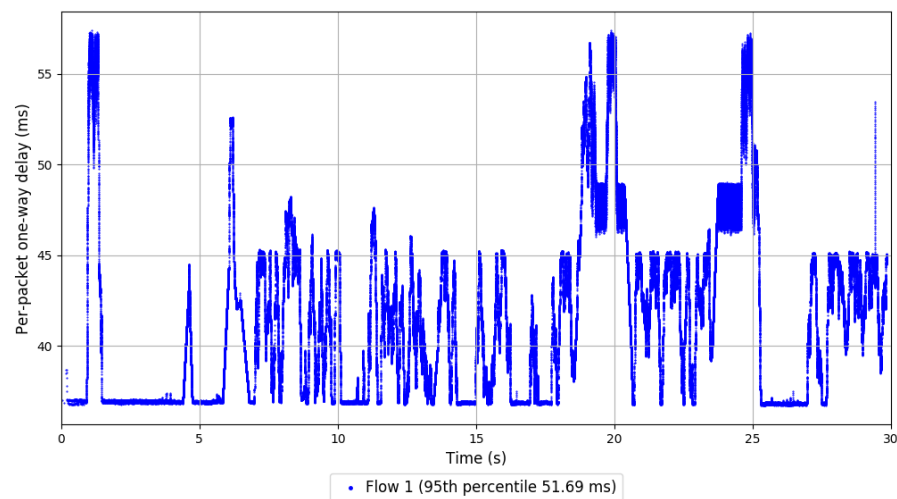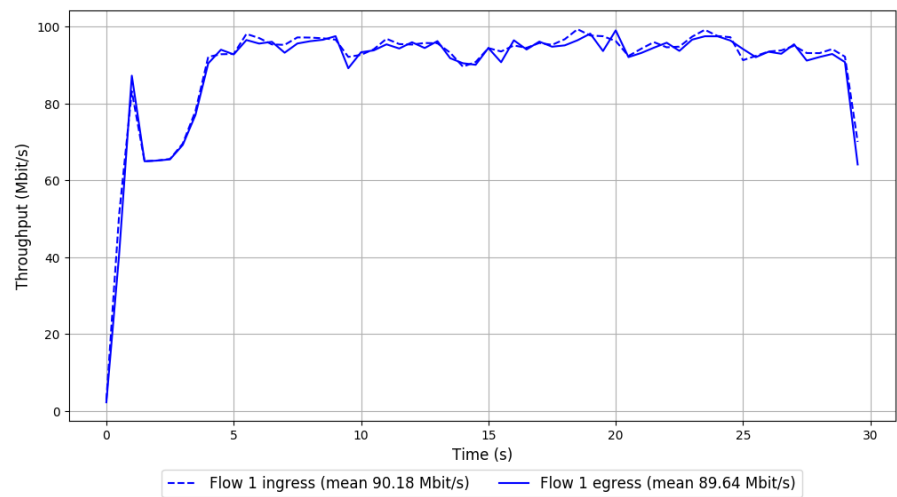
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 90.96 Mbit/s) — Flow 1 egress (mean 90.40 Mbit/s)

• Flow 1 (95th percentile 52.55 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 06:19:11
End at: 2018-04-24 06:19:41
Local clock offset: -7.308 ms
Remote clock offset: 2.88 ms


# Below is generated by plot.py at 2018-04-24 12:57:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 51.685 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 89.64 Mbit/s
95th percentile per-packet one-way delay: 51.685 ms
Loss rate: 0.83%
```
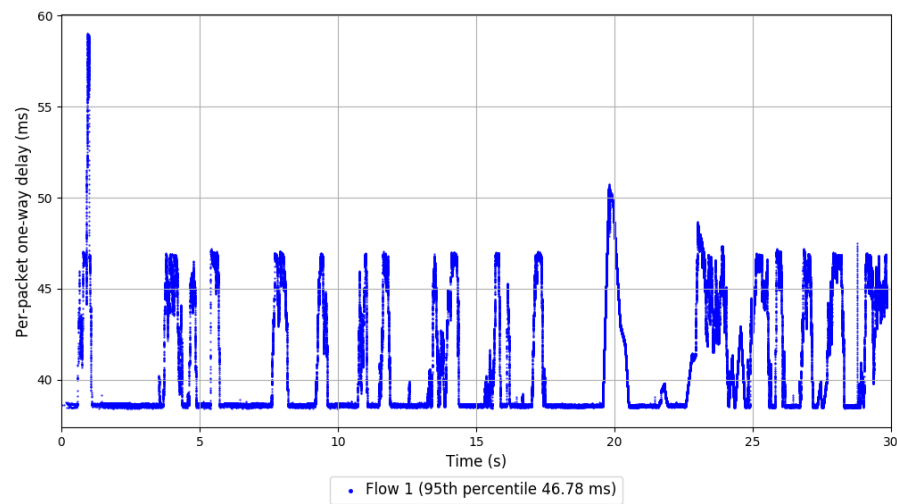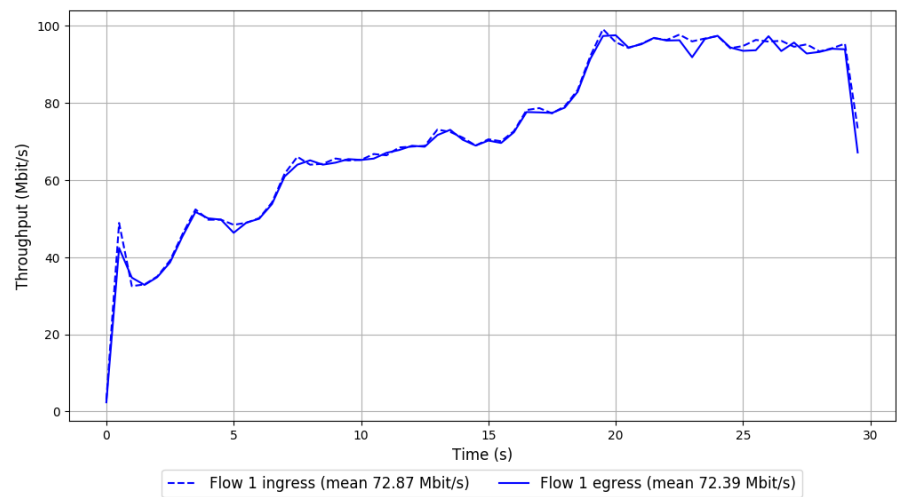
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 90.18 Mbit/s)   Flow 1 egress (mean 89.64 Mbit/s)

Flow 1 (95th percentile 51.69 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 06:41:47
End at: 2018-04-24 06:42:17
Local clock offset: -6.18 ms
Remote clock offset: -0.992 ms


# Below is generated by plot.py at 2018-04-24 12:57:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.39 Mbit/s
95th percentile per-packet one-way delay: 46.779 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 72.39 Mbit/s
95th percentile per-packet one-way delay: 46.779 ms
Loss rate: 0.89%
```
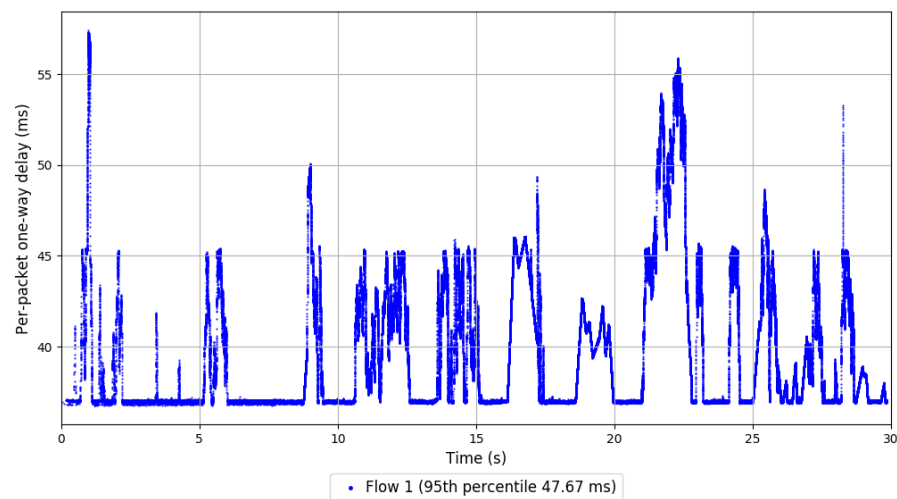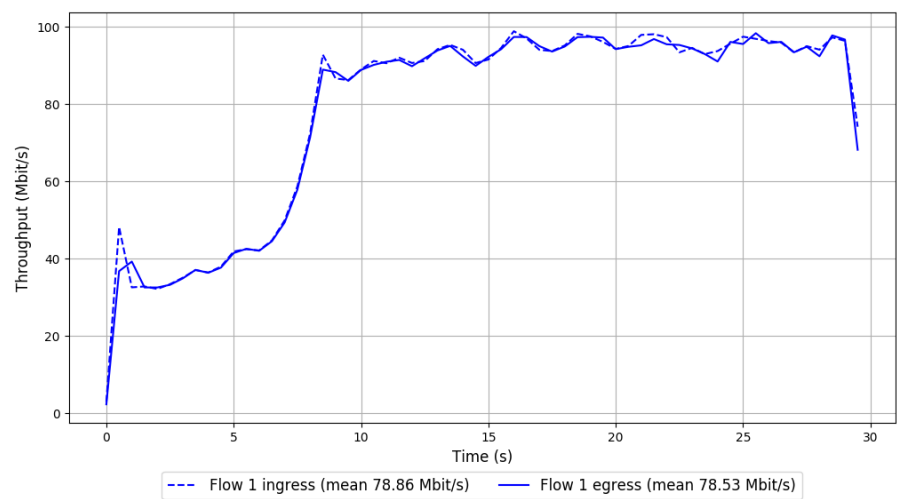
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 72.87 Mbit/s)   Flow 1 egress (mean 72.39 Mbit/s)

• Flow 1 (95th percentile 46.78 ms)

```
Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 07:04:42
End at: 2018-04-24 07:05:12
Local clock offset: -2.338 ms
Remote clock offset: -2.903 ms


# Below is generated by plot.py at 2018-04-24 12:57:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 47.668 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 78.53 Mbit/s
95th percentile per-packet one-way delay: 47.668 ms
Loss rate: 0.64%
```
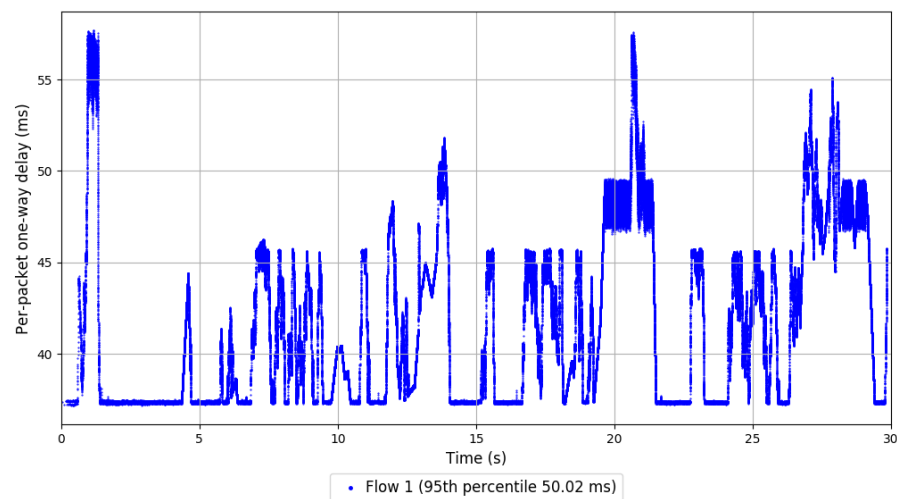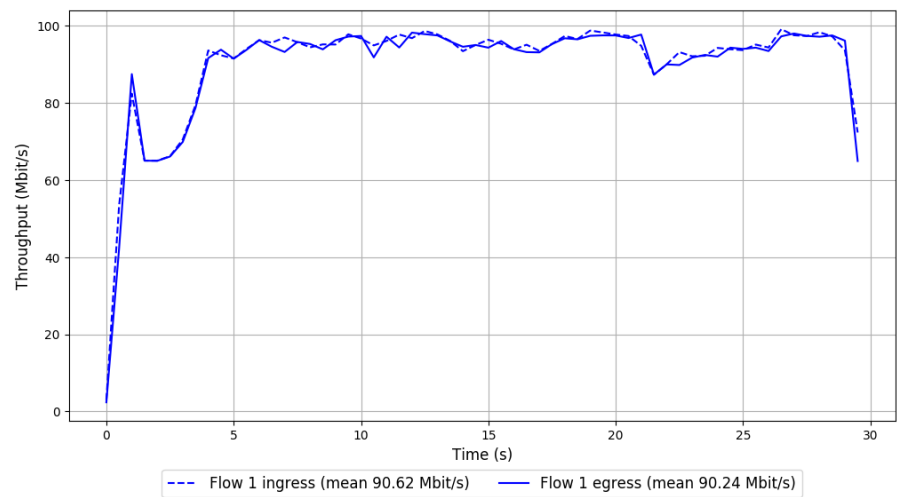
Run 6: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 78.86 Mbit/s)   Flow 1 egress (mean 78.53 Mbit/s)

• Flow 1 (95th percentile 47.67 ms)

```
Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 07:27:57
End at: 2018-04-24 07:28:27
Local clock offset: -1.241 ms
Remote clock offset: -1.656 ms


# Below is generated by plot.py at 2018-04-24 12:58:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 50.016 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 50.016 ms
Loss rate: 0.65%
```
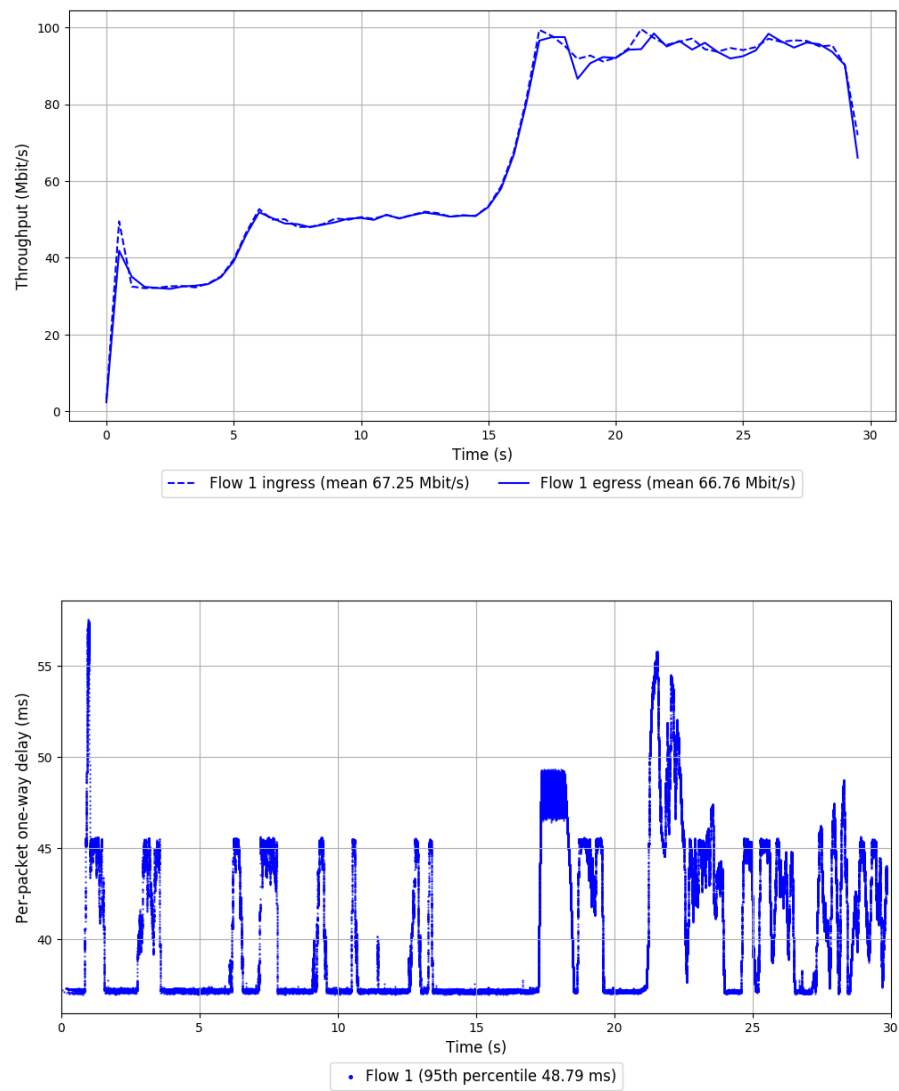
Run 7: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 90.62 Mbit/s) --- Flow 1 egress (mean 90.24 Mbit/s)

Flow 1 (95th percentile 50.02 ms)

```
Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 07:51:04
End at: 2018-04-24 07:51:34
Local clock offset: -0.848 ms
Remote clock offset: -1.23 ms
```

Run 8: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 22.74 Mbit/s)   —— Flow 1 egress (mean 85.66 Mbit/s)

• Flow 1 (95th percentile 51.23 ms)

```
Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 08:17:08
End at: 2018-04-24 08:17:38
Local clock offset: -0.286 ms
Remote clock offset: -0.988 ms


# Below is generated by plot.py at 2018-04-24 12:58:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.76 Mbit/s
95th percentile per-packet one-way delay: 48.789 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 66.76 Mbit/s
95th percentile per-packet one-way delay: 48.789 ms
Loss rate: 0.95%
```
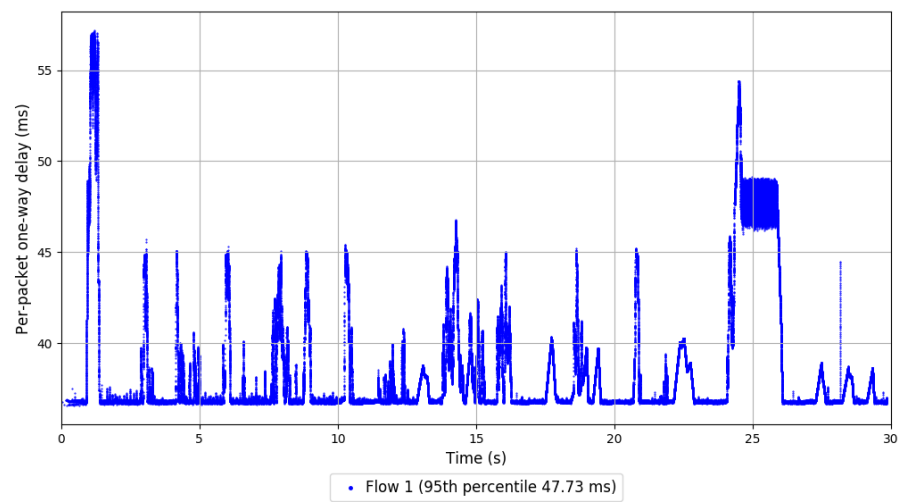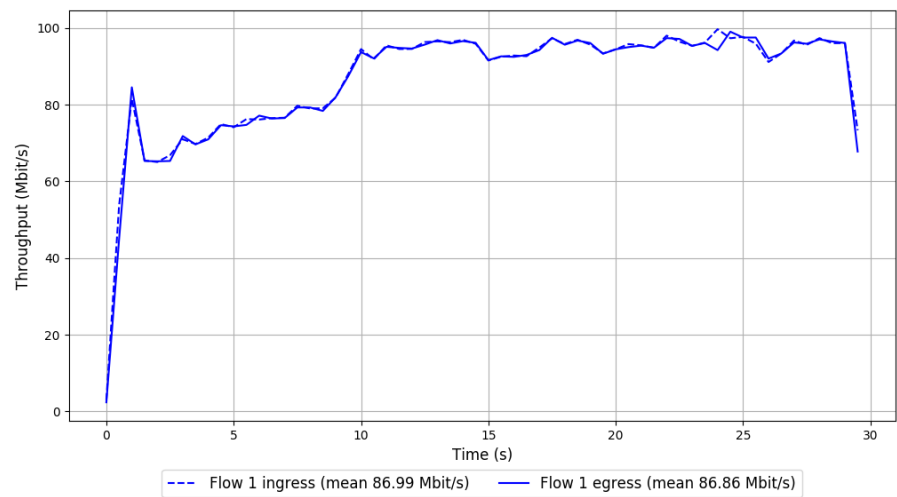
Run 9: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 67.25 Mbit/s) --- Flow 1 egress (mean 66.76 Mbit/s)

Flow 1 (95th percentile 48.79 ms)

```
Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 08:40:24
End at: 2018-04-24 08:40:54
Local clock offset: -0.389 ms
Remote clock offset: -2.005 ms


# Below is generated by plot.py at 2018-04-24 12:58:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.86 Mbit/s
95th percentile per-packet one-way delay: 47.729 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 86.86 Mbit/s
95th percentile per-packet one-way delay: 47.729 ms
Loss rate: 0.37%
```
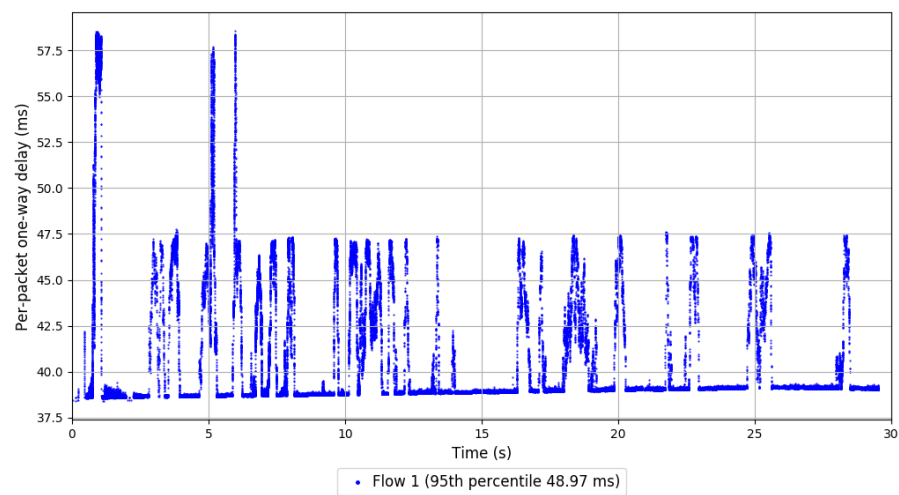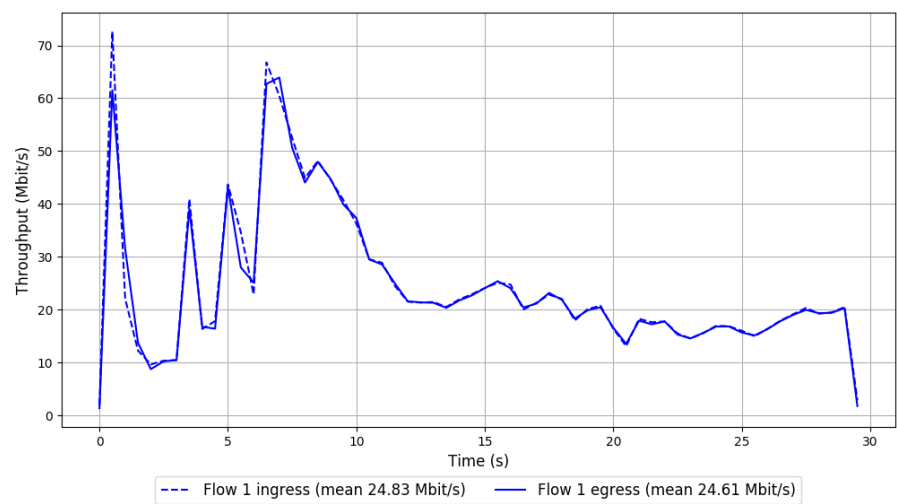
Run 10: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 86.99 Mbit/s)   Flow 1 egress (mean 86.86 Mbit/s)
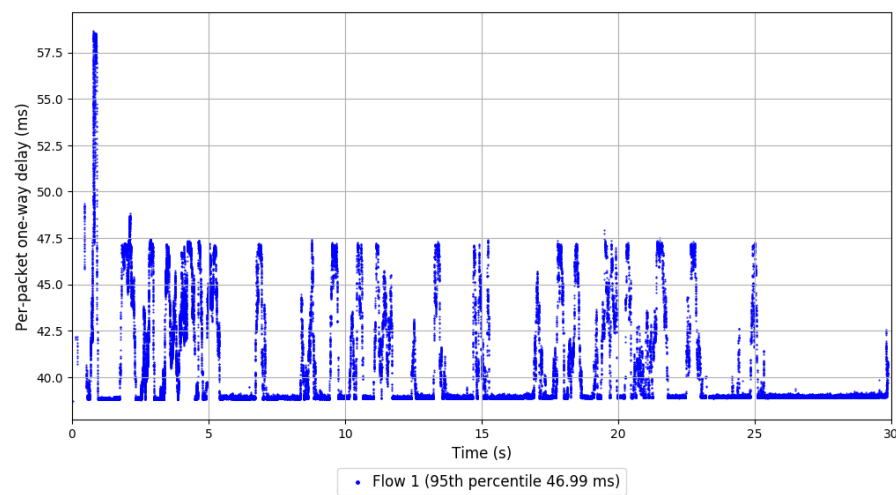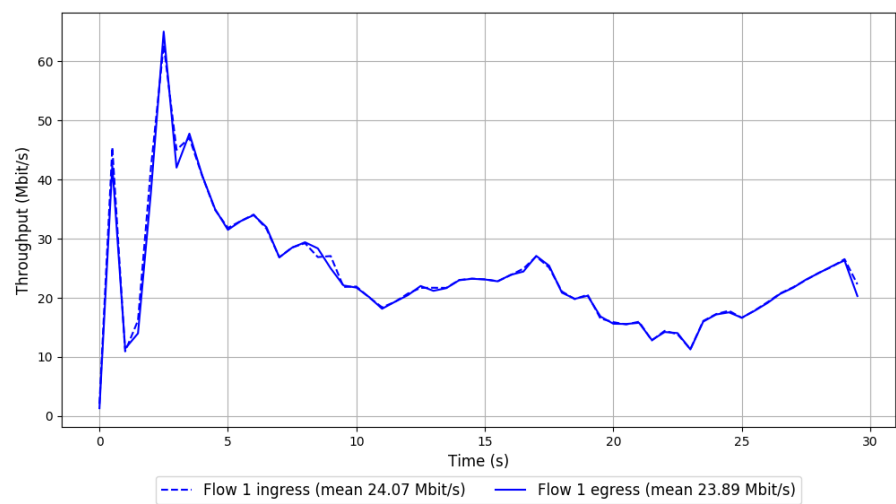

• Flow 1 (95th percentile 47.73 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 05:07:04
End at: 2018-04-24 05:07:34
Local clock offset: -2.262 ms
Remote clock offset: -1.386 ms


# Below is generated by plot.py at 2018-04-24 12:58:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 48.969 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 24.61 Mbit/s
95th percentile per-packet one-way delay: 48.969 ms
Loss rate: 1.09%
```

Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 05:31:15
End at: 2018-04-24 05:31:45
Local clock offset: -6.315 ms
Remote clock offset: -2.567 ms


# Below is generated by plot.py at 2018-04-24 12:58:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 46.993 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 23.89 Mbit/s
95th percentile per-packet one-way delay: 46.993 ms
Loss rate: 0.98%
```
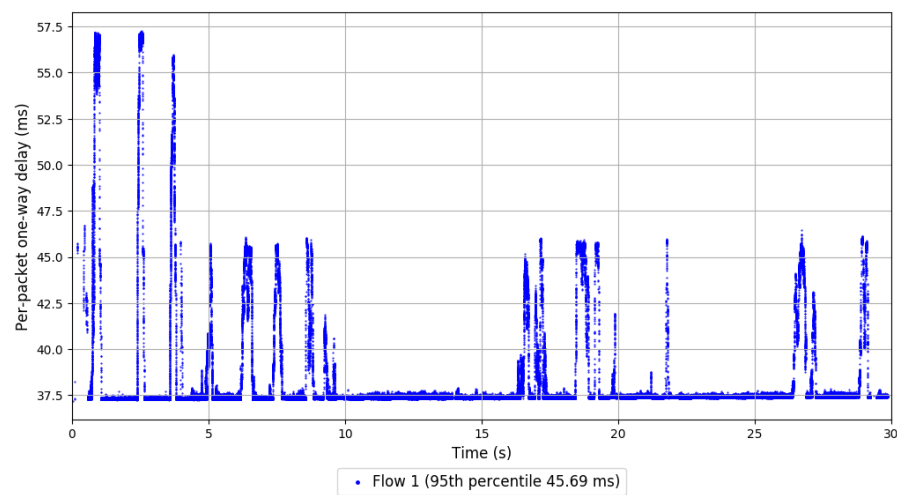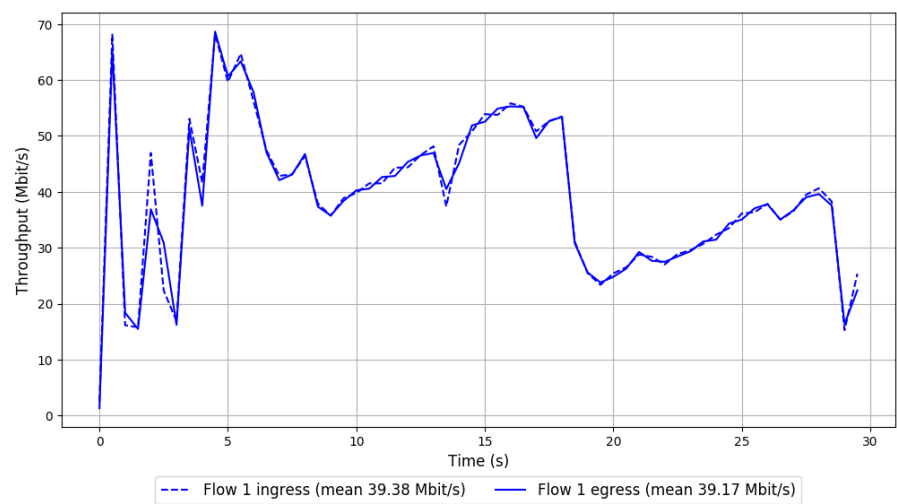
Run 2: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 24.07 Mbit/s) ----- Flow 1 egress (mean 23.89 Mbit/s)

Flow 1 (95th percentile 46.99 ms)

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 05:54:56
End at: 2018-04-24 05:55:26
Local clock offset: -8.025 ms
Remote clock offset: -4.023 ms


# Below is generated by plot.py at 2018-04-24 12:58:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.17 Mbit/s
95th percentile per-packet one-way delay: 45.689 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 39.17 Mbit/s
95th percentile per-packet one-way delay: 45.689 ms
Loss rate: 0.75%
```
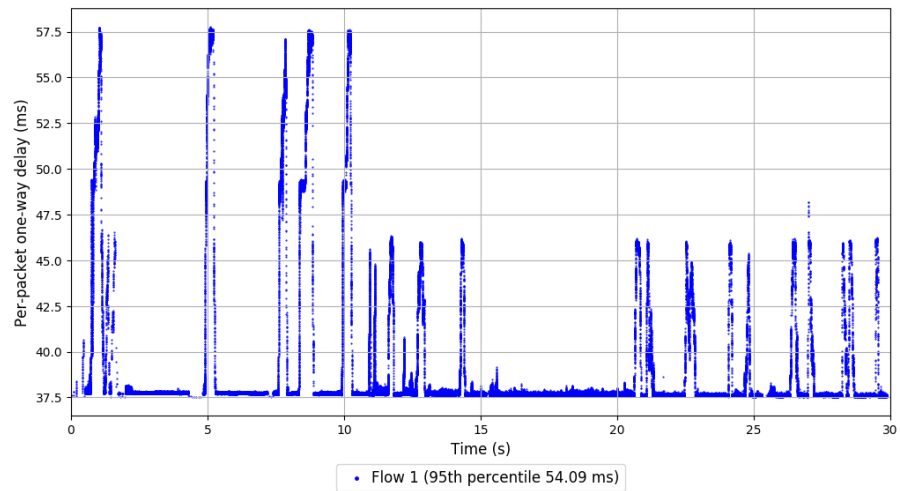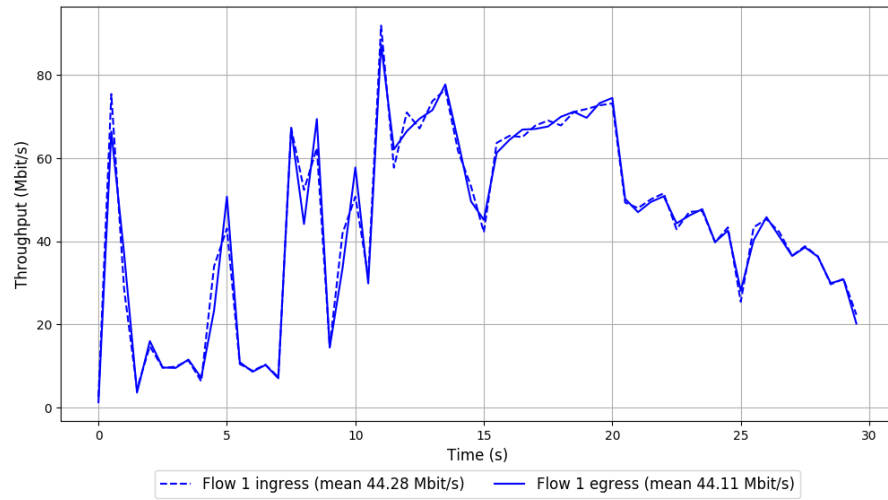
Run 3: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 39.38 Mbit/s) — Flow 1 egress (mean 39.17 Mbit/s)

Flow 1 (95th percentile 45.69 ms)

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 06:17:46
End at: 2018-04-24 06:18:16
Local clock offset: -8.16 ms
Remote clock offset: 3.1 ms


# Below is generated by plot.py at 2018-04-24 12:58:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.11 Mbit/s
95th percentile per-packet one-way delay: 54.087 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 44.11 Mbit/s
95th percentile per-packet one-way delay: 54.087 ms
Loss rate: 0.62%
```
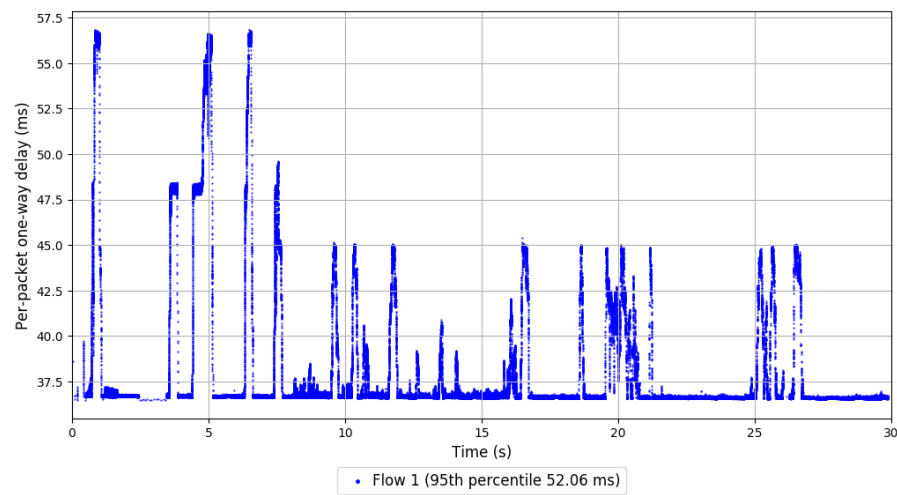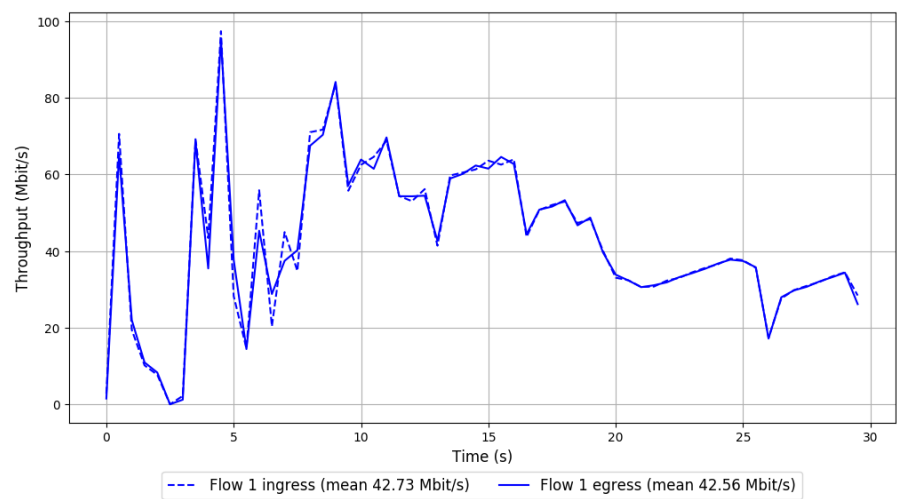
Run 4: Report of QUIC Cubic — Data Link

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 06:40:28
End at: 2018-04-24 06:40:58
Local clock offset: -6.104 ms
Remote clock offset: -0.064 ms


# Below is generated by plot.py at 2018-04-24 12:58:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.56 Mbit/s
95th percentile per-packet one-way delay: 52.058 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 42.56 Mbit/s
95th percentile per-packet one-way delay: 52.058 ms
Loss rate: 0.62%
```
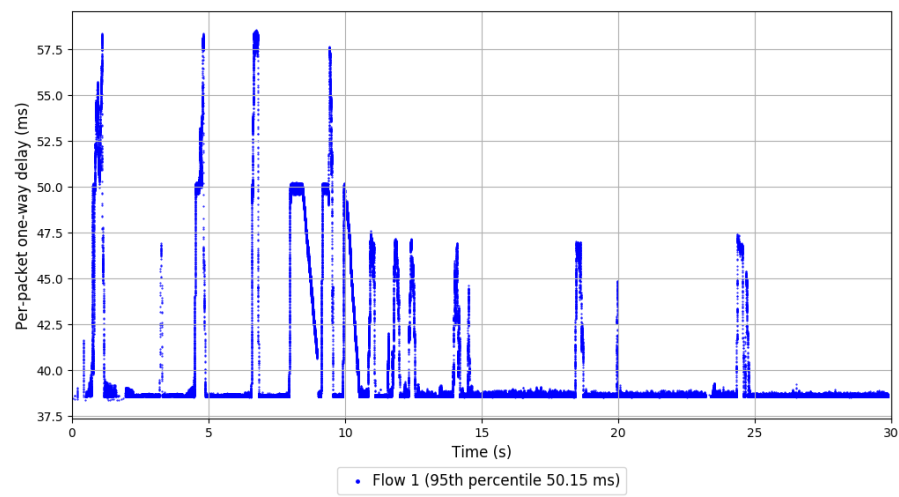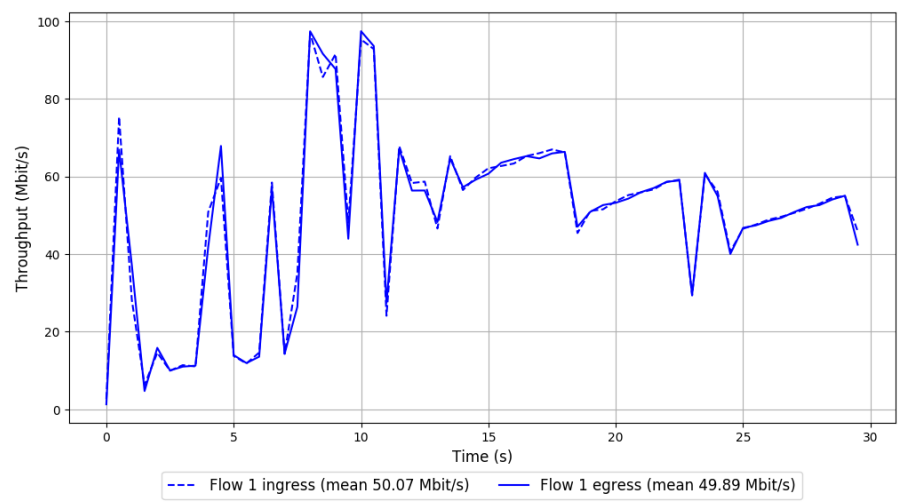
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 42.73 Mbit/s) ----   Flow 1 egress (mean 42.56 Mbit/s) ——

Flow 1 (95th percentile 52.06 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 07:03:22
End at: 2018-04-24 07:03:52
Local clock offset: -2.356 ms
Remote clock offset: -3.026 ms


# Below is generated by plot.py at 2018-04-24 12:59:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.89 Mbit/s
95th percentile per-packet one-way delay: 50.145 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 49.89 Mbit/s
95th percentile per-packet one-way delay: 50.145 ms
Loss rate: 0.59%
```
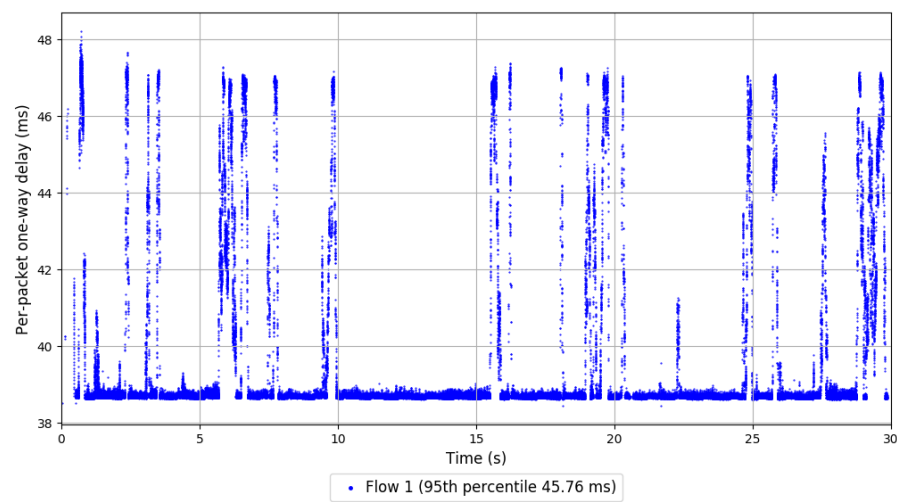
Run 6: Report of QUIC Cubic — Data Link

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 07:26:38
End at: 2018-04-24 07:27:08
Local clock offset: -1.436 ms
Remote clock offset: -1.734 ms


# Below is generated by plot.py at 2018-04-24 12:59:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 45.757 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 26.30 Mbit/s
95th percentile per-packet one-way delay: 45.757 ms
Loss rate: 0.62%
```
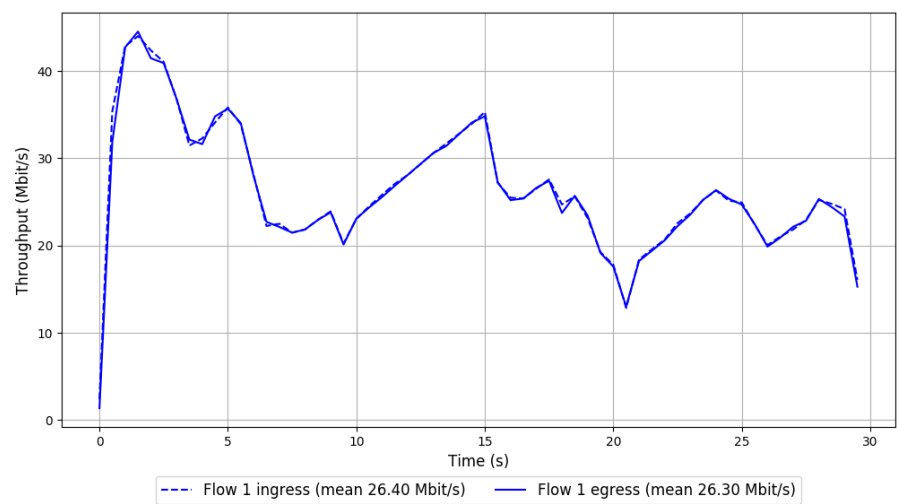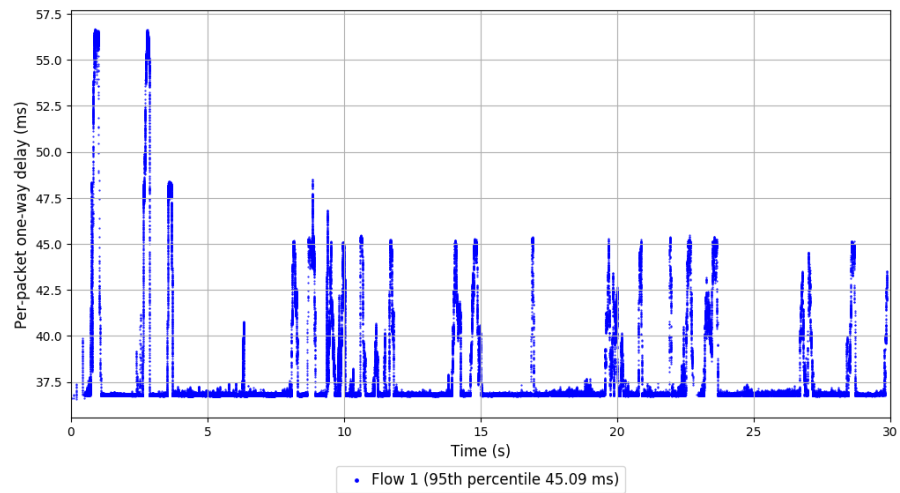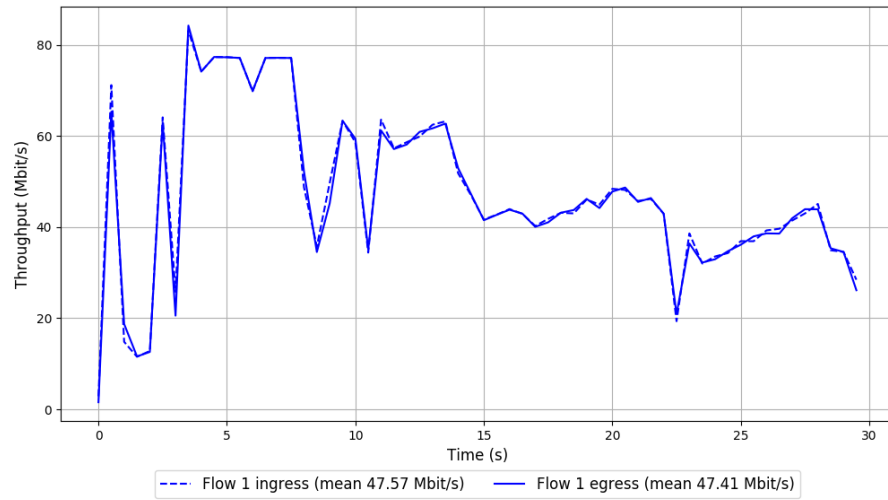
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 26.40 Mbit/s) — — — Flow 1 egress (mean 26.30 Mbit/s)

• Flow 1 (95th percentile 45.76 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 07:49:42
End at: 2018-04-24 07:50:12
Local clock offset: -0.575 ms
Remote clock offset: -0.697 ms


# Below is generated by plot.py at 2018-04-24 12:59:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.41 Mbit/s
95th percentile per-packet one-way delay: 45.095 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 47.41 Mbit/s
95th percentile per-packet one-way delay: 45.095 ms
Loss rate: 0.57%
```
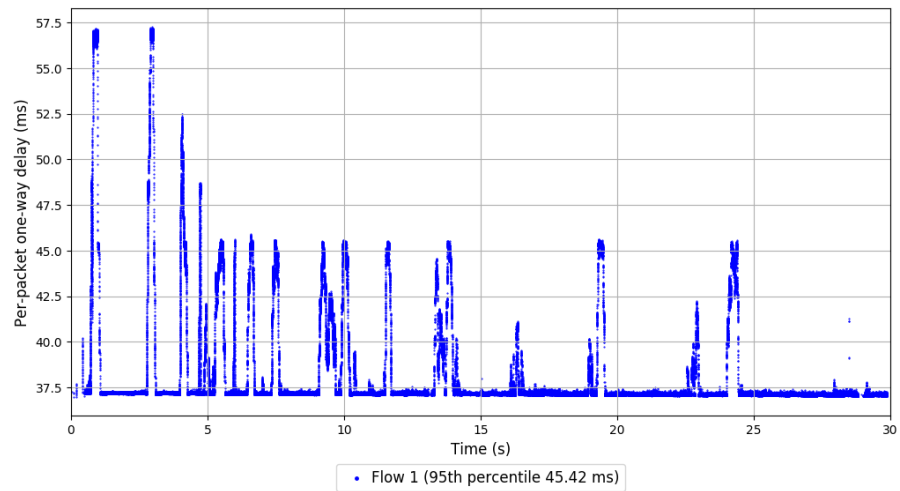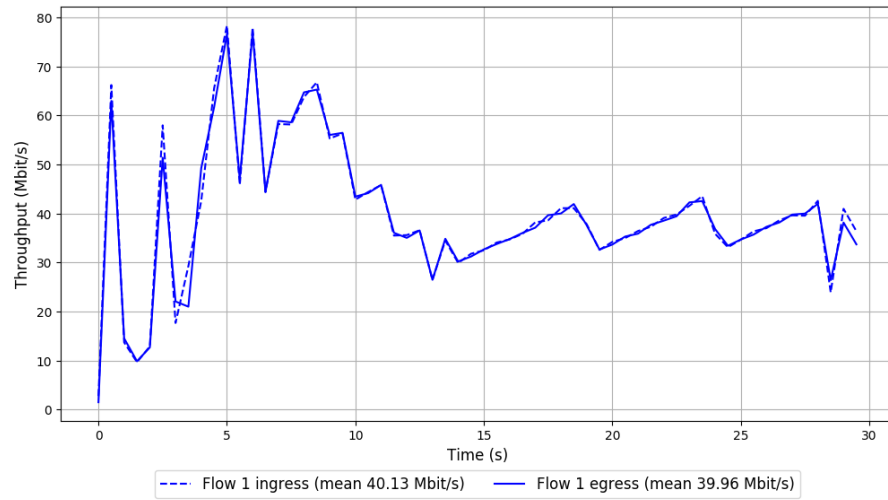
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 47.57 Mbit/s) --- Flow 1 egress (mean 47.41 Mbit/s)

Flow 1 (95th percentile 45.09 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 08:15:43
End at: 2018-04-24 08:16:14
Local clock offset: -0.437 ms
Remote clock offset: -0.677 ms


# Below is generated by plot.py at 2018-04-24 12:59:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.96 Mbit/s
95th percentile per-packet one-way delay: 45.424 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 39.96 Mbit/s
95th percentile per-packet one-way delay: 45.424 ms
Loss rate: 0.65%
```
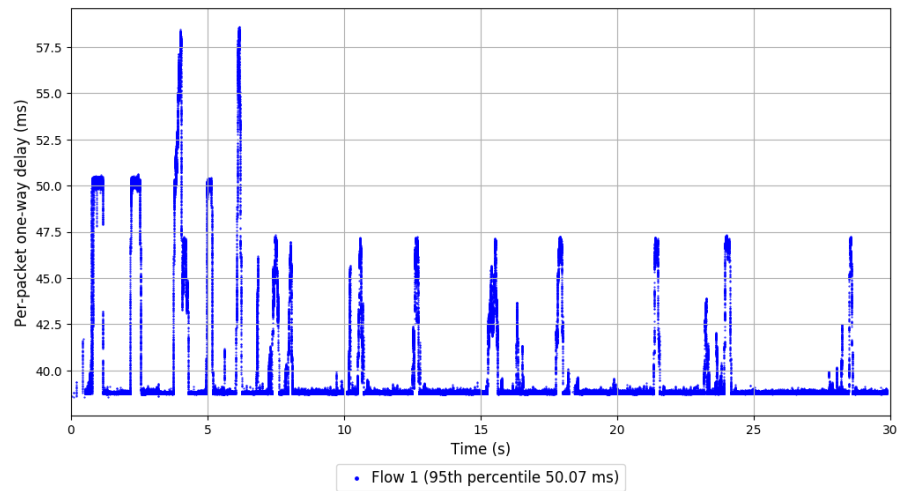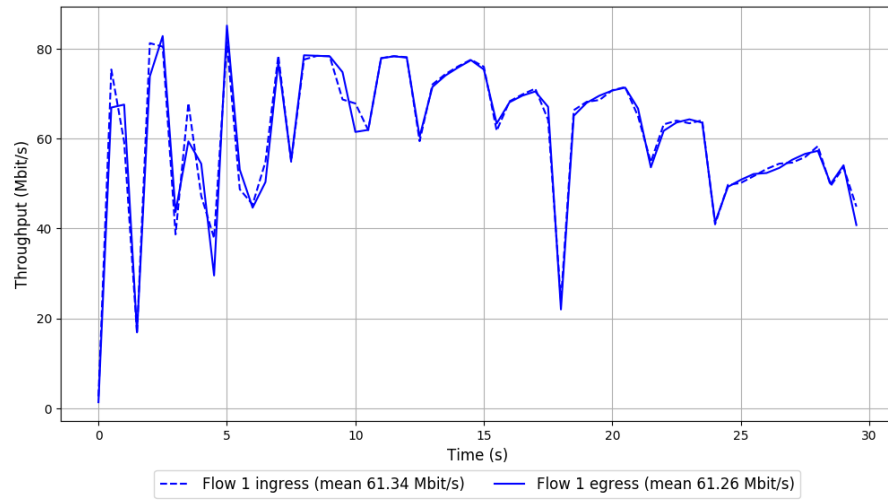
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 40.13 Mbit/s) --- Flow 1 egress (mean 39.96 Mbit/s)

Flow 1 (95th percentile 45.42 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 08:39:04
End at: 2018-04-24 08:39:34
Local clock offset: -0.298 ms
Remote clock offset: -2.455 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.26 Mbit/s
95th percentile per-packet one-way delay: 50.068 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 61.26 Mbit/s
95th percentile per-packet one-way delay: 50.068 ms
Loss rate: 0.36%
```
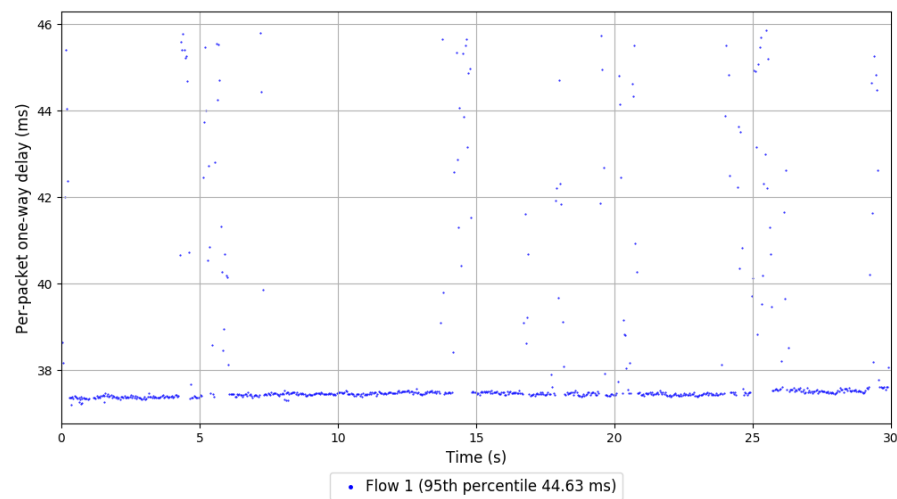
Run 10: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 05:15:41
End at: 2018-04-24 05:16:11
Local clock offset: -3.954 ms
Remote clock offset: -1.0 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 44.628 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 44.628 ms
Loss rate: 0.49%
```
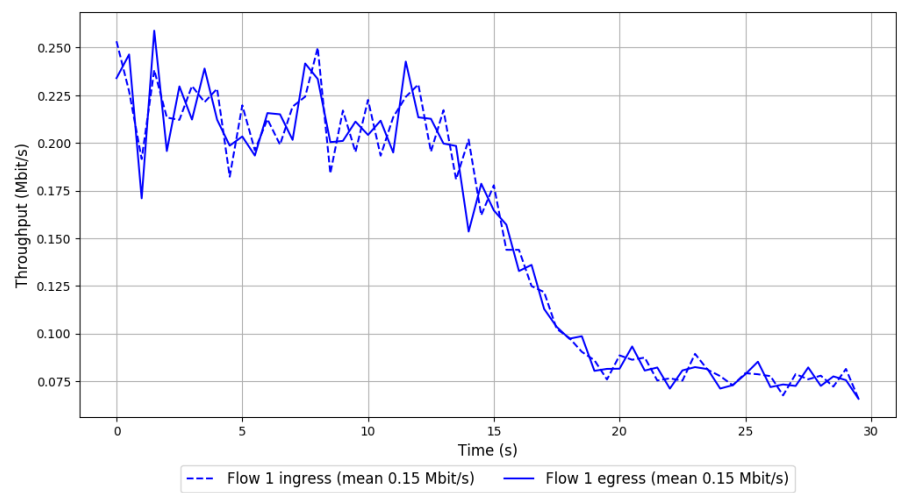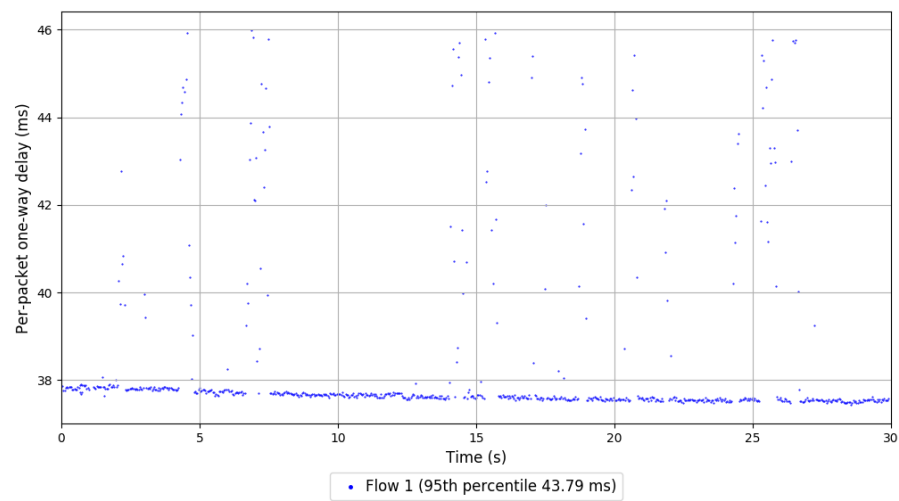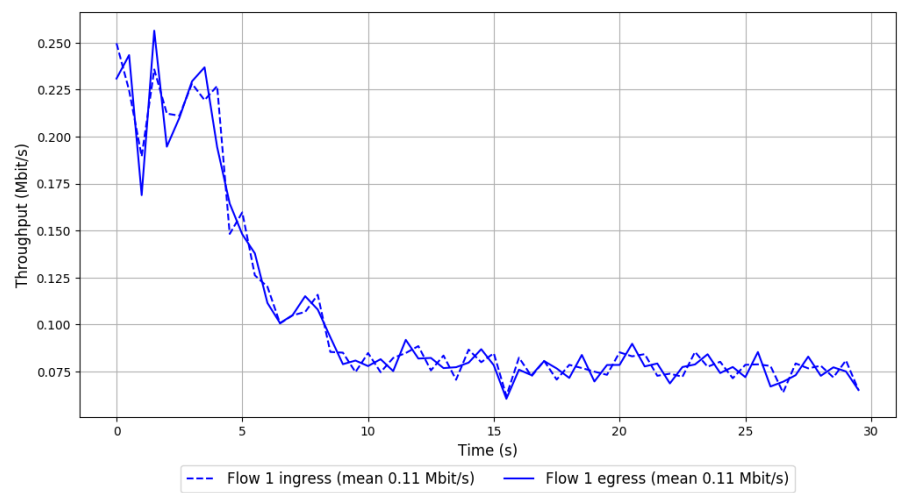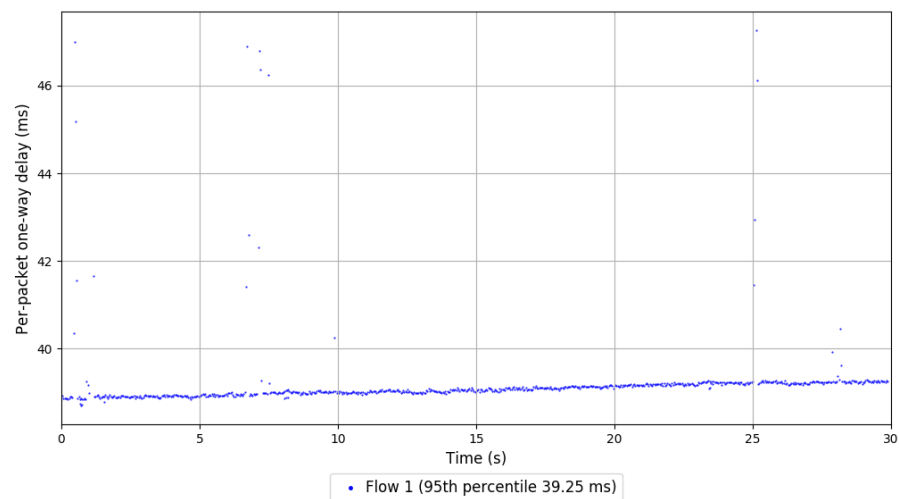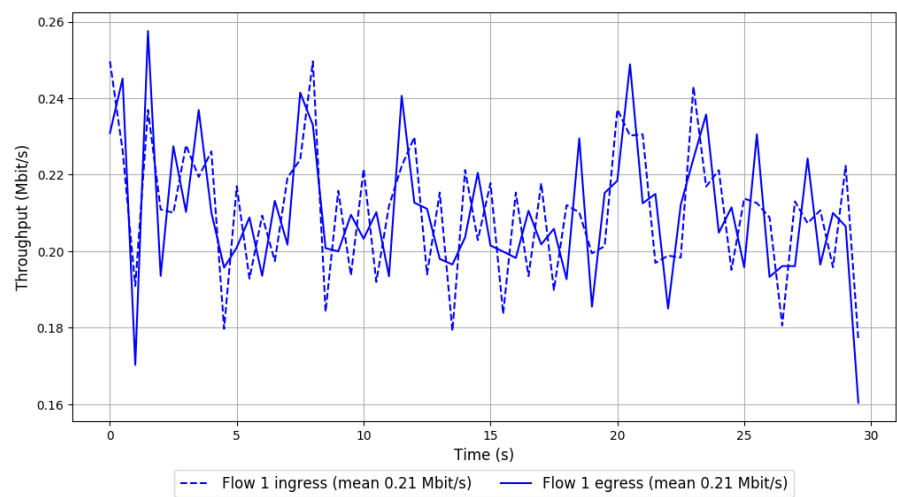
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2018-04-24 05:39:31
End at: 2018-04-24 05:40:01
Local clock offset: -8.514 ms
Remote clock offset: -3.188 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 43.787 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 43.787 ms
Loss rate: 0.56%
```

Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2018-04-24 06:03:05
End at: 2018-04-24 06:03:35
Local clock offset: -10.404 ms
Remote clock offset: -1.312 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.253 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.253 ms
Loss rate: 0.26%
```
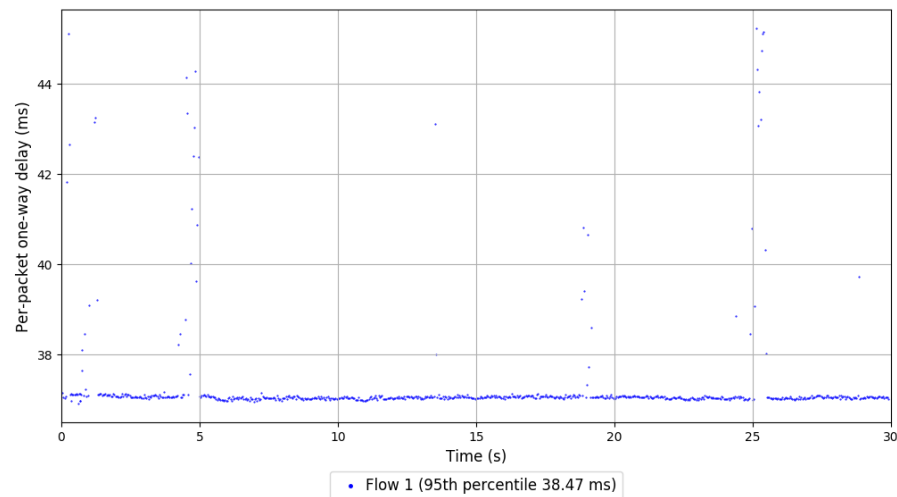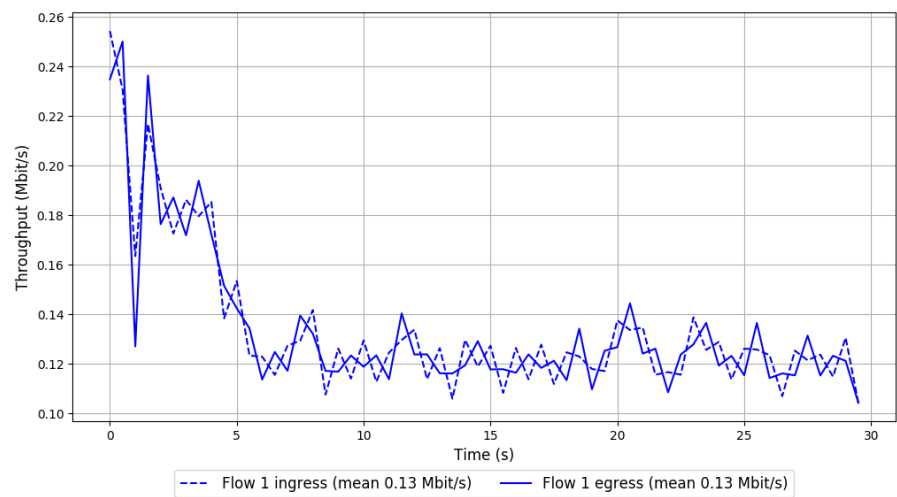
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2018-04-24 06:25:50
End at: 2018-04-24 06:26:20
Local clock offset: -5.469 ms
Remote clock offset: 3.753 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 38.466 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 38.466 ms
Loss rate: 0.32%
```

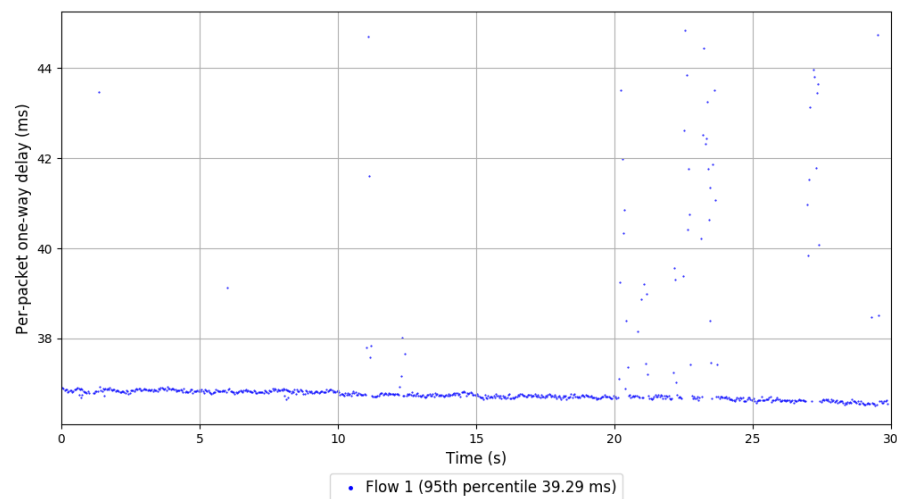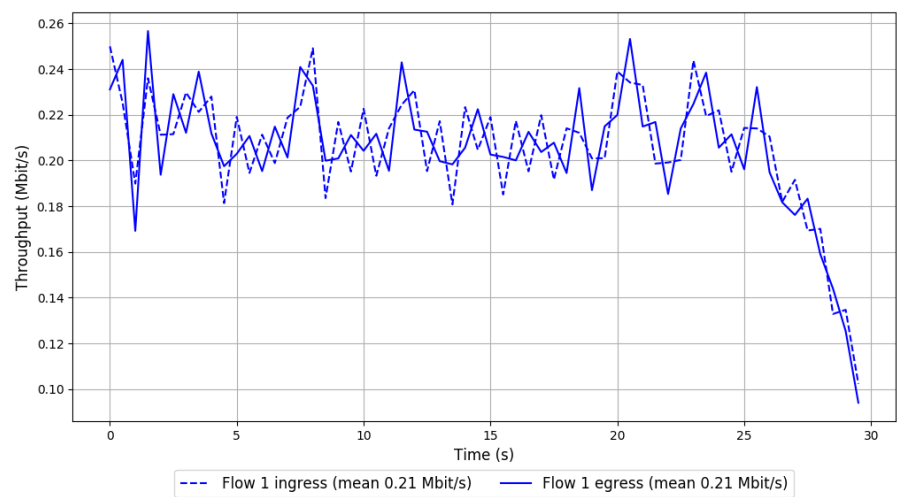Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2018-04-24 06:48:29
End at: 2018-04-24 06:48:59
Local clock offset: -5.367 ms
Remote clock offset: -2.377 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.293 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 39.293 ms
Loss rate: 0.28%
```

Run 5: Report of SCReAM — Data Link

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

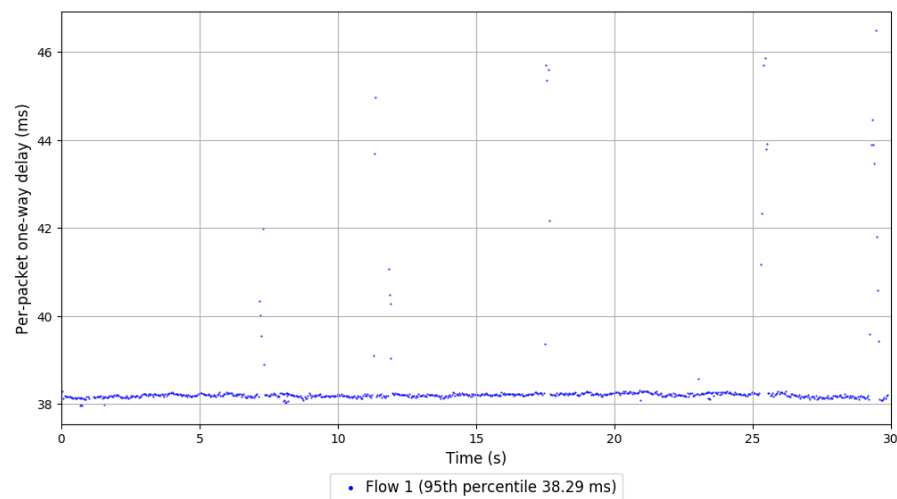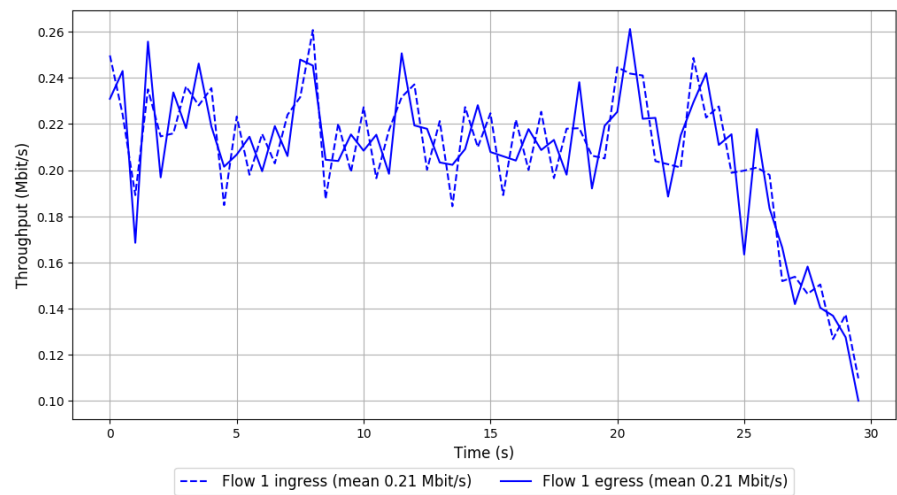Flow 1 (95th percentile 39.29 ms)

```
Run 6: Statistics of SCReAM

Start at: 2018-04-24 07:11:23
End at: 2018-04-24 07:11:53
Local clock offset: -2.48 ms
Remote clock offset: -2.212 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.290 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 38.290 ms
Loss rate: 0.32%
```

Run 6: Report of SCReAM — Data Link

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

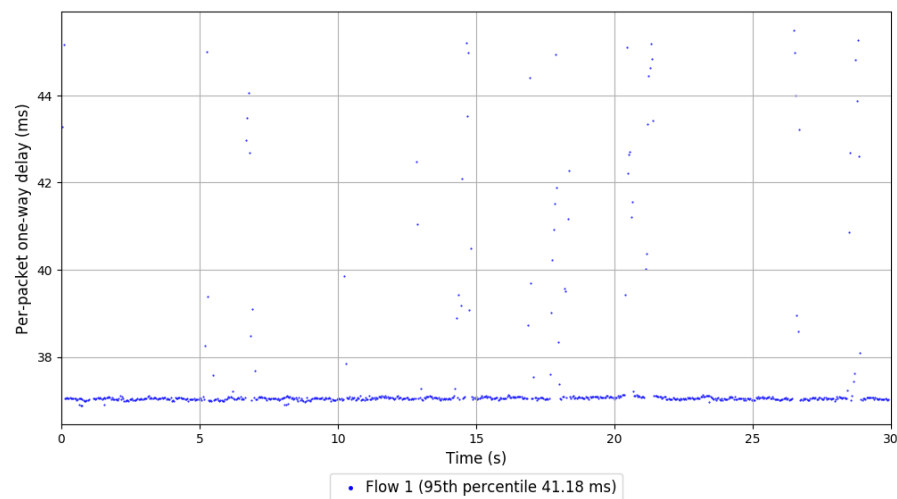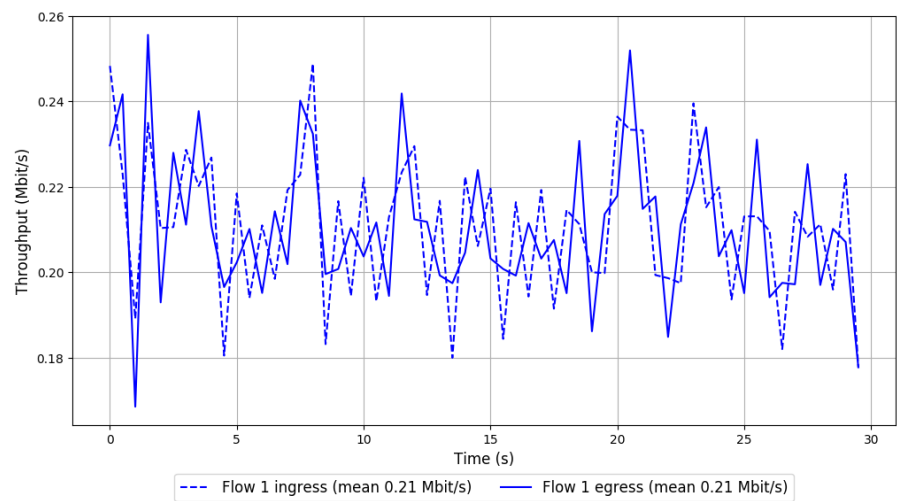
Flow 1 (95th percentile 38.29 ms)

```
Run 7: Statistics of SCReAM

Start at: 2018-04-24 07:34:56
End at: 2018-04-24 07:35:26
Local clock offset: -1.023 ms
Remote clock offset: -1.188 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.176 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.176 ms
Loss rate: 0.13%
```

Run 7: Report of SCReAM — Data Link

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

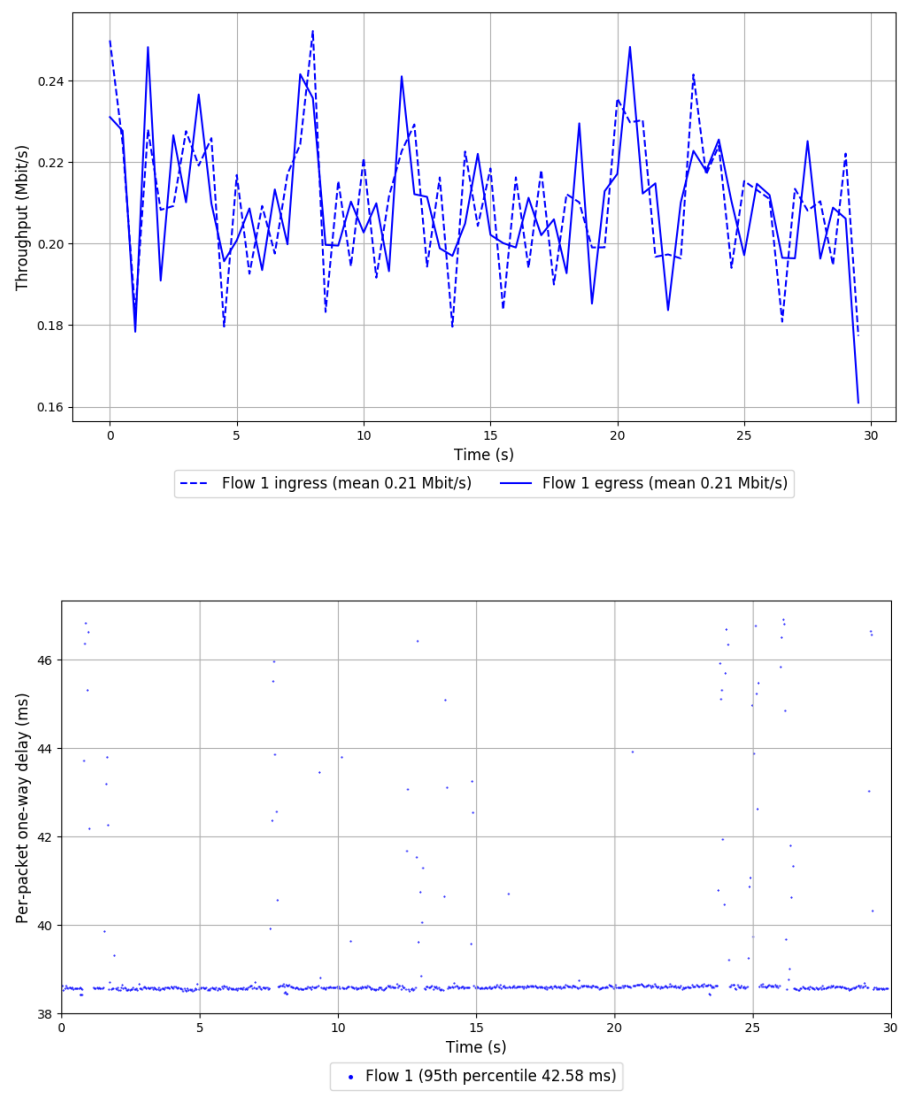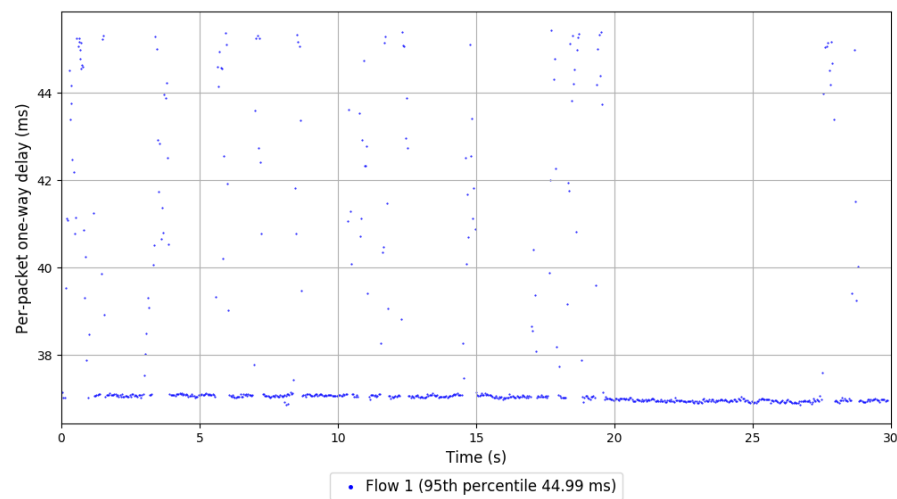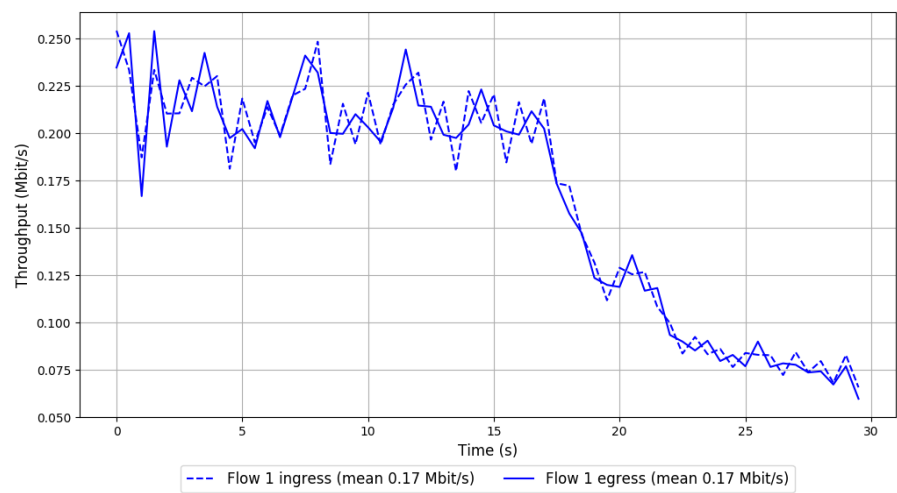Flow 1 (95th percentile 41.18 ms)

```
Run 8: Statistics of SCReAM

Start at: 2018-04-24 08:00:27
End at: 2018-04-24 08:00:57
Local clock offset: -0.487 ms
Remote clock offset: -1.119 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 42.578 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 42.578 ms
Loss rate: 0.26%
```

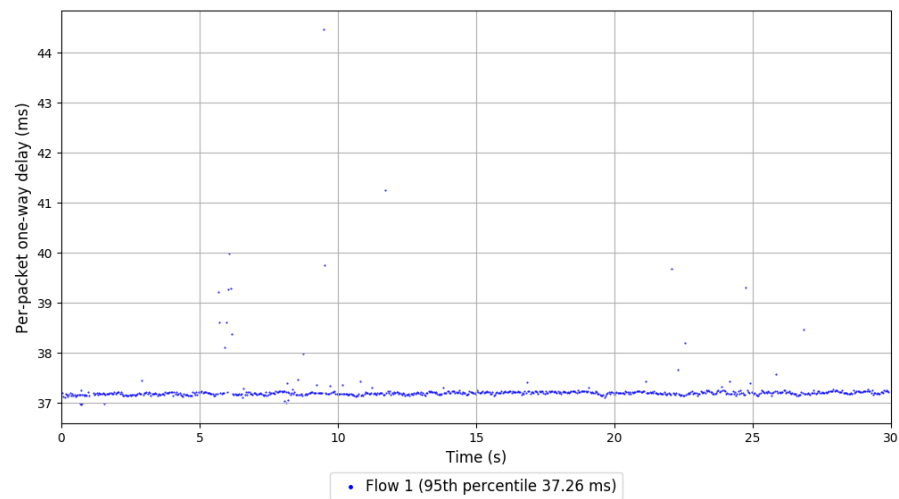## Run 8: Report of SCReAM — Data Link

```
Run 9: Statistics of SCReAM

Start at: 2018-04-24 08:24:09
End at: 2018-04-24 08:24:39
Local clock offset: -0.639 ms
Remote clock offset: -2.074 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 44.987 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 44.987 ms
Loss rate: 0.55%
```

Run 9: Report of SCReAM — Data Link

Flow 1 ingress (mean 0.17 Mbit/s) --- Flow 1 egress (mean 0.17 Mbit/s)
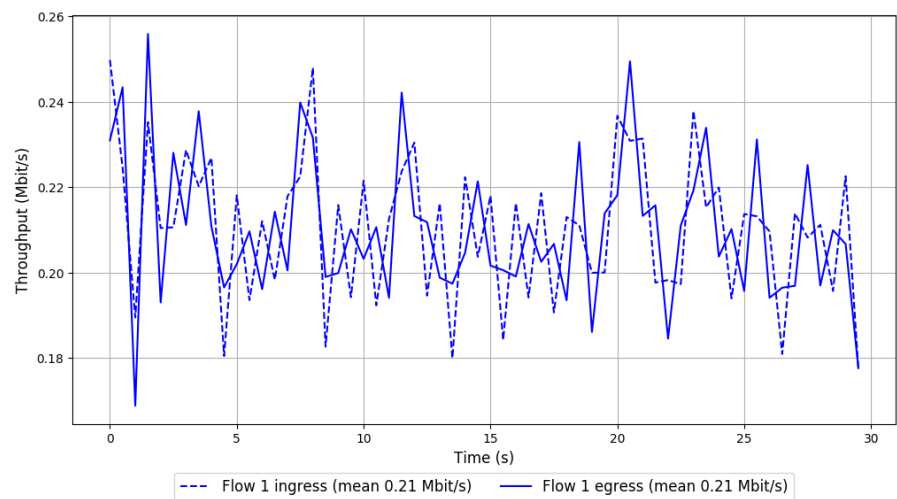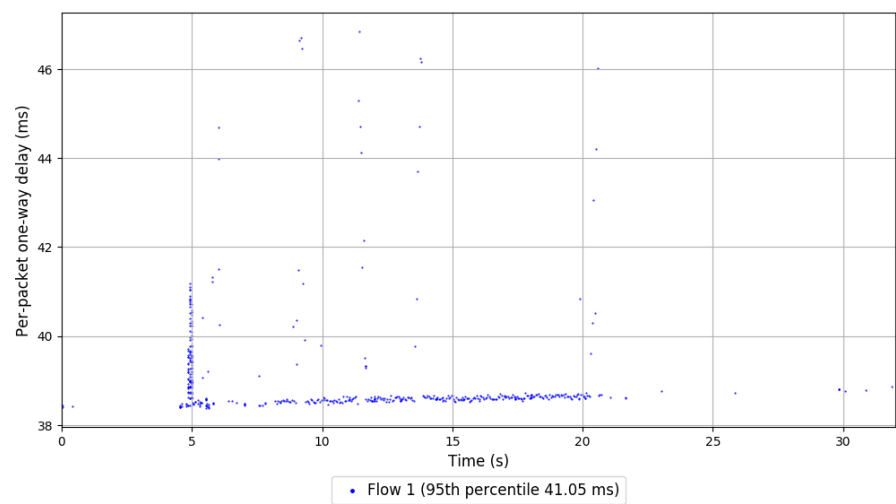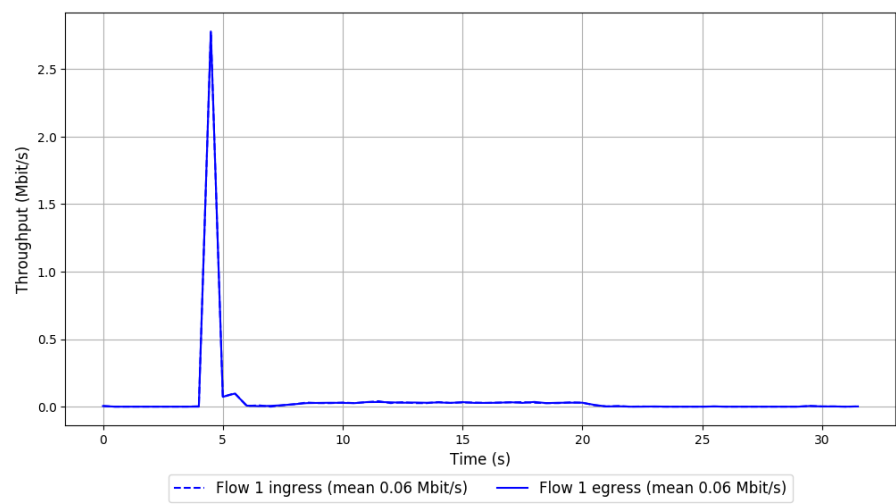

Flow 1 (95th percentile 44.99 ms)

```
Run 10: Statistics of SCReAM

Start at: 2018-04-24 08:47:27
End at: 2018-04-24 08:47:57
Local clock offset: -0.453 ms
Remote clock offset: -2.301 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 37.257 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 37.257 ms
Loss rate: 0.13%
```
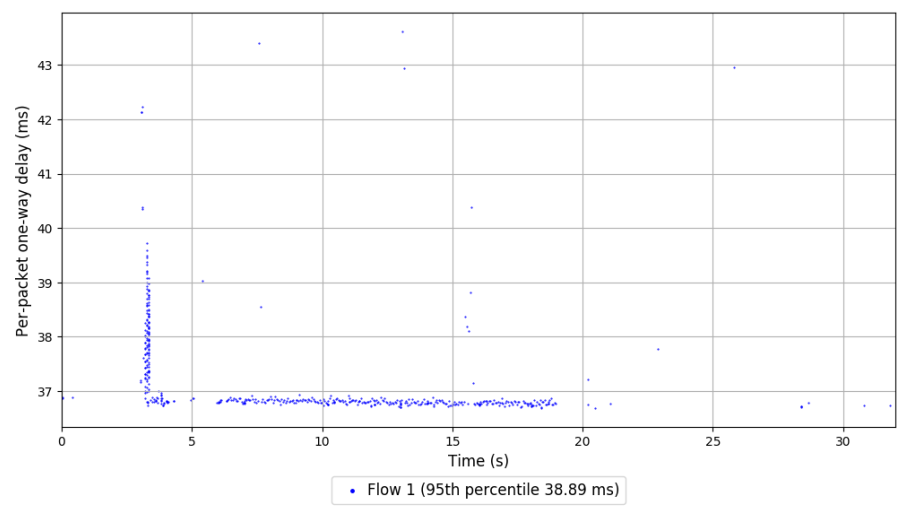
Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 05:18:34
End at: 2018-04-24 05:19:04
Local clock offset: -5.334 ms
Remote clock offset: -0.393 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 41.047 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 41.047 ms
Loss rate: 0.04%
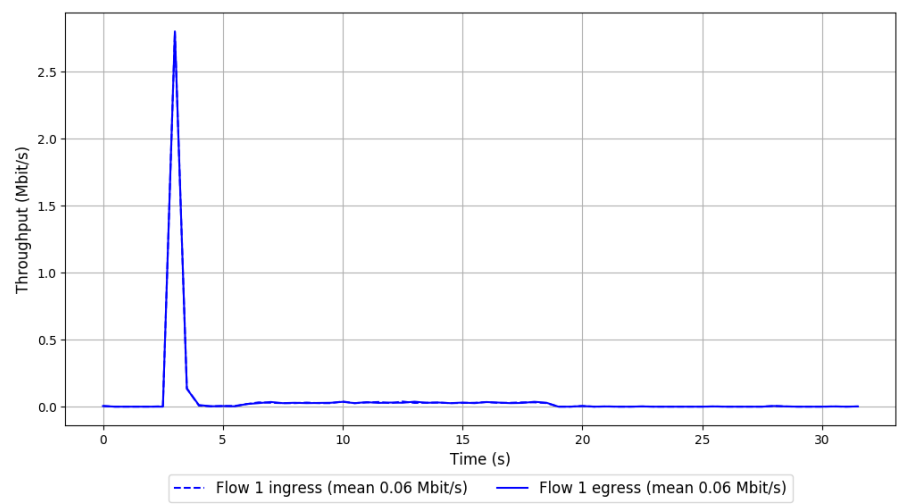```

Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-04-24 05:42:23
End at: 2018-04-24 05:42:53
Local clock offset: -7.517 ms
Remote clock offset: -3.797 ms

Below is generated by plot.py at 2018-04-24 12:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 38.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 38.886 ms
Loss rate: 0.00%
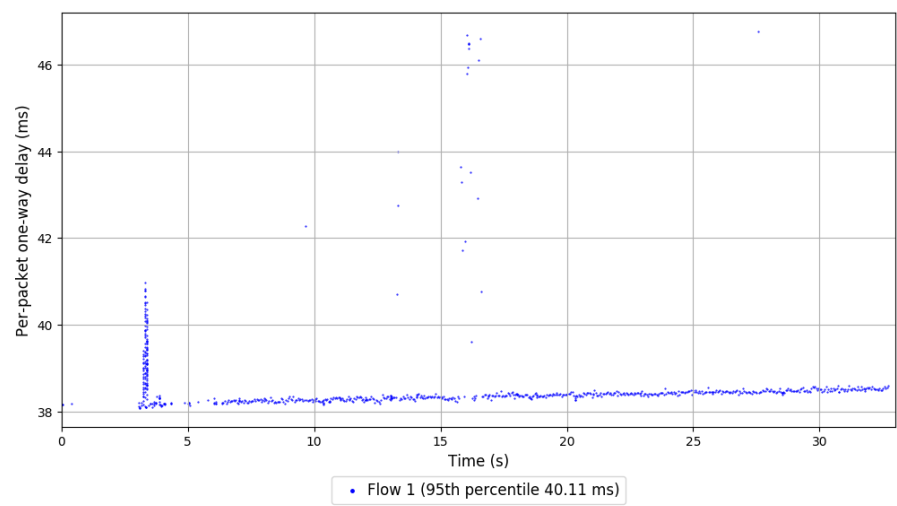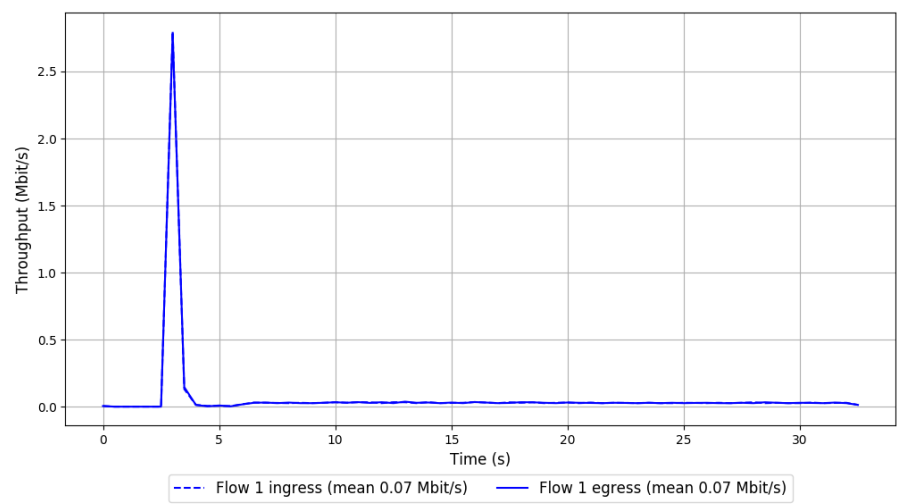```

Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-04-24 06:05:45
End at: 2018-04-24 06:06:15
Local clock offset: -11.425 ms
Remote clock offset: 0.234 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.112 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 40.112 ms
Loss rate: 0.06%
```

Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-04-24 06:28:29
End at: 2018-04-24 06:28:59
Local clock offset: -5.244 ms
Remote clock offset: 4.061 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 38.958 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 38.958 ms
Loss rate: 0.00%
```
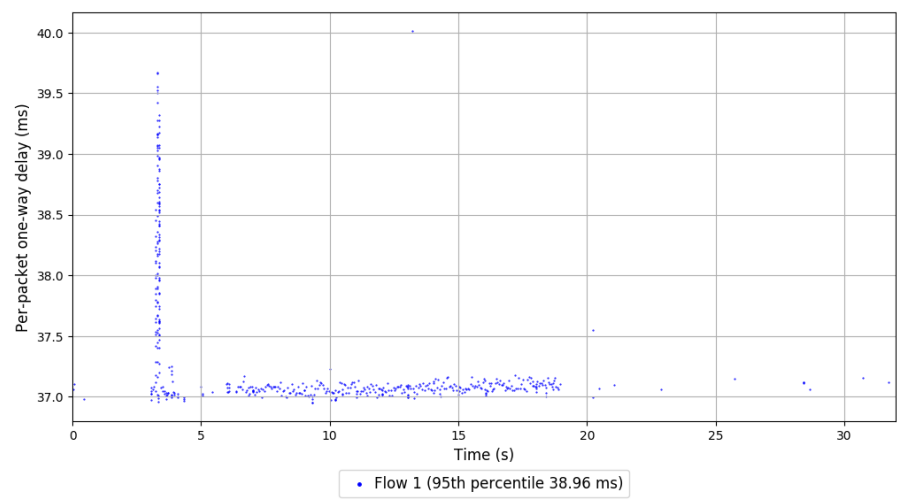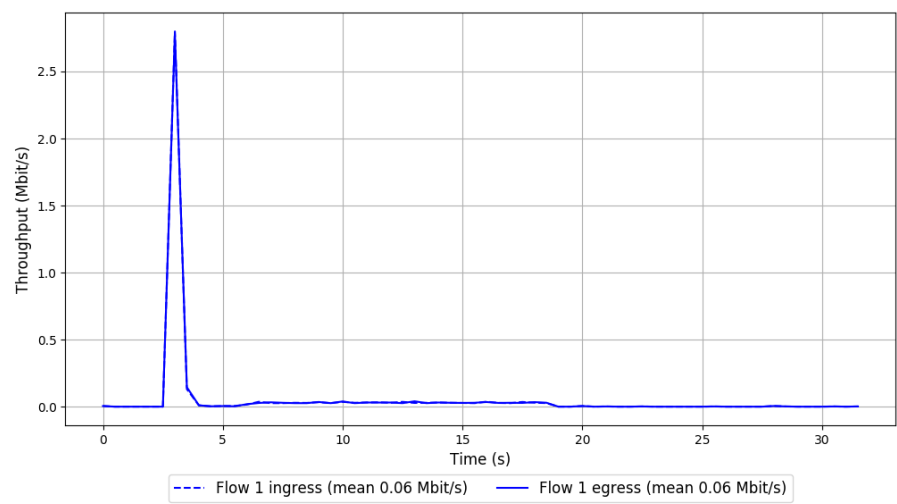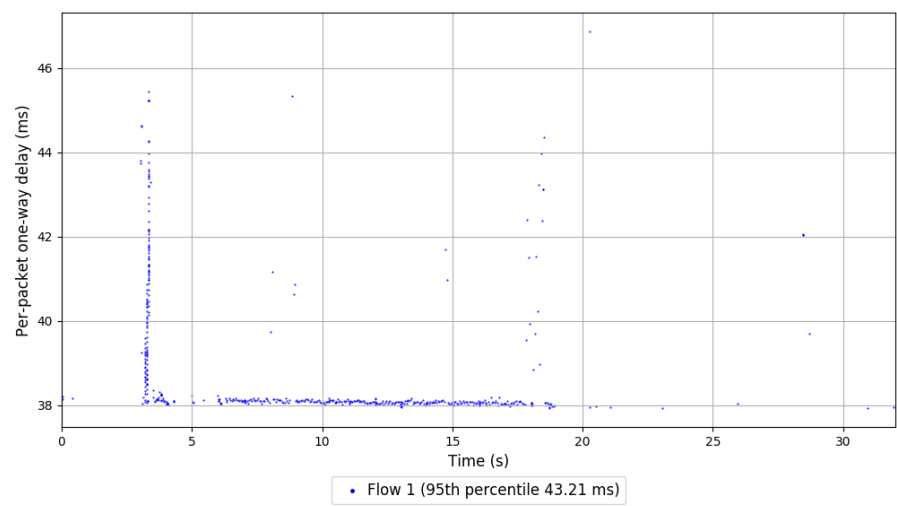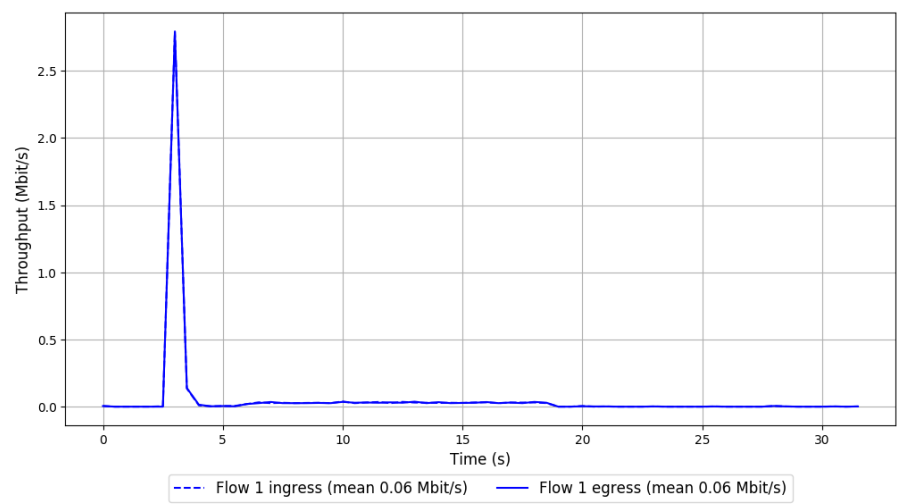
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2018-04-24 06:51:09
End at: 2018-04-24 06:51:39
Local clock offset: -4.229 ms
Remote clock offset: -2.637 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 43.210 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 43.210 ms
Loss rate: 0.07%
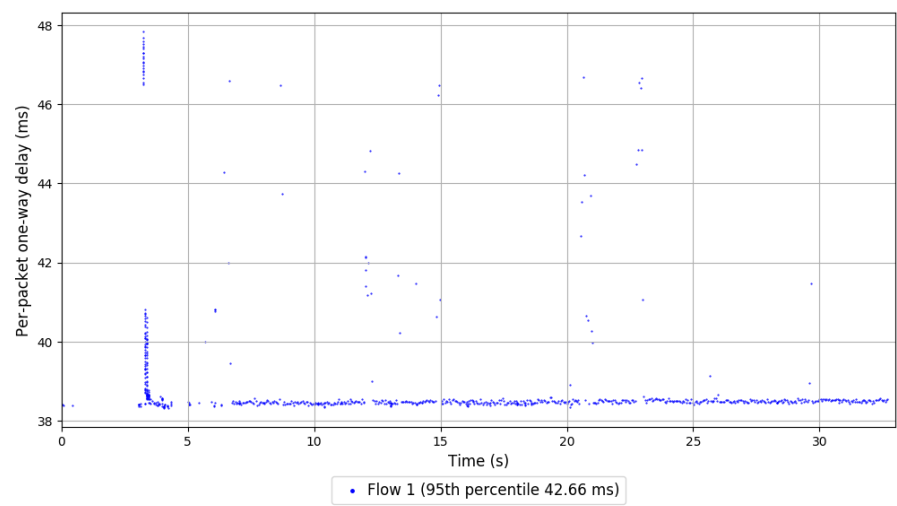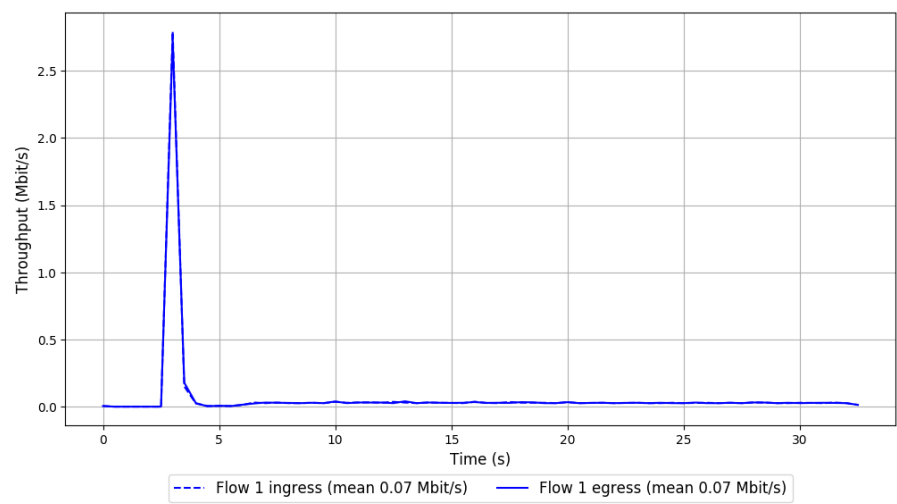```

Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2018-04-24 07:14:05
End at: 2018-04-24 07:14:35
Local clock offset: -2.72 ms
Remote clock offset: -2.442 ms

Below is generated by plot.py at 2018-04-24 12:59:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 42.664 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 42.664 ms
Loss rate: 0.62%
```
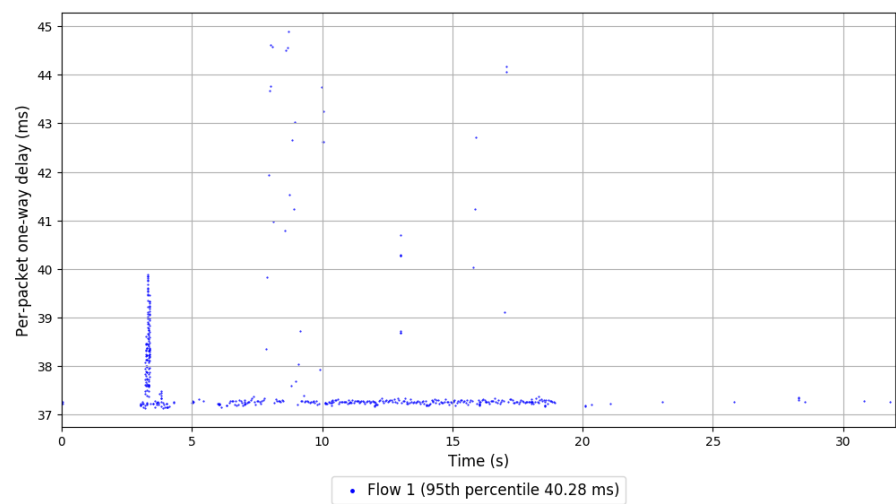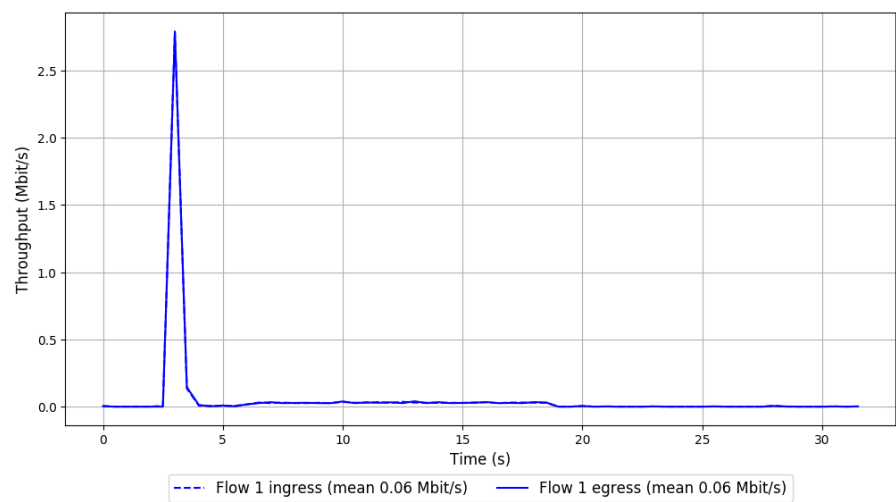
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-04-24 07:37:39
End at: 2018-04-24 07:38:09
Local clock offset: -0.638 ms
Remote clock offset: -1.032 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.283 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 40.283 ms
Loss rate: 0.11%
```

Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-04-24 08:03:18
End at: 2018-04-24 08:03:48
Local clock offset: -0.578 ms
Remote clock offset: -1.03 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 42.934 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 42.934 ms
Loss rate: 0.04%
```
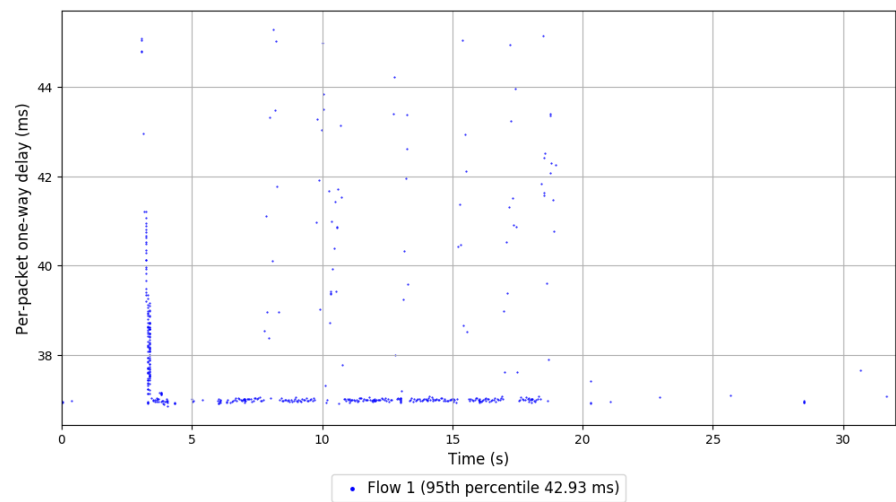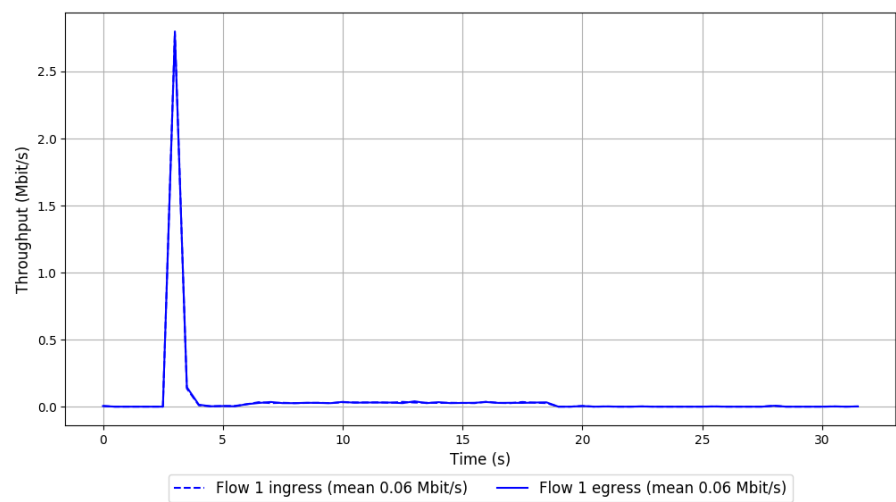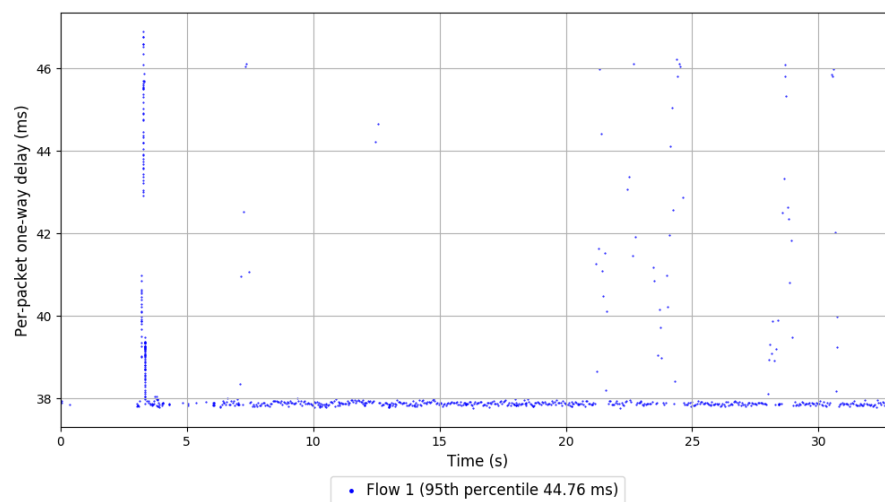
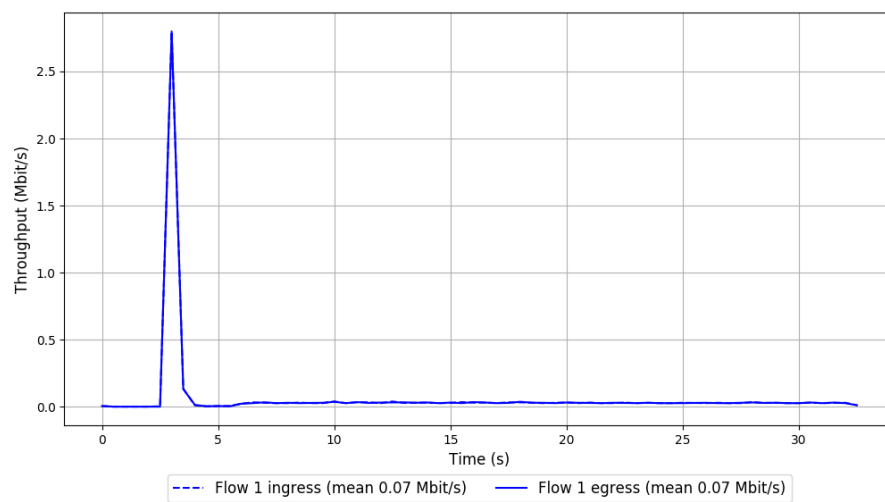Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2018-04-24 08:26:53
End at: 2018-04-24 08:27:23
Local clock offset: -0.683 ms
Remote clock offset: -1.765 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 44.763 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 44.763 ms
Loss rate: 0.23%
```

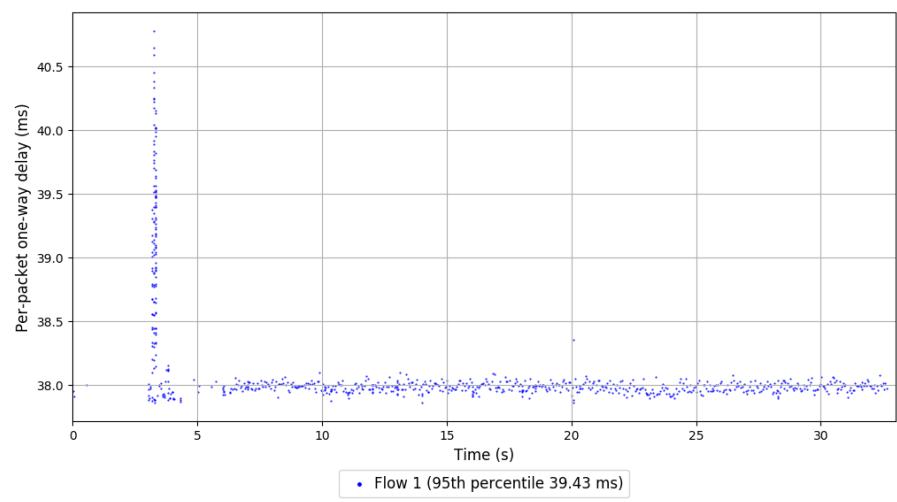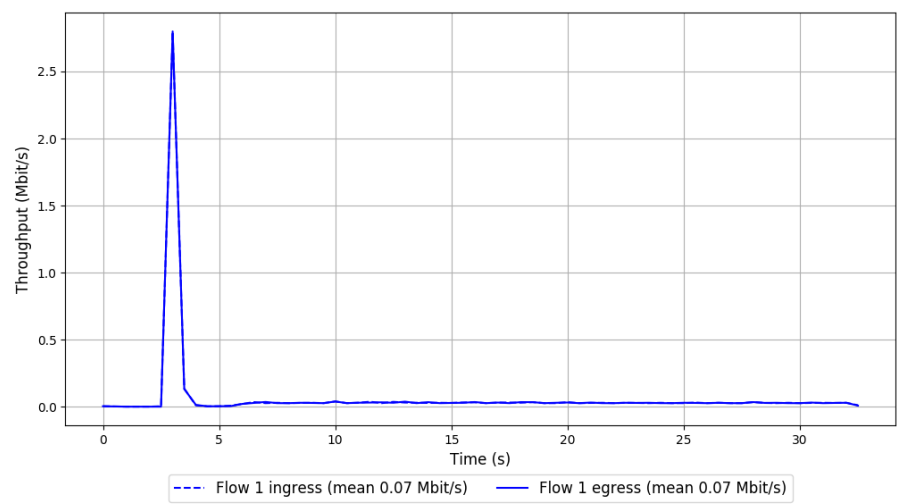Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-04-24 08:50:21
End at: 2018-04-24 08:50:51
Local clock offset: -0.433 ms
Remote clock offset: -1.796 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 39.430 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 39.430 ms
Loss rate: 0.12%
```

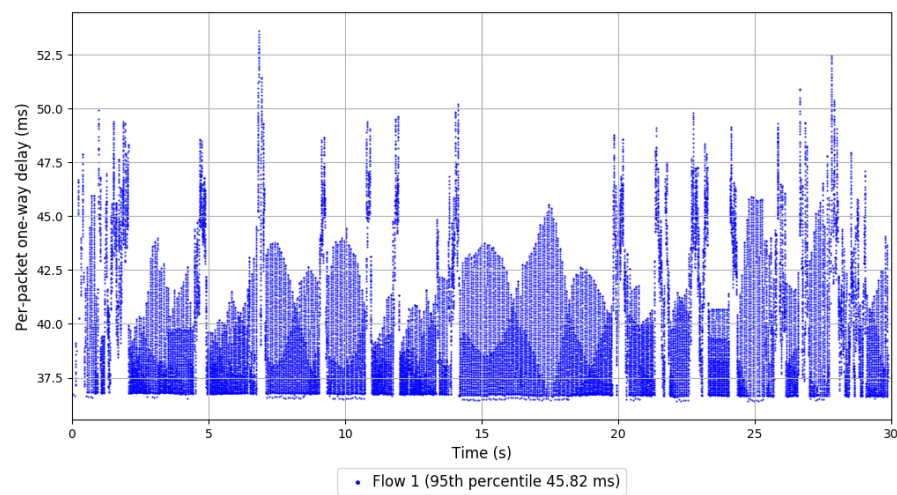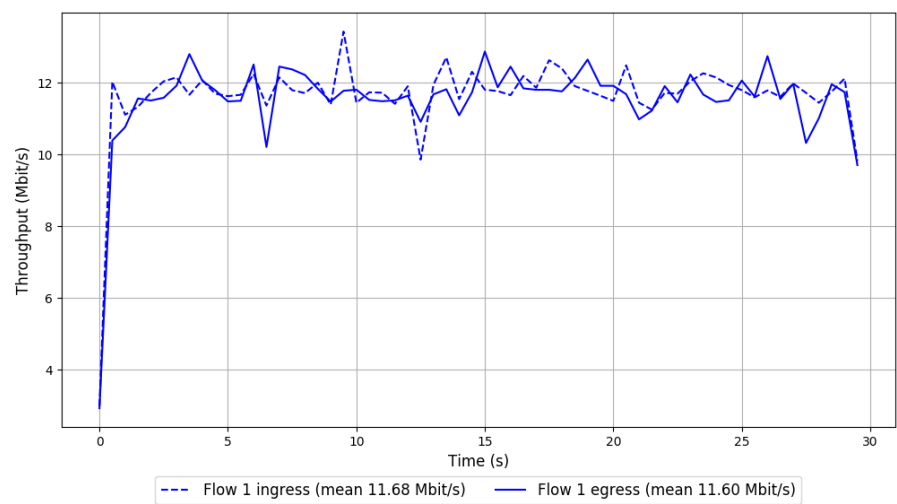Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2018-04-24 05:12:42
End at: 2018-04-24 05:13:12
Local clock offset: -4.559 ms
Remote clock offset: -1.283 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 45.822 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 11.60 Mbit/s
95th percentile per-packet one-way delay: 45.822 ms
Loss rate: 0.91%
```
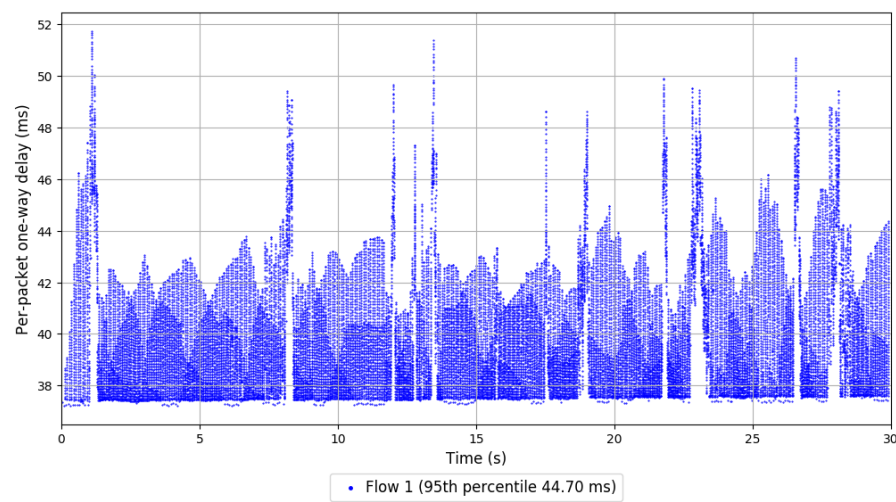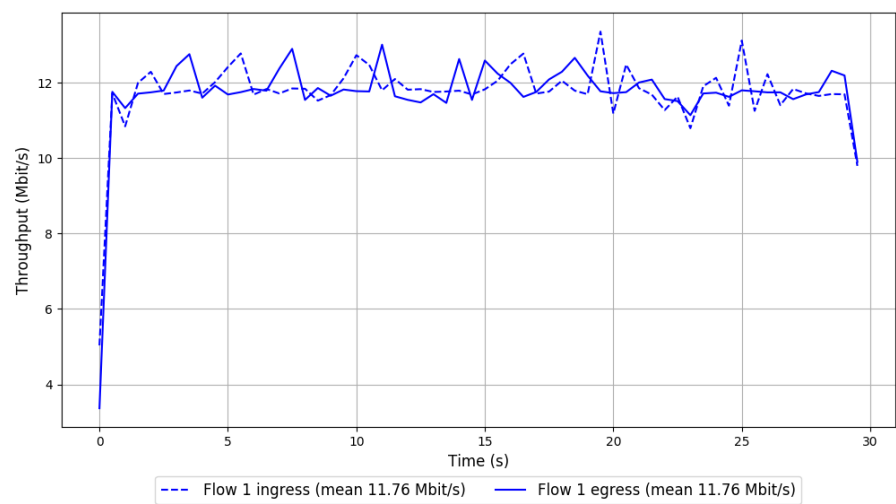
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-04-24 05:36:49
End at: 2018-04-24 05:37:19
Local clock offset: -8.829 ms
Remote clock offset: -3.361 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 44.699 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 44.699 ms
Loss rate: 0.22%
```

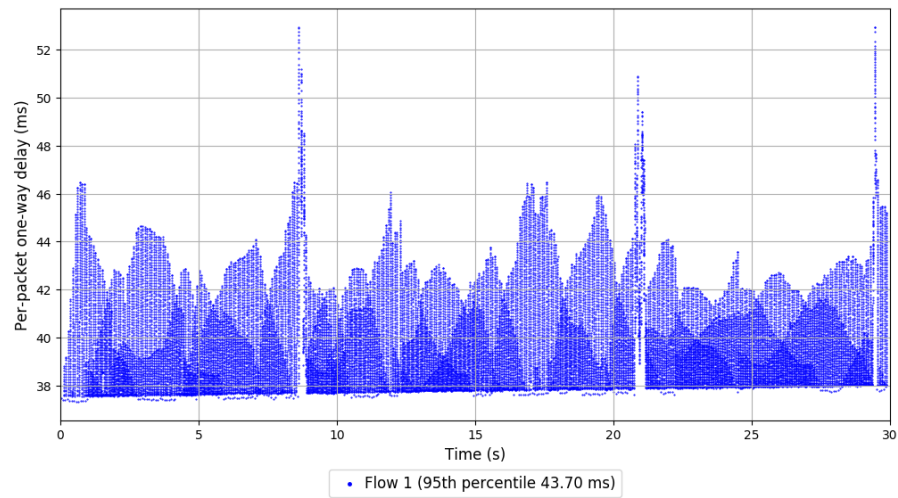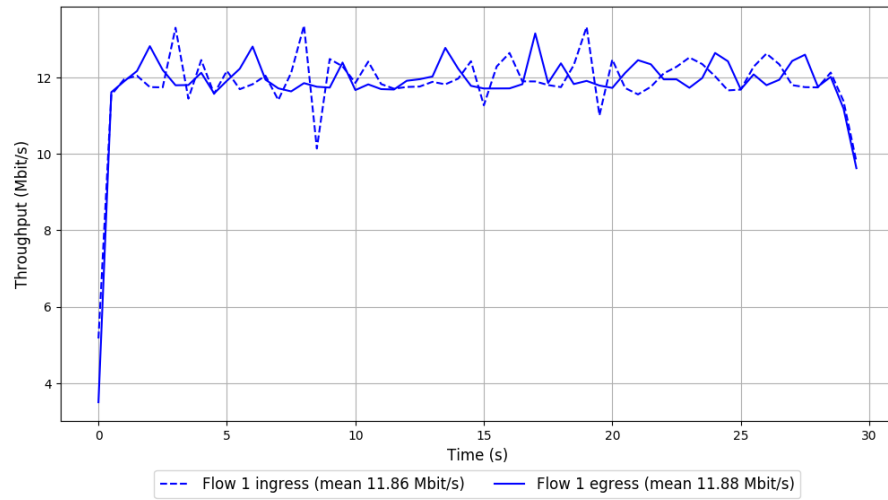# Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-04-24 06:00:24
End at: 2018-04-24 06:00:54
Local clock offset: -9.606 ms
Remote clock offset: -2.902 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 43.698 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 43.698 ms
Loss rate: 0.11%
```

Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2018-04-24 06:23:11
End at: 2018-04-24 06:23:41
Local clock offset: -5.909 ms
Remote clock offset: 3.92 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 43.257 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 43.257 ms
Loss rate: 0.32%
```
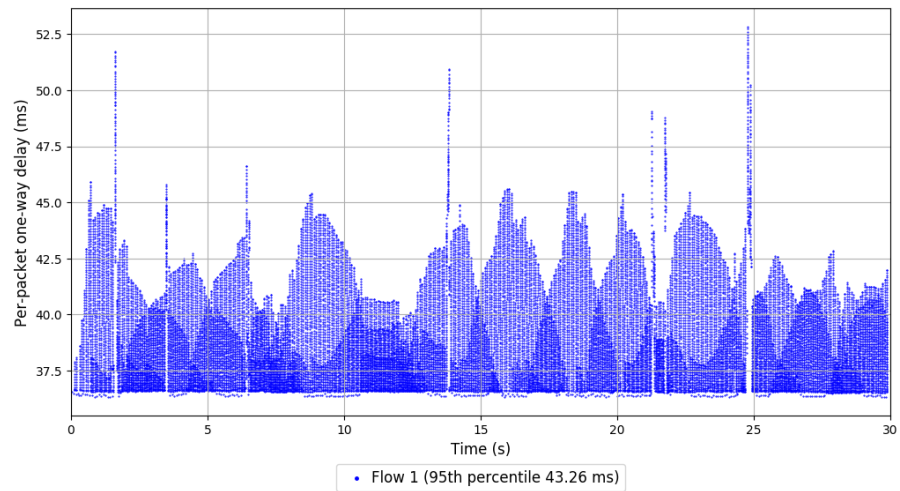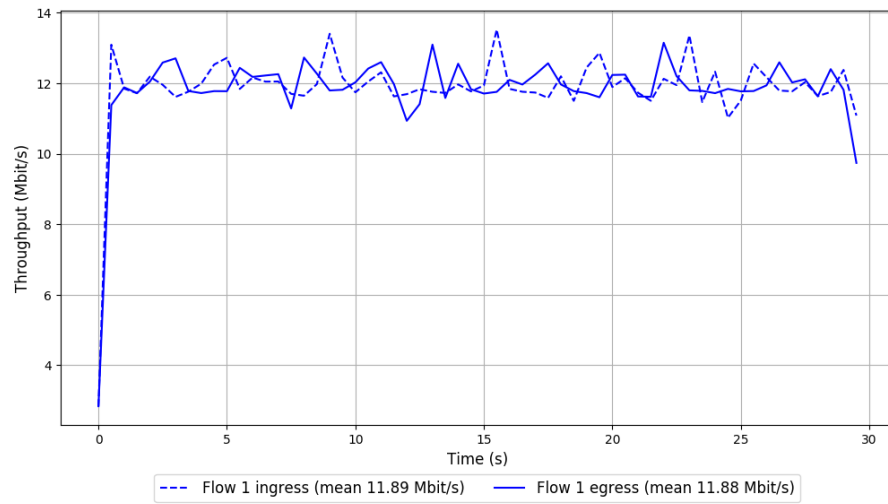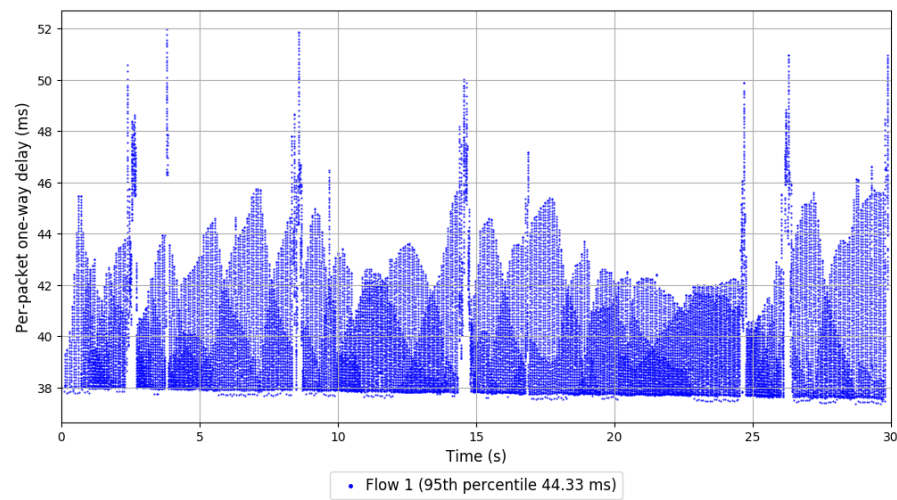
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-04-24 06:45:49
End at: 2018-04-24 06:46:19
Local clock offset: -6.806 ms
Remote clock offset: -1.473 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 44.326 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 11.77 Mbit/s
95th percentile per-packet one-way delay: 44.326 ms
Loss rate: 0.28%
```
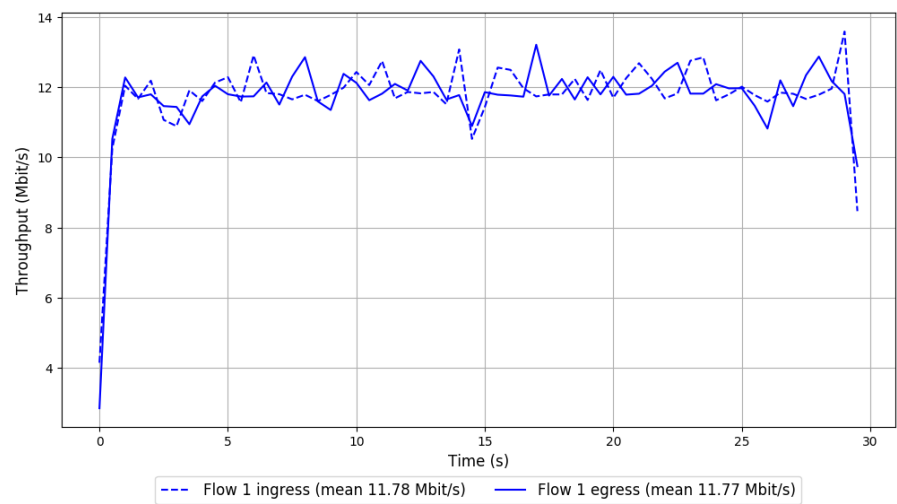
Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 11.78 Mbit/s) ----- Flow 1 egress (mean 11.77 Mbit/s) —————

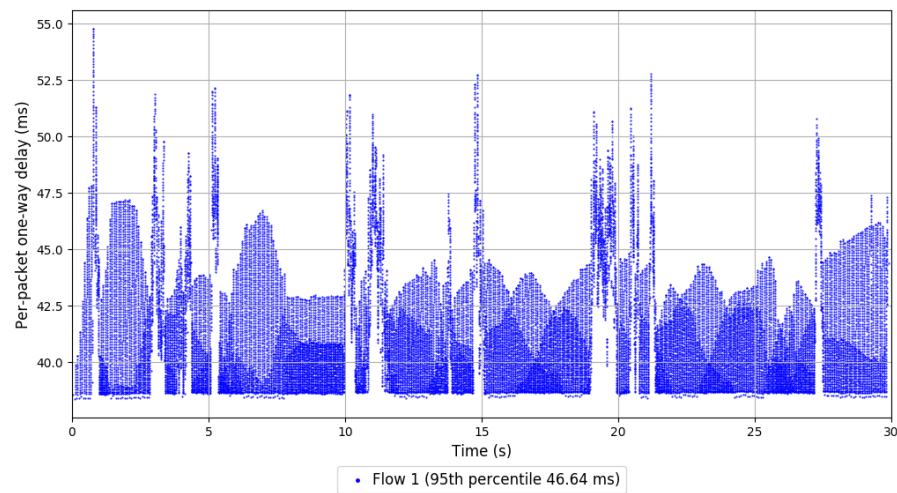

• Flow 1 (95th percentile 44.33 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-04-24 07:08:42
End at: 2018-04-24 07:09:12
Local clock offset: -2.373 ms
Remote clock offset: -2.858 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 46.641 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 46.641 ms
Loss rate: 0.54%
```
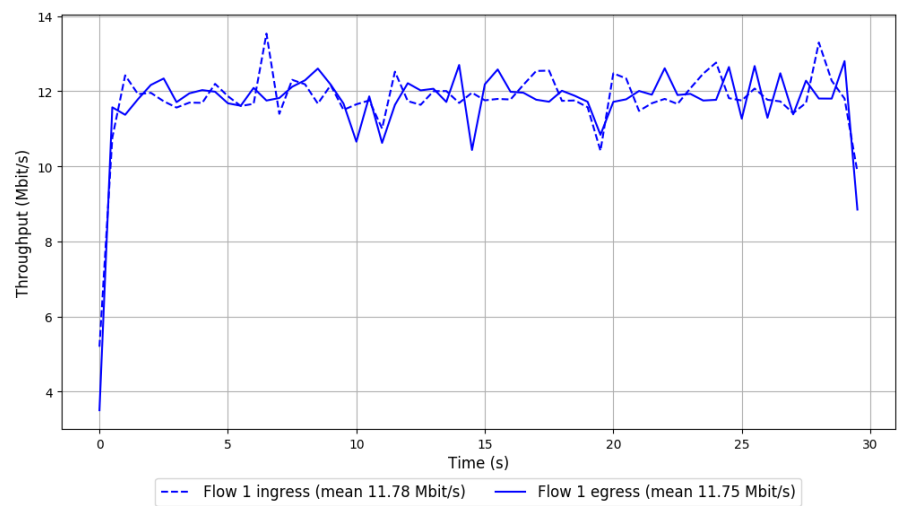
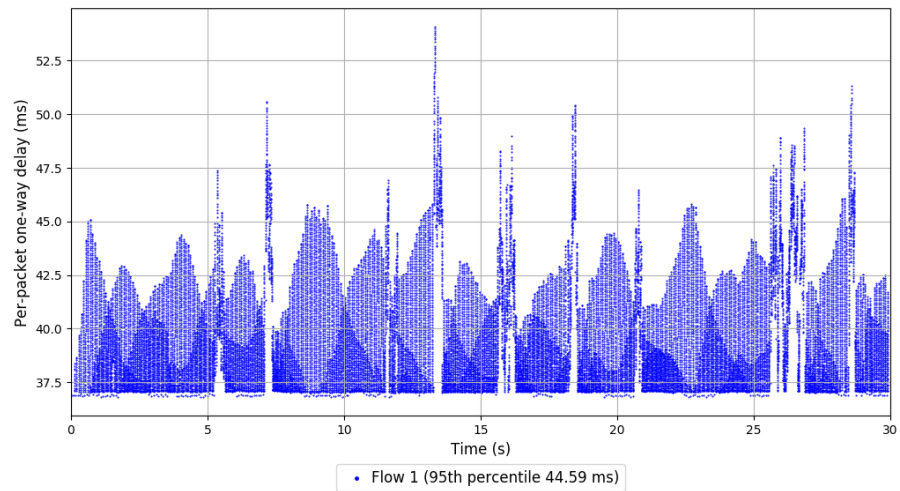## Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2018-04-24 07:32:07
End at: 2018-04-24 07:32:37
Local clock offset: -1.187 ms
Remote clock offset: -1.343 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 44.585 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 11.75 Mbit/s
95th percentile per-packet one-way delay: 44.585 ms
Loss rate: 0.42%
```
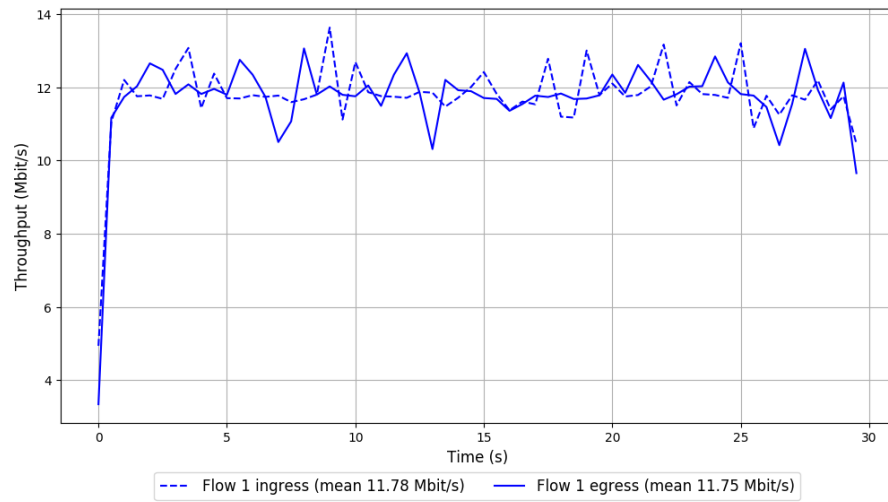
Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2018-04-24 07:57:45
End at: 2018-04-24 07:58:15
Local clock offset: -0.547 ms
Remote clock offset: -0.734 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 44.552 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 11.74 Mbit/s
95th percentile per-packet one-way delay: 44.552 ms
Loss rate: 0.56%
```
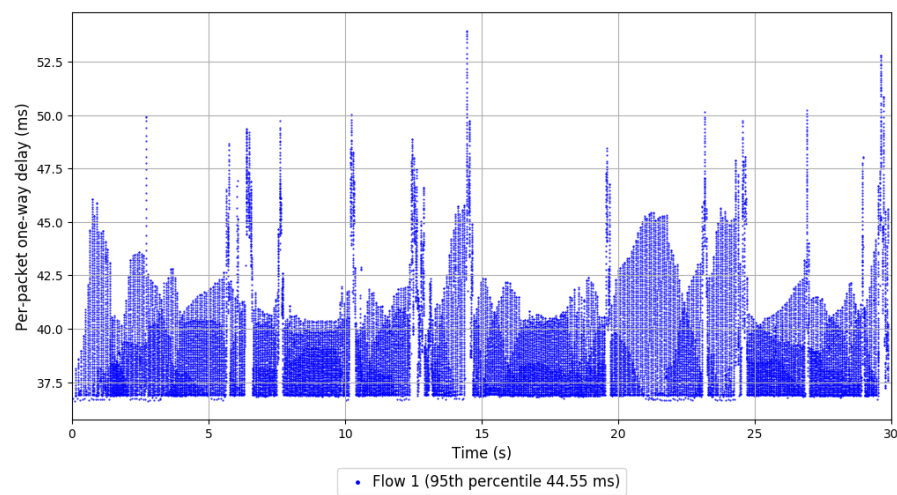
Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2018-04-24 08:21:25
End at: 2018-04-24 08:21:55
Local clock offset: -0.631 ms
Remote clock offset: -1.366 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 44.118 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 44.118 ms
Loss rate: 0.52%
```

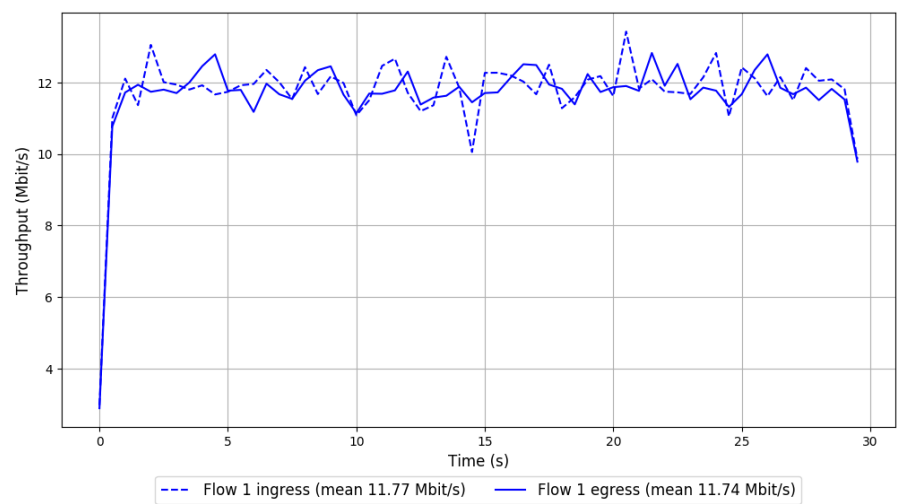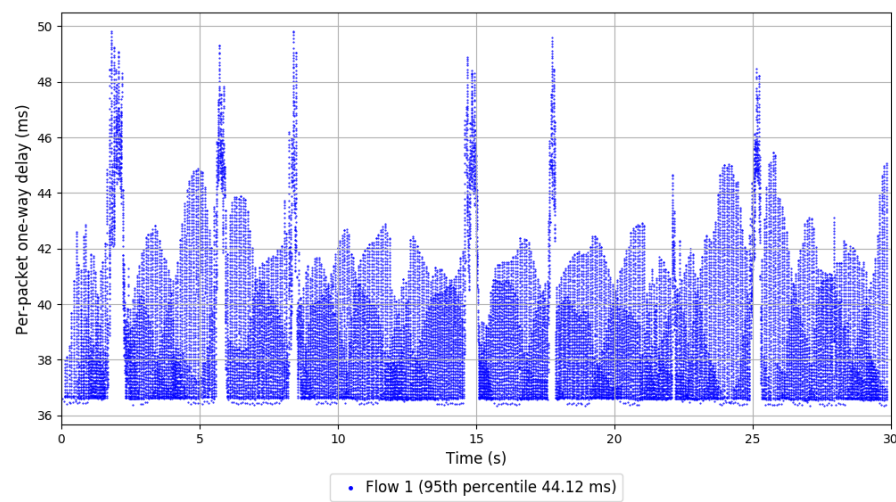Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 11.72 Mbit/s) ----   Flow 1 egress (mean 11.69 Mbit/s) ——

• Flow 1 (95th percentile 44.12 ms)

```
Run 10: Statistics of Sprout

Start at: 2018-04-24 08:44:40
End at: 2018-04-24 08:45:10
Local clock offset: -0.276 ms
Remote clock offset: -2.37 ms


# Below is generated by plot.py at 2018-04-24 12:59:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 44.048 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 44.048 ms
Loss rate: 0.27%
```

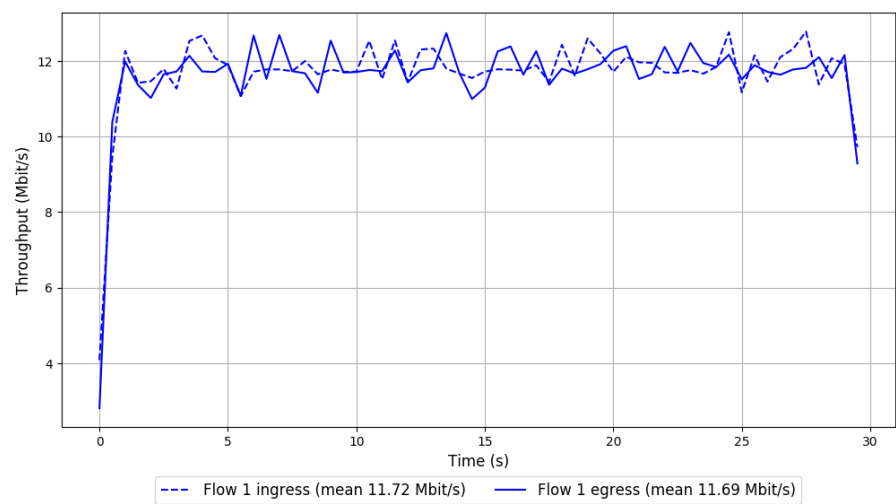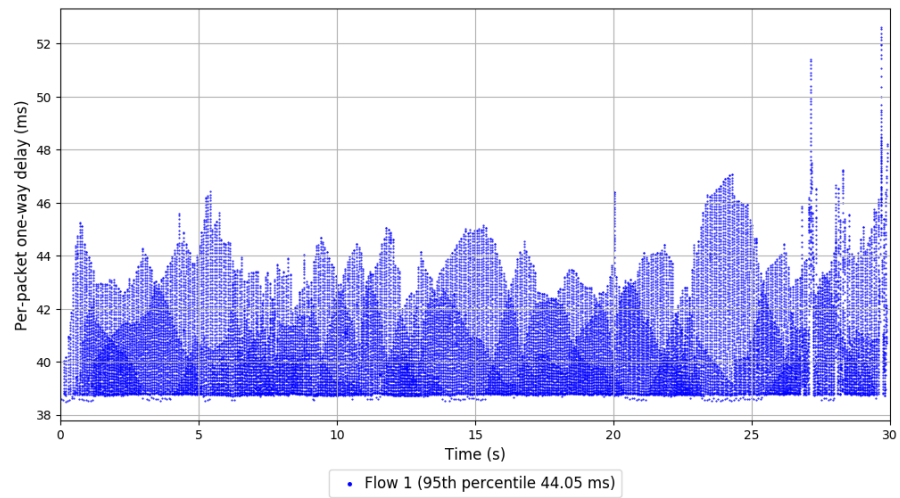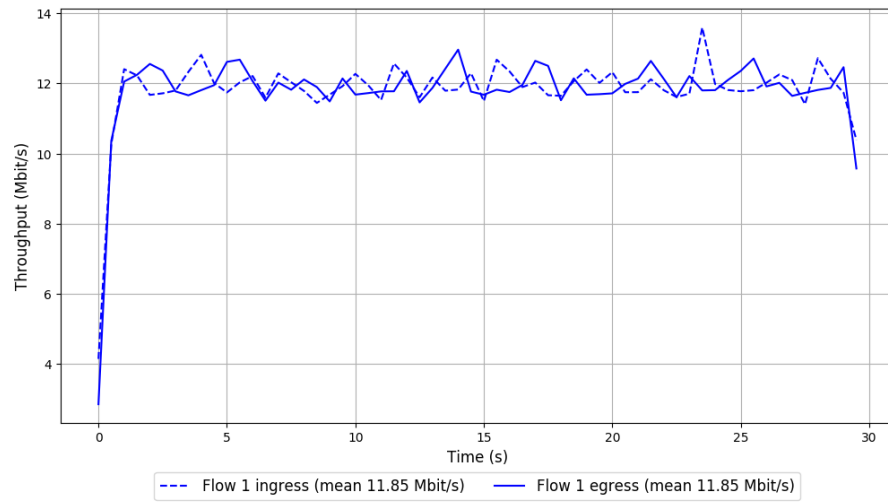Run 10: Report of Sprout — Data Link

Flow 1 ingress (mean 11.85 Mbit/s)   Flow 1 egress (mean 11.85 Mbit/s)

Flow 1 (95th percentile 44.05 ms)

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

Start at: 2018-04-24 05:16:57
End at: 2018-04-24 05:17:27
Local clock offset: -4.42 ms
Remote clock offset: -0.947 ms


# Below is generated by plot.py at 2018-04-24 13:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.83 Mbit/s
95th percentile per-packet one-way delay: 50.645 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 78.83 Mbit/s
95th percentile per-packet one-way delay: 50.645 ms
Loss rate: 1.36%
```
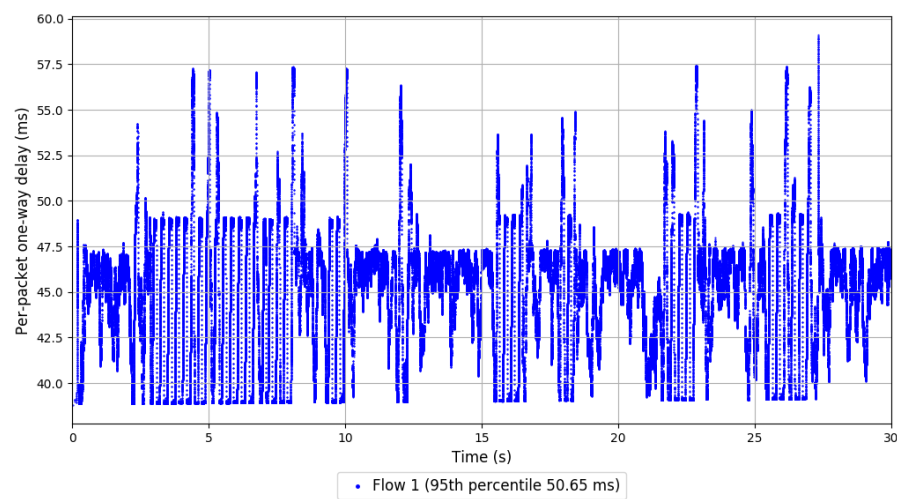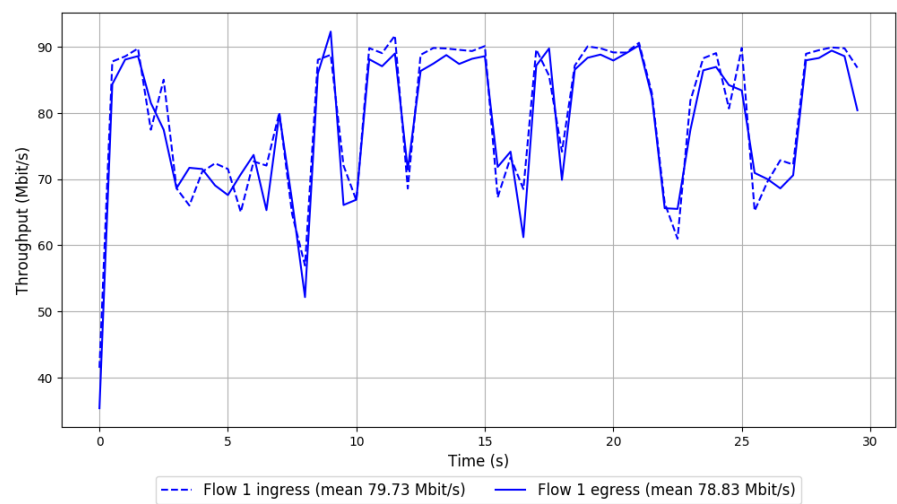
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 79.73 Mbit/s) ----- Flow 1 egress (mean 78.83 Mbit/s)

• Flow 1 (95th percentile 50.65 ms)

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

Start at: 2018-04-24 05:40:48
End at: 2018-04-24 05:41:18
Local clock offset: -8.017 ms
Remote clock offset: -3.691 ms


# Below is generated by plot.py at 2018-04-24 13:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 51.423 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 72.66 Mbit/s
95th percentile per-packet one-way delay: 51.423 ms
Loss rate: 1.10%
```
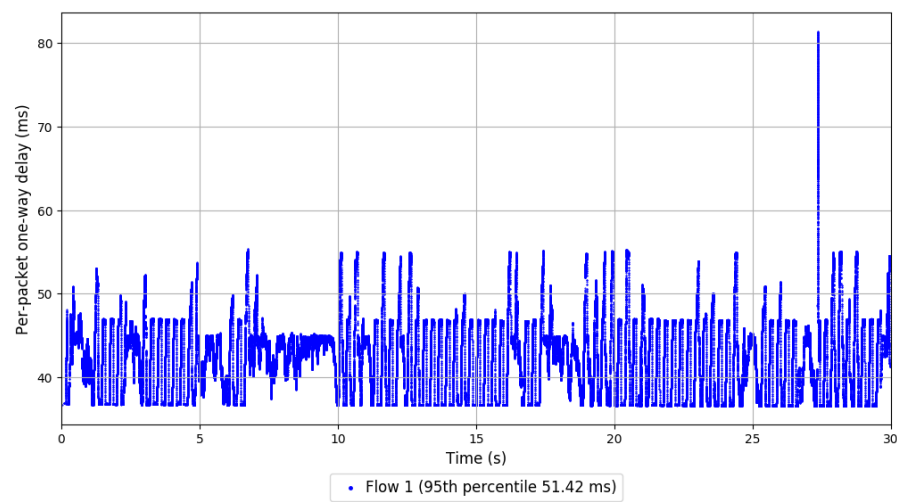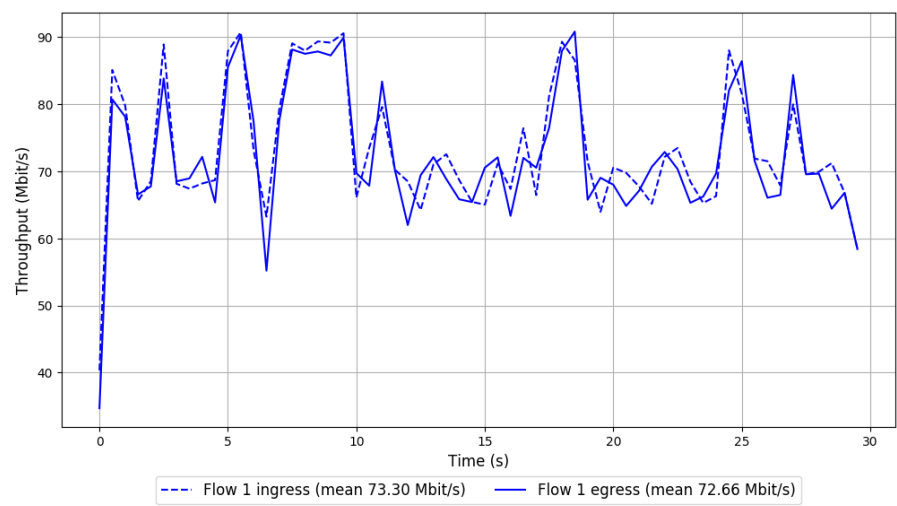
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 73.30 Mbit/s)   Flow 1 egress (mean 72.66 Mbit/s)
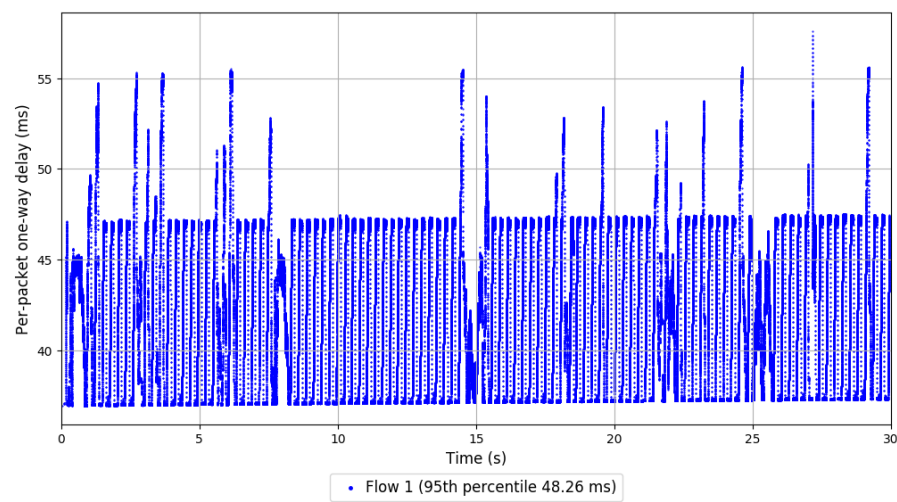

Flow 1 (95th percentile 51.42 ms)

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

Start at: 2018-04-24 06:04:21
End at: 2018-04-24 06:04:51
Local clock offset: -10.833 ms
Remote clock offset: -0.319 ms


# Below is generated by plot.py at 2018-04-24 13:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.28 Mbit/s
95th percentile per-packet one-way delay: 48.261 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 71.28 Mbit/s
95th percentile per-packet one-way delay: 48.261 ms
Loss rate: 0.48%
```
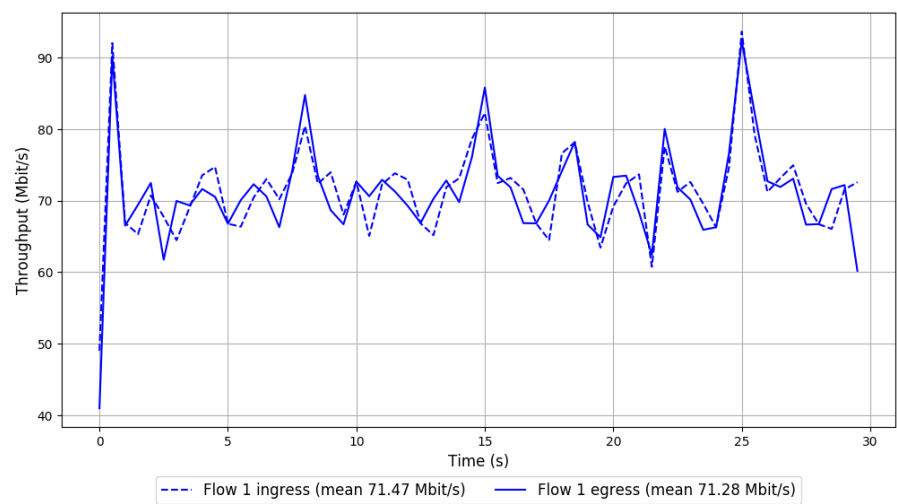
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 71.47 Mbit/s)   Flow 1 egress (mean 71.28 Mbit/s)

Flow 1 (95th percentile 48.26 ms)

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

Start at: 2018-04-24 06:27:07
End at: 2018-04-24 06:27:37
Local clock offset: -5.345 ms
Remote clock offset: 4.368 ms


# Below is generated by plot.py at 2018-04-24 13:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.61 Mbit/s
95th percentile per-packet one-way delay: 51.523 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 71.61 Mbit/s
95th percentile per-packet one-way delay: 51.523 ms
Loss rate: 0.84%
```
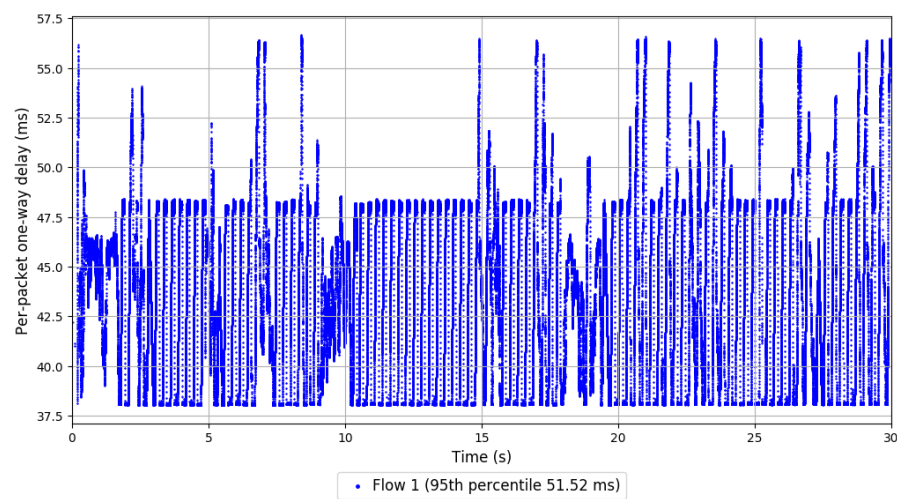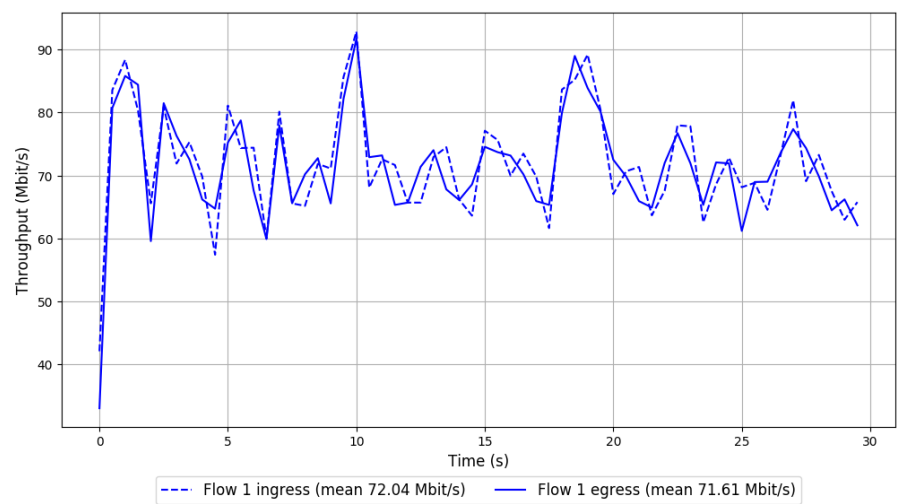
Run 4: Report of TaoVA-100x — Data Link

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

Start at: 2018-04-24 06:49:45
End at: 2018-04-24 06:50:15
Local clock offset: -4.842 ms
Remote clock offset: -2.52 ms


# Below is generated by plot.py at 2018-04-24 13:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.39 Mbit/s
95th percentile per-packet one-way delay: 50.701 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 71.39 Mbit/s
95th percentile per-packet one-way delay: 50.701 ms
Loss rate: 0.56%
```
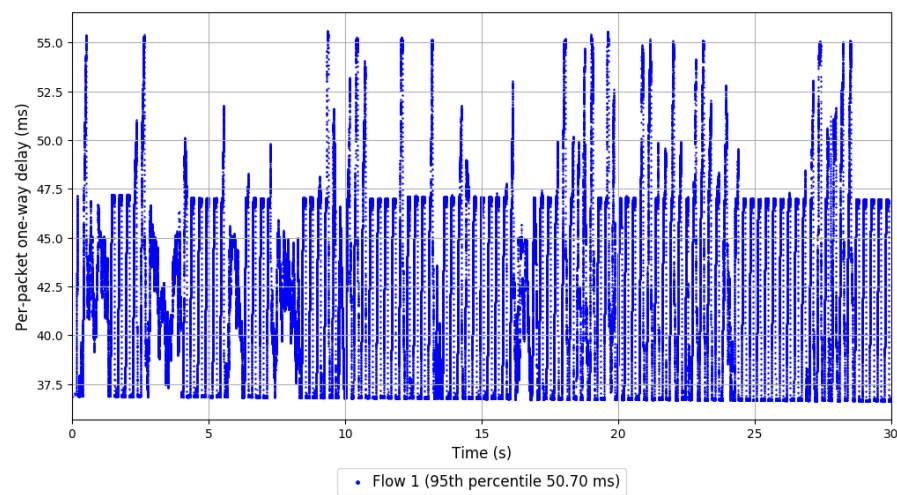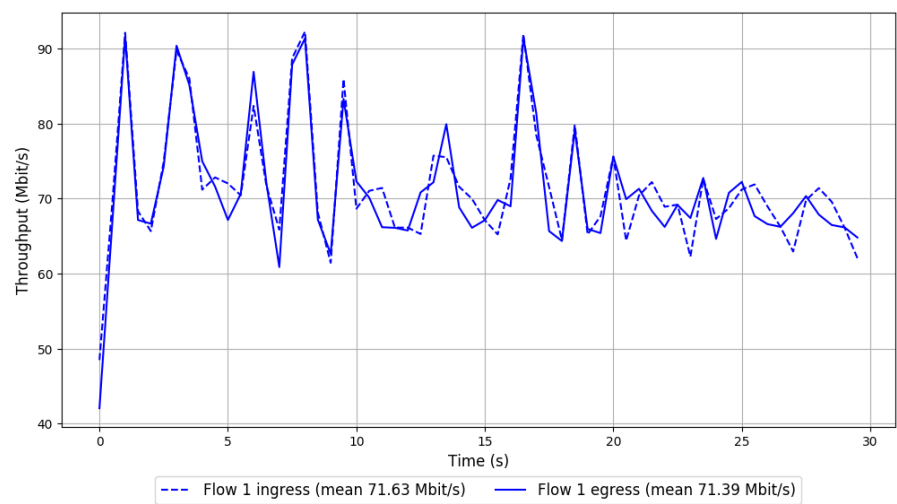
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 71.63 Mbit/s) --- Flow 1 egress (mean 71.39 Mbit/s)

Flow 1 (95th percentile 50.70 ms)

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

Start at: 2018-04-24 07:12:38
End at: 2018-04-24 07:13:08
Local clock offset: -2.632 ms
Remote clock offset: -2.084 ms


# Below is generated by plot.py at 2018-04-24 13:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.17 Mbit/s
95th percentile per-packet one-way delay: 49.598 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 71.17 Mbit/s
95th percentile per-packet one-way delay: 49.598 ms
Loss rate: 0.63%
```
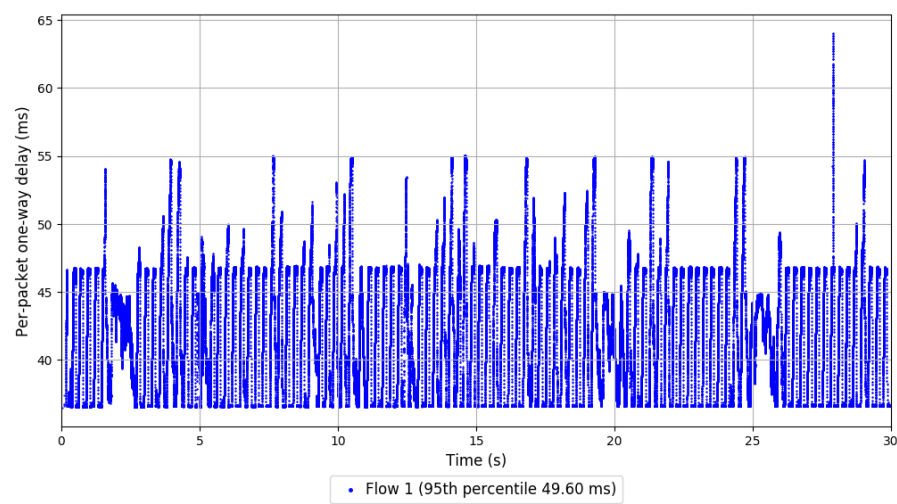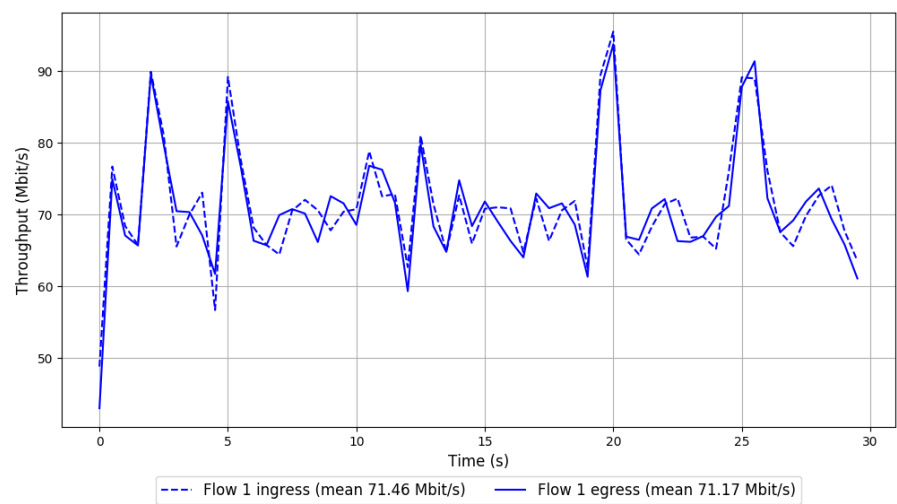
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 71.46 Mbit/s) ——— Flow 1 egress (mean 71.17 Mbit/s)

• Flow 1 (95th percentile 49.60 ms)

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

Start at: 2018-04-24 07:36:12
End at: 2018-04-24 07:36:42
Local clock offset: -0.84 ms
Remote clock offset: -0.638 ms


# Below is generated by plot.py at 2018-04-24 13:01:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.05 Mbit/s
95th percentile per-packet one-way delay: 50.016 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 72.05 Mbit/s
95th percentile per-packet one-way delay: 50.016 ms
Loss rate: 0.34%
```
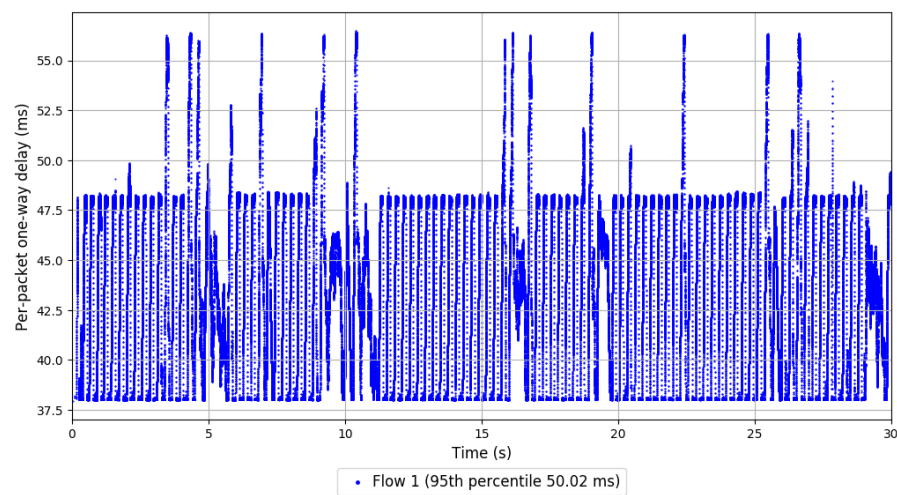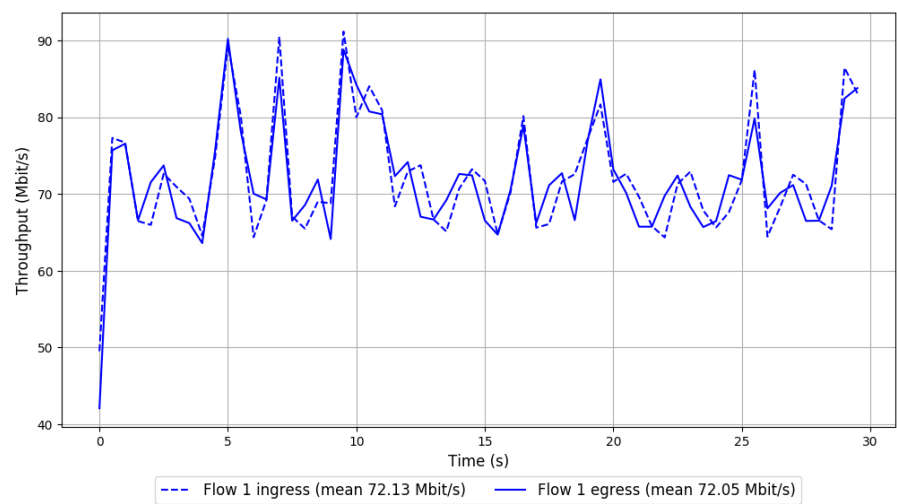
Run 7: Report of TaoVA-100x — Data Link

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

Start at: 2018-04-24 08:01:44
End at: 2018-04-24 08:02:14
Local clock offset: -0.289 ms
Remote clock offset: -0.527 ms


# Below is generated by plot.py at 2018-04-24 13:01:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.83 Mbit/s
95th percentile per-packet one-way delay: 48.588 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 71.83 Mbit/s
95th percentile per-packet one-way delay: 48.588 ms
Loss rate: 0.48%
```
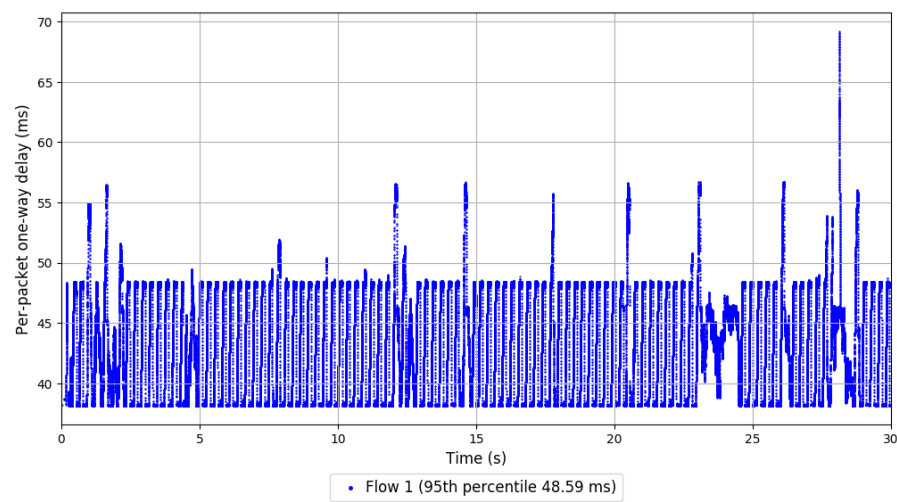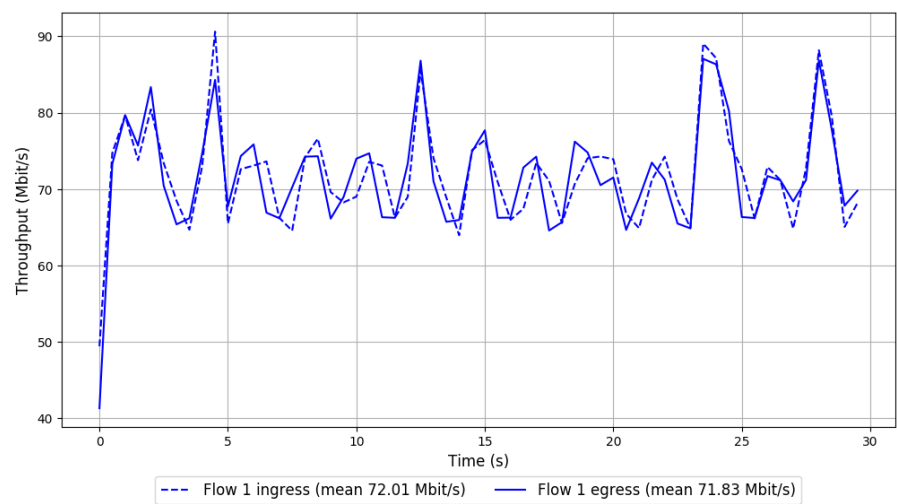
Run 8: Report of TaoVA-100x — Data Link

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

Start at: 2018-04-24 08:25:25
End at: 2018-04-24 08:25:55
Local clock offset: -0.491 ms
Remote clock offset: -2.199 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 51.797 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 72.33 Mbit/s
95th percentile per-packet one-way delay: 51.797 ms
Loss rate: 1.06%
```
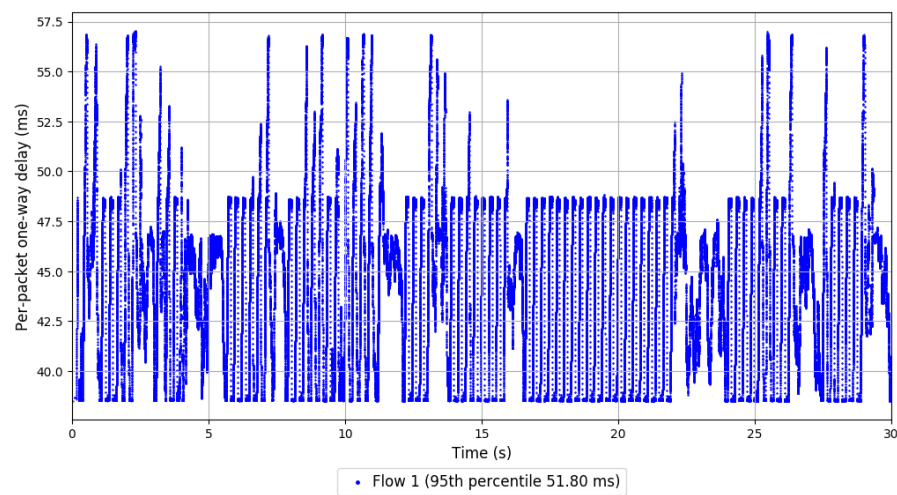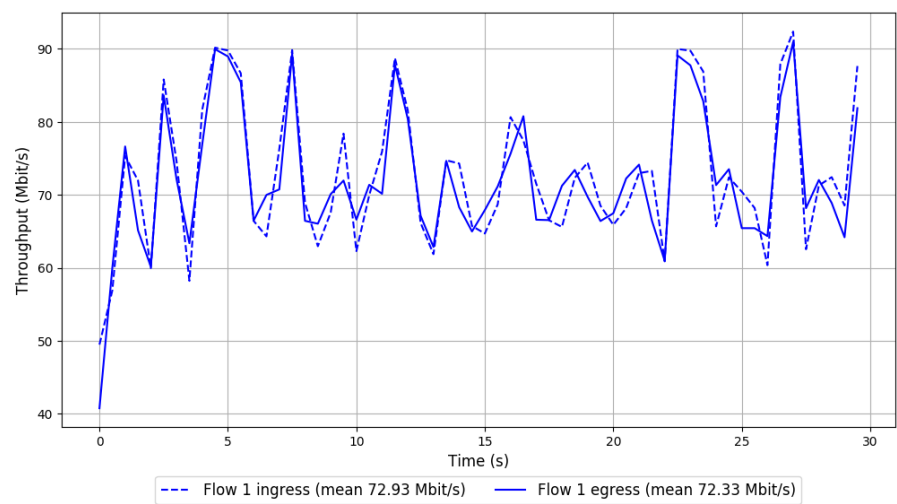
Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 72.93 Mbit/s)   Flow 1 egress (mean 72.33 Mbit/s)

Flow 1 (95th percentile 51.80 ms)

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

Start at: 2018-04-24 08:48:44
End at: 2018-04-24 08:49:14
Local clock offset: -0.289 ms
Remote clock offset: -2.297 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.65 Mbit/s
95th percentile per-packet one-way delay: 49.575 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 70.65 Mbit/s
95th percentile per-packet one-way delay: 49.575 ms
Loss rate: 0.46%
```
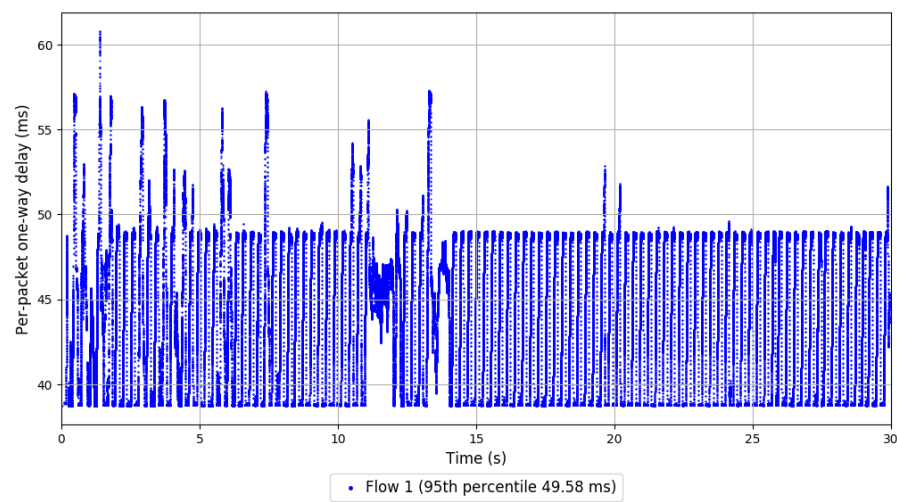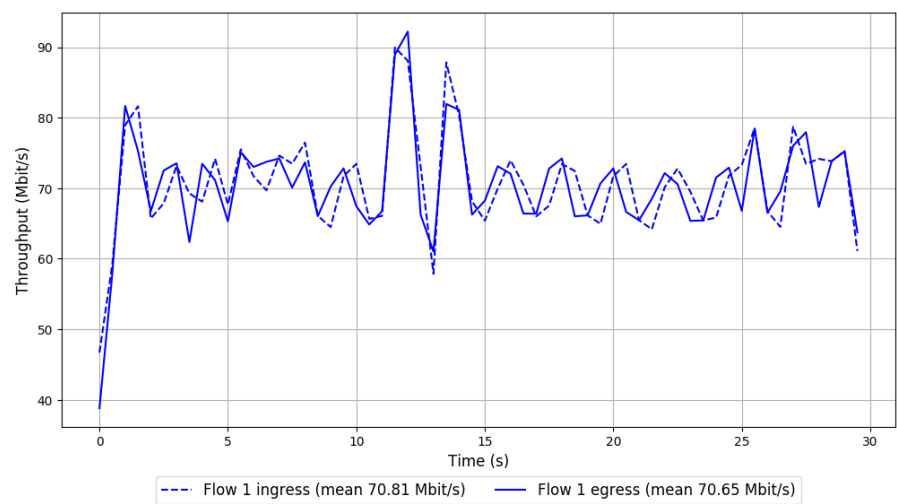
Run 10: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 05:26:53
End at: 2018-04-24 05:27:23
Local clock offset: -5.086 ms
Remote clock offset: -0.931 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 46.038 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 7.04 Mbit/s
95th percentile per-packet one-way delay: 46.038 ms
Loss rate: 1.16%
```
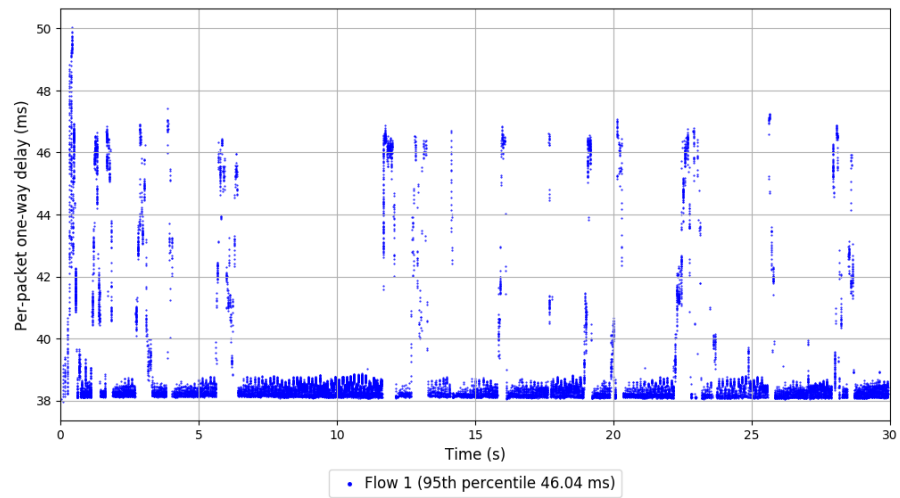
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 05:50:47
End at: 2018-04-24 05:51:17
Local clock offset: -7.257 ms
Remote clock offset: -3.546 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 45.465 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 45.465 ms
Loss rate: 0.52%
```
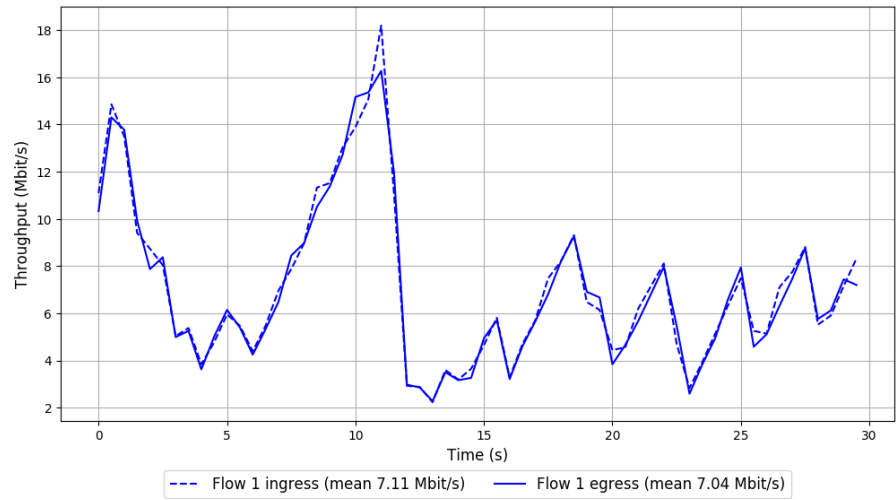
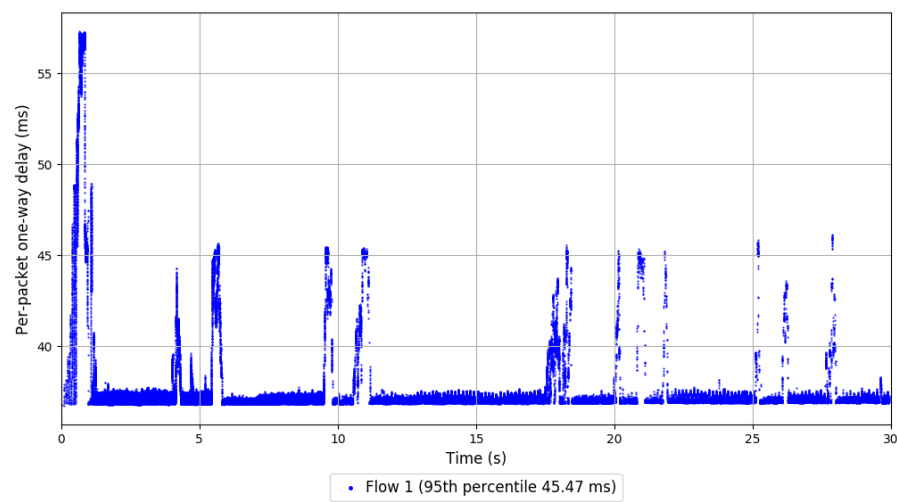Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 06:13:47
End at: 2018-04-24 06:14:17
Local clock offset: -11.468 ms
Remote clock offset: 1.914 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.54 Mbit/s
95th percentile per-packet one-way delay: 46.652 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 17.54 Mbit/s
95th percentile per-packet one-way delay: 46.652 ms
Loss rate: 0.31%
```
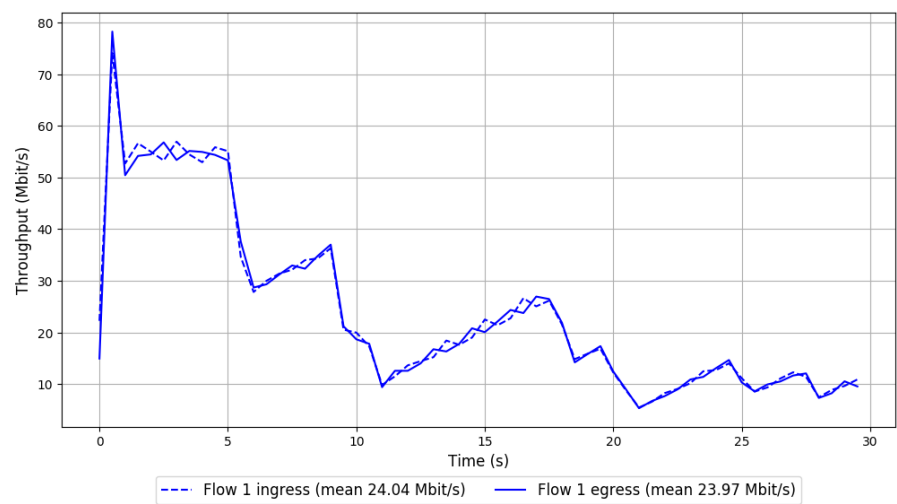
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 17.56 Mbit/s) — Flow 1 egress (mean 17.54 Mbit/s)
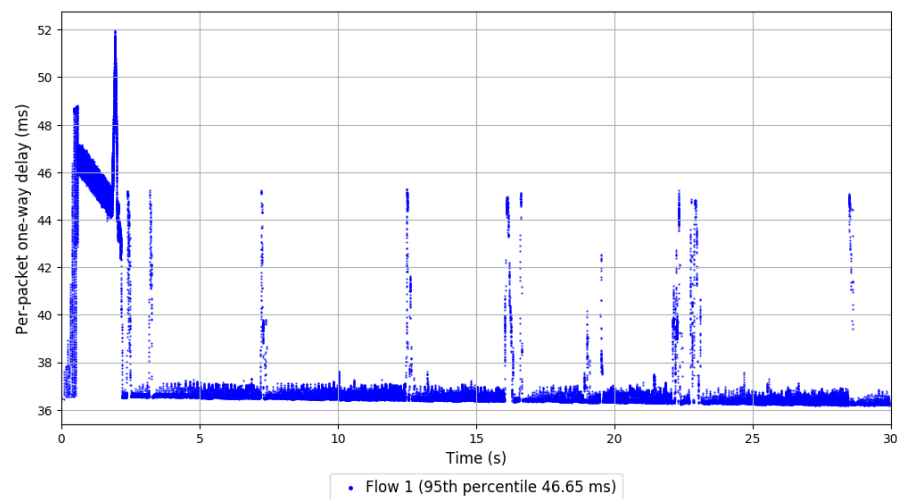

• Flow 1 (95th percentile 46.65 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 06:36:29
End at: 2018-04-24 06:36:59
Local clock offset: -5.583 ms
Remote clock offset: 1.488 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 39.901 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 21.47 Mbit/s
95th percentile per-packet one-way delay: 39.901 ms
Loss rate: 0.37%
```
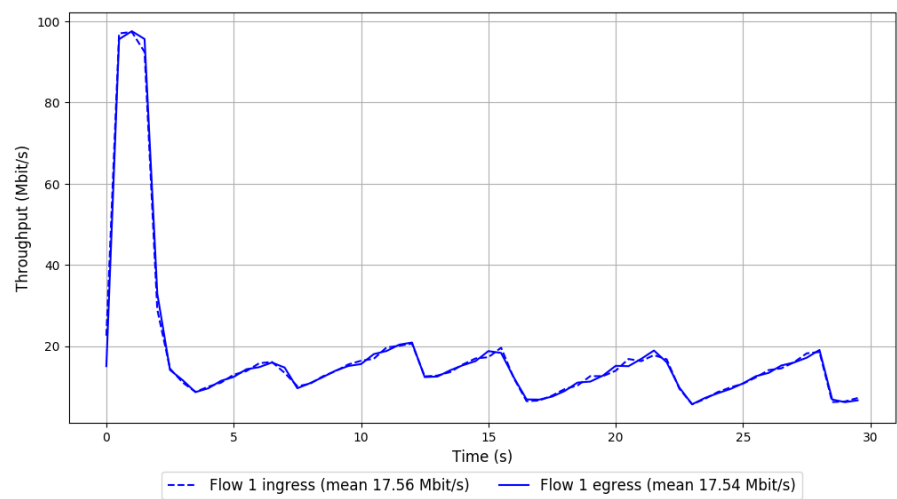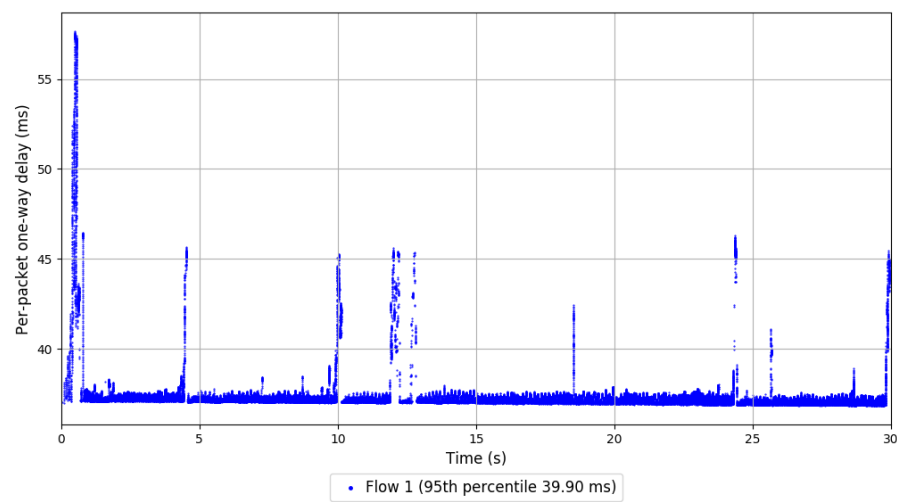
Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 06:59:19
End at: 2018-04-24 06:59:49
Local clock offset: -2.576 ms
Remote clock offset: -2.57 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.13 Mbit/s
95th percentile per-packet one-way delay: 46.094 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 26.13 Mbit/s
95th percentile per-packet one-way delay: 46.094 ms
Loss rate: 0.53%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 26.21 Mbit/s) Flow 1 egress (mean 26.13 Mbit/s)

Flow 1 (95th percentile 46.09 ms)

```
Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 07:22:19
End at: 2018-04-24 07:22:49
Local clock offset: -2.549 ms
Remote clock offset: -2.044 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.34 Mbit/s
95th percentile per-packet one-way delay: 44.444 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 16.34 Mbit/s
95th percentile per-packet one-way delay: 44.444 ms
Loss rate: 0.52%
```
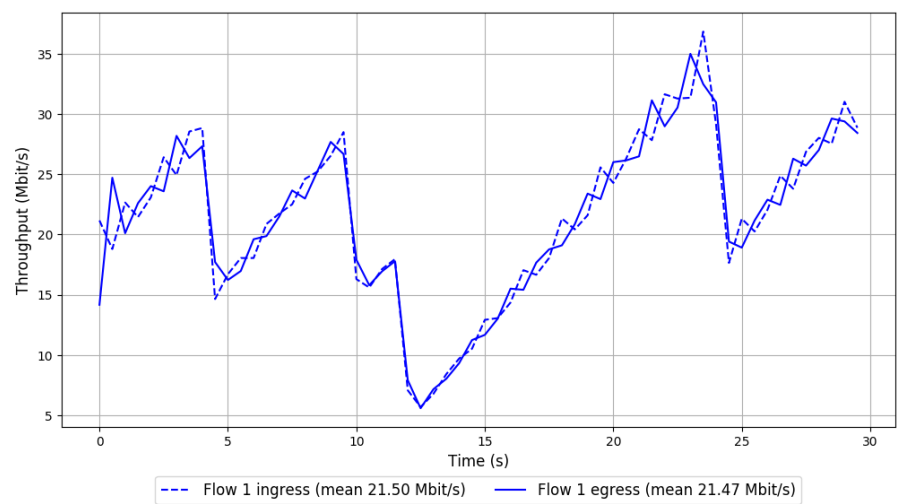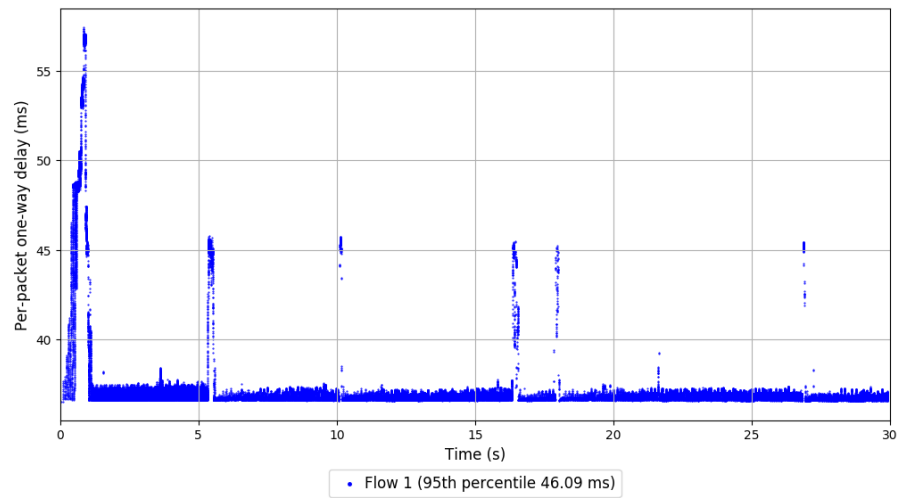
Run 6: Report of TCP Vegas — Data Link

```
Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 07:45:39
End at: 2018-04-24 07:46:09
Local clock offset: -0.69 ms
Remote clock offset: -1.12 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.03 Mbit/s
95th percentile per-packet one-way delay: 52.035 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 15.03 Mbit/s
95th percentile per-packet one-way delay: 52.035 ms
Loss rate: 0.57%
```
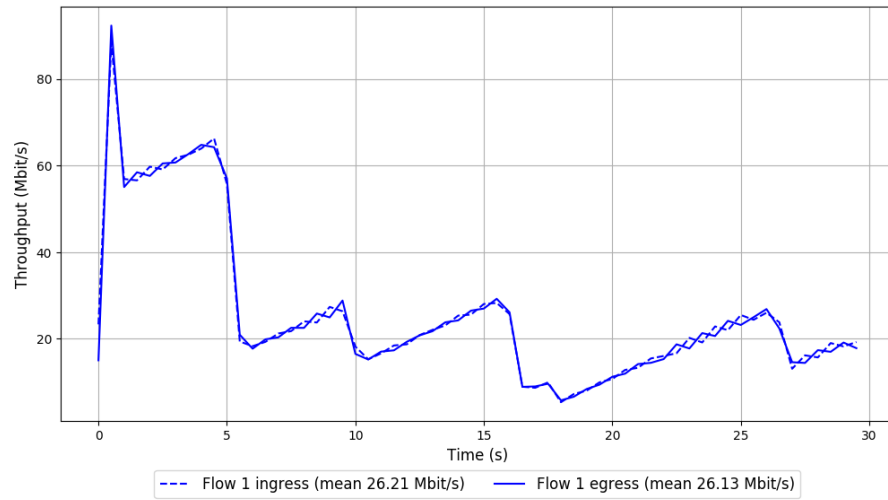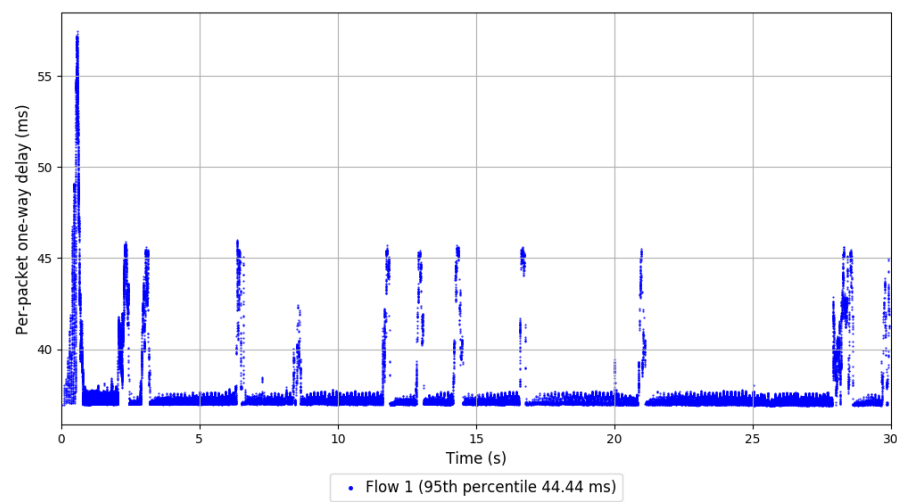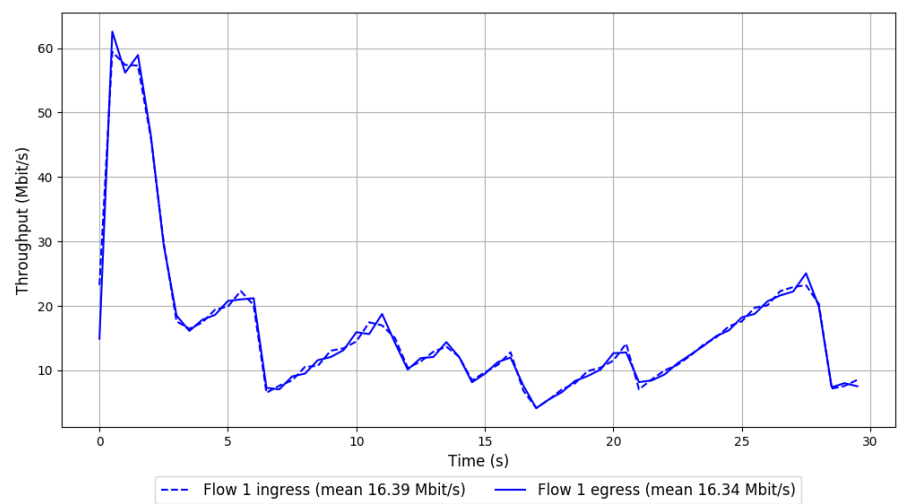
Run 7: Report of TCP Vegas — Data Link

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```
Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 08:11:39
End at: 2018-04-24 08:12:09
Local clock offset: -0.243 ms
Remote clock offset: -0.642 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.66 Mbit/s
95th percentile per-packet one-way delay: 55.971 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 10.66 Mbit/s
95th percentile per-packet one-way delay: 55.971 ms
Loss rate: 0.92%
```

Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 08:34:56
End at: 2018-04-24 08:35:26
Local clock offset: -0.292 ms
Remote clock offset: -2.507 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.69 Mbit/s
95th percentile per-packet one-way delay: 47.093 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 20.69 Mbit/s
95th percentile per-packet one-way delay: 47.093 ms
Loss rate: 0.68%
```
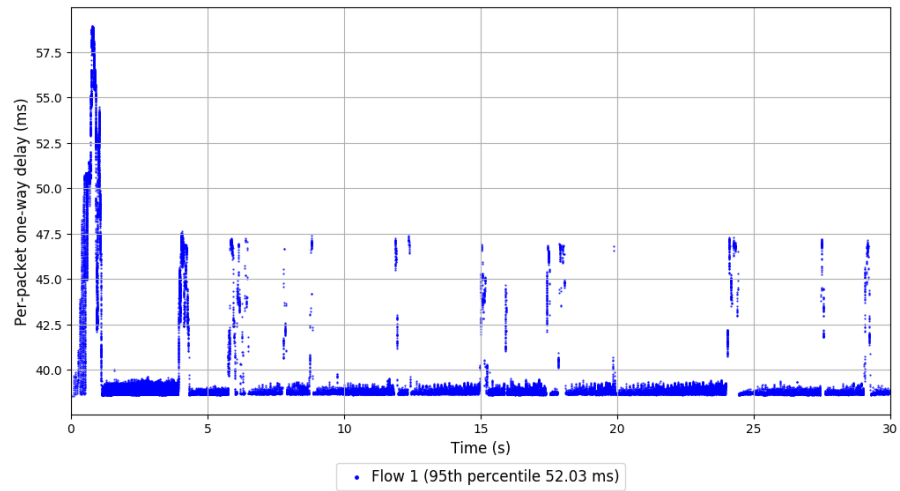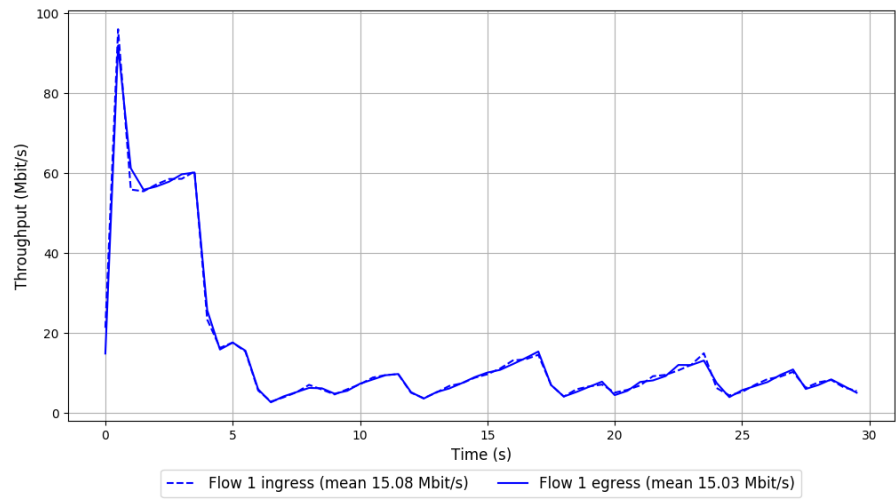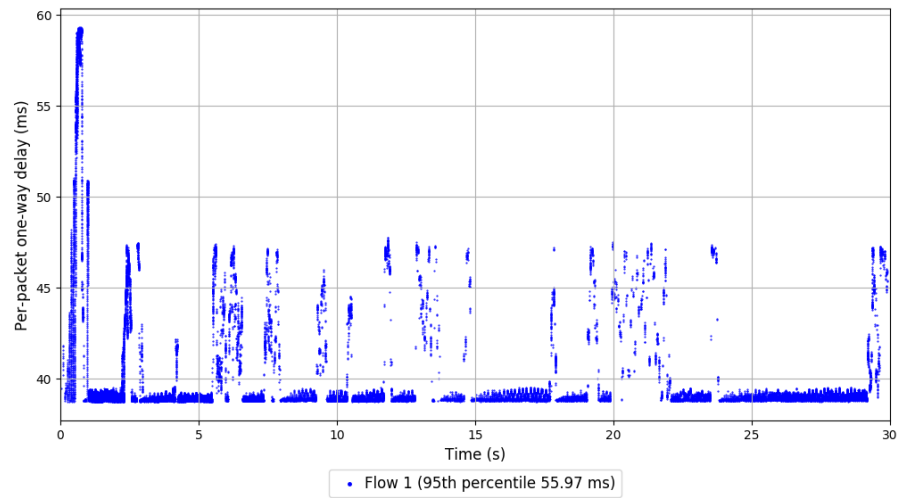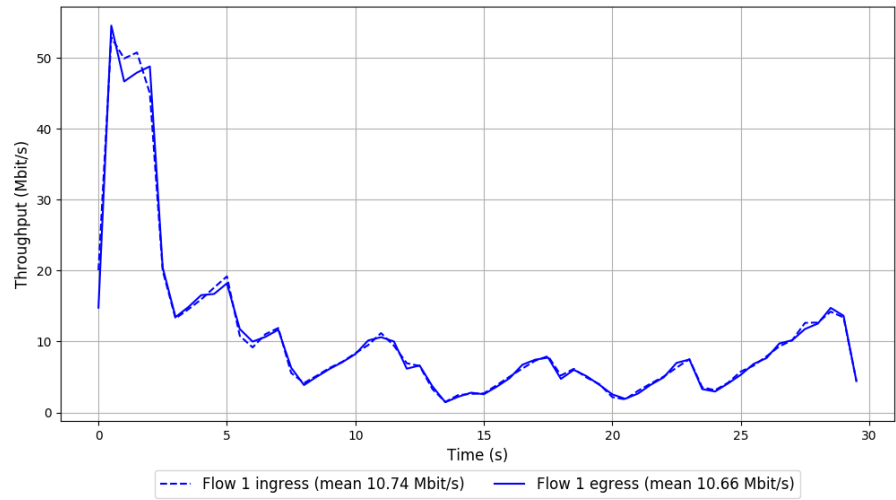
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 20.78 Mbit/s)   Flow 1 egress (mean 20.69 Mbit/s)

Flow 1 (95th percentile 47.09 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 08:58:47
End at: 2018-04-24 08:59:17
Local clock offset: -0.567 ms
Remote clock offset: -1.88 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.28 Mbit/s
95th percentile per-packet one-way delay: 48.448 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 27.28 Mbit/s
95th percentile per-packet one-way delay: 48.448 ms
Loss rate: 0.34%
```
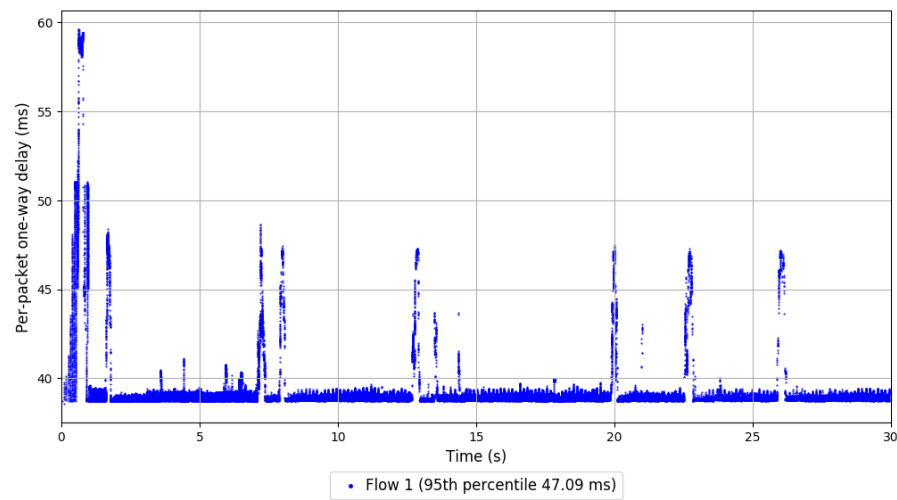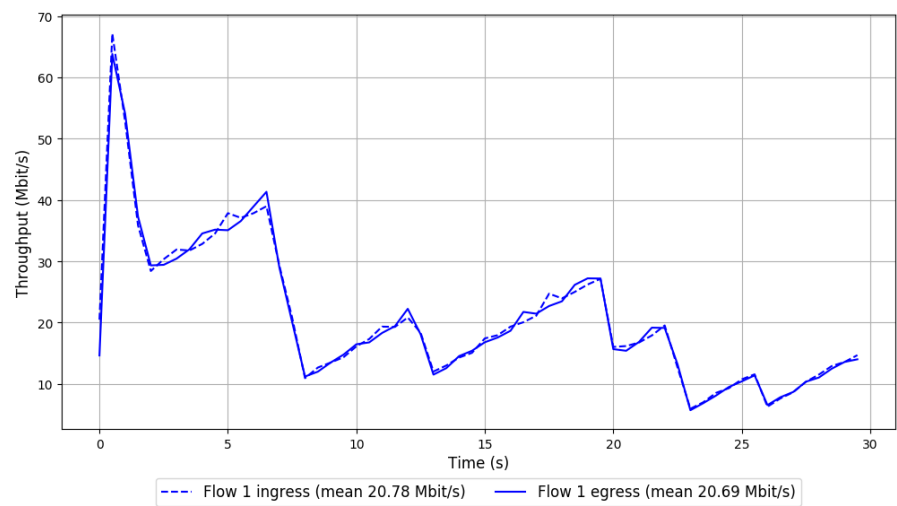
Run 10: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 27.32 Mbit/s)   Flow 1 egress (mean 27.28 Mbit/s)

Flow 1 (95th percentile 48.45 ms)

```
Run 1: Statistics of Verus

Start at: 2018-04-24 05:25:26
End at: 2018-04-24 05:25:56
Local clock offset: -4.967 ms
Remote clock offset: -0.75 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.70 Mbit/s
95th percentile per-packet one-way delay: 56.940 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 52.70 Mbit/s
95th percentile per-packet one-way delay: 56.940 ms
Loss rate: 1.81%
```

Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2018-04-24 05:49:18
End at: 2018-04-24 05:49:48
Local clock offset: -7.063 ms
Remote clock offset: -4.009 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.30 Mbit/s
95th percentile per-packet one-way delay: 57.399 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 87.30 Mbit/s
95th percentile per-packet one-way delay: 57.399 ms
Loss rate: 0.85%
```
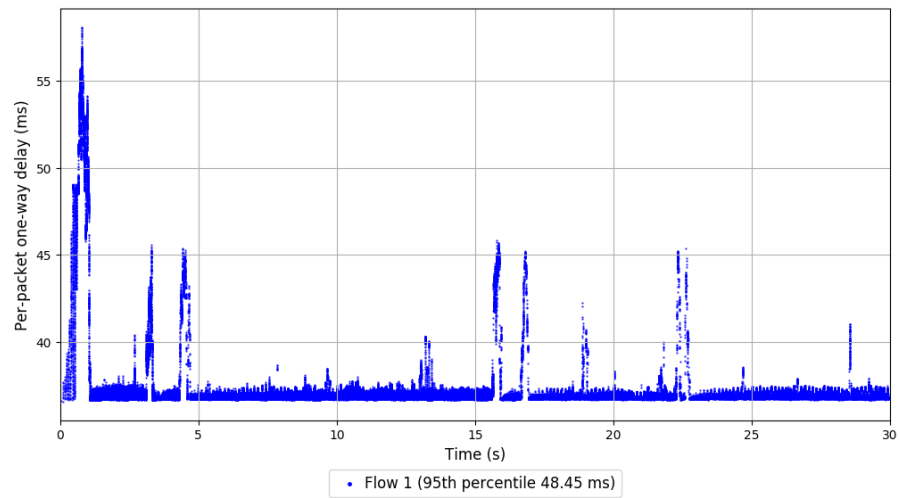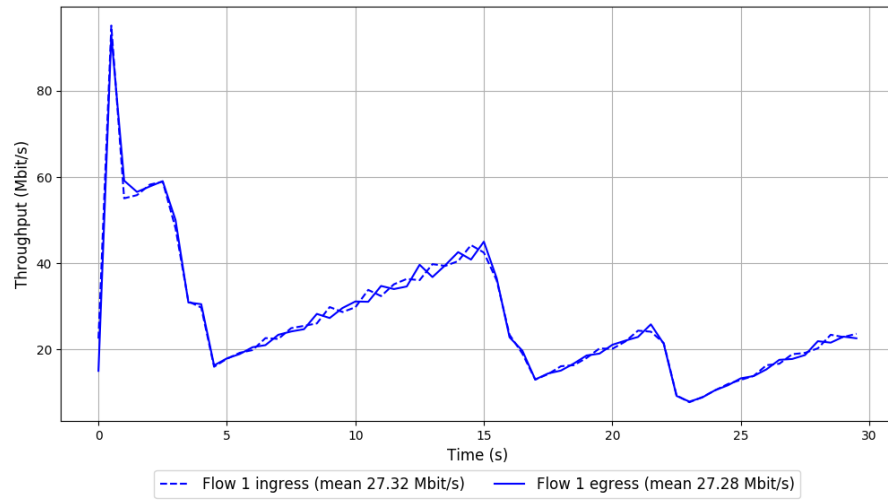
Run 2: Report of Verus — Data Link

Flow 1 ingress (mean 87.83 Mbit/s) — Flow 1 egress (mean 87.30 Mbit/s)

· Flow 1 (95th percentile 57.40 ms)

```
Run 3: Statistics of Verus

Start at: 2018-04-24 06:12:24
End at: 2018-04-24 06:12:54
Local clock offset: -13.333 ms
Remote clock offset: 1.659 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 55.882 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 87.12 Mbit/s
95th percentile per-packet one-way delay: 55.882 ms
Loss rate: 0.76%
```
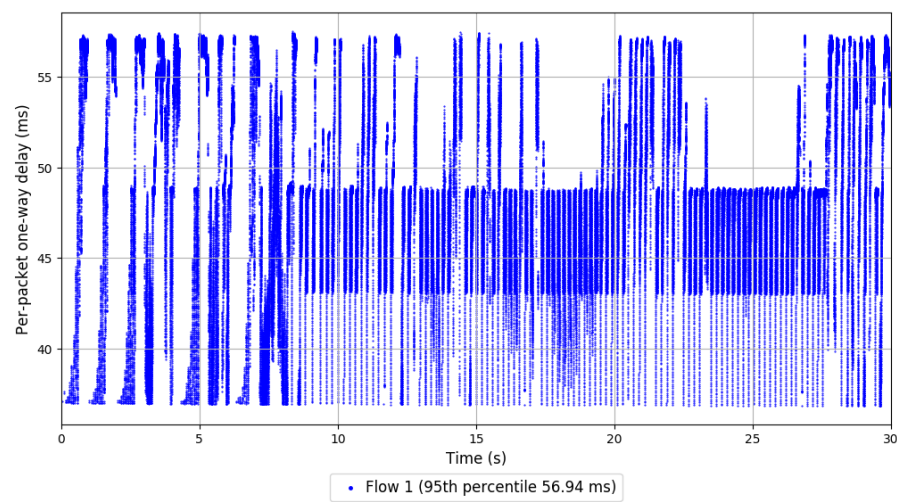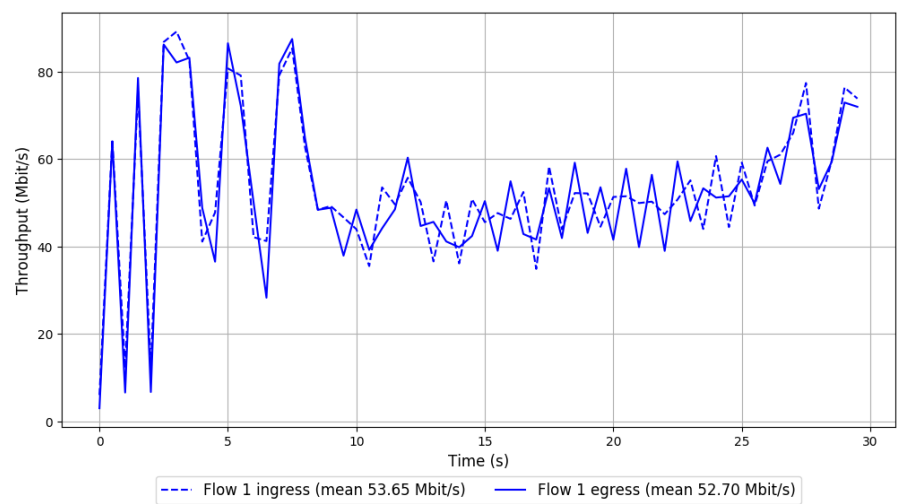
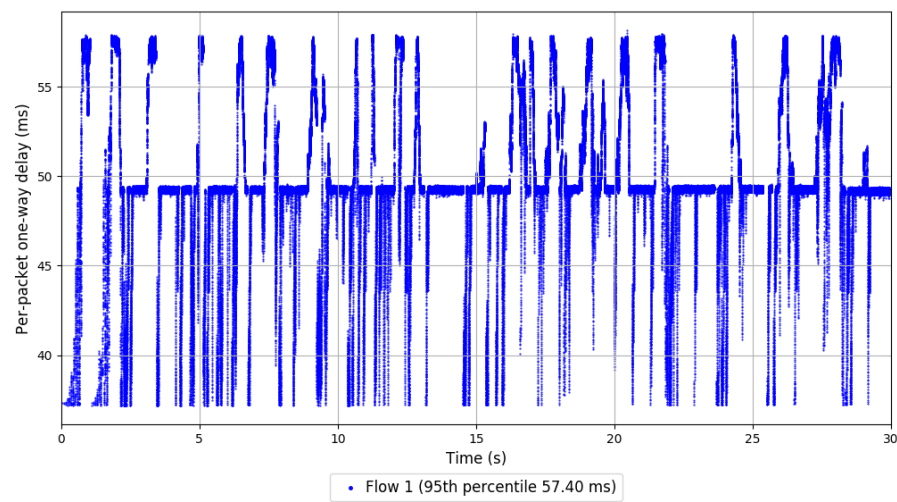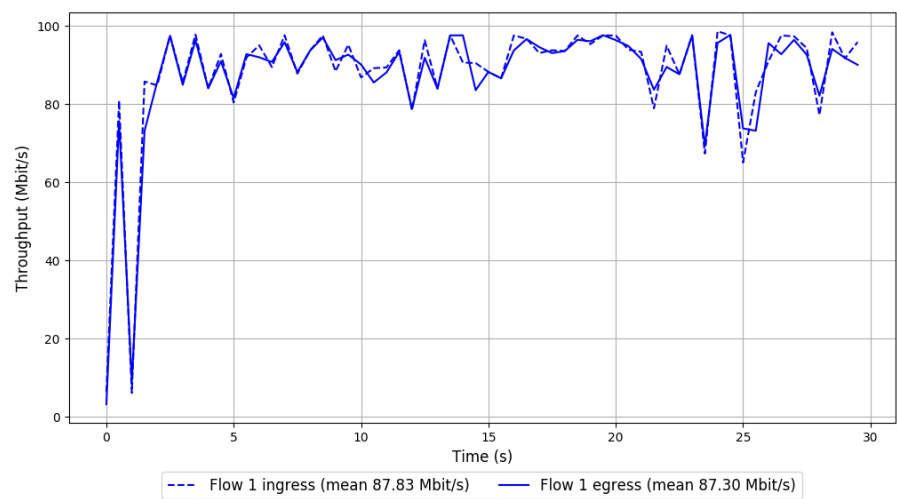## Run 3: Report of Verus — Data Link

Flow 1 ingress (mean 87.69 Mbit/s)   —— Flow 1 egress (mean 87.12 Mbit/s)

• Flow 1 (95th percentile 55.88 ms)

```
Run 4: Statistics of Verus

Start at: 2018-04-24 06:35:06
End at: 2018-04-24 06:35:36
Local clock offset: -5.472 ms
Remote clock offset: 2.696 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 56.603 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 87.31 Mbit/s
95th percentile per-packet one-way delay: 56.603 ms
Loss rate: 0.78%
```
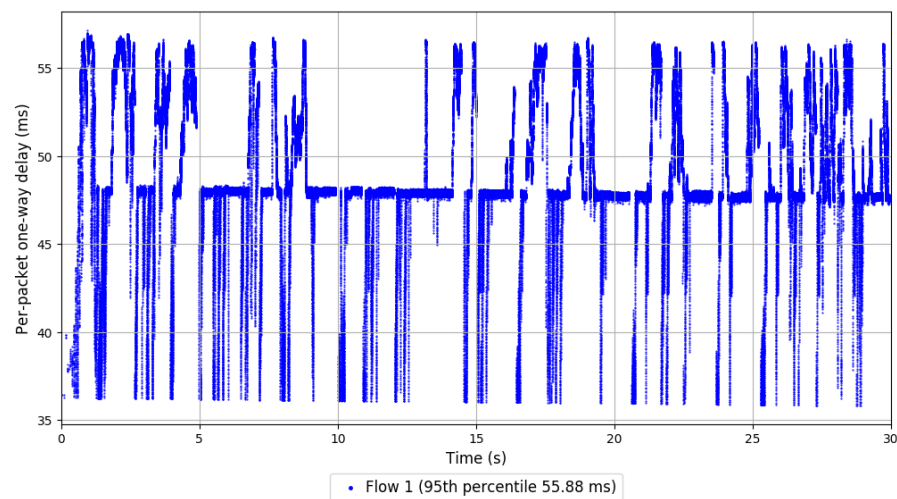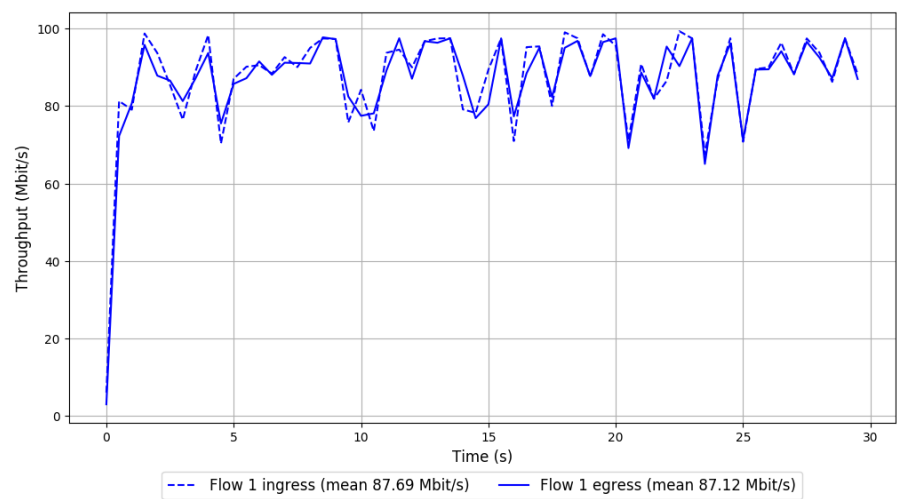
Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 87.84 Mbit/s)   Flow 1 egress (mean 87.31 Mbit/s)

· Flow 1 (95th percentile 56.60 ms)

```
Run 5: Statistics of Verus

Start at: 2018-04-24 06:57:54
End at: 2018-04-24 06:58:24
Local clock offset: -2.706 ms
Remote clock offset: -2.905 ms


# Below is generated by plot.py at 2018-04-24 13:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.89 Mbit/s
95th percentile per-packet one-way delay: 56.683 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 80.89 Mbit/s
95th percentile per-packet one-way delay: 56.683 ms
Loss rate: 0.91%
```

Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 81.44 Mbit/s)   Flow 1 egress (mean 80.89 Mbit/s)

• Flow 1 (95th percentile 56.68 ms)

```
Run 6: Statistics of Verus

Start at: 2018-04-24 07:20:51
End at: 2018-04-24 07:21:22
Local clock offset: -2.797 ms
Remote clock offset: -2.024 ms


# Below is generated by plot.py at 2018-04-24 13:03:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.45 Mbit/s
95th percentile per-packet one-way delay: 58.523 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 88.45 Mbit/s
95th percentile per-packet one-way delay: 58.523 ms
Loss rate: 0.91%
```
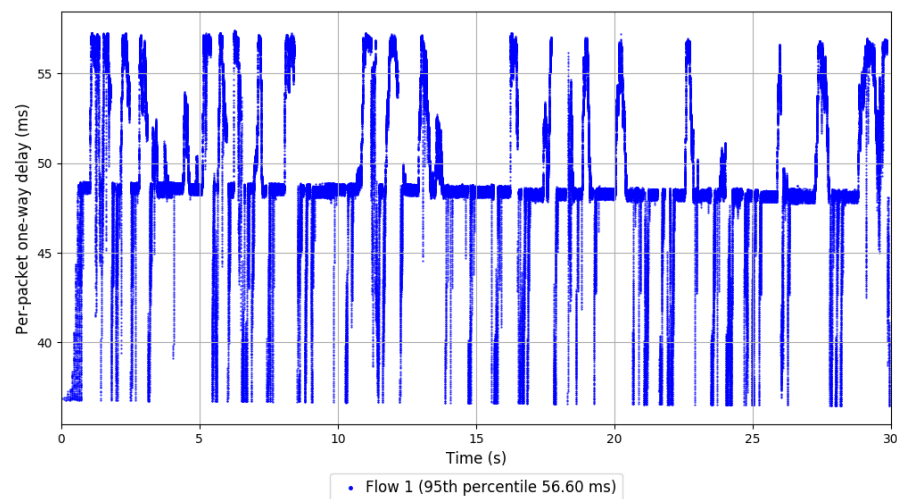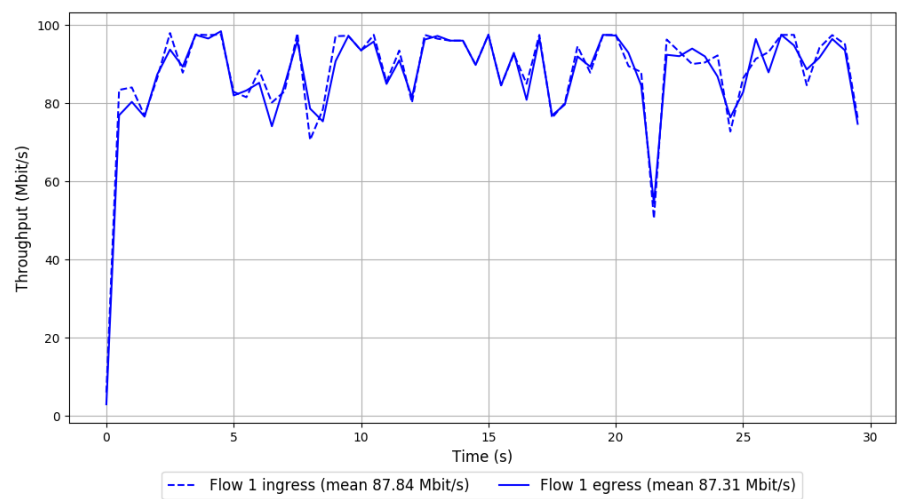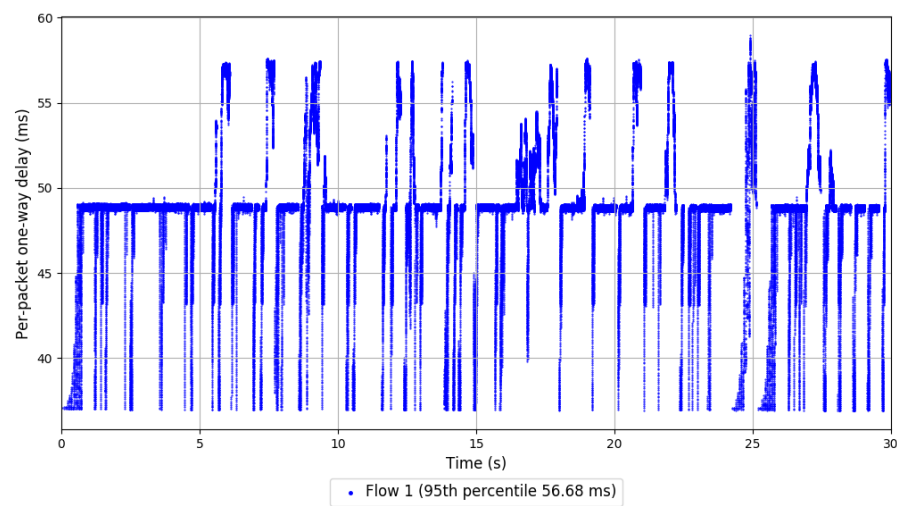
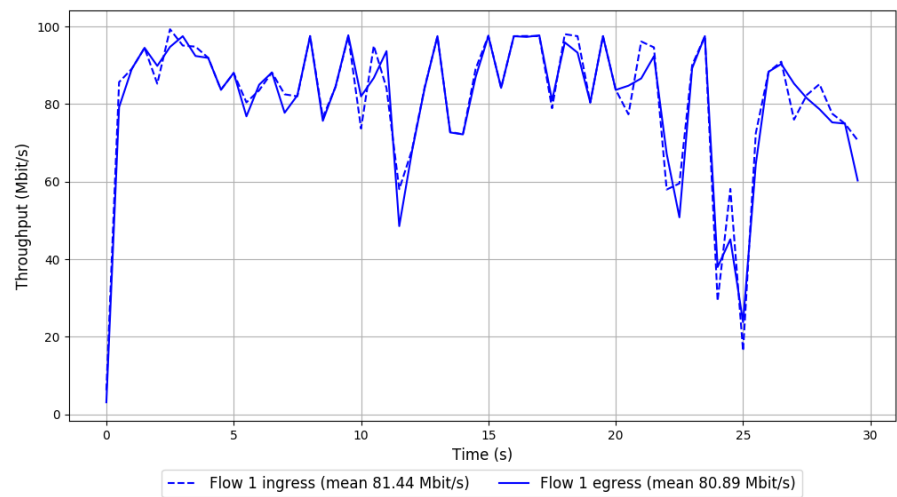## Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 89.04 Mbit/s)　　Flow 1 egress (mean 88.45 Mbit/s)

• Flow 1 (95th percentile 58.52 ms)

```
Run 7: Statistics of Verus

Start at: 2018-04-24 07:44:16
End at: 2018-04-24 07:44:46
Local clock offset: -0.527 ms
Remote clock offset: -0.997 ms


# Below is generated by plot.py at 2018-04-24 13:04:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 56.939 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 56.939 ms
Loss rate: 0.80%
```

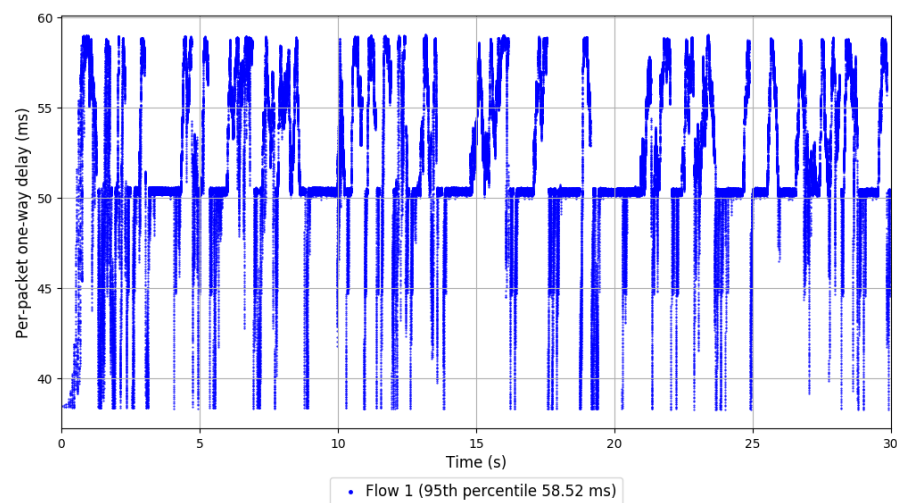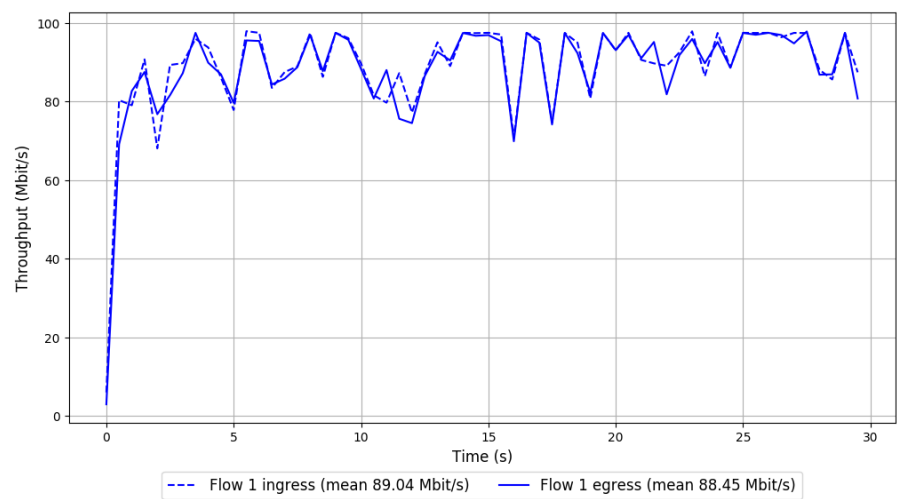# Run 7: Report of Verus — Data Link

Flow 1 ingress (mean 88.87 Mbit/s)　　Flow 1 egress (mean 88.37 Mbit/s)

Flow 1 (95th percentile 56.94 ms)

```
Run 8: Statistics of Verus

Start at: 2018-04-24 08:10:12
End at: 2018-04-24 08:10:42
Local clock offset: -0.565 ms
Remote clock offset: -0.638 ms


# Below is generated by plot.py at 2018-04-24 13:04:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.64 Mbit/s
95th percentile per-packet one-way delay: 58.435 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 72.64 Mbit/s
95th percentile per-packet one-way delay: 58.435 ms
Loss rate: 0.94%
```

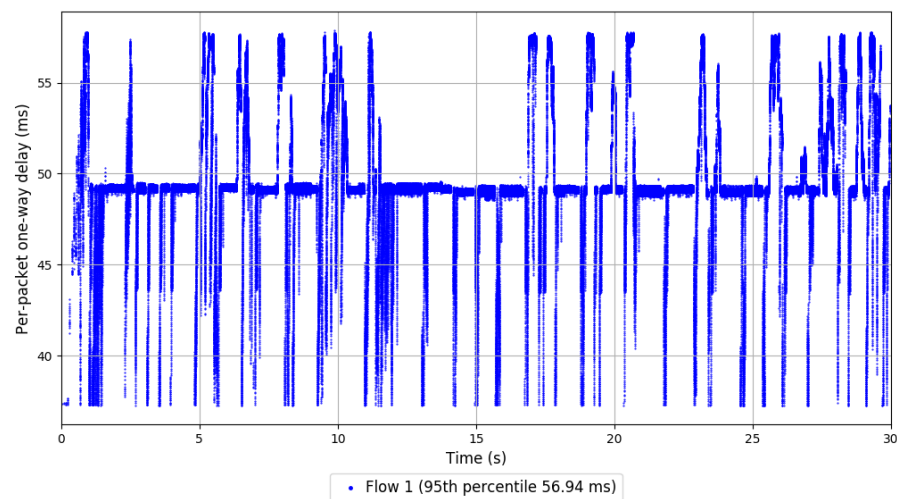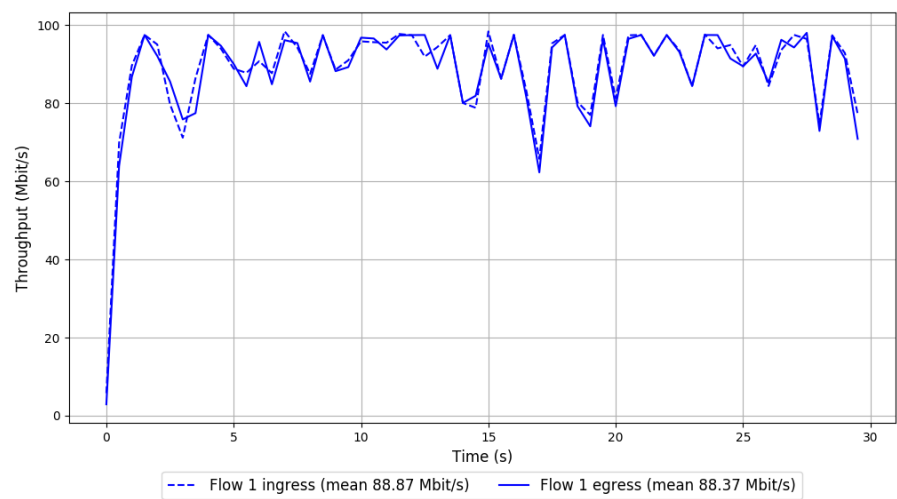# Run 8: Report of Verus — Data Link

Flow 1 ingress (mean 73.10 Mbit/s) ----   Flow 1 egress (mean 72.64 Mbit/s) ——

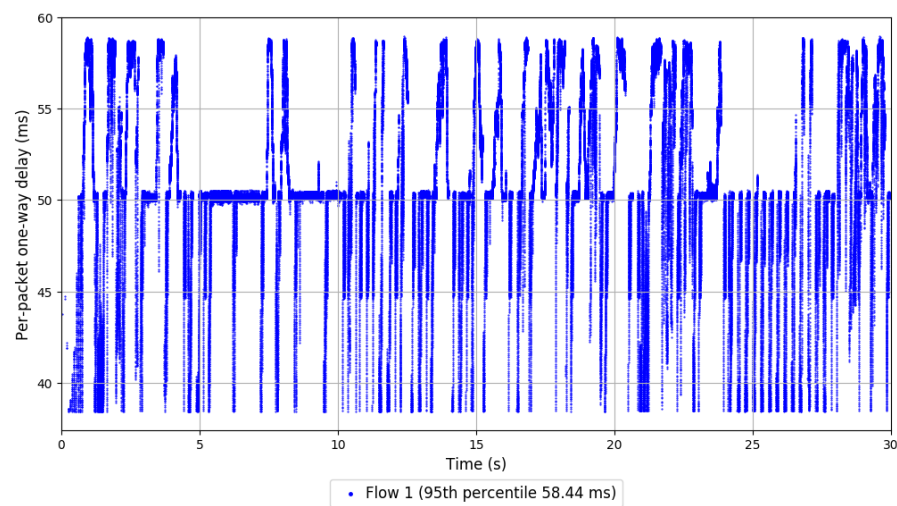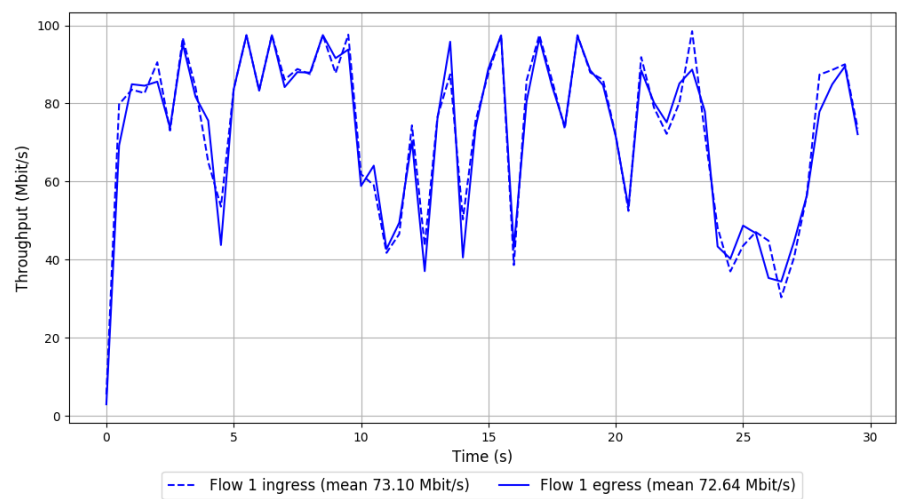

• Flow 1 (95th percentile 58.44 ms)

```
Run 9: Statistics of Verus

Start at: 2018-04-24 08:33:34
End at: 2018-04-24 08:34:04
Local clock offset: -0.595 ms
Remote clock offset: -2.427 ms


# Below is generated by plot.py at 2018-04-24 13:04:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.72 Mbit/s
95th percentile per-packet one-way delay: 57.881 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 88.72 Mbit/s
95th percentile per-packet one-way delay: 57.881 ms
Loss rate: 0.64%
```

Run 9: Report of Verus — Data Link

Flow 1 ingress (mean 89.07 Mbit/s)   Flow 1 egress (mean 88.72 Mbit/s)
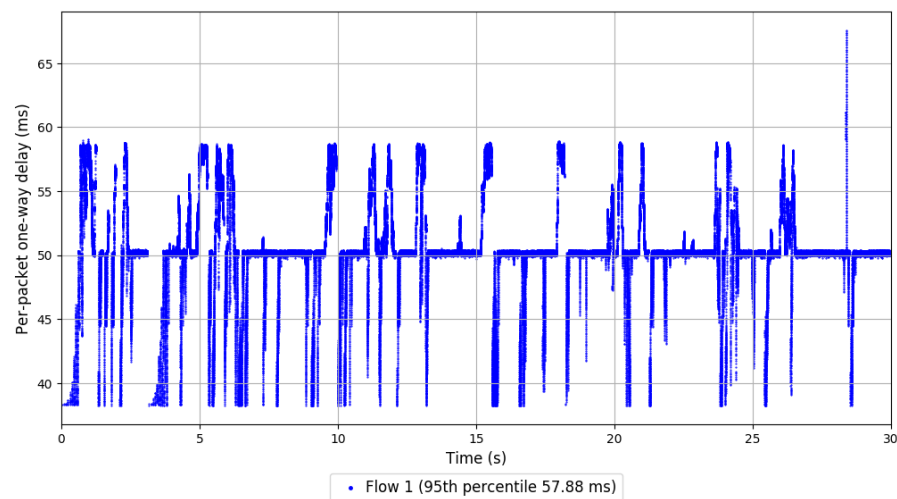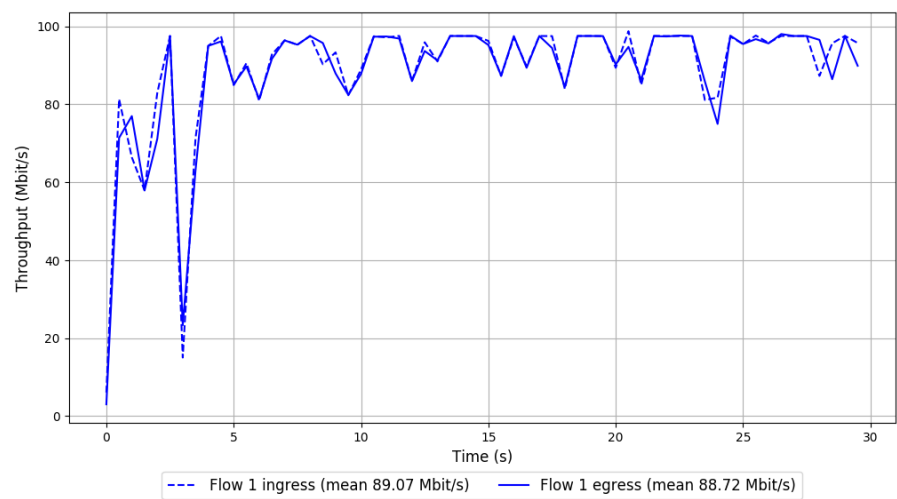

Flow 1 (95th percentile 57.88 ms)

```
Run 10: Statistics of Verus

Start at: 2018-04-24 08:57:24
End at: 2018-04-24 08:57:54
Local clock offset: -0.56 ms
Remote clock offset: -2.331 ms


# Below is generated by plot.py at 2018-04-24 13:04:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.25 Mbit/s
95th percentile per-packet one-way delay: 56.690 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 90.25 Mbit/s
95th percentile per-packet one-way delay: 56.690 ms
Loss rate: 0.55%
```
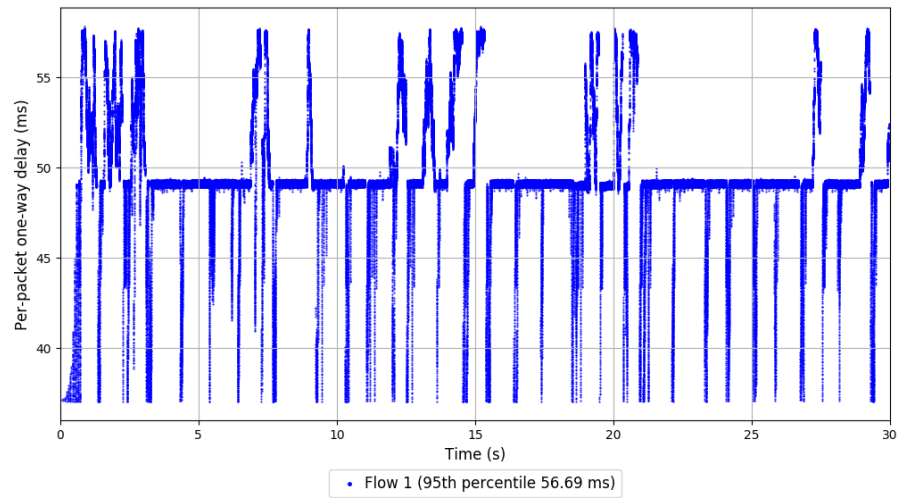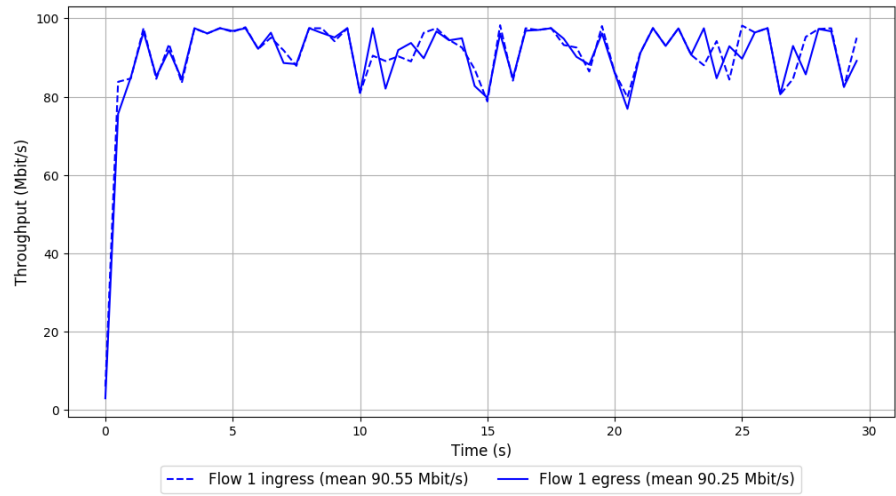
Run 10: Report of Verus — Data Link

Flow 1 ingress (mean 90.55 Mbit/s)   Flow 1 egress (mean 90.25 Mbit/s)

Flow 1 (95th percentile 56.69 ms)

```
Run 1: Statistics of Copa

Start at: 2018-04-24 05:28:10
End at: 2018-04-24 05:28:40
Local clock offset: -5.317 ms
Remote clock offset: -1.702 ms


# Below is generated by plot.py at 2018-04-24 13:06:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.08 Mbit/s
95th percentile per-packet one-way delay: 55.171 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 89.08 Mbit/s
95th percentile per-packet one-way delay: 55.171 ms
Loss rate: 2.06%
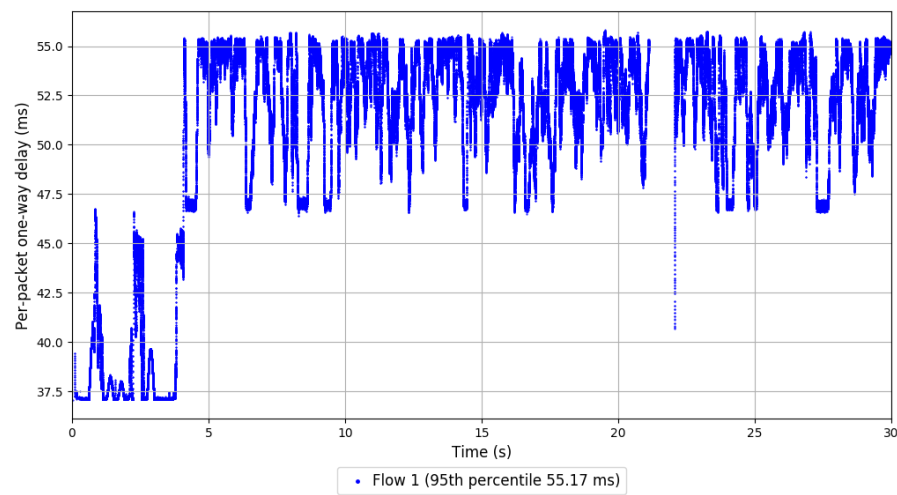```

Run 1: Report of Copa — Data Link

```
Run 2: Statistics of Copa

Start at: 2018-04-24 05:52:06
End at: 2018-04-24 05:52:36
Local clock offset: -7.526 ms
Remote clock offset: -3.564 ms


# Below is generated by plot.py at 2018-04-24 13:06:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.23 Mbit/s
95th percentile per-packet one-way delay: 56.078 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 88.23 Mbit/s
95th percentile per-packet one-way delay: 56.078 ms
Loss rate: 0.82%
```

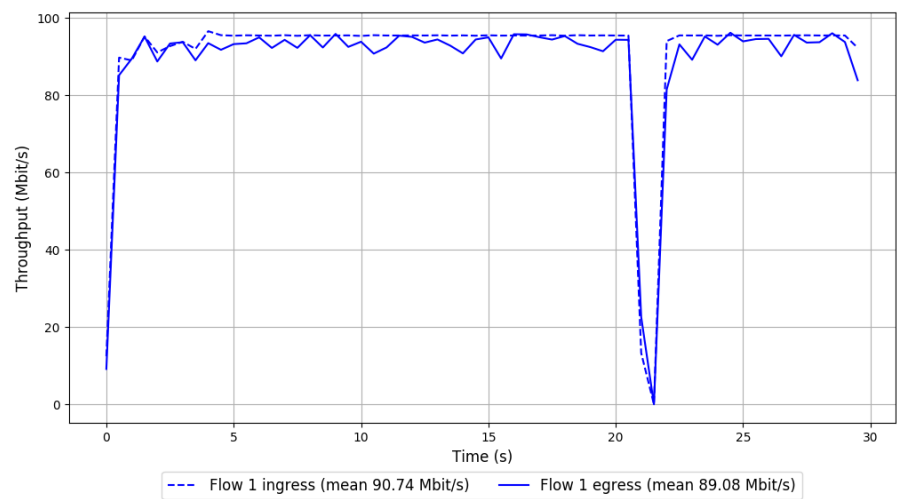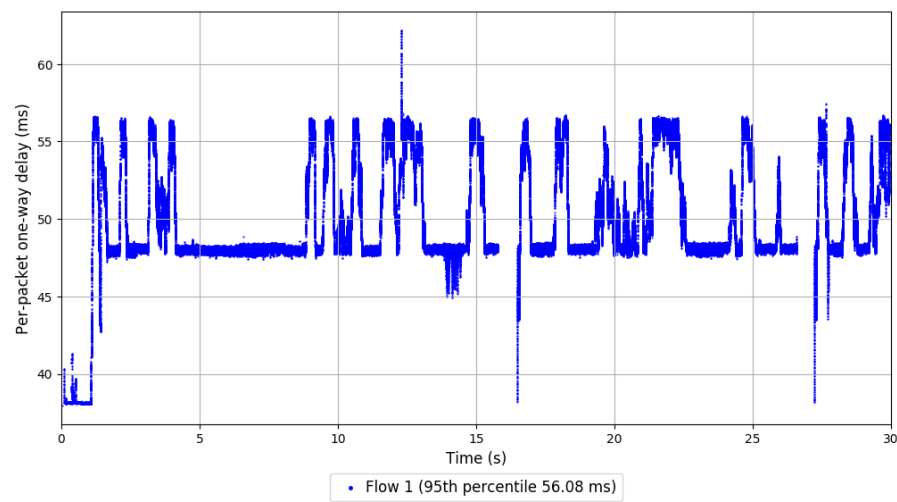Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2018-04-24 06:15:04
End at: 2018-04-24 06:15:34
Local clock offset: -10.263 ms
Remote clock offset: 2.167 ms


# Below is generated by plot.py at 2018-04-24 13:06:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.82 Mbit/s
95th percentile per-packet one-way delay: 53.997 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 88.82 Mbit/s
95th percentile per-packet one-way delay: 53.997 ms
Loss rate: 0.69%
```
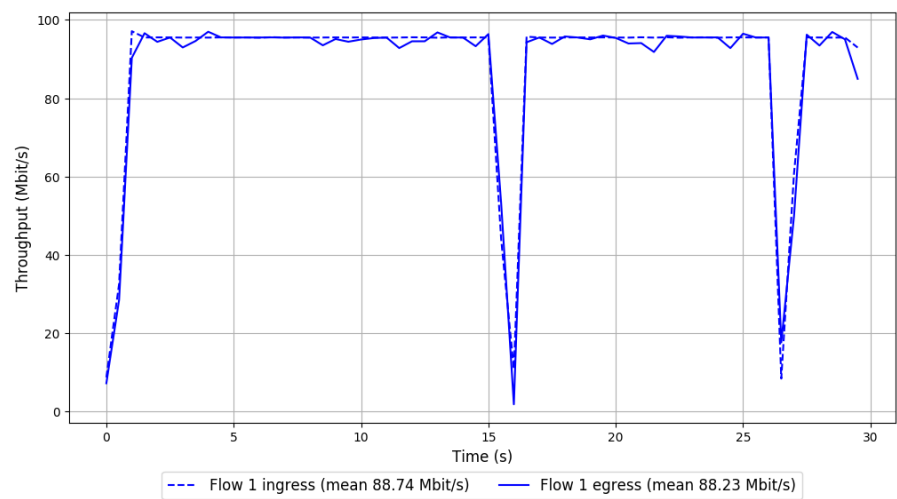
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 89.29 Mbit/s)　　Flow 1 egress (mean 88.82 Mbit/s)

Flow 1 (95th percentile 54.00 ms)

```
Run 4: Statistics of Copa

Start at: 2018-04-24 06:37:46
End at: 2018-04-24 06:38:16
Local clock offset: -5.781 ms
Remote clock offset: 0.723 ms


# Below is generated by plot.py at 2018-04-24 13:06:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.20 Mbit/s
95th percentile per-packet one-way delay: 54.785 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 88.20 Mbit/s
95th percentile per-packet one-way delay: 54.785 ms
Loss rate: 0.78%
```
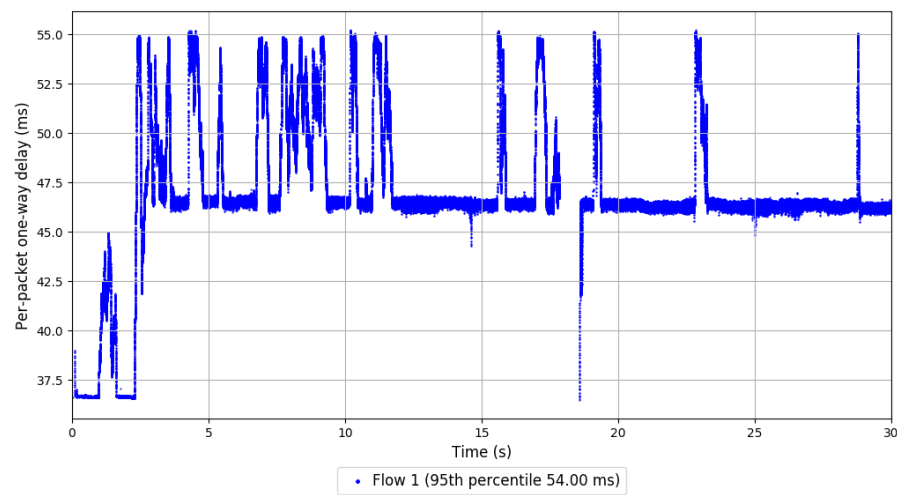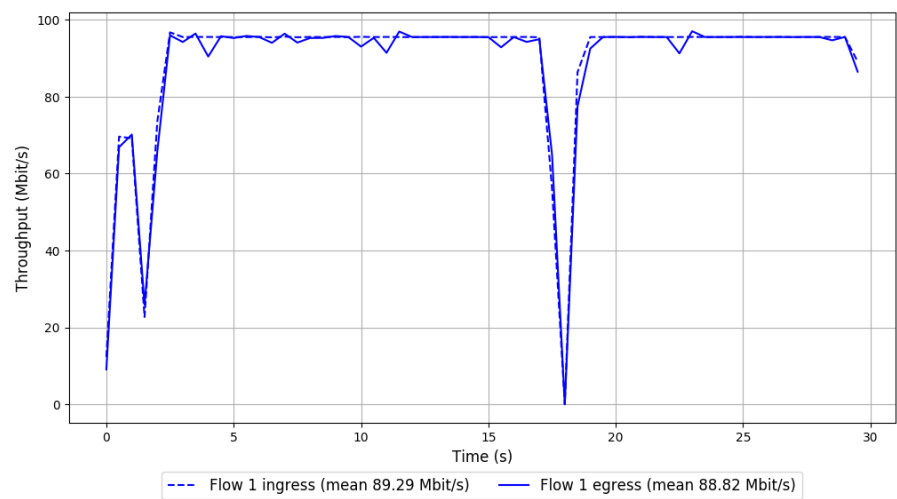
Run 4: Report of Copa — Data Link

```
Run 5: Statistics of Copa

Start at: 2018-04-24 07:00:38
End at: 2018-04-24 07:01:08
Local clock offset: -2.473 ms
Remote clock offset: -2.587 ms


# Below is generated by plot.py at 2018-04-24 13:06:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.65 Mbit/s
95th percentile per-packet one-way delay: 55.771 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 89.65 Mbit/s
95th percentile per-packet one-way delay: 55.771 ms
Loss rate: 0.92%
```

Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: 2018-04-24 07:23:39
End at: 2018-04-24 07:24:09
Local clock offset: -2.054 ms
Remote clock offset: -1.973 ms


# Below is generated by plot.py at 2018-04-24 13:07:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 56.580 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 90.62 Mbit/s
95th percentile per-packet one-way delay: 56.580 ms
Loss rate: 0.79%
```
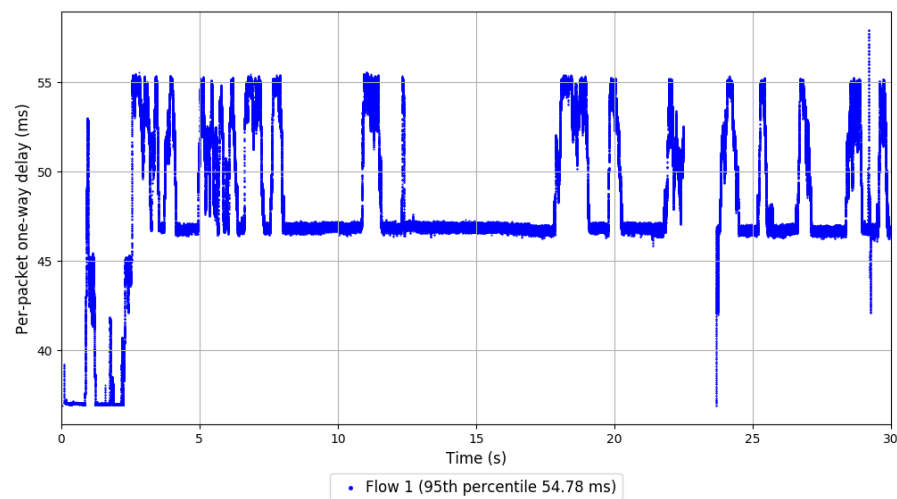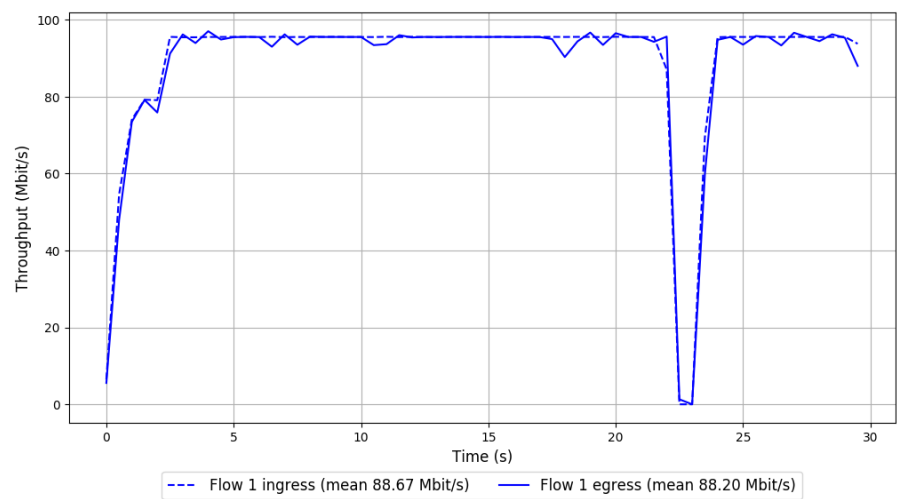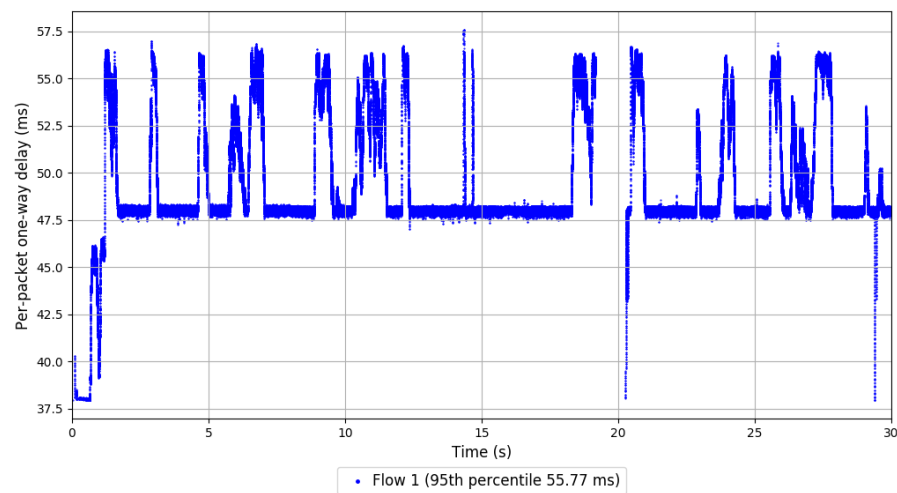
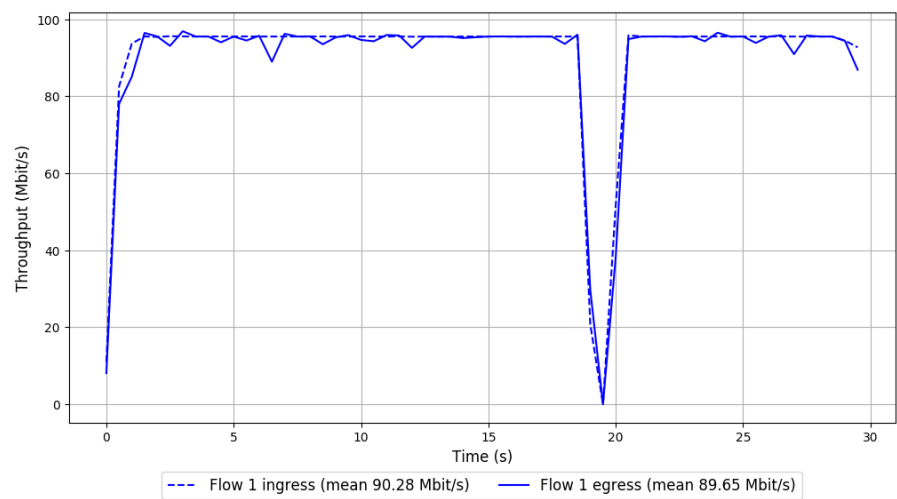Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 91.11 Mbit/s)   Flow 1 egress (mean 90.62 Mbit/s)

Flow 1 (95th percentile 56.58 ms)

```
Run 7: Statistics of Copa

Start at: 2018-04-24 07:46:57
End at: 2018-04-24 07:47:27
Local clock offset: -0.548 ms
Remote clock offset: -1.07 ms


# Below is generated by plot.py at 2018-04-24 13:07:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 55.252 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 90.03 Mbit/s
95th percentile per-packet one-way delay: 55.252 ms
Loss rate: 0.67%
```
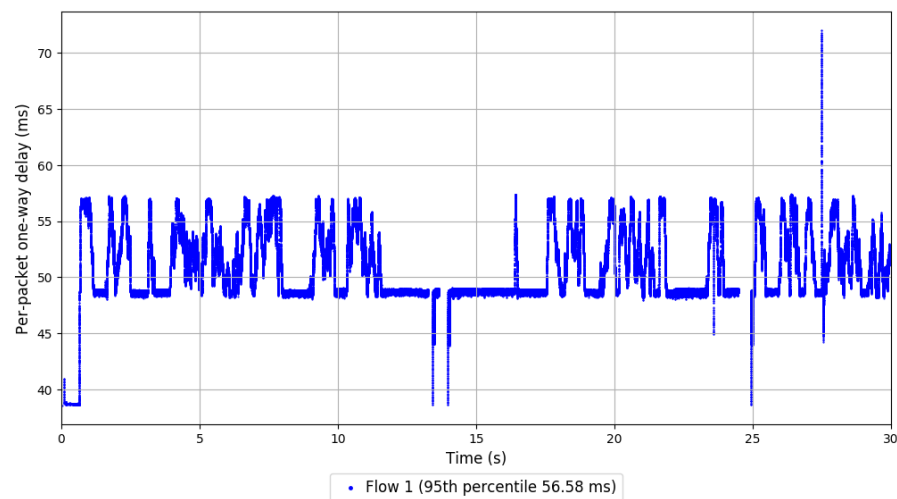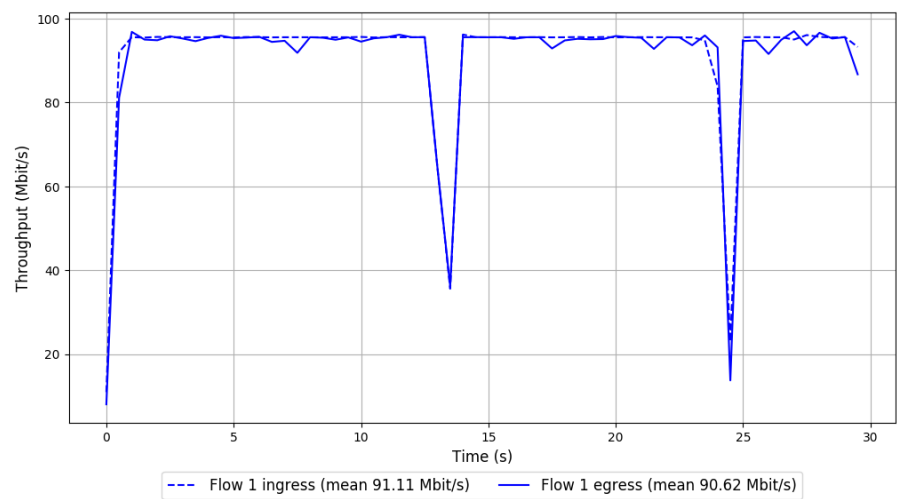
Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: 2018-04-24 08:12:57
End at: 2018-04-24 08:13:27
Local clock offset: -0.42 ms
Remote clock offset: -0.507 ms


# Below is generated by plot.py at 2018-04-24 13:07:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 55.164 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 55.164 ms
Loss rate: 0.65%
```

Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 86.11 Mbit/s) — — — Flow 1 egress (mean 85.50 Mbit/s)

• Flow 1 (95th percentile 55.16 ms)

```
Run 9: Statistics of Copa

Start at: 2018-04-24 08:36:19
End at: 2018-04-24 08:36:50
Local clock offset: -0.273 ms
Remote clock offset: -2.487 ms


# Below is generated by plot.py at 2018-04-24 13:08:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 54.851 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 90.02 Mbit/s
95th percentile per-packet one-way delay: 54.851 ms
Loss rate: 0.63%
```
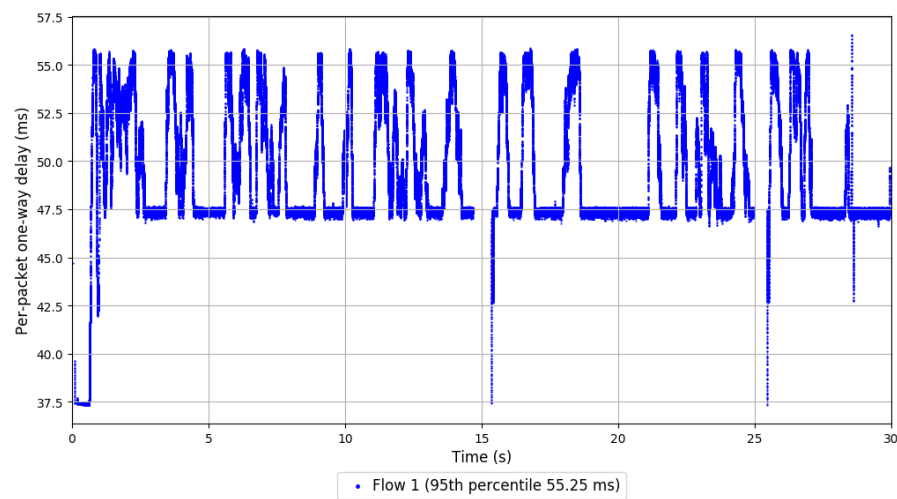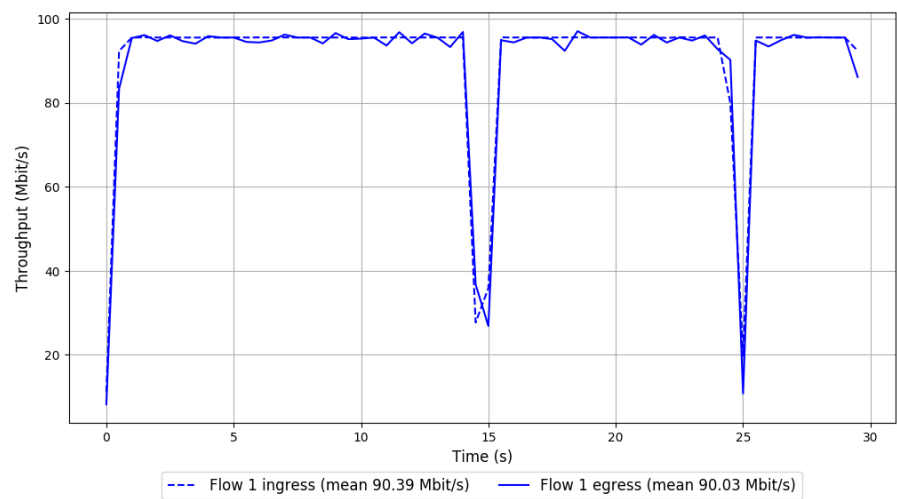
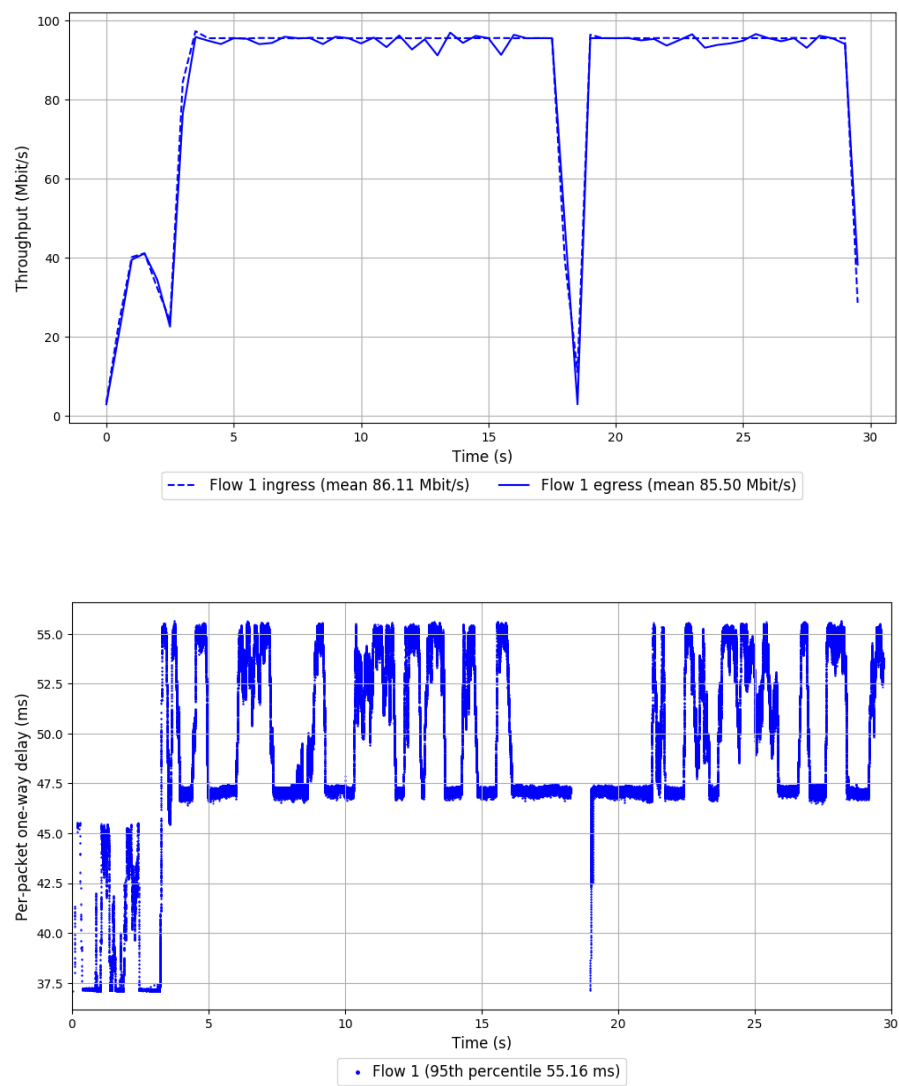# Run 9: Report of Copa — Data Link

```
Run 10: Statistics of Copa

Start at: 2018-04-24 09:00:05
End at: 2018-04-24 09:00:35
Local clock offset: -0.545 ms
Remote clock offset: -1.875 ms


# Below is generated by plot.py at 2018-04-24 13:08:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.82 Mbit/s
95th percentile per-packet one-way delay: 54.367 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 90.82 Mbit/s
95th percentile per-packet one-way delay: 54.367 ms
Loss rate: 0.35%
```

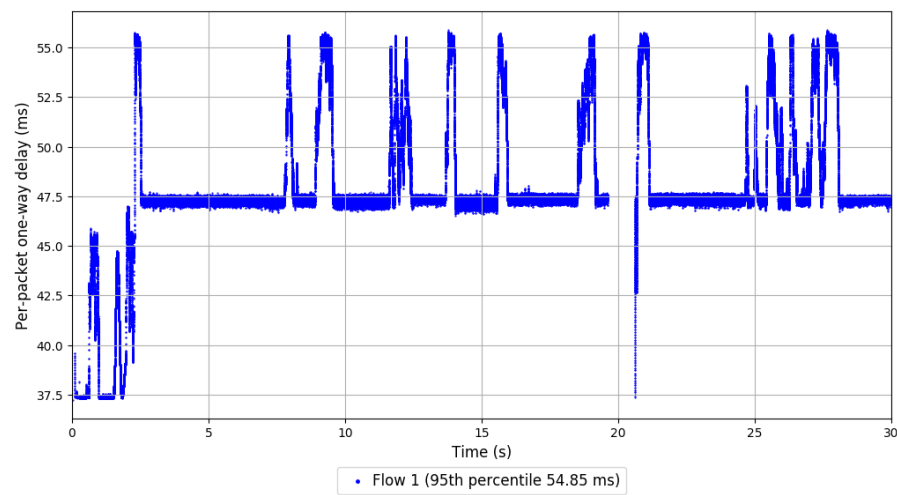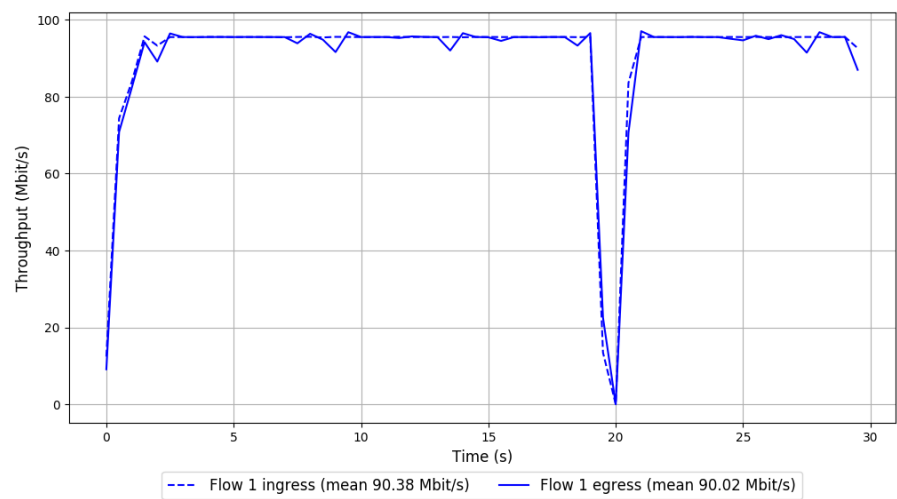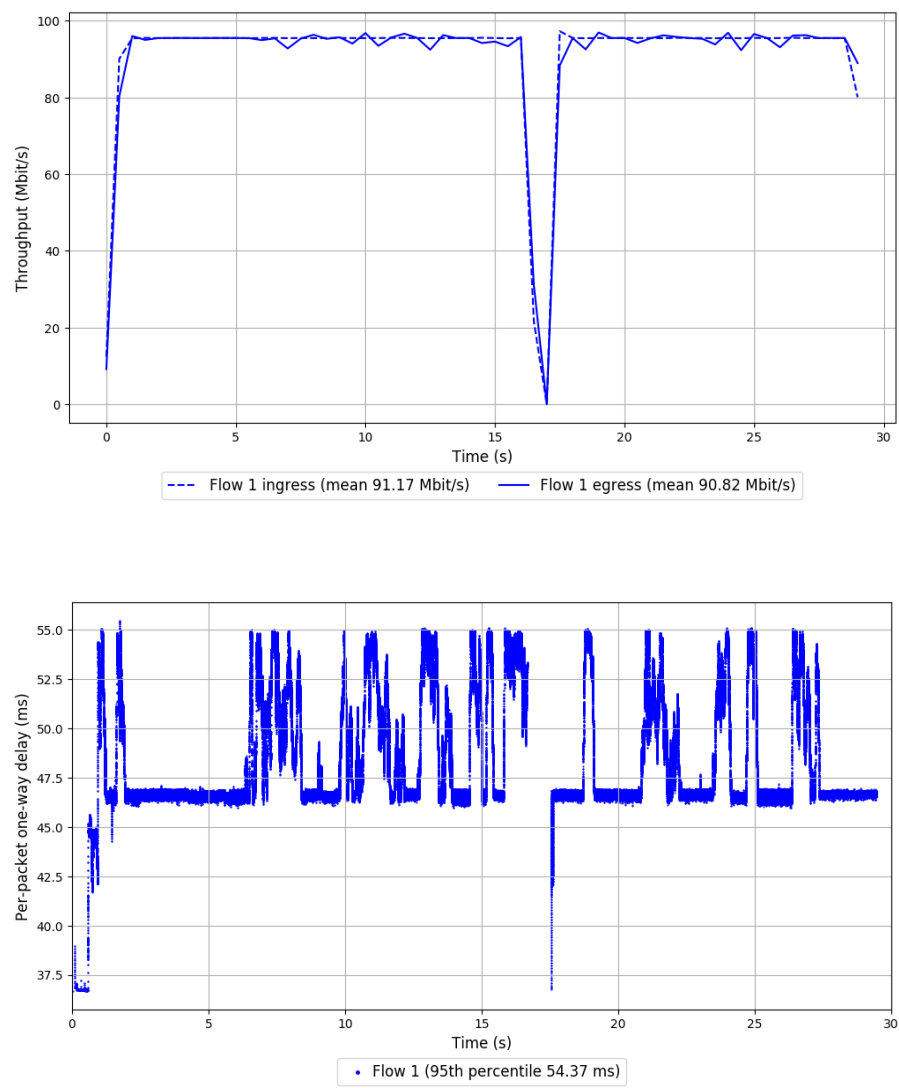Run 10: Report of Copa — Data Link

```
Run 1: Statistics of FillP

Start at: 2018-04-24 05:19:50
End at: 2018-04-24 05:20:20
Local clock offset: -6.109 ms
Remote clock offset: -0.291 ms


# Below is generated by plot.py at 2018-04-24 13:08:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 55.568 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 55.568 ms
Loss rate: 1.02%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 94.54 Mbit/s)   Flow 1 egress (mean 93.81 Mbit/s)

Flow 1 (95th percentile 55.57 ms)

```
Run 2: Statistics of FillP

Start at: 2018-04-24 05:43:39
End at: 2018-04-24 05:44:09
Local clock offset: -7.122 ms
Remote clock offset: -3.857 ms


# Below is generated by plot.py at 2018-04-24 13:08:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 53.969 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 92.90 Mbit/s
95th percentile per-packet one-way delay: 53.969 ms
Loss rate: 0.72%
```

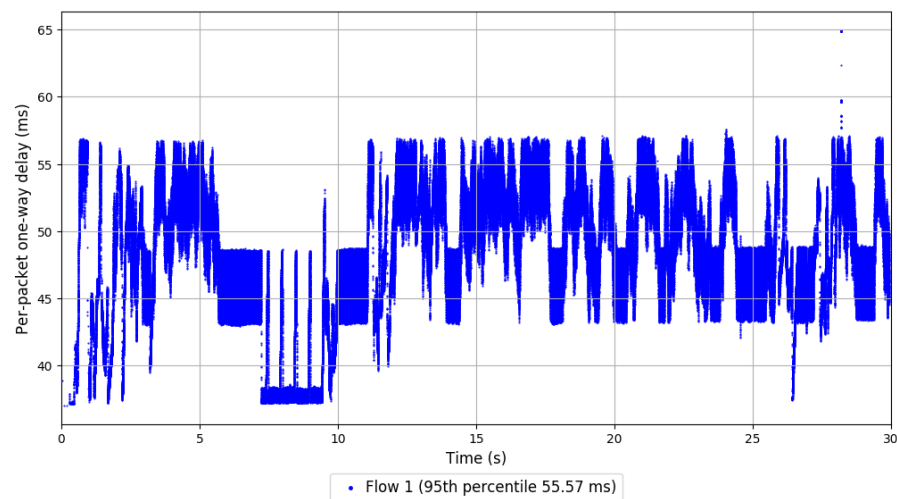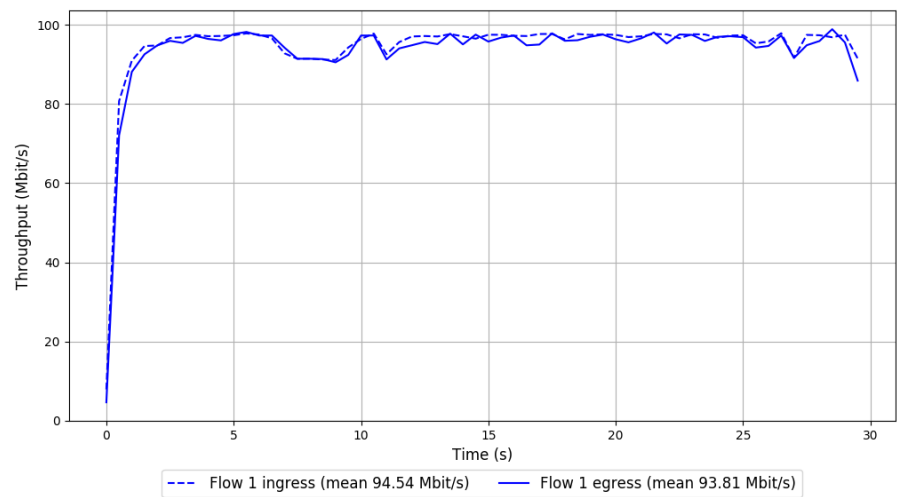Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2018-04-24 06:07:02
End at: 2018-04-24 06:07:32
Local clock offset: -11.745 ms
Remote clock offset: 0.183 ms


# Below is generated by plot.py at 2018-04-24 13:08:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 52.263 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 92.50 Mbit/s
95th percentile per-packet one-way delay: 52.263 ms
Loss rate: 0.53%
```

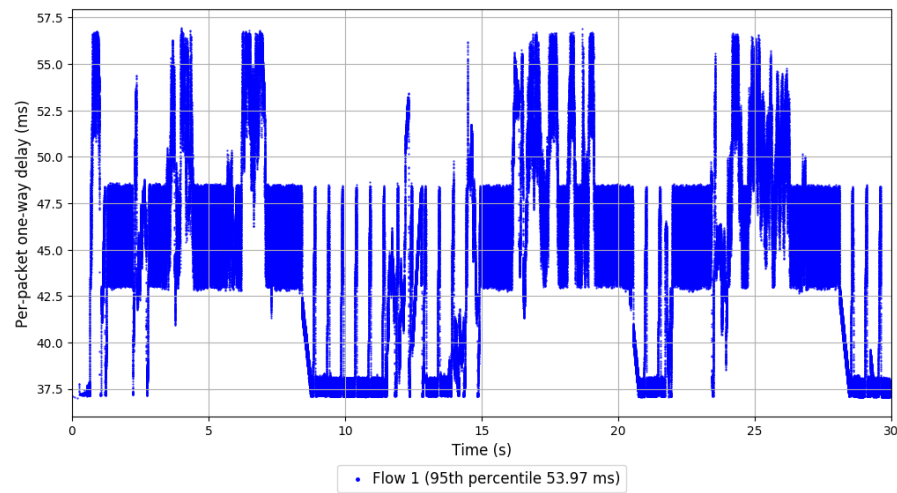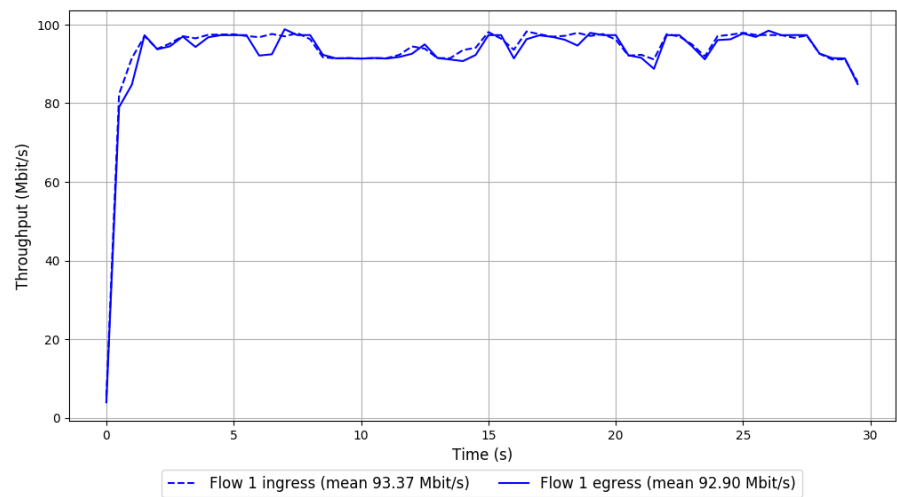# Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 92.78 Mbit/s)   Flow 1 egress (mean 92.50 Mbit/s)

Flow 1 (95th percentile 52.26 ms)

```
Run 4: Statistics of FillP

Start at: 2018-04-24 06:29:45
End at: 2018-04-24 06:30:15
Local clock offset: -5.316 ms
Remote clock offset: 4.655 ms


# Below is generated by plot.py at 2018-04-24 13:08:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 54.465 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 94.09 Mbit/s
95th percentile per-packet one-way delay: 54.465 ms
Loss rate: 1.05%
```
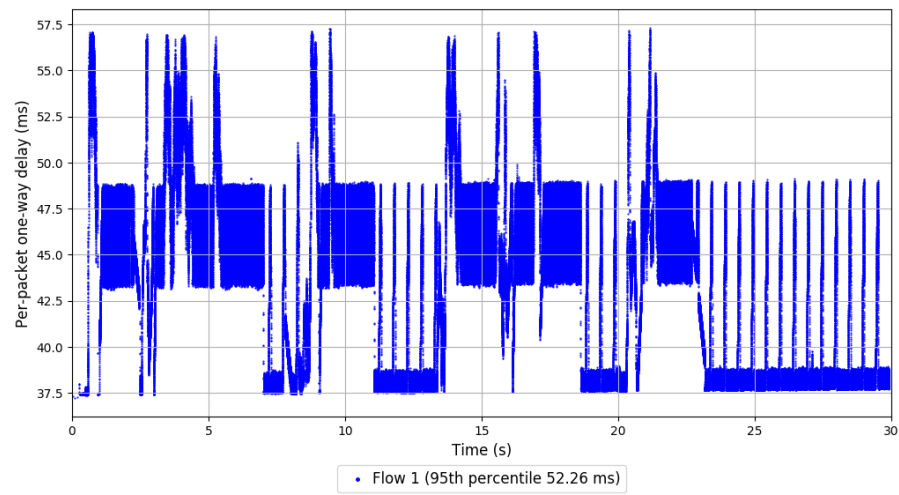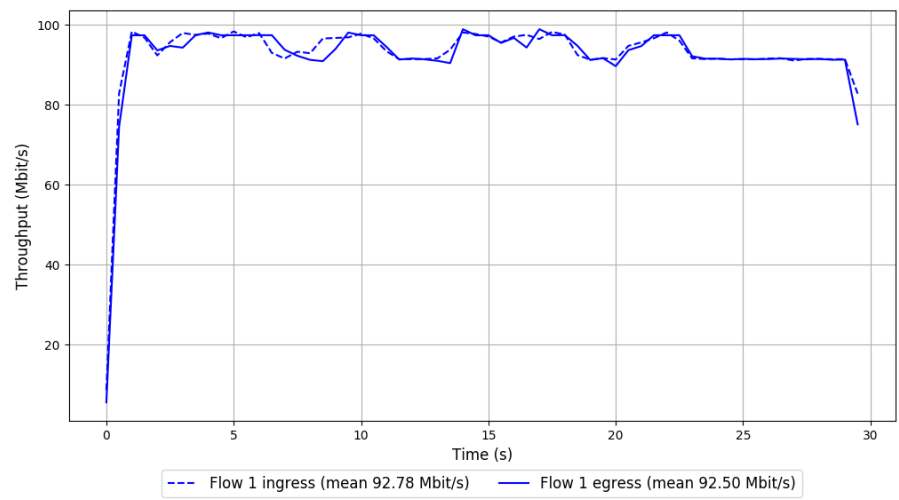
Run 4: Report of FillP — Data Link

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```
Run 5: Statistics of FillP

Start at: 2018-04-24 06:52:25
End at: 2018-04-24 06:52:55
Local clock offset: -3.858 ms
Remote clock offset: -2.206 ms


# Below is generated by plot.py at 2018-04-24 13:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.90 Mbit/s
95th percentile per-packet one-way delay: 54.737 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 93.90 Mbit/s
95th percentile per-packet one-way delay: 54.737 ms
Loss rate: 0.75%
```

Run 5: Report of FillP — Data Link

```
Run 6: Statistics of FillP

Start at: 2018-04-24 07:15:21
End at: 2018-04-24 07:15:51
Local clock offset: -2.689 ms
Remote clock offset: -1.928 ms


# Below is generated by plot.py at 2018-04-24 13:08:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 55.362 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 93.61 Mbit/s
95th percentile per-packet one-way delay: 55.362 ms
Loss rate: 0.74%
```
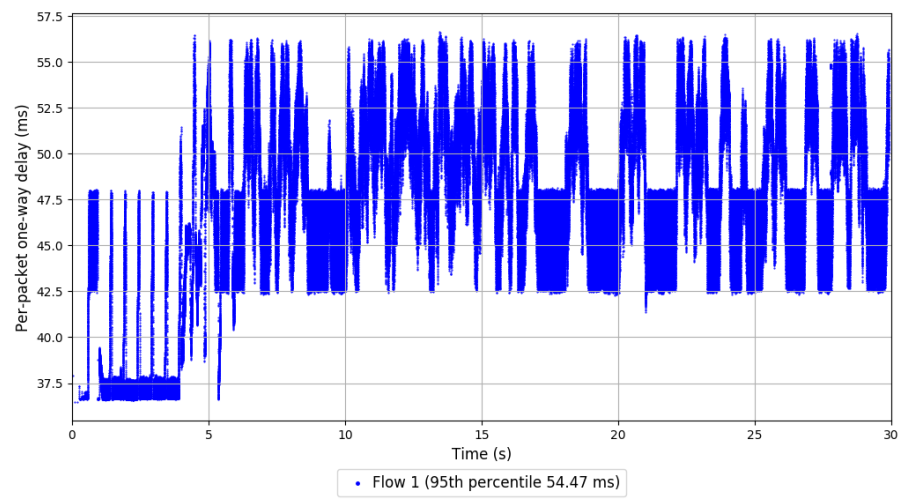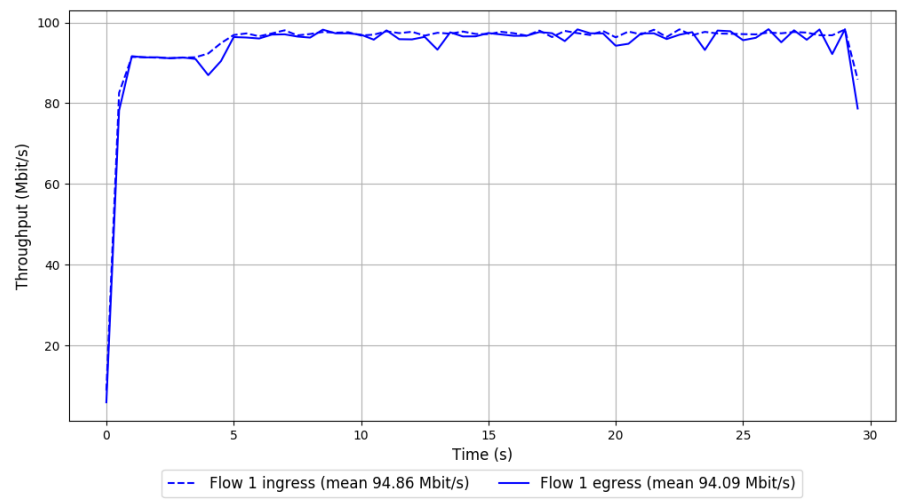
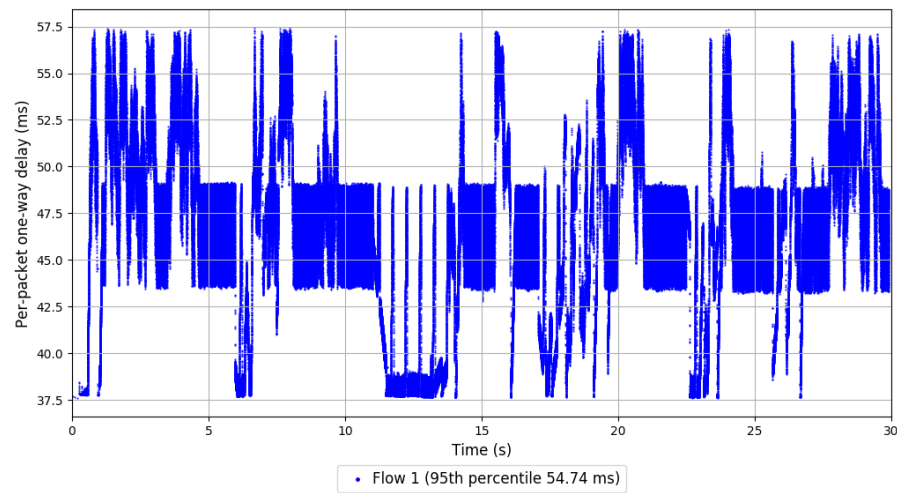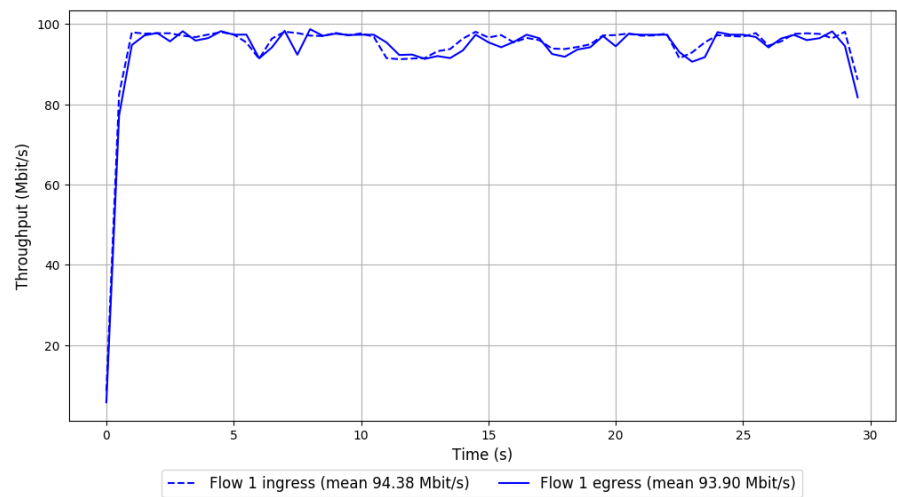## Run 6: Report of FillP — Data Link

Flow 1 ingress (mean 94.09 Mbit/s) --- Flow 1 egress (mean 93.61 Mbit/s)

Flow 1 (95th percentile 55.36 ms)

```
Run 7: Statistics of FillP

Start at: 2018-04-24 07:38:55
End at: 2018-04-24 07:39:25
Local clock offset: -0.913 ms
Remote clock offset: -0.935 ms


# Below is generated by plot.py at 2018-04-24 13:09:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.16 Mbit/s
95th percentile per-packet one-way delay: 52.618 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 92.16 Mbit/s
95th percentile per-packet one-way delay: 52.618 ms
Loss rate: 0.54%
```

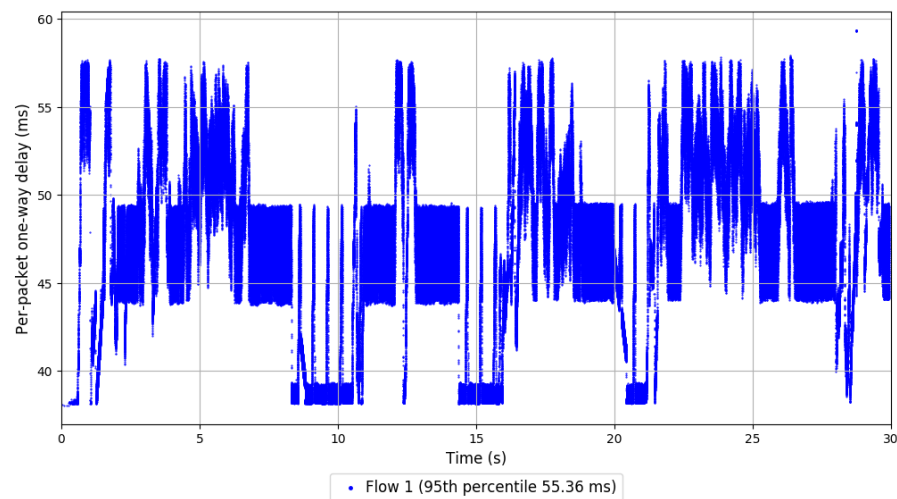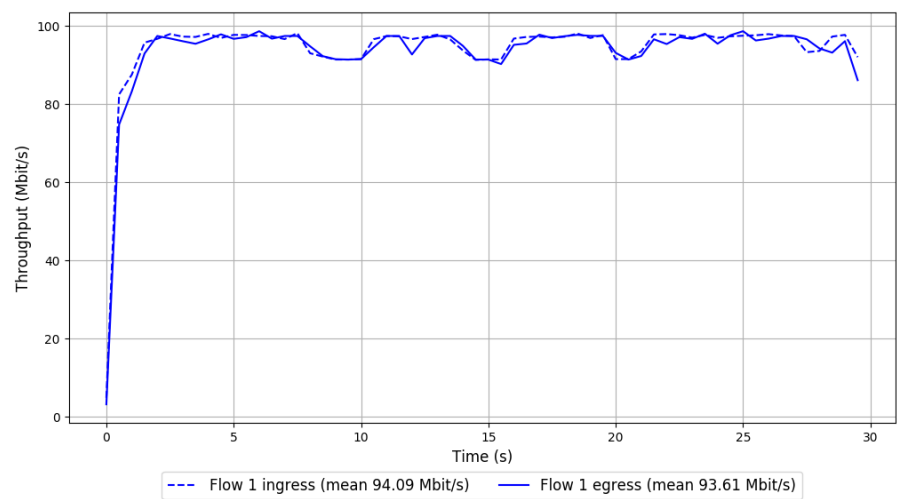# Run 7: Report of FillP — Data Link

Flow 1 ingress (mean 92.44 Mbit/s)   Flow 1 egress (mean 92.16 Mbit/s)

Flow 1 (95th percentile 52.62 ms)

```
Run 8: Statistics of FillP

Start at: 2018-04-24 08:04:35
End at: 2018-04-24 08:05:05
Local clock offset: -0.27 ms
Remote clock offset: -0.52 ms


# Below is generated by plot.py at 2018-04-24 13:09:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 55.387 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 93.78 Mbit/s
95th percentile per-packet one-way delay: 55.387 ms
Loss rate: 1.19%
```
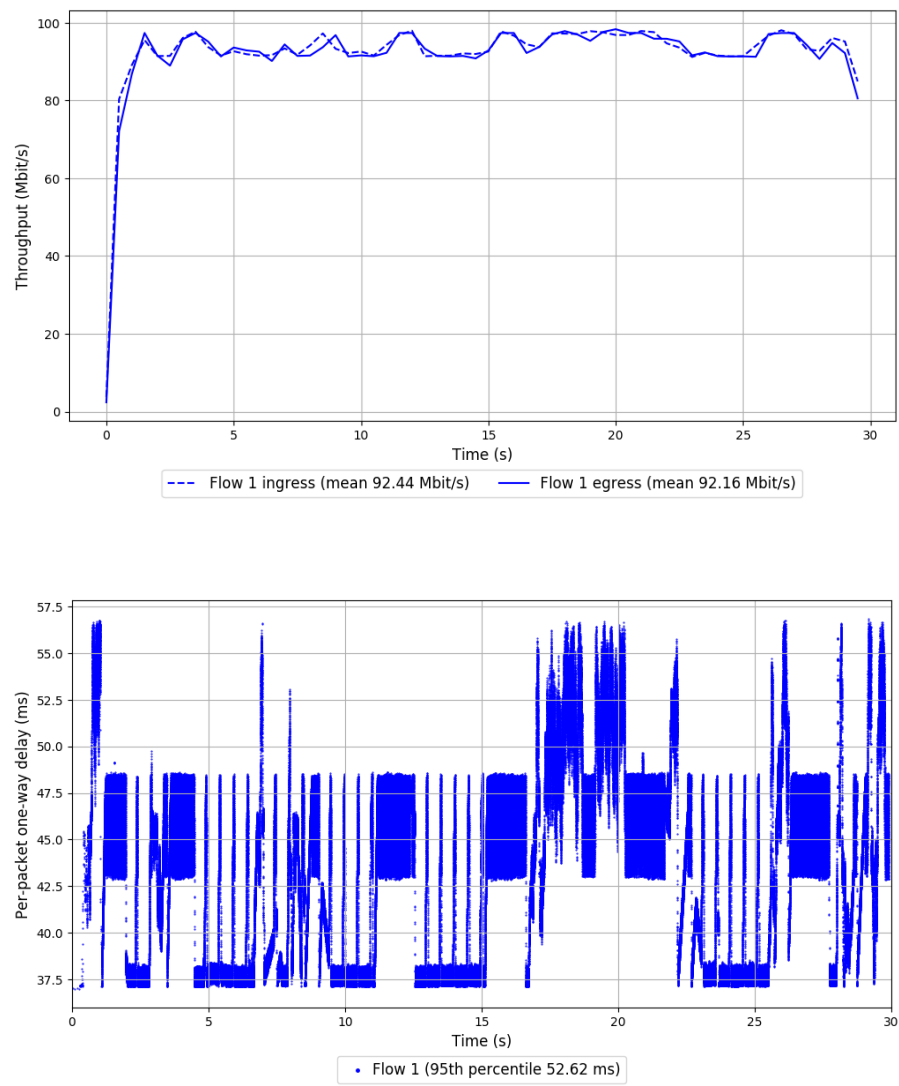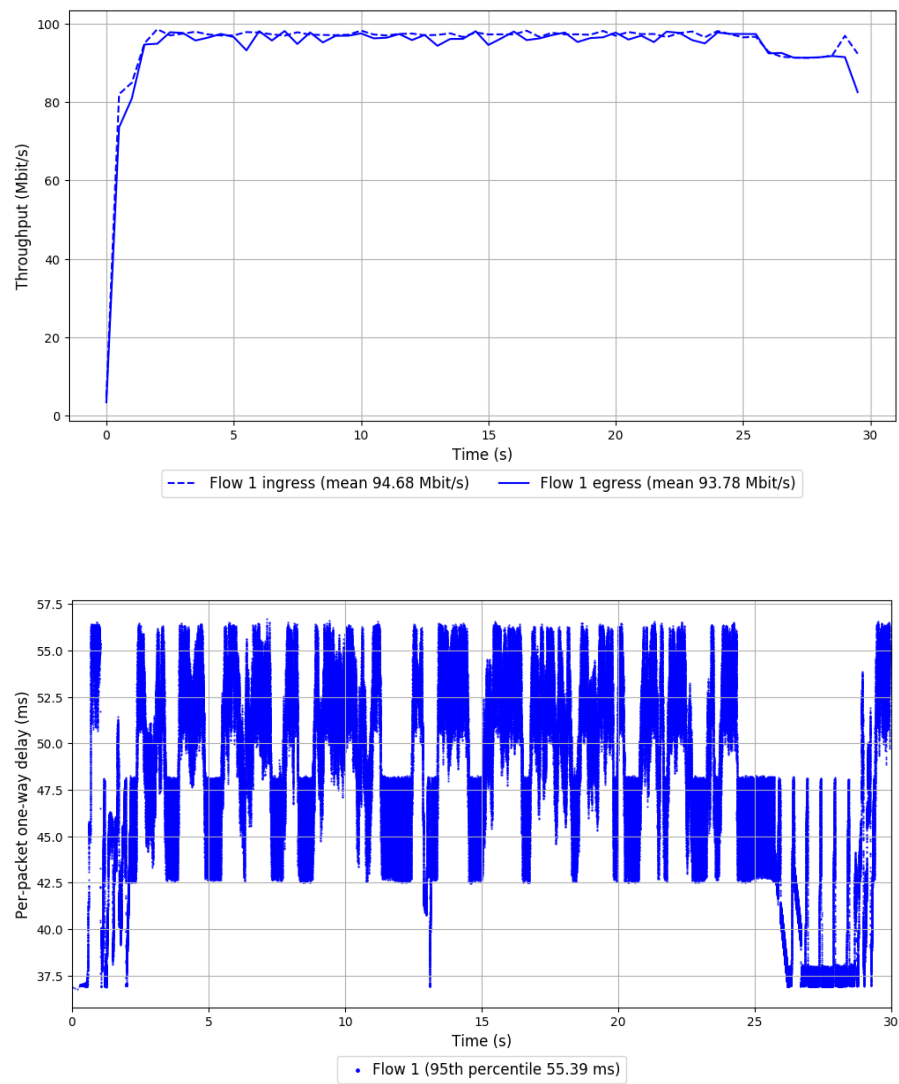
Run 8: Report of FillP — Data Link

Flow 1 ingress (mean 94.68 Mbit/s)   Flow 1 egress (mean 93.78 Mbit/s)

Flow 1 (95th percentile 55.39 ms)

259

```
Run 9: Statistics of FillP

Start at: 2018-04-24 08:28:10
End at: 2018-04-24 08:28:40
Local clock offset: -0.491 ms
Remote clock offset: -1.854 ms


# Below is generated by plot.py at 2018-04-24 13:09:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 56.352 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 93.68 Mbit/s
95th percentile per-packet one-way delay: 56.352 ms
Loss rate: 1.04%
```
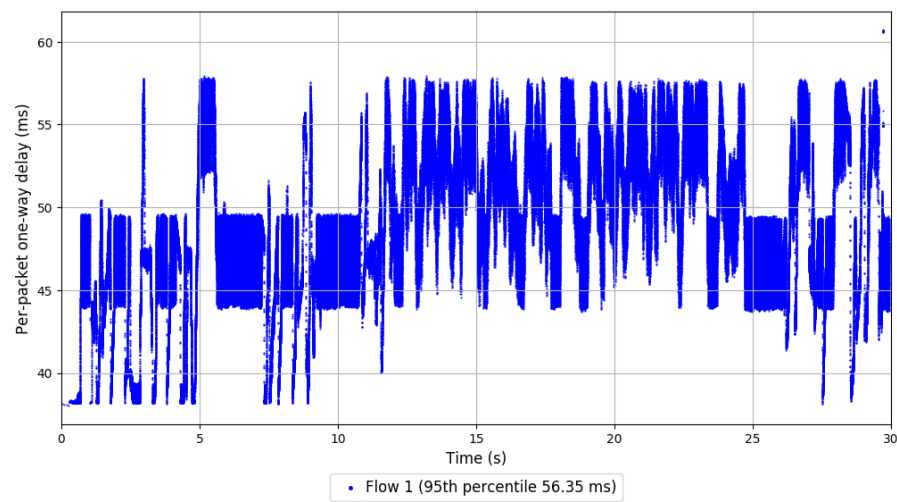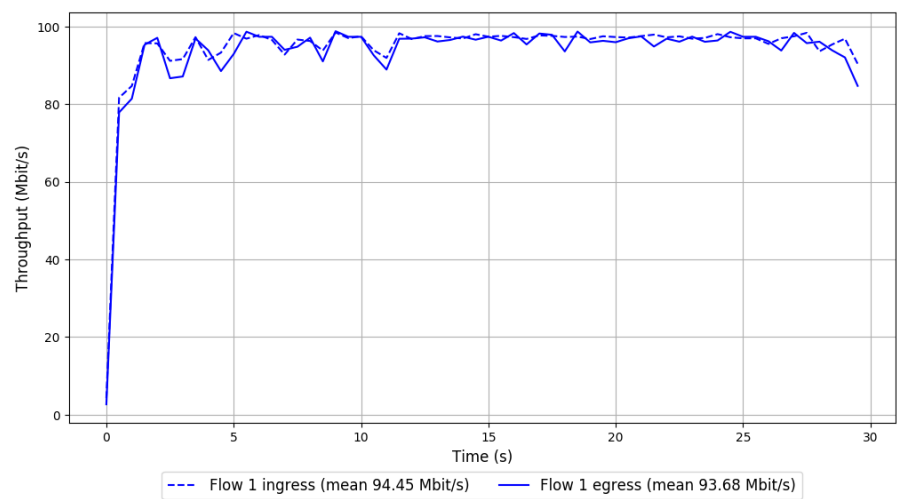
Run 9: Report of FillP — Data Link

```
Run 10: Statistics of FillP

Start at: 2018-04-24 08:51:38
End at: 2018-04-24 08:52:08
Local clock offset: -0.304 ms
Remote clock offset: -2.268 ms

# Below is generated by plot.py at 2018-04-24 13:10:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 52.393 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 52.393 ms
Loss rate: 0.47%
```
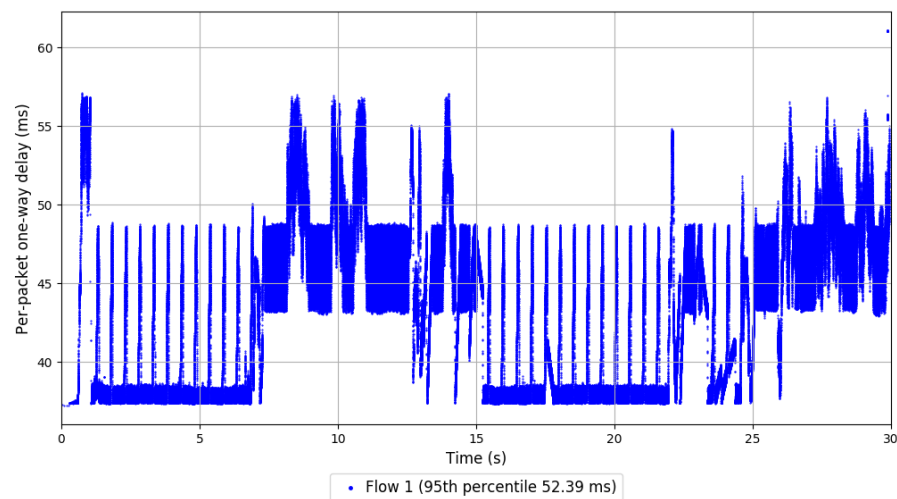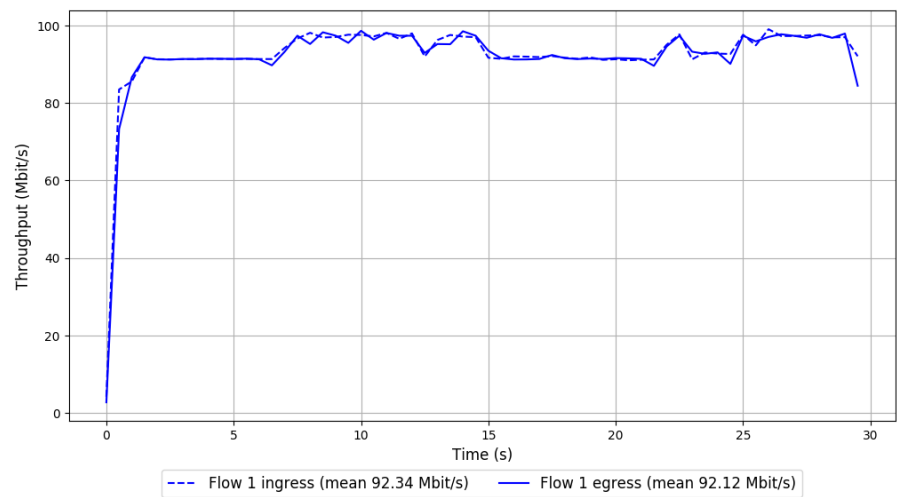
Run 10: Report of FillP — Data Link

Flow 1 ingress (mean 92.34 Mbit/s)　　Flow 1 egress (mean 92.12 Mbit/s)

Flow 1 (95th percentile 52.39 ms)

263

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

Start at: 2018-04-24 05:09:53
End at: 2018-04-24 05:10:23
Local clock offset: -3.037 ms
Remote clock offset: -0.975 ms


# Below is generated by plot.py at 2018-04-24 13:10:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 47.109 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 56.35 Mbit/s
95th percentile per-packet one-way delay: 47.109 ms
Loss rate: 1.03%
```
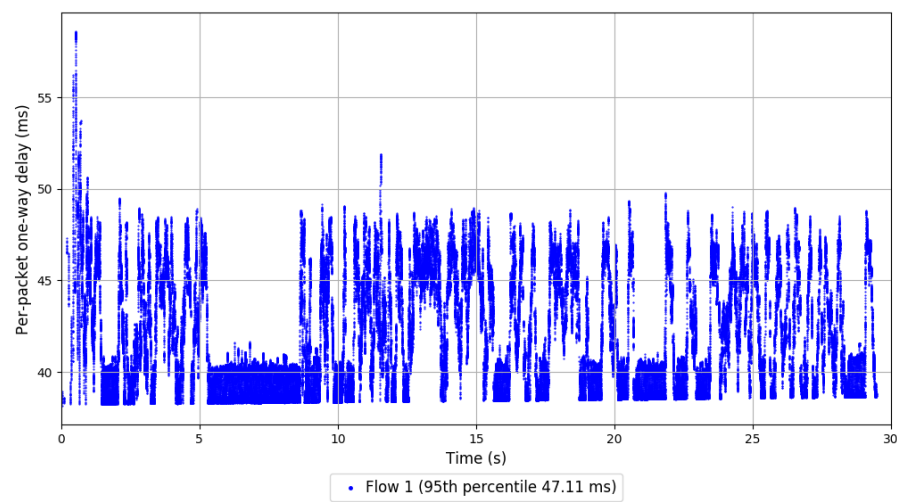
Run 1: Report of Indigo-1-32 — Data Link

Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 05:34:03
End at: 2018-04-24 05:34:33
Local clock offset: -7.464 ms
Remote clock offset: -2.557 ms

Below is generated by plot.py at 2018-04-24 13:10:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.74 Mbit/s
95th percentile per-packet one-way delay: 45.708 ms
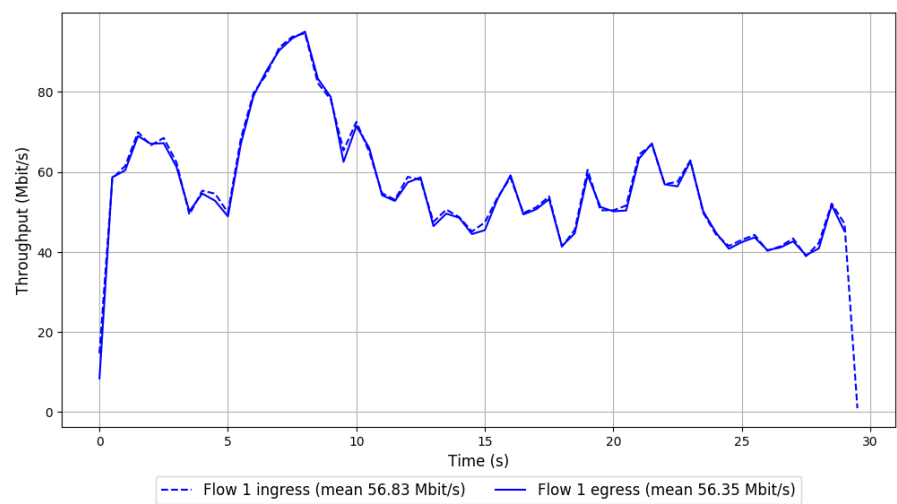Loss rate: 0.75%
-- Flow 1:
Average throughput: 75.74 Mbit/s
95th percentile per-packet one-way delay: 45.708 ms
Loss rate: 0.75%

Run 2: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-24 05:57:39
End at: 2018-04-24 05:58:09
Local clock offset: -8.866 ms
Remote clock offset: -3.562 ms


# Below is generated by plot.py at 2018-04-24 13:10:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 46.401 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 90.26 Mbit/s
95th percentile per-packet one-way delay: 46.401 ms
Loss rate: 0.62%
```

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

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

Start at: 2018-04-24 06:20:32
End at: 2018-04-24 06:21:02
Local clock offset: -6.773 ms
Remote clock offset: 3.079 ms


# Below is generated by plot.py at 2018-04-24 13:10:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.17 Mbit/s
95th percentile per-packet one-way delay: 46.958 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 80.17 Mbit/s
95th percentile per-packet one-way delay: 46.958 ms
Loss rate: 0.93%
```
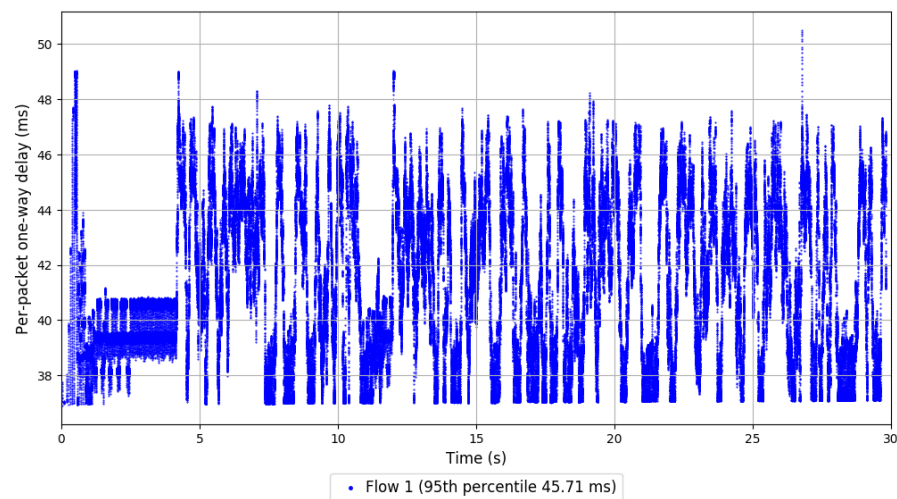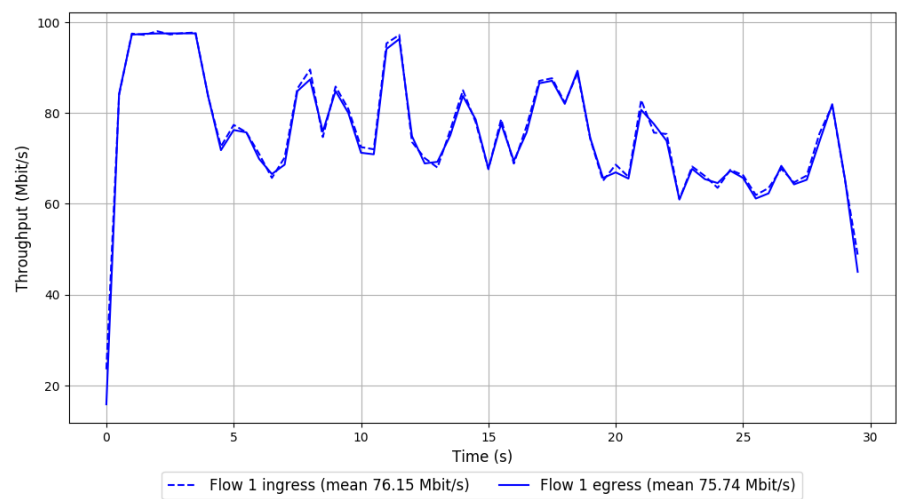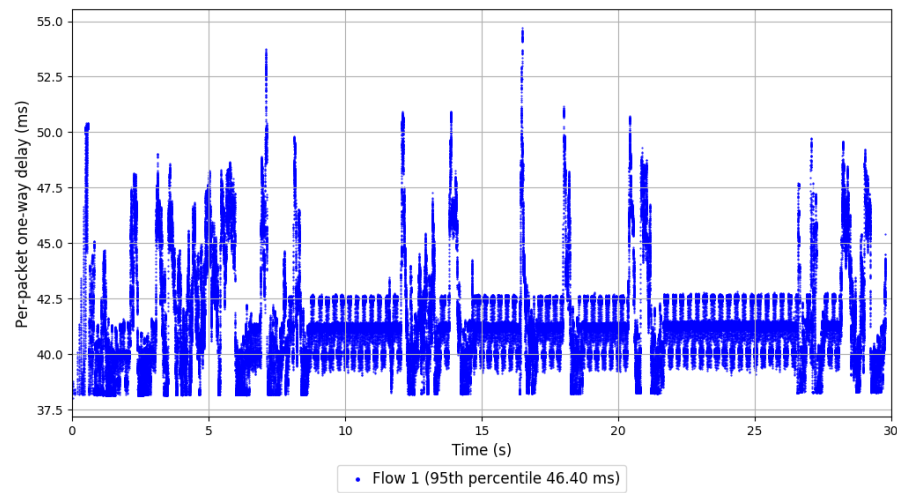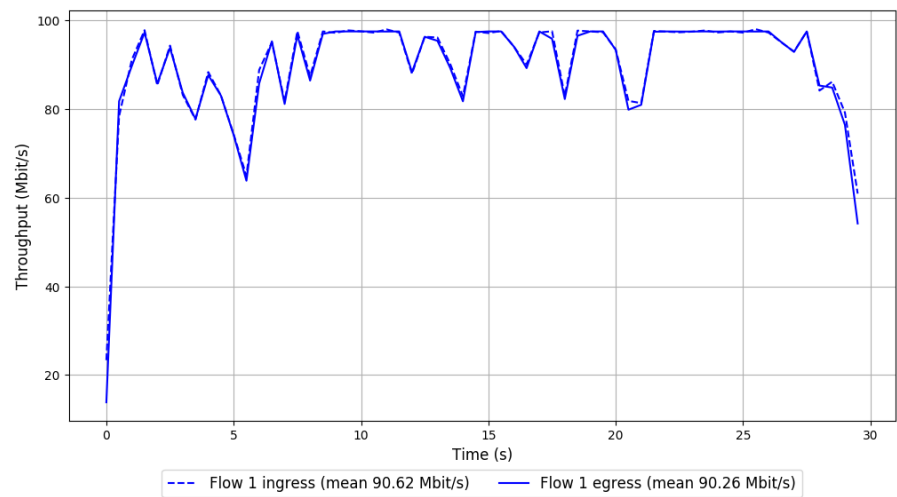
Run 4: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-24 06:43:07
End at: 2018-04-24 06:43:37
Local clock offset: -6.403 ms
Remote clock offset: -1.326 ms


# Below is generated by plot.py at 2018-04-24 13:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.43 Mbit/s
95th percentile per-packet one-way delay: 45.551 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 84.43 Mbit/s
95th percentile per-packet one-way delay: 45.551 ms
Loss rate: 0.59%
```

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

Flow 1 ingress (mean 84.74 Mbit/s)   Flow 1 egress (mean 84.43 Mbit/s)

Flow 1 (95th percentile 45.55 ms)

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

Start at: 2018-04-24 07:06:02
End at: 2018-04-24 07:06:32
Local clock offset: -2.418 ms
Remote clock offset: -2.516 ms


# Below is generated by plot.py at 2018-04-24 13:10:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.69 Mbit/s
95th percentile per-packet one-way delay: 44.685 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 85.69 Mbit/s
95th percentile per-packet one-way delay: 44.685 ms
Loss rate: 0.51%
```
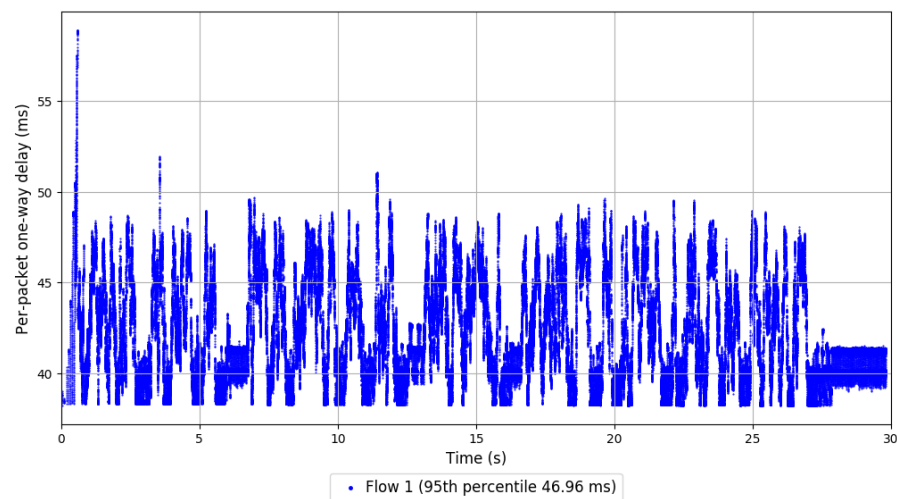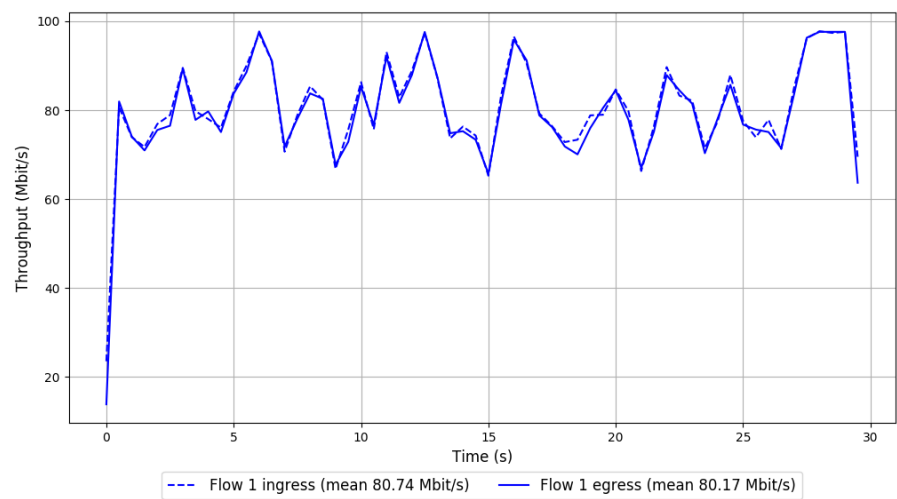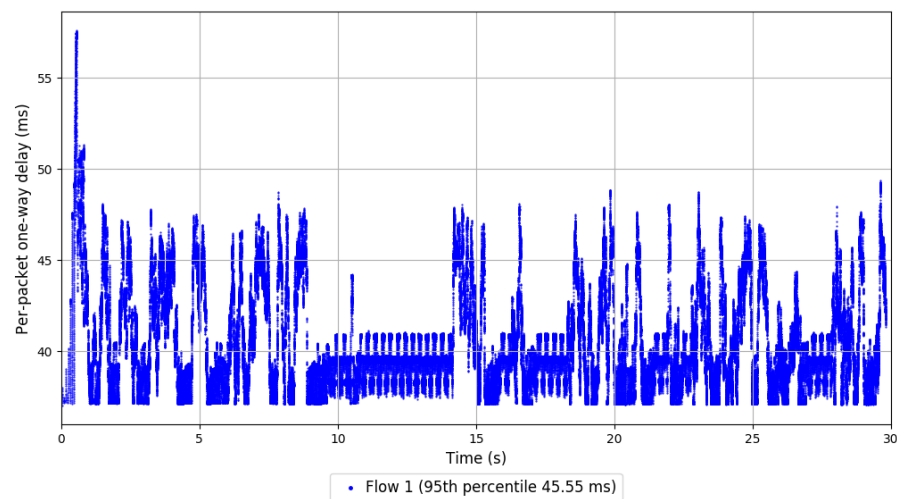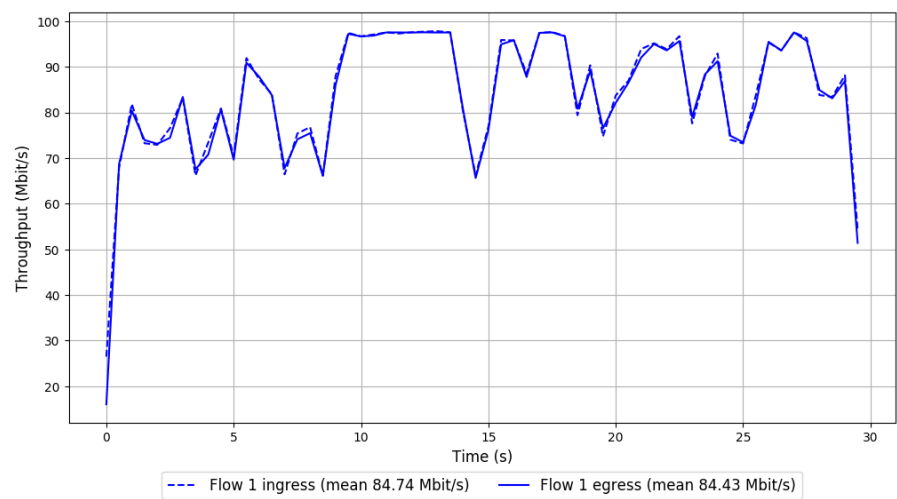
Run 6: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 85.94 Mbit/s)   Flow 1 egress (mean 85.69 Mbit/s)

• Flow 1 (95th percentile 44.69 ms)

275

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

Start at: 2018-04-24 07:29:20
End at: 2018-04-24 07:29:50
Local clock offset: -1.418 ms
Remote clock offset: -1.083 ms


# Below is generated by plot.py at 2018-04-24 13:10:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.51 Mbit/s
95th percentile per-packet one-way delay: 44.901 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 81.51 Mbit/s
95th percentile per-packet one-way delay: 44.901 ms
Loss rate: 0.58%
```

Run 7: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-24 07:54:57
End at: 2018-04-24 07:55:27
Local clock offset: -0.87 ms
Remote clock offset: -1.15 ms


# Below is generated by plot.py at 2018-04-24 13:11:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 46.292 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 87.69 Mbit/s
95th percentile per-packet one-way delay: 46.292 ms
Loss rate: 0.43%
```
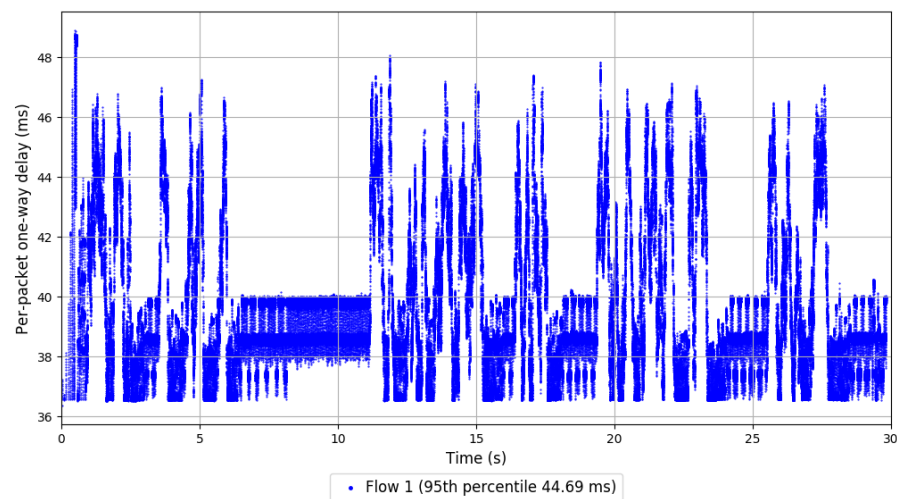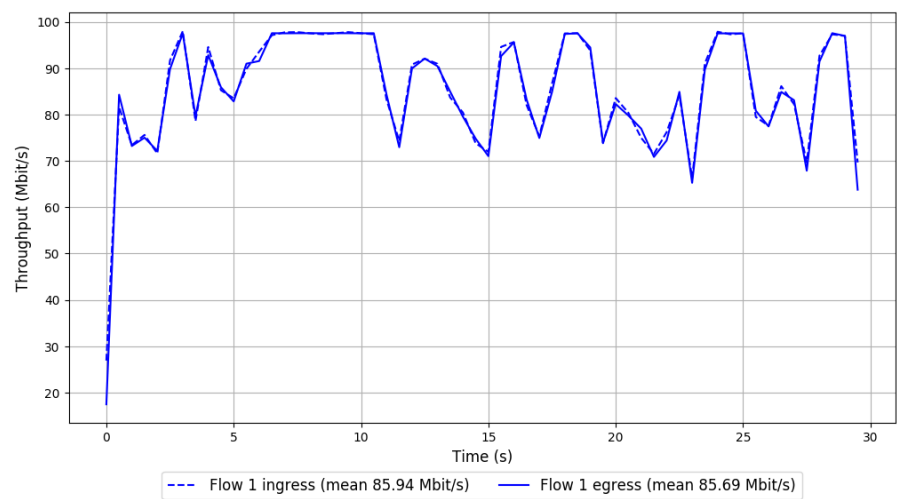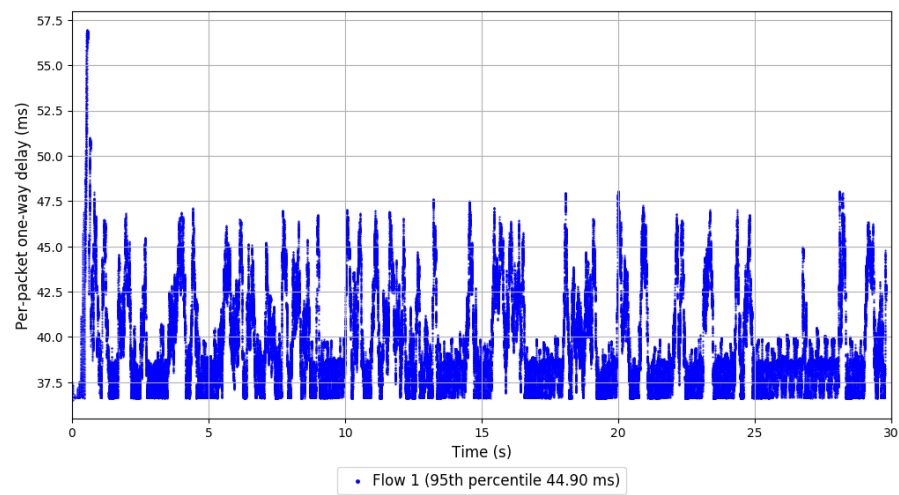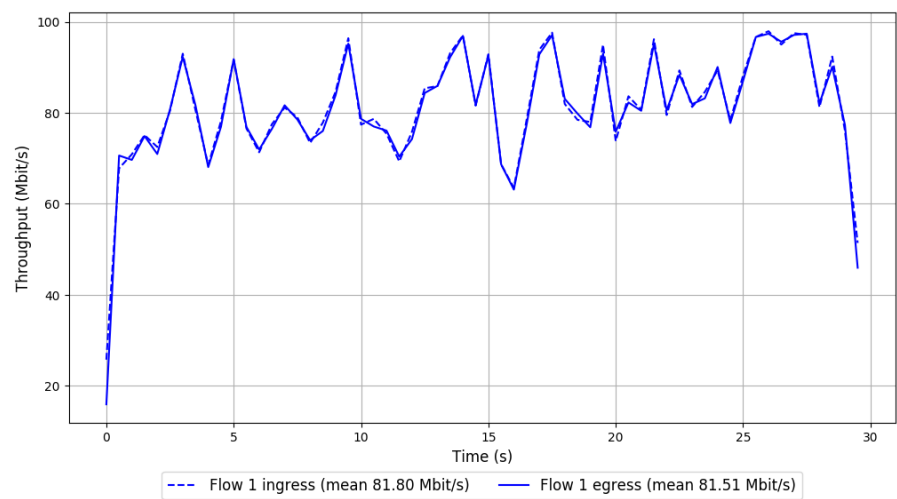
Run 8: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 87.86 Mbit/s) --- Flow 1 egress (mean 87.69 Mbit/s)

Flow 1 (95th percentile 46.29 ms)

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

Start at: 2018-04-24 08:18:33
End at: 2018-04-24 08:19:03
Local clock offset: -0.313 ms
Remote clock offset: -1.355 ms


# Below is generated by plot.py at 2018-04-24 13:11:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.42 Mbit/s
95th percentile per-packet one-way delay: 45.931 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 75.42 Mbit/s
95th percentile per-packet one-way delay: 45.931 ms
Loss rate: 0.78%
```

Run 9: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 75.85 Mbit/s) —— Flow 1 egress (mean 75.42 Mbit/s)

• Flow 1 (95th percentile 45.93 ms)

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

Start at: 2018-04-24 08:41:43
End at: 2018-04-24 08:42:13
Local clock offset: -0.584 ms
Remote clock offset: -1.93 ms


# Below is generated by plot.py at 2018-04-24 13:11:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 44.776 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 44.776 ms
Loss rate: 0.40%
```
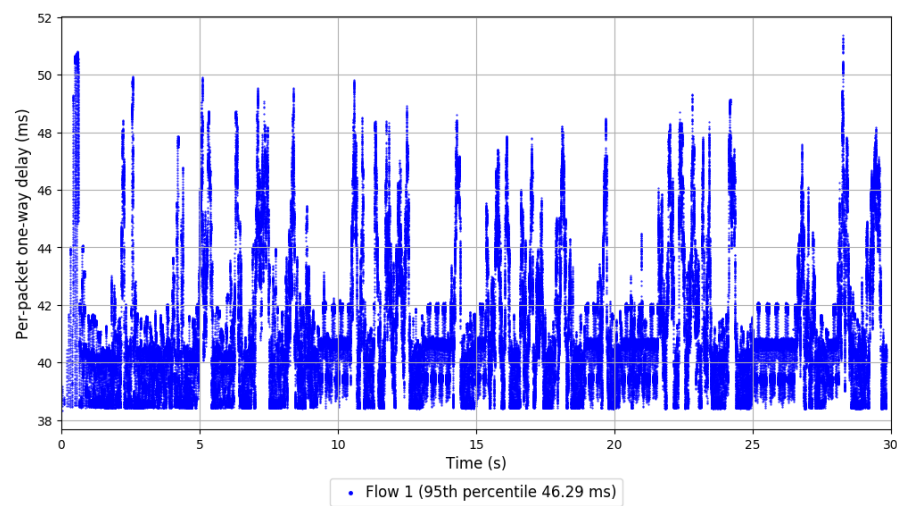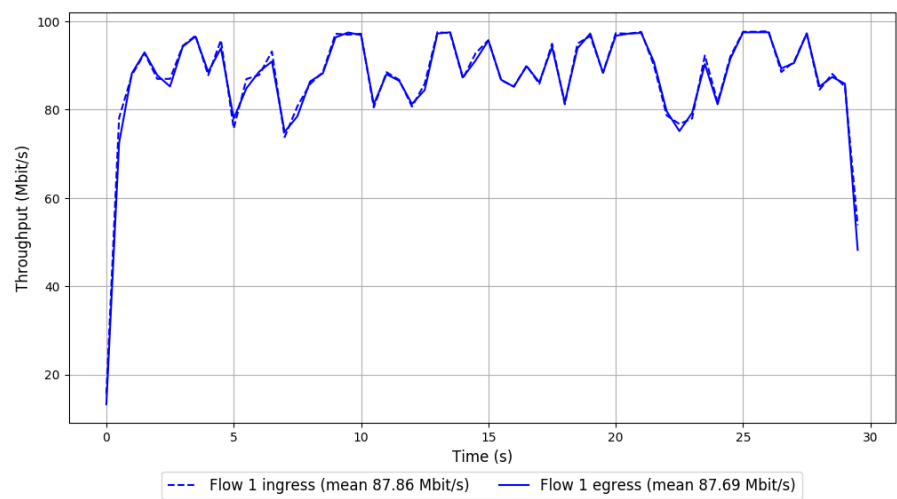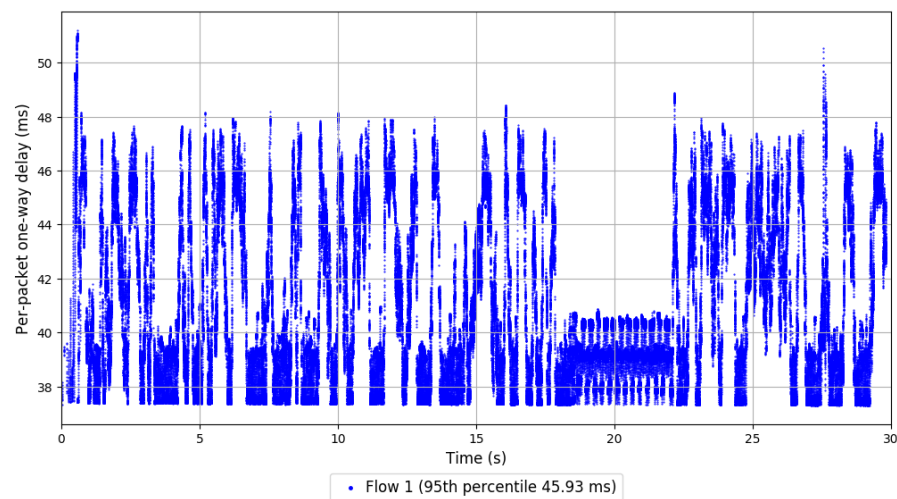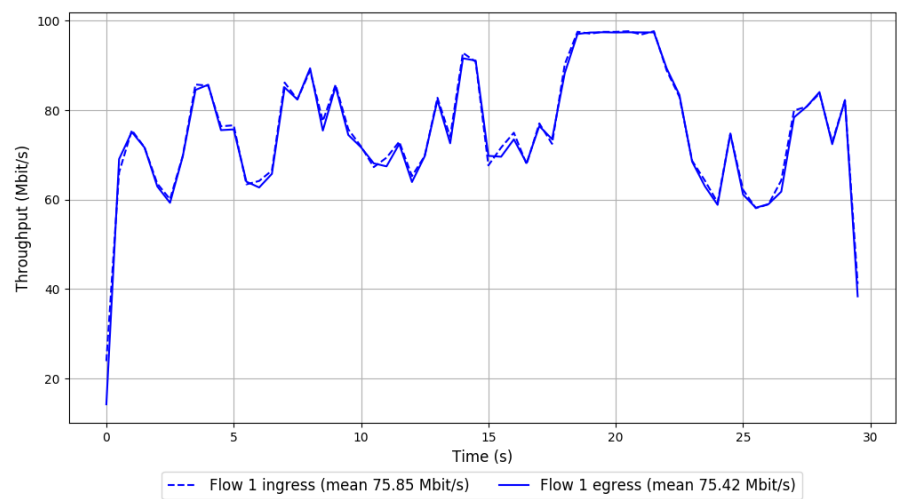
Run 10: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 91.22 Mbit/s) --- Flow 1 egress (mean 91.07 Mbit/s)

• Flow 1 (95th percentile 44.78 ms)

```
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 05:24:00
End at: 2018-04-24 05:24:30
Local clock offset: -5.251 ms
Remote clock offset: -0.497 ms


# Below is generated by plot.py at 2018-04-24 13:11:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.77 Mbit/s
95th percentile per-packet one-way delay: 46.485 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 53.77 Mbit/s
95th percentile per-packet one-way delay: 46.485 ms
Loss rate: 0.88%
```

Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 05:47:48
End at: 2018-04-24 05:48:18
Local clock offset: -7.024 ms
Remote clock offset: -3.98 ms


# Below is generated by plot.py at 2018-04-24 13:11:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.87 Mbit/s
95th percentile per-packet one-way delay: 45.217 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 61.87 Mbit/s
95th percentile per-packet one-way delay: 45.217 ms
Loss rate: 0.77%
```
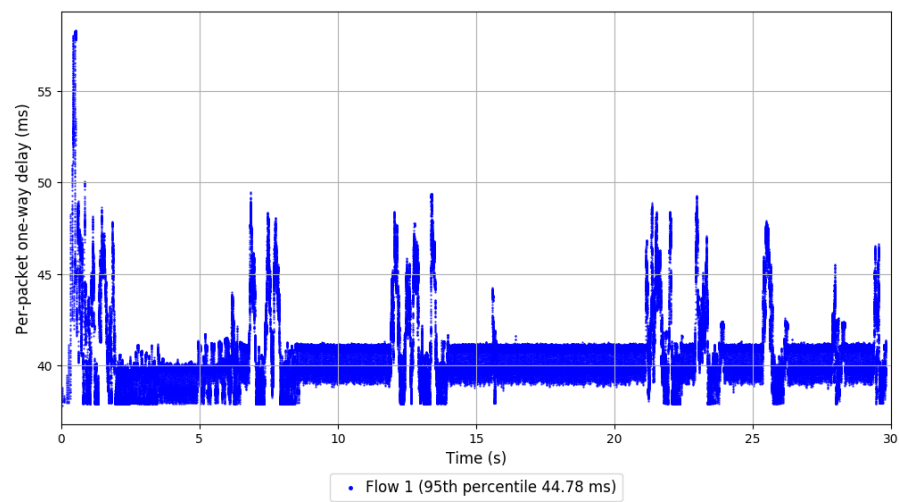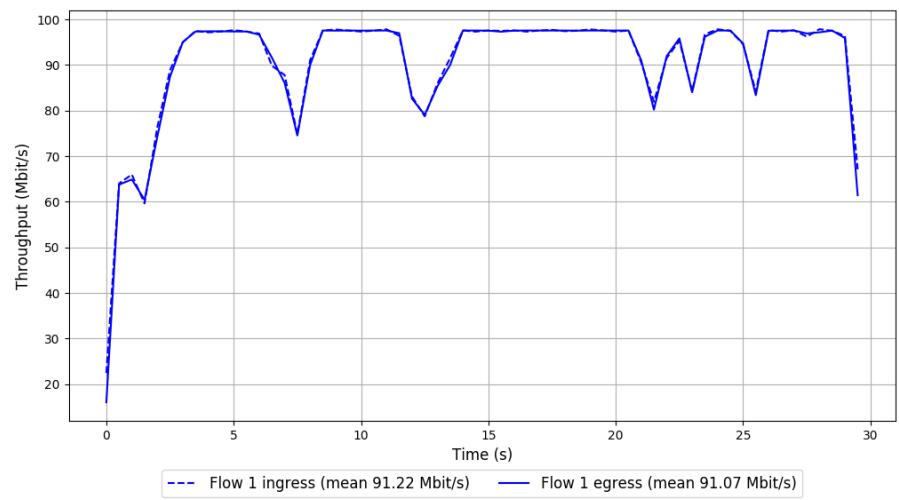
Run 2: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 62.20 Mbit/s) ----- Flow 1 egress (mean 61.87 Mbit/s)
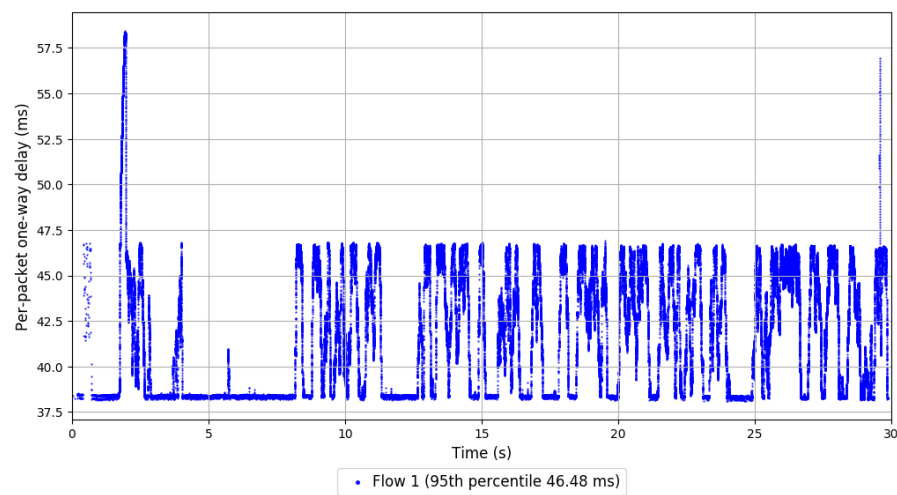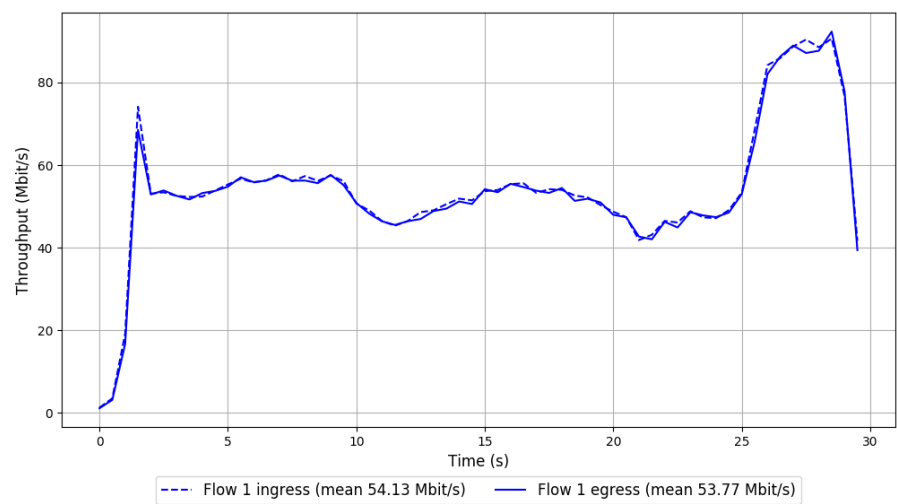

Flow 1 (95th percentile 45.22 ms)

```
Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 06:11:02
End at: 2018-04-24 06:11:32
Local clock offset: -13.19 ms
Remote clock offset: 1.805 ms


# Below is generated by plot.py at 2018-04-24 13:11:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.65 Mbit/s
95th percentile per-packet one-way delay: 46.109 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 74.65 Mbit/s
95th percentile per-packet one-way delay: 46.109 ms
Loss rate: 0.76%
```

Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 75.04 Mbit/s) ----- Flow 1 egress (mean 74.65 Mbit/s)

• Flow 1 (95th percentile 46.11 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 06:33:44
End at: 2018-04-24 06:34:14
Local clock offset: -5.442 ms
Remote clock offset: 3.723 ms


# Below is generated by plot.py at 2018-04-24 13:12:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 44.647 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 44.647 ms
Loss rate: 0.63%
```
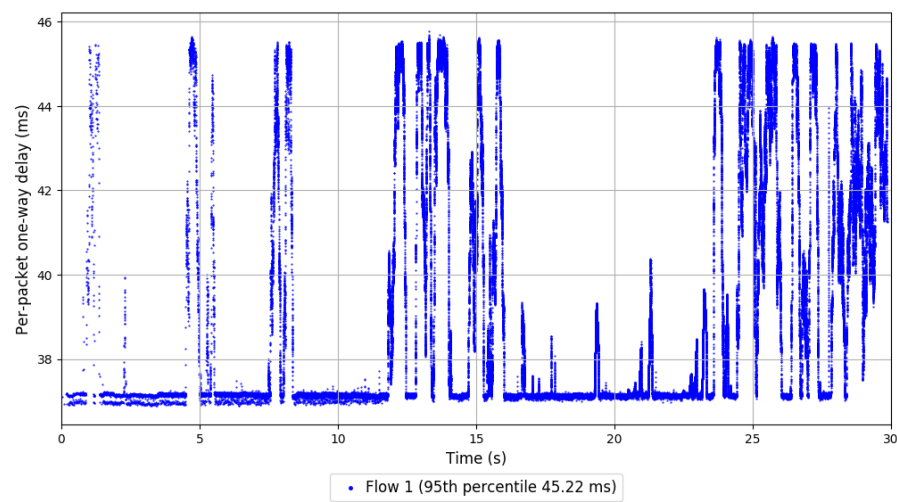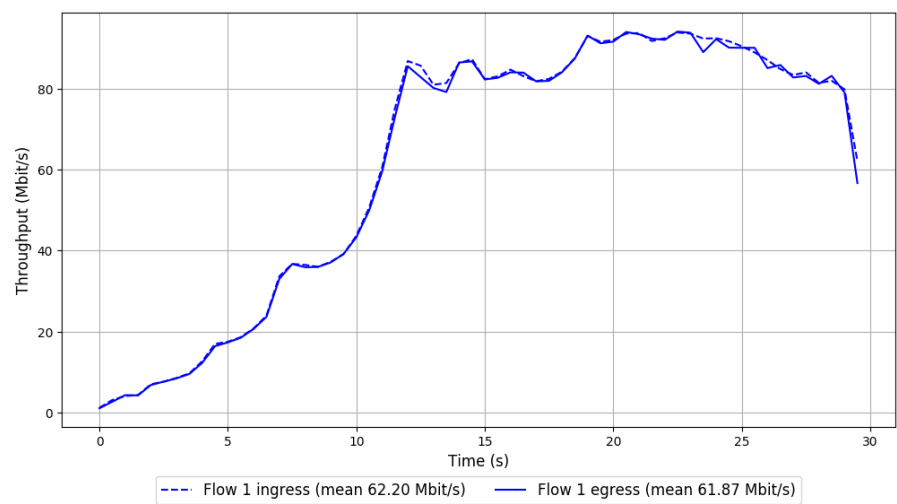
Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 06:56:27
End at: 2018-04-24 06:56:57
Local clock offset: -2.909 ms
Remote clock offset: -2.496 ms


# Below is generated by plot.py at 2018-04-24 13:12:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.50 Mbit/s
95th percentile per-packet one-way delay: 52.514 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 81.50 Mbit/s
95th percentile per-packet one-way delay: 52.514 ms
Loss rate: 0.88%
```
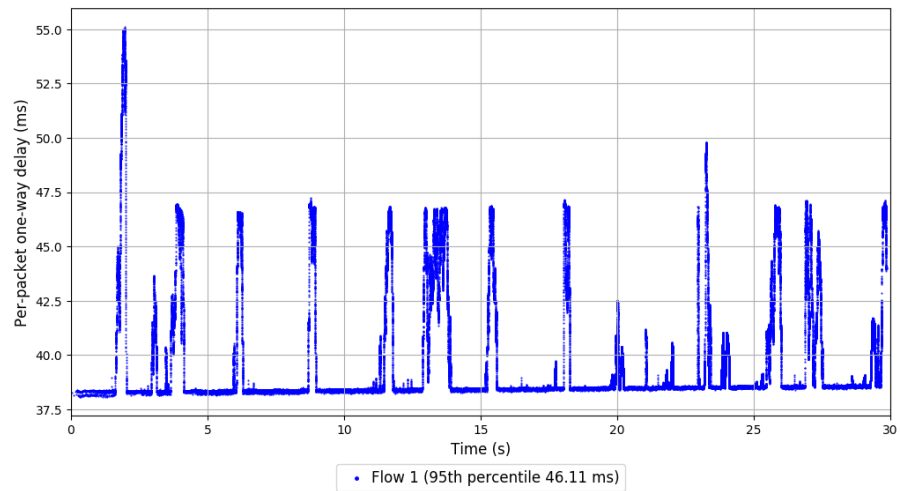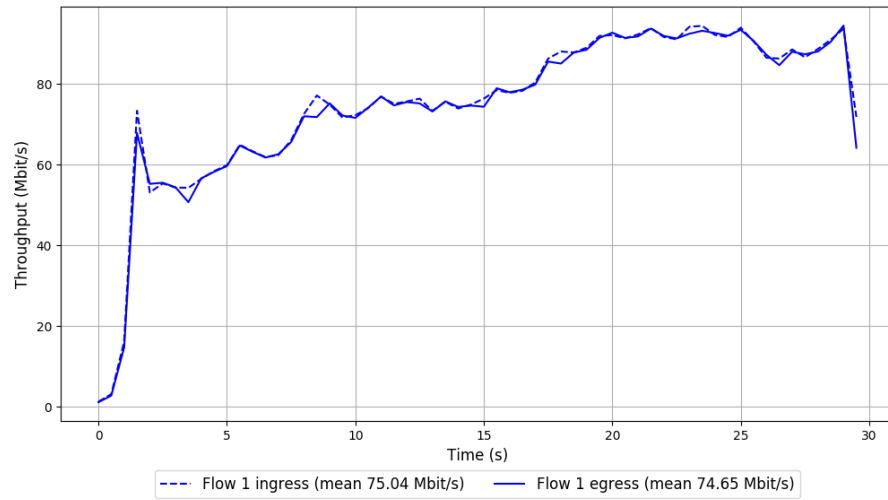
Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 82.03 Mbit/s) --- Flow 1 egress (mean 81.50 Mbit/s)

Flow 1 (95th percentile 52.51 ms)

```
Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 07:19:25
End at: 2018-04-24 07:19:55
Local clock offset: -3.046 ms
Remote clock offset: -2.126 ms


# Below is generated by plot.py at 2018-04-24 13:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.23 Mbit/s
95th percentile per-packet one-way delay: 46.570 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 81.23 Mbit/s
95th percentile per-packet one-way delay: 46.570 ms
Loss rate: 0.96%
```
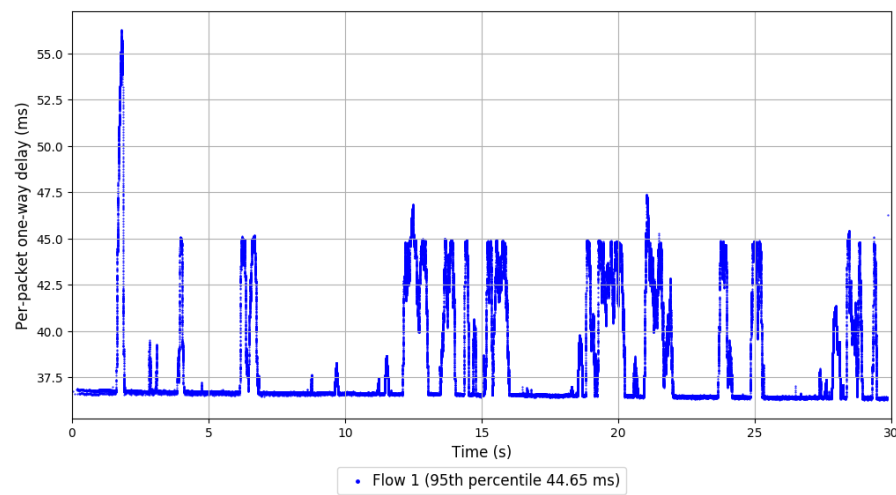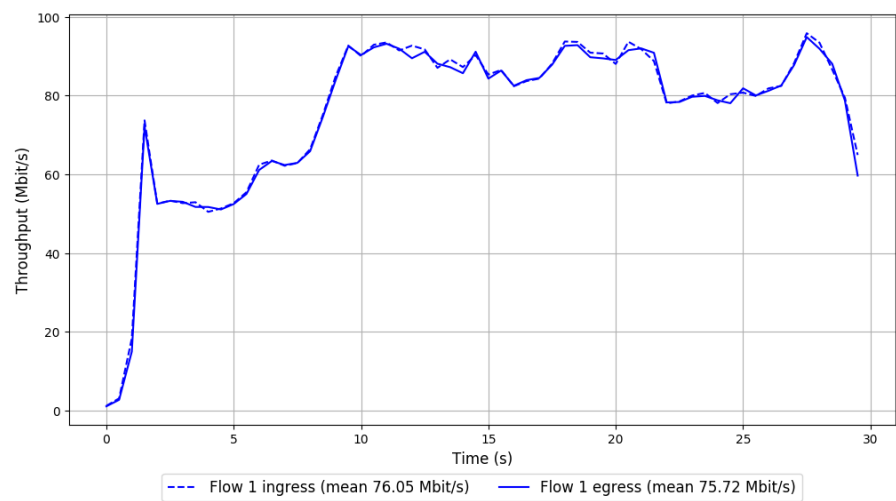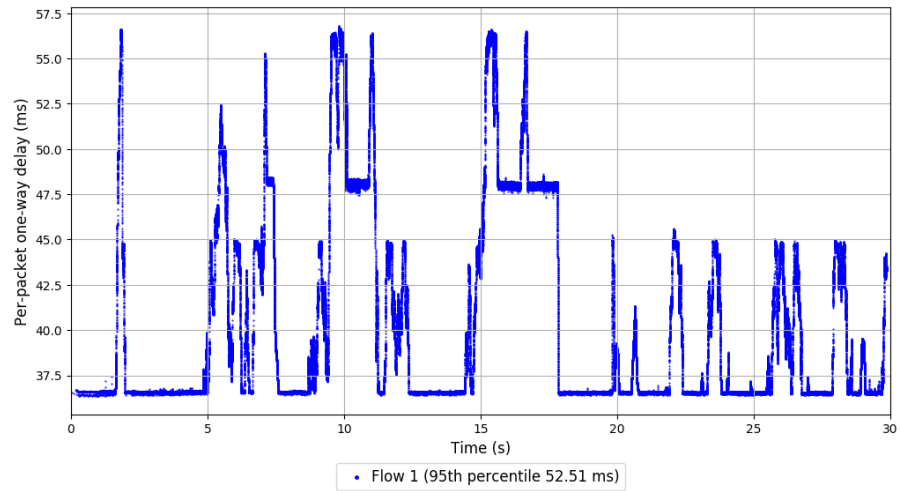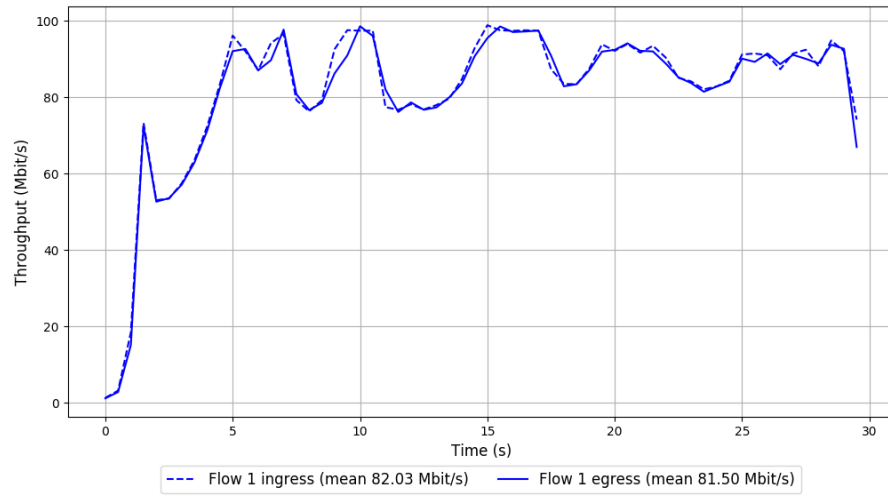
Run 6: Report of PCC-Vivace — Data Link

```
Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 07:42:54
End at: 2018-04-24 07:43:24
Local clock offset: -0.858 ms
Remote clock offset: -0.921 ms


# Below is generated by plot.py at 2018-04-24 13:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.02 Mbit/s
95th percentile per-packet one-way delay: 45.823 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 81.02 Mbit/s
95th percentile per-packet one-way delay: 45.823 ms
Loss rate: 0.51%
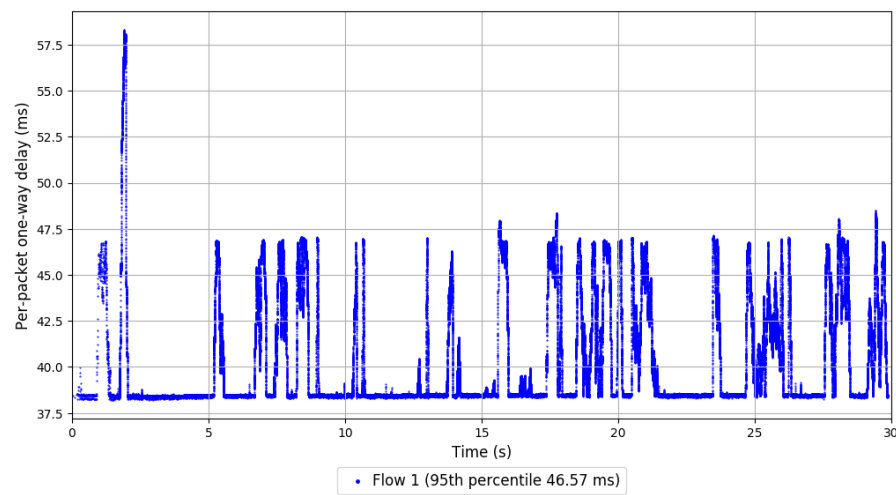```
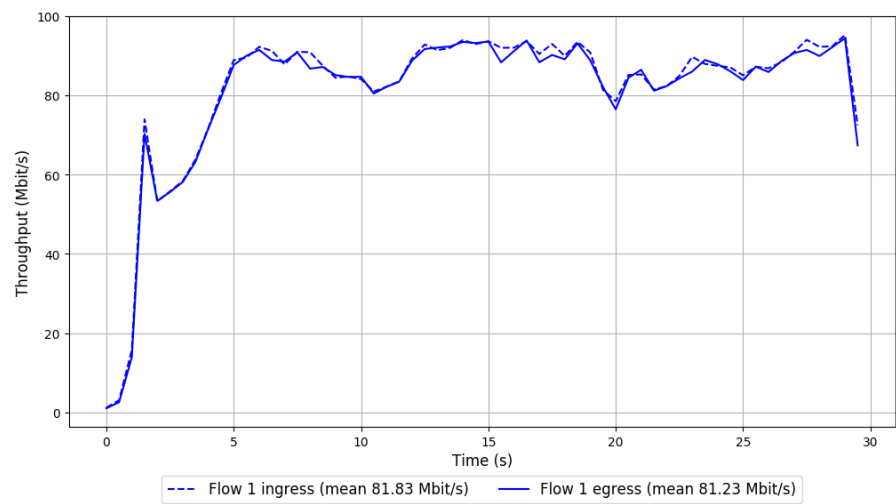
# Run 7: Report of PCC-Vivace — Data Link



Flow 1 ingress (mean 81.24 Mbit/s) --- Flow 1 egress (mean 81.02 Mbit/s)



Flow 1 (95th percentile 45.82 ms)

```
Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 08:08:47
End at: 2018-04-24 08:09:17
Local clock offset: -0.26 ms
Remote clock offset: -0.745 ms


# Below is generated by plot.py at 2018-04-24 13:12:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.20 Mbit/s
95th percentile per-packet one-way delay: 46.873 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 59.20 Mbit/s
95th percentile per-packet one-way delay: 46.873 ms
Loss rate: 0.89%
```

Run 8: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 59.58 Mbit/s) --- Flow 1 egress (mean 59.20 Mbit/s)
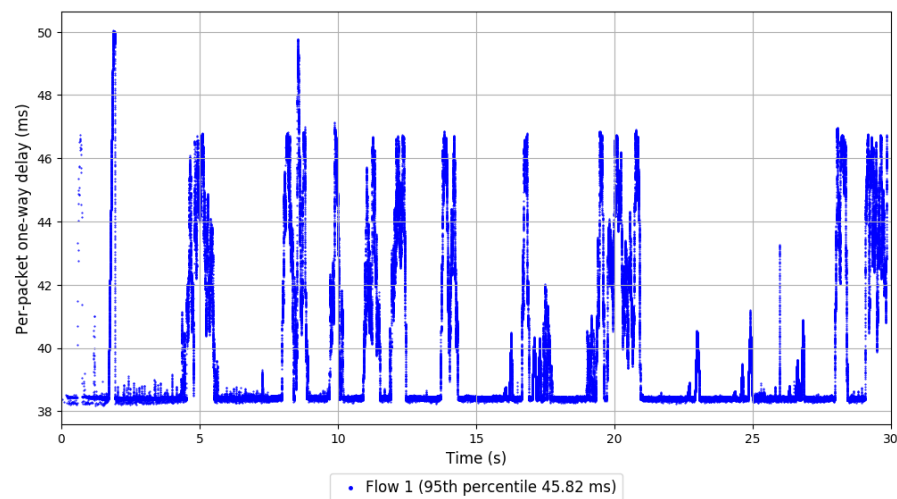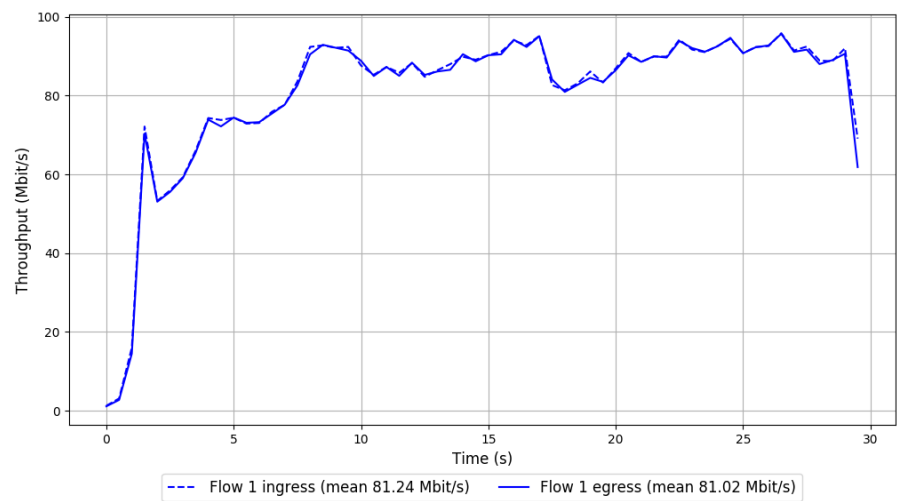

Flow 1 (95th percentile 46.87 ms)

```
Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 08:32:12
End at: 2018-04-24 08:32:42
Local clock offset: -0.593 ms
Remote clock offset: -2.503 ms

# Below is generated by plot.py at 2018-04-24 13:12:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.14 Mbit/s
95th percentile per-packet one-way delay: 45.223 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 77.14 Mbit/s
95th percentile per-packet one-way delay: 45.223 ms
Loss rate: 0.81%
```

Run 9: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 77.59 Mbit/s)   Flow 1 egress (mean 77.14 Mbit/s)

Flow 1 (95th percentile 45.22 ms)

```
Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 08:55:58
End at: 2018-04-24 08:56:28
Local clock offset: -0.65 ms
Remote clock offset: -2.306 ms


# Below is generated by plot.py at 2018-04-24 13:12:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.63 Mbit/s
95th percentile per-packet one-way delay: 46.356 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 80.63 Mbit/s
95th percentile per-packet one-way delay: 46.356 ms
Loss rate: 0.48%
```
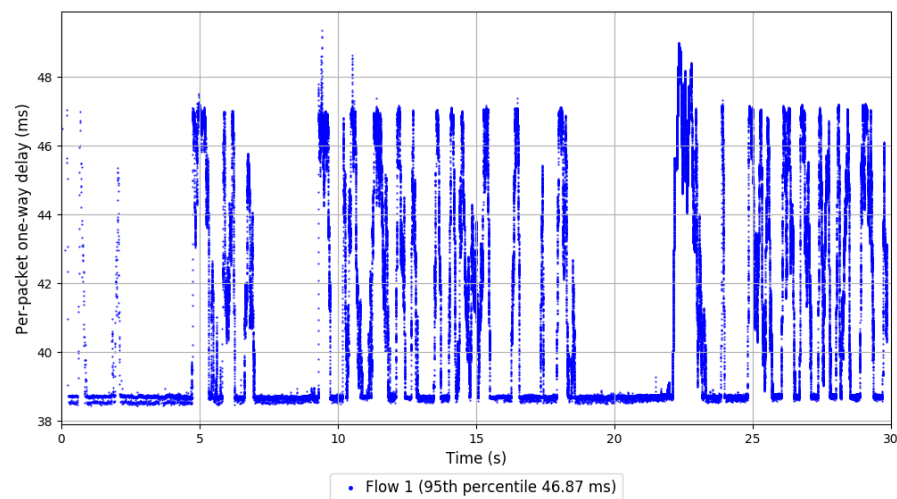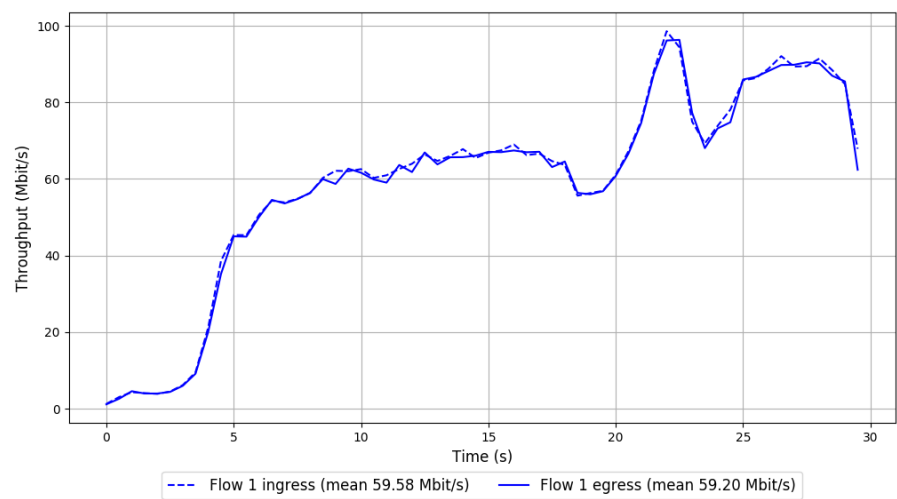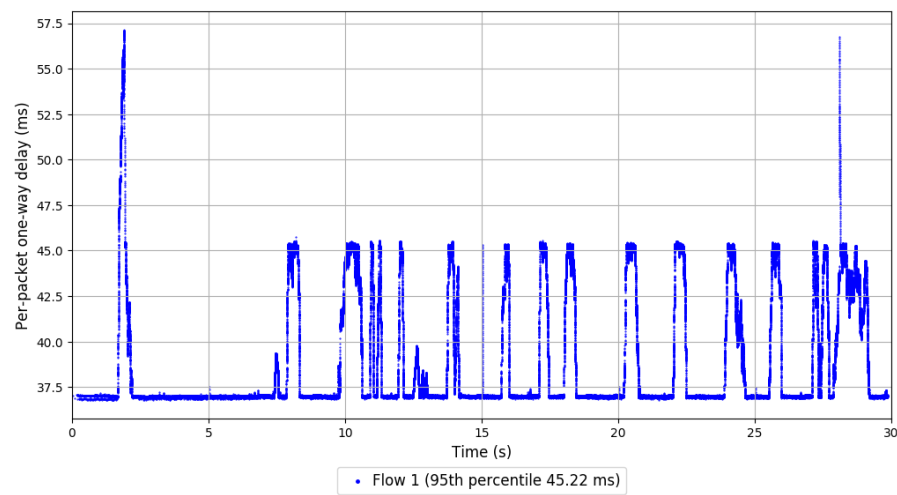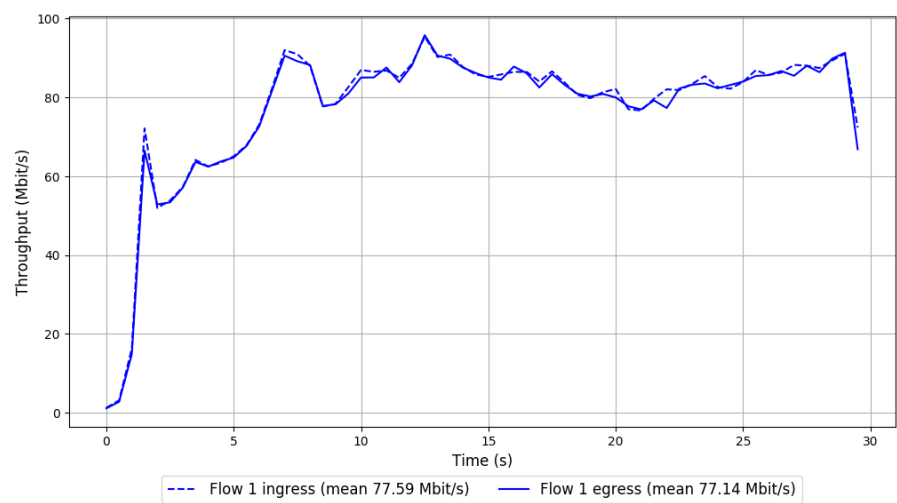
Run 10: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 80.83 Mbit/s) Flow 1 egress (mean 80.63 Mbit/s)

Flow 1 (95th percentile 46.36 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 05:05:47
End at: 2018-04-24 05:06:17
Local clock offset: -1.946 ms
Remote clock offset: -1.507 ms
```

Run 1: Report of PCC-Expr — Data Link

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```
Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 05:29:59
End at: 2018-04-24 05:30:29
Local clock offset: -5.926 ms
Remote clock offset: -1.732 ms
```

Run 2: Report of PCC-Expr — Data Link

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```
Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 05:53:40
End at: 2018-04-24 05:54:10
Local clock offset: -7.761 ms
Remote clock offset: -3.566 ms
```

Run 3: Report of PCC-Expr — Data Link

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```
Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 06:16:30
End at: 2018-04-24 06:17:00
Local clock offset: -8.922 ms
Remote clock offset: 2.454 ms
```

Run 4: Report of PCC-Expr — Data Link

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```
Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 06:39:11
End at: 2018-04-24 06:39:42
Local clock offset: -5.873 ms
Remote clock offset: 0.084 ms
```

Run 5: Report of PCC-Expr — Data Link

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```
Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 07:02:05
End at: 2018-04-24 07:02:35
Local clock offset: -2.494 ms
Remote clock offset: -3.024 ms
```

Run 6: Report of PCC-Expr — Data Link

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```
Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 07:25:22
End at: 2018-04-24 07:25:52
Local clock offset: -1.963 ms
Remote clock offset: -1.792 ms
```

Run 7: Report of PCC-Expr — Data Link

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```
Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 07:48:26
End at: 2018-04-24 07:48:56
Local clock offset: -0.592 ms
Remote clock offset: -0.77 ms
```

Run 8: Report of PCC-Expr — Data Link

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```
Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 08:14:27
End at: 2018-04-24 08:14:57
Local clock offset: -0.262 ms
Remote clock offset: -0.551 ms
```

Run 9: Report of PCC-Expr — Data Link

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Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 08:37:48
End at: 2018-04-24 08:38:18
Local clock offset: -0.56 ms
Remote clock offset: -2.499 ms

Run 10: Report of PCC-Expr — Data Link

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