Pantheon Report

Generated at 2018-04-17 08:35:03 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

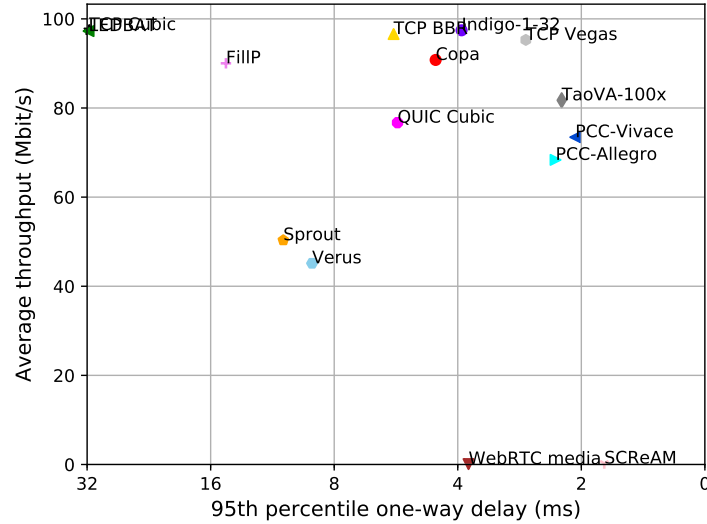Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

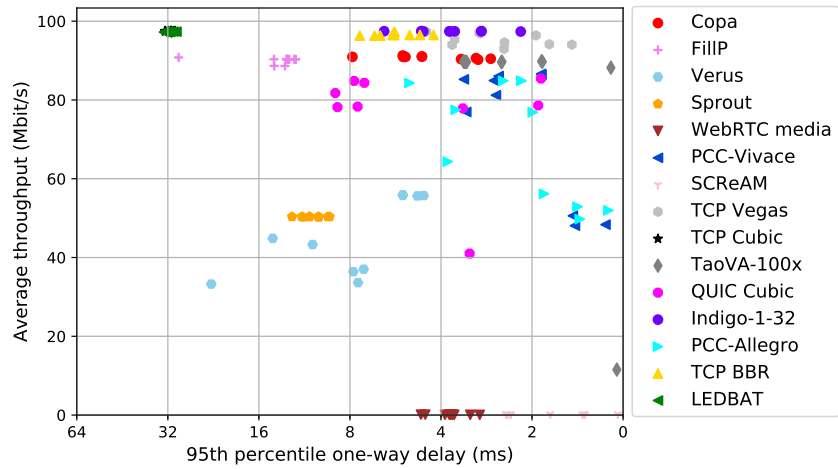NTP offsets were measured against `gps.ntp.br` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
 M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
 M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
 M src/examples/cellsim.cc
 M src/examples/sproutbt2.cc
 M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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

test from AWS Brazil 1 Ethernet to Brazil 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	96.60	5.73	0.42
TCP Cubic	10	97.49	31.62	0.01
LEDBAT	10	97.26	31.74	0.02
PCC-Allegro	10	68.36	2.31	0.00
QUIC Cubic	9	76.71	5.61	0.23
SCReAM	10	0.22	1.63	0.00
WebRTC media	10	0.08	3.77	0.00
Sprout	10	50.33	10.64	0.00
TaoVA-100x	10	81.73	2.23	0.00
TCP Vegas	10	95.28	2.73	0.00
Verus	10	45.15	9.06	1.64
Copa	10	90.78	4.53	0.00
FillP	10	90.03	14.68	1.78
Indigo-1-32	10	97.44	3.92	0.00
PCC-Vivace	10	73.45	2.07	0.00
PCC-Expr	0	N/A	N/A	N/A

```
Run 1: Statistics of TCP BBR

Start at: 2018-04-17 04:52:00
End at: 2018-04-17 04:52:30
Local clock offset: -5.14 ms
Remote clock offset: -6.872 ms


# Below is generated by plot.py at 2018-04-17 08:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 4.234 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 4.234 ms
Loss rate: 0.00%
```
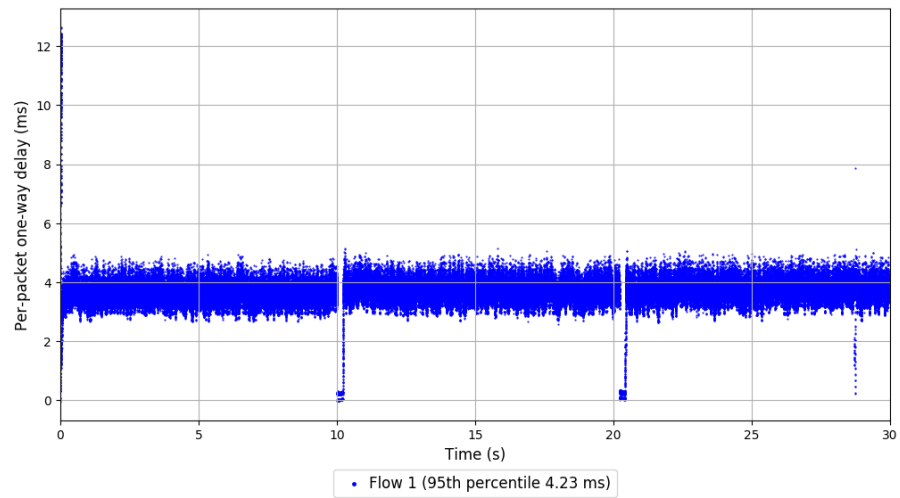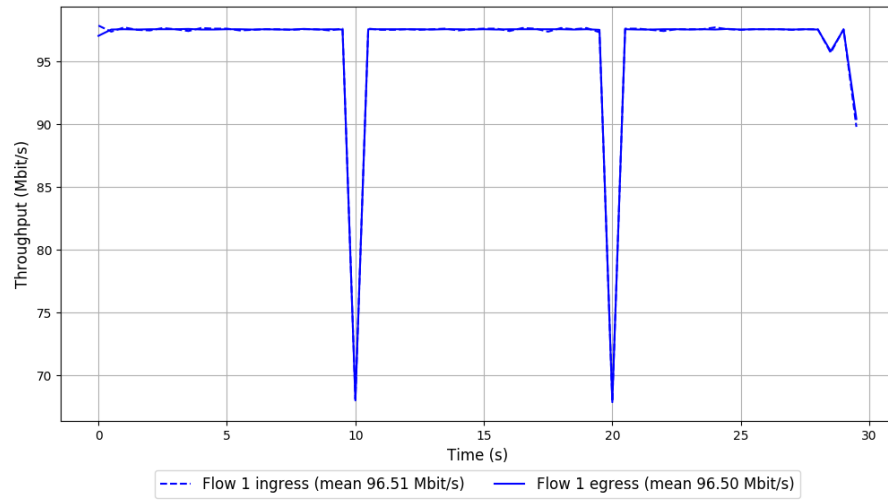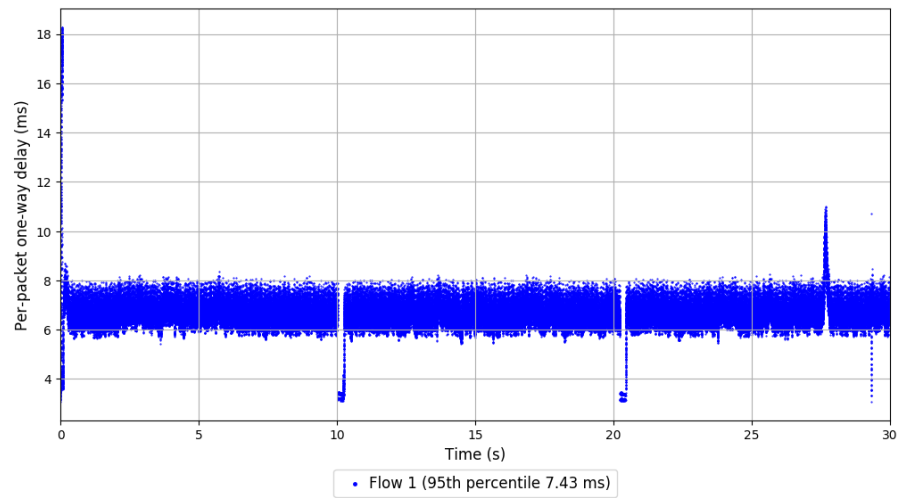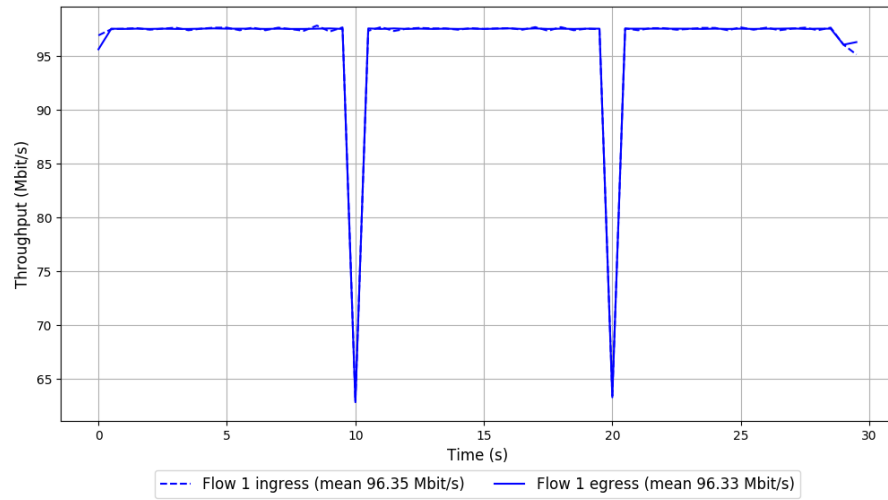
Run 1: Report of TCP BBR — Data Link

```
Run 2: Statistics of TCP BBR

Start at: 2018-04-17 05:11:02
End at: 2018-04-17 05:11:32
Local clock offset: -6.934 ms
Remote clock offset: -6.697 ms


# Below is generated by plot.py at 2018-04-17 08:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 7.426 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 7.426 ms
Loss rate: 0.00%
```
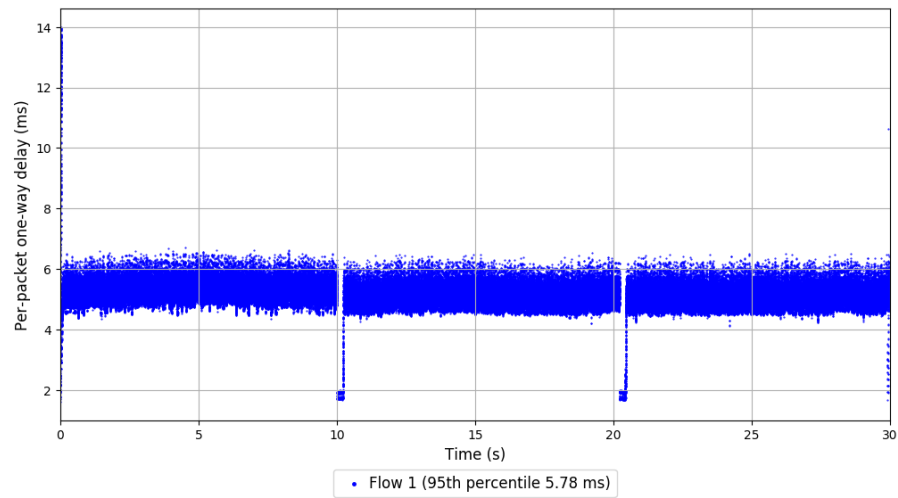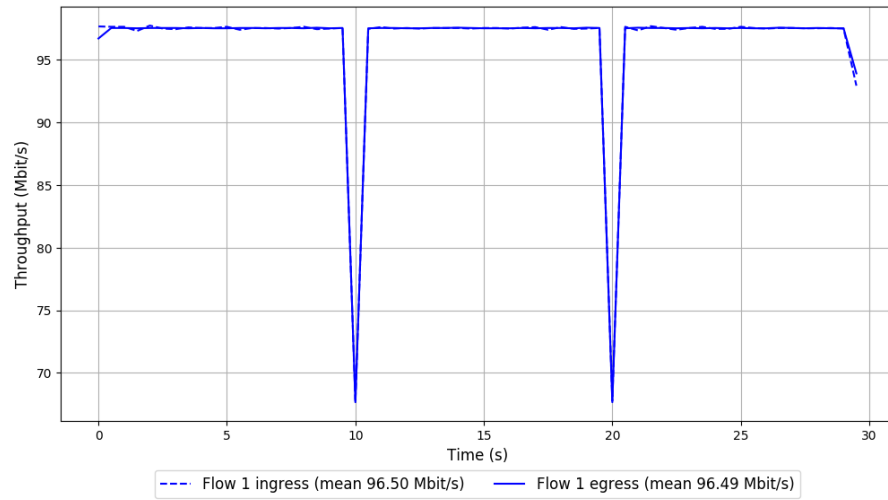
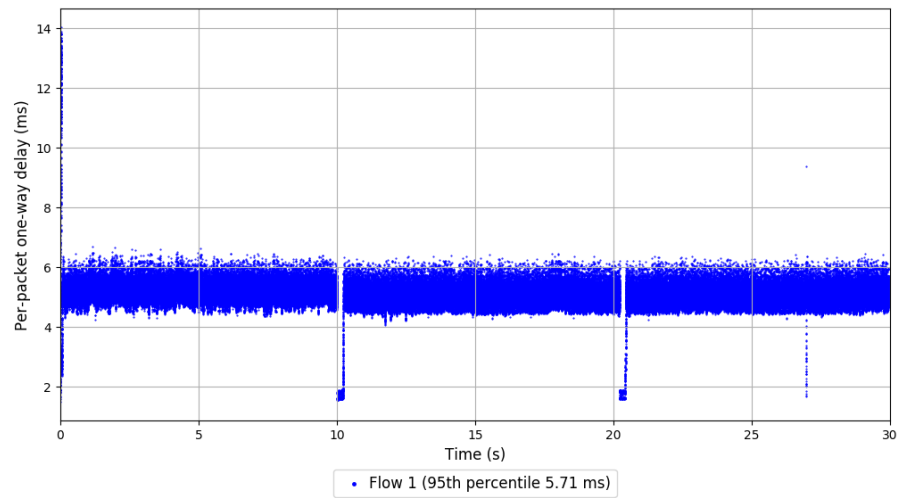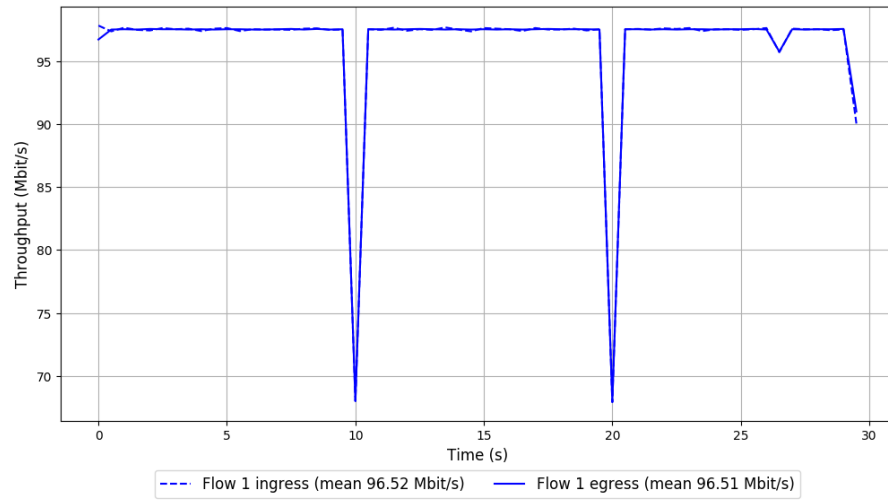Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.35 Mbit/s) ----- Flow 1 egress (mean 96.33 Mbit/s)

Flow 1 (95th percentile 7.43 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2018-04-17 05:30:06
End at: 2018-04-17 05:30:36
Local clock offset: -6.914 ms
Remote clock offset: -6.473 ms


# Below is generated by plot.py at 2018-04-17 08:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 5.781 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.49 Mbit/s
95th percentile per-packet one-way delay: 5.781 ms
Loss rate: 0.00%
```

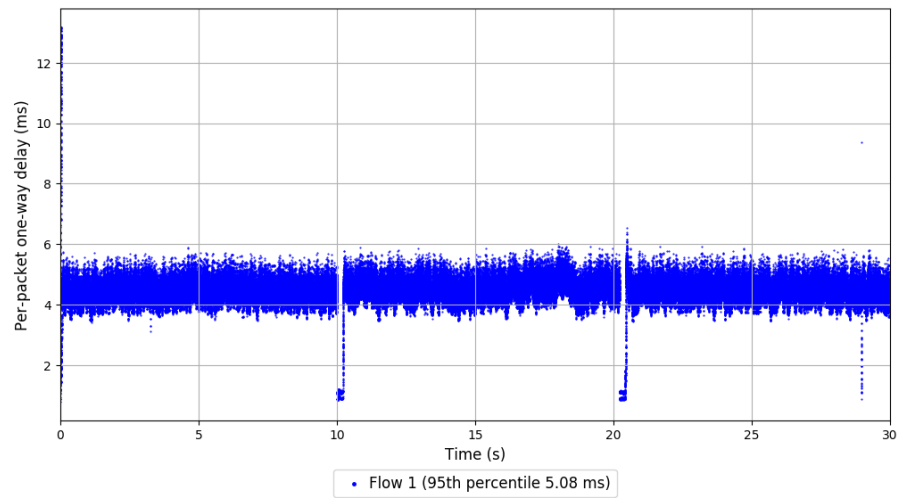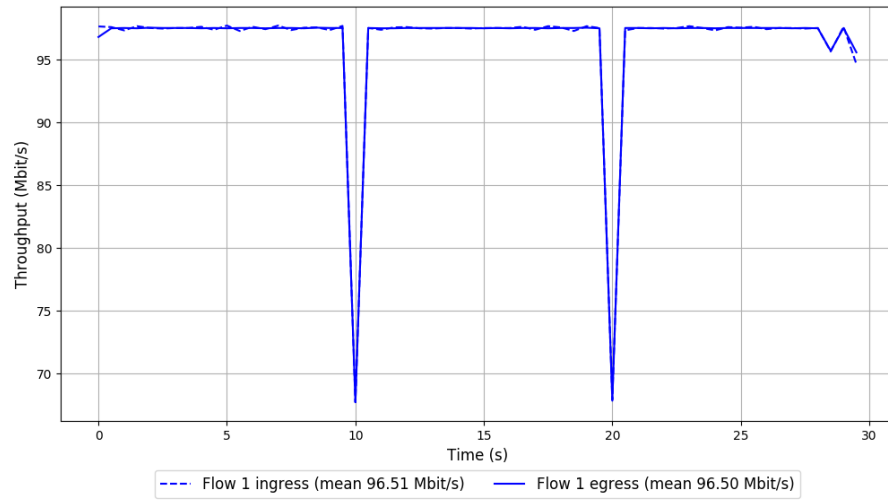# Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.50 Mbit/s)   Flow 1 egress (mean 96.49 Mbit/s)

Flow 1 (95th percentile 5.78 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2018-04-17 05:49:08
End at: 2018-04-17 05:49:38
Local clock offset: -6.839 ms
Remote clock offset: -6.638 ms


# Below is generated by plot.py at 2018-04-17 08:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 5.713 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 5.713 ms
Loss rate: 0.00%
```
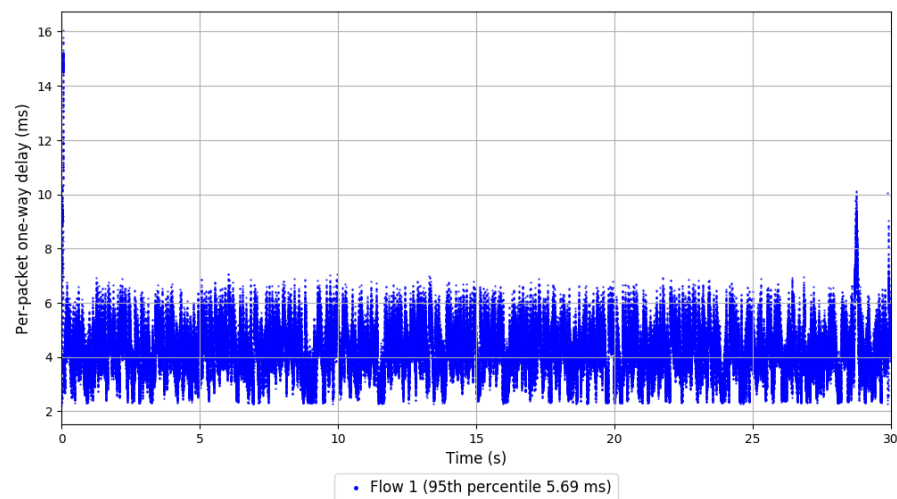
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2018-04-17 06:08:08
End at: 2018-04-17 06:08:38
Local clock offset: -6.004 ms
Remote clock offset: -6.768 ms


# Below is generated by plot.py at 2018-04-17 08:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 5.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 5.078 ms
Loss rate: 0.00%
```
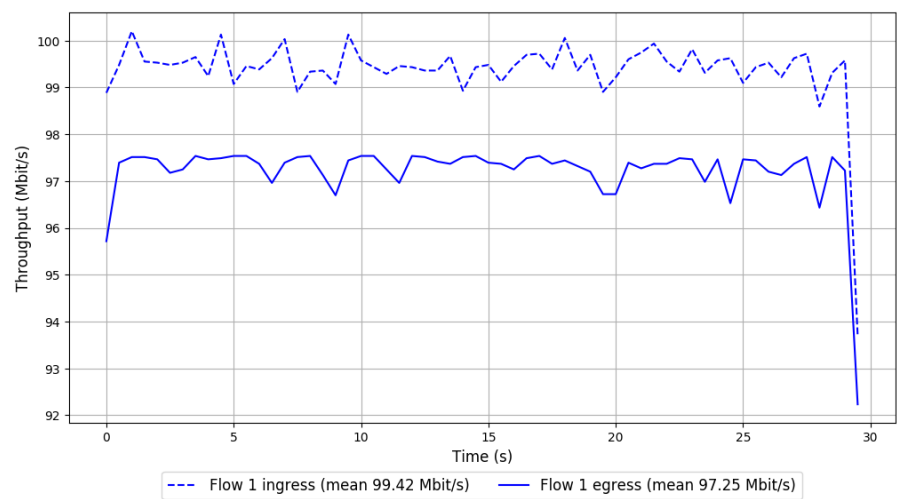
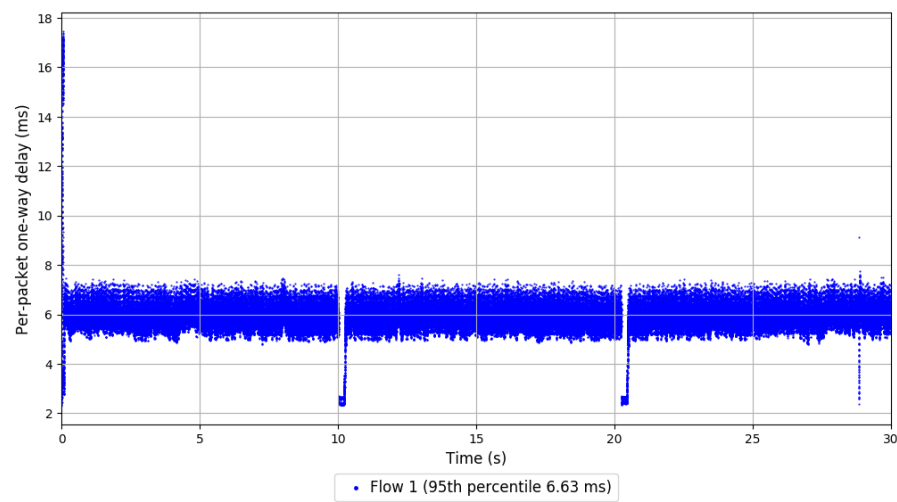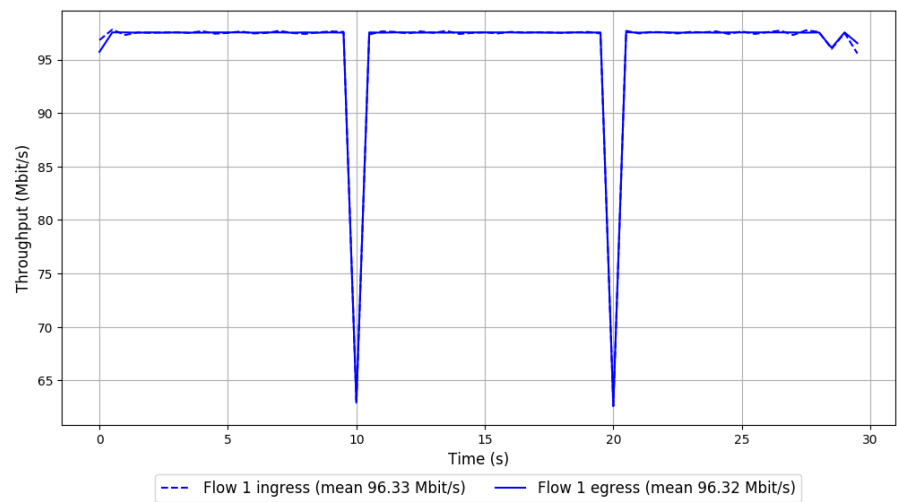# Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.51 Mbit/s)   Flow 1 egress (mean 96.50 Mbit/s)

Flow 1 (95th percentile 5.08 ms)

```
Run 6: Statistics of TCP BBR

Start at: 2018-04-17 06:27:09
End at: 2018-04-17 06:27:39
Local clock offset: -5.941 ms
Remote clock offset: -7.061 ms


# Below is generated by plot.py at 2018-04-17 08:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.25 Mbit/s
95th percentile per-packet one-way delay: 5.693 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 97.25 Mbit/s
95th percentile per-packet one-way delay: 5.693 ms
Loss rate: 2.18%
```

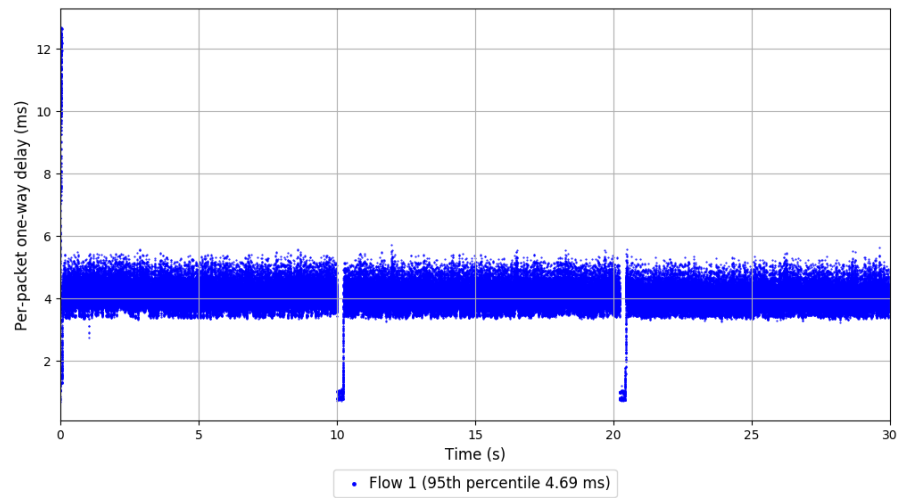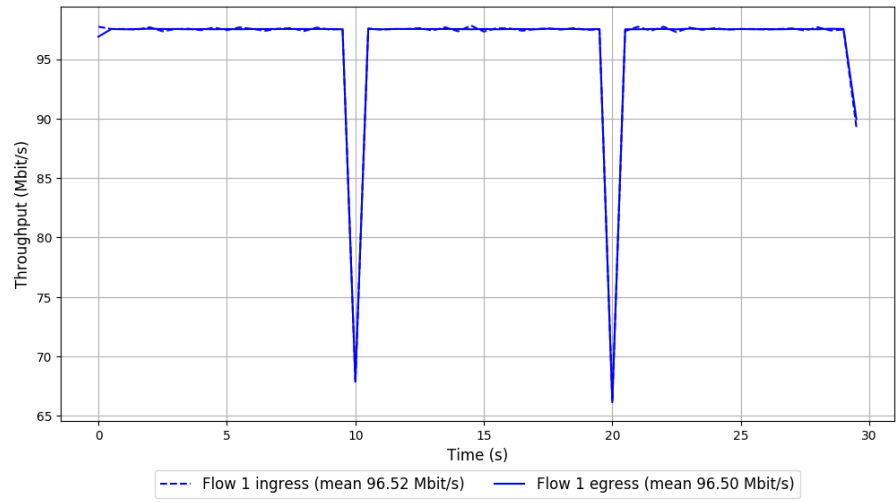Run 6: Report of TCP BBR — Data Link

```
Run 7: Statistics of TCP BBR

Start at: 2018-04-17 06:46:12
End at: 2018-04-17 06:46:42
Local clock offset: -6.021 ms
Remote clock offset: -7.239 ms


# Below is generated by plot.py at 2018-04-17 08:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 6.635 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.32 Mbit/s
95th percentile per-packet one-way delay: 6.635 ms
Loss rate: 0.00%
```

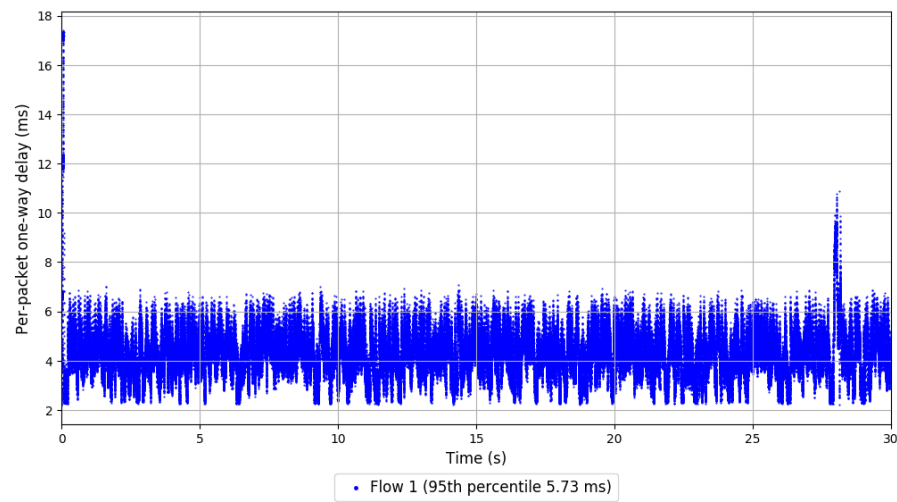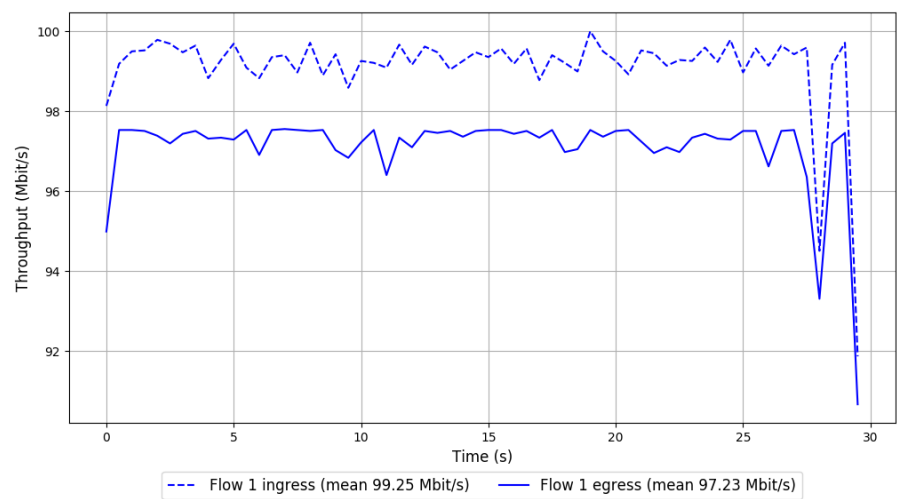# Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.33 Mbit/s) --- Flow 1 egress (mean 96.32 Mbit/s)
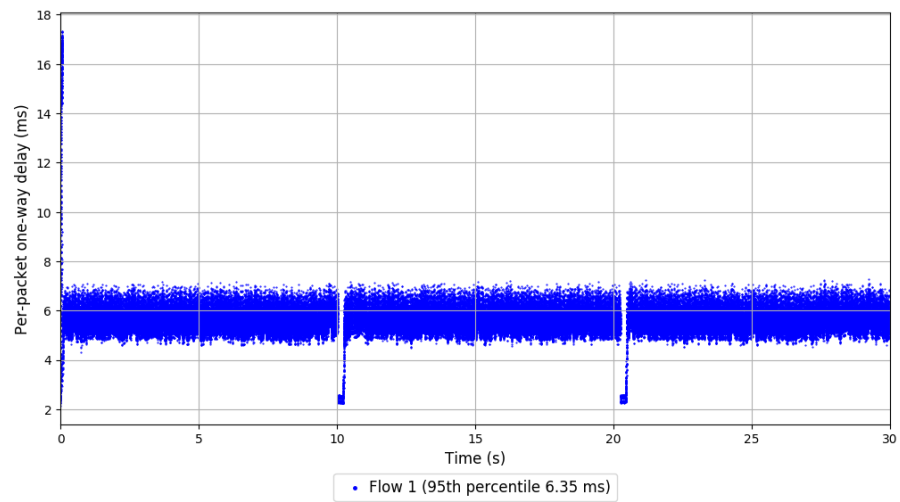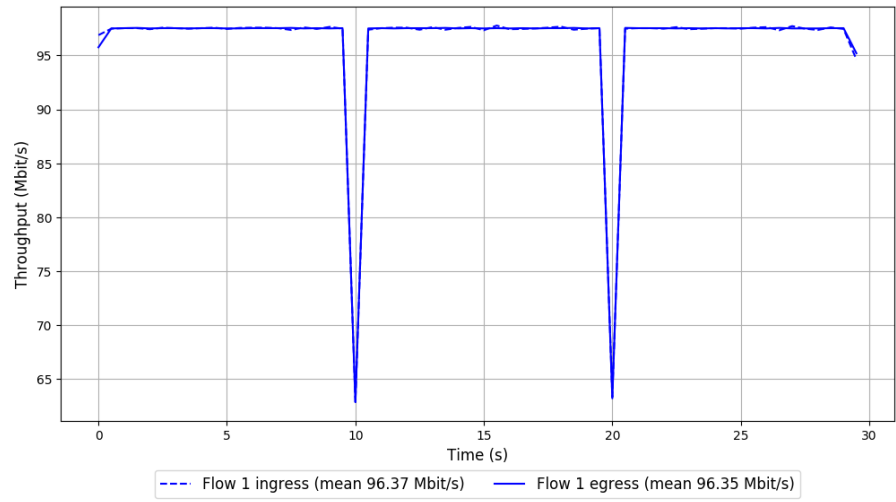

Flow 1 (95th percentile 6.63 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-04-17 07:05:16
End at: 2018-04-17 07:05:46
Local clock offset: -5.961 ms
Remote clock offset: -6.649 ms


# Below is generated by plot.py at 2018-04-17 08:12:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 4.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 4.692 ms
Loss rate: 0.00%
```

Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.52 Mbit/s) ----- Flow 1 egress (mean 96.50 Mbit/s)

Flow 1 (95th percentile 4.69 ms)

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```
Run 9: Statistics of TCP BBR

Start at: 2018-04-17 07:24:17
End at: 2018-04-17 07:24:47
Local clock offset: -5.858 ms
Remote clock offset: -6.557 ms


# Below is generated by plot.py at 2018-04-17 08:14:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 5.727 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 97.23 Mbit/s
95th percentile per-packet one-way delay: 5.727 ms
Loss rate: 2.03%
```

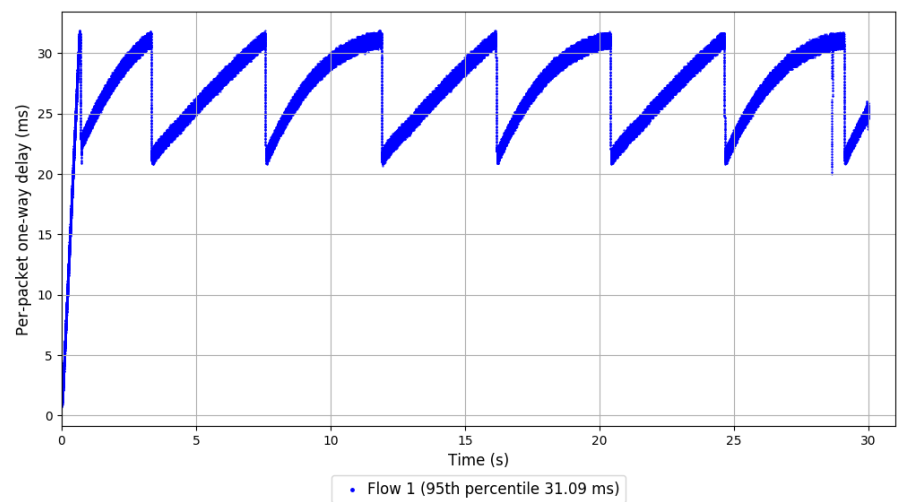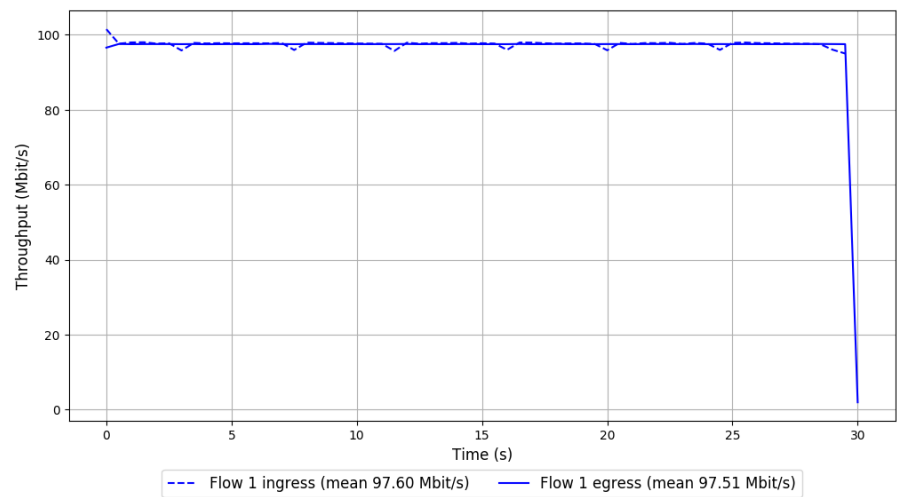Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 99.25 Mbit/s) — — — — Flow 1 egress (mean 97.23 Mbit/s)

Flow 1 (95th percentile 5.73 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-04-17 07:43:15
End at: 2018-04-17 07:43:45
Local clock offset: -5.856 ms
Remote clock offset: -6.567 ms

# Below is generated by plot.py at 2018-04-17 08:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 6.349 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 96.35 Mbit/s
95th percentile per-packet one-way delay: 6.349 ms
Loss rate: 0.01%
```

Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 96.37 Mbit/s) — Flow 1 egress (mean 96.35 Mbit/s)

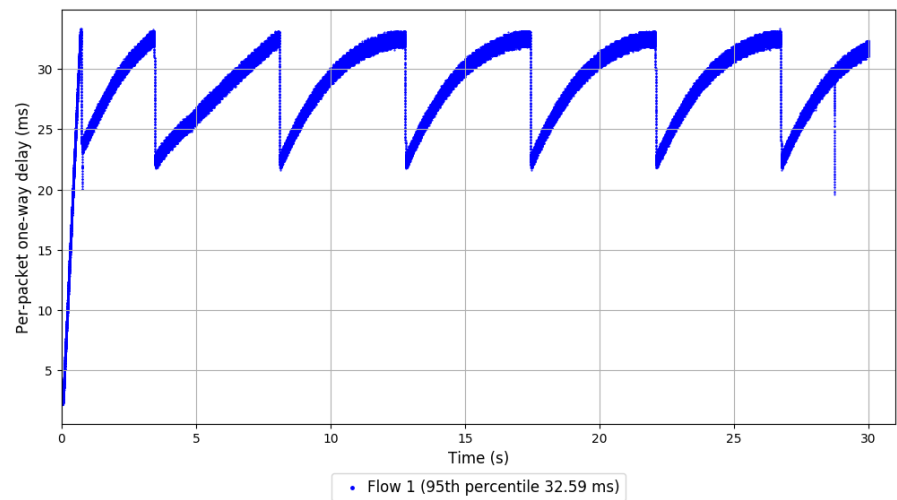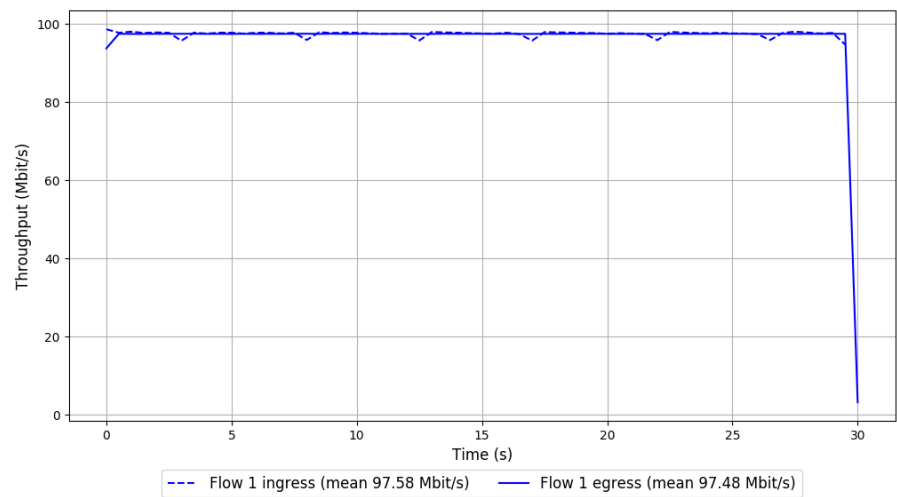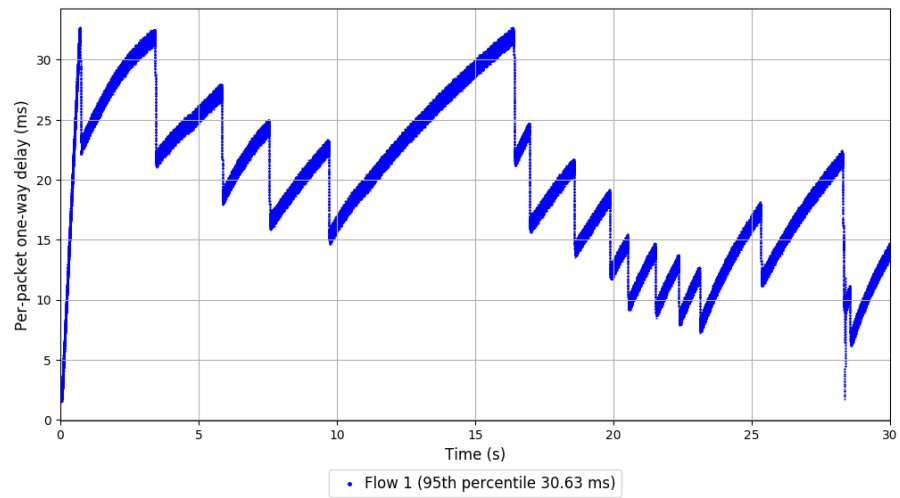Flow 1 (95th percentile 6.35 ms)

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```
Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 04:39:38
End at: 2018-04-17 04:40:08
Local clock offset: -5.827 ms
Remote clock offset: -6.931 ms


# Below is generated by plot.py at 2018-04-17 08:14:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 31.087 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 31.087 ms
Loss rate: 0.01%
```
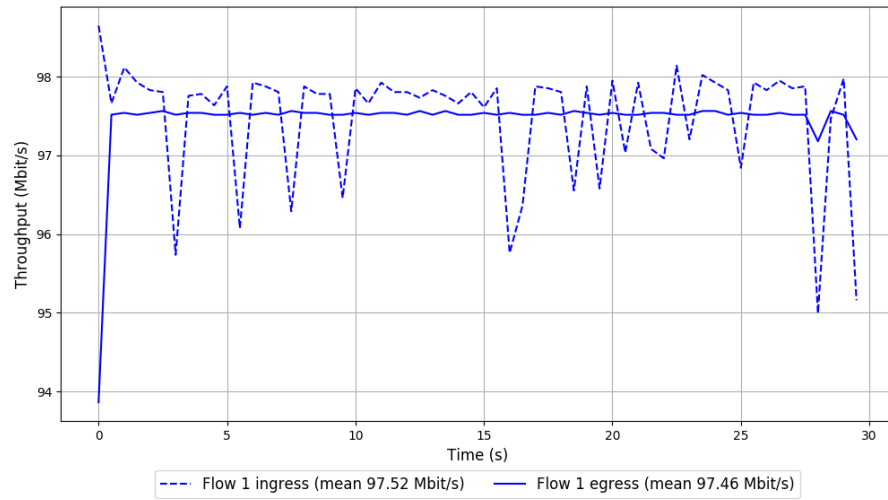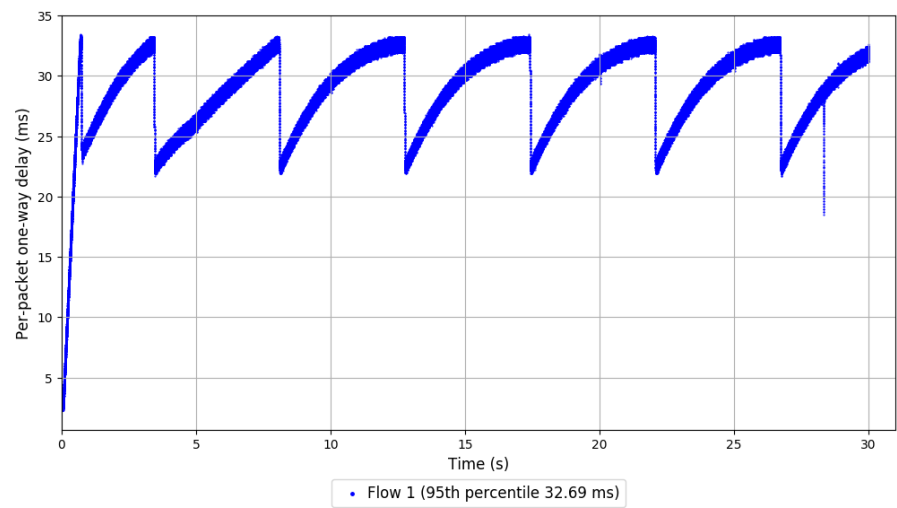
Run 1: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.60 Mbit/s)   Flow 1 egress (mean 97.51 Mbit/s)

Flow 1 (95th percentile 31.09 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 04:58:40
End at: 2018-04-17 04:59:10
Local clock offset: -5.973 ms
Remote clock offset: -6.953 ms

# Below is generated by plot.py at 2018-04-17 08:14:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.591 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.591 ms
Loss rate: 0.01%
```
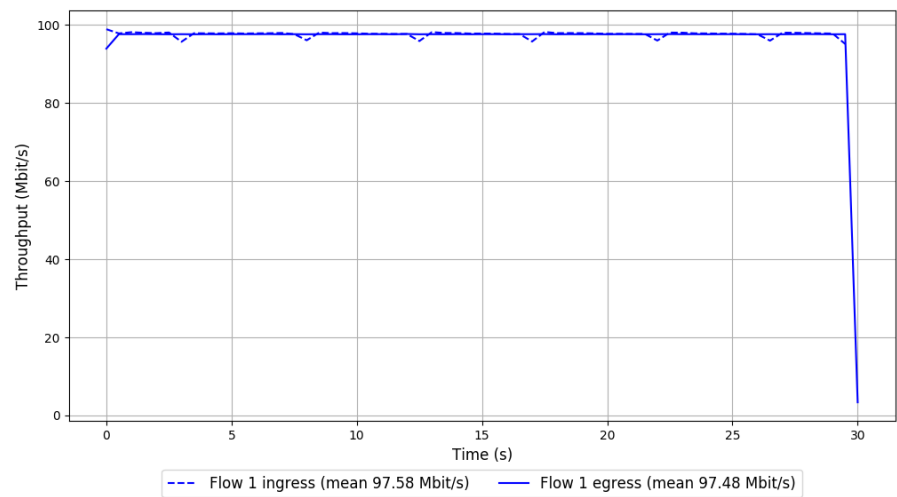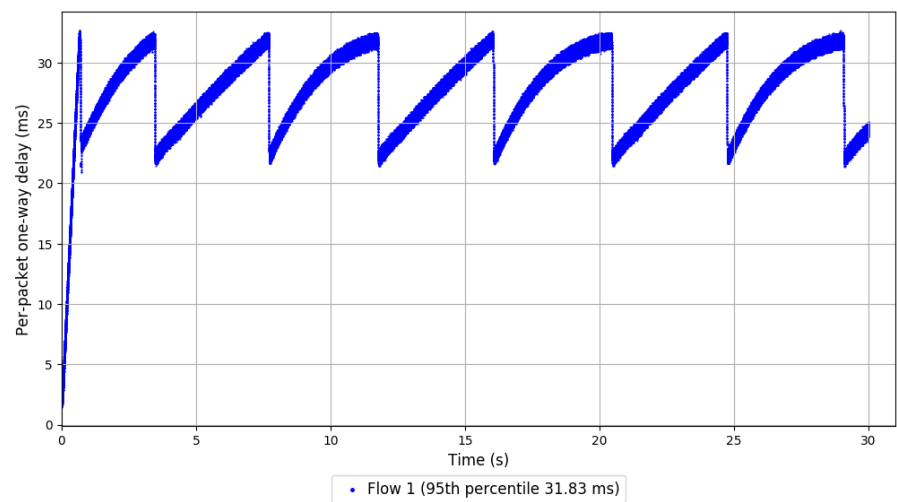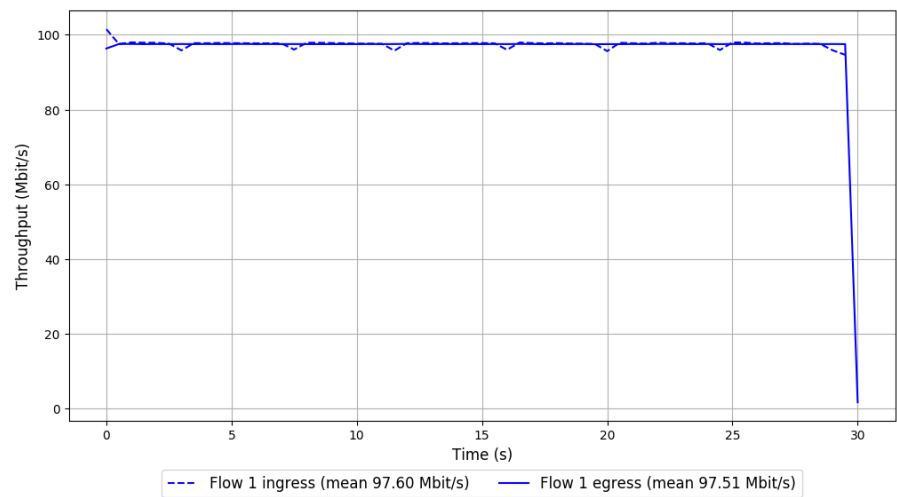
Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.58 Mbit/s) —— Flow 1 egress (mean 97.48 Mbit/s)

• Flow 1 (95th percentile 32.59 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 05:17:42
End at: 2018-04-17 05:18:12
Local clock offset: -5.372 ms
Remote clock offset: -6.606 ms


# Below is generated by plot.py at 2018-04-17 08:14:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 30.626 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.46 Mbit/s
95th percentile per-packet one-way delay: 30.626 ms
Loss rate: 0.02%
```
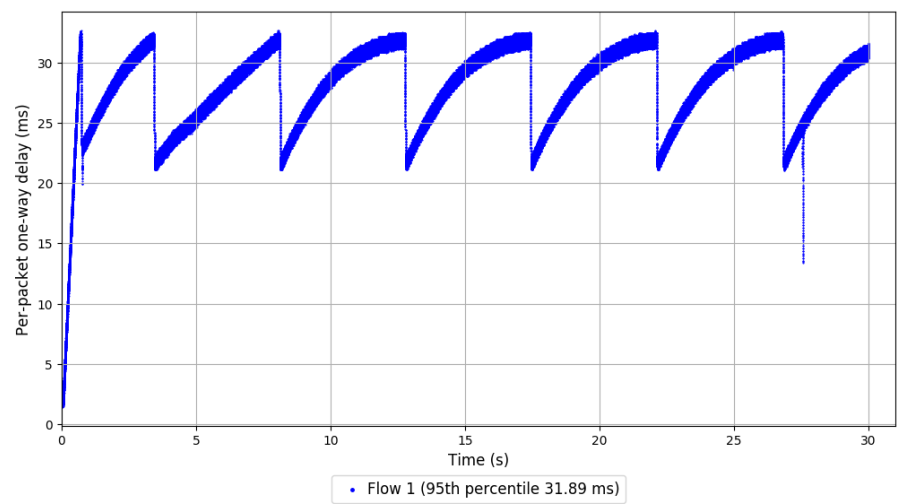
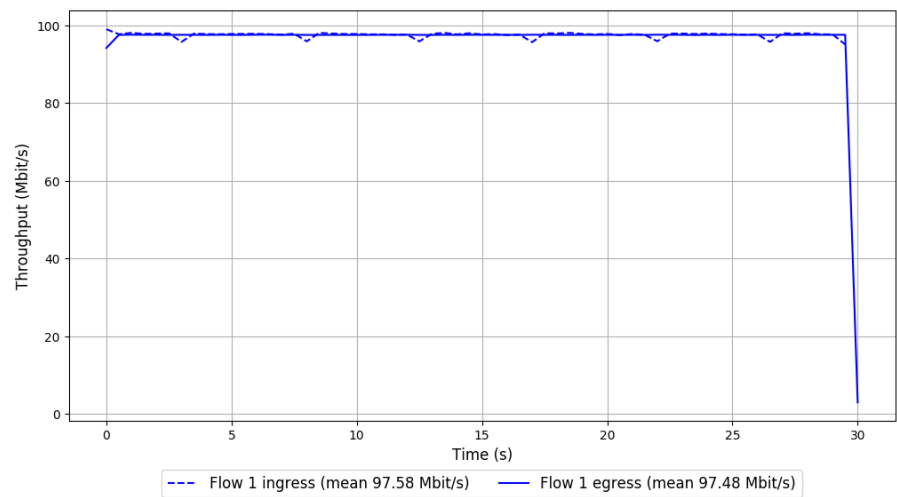Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 05:36:47
End at: 2018-04-17 05:37:17
Local clock offset: -6.053 ms
Remote clock offset: -6.453 ms


# Below is generated by plot.py at 2018-04-17 08:14:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.690 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 32.690 ms
Loss rate: 0.01%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.58 Mbit/s)   Flow 1 egress (mean 97.48 Mbit/s)

Flow 1 (95th percentile 32.69 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 05:55:48
End at: 2018-04-17 05:56:18
Local clock offset: -6.781 ms
Remote clock offset: -6.703 ms


# Below is generated by plot.py at 2018-04-17 08:14:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 31.833 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 31.833 ms
Loss rate: 0.01%
```
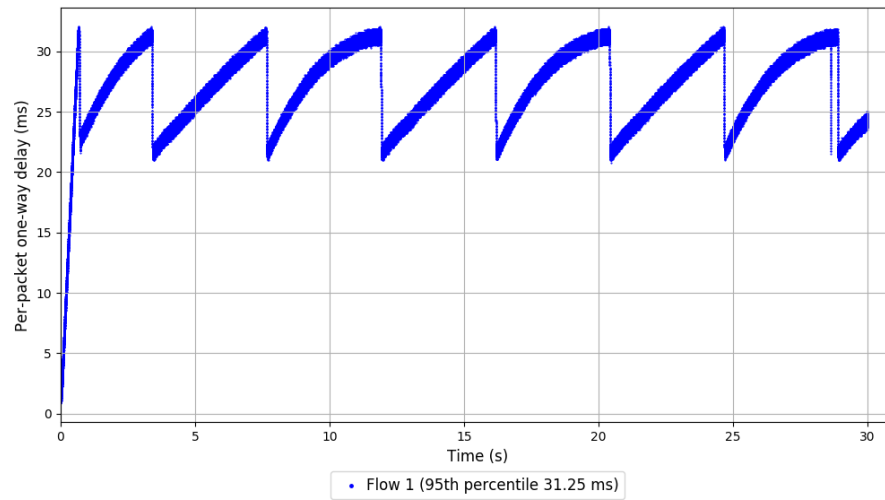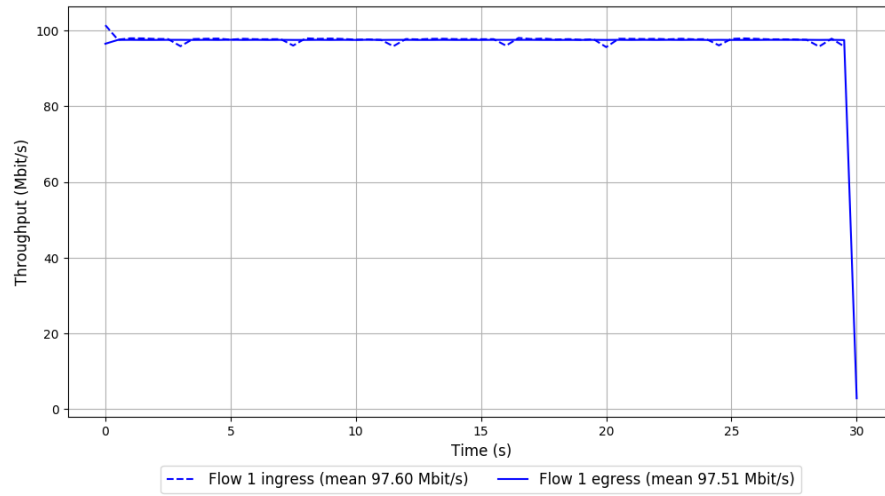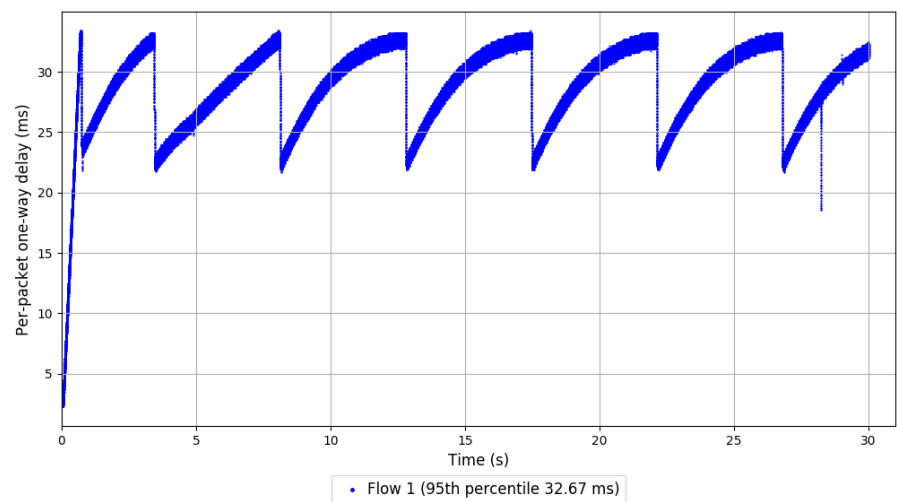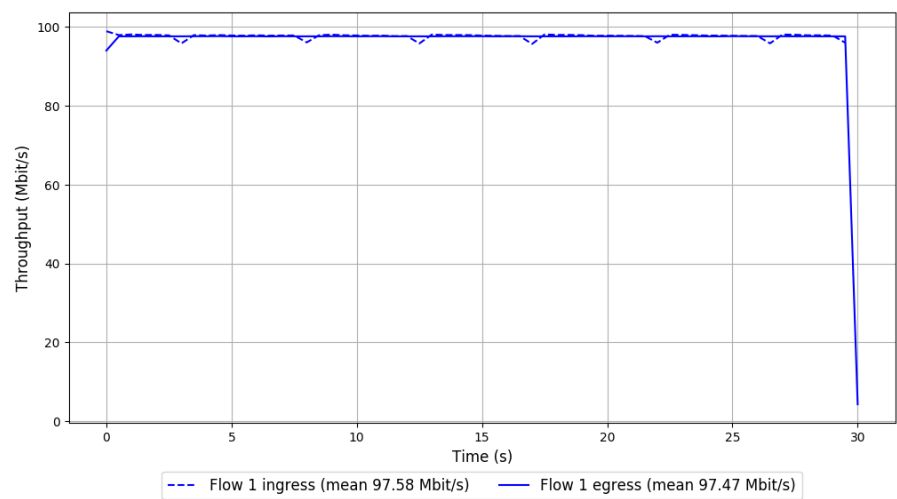
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.60 Mbit/s)   Flow 1 egress (mean 97.51 Mbit/s)

• Flow 1 (95th percentile 31.83 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 06:14:49
End at: 2018-04-17 06:15:19
Local clock offset: -5.219 ms
Remote clock offset: -6.928 ms


# Below is generated by plot.py at 2018-04-17 08:14:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 31.893 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.48 Mbit/s
95th percentile per-packet one-way delay: 31.893 ms
Loss rate: 0.01%
```
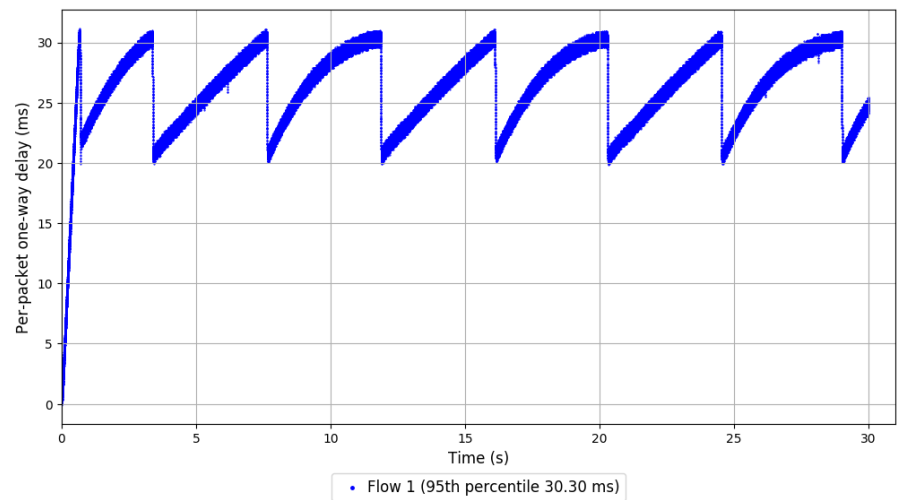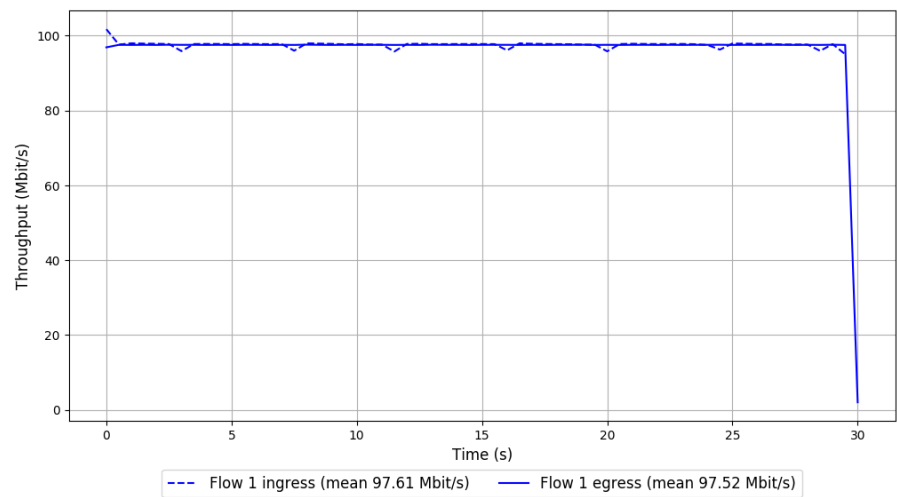
Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.58 Mbit/s)   —— Flow 1 egress (mean 97.48 Mbit/s)

• Flow 1 (95th percentile 31.89 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 06:33:50
End at: 2018-04-17 06:34:20
Local clock offset: -6.051 ms
Remote clock offset: -7.13 ms


# Below is generated by plot.py at 2018-04-17 08:15:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 31.247 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.51 Mbit/s
95th percentile per-packet one-way delay: 31.247 ms
Loss rate: 0.01%
```
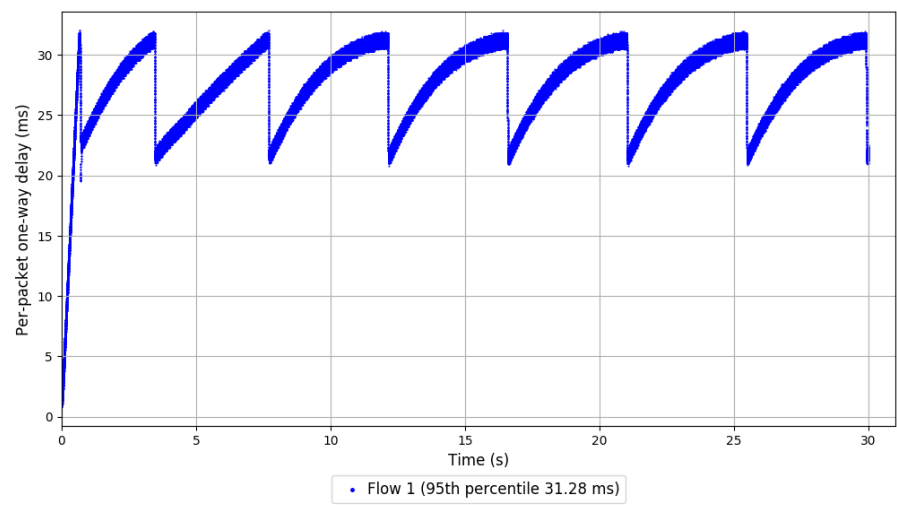
Run 7: Report of TCP Cubic — Data Link

```
Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 06:52:52
End at: 2018-04-17 06:53:22
Local clock offset: -5.965 ms
Remote clock offset: -6.925 ms


# Below is generated by plot.py at 2018-04-17 08:15:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.666 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 32.666 ms
Loss rate: 0.01%
```
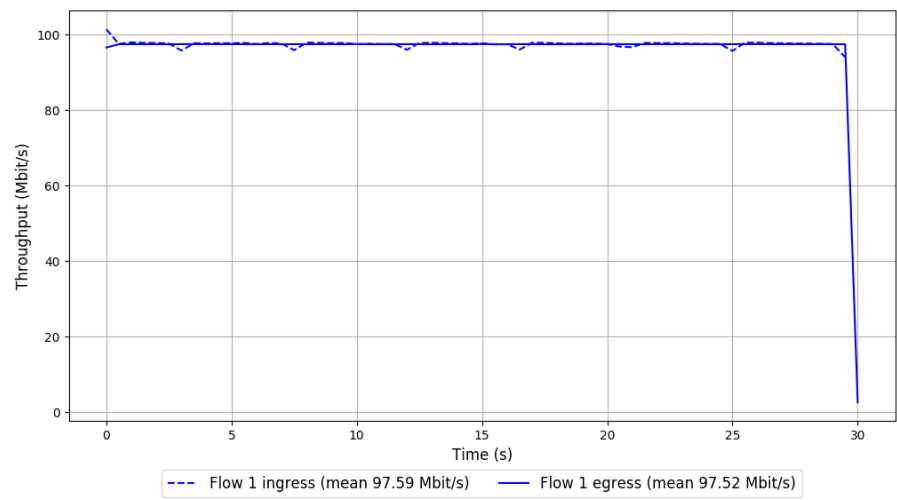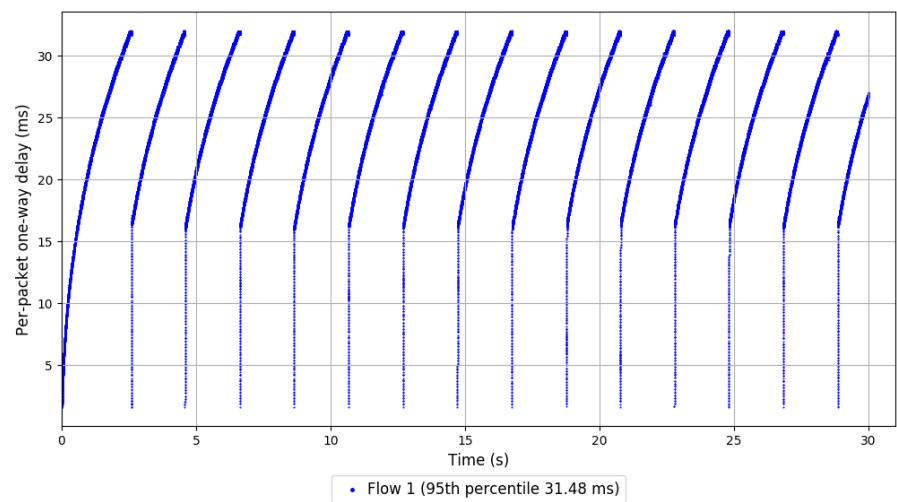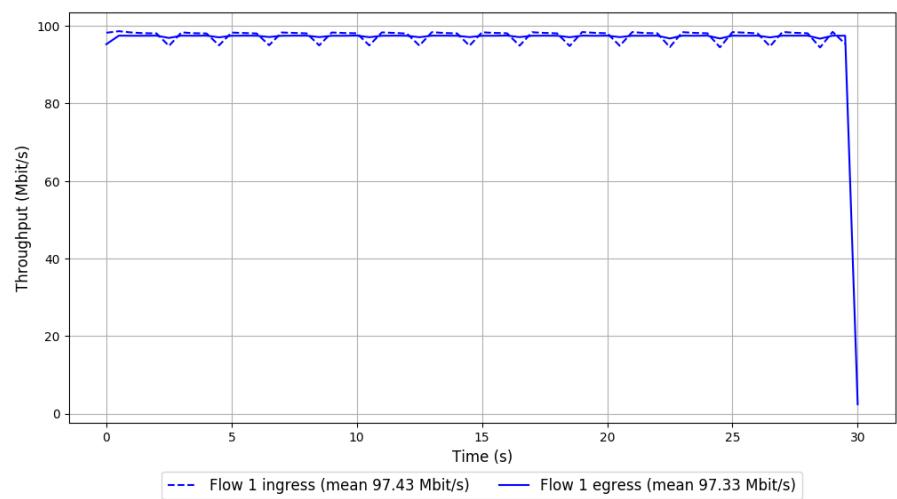
Run 8: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.58 Mbit/s)   Flow 1 egress (mean 97.47 Mbit/s)

Flow 1 (95th percentile 32.67 ms)

```
Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 07:11:56
End at: 2018-04-17 07:12:26
Local clock offset: -5.173 ms
Remote clock offset: -6.644 ms


# Below is generated by plot.py at 2018-04-17 08:15:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.52 Mbit/s
95th percentile per-packet one-way delay: 30.302 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.52 Mbit/s
95th percentile per-packet one-way delay: 30.302 ms
Loss rate: 0.01%
```
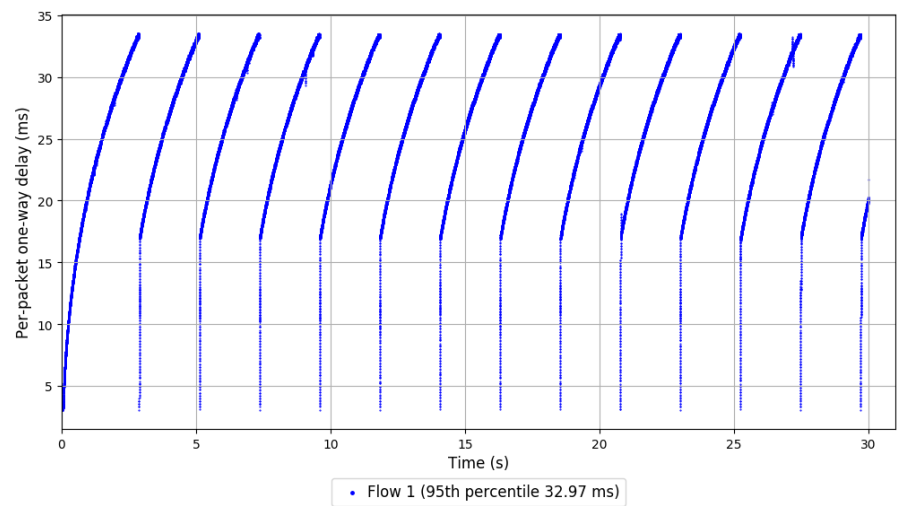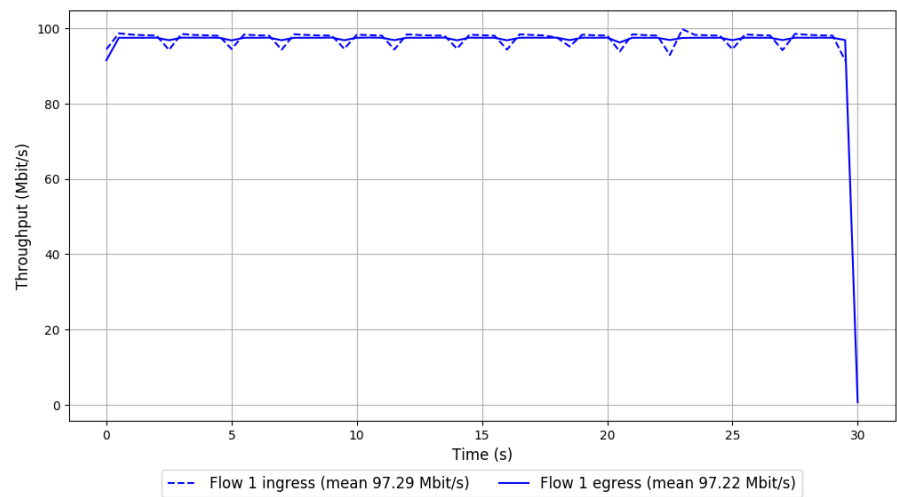
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.61 Mbit/s)   Flow 1 egress (mean 97.52 Mbit/s)

• Flow 1 (95th percentile 30.30 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 07:30:59
End at: 2018-04-17 07:31:29
Local clock offset: -5.953 ms
Remote clock offset: -6.526 ms


# Below is generated by plot.py at 2018-04-17 08:15:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.52 Mbit/s
95th percentile per-packet one-way delay: 31.283 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.52 Mbit/s
95th percentile per-packet one-way delay: 31.283 ms
Loss rate: 0.01%
```
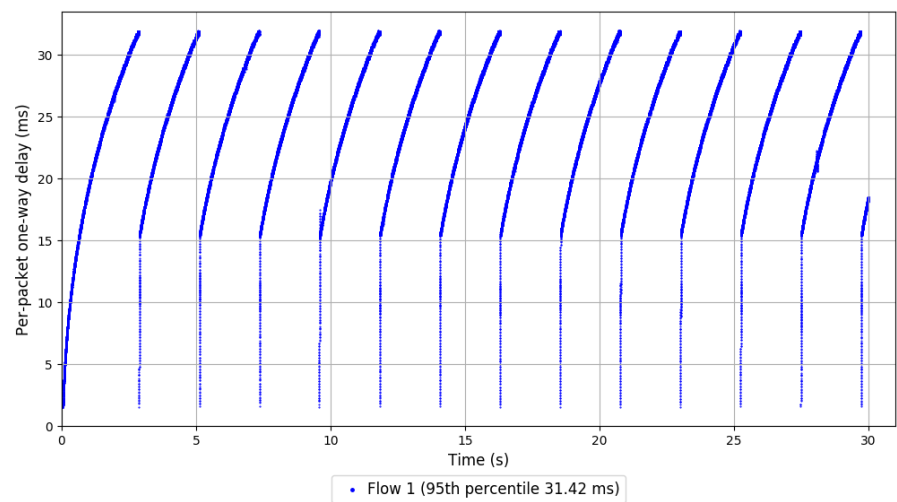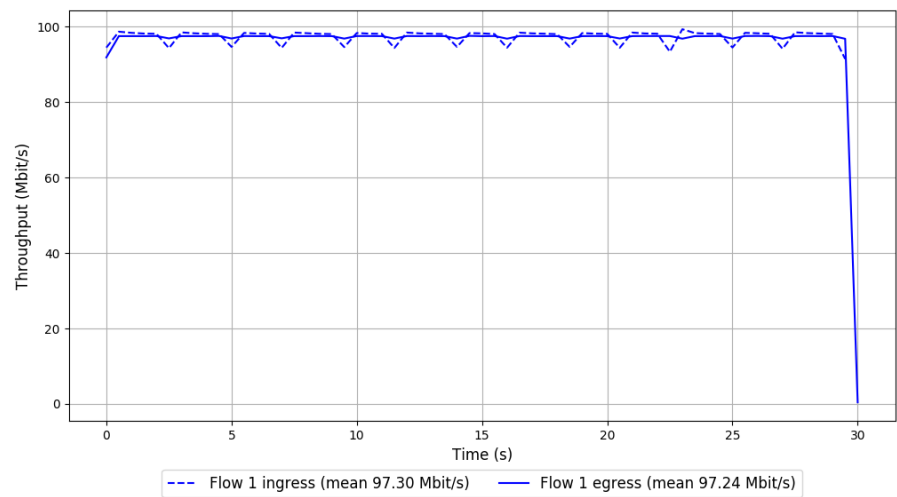
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 97.59 Mbit/s)   Flow 1 egress (mean 97.52 Mbit/s)

Flow 1 (95th percentile 31.28 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 04:42:56
End at: 2018-04-17 04:43:26
Local clock offset: -6.664 ms
Remote clock offset: -6.879 ms


# Below is generated by plot.py at 2018-04-17 08:15:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 31.483 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.33 Mbit/s
95th percentile per-packet one-way delay: 31.483 ms
Loss rate: 0.01%
```

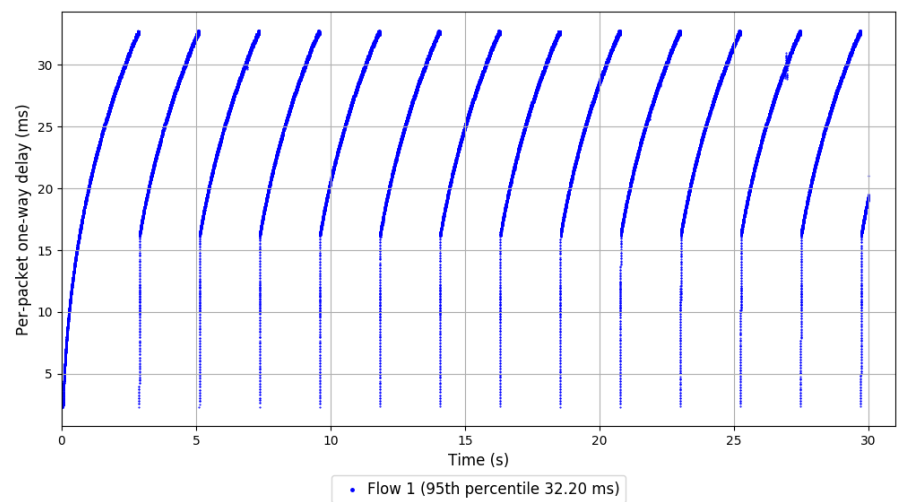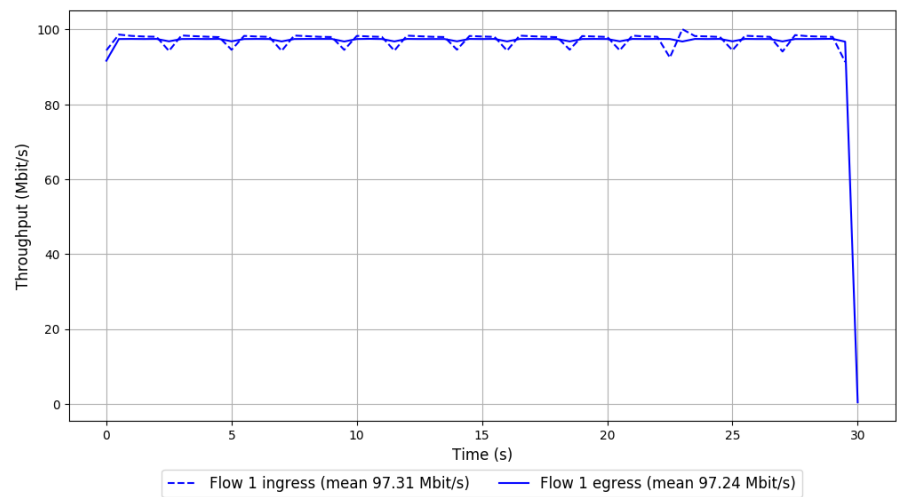# Run 1: Report of LEDBAT — Data Link

45

```
Run 2: Statistics of LEDBAT

Start at: 2018-04-17 05:01:58
End at: 2018-04-17 05:02:28
Local clock offset: -6.832 ms
Remote clock offset: -6.912 ms


# Below is generated by plot.py at 2018-04-17 08:15:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 32.973 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 32.973 ms
Loss rate: 0.01%
```

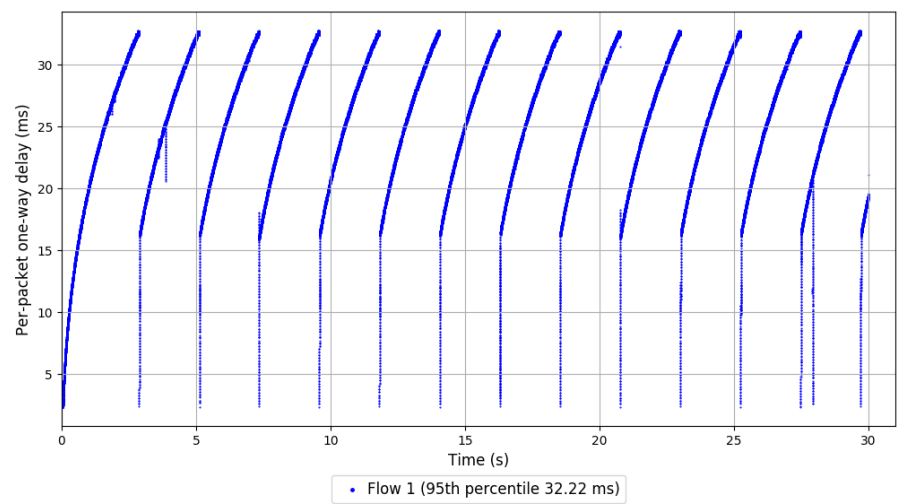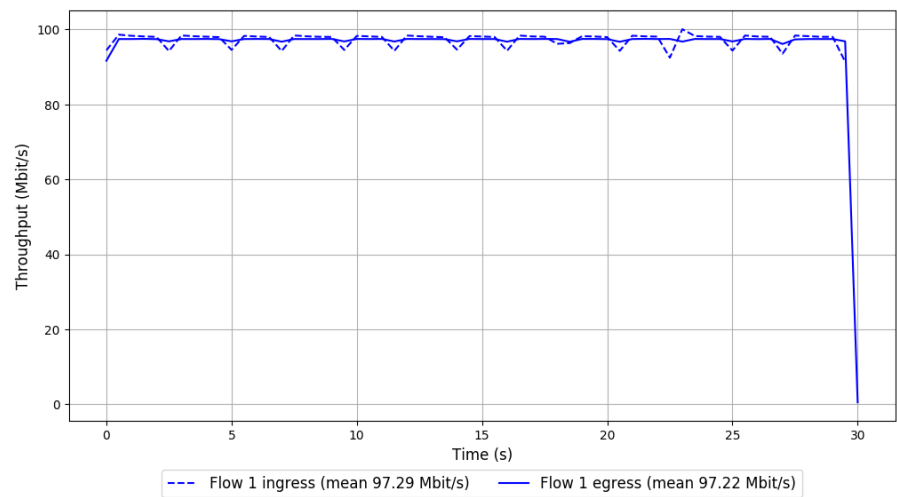Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.29 Mbit/s)   Flow 1 egress (mean 97.22 Mbit/s)

Flow 1 (95th percentile 32.97 ms)

47

```
Run 3: Statistics of LEDBAT

Start at: 2018-04-17 05:21:00
End at: 2018-04-17 05:21:30
Local clock offset: -5.391 ms
Remote clock offset: -6.569 ms


# Below is generated by plot.py at 2018-04-17 08:15:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 31.417 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 31.417 ms
Loss rate: 0.02%
```

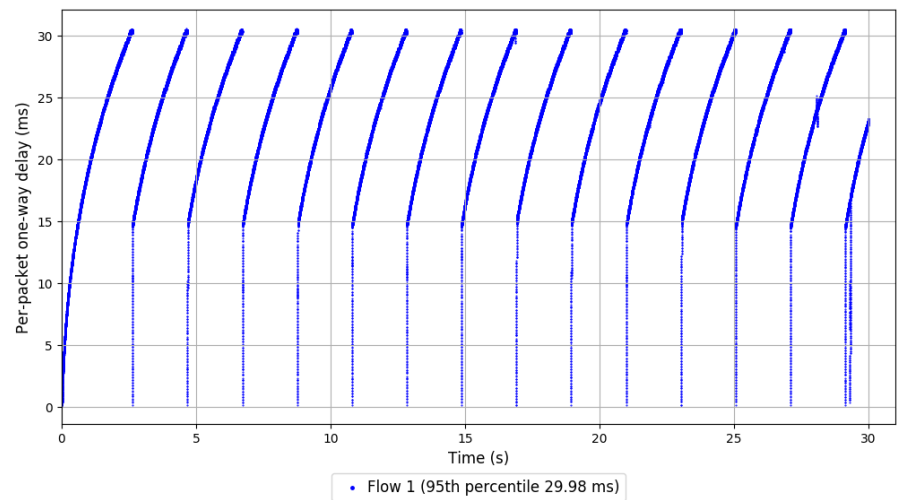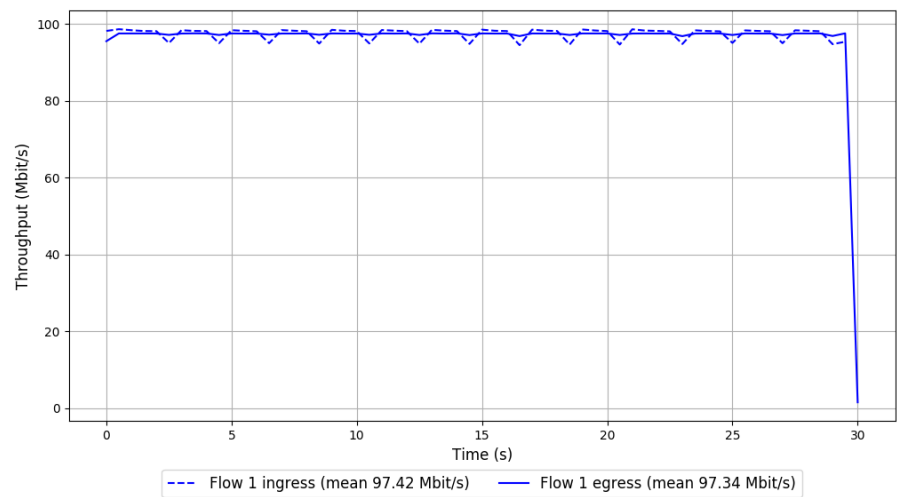Run 3: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.30 Mbit/s)   Flow 1 egress (mean 97.24 Mbit/s)

• Flow 1 (95th percentile 31.42 ms)

```
Run 4: Statistics of LEDBAT

Start at: 2018-04-17 05:40:05
End at: 2018-04-17 05:40:35
Local clock offset: -6.035 ms
Remote clock offset: -6.474 ms


# Below is generated by plot.py at 2018-04-17 08:15:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 32.197 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.24 Mbit/s
95th percentile per-packet one-way delay: 32.197 ms
Loss rate: 0.02%
```

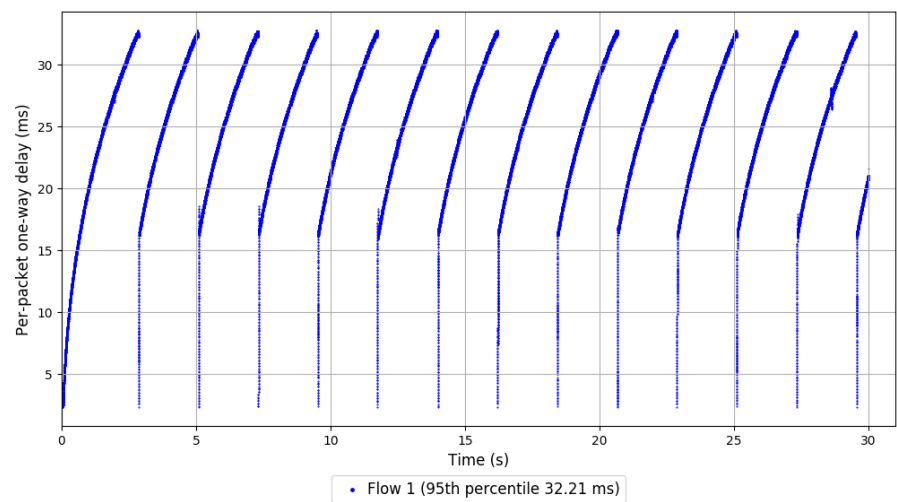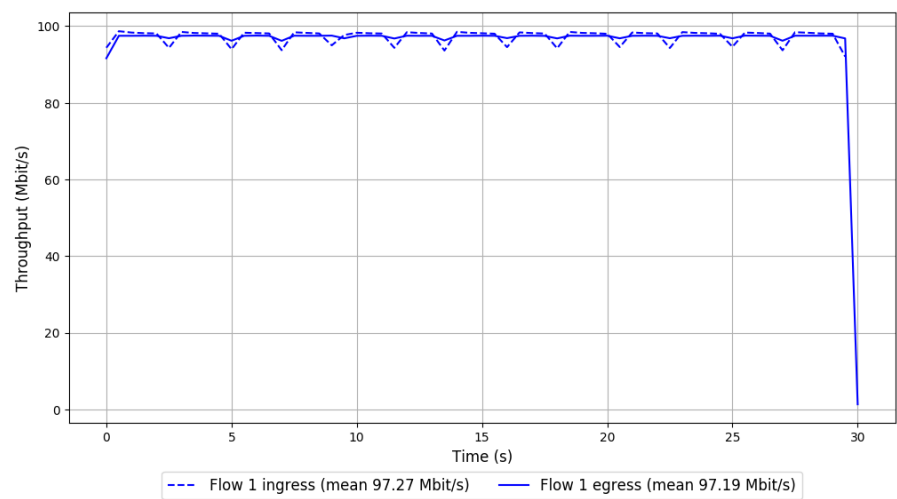# Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.31 Mbit/s)   Flow 1 egress (mean 97.24 Mbit/s)

Flow 1 (95th percentile 32.20 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2018-04-17 05:59:06
End at: 2018-04-17 05:59:36
Local clock offset: -6.068 ms
Remote clock offset: -6.715 ms


# Below is generated by plot.py at 2018-04-17 08:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 32.224 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 32.224 ms
Loss rate: 0.02%
```

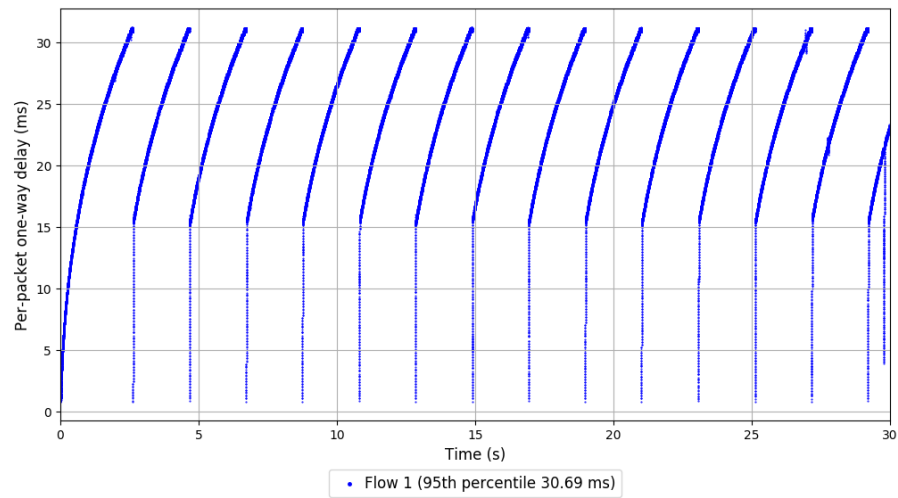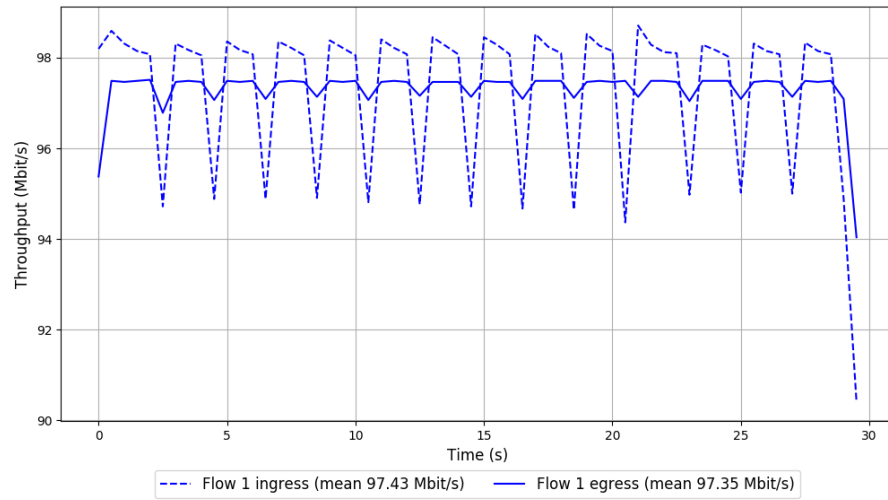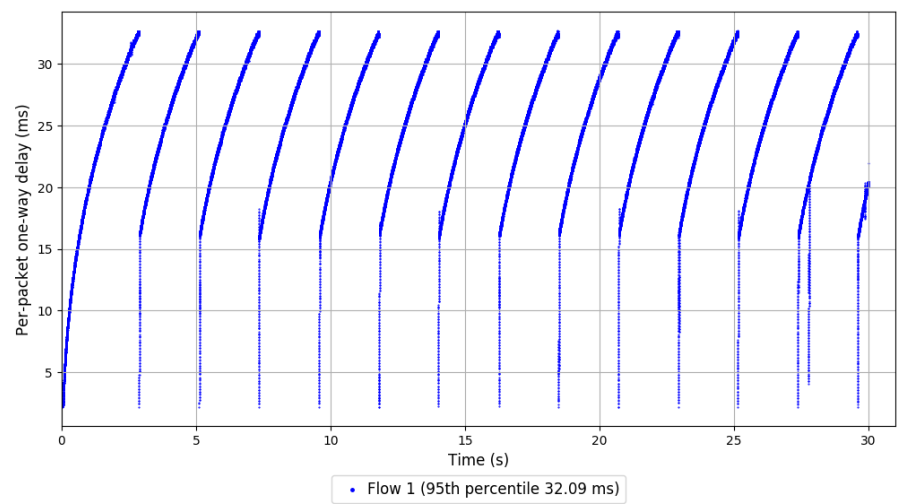# Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.29 Mbit/s)   Flow 1 egress (mean 97.22 Mbit/s)

• Flow 1 (95th percentile 32.22 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2018-04-17 06:18:07
End at: 2018-04-17 06:18:37
Local clock offset: -5.22 ms
Remote clock offset: -6.908 ms


# Below is generated by plot.py at 2018-04-17 08:17:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 29.978 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.34 Mbit/s
95th percentile per-packet one-way delay: 29.978 ms
Loss rate: 0.01%
```

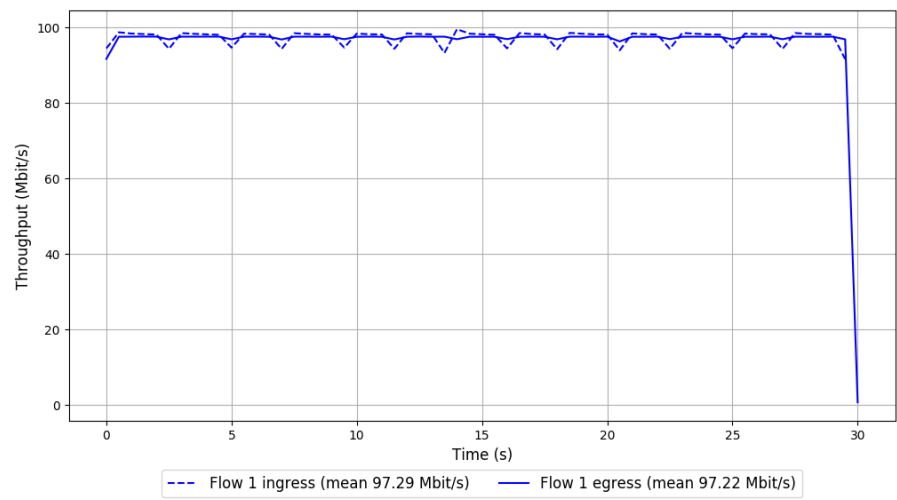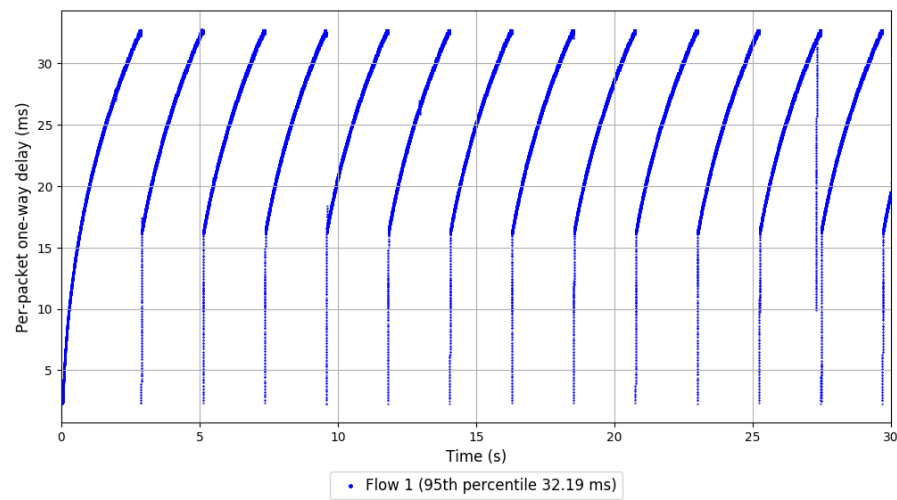Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.42 Mbit/s)   Flow 1 egress (mean 97.34 Mbit/s)

Flow 1 (95th percentile 29.98 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2018-04-17 06:37:08
End at: 2018-04-17 06:37:38
Local clock offset: -5.986 ms
Remote clock offset: -7.157 ms


# Below is generated by plot.py at 2018-04-17 08:17:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 32.210 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.19 Mbit/s
95th percentile per-packet one-way delay: 32.210 ms
Loss rate: 0.02%
```

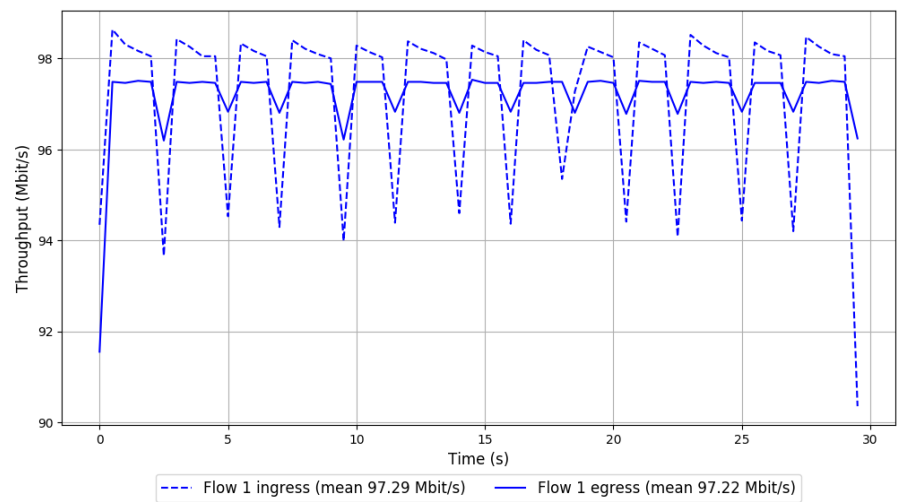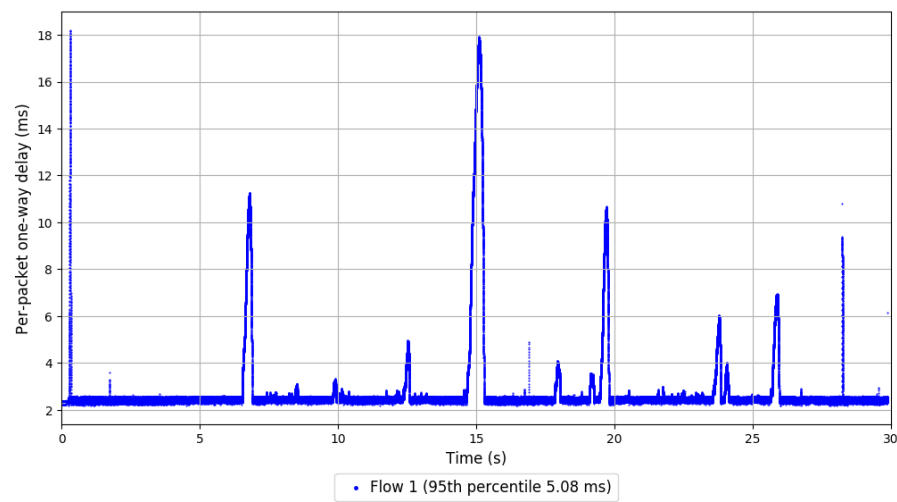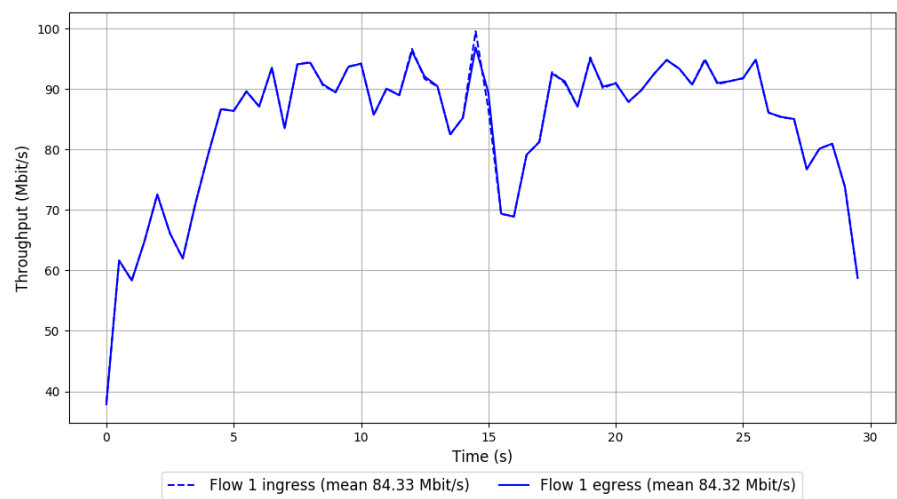## Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.27 Mbit/s)   Flow 1 egress (mean 97.19 Mbit/s)

Flow 1 (95th percentile 32.21 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2018-04-17 06:56:11
End at: 2018-04-17 06:56:41
Local clock offset: -5.969 ms
Remote clock offset: -6.814 ms

# Below is generated by plot.py at 2018-04-17 08:17:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 30.687 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.35 Mbit/s
95th percentile per-packet one-way delay: 30.687 ms
Loss rate: 0.01%
```

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.43 Mbit/s) ----   Flow 1 egress (mean 97.35 Mbit/s) ——

• Flow 1 (95th percentile 30.69 ms)

59

```
Run 9: Statistics of LEDBAT

Start at: 2018-04-17 07:15:14
End at: 2018-04-17 07:15:44
Local clock offset: -5.89 ms
Remote clock offset: -6.619 ms


# Below is generated by plot.py at 2018-04-17 08:17:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 32.093 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 32.093 ms
Loss rate: 0.02%
```
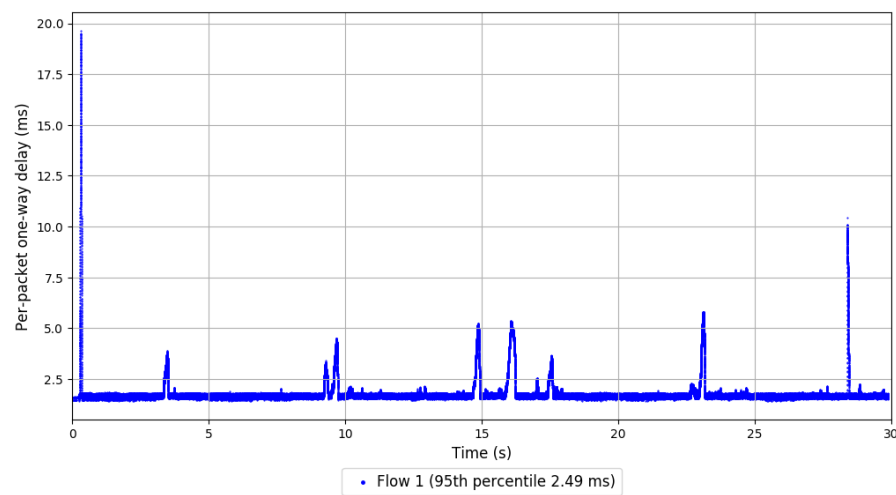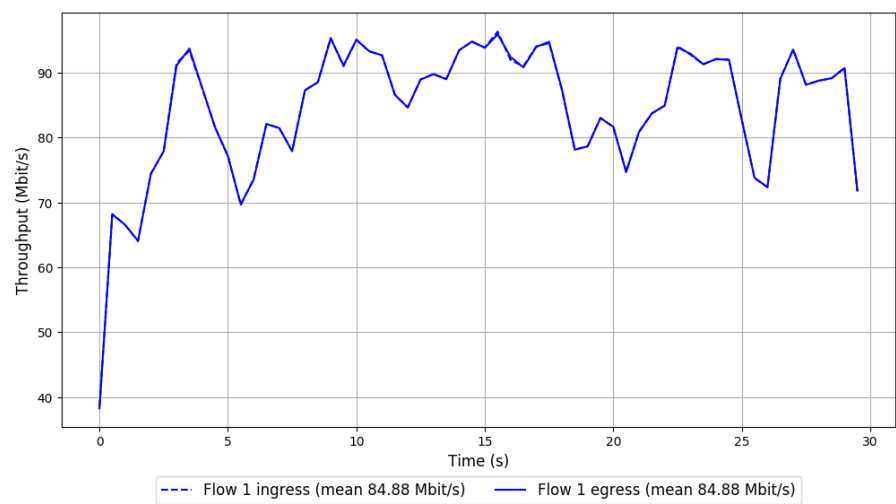
Run 9: Report of LEDBAT — Data Link

```
Run 10: Statistics of LEDBAT

Start at: 2018-04-17 07:34:17
End at: 2018-04-17 07:34:47
Local clock offset: -5.85 ms
Remote clock offset: -6.501 ms


# Below is generated by plot.py at 2018-04-17 08:17:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 32.188 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 97.22 Mbit/s
95th percentile per-packet one-way delay: 32.188 ms
Loss rate: 0.02%
```
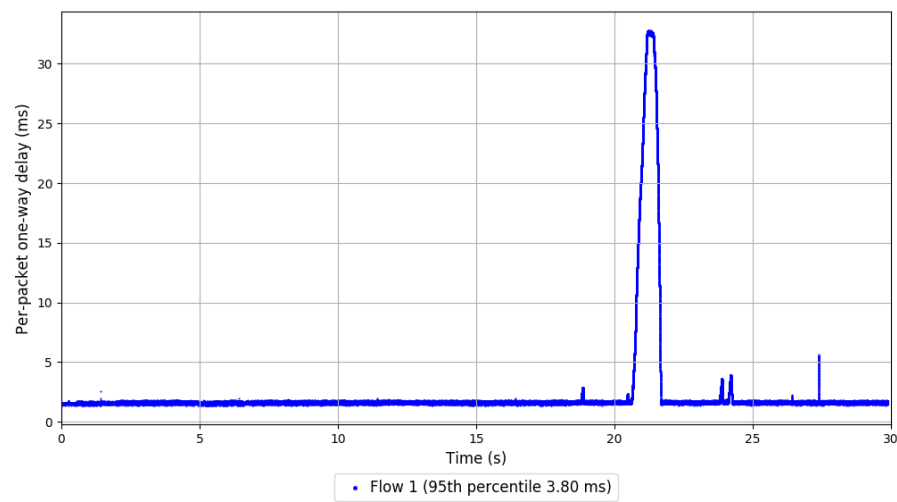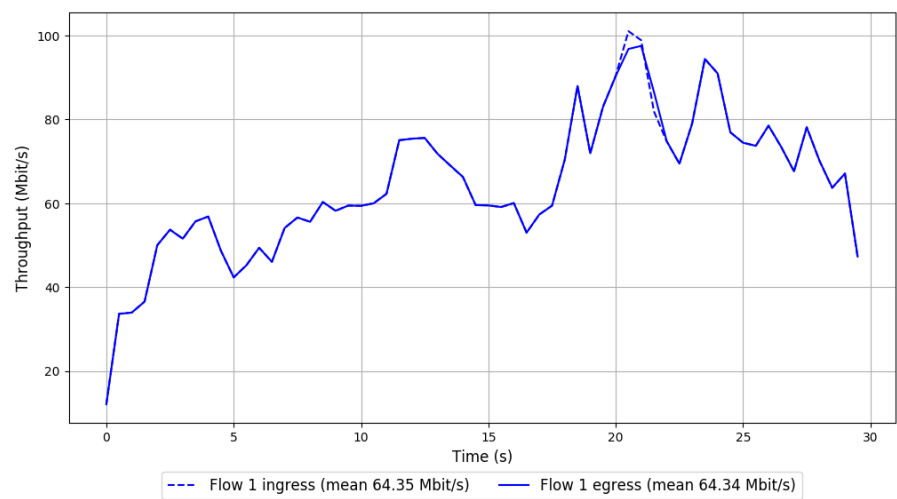
Run 10: Report of LEDBAT — Data Link

Flow 1 ingress (mean 97.29 Mbit/s) --- Flow 1 egress (mean 97.22 Mbit/s)
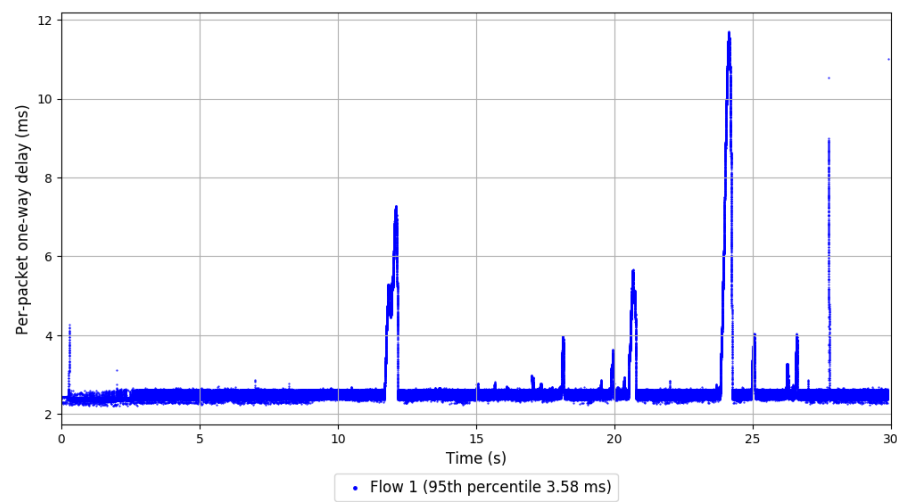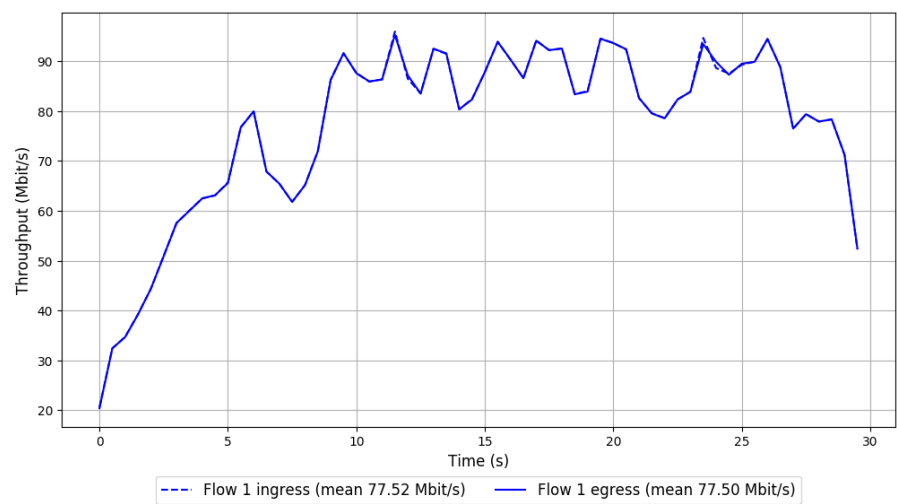

Flow 1 (95th percentile 32.19 ms)

```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 04:38:31
End at: 2018-04-17 04:39:01
Local clock offset: -5.842 ms
Remote clock offset: -6.881 ms


# Below is generated by plot.py at 2018-04-17 08:17:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.32 Mbit/s
95th percentile per-packet one-way delay: 5.084 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.32 Mbit/s
95th percentile per-packet one-way delay: 5.084 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 04:57:33
End at: 2018-04-17 04:58:03
Local clock offset: -5.224 ms
Remote clock offset: -6.878 ms


# Below is generated by plot.py at 2018-04-17 08:17:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 2.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 2.489 ms
Loss rate: 0.00%
```
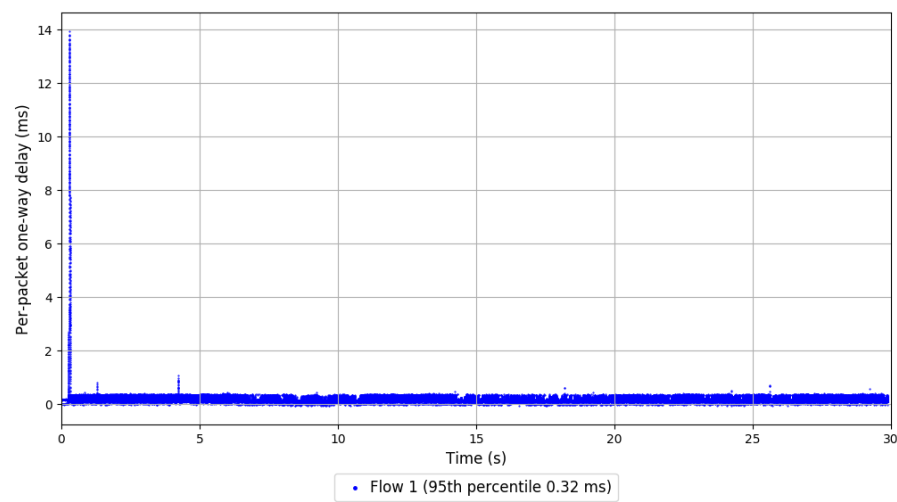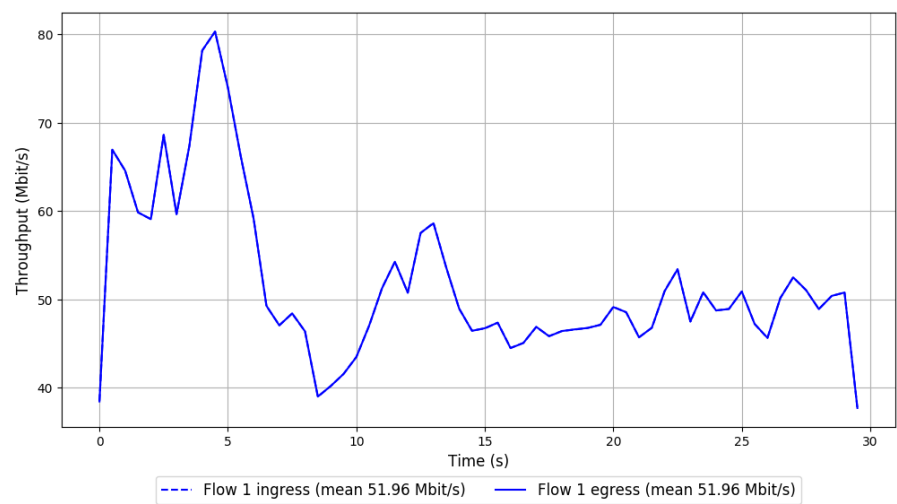
Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 05:16:37
End at: 2018-04-17 05:17:07
Local clock offset: -6.893 ms
Remote clock offset: -6.682 ms


# Below is generated by plot.py at 2018-04-17 08:18:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.34 Mbit/s
95th percentile per-packet one-way delay: 3.798 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 64.34 Mbit/s
95th percentile per-packet one-way delay: 3.798 ms
Loss rate: 0.02%
```
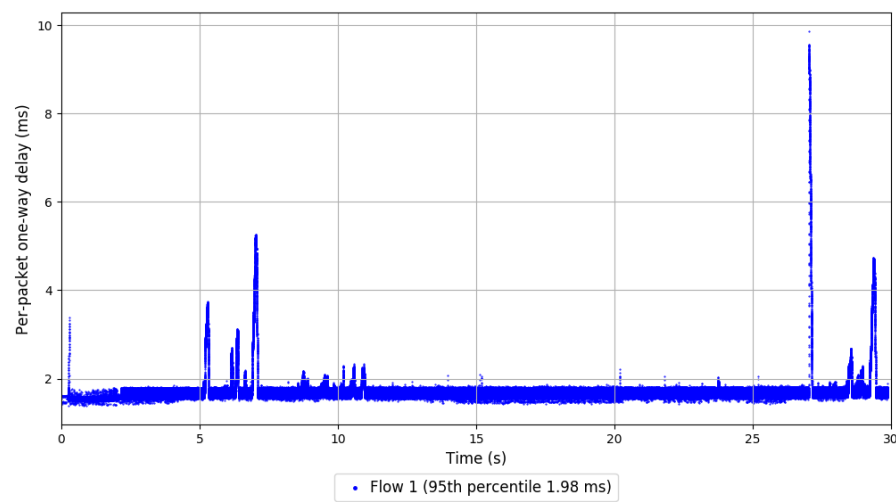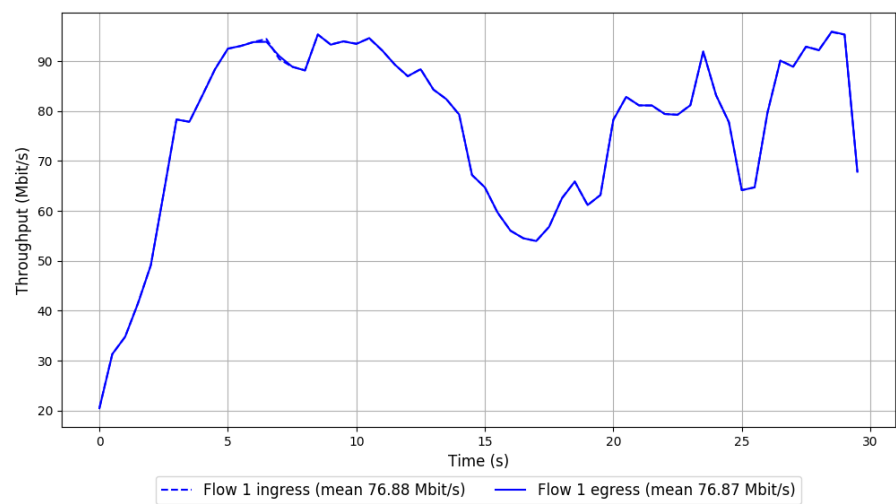
Run 3: Report of PCC-Allegro — Data Link

```
Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 05:35:41
End at: 2018-04-17 05:36:11
Local clock offset: -6.121 ms
Remote clock offset: -6.453 ms


# Below is generated by plot.py at 2018-04-17 08:18:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.50 Mbit/s
95th percentile per-packet one-way delay: 3.575 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 77.50 Mbit/s
95th percentile per-packet one-way delay: 3.575 ms
Loss rate: 0.01%
```
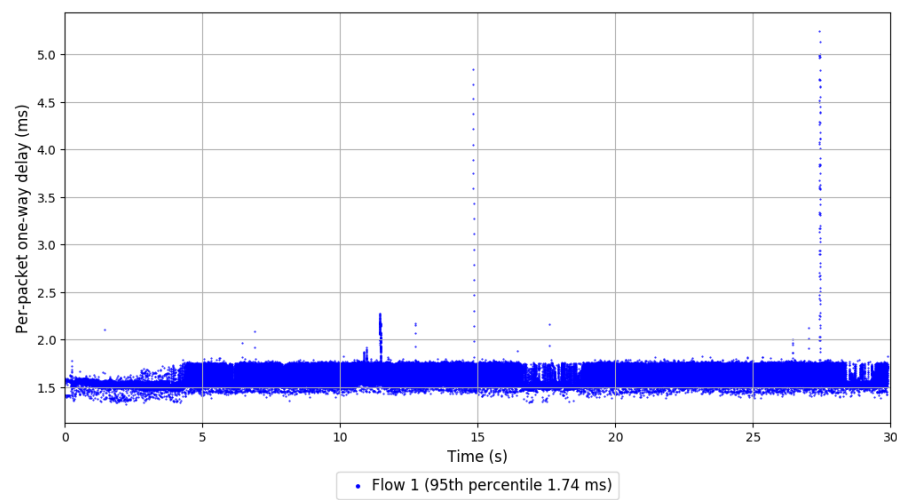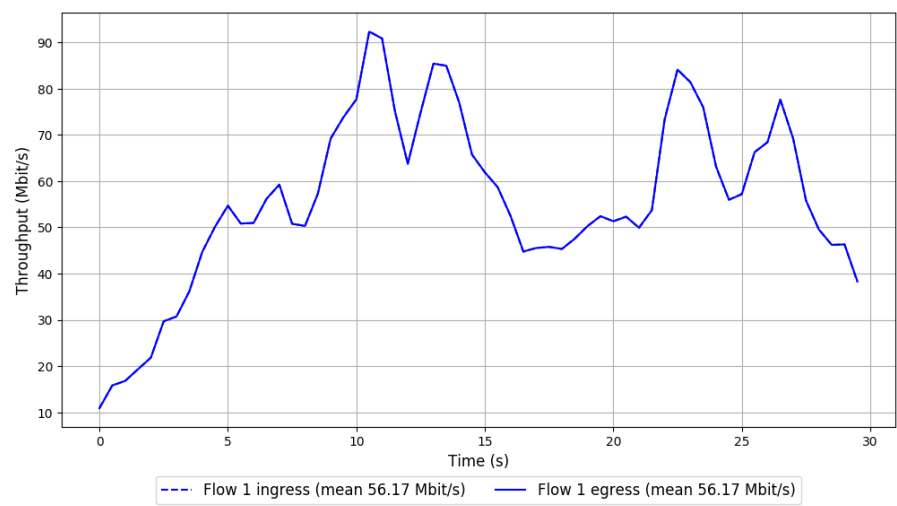
Run 4: Report of PCC-Allegro — Data Link

```
Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 05:54:43
End at: 2018-04-17 05:55:13
Local clock offset: -5.297 ms
Remote clock offset: -6.681 ms


# Below is generated by plot.py at 2018-04-17 08:18:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.96 Mbit/s
95th percentile per-packet one-way delay: 0.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.96 Mbit/s
95th percentile per-packet one-way delay: 0.321 ms
Loss rate: 0.00%
```
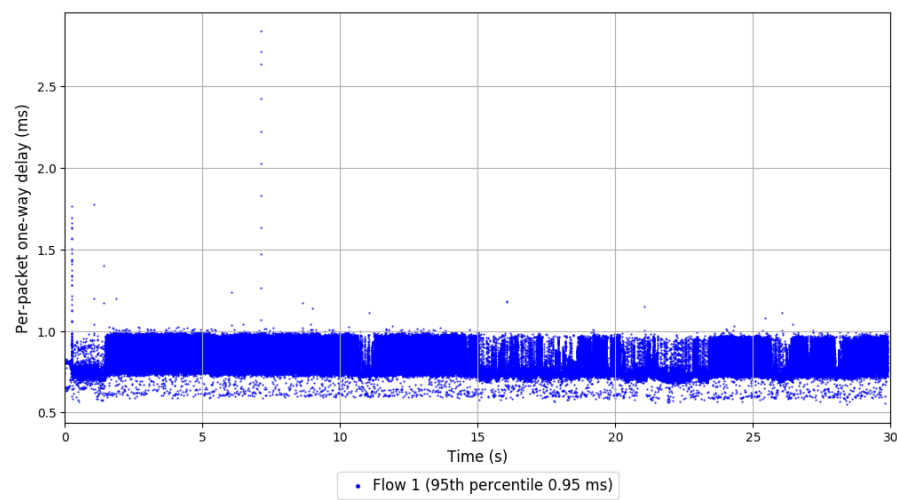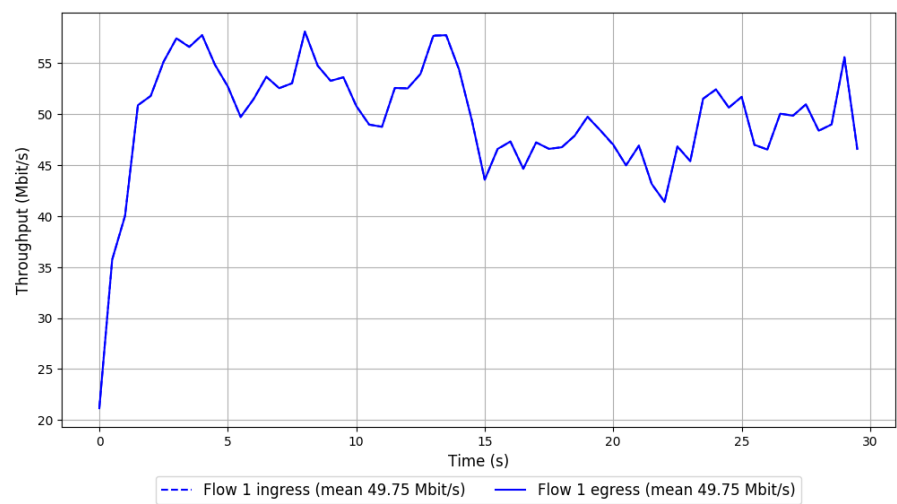
Run 5: Report of PCC-Allegro — Data Link

```
Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 06:13:43
End at: 2018-04-17 06:14:13
Local clock offset: -5.214 ms
Remote clock offset: -6.83 ms


# Below is generated by plot.py at 2018-04-17 08:18:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.87 Mbit/s
95th percentile per-packet one-way delay: 1.984 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 76.87 Mbit/s
95th percentile per-packet one-way delay: 1.984 ms
Loss rate: 0.01%
```
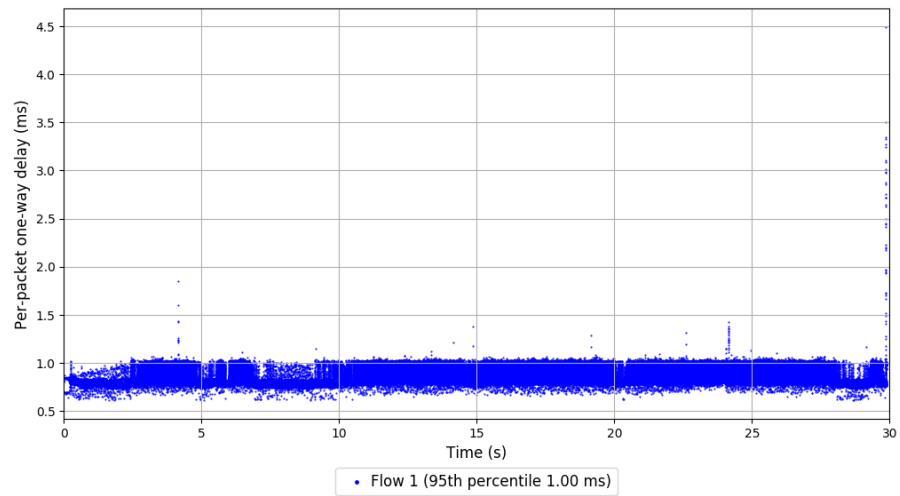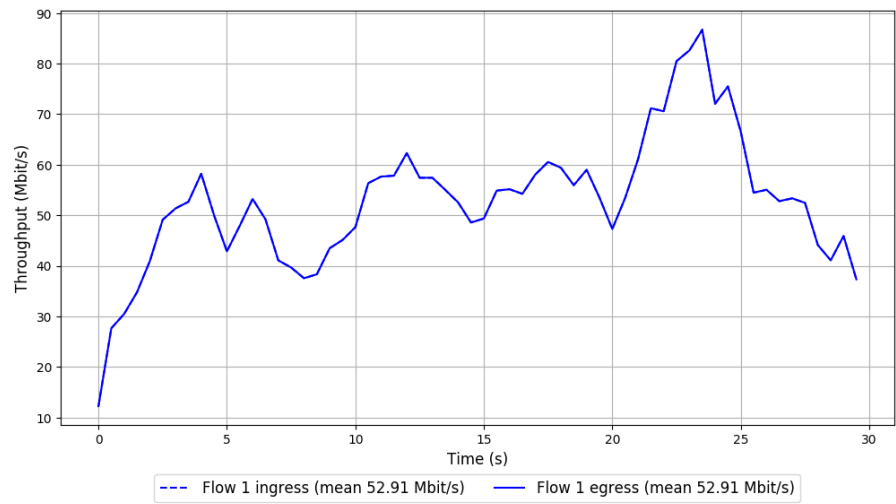
Run 6: Report of PCC-Allegro — Data Link

```
Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 06:32:45
End at: 2018-04-17 06:33:15
Local clock offset: -6.689 ms
Remote clock offset: -7.117 ms


# Below is generated by plot.py at 2018-04-17 08:18:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 1.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 1.737 ms
Loss rate: 0.00%
```
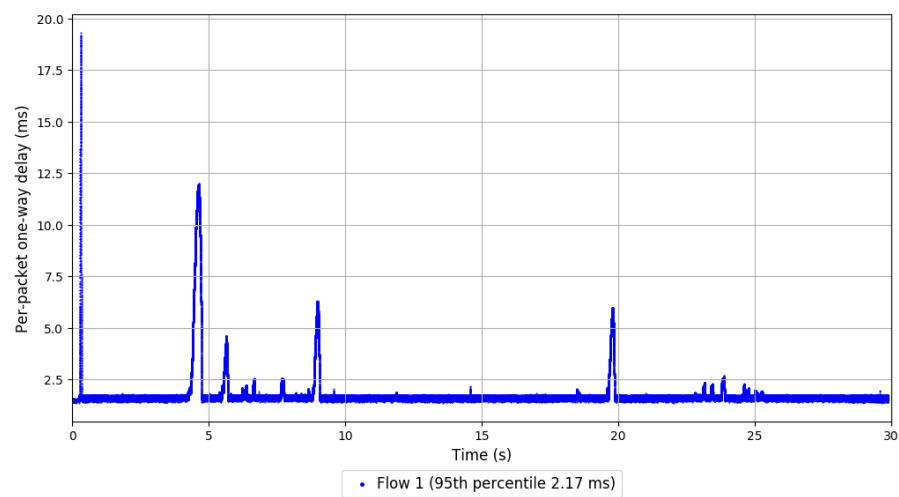
Run 7: Report of PCC-Allegro — Data Link

```
Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 06:51:47
End at: 2018-04-17 06:52:17
Local clock offset: -5.934 ms
Remote clock offset: -7.028 ms


# Below is generated by plot.py at 2018-04-17 08:18:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 0.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.75 Mbit/s
95th percentile per-packet one-way delay: 0.951 ms
Loss rate: 0.00%
```
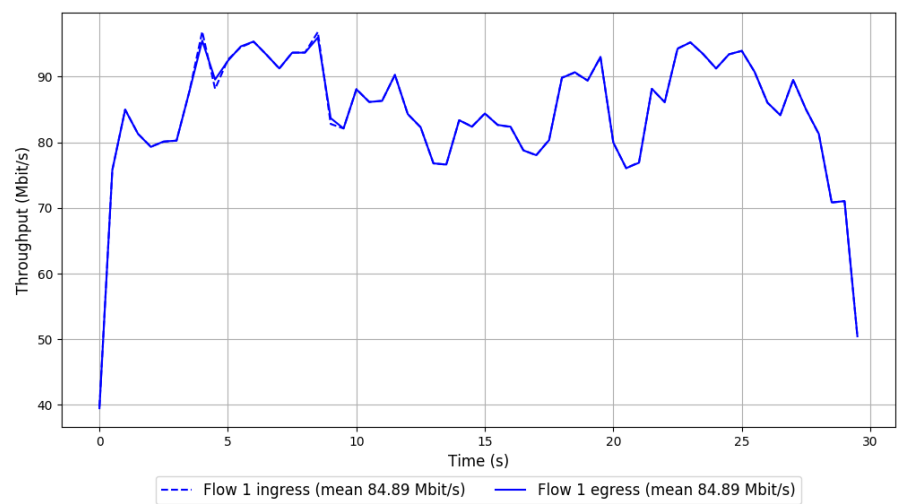
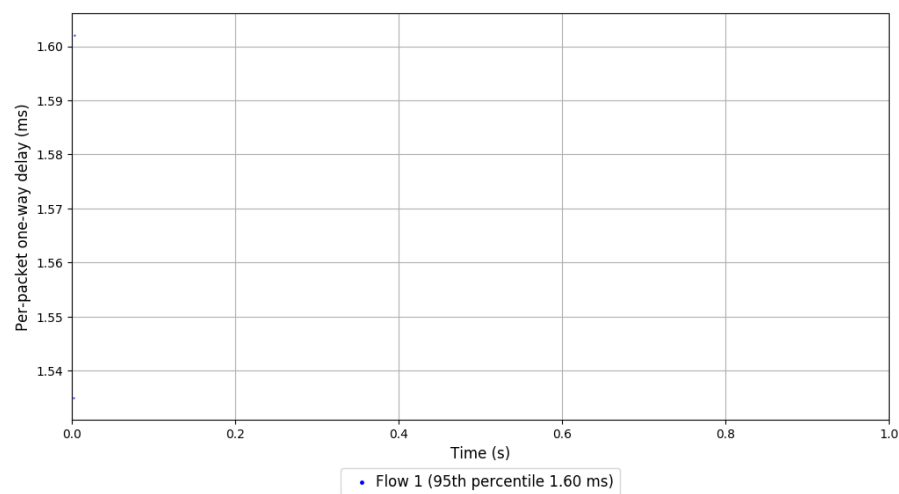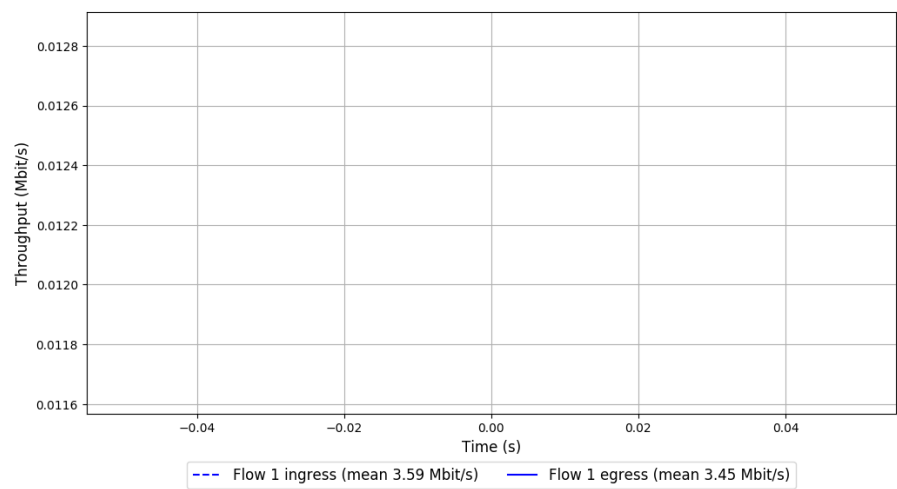Run 8: Report of PCC-Allegro — Data Link

```
Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 07:10:51
End at: 2018-04-17 07:11:21
Local clock offset: -5.946 ms
Remote clock offset: -6.597 ms


# Below is generated by plot.py at 2018-04-17 08:18:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.91 Mbit/s
95th percentile per-packet one-way delay: 1.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.91 Mbit/s
95th percentile per-packet one-way delay: 1.000 ms
Loss rate: 0.00%
```
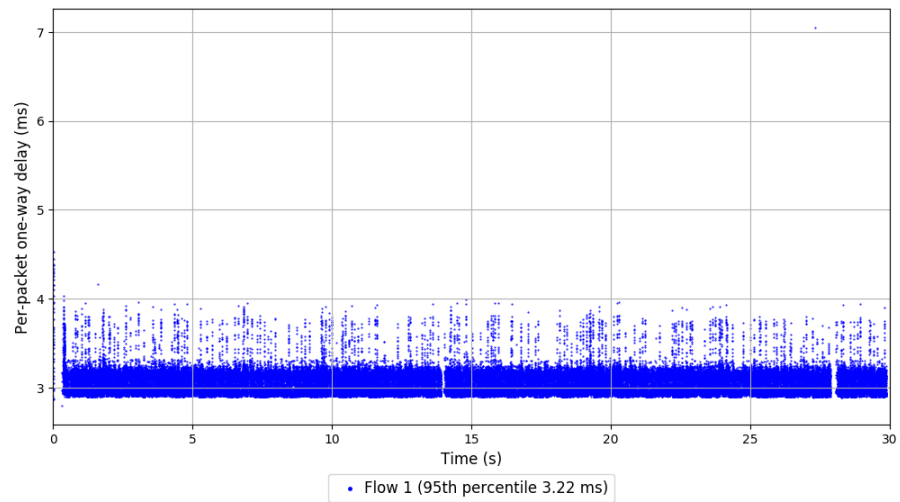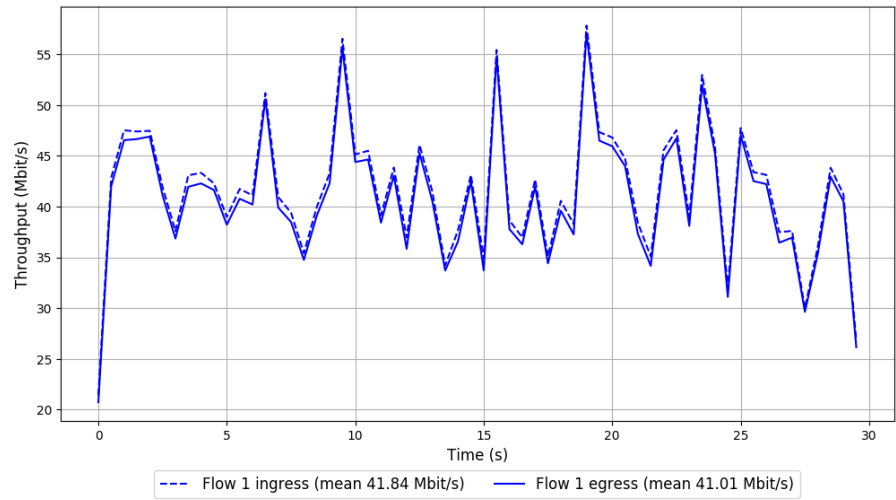
Run 9: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 52.91 Mbit/s)   Flow 1 egress (mean 52.91 Mbit/s)

Flow 1 (95th percentile 1.00 ms)

```
Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 07:29:52
End at: 2018-04-17 07:30:22
Local clock offset: -5.12 ms
Remote clock offset: -6.578 ms


# Below is generated by plot.py at 2018-04-17 08:18:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 2.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.89 Mbit/s
95th percentile per-packet one-way delay: 2.168 ms
Loss rate: 0.00%
```

Run 10: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 84.89 Mbit/s)   Flow 1 egress (mean 84.89 Mbit/s)
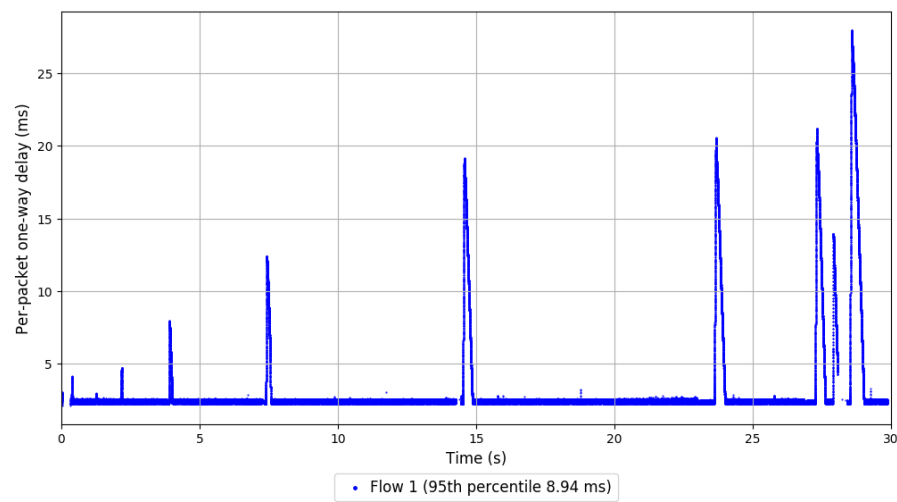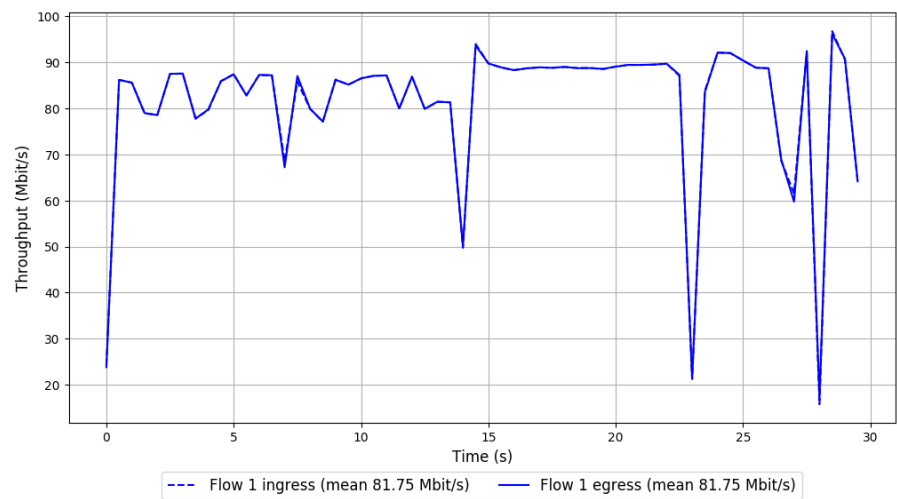

Flow 1 (95th percentile 2.17 ms)

Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 04:37:28
End at: 2018-04-17 04:37:58
Local clock offset: -6.666 ms
Remote clock offset: -6.907 ms

Run 1: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 3.59 Mbit/s)   Flow 1 egress (mean 3.45 Mbit/s)

Flow 1 (95th percentile 1.60 ms)

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 04:56:28
End at: 2018-04-17 04:56:58
Local clock offset: -6.692 ms
Remote clock offset: -6.944 ms


# Below is generated by plot.py at 2018-04-17 08:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 3.217 ms
Loss rate: 1.99%
-- Flow 1:
Average throughput: 41.01 Mbit/s
95th percentile per-packet one-way delay: 3.217 ms
Loss rate: 1.99%
```
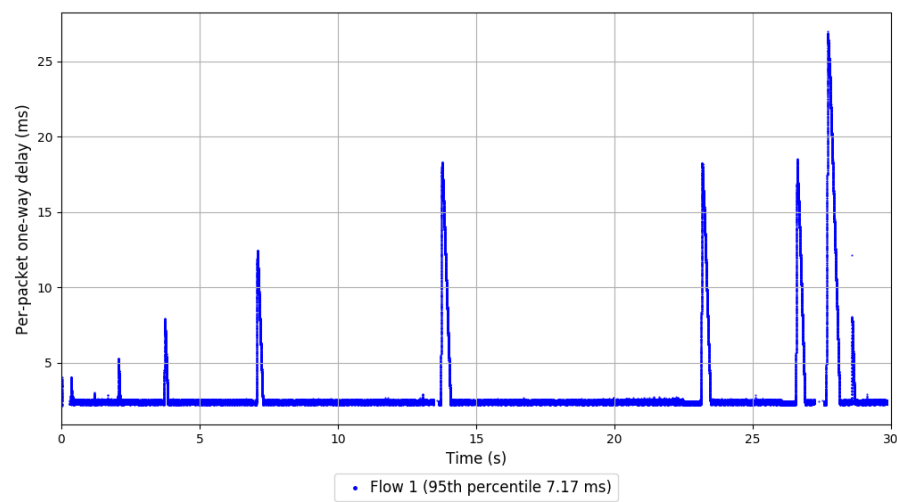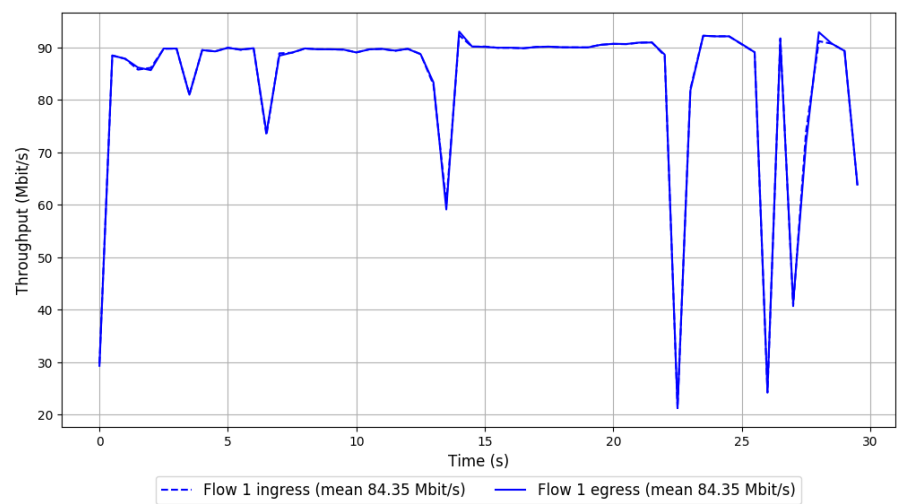
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 05:15:29
End at: 2018-04-17 05:15:59
Local clock offset: -6.109 ms
Remote clock offset: -6.638 ms


# Below is generated by plot.py at 2018-04-17 08:19:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.75 Mbit/s
95th percentile per-packet one-way delay: 8.944 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.75 Mbit/s
95th percentile per-packet one-way delay: 8.944 ms
Loss rate: 0.01%
```
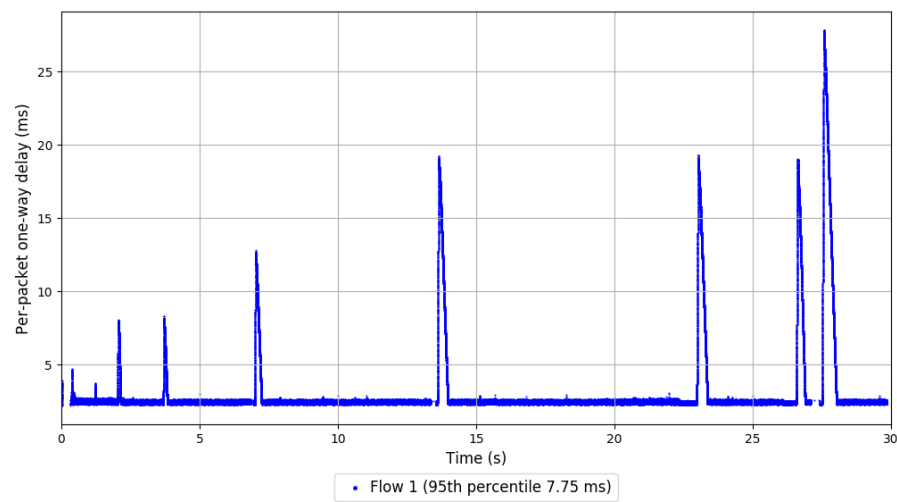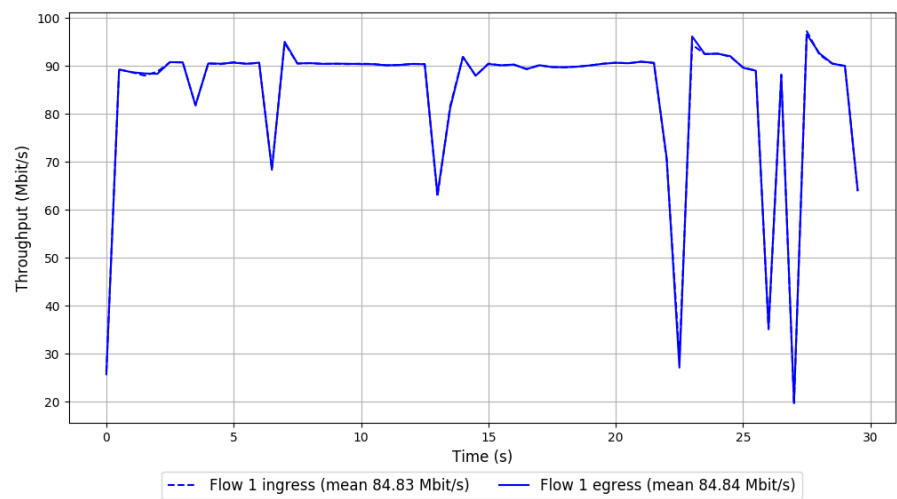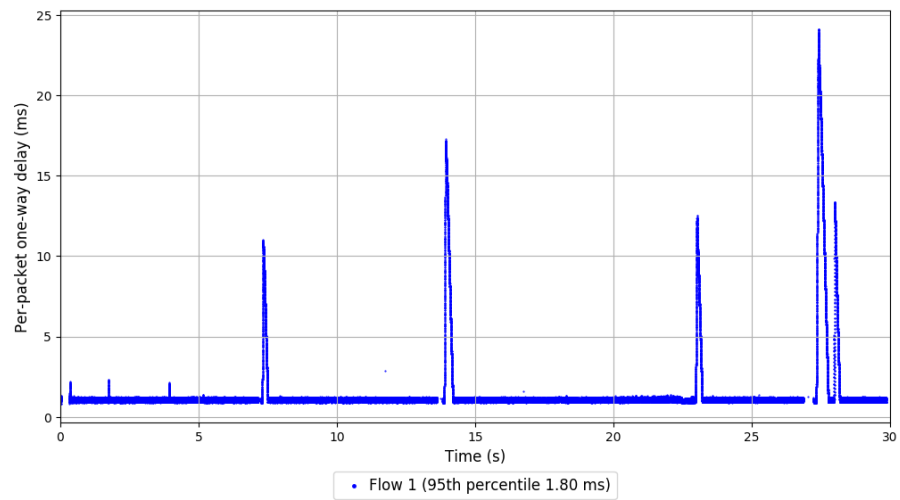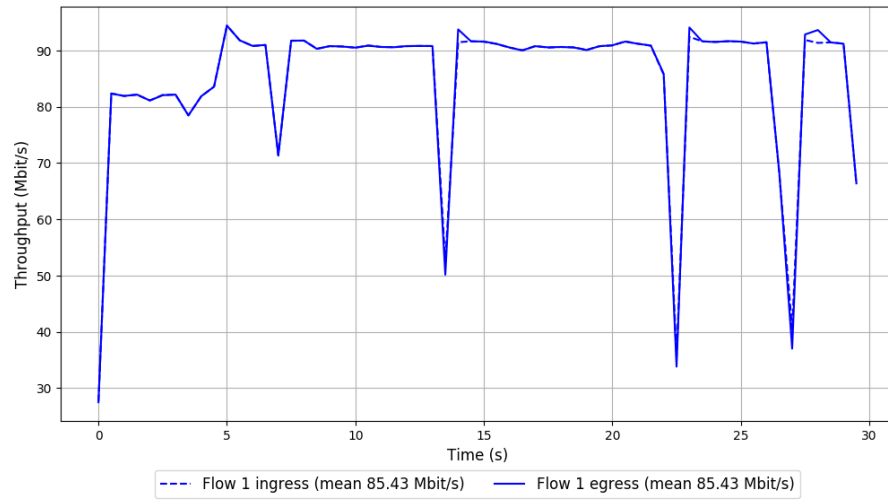
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 05:34:33
End at: 2018-04-17 05:35:03
Local clock offset: -6.05 ms
Remote clock offset: -6.507 ms


# Below is generated by plot.py at 2018-04-17 08:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 7.168 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.35 Mbit/s
95th percentile per-packet one-way delay: 7.168 ms
Loss rate: 0.00%
```
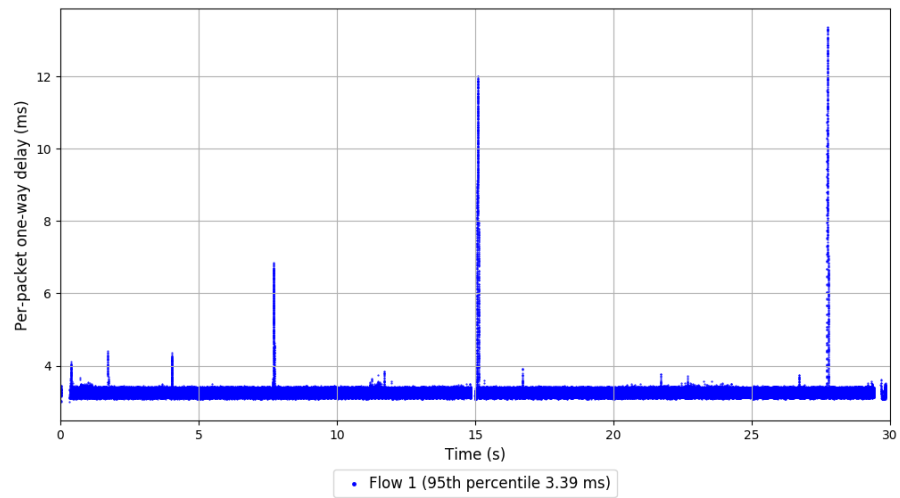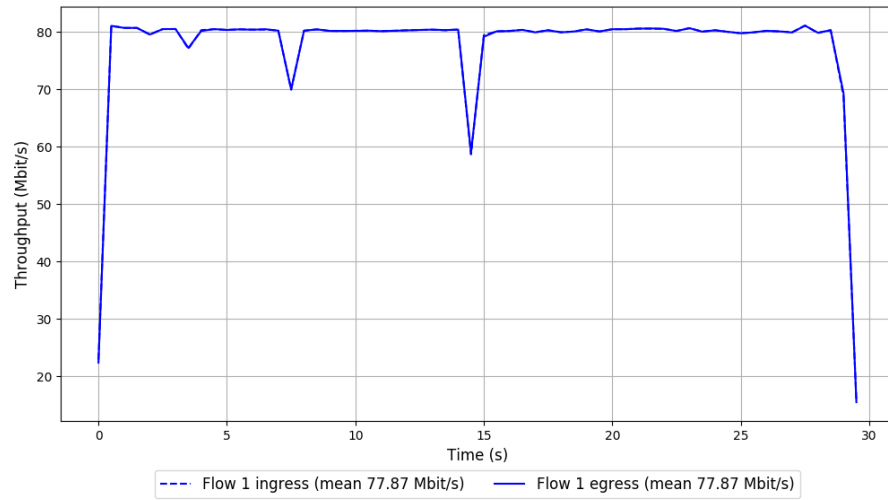
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 84.35 Mbit/s) ---- Flow 1 egress (mean 84.35 Mbit/s) ——

Flow 1 (95th percentile 7.17 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 05:53:35
End at: 2018-04-17 05:54:05
Local clock offset: -6.051 ms
Remote clock offset: -6.662 ms


# Below is generated by plot.py at 2018-04-17 08:19:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.84 Mbit/s
95th percentile per-packet one-way delay: 7.753 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 84.84 Mbit/s
95th percentile per-packet one-way delay: 7.753 ms
Loss rate: 0.01%
```

Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 84.83 Mbit/s)   Flow 1 egress (mean 84.84 Mbit/s)

Flow 1 (95th percentile 7.75 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 06:12:35
End at: 2018-04-17 06:13:05
Local clock offset: -6.054 ms
Remote clock offset: -6.801 ms

# Below is generated by plot.py at 2018-04-17 08:19:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 1.803 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 1.803 ms
Loss rate: 0.00%
```
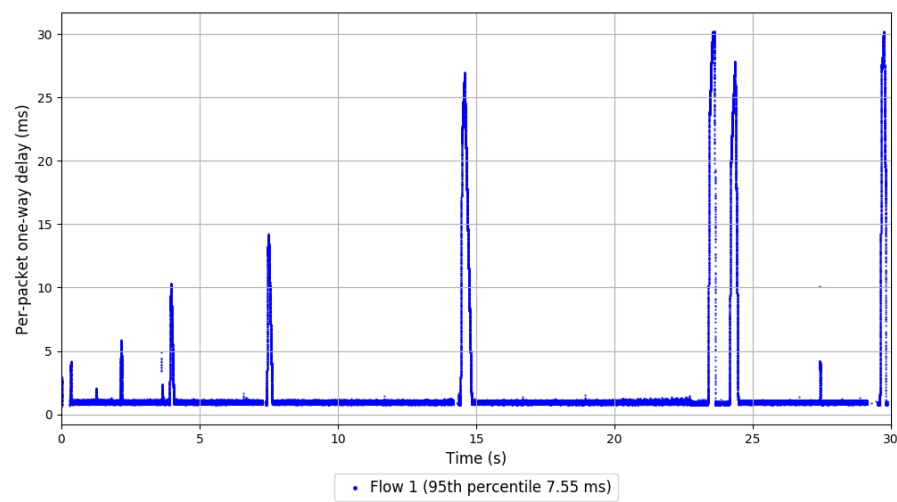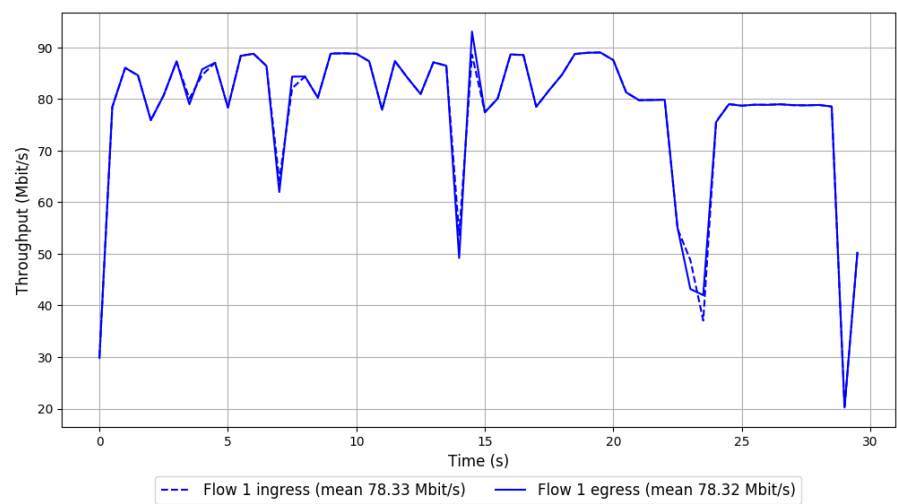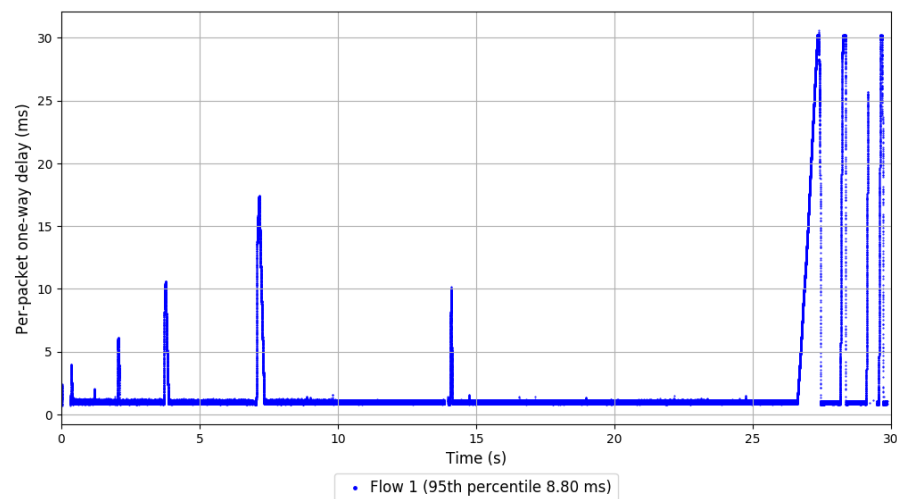
Run 6: Report of QUIC Cubic — Data Link

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

Flow 1 (95th percentile 1.80 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 06:31:37
End at: 2018-04-17 06:32:07
Local clock offset: -6.781 ms
Remote clock offset: -7.106 ms


# Below is generated by plot.py at 2018-04-17 08:19:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 3.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.87 Mbit/s
95th percentile per-packet one-way delay: 3.387 ms
Loss rate: 0.00%
```
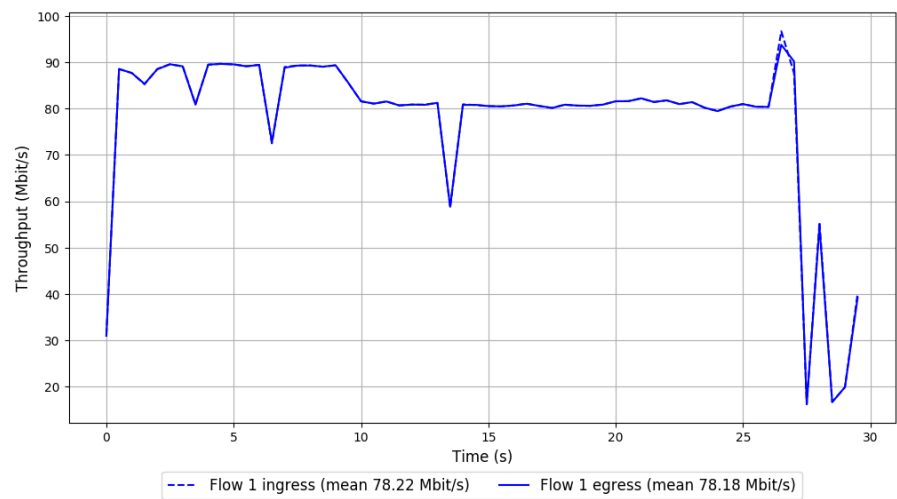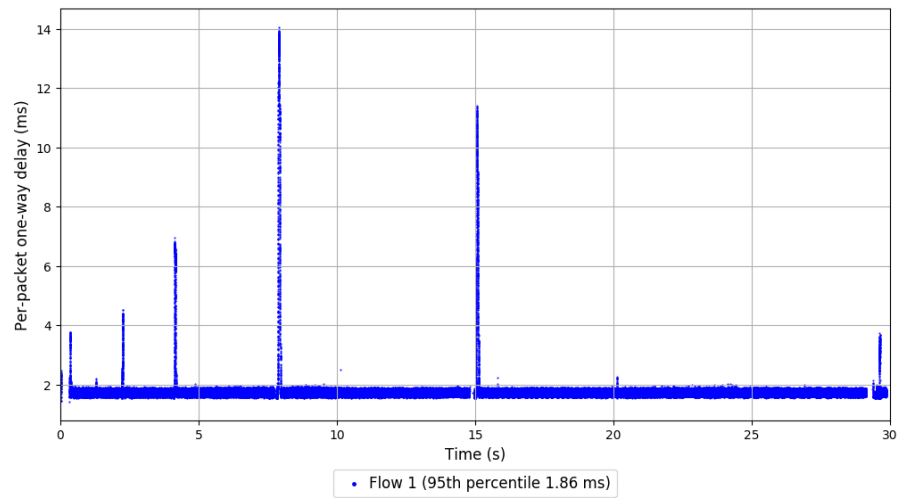
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 77.87 Mbit/s) Flow 1 egress (mean 77.87 Mbit/s)

Flow 1 (95th percentile 3.39 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 06:50:40
End at: 2018-04-17 06:51:10
Local clock offset: -5.946 ms
Remote clock offset: -7.01 ms


# Below is generated by plot.py at 2018-04-17 08:19:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.32 Mbit/s
95th percentile per-packet one-way delay: 7.546 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 78.32 Mbit/s
95th percentile per-packet one-way delay: 7.546 ms
Loss rate: 0.02%
```
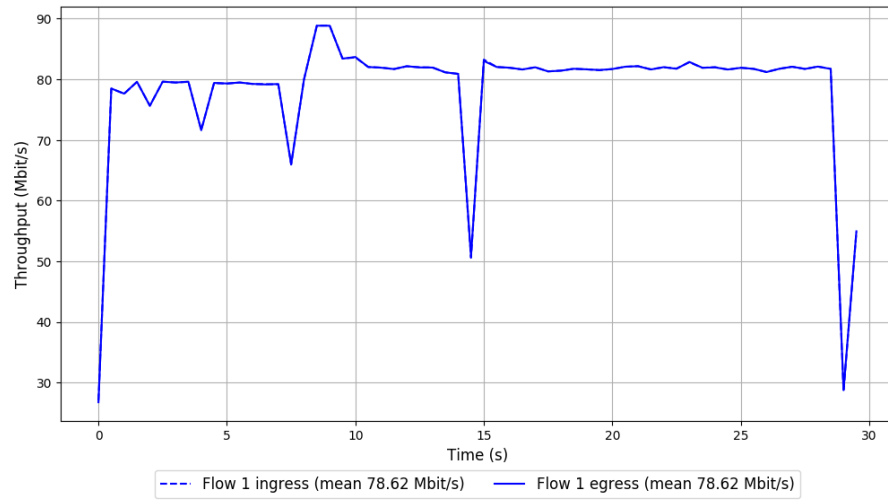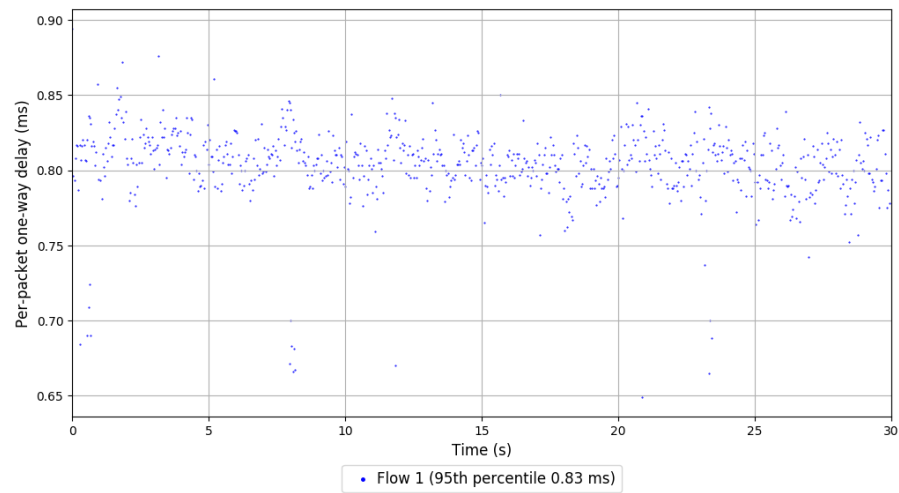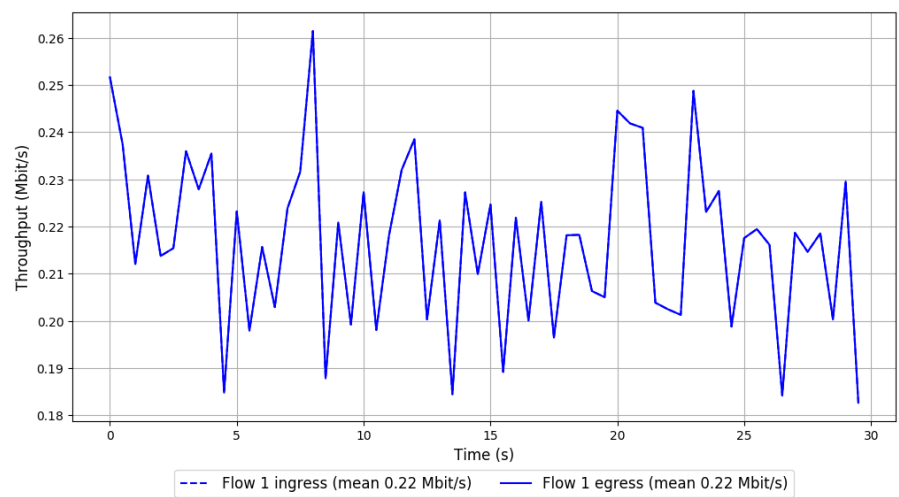
Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 78.33 Mbit/s)   Flow 1 egress (mean 78.32 Mbit/s)

Flow 1 (95th percentile 7.55 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 07:09:44
End at: 2018-04-17 07:10:14
Local clock offset: -6.006 ms
Remote clock offset: -6.601 ms


# Below is generated by plot.py at 2018-04-17 08:20:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.18 Mbit/s
95th percentile per-packet one-way delay: 8.797 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 78.18 Mbit/s
95th percentile per-packet one-way delay: 8.797 ms
Loss rate: 0.05%
```

Run 9: Report of QUIC Cubic — Data Link
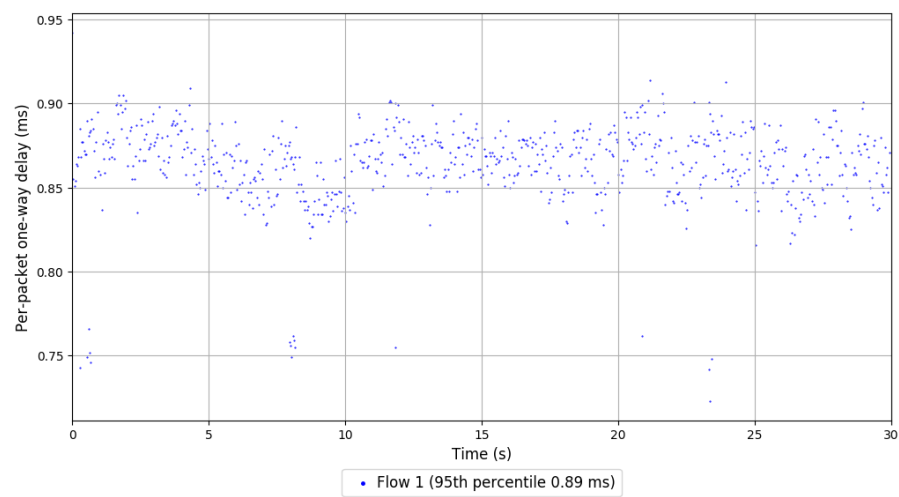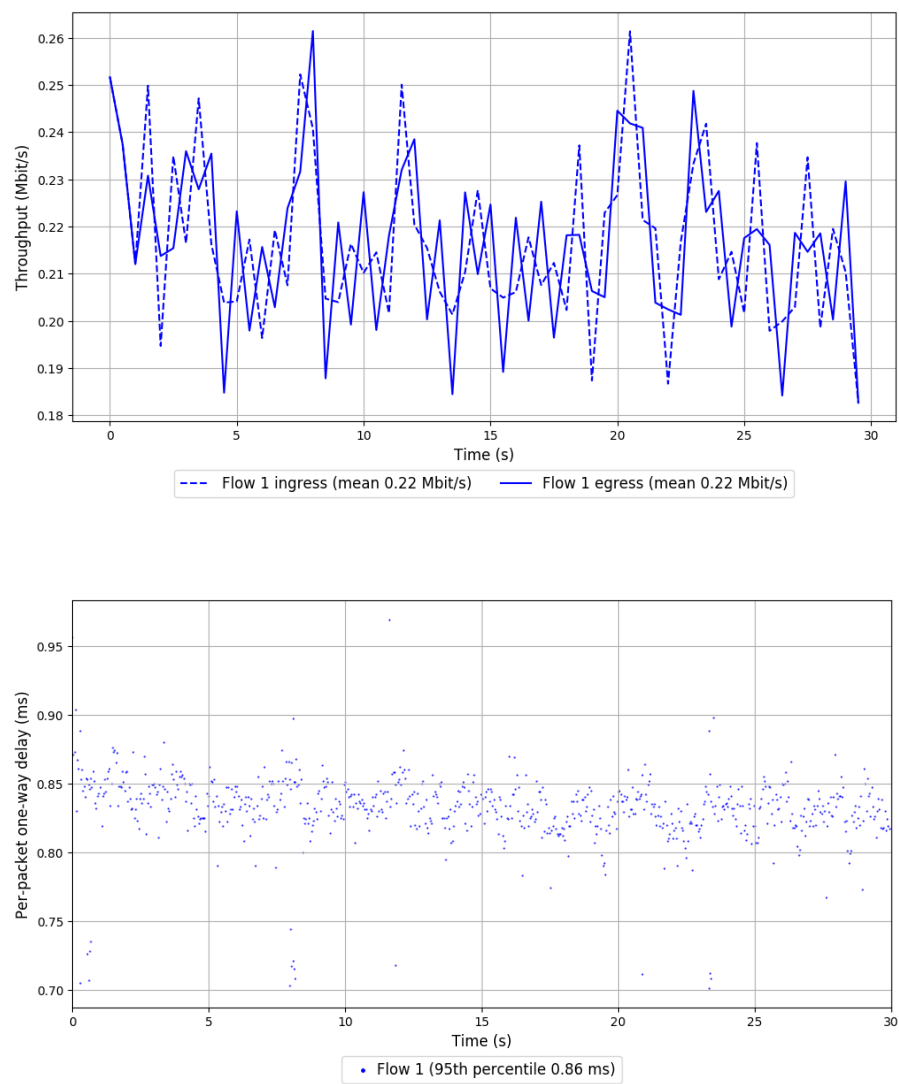

Flow 1 ingress (mean 78.22 Mbit/s)   Flow 1 egress (mean 78.18 Mbit/s)

Flow 1 (95th percentile 8.80 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 07:28:45
End at: 2018-04-17 07:29:15
Local clock offset: -6.647 ms
Remote clock offset: -6.536 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 1.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.62 Mbit/s
95th percentile per-packet one-way delay: 1.864 ms
Loss rate: 0.00%
```
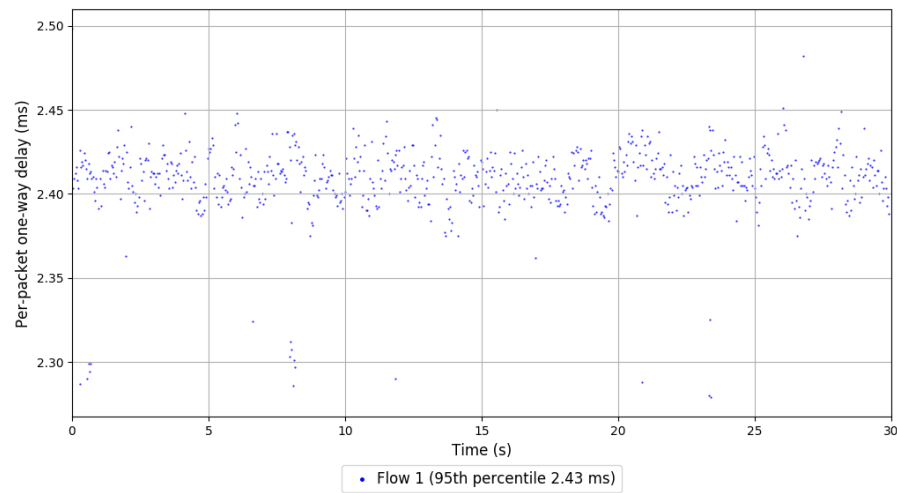
Run 10: Report of QUIC Cubic — Data Link

```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 04:36:24
End at: 2018-04-17 04:36:54
Local clock offset: -5.843 ms
Remote clock offset: -6.97 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.835 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.835 ms
Loss rate: 0.00%
```
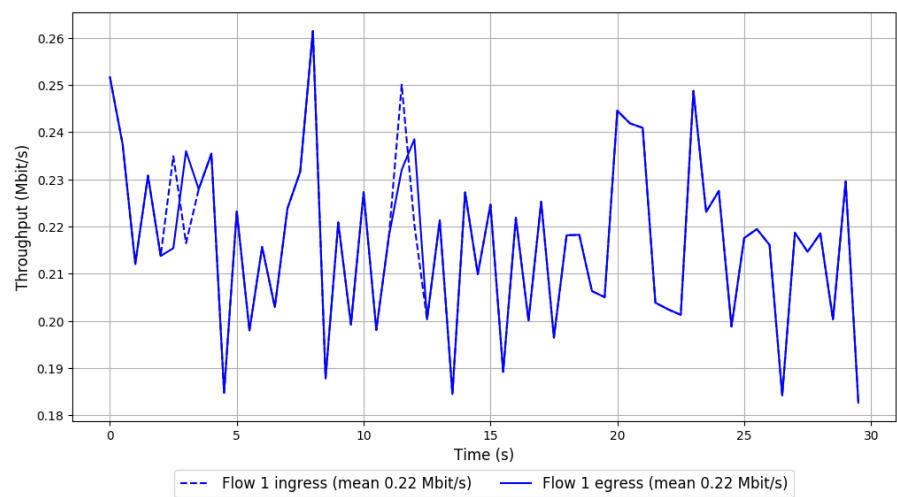
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2018-04-17 04:55:24
End at: 2018-04-17 04:55:54
Local clock offset: -5.927 ms
Remote clock offset: -6.842 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.894 ms
Loss rate: 0.00%
```
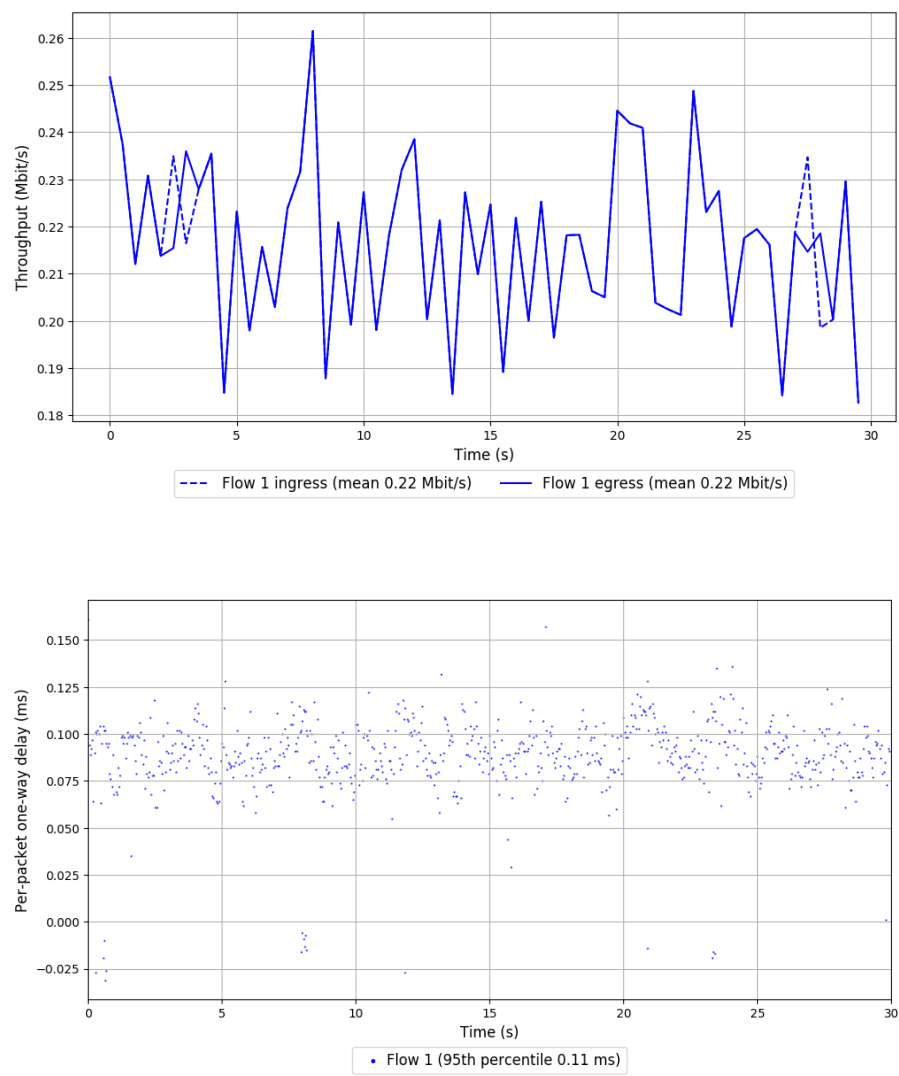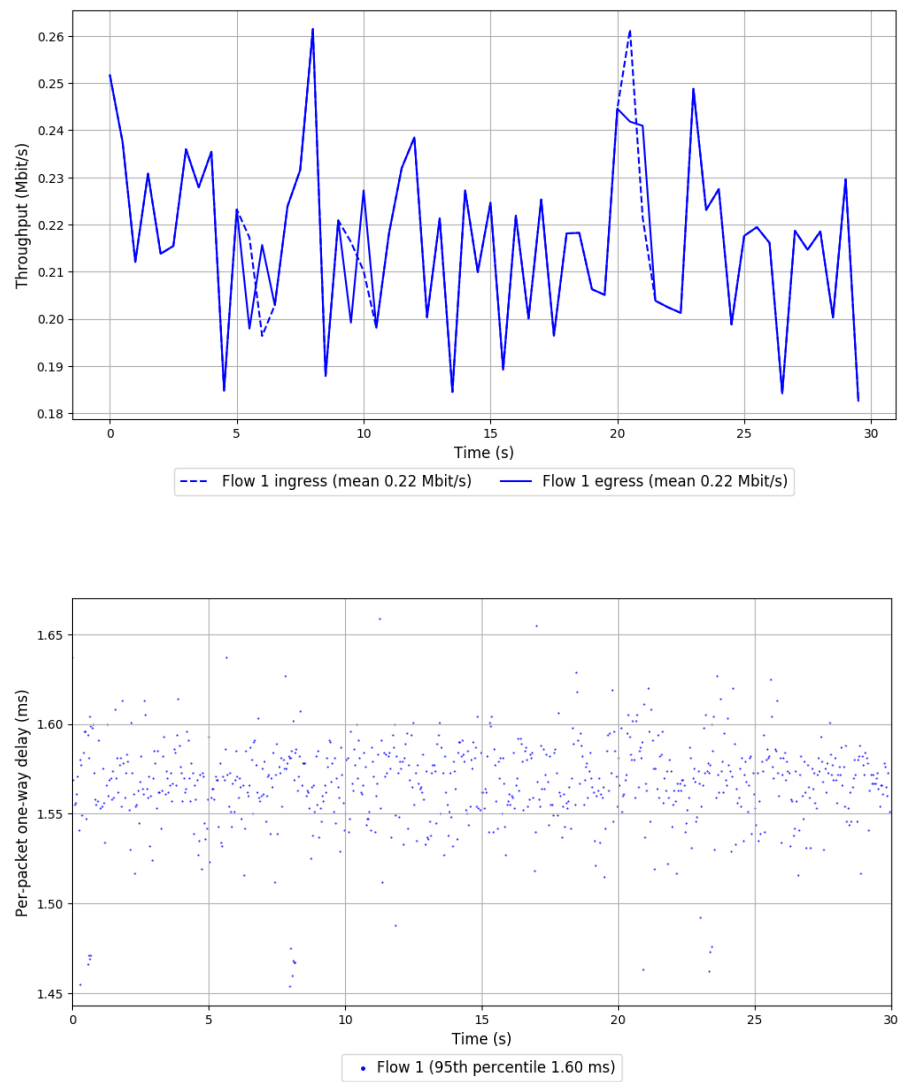
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2018-04-17 05:14:26
End at: 2018-04-17 05:14:56
Local clock offset: -6.198 ms
Remote clock offset: -6.698 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.860 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.860 ms
Loss rate: 0.00%
```
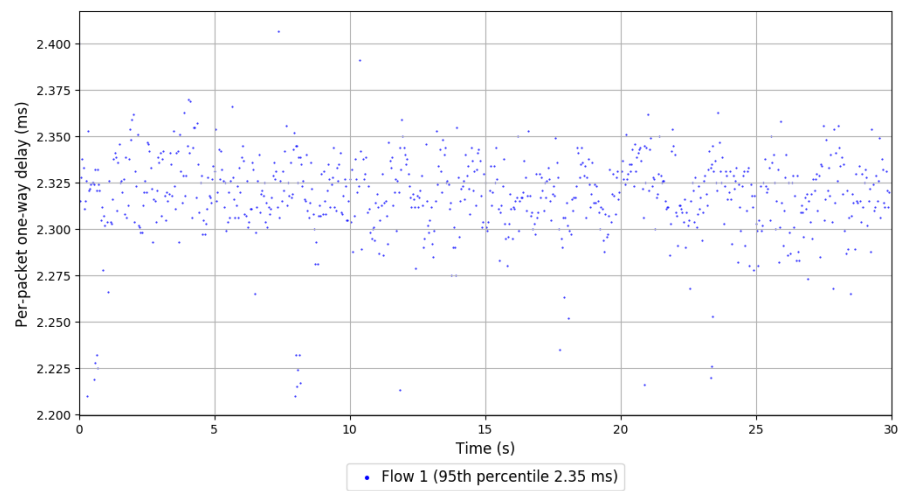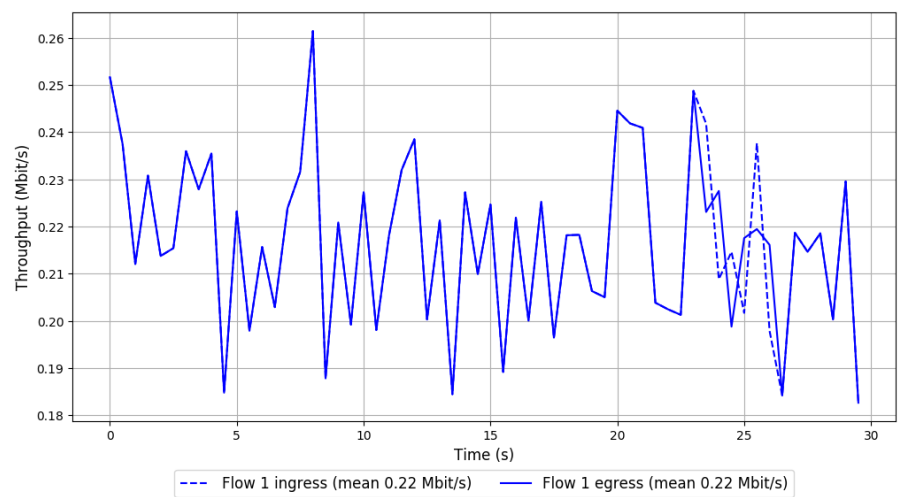
Run 3: Report of SCReAM — Data Link

```
Run 4: Statistics of SCReAM

Start at: 2018-04-17 05:33:30
End at: 2018-04-17 05:34:00
Local clock offset: -6.145 ms
Remote clock offset: -6.467 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.434 ms
Loss rate: 0.00%
```
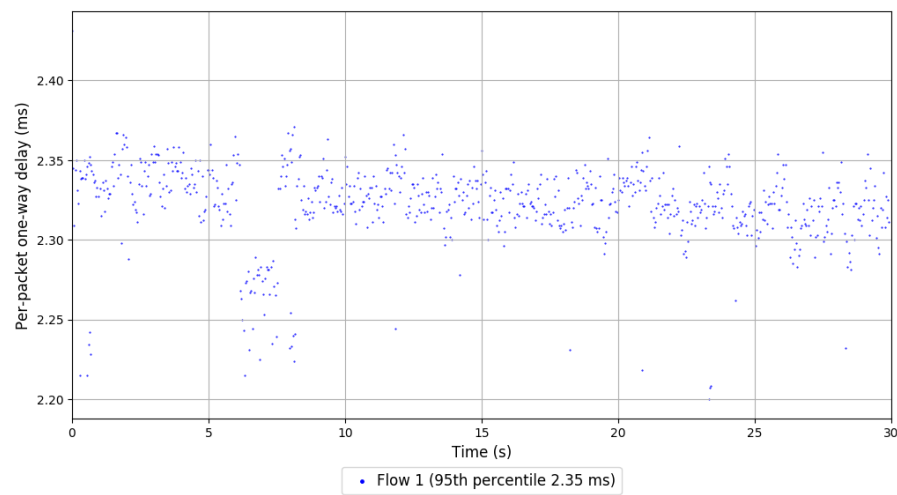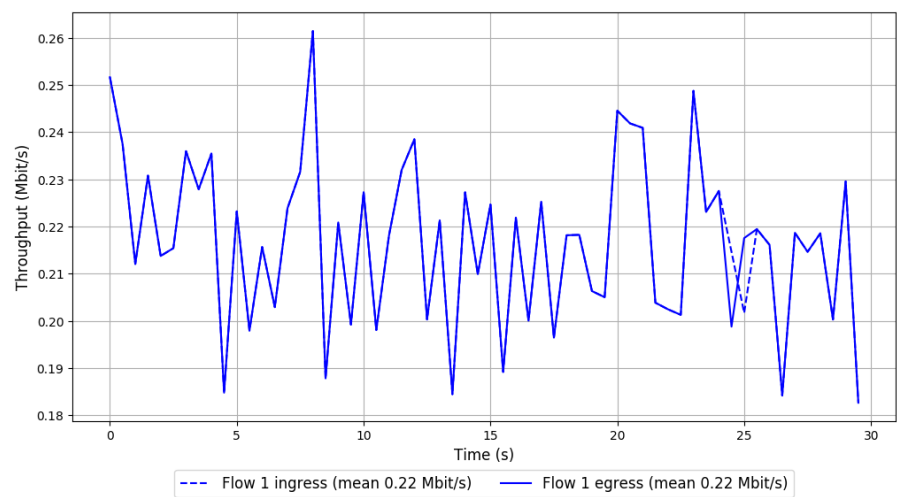
Run 4: Report of SCReAM — Data Link

```
Run 5: Statistics of SCReAM

Start at: 2018-04-17 05:52:32
End at: 2018-04-17 05:53:02
Local clock offset: -5.308 ms
Remote clock offset: -6.66 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.113 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.113 ms
Loss rate: 0.00%
```
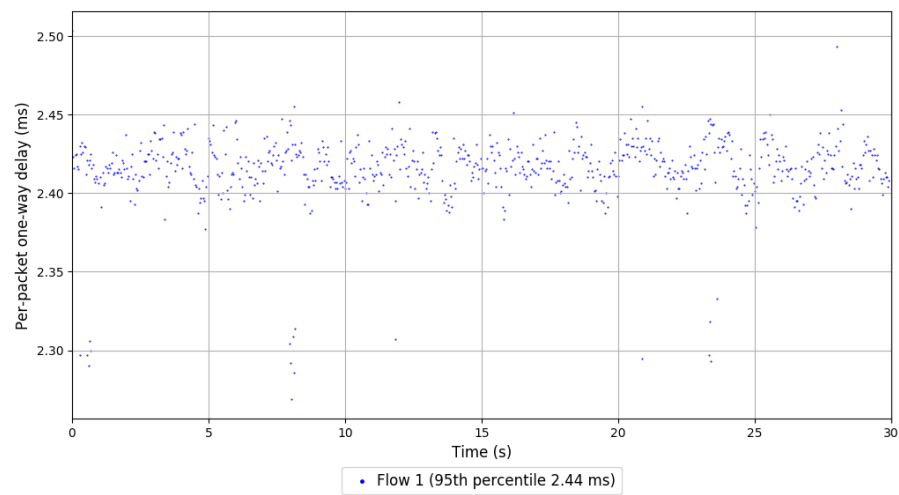
Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2018-04-17 06:11:31
End at: 2018-04-17 06:12:01
Local clock offset: -5.208 ms
Remote clock offset: -6.789 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.601 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.601 ms
Loss rate: 0.00%
```
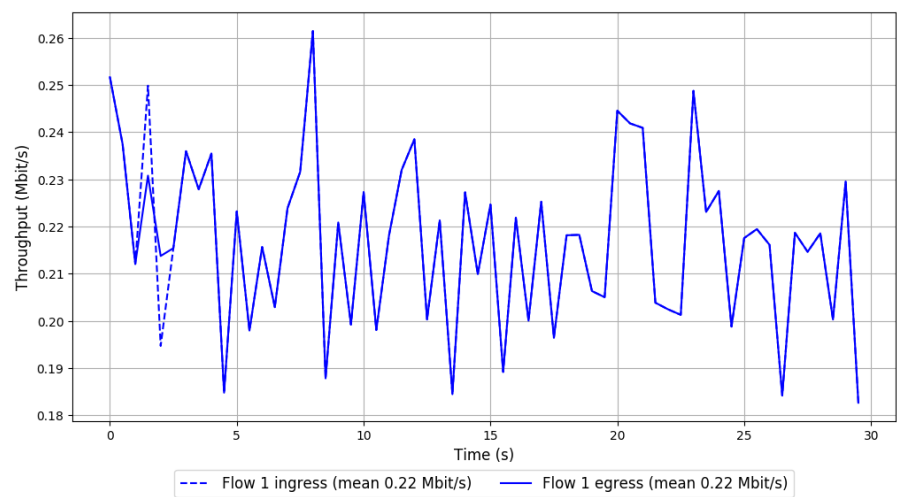
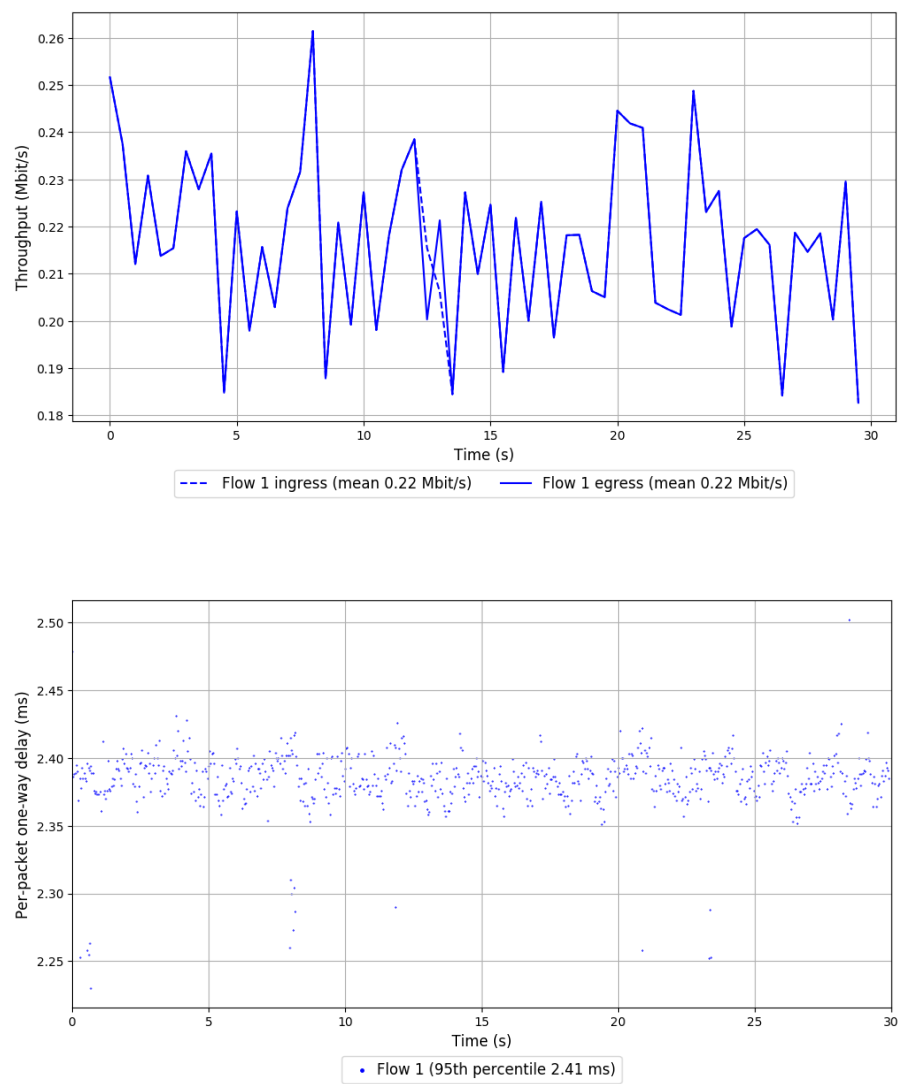# Run 6: Report of SCReAM — Data Link

```
Run 7: Statistics of SCReAM

Start at: 2018-04-17 06:30:34
End at: 2018-04-17 06:31:04
Local clock offset: -5.957 ms
Remote clock offset: -7.094 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.349 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.349 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

```
Run 8: Statistics of SCReAM

Start at: 2018-04-17 06:49:36
End at: 2018-04-17 06:50:06
Local clock offset: -5.989 ms
Remote clock offset: -7.078 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.354 ms
Loss rate: 0.00%
```
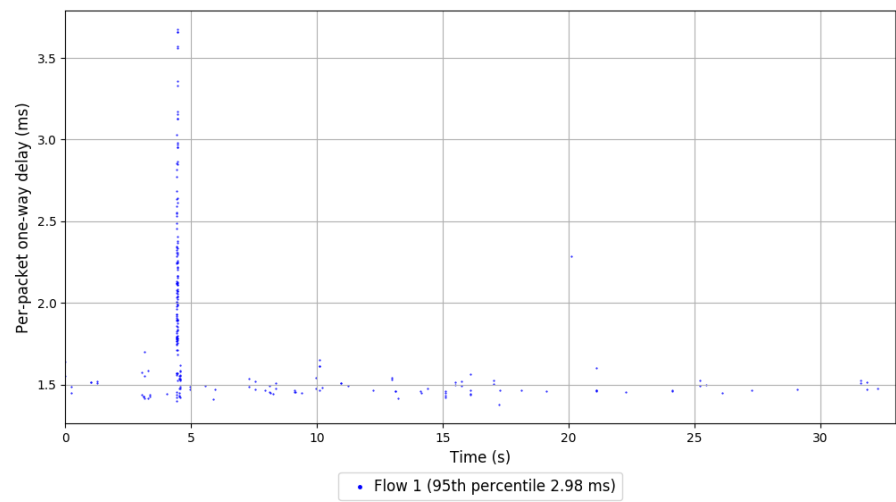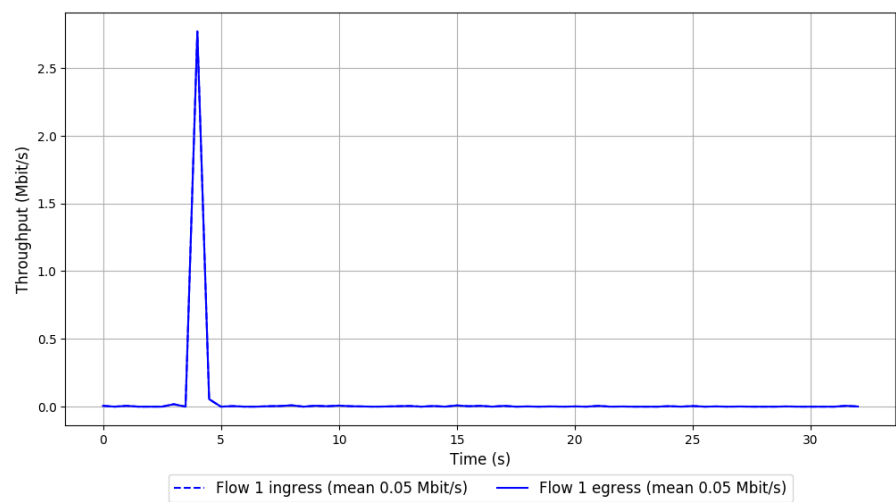
Run 8: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 2.35 ms)

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```
Run 9: Statistics of SCReAM

Start at: 2018-04-17 07:08:40
End at: 2018-04-17 07:09:10
Local clock offset: -6.032 ms
Remote clock offset: -6.604 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.439 ms
Loss rate: 0.00%
```
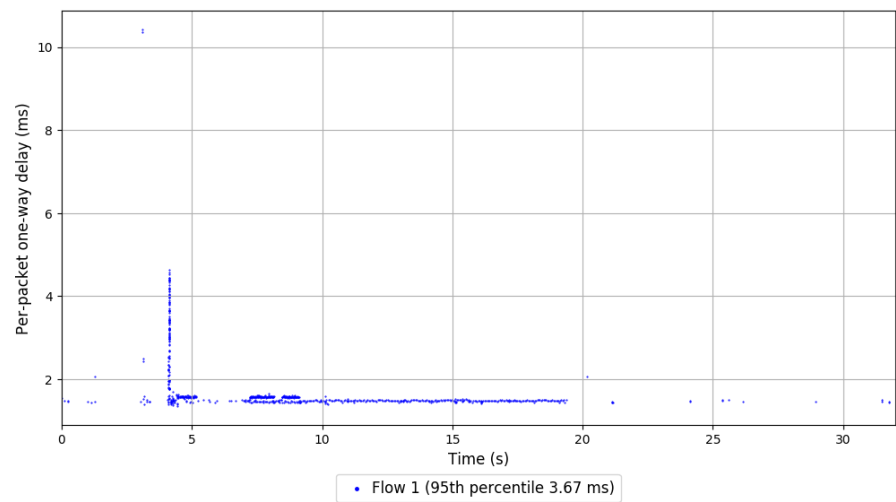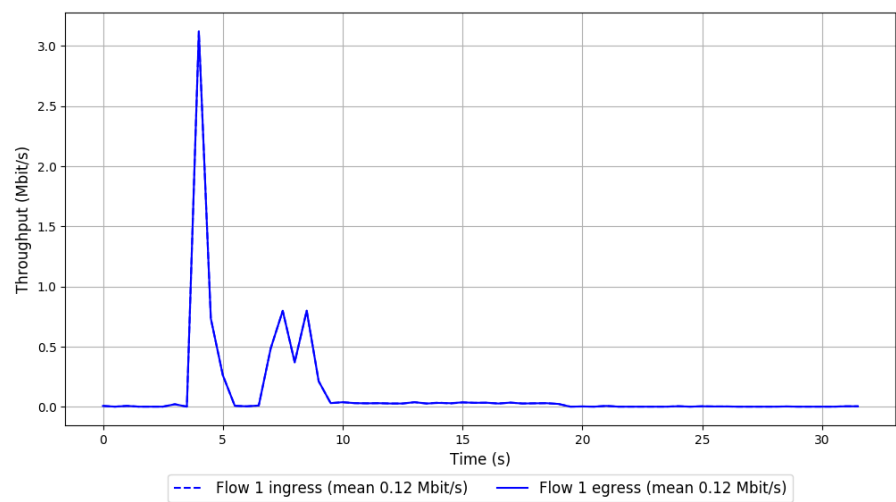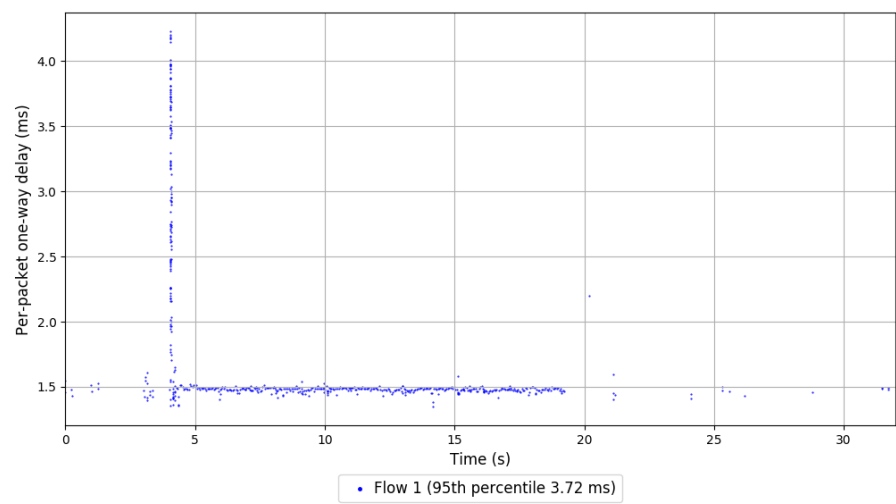
Run 9: Report of SCReAM — Data Link

```
Run 10: Statistics of SCReAM

Start at: 2018-04-17 07:27:41
End at: 2018-04-17 07:28:11
Local clock offset: -5.945 ms
Remote clock offset: -6.538 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.408 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.408 ms
Loss rate: 0.00%
```

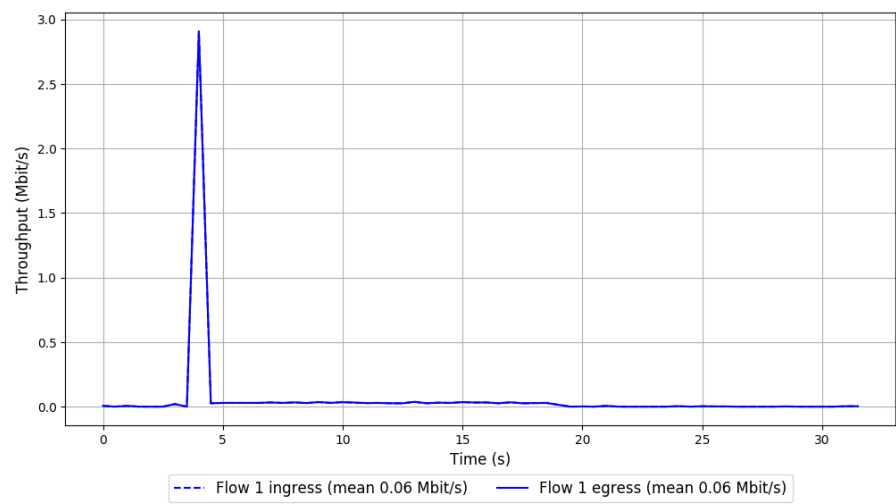Run 10: Report of SCReAM — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 04:41:52
End at: 2018-04-17 04:42:22
Local clock offset: -5.09 ms
Remote clock offset: -6.869 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 2.978 ms
Loss rate: 0.00%
```
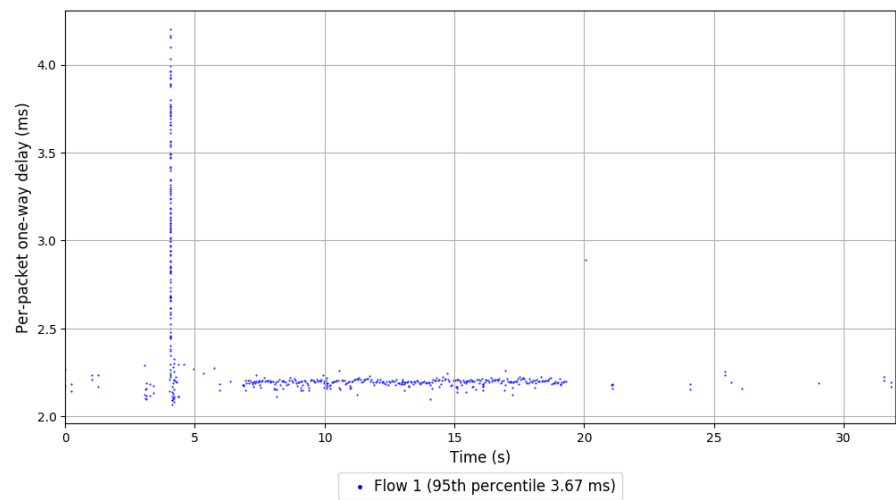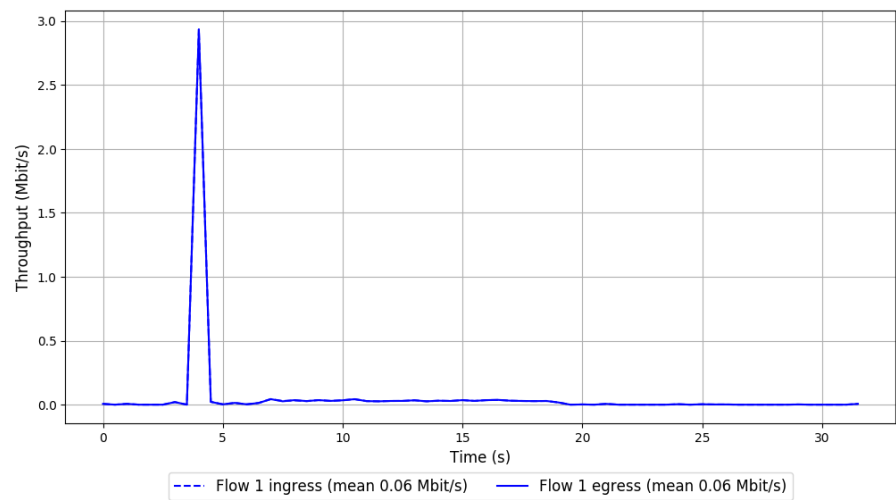
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-04-17 05:00:54
End at: 2018-04-17 05:01:24
Local clock offset: -5.267 ms
Remote clock offset: -6.91 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 3.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.12 Mbit/s
95th percentile per-packet one-way delay: 3.667 ms
Loss rate: 0.00%
```
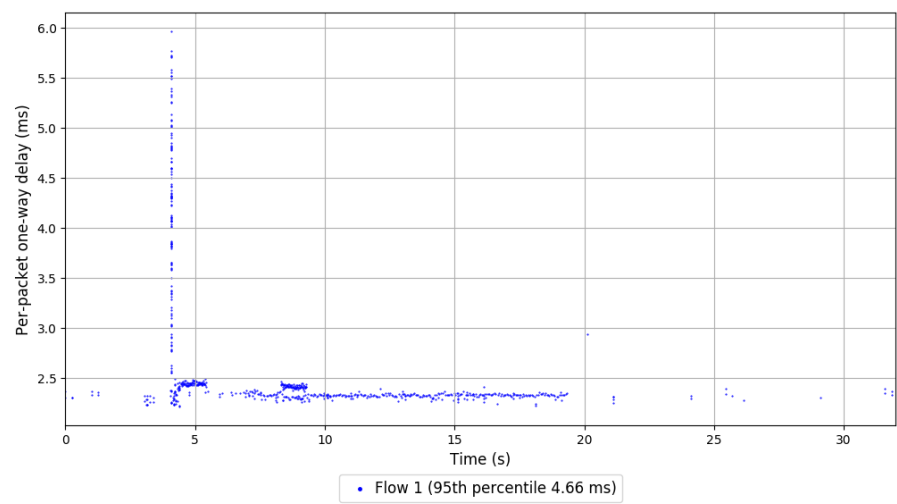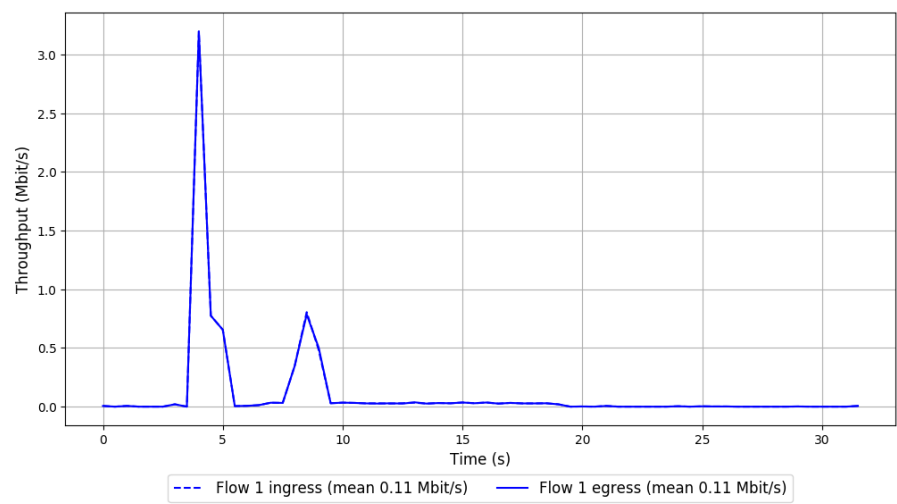
Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-04-17 05:19:57
End at: 2018-04-17 05:20:27
Local clock offset: -6.9 ms
Remote clock offset: -6.589 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.718 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.718 ms
Loss rate: 0.00%
```

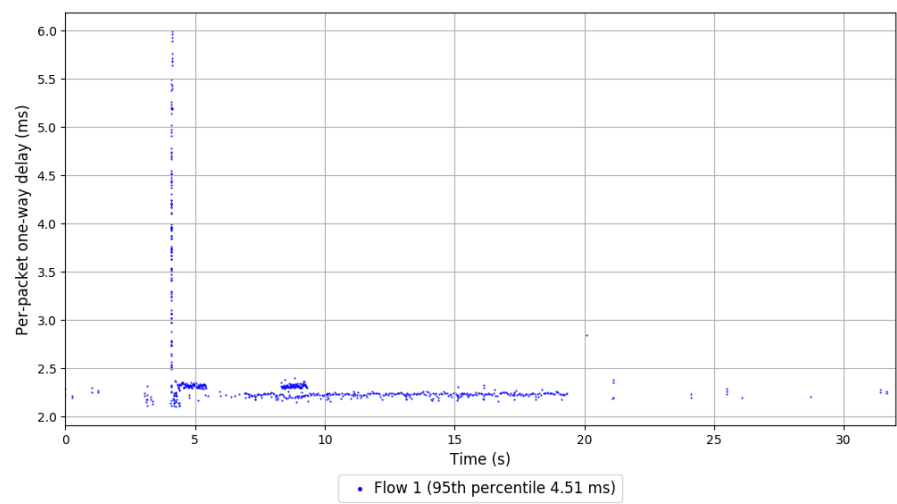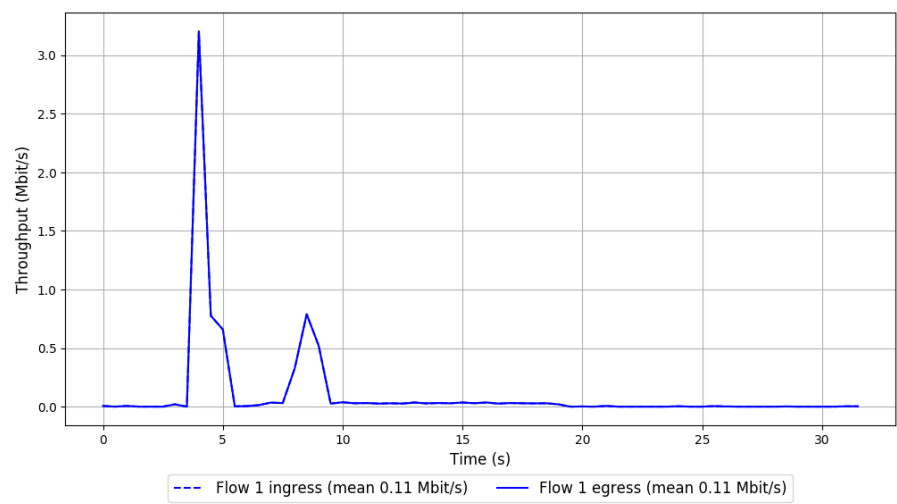Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-04-17 05:39:01
End at: 2018-04-17 05:39:31
Local clock offset: -6.045 ms
Remote clock offset: -6.529 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.672 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.672 ms
Loss rate: 0.00%
```
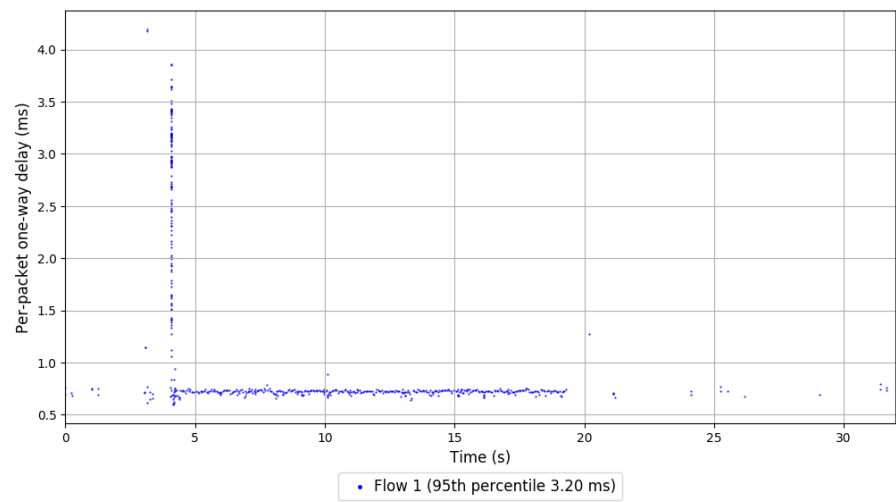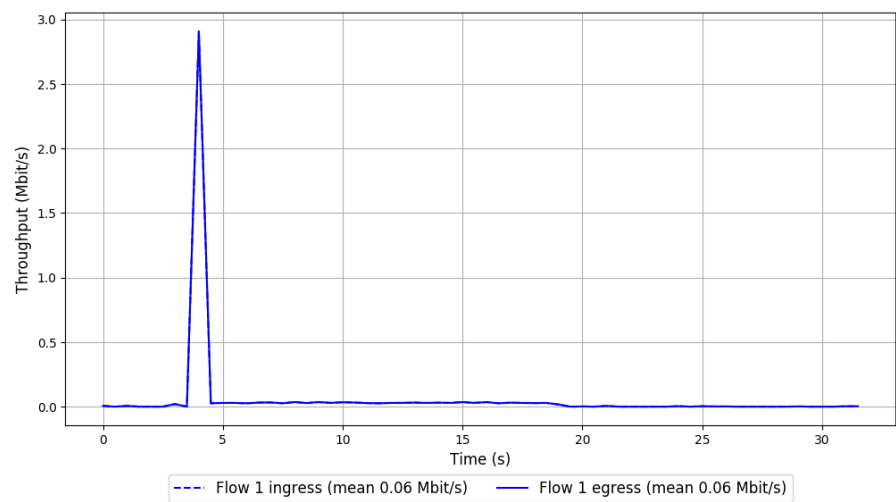
Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2018-04-17 05:58:02
End at: 2018-04-17 05:58:32
Local clock offset: -6.118 ms
Remote clock offset: -6.718 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.659 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.659 ms
Loss rate: 0.00%
```
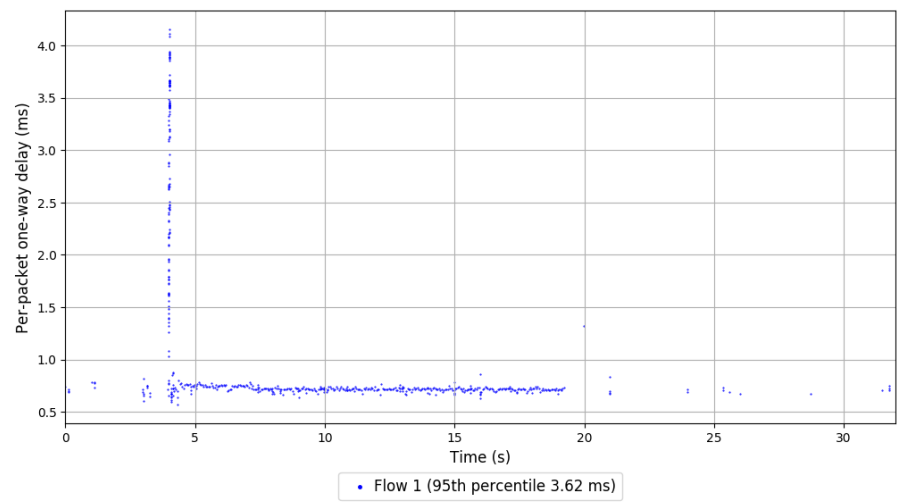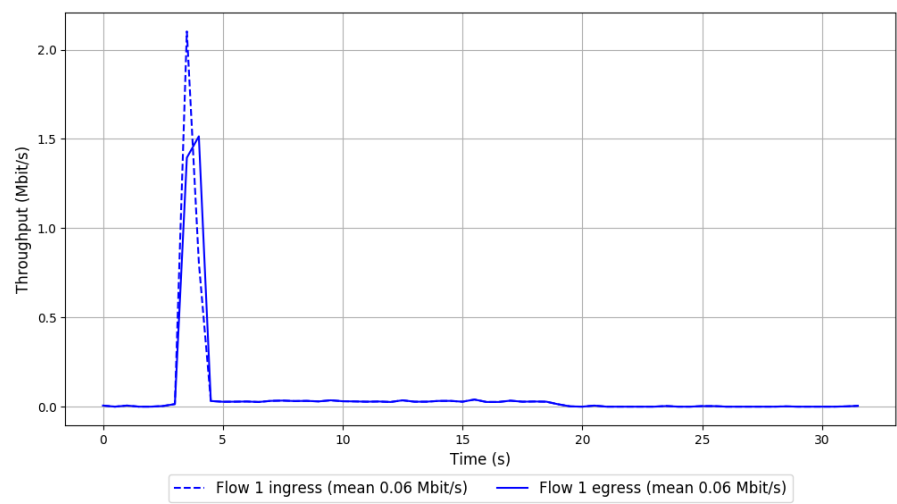
Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2018-04-17 06:17:03
End at: 2018-04-17 06:17:33
Local clock offset: -5.933 ms
Remote clock offset: -6.921 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.509 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 4.509 ms
Loss rate: 0.00%
```
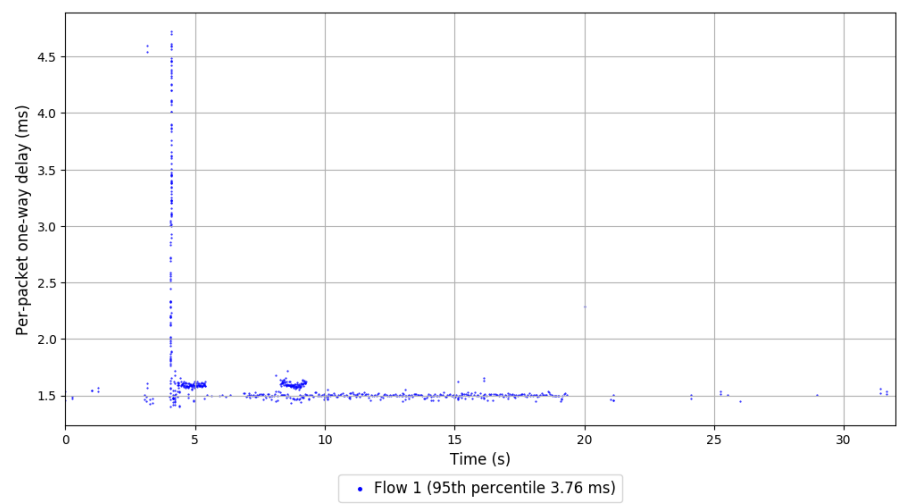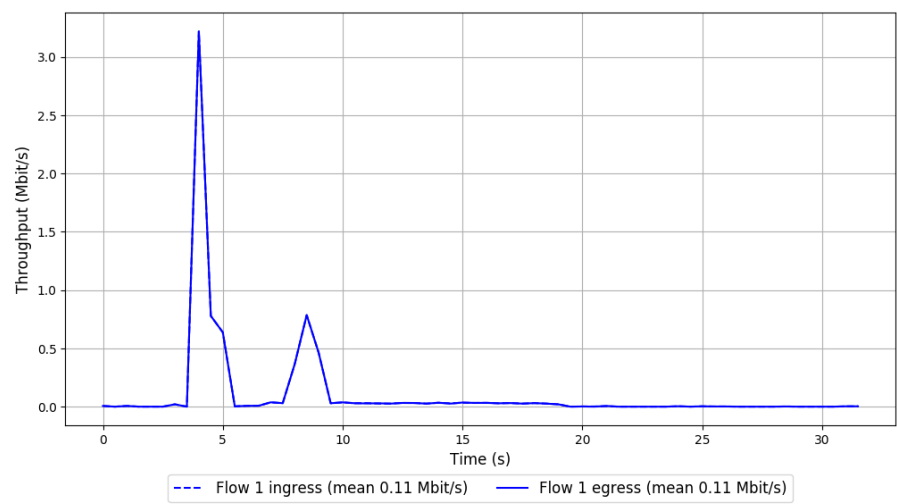
Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-04-17 06:36:04
End at: 2018-04-17 06:36:34
Local clock offset: -5.961 ms
Remote clock offset: -7.215 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.201 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.201 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-04-17 06:55:07
End at: 2018-04-17 06:55:37
Local clock offset: -5.983 ms
Remote clock offset: -6.923 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.616 ms
Loss rate: 0.00%
```
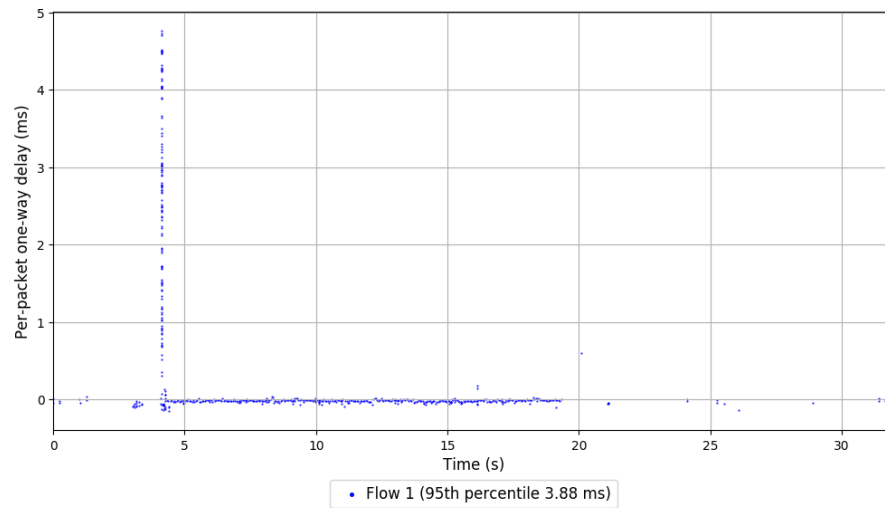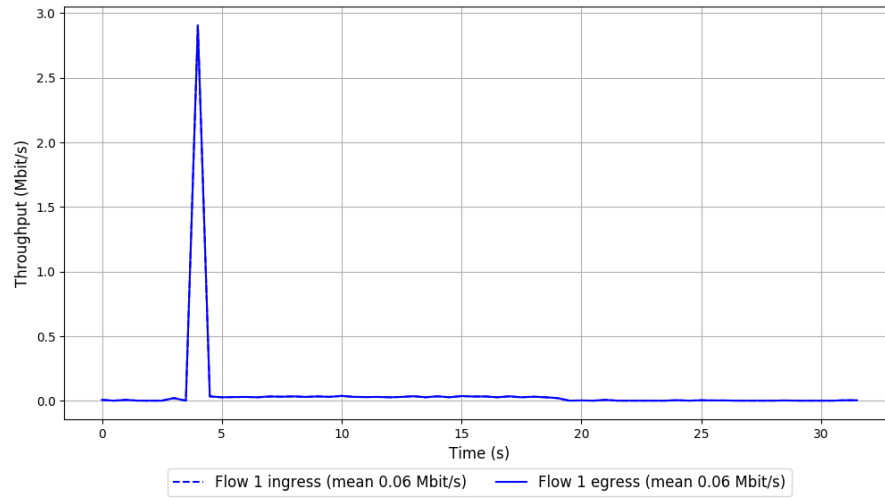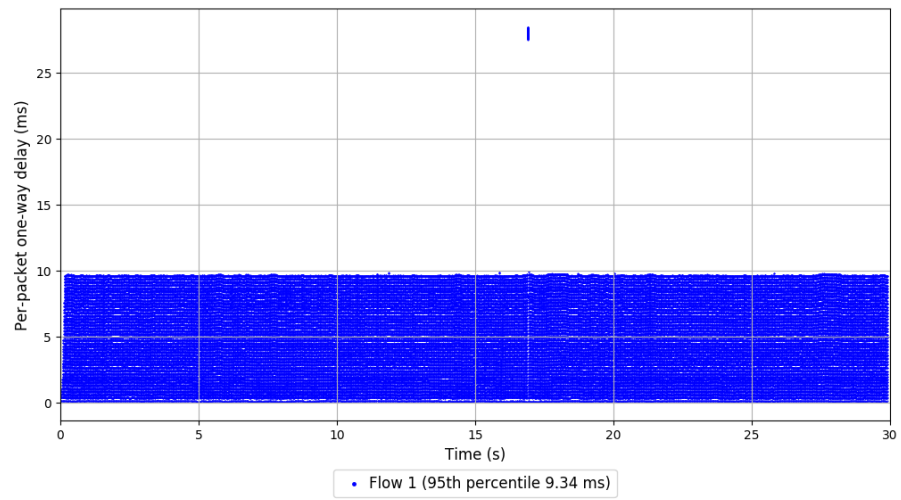
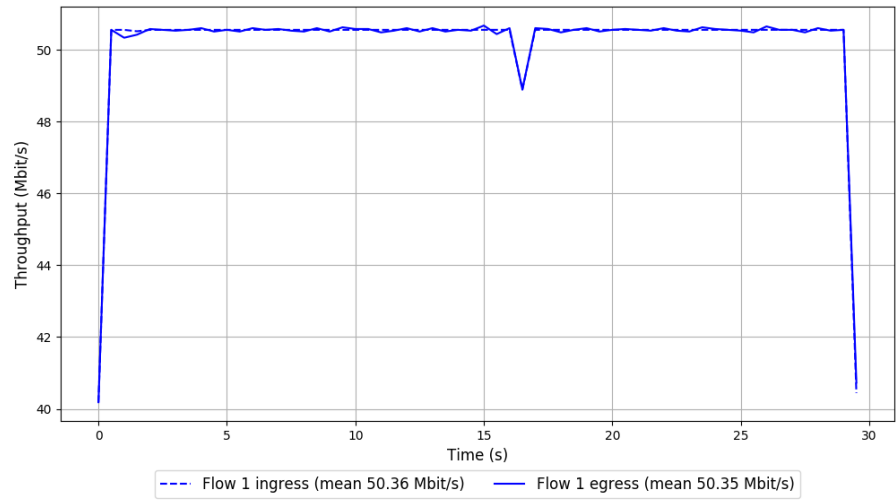Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2018-04-17 07:14:11
End at: 2018-04-17 07:14:41
Local clock offset: -5.171 ms
Remote clock offset: -6.577 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 3.756 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 3.756 ms
Loss rate: 0.00%
```
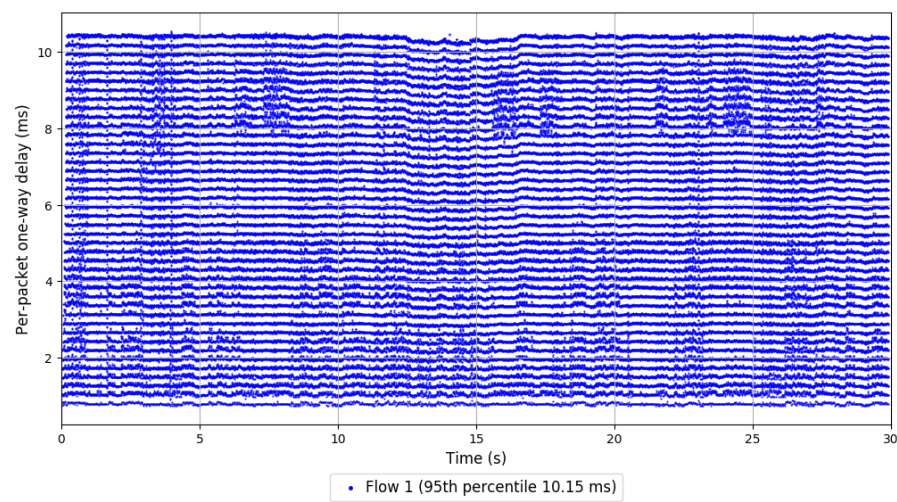
Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-04-17 07:33:13
End at: 2018-04-17 07:33:43
Local clock offset: -5.115 ms
Remote clock offset: -6.517 ms


# Below is generated by plot.py at 2018-04-17 08:20:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 3.880 ms
Loss rate: 0.00%
```
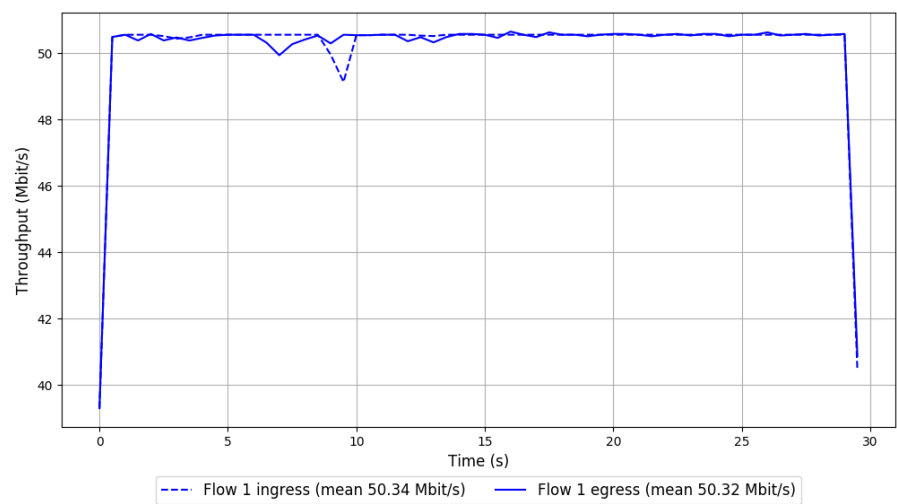
Run 10: Report of WebRTC media — Data Link

```
Run 1: Statistics of Sprout

Start at: 2018-04-17 04:34:08
End at: 2018-04-17 04:34:38
Local clock offset: -5.068 ms
Remote clock offset: -6.942 ms


# Below is generated by plot.py at 2018-04-17 08:20:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 9.335 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.35 Mbit/s
95th percentile per-packet one-way delay: 9.335 ms
Loss rate: 0.00%
```

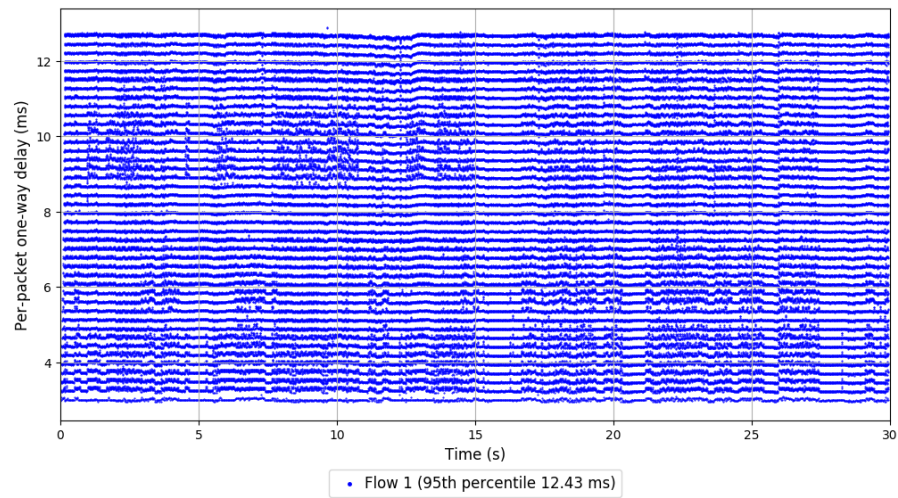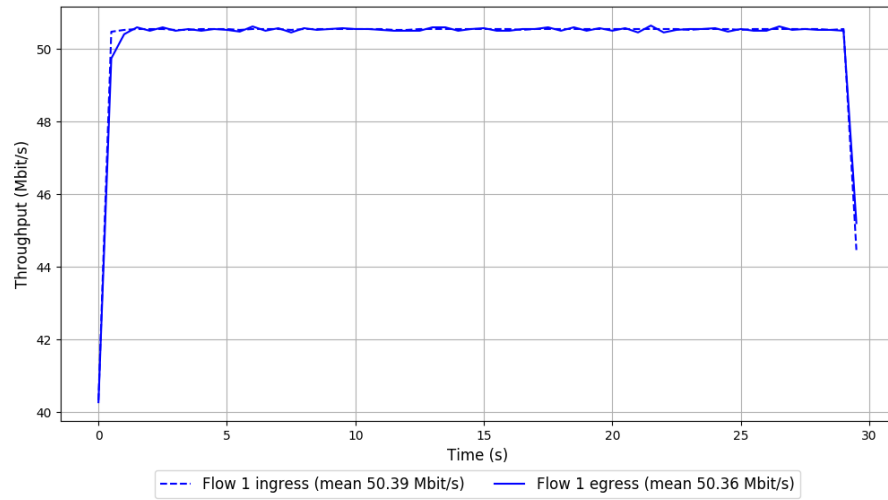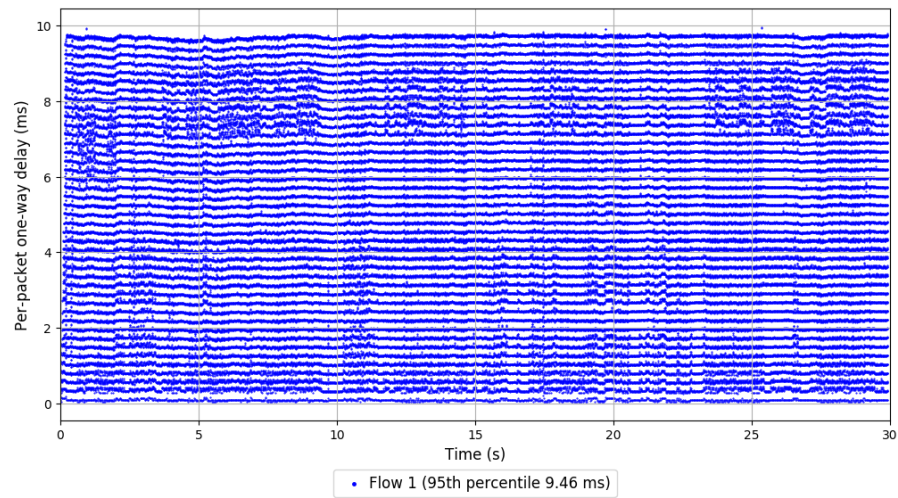Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-04-17 04:53:08
End at: 2018-04-17 04:53:38
Local clock offset: -5.922 ms
Remote clock offset: -6.871 ms


# Below is generated by plot.py at 2018-04-17 08:20:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 10.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.32 Mbit/s
95th percentile per-packet one-way delay: 10.148 ms
Loss rate: 0.00%
```

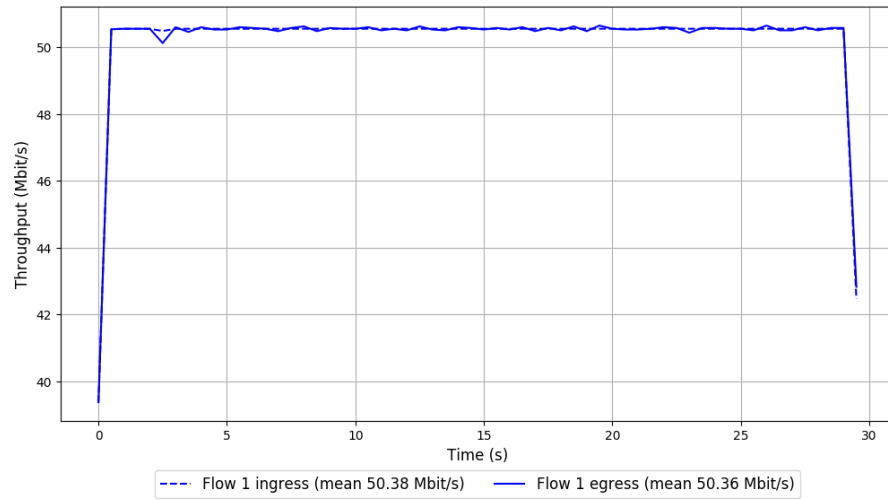Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-04-17 05:12:10
End at: 2018-04-17 05:12:40
Local clock offset: -6.86 ms
Remote clock offset: -6.743 ms


# Below is generated by plot.py at 2018-04-17 08:20:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 12.431 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 12.431 ms
Loss rate: 0.02%
```

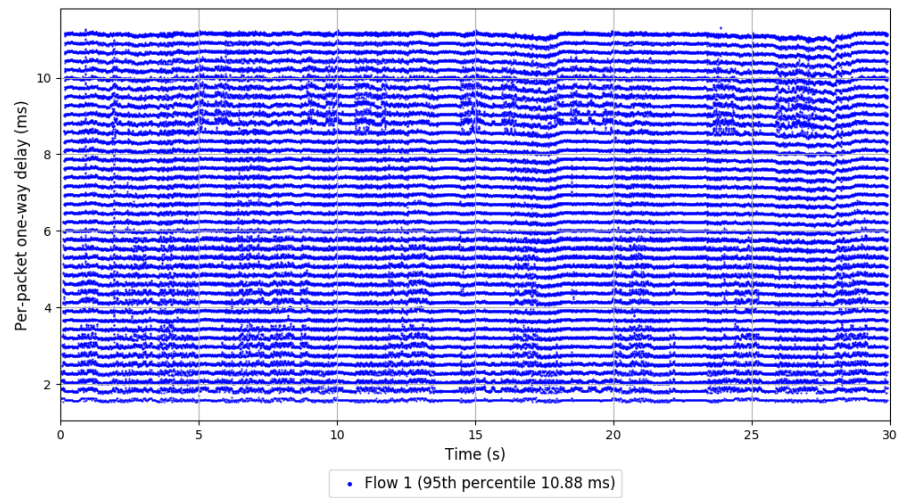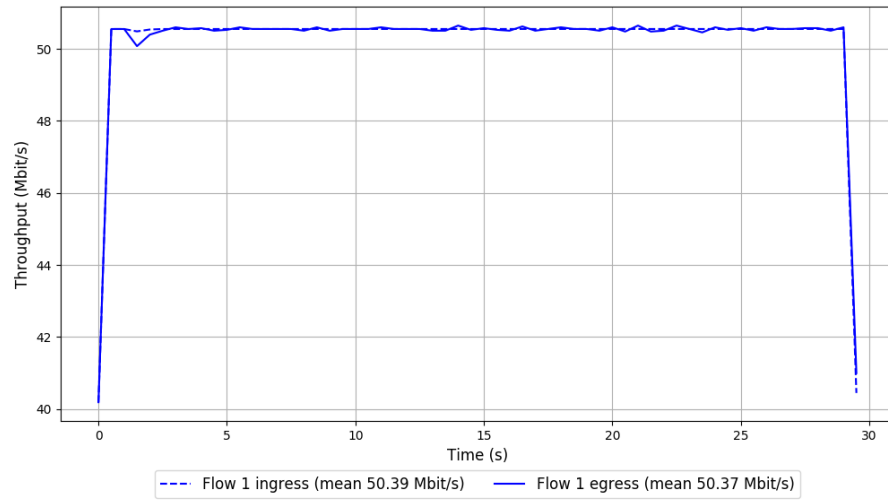Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2018-04-17 05:31:14
End at: 2018-04-17 05:31:44
Local clock offset: -5.327 ms
Remote clock offset: -6.478 ms


# Below is generated by plot.py at 2018-04-17 08:20:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 9.462 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 9.462 ms
Loss rate: 0.00%
```

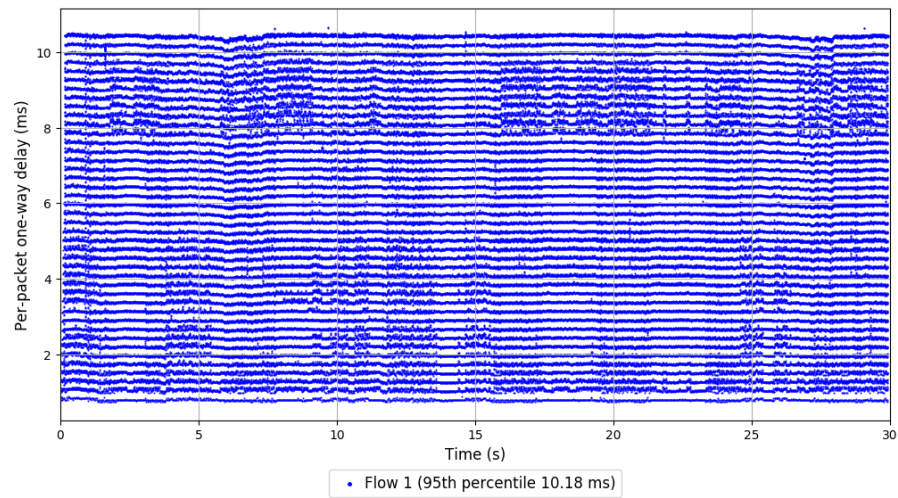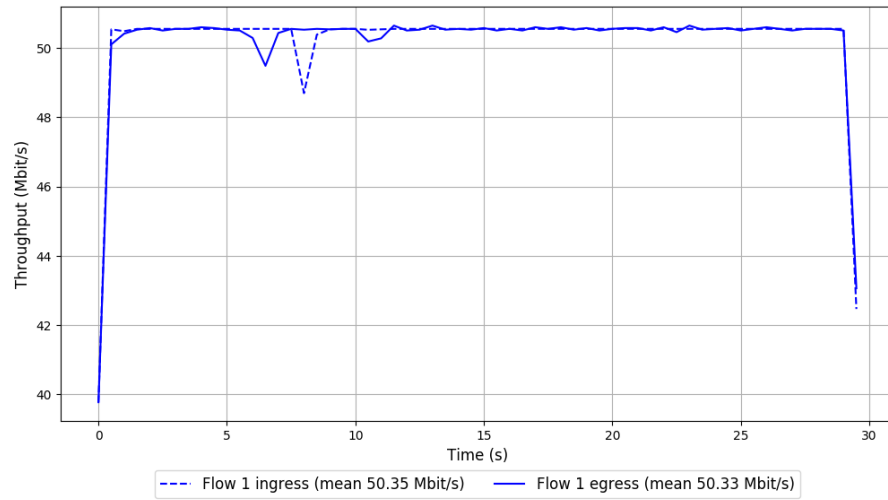Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-04-17 05:50:16
End at: 2018-04-17 05:50:46
Local clock offset: -6.831 ms
Remote clock offset: -6.653 ms


# Below is generated by plot.py at 2018-04-17 08:20:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.37 Mbit/s
95th percentile per-packet one-way delay: 10.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.37 Mbit/s
95th percentile per-packet one-way delay: 10.881 ms
Loss rate: 0.00%
```

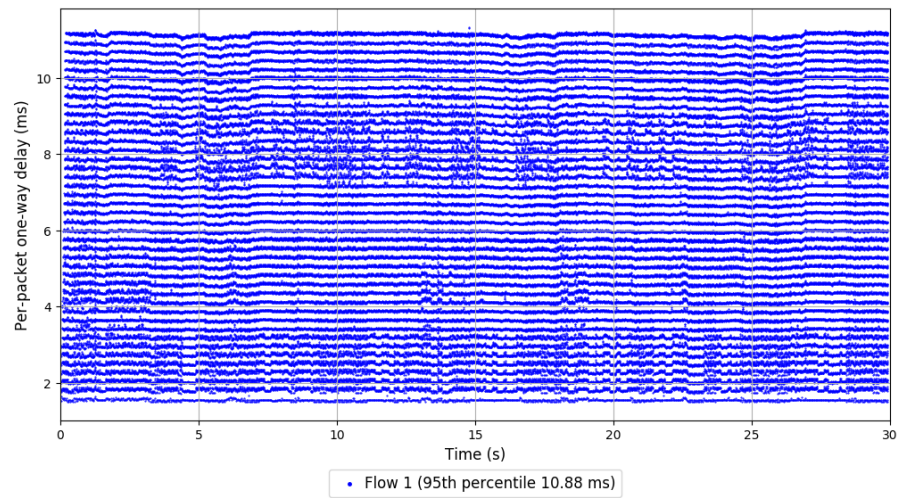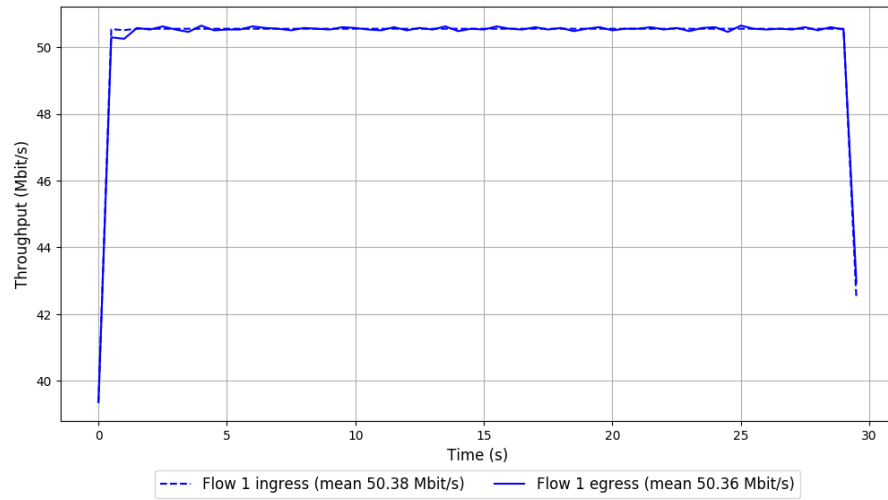Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 50.39 Mbit/s) ----- Flow 1 egress (mean 50.37 Mbit/s)

• Flow 1 (95th percentile 10.88 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-04-17 06:09:16
End at: 2018-04-17 06:09:46
Local clock offset: -5.961 ms
Remote clock offset: -6.775 ms


# Below is generated by plot.py at 2018-04-17 08:20:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 10.179 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.33 Mbit/s
95th percentile per-packet one-way delay: 10.179 ms
Loss rate: 0.00%
```

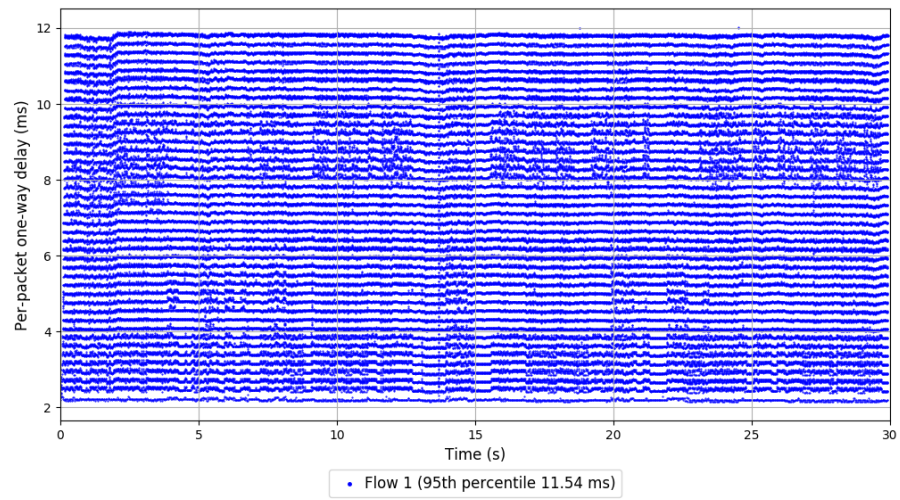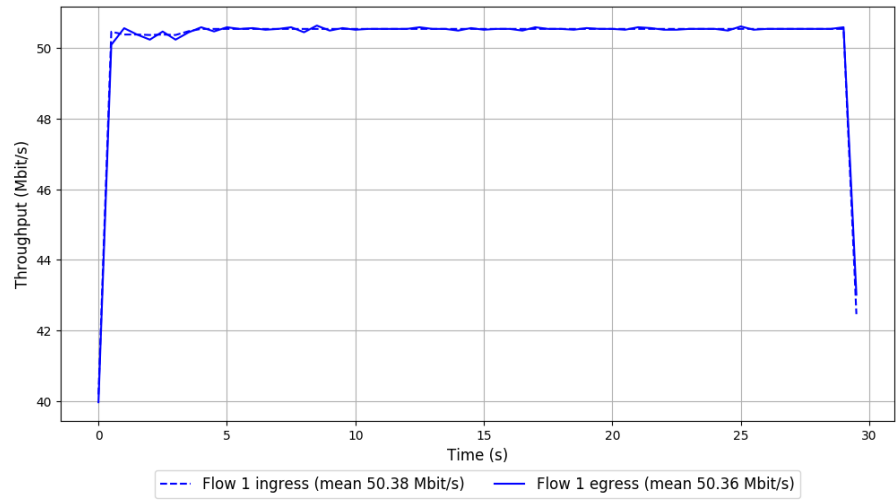# Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2018-04-17 06:28:18
End at: 2018-04-17 06:28:48
Local clock offset: -5.196 ms
Remote clock offset: -7.078 ms


# Below is generated by plot.py at 2018-04-17 08:20:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 10.883 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 10.883 ms
Loss rate: 0.00%
```

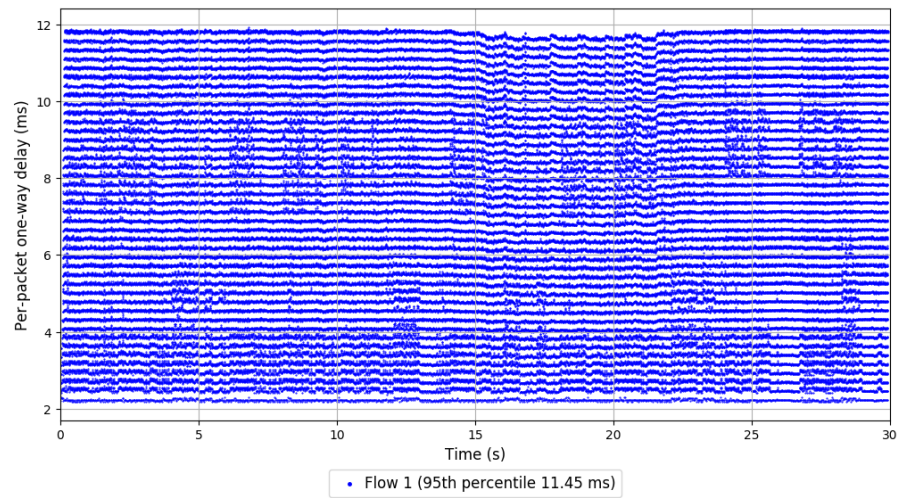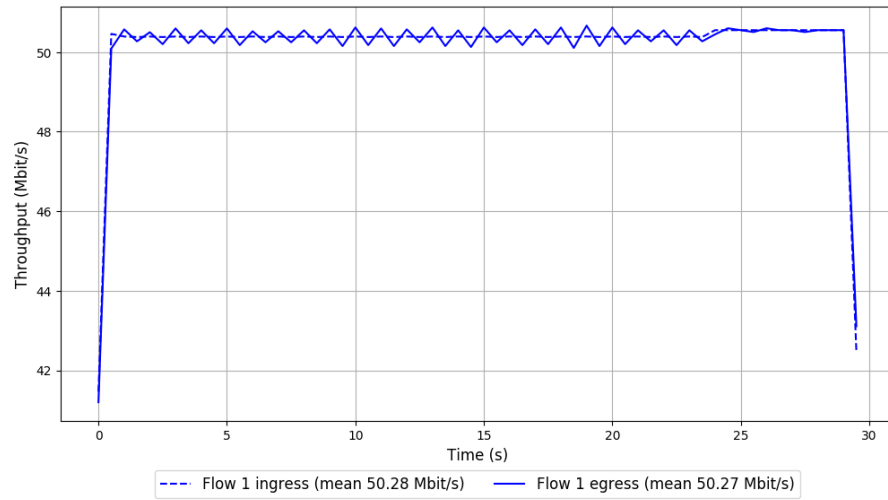Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2018-04-17 06:47:20
End at: 2018-04-17 06:47:50
Local clock offset: -5.953 ms
Remote clock offset: -7.279 ms


# Below is generated by plot.py at 2018-04-17 08:21:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 11.542 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.36 Mbit/s
95th percentile per-packet one-way delay: 11.542 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2018-04-17 07:06:24
End at: 2018-04-17 07:06:54
Local clock offset: -5.968 ms
Remote clock offset: -6.714 ms


# Below is generated by plot.py at 2018-04-17 08:21:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 11.446 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 11.446 ms
Loss rate: 0.00%
```
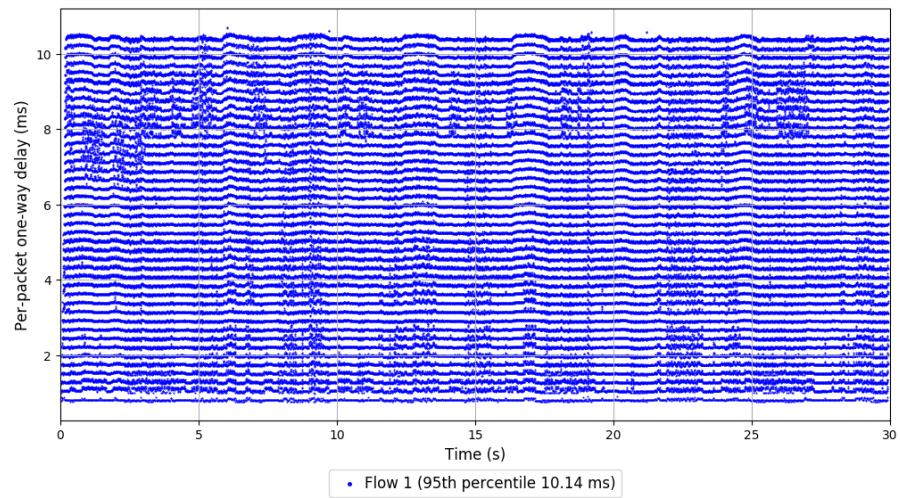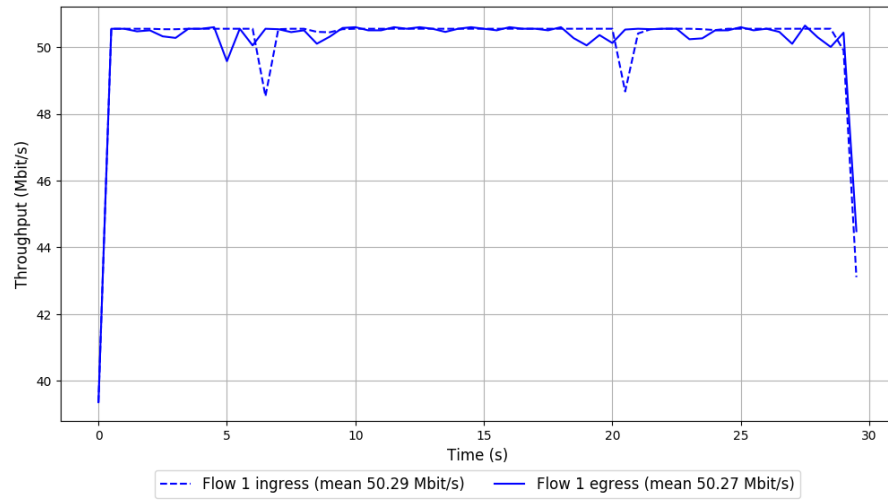
Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2018-04-17 07:25:25
End at: 2018-04-17 07:25:55
Local clock offset: -5.91 ms
Remote clock offset: -6.592 ms


# Below is generated by plot.py at 2018-04-17 08:21:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 10.142 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 10.142 ms
Loss rate: 0.00%
```
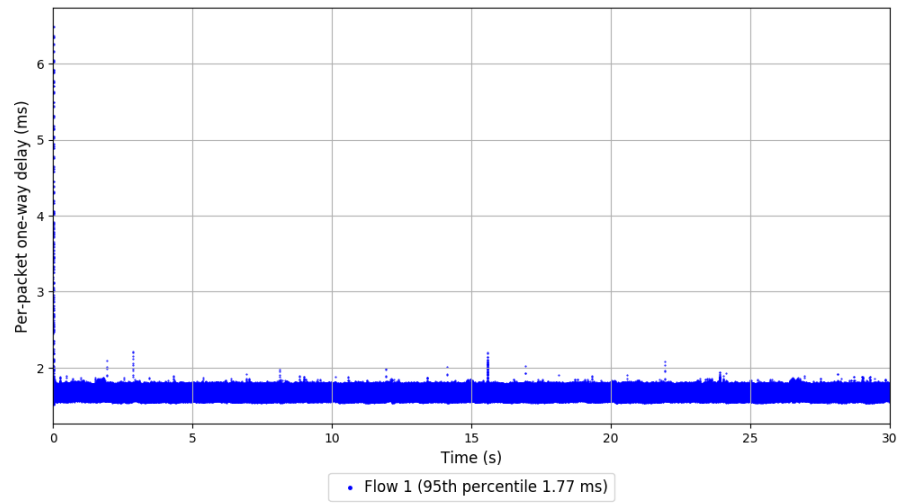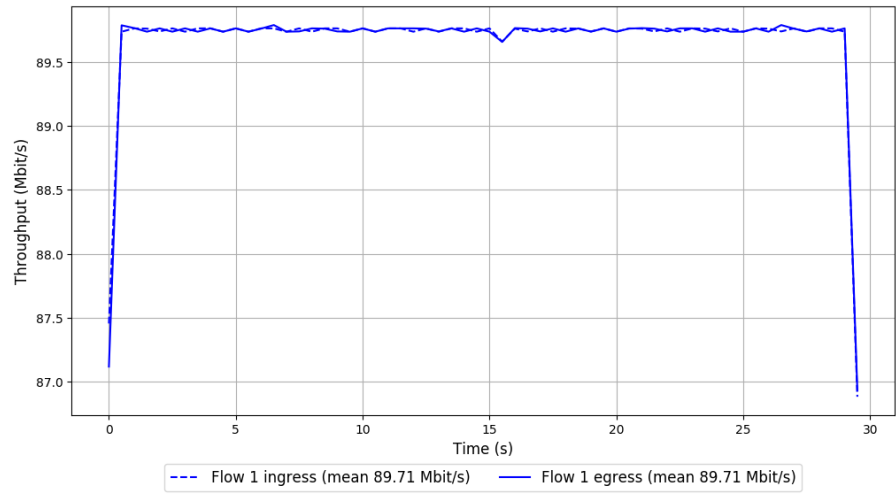
Run 10: Report of Sprout — Data Link

Flow 1 ingress (mean 50.29 Mbit/s) ----   Flow 1 egress (mean 50.27 Mbit/s) ——
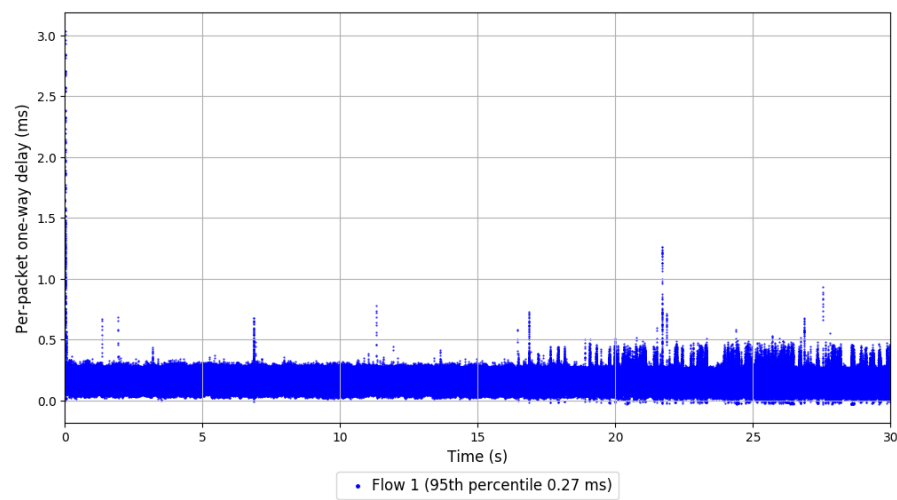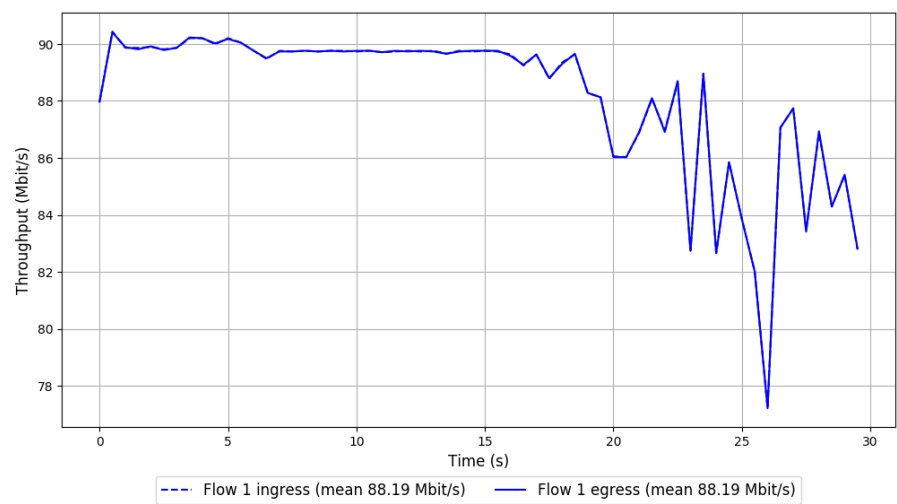

• Flow 1 (95th percentile 10.14 ms)

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

Start at: 2018-04-17 04:45:08
End at: 2018-04-17 04:45:38
Local clock offset: -5.1 ms
Remote clock offset: -6.857 ms

# Below is generated by plot.py at 2018-04-17 08:23:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.71 Mbit/s
95th percentile per-packet one-way delay: 1.773 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.71 Mbit/s
95th percentile per-packet one-way delay: 1.773 ms
Loss rate: 0.00%
```

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

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

Start at: 2018-04-17 05:04:11
End at: 2018-04-17 05:04:41
Local clock offset: -5.299 ms
Remote clock offset: -6.968 ms


# Below is generated by plot.py at 2018-04-17 08:23:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.19 Mbit/s
95th percentile per-packet one-way delay: 0.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.19 Mbit/s
95th percentile per-packet one-way delay: 0.268 ms
Loss rate: 0.00%
```
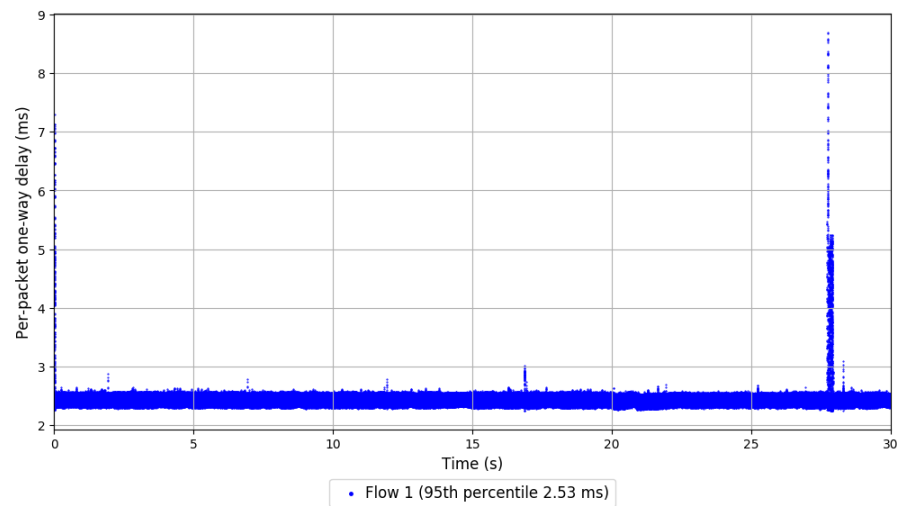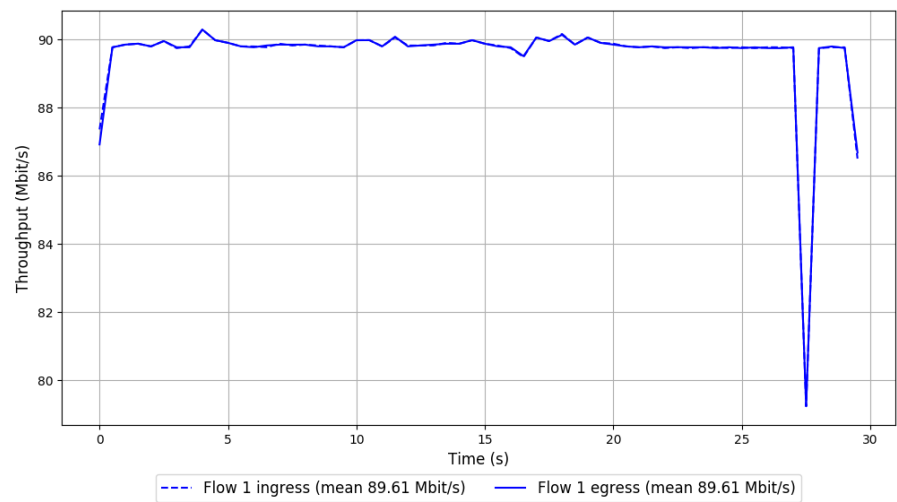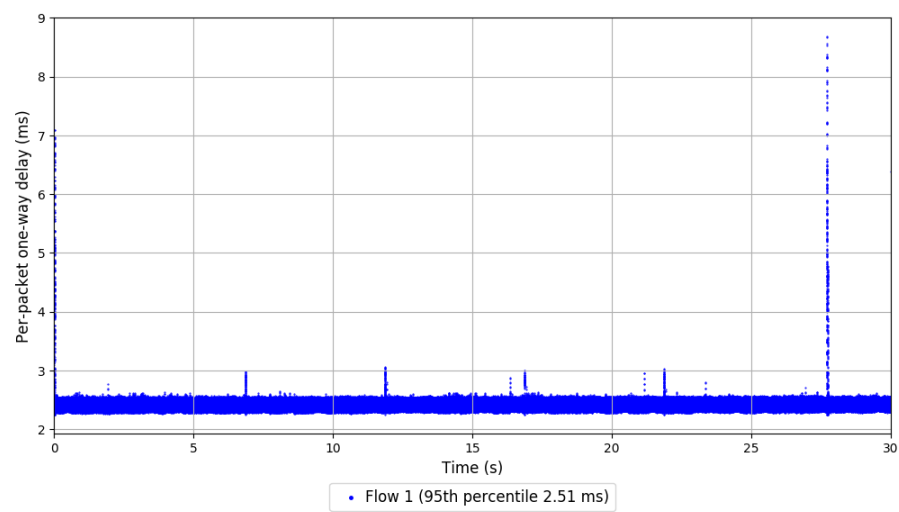
Run 2: Report of TaoVA-100x — Data Link
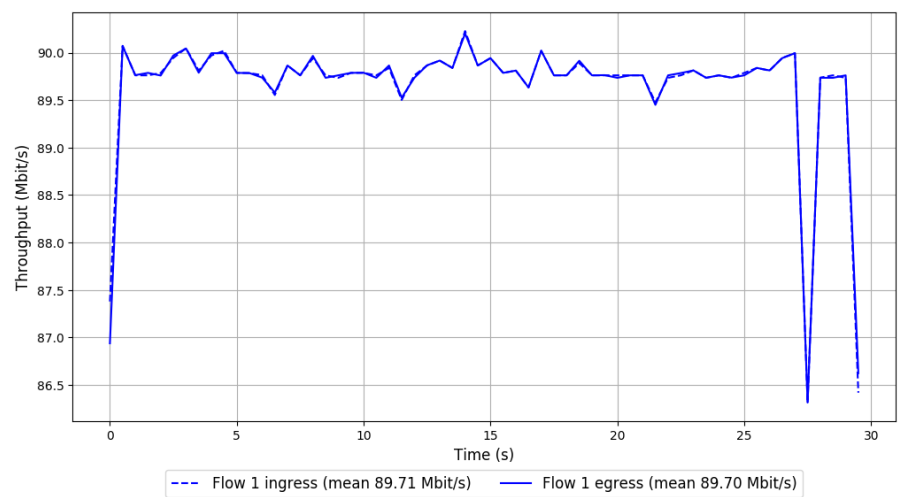

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```
Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 05:23:13
End at: 2018-04-17 05:23:43
Local clock offset: -6.141 ms
Remote clock offset: -6.522 ms


# Below is generated by plot.py at 2018-04-17 08:23:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 2.526 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.61 Mbit/s
95th percentile per-packet one-way delay: 2.526 ms
Loss rate: 0.00%
```
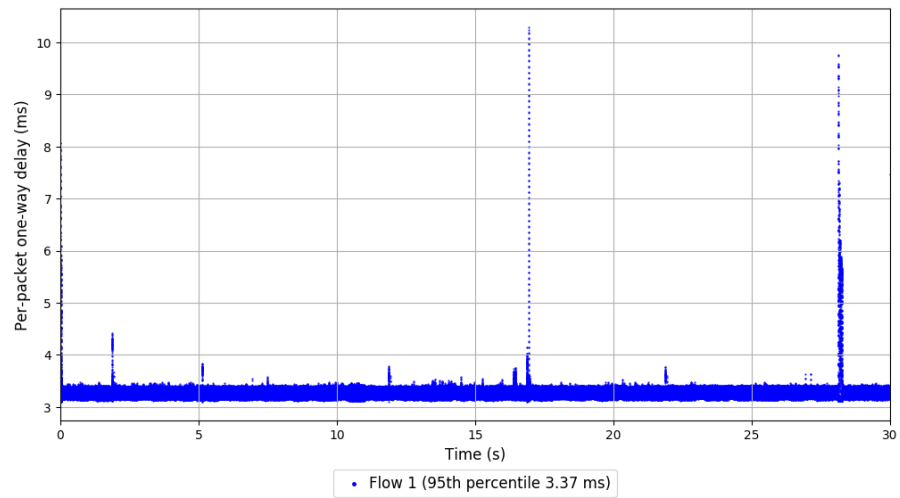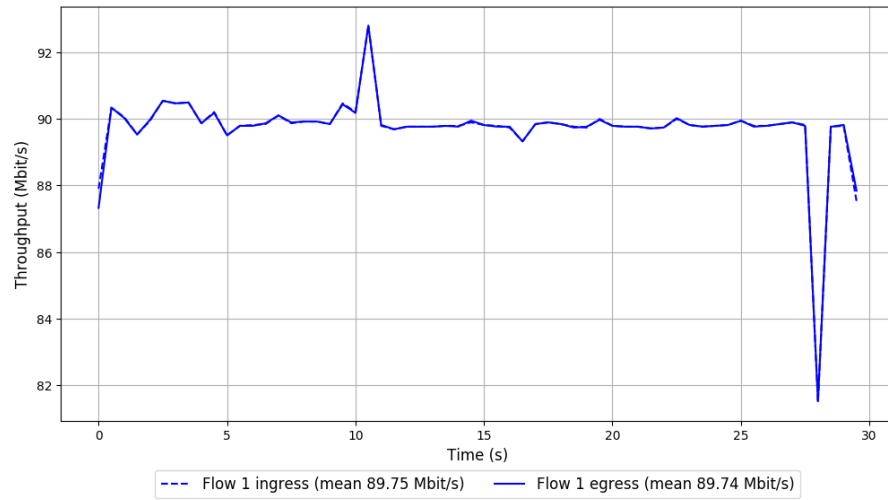
Run 3: Report of TaoVA-100x — Data Link

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

Flow 1 (95th percentile 2.53 ms)

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

Start at: 2018-04-17 05:42:18
End at: 2018-04-17 05:42:48
Local clock offset: -6.051 ms
Remote clock offset: -6.573 ms


# Below is generated by plot.py at 2018-04-17 08:23:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 2.513 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 2.513 ms
Loss rate: 0.00%
```
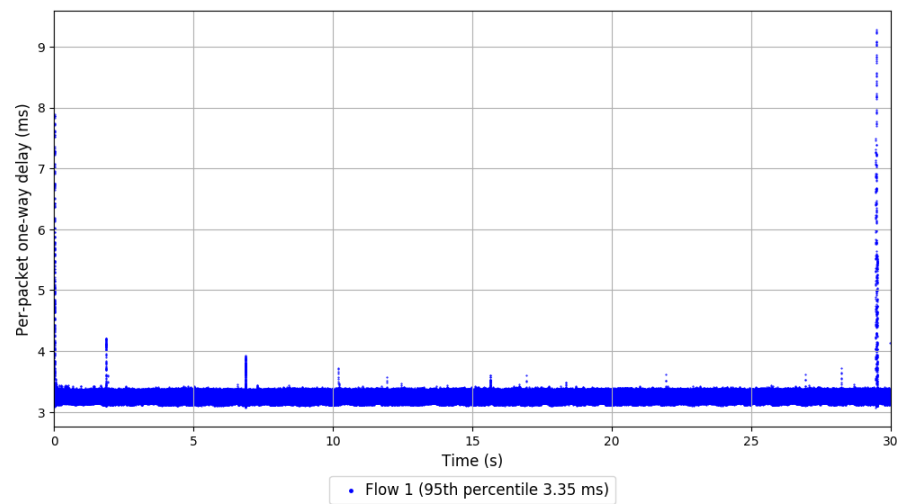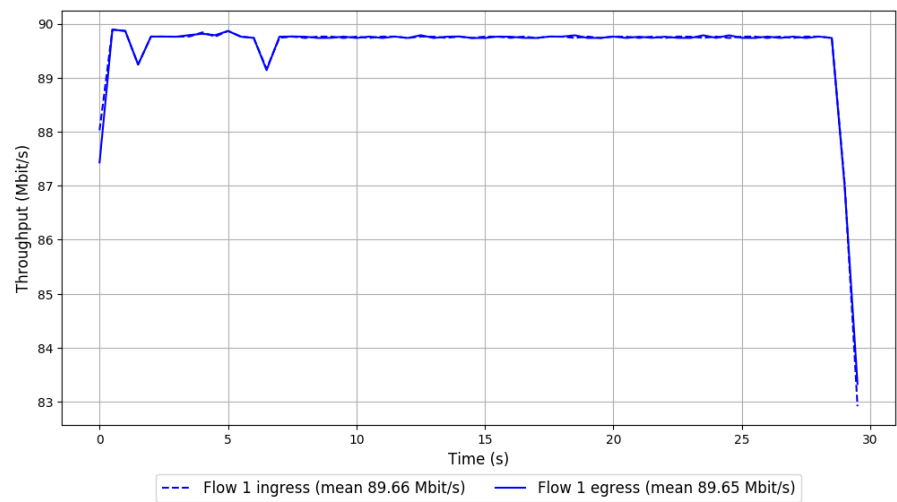
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 89.71 Mbit/s) — — — Flow 1 egress (mean 89.70 Mbit/s)

• Flow 1 (95th percentile 2.51 ms)

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

Start at: 2018-04-17 06:01:19
End at: 2018-04-17 06:01:49
Local clock offset: -6.845 ms
Remote clock offset: -6.731 ms


# Below is generated by plot.py at 2018-04-17 08:23:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.74 Mbit/s
95th percentile per-packet one-way delay: 3.368 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.74 Mbit/s
95th percentile per-packet one-way delay: 3.368 ms
Loss rate: 0.00%
```
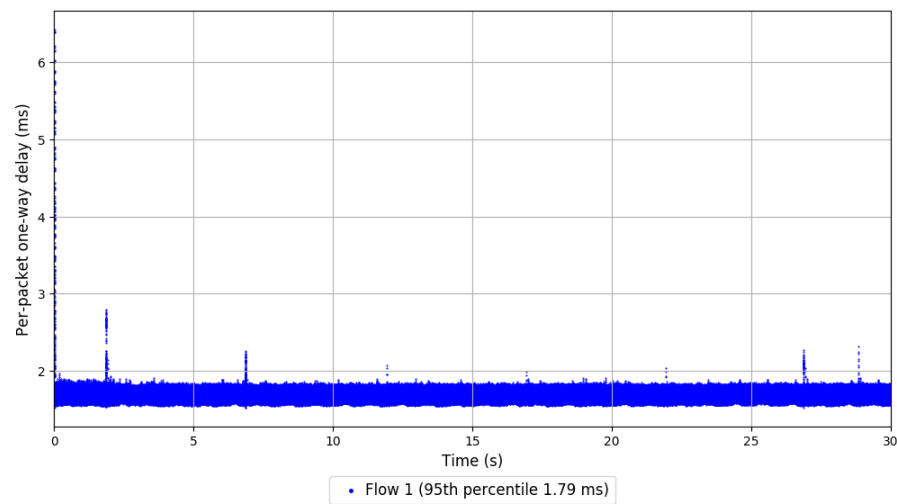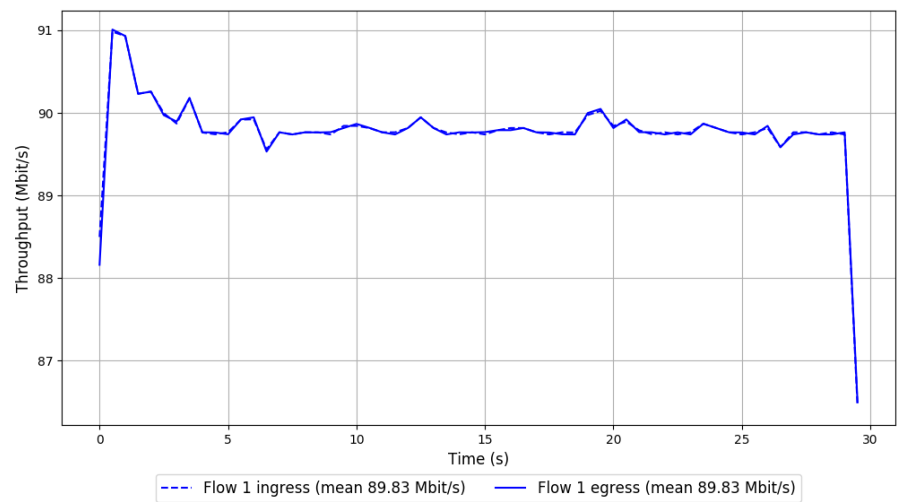
Run 5: Report of TaoVA-100x — Data Link

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

Start at: 2018-04-17 06:20:20
End at: 2018-04-17 06:20:50
Local clock offset: -6.774 ms
Remote clock offset: -6.977 ms


# Below is generated by plot.py at 2018-04-17 08:23:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.65 Mbit/s
95th percentile per-packet one-way delay: 3.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.65 Mbit/s
95th percentile per-packet one-way delay: 3.345 ms
Loss rate: 0.00%
```
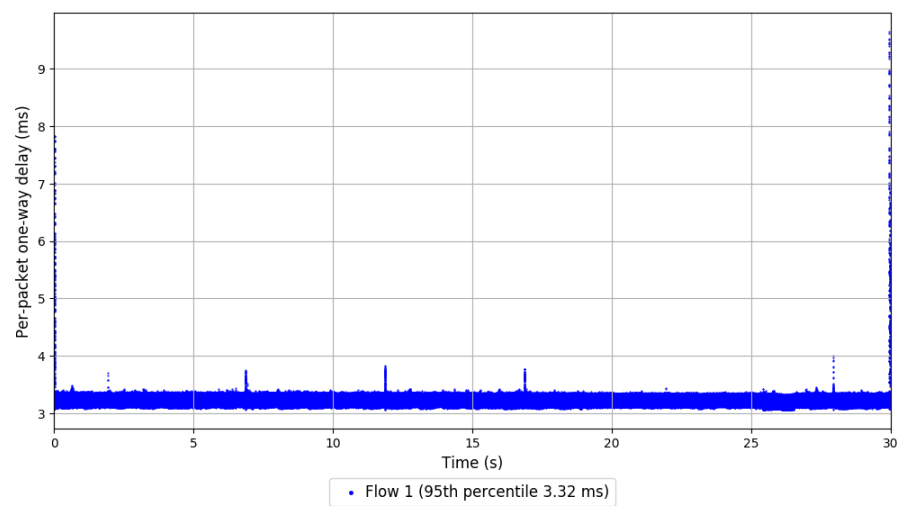
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 89.66 Mbit/s) --- Flow 1 egress (mean 89.65 Mbit/s)

Flow 1 (95th percentile 3.35 ms)

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

Start at: 2018-04-17 06:39:21
End at: 2018-04-17 06:39:51
Local clock offset: -5.224 ms
Remote clock offset: -7.172 ms


# Below is generated by plot.py at 2018-04-17 08:23:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.83 Mbit/s
95th percentile per-packet one-way delay: 1.791 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.83 Mbit/s
95th percentile per-packet one-way delay: 1.791 ms
Loss rate: 0.00%
```

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

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

Start at: 2018-04-17 06:58:23
End at: 2018-04-17 06:58:54
Local clock offset: -6.745 ms
Remote clock offset: -6.739 ms


# Below is generated by plot.py at 2018-04-17 08:23:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 3.320 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 3.320 ms
Loss rate: 0.00%
```
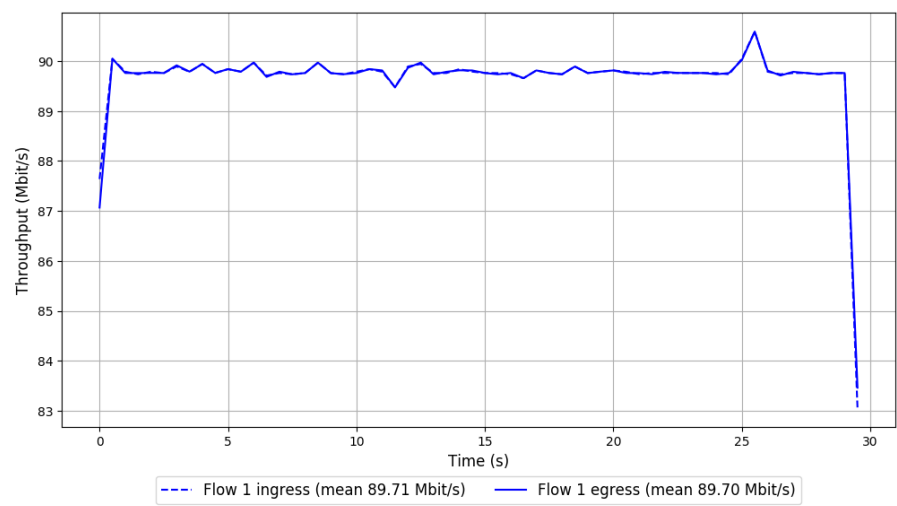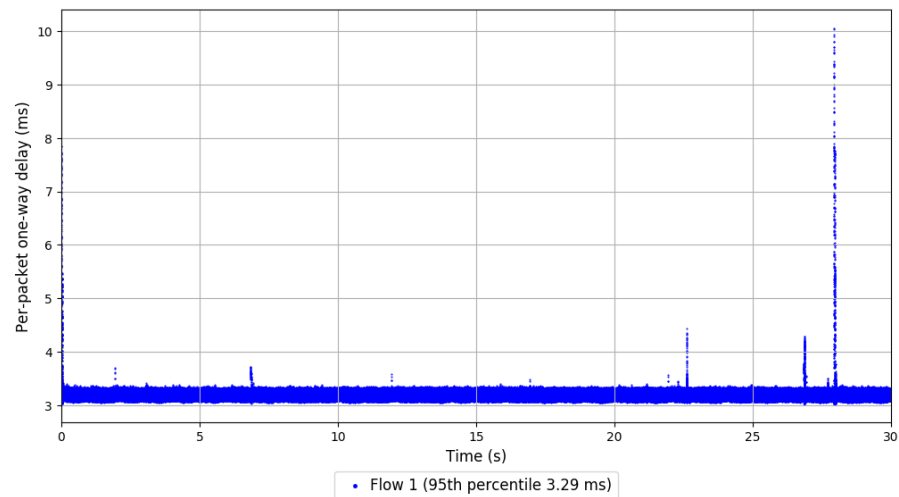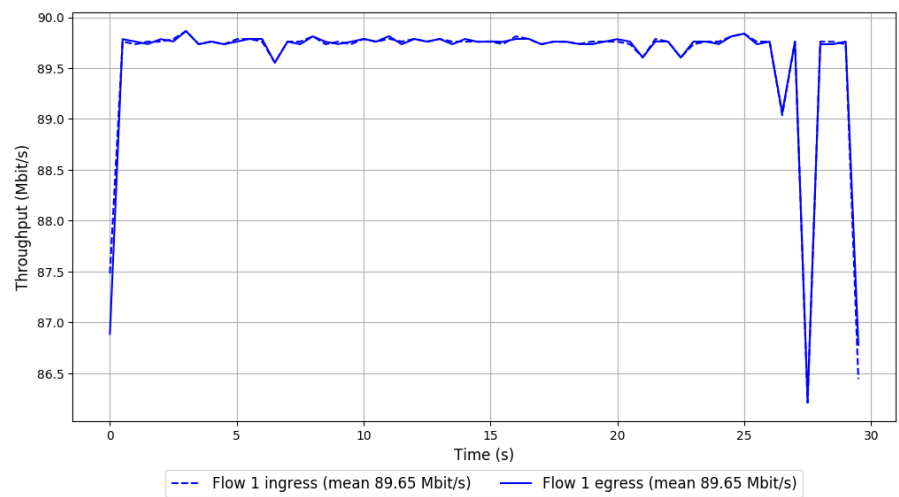
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 89.71 Mbit/s)   Flow 1 egress (mean 89.70 Mbit/s)

Flow 1 (95th percentile 3.32 ms)

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

Start at: 2018-04-17 07:17:27
End at: 2018-04-17 07:17:57
Local clock offset: -6.669 ms
Remote clock offset: -6.551 ms


# Below is generated by plot.py at 2018-04-17 08:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.65 Mbit/s
95th percentile per-packet one-way delay: 3.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.65 Mbit/s
95th percentile per-packet one-way delay: 3.290 ms
Loss rate: 0.00%
```
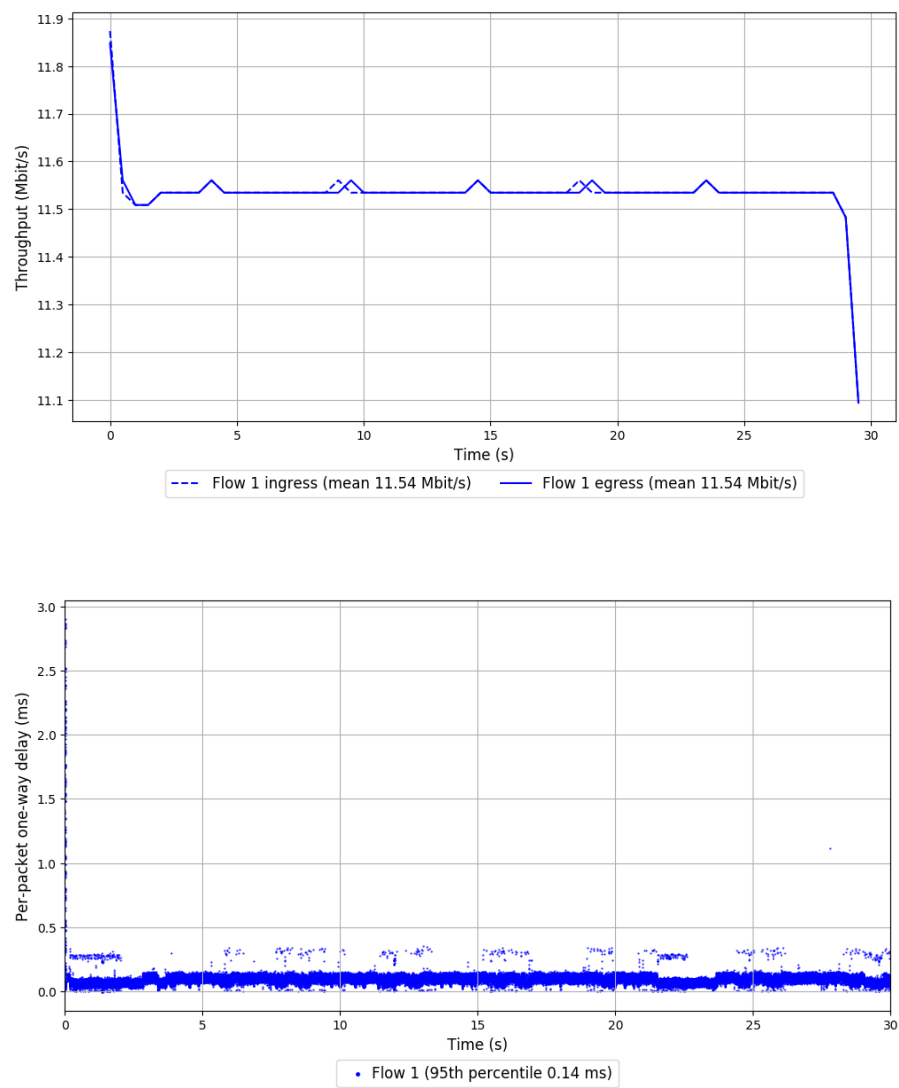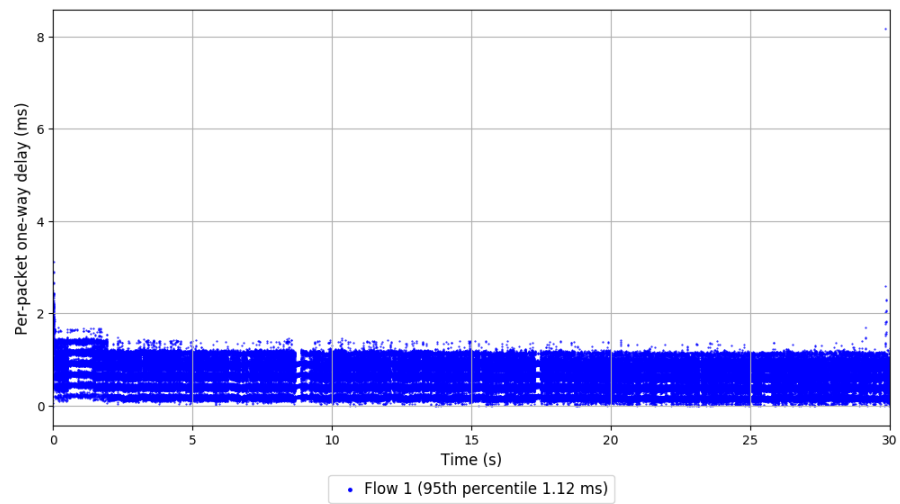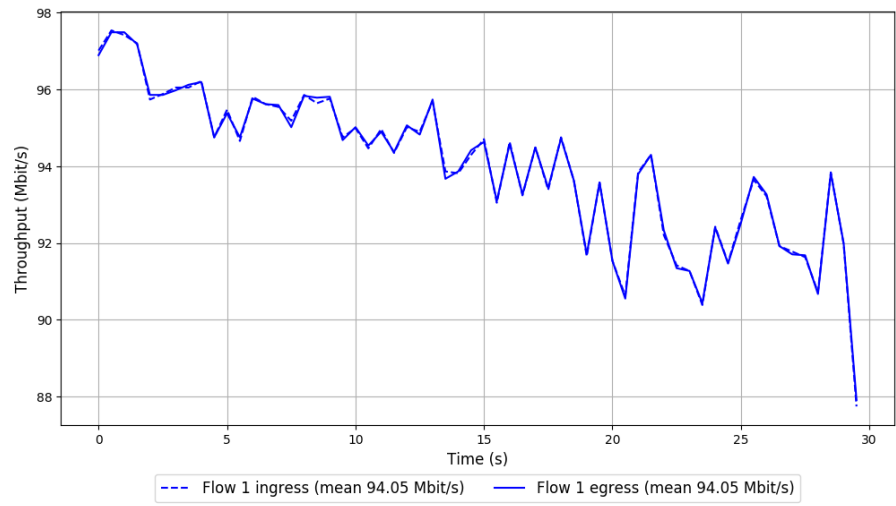
Run 9: Report of TaoVA-100x — Data Link

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

Start at: 2018-04-17 07:36:29
End at: 2018-04-17 07:36:59
Local clock offset: -5.125 ms
Remote clock offset: -6.577 ms


# Below is generated by plot.py at 2018-04-17 08:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 0.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 0.137 ms
Loss rate: 0.00%
```
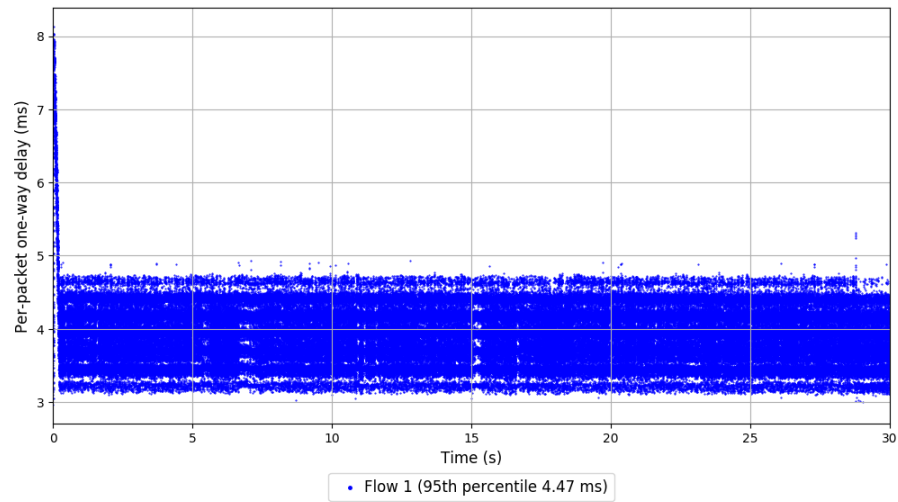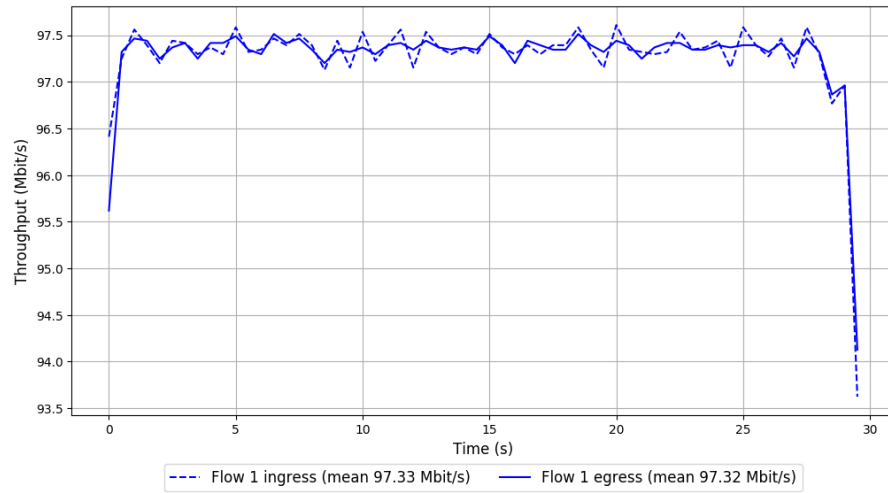
Run 10: Report of TaoVA-100x — Data Link

```
Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 04:50:53
End at: 2018-04-17 04:51:23
Local clock offset: -5.138 ms
Remote clock offset: -6.917 ms


# Below is generated by plot.py at 2018-04-17 08:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.05 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.05 Mbit/s
95th percentile per-packet one-way delay: 1.125 ms
Loss rate: 0.00%
```
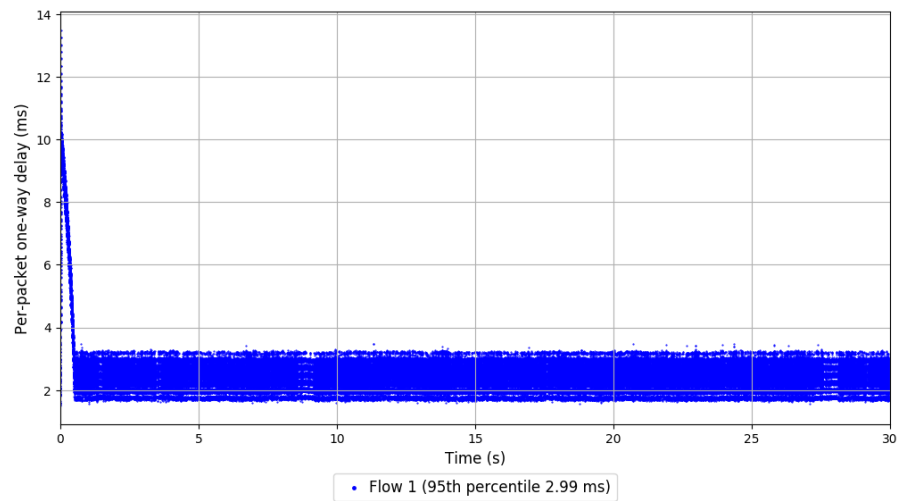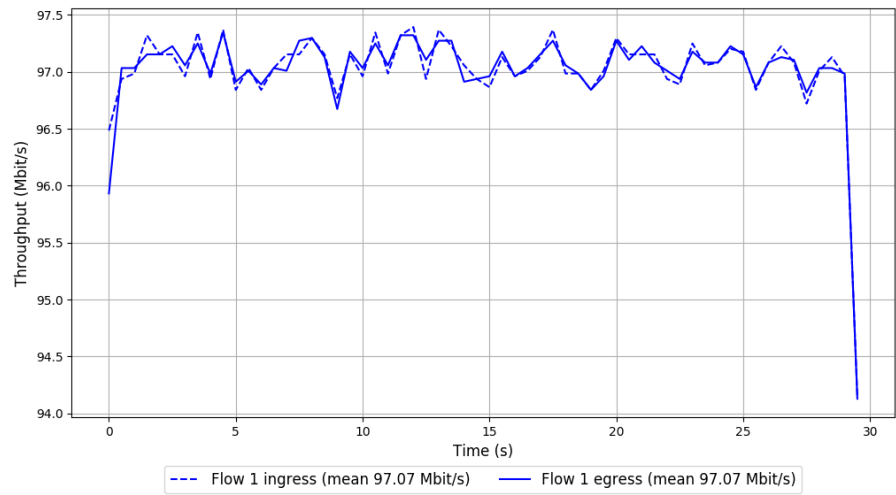
Run 1: Report of TCP Vegas — Data Link

```
Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 05:09:54
End at: 2018-04-17 05:10:24
Local clock offset: -6.842 ms
Remote clock offset: -6.734 ms


# Below is generated by plot.py at 2018-04-17 08:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 4.467 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.32 Mbit/s
95th percentile per-packet one-way delay: 4.467 ms
Loss rate: 0.00%
```
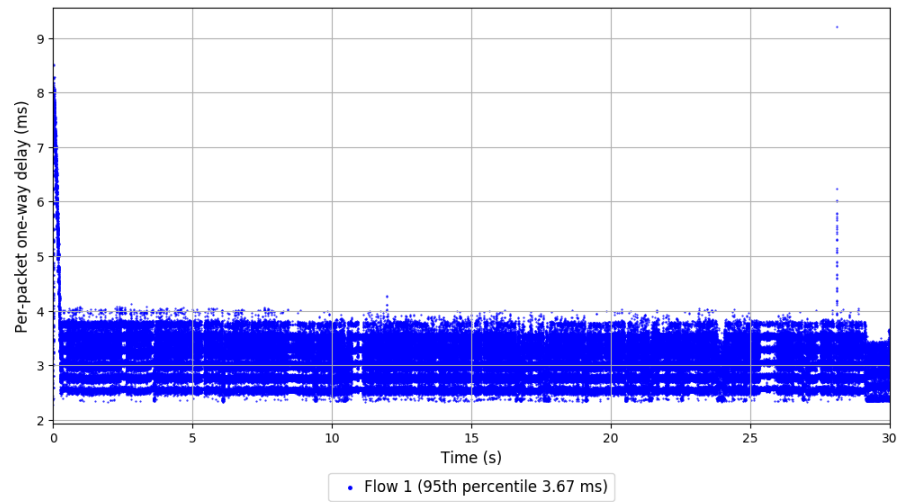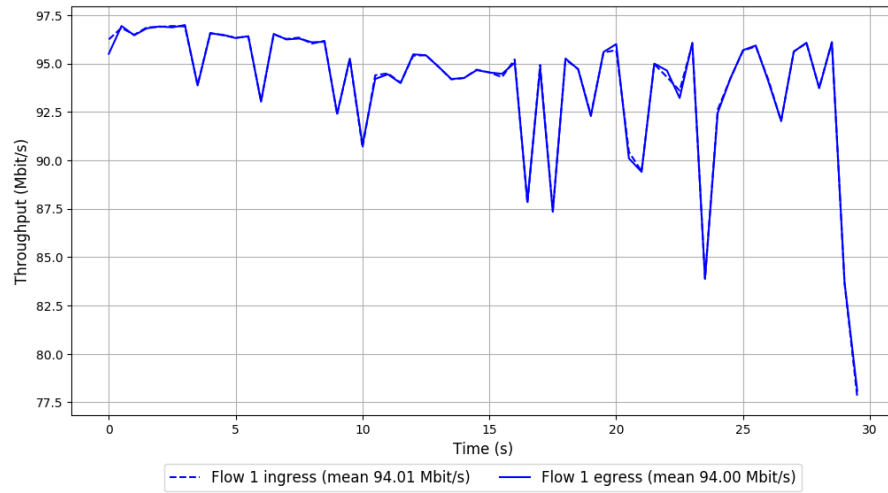
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 05:28:58
End at: 2018-04-17 05:29:28
Local clock offset: -5.34 ms
Remote clock offset: -6.466 ms


# Below is generated by plot.py at 2018-04-17 08:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 2.993 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.07 Mbit/s
95th percentile per-packet one-way delay: 2.993 ms
Loss rate: 0.01%
```

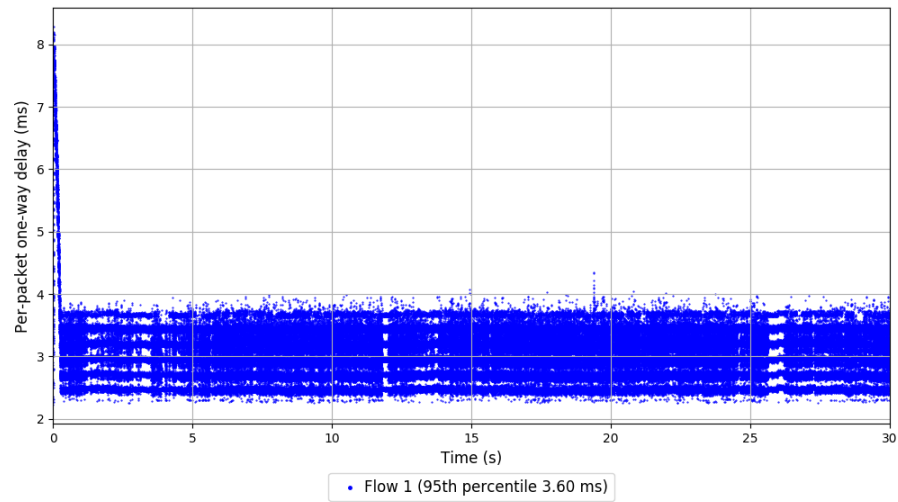Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 05:48:00
End at: 2018-04-17 05:48:30
Local clock offset: -6.104 ms
Remote clock offset: -6.62 ms


# Below is generated by plot.py at 2018-04-17 08:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 3.674 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 94.00 Mbit/s
95th percentile per-packet one-way delay: 3.674 ms
Loss rate: 0.01%
```

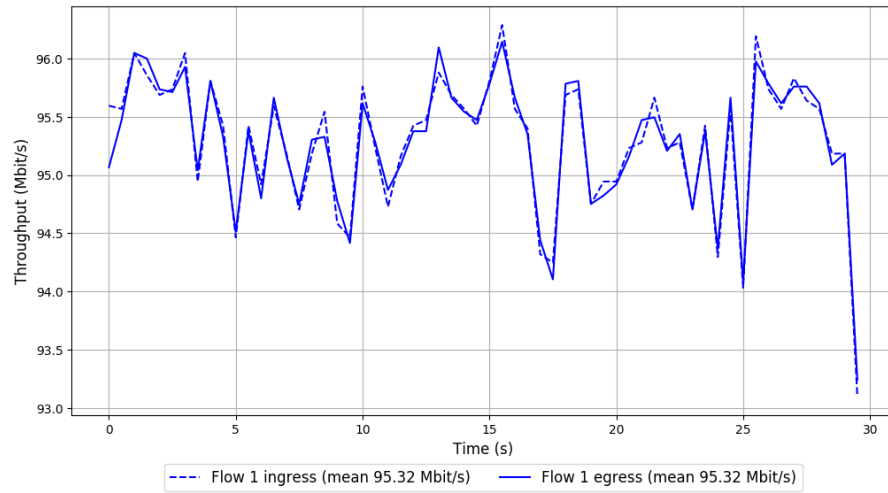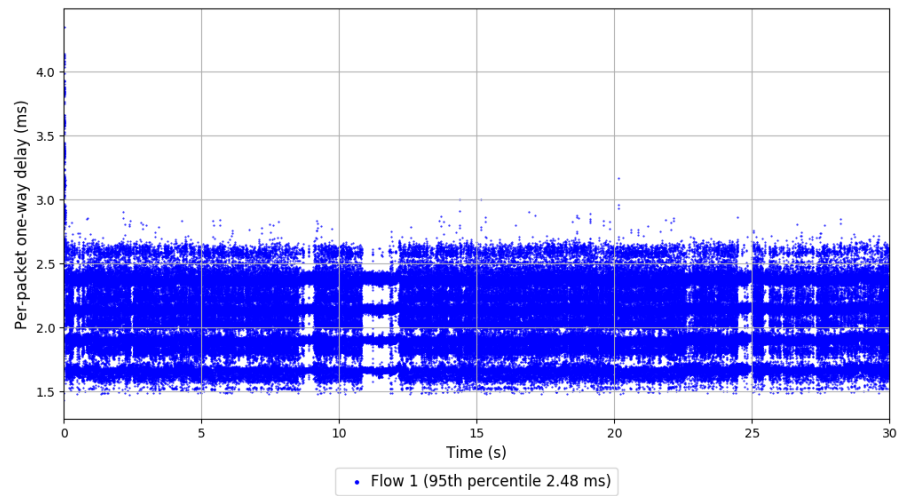Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 06:07:00
End at: 2018-04-17 06:07:30
Local clock offset: -5.98 ms
Remote clock offset: -6.771 ms


# Below is generated by plot.py at 2018-04-17 08:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 3.605 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.32 Mbit/s
95th percentile per-packet one-way delay: 3.605 ms
Loss rate: 0.01%
```

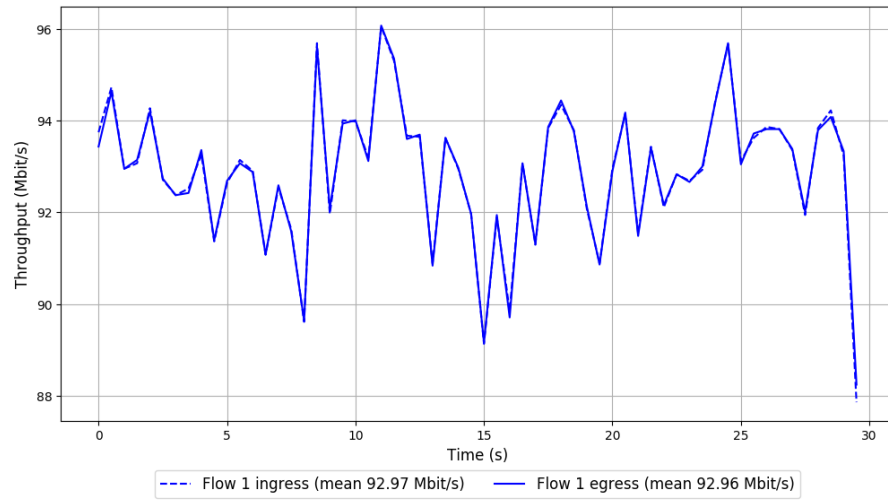# Run 5: Report of TCP Vegas — Data Link

```
Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 06:26:01
End at: 2018-04-17 06:26:31
Local clock offset: -6.701 ms
Remote clock offset: -7.106 ms


# Below is generated by plot.py at 2018-04-17 08:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 2.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 2.475 ms
Loss rate: 0.00%
```
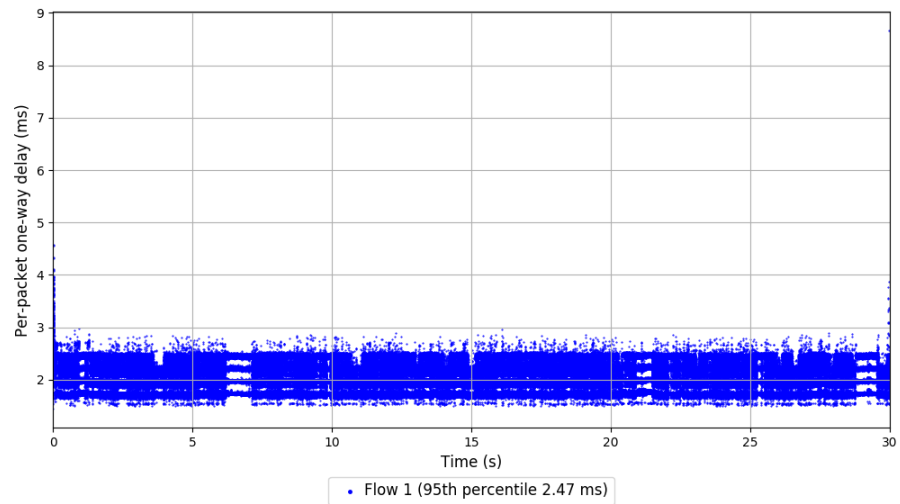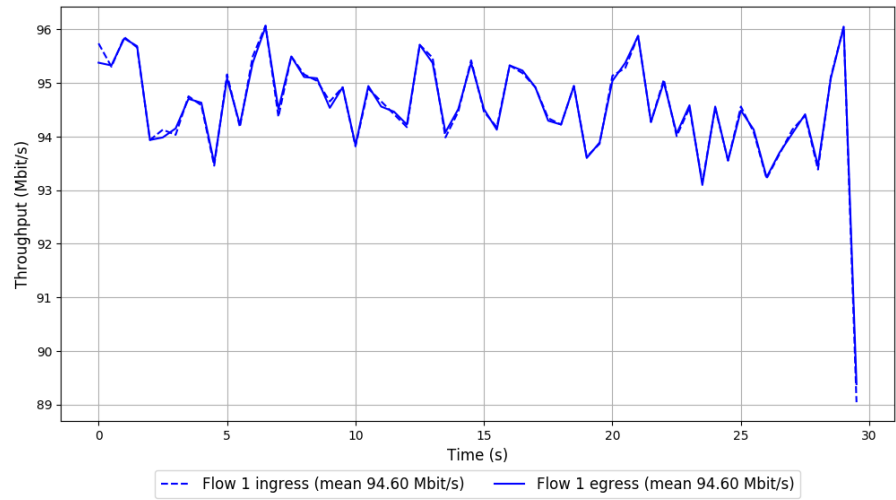
Run 6: Report of TCP Vegas — Data Link

```
Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 06:45:05
End at: 2018-04-17 06:45:35
Local clock offset: -6.709 ms
Remote clock offset: -7.217 ms


# Below is generated by plot.py at 2018-04-17 08:25:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: 2.466 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.60 Mbit/s
95th percentile per-packet one-way delay: 2.466 ms
Loss rate: 0.00%
```
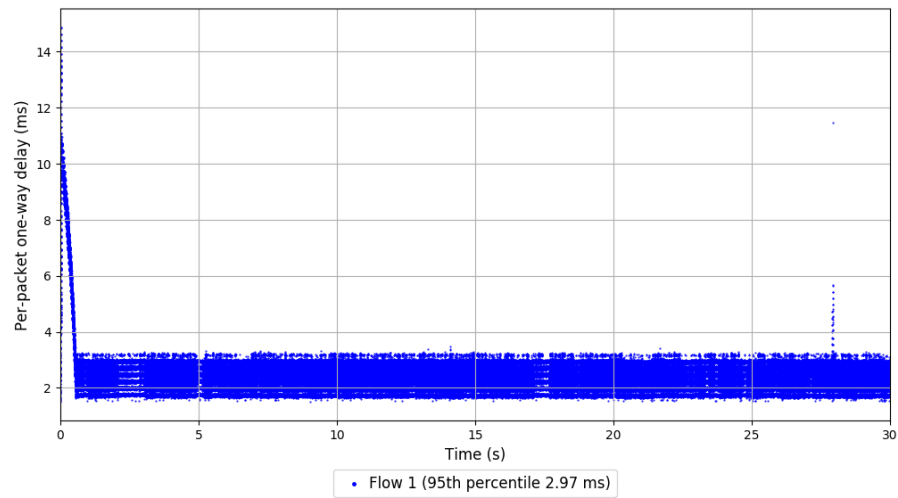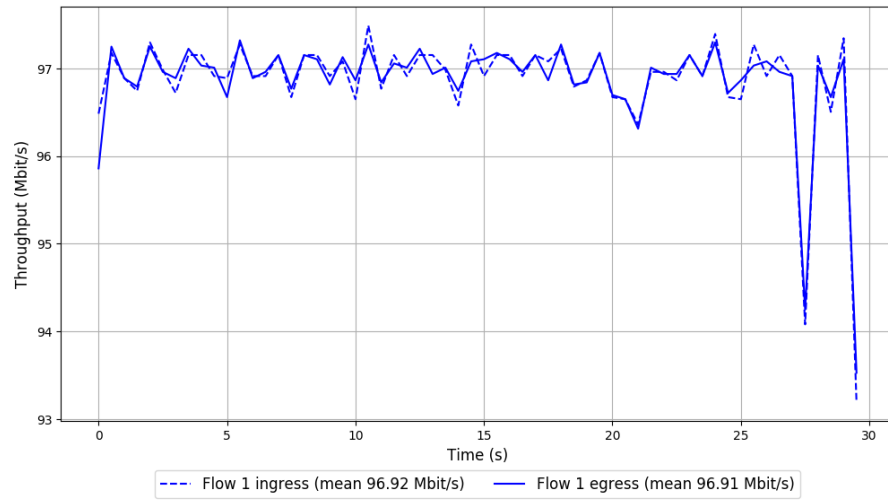
Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 07:04:09
End at: 2018-04-17 07:04:39
Local clock offset: -5.227 ms
Remote clock offset: -6.657 ms


# Below is generated by plot.py at 2018-04-17 08:26:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 2.967 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.91 Mbit/s
95th percentile per-packet one-way delay: 2.967 ms
Loss rate: 0.00%
```
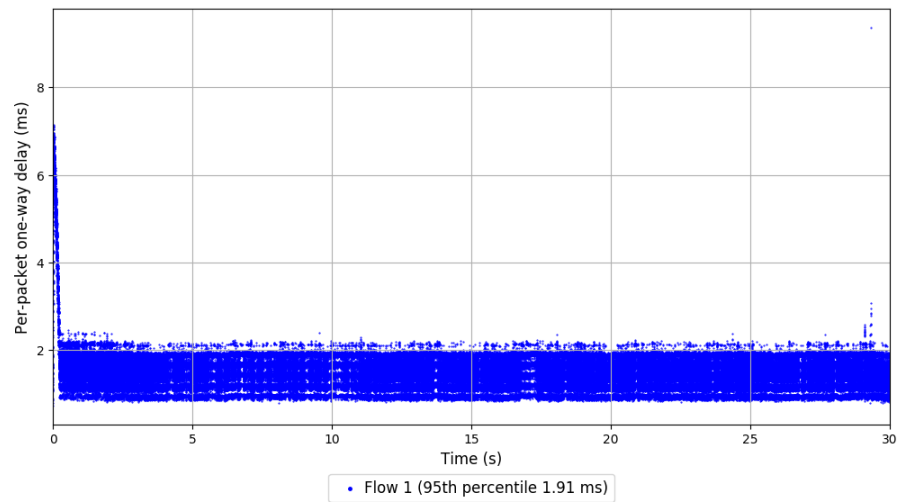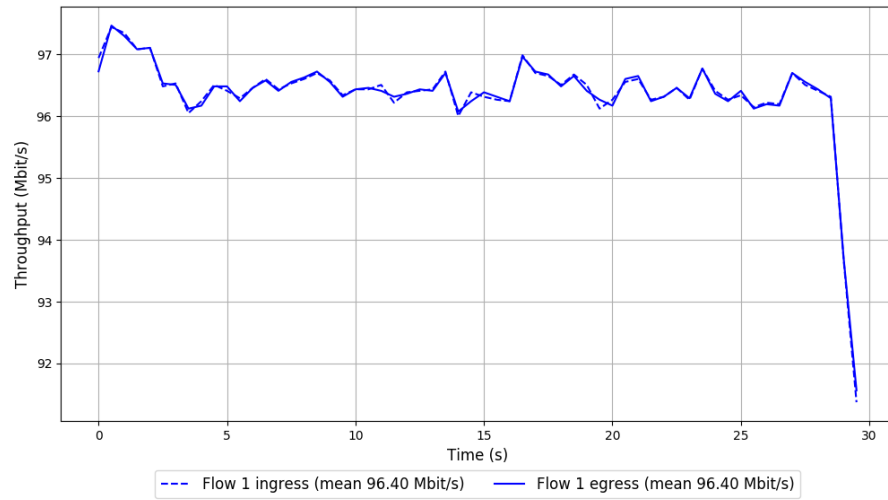
Run 8: Report of TCP Vegas — Data Link

```
Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 07:23:09
End at: 2018-04-17 07:23:39
Local clock offset: -5.855 ms
Remote clock offset: -6.526 ms


# Below is generated by plot.py at 2018-04-17 08:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 1.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 1.914 ms
Loss rate: 0.00%
```
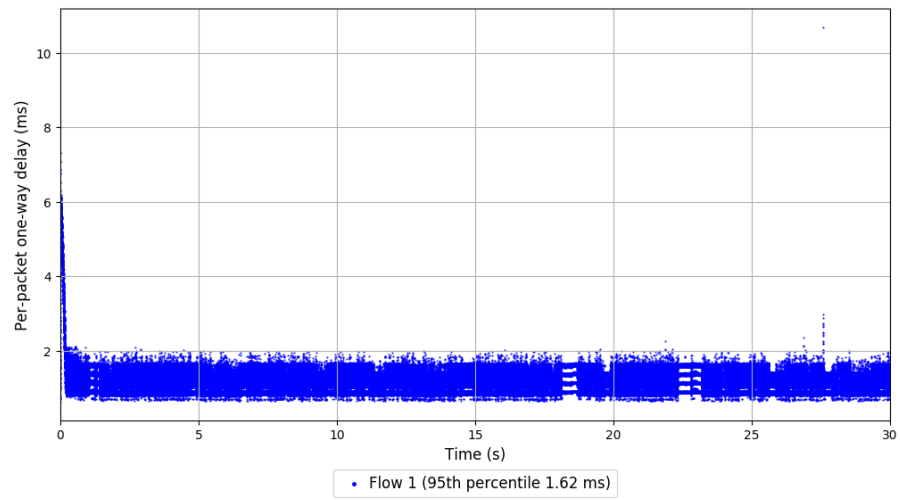
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.40 Mbit/s) --- Flow 1 egress (mean 96.40 Mbit/s)

Flow 1 (95th percentile 1.91 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 07:42:08
End at: 2018-04-17 07:42:38
Local clock offset: -5.829 ms
Remote clock offset: -6.567 ms


# Below is generated by plot.py at 2018-04-17 08:26:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 1.620 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 94.14 Mbit/s
95th percentile per-packet one-way delay: 1.620 ms
Loss rate: 0.00%
```
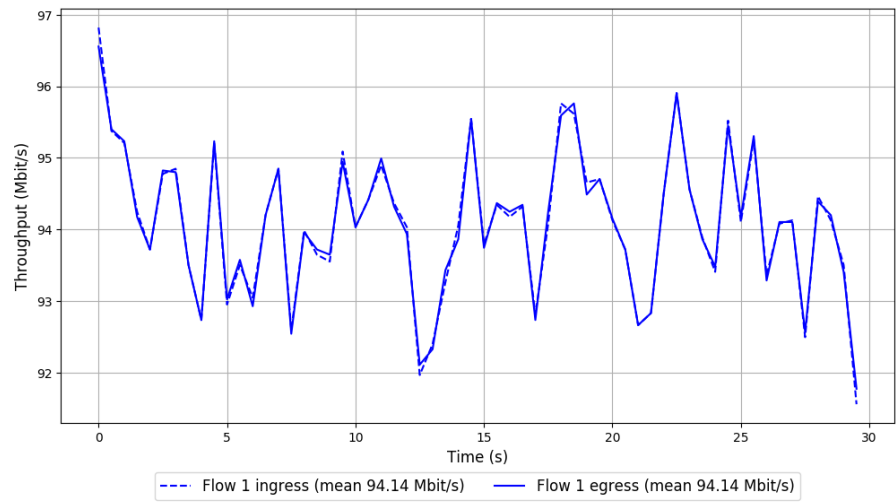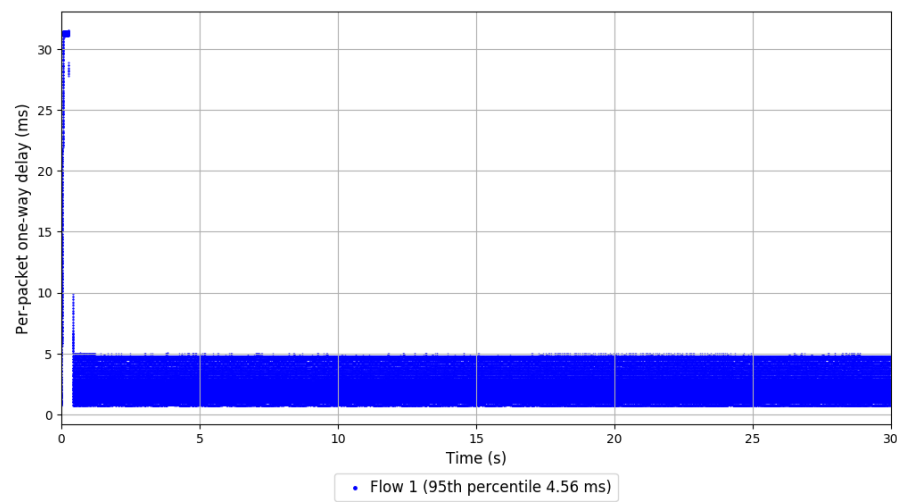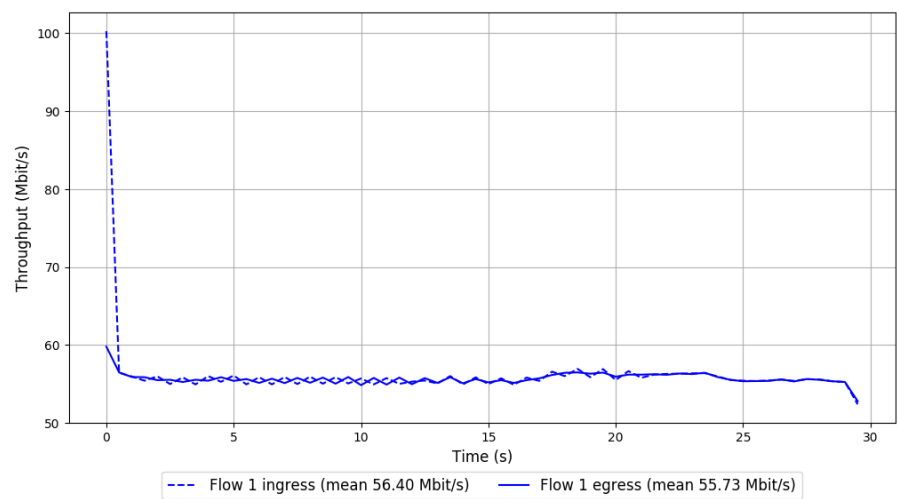
Run 10: Report of TCP Vegas — Data Link

```
Run 1: Statistics of Verus

Start at: 2018-04-17 04:49:46
End at: 2018-04-17 04:50:16
Local clock offset: -5.862 ms
Remote clock offset: -6.866 ms


# Below is generated by plot.py at 2018-04-17 08:26:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 4.563 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 4.563 ms
Loss rate: 1.18%
```

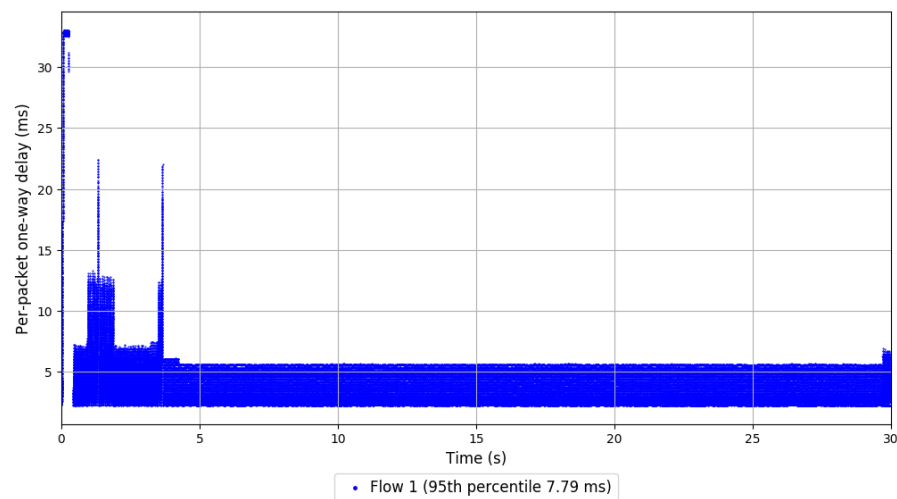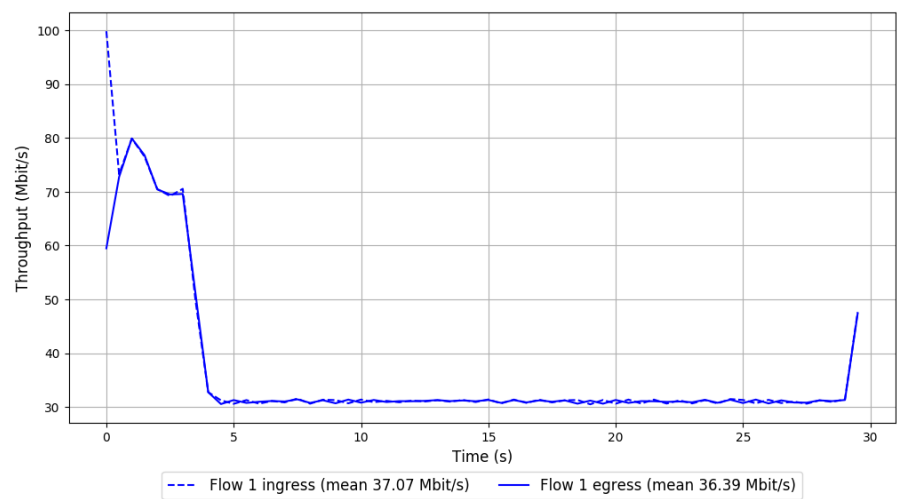Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2018-04-17 05:08:48
End at: 2018-04-17 05:09:18
Local clock offset: -6.081 ms
Remote clock offset: -6.758 ms


# Below is generated by plot.py at 2018-04-17 08:26:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 7.793 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 36.39 Mbit/s
95th percentile per-packet one-way delay: 7.793 ms
Loss rate: 1.81%
```

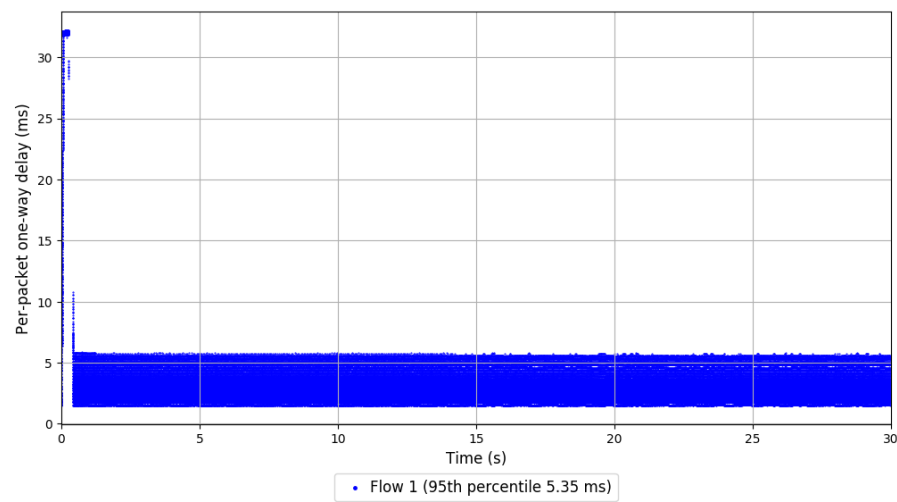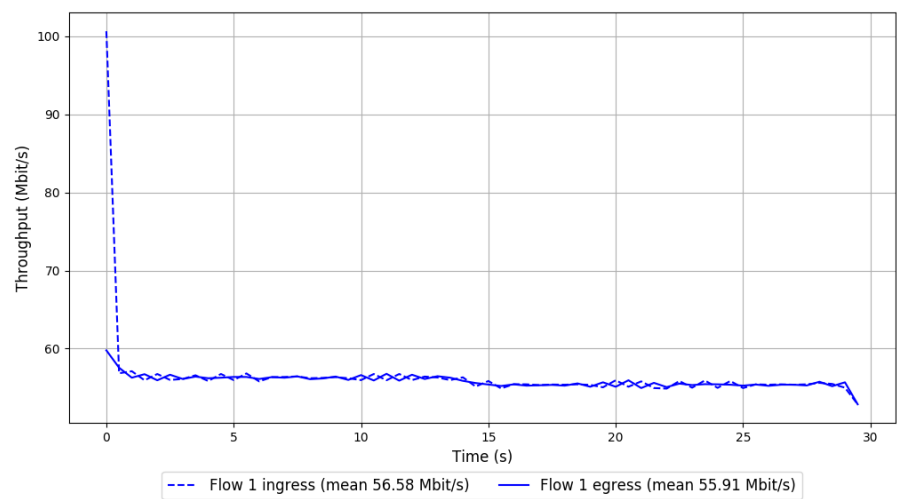Run 2: Report of Verus — Data Link

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```
Run 3: Statistics of Verus

Start at: 2018-04-17 05:27:51
End at: 2018-04-17 05:28:21
Local clock offset: -6.854 ms
Remote clock offset: -6.492 ms


# Below is generated by plot.py at 2018-04-17 08:26:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 5.348 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 55.91 Mbit/s
95th percentile per-packet one-way delay: 5.348 ms
Loss rate: 1.18%
```

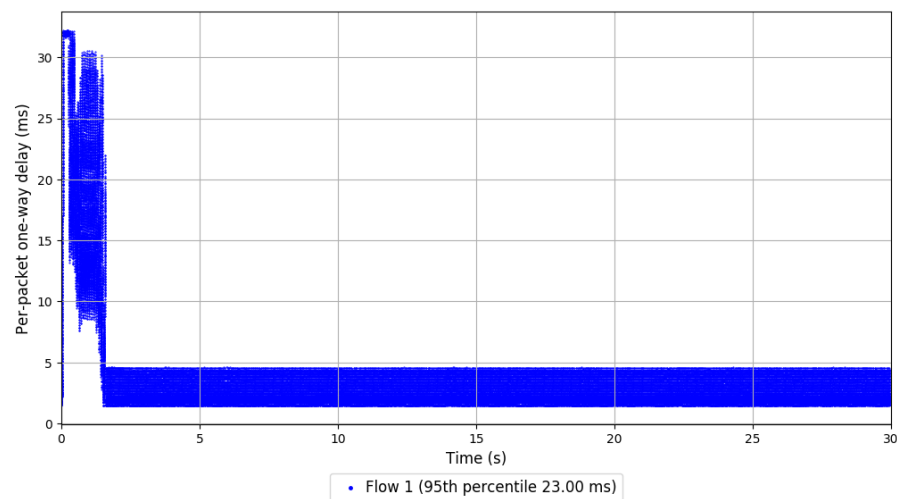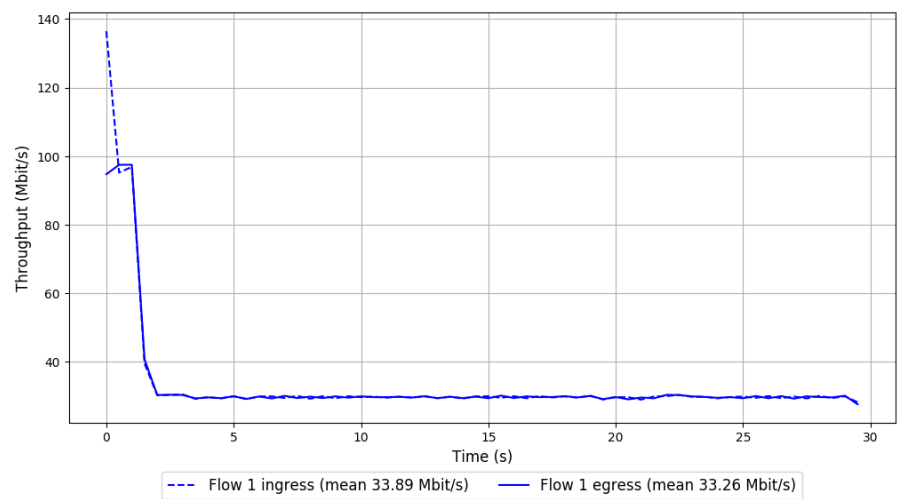Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-04-17 05:46:55
End at: 2018-04-17 05:47:25
Local clock offset: -5.284 ms
Remote clock offset: -6.659 ms


# Below is generated by plot.py at 2018-04-17 08:26:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.26 Mbit/s
95th percentile per-packet one-way delay: 22.997 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 33.26 Mbit/s
95th percentile per-packet one-way delay: 22.997 ms
Loss rate: 1.87%
```

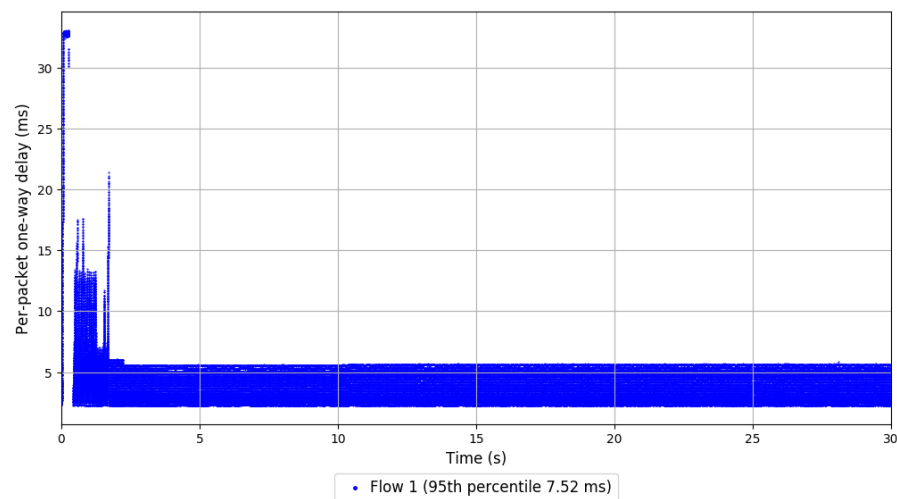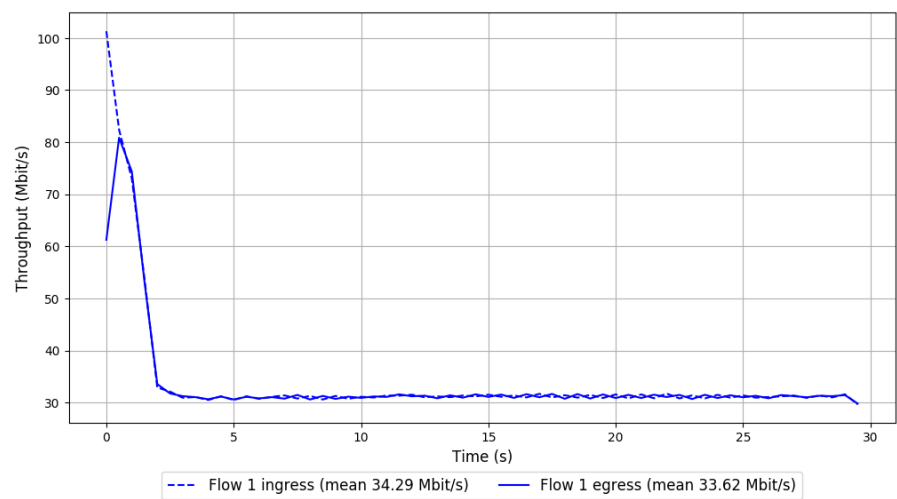## Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2018-04-17 06:05:55
End at: 2018-04-17 06:06:25
Local clock offset: -5.996 ms
Remote clock offset: -6.775 ms


# Below is generated by plot.py at 2018-04-17 08:26:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.62 Mbit/s
95th percentile per-packet one-way delay: 7.522 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 33.62 Mbit/s
95th percentile per-packet one-way delay: 7.522 ms
Loss rate: 1.95%
```

Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 34.29 Mbit/s)   Flow 1 egress (mean 33.62 Mbit/s)

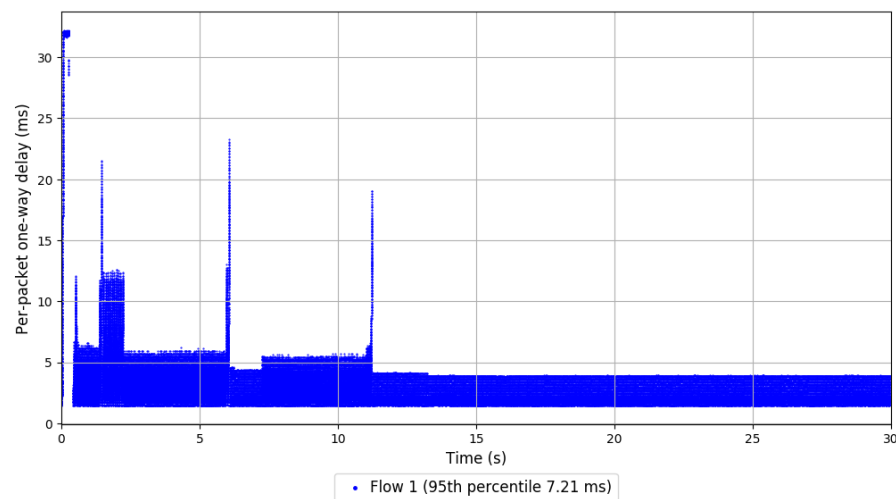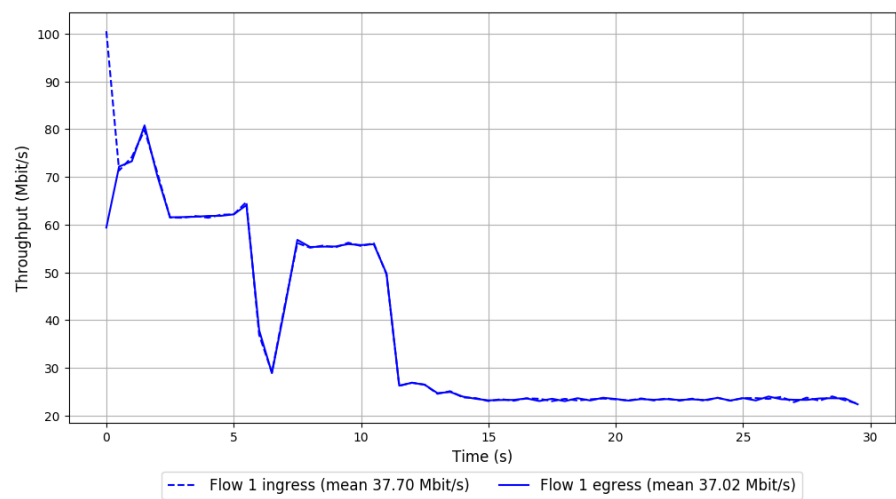Flow 1 (95th percentile 7.52 ms)

```
Run 6: Statistics of Verus

Start at: 2018-04-17 06:24:55
End at: 2018-04-17 06:25:25
Local clock offset: -5.209 ms
Remote clock offset: -7.094 ms


# Below is generated by plot.py at 2018-04-17 08:26:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 7.205 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 7.205 ms
Loss rate: 1.79%
```

Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 37.70 Mbit/s) --- Flow 1 egress (mean 37.02 Mbit/s)

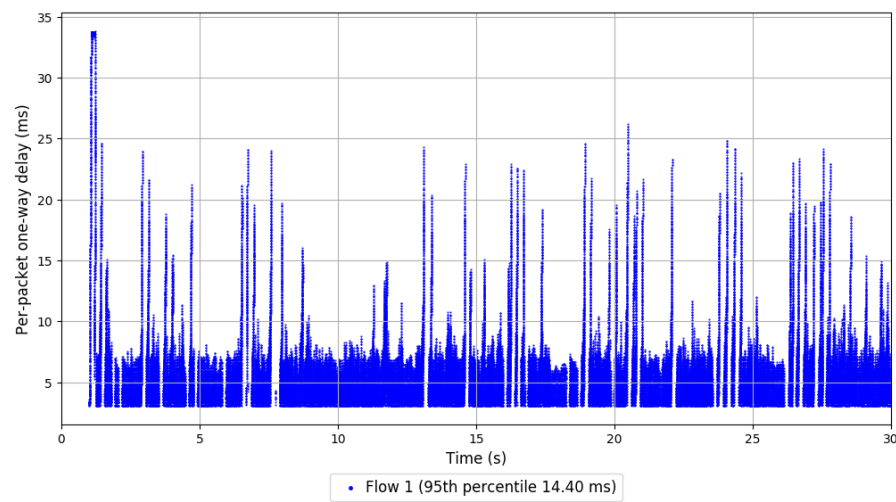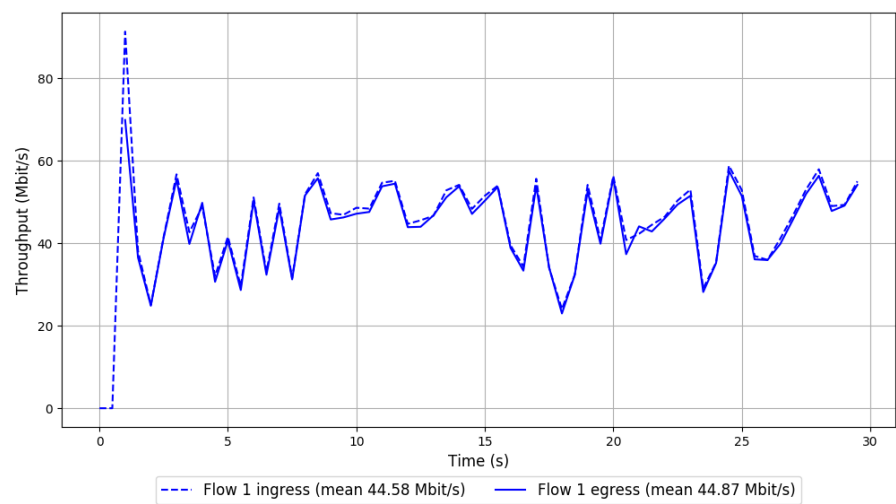Flow 1 (95th percentile 7.21 ms)

```
Run 7: Statistics of Verus

Start at: 2018-04-17 06:43:59
End at: 2018-04-17 06:44:29
Local clock offset: -6.771 ms
Remote clock offset: -7.215 ms


# Below is generated by plot.py at 2018-04-17 08:26:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 14.400 ms
Loss rate: 2.71%
-- Flow 1:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 14.400 ms
Loss rate: 2.71%
```

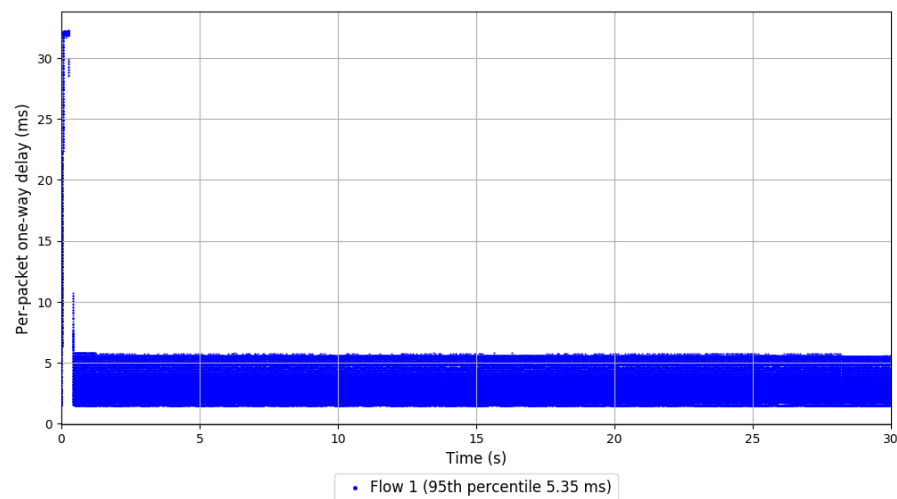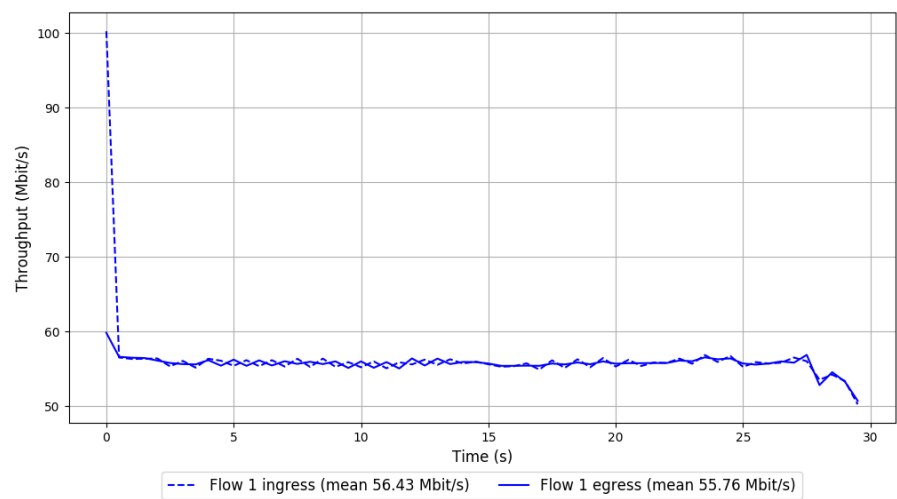Run 7: Report of Verus — Data Link

217

```
Run 8: Statistics of Verus

Start at: 2018-04-17 07:03:02
End at: 2018-04-17 07:03:32
Local clock offset: -6.726 ms
Remote clock offset: -6.682 ms


# Below is generated by plot.py at 2018-04-17 08:26:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.76 Mbit/s
95th percentile per-packet one-way delay: 5.347 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 55.76 Mbit/s
95th percentile per-packet one-way delay: 5.347 ms
Loss rate: 1.18%
```

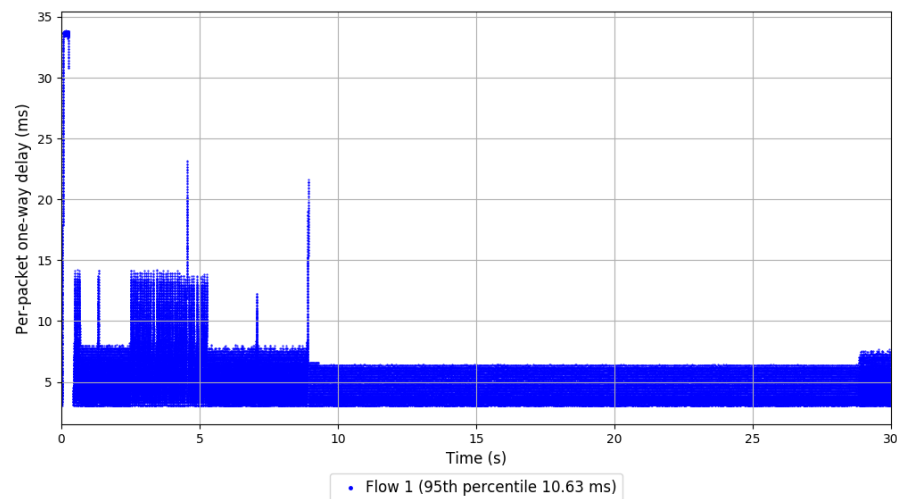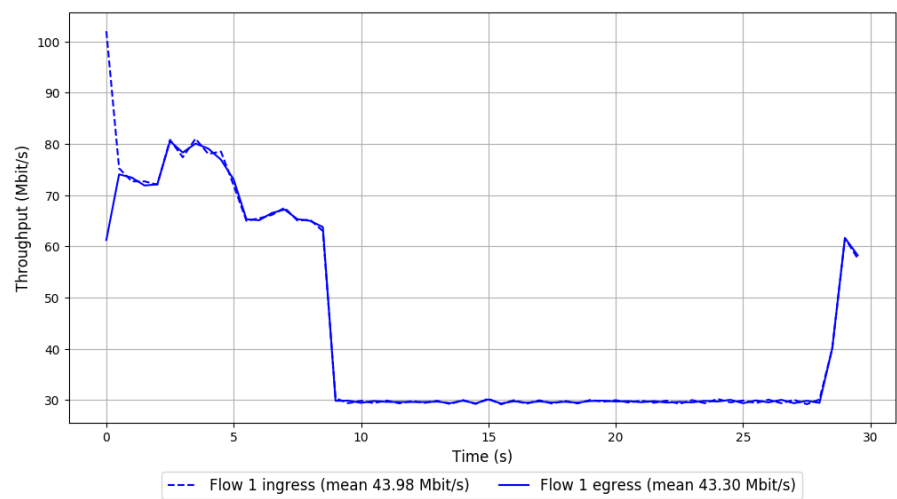Run 8: Report of Verus — Data Link

219

```
Run 9: Statistics of Verus

Start at: 2018-04-17 07:22:03
End at: 2018-04-17 07:22:33
Local clock offset: -6.687 ms
Remote clock offset: -6.518 ms


# Below is generated by plot.py at 2018-04-17 08:26:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.30 Mbit/s
95th percentile per-packet one-way delay: 10.631 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 43.30 Mbit/s
95th percentile per-packet one-way delay: 10.631 ms
Loss rate: 1.54%
```

Run 9: Report of Verus — Data Link

Flow 1 ingress (mean 43.98 Mbit/s) —— Flow 1 egress (mean 43.30 Mbit/s)

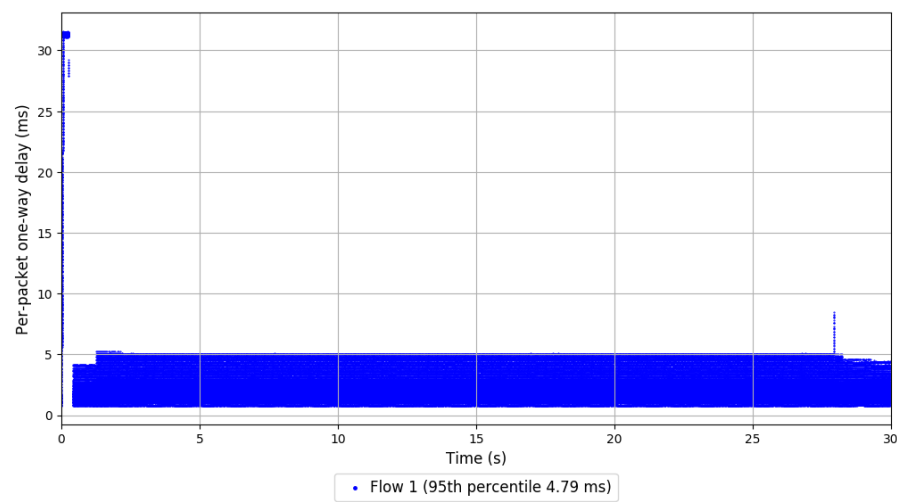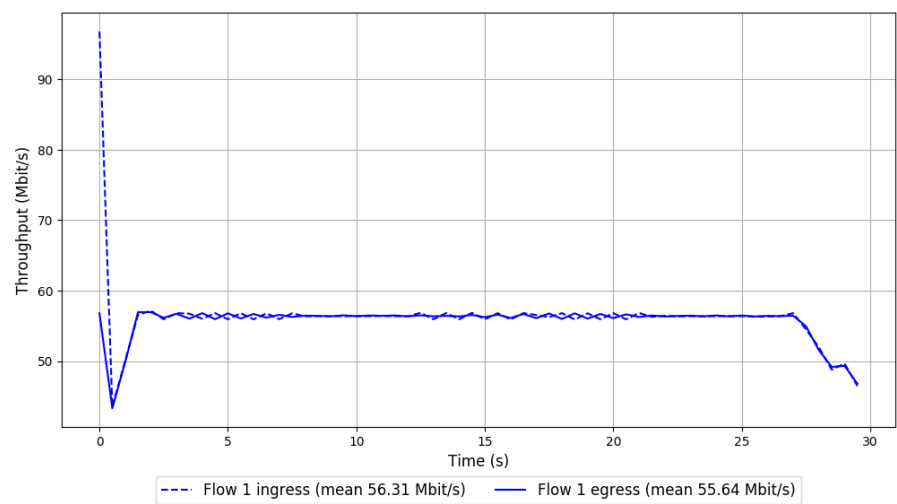• Flow 1 (95th percentile 10.63 ms)

221

```
Run 10: Statistics of Verus

Start at: 2018-04-17 07:41:01
End at: 2018-04-17 07:41:31
Local clock offset: -5.833 ms
Remote clock offset: -6.512 ms


# Below is generated by plot.py at 2018-04-17 08:27:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.64 Mbit/s
95th percentile per-packet one-way delay: 4.785 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 55.64 Mbit/s
95th percentile per-packet one-way delay: 4.785 ms
Loss rate: 1.18%
```

Run 10: Report of Verus — Data Link

```
Run 1: Statistics of Copa

Start at: 2018-04-17 04:35:13
End at: 2018-04-17 04:35:43
Local clock offset: -5.897 ms
Remote clock offset: -6.91 ms

# Below is generated by plot.py at 2018-04-17 08:28:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.04 Mbit/s
95th percentile per-packet one-way delay: 4.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.04 Mbit/s
95th percentile per-packet one-way delay: 4.626 ms
Loss rate: 0.00%
```
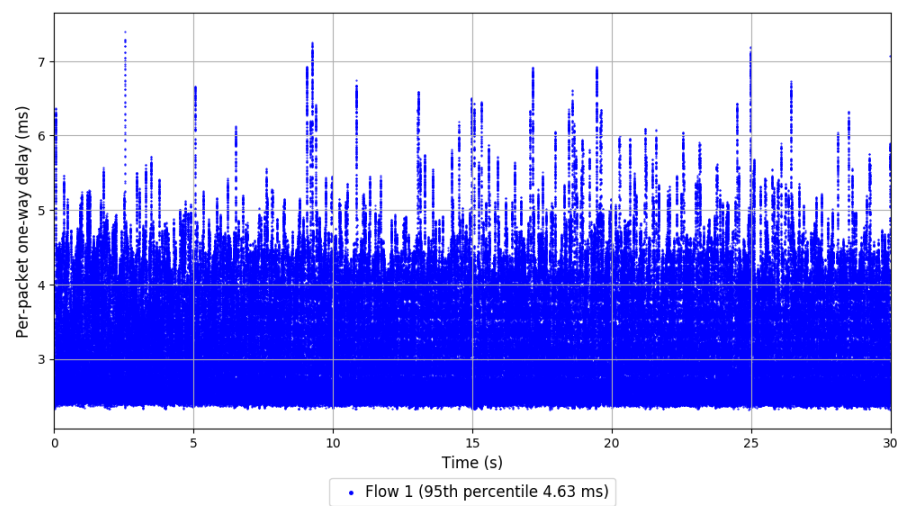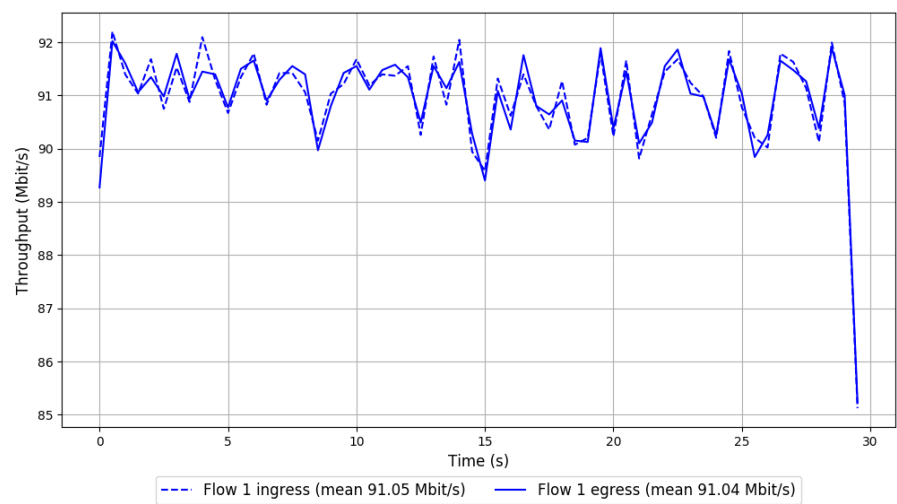
Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 91.05 Mbit/s) -----   Flow 1 egress (mean 91.04 Mbit/s) ———

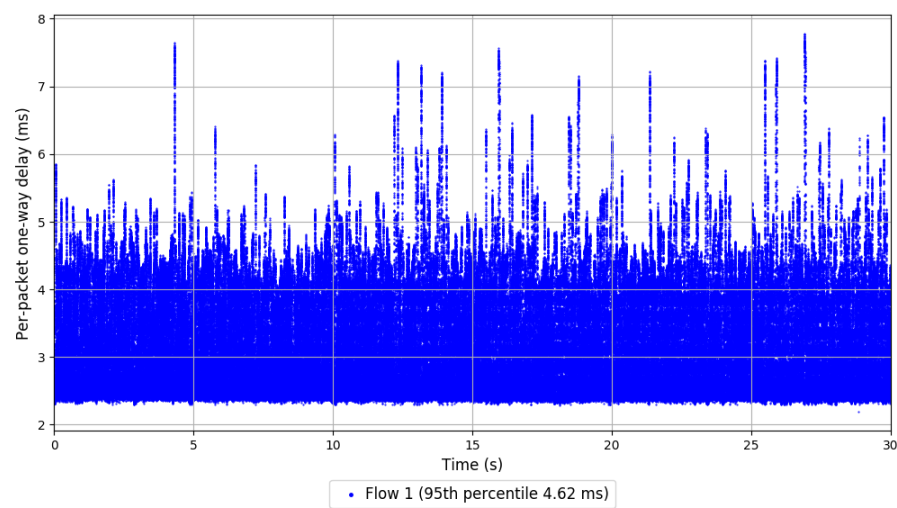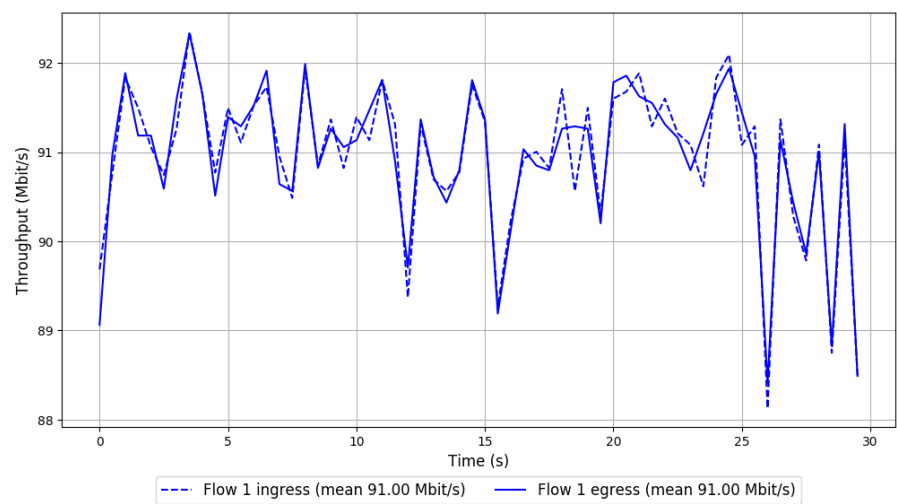• Flow 1 (95th percentile 4.63 ms)

```
Run 2: Statistics of Copa

Start at: 2018-04-17 04:54:13
End at: 2018-04-17 04:54:43
Local clock offset: -5.976 ms
Remote clock offset: -6.874 ms


# Below is generated by plot.py at 2018-04-17 08:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 4.625 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.00 Mbit/s
95th percentile per-packet one-way delay: 4.625 ms
Loss rate: 0.00%
```

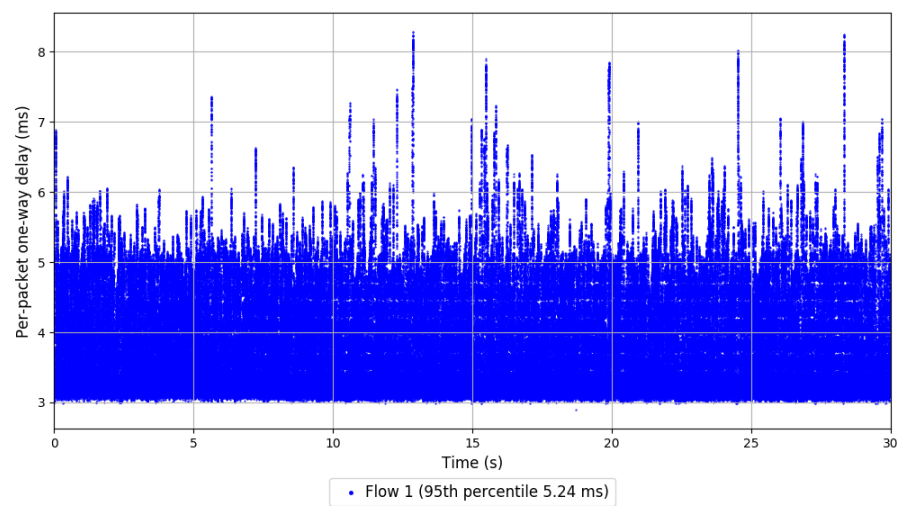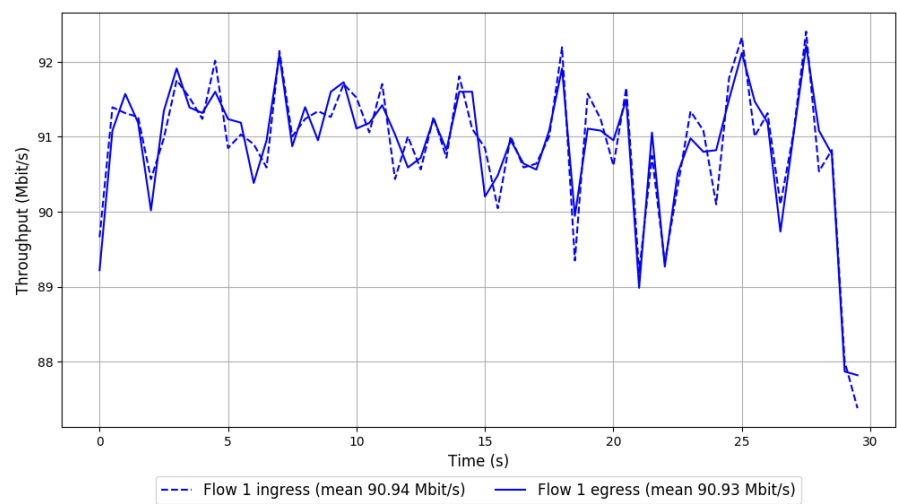Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2018-04-17 05:13:15
End at: 2018-04-17 05:13:45
Local clock offset: -6.843 ms
Remote clock offset: -6.667 ms


# Below is generated by plot.py at 2018-04-17 08:28:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 5.242 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.93 Mbit/s
95th percentile per-packet one-way delay: 5.242 ms
Loss rate: 0.01%
```

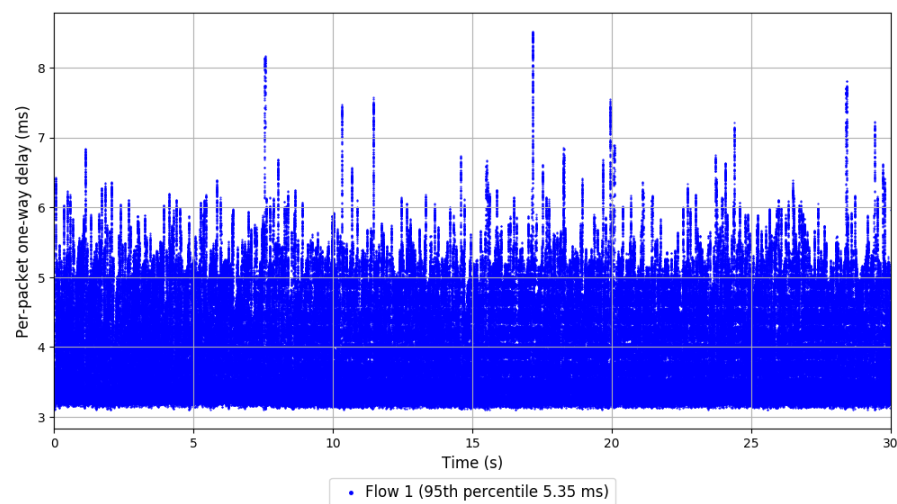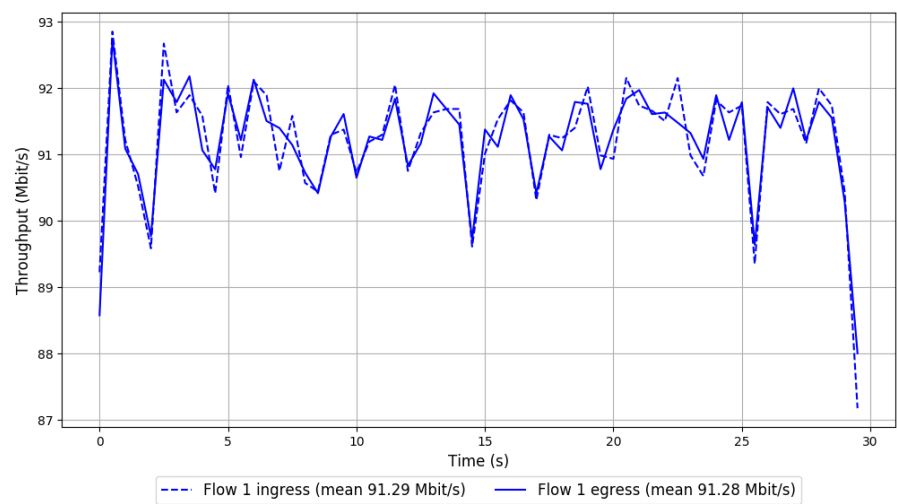Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2018-04-17 05:32:19
End at: 2018-04-17 05:32:49
Local clock offset: -6.88 ms
Remote clock offset: -6.439 ms


# Below is generated by plot.py at 2018-04-17 08:29:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 5.353 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 5.353 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 91.29 Mbit/s)   Flow 1 egress (mean 91.28 Mbit/s)

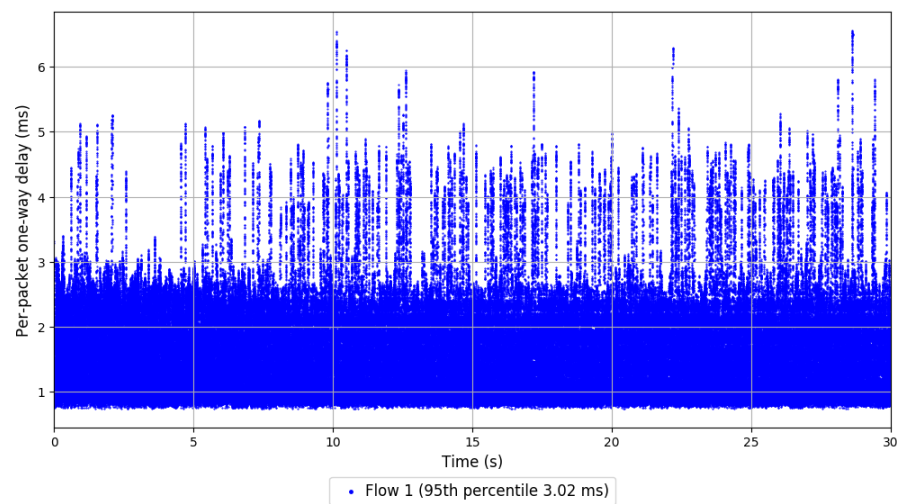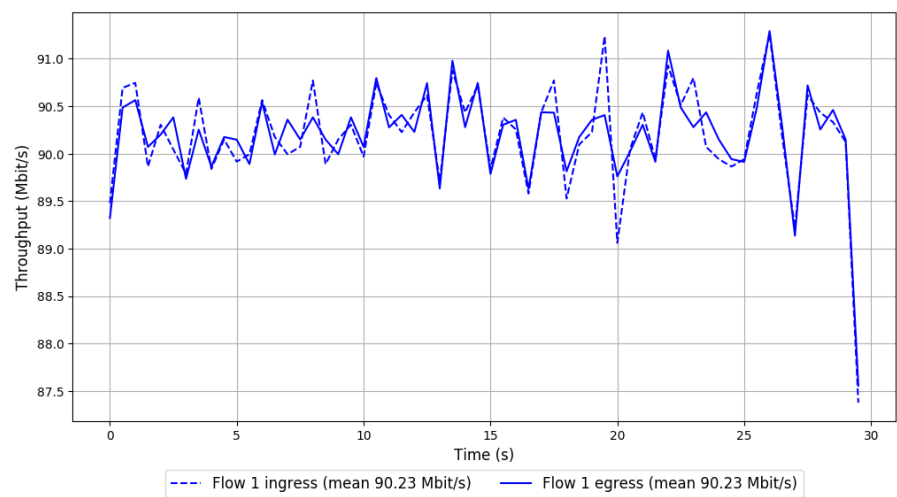• Flow 1 (95th percentile 5.35 ms)

```
Run 5: Statistics of Copa

Start at: 2018-04-17 05:51:21
End at: 2018-04-17 05:51:51
Local clock offset: -6.024 ms
Remote clock offset: -6.644 ms


# Below is generated by plot.py at 2018-04-17 08:29:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 3.015 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 3.015 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link

```
Run 6: Statistics of Copa

Start at: 2018-04-17 06:10:21
End at: 2018-04-17 06:10:51
Local clock offset: -5.228 ms
Remote clock offset: -6.87 ms


# Below is generated by plot.py at 2018-04-17 08:29:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 3.064 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.61 Mbit/s
95th percentile per-packet one-way delay: 3.064 ms
Loss rate: 0.00%
```
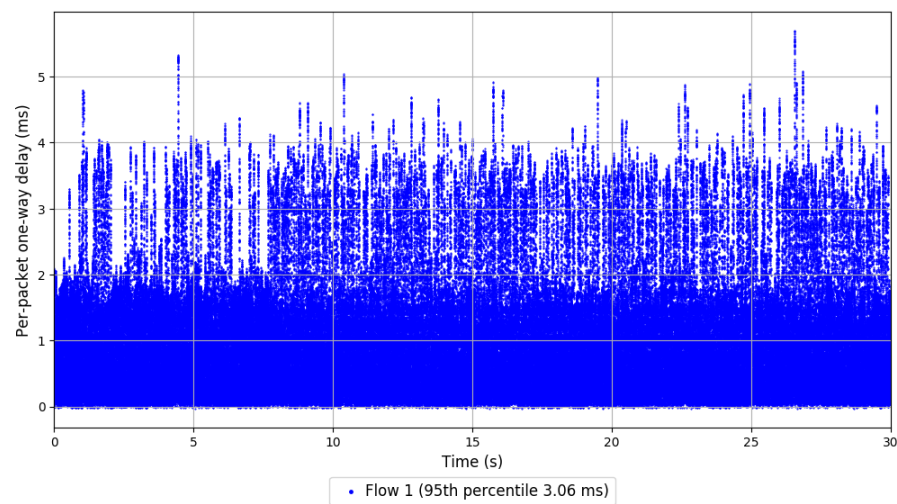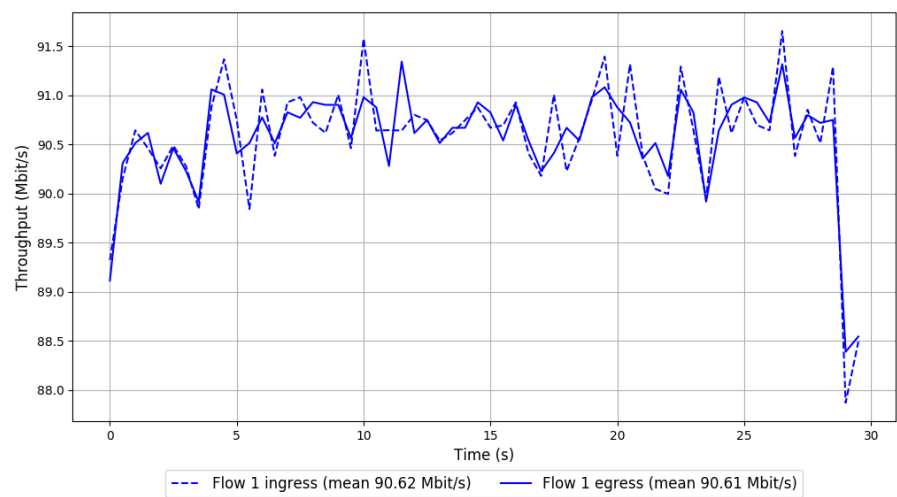
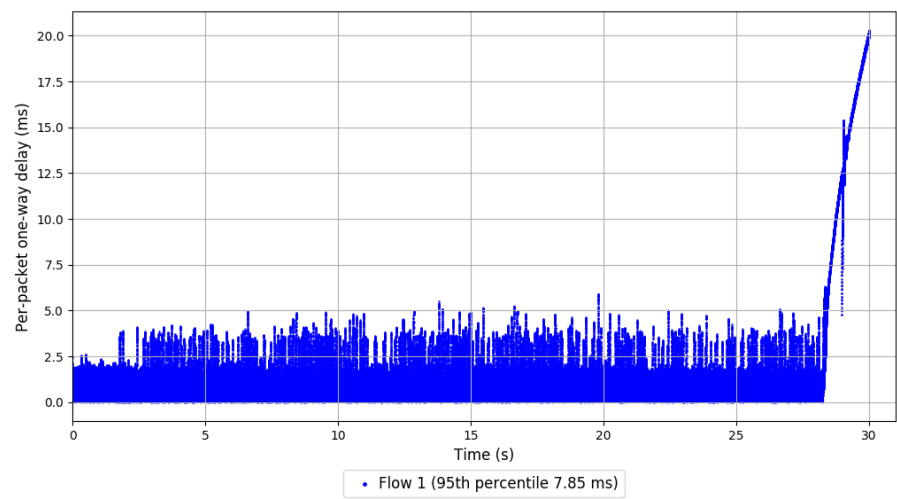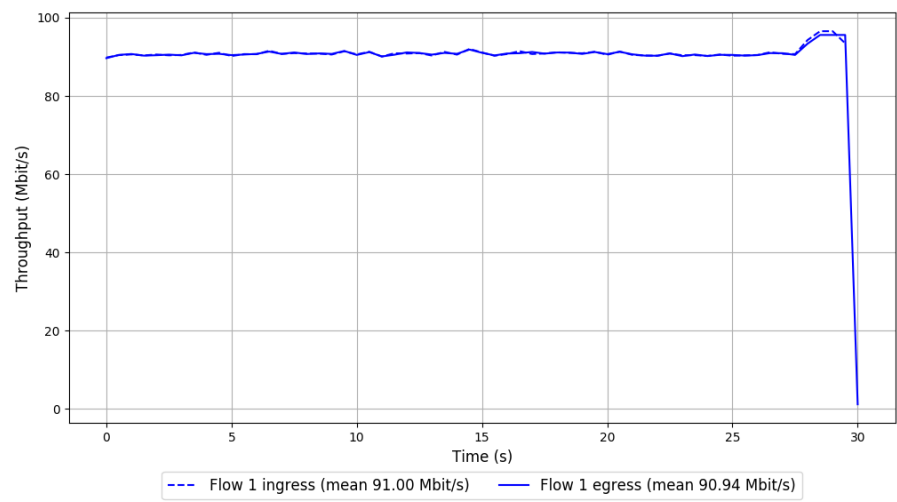Run 6: Report of Copa — Data Link

```
Run 7: Statistics of Copa

Start at: 2018-04-17 06:29:23
End at: 2018-04-17 06:29:53
Local clock offset: -5.211 ms
Remote clock offset: -7.085 ms


# Below is generated by plot.py at 2018-04-17 08:29:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 7.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 7.851 ms
Loss rate: 0.00%
```

Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 91.00 Mbit/s) --- Flow 1 egress (mean 90.94 Mbit/s)

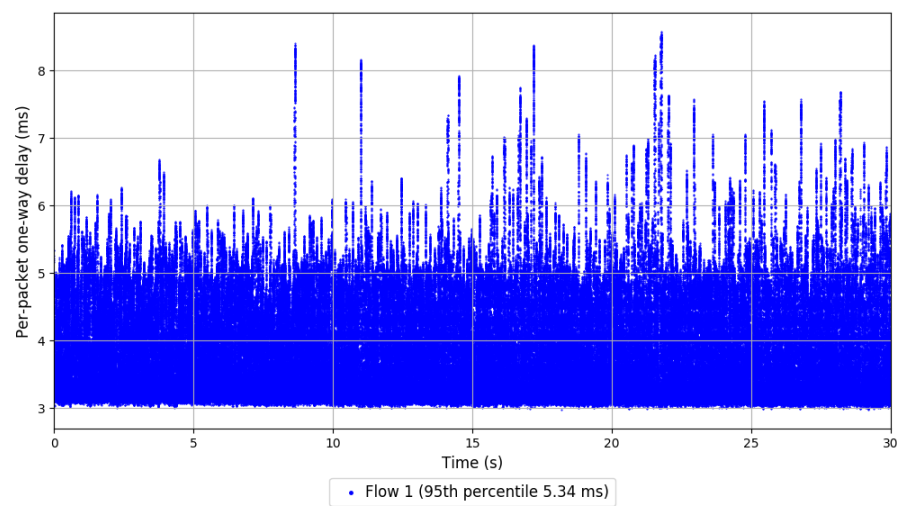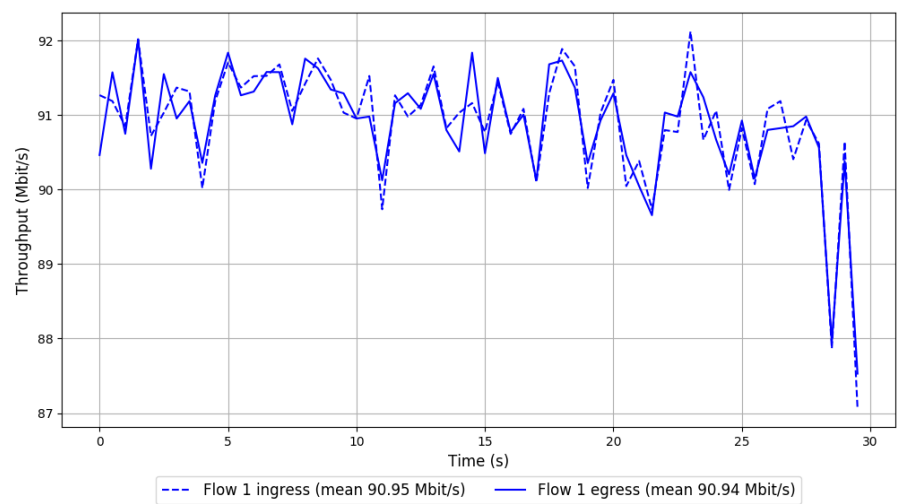• Flow 1 (95th percentile 7.85 ms)

```
Run 8: Statistics of Copa

Start at: 2018-04-17 06:48:25
End at: 2018-04-17 06:48:56
Local clock offset: -6.787 ms
Remote clock offset: -7.201 ms


# Below is generated by plot.py at 2018-04-17 08:29:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 5.336 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 90.94 Mbit/s
95th percentile per-packet one-way delay: 5.336 ms
Loss rate: 0.01%
```

Run 8: Report of Copa — Data Link

Flow 1 ingress (mean 90.95 Mbit/s) --- Flow 1 egress (mean 90.94 Mbit/s)

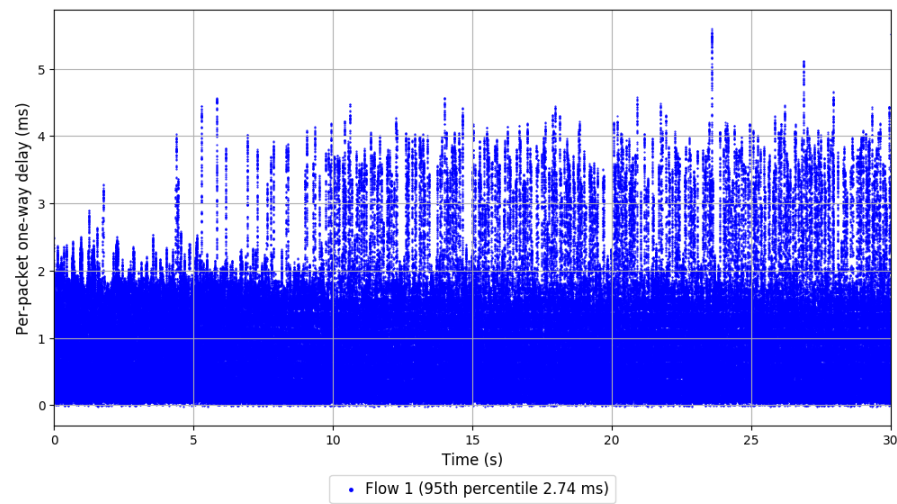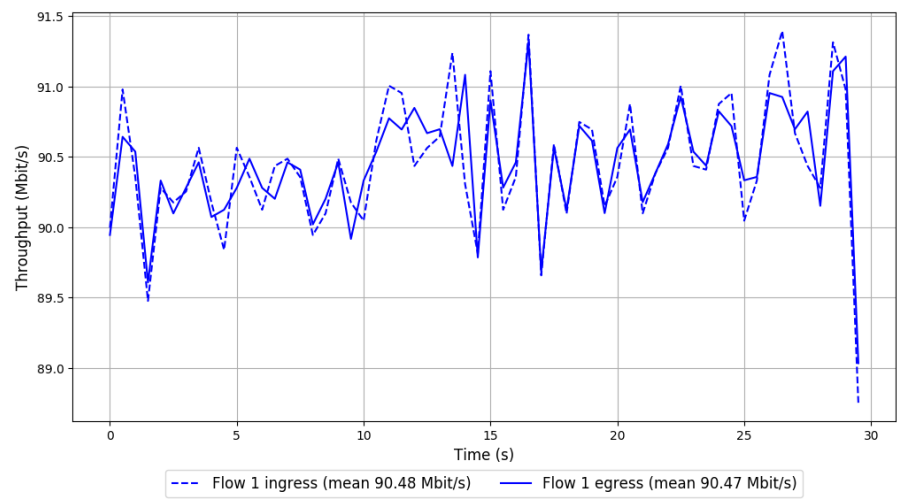• Flow 1 (95th percentile 5.34 ms)

```
Run 9: Statistics of Copa

Start at: 2018-04-17 07:07:29
End at: 2018-04-17 07:07:59
Local clock offset: -5.21 ms
Remote clock offset: -6.681 ms


# Below is generated by plot.py at 2018-04-17 08:31:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.47 Mbit/s
95th percentile per-packet one-way delay: 2.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.47 Mbit/s
95th percentile per-packet one-way delay: 2.739 ms
Loss rate: 0.00%
```

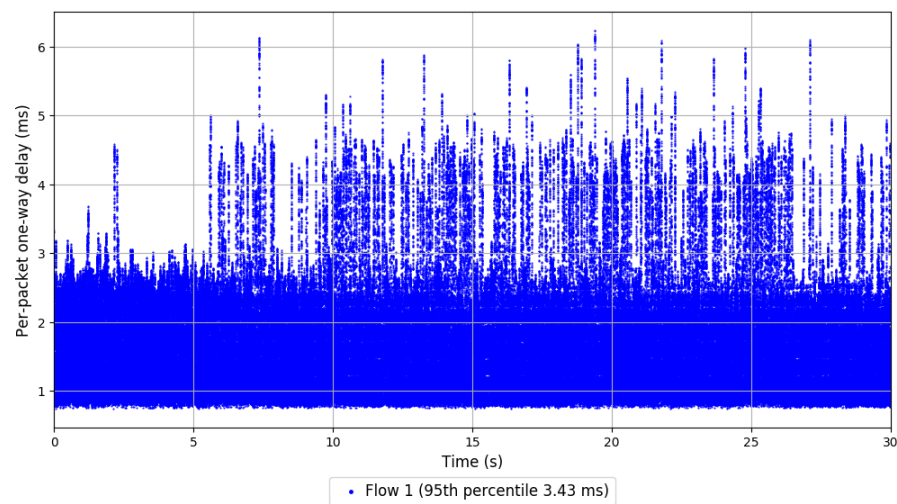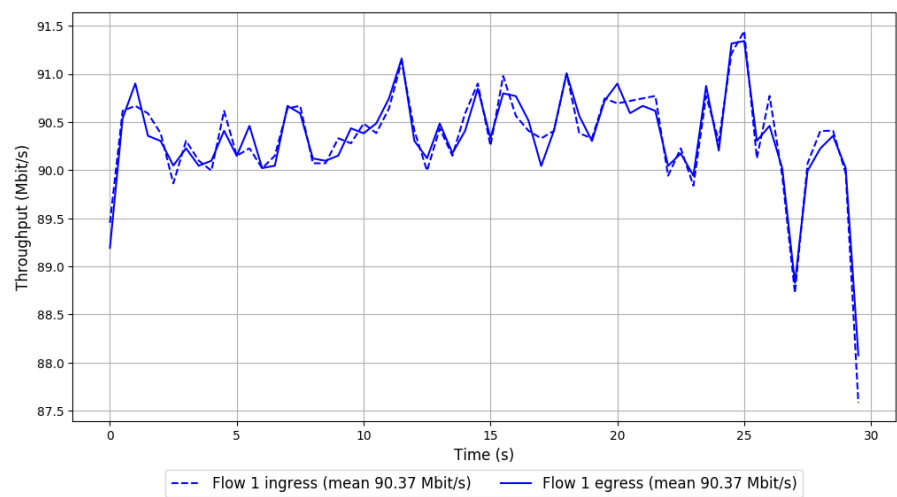Run 9: Report of Copa — Data Link

```
Run 10: Statistics of Copa

Start at: 2018-04-17 07:26:31
End at: 2018-04-17 07:27:01
Local clock offset: -5.886 ms
Remote clock offset: -6.525 ms


# Below is generated by plot.py at 2018-04-17 08:31:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.37 Mbit/s
95th percentile per-packet one-way delay: 3.433 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.37 Mbit/s
95th percentile per-packet one-way delay: 3.433 ms
Loss rate: 0.00%
```

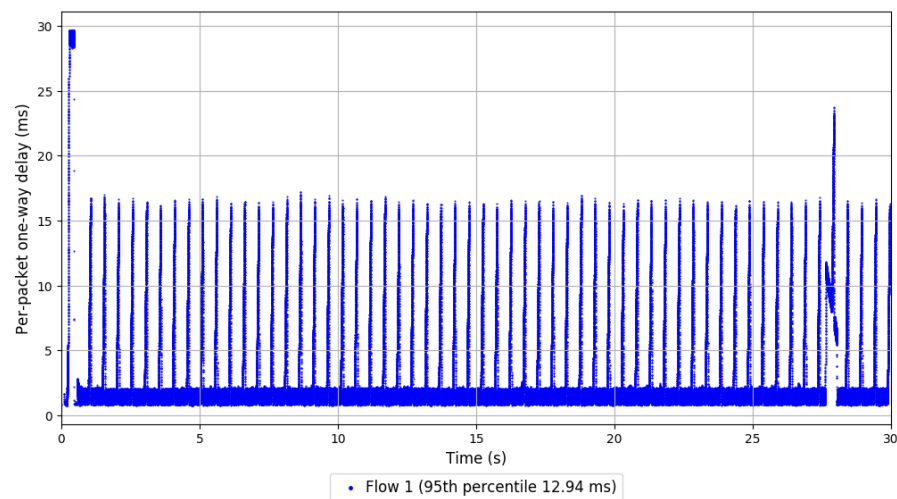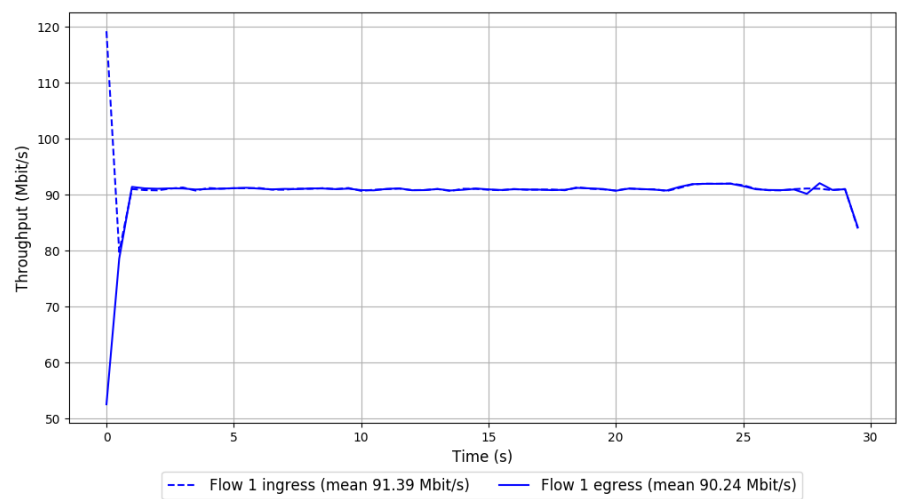Run 10: Report of Copa — Data Link

```
Run 1: Statistics of FillP

Start at: 2018-04-17 04:40:45
End at: 2018-04-17 04:41:15
Local clock offset: -5.841 ms
Remote clock offset: -6.887 ms


# Below is generated by plot.py at 2018-04-17 08:31:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 12.944 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 90.24 Mbit/s
95th percentile per-packet one-way delay: 12.944 ms
Loss rate: 1.22%
```

Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2018-04-17 04:59:47
End at: 2018-04-17 05:00:17
Local clock offset: -6.798 ms
Remote clock offset: -6.9 ms


# Below is generated by plot.py at 2018-04-17 08:31:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.66 Mbit/s
95th percentile per-packet one-way delay: 14.241 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 88.66 Mbit/s
95th percentile per-packet one-way delay: 14.241 ms
Loss rate: 2.96%
```
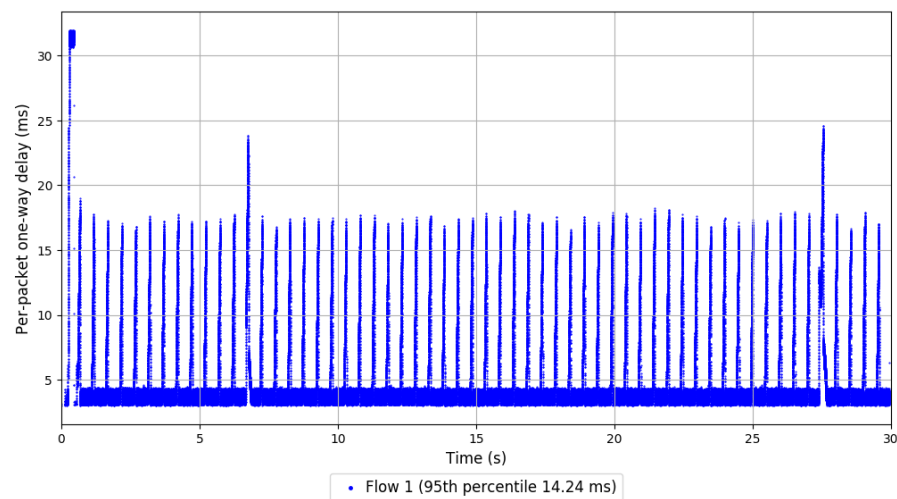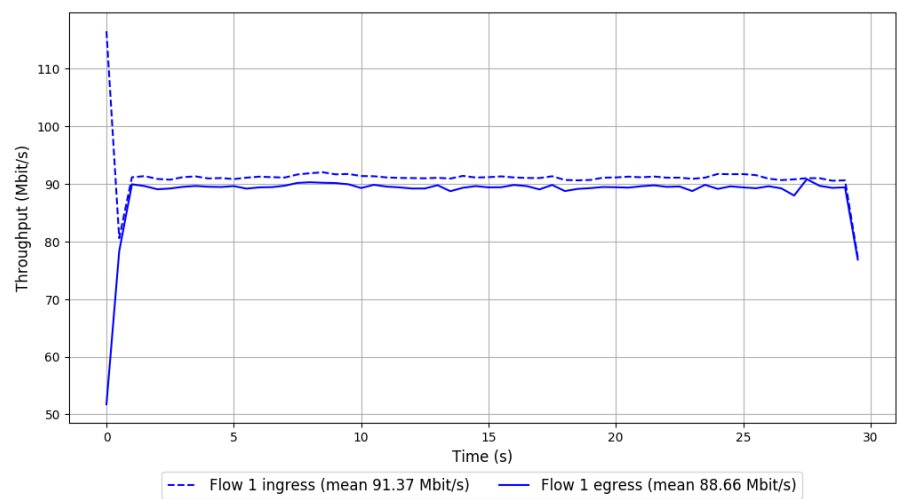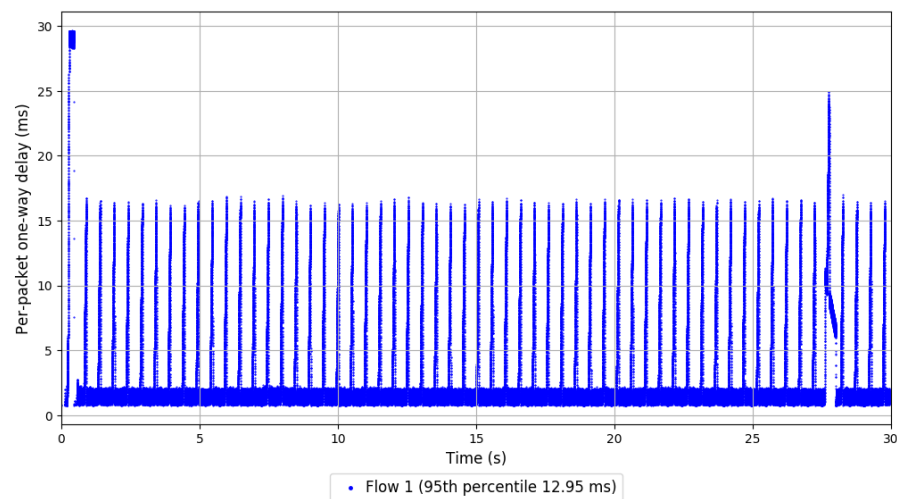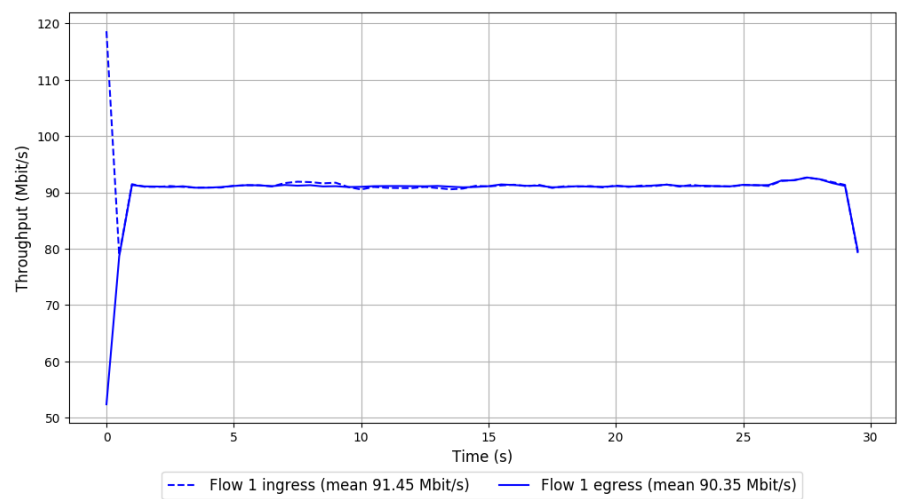
Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2018-04-17 05:18:50
End at: 2018-04-17 05:19:20
Local clock offset: -6.104 ms
Remote clock offset: -6.595 ms


# Below is generated by plot.py at 2018-04-17 08:31:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.35 Mbit/s
95th percentile per-packet one-way delay: 12.950 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 90.35 Mbit/s
95th percentile per-packet one-way delay: 12.950 ms
Loss rate: 1.21%
```

Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 91.45 Mbit/s)   Flow 1 egress (mean 90.35 Mbit/s)
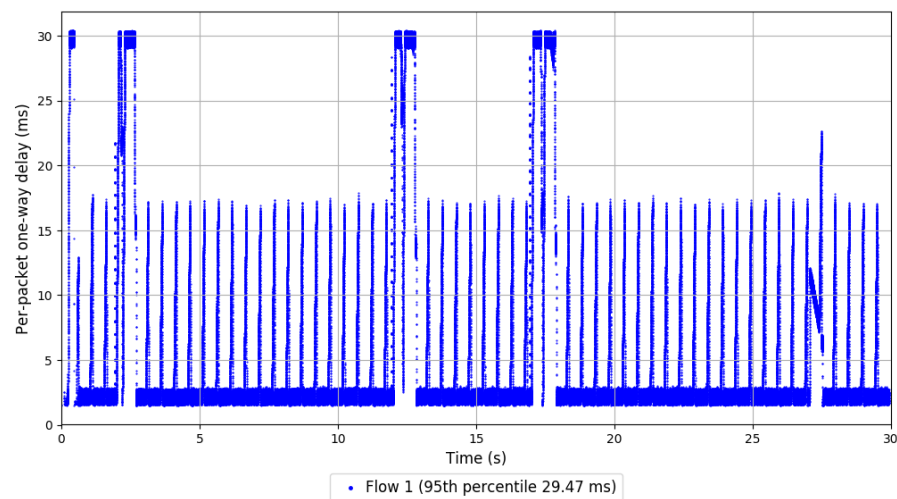
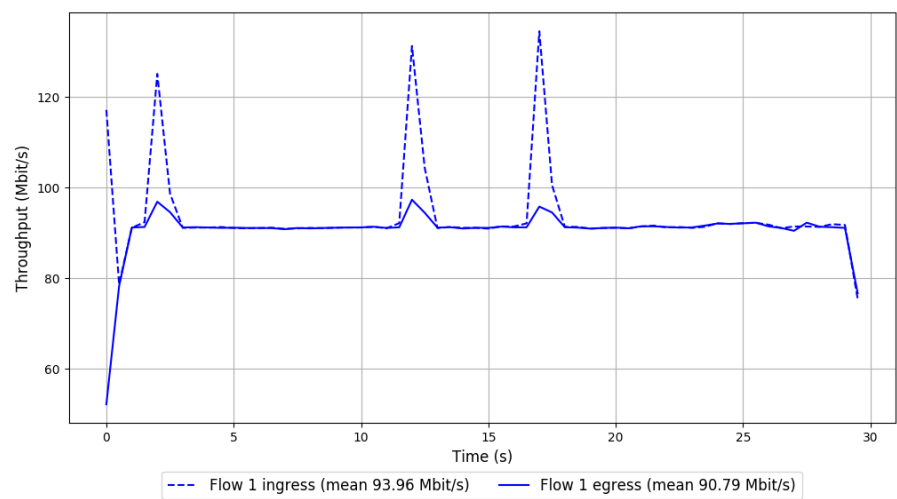

• Flow 1 (95th percentile 12.95 ms)

```
Run 4: Statistics of FillP

Start at: 2018-04-17 05:37:55
End at: 2018-04-17 05:38:25
Local clock offset: -5.298 ms
Remote clock offset: -6.457 ms


# Below is generated by plot.py at 2018-04-17 08:31:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.79 Mbit/s
95th percentile per-packet one-way delay: 29.471 ms
Loss rate: 3.38%
-- Flow 1:
Average throughput: 90.79 Mbit/s
95th percentile per-packet one-way delay: 29.471 ms
Loss rate: 3.38%
```

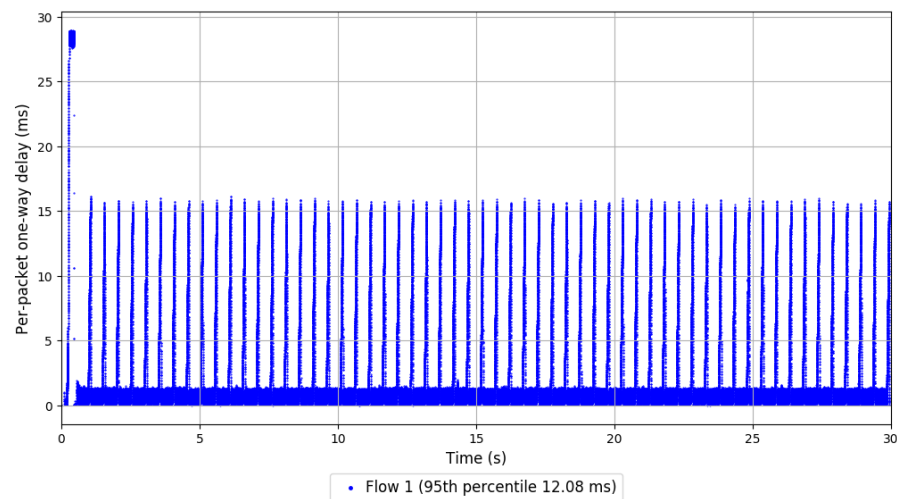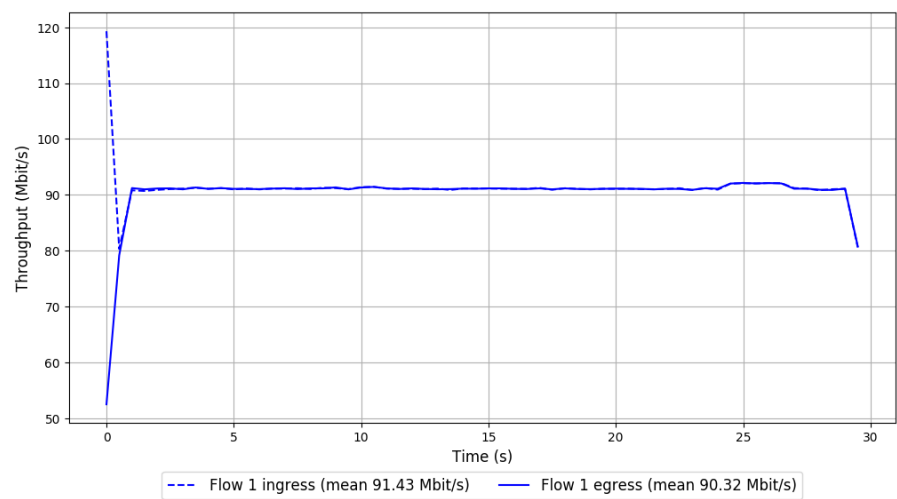Run 4: Report of FillP — Data Link

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```
Run 5: Statistics of FillP

Start at: 2018-04-17 05:56:56
End at: 2018-04-17 05:57:26
Local clock offset: -5.295 ms
Remote clock offset: -6.717 ms


# Below is generated by plot.py at 2018-04-17 08:31:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 12.081 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 12.081 ms
Loss rate: 1.22%
```

Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 91.43 Mbit/s)   Flow 1 egress (mean 90.32 Mbit/s)
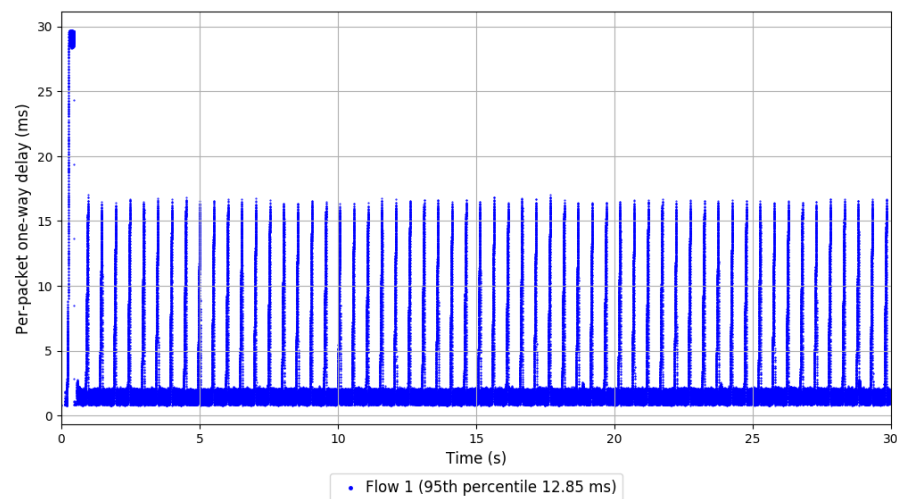
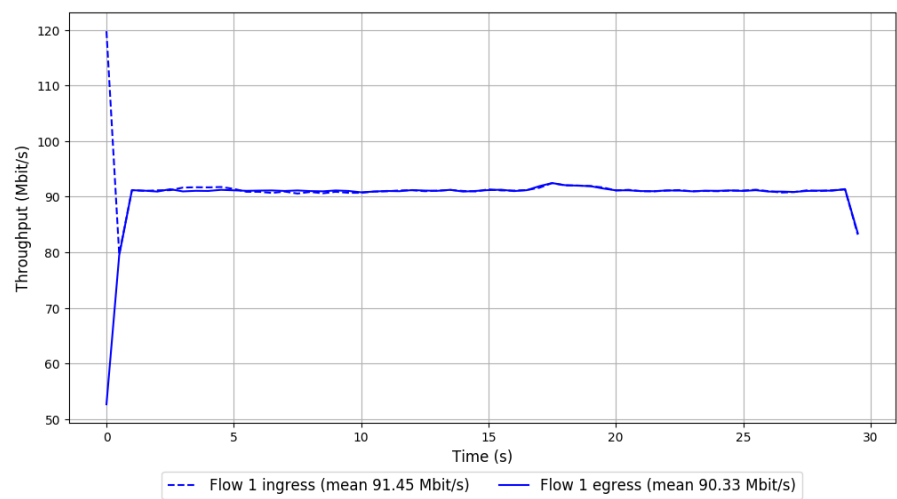

• Flow 1 (95th percentile 12.08 ms)

```
Run 6: Statistics of FillP

Start at: 2018-04-17 06:15:57
End at: 2018-04-17 06:16:27
Local clock offset: -5.925 ms
Remote clock offset: -6.874 ms


# Below is generated by plot.py at 2018-04-17 08:31:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 12.847 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 12.847 ms
Loss rate: 1.22%
```
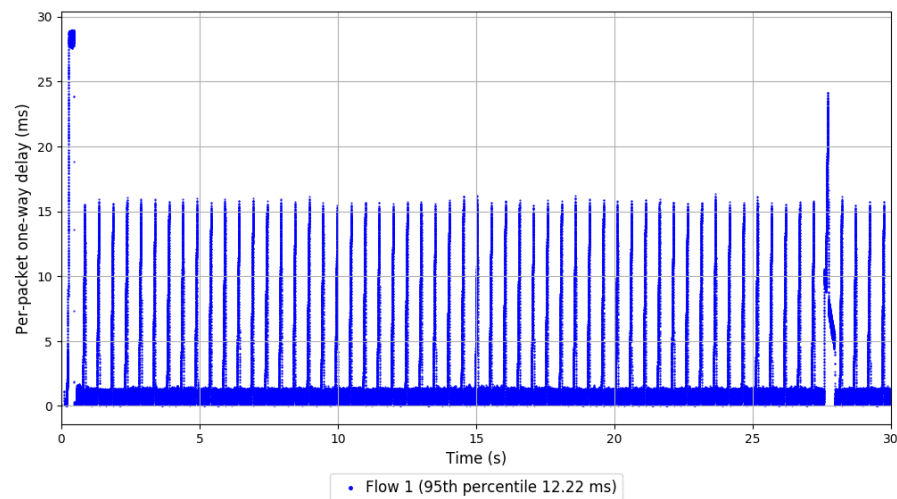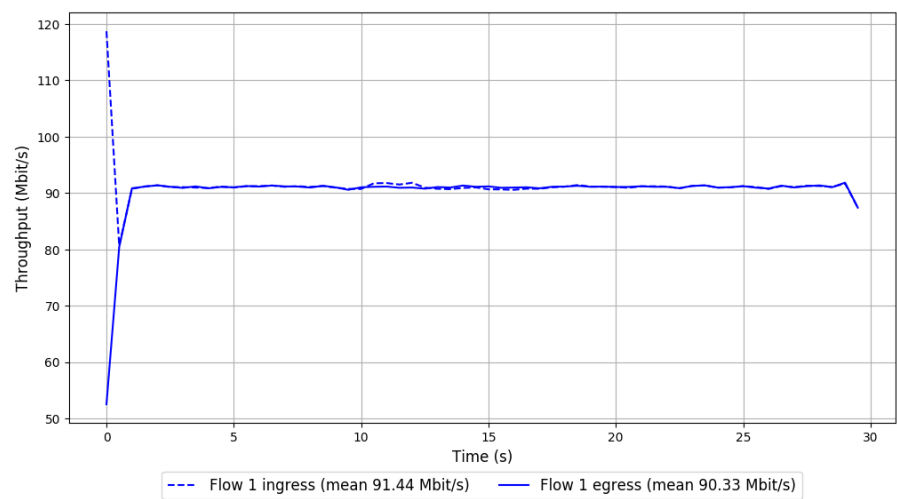
Run 6: Report of FillP — Data Link

```
Run 7: Statistics of FillP

Start at: 2018-04-17 06:34:58
End at: 2018-04-17 06:35:28
Local clock offset: -5.21 ms
Remote clock offset: -7.129 ms


# Below is generated by plot.py at 2018-04-17 08:31:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 12.219 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 12.219 ms
Loss rate: 1.21%
```

Run 7: Report of FillP — Data Link

Flow 1 ingress (mean 91.44 Mbit/s) ---- Flow 1 egress (mean 90.33 Mbit/s)
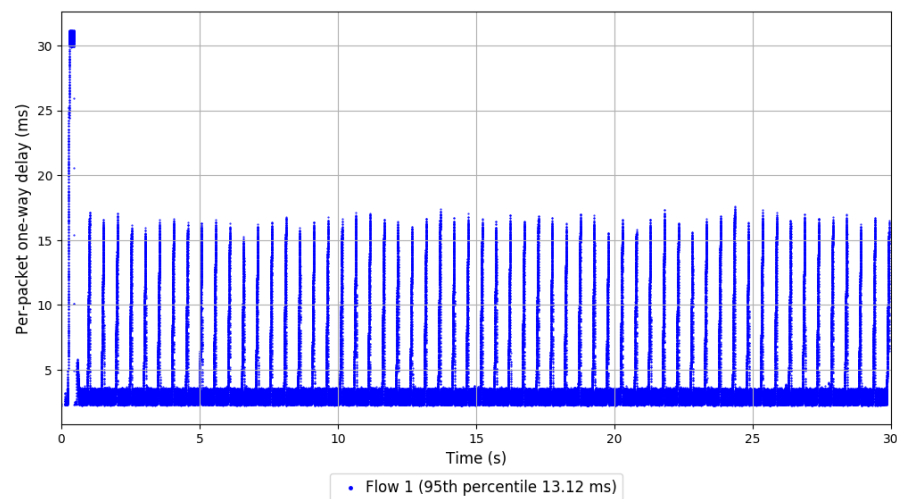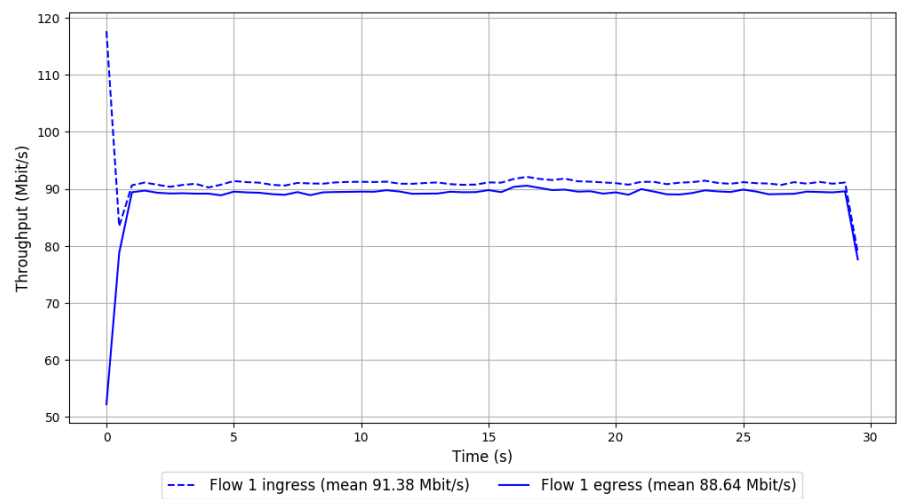

Flow 1 (95th percentile 12.22 ms)

```
Run 8: Statistics of FillP

Start at: 2018-04-17 06:54:00
End at: 2018-04-17 06:54:30
Local clock offset: -5.98 ms
Remote clock offset: -6.875 ms


# Below is generated by plot.py at 2018-04-17 08:31:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.64 Mbit/s
95th percentile per-packet one-way delay: 13.121 ms
Loss rate: 3.00%
-- Flow 1:
Average throughput: 88.64 Mbit/s
95th percentile per-packet one-way delay: 13.121 ms
Loss rate: 3.00%
```
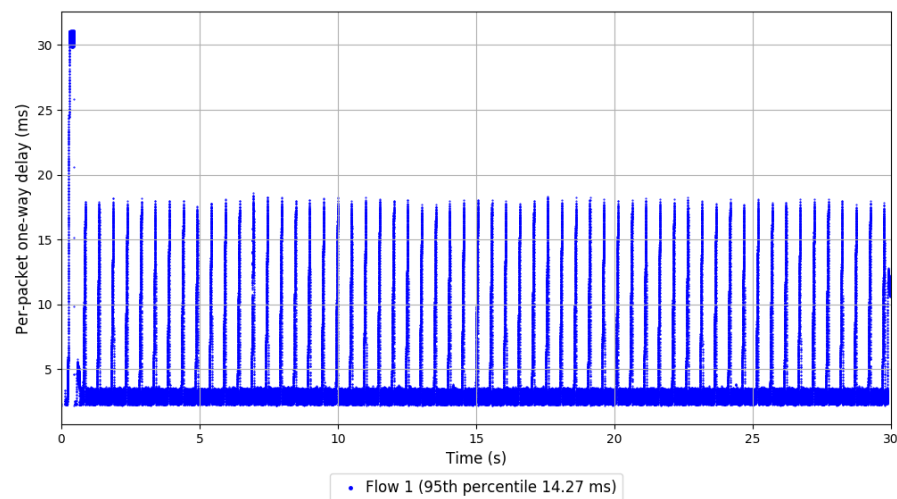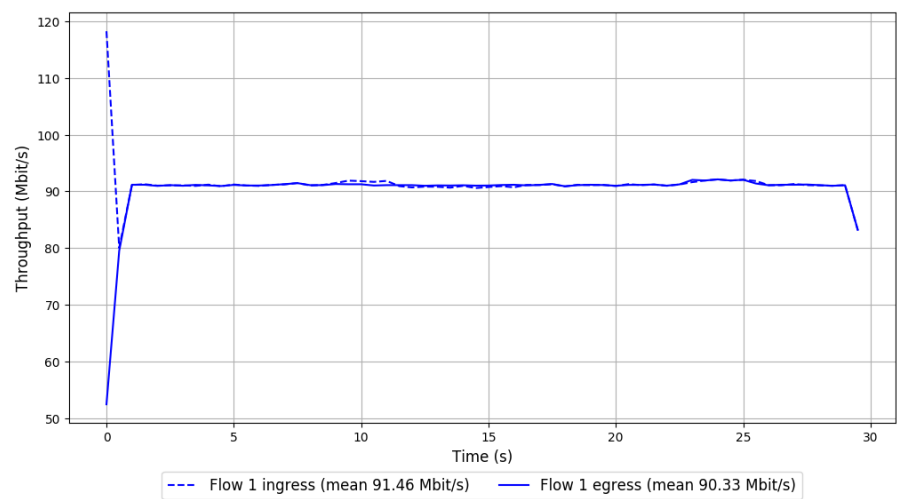
Run 8: Report of FillP — Data Link

```
Run 9: Statistics of FillP

Start at: 2018-04-17 07:13:04
End at: 2018-04-17 07:13:34
Local clock offset: -5.889 ms
Remote clock offset: -6.581 ms


# Below is generated by plot.py at 2018-04-17 08:32:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 14.266 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 90.33 Mbit/s
95th percentile per-packet one-way delay: 14.266 ms
Loss rate: 1.21%
```

Run 9: Report of FillP — Data Link

Flow 1 ingress (mean 91.46 Mbit/s)   Flow 1 egress (mean 90.33 Mbit/s)
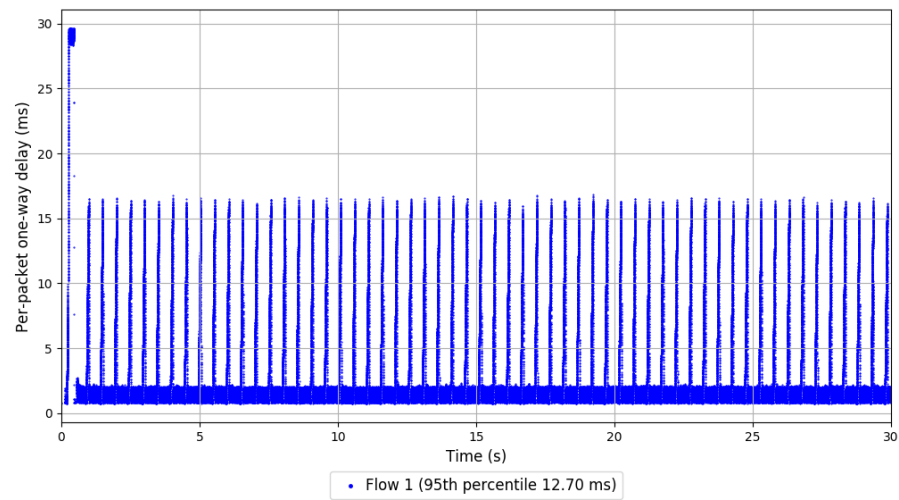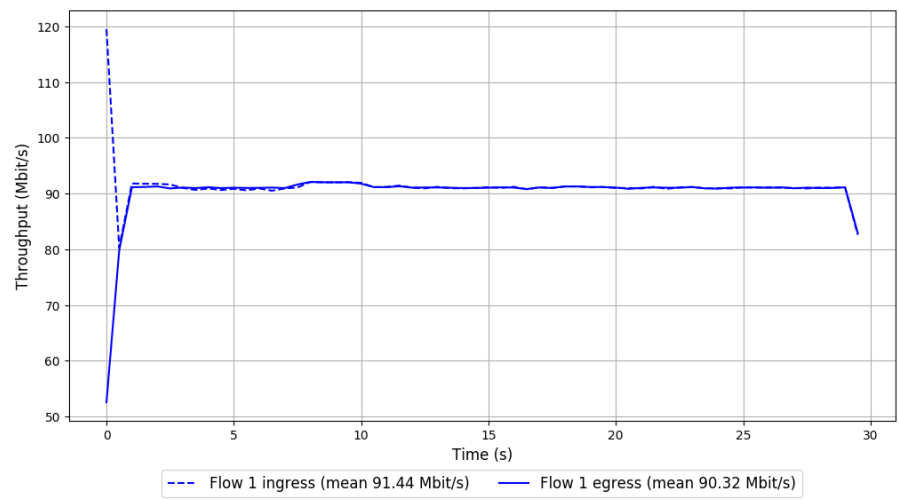

Flow 1 (95th percentile 14.27 ms)

```
Run 10: Statistics of FillP

Start at: 2018-04-17 07:32:06
End at: 2018-04-17 07:32:36
Local clock offset: -5.877 ms
Remote clock offset: -6.526 ms


# Below is generated by plot.py at 2018-04-17 08:32:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 12.704 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 90.32 Mbit/s
95th percentile per-packet one-way delay: 12.704 ms
Loss rate: 1.22%
```
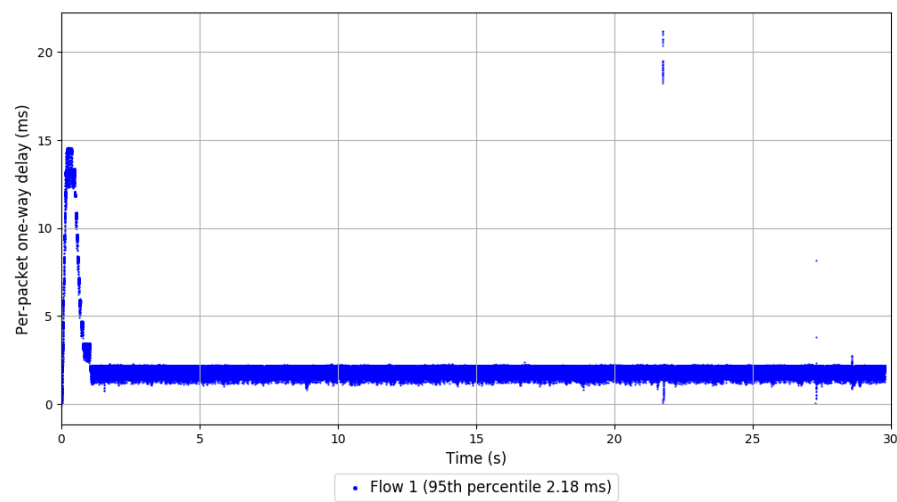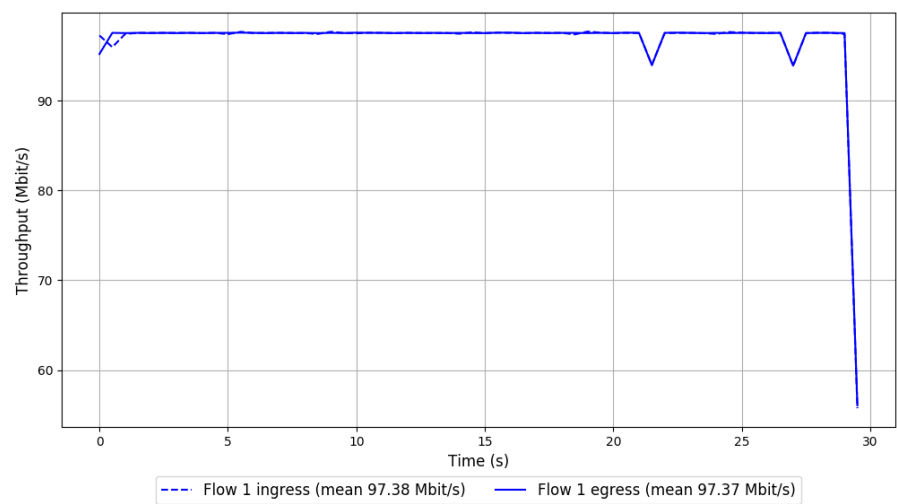
Run 10: Report of FillP — Data Link

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

Start at: 2018-04-17 04:48:37
End at: 2018-04-17 04:49:07
Local clock offset: -5.134 ms
Remote clock offset: -6.858 ms


# Below is generated by plot.py at 2018-04-17 08:32:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 2.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.37 Mbit/s
95th percentile per-packet one-way delay: 2.180 ms
Loss rate: 0.00%
```

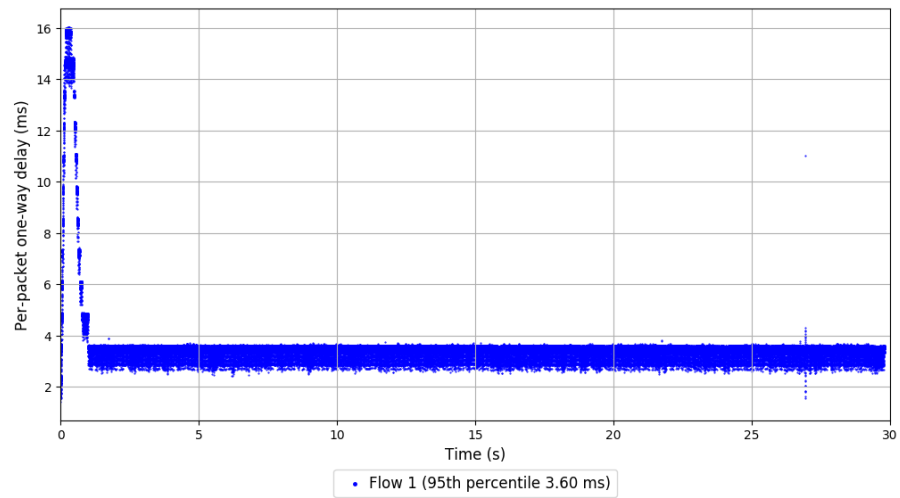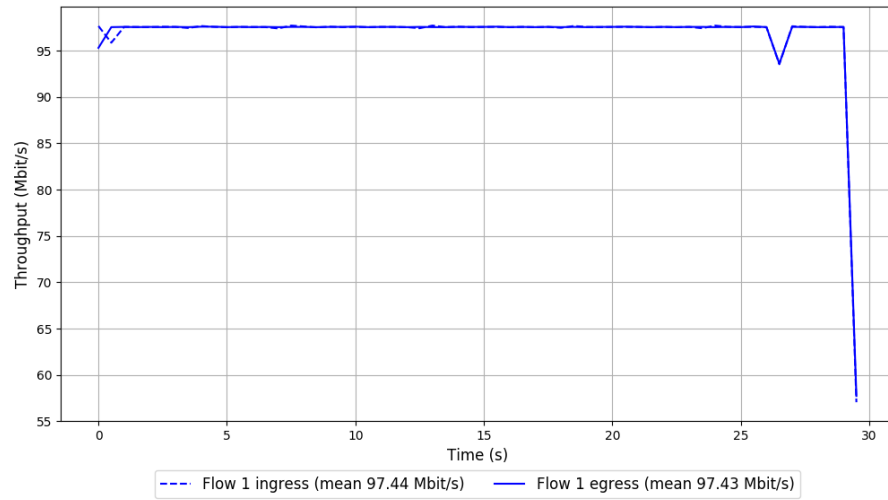Run 1: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-17 05:07:39
End at: 2018-04-17 05:08:09
Local clock offset: -6.798 ms
Remote clock offset: -6.799 ms

# Below is generated by plot.py at 2018-04-17 08:32:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 3.603 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 3.603 ms
Loss rate: 0.00%
```

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

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

Start at: 2018-04-17 05:26:42
End at: 2018-04-17 05:27:12
Local clock offset: -6.956 ms
Remote clock offset: -6.509 ms


# Below is generated by plot.py at 2018-04-17 08:32:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 3.753 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 3.753 ms
Loss rate: 0.00%
```
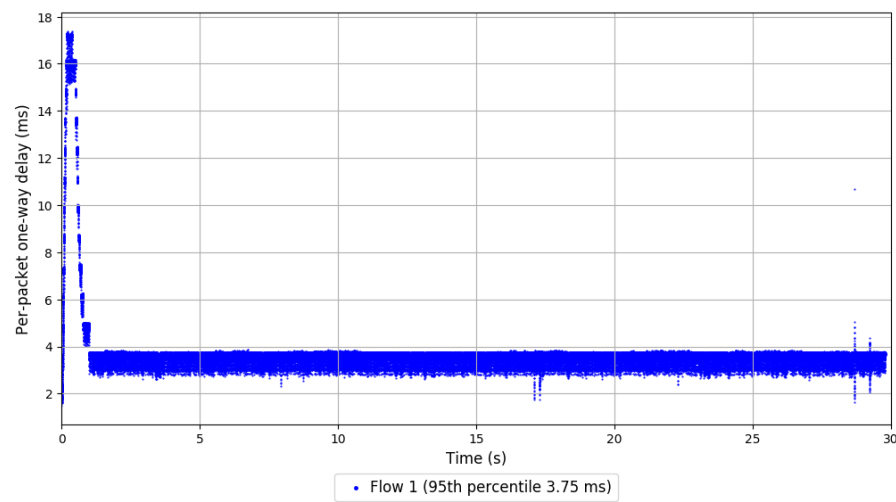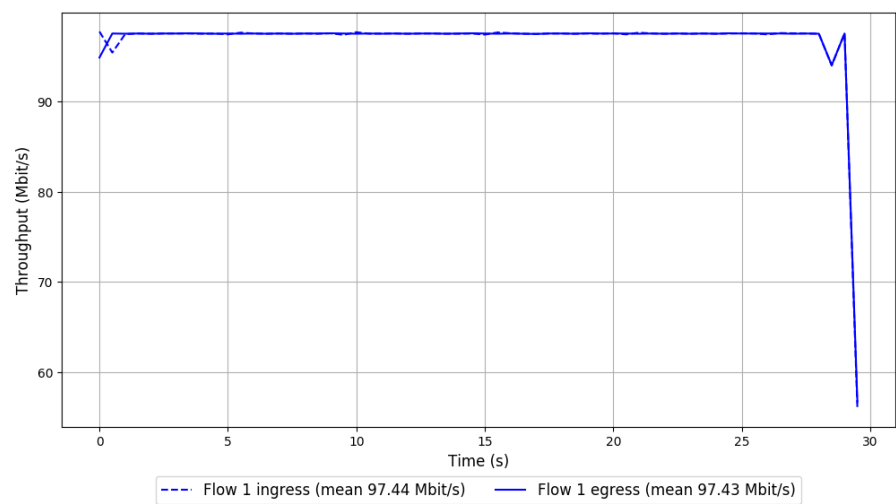
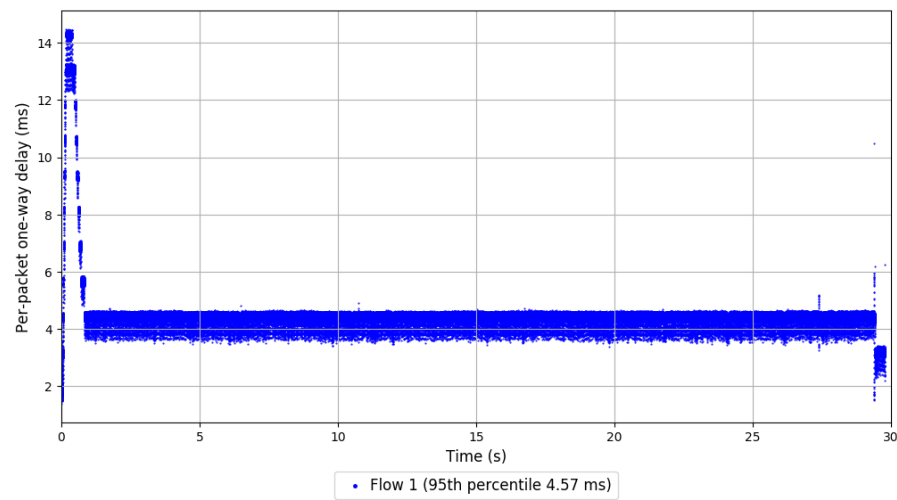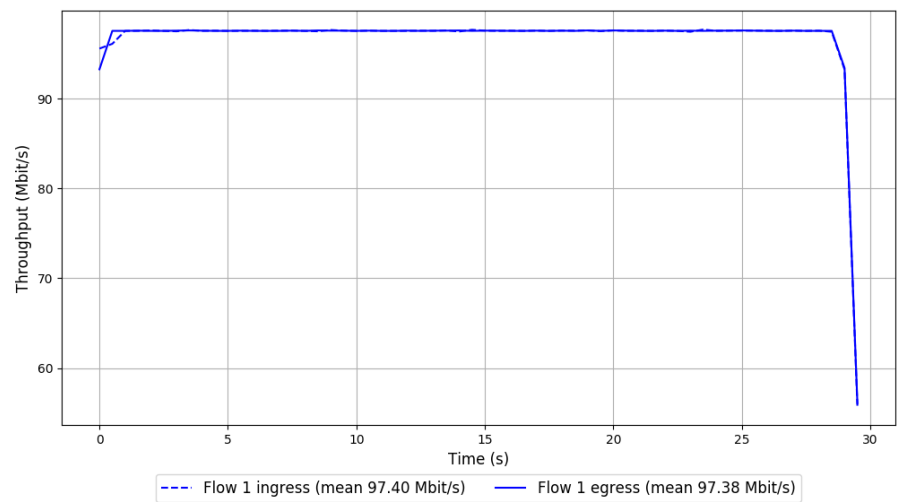Run 3: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-17 05:45:46
End at: 2018-04-17 05:46:16
Local clock offset: -5.287 ms
Remote clock offset: -6.662 ms

# Below is generated by plot.py at 2018-04-17 08:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 4.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.38 Mbit/s
95th percentile per-packet one-way delay: 4.574 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-17 06:04:45
End at: 2018-04-17 06:05:15
Local clock offset: -5.253 ms
Remote clock offset: -6.757 ms


# Below is generated by plot.py at 2018-04-17 08:33:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 4.649 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 4.649 ms
Loss rate: 0.01%
```
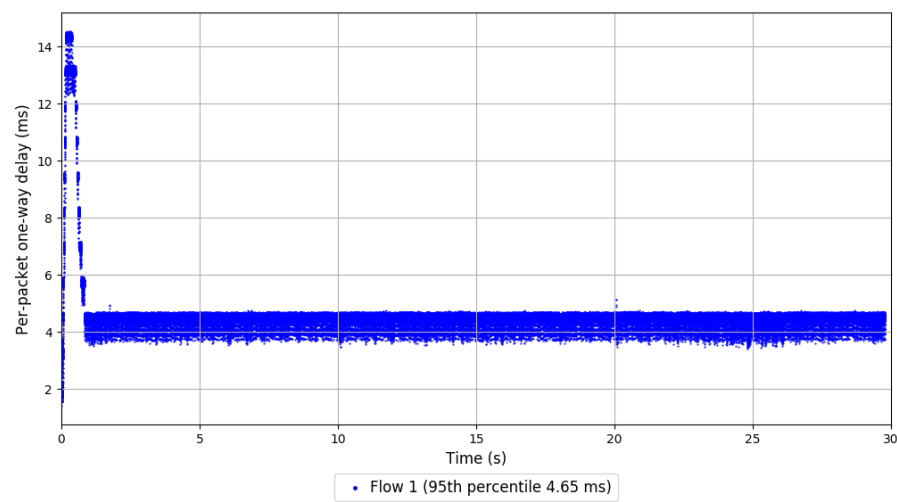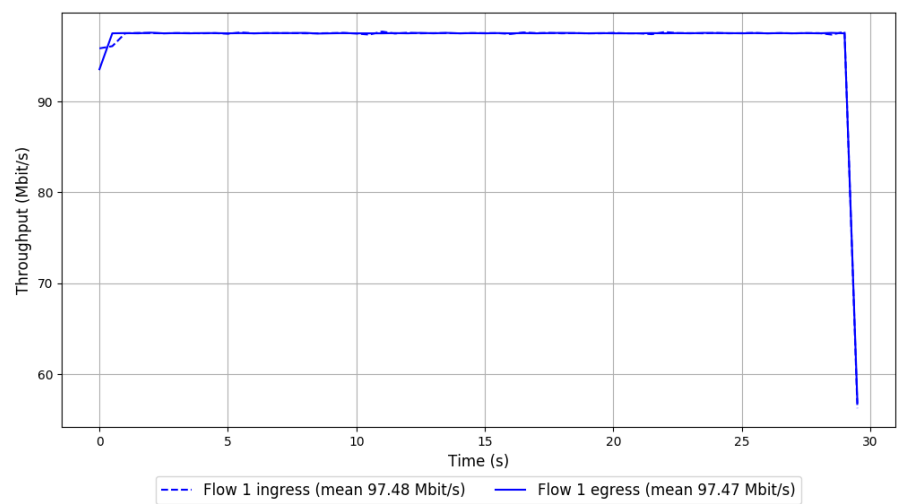
Run 5: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-17 06:23:46
End at: 2018-04-17 06:24:16
Local clock offset: -5.992 ms
Remote clock offset: -7.021 ms


# Below is generated by plot.py at 2018-04-17 08:33:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 2.945 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 2.945 ms
Loss rate: 0.00%
```
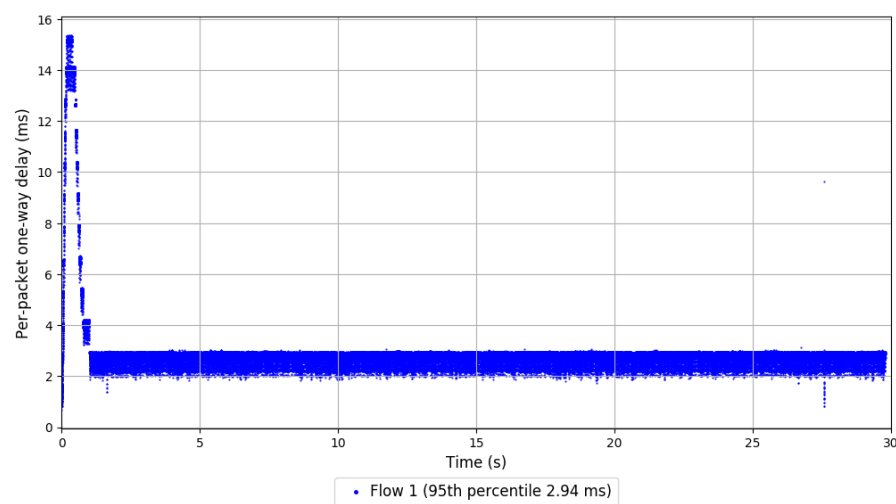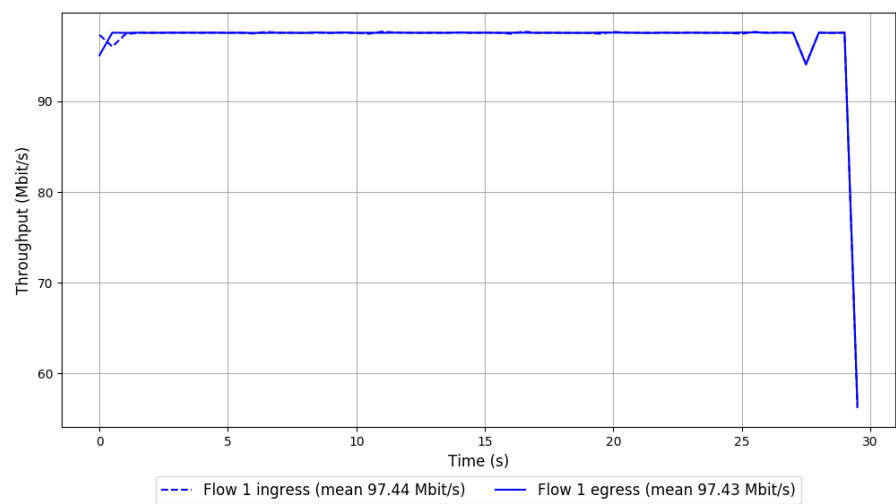
Run 6: Report of Indigo-1-32 — Data Link

Flow 1 ingress (mean 97.44 Mbit/s)   Flow 1 egress (mean 97.43 Mbit/s)
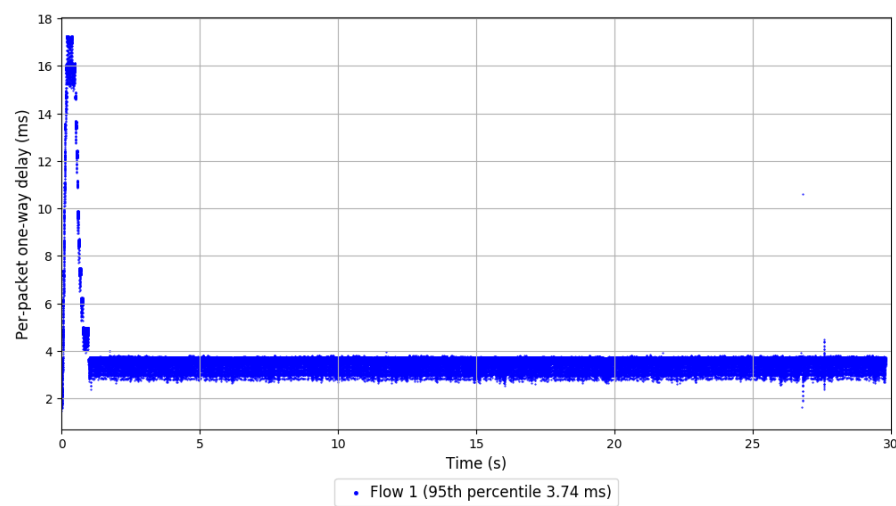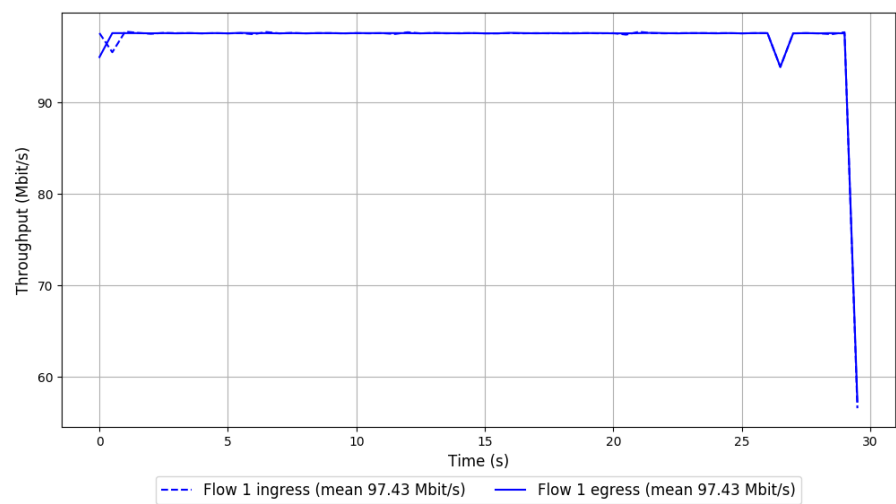

Flow 1 (95th percentile 2.94 ms)

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

Start at: 2018-04-17 06:42:49
End at: 2018-04-17 06:43:20
Local clock offset: -6.784 ms
Remote clock offset: -7.204 ms


# Below is generated by plot.py at 2018-04-17 08:33:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 3.736 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.43 Mbit/s
95th percentile per-packet one-way delay: 3.736 ms
Loss rate: 0.00%
```

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

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

Start at: 2018-04-17 07:01:52
End at: 2018-04-17 07:02:22
Local clock offset: -6.04 ms
Remote clock offset: -6.731 ms


# Below is generated by plot.py at 2018-04-17 08:33:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 2.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.49 Mbit/s
95th percentile per-packet one-way delay: 2.938 ms
Loss rate: 0.00%
```
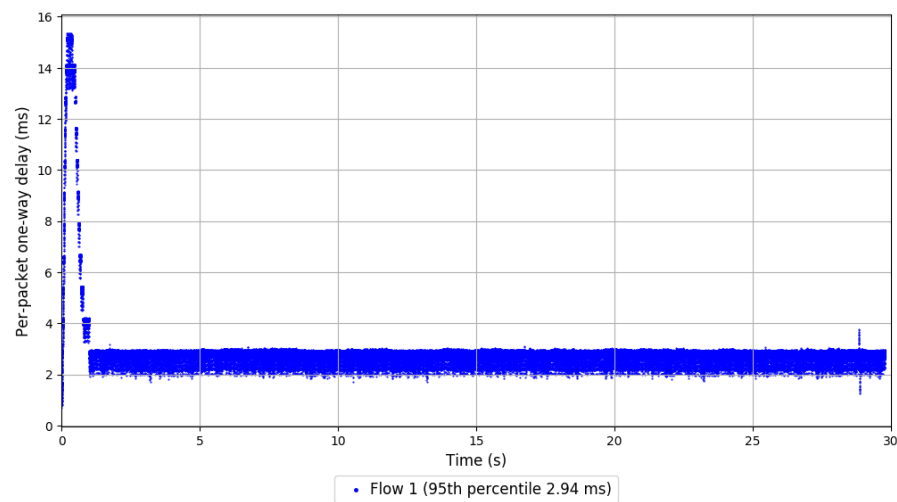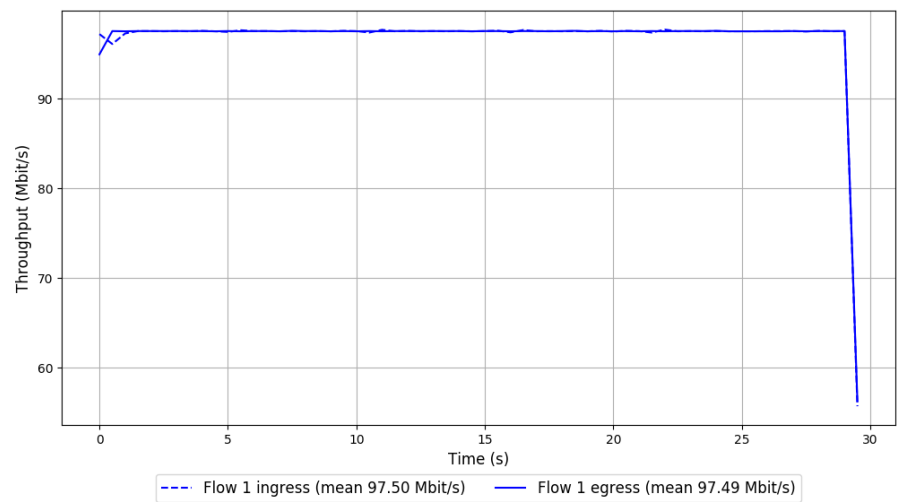
Run 8: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-17 07:20:54
End at: 2018-04-17 07:21:24
Local clock offset: -5.127 ms
Remote clock offset: -6.523 ms


# Below is generated by plot.py at 2018-04-17 08:33:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 4.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 4.611 ms
Loss rate: 0.00%
```
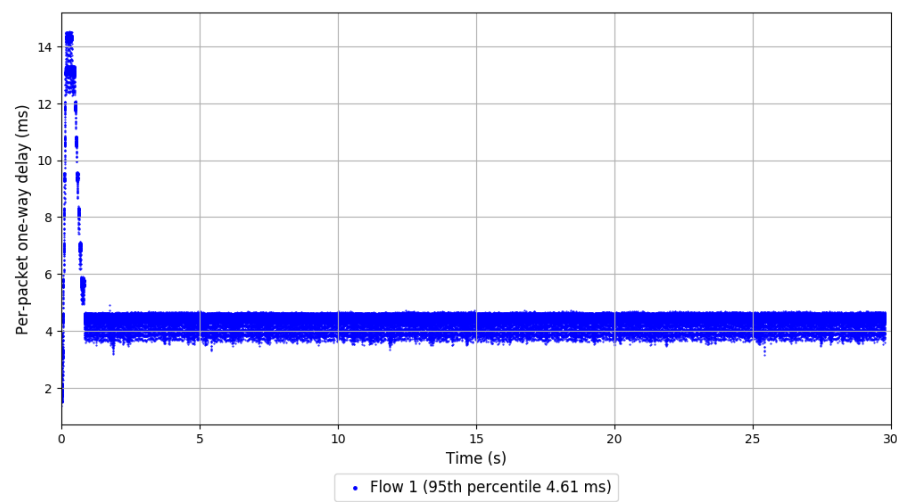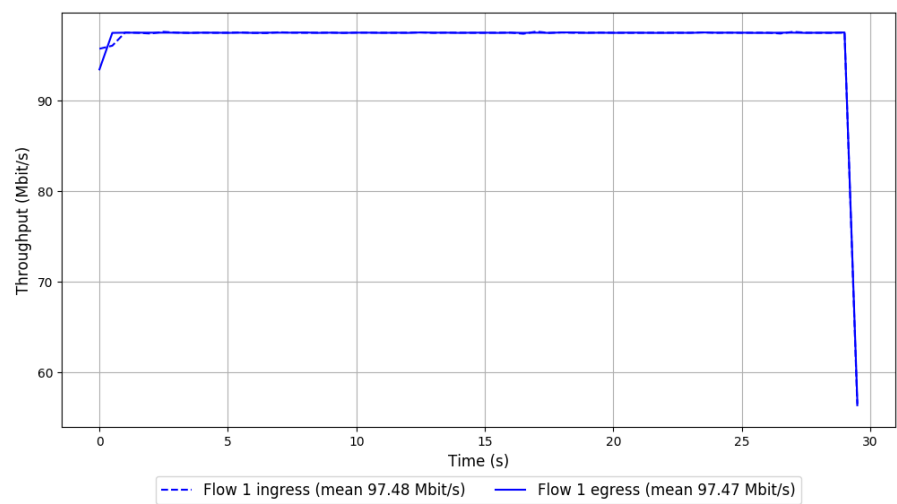
Run 9: Report of Indigo-1-32 — Data Link

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

Start at: 2018-04-17 07:39:52
End at: 2018-04-17 07:40:22
Local clock offset: -6.702 ms
Remote clock offset: -6.572 ms

# Below is generated by plot.py at 2018-04-17 08:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 6.165 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 6.165 ms
Loss rate: 0.00%
```
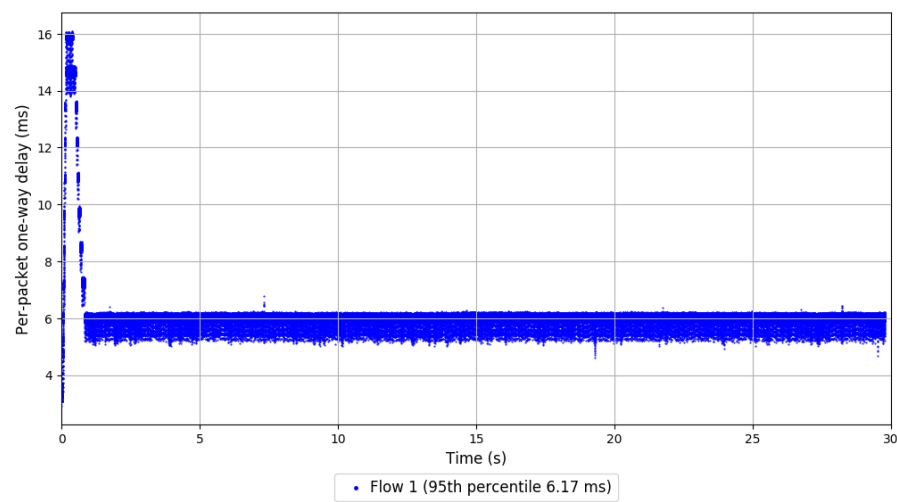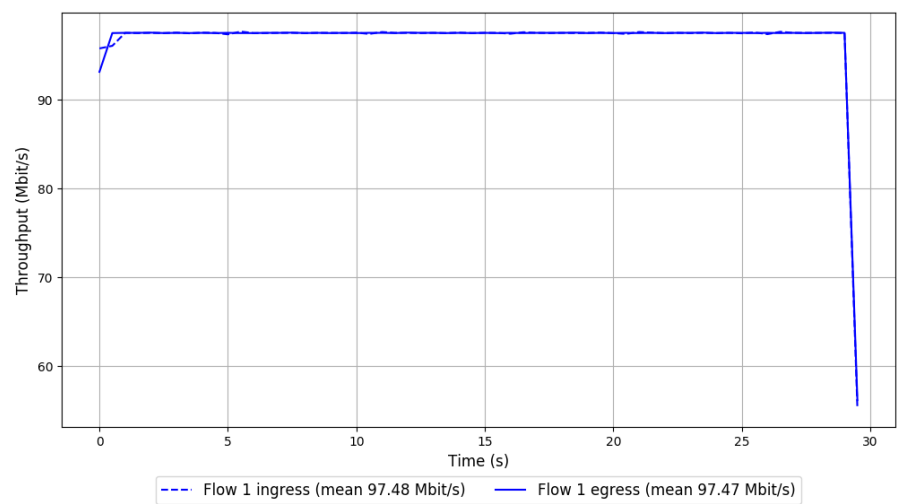
Run 10: Report of Indigo-1-32 — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 04:47:28
End at: 2018-04-17 04:47:58
Local clock offset: -5.108 ms
Remote clock offset: -6.863 ms

# Below is generated by plot.py at 2018-04-17 08:34:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 1.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.39 Mbit/s
95th percentile per-packet one-way delay: 1.793 ms
Loss rate: 0.00%
```
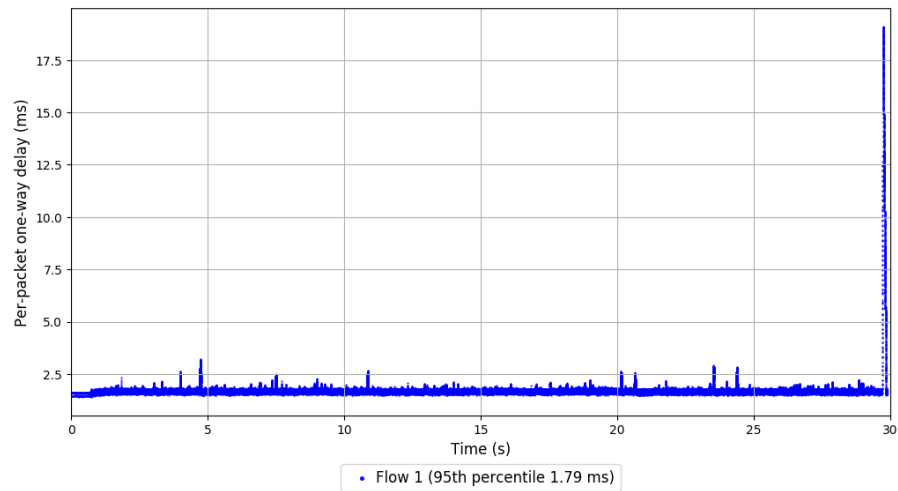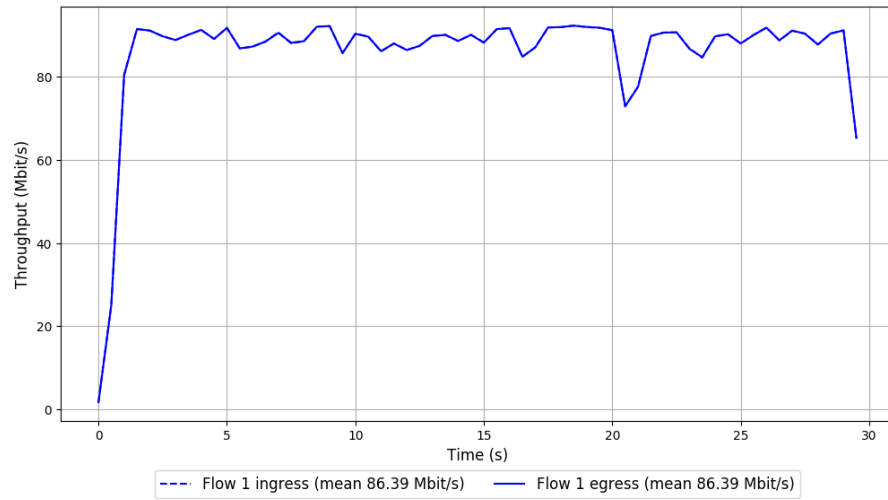
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 05:06:30
End at: 2018-04-17 05:07:00
Local clock offset: -6.878 ms
Remote clock offset: -6.836 ms


# Below is generated by plot.py at 2018-04-17 08:34:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 3.361 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 85.24 Mbit/s
95th percentile per-packet one-way delay: 3.361 ms
Loss rate: 0.02%
```

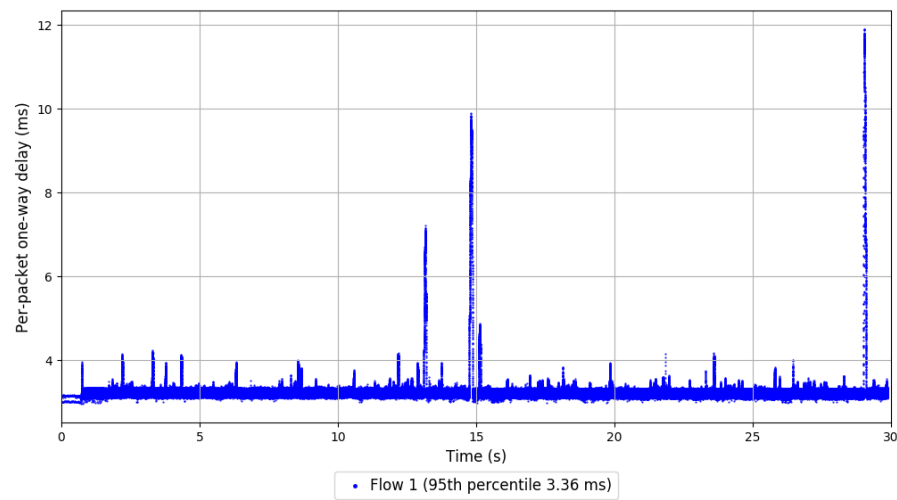Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 05:25:33
End at: 2018-04-17 05:26:03
Local clock offset: -6.116 ms
Remote clock offset: -6.512 ms


# Below is generated by plot.py at 2018-04-17 08:34:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 2.579 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 2.579 ms
Loss rate: 0.00%
```
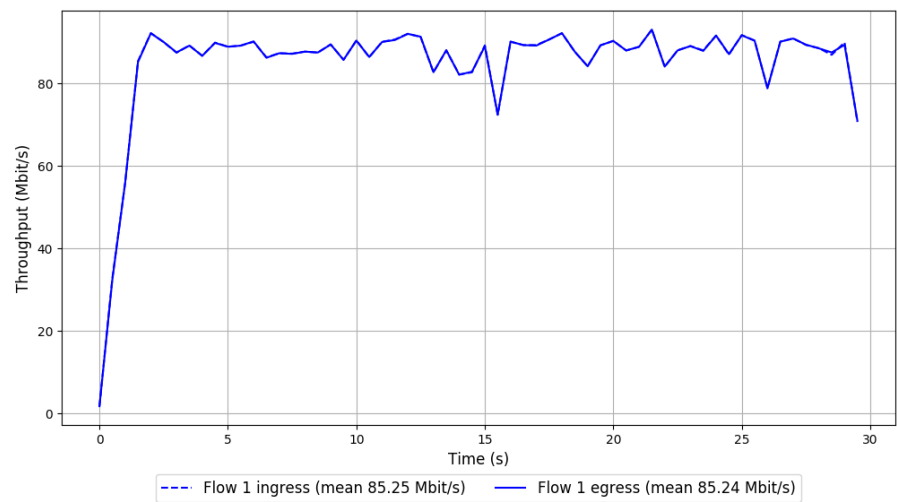
Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 86.08 Mbit/s)   Flow 1 egress (mean 86.06 Mbit/s)

Flow 1 (95th percentile 2.58 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 05:44:37
End at: 2018-04-17 05:45:07
Local clock offset: -6.778 ms
Remote clock offset: -6.578 ms


# Below is generated by plot.py at 2018-04-17 08:34:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 3.300 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.96 Mbit/s
95th percentile per-packet one-way delay: 3.300 ms
Loss rate: 0.00%
```
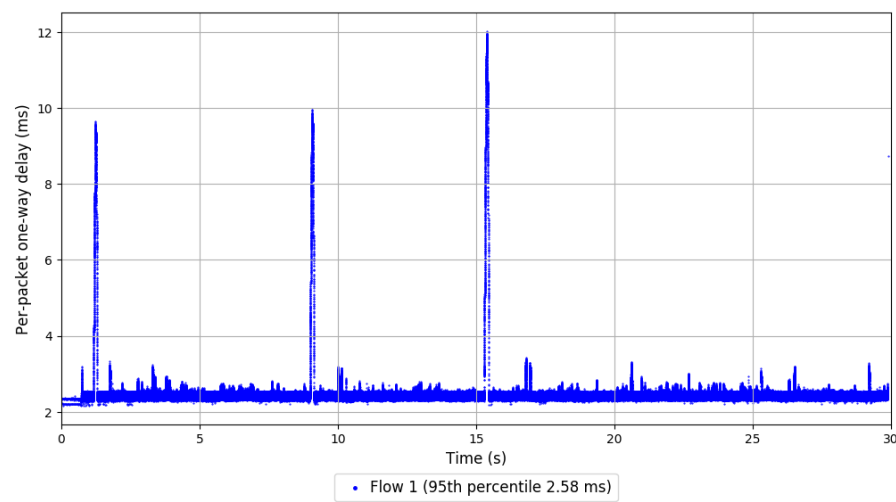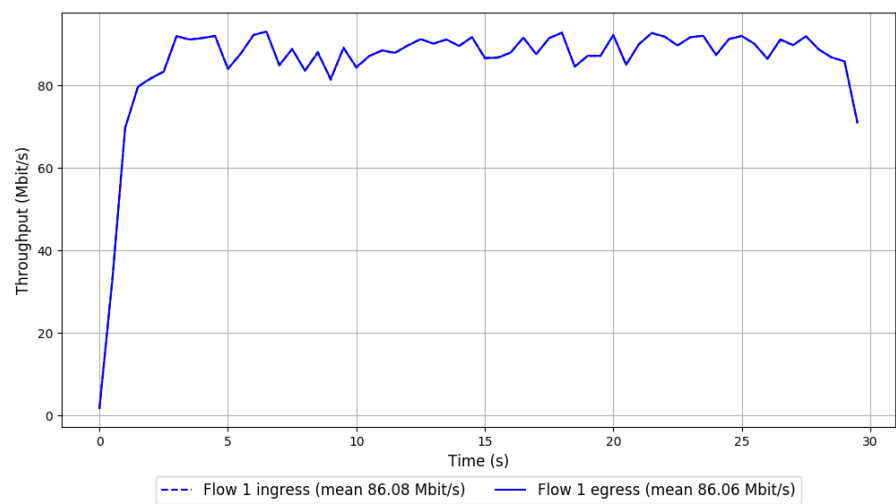
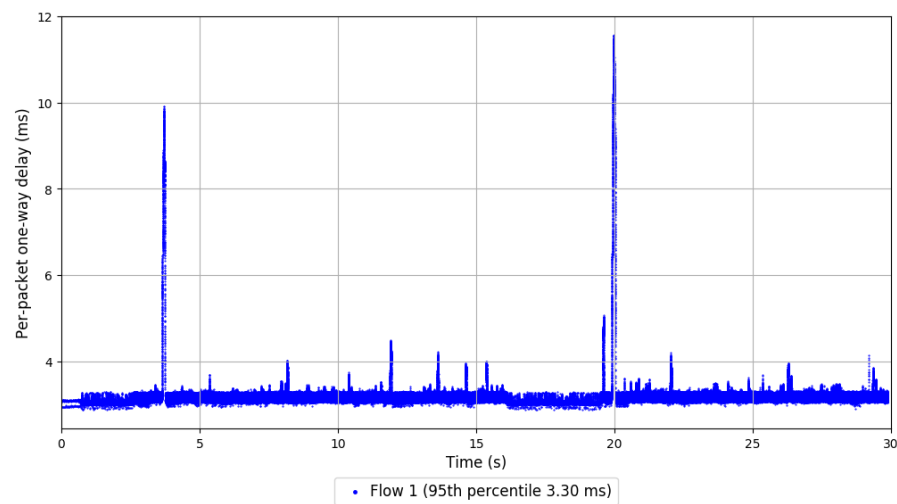Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 06:03:39
End at: 2018-04-17 06:04:09
Local clock offset: -6.028 ms
Remote clock offset: -6.735 ms


# Below is generated by plot.py at 2018-04-17 08:34:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.09 Mbit/s
95th percentile per-packet one-way delay: 1.058 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.09 Mbit/s
95th percentile per-packet one-way delay: 1.058 ms
Loss rate: 0.00%
```
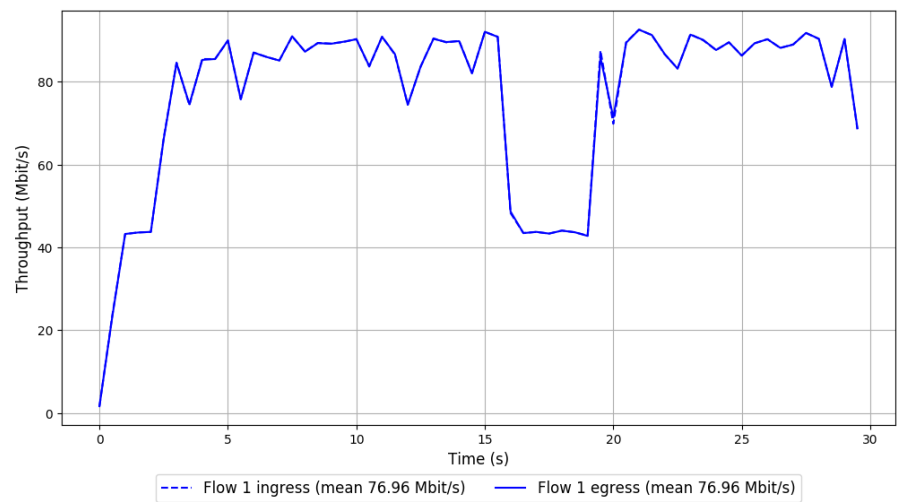
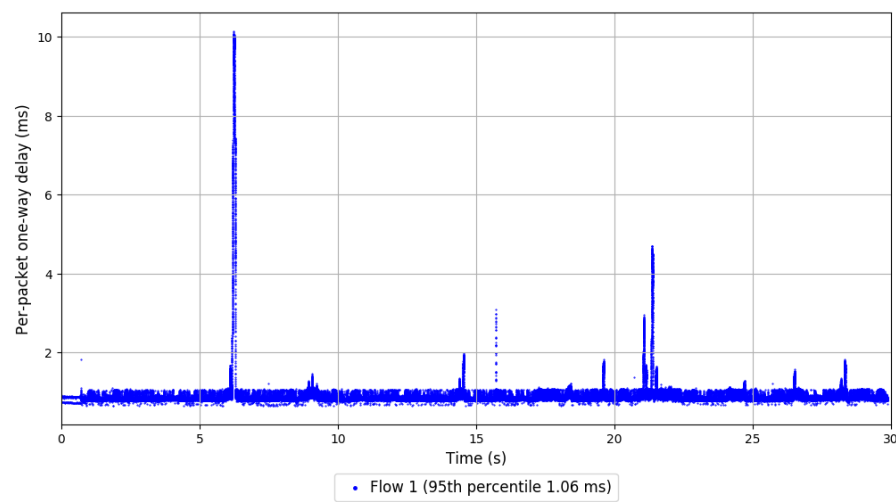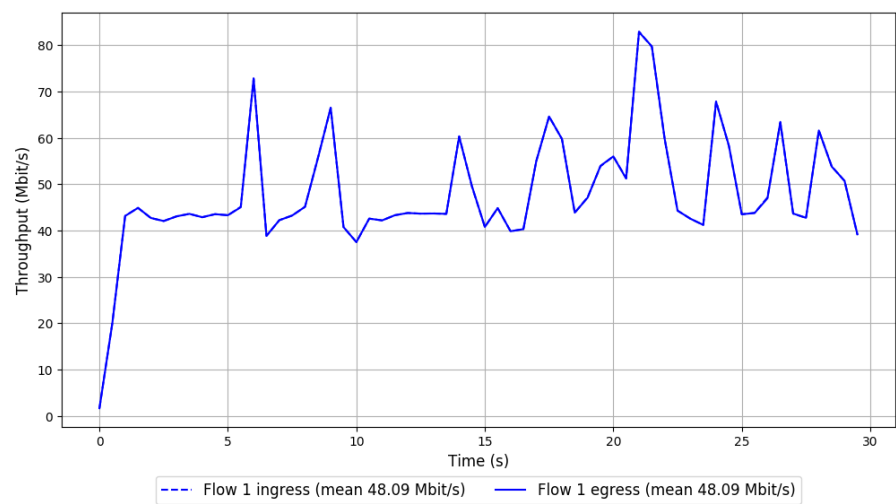Run 5: Report of PCC-Vivace — Data Link

```
Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 06:22:39
End at: 2018-04-17 06:23:09
Local clock offset: -6.036 ms
Remote clock offset: -6.993 ms


# Below is generated by plot.py at 2018-04-17 08:34:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.60 Mbit/s
95th percentile per-packet one-way delay: 1.104 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.60 Mbit/s
95th percentile per-packet one-way delay: 1.104 ms
Loss rate: 0.00%
```

Run 6: Report of PCC-Vivace — Data Link

```
Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 06:41:41
End at: 2018-04-17 06:42:11
Local clock offset: -5.963 ms
Remote clock offset: -7.198 ms


# Below is generated by plot.py at 2018-04-17 08:35:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 2.676 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 2.676 ms
Loss rate: 0.01%
```
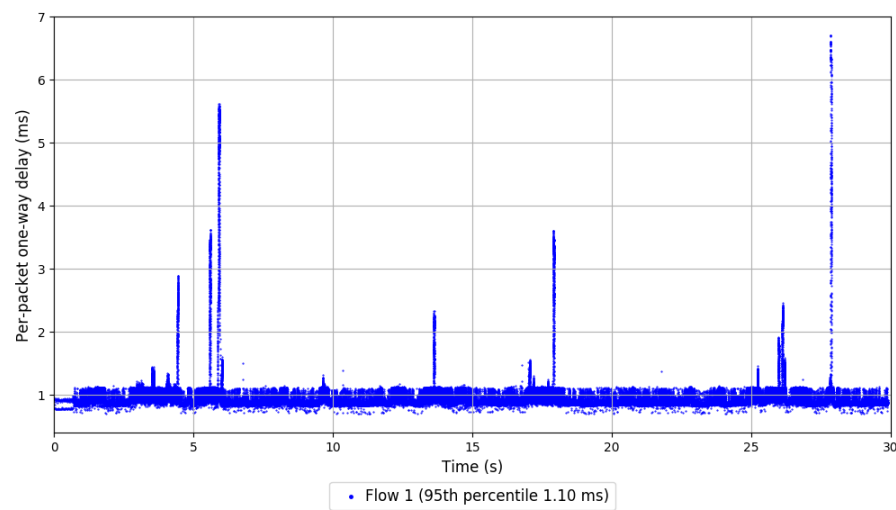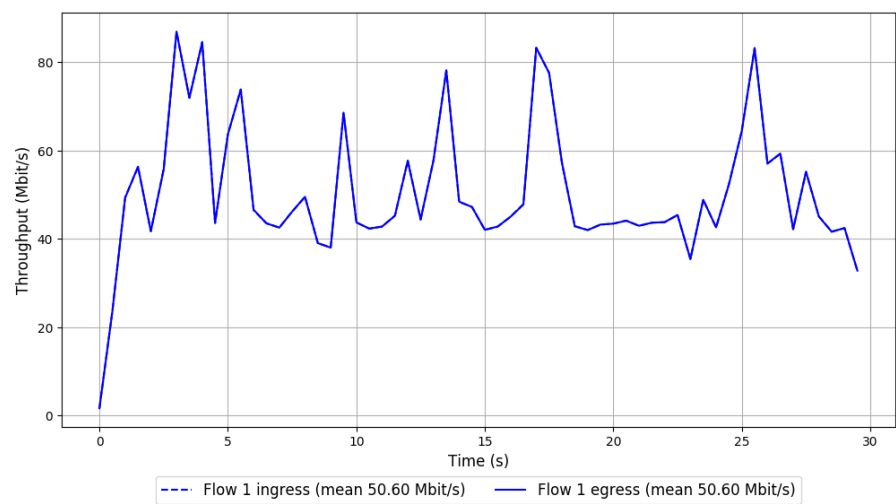
Run 7: Report of PCC-Vivace — Data Link

```
Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 07:00:43
End at: 2018-04-17 07:01:13
Local clock offset: -5.226 ms
Remote clock offset: -6.728 ms


# Below is generated by plot.py at 2018-04-17 08:35:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.63 Mbit/s
95th percentile per-packet one-way delay: 1.802 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.63 Mbit/s
95th percentile per-packet one-way delay: 1.802 ms
Loss rate: 0.00%
```
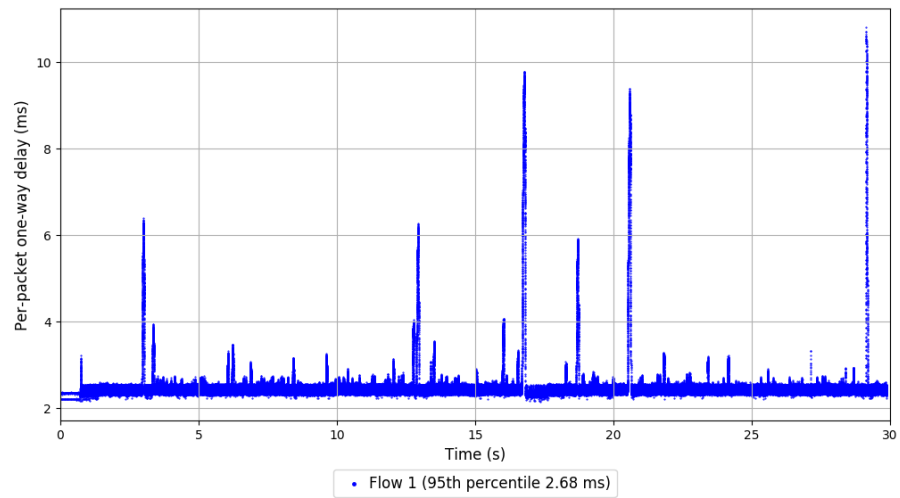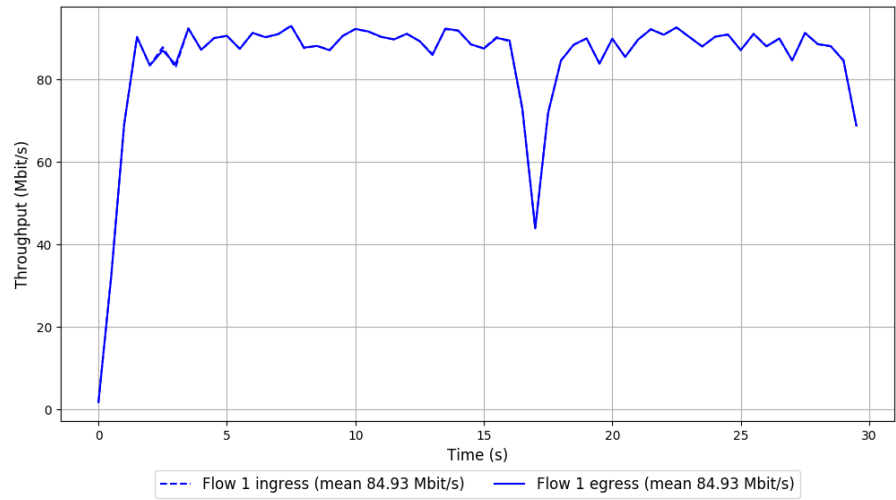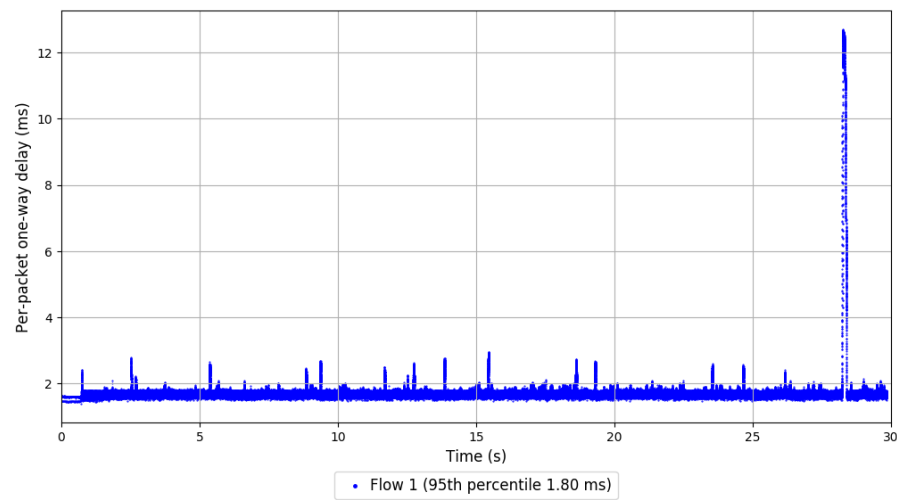
Run 8: Report of PCC-Vivace — Data Link

```
Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 07:19:47
End at: 2018-04-17 07:20:17
Local clock offset: -5.137 ms
Remote clock offset: -6.588 ms


# Below is generated by plot.py at 2018-04-17 08:35:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.35 Mbit/s
95th percentile per-packet one-way delay: 0.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.35 Mbit/s
95th percentile per-packet one-way delay: 0.387 ms
Loss rate: 0.00%
```
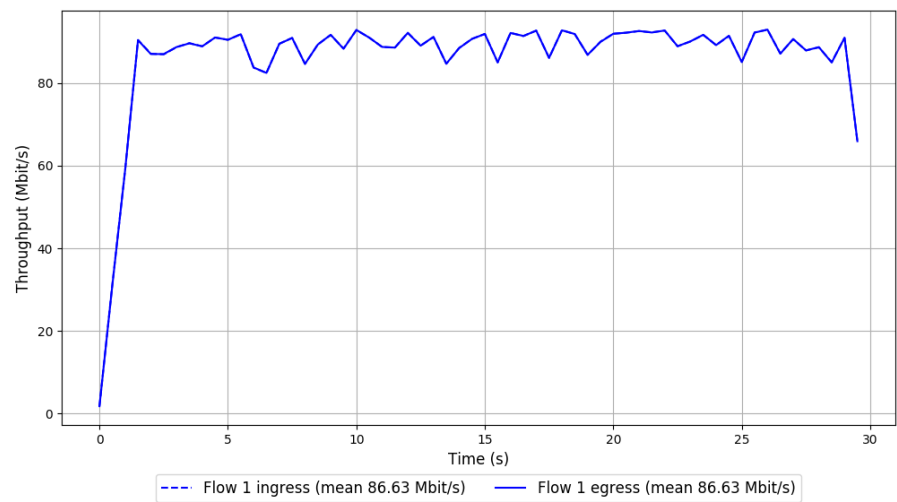
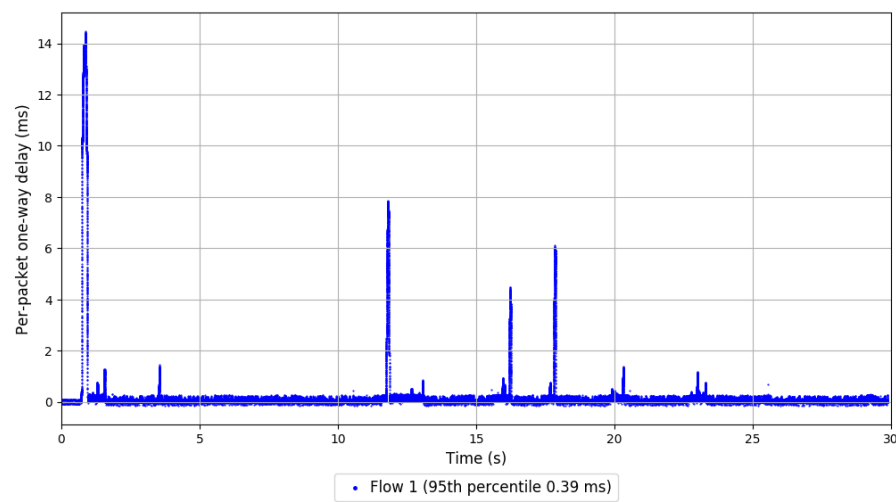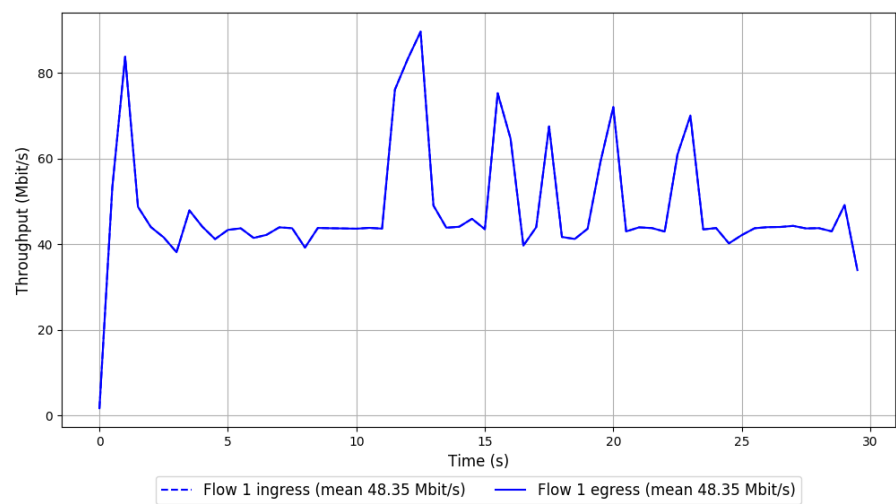Run 9: Report of PCC-Vivace — Data Link

```
Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 07:38:43
End at: 2018-04-17 07:39:13
Local clock offset: -5.94 ms
Remote clock offset: -6.514 ms


# Below is generated by plot.py at 2018-04-17 08:35:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.20 Mbit/s
95th percentile per-packet one-way delay: 2.633 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.20 Mbit/s
95th percentile per-packet one-way delay: 2.633 ms
Loss rate: 0.01%
```

Run 10: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 81.22 Mbit/s) --- Flow 1 egress (mean 81.20 Mbit/s)

Flow 1 (95th percentile 2.63 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 04:44:04
End at: 2018-04-17 04:44:34
Local clock offset: -5.893 ms
Remote clock offset: -6.863 ms
```

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

```
Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 05:03:07
End at: 2018-04-17 05:03:37
Local clock offset: -6.841 ms
Remote clock offset: -6.902 ms
```

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

```
Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 05:22:10
End at: 2018-04-17 05:22:40
Local clock offset: -5.4 ms
Remote clock offset: -6.552 ms
```

Run 3: Report of PCC-Expr — Data Link

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```
Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 05:41:14
End at: 2018-04-17 05:41:44
Local clock offset: -6.048 ms
Remote clock offset: -6.569 ms
```

Run 4: Report of PCC-Expr — Data Link

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```
Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 06:00:15
End at: 2018-04-17 06:00:45
Local clock offset: -5.291 ms
Remote clock offset: -6.721 ms
```

Run 5: Report of PCC-Expr — Data Link

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```
Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 06:19:16
End at: 2018-04-17 06:19:46
Local clock offset: -5.213 ms
Remote clock offset: -6.968 ms
```

Run 6: Report of PCC-Expr — Data Link

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Figure is missing

```
Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 06:38:17
End at: 2018-04-17 06:38:47
Local clock offset: -6.036 ms
Remote clock offset: -7.16 ms
```

Run 7: Report of PCC-Expr — Data Link

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```
Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 06:57:20
End at: 2018-04-17 06:57:50
Local clock offset: -5.212 ms
Remote clock offset: -6.779 ms
```

Run 8: Report of PCC-Expr — Data Link

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```
Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 07:16:24
End at: 2018-04-17 07:16:54
Local clock offset: -5.928 ms
Remote clock offset: -6.559 ms
```

Run 9: Report of PCC-Expr — Data Link

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```
Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 07:35:26
End at: 2018-04-17 07:35:56
Local clock offset: -5.862 ms
Remote clock offset: -6.515 ms
```

Run 10: Report of PCC-Expr — Data Link

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Figure is missing