Pantheon Report

Generated at 2018-05-30 12:18:52 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

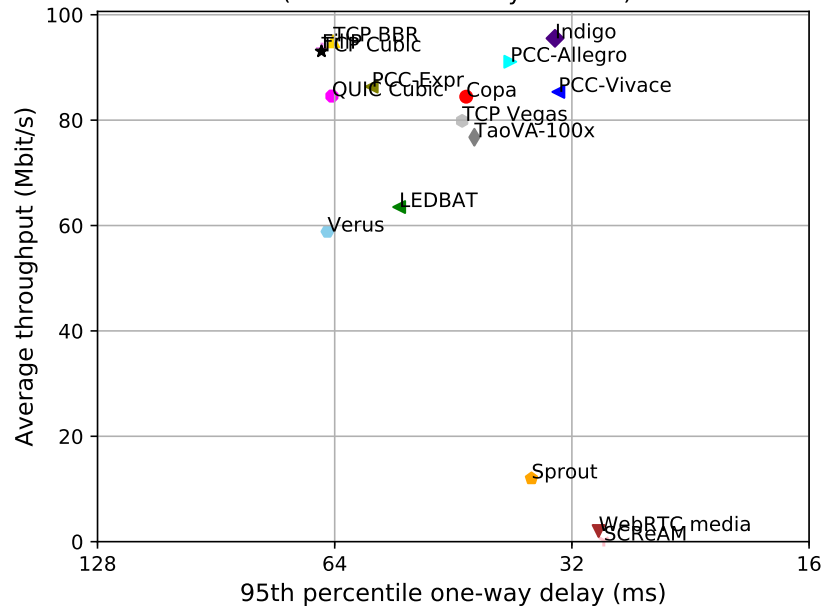Each test lasted for 30 seconds running 1 flow.

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

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.
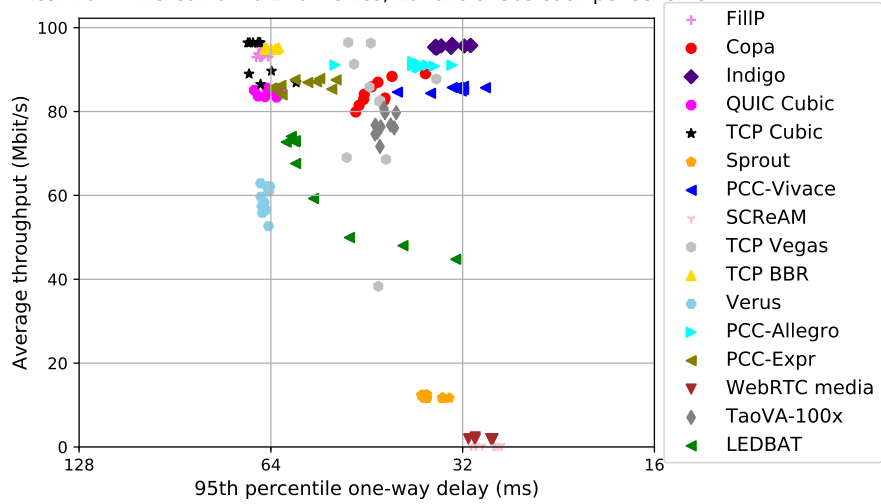
```
Git summary:
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
 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 @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS California 2 to Mexico, 10 runs of 30s each per scheme
(mean of all runs by scheme)

test from AWS California 2 to Mexico, 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	94.96	64.28	3.97
Copa	10	84.45	43.58	0.69
TCP Cubic	10	93.05	66.52	0.43
FillP	10	93.56	66.42	7.66
Indigo	10	95.52	33.62	0.03
LEDBAT	10	63.51	53.01	0.02
PCC-Allegro	10	91.08	38.31	0.70
PCC-Expr	10	86.36	57.45	0.77
QUIC Cubic	9	84.57	64.52	1.14
SCReAM	10	0.22	29.15	0.00
Sprout	10	12.01	36.01	0.01
TaoVA-100x	10	76.76	42.55	0.01
TCP Vegas	10	79.86	44.10	0.33
Verus	10	58.85	65.38	26.05
PCC-Vivace	10	85.36	33.29	0.01
WebRTC media	10	2.02	29.60	0.02

```
Run 1: Statistics of TCP BBR

Start at: 2018-05-30 08:32:16
End at: 2018-05-30 08:32:46
Local clock offset: 1.493 ms
Remote clock offset: -2.909 ms

# Below is generated by plot.py at 2018-05-30 11:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 65.059 ms
Loss rate: 4.09%
-- Flow 1:
Average throughput: 95.01 Mbit/s
95th percentile per-packet one-way delay: 65.059 ms
Loss rate: 4.09%
```
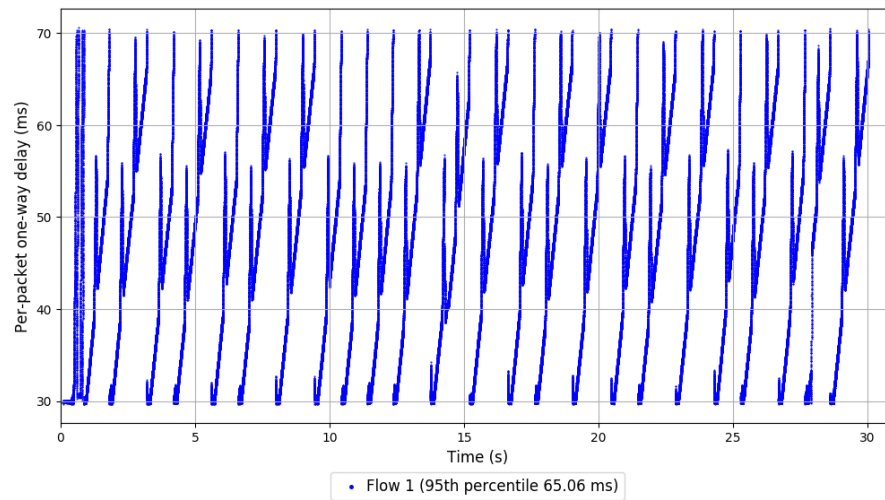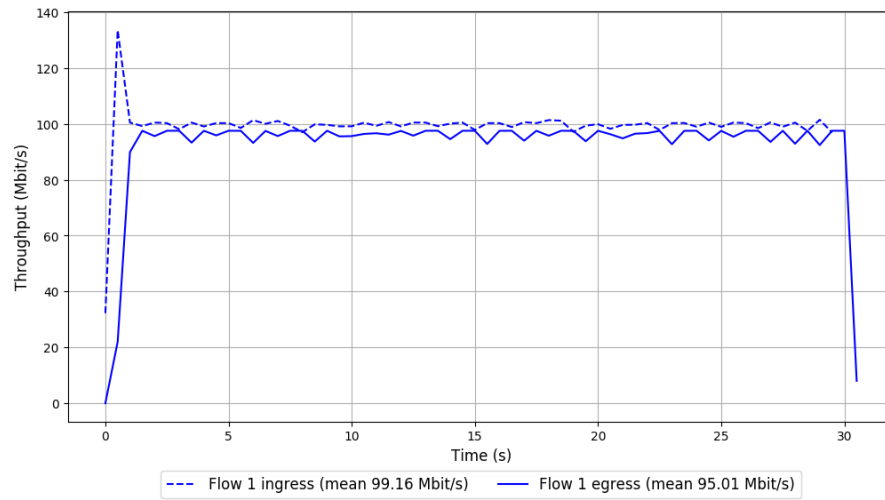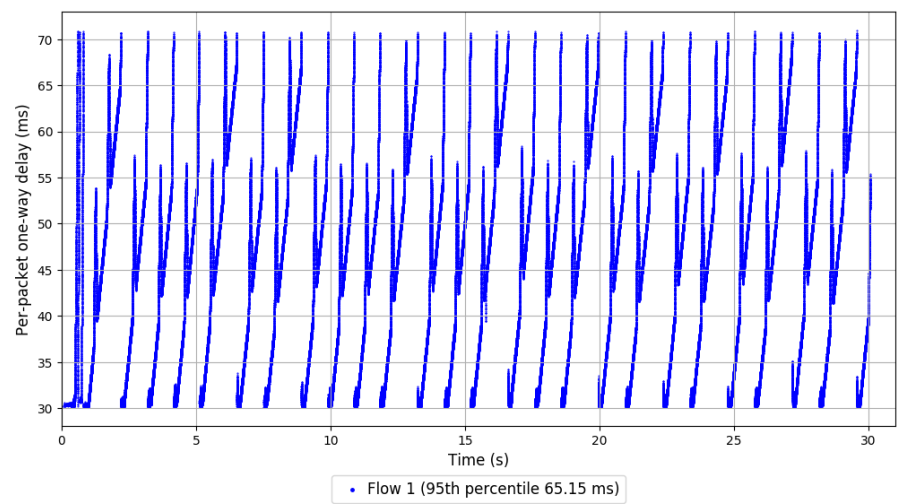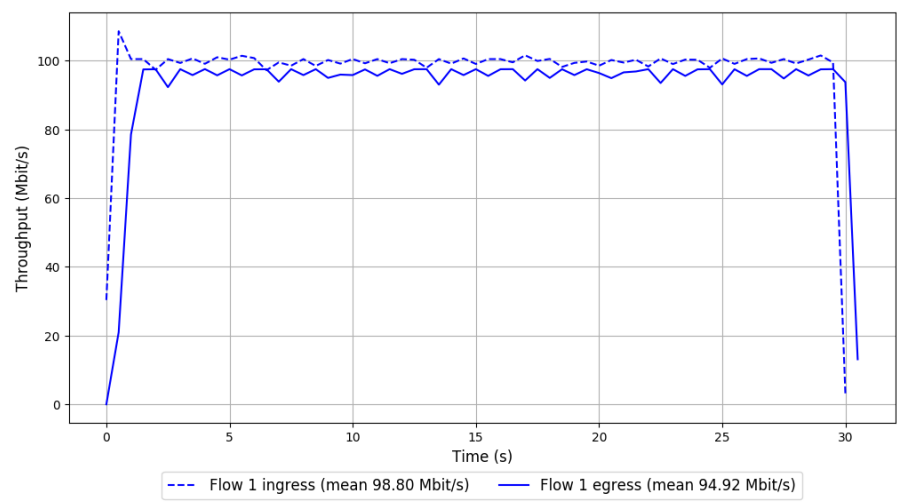
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 99.16 Mbit/s)   Flow 1 egress (mean 95.01 Mbit/s)

• Flow 1 (95th percentile 65.06 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2018-05-30 08:53:12
End at: 2018-05-30 08:53:42
Local clock offset: 1.466 ms
Remote clock offset: -3.028 ms


# Below is generated by plot.py at 2018-05-30 11:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 65.150 ms
Loss rate: 3.84%
-- Flow 1:
Average throughput: 94.92 Mbit/s
95th percentile per-packet one-way delay: 65.150 ms
Loss rate: 3.84%
```
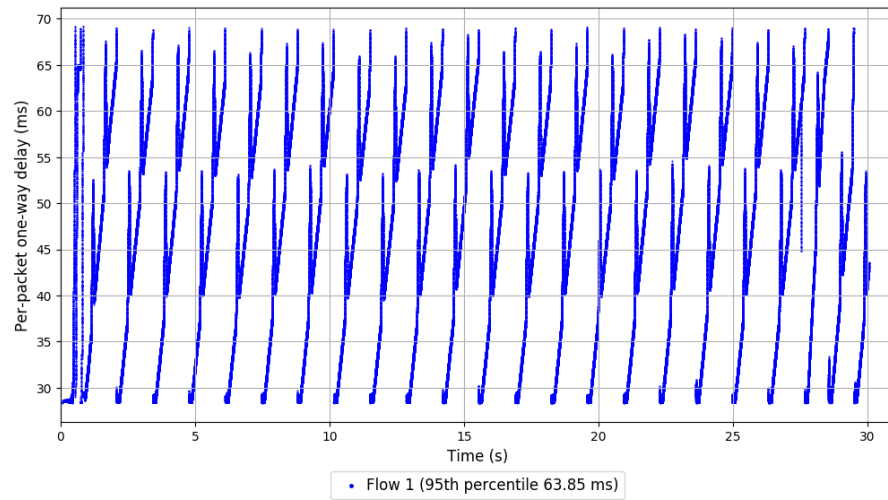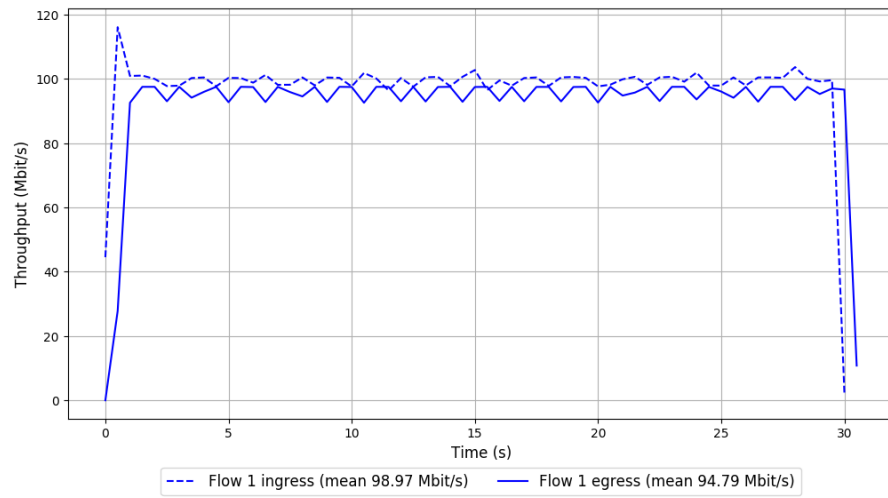
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.80 Mbit/s) — — — Flow 1 egress (mean 94.92 Mbit/s)

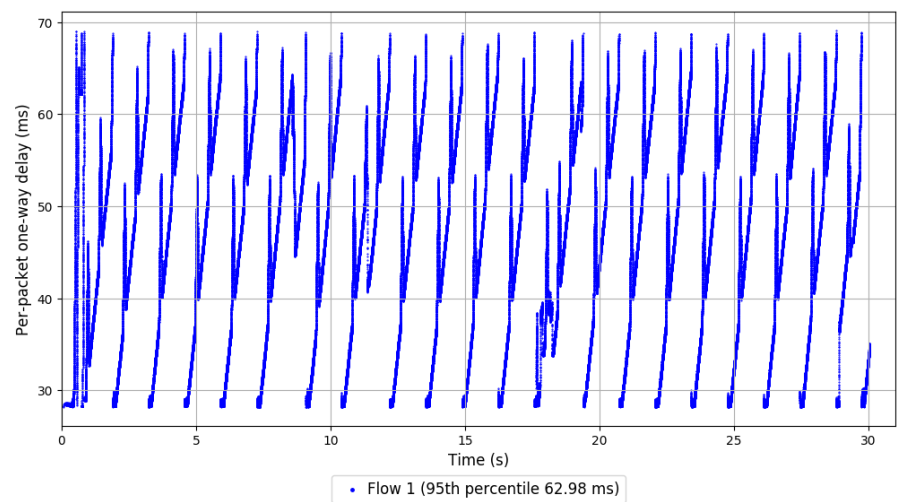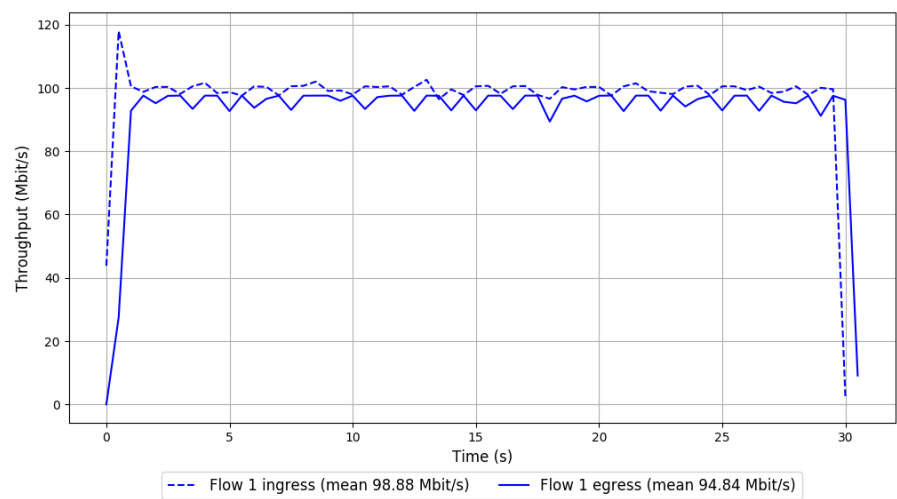· Flow 1 (95th percentile 65.15 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2018-05-30 09:14:05
End at: 2018-05-30 09:14:35
Local clock offset: 0.968 ms
Remote clock offset: -5.948 ms


# Below is generated by plot.py at 2018-05-30 11:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 63.853 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 94.79 Mbit/s
95th percentile per-packet one-way delay: 63.853 ms
Loss rate: 4.17%
```

Run 3: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.97 Mbit/s)   Flow 1 egress (mean 94.79 Mbit/s)

• Flow 1 (95th percentile 63.85 ms)

```
Run 4: Statistics of TCP BBR

Start at: 2018-05-30 09:35:01
End at: 2018-05-30 09:35:31
Local clock offset: 0.66 ms
Remote clock offset: -2.314 ms


# Below is generated by plot.py at 2018-05-30 11:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 62.980 ms
Loss rate: 4.07%
-- Flow 1:
Average throughput: 94.84 Mbit/s
95th percentile per-packet one-way delay: 62.980 ms
Loss rate: 4.07%
```
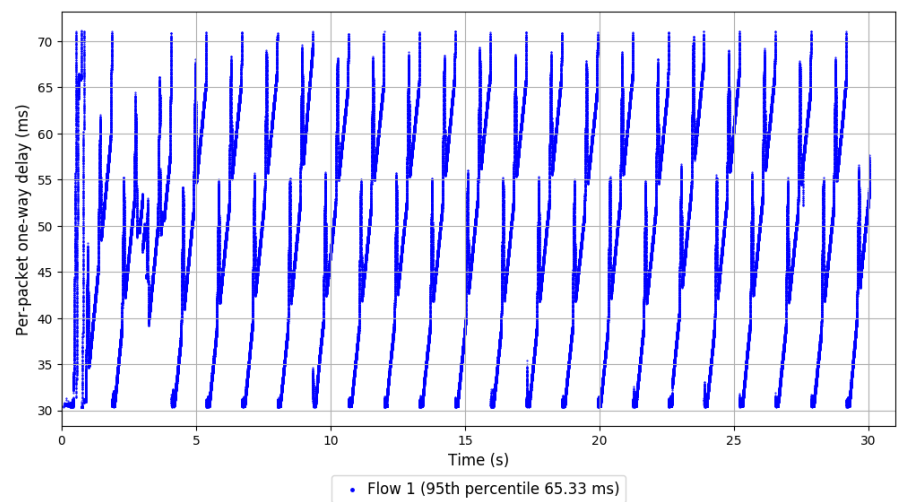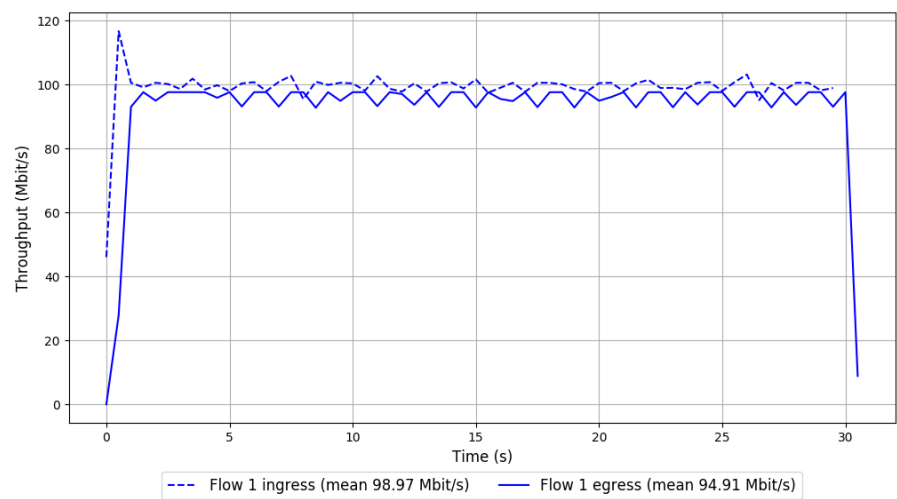
Run 4: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.88 Mbit/s) ---- Flow 1 egress (mean 94.84 Mbit/s)

• Flow 1 (95th percentile 62.98 ms)

```
Run 5: Statistics of TCP BBR

Start at: 2018-05-30 09:55:59
End at: 2018-05-30 09:56:29
Local clock offset: 1.523 ms
Remote clock offset: 0.229 ms


# Below is generated by plot.py at 2018-05-30 11:58:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 65.327 ms
Loss rate: 4.01%
-- Flow 1:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 65.327 ms
Loss rate: 4.01%
```
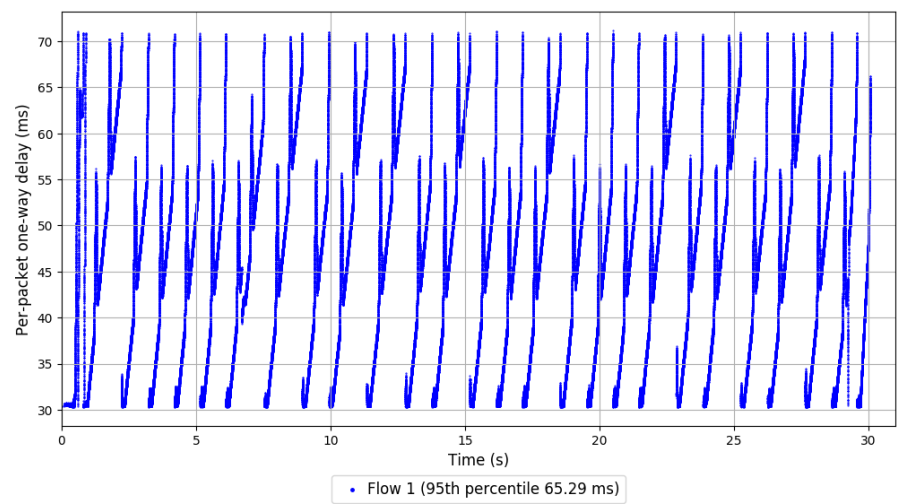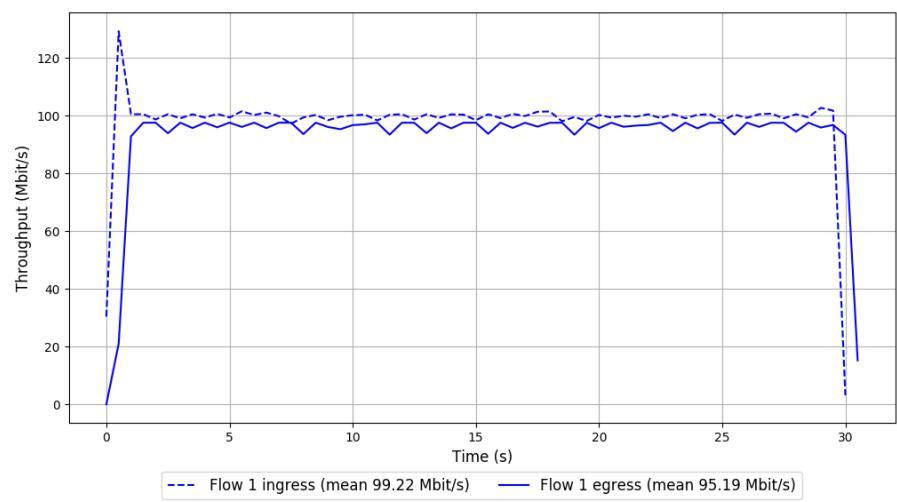
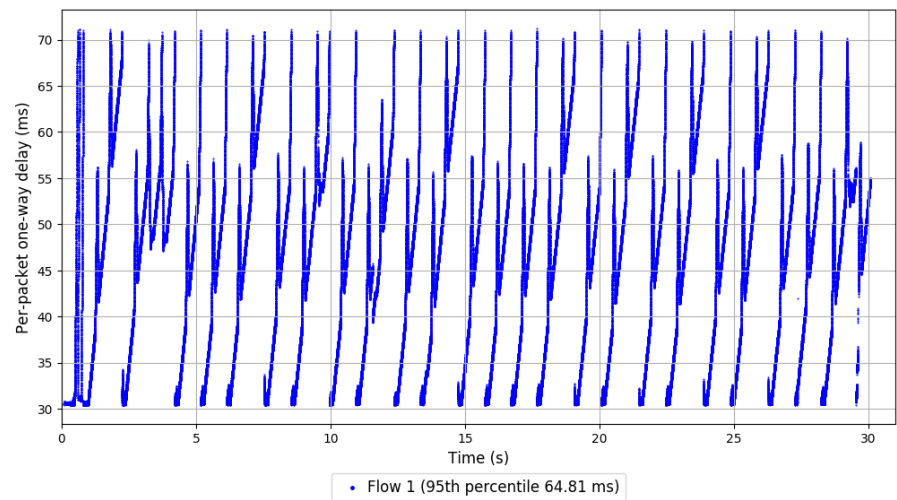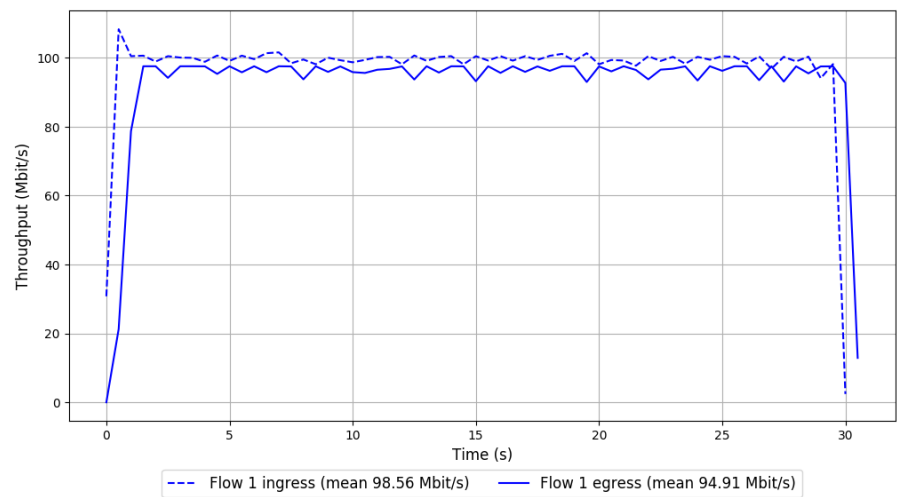Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.97 Mbit/s) --- Flow 1 egress (mean 94.91 Mbit/s)

Flow 1 (95th percentile 65.33 ms)

```
Run 6: Statistics of TCP BBR

Start at: 2018-05-30 10:16:55
End at: 2018-05-30 10:17:25
Local clock offset: 1.071 ms
Remote clock offset: 0.114 ms


# Below is generated by plot.py at 2018-05-30 11:58:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 65.288 ms
Loss rate: 3.95%
-- Flow 1:
Average throughput: 95.19 Mbit/s
95th percentile per-packet one-way delay: 65.288 ms
Loss rate: 3.95%
```

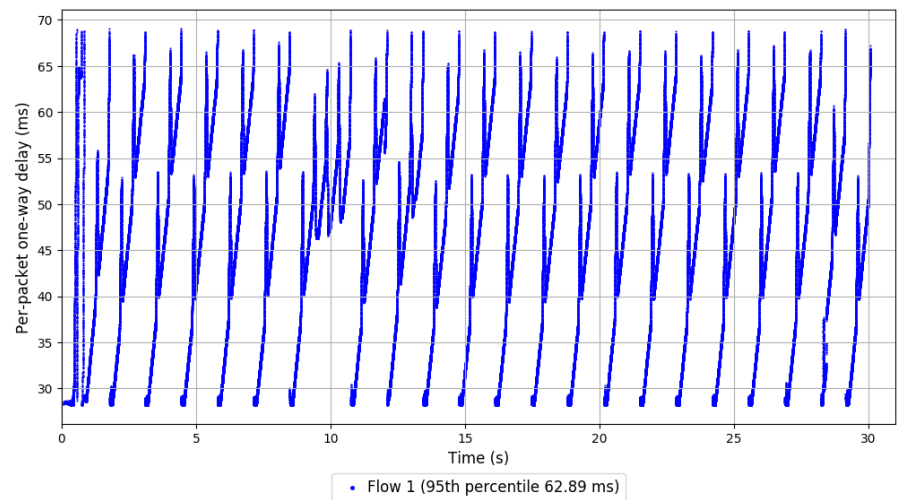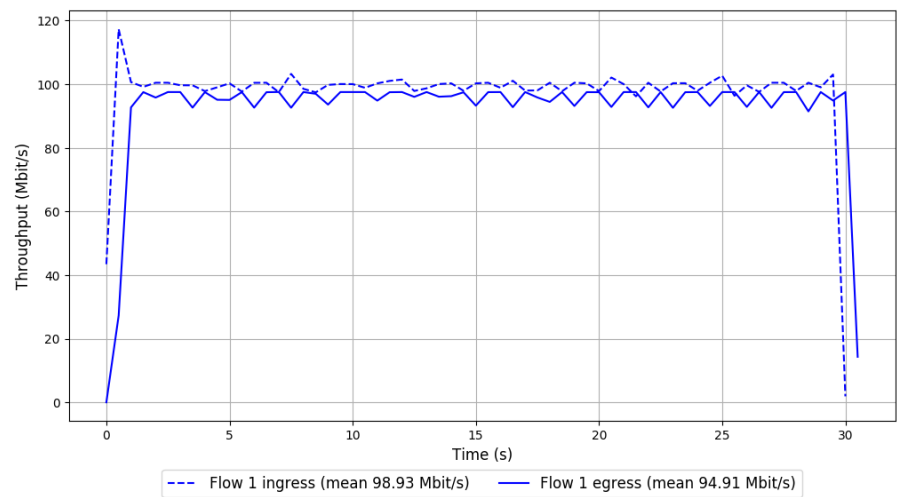Run 6: Report of TCP BBR — Data Link

```
Run 7: Statistics of TCP BBR

Start at: 2018-05-30 10:37:50
End at: 2018-05-30 10:38:20
Local clock offset: 0.744 ms
Remote clock offset: -0.326 ms


# Below is generated by plot.py at 2018-05-30 11:58:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 64.805 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 64.805 ms
Loss rate: 3.62%
```

Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.56 Mbit/s)   Flow 1 egress (mean 94.91 Mbit/s)

• Flow 1 (95th percentile 64.81 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-05-30 10:58:43
End at: 2018-05-30 10:59:13
Local clock offset: 0.912 ms
Remote clock offset: -2.437 ms


# Below is generated by plot.py at 2018-05-30 11:58:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 62.886 ms
Loss rate: 3.96%
-- Flow 1:
Average throughput: 94.91 Mbit/s
95th percentile per-packet one-way delay: 62.886 ms
Loss rate: 3.96%
```
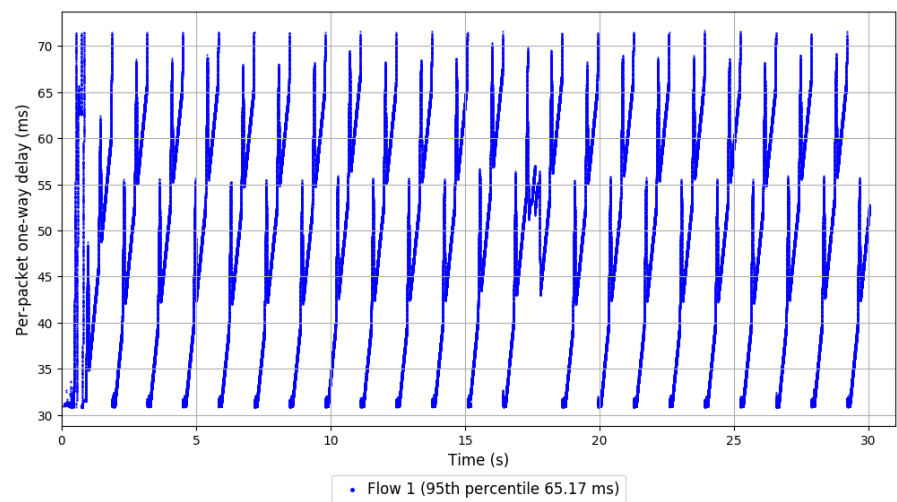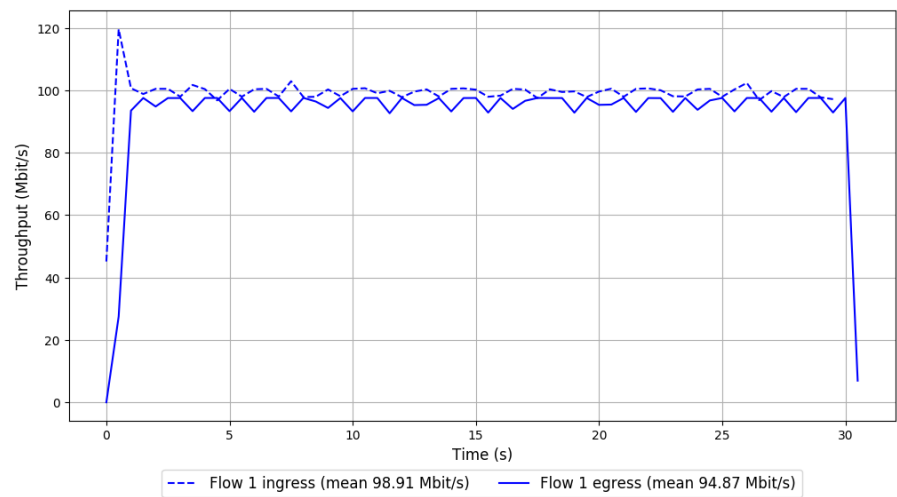
Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.93 Mbit/s)   Flow 1 egress (mean 94.91 Mbit/s)
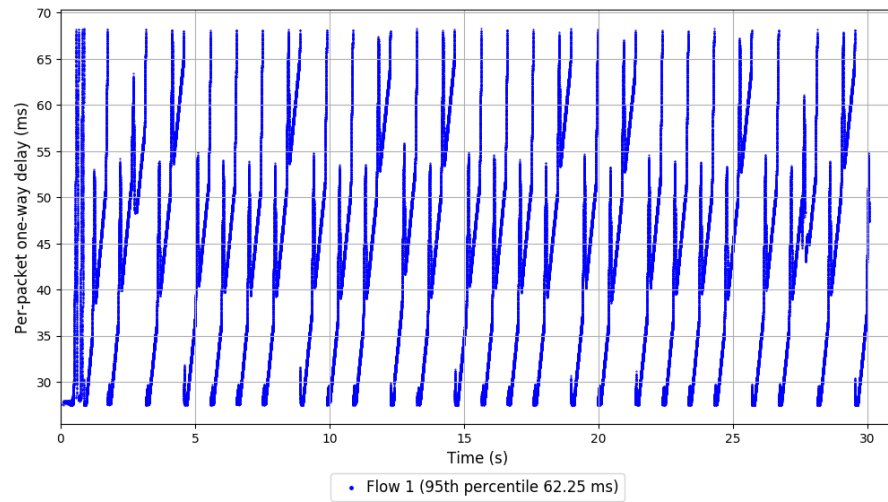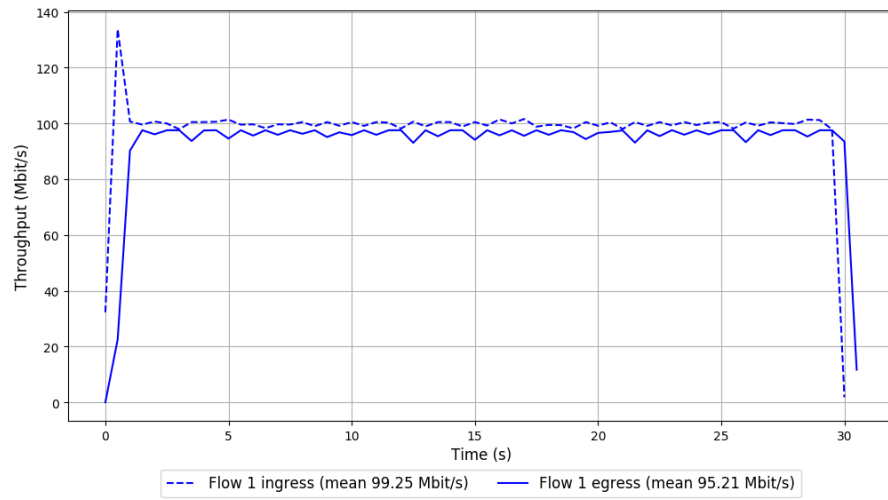

Flow 1 (95th percentile 62.89 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-05-30 11:19:36
End at: 2018-05-30 11:20:06
Local clock offset: 1.514 ms
Remote clock offset: 0.233 ms


# Below is generated by plot.py at 2018-05-30 11:59:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 65.174 ms
Loss rate: 4.02%
-- Flow 1:
Average throughput: 94.87 Mbit/s
95th percentile per-packet one-way delay: 65.174 ms
Loss rate: 4.02%
```

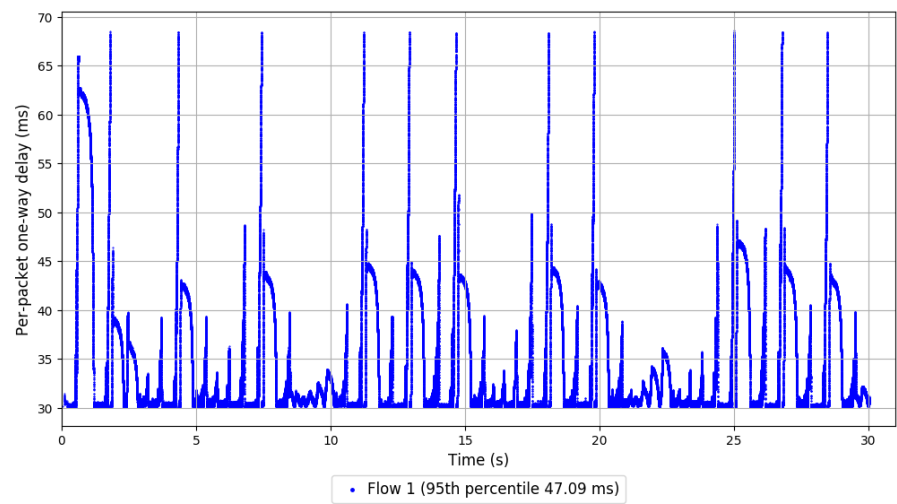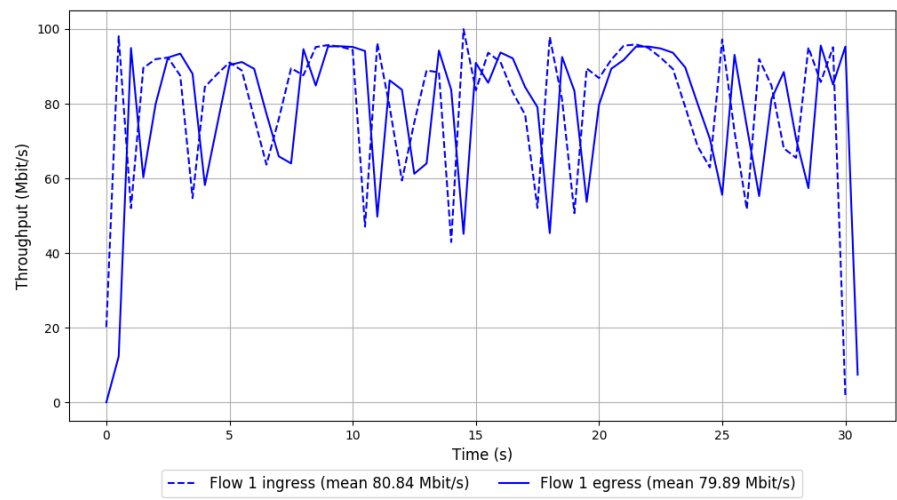Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 98.91 Mbit/s)   Flow 1 egress (mean 94.87 Mbit/s)

Flow 1 (95th percentile 65.17 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-05-30 11:40:29
End at: 2018-05-30 11:40:59
Local clock offset: 1.471 ms
Remote clock offset: -2.334 ms


# Below is generated by plot.py at 2018-05-30 11:59:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 62.248 ms
Loss rate: 4.01%
-- Flow 1:
Average throughput: 95.21 Mbit/s
95th percentile per-packet one-way delay: 62.248 ms
Loss rate: 4.01%
```
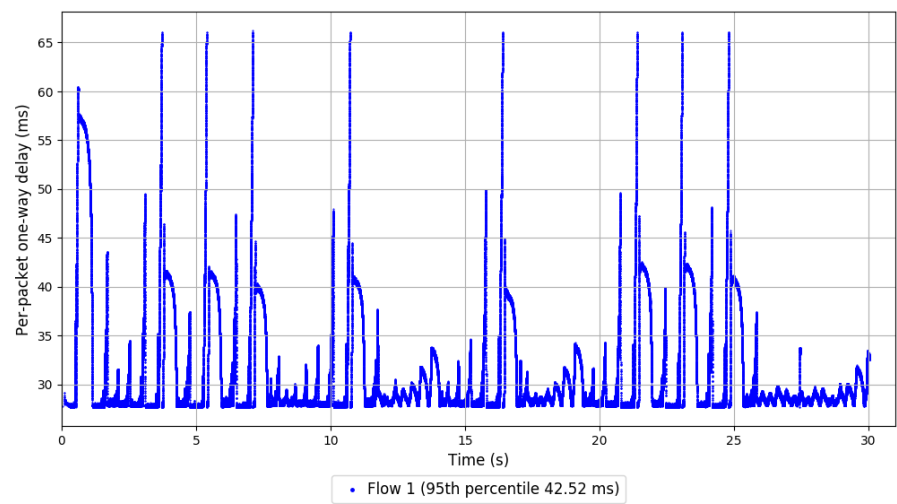
Run 10: Report of TCP BBR — Data Link

Flow 1 ingress (mean 99.25 Mbit/s)   Flow 1 egress (mean 95.21 Mbit/s)

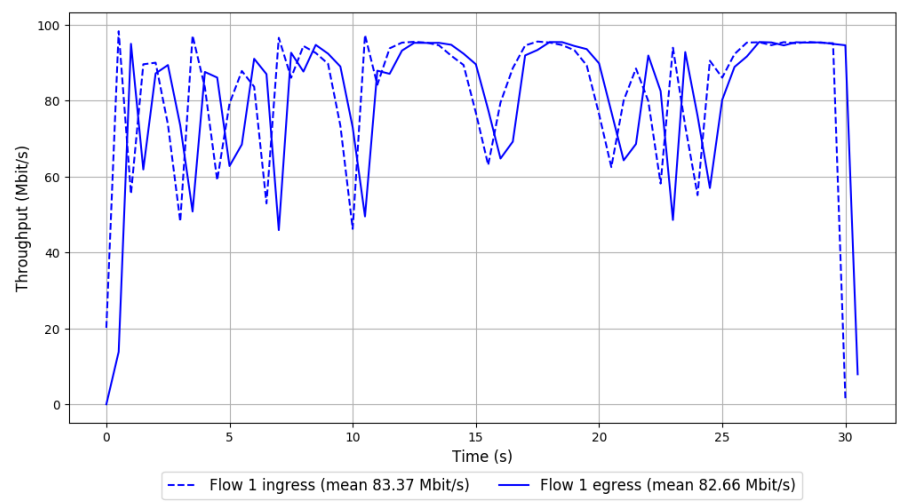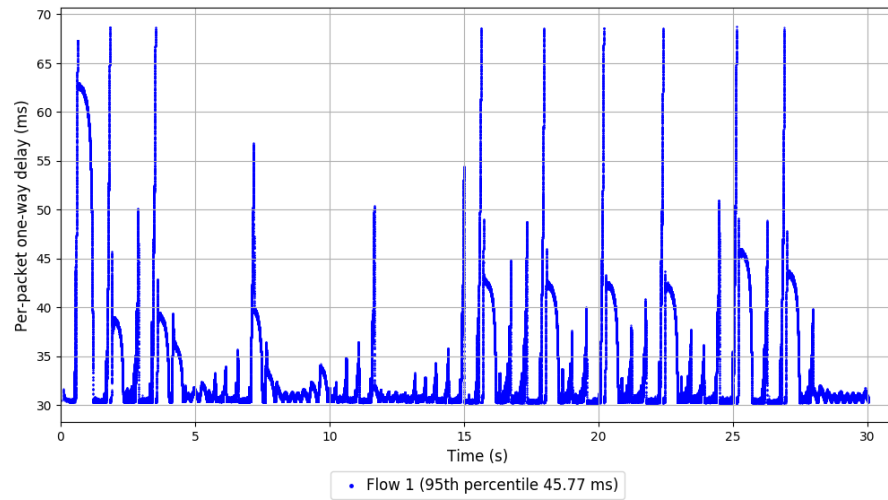• Flow 1 (95th percentile 62.25 ms)

```
Run 1: Statistics of Copa

Start at: 2018-05-30 08:41:20
End at: 2018-05-30 08:41:50
Local clock offset: 1.521 ms
Remote clock offset: -2.768 ms


# Below is generated by plot.py at 2018-05-30 12:00:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.89 Mbit/s
95th percentile per-packet one-way delay: 47.089 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 79.89 Mbit/s
95th percentile per-packet one-way delay: 47.089 ms
Loss rate: 1.16%
```

Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 80.84 Mbit/s)   Flow 1 egress (mean 79.89 Mbit/s)

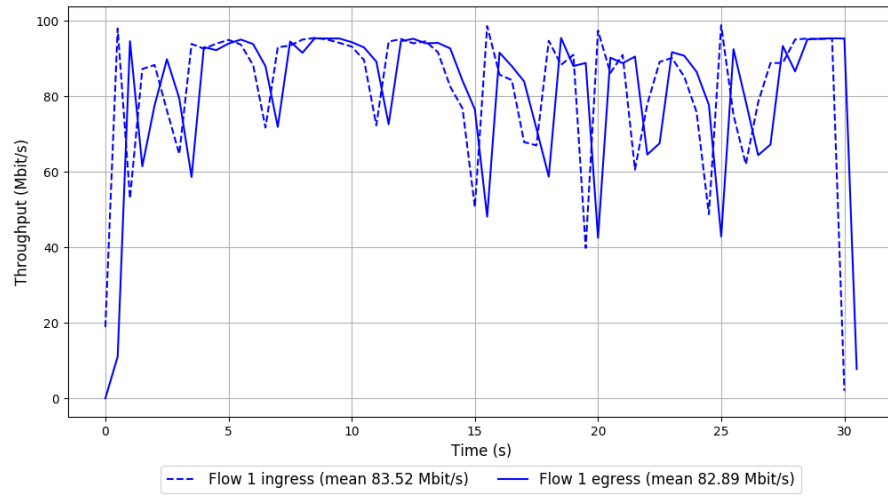• Flow 1 (95th percentile 47.09 ms)

```
Run 2: Statistics of Copa

Start at: 2018-05-30 09:02:15
End at: 2018-05-30 09:02:45
Local clock offset: 1.403 ms
Remote clock offset: -5.746 ms


# Below is generated by plot.py at 2018-05-30 12:00:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.66 Mbit/s
95th percentile per-packet one-way delay: 42.515 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 82.66 Mbit/s
95th percentile per-packet one-way delay: 42.515 ms
Loss rate: 0.84%
```

Run 2: Report of Copa — Data Link

```
Run 3: Statistics of Copa

Start at: 2018-05-30 09:23:09
End at: 2018-05-30 09:23:39
Local clock offset: 0.81 ms
Remote clock offset: -1.766 ms


# Below is generated by plot.py at 2018-05-30 12:00:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.89 Mbit/s
95th percentile per-packet one-way delay: 45.773 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 82.89 Mbit/s
95th percentile per-packet one-way delay: 45.773 ms
Loss rate: 0.76%
```
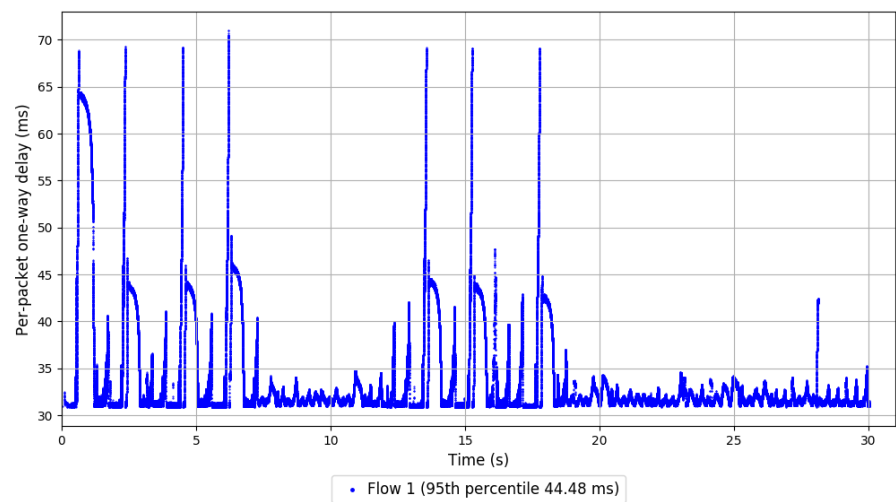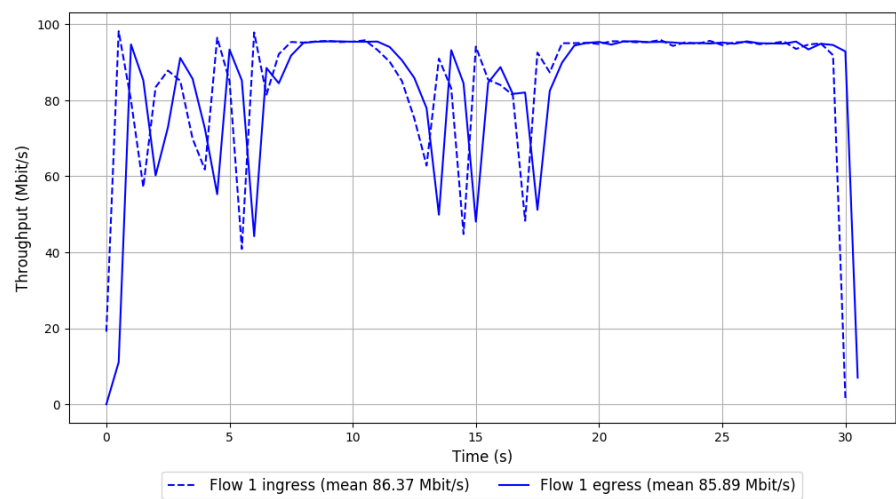
Run 3: Report of Copa — Data Link

Flow 1 ingress (mean 83.52 Mbit/s) --- Flow 1 egress (mean 82.89 Mbit/s)

• Flow 1 (95th percentile 45.77 ms)

```
Run 4: Statistics of Copa

Start at: 2018-05-30 09:44:07
End at: 2018-05-30 09:44:37
Local clock offset: 1.192 ms
Remote clock offset: 0.913 ms


# Below is generated by plot.py at 2018-05-30 12:00:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.89 Mbit/s
95th percentile per-packet one-way delay: 44.479 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 85.89 Mbit/s
95th percentile per-packet one-way delay: 44.479 ms
Loss rate: 0.56%
```
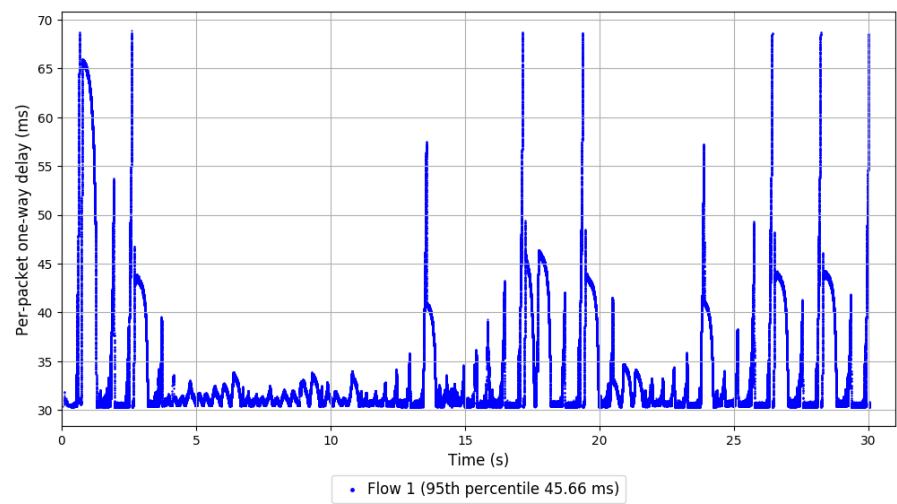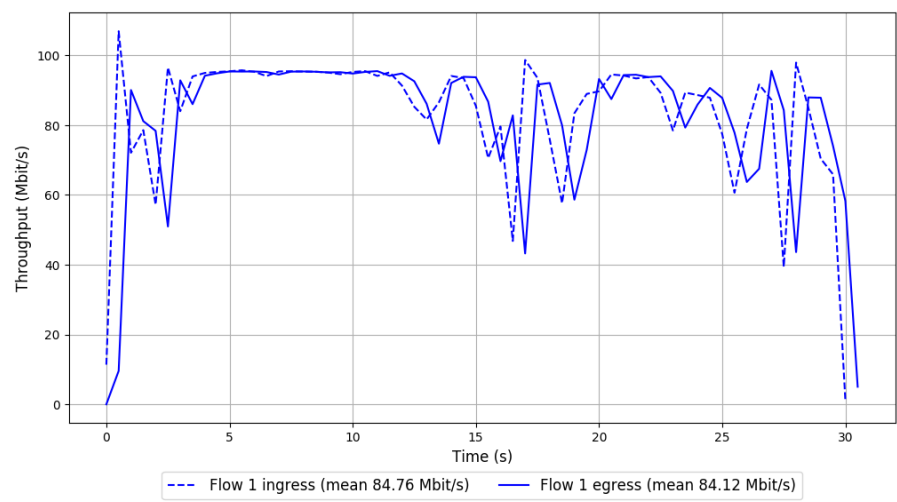
Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 86.37 Mbit/s)   Flow 1 egress (mean 85.89 Mbit/s)

Flow 1 (95th percentile 44.48 ms)

```
Run 5: Statistics of Copa

Start at: 2018-05-30 10:05:03
End at: 2018-05-30 10:05:33
Local clock offset: 1.636 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-05-30 12:00:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.12 Mbit/s
95th percentile per-packet one-way delay: 45.662 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 84.12 Mbit/s
95th percentile per-packet one-way delay: 45.662 ms
Loss rate: 0.75%
```
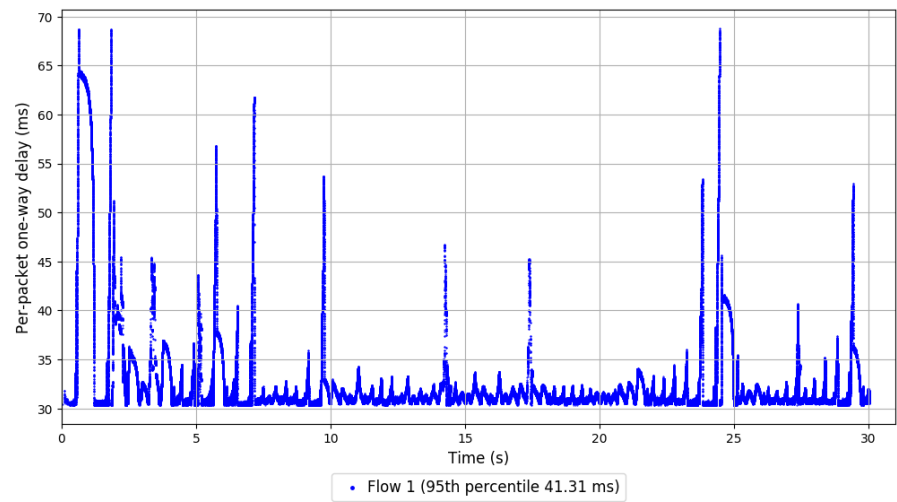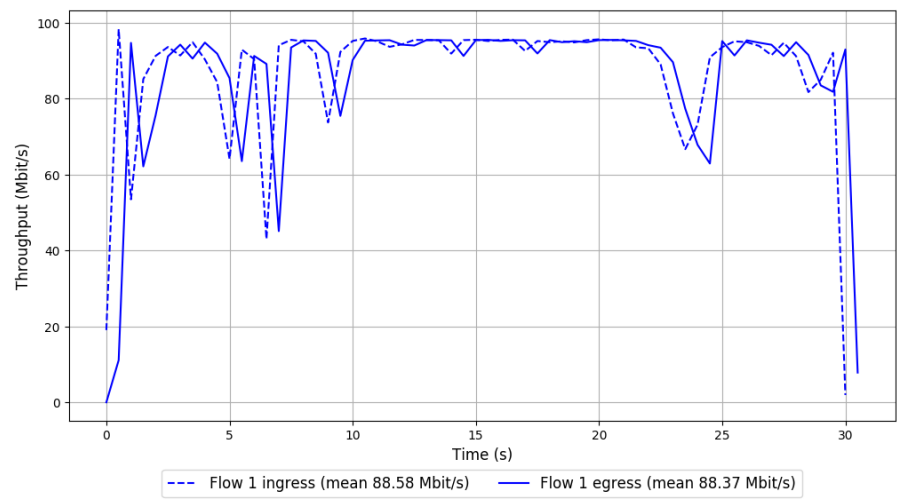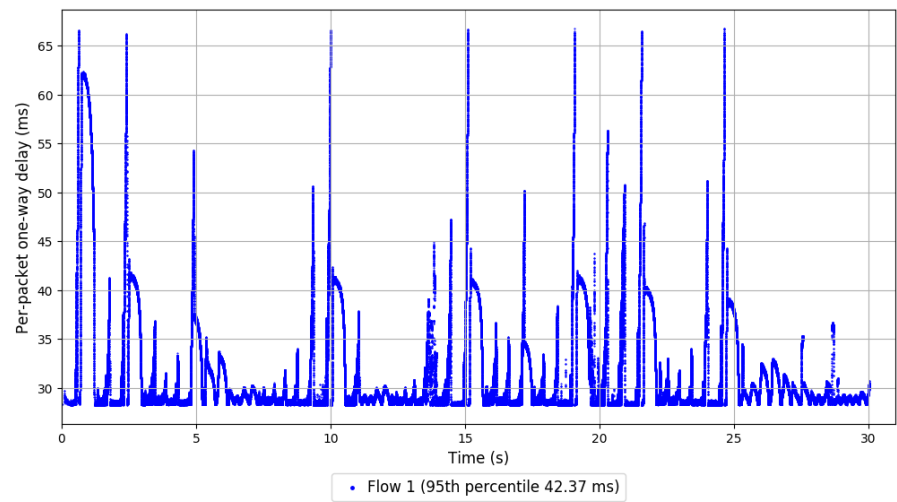
Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 84.76 Mbit/s) ----   Flow 1 egress (mean 84.12 Mbit/s) ——
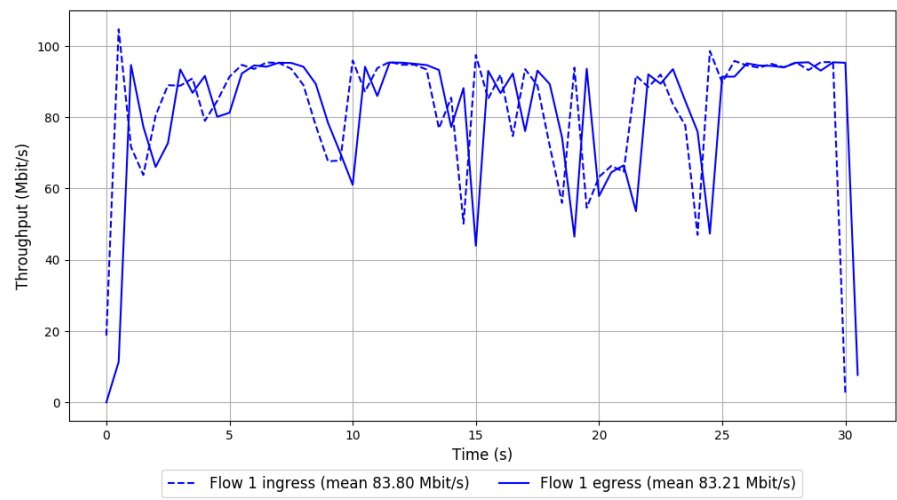

• Flow 1 (95th percentile 45.66 ms)

```
Run 6: Statistics of Copa

Start at: 2018-05-30 10:26:00
End at: 2018-05-30 10:26:30
Local clock offset: 0.91 ms
Remote clock offset: 0.134 ms


# Below is generated by plot.py at 2018-05-30 12:00:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 41.308 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 41.308 ms
Loss rate: 0.24%
```
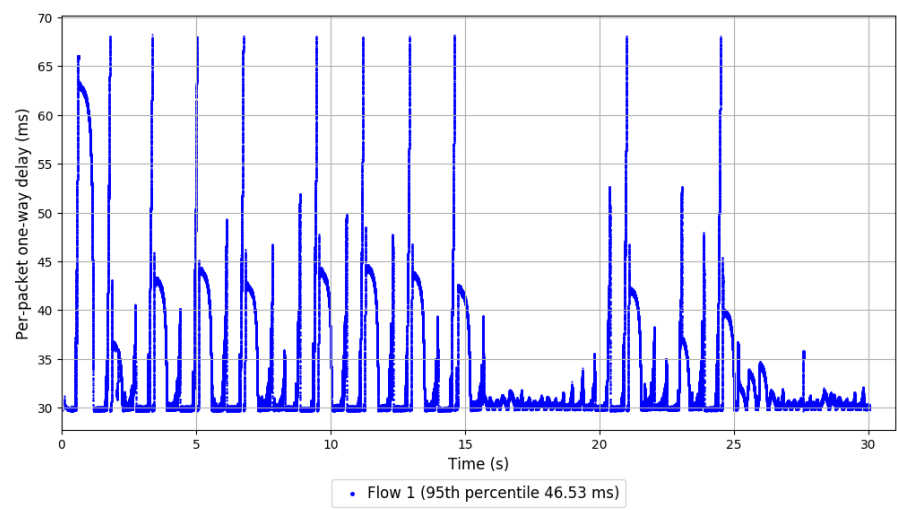
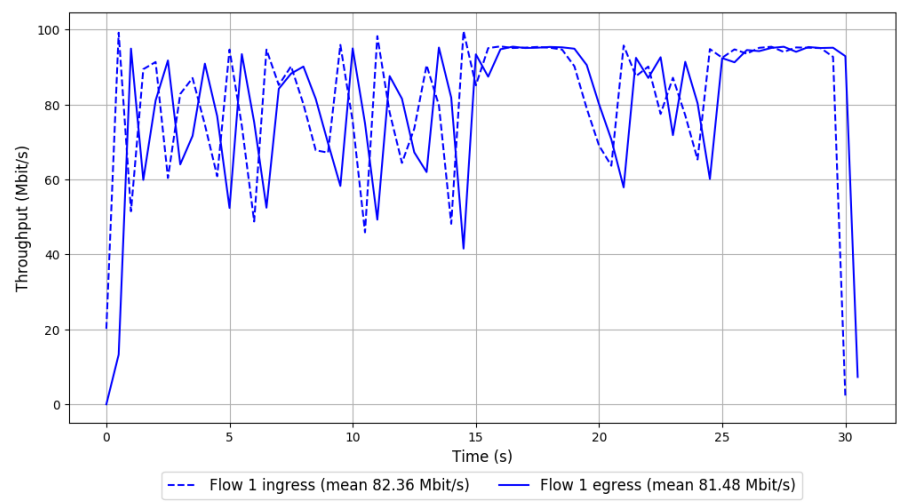## Run 6: Report of Copa — Data Link

```
Run 7: Statistics of Copa

Start at: 2018-05-30 10:46:52
End at: 2018-05-30 10:47:22
Local clock offset: 0.919 ms
Remote clock offset: -2.445 ms


# Below is generated by plot.py at 2018-05-30 12:01:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.21 Mbit/s
95th percentile per-packet one-way delay: 42.366 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 83.21 Mbit/s
95th percentile per-packet one-way delay: 42.366 ms
Loss rate: 0.70%
```
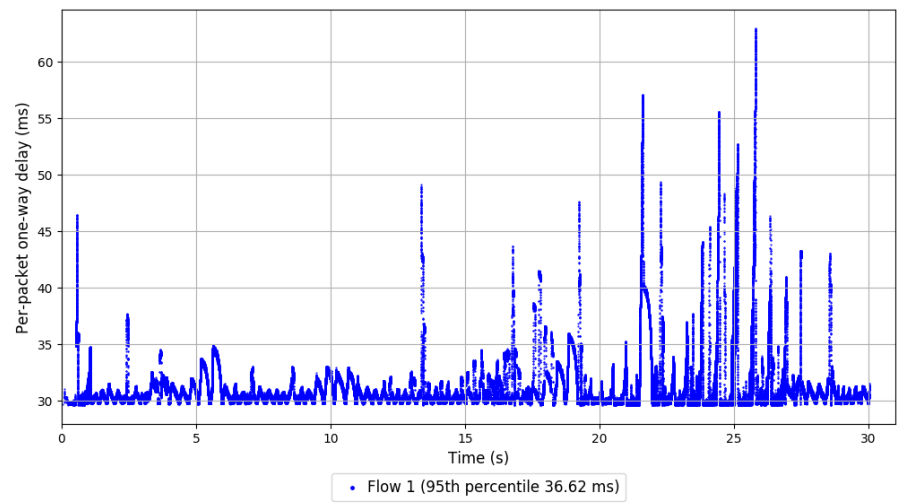
Run 7: Report of Copa — Data Link

Flow 1 ingress (mean 83.80 Mbit/s)   Flow 1 egress (mean 83.21 Mbit/s)

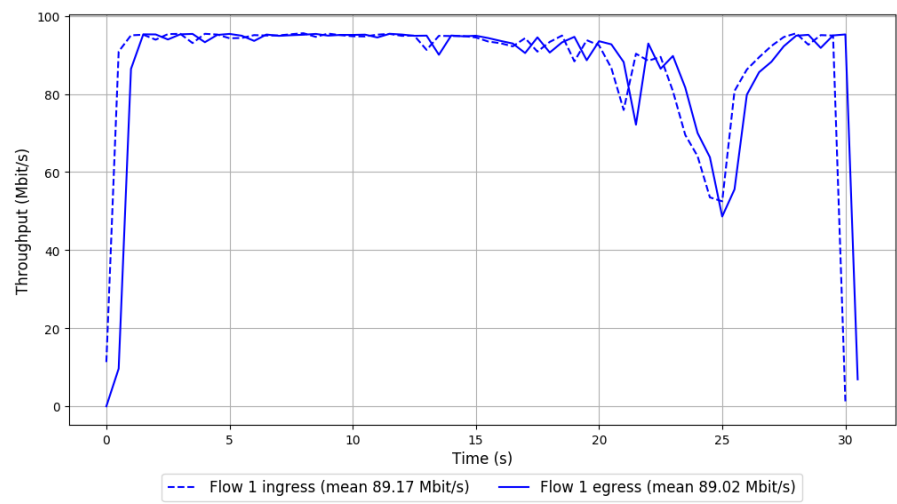Flow 1 (95th percentile 42.37 ms)

```
Run 8: Statistics of Copa

Start at: 2018-05-30 11:07:47
End at: 2018-05-30 11:08:17
Local clock offset: 0.999 ms
Remote clock offset: -0.272 ms


# Below is generated by plot.py at 2018-05-30 12:01:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.48 Mbit/s
95th percentile per-packet one-way delay: 46.527 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 81.48 Mbit/s
95th percentile per-packet one-way delay: 46.527 ms
Loss rate: 1.06%
```

Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: 2018-05-30 11:28:39
End at: 2018-05-30 11:29:09
Local clock offset: 1.771 ms
Remote clock offset: -0.196 ms


# Below is generated by plot.py at 2018-05-30 12:02:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 36.615 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 89.02 Mbit/s
95th percentile per-packet one-way delay: 36.615 ms
Loss rate: 0.17%
```
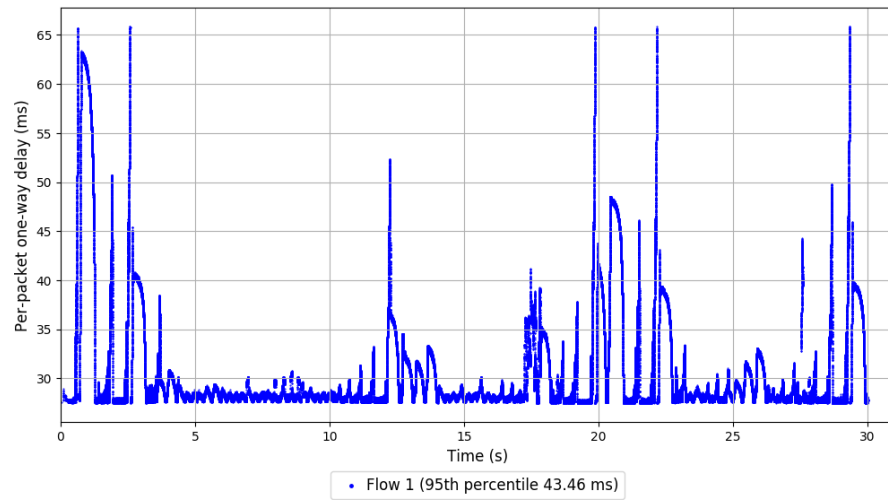
Run 9: Report of Copa — Data Link

```
Run 10: Statistics of Copa

Start at: 2018-05-30 11:49:33
End at: 2018-05-30 11:50:03
Local clock offset: 0.992 ms
Remote clock offset: -2.416 ms


# Below is generated by plot.py at 2018-05-30 12:02:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 43.461 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 43.461 ms
Loss rate: 0.62%
```
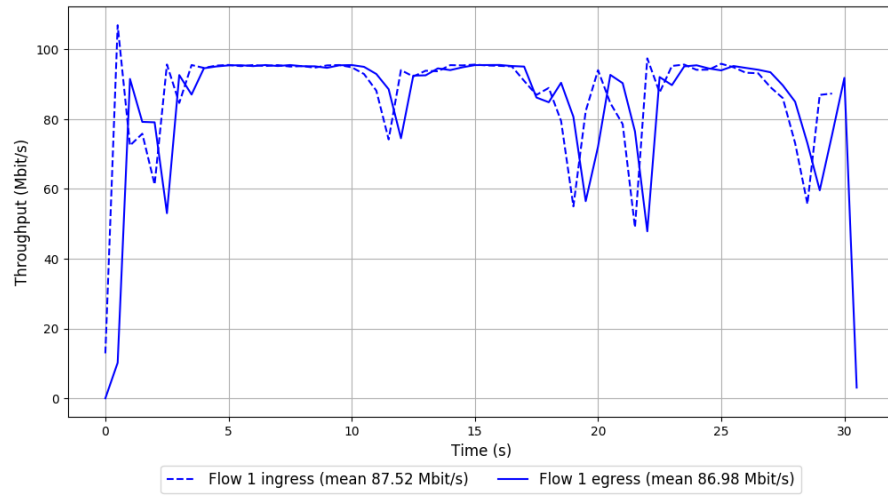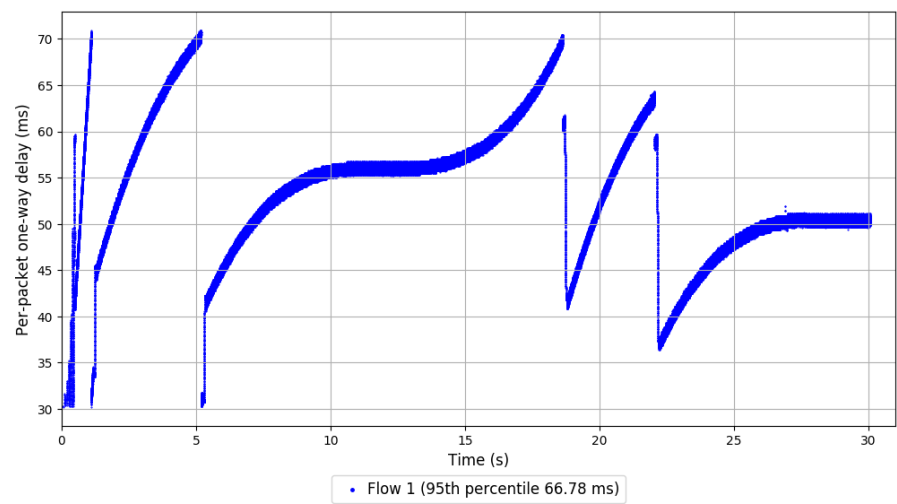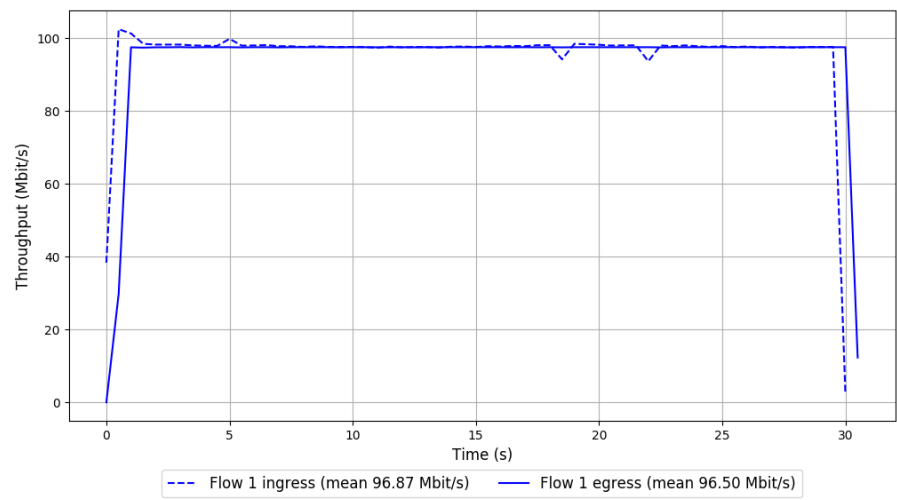
Run 10: Report of Copa — Data Link

Flow 1 ingress (mean 87.52 Mbit/s) — — —   Flow 1 egress (mean 86.98 Mbit/s) ———

• Flow 1 (95th percentile 43.46 ms)

```
Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 08:37:28
End at: 2018-05-30 08:37:58
Local clock offset: 1.511 ms
Remote clock offset: -2.579 ms


# Below is generated by plot.py at 2018-05-30 12:02:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 66.785 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 96.50 Mbit/s
95th percentile per-packet one-way delay: 66.785 ms
Loss rate: 0.32%
```

Run 1: Report of TCP Cubic — Data Link

```
Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 08:58:24
End at: 2018-05-30 08:58:54
Local clock offset: 1.487 ms
Remote clock offset: -5.714 ms


# Below is generated by plot.py at 2018-05-30 12:02:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.89 Mbit/s
95th percentile per-packet one-way delay: 58.414 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 86.89 Mbit/s
95th percentile per-packet one-way delay: 58.414 ms
Loss rate: 0.40%
```
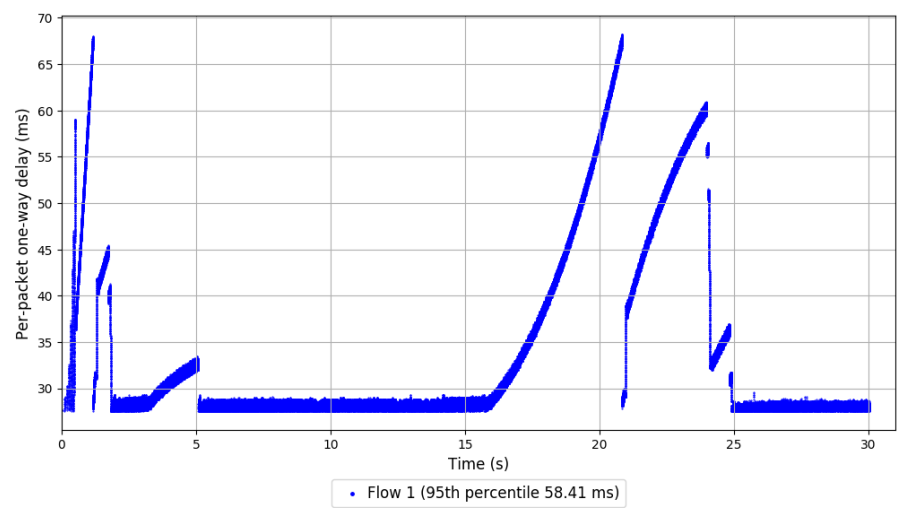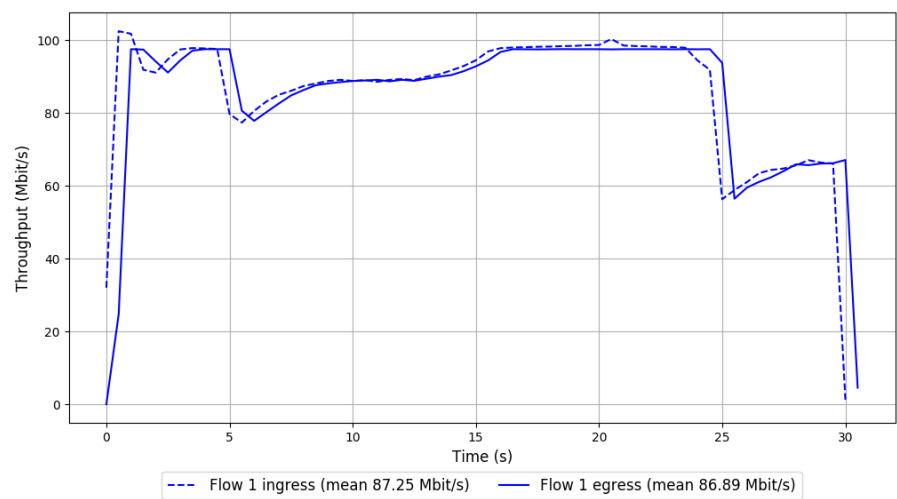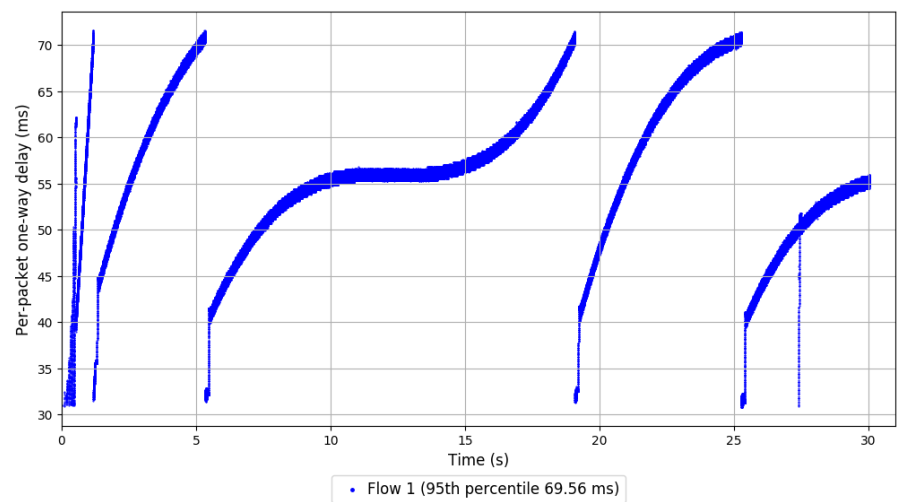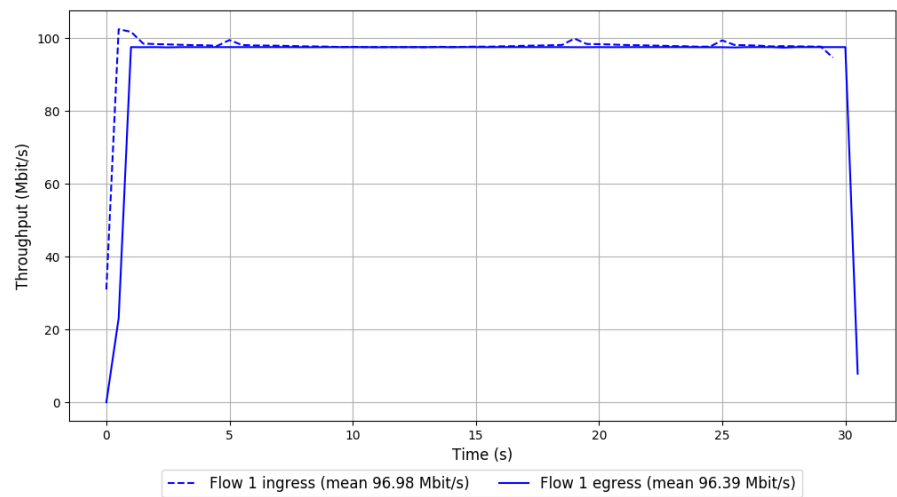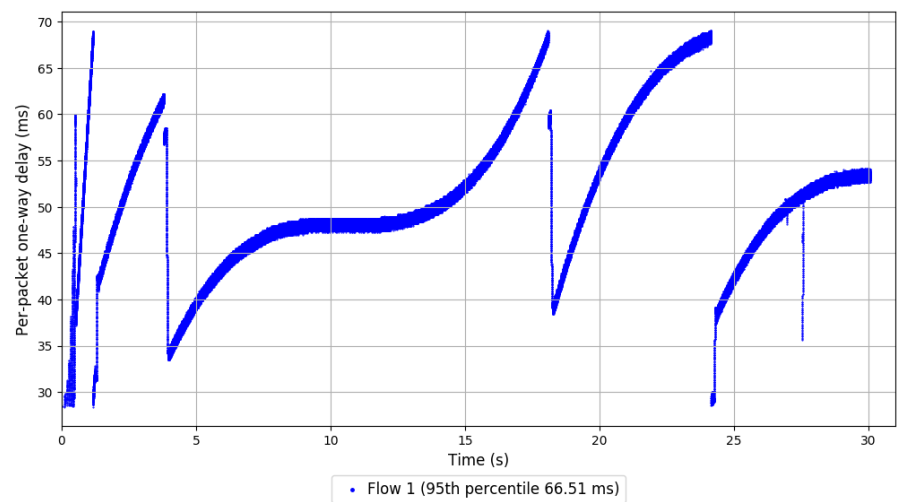
Run 2: Report of TCP Cubic — Data Link

```
Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 09:19:16
End at: 2018-05-30 09:19:46
Local clock offset: 0.774 ms
Remote clock offset: -2.236 ms


# Below is generated by plot.py at 2018-05-30 12:02:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 69.561 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 96.39 Mbit/s
95th percentile per-packet one-way delay: 69.561 ms
Loss rate: 0.53%
```
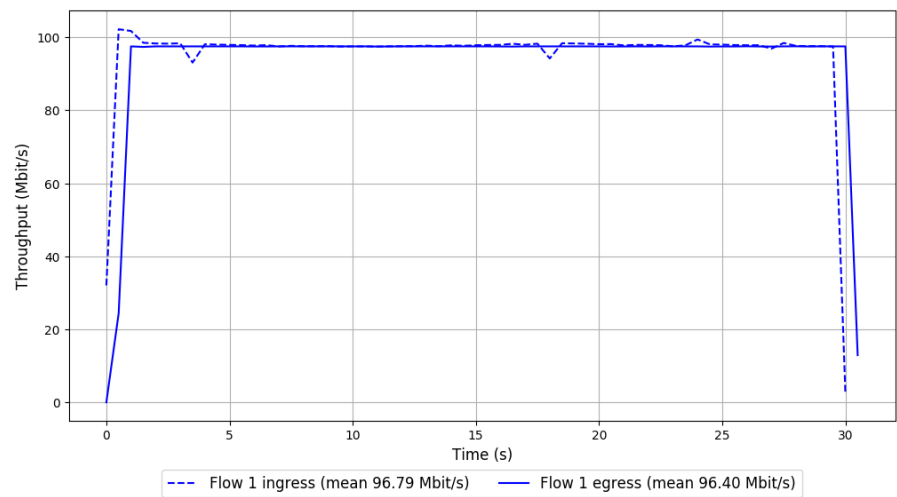
Run 3: Report of TCP Cubic — Data Link

```
Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 09:40:13
End at: 2018-05-30 09:40:43
Local clock offset: 0.958 ms
Remote clock offset: -1.834 ms


# Below is generated by plot.py at 2018-05-30 12:02:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 66.514 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 96.40 Mbit/s
95th percentile per-packet one-way delay: 66.514 ms
Loss rate: 0.32%
```

Run 4: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 96.79 Mbit/s) ---- Flow 1 egress (mean 96.40 Mbit/s) ——
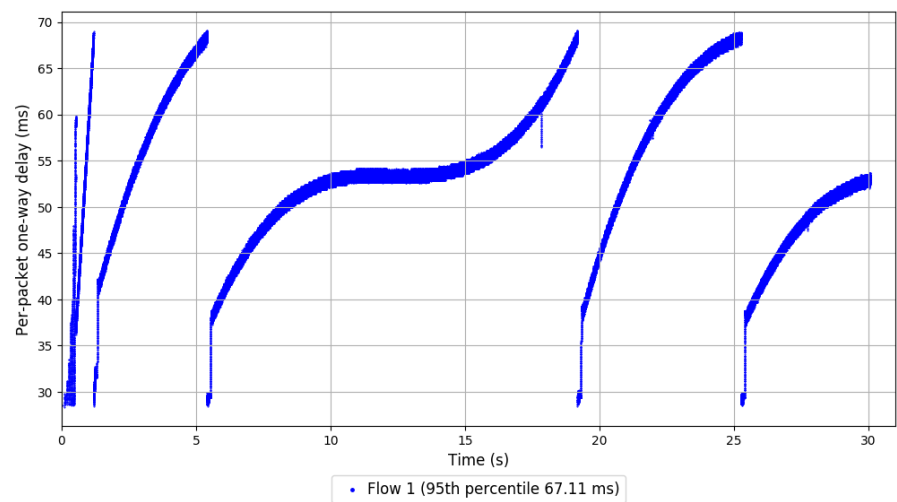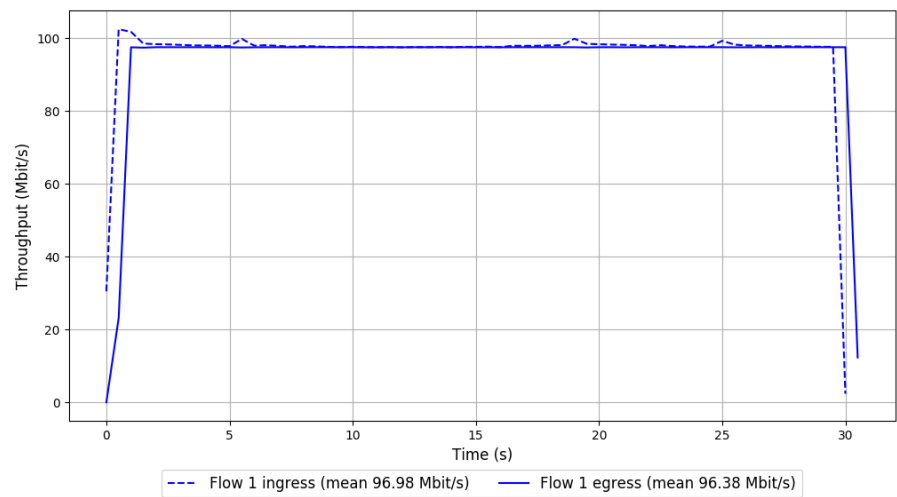

Flow 1 (95th percentile 66.51 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 10:01:11
End at: 2018-05-30 10:01:41
Local clock offset: 1.596 ms
Remote clock offset: -1.872 ms


# Below is generated by plot.py at 2018-05-30 12:02:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 67.111 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 67.111 ms
Loss rate: 0.55%
```
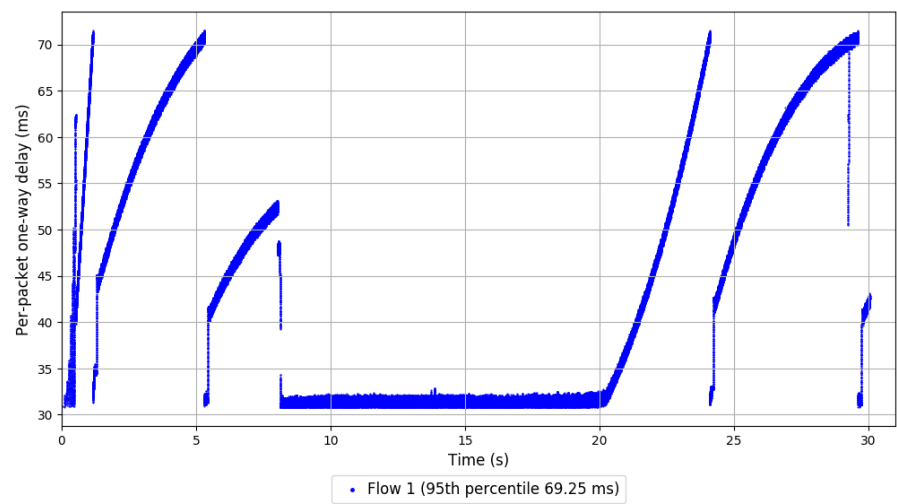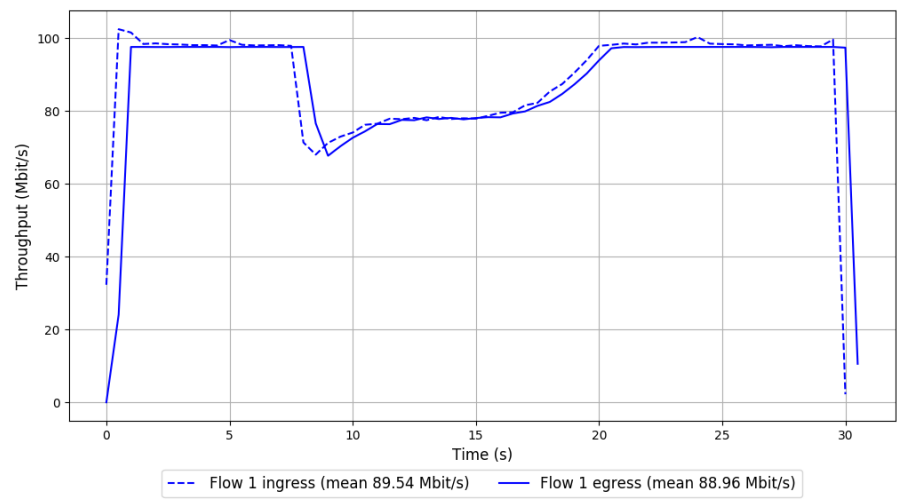
Run 5: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 96.98 Mbit/s)   Flow 1 egress (mean 96.38 Mbit/s)
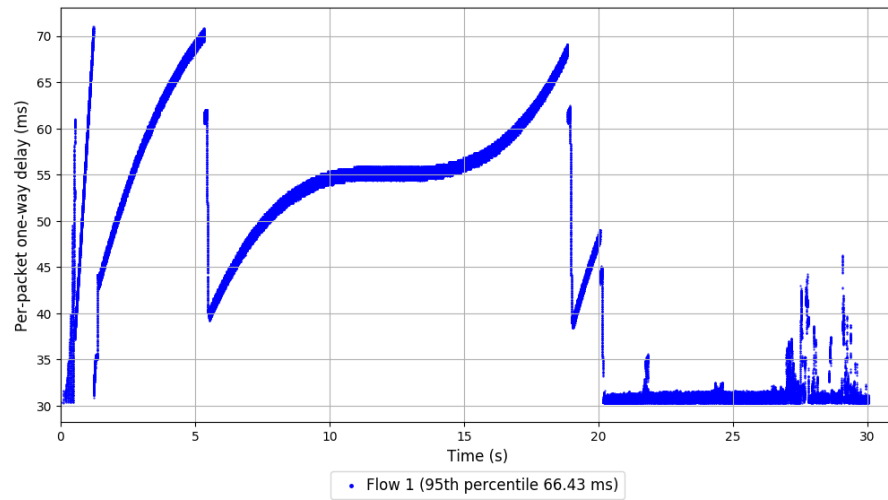

Flow 1 (95th percentile 67.11 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 10:22:08
End at: 2018-05-30 10:22:38
Local clock offset: 0.974 ms
Remote clock offset: 0.693 ms


# Below is generated by plot.py at 2018-05-30 12:02:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.96 Mbit/s
95th percentile per-packet one-way delay: 69.251 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 88.96 Mbit/s
95th percentile per-packet one-way delay: 69.251 ms
Loss rate: 0.61%
```

Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 89.54 Mbit/s) --- Flow 1 egress (mean 88.96 Mbit/s)

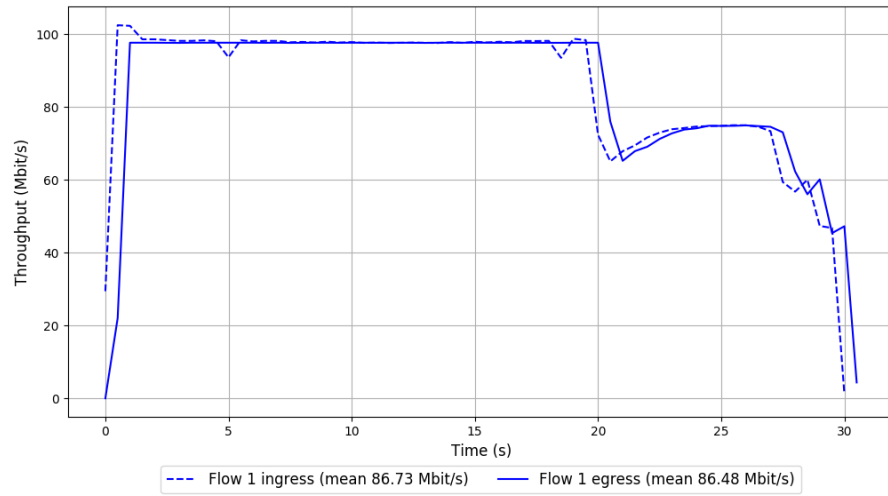
Flow 1 (95th percentile 69.25 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 10:43:01
End at: 2018-05-30 10:43:31
Local clock offset: 0.883 ms
Remote clock offset: -0.352 ms


# Below is generated by plot.py at 2018-05-30 12:02:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.48 Mbit/s
95th percentile per-packet one-way delay: 66.428 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 86.48 Mbit/s
95th percentile per-packet one-way delay: 66.428 ms
Loss rate: 0.27%
```
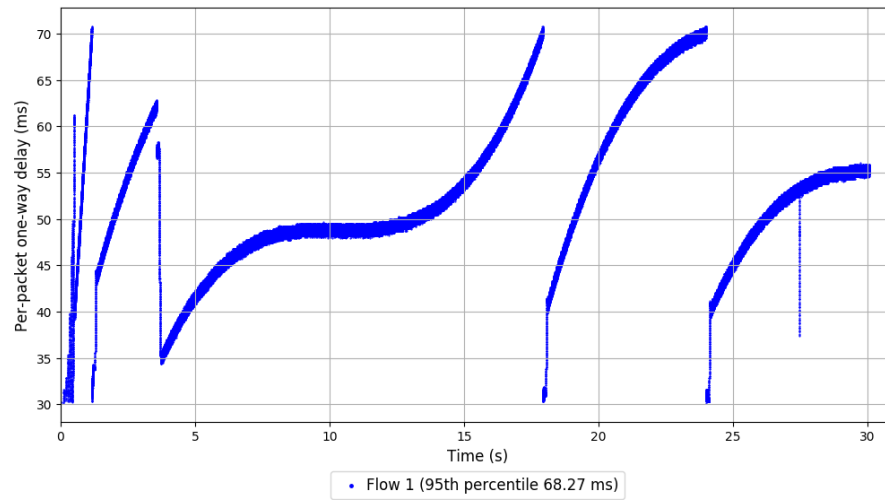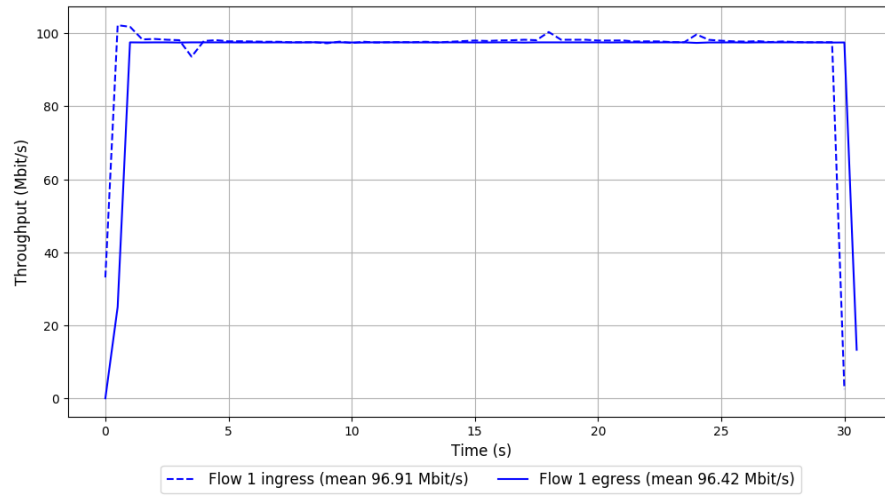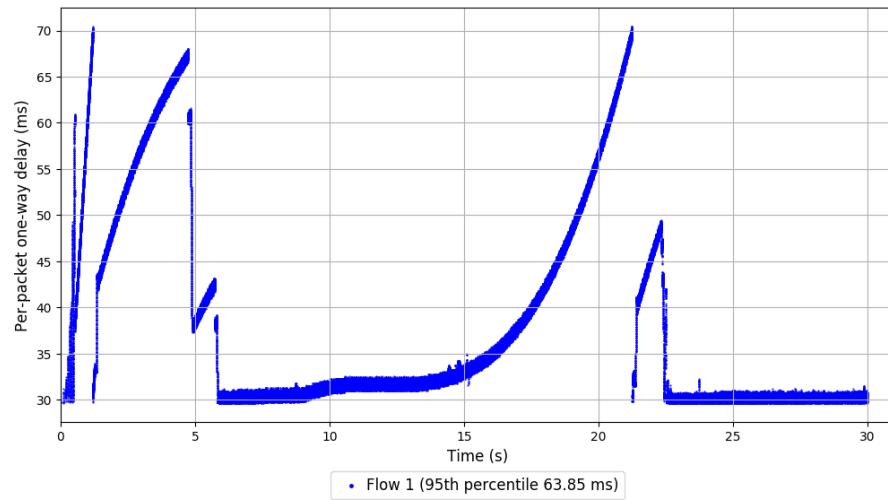
Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 86.73 Mbit/s) Flow 1 egress (mean 86.48 Mbit/s)

Flow 1 (95th percentile 66.43 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 11:03:54
End at: 2018-05-30 11:04:24
Local clock offset: 0.814 ms
Remote clock offset: 0.149 ms


# Below is generated by plot.py at 2018-05-30 12:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 68.266 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 96.42 Mbit/s
95th percentile per-packet one-way delay: 68.266 ms
Loss rate: 0.42%
```
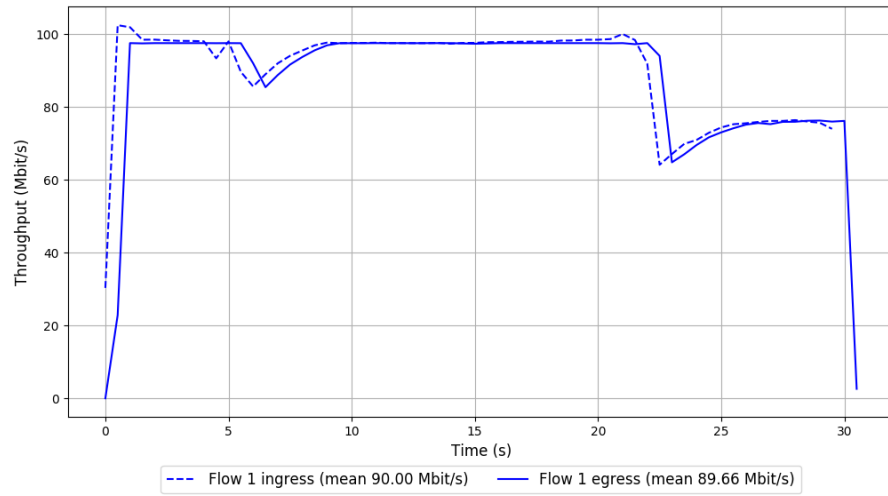
Run 8: Report of TCP Cubic — Data Link

```
Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 11:24:46
End at: 2018-05-30 11:25:16
Local clock offset: 1.709 ms
Remote clock offset: -0.198 ms


# Below is generated by plot.py at 2018-05-30 12:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.66 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 89.66 Mbit/s
95th percentile per-packet one-way delay: 63.850 ms
Loss rate: 0.37%
```
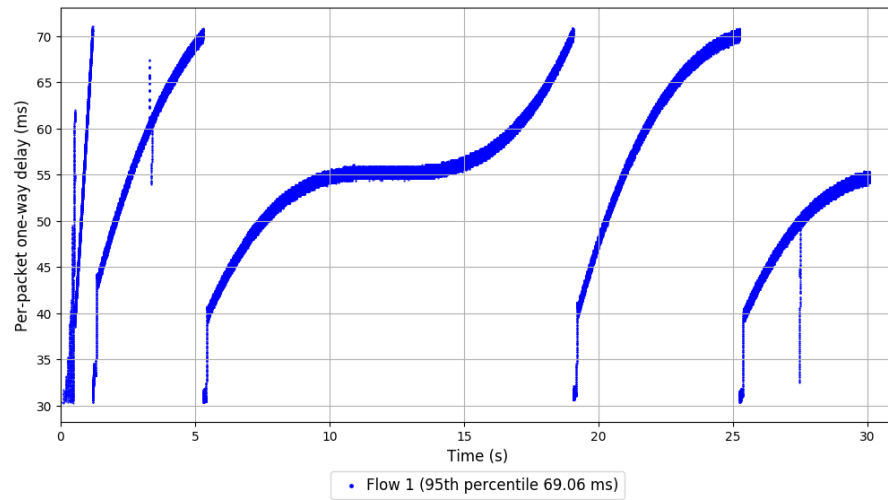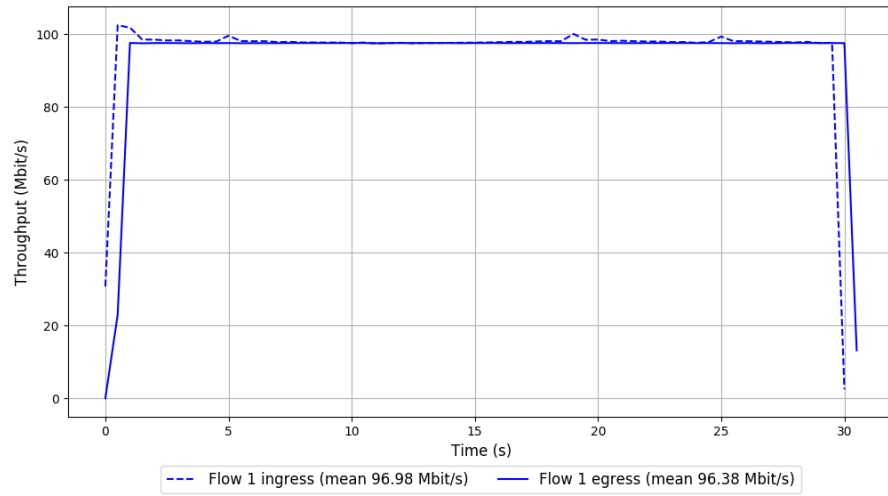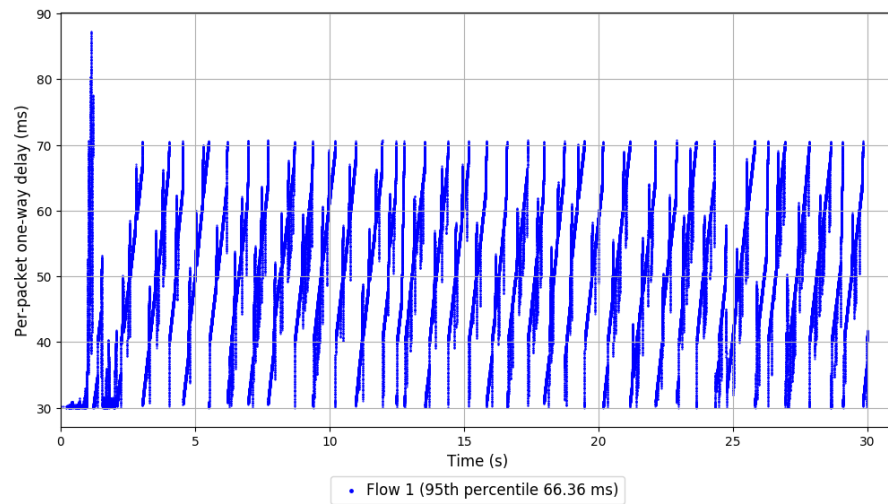
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 90.00 Mbit/s)　　Flow 1 egress (mean 89.66 Mbit/s)

Flow 1 (95th percentile 63.85 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 11:45:40
End at: 2018-05-30 11:46:10
Local clock offset: 1.147 ms
Remote clock offset: -0.298 ms


# Below is generated by plot.py at 2018-05-30 12:02:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 69.059 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 96.38 Mbit/s
95th percentile per-packet one-way delay: 69.059 ms
Loss rate: 0.54%
```

Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 96.98 Mbit/s) --- Flow 1 egress (mean 96.38 Mbit/s)
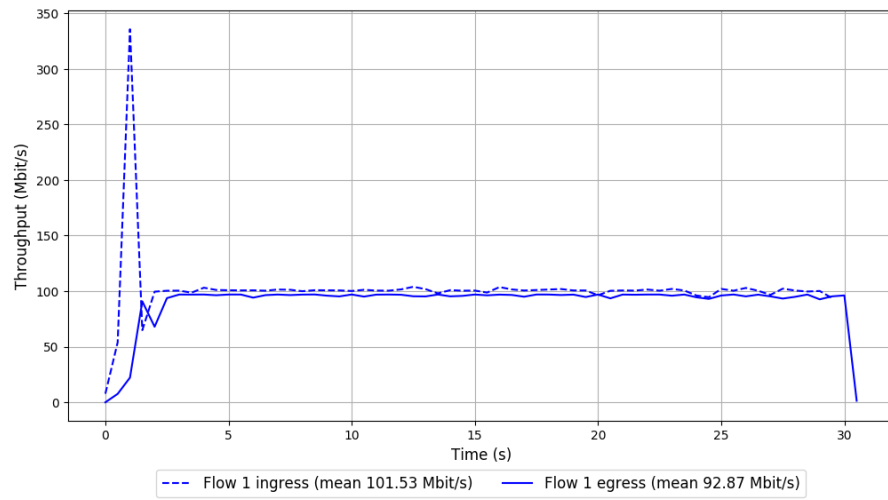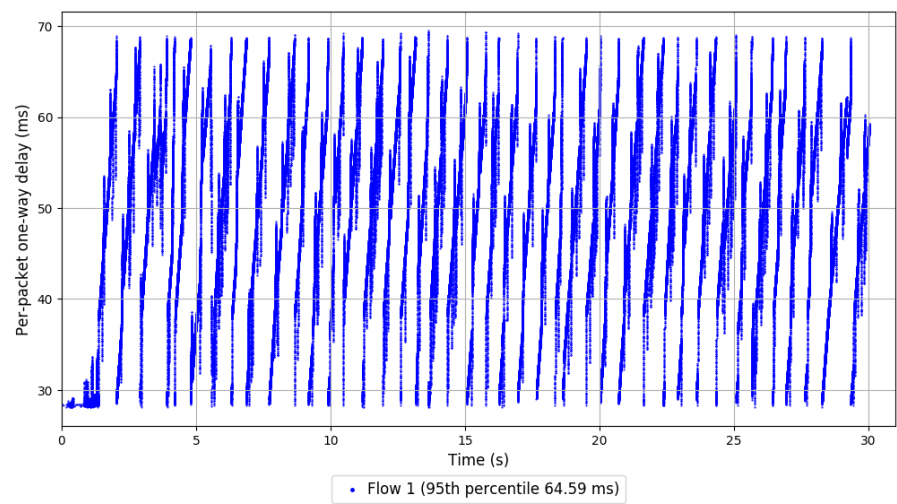

Flow 1 (95th percentile 69.06 ms)

```
Run 1: Statistics of FillP

Start at: 2018-05-30 08:43:57
End at: 2018-05-30 08:44:27
Local clock offset: 1.521 ms
Remote clock offset: -2.781 ms


# Below is generated by plot.py at 2018-05-30 12:03:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 66.364 ms
Loss rate: 8.50%
-- Flow 1:
Average throughput: 92.87 Mbit/s
95th percentile per-packet one-way delay: 66.364 ms
Loss rate: 8.50%
```

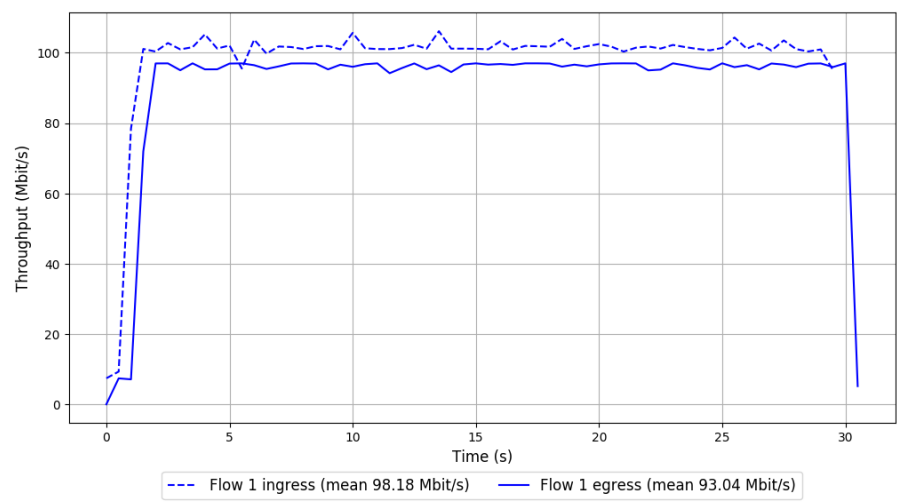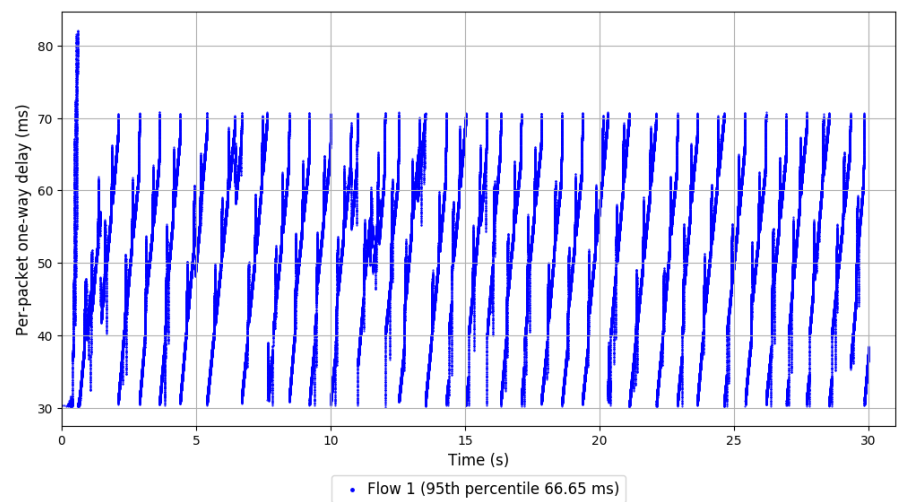Run 1: Report of FillP — Data Link

```
Run 2: Statistics of FillP

Start at: 2018-05-30 09:04:51
End at: 2018-05-30 09:05:21
Local clock offset: 1.505 ms
Remote clock offset: -5.809 ms


# Below is generated by plot.py at 2018-05-30 12:03:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 64.587 ms
Loss rate: 5.15%
-- Flow 1:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 64.587 ms
Loss rate: 5.15%
```

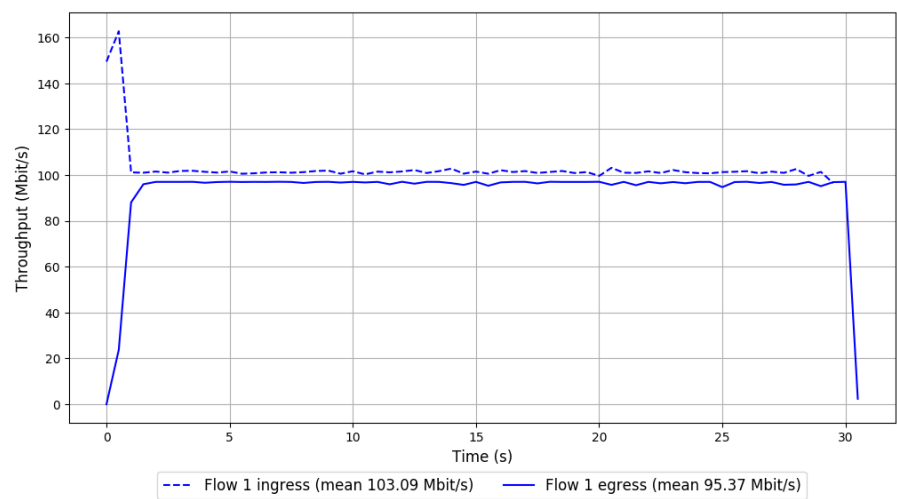Run 2: Report of FillP — Data Link

```
Run 3: Statistics of FillP

Start at: 2018-05-30 09:25:45
End at: 2018-05-30 09:26:15
Local clock offset: 0.748 ms
Remote clock offset: -1.289 ms


# Below is generated by plot.py at 2018-05-30 12:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 66.649 ms
Loss rate: 7.46%
-- Flow 1:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 66.649 ms
Loss rate: 7.46%
```
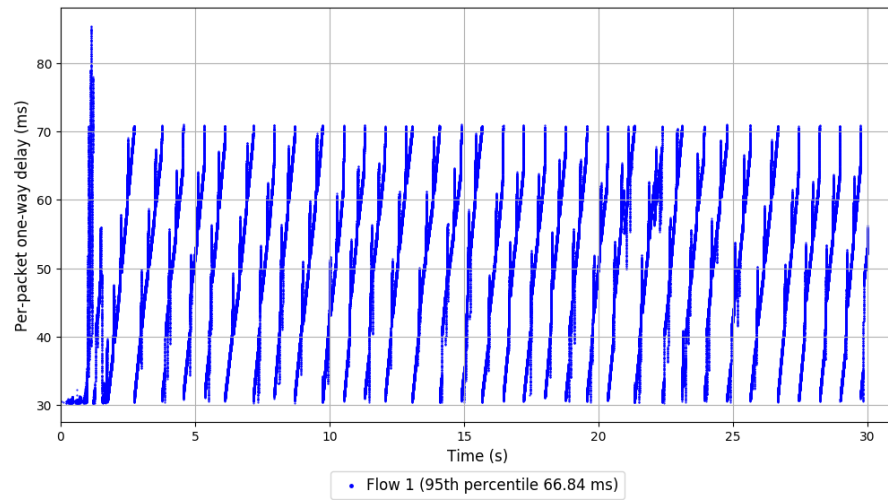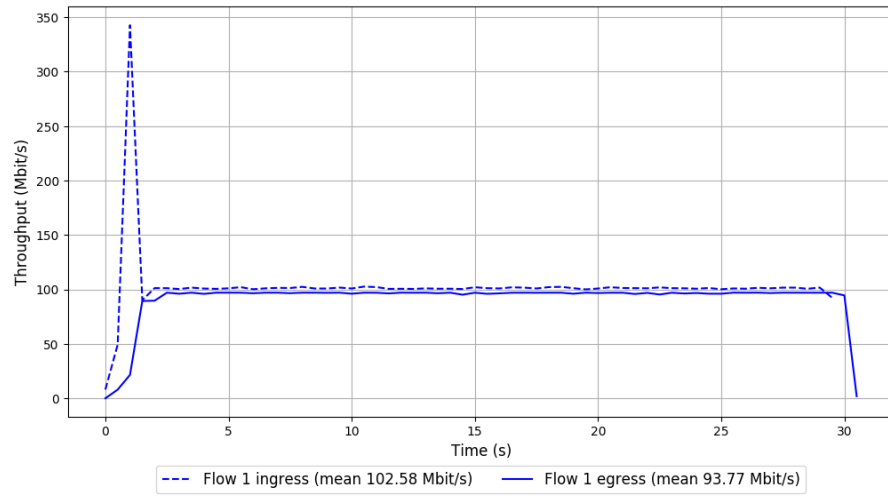
Run 3: Report of FillP — Data Link

Flow 1 ingress (mean 103.09 Mbit/s) --- Flow 1 egress (mean 95.37 Mbit/s)

Flow 1 (95th percentile 66.65 ms)

```
Run 4: Statistics of FillP

Start at: 2018-05-30 09:46:44
End at: 2018-05-30 09:47:14
Local clock offset: 1.206 ms
Remote clock offset: 0.564 ms


# Below is generated by plot.py at 2018-05-30 12:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 66.841 ms
Loss rate: 8.52%
-- Flow 1:
Average throughput: 93.77 Mbit/s
95th percentile per-packet one-way delay: 66.841 ms
Loss rate: 8.52%
```
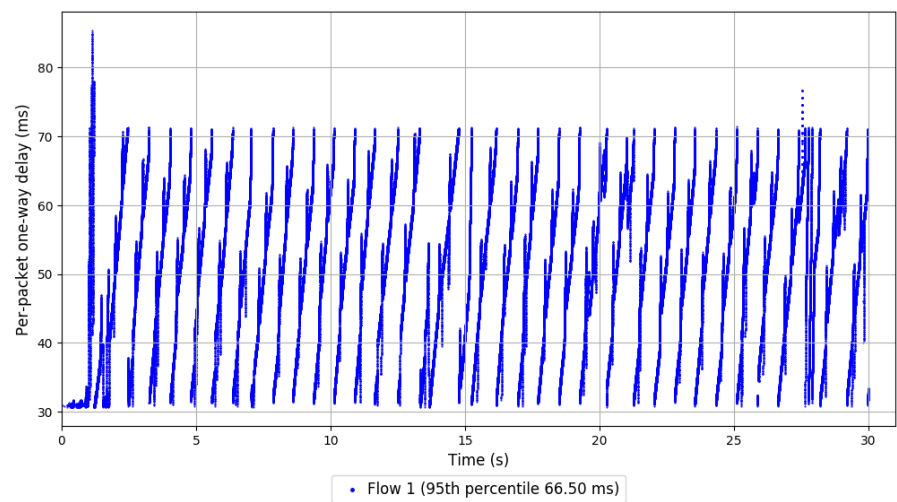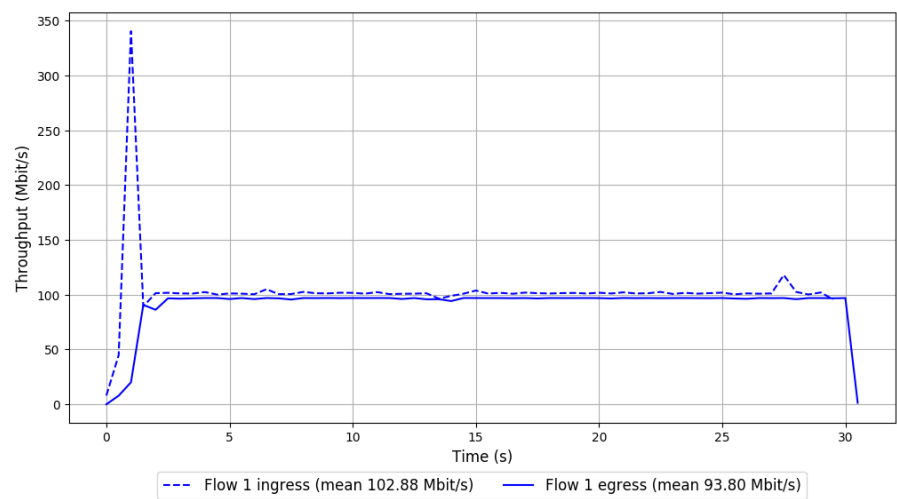
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 102.58 Mbit/s)   Flow 1 egress (mean 93.77 Mbit/s)

Flow 1 (95th percentile 66.84 ms)

```
Run 5: Statistics of FillP

Start at: 2018-05-30 10:07:39
End at: 2018-05-30 10:08:09
Local clock offset: 1.552 ms
Remote clock offset: 0.592 ms


# Below is generated by plot.py at 2018-05-30 12:03:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 66.496 ms
Loss rate: 8.82%
-- Flow 1:
Average throughput: 93.80 Mbit/s
95th percentile per-packet one-way delay: 66.496 ms
Loss rate: 8.82%
```
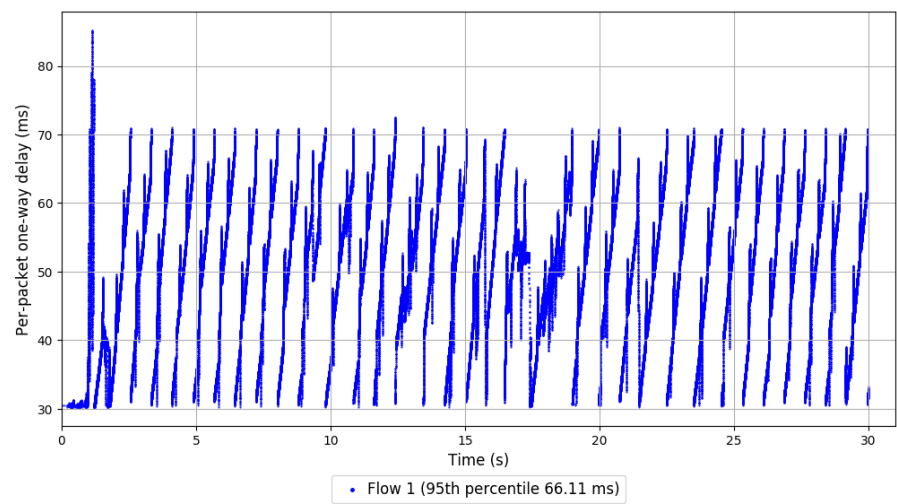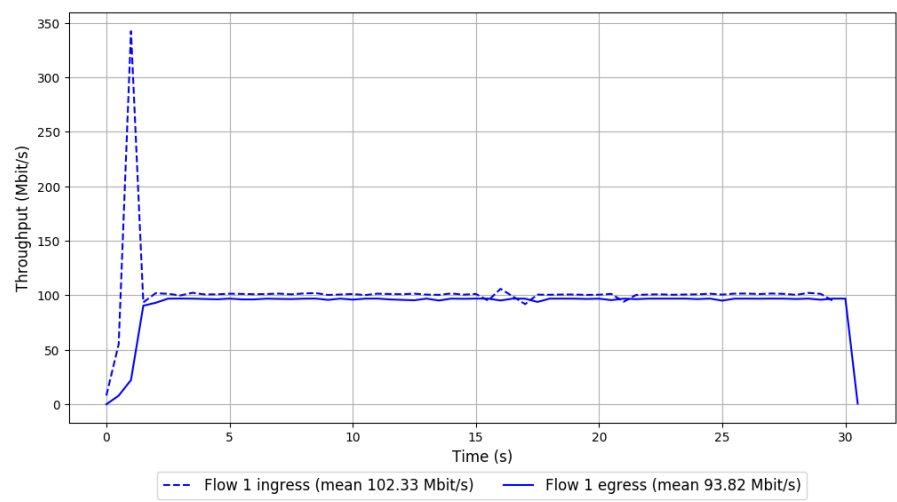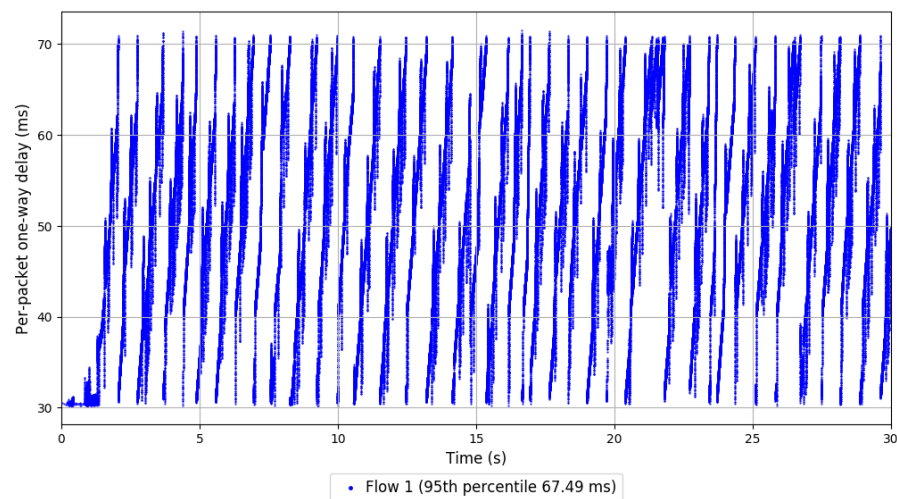
Run 5: Report of FillP — Data Link

Flow 1 ingress (mean 102.88 Mbit/s)   Flow 1 egress (mean 93.80 Mbit/s)

Flow 1 (95th percentile 66.50 ms)

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```
Run 6: Statistics of FillP

Start at: 2018-05-30 10:28:35
End at: 2018-05-30 10:29:05
Local clock offset: 0.868 ms
Remote clock offset: 0.012 ms


# Below is generated by plot.py at 2018-05-30 12:03:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 66.108 ms
Loss rate: 8.31%
-- Flow 1:
Average throughput: 93.82 Mbit/s
95th percentile per-packet one-way delay: 66.108 ms
Loss rate: 8.31%
```

Run 6: Report of FillP — Data Link

Flow 1 ingress (mean 102.33 Mbit/s) --- Flow 1 egress (mean 93.82 Mbit/s)

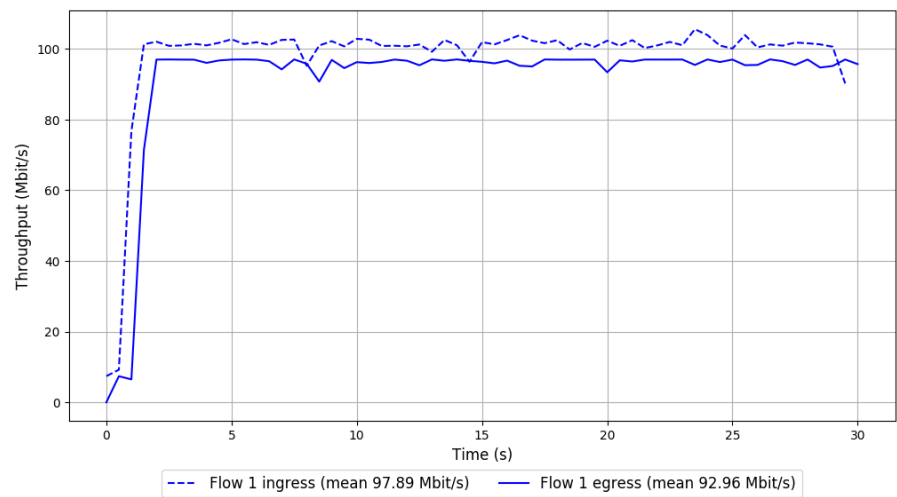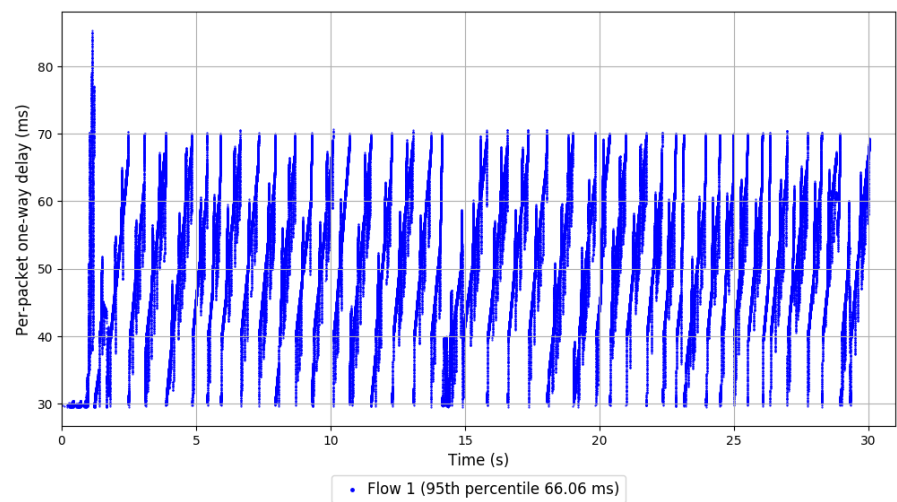Flow 1 (95th percentile 66.11 ms)

```
Run 7: Statistics of FillP

Start at: 2018-05-30 10:49:28
End at: 2018-05-30 10:49:58
Local clock offset: 0.919 ms
Remote clock offset: -0.274 ms


# Below is generated by plot.py at 2018-05-30 12:04:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 67.493 ms
Loss rate: 4.97%
-- Flow 1:
Average throughput: 92.96 Mbit/s
95th percentile per-packet one-way delay: 67.493 ms
Loss rate: 4.97%
```

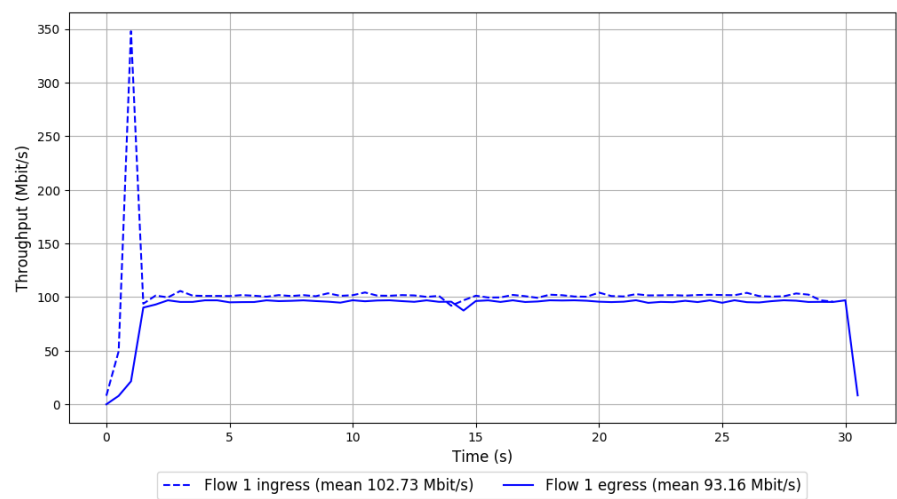Run 7: Report of FillP — Data Link

```
Run 8: Statistics of FillP

Start at: 2018-05-30 11:10:23
End at: 2018-05-30 11:10:53
Local clock offset: 1.205 ms
Remote clock offset: -0.261 ms


# Below is generated by plot.py at 2018-05-30 12:04:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 66.061 ms
Loss rate: 9.19%
-- Flow 1:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 66.061 ms
Loss rate: 9.19%
```

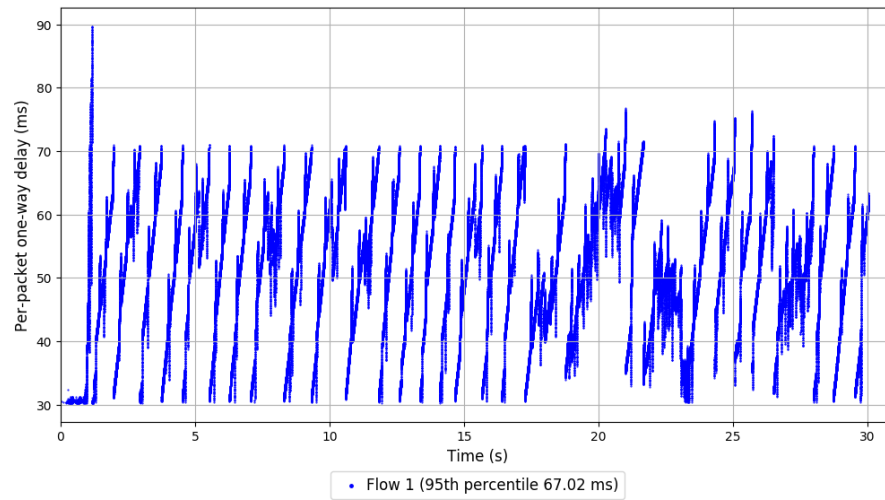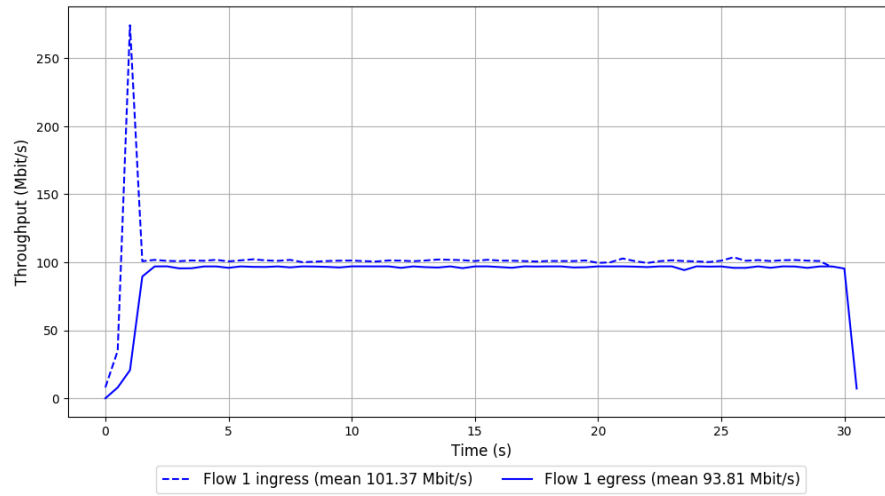Run 8: Report of FillP — Data Link

```
Run 9: Statistics of FillP

Start at: 2018-05-30 11:31:15
End at: 2018-05-30 11:31:45
Local clock offset: 1.729 ms
Remote clock offset: -0.185 ms


# Below is generated by plot.py at 2018-05-30 12:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 67.015 ms
Loss rate: 7.36%
-- Flow 1:
Average throughput: 93.81 Mbit/s
95th percentile per-packet one-way delay: 67.015 ms
Loss rate: 7.36%
```
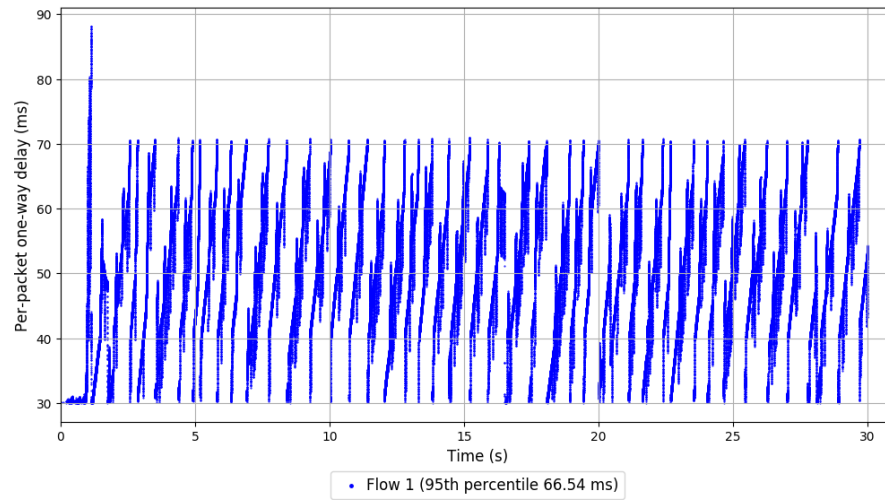
Run 9: Report of FillP — Data Link

Flow 1 ingress (mean 101.37 Mbit/s) ----- Flow 1 egress (mean 93.81 Mbit/s)

· Flow 1 (95th percentile 67.02 ms)

```
Run 10: Statistics of FillP

Start at: 2018-05-30 11:52:10
End at: 2018-05-30 11:52:40
Local clock offset: 0.798 ms
Remote clock offset: 0.111 ms


# Below is generated by plot.py at 2018-05-30 12:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 66.543 ms
Loss rate: 8.34%
-- Flow 1:
Average throughput: 93.04 Mbit/s
95th percentile per-packet one-way delay: 66.543 ms
Loss rate: 8.34%
```
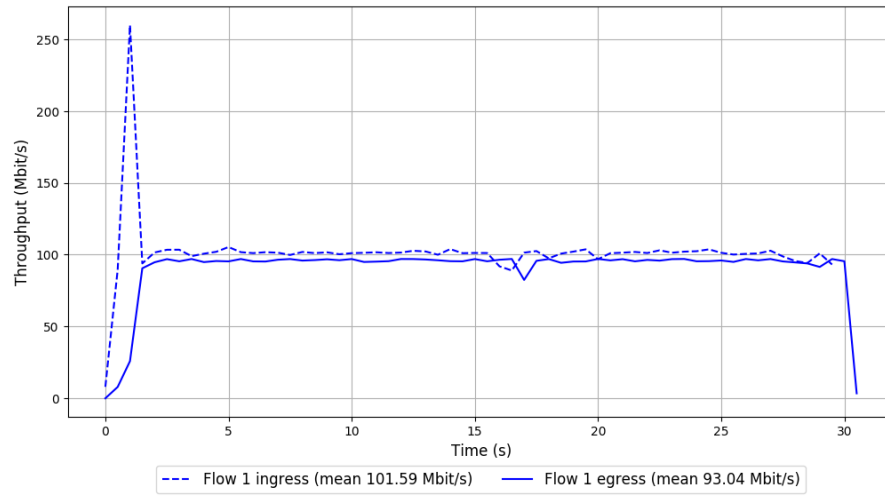
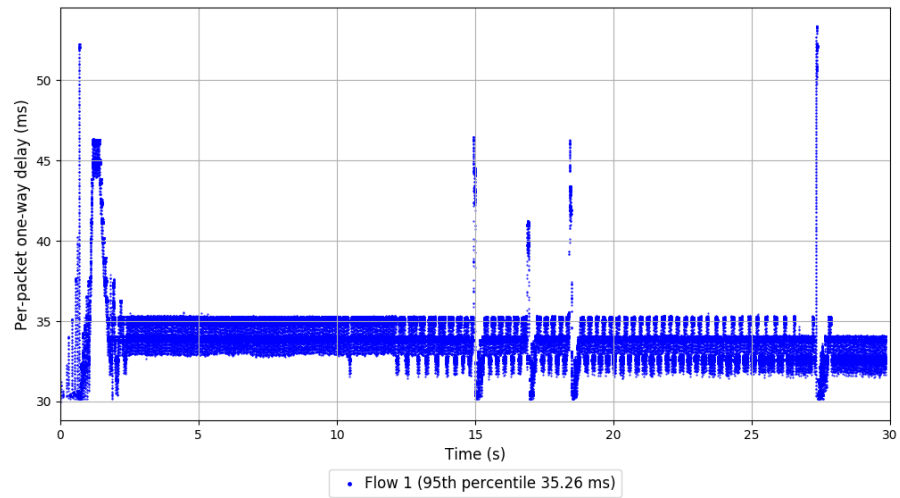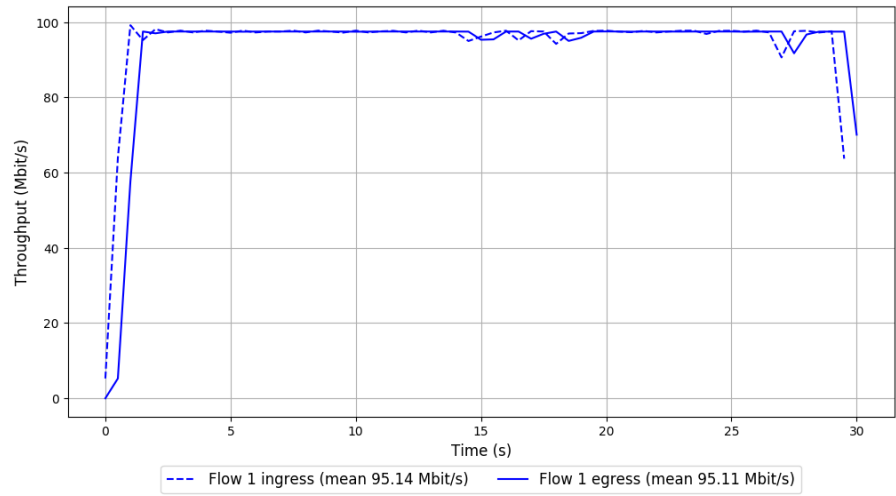Run 10: Report of FillP — Data Link

```
Run 1: Statistics of Indigo

Start at: 2018-05-30 08:34:53
End at: 2018-05-30 08:35:23
Local clock offset: 1.604 ms
Remote clock offset: -2.526 ms


# Below is generated by plot.py at 2018-05-30 12:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 35.263 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.11 Mbit/s
95th percentile per-packet one-way delay: 35.263 ms
Loss rate: 0.02%
```

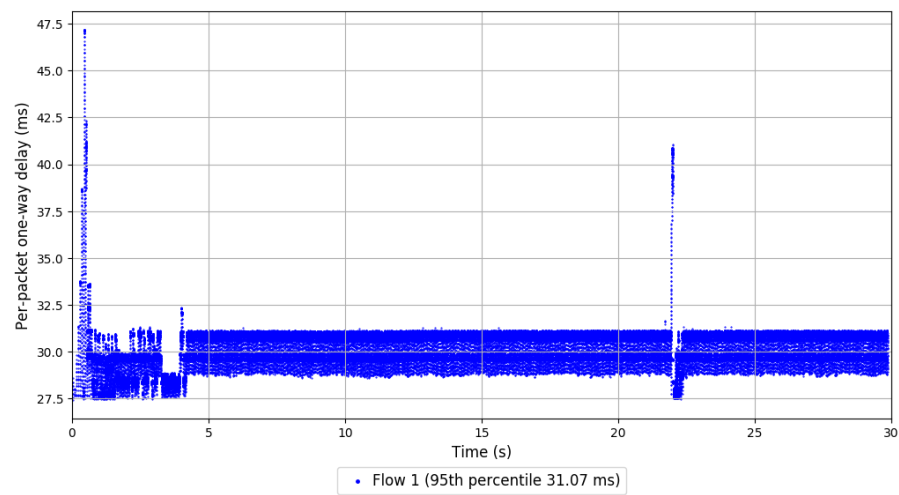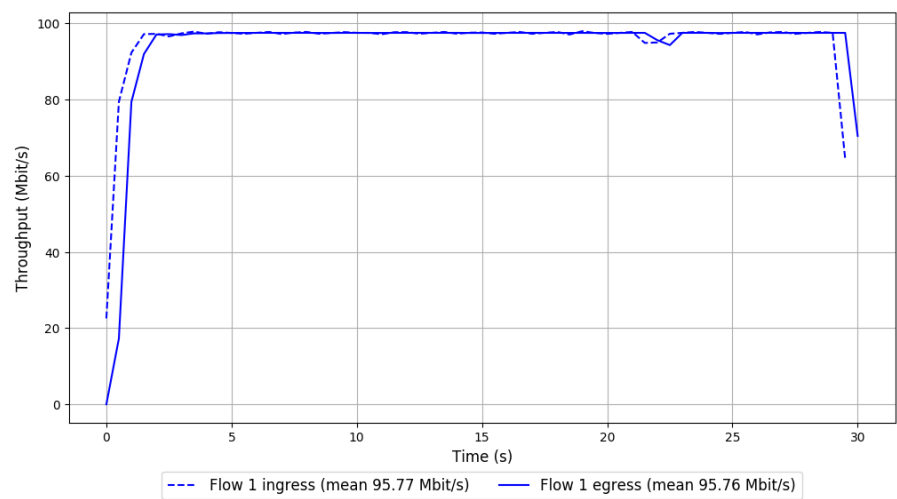Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2018-05-30 08:55:49
End at: 2018-05-30 08:56:19
Local clock offset: 1.506 ms
Remote clock offset: -5.698 ms


# Below is generated by plot.py at 2018-05-30 12:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 31.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.76 Mbit/s
95th percentile per-packet one-way delay: 31.066 ms
Loss rate: 0.00%
```

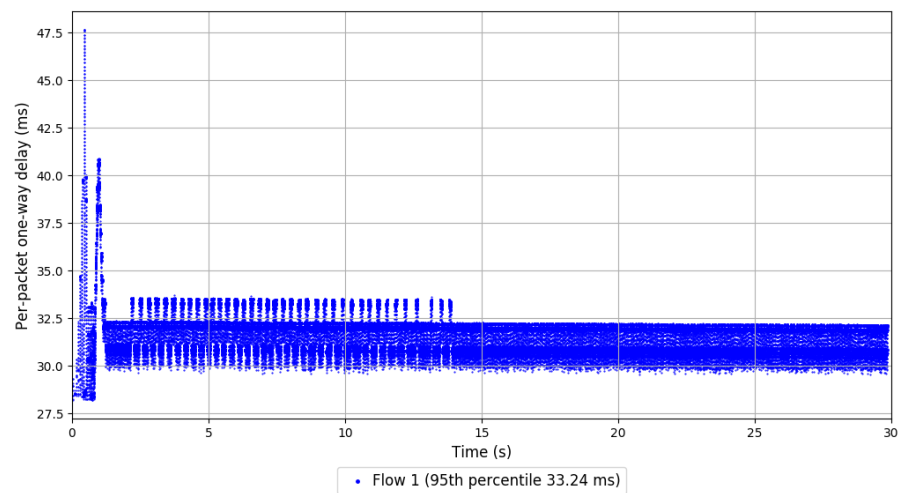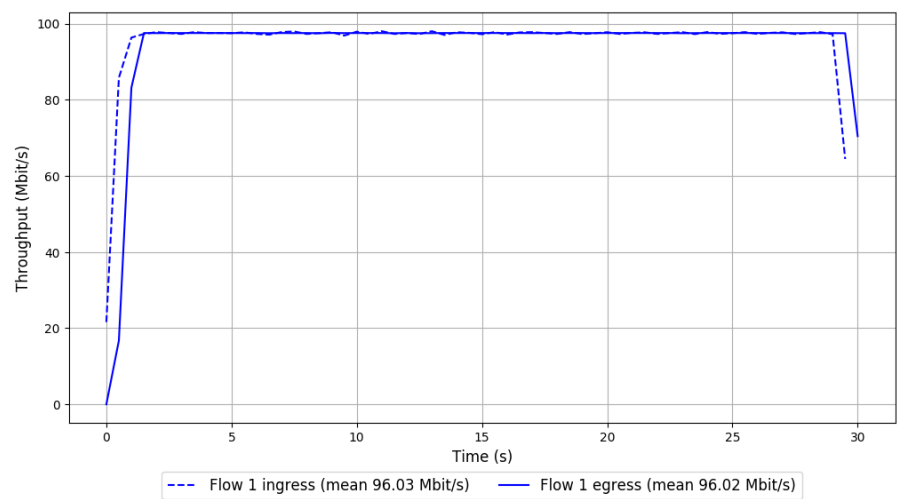## Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2018-05-30 09:16:42
End at: 2018-05-30 09:17:12
Local clock offset: 0.954 ms
Remote clock offset: -5.695 ms


# Below is generated by plot.py at 2018-05-30 12:05:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 33.240 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.02 Mbit/s
95th percentile per-packet one-way delay: 33.240 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2018-05-30 09:37:38
End at: 2018-05-30 09:38:08
Local clock offset: 0.656 ms
Remote clock offset: 0.003 ms


# Below is generated by plot.py at 2018-05-30 12:05:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 35.080 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 95.17 Mbit/s
95th percentile per-packet one-way delay: 35.080 ms
Loss rate: 0.14%
```
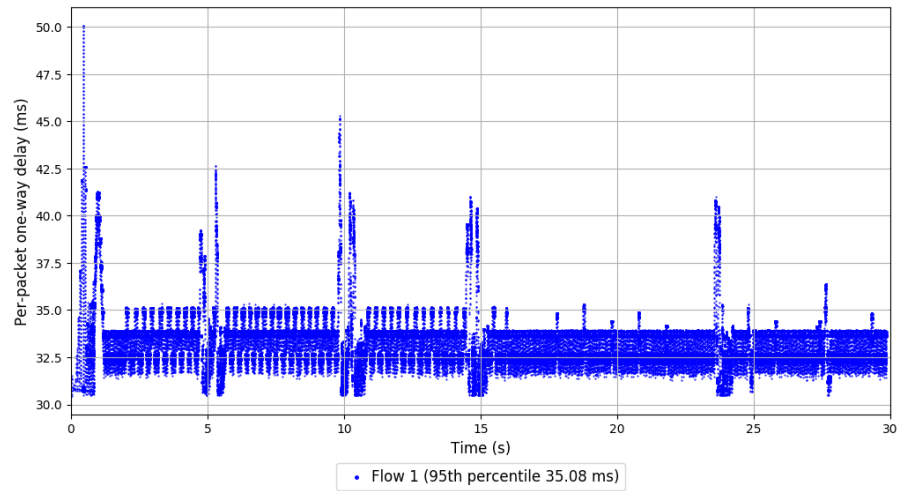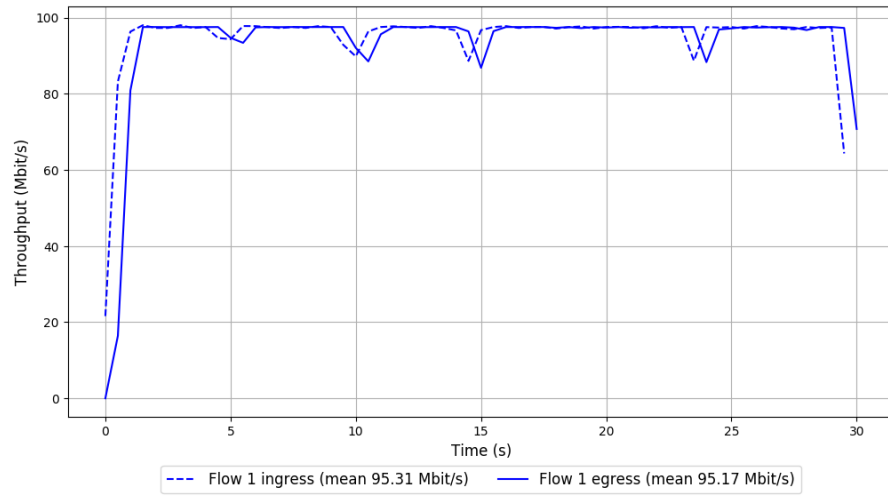
Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 95.31 Mbit/s)   —— Flow 1 egress (mean 95.17 Mbit/s)

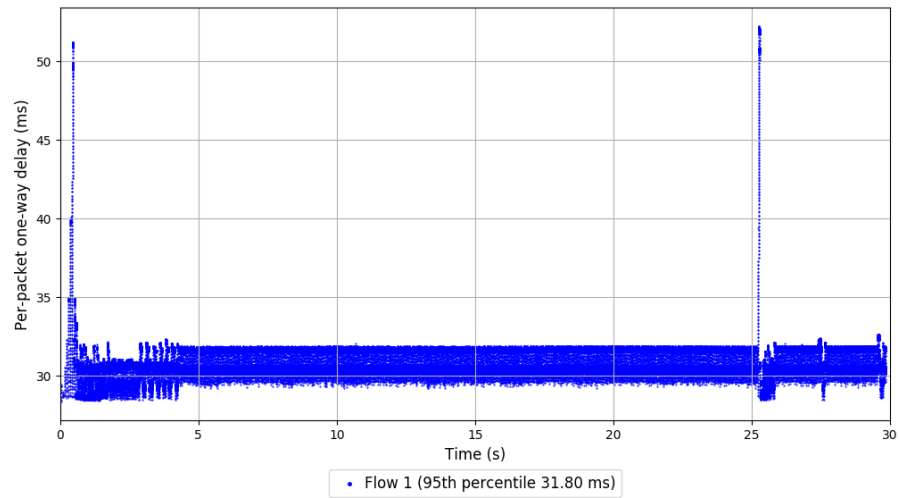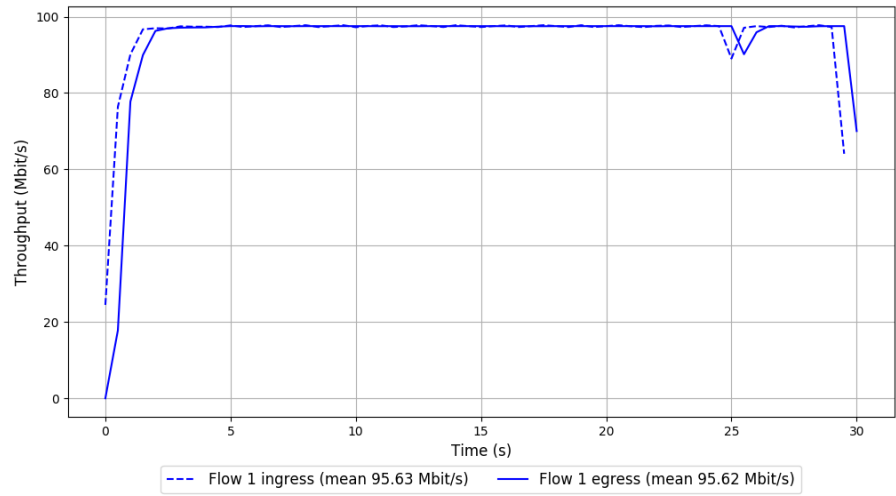Flow 1 (95th percentile 35.08 ms)

```
Run 5: Statistics of Indigo

Start at: 2018-05-30 09:58:36
End at: 2018-05-30 09:59:06
Local clock offset: 1.466 ms
Remote clock offset: -1.882 ms


# Below is generated by plot.py at 2018-05-30 12:05:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 31.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.62 Mbit/s
95th percentile per-packet one-way delay: 31.796 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link

```
Run 6: Statistics of Indigo

Start at: 2018-05-30 10:19:32
End at: 2018-05-30 10:20:02
Local clock offset: 0.948 ms
Remote clock offset: 0.199 ms


# Below is generated by plot.py at 2018-05-30 12:05:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 35.281 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.59 Mbit/s
95th percentile per-packet one-way delay: 35.281 ms
Loss rate: 0.01%
```
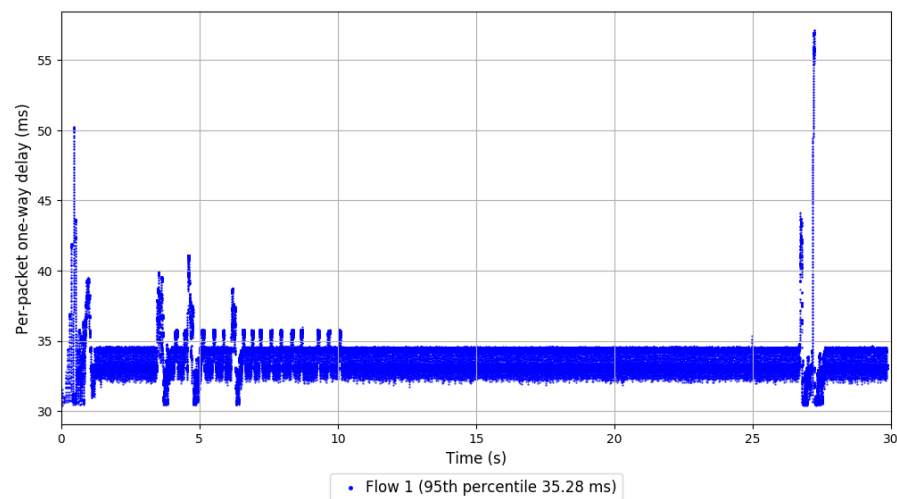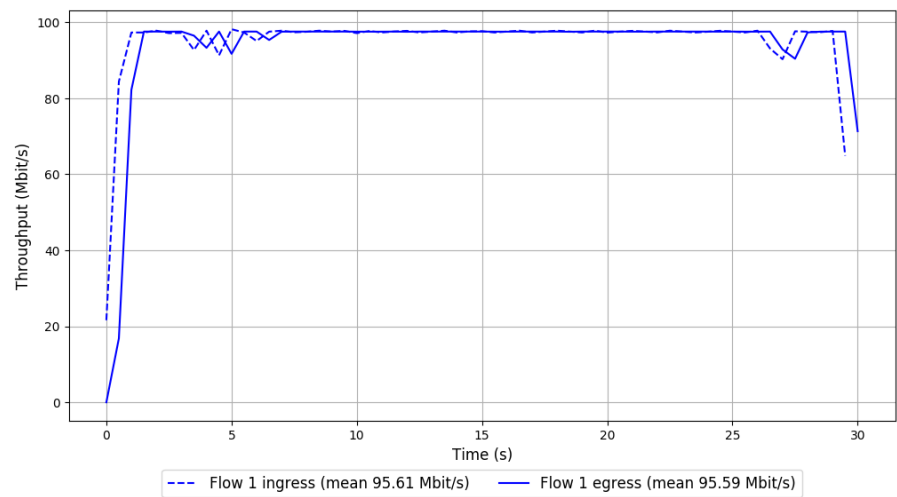
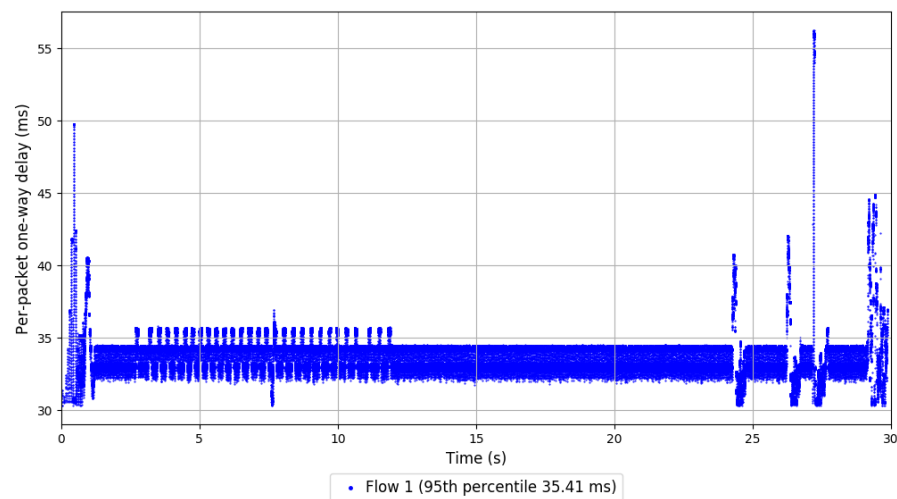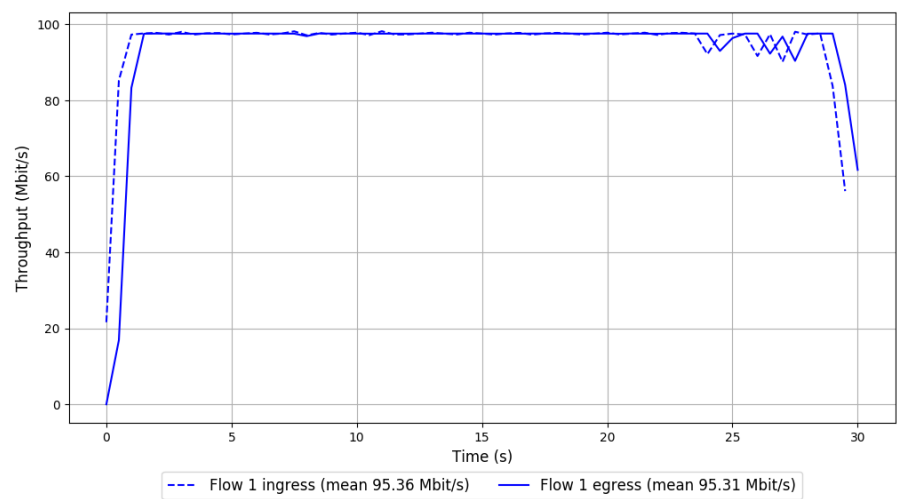Run 6: Report of Indigo — Data Link

```
Run 7: Statistics of Indigo

Start at: 2018-05-30 10:40:26
End at: 2018-05-30 10:40:57
Local clock offset: 0.877 ms
Remote clock offset: -0.359 ms


# Below is generated by plot.py at 2018-05-30 12:06:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 35.413 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 95.31 Mbit/s
95th percentile per-packet one-way delay: 35.413 ms
Loss rate: 0.03%
```

Run 7: Report of Indigo — Data Link

Flow 1 ingress (mean 95.36 Mbit/s)   Flow 1 egress (mean 95.31 Mbit/s)

Flow 1 (95th percentile 35.41 ms)

```
Run 8: Statistics of Indigo

Start at: 2018-05-30 11:01:20
End at: 2018-05-30 11:01:50
Local clock offset: 0.906 ms
Remote clock offset: -2.35 ms


# Below is generated by plot.py at 2018-05-30 12:06:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 31.124 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.74 Mbit/s
95th percentile per-packet one-way delay: 31.124 ms
Loss rate: 0.01%
```
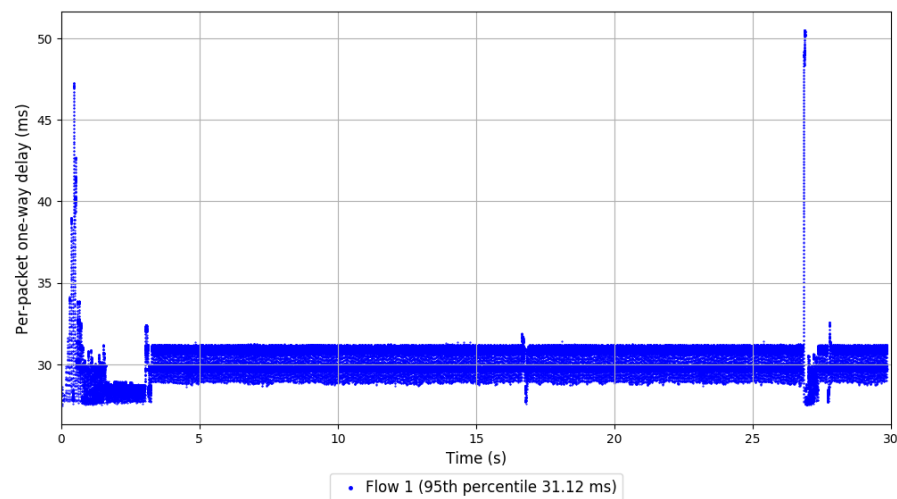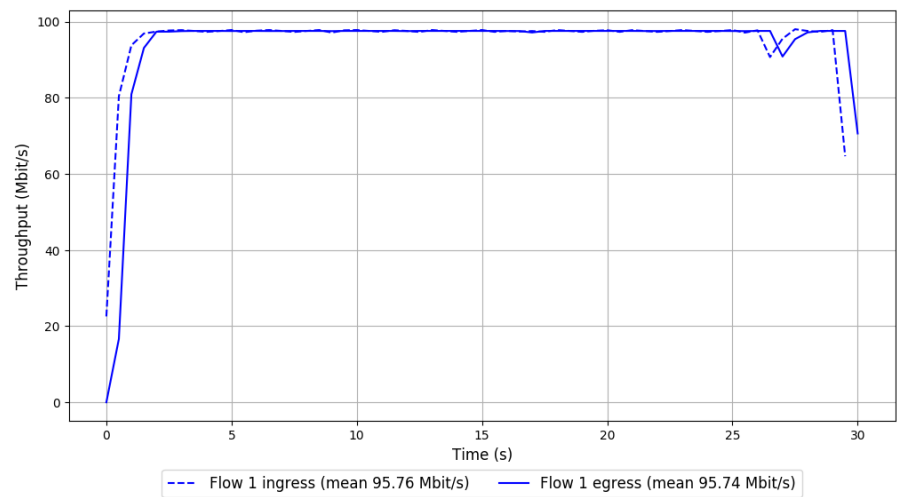
Run 8: Report of Indigo — Data Link

Flow 1 ingress (mean 95.76 Mbit/s)   Flow 1 egress (mean 95.74 Mbit/s)

Flow 1 (95th percentile 31.12 ms)

```
Run 9: Statistics of Indigo

Start at: 2018-05-30 11:22:12
End at: 2018-05-30 11:22:42
Local clock offset: 1.584 ms
Remote clock offset: 0.227 ms


# Below is generated by plot.py at 2018-05-30 12:06:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 34.577 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 95.65 Mbit/s
95th percentile per-packet one-way delay: 34.577 ms
Loss rate: 0.04%
```
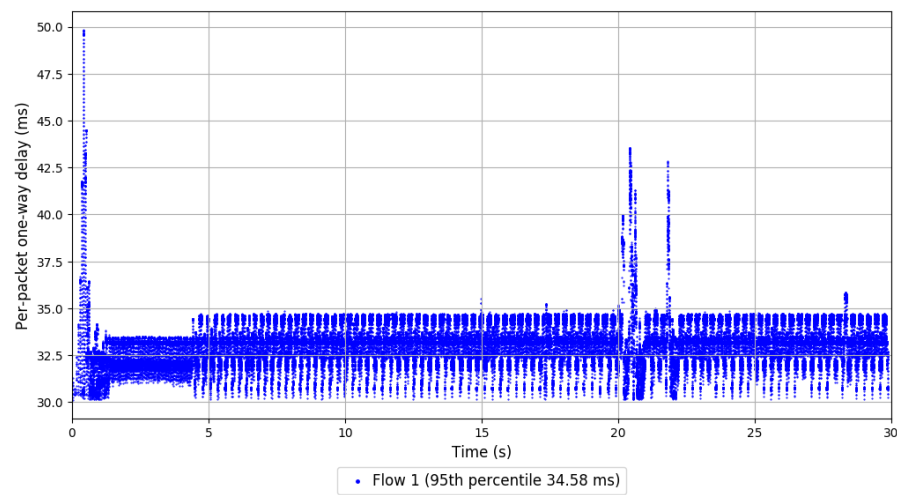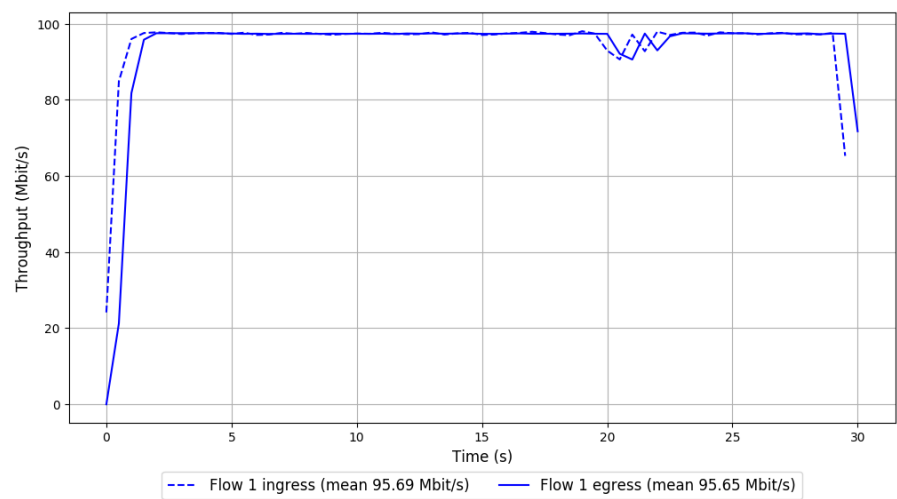
Run 9: Report of Indigo — Data Link

```
Run 10: Statistics of Indigo

Start at: 2018-05-30 11:43:05
End at: 2018-05-30 11:43:35
Local clock offset: 1.285 ms
Remote clock offset: 0.147 ms


# Below is generated by plot.py at 2018-05-30 12:06:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 33.372 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 95.27 Mbit/s
95th percentile per-packet one-way delay: 33.372 ms
Loss rate: 0.02%
```
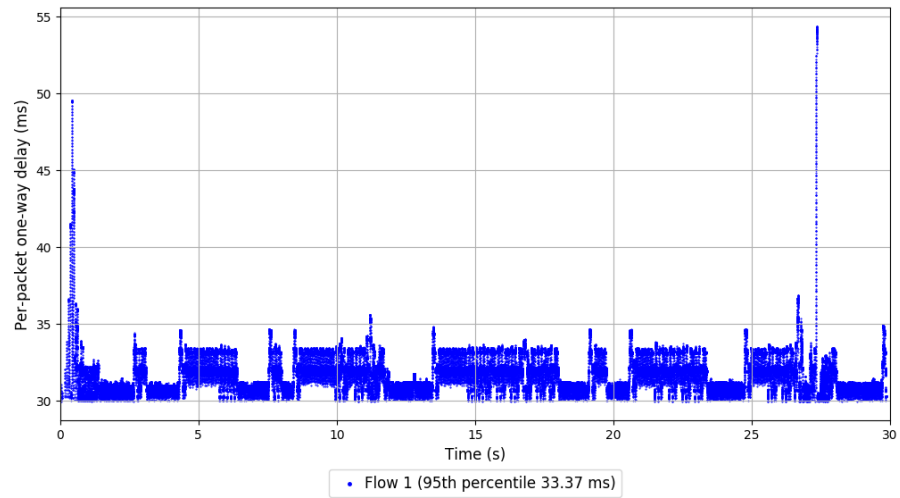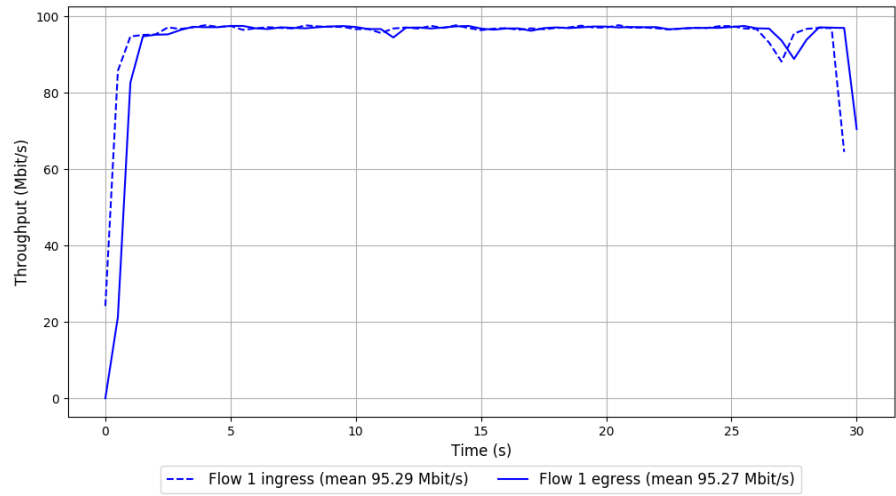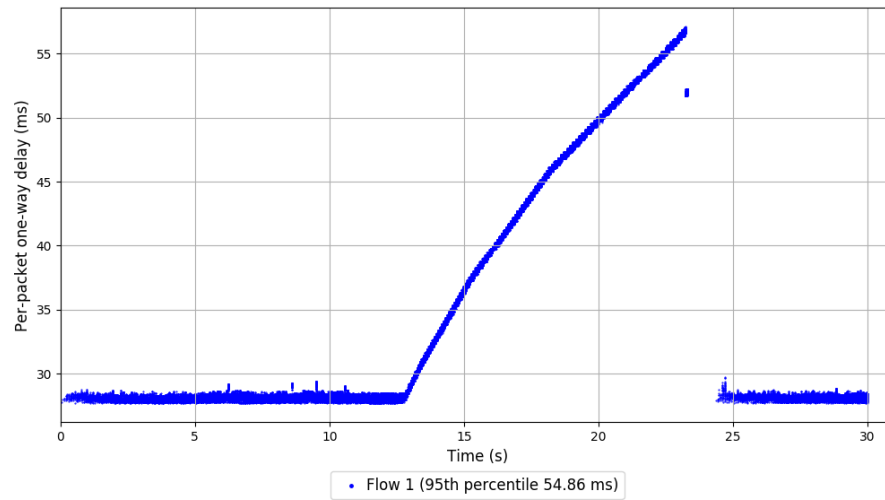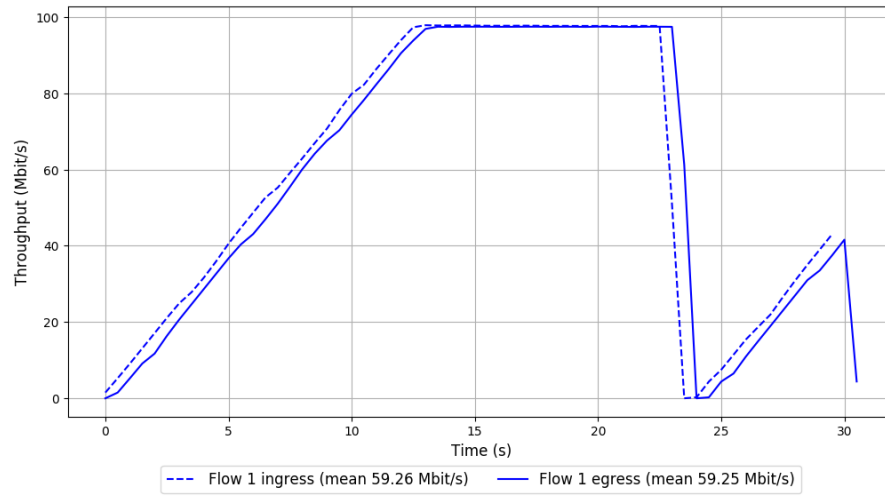
Run 10: Report of Indigo — Data Link

```
Run 1: Statistics of LEDBAT

Start at: 2018-05-30 08:38:46
End at: 2018-05-30 08:39:17
Local clock offset: 1.46 ms
Remote clock offset: -5.178 ms


# Below is generated by plot.py at 2018-05-30 12:06:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 54.863 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 54.863 ms
Loss rate: 0.03%
```

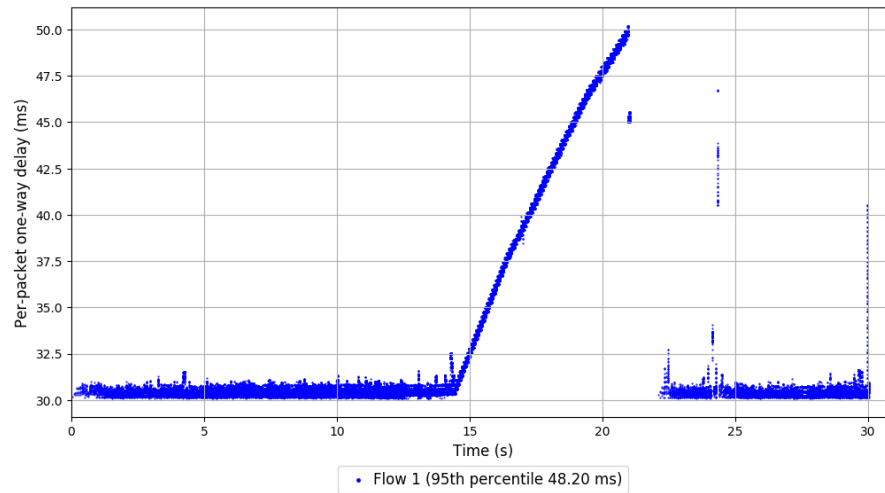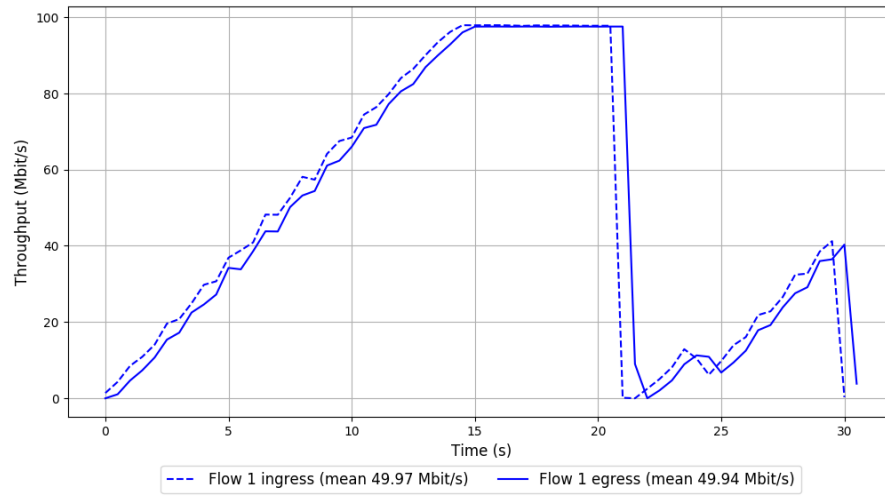# Run 1: Report of LEDBAT — Data Link

```
Run 2: Statistics of LEDBAT

Start at: 2018-05-30 08:59:42
End at: 2018-05-30 09:00:12
Local clock offset: 1.51 ms
Remote clock offset: -3.168 ms


# Below is generated by plot.py at 2018-05-30 12:06:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.94 Mbit/s
95th percentile per-packet one-way delay: 48.200 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 49.94 Mbit/s
95th percentile per-packet one-way delay: 48.200 ms
Loss rate: 0.05%
```
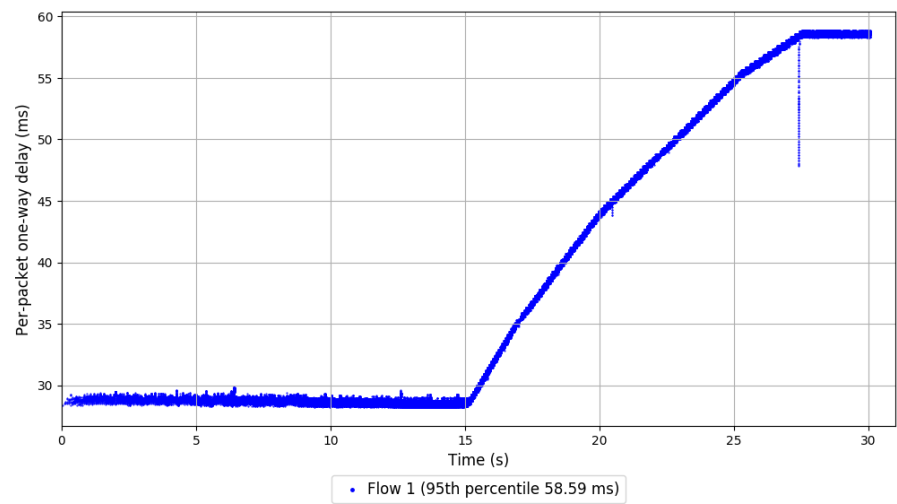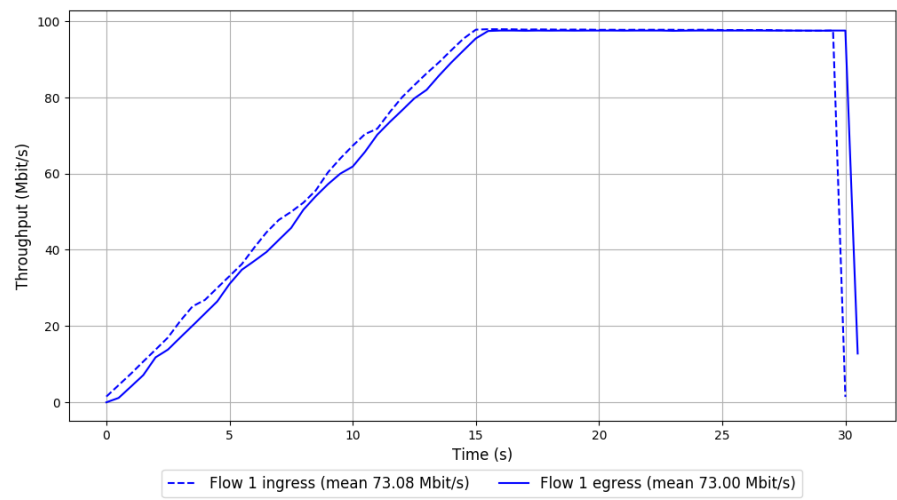
Run 2: Report of LEDBAT — Data Link

```
Run 3: Statistics of LEDBAT

Start at: 2018-05-30 09:20:35
End at: 2018-05-30 09:21:05
Local clock offset: 0.769 ms
Remote clock offset: -4.449 ms


# Below is generated by plot.py at 2018-05-30 12:06:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.00 Mbit/s
95th percentile per-packet one-way delay: 58.586 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.00 Mbit/s
95th percentile per-packet one-way delay: 58.586 ms
Loss rate: 0.00%
```
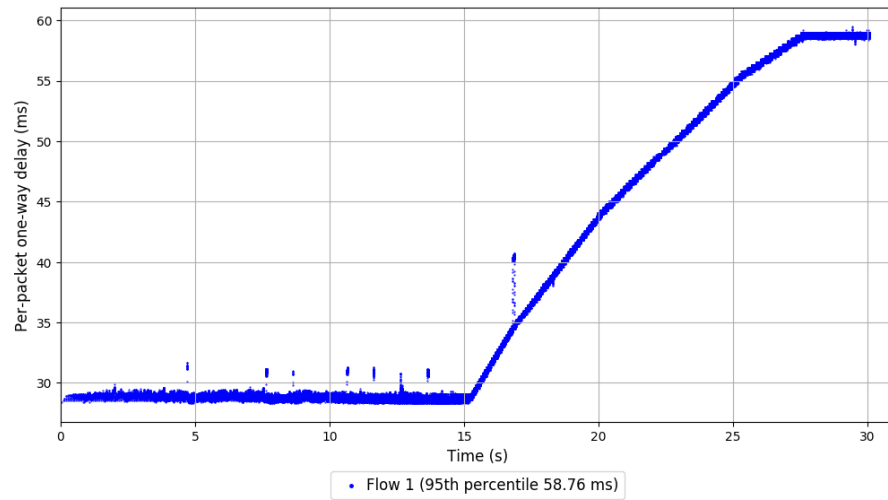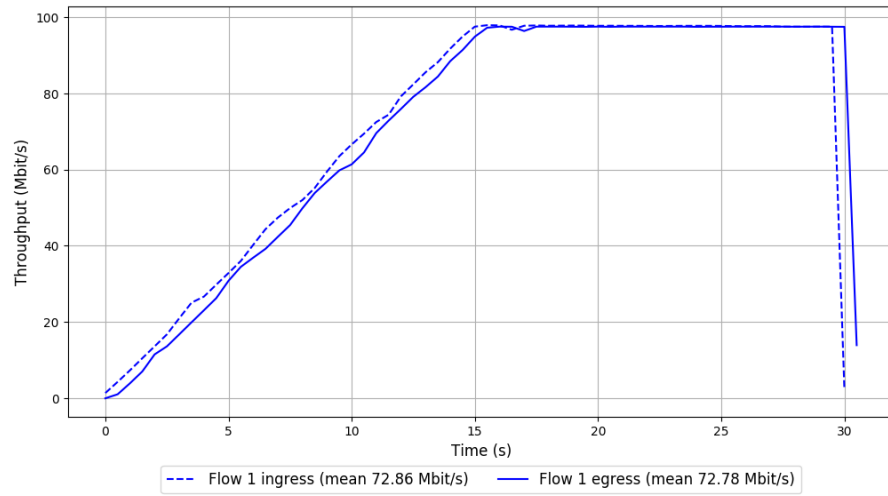
Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2018-05-30 09:41:32
End at: 2018-05-30 09:42:02
Local clock offset: 1.039 ms
Remote clock offset: -1.772 ms


# Below is generated by plot.py at 2018-05-30 12:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 58.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.78 Mbit/s
95th percentile per-packet one-way delay: 58.755 ms
Loss rate: 0.00%
```

Run 4: Report of LEDBAT — Data Link

Flow 1 ingress (mean 72.86 Mbit/s)   Flow 1 egress (mean 72.78 Mbit/s)

Flow 1 (95th percentile 58.76 ms)

```
Run 5: Statistics of LEDBAT

Start at: 2018-05-30 10:02:29
End at: 2018-05-30 10:02:59
Local clock offset: 1.611 ms
Remote clock offset: 0.609 ms


# Below is generated by plot.py at 2018-05-30 12:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.01 Mbit/s
95th percentile per-packet one-way delay: 39.705 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 48.01 Mbit/s
95th percentile per-packet one-way delay: 39.705 ms
Loss rate: 0.03%
```
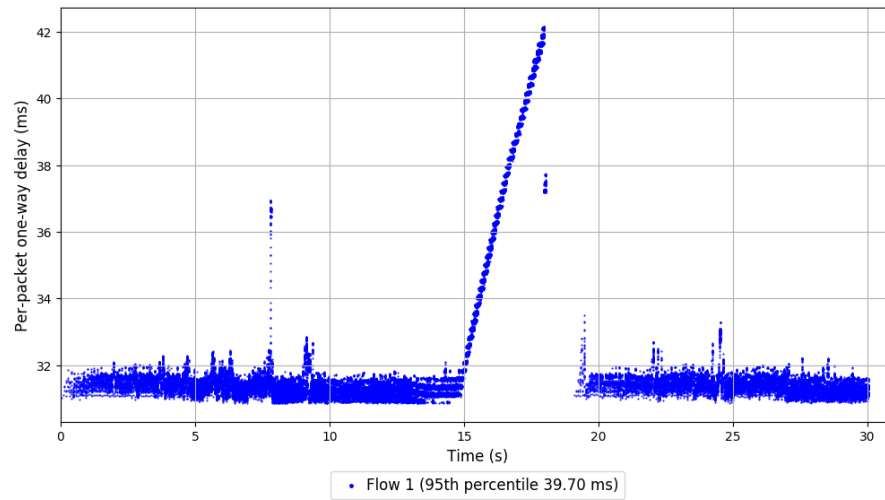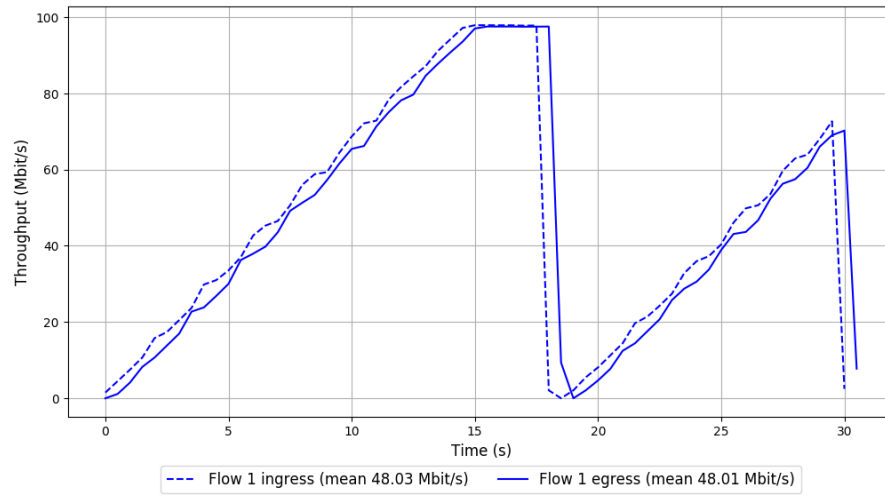
Run 5: Report of LEDBAT — Data Link

Flow 1 ingress (mean 48.03 Mbit/s)   Flow 1 egress (mean 48.01 Mbit/s)
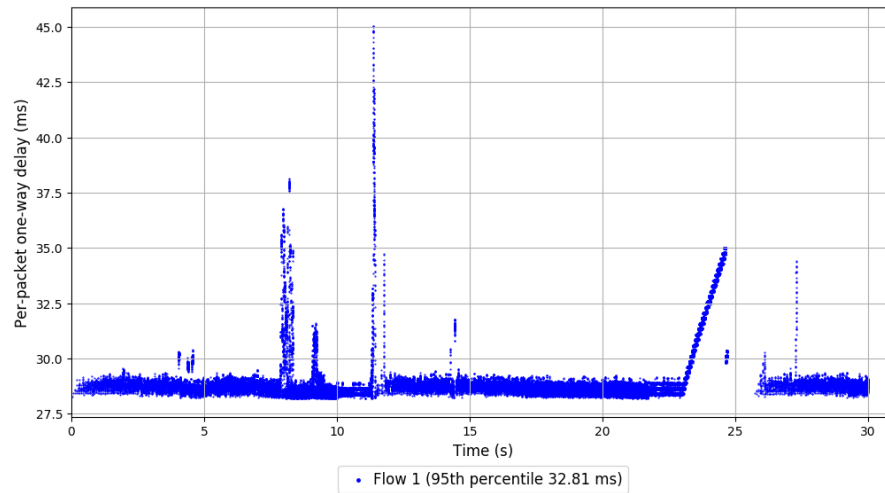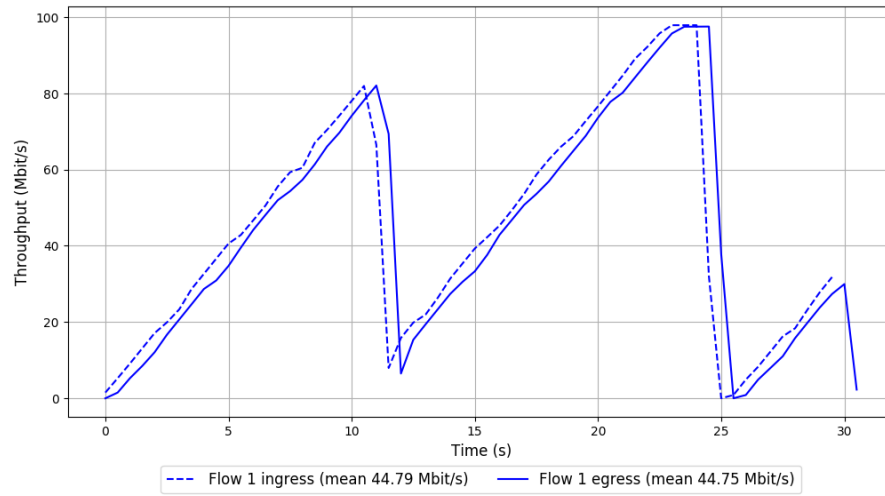

Flow 1 (95th percentile 39.70 ms)

```
Run 6: Statistics of LEDBAT

Start at: 2018-05-30 10:23:26
End at: 2018-05-30 10:23:56
Local clock offset: 0.965 ms
Remote clock offset: -1.829 ms


# Below is generated by plot.py at 2018-05-30 12:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.75 Mbit/s
95th percentile per-packet one-way delay: 32.815 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 44.75 Mbit/s
95th percentile per-packet one-way delay: 32.815 ms
Loss rate: 0.09%
```

Run 6: Report of LEDBAT — Data Link

Flow 1 ingress (mean 44.79 Mbit/s) --- Flow 1 egress (mean 44.75 Mbit/s)
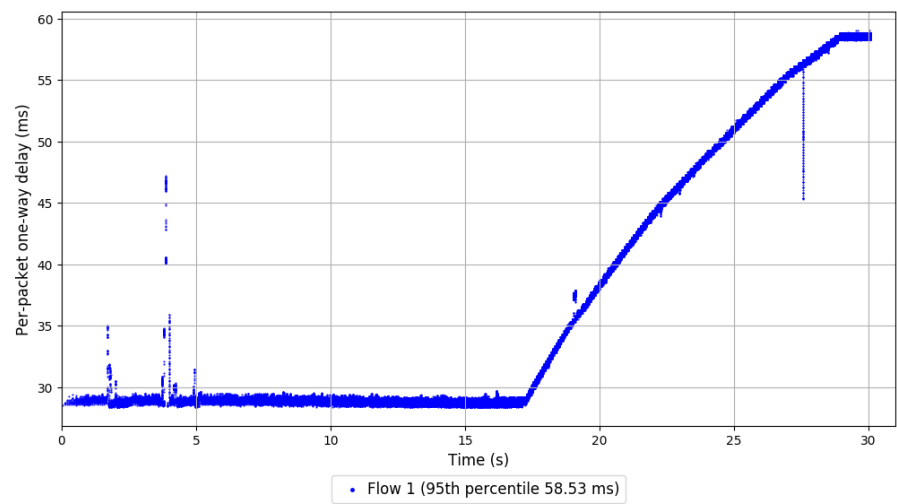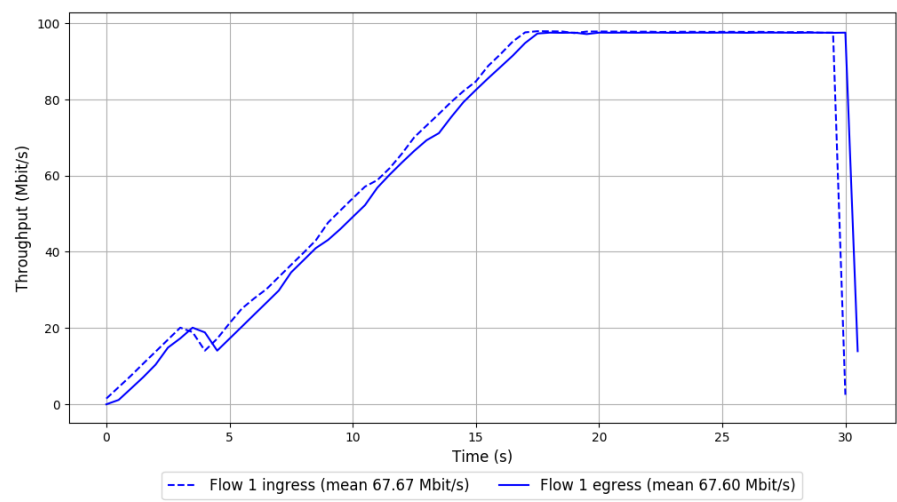

Flow 1 (95th percentile 32.81 ms)

```
Run 7: Statistics of LEDBAT

Start at: 2018-05-30 10:44:19
End at: 2018-05-30 10:44:49
Local clock offset: 0.813 ms
Remote clock offset: -2.356 ms


# Below is generated by plot.py at 2018-05-30 12:07:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.60 Mbit/s
95th percentile per-packet one-way delay: 58.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 67.60 Mbit/s
95th percentile per-packet one-way delay: 58.527 ms
Loss rate: 0.00%
```

Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 67.67 Mbit/s)   Flow 1 egress (mean 67.60 Mbit/s)

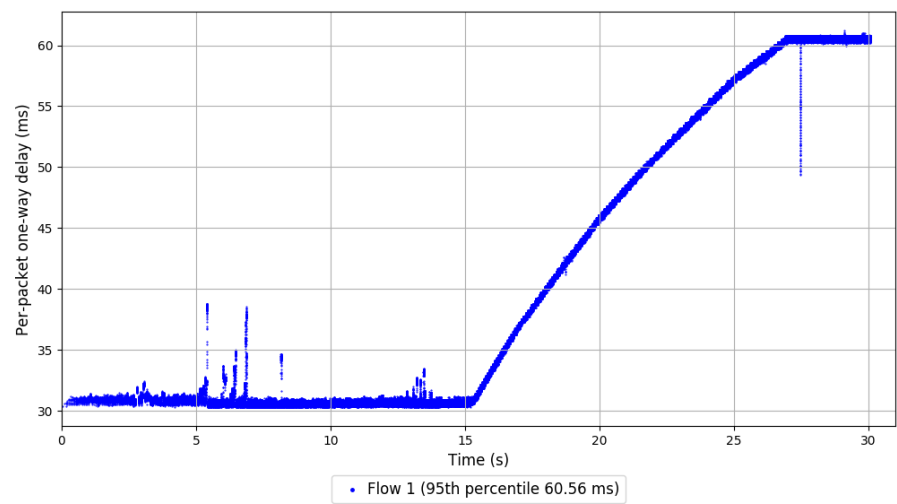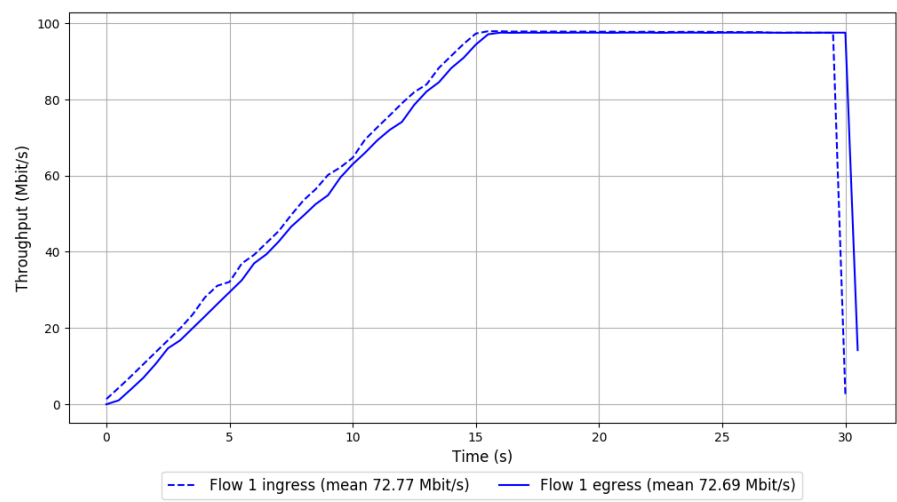

• Flow 1 (95th percentile 58.53 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2018-05-30 11:05:13
End at: 2018-05-30 11:05:43
Local clock offset: 0.906 ms
Remote clock offset: -0.271 ms


# Below is generated by plot.py at 2018-05-30 12:07:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.69 Mbit/s
95th percentile per-packet one-way delay: 60.557 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.69 Mbit/s
95th percentile per-packet one-way delay: 60.557 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link

Flow 1 ingress (mean 72.77 Mbit/s) — — —   Flow 1 egress (mean 72.69 Mbit/s) ———
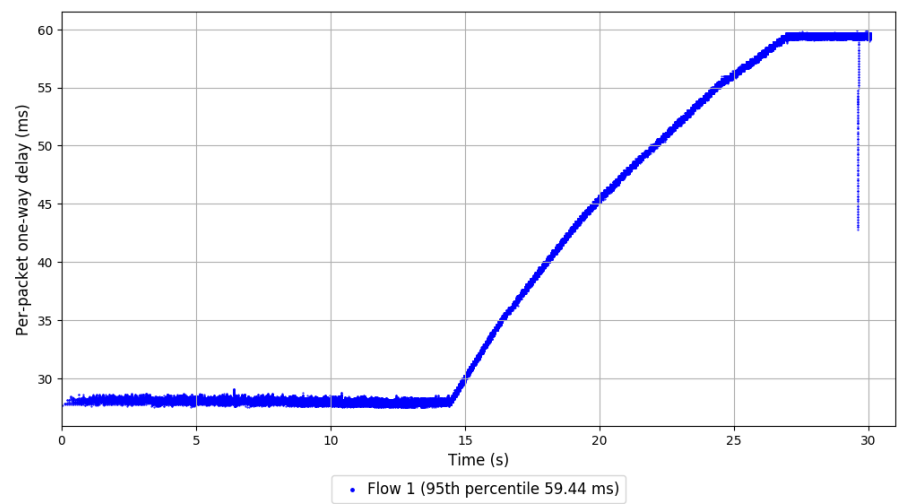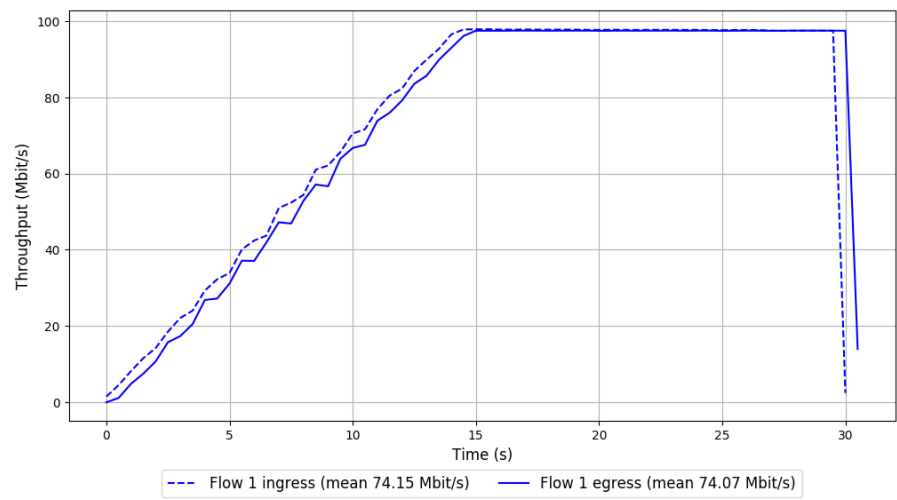

Flow 1 (95th percentile 60.56 ms)

```
Run 9: Statistics of LEDBAT

Start at: 2018-05-30 11:26:05
End at: 2018-05-30 11:26:35
Local clock offset: 1.735 ms
Remote clock offset: -2.264 ms


# Below is generated by plot.py at 2018-05-30 12:07:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 59.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.07 Mbit/s
95th percentile per-packet one-way delay: 59.441 ms
Loss rate: 0.00%
```

Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 74.15 Mbit/s) --- Flow 1 egress (mean 74.07 Mbit/s)
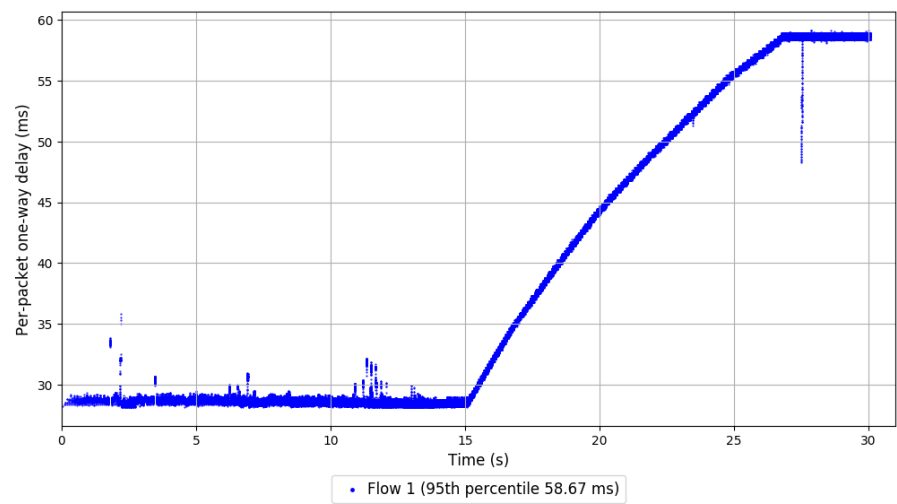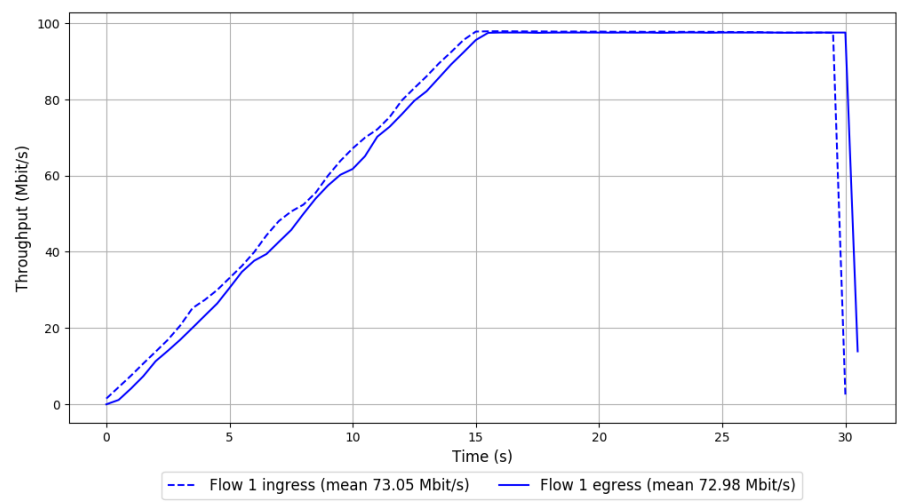

Flow 1 (95th percentile 59.44 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2018-05-30 11:46:59
End at: 2018-05-30 11:47:29
Local clock offset: 1.097 ms
Remote clock offset: -2.389 ms


# Below is generated by plot.py at 2018-05-30 12:07:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.98 Mbit/s
95th percentile per-packet one-way delay: 58.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 72.98 Mbit/s
95th percentile per-packet one-way delay: 58.668 ms
Loss rate: 0.00%
```

Run 10: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 08:33:35
End at: 2018-05-30 08:34:05
Local clock offset: 1.595 ms
Remote clock offset: -2.959 ms


# Below is generated by plot.py at 2018-05-30 12:07:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 38.335 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 90.96 Mbit/s
95th percentile per-packet one-way delay: 38.335 ms
Loss rate: 0.65%
```
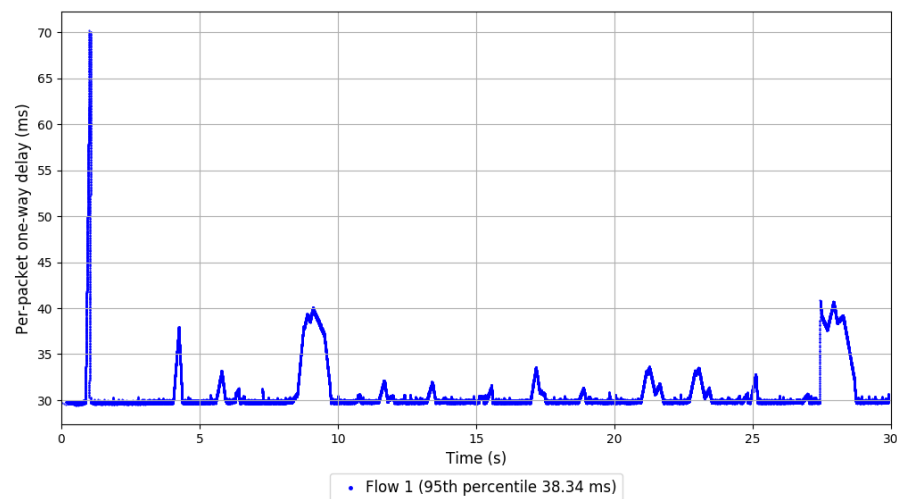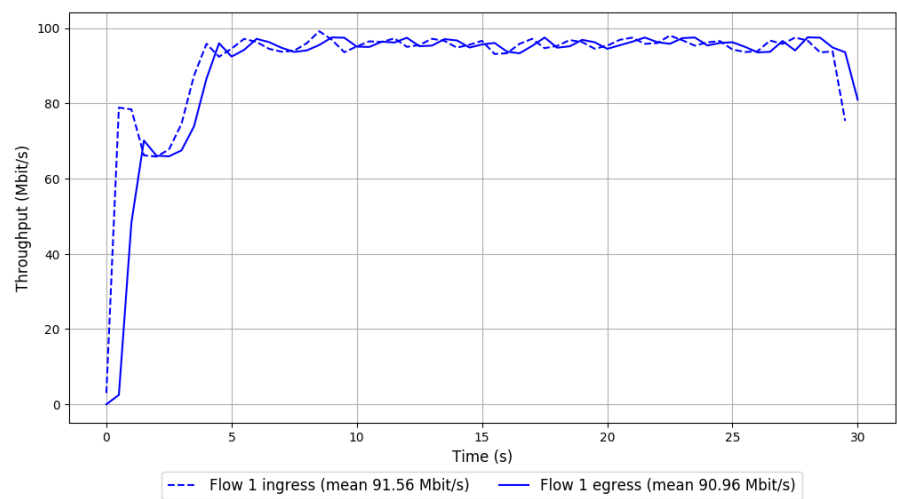
Run 1: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.56 Mbit/s)   Flow 1 egress (mean 90.96 Mbit/s)
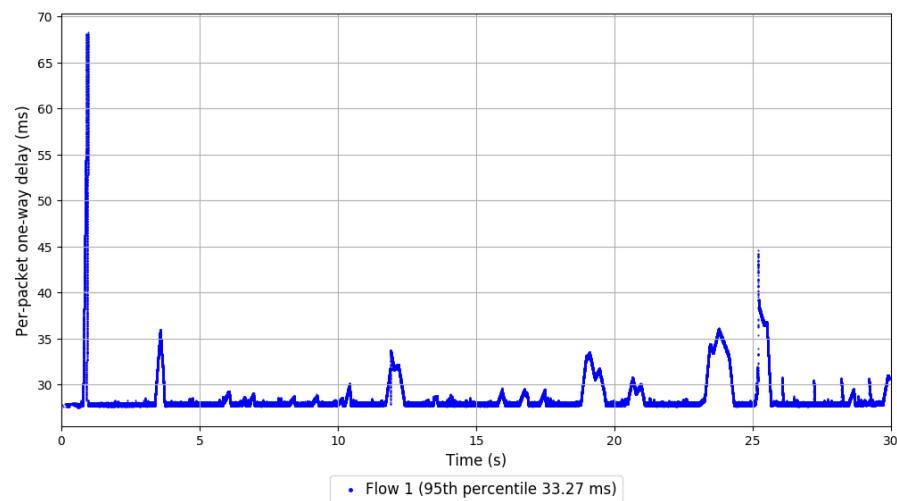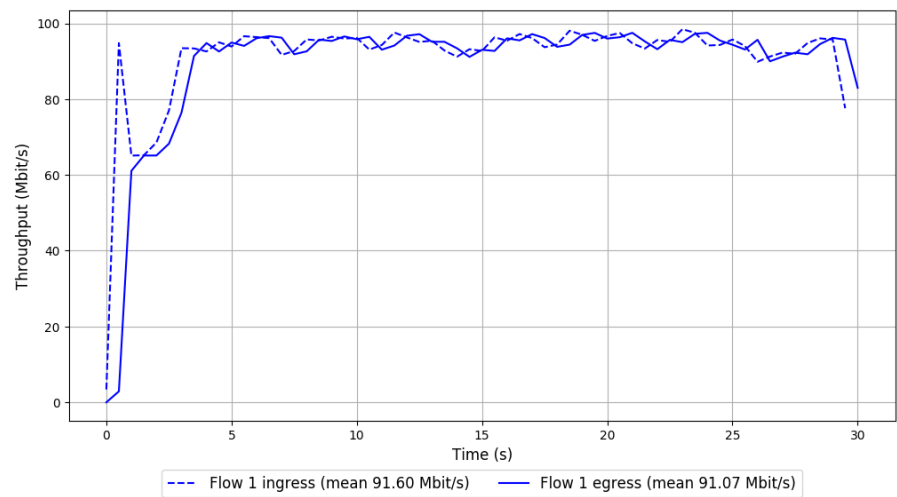

Flow 1 (95th percentile 38.34 ms)

```
Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 08:54:31
End at: 2018-05-30 08:55:01
Local clock offset: 1.404 ms
Remote clock offset: -5.596 ms


# Below is generated by plot.py at 2018-05-30 12:07:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 33.268 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 33.268 ms
Loss rate: 0.58%
```

Run 2: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.60 Mbit/s)   Flow 1 egress (mean 91.07 Mbit/s)

Flow 1 (95th percentile 33.27 ms)

```
Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 09:15:24
End at: 2018-05-30 09:15:54
Local clock offset: 1.004 ms
Remote clock offset: -3.903 ms


# Below is generated by plot.py at 2018-05-30 12:07:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 38.309 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 91.91 Mbit/s
95th percentile per-packet one-way delay: 38.309 ms
Loss rate: 0.65%
```
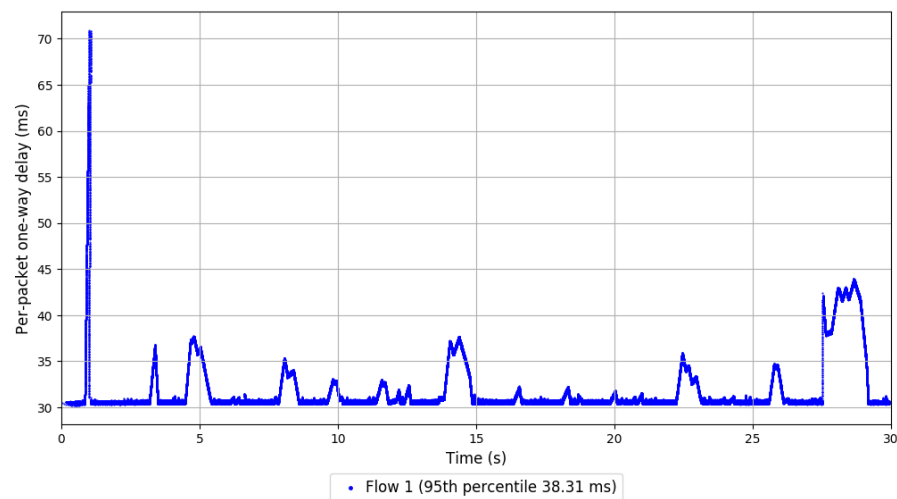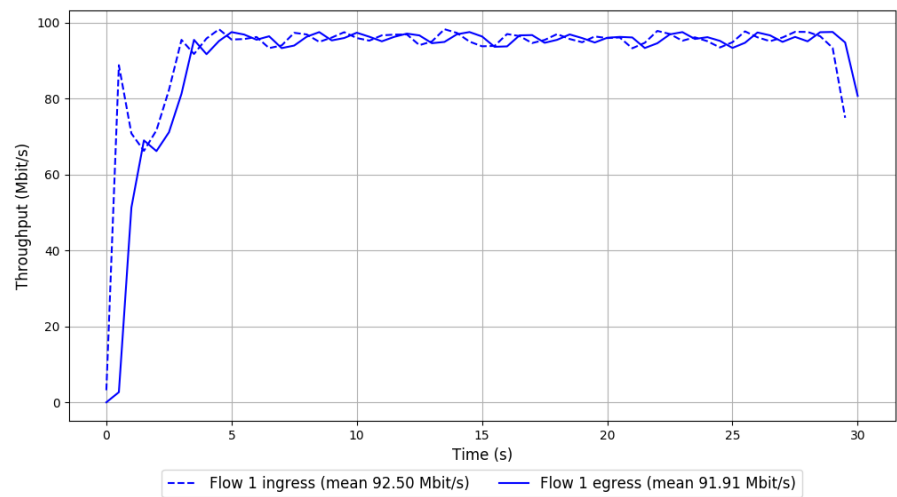
Run 3: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 92.50 Mbit/s)   Flow 1 egress (mean 91.91 Mbit/s)

• Flow 1 (95th percentile 38.31 ms)

```
Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 09:36:20
End at: 2018-05-30 09:36:50
Local clock offset: 0.648 ms
Remote clock offset: -2.217 ms


# Below is generated by plot.py at 2018-05-30 12:07:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 37.601 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 91.45 Mbit/s
95th percentile per-packet one-way delay: 37.601 ms
Loss rate: 0.98%
```
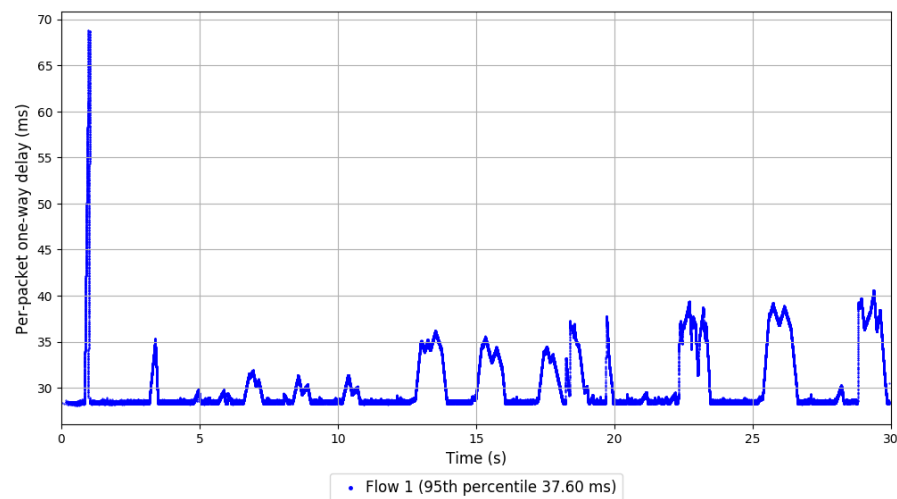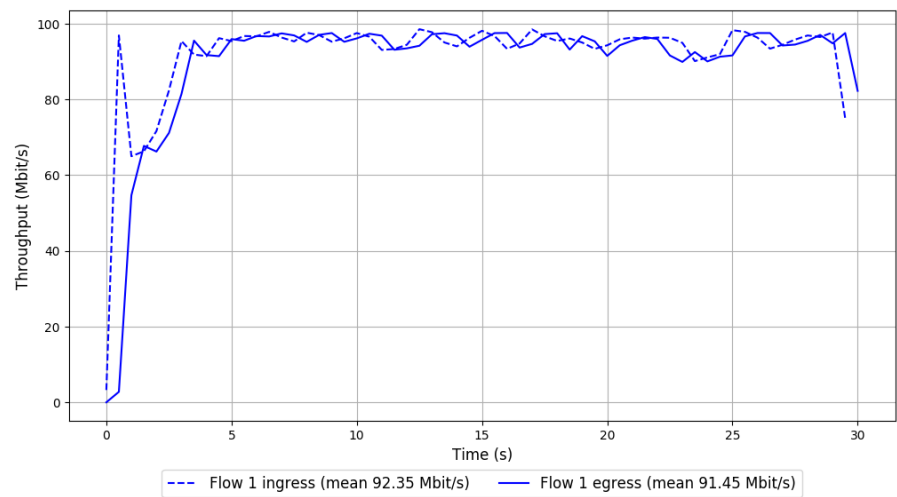
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 92.35 Mbit/s)   Flow 1 egress (mean 91.45 Mbit/s)

• Flow 1 (95th percentile 37.60 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 09:57:18
End at: 2018-05-30 09:57:48
Local clock offset: 1.455 ms
Remote clock offset: 0.676 ms

# Below is generated by plot.py at 2018-05-30 12:08:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 37.403 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 90.43 Mbit/s
95th percentile per-packet one-way delay: 37.403 ms
Loss rate: 0.68%
```
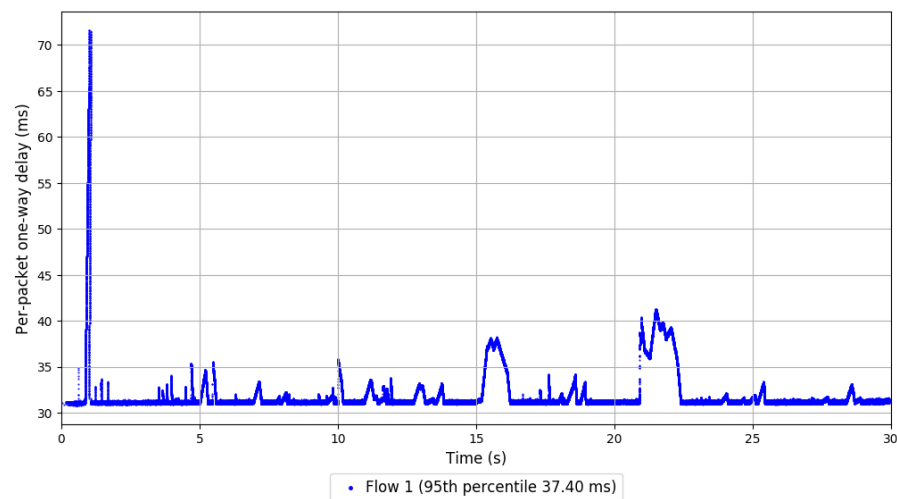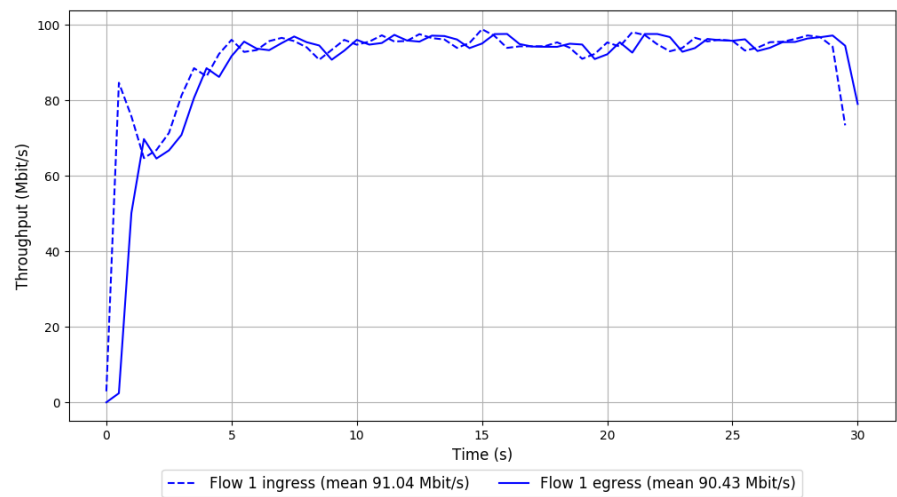
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.04 Mbit/s) — — — Flow 1 egress (mean 90.43 Mbit/s)

• Flow 1 (95th percentile 37.40 ms)

```
Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 10:18:14
End at: 2018-05-30 10:18:44
Local clock offset: 1.059 ms
Remote clock offset: 0.596 ms


# Below is generated by plot.py at 2018-05-30 12:08:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.80 Mbit/s
95th percentile per-packet one-way delay: 35.439 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 90.80 Mbit/s
95th percentile per-packet one-way delay: 35.439 ms
Loss rate: 0.63%
```
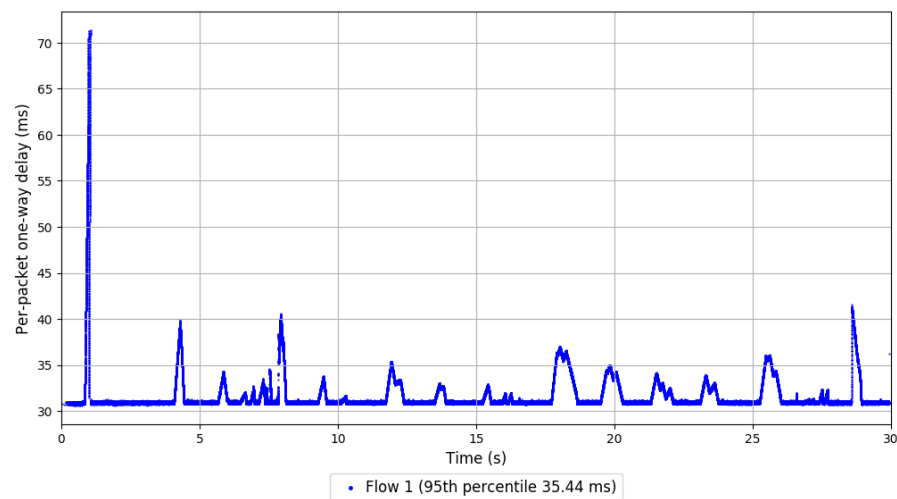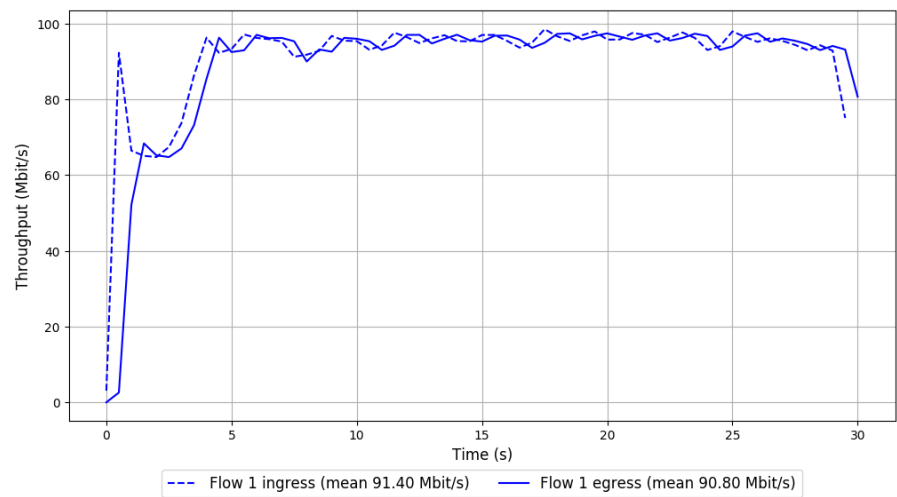
Run 6: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.40 Mbit/s)   Flow 1 egress (mean 90.80 Mbit/s)
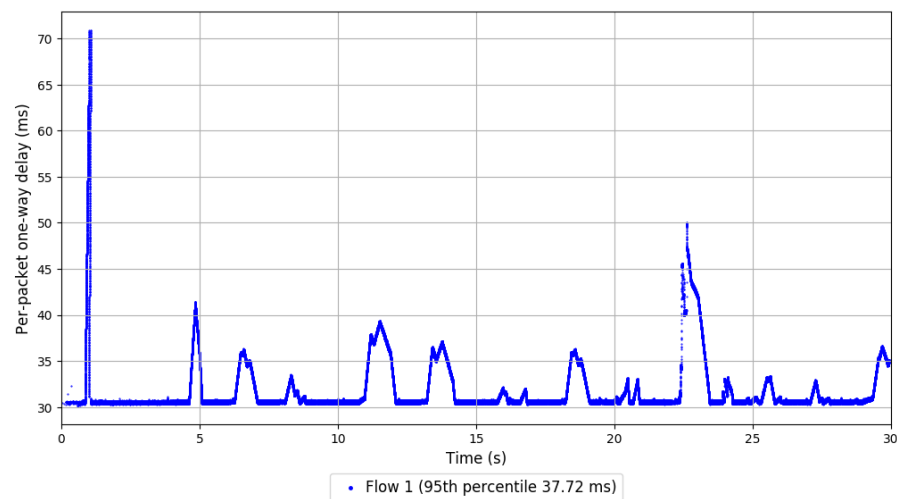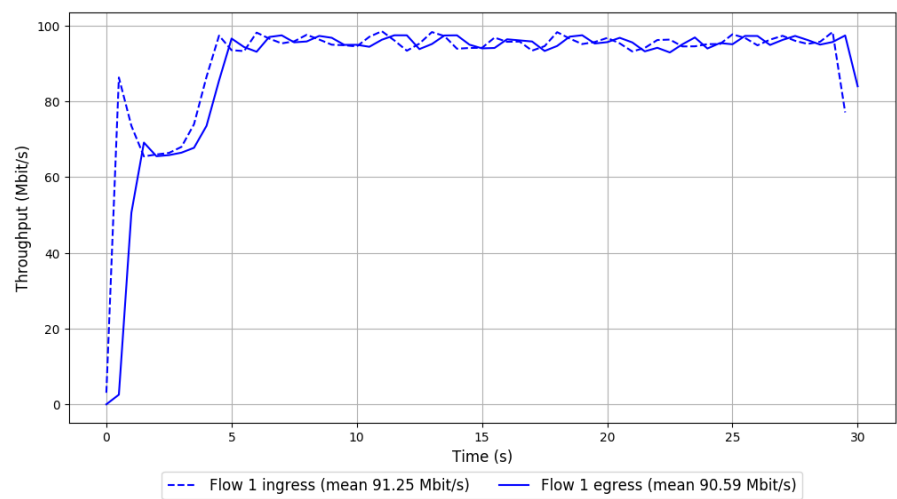

Flow 1 (95th percentile 35.44 ms)

```
Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 10:39:09
End at: 2018-05-30 10:39:39
Local clock offset: 0.867 ms
Remote clock offset: -0.315 ms


# Below is generated by plot.py at 2018-05-30 12:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.59 Mbit/s
95th percentile per-packet one-way delay: 37.721 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 90.59 Mbit/s
95th percentile per-packet one-way delay: 37.721 ms
Loss rate: 0.71%
```

Run 7: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.25 Mbit/s)   Flow 1 egress (mean 90.59 Mbit/s)

• Flow 1 (95th percentile 37.72 ms)

```
Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 11:00:02
End at: 2018-05-30 11:00:32
Local clock offset: 0.922 ms
Remote clock offset: -0.327 ms


# Below is generated by plot.py at 2018-05-30 12:08:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 37.956 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 91.50 Mbit/s
95th percentile per-packet one-way delay: 37.956 ms
Loss rate: 0.66%
```
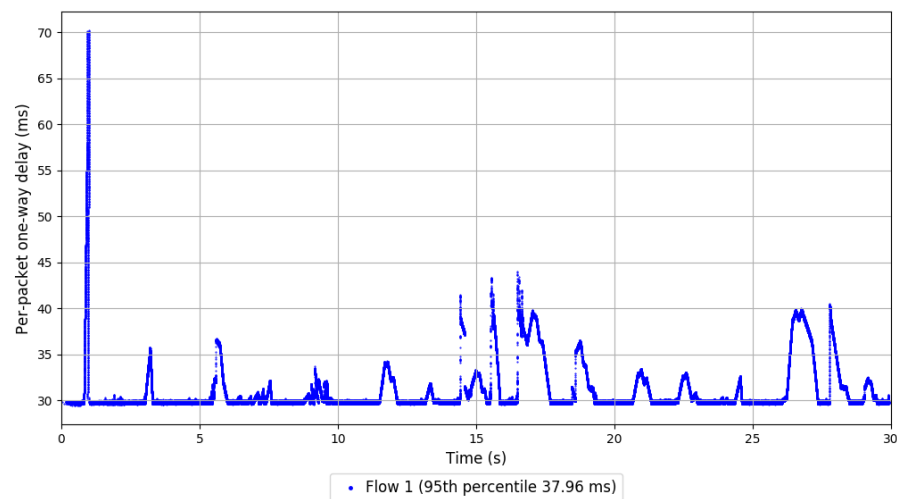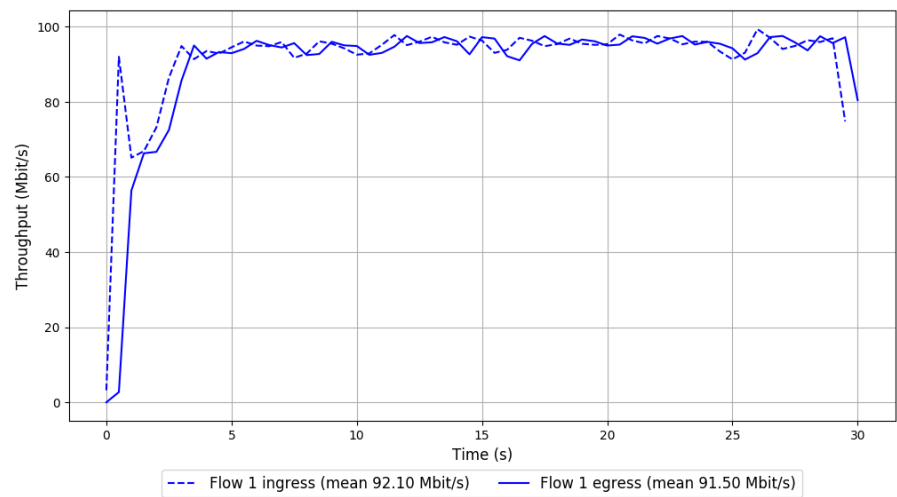
Run 8: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 92.10 Mbit/s) —— Flow 1 egress (mean 91.50 Mbit/s)

• Flow 1 (95th percentile 37.96 ms)

```
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 11:20:54
End at: 2018-05-30 11:21:24
Local clock offset: 1.546 ms
Remote clock offset: 0.226 ms


# Below is generated by plot.py at 2018-05-30 12:08:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 50.764 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 91.09 Mbit/s
95th percentile per-packet one-way delay: 50.764 ms
Loss rate: 0.70%
```
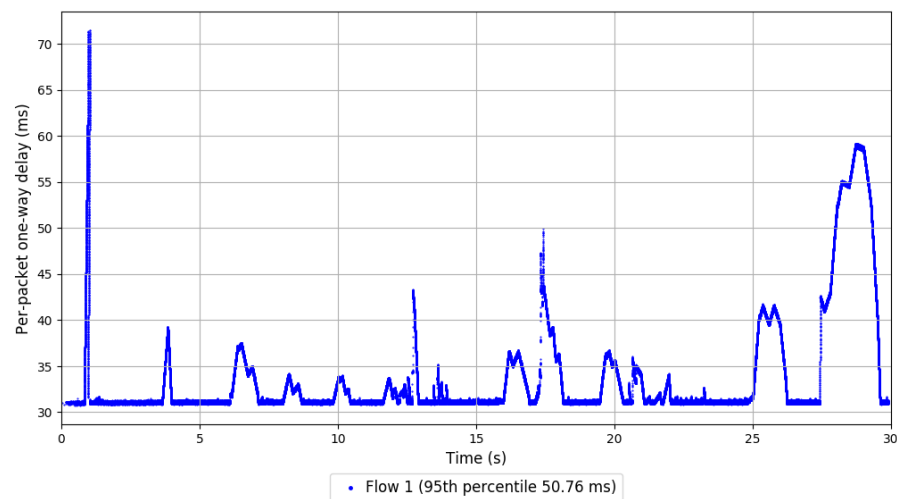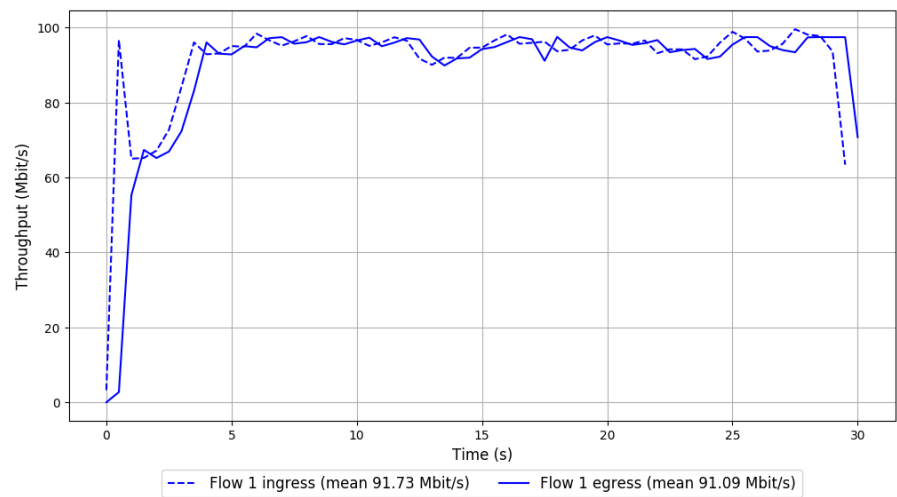
Run 9: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 91.73 Mbit/s)   Flow 1 egress (mean 91.09 Mbit/s)

Flow 1 (95th percentile 50.76 ms)

```
Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 11:41:48
End at: 2018-05-30 11:42:18
Local clock offset: 1.265 ms
Remote clock offset: 0.211 ms


# Below is generated by plot.py at 2018-05-30 12:08:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.04 Mbit/s
95th percentile per-packet one-way delay: 36.315 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 91.04 Mbit/s
95th percentile per-packet one-way delay: 36.315 ms
Loss rate: 0.71%
```
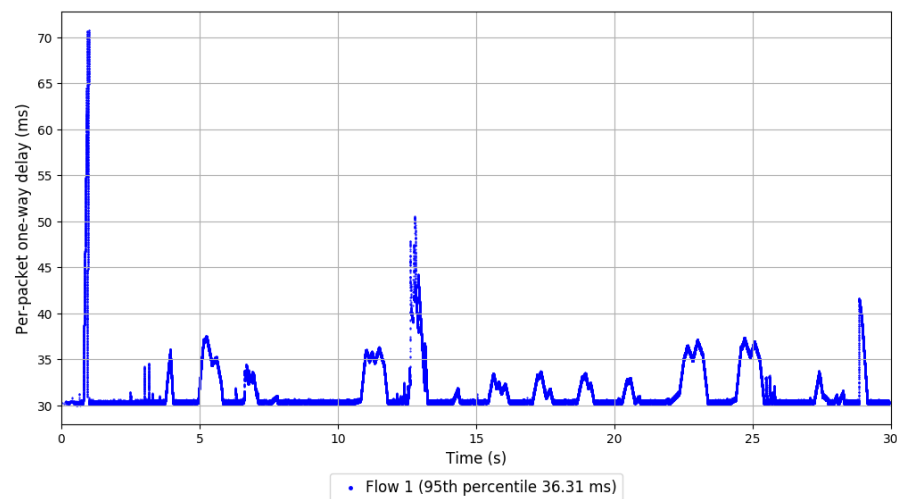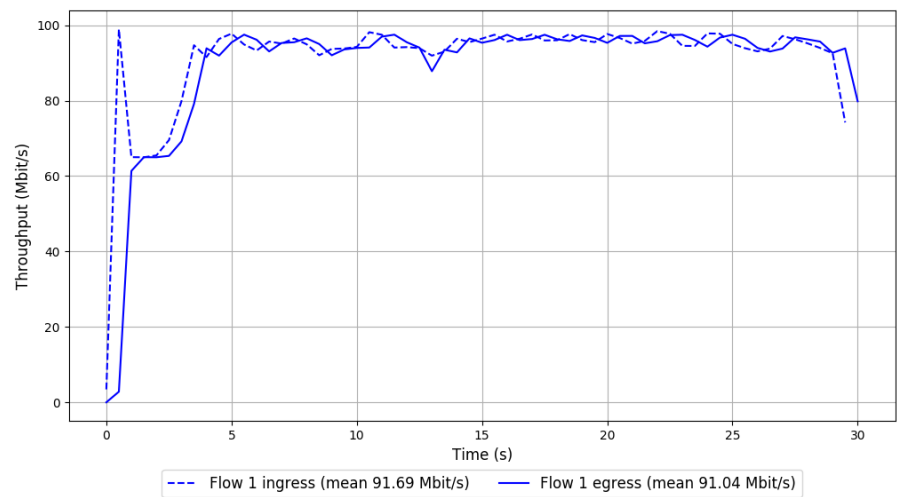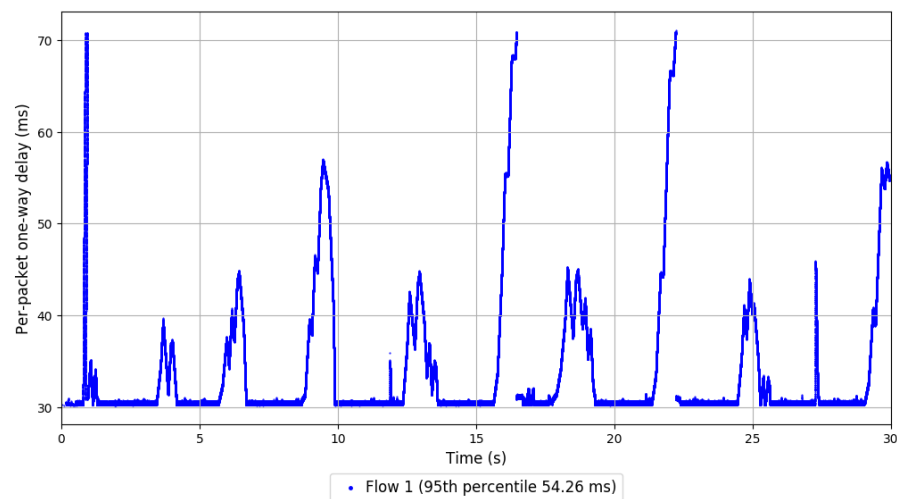
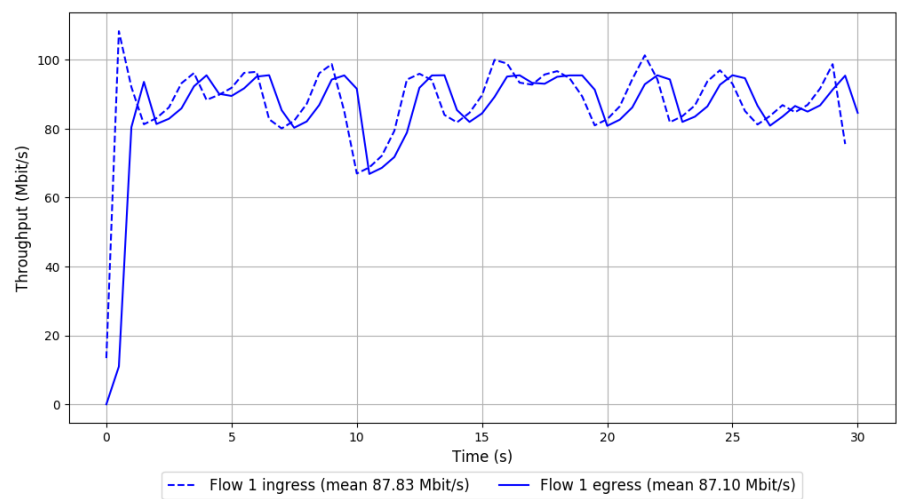Run 10: Report of PCC-Allegro — Data Link

```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 08:27:02
End at: 2018-05-30 08:27:32
Local clock offset: 1.4 ms
Remote clock offset: -2.14 ms


# Below is generated by plot.py at 2018-05-30 12:09:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 54.256 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 87.10 Mbit/s
95th percentile per-packet one-way delay: 54.256 ms
Loss rate: 0.75%
```

Run 1: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 87.83 Mbit/s)   Flow 1 egress (mean 87.10 Mbit/s)
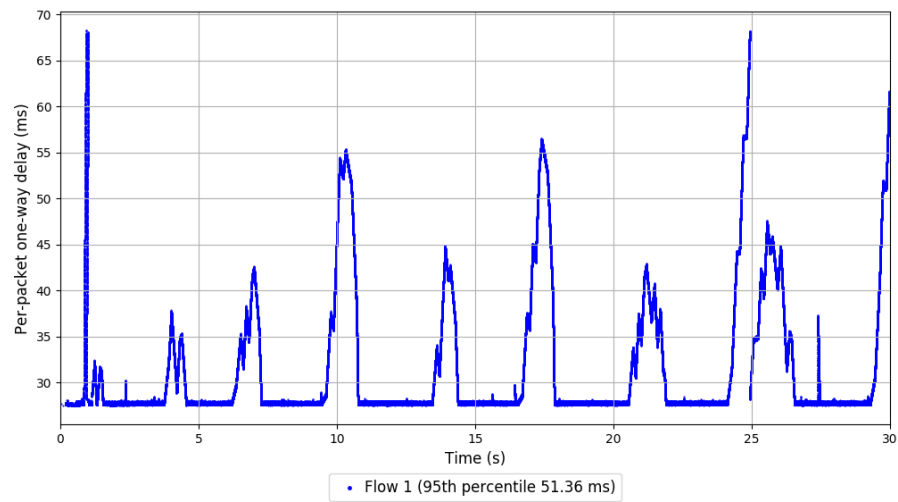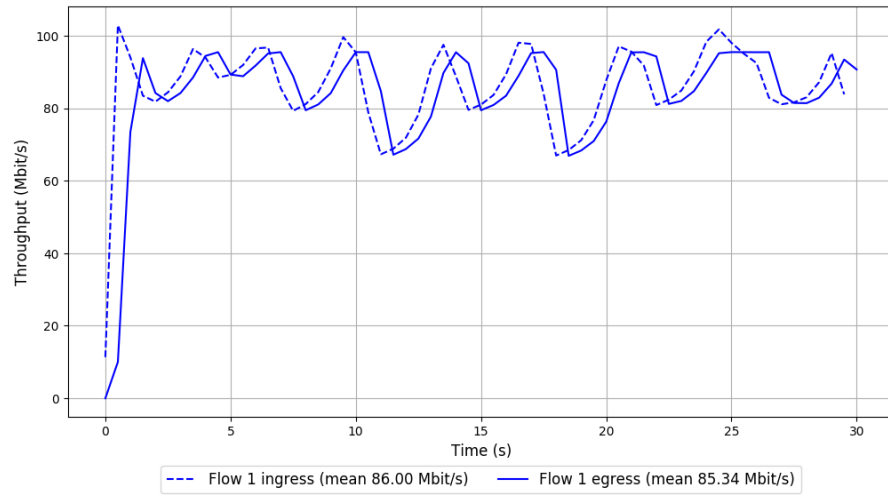

Flow 1 (95th percentile 54.26 ms)

```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 08:47:54
End at: 2018-05-30 08:48:24
Local clock offset: 1.493 ms
Remote clock offset: -5.497 ms


# Below is generated by plot.py at 2018-05-30 12:09:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 51.363 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 85.34 Mbit/s
95th percentile per-packet one-way delay: 51.363 ms
Loss rate: 0.66%
```

Run 2: Report of PCC-Expr — Data Link

```
Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 09:08:48
End at: 2018-05-30 09:09:18
Local clock offset: 1.317 ms
Remote clock offset: -3.254 ms


# Below is generated by plot.py at 2018-05-30 12:10:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.40 Mbit/s
95th percentile per-packet one-way delay: 63.049 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 85.40 Mbit/s
95th percentile per-packet one-way delay: 63.049 ms
Loss rate: 0.51%
```
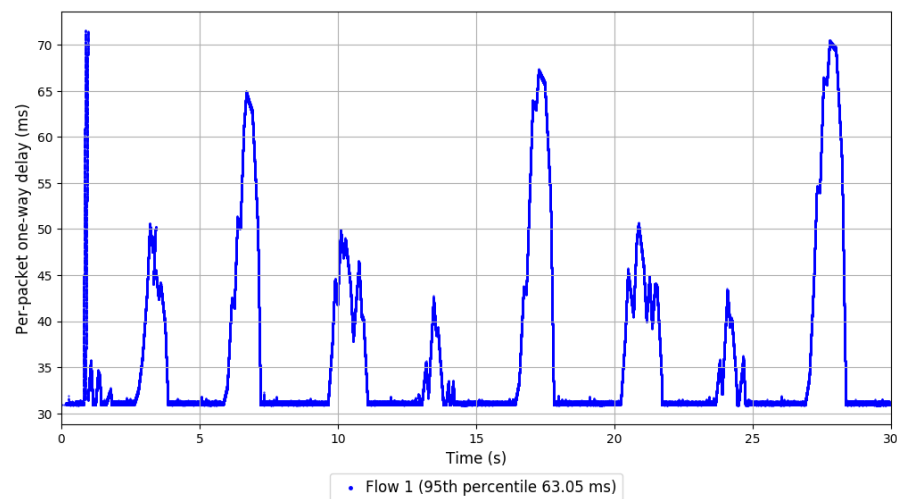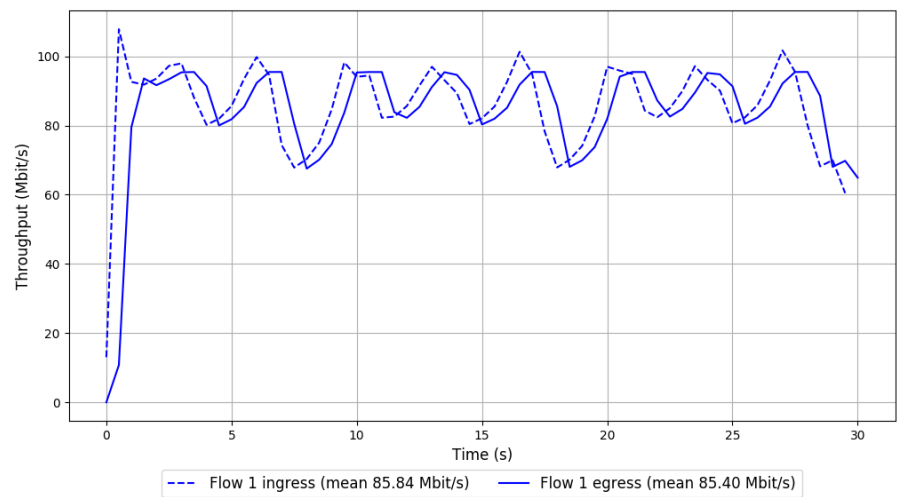
Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 85.84 Mbit/s) —— Flow 1 egress (mean 85.40 Mbit/s)
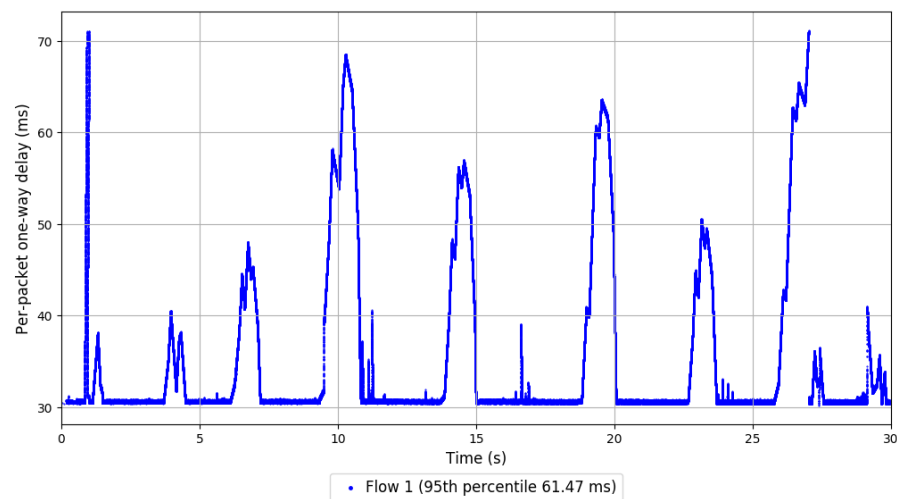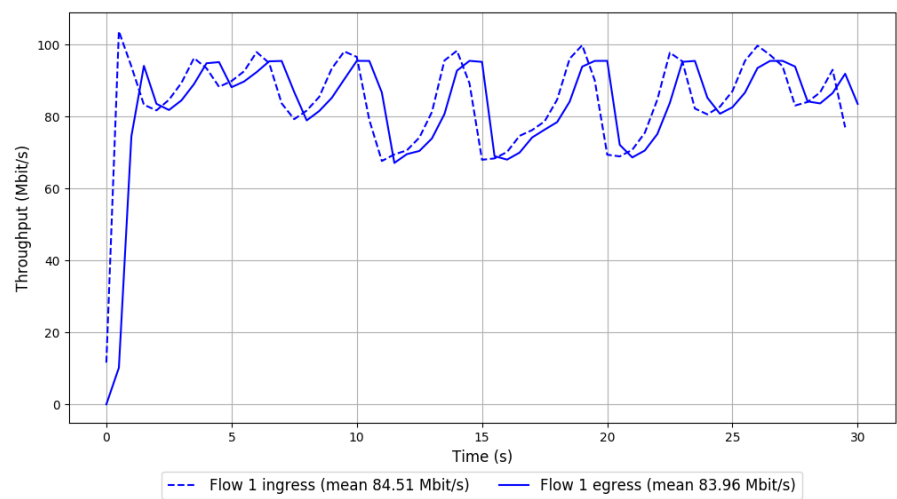

Flow 1 (95th percentile 63.05 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 09:29:42
End at: 2018-05-30 09:30:12
Local clock offset: 0.611 ms
Remote clock offset: -0.746 ms


# Below is generated by plot.py at 2018-05-30 12:10:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.96 Mbit/s
95th percentile per-packet one-way delay: 61.465 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 83.96 Mbit/s
95th percentile per-packet one-way delay: 61.465 ms
Loss rate: 0.66%
```
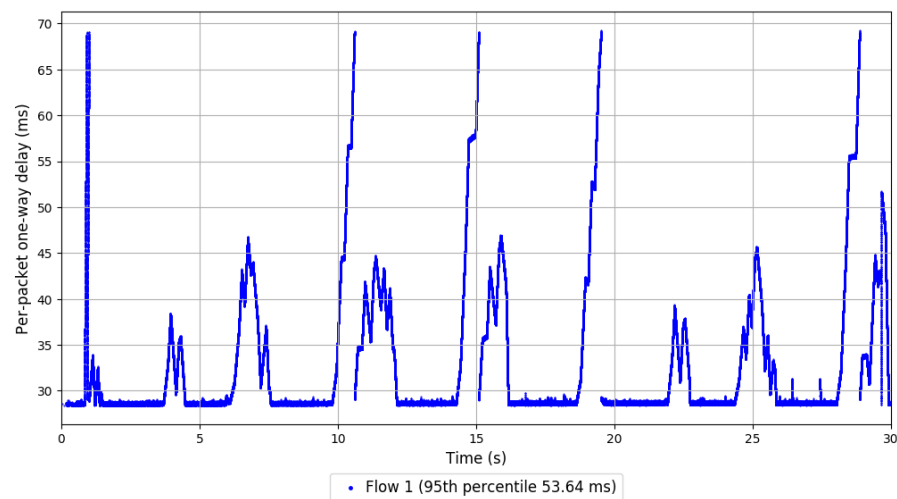
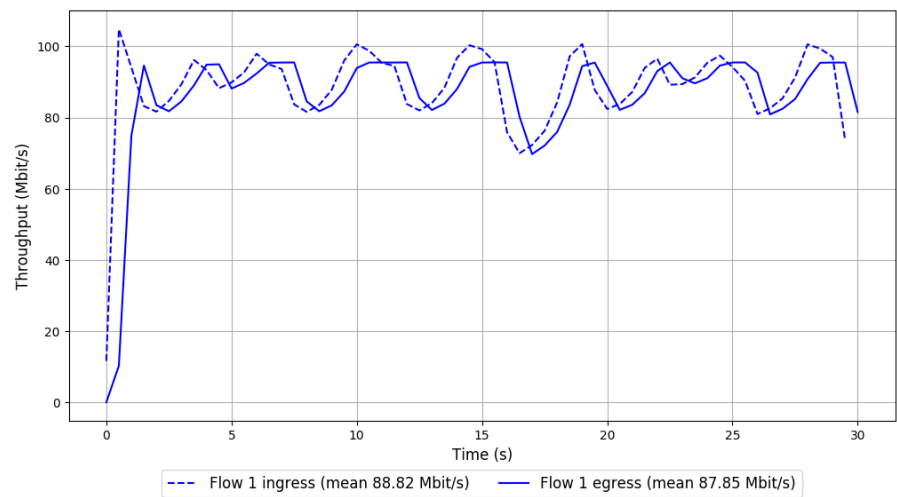Run 4: Report of PCC-Expr — Data Link

```
Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 09:50:40
End at: 2018-05-30 09:51:10
Local clock offset: 1.407 ms
Remote clock offset: -1.345 ms


# Below is generated by plot.py at 2018-05-30 12:10:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 53.641 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 87.85 Mbit/s
95th percentile per-packet one-way delay: 53.641 ms
Loss rate: 1.09%
```

Run 5: Report of PCC-Expr — Data Link

```
Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 10:11:37
End at: 2018-05-30 10:12:07
Local clock offset: 1.307 ms
Remote clock offset: 0.571 ms


# Below is generated by plot.py at 2018-05-30 12:10:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 63.742 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 63.742 ms
Loss rate: 0.50%
```
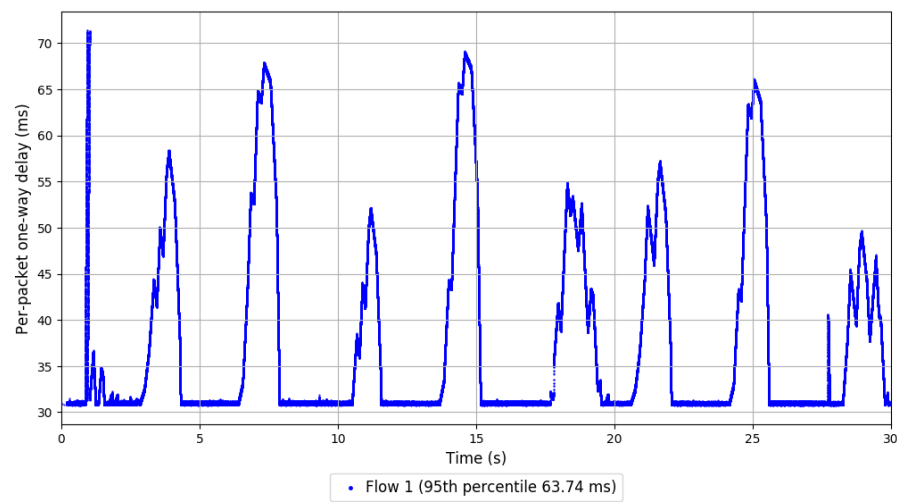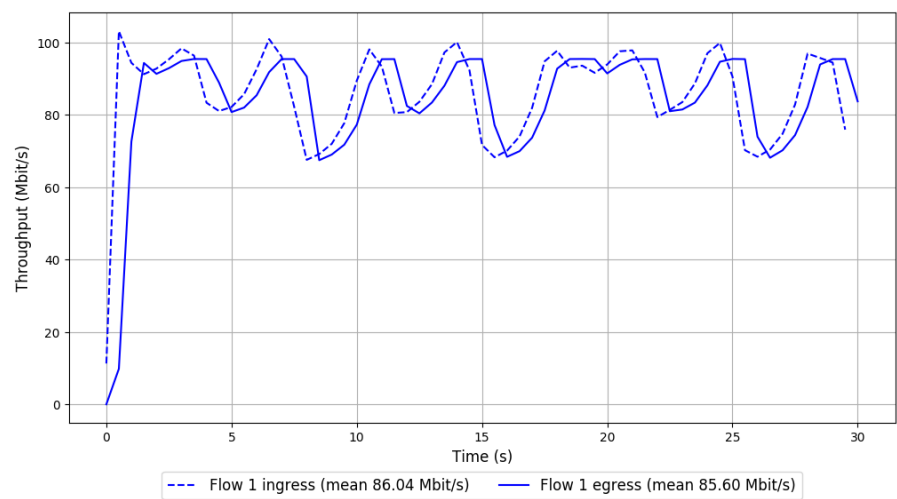
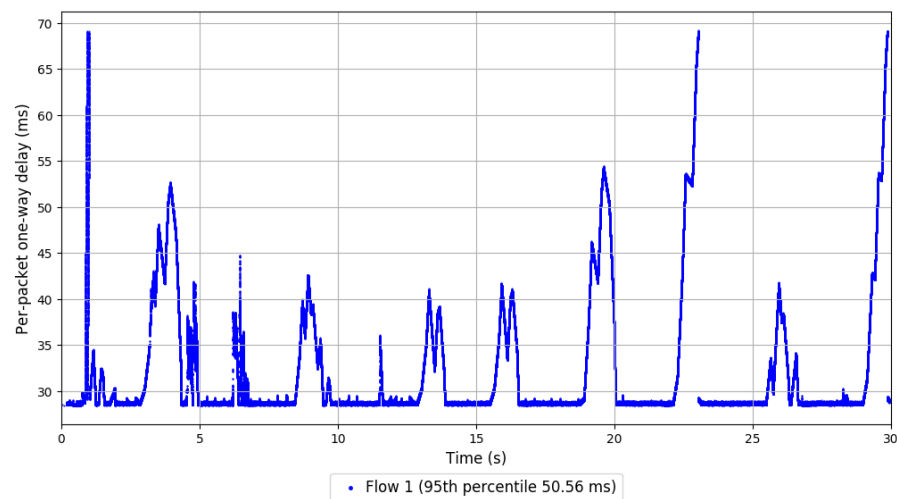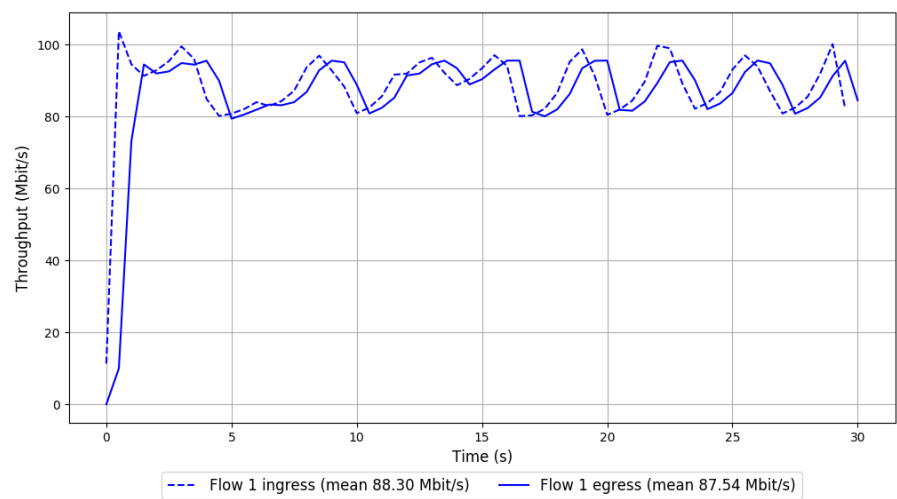Run 6: Report of PCC-Expr — Data Link

```
Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 10:32:32
End at: 2018-05-30 10:33:02
Local clock offset: 0.757 ms
Remote clock offset: -2.187 ms


# Below is generated by plot.py at 2018-05-30 12:10:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.54 Mbit/s
95th percentile per-packet one-way delay: 50.562 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 87.54 Mbit/s
95th percentile per-packet one-way delay: 50.562 ms
Loss rate: 0.86%
```

Run 7: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 88.30 Mbit/s) --- Flow 1 egress (mean 87.54 Mbit/s)

Flow 1 (95th percentile 50.56 ms)

```
Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 10:53:24
End at: 2018-05-30 10:53:54
Local clock offset: 0.823 ms
Remote clock offset: 0.13 ms


# Below is generated by plot.py at 2018-05-30 12:10:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 58.658 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 87.59 Mbit/s
95th percentile per-packet one-way delay: 58.658 ms
Loss rate: 0.52%
```
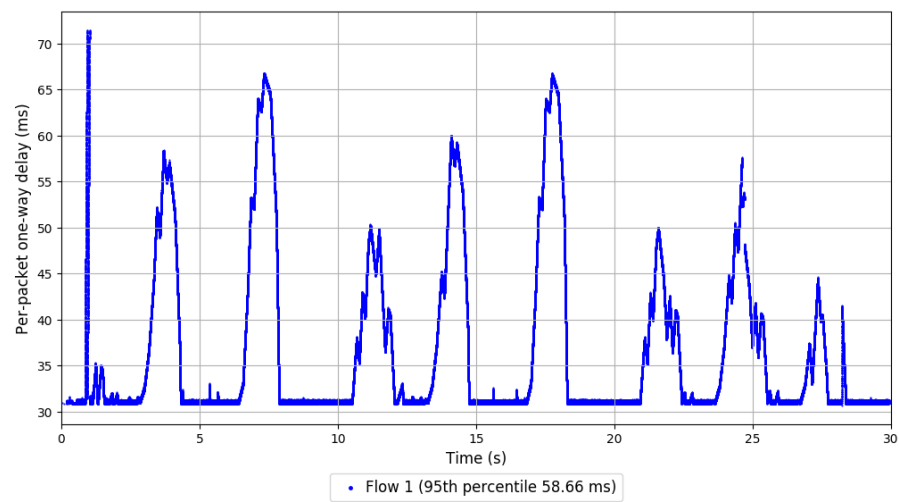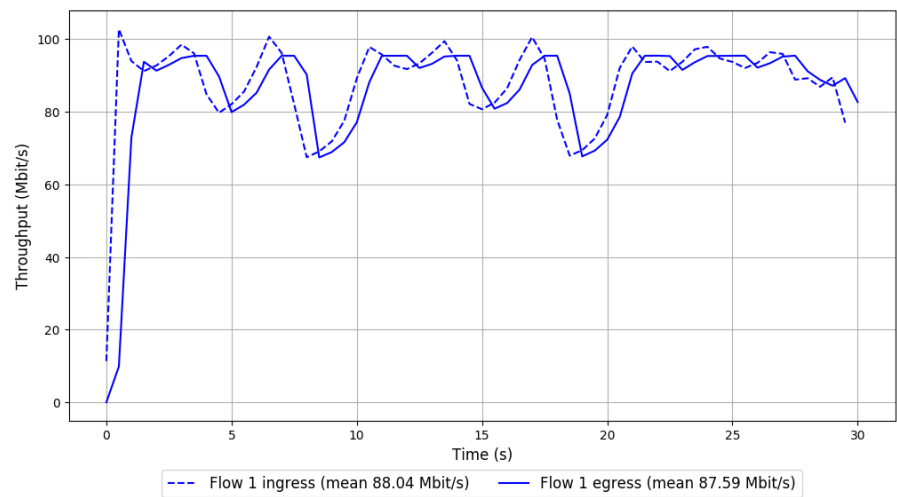
Run 8: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 88.04 Mbit/s)   Flow 1 egress (mean 87.59 Mbit/s)

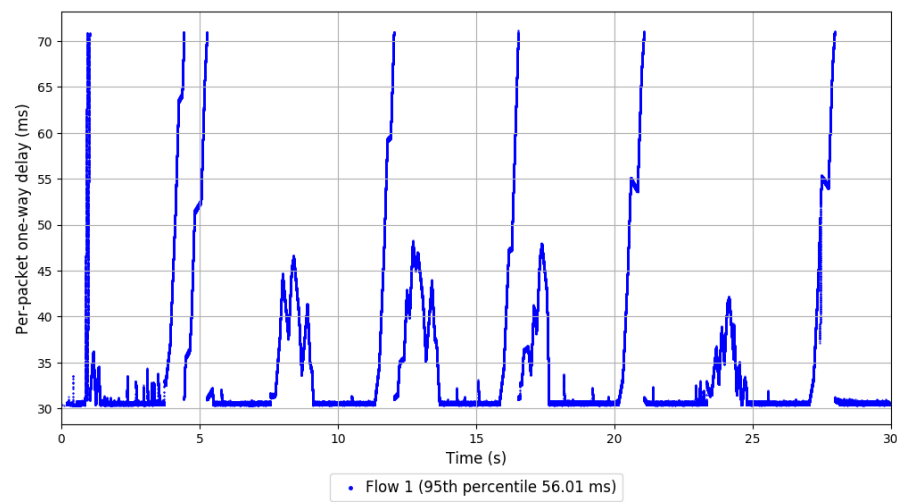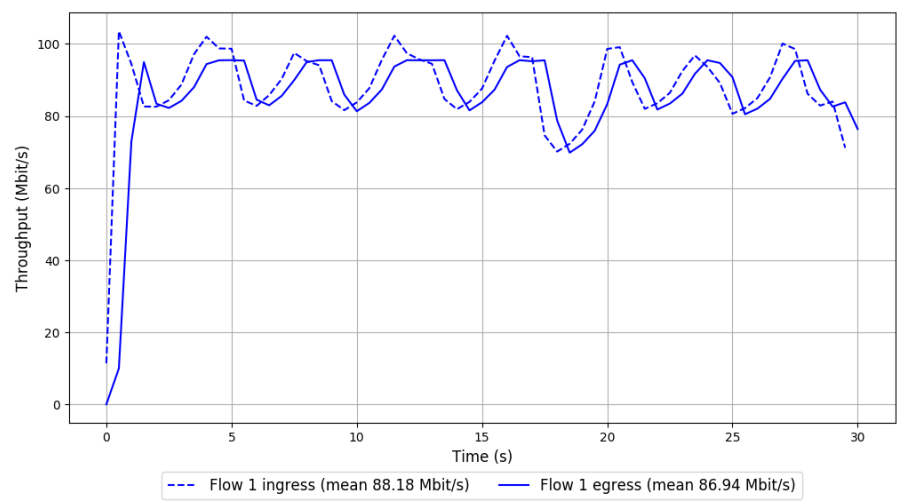

· Flow 1 (95th percentile 58.66 ms)

```
Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 11:14:19
End at: 2018-05-30 11:14:49
Local clock offset: 1.407 ms
Remote clock offset: -0.254 ms


# Below is generated by plot.py at 2018-05-30 12:12:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 56.007 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 86.94 Mbit/s
95th percentile per-packet one-way delay: 56.007 ms
Loss rate: 1.40%
```

Run 9: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 88.18 Mbit/s)   Flow 1 egress (mean 86.94 Mbit/s)

• Flow 1 (95th percentile 56.01 ms)

```
Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 11:35:12
End at: 2018-05-30 11:35:42
Local clock offset: 1.869 ms
Remote clock offset: 0.231 ms


# Below is generated by plot.py at 2018-05-30 12:12:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.24 Mbit/s
95th percentile per-packet one-way delay: 61.719 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 86.24 Mbit/s
95th percentile per-packet one-way delay: 61.719 ms
Loss rate: 0.80%
```
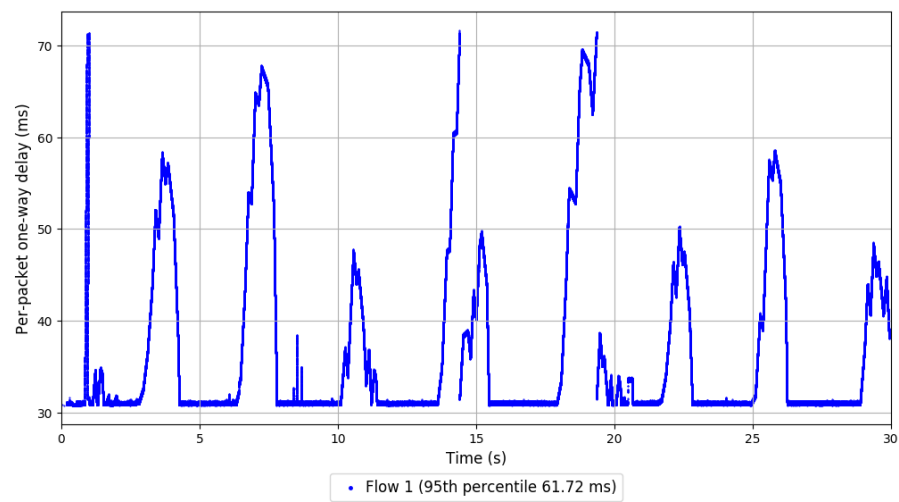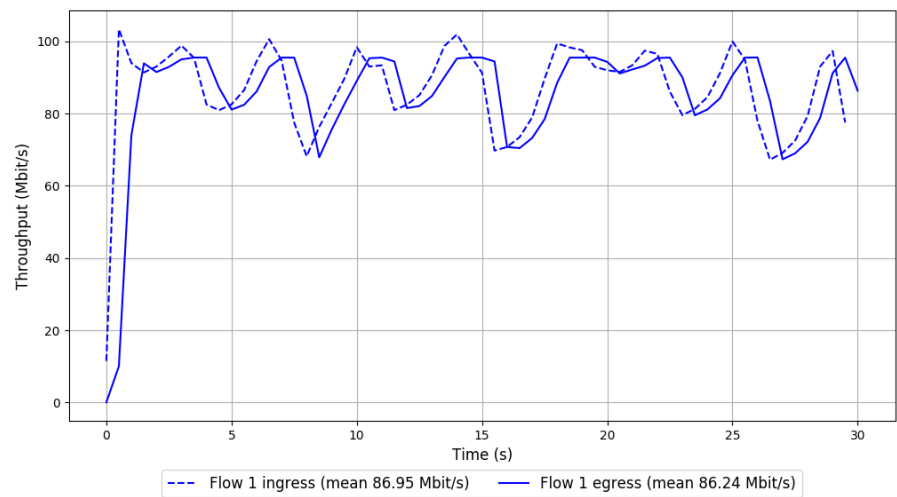
Run 10: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 86.95 Mbit/s) —— Flow 1 egress (mean 86.24 Mbit/s)

• Flow 1 (95th percentile 61.72 ms)

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-30 08:29:43
End at: 2018-05-30 08:30:13
Local clock offset: 1.528 ms
Remote clock offset: -2.818 ms
```
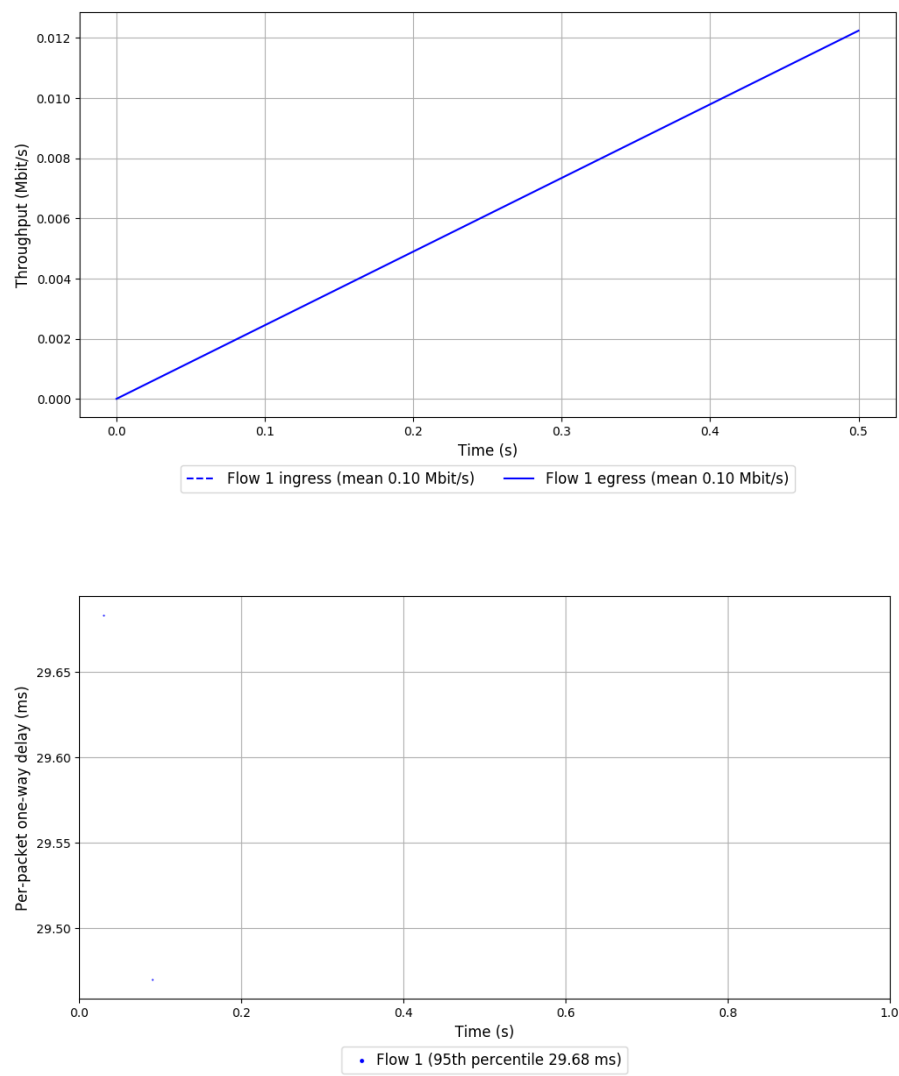
Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 08:50:35
End at: 2018-05-30 08:51:05
Local clock offset: 1.478 ms
Remote clock offset: -2.999 ms


# Below is generated by plot.py at 2018-05-30 12:12:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.65 Mbit/s
95th percentile per-packet one-way delay: 67.016 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 83.65 Mbit/s
95th percentile per-packet one-way delay: 67.016 ms
Loss rate: 1.48%
```
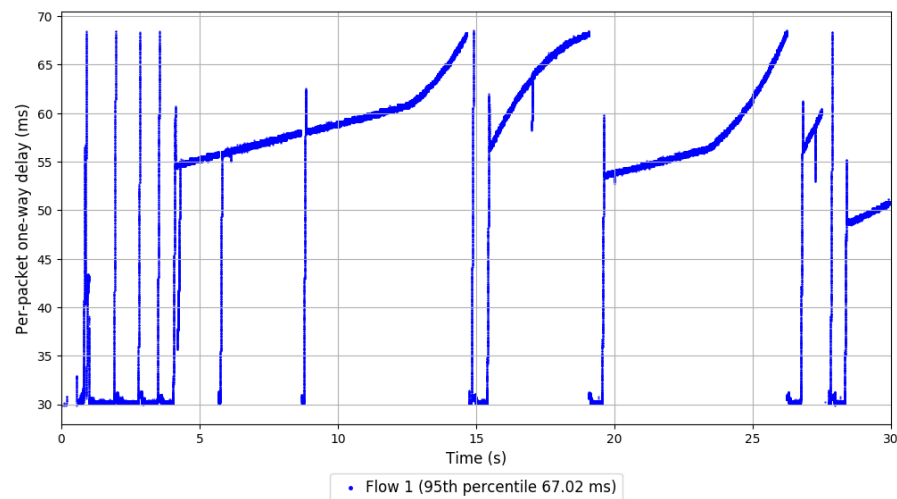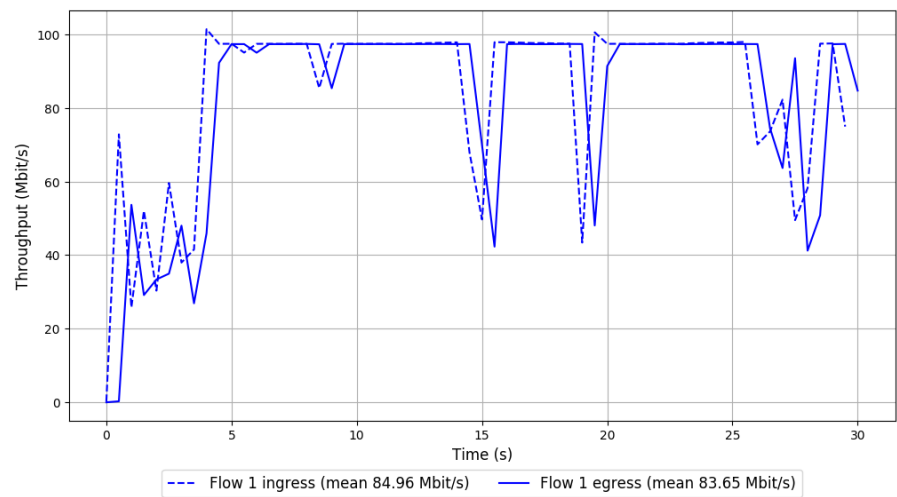
Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 09:11:29
End at: 2018-05-30 09:11:59
Local clock offset: 1.16 ms
Remote clock offset: -3.86 ms


# Below is generated by plot.py at 2018-05-30 12:12:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.41 Mbit/s
95th percentile per-packet one-way delay: 62.744 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 85.41 Mbit/s
95th percentile per-packet one-way delay: 62.744 ms
Loss rate: 1.01%
```
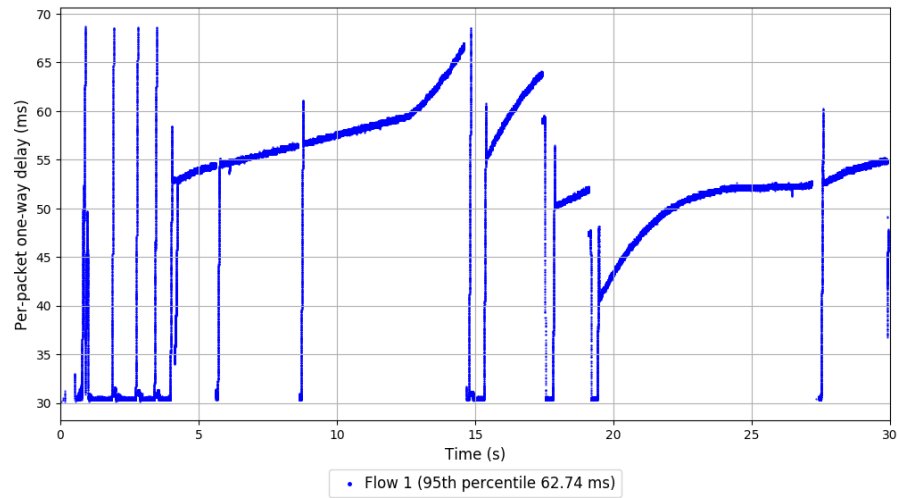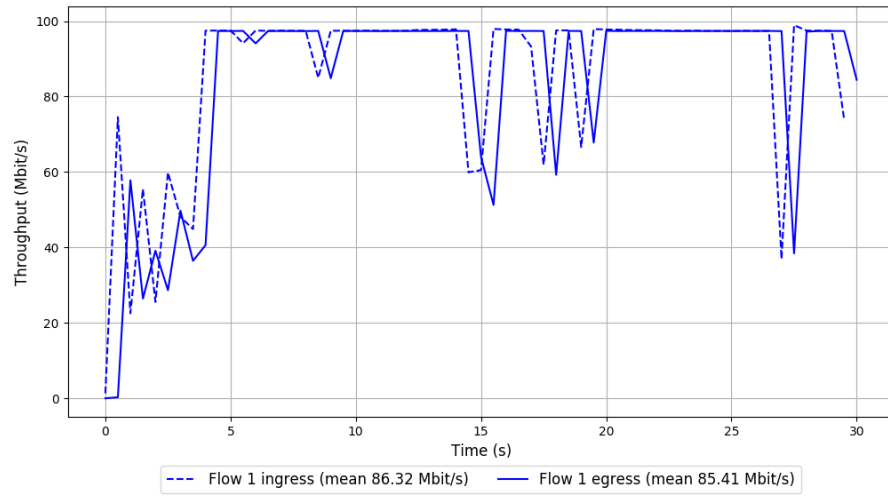
Run 3: Report of QUIC Cubic — Data Link

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```
Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 09:32:23
End at: 2018-05-30 09:32:53
Local clock offset: 0.679 ms
Remote clock offset: -0.411 ms


# Below is generated by plot.py at 2018-05-30 12:12:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.49 Mbit/s
95th percentile per-packet one-way delay: 65.380 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 83.49 Mbit/s
95th percentile per-packet one-way delay: 65.380 ms
Loss rate: 1.12%
```
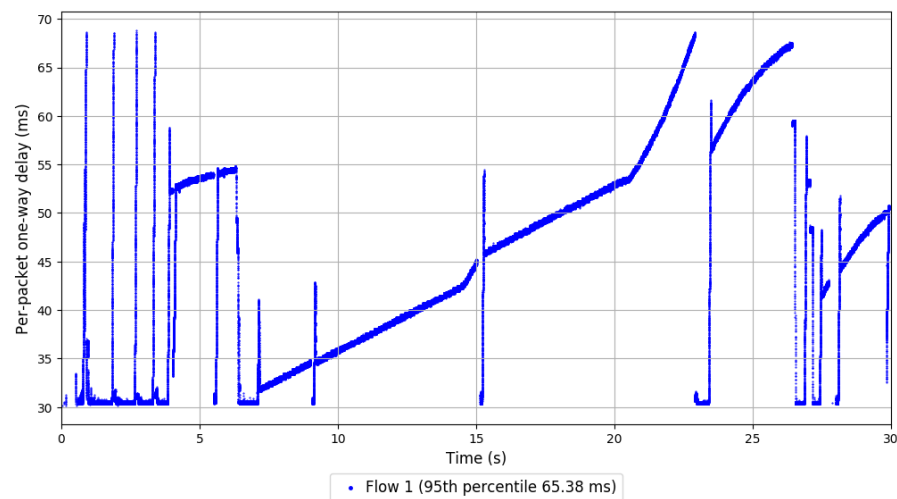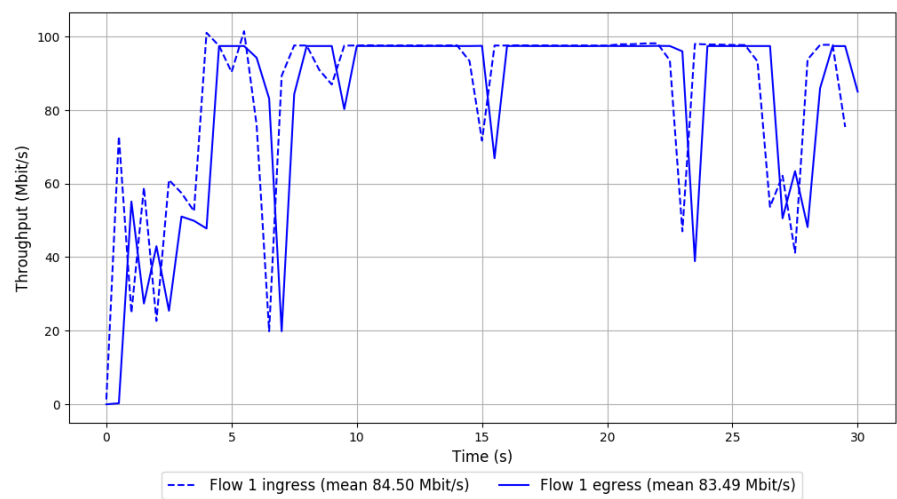
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 84.50 Mbit/s) --- Flow 1 egress (mean 83.49 Mbit/s)

Flow 1 (95th percentile 65.38 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 09:53:21
End at: 2018-05-30 09:53:51
Local clock offset: 1.475 ms
Remote clock offset: 0.899 ms


# Below is generated by plot.py at 2018-05-30 12:12:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 67.965 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 85.07 Mbit/s
95th percentile per-packet one-way delay: 67.965 ms
Loss rate: 1.18%
```
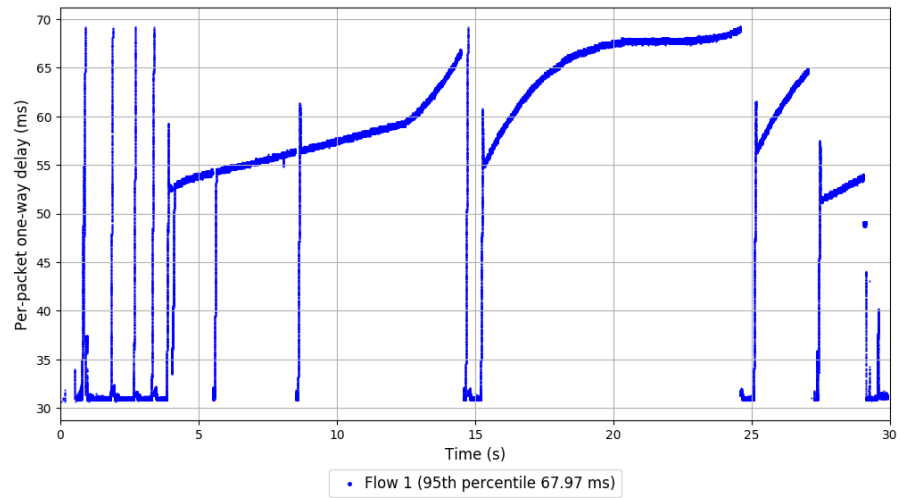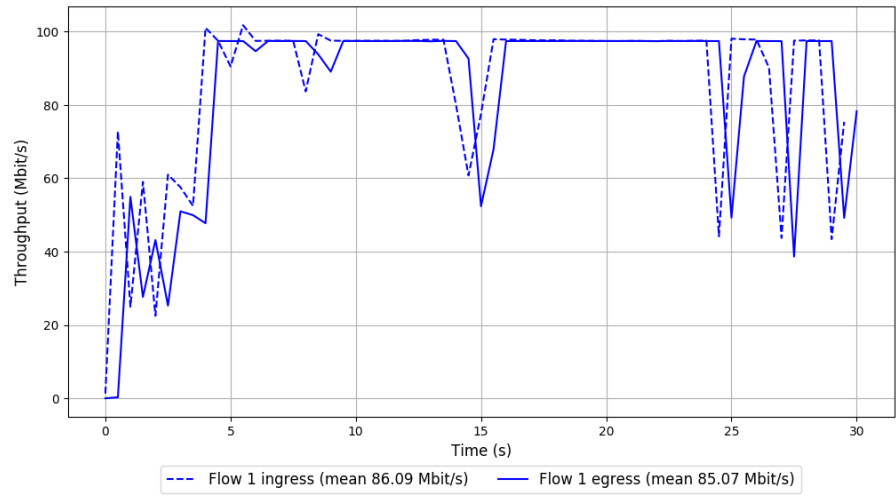
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 86.09 Mbit/s) --- Flow 1 egress (mean 85.07 Mbit/s)

Flow 1 (95th percentile 67.97 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 10:14:18
End at: 2018-05-30 10:14:48
Local clock offset: 1.188 ms
Remote clock offset: -2.018 ms


# Below is generated by plot.py at 2018-05-30 12:12:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.39 Mbit/s
95th percentile per-packet one-way delay: 62.689 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 83.39 Mbit/s
95th percentile per-packet one-way delay: 62.689 ms
Loss rate: 1.14%
```
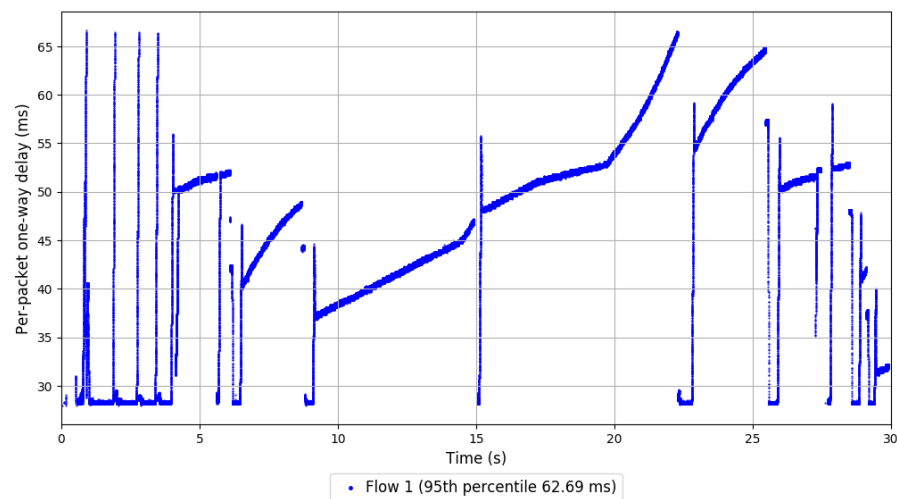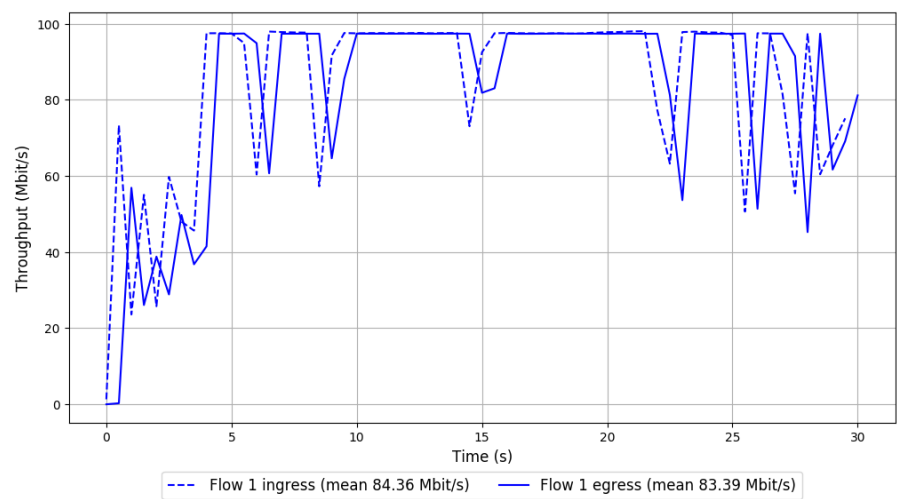
Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 84.36 Mbit/s) — — — Flow 1 egress (mean 83.39 Mbit/s)

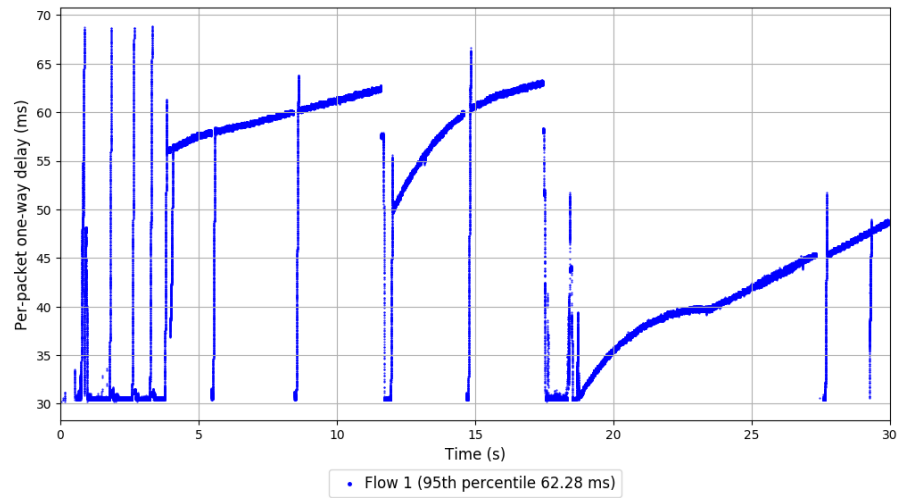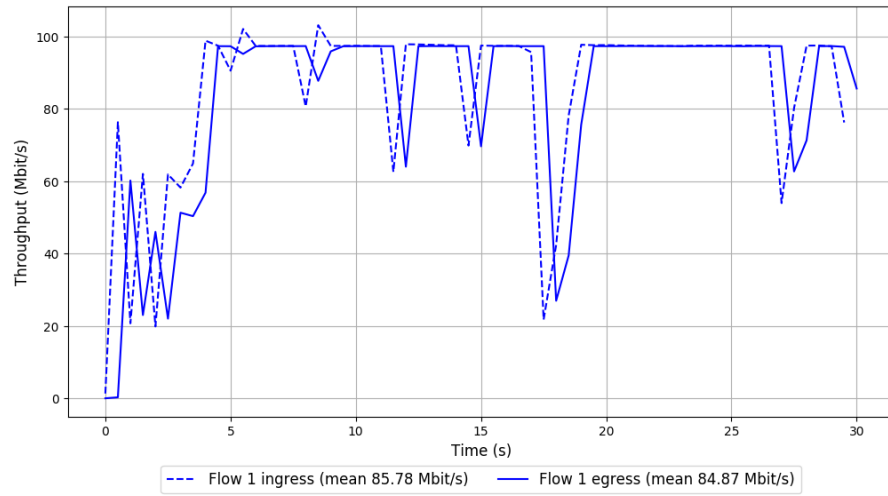

· Flow 1 (95th percentile 62.69 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 10:35:13
End at: 2018-05-30 10:35:43
Local clock offset: 0.822 ms
Remote clock offset: -0.197 ms


# Below is generated by plot.py at 2018-05-30 12:12:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 62.279 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 84.87 Mbit/s
95th percentile per-packet one-way delay: 62.279 ms
Loss rate: 1.00%
```

Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 85.78 Mbit/s) --- Flow 1 egress (mean 84.87 Mbit/s)

• Flow 1 (95th percentile 62.28 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 10:56:06
End at: 2018-05-30 10:56:36
Local clock offset: 0.898 ms
Remote clock offset: -0.378 ms


# Below is generated by plot.py at 2018-05-30 12:12:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.75 Mbit/s
95th percentile per-packet one-way delay: 63.215 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 84.75 Mbit/s
95th percentile per-packet one-way delay: 63.215 ms
Loss rate: 1.20%
```
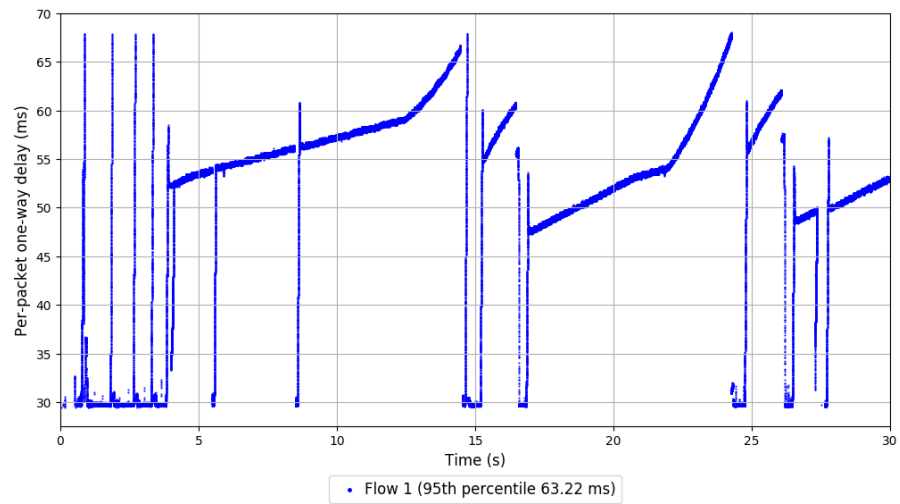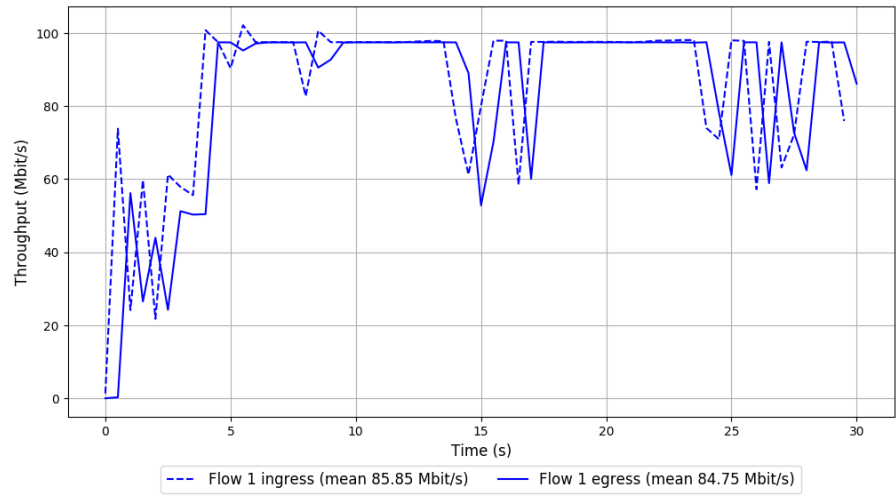
Run 8: Report of QUIC Cubic — Data Link

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 11:16:59
End at: 2018-05-30 11:17:29
Local clock offset: 1.527 ms
Remote clock offset: -2.275 ms


# Below is generated by plot.py at 2018-05-30 12:12:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 64.962 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 64.962 ms
Loss rate: 0.91%
```
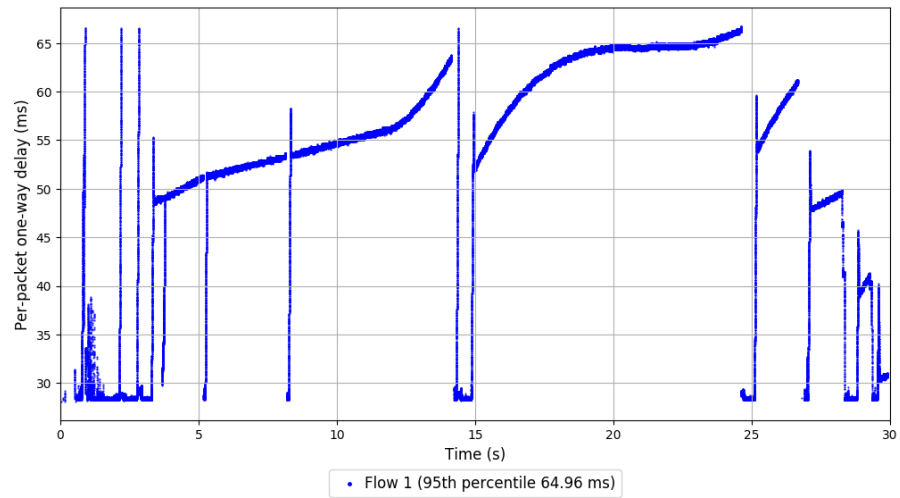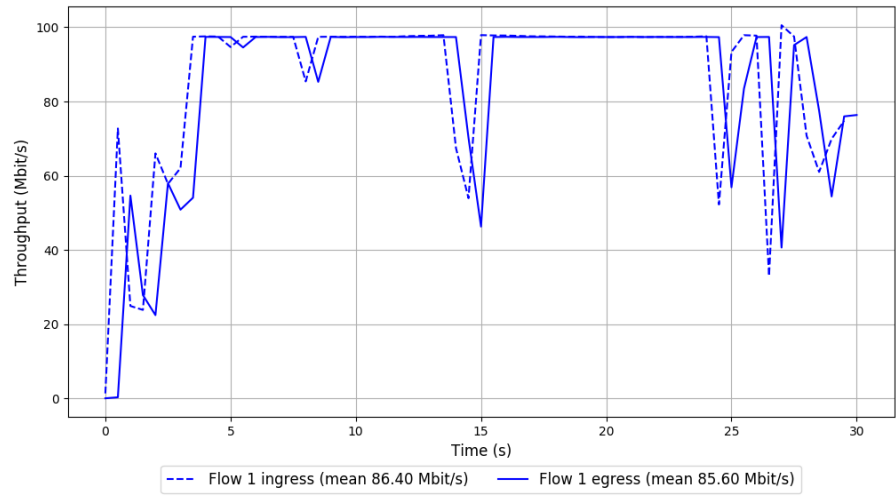
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 86.40 Mbit/s) --- Flow 1 egress (mean 85.60 Mbit/s)

Flow 1 (95th percentile 64.96 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 11:37:52
End at: 2018-05-30 11:38:22
Local clock offset: 1.708 ms
Remote clock offset: -2.382 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.86 Mbit/s
95th percentile per-packet one-way delay: 64.471 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 84.86 Mbit/s
95th percentile per-packet one-way delay: 64.471 ms
Loss rate: 1.21%
```
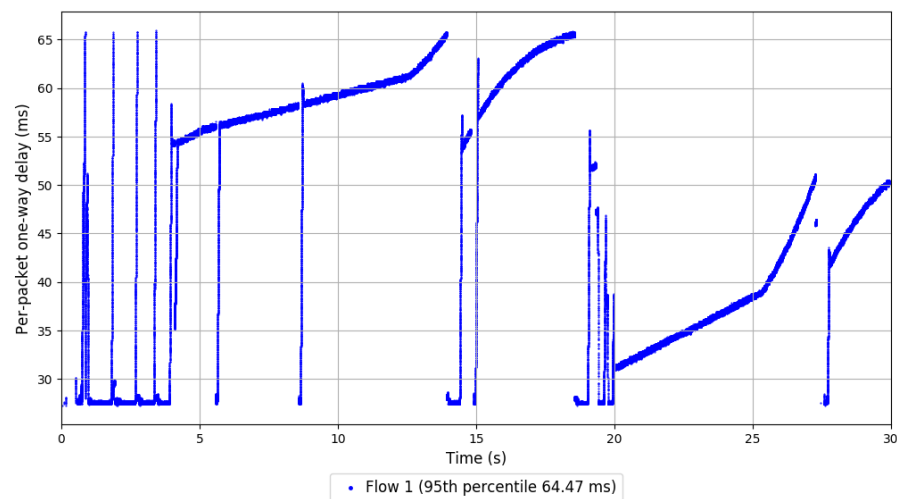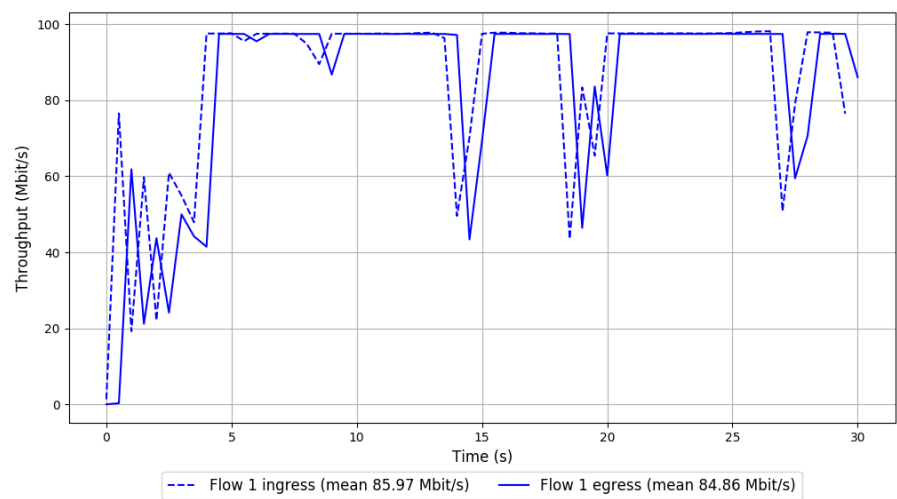
Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 85.97 Mbit/s) --- Flow 1 egress (mean 84.86 Mbit/s)

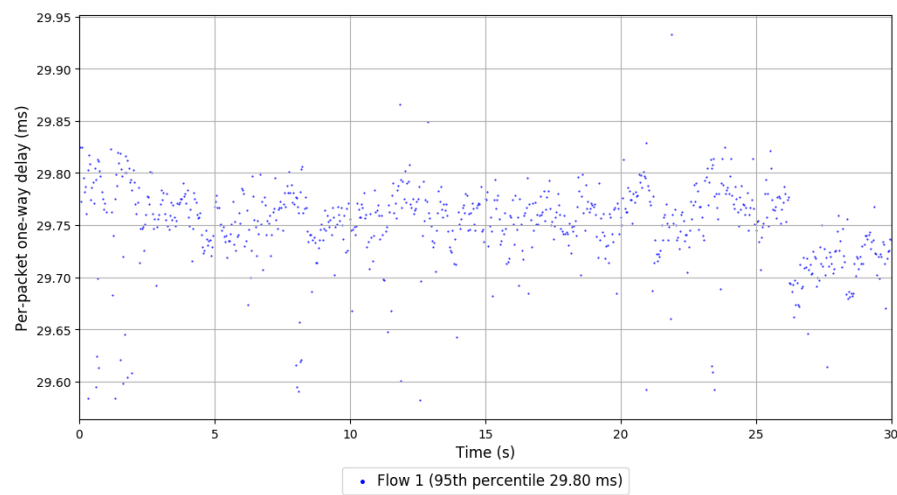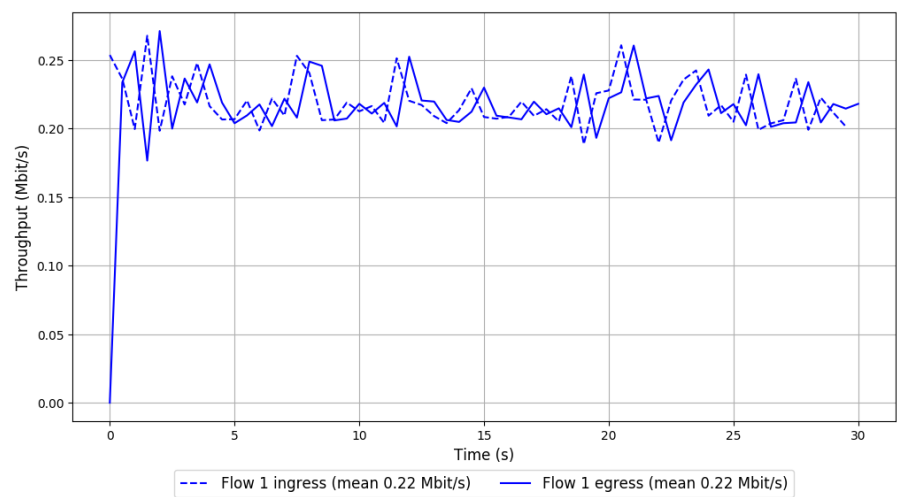

• Flow 1 (95th percentile 64.47 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-05-30 08:36:13
End at: 2018-05-30 08:36:43
Local clock offset: 1.624 ms
Remote clock offset: -3.043 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.801 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.801 ms
Loss rate: 0.00%
```
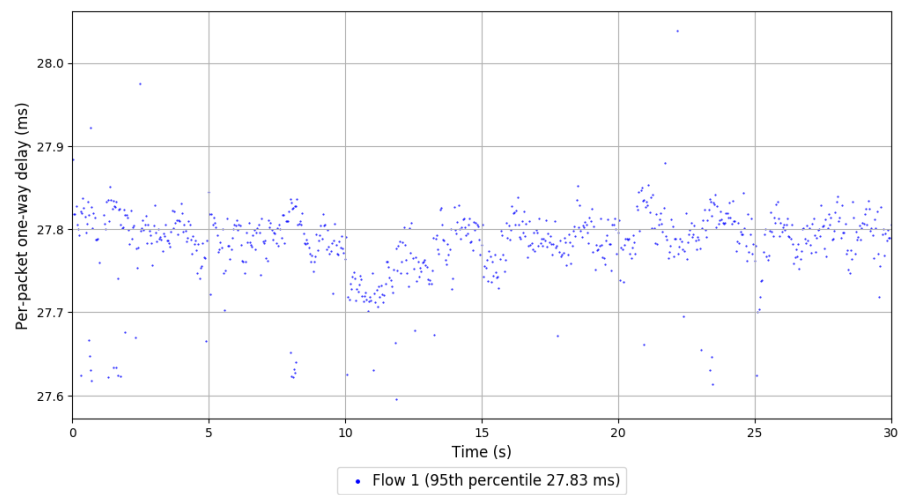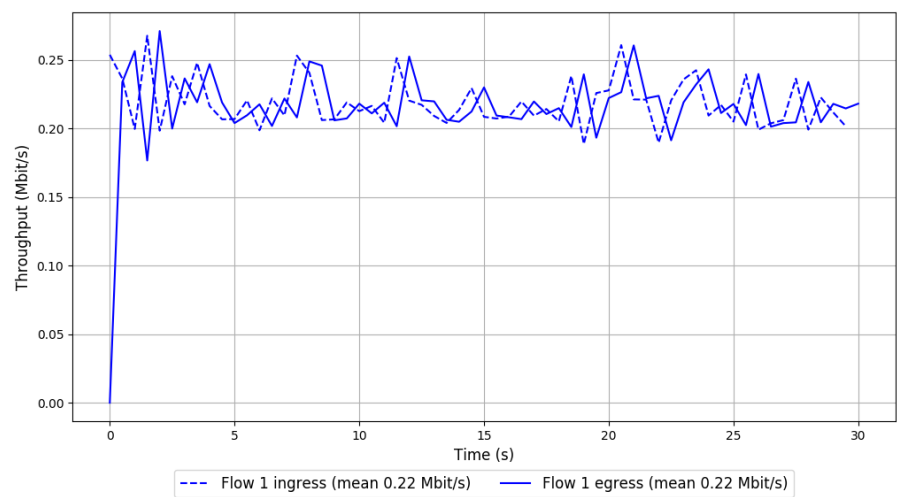
Run 1: Report of SCReAM — Data Link

```
Run 2: Statistics of SCReAM

Start at: 2018-05-30 08:57:09
End at: 2018-05-30 08:57:39
Local clock offset: 1.392 ms
Remote clock offset: -5.685 ms

# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.832 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 27.83 ms)

```
Run 3: Statistics of SCReAM

Start at: 2018-05-30 09:18:01
End at: 2018-05-30 09:18:31
Local clock offset: 0.922 ms
Remote clock offset: -5.35 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.223 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.223 ms
Loss rate: 0.00%
```
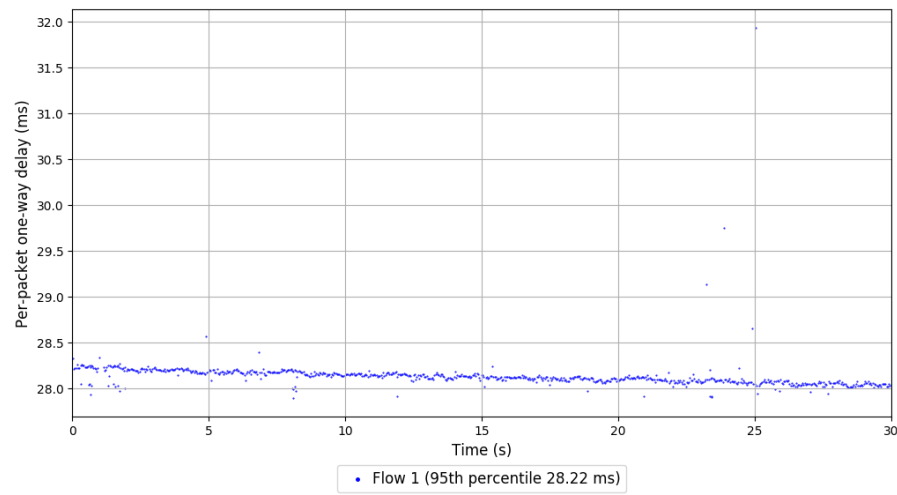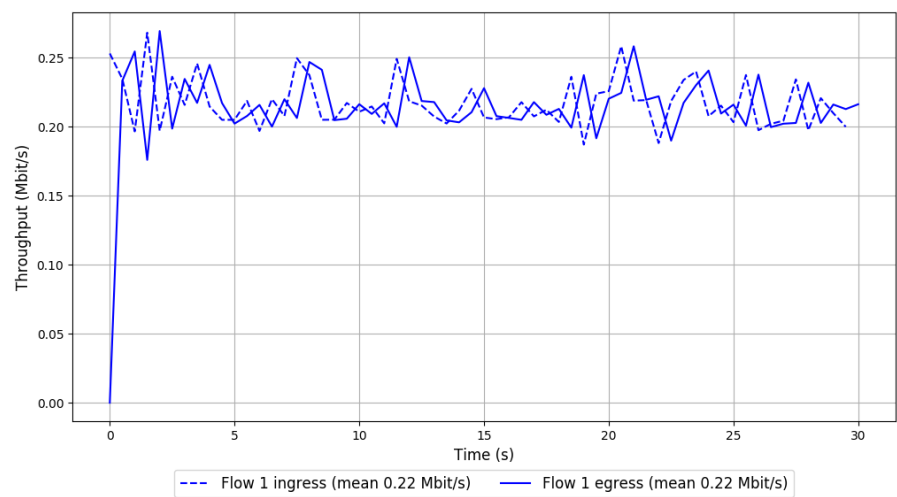
Run 3: Report of SCReAM — Data Link

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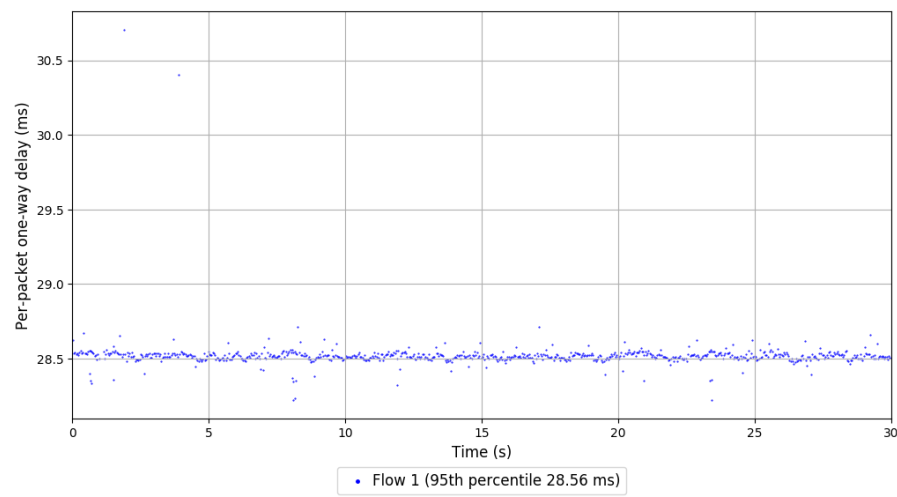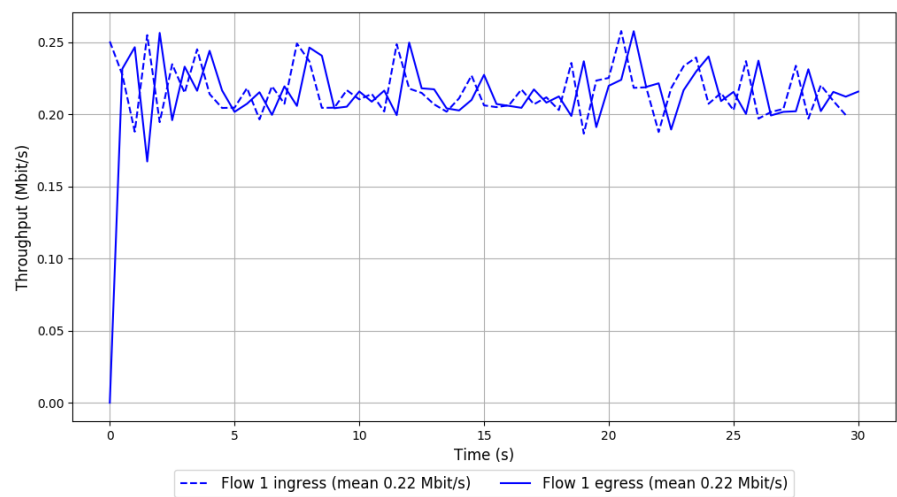

Flow 1 (95th percentile 28.22 ms)

```
Run 4: Statistics of SCReAM

Start at: 2018-05-30 09:38:58
End at: 2018-05-30 09:39:28
Local clock offset: 0.857 ms
Remote clock offset: -1.916 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.558 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link

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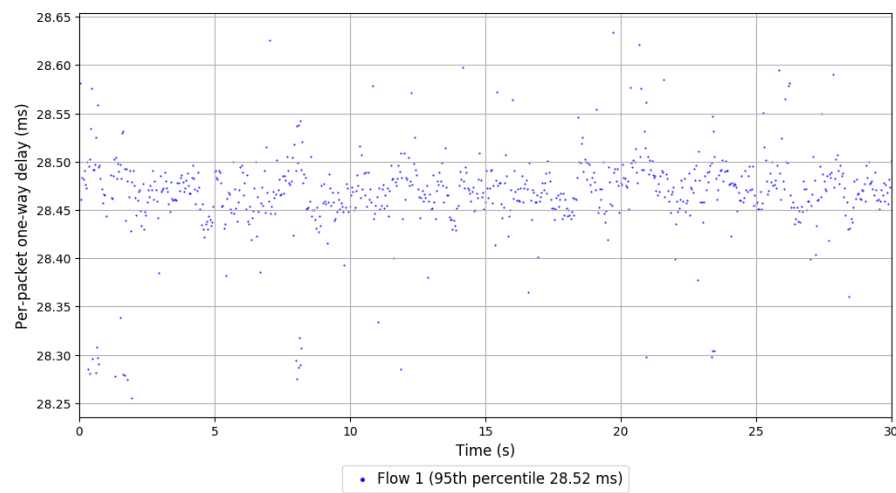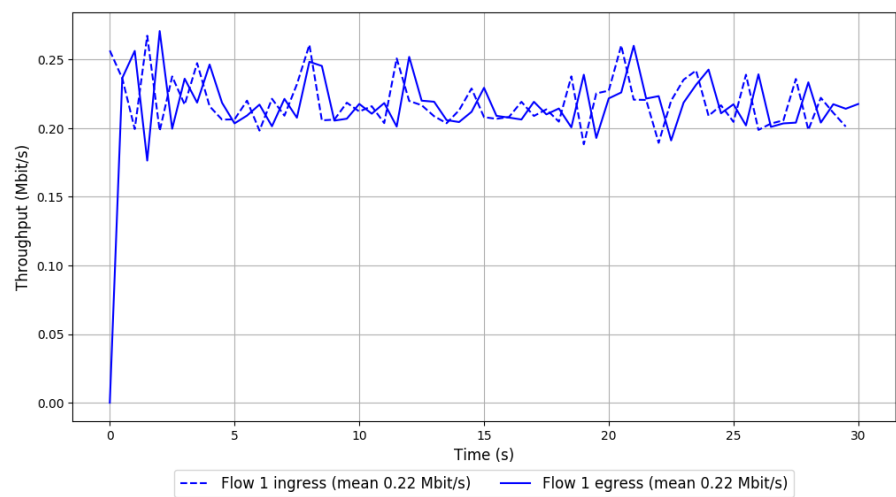

Flow 1 (95th percentile 28.56 ms)

```
Run 5: Statistics of SCReAM

Start at: 2018-05-30 09:59:56
End at: 2018-05-30 10:00:26
Local clock offset: 1.5 ms
Remote clock offset: -2.018 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.519 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.519 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link

```
Run 6: Statistics of SCReAM

Start at: 2018-05-30 10:20:53
End at: 2018-05-30 10:21:23
Local clock offset: 1.002 ms
Remote clock offset: 0.212 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.468 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.468 ms
Loss rate: 0.00%
```
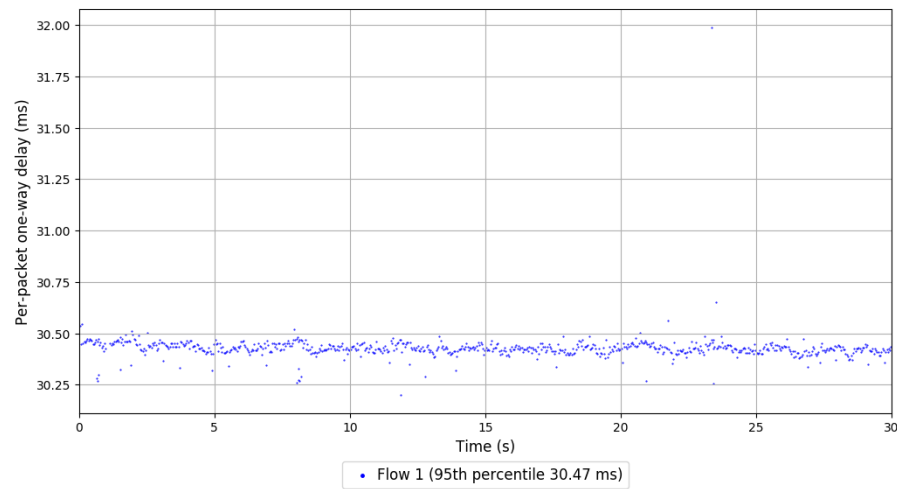
Run 6: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 30.47 ms)

```
Run 7: Statistics of SCReAM

Start at: 2018-05-30 10:41:46
End at: 2018-05-30 10:42:16
Local clock offset: 0.784 ms
Remote clock offset: -2.372 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.616 ms
Loss rate: 0.00%
```
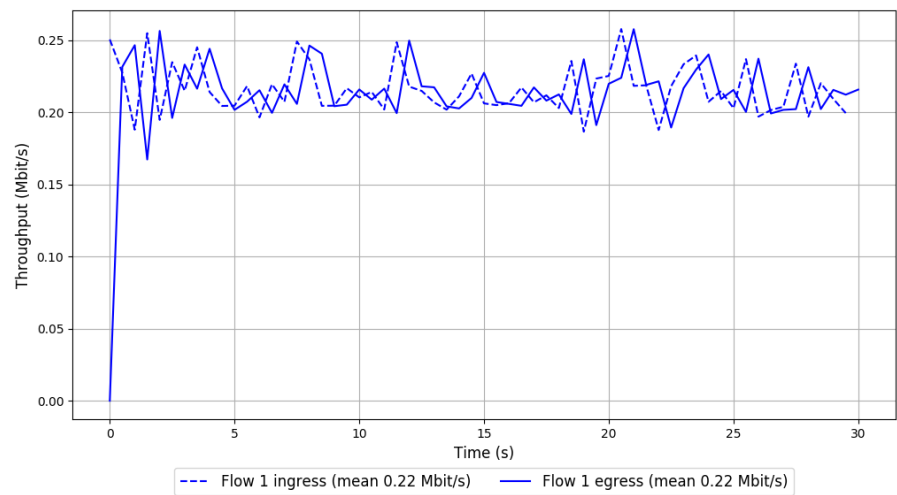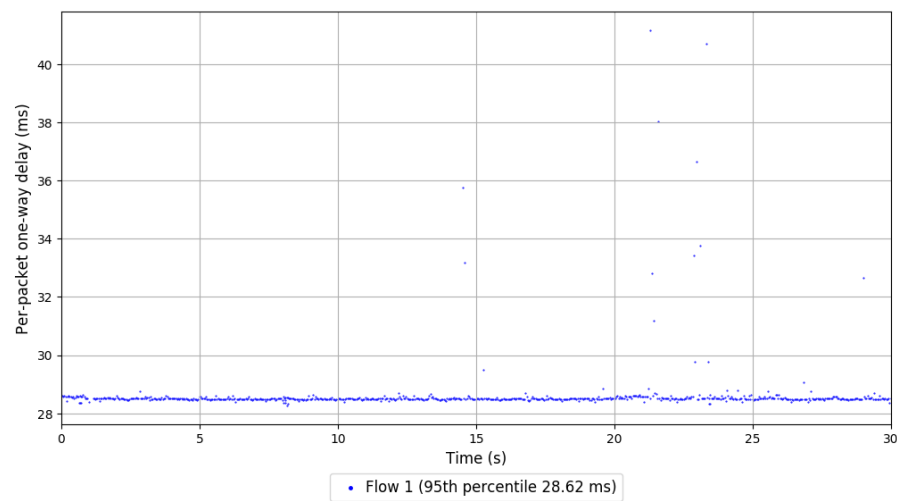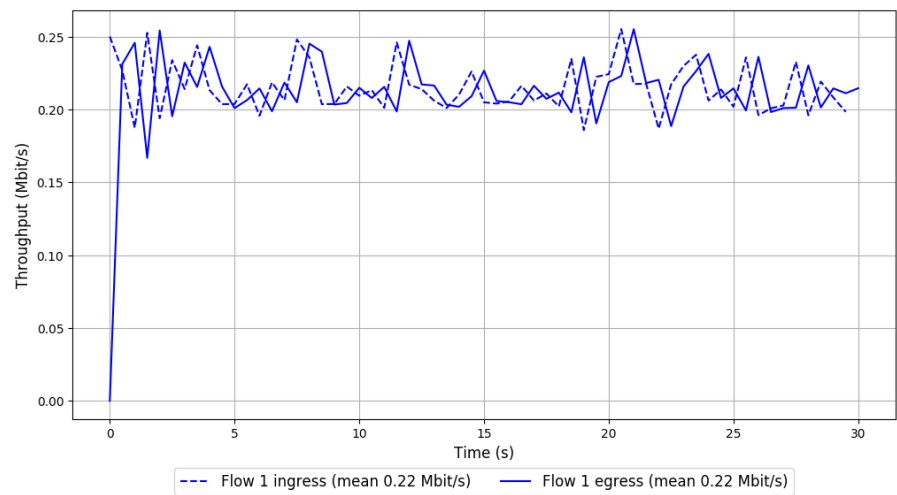
Run 7: Report of SCReAM — Data Link

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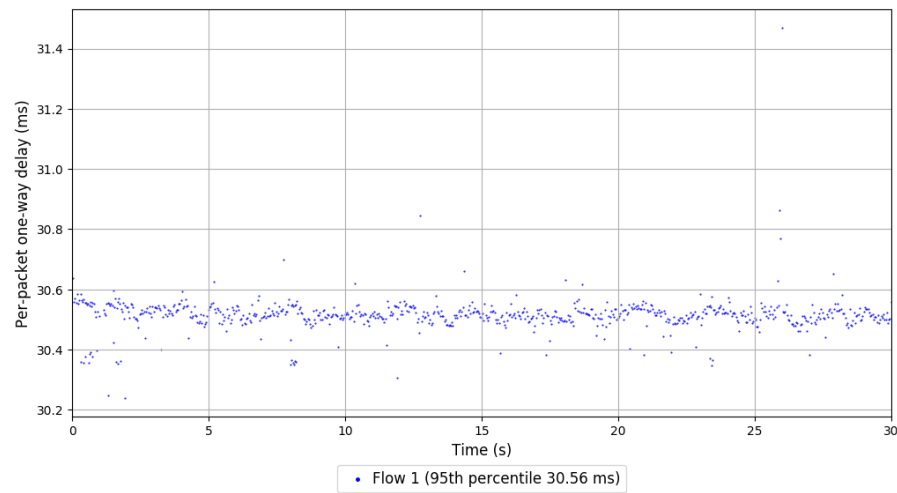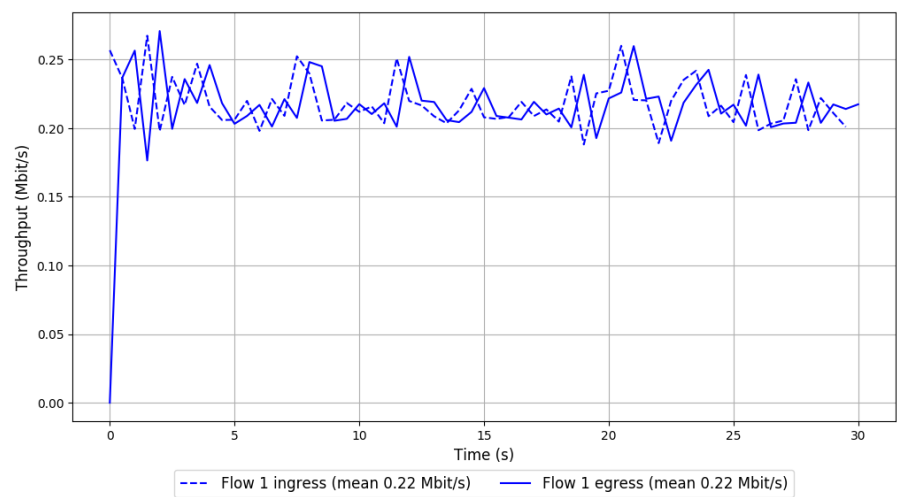

Flow 1 (95th percentile 28.62 ms)

```
Run 8: Statistics of SCReAM

Start at: 2018-05-30 11:02:39
End at: 2018-05-30 11:03:09
Local clock offset: 0.8 ms
Remote clock offset: -0.322 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.560 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.560 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)
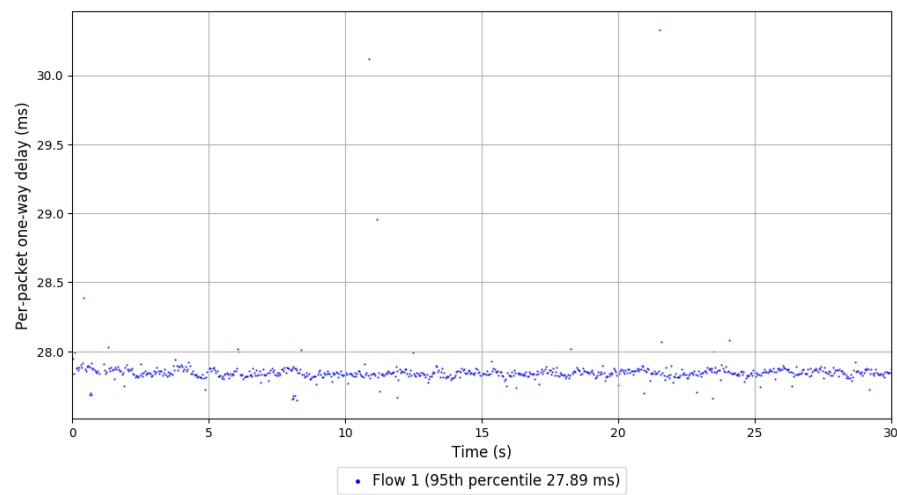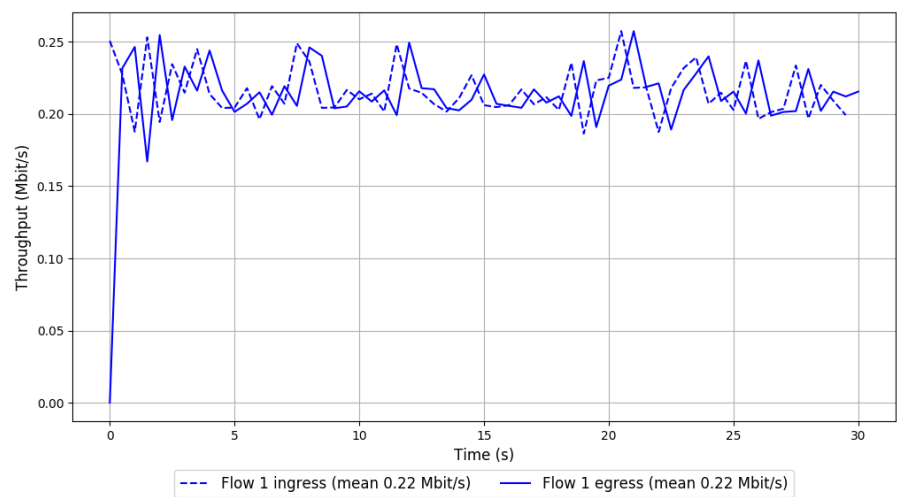

Flow 1 (95th percentile 30.56 ms)

```
Run 9: Statistics of SCReAM

Start at: 2018-05-30 11:23:31
End at: 2018-05-30 11:24:01
Local clock offset: 1.606 ms
Remote clock offset: -2.253 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.890 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.890 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link

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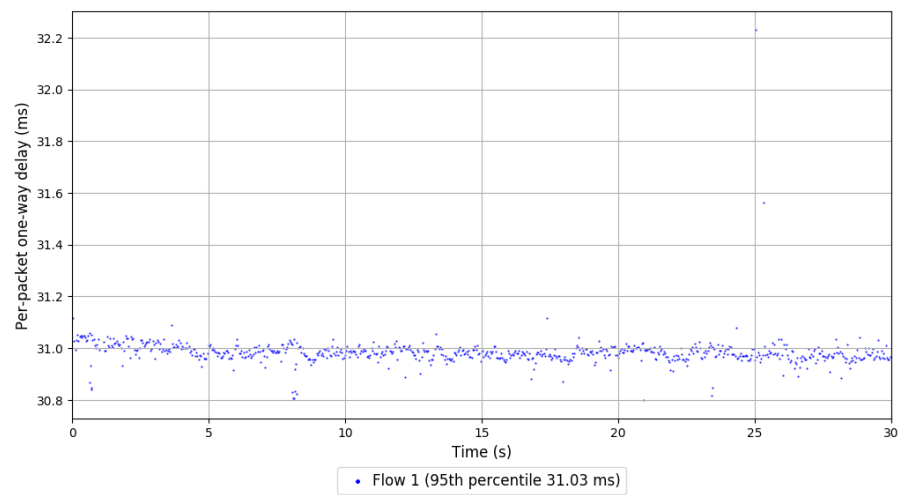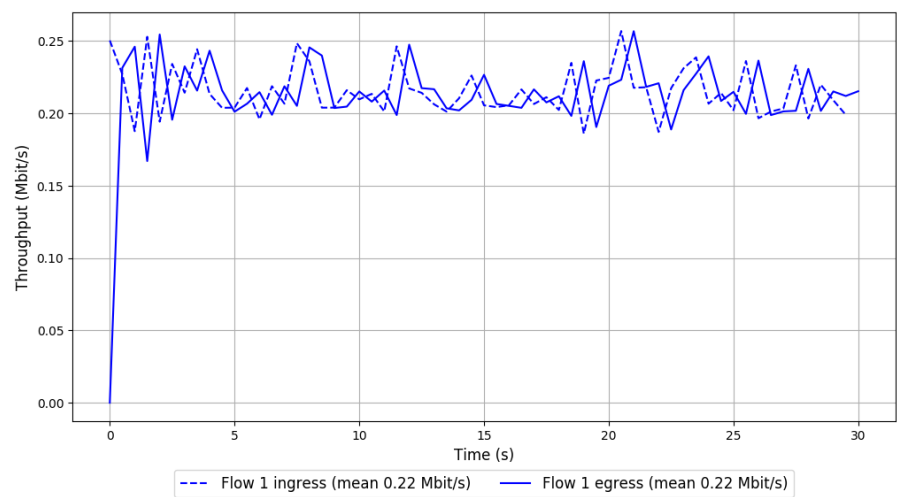

Flow 1 (95th percentile 27.89 ms)

```
Run 10: Statistics of SCReAM

Start at: 2018-05-30 11:44:25
End at: 2018-05-30 11:44:55
Local clock offset: 1.105 ms
Remote clock offset: 0.172 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 31.032 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link

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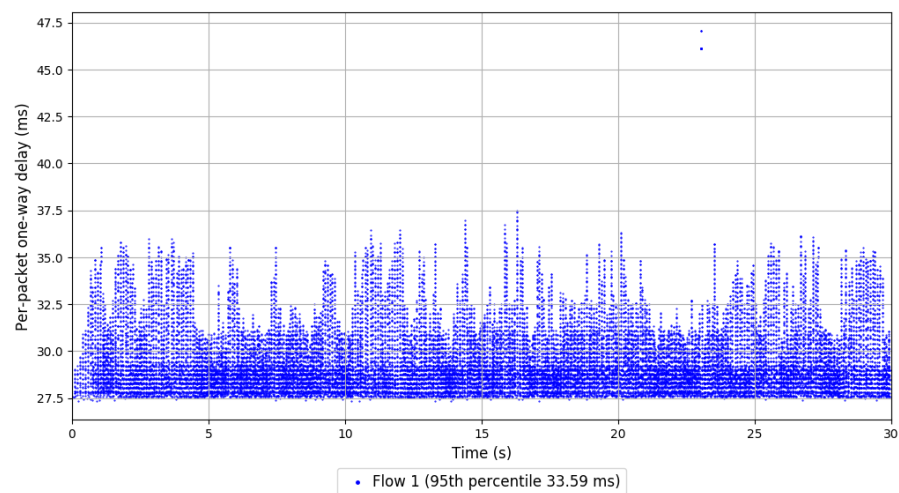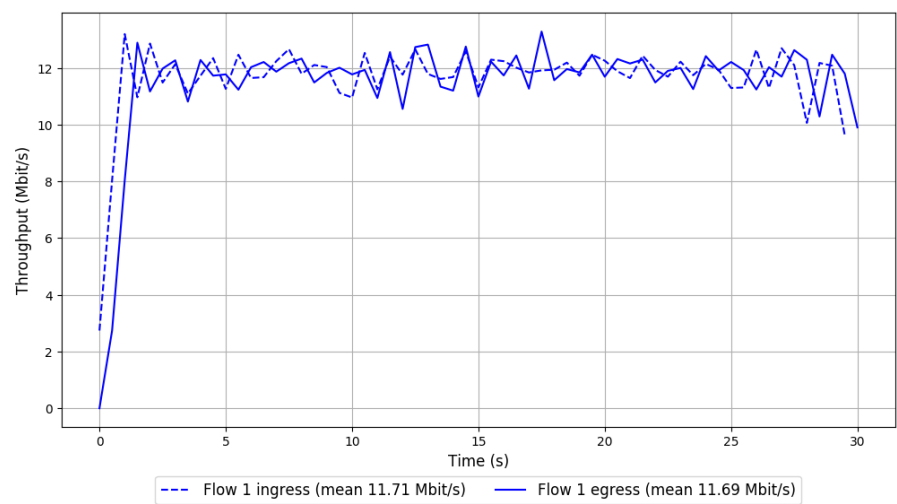

Flow 1 (95th percentile 31.03 ms)

```
Run 1: Statistics of Sprout

Start at: 2018-05-30 08:40:05
End at: 2018-05-30 08:40:35
Local clock offset: 1.548 ms
Remote clock offset: -5.255 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 33.585 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 33.585 ms
Loss rate: 0.11%
```
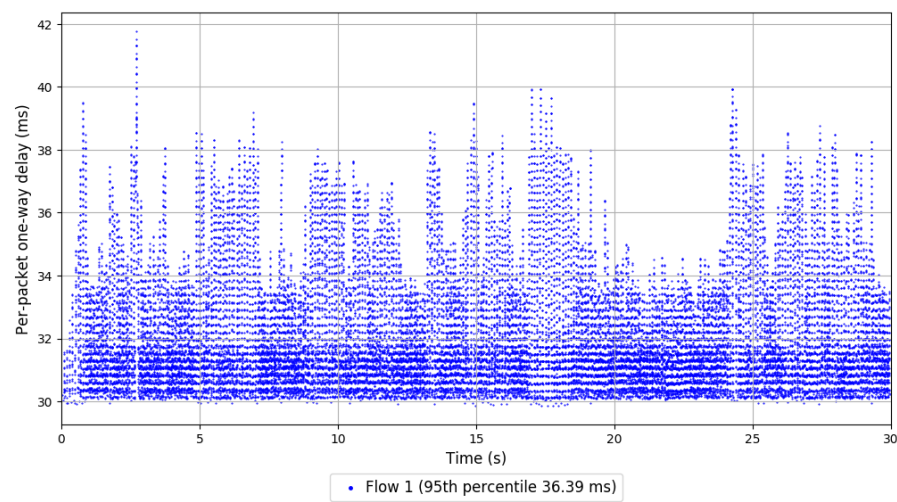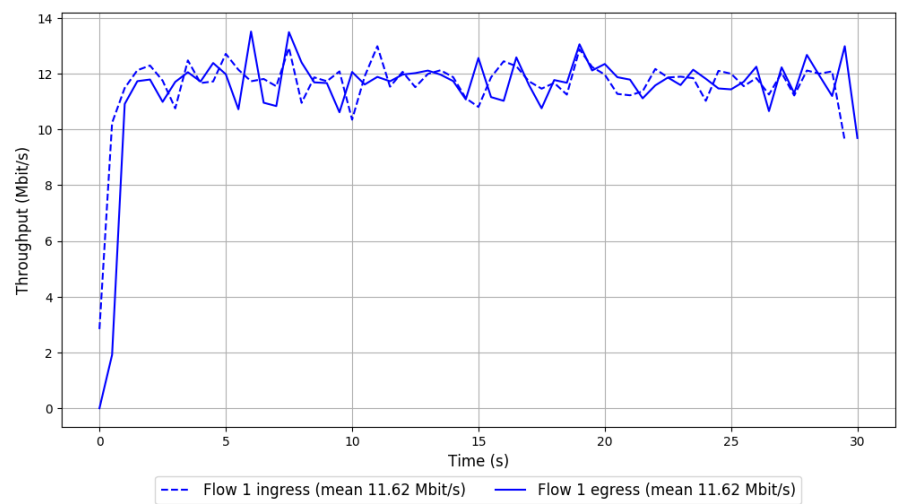
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-05-30 09:00:59
End at: 2018-05-30 09:01:29
Local clock offset: 1.499 ms
Remote clock offset: -3.231 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 36.388 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 11.62 Mbit/s
95th percentile per-packet one-way delay: 36.388 ms
Loss rate: 0.02%
```

Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-05-30 09:21:53
End at: 2018-05-30 09:22:23
Local clock offset: 0.746 ms
Remote clock offset: -2.07 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 37.089 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 37.089 ms
Loss rate: 0.00%
```
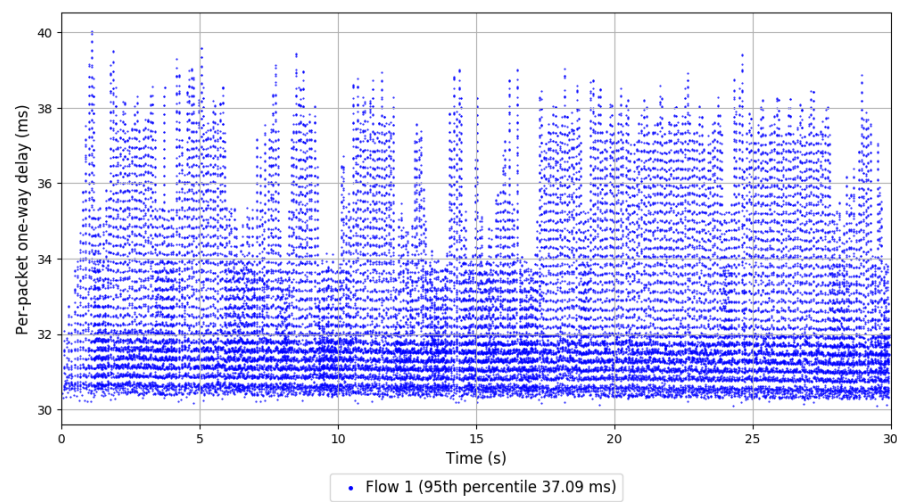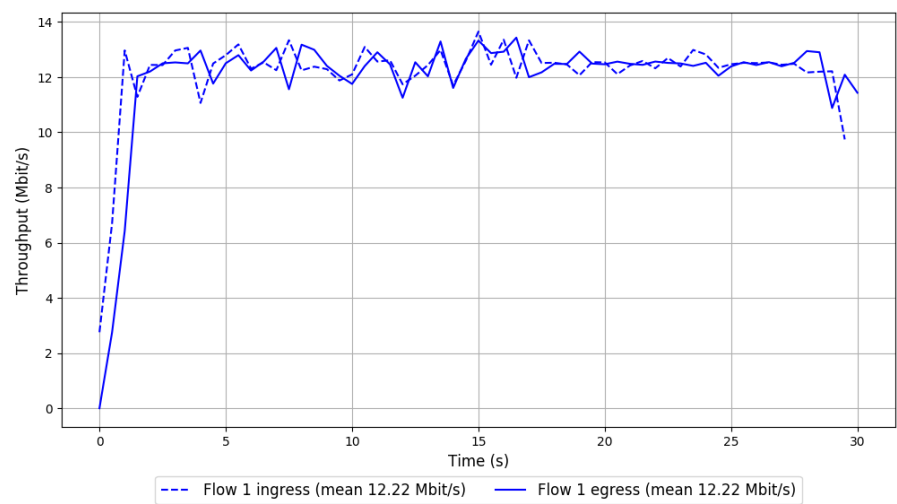
Run 3: Report of Sprout — Data Link

Flow 1 ingress (mean 12.22 Mbit/s) --- Flow 1 egress (mean 12.22 Mbit/s)

• Flow 1 (95th percentile 37.09 ms)

```
Run 4: Statistics of Sprout

Start at: 2018-05-30 09:42:51
End at: 2018-05-30 09:43:21
Local clock offset: 1.139 ms
Remote clock offset: 0.352 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 36.814 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.32 Mbit/s
95th percentile per-packet one-way delay: 36.814 ms
Loss rate: 0.00%
```
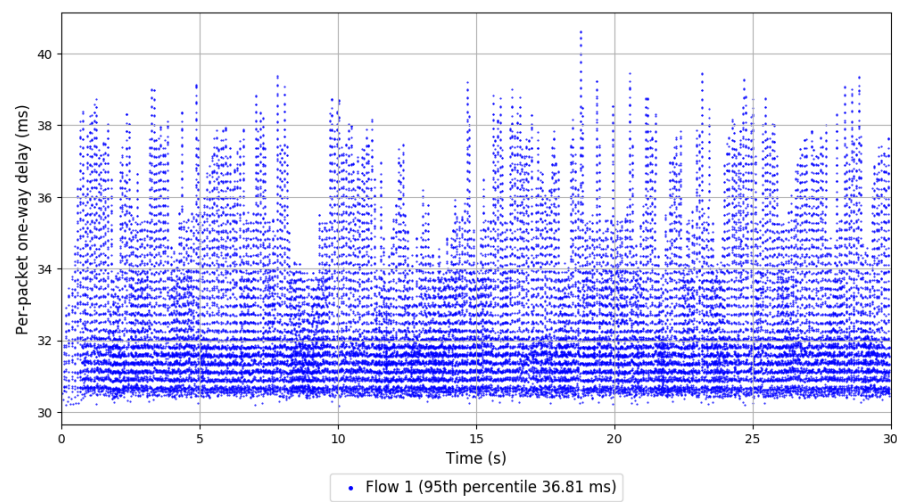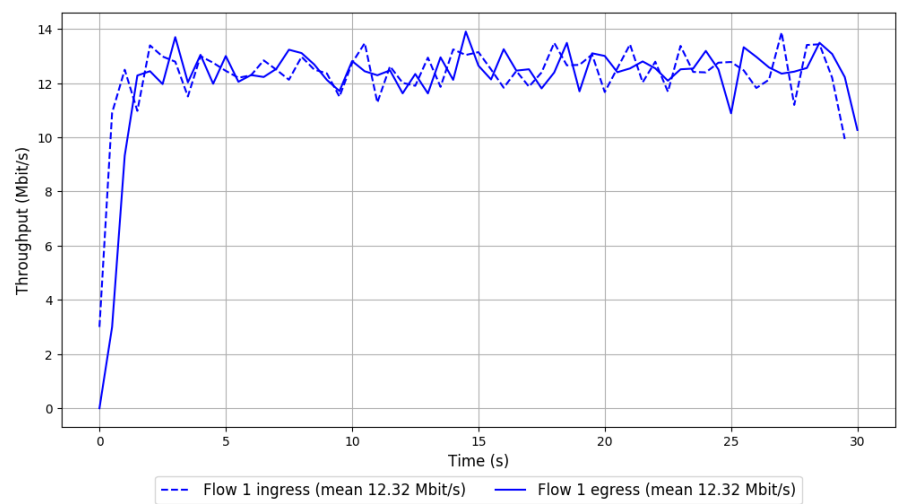
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-05-30 10:03:47
End at: 2018-05-30 10:04:17
Local clock offset: 1.625 ms
Remote clock offset: 0.162 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 37.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.31 Mbit/s
95th percentile per-packet one-way delay: 37.042 ms
Loss rate: 0.00%
```
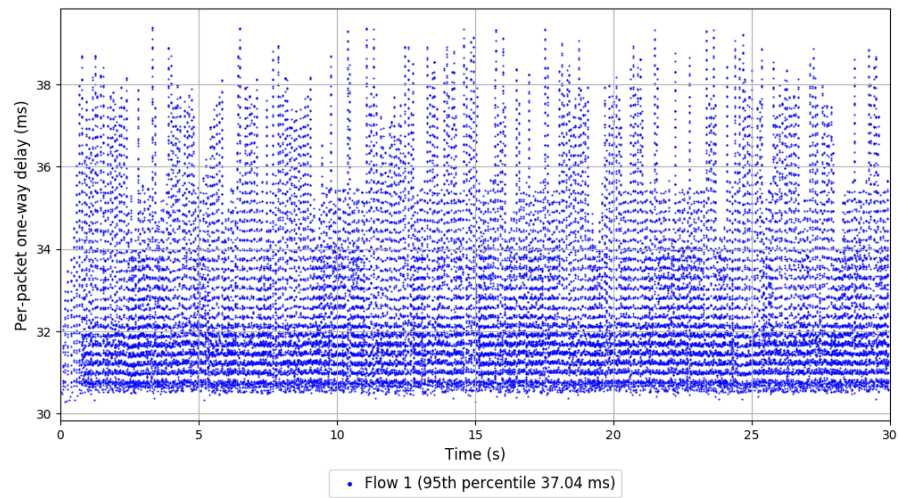
Run 5: Report of Sprout — Data Link

```
Run 6: Statistics of Sprout

Start at: 2018-05-30 10:24:44
End at: 2018-05-30 10:25:14
Local clock offset: 0.845 ms
Remote clock offset: -1.828 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 34.461 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.63 Mbit/s
95th percentile per-packet one-way delay: 34.461 ms
Loss rate: 0.00%
```
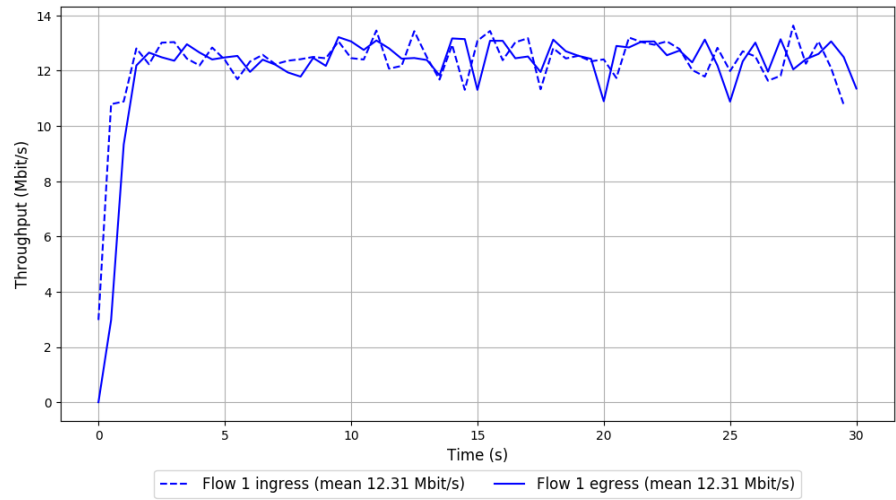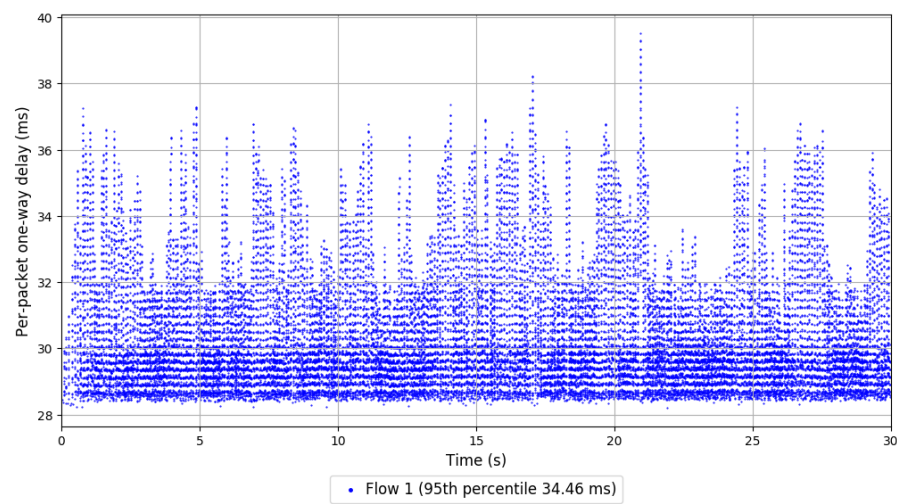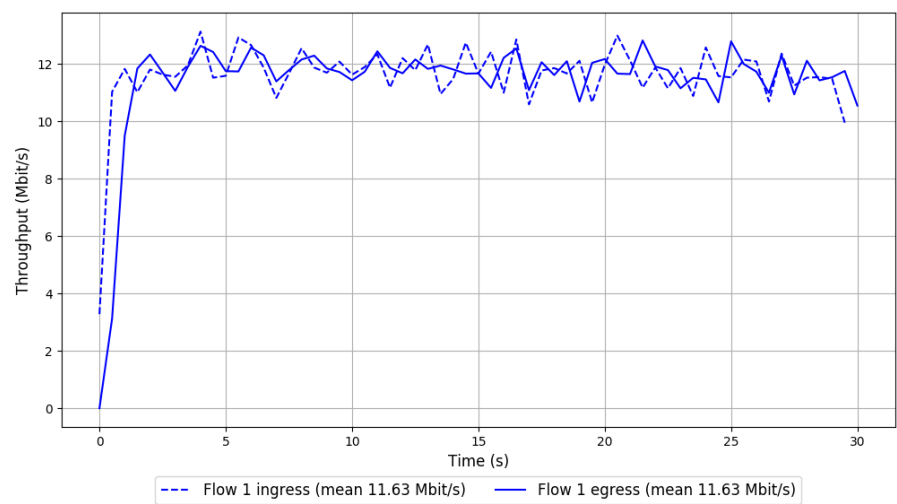
Run 6: Report of Sprout — Data Link

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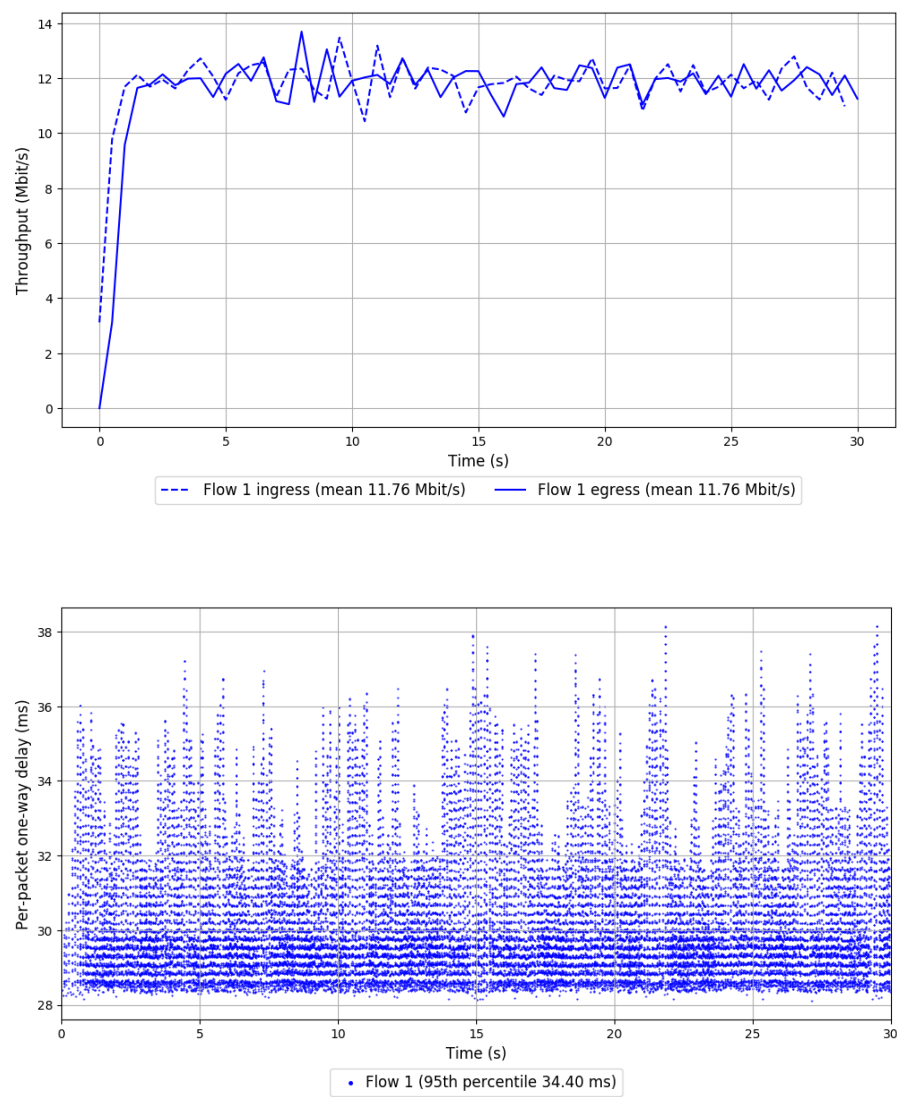

Flow 1 (95th percentile 34.46 ms)

```
Run 7: Statistics of Sprout

Start at: 2018-05-30 10:45:37
End at: 2018-05-30 10:46:07
Local clock offset: 0.897 ms
Remote clock offset: -2.356 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 34.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.76 Mbit/s
95th percentile per-packet one-way delay: 34.402 ms
Loss rate: 0.00%
```

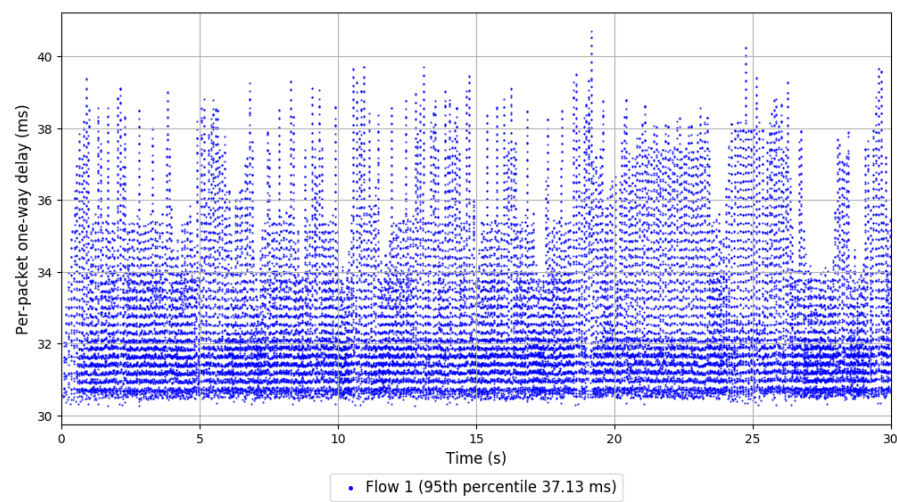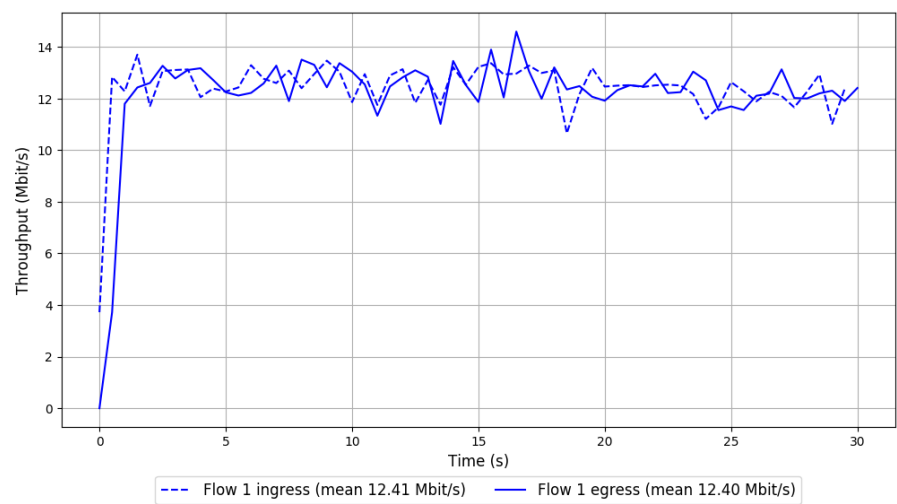## Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2018-05-30 11:06:31
End at: 2018-05-30 11:07:01
Local clock offset: 0.921 ms
Remote clock offset: -0.209 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 37.133 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 37.133 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link

Flow 1 ingress (mean 12.41 Mbit/s) --- Flow 1 egress (mean 12.40 Mbit/s)
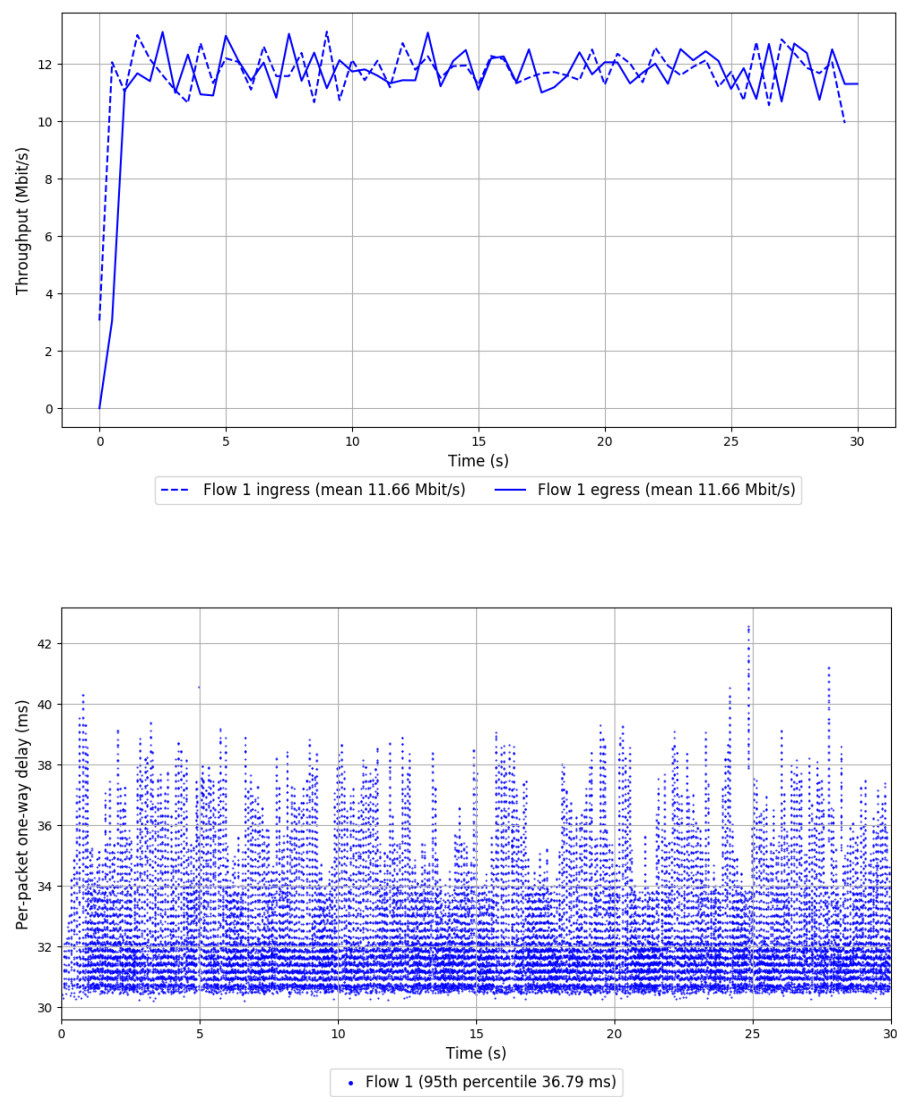

Flow 1 (95th percentile 37.13 ms)

```
Run 9: Statistics of Sprout

Start at: 2018-05-30 11:27:23
End at: 2018-05-30 11:27:53
Local clock offset: 1.675 ms
Remote clock offset: -0.195 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 36.790 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.66 Mbit/s
95th percentile per-packet one-way delay: 36.790 ms
Loss rate: 0.00%
```

Run 9: Report of Sprout — Data Link

Flow 1 ingress (mean 11.66 Mbit/s)   Flow 1 egress (mean 11.66 Mbit/s)

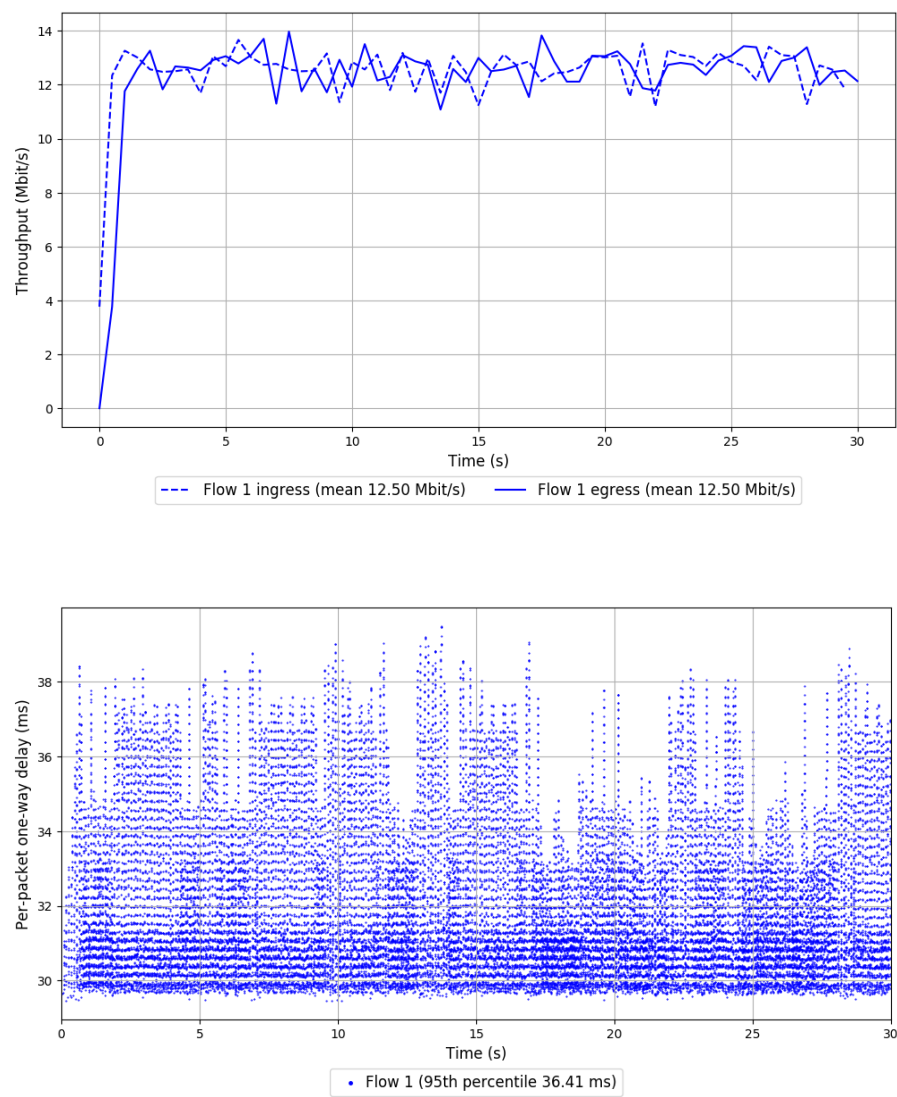

• Flow 1 (95th percentile 36.79 ms)

```
Run 10: Statistics of Sprout

Start at: 2018-05-30 11:48:17
End at: 2018-05-30 11:48:47
Local clock offset: 1.013 ms
Remote clock offset: -0.313 ms


# Below is generated by plot.py at 2018-05-30 12:12:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 36.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.50 Mbit/s
95th percentile per-packet one-way delay: 36.412 ms
Loss rate: 0.00%
```

Run 10: Report of Sprout — Data Link

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

Start at: 2018-05-30 08:45:15
End at: 2018-05-30 08:45:45
Local clock offset: 1.425 ms
Remote clock offset: -5.353 ms


# Below is generated by plot.py at 2018-05-30 12:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.10 Mbit/s
95th percentile per-packet one-way delay: 40.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.10 Mbit/s
95th percentile per-packet one-way delay: 40.973 ms
Loss rate: 0.00%
```
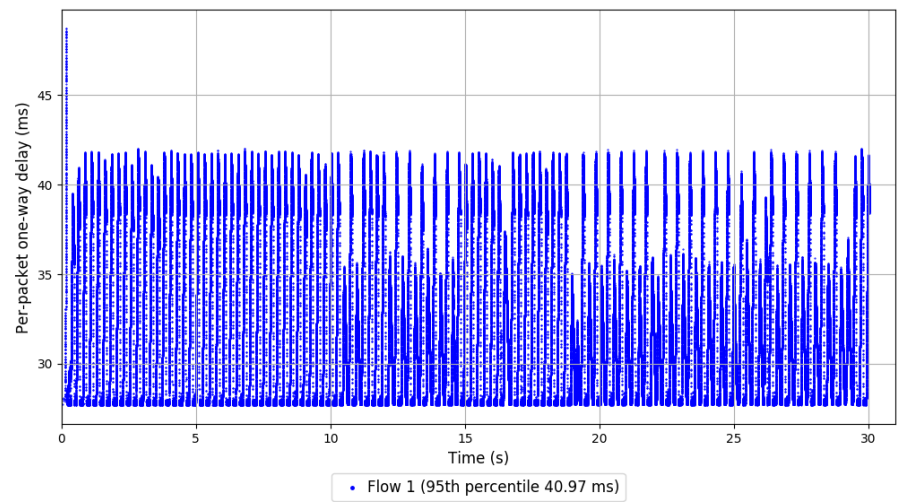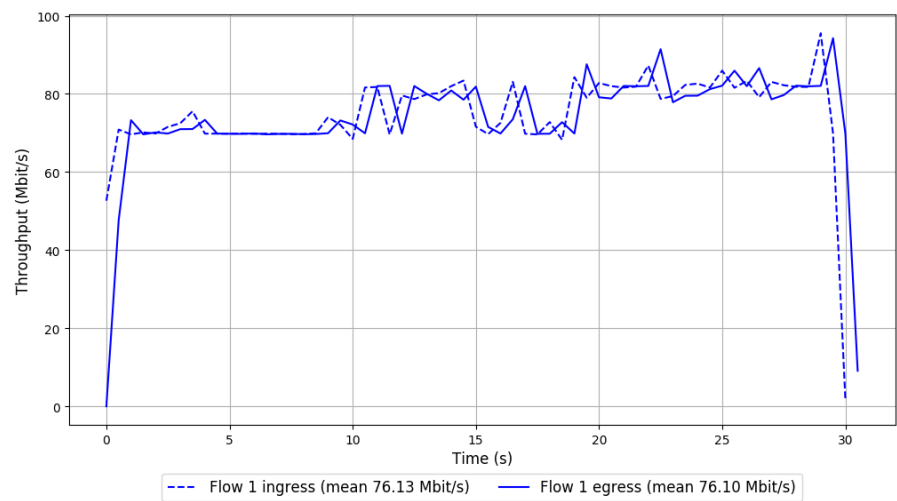
Run 1: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 76.13 Mbit/s) --- Flow 1 egress (mean 76.10 Mbit/s)

• Flow 1 (95th percentile 40.97 ms)

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

Start at: 2018-05-30 09:06:09
End at: 2018-05-30 09:06:39
Local clock offset: 1.525 ms
Remote clock offset: -3.817 ms


# Below is generated by plot.py at 2018-05-30 12:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.13 Mbit/s
95th percentile per-packet one-way delay: 43.520 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.13 Mbit/s
95th percentile per-packet one-way delay: 43.520 ms
Loss rate: 0.00%
```
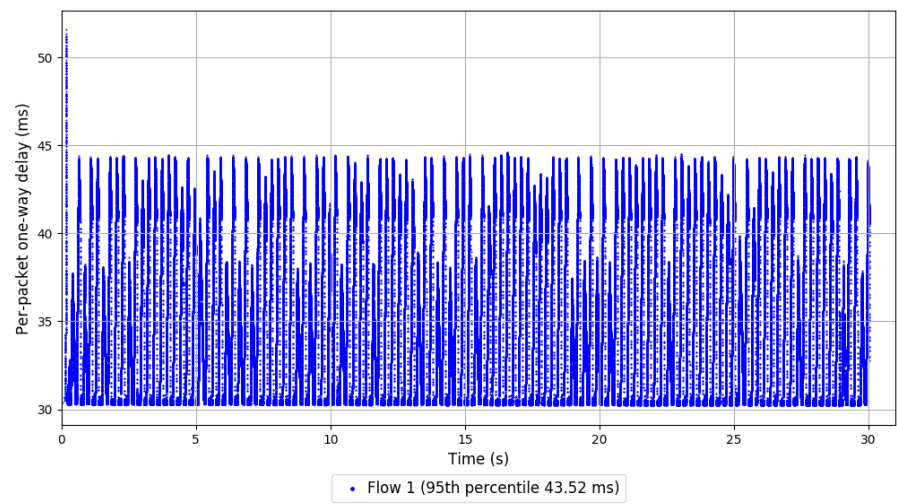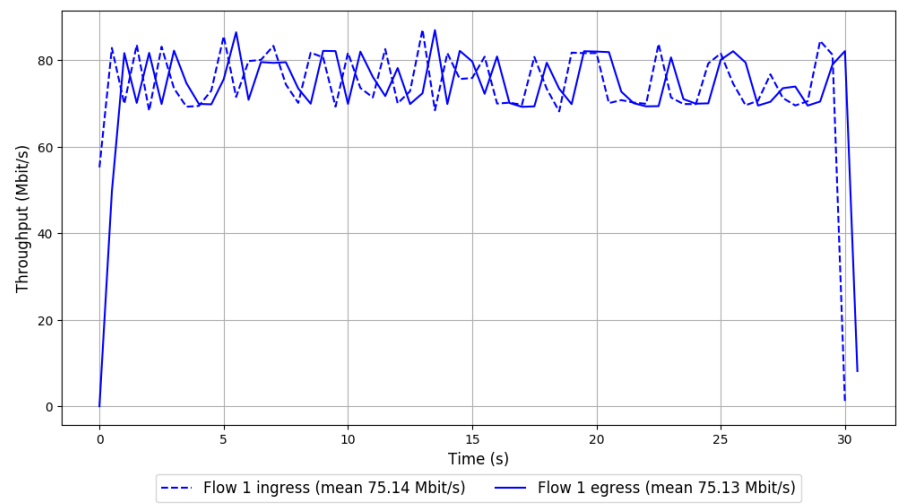
Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 75.14 Mbit/s)   Flow 1 egress (mean 75.13 Mbit/s)

• Flow 1 (95th percentile 43.52 ms)

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

Start at: 2018-05-30 09:27:03
End at: 2018-05-30 09:27:33
Local clock offset: 0.641 ms
Remote clock offset: -0.995 ms


# Below is generated by plot.py at 2018-05-30 12:14:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.66 Mbit/s
95th percentile per-packet one-way delay: 43.148 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 71.66 Mbit/s
95th percentile per-packet one-way delay: 43.148 ms
Loss rate: 0.02%
```
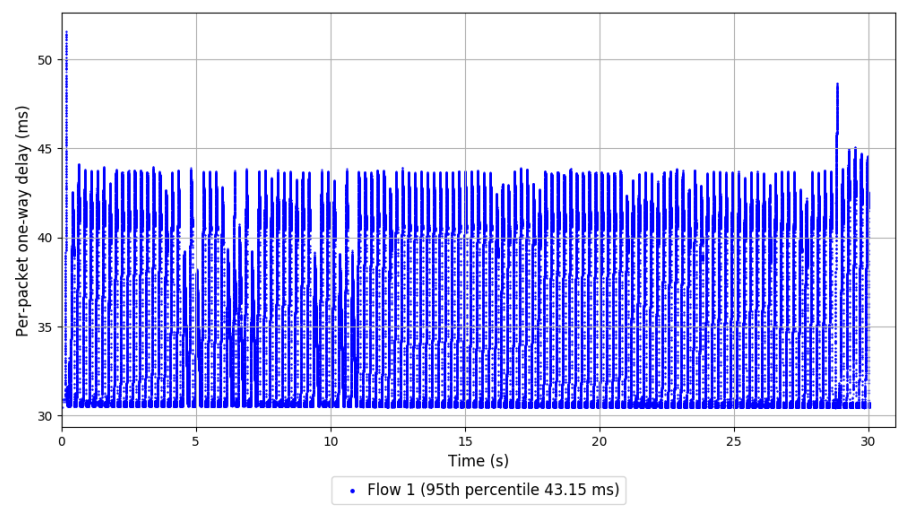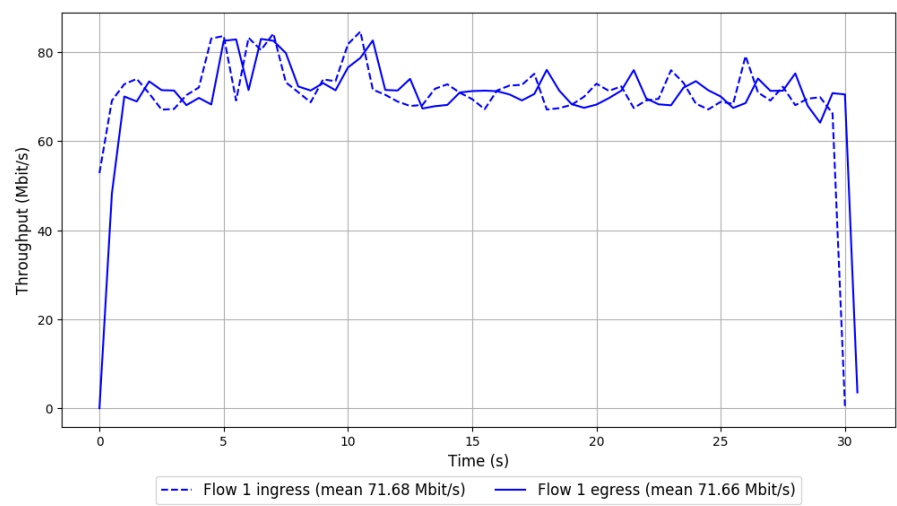
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 71.68 Mbit/s)   Flow 1 egress (mean 71.66 Mbit/s)

Flow 1 (95th percentile 43.15 ms)

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

Start at: 2018-05-30 09:48:03
End at: 2018-05-30 09:48:33
Local clock offset: 1.346 ms
Remote clock offset: -1.462 ms


# Below is generated by plot.py at 2018-05-30 12:14:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.77 Mbit/s
95th percentile per-packet one-way delay: 41.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.77 Mbit/s
95th percentile per-packet one-way delay: 41.503 ms
Loss rate: 0.00%
```
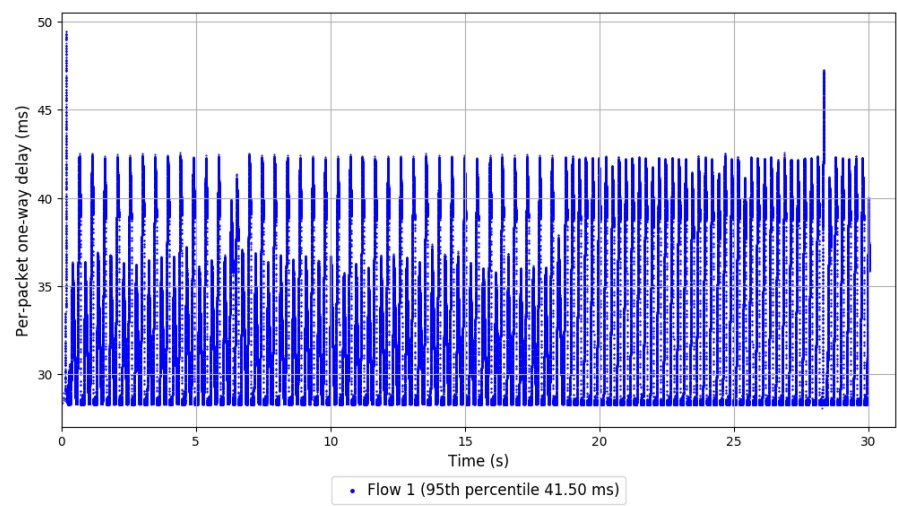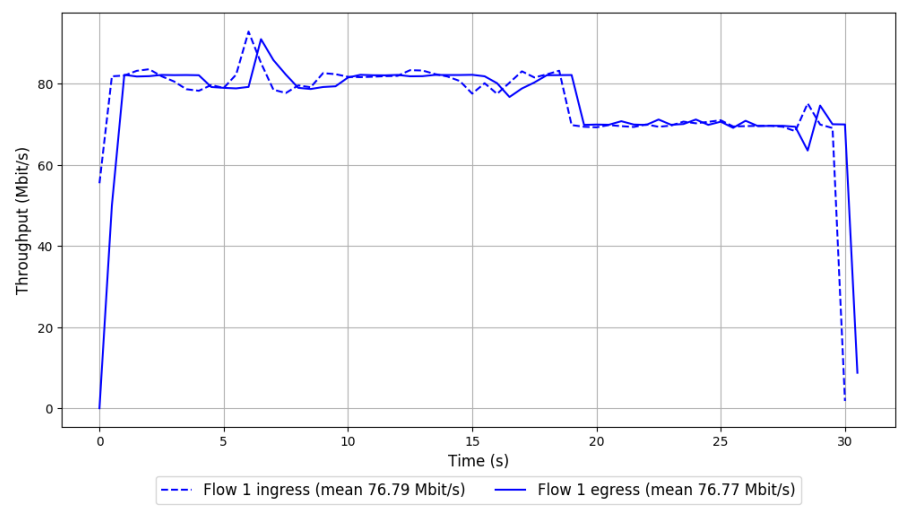
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 76.79 Mbit/s)   Flow 1 egress (mean 76.77 Mbit/s)

Flow 1 (95th percentile 41.50 ms)

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

Start at: 2018-05-30 10:08:58
End at: 2018-05-30 10:09:28
Local clock offset: 1.373 ms
Remote clock offset: -2.01 ms


# Below is generated by plot.py at 2018-05-30 12:14:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.72 Mbit/s
95th percentile per-packet one-way delay: 40.685 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 79.72 Mbit/s
95th percentile per-packet one-way delay: 40.685 ms
Loss rate: 0.02%
```
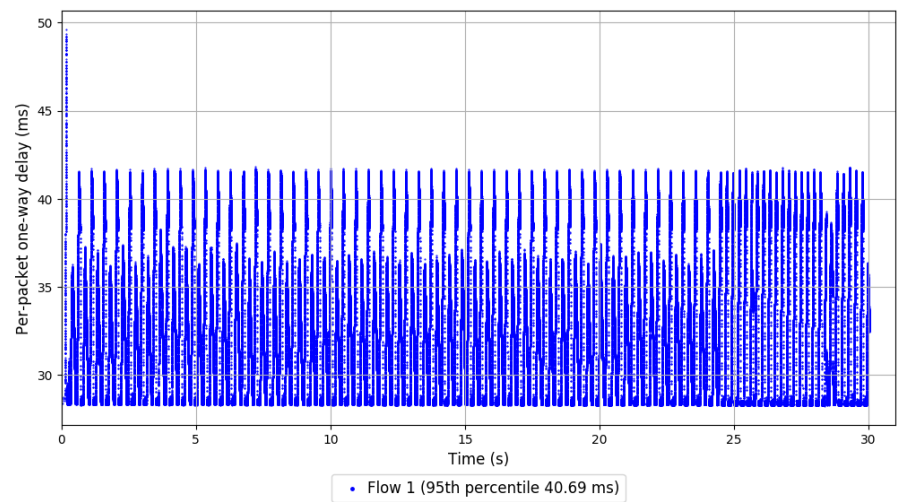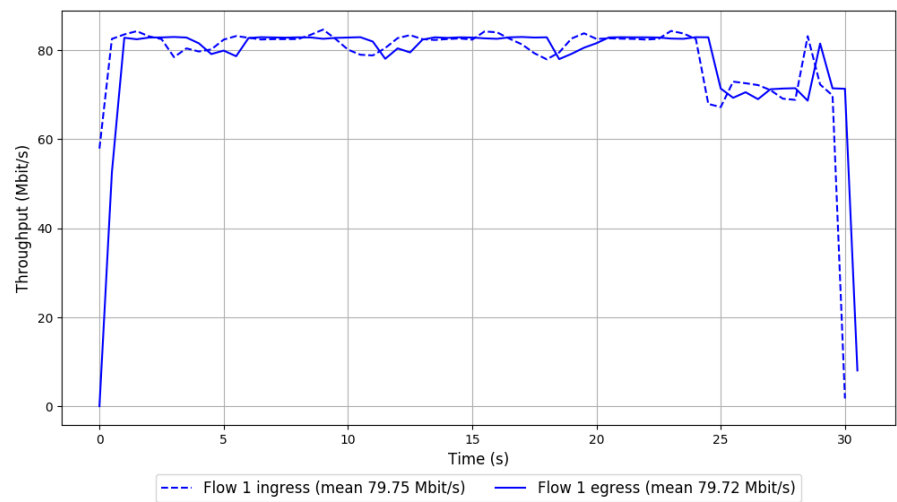
Run 5: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 79.75 Mbit/s)　　Flow 1 egress (mean 79.72 Mbit/s)

Flow 1 (95th percentile 40.69 ms)

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

Start at: 2018-05-30 10:29:54
End at: 2018-05-30 10:30:24
Local clock offset: 0.794 ms
Remote clock offset: -0.024 ms


# Below is generated by plot.py at 2018-05-30 12:14:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.73 Mbit/s
95th percentile per-packet one-way delay: 42.532 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.73 Mbit/s
95th percentile per-packet one-way delay: 42.532 ms
Loss rate: 0.00%
```
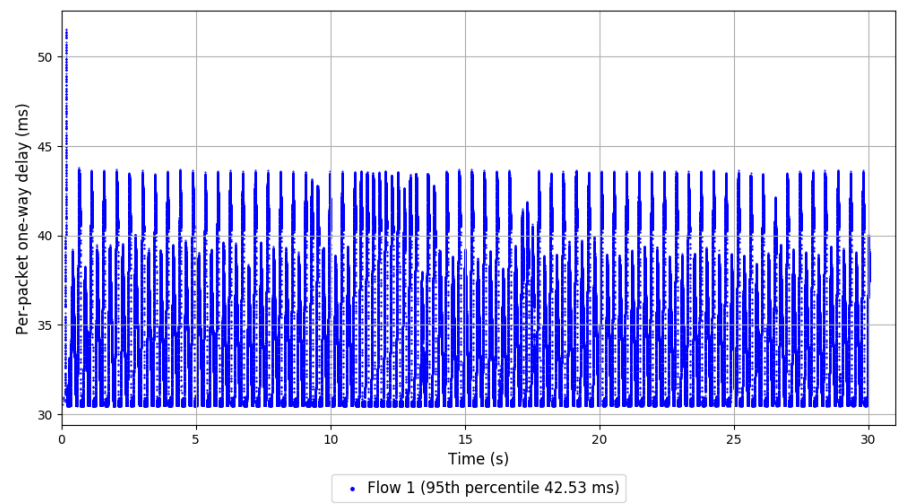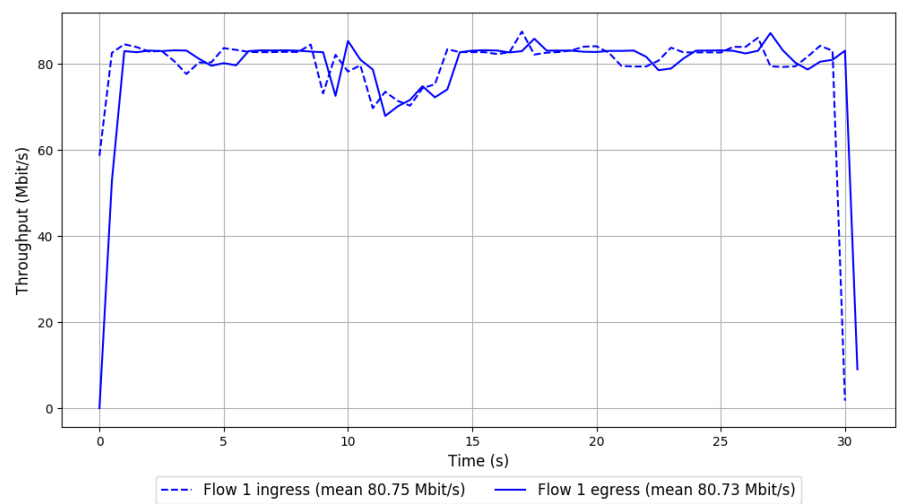
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 80.75 Mbit/s)   Flow 1 egress (mean 80.73 Mbit/s)
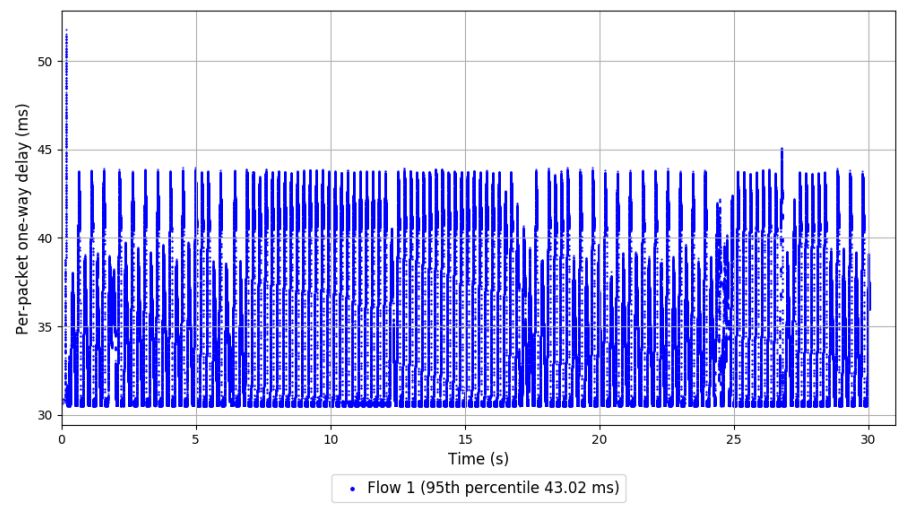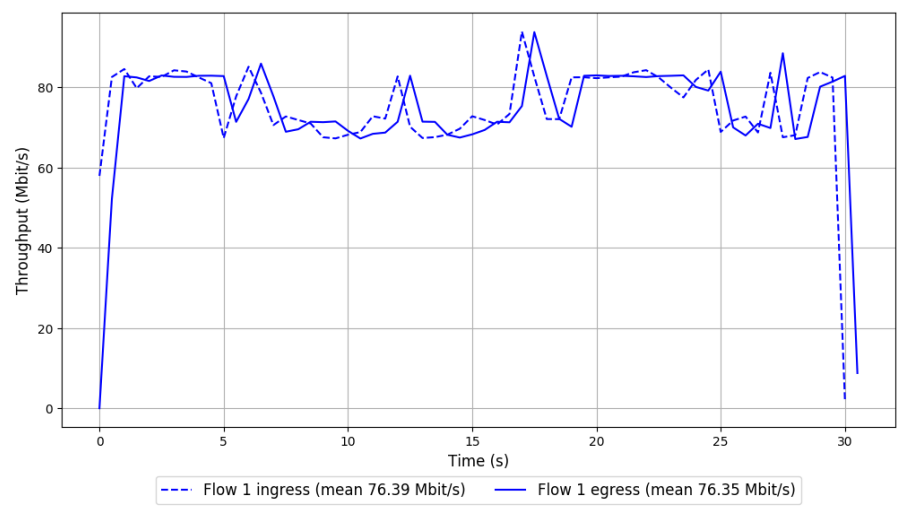

Flow 1 (95th percentile 42.53 ms)

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

Start at: 2018-05-30 10:50:46
End at: 2018-05-30 10:51:16
Local clock offset: 0.838 ms
Remote clock offset: -0.245 ms


# Below is generated by plot.py at 2018-05-30 12:14:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 43.019 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 76.35 Mbit/s
95th percentile per-packet one-way delay: 43.019 ms
Loss rate: 0.04%
```

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

Flow 1 ingress (mean 76.39 Mbit/s)   Flow 1 egress (mean 76.35 Mbit/s)

Flow 1 (95th percentile 43.02 ms)

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

Start at: 2018-05-30 11:11:40
End at: 2018-05-30 11:12:10
Local clock offset: 1.284 ms
Remote clock offset: -0.269 ms


# Below is generated by plot.py at 2018-05-30 12:14:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 43.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 43.869 ms
Loss rate: 0.00%
```
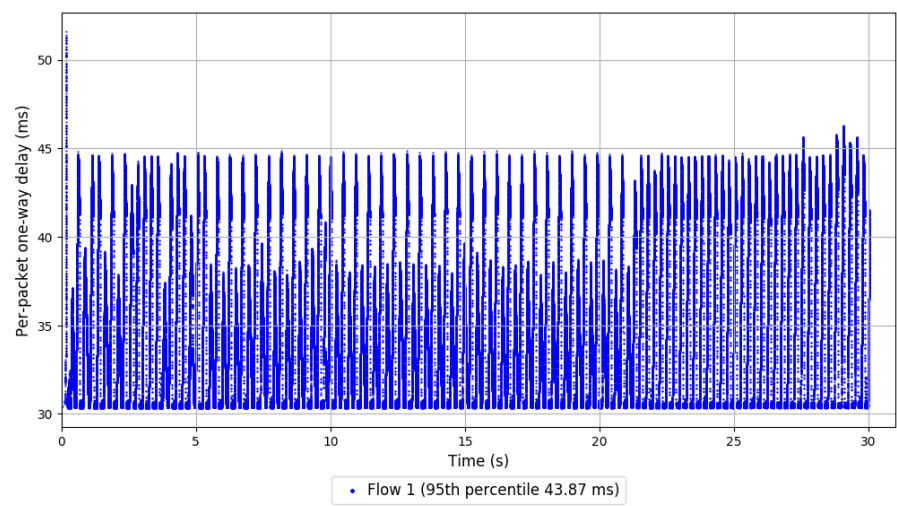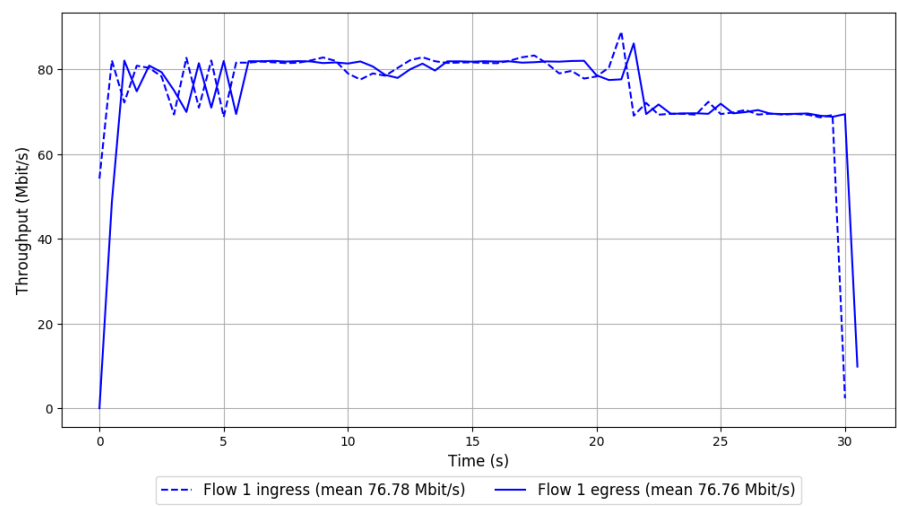
Run 8: Report of TaoVA-100x — Data Link

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

Start at: 2018-05-30 11:32:33
End at: 2018-05-30 11:33:03
Local clock offset: 1.748 ms
Remote clock offset: -0.211 ms


# Below is generated by plot.py at 2018-05-30 12:15:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.64 Mbit/s
95th percentile per-packet one-way delay: 43.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.64 Mbit/s
95th percentile per-packet one-way delay: 43.904 ms
Loss rate: 0.00%
```
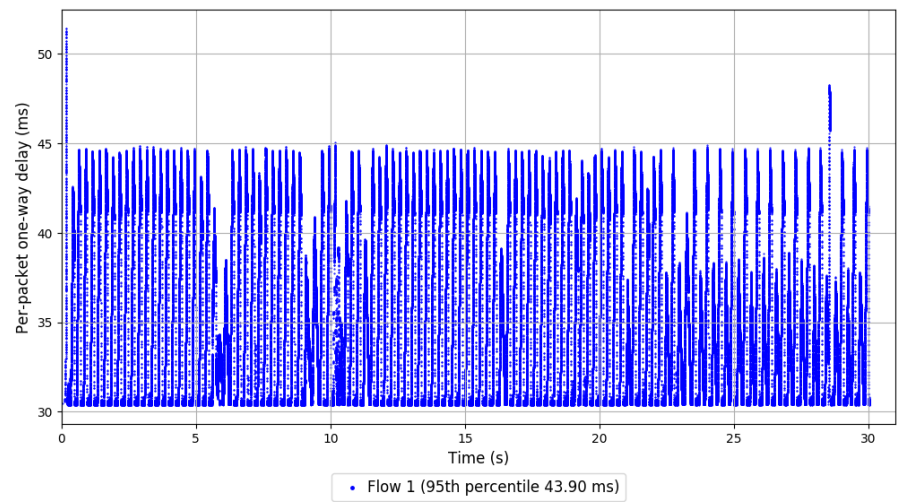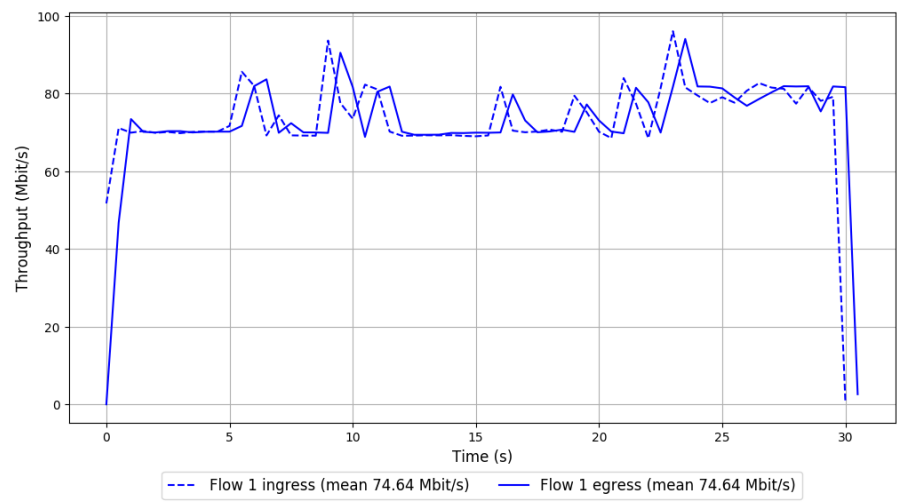
Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 74.64 Mbit/s)   —— Flow 1 egress (mean 74.64 Mbit/s)

• Flow 1 (95th percentile 43.90 ms)

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

Start at: 2018-05-30 11:53:28
End at: 2018-05-30 11:53:58
Local clock offset: 0.875 ms
Remote clock offset: -0.327 ms


# Below is generated by plot.py at 2018-05-30 12:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.71 Mbit/s
95th percentile per-packet one-way delay: 42.367 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 79.71 Mbit/s
95th percentile per-packet one-way delay: 42.367 ms
Loss rate: 0.04%
```
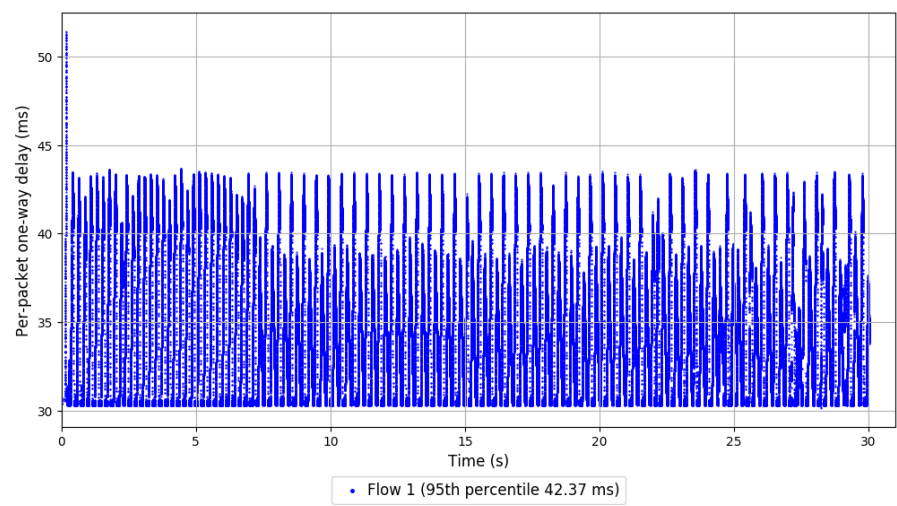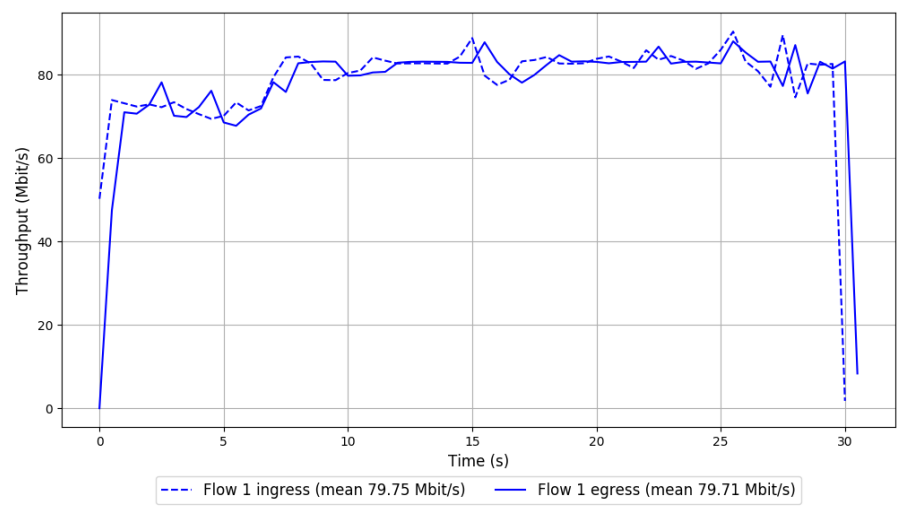
Run 10: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 79.75 Mbit/s) ----- Flow 1 egress (mean 79.71 Mbit/s) ——
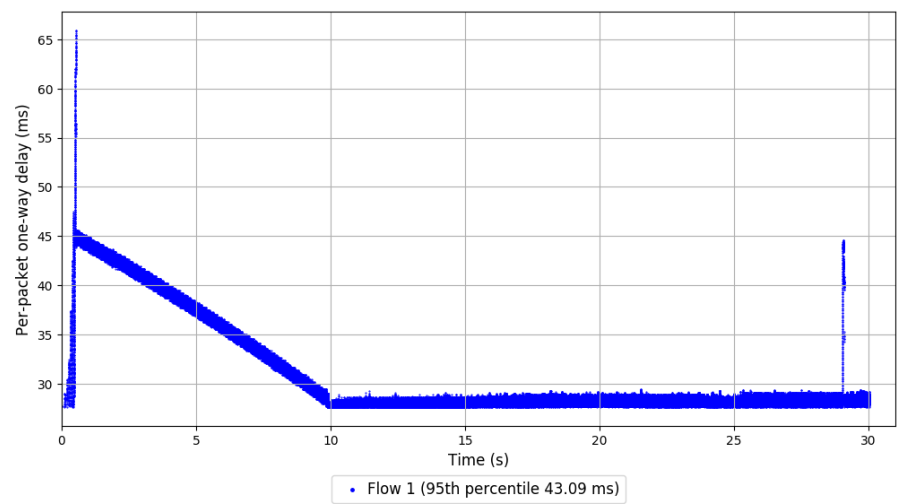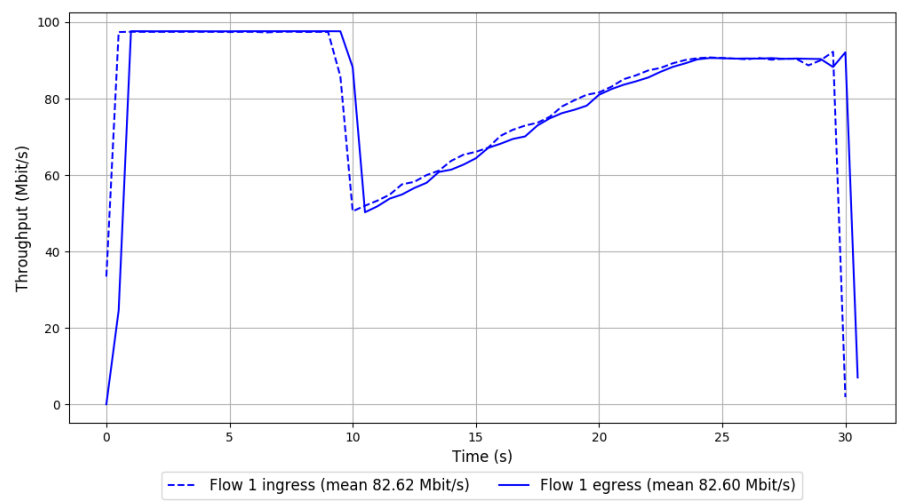

Flow 1 (95th percentile 42.37 ms)

```
Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 08:25:43
End at: 2018-05-30 08:26:13
Local clock offset: 1.49 ms
Remote clock offset: -4.559 ms


# Below is generated by plot.py at 2018-05-30 12:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.60 Mbit/s
95th percentile per-packet one-way delay: 43.089 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 82.60 Mbit/s
95th percentile per-packet one-way delay: 43.089 ms
Loss rate: 0.01%
```

Run 1: Report of TCP Vegas — Data Link

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```
Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 08:46:35
End at: 2018-05-30 08:47:05
Local clock offset: 1.498 ms
Remote clock offset: -3.36 ms


# Below is generated by plot.py at 2018-05-30 12:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 44.600 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 96.33 Mbit/s
95th percentile per-packet one-way delay: 44.600 ms
Loss rate: 0.26%
```
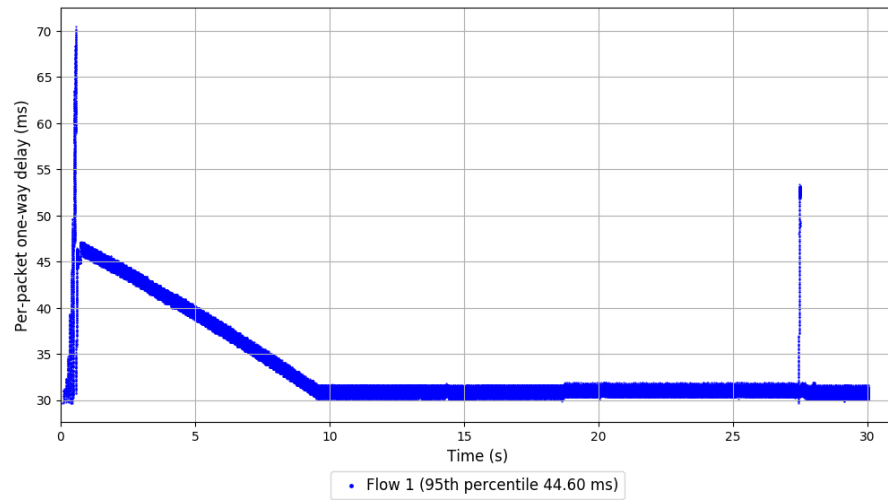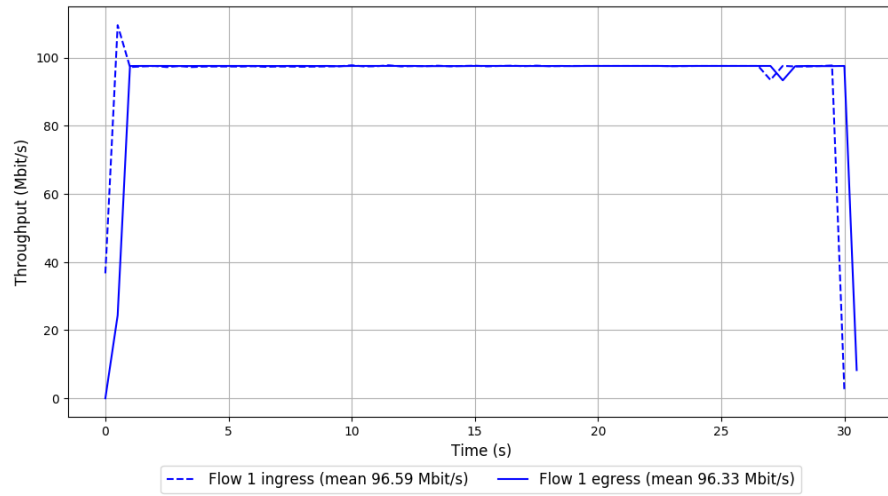
Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 09:07:29
End at: 2018-05-30 09:07:59
Local clock offset: 1.447 ms
Remote clock offset: -3.79 ms


# Below is generated by plot.py at 2018-05-30 12:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 48.394 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 96.48 Mbit/s
95th percentile per-packet one-way delay: 48.394 ms
Loss rate: 0.27%
```
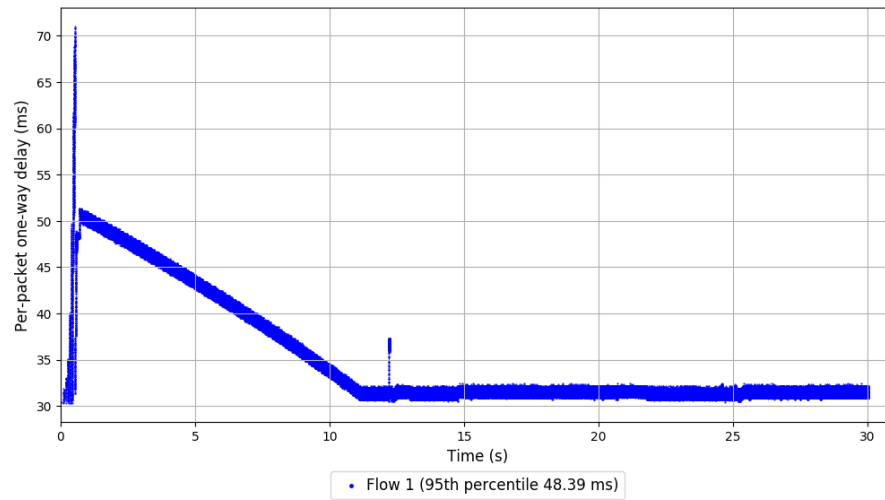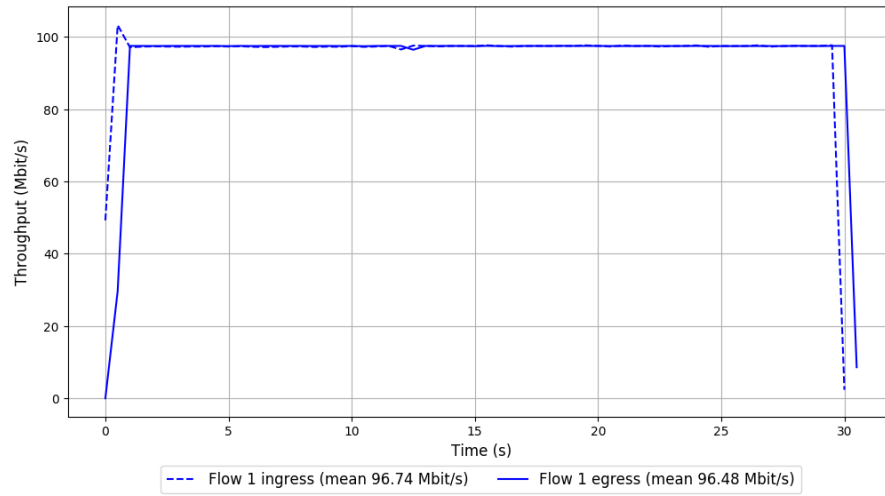
Run 3: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 96.74 Mbit/s)   Flow 1 egress (mean 96.48 Mbit/s)

Flow 1 (95th percentile 48.39 ms)

```
Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 09:28:24
End at: 2018-05-30 09:28:54
Local clock offset: 0.73 ms
Remote clock offset: -3.0 ms


# Below is generated by plot.py at 2018-05-30 12:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.57 Mbit/s
95th percentile per-packet one-way delay: 42.208 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 68.57 Mbit/s
95th percentile per-packet one-way delay: 42.208 ms
Loss rate: 0.39%
```
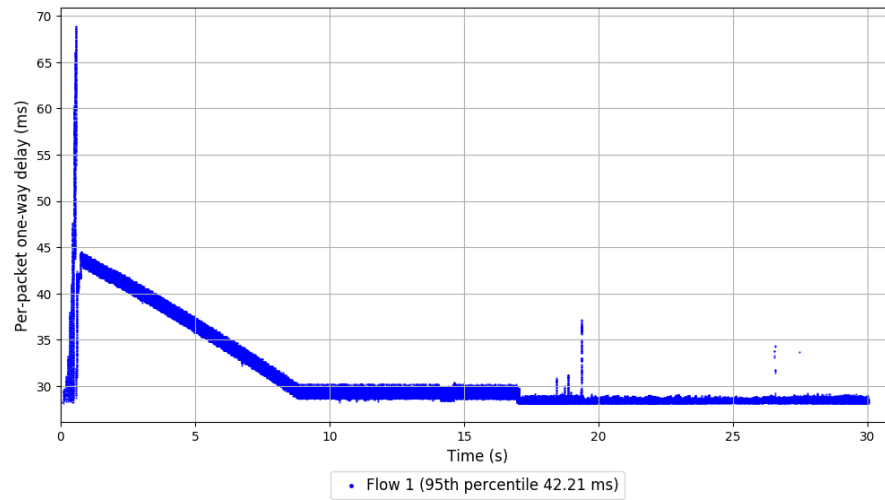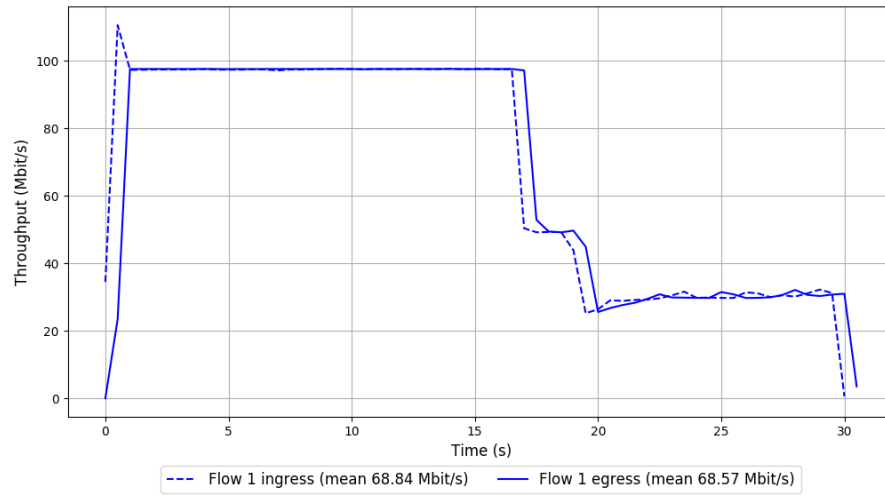
Run 4: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 68.84 Mbit/s) --- Flow 1 egress (mean 68.57 Mbit/s)

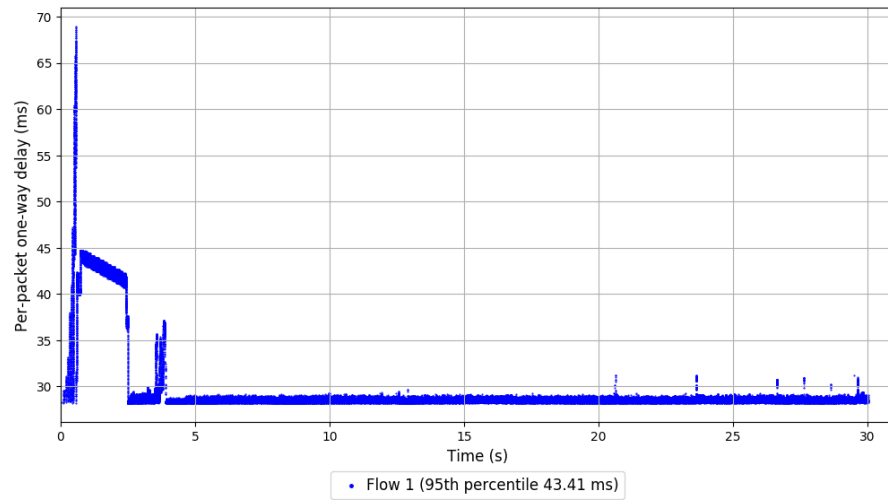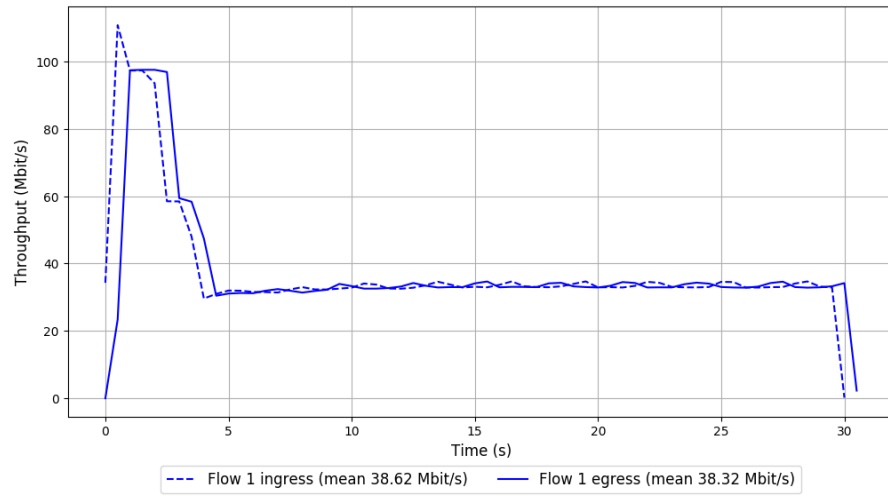Flow 1 (95th percentile 42.21 ms)

```
Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 09:49:23
End at: 2018-05-30 09:49:53
Local clock offset: 1.394 ms
Remote clock offset: -1.466 ms


# Below is generated by plot.py at 2018-05-30 12:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 38.32 Mbit/s
95th percentile per-packet one-way delay: 43.408 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 38.32 Mbit/s
95th percentile per-packet one-way delay: 43.408 ms
Loss rate: 0.78%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 38.62 Mbit/s) — — — Flow 1 egress (mean 38.32 Mbit/s)

Flow 1 (95th percentile 43.41 ms)

```
Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 10:10:19
End at: 2018-05-30 10:10:49
Local clock offset: 1.277 ms
Remote clock offset: 0.578 ms


# Below is generated by plot.py at 2018-05-30 12:16:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 47.375 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 47.375 ms
Loss rate: 0.30%
```
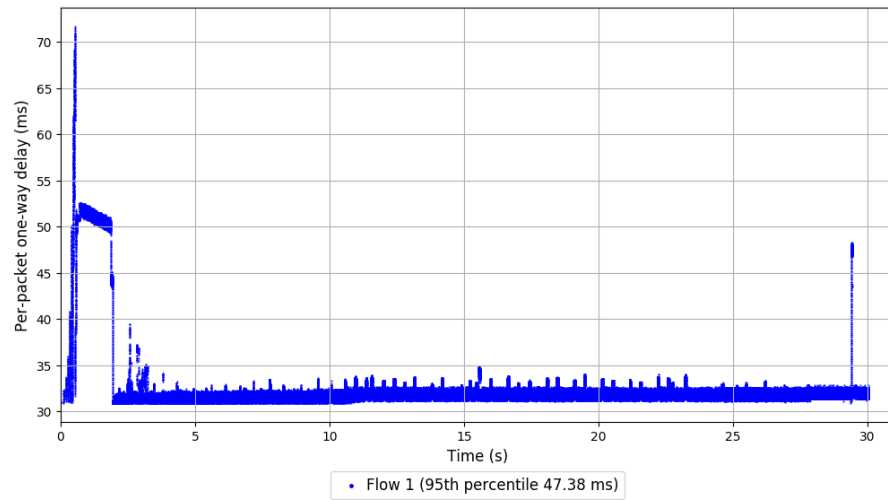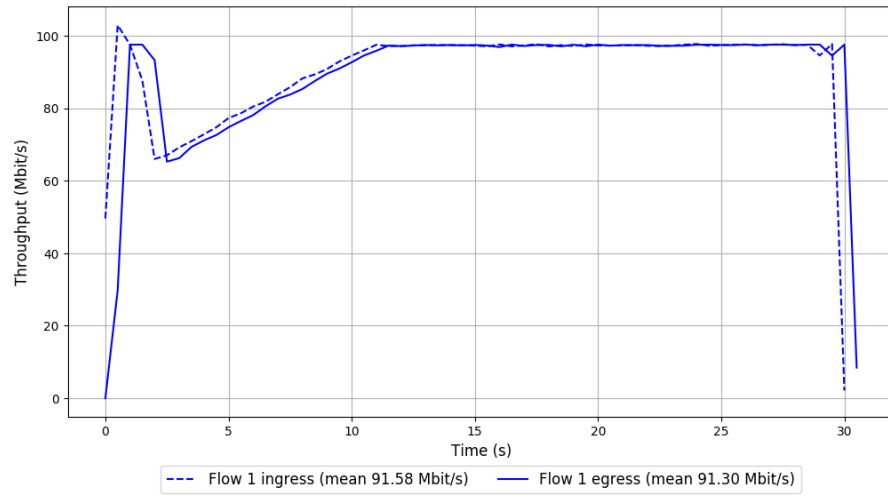
Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 91.58 Mbit/s)   Flow 1 egress (mean 91.30 Mbit/s)
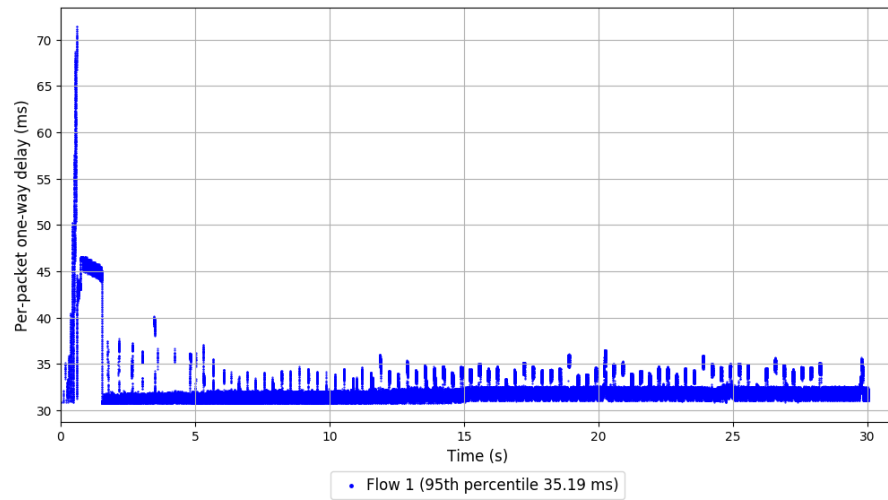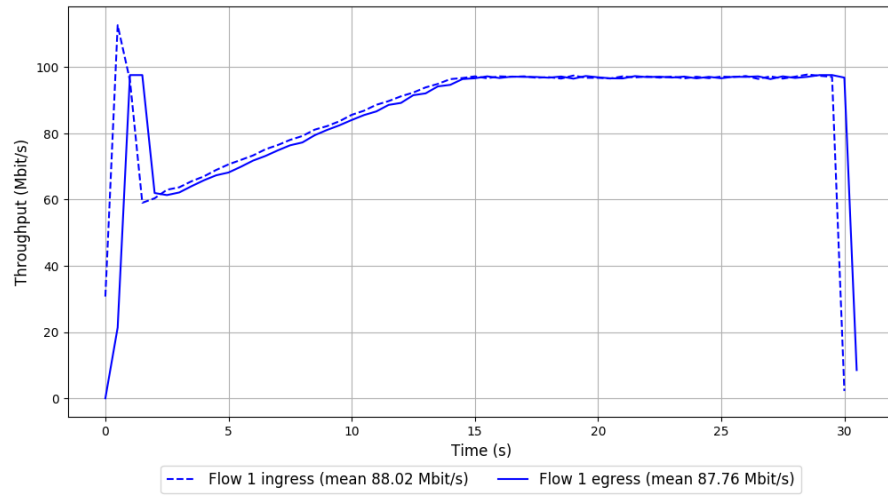

Flow 1 (95th percentile 47.38 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 10:31:14
End at: 2018-05-30 10:31:44
Local clock offset: 0.872 ms
Remote clock offset: 0.27 ms


# Below is generated by plot.py at 2018-05-30 12:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 35.191 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 87.76 Mbit/s
95th percentile per-packet one-way delay: 35.191 ms
Loss rate: 0.29%
```

Run 7: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 88.02 Mbit/s)   Flow 1 egress (mean 87.76 Mbit/s)

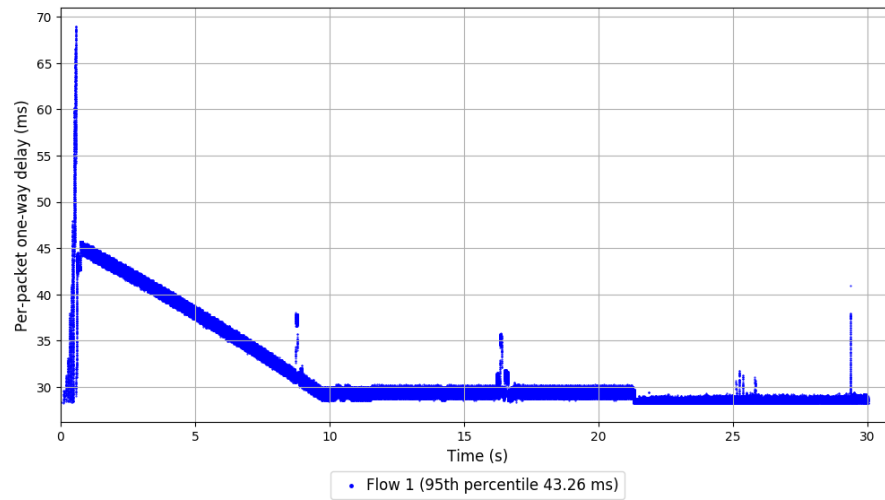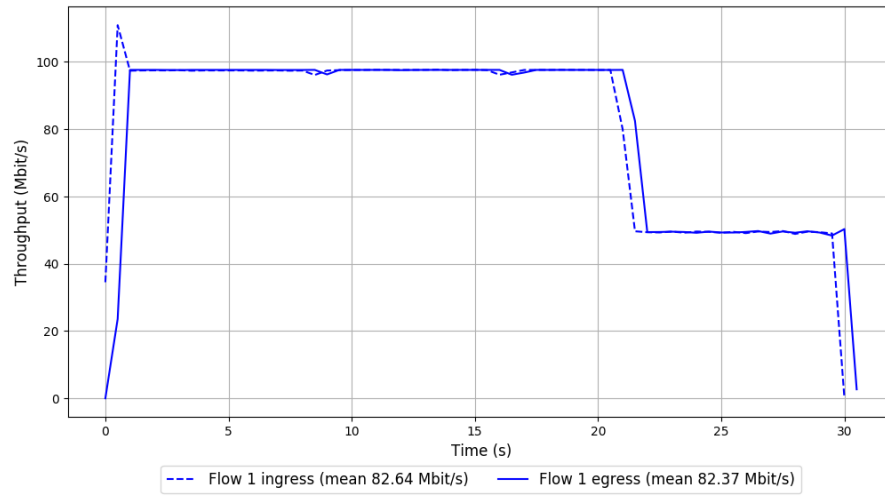Flow 1 (95th percentile 35.19 ms)

```
Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 10:52:06
End at: 2018-05-30 10:52:36
Local clock offset: 0.918 ms
Remote clock offset: -2.425 ms


# Below is generated by plot.py at 2018-05-30 12:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.37 Mbit/s
95th percentile per-packet one-way delay: 43.255 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 82.37 Mbit/s
95th percentile per-packet one-way delay: 43.255 ms
Loss rate: 0.32%
```

Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 82.64 Mbit/s)   Flow 1 egress (mean 82.37 Mbit/s)

Flow 1 (95th percentile 43.26 ms)

```
Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 11:13:01
End at: 2018-05-30 11:13:31
Local clock offset: 1.354 ms
Remote clock offset: -0.29 ms


# Below is generated by plot.py at 2018-05-30 12:16:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.04 Mbit/s
95th percentile per-packet one-way delay: 48.651 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 69.04 Mbit/s
95th percentile per-packet one-way delay: 48.651 ms
Loss rate: 0.39%
```
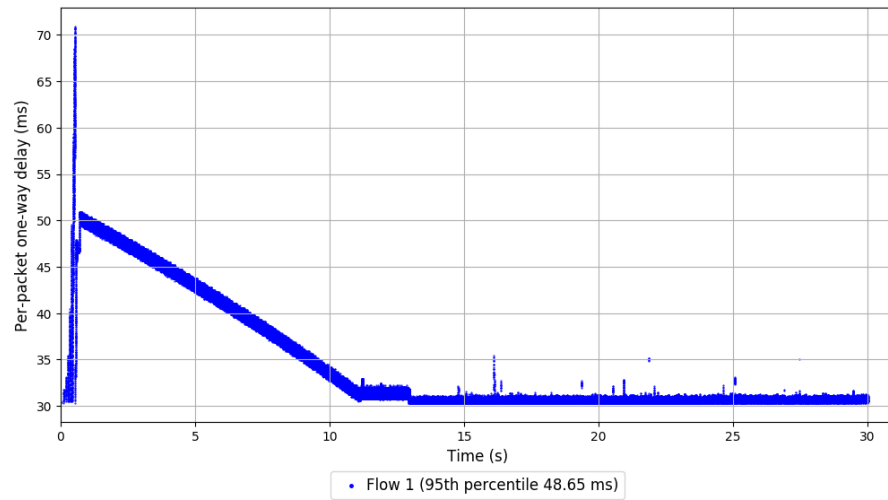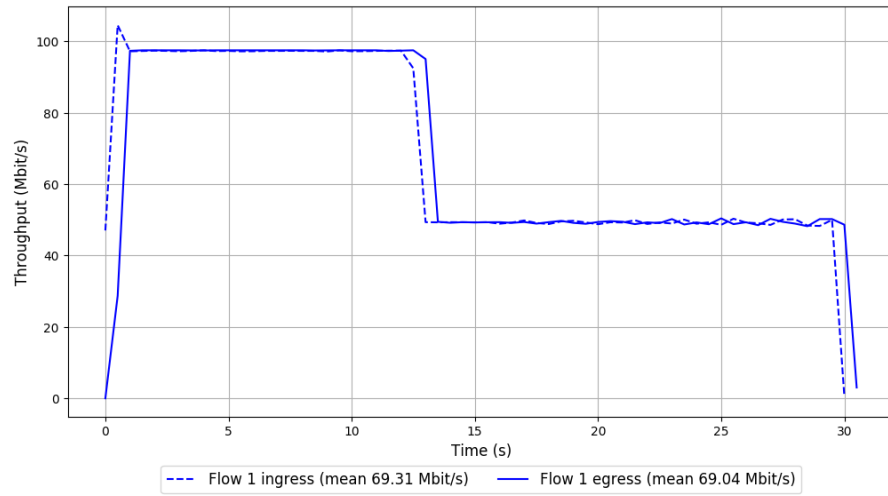
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 69.31 Mbit/s)   Flow 1 egress (mean 69.04 Mbit/s)

Flow 1 (95th percentile 48.65 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 11:33:53
End at: 2018-05-30 11:34:24
Local clock offset: 1.856 ms
Remote clock offset: -0.204 ms


# Below is generated by plot.py at 2018-05-30 12:16:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.84 Mbit/s
95th percentile per-packet one-way delay: 44.803 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 85.84 Mbit/s
95th percentile per-packet one-way delay: 44.803 ms
Loss rate: 0.31%
```
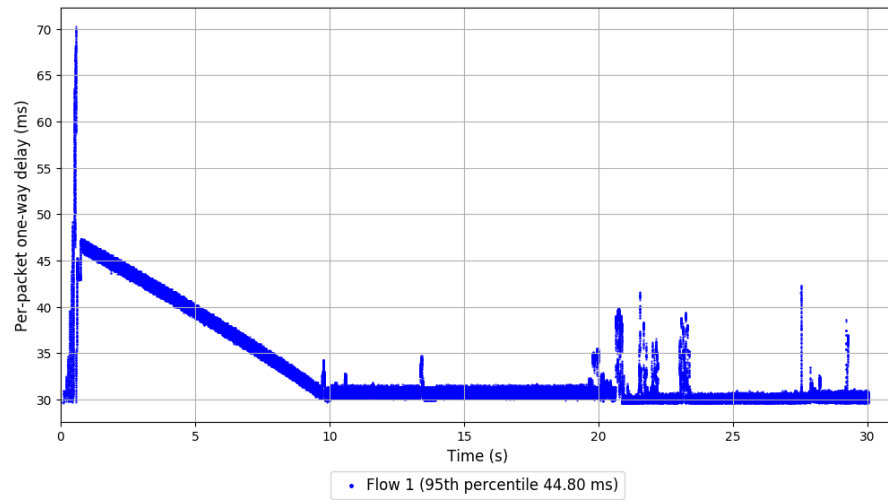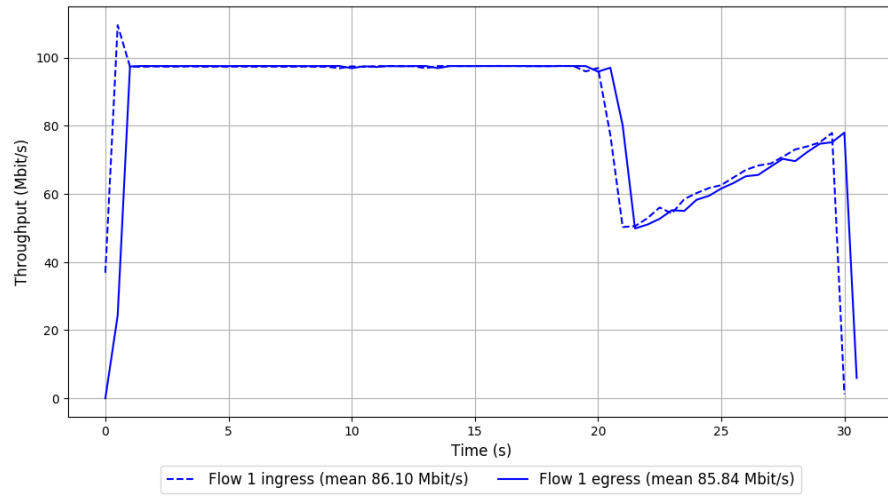
Run 10: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 86.10 Mbit/s)   Flow 1 egress (mean 85.84 Mbit/s)
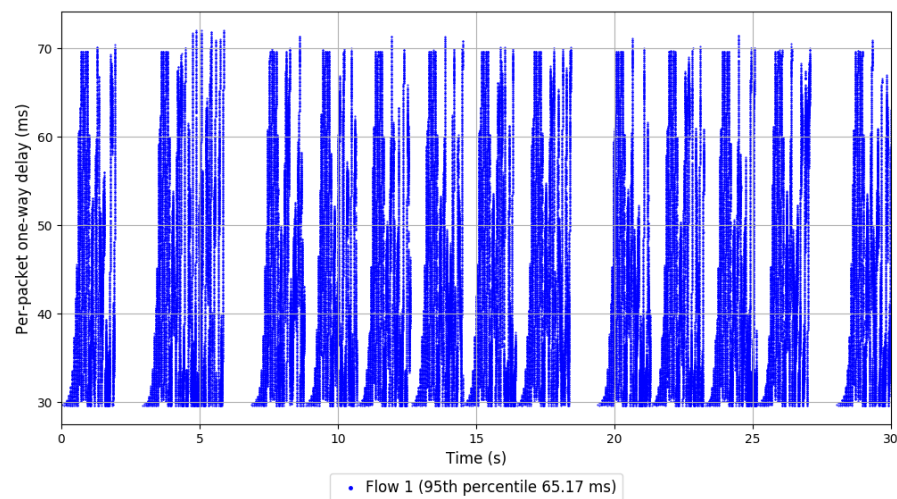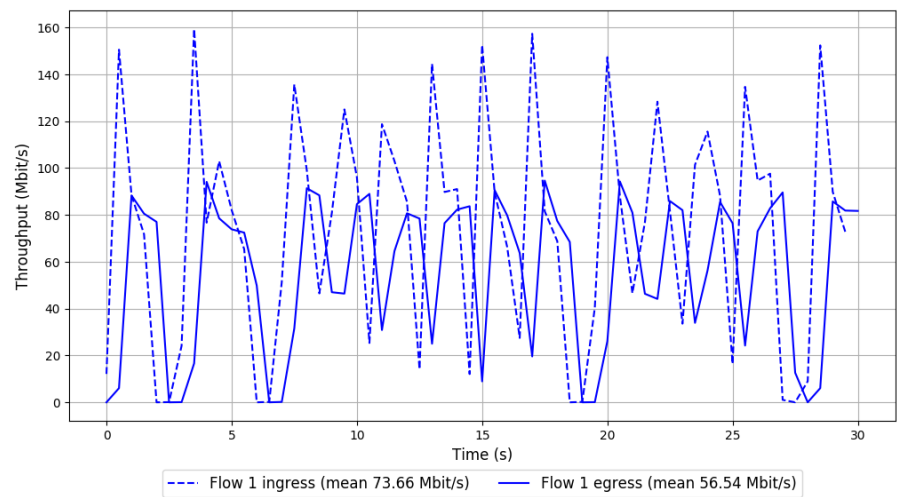

Flow 1 (95th percentile 44.80 ms)

```
Run 1: Statistics of Verus

Start at: 2018-05-30 08:30:58
End at: 2018-05-30 08:31:28
Local clock offset: 1.549 ms
Remote clock offset: -2.824 ms


# Below is generated by plot.py at 2018-05-30 12:16:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.54 Mbit/s
95th percentile per-packet one-way delay: 65.171 ms
Loss rate: 23.16%
-- Flow 1:
Average throughput: 56.54 Mbit/s
95th percentile per-packet one-way delay: 65.171 ms
Loss rate: 23.16%
```

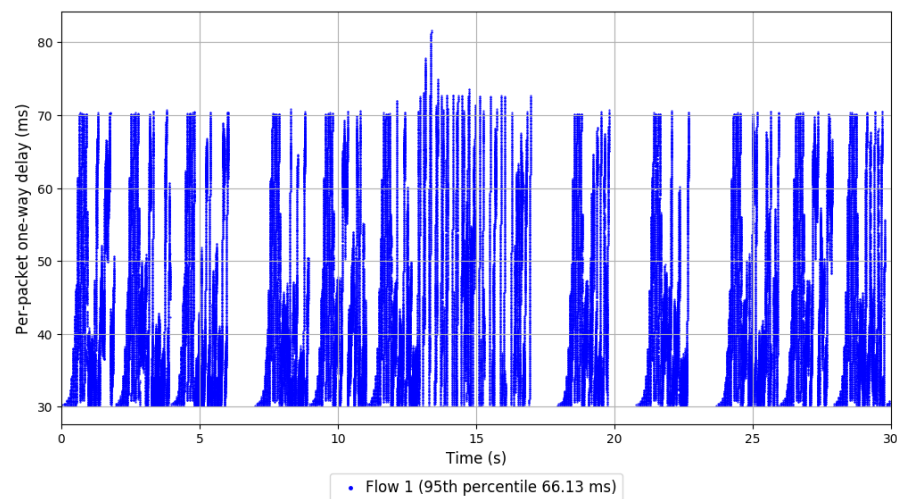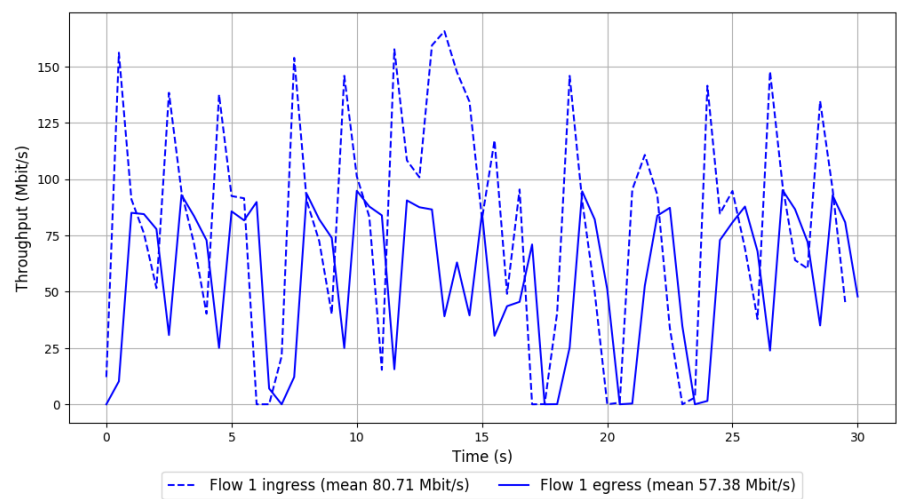Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2018-05-30 08:51:54
End at: 2018-05-30 08:52:24
Local clock offset: 1.394 ms
Remote clock offset: -3.025 ms


# Below is generated by plot.py at 2018-05-30 12:16:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 66.130 ms
Loss rate: 28.90%
-- Flow 1:
Average throughput: 57.38 Mbit/s
95th percentile per-packet one-way delay: 66.130 ms
Loss rate: 28.90%
```

Run 2: Report of Verus — Data Link

Flow 1 ingress (mean 80.71 Mbit/s)   Flow 1 egress (mean 57.38 Mbit/s)

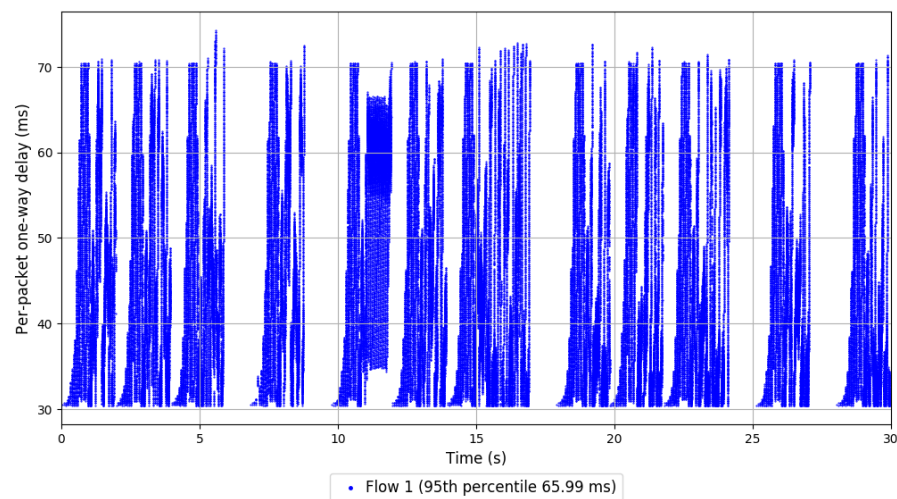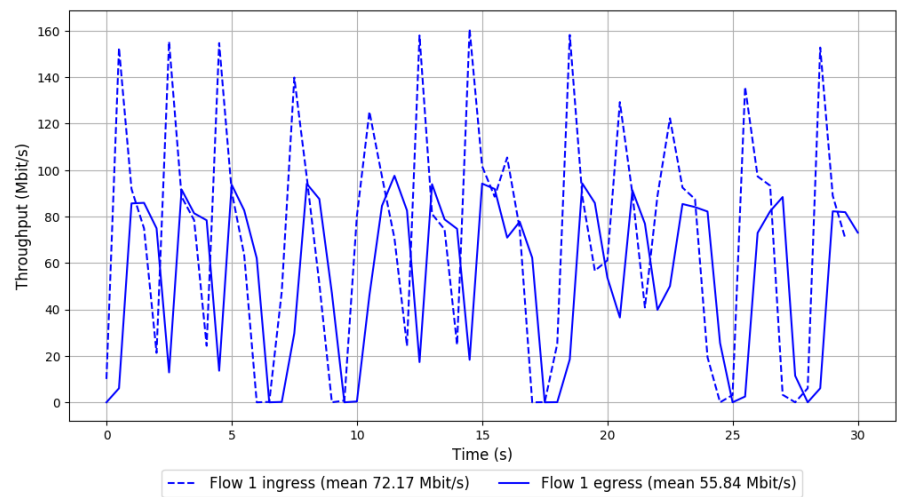• Flow 1 (95th percentile 66.13 ms)

```
Run 3: Statistics of Verus

Start at: 2018-05-30 09:12:47
End at: 2018-05-30 09:13:17
Local clock offset: 1.024 ms
Remote clock offset: -3.848 ms


# Below is generated by plot.py at 2018-05-30 12:16:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.84 Mbit/s
95th percentile per-packet one-way delay: 65.991 ms
Loss rate: 22.62%
-- Flow 1:
Average throughput: 55.84 Mbit/s
95th percentile per-packet one-way delay: 65.991 ms
Loss rate: 22.62%
```

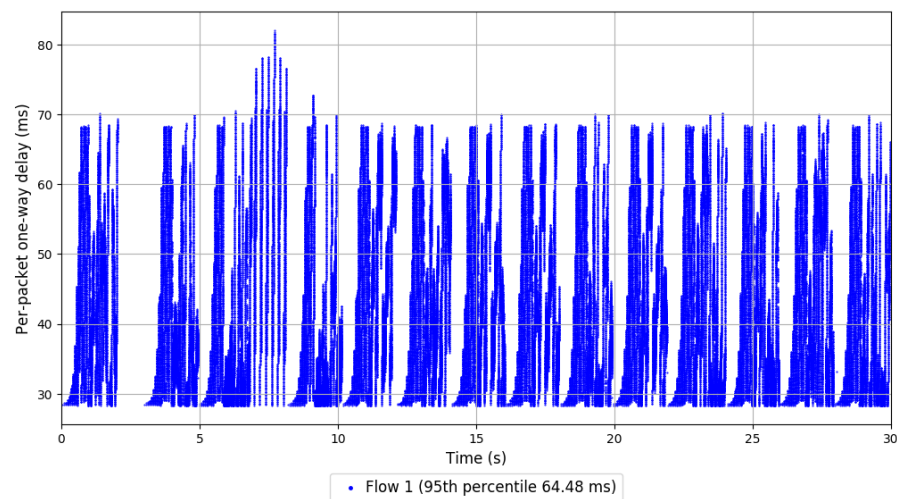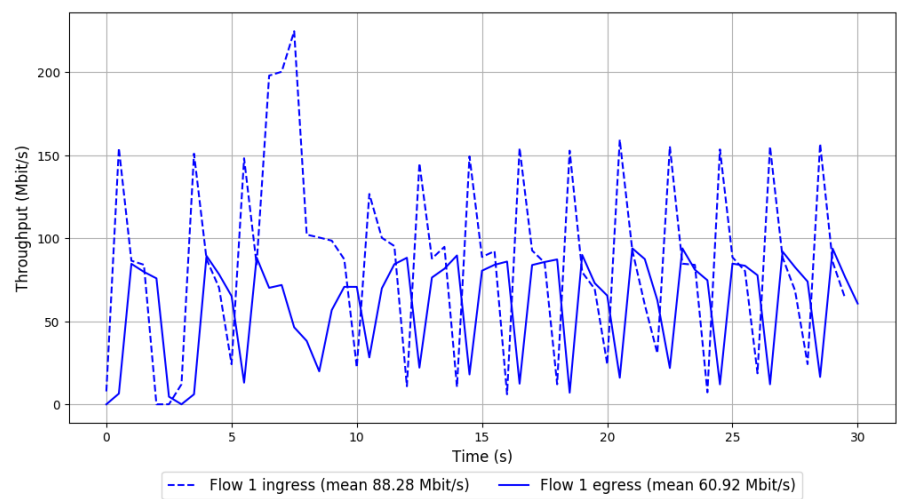Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-05-30 09:33:42
End at: 2018-05-30 09:34:12
Local clock offset: 0.588 ms
Remote clock offset: -2.392 ms


# Below is generated by plot.py at 2018-05-30 12:16:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.92 Mbit/s
95th percentile per-packet one-way delay: 64.480 ms
Loss rate: 30.92%
-- Flow 1:
Average throughput: 60.92 Mbit/s
95th percentile per-packet one-way delay: 64.480 ms
Loss rate: 30.92%
```

Run 4: Report of Verus — Data Link

```
Run 5: Statistics of Verus

Start at: 2018-05-30 09:54:40
End at: 2018-05-30 09:55:10
Local clock offset: 1.498 ms
Remote clock offset: 0.398 ms


# Below is generated by plot.py at 2018-05-30 12:17:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.88 Mbit/s
95th percentile per-packet one-way delay: 66.432 ms
Loss rate: 27.83%
-- Flow 1:
Average throughput: 62.88 Mbit/s
95th percentile per-packet one-way delay: 66.432 ms
Loss rate: 27.83%
```
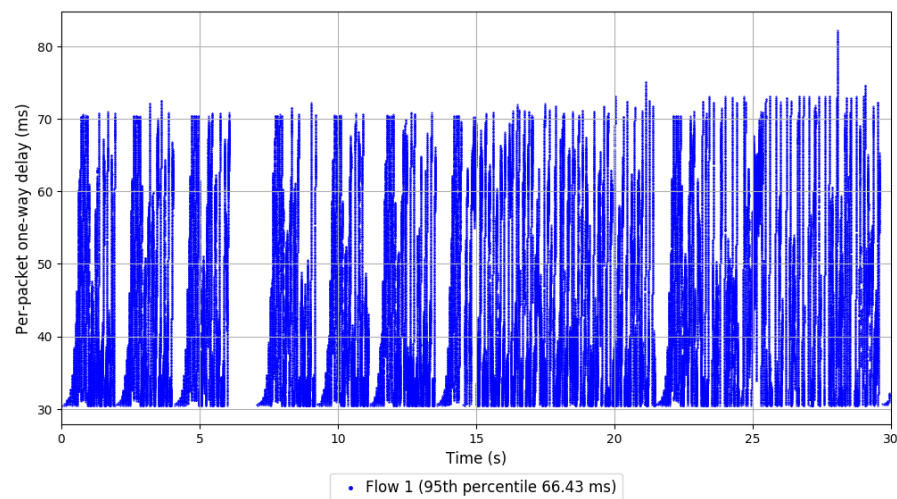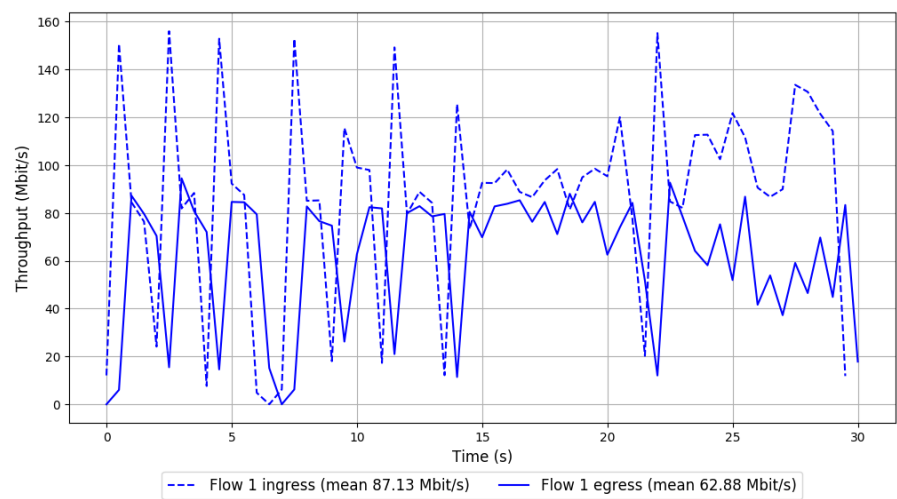
Run 5: Report of Verus — Data Link

Flow 1 ingress (mean 87.13 Mbit/s) ---- Flow 1 egress (mean 62.88 Mbit/s) ——

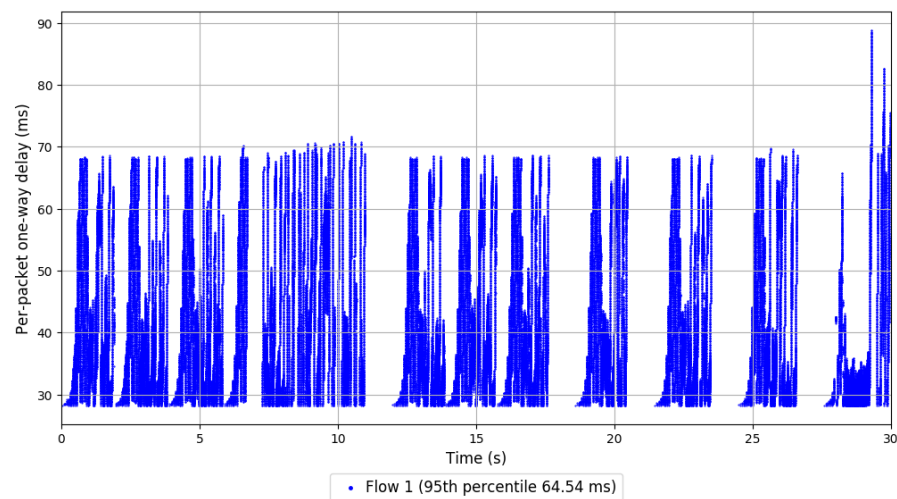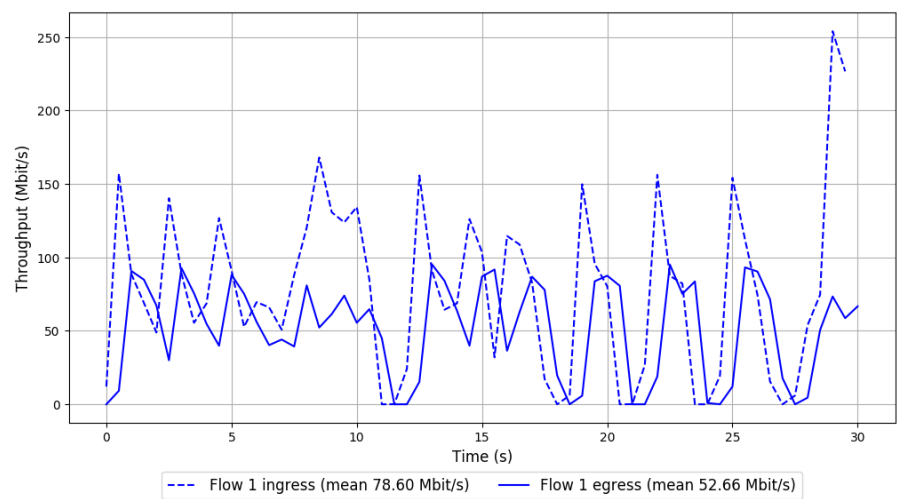Flow 1 (95th percentile 66.43 ms) ·

```
Run 6: Statistics of Verus

Start at: 2018-05-30 10:15:37
End at: 2018-05-30 10:16:07
Local clock offset: 1.123 ms
Remote clock offset: -1.964 ms


# Below is generated by plot.py at 2018-05-30 12:17:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.66 Mbit/s
95th percentile per-packet one-way delay: 64.538 ms
Loss rate: 32.92%
-- Flow 1:
Average throughput: 52.66 Mbit/s
95th percentile per-packet one-way delay: 64.538 ms
Loss rate: 32.92%
```

Run 6: Report of Verus — Data Link

```
Run 7: Statistics of Verus

Start at: 2018-05-30 10:36:32
End at: 2018-05-30 10:37:02
Local clock offset: 0.82 ms
Remote clock offset: 0.177 ms


# Below is generated by plot.py at 2018-05-30 12:17:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 66.368 ms
Loss rate: 23.44%
-- Flow 1:
Average throughput: 59.68 Mbit/s
95th percentile per-packet one-way delay: 66.368 ms
Loss rate: 23.44%
```
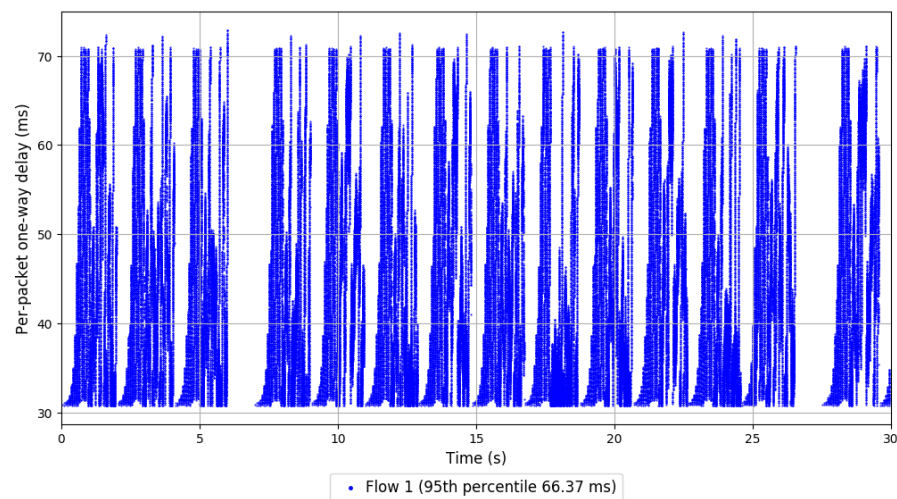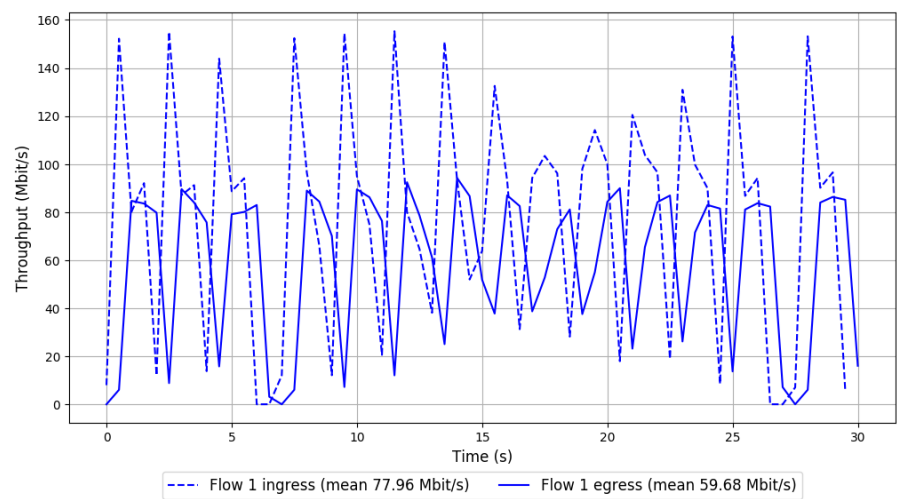
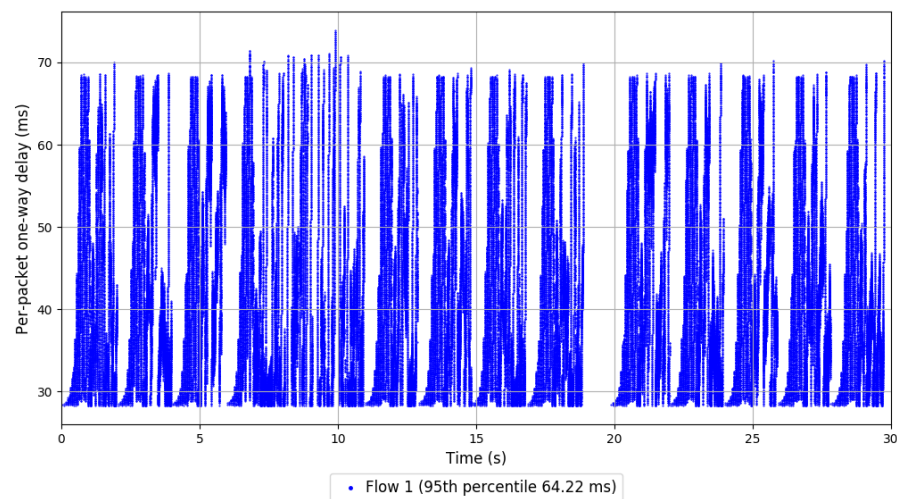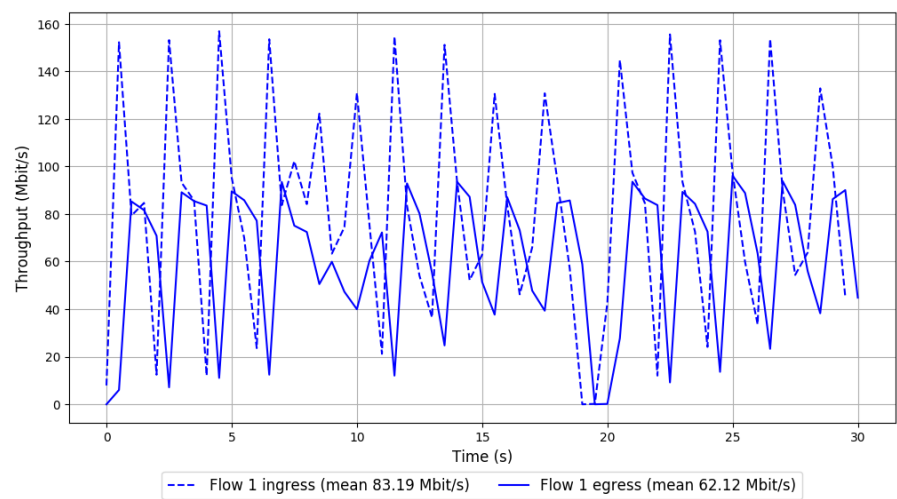Run 7: Report of Verus — Data Link

```
Run 8: Statistics of Verus

Start at: 2018-05-30 10:57:25
End at: 2018-05-30 10:57:55
Local clock offset: 0.922 ms
Remote clock offset: -2.369 ms


# Below is generated by plot.py at 2018-05-30 12:17:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.12 Mbit/s
95th percentile per-packet one-way delay: 64.223 ms
Loss rate: 25.32%
-- Flow 1:
Average throughput: 62.12 Mbit/s
95th percentile per-packet one-way delay: 64.223 ms
Loss rate: 25.32%
```
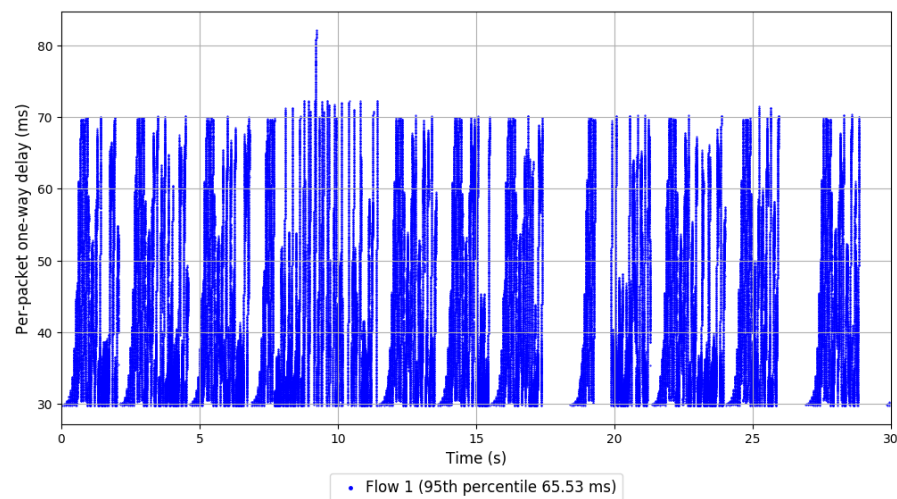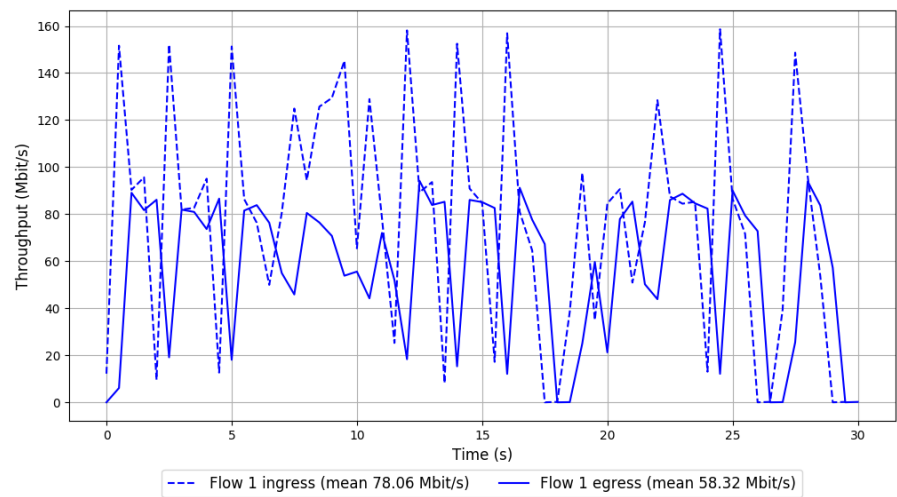
Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2018-05-30 11:18:18
End at: 2018-05-30 11:18:48
Local clock offset: 1.482 ms
Remote clock offset: -0.161 ms


# Below is generated by plot.py at 2018-05-30 12:17:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.32 Mbit/s
95th percentile per-packet one-way delay: 65.528 ms
Loss rate: 25.28%
-- Flow 1:
Average throughput: 58.32 Mbit/s
95th percentile per-packet one-way delay: 65.528 ms
Loss rate: 25.28%
```

Run 9: Report of Verus — Data Link

Flow 1 ingress (mean 78.06 Mbit/s) --- Flow 1 egress (mean 58.32 Mbit/s)
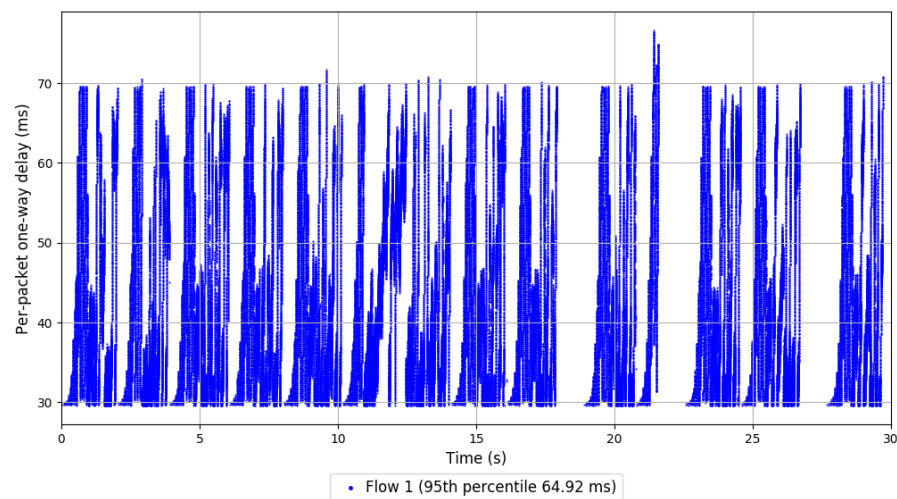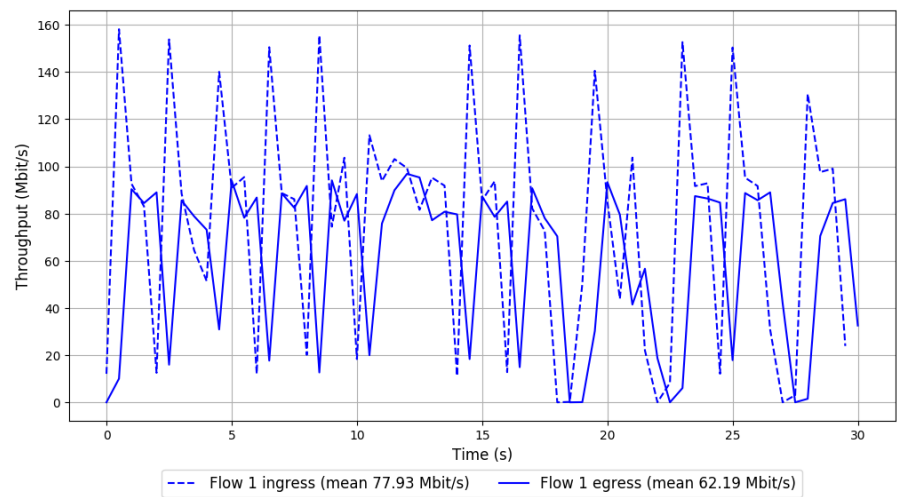

Flow 1 (95th percentile 65.53 ms)

```
Run 10: Statistics of Verus

Start at: 2018-05-30 11:39:11
End at: 2018-05-30 11:39:41
Local clock offset: 1.581 ms
Remote clock offset: -0.294 ms


# Below is generated by plot.py at 2018-05-30 12:17:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 64.917 ms
Loss rate: 20.12%
-- Flow 1:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 64.917 ms
Loss rate: 20.12%
```

Run 10: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 08:28:23
End at: 2018-05-30 08:28:53
Local clock offset: 1.525 ms
Remote clock offset: -4.694 ms


# Below is generated by plot.py at 2018-05-30 12:17:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 29.471 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 29.471 ms
Loss rate: 0.00%
```
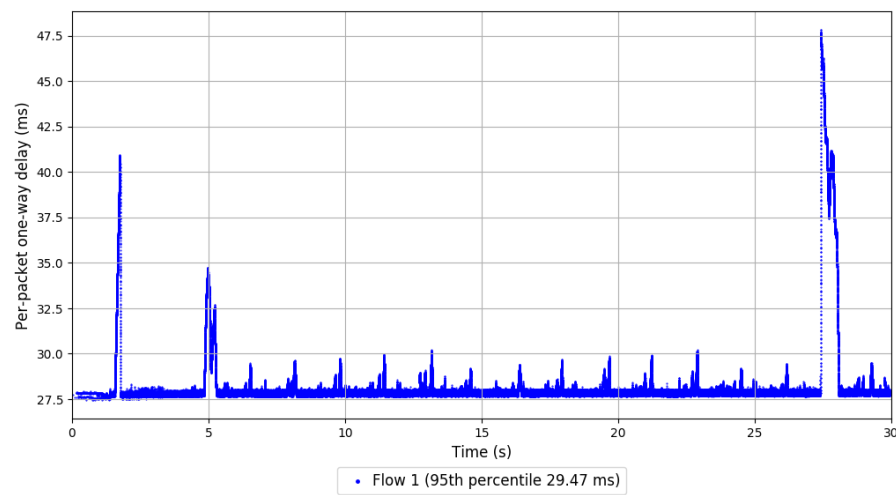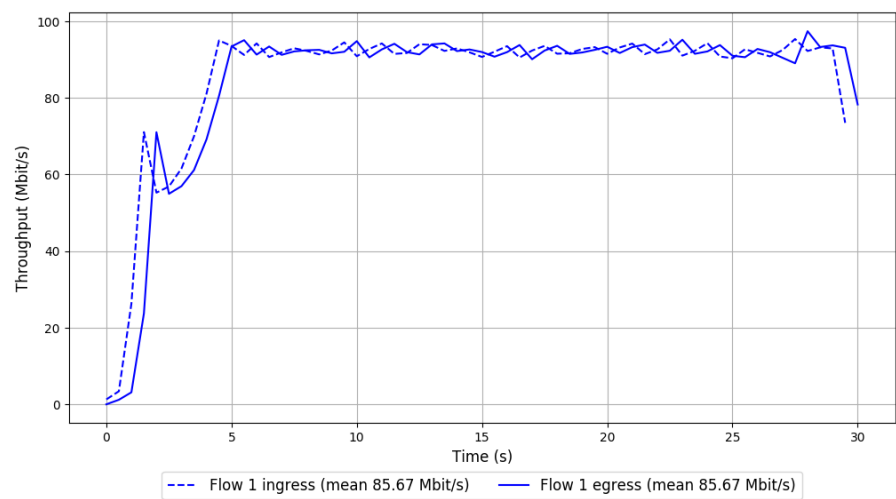
Run 1: Report of PCC-Vivace — Data Link

```
Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 08:49:15
End at: 2018-05-30 08:49:45
Local clock offset: 1.472 ms
Remote clock offset: -2.981 ms


# Below is generated by plot.py at 2018-05-30 12:18:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 40.506 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 40.506 ms
Loss rate: 0.02%
```
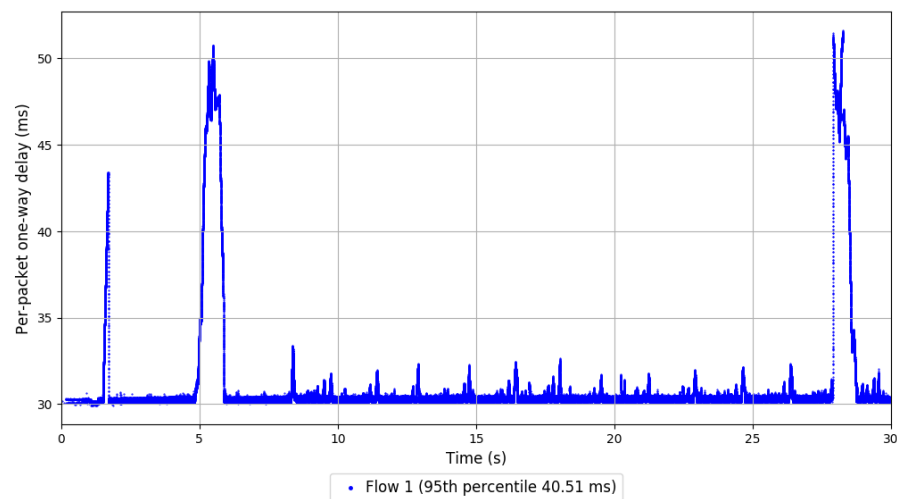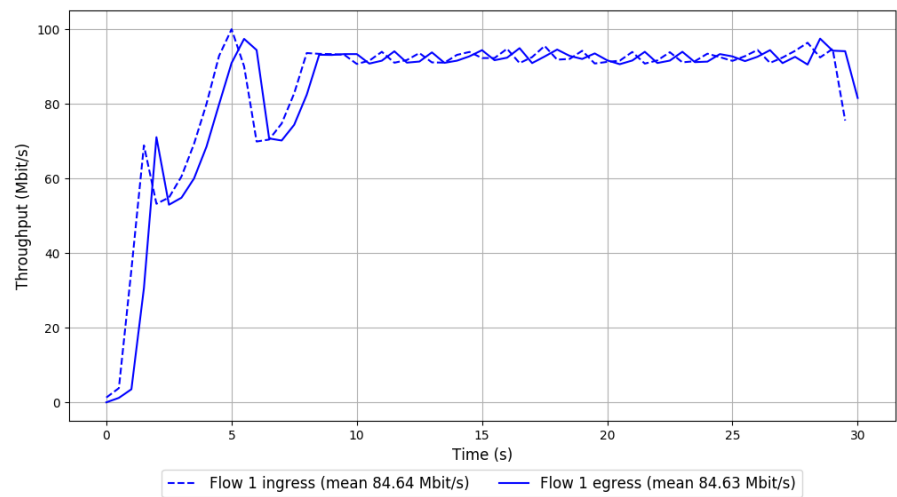
Run 2: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 84.64 Mbit/s)   Flow 1 egress (mean 84.63 Mbit/s)

• Flow 1 (95th percentile 40.51 ms)

```
Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 09:10:09
End at: 2018-05-30 09:10:39
Local clock offset: 1.162 ms
Remote clock offset: -3.834 ms


# Below is generated by plot.py at 2018-05-30 12:18:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 31.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.00 Mbit/s
95th percentile per-packet one-way delay: 31.909 ms
Loss rate: 0.00%
```
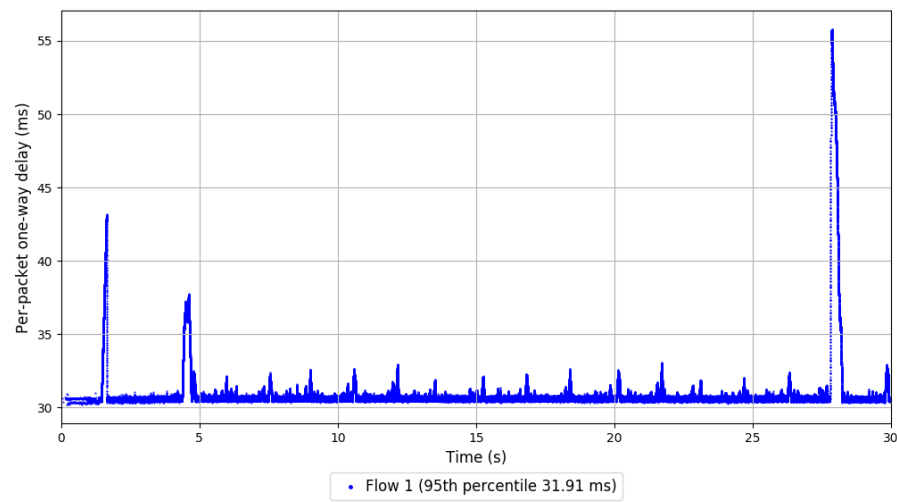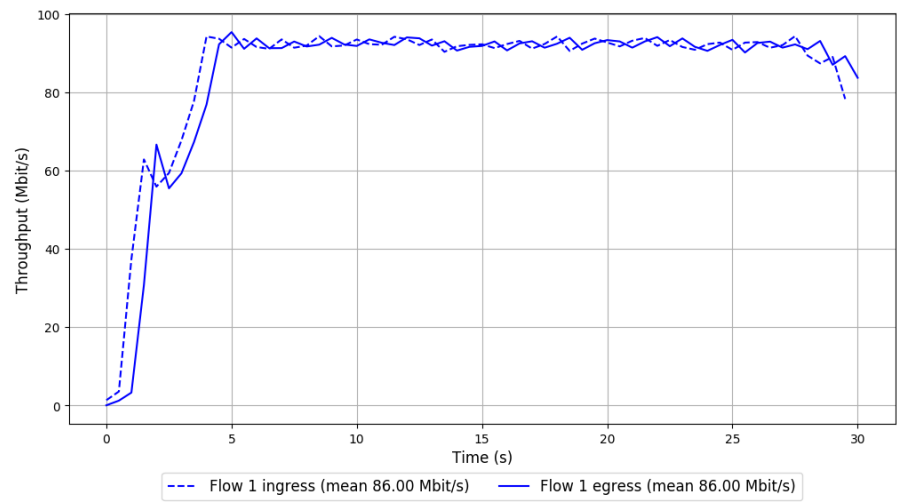
Run 3: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 86.00 Mbit/s)   Flow 1 egress (mean 86.00 Mbit/s)

Flow 1 (95th percentile 31.91 ms)

```
Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 09:31:03
End at: 2018-05-30 09:31:33
Local clock offset: 0.598 ms
Remote clock offset: -2.61 ms


# Below is generated by plot.py at 2018-05-30 12:18:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.34 Mbit/s
95th percentile per-packet one-way delay: 35.938 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 84.34 Mbit/s
95th percentile per-packet one-way delay: 35.938 ms
Loss rate: 0.07%
```
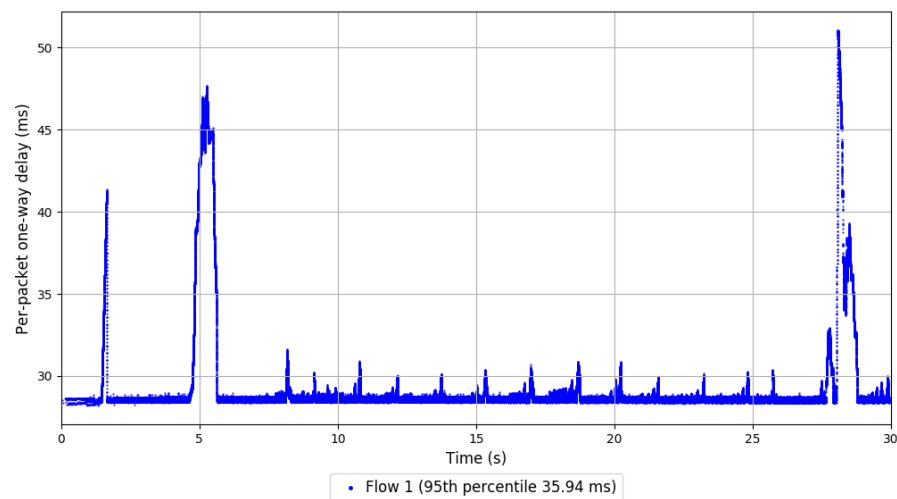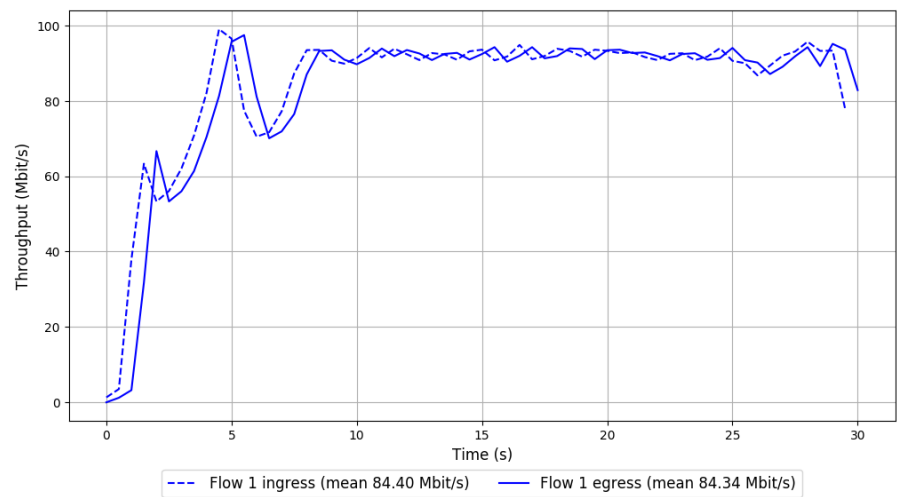
Run 4: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 84.40 Mbit/s) --- Flow 1 egress (mean 84.34 Mbit/s)

Flow 1 (95th percentile 35.94 ms)

```
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 09:52:01
End at: 2018-05-30 09:52:31
Local clock offset: 1.454 ms
Remote clock offset: 0.533 ms


# Below is generated by plot.py at 2018-05-30 12:18:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 32.164 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 84.88 Mbit/s
95th percentile per-packet one-way delay: 32.164 ms
Loss rate: 0.01%
```
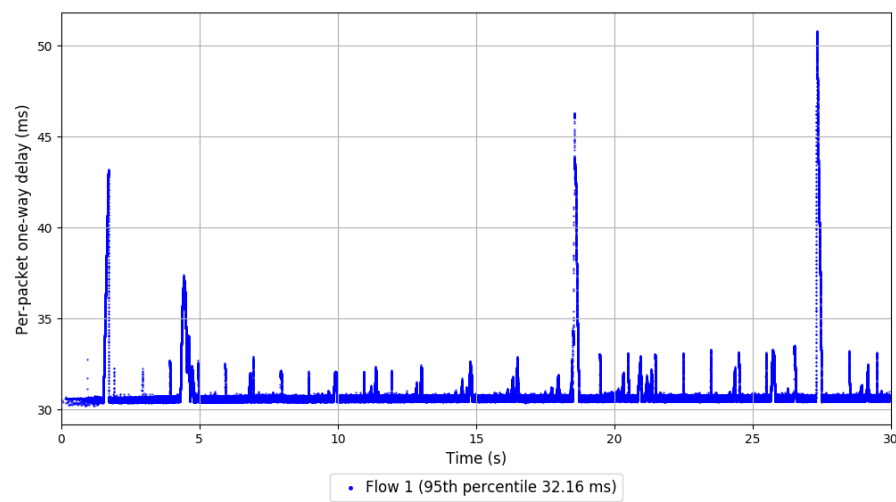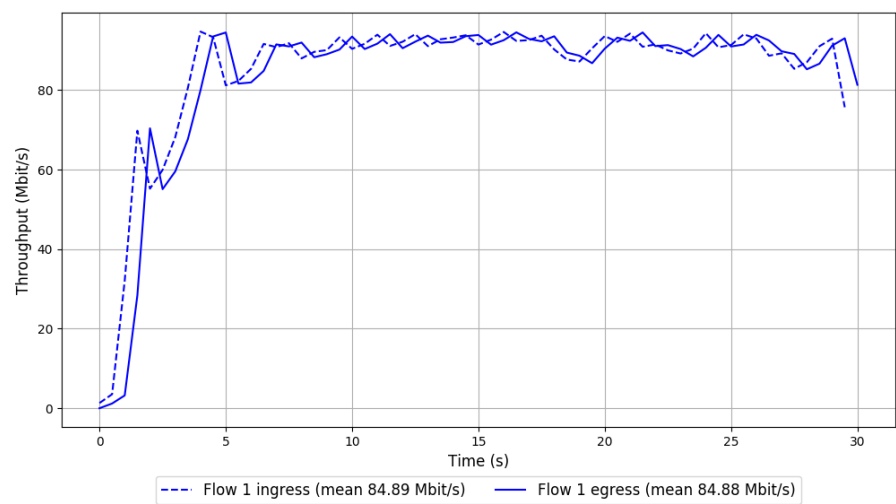
Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 84.89 Mbit/s)　　Flow 1 egress (mean 84.88 Mbit/s)

Flow 1 (95th percentile 32.16 ms)

```
Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 10:12:59
End at: 2018-05-30 10:13:29
Local clock offset: 1.14 ms
Remote clock offset: 0.545 ms


# Below is generated by plot.py at 2018-05-30 12:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.56 Mbit/s
95th percentile per-packet one-way delay: 32.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.56 Mbit/s
95th percentile per-packet one-way delay: 32.817 ms
Loss rate: 0.00%
```
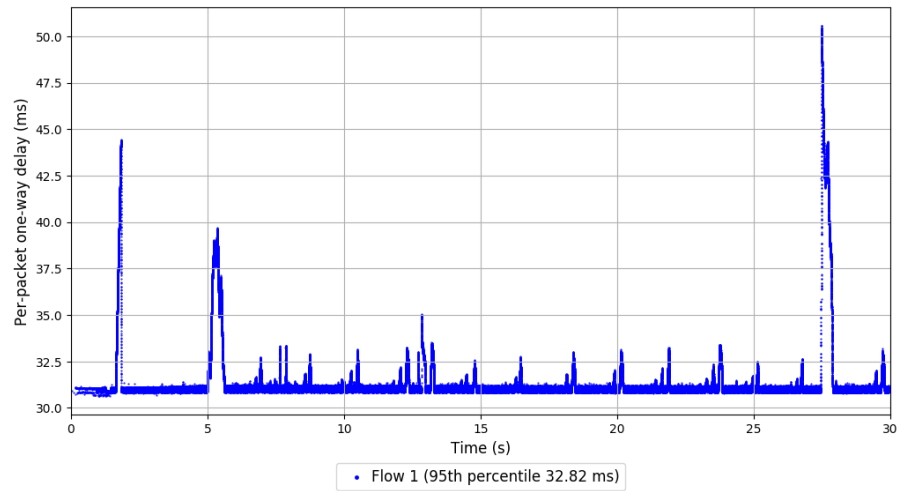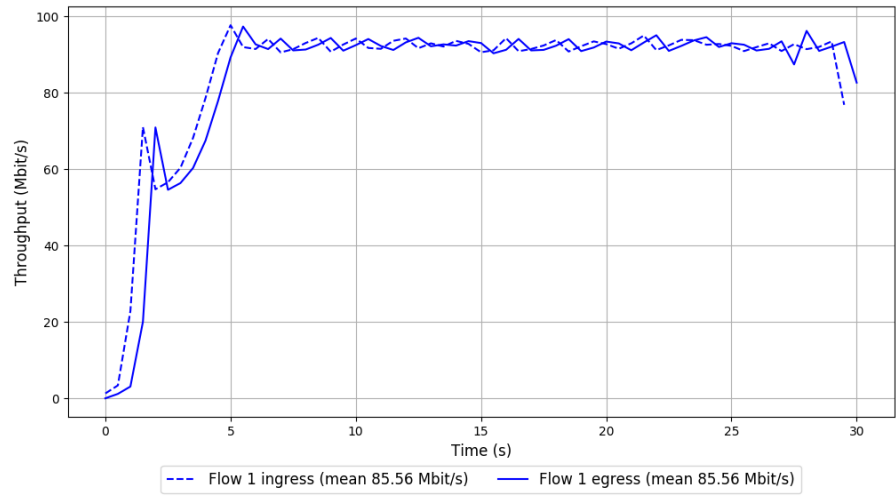
Run 6: Report of PCC-Vivace — Data Link

```
Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 10:33:54
End at: 2018-05-30 10:34:24
Local clock offset: 0.831 ms
Remote clock offset: 0.286 ms


# Below is generated by plot.py at 2018-05-30 12:18:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 32.445 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 85.71 Mbit/s
95th percentile per-packet one-way delay: 32.445 ms
Loss rate: 0.02%
```
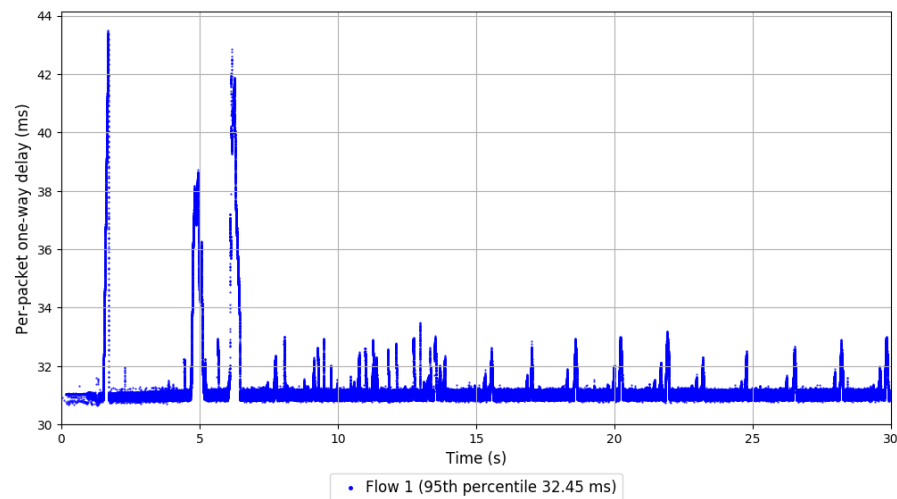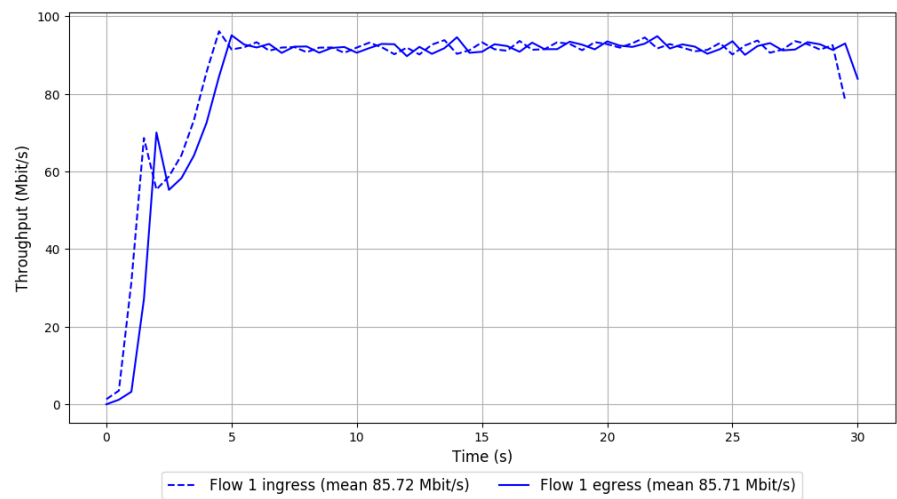
Run 7: Report of PCC-Vivace — Data Link

```
Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 10:54:46
End at: 2018-05-30 10:55:16
Local clock offset: 0.83 ms
Remote clock offset: 0.153 ms


# Below is generated by plot.py at 2018-05-30 12:18:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 33.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.72 Mbit/s
95th percentile per-packet one-way delay: 33.228 ms
Loss rate: 0.00%
```
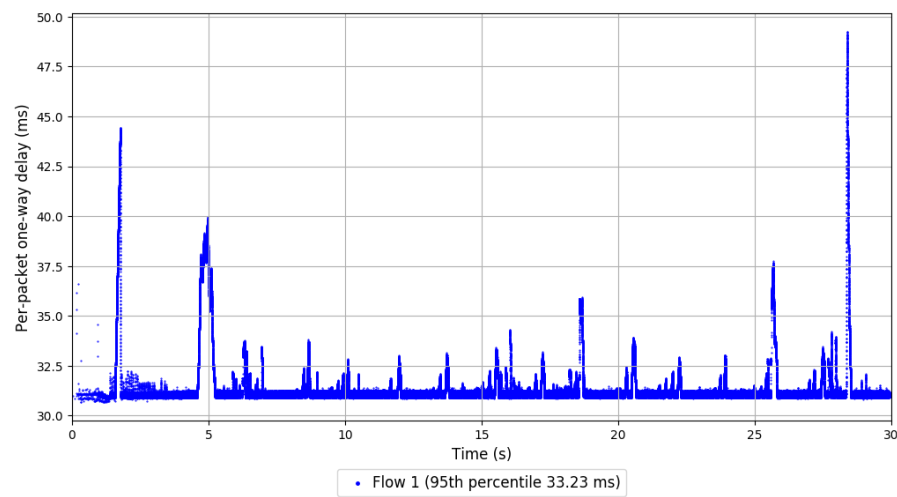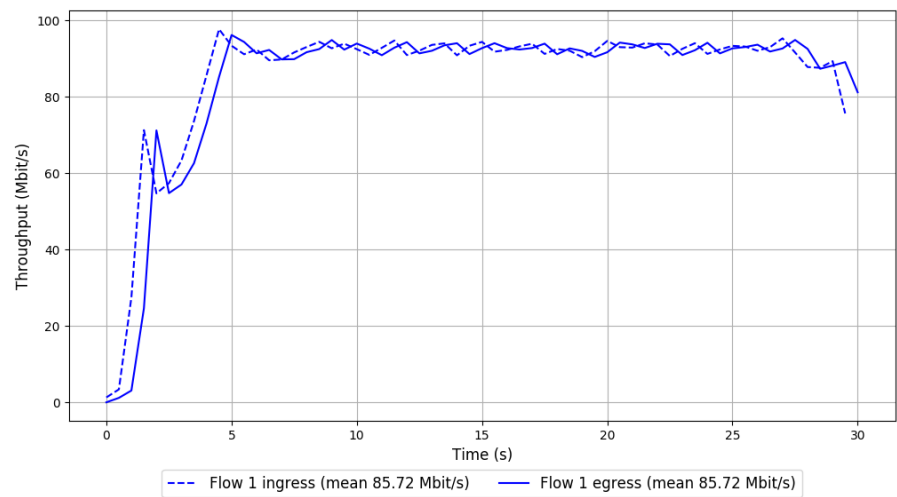
Run 8: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 85.72 Mbit/s)   Flow 1 egress (mean 85.72 Mbit/s)
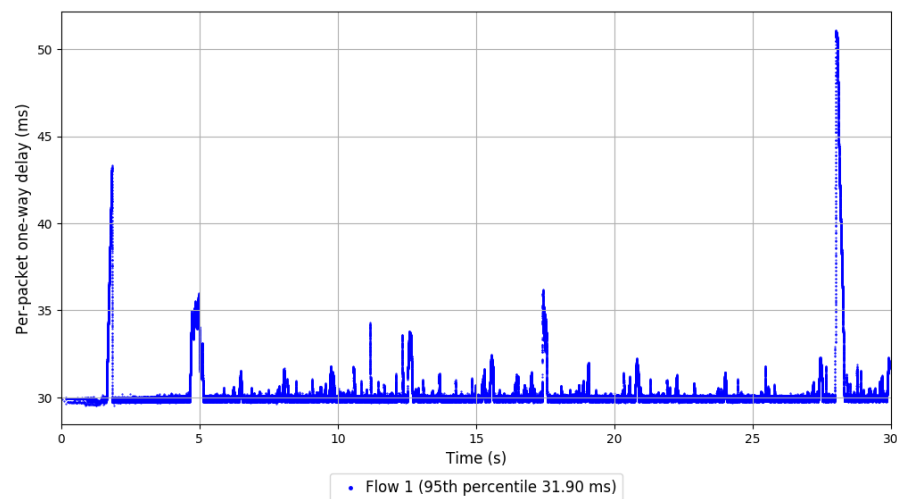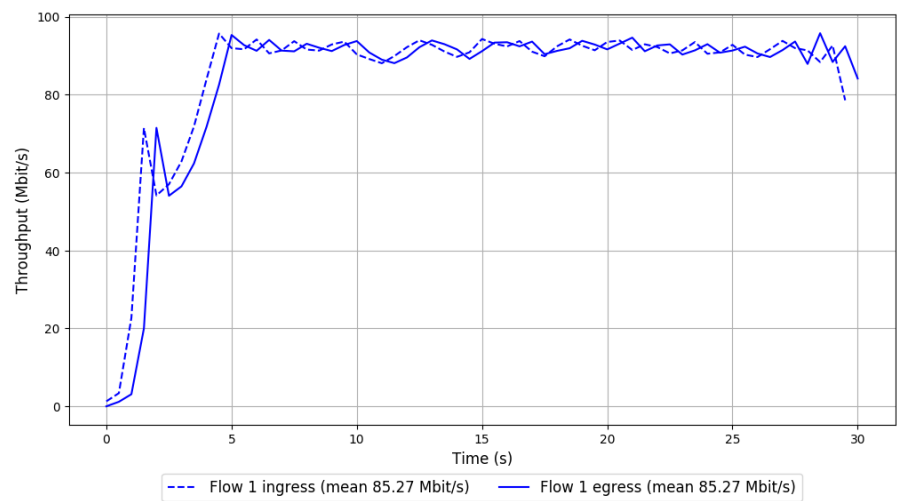

Flow 1 (95th percentile 33.23 ms)

```
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 11:15:40
End at: 2018-05-30 11:16:10
Local clock offset: 1.393 ms
Remote clock offset: -0.238 ms


# Below is generated by plot.py at 2018-05-30 12:18:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 31.901 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.27 Mbit/s
95th percentile per-packet one-way delay: 31.901 ms
Loss rate: 0.00%
```

Run 9: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 85.27 Mbit/s) — — —   Flow 1 egress (mean 85.27 Mbit/s)

• Flow 1 (95th percentile 31.90 ms)

```
Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 11:36:33
End at: 2018-05-30 11:37:03
Local clock offset: 1.754 ms
Remote clock offset: 0.178 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 32.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.82 Mbit/s
95th percentile per-packet one-way delay: 32.529 ms
Loss rate: 0.00%
```
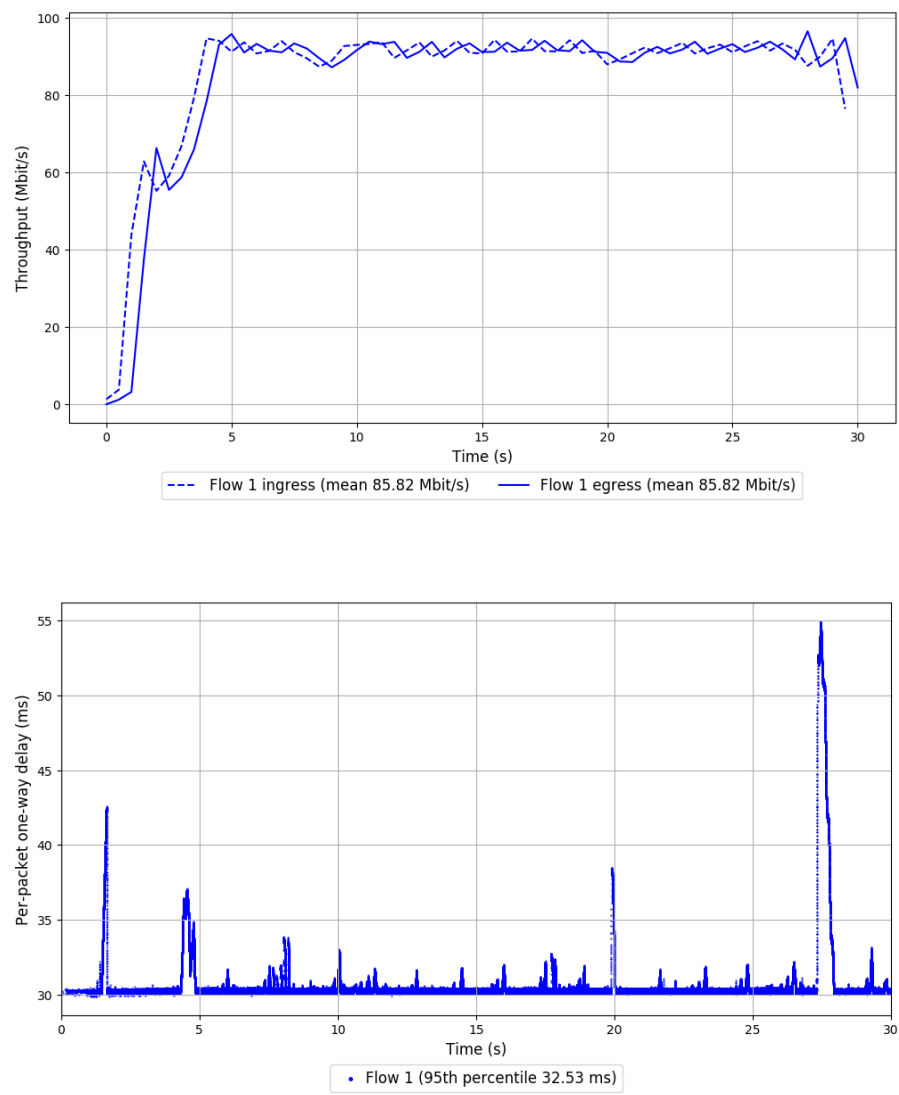
Run 10: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 85.82 Mbit/s)　　Flow 1 egress (mean 85.82 Mbit/s)
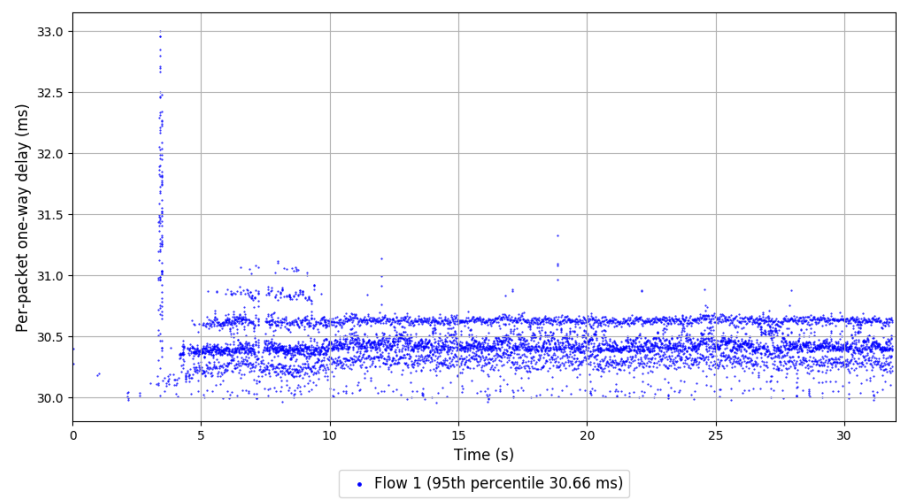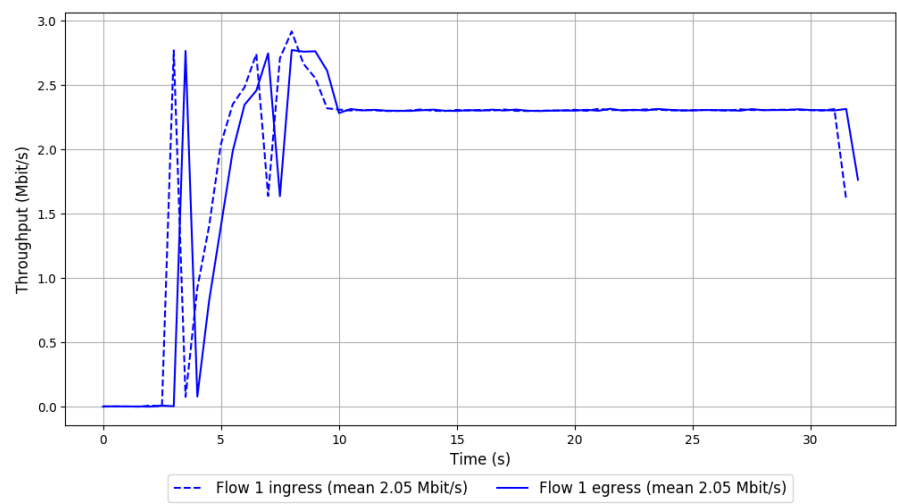

Flow 1 (95th percentile 32.53 ms)

```
Run 1: Statistics of WebRTC media

Start at: 2018-05-30 08:42:42
End at: 2018-05-30 08:43:12
Local clock offset: 1.419 ms
Remote clock offset: -2.786 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 30.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 30.660 ms
Loss rate: 0.00%
```
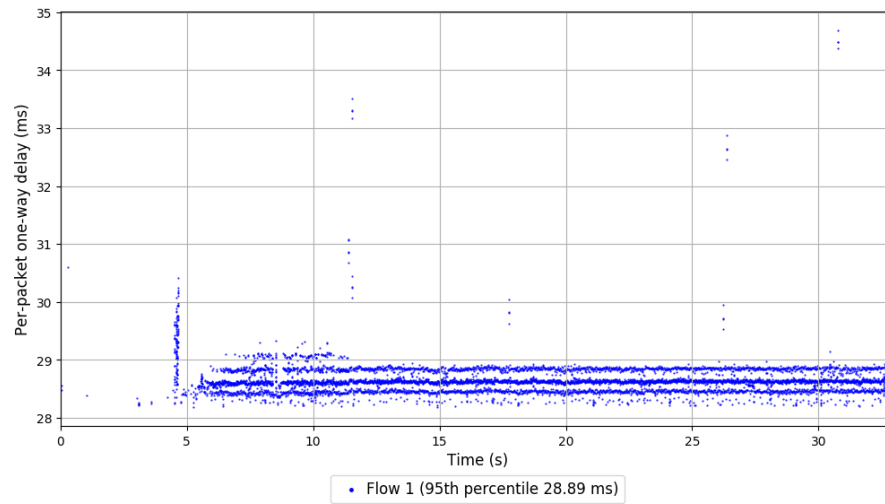
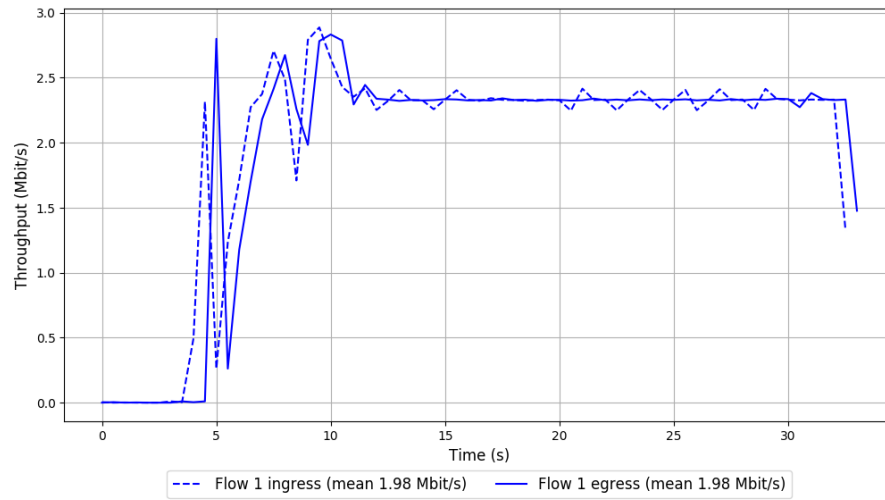Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-05-30 09:03:36
End at: 2018-05-30 09:04:06
Local clock offset: 1.422 ms
Remote clock offset: -5.761 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 28.886 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 28.886 ms
Loss rate: 0.00%
```

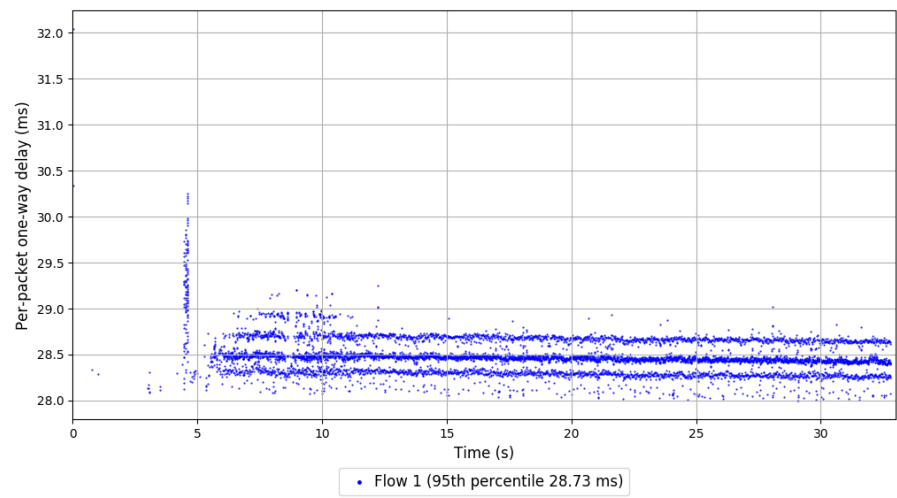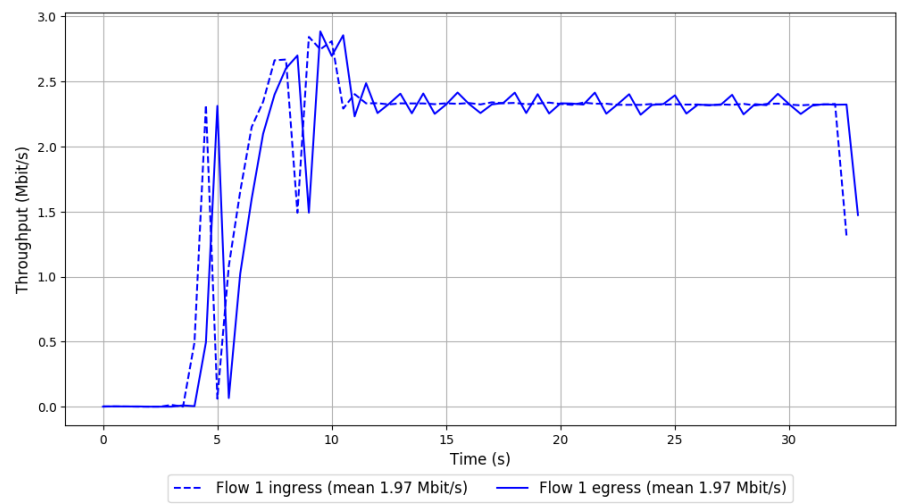Run 2: Report of WebRTC media — Data Link

```
Run 3: Statistics of WebRTC media

Start at: 2018-05-30 09:24:30
End at: 2018-05-30 09:25:00
Local clock offset: 0.698 ms
Remote clock offset: -3.604 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 28.728 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 28.728 ms
Loss rate: 0.00%
```

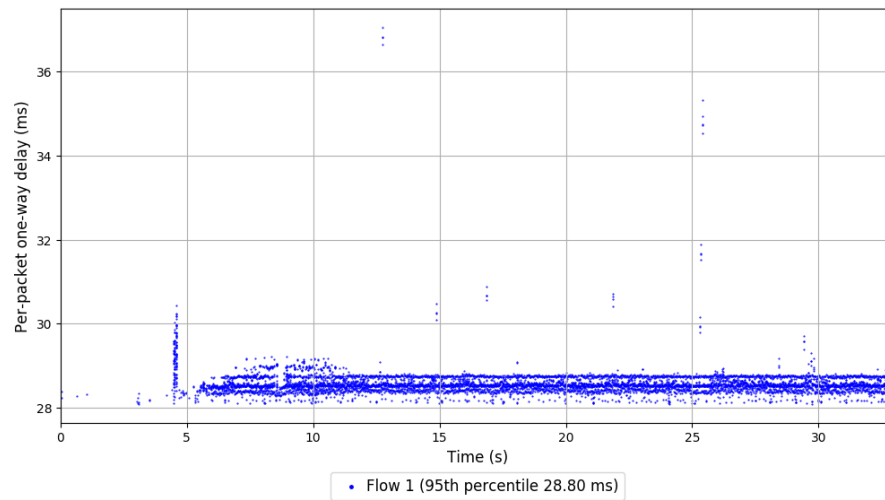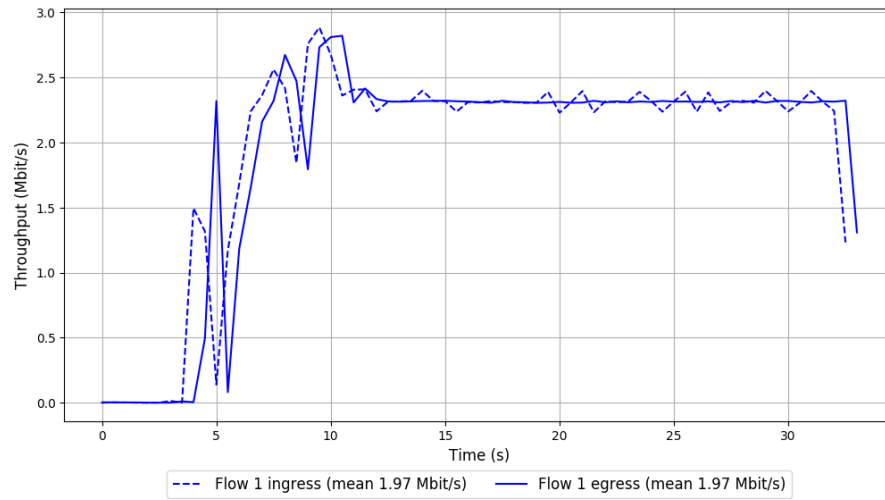Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-05-30 09:45:29
End at: 2018-05-30 09:45:59
Local clock offset: 1.171 ms
Remote clock offset: -1.637 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 28.795 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 28.795 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.97 Mbit/s) ---- Flow 1 egress (mean 1.97 Mbit/s) ——

Flow 1 (95th percentile 28.80 ms)

```
Run 5: Statistics of WebRTC media

Start at: 2018-05-30 10:06:24
End at: 2018-05-30 10:06:54
Local clock offset: 1.646 ms
Remote clock offset: -1.982 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 28.674 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 28.674 ms
Loss rate: 0.00%
```
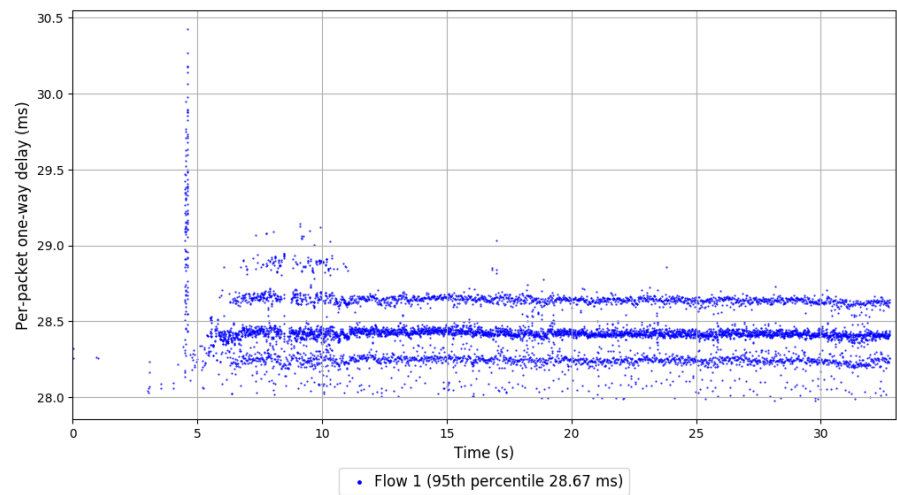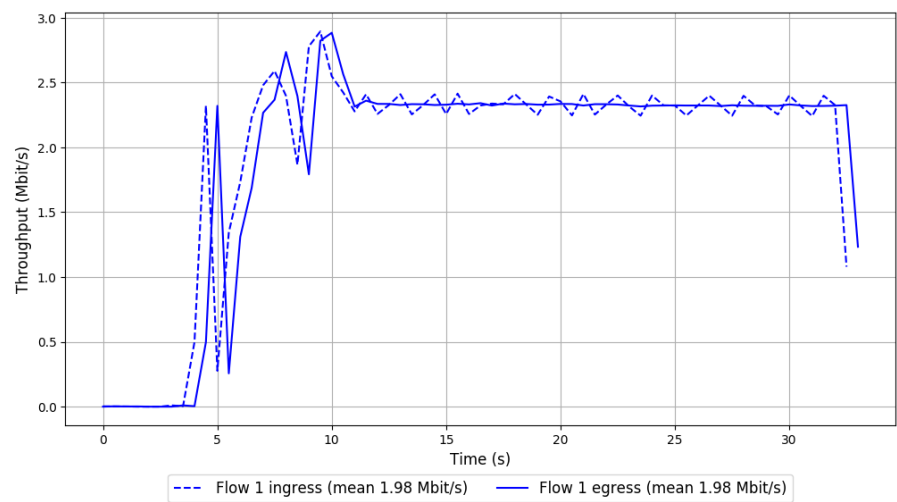
Run 5: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.98 Mbit/s)   Flow 1 egress (mean 1.98 Mbit/s)
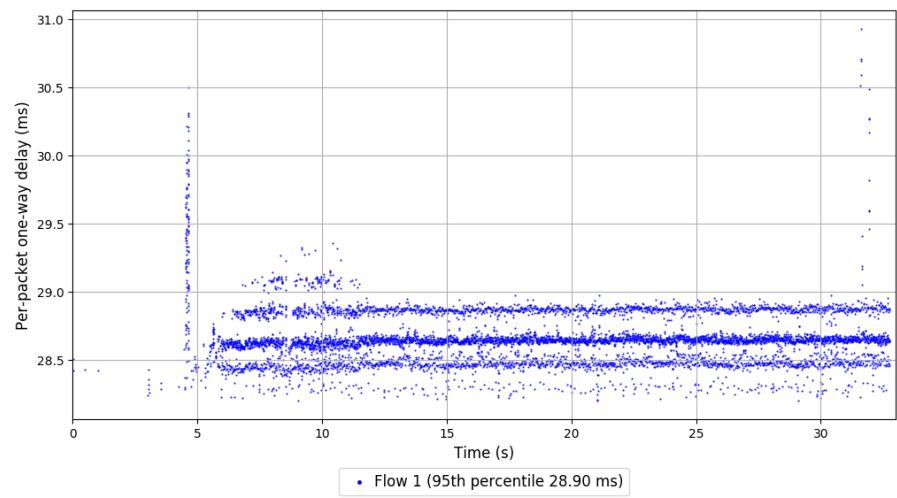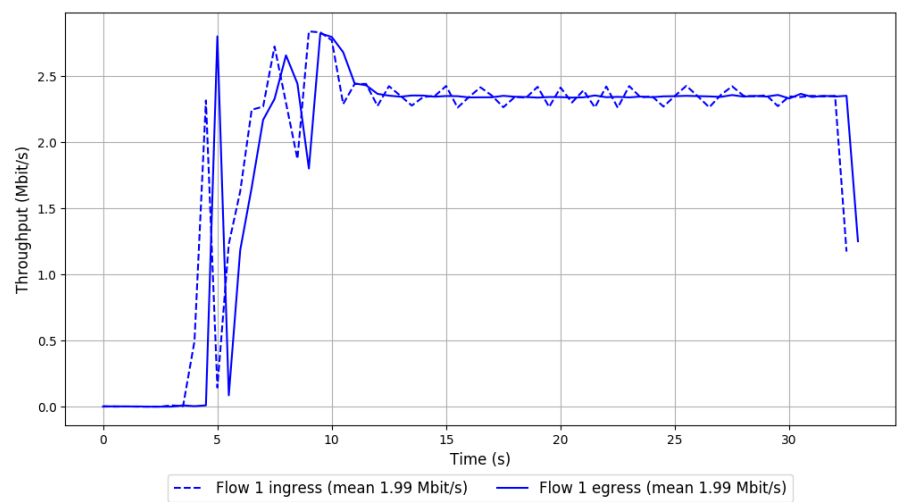

Flow 1 (95th percentile 28.67 ms)

```
Run 6: Statistics of WebRTC media

Start at: 2018-05-30 10:27:21
End at: 2018-05-30 10:27:51
Local clock offset: 0.806 ms
Remote clock offset: -2.012 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 28.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 28.904 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-05-30 10:48:13
End at: 2018-05-30 10:48:43
Local clock offset: 0.826 ms
Remote clock offset: 0.129 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 31.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 31.343 ms
Loss rate: 0.00%
```
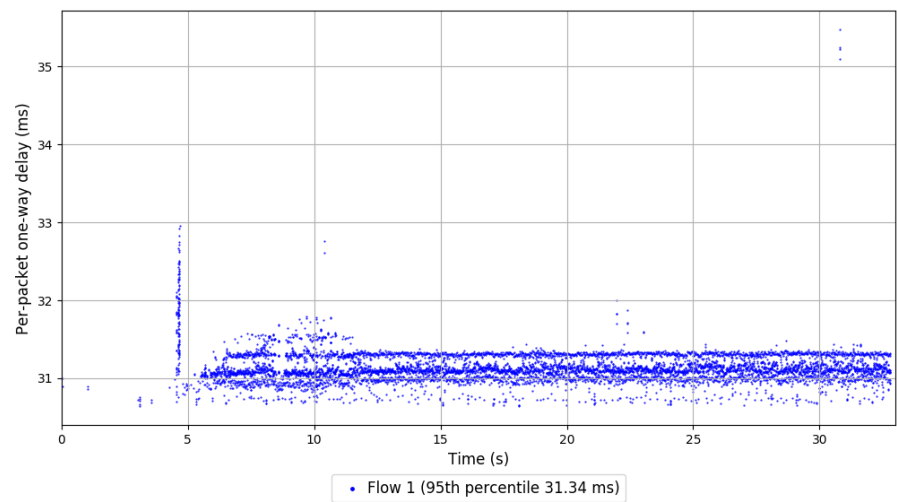
Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-05-30 11:09:08
End at: 2018-05-30 11:09:38
Local clock offset: 1.105 ms
Remote clock offset: -2.294 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 28.834 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 28.834 ms
Loss rate: 0.00%
```
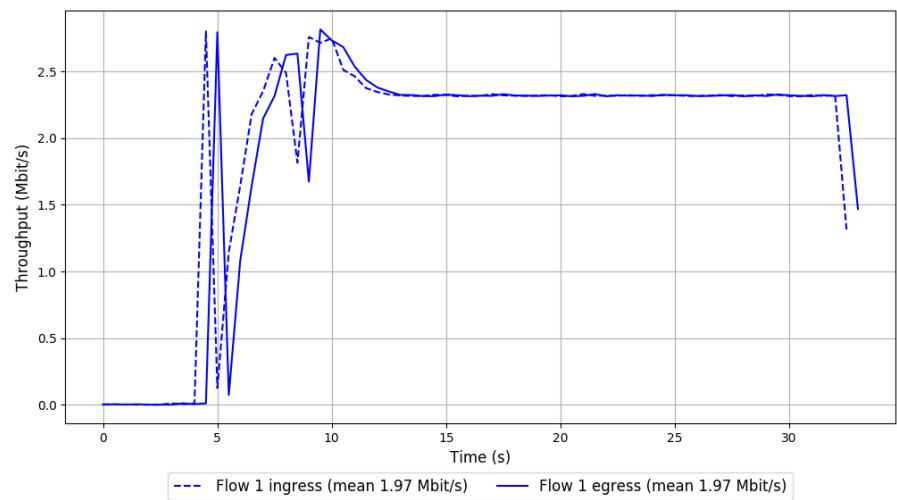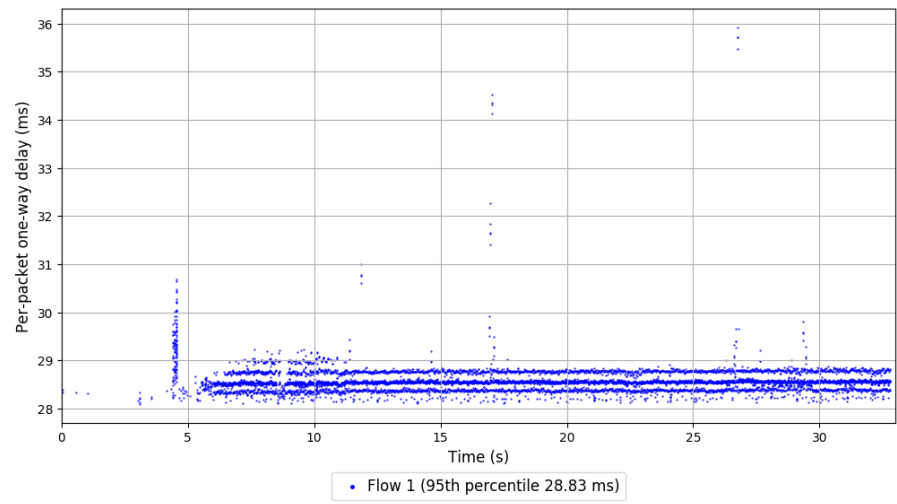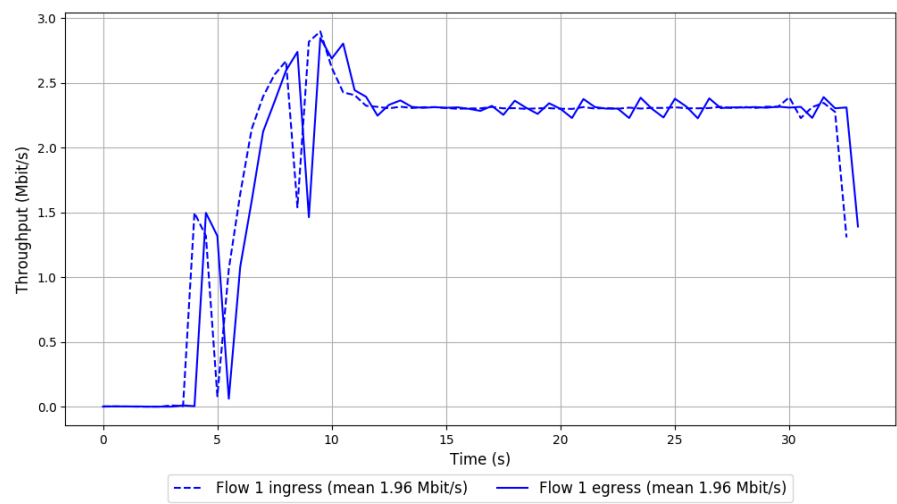
Run 8: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.96 Mbit/s) --- Flow 1 egress (mean 1.96 Mbit/s)

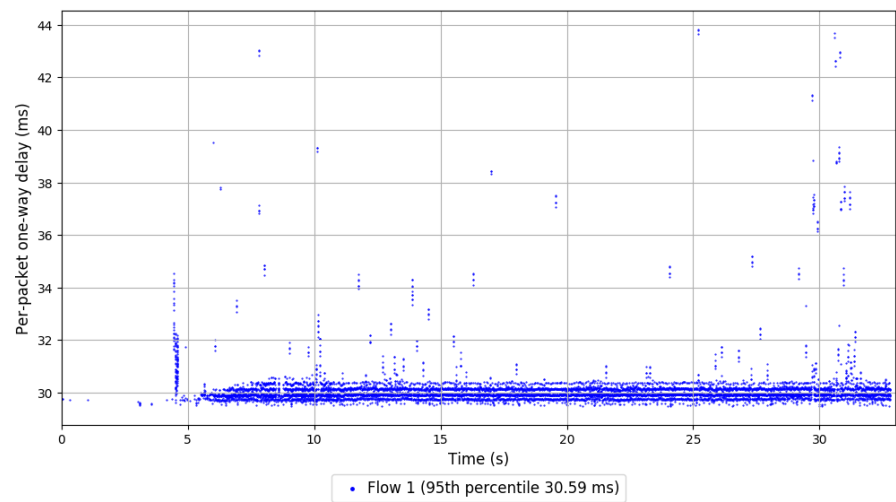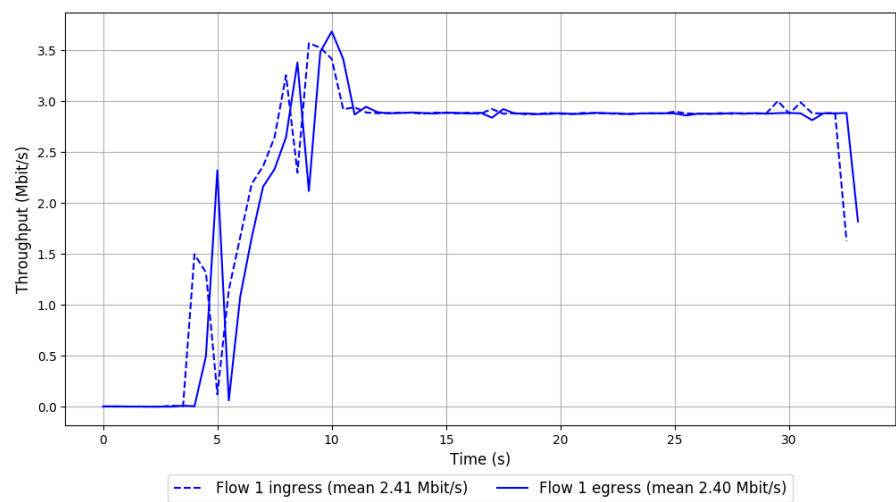

• Flow 1 (95th percentile 28.83 ms)

```
Run 9: Statistics of WebRTC media

Start at: 2018-05-30 11:30:00
End at: 2018-05-30 11:30:30
Local clock offset: 1.701 ms
Remote clock offset: -0.202 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 30.590 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 2.40 Mbit/s
95th percentile per-packet one-way delay: 30.590 ms
Loss rate: 0.24%
```

Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-05-30 11:50:55
End at: 2018-05-30 11:51:25
Local clock offset: 0.938 ms
Remote clock offset: 0.142 ms


# Below is generated by plot.py at 2018-05-30 12:18:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 30.564 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 30.564 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.97 Mbit/s) ----   Flow 1 egress (mean 1.97 Mbit/s) ——

• Flow 1 (95th percentile 30.56 ms)