Pantheon Report
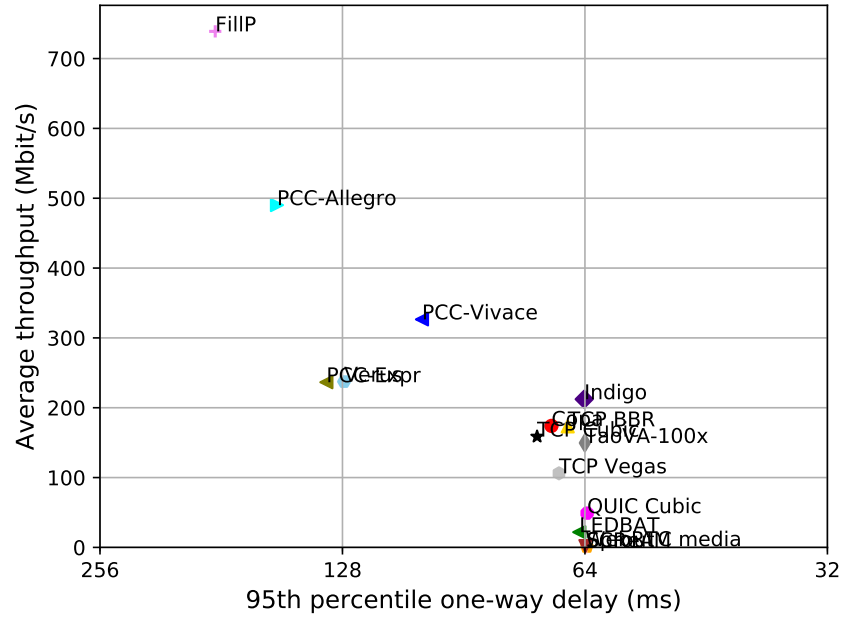
Generated at 2018-06-06 17:25:03 (UTC).

Data path: GCE Tokyo Ethernet (*remote*) →GCE Iowa Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

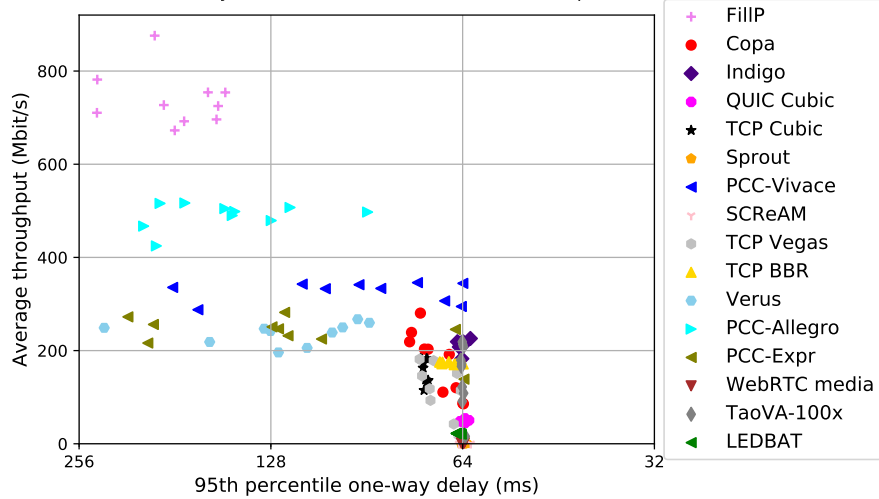NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

```
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 GCE Tokyo to GCE Iowa, 10 runs of 30s each per scheme
(mean of all runs by scheme)

test from GCE Tokyo to GCE Iowa, 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	173.33	67.22	0.43
Copa	10	174.01	70.43	0.34
TCP Cubic	10	158.69	73.38	0.46
FillP	10	738.94	184.15	4.46
Indigo	10	212.20	64.14	0.44
LEDBAT	10	21.82	65.05	0.85
PCC-Allegro	10	490.14	154.36	1.33
PCC-Expr	10	236.52	134.03	1.51
QUIC Cubic	9	49.08	63.60	0.71
SCReAM	10	0.22	63.83	0.42
Sprout	10	0.85	63.66	0.45
TaoVA-100x	10	149.56	64.02	0.42
TCP Vegas	10	106.06	68.94	0.36
Verus	10	237.39	127.40	1.39
PCC-Vivace	10	326.51	101.98	0.54
WebRTC media	10	1.84	63.92	0.51

```
Run 1: Statistics of TCP BBR

Start at: 2018-06-06 12:29:13
End at: 2018-06-06 12:29:43
Local clock offset: -0.059 ms
Remote clock offset: -0.168 ms


# Below is generated by plot.py at 2018-06-06 16:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.38 Mbit/s
95th percentile per-packet one-way delay: 67.270 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 176.38 Mbit/s
95th percentile per-packet one-way delay: 67.270 ms
Loss rate: 0.33%
```
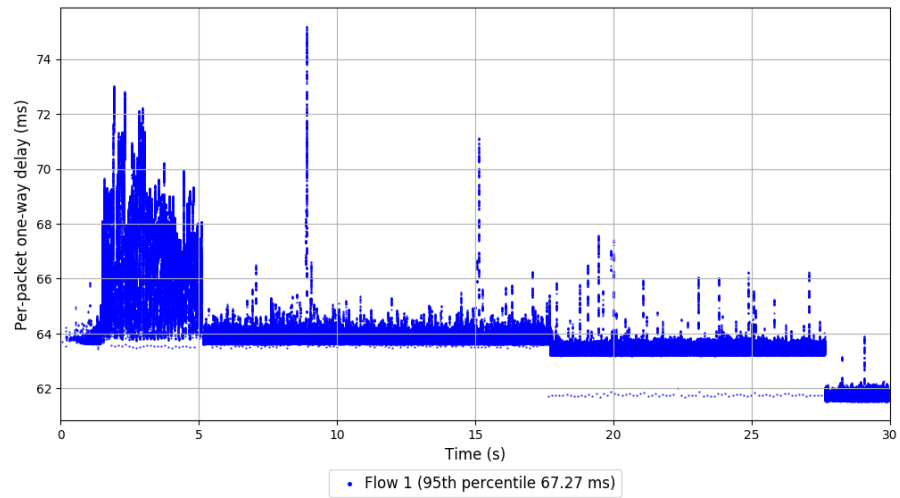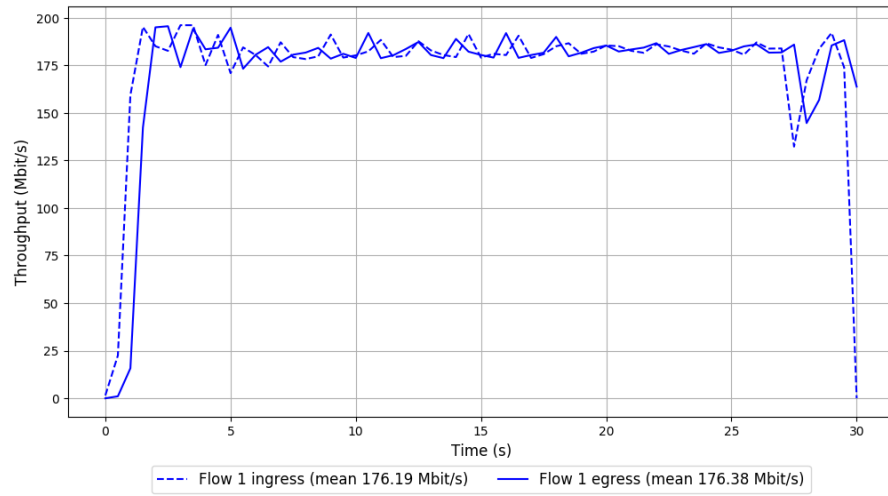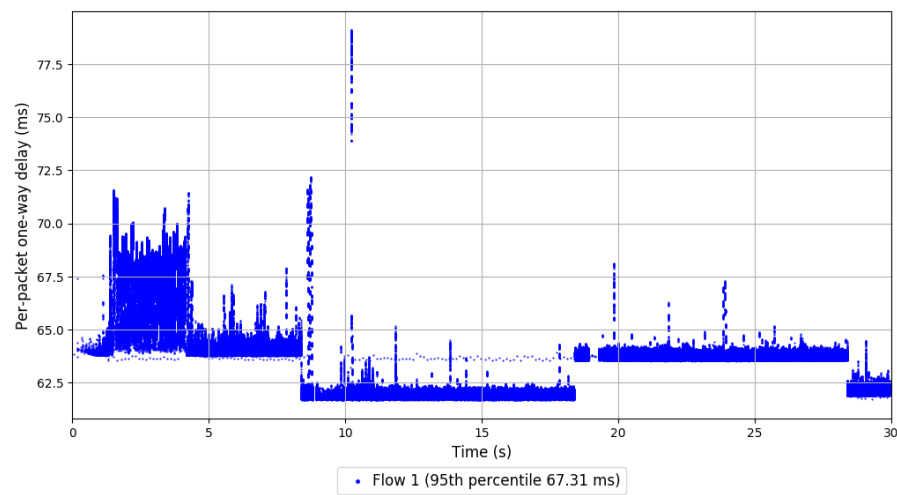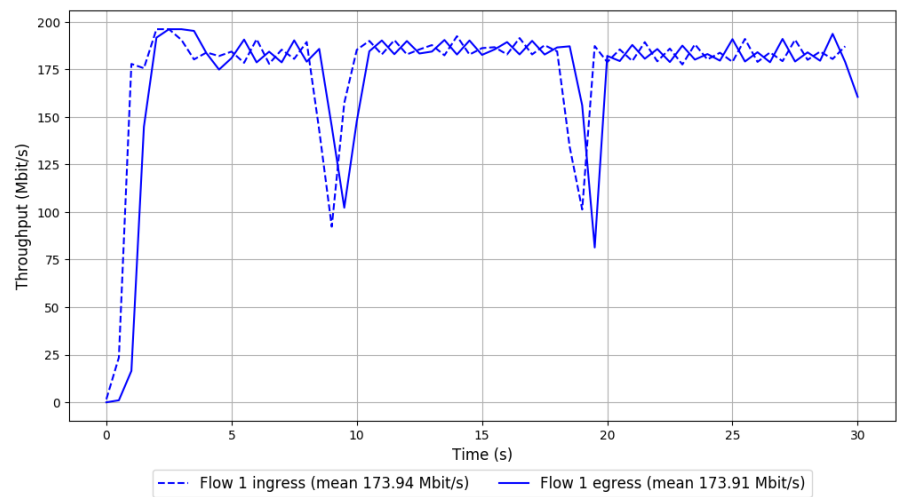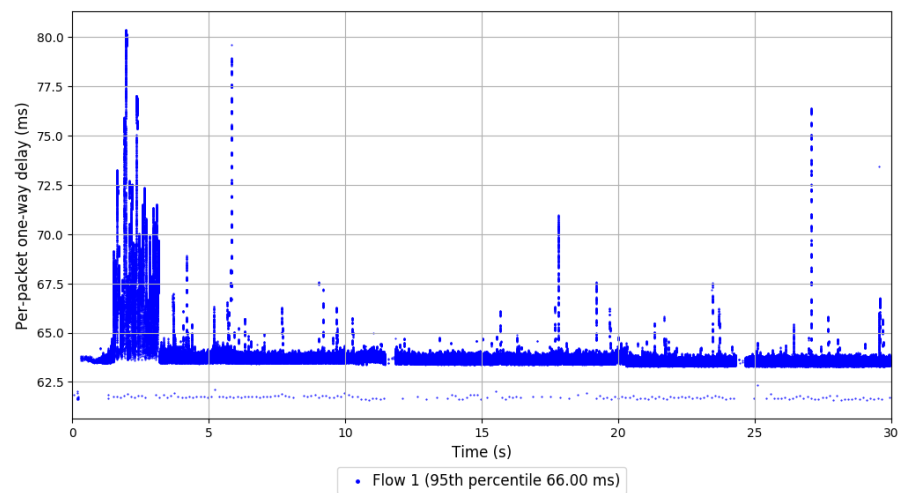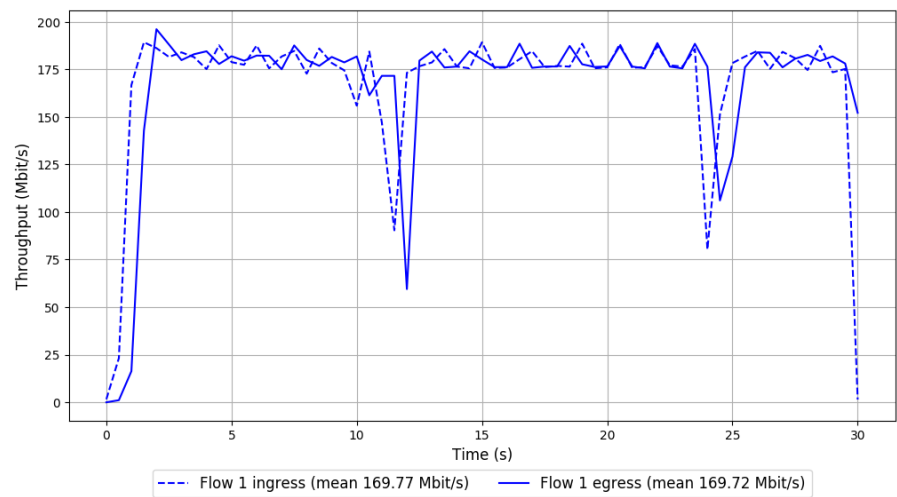
Run 1: Report of TCP BBR — Data Link

Flow 1 ingress (mean 176.19 Mbit/s) --- Flow 1 egress (mean 176.38 Mbit/s) ——

Flow 1 (95th percentile 67.27 ms)

```
Run 2: Statistics of TCP BBR

Start at: 2018-06-06 12:49:42
End at: 2018-06-06 12:50:12
Local clock offset: 0.016 ms
Remote clock offset: -0.294 ms


# Below is generated by plot.py at 2018-06-06 16:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.91 Mbit/s
95th percentile per-packet one-way delay: 67.314 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 173.91 Mbit/s
95th percentile per-packet one-way delay: 67.314 ms
Loss rate: 0.44%
```
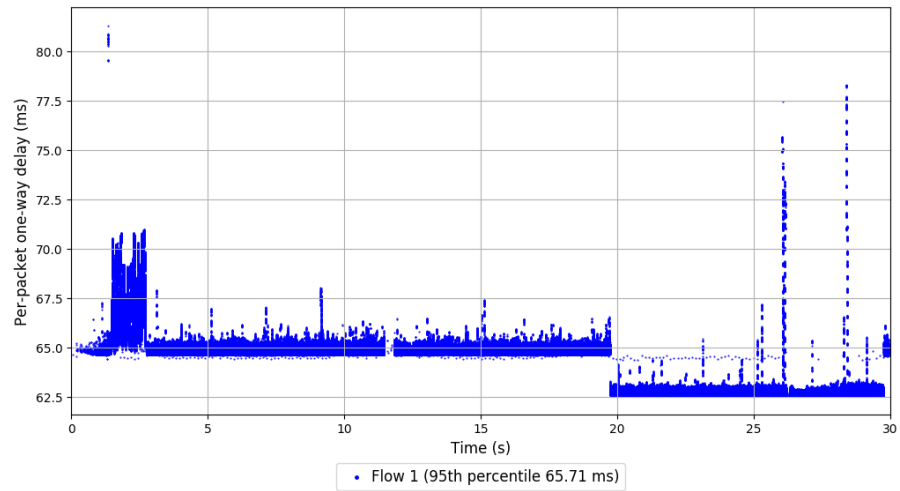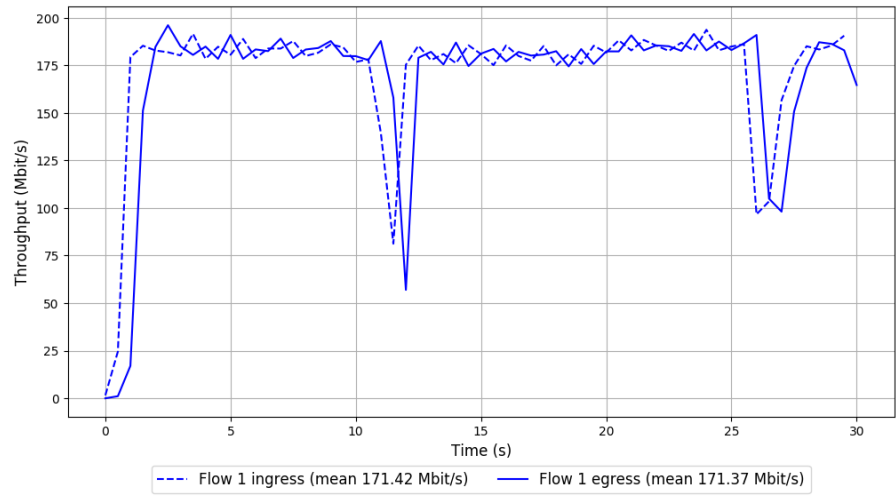
Run 2: Report of TCP BBR — Data Link

Flow 1 ingress (mean 173.94 Mbit/s)   Flow 1 egress (mean 173.91 Mbit/s)

Flow 1 (95th percentile 67.31 ms)

```
Run 3: Statistics of TCP BBR

Start at: 2018-06-06 13:10:10
End at: 2018-06-06 13:10:40
Local clock offset: -0.019 ms
Remote clock offset: -0.115 ms


# Below is generated by plot.py at 2018-06-06 16:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.72 Mbit/s
95th percentile per-packet one-way delay: 65.995 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 169.72 Mbit/s
95th percentile per-packet one-way delay: 65.995 ms
Loss rate: 0.44%
```

Run 3: Report of TCP BBR — Data Link

```
Run 4: Statistics of TCP BBR

Start at: 2018-06-06 13:30:51
End at: 2018-06-06 13:31:21
Local clock offset: 0.081 ms
Remote clock offset: -1.022 ms


# Below is generated by plot.py at 2018-06-06 16:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.37 Mbit/s
95th percentile per-packet one-way delay: 65.710 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 171.37 Mbit/s
95th percentile per-packet one-way delay: 65.710 ms
Loss rate: 0.46%
```
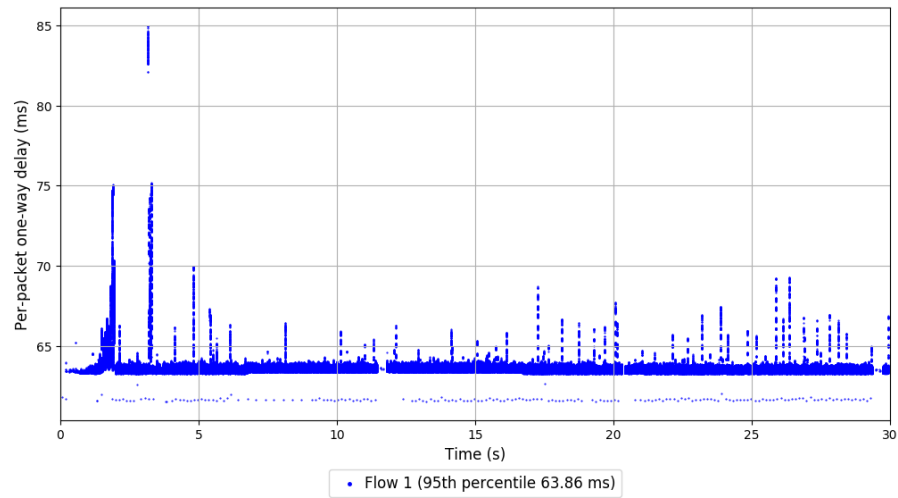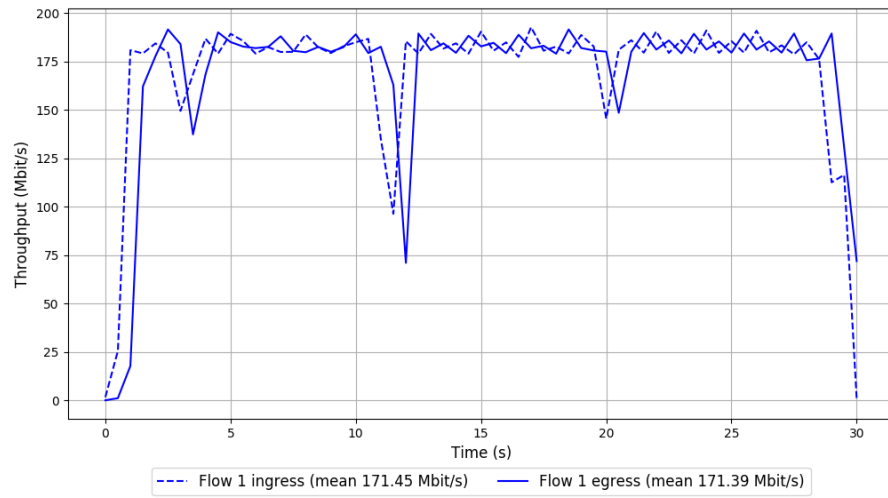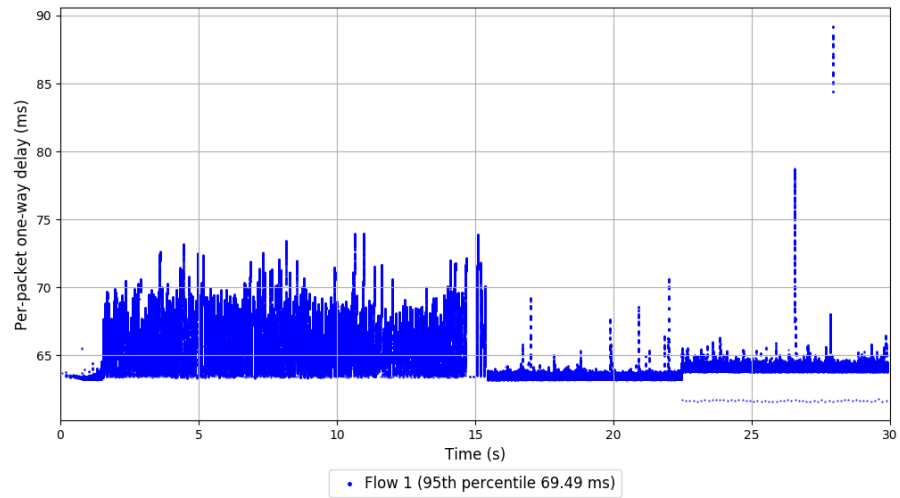
Run 4: Report of TCP BBR — Data Link

```
Run 5: Statistics of TCP BBR

Start at: 2018-06-06 13:51:14
End at: 2018-06-06 13:51:44
Local clock offset: 0.119 ms
Remote clock offset: -0.031 ms


# Below is generated by plot.py at 2018-06-06 16:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.39 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 171.39 Mbit/s
95th percentile per-packet one-way delay: 63.859 ms
Loss rate: 0.46%
```

Run 5: Report of TCP BBR — Data Link

Flow 1 ingress (mean 171.45 Mbit/s)   Flow 1 egress (mean 171.39 Mbit/s)
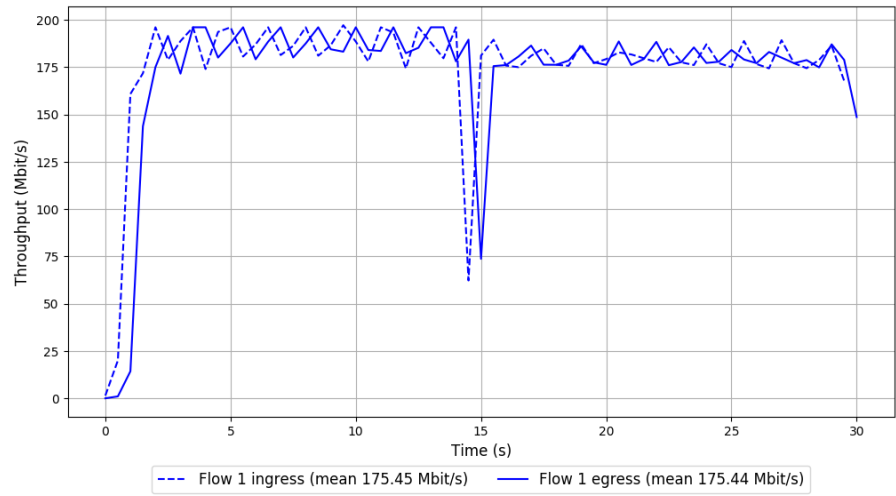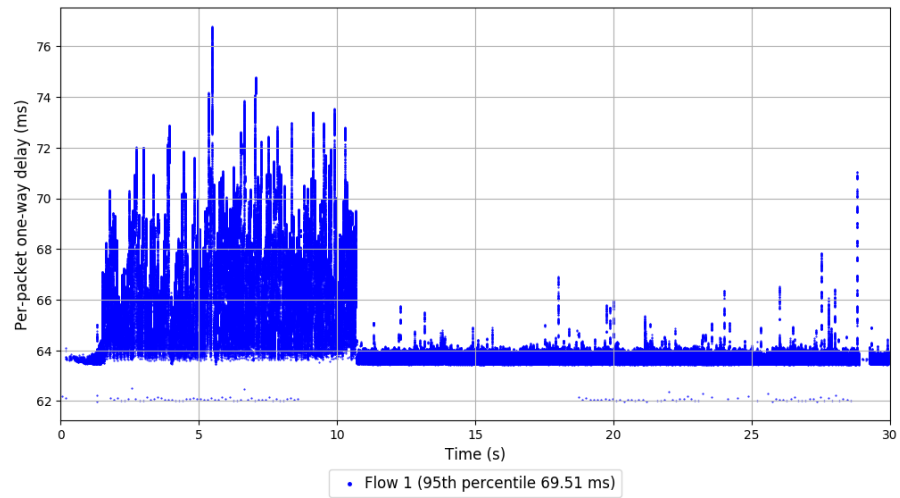

Flow 1 (95th percentile 63.86 ms)

```
Run 6: Statistics of TCP BBR

Start at: 2018-06-06 14:11:28
End at: 2018-06-06 14:11:58
Local clock offset: -0.051 ms
Remote clock offset: -0.102 ms


# Below is generated by plot.py at 2018-06-06 16:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.44 Mbit/s
95th percentile per-packet one-way delay: 69.493 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 175.44 Mbit/s
95th percentile per-packet one-way delay: 69.493 ms
Loss rate: 0.43%
```

Run 6: Report of TCP BBR — Data Link

Flow 1 ingress (mean 175.45 Mbit/s)   Flow 1 egress (mean 175.44 Mbit/s)
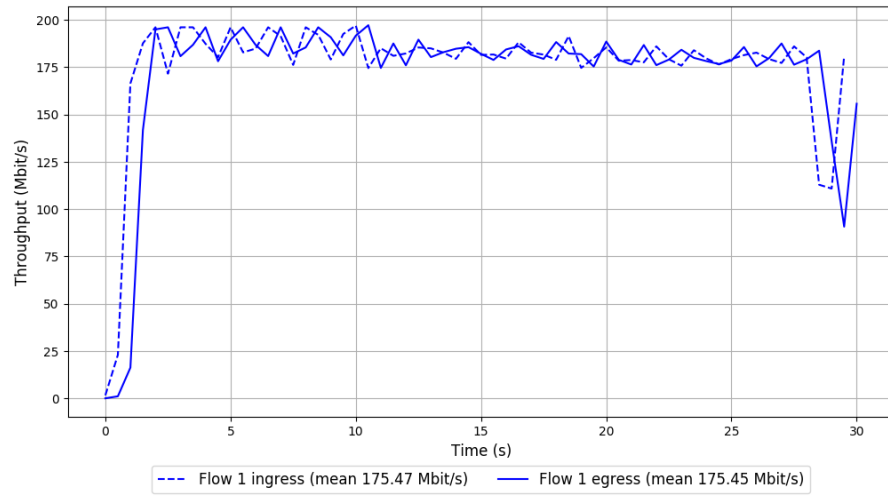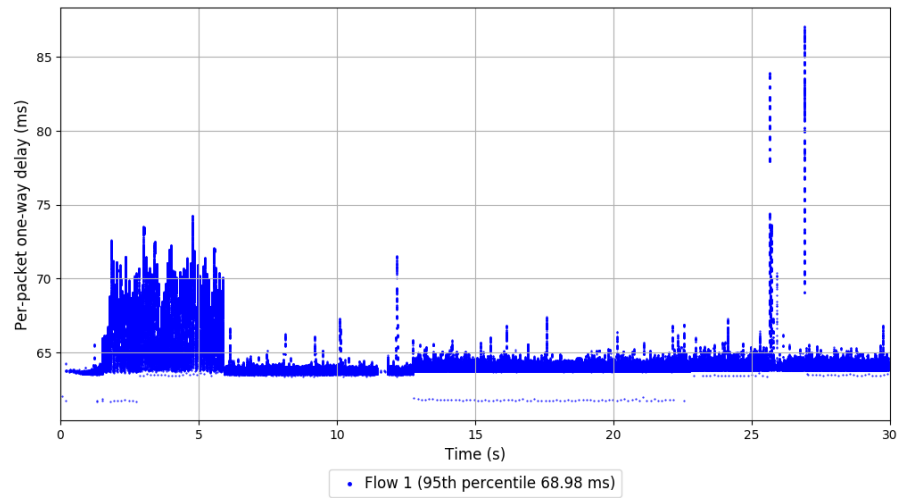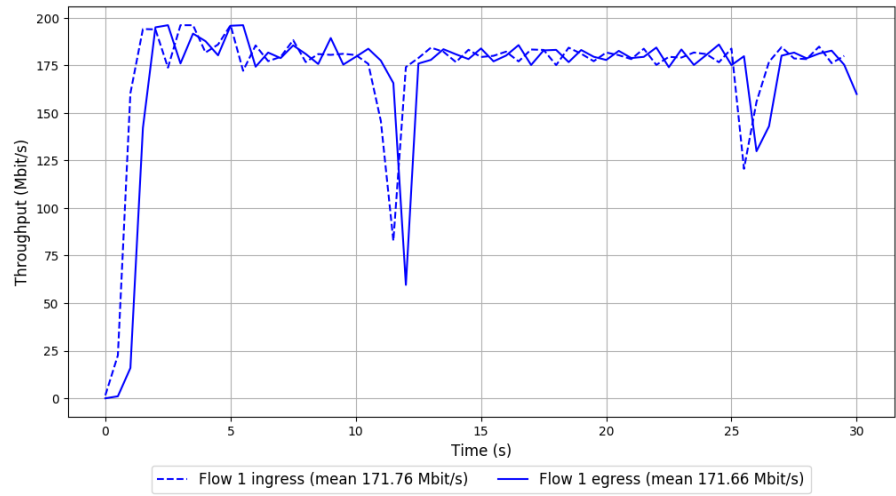

Flow 1 (95th percentile 69.49 ms)

```
Run 7: Statistics of TCP BBR

Start at: 2018-06-06 14:31:52
End at: 2018-06-06 14:32:22
Local clock offset: -0.057 ms
Remote clock offset: -0.118 ms


# Below is generated by plot.py at 2018-06-06 16:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.45 Mbit/s
95th percentile per-packet one-way delay: 69.512 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 175.45 Mbit/s
95th percentile per-packet one-way delay: 69.512 ms
Loss rate: 0.43%
```
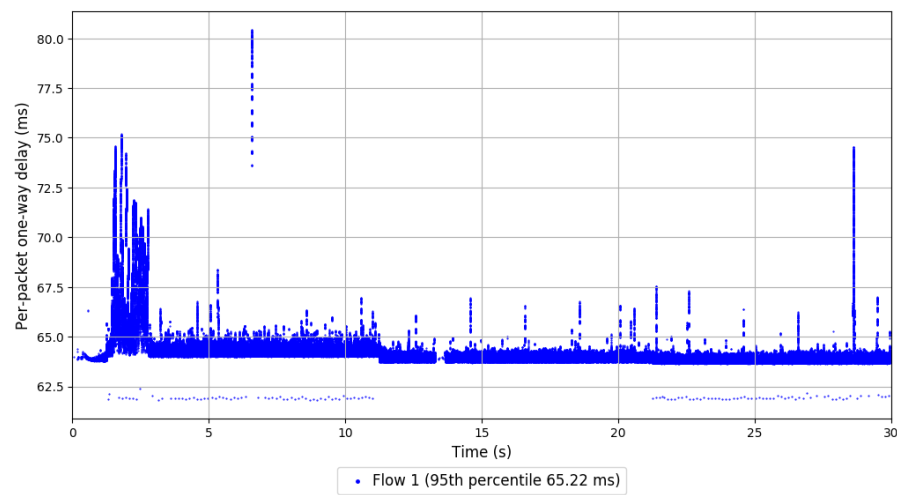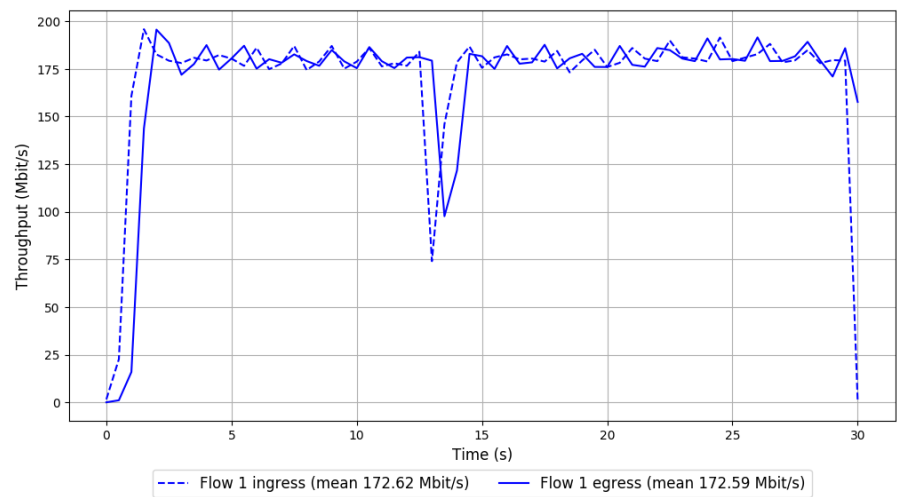
Run 7: Report of TCP BBR — Data Link

Flow 1 ingress (mean 175.47 Mbit/s) ---- Flow 1 egress (mean 175.45 Mbit/s)

Flow 1 (95th percentile 69.51 ms)

```
Run 8: Statistics of TCP BBR

Start at: 2018-06-06 14:52:18
End at: 2018-06-06 14:52:48
Local clock offset: -0.028 ms
Remote clock offset: -0.203 ms


# Below is generated by plot.py at 2018-06-06 16:03:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.66 Mbit/s
95th percentile per-packet one-way delay: 68.983 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 171.66 Mbit/s
95th percentile per-packet one-way delay: 68.983 ms
Loss rate: 0.47%
```

Run 8: Report of TCP BBR — Data Link

Flow 1 ingress (mean 171.76 Mbit/s) --- Flow 1 egress (mean 171.66 Mbit/s)

Flow 1 (95th percentile 68.98 ms)

```
Run 9: Statistics of TCP BBR

Start at: 2018-06-06 15:12:59
End at: 2018-06-06 15:13:29
Local clock offset: -0.029 ms
Remote clock offset: -0.365 ms


# Below is generated by plot.py at 2018-06-06 16:06:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.59 Mbit/s
95th percentile per-packet one-way delay: 65.222 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 172.59 Mbit/s
95th percentile per-packet one-way delay: 65.222 ms
Loss rate: 0.44%
```
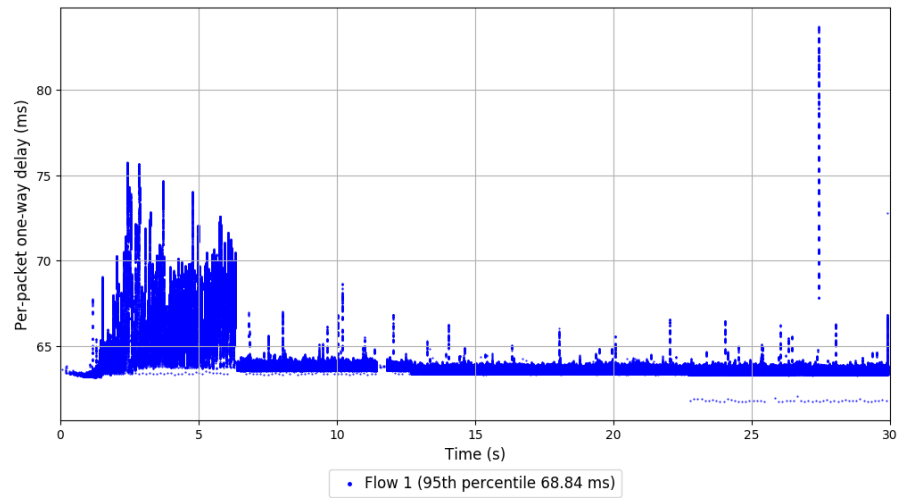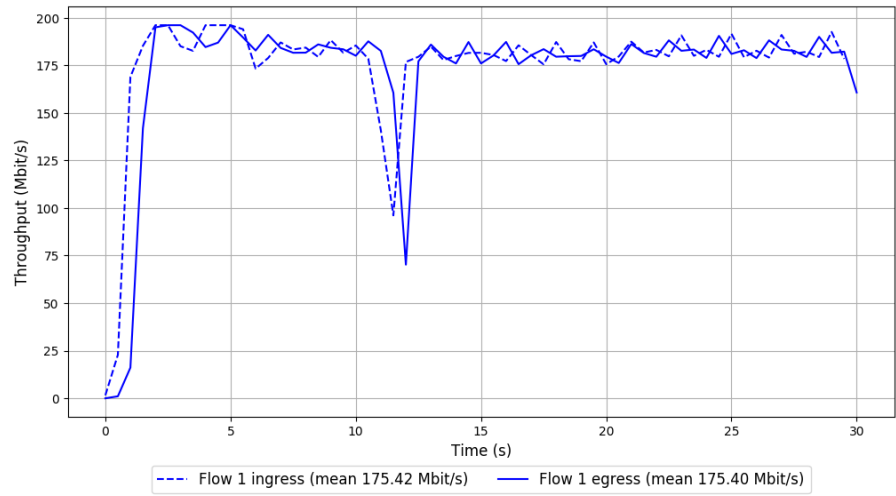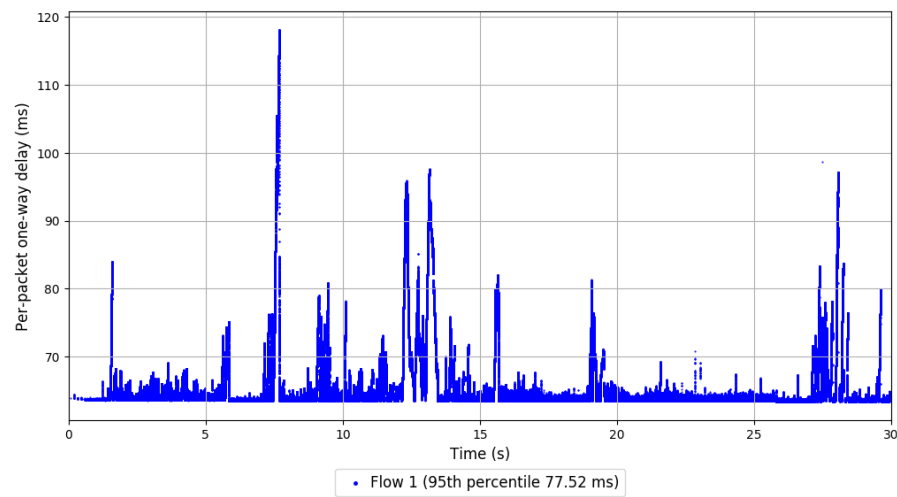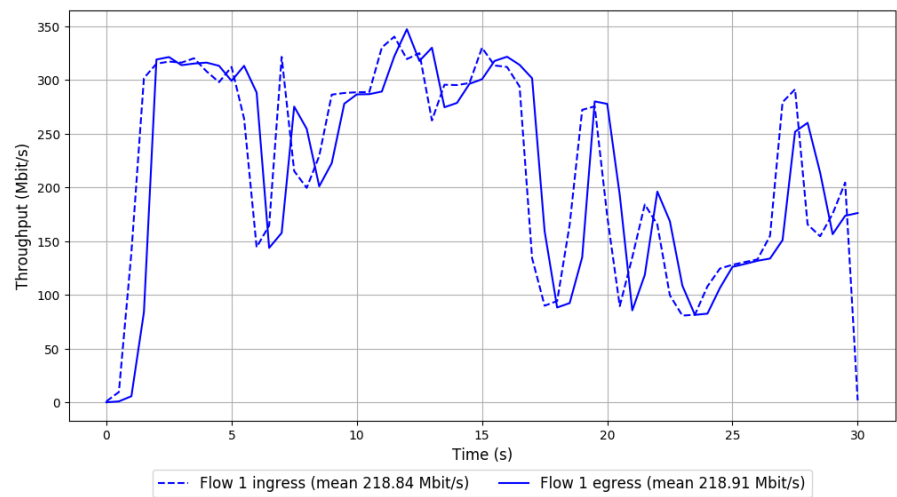
Run 9: Report of TCP BBR — Data Link

Flow 1 ingress (mean 172.62 Mbit/s)   Flow 1 egress (mean 172.59 Mbit/s)

Flow 1 (95th percentile 65.22 ms)

```
Run 10: Statistics of TCP BBR

Start at: 2018-06-06 15:33:38
End at: 2018-06-06 15:34:08
Local clock offset: -0.036 ms
Remote clock offset: -0.026 ms


# Below is generated by plot.py at 2018-06-06 16:06:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.40 Mbit/s
95th percentile per-packet one-way delay: 68.842 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 175.40 Mbit/s
95th percentile per-packet one-way delay: 68.842 ms
Loss rate: 0.44%
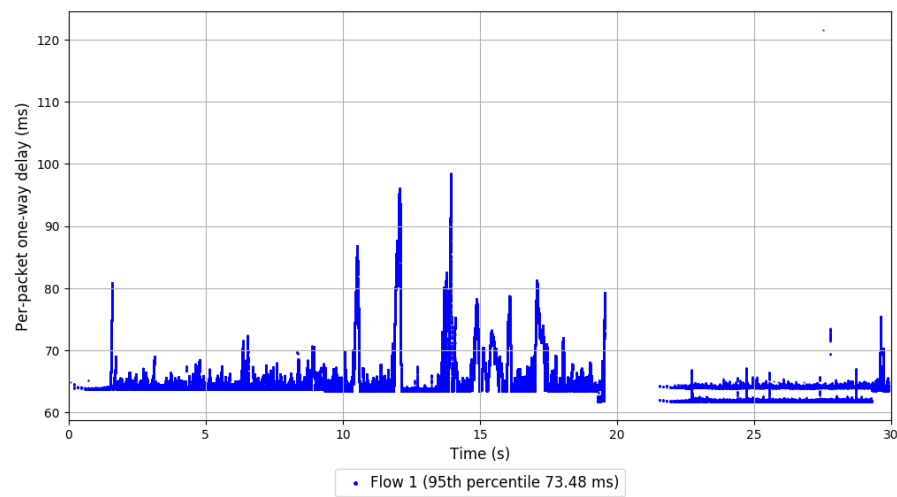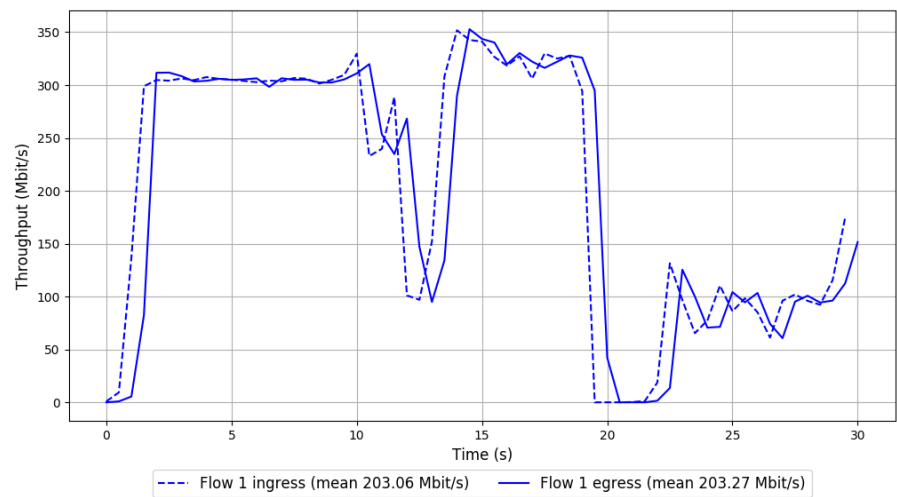```

# Run 10: Report of TCP BBR — Data Link

```
Run 1: Statistics of Copa

Start at: 2018-06-06 12:43:05
End at: 2018-06-06 12:43:35
Local clock offset: -0.025 ms
Remote clock offset: -0.308 ms


# Below is generated by plot.py at 2018-06-06 16:10:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.91 Mbit/s
95th percentile per-packet one-way delay: 77.524 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 218.91 Mbit/s
95th percentile per-packet one-way delay: 77.524 ms
Loss rate: 0.39%
```

Run 1: Report of Copa — Data Link

Flow 1 ingress (mean 218.84 Mbit/s)   Flow 1 egress (mean 218.91 Mbit/s)

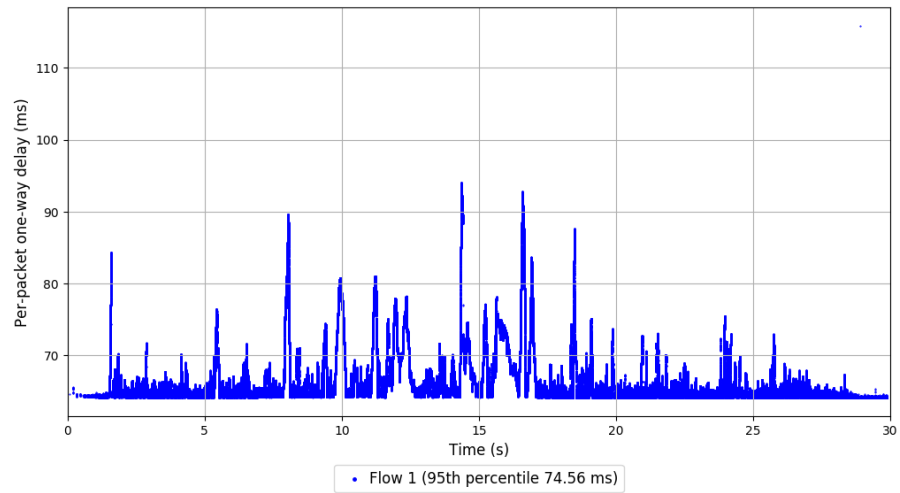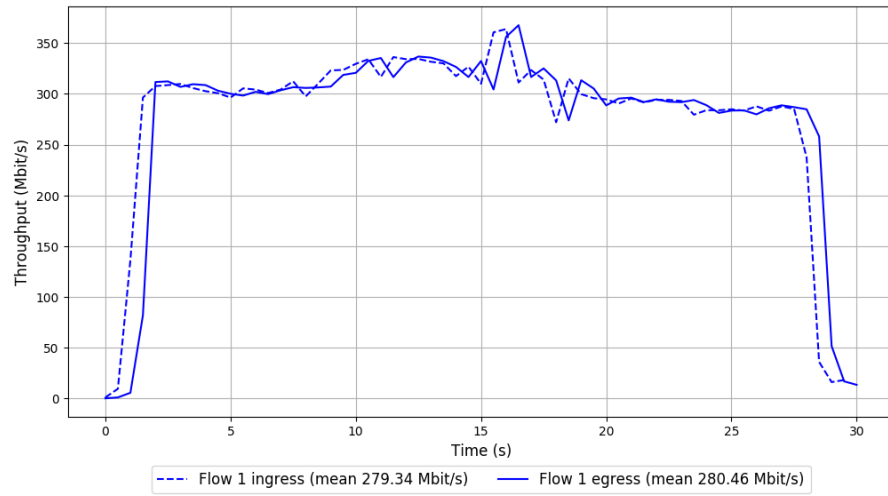Flow 1 (95th percentile 77.52 ms)

```
Run 2: Statistics of Copa

Start at: 2018-06-06 13:03:31
End at: 2018-06-06 13:04:01
Local clock offset: -0.014 ms
Remote clock offset: -0.312 ms


# Below is generated by plot.py at 2018-06-06 16:10:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.27 Mbit/s
95th percentile per-packet one-way delay: 73.480 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 203.27 Mbit/s
95th percentile per-packet one-way delay: 73.480 ms
Loss rate: 0.32%
```

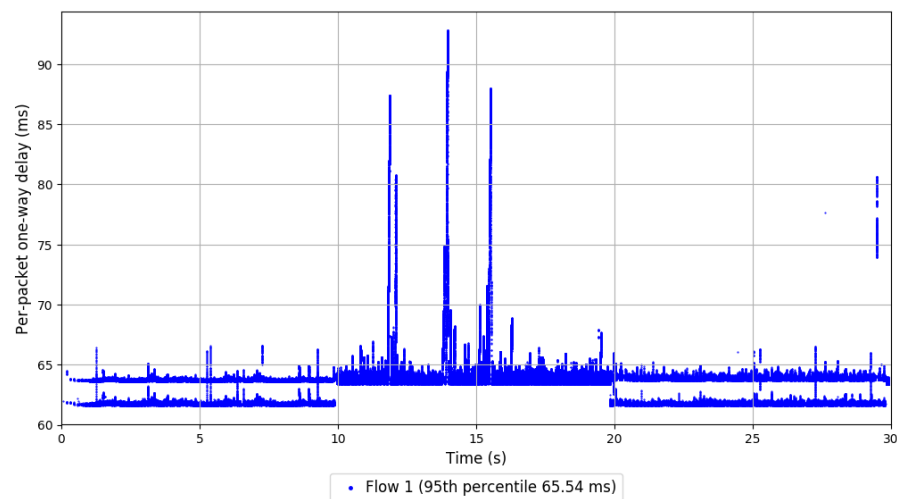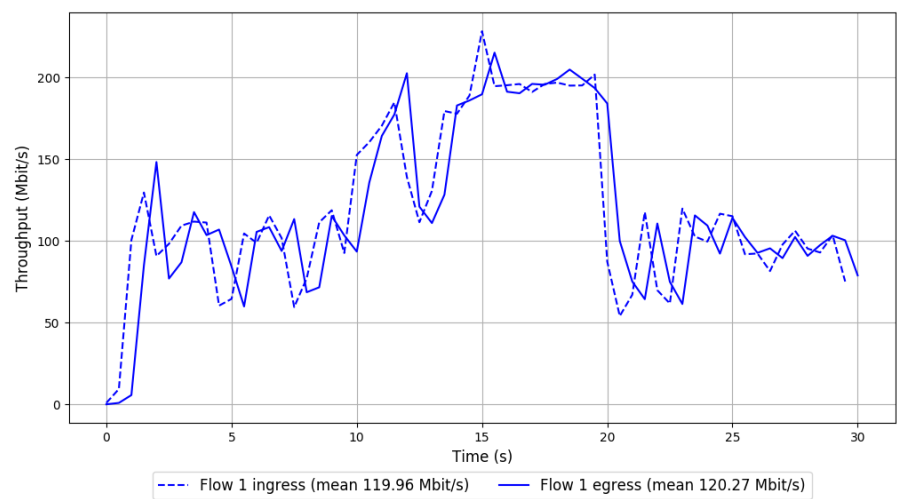Run 2: Report of Copa — Data Link

Flow 1 ingress (mean 203.06 Mbit/s)   Flow 1 egress (mean 203.27 Mbit/s)

Flow 1 (95th percentile 73.48 ms)

```
Run 3: Statistics of Copa

Start at: 2018-06-06 13:24:04
End at: 2018-06-06 13:24:34
Local clock offset: -0.048 ms
Remote clock offset: -0.976 ms


# Below is generated by plot.py at 2018-06-06 16:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.46 Mbit/s
95th percentile per-packet one-way delay: 74.556 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 280.46 Mbit/s
95th percentile per-packet one-way delay: 74.556 ms
Loss rate: 0.03%
```

Run 3: Report of Copa — Data Link

```
Run 4: Statistics of Copa

Start at: 2018-06-06 13:44:41
End at: 2018-06-06 13:45:11
Local clock offset: 0.173 ms
Remote clock offset: -0.049 ms


# Below is generated by plot.py at 2018-06-06 16:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 120.27 Mbit/s
95th percentile per-packet one-way delay: 65.544 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 120.27 Mbit/s
95th percentile per-packet one-way delay: 65.544 ms
Loss rate: 0.17%
```
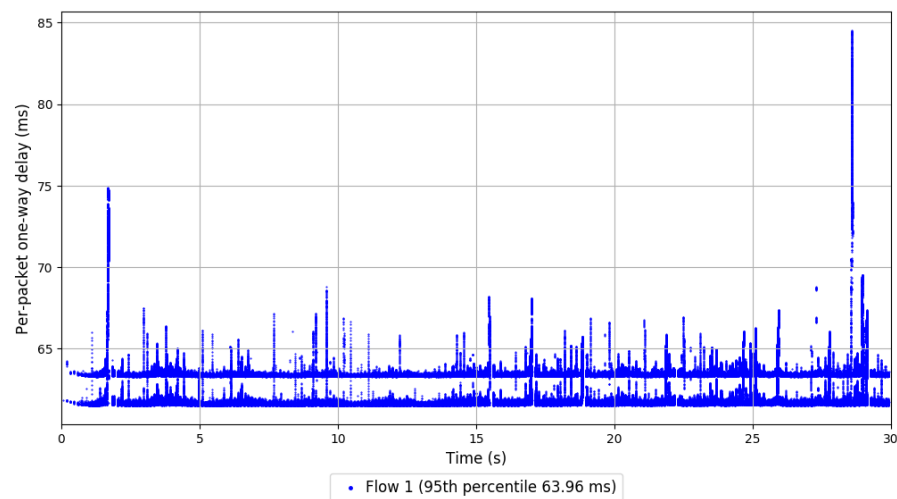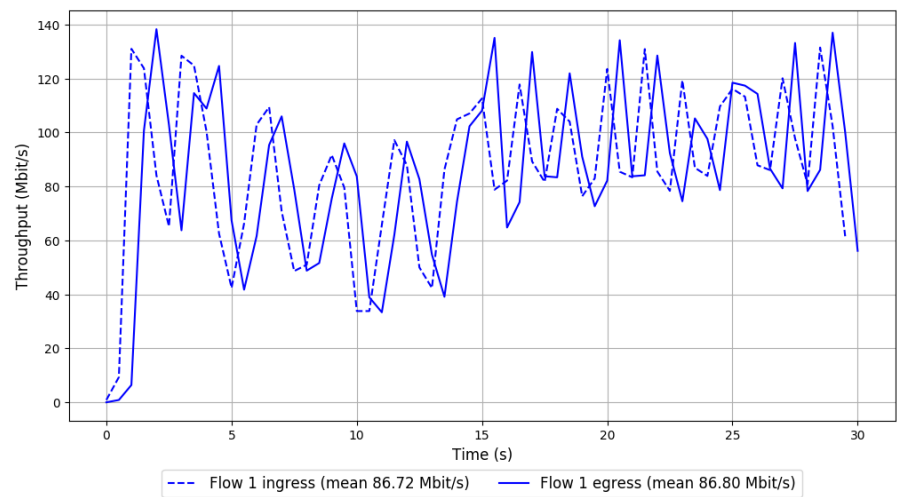
Run 4: Report of Copa — Data Link

Flow 1 ingress (mean 119.96 Mbit/s)   Flow 1 egress (mean 120.27 Mbit/s)

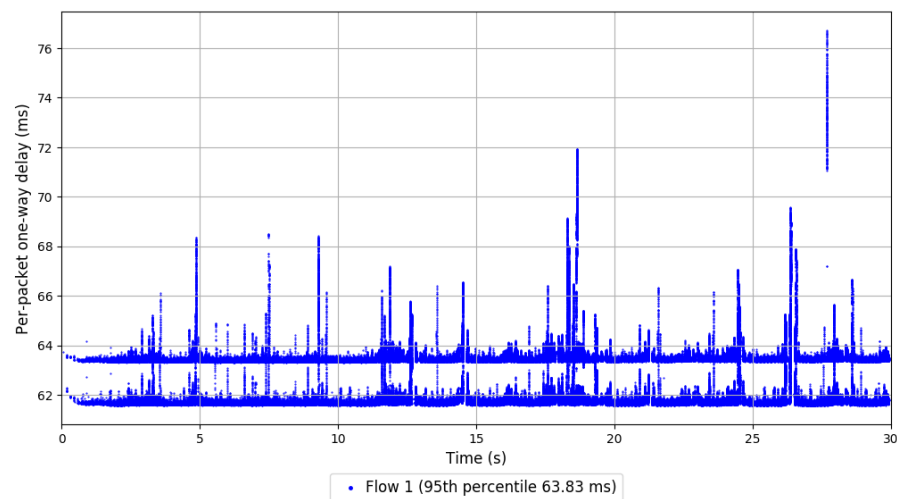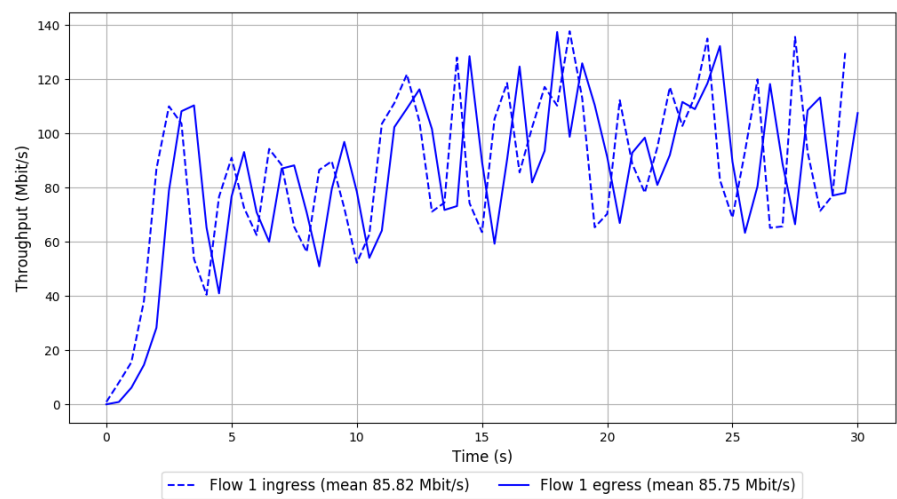Flow 1 (95th percentile 65.54 ms)

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```
Run 5: Statistics of Copa

Start at: 2018-06-06 14:04:57
End at: 2018-06-06 14:05:27
Local clock offset: 0.014 ms
Remote clock offset: -0.1 ms


# Below is generated by plot.py at 2018-06-06 16:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 63.957 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 86.80 Mbit/s
95th percentile per-packet one-way delay: 63.957 ms
Loss rate: 0.32%
```

Run 5: Report of Copa — Data Link

Flow 1 ingress (mean 86.72 Mbit/s)   Flow 1 egress (mean 86.80 Mbit/s)

Flow 1 (95th percentile 63.96 ms)

```
Run 6: Statistics of Copa

Start at: 2018-06-06 14:25:20
End at: 2018-06-06 14:25:50
Local clock offset: -0.07 ms
Remote clock offset: -0.103 ms


# Below is generated by plot.py at 2018-06-06 16:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.75 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 85.75 Mbit/s
95th percentile per-packet one-way delay: 63.825 ms
Loss rate: 0.53%
```
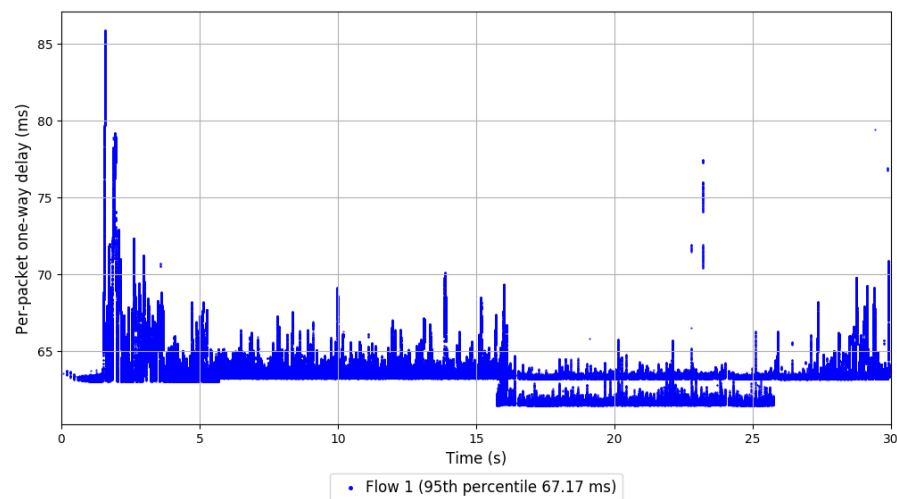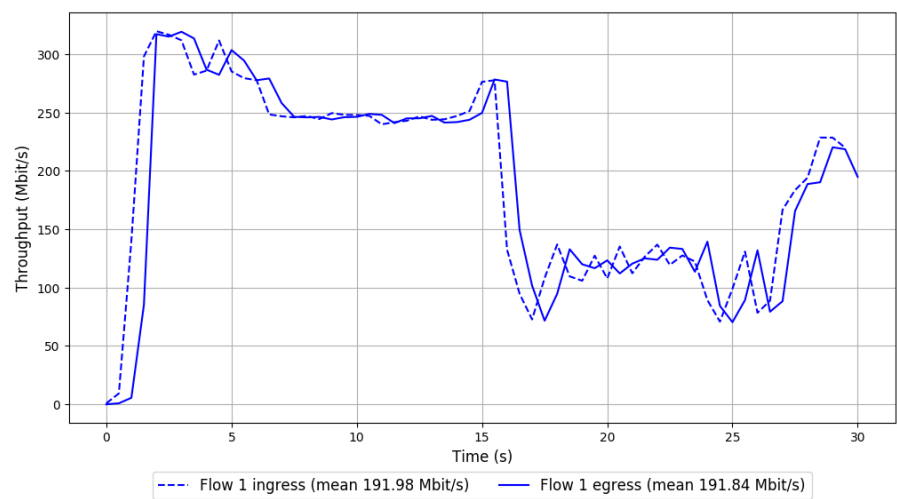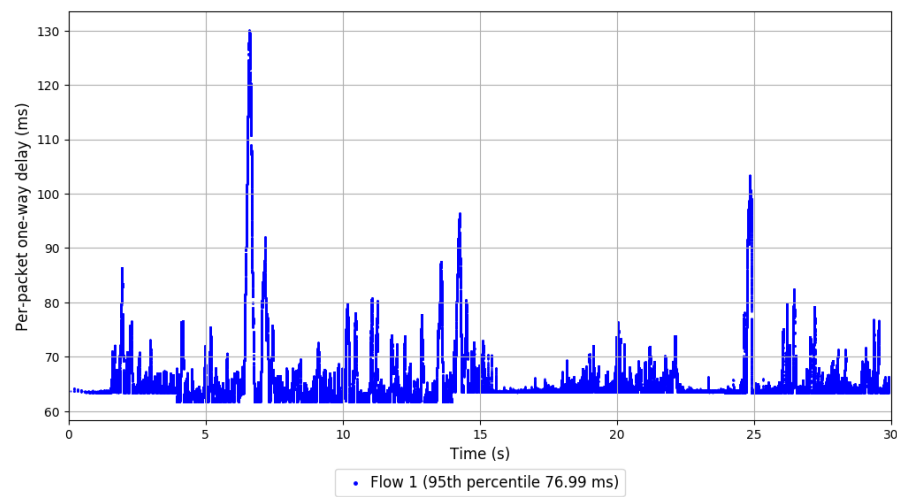
Run 6: Report of Copa — Data Link

Flow 1 ingress (mean 85.82 Mbit/s)   Flow 1 egress (mean 85.75 Mbit/s)

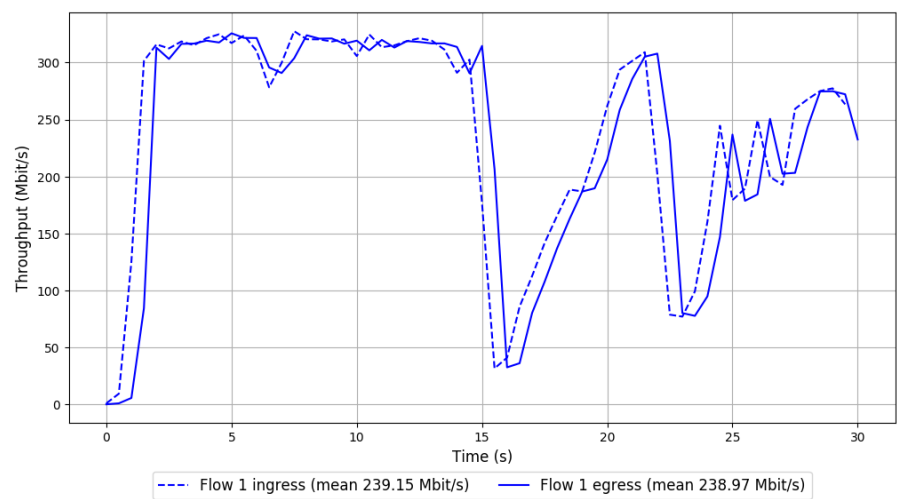Flow 1 (95th percentile 63.83 ms)

```
Run 7: Statistics of Copa

Start at: 2018-06-06 14:45:35
End at: 2018-06-06 14:46:05
Local clock offset: -0.035 ms
Remote clock offset: 0.079 ms


# Below is generated by plot.py at 2018-06-06 16:12:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.84 Mbit/s
95th percentile per-packet one-way delay: 67.171 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 191.84 Mbit/s
95th percentile per-packet one-way delay: 67.171 ms
Loss rate: 0.49%
```

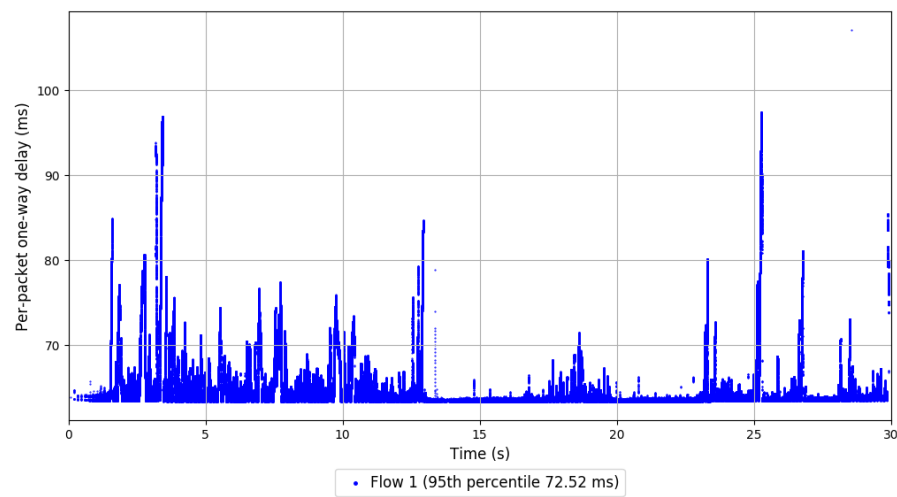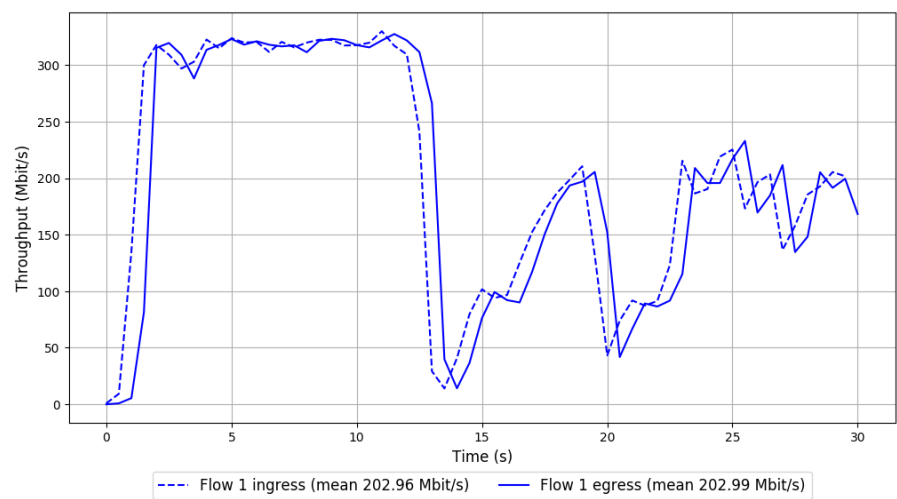Run 7: Report of Copa — Data Link

```
Run 8: Statistics of Copa

Start at: 2018-06-06 15:06:17
End at: 2018-06-06 15:06:47
Local clock offset: 0.016 ms
Remote clock offset: -0.307 ms


# Below is generated by plot.py at 2018-06-06 16:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.97 Mbit/s
95th percentile per-packet one-way delay: 76.994 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 238.97 Mbit/s
95th percentile per-packet one-way delay: 76.994 ms
Loss rate: 0.49%
```

Run 8: Report of Copa — Data Link

```
Run 9: Statistics of Copa

Start at: 2018-06-06 15:26:57
End at: 2018-06-06 15:27:27
Local clock offset: -0.011 ms
Remote clock offset: -0.113 ms


# Below is generated by plot.py at 2018-06-06 16:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.99 Mbit/s
95th percentile per-packet one-way delay: 72.515 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 202.99 Mbit/s
95th percentile per-packet one-way delay: 72.515 ms
Loss rate: 0.41%
```

Run 9: Report of Copa — Data Link

```
Run 10: Statistics of Copa

Start at: 2018-06-06 15:47:17
End at: 2018-06-06 15:47:47
Local clock offset: -0.1 ms
Remote clock offset: -0.093 ms


# Below is generated by plot.py at 2018-06-06 16:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.82 Mbit/s
95th percentile per-packet one-way delay: 68.728 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 110.82 Mbit/s
95th percentile per-packet one-way delay: 68.728 ms
Loss rate: 0.27%
```
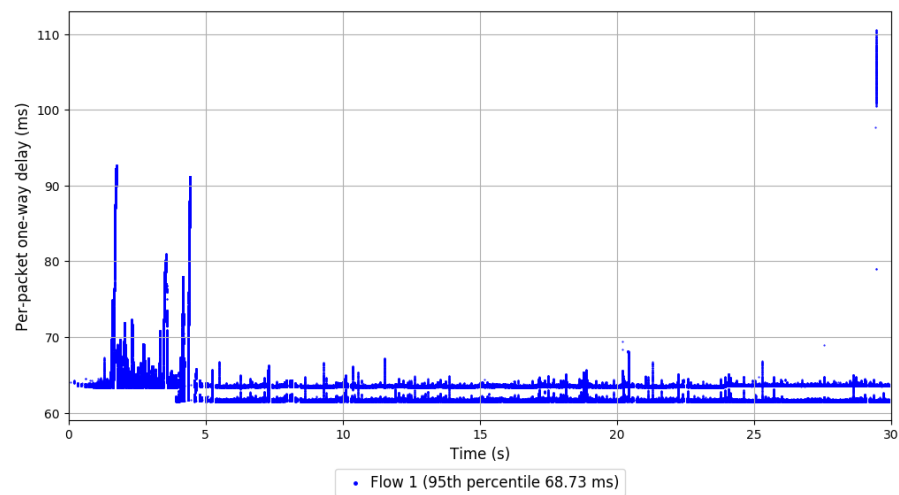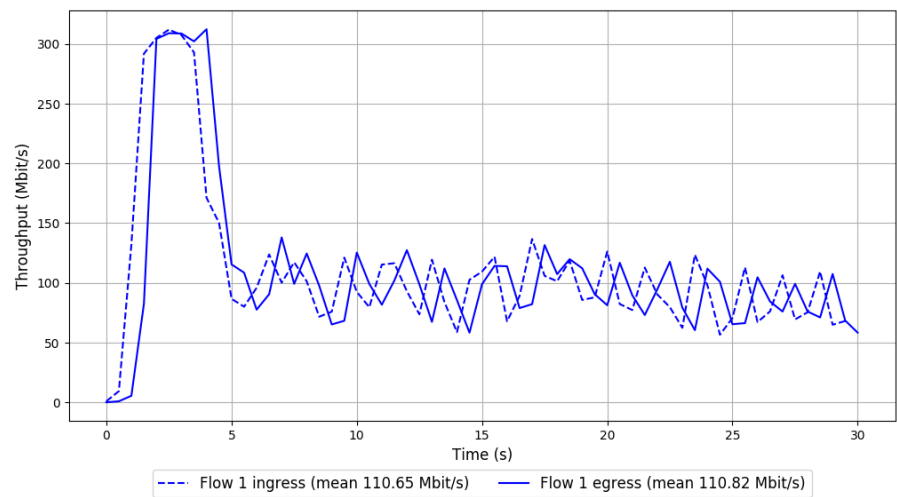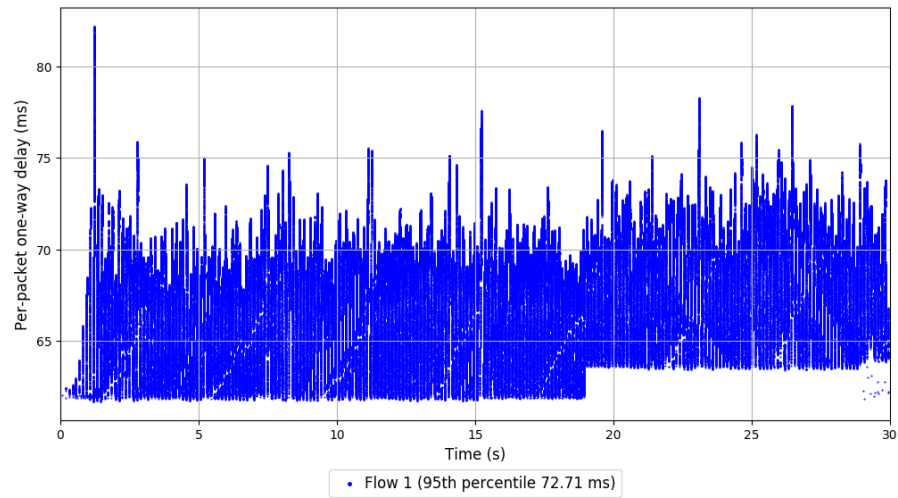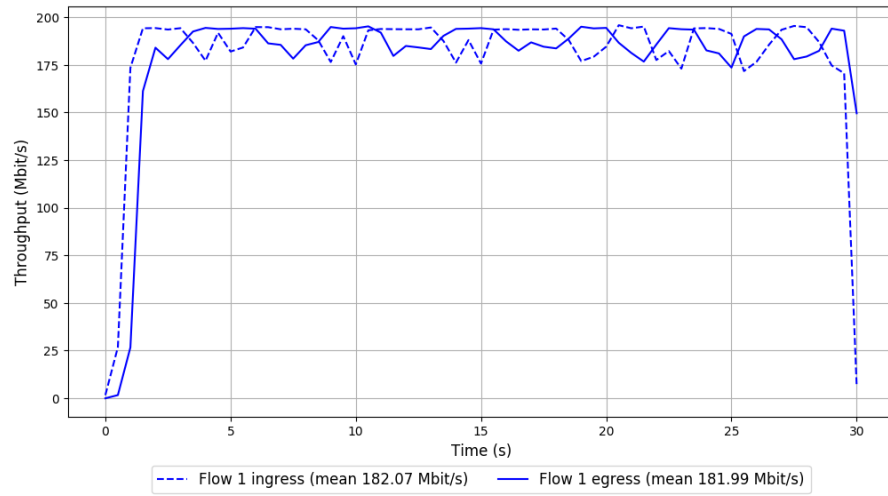
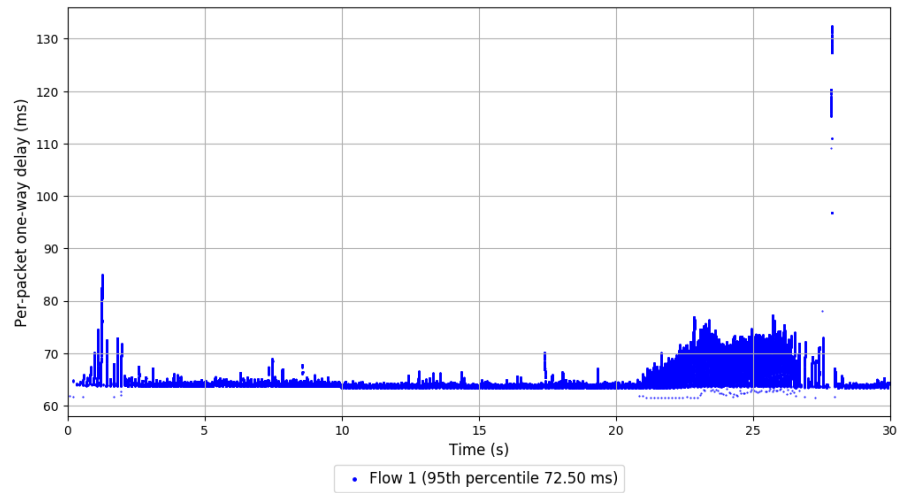Run 10: Report of Copa — Data Link

```
Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 12:26:41
End at: 2018-06-06 12:27:12
Local clock offset: -0.008 ms
Remote clock offset: -0.259 ms


# Below is generated by plot.py at 2018-06-06 16:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.99 Mbit/s
95th percentile per-packet one-way delay: 72.712 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 181.99 Mbit/s
95th percentile per-packet one-way delay: 72.712 ms
Loss rate: 0.46%
```

Run 1: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 182.07 Mbit/s) --- Flow 1 egress (mean 181.99 Mbit/s)
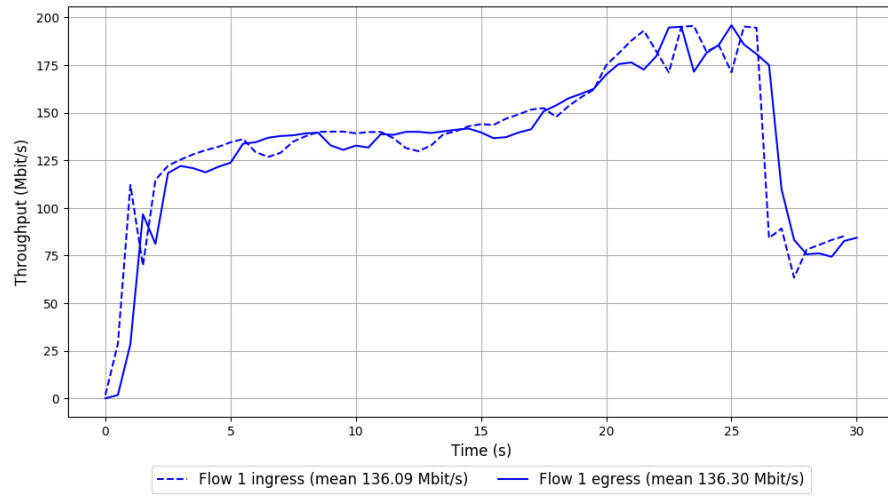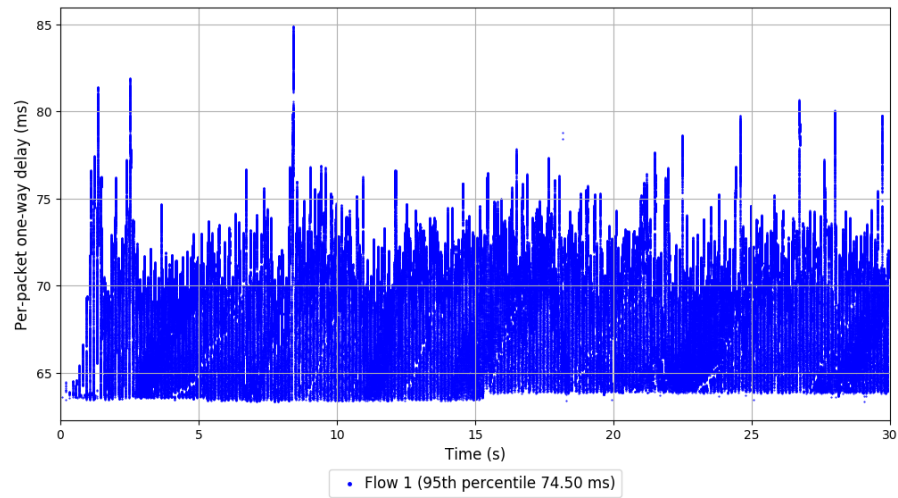

• Flow 1 (95th percentile 72.71 ms)

```
Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 12:47:11
End at: 2018-06-06 12:47:41
Local clock offset: 0.002 ms
Remote clock offset: -0.203 ms


# Below is generated by plot.py at 2018-06-06 16:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 136.30 Mbit/s
95th percentile per-packet one-way delay: 72.496 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 136.30 Mbit/s
95th percentile per-packet one-way delay: 72.496 ms
Loss rate: 0.26%
```

Run 2: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 136.09 Mbit/s)   Flow 1 egress (mean 136.30 Mbit/s)
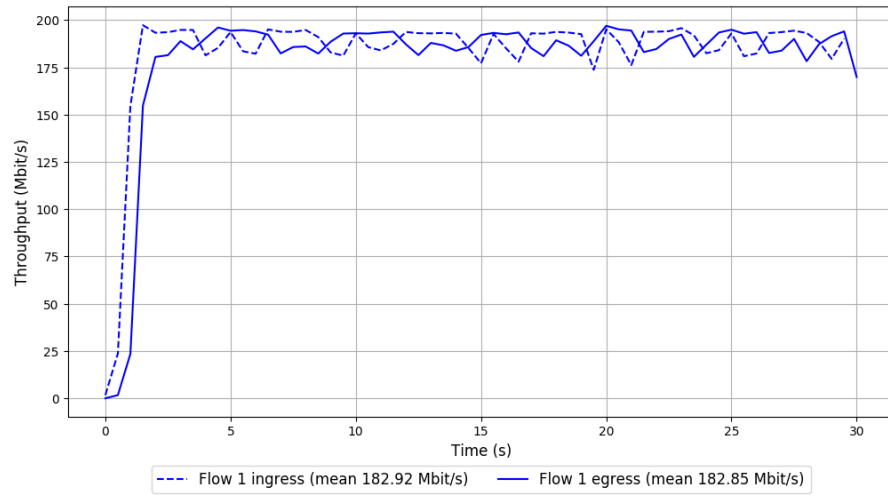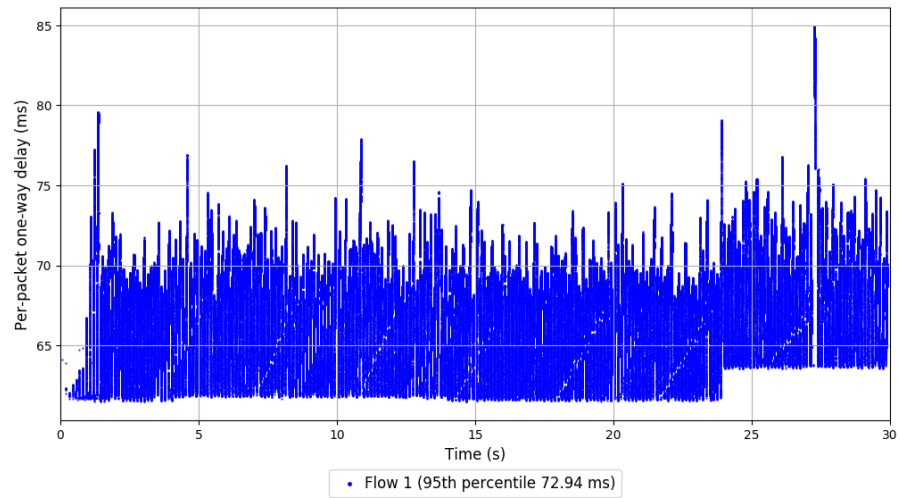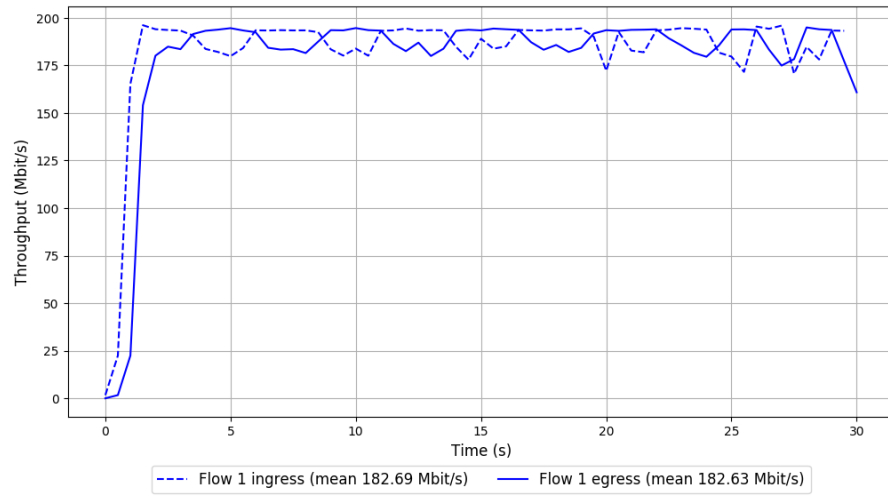

Flow 1 (95th percentile 72.50 ms)

```
Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 13:07:35
End at: 2018-06-06 13:08:05
Local clock offset: -0.015 ms
Remote clock offset: -0.112 ms


# Below is generated by plot.py at 2018-06-06 16:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.85 Mbit/s
95th percentile per-packet one-way delay: 74.499 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 182.85 Mbit/s
95th percentile per-packet one-way delay: 74.499 ms
Loss rate: 0.45%
```
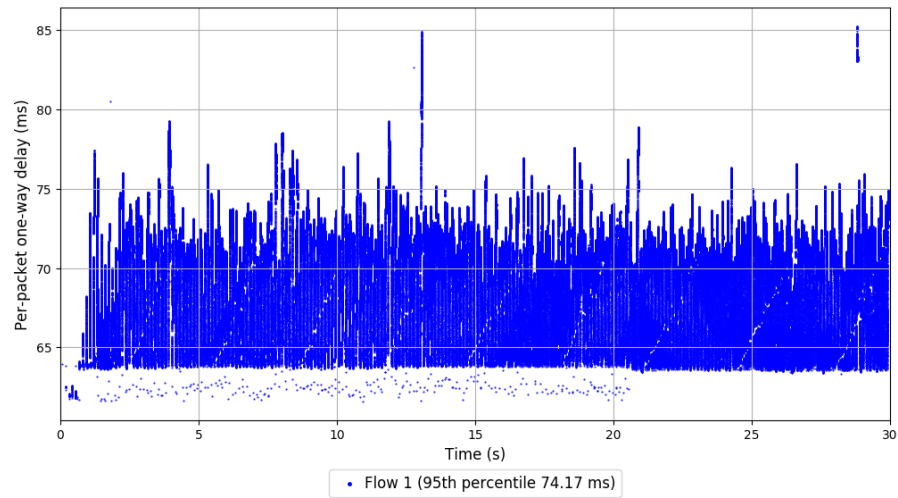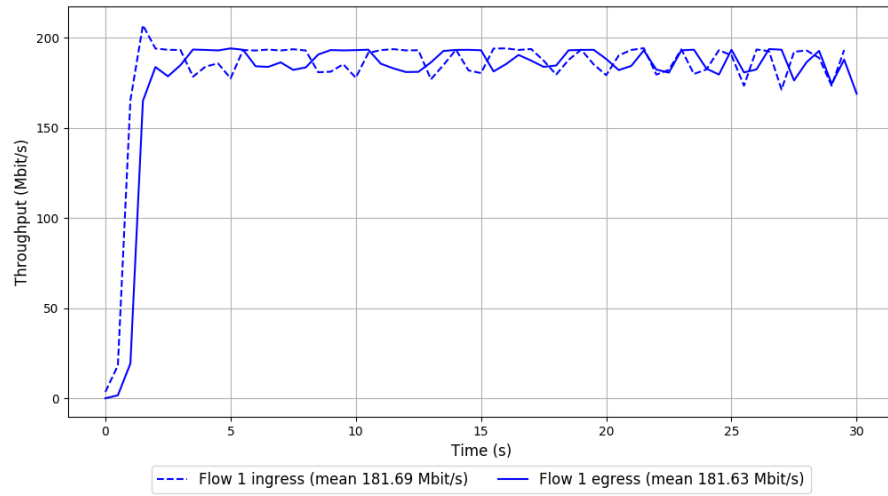
Run 3: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 182.92 Mbit/s)   Flow 1 egress (mean 182.85 Mbit/s)

Flow 1 (95th percentile 74.50 ms)

```
Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 13:28:17
End at: 2018-06-06 13:28:47
Local clock offset: 0.031 ms
Remote clock offset: -0.144 ms


# Below is generated by plot.py at 2018-06-06 16:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.63 Mbit/s
95th percentile per-packet one-way delay: 72.937 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 182.63 Mbit/s
95th percentile per-packet one-way delay: 72.937 ms
Loss rate: 0.44%
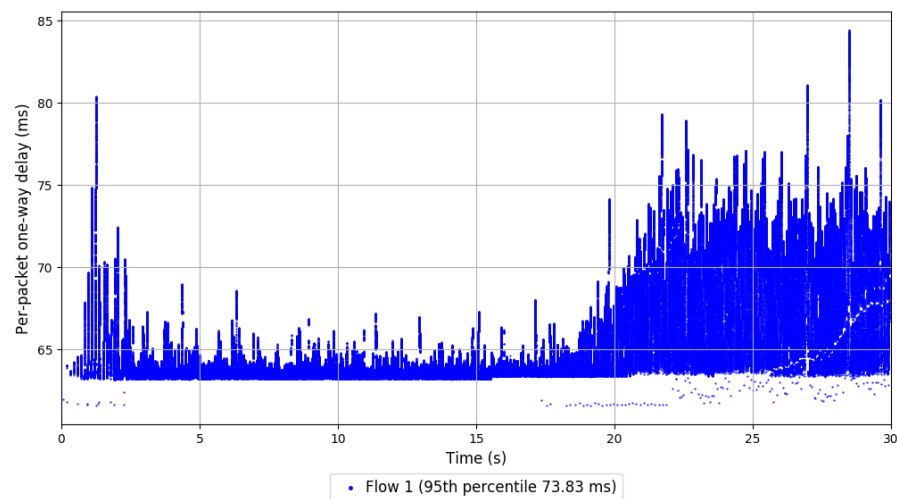```
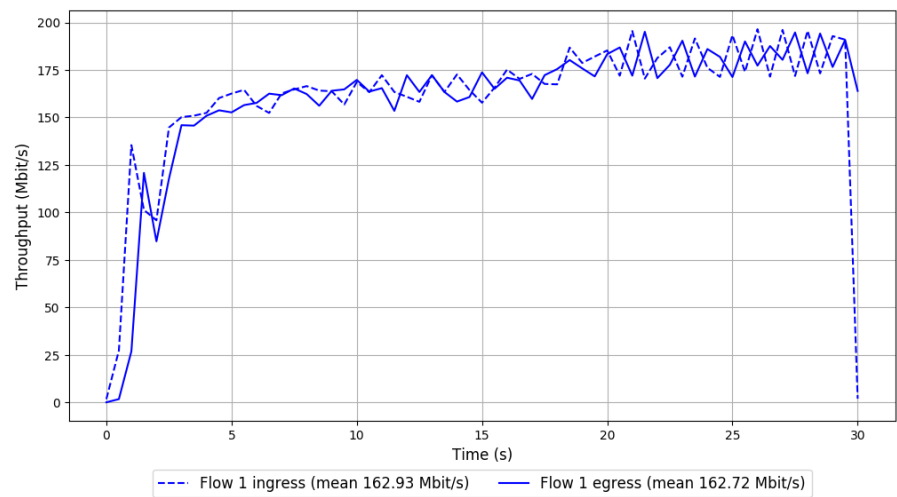
# Run 4: Report of TCP Cubic — Data Link



Flow 1 ingress (mean 182.69 Mbit/s)　　　Flow 1 egress (mean 182.63 Mbit/s)



Flow 1 (95th percentile 72.94 ms)

```
Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 13:48:40
End at: 2018-06-06 13:49:10
Local clock offset: 0.105 ms
Remote clock offset: -0.042 ms


# Below is generated by plot.py at 2018-06-06 16:14:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.63 Mbit/s
95th percentile per-packet one-way delay: 74.166 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 181.63 Mbit/s
95th percentile per-packet one-way delay: 74.166 ms
Loss rate: 0.44%
```

Run 5: Report of TCP Cubic — Data Link

- - - - Flow 1 ingress (mean 181.69 Mbit/s) ——— Flow 1 egress (mean 181.63 Mbit/s)
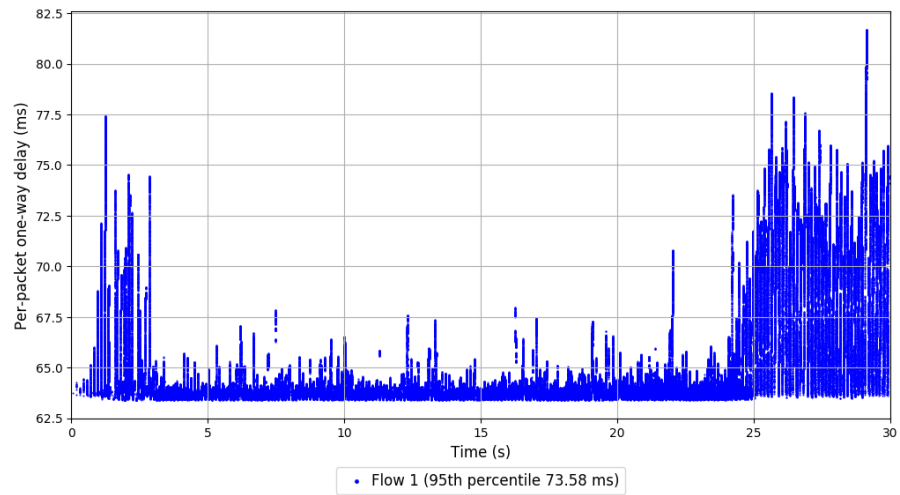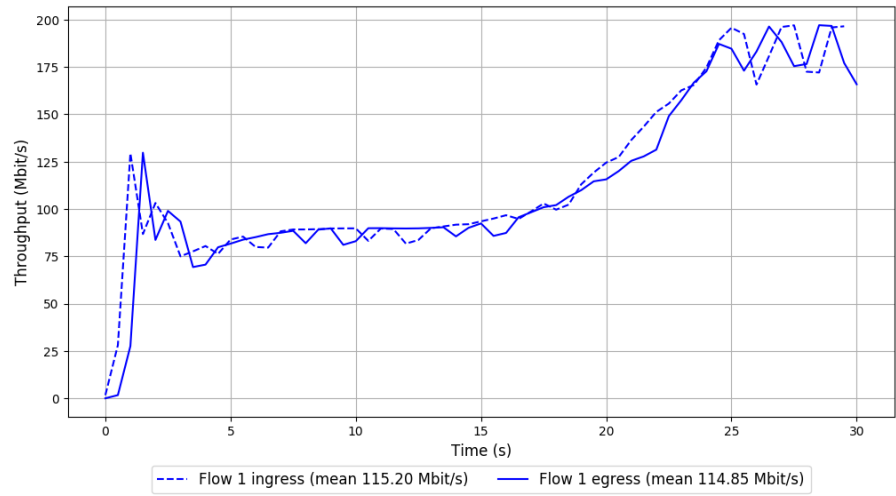

• Flow 1 (95th percentile 74.17 ms)

```
Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 14:08:55
End at: 2018-06-06 14:09:25
Local clock offset: 0.006 ms
Remote clock offset: -0.074 ms


# Below is generated by plot.py at 2018-06-06 16:15:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 162.72 Mbit/s
95th percentile per-packet one-way delay: 73.832 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 162.72 Mbit/s
95th percentile per-packet one-way delay: 73.832 ms
Loss rate: 0.55%
```

Run 6: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 162.93 Mbit/s)   Flow 1 egress (mean 162.72 Mbit/s)
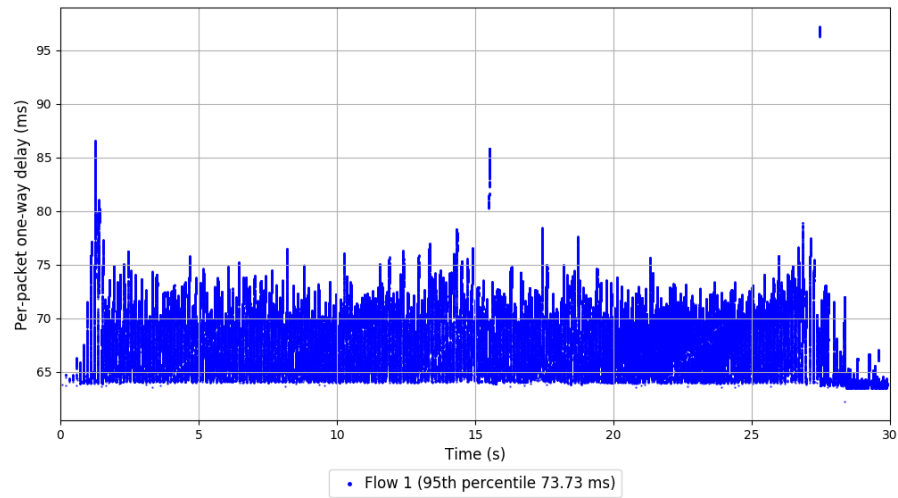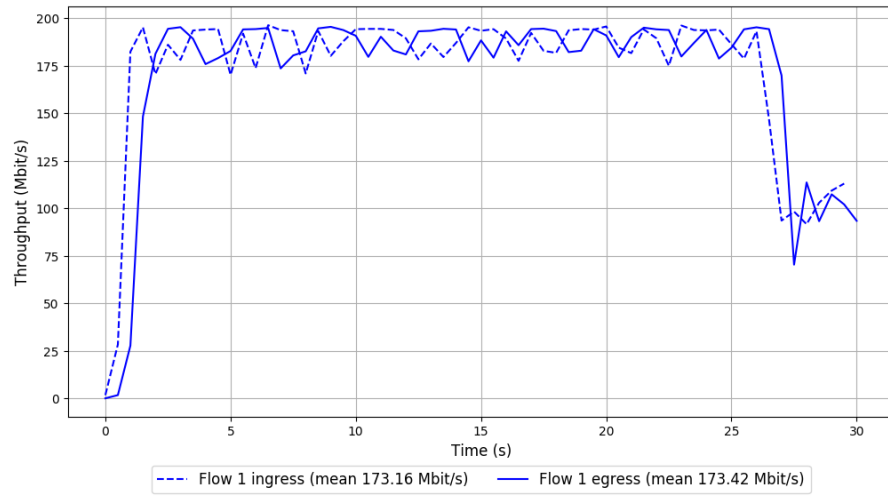

Flow 1 (95th percentile 73.83 ms)

```
Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 14:29:21
End at: 2018-06-06 14:29:51
Local clock offset: -0.07 ms
Remote clock offset: -0.091 ms


# Below is generated by plot.py at 2018-06-06 16:15:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.85 Mbit/s
95th percentile per-packet one-way delay: 73.578 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 114.85 Mbit/s
95th percentile per-packet one-way delay: 73.578 ms
Loss rate: 0.72%
```

Run 7: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 115.20 Mbit/s)   Flow 1 egress (mean 114.85 Mbit/s)

• Flow 1 (95th percentile 73.58 ms)

```
Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 14:49:42
End at: 2018-06-06 14:50:12
Local clock offset: -0.018 ms
Remote clock offset: -0.194 ms


# Below is generated by plot.py at 2018-06-06 16:15:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.42 Mbit/s
95th percentile per-packet one-way delay: 73.735 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 173.42 Mbit/s
95th percentile per-packet one-way delay: 73.735 ms
Loss rate: 0.28%
```
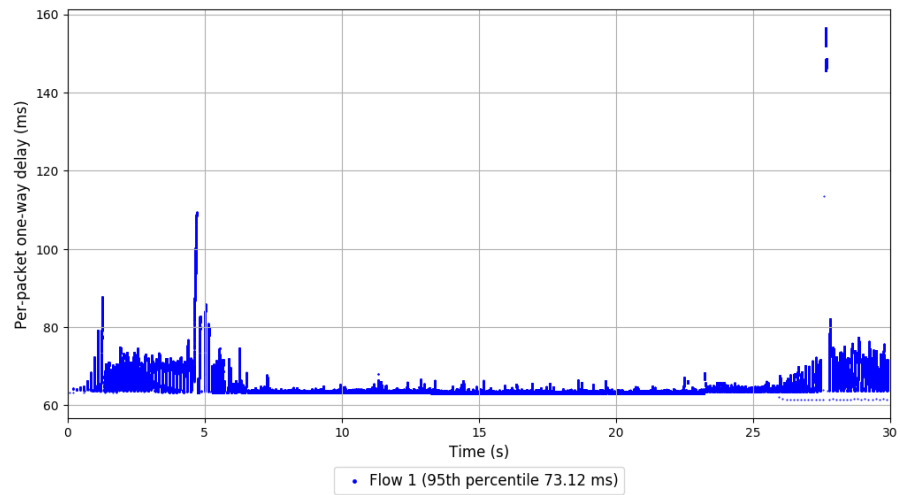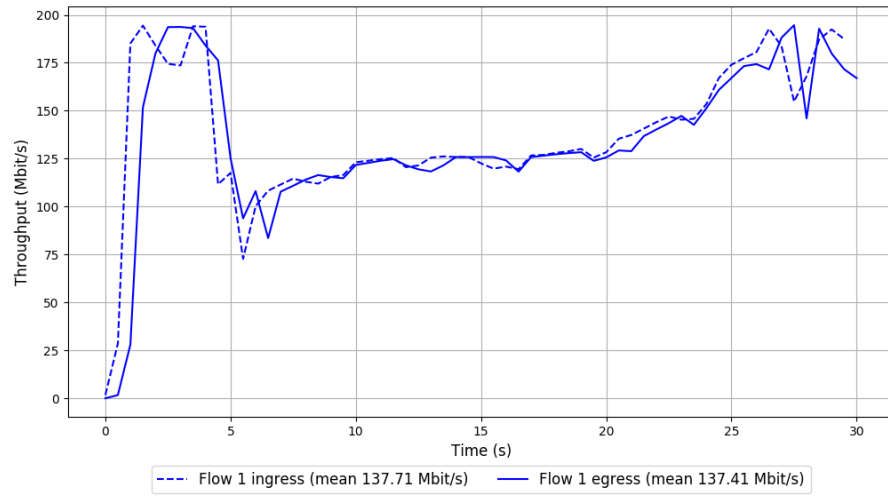
Run 8: Report of TCP Cubic — Data Link

```
Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 15:10:27
End at: 2018-06-06 15:10:57
Local clock offset: -0.005 ms
Remote clock offset: 0.142 ms


# Below is generated by plot.py at 2018-06-06 16:15:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.41 Mbit/s
95th percentile per-packet one-way delay: 73.124 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 137.41 Mbit/s
95th percentile per-packet one-way delay: 73.124 ms
Loss rate: 0.64%
```
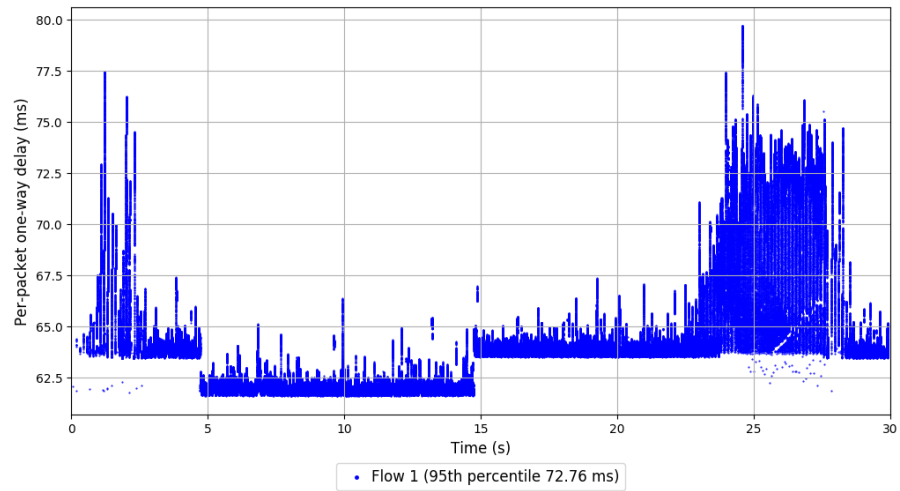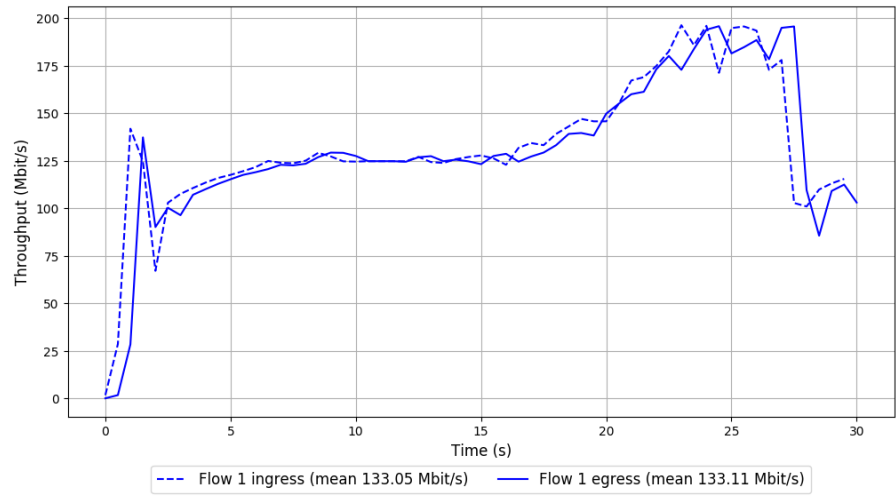
Run 9: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 137.71 Mbit/s) --- Flow 1 egress (mean 137.41 Mbit/s)

• Flow 1 (95th percentile 73.12 ms)

```
Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 15:31:06
End at: 2018-06-06 15:31:36
Local clock offset: -0.012 ms
Remote clock offset: -0.147 ms


# Below is generated by plot.py at 2018-06-06 16:15:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 133.11 Mbit/s
95th percentile per-packet one-way delay: 72.761 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 133.11 Mbit/s
95th percentile per-packet one-way delay: 72.761 ms
Loss rate: 0.37%
```
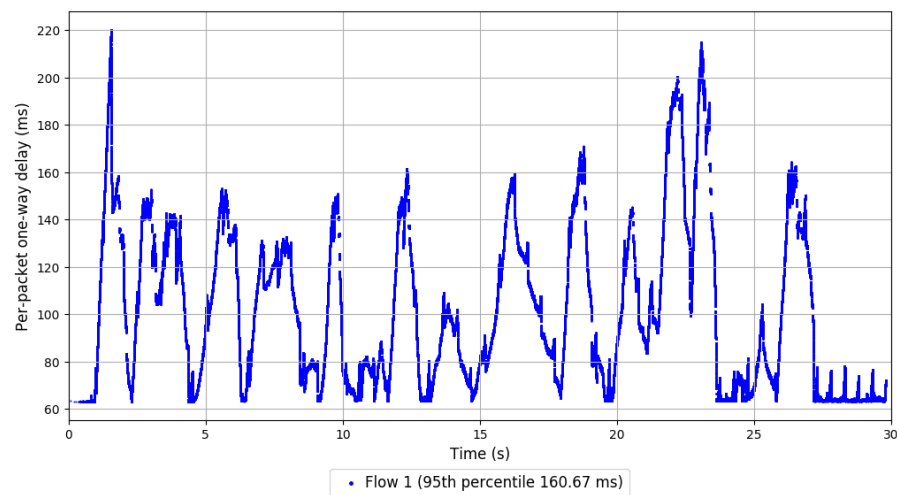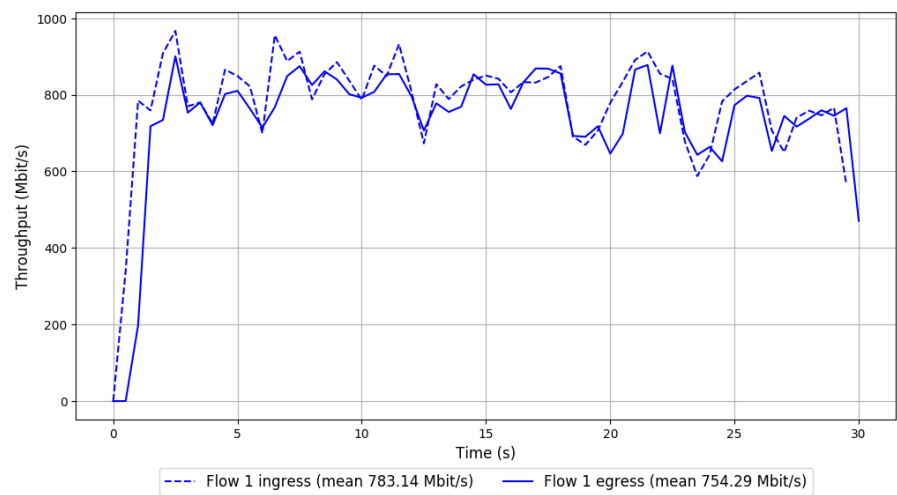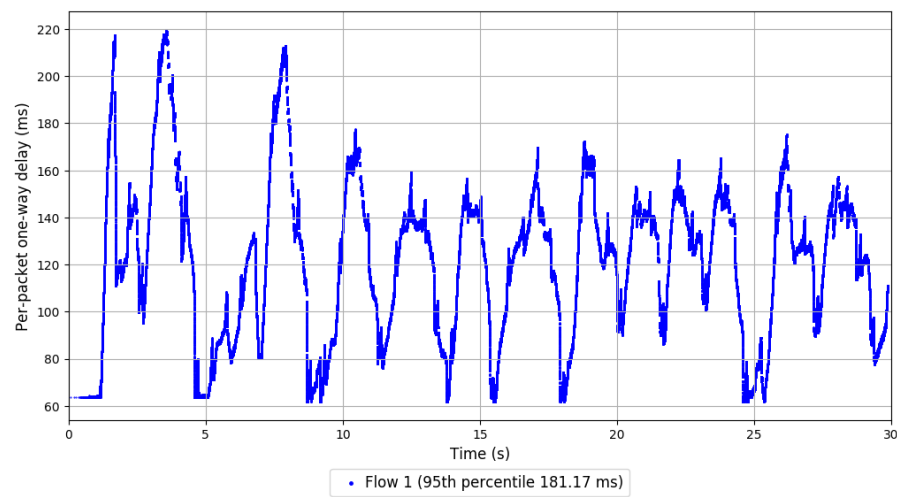
Run 10: Report of TCP Cubic — Data Link

Flow 1 ingress (mean 133.05 Mbit/s) --- Flow 1 egress (mean 133.11 Mbit/s)
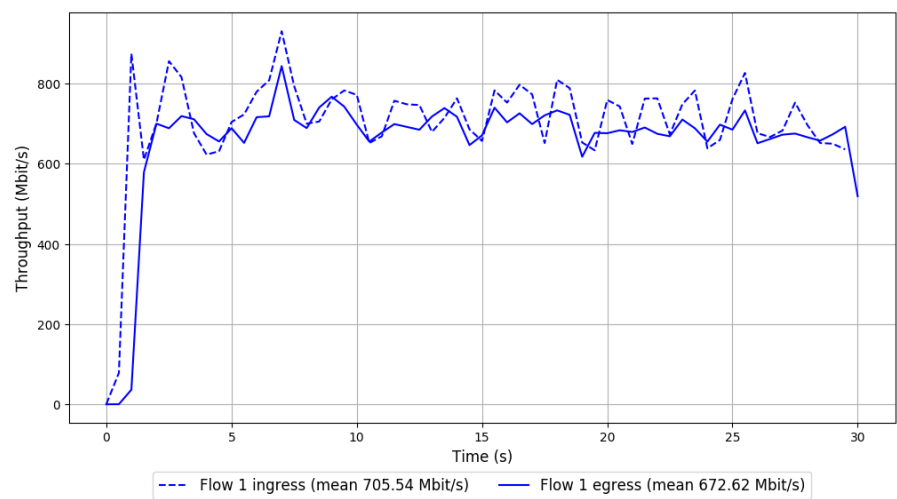

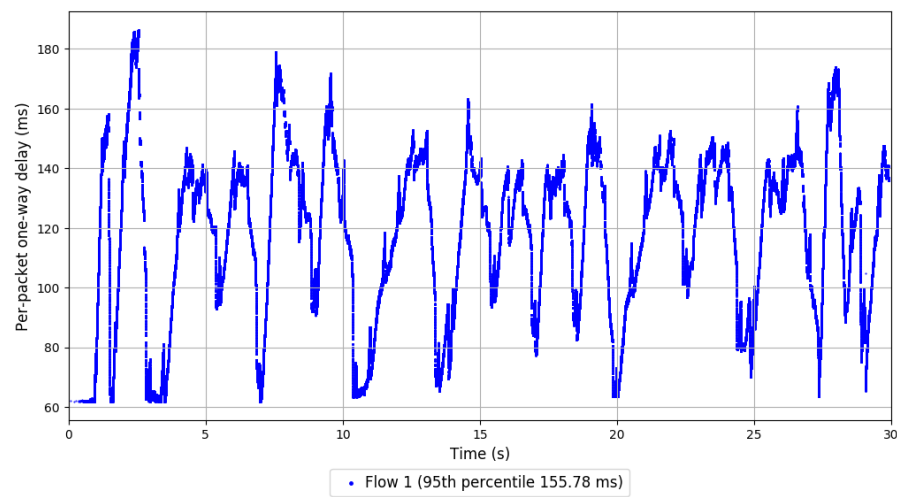Flow 1 (95th percentile 72.76 ms)

63

```
Run 1: Statistics of FillP

Start at: 2018-06-06 12:45:35
End at: 2018-06-06 12:46:05
Local clock offset: -0.01 ms
Remote clock offset: 0.009 ms


# Below is generated by plot.py at 2018-06-06 16:30:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 754.29 Mbit/s
95th percentile per-packet one-way delay: 160.666 ms
Loss rate: 4.10%
-- Flow 1:
Average throughput: 754.29 Mbit/s
95th percentile per-packet one-way delay: 160.666 ms
Loss rate: 4.10%
```

Run 1: Report of FillP — Data Link

Flow 1 ingress (mean 783.14 Mbit/s)   Flow 1 egress (mean 754.29 Mbit/s)

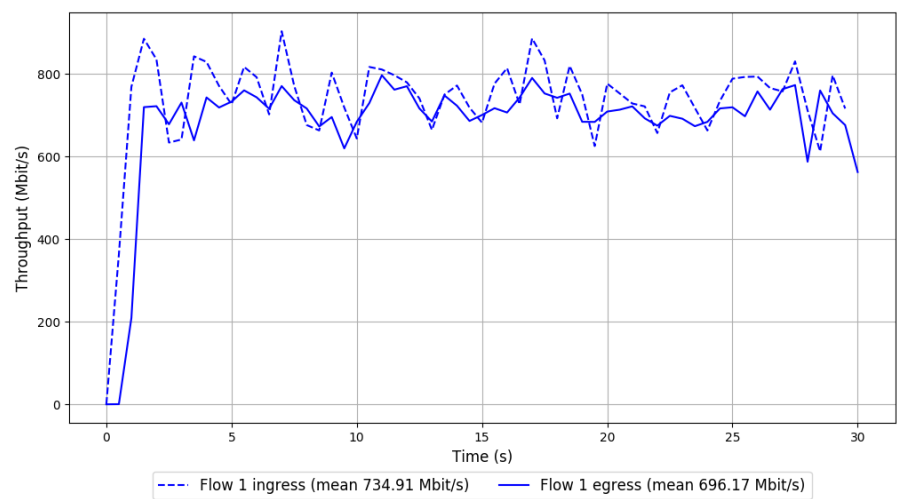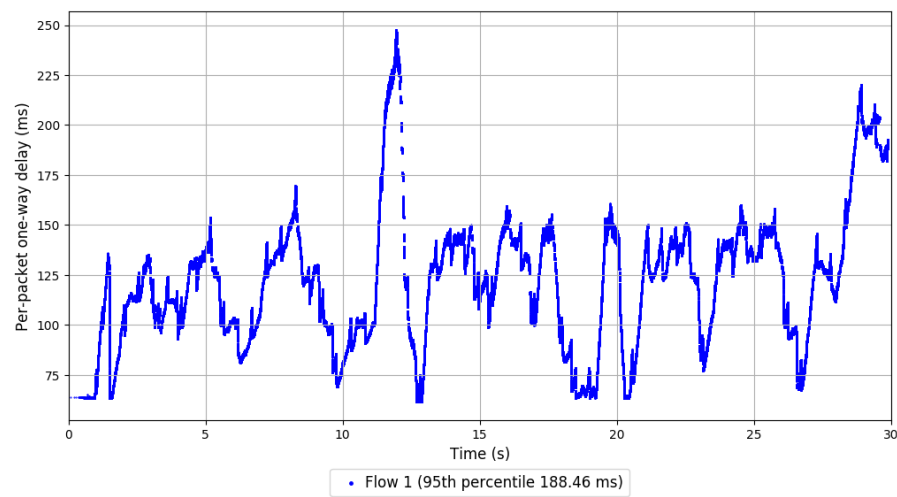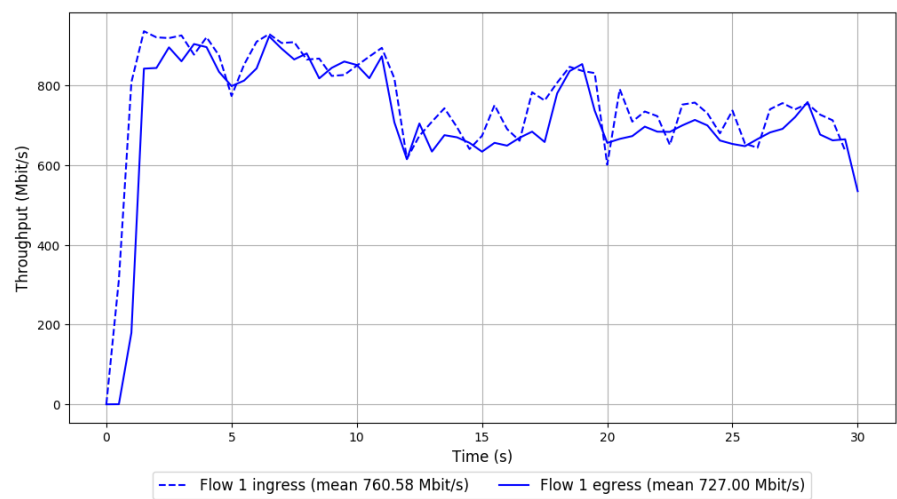Flow 1 (95th percentile 160.67 ms)

```
Run 2: Statistics of FillP

Start at: 2018-06-06 13:06:02
End at: 2018-06-06 13:06:32
Local clock offset: -0.014 ms
Remote clock offset: -0.315 ms


# Below is generated by plot.py at 2018-06-06 16:30:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 672.62 Mbit/s
95th percentile per-packet one-way delay: 181.169 ms
Loss rate: 5.07%
-- Flow 1:
Average throughput: 672.62 Mbit/s
95th percentile per-packet one-way delay: 181.169 ms
Loss rate: 5.07%
```

Run 2: Report of FillP — Data Link

Flow 1 ingress (mean 705.54 Mbit/s)   Flow 1 egress (mean 672.62 Mbit/s)

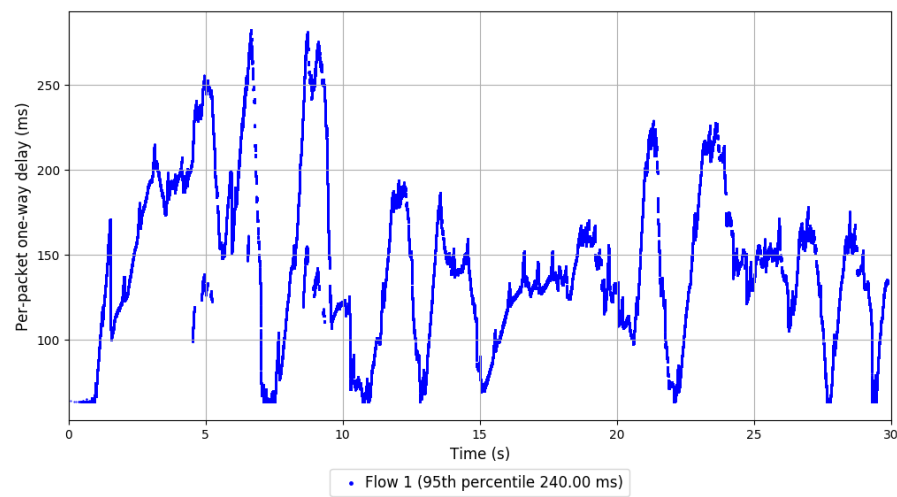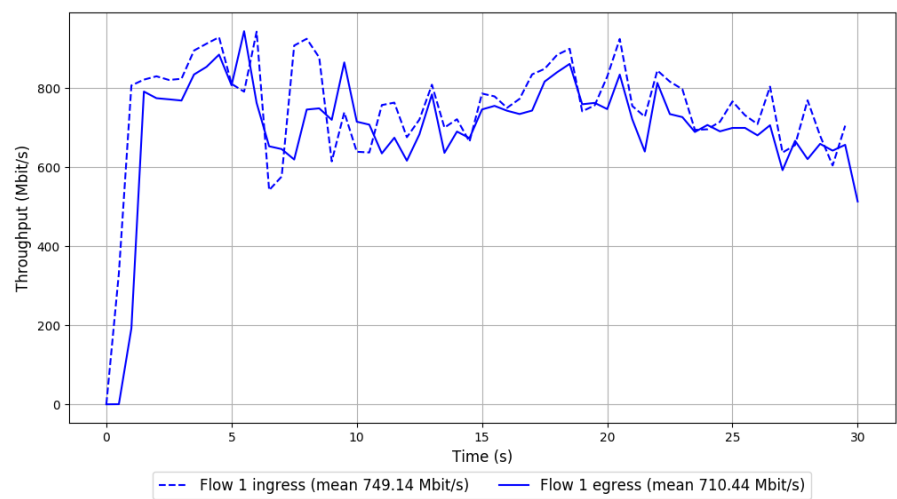
• Flow 1 (95th percentile 181.17 ms)

```
Run 3: Statistics of FillP

Start at: 2018-06-06 13:26:42
End at: 2018-06-06 13:27:12
Local clock offset: 0.024 ms
Remote clock offset: -0.096 ms


# Below is generated by plot.py at 2018-06-06 16:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 696.17 Mbit/s
95th percentile per-packet one-way delay: 155.785 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 696.17 Mbit/s
95th percentile per-packet one-way delay: 155.785 ms
Loss rate: 5.67%
```

Run 3: Report of FillP — Data Link

```
Run 4: Statistics of FillP

Start at: 2018-06-06 13:47:05
End at: 2018-06-06 13:47:35
Local clock offset: 0.125 ms
Remote clock offset: -0.066 ms


# Below is generated by plot.py at 2018-06-06 16:30:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 727.00 Mbit/s
95th percentile per-packet one-way delay: 188.459 ms
Loss rate: 4.82%
-- Flow 1:
Average throughput: 727.00 Mbit/s
95th percentile per-packet one-way delay: 188.459 ms
Loss rate: 4.82%
```
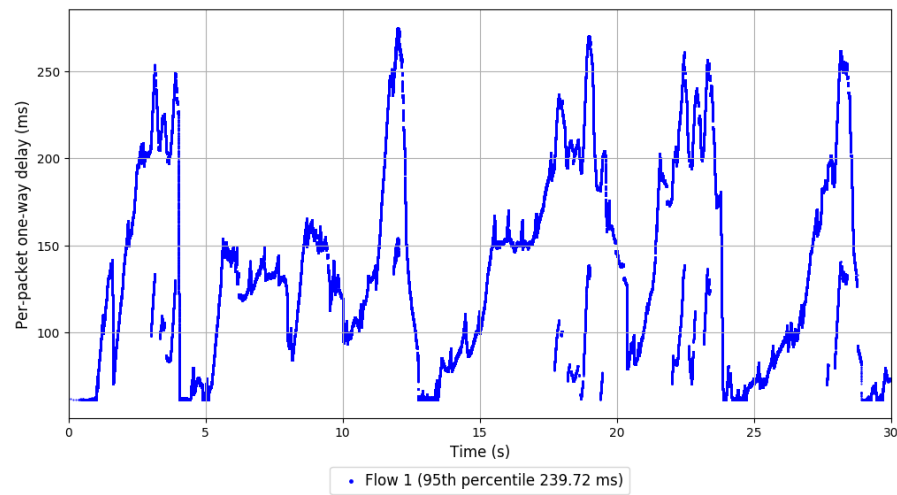
Run 4: Report of FillP — Data Link

Flow 1 ingress (mean 760.58 Mbit/s)   Flow 1 egress (mean 727.00 Mbit/s)

Flow 1 (95th percentile 188.46 ms)

```
Run 5: Statistics of FillP

Start at: 2018-06-06 14:07:19
End at: 2018-06-06 14:07:49
Local clock offset: -0.023 ms
Remote clock offset: -0.087 ms


# Below is generated by plot.py at 2018-06-06 16:30:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 710.44 Mbit/s
95th percentile per-packet one-way delay: 240.000 ms
Loss rate: 5.57%
-- Flow 1:
Average throughput: 710.44 Mbit/s
95th percentile per-packet one-way delay: 240.000 ms
Loss rate: 5.57%
```
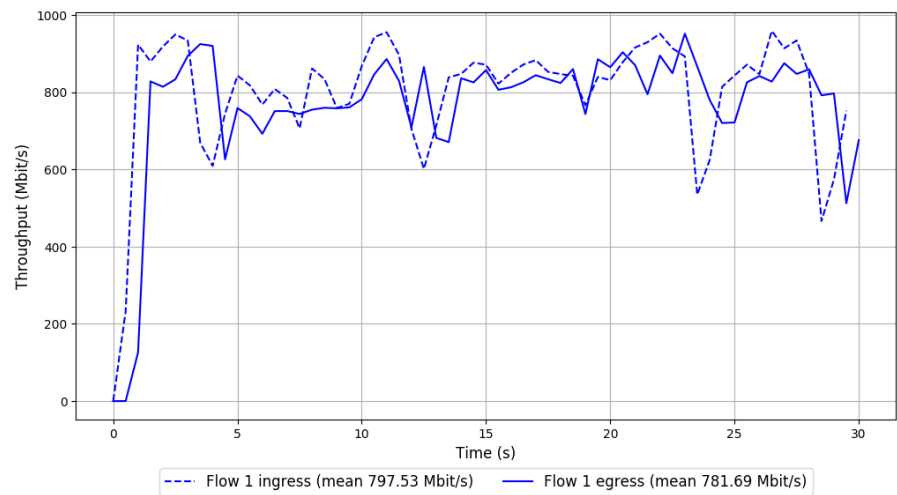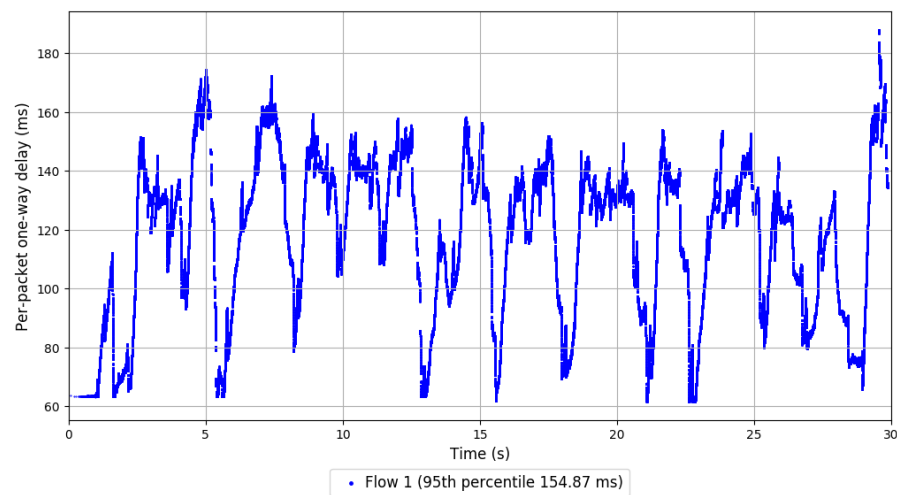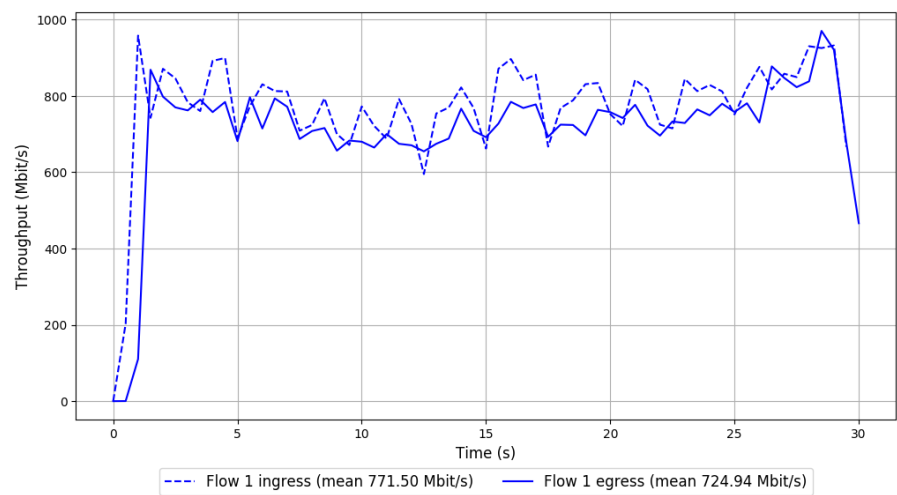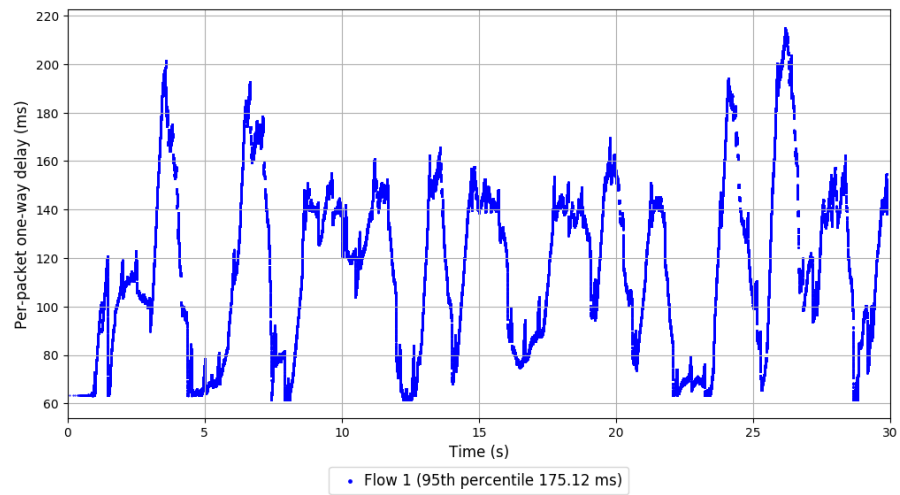
Run 5: Report of FillP — Data Link

```
Run 6: Statistics of FillP

Start at: 2018-06-06 14:27:42
End at: 2018-06-06 14:28:12
Local clock offset: -0.092 ms
Remote clock offset: -0.2 ms


# Below is generated by plot.py at 2018-06-06 16:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 781.69 Mbit/s
95th percentile per-packet one-way delay: 239.719 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 781.69 Mbit/s
95th percentile per-packet one-way delay: 239.719 ms
Loss rate: 2.24%
```
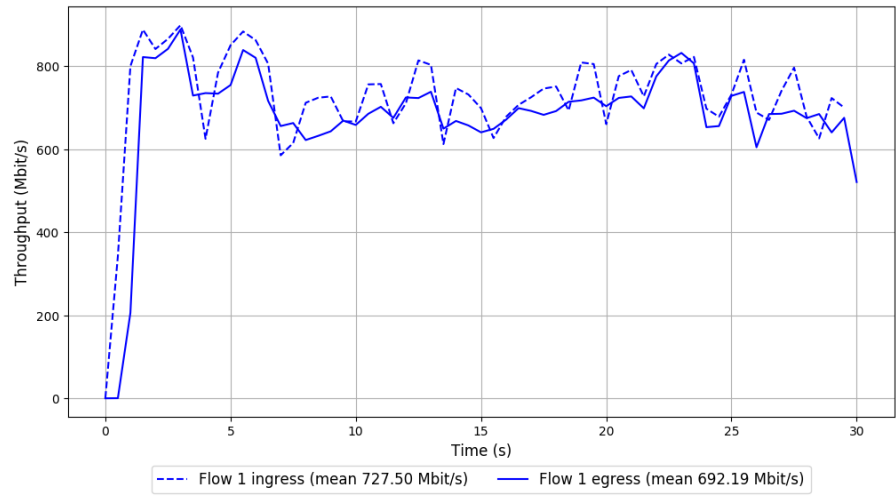
Run 6: Report of FillP — Data Link

```
Run 7: Statistics of FillP

Start at: 2018-06-06 14:48:06
End at: 2018-06-06 14:48:36
Local clock offset: -0.077 ms
Remote clock offset: -0.126 ms


# Below is generated by plot.py at 2018-06-06 16:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 724.94 Mbit/s
95th percentile per-packet one-way delay: 154.870 ms
Loss rate: 6.43%
-- Flow 1:
Average throughput: 724.94 Mbit/s
95th percentile per-packet one-way delay: 154.870 ms
Loss rate: 6.43%
```

Run 7: Report of FillP — Data Link

```
Run 8: Statistics of FillP

Start at: 2018-06-06 15:08:53
End at: 2018-06-06 15:09:23
Local clock offset: -0.038 ms
Remote clock offset: -0.146 ms


# Below is generated by plot.py at 2018-06-06 16:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 692.19 Mbit/s
95th percentile per-packet one-way delay: 175.125 ms
Loss rate: 5.26%
-- Flow 1:
Average throughput: 692.19 Mbit/s
95th percentile per-packet one-way delay: 175.125 ms
Loss rate: 5.26%
```
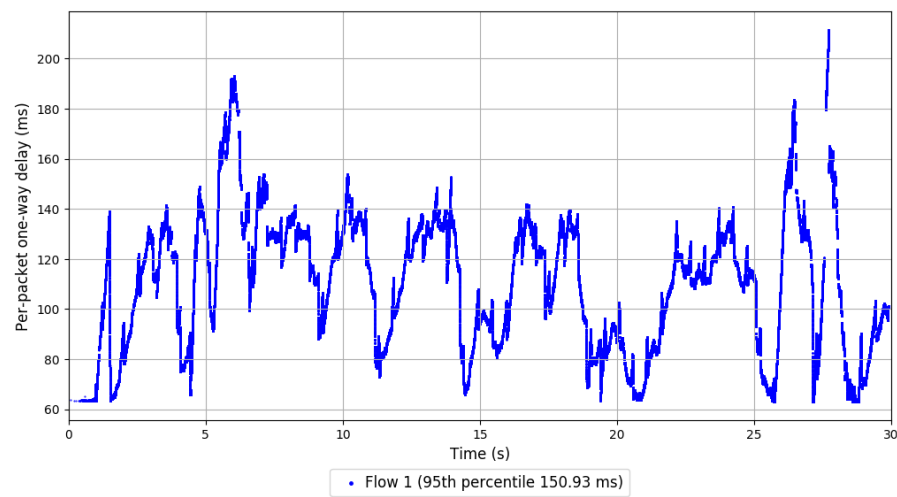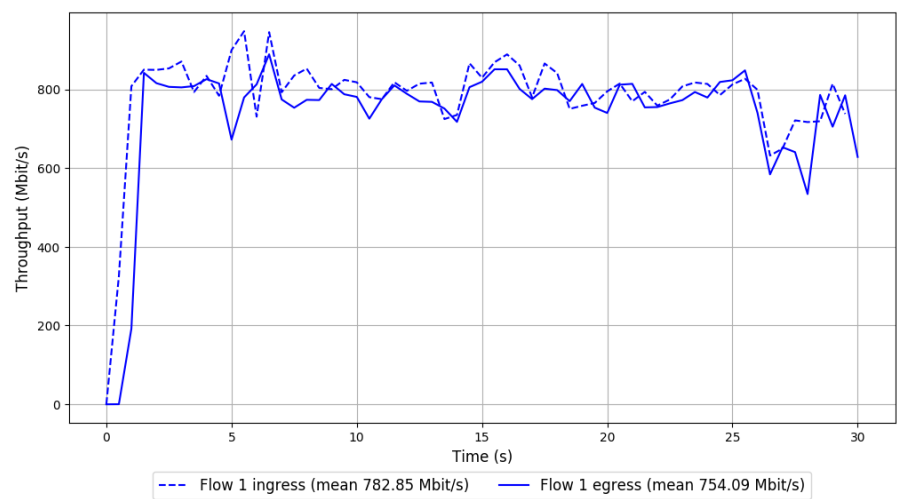
Run 8: Report of FillP — Data Link

Flow 1 ingress (mean 727.50 Mbit/s) --- Flow 1 egress (mean 692.19 Mbit/s)
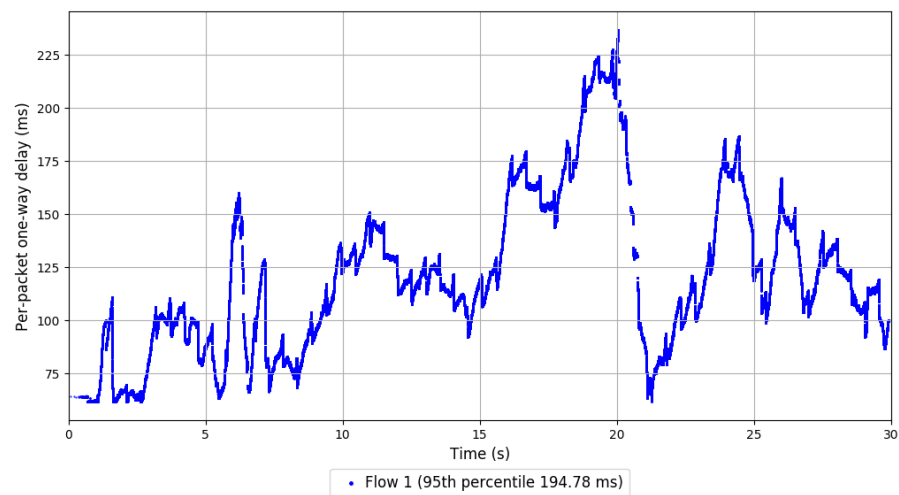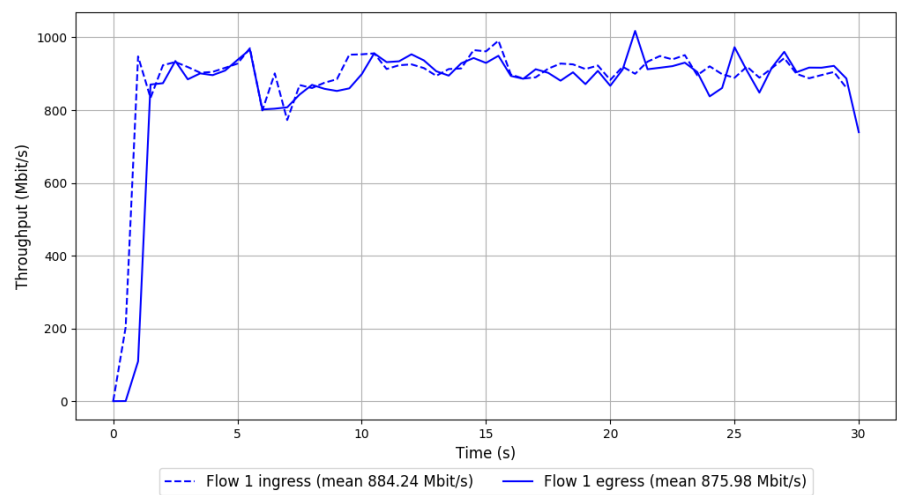

Flow 1 (95th percentile 175.12 ms)

```
Run 9: Statistics of FillP

Start at: 2018-06-06 15:29:29
End at: 2018-06-06 15:29:59
Local clock offset: -0.064 ms
Remote clock offset: 0.17 ms


# Below is generated by plot.py at 2018-06-06 16:46:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 754.09 Mbit/s
95th percentile per-packet one-way delay: 150.926 ms
Loss rate: 4.08%
-- Flow 1:
Average throughput: 754.09 Mbit/s
95th percentile per-packet one-way delay: 150.926 ms
Loss rate: 4.08%
```
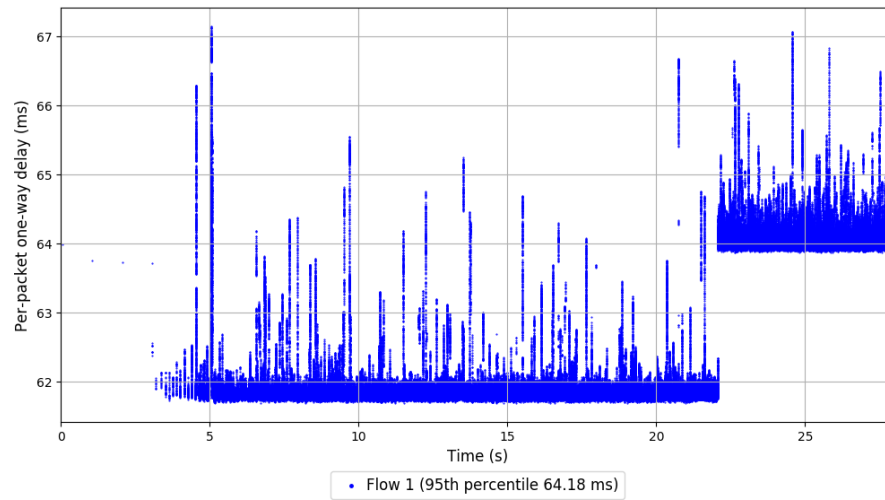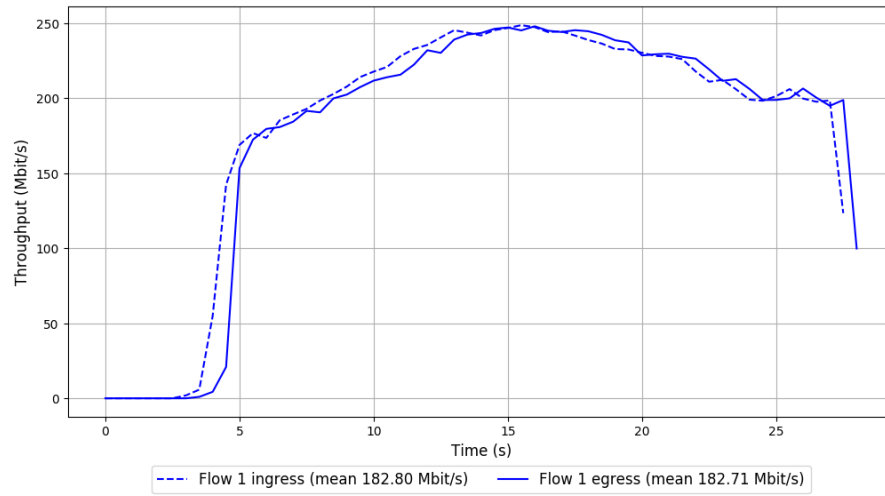
Run 9: Report of FillP — Data Link

Flow 1 ingress (mean 782.85 Mbit/s)   Flow 1 egress (mean 754.09 Mbit/s)

Flow 1 (95th percentile 150.93 ms)

```
Run 10: Statistics of FillP

Start at: 2018-06-06 15:49:40
End at: 2018-06-06 15:50:10
Local clock offset: -0.058 ms
Remote clock offset: -0.109 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 875.98 Mbit/s
95th percentile per-packet one-way delay: 194.781 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 875.98 Mbit/s
95th percentile per-packet one-way delay: 194.781 ms
Loss rate: 1.36%
```

Run 10: Report of FillP — Data Link

Flow 1 ingress (mean 884.24 Mbit/s)   Flow 1 egress (mean 875.98 Mbit/s)

• Flow 1 (95th percentile 194.78 ms)

```
Run 1: Statistics of Indigo

Start at: 2018-06-06 12:27:56
End at: 2018-06-06 12:28:26
Local clock offset: -0.018 ms
Remote clock offset: -0.273 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.71 Mbit/s
95th percentile per-packet one-way delay: 64.180 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 182.71 Mbit/s
95th percentile per-packet one-way delay: 64.180 ms
Loss rate: 0.51%
```
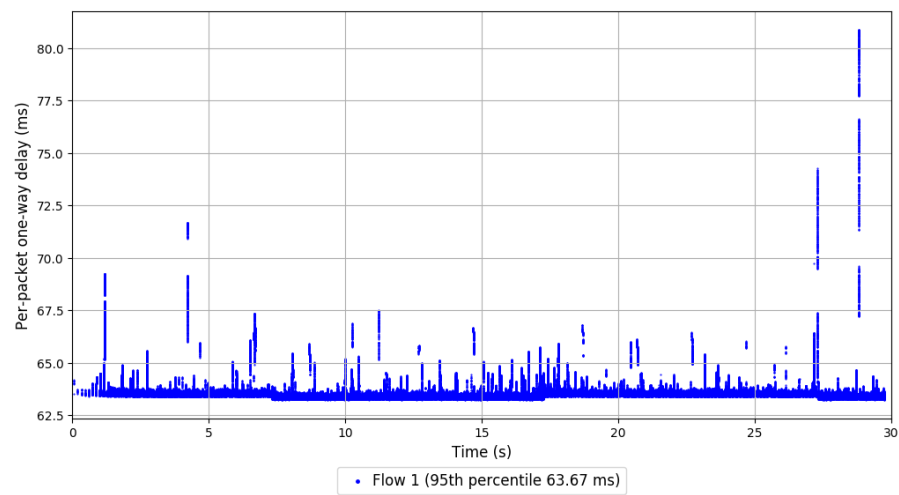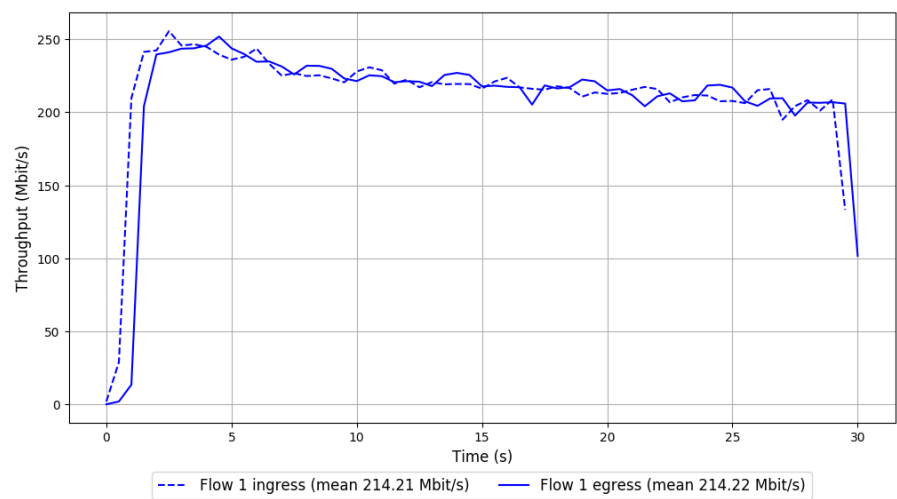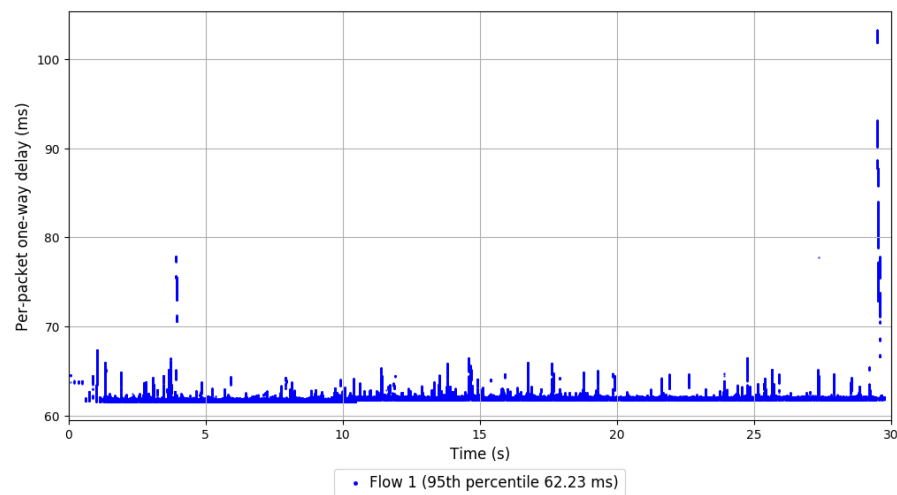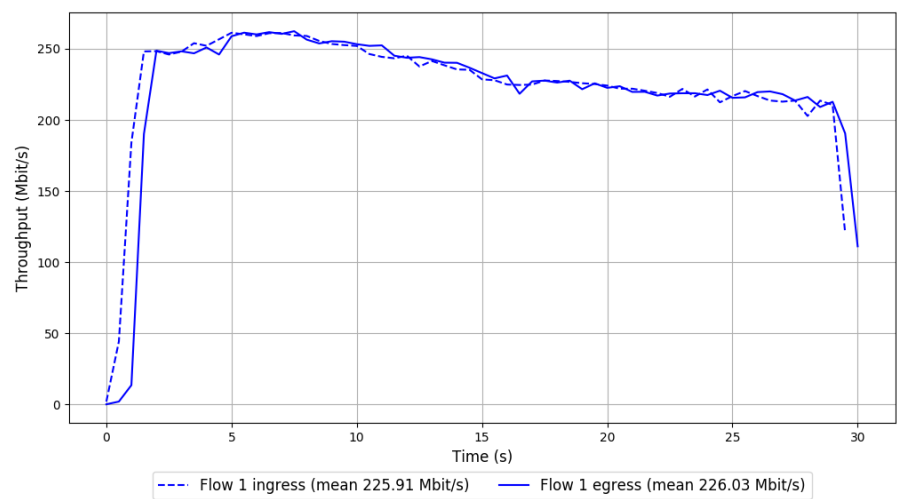
Run 1: Report of Indigo — Data Link

```
Run 2: Statistics of Indigo

Start at: 2018-06-06 12:48:23
End at: 2018-06-06 12:48:53
Local clock offset: -0.01 ms
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.22 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 214.22 Mbit/s
95th percentile per-packet one-way delay: 63.671 ms
Loss rate: 0.42%
```
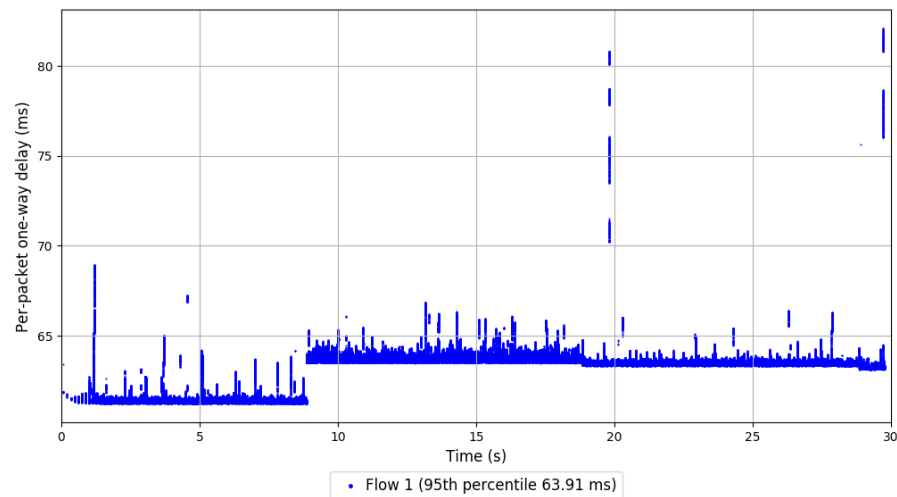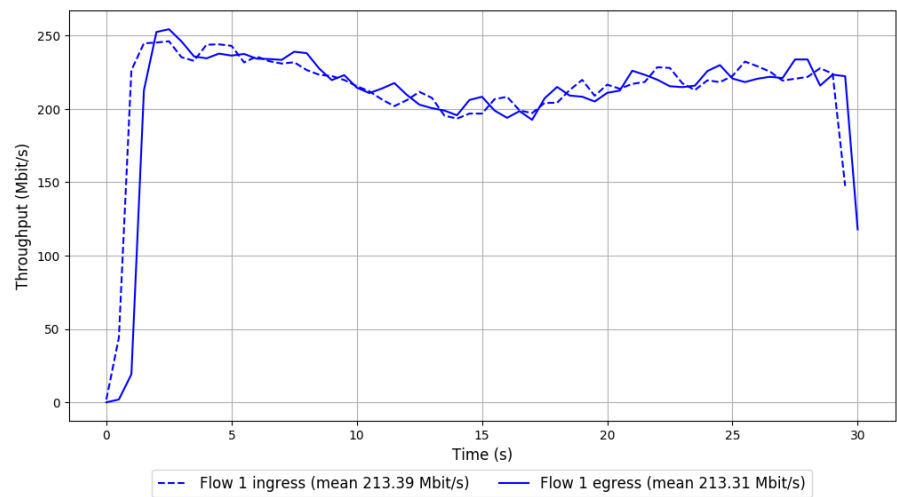
Run 2: Report of Indigo — Data Link

```
Run 3: Statistics of Indigo

Start at: 2018-06-06 13:08:50
End at: 2018-06-06 13:09:20
Local clock offset: -0.017 ms
Remote clock offset: -0.306 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.03 Mbit/s
95th percentile per-packet one-way delay: 62.235 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 226.03 Mbit/s
95th percentile per-packet one-way delay: 62.235 ms
Loss rate: 0.37%
```

Run 3: Report of Indigo — Data Link

```
Run 4: Statistics of Indigo

Start at: 2018-06-06 13:29:31
End at: 2018-06-06 13:30:01
Local clock offset: 0.035 ms
Remote clock offset: 0.055 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.31 Mbit/s
95th percentile per-packet one-way delay: 63.910 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 213.31 Mbit/s
95th percentile per-packet one-way delay: 63.910 ms
Loss rate: 0.46%
```
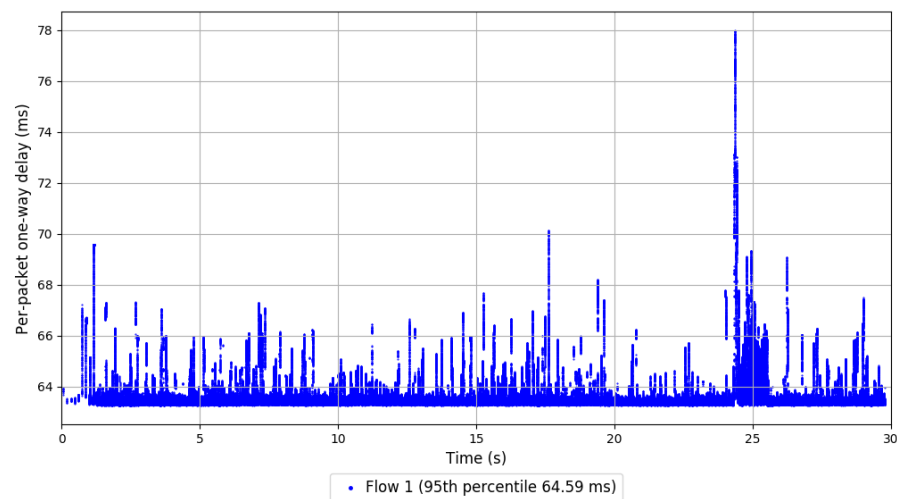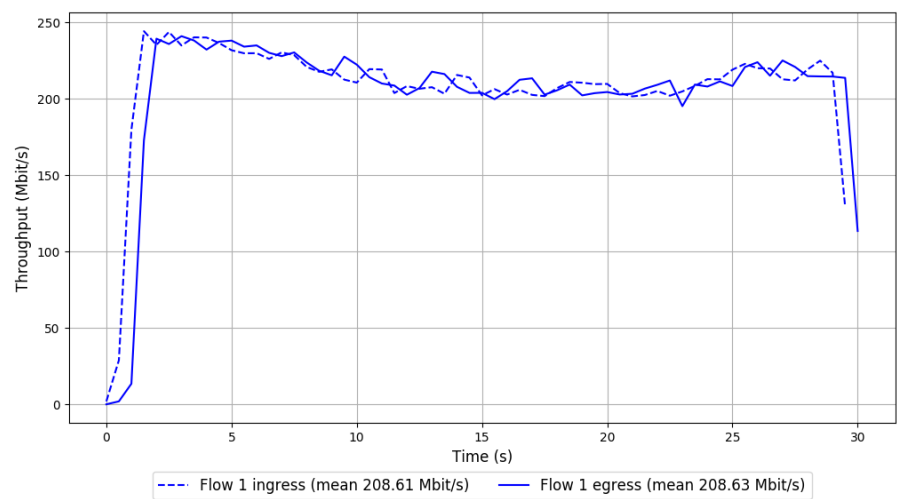
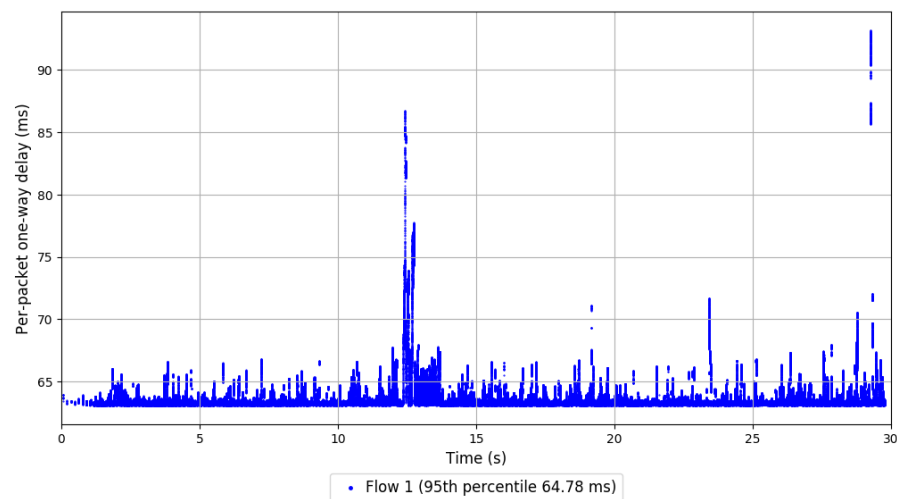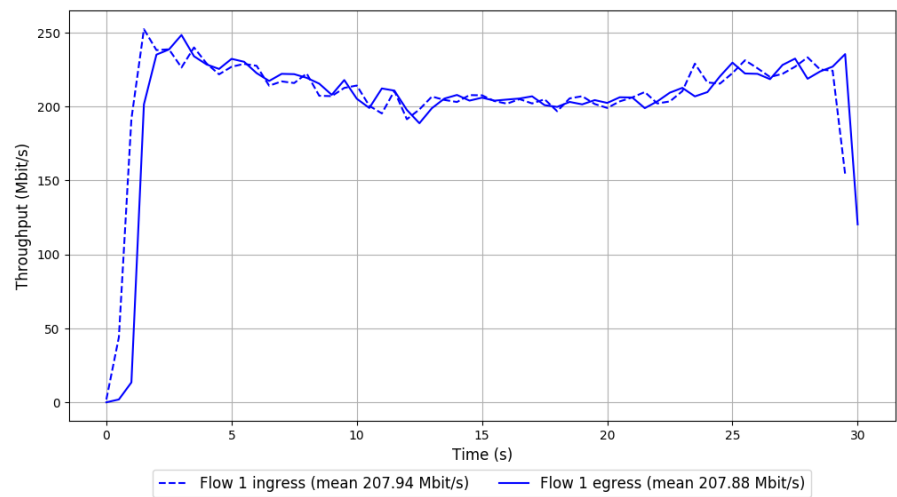Run 4: Report of Indigo — Data Link

Flow 1 ingress (mean 213.39 Mbit/s)   Flow 1 egress (mean 213.31 Mbit/s)

Flow 1 (95th percentile 63.91 ms)

```
Run 5: Statistics of Indigo

Start at: 2018-06-06 13:49:55
End at: 2018-06-06 13:50:25
Local clock offset: 0.106 ms
Remote clock offset: -0.035 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.63 Mbit/s
95th percentile per-packet one-way delay: 64.592 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 208.63 Mbit/s
95th percentile per-packet one-way delay: 64.592 ms
Loss rate: 0.41%
```
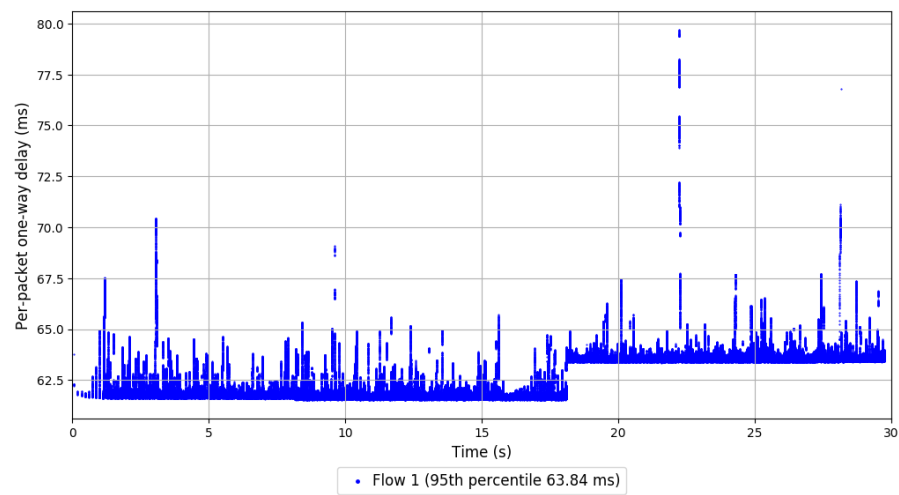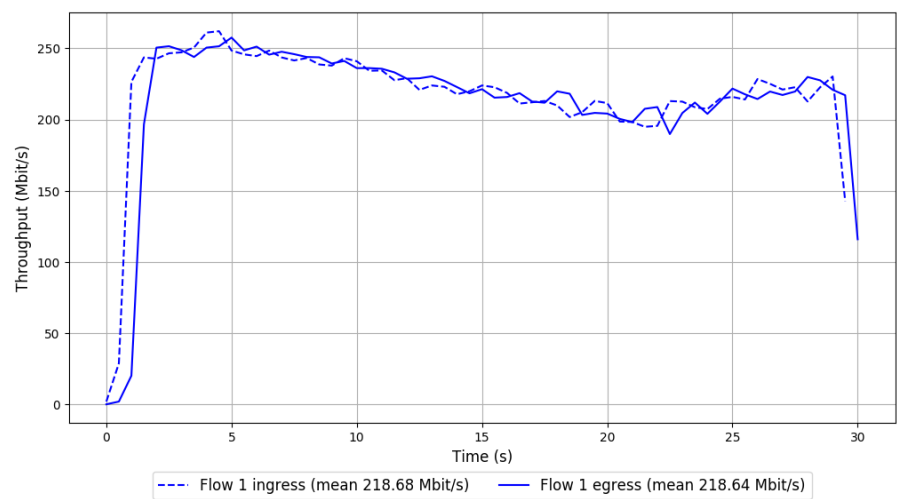
Run 5: Report of Indigo — Data Link

Flow 1 ingress (mean 208.61 Mbit/s)   Flow 1 egress (mean 208.63 Mbit/s)

Flow 1 (95th percentile 64.59 ms)

```
Run 6: Statistics of Indigo

Start at: 2018-06-06 14:10:09
End at: 2018-06-06 14:10:39
Local clock offset: -0.121 ms
Remote clock offset: -0.082 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.88 Mbit/s
95th percentile per-packet one-way delay: 64.775 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 207.88 Mbit/s
95th percentile per-packet one-way delay: 64.775 ms
Loss rate: 0.46%
```

Run 6: Report of Indigo — Data Link

Flow 1 ingress (mean 207.94 Mbit/s) ---   Flow 1 egress (mean 207.88 Mbit/s) ——
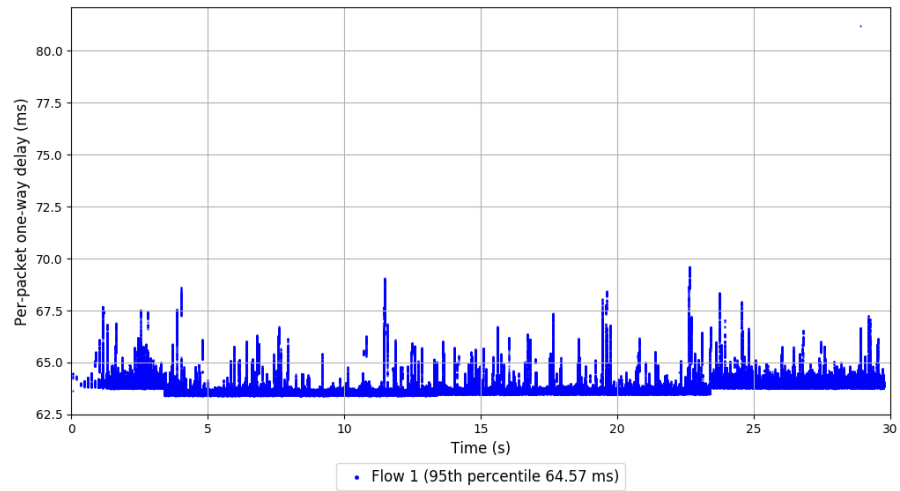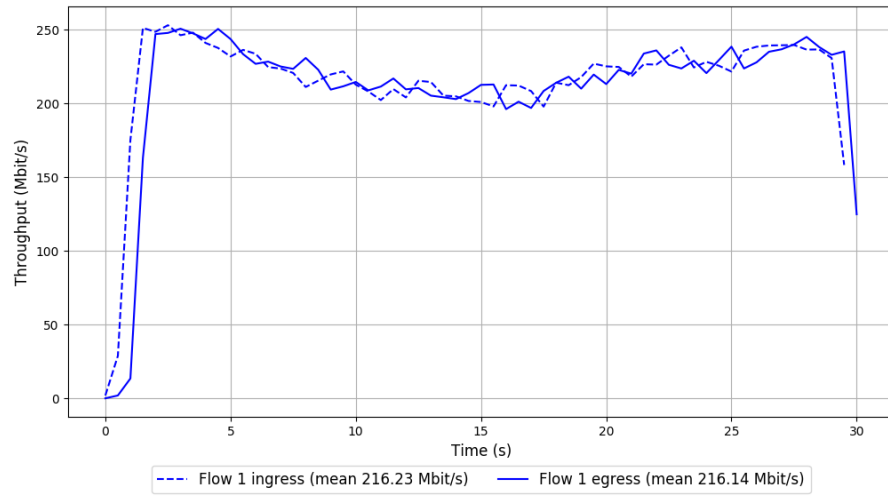

· Flow 1 (95th percentile 64.78 ms)

95

```
Run 7: Statistics of Indigo

Start at: 2018-06-06 14:30:32
End at: 2018-06-06 14:31:02
Local clock offset: -0.078 ms
Remote clock offset: -0.122 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.64 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 218.64 Mbit/s
95th percentile per-packet one-way delay: 63.841 ms
Loss rate: 0.44%
```

Run 7: Report of Indigo — Data Link

Flow 1 ingress (mean 218.68 Mbit/s)   Flow 1 egress (mean 218.64 Mbit/s)

Flow 1 (95th percentile 63.84 ms)

97

```
Run 8: Statistics of Indigo

Start at: 2018-06-06 14:50:57
End at: 2018-06-06 14:51:27
Local clock offset: -0.014 ms
Remote clock offset: -0.123 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.14 Mbit/s
95th percentile per-packet one-way delay: 64.568 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 216.14 Mbit/s
95th percentile per-packet one-way delay: 64.568 ms
Loss rate: 0.47%
```
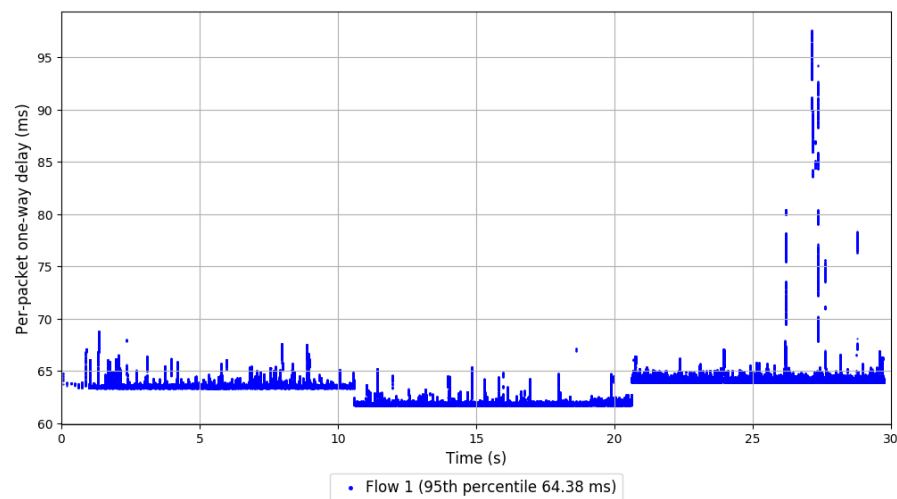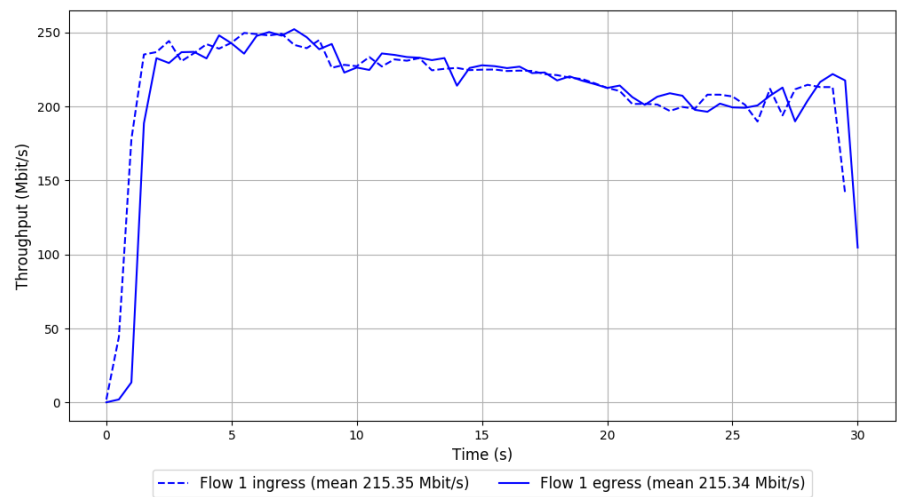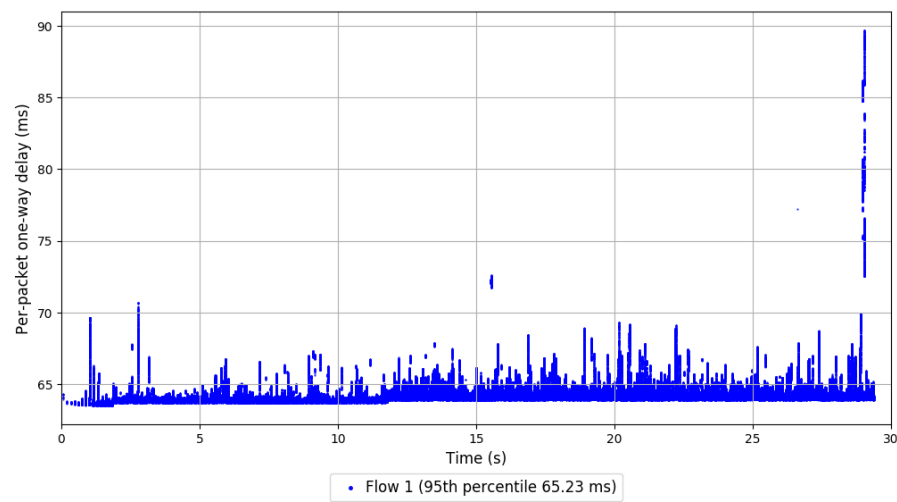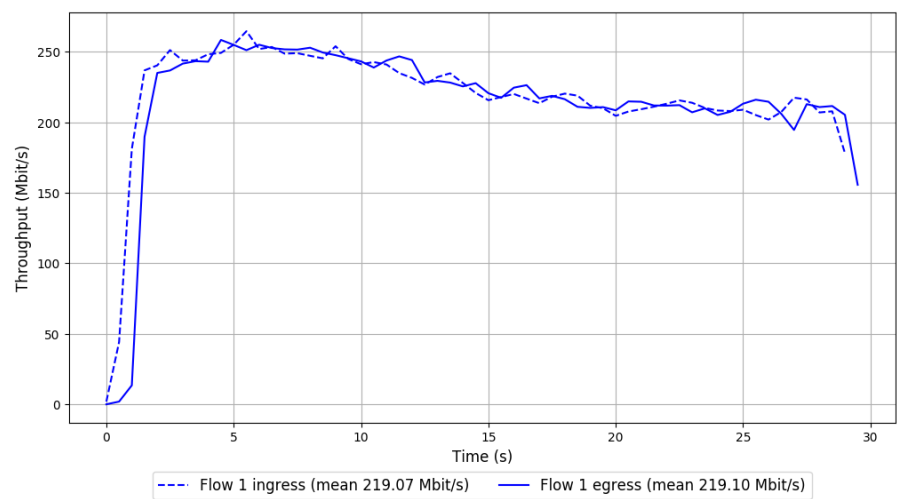
Run 8: Report of Indigo — Data Link

```
Run 9: Statistics of Indigo

Start at: 2018-06-06 15:11:40
End at: 2018-06-06 15:12:10
Local clock offset: 0.004 ms
Remote clock offset: -0.2 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.34 Mbit/s
95th percentile per-packet one-way delay: 64.383 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 215.34 Mbit/s
95th percentile per-packet one-way delay: 64.383 ms
Loss rate: 0.43%
```

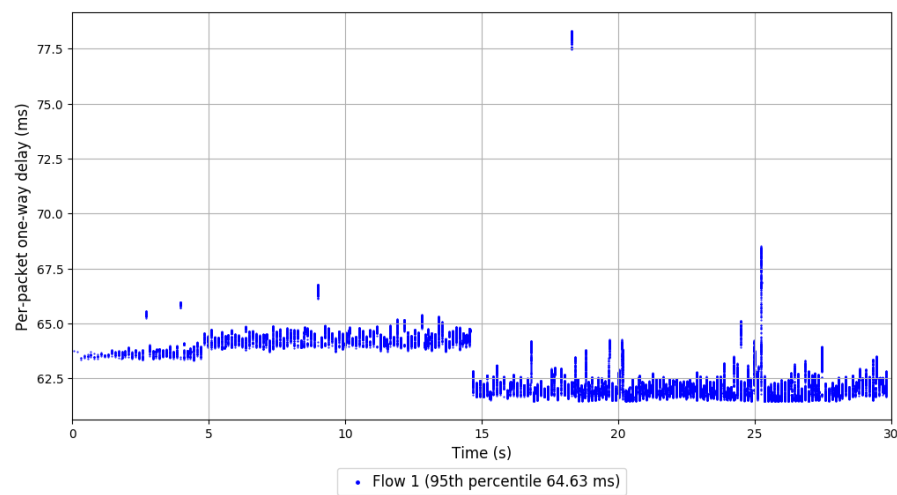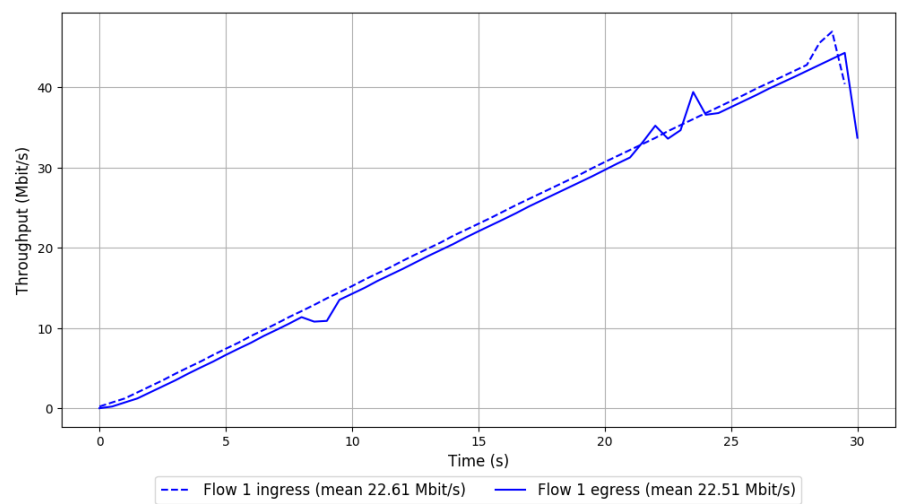## Run 9: Report of Indigo — Data Link

```
Run 10: Statistics of Indigo

Start at: 2018-06-06 15:32:18
End at: 2018-06-06 15:32:48
Local clock offset: -0.036 ms
Remote clock offset: -0.187 ms


# Below is generated by plot.py at 2018-06-06 16:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.10 Mbit/s
95th percentile per-packet one-way delay: 65.226 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 219.10 Mbit/s
95th percentile per-packet one-way delay: 65.226 ms
Loss rate: 0.42%
```

Run 10: Report of Indigo — Data Link

Flow 1 ingress (mean 219.07 Mbit/s) --- Flow 1 egress (mean 219.10 Mbit/s)

• Flow 1 (95th percentile 65.23 ms)

```
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 12:40:36
End at: 2018-06-06 12:41:06
Local clock offset: -0.013 ms
Remote clock offset: -0.101 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.51 Mbit/s
95th percentile per-packet one-way delay: 64.626 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 22.51 Mbit/s
95th percentile per-packet one-way delay: 64.626 ms
Loss rate: 0.84%
```
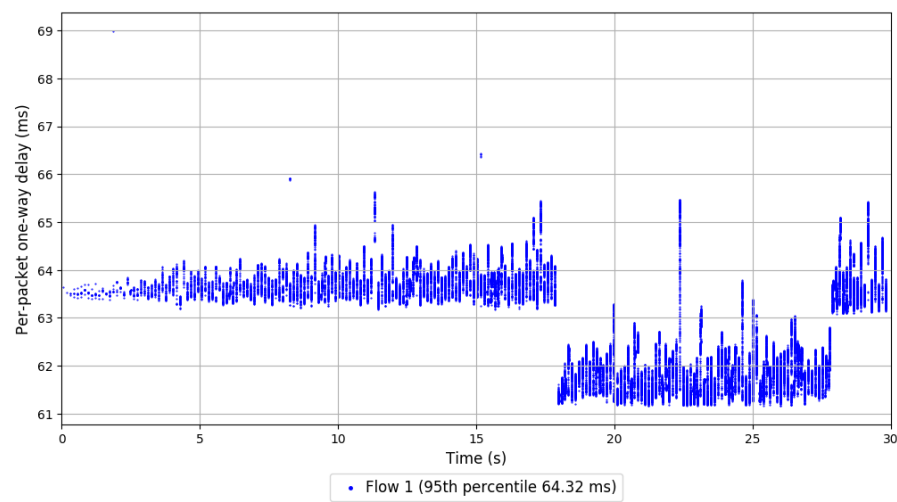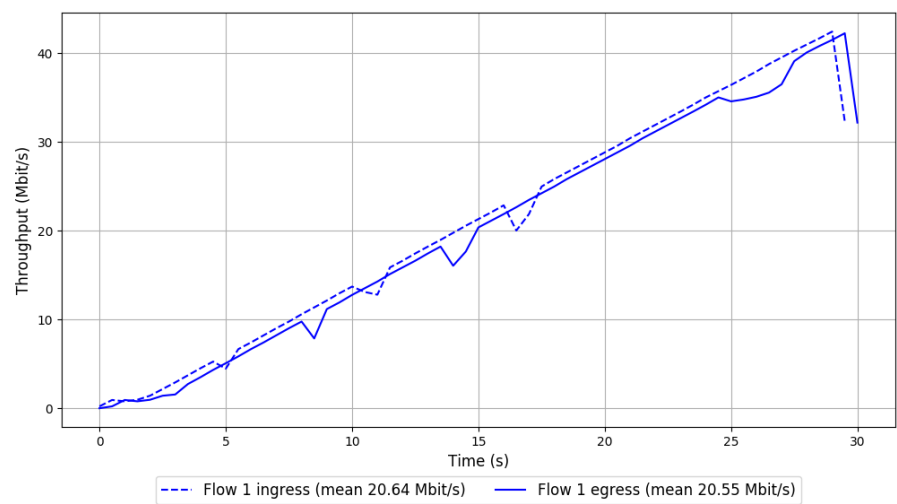
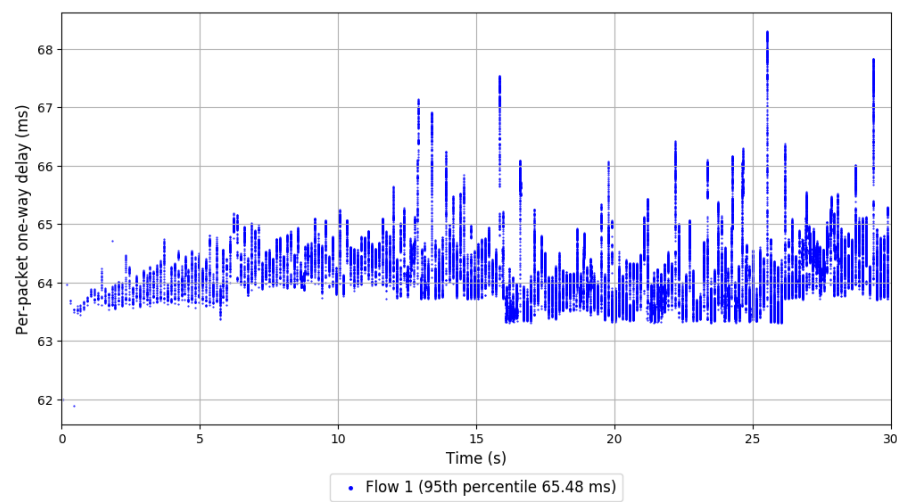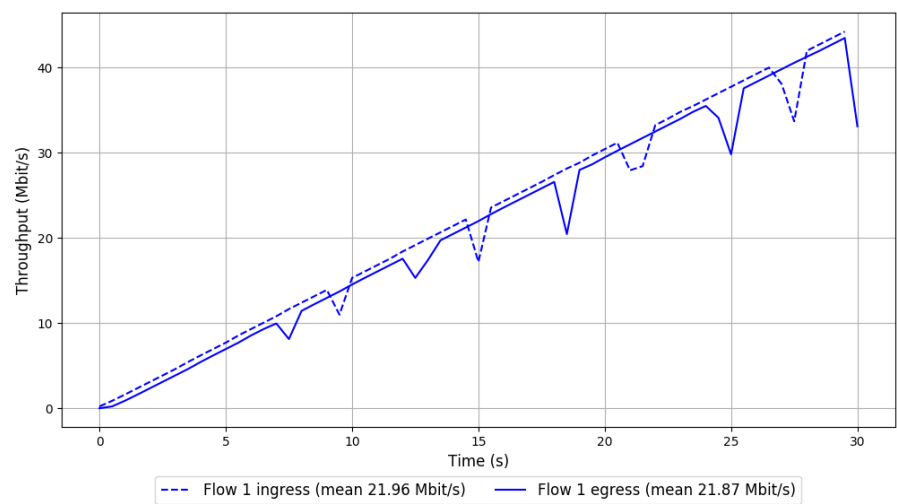Run 1: Report of LEDBAT — Data Link

Flow 1 ingress (mean 22.61 Mbit/s) — Flow 1 egress (mean 22.51 Mbit/s)

Flow 1 (95th percentile 64.63 ms)

```
Run 2: Statistics of LEDBAT

Start at: 2018-06-06 13:01:03
End at: 2018-06-06 13:01:33
Local clock offset: -0.015 ms
Remote clock offset: 0.075 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 64.323 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 20.55 Mbit/s
95th percentile per-packet one-way delay: 64.323 ms
Loss rate: 0.88%
```

Run 2: Report of LEDBAT — Data Link

Flow 1 ingress (mean 20.64 Mbit/s)   Flow 1 egress (mean 20.55 Mbit/s)

Flow 1 (95th percentile 64.32 ms)

```
Run 3: Statistics of LEDBAT

Start at: 2018-06-06 13:21:34
End at: 2018-06-06 13:22:04
Local clock offset: 0.025 ms
Remote clock offset: -0.143 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.87 Mbit/s
95th percentile per-packet one-way delay: 65.476 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 21.87 Mbit/s
95th percentile per-packet one-way delay: 65.476 ms
Loss rate: 0.85%
```
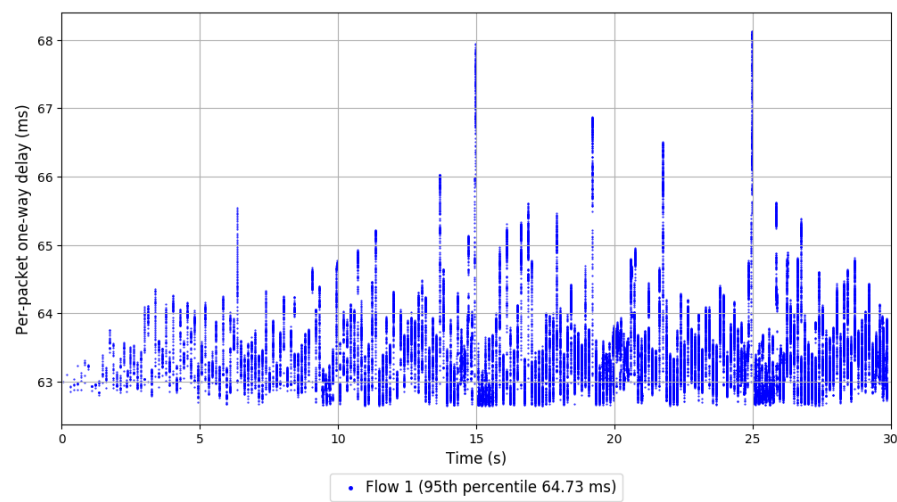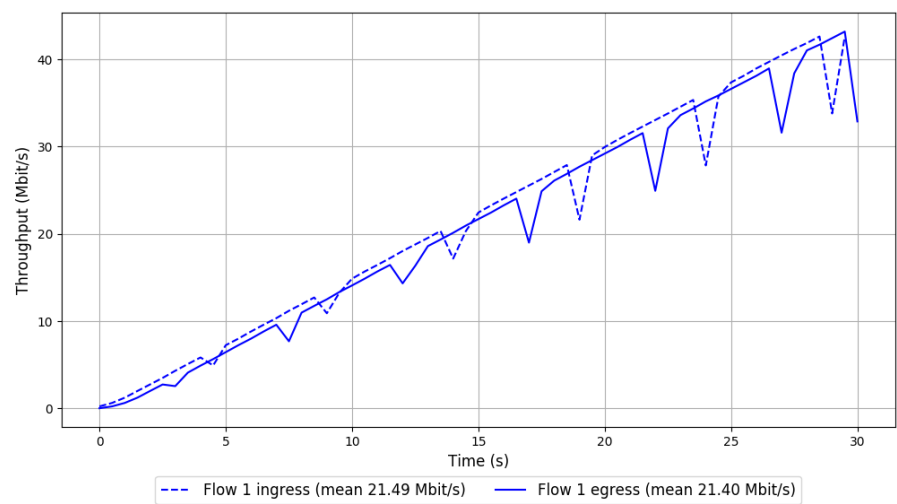
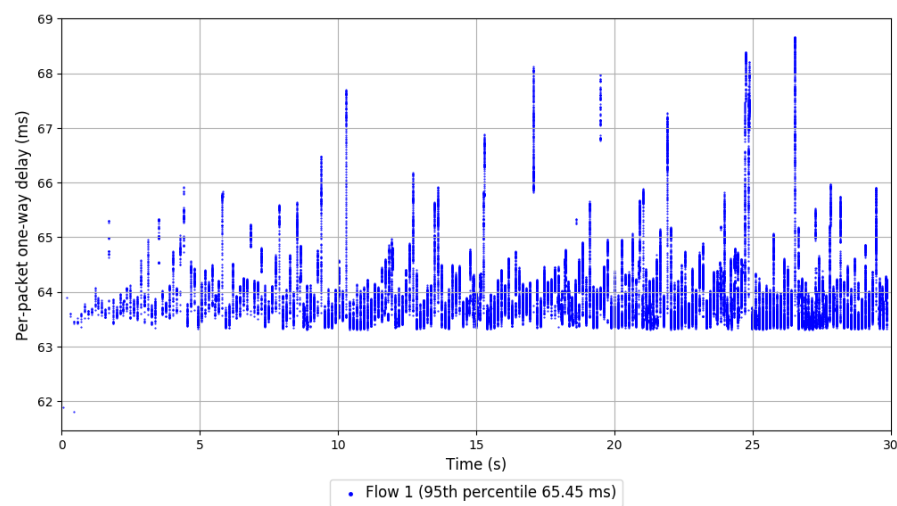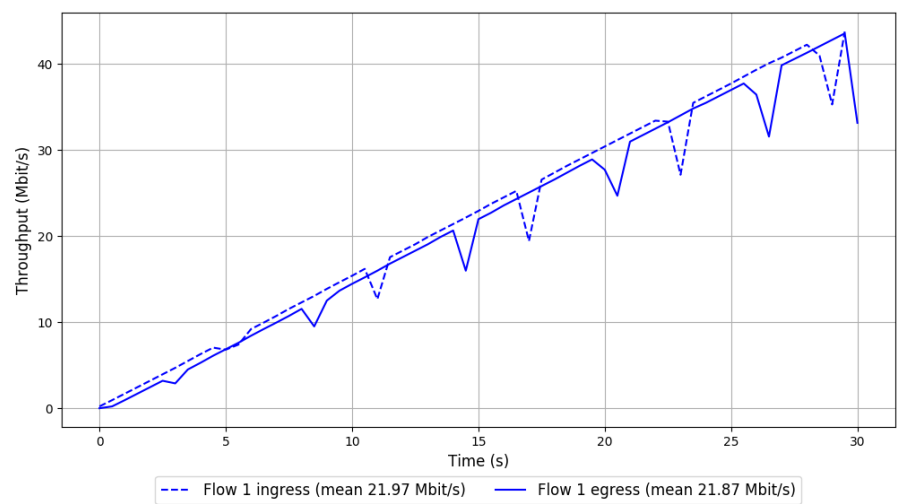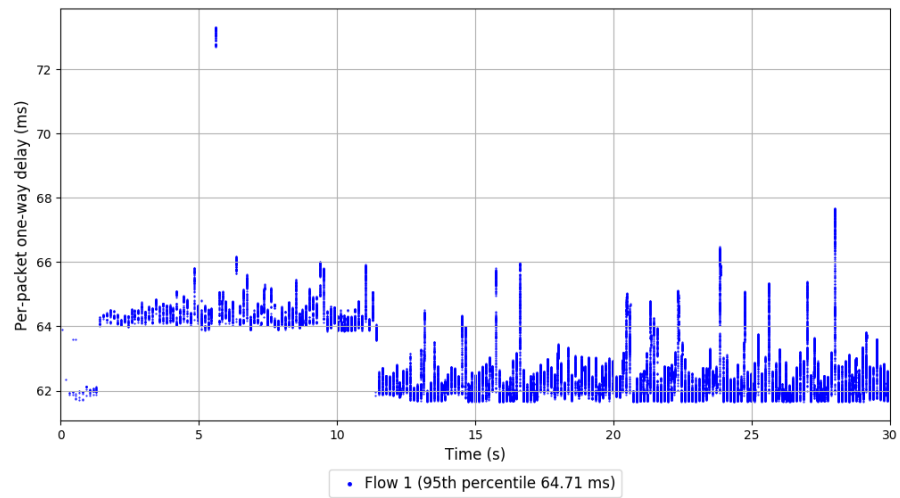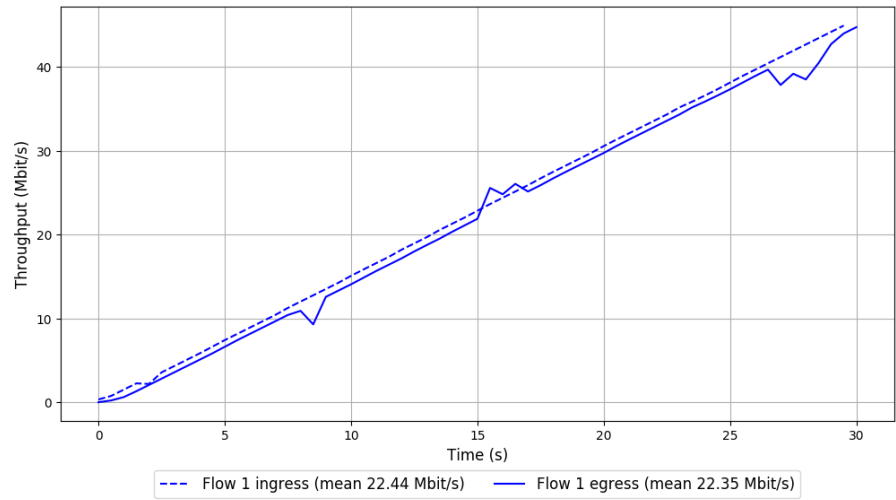# Run 3: Report of LEDBAT — Data Link

```
Run 4: Statistics of LEDBAT

Start at: 2018-06-06 13:42:11
End at: 2018-06-06 13:42:41
Local clock offset: 0.086 ms
Remote clock offset: 0.913 ms

# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.40 Mbit/s
95th percentile per-packet one-way delay: 64.733 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 21.40 Mbit/s
95th percentile per-packet one-way delay: 64.733 ms
Loss rate: 0.86%
```

Run 4: Report of LEDBAT — Data Link

```
Run 5: Statistics of LEDBAT

Start at: 2018-06-06 14:02:26
End at: 2018-06-06 14:02:56
Local clock offset: 0.08 ms
Remote clock offset: -0.072 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.87 Mbit/s
95th percentile per-packet one-way delay: 65.447 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 21.87 Mbit/s
95th percentile per-packet one-way delay: 65.447 ms
Loss rate: 0.85%
```

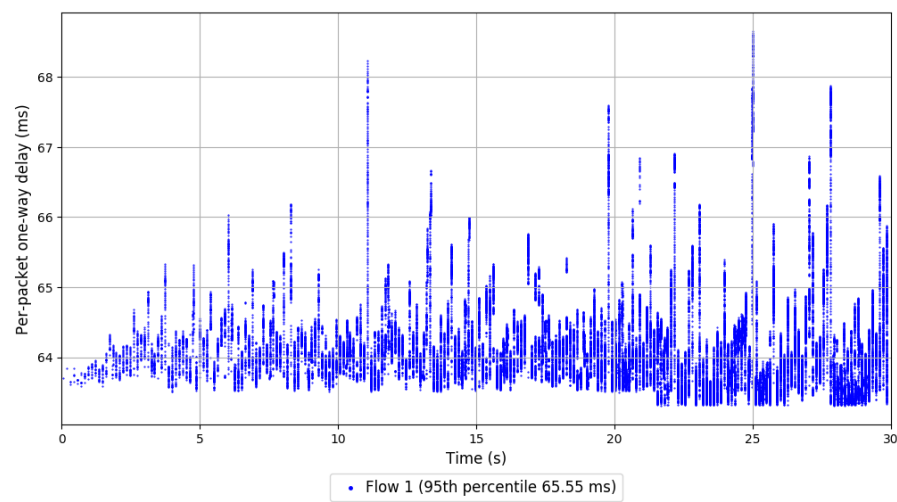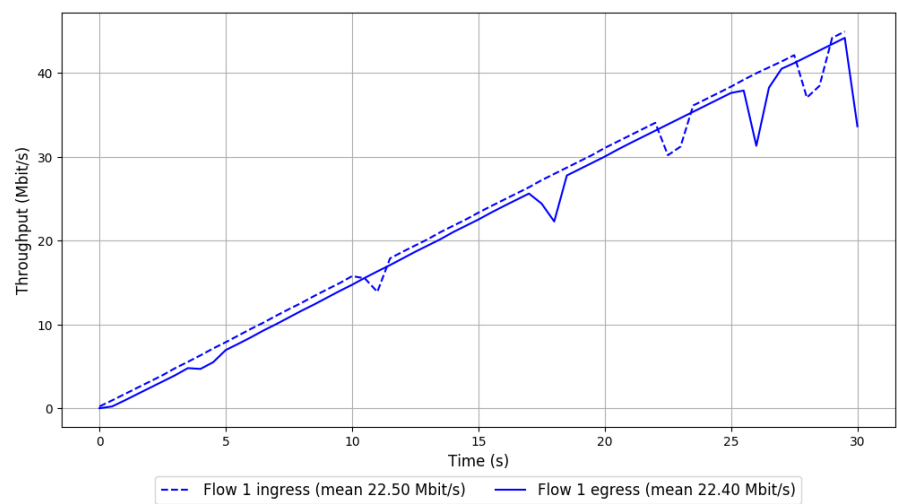Run 5: Report of LEDBAT — Data Link

```
Run 6: Statistics of LEDBAT

Start at: 2018-06-06 14:22:49
End at: 2018-06-06 14:23:19
Local clock offset: 0.034 ms
Remote clock offset: -0.089 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.35 Mbit/s
95th percentile per-packet one-way delay: 64.707 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 22.35 Mbit/s
95th percentile per-packet one-way delay: 64.707 ms
Loss rate: 0.84%
```

Run 6: Report of LEDBAT — Data Link

```
Run 7: Statistics of LEDBAT

Start at: 2018-06-06 14:43:09
End at: 2018-06-06 14:43:39
Local clock offset: -0.169 ms
Remote clock offset: -0.157 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.40 Mbit/s
95th percentile per-packet one-way delay: 65.554 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 22.40 Mbit/s
95th percentile per-packet one-way delay: 65.554 ms
Loss rate: 0.84%
```
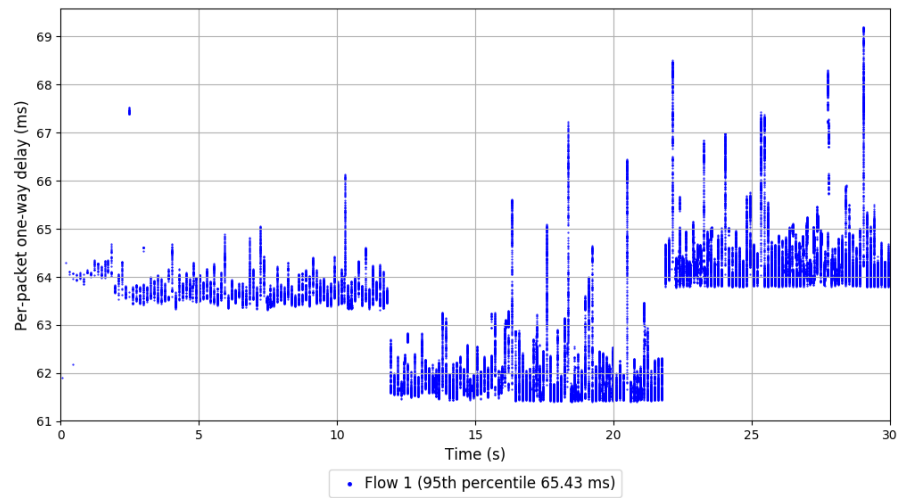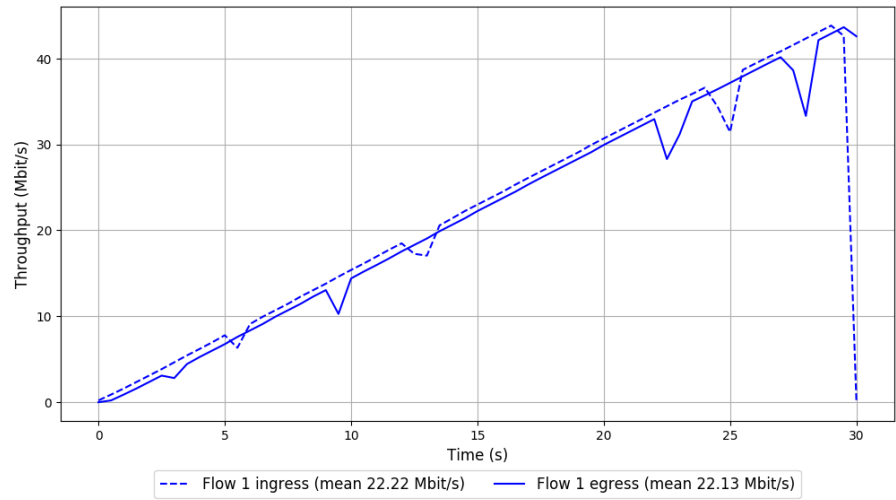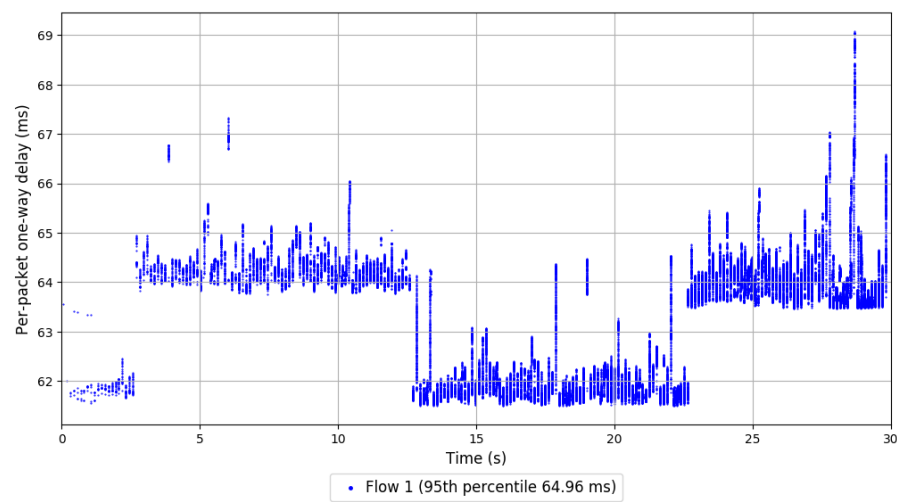
Run 7: Report of LEDBAT — Data Link

Flow 1 ingress (mean 22.50 Mbit/s)   Flow 1 egress (mean 22.40 Mbit/s)

Flow 1 (95th percentile 65.55 ms)

```
Run 8: Statistics of LEDBAT

Start at: 2018-06-06 15:03:49
End at: 2018-06-06 15:04:19
Local clock offset: 0.016 ms
Remote clock offset: -0.14 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.13 Mbit/s
95th percentile per-packet one-way delay: 65.432 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 22.13 Mbit/s
95th percentile per-packet one-way delay: 65.432 ms
Loss rate: 0.84%
```

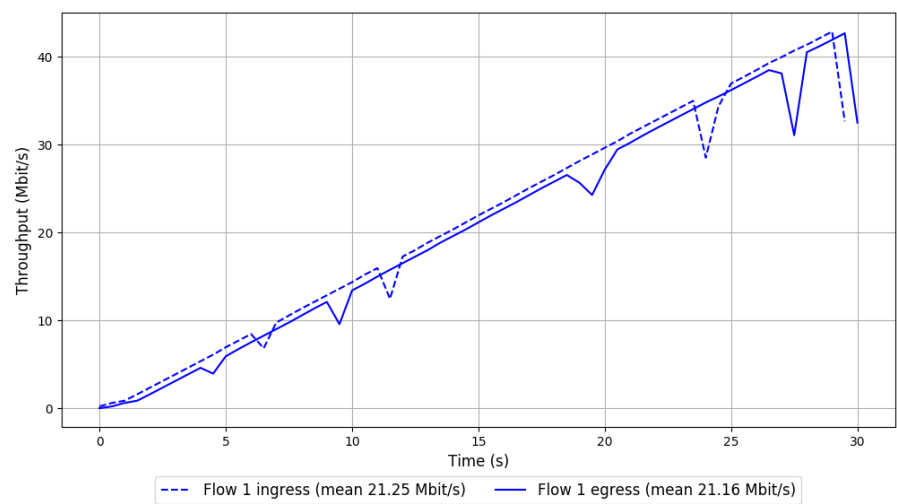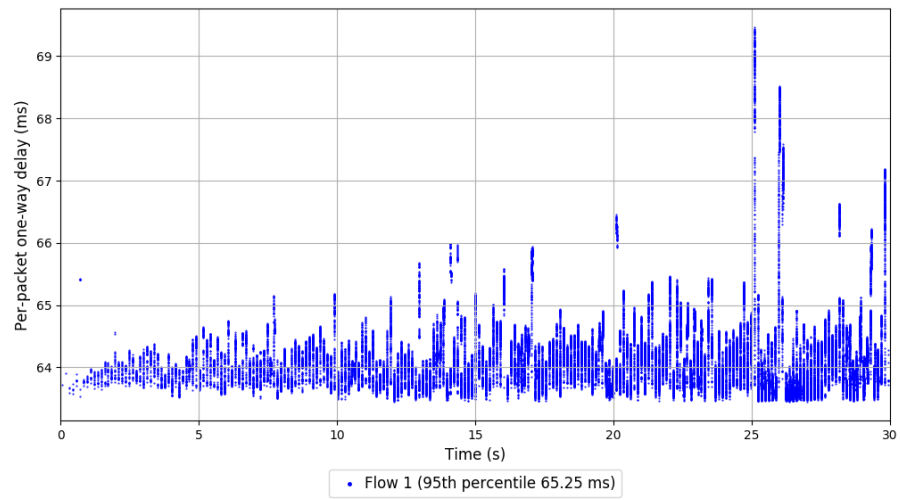## Run 8: Report of LEDBAT — Data Link

```
Run 9: Statistics of LEDBAT

Start at: 2018-06-06 15:24:28
End at: 2018-06-06 15:24:58
Local clock offset: -0.036 ms
Remote clock offset: -0.081 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.16 Mbit/s
95th percentile per-packet one-way delay: 64.958 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 21.16 Mbit/s
95th percentile per-packet one-way delay: 64.958 ms
Loss rate: 0.86%
```

Run 9: Report of LEDBAT — Data Link

Flow 1 ingress (mean 21.25 Mbit/s) --- Flow 1 egress (mean 21.16 Mbit/s)
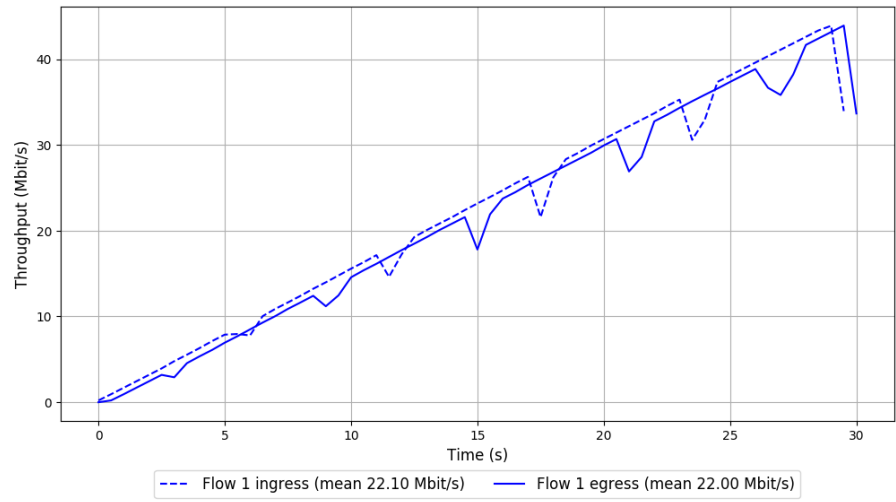

Flow 1 (95th percentile 64.96 ms)

```
Run 10: Statistics of LEDBAT

Start at: 2018-06-06 15:44:50
End at: 2018-06-06 15:45:20
Local clock offset: -0.037 ms
Remote clock offset: -0.079 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 65.252 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 22.00 Mbit/s
95th percentile per-packet one-way delay: 65.252 ms
Loss rate: 0.84%
```

Run 10: Report of LEDBAT — Data Link

```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 12:39:12
End at: 2018-06-06 12:39:42
Local clock offset: -0.03 ms
Remote clock offset: -0.434 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 515.90 Mbit/s
95th percentile per-packet one-way delay: 191.029 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 515.90 Mbit/s
95th percentile per-packet one-way delay: 191.029 ms
Loss rate: 1.40%
```
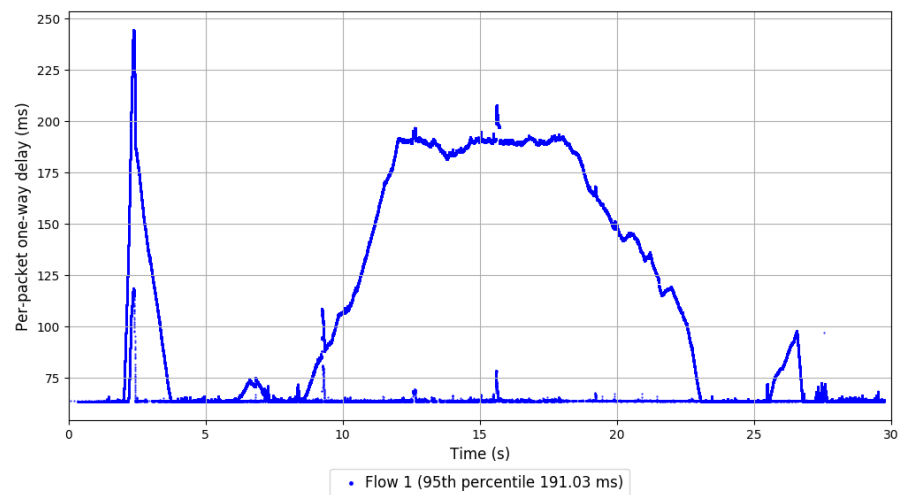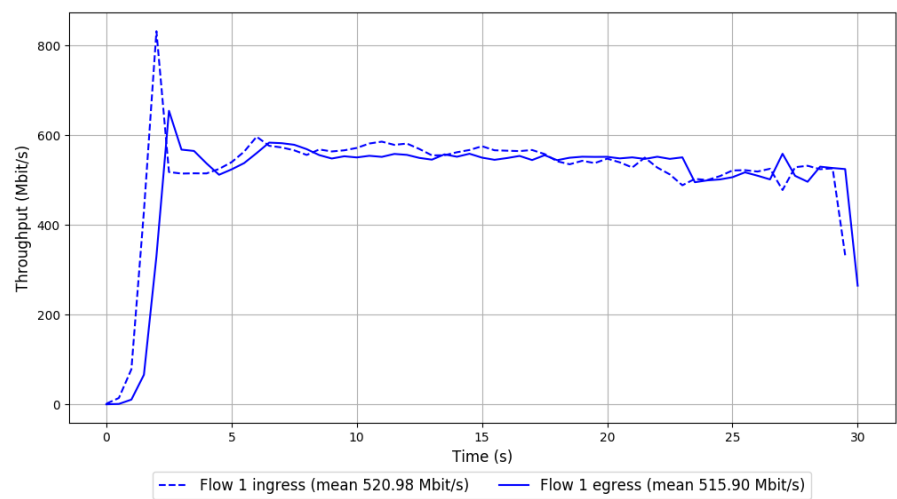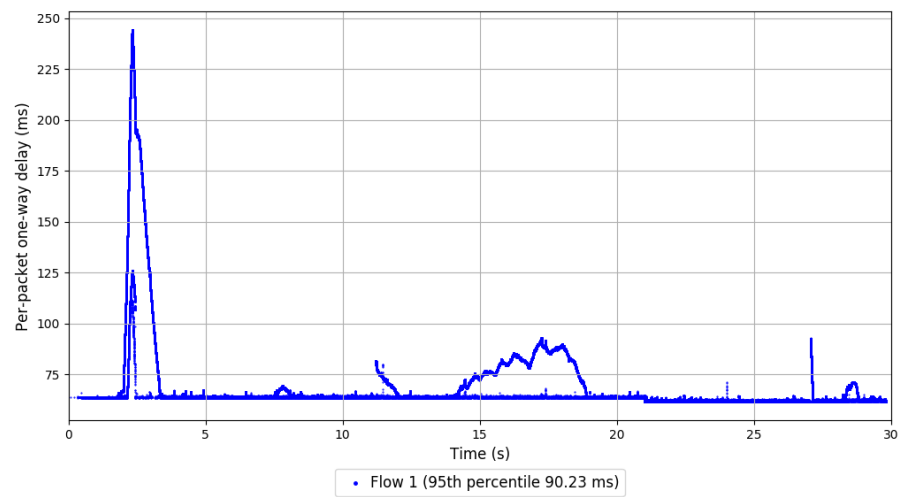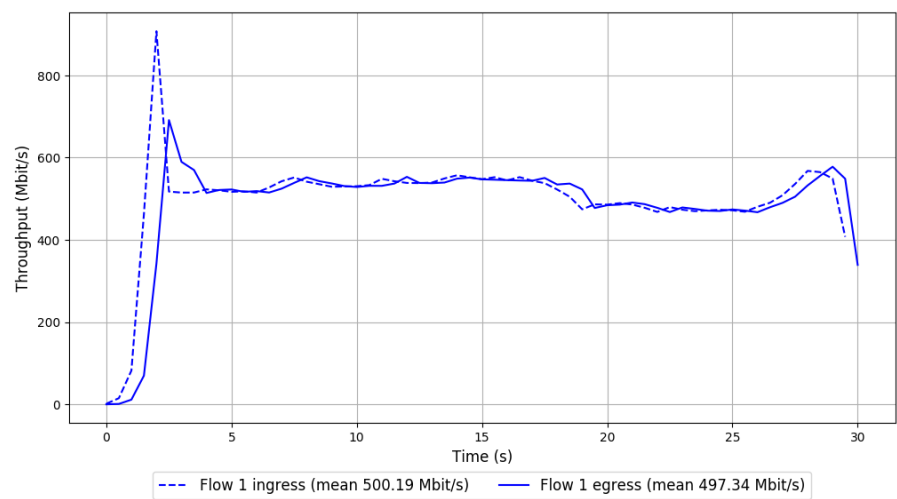
Run 1: Report of PCC-Allegro — Data Link

```
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 12:59:39
End at: 2018-06-06 13:00:09
Local clock offset: -0.028 ms
Remote clock offset: -0.101 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 497.34 Mbit/s
95th percentile per-packet one-way delay: 90.228 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 497.34 Mbit/s
95th percentile per-packet one-way delay: 90.228 ms
Loss rate: 0.99%
```

Run 2: Report of PCC-Allegro — Data Link

```
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 13:20:14
End at: 2018-06-06 13:20:44
Local clock offset: -0.024 ms
Remote clock offset: -0.109 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 424.69 Mbit/s
95th percentile per-packet one-way delay: 193.607 ms
Loss rate: 2.01%
-- Flow 1:
Average throughput: 424.69 Mbit/s
95th percentile per-packet one-way delay: 193.607 ms
Loss rate: 2.01%
```
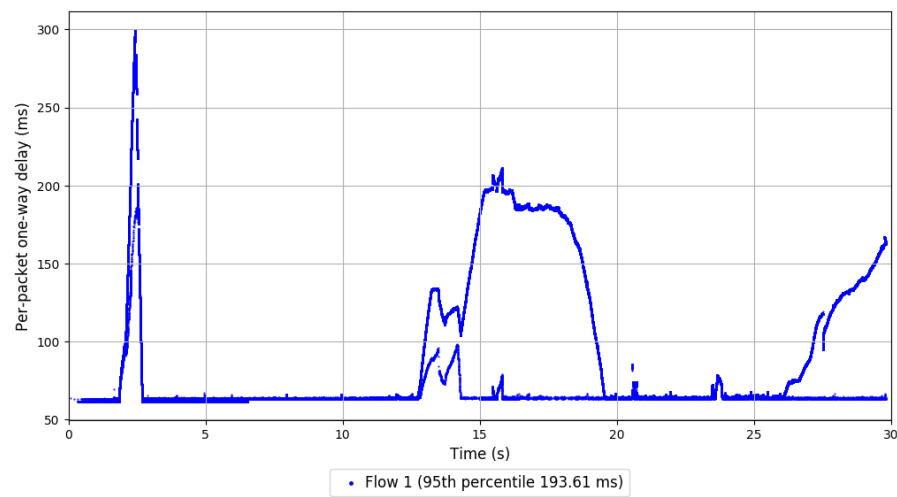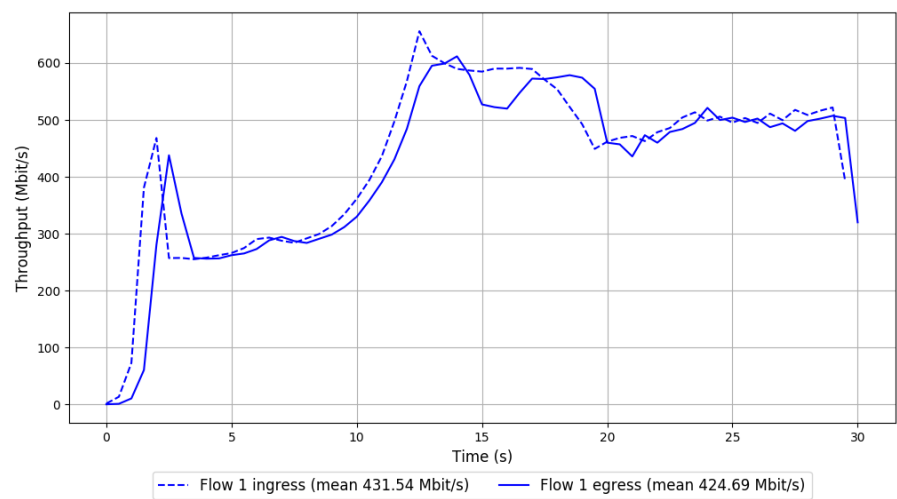
Run 3: Report of PCC-Allegro — Data Link

```
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 13:40:47
End at: 2018-06-06 13:41:17
Local clock offset: 0.08 ms
Remote clock offset: -0.963 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 479.12 Mbit/s
95th percentile per-packet one-way delay: 127.822 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 479.12 Mbit/s
95th percentile per-packet one-way delay: 127.822 ms
Loss rate: 0.83%
```
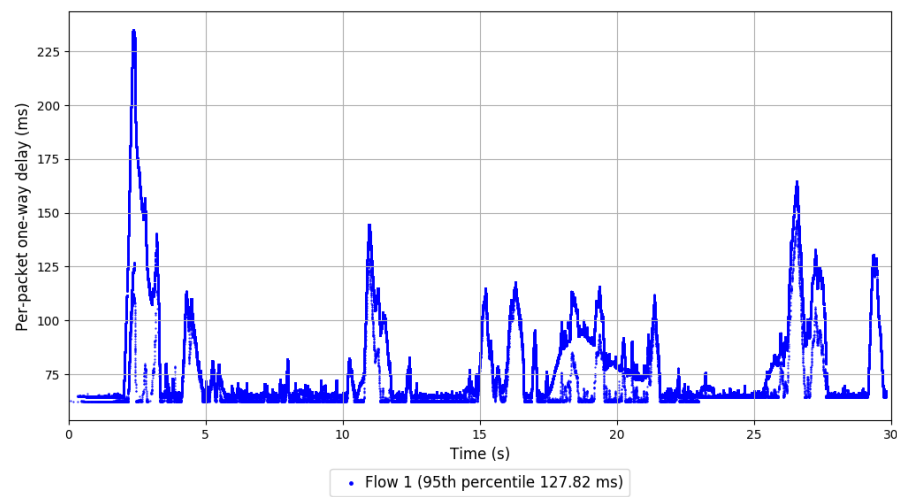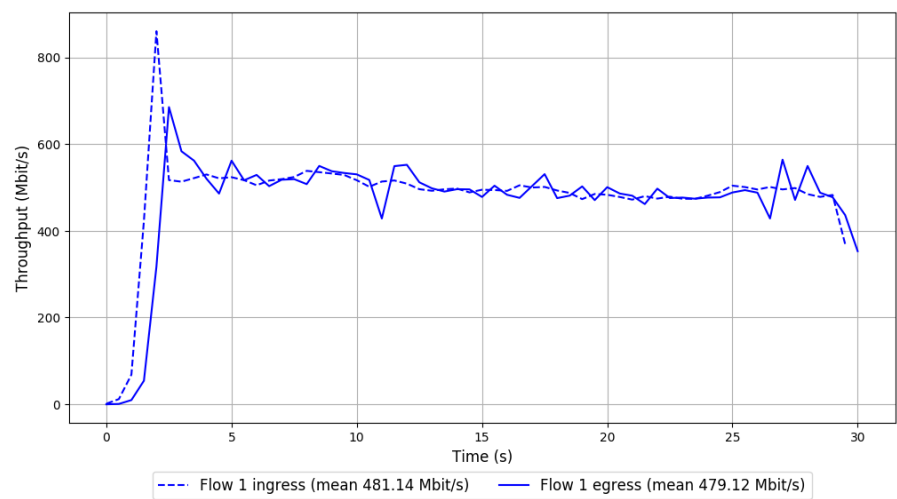
Run 4: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 481.14 Mbit/s)   Flow 1 egress (mean 479.12 Mbit/s)

Flow 1 (95th percentile 127.82 ms)

```
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 14:01:02
End at: 2018-06-06 14:01:32
Local clock offset: 0.073 ms
Remote clock offset: -0.112 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 489.98 Mbit/s
95th percentile per-packet one-way delay: 147.168 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 489.98 Mbit/s
95th percentile per-packet one-way delay: 147.168 ms
Loss rate: 0.97%
```
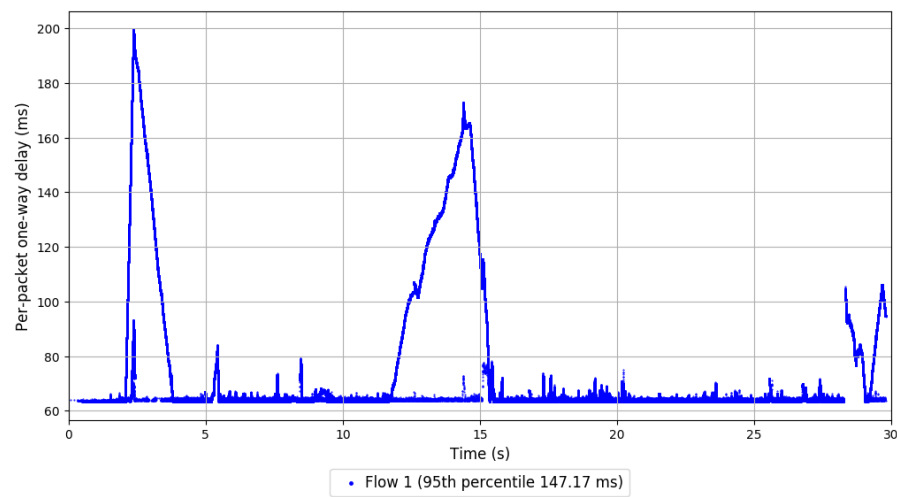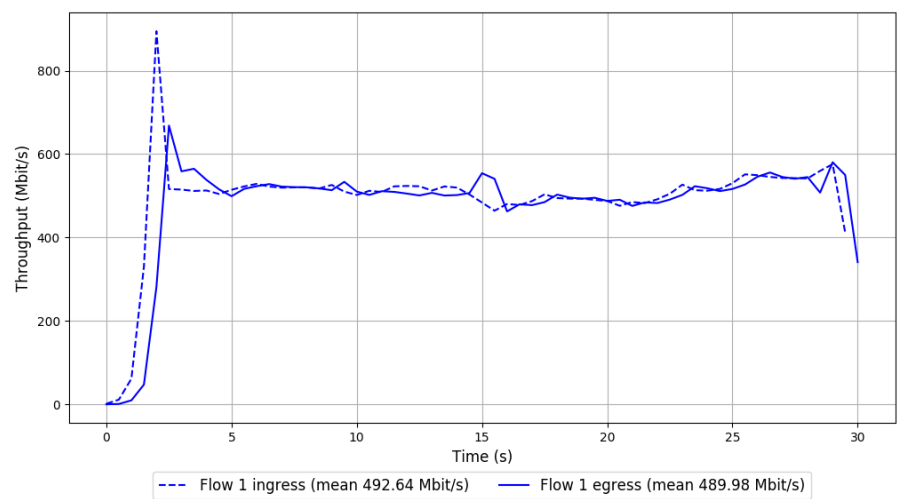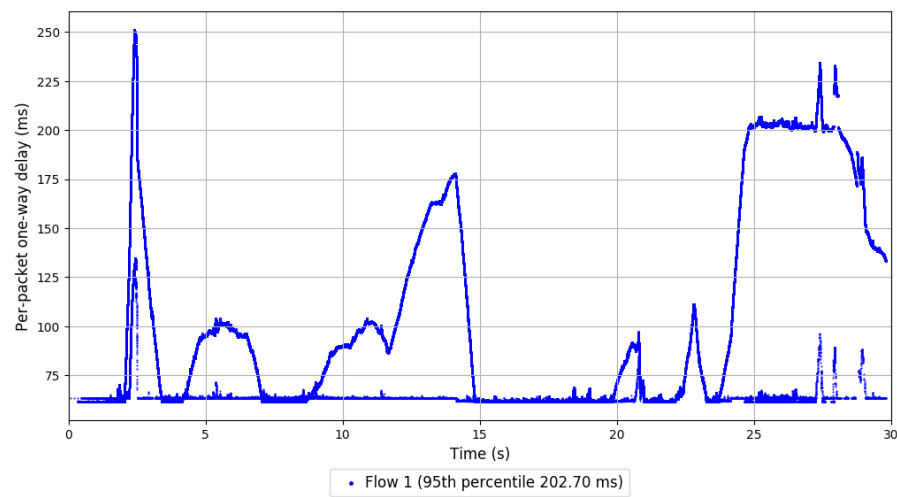
Run 5: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 492.64 Mbit/s) ——— Flow 1 egress (mean 489.98 Mbit/s)

• Flow 1 (95th percentile 147.17 ms)

```
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 14:21:26
End at: 2018-06-06 14:21:56
Local clock offset: -0.064 ms
Remote clock offset: -0.092 ms


# Below is generated by plot.py at 2018-06-06 16:48:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.14 Mbit/s
95th percentile per-packet one-way delay: 202.697 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 467.14 Mbit/s
95th percentile per-packet one-way delay: 202.697 ms
Loss rate: 2.05%
```
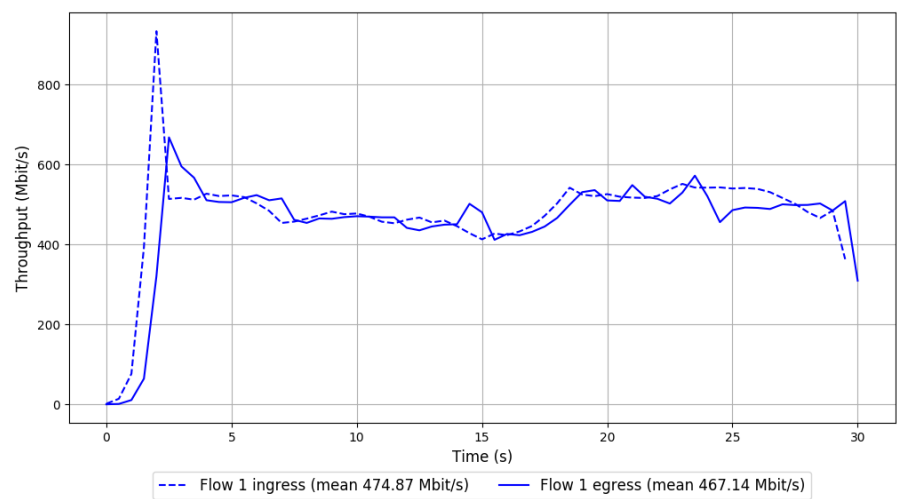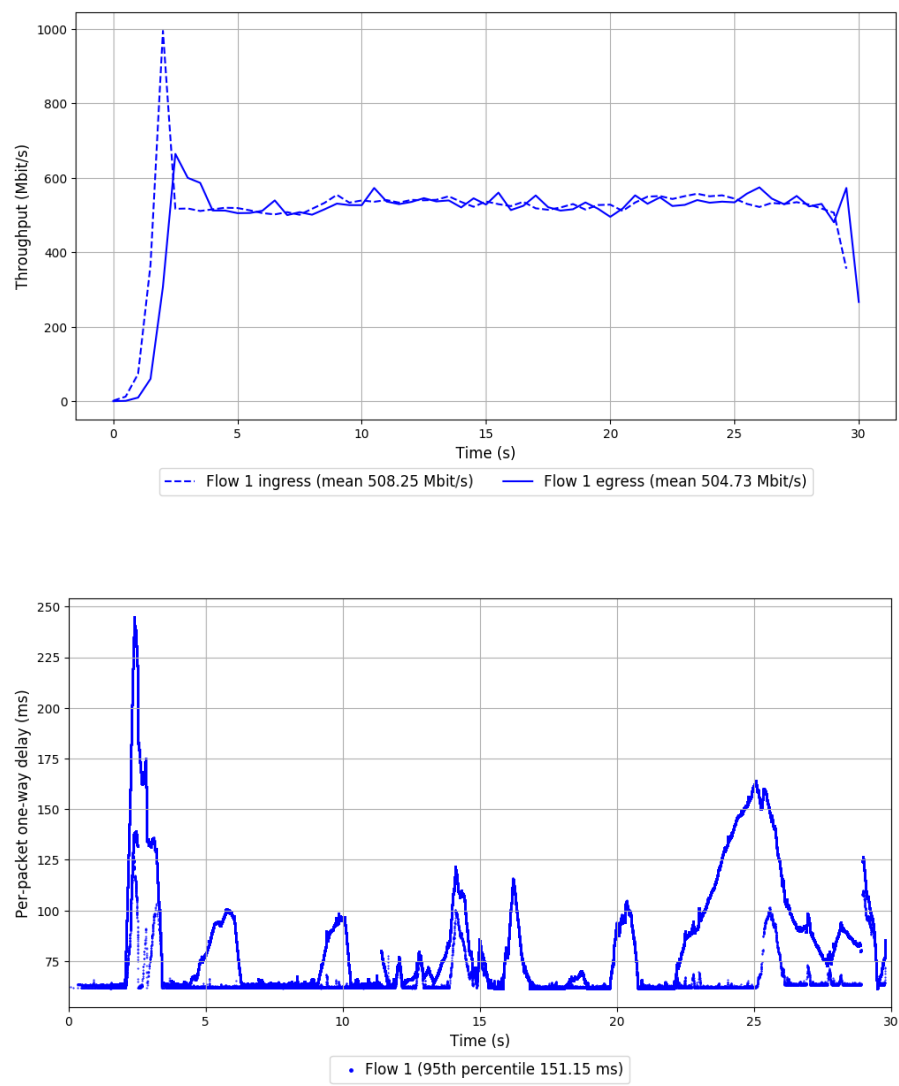
Run 6: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 474.87 Mbit/s)   Flow 1 egress (mean 467.14 Mbit/s)

• Flow 1 (95th percentile 202.70 ms)

```
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 14:41:45
End at: 2018-06-06 14:42:15
Local clock offset: -0.027 ms
Remote clock offset: 0.066 ms


# Below is generated by plot.py at 2018-06-06 16:55:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 504.73 Mbit/s
95th percentile per-packet one-way delay: 151.147 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 504.73 Mbit/s
95th percentile per-packet one-way delay: 151.147 ms
Loss rate: 1.11%
```

Run 7: Report of PCC-Allegro — Data Link

```
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 15:02:24
End at: 2018-06-06 15:02:54
Local clock offset: -0.037 ms
Remote clock offset: 0.135 ms


# Below is generated by plot.py at 2018-06-06 16:55:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 516.78 Mbit/s
95th percentile per-packet one-way delay: 174.649 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 516.78 Mbit/s
95th percentile per-packet one-way delay: 174.649 ms
Loss rate: 1.66%
```
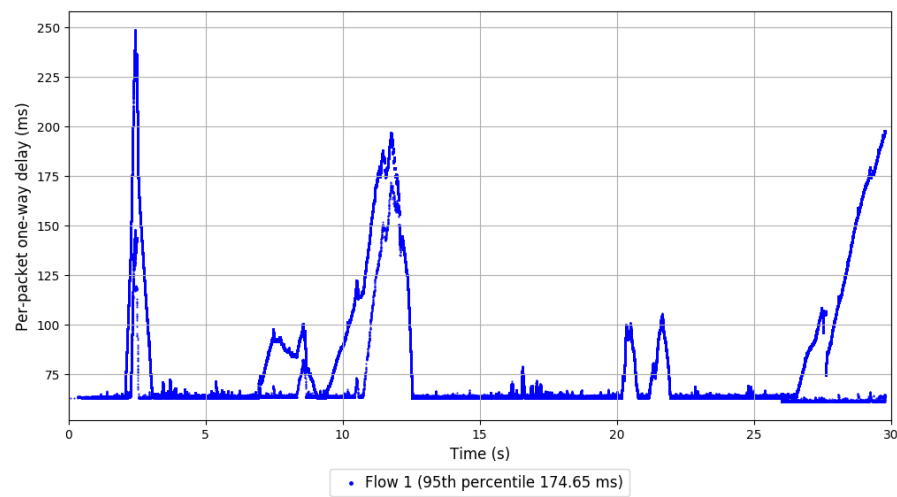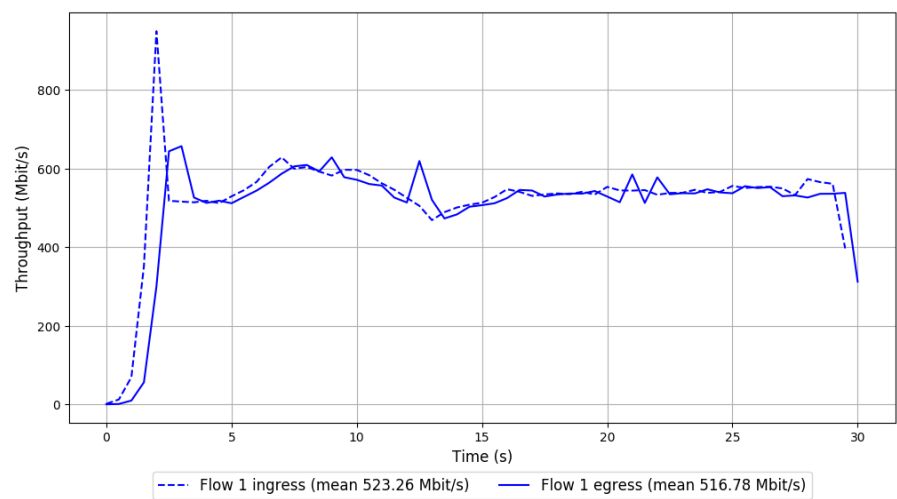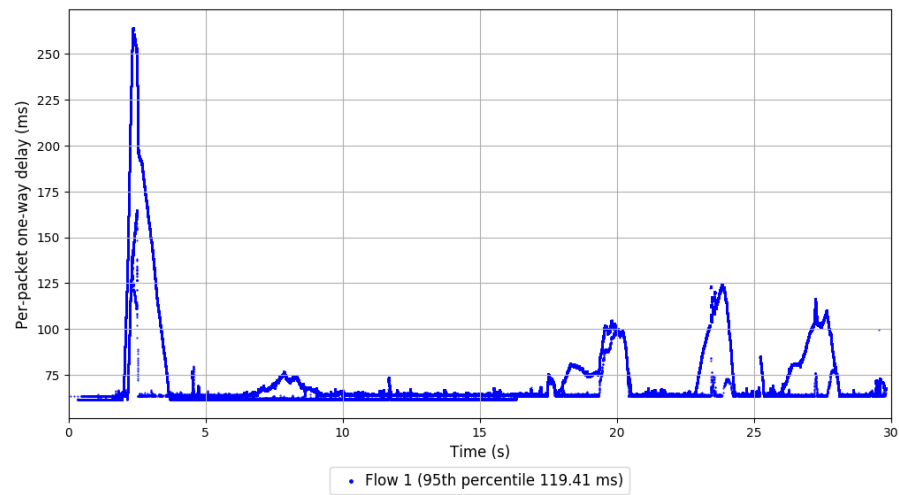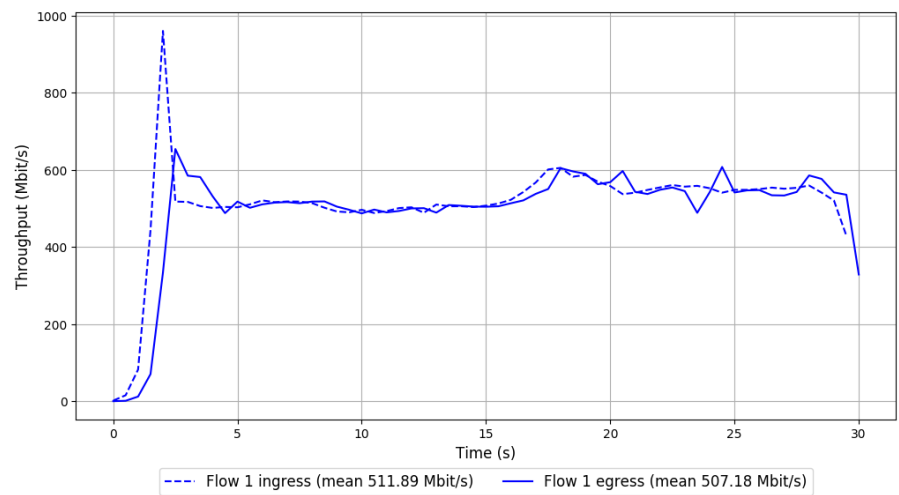
Run 8: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 523.26 Mbit/s) — Flow 1 egress (mean 516.78 Mbit/s)

• Flow 1 (95th percentile 174.65 ms)

```
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 15:23:04
End at: 2018-06-06 15:23:34
Local clock offset: -0.035 ms
Remote clock offset: -0.11 ms


# Below is generated by plot.py at 2018-06-06 16:56:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 507.18 Mbit/s
95th percentile per-packet one-way delay: 119.412 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 507.18 Mbit/s
95th percentile per-packet one-way delay: 119.412 ms
Loss rate: 1.35%
```
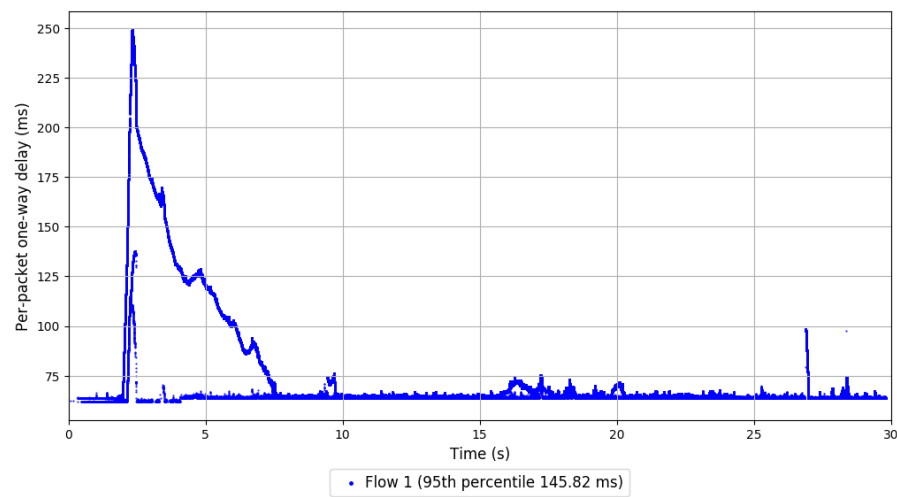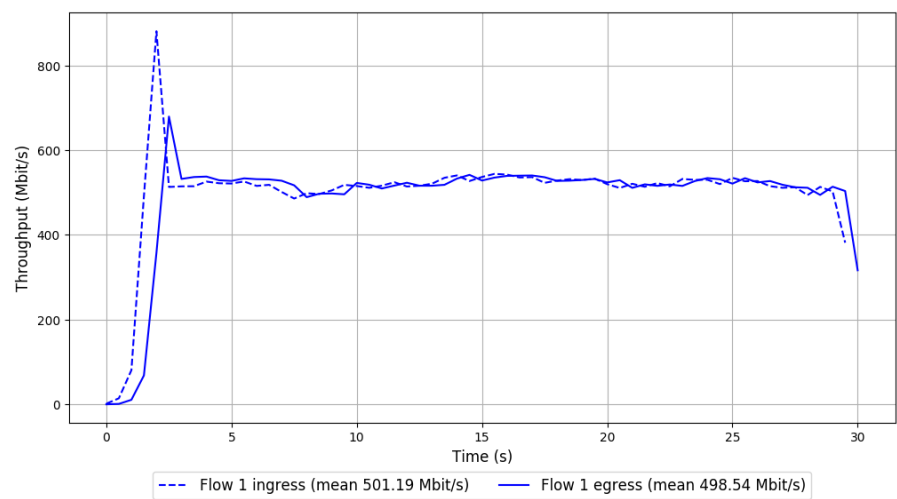
Run 9: Report of PCC-Allegro — Data Link

```
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 15:43:26
End at: 2018-06-06 15:43:56
Local clock offset: -0.058 ms
Remote clock offset: -0.263 ms


# Below is generated by plot.py at 2018-06-06 16:56:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 498.54 Mbit/s
95th percentile per-packet one-way delay: 145.816 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 498.54 Mbit/s
95th percentile per-packet one-way delay: 145.816 ms
Loss rate: 0.95%
```

Run 10: Report of PCC-Allegro — Data Link

Flow 1 ingress (mean 501.19 Mbit/s)   Flow 1 egress (mean 498.54 Mbit/s)
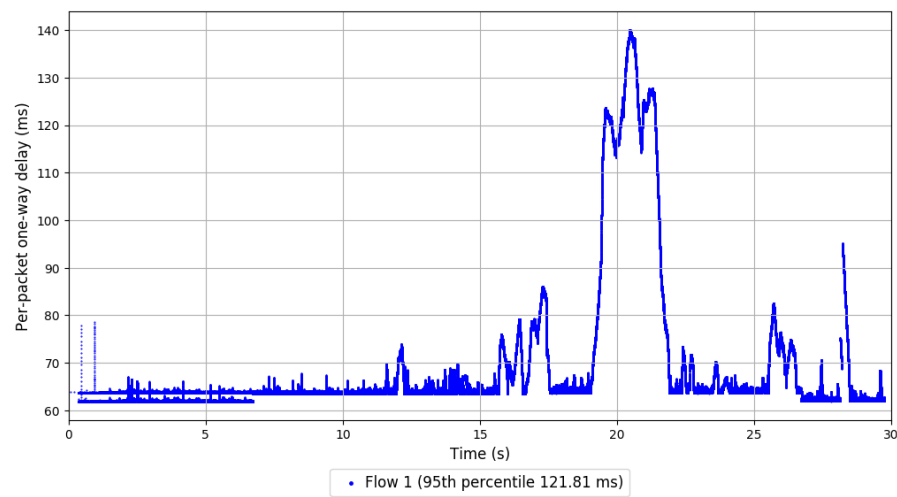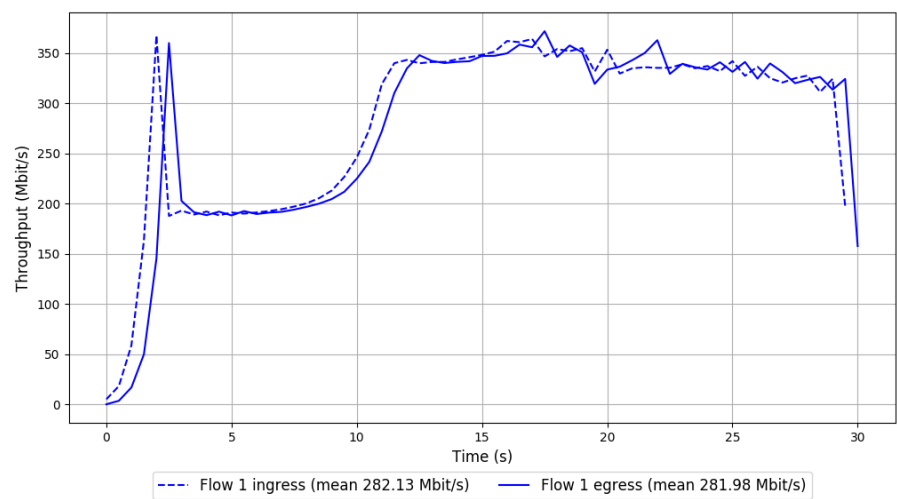

Flow 1 (95th percentile 145.82 ms)

```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 12:33:54
End at: 2018-06-06 12:34:24
Local clock offset: 0.019 ms
Remote clock offset: -0.372 ms


# Below is generated by plot.py at 2018-06-06 16:56:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 281.98 Mbit/s
95th percentile per-packet one-way delay: 121.806 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 281.98 Mbit/s
95th percentile per-packet one-way delay: 121.806 ms
Loss rate: 0.47%
```
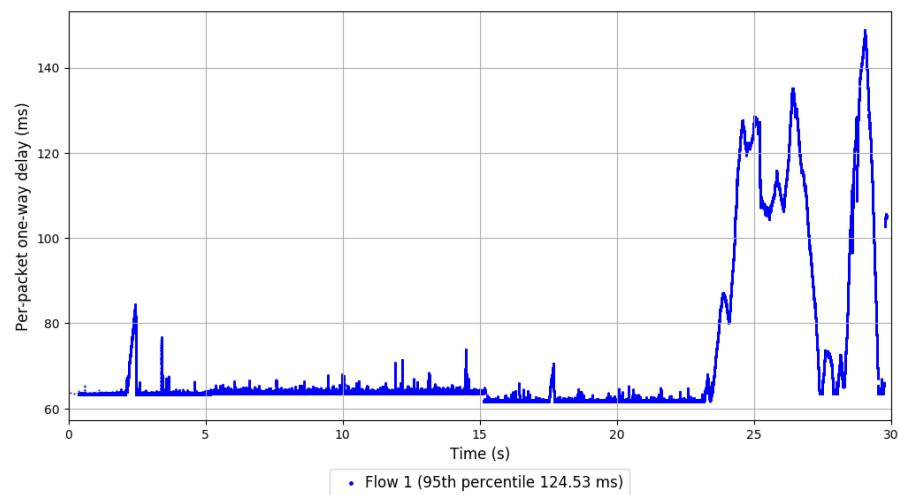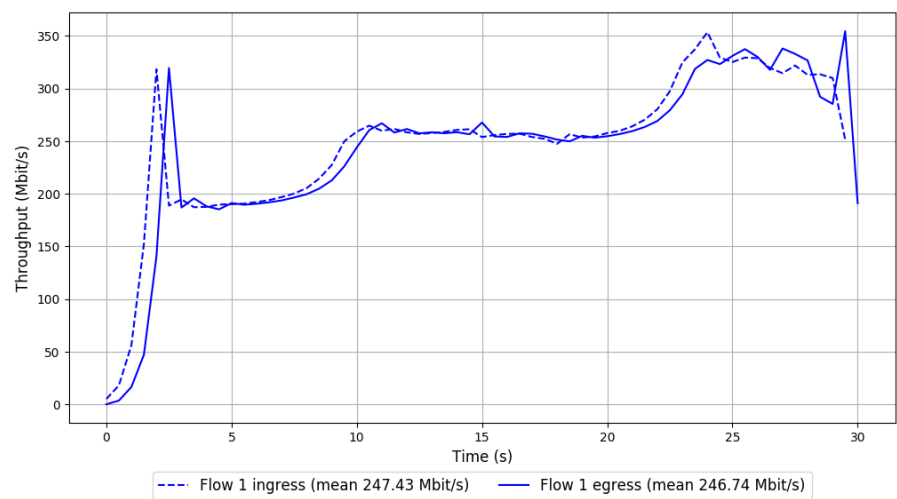
Run 1: Report of PCC-Expr — Data Link

```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 12:54:15
End at: 2018-06-06 12:54:45
Local clock offset: -0.003 ms
Remote clock offset: -0.192 ms


# Below is generated by plot.py at 2018-06-06 16:56:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.74 Mbit/s
95th percentile per-packet one-way delay: 124.534 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 246.74 Mbit/s
95th percentile per-packet one-way delay: 124.534 ms
Loss rate: 0.71%
```

Run 2: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 247.43 Mbit/s)   Flow 1 egress (mean 246.74 Mbit/s)
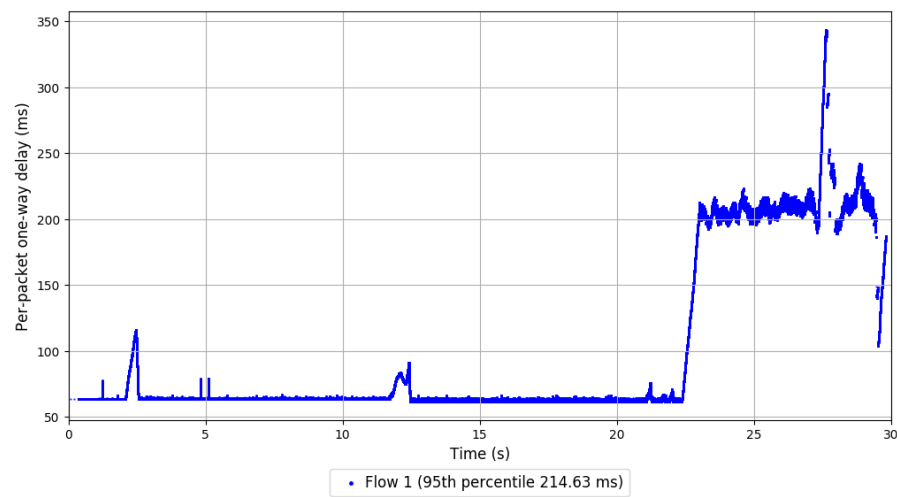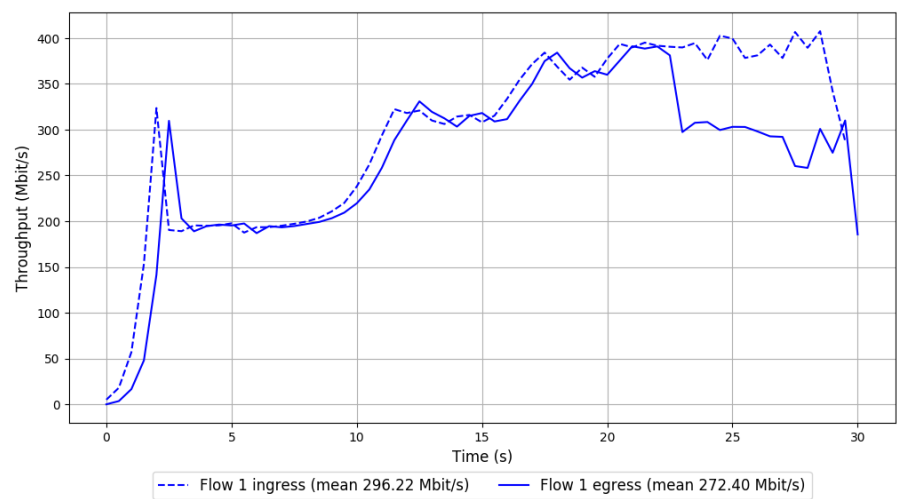

Flow 1 (95th percentile 124.53 ms)

```
Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 13:14:48
End at: 2018-06-06 13:15:18
Local clock offset: 0.007 ms
Remote clock offset: -0.098 ms


# Below is generated by plot.py at 2018-06-06 16:56:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 272.40 Mbit/s
95th percentile per-packet one-way delay: 214.635 ms
Loss rate: 8.43%
-- Flow 1:
Average throughput: 272.40 Mbit/s
95th percentile per-packet one-way delay: 214.635 ms
Loss rate: 8.43%
```
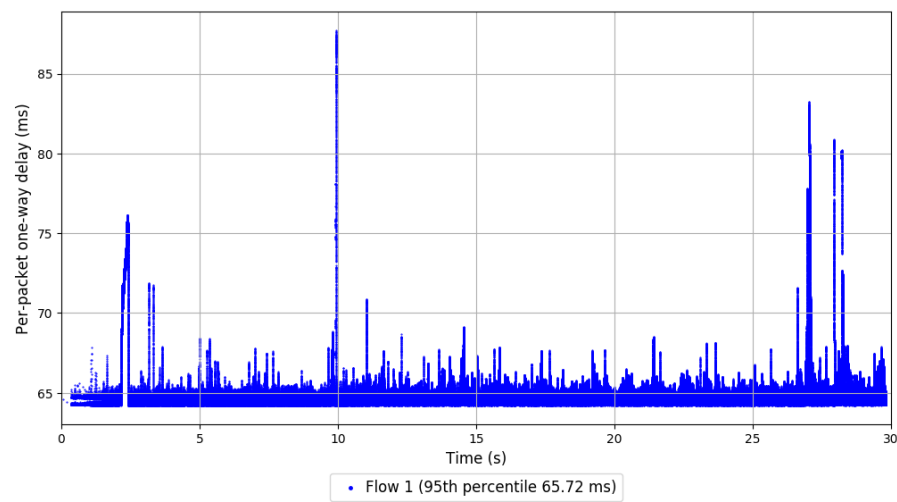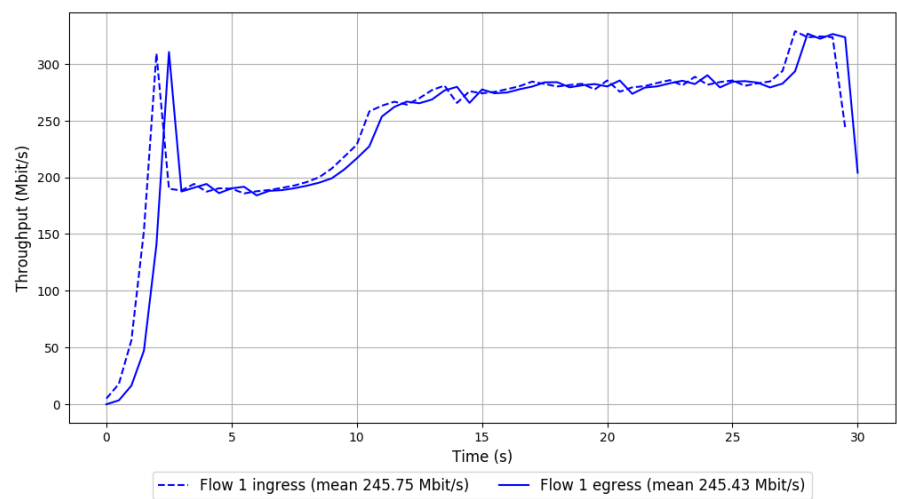
Run 3: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 296.22 Mbit/s)   Flow 1 egress (mean 272.40 Mbit/s)

Flow 1 (95th percentile 214.63 ms)

```
Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 13:35:24
End at: 2018-06-06 13:35:54
Local clock offset: 0.065 ms
Remote clock offset: -1.105 ms


# Below is generated by plot.py at 2018-06-06 16:57:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.43 Mbit/s
95th percentile per-packet one-way delay: 65.716 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 245.43 Mbit/s
95th percentile per-packet one-way delay: 65.716 ms
Loss rate: 0.56%
```
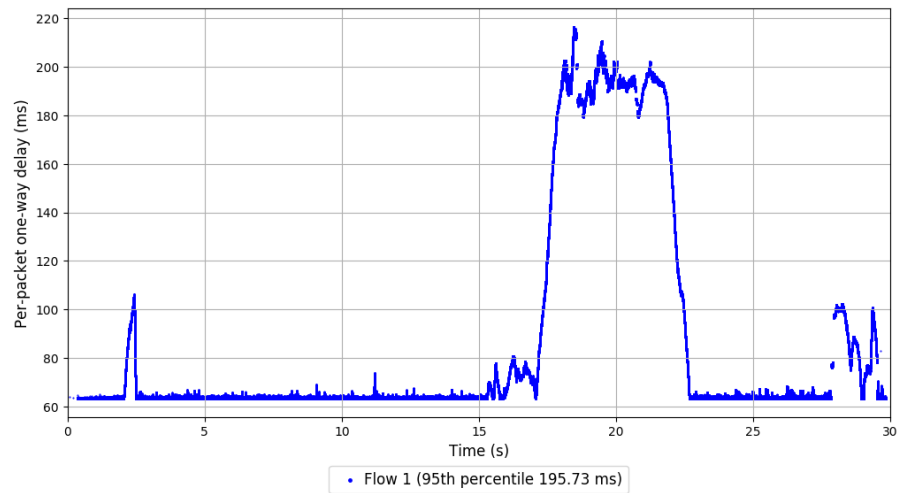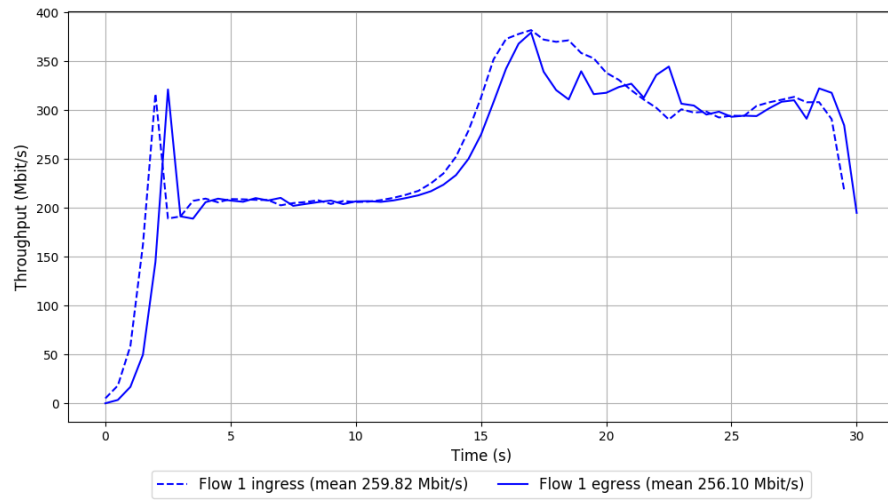
Run 4: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 245.75 Mbit/s) --- Flow 1 egress (mean 245.43 Mbit/s)

• Flow 1 (95th percentile 65.72 ms)

```
Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 13:55:53
End at: 2018-06-06 13:56:23
Local clock offset: 0.133 ms
Remote clock offset: 0.048 ms


# Below is generated by plot.py at 2018-06-06 17:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.10 Mbit/s
95th percentile per-packet one-way delay: 195.727 ms
Loss rate: 1.85%
-- Flow 1:
Average throughput: 256.10 Mbit/s
95th percentile per-packet one-way delay: 195.727 ms
Loss rate: 1.85%
```
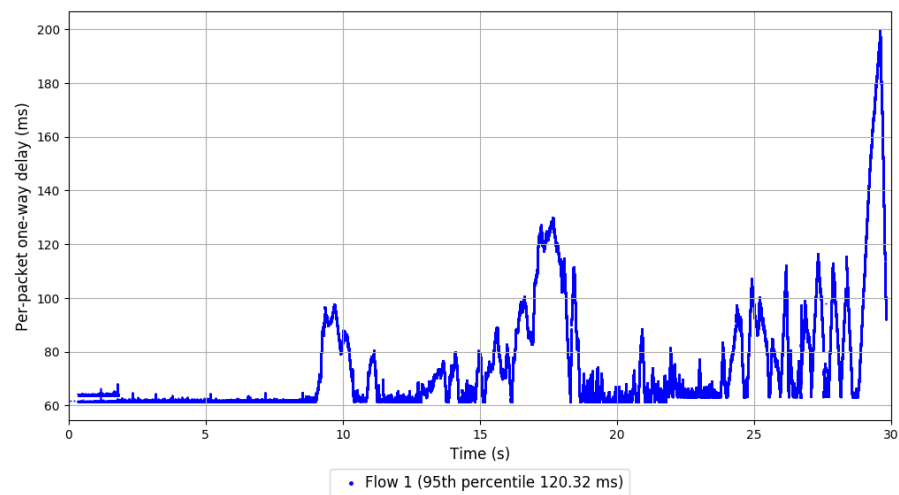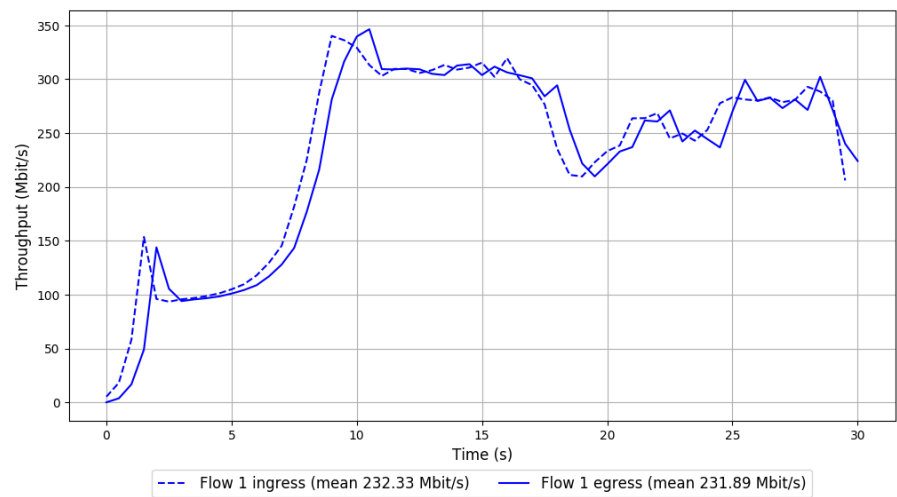
Run 5: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 259.82 Mbit/s) --- Flow 1 egress (mean 256.10 Mbit/s)
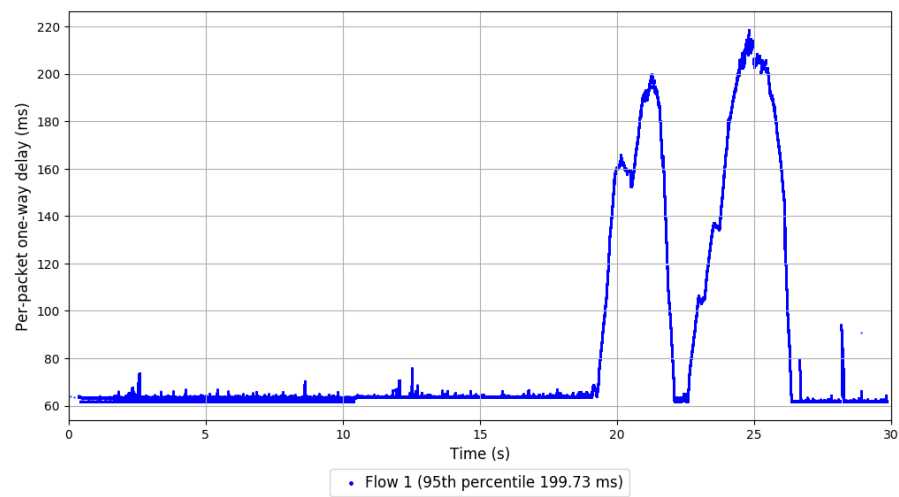

• Flow 1 (95th percentile 195.73 ms)

```
Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 14:16:09
End at: 2018-06-06 14:16:39
Local clock offset: -0.044 ms
Remote clock offset: -0.13 ms


# Below is generated by plot.py at 2018-06-06 17:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.89 Mbit/s
95th percentile per-packet one-way delay: 120.322 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 231.89 Mbit/s
95th percentile per-packet one-way delay: 120.322 ms
Loss rate: 0.61%
```

Run 6: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 232.33 Mbit/s)   Flow 1 egress (mean 231.89 Mbit/s)
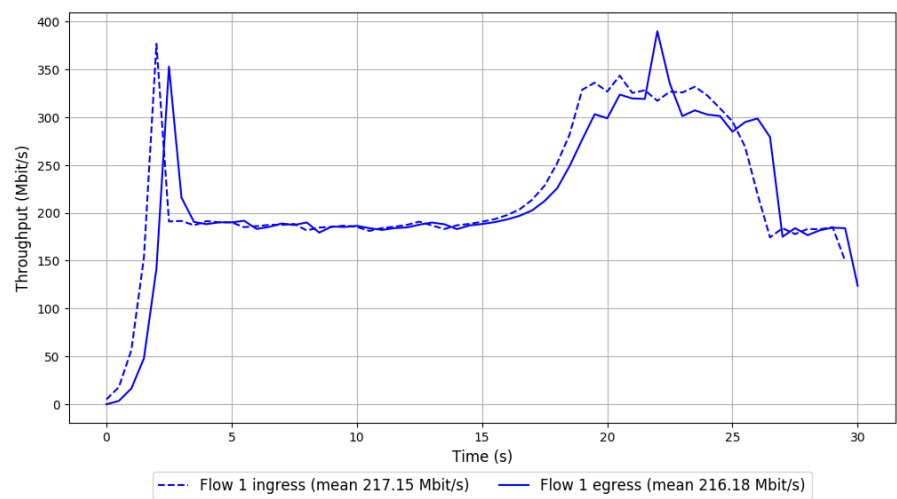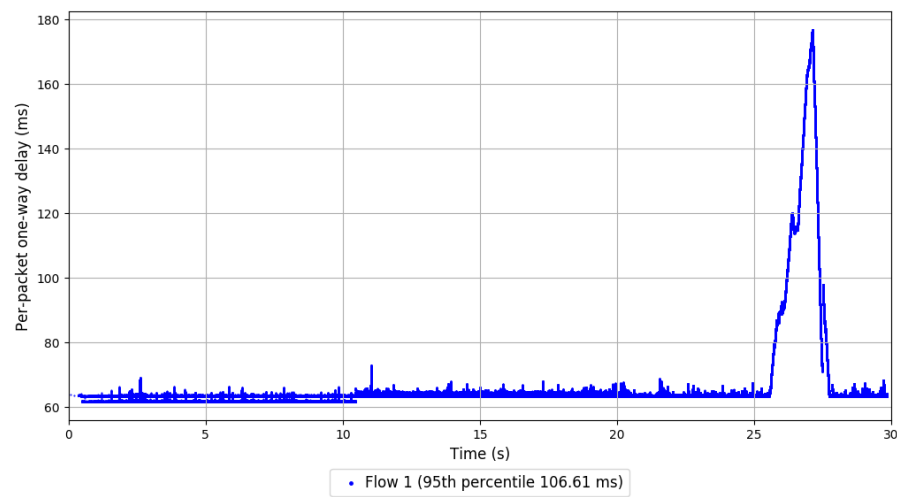

Flow 1 (95th percentile 120.32 ms)

```
Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 14:36:30
End at: 2018-06-06 14:37:00
Local clock offset: -0.02 ms
Remote clock offset: -0.235 ms


# Below is generated by plot.py at 2018-06-06 17:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.18 Mbit/s
95th percentile per-packet one-way delay: 199.734 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 216.18 Mbit/s
95th percentile per-packet one-way delay: 199.734 ms
Loss rate: 0.87%
```

Run 7: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 217.15 Mbit/s)   Flow 1 egress (mean 216.18 Mbit/s)
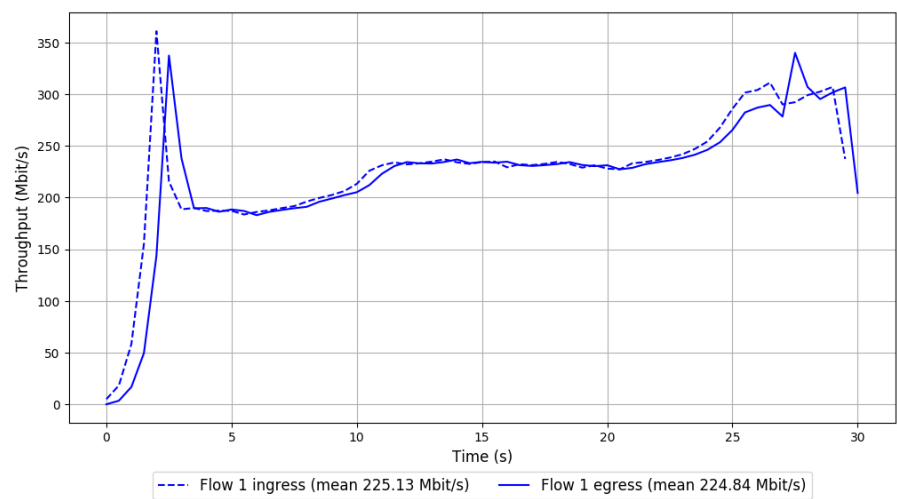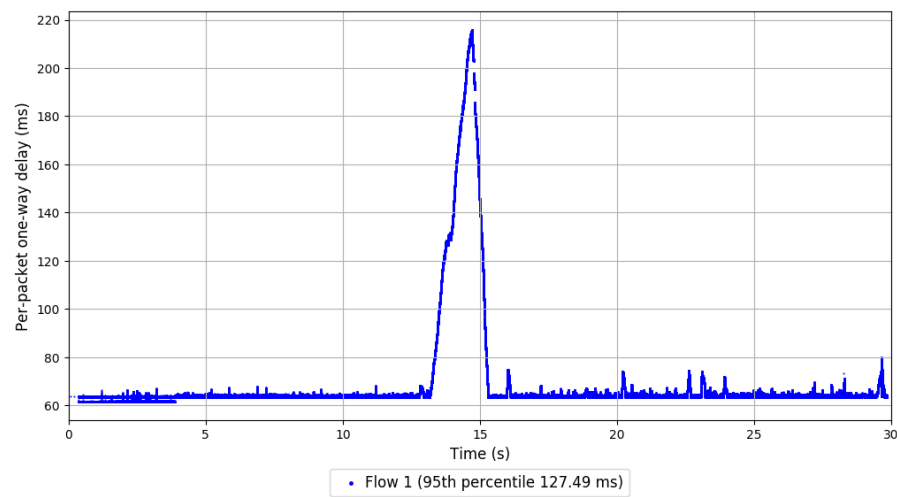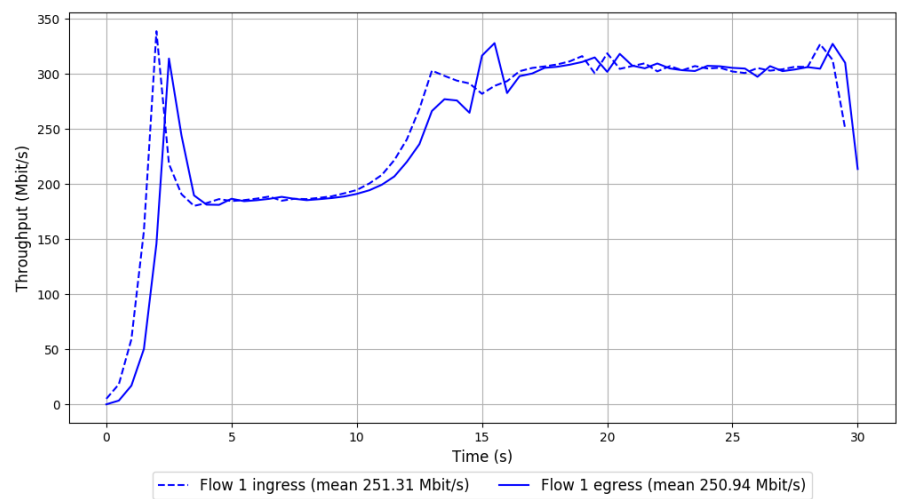

Flow 1 (95th percentile 199.73 ms)

```
Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 14:57:00
End at: 2018-06-06 14:57:30
Local clock offset: -0.009 ms
Remote clock offset: -0.143 ms


# Below is generated by plot.py at 2018-06-06 17:04:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.84 Mbit/s
95th percentile per-packet one-way delay: 106.610 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 224.84 Mbit/s
95th percentile per-packet one-way delay: 106.610 ms
Loss rate: 0.54%
```

Run 8: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 225.13 Mbit/s)   Flow 1 egress (mean 224.84 Mbit/s)

Flow 1 (95th percentile 106.61 ms)

```
Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 15:17:37
End at: 2018-06-06 15:18:07
Local clock offset: -0.03 ms
Remote clock offset: -0.094 ms


# Below is generated by plot.py at 2018-06-06 17:04:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.94 Mbit/s
95th percentile per-packet one-way delay: 127.492 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 250.94 Mbit/s
95th percentile per-packet one-way delay: 127.492 ms
Loss rate: 0.57%
```
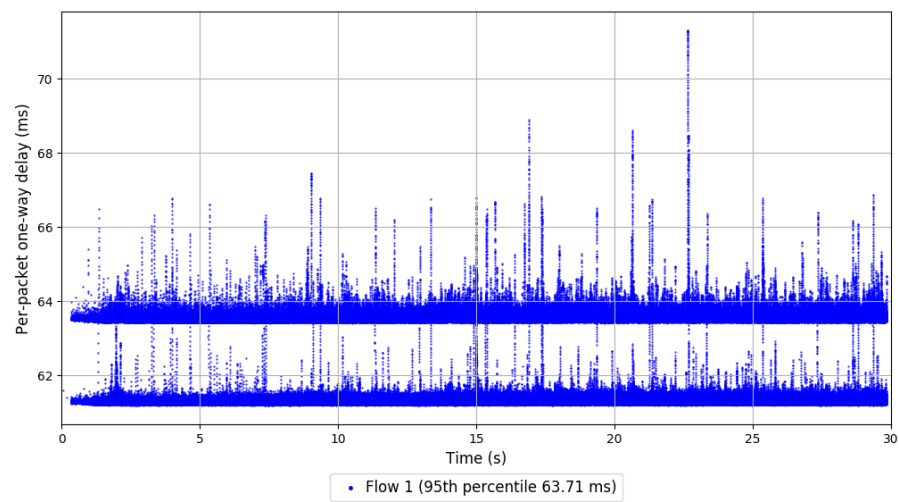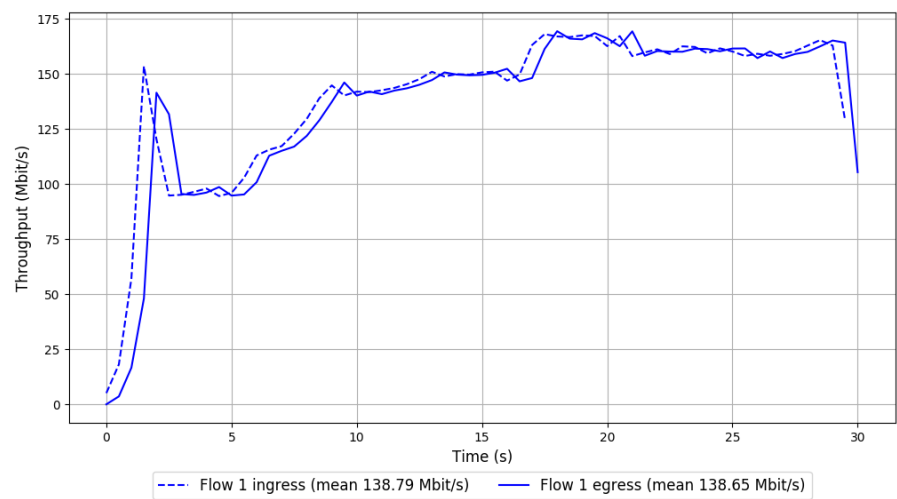
Run 9: Report of PCC-Expr — Data Link

Flow 1 ingress (mean 251.31 Mbit/s)   Flow 1 egress (mean 250.94 Mbit/s)

Flow 1 (95th percentile 127.49 ms)

```
Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 15:38:12
End at: 2018-06-06 15:38:42
Local clock offset: -0.019 ms
Remote clock offset: 0.277 ms


# Below is generated by plot.py at 2018-06-06 17:04:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.65 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 138.65 Mbit/s
95th percentile per-packet one-way delay: 63.708 ms
Loss rate: 0.52%
```
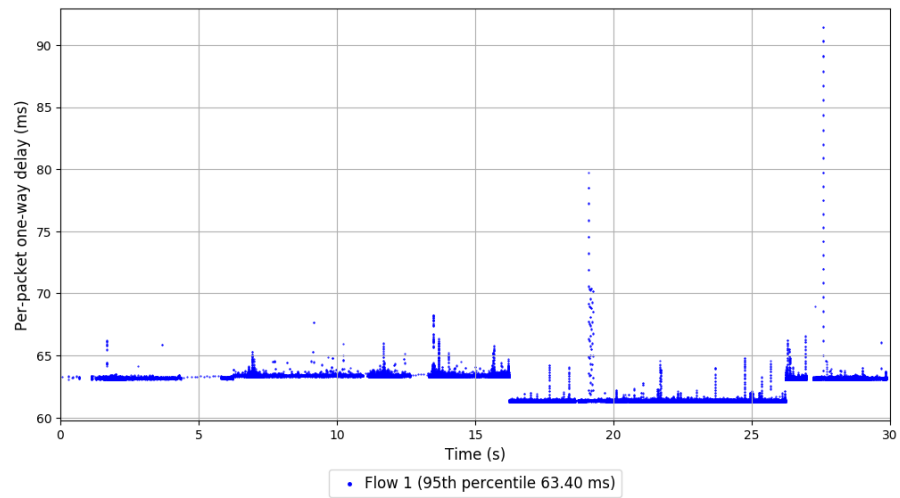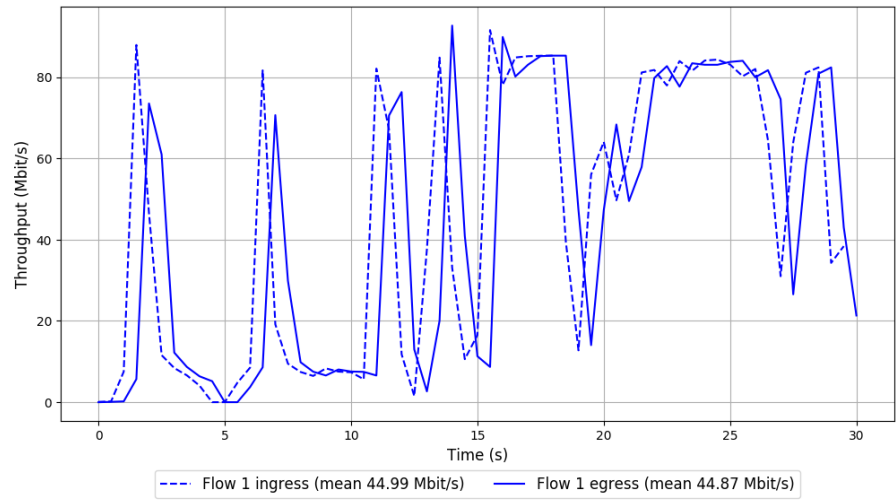
Run 10: Report of PCC-Expr — Data Link

```
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 12:44:29
End at: 2018-06-06 12:44:59
Local clock offset: 0.055 ms
Remote clock offset: -0.192 ms
```

Run 1: Report of QUIC Cubic — Data Link

```
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-06 13:04:54
End at: 2018-06-06 13:05:24
Local clock offset: -0.084 ms
Remote clock offset: 0.175 ms


# Below is generated by plot.py at 2018-06-06 17:04:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 63.397 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 44.87 Mbit/s
95th percentile per-packet one-way delay: 63.397 ms
Loss rate: 0.69%
```

Run 2: Report of QUIC Cubic — Data Link

```
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 13:25:34
End at: 2018-06-06 13:26:04
Local clock offset: 0.009 ms
Remote clock offset: -1.088 ms


# Below is generated by plot.py at 2018-06-06 17:04:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.24 Mbit/s
95th percentile per-packet one-way delay: 64.610 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 48.24 Mbit/s
95th percentile per-packet one-way delay: 64.610 ms
Loss rate: 0.74%
```
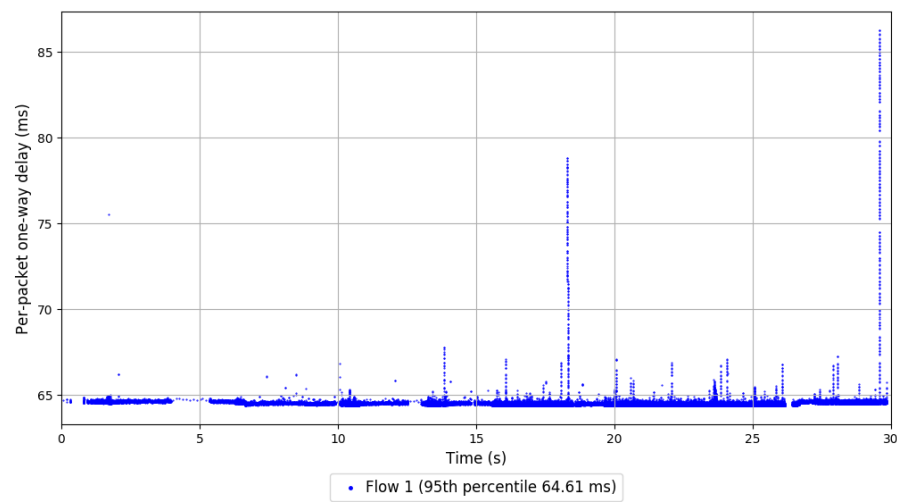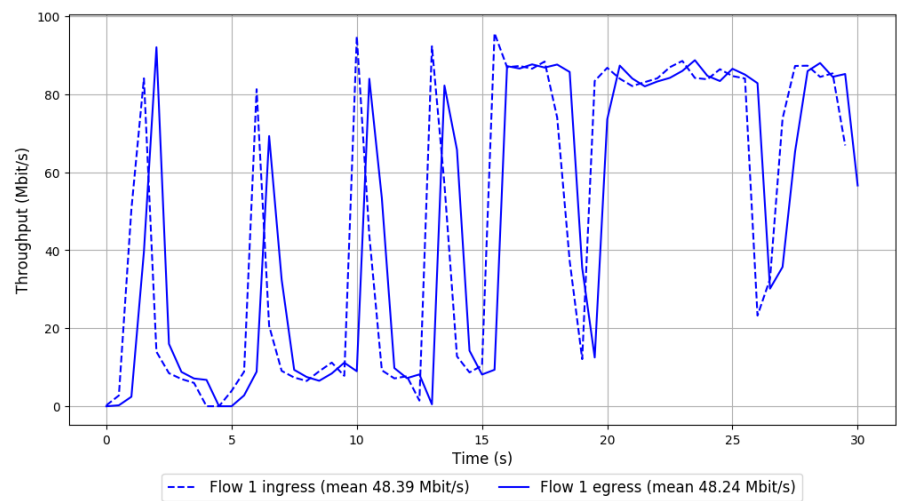
Run 3: Report of QUIC Cubic — Data Link

```
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 13:45:56
End at: 2018-06-06 13:46:26
Local clock offset: 0.065 ms
Remote clock offset: -0.903 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.45 Mbit/s
95th percentile per-packet one-way delay: 62.537 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 50.45 Mbit/s
95th percentile per-packet one-way delay: 62.537 ms
Loss rate: 0.70%
```
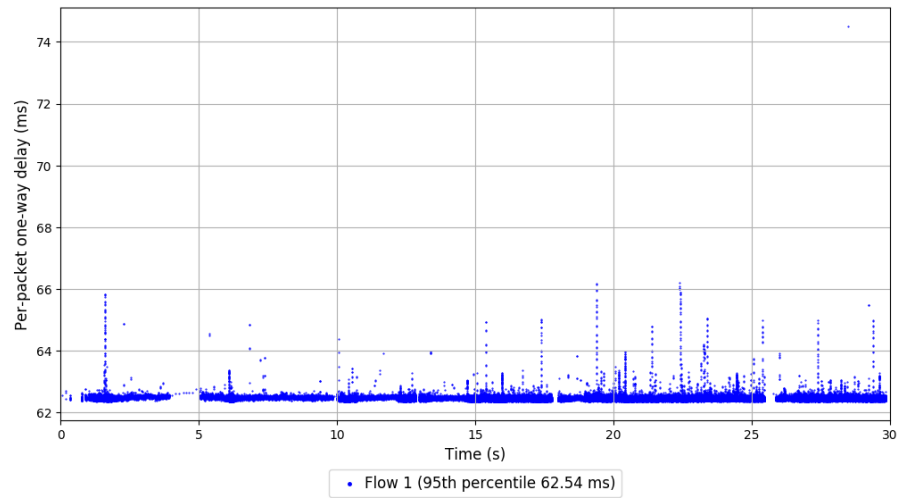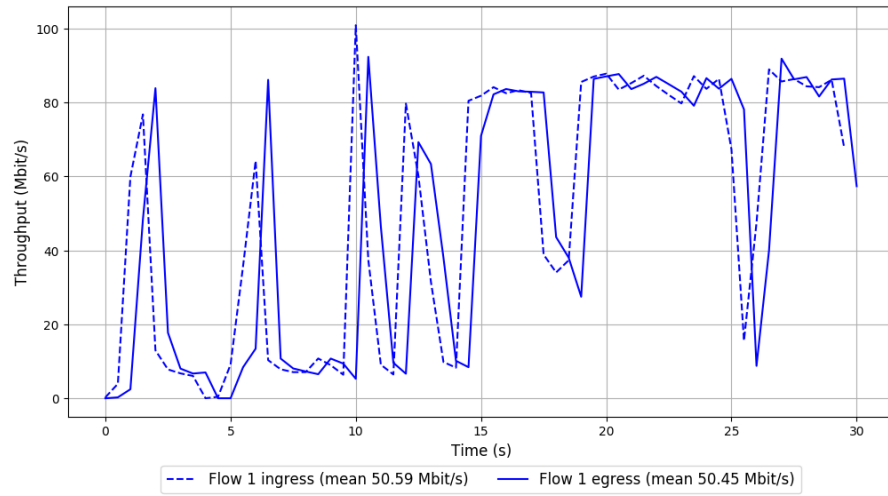
Run 4: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 50.59 Mbit/s)   Flow 1 egress (mean 50.45 Mbit/s)
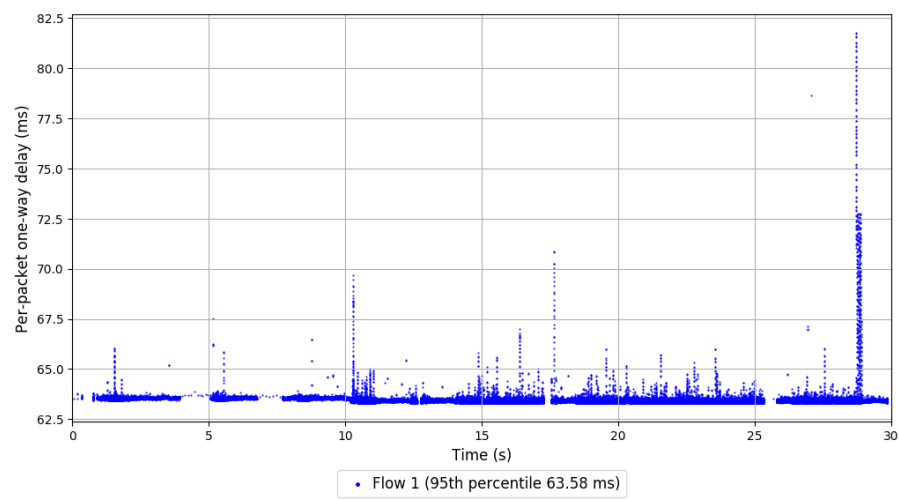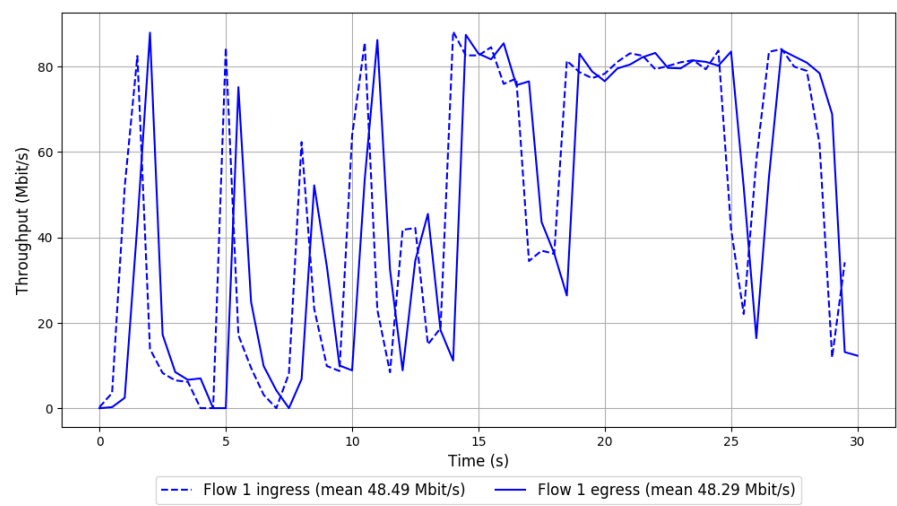

Flow 1 (95th percentile 62.54 ms)

```
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 14:06:10
End at: 2018-06-06 14:06:40
Local clock offset: 0.06 ms
Remote clock offset: -0.083 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.29 Mbit/s
95th percentile per-packet one-way delay: 63.578 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 48.29 Mbit/s
95th percentile per-packet one-way delay: 63.578 ms
Loss rate: 0.83%
```
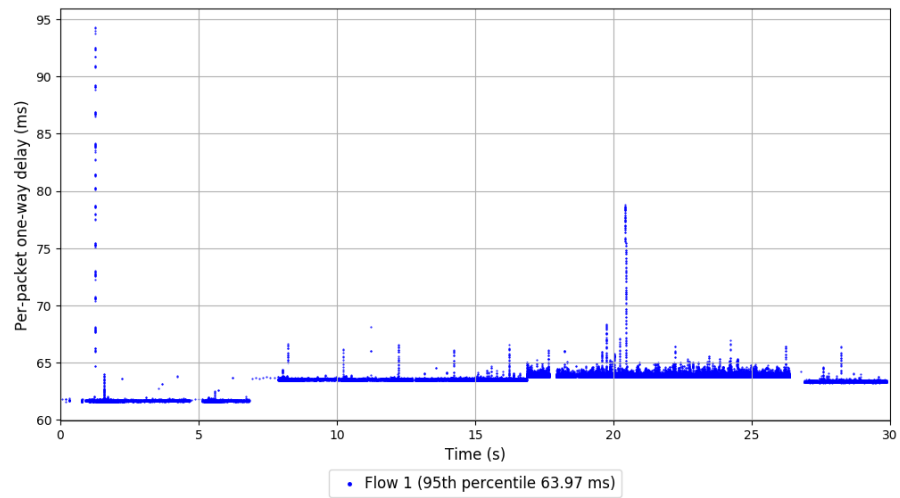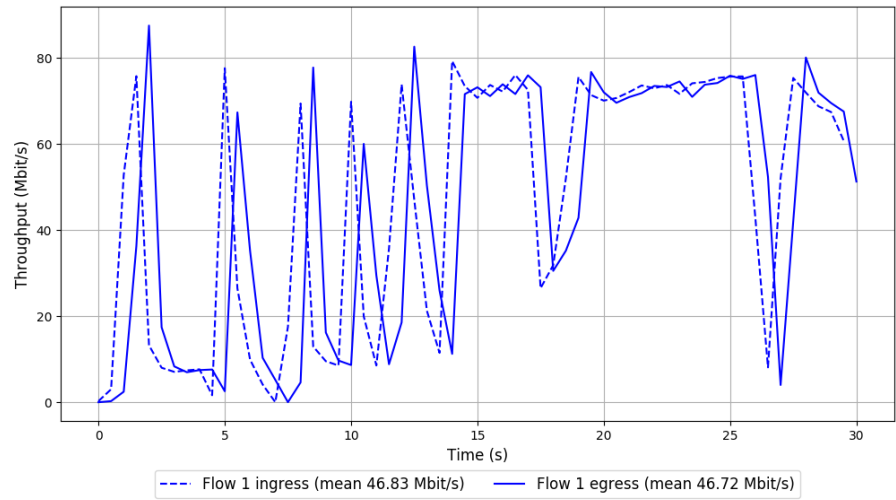
Run 5: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 48.49 Mbit/s) ----- Flow 1 egress (mean 48.29 Mbit/s) ——
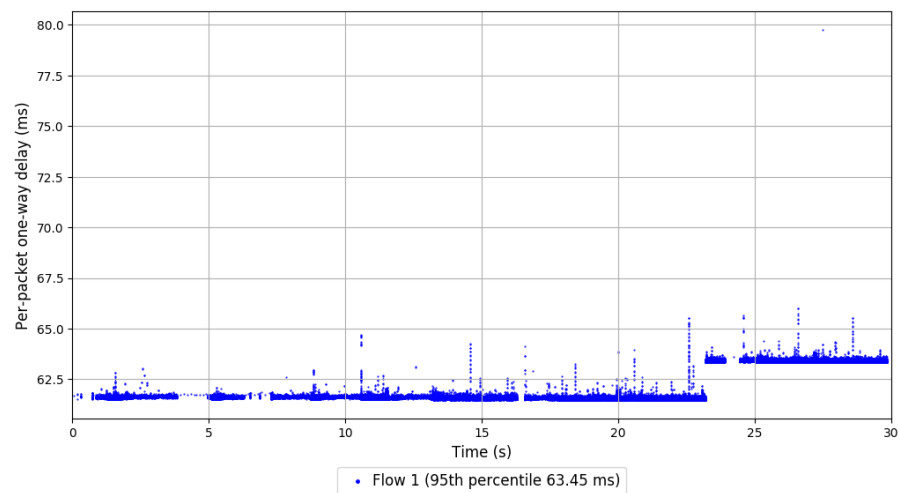

Flow 1 (95th percentile 63.58 ms)

```
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 14:26:34
End at: 2018-06-06 14:27:04
Local clock offset: -0.035 ms
Remote clock offset: -0.119 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.72 Mbit/s
95th percentile per-packet one-way delay: 63.970 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 46.72 Mbit/s
95th percentile per-packet one-way delay: 63.970 ms
Loss rate: 0.64%
```

Run 6: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 46.83 Mbit/s)   Flow 1 egress (mean 46.72 Mbit/s)

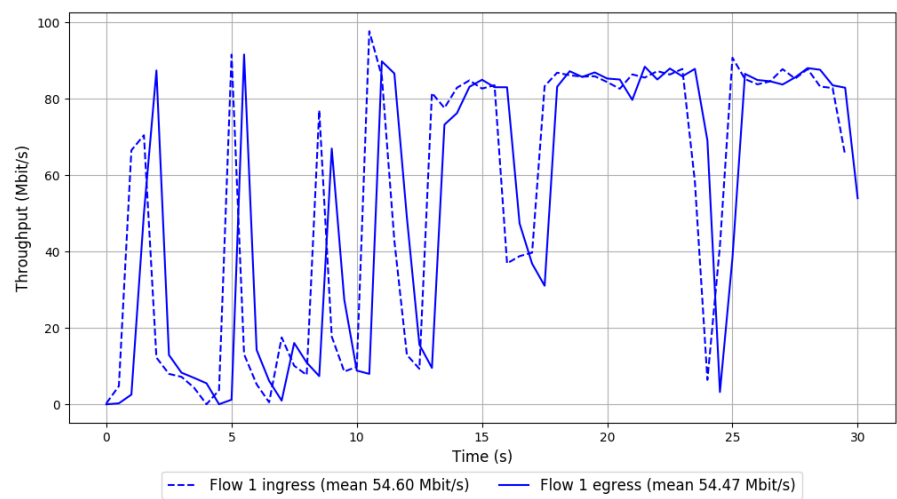

Flow 1 (95th percentile 63.97 ms)

```
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 14:46:57
End at: 2018-06-06 14:47:27
Local clock offset: -0.047 ms
Remote clock offset: -0.118 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.47 Mbit/s
95th percentile per-packet one-way delay: 63.449 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 54.47 Mbit/s
95th percentile per-packet one-way delay: 63.449 ms
Loss rate: 0.65%
```
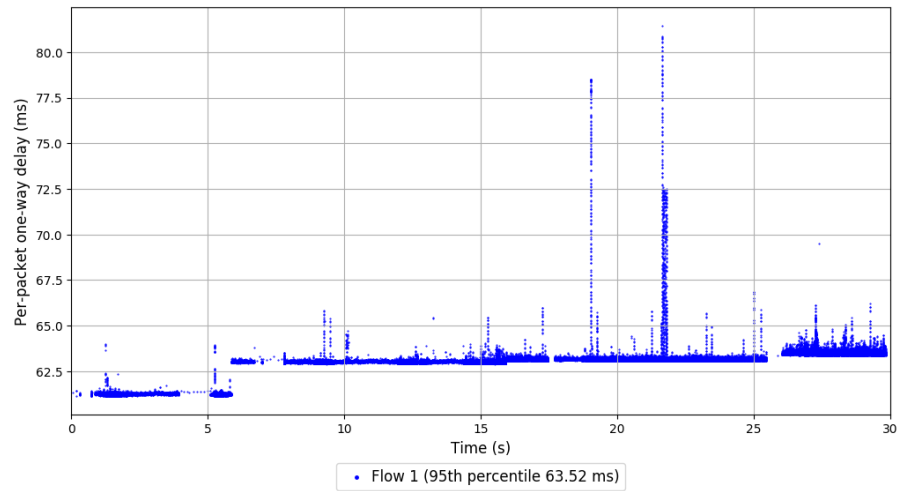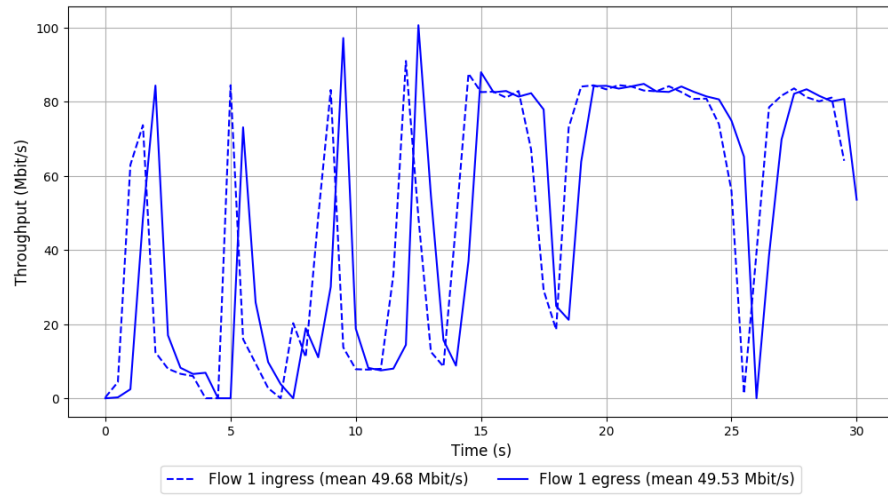
Run 7: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 54.60 Mbit/s)   Flow 1 egress (mean 54.47 Mbit/s)
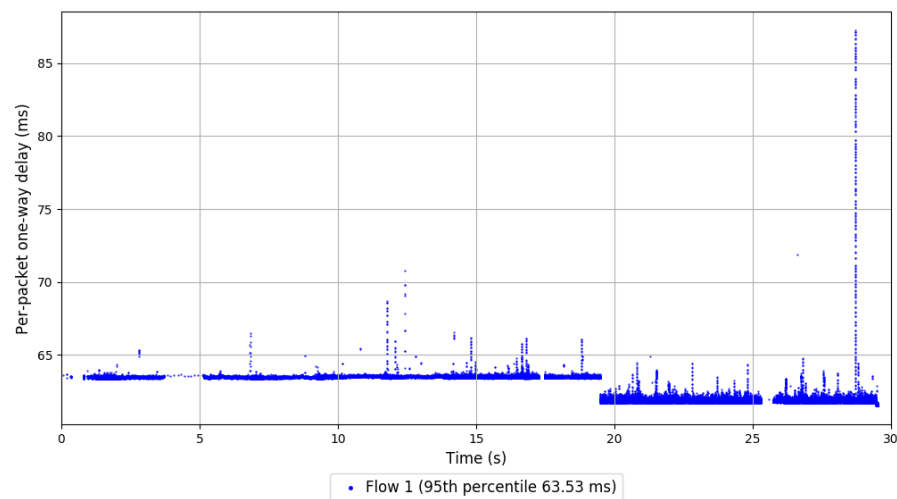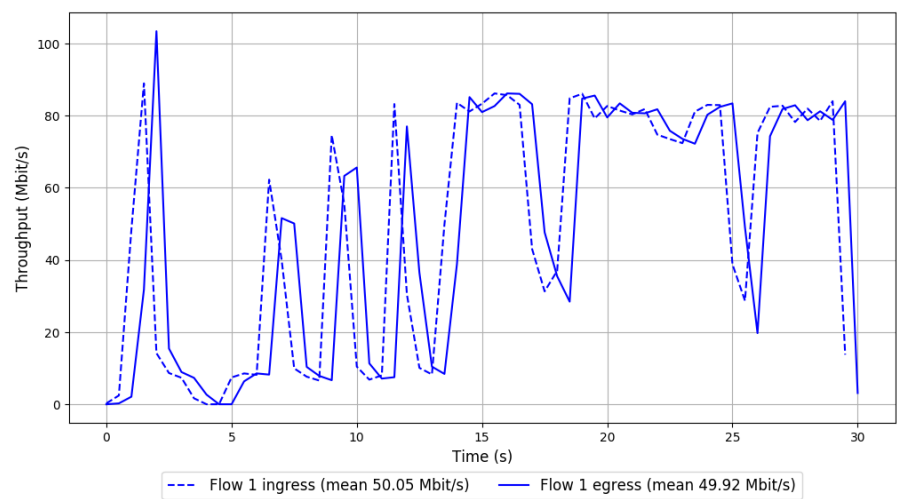

Flow 1 (95th percentile 63.45 ms)

```
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 15:07:45
End at: 2018-06-06 15:08:15
Local clock offset: -0.023 ms
Remote clock offset: 0.21 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 63.519 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 63.519 ms
Loss rate: 0.71%
```

Run 8: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 49.68 Mbit/s) --- Flow 1 egress (mean 49.53 Mbit/s)

Flow 1 (95th percentile 63.52 ms)

```
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 15:28:21
End at: 2018-06-06 15:28:51
Local clock offset: -0.032 ms
Remote clock offset: -0.043 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.92 Mbit/s
95th percentile per-packet one-way delay: 63.528 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 49.92 Mbit/s
95th percentile per-packet one-way delay: 63.528 ms
Loss rate: 0.71%
```
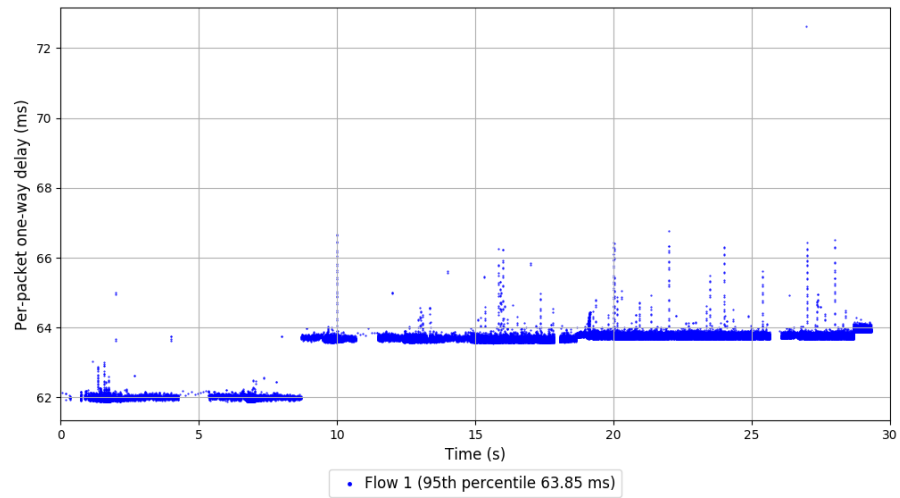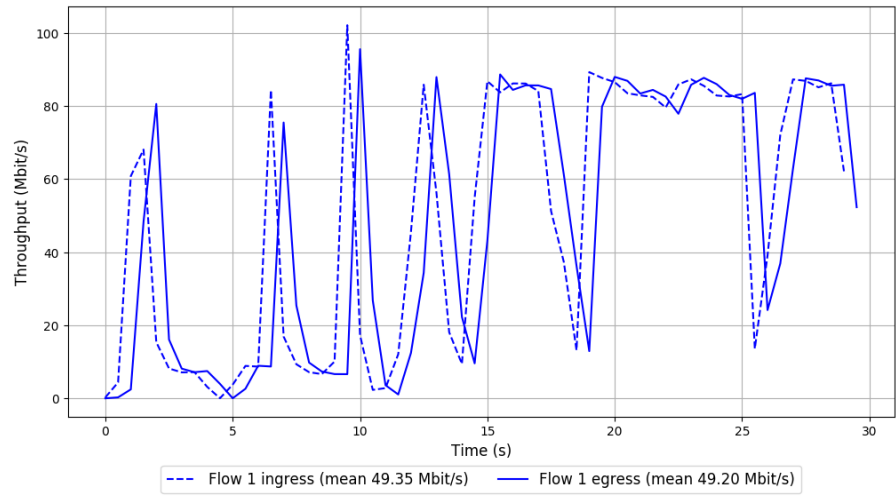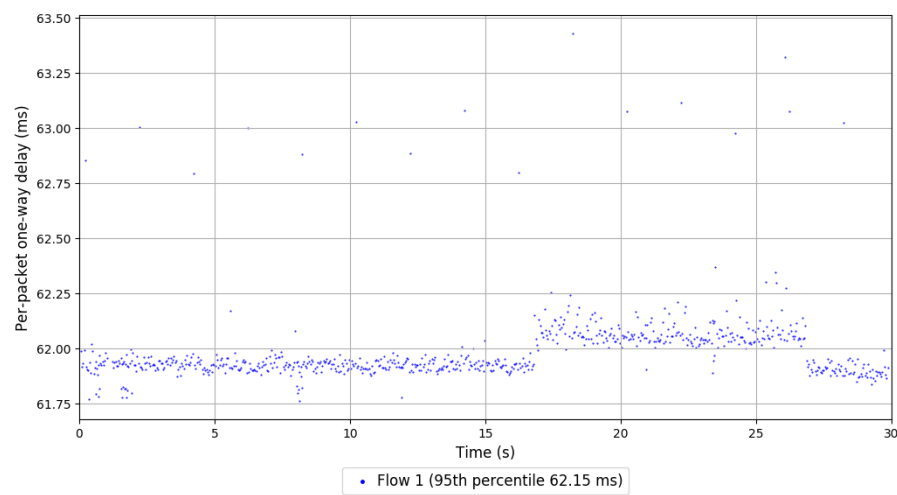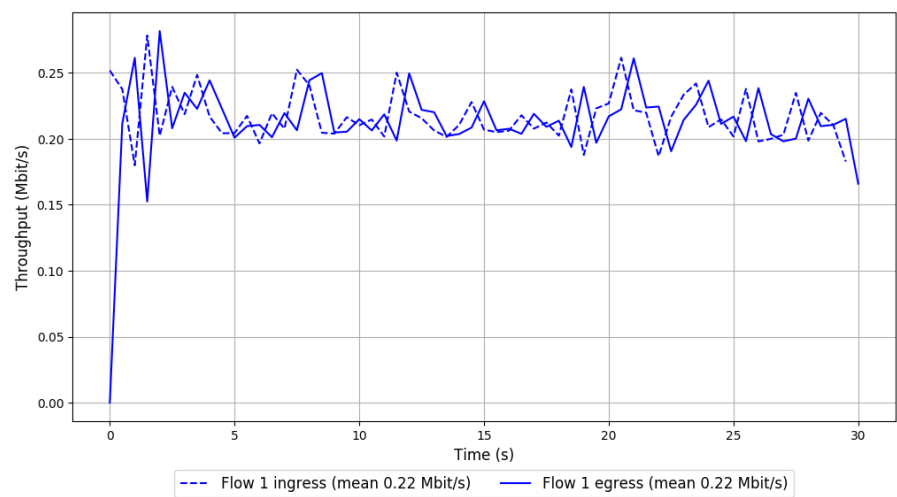
Run 9: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 50.05 Mbit/s)   Flow 1 egress (mean 49.92 Mbit/s)

Flow 1 (95th percentile 63.53 ms)

```
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 15:48:31
End at: 2018-06-06 15:49:01
Local clock offset: -0.024 ms
Remote clock offset: -0.358 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.20 Mbit/s
95th percentile per-packet one-way delay: 63.855 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 49.20 Mbit/s
95th percentile per-packet one-way delay: 63.855 ms
Loss rate: 0.72%
```

Run 10: Report of QUIC Cubic — Data Link

Flow 1 ingress (mean 49.35 Mbit/s) —— Flow 1 egress (mean 49.20 Mbit/s)

Flow 1 (95th percentile 63.85 ms)

```
Run 1: Statistics of SCReAM

Start at: 2018-06-06 12:35:24
End at: 2018-06-06 12:35:54
Local clock offset: -0.022 ms
Remote clock offset: -0.278 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.154 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.154 ms
Loss rate: 0.38%
```
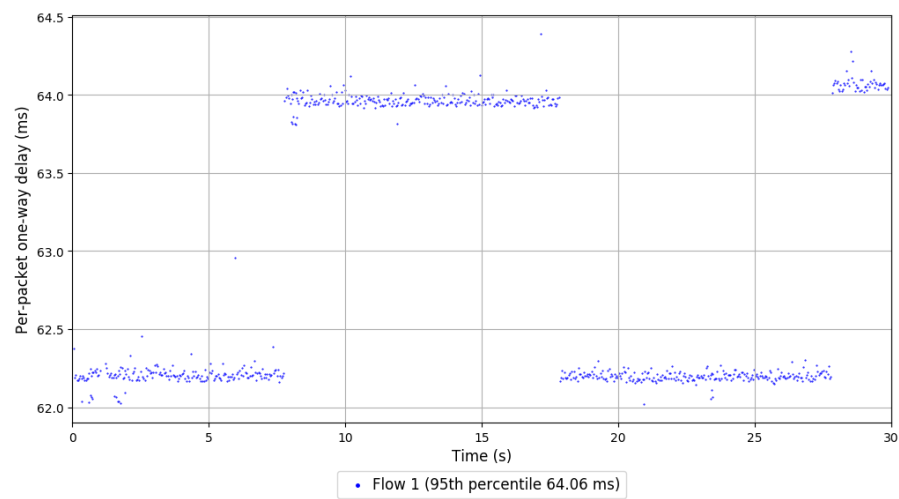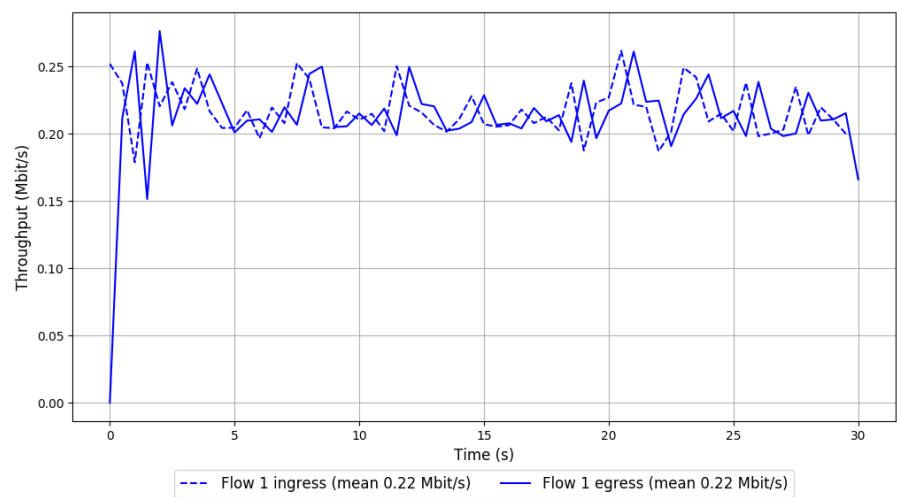
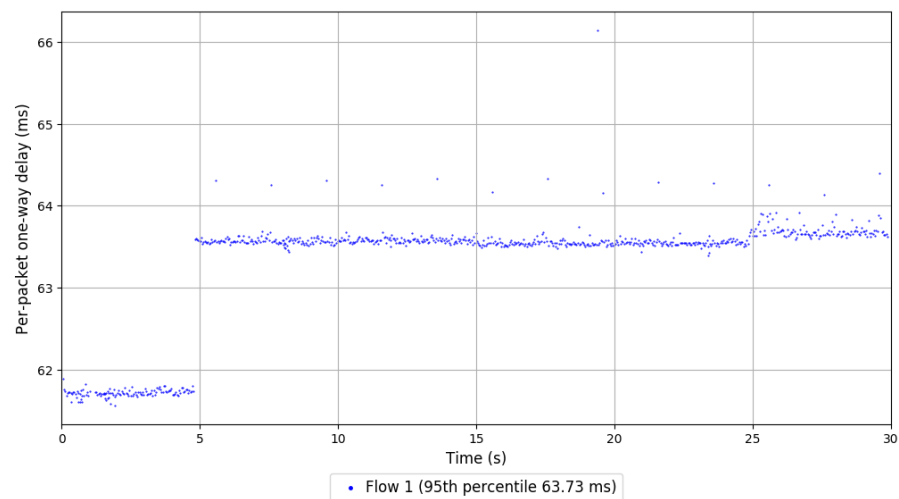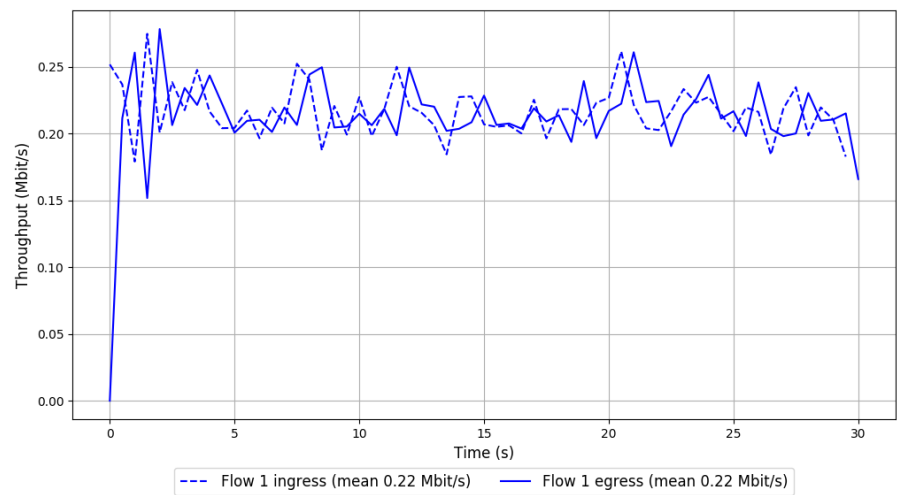Run 1: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 62.15 ms)

```
Run 2: Statistics of SCReAM

Start at: 2018-06-06 12:55:43
End at: 2018-06-06 12:56:13
Local clock offset: 0.0 ms
Remote clock offset: -0.5 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.056 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.056 ms
Loss rate: 0.51%
```
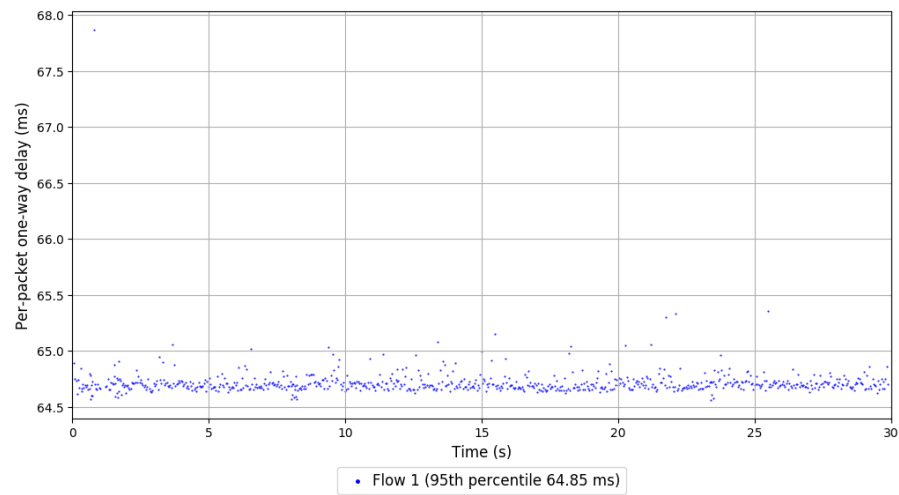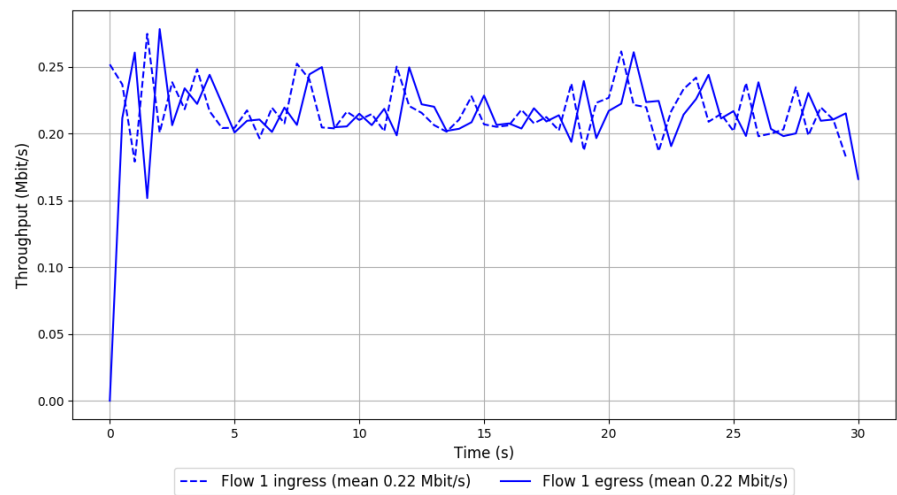
Run 2: Report of SCReAM — Data Link

```
Run 3: Statistics of SCReAM

Start at: 2018-06-06 13:16:16
End at: 2018-06-06 13:16:46
Local clock offset: -0.027 ms
Remote clock offset: -0.084 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.726 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.726 ms
Loss rate: 0.38%
```
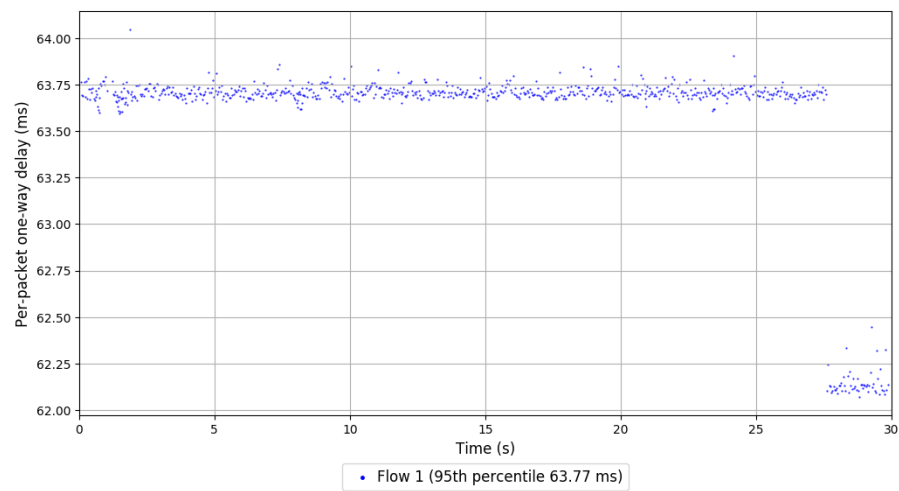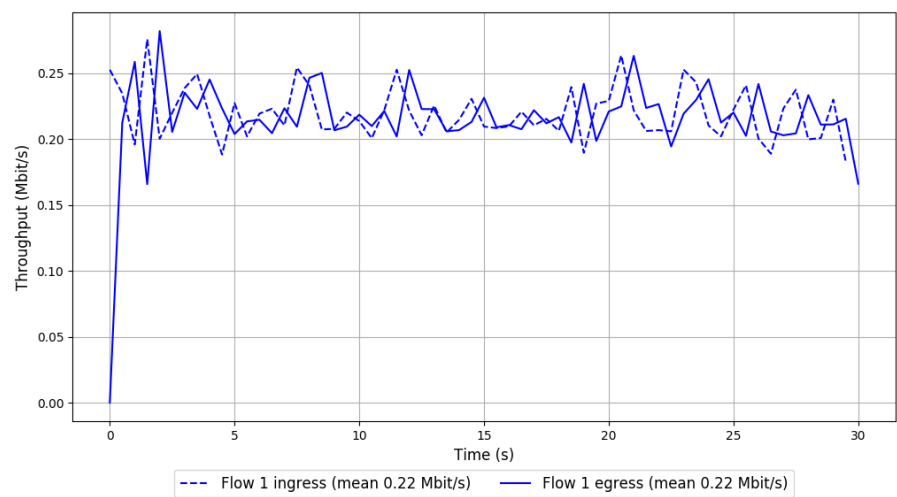
Run 3: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 63.73 ms)

```
Run 4: Statistics of SCReAM

Start at: 2018-06-06 13:36:52
End at: 2018-06-06 13:37:22
Local clock offset: 0.064 ms
Remote clock offset: -0.967 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.846 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.846 ms
Loss rate: 0.38%
```
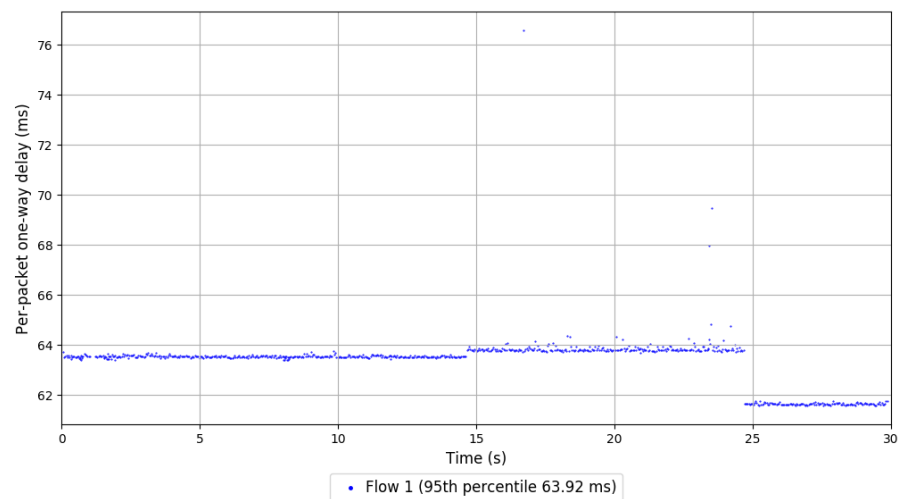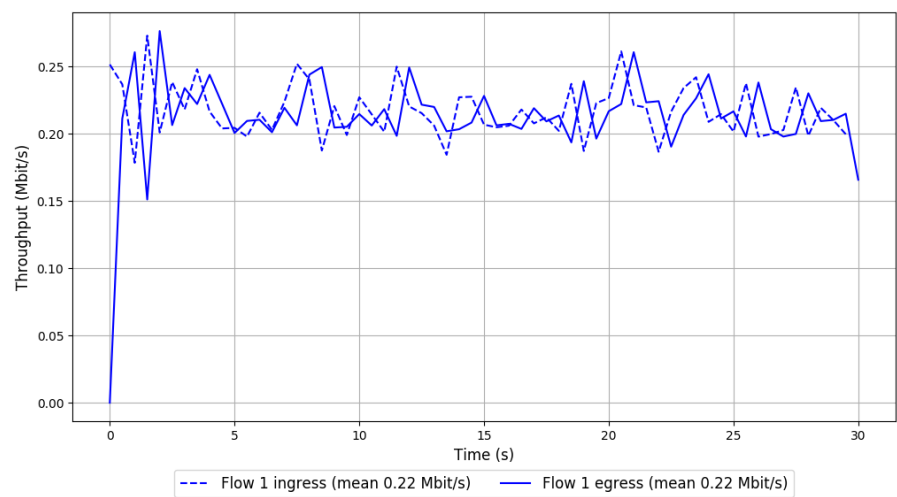
Run 4: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 64.85 ms)

```
Run 5: Statistics of SCReAM

Start at: 2018-06-06 13:57:23
End at: 2018-06-06 13:57:53
Local clock offset: 0.161 ms
Remote clock offset: -0.095 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.768 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.768 ms
Loss rate: 0.37%
```
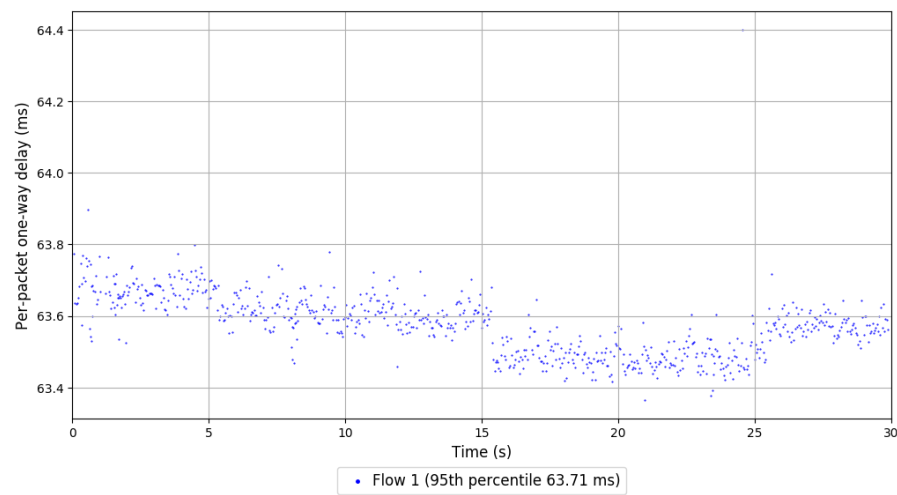
Run 5: Report of SCReAM — Data Link

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

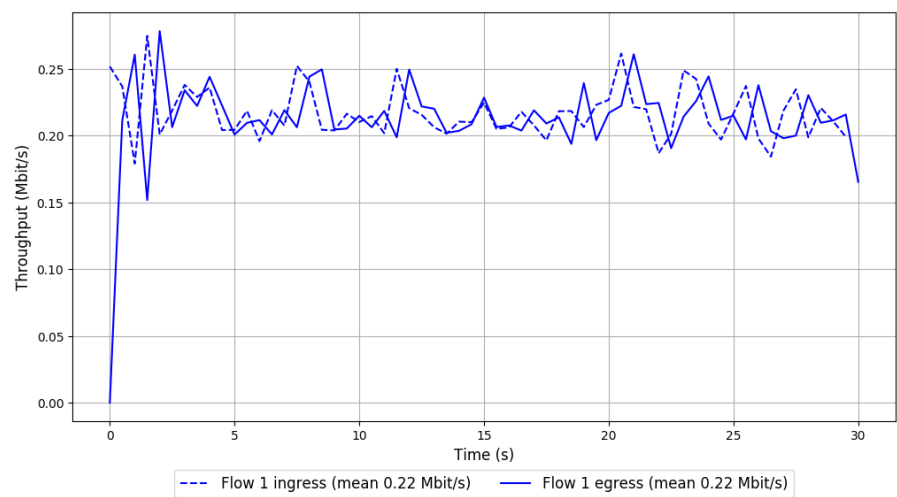Flow 1 (95th percentile 63.77 ms)

```
Run 6: Statistics of SCReAM

Start at: 2018-06-06 14:17:36
End at: 2018-06-06 14:18:06
Local clock offset: -0.08 ms
Remote clock offset: -0.062 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.923 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.923 ms
Loss rate: 0.51%
```
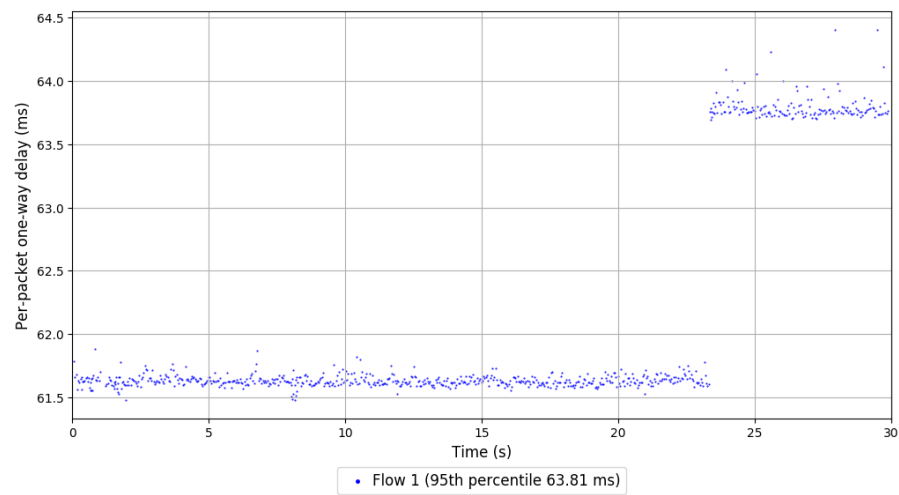
Run 6: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 63.92 ms)

```
Run 7: Statistics of SCReAM

Start at: 2018-06-06 14:37:55
End at: 2018-06-06 14:38:25
Local clock offset: -0.048 ms
Remote clock offset: -0.109 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 0.51%
```
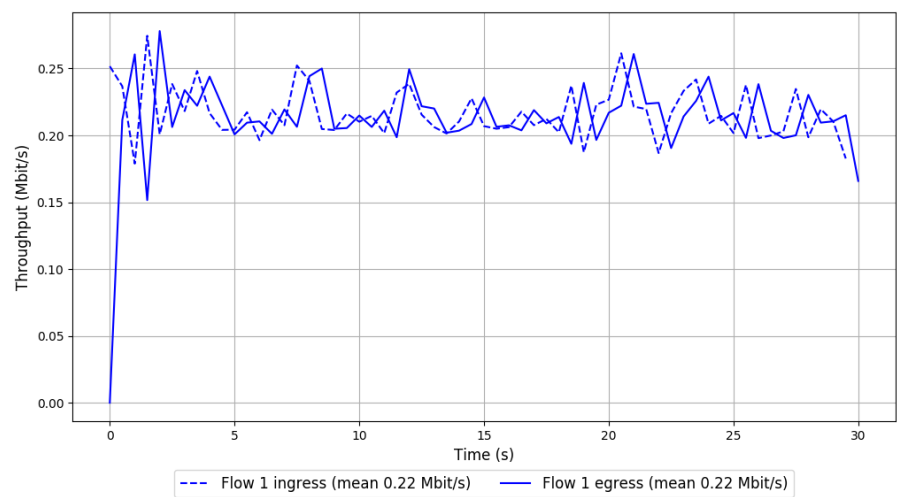
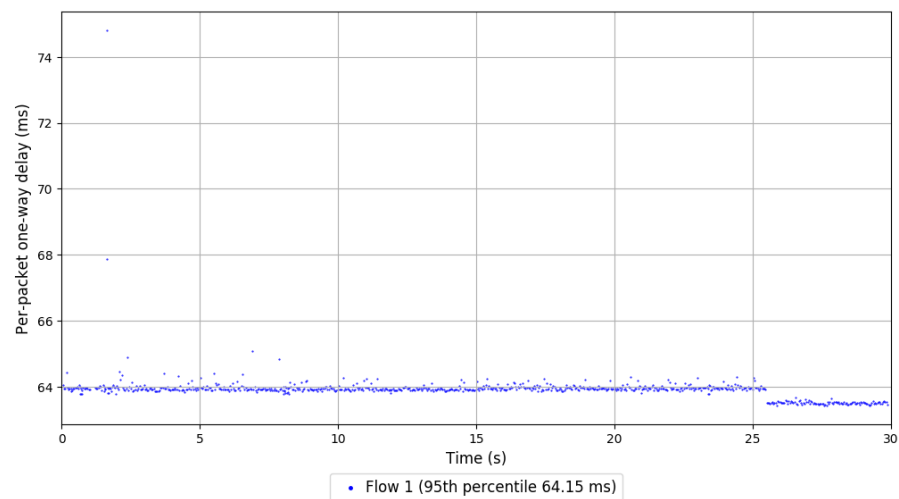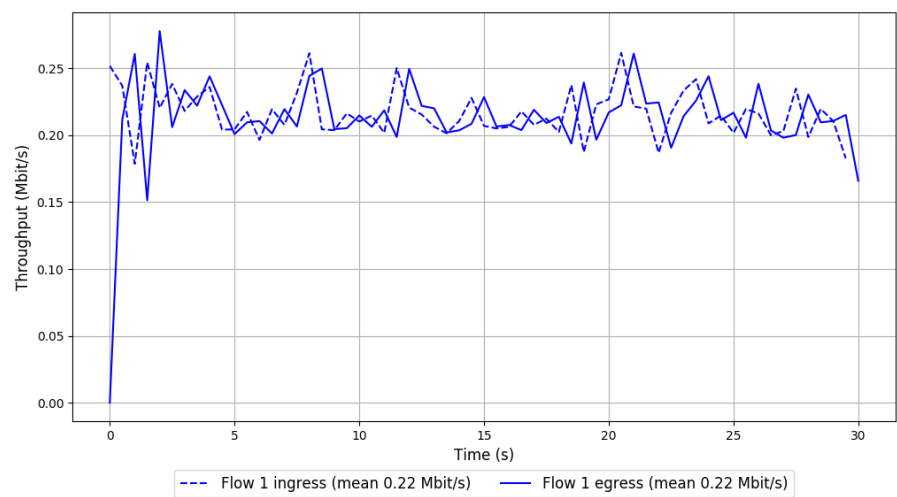# Run 7: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 63.71 ms)

```
Run 8: Statistics of SCReAM

Start at: 2018-06-06 14:58:27
End at: 2018-06-06 14:58:57
Local clock offset: 0.001 ms
Remote clock offset: 0.045 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.812 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.812 ms
Loss rate: 0.38%
```
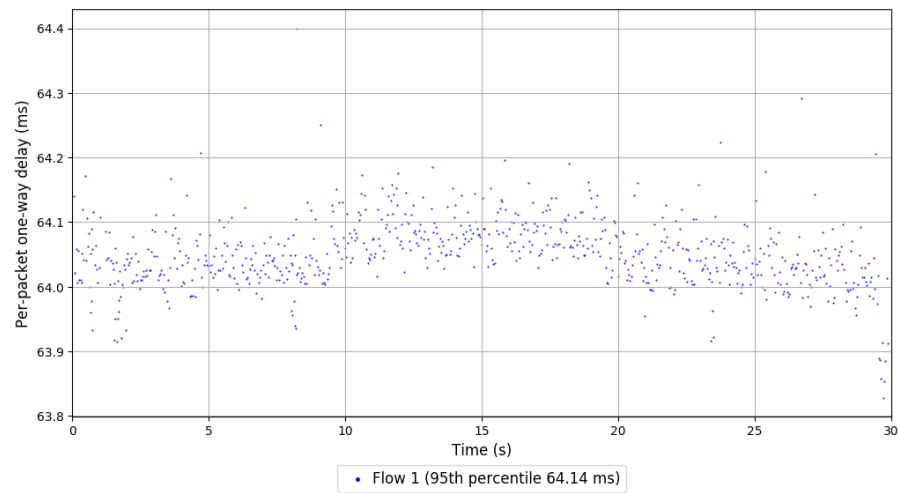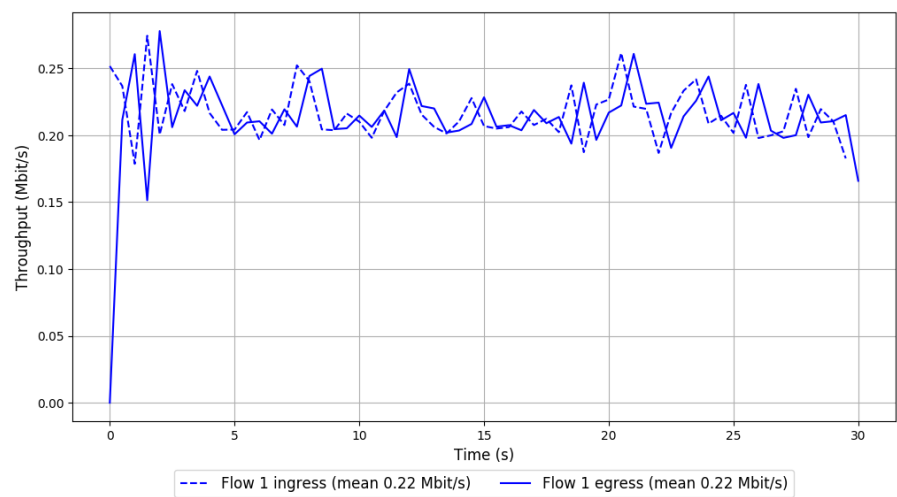
Run 8: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 63.81 ms)

```
Run 9: Statistics of SCReAM

Start at: 2018-06-06 15:19:05
End at: 2018-06-06 15:19:35
Local clock offset: -0.001 ms
Remote clock offset: -0.087 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.152 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.152 ms
Loss rate: 0.38%
```

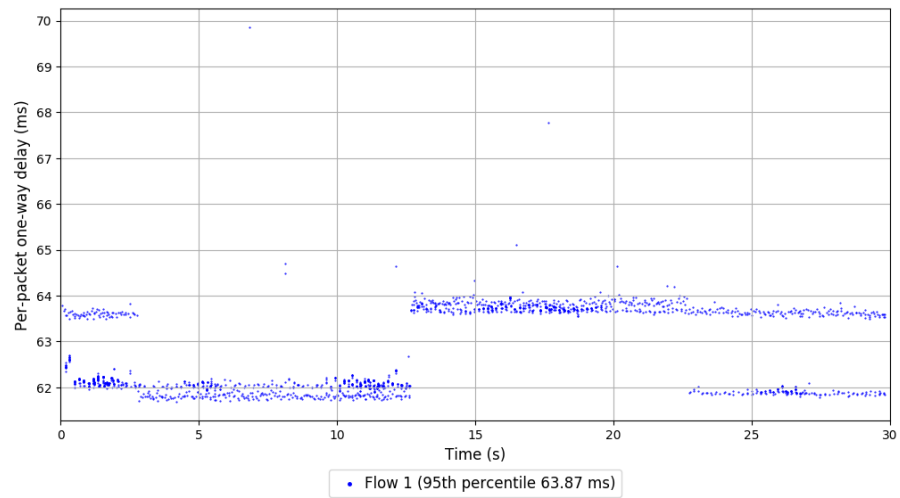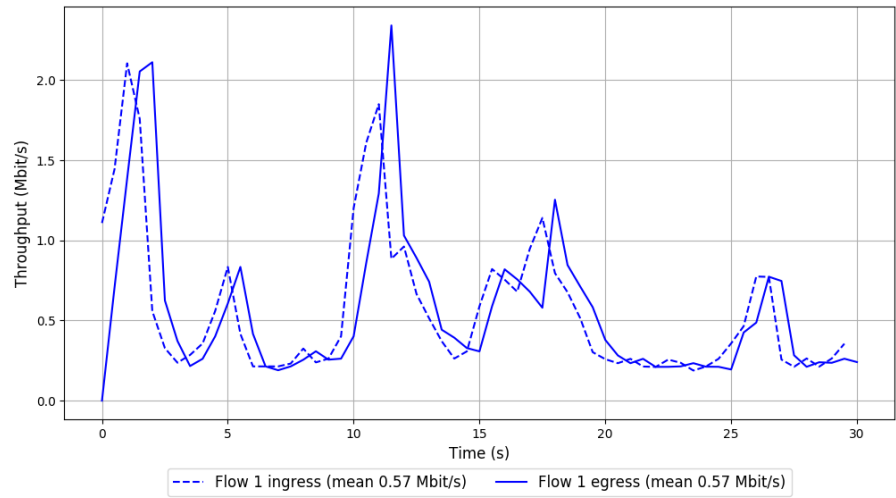Run 9: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 64.15 ms)

201

```
Run 10: Statistics of SCReAM

Start at: 2018-06-06 15:39:31
End at: 2018-06-06 15:40:01
Local clock offset: -0.033 ms
Remote clock offset: -0.454 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.138 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.138 ms
Loss rate: 0.38%
```
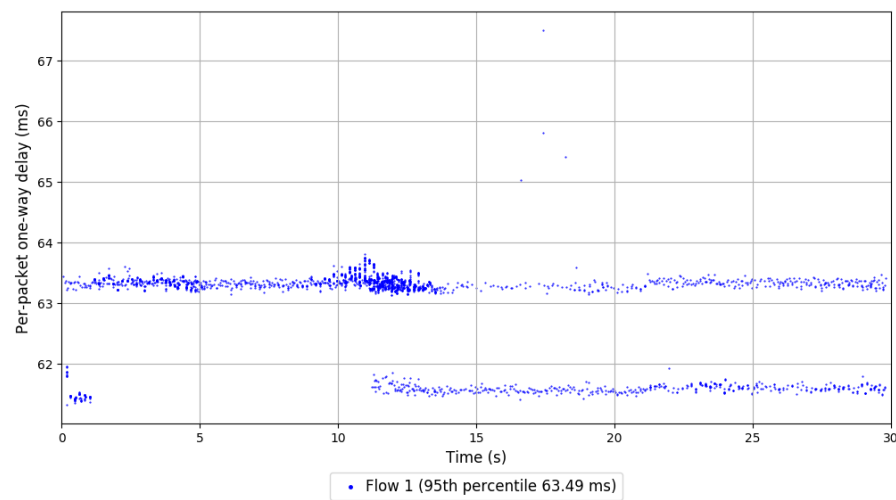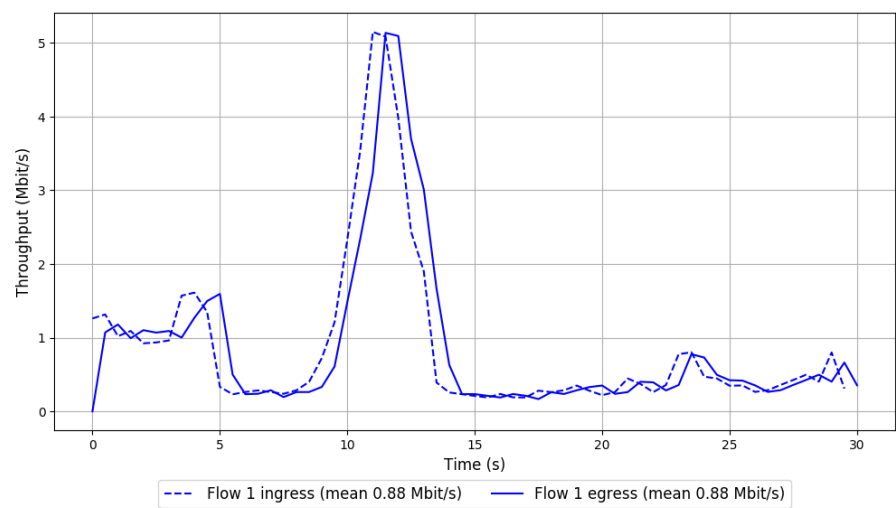
Run 10: Report of SCReAM — Data Link

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

Flow 1 (95th percentile 64.14 ms)

203

```
Run 1: Statistics of Sprout

Start at: 2018-06-06 12:32:48
End at: 2018-06-06 12:33:18
Local clock offset: -0.064 ms
Remote clock offset: -0.279 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 63.869 ms
Loss rate: 0.34%
```
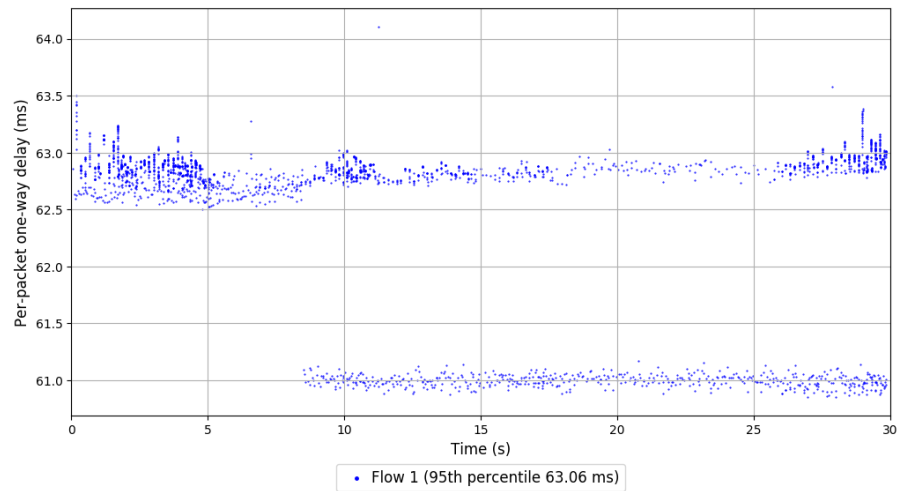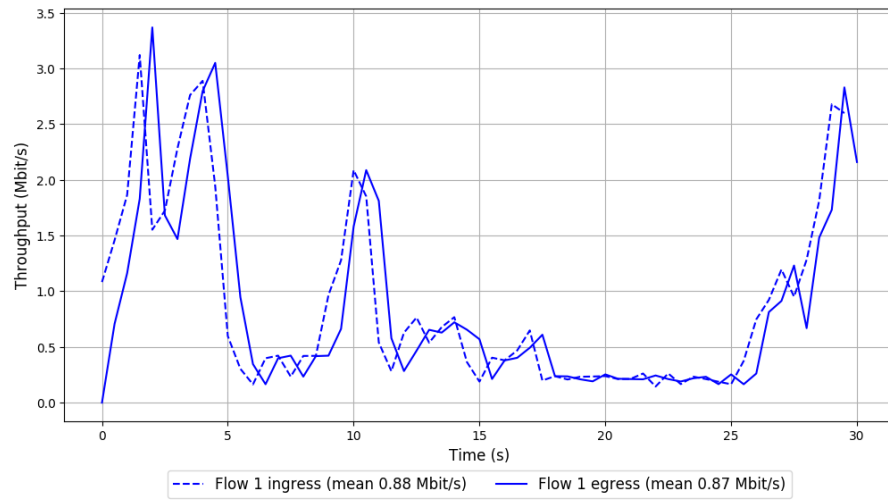
Run 1: Report of Sprout — Data Link

```
Run 2: Statistics of Sprout

Start at: 2018-06-06 12:53:09
End at: 2018-06-06 12:53:39
Local clock offset: -0.028 ms
Remote clock offset: 0.056 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 63.492 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 63.492 ms
Loss rate: 0.18%
```
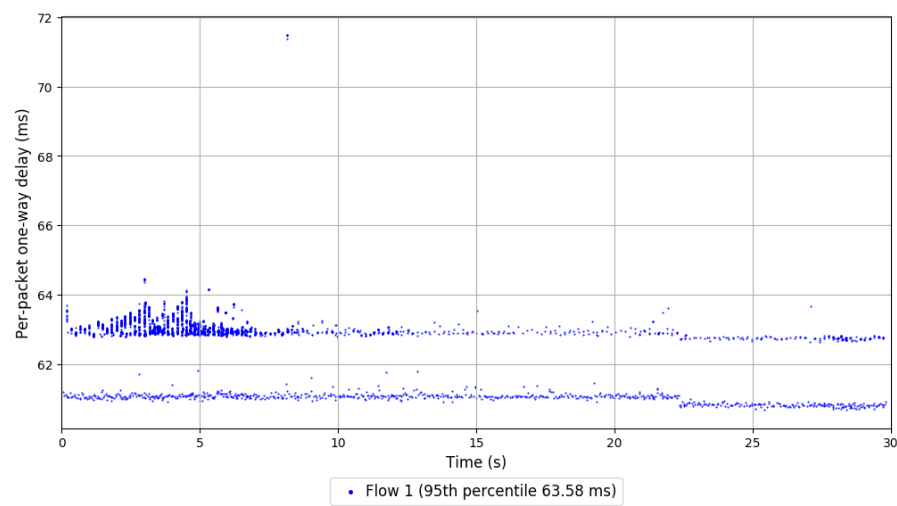
Run 2: Report of Sprout — Data Link

```
Run 3: Statistics of Sprout

Start at: 2018-06-06 13:13:42
End at: 2018-06-06 13:14:12
Local clock offset: -0.018 ms
Remote clock offset: 0.731 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 63.058 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.87 Mbit/s
95th percentile per-packet one-way delay: 63.058 ms
Loss rate: 0.91%
```
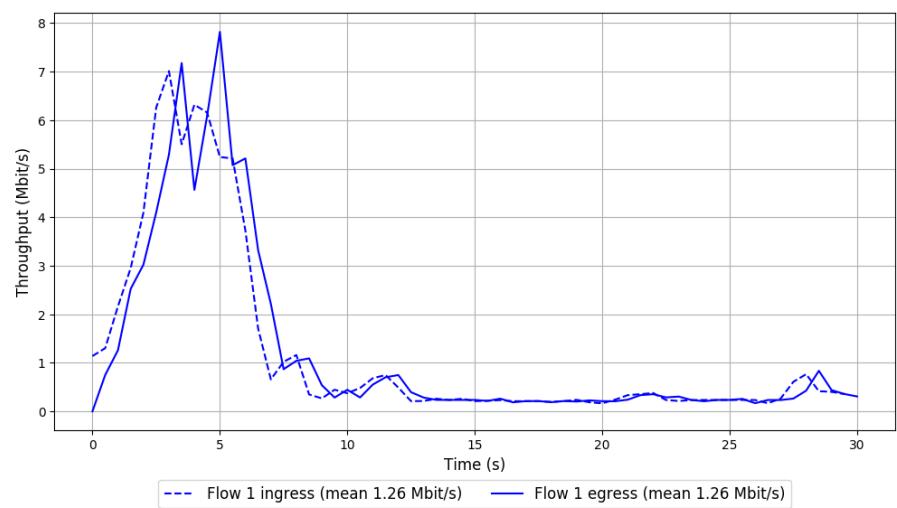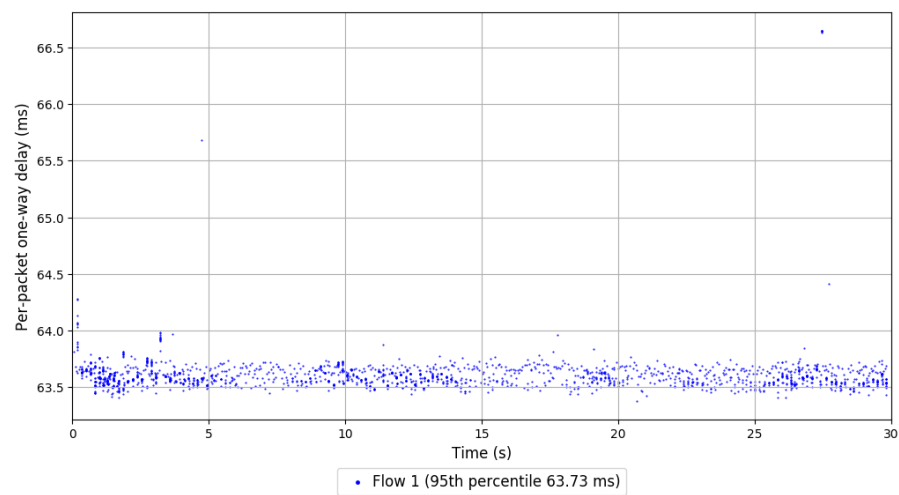
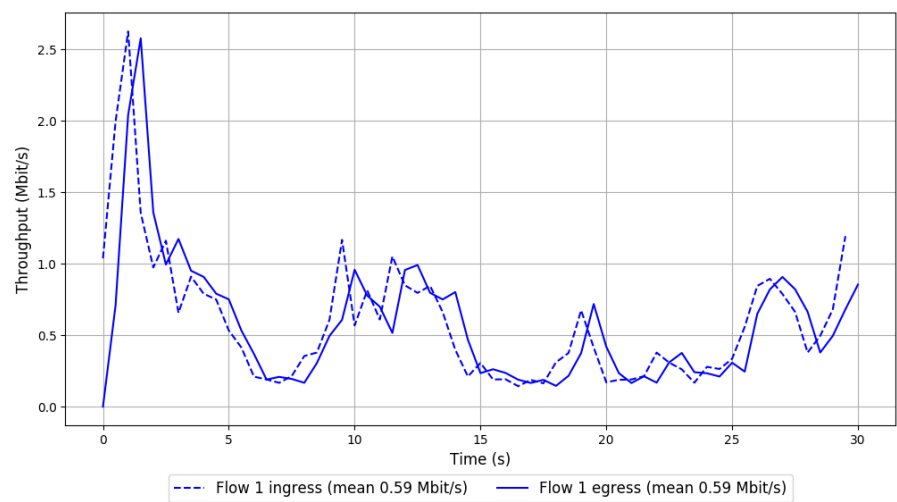Run 3: Report of Sprout — Data Link

```
Run 4: Statistics of Sprout

Start at: 2018-06-06 13:34:18
End at: 2018-06-06 13:34:48
Local clock offset: 0.076 ms
Remote clock offset: 0.846 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 63.576 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 1.26 Mbit/s
95th percentile per-packet one-way delay: 63.576 ms
Loss rate: 0.25%
```
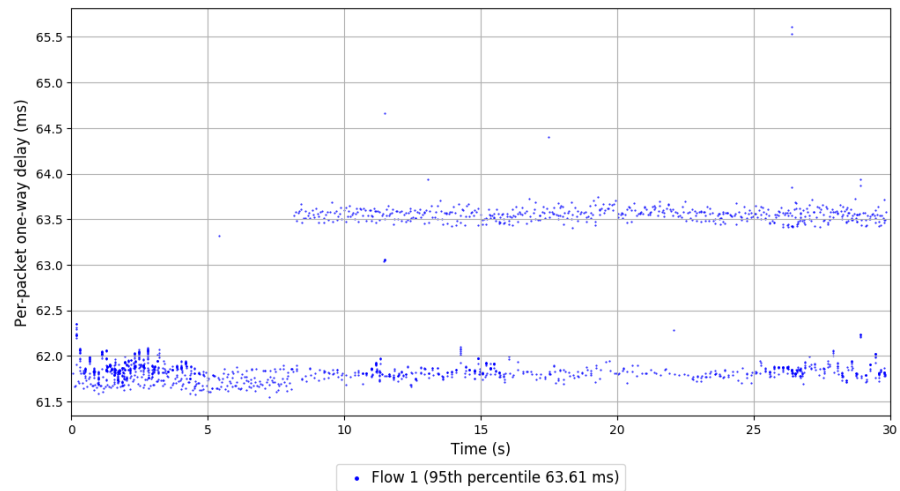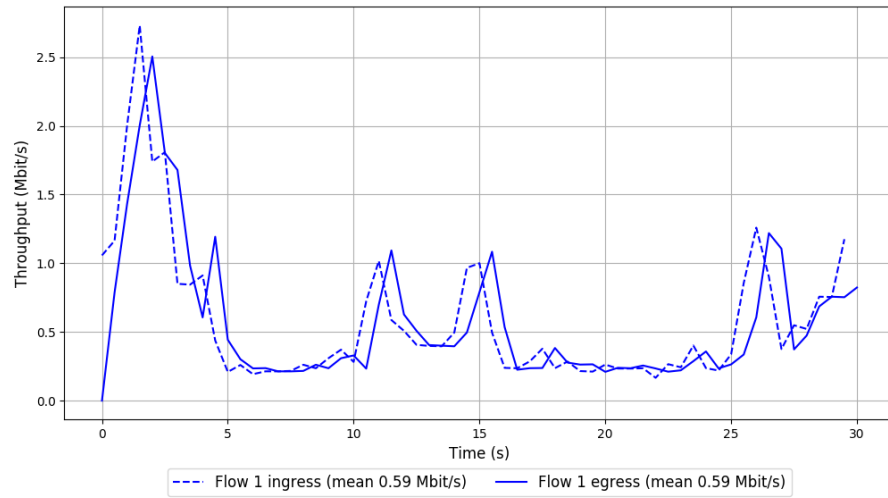
Run 4: Report of Sprout — Data Link

```
Run 5: Statistics of Sprout

Start at: 2018-06-06 13:54:47
End at: 2018-06-06 13:55:17
Local clock offset: 0.114 ms
Remote clock offset: -0.051 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 63.726 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 63.726 ms
Loss rate: 0.96%
```
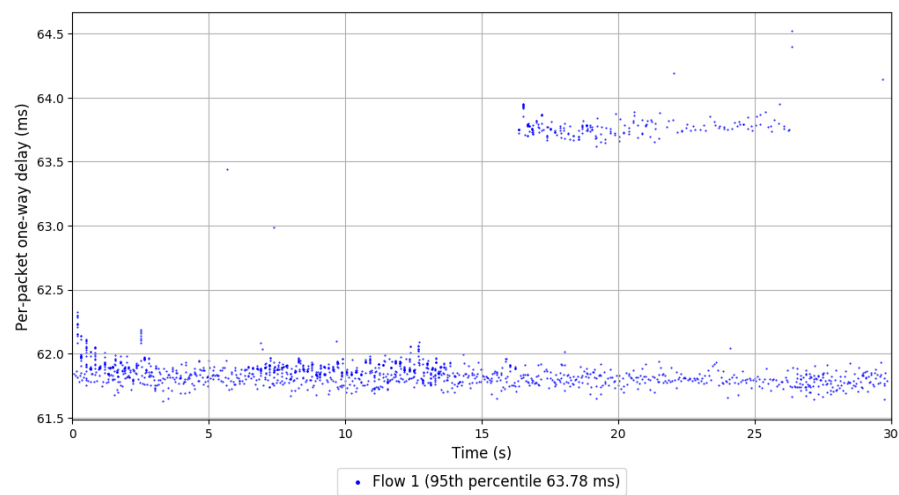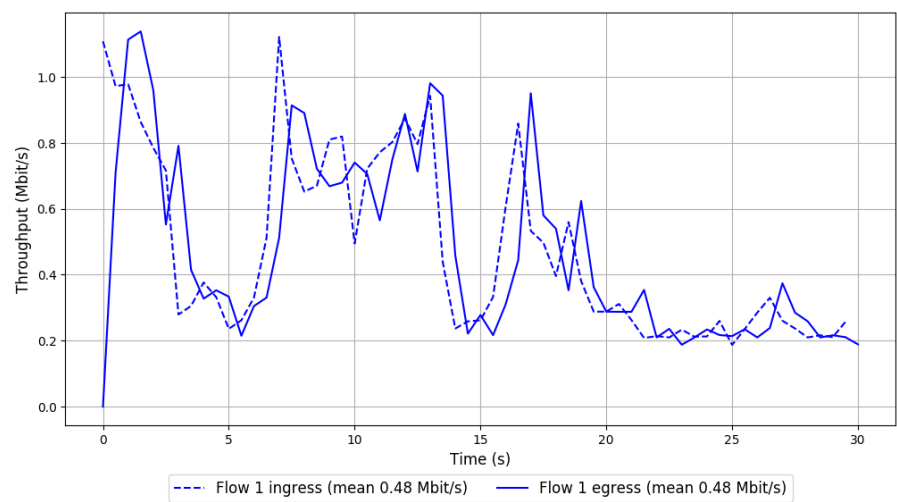
Run 5: Report of Sprout — Data Link

Flow 1 ingress (mean 0.59 Mbit/s)   Flow 1 egress (mean 0.59 Mbit/s)

Flow 1 (95th percentile 63.73 ms)

```
Run 6: Statistics of Sprout

Start at: 2018-06-06 14:15:02
End at: 2018-06-06 14:15:32
Local clock offset: -0.056 ms
Remote clock offset: -0.048 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 63.612 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 63.612 ms
Loss rate: 1.00%
```

Run 6: Report of Sprout — Data Link

```
Run 7: Statistics of Sprout

Start at: 2018-06-06 14:35:24
End at: 2018-06-06 14:35:54
Local clock offset: -0.02 ms
Remote clock offset: -0.101 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 63.779 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 63.779 ms
Loss rate: 0.24%
```
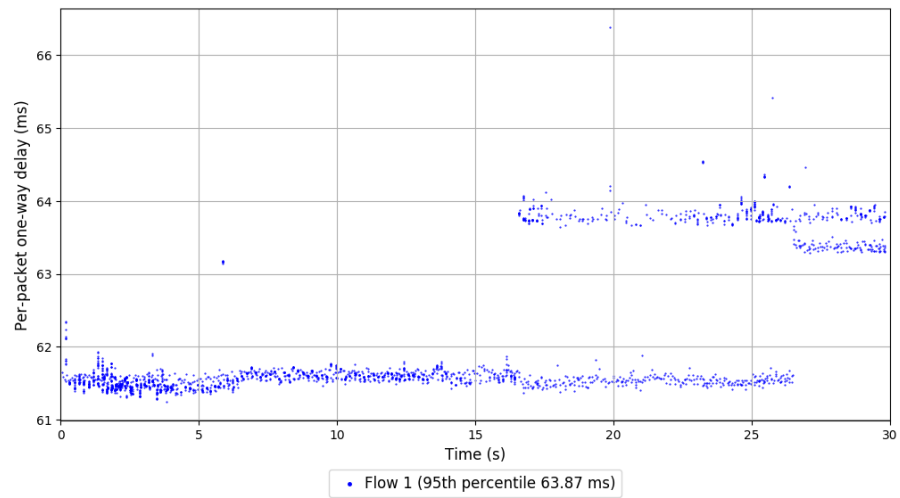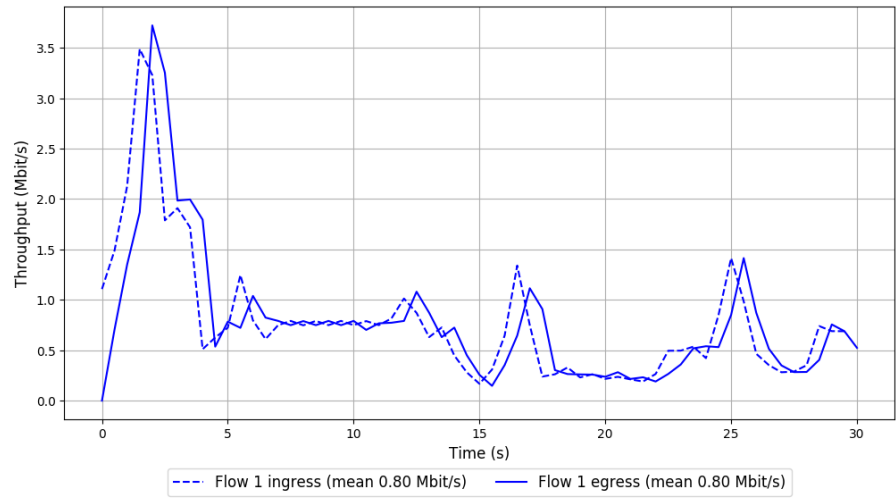
Run 7: Report of Sprout — Data Link

```
Run 8: Statistics of Sprout

Start at: 2018-06-06 14:55:54
End at: 2018-06-06 14:56:24
Local clock offset: -0.022 ms
Remote clock offset: 0.063 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 63.866 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 63.866 ms
Loss rate: 0.35%
```
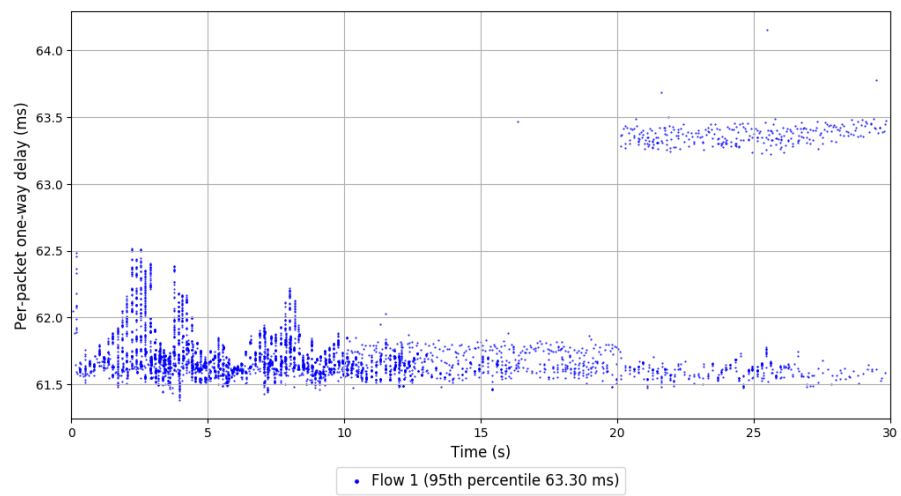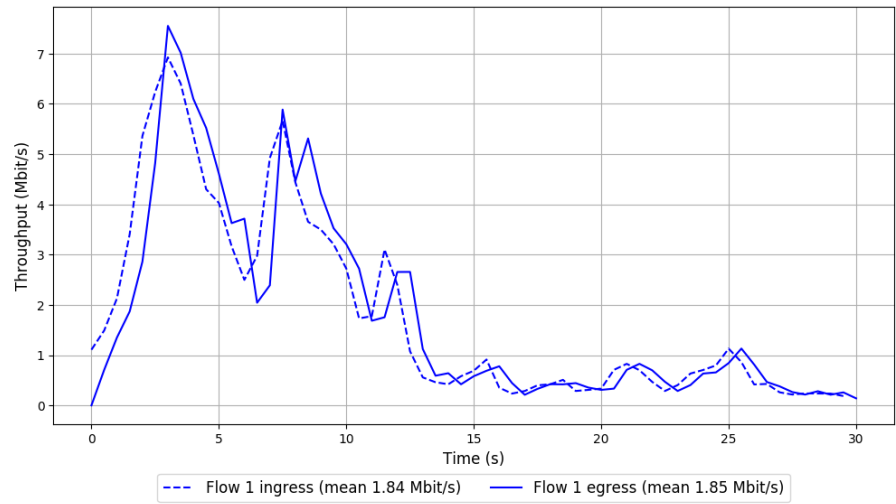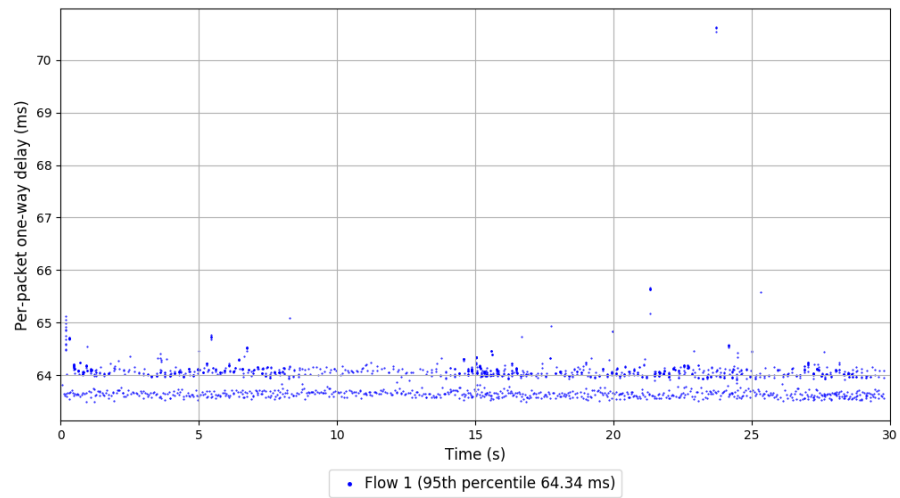
Run 8: Report of Sprout — Data Link

```
Run 9: Statistics of Sprout

Start at: 2018-06-06 15:16:30
End at: 2018-06-06 15:17:00
Local clock offset: -0.009 ms
Remote clock offset: 0.087 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 63.296 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 1.85 Mbit/s
95th percentile per-packet one-way delay: 63.296 ms
Loss rate: 0.04%
```
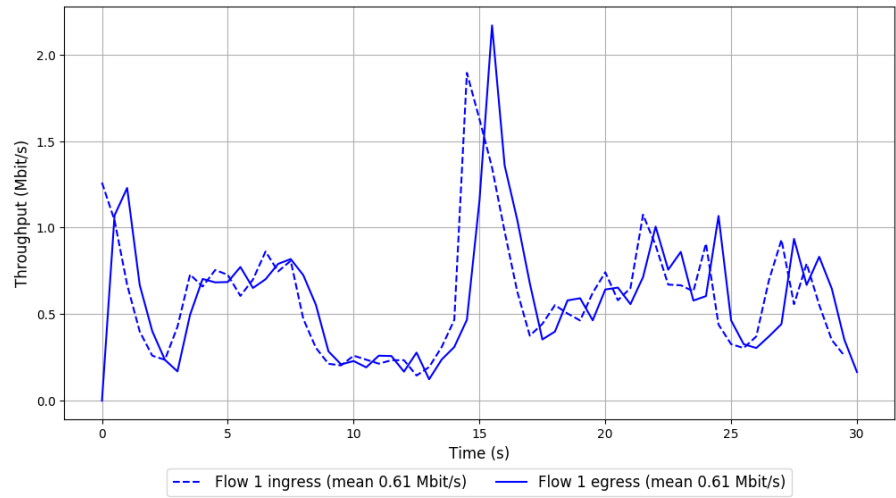
Run 9: Report of Sprout — Data Link

```
Run 10: Statistics of Sprout

Start at: 2018-06-06 15:37:06
End at: 2018-06-06 15:37:36
Local clock offset: -0.032 ms
Remote clock offset: -0.117 ms


# Below is generated by plot.py at 2018-06-06 17:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 64.342 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 64.342 ms
Loss rate: 0.27%
```
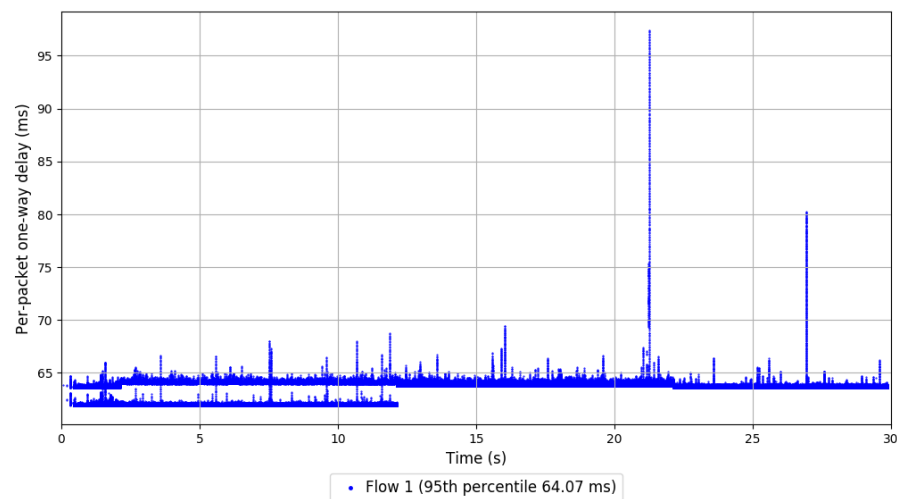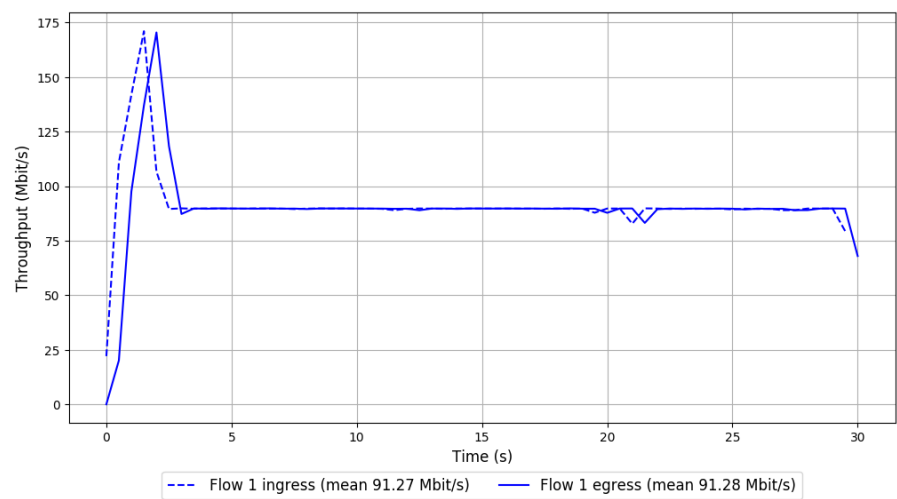
Run 10: Report of Sprout — Data Link

Flow 1 ingress (mean 0.61 Mbit/s) --- Flow 1 egress (mean 0.61 Mbit/s)
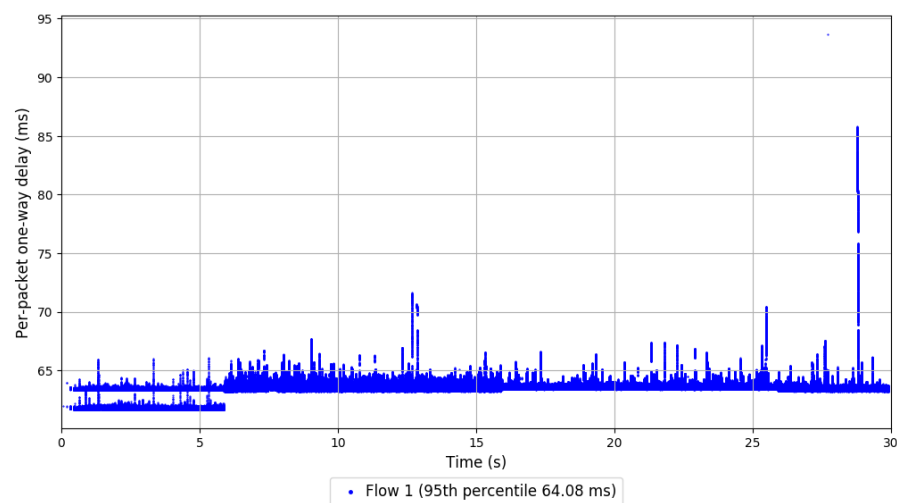

Flow 1 (95th percentile 64.34 ms)

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

Start at: 2018-06-06 12:37:58
End at: 2018-06-06 12:38:28
Local clock offset: -0.049 ms
Remote clock offset: -0.522 ms


# Below is generated by plot.py at 2018-06-06 17:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 64.073 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 64.073 ms
Loss rate: 0.42%
```

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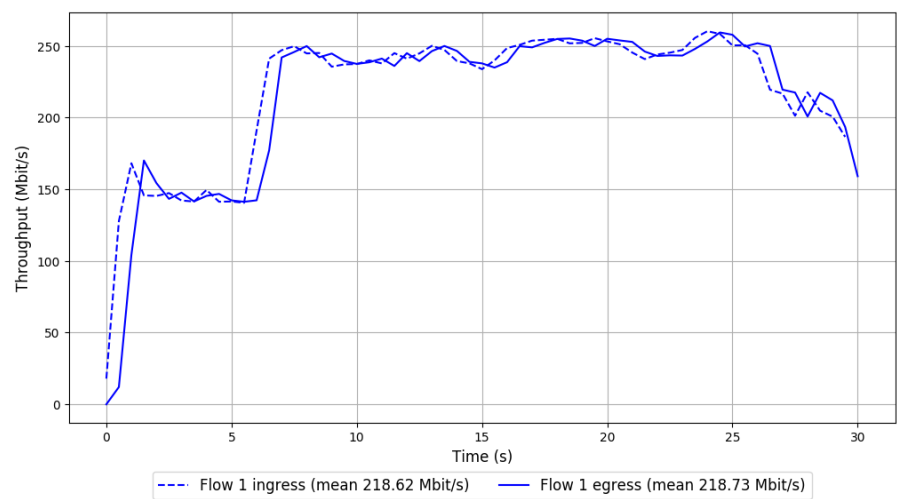

225

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

Start at: 2018-06-06 12:58:15
End at: 2018-06-06 12:58:45
Local clock offset: -0.001 ms
Remote clock offset: -0.137 ms


# Below is generated by plot.py at 2018-06-06 17:09:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.73 Mbit/s
95th percentile per-packet one-way delay: 64.081 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 218.73 Mbit/s
95th percentile per-packet one-way delay: 64.081 ms
Loss rate: 0.43%
```

Run 2: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 218.62 Mbit/s)   Flow 1 egress (mean 218.73 Mbit/s)
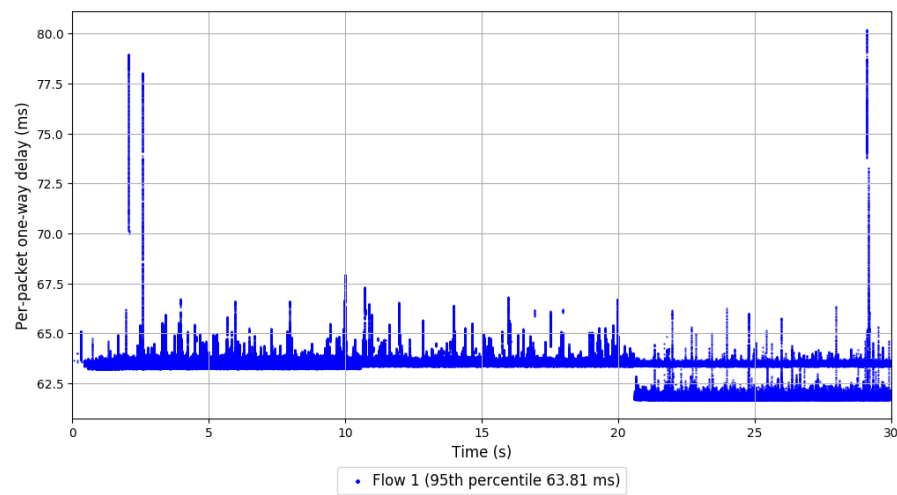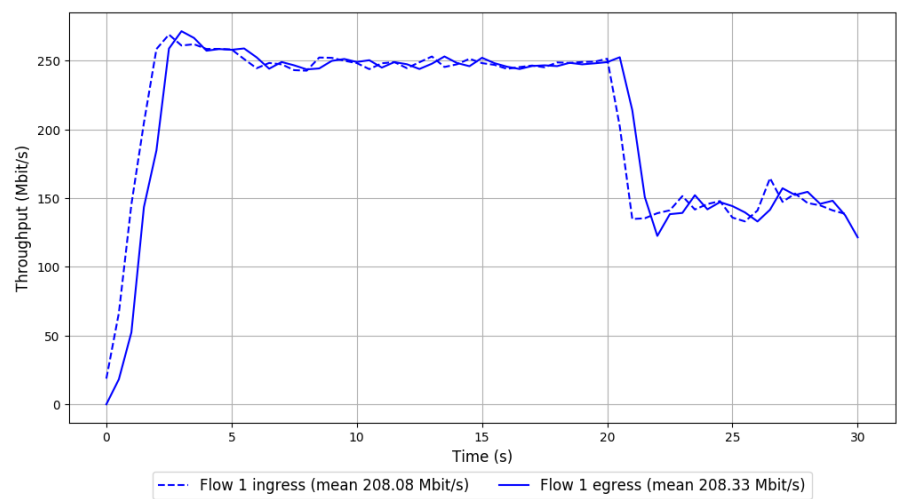

Flow 1 (95th percentile 64.08 ms)

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

Start at: 2018-06-06 13:18:50
End at: 2018-06-06 13:19:20
Local clock offset: -0.002 ms
Remote clock offset: -0.067 ms


# Below is generated by plot.py at 2018-06-06 17:09:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.33 Mbit/s
95th percentile per-packet one-way delay: 63.814 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 208.33 Mbit/s
95th percentile per-packet one-way delay: 63.814 ms
Loss rate: 0.29%
```
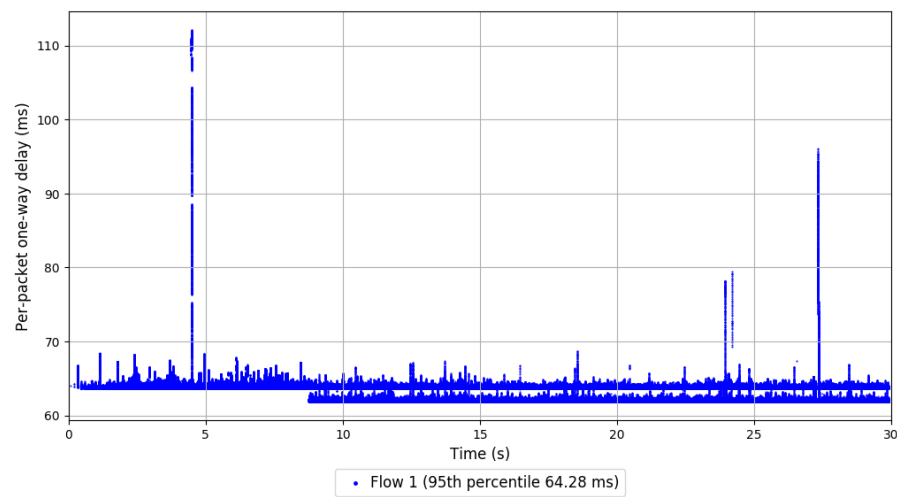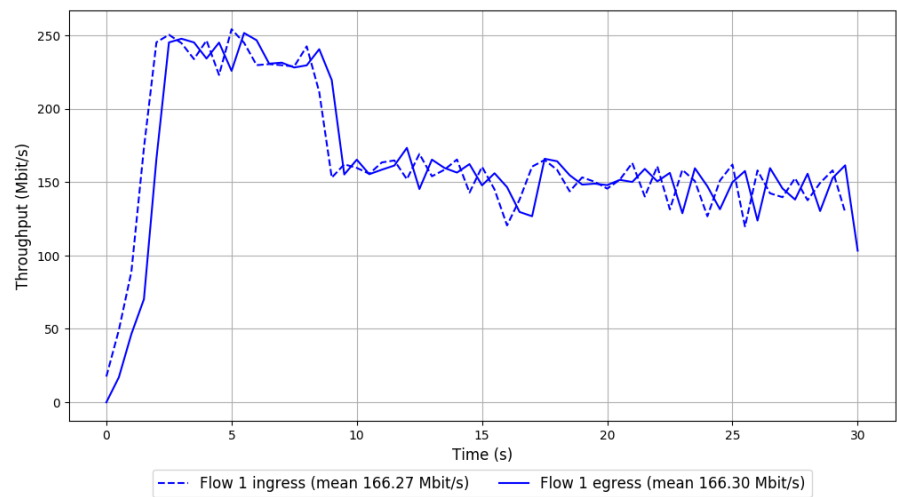
Run 3: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 208.08 Mbit/s)   Flow 1 egress (mean 208.33 Mbit/s)

Flow 1 (95th percentile 63.81 ms)

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

Start at: 2018-06-06 13:39:27
End at: 2018-06-06 13:39:57
Local clock offset: 0.088 ms
Remote clock offset: -0.108 ms


# Below is generated by plot.py at 2018-06-06 17:09:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 166.30 Mbit/s
95th percentile per-packet one-way delay: 64.276 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 166.30 Mbit/s
95th percentile per-packet one-way delay: 64.276 ms
Loss rate: 0.40%
```
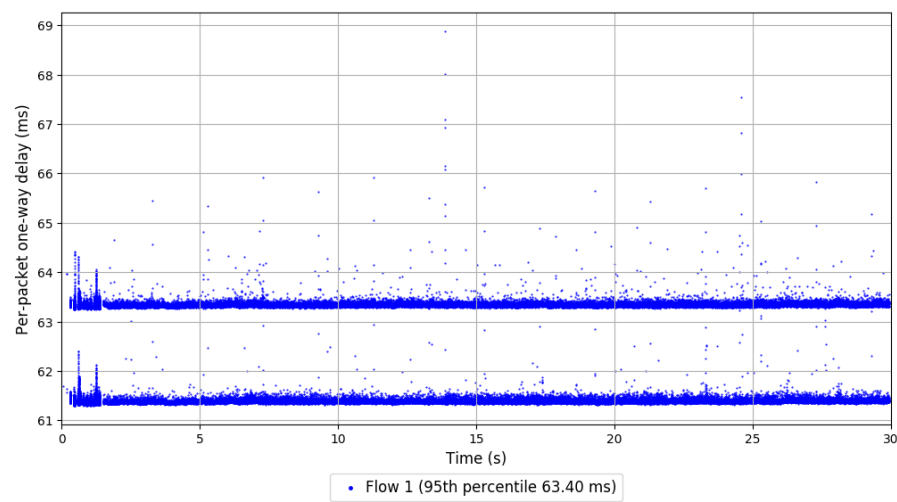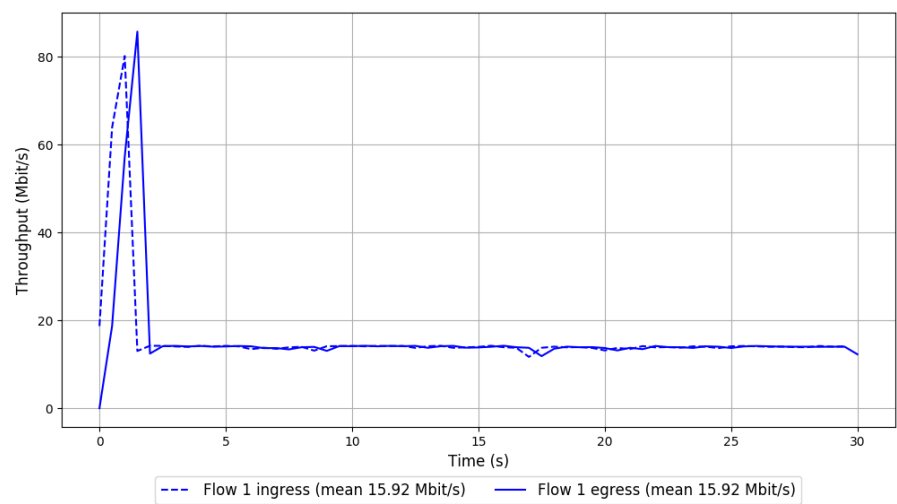
Run 4: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 166.27 Mbit/s) — — — Flow 1 egress (mean 166.30 Mbit/s)

Flow 1 (95th percentile 64.28 ms)

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

Start at: 2018-06-06 13:59:55
End at: 2018-06-06 14:00:25
Local clock offset: 0.074 ms
Remote clock offset: -0.042 ms


# Below is generated by plot.py at 2018-06-06 17:09:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 63.401 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 63.401 ms
Loss rate: 0.38%
```

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

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

Start at: 2018-06-06 14:20:09
End at: 2018-06-06 14:20:39
Local clock offset: -0.08 ms
Remote clock offset: -0.13 ms


# Below is generated by plot.py at 2018-06-06 17:09:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.11 Mbit/s
95th percentile per-packet one-way delay: 64.098 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 122.11 Mbit/s
95th percentile per-packet one-way delay: 64.098 ms
Loss rate: 0.86%
```
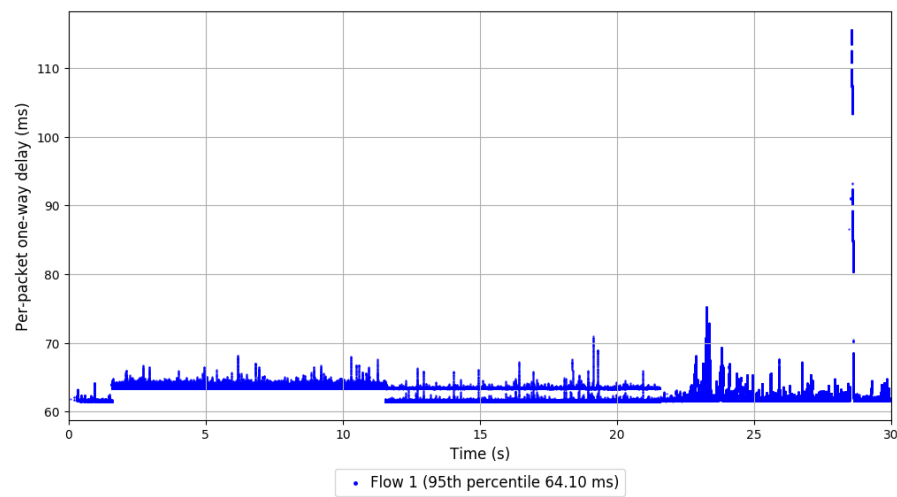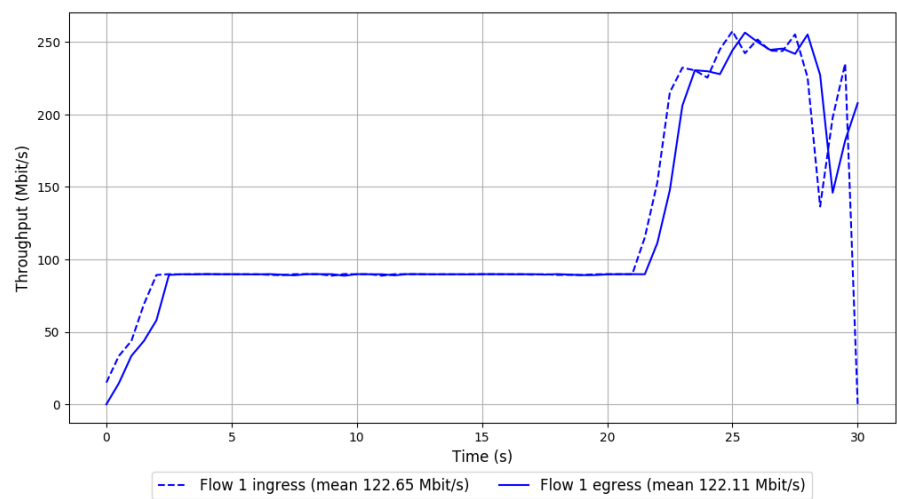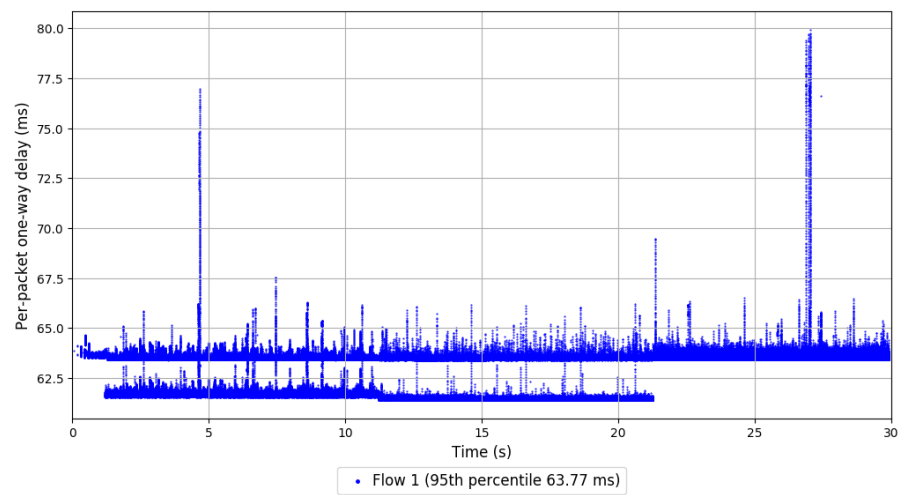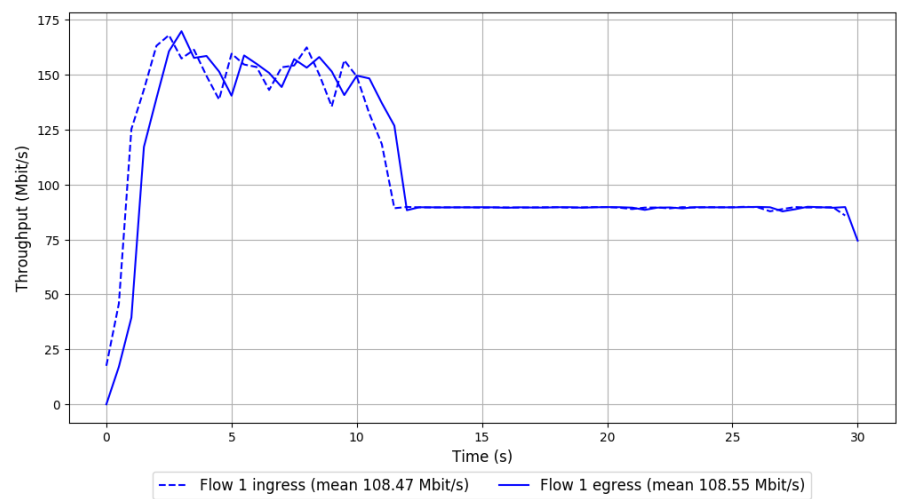
Run 6: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 122.65 Mbit/s) --- Flow 1 egress (mean 122.11 Mbit/s)
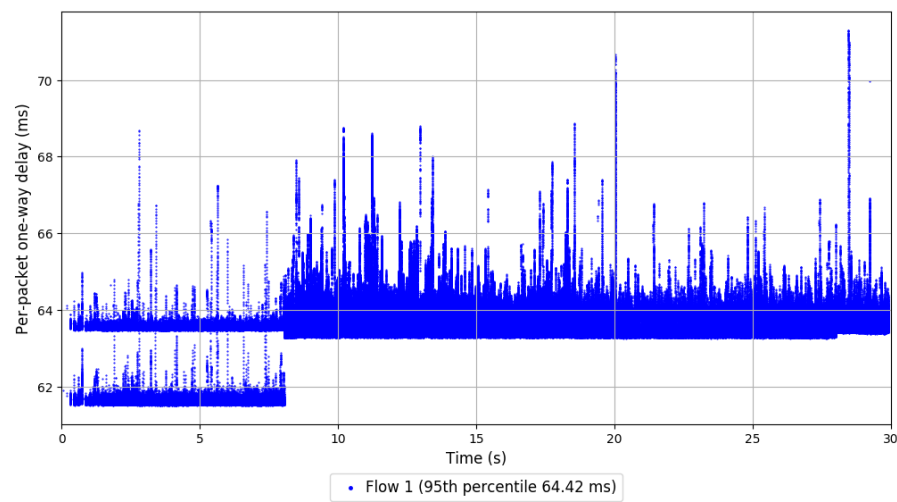

Flow 1 (95th percentile 64.10 ms)

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

Start at: 2018-06-06 14:40:29
End at: 2018-06-06 14:40:59
Local clock offset: -0.029 ms
Remote clock offset: -0.18 ms


# Below is generated by plot.py at 2018-06-06 17:09:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.55 Mbit/s
95th percentile per-packet one-way delay: 63.774 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 108.55 Mbit/s
95th percentile per-packet one-way delay: 63.774 ms
Loss rate: 0.35%
```

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

Flow 1 ingress (mean 108.47 Mbit/s) Flow 1 egress (mean 108.55 Mbit/s)
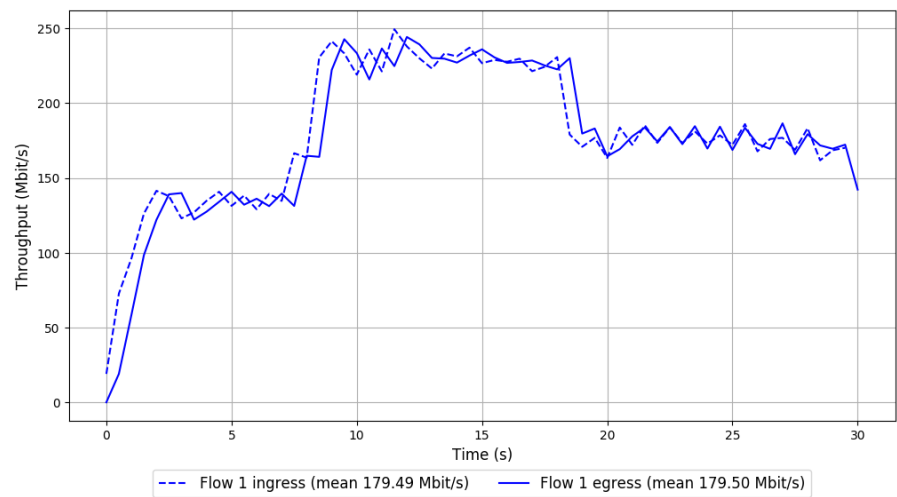

Flow 1 (95th percentile 63.77 ms)

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

Start at: 2018-06-06 15:01:02
End at: 2018-06-06 15:01:32
Local clock offset: -0.018 ms
Remote clock offset: -0.097 ms


# Below is generated by plot.py at 2018-06-06 17:10:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.50 Mbit/s
95th percentile per-packet one-way delay: 64.415 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 179.50 Mbit/s
95th percentile per-packet one-way delay: 64.415 ms
Loss rate: 0.42%
```
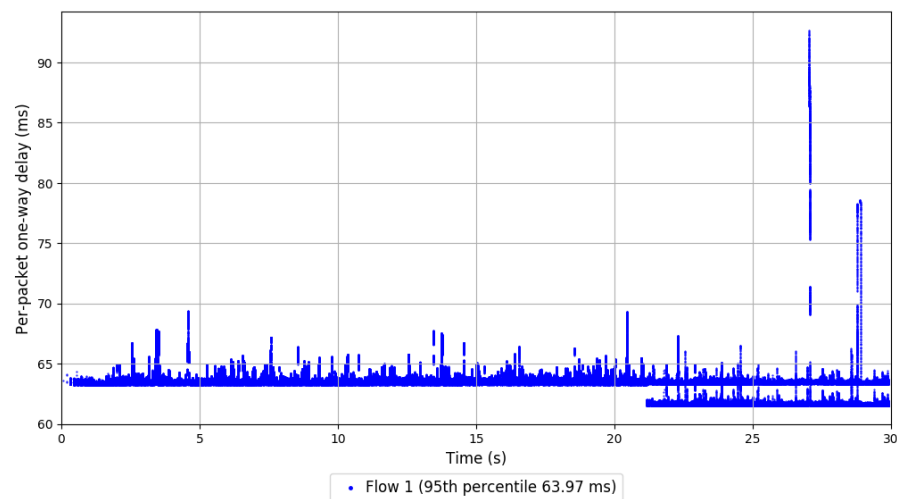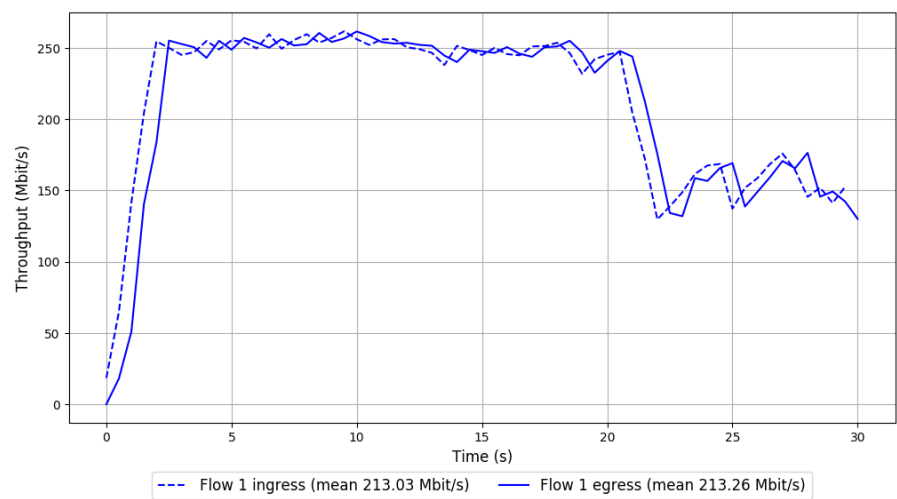
Run 8: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 179.49 Mbit/s)   Flow 1 egress (mean 179.50 Mbit/s)

Flow 1 (95th percentile 64.42 ms)

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

Start at: 2018-06-06 15:21:39
End at: 2018-06-06 15:22:09
Local clock offset: -0.025 ms
Remote clock offset: -0.07 ms


# Below is generated by plot.py at 2018-06-06 17:12:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.26 Mbit/s
95th percentile per-packet one-way delay: 63.973 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 213.26 Mbit/s
95th percentile per-packet one-way delay: 63.973 ms
Loss rate: 0.31%
```
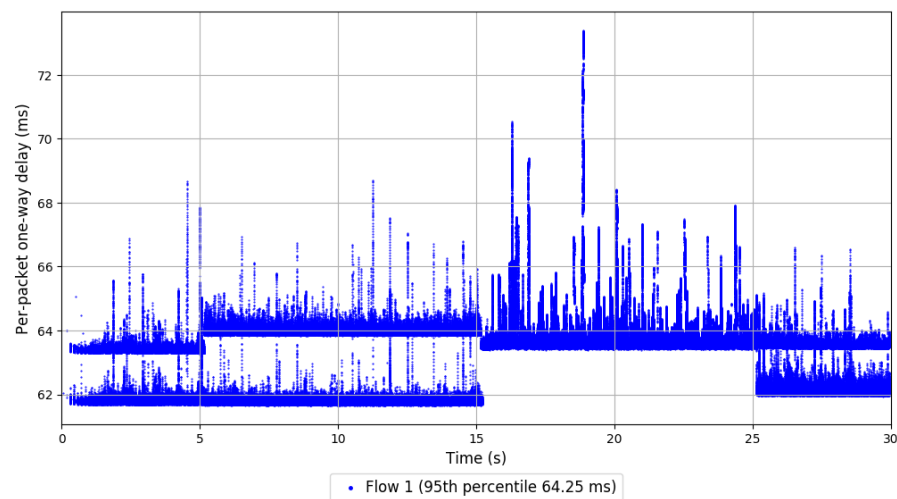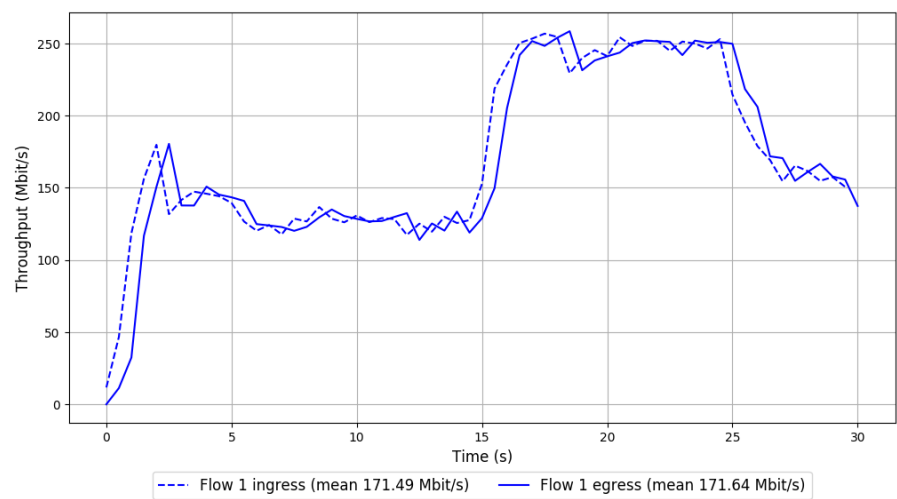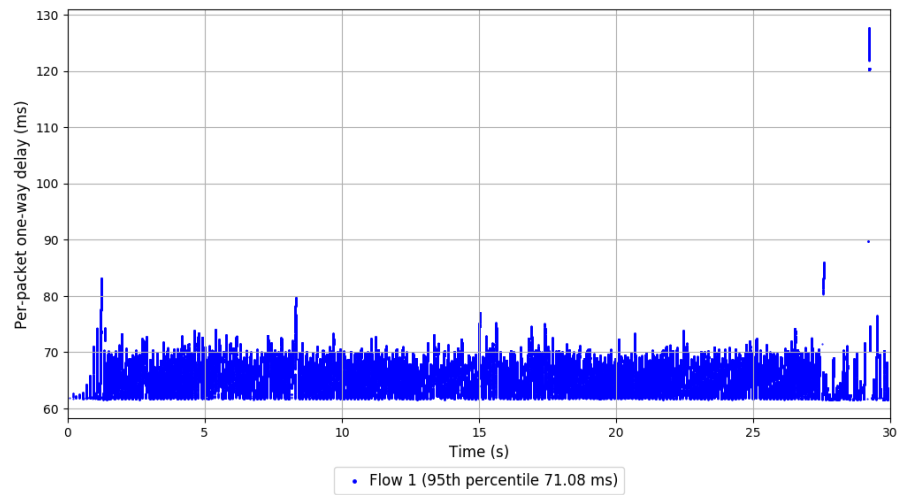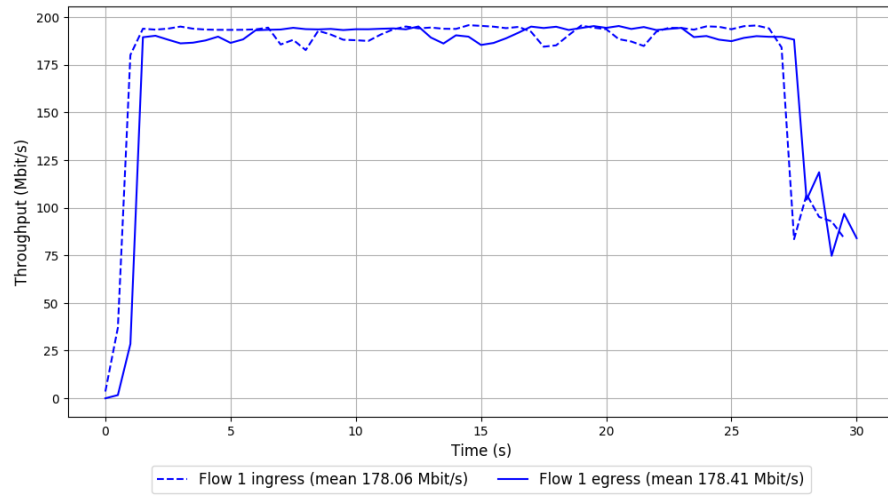
Run 9: Report of TaoVA-100x — Data Link

Flow 1 ingress (mean 213.03 Mbit/s)   Flow 1 egress (mean 213.26 Mbit/s)

• Flow 1 (95th percentile 63.97 ms)

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

Start at: 2018-06-06 15:42:05
End at: 2018-06-06 15:42:35
Local clock offset: -0.017 ms
Remote clock offset: -0.131 ms


# Below is generated by plot.py at 2018-06-06 17:12:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.64 Mbit/s
95th percentile per-packet one-way delay: 64.252 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 171.64 Mbit/s
95th percentile per-packet one-way delay: 64.252 ms
Loss rate: 0.33%
```

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

Flow 1 ingress (mean 171.49 Mbit/s) — Flow 1 egress (mean 171.64 Mbit/s)
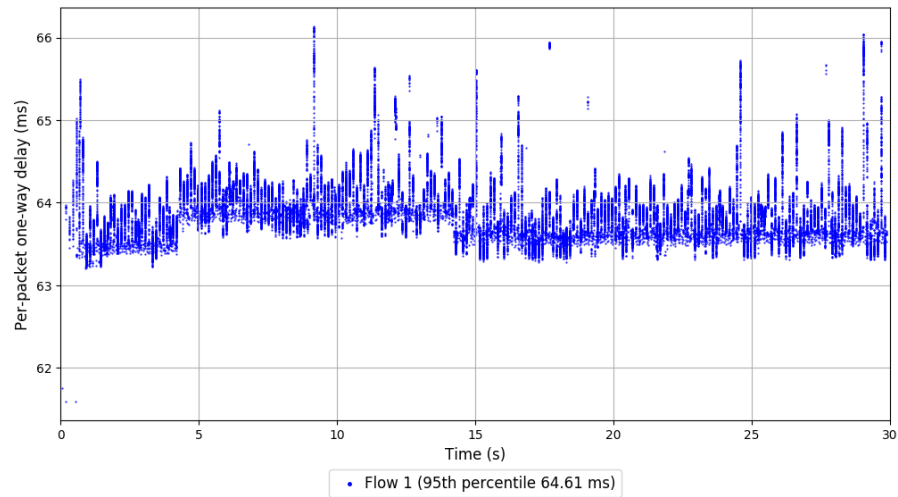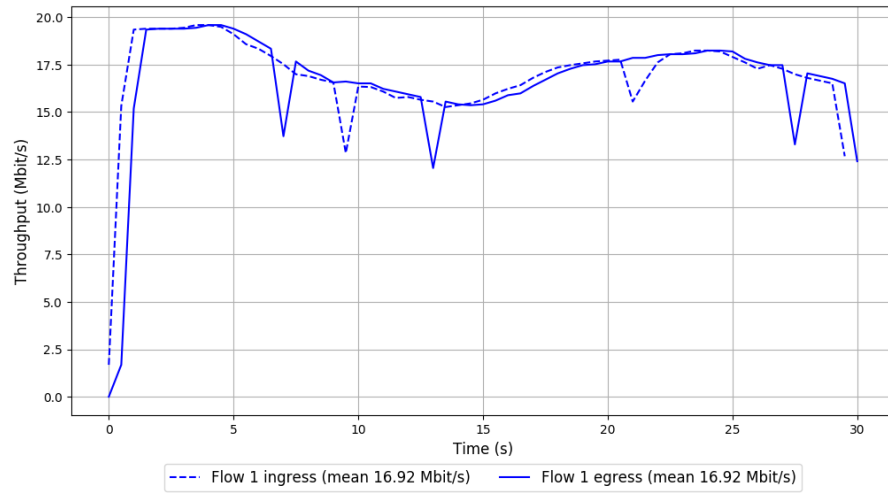

Flow 1 (95th percentile 64.25 ms)

243

```
Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 12:30:27
End at: 2018-06-06 12:30:57
Local clock offset: -0.04 ms
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-06-06 17:12:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.41 Mbit/s
95th percentile per-packet one-way delay: 71.075 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 178.41 Mbit/s
95th percentile per-packet one-way delay: 71.075 ms
Loss rate: 0.21%
```
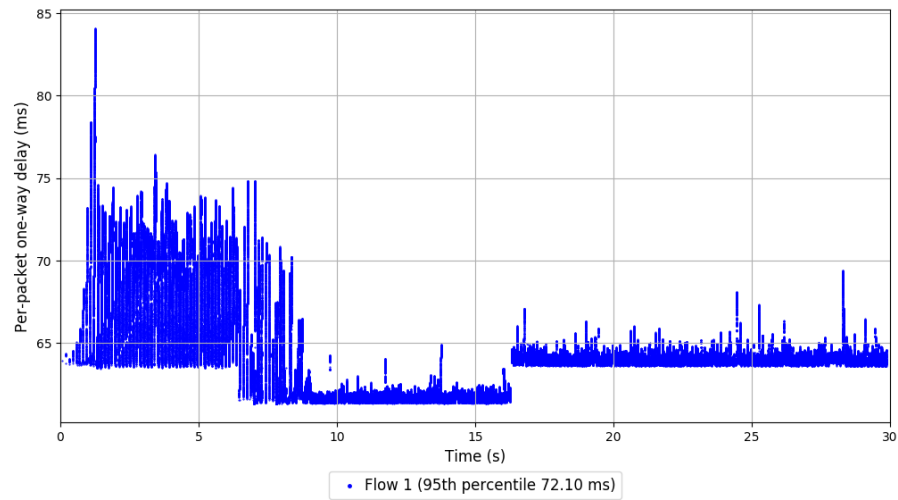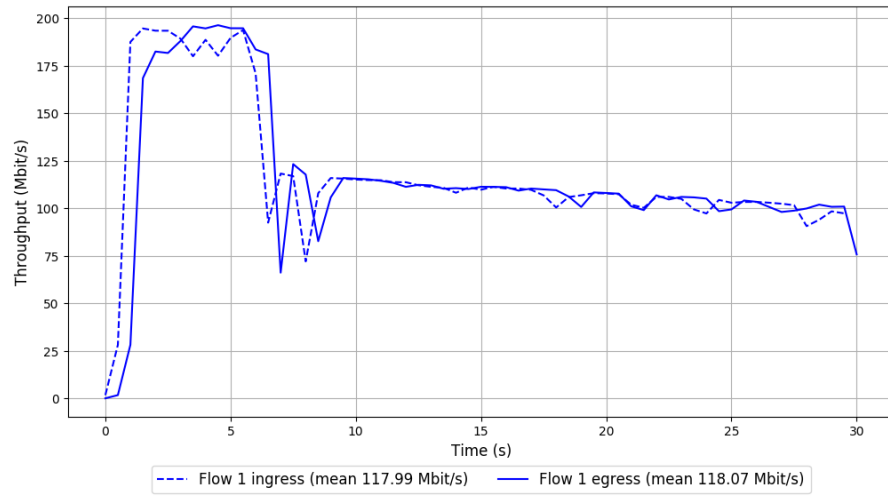
Run 1: Report of TCP Vegas — Data Link

245

```
Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 12:50:56
End at: 2018-06-06 12:51:26
Local clock offset: 0.001 ms
Remote clock offset: -0.088 ms


# Below is generated by plot.py at 2018-06-06 17:12:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.92 Mbit/s
95th percentile per-packet one-way delay: 64.612 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 16.92 Mbit/s
95th percentile per-packet one-way delay: 64.612 ms
Loss rate: 0.41%
```

Run 2: Report of TCP Vegas — Data Link

```
Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 13:11:24
End at: 2018-06-06 13:11:54
Local clock offset: -0.041 ms
Remote clock offset: -0.084 ms


# Below is generated by plot.py at 2018-06-06 17:12:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 118.07 Mbit/s
95th percentile per-packet one-way delay: 72.096 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 118.07 Mbit/s
95th percentile per-packet one-way delay: 72.096 ms
Loss rate: 0.36%
```
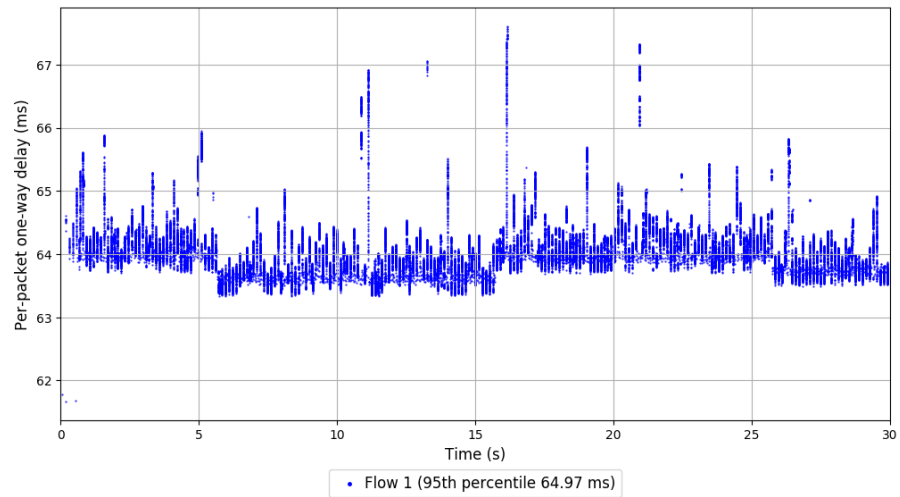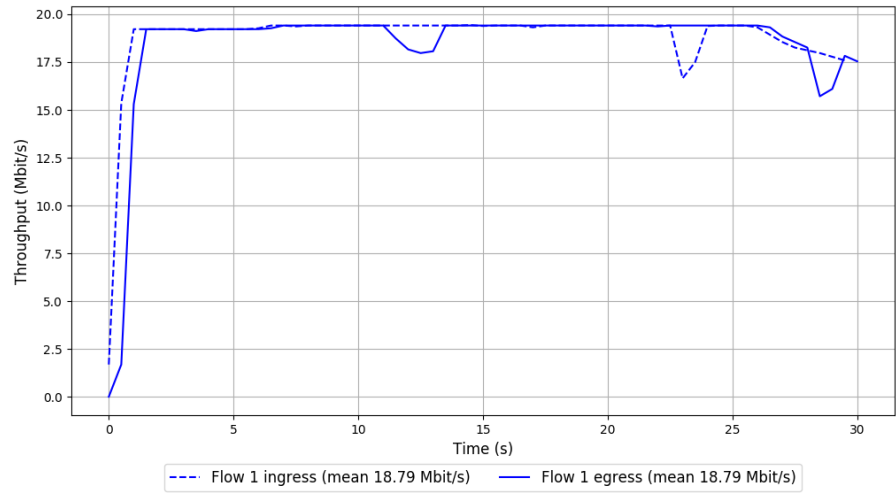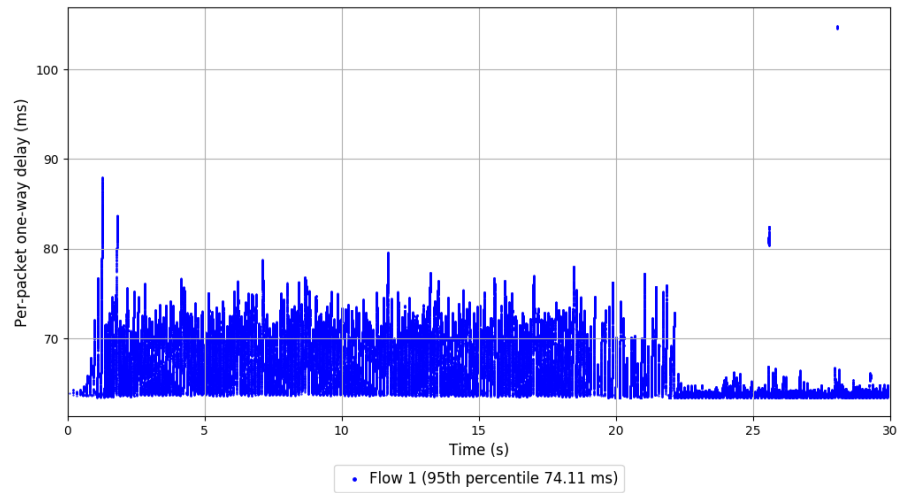
Run 3: Report of TCP Vegas — Data Link

```
Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 13:32:05
End at: 2018-06-06 13:32:35
Local clock offset: 0.029 ms
Remote clock offset: -0.16 ms


# Below is generated by plot.py at 2018-06-06 17:12:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.79 Mbit/s
95th percentile per-packet one-way delay: 64.968 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 18.79 Mbit/s
95th percentile per-packet one-way delay: 64.968 ms
Loss rate: 0.39%
```
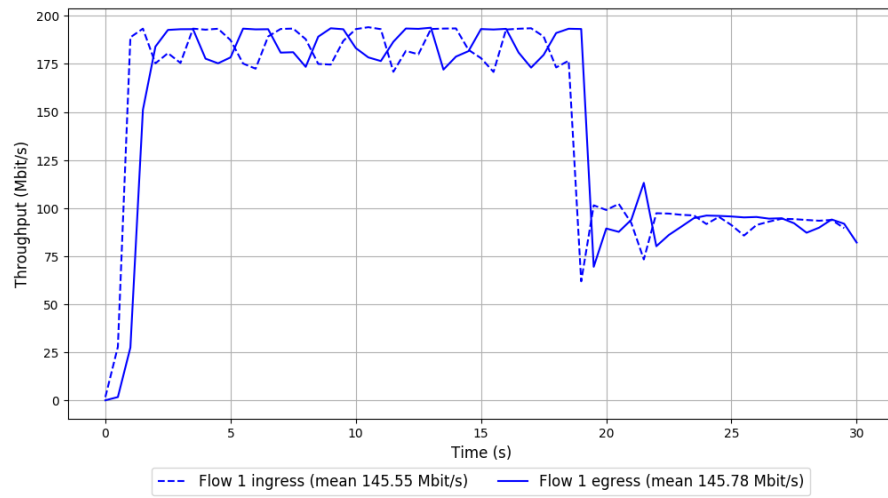
Run 4: Report of TCP Vegas — Data Link

```
Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 13:52:28
End at: 2018-06-06 13:52:58
Local clock offset: 0.132 ms
Remote clock offset: -0.112 ms


# Below is generated by plot.py at 2018-06-06 17:12:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.78 Mbit/s
95th percentile per-packet one-way delay: 74.113 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 145.78 Mbit/s
95th percentile per-packet one-way delay: 74.113 ms
Loss rate: 0.26%
```

Run 5: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 145.55 Mbit/s) ——— Flow 1 egress (mean 145.78 Mbit/s)
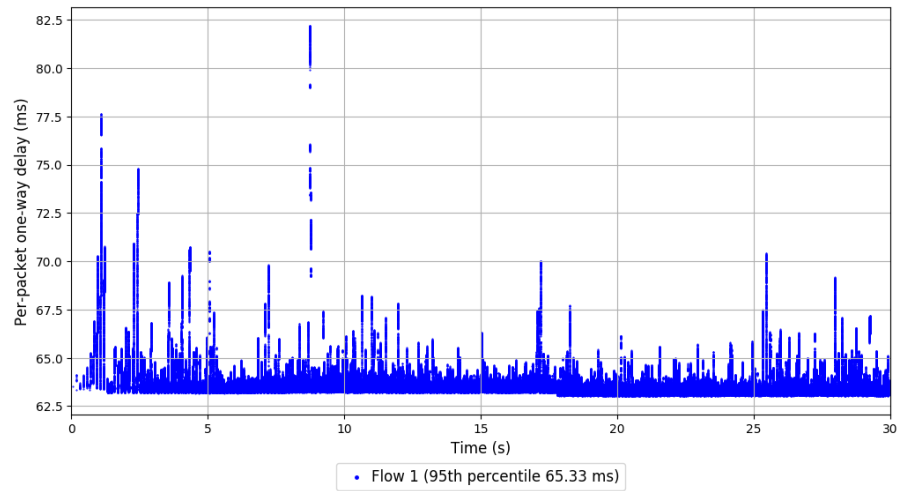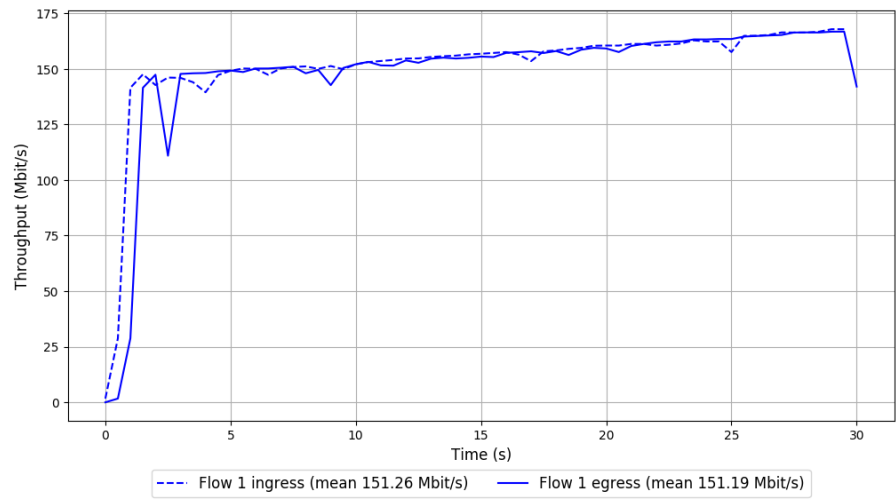

• Flow 1 (95th percentile 74.11 ms)

```
Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 14:12:43
End at: 2018-06-06 14:13:13
Local clock offset: -0.152 ms
Remote clock offset: -0.022 ms


# Below is generated by plot.py at 2018-06-06 17:12:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.19 Mbit/s
95th percentile per-packet one-way delay: 65.329 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 151.19 Mbit/s
95th percentile per-packet one-way delay: 65.329 ms
Loss rate: 0.46%
```
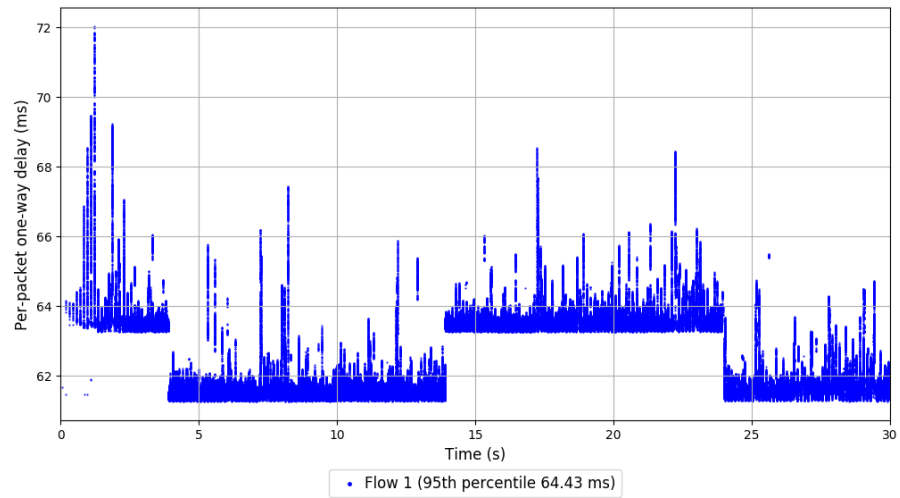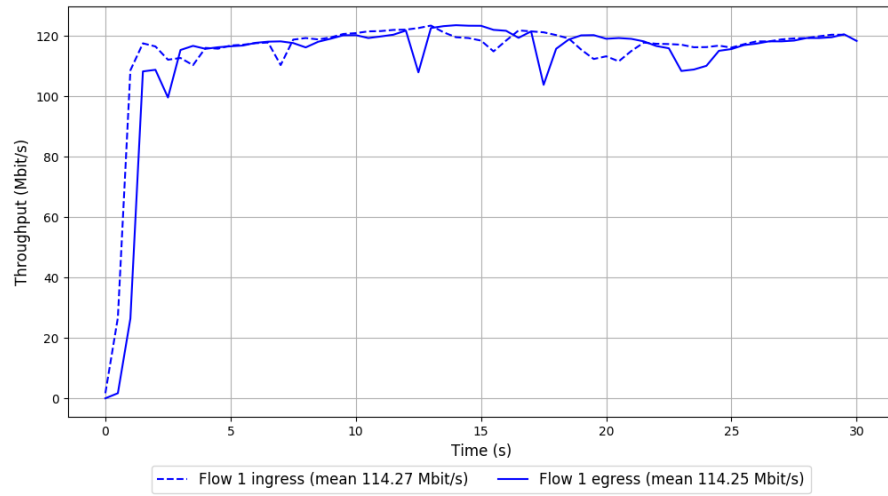
Run 6: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 151.26 Mbit/s)   Flow 1 egress (mean 151.19 Mbit/s)
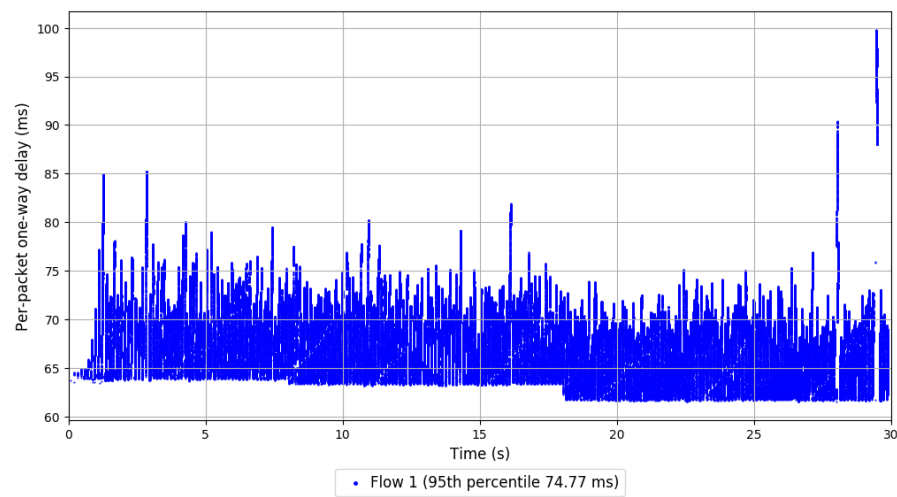

Flow 1 (95th percentile 65.33 ms)

```
Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 14:33:07
End at: 2018-06-06 14:33:37
Local clock offset: -0.174 ms
Remote clock offset: 0.042 ms


# Below is generated by plot.py at 2018-06-06 17:12:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.25 Mbit/s
95th percentile per-packet one-way delay: 64.431 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 114.25 Mbit/s
95th percentile per-packet one-way delay: 64.431 ms
Loss rate: 0.44%
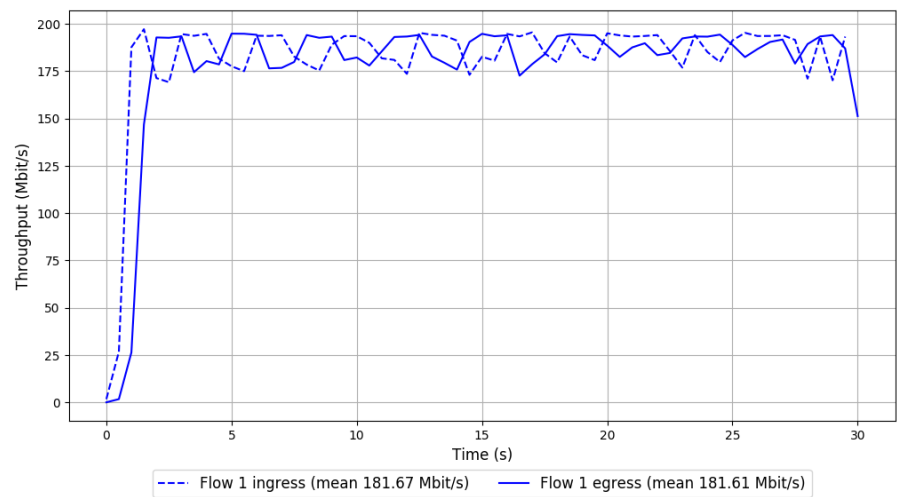```

Run 7: Report of TCP Vegas — Data Link

```
Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 14:53:32
End at: 2018-06-06 14:54:02
Local clock offset: -0.026 ms
Remote clock offset: -0.075 ms


# Below is generated by plot.py at 2018-06-06 17:13:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.61 Mbit/s
95th percentile per-packet one-way delay: 74.766 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 181.61 Mbit/s
95th percentile per-packet one-way delay: 74.766 ms
Loss rate: 0.44%
```

Run 8: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 181.67 Mbit/s) --- Flow 1 egress (mean 181.61 Mbit/s)
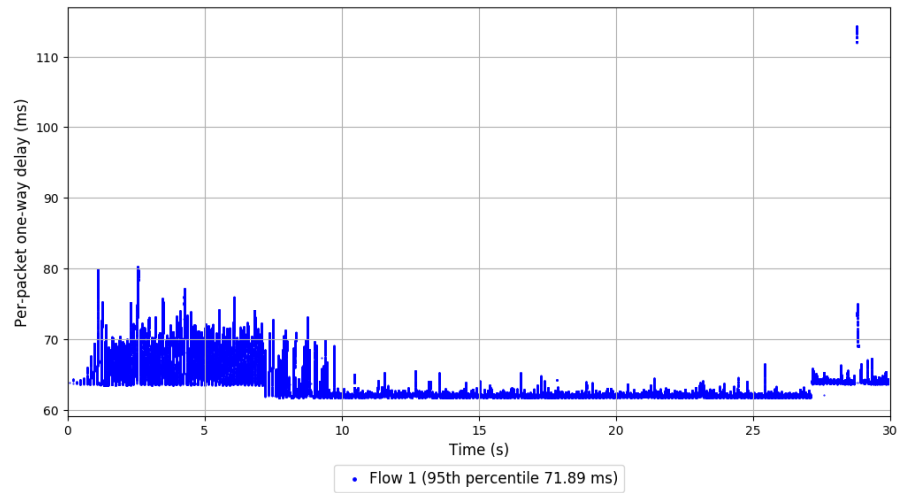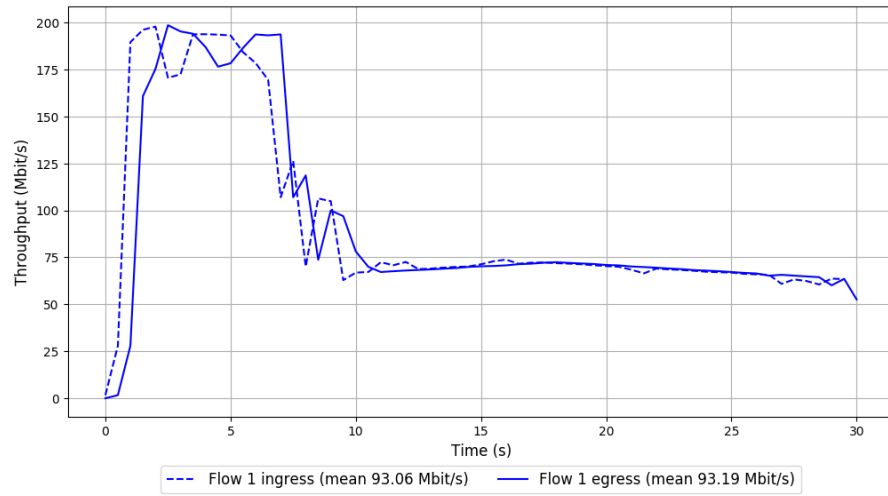

Flow 1 (95th percentile 74.77 ms)

```
Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 15:14:13
End at: 2018-06-06 15:14:43
Local clock offset: -0.053 ms
Remote clock offset: -0.283 ms


# Below is generated by plot.py at 2018-06-06 17:13:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 71.892 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 93.19 Mbit/s
95th percentile per-packet one-way delay: 71.892 ms
Loss rate: 0.28%
```
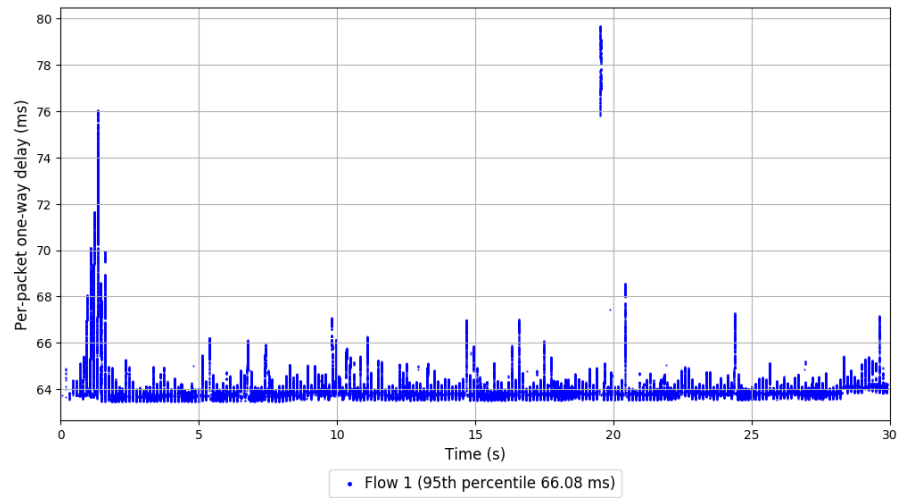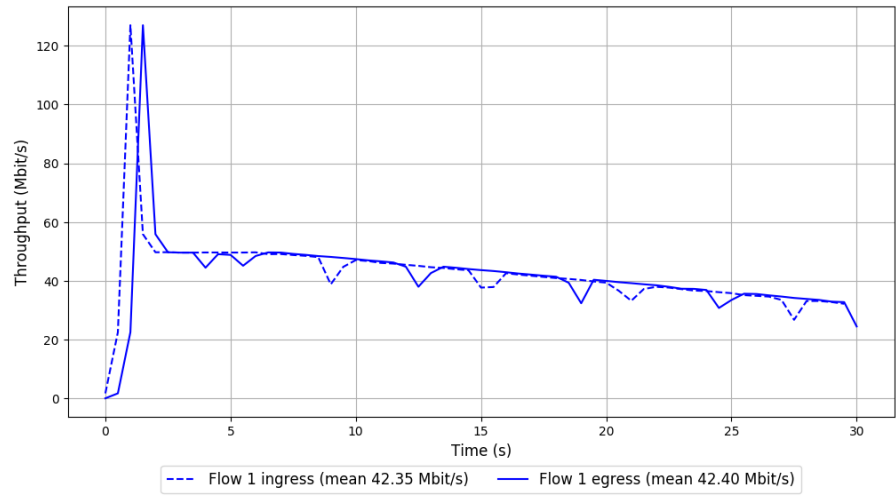
Run 9: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 93.06 Mbit/s)   Flow 1 egress (mean 93.19 Mbit/s)

Flow 1 (95th percentile 71.89 ms)

```
Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 15:34:52
End at: 2018-06-06 15:35:22
Local clock offset: -0.022 ms
Remote clock offset: -0.121 ms


# Below is generated by plot.py at 2018-06-06 17:13:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.40 Mbit/s
95th percentile per-packet one-way delay: 66.077 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 42.40 Mbit/s
95th percentile per-packet one-way delay: 66.077 ms
Loss rate: 0.32%
```
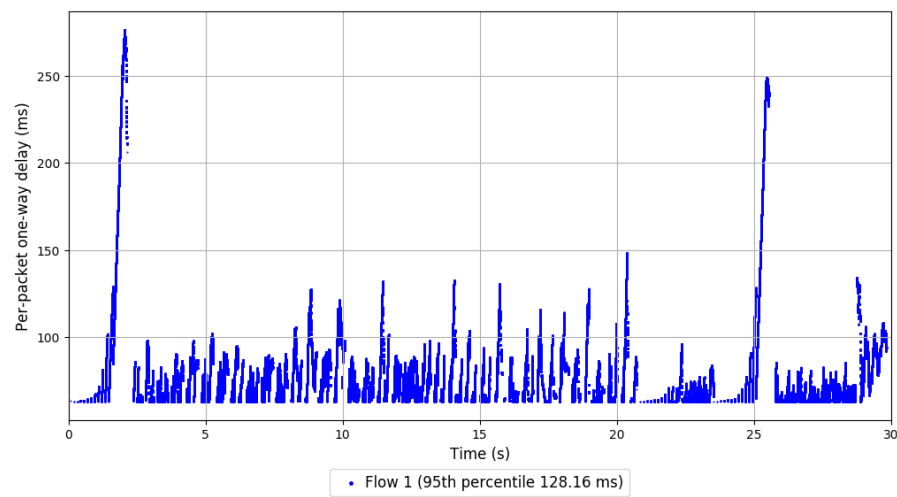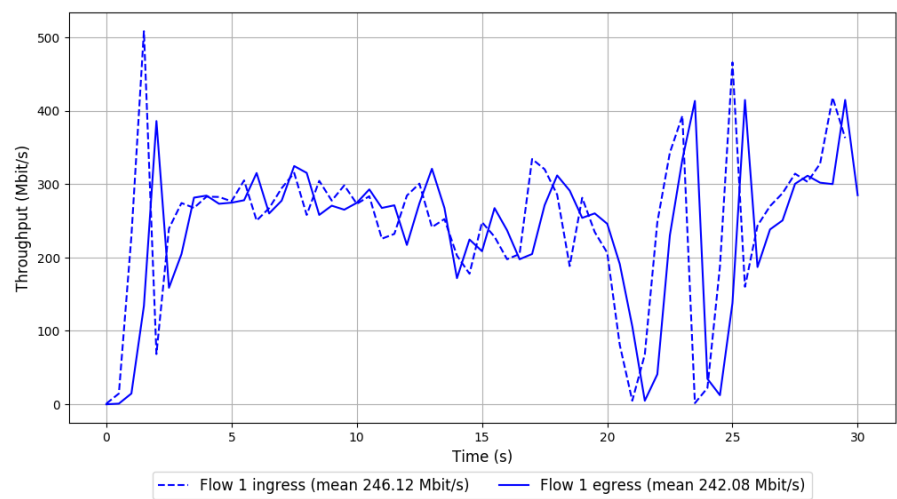
Run 10: Report of TCP Vegas — Data Link

Flow 1 ingress (mean 42.35 Mbit/s)   Flow 1 egress (mean 42.40 Mbit/s)

Flow 1 (95th percentile 66.08 ms)

```
Run 1: Statistics of Verus

Start at: 2018-06-06 12:41:43
End at: 2018-06-06 12:42:13
Local clock offset: -0.04 ms
Remote clock offset: 0.218 ms


# Below is generated by plot.py at 2018-06-06 17:15:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.08 Mbit/s
95th percentile per-packet one-way delay: 128.158 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 242.08 Mbit/s
95th percentile per-packet one-way delay: 128.158 ms
Loss rate: 2.06%
```

Run 1: Report of Verus — Data Link

```
Run 2: Statistics of Verus

Start at: 2018-06-06 13:02:10
End at: 2018-06-06 13:02:40
Local clock offset: -0.006 ms
Remote clock offset: 0.179 ms

# Below is generated by plot.py at 2018-06-06 17:16:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.76 Mbit/s
95th percentile per-packet one-way delay: 102.557 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 238.76 Mbit/s
95th percentile per-packet one-way delay: 102.557 ms
Loss rate: 0.97%
```
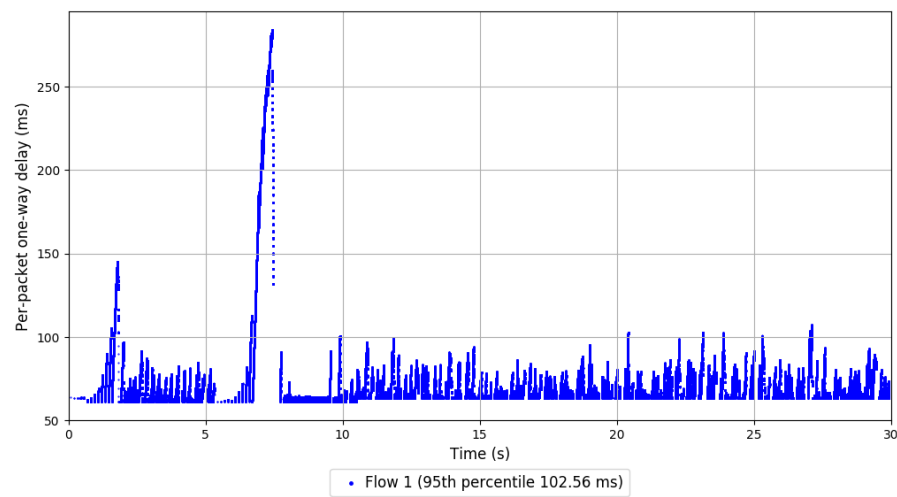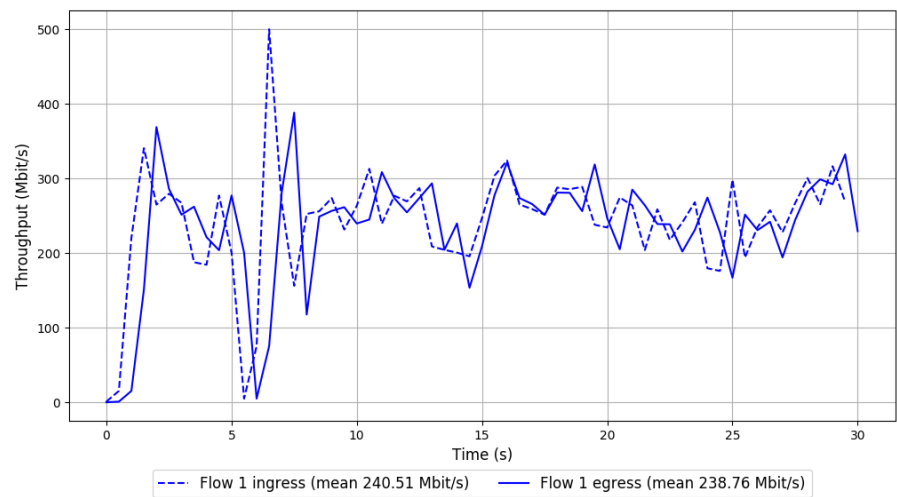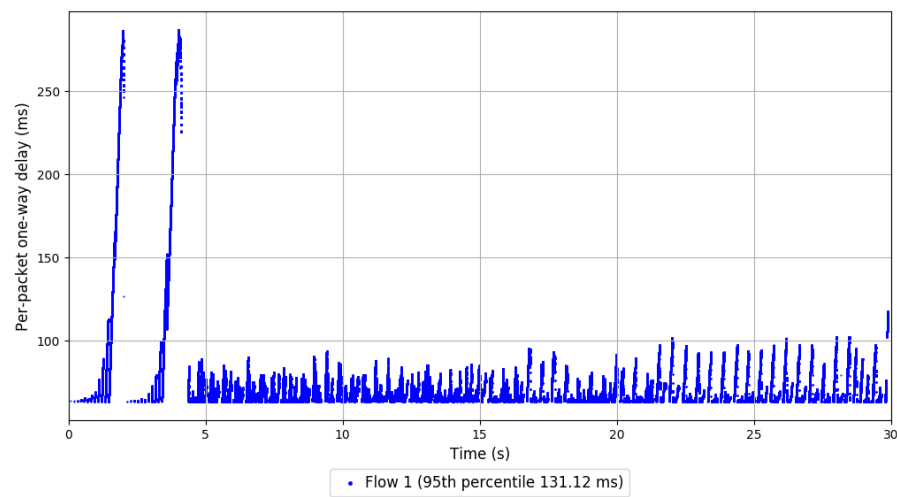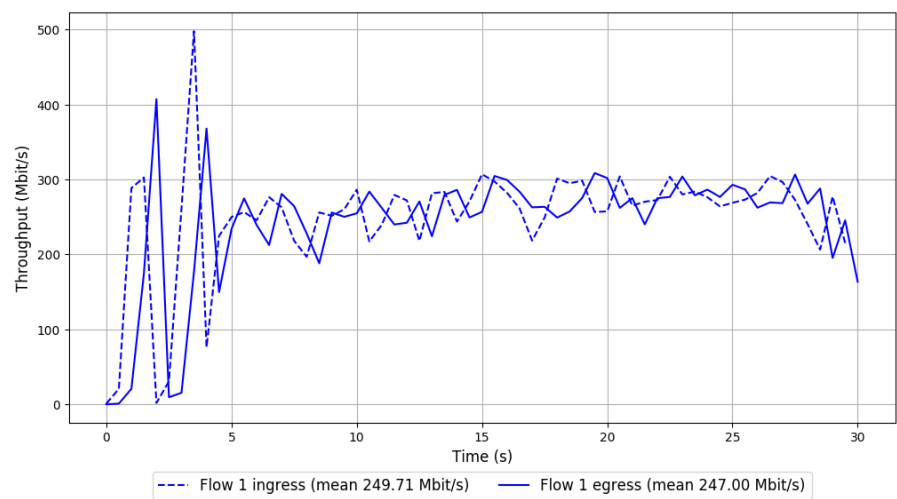
Run 2: Report of Verus — Data Link

```
Run 3: Statistics of Verus

Start at: 2018-06-06 13:22:42
End at: 2018-06-06 13:23:12
Local clock offset: -0.014 ms
Remote clock offset: -0.098 ms


# Below is generated by plot.py at 2018-06-06 17:16:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.00 Mbit/s
95th percentile per-packet one-way delay: 131.118 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 247.00 Mbit/s
95th percentile per-packet one-way delay: 131.118 ms
Loss rate: 1.50%
```
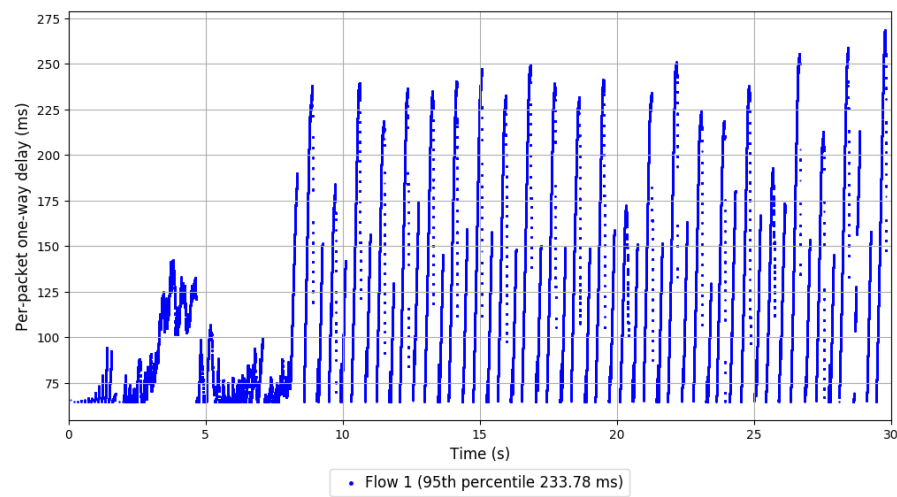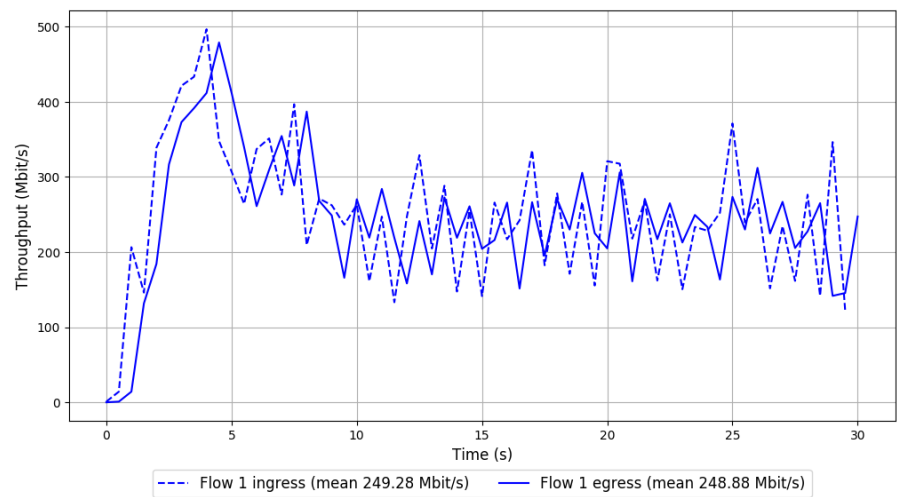
Run 3: Report of Verus — Data Link

```
Run 4: Statistics of Verus

Start at: 2018-06-06 13:43:18
End at: 2018-06-06 13:43:48
Local clock offset: 0.096 ms
Remote clock offset: -0.979 ms


# Below is generated by plot.py at 2018-06-06 17:16:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.88 Mbit/s
95th percentile per-packet one-way delay: 233.781 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 248.88 Mbit/s
95th percentile per-packet one-way delay: 233.781 ms
Loss rate: 0.91%
```

Run 4: Report of Verus — Data Link

Flow 1 ingress (mean 249.28 Mbit/s)   Flow 1 egress (mean 248.88 Mbit/s)

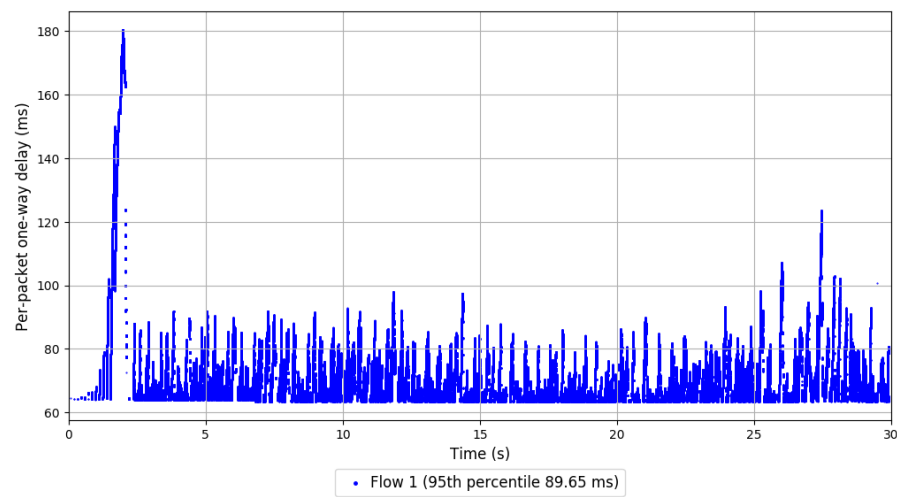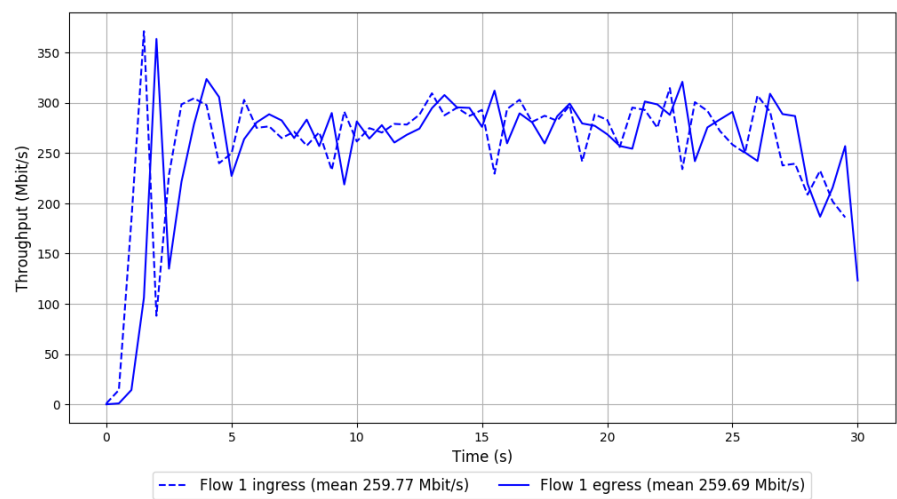• Flow 1 (95th percentile 233.78 ms)

```
Run 5: Statistics of Verus

Start at: 2018-06-06 14:03:34
End at: 2018-06-06 14:04:04
Local clock offset: 0.045 ms
Remote clock offset: -0.146 ms


# Below is generated by plot.py at 2018-06-06 17:16:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 259.69 Mbit/s
95th percentile per-packet one-way delay: 89.651 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 259.69 Mbit/s
95th percentile per-packet one-way delay: 89.651 ms
Loss rate: 0.46%
```

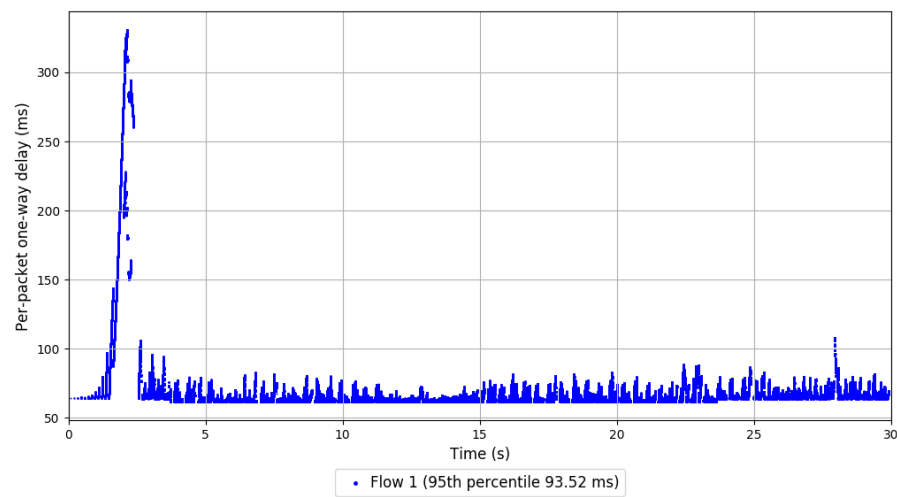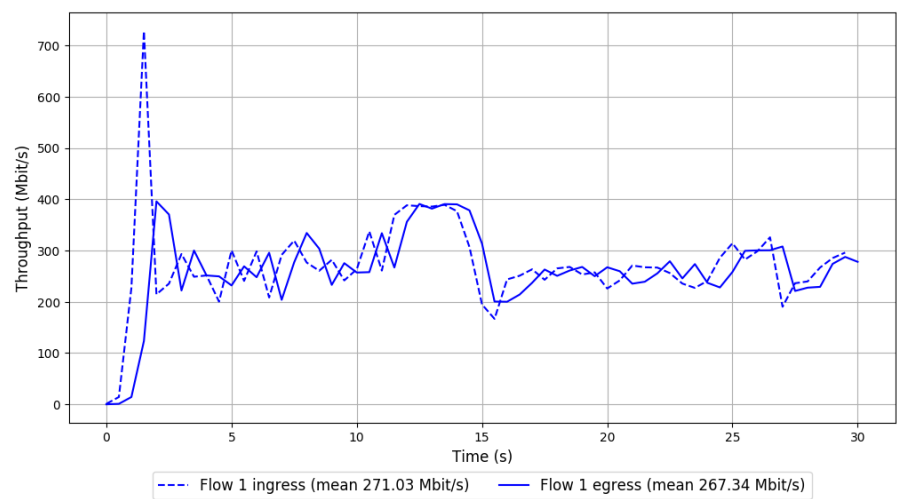## Run 5: Report of Verus — Data Link

```
Run 6: Statistics of Verus

Start at: 2018-06-06 14:23:57
End at: 2018-06-06 14:24:27
Local clock offset: -0.051 ms
Remote clock offset: -0.052 ms


# Below is generated by plot.py at 2018-06-06 17:17:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 267.34 Mbit/s
95th percentile per-packet one-way delay: 93.517 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 267.34 Mbit/s
95th percentile per-packet one-way delay: 93.517 ms
Loss rate: 1.80%
```
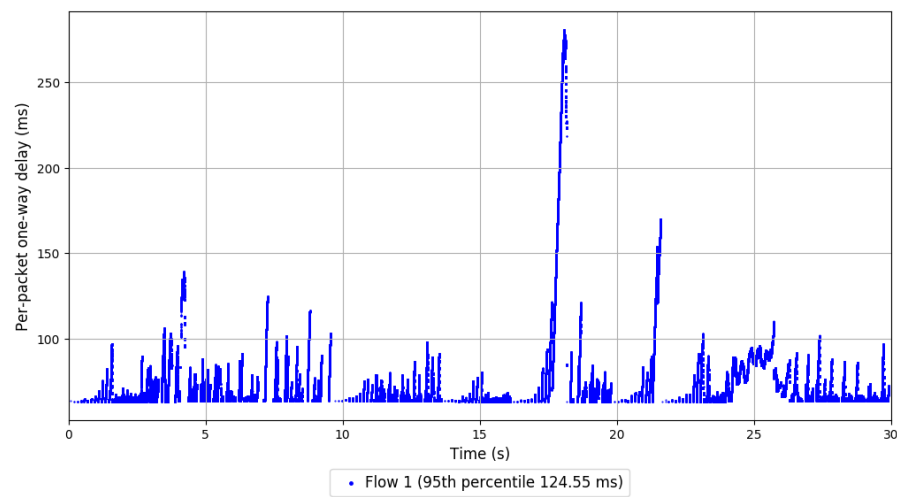
Run 6: Report of Verus — Data Link

Flow 1 ingress (mean 271.03 Mbit/s) — — — Flow 1 egress (mean 267.34 Mbit/s)

Flow 1 (95th percentile 93.52 ms)

```
Run 7: Statistics of Verus

Start at: 2018-06-06 14:44:16
End at: 2018-06-06 14:44:47
Local clock offset: -0.037 ms
Remote clock offset: 0.059 ms


# Below is generated by plot.py at 2018-06-06 17:17:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.05 Mbit/s
95th percentile per-packet one-way delay: 124.549 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 196.05 Mbit/s
95th percentile per-packet one-way delay: 124.549 ms
Loss rate: 0.91%
```
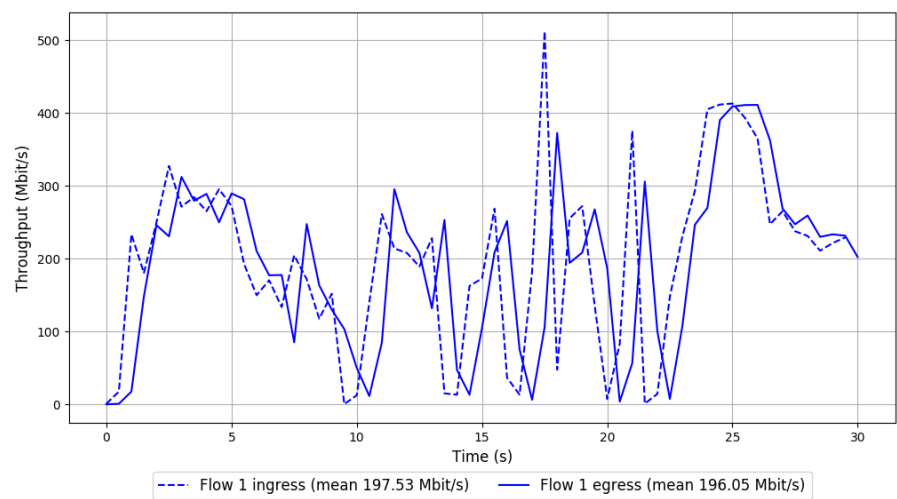
Run 7: Report of Verus — Data Link

Flow 1 ingress (mean 197.53 Mbit/s) — — — Flow 1 egress (mean 196.05 Mbit/s)

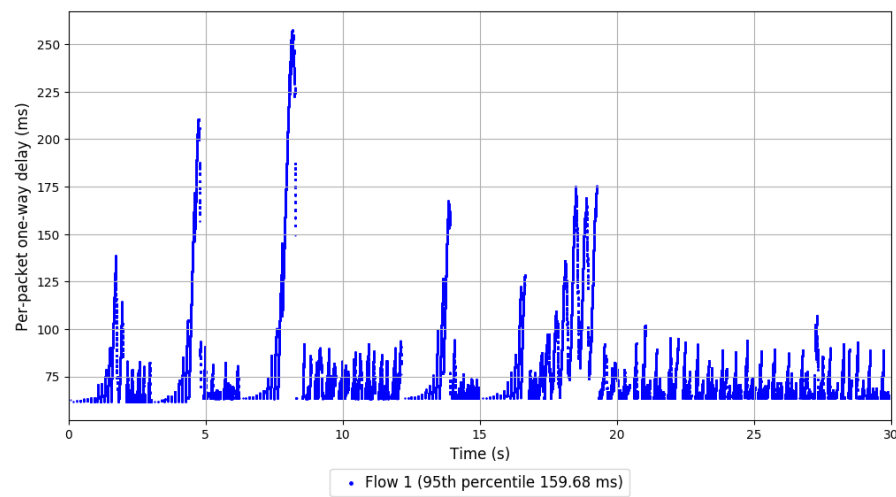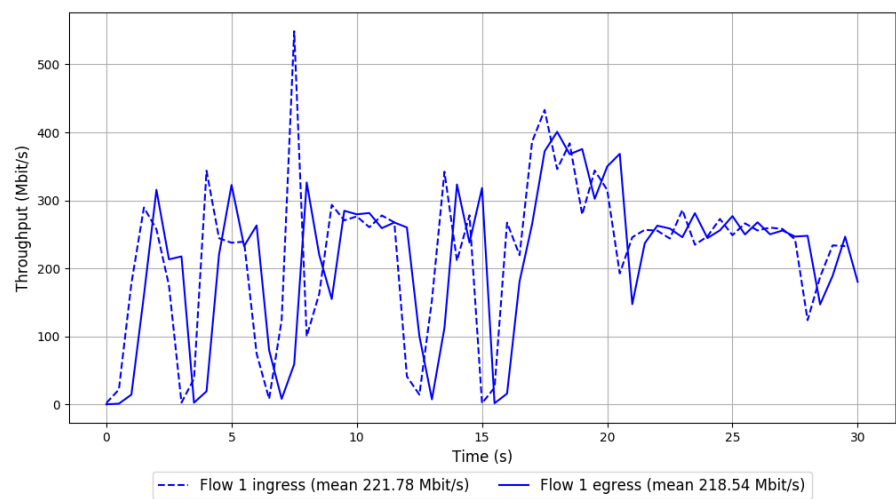• Flow 1 (95th percentile 124.55 ms)

```
Run 8: Statistics of Verus

Start at: 2018-06-06 15:04:56
End at: 2018-06-06 15:05:26
Local clock offset: -0.003 ms
Remote clock offset: -0.195 ms


# Below is generated by plot.py at 2018-06-06 17:17:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.54 Mbit/s
95th percentile per-packet one-way delay: 159.683 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 218.54 Mbit/s
95th percentile per-packet one-way delay: 159.683 ms
Loss rate: 1.68%
```
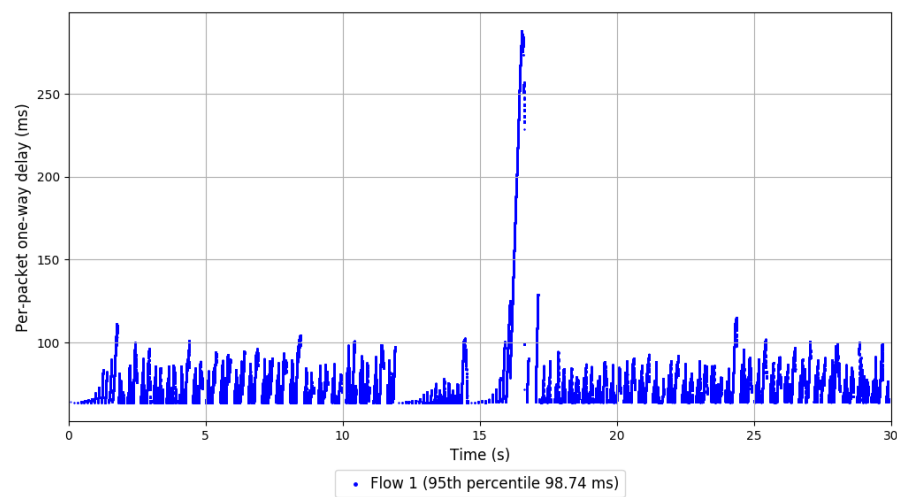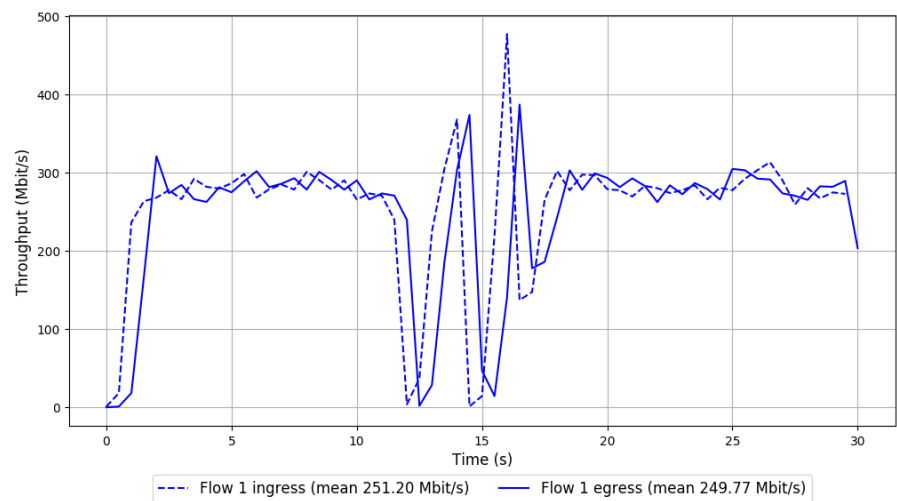
Run 8: Report of Verus — Data Link

```
Run 9: Statistics of Verus

Start at: 2018-06-06 15:25:35
End at: 2018-06-06 15:26:05
Local clock offset: -0.017 ms
Remote clock offset: -0.293 ms


# Below is generated by plot.py at 2018-06-06 17:19:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.77 Mbit/s
95th percentile per-packet one-way delay: 98.736 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 249.77 Mbit/s
95th percentile per-packet one-way delay: 98.736 ms
Loss rate: 1.00%
```
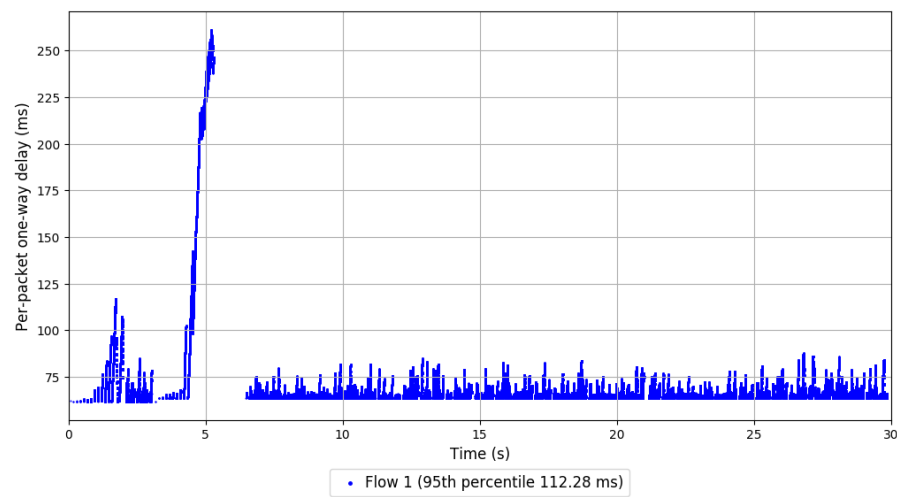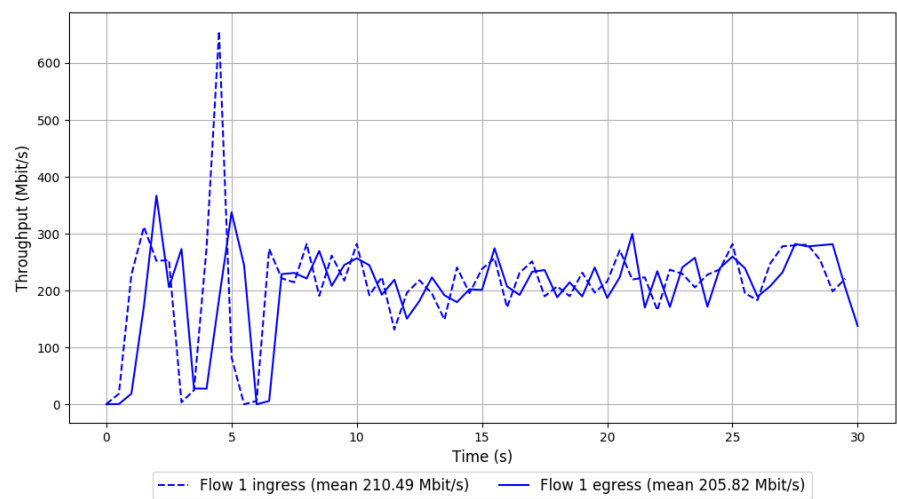
Run 9: Report of Verus — Data Link

```
Run 10: Statistics of Verus

Start at: 2018-06-06 15:45:57
End at: 2018-06-06 15:46:27
Local clock offset: -0.035 ms
Remote clock offset: -0.097 ms


# Below is generated by plot.py at 2018-06-06 17:19:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.82 Mbit/s
95th percentile per-packet one-way delay: 112.282 ms
Loss rate: 2.63%
-- Flow 1:
Average throughput: 205.82 Mbit/s
95th percentile per-packet one-way delay: 112.282 ms
Loss rate: 2.63%
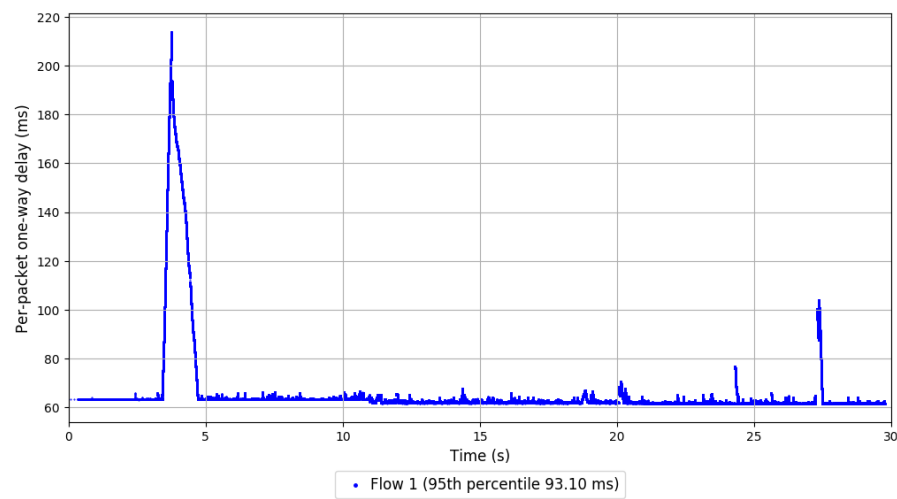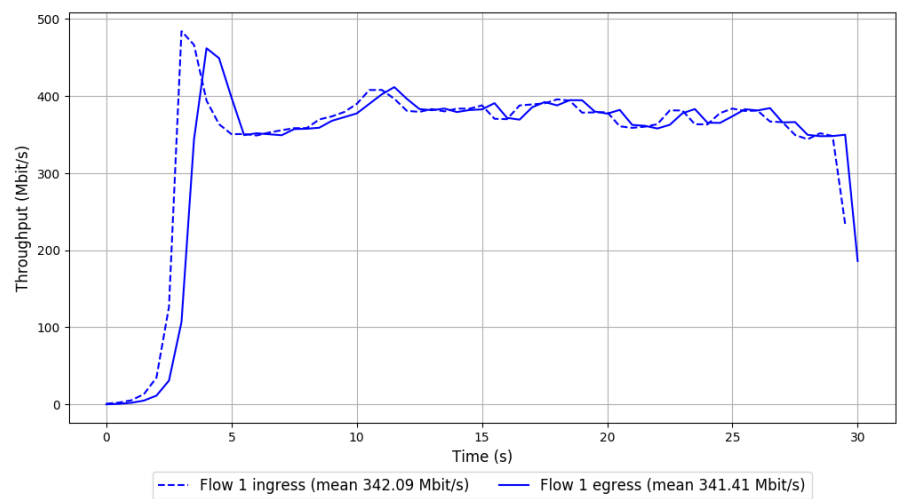```

Run 10: Report of Verus — Data Link

```
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 12:36:29
End at: 2018-06-06 12:36:59
Local clock offset: -0.053 ms
Remote clock offset: -0.181 ms

# Below is generated by plot.py at 2018-06-06 17:22:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.41 Mbit/s
95th percentile per-packet one-way delay: 93.100 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 341.41 Mbit/s
95th percentile per-packet one-way delay: 93.100 ms
Loss rate: 0.63%
```

Run 1: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 342.09 Mbit/s)   Flow 1 egress (mean 341.41 Mbit/s)
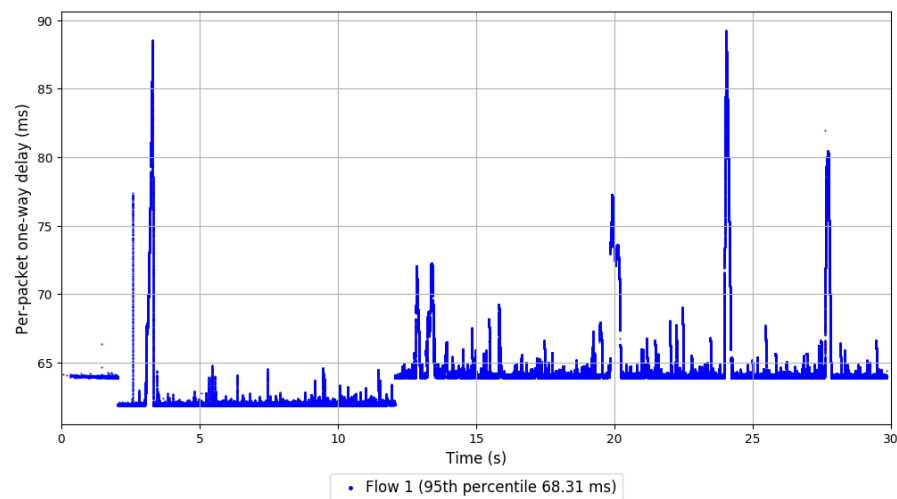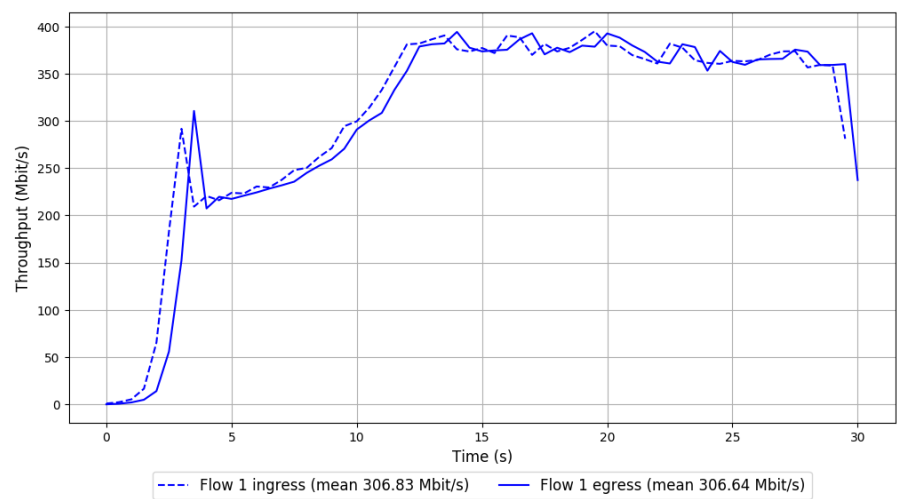

Flow 1 (95th percentile 93.10 ms)

```
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 12:56:48
End at: 2018-06-06 12:57:18
Local clock offset: -0.003 ms
Remote clock offset: -0.633 ms


# Below is generated by plot.py at 2018-06-06 17:22:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.64 Mbit/s
95th percentile per-packet one-way delay: 68.314 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 306.64 Mbit/s
95th percentile per-packet one-way delay: 68.314 ms
Loss rate: 0.48%
```

Run 2: Report of PCC-Vivace — Data Link

```
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 13:17:21
End at: 2018-06-06 13:17:51
Local clock offset: -0.042 ms
Remote clock offset: 0.892 ms


# Below is generated by plot.py at 2018-06-06 17:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 344.28 Mbit/s
95th percentile per-packet one-way delay: 63.966 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 344.28 Mbit/s
95th percentile per-packet one-way delay: 63.966 ms
Loss rate: 0.43%
```
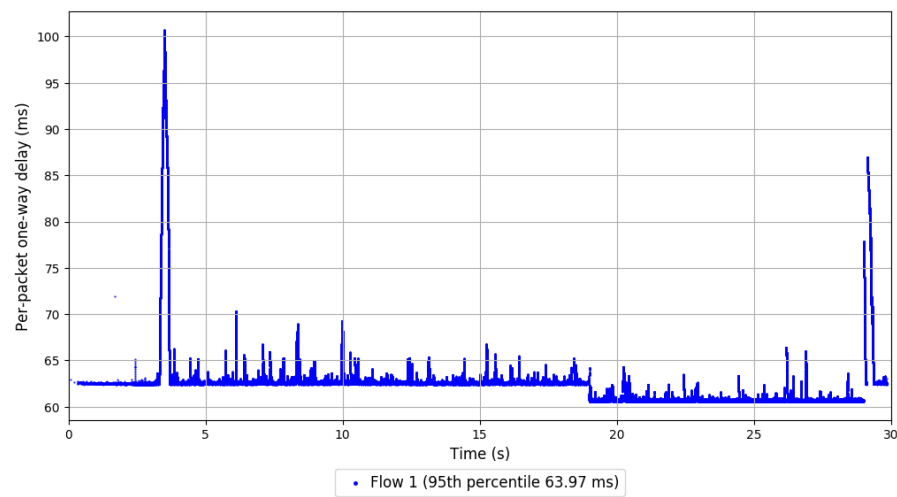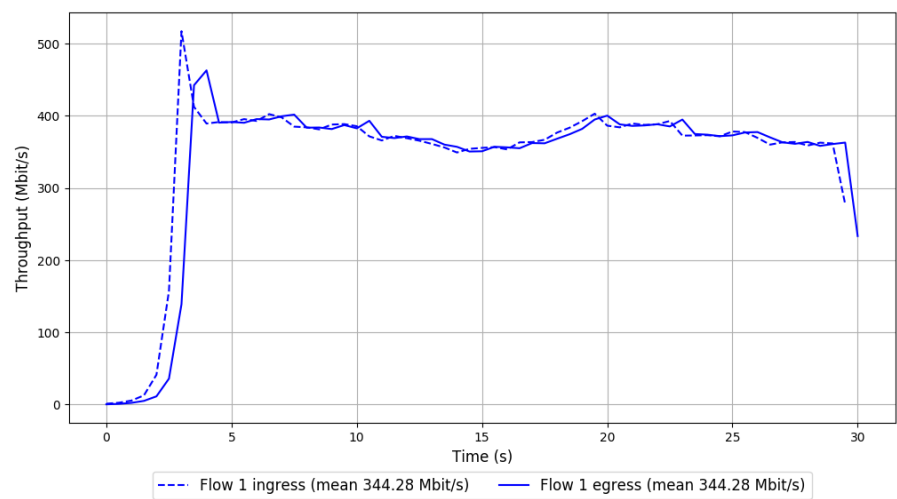
Run 3: Report of PCC-Vivace — Data Link

```
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 13:37:58
End at: 2018-06-06 13:38:28
Local clock offset: 0.065 ms
Remote clock offset: 0.071 ms


# Below is generated by plot.py at 2018-06-06 17:23:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.88 Mbit/s
95th percentile per-packet one-way delay: 75.371 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 345.88 Mbit/s
95th percentile per-packet one-way delay: 75.371 ms
Loss rate: 0.42%
```
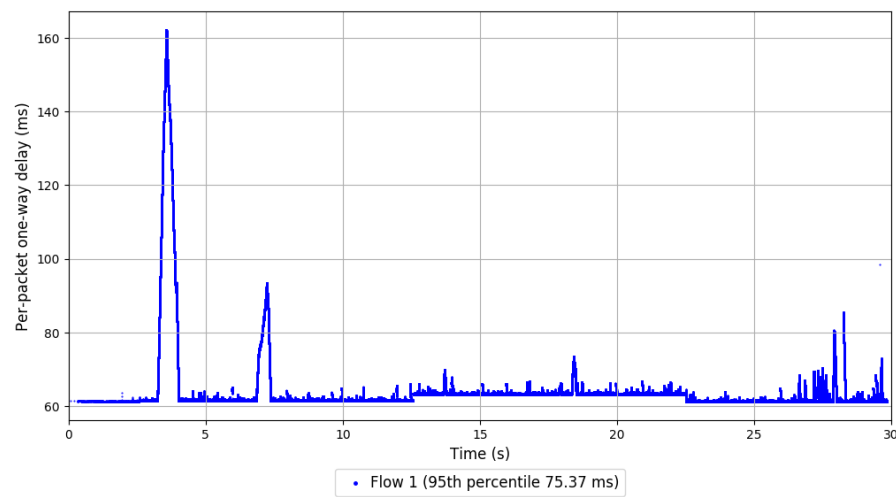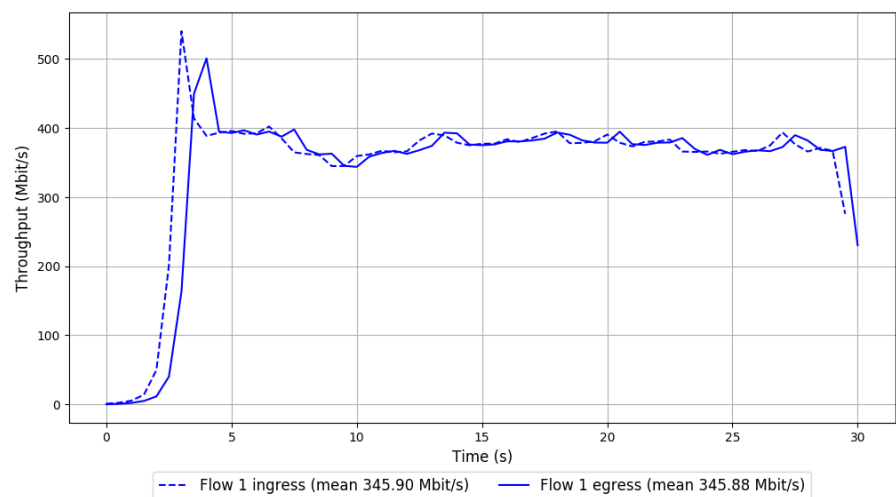
Run 4: Report of PCC-Vivace — Data Link

```
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 13:58:29
End at: 2018-06-06 13:58:59
Local clock offset: 0.108 ms
Remote clock offset: -0.017 ms


# Below is generated by plot.py at 2018-06-06 17:23:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.71 Mbit/s
95th percentile per-packet one-way delay: 166.647 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 287.71 Mbit/s
95th percentile per-packet one-way delay: 166.647 ms
Loss rate: 0.46%
```
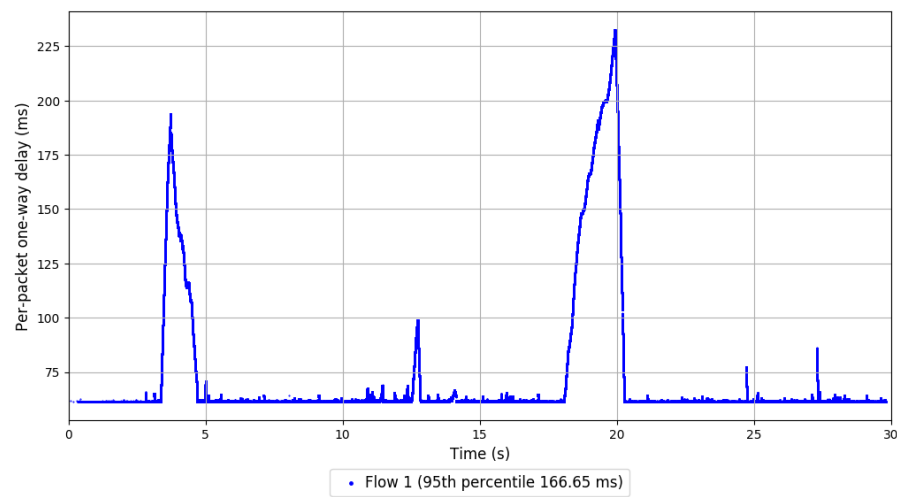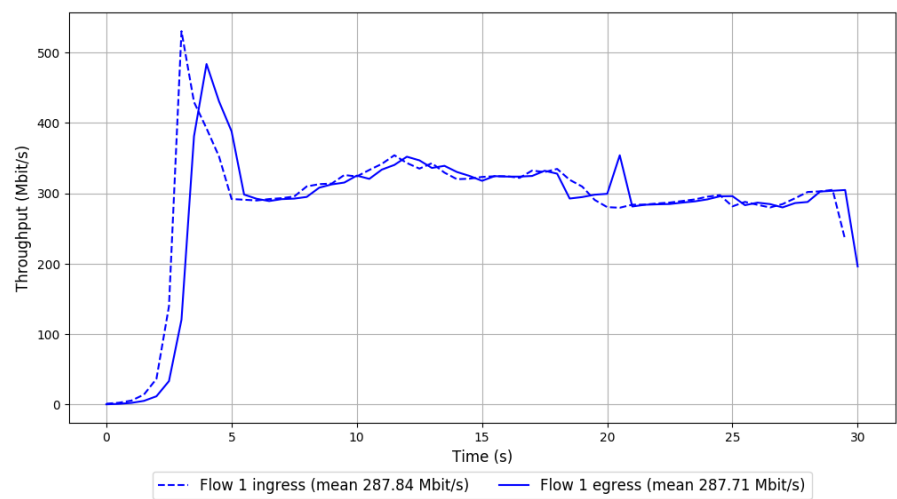
Run 5: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 287.84 Mbit/s)   Flow 1 egress (mean 287.71 Mbit/s)
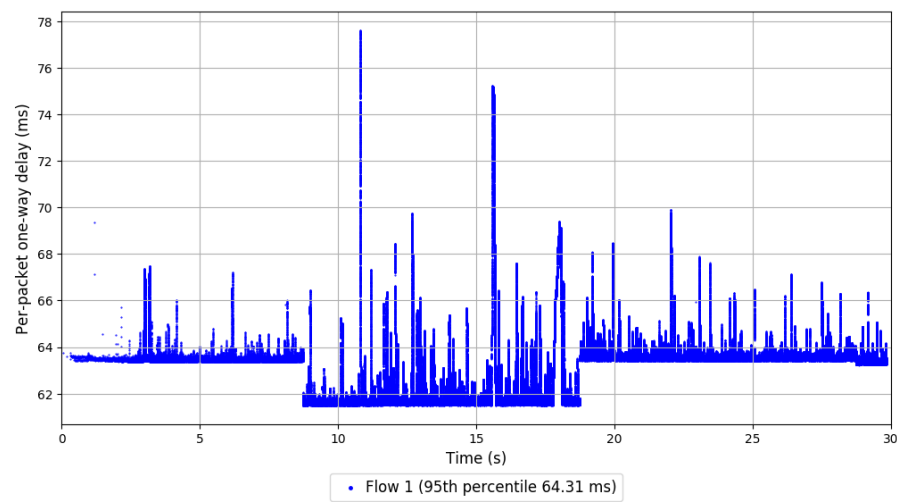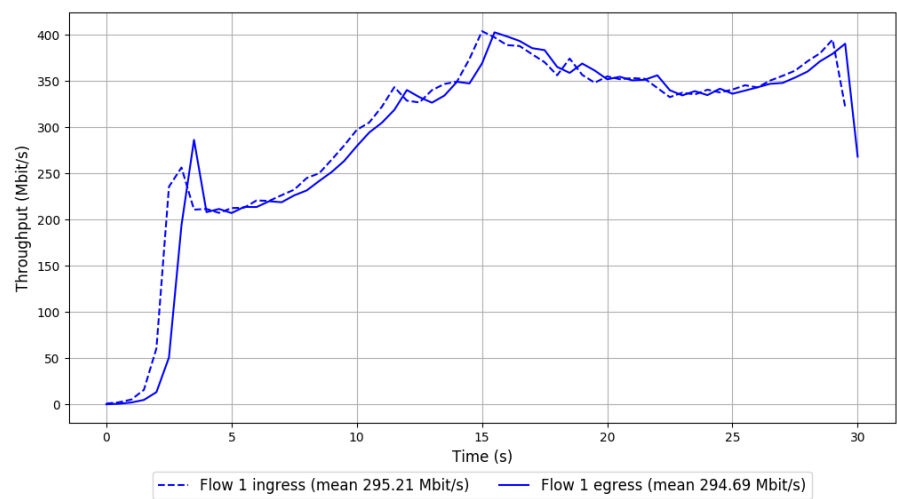

Flow 1 (95th percentile 166.65 ms)

```
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 14:18:42
End at: 2018-06-06 14:19:12
Local clock offset: -0.049 ms
Remote clock offset: -0.128 ms


# Below is generated by plot.py at 2018-06-06 17:23:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 294.69 Mbit/s
95th percentile per-packet one-way delay: 64.315 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 294.69 Mbit/s
95th percentile per-packet one-way delay: 64.315 ms
Loss rate: 0.60%
```

Run 6: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 295.21 Mbit/s) — — — — Flow 1 egress (mean 294.69 Mbit/s)
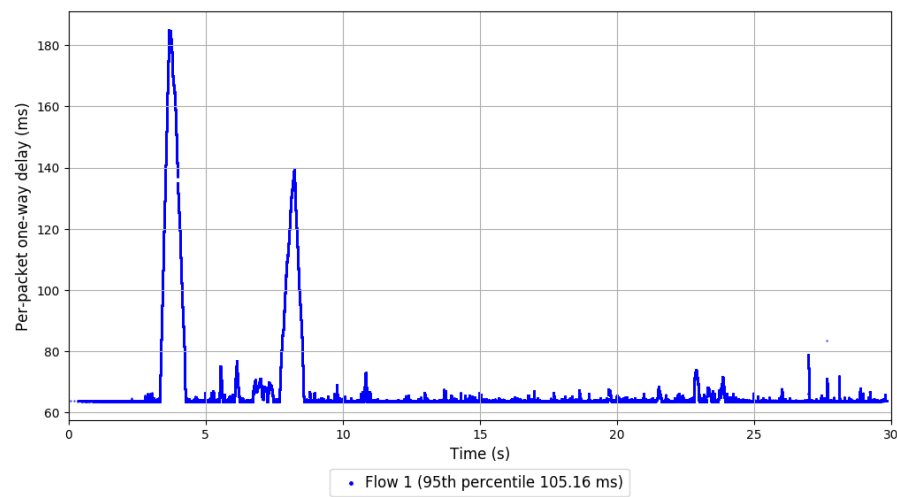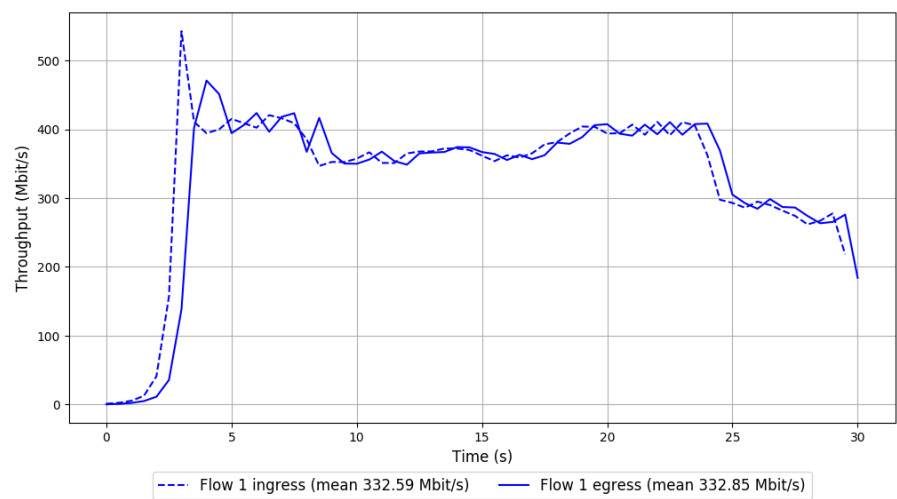

Flow 1 (95th percentile 64.31 ms)

```
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 14:39:01
End at: 2018-06-06 14:39:31
Local clock offset: -0.043 ms
Remote clock offset: -0.296 ms


# Below is generated by plot.py at 2018-06-06 17:24:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.85 Mbit/s
95th percentile per-packet one-way delay: 105.159 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 332.85 Mbit/s
95th percentile per-packet one-way delay: 105.159 ms
Loss rate: 0.35%
```
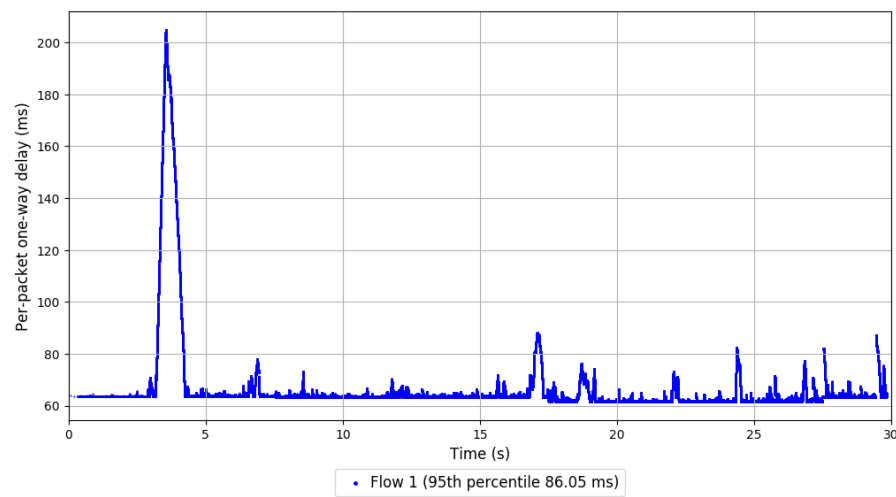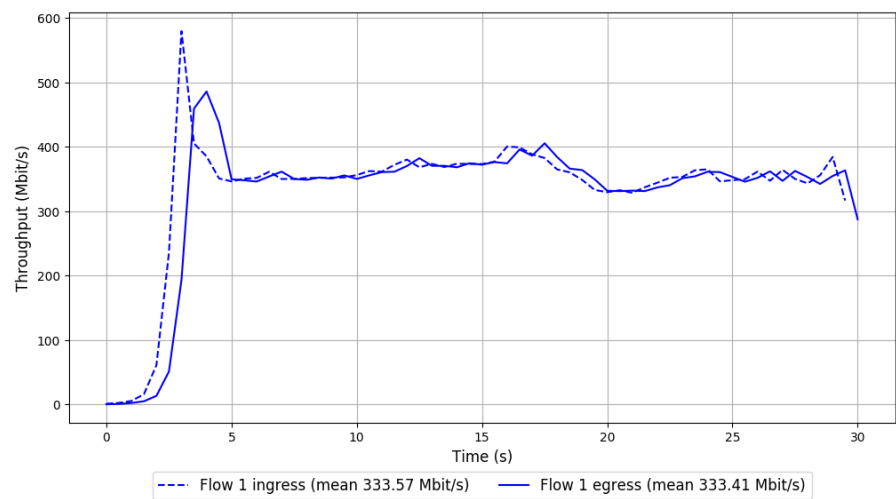
Run 7: Report of PCC-Vivace — Data Link

```
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 14:59:33
End at: 2018-06-06 15:00:03
Local clock offset: -0.019 ms
Remote clock offset: -0.117 ms


# Below is generated by plot.py at 2018-06-06 17:24:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 333.41 Mbit/s
95th percentile per-packet one-way delay: 86.049 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 333.41 Mbit/s
95th percentile per-packet one-way delay: 86.049 ms
Loss rate: 0.48%
```

Run 8: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 333.57 Mbit/s)   Flow 1 egress (mean 333.41 Mbit/s)
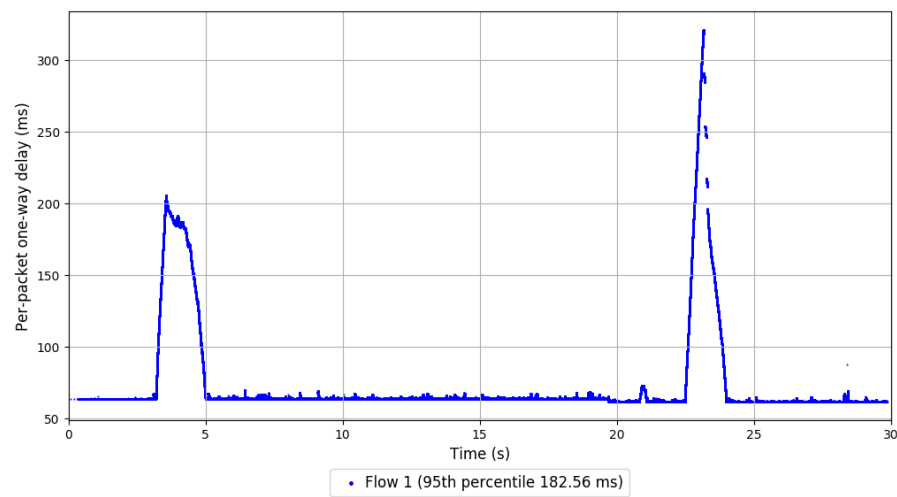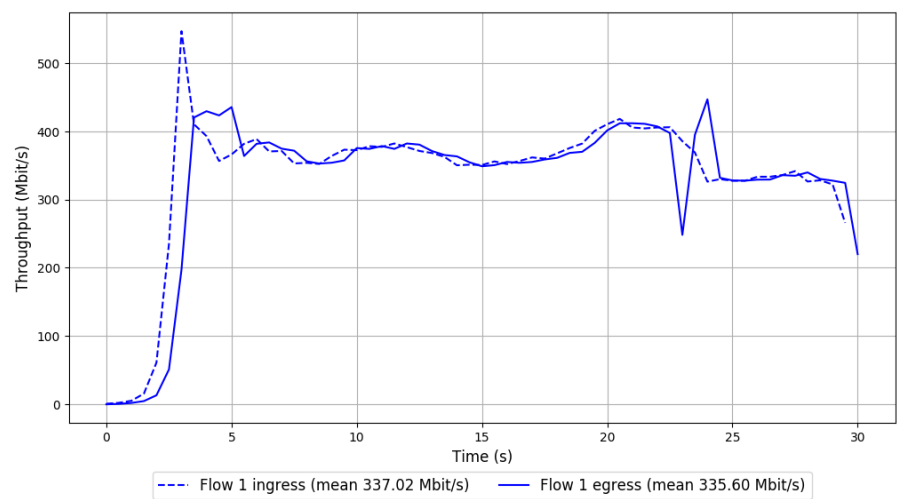

Flow 1 (95th percentile 86.05 ms)

```
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 15:20:11
End at: 2018-06-06 15:20:41
Local clock offset: -0.032 ms
Remote clock offset: -0.153 ms


# Below is generated by plot.py at 2018-06-06 17:24:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.60 Mbit/s
95th percentile per-packet one-way delay: 182.562 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 335.60 Mbit/s
95th percentile per-packet one-way delay: 182.562 ms
Loss rate: 0.85%
```

Run 9: Report of PCC-Vivace — Data Link

Flow 1 ingress (mean 337.02 Mbit/s) --- Flow 1 egress (mean 335.60 Mbit/s)

· Flow 1 (95th percentile 182.56 ms)

```
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 15:40:37
End at: 2018-06-06 15:41:07
Local clock offset: -0.006 ms
Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 342.67 Mbit/s
95th percentile per-packet one-way delay: 114.312 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 342.67 Mbit/s
95th percentile per-packet one-way delay: 114.312 ms
Loss rate: 0.69%
```
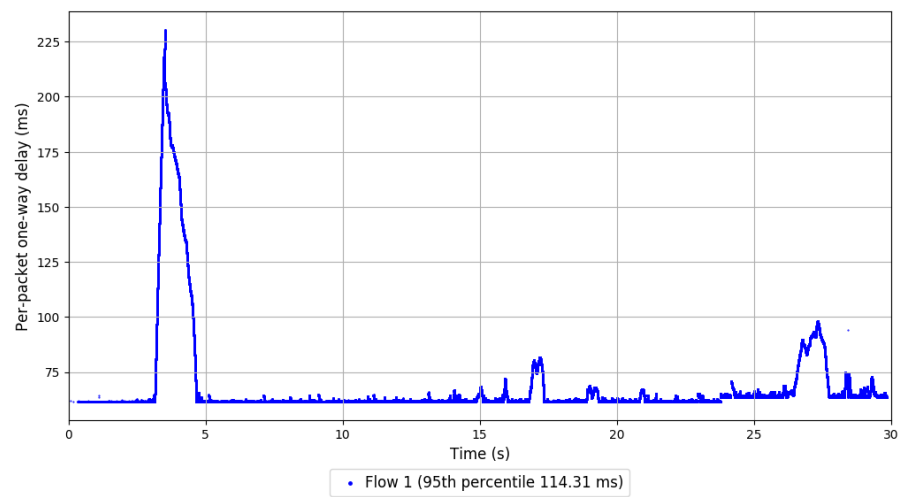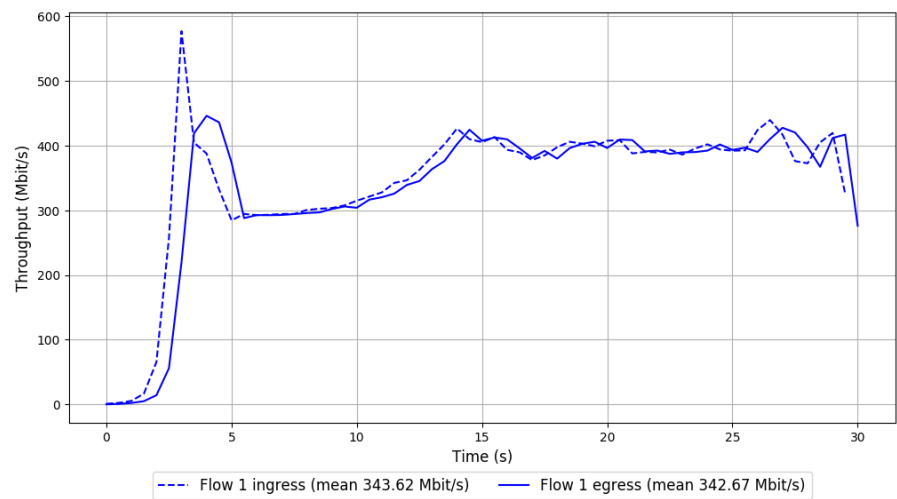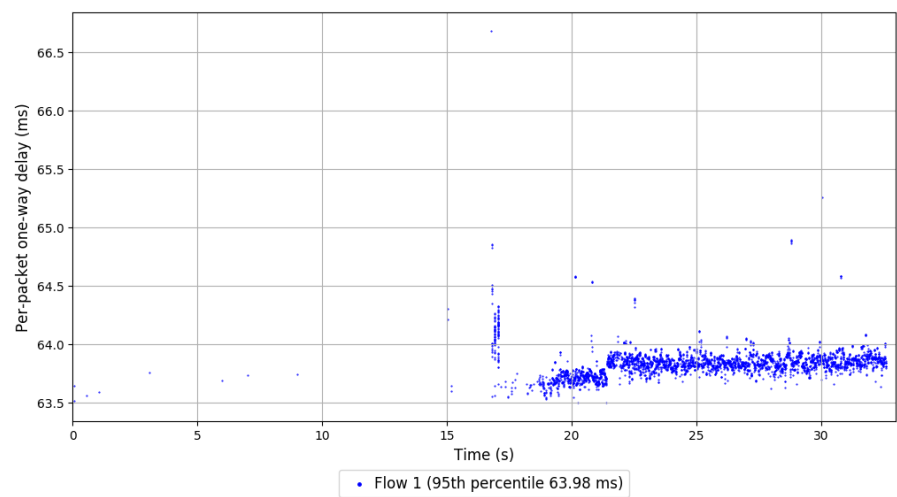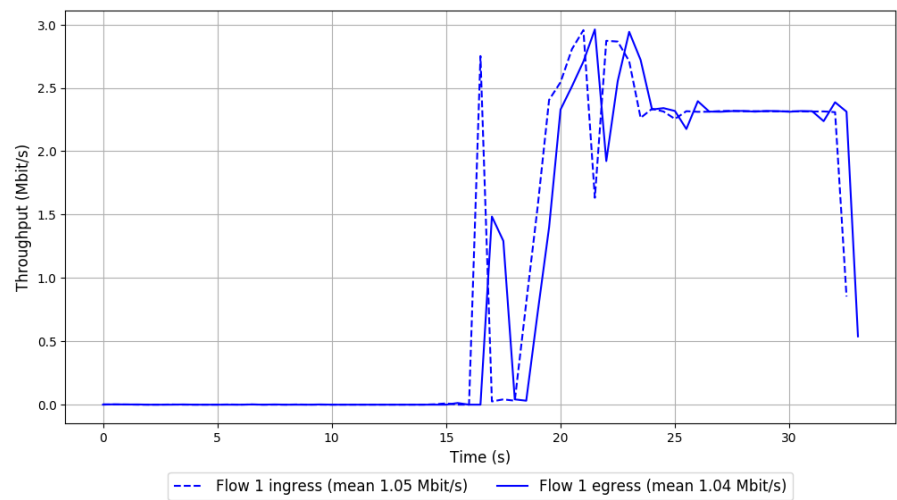
Run 10: Report of PCC-Vivace — Data Link

```
Run 1: Statistics of WebRTC media

Start at: 2018-06-06 12:31:42
End at: 2018-06-06 12:32:12
Local clock offset: 0.004 ms
Remote clock offset: -0.268 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 63.979 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 1.04 Mbit/s
95th percentile per-packet one-way delay: 63.979 ms
Loss rate: 0.91%
```
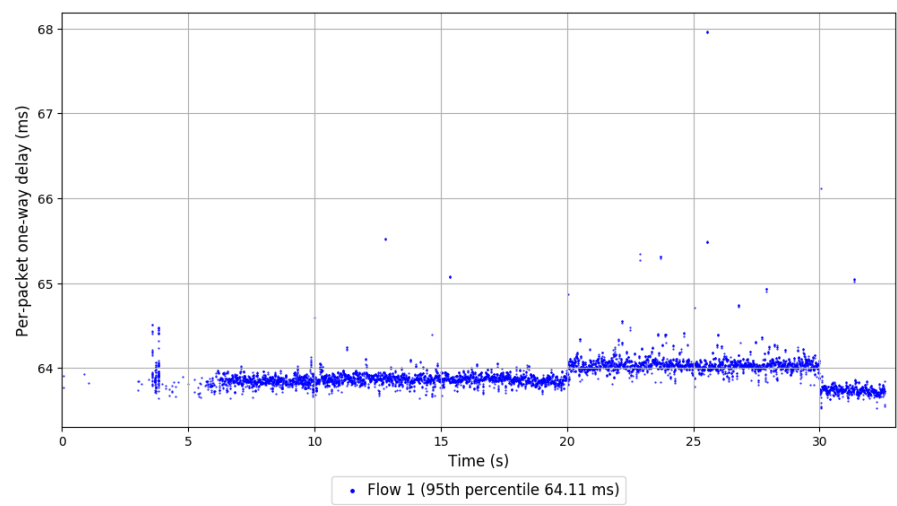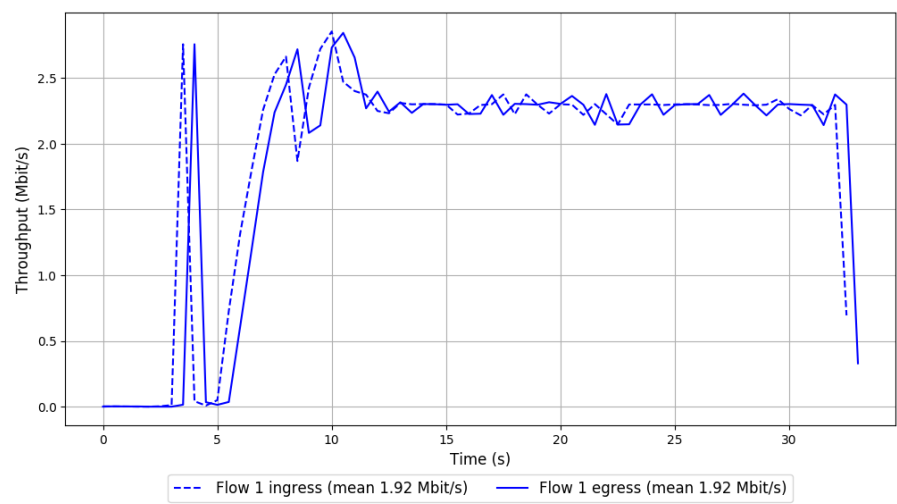
Run 1: Report of WebRTC media — Data Link

```
Run 2: Statistics of WebRTC media

Start at: 2018-06-06 12:52:03
End at: 2018-06-06 12:52:33
Local clock offset: -0.01 ms
Remote clock offset: -0.389 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 64.110 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 64.110 ms
Loss rate: 0.47%
```

Run 2: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.92 Mbit/s) ----   Flow 1 egress (mean 1.92 Mbit/s) ——
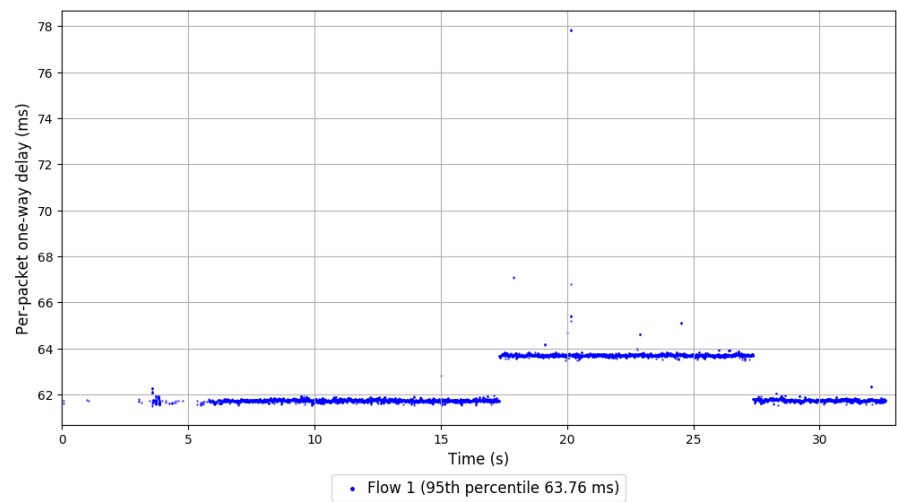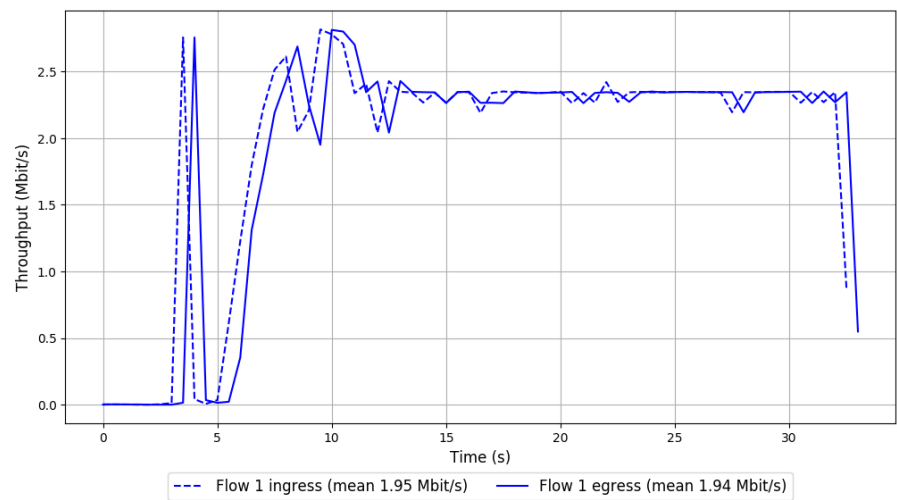

Flow 1 (95th percentile 64.11 ms)

```
Run 3: Statistics of WebRTC media

Start at: 2018-06-06 13:12:36
End at: 2018-06-06 13:13:06
Local clock offset: 0.008 ms
Remote clock offset: -0.053 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 63.757 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 63.757 ms
Loss rate: 0.49%
```
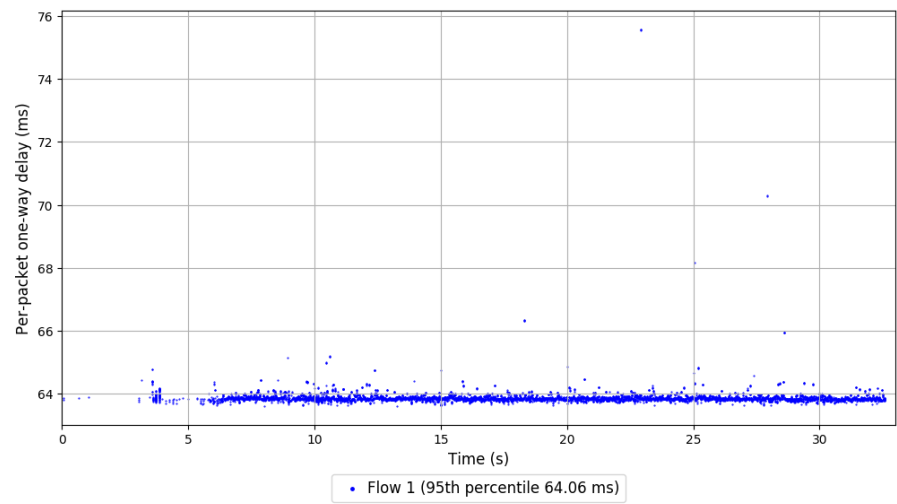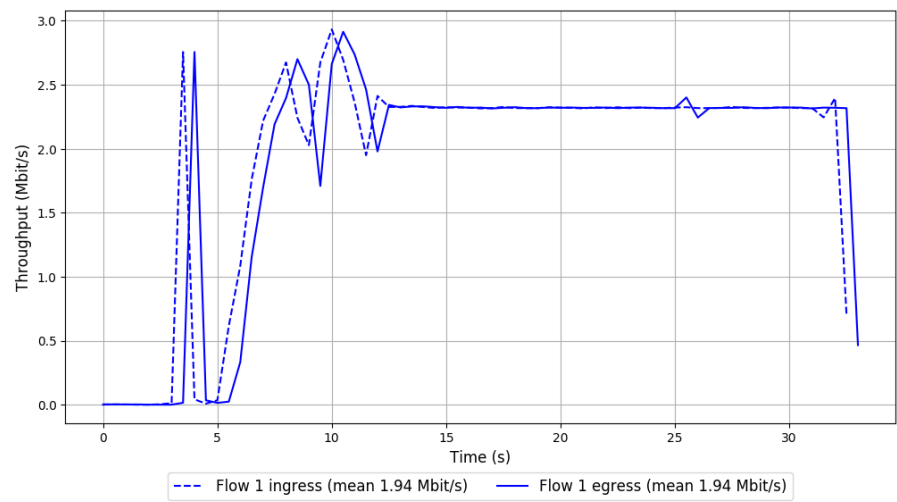
Run 3: Report of WebRTC media — Data Link

```
Run 4: Statistics of WebRTC media

Start at: 2018-06-06 13:33:12
End at: 2018-06-06 13:33:42
Local clock offset: 0.082 ms
Remote clock offset: -0.073 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 64.059 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 64.059 ms
Loss rate: 0.43%
```
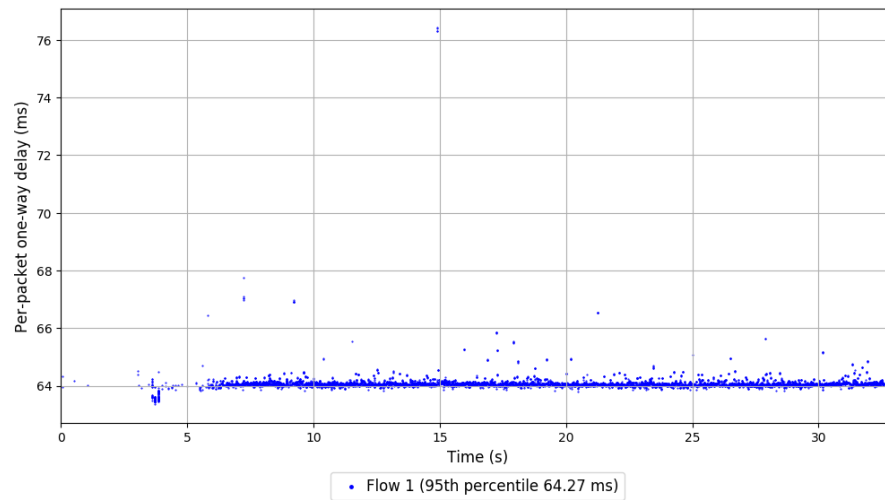
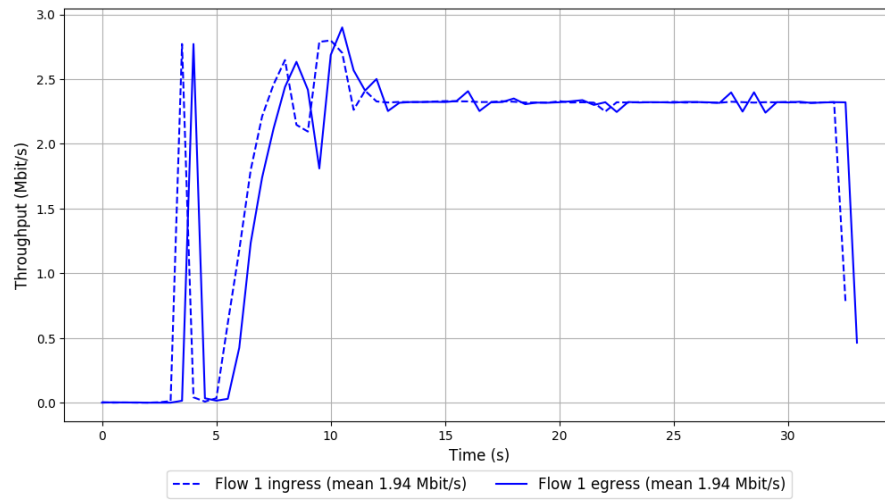Run 4: Report of WebRTC media — Data Link

```
Run 5: Statistics of WebRTC media

Start at: 2018-06-06 13:53:41
End at: 2018-06-06 13:54:11
Local clock offset: 0.165 ms
Remote clock offset: -0.053 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 64.271 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 64.271 ms
Loss rate: 0.49%
```
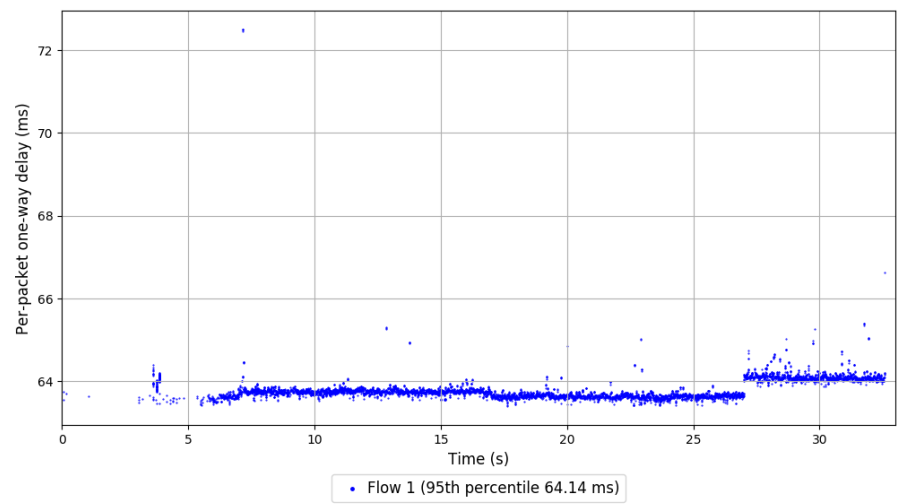
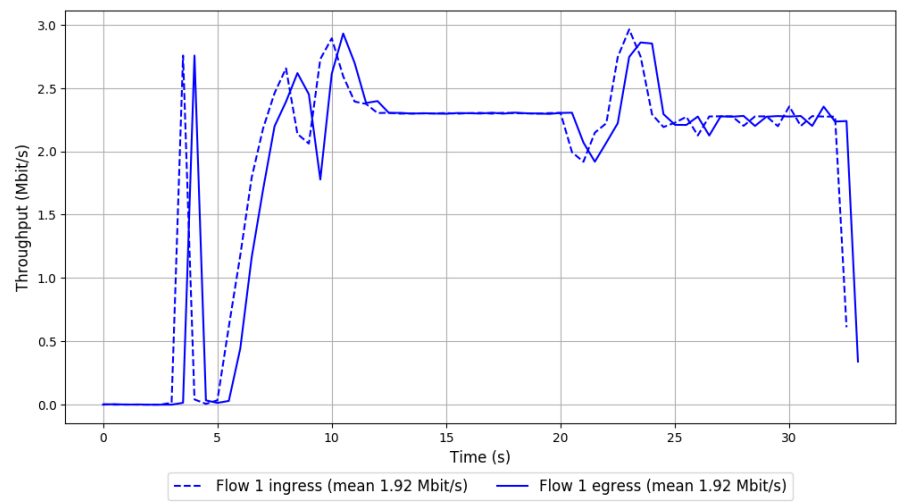Run 5: Report of WebRTC media — Data Link

```
Run 6: Statistics of WebRTC media

Start at: 2018-06-06 14:13:56
End at: 2018-06-06 14:14:26
Local clock offset: -0.033 ms
Remote clock offset: -0.084 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 64.139 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 64.139 ms
Loss rate: 0.46%
```

Run 6: Report of WebRTC media — Data Link

```
Run 7: Statistics of WebRTC media

Start at: 2018-06-06 14:34:18
End at: 2018-06-06 14:34:48
Local clock offset: -0.056 ms
Remote clock offset: -0.12 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 63.740 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 63.740 ms
Loss rate: 0.43%
```
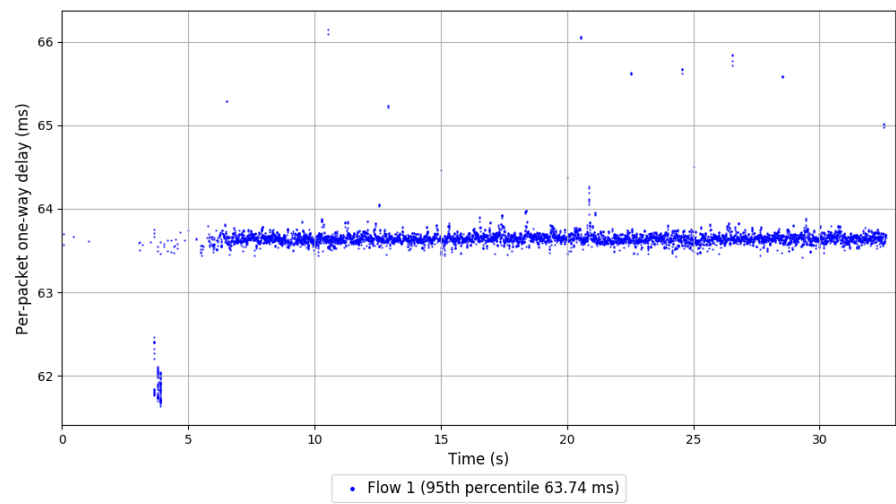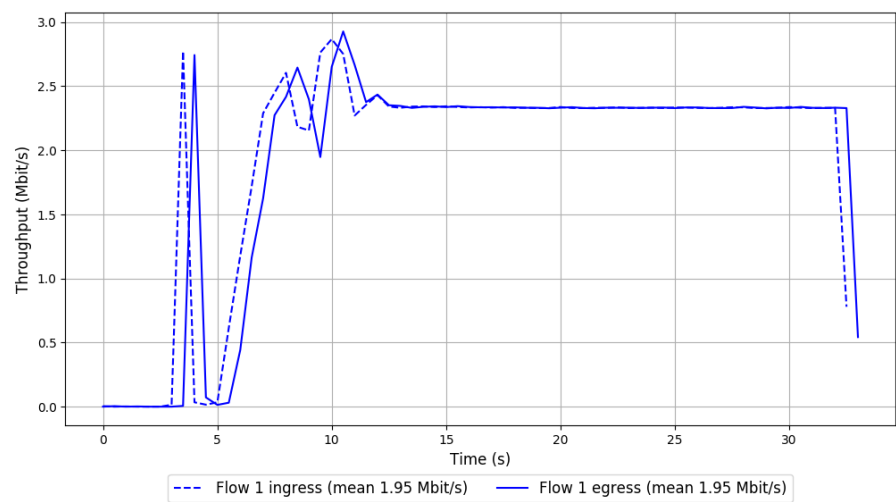
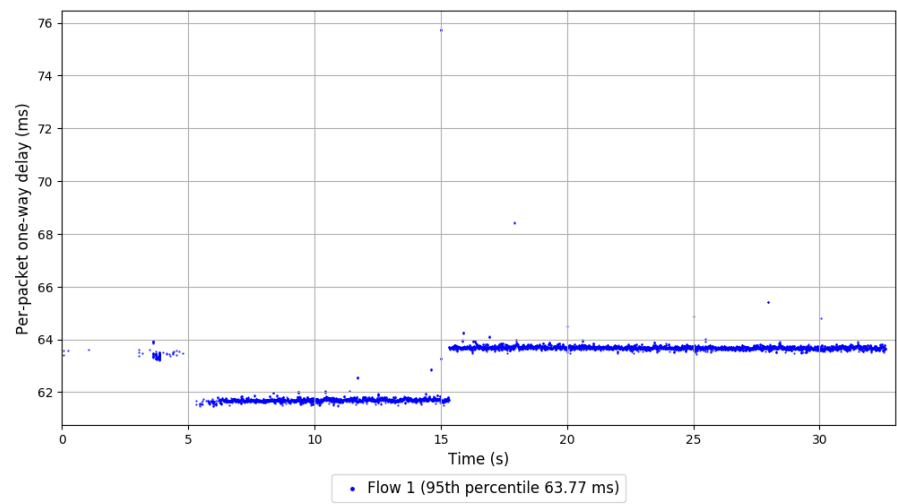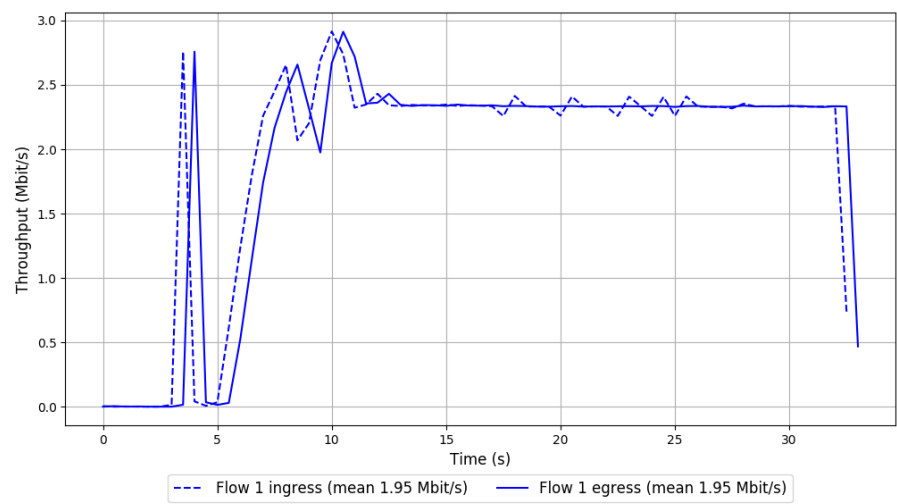## Run 7: Report of WebRTC media — Data Link

```
Run 8: Statistics of WebRTC media

Start at: 2018-06-06 14:54:48
End at: 2018-06-06 14:55:18
Local clock offset: -0.034 ms
Remote clock offset: -0.053 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 63.768 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 63.768 ms
Loss rate: 0.46%
```

Run 8: Report of WebRTC media — Data Link

```
Run 9: Statistics of WebRTC media

Start at: 2018-06-06 15:15:24
End at: 2018-06-06 15:15:54
Local clock offset: -0.008 ms
Remote clock offset: 0.083 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 63.746 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 63.746 ms
Loss rate: 0.44%
```

Run 9: Report of WebRTC media — Data Link

```
Run 10: Statistics of WebRTC media

Start at: 2018-06-06 15:36:00
End at: 2018-06-06 15:36:30
Local clock offset: -0.052 ms
Remote clock offset: 0.002 ms


# Below is generated by plot.py at 2018-06-06 17:25:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 63.651 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 63.651 ms
Loss rate: 0.51%
```
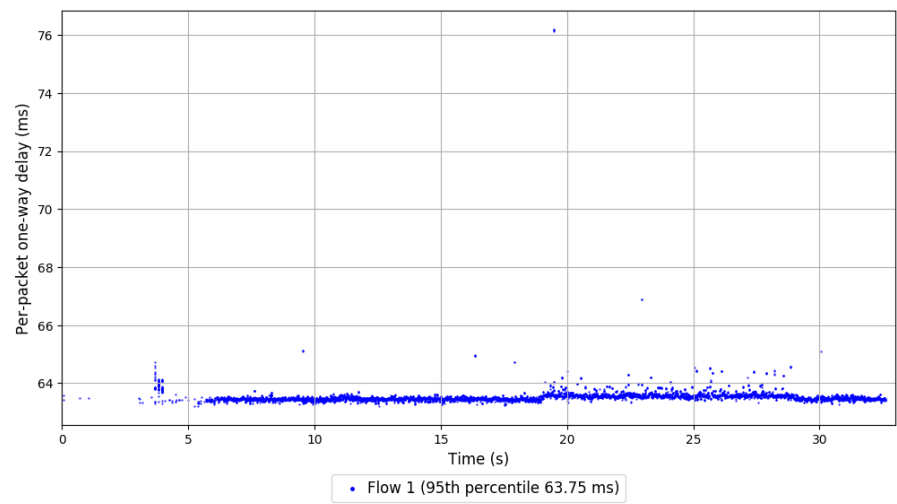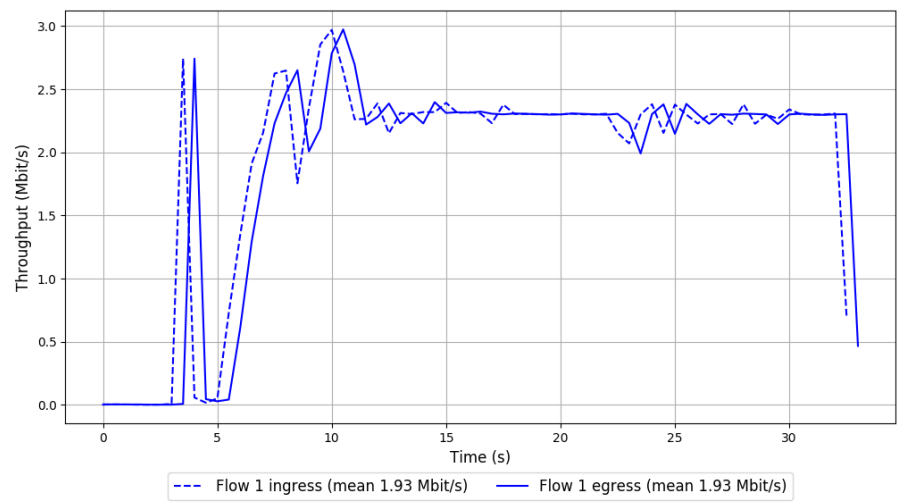
Run 10: Report of WebRTC media — Data Link

Flow 1 ingress (mean 1.82 Mbit/s) --- Flow 1 egress (mean 1.82 Mbit/s)

Flow 1 (95th percentile 63.65 ms)