

Pantheon Report

Generated at 2018-05-30 23:34:05 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

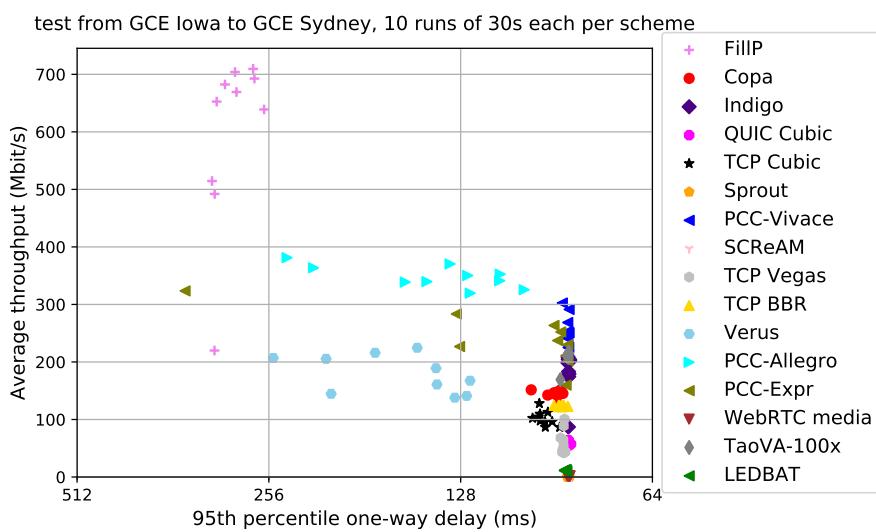
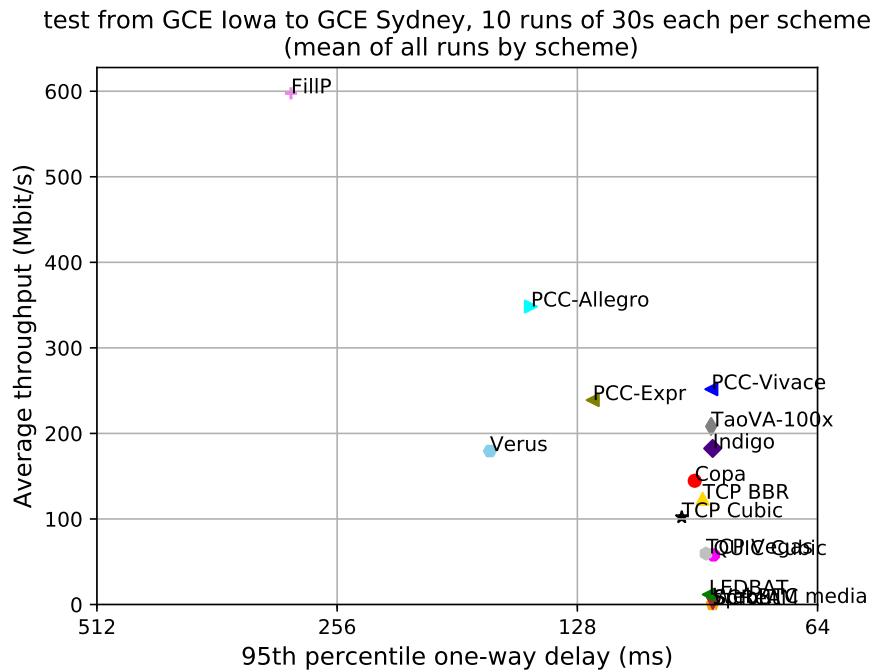
Each test lasted for 30 seconds running 1 flow.

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 @ b3465b942e2826f2b179eab4a906ce6bb7cf3cf
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
```



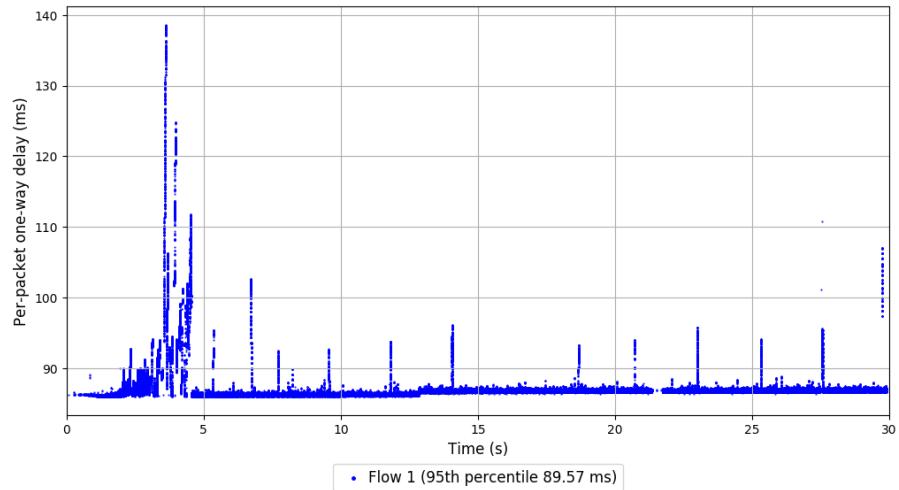
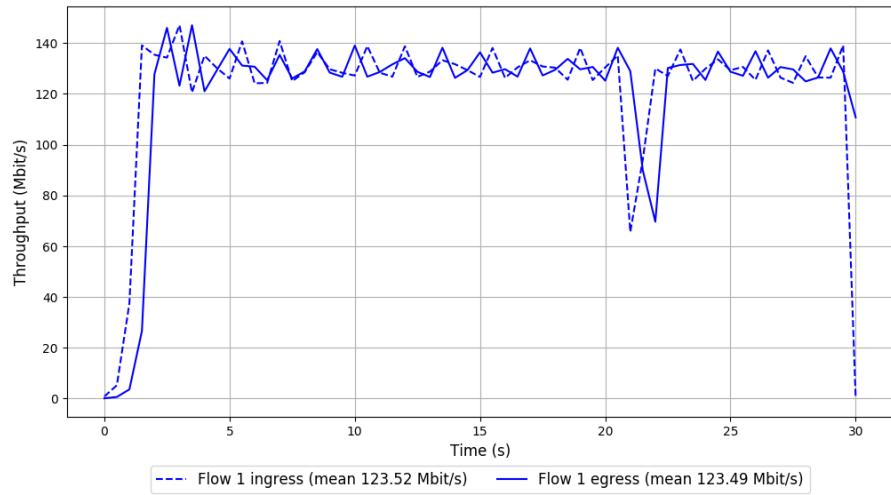
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	123.62	89.17	0.62
Copa	10	144.62	91.23	0.58
TCP Cubic	10	102.04	94.71	0.47
FillP	10	597.57	292.48	2.21
Indigo	9	182.41	86.62	0.61
LEDBAT	10	11.67	87.59	1.17
PCC-Allegro	10	348.32	146.36	0.99
PCC-Expr	10	238.98	122.44	2.54
QUIC Cubic	9	57.92	86.43	0.82
SCReAM	10	0.22	86.38	0.56
Sprout	10	0.27	86.68	0.55
TaoVA-100x	10	208.21	87.01	0.63
TCP Vegas	10	59.63	88.31	0.61
Verus	10	179.42	164.76	0.95
PCC-Vivace	10	251.67	86.96	0.69
WebRTC media	10	1.86	86.59	0.73

```
Run 1: Statistics of TCP BBR
```

```
Start at: 2018-05-30 18:57:11
End at: 2018-05-30 18:57:41
Local clock offset: 6.364 ms
Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-30 22:24:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 123.49 Mbit/s
95th percentile per-packet one-way delay: 89.566 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 123.49 Mbit/s
95th percentile per-packet one-way delay: 89.566 ms
Loss rate: 0.60%
```

Run 1: Report of TCP BBR — Data Link

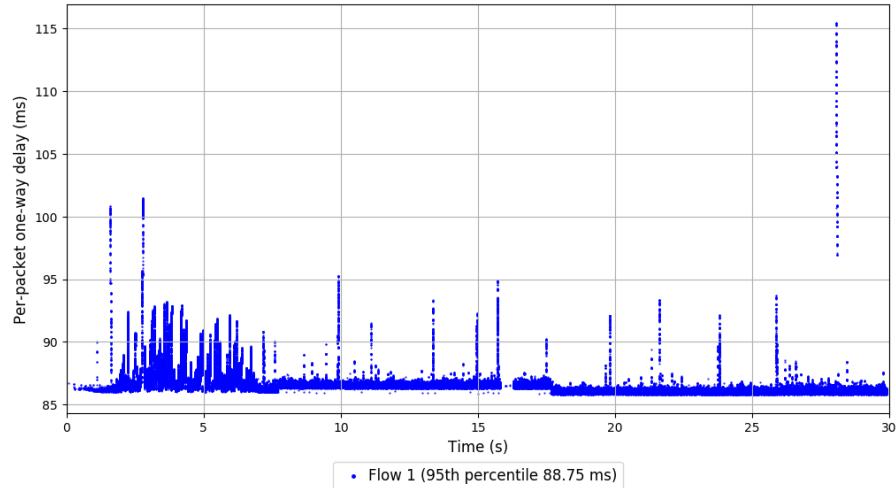
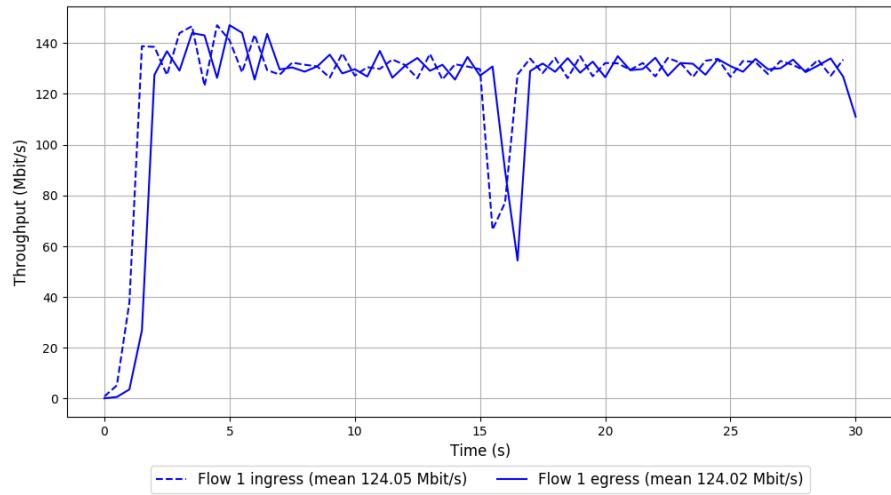


Run 2: Statistics of TCP BBR

```
Start at: 2018-05-30 19:17:16
End at: 2018-05-30 19:17:46
Local clock offset: 5.469 ms
Remote clock offset: 0.082 ms

# Below is generated by plot.py at 2018-05-30 22:24:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.02 Mbit/s
95th percentile per-packet one-way delay: 88.753 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 124.02 Mbit/s
95th percentile per-packet one-way delay: 88.753 ms
Loss rate: 0.60%
```

Run 2: Report of TCP BBR — Data Link

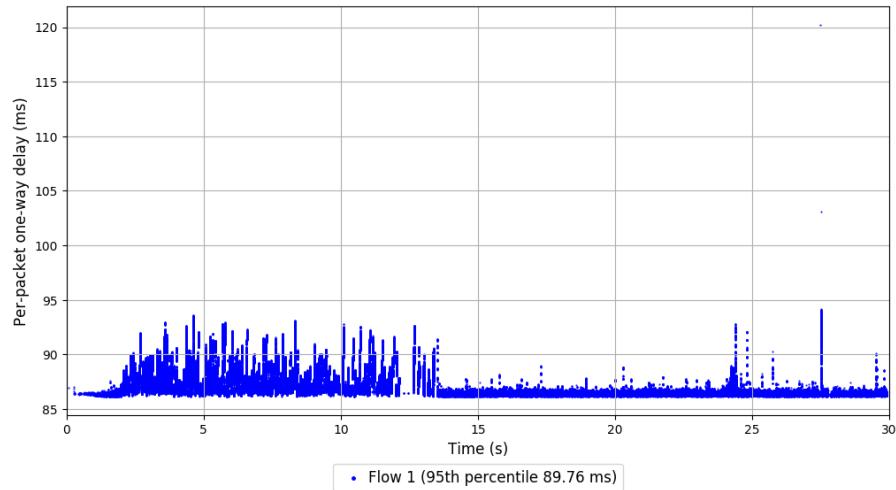
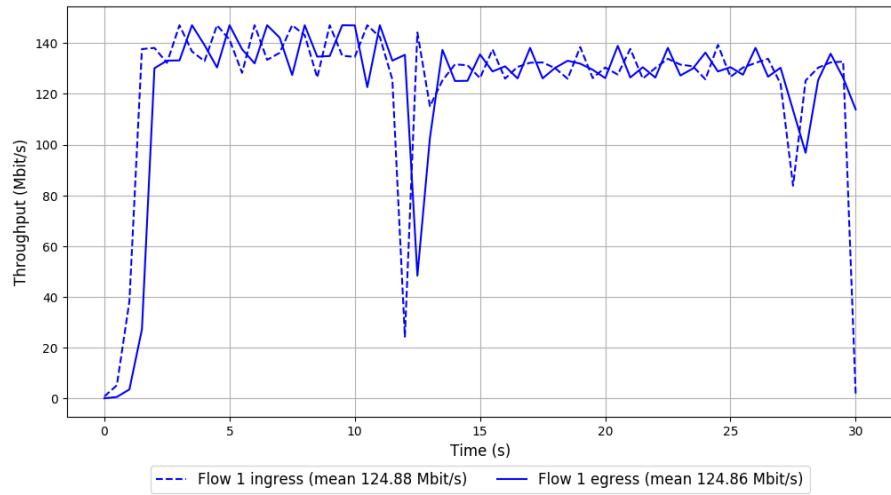


Run 3: Statistics of TCP BBR

```
Start at: 2018-05-30 19:37:39
End at: 2018-05-30 19:38:09
Local clock offset: 2.545 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-05-30 22:24:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.86 Mbit/s
95th percentile per-packet one-way delay: 89.756 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 124.86 Mbit/s
95th percentile per-packet one-way delay: 89.756 ms
Loss rate: 0.60%
```

Run 3: Report of TCP BBR — Data Link

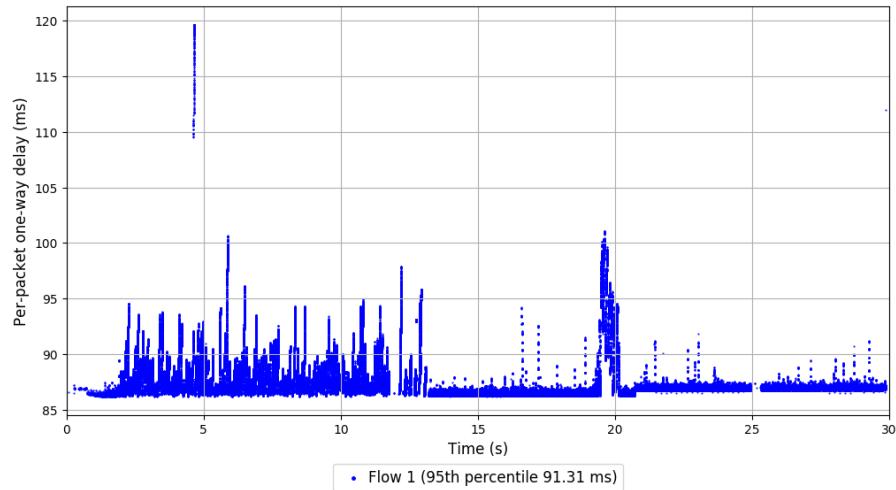
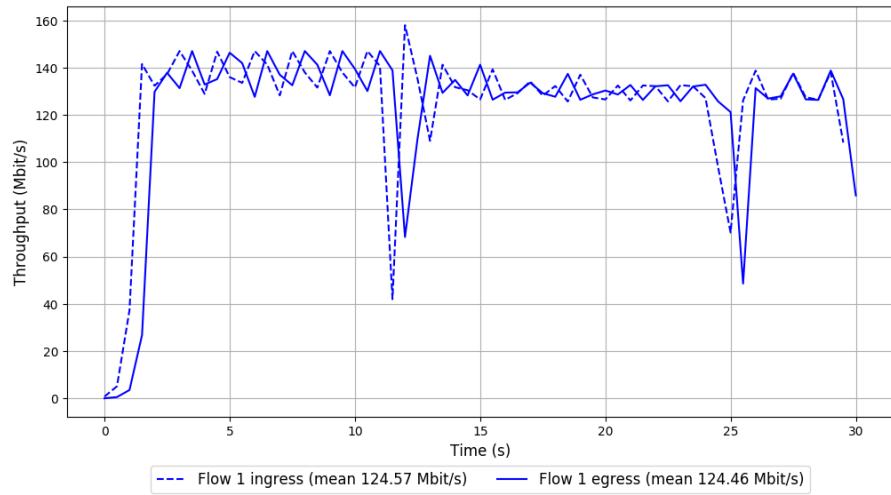


Run 4: Statistics of TCP BBR

```
Start at: 2018-05-30 19:58:13
End at: 2018-05-30 19:58:43
Local clock offset: 2.915 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-05-30 22:24:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.46 Mbit/s
95th percentile per-packet one-way delay: 91.314 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 124.46 Mbit/s
95th percentile per-packet one-way delay: 91.314 ms
Loss rate: 0.67%
```

Run 4: Report of TCP BBR — Data Link

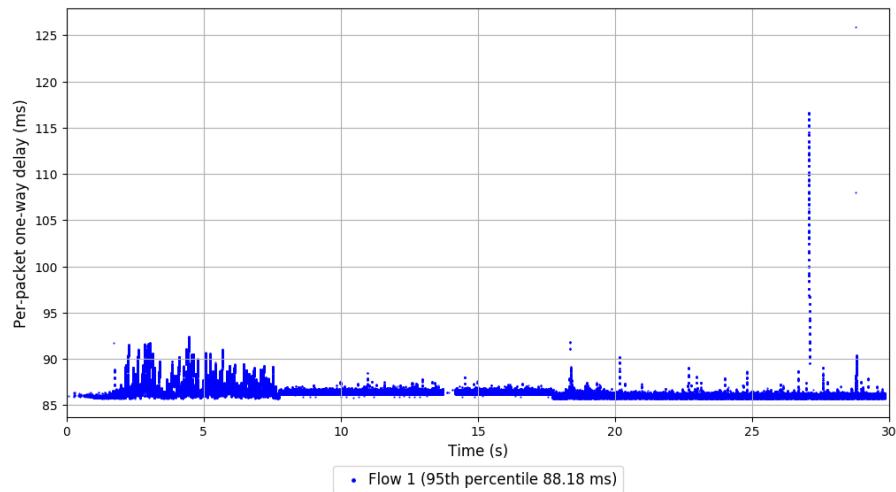
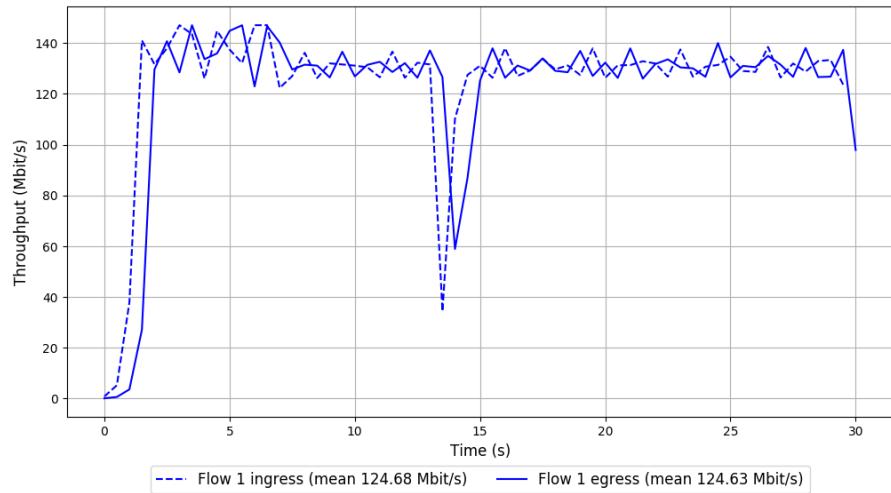


Run 5: Statistics of TCP BBR

```
Start at: 2018-05-30 20:18:46
End at: 2018-05-30 20:19:16
Local clock offset: 0.841 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2018-05-30 22:24:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.63 Mbit/s
95th percentile per-packet one-way delay: 88.176 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 124.63 Mbit/s
95th percentile per-packet one-way delay: 88.176 ms
Loss rate: 0.66%
```

Run 5: Report of TCP BBR — Data Link

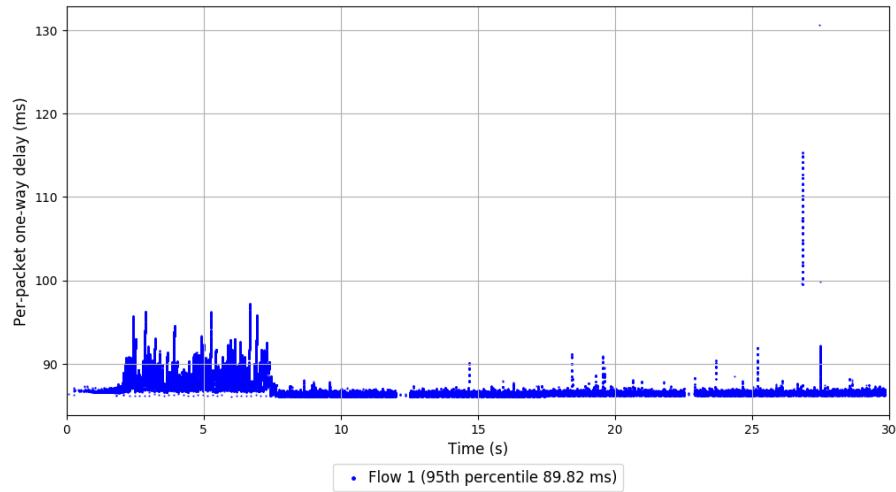
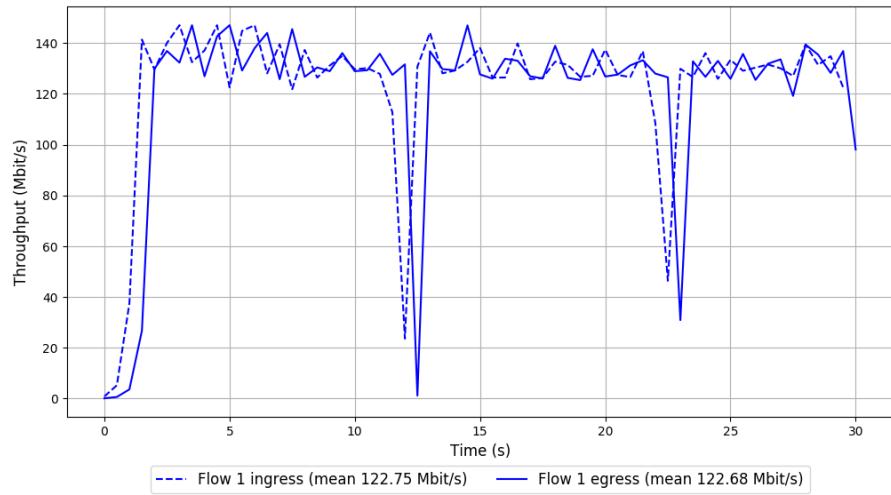


Run 6: Statistics of TCP BBR

```
Start at: 2018-05-30 20:39:17
End at: 2018-05-30 20:39:47
Local clock offset: 0.768 ms
Remote clock offset: 0.154 ms

# Below is generated by plot.py at 2018-05-30 22:24:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.68 Mbit/s
95th percentile per-packet one-way delay: 89.819 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 122.68 Mbit/s
95th percentile per-packet one-way delay: 89.819 ms
Loss rate: 0.67%
```

Run 6: Report of TCP BBR — Data Link

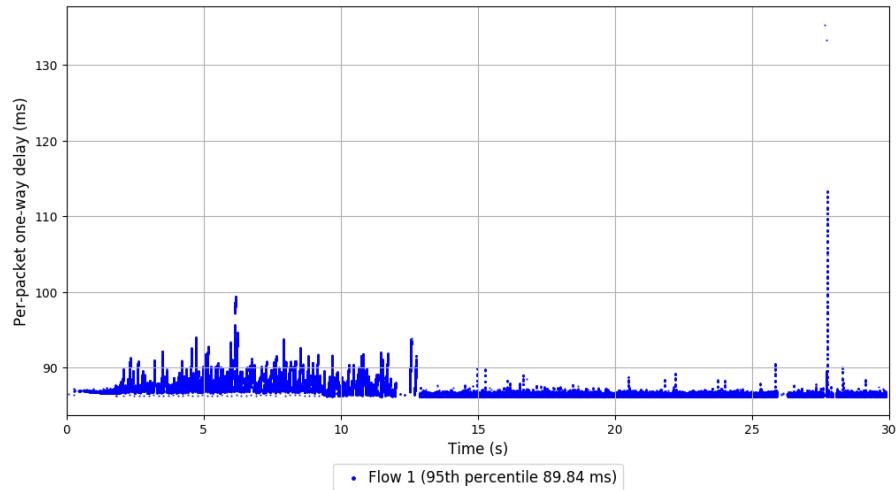
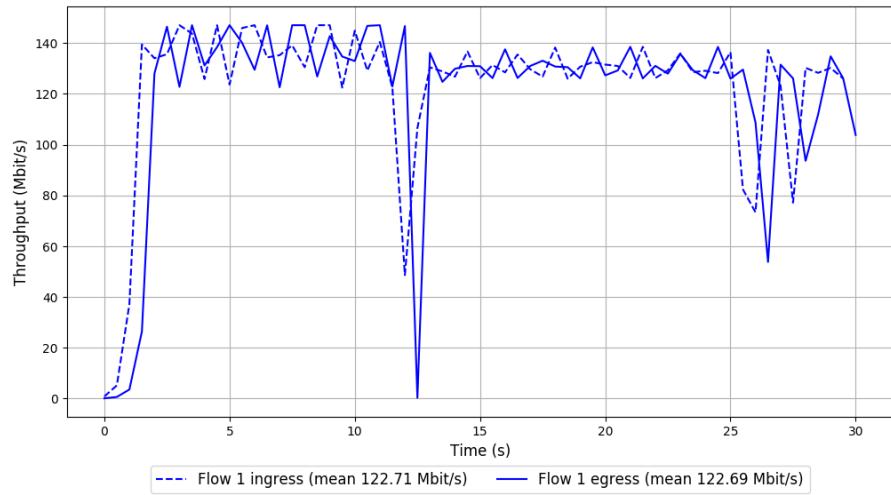


Run 7: Statistics of TCP BBR

```
Start at: 2018-05-30 20:59:35
End at: 2018-05-30 21:00:05
Local clock offset: 0.755 ms
Remote clock offset: 0.244 ms

# Below is generated by plot.py at 2018-05-30 22:24:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.69 Mbit/s
95th percentile per-packet one-way delay: 89.836 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 122.69 Mbit/s
95th percentile per-packet one-way delay: 89.836 ms
Loss rate: 0.60%
```

Run 7: Report of TCP BBR — Data Link

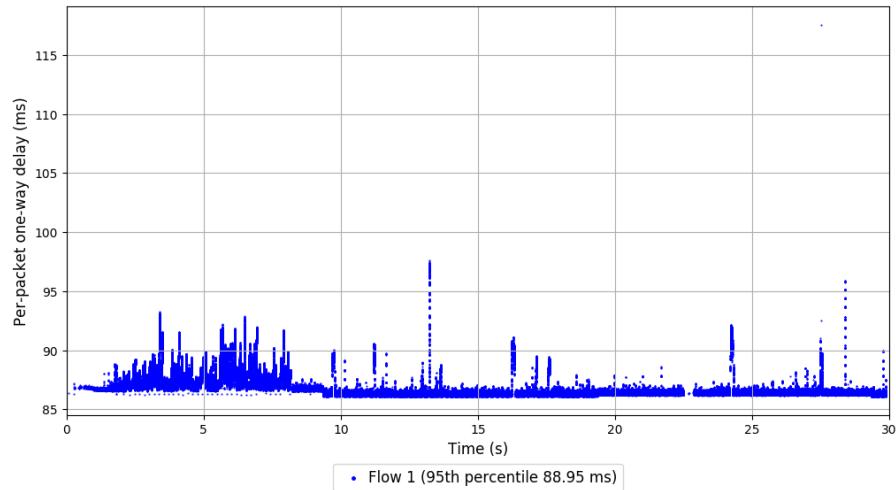
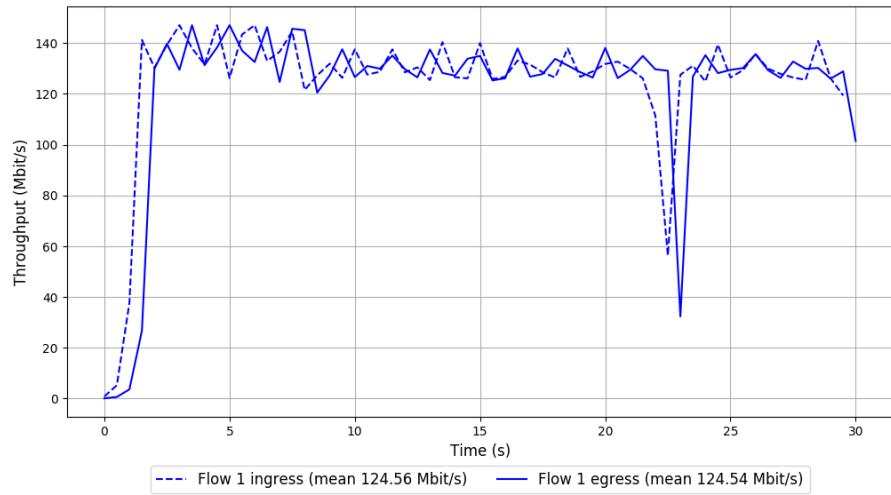


Run 8: Statistics of TCP BBR

```
Start at: 2018-05-30 21:20:05
End at: 2018-05-30 21:20:35
Local clock offset: 0.835 ms
Remote clock offset: 0.253 ms

# Below is generated by plot.py at 2018-05-30 22:24:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 124.54 Mbit/s
95th percentile per-packet one-way delay: 88.952 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 124.54 Mbit/s
95th percentile per-packet one-way delay: 88.952 ms
Loss rate: 0.59%
```

Run 8: Report of TCP BBR — Data Link

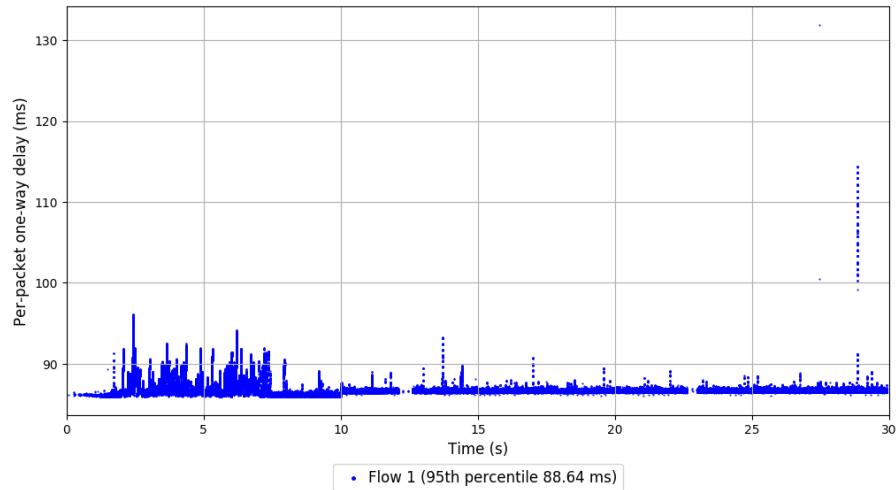
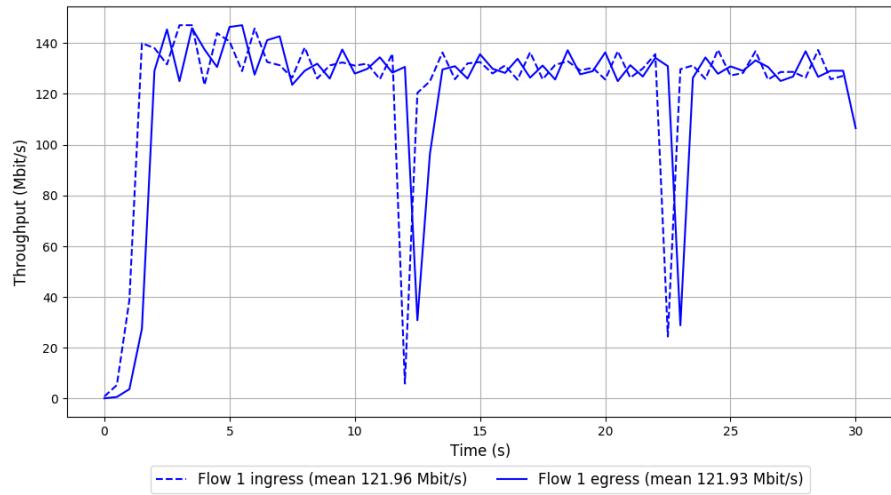


Run 9: Statistics of TCP BBR

```
Start at: 2018-05-30 21:40:34
End at: 2018-05-30 21:41:04
Local clock offset: 0.769 ms
Remote clock offset: 0.242 ms

# Below is generated by plot.py at 2018-05-30 22:26:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 121.93 Mbit/s
95th percentile per-packet one-way delay: 88.636 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 121.93 Mbit/s
95th percentile per-packet one-way delay: 88.636 ms
Loss rate: 0.60%
```

Run 9: Report of TCP BBR — Data Link

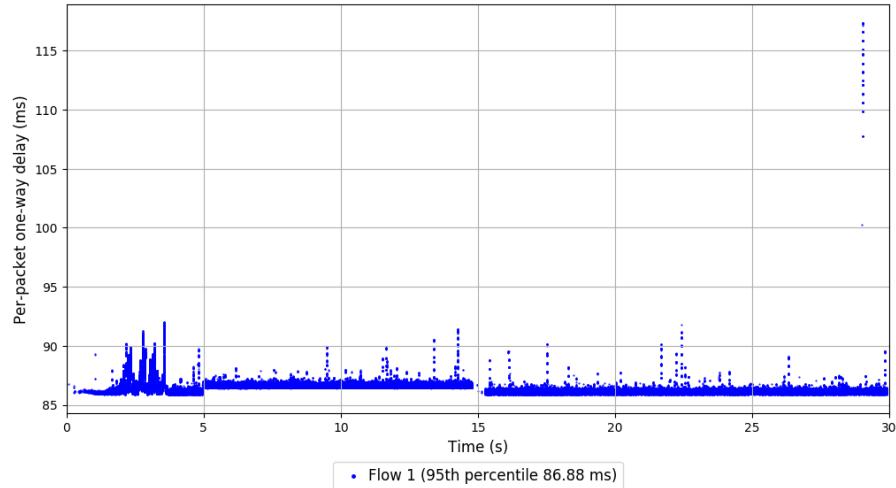
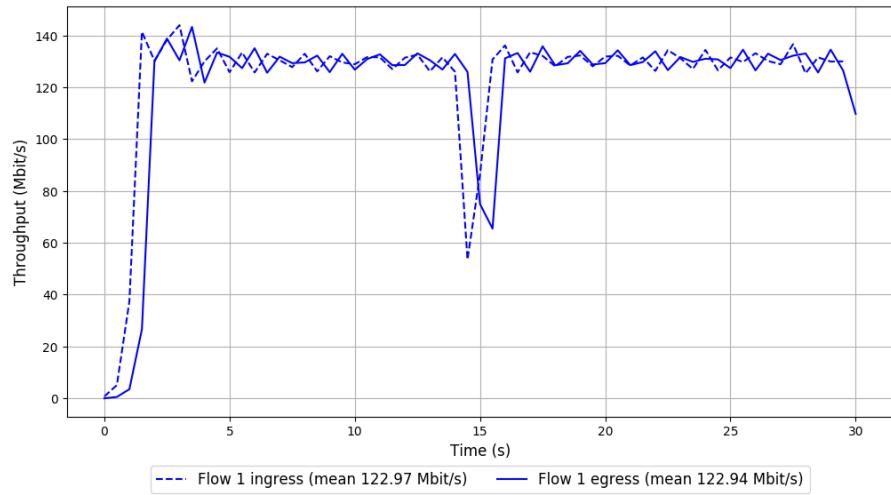


Run 10: Statistics of TCP BBR

```
Start at: 2018-05-30 22:00:59
End at: 2018-05-30 22:01:29
Local clock offset: -0.195 ms
Remote clock offset: 0.275 ms

# Below is generated by plot.py at 2018-05-30 22:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.94 Mbit/s
95th percentile per-packet one-way delay: 86.882 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 122.94 Mbit/s
95th percentile per-packet one-way delay: 86.882 ms
Loss rate: 0.60%
```

Run 10: Report of TCP BBR — Data Link

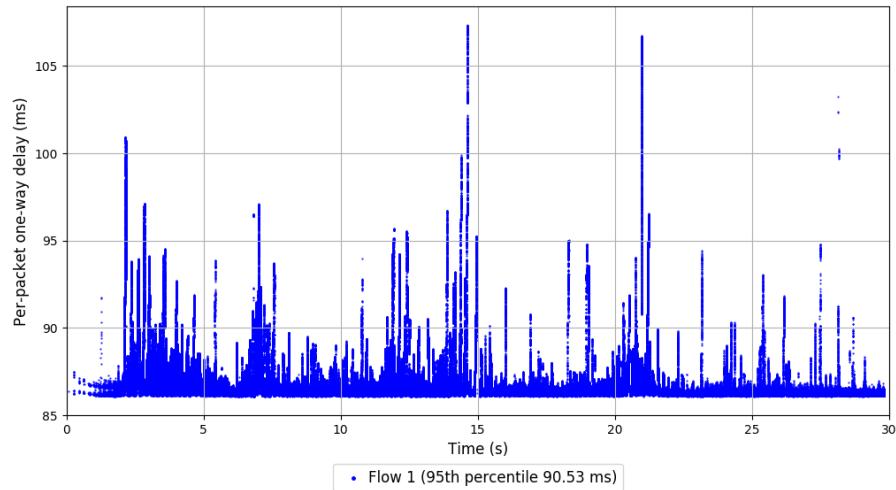
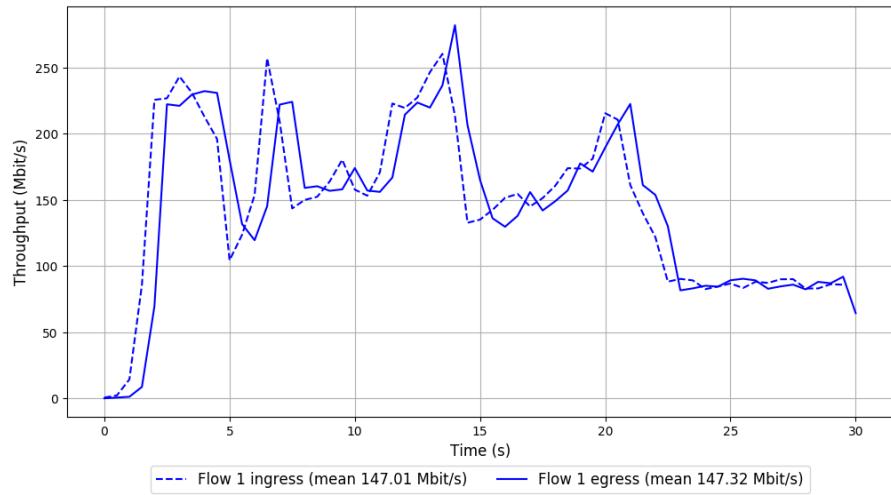


Run 1: Statistics of Copa

```
Start at: 2018-05-30 19:03:28
End at: 2018-05-30 19:03:58
Local clock offset: 5.027 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-05-30 22:29:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.32 Mbit/s
95th percentile per-packet one-way delay: 90.530 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 147.32 Mbit/s
95th percentile per-packet one-way delay: 90.530 ms
Loss rate: 0.37%
```

Run 1: Report of Copa — Data Link

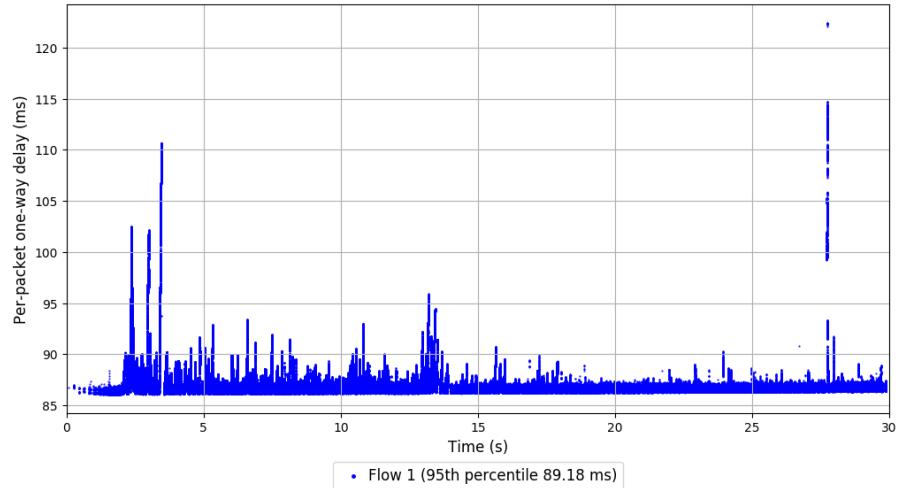
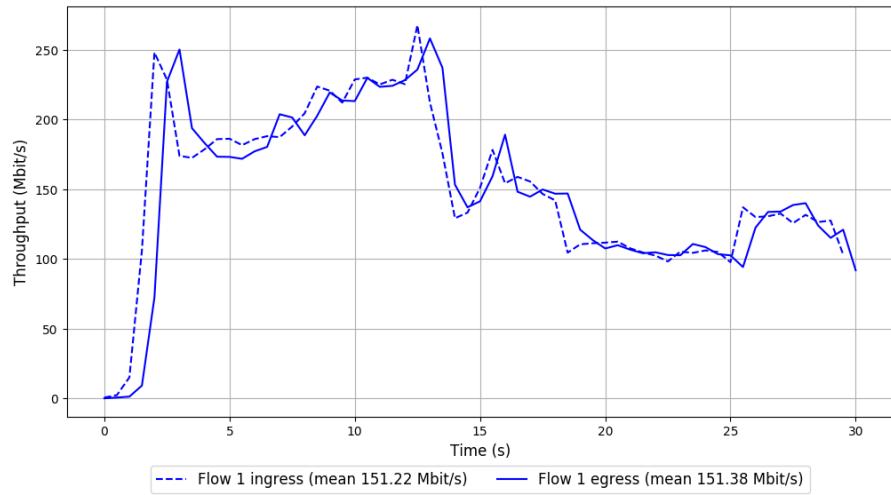


Run 2: Statistics of Copa

```
Start at: 2018-05-30 19:23:32
End at: 2018-05-30 19:24:02
Local clock offset: 6.238 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-05-30 22:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.38 Mbit/s
95th percentile per-packet one-way delay: 89.181 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 151.38 Mbit/s
95th percentile per-packet one-way delay: 89.181 ms
Loss rate: 0.47%
```

Run 2: Report of Copa — Data Link

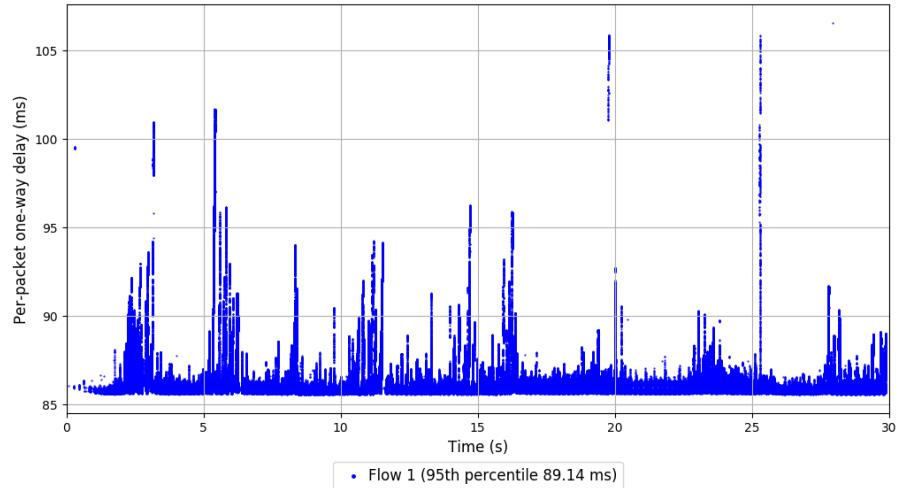
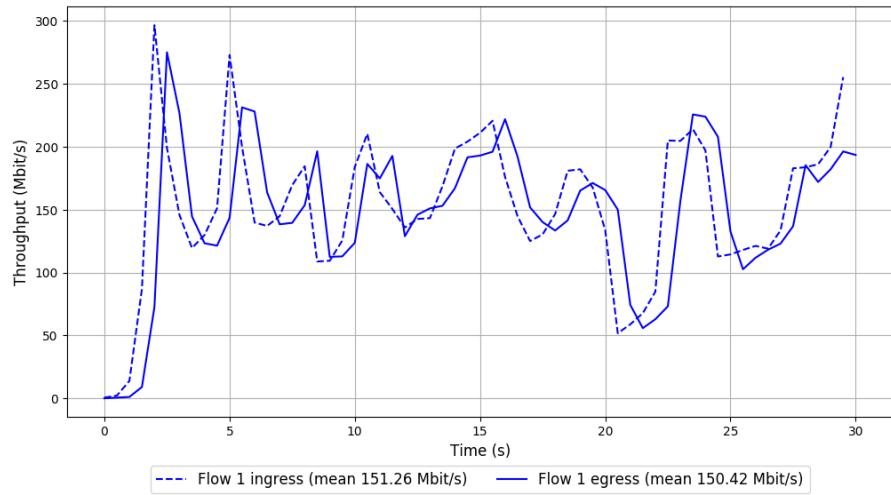


Run 3: Statistics of Copa

```
Start at: 2018-05-30 19:43:58
End at: 2018-05-30 19:44:28
Local clock offset: 1.936 ms
Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-05-30 22:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.42 Mbit/s
95th percentile per-packet one-way delay: 89.142 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 150.42 Mbit/s
95th percentile per-packet one-way delay: 89.142 ms
Loss rate: 1.12%
```

Run 3: Report of Copa — Data Link

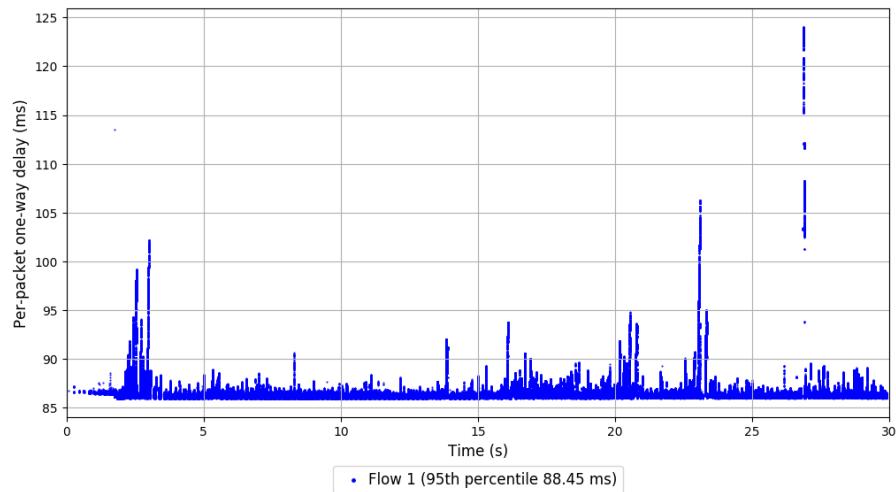
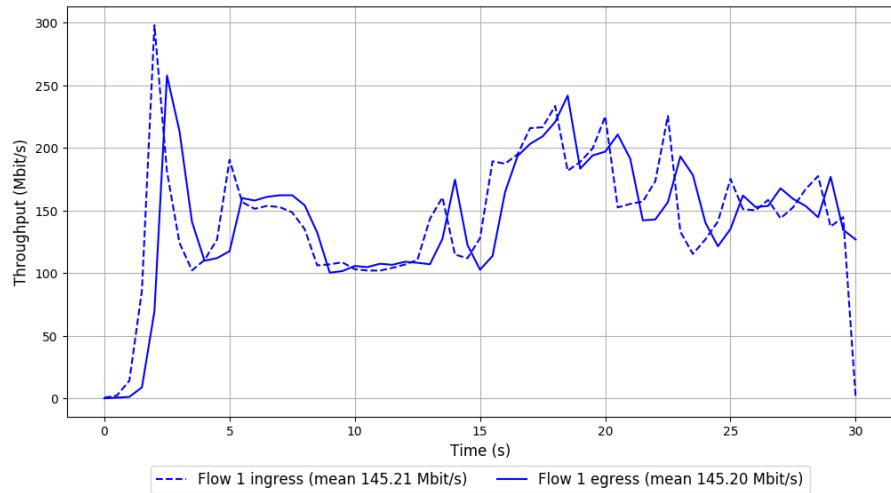


Run 4: Statistics of Copa

```
Start at: 2018-05-30 20:04:32
End at: 2018-05-30 20:05:02
Local clock offset: 1.544 ms
Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-05-30 22:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.20 Mbit/s
95th percentile per-packet one-way delay: 88.451 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 145.20 Mbit/s
95th percentile per-packet one-way delay: 88.451 ms
Loss rate: 0.58%
```

Run 4: Report of Copa — Data Link

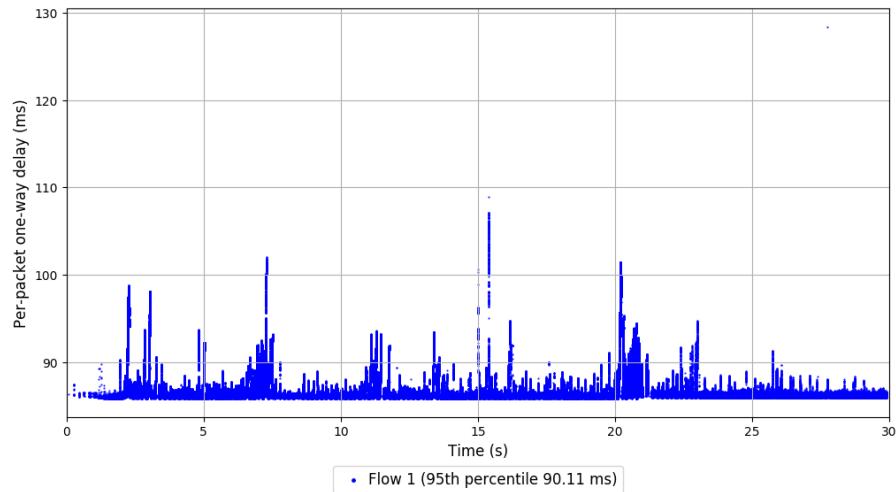
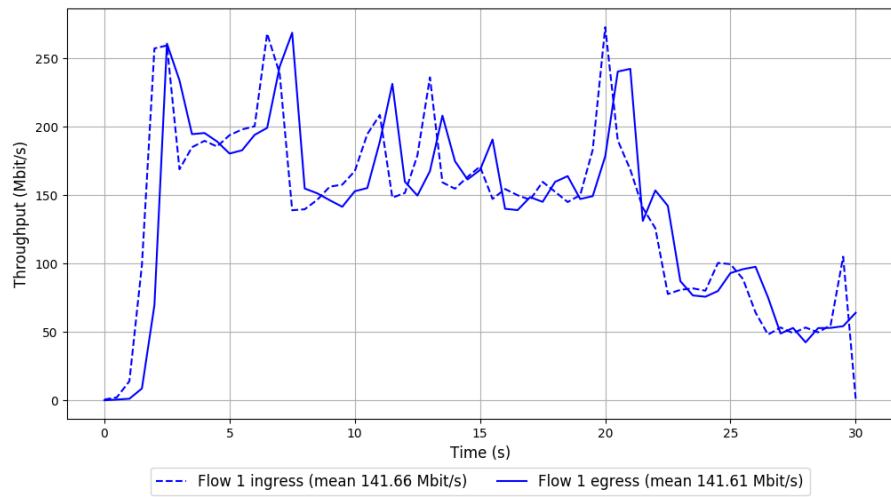


Run 5: Statistics of Copa

```
Start at: 2018-05-30 20:25:03
End at: 2018-05-30 20:25:33
Local clock offset: 1.128 ms
Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2018-05-30 22:29:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.61 Mbit/s
95th percentile per-packet one-way delay: 90.115 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 141.61 Mbit/s
95th percentile per-packet one-way delay: 90.115 ms
Loss rate: 0.61%
```

Run 5: Report of Copa — Data Link

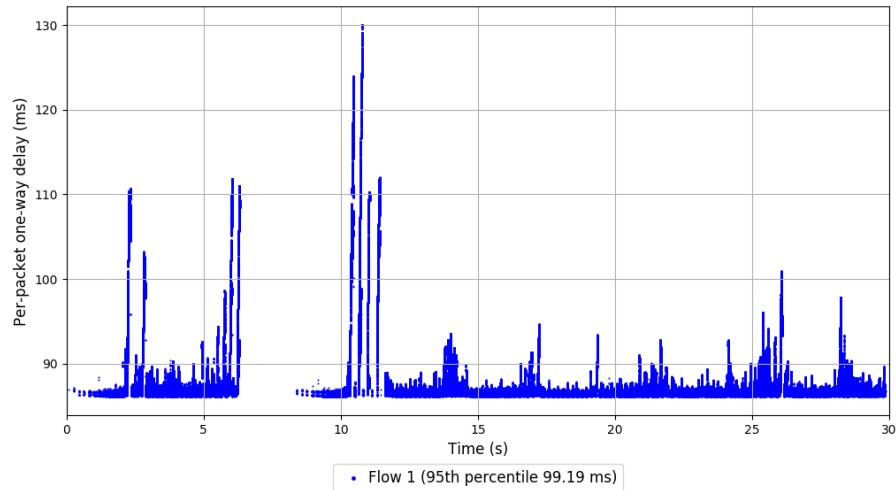
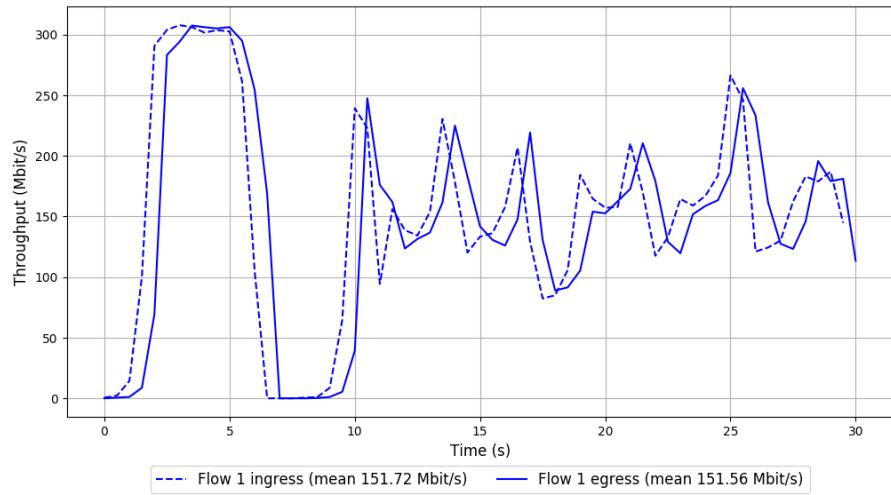


Run 6: Statistics of Copa

```
Start at: 2018-05-30 20:45:38
End at: 2018-05-30 20:46:08
Local clock offset: 0.598 ms
Remote clock offset: 0.135 ms

# Below is generated by plot.py at 2018-05-30 22:29:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.56 Mbit/s
95th percentile per-packet one-way delay: 99.186 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 151.56 Mbit/s
95th percentile per-packet one-way delay: 99.186 ms
Loss rate: 0.67%
```

Run 6: Report of Copa — Data Link

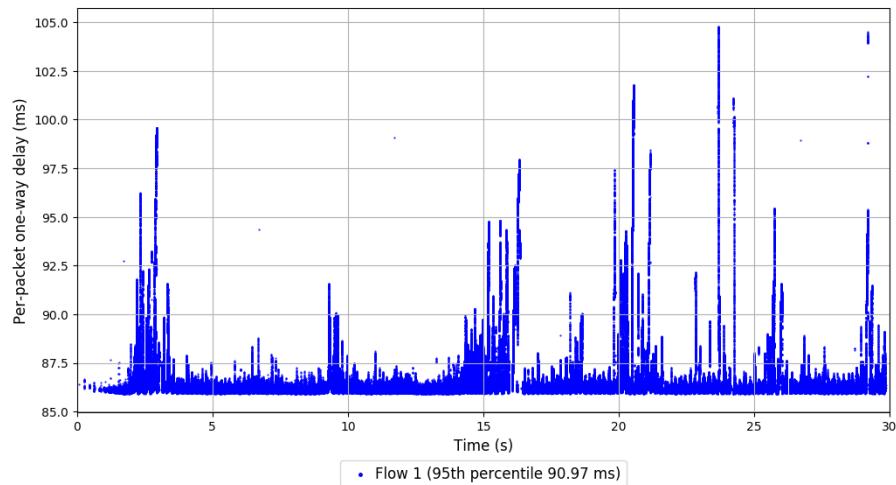
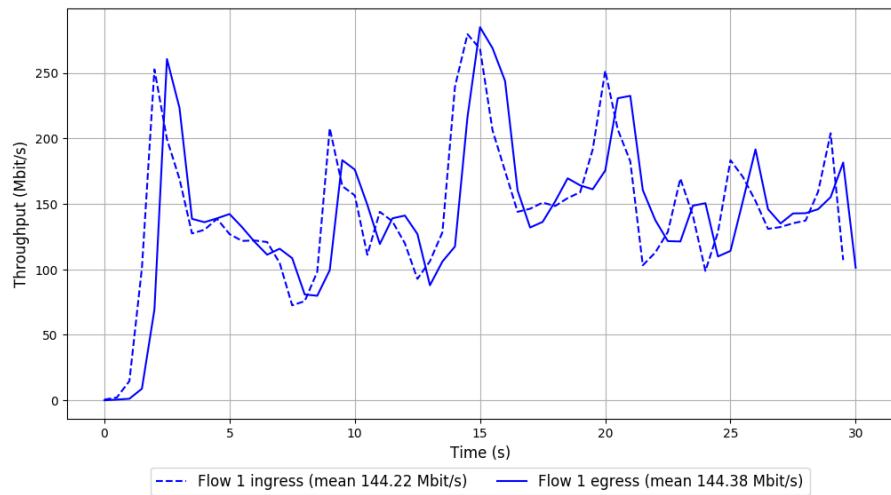


Run 7: Statistics of Copa

```
Start at: 2018-05-30 21:05:54
End at: 2018-05-30 21:06:24
Local clock offset: 0.445 ms
Remote clock offset: 0.159 ms

# Below is generated by plot.py at 2018-05-30 22:31:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.38 Mbit/s
95th percentile per-packet one-way delay: 90.973 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 144.38 Mbit/s
95th percentile per-packet one-way delay: 90.973 ms
Loss rate: 0.48%
```

Run 7: Report of Copa — Data Link

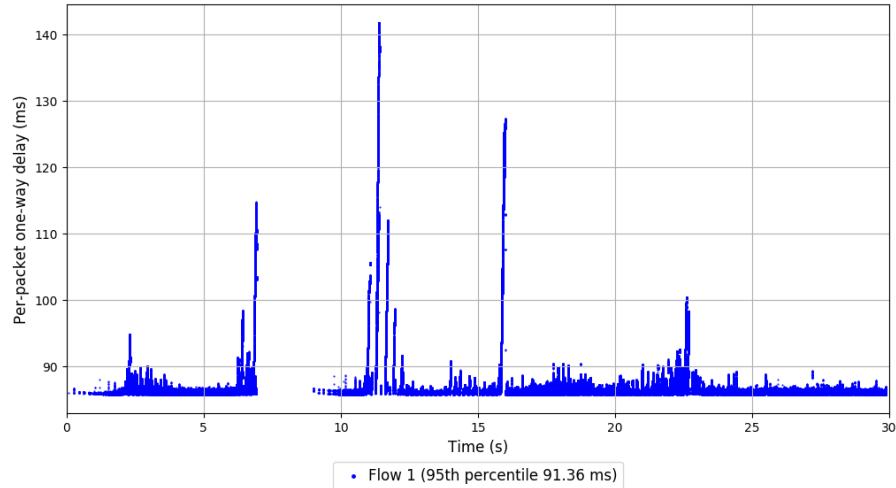
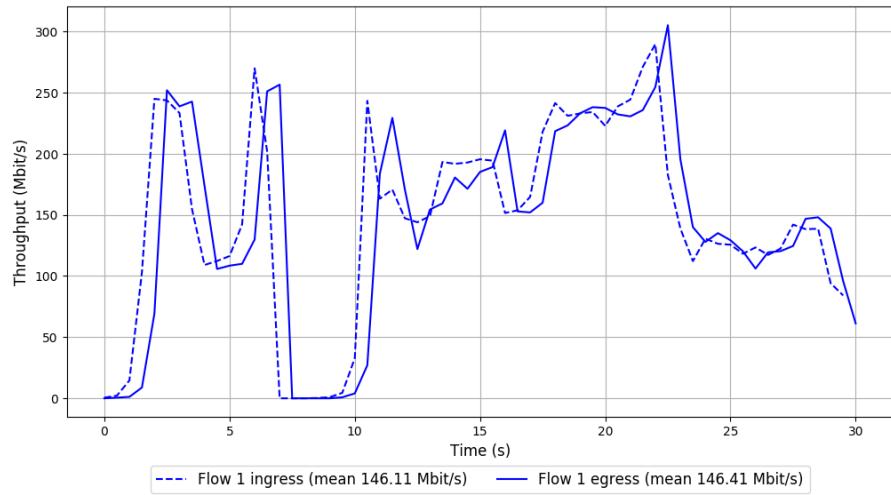


Run 8: Statistics of Copa

```
Start at: 2018-05-30 21:26:22
End at: 2018-05-30 21:26:52
Local clock offset: 0.628 ms
Remote clock offset: 0.223 ms

# Below is generated by plot.py at 2018-05-30 22:31:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 146.41 Mbit/s
95th percentile per-packet one-way delay: 91.358 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 146.41 Mbit/s
95th percentile per-packet one-way delay: 91.358 ms
Loss rate: 0.38%
```

Run 8: Report of Copa — Data Link

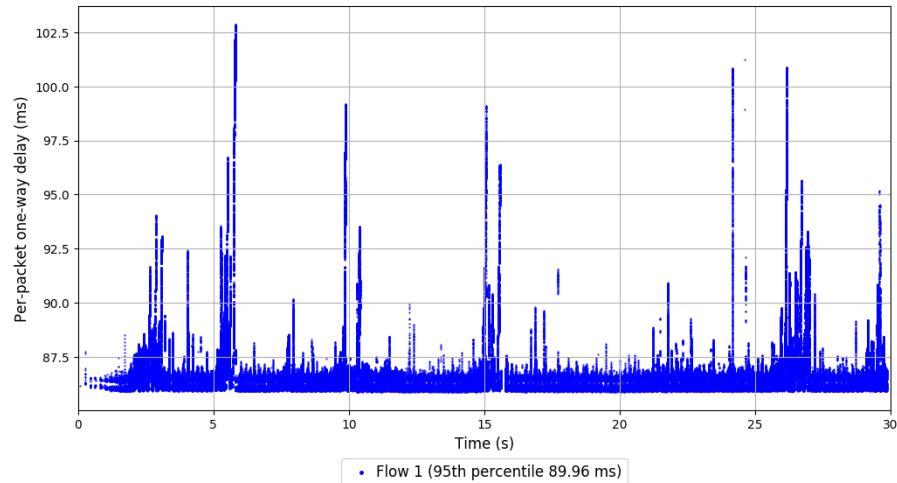
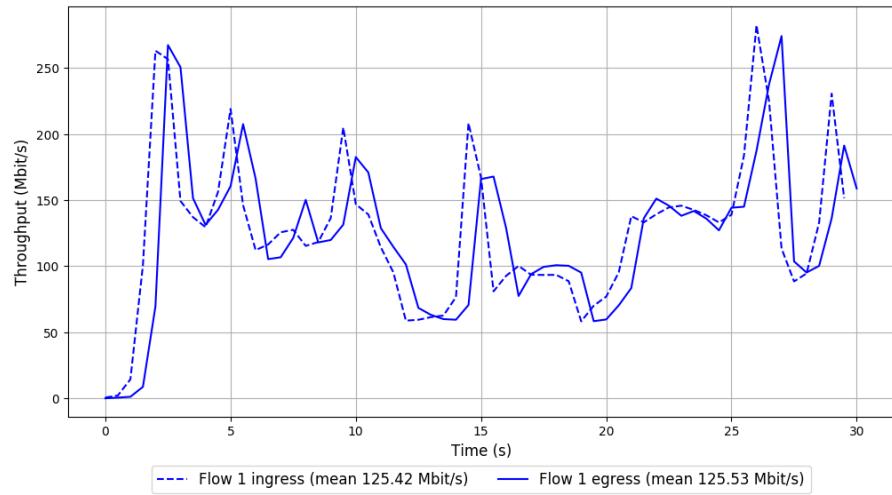


Run 9: Statistics of Copa

```
Start at: 2018-05-30 21:46:54
End at: 2018-05-30 21:47:24
Local clock offset: 0.256 ms
Remote clock offset: 0.242 ms

# Below is generated by plot.py at 2018-05-30 22:33:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.53 Mbit/s
95th percentile per-packet one-way delay: 89.956 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 125.53 Mbit/s
95th percentile per-packet one-way delay: 89.956 ms
Loss rate: 0.53%
```

Run 9: Report of Copa — Data Link

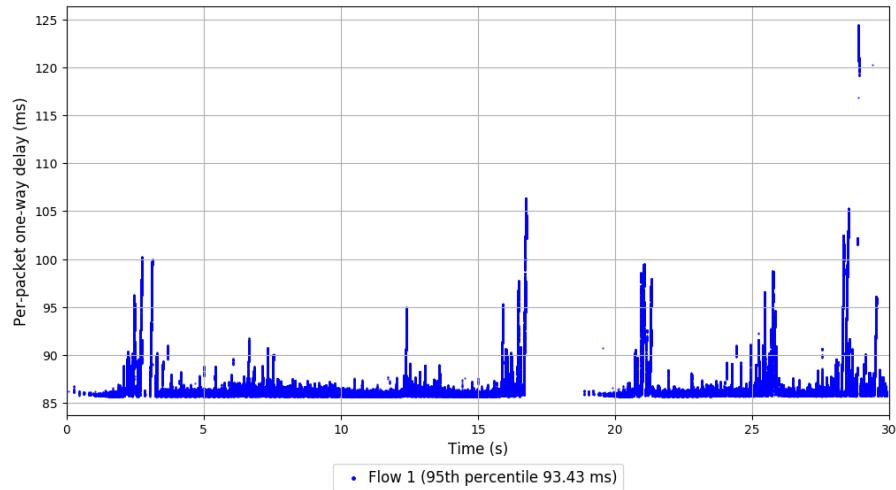
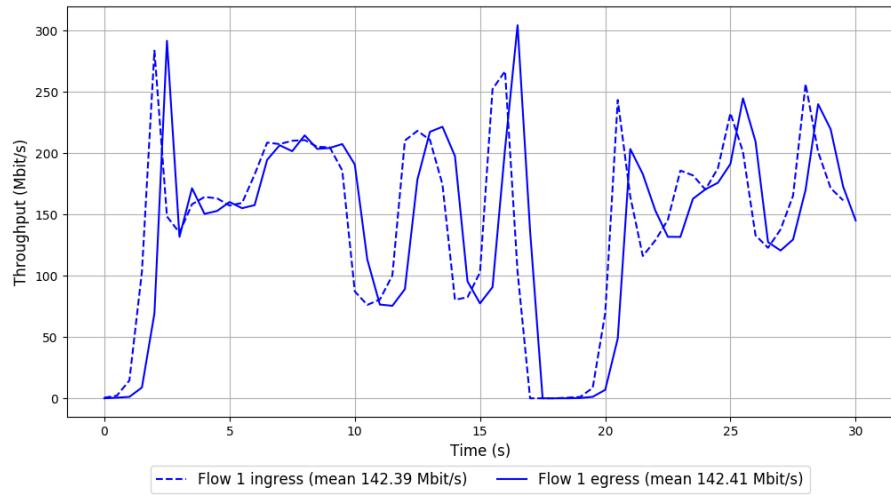


Run 10: Statistics of Copa

```
Start at: 2018-05-30 22:07:20
End at: 2018-05-30 22:07:50
Local clock offset: -0.471 ms
Remote clock offset: 0.269 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.41 Mbit/s
95th percentile per-packet one-way delay: 93.428 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 142.41 Mbit/s
95th percentile per-packet one-way delay: 93.428 ms
Loss rate: 0.55%
```

Run 10: Report of Copa — Data Link

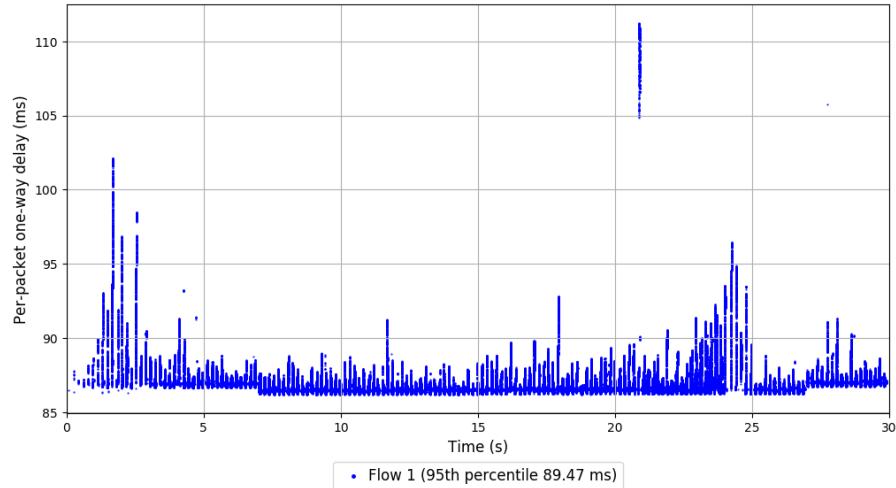
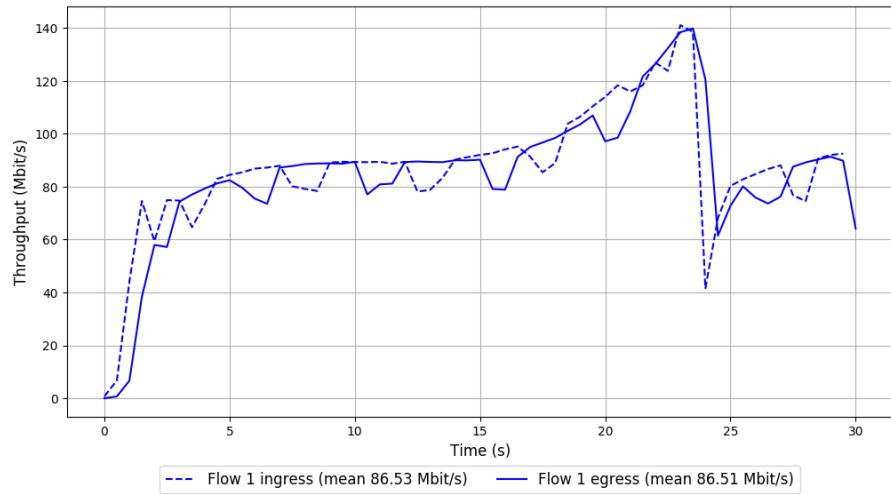


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2018-05-30 19:00:57
End at: 2018-05-30 19:01:27
Local clock offset: 5.426 ms
Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.51 Mbit/s
95th percentile per-packet one-way delay: 89.475 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 86.51 Mbit/s
95th percentile per-packet one-way delay: 89.475 ms
Loss rate: 0.60%
```

Run 1: Report of TCP Cubic — Data Link

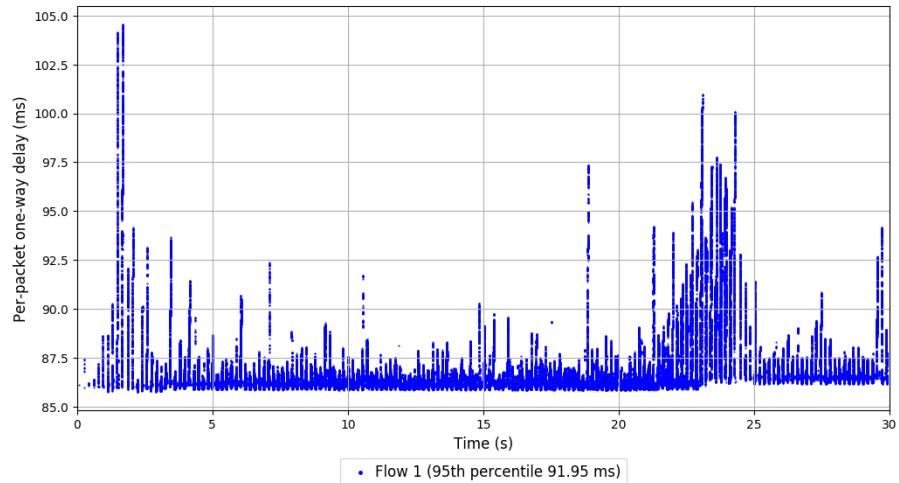
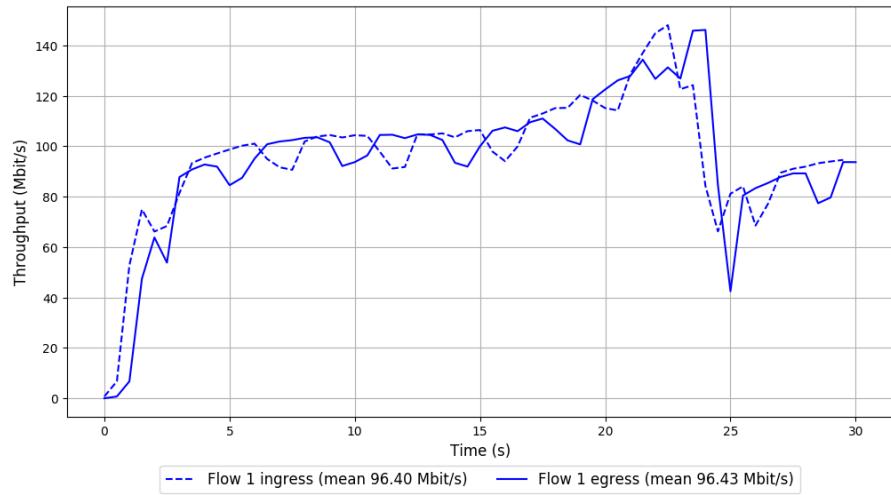


Run 2: Statistics of TCP Cubic

```
Start at: 2018-05-30 19:21:01
End at: 2018-05-30 19:21:31
Local clock offset: 5.851 ms
Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 91.946 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 96.43 Mbit/s
95th percentile per-packet one-way delay: 91.946 ms
Loss rate: 0.55%
```

Run 2: Report of TCP Cubic — Data Link

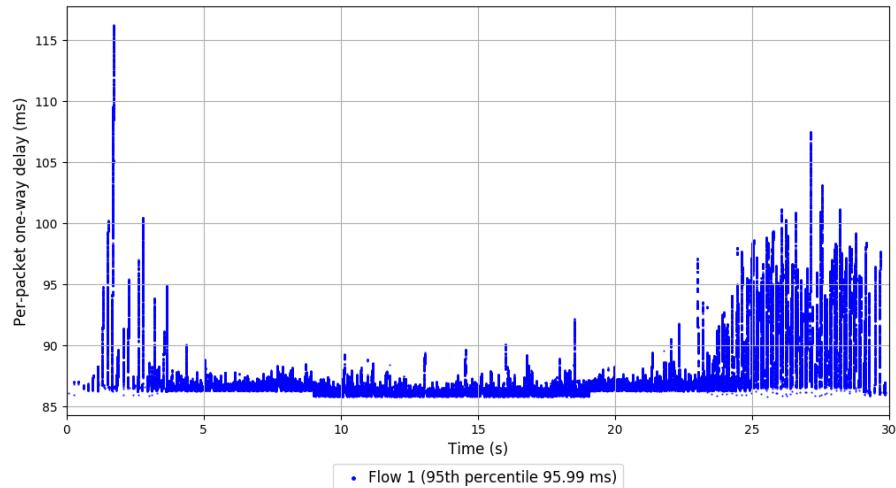
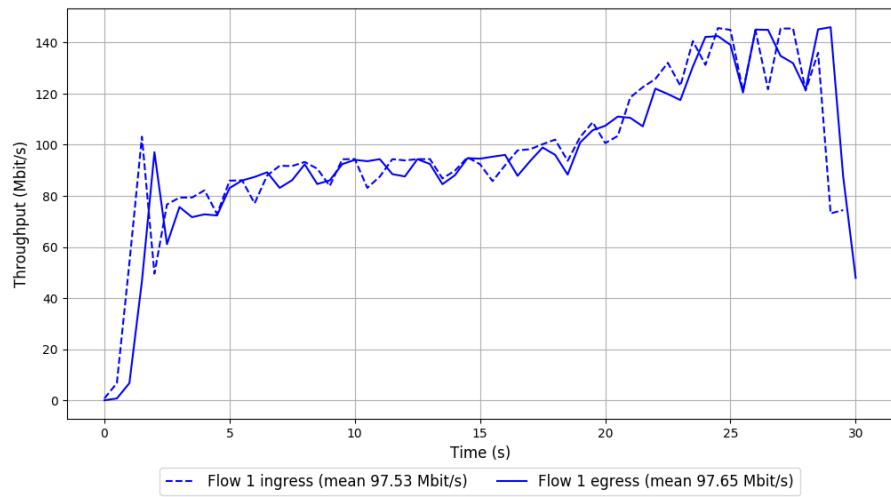


Run 3: Statistics of TCP Cubic

```
Start at: 2018-05-30 19:41:25
End at: 2018-05-30 19:41:55
Local clock offset: 2.125 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 97.65 Mbit/s
95th percentile per-packet one-way delay: 95.993 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 97.65 Mbit/s
95th percentile per-packet one-way delay: 95.993 ms
Loss rate: 0.45%
```

Run 3: Report of TCP Cubic — Data Link

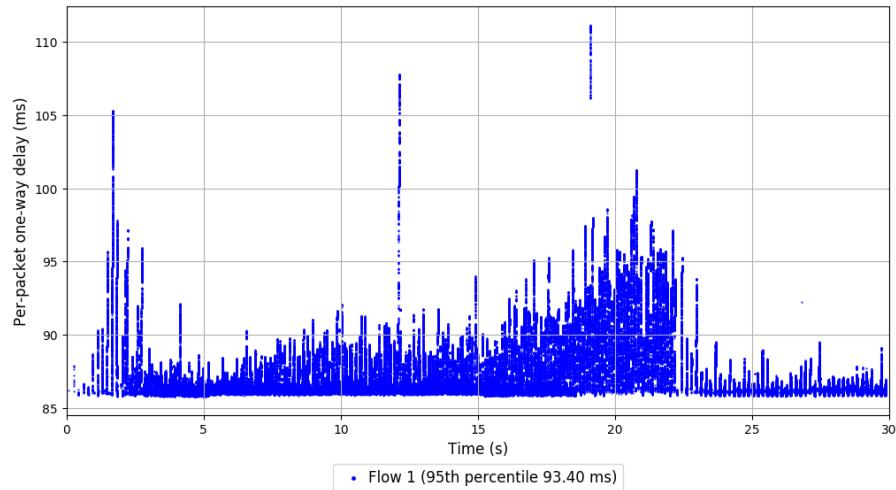
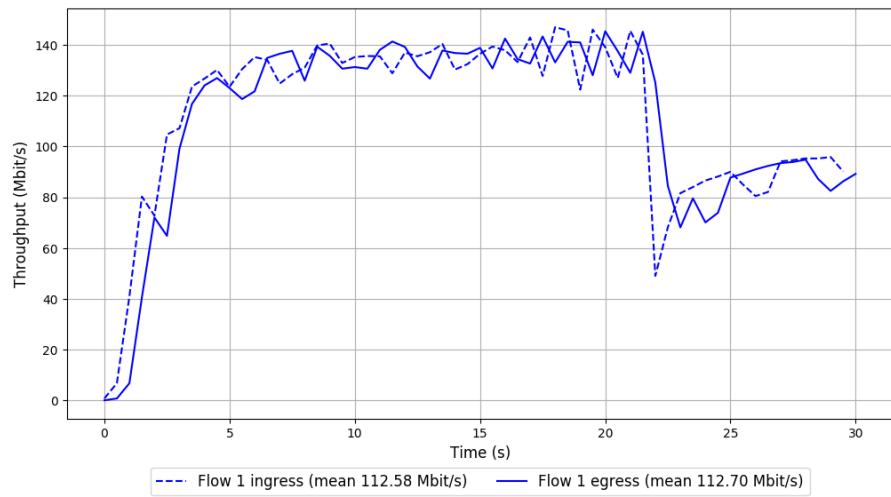


Run 4: Statistics of TCP Cubic

```
Start at: 2018-05-30 20:01:59
End at: 2018-05-30 20:02:29
Local clock offset: 1.687 ms
Remote clock offset: 0.128 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 112.70 Mbit/s
95th percentile per-packet one-way delay: 93.397 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 112.70 Mbit/s
95th percentile per-packet one-way delay: 93.397 ms
Loss rate: 0.47%
```

Run 4: Report of TCP Cubic — Data Link

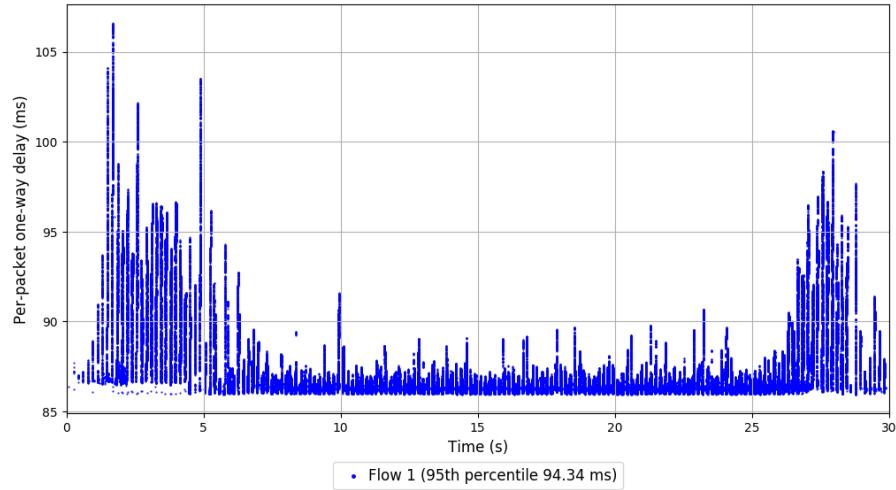
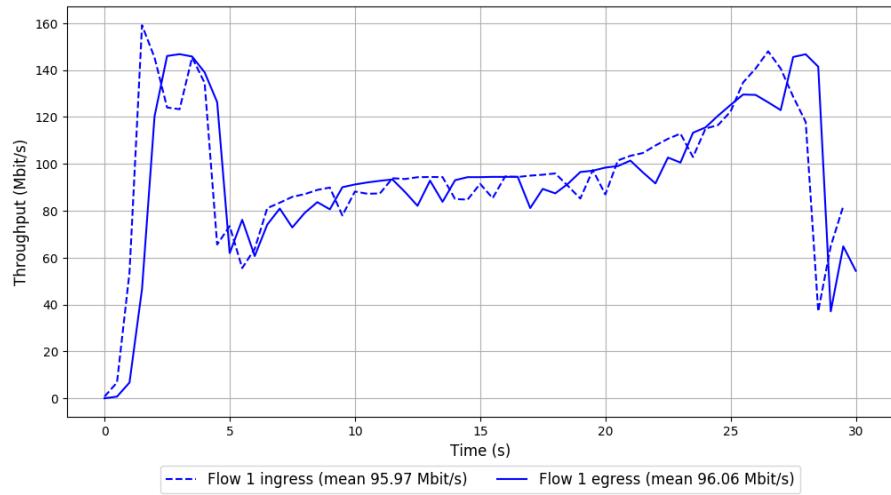


Run 5: Statistics of TCP Cubic

```
Start at: 2018-05-30 20:22:30
End at: 2018-05-30 20:23:00
Local clock offset: 1.222 ms
Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 94.344 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 94.344 ms
Loss rate: 0.48%
```

Run 5: Report of TCP Cubic — Data Link

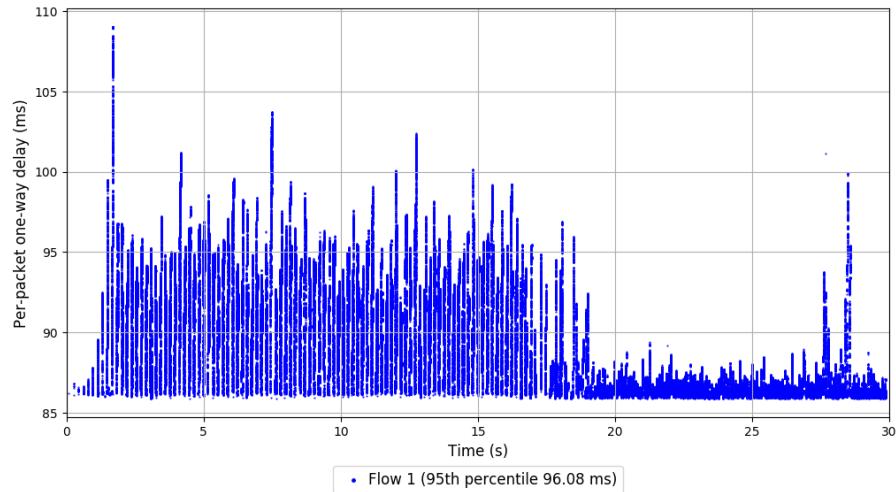
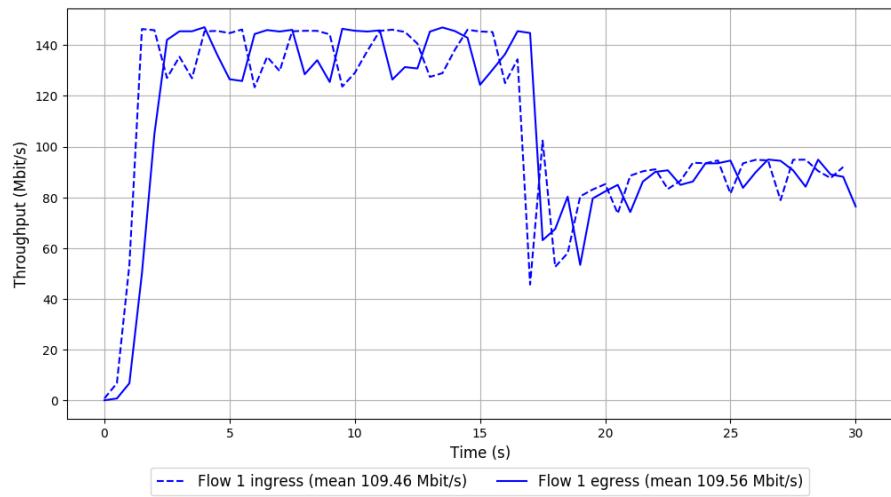


Run 6: Statistics of TCP Cubic

```
Start at: 2018-05-30 20:43:05
End at: 2018-05-30 20:43:35
Local clock offset: 0.498 ms
Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 109.56 Mbit/s
95th percentile per-packet one-way delay: 96.076 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 109.56 Mbit/s
95th percentile per-packet one-way delay: 96.076 ms
Loss rate: 0.48%
```

Run 6: Report of TCP Cubic — Data Link

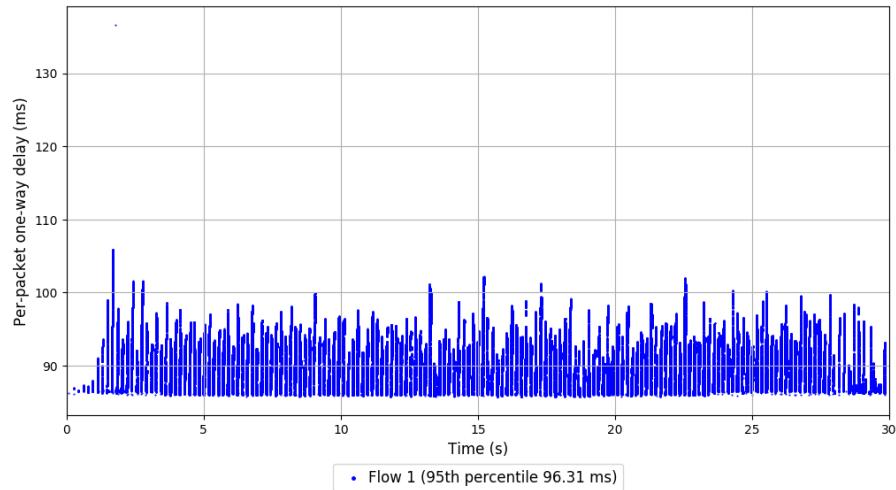
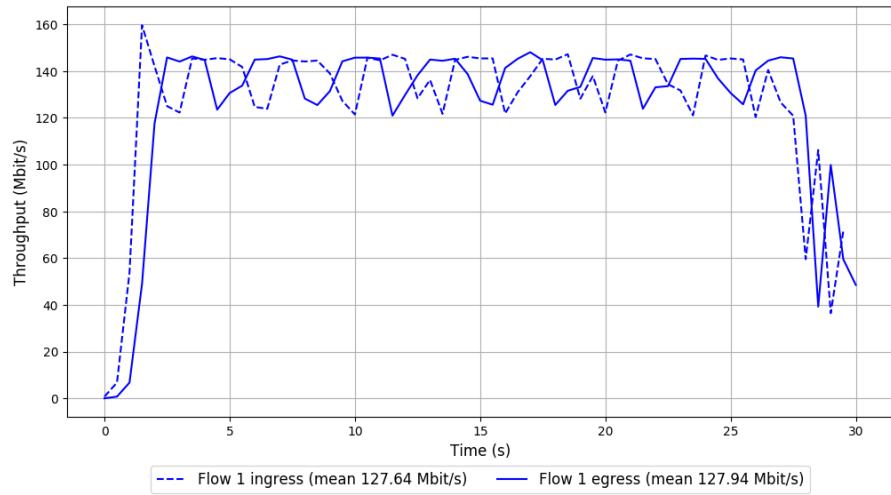


Run 7: Statistics of TCP Cubic

```
Start at: 2018-05-30 21:03:21
End at: 2018-05-30 21:03:51
Local clock offset: 0.286 ms
Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 127.94 Mbit/s
95th percentile per-packet one-way delay: 96.307 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 127.94 Mbit/s
95th percentile per-packet one-way delay: 96.307 ms
Loss rate: 0.35%
```

Run 7: Report of TCP Cubic — Data Link

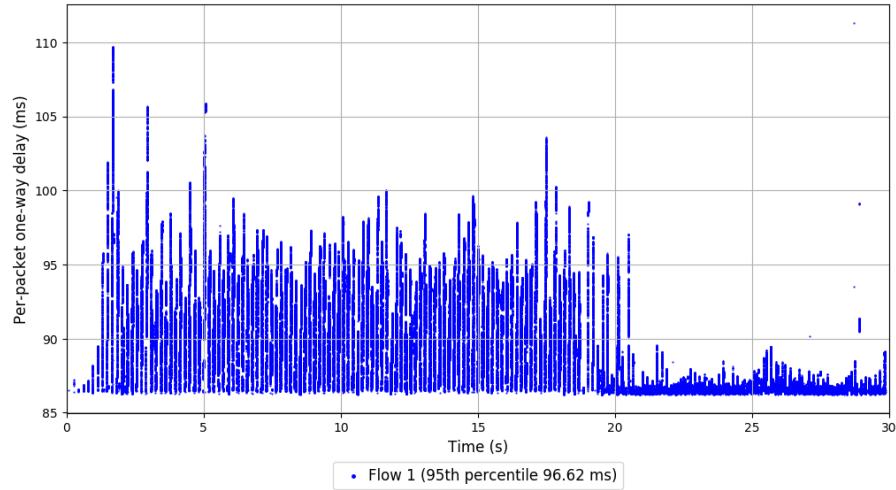
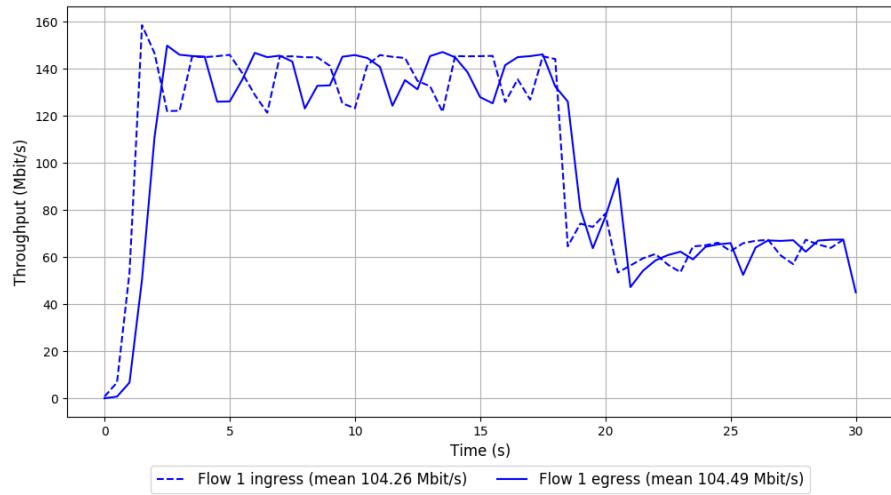


Run 8: Statistics of TCP Cubic

```
Start at: 2018-05-30 21:23:49
End at: 2018-05-30 21:24:19
Local clock offset: 1.013 ms
Remote clock offset: 0.232 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.49 Mbit/s
95th percentile per-packet one-way delay: 96.620 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 104.49 Mbit/s
95th percentile per-packet one-way delay: 96.620 ms
Loss rate: 0.36%
```

Run 8: Report of TCP Cubic — Data Link

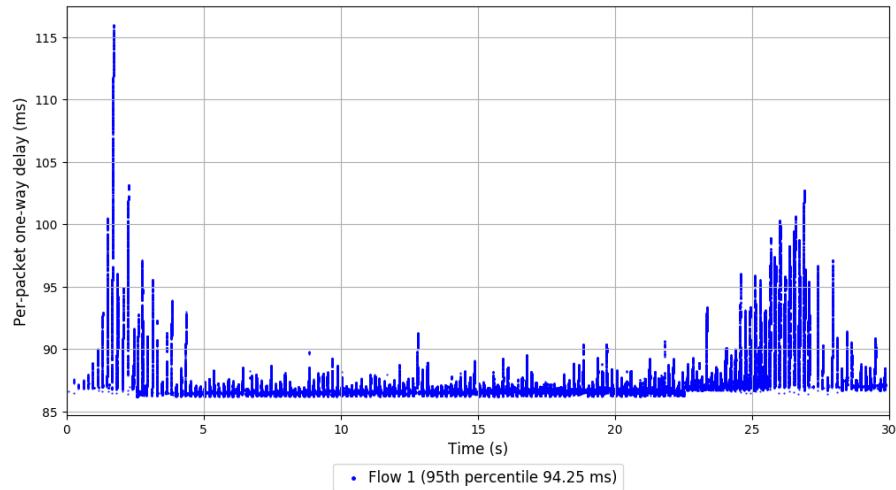
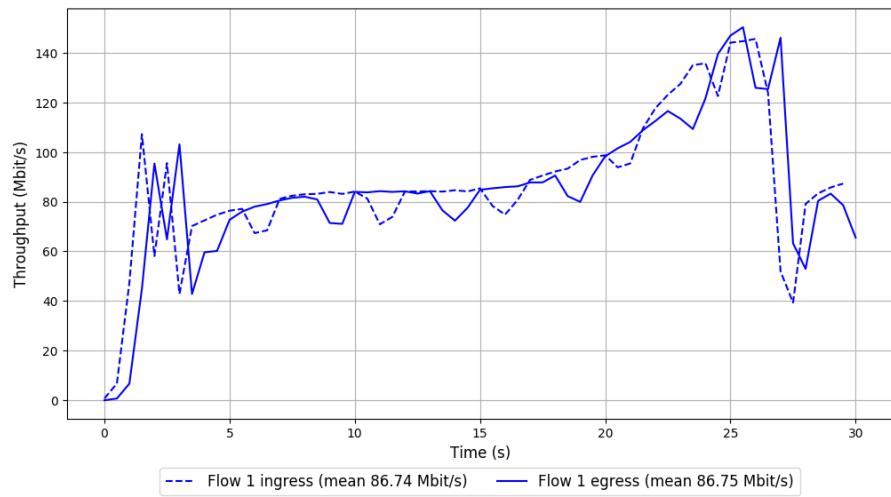


Run 9: Statistics of TCP Cubic

```
Start at: 2018-05-30 21:44:21
End at: 2018-05-30 21:44:52
Local clock offset: 0.719 ms
Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 94.254 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 86.75 Mbit/s
95th percentile per-packet one-way delay: 94.254 ms
Loss rate: 0.56%
```

Run 9: Report of TCP Cubic — Data Link

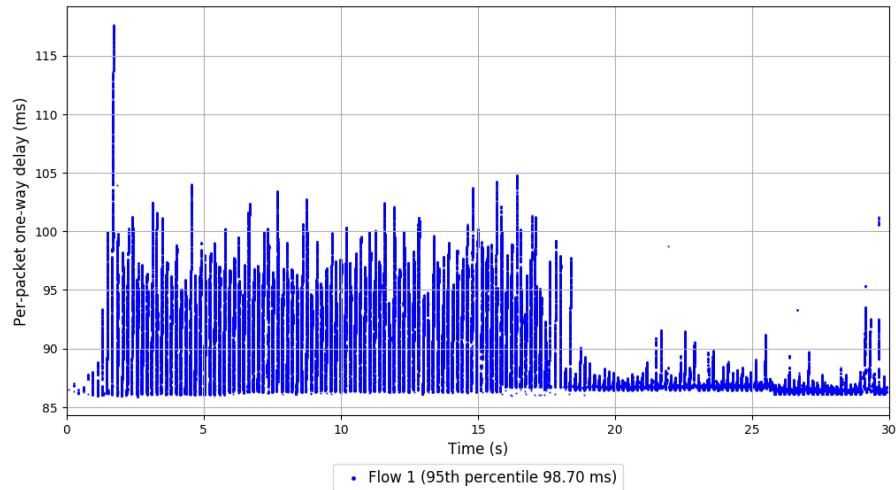
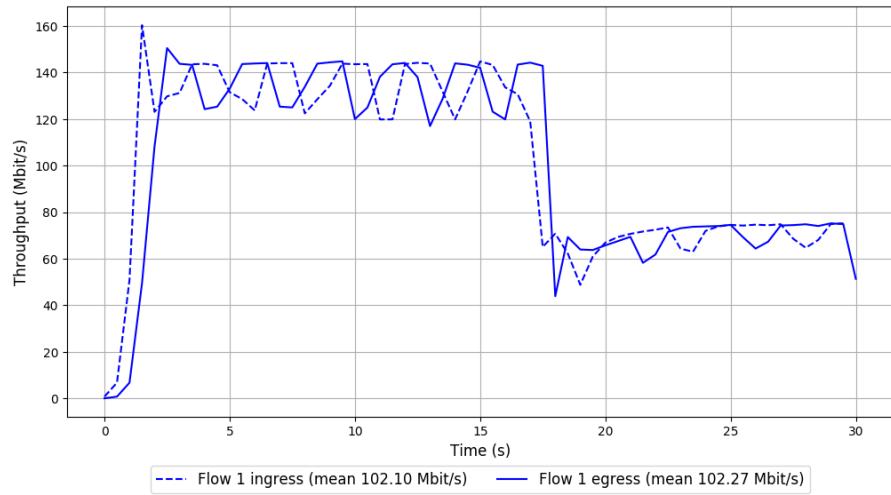


```
Run 10: Statistics of TCP Cubic
```

```
Start at: 2018-05-30 22:04:48
End at: 2018-05-30 22:05:18
Local clock offset: -0.241 ms
Remote clock offset: 0.29 ms

# Below is generated by plot.py at 2018-05-30 22:33:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 102.27 Mbit/s
95th percentile per-packet one-way delay: 98.699 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 102.27 Mbit/s
95th percentile per-packet one-way delay: 98.699 ms
Loss rate: 0.41%
```

Run 10: Report of TCP Cubic — Data Link

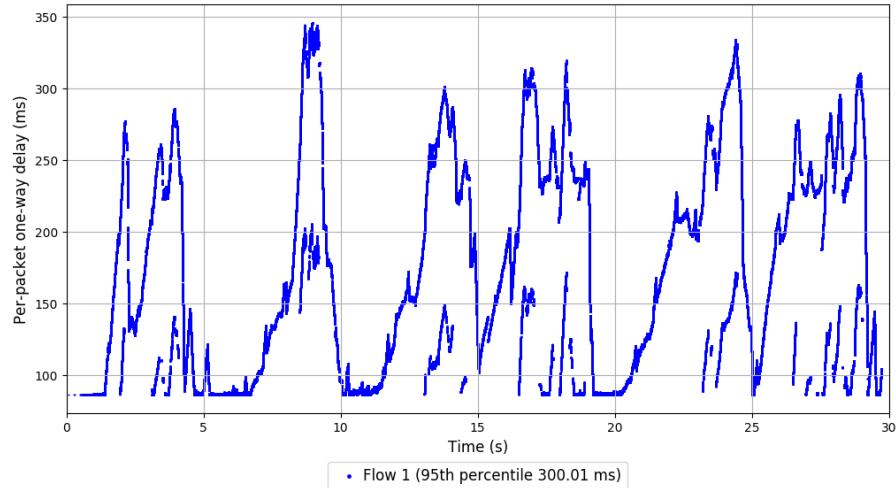
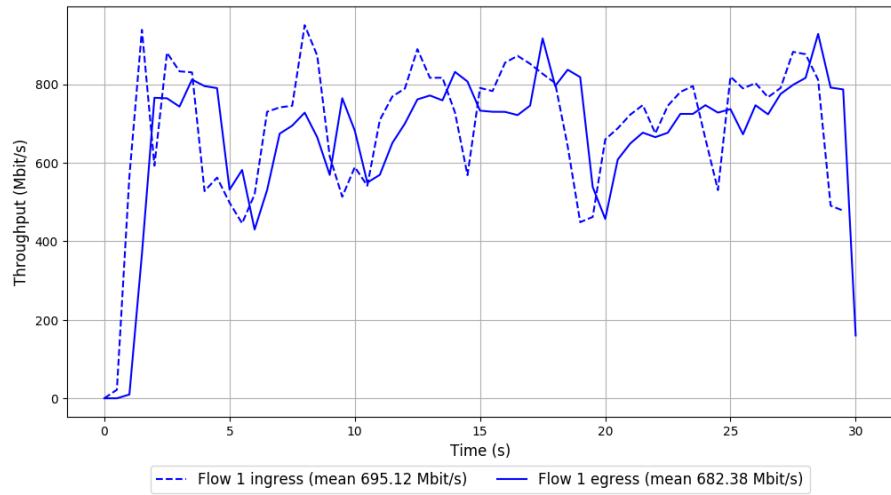


```
Run 1: Statistics of FillP

Start at: 2018-05-30 18:55:34
End at: 2018-05-30 18:56:04
Local clock offset: 7.088 ms
Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2018-05-30 22:46:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 682.38 Mbit/s
95th percentile per-packet one-way delay: 300.015 ms
Loss rate: 2.40%
-- Flow 1:
Average throughput: 682.38 Mbit/s
95th percentile per-packet one-way delay: 300.015 ms
Loss rate: 2.40%
```

Run 1: Report of FillP — Data Link

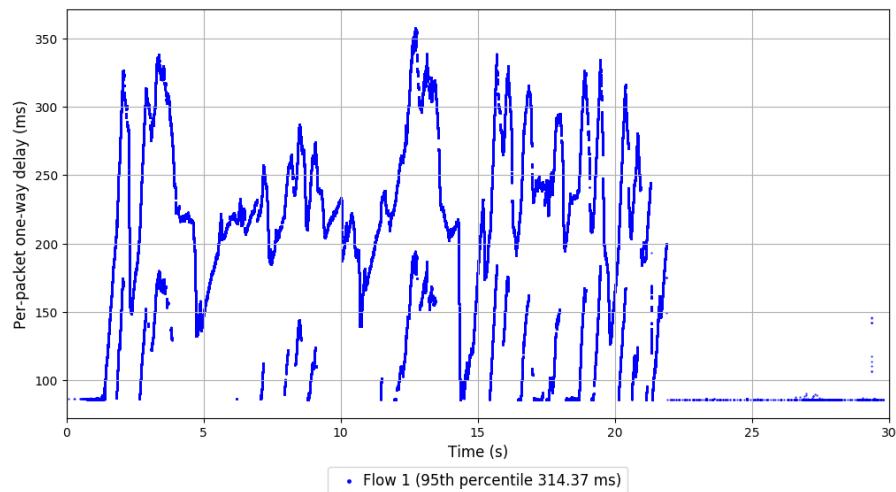
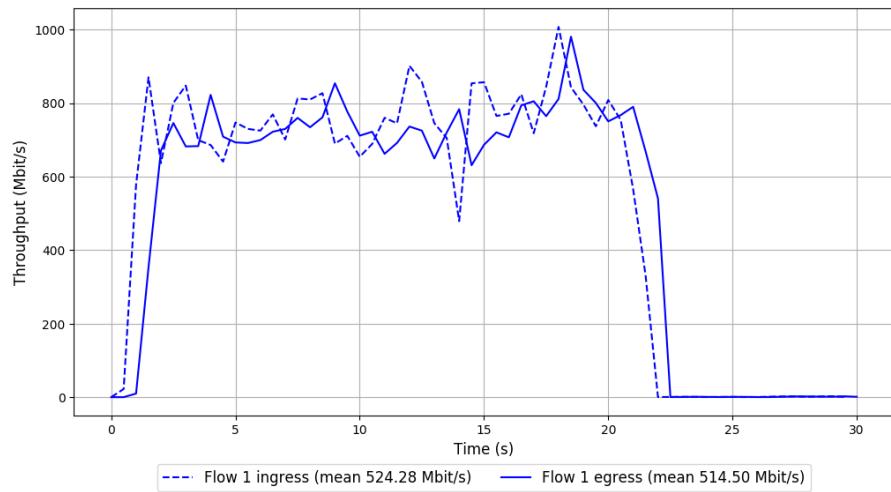


Run 2: Statistics of FillP

```
Start at: 2018-05-30 19:15:46
End at: 2018-05-30 19:16:16
Local clock offset: 5.054 ms
Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2018-05-30 22:46:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 514.50 Mbit/s
95th percentile per-packet one-way delay: 314.366 ms
Loss rate: 2.44%
-- Flow 1:
Average throughput: 514.50 Mbit/s
95th percentile per-packet one-way delay: 314.366 ms
Loss rate: 2.44%
```

Run 2: Report of FillP — Data Link

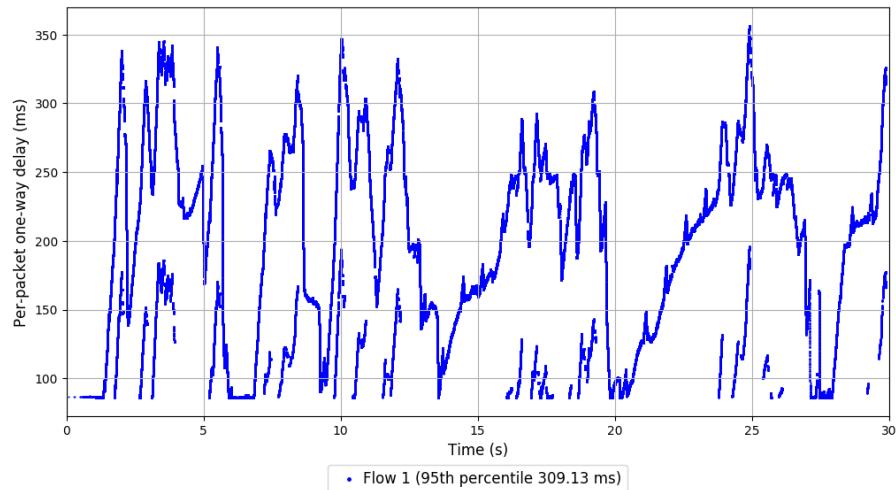
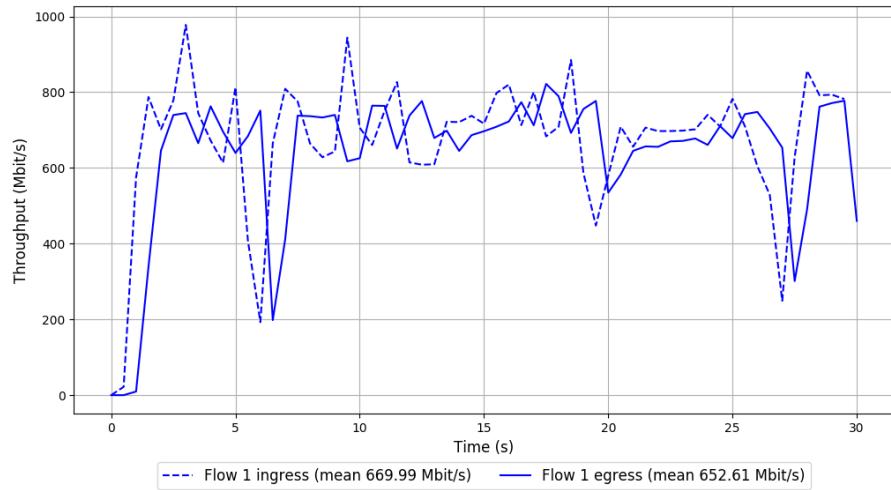


```
Run 3: Statistics of FillP
```

```
Start at: 2018-05-30 19:36:03
End at: 2018-05-30 19:36:33
Local clock offset: 2.427 ms
Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-05-30 22:46:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 652.61 Mbit/s
95th percentile per-packet one-way delay: 309.135 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 652.61 Mbit/s
95th percentile per-packet one-way delay: 309.135 ms
Loss rate: 3.16%
```

Run 3: Report of FillP — Data Link

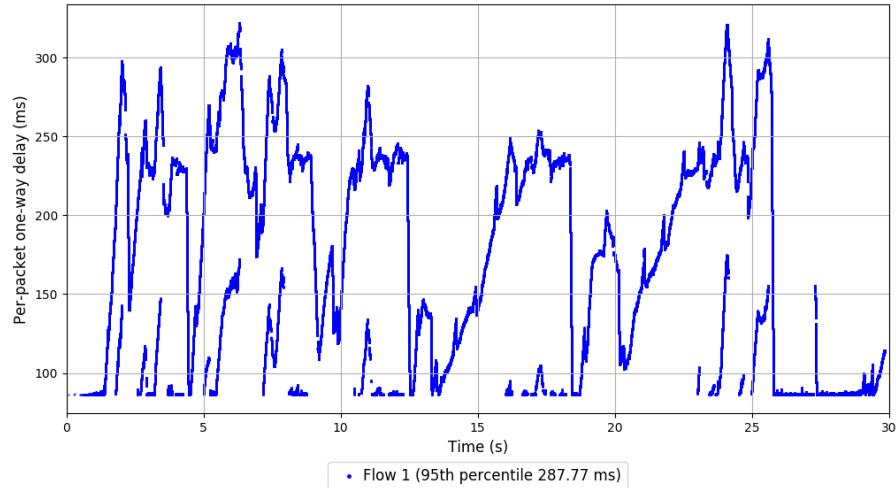
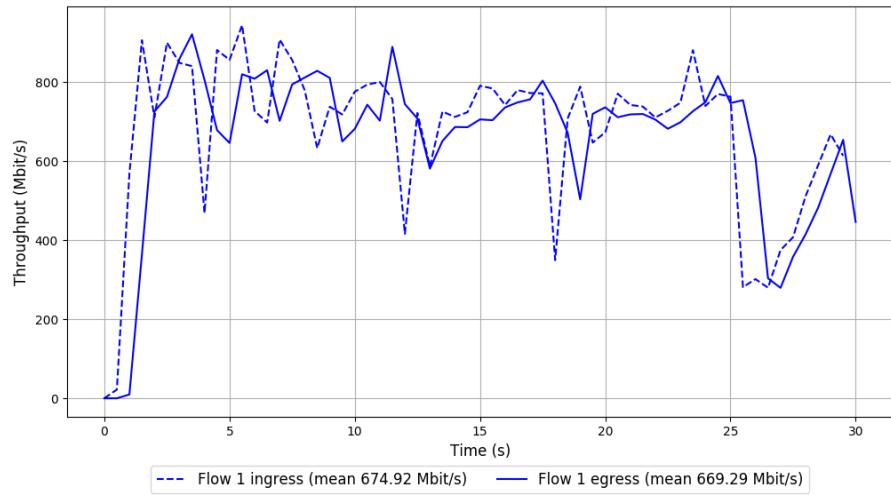


Run 4: Statistics of FillP

```
Start at: 2018-05-30 19:56:38
End at: 2018-05-30 19:57:08
Local clock offset: 3.184 ms
Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-05-30 22:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 669.29 Mbit/s
95th percentile per-packet one-way delay: 287.774 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 669.29 Mbit/s
95th percentile per-packet one-way delay: 287.774 ms
Loss rate: 1.41%
```

Run 4: Report of FillP — Data Link

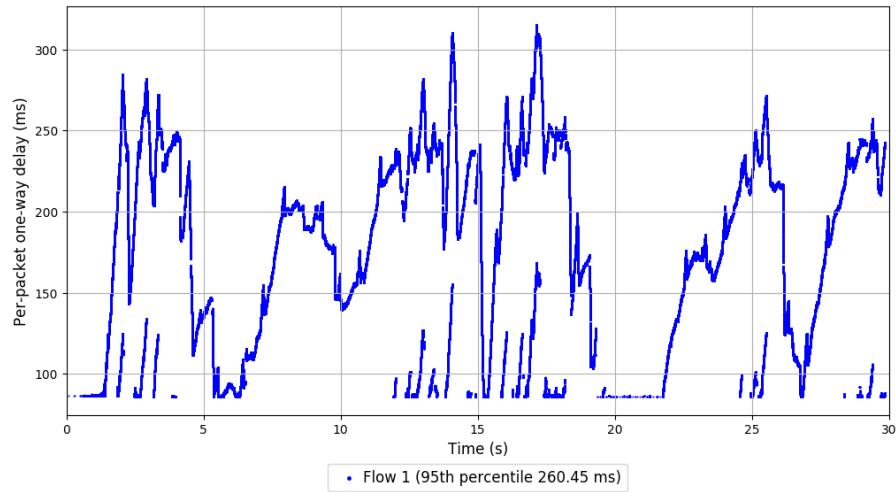
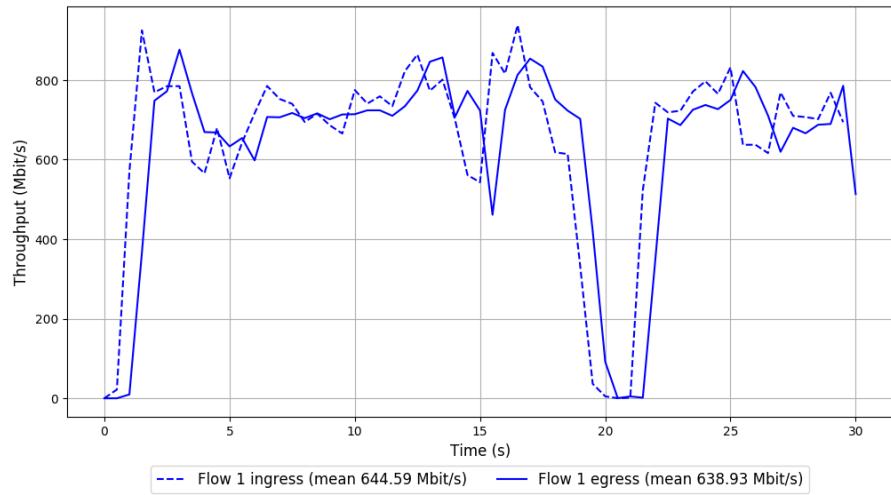


```
Run 5: Statistics of FillP
```

```
Start at: 2018-05-30 20:17:12
End at: 2018-05-30 20:17:42
Local clock offset: 1.073 ms
Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2018-05-30 22:47:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 638.93 Mbit/s
95th percentile per-packet one-way delay: 260.454 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 638.93 Mbit/s
95th percentile per-packet one-way delay: 260.454 ms
Loss rate: 1.45%
```

Run 5: Report of FillP — Data Link

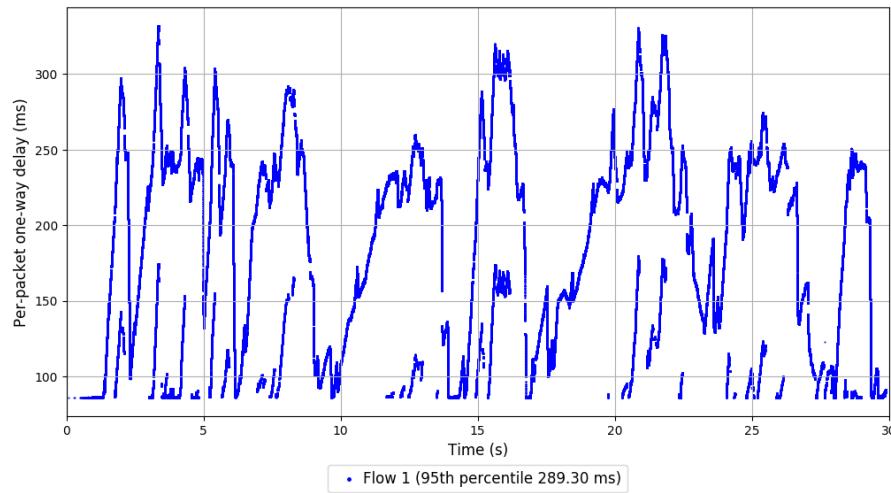
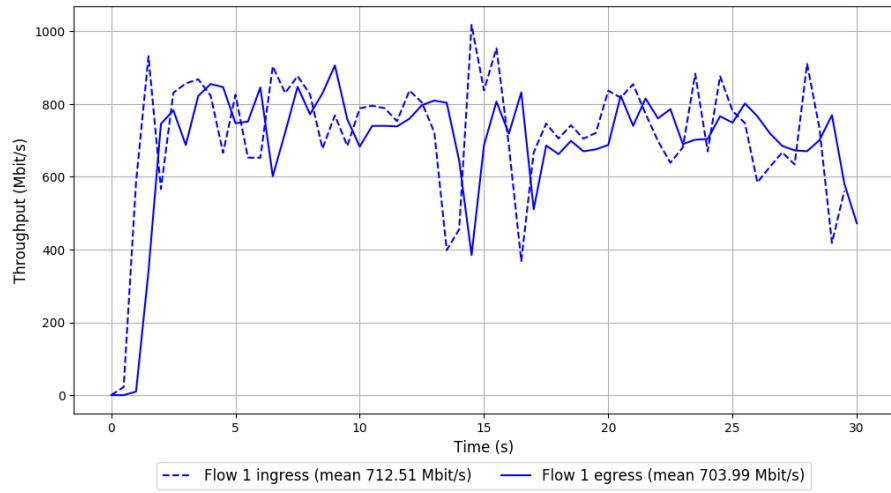


Run 6: Statistics of FillP

```
Start at: 2018-05-30 20:37:39
End at: 2018-05-30 20:38:09
Local clock offset: 0.611 ms
Remote clock offset: 0.239 ms

# Below is generated by plot.py at 2018-05-30 22:47:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 703.99 Mbit/s
95th percentile per-packet one-way delay: 289.303 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 703.99 Mbit/s
95th percentile per-packet one-way delay: 289.303 ms
Loss rate: 1.77%
```

Run 6: Report of FillP — Data Link

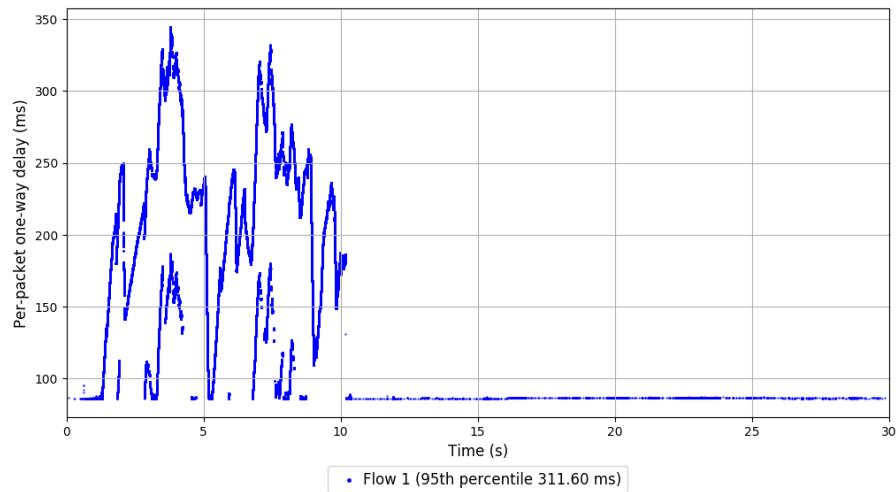
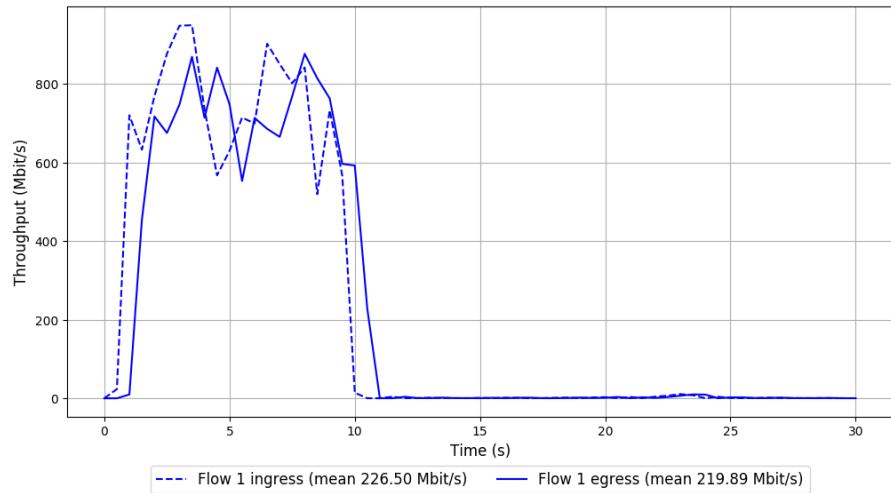


Run 7: Statistics of FillP

```
Start at: 2018-05-30 20:58:18
End at: 2018-05-30 20:58:48
Local clock offset: 0.489 ms
Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2018-05-30 22:47:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.89 Mbit/s
95th percentile per-packet one-way delay: 311.602 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 219.89 Mbit/s
95th percentile per-packet one-way delay: 311.602 ms
Loss rate: 3.42%
```

Run 7: Report of FillP — Data Link

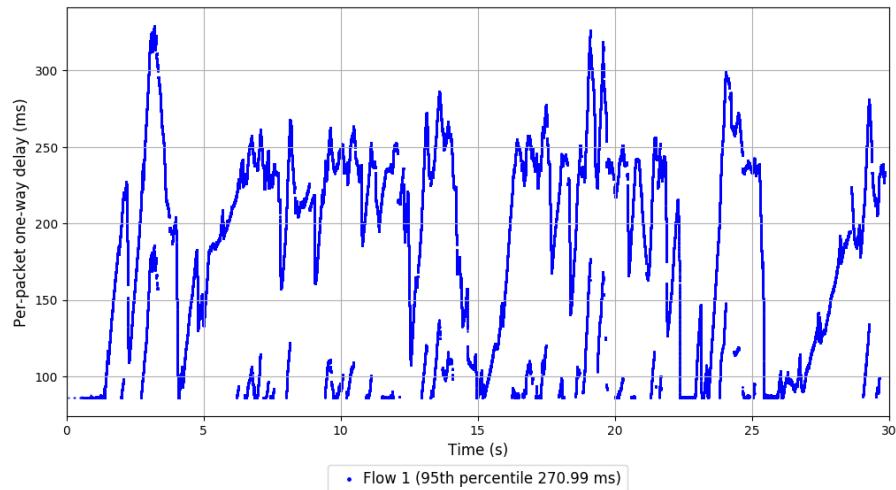
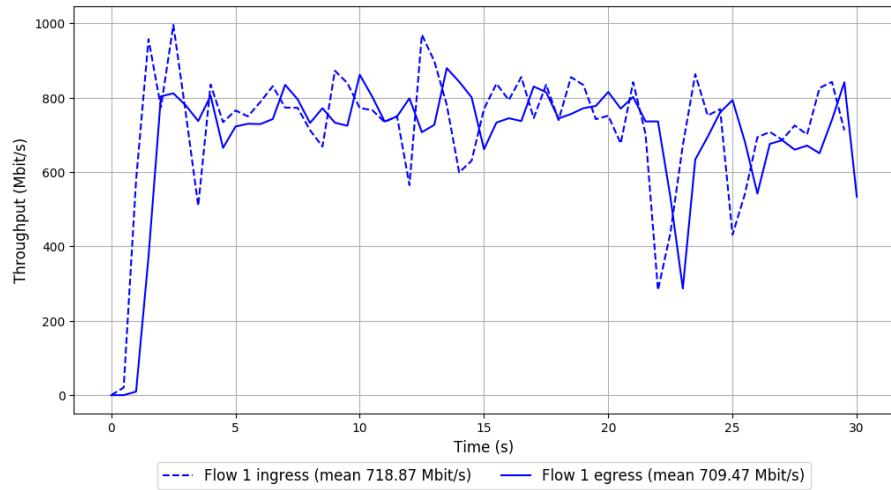


Run 8: Statistics of FillP

```
Start at: 2018-05-30 21:18:26
End at: 2018-05-30 21:18:56
Local clock offset: 0.635 ms
Remote clock offset: 0.188 ms

# Below is generated by plot.py at 2018-05-30 22:49:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 709.47 Mbit/s
95th percentile per-packet one-way delay: 270.987 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 709.47 Mbit/s
95th percentile per-packet one-way delay: 270.987 ms
Loss rate: 1.88%
```

Run 8: Report of FillP — Data Link

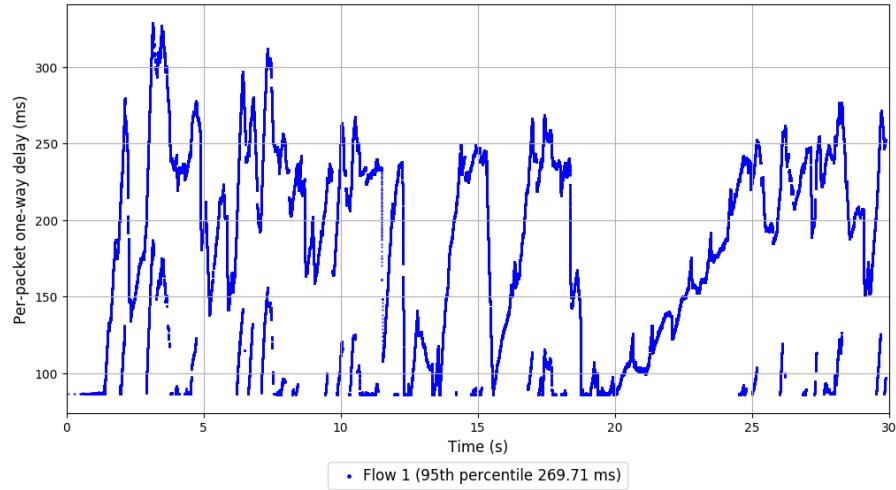
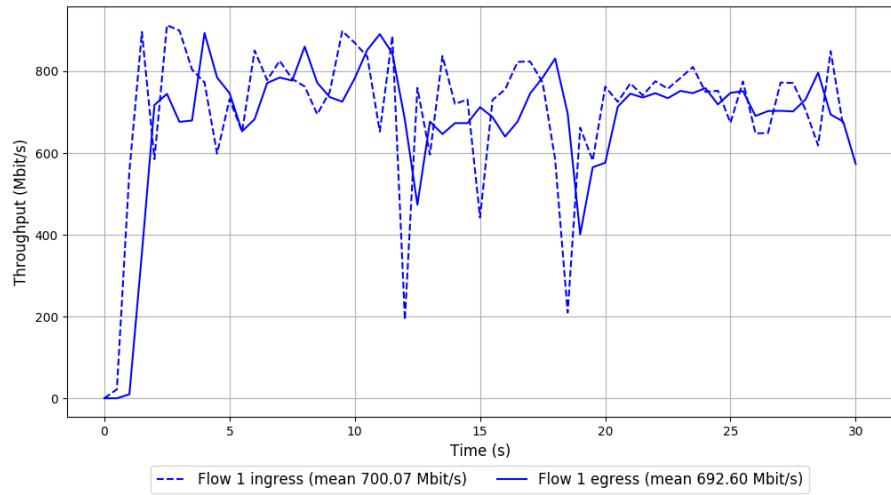


```
Run 9: Statistics of FillP
```

```
Start at: 2018-05-30 21:38:56
End at: 2018-05-30 21:39:26
Local clock offset: 0.87 ms
Remote clock offset: 0.249 ms

# Below is generated by plot.py at 2018-05-30 22:53:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 692.60 Mbit/s
95th percentile per-packet one-way delay: 269.714 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 692.60 Mbit/s
95th percentile per-packet one-way delay: 269.714 ms
Loss rate: 1.64%
```

Run 9: Report of FillP — Data Link

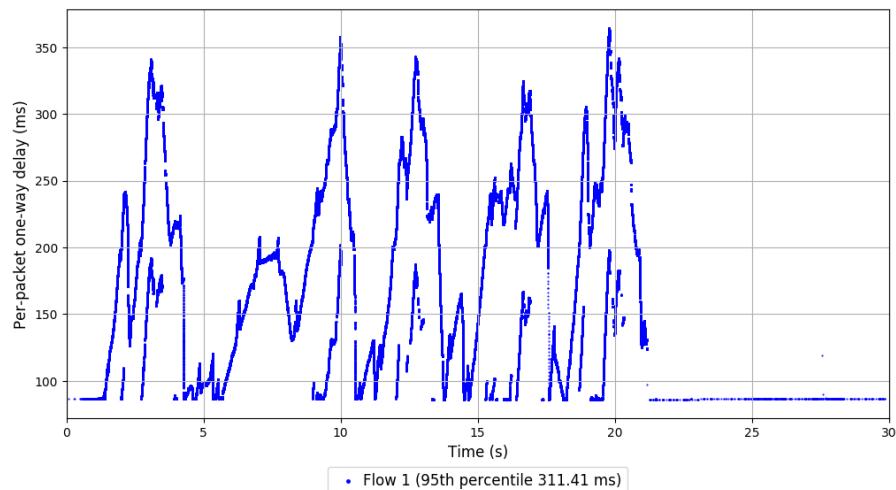
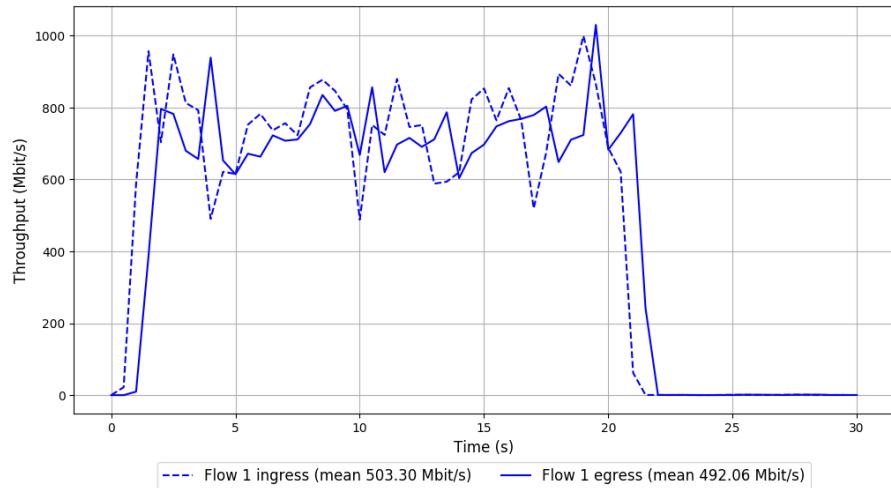


```
Run 10: Statistics of FillP
```

```
Start at: 2018-05-30 21:59:31
End at: 2018-05-30 22:00:01
Local clock offset: -0.211 ms
Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 492.06 Mbit/s
95th percentile per-packet one-way delay: 311.413 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 492.06 Mbit/s
95th percentile per-packet one-way delay: 311.413 ms
Loss rate: 2.51%
```

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

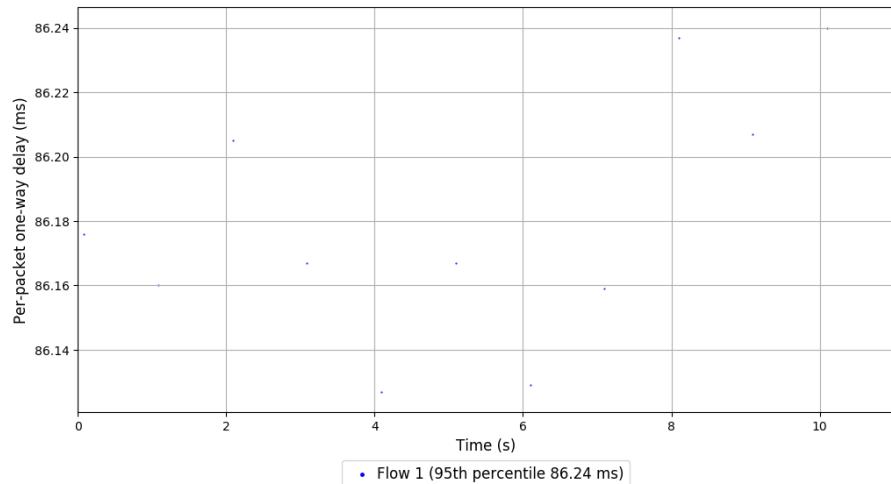
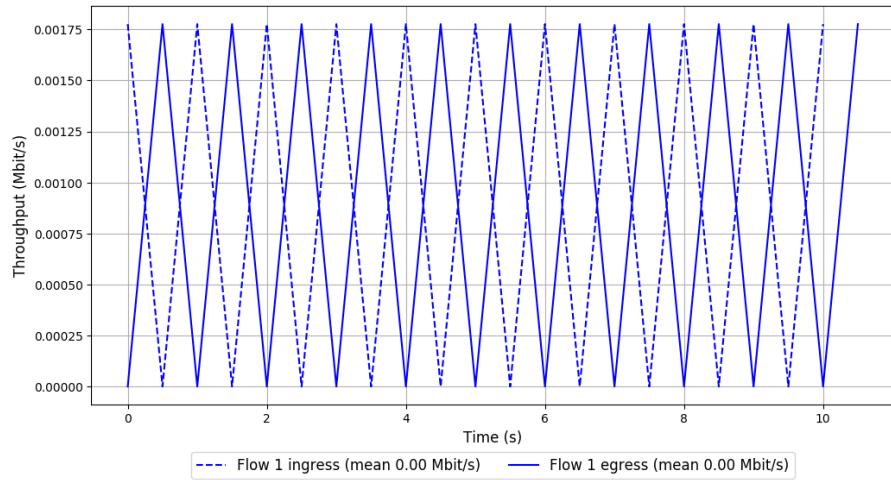
Start at: 2018-05-30 19:07:05

End at: 2018-05-30 19:07:35

Local clock offset: 4.816 ms

Remote clock offset: 0.11 ms

Run 1: Report of Indigo — Data Link

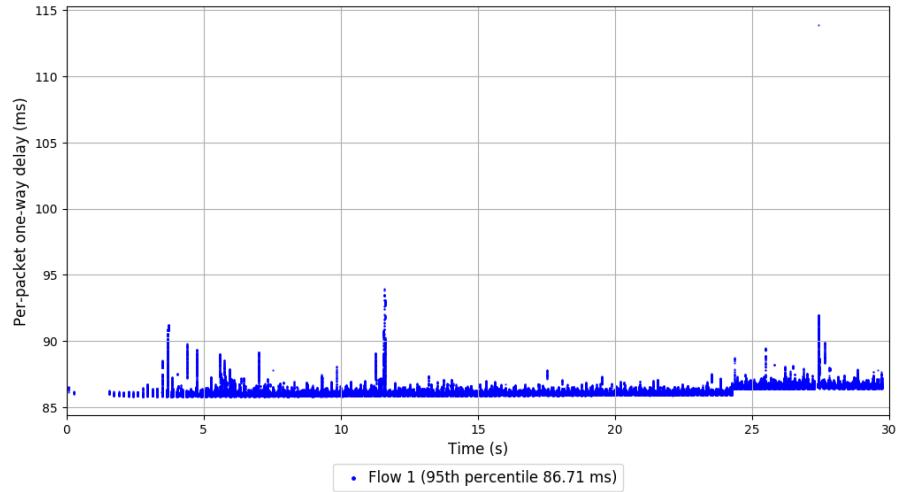
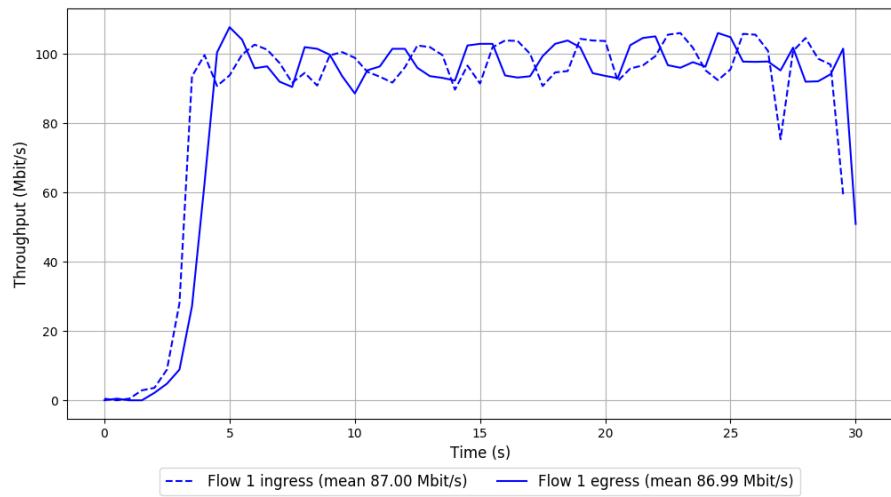


Run 2: Statistics of Indigo

```
Start at: 2018-05-30 19:27:09
End at: 2018-05-30 19:27:39
Local clock offset: 4.106 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.99 Mbit/s
95th percentile per-packet one-way delay: 86.707 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 86.99 Mbit/s
95th percentile per-packet one-way delay: 86.707 ms
Loss rate: 0.60%
```

Run 2: Report of Indigo — Data Link

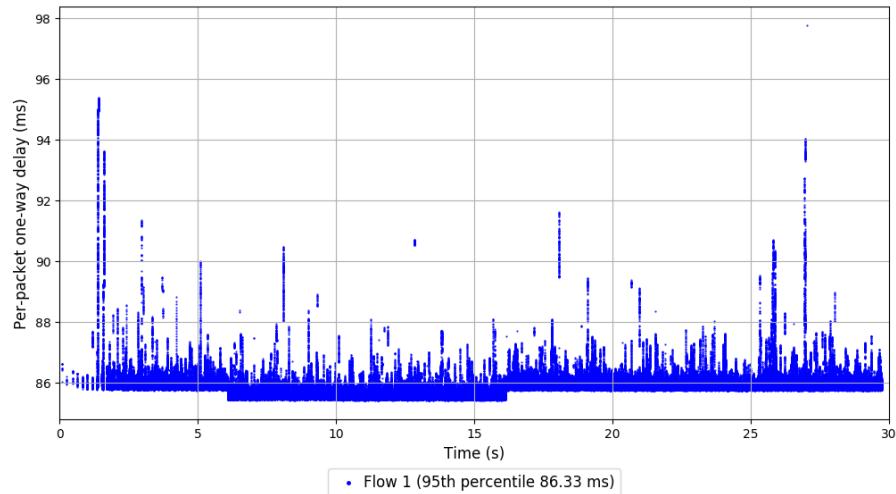
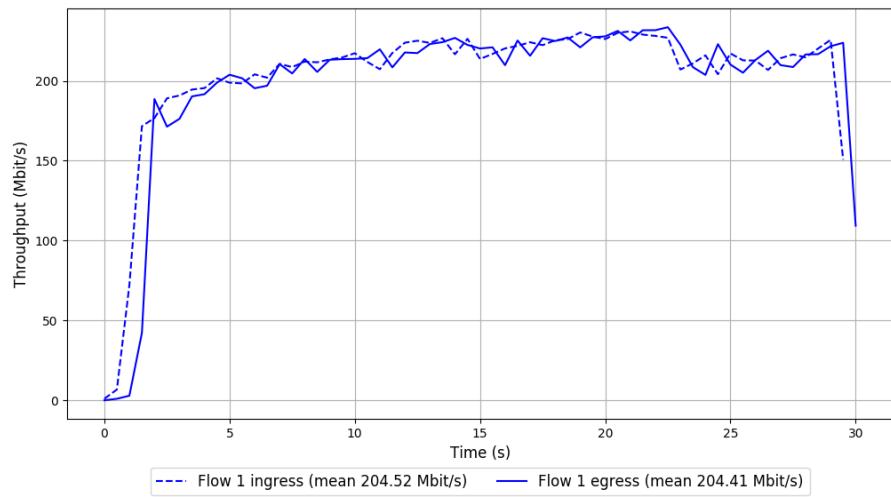


Run 3: Statistics of Indigo

```
Start at: 2018-05-30 19:47:38
End at: 2018-05-30 19:48:08
Local clock offset: 1.8 ms
Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.41 Mbit/s
95th percentile per-packet one-way delay: 86.329 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 204.41 Mbit/s
95th percentile per-packet one-way delay: 86.329 ms
Loss rate: 0.64%
```

Run 3: Report of Indigo — Data Link

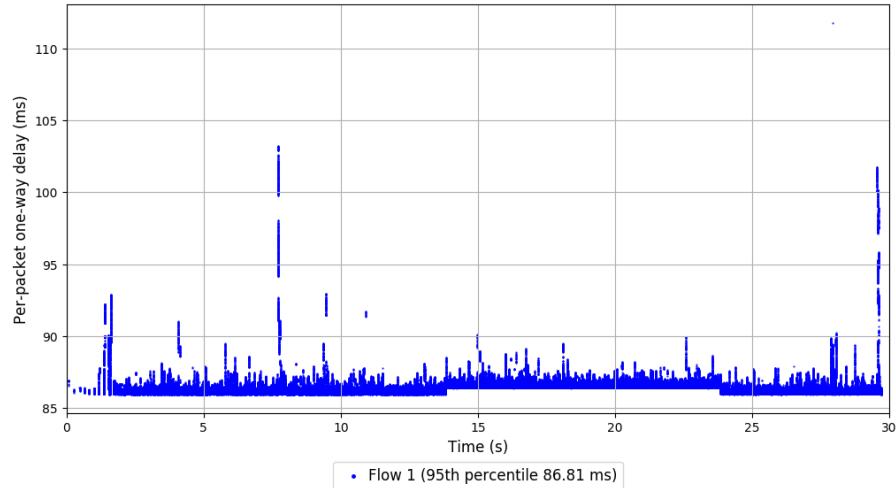
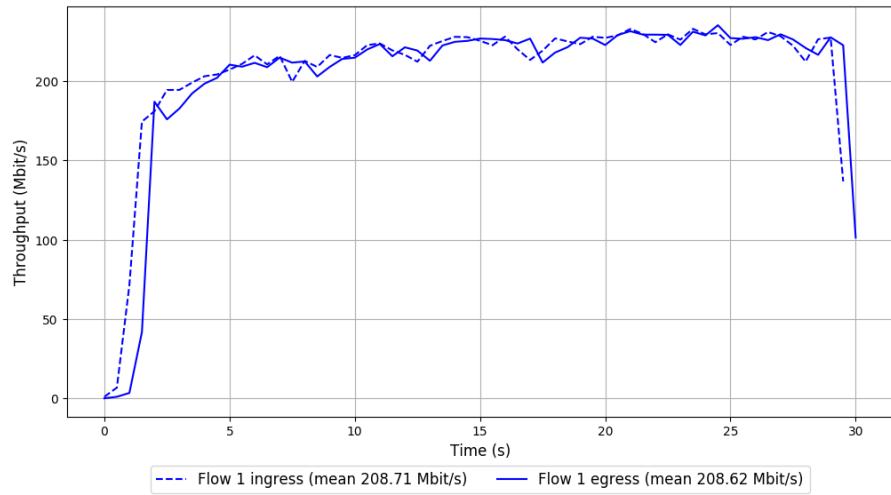


Run 4: Statistics of Indigo

```
Start at: 2018-05-30 20:08:10
End at: 2018-05-30 20:08:40
Local clock offset: 1.283 ms
Remote clock offset: 0.157 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.62 Mbit/s
95th percentile per-packet one-way delay: 86.813 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 208.62 Mbit/s
95th percentile per-packet one-way delay: 86.813 ms
Loss rate: 0.62%
```

Run 4: Report of Indigo — Data Link

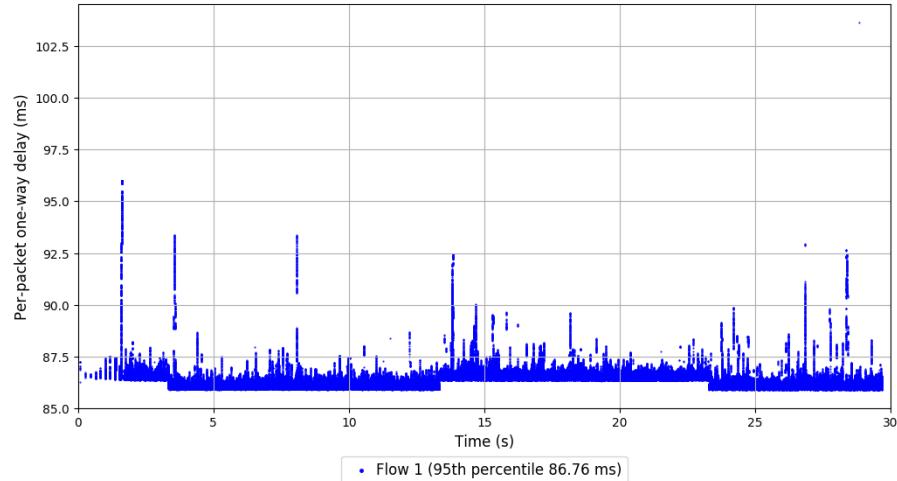
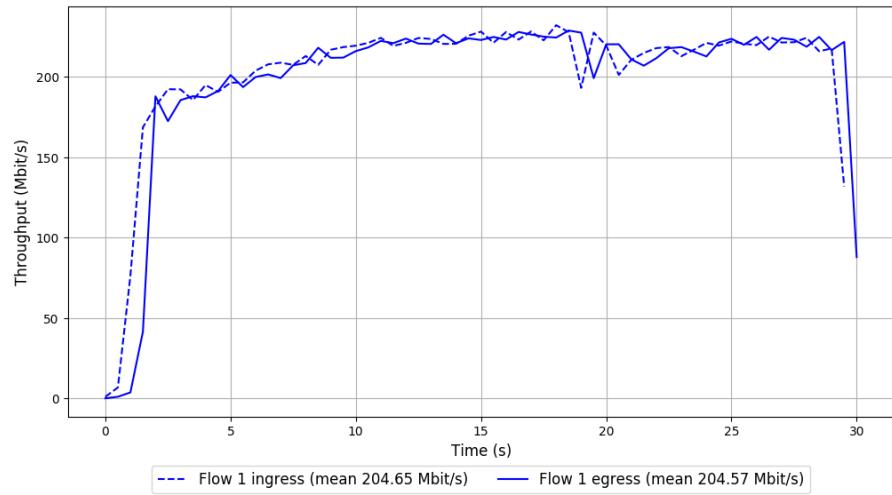


Run 5: Statistics of Indigo

```
Start at: 2018-05-30 20:28:40
End at: 2018-05-30 20:29:10
Local clock offset: 1.324 ms
Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.57 Mbit/s
95th percentile per-packet one-way delay: 86.762 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 204.57 Mbit/s
95th percentile per-packet one-way delay: 86.762 ms
Loss rate: 0.63%
```

Run 5: Report of Indigo — Data Link

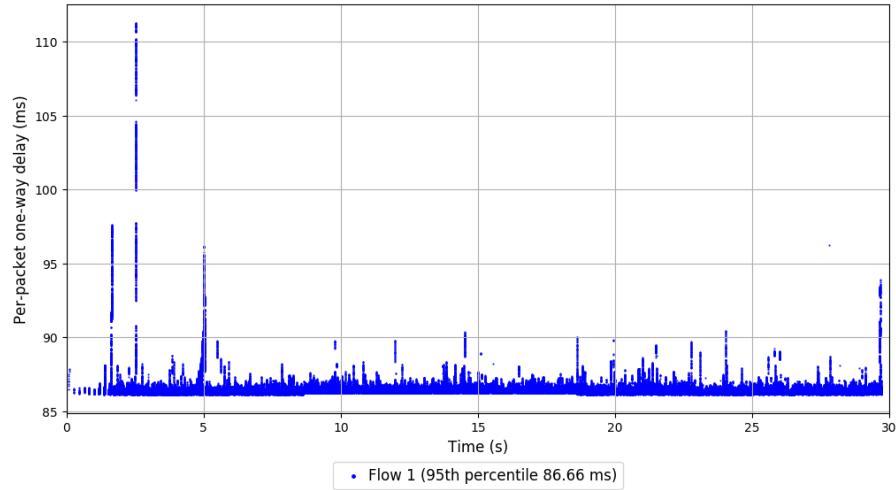
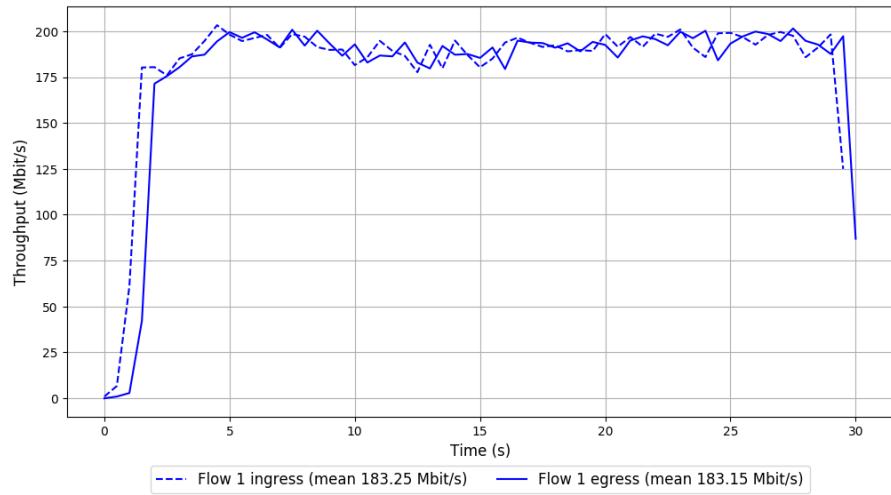


Run 6: Statistics of Indigo

```
Start at: 2018-05-30 20:49:15
End at: 2018-05-30 20:49:45
Local clock offset: 0.669 ms
Remote clock offset: 0.206 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.15 Mbit/s
95th percentile per-packet one-way delay: 86.663 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 183.15 Mbit/s
95th percentile per-packet one-way delay: 86.663 ms
Loss rate: 0.63%
```

Run 6: Report of Indigo — Data Link

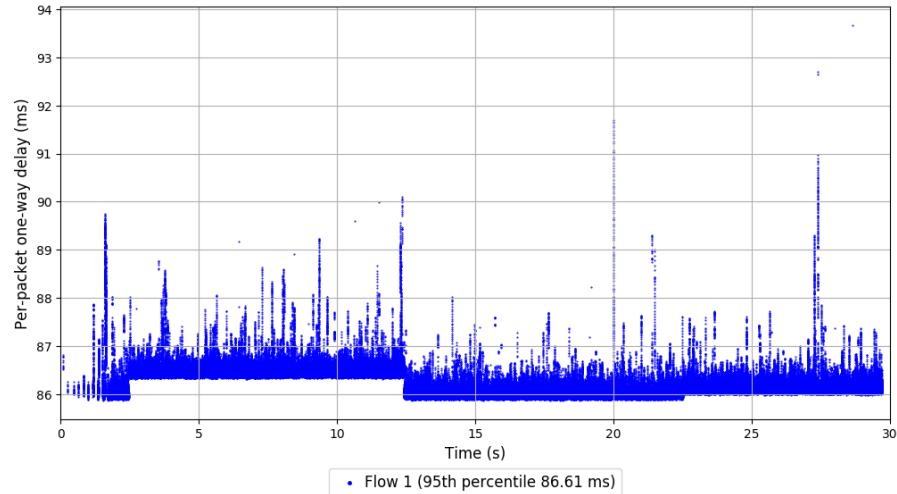
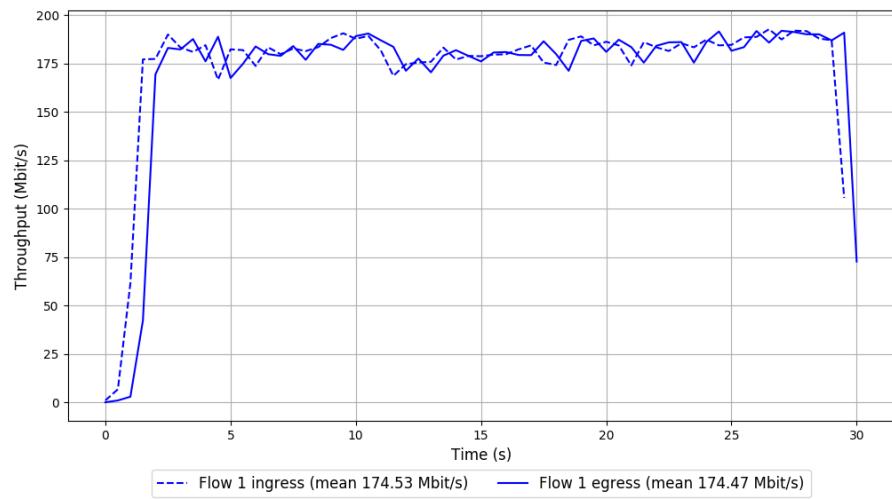


Run 7: Statistics of Indigo

```
Start at: 2018-05-30 21:09:31
End at: 2018-05-30 21:10:01
Local clock offset: 0.498 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.47 Mbit/s
95th percentile per-packet one-way delay: 86.605 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 174.47 Mbit/s
95th percentile per-packet one-way delay: 86.605 ms
Loss rate: 0.62%
```

Run 7: Report of Indigo — Data Link

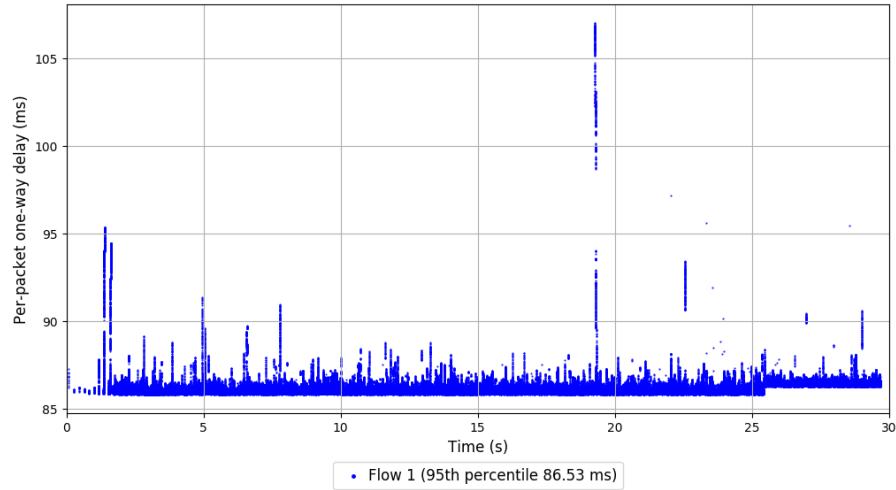
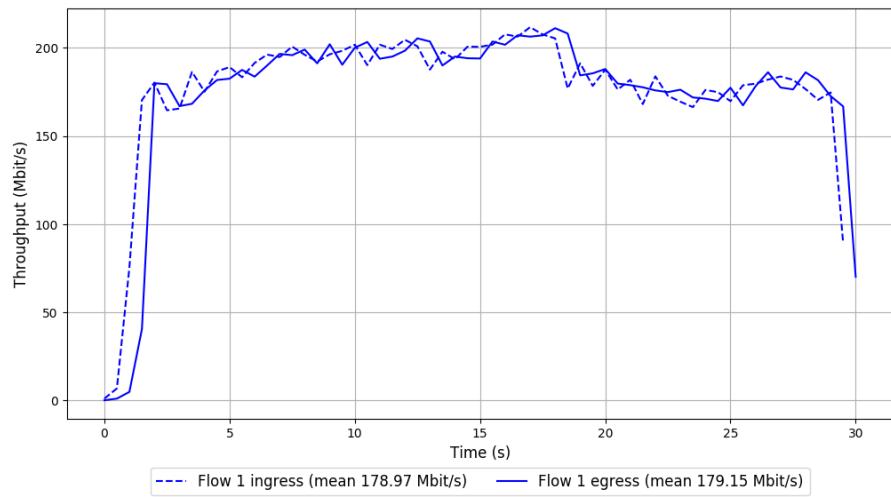


Run 8: Statistics of Indigo

```
Start at: 2018-05-30 21:29:58
End at: 2018-05-30 21:30:28
Local clock offset: 0.721 ms
Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.15 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 179.15 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.48%
```

Run 8: Report of Indigo — Data Link

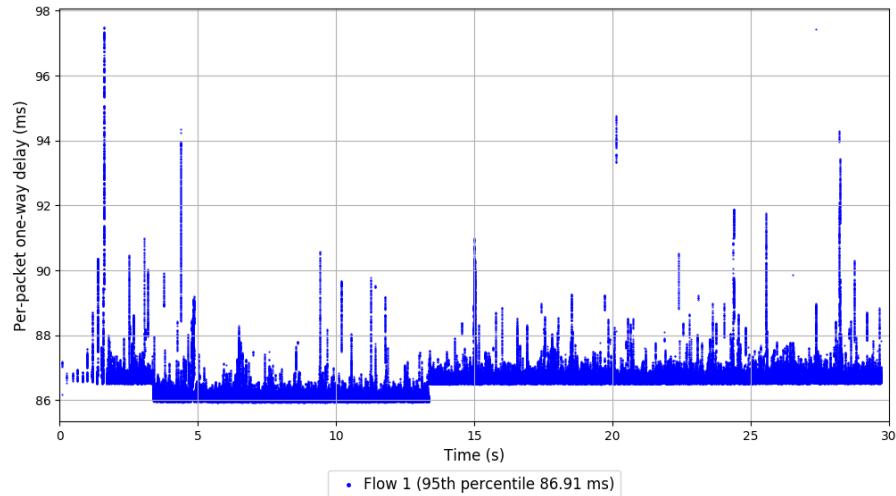
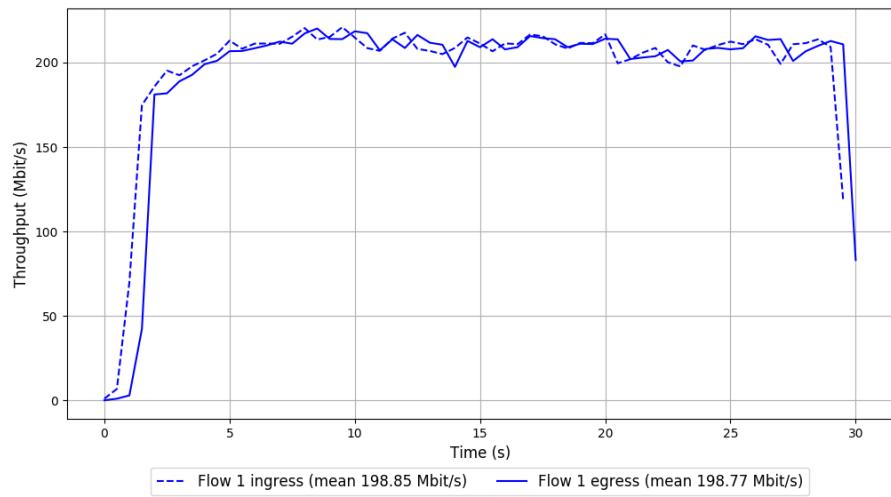


Run 9: Statistics of Indigo

```
Start at: 2018-05-30 21:50:30
End at: 2018-05-30 21:51:00
Local clock offset: 0.162 ms
Remote clock offset: 0.276 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.77 Mbit/s
95th percentile per-packet one-way delay: 86.906 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 198.77 Mbit/s
95th percentile per-packet one-way delay: 86.906 ms
Loss rate: 0.62%
```

Run 9: Report of Indigo — Data Link

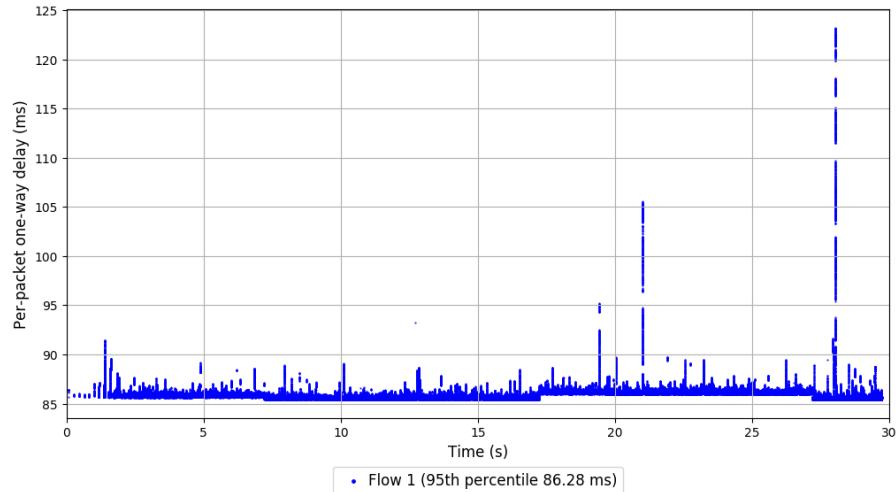
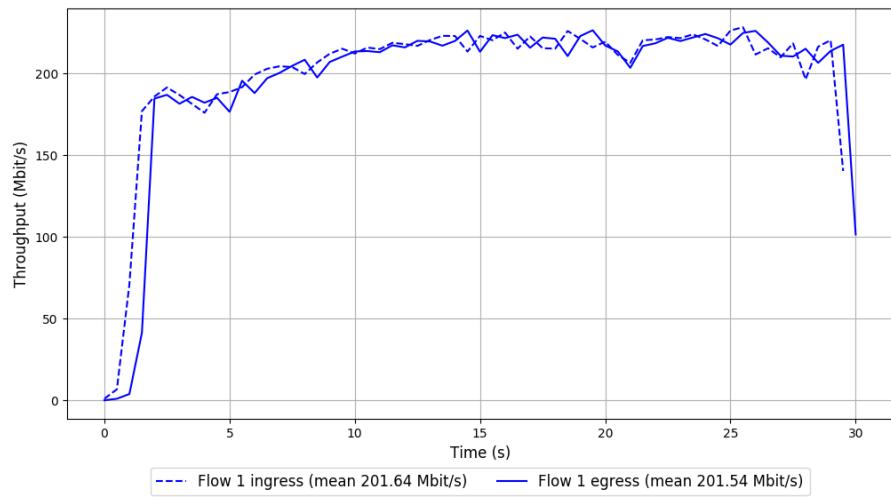


Run 10: Statistics of Indigo

```
Start at: 2018-05-30 22:10:57
End at: 2018-05-30 22:11:27
Local clock offset: -0.73 ms
Remote clock offset: 0.307 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.54 Mbit/s
95th percentile per-packet one-way delay: 86.276 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 201.54 Mbit/s
95th percentile per-packet one-way delay: 86.276 ms
Loss rate: 0.63%
```

Run 10: Report of Indigo — Data Link

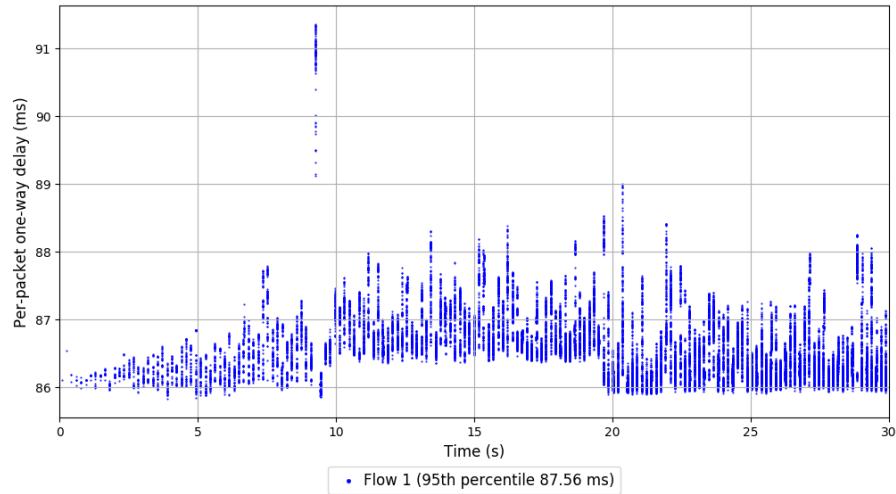
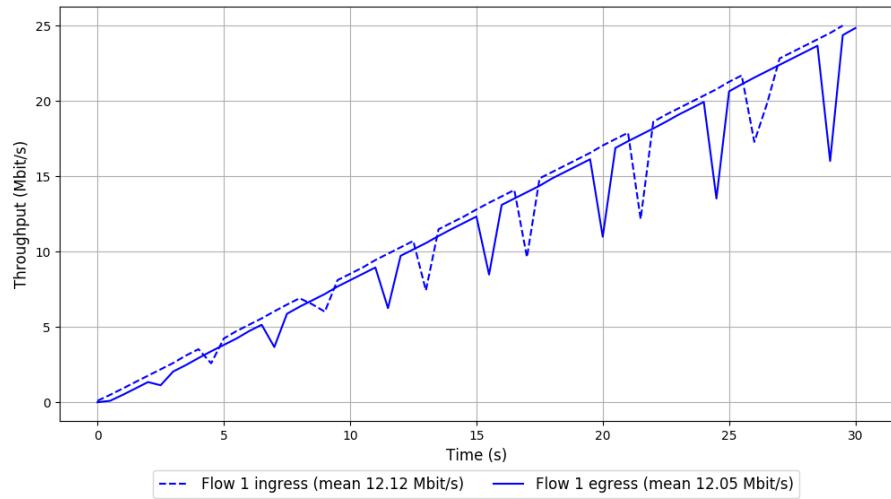


```
Run 1: Statistics of LEDBAT
```

```
Start at: 2018-05-30 18:58:24
End at: 2018-05-30 18:58:54
Local clock offset: 5.727 ms
Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 87.556 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 87.556 ms
Loss rate: 1.15%
```

Run 1: Report of LEDBAT — Data Link

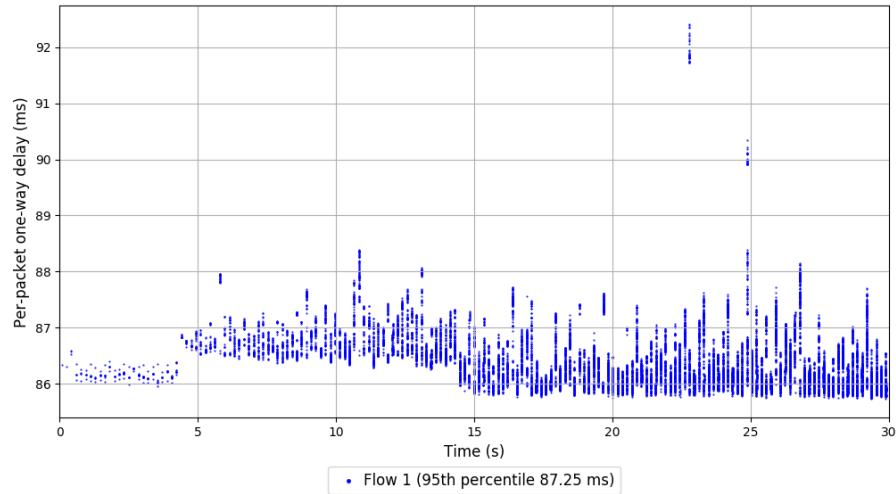
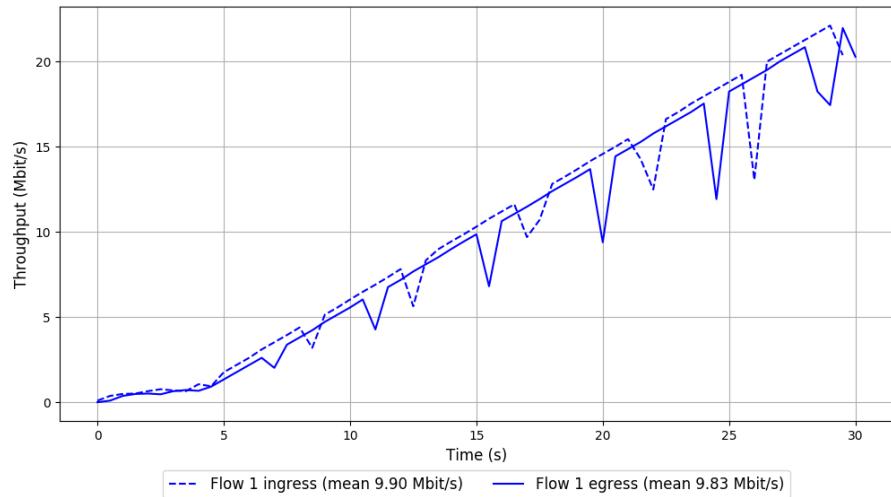


Run 2: Statistics of LEDBAT

```
Start at: 2018-05-30 19:18:30
End at: 2018-05-30 19:19:00
Local clock offset: 5.609 ms
Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.83 Mbit/s
95th percentile per-packet one-way delay: 87.249 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 9.83 Mbit/s
95th percentile per-packet one-way delay: 87.249 ms
Loss rate: 1.27%
```

Run 2: Report of LEDBAT — Data Link

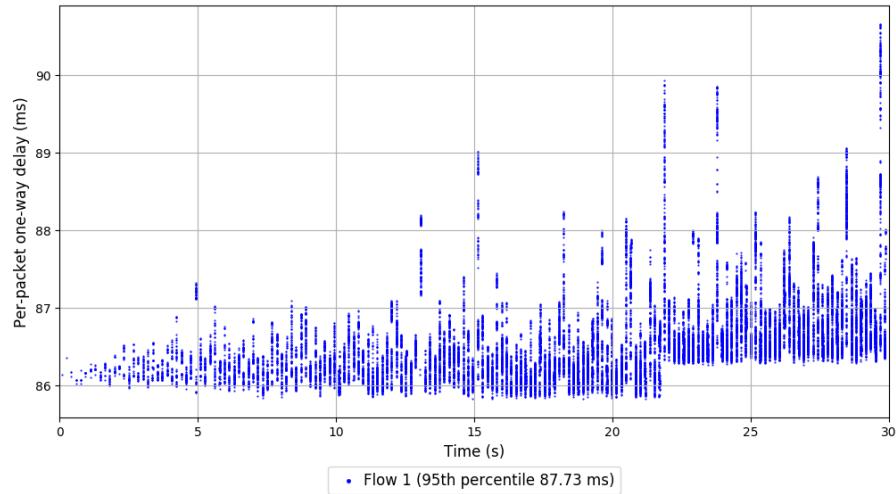
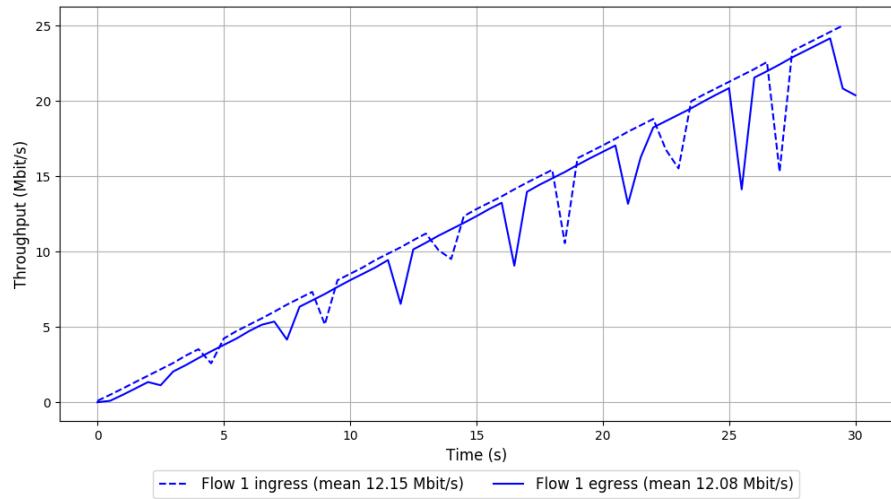


Run 3: Statistics of LEDBAT

```
Start at: 2018-05-30 19:38:52
End at: 2018-05-30 19:39:22
Local clock offset: 2.161 ms
Remote clock offset: 0.104 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 87.730 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 87.730 ms
Loss rate: 1.15%
```

Run 3: Report of LEDBAT — Data Link

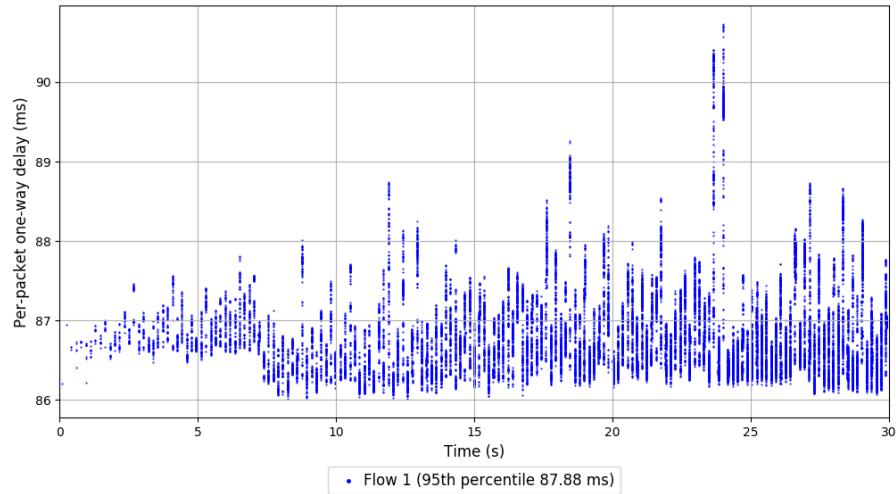
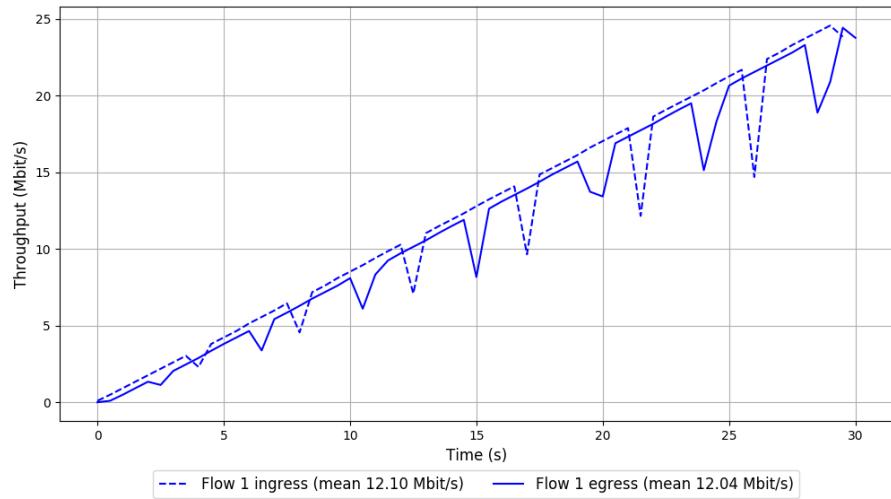


Run 4: Statistics of LEDBAT

```
Start at: 2018-05-30 19:59:27
End at: 2018-05-30 19:59:57
Local clock offset: 2.428 ms
Remote clock offset: 0.149 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 87.881 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 12.04 Mbit/s
95th percentile per-packet one-way delay: 87.881 ms
Loss rate: 1.14%
```

Run 4: Report of LEDBAT — Data Link

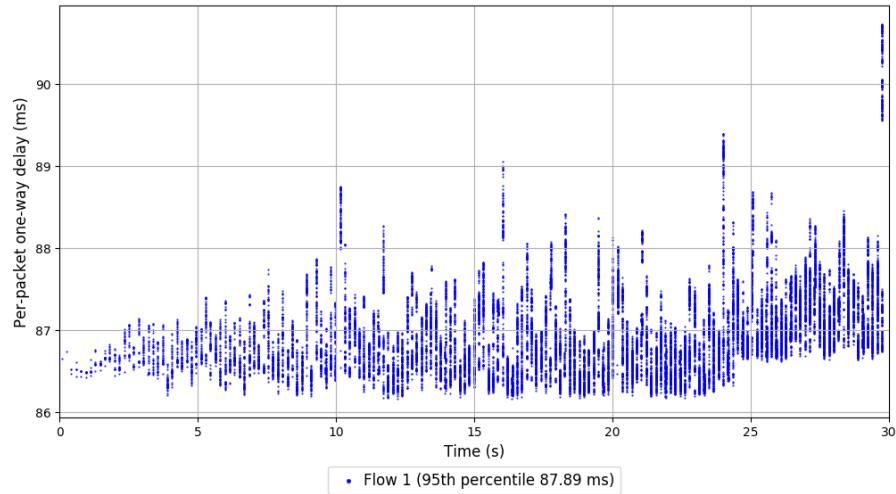
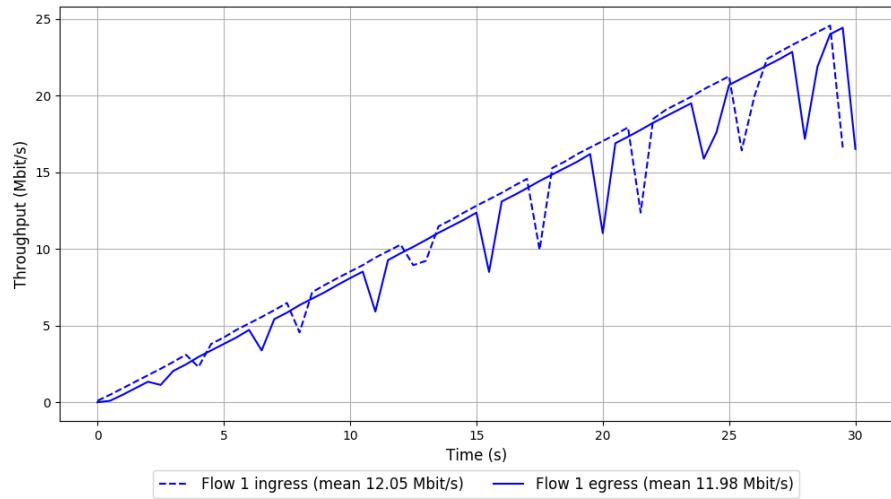


Run 5: Statistics of LEDBAT

```
Start at: 2018-05-30 20:19:59
End at: 2018-05-30 20:20:29
Local clock offset: 1.339 ms
Remote clock offset: 0.154 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 87.888 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 87.888 ms
Loss rate: 1.16%
```

Run 5: Report of LEDBAT — Data Link

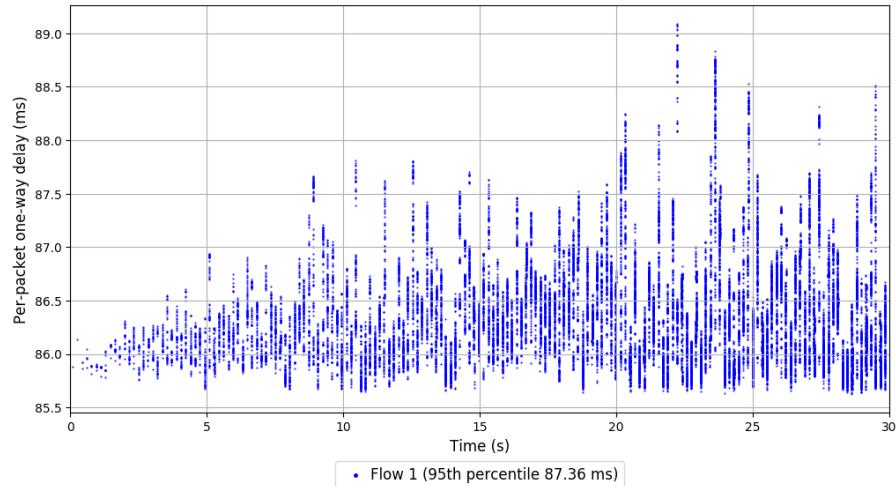
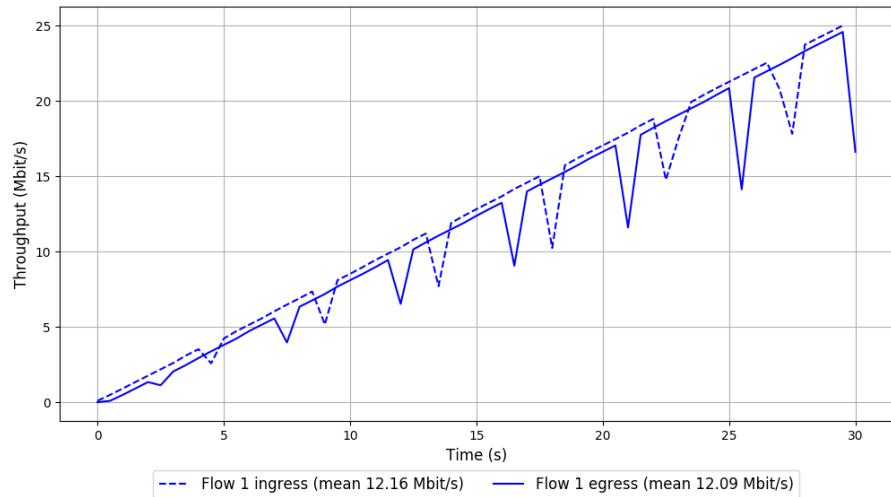


Run 6: Statistics of LEDBAT

```
Start at: 2018-05-30 20:40:30
End at: 2018-05-30 20:41:00
Local clock offset: 0.378 ms
Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 87.365 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.09 Mbit/s
95th percentile per-packet one-way delay: 87.365 ms
Loss rate: 1.15%
```

Run 6: Report of LEDBAT — Data Link

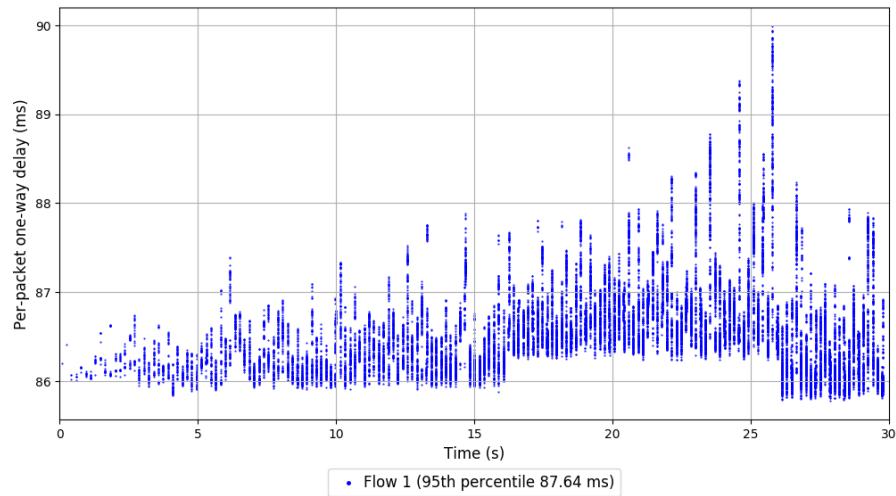
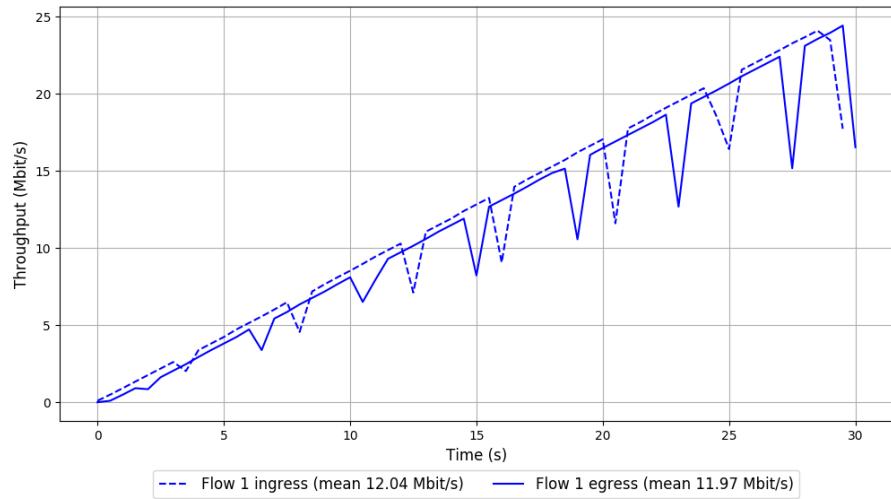


Run 7: Statistics of LEDBAT

```
Start at: 2018-05-30 21:00:48
End at: 2018-05-30 21:01:18
Local clock offset: 0.343 ms
Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 87.636 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 11.97 Mbit/s
95th percentile per-packet one-way delay: 87.636 ms
Loss rate: 1.16%
```

Run 7: Report of LEDBAT — Data Link

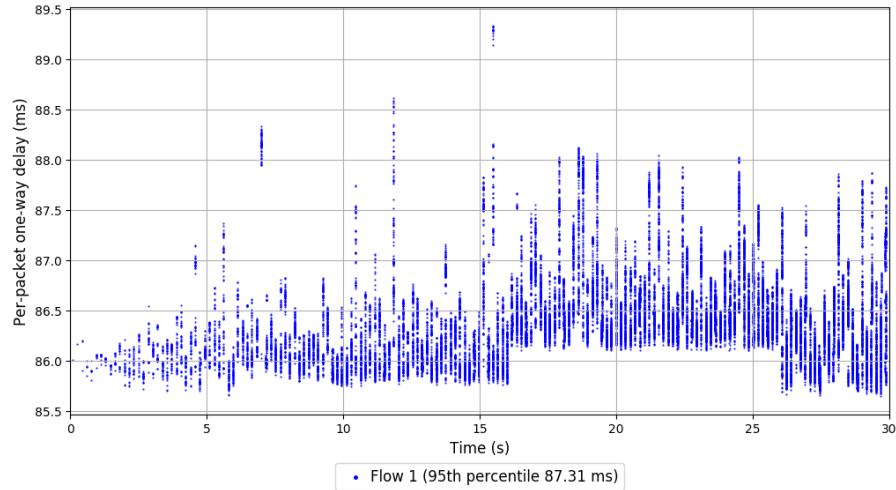
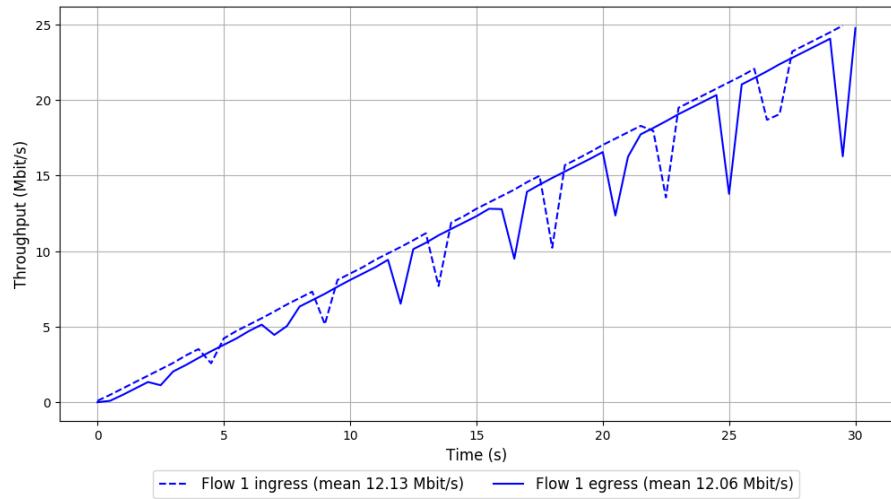


Run 8: Statistics of LEDBAT

```
Start at: 2018-05-30 21:21:18
End at: 2018-05-30 21:21:48
Local clock offset: 0.405 ms
Remote clock offset: 0.246 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 87.307 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 87.307 ms
Loss rate: 1.15%
```

Run 8: Report of LEDBAT — Data Link

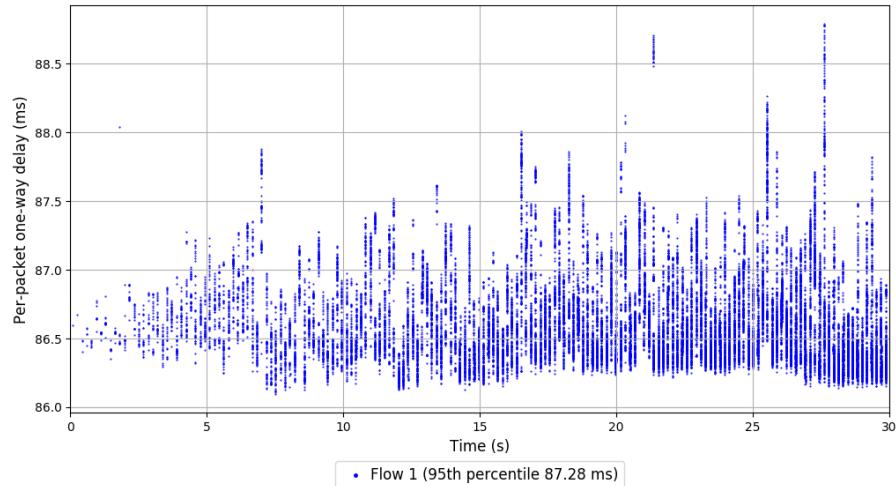
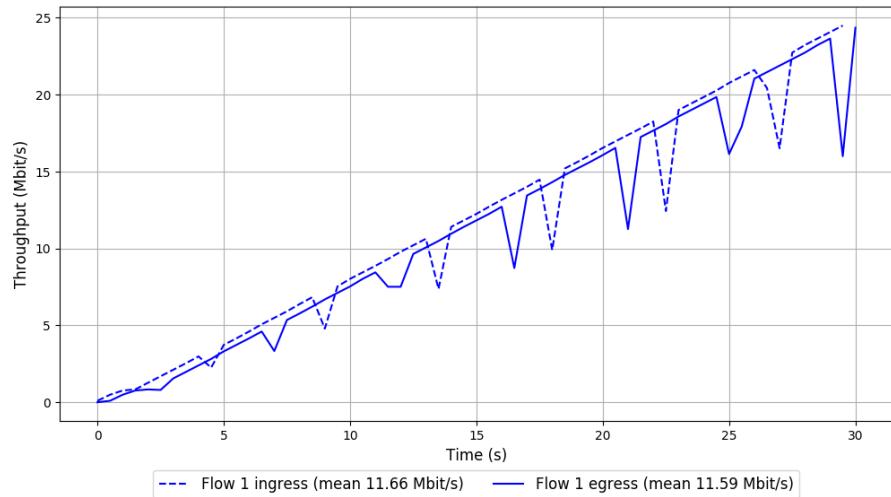


Run 9: Statistics of LEDBAT

```
Start at: 2018-05-30 21:41:47
End at: 2018-05-30 21:42:17
Local clock offset: 0.823 ms
Remote clock offset: 0.259 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 87.285 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 11.59 Mbit/s
95th percentile per-packet one-way delay: 87.285 ms
Loss rate: 1.17%
```

Run 9: Report of LEDBAT — Data Link

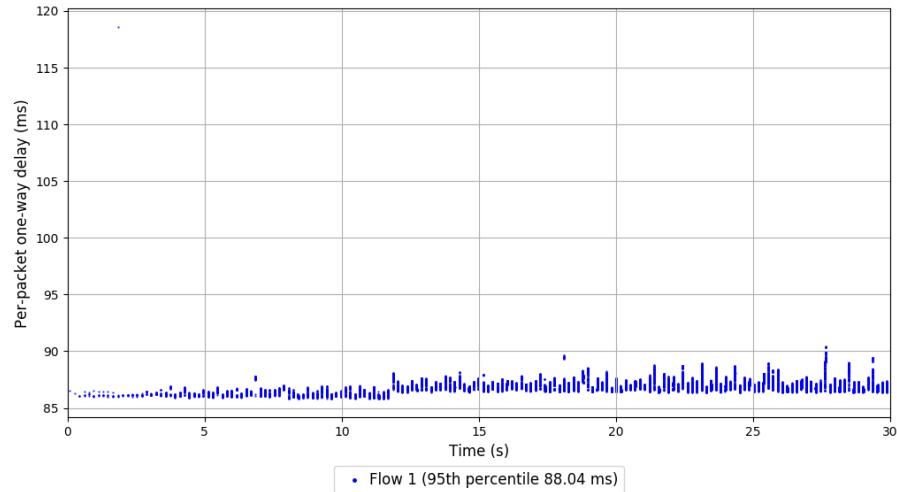
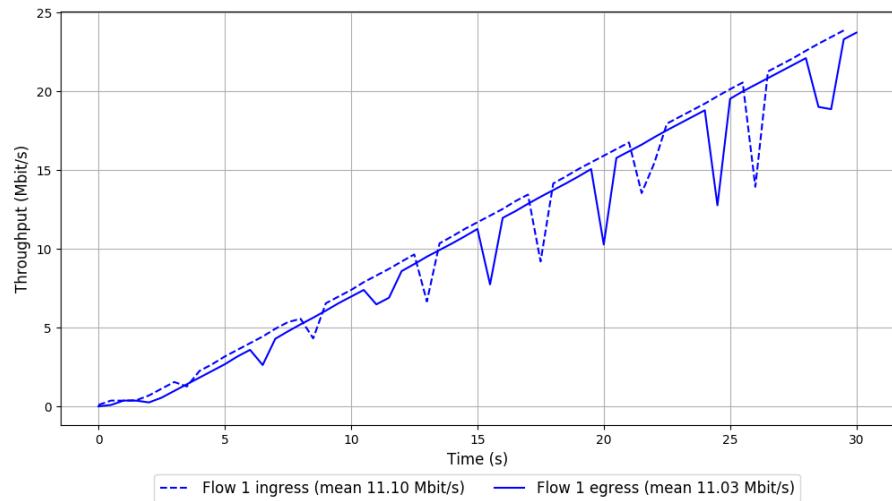


Run 10: Statistics of LEDBAT

```
Start at: 2018-05-30 22:02:12
End at: 2018-05-30 22:02:42
Local clock offset: -0.26 ms
Remote clock offset: 0.299 ms

# Below is generated by plot.py at 2018-05-30 22:55:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 88.037 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 88.037 ms
Loss rate: 1.20%
```

Run 10: Report of LEDBAT — Data Link

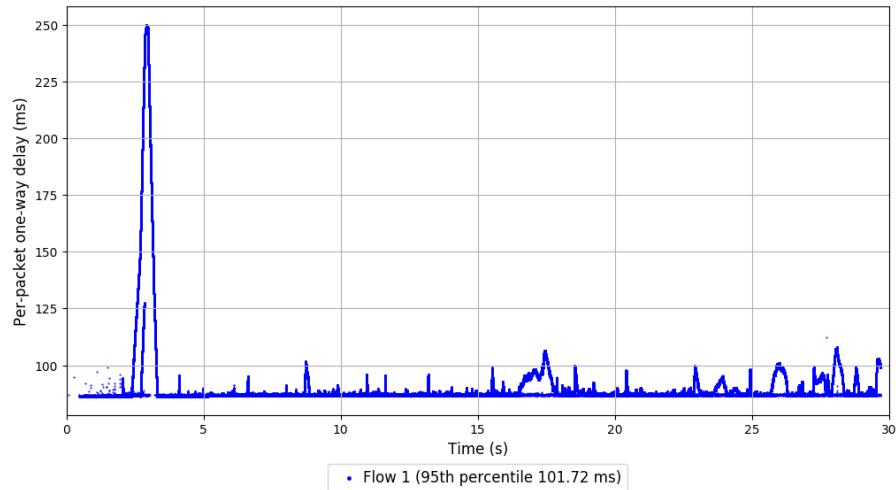
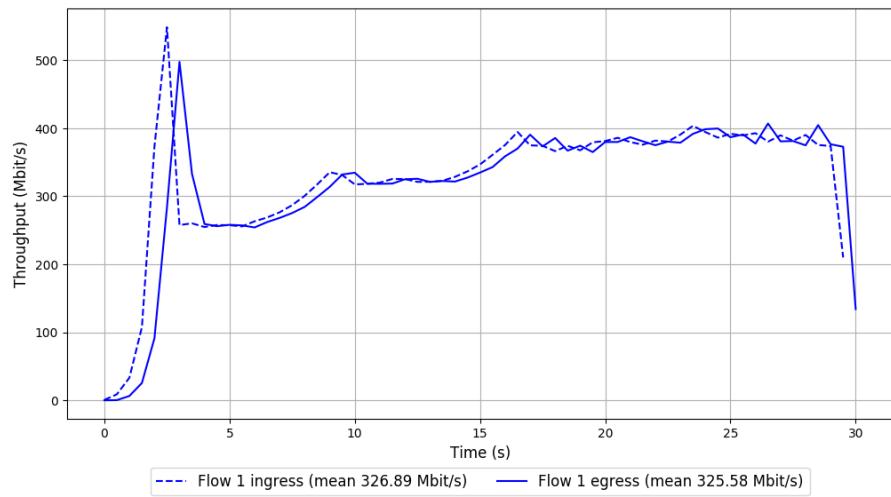


Run 1: Statistics of PCC-Allegro

```
Start at: 2018-05-30 19:02:09
End at: 2018-05-30 19:02:39
Local clock offset: 5.373 ms
Remote clock offset: 0.114 ms

# Below is generated by plot.py at 2018-05-30 22:57:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.58 Mbit/s
95th percentile per-packet one-way delay: 101.723 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 325.58 Mbit/s
95th percentile per-packet one-way delay: 101.723 ms
Loss rate: 0.98%
```

Run 1: Report of PCC-Allegro — Data Link

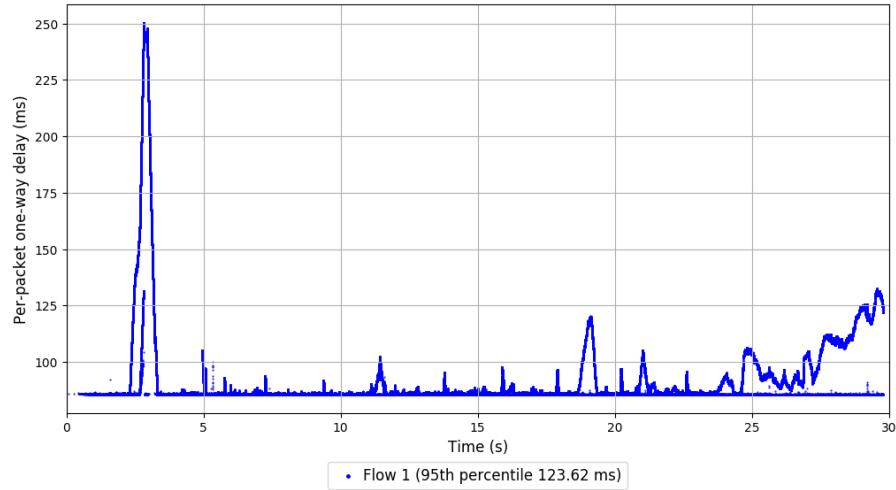
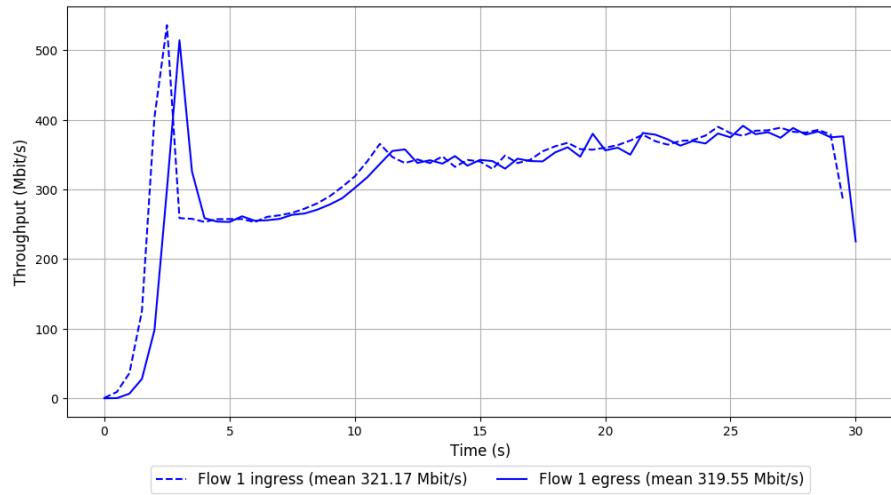


Run 2: Statistics of PCC-Allegro

```
Start at: 2018-05-30 19:22:13
End at: 2018-05-30 19:22:43
Local clock offset: 5.912 ms
Remote clock offset: 0.11 ms

# Below is generated by plot.py at 2018-05-30 22:57:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.55 Mbit/s
95th percentile per-packet one-way delay: 123.617 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 319.55 Mbit/s
95th percentile per-packet one-way delay: 123.617 ms
Loss rate: 1.08%
```

Run 2: Report of PCC-Allegro — Data Link

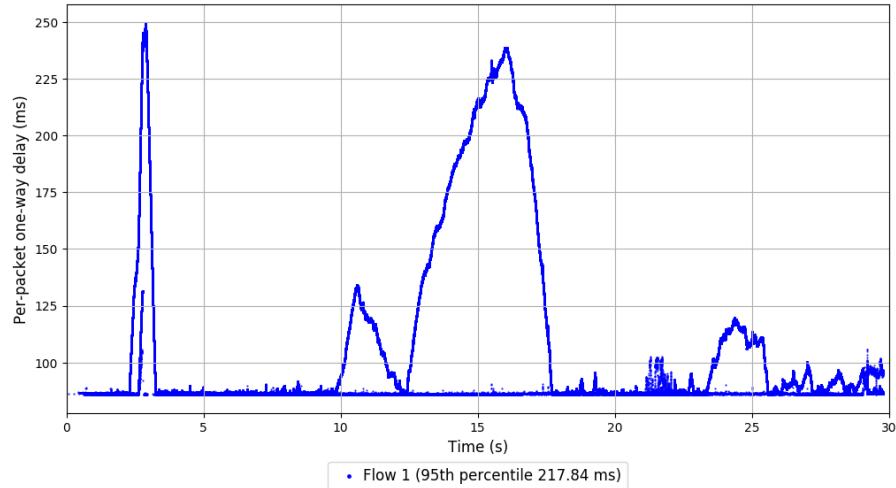
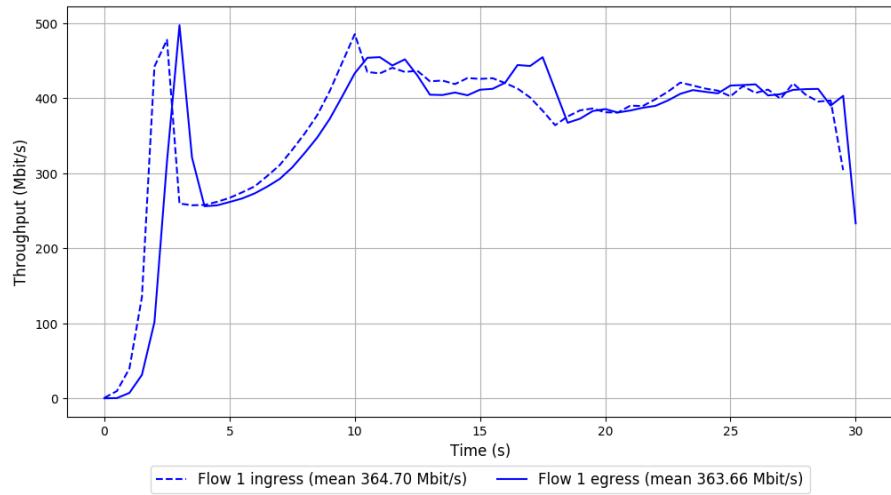


Run 3: Statistics of PCC-Allegro

```
Start at: 2018-05-30 19:42:37
End at: 2018-05-30 19:43:07
Local clock offset: 2.171 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-05-30 22:59:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.66 Mbit/s
95th percentile per-packet one-way delay: 217.836 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 363.66 Mbit/s
95th percentile per-packet one-way delay: 217.836 ms
Loss rate: 0.86%
```

Run 3: Report of PCC-Allegro — Data Link

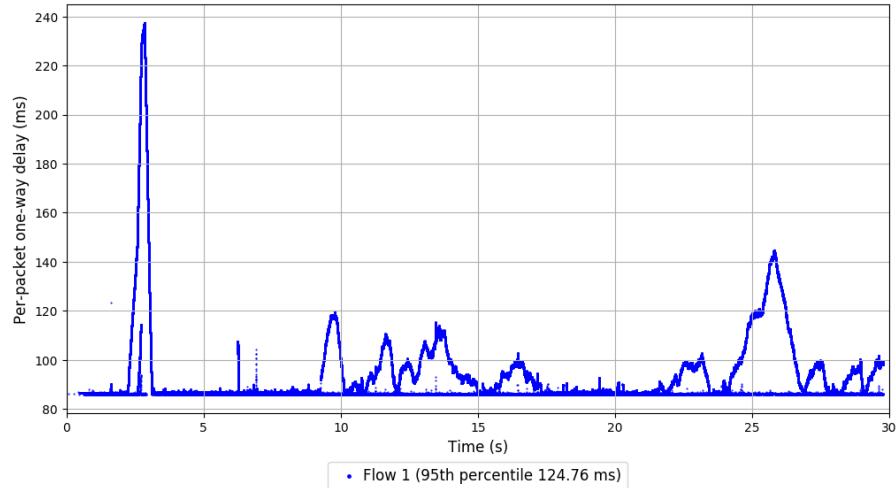
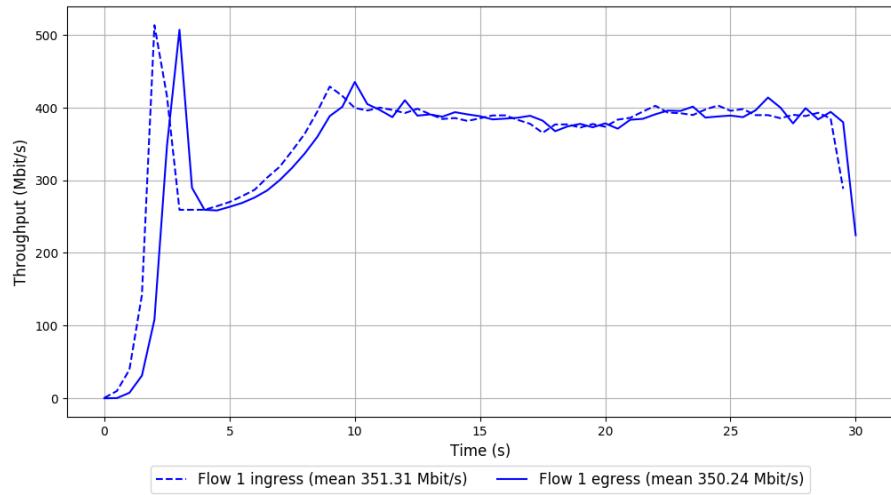


Run 4: Statistics of PCC-Allegro

```
Start at: 2018-05-30 20:03:11
End at: 2018-05-30 20:03:41
Local clock offset: 1.534 ms
Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2018-05-30 22:59:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.24 Mbit/s
95th percentile per-packet one-way delay: 124.758 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 350.24 Mbit/s
95th percentile per-packet one-way delay: 124.758 ms
Loss rate: 0.88%
```

Run 4: Report of PCC-Allegro — Data Link

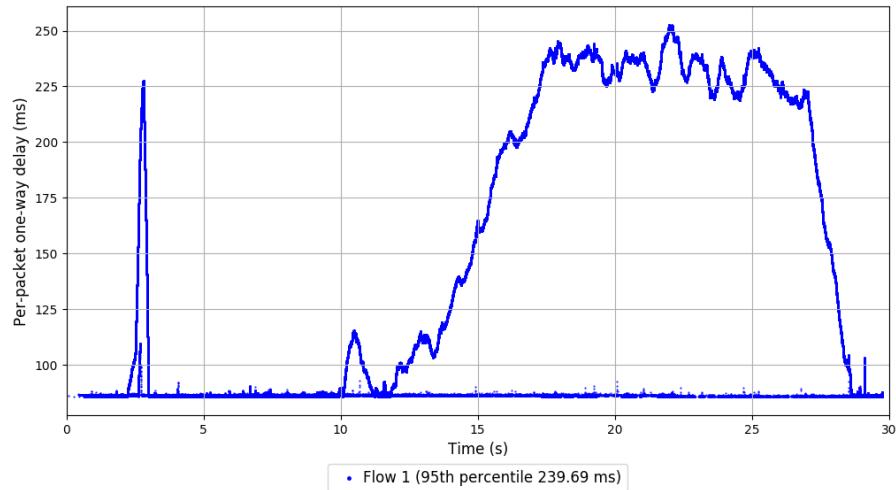
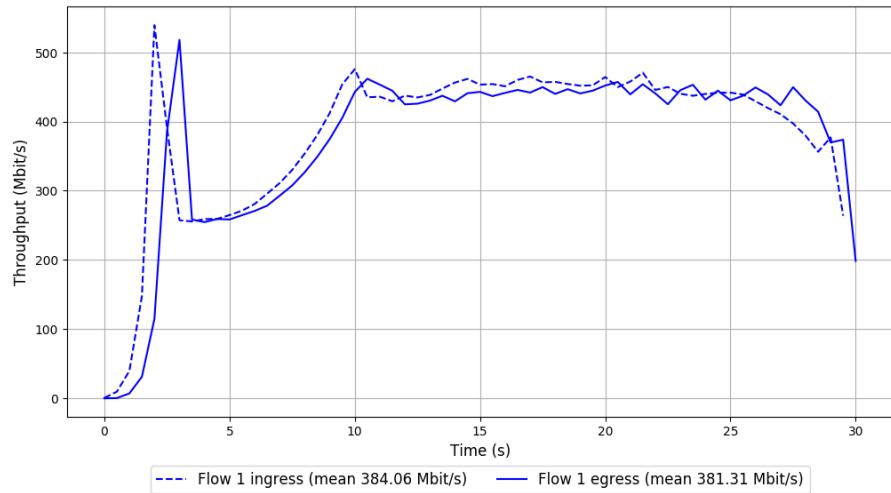


Run 5: Statistics of PCC-Allegro

```
Start at: 2018-05-30 20:23:42
End at: 2018-05-30 20:24:12
Local clock offset: 0.871 ms
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-05-30 23:00:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 381.31 Mbit/s
95th percentile per-packet one-way delay: 239.691 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 381.31 Mbit/s
95th percentile per-packet one-way delay: 239.691 ms
Loss rate: 1.29%
```

Run 5: Report of PCC-Allegro — Data Link

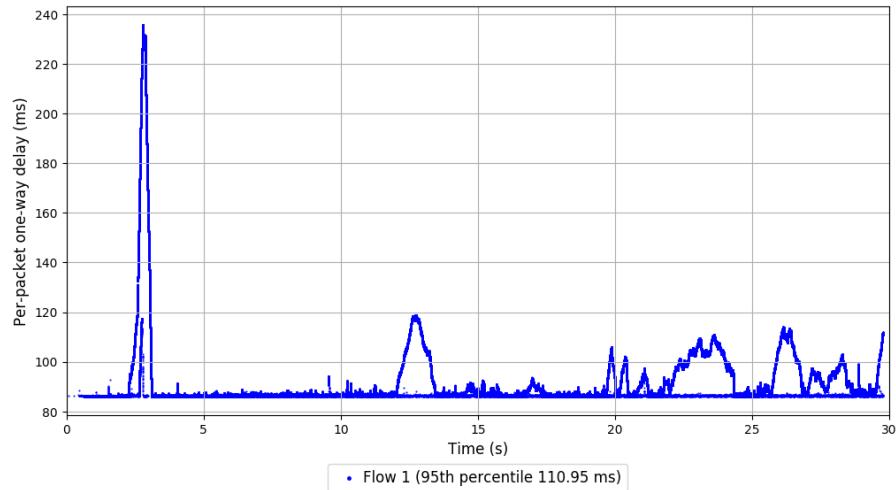
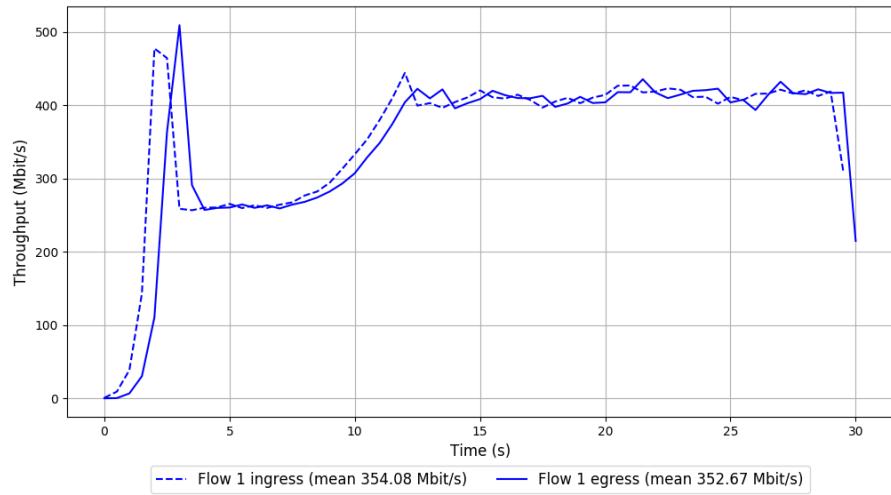


Run 6: Statistics of PCC-Allegro

```
Start at: 2018-05-30 20:44:18
End at: 2018-05-30 20:44:48
Local clock offset: 0.457 ms
Remote clock offset: 0.124 ms

# Below is generated by plot.py at 2018-05-30 23:00:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.67 Mbit/s
95th percentile per-packet one-way delay: 110.950 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 352.67 Mbit/s
95th percentile per-packet one-way delay: 110.950 ms
Loss rate: 0.97%
```

Run 6: Report of PCC-Allegro — Data Link

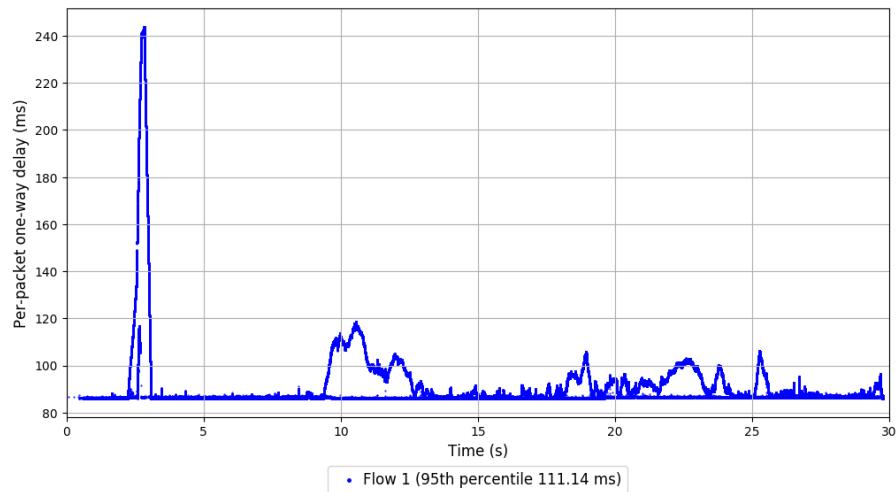
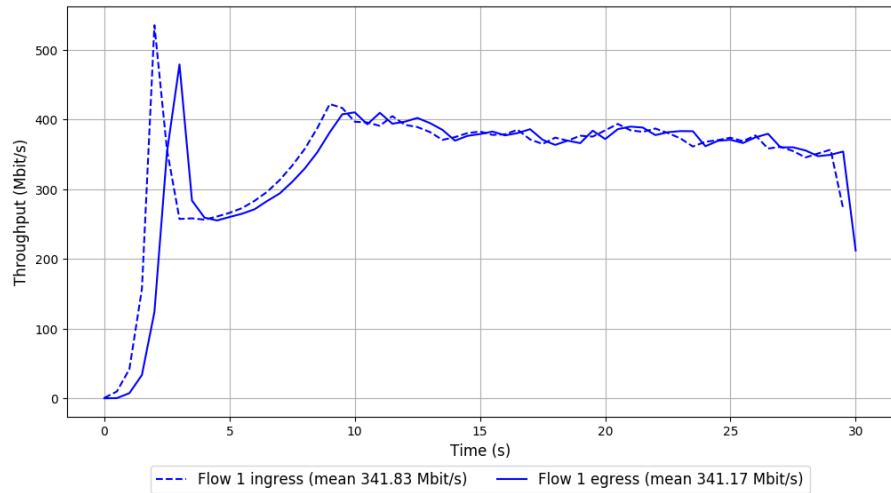


Run 7: Statistics of PCC-Allegro

```
Start at: 2018-05-30 21:04:34
End at: 2018-05-30 21:05:04
Local clock offset: 0.477 ms
Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2018-05-30 23:00:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.17 Mbit/s
95th percentile per-packet one-way delay: 111.141 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 341.17 Mbit/s
95th percentile per-packet one-way delay: 111.141 ms
Loss rate: 0.77%
```

Run 7: Report of PCC-Allegro — Data Link

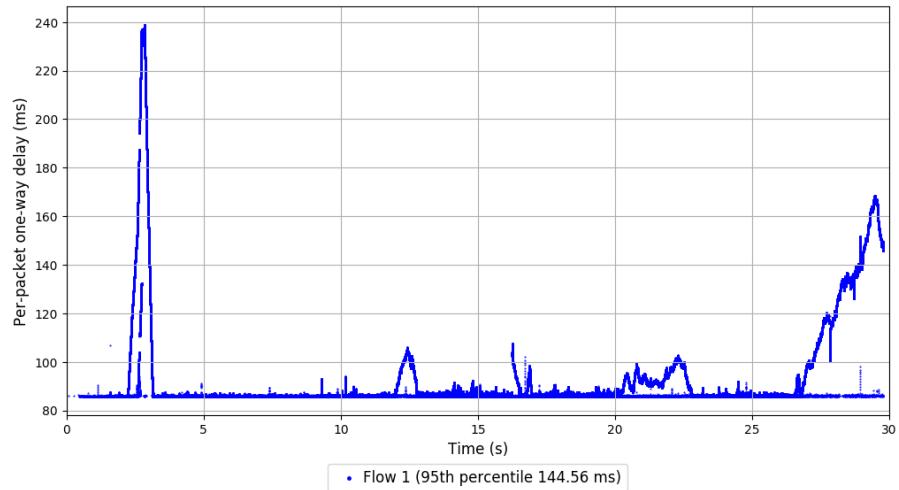
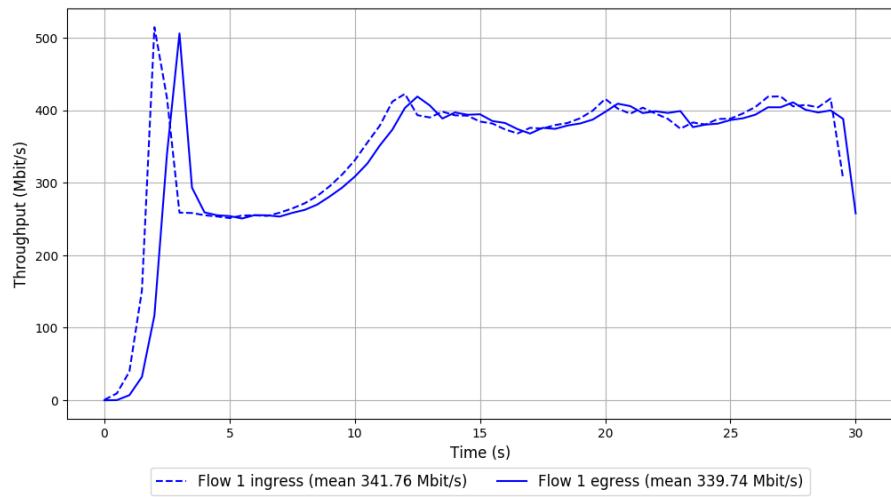


Run 8: Statistics of PCC-Allegro

```
Start at: 2018-05-30 21:25:01
End at: 2018-05-30 21:25:31
Local clock offset: 0.417 ms
Remote clock offset: 0.212 ms

# Below is generated by plot.py at 2018-05-30 23:01:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.74 Mbit/s
95th percentile per-packet one-way delay: 144.565 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 339.74 Mbit/s
95th percentile per-packet one-way delay: 144.565 ms
Loss rate: 1.17%
```

Run 8: Report of PCC-Allegro — Data Link

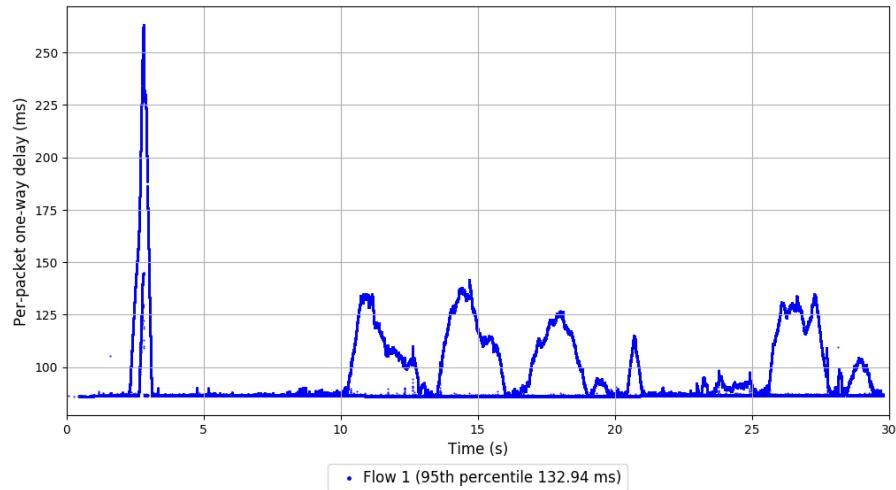
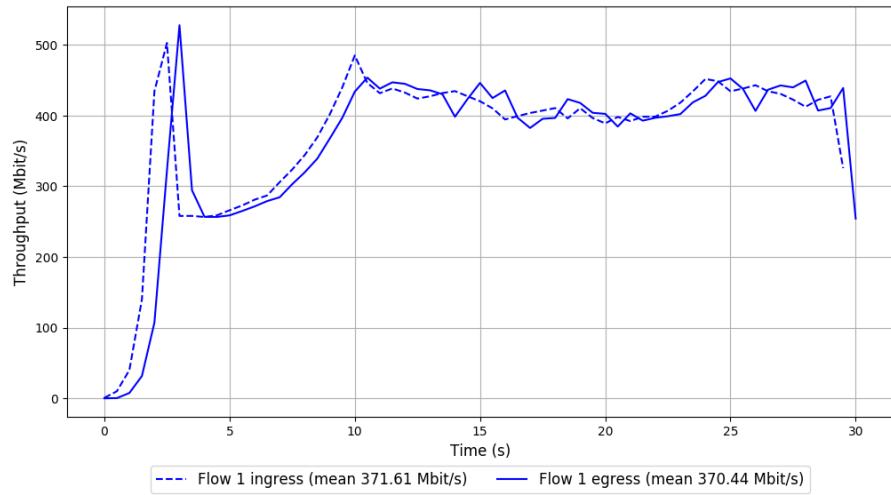


Run 9: Statistics of PCC-Allegro

```
Start at: 2018-05-30 21:45:33
End at: 2018-05-30 21:46:03
Local clock offset: 0.321 ms
Remote clock offset: 0.332 ms

# Below is generated by plot.py at 2018-05-30 23:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 370.44 Mbit/s
95th percentile per-packet one-way delay: 132.942 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 370.44 Mbit/s
95th percentile per-packet one-way delay: 132.942 ms
Loss rate: 0.89%
```

Run 9: Report of PCC-Allegro — Data Link

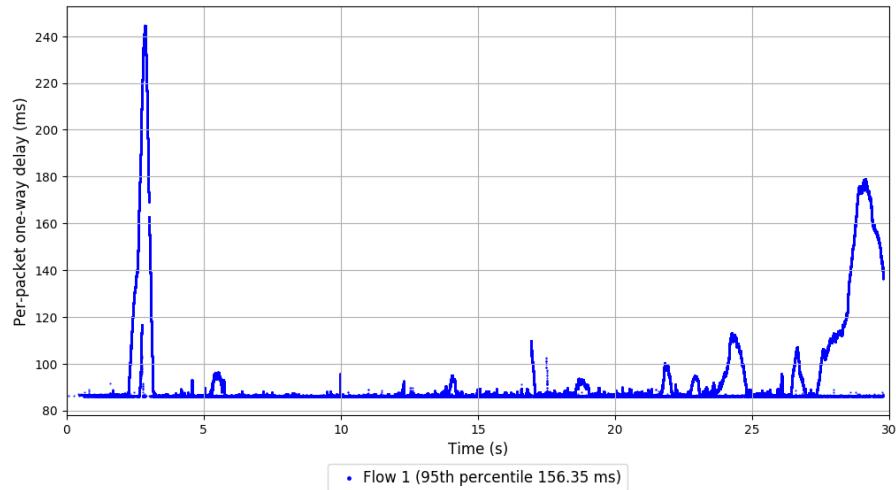
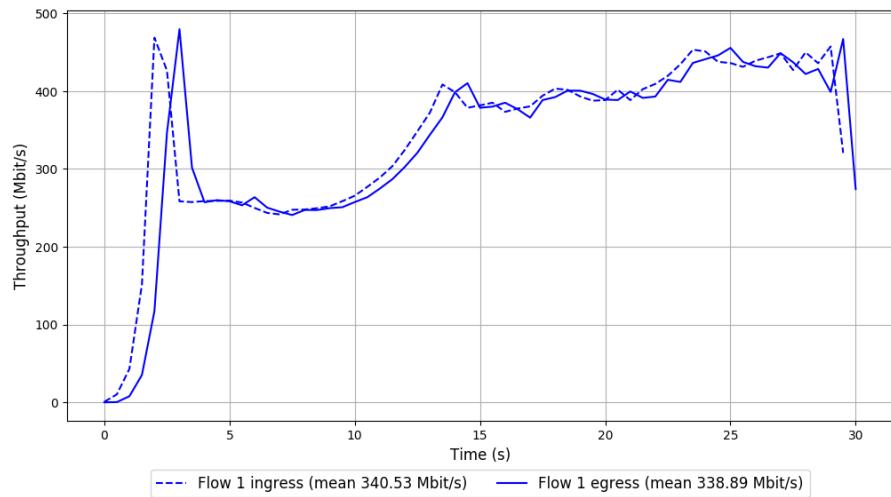


Run 10: Statistics of PCC-Allegro

```
Start at: 2018-05-30 22:06:01
End at: 2018-05-30 22:06:31
Local clock offset: -0.249 ms
Remote clock offset: 0.313 ms

# Below is generated by plot.py at 2018-05-30 23:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.89 Mbit/s
95th percentile per-packet one-way delay: 156.350 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 338.89 Mbit/s
95th percentile per-packet one-way delay: 156.350 ms
Loss rate: 1.06%
```

Run 10: Report of PCC-Allegro — Data Link

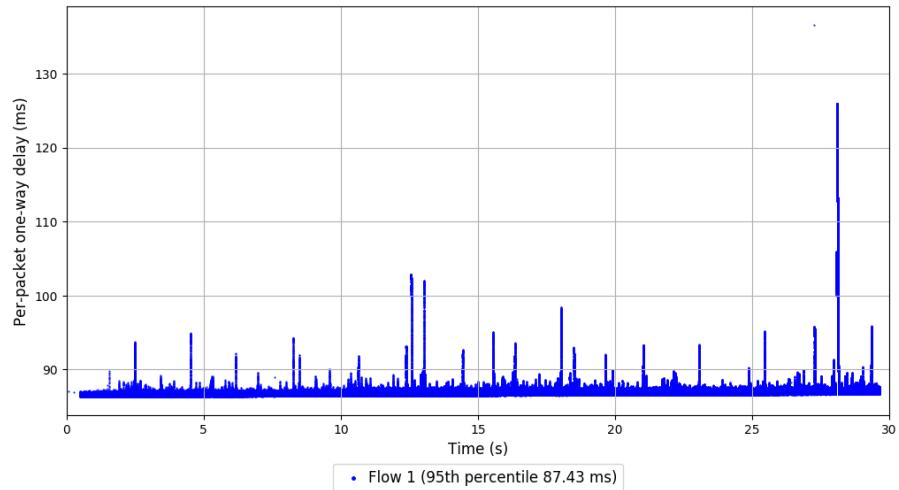
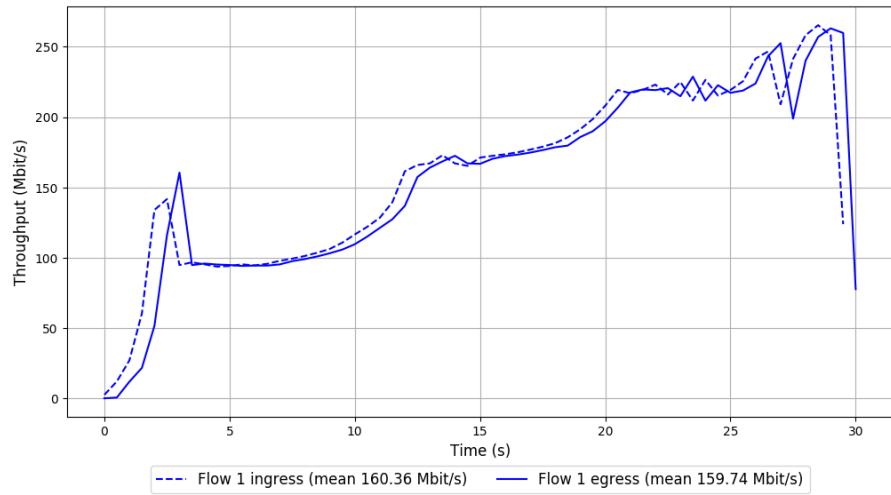


```
Run 1: Statistics of PCC-Expr
```

```
Start at: 2018-05-30 18:53:05
End at: 2018-05-30 18:53:35
Local clock offset: 8.955 ms
Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2018-05-30 23:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.74 Mbit/s
95th percentile per-packet one-way delay: 87.431 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 159.74 Mbit/s
95th percentile per-packet one-way delay: 87.431 ms
Loss rate: 0.97%
```

Run 1: Report of PCC-Expr — Data Link

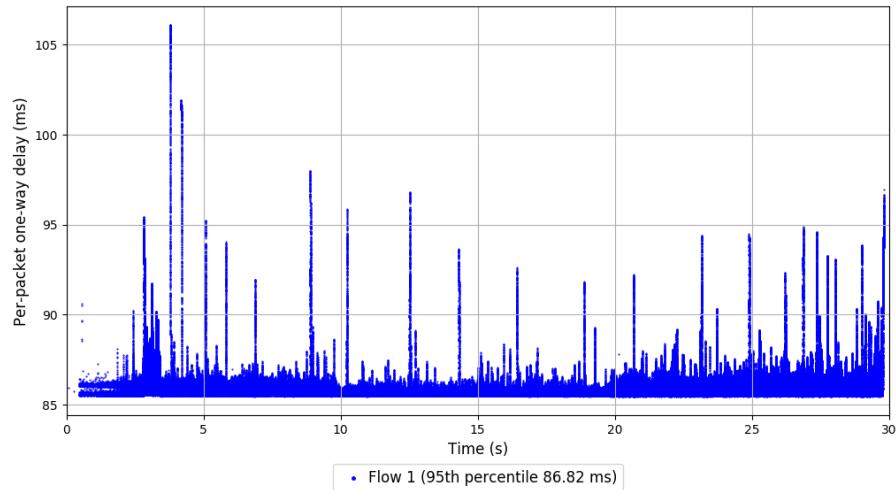
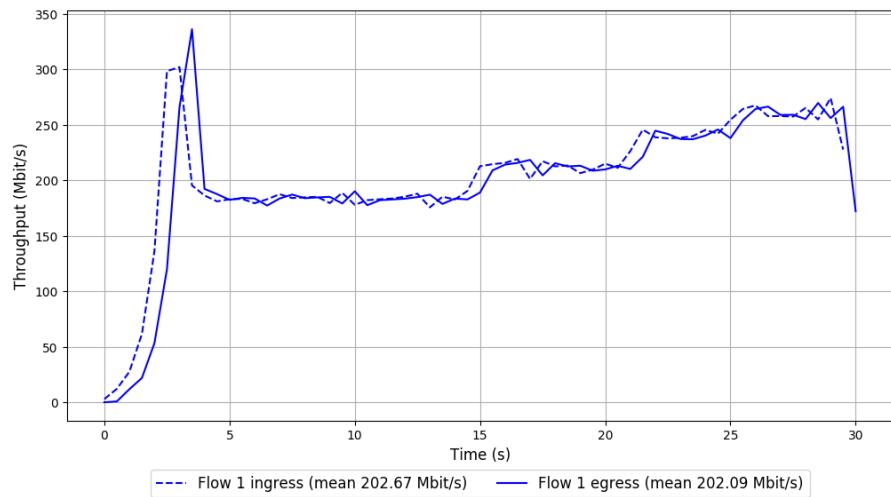


Run 2: Statistics of PCC-Expr

```
Start at: 2018-05-30 19:13:14
End at: 2018-05-30 19:13:44
Local clock offset: 4.689 ms
Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2018-05-30 23:05:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.09 Mbit/s
95th percentile per-packet one-way delay: 86.824 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 202.09 Mbit/s
95th percentile per-packet one-way delay: 86.824 ms
Loss rate: 0.87%
```

Run 2: Report of PCC-Expr — Data Link

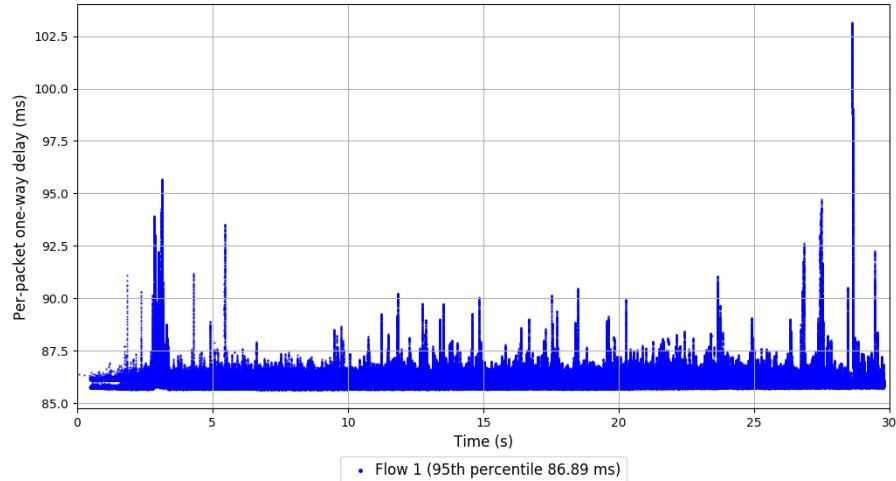
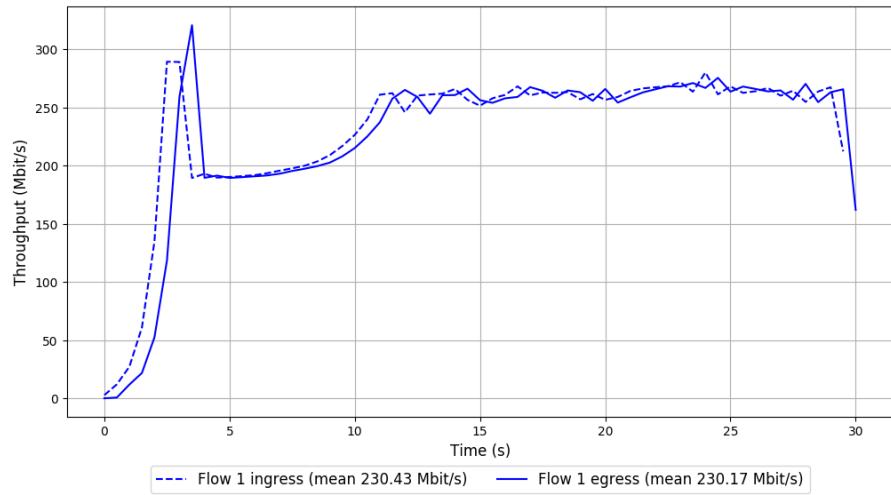


Run 3: Statistics of PCC-Expr

```
Start at: 2018-05-30 19:33:27
End at: 2018-05-30 19:33:57
Local clock offset: 2.499 ms
Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2018-05-30 23:08:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.17 Mbit/s
95th percentile per-packet one-way delay: 86.886 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 230.17 Mbit/s
95th percentile per-packet one-way delay: 86.886 ms
Loss rate: 0.69%
```

Run 3: Report of PCC-Expr — Data Link

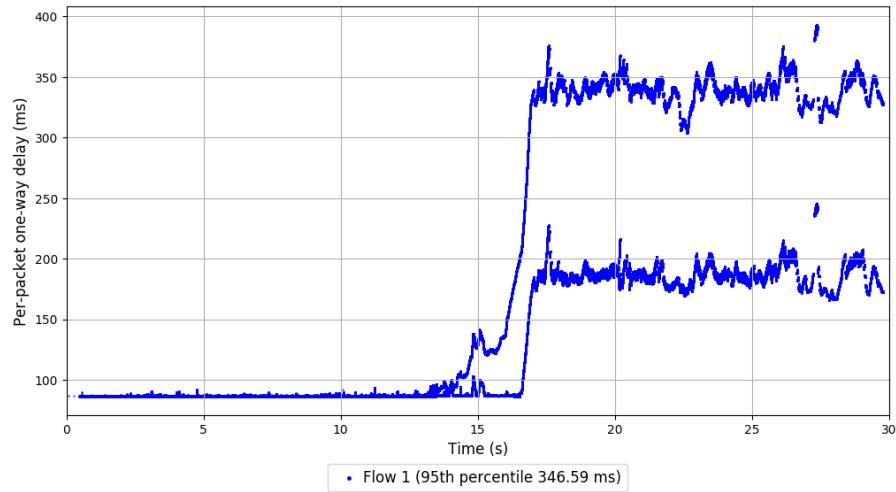
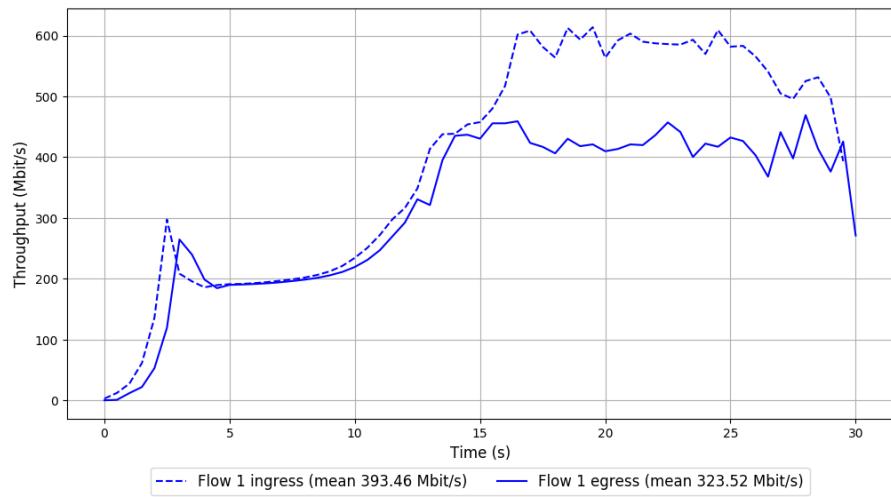


Run 4: Statistics of PCC-Expr

```
Start at: 2018-05-30 19:53:58
End at: 2018-05-30 19:54:28
Local clock offset: 2.914 ms
Remote clock offset: 0.131 ms

# Below is generated by plot.py at 2018-05-30 23:13:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.52 Mbit/s
95th percentile per-packet one-way delay: 346.589 ms
Loss rate: 18.25%
-- Flow 1:
Average throughput: 323.52 Mbit/s
95th percentile per-packet one-way delay: 346.589 ms
Loss rate: 18.25%
```

Run 4: Report of PCC-Expr — Data Link

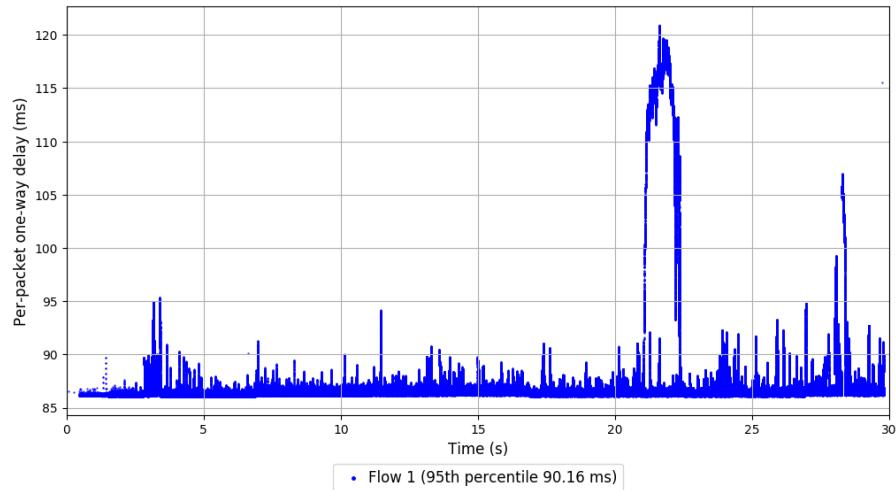
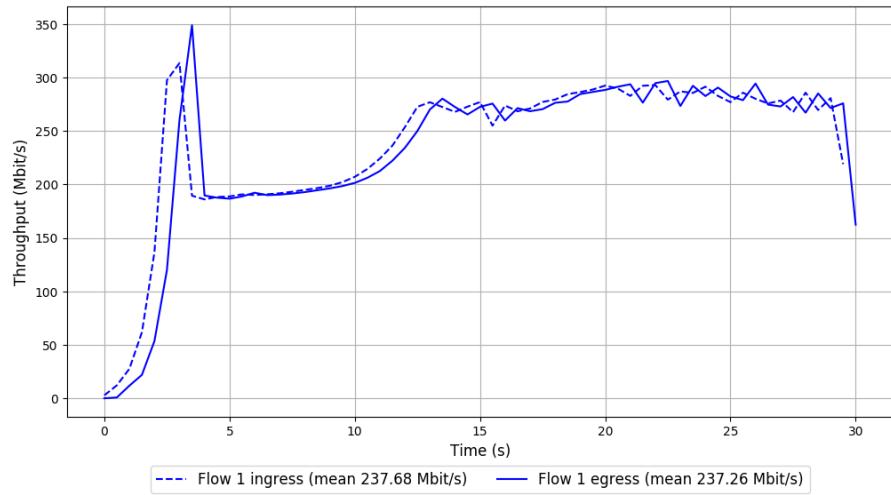


Run 5: Statistics of PCC-Expr

```
Start at: 2018-05-30 20:14:37
End at: 2018-05-30 20:15:07
Local clock offset: 1.18 ms
Remote clock offset: 0.144 ms

# Below is generated by plot.py at 2018-05-30 23:13:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 237.26 Mbit/s
95th percentile per-packet one-way delay: 90.162 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 237.26 Mbit/s
95th percentile per-packet one-way delay: 90.162 ms
Loss rate: 0.76%
```

Run 5: Report of PCC-Expr — Data Link

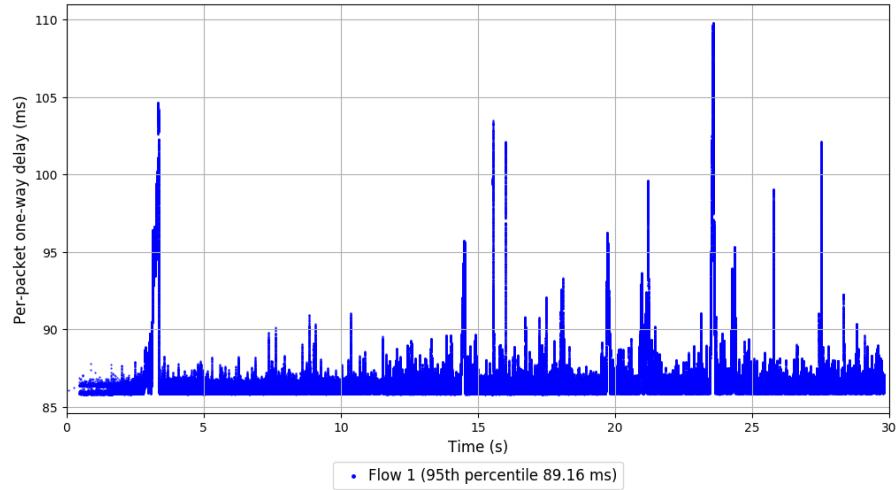
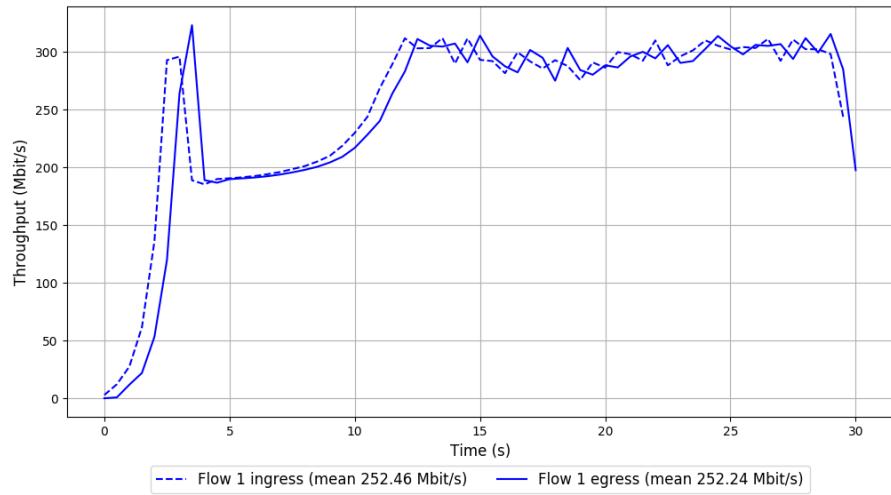


Run 6: Statistics of PCC-Expr

```
Start at: 2018-05-30 20:35:02
End at: 2018-05-30 20:35:32
Local clock offset: 0.891 ms
Remote clock offset: 0.173 ms

# Below is generated by plot.py at 2018-05-30 23:13:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.24 Mbit/s
95th percentile per-packet one-way delay: 89.155 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 252.24 Mbit/s
95th percentile per-packet one-way delay: 89.155 ms
Loss rate: 0.67%
```

Run 6: Report of PCC-Expr — Data Link

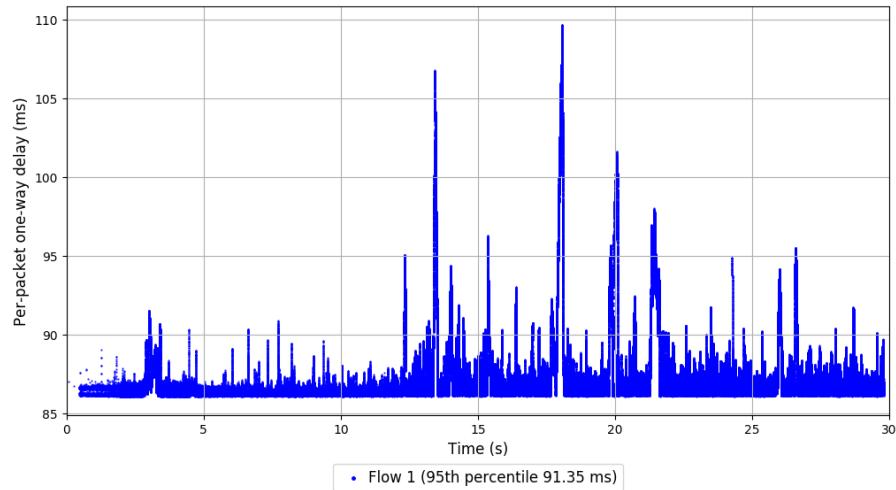
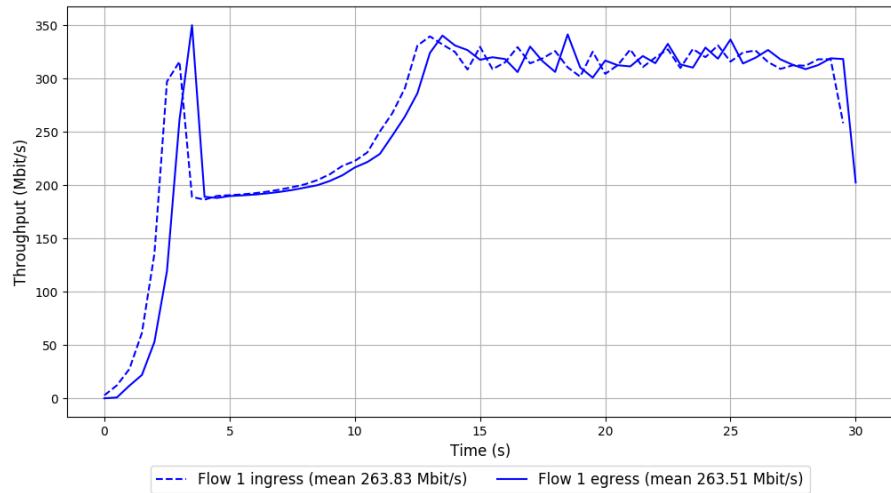


Run 7: Statistics of PCC-Expr

```
Start at: 2018-05-30 20:55:39
End at: 2018-05-30 20:56:09
Local clock offset: 0.605 ms
Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2018-05-30 23:13:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.51 Mbit/s
95th percentile per-packet one-way delay: 91.351 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 263.51 Mbit/s
95th percentile per-packet one-way delay: 91.351 ms
Loss rate: 0.70%
```

Run 7: Report of PCC-Expr — Data Link

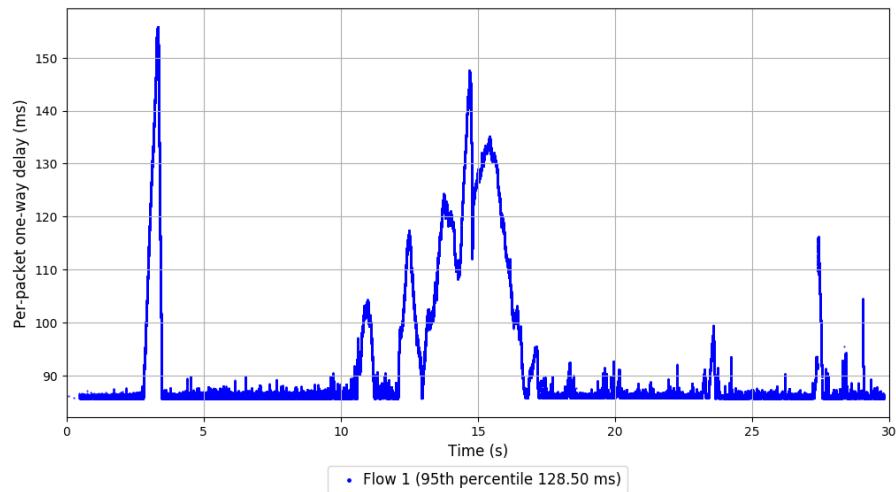
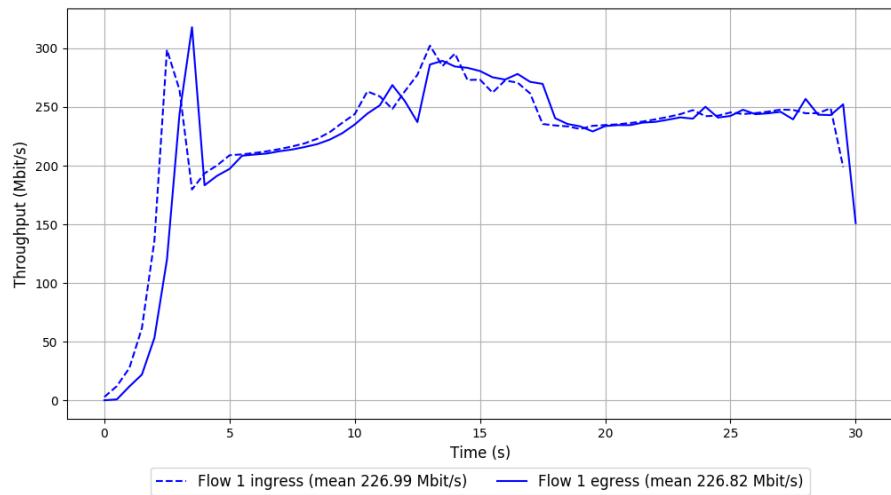


Run 8: Statistics of PCC-Expr

```
Start at: 2018-05-30 21:15:50
End at: 2018-05-30 21:16:20
Local clock offset: 0.375 ms
Remote clock offset: 0.195 ms

# Below is generated by plot.py at 2018-05-30 23:13:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.82 Mbit/s
95th percentile per-packet one-way delay: 128.499 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 226.82 Mbit/s
95th percentile per-packet one-way delay: 128.499 ms
Loss rate: 0.65%
```

Run 8: Report of PCC-Expr — Data Link

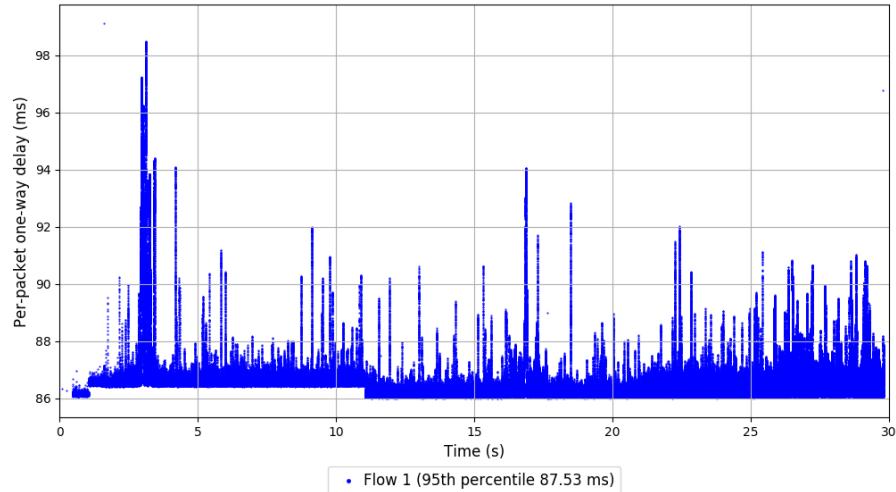
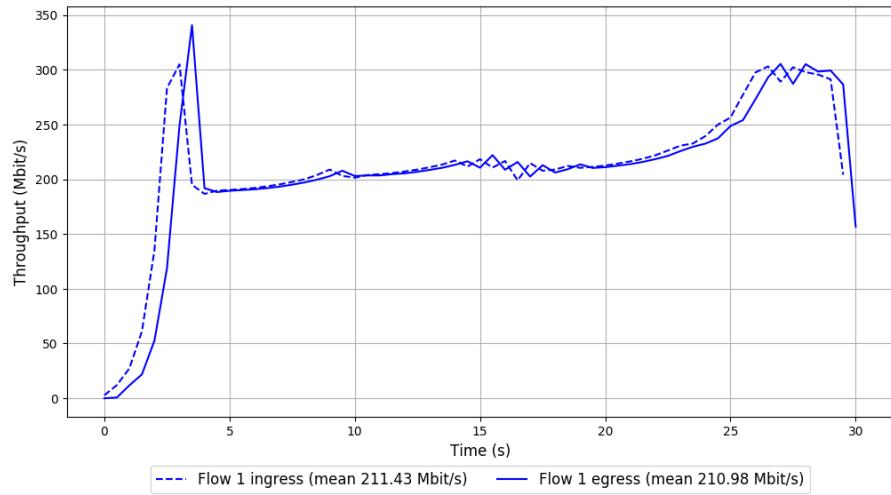


Run 9: Statistics of PCC-Expr

```
Start at: 2018-05-30 21:36:23
End at: 2018-05-30 21:36:53
Local clock offset: 0.937 ms
Remote clock offset: 0.243 ms

# Below is generated by plot.py at 2018-05-30 23:13:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.98 Mbit/s
95th percentile per-packet one-way delay: 87.532 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 210.98 Mbit/s
95th percentile per-packet one-way delay: 87.532 ms
Loss rate: 0.79%
```

Run 9: Report of PCC-Expr — Data Link

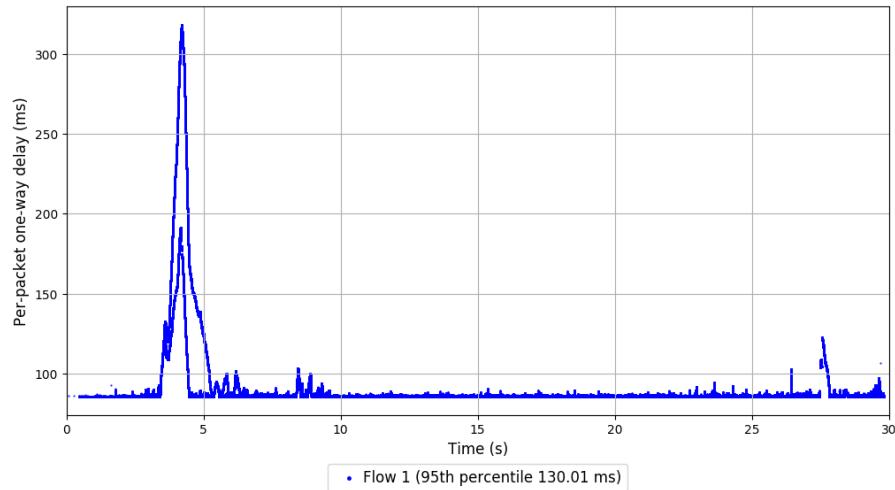
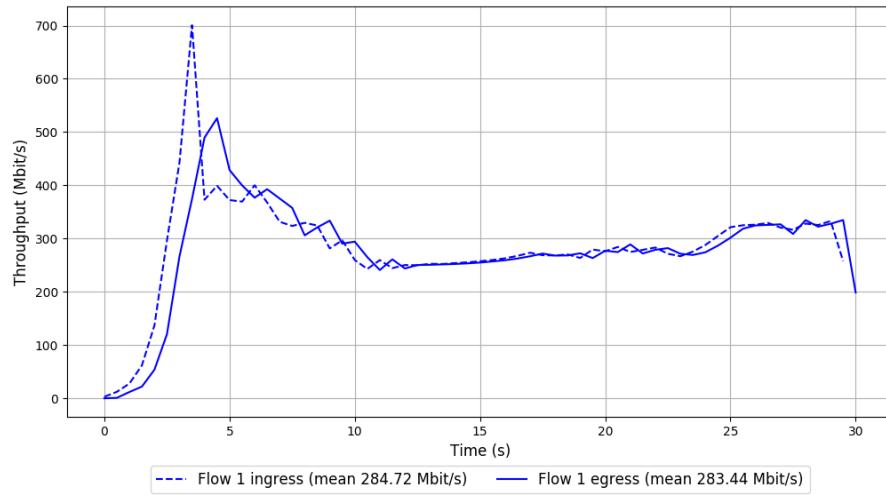


Run 10: Statistics of PCC-Expr

```
Start at: 2018-05-30 21:56:52
End at: 2018-05-30 21:57:22
Local clock offset: -0.361 ms
Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 283.44 Mbit/s
95th percentile per-packet one-way delay: 130.006 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 283.44 Mbit/s
95th percentile per-packet one-way delay: 130.006 ms
Loss rate: 1.02%
```

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

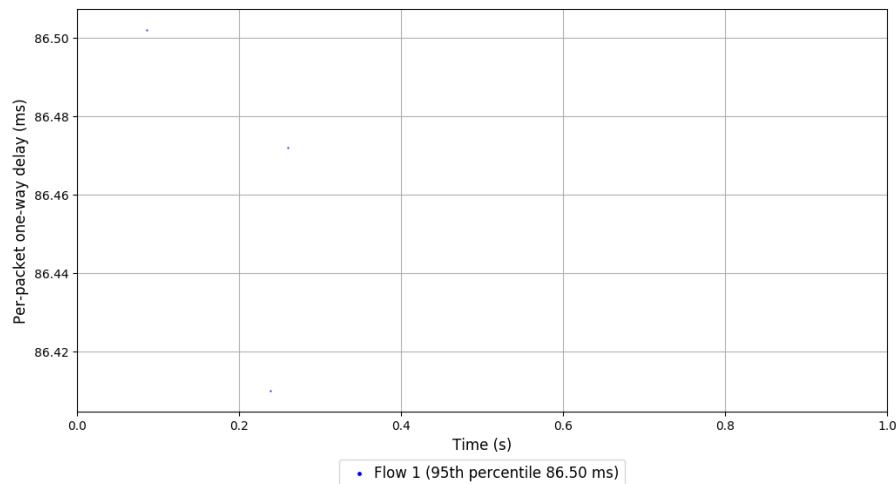
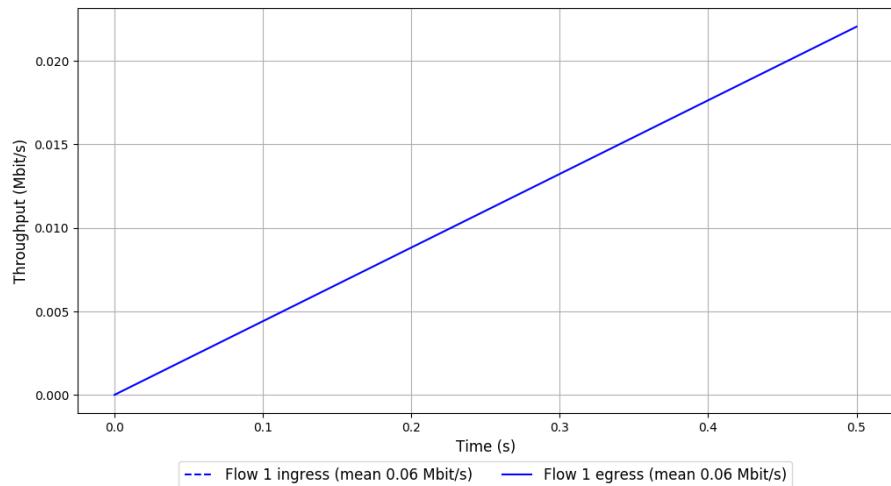
Start at: 2018-05-30 18:50:42

End at: 2018-05-30 18:51:12

Local clock offset: 10.968 ms

Remote clock offset: 0.067 ms

Run 1: Report of QUIC Cubic — Data Link

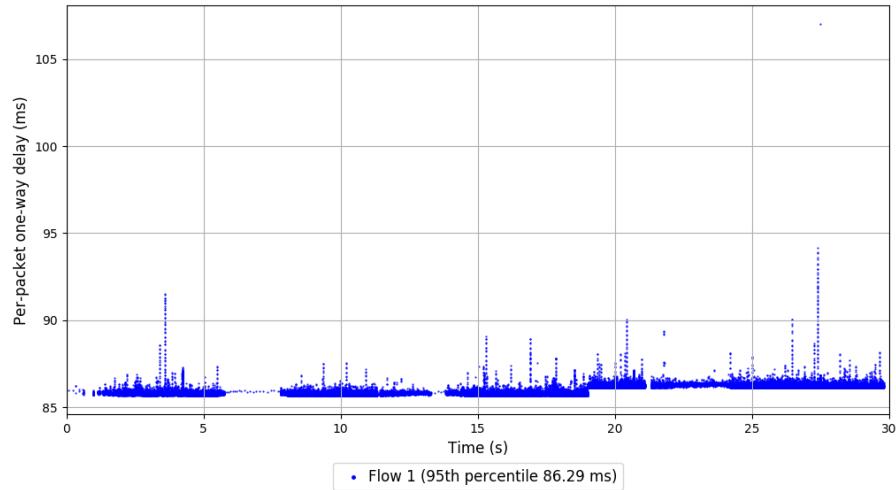
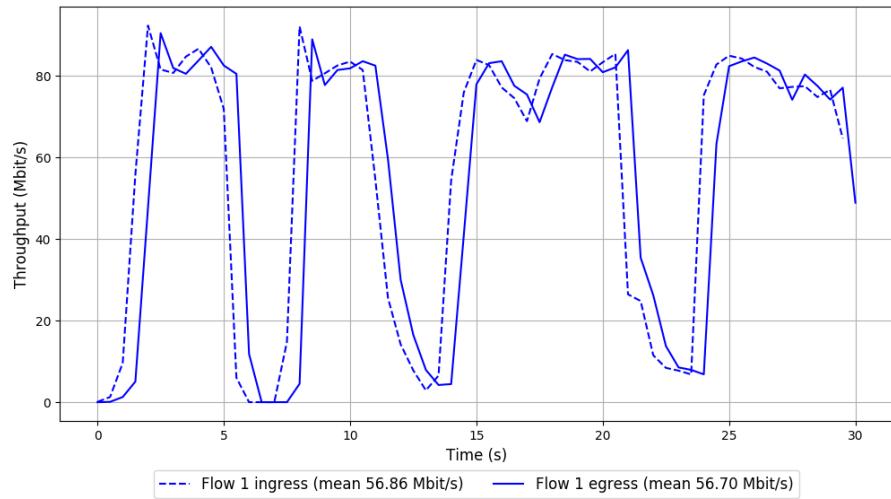


Run 2: Statistics of QUIC Cubic

```
Start at: 2018-05-30 19:10:45
End at: 2018-05-30 19:11:15
Local clock offset: 4.68 ms
Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.70 Mbit/s
95th percentile per-packet one-way delay: 86.287 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 56.70 Mbit/s
95th percentile per-packet one-way delay: 86.287 ms
Loss rate: 0.86%
```

Run 2: Report of QUIC Cubic — Data Link

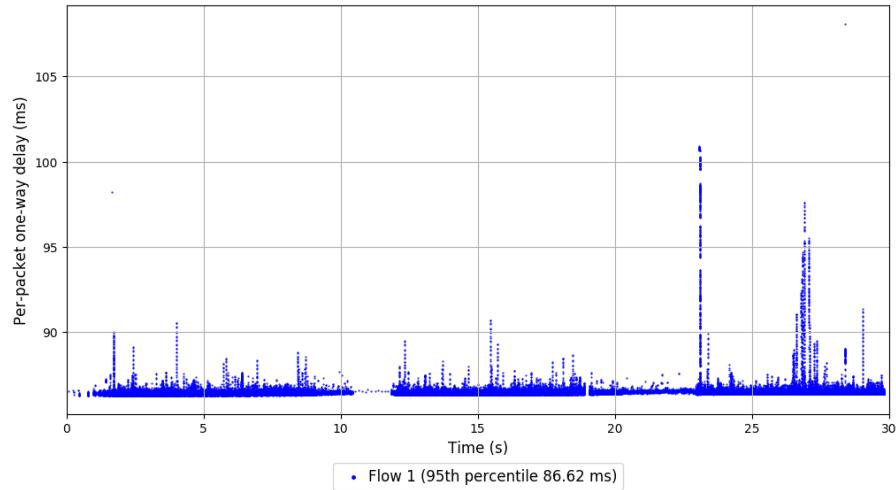
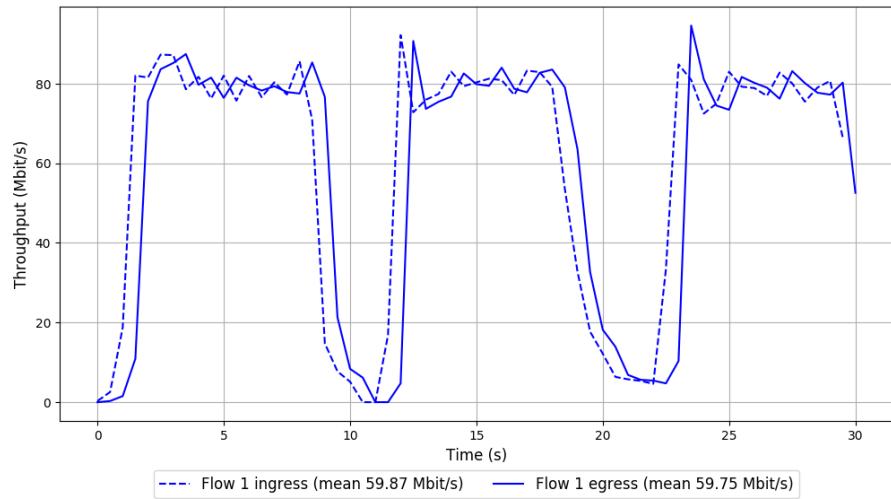


Run 3: Statistics of QUIC Cubic

```
Start at: 2018-05-30 19:30:55
End at: 2018-05-30 19:31:25
Local clock offset: 3.115 ms
Remote clock offset: 0.077 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.75 Mbit/s
95th percentile per-packet one-way delay: 86.618 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 59.75 Mbit/s
95th percentile per-packet one-way delay: 86.618 ms
Loss rate: 0.78%
```

Run 3: Report of QUIC Cubic — Data Link

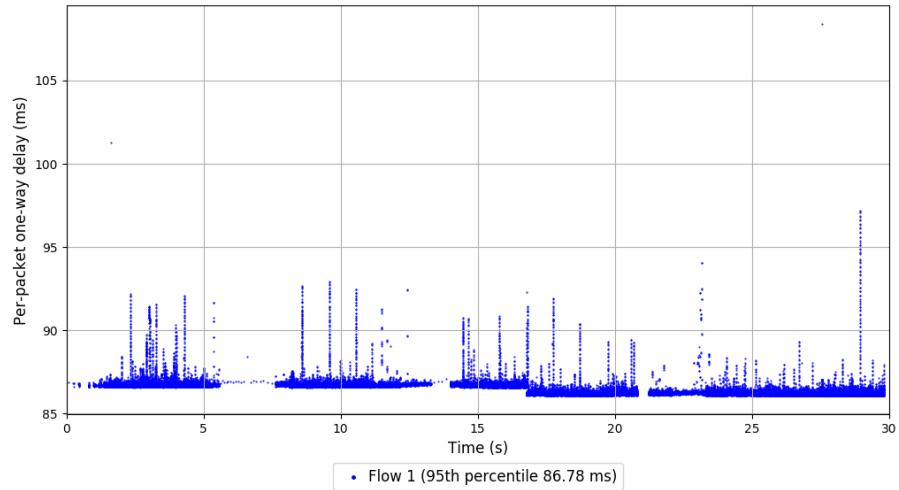
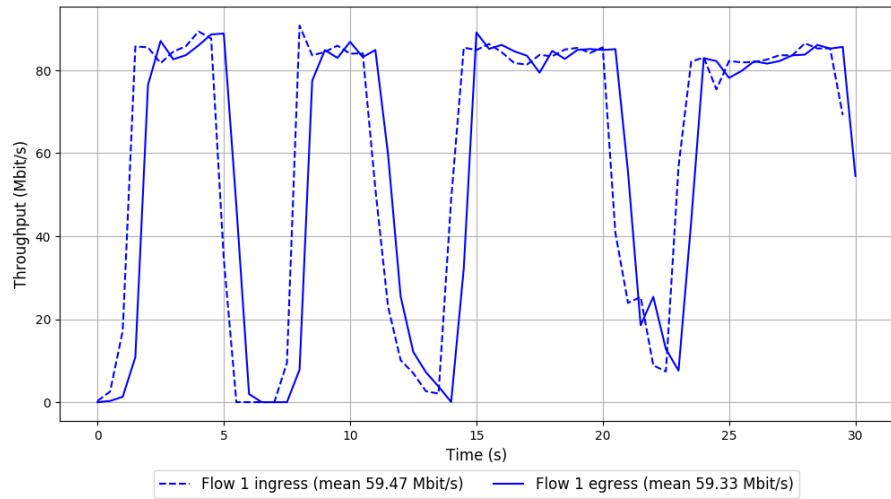


Run 4: Statistics of QUIC Cubic

```
Start at: 2018-05-30 19:51:27
End at: 2018-05-30 19:51:57
Local clock offset: 2.765 ms
Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.33 Mbit/s
95th percentile per-packet one-way delay: 86.784 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 59.33 Mbit/s
95th percentile per-packet one-way delay: 86.784 ms
Loss rate: 0.82%
```

Run 4: Report of QUIC Cubic — Data Link

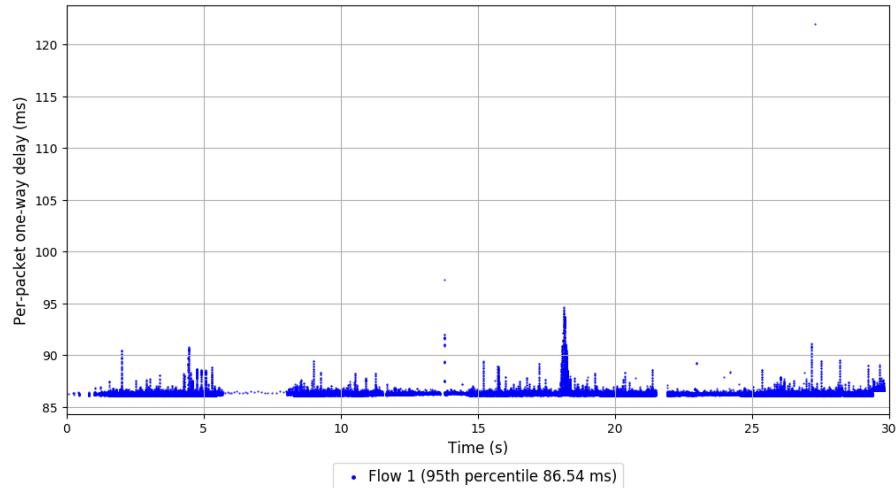
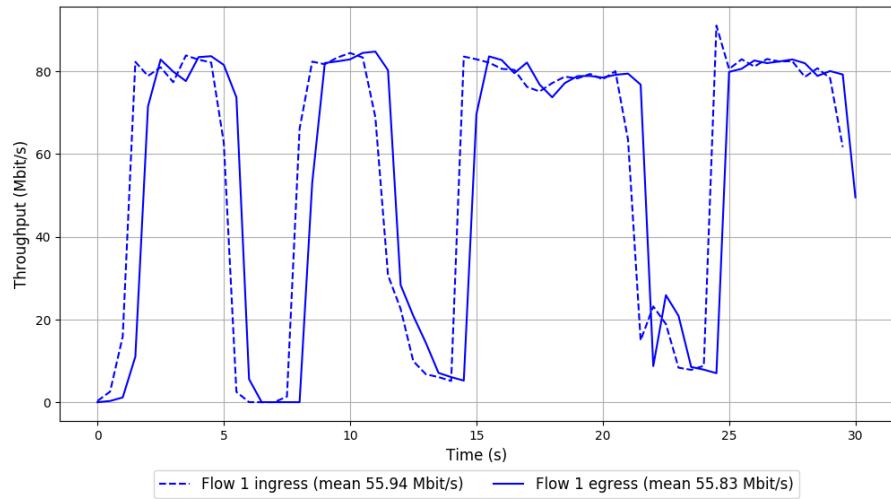


Run 5: Statistics of QUIC Cubic

```
Start at: 2018-05-30 20:12:05
End at: 2018-05-30 20:12:35
Local clock offset: 1.277 ms
Remote clock offset: 0.122 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.83 Mbit/s
95th percentile per-packet one-way delay: 86.536 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 55.83 Mbit/s
95th percentile per-packet one-way delay: 86.536 ms
Loss rate: 0.78%
```

Run 5: Report of QUIC Cubic — Data Link

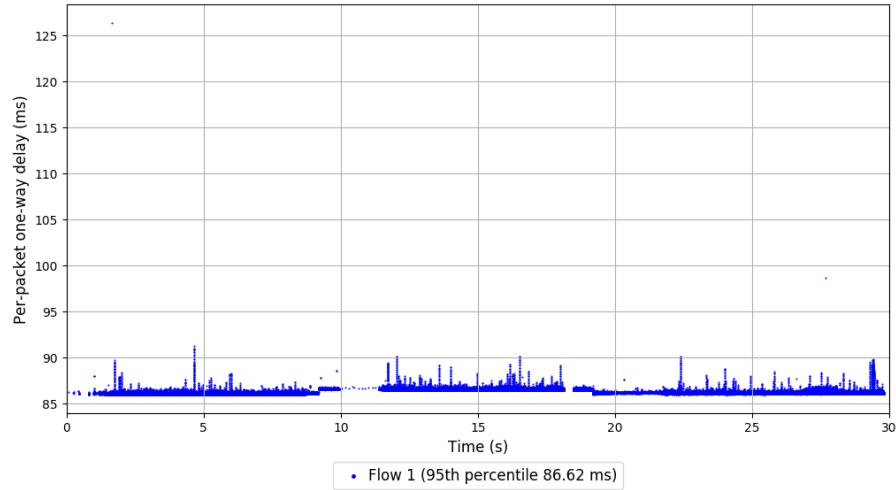
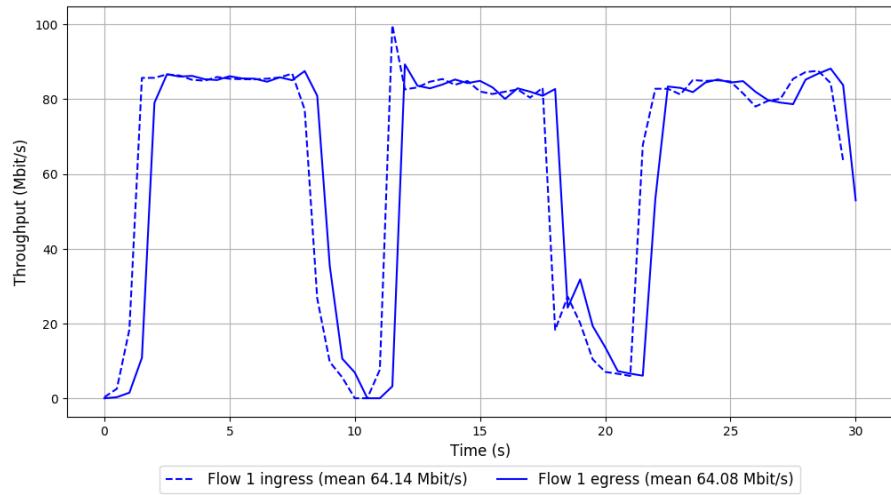


Run 6: Statistics of QUIC Cubic

```
Start at: 2018-05-30 20:32:35
End at: 2018-05-30 20:33:05
Local clock offset: 1.374 ms
Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.08 Mbit/s
95th percentile per-packet one-way delay: 86.624 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 64.08 Mbit/s
95th percentile per-packet one-way delay: 86.624 ms
Loss rate: 0.67%
```

Run 6: Report of QUIC Cubic — Data Link

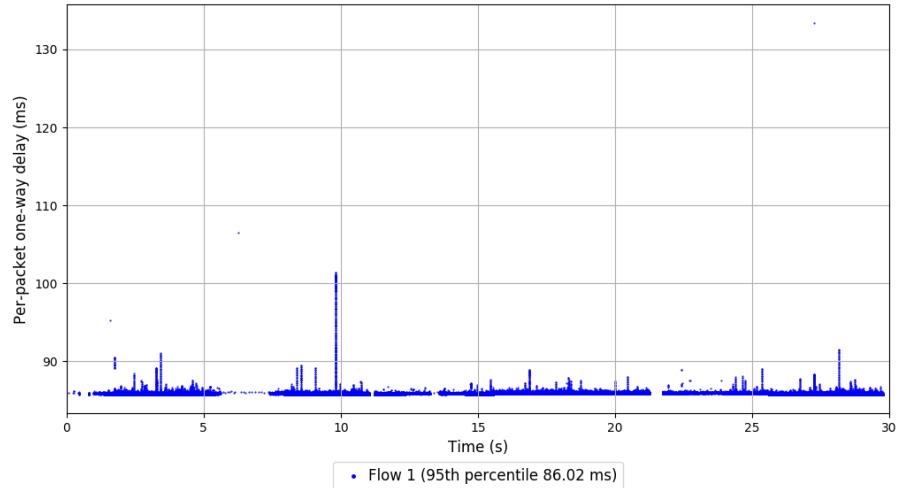
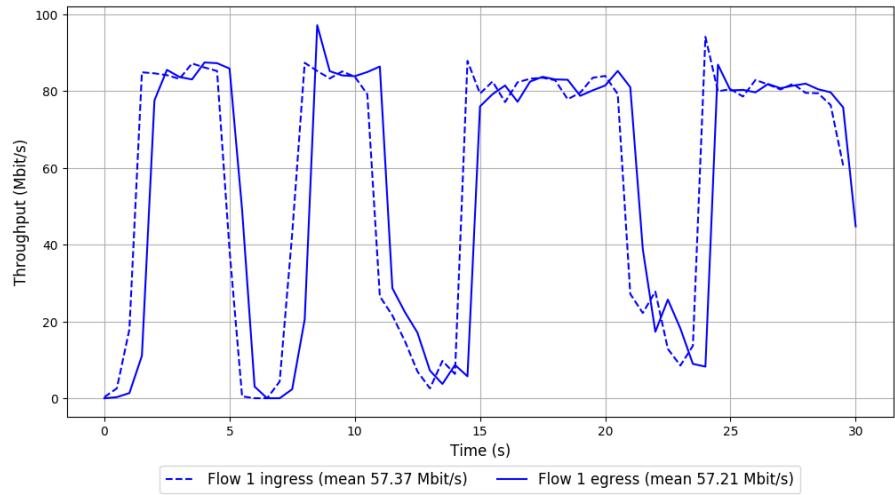


Run 7: Statistics of QUIC Cubic

```
Start at: 2018-05-30 20:53:08
End at: 2018-05-30 20:53:38
Local clock offset: 0.203 ms
Remote clock offset: 0.171 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 86.018 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 57.21 Mbit/s
95th percentile per-packet one-way delay: 86.018 ms
Loss rate: 0.85%
```

Run 7: Report of QUIC Cubic — Data Link

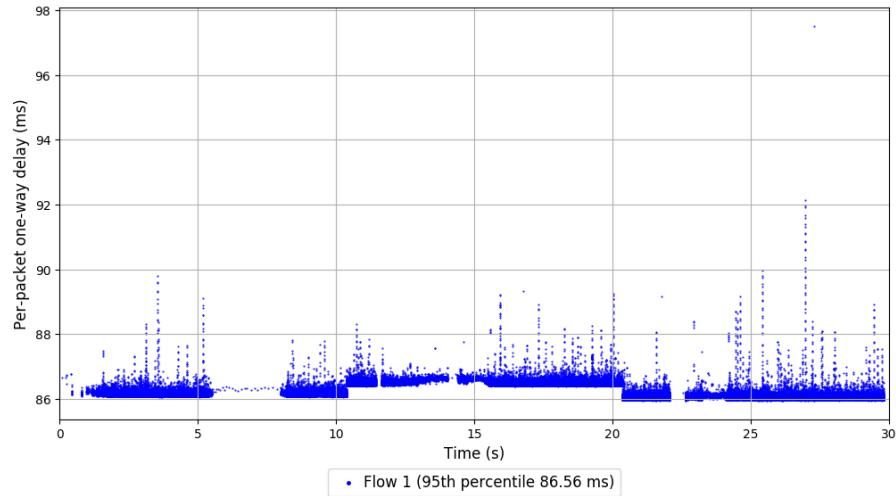
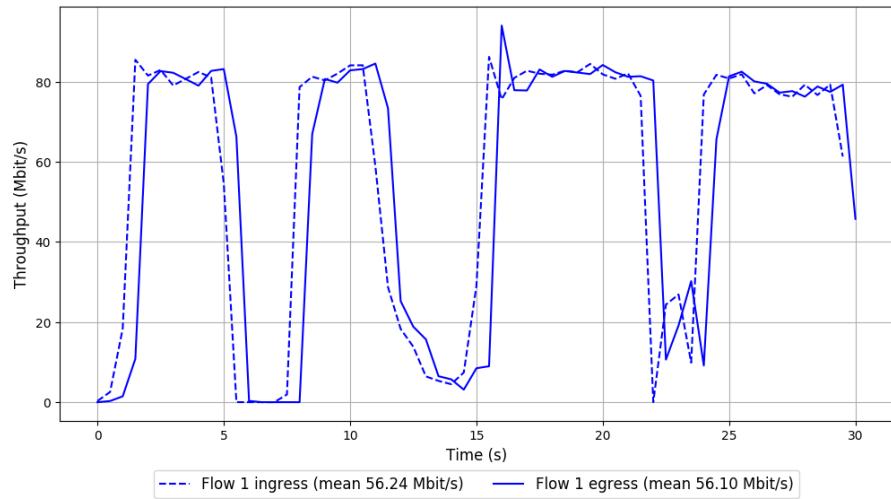


Run 8: Statistics of QUIC Cubic

```
Start at: 2018-05-30 21:13:23
End at: 2018-05-30 21:13:54
Local clock offset: 0.586 ms
Remote clock offset: 0.178 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 86.563 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 56.10 Mbit/s
95th percentile per-packet one-way delay: 86.563 ms
Loss rate: 0.84%
```

Run 8: Report of QUIC Cubic — Data Link

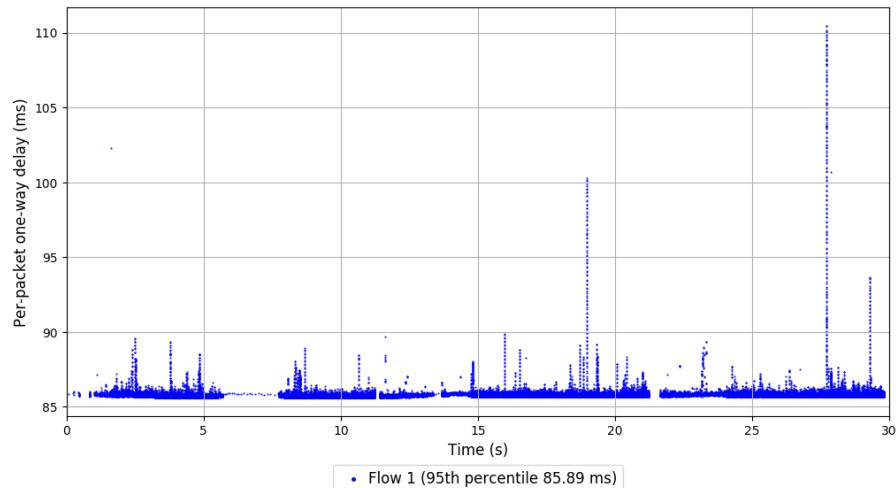
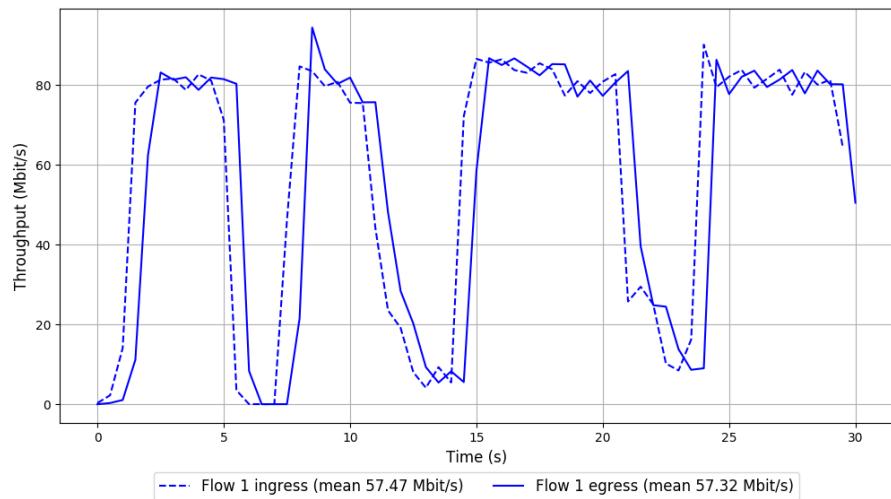


Run 9: Statistics of QUIC Cubic

```
Start at: 2018-05-30 21:33:51
End at: 2018-05-30 21:34:21
Local clock offset: 0.543 ms
Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.32 Mbit/s
95th percentile per-packet one-way delay: 85.894 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 57.32 Mbit/s
95th percentile per-packet one-way delay: 85.894 ms
Loss rate: 0.84%
```

Run 9: Report of QUIC Cubic — Data Link

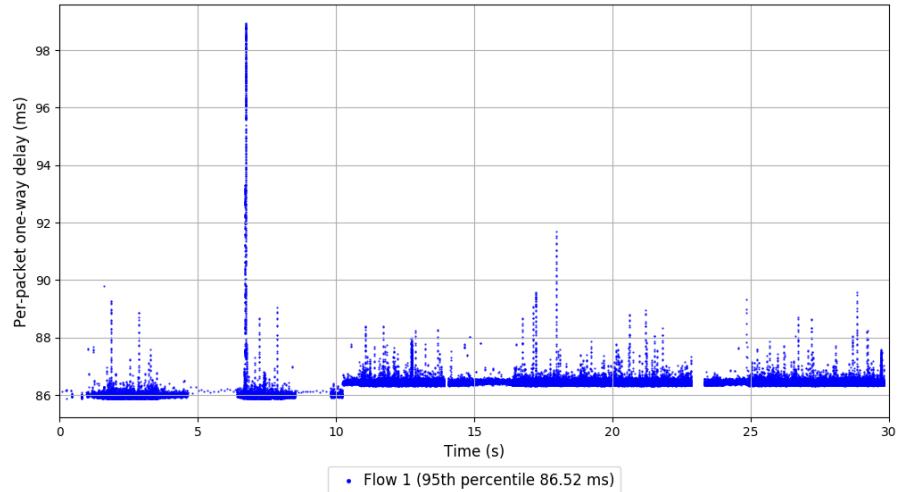
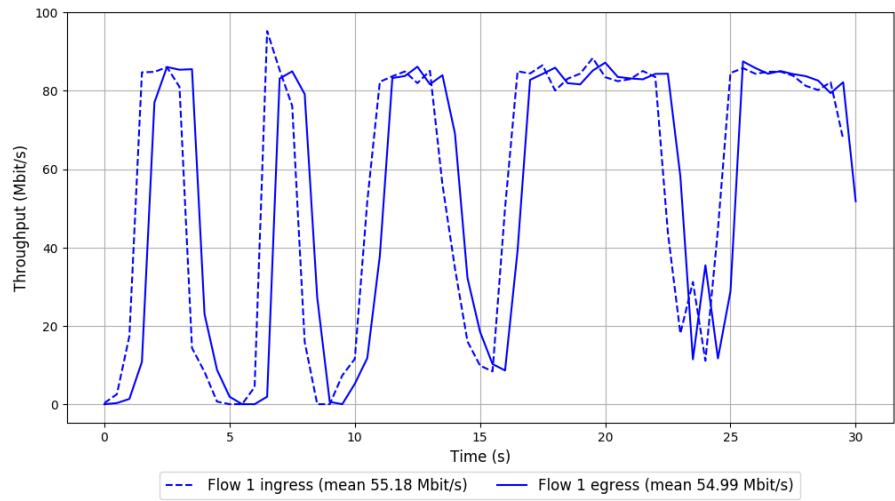


Run 10: Statistics of QUIC Cubic

```
Start at: 2018-05-30 21:54:24
End at: 2018-05-30 21:54:54
Local clock offset: -0.048 ms
Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 86.519 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 54.99 Mbit/s
95th percentile per-packet one-way delay: 86.519 ms
Loss rate: 0.92%
```

Run 10: Report of QUIC Cubic — Data Link

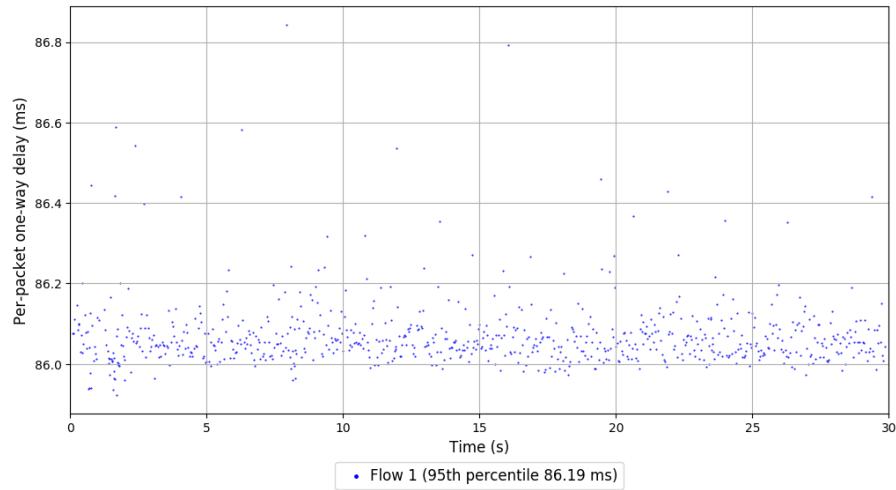
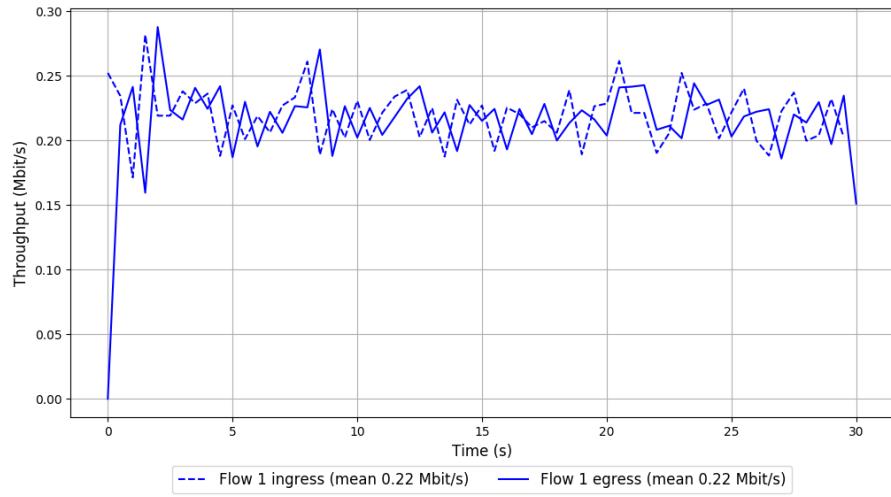


Run 1: Statistics of SCReAM

```
Start at: 2018-05-30 19:08:11
End at: 2018-05-30 19:08:41
Local clock offset: 4.634 ms
Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.192 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.192 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link

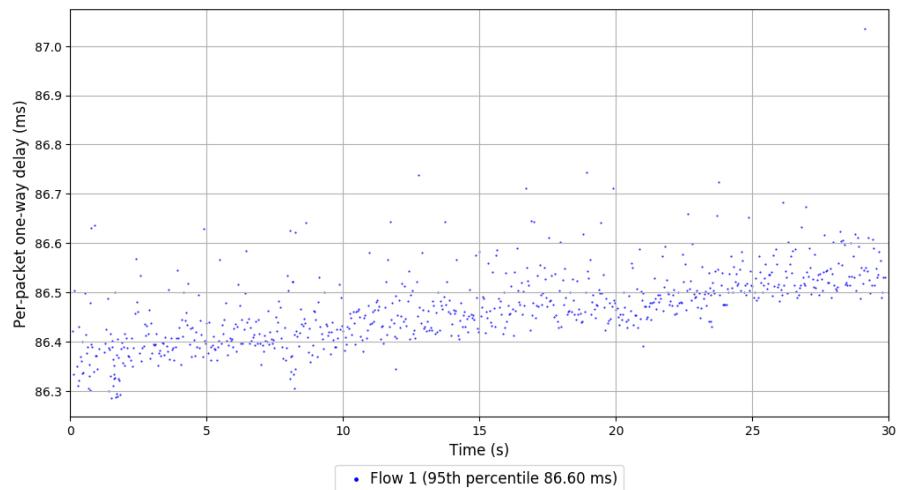
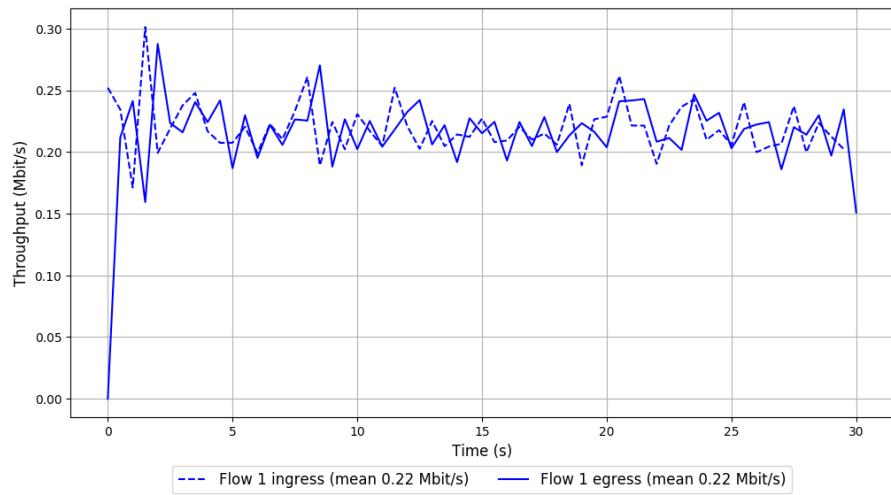


Run 2: Statistics of SCReAM

```
Start at: 2018-05-30 19:28:22
End at: 2018-05-30 19:28:52
Local clock offset: 4.123 ms
Remote clock offset: 0.117 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.596 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.596 ms
Loss rate: 0.64%
```

Run 2: Report of SCReAM — Data Link

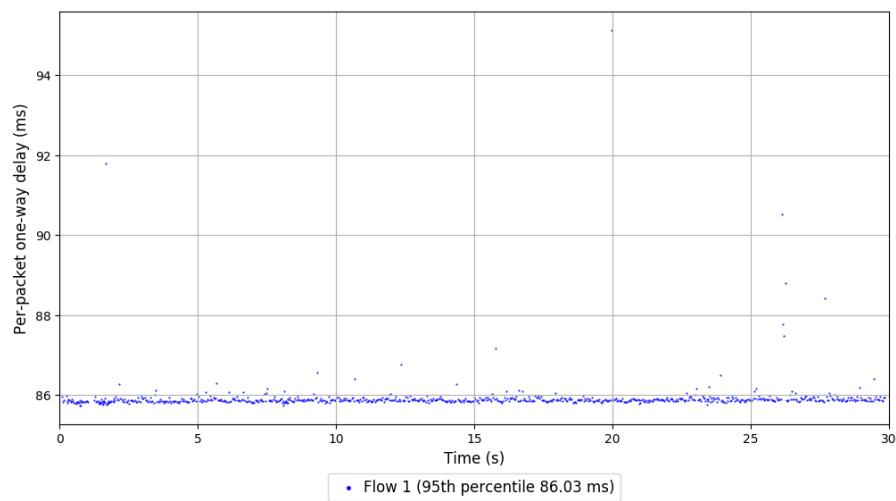
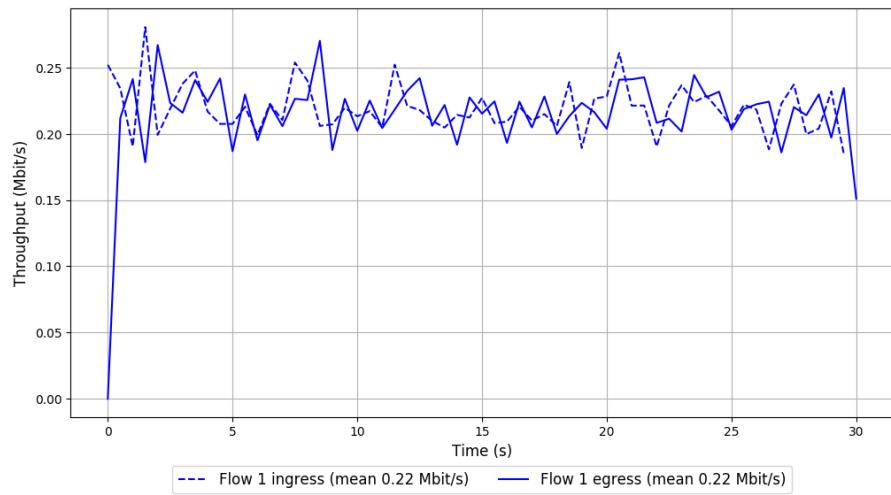


Run 3: Statistics of SCReAM

```
Start at: 2018-05-30 19:48:58
End at: 2018-05-30 19:49:28
Local clock offset: 2.163 ms
Remote clock offset: 0.141 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.028 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.028 ms
Loss rate: 0.51%
```

Run 3: Report of SCReAM — Data Link

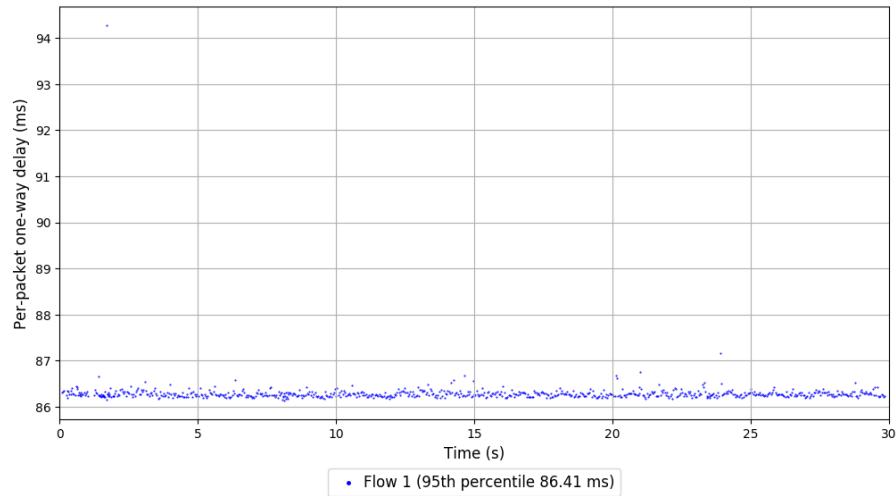
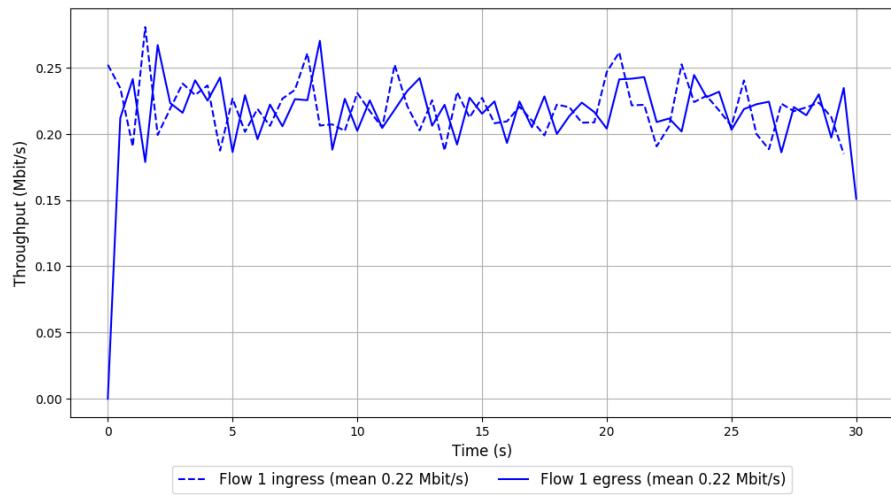


Run 4: Statistics of SCReAM

```
Start at: 2018-05-30 20:09:31
End at: 2018-05-30 20:10:01
Local clock offset: 1.265 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.411 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.411 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link

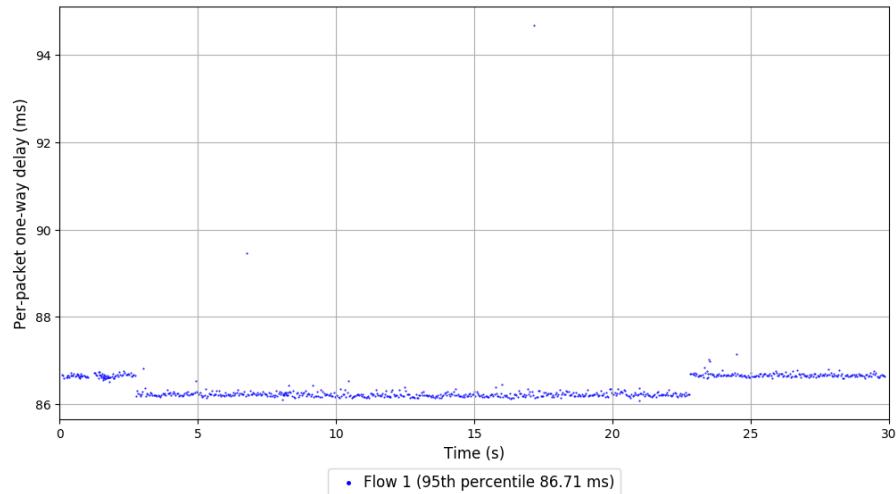
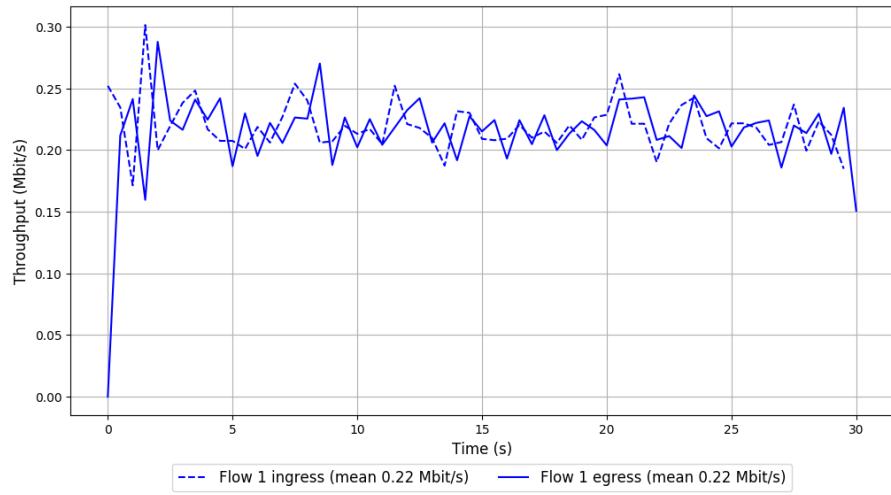


Run 5: Statistics of SCReAM

```
Start at: 2018-05-30 20:30:01
End at: 2018-05-30 20:30:31
Local clock offset: 1.392 ms
Remote clock offset: 0.158 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.708 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.708 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link

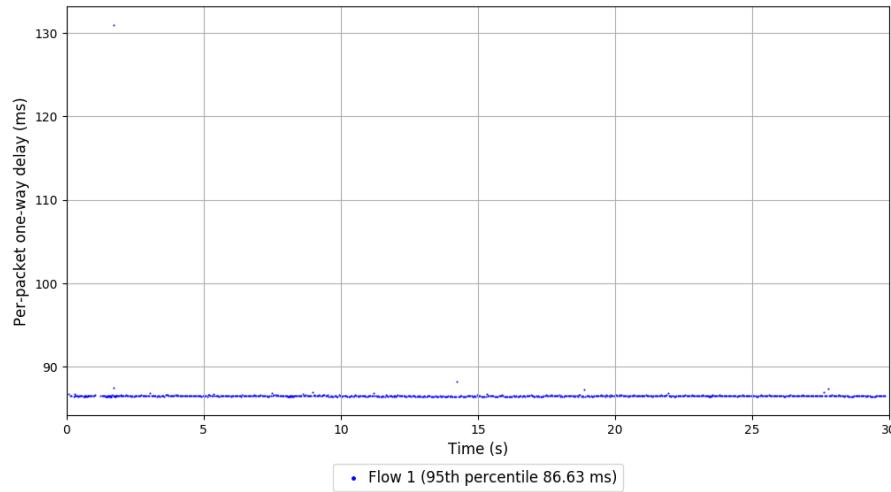
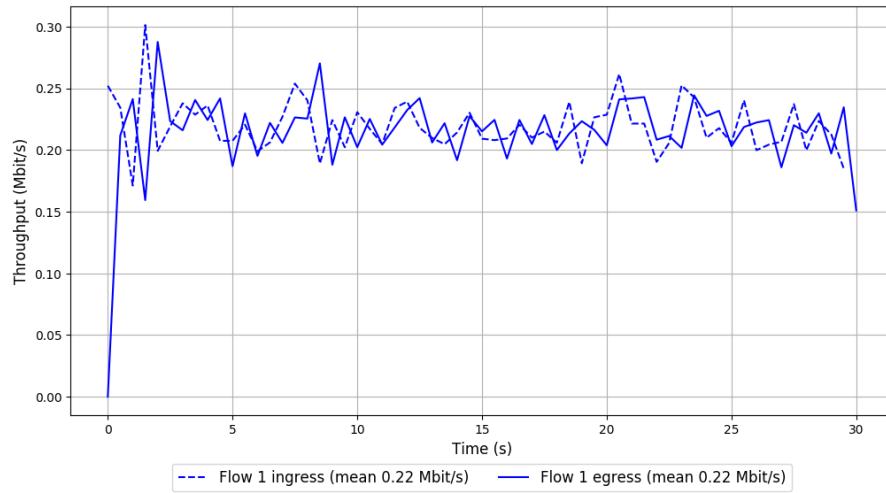


Run 6: Statistics of SCReAM

```
Start at: 2018-05-30 20:50:34
End at: 2018-05-30 20:51:04
Local clock offset: 0.794 ms
Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.626 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.626 ms
Loss rate: 0.51%
```

Run 6: Report of SCReAM — Data Link

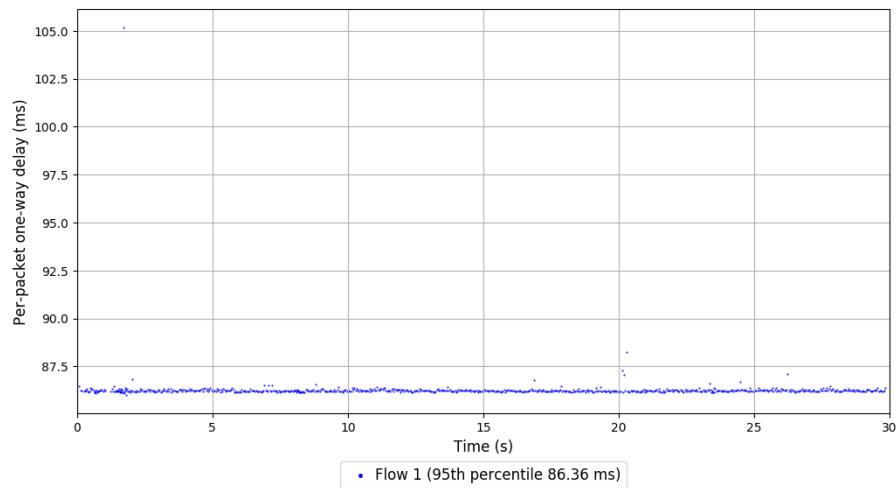
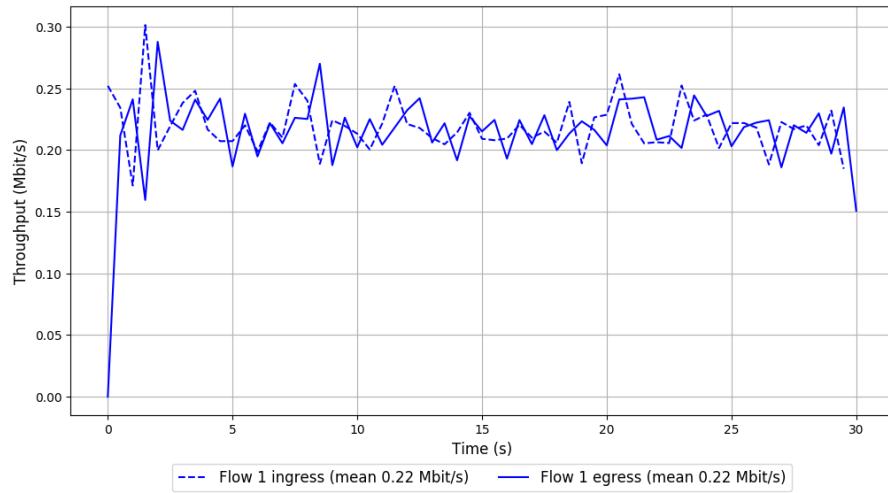


Run 7: Statistics of SCReAM

```
Start at: 2018-05-30 21:10:50
End at: 2018-05-30 21:11:20
Local clock offset: 0.597 ms
Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.359 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.359 ms
Loss rate: 0.51%
```

Run 7: Report of SCReAM — Data Link

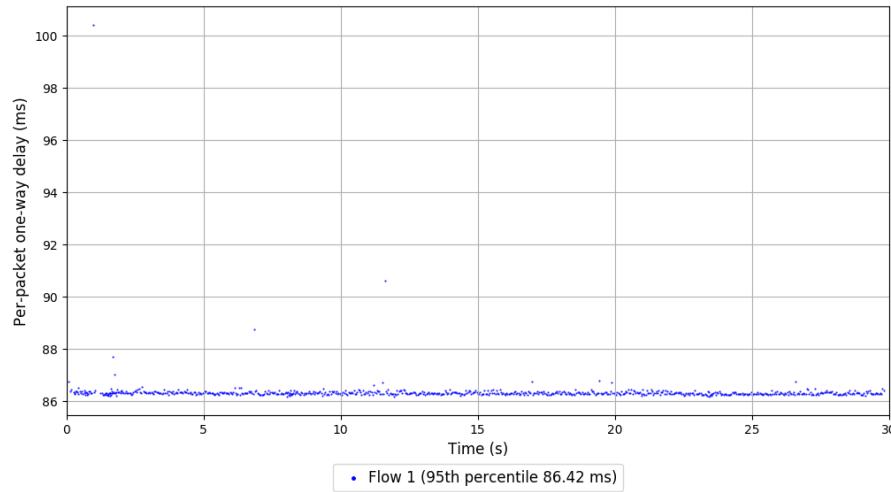
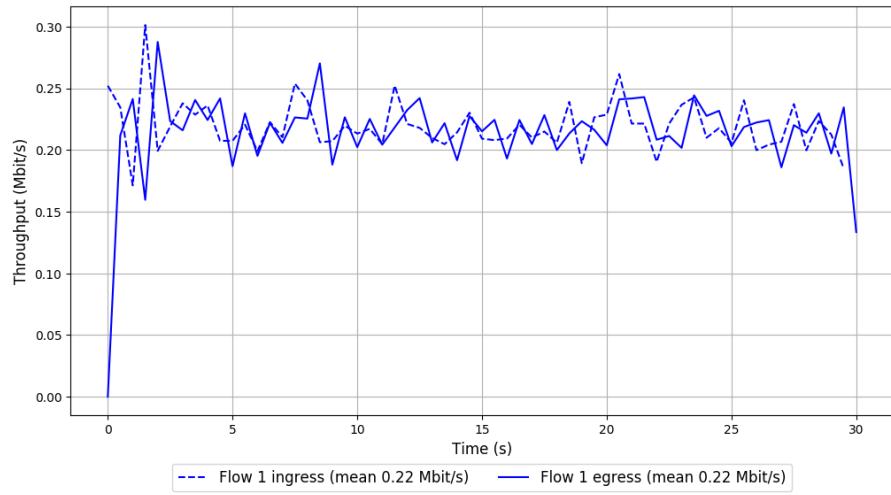


Run 8: Statistics of SCReAM

```
Start at: 2018-05-30 21:31:17
End at: 2018-05-30 21:31:47
Local clock offset: 0.787 ms
Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.424 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.424 ms
Loss rate: 0.64%
```

Run 8: Report of SCReAM — Data Link

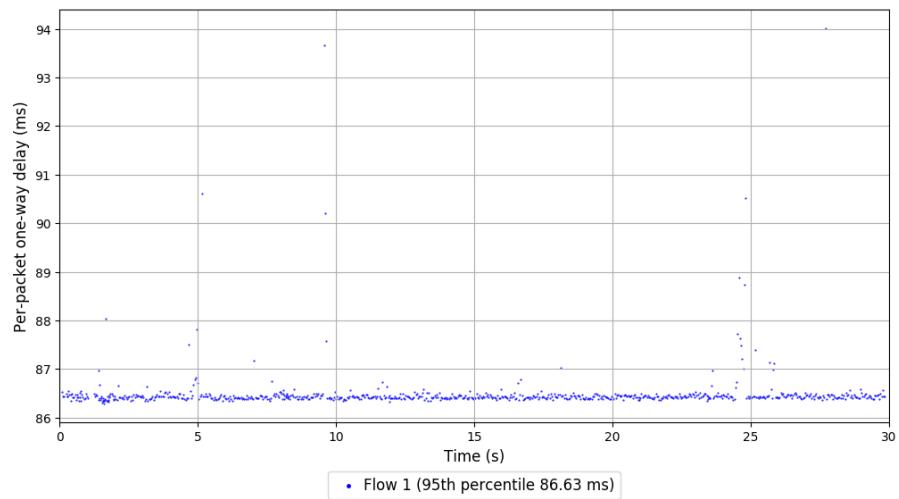
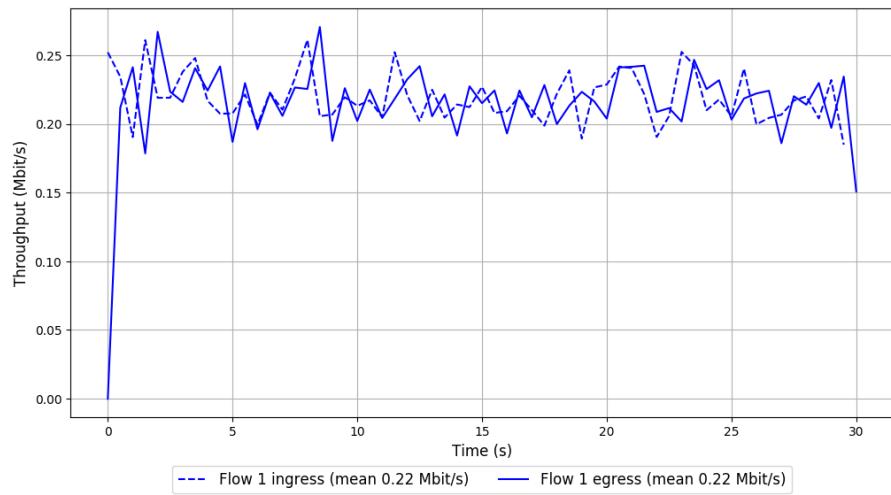


Run 9: Statistics of SCReAM

```
Start at: 2018-05-30 21:51:50
End at: 2018-05-30 21:52:21
Local clock offset: 0.153 ms
Remote clock offset: 0.292 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.628 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.628 ms
Loss rate: 0.51%
```

Run 9: Report of SCReAM — Data Link

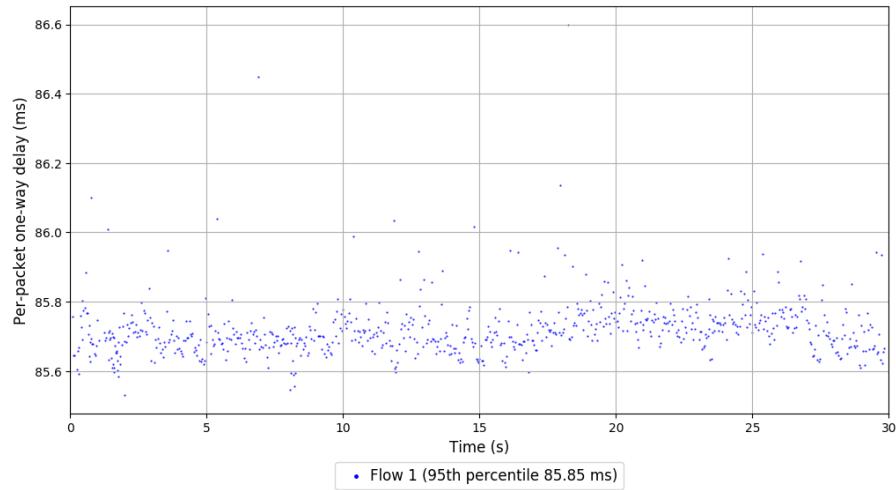
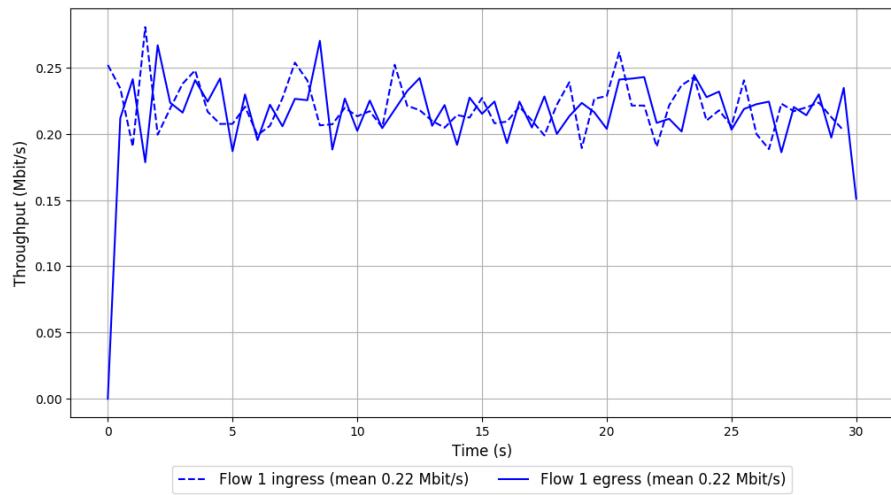


Run 10: Statistics of SCReAM

```
Start at: 2018-05-30 22:12:17
End at: 2018-05-30 22:12:47
Local clock offset: -0.698 ms
Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.847 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.847 ms
Loss rate: 0.64%
```

Run 10: Report of SCReAM — Data Link

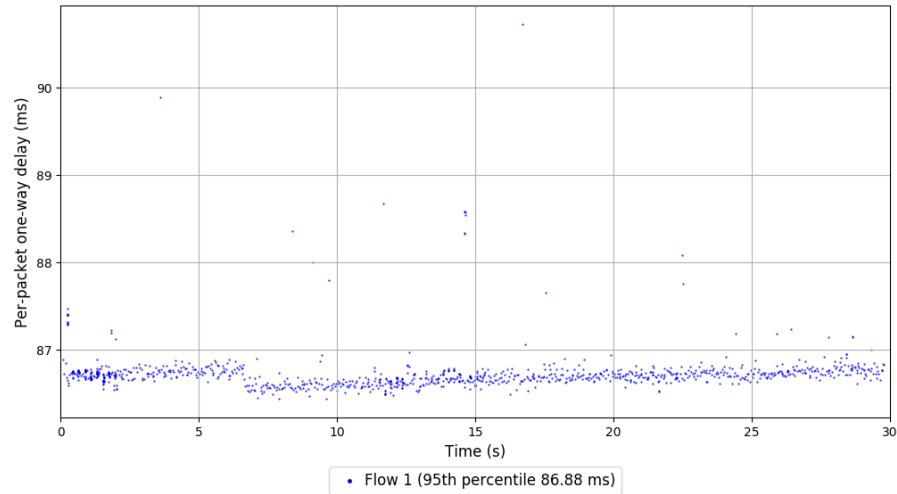
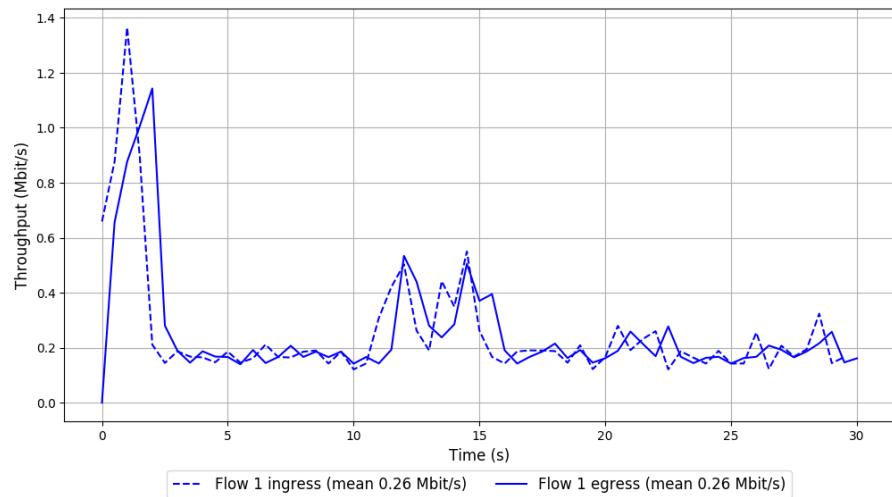


Run 1: Statistics of Sprout

```
Start at: 2018-05-30 18:54:27
End at: 2018-05-30 18:54:57
Local clock offset: 8.007 ms
Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 86.880 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 86.880 ms
Loss rate: 0.46%
```

Run 1: Report of Sprout — Data Link

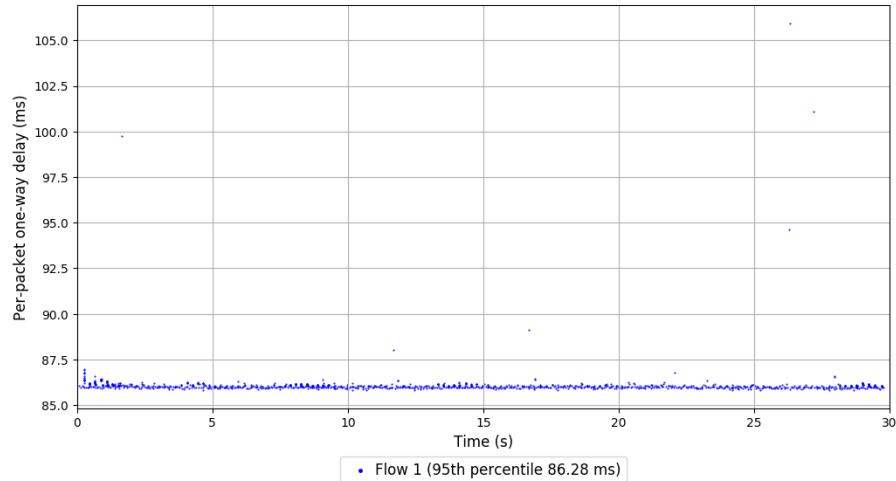
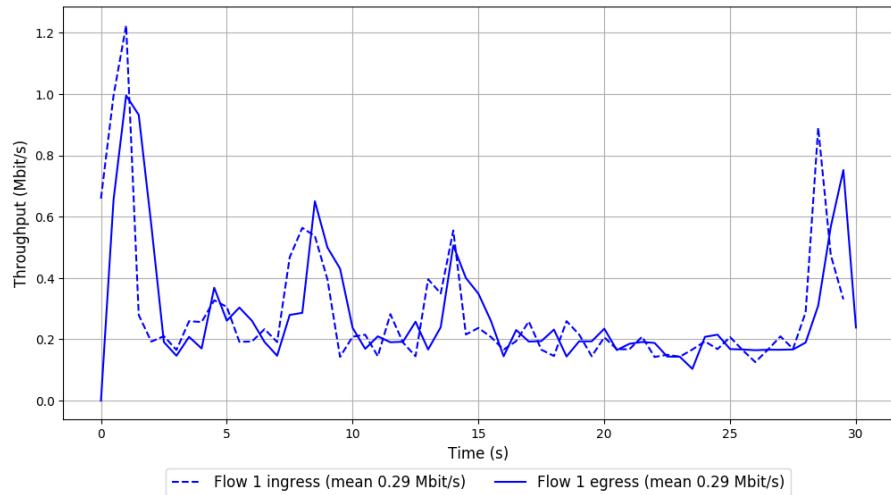


Run 2: Statistics of Sprout

```
Start at: 2018-05-30 19:14:40
End at: 2018-05-30 19:15:10
Local clock offset: 5.093 ms
Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.283 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.283 ms
Loss rate: 0.82%
```

Run 2: Report of Sprout — Data Link

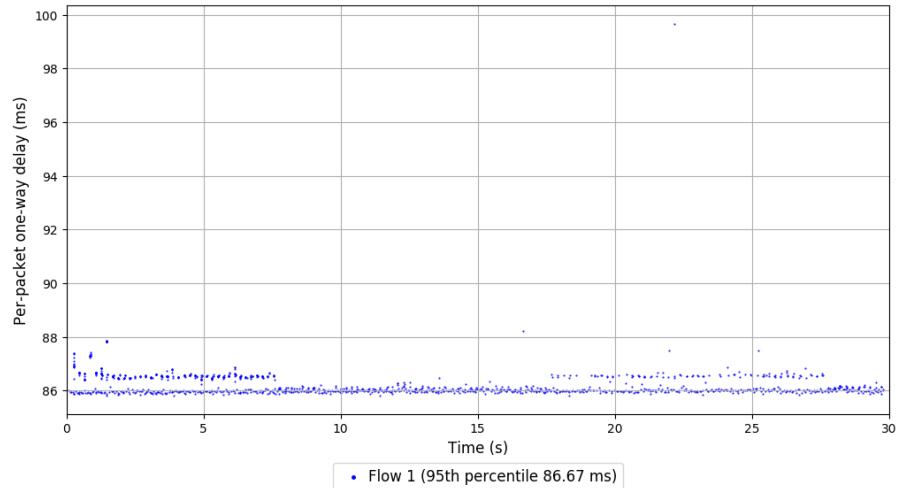
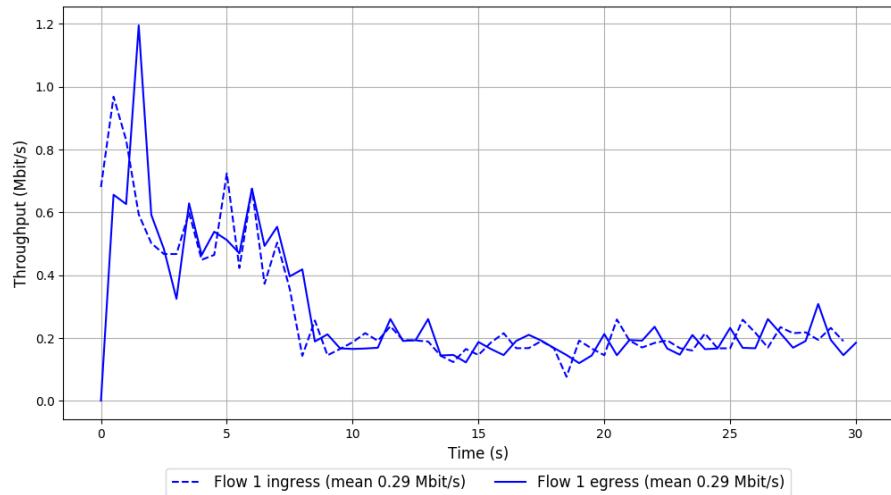


Run 3: Statistics of Sprout

```
Start at: 2018-05-30 19:34:56
End at: 2018-05-30 19:35:26
Local clock offset: 2.354 ms
Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.670 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.670 ms
Loss rate: 0.55%
```

Run 3: Report of Sprout — Data Link

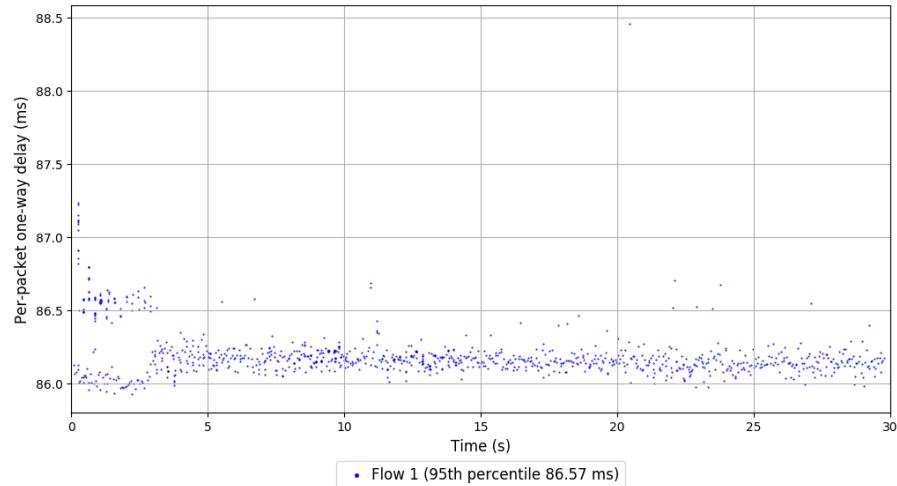
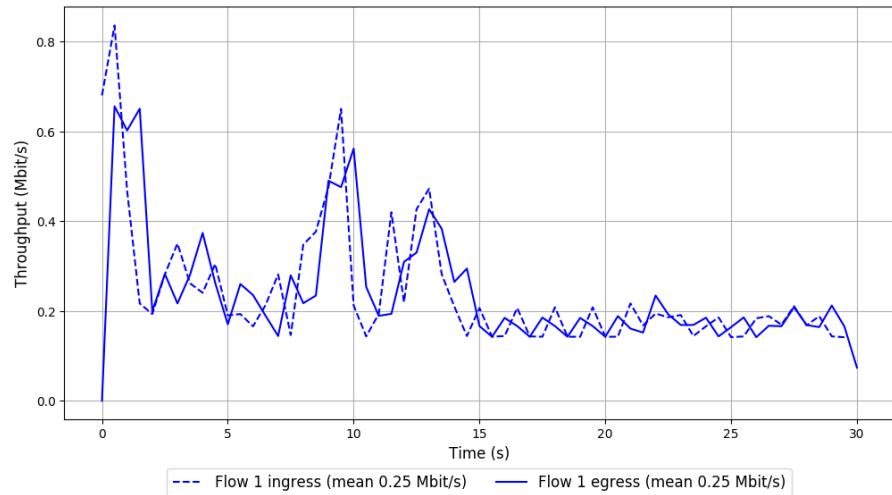


Run 4: Statistics of Sprout

```
Start at: 2018-05-30 19:55:31
End at: 2018-05-30 19:56:01
Local clock offset: 2.763 ms
Remote clock offset: 0.123 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.573 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.573 ms
Loss rate: 0.48%
```

Run 4: Report of Sprout — Data Link

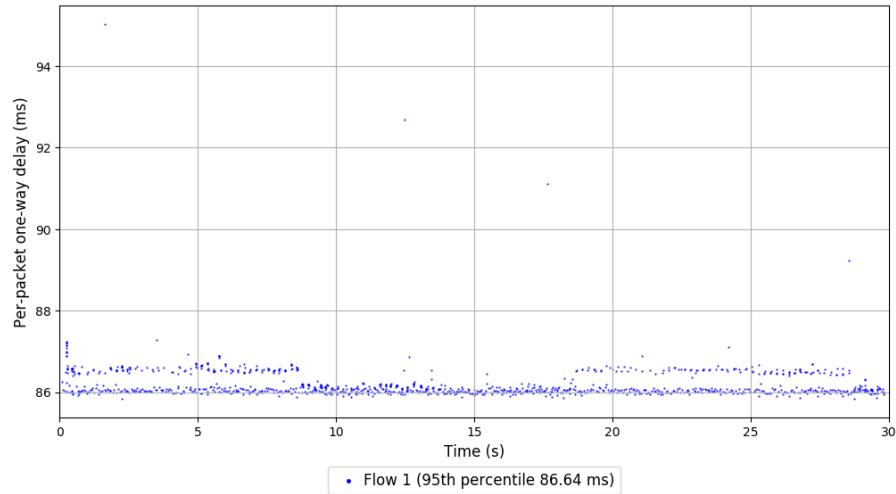
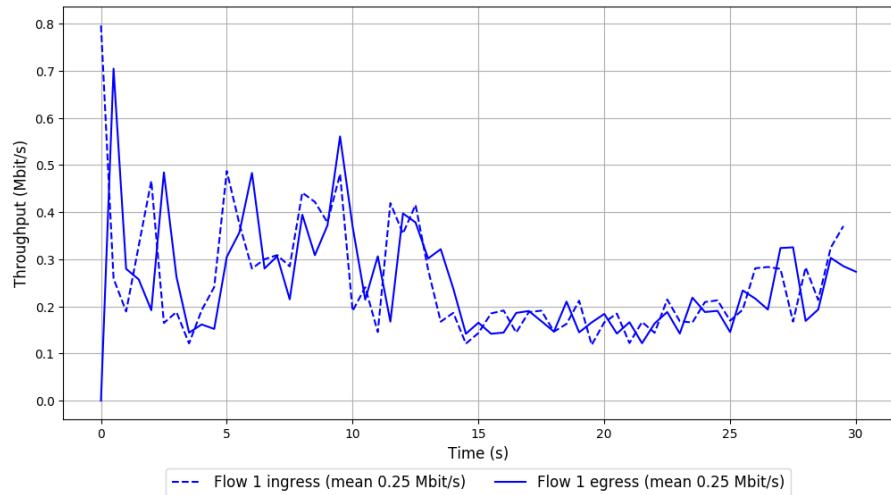


Run 5: Statistics of Sprout

```
Start at: 2018-05-30 20:16:05
End at: 2018-05-30 20:16:35
Local clock offset: 0.952 ms
Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.641 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.641 ms
Loss rate: 0.91%
```

Run 5: Report of Sprout — Data Link

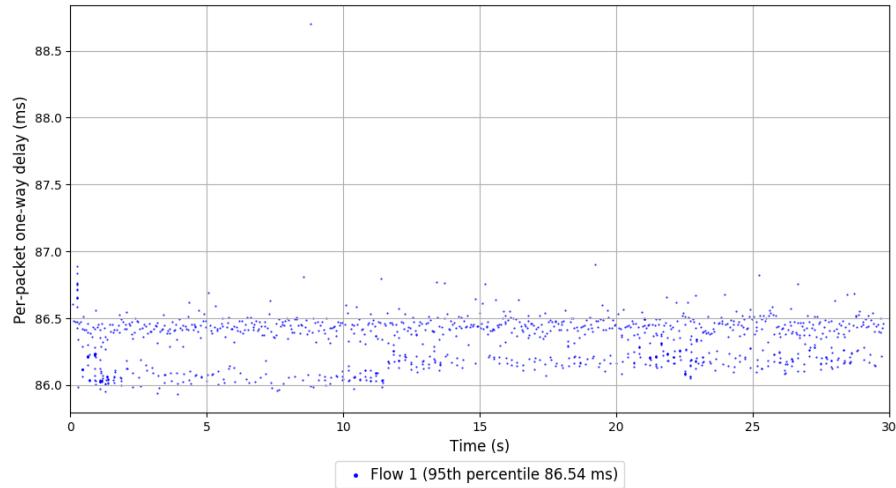
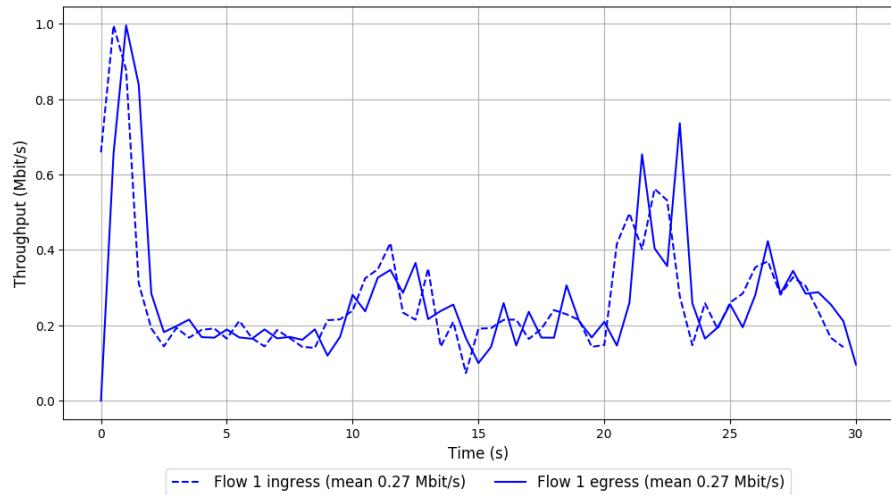


Run 6: Statistics of Sprout

```
Start at: 2018-05-30 20:36:32
End at: 2018-05-30 20:37:02
Local clock offset: 0.663 ms
Remote clock offset: 0.137 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.542 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.542 ms
Loss rate: 0.43%
```

Run 6: Report of Sprout — Data Link

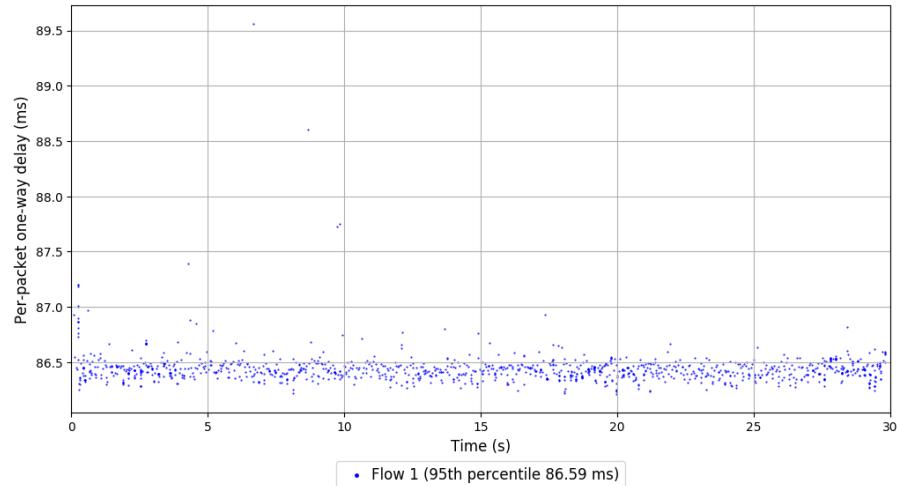
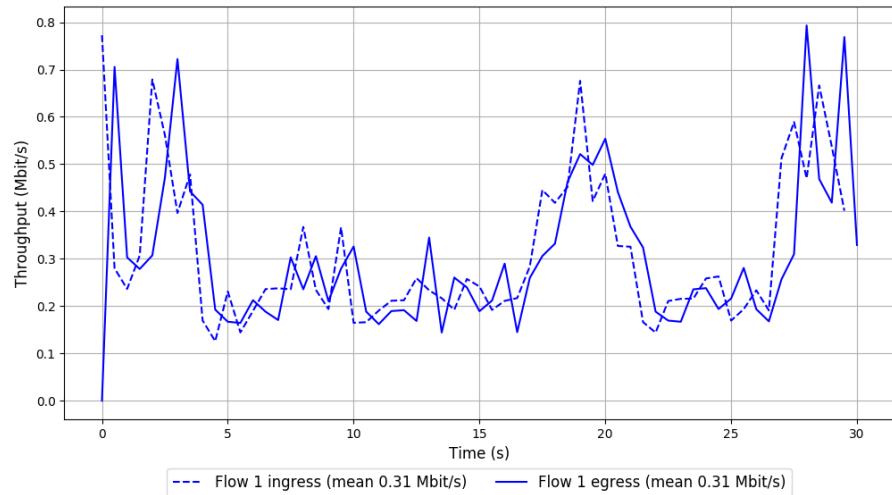


Run 7: Statistics of Sprout

```
Start at: 2018-05-30 20:57:11
End at: 2018-05-30 20:57:41
Local clock offset: 0.617 ms
Remote clock offset: 0.201 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 86.587 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 86.587 ms
Loss rate: 0.49%
```

Run 7: Report of Sprout — Data Link

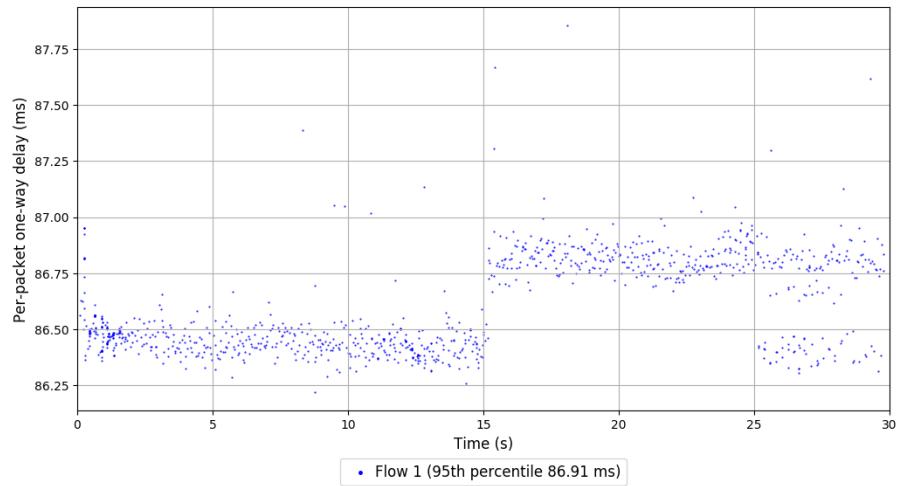
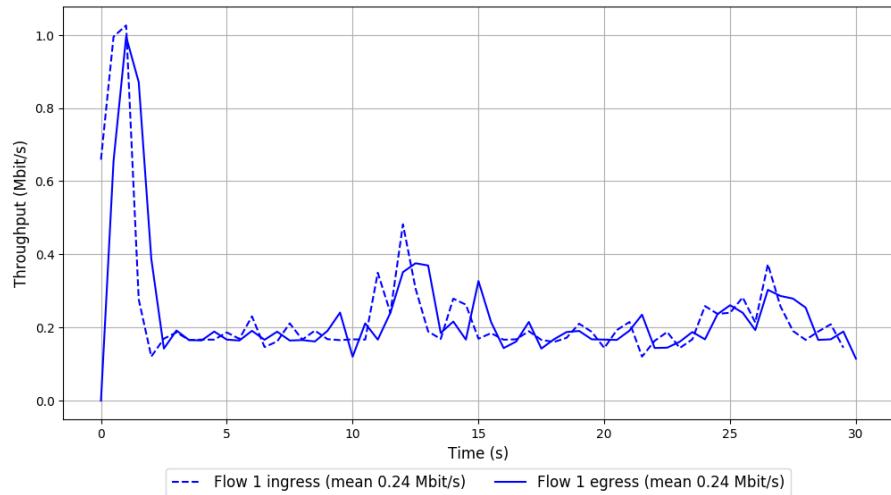


Run 8: Statistics of Sprout

```
Start at: 2018-05-30 21:17:19
End at: 2018-05-30 21:17:49
Local clock offset: 0.792 ms
Remote clock offset: 0.192 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.905 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.905 ms
Loss rate: 0.52%
```

Run 8: Report of Sprout — Data Link

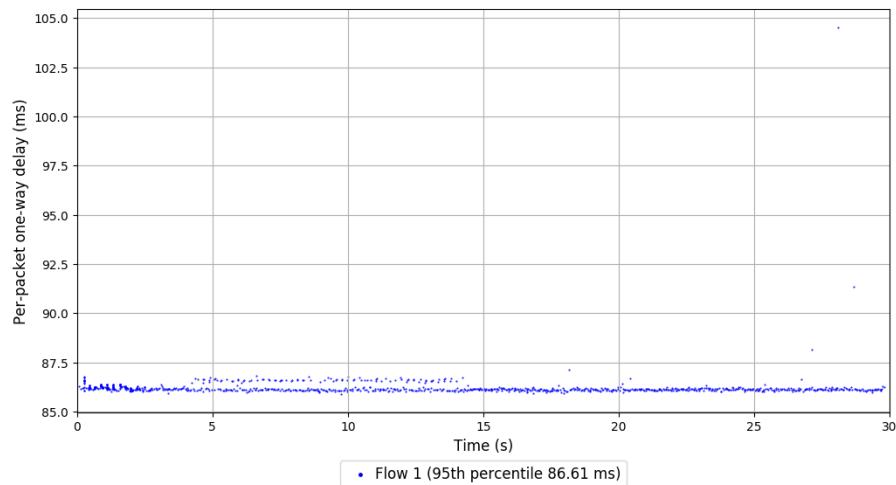
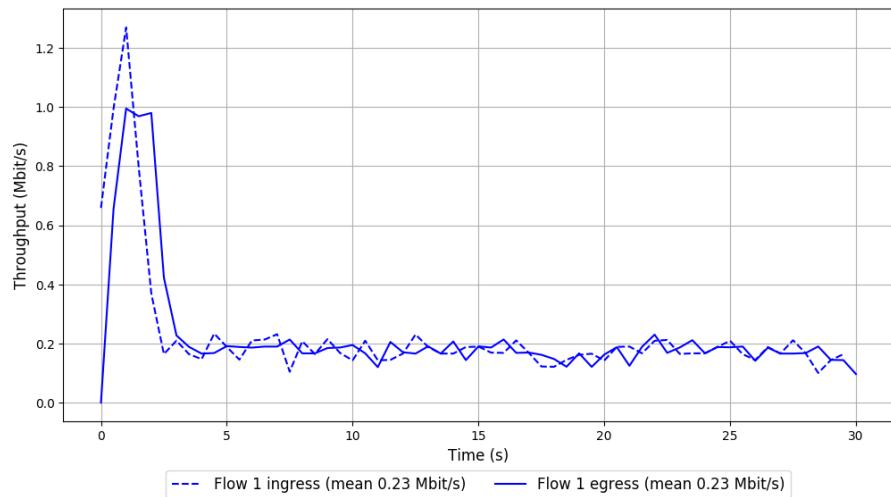


Run 9: Statistics of Sprout

```
Start at: 2018-05-30 21:37:50
End at: 2018-05-30 21:38:20
Local clock offset: 0.809 ms
Remote clock offset: 0.257 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.611 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.611 ms
Loss rate: 0.50%
```

Run 9: Report of Sprout — Data Link

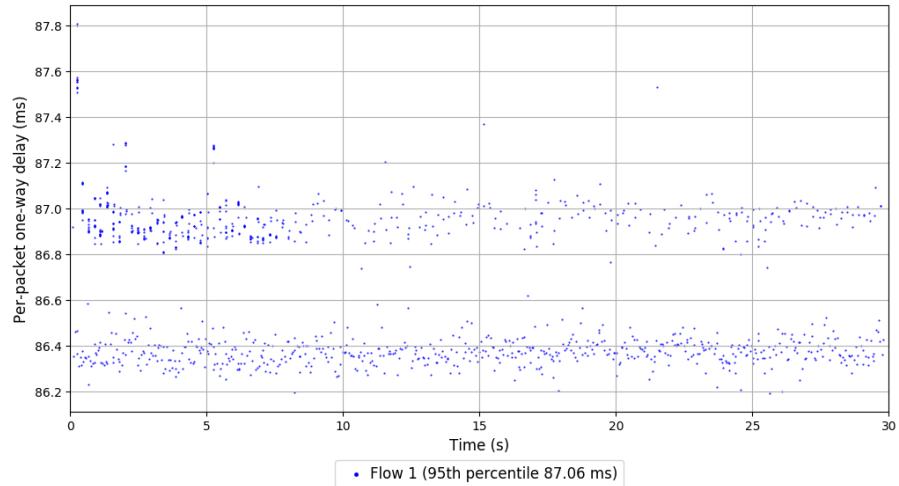
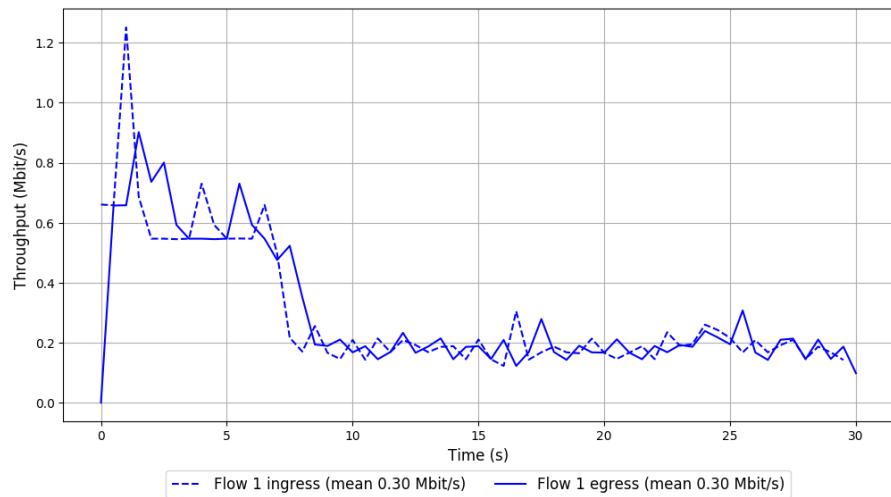


Run 10: Statistics of Sprout

```
Start at: 2018-05-30 21:58:24
End at: 2018-05-30 21:58:54
Local clock offset: 0.149 ms
Remote clock offset: 0.302 ms

# Below is generated by plot.py at 2018-05-30 23:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 87.061 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 87.061 ms
Loss rate: 0.39%
```

Run 10: Report of Sprout — Data Link

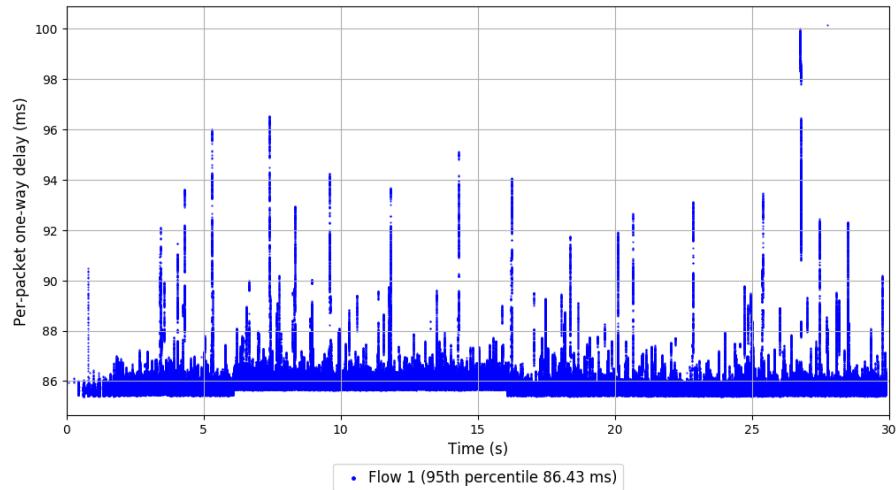
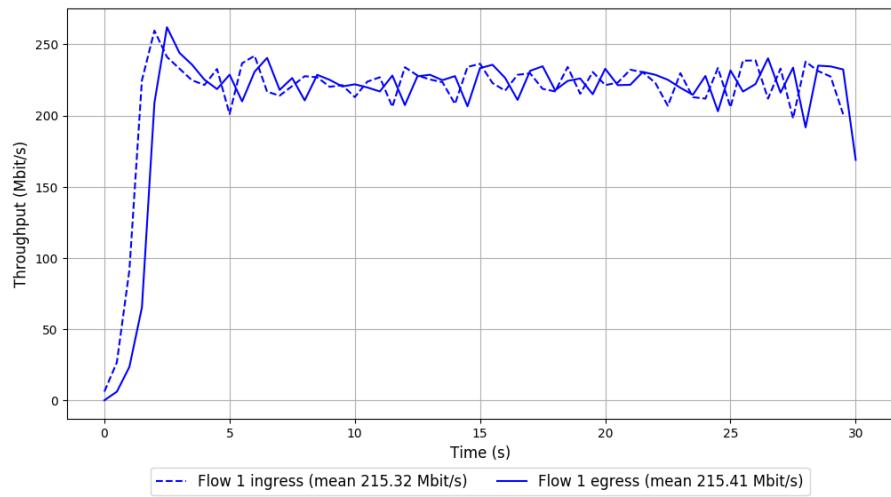


Run 1: Statistics of TaoVA-100x

```
Start at: 2018-05-30 19:09:18
End at: 2018-05-30 19:09:48
Local clock offset: 4.281 ms
Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-05-30 23:19:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.41 Mbit/s
95th percentile per-packet one-way delay: 86.430 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 215.41 Mbit/s
95th percentile per-packet one-way delay: 86.430 ms
Loss rate: 0.54%
```

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

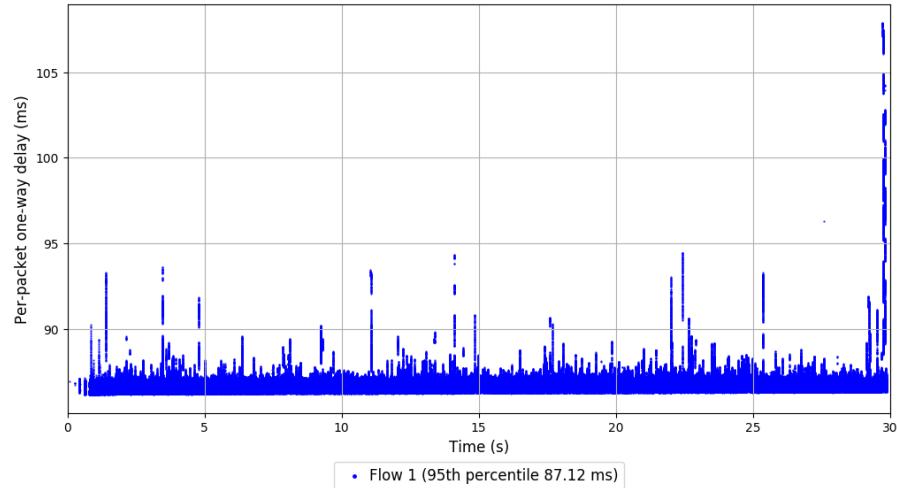
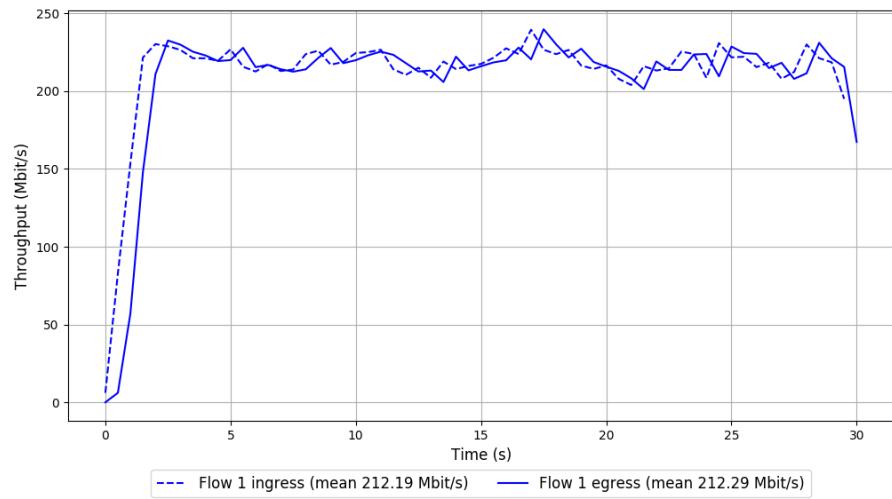


Run 2: Statistics of TaoVA-100x

```
Start at: 2018-05-30 19:29:29
End at: 2018-05-30 19:29:59
Local clock offset: 3.706 ms
Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2018-05-30 23:19:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.29 Mbit/s
95th percentile per-packet one-way delay: 87.124 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 212.29 Mbit/s
95th percentile per-packet one-way delay: 87.124 ms
Loss rate: 0.54%
```

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

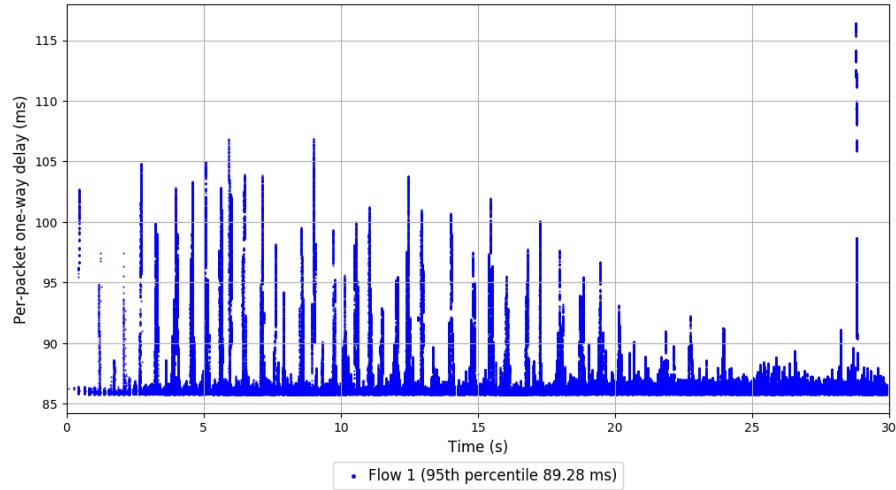
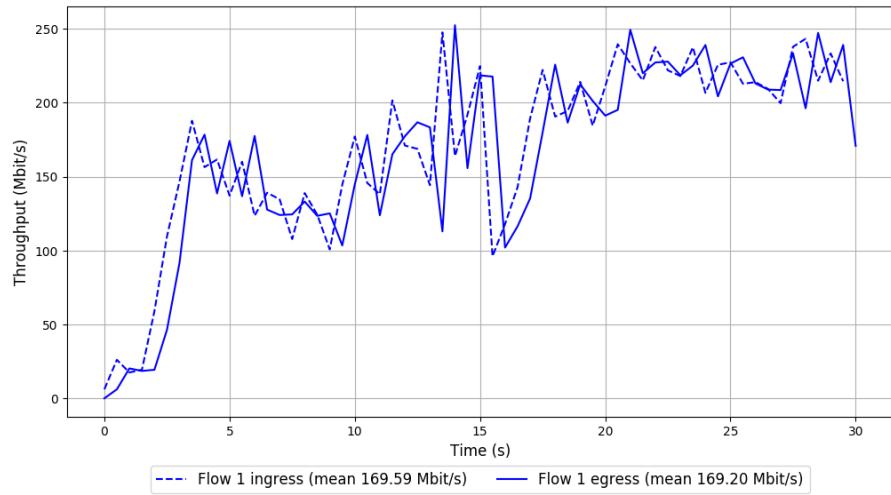


Run 3: Statistics of TaoVA-100x

```
Start at: 2018-05-30 19:50:05
End at: 2018-05-30 19:50:35
Local clock offset: 2.361 ms
Remote clock offset: 0.133 ms

# Below is generated by plot.py at 2018-05-30 23:19:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.20 Mbit/s
95th percentile per-packet one-way delay: 89.282 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 169.20 Mbit/s
95th percentile per-packet one-way delay: 89.282 ms
Loss rate: 0.81%
```

Run 3: Report of TaoVA-100x — Data Link

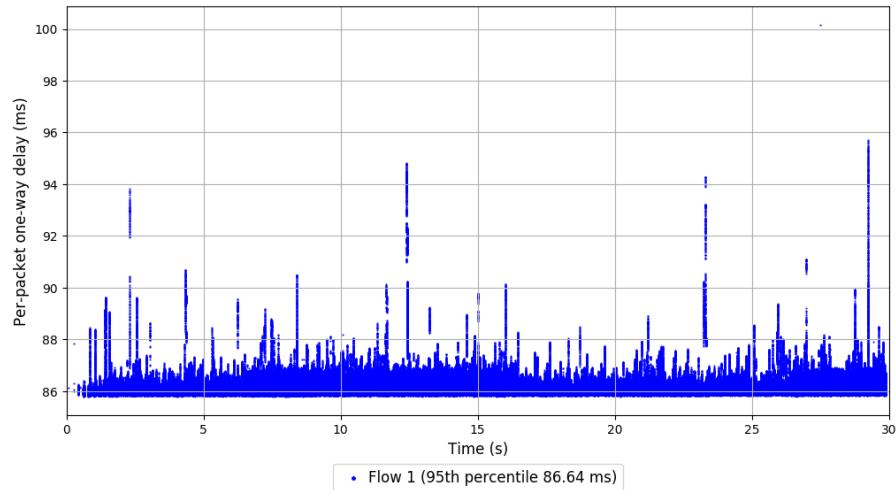
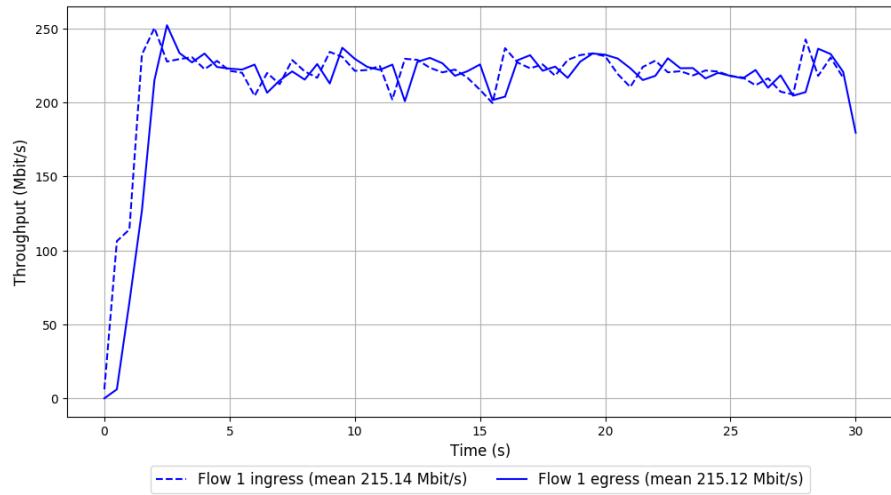


Run 4: Statistics of TaoVA-100x

```
Start at: 2018-05-30 20:10:38
End at: 2018-05-30 20:11:08
Local clock offset: 1.031 ms
Remote clock offset: 0.157 ms

# Below is generated by plot.py at 2018-05-30 23:20:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.12 Mbit/s
95th percentile per-packet one-way delay: 86.635 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 215.12 Mbit/s
95th percentile per-packet one-way delay: 86.635 ms
Loss rate: 0.59%
```

Run 4: Report of TaoVA-100x — Data Link

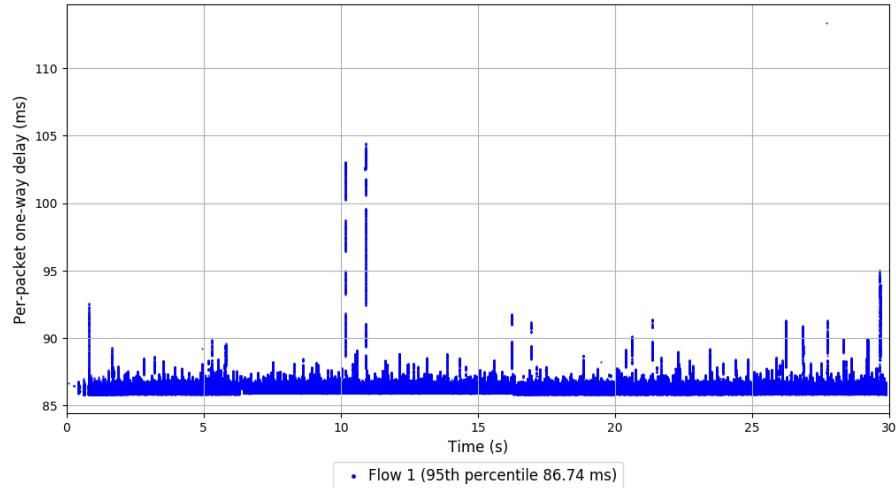
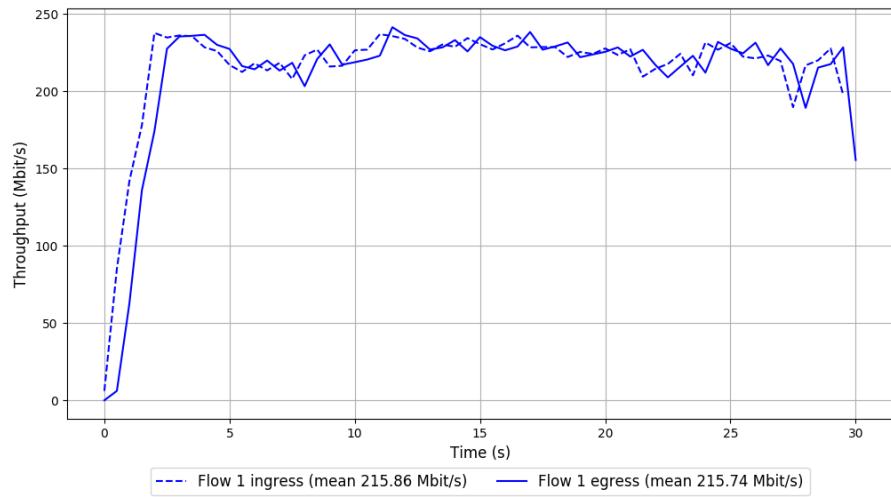


Run 5: Statistics of TaoVA-100x

```
Start at: 2018-05-30 20:31:08
End at: 2018-05-30 20:31:38
Local clock offset: 1.272 ms
Remote clock offset: 0.135 ms

# Below is generated by plot.py at 2018-05-30 23:20:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.74 Mbit/s
95th percentile per-packet one-way delay: 86.742 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 215.74 Mbit/s
95th percentile per-packet one-way delay: 86.742 ms
Loss rate: 0.63%
```

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

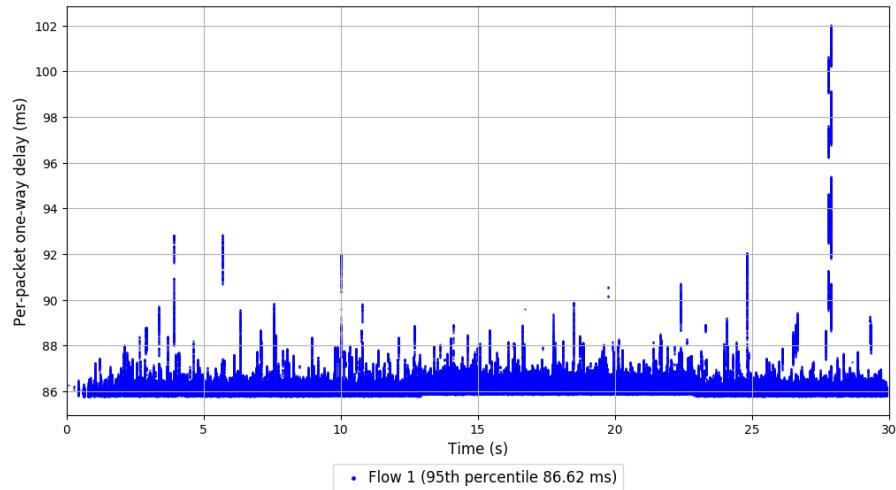
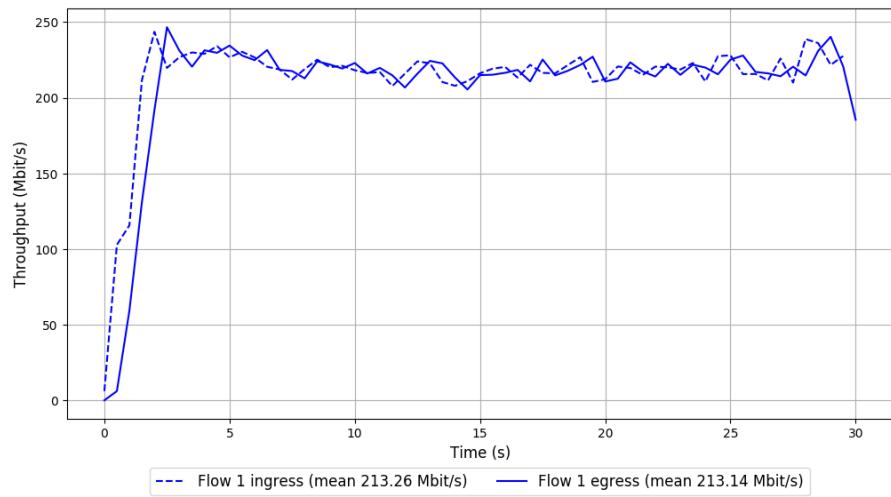


Run 6: Statistics of TaoVA-100x

```
Start at: 2018-05-30 20:51:41
End at: 2018-05-30 20:52:11
Local clock offset: 0.315 ms
Remote clock offset: 0.224 ms

# Below is generated by plot.py at 2018-05-30 23:20:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 213.14 Mbit/s
95th percentile per-packet one-way delay: 86.618 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 213.14 Mbit/s
95th percentile per-packet one-way delay: 86.618 ms
Loss rate: 0.64%
```

Run 6: Report of TaoVA-100x — Data Link

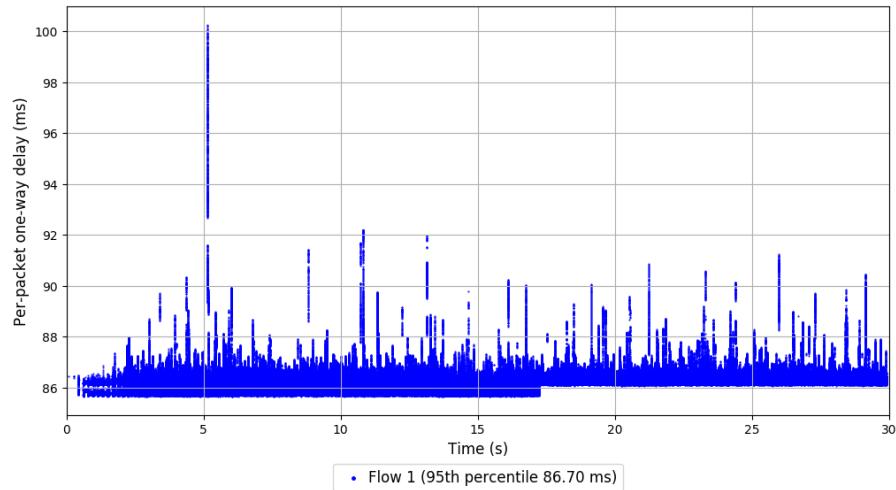
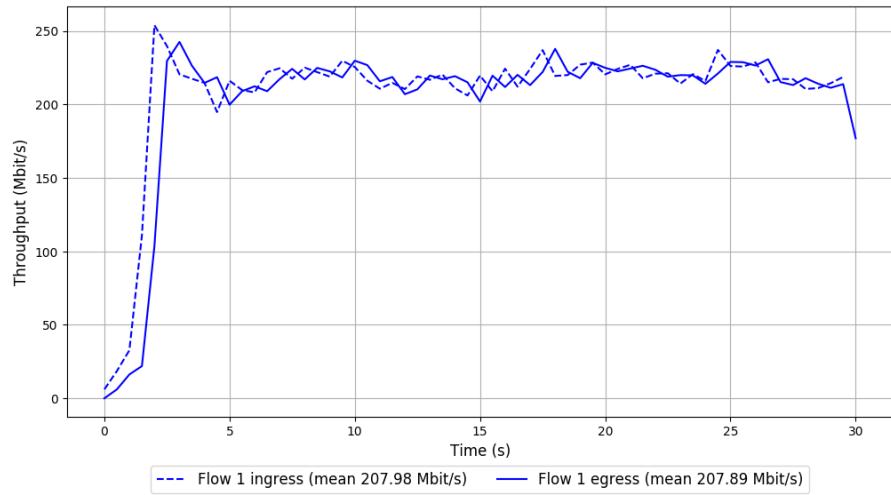


Run 7: Statistics of TaoVA-100x

```
Start at: 2018-05-30 21:11:57
End at: 2018-05-30 21:12:27
Local clock offset: 0.286 ms
Remote clock offset: 0.207 ms

# Below is generated by plot.py at 2018-05-30 23:20:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.89 Mbit/s
95th percentile per-packet one-way delay: 86.705 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 207.89 Mbit/s
95th percentile per-packet one-way delay: 86.705 ms
Loss rate: 0.63%
```

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

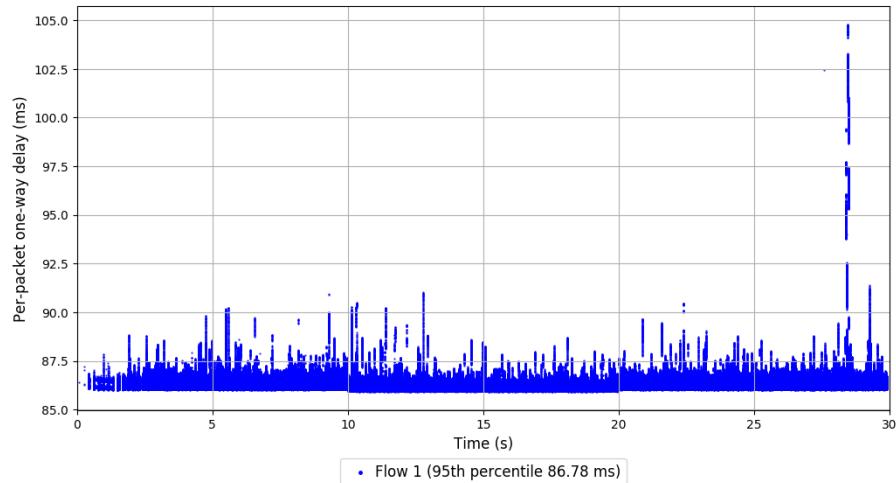
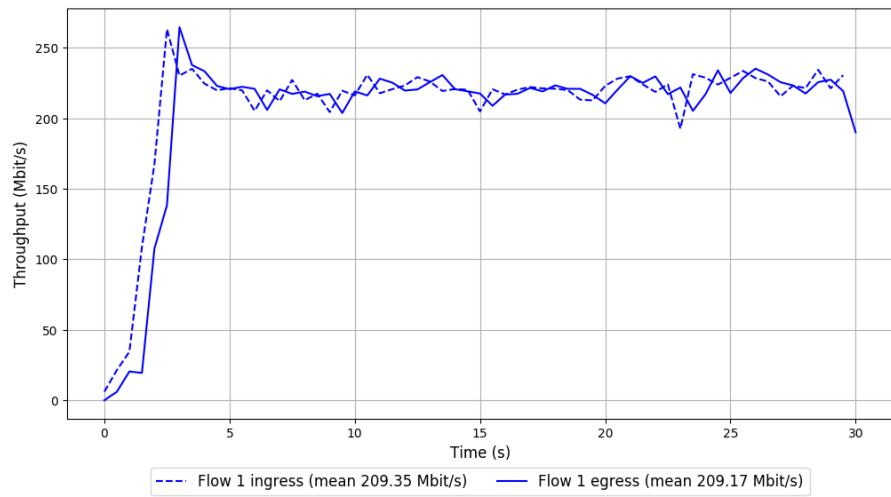


Run 8: Statistics of TaoVA-100x

```
Start at: 2018-05-30 21:32:24
End at: 2018-05-30 21:32:54
Local clock offset: 0.783 ms
Remote clock offset: 0.233 ms

# Below is generated by plot.py at 2018-05-30 23:24:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.17 Mbit/s
95th percentile per-packet one-way delay: 86.780 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 209.17 Mbit/s
95th percentile per-packet one-way delay: 86.780 ms
Loss rate: 0.66%
```

Run 8: Report of TaoVA-100x — Data Link

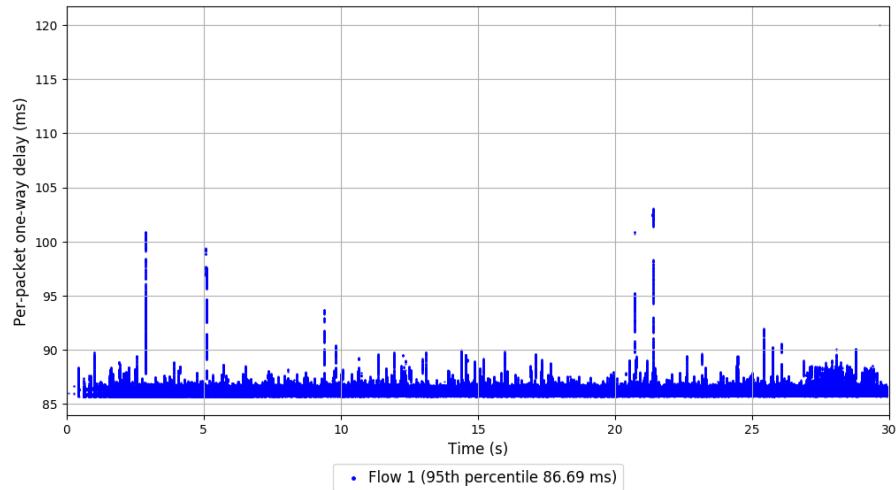
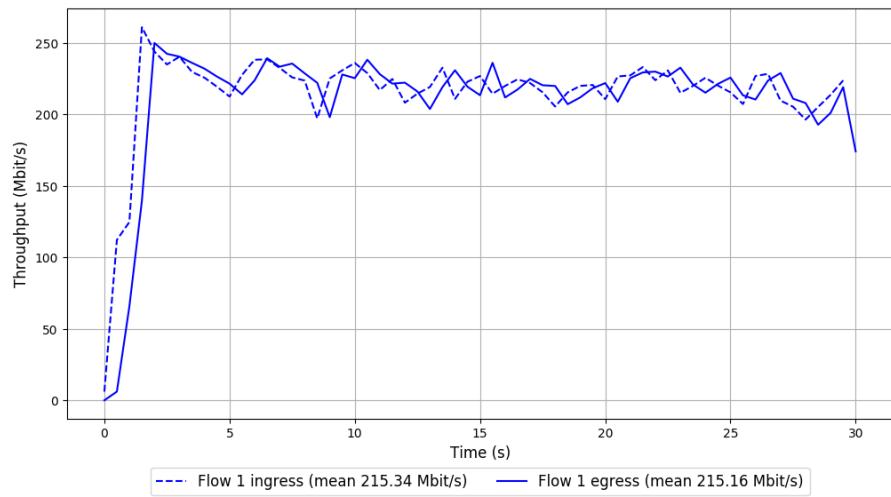


Run 9: Statistics of TaoVA-100x

```
Start at: 2018-05-30 21:52:57
End at: 2018-05-30 21:53:27
Local clock offset: -0.17 ms
Remote clock offset: 0.268 ms

# Below is generated by plot.py at 2018-05-30 23:25:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.16 Mbit/s
95th percentile per-packet one-way delay: 86.689 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 215.16 Mbit/s
95th percentile per-packet one-way delay: 86.689 ms
Loss rate: 0.66%
```

Run 9: Report of TaoVA-100x — Data Link

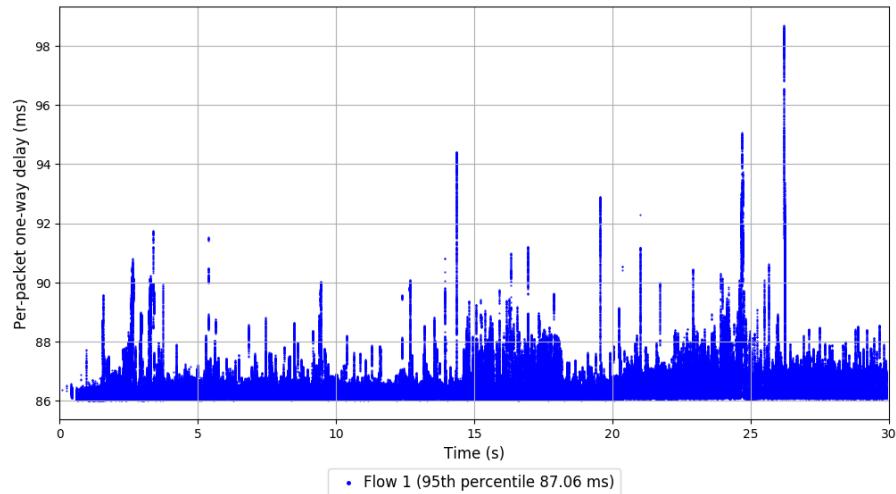
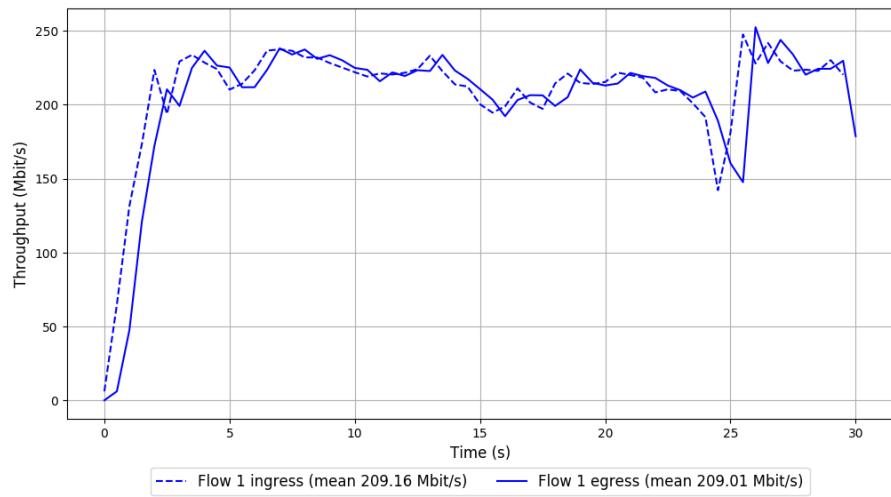


Run 10: Statistics of TaoVA-100x

```
Start at: 2018-05-30 22:13:24
End at: 2018-05-30 22:13:54
Local clock offset: -0.16 ms
Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2018-05-30 23:26:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.01 Mbit/s
95th percentile per-packet one-way delay: 87.060 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 209.01 Mbit/s
95th percentile per-packet one-way delay: 87.060 ms
Loss rate: 0.64%
```

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

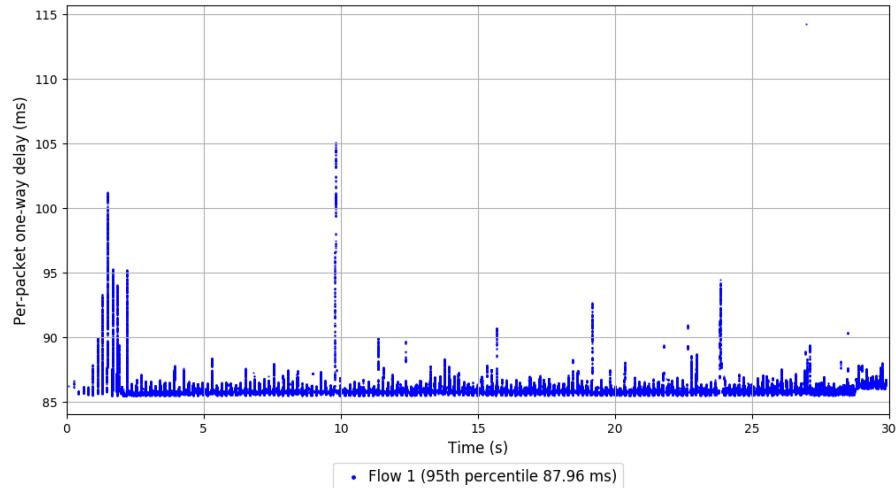
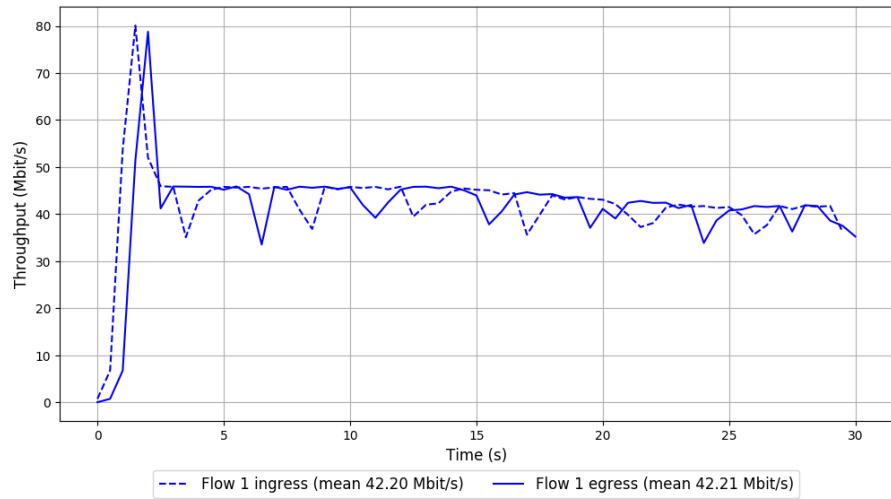


Run 1: Statistics of TCP Vegas

```
Start at: 2018-05-30 19:05:55
End at: 2018-05-30 19:06:25
Local clock offset: 4.355 ms
Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2018-05-30 23:26:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.21 Mbit/s
95th percentile per-packet one-way delay: 87.962 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 42.21 Mbit/s
95th percentile per-packet one-way delay: 87.962 ms
Loss rate: 0.55%
```

Run 1: Report of TCP Vegas — Data Link

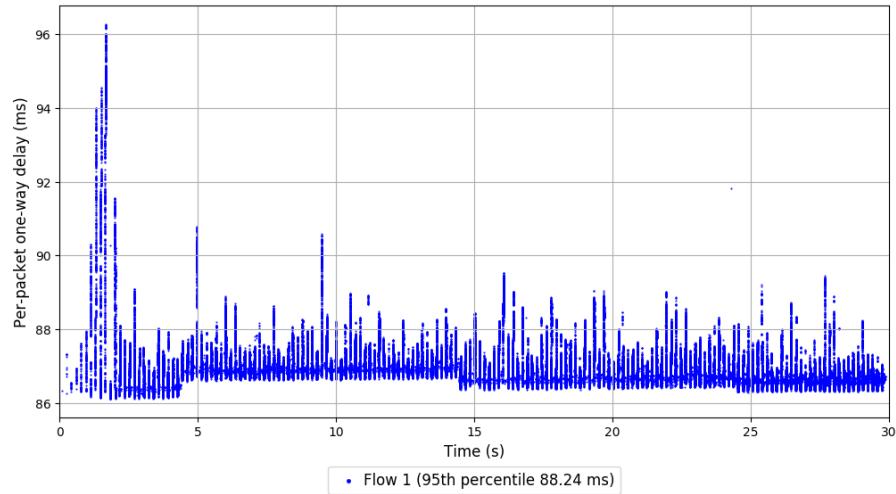
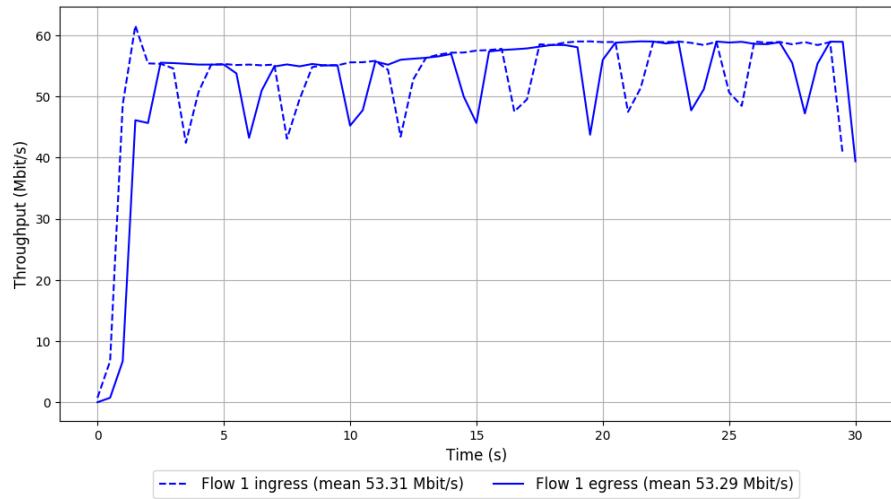


Run 2: Statistics of TCP Vegas

```
Start at: 2018-05-30 19:25:59
End at: 2018-05-30 19:26:30
Local clock offset: 4.959 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 88.240 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 53.29 Mbit/s
95th percentile per-packet one-way delay: 88.240 ms
Loss rate: 0.61%
```

Run 2: Report of TCP Vegas — Data Link

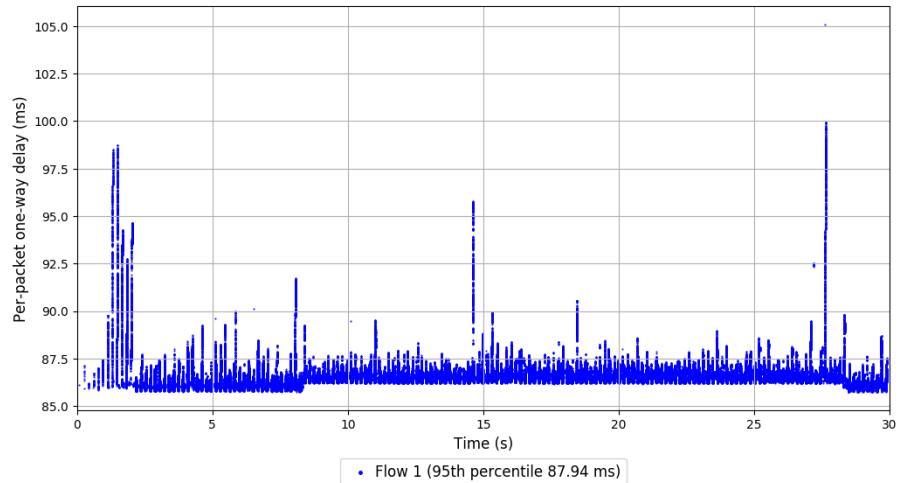
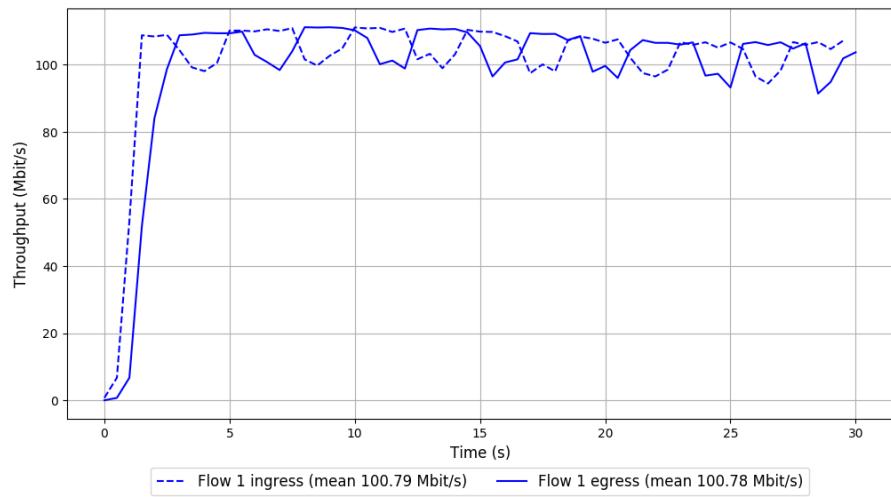


Run 3: Statistics of TCP Vegas

```
Start at: 2018-05-30 19:46:26
End at: 2018-05-30 19:46:56
Local clock offset: 2.151 ms
Remote clock offset: 0.114 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 100.78 Mbit/s
95th percentile per-packet one-way delay: 87.940 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 100.78 Mbit/s
95th percentile per-packet one-way delay: 87.940 ms
Loss rate: 0.59%
```

Run 3: Report of TCP Vegas — Data Link

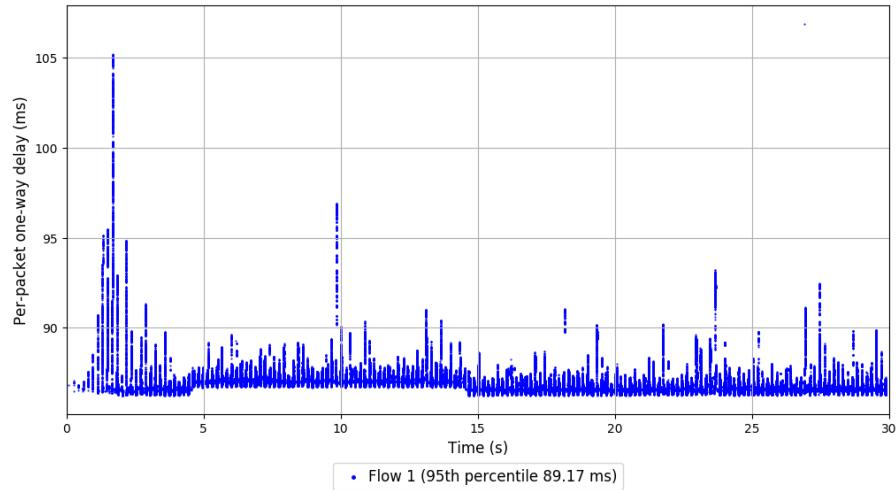
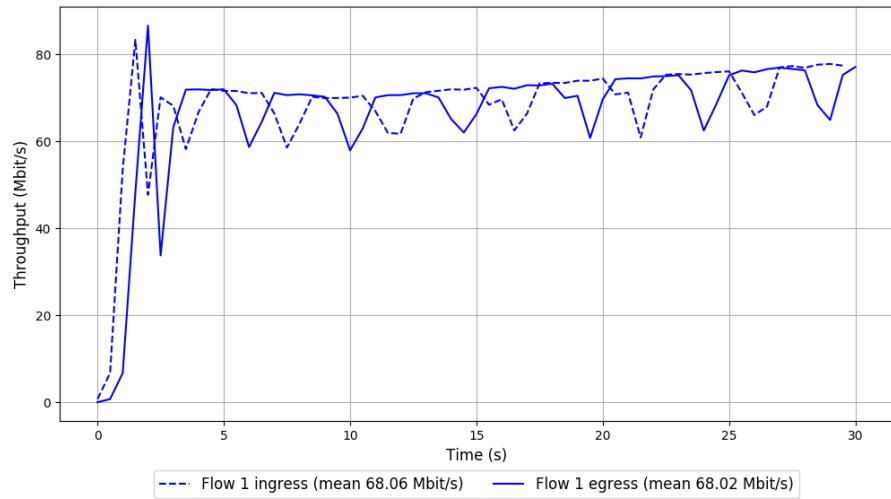


Run 4: Statistics of TCP Vegas

```
Start at: 2018-05-30 20:06:59
End at: 2018-05-30 20:07:29
Local clock offset: 1.624 ms
Remote clock offset: 0.155 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.02 Mbit/s
95th percentile per-packet one-way delay: 89.169 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 68.02 Mbit/s
95th percentile per-packet one-way delay: 89.169 ms
Loss rate: 0.64%
```

Run 4: Report of TCP Vegas — Data Link

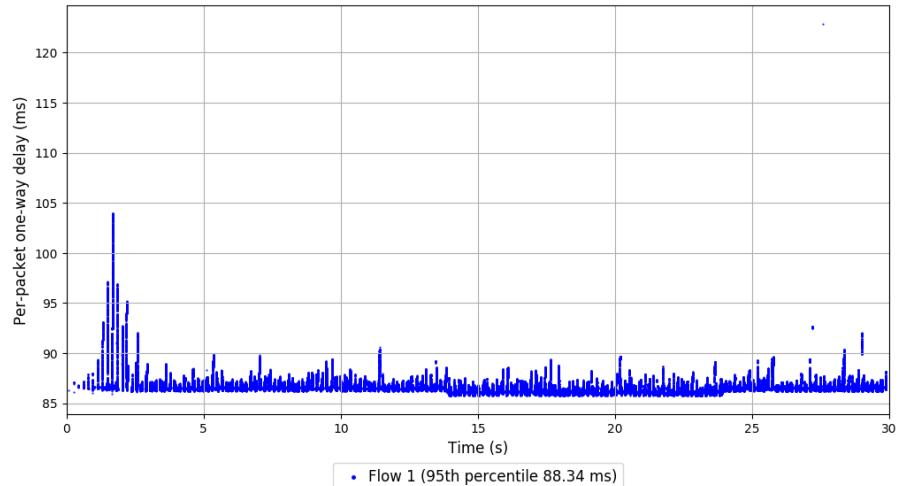
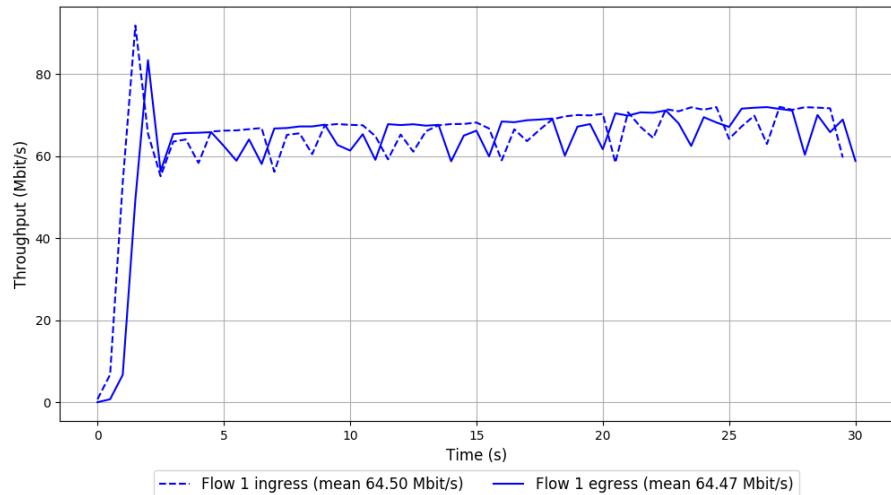


Run 5: Statistics of TCP Vegas

```
Start at: 2018-05-30 20:27:30
End at: 2018-05-30 20:28:00
Local clock offset: 1.1 ms
Remote clock offset: 0.159 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.47 Mbit/s
95th percentile per-packet one-way delay: 88.337 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 64.47 Mbit/s
95th percentile per-packet one-way delay: 88.337 ms
Loss rate: 0.62%
```

Run 5: Report of TCP Vegas — Data Link

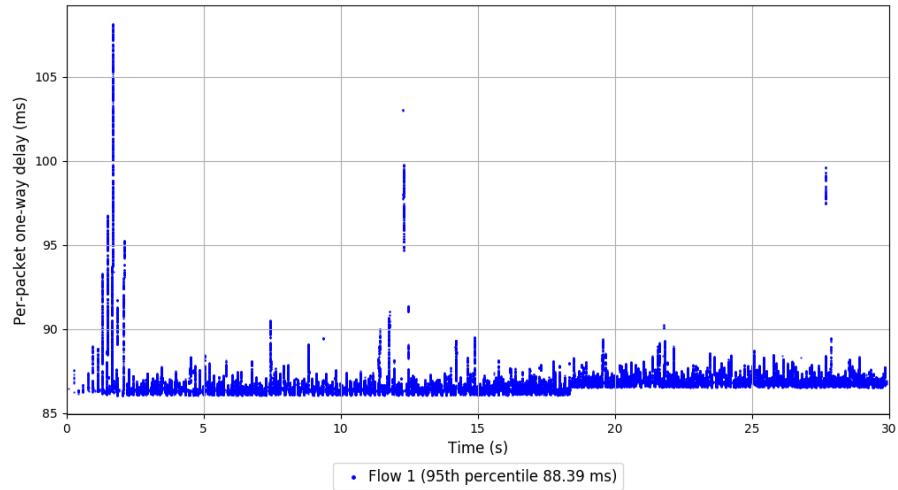
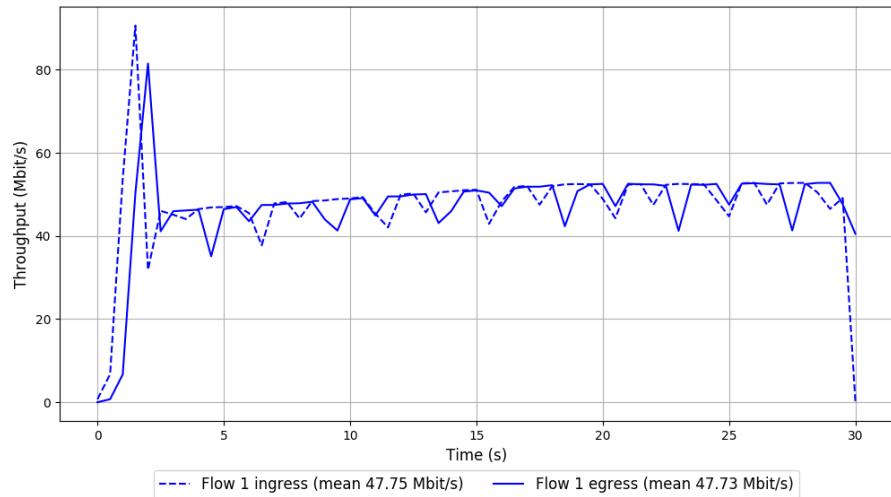


Run 6: Statistics of TCP Vegas

```
Start at: 2018-05-30 20:48:06
End at: 2018-05-30 20:48:36
Local clock offset: 0.593 ms
Remote clock offset: 0.213 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.73 Mbit/s
95th percentile per-packet one-way delay: 88.395 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 47.73 Mbit/s
95th percentile per-packet one-way delay: 88.395 ms
Loss rate: 0.61%
```

Run 6: Report of TCP Vegas — Data Link

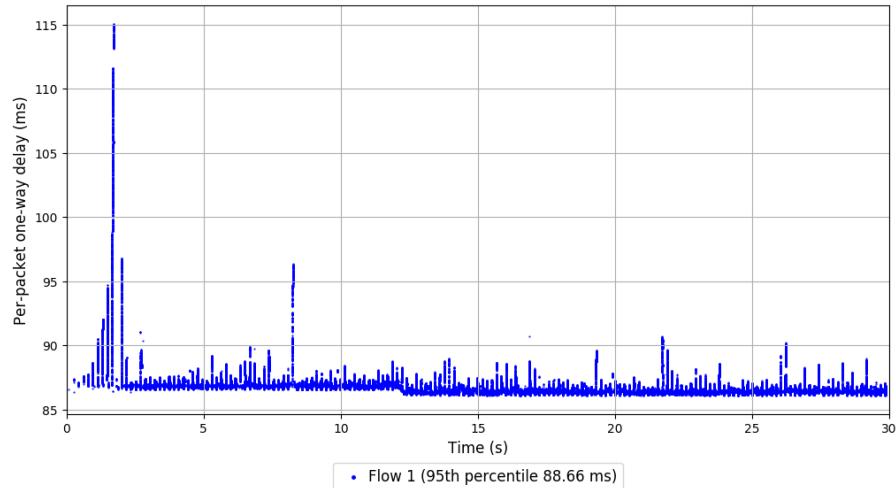
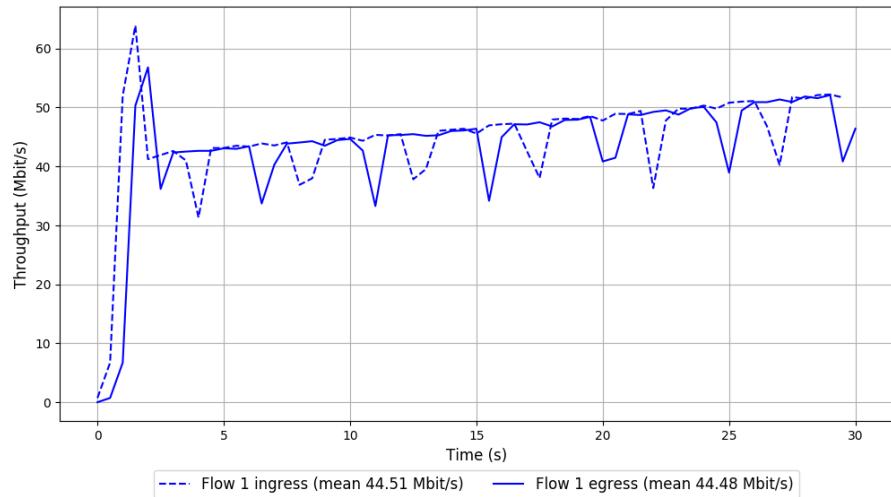


Run 7: Statistics of TCP Vegas

```
Start at: 2018-05-30 21:08:22
End at: 2018-05-30 21:08:52
Local clock offset: 0.692 ms
Remote clock offset: 0.205 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.48 Mbit/s
95th percentile per-packet one-way delay: 88.657 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 44.48 Mbit/s
95th percentile per-packet one-way delay: 88.657 ms
Loss rate: 0.65%
```

Run 7: Report of TCP Vegas — Data Link

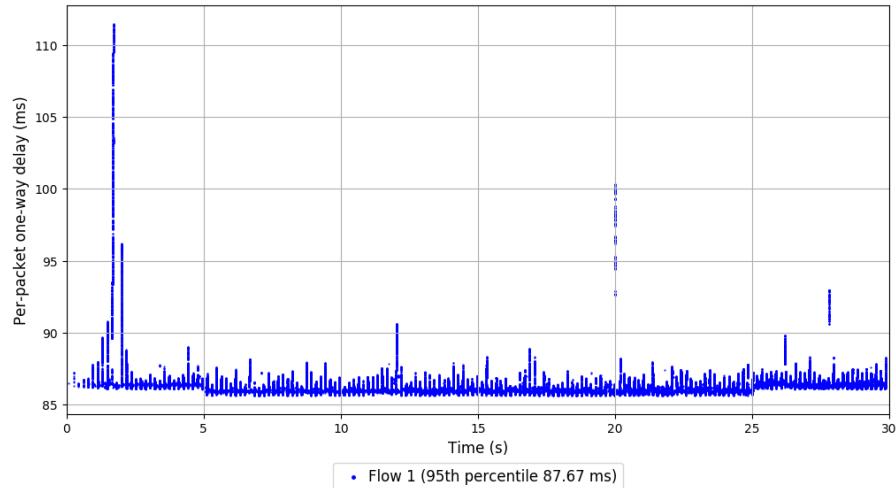
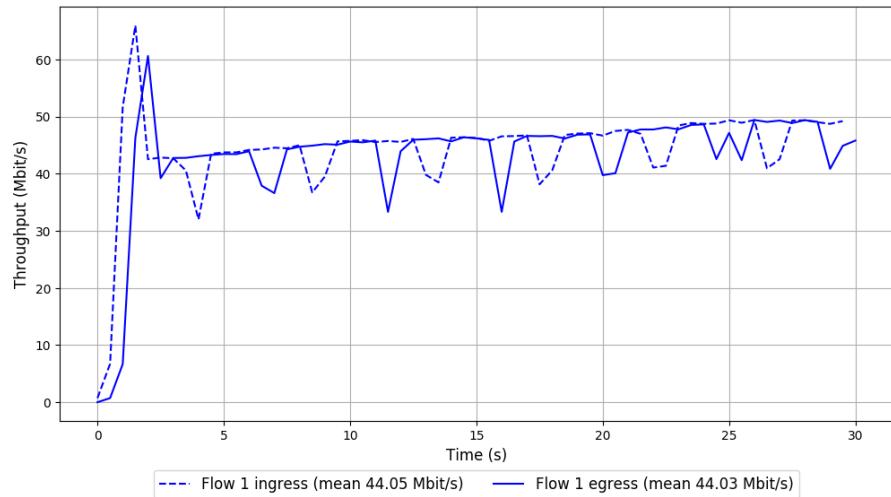


Run 8: Statistics of TCP Vegas

```
Start at: 2018-05-30 21:28:49
End at: 2018-05-30 21:29:19
Local clock offset: 0.473 ms
Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.03 Mbit/s
95th percentile per-packet one-way delay: 87.666 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 44.03 Mbit/s
95th percentile per-packet one-way delay: 87.666 ms
Loss rate: 0.63%
```

Run 8: Report of TCP Vegas — Data Link

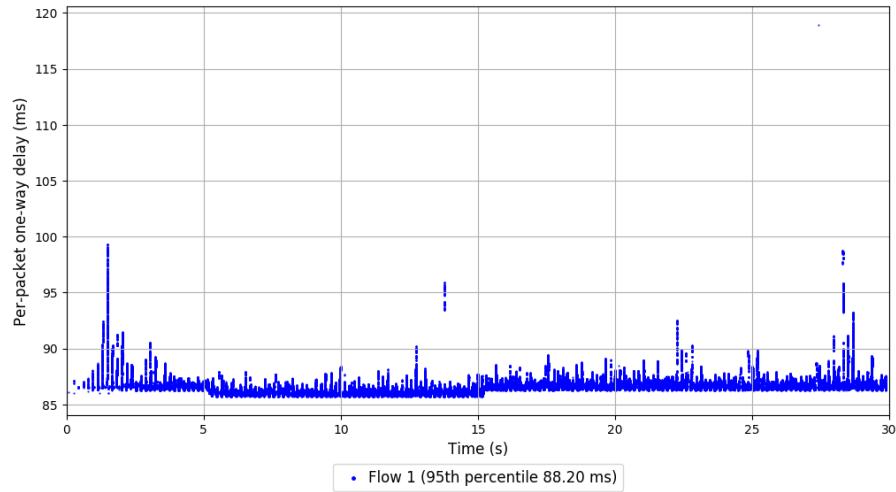
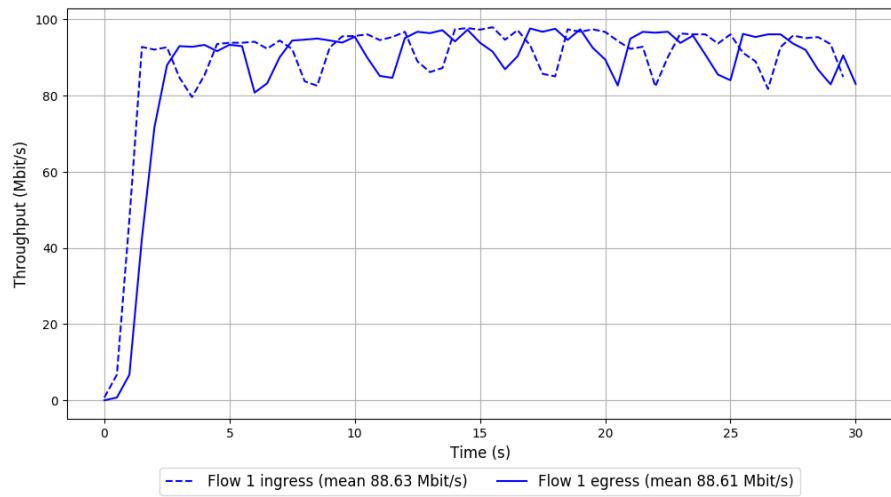


Run 9: Statistics of TCP Vegas

```
Start at: 2018-05-30 21:49:19
End at: 2018-05-30 21:49:49
Local clock offset: -0.054 ms
Remote clock offset: 0.265 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 88.200 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 88.61 Mbit/s
95th percentile per-packet one-way delay: 88.200 ms
Loss rate: 0.60%
```

Run 9: Report of TCP Vegas — Data Link

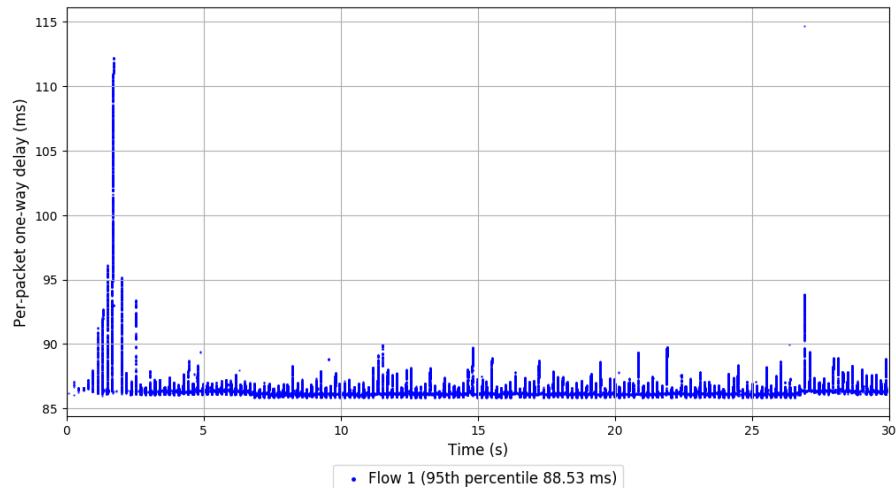
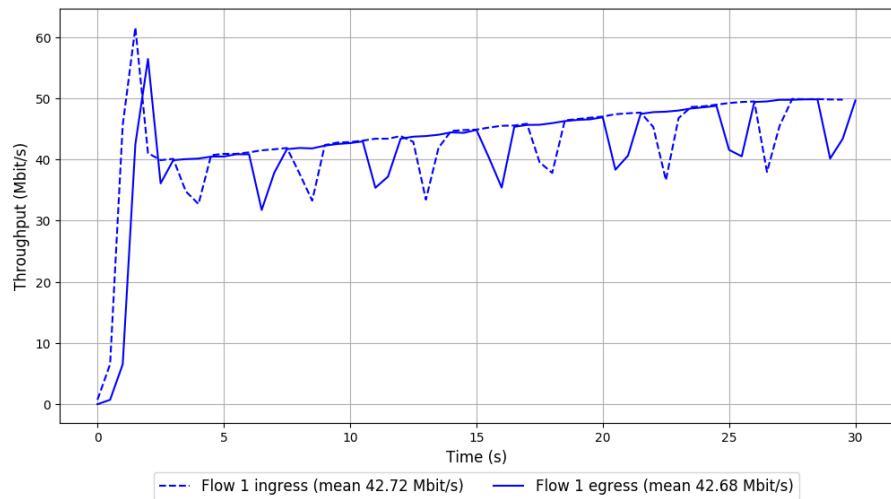


Run 10: Statistics of TCP Vegas

```
Start at: 2018-05-30 22:09:47
End at: 2018-05-30 22:10:17
Local clock offset: -0.306 ms
Remote clock offset: 0.303 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.68 Mbit/s
95th percentile per-packet one-way delay: 88.533 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 42.68 Mbit/s
95th percentile per-packet one-way delay: 88.533 ms
Loss rate: 0.65%
```

Run 10: Report of TCP Vegas — Data Link

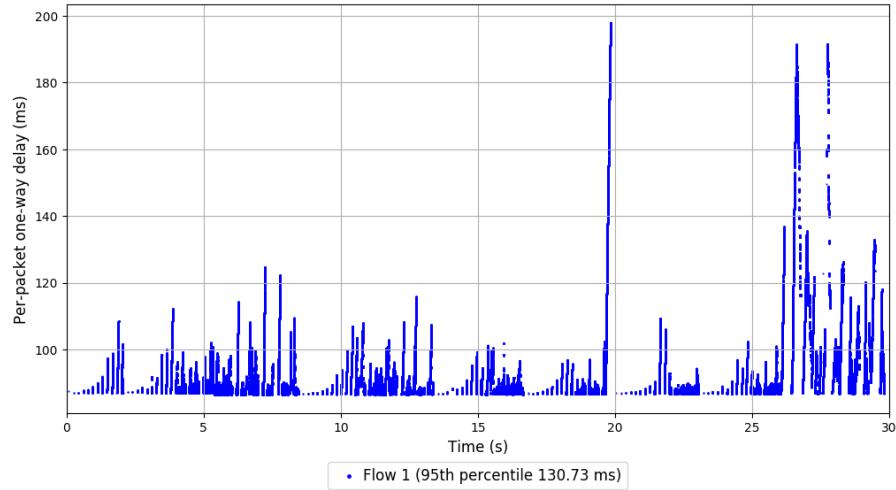
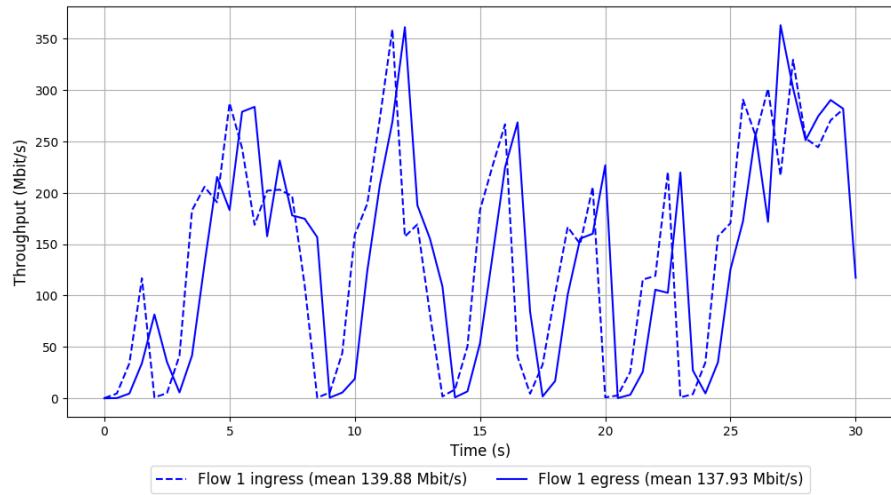


Run 1: Statistics of Verus

```
Start at: 2018-05-30 18:51:48
End at: 2018-05-30 18:52:18
Local clock offset: 10.065 ms
Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.93 Mbit/s
95th percentile per-packet one-way delay: 130.726 ms
Loss rate: 1.96%
-- Flow 1:
Average throughput: 137.93 Mbit/s
95th percentile per-packet one-way delay: 130.726 ms
Loss rate: 1.96%
```

Run 1: Report of Verus — Data Link

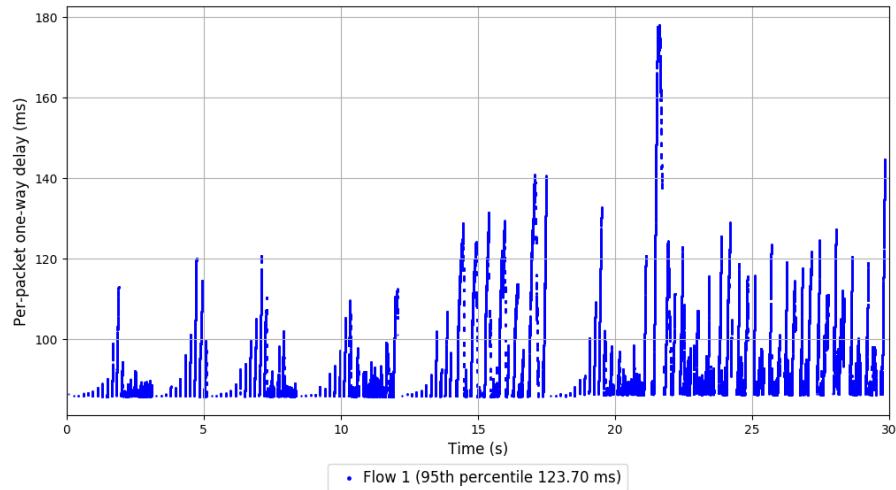
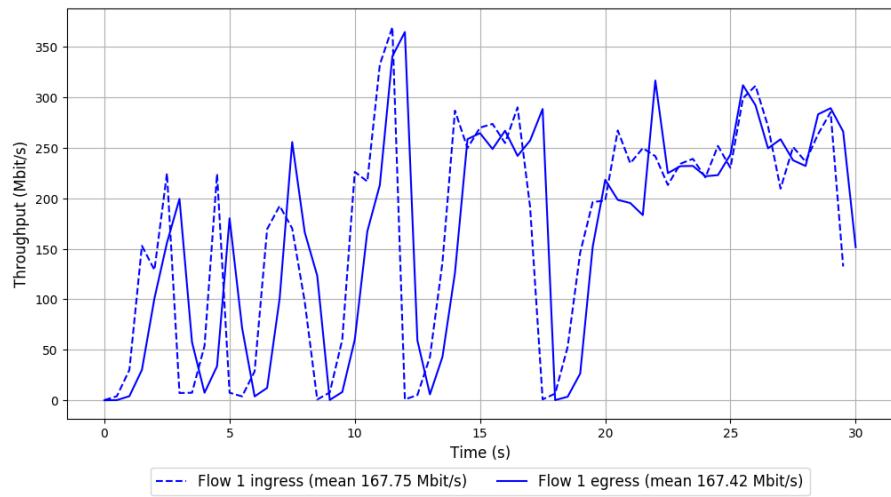


Run 2: Statistics of Verus

```
Start at: 2018-05-30 19:11:55
End at: 2018-05-30 19:12:25
Local clock offset: 4.801 ms
Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.42 Mbit/s
95th percentile per-packet one-way delay: 123.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 167.42 Mbit/s
95th percentile per-packet one-way delay: 123.701 ms
Loss rate: 0.00%
```

Run 2: Report of Verus — Data Link

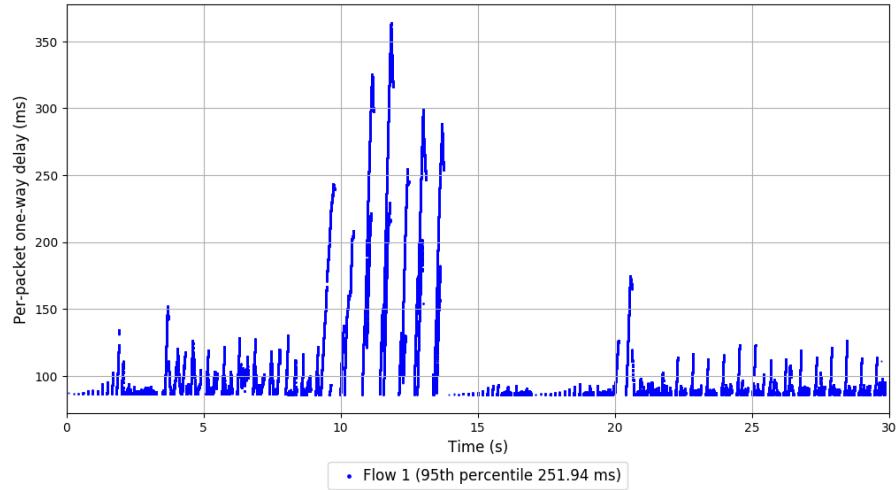
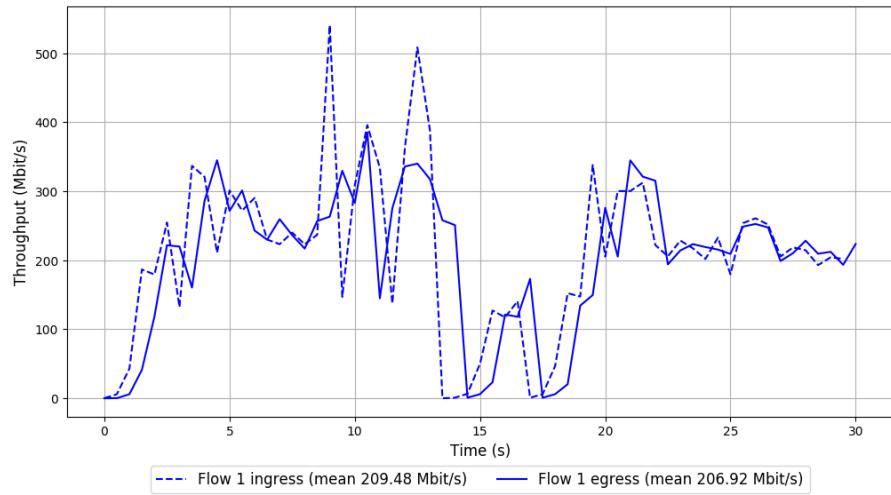


Run 3: Statistics of Verus

```
Start at: 2018-05-30 19:32:06
End at: 2018-05-30 19:32:36
Local clock offset: 2.774 ms
Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.92 Mbit/s
95th percentile per-packet one-way delay: 251.935 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 206.92 Mbit/s
95th percentile per-packet one-way delay: 251.935 ms
Loss rate: 1.92%
```

Run 3: Report of Verus — Data Link

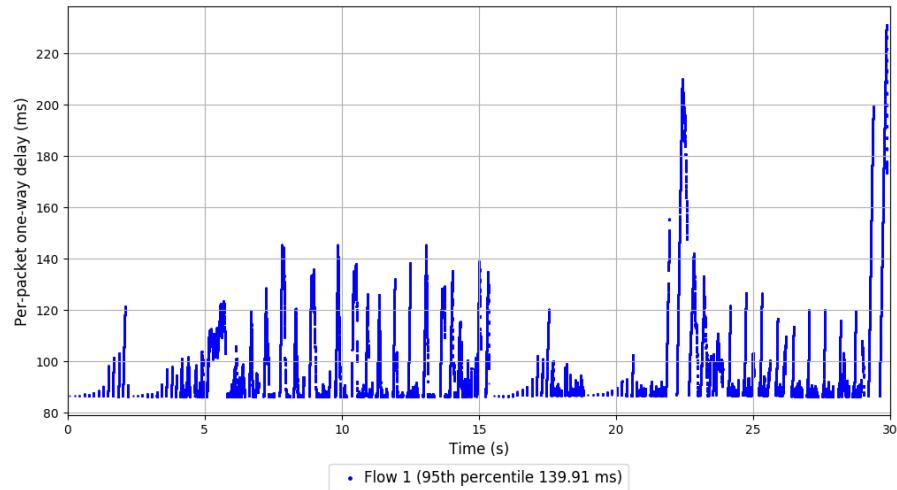
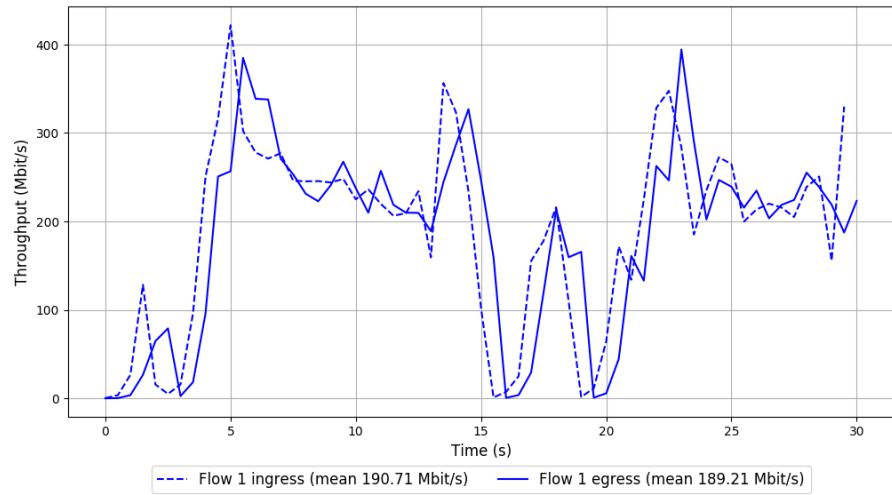


Run 4: Statistics of Verus

```
Start at: 2018-05-30 19:52:38
End at: 2018-05-30 19:53:08
Local clock offset: 2.832 ms
Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-05-30 23:26:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.21 Mbit/s
95th percentile per-packet one-way delay: 139.910 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 189.21 Mbit/s
95th percentile per-packet one-way delay: 139.910 ms
Loss rate: 0.94%
```

Run 4: Report of Verus — Data Link

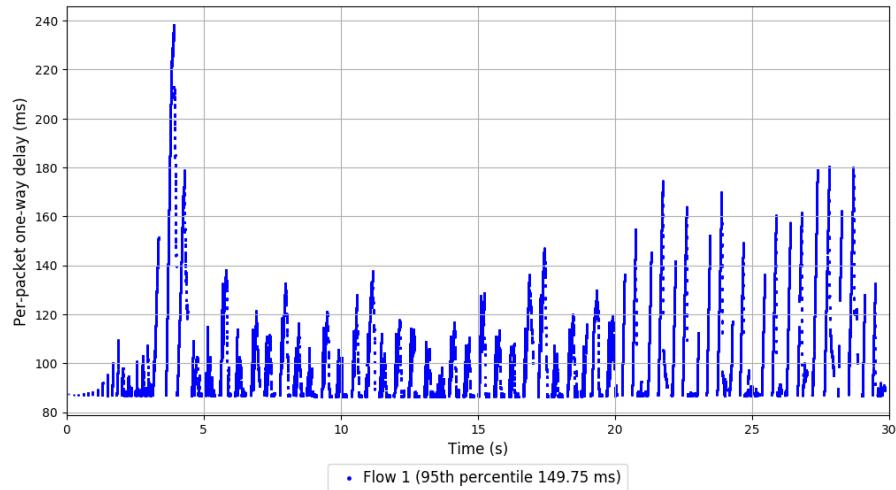
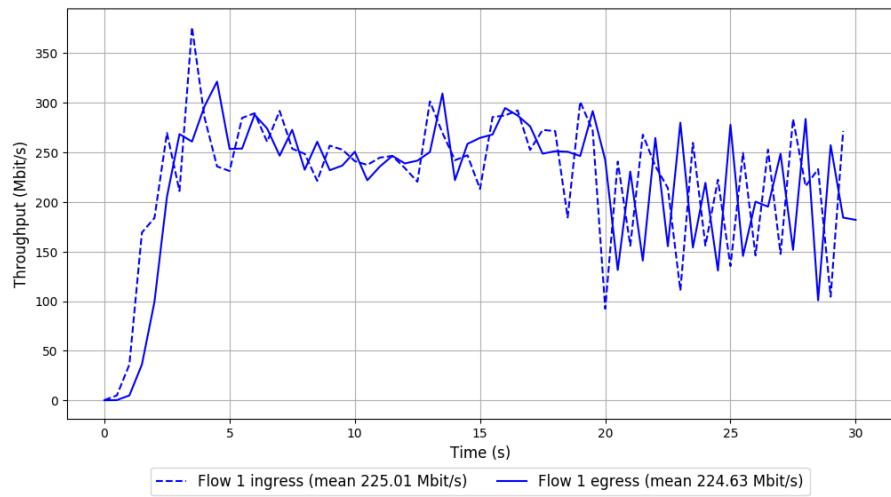


Run 5: Statistics of Verus

```
Start at: 2018-05-30 20:13:15
End at: 2018-05-30 20:13:45
Local clock offset: 1.411 ms
Remote clock offset: 0.125 ms

# Below is generated by plot.py at 2018-05-30 23:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.63 Mbit/s
95th percentile per-packet one-way delay: 149.750 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 224.63 Mbit/s
95th percentile per-packet one-way delay: 149.750 ms
Loss rate: 0.75%
```

Run 5: Report of Verus — Data Link

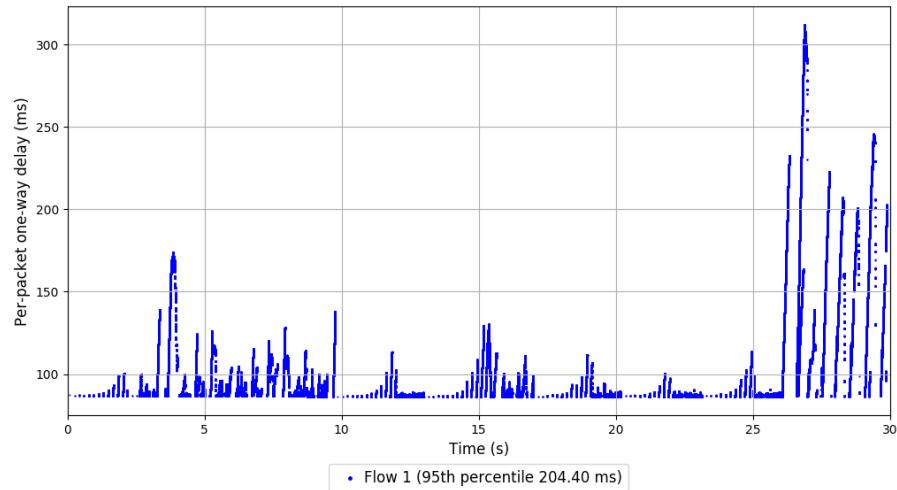
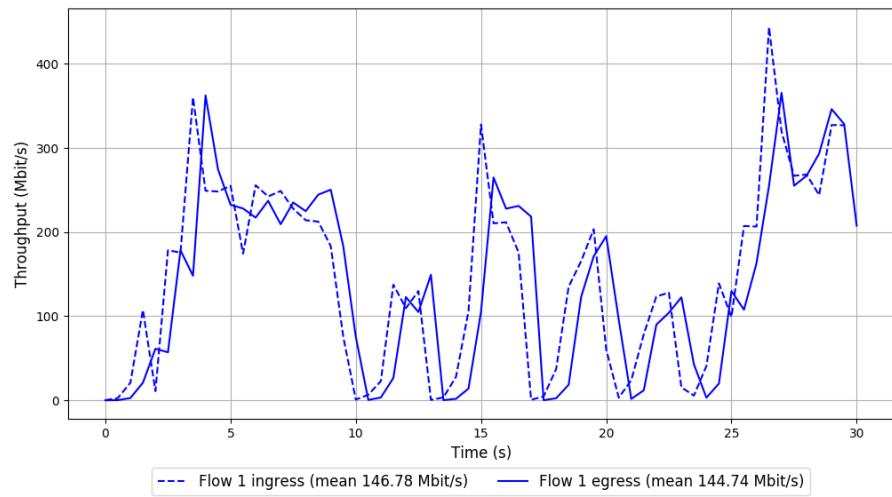


Run 6: Statistics of Verus

```
Start at: 2018-05-30 20:33:45
End at: 2018-05-30 20:34:15
Local clock offset: 1.409 ms
Remote clock offset: 0.167 ms

# Below is generated by plot.py at 2018-05-30 23:27:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.74 Mbit/s
95th percentile per-packet one-way delay: 204.395 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 144.74 Mbit/s
95th percentile per-packet one-way delay: 204.395 ms
Loss rate: 1.74%
```

Run 6: Report of Verus — Data Link

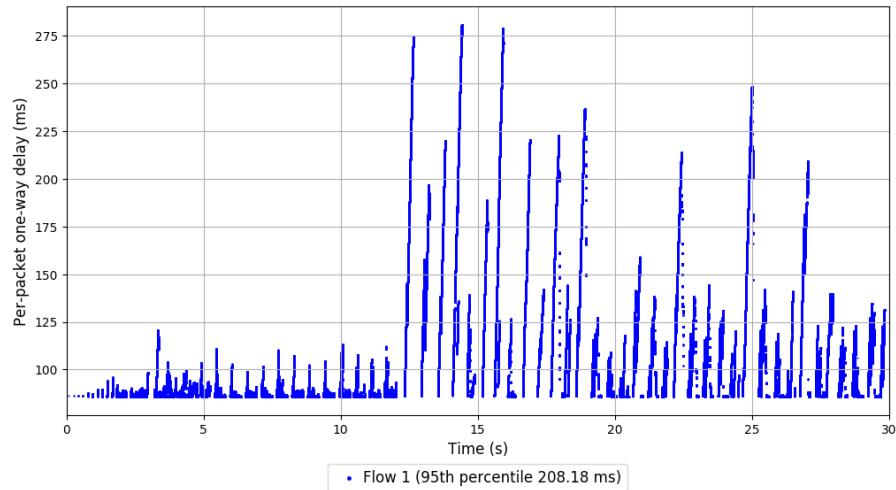
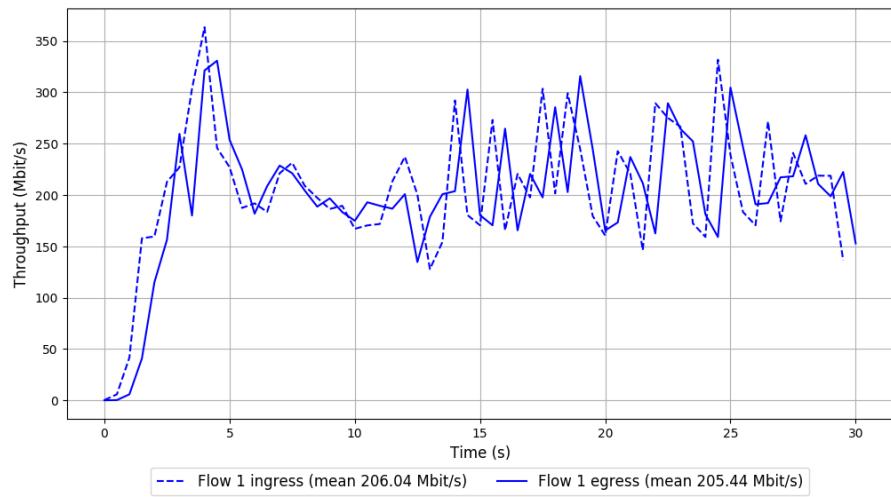


Run 7: Statistics of Verus

```
Start at: 2018-05-30 20:54:19
End at: 2018-05-30 20:54:49
Local clock offset: 0.304 ms
Remote clock offset: 0.214 ms

# Below is generated by plot.py at 2018-05-30 23:28:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.44 Mbit/s
95th percentile per-packet one-way delay: 208.182 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 205.44 Mbit/s
95th percentile per-packet one-way delay: 208.182 ms
Loss rate: 0.14%
```

Run 7: Report of Verus — Data Link

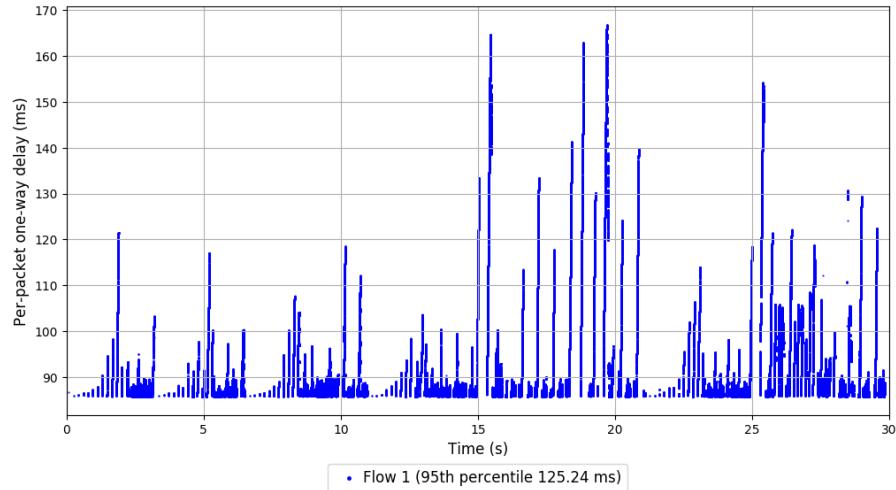
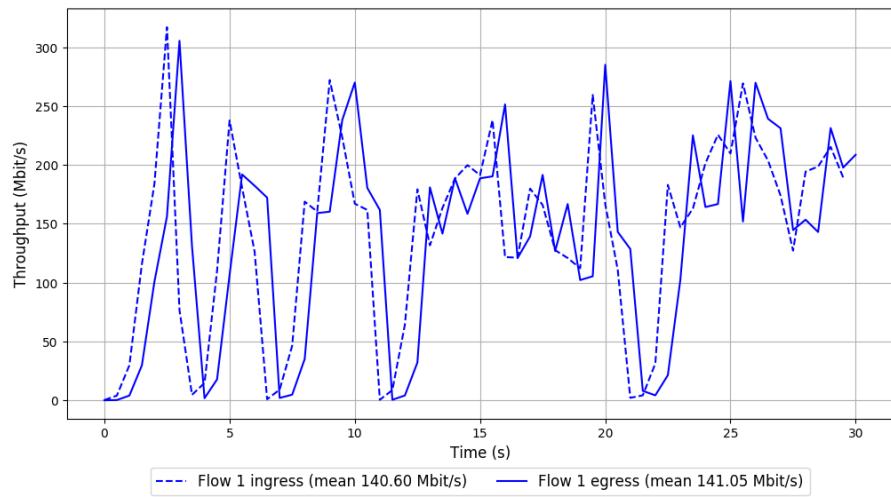


Run 8: Statistics of Verus

```
Start at: 2018-05-30 21:14:34
End at: 2018-05-30 21:15:04
Local clock offset: 0.431 ms
Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2018-05-30 23:28:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.05 Mbit/s
95th percentile per-packet one-way delay: 125.239 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 141.05 Mbit/s
95th percentile per-packet one-way delay: 125.239 ms
Loss rate: 0.40%
```

Run 8: Report of Verus — Data Link

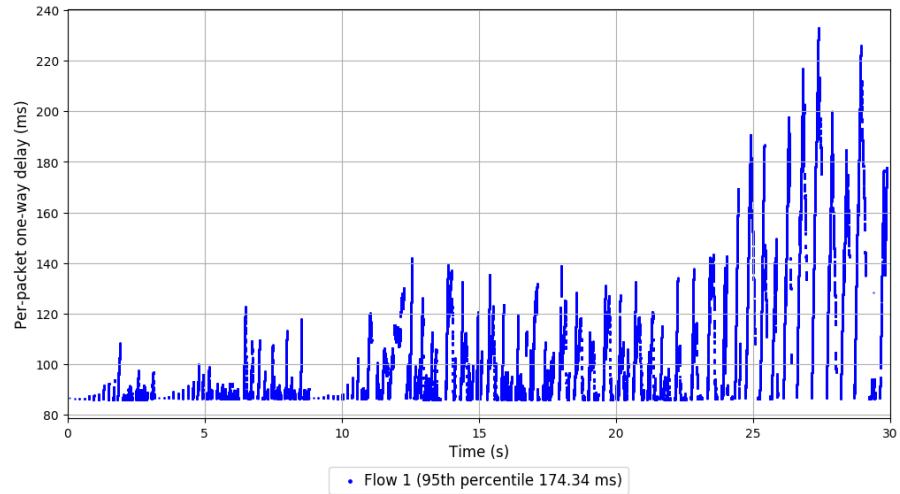
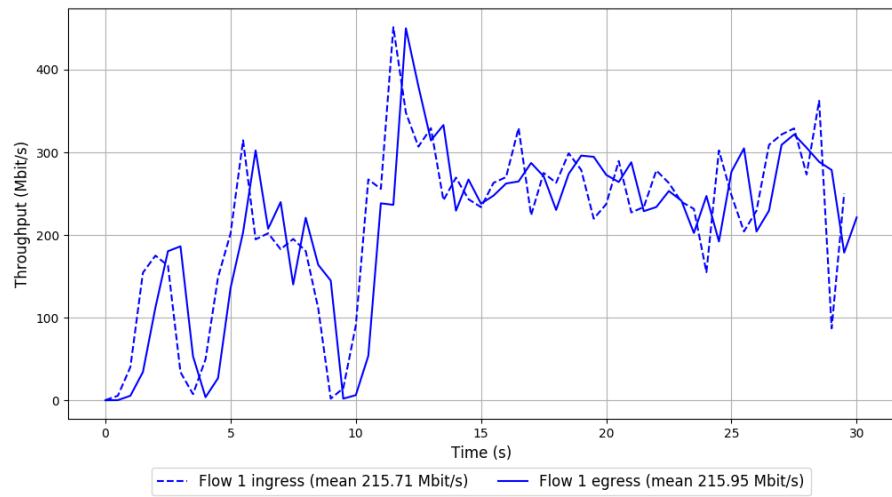


Run 9: Statistics of Verus

```
Start at: 2018-05-30 21:35:01
End at: 2018-05-30 21:35:31
Local clock offset: 0.905 ms
Remote clock offset: 0.262 ms

# Below is generated by plot.py at 2018-05-30 23:30:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.95 Mbit/s
95th percentile per-packet one-way delay: 174.337 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 215.95 Mbit/s
95th percentile per-packet one-way delay: 174.337 ms
Loss rate: 0.22%
```

Run 9: Report of Verus — Data Link

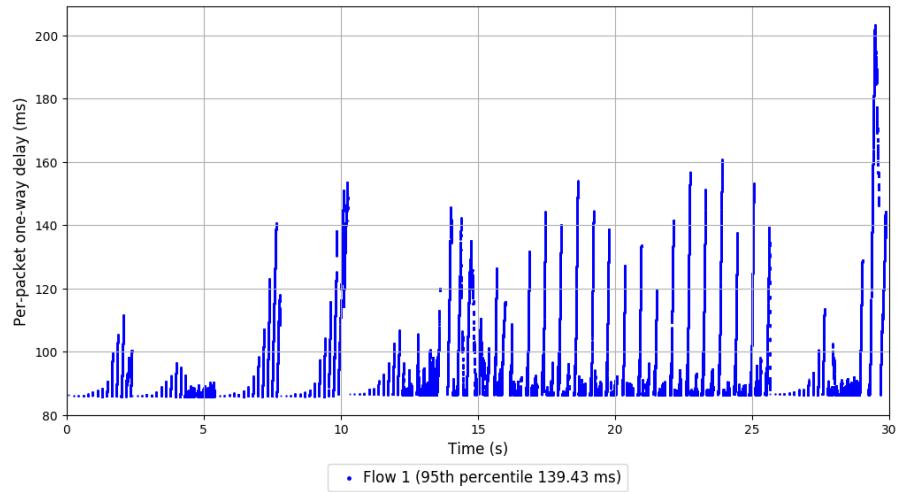
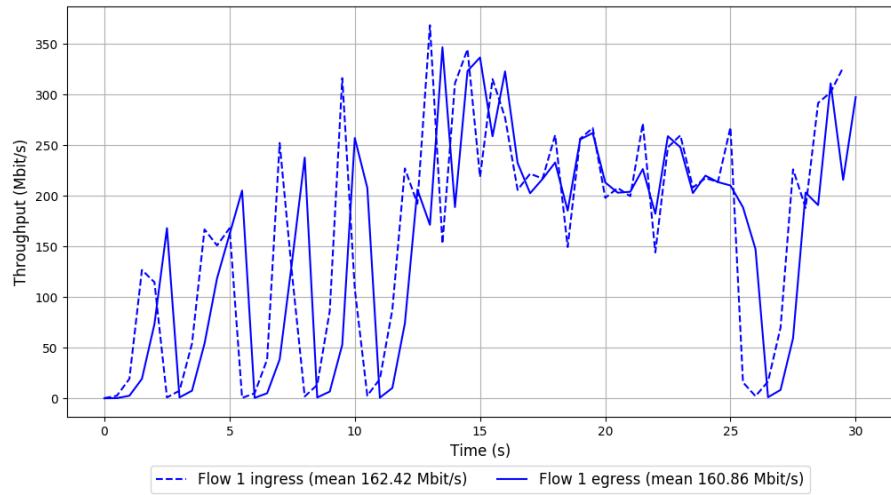


Run 10: Statistics of Verus

```
Start at: 2018-05-30 21:55:34
End at: 2018-05-30 21:56:04
Local clock offset: -0.152 ms
Remote clock offset: 0.266 ms

# Below is generated by plot.py at 2018-05-30 23:30:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.86 Mbit/s
95th percentile per-packet one-way delay: 139.432 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 160.86 Mbit/s
95th percentile per-packet one-way delay: 139.432 ms
Loss rate: 1.40%
```

Run 10: Report of Verus — Data Link

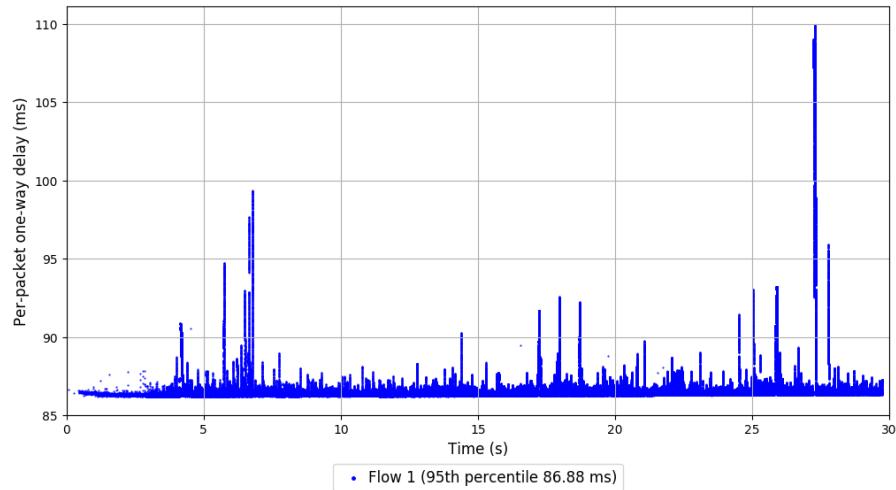
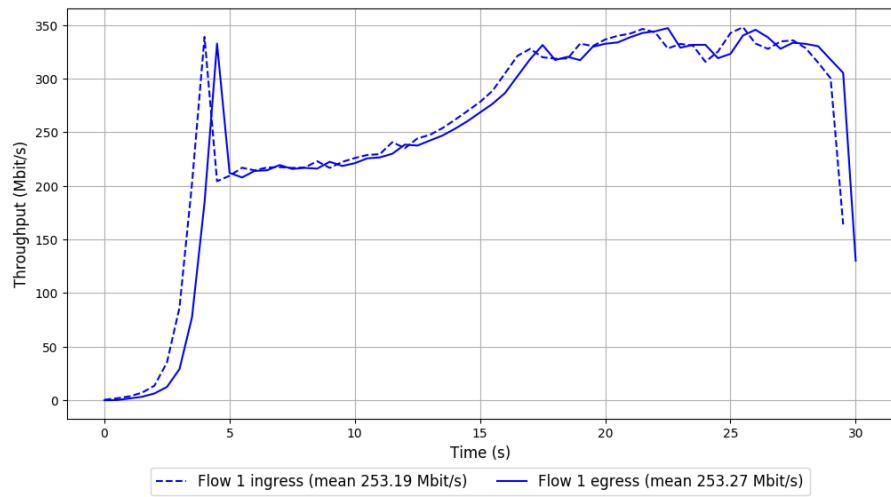


Run 1: Statistics of PCC-Vivace

```
Start at: 2018-05-30 18:59:32
End at: 2018-05-30 19:00:02
Local clock offset: 5.838 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2018-05-30 23:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.27 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 253.27 Mbit/s
95th percentile per-packet one-way delay: 86.883 ms
Loss rate: 0.55%
```

Run 1: Report of PCC-Vivace — Data Link

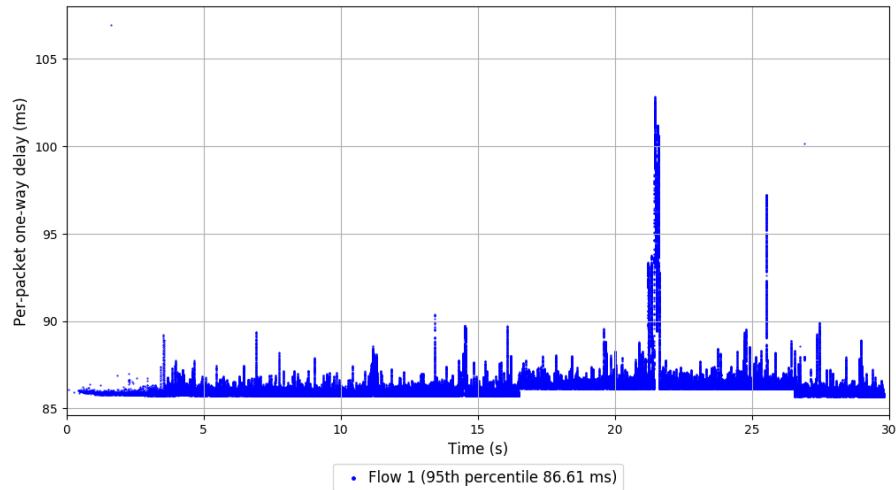
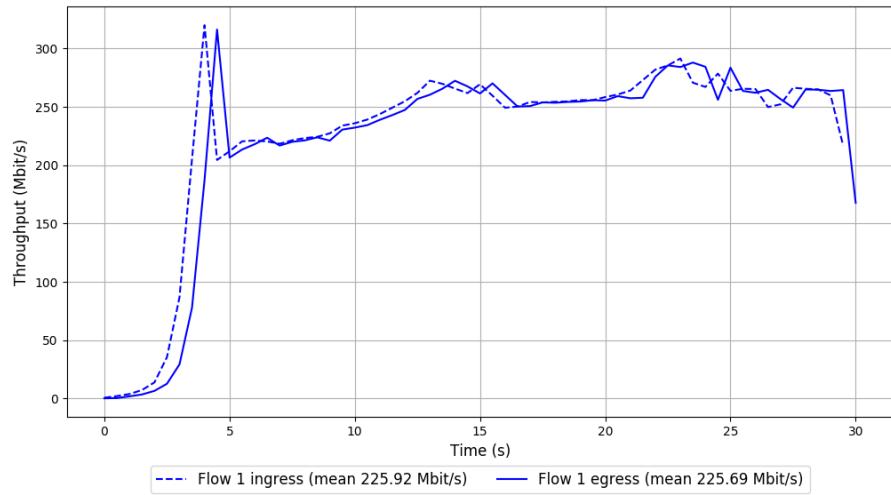


Run 2: Statistics of PCC-Vivace

```
Start at: 2018-05-30 19:19:37
End at: 2018-05-30 19:20:07
Local clock offset: 5.71 ms
Remote clock offset: 0.13 ms

# Below is generated by plot.py at 2018-05-30 23:31:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.69 Mbit/s
95th percentile per-packet one-way delay: 86.615 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 225.69 Mbit/s
95th percentile per-packet one-way delay: 86.615 ms
Loss rate: 0.68%
```

Run 2: Report of PCC-Vivace — Data Link

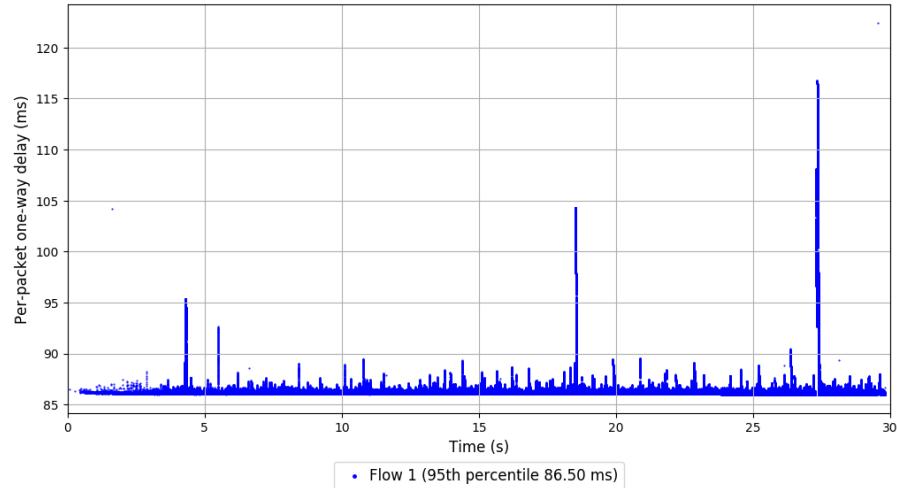
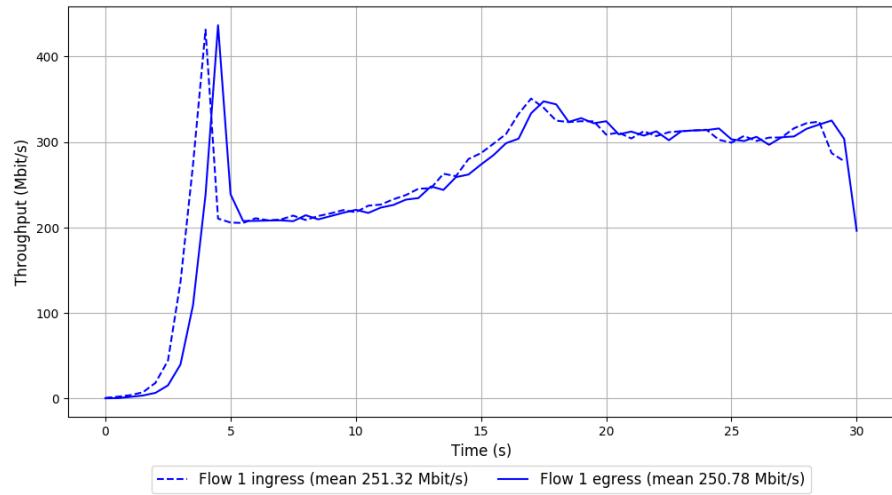


Run 3: Statistics of PCC-Vivace

```
Start at: 2018-05-30 19:40:00
End at: 2018-05-30 19:40:30
Local clock offset: 2.277 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-05-30 23:31:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.78 Mbit/s
95th percentile per-packet one-way delay: 86.502 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 250.78 Mbit/s
95th percentile per-packet one-way delay: 86.502 ms
Loss rate: 0.79%
```

Run 3: Report of PCC-Vivace — Data Link

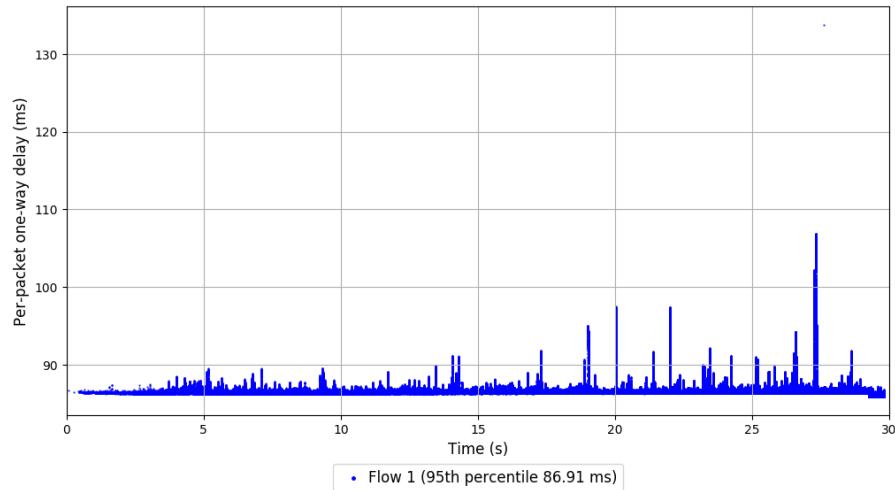
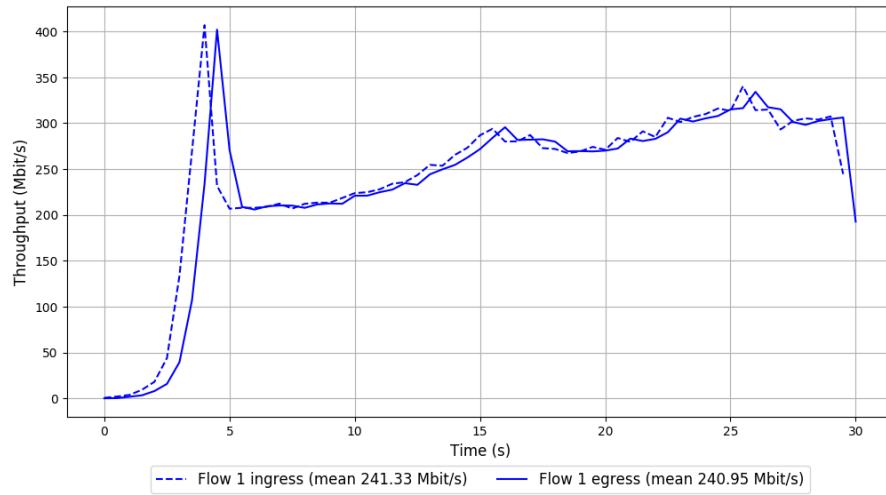


Run 4: Statistics of PCC-Vivace

```
Start at: 2018-05-30 20:00:35
End at: 2018-05-30 20:01:05
Local clock offset: 1.943 ms
Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-05-30 23:32:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.95 Mbit/s
95th percentile per-packet one-way delay: 86.913 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 240.95 Mbit/s
95th percentile per-packet one-way delay: 86.913 ms
Loss rate: 0.73%
```

Run 4: Report of PCC-Vivace — Data Link

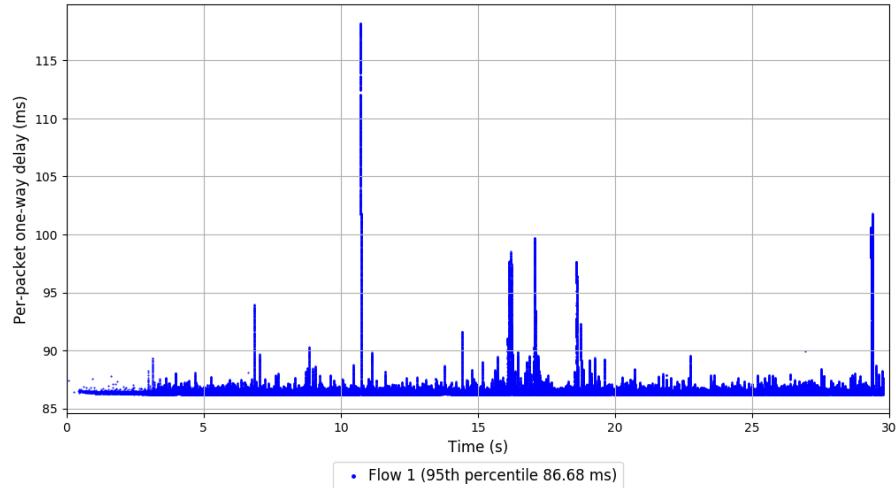
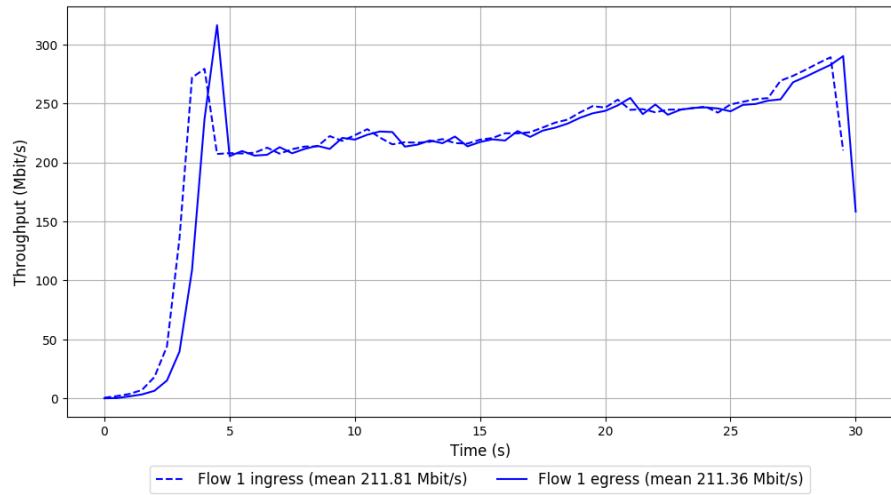


Run 5: Statistics of PCC-Vivace

```
Start at: 2018-05-30 20:21:07
End at: 2018-05-30 20:21:37
Local clock offset: 1.428 ms
Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2018-05-30 23:32:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.36 Mbit/s
95th percentile per-packet one-way delay: 86.676 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 211.36 Mbit/s
95th percentile per-packet one-way delay: 86.676 ms
Loss rate: 0.79%
```

Run 5: Report of PCC-Vivace — Data Link

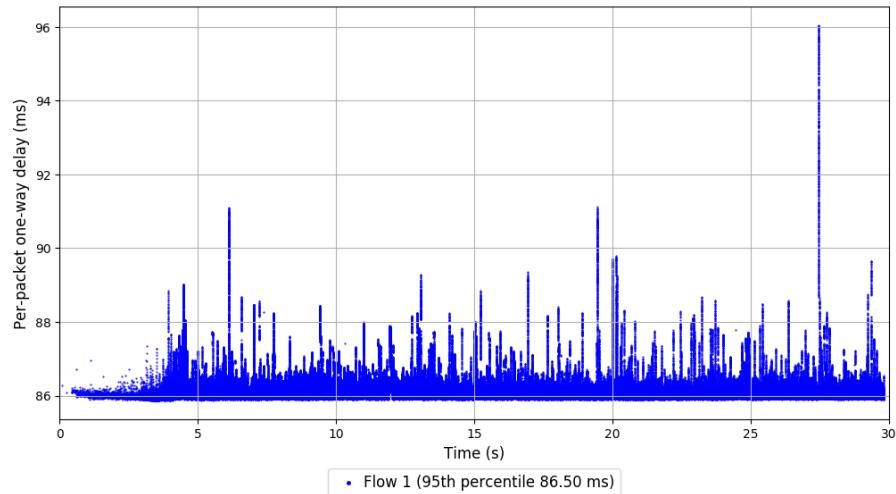
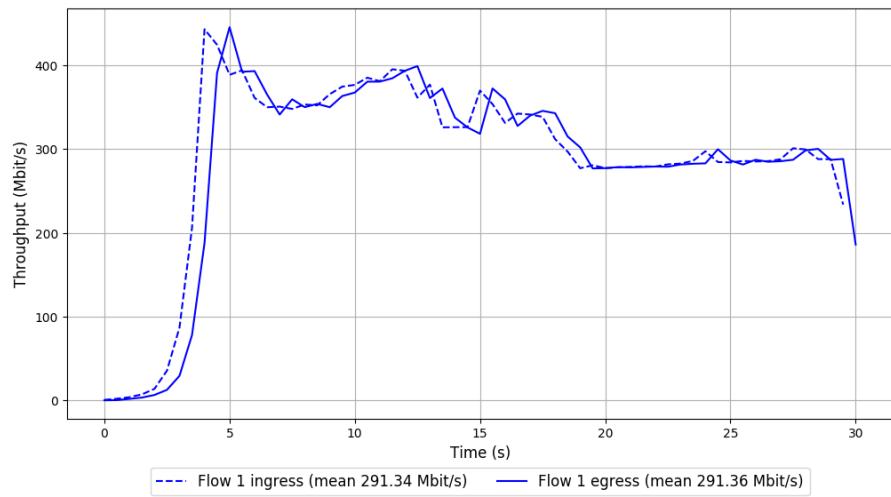


Run 6: Statistics of PCC-Vivace

```
Start at: 2018-05-30 20:41:38
End at: 2018-05-30 20:42:08
Local clock offset: 0.578 ms
Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2018-05-30 23:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 291.36 Mbit/s
95th percentile per-packet one-way delay: 86.498 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 291.36 Mbit/s
95th percentile per-packet one-way delay: 86.498 ms
Loss rate: 0.57%
```

Run 6: Report of PCC-Vivace — Data Link

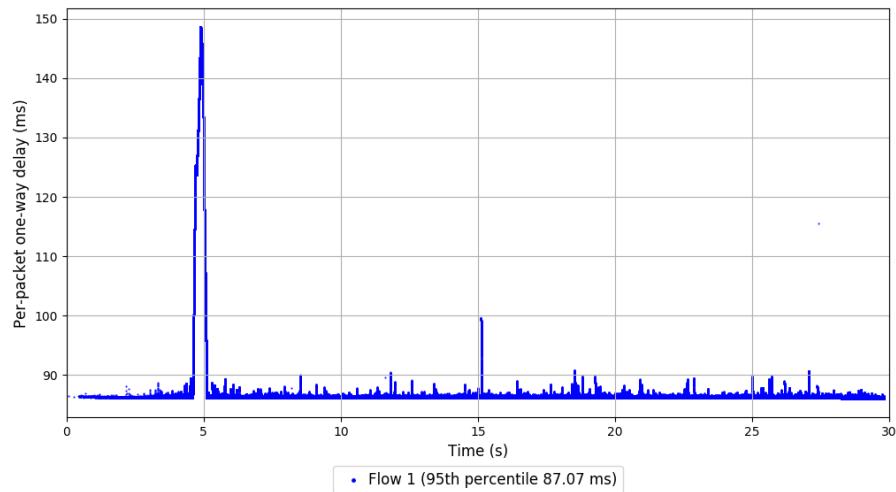
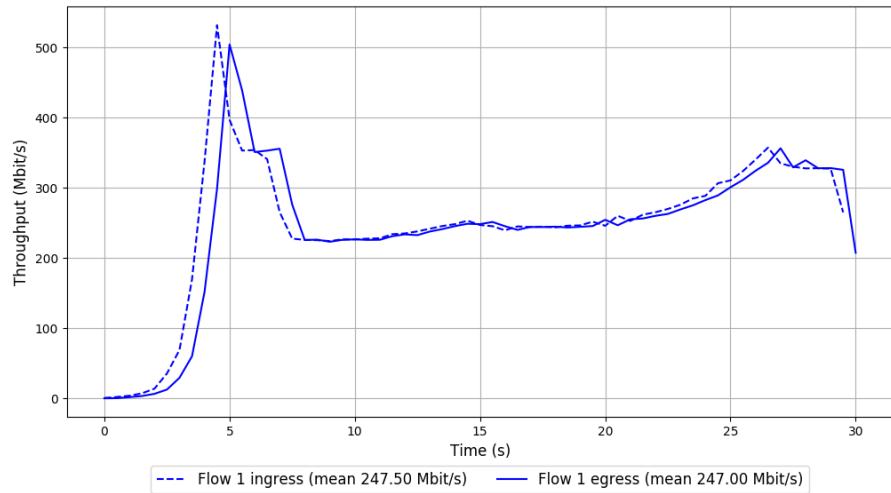


Run 7: Statistics of PCC-Vivace

```
Start at: 2018-05-30 21:01:56
End at: 2018-05-30 21:02:26
Local clock offset: 0.476 ms
Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2018-05-30 23:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.00 Mbit/s
95th percentile per-packet one-way delay: 87.073 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 247.00 Mbit/s
95th percentile per-packet one-way delay: 87.073 ms
Loss rate: 0.78%
```

Run 7: Report of PCC-Vivace — Data Link

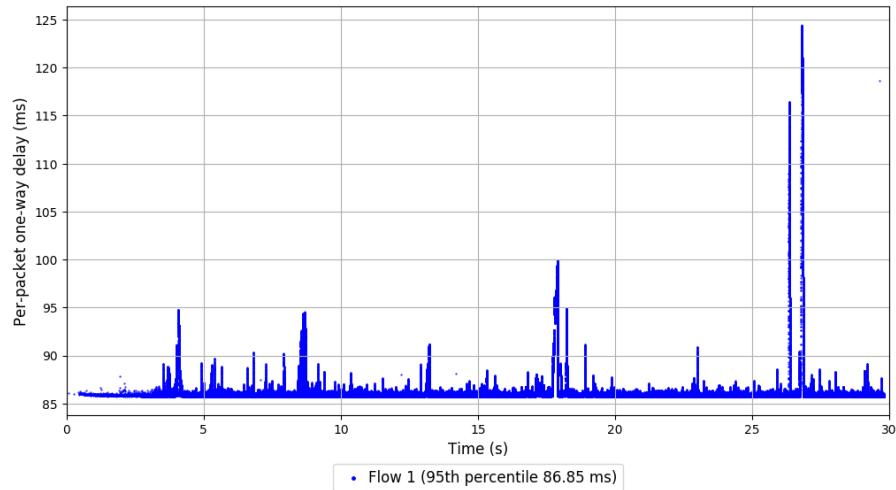
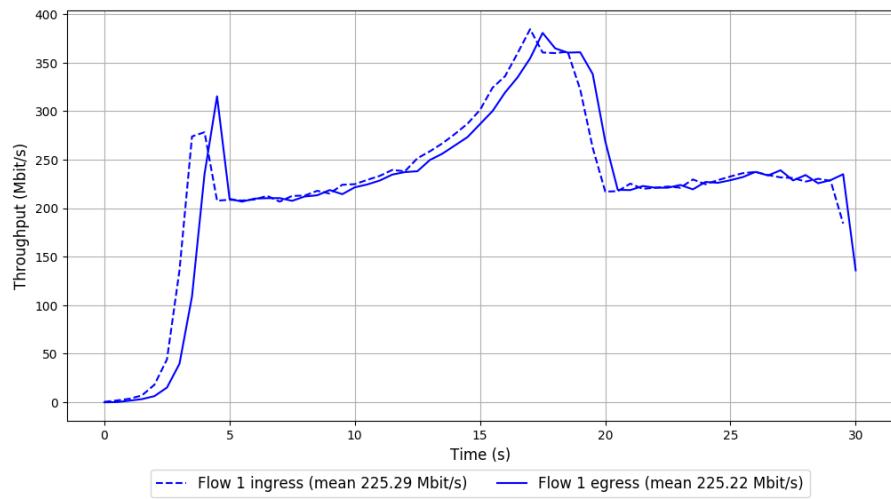


Run 8: Statistics of PCC-Vivace

```
Start at: 2018-05-30 21:22:26
End at: 2018-05-30 21:22:56
Local clock offset: 0.518 ms
Remote clock offset: 0.237 ms

# Below is generated by plot.py at 2018-05-30 23:33:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 225.22 Mbit/s
95th percentile per-packet one-way delay: 86.848 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 225.22 Mbit/s
95th percentile per-packet one-way delay: 86.848 ms
Loss rate: 0.61%
```

Run 8: Report of PCC-Vivace — Data Link

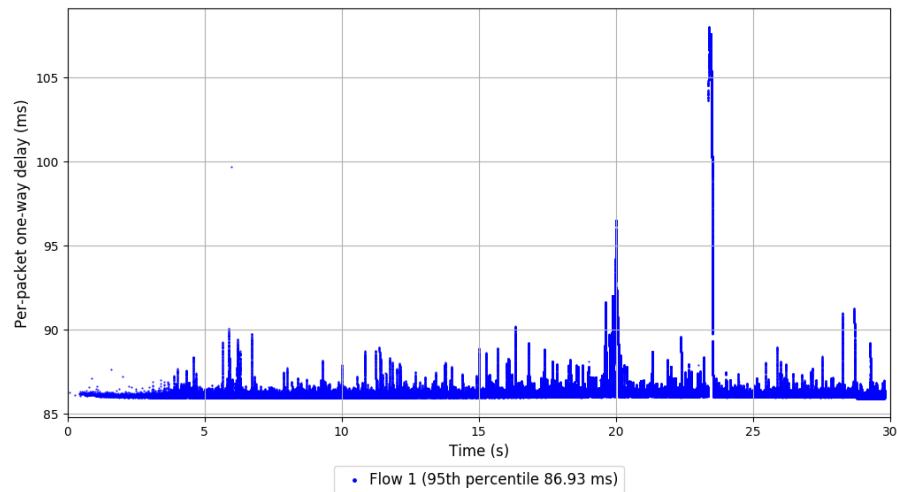
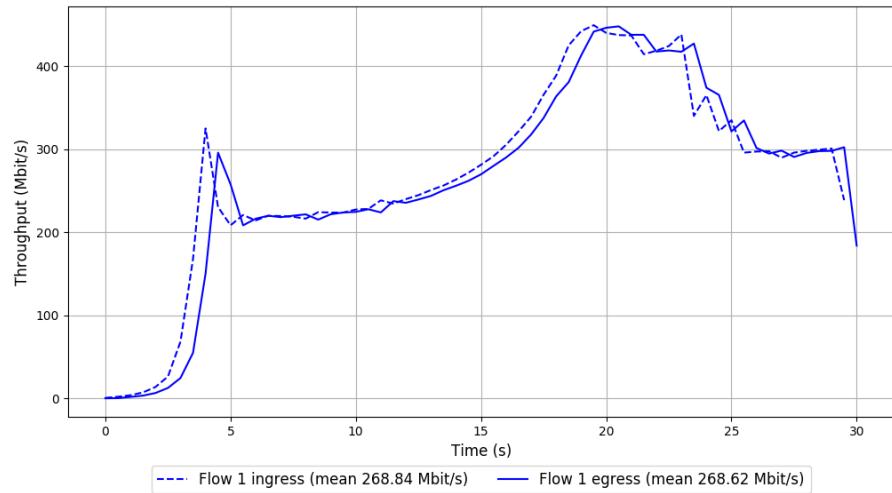


Run 9: Statistics of PCC-Vivace

```
Start at: 2018-05-30 21:42:55
End at: 2018-05-30 21:43:25
Local clock offset: 0.447 ms
Remote clock offset: 0.224 ms

# Below is generated by plot.py at 2018-05-30 23:34:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.62 Mbit/s
95th percentile per-packet one-way delay: 86.929 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 268.62 Mbit/s
95th percentile per-packet one-way delay: 86.929 ms
Loss rate: 0.66%
```

Run 9: Report of PCC-Vivace — Data Link

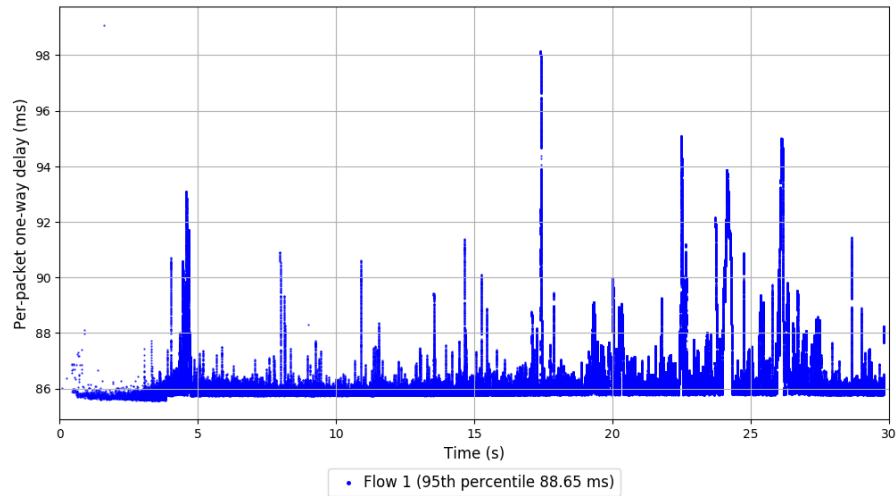
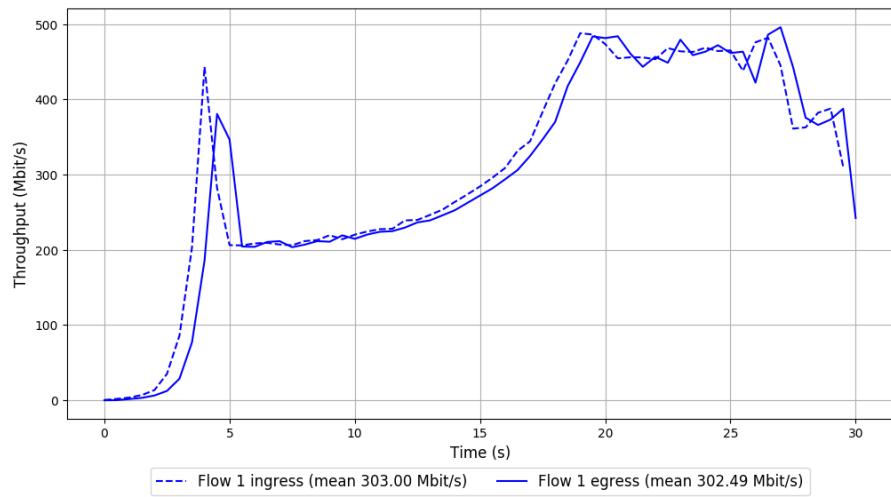


Run 10: Statistics of PCC-Vivace

```
Start at: 2018-05-30 22:03:20
End at: 2018-05-30 22:03:50
Local clock offset: -0.479 ms
Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 302.49 Mbit/s
95th percentile per-packet one-way delay: 88.647 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 302.49 Mbit/s
95th percentile per-packet one-way delay: 88.647 ms
Loss rate: 0.75%
```

Run 10: Report of PCC-Vivace — Data Link

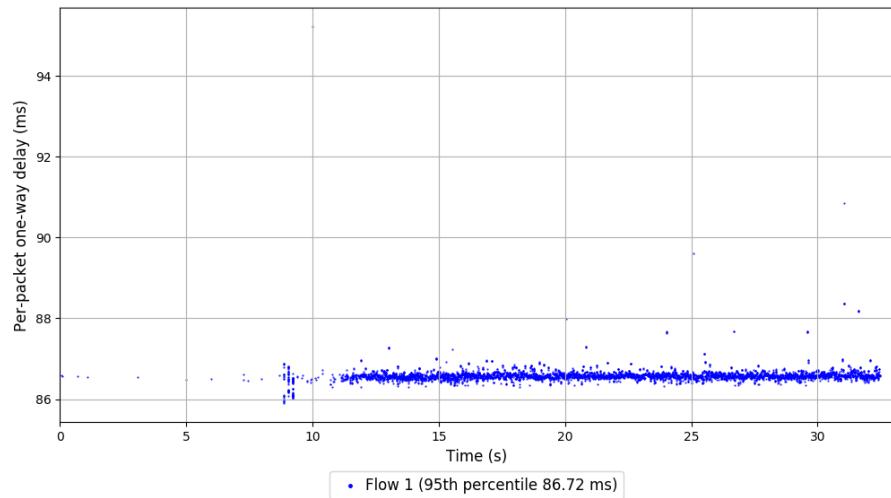
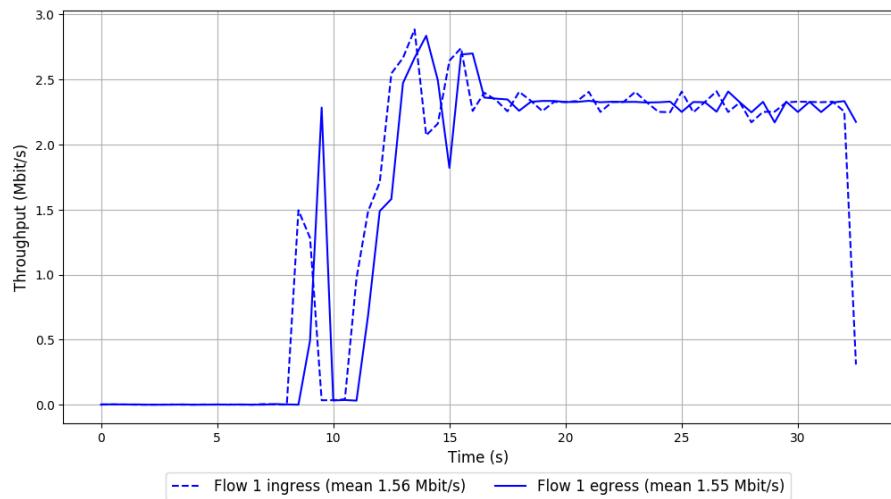


```
Run 1: Statistics of WebRTC media
```

```
Start at: 2018-05-30 19:04:48
End at: 2018-05-30 19:05:18
Local clock offset: 4.728 ms
Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 86.725 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 86.725 ms
Loss rate: 0.84%
```

Run 1: Report of WebRTC media — Data Link

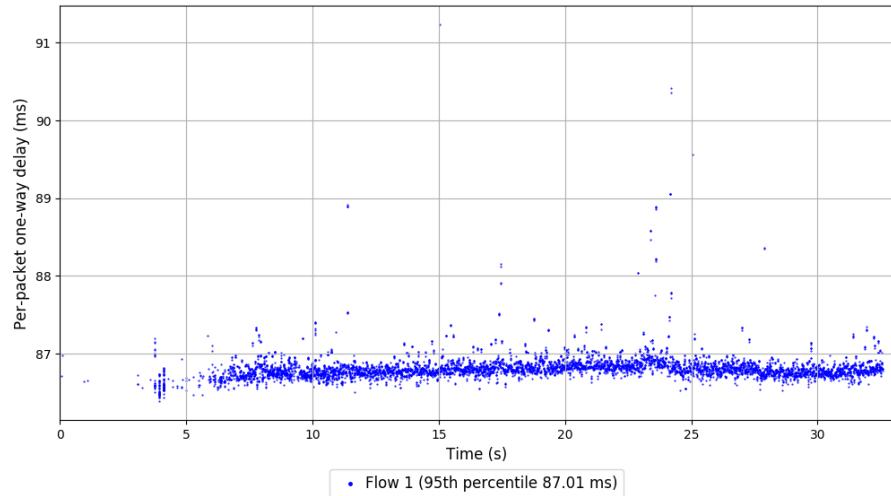
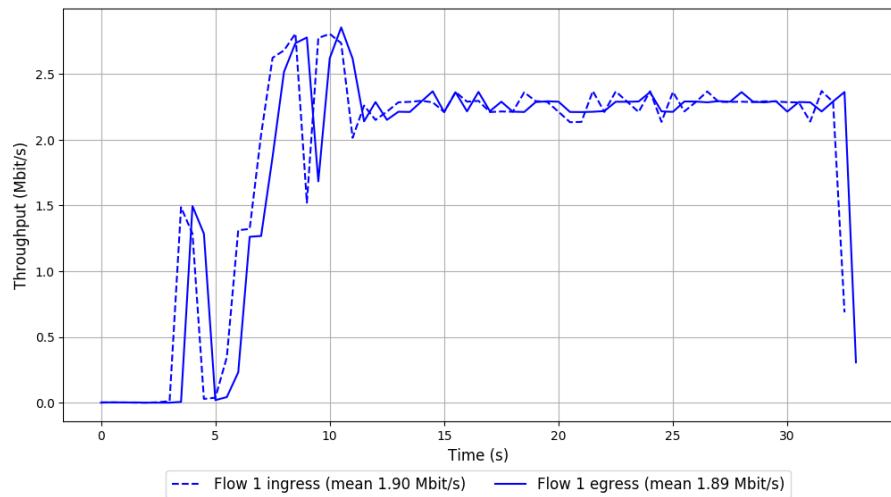


Run 2: Statistics of WebRTC media

```
Start at: 2018-05-30 19:24:52
End at: 2018-05-30 19:25:22
Local clock offset: 5.705 ms
Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 87.014 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 87.014 ms
Loss rate: 0.62%
```

Run 2: Report of WebRTC media — Data Link

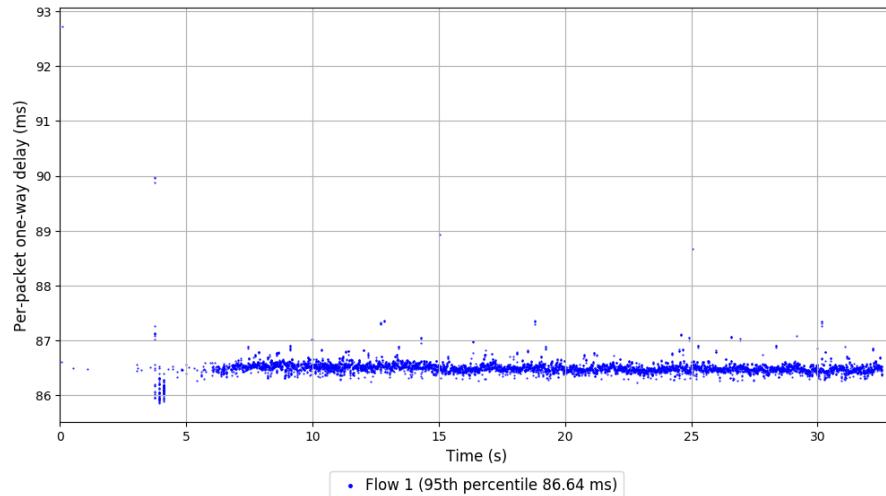
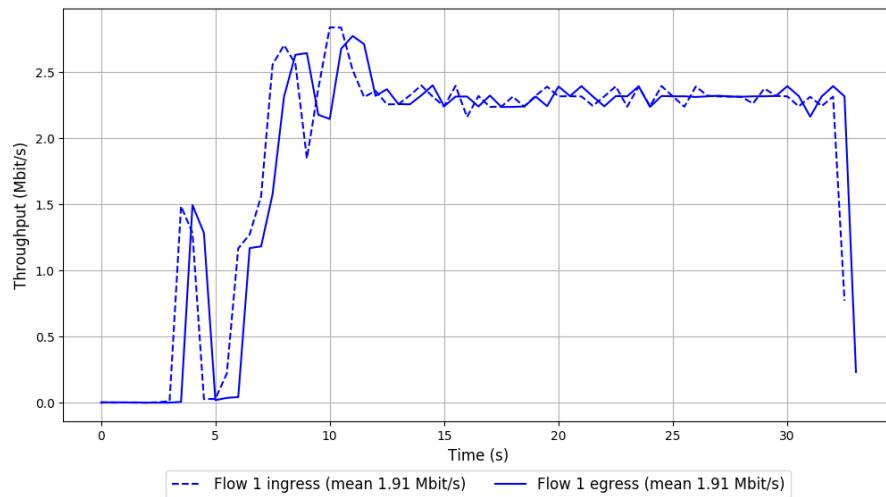


Run 3: Statistics of WebRTC media

```
Start at: 2018-05-30 19:45:19
End at: 2018-05-30 19:45:49
Local clock offset: 2.209 ms
Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 86.640 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 86.640 ms
Loss rate: 0.68%
```

Run 3: Report of WebRTC media — Data Link

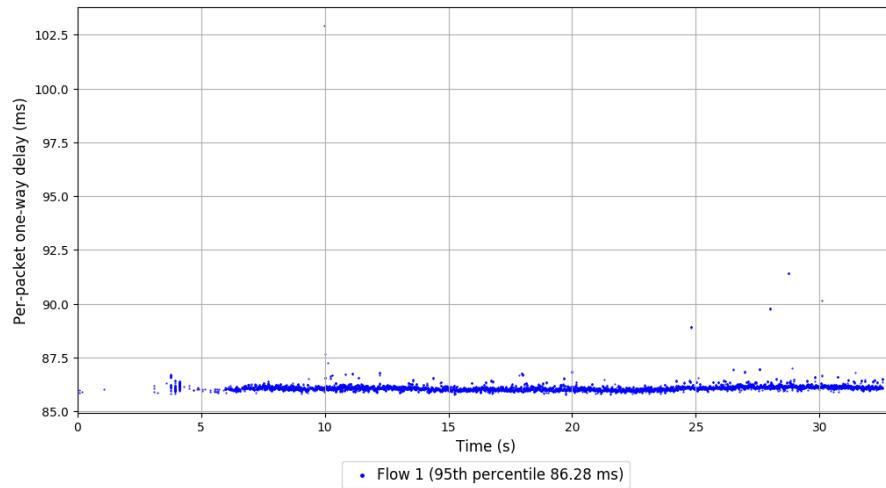
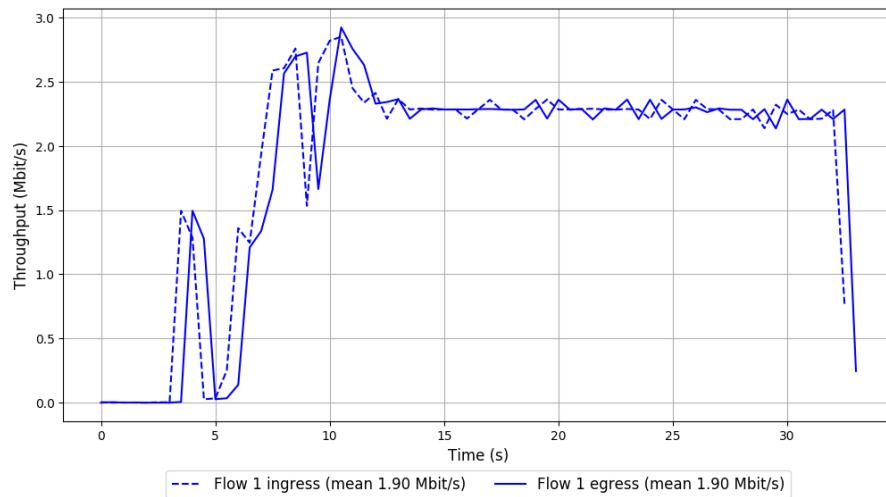


Run 4: Statistics of WebRTC media

```
Start at: 2018-05-30 20:05:52
End at: 2018-05-30 20:06:22
Local clock offset: 1.138 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 86.278 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 86.278 ms
Loss rate: 0.72%
```

Run 4: Report of WebRTC media — Data Link

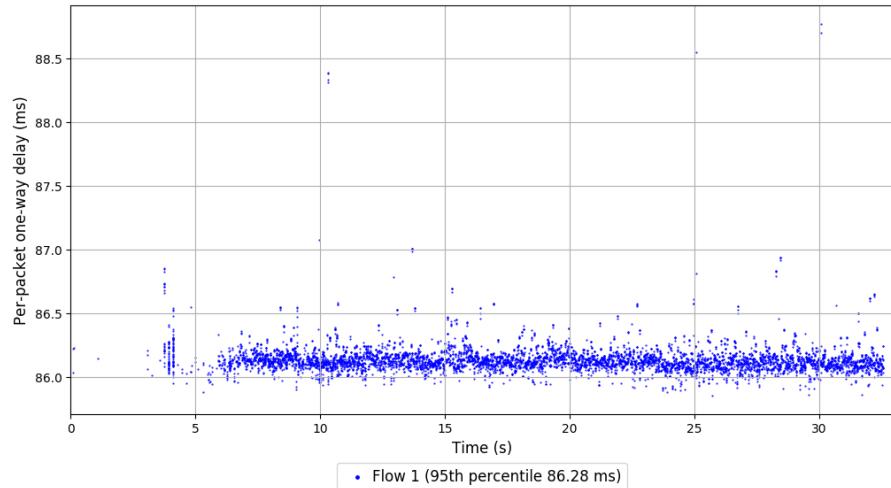
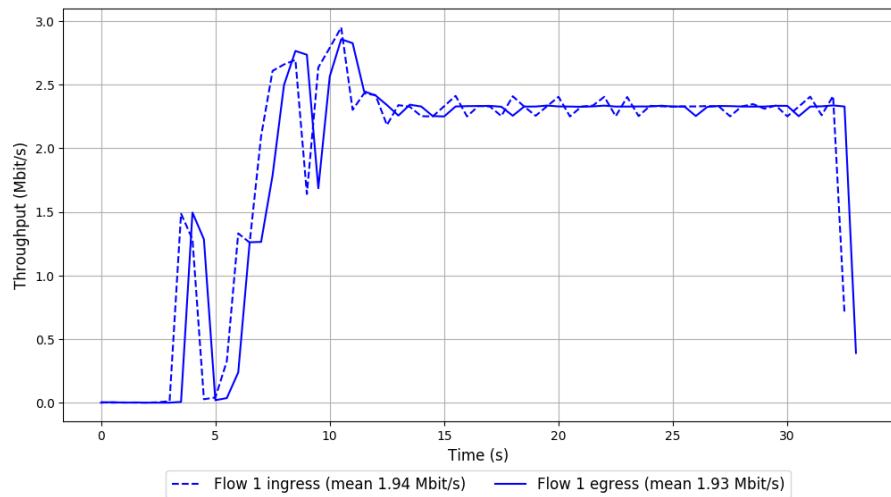


```
Run 5: Statistics of WebRTC media

Start at: 2018-05-30 20:26:23
End at: 2018-05-30 20:26:53
Local clock offset: 1.241 ms
Remote clock offset: 0.215 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 86.276 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 86.276 ms
Loss rate: 0.61%
```

Run 5: Report of WebRTC media — Data Link

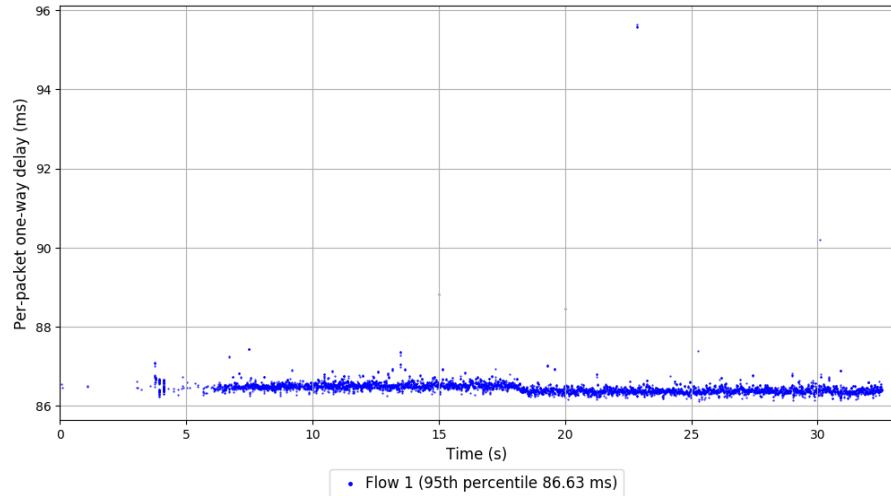
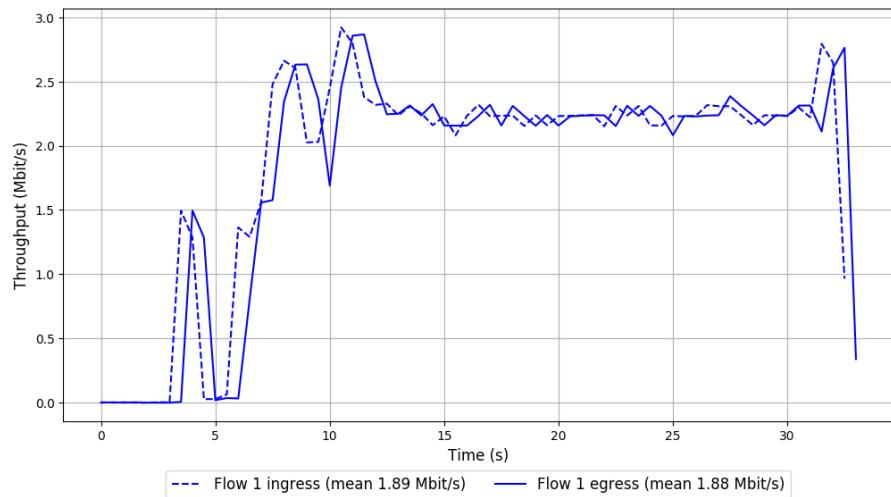


```
Run 6: Statistics of WebRTC media

Start at: 2018-05-30 20:46:58
End at: 2018-05-30 20:47:28
Local clock offset: 0.686 ms
Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 86.627 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 86.627 ms
Loss rate: 0.89%
```

Run 6: Report of WebRTC media — Data Link

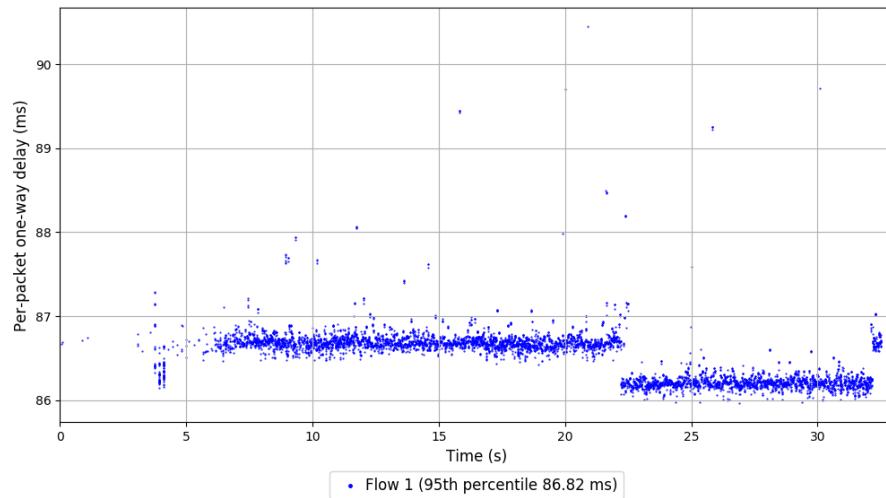
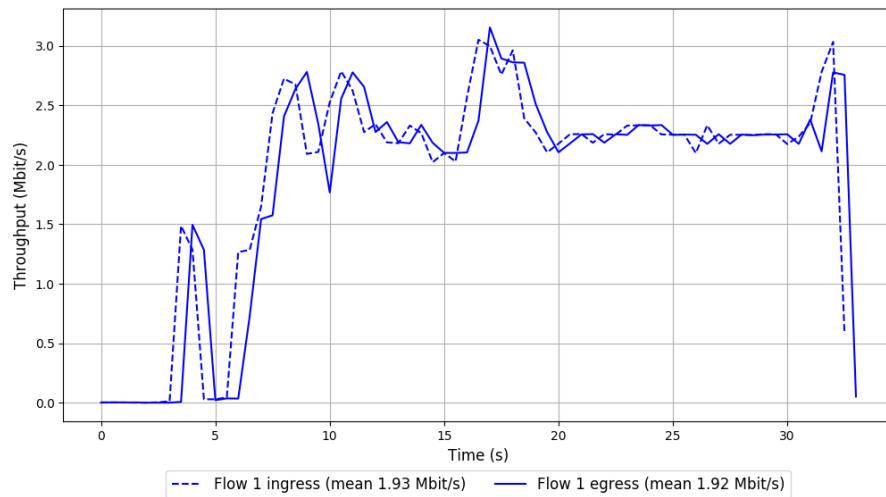


Run 7: Statistics of WebRTC media

```
Start at: 2018-05-30 21:07:14
End at: 2018-05-30 21:07:45
Local clock offset: 0.529 ms
Remote clock offset: 0.185 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 86.823 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 1.92 Mbit/s
95th percentile per-packet one-way delay: 86.823 ms
Loss rate: 1.02%
```

Run 7: Report of WebRTC media — Data Link

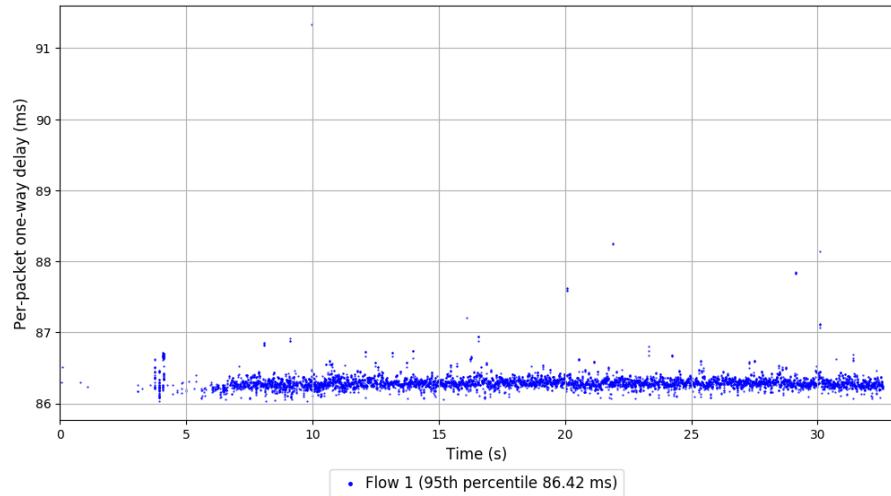
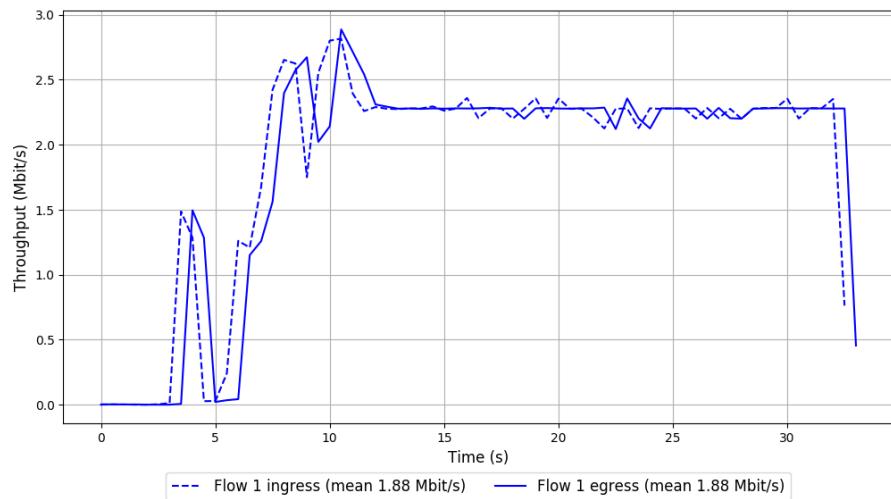


Run 8: Statistics of WebRTC media

```
Start at: 2018-05-30 21:27:42
End at: 2018-05-30 21:28:12
Local clock offset: 0.759 ms
Remote clock offset: 0.26 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 86.418 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 86.418 ms
Loss rate: 0.62%
```

Run 8: Report of WebRTC media — Data Link

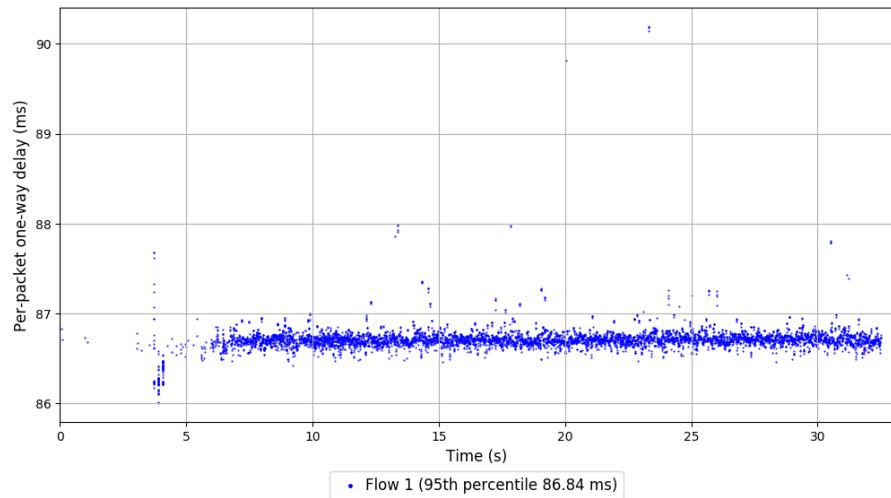
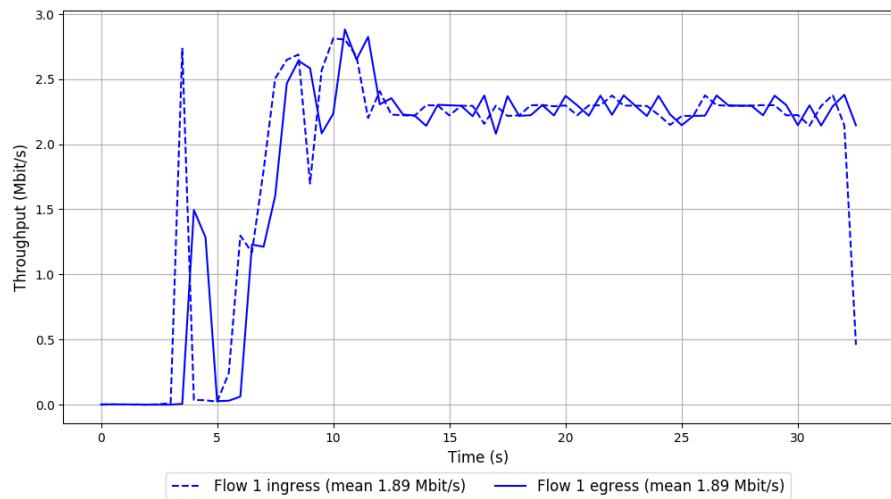


Run 9: Statistics of WebRTC media

```
Start at: 2018-05-30 21:48:12
End at: 2018-05-30 21:48:42
Local clock offset: 0.239 ms
Remote clock offset: 0.231 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 86.836 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 86.836 ms
Loss rate: 0.68%
```

Run 9: Report of WebRTC media — Data Link



```
Run 10: Statistics of WebRTC media
```

```
Start at: 2018-05-30 22:08:40
End at: 2018-05-30 22:09:10
Local clock offset: -0.422 ms
Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2018-05-30 23:34:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 86.243 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 86.243 ms
Loss rate: 0.62%
```

Run 10: Report of WebRTC media — Data Link

