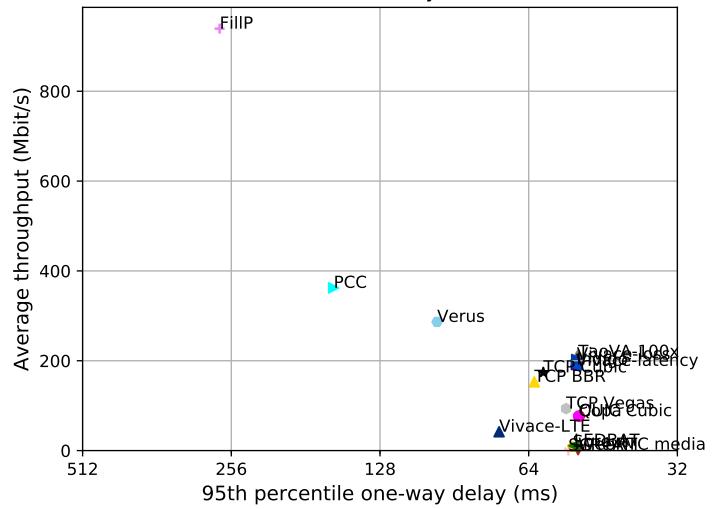


## Pantheon Report

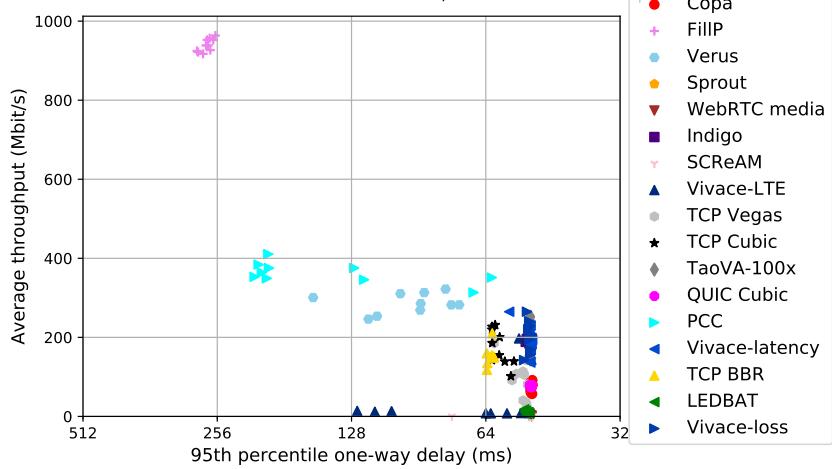
Generated at 2018-01-16 22:18:52 (UTC).  
Data path: GCE Iowa Ethernet (*local*) → GCE London Ethernet (*remote*).  
Repeated the test of 17 congestion control schemes 10 times.  
Each test lasted for 30 seconds running 1 flow.  
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).  
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

```
Git summary:  
branch: master @ af8abdfba95588b0c5f2aec9e856a1656b0c598  
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50  
  M datagrump/sender.cc  
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67  
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8  
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55  
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89  
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681  
  M datagrump/sender.cc  
third_party/libutp @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf  
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993  
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1  
  M receiver/src/buffer.h  
  M receiver/src/core.cpp  
  M sender/src/buffer.h  
  M sender/src/core.cpp  
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42  
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885  
third_party/sourdough @ f1a14bf7e749737437f61b1eaeeb30b267cde681  
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce  
  M src/examples/cellsim.cc  
  M src/examples/sproutbt2.cc  
  M src/network/sproutconn.cc  
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494  
  M src/verus.hpp  
  M tools/plot.py  
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6  
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	153.03	62.34	0.06
TCP Cubic	10	174.11	59.78	0.12
LEDBAT	10	10.73	51.83	0.19
PCC	10	362.23	158.85	0.47
QUIC Cubic	10	76.70	50.74	0.00
SCReAM	10	0.21	53.20	0.00
WebRTC media	9	1.90	50.83	0.01
Sprout	10	7.94	52.14	0.12
TaoVA-100x	10	208.57	50.81	0.00
TCP Vegas	10	93.42	53.75	0.26
Verus	10	286.52	98.09	0.75
Copa	10	76.61	50.58	0.00
FillP	10	939.31	270.31	2.98
Indigo	10	191.61	51.23	0.03
Vivace-latency	10	188.62	51.39	0.03
Vivace-loss	10	202.76	51.16	0.00
Vivace-LTE	10	42.03	73.47	0.00

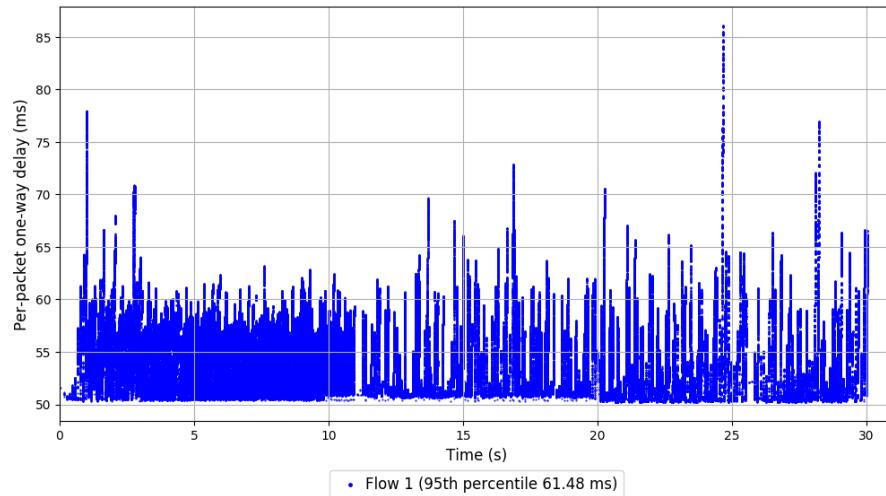
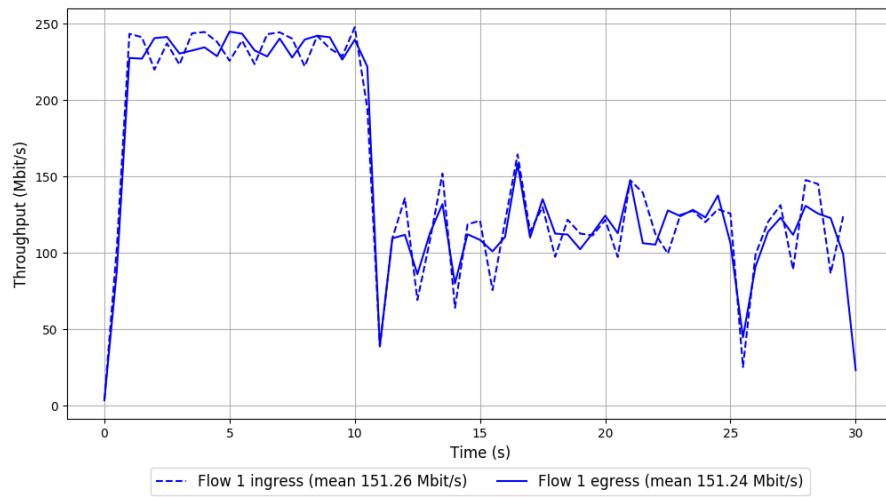
Run 1: Statistics of TCP BBR

Start at: 2018-01-16 17:00:34

End at: 2018-01-16 17:01:04

```
# Below is generated by plot.py at 2018-01-16 21:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.24 Mbit/s
95th percentile per-packet one-way delay: 61.482 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 151.24 Mbit/s
95th percentile per-packet one-way delay: 61.482 ms
Loss rate: 0.02%
```

## Run 1: Report of TCP BBR — Data Link



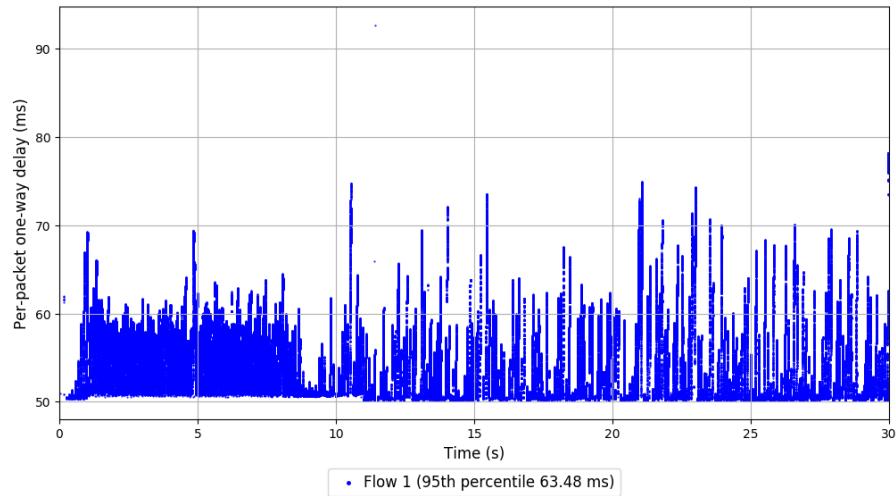
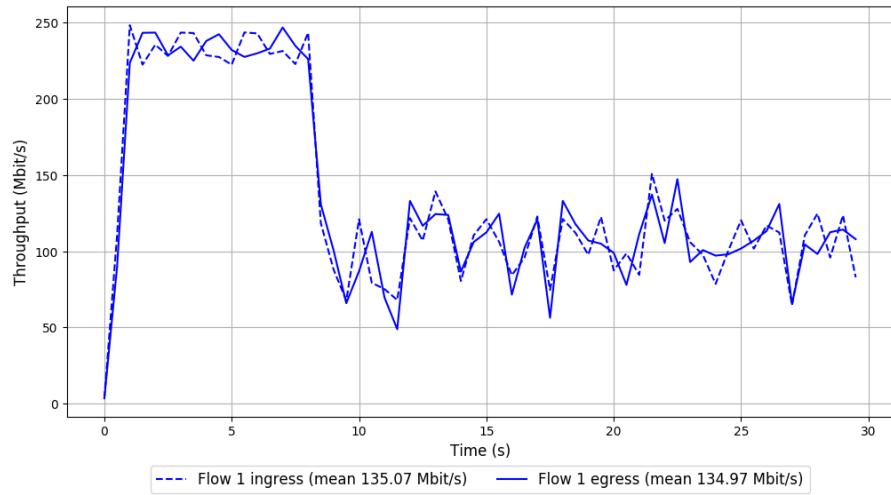
Run 2: Statistics of TCP BBR

Start at: 2018-01-16 17:14:53

End at: 2018-01-16 17:15:23

```
# Below is generated by plot.py at 2018-01-16 21:02:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.97 Mbit/s
95th percentile per-packet one-way delay: 63.483 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 134.97 Mbit/s
95th percentile per-packet one-way delay: 63.483 ms
Loss rate: 0.08%
```

## Run 2: Report of TCP BBR — Data Link



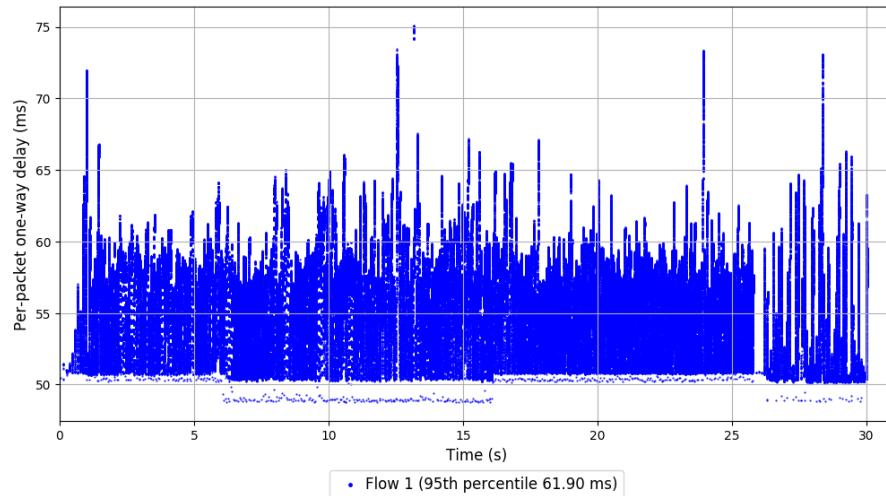
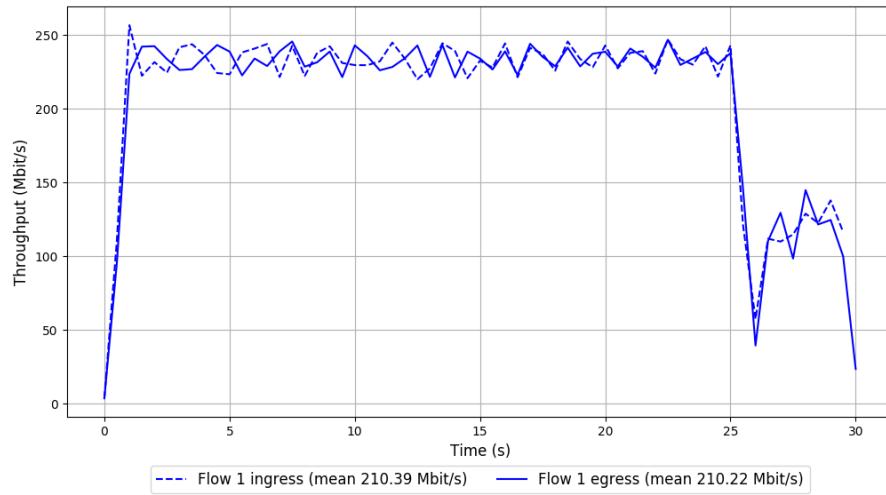
Run 3: Statistics of TCP BBR

Start at: 2018-01-16 17:29:08

End at: 2018-01-16 17:29:38

```
# Below is generated by plot.py at 2018-01-16 21:04:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.22 Mbit/s
95th percentile per-packet one-way delay: 61.898 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 210.22 Mbit/s
95th percentile per-packet one-way delay: 61.898 ms
Loss rate: 0.06%
```

### Run 3: Report of TCP BBR — Data Link



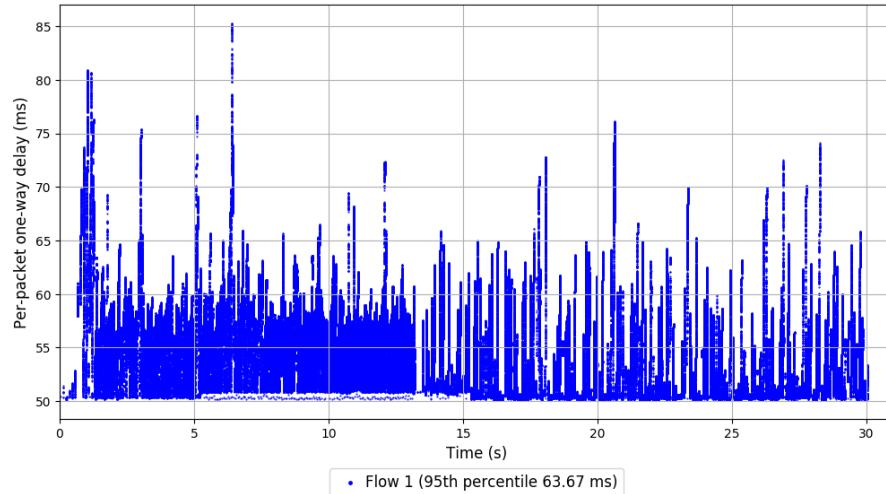
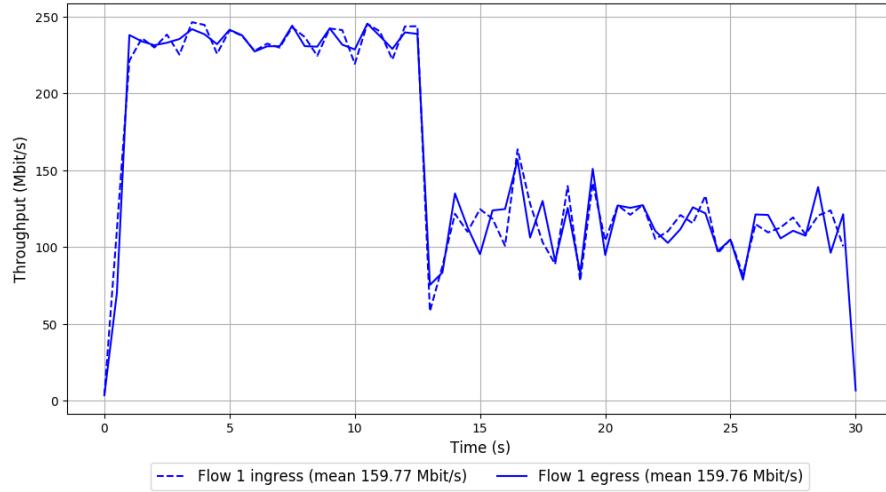
Run 4: Statistics of TCP BBR

Start at: 2018-01-16 17:43:19

End at: 2018-01-16 17:43:49

```
# Below is generated by plot.py at 2018-01-16 21:04:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.76 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.76 Mbit/s
95th percentile per-packet one-way delay: 63.675 ms
Loss rate: 0.00%
```

## Run 4: Report of TCP BBR — Data Link



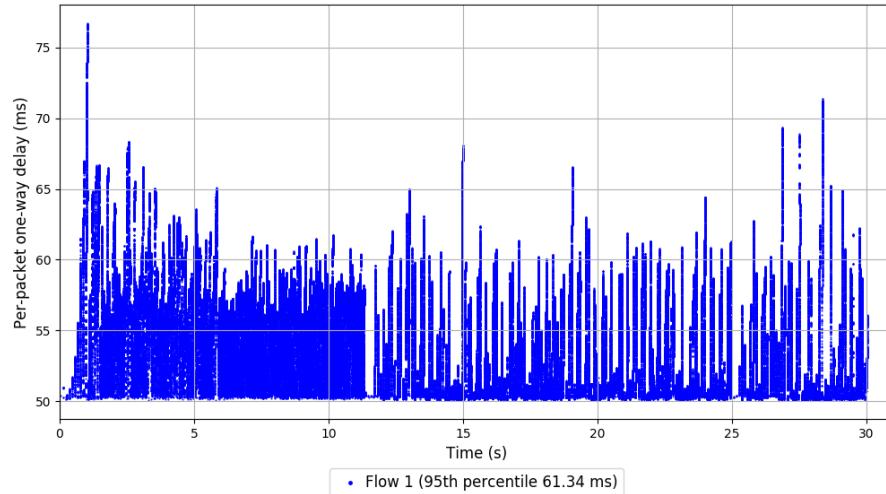
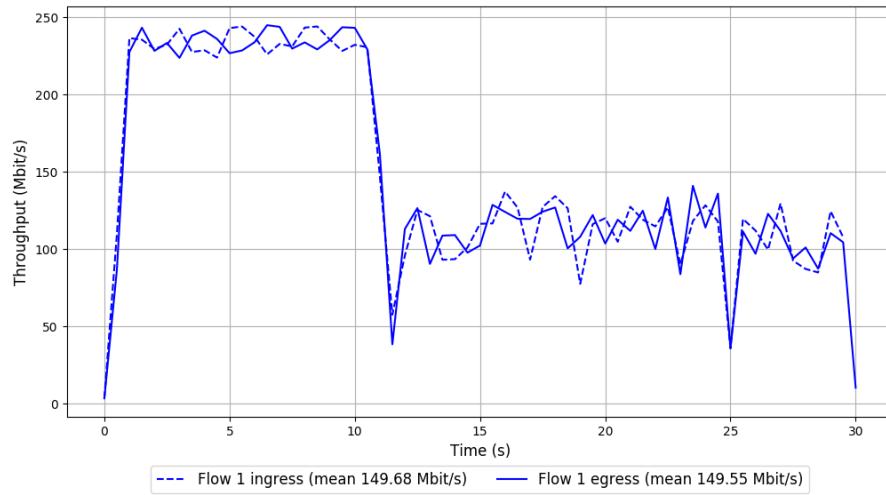
Run 5: Statistics of TCP BBR

Start at: 2018-01-16 17:57:22

End at: 2018-01-16 17:57:52

```
# Below is generated by plot.py at 2018-01-16 21:04:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.55 Mbit/s
95th percentile per-packet one-way delay: 61.345 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 149.55 Mbit/s
95th percentile per-packet one-way delay: 61.345 ms
Loss rate: 0.08%
```

### Run 5: Report of TCP BBR — Data Link



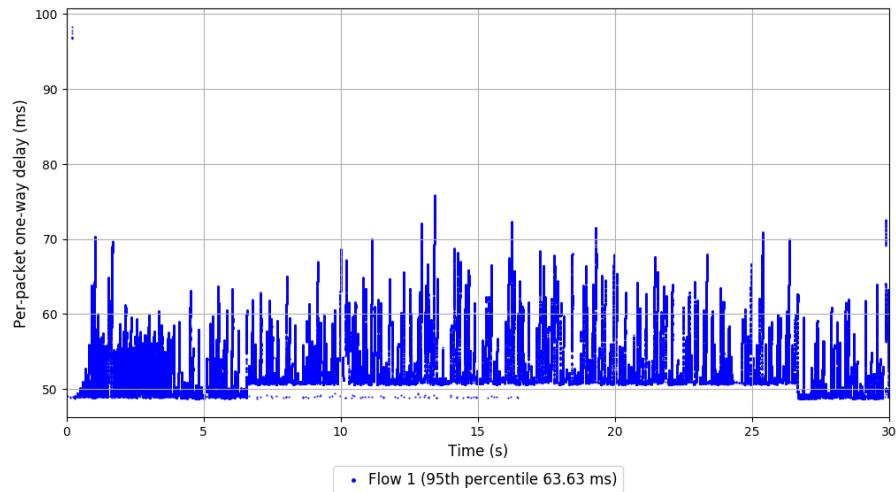
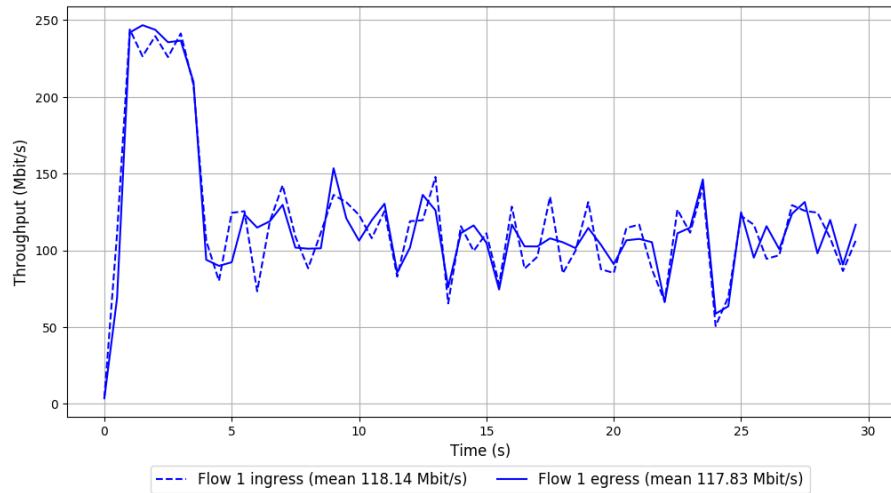
Run 6: Statistics of TCP BBR

Start at: 2018-01-16 18:11:08

End at: 2018-01-16 18:11:38

```
# Below is generated by plot.py at 2018-01-16 21:04:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.83 Mbit/s
95th percentile per-packet one-way delay: 63.628 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 117.83 Mbit/s
95th percentile per-packet one-way delay: 63.628 ms
Loss rate: 0.23%
```

## Run 6: Report of TCP BBR — Data Link



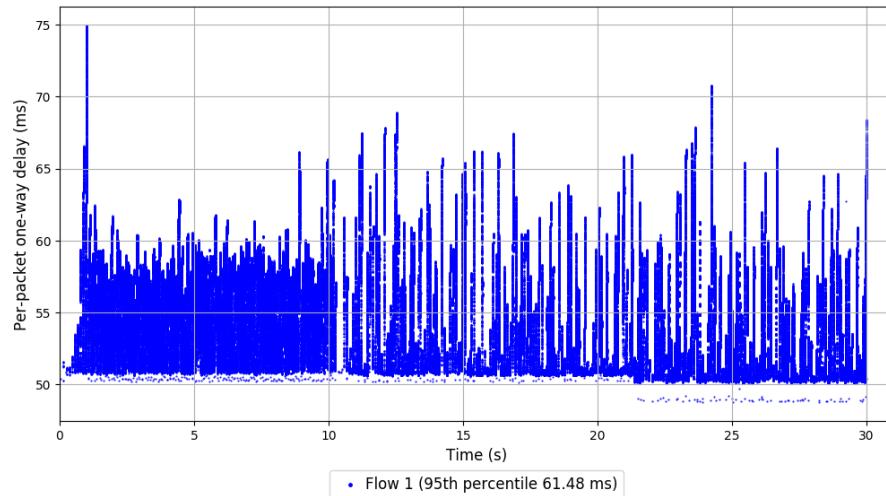
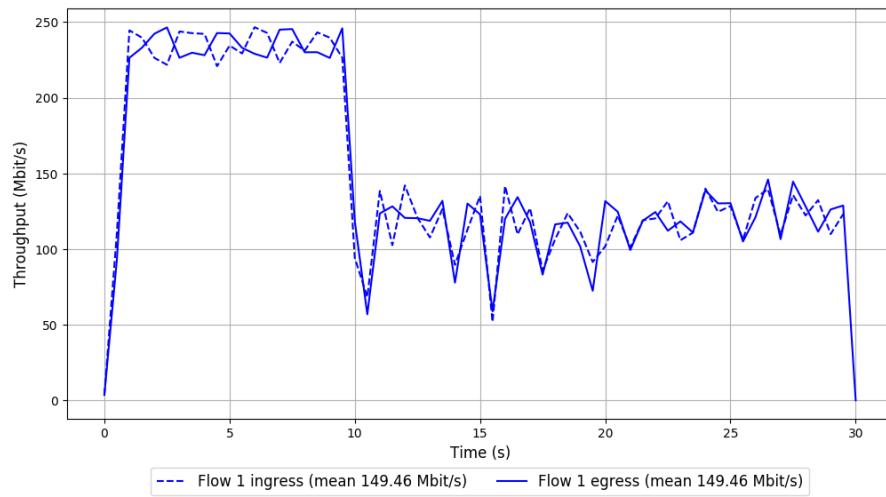
Run 7: Statistics of TCP BBR

Start at: 2018-01-16 18:25:13

End at: 2018-01-16 18:25:43

```
# Below is generated by plot.py at 2018-01-16 21:04:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.46 Mbit/s
95th percentile per-packet one-way delay: 61.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 149.46 Mbit/s
95th percentile per-packet one-way delay: 61.478 ms
Loss rate: 0.00%
```

### Run 7: Report of TCP BBR — Data Link



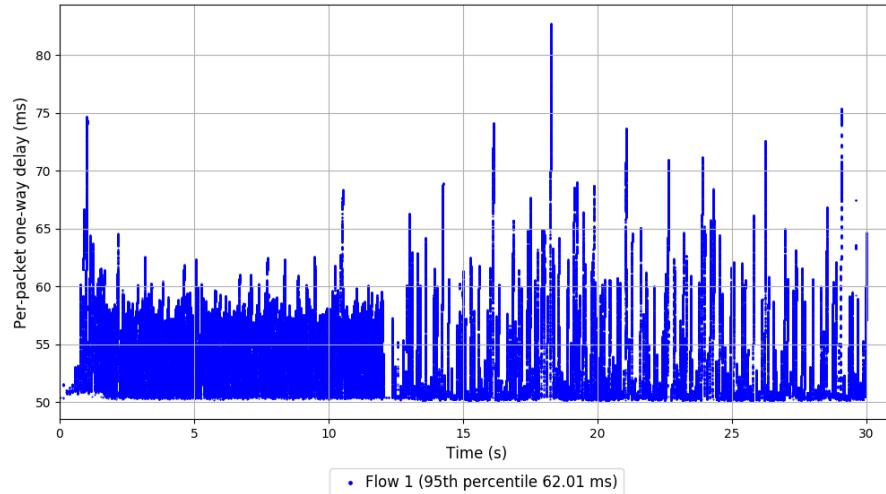
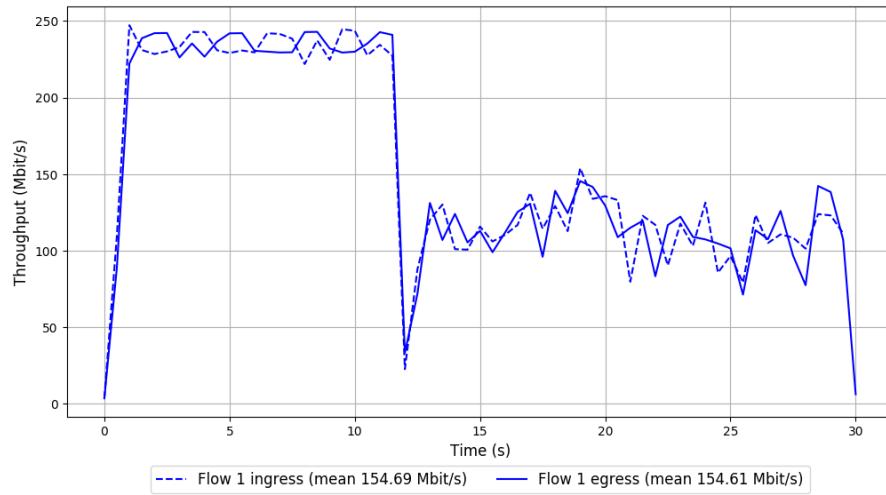
Run 8: Statistics of TCP BBR

Start at: 2018-01-16 18:39:06

End at: 2018-01-16 18:39:36

```
# Below is generated by plot.py at 2018-01-16 21:04:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.61 Mbit/s
95th percentile per-packet one-way delay: 62.005 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.61 Mbit/s
95th percentile per-packet one-way delay: 62.005 ms
Loss rate: 0.00%
```

### Run 8: Report of TCP BBR — Data Link



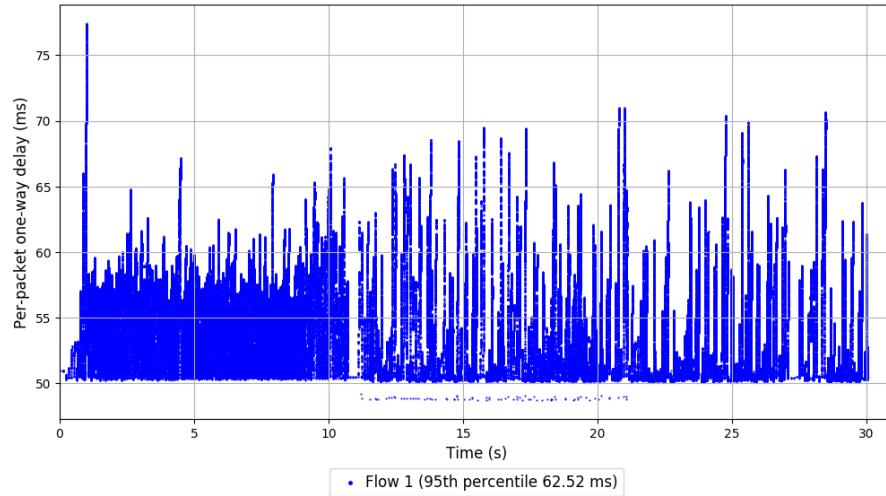
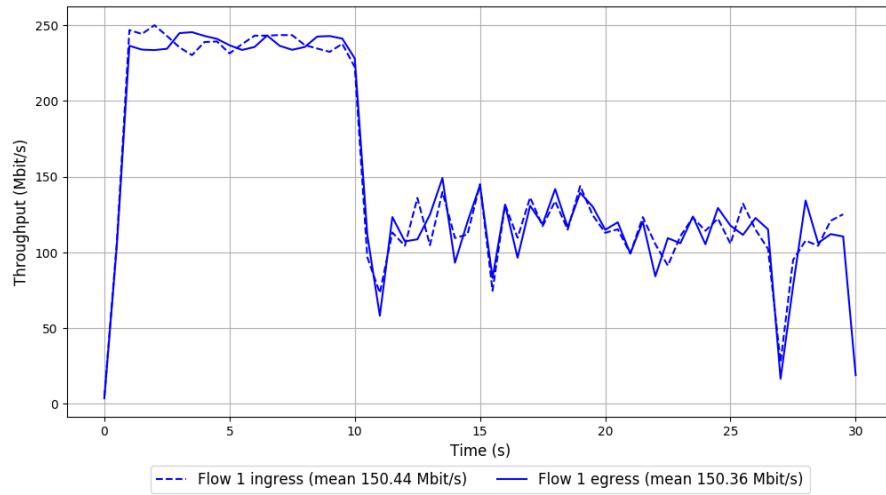
Run 9: Statistics of TCP BBR

Start at: 2018-01-16 18:53:13

End at: 2018-01-16 18:53:43

```
# Below is generated by plot.py at 2018-01-16 21:04:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.36 Mbit/s
95th percentile per-packet one-way delay: 62.524 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 150.36 Mbit/s
95th percentile per-packet one-way delay: 62.524 ms
Loss rate: 0.05%
```

### Run 9: Report of TCP BBR — Data Link



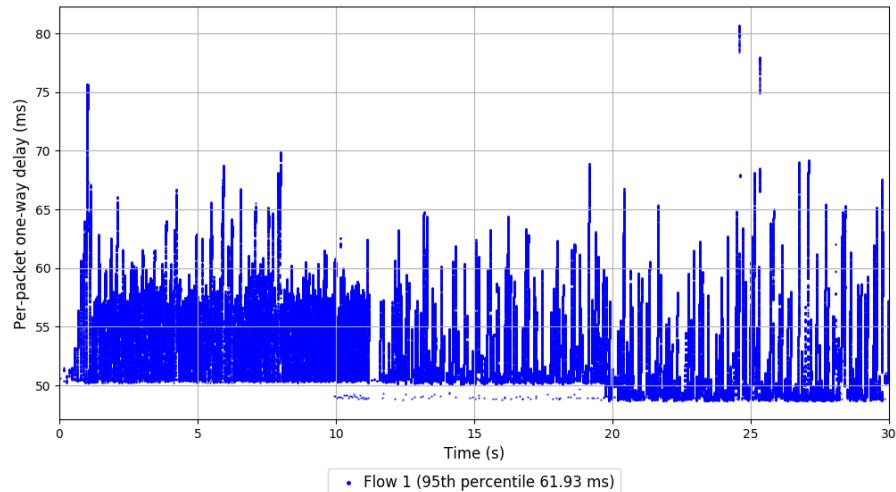
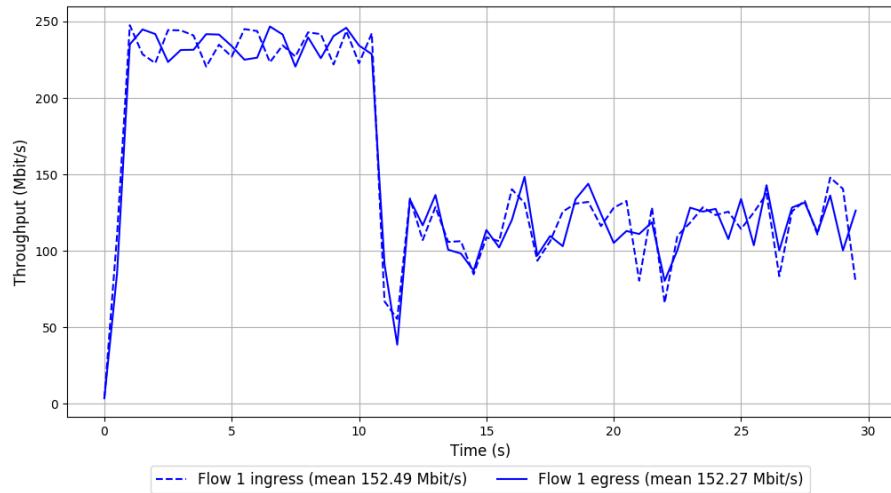
Run 10: Statistics of TCP BBR

Start at: 2018-01-16 19:07:25

End at: 2018-01-16 19:07:55

```
# Below is generated by plot.py at 2018-01-16 21:05:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 152.27 Mbit/s
95th percentile per-packet one-way delay: 61.929 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 152.27 Mbit/s
95th percentile per-packet one-way delay: 61.929 ms
Loss rate: 0.12%
```

### Run 10: Report of TCP BBR — Data Link

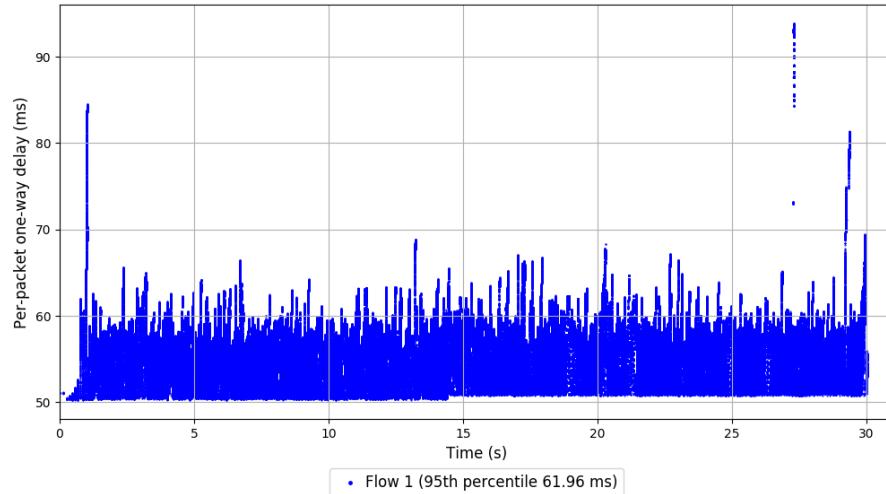
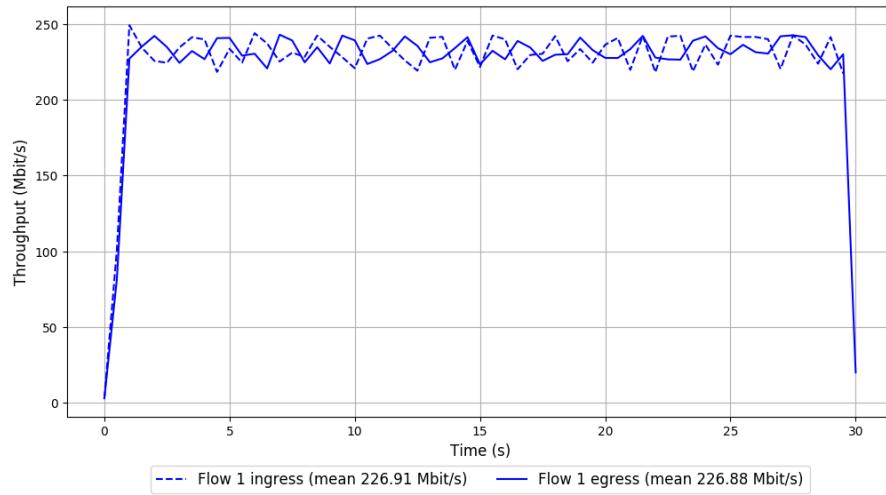


```
Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 16:58:20
End at: 2018-01-16 16:58:50

# Below is generated by plot.py at 2018-01-16 21:06:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.88 Mbit/s
95th percentile per-packet one-way delay: 61.957 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 226.88 Mbit/s
95th percentile per-packet one-way delay: 61.957 ms
Loss rate: 0.01%
```

### Run 1: Report of TCP Cubic — Data Link



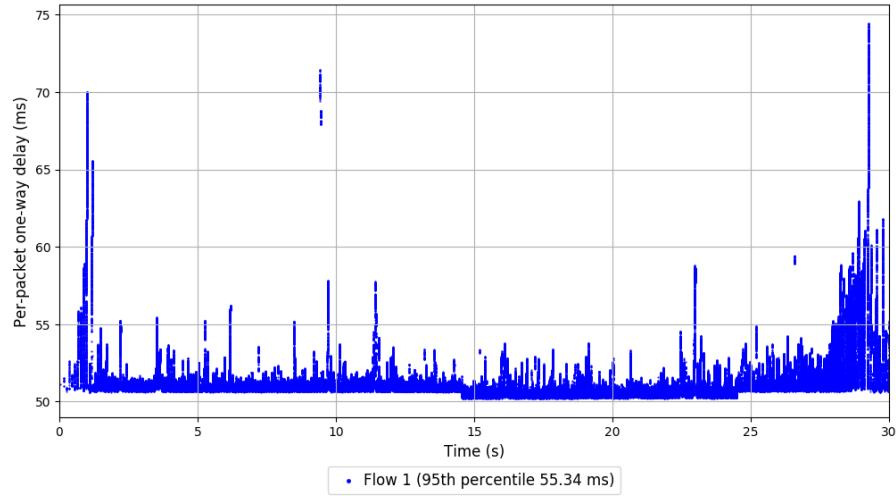
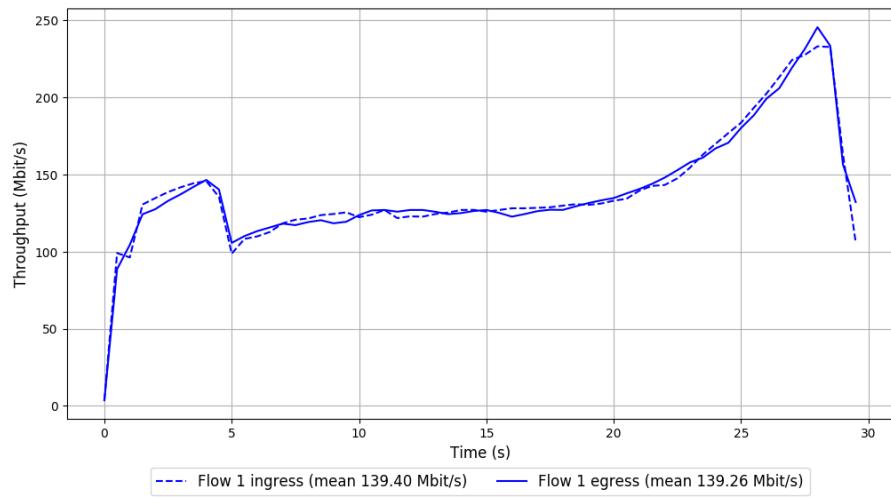
Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 17:12:40

End at: 2018-01-16 17:13:10

```
# Below is generated by plot.py at 2018-01-16 21:06:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.26 Mbit/s
95th percentile per-packet one-way delay: 55.342 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 139.26 Mbit/s
95th percentile per-packet one-way delay: 55.342 ms
Loss rate: 0.08%
```

## Run 2: Report of TCP Cubic — Data Link



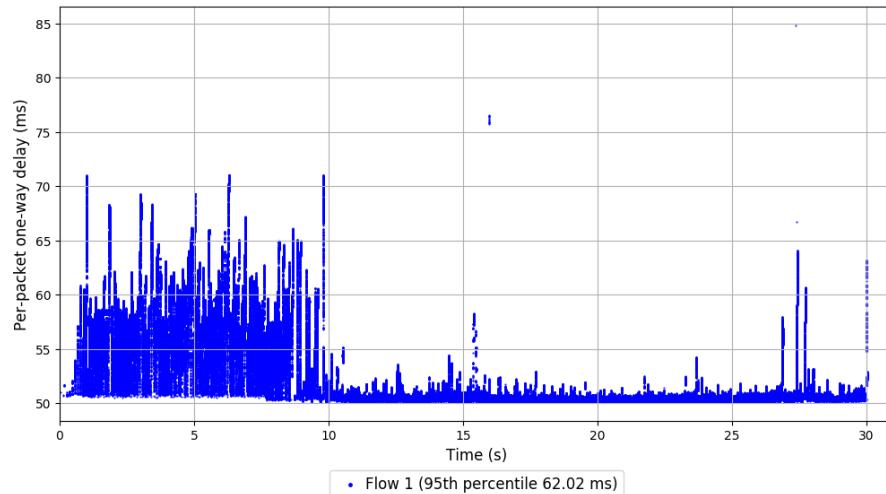
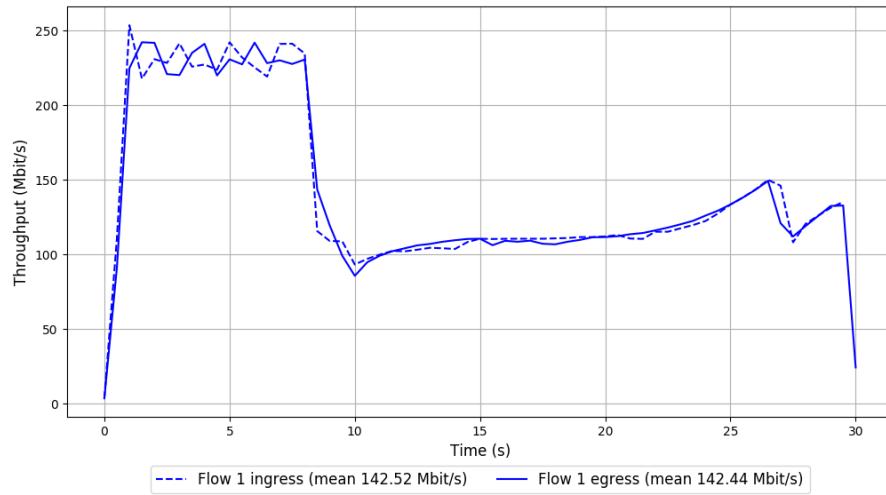
Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 17:26:57

End at: 2018-01-16 17:27:27

```
# Below is generated by plot.py at 2018-01-16 21:06:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.44 Mbit/s
95th percentile per-packet one-way delay: 62.020 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 142.44 Mbit/s
95th percentile per-packet one-way delay: 62.020 ms
Loss rate: 0.06%
```

### Run 3: Report of TCP Cubic — Data Link



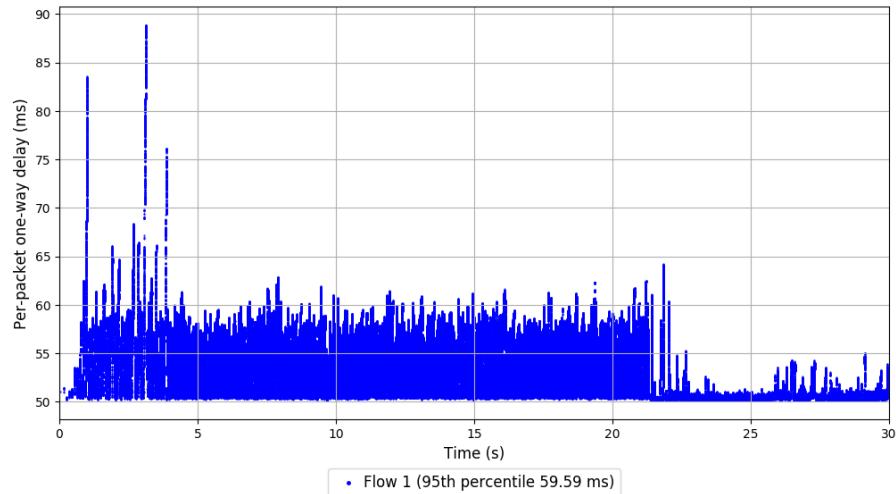
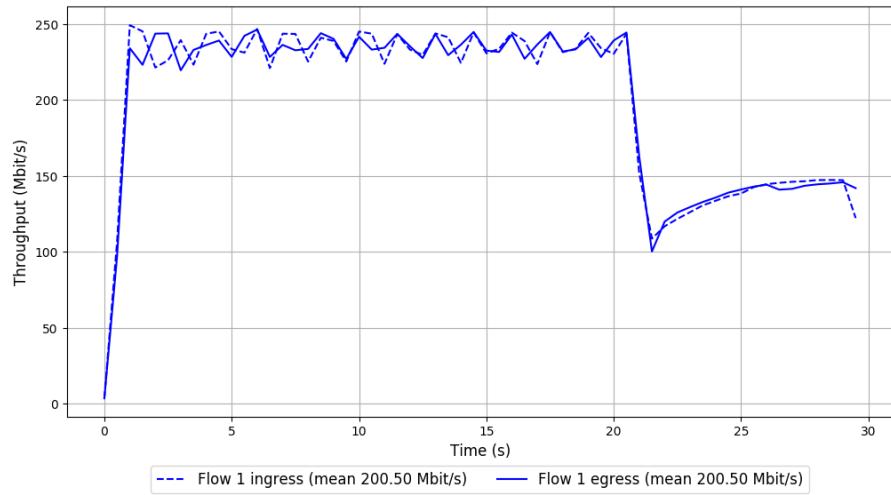
Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 17:41:03

End at: 2018-01-16 17:41:33

```
# Below is generated by plot.py at 2018-01-16 21:06:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.50 Mbit/s
95th percentile per-packet one-way delay: 59.589 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.50 Mbit/s
95th percentile per-packet one-way delay: 59.589 ms
Loss rate: 0.00%
```

#### Run 4: Report of TCP Cubic — Data Link



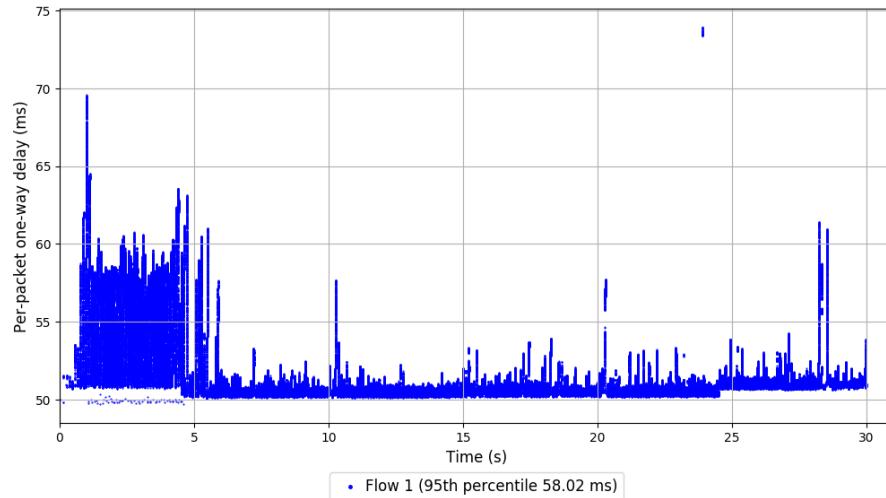
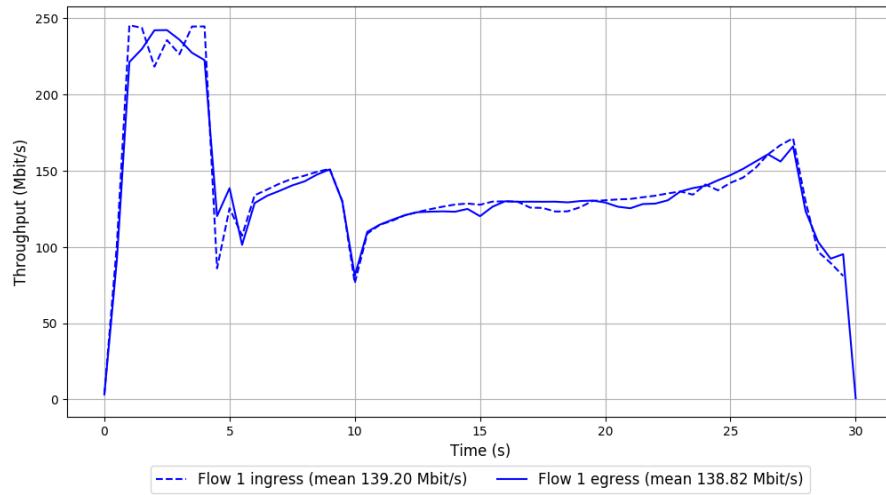
```
Run 5: Statistics of TCP Cubic
```

```
Start at: 2018-01-16 17:55:10
```

```
End at: 2018-01-16 17:55:40
```

```
# Below is generated by plot.py at 2018-01-16 21:06:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.82 Mbit/s
95th percentile per-packet one-way delay: 58.024 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 138.82 Mbit/s
95th percentile per-packet one-way delay: 58.024 ms
Loss rate: 0.27%
```

### Run 5: Report of TCP Cubic — Data Link



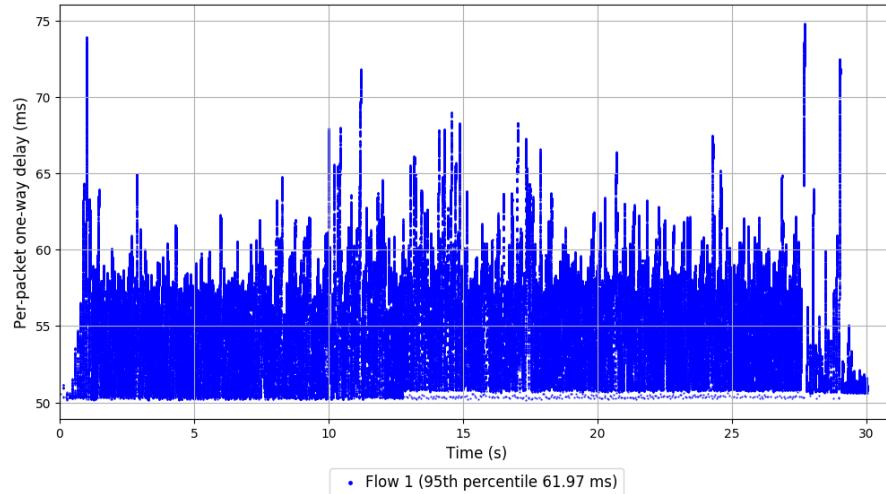
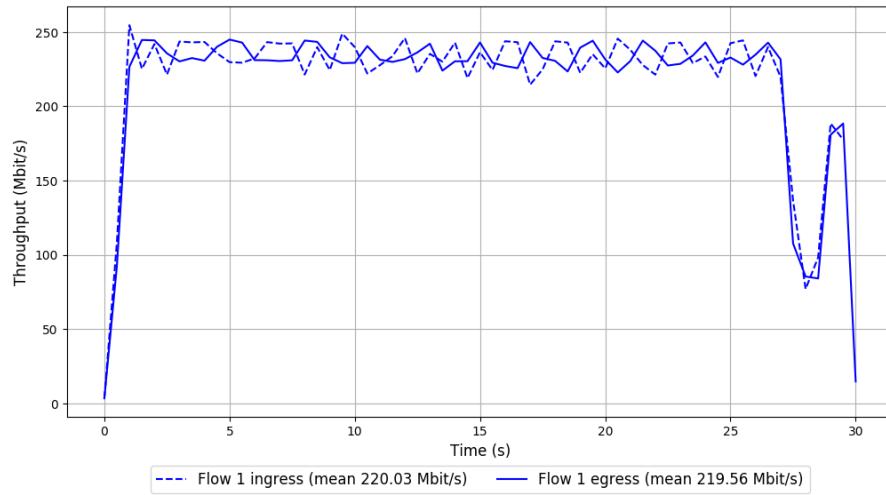
```
Run 6: Statistics of TCP Cubic
```

```
Start at: 2018-01-16 18:08:52
```

```
End at: 2018-01-16 18:09:22
```

```
# Below is generated by plot.py at 2018-01-16 21:08:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.56 Mbit/s
95th percentile per-packet one-way delay: 61.971 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 219.56 Mbit/s
95th percentile per-packet one-way delay: 61.971 ms
Loss rate: 0.21%
```

Run 6: Report of TCP Cubic — Data Link

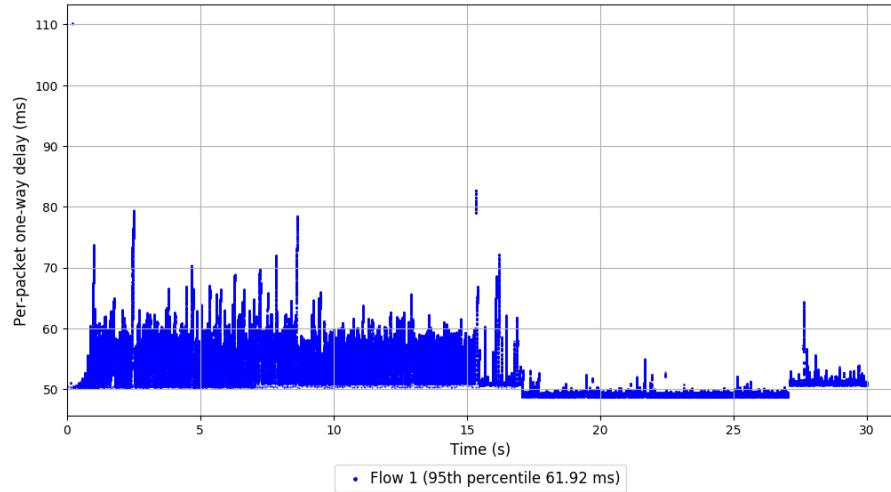
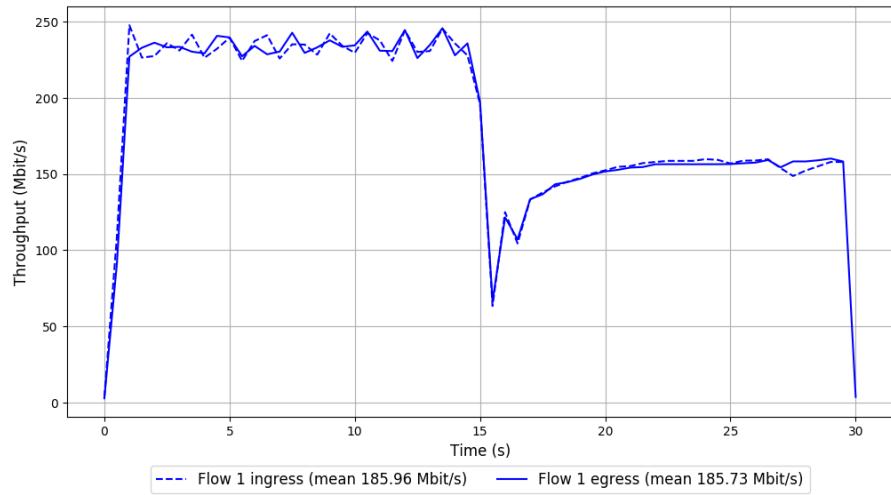


```
Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 18:22:57
End at: 2018-01-16 18:23:27

# Below is generated by plot.py at 2018-01-16 21:08:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.73 Mbit/s
95th percentile per-packet one-way delay: 61.920 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 185.73 Mbit/s
95th percentile per-packet one-way delay: 61.920 ms
Loss rate: 0.18%
```

### Run 7: Report of TCP Cubic — Data Link



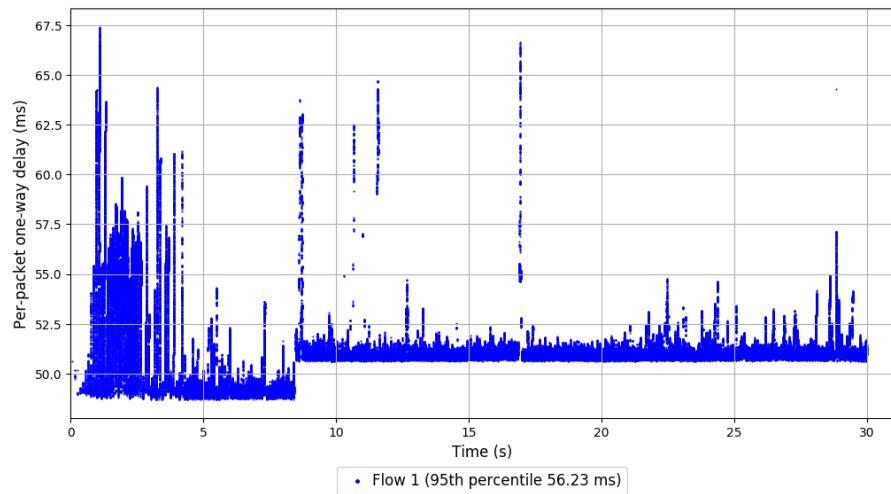
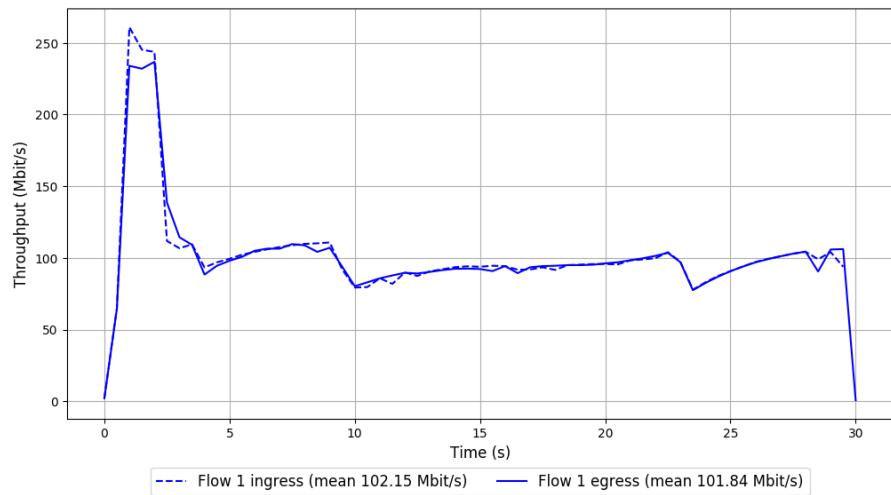
Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 18:36:56

End at: 2018-01-16 18:37:26

```
# Below is generated by plot.py at 2018-01-16 21:08:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 101.84 Mbit/s
95th percentile per-packet one-way delay: 56.225 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 101.84 Mbit/s
95th percentile per-packet one-way delay: 56.225 ms
Loss rate: 0.30%
```

Run 8: Report of TCP Cubic — Data Link



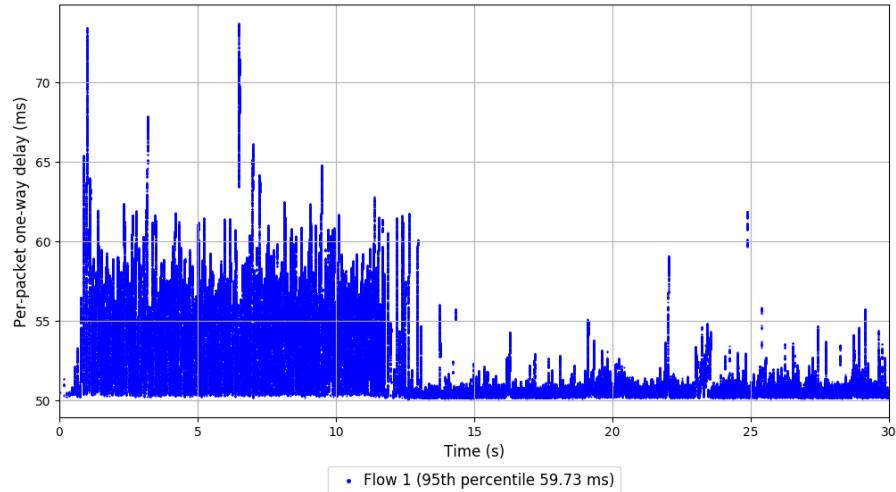
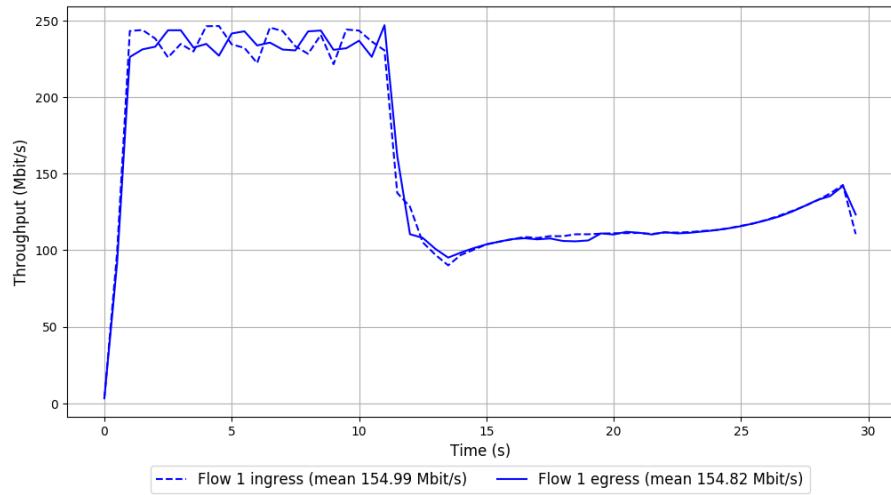
```
Run 9: Statistics of TCP Cubic
```

```
Start at: 2018-01-16 18:50:43
```

```
End at: 2018-01-16 18:51:13
```

```
# Below is generated by plot.py at 2018-01-16 21:08:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.82 Mbit/s
95th percentile per-packet one-way delay: 59.727 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 154.82 Mbit/s
95th percentile per-packet one-way delay: 59.727 ms
Loss rate: 0.11%
```

### Run 9: Report of TCP Cubic — Data Link



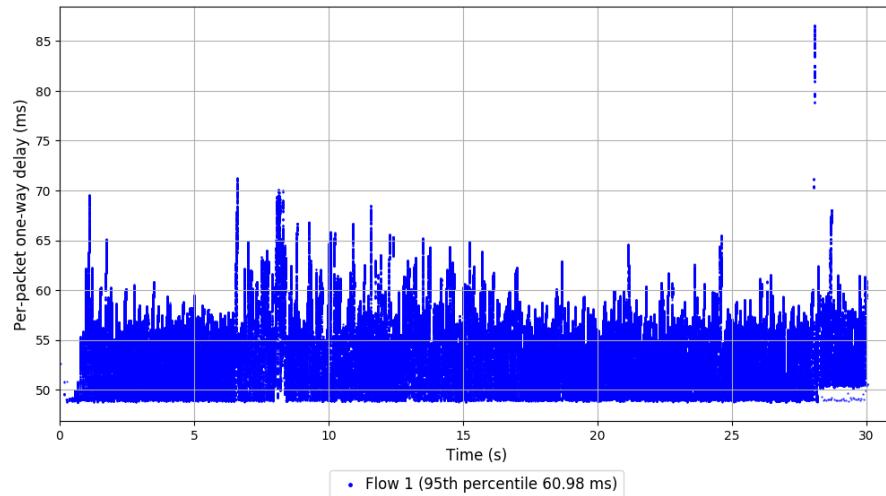
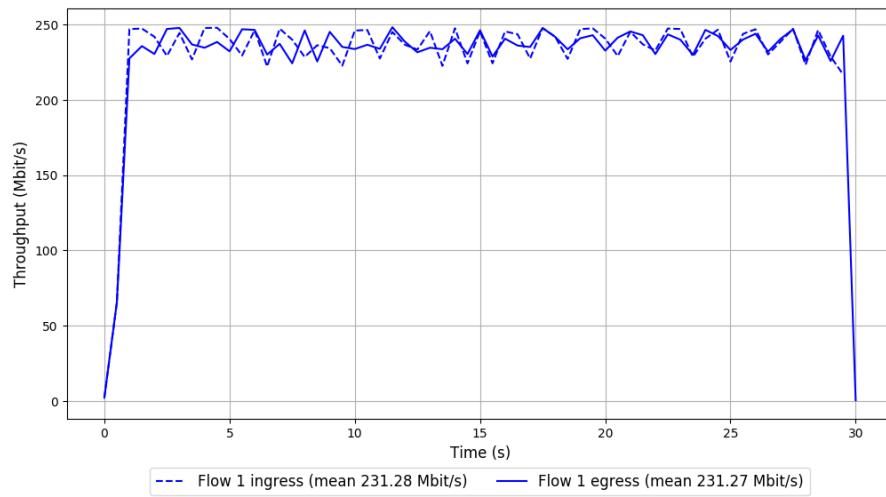
Run 10: Statistics of TCP Cubic

Start at: 2018-01-16 19:04:56

End at: 2018-01-16 19:05:26

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.27 Mbit/s
95th percentile per-packet one-way delay: 60.980 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 231.27 Mbit/s
95th percentile per-packet one-way delay: 60.980 ms
Loss rate: 0.01%
```

Run 10: Report of TCP Cubic — Data Link

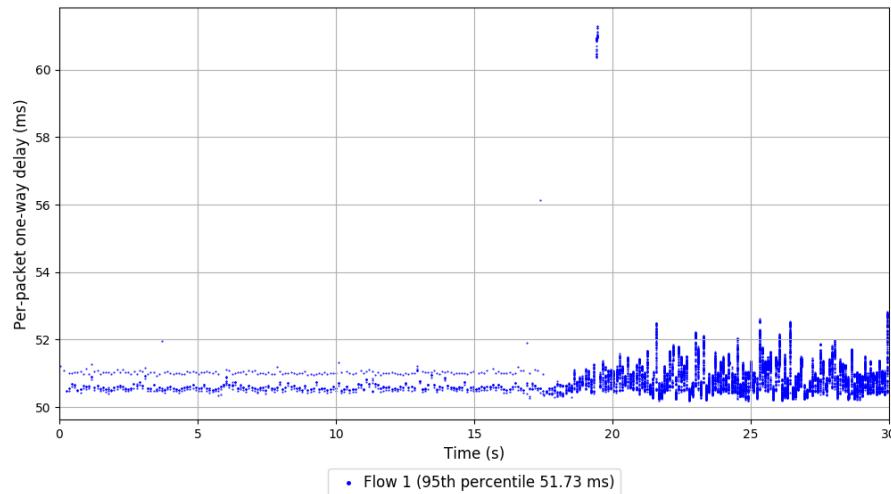
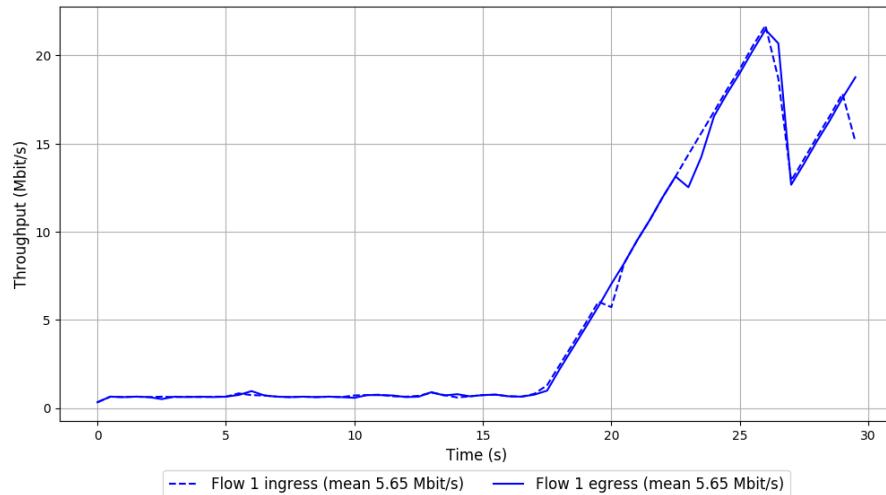


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 17:05:18
End at: 2018-01-16 17:05:48

# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 51.731 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 51.731 ms
Loss rate: 0.00%
```

## Run 1: Report of LEDBAT — Data Link



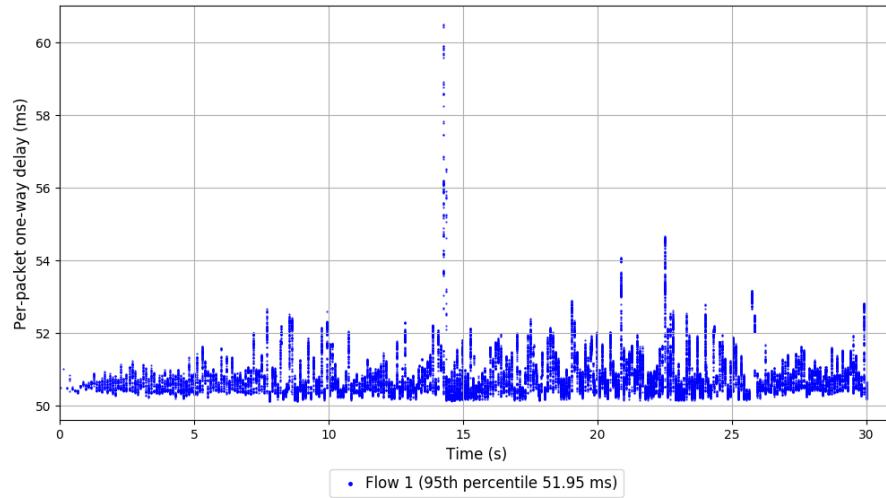
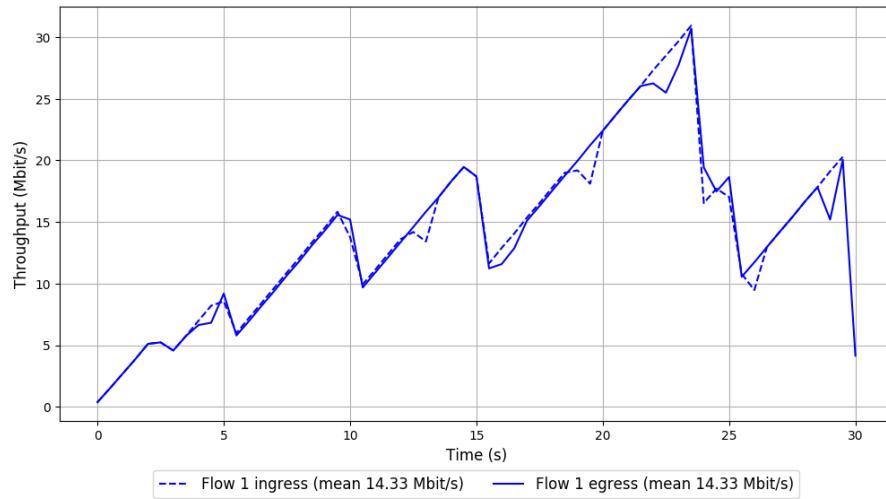
```
Run 2: Statistics of LEDBAT
```

```
Start at: 2018-01-16 17:19:42
```

```
End at: 2018-01-16 17:20:12
```

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 51.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 51.954 ms
Loss rate: 0.00%
```

## Run 2: Report of LEDBAT — Data Link



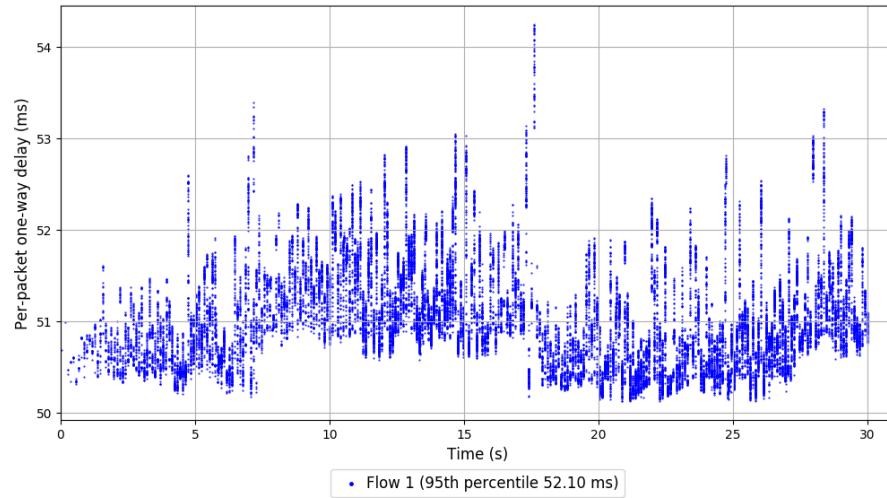
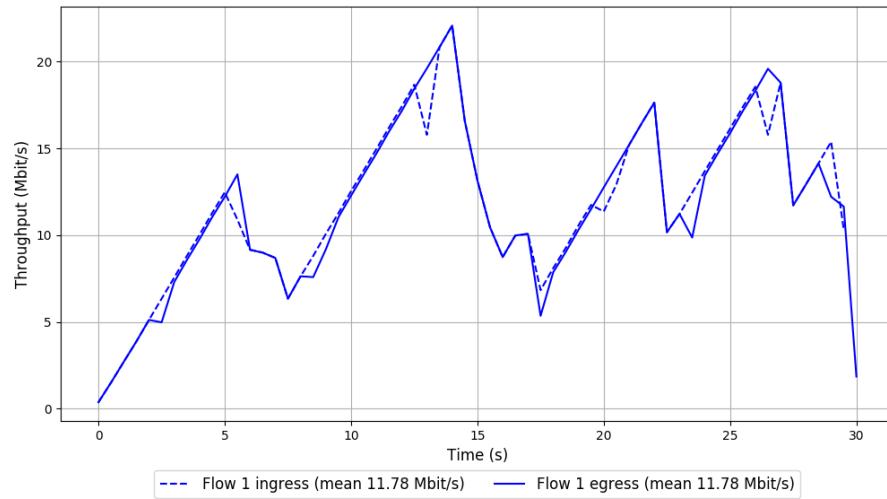
Run 3: Statistics of LEDBAT

Start at: 2018-01-16 17:33:57

End at: 2018-01-16 17:34:27

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 52.100 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.78 Mbit/s
95th percentile per-packet one-way delay: 52.100 ms
Loss rate: 0.00%
```

### Run 3: Report of LEDBAT — Data Link



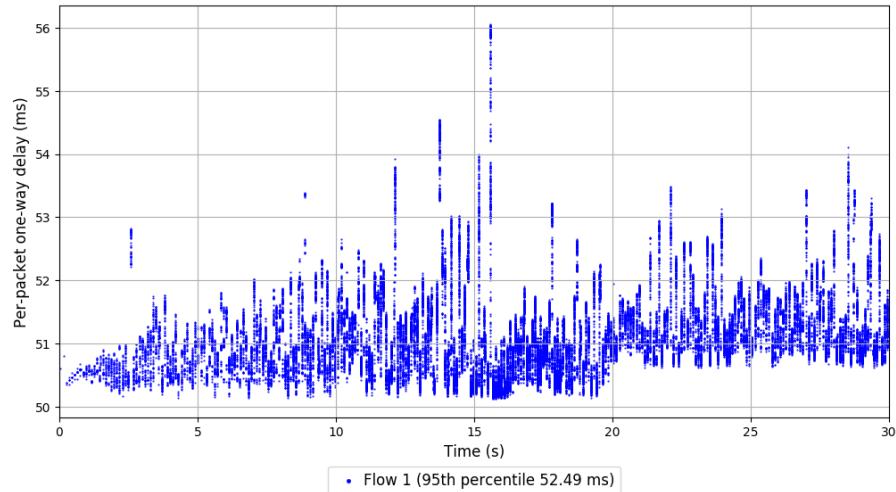
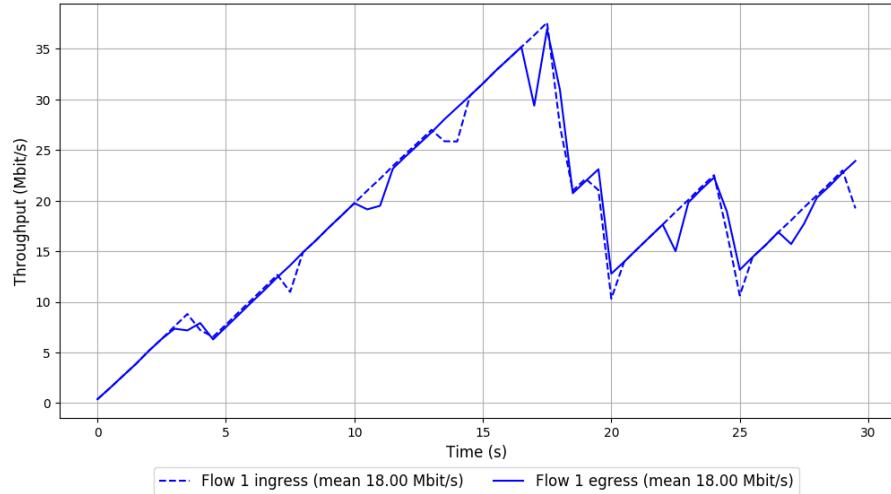
Run 4: Statistics of LEDBAT

Start at: 2018-01-16 17:47:54

End at: 2018-01-16 17:48:24

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.00 Mbit/s
95th percentile per-packet one-way delay: 52.489 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 18.00 Mbit/s
95th percentile per-packet one-way delay: 52.489 ms
Loss rate: 0.00%
```

## Run 4: Report of LEDBAT — Data Link



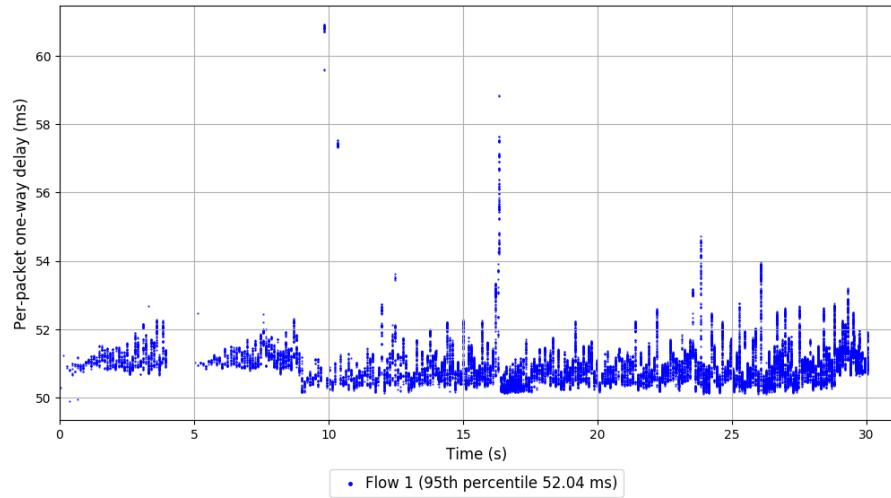
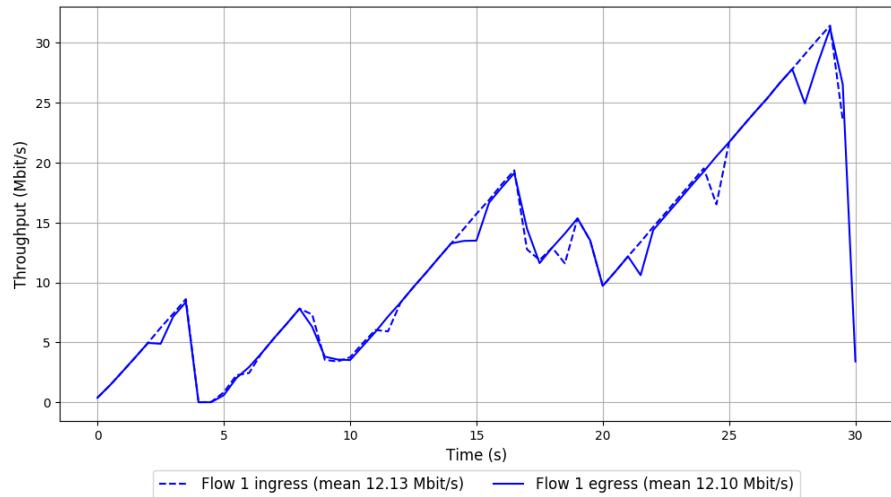
Run 5: Statistics of LEDBAT

Start at: 2018-01-16 18:01:55

End at: 2018-01-16 18:02:25

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 52.041 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 12.10 Mbit/s
95th percentile per-packet one-way delay: 52.041 ms
Loss rate: 0.25%
```

Run 5: Report of LEDBAT — Data Link



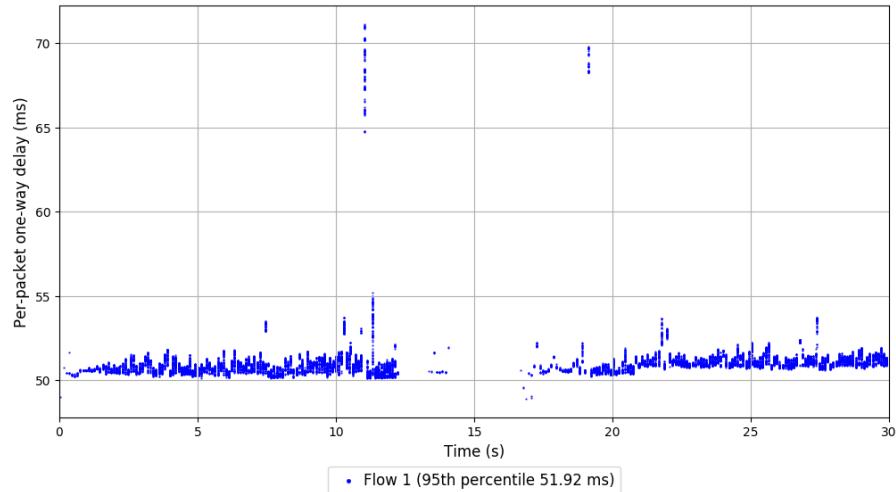
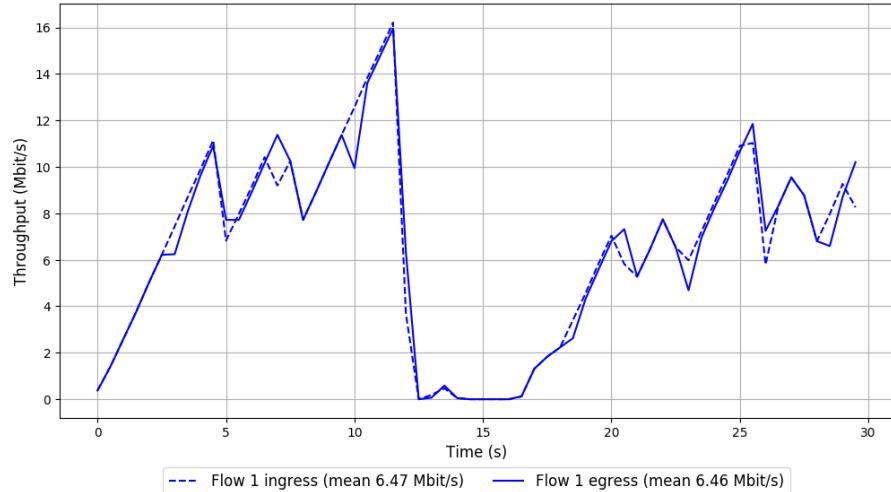
```
Run 6: Statistics of LEDBAT
```

```
Start at: 2018-01-16 18:15:54
```

```
End at: 2018-01-16 18:16:24
```

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 51.925 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 51.925 ms
Loss rate: 0.18%
```

## Run 6: Report of LEDBAT — Data Link



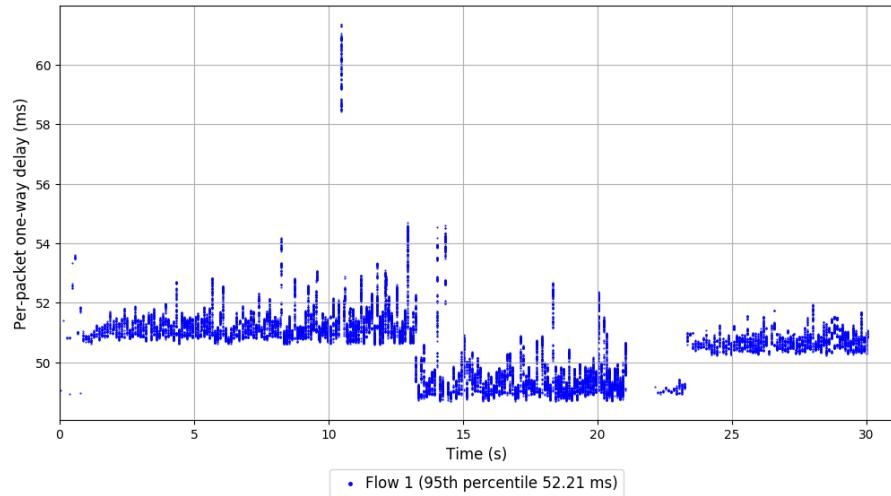
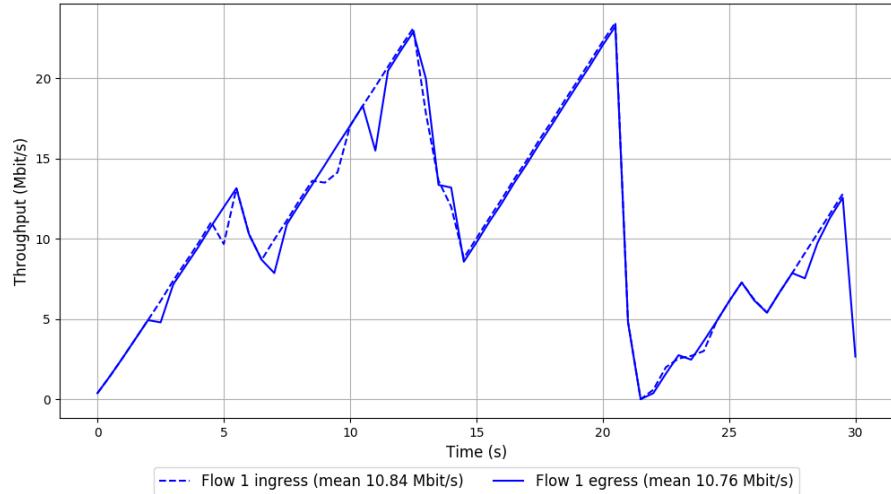
Run 7: Statistics of LEDBAT

Start at: 2018-01-16 18:29:51

End at: 2018-01-16 18:30:21

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 52.207 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 52.207 ms
Loss rate: 0.75%
```

### Run 7: Report of LEDBAT — Data Link



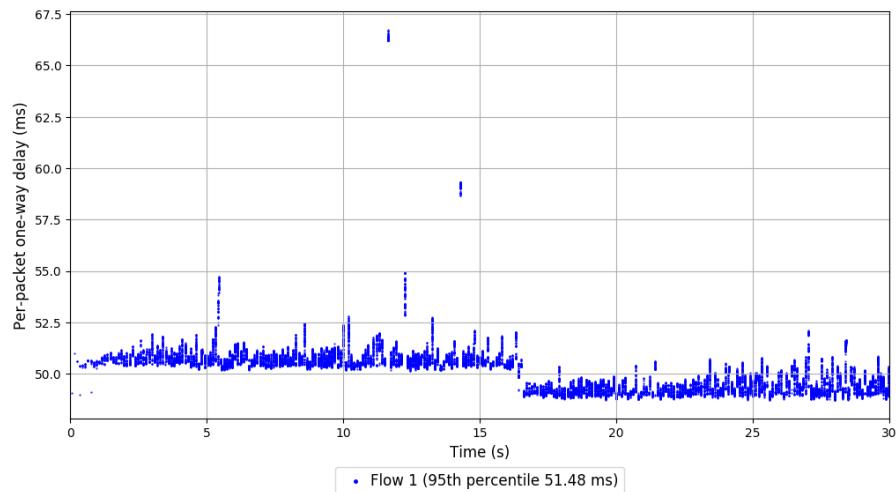
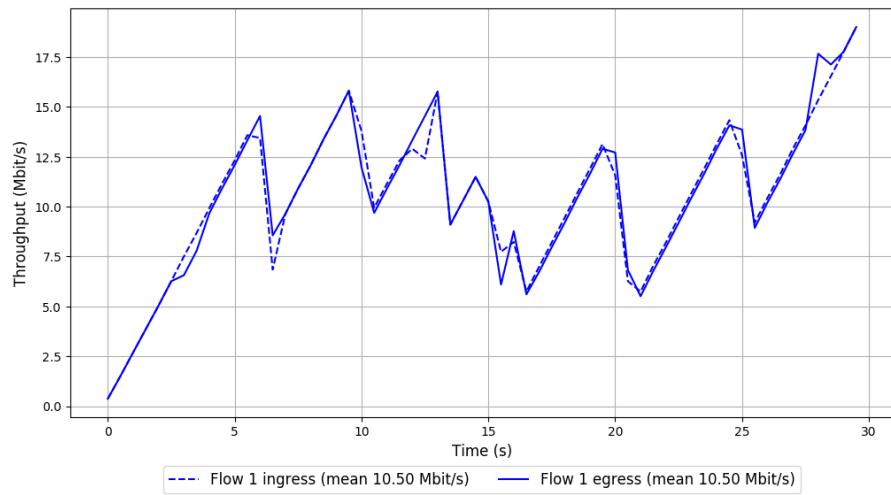
Run 8: Statistics of LEDBAT

Start at: 2018-01-16 18:43:38

End at: 2018-01-16 18:44:08

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 51.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 51.476 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link



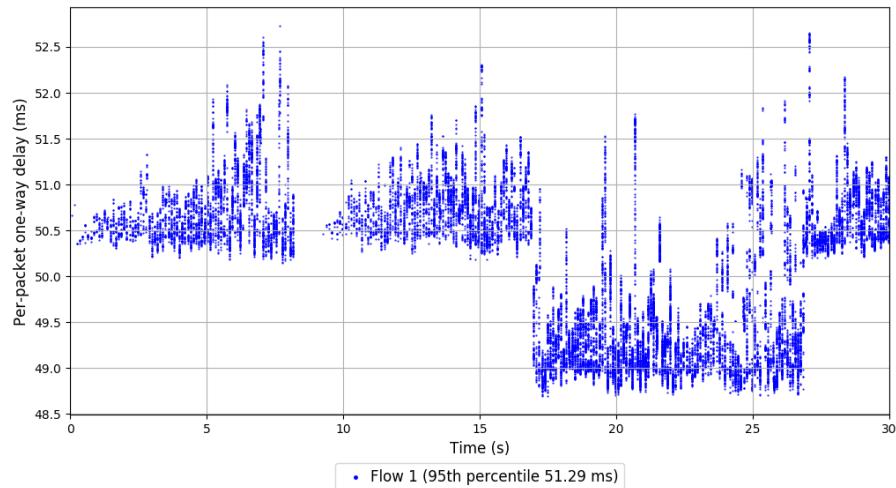
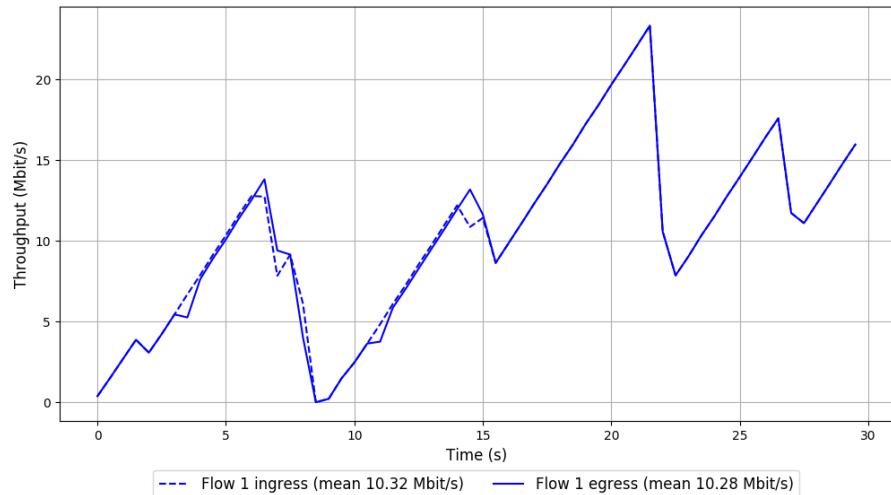
Run 9: Statistics of LEDBAT

Start at: 2018-01-16 18:57:57

End at: 2018-01-16 18:58:27

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 51.290 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 51.290 ms
Loss rate: 0.34%
```

### Run 9: Report of LEDBAT — Data Link



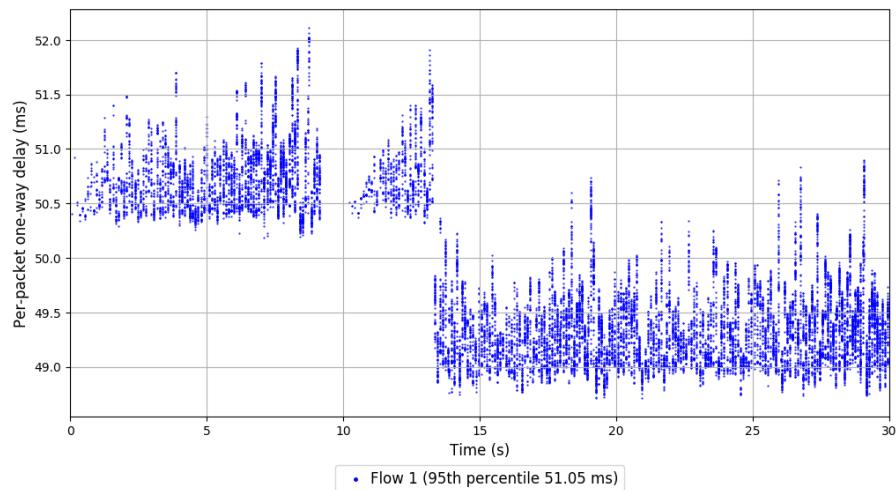
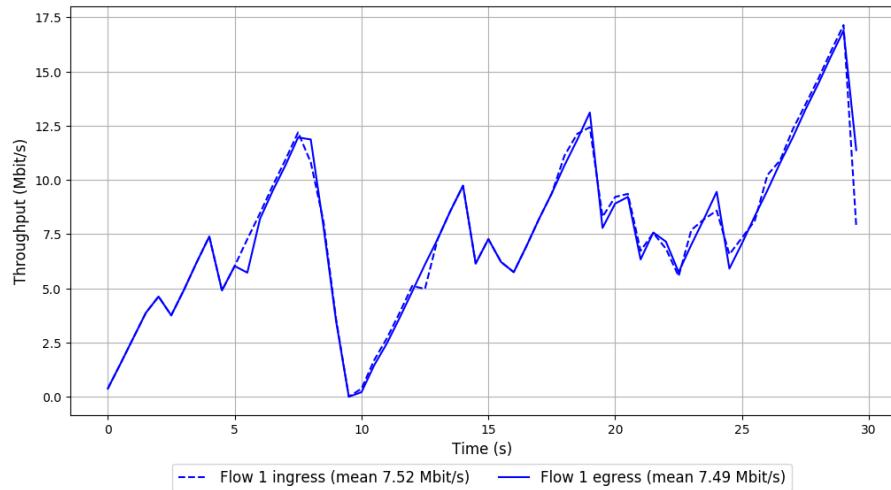
Run 10: Statistics of LEDBAT

Start at: 2018-01-16 19:12:11

End at: 2018-01-16 19:12:41

```
# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 51.053 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 51.053 ms
Loss rate: 0.40%
```

## Run 10: Report of LEDBAT — Data Link



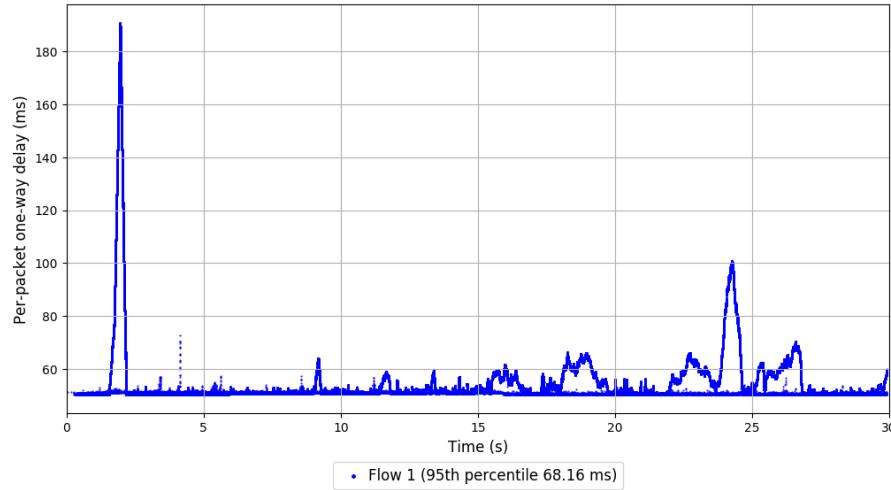
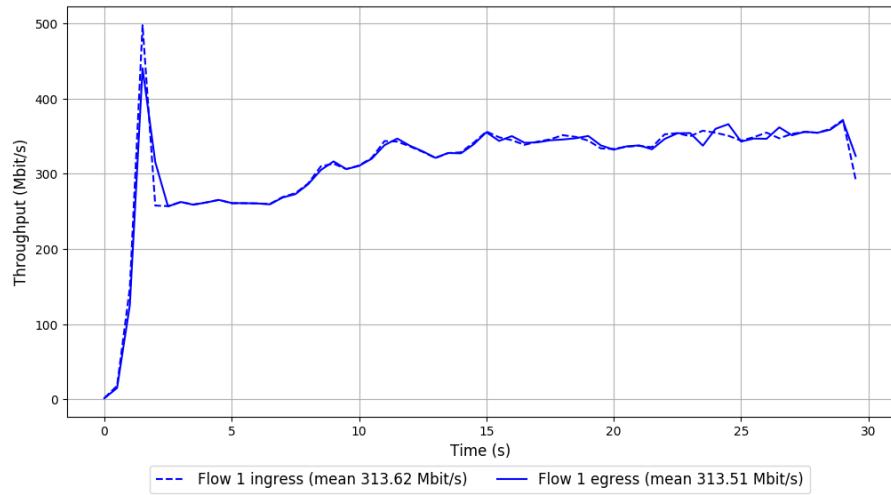
Run 1: Statistics of PCC

Start at: 2018-01-16 16:59:08

End at: 2018-01-16 16:59:38

```
# Below is generated by plot.py at 2018-01-16 21:12:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.51 Mbit/s
95th percentile per-packet one-way delay: 68.159 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 313.51 Mbit/s
95th percentile per-packet one-way delay: 68.159 ms
Loss rate: 0.04%
```

### Run 1: Report of PCC — Data Link



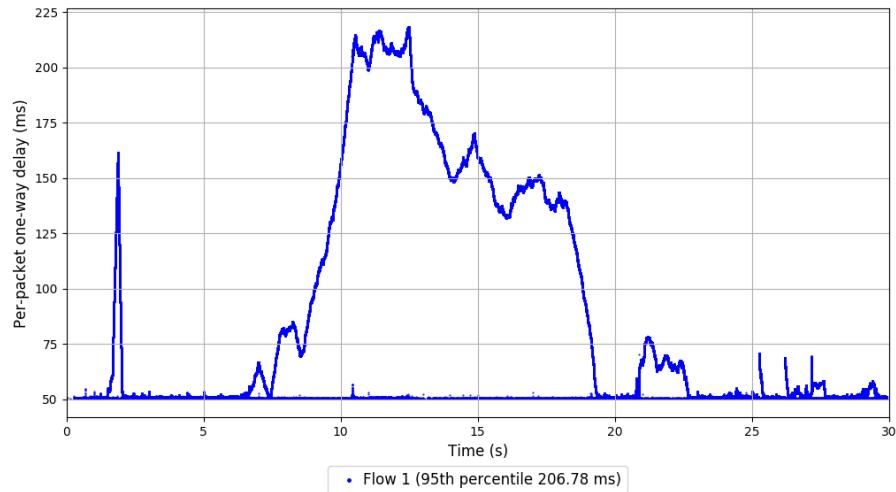
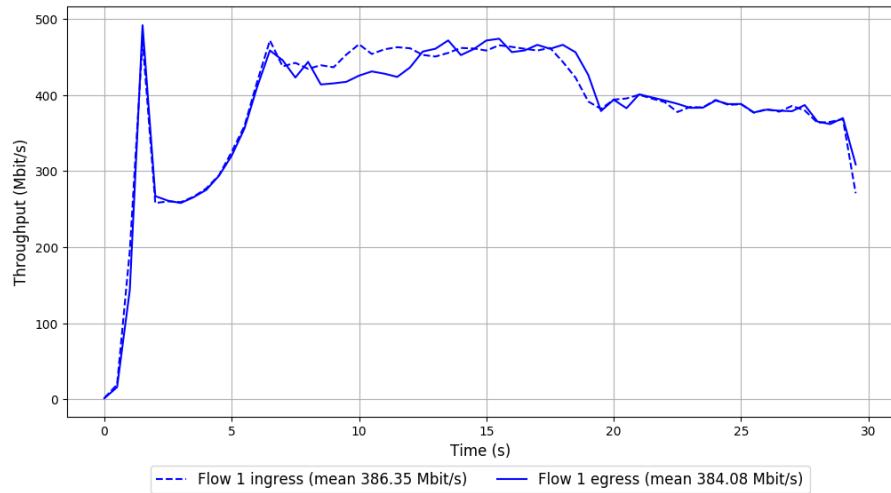
Run 2: Statistics of PCC

Start at: 2018-01-16 17:13:24

End at: 2018-01-16 17:13:54

```
# Below is generated by plot.py at 2018-01-16 21:13:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.08 Mbit/s
95th percentile per-packet one-way delay: 206.783 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 384.08 Mbit/s
95th percentile per-packet one-way delay: 206.783 ms
Loss rate: 0.59%
```

## Run 2: Report of PCC — Data Link



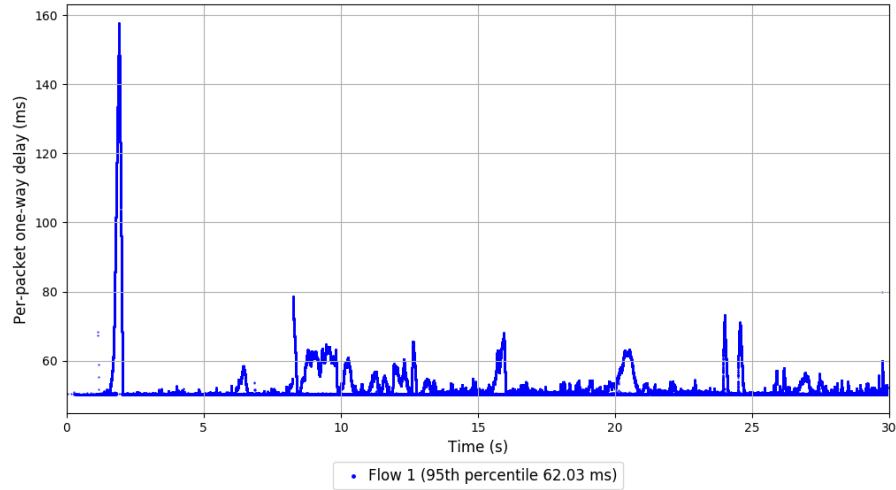
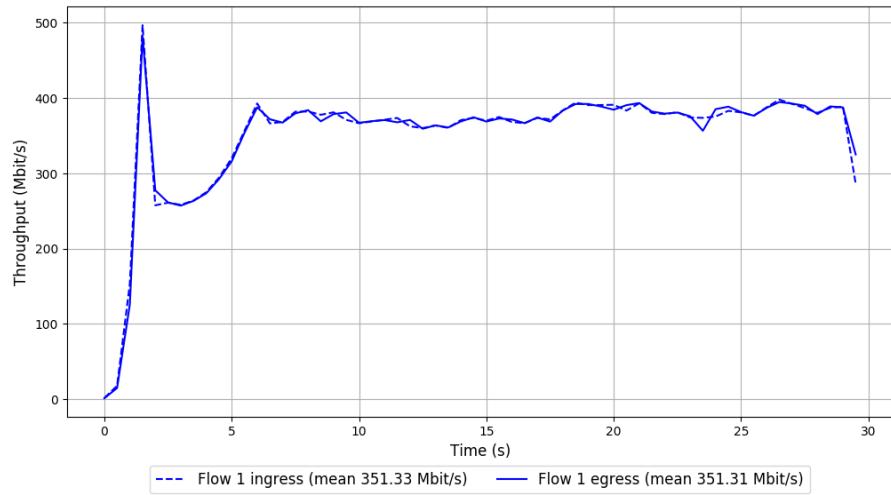
Run 3: Statistics of PCC

Start at: 2018-01-16 17:27:41

End at: 2018-01-16 17:28:11

```
# Below is generated by plot.py at 2018-01-16 21:13:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 351.31 Mbit/s
95th percentile per-packet one-way delay: 62.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 351.31 Mbit/s
95th percentile per-packet one-way delay: 62.034 ms
Loss rate: 0.00%
```

### Run 3: Report of PCC — Data Link



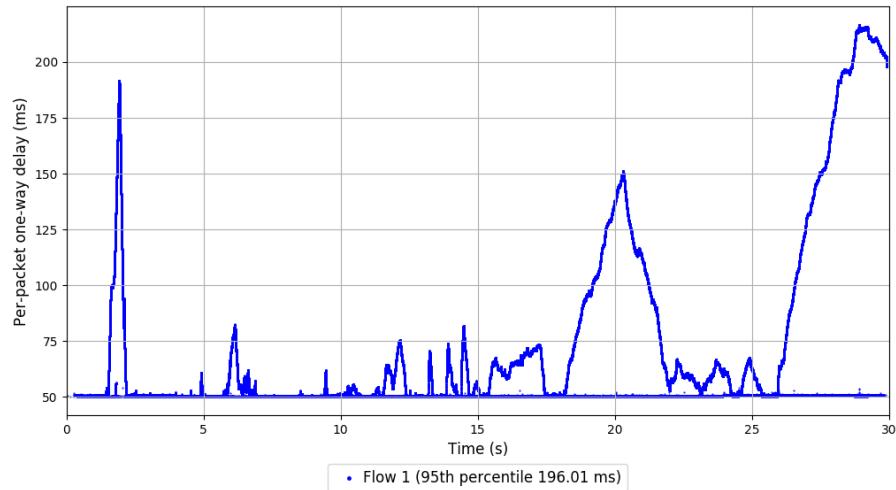
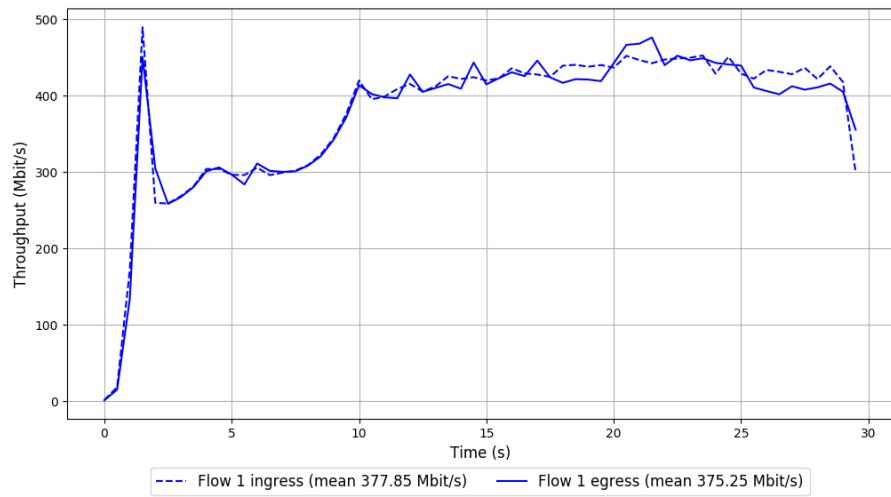
Run 4: Statistics of PCC

Start at: 2018-01-16 17:41:50

End at: 2018-01-16 17:42:20

```
# Below is generated by plot.py at 2018-01-16 21:13:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 375.25 Mbit/s
95th percentile per-packet one-way delay: 196.006 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 375.25 Mbit/s
95th percentile per-packet one-way delay: 196.006 ms
Loss rate: 0.69%
```

## Run 4: Report of PCC — Data Link



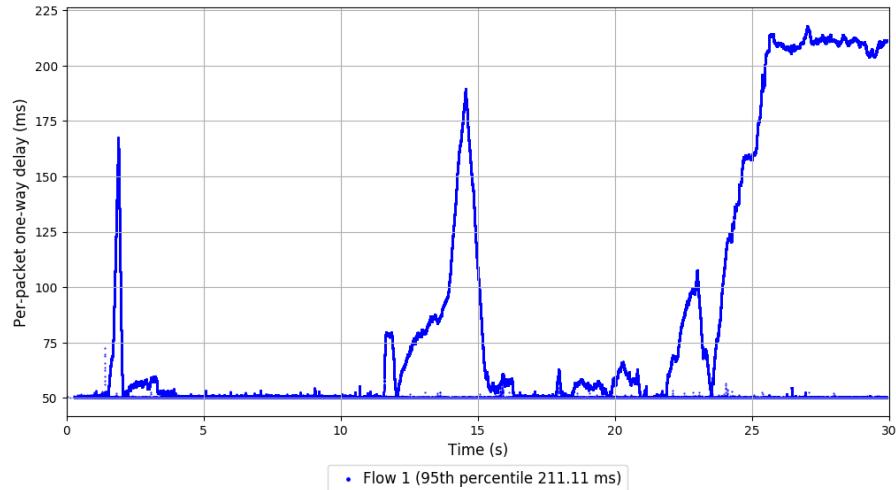
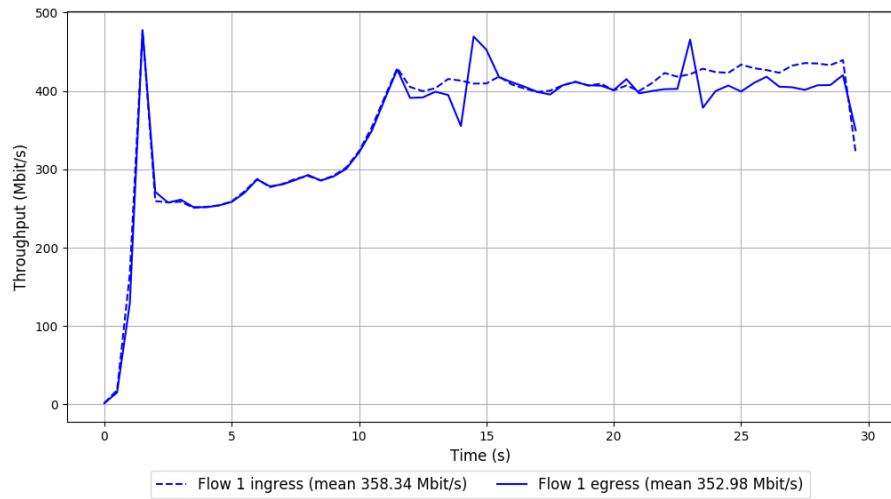
Run 5: Statistics of PCC

Start at: 2018-01-16 17:55:54

End at: 2018-01-16 17:56:24

```
# Below is generated by plot.py at 2018-01-16 21:13:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.98 Mbit/s
95th percentile per-packet one-way delay: 211.112 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 352.98 Mbit/s
95th percentile per-packet one-way delay: 211.112 ms
Loss rate: 1.49%
```

### Run 5: Report of PCC — Data Link



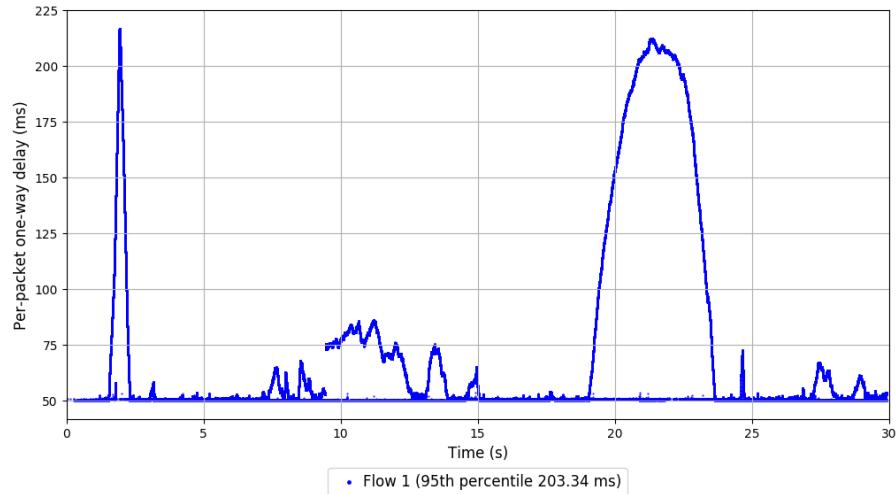
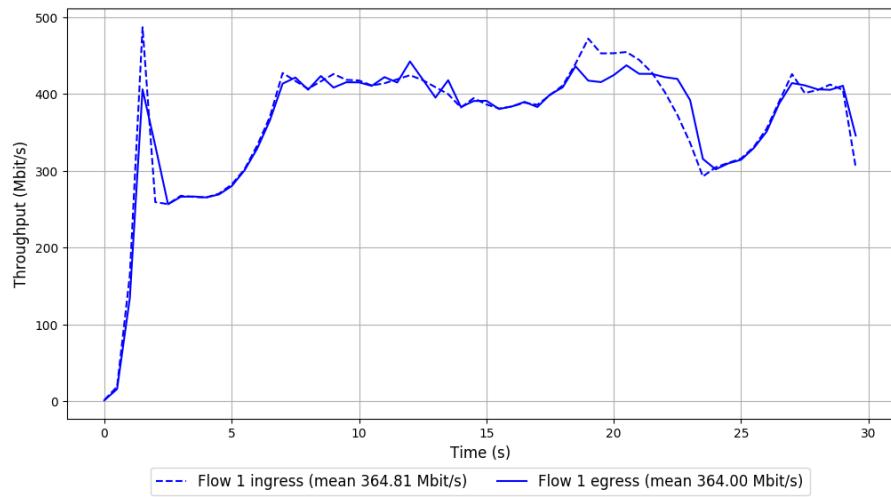
Run 6: Statistics of PCC

Start at: 2018-01-16 18:09:40

End at: 2018-01-16 18:10:10

```
# Below is generated by plot.py at 2018-01-16 21:14:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.00 Mbit/s
95th percentile per-packet one-way delay: 203.345 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 364.00 Mbit/s
95th percentile per-packet one-way delay: 203.345 ms
Loss rate: 0.22%
```

## Run 6: Report of PCC — Data Link



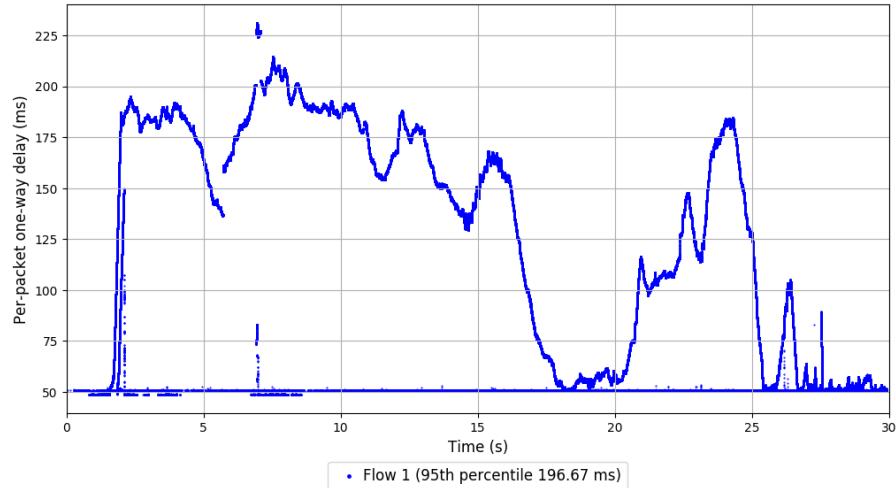
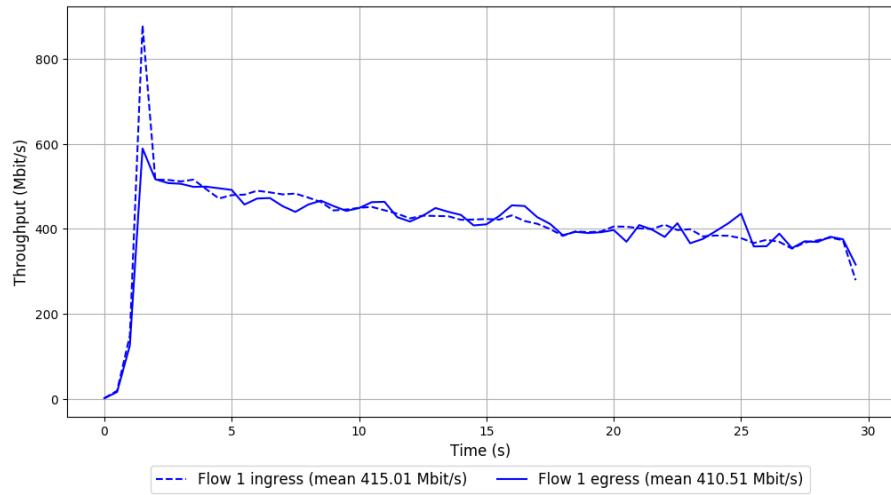
Run 7: Statistics of PCC

Start at: 2018-01-16 18:23:43

End at: 2018-01-16 18:24:13

```
# Below is generated by plot.py at 2018-01-16 21:15:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 410.51 Mbit/s
95th percentile per-packet one-way delay: 196.670 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 410.51 Mbit/s
95th percentile per-packet one-way delay: 196.670 ms
Loss rate: 1.09%
```

## Run 7: Report of PCC — Data Link



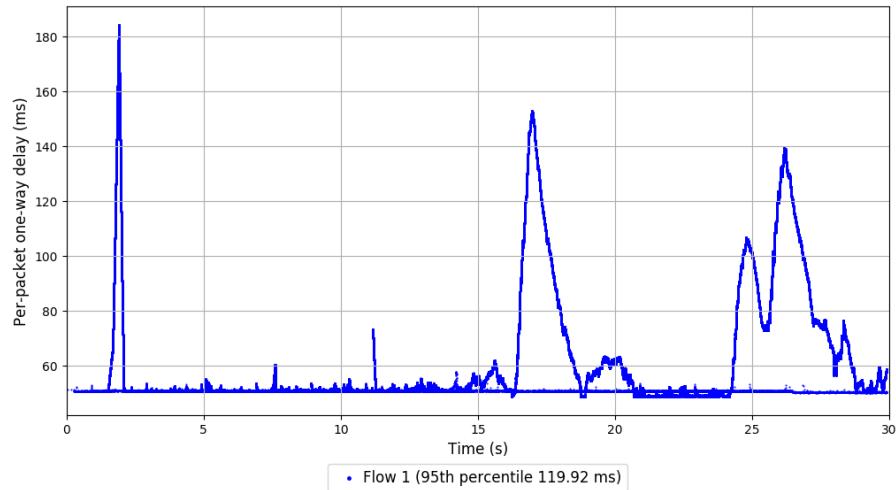
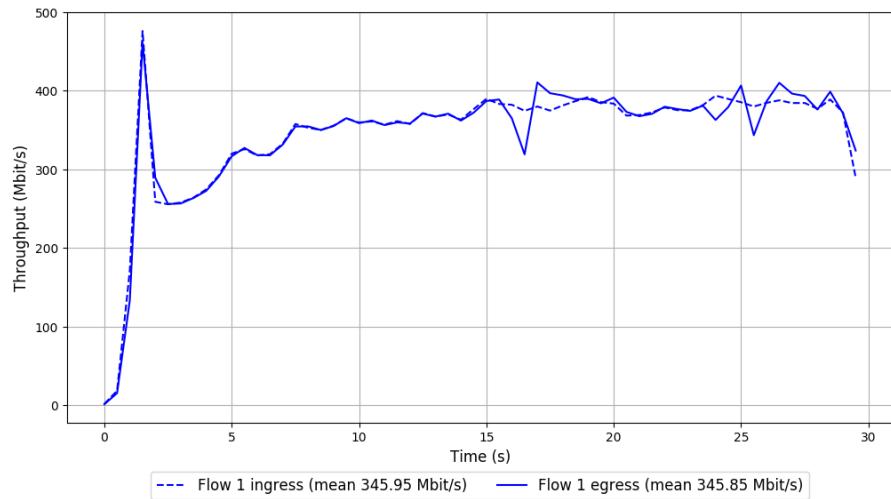
Run 8: Statistics of PCC

Start at: 2018-01-16 18:37:38

End at: 2018-01-16 18:38:08

```
# Below is generated by plot.py at 2018-01-16 21:15:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.85 Mbit/s
95th percentile per-packet one-way delay: 119.916 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 345.85 Mbit/s
95th percentile per-packet one-way delay: 119.916 ms
Loss rate: 0.03%
```

### Run 8: Report of PCC — Data Link



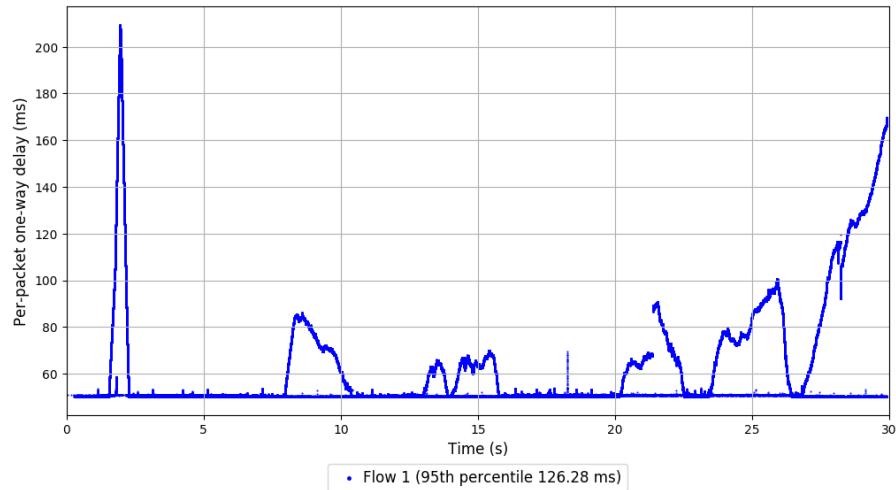
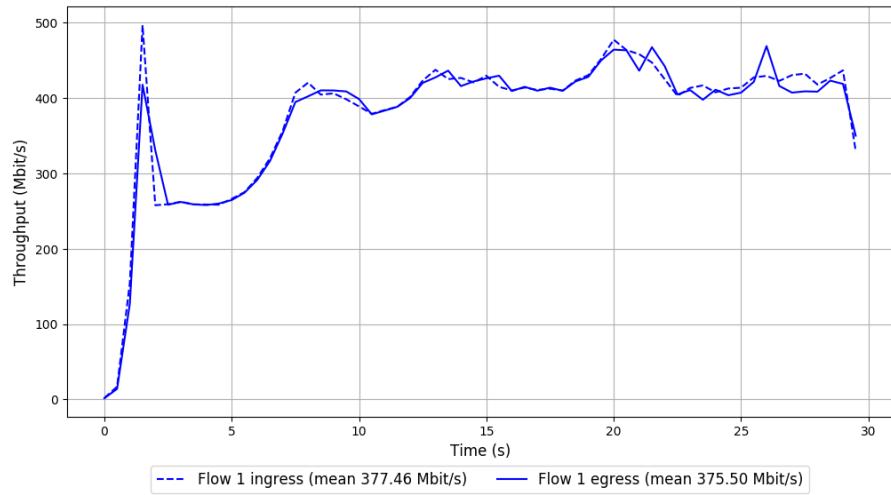
Run 9: Statistics of PCC

Start at: 2018-01-16 18:51:28

End at: 2018-01-16 18:51:58

```
# Below is generated by plot.py at 2018-01-16 21:18:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 375.50 Mbit/s
95th percentile per-packet one-way delay: 126.285 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 375.50 Mbit/s
95th percentile per-packet one-way delay: 126.285 ms
Loss rate: 0.52%
```

### Run 9: Report of PCC — Data Link



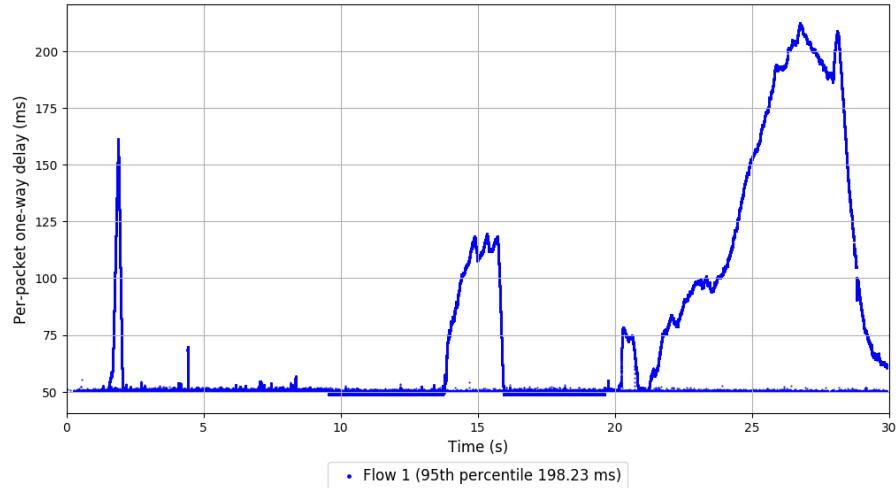
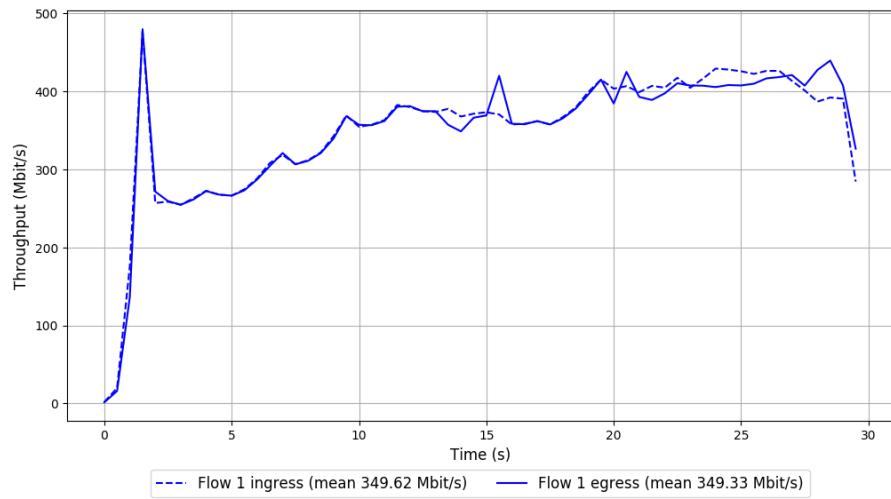
Run 10: Statistics of PCC

Start at: 2018-01-16 19:05:45

End at: 2018-01-16 19:06:15

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 349.33 Mbit/s
95th percentile per-packet one-way delay: 198.230 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 349.33 Mbit/s
95th percentile per-packet one-way delay: 198.230 ms
Loss rate: 0.08%
```

## Run 10: Report of PCC — Data Link

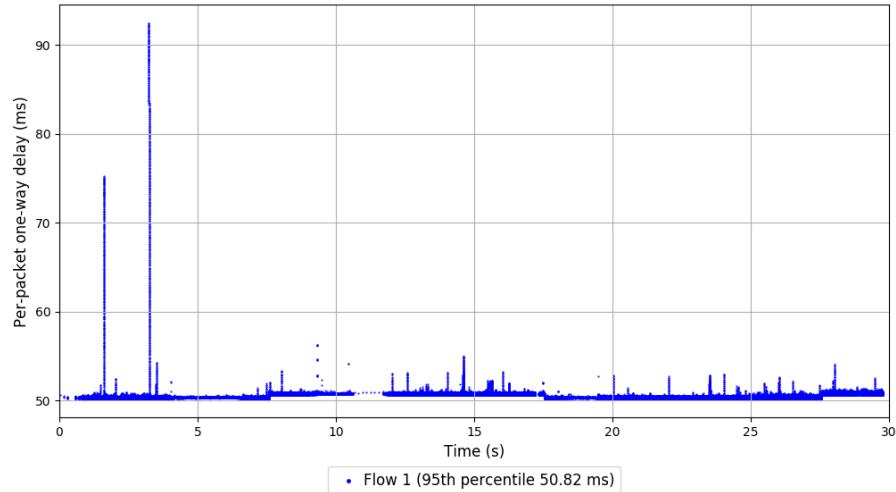
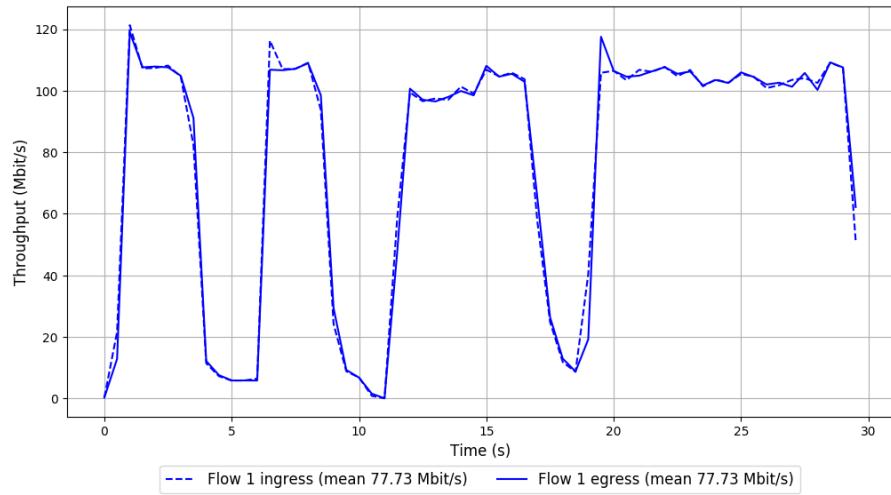


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 17:04:37
End at: 2018-01-16 17:05:07

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 50.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 50.824 ms
Loss rate: 0.00%
```

## Run 1: Report of QUIC Cubic — Data Link



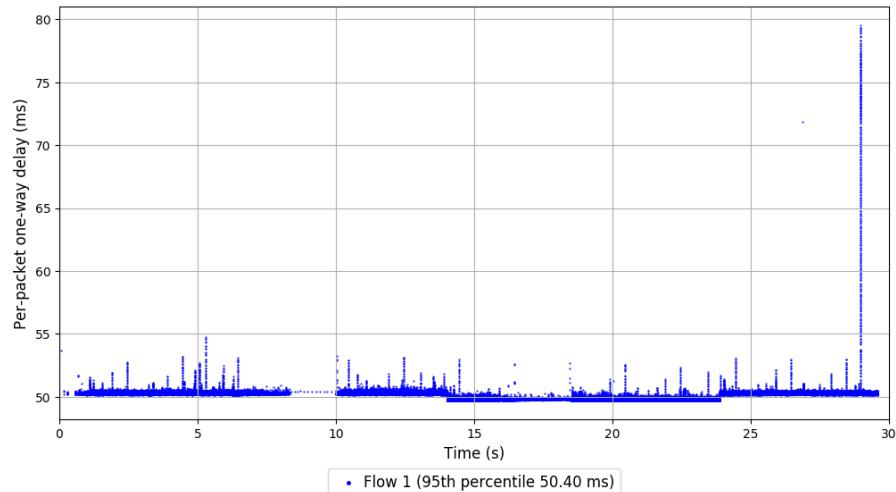
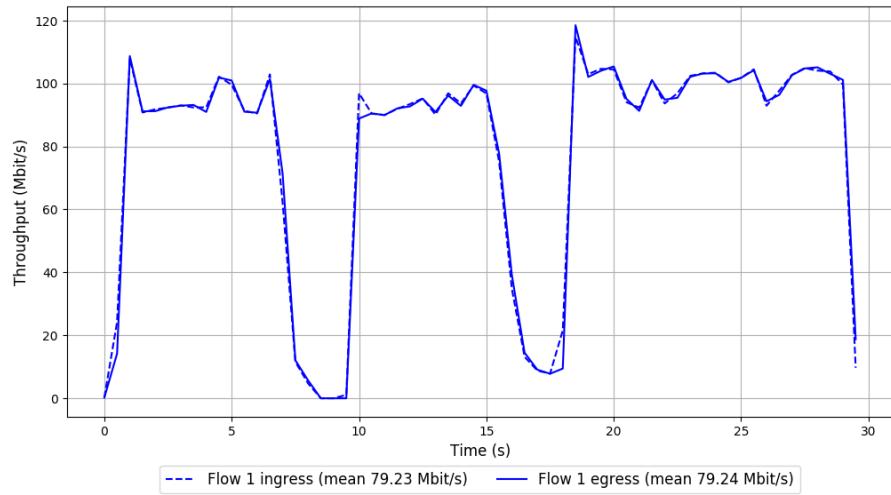
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 17:19:00

End at: 2018-01-16 17:19:30

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 50.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 50.399 ms
Loss rate: 0.00%
```

## Run 2: Report of QUIC Cubic — Data Link



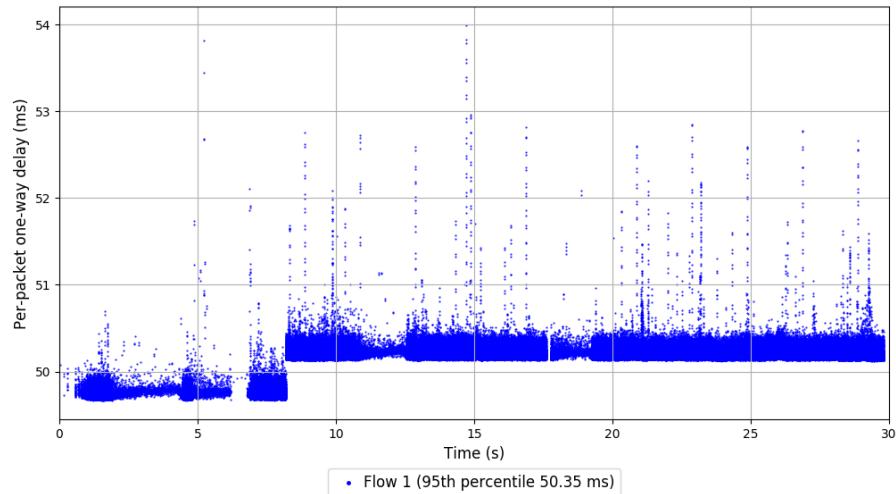
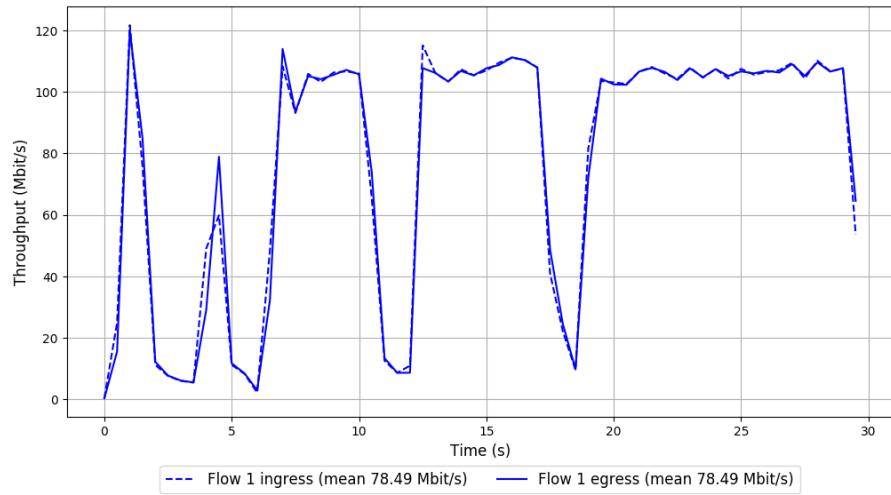
Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 17:33:16

End at: 2018-01-16 17:33:46

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.49 Mbit/s
95th percentile per-packet one-way delay: 50.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.49 Mbit/s
95th percentile per-packet one-way delay: 50.354 ms
Loss rate: 0.00%
```

### Run 3: Report of QUIC Cubic — Data Link



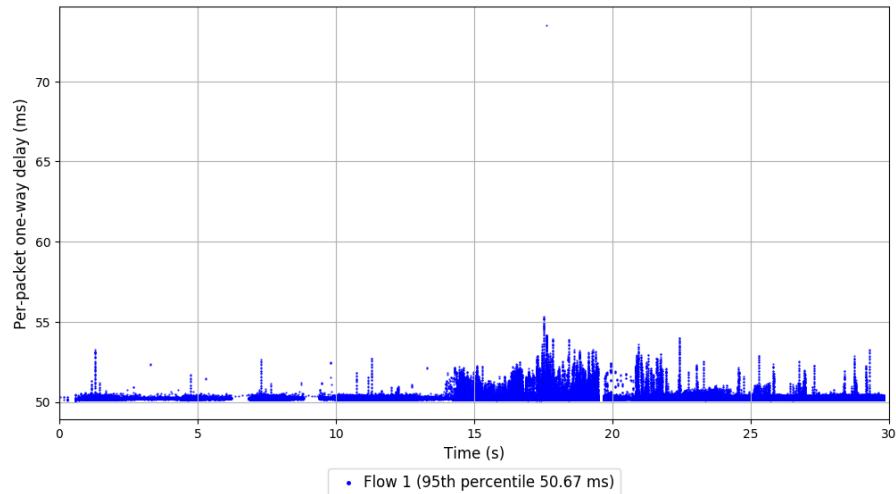
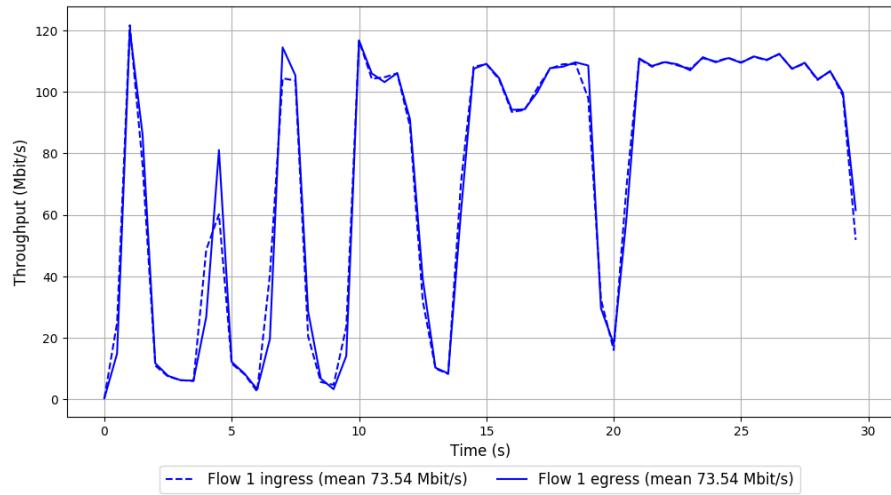
Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 17:47:13

End at: 2018-01-16 17:47:43

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.54 Mbit/s
95th percentile per-packet one-way delay: 50.668 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.54 Mbit/s
95th percentile per-packet one-way delay: 50.668 ms
Loss rate: 0.00%
```

## Run 4: Report of QUIC Cubic — Data Link



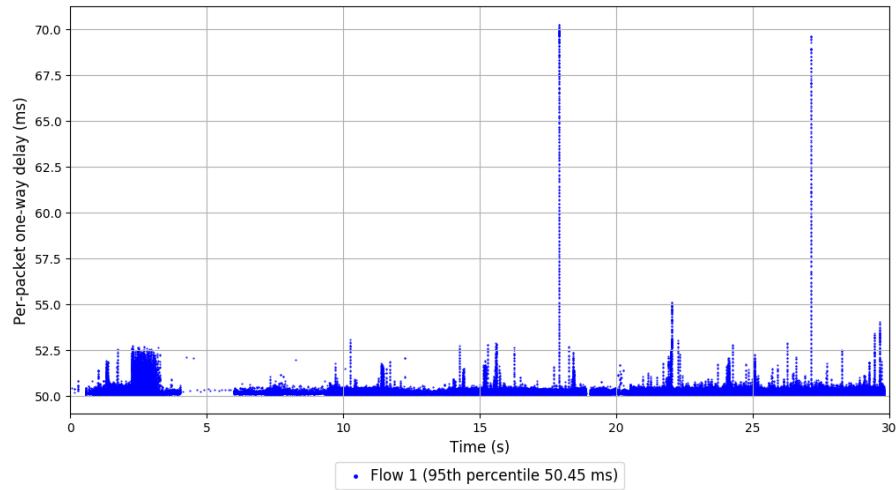
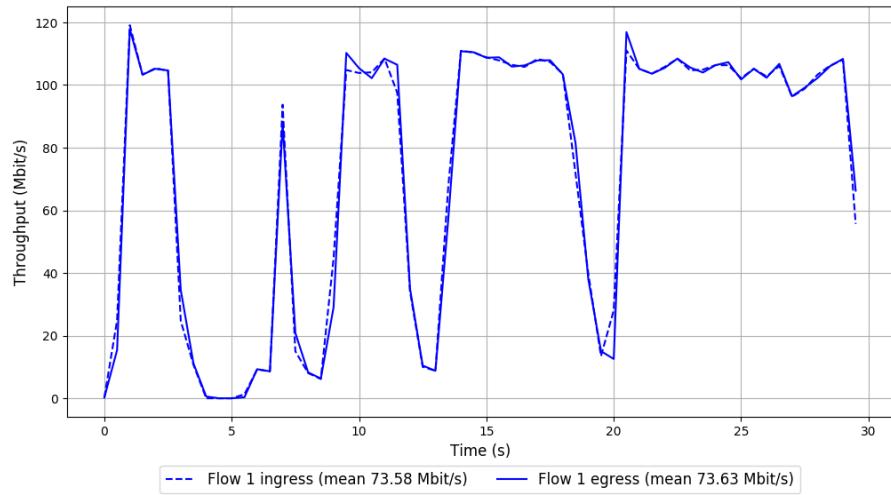
Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 18:01:15

End at: 2018-01-16 18:01:45

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.63 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.63 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.00%
```

## Run 5: Report of QUIC Cubic — Data Link



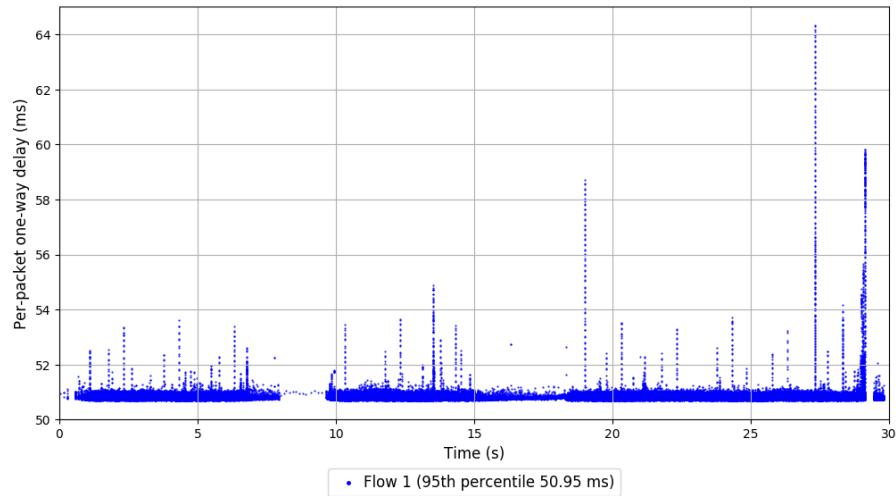
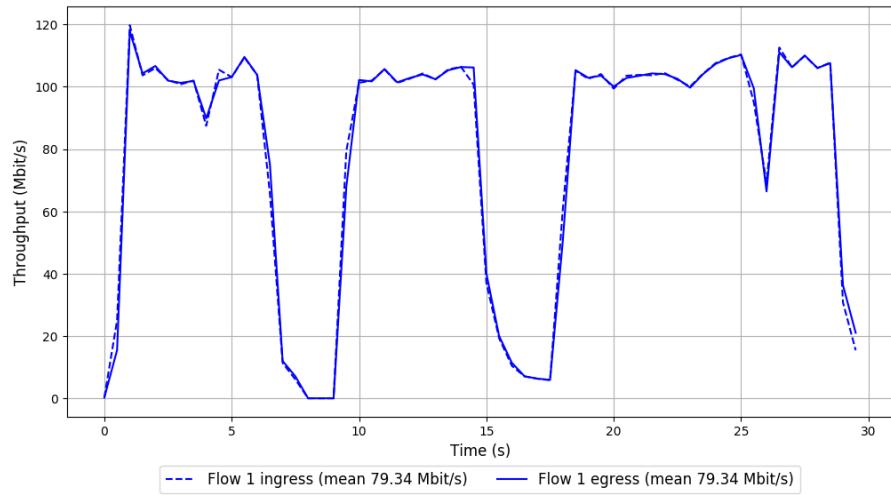
Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 18:15:12

End at: 2018-01-16 18:15:42

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.34 Mbit/s
95th percentile per-packet one-way delay: 50.951 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.34 Mbit/s
95th percentile per-packet one-way delay: 50.951 ms
Loss rate: 0.00%
```

## Run 6: Report of QUIC Cubic — Data Link

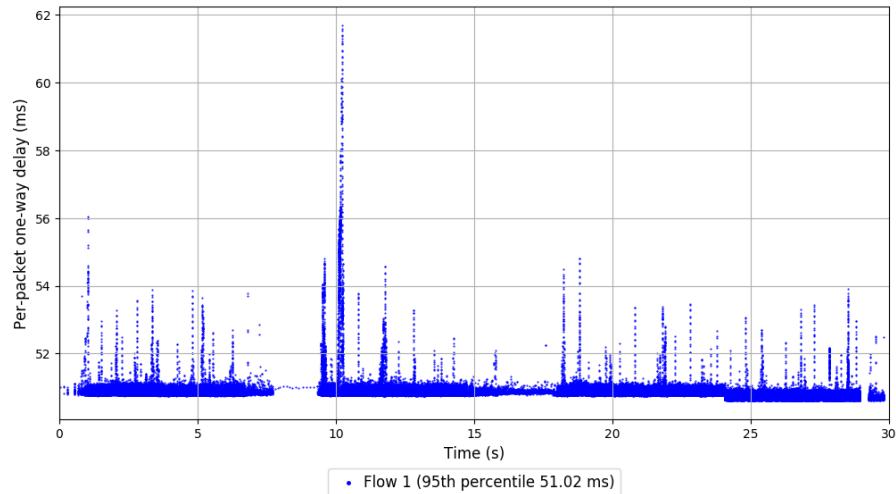
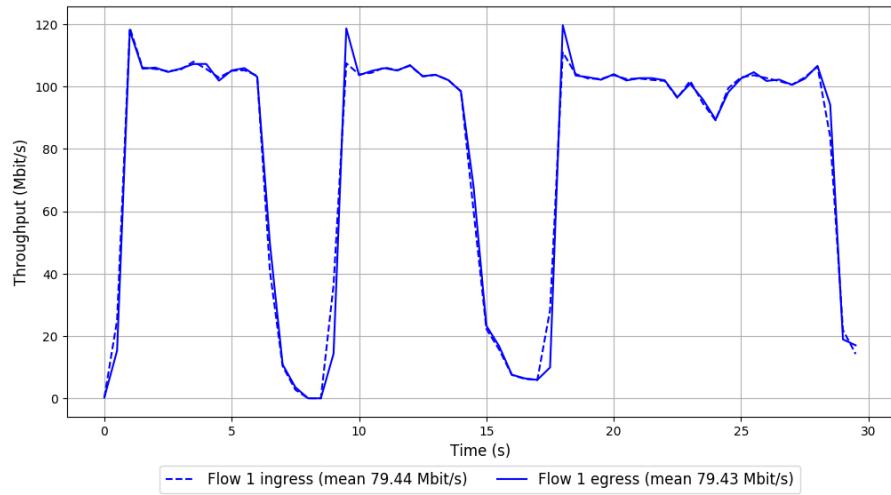


```
Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 18:29:10
End at: 2018-01-16 18:29:40

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 51.024 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 79.43 Mbit/s
95th percentile per-packet one-way delay: 51.024 ms
Loss rate: 0.01%
```

## Run 7: Report of QUIC Cubic — Data Link



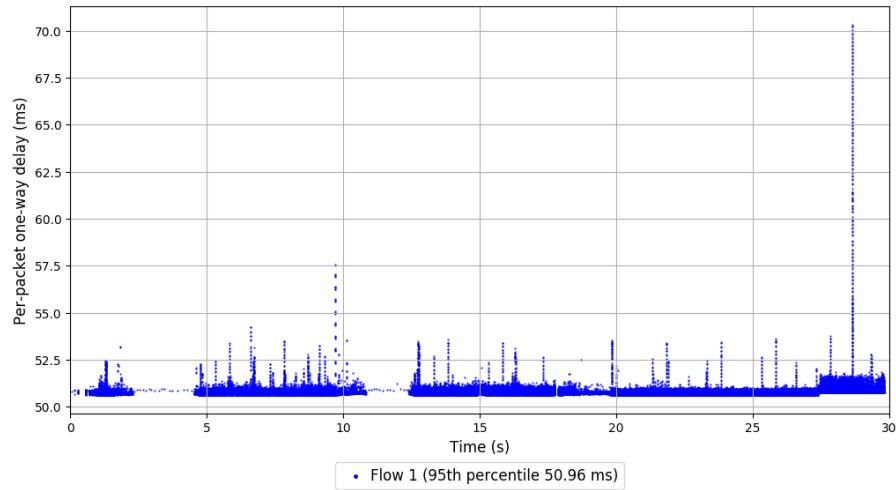
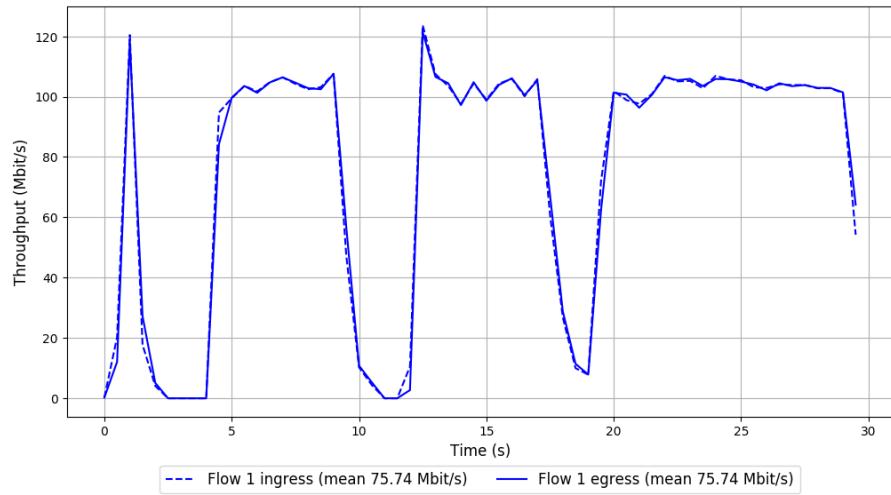
Run 8: Statistics of QUIC Cubic

Start at: 2018-01-16 18:42:57

End at: 2018-01-16 18:43:27

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.74 Mbit/s
95th percentile per-packet one-way delay: 50.962 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 75.74 Mbit/s
95th percentile per-packet one-way delay: 50.962 ms
Loss rate: 0.01%
```

## Run 8: Report of QUIC Cubic — Data Link



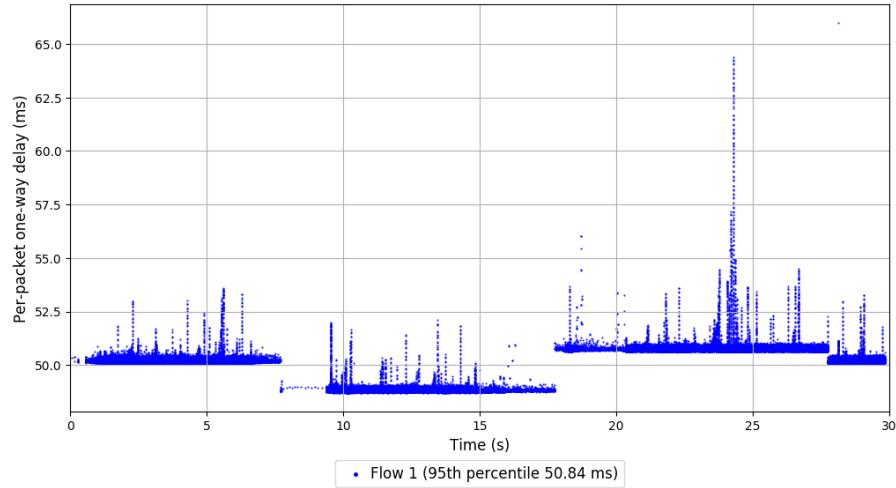
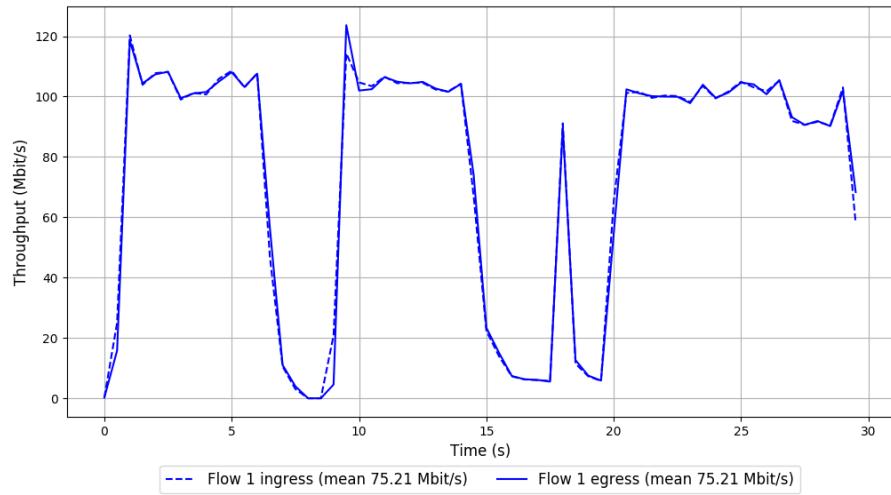
Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 18:57:16

End at: 2018-01-16 18:57:47

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.21 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.21 Mbit/s
95th percentile per-packet one-way delay: 50.837 ms
Loss rate: 0.00%
```

### Run 9: Report of QUIC Cubic — Data Link



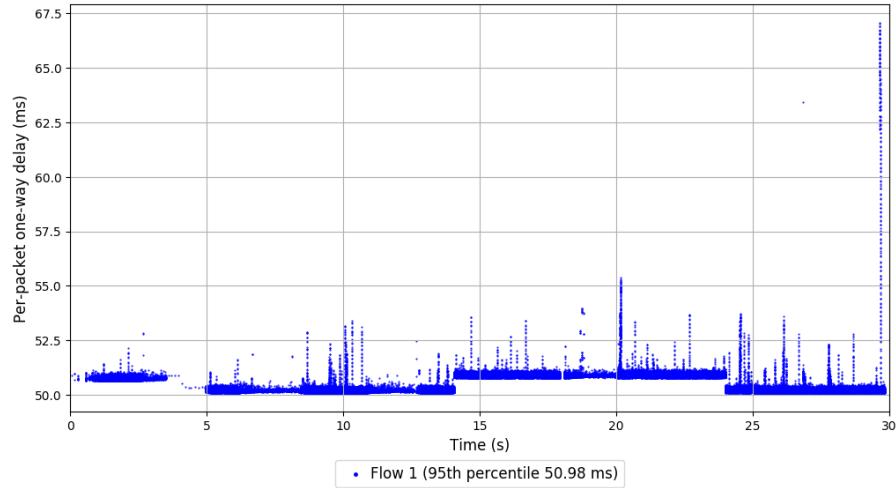
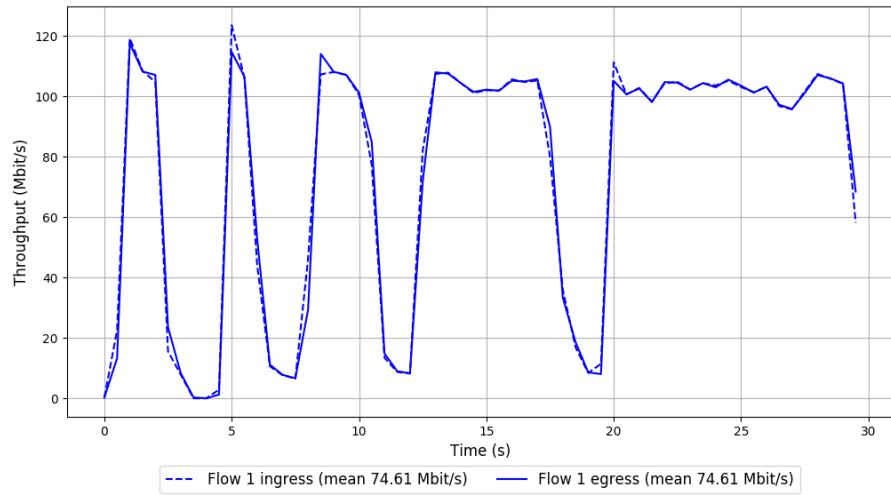
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 19:11:30

End at: 2018-01-16 19:12:00

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 50.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 50.981 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

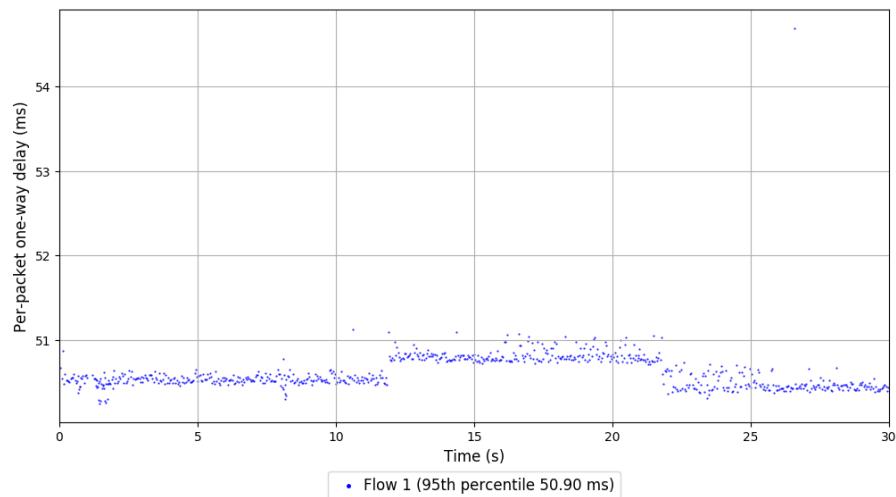
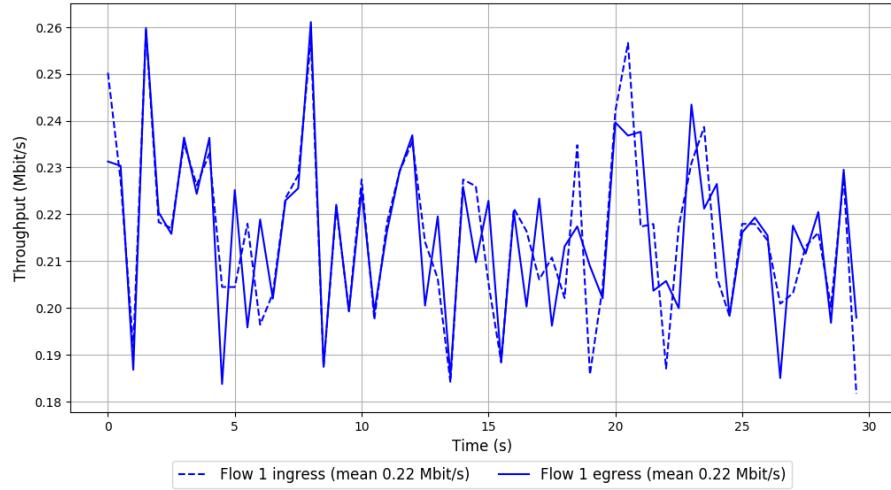


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 17:12:03
End at: 2018-01-16 17:12:33

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.00%
```

## Run 1: Report of SCReAM — Data Link



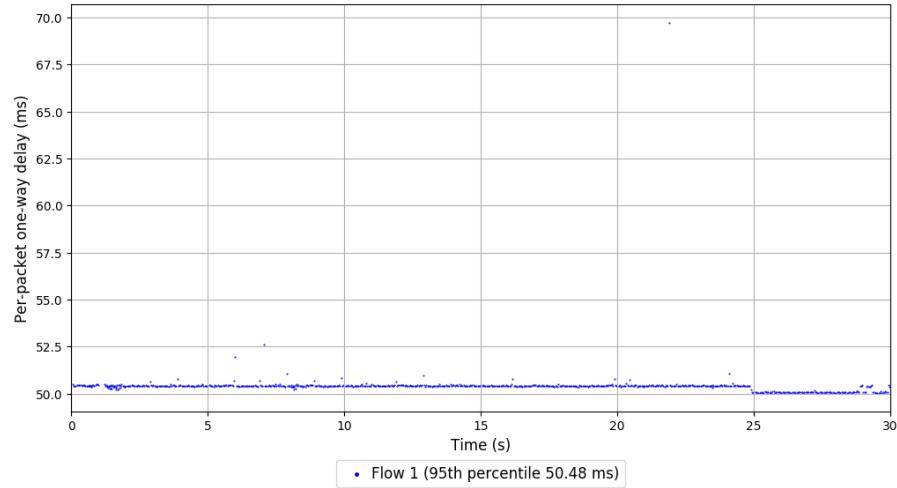
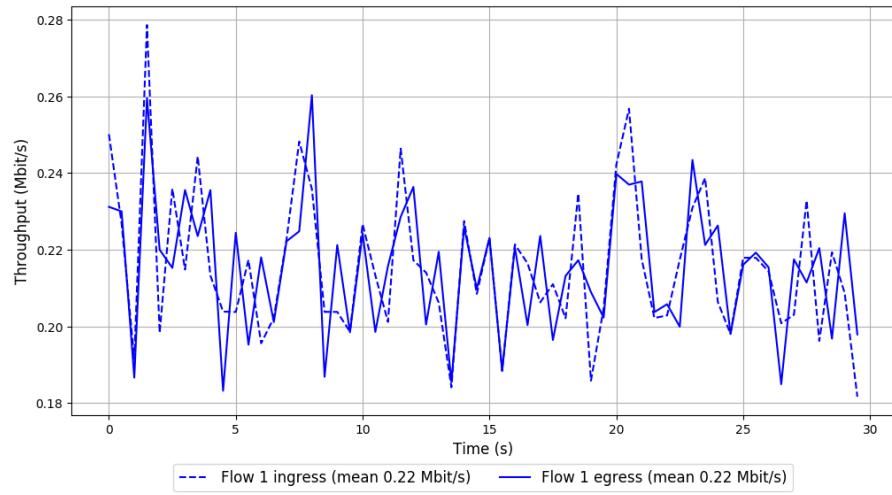
Run 2: Statistics of SCReAM

Start at: 2018-01-16 17:26:20

End at: 2018-01-16 17:26:50

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.00%
```

## Run 2: Report of SCReAM — Data Link



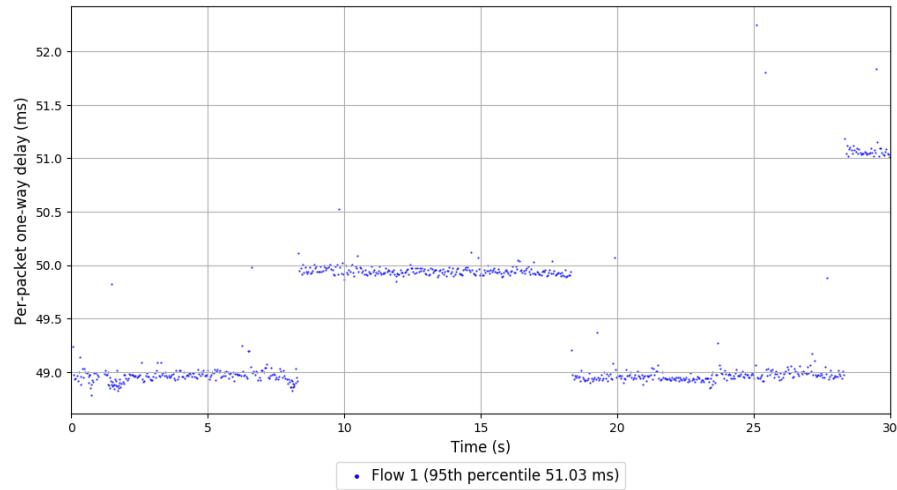
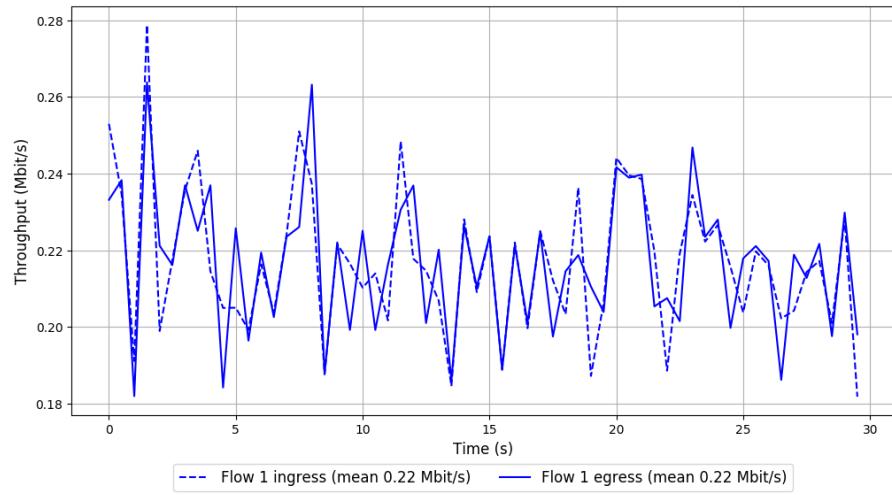
Run 3: Statistics of SCReAM

Start at: 2018-01-16 17:40:26

End at: 2018-01-16 17:40:56

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.031 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.031 ms
Loss rate: 0.00%
```

### Run 3: Report of SCReAM — Data Link



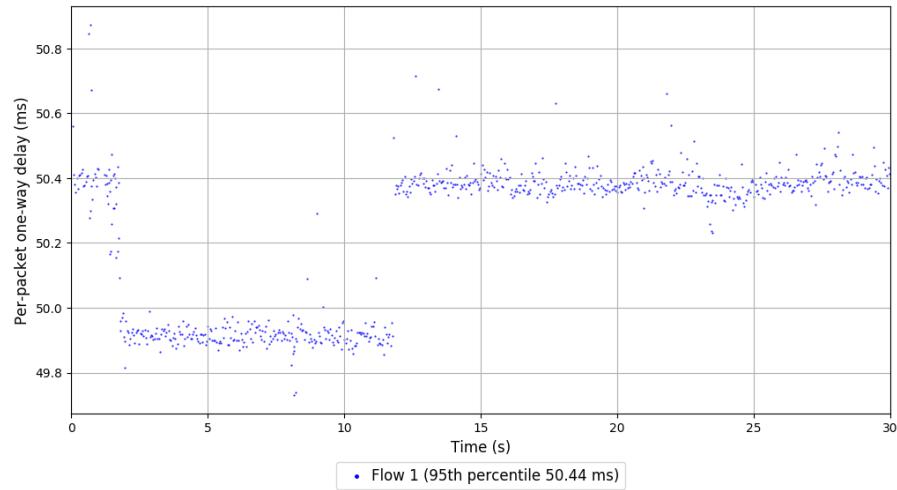
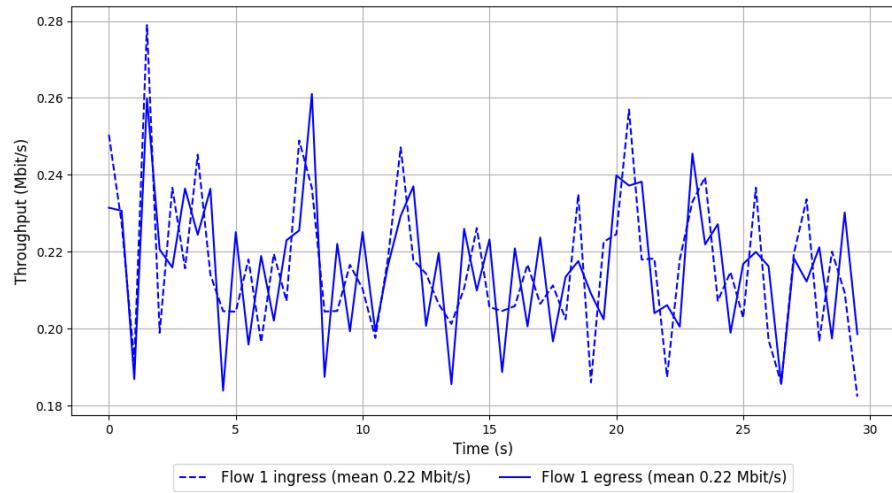
Run 4: Statistics of SCReAM

Start at: 2018-01-16 17:54:33

End at: 2018-01-16 17:55:03

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.442 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.442 ms
Loss rate: 0.00%
```

## Run 4: Report of SCReAM — Data Link

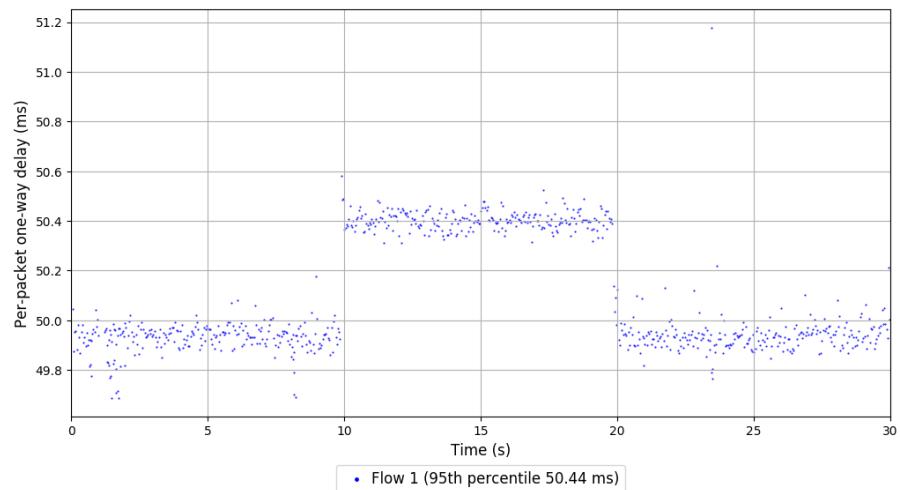
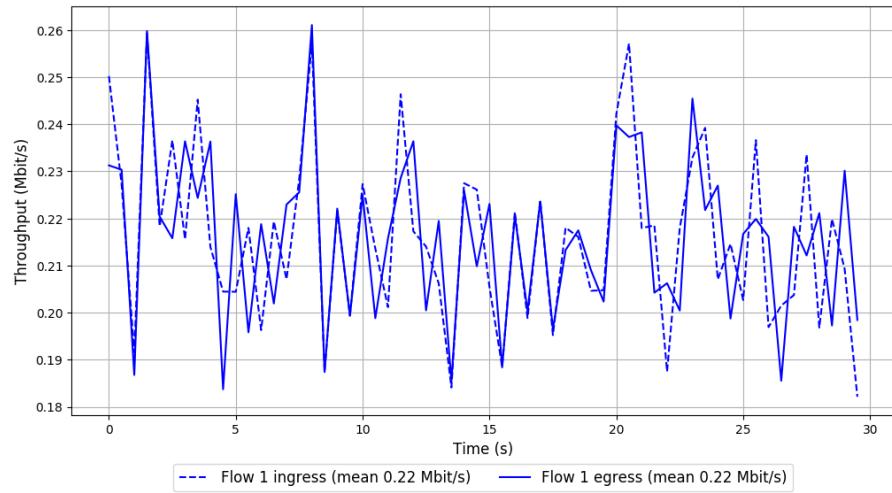


```
Run 5: Statistics of SCReAM

Start at: 2018-01-16 18:08:14
End at: 2018-01-16 18:08:45

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.441 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



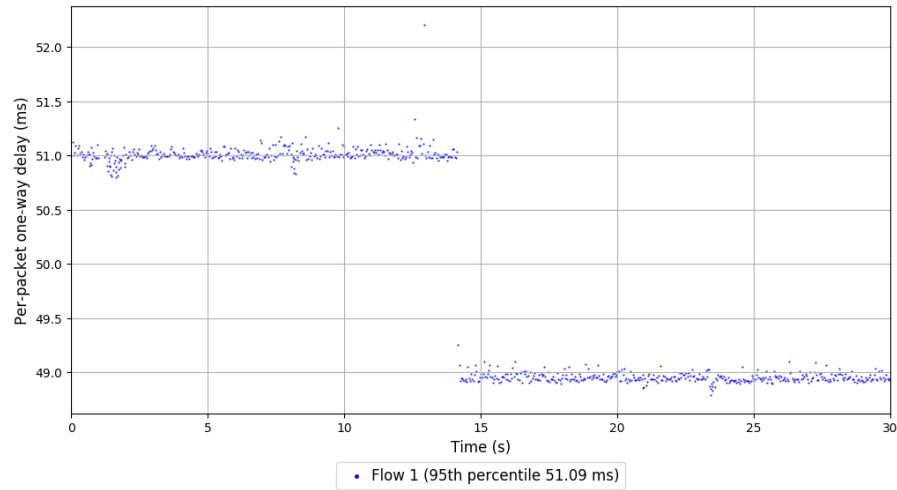
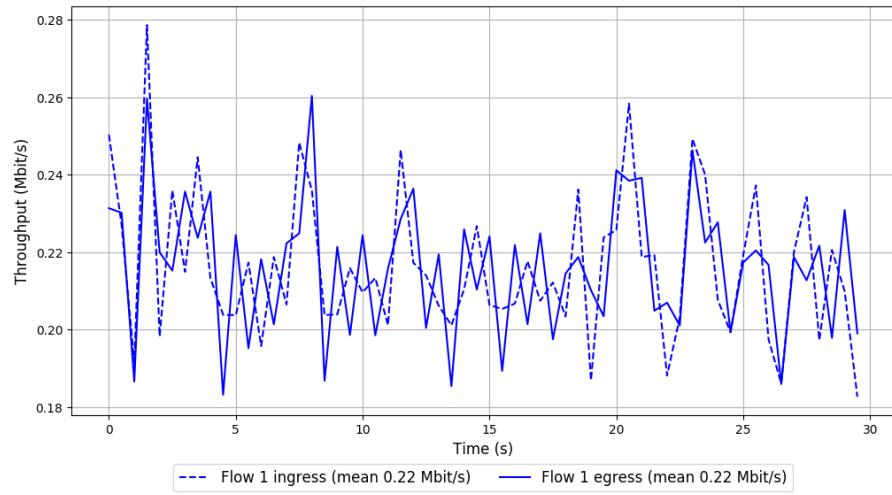
Run 6: Statistics of SCReAM

Start at: 2018-01-16 18:22:20

End at: 2018-01-16 18:22:50

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link



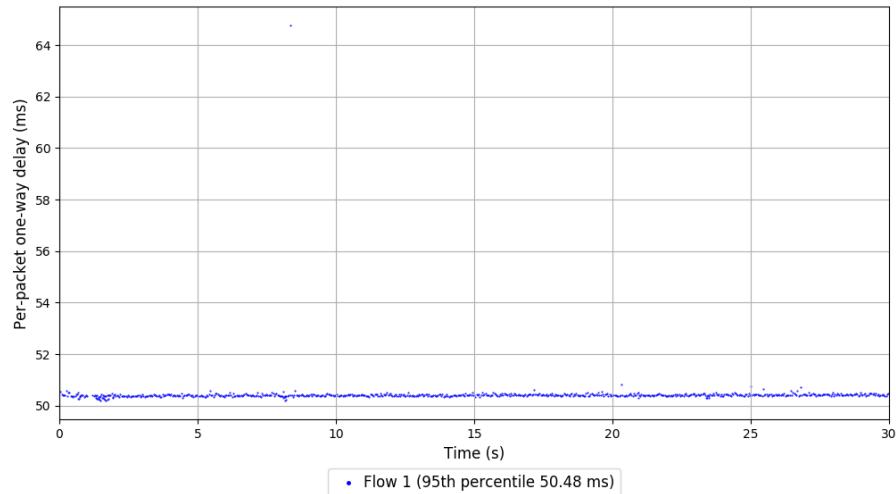
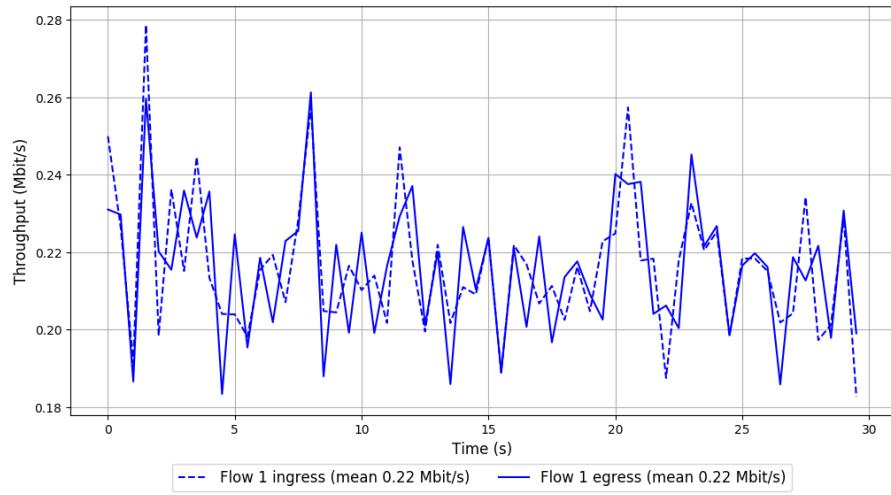
Run 7: Statistics of SCReAM

Start at: 2018-01-16 18:36:19

End at: 2018-01-16 18:36:49

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.483 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link

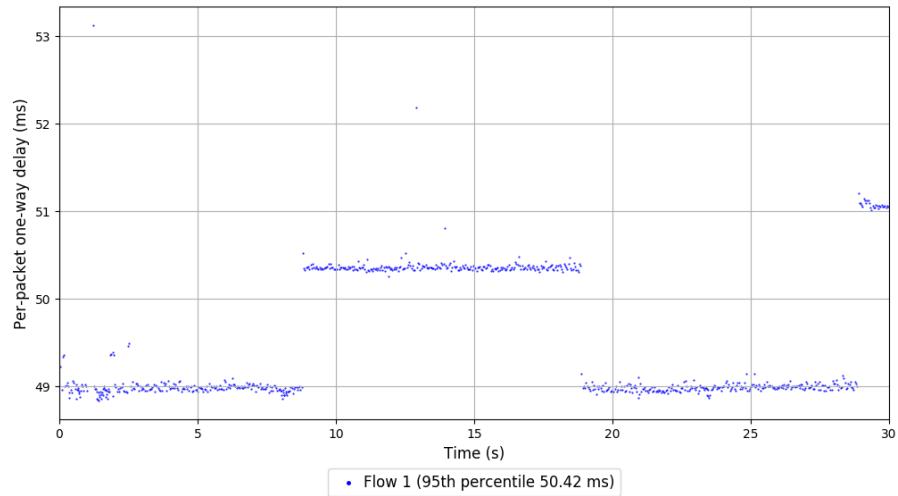
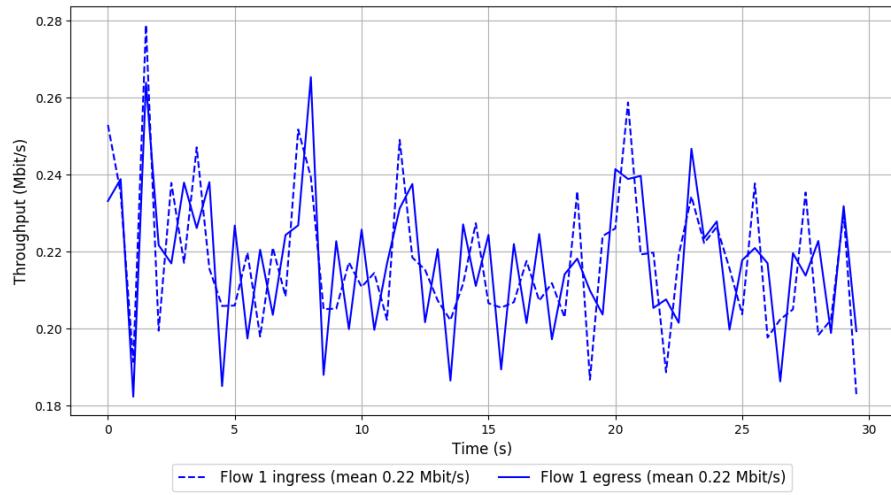


```
Run 8: Statistics of SCReAM

Start at: 2018-01-16 18:50:06
End at: 2018-01-16 18:50:36

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.423 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.423 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



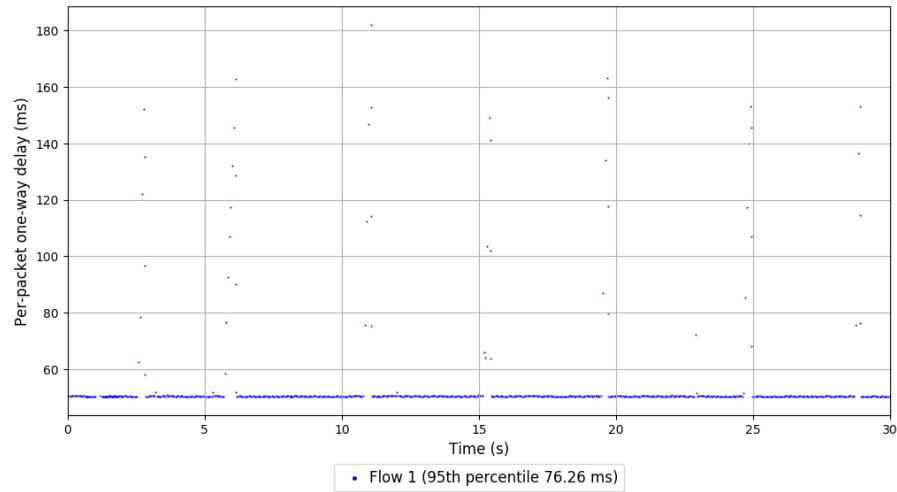
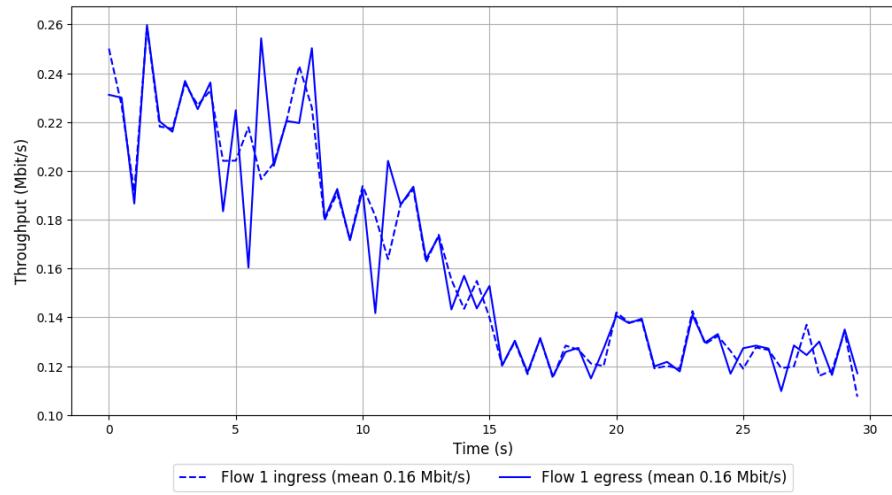
Run 9: Statistics of SCReAM

Start at: 2018-01-16 19:04:19

End at: 2018-01-16 19:04:49

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 76.263 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 76.263 ms
Loss rate: 0.00%
```

## Run 9: Report of SCReAM — Data Link



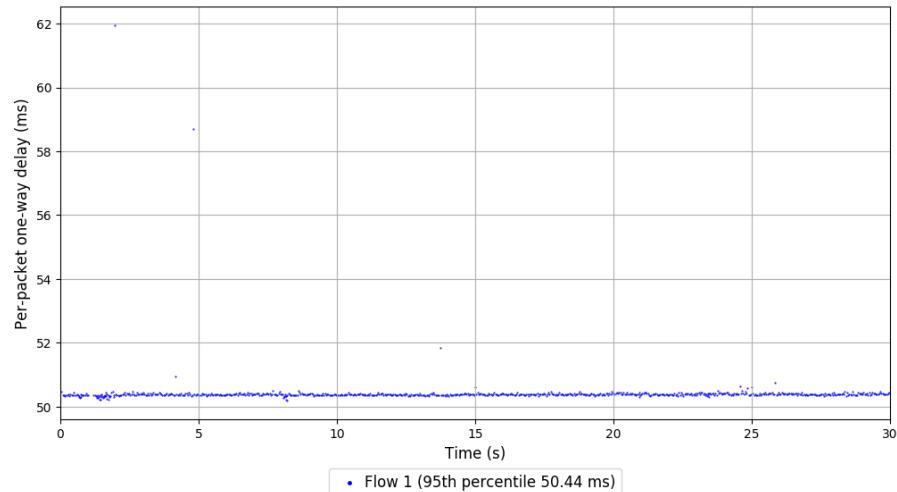
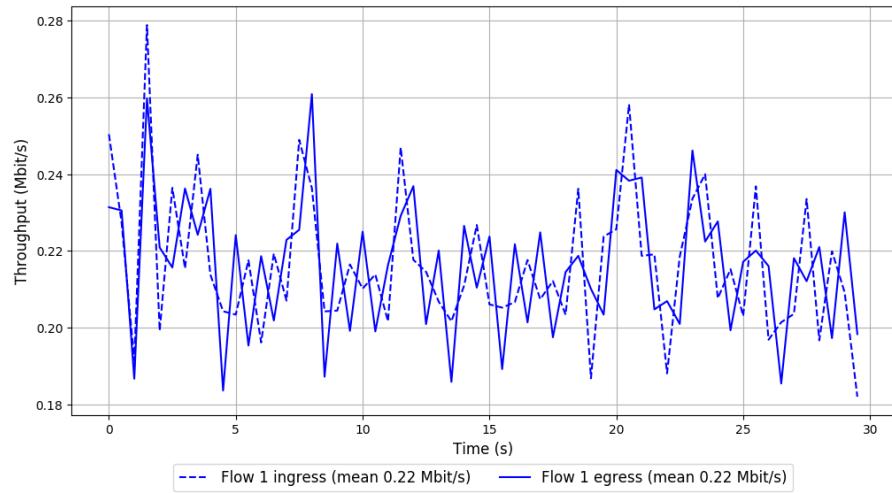
Run 10: Statistics of SCReAM

Start at: 2018-01-16 19:18:39

End at: 2018-01-16 19:19:09

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.441 ms
Loss rate: 0.00%
```

## Run 10: Report of SCReAM — Data Link

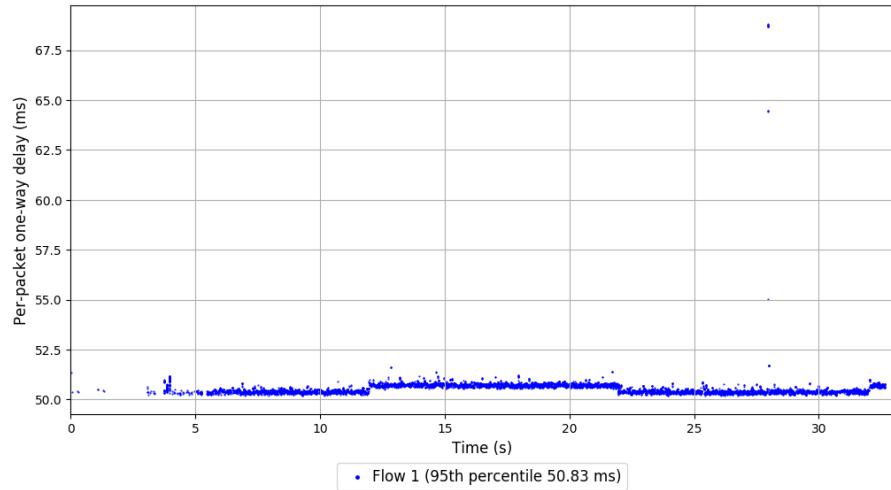
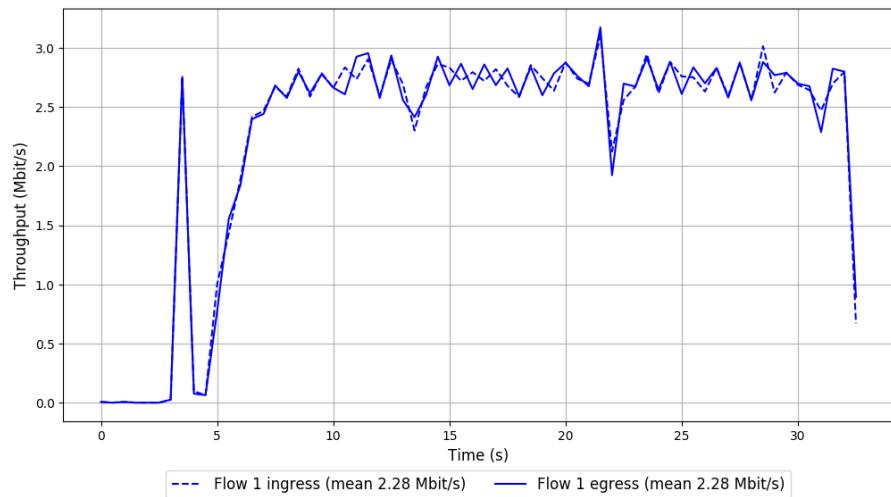


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 17:05:55
End at: 2018-01-16 17:06:25

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.00%
```

### Run 1: Report of WebRTC media — Data Link



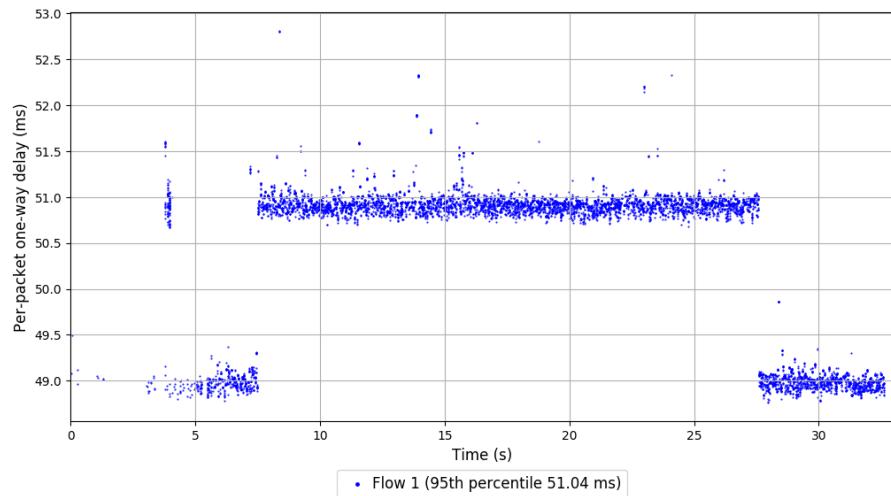
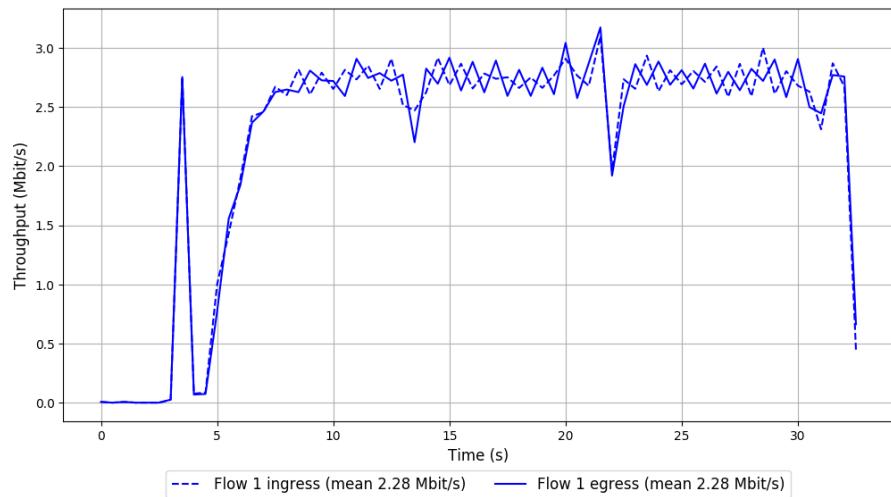
Run 2: Statistics of WebRTC media

Start at: 2018-01-16 17:20:19

End at: 2018-01-16 17:20:49

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.038 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.038 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



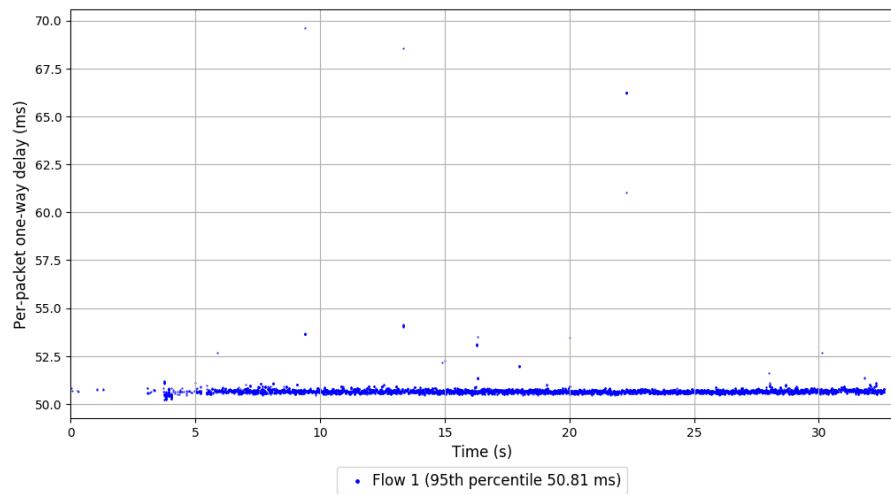
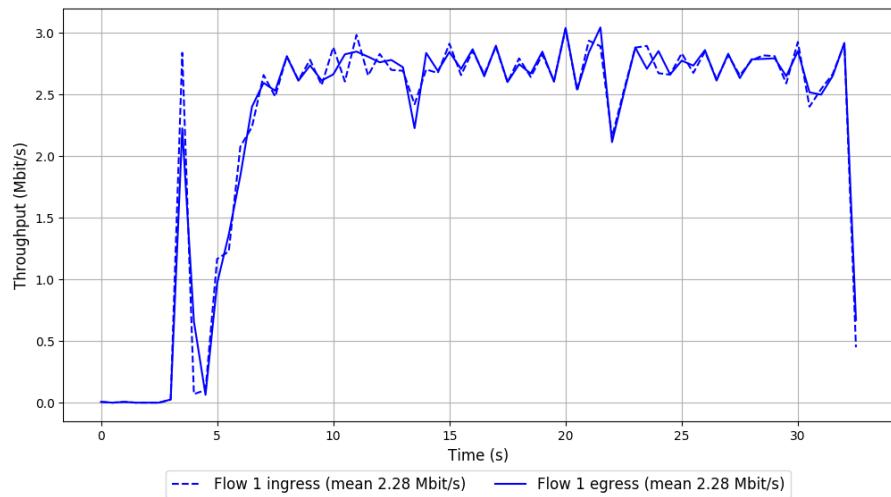
Run 3: Statistics of WebRTC media

Start at: 2018-01-16 17:34:35

End at: 2018-01-16 17:35:05

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.807 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.807 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link



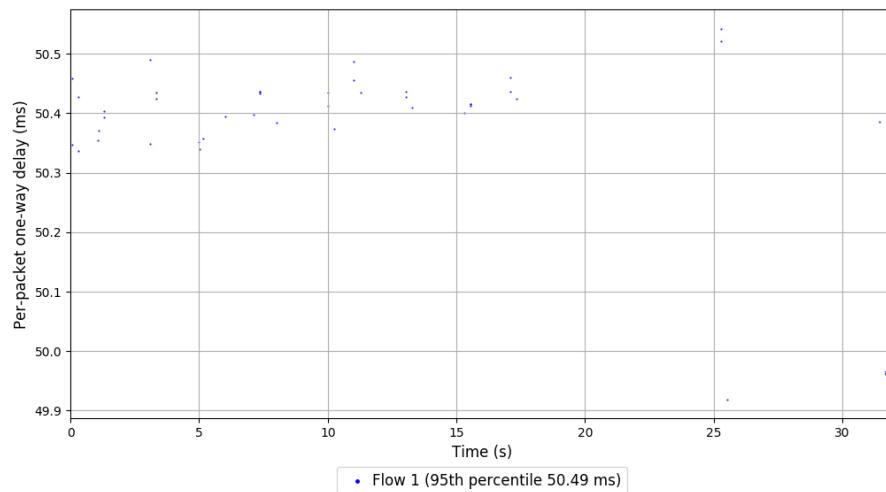
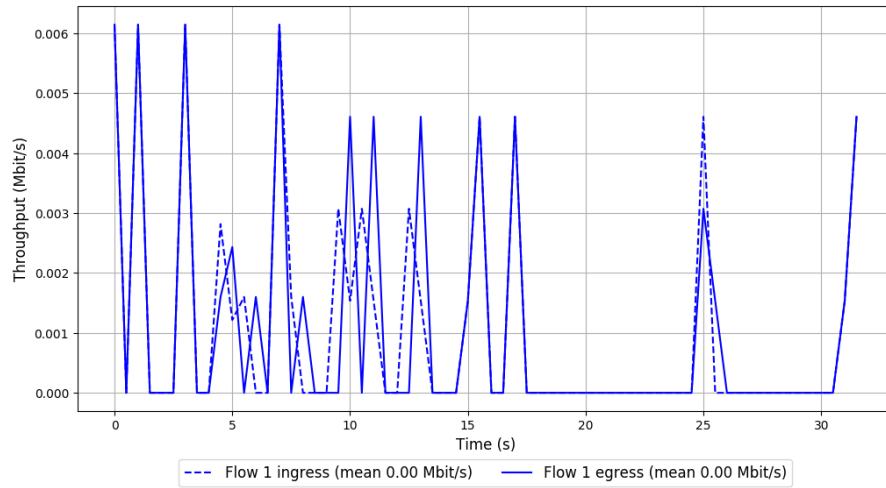
Run 4: Statistics of WebRTC media

Start at: 2018-01-16 17:48:33

End at: 2018-01-16 17:49:03

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 50.490 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 50.490 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



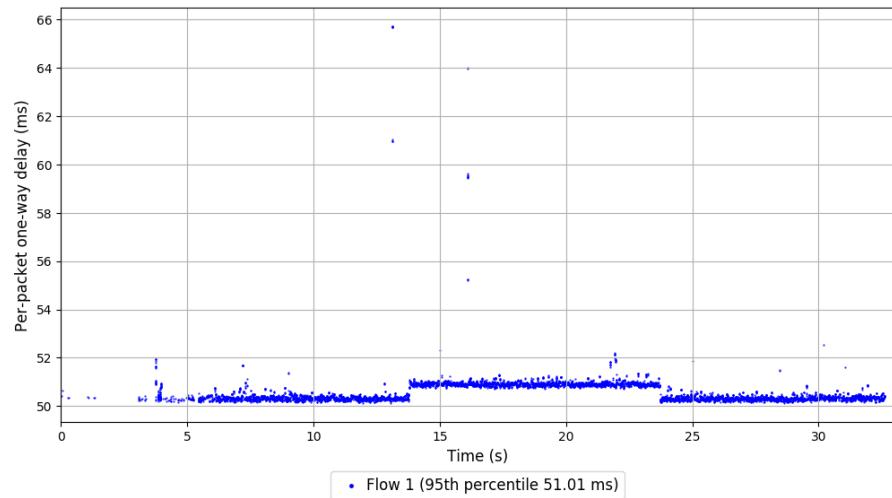
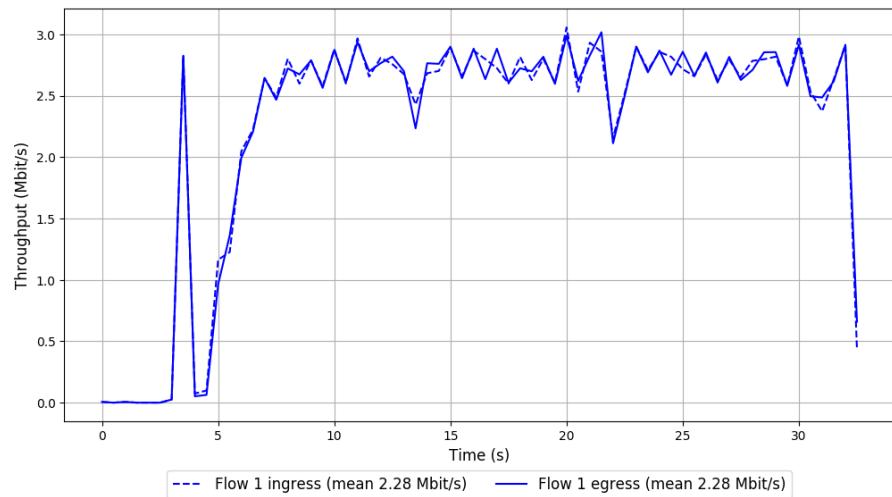
Run 5: Statistics of WebRTC media

Start at: 2018-01-16 18:02:33

End at: 2018-01-16 18:03:03

```
# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.011 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.011 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link

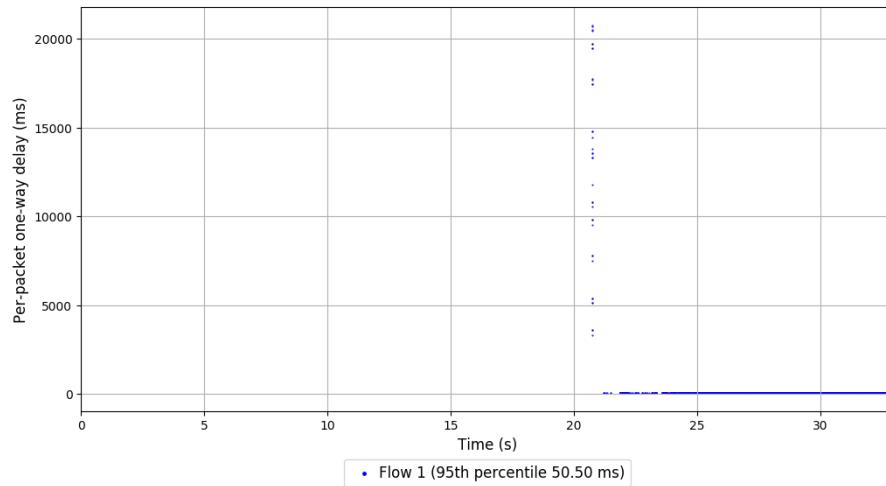
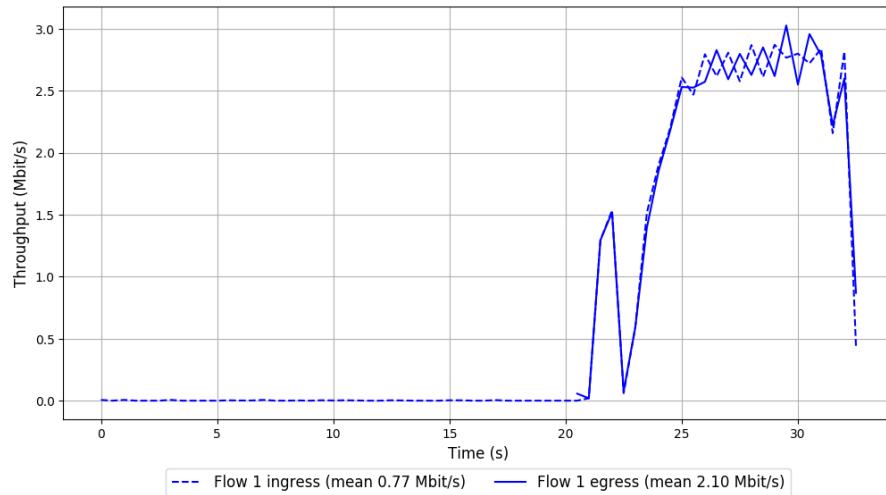


Run 6: Statistics of WebRTC media

Start at: 2018-01-16 18:16:31

End at: 2018-01-16 18:17:01

Run 6: Report of WebRTC media — Data Link

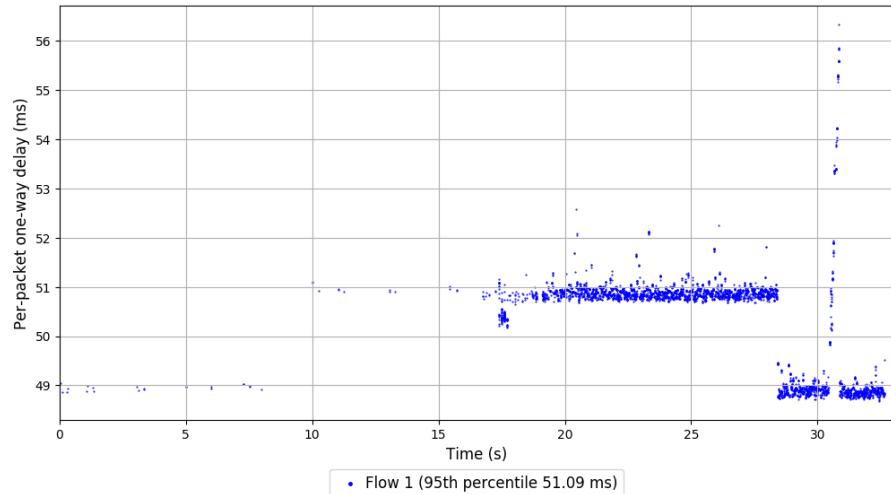
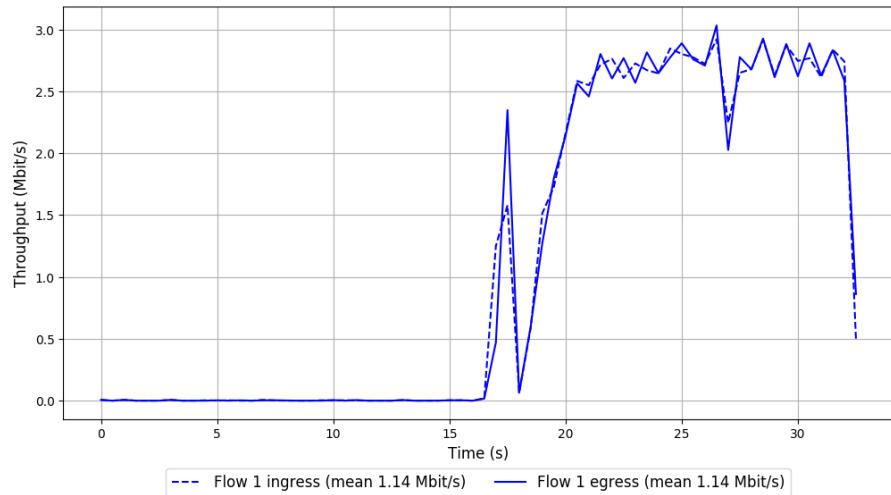


```
Run 7: Statistics of WebRTC media

Start at: 2018-01-16 18:30:29
End at: 2018-01-16 18:30:59

# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 51.091 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.14 Mbit/s
95th percentile per-packet one-way delay: 51.091 ms
Loss rate: 0.00%
```

### Run 7: Report of WebRTC media — Data Link

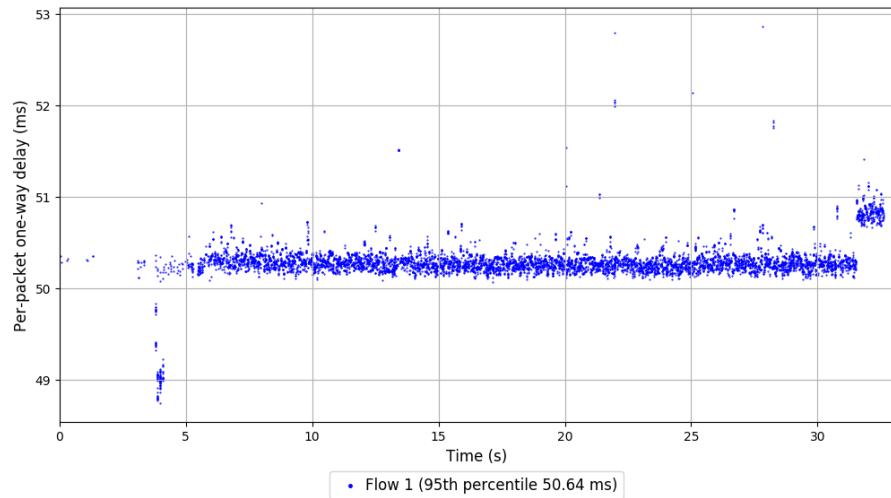
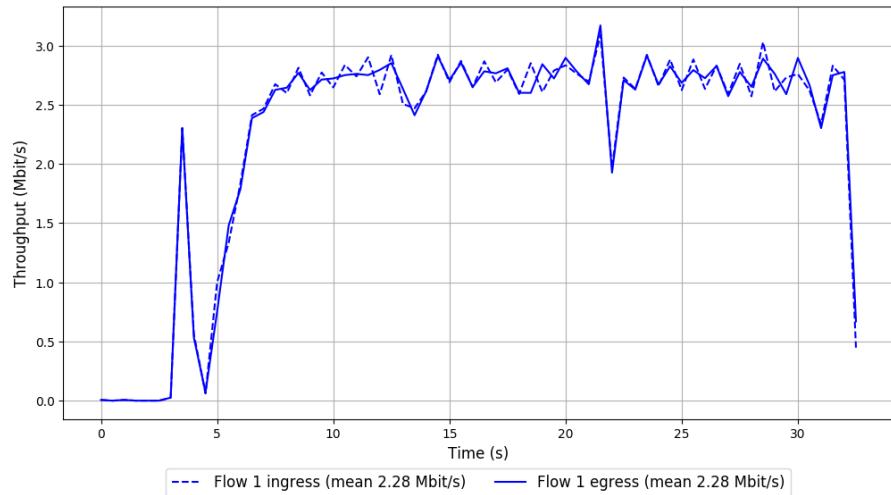


```
Run 8: Statistics of WebRTC media

Start at: 2018-01-16 18:44:16
End at: 2018-01-16 18:44:46

# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.644 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.644 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

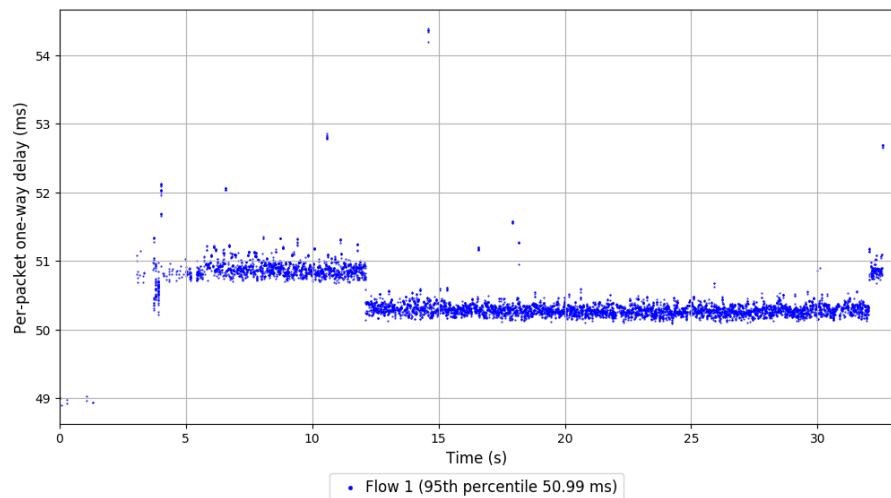
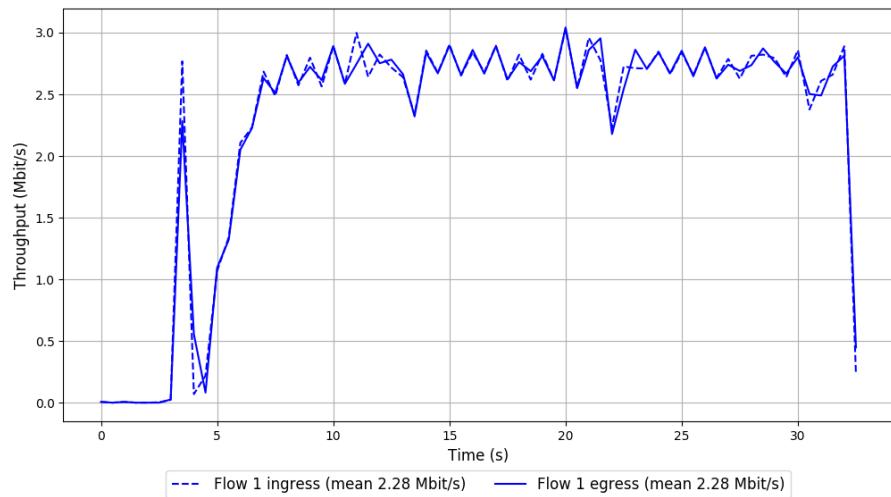


```
Run 9: Statistics of WebRTC media

Start at: 2018-01-16 18:58:35
End at: 2018-01-16 18:59:05

# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.989 ms
Loss rate: 0.05%
```

Run 9: Report of WebRTC media — Data Link



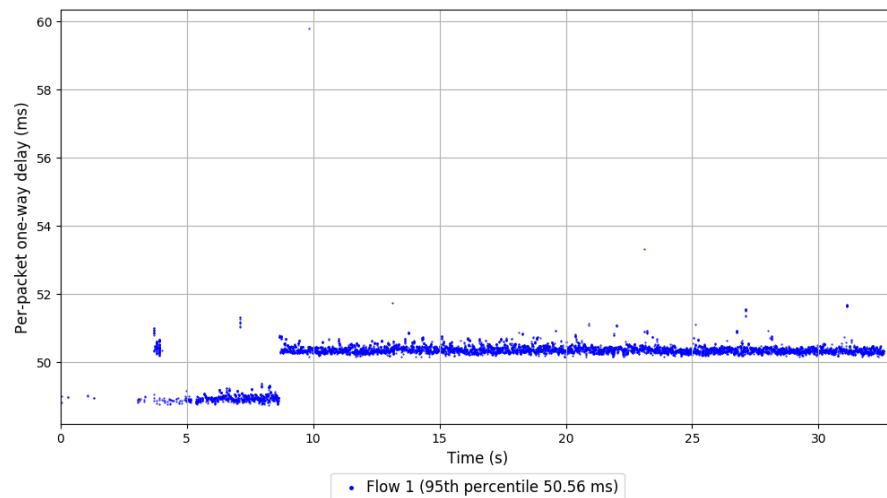
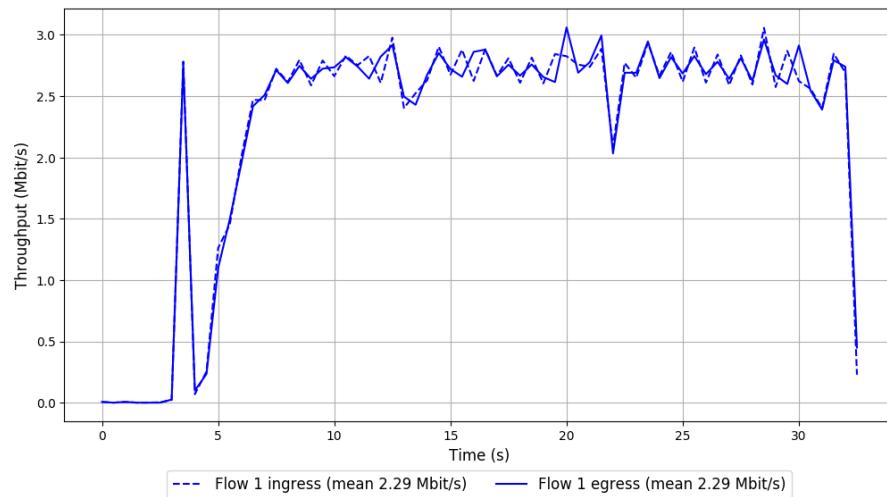
Run 10: Statistics of WebRTC media

Start at: 2018-01-16 19:12:48

End at: 2018-01-16 19:13:18

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 50.556 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 50.556 ms
Loss rate: 0.00%
```

### Run 10: Report of WebRTC media — Data Link



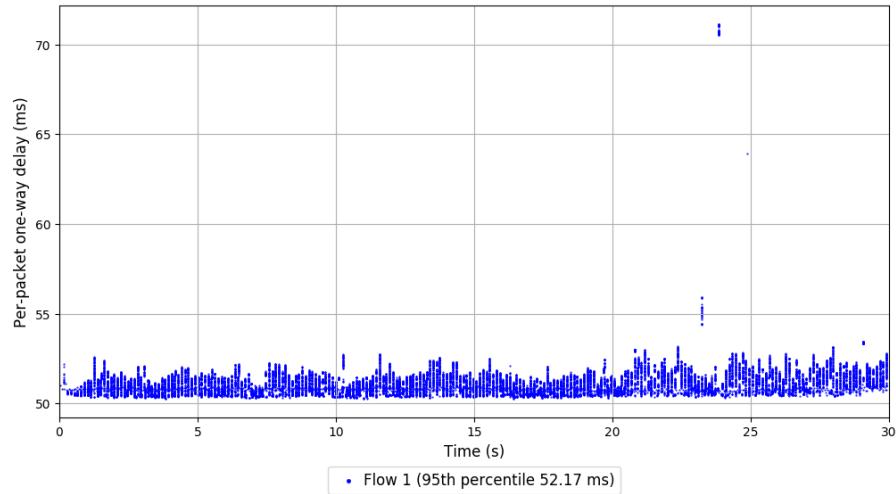
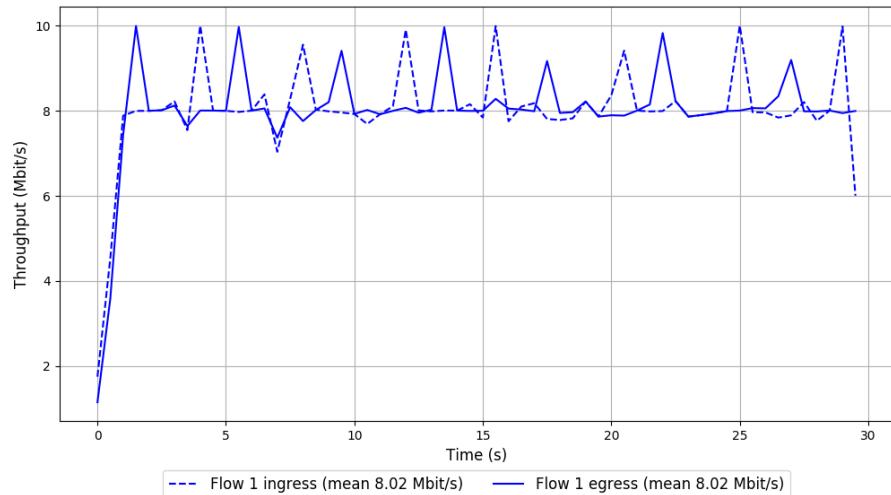
Run 1: Statistics of Sprout

Start at: 2018-01-16 17:11:25

End at: 2018-01-16 17:11:55

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 52.169 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 52.169 ms
Loss rate: 0.01%
```

Run 1: Report of Sprout — Data Link



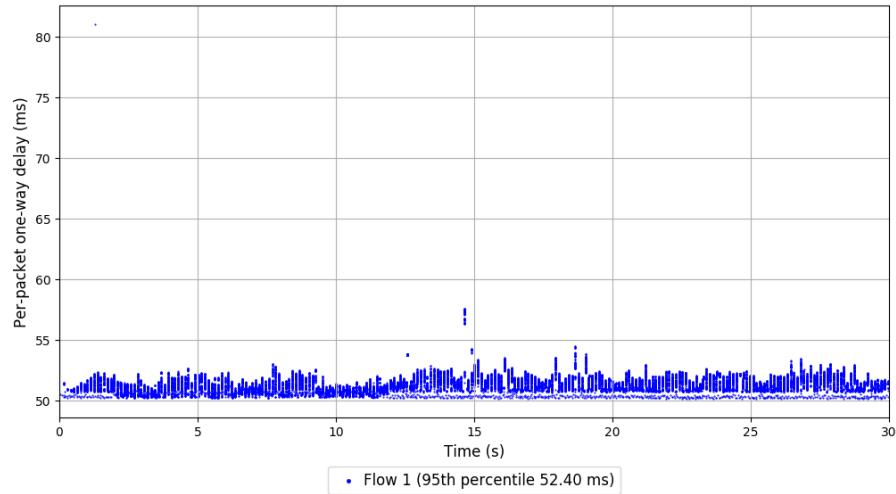
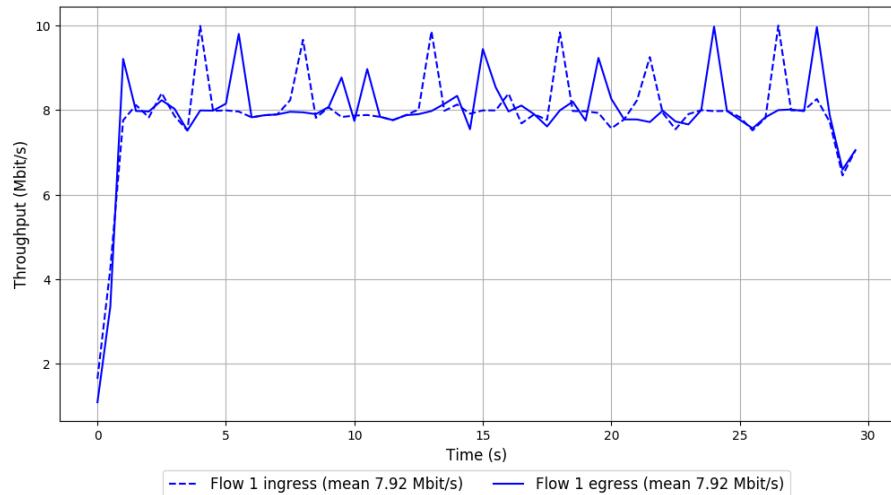
Run 2: Statistics of Sprout

Start at: 2018-01-16 17:25:42

End at: 2018-01-16 17:26:12

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 52.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 52.402 ms
Loss rate: 0.00%
```

## Run 2: Report of Sprout — Data Link



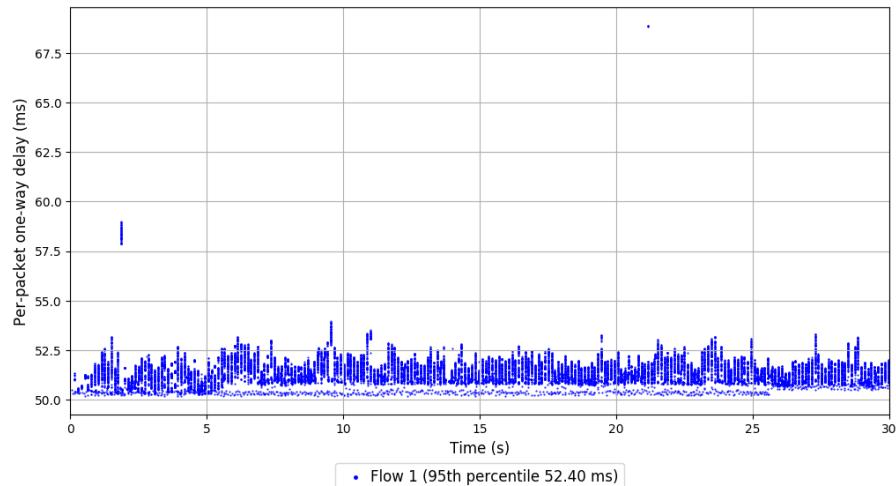
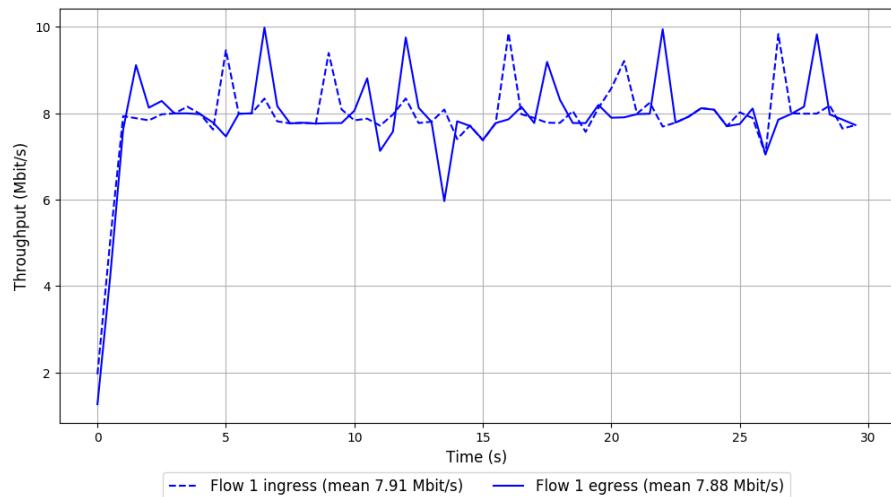
Run 3: Statistics of Sprout

Start at: 2018-01-16 17:39:49

End at: 2018-01-16 17:40:19

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 52.401 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 7.88 Mbit/s
95th percentile per-packet one-way delay: 52.401 ms
Loss rate: 0.37%
```

### Run 3: Report of Sprout — Data Link



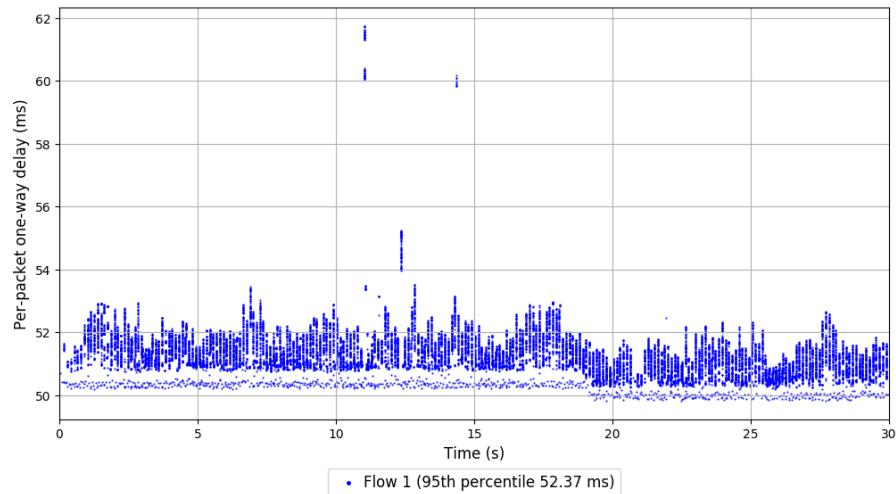
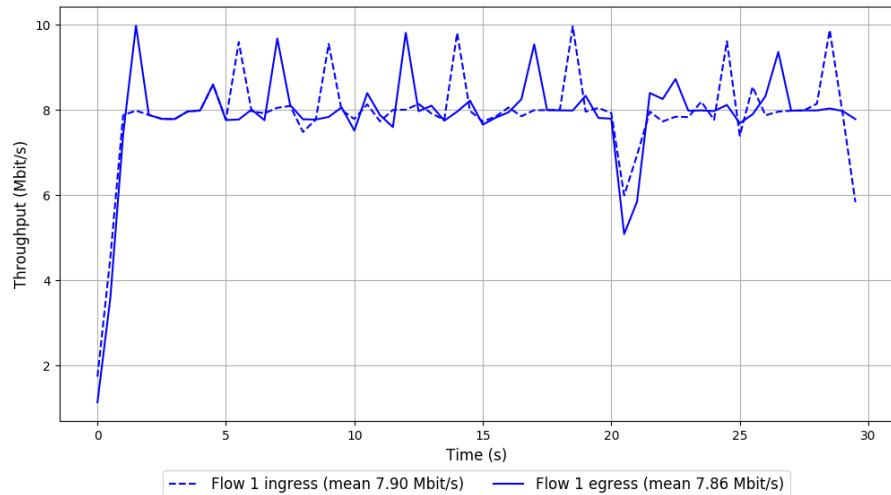
Run 4: Statistics of Sprout

Start at: 2018-01-16 17:53:55

End at: 2018-01-16 17:54:25

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 52.372 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 52.372 ms
Loss rate: 0.42%
```

## Run 4: Report of Sprout — Data Link



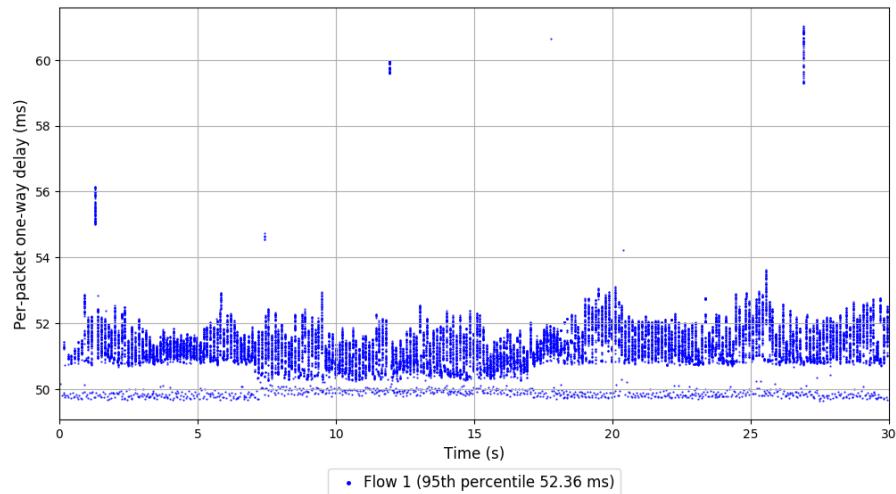
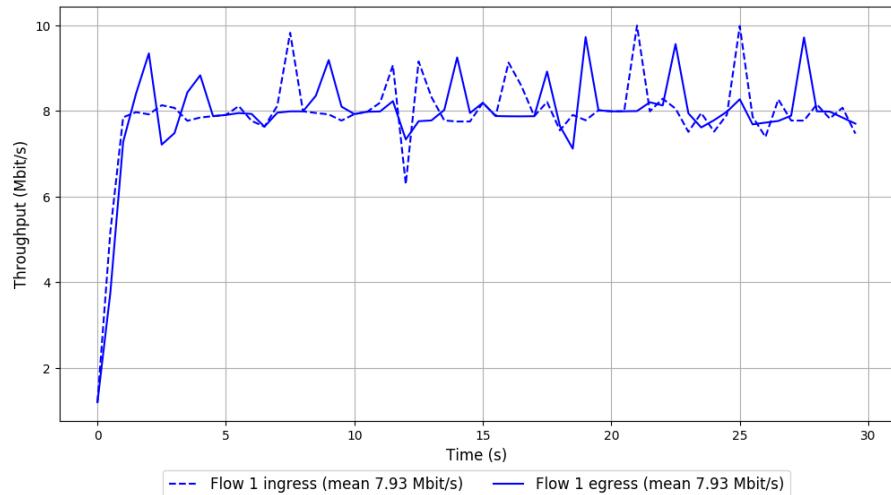
Run 5: Statistics of Sprout

Start at: 2018-01-16 18:07:37

End at: 2018-01-16 18:08:07

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 52.358 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 52.358 ms
Loss rate: 0.00%
```

### Run 5: Report of Sprout — Data Link



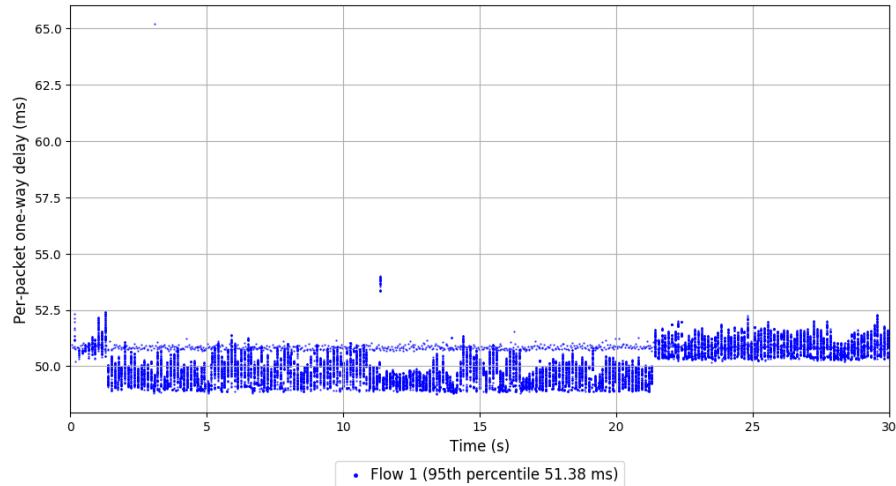
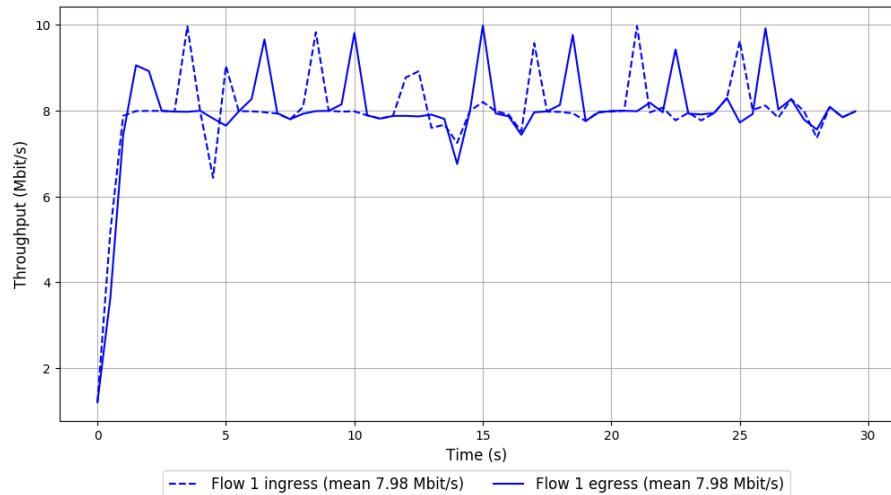
Run 6: Statistics of Sprout

Start at: 2018-01-16 18:21:43

End at: 2018-01-16 18:22:13

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 51.380 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 51.380 ms
Loss rate: 0.02%
```

## Run 6: Report of Sprout — Data Link



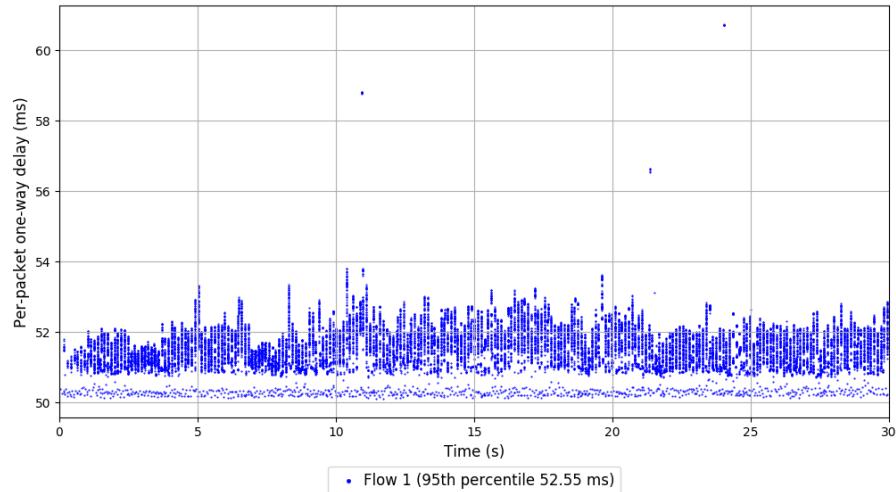
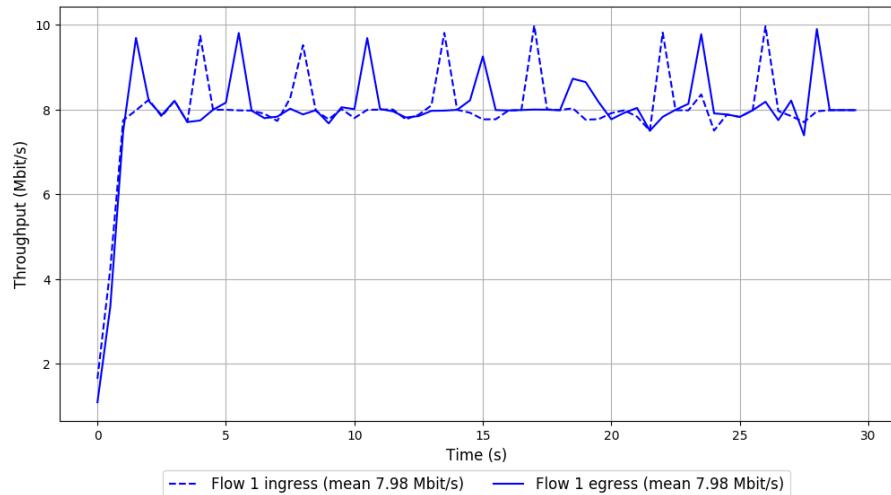
Run 7: Statistics of Sprout

Start at: 2018-01-16 18:35:42

End at: 2018-01-16 18:36:12

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 52.553 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 52.553 ms
Loss rate: 0.00%
```

### Run 7: Report of Sprout — Data Link



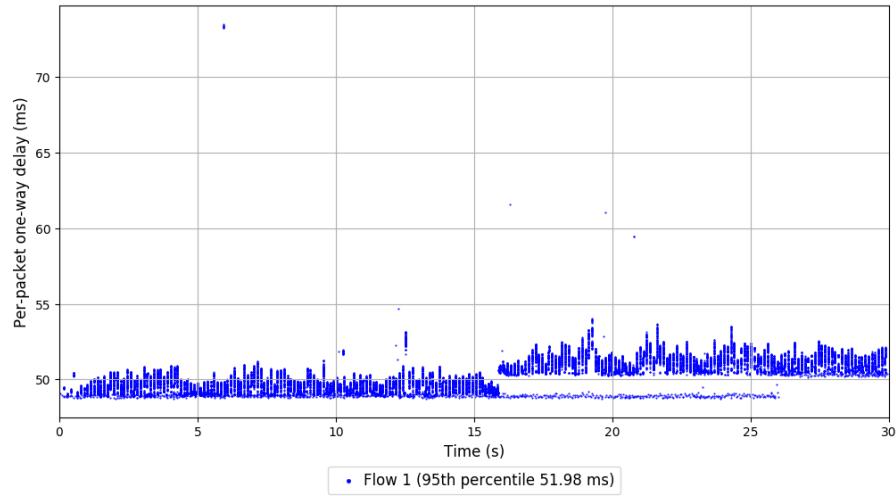
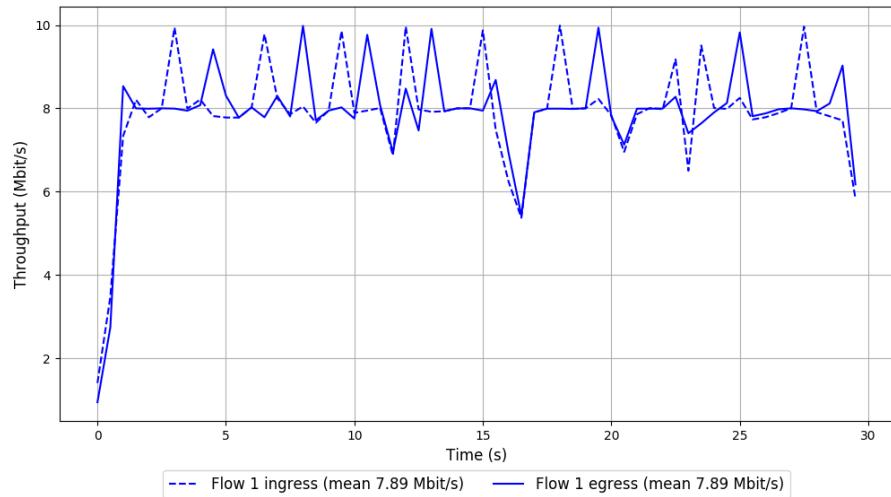
Run 8: Statistics of Sprout

Start at: 2018-01-16 18:49:28

End at: 2018-01-16 18:49:58

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 51.979 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.89 Mbit/s
95th percentile per-packet one-way delay: 51.979 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



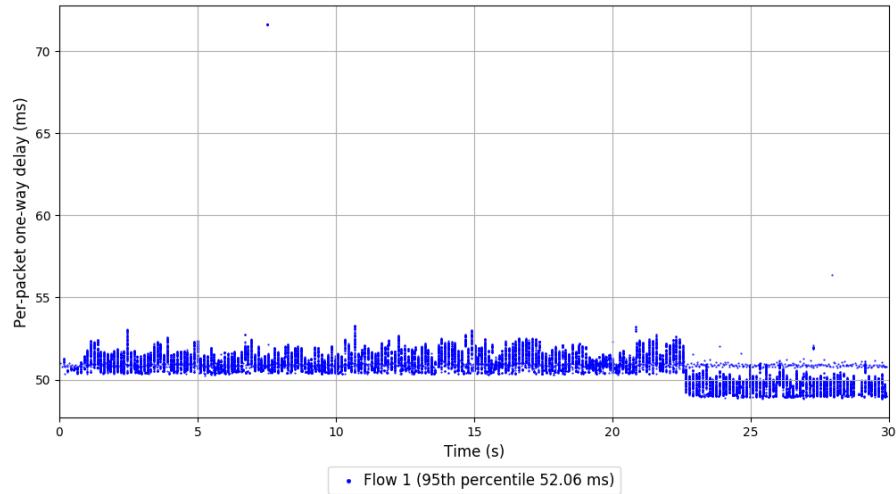
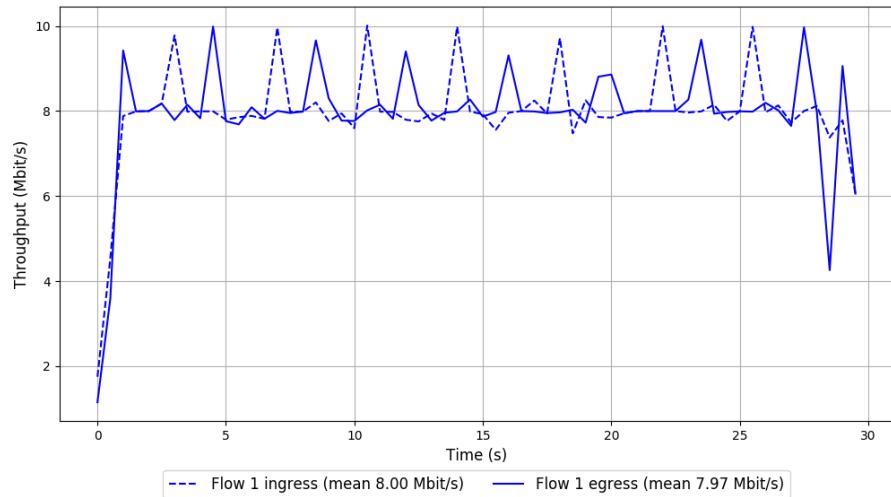
Run 9: Statistics of Sprout

Start at: 2018-01-16 19:03:42

End at: 2018-01-16 19:04:12

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 52.059 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 7.97 Mbit/s
95th percentile per-packet one-way delay: 52.059 ms
Loss rate: 0.42%
```

Run 9: Report of Sprout — Data Link



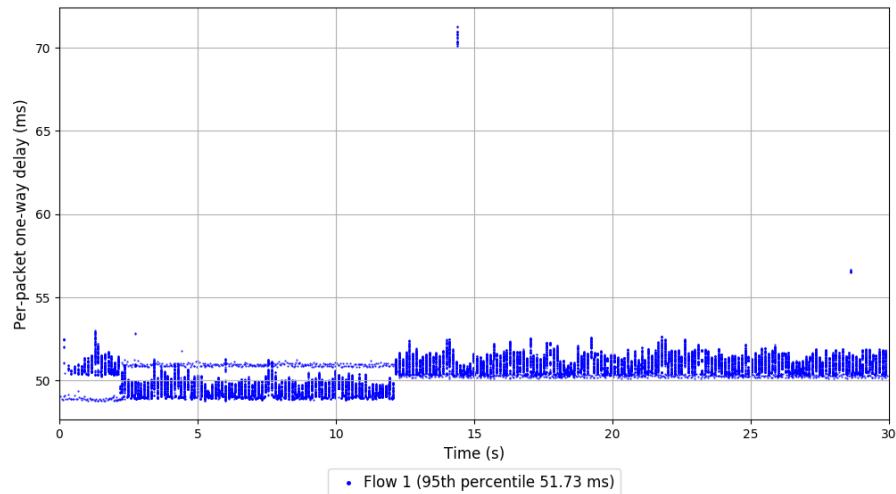
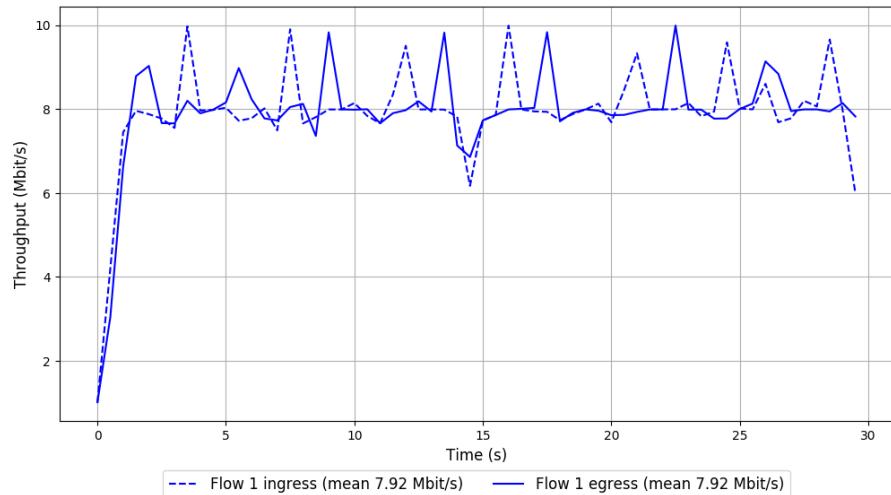
Run 10: Statistics of Sprout

Start at: 2018-01-16 19:18:02

End at: 2018-01-16 19:18:32

```
# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 51.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.92 Mbit/s
95th percentile per-packet one-way delay: 51.725 ms
Loss rate: 0.00%
```

### Run 10: Report of Sprout — Data Link



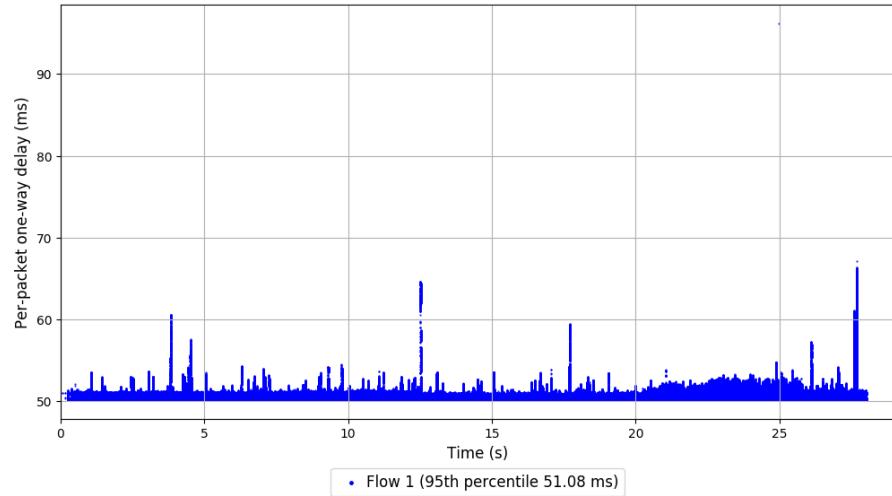
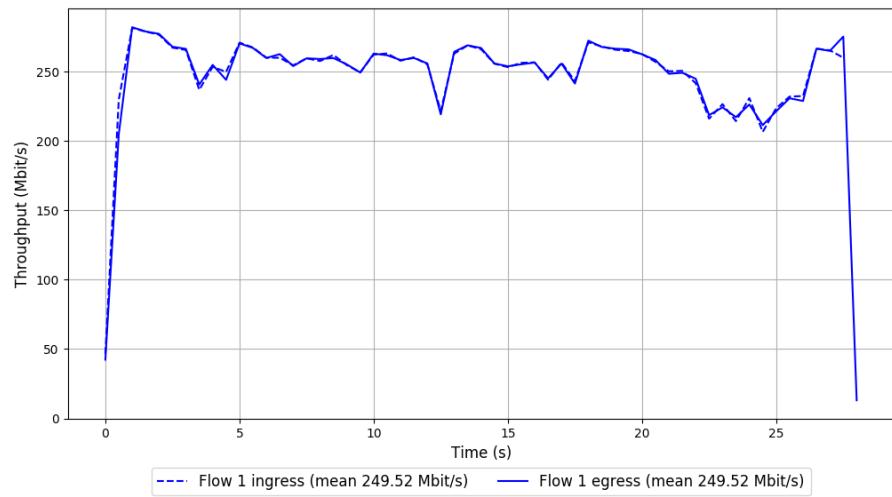
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 17:08:50

End at: 2018-01-16 17:09:20

```
# Below is generated by plot.py at 2018-01-16 21:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.52 Mbit/s
95th percentile per-packet one-way delay: 51.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 249.52 Mbit/s
95th percentile per-packet one-way delay: 51.083 ms
Loss rate: 0.00%
```

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



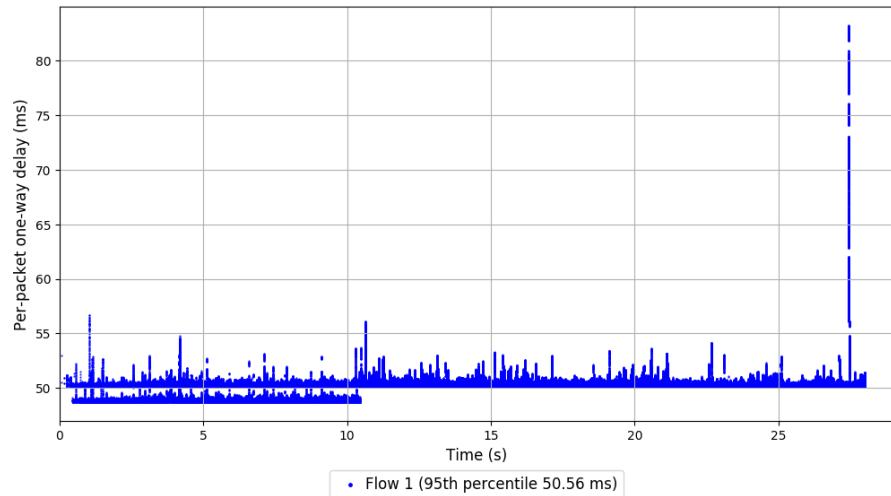
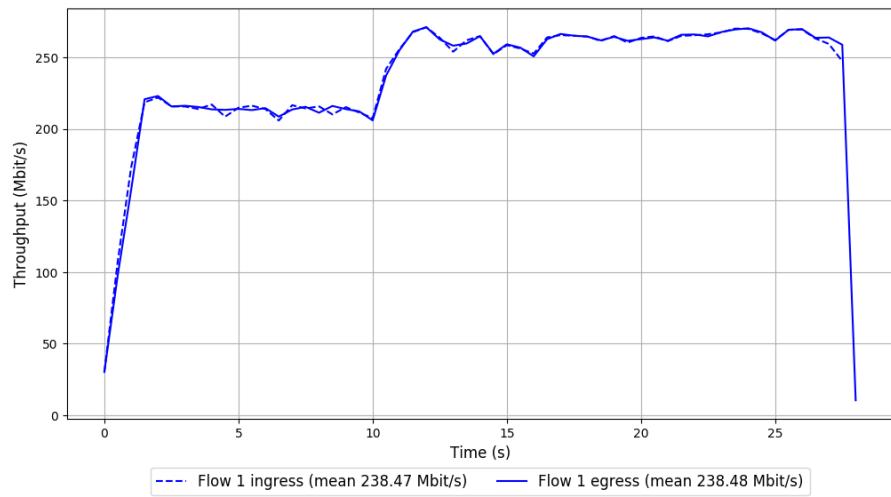
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 17:23:12

End at: 2018-01-16 17:23:42

```
# Below is generated by plot.py at 2018-01-16 21:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.48 Mbit/s
95th percentile per-packet one-way delay: 50.562 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.48 Mbit/s
95th percentile per-packet one-way delay: 50.562 ms
Loss rate: 0.00%
```

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



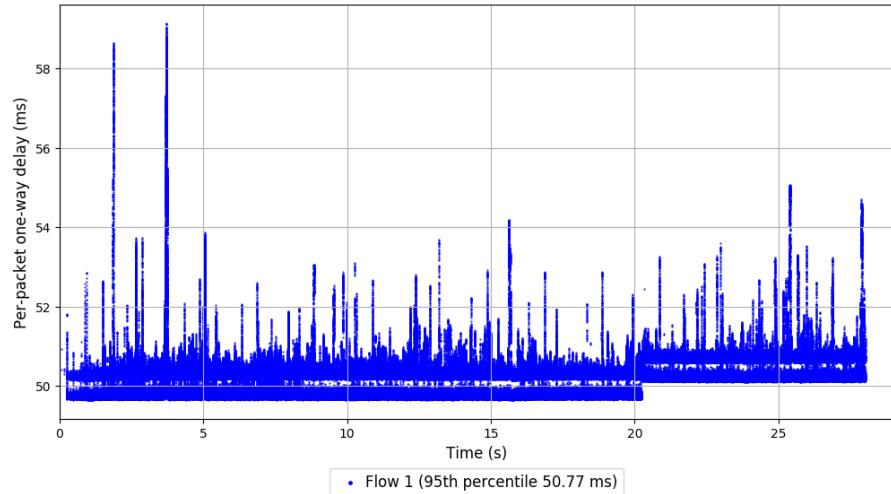
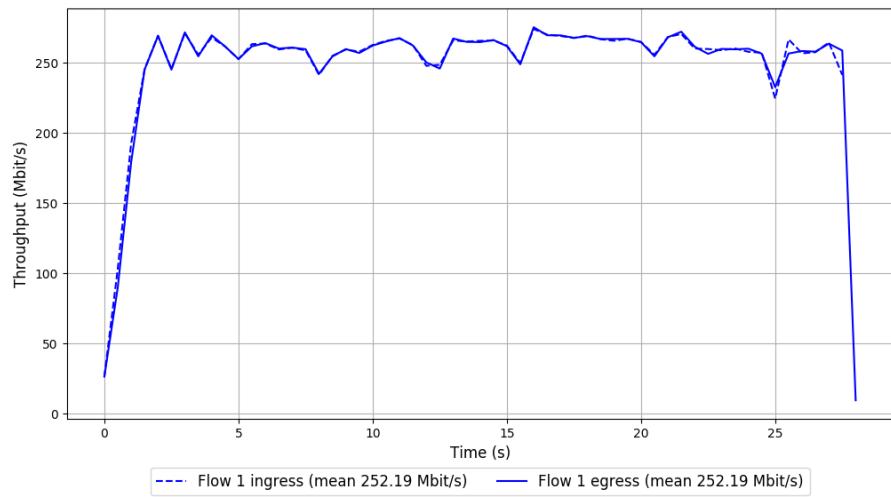
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 17:37:22

End at: 2018-01-16 17:37:52

```
# Below is generated by plot.py at 2018-01-16 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.19 Mbit/s
95th percentile per-packet one-way delay: 50.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 252.19 Mbit/s
95th percentile per-packet one-way delay: 50.775 ms
Loss rate: 0.00%
```

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



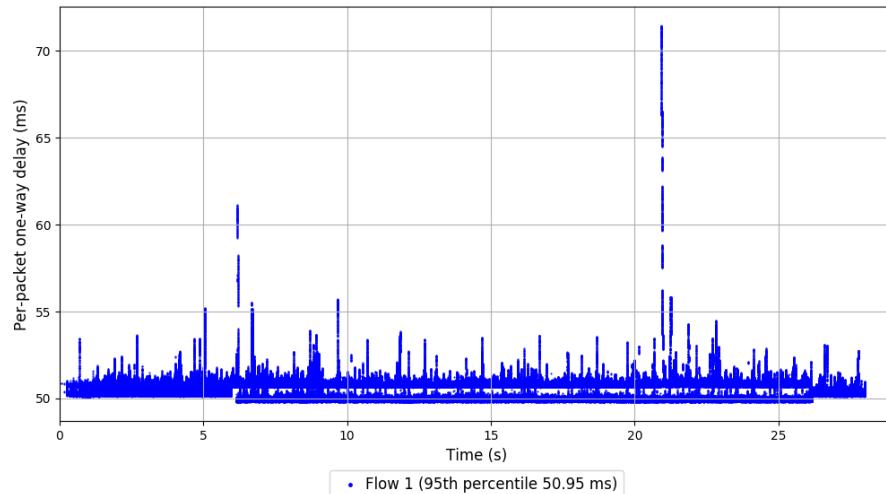
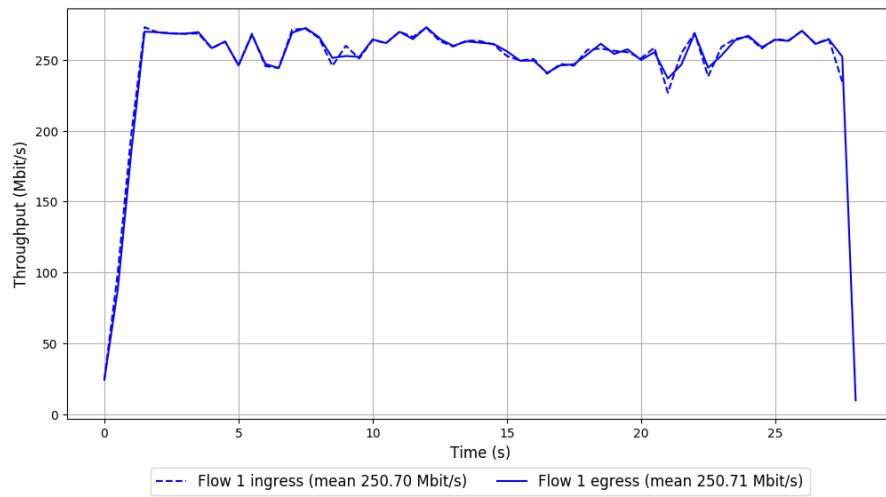
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 17:51:26

End at: 2018-01-16 17:51:56

```
# Below is generated by plot.py at 2018-01-16 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 250.71 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 250.71 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 0.00%
```

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



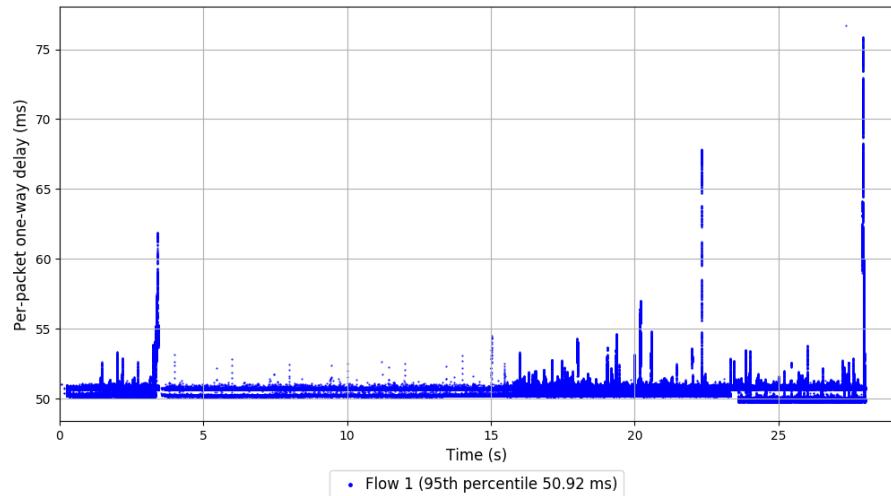
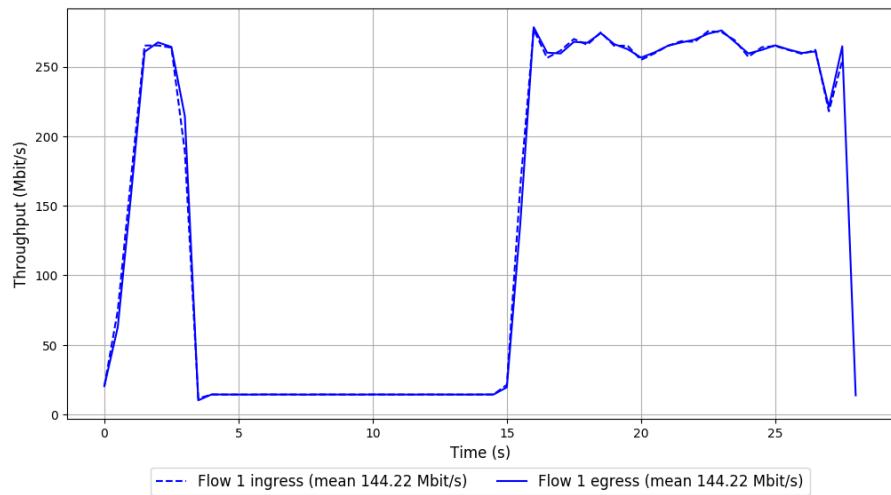
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 18:05:19

End at: 2018-01-16 18:05:49

```
# Below is generated by plot.py at 2018-01-16 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.22 Mbit/s
95th percentile per-packet one-way delay: 50.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.22 Mbit/s
95th percentile per-packet one-way delay: 50.921 ms
Loss rate: 0.00%
```

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



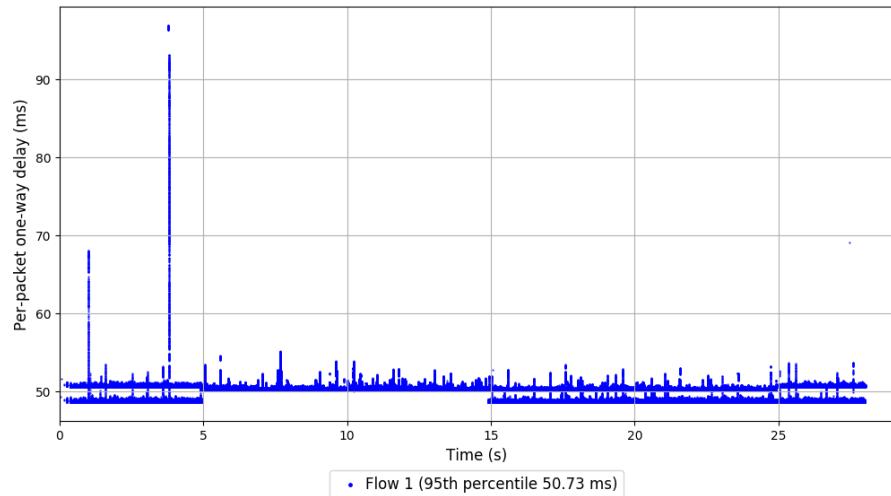
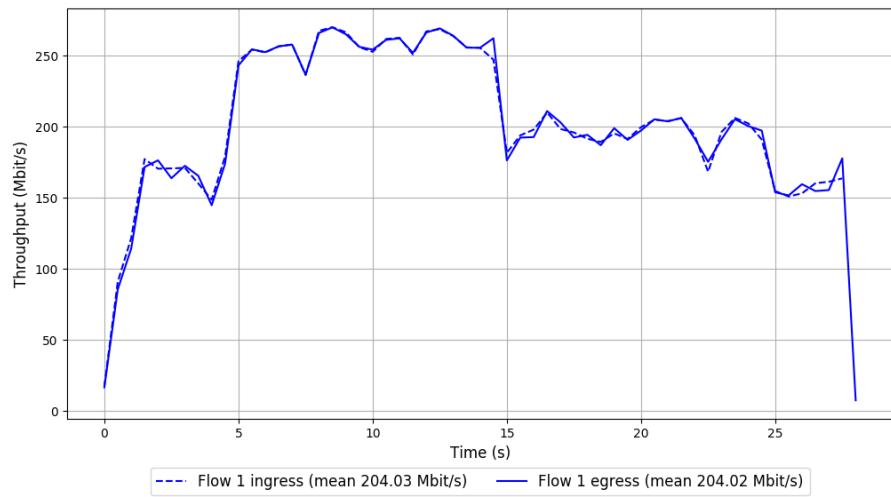
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 18:19:17

End at: 2018-01-16 18:19:47

```
# Below is generated by plot.py at 2018-01-16 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.02 Mbit/s
95th percentile per-packet one-way delay: 50.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.02 Mbit/s
95th percentile per-packet one-way delay: 50.729 ms
Loss rate: 0.00%
```

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



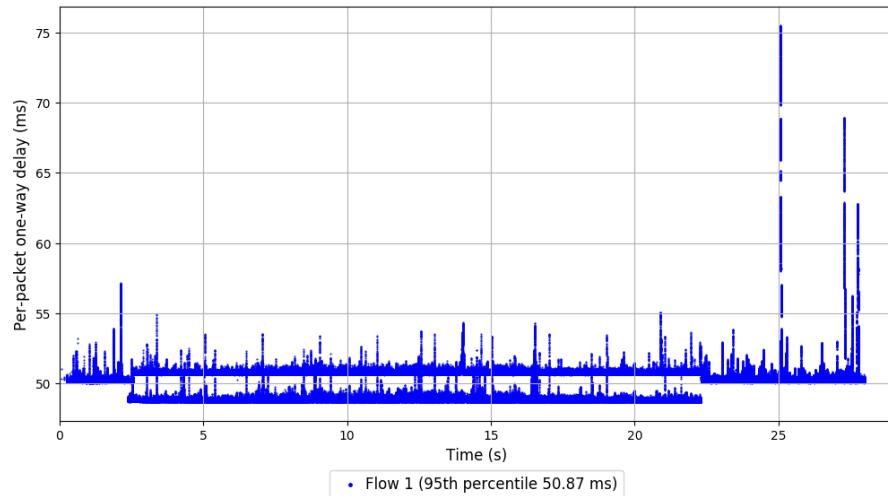
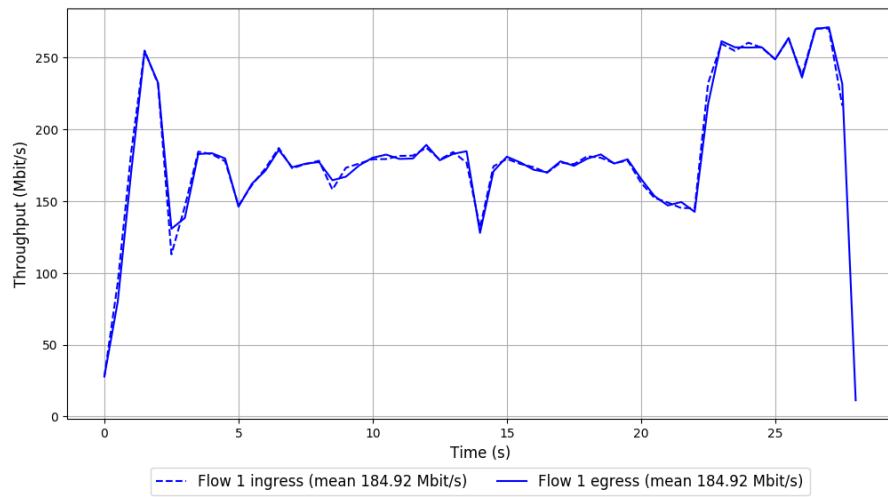
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 18:33:20

End at: 2018-01-16 18:33:50

```
# Below is generated by plot.py at 2018-01-16 21:24:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.92 Mbit/s
95th percentile per-packet one-way delay: 50.871 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 184.92 Mbit/s
95th percentile per-packet one-way delay: 50.871 ms
Loss rate: 0.00%
```

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



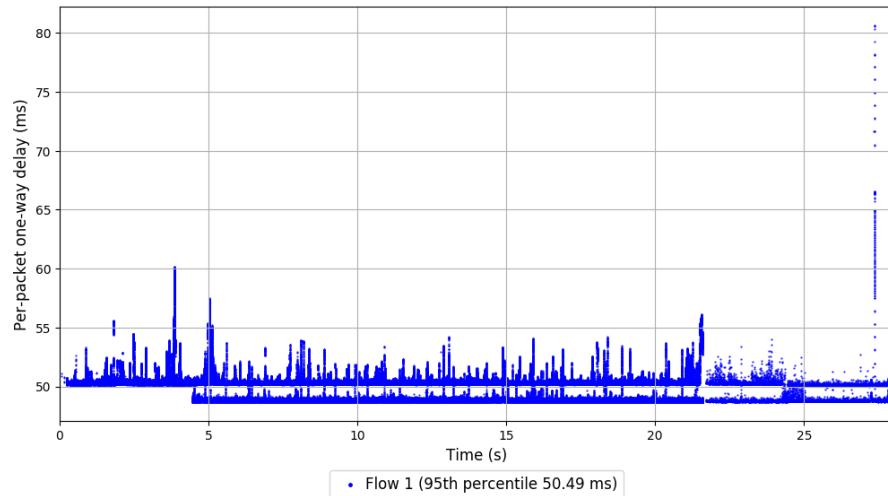
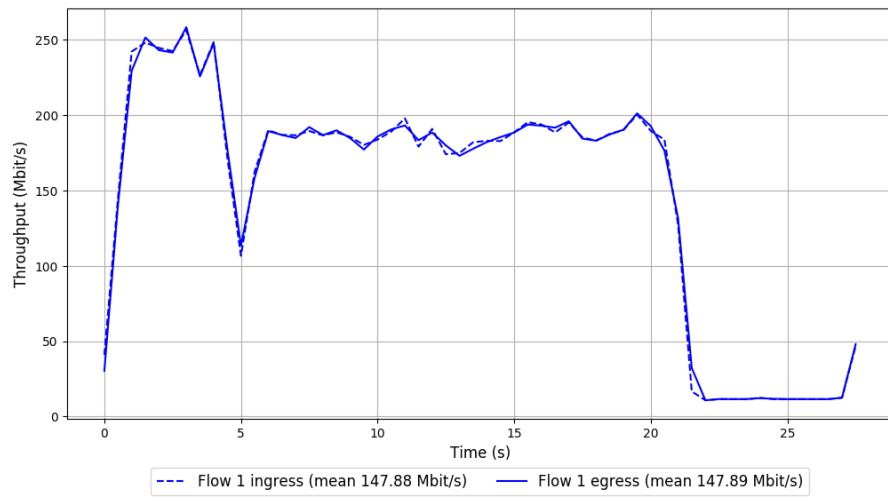
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-16 18:47:08

End at: 2018-01-16 18:47:38

```
# Below is generated by plot.py at 2018-01-16 21:24:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 147.89 Mbit/s
95th percentile per-packet one-way delay: 50.487 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 147.89 Mbit/s
95th percentile per-packet one-way delay: 50.487 ms
Loss rate: 0.00%
```

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



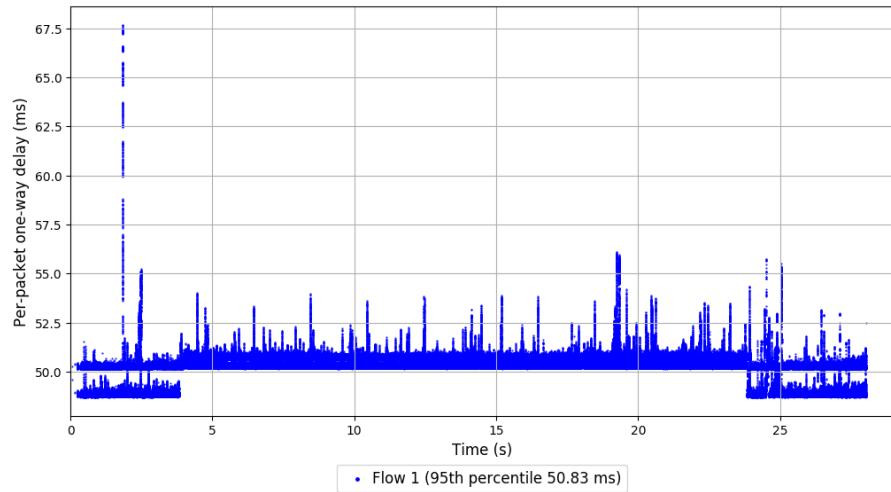
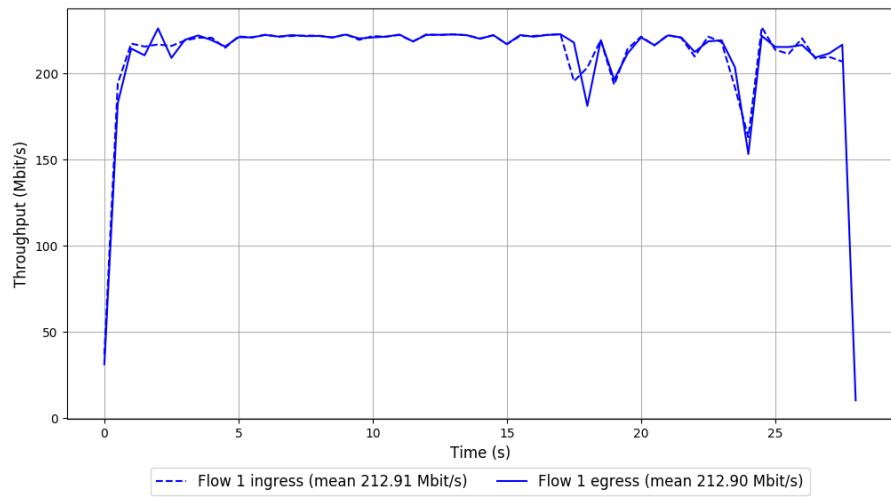
Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 19:01:18

End at: 2018-01-16 19:01:49

```
# Below is generated by plot.py at 2018-01-16 21:28:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.90 Mbit/s
95th percentile per-packet one-way delay: 50.828 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.90 Mbit/s
95th percentile per-packet one-way delay: 50.828 ms
Loss rate: 0.00%
```

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



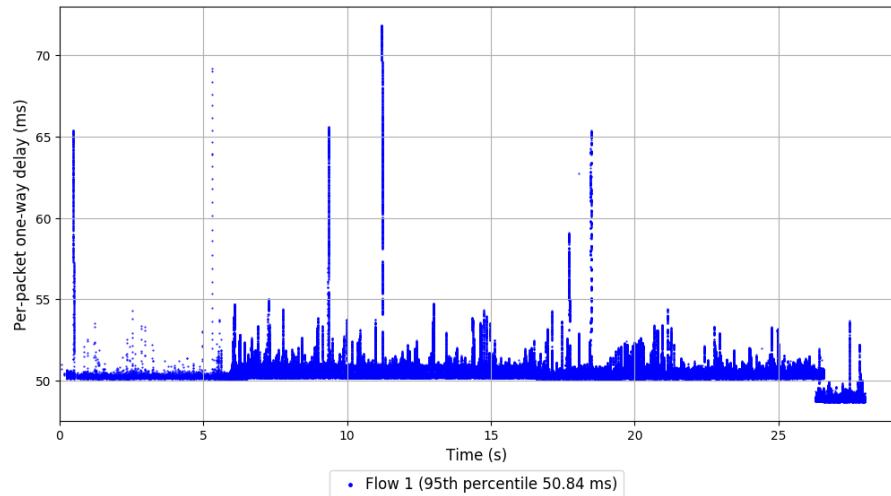
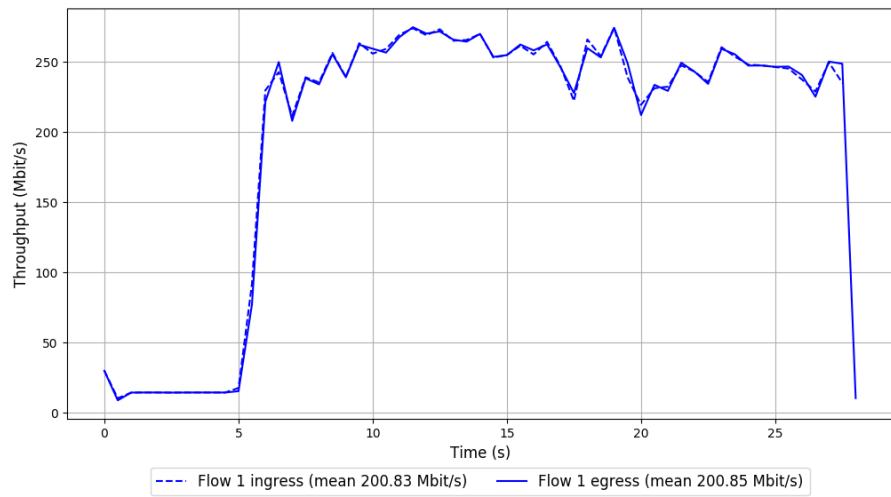
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 19:15:36

End at: 2018-01-16 19:16:06

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.85 Mbit/s
95th percentile per-packet one-way delay: 50.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.85 Mbit/s
95th percentile per-packet one-way delay: 50.841 ms
Loss rate: 0.00%
```

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



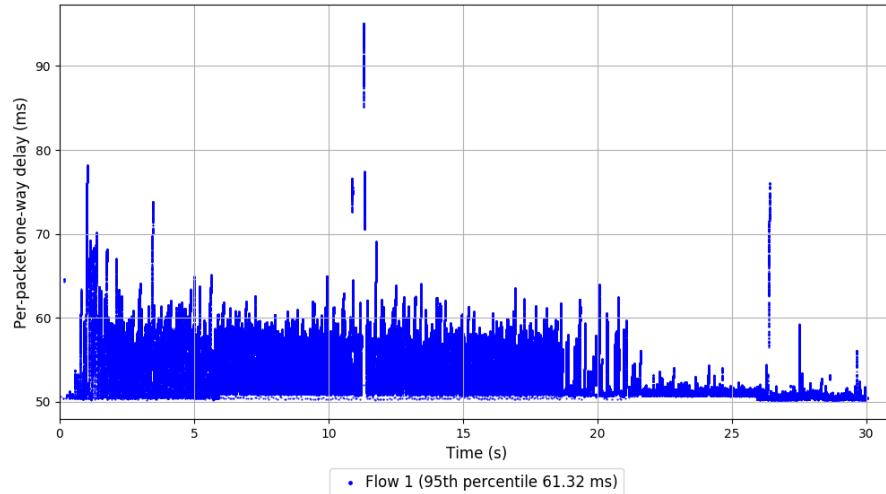
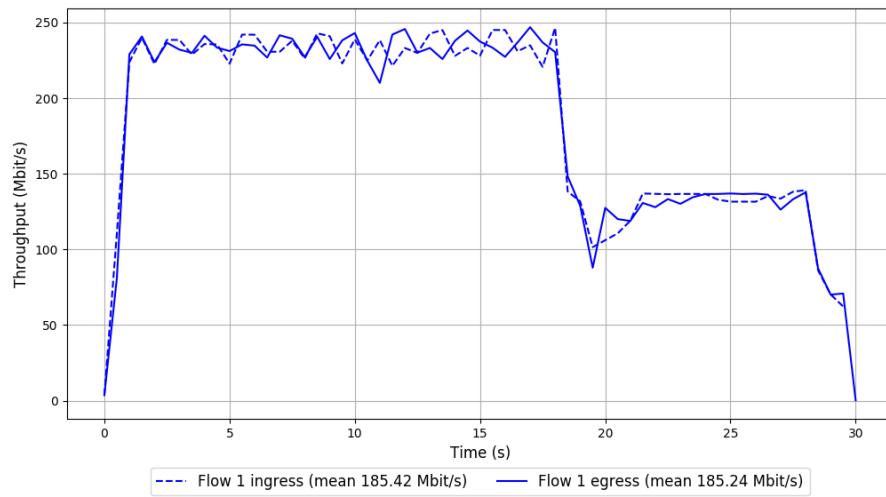
Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 17:10:38

End at: 2018-01-16 17:11:08

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.24 Mbit/s
95th percentile per-packet one-way delay: 61.324 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 185.24 Mbit/s
95th percentile per-packet one-way delay: 61.324 ms
Loss rate: 0.09%
```

Run 1: Report of TCP Vegas — Data Link



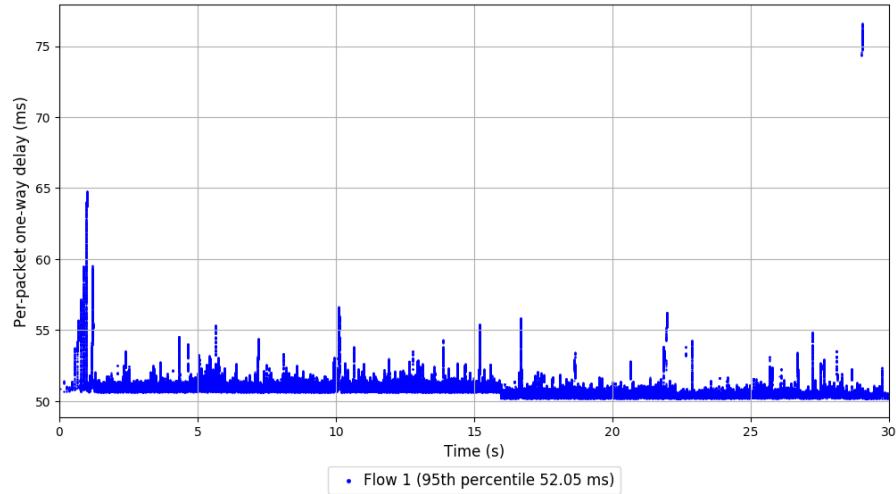
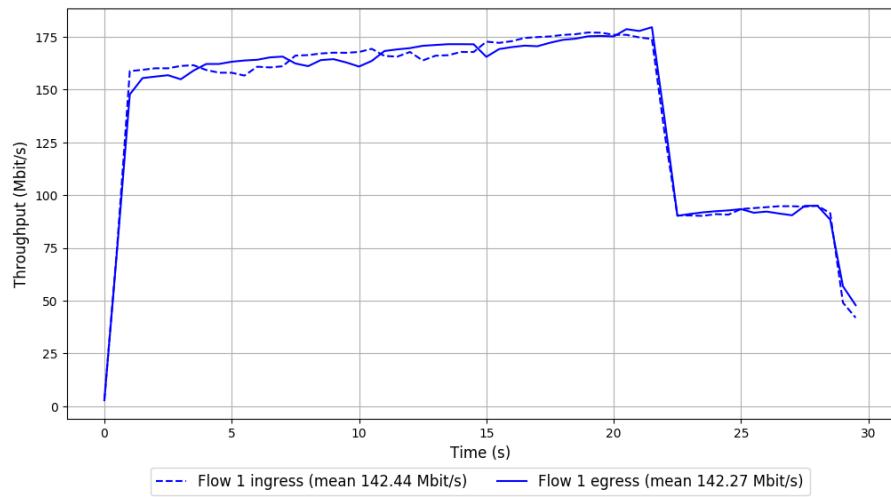
Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 17:24:58

End at: 2018-01-16 17:25:28

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.27 Mbit/s
95th percentile per-packet one-way delay: 52.047 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 142.27 Mbit/s
95th percentile per-packet one-way delay: 52.047 ms
Loss rate: 0.12%
```

## Run 2: Report of TCP Vegas — Data Link



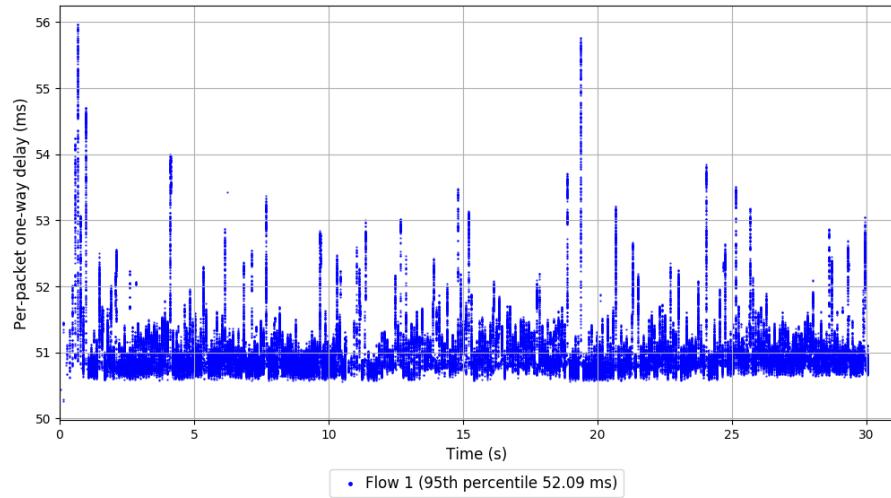
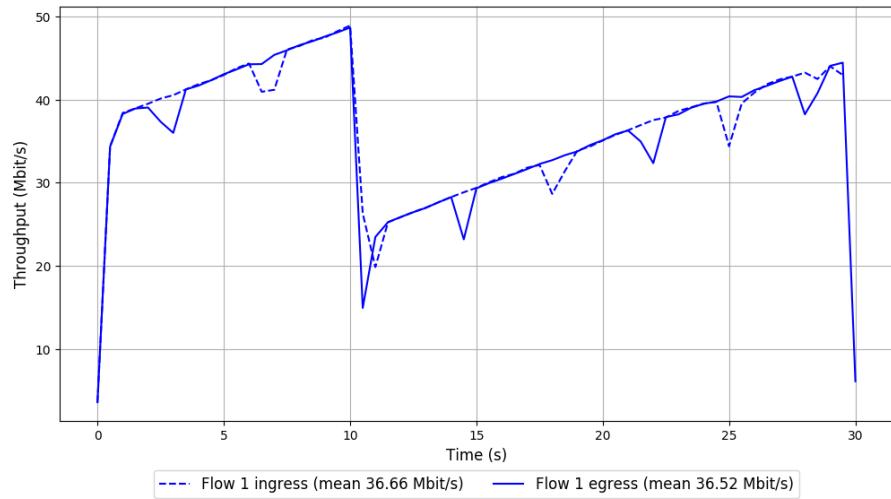
Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 17:39:10

End at: 2018-01-16 17:39:40

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.52 Mbit/s
95th percentile per-packet one-way delay: 52.093 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 36.52 Mbit/s
95th percentile per-packet one-way delay: 52.093 ms
Loss rate: 0.40%
```

### Run 3: Report of TCP Vegas — Data Link



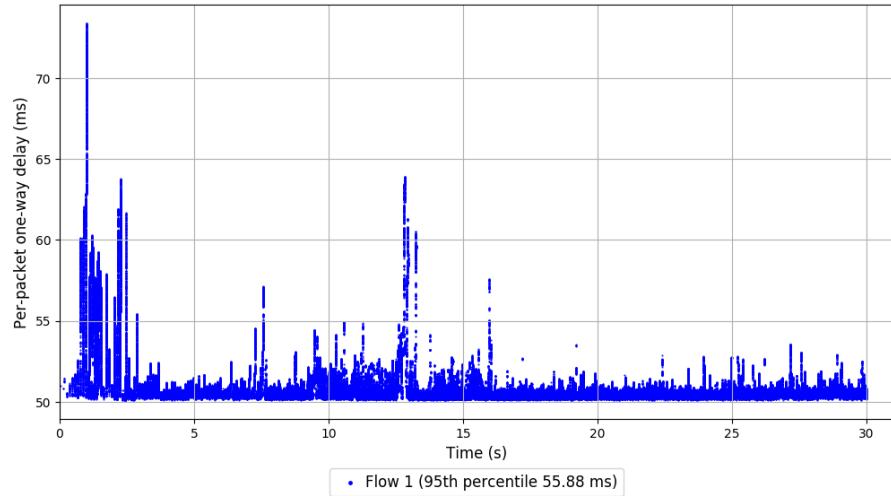
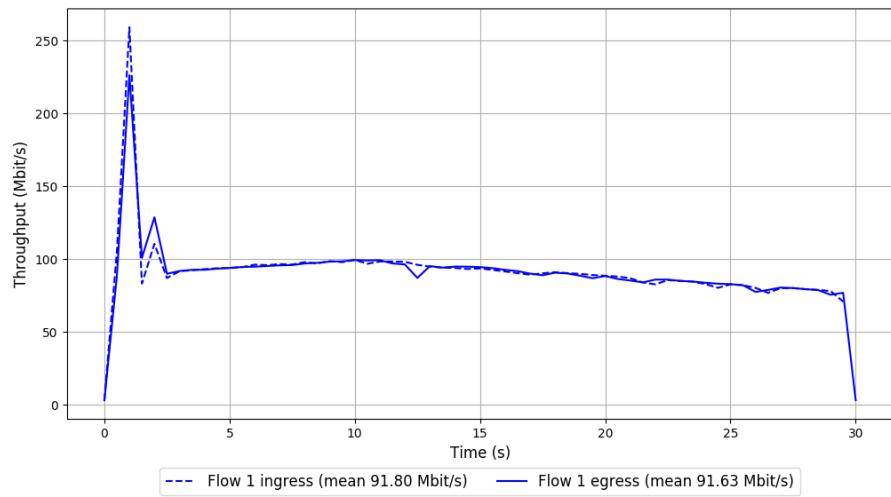
Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 17:53:14

End at: 2018-01-16 17:53:44

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: 55.883 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 91.63 Mbit/s
95th percentile per-packet one-way delay: 55.883 ms
Loss rate: 0.18%
```

### Run 4: Report of TCP Vegas — Data Link



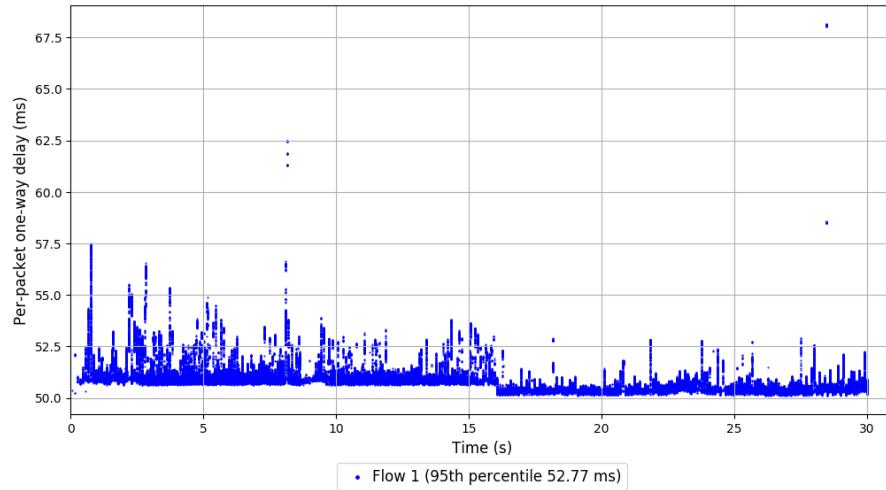
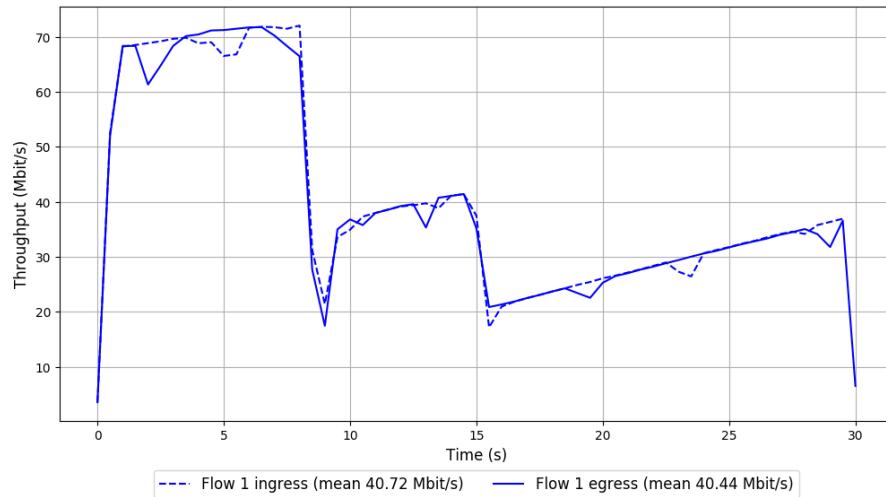
Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 18:06:58

End at: 2018-01-16 18:07:28

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 52.772 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 40.44 Mbit/s
95th percentile per-packet one-way delay: 52.772 ms
Loss rate: 0.69%
```

### Run 5: Report of TCP Vegas — Data Link



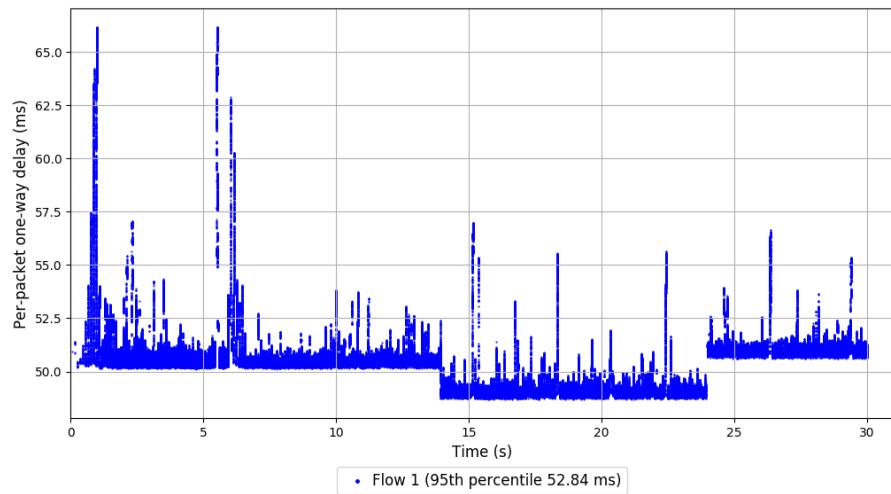
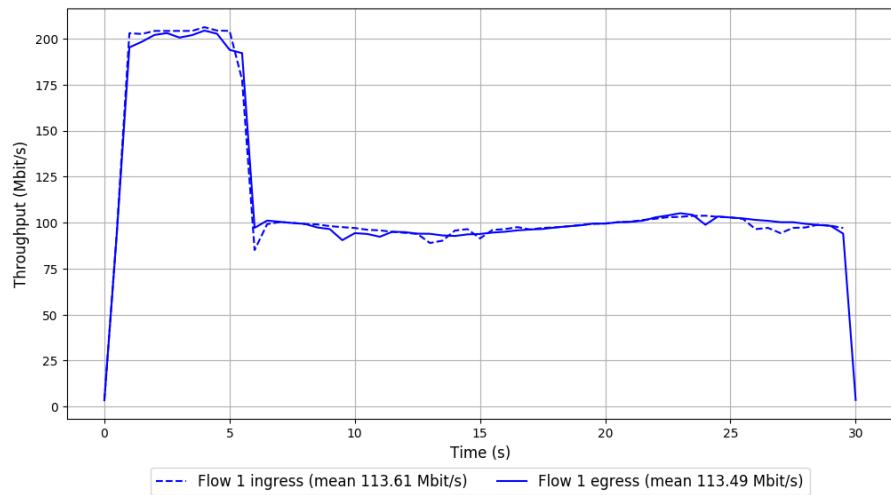
Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 18:21:00

End at: 2018-01-16 18:21:30

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 113.49 Mbit/s
95th percentile per-packet one-way delay: 52.835 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 113.49 Mbit/s
95th percentile per-packet one-way delay: 52.835 ms
Loss rate: 0.11%
```

### Run 6: Report of TCP Vegas — Data Link



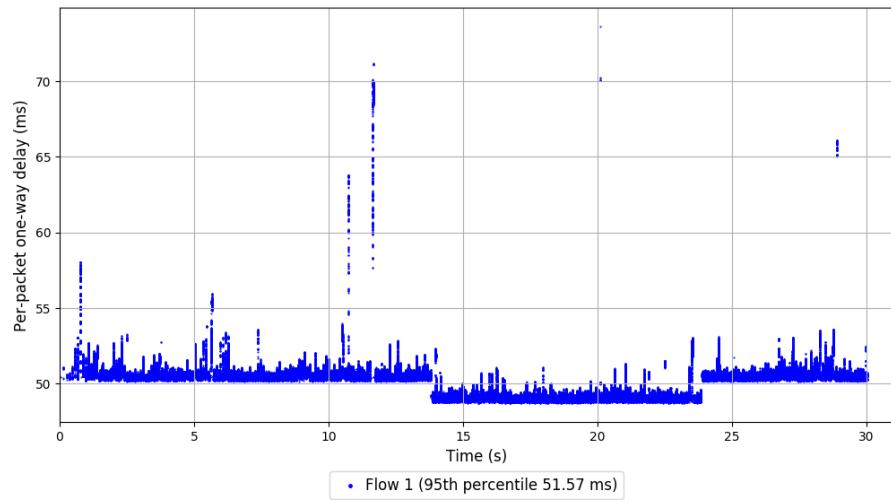
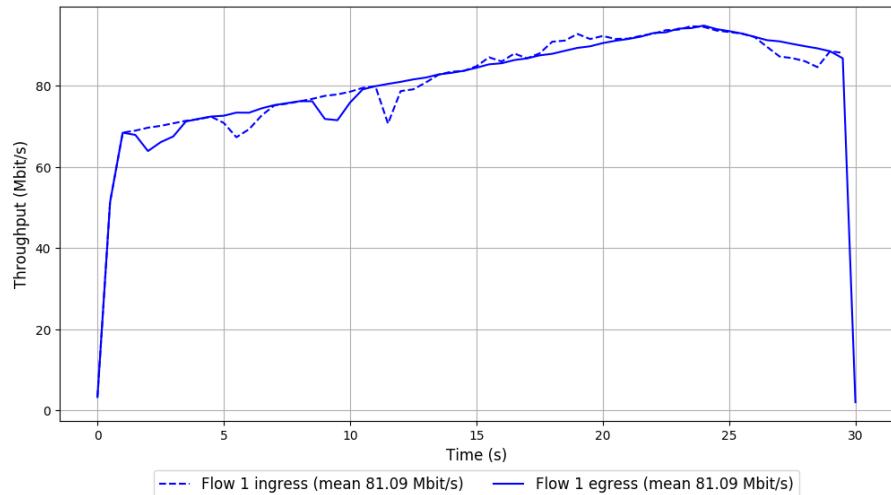
Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 18:35:00

End at: 2018-01-16 18:35:30

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.09 Mbit/s
95th percentile per-packet one-way delay: 51.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.09 Mbit/s
95th percentile per-packet one-way delay: 51.572 ms
Loss rate: 0.00%
```

### Run 7: Report of TCP Vegas — Data Link



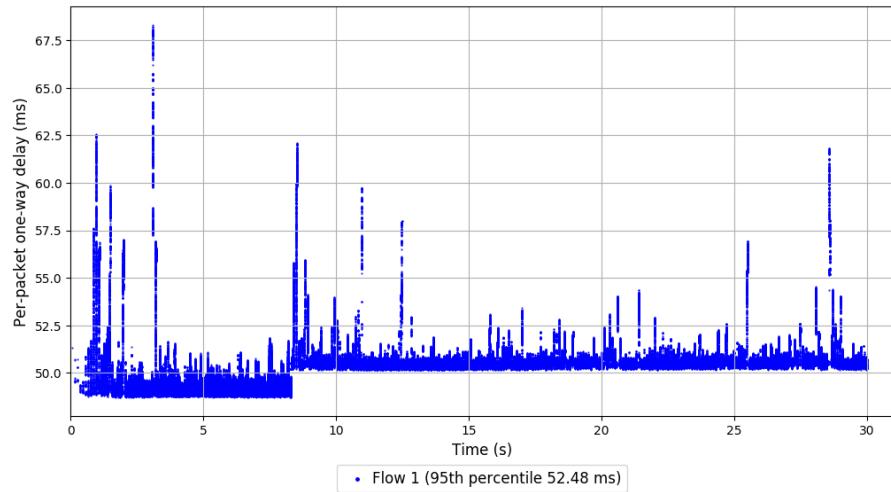
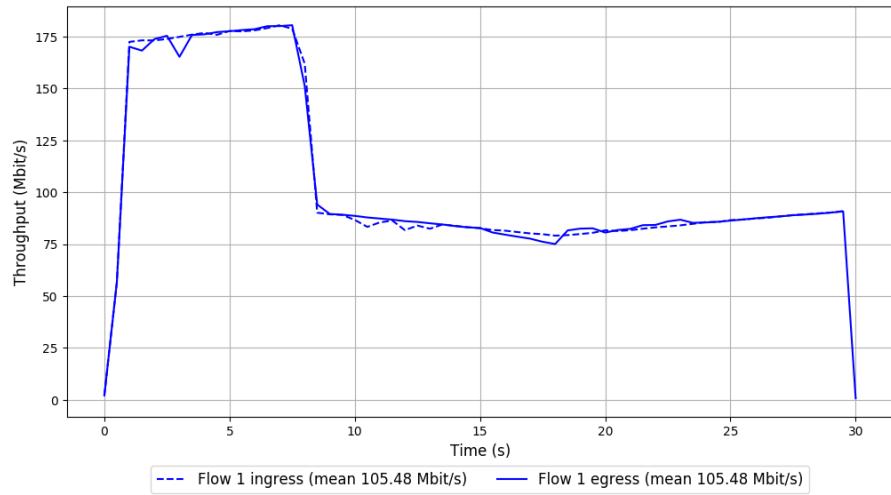
Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 18:48:46

End at: 2018-01-16 18:49:16

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 105.48 Mbit/s
95th percentile per-packet one-way delay: 52.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.48 Mbit/s
95th percentile per-packet one-way delay: 52.478 ms
Loss rate: 0.00%
```

### Run 8: Report of TCP Vegas — Data Link



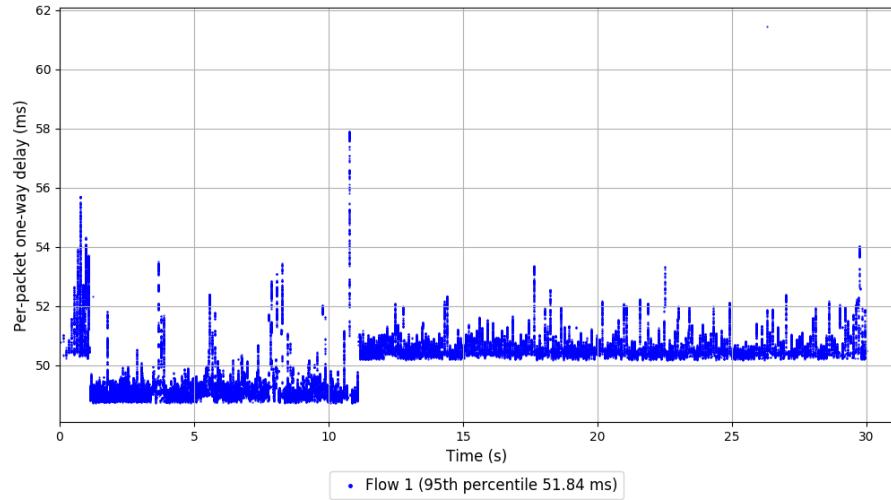
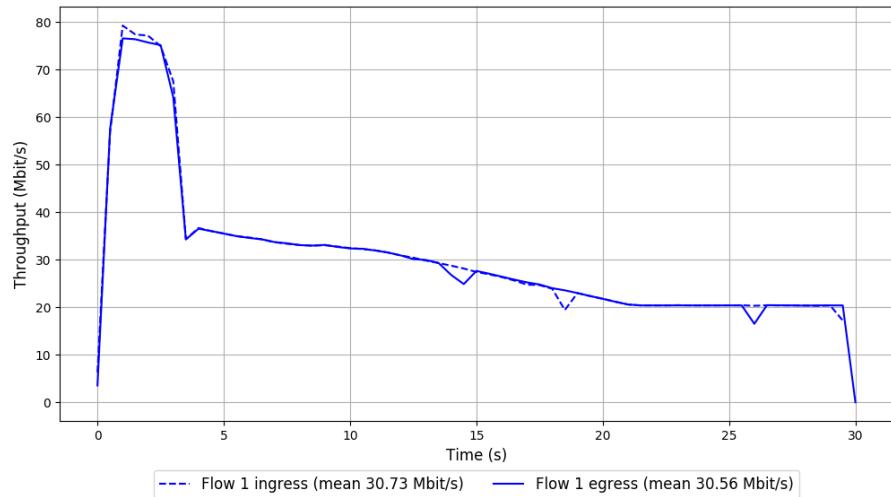
Run 9: Statistics of TCP Vegas

Start at: 2018-01-16 19:03:03

End at: 2018-01-16 19:03:33

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 51.844 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 30.56 Mbit/s
95th percentile per-packet one-way delay: 51.844 ms
Loss rate: 0.59%
```

### Run 9: Report of TCP Vegas — Data Link



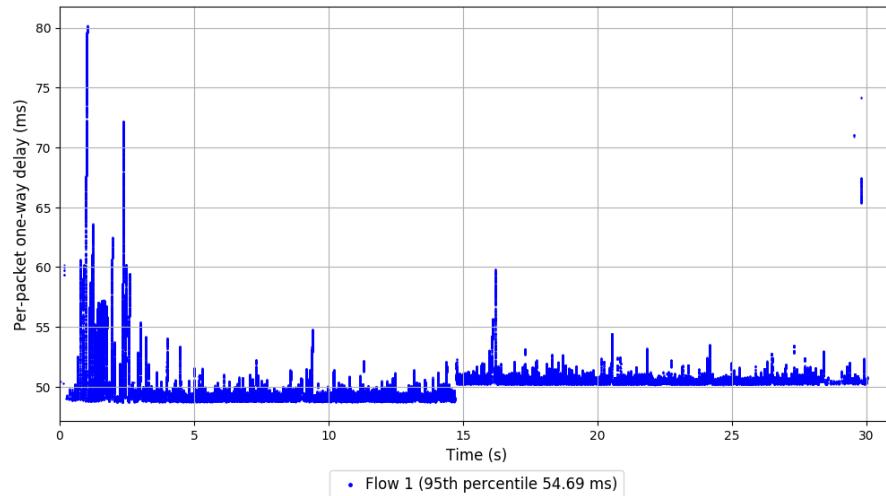
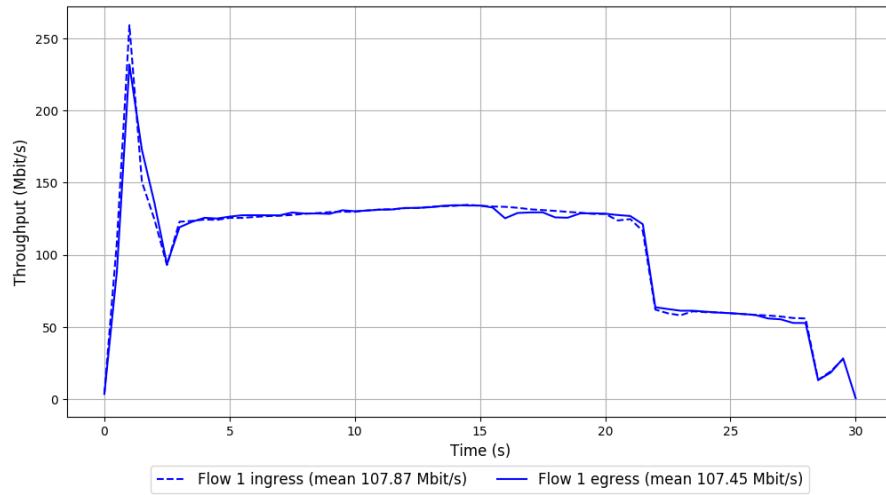
Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 19:17:20

End at: 2018-01-16 19:17:50

```
# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.45 Mbit/s
95th percentile per-packet one-way delay: 54.686 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 107.45 Mbit/s
95th percentile per-packet one-way delay: 54.686 ms
Loss rate: 0.39%
```

Run 10: Report of TCP Vegas — Data Link



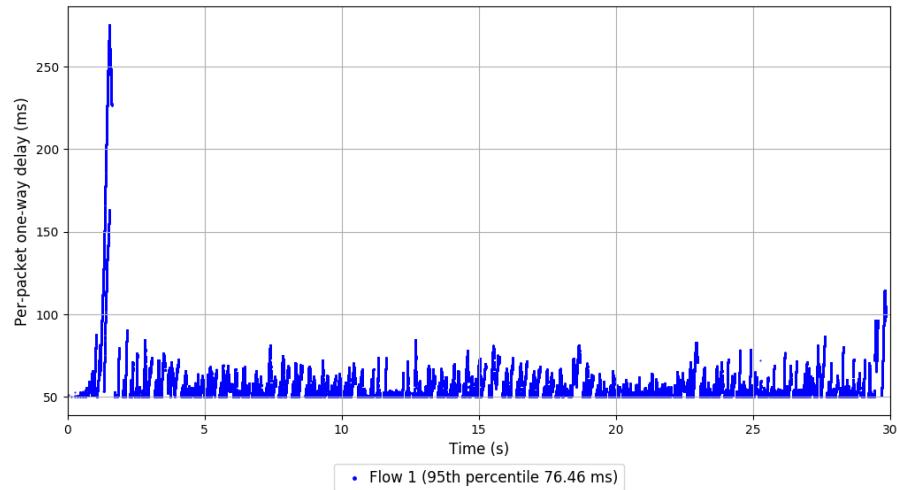
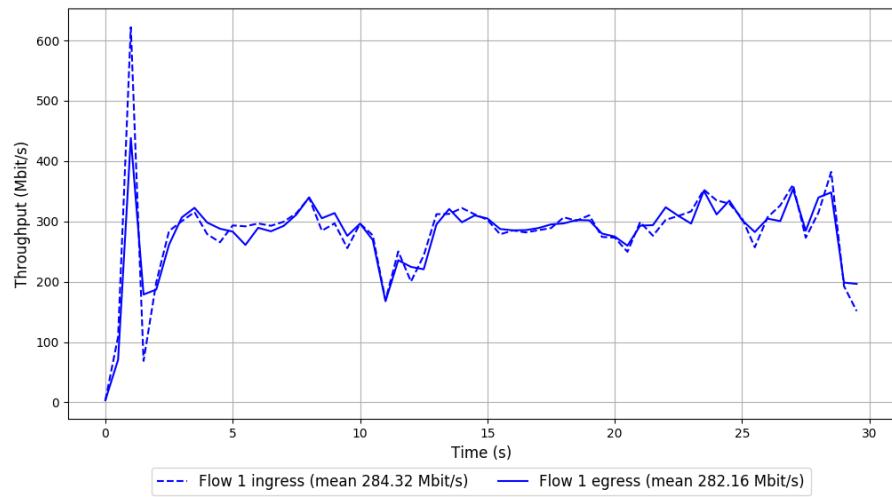
Run 1: Statistics of Verus

Start at: 2018-01-16 17:01:20

End at: 2018-01-16 17:01:50

```
# Below is generated by plot.py at 2018-01-16 21:31:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.16 Mbit/s
95th percentile per-packet one-way delay: 76.456 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 282.16 Mbit/s
95th percentile per-packet one-way delay: 76.456 ms
Loss rate: 0.59%
```

Run 1: Report of Verus — Data Link



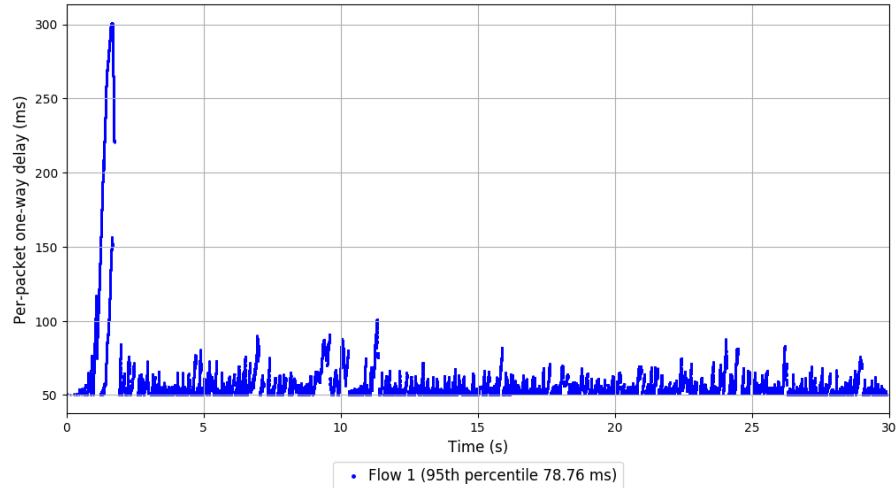
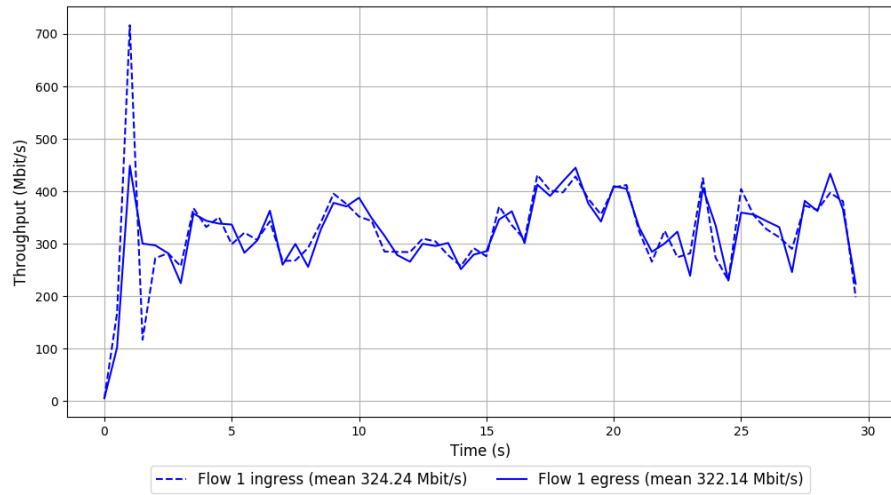
Run 2: Statistics of Verus

Start at: 2018-01-16 17:15:38

End at: 2018-01-16 17:16:08

```
# Below is generated by plot.py at 2018-01-16 21:31:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.14 Mbit/s
95th percentile per-packet one-way delay: 78.761 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 322.14 Mbit/s
95th percentile per-packet one-way delay: 78.761 ms
Loss rate: 0.65%
```

Run 2: Report of Verus — Data Link



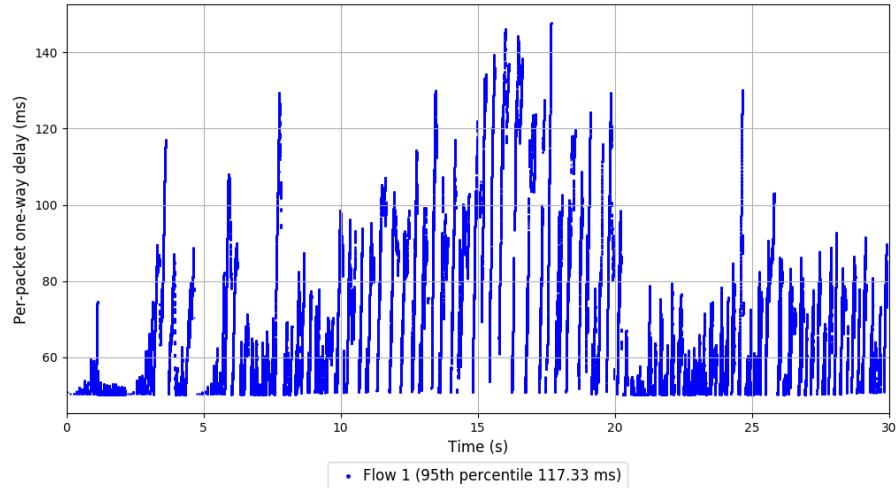
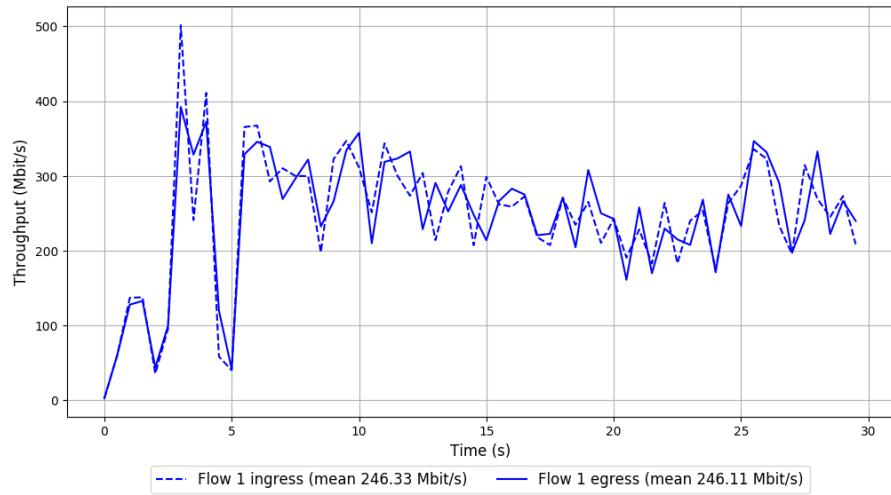
Run 3: Statistics of Verus

Start at: 2018-01-16 17:29:56

End at: 2018-01-16 17:30:26

```
# Below is generated by plot.py at 2018-01-16 21:31:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.11 Mbit/s
95th percentile per-packet one-way delay: 117.328 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 246.11 Mbit/s
95th percentile per-packet one-way delay: 117.328 ms
Loss rate: 0.06%
```

### Run 3: Report of Verus — Data Link



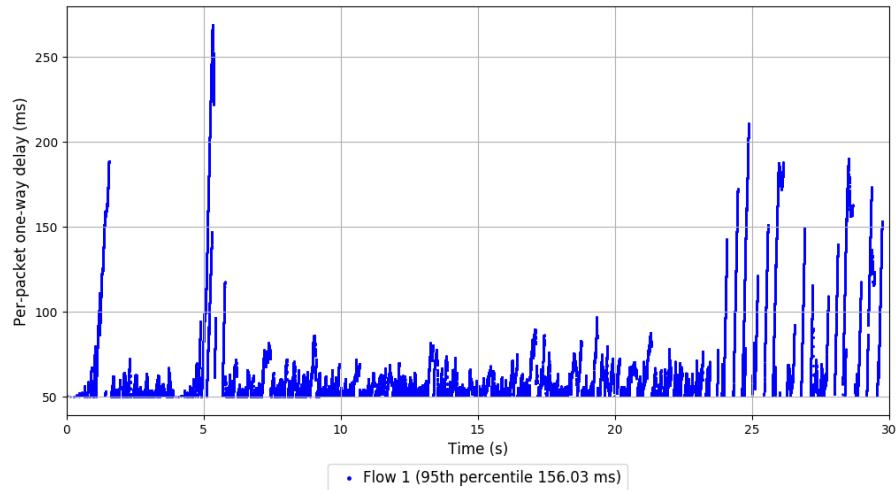
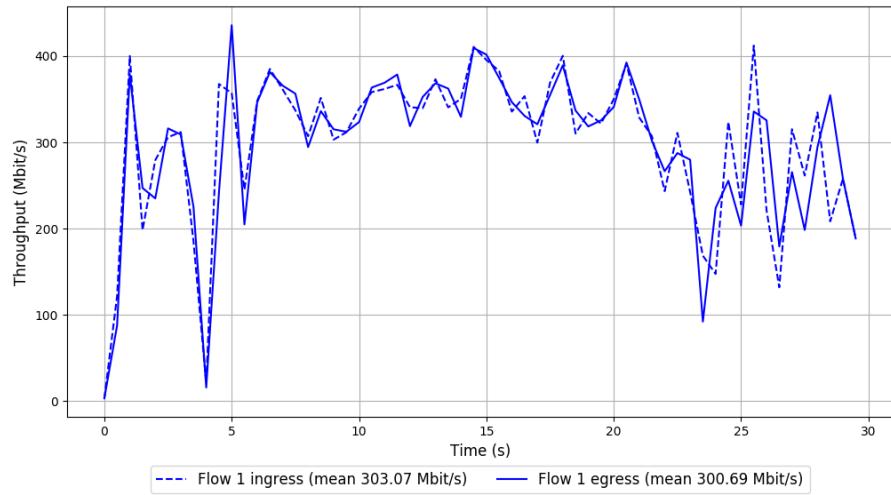
Run 4: Statistics of Verus

Start at: 2018-01-16 17:44:05

End at: 2018-01-16 17:44:35

```
# Below is generated by plot.py at 2018-01-16 21:31:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.69 Mbit/s
95th percentile per-packet one-way delay: 156.032 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 300.69 Mbit/s
95th percentile per-packet one-way delay: 156.032 ms
Loss rate: 0.44%
```

## Run 4: Report of Verus — Data Link



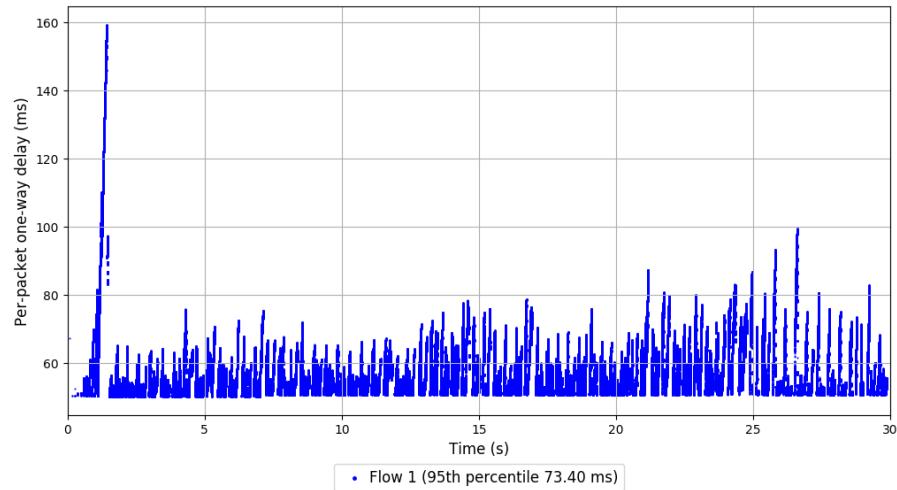
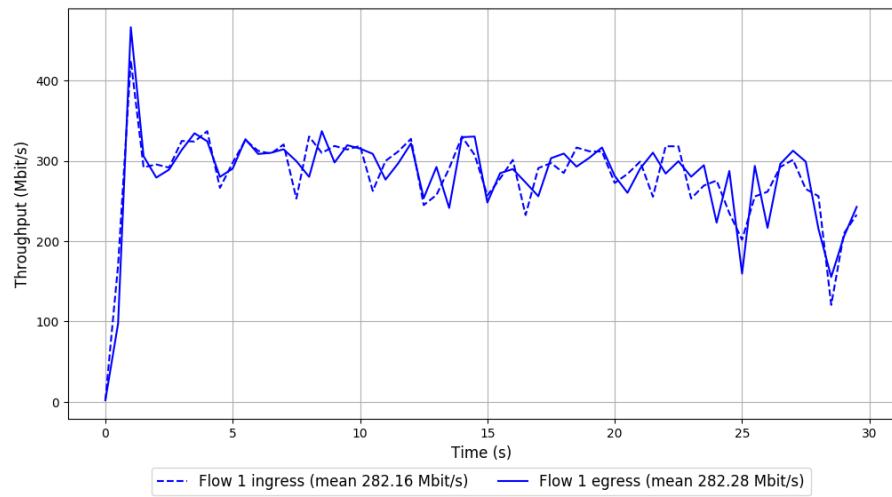
Run 5: Statistics of Verus

Start at: 2018-01-16 17:58:07

End at: 2018-01-16 17:58:37

```
# Below is generated by plot.py at 2018-01-16 21:31:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 282.28 Mbit/s
95th percentile per-packet one-way delay: 73.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 282.28 Mbit/s
95th percentile per-packet one-way delay: 73.398 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link



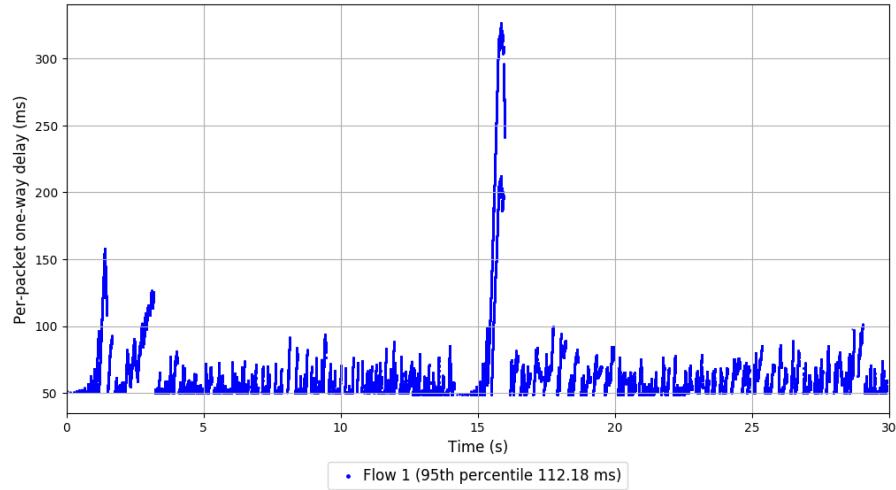
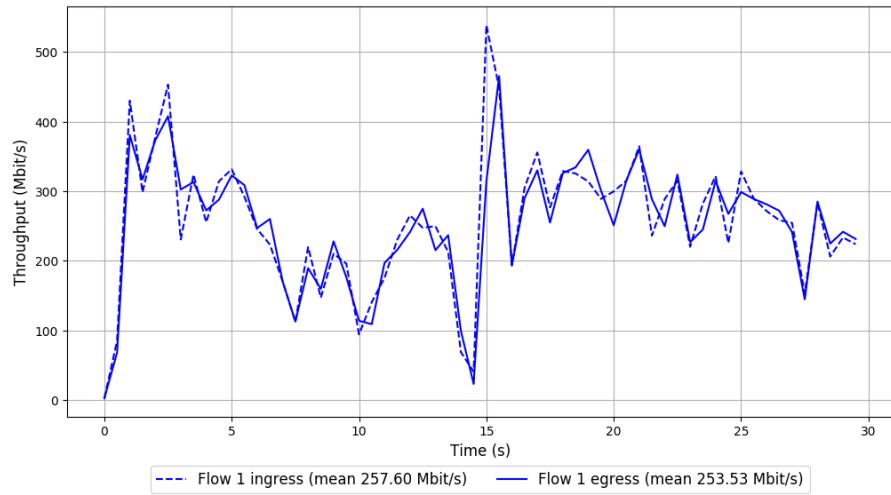
Run 6: Statistics of Verus

Start at: 2018-01-16 18:11:52

End at: 2018-01-16 18:12:22

```
# Below is generated by plot.py at 2018-01-16 21:32:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 253.53 Mbit/s
95th percentile per-packet one-way delay: 112.181 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 253.53 Mbit/s
95th percentile per-packet one-way delay: 112.181 ms
Loss rate: 1.59%
```

Run 6: Report of Verus — Data Link



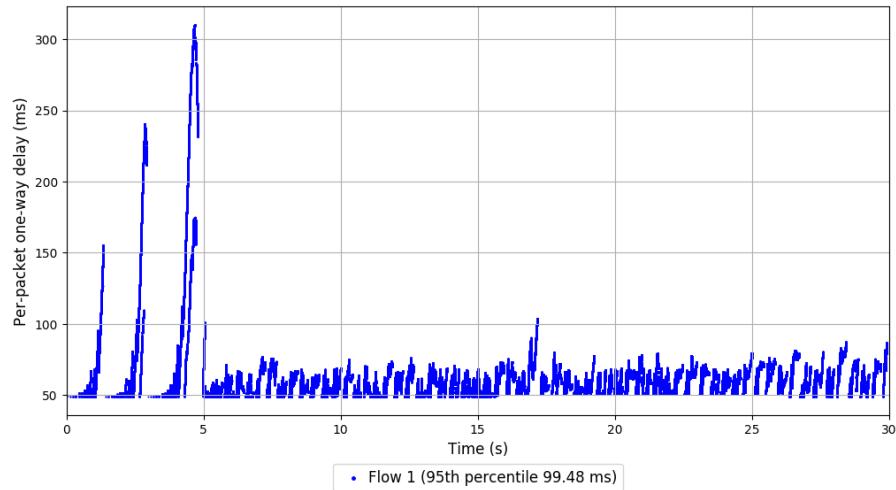
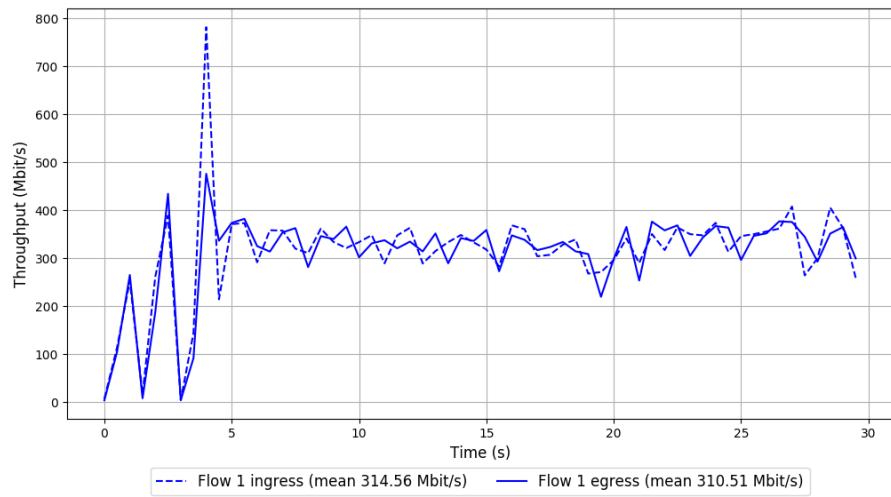
Run 7: Statistics of Verus

Start at: 2018-01-16 18:25:58

End at: 2018-01-16 18:26:28

```
# Below is generated by plot.py at 2018-01-16 21:33:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.51 Mbit/s
95th percentile per-packet one-way delay: 99.477 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 310.51 Mbit/s
95th percentile per-packet one-way delay: 99.477 ms
Loss rate: 1.28%
```

### Run 7: Report of Verus — Data Link



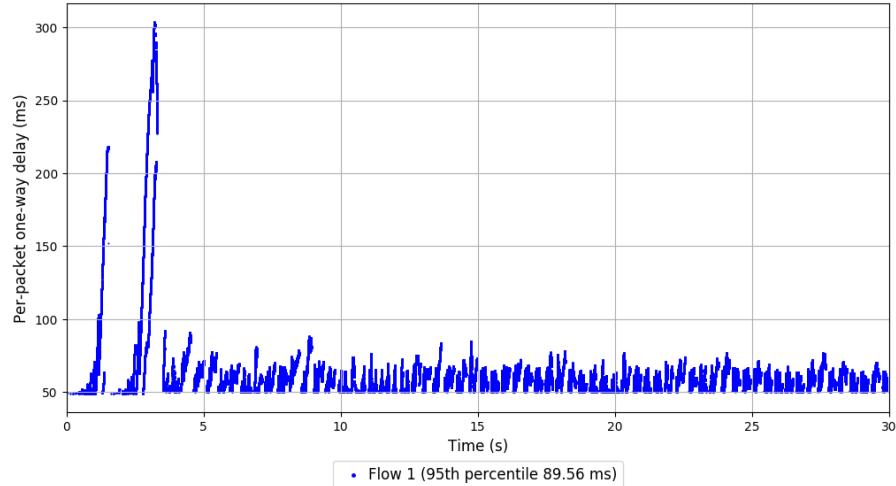
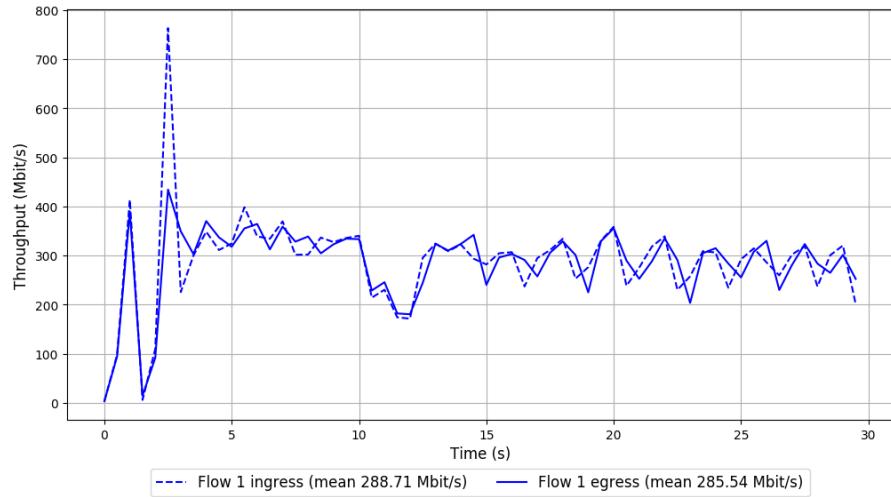
Run 8: Statistics of Verus

Start at: 2018-01-16 18:39:51

End at: 2018-01-16 18:40:21

```
# Below is generated by plot.py at 2018-01-16 21:34:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.54 Mbit/s
95th percentile per-packet one-way delay: 89.556 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 285.54 Mbit/s
95th percentile per-packet one-way delay: 89.556 ms
Loss rate: 1.08%
```

### Run 8: Report of Verus — Data Link



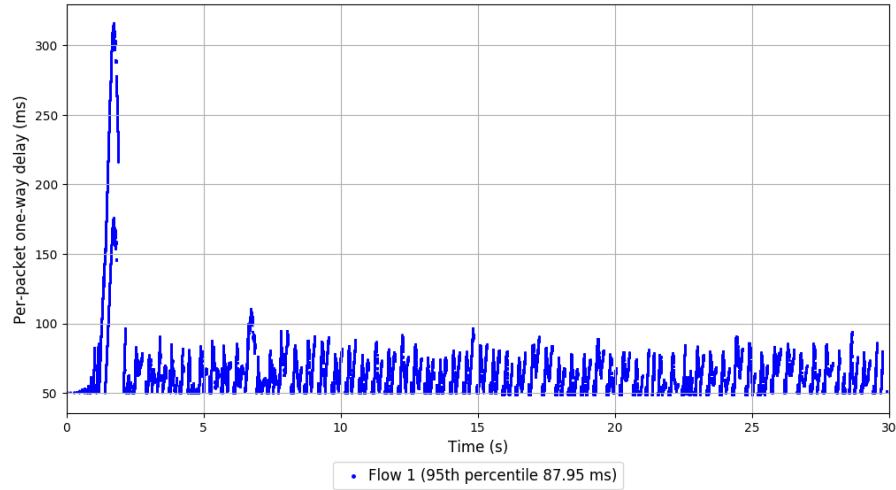
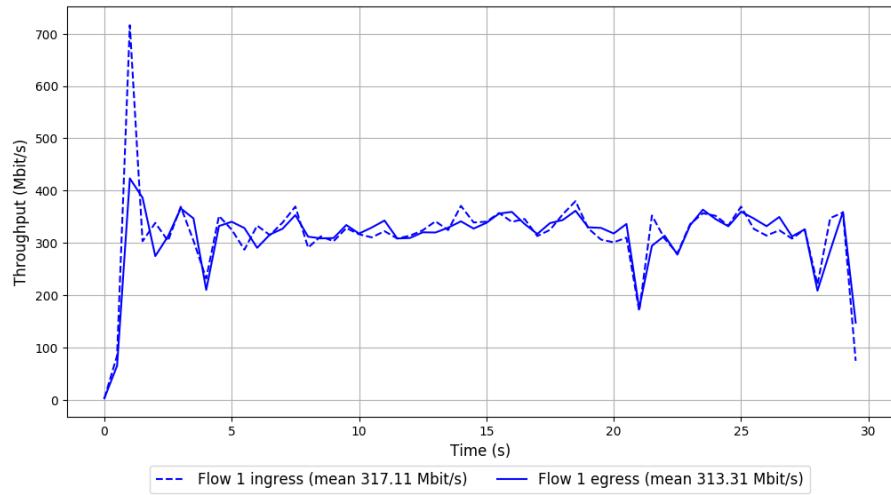
Run 9: Statistics of Verus

Start at: 2018-01-16 18:53:59

End at: 2018-01-16 18:54:29

```
# Below is generated by plot.py at 2018-01-16 21:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.31 Mbit/s
95th percentile per-packet one-way delay: 87.955 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 313.31 Mbit/s
95th percentile per-packet one-way delay: 87.955 ms
Loss rate: 1.21%
```

Run 9: Report of Verus — Data Link



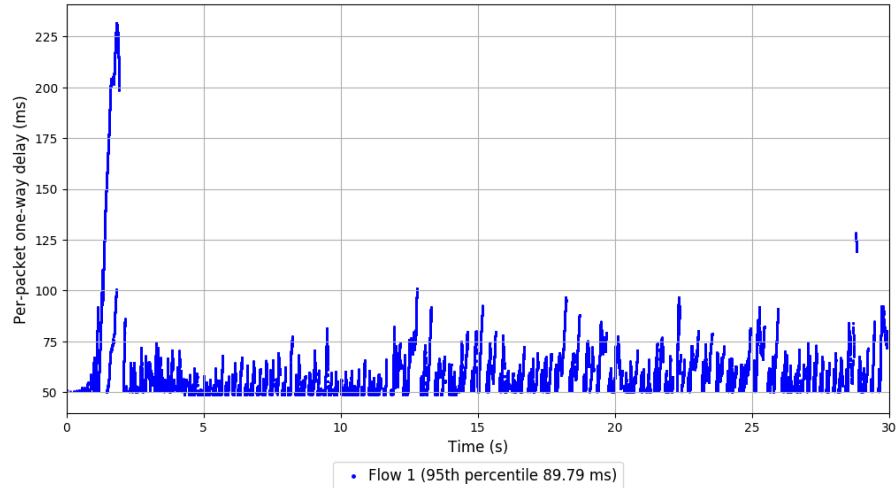
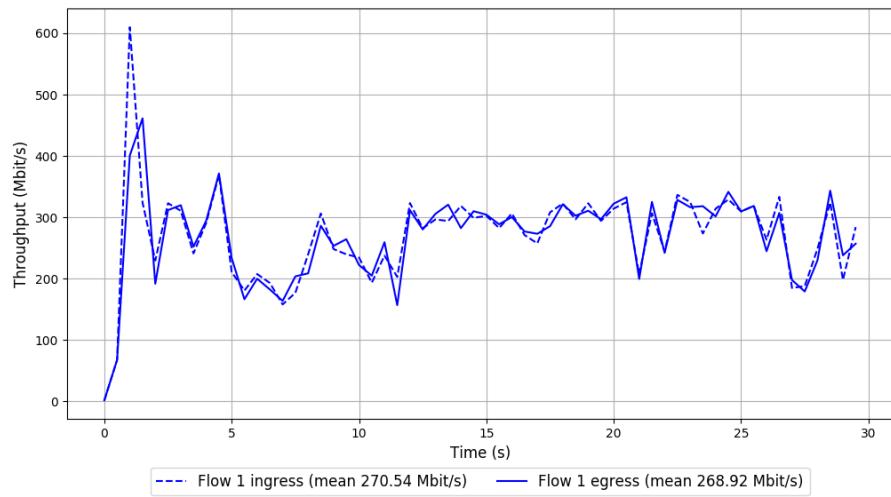
Run 10: Statistics of Verus

Start at: 2018-01-16 19:08:10

End at: 2018-01-16 19:08:40

```
# Below is generated by plot.py at 2018-01-16 21:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.92 Mbit/s
95th percentile per-packet one-way delay: 89.786 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 268.92 Mbit/s
95th percentile per-packet one-way delay: 89.786 ms
Loss rate: 0.61%
```

Run 10: Report of Verus — Data Link



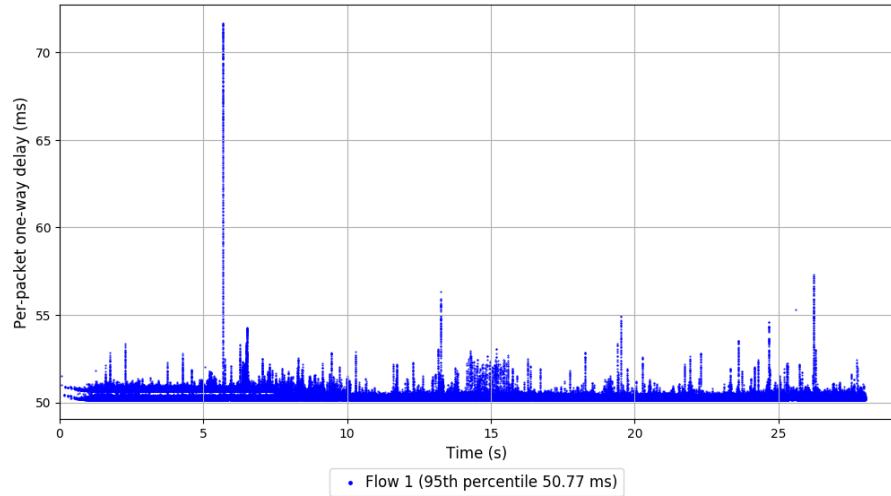
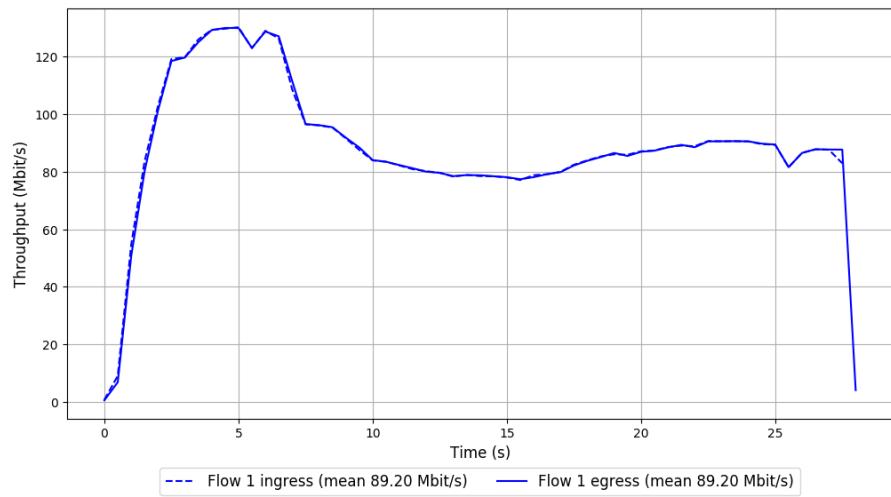
Run 1: Statistics of Copa

Start at: 2018-01-16 17:02:15

End at: 2018-01-16 17:02:45

```
# Below is generated by plot.py at 2018-01-16 21:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 50.766 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 50.766 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



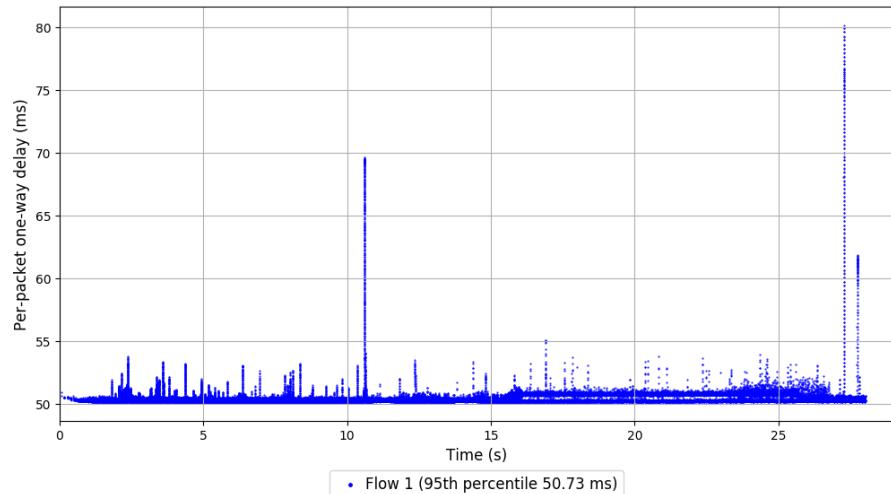
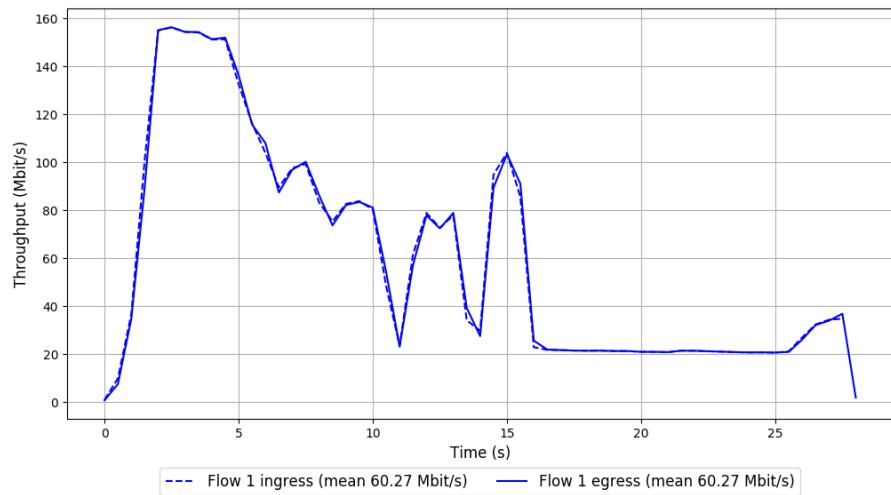
Run 2: Statistics of Copa

Start at: 2018-01-16 17:16:37

End at: 2018-01-16 17:17:07

```
# Below is generated by plot.py at 2018-01-16 21:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.27 Mbit/s
95th percentile per-packet one-way delay: 50.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.27 Mbit/s
95th percentile per-packet one-way delay: 50.727 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link



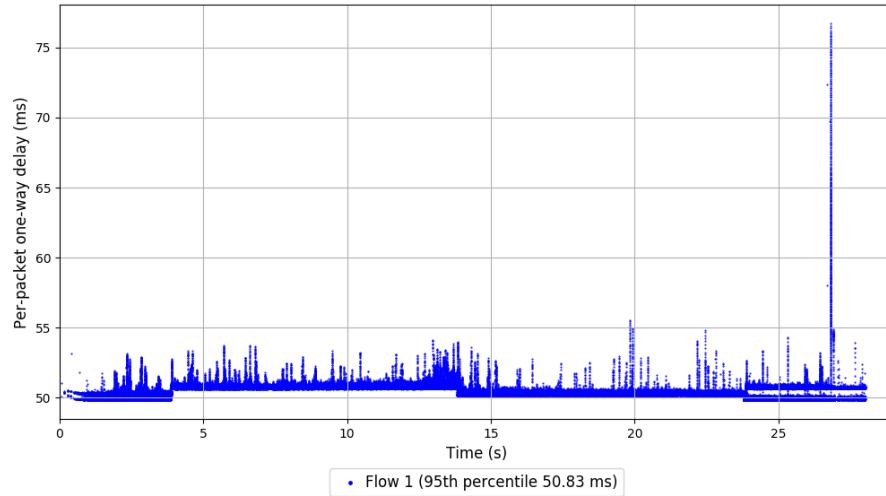
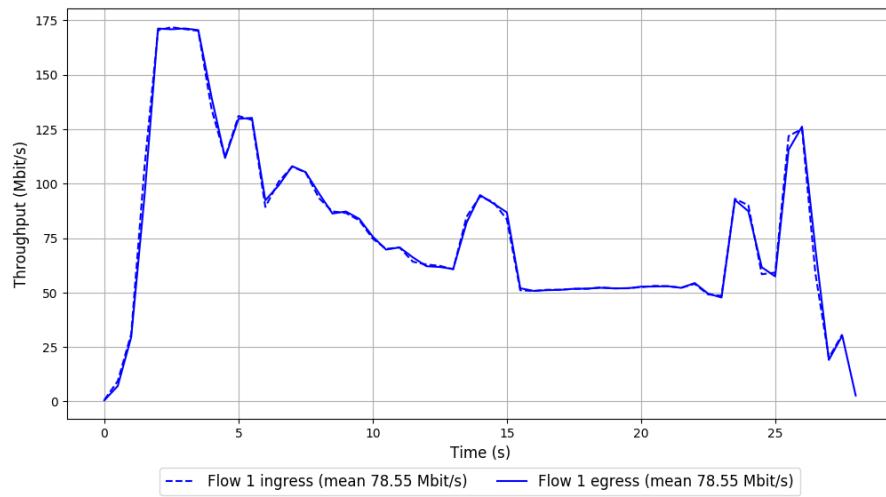
Run 3: Statistics of Copa

Start at: 2018-01-16 17:30:49

End at: 2018-01-16 17:31:19

```
# Below is generated by plot.py at 2018-01-16 21:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 50.832 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 50.832 ms
Loss rate: 0.00%
```

### Run 3: Report of Copa — Data Link



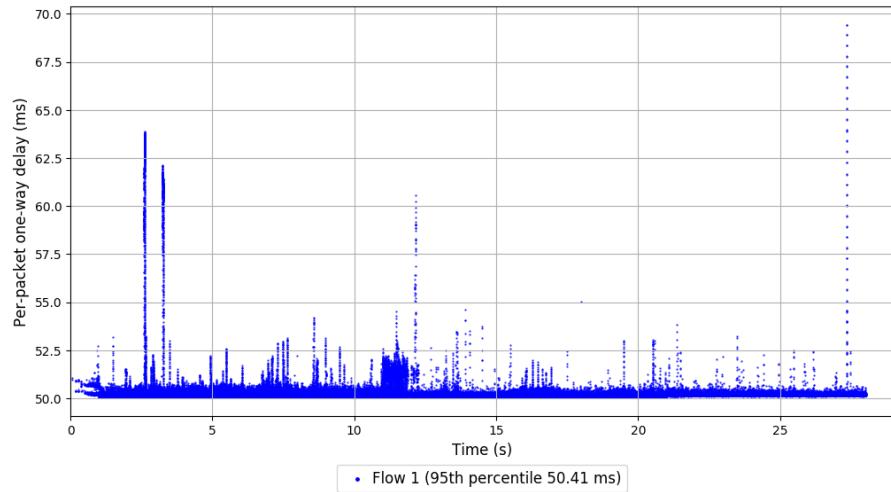
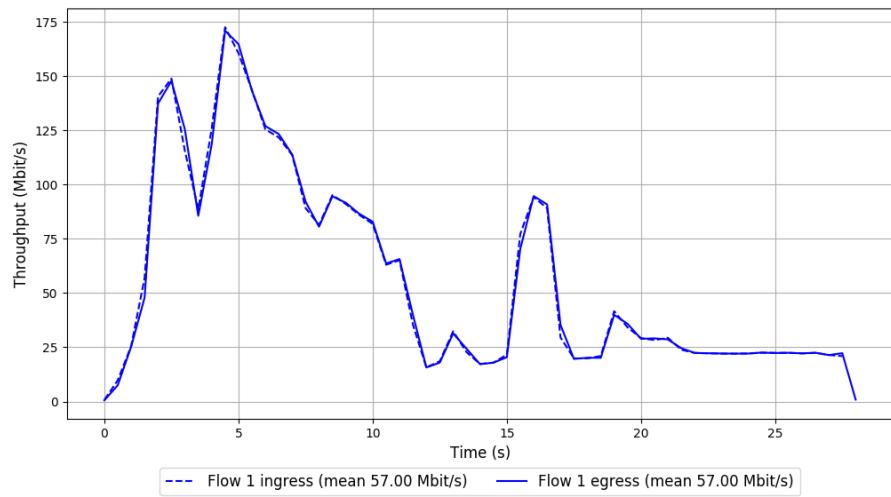
Run 4: Statistics of Copa

Start at: 2018-01-16 17:45:01

End at: 2018-01-16 17:45:31

```
# Below is generated by plot.py at 2018-01-16 21:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.00 Mbit/s
95th percentile per-packet one-way delay: 50.410 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.00 Mbit/s
95th percentile per-packet one-way delay: 50.410 ms
Loss rate: 0.00%
```

Run 4: Report of Copa — Data Link



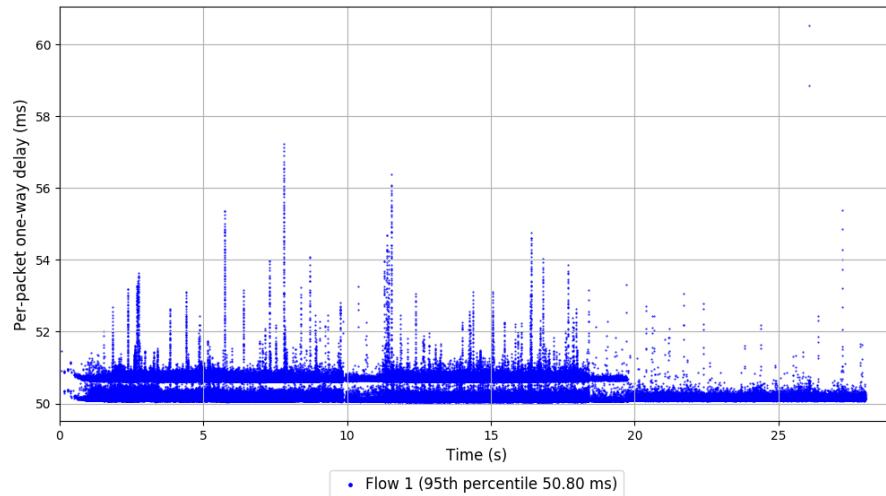
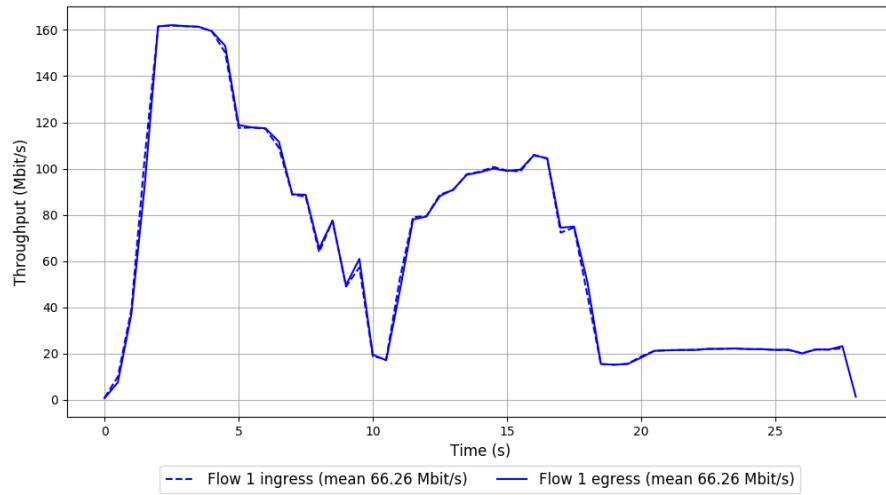
Run 5: Statistics of Copa

Start at: 2018-01-16 17:59:03

End at: 2018-01-16 17:59:33

```
# Below is generated by plot.py at 2018-01-16 21:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.26 Mbit/s
95th percentile per-packet one-way delay: 50.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 66.26 Mbit/s
95th percentile per-packet one-way delay: 50.804 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link



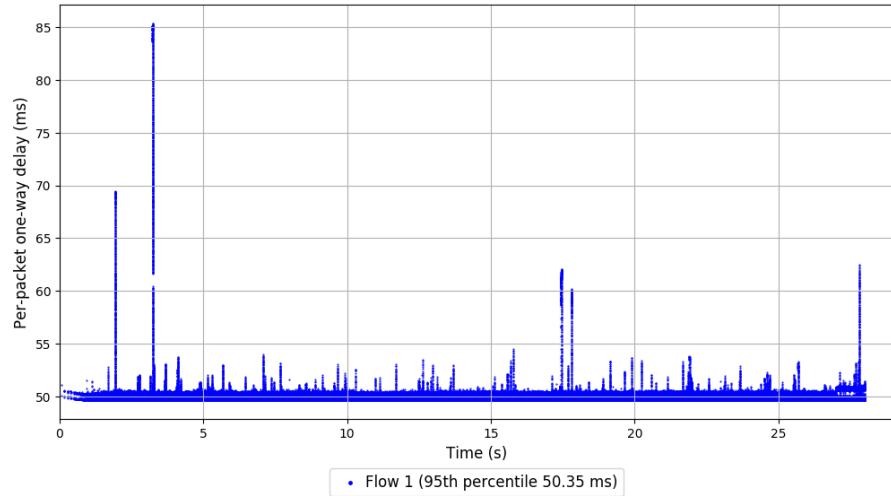
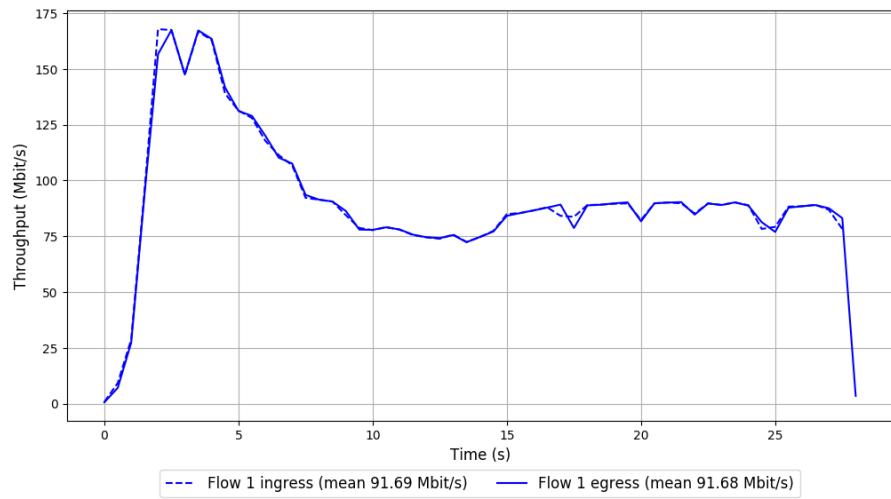
Run 6: Statistics of Copa

Start at: 2018-01-16 18:12:45

End at: 2018-01-16 18:13:15

```
# Below is generated by plot.py at 2018-01-16 21:36:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 50.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 50.354 ms
Loss rate: 0.00%
```

Run 6: Report of Copa — Data Link



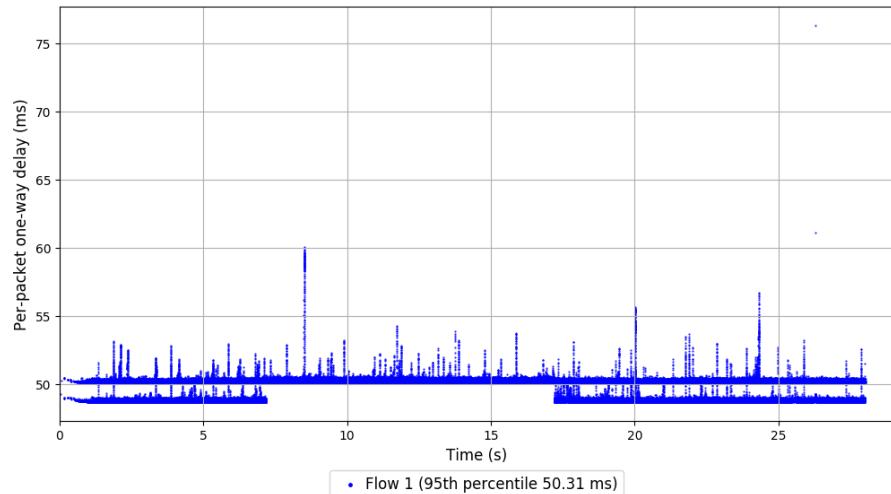
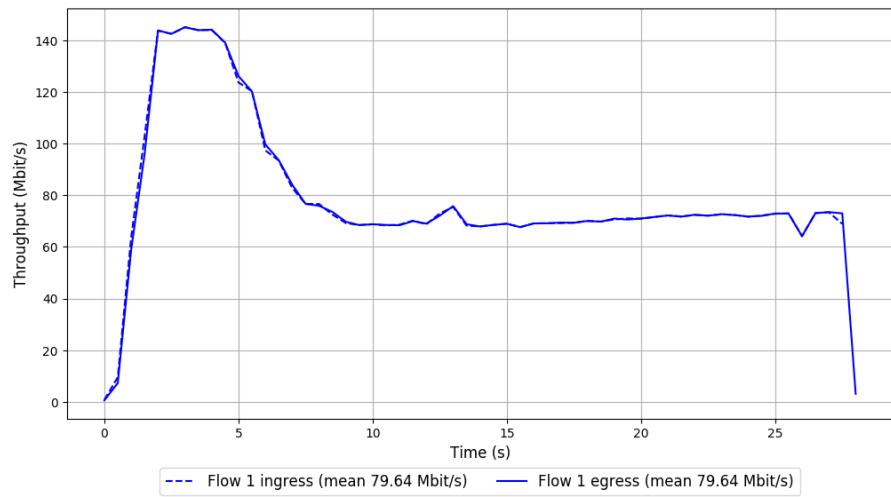
Run 7: Statistics of Copa

Start at: 2018-01-16 18:26:55

End at: 2018-01-16 18:27:25

```
# Below is generated by plot.py at 2018-01-16 21:36:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.64 Mbit/s
95th percentile per-packet one-way delay: 50.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.64 Mbit/s
95th percentile per-packet one-way delay: 50.310 ms
Loss rate: 0.00%
```

### Run 7: Report of Copa — Data Link



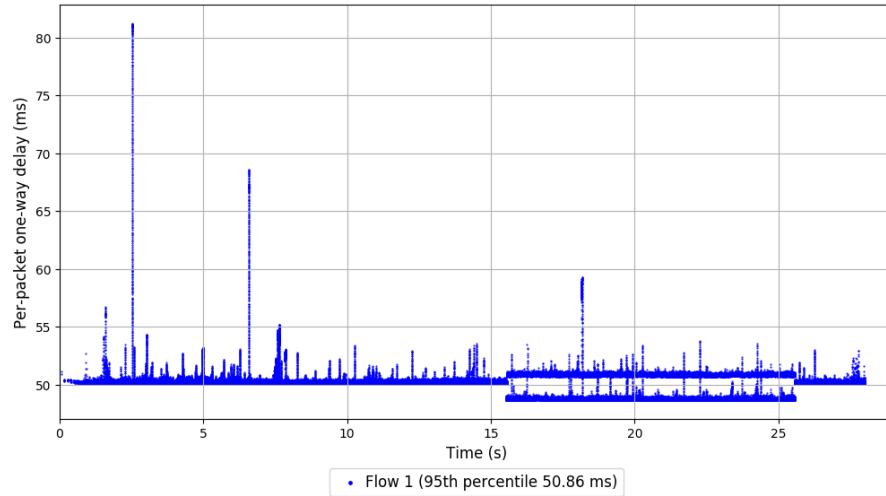
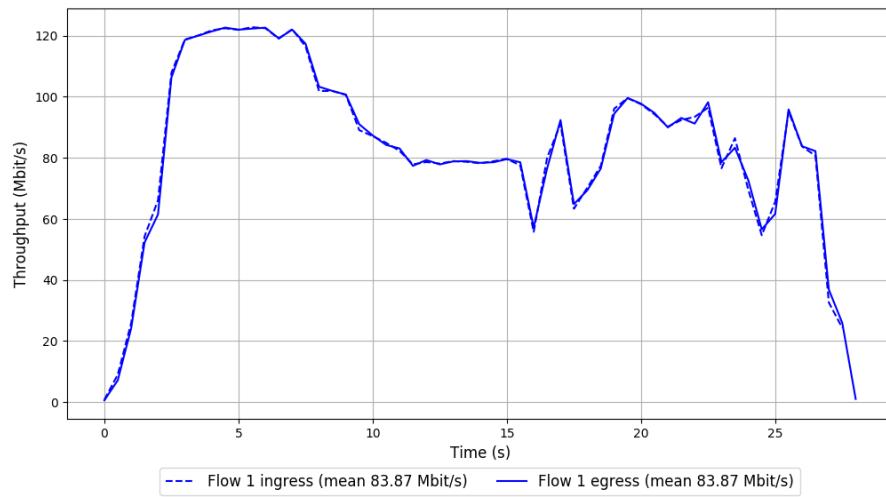
Run 8: Statistics of Copa

Start at: 2018-01-16 18:40:47

End at: 2018-01-16 18:41:17

```
# Below is generated by plot.py at 2018-01-16 21:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 50.859 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 50.859 ms
Loss rate: 0.00%
```

Run 8: Report of Copa — Data Link



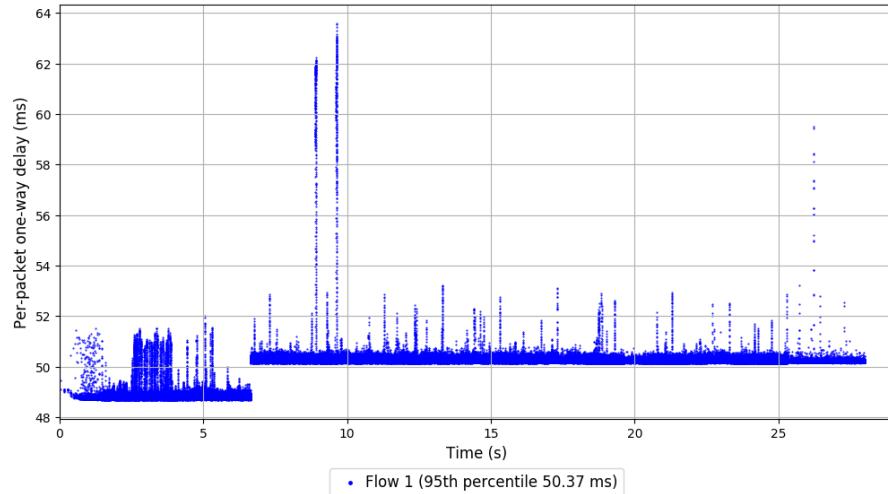
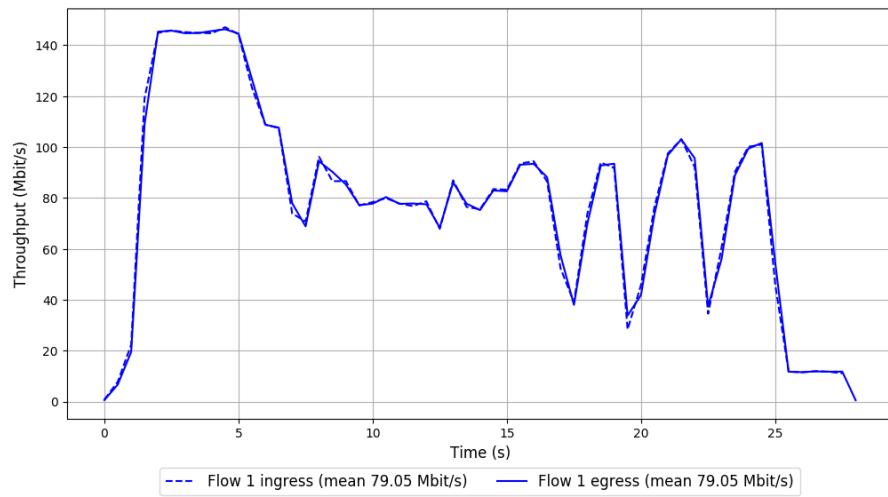
Run 9: Statistics of Copa

Start at: 2018-01-16 18:54:56

End at: 2018-01-16 18:55:26

```
# Below is generated by plot.py at 2018-01-16 21:36:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.05 Mbit/s
95th percentile per-packet one-way delay: 50.371 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.05 Mbit/s
95th percentile per-packet one-way delay: 50.371 ms
Loss rate: 0.00%
```

Run 9: Report of Copa — Data Link



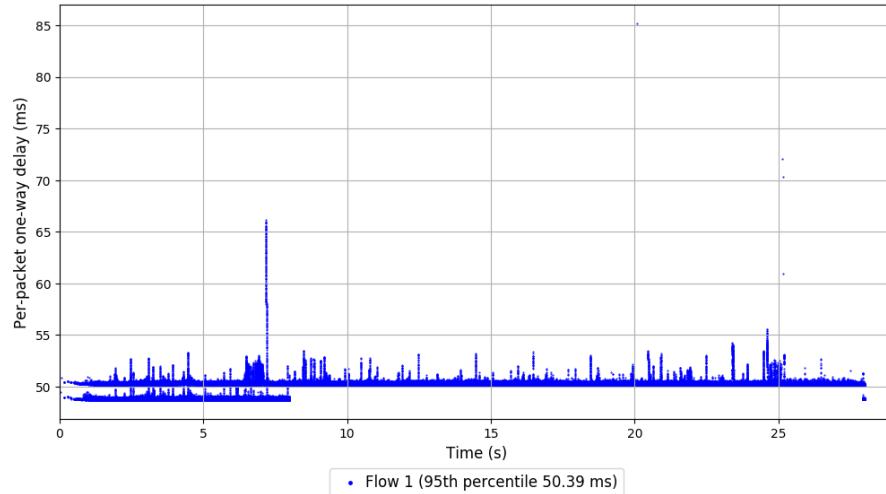
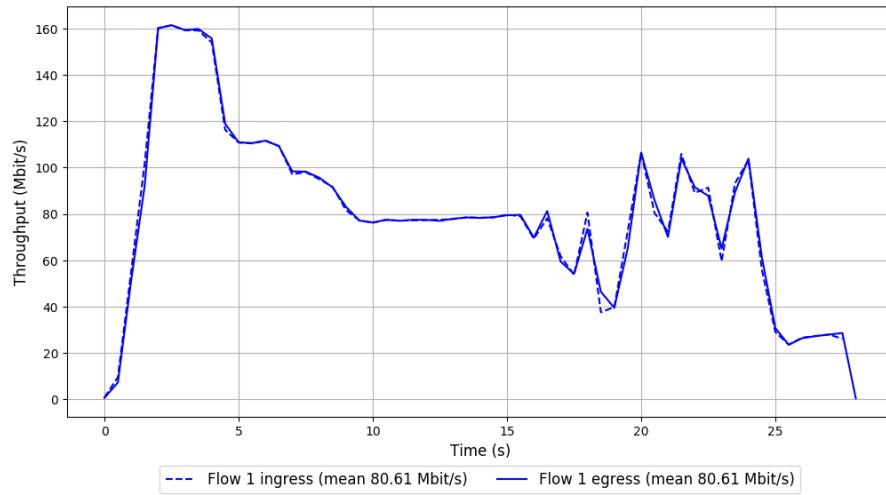
Run 10: Statistics of Copa

Start at: 2018-01-16 19:09:04

End at: 2018-01-16 19:09:34

```
# Below is generated by plot.py at 2018-01-16 21:37:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.61 Mbit/s
95th percentile per-packet one-way delay: 50.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 80.61 Mbit/s
95th percentile per-packet one-way delay: 50.394 ms
Loss rate: 0.00%
```

Run 10: Report of Copa — Data Link



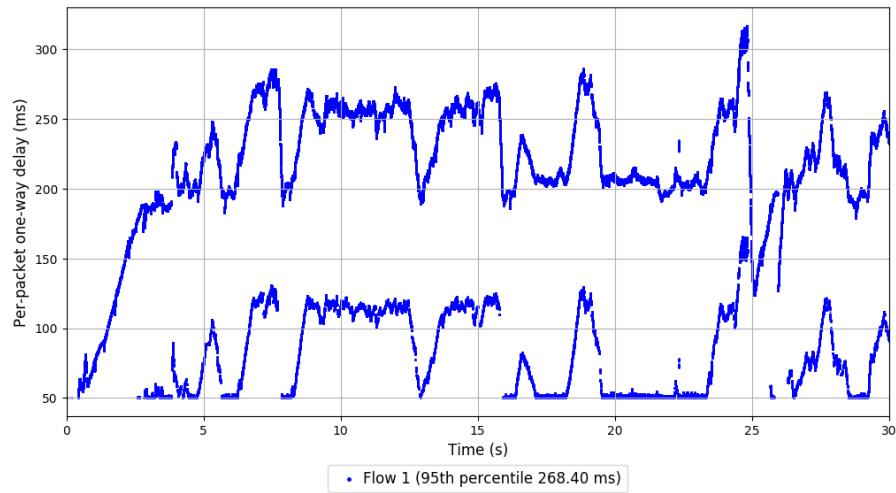
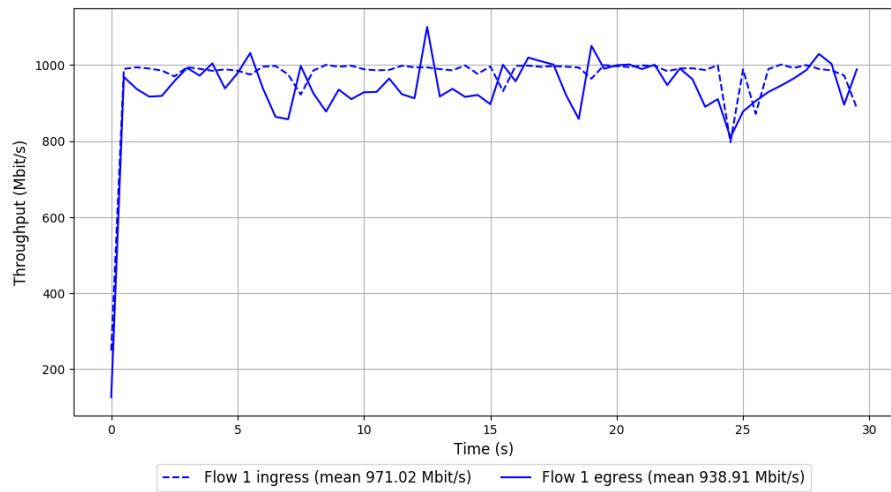
Run 1: Statistics of FillP

Start at: 2018-01-16 17:06:32

End at: 2018-01-16 17:07:02

```
# Below is generated by plot.py at 2018-01-16 21:52:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 938.91 Mbit/s
95th percentile per-packet one-way delay: 268.396 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 938.91 Mbit/s
95th percentile per-packet one-way delay: 268.396 ms
Loss rate: 3.30%
```

Run 1: Report of FillP — Data Link



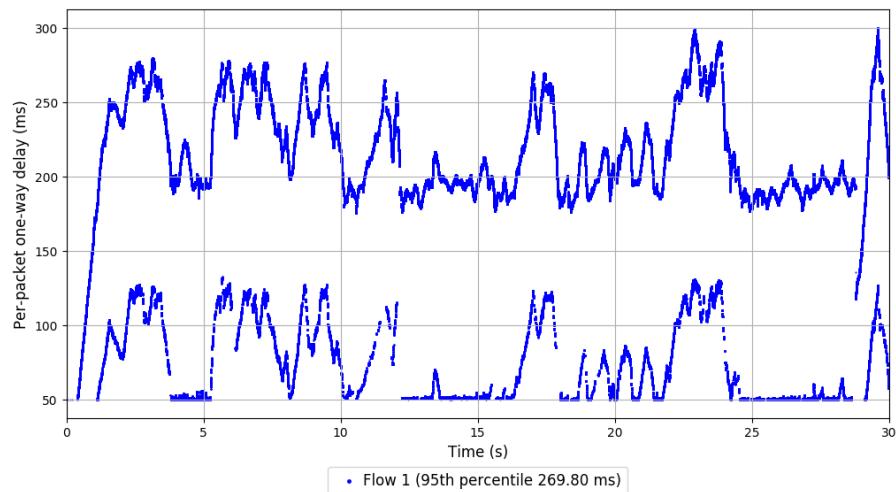
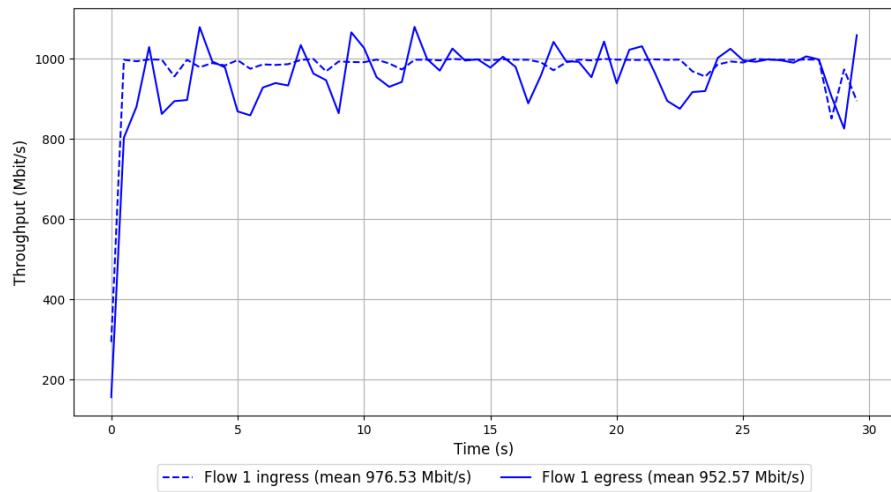
Run 2: Statistics of FillP

Start at: 2018-01-16 17:20:56

End at: 2018-01-16 17:21:26

```
# Below is generated by plot.py at 2018-01-16 21:53:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 952.57 Mbit/s
95th percentile per-packet one-way delay: 269.803 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 952.57 Mbit/s
95th percentile per-packet one-way delay: 269.803 ms
Loss rate: 2.45%
```

Run 2: Report of FillP — Data Link



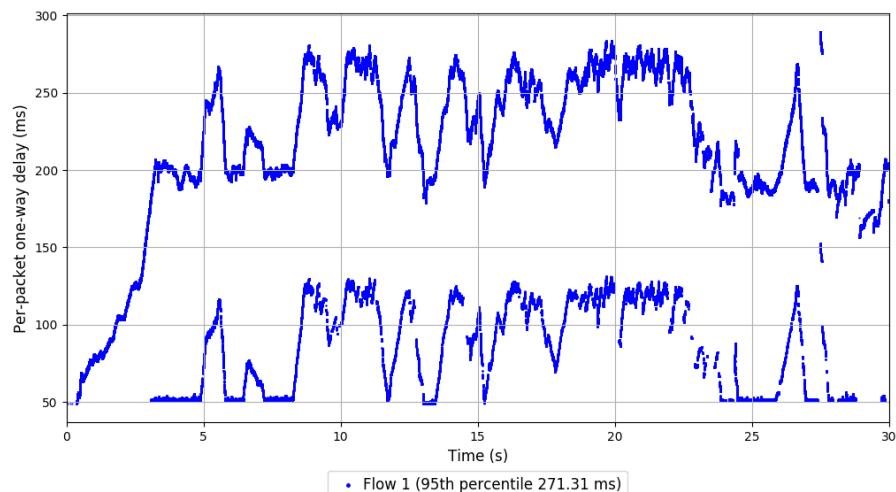
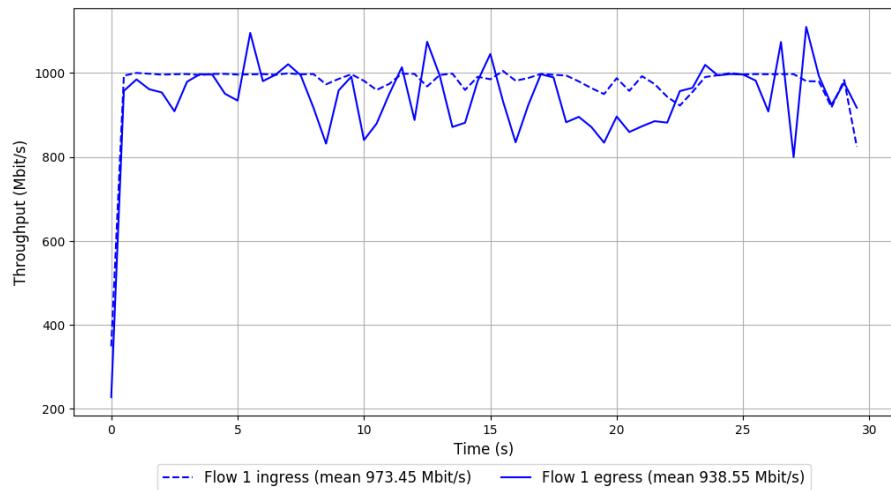
Run 3: Statistics of FillP

Start at: 2018-01-16 17:35:12

End at: 2018-01-16 17:35:42

```
# Below is generated by plot.py at 2018-01-16 21:53:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 938.55 Mbit/s
95th percentile per-packet one-way delay: 271.315 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 938.55 Mbit/s
95th percentile per-packet one-way delay: 271.315 ms
Loss rate: 3.58%
```

Run 3: Report of FillP — Data Link



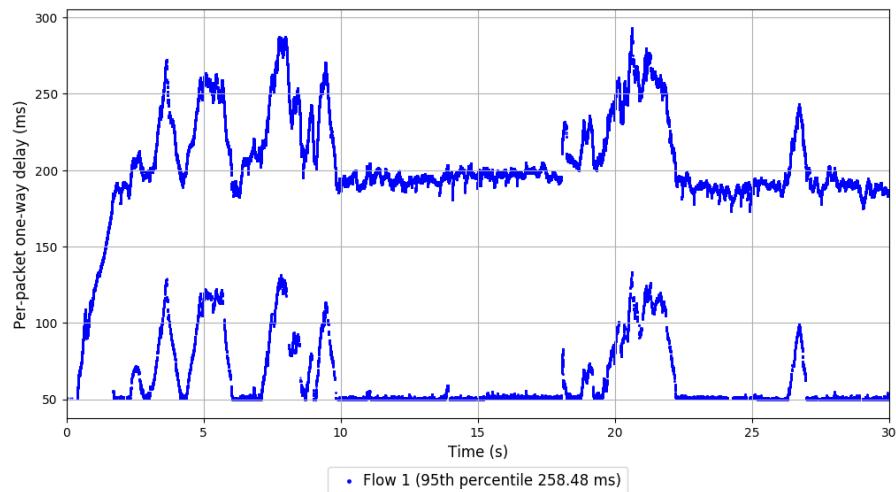
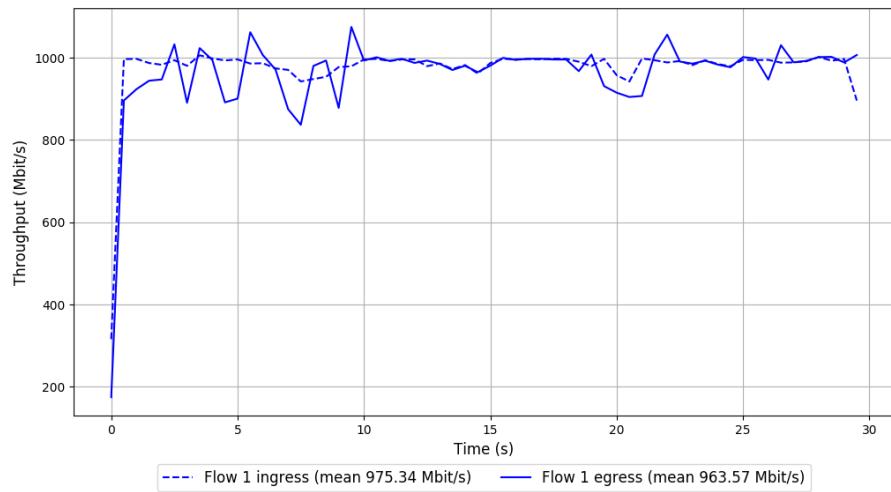
Run 4: Statistics of FillP

Start at: 2018-01-16 17:49:09

End at: 2018-01-16 17:49:39

```
# Below is generated by plot.py at 2018-01-16 21:53:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 963.57 Mbit/s
95th percentile per-packet one-way delay: 258.475 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 963.57 Mbit/s
95th percentile per-packet one-way delay: 258.475 ms
Loss rate: 1.21%
```

Run 4: Report of FillP — Data Link



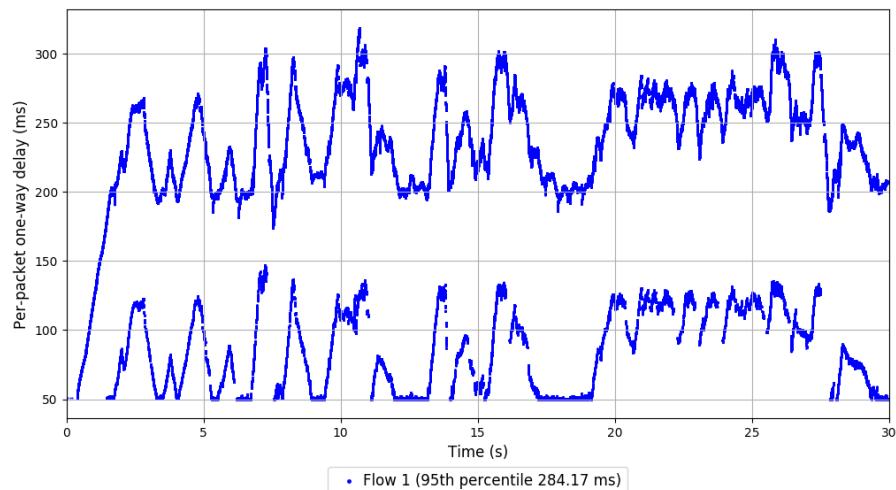
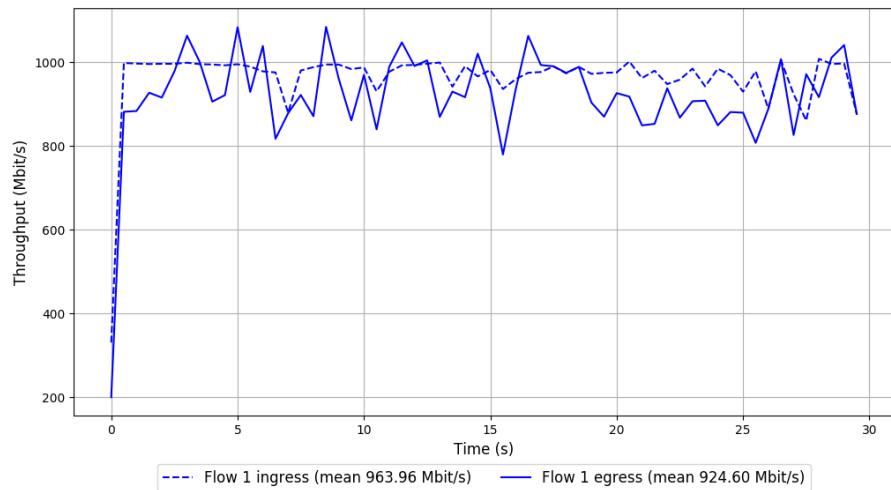
Run 5: Statistics of FillP

Start at: 2018-01-16 18:03:10

End at: 2018-01-16 18:03:40

```
# Below is generated by plot.py at 2018-01-16 21:53:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 924.60 Mbit/s
95th percentile per-packet one-way delay: 284.168 ms
Loss rate: 4.28%
-- Flow 1:
Average throughput: 924.60 Mbit/s
95th percentile per-packet one-way delay: 284.168 ms
Loss rate: 4.28%
```

Run 5: Report of FillP — Data Link



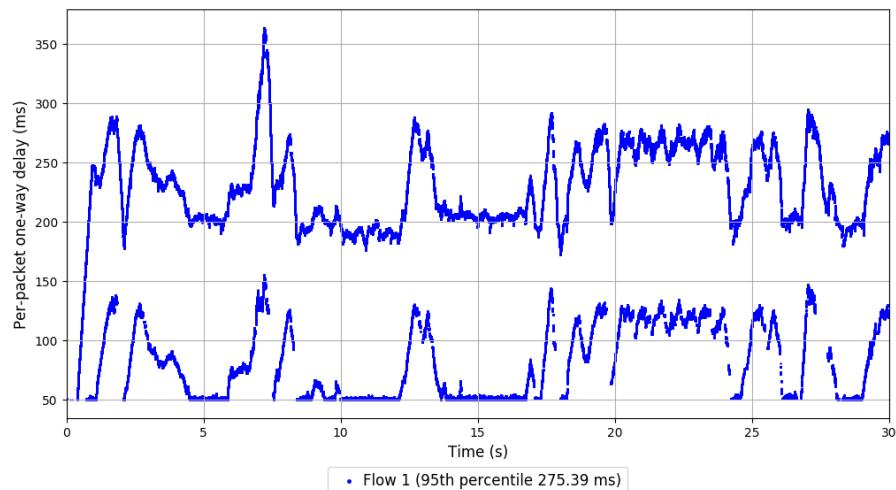
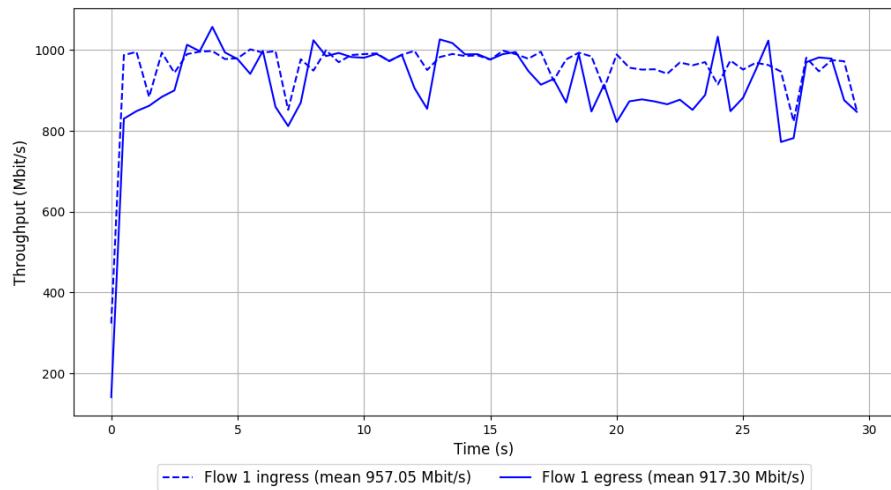
Run 6: Statistics of FillP

Start at: 2018-01-16 18:17:08

End at: 2018-01-16 18:17:38

```
# Below is generated by plot.py at 2018-01-16 21:53:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 917.30 Mbit/s
95th percentile per-packet one-way delay: 275.392 ms
Loss rate: 4.15%
-- Flow 1:
Average throughput: 917.30 Mbit/s
95th percentile per-packet one-way delay: 275.392 ms
Loss rate: 4.15%
```

Run 6: Report of FillP — Data Link



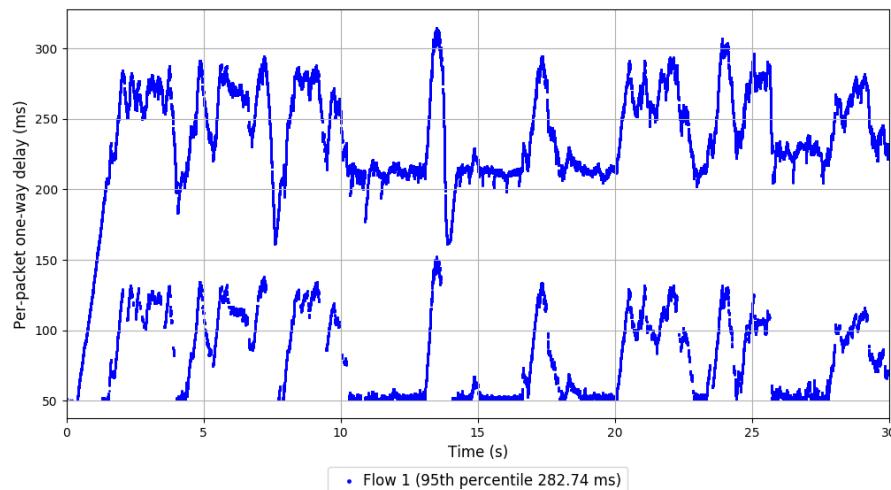
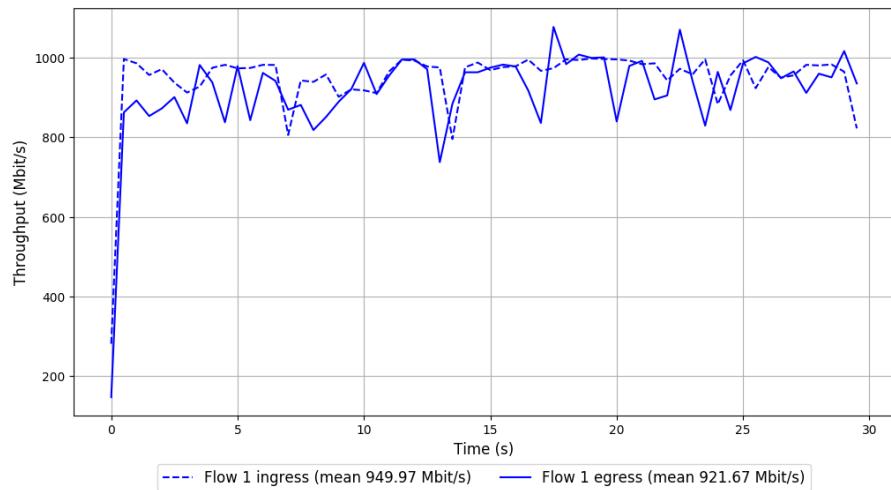
Run 7: Statistics of FillP

Start at: 2018-01-16 18:31:05

End at: 2018-01-16 18:31:35

```
# Below is generated by plot.py at 2018-01-16 21:53:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 921.67 Mbit/s
95th percentile per-packet one-way delay: 282.744 ms
Loss rate: 2.98%
-- Flow 1:
Average throughput: 921.67 Mbit/s
95th percentile per-packet one-way delay: 282.744 ms
Loss rate: 2.98%
```

Run 7: Report of FillP — Data Link



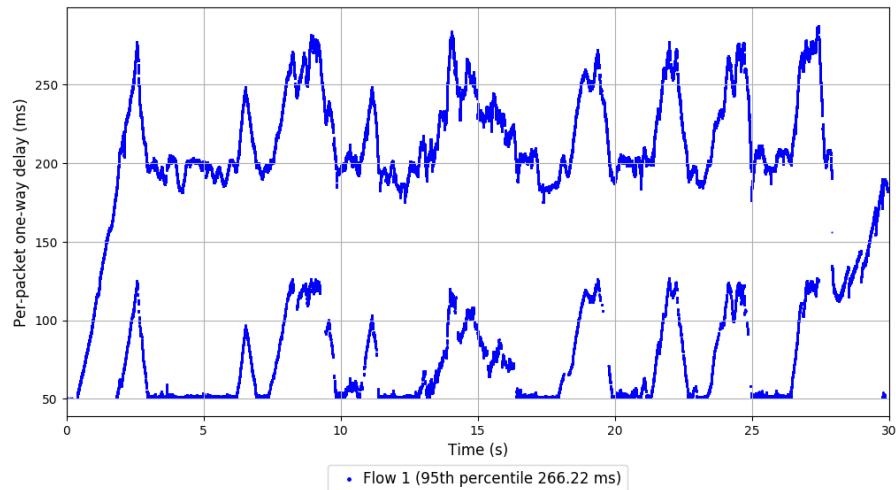
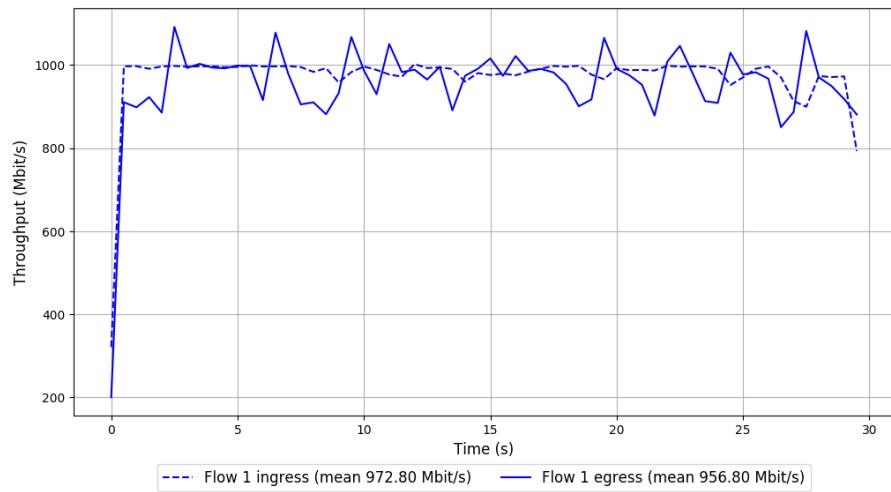
Run 8: Statistics of FillP

Start at: 2018-01-16 18:44:53

End at: 2018-01-16 18:45:23

```
# Below is generated by plot.py at 2018-01-16 21:54:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 956.80 Mbit/s
95th percentile per-packet one-way delay: 266.217 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 956.80 Mbit/s
95th percentile per-packet one-way delay: 266.217 ms
Loss rate: 1.63%
```

Run 8: Report of FillP — Data Link



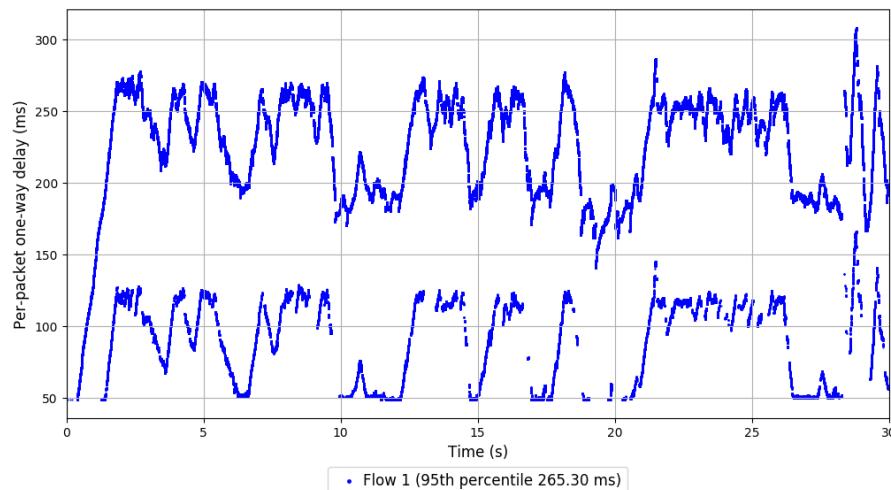
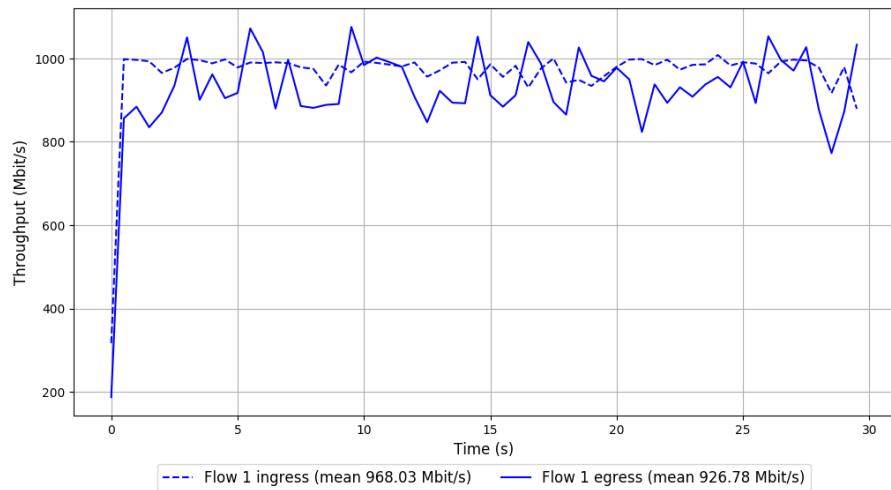
Run 9: Statistics of FillP

Start at: 2018-01-16 18:59:12

End at: 2018-01-16 18:59:42

```
# Below is generated by plot.py at 2018-01-16 22:10:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 926.78 Mbit/s
95th percentile per-packet one-way delay: 265.303 ms
Loss rate: 4.26%
-- Flow 1:
Average throughput: 926.78 Mbit/s
95th percentile per-packet one-way delay: 265.303 ms
Loss rate: 4.26%
```

Run 9: Report of FillP — Data Link



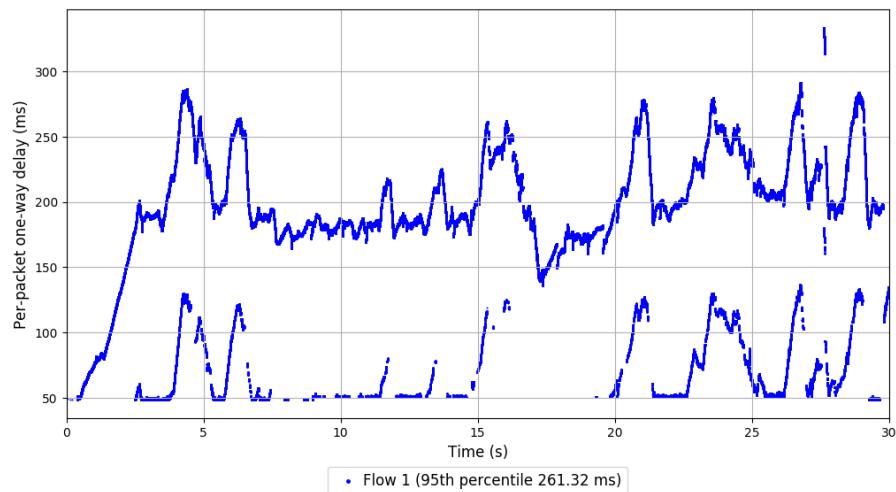
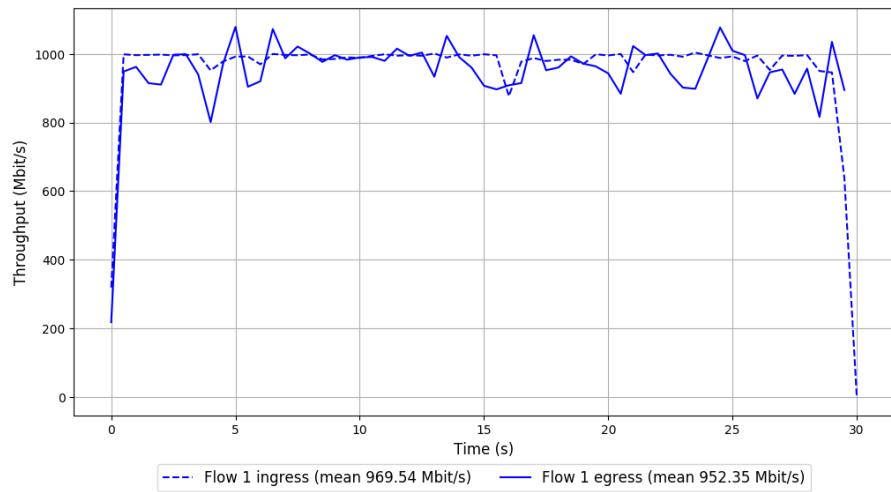
Run 10: Statistics of FillP

Start at: 2018-01-16 19:13:25

End at: 2018-01-16 19:13:55

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 952.35 Mbit/s
95th percentile per-packet one-way delay: 261.322 ms
Loss rate: 1.95%
-- Flow 1:
Average throughput: 952.35 Mbit/s
95th percentile per-packet one-way delay: 261.322 ms
Loss rate: 1.95%
```

Run 10: Report of FillP — Data Link



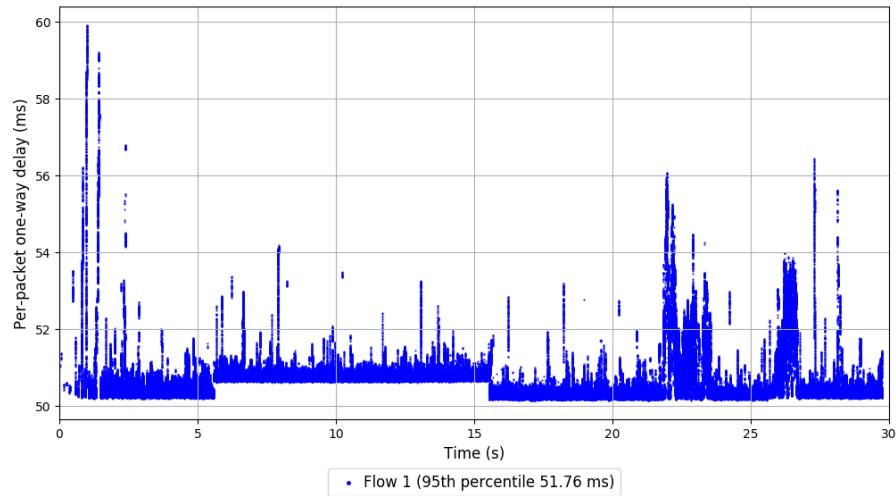
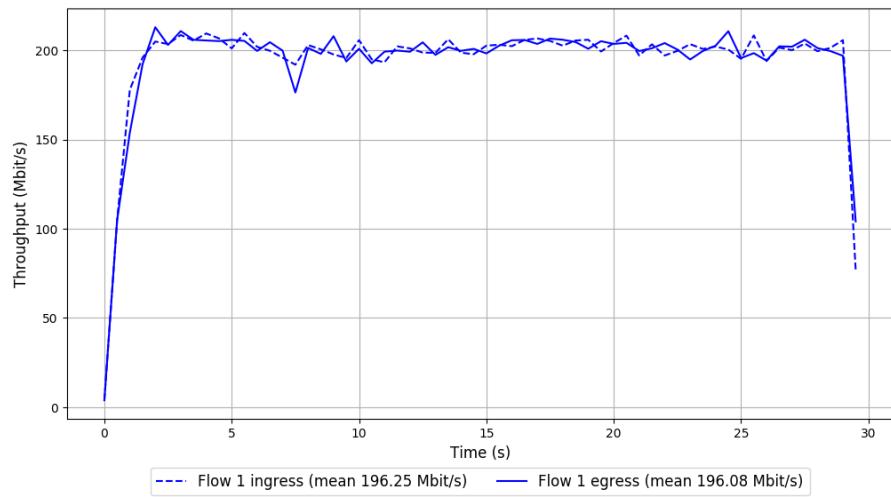
Run 1: Statistics of Indigo

Start at: 2018-01-16 17:09:48

End at: 2018-01-16 17:10:18

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.08 Mbit/s
95th percentile per-packet one-way delay: 51.756 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 196.08 Mbit/s
95th percentile per-packet one-way delay: 51.756 ms
Loss rate: 0.09%
```

Run 1: Report of Indigo — Data Link



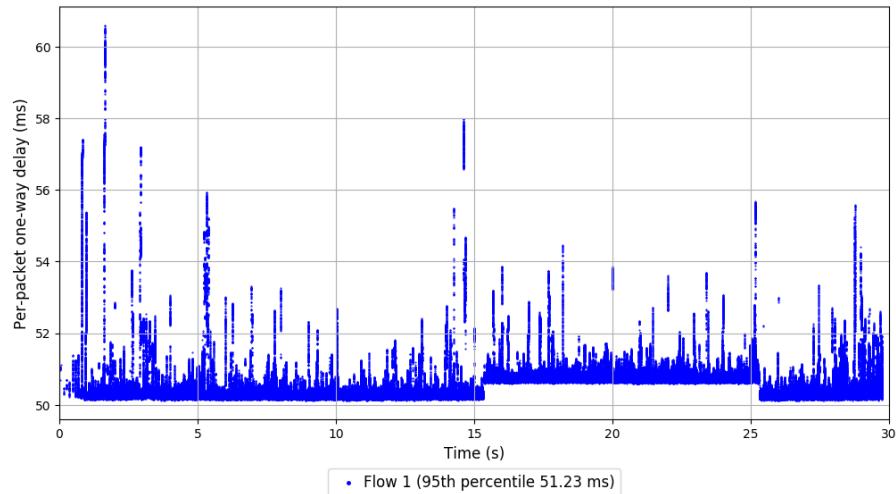
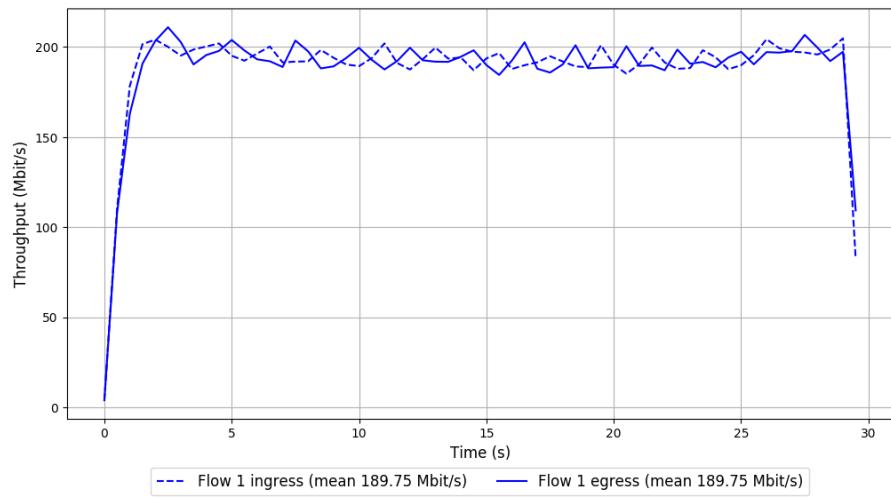
Run 2: Statistics of Indigo

Start at: 2018-01-16 17:24:09

End at: 2018-01-16 17:24:39

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.75 Mbit/s
95th percentile per-packet one-way delay: 51.233 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.75 Mbit/s
95th percentile per-packet one-way delay: 51.233 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



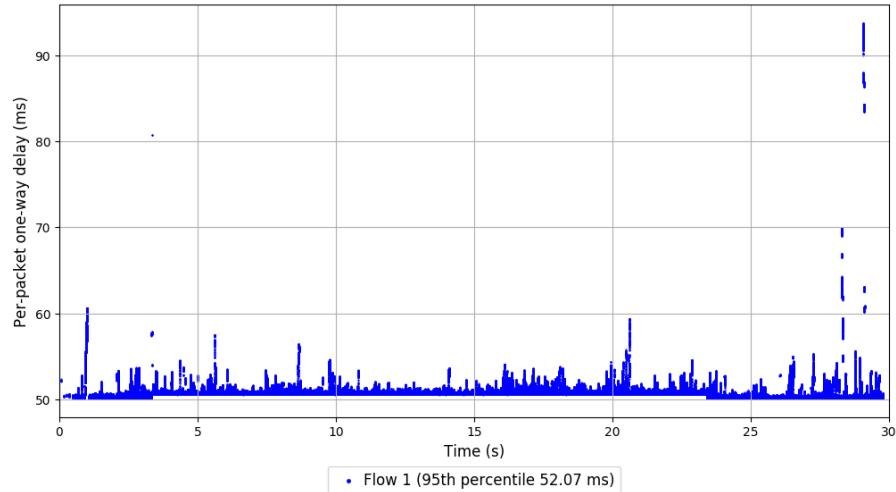
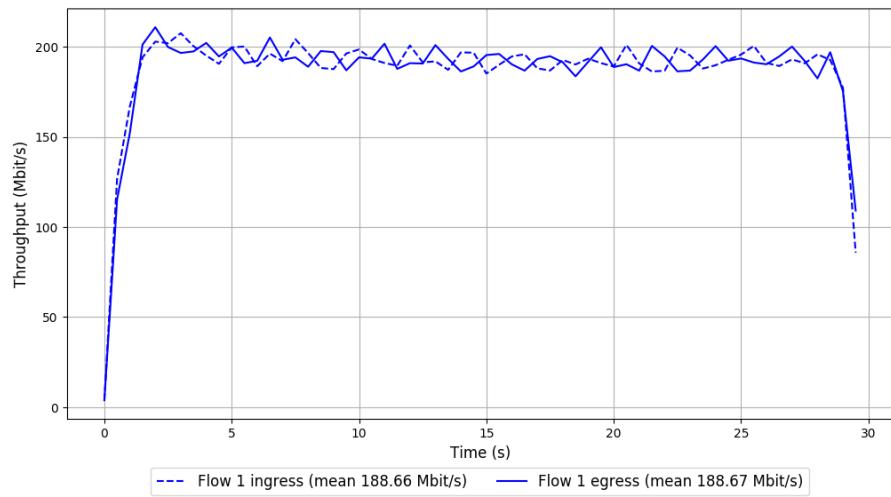
Run 3: Statistics of Indigo

Start at: 2018-01-16 17:38:21

End at: 2018-01-16 17:38:51

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.67 Mbit/s
95th percentile per-packet one-way delay: 52.073 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.67 Mbit/s
95th percentile per-packet one-way delay: 52.073 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo — Data Link



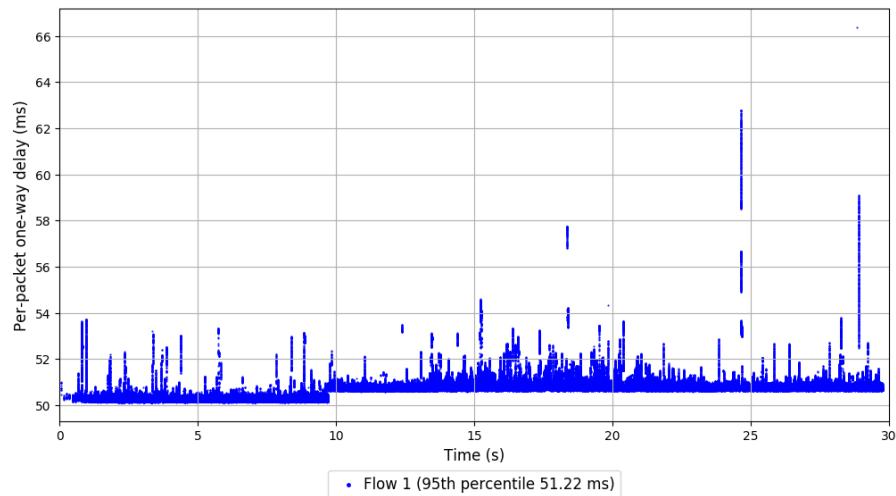
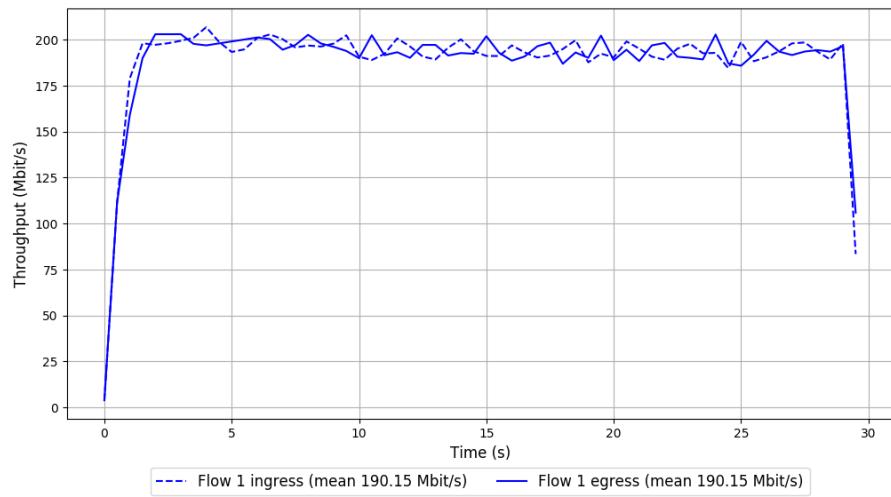
Run 4: Statistics of Indigo

Start at: 2018-01-16 17:52:24

End at: 2018-01-16 17:52:54

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.15 Mbit/s
95th percentile per-packet one-way delay: 51.224 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.15 Mbit/s
95th percentile per-packet one-way delay: 51.224 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo — Data Link



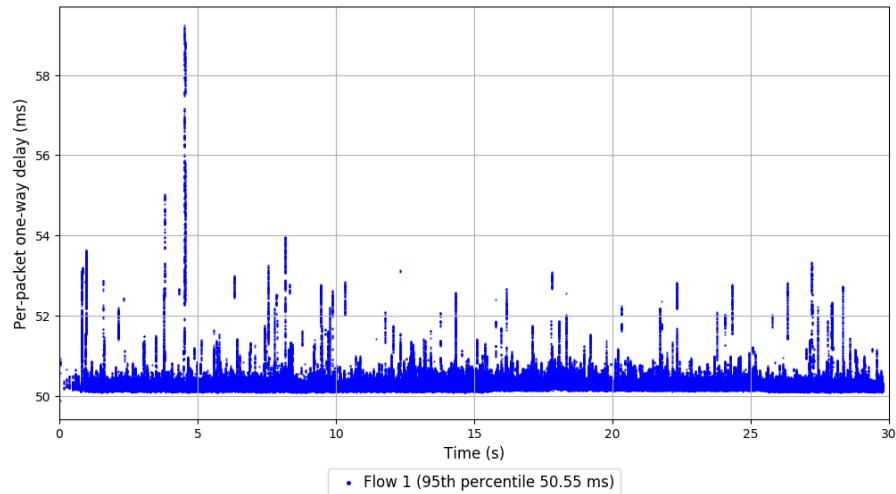
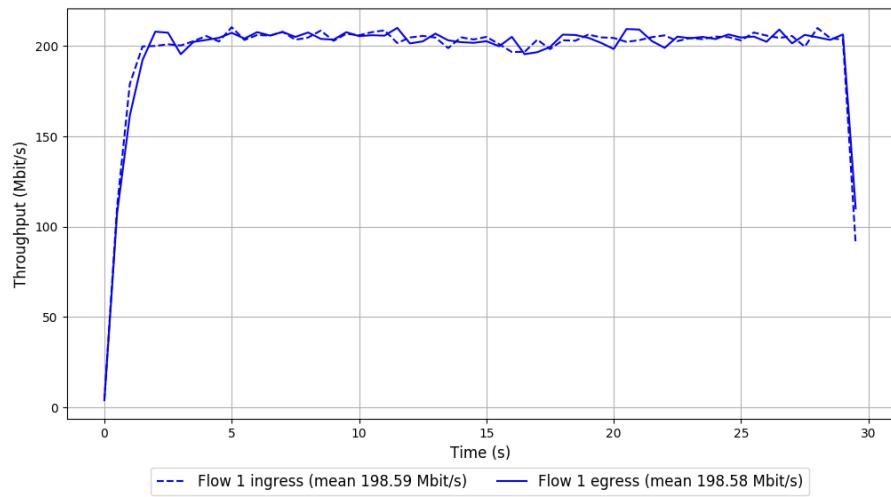
Run 5: Statistics of Indigo

Start at: 2018-01-16 18:06:08

End at: 2018-01-16 18:06:38

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.58 Mbit/s
95th percentile per-packet one-way delay: 50.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.58 Mbit/s
95th percentile per-packet one-way delay: 50.554 ms
Loss rate: 0.00%
```

Run 5: Report of Indigo — Data Link



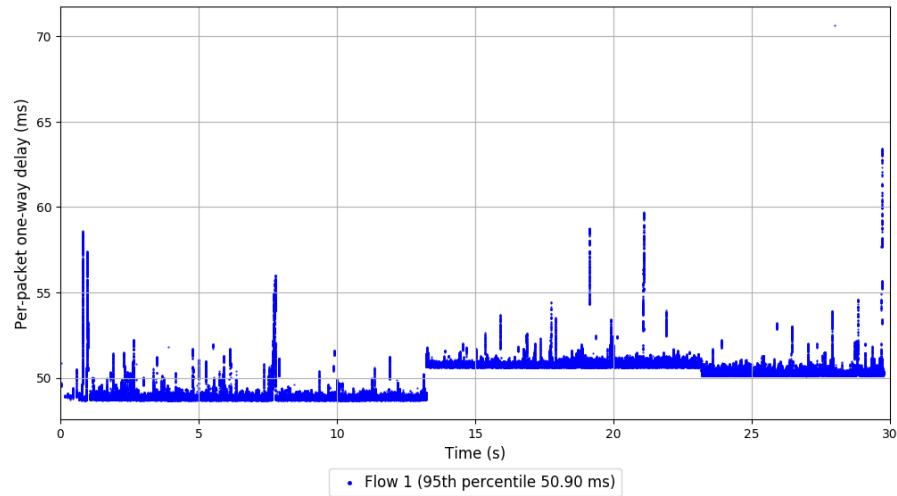
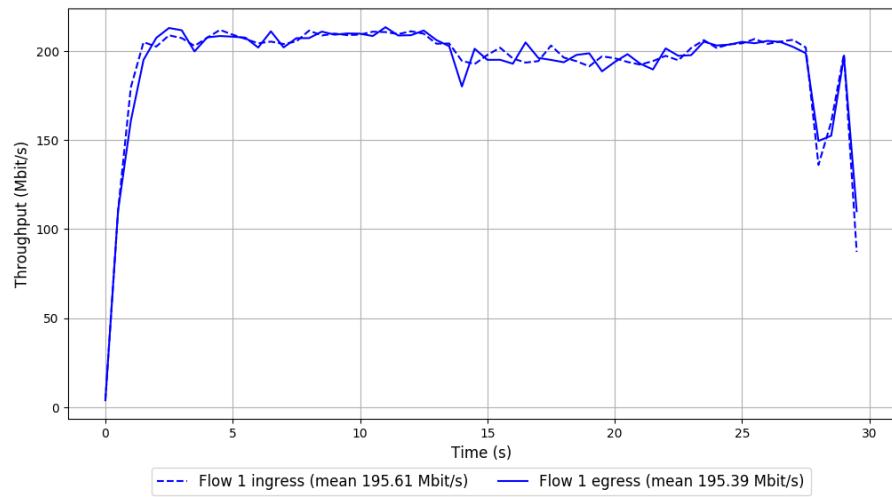
Run 6: Statistics of Indigo

Start at: 2018-01-16 18:20:11

End at: 2018-01-16 18:20:41

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.39 Mbit/s
95th percentile per-packet one-way delay: 50.902 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 195.39 Mbit/s
95th percentile per-packet one-way delay: 50.902 ms
Loss rate: 0.11%
```

Run 6: Report of Indigo — Data Link



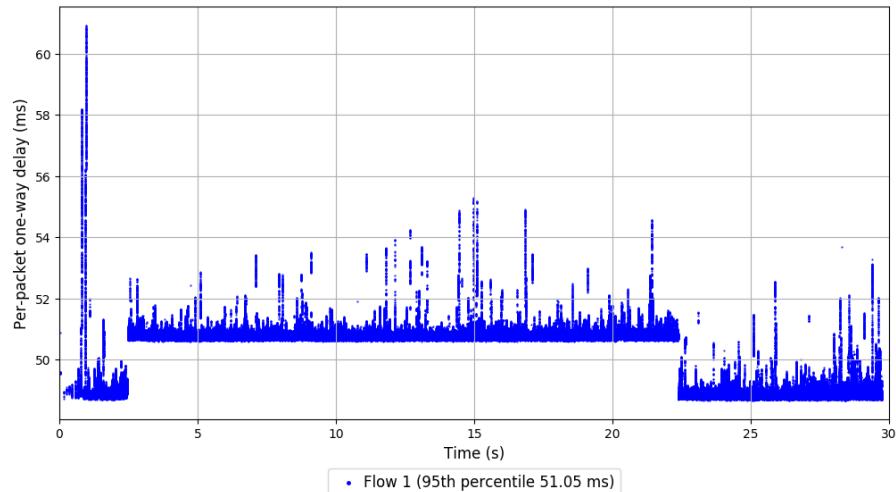
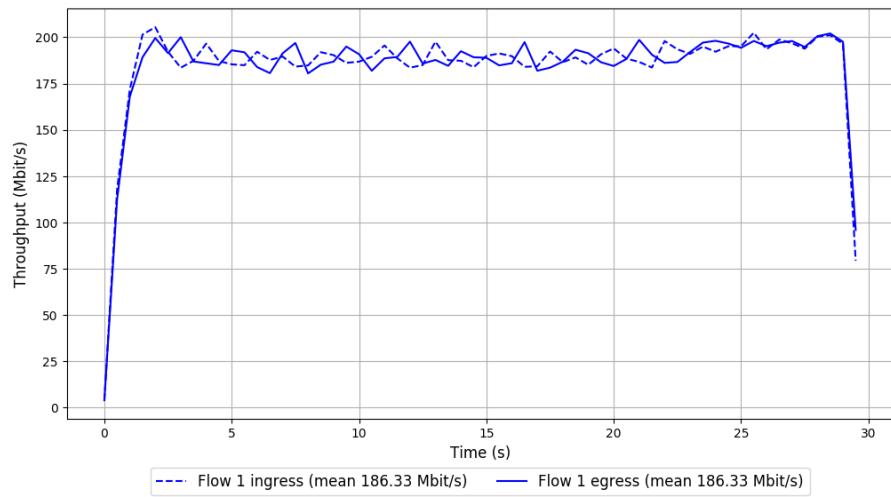
Run 7: Statistics of Indigo

Start at: 2018-01-16 18:34:12

End at: 2018-01-16 18:34:42

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.33 Mbit/s
95th percentile per-packet one-way delay: 51.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.33 Mbit/s
95th percentile per-packet one-way delay: 51.052 ms
Loss rate: 0.00%
```

Run 7: Report of Indigo — Data Link



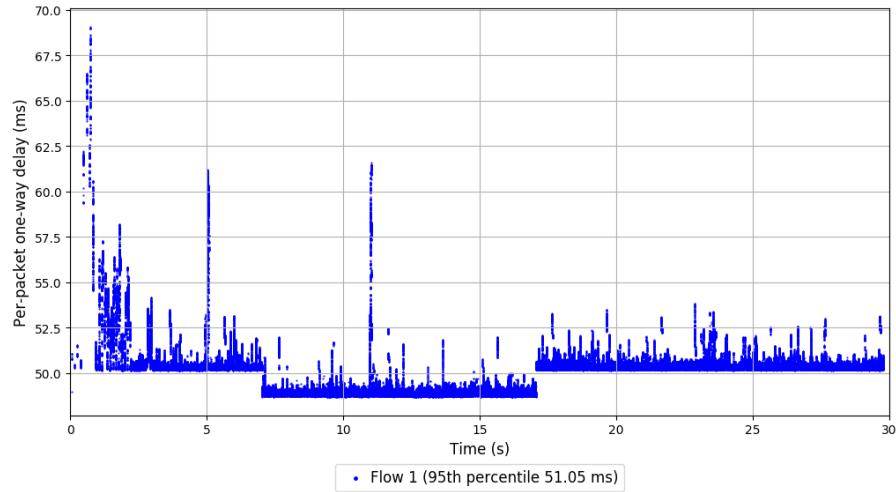
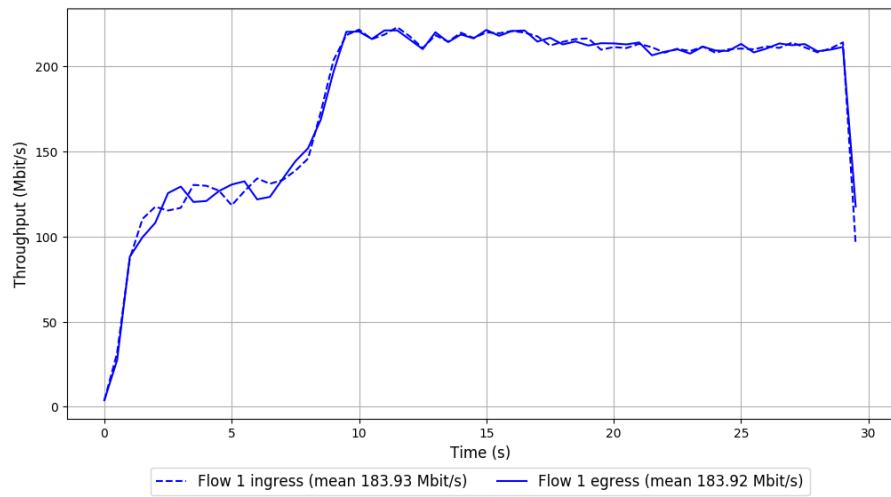
Run 8: Statistics of Indigo

Start at: 2018-01-16 18:47:57

End at: 2018-01-16 18:48:27

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.92 Mbit/s
95th percentile per-packet one-way delay: 51.045 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 183.92 Mbit/s
95th percentile per-packet one-way delay: 51.045 ms
Loss rate: 0.01%
```

Run 8: Report of Indigo — Data Link



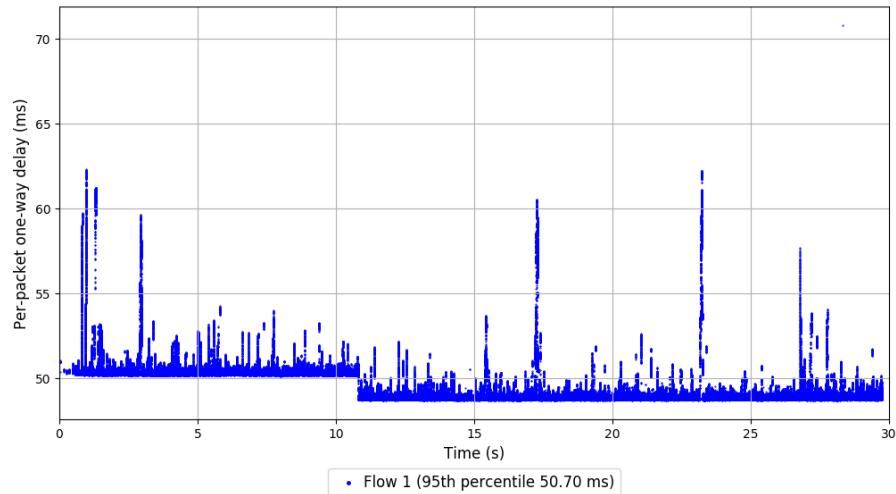
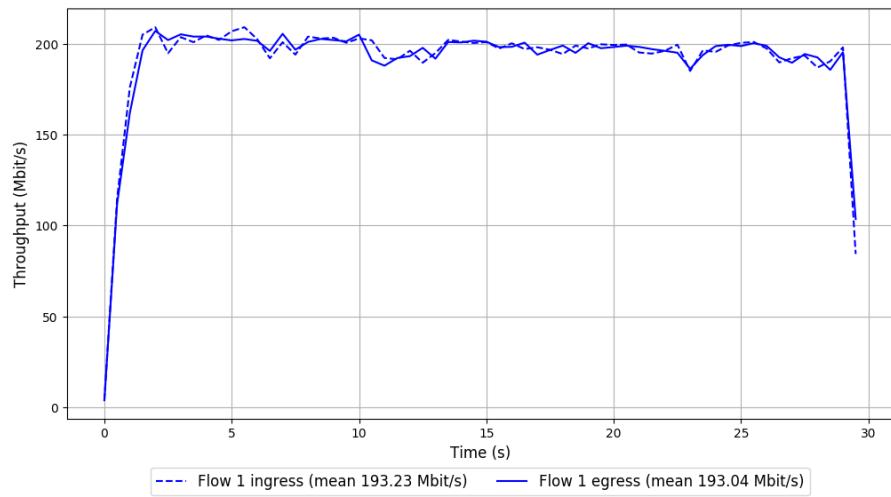
Run 9: Statistics of Indigo

Start at: 2018-01-16 19:02:13

End at: 2018-01-16 19:02:43

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.04 Mbit/s
95th percentile per-packet one-way delay: 50.705 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 193.04 Mbit/s
95th percentile per-packet one-way delay: 50.705 ms
Loss rate: 0.10%
```

Run 9: Report of Indigo — Data Link



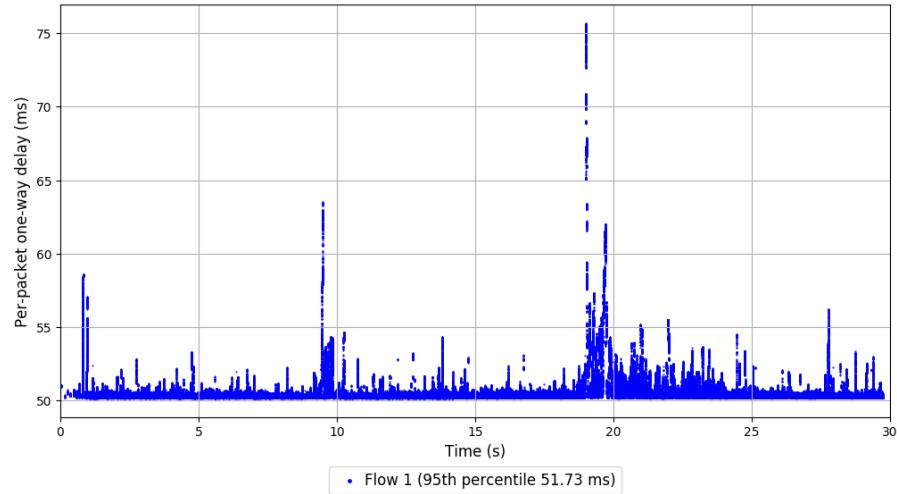
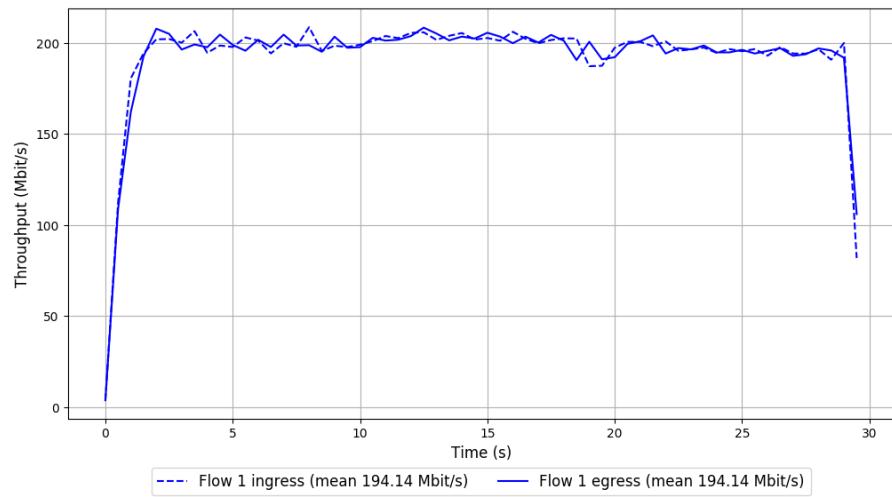
Run 10: Statistics of Indigo

Start at: 2018-01-16 19:16:30

End at: 2018-01-16 19:17:00

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.14 Mbit/s
95th percentile per-packet one-way delay: 51.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.14 Mbit/s
95th percentile per-packet one-way delay: 51.735 ms
Loss rate: 0.00%
```

Run 10: Report of Indigo — Data Link



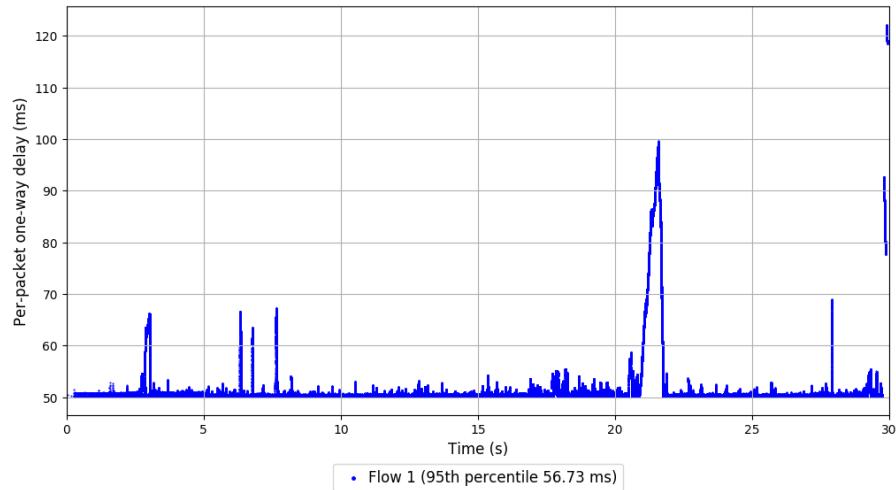
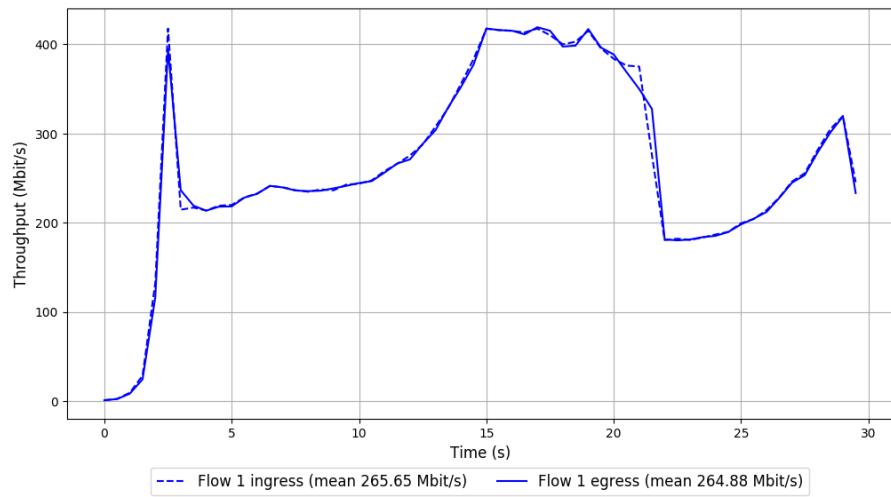
Run 1: Statistics of Vivace-latency

Start at: 2018-01-16 17:02:59

End at: 2018-01-16 17:03:29

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.88 Mbit/s
95th percentile per-packet one-way delay: 56.729 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 264.88 Mbit/s
95th percentile per-packet one-way delay: 56.729 ms
Loss rate: 0.29%
```

Run 1: Report of Vivace-latency — Data Link



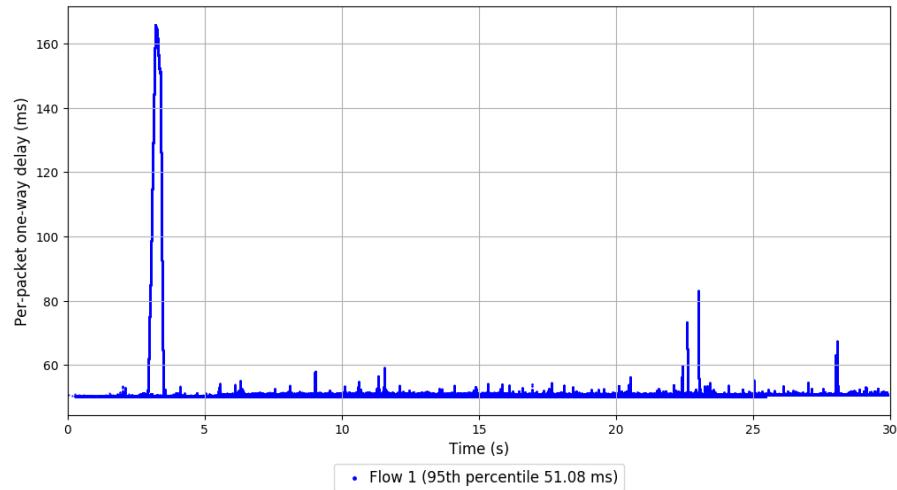
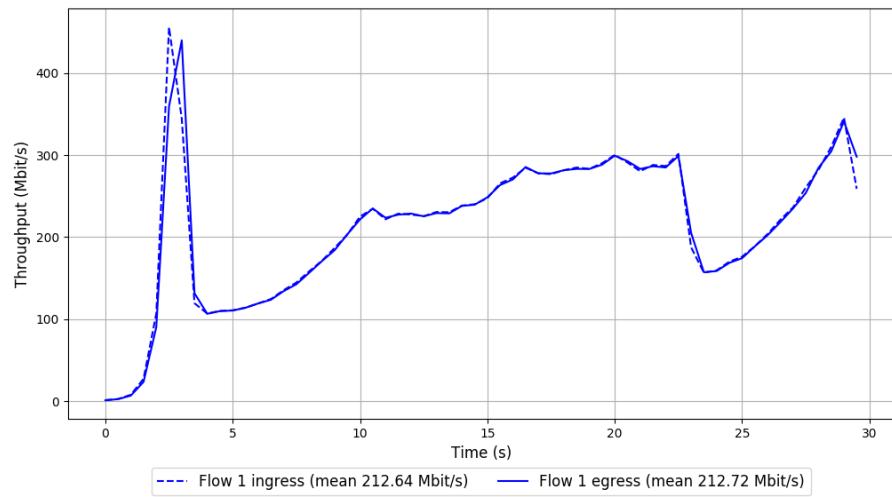
Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 17:17:19

End at: 2018-01-16 17:17:49

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 212.72 Mbit/s
95th percentile per-packet one-way delay: 51.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.72 Mbit/s
95th percentile per-packet one-way delay: 51.081 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-latency — Data Link



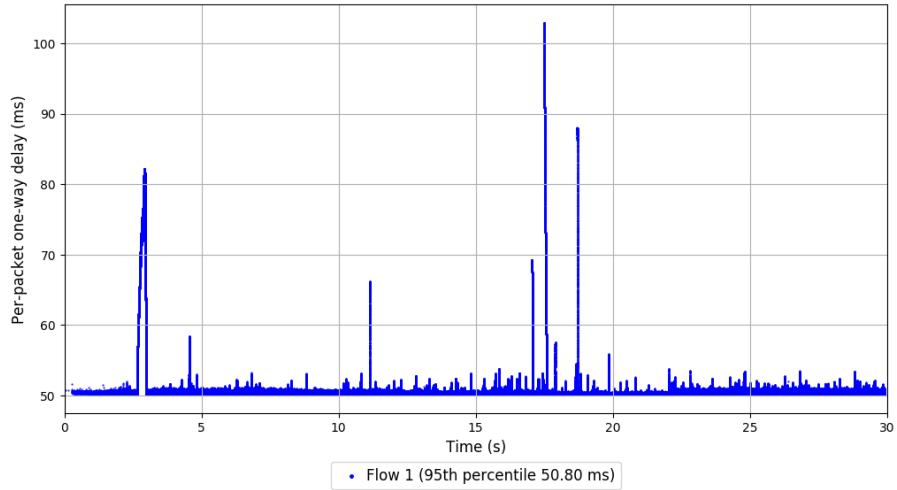
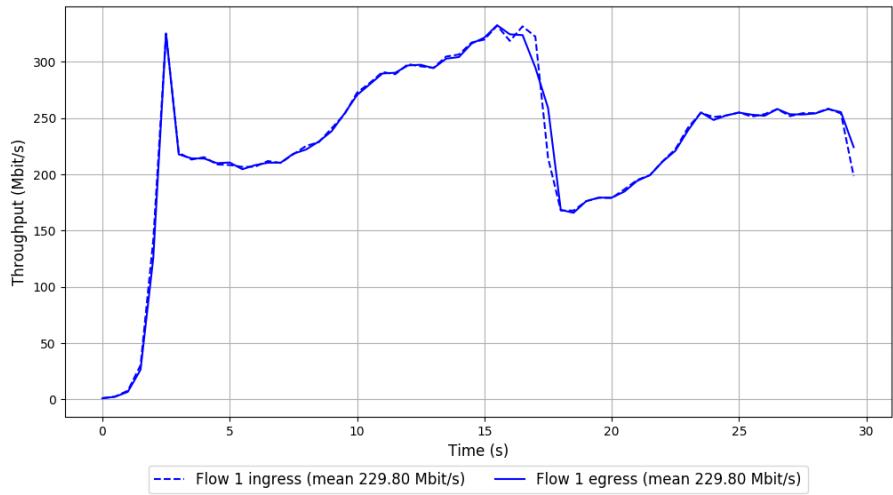
Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 17:31:32

End at: 2018-01-16 17:32:02

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.80 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.80 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.00%
```

Run 3: Report of Vivace-latency — Data Link



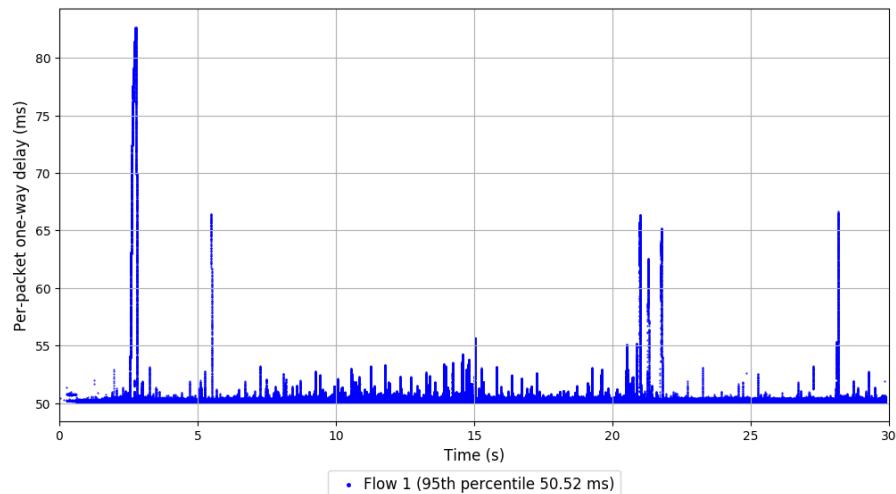
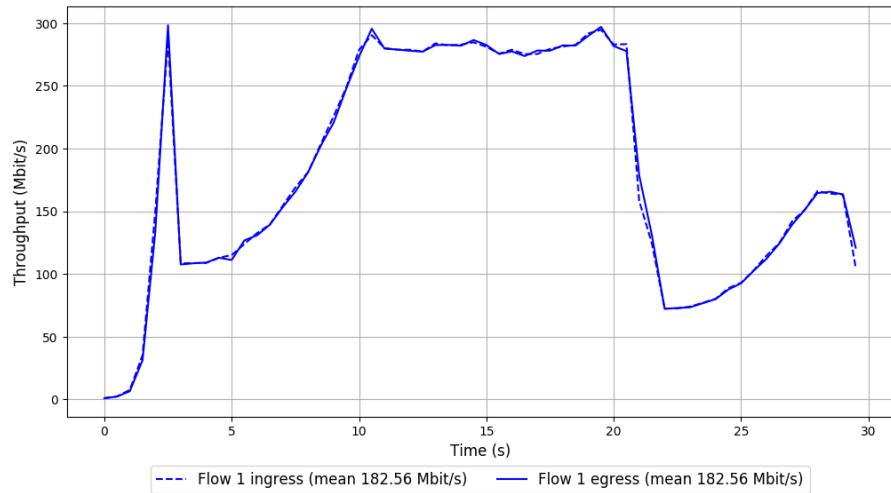
Run 4: Statistics of Vivace-latency

Start at: 2018-01-16 17:45:44

End at: 2018-01-16 17:46:14

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.56 Mbit/s
95th percentile per-packet one-way delay: 50.519 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.56 Mbit/s
95th percentile per-packet one-way delay: 50.519 ms
Loss rate: 0.00%
```

#### Run 4: Report of Vivace-latency — Data Link



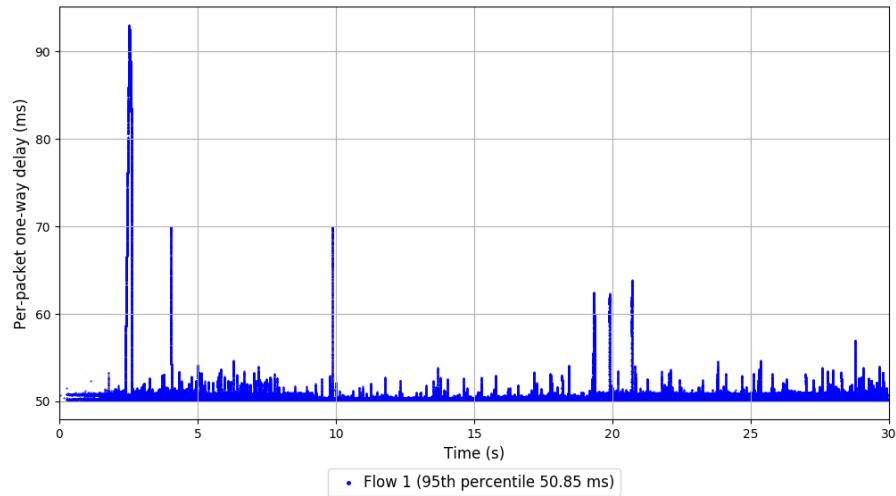
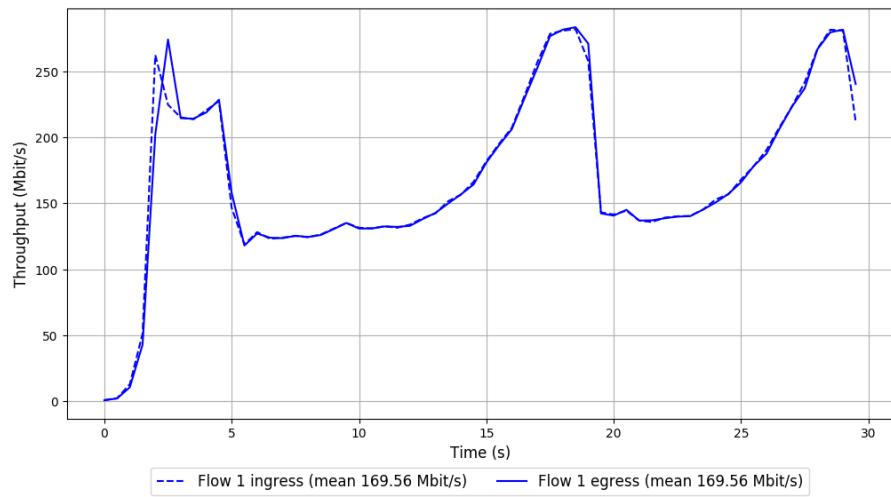
Run 5: Statistics of Vivace-latency

Start at: 2018-01-16 17:59:45

End at: 2018-01-16 18:00:15

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.56 Mbit/s
95th percentile per-packet one-way delay: 50.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.56 Mbit/s
95th percentile per-packet one-way delay: 50.851 ms
Loss rate: 0.00%
```

Run 5: Report of Vivace-latency — Data Link



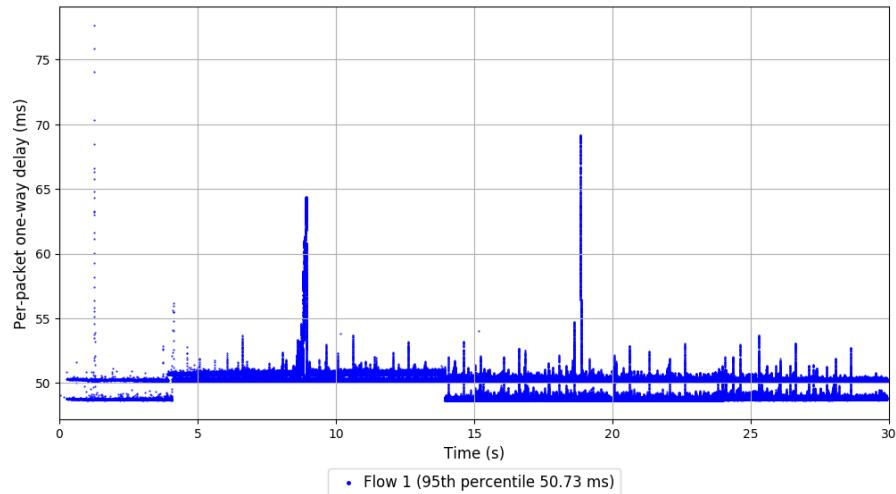
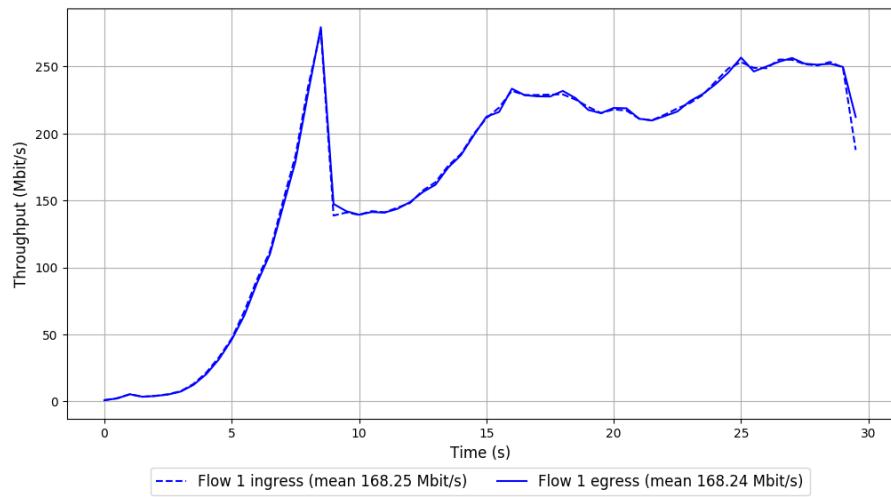
Run 6: Statistics of Vivace-latency

Start at: 2018-01-16 18:13:30

End at: 2018-01-16 18:14:00

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.24 Mbit/s
95th percentile per-packet one-way delay: 50.735 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 168.24 Mbit/s
95th percentile per-packet one-way delay: 50.735 ms
Loss rate: 0.00%
```

Run 6: Report of Vivace-latency — Data Link



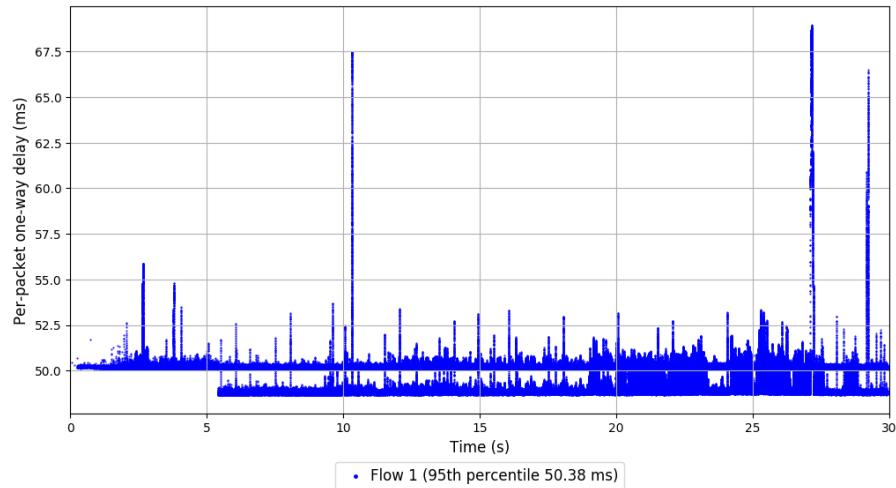
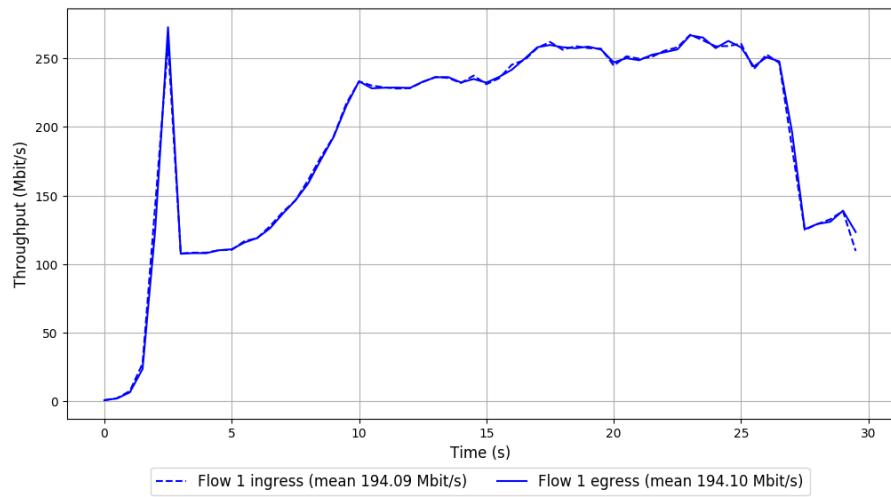
Run 7: Statistics of Vivace-latency

Start at: 2018-01-16 18:27:39

End at: 2018-01-16 18:28:09

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.10 Mbit/s
95th percentile per-packet one-way delay: 50.375 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.10 Mbit/s
95th percentile per-packet one-way delay: 50.375 ms
Loss rate: 0.00%
```

Run 7: Report of Vivace-latency — Data Link



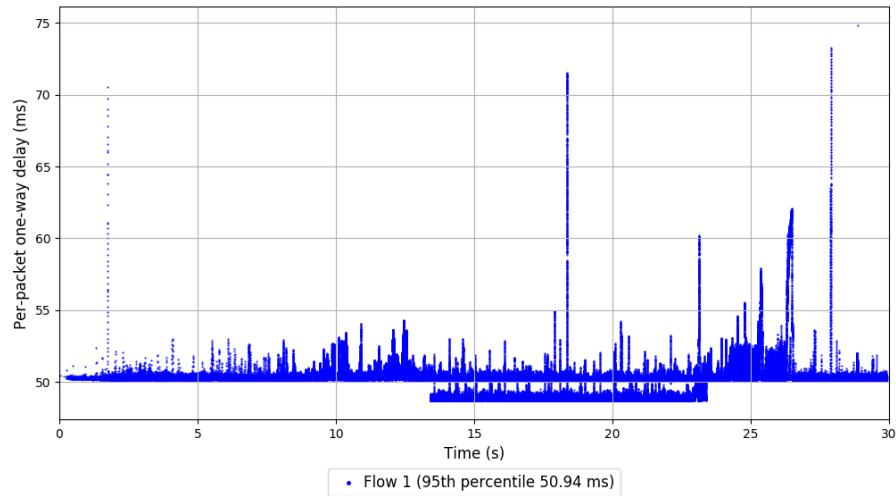
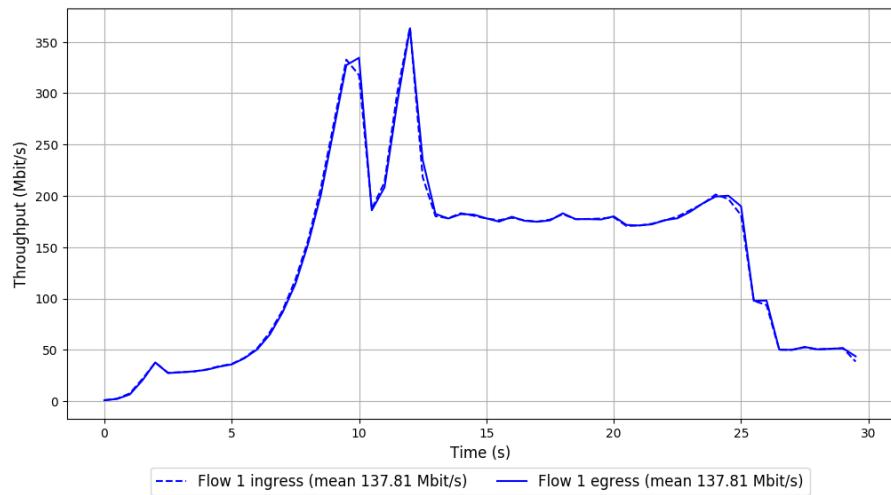
Run 8: Statistics of Vivace-latency

Start at: 2018-01-16 18:41:31

End at: 2018-01-16 18:42:01

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.81 Mbit/s
95th percentile per-packet one-way delay: 50.937 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.81 Mbit/s
95th percentile per-packet one-way delay: 50.937 ms
Loss rate: 0.00%
```

Run 8: Report of Vivace-latency — Data Link



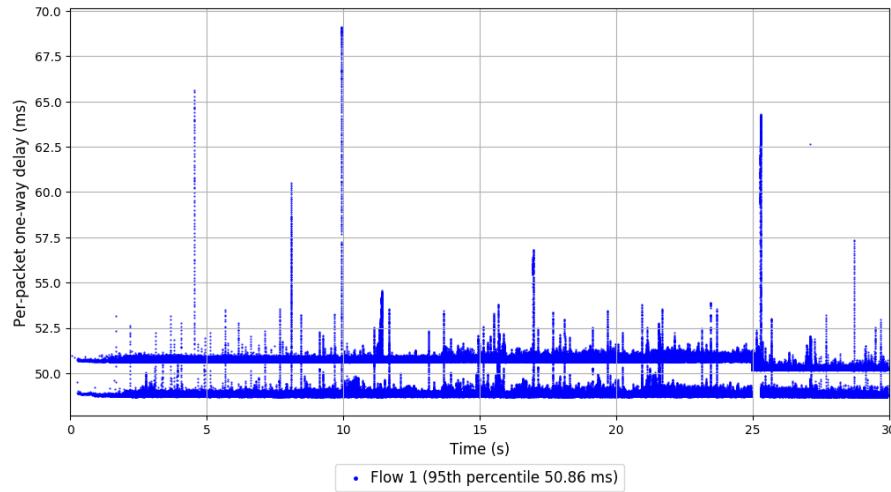
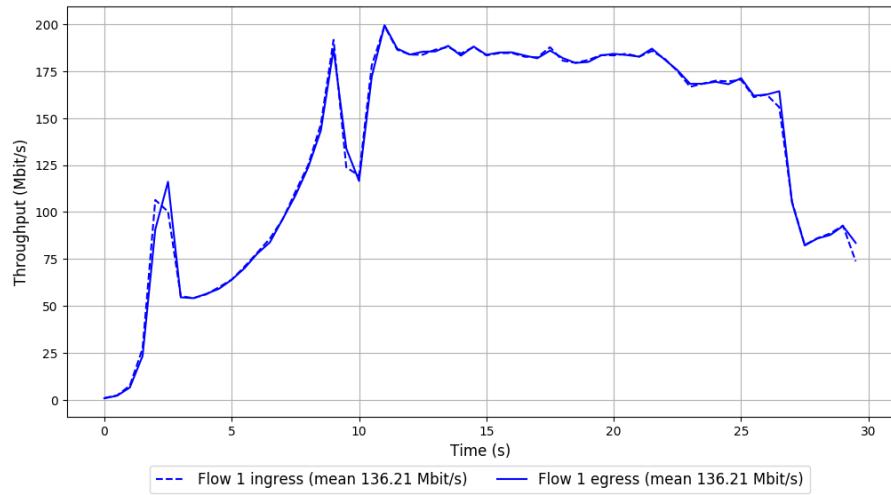
Run 9: Statistics of Vivace-latency

Start at: 2018-01-16 18:55:39

End at: 2018-01-16 18:56:09

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 136.21 Mbit/s
95th percentile per-packet one-way delay: 50.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 136.21 Mbit/s
95th percentile per-packet one-way delay: 50.861 ms
Loss rate: 0.00%
```

Run 9: Report of Vivace-latency — Data Link



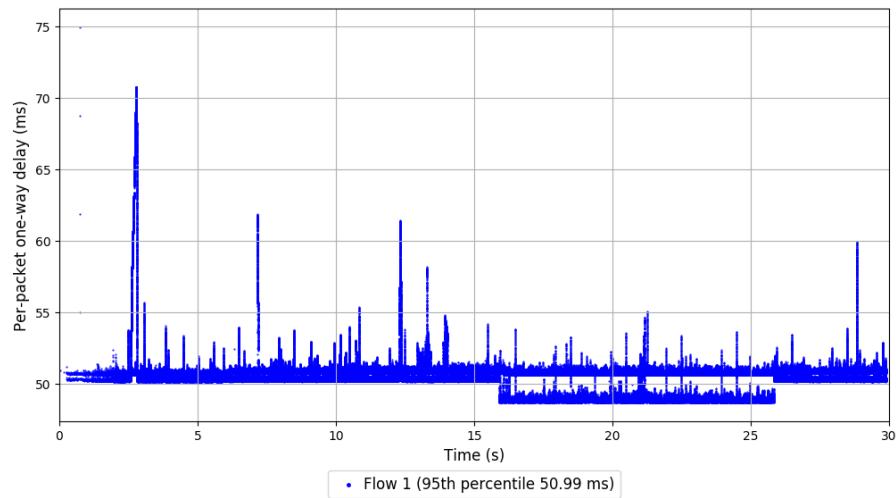
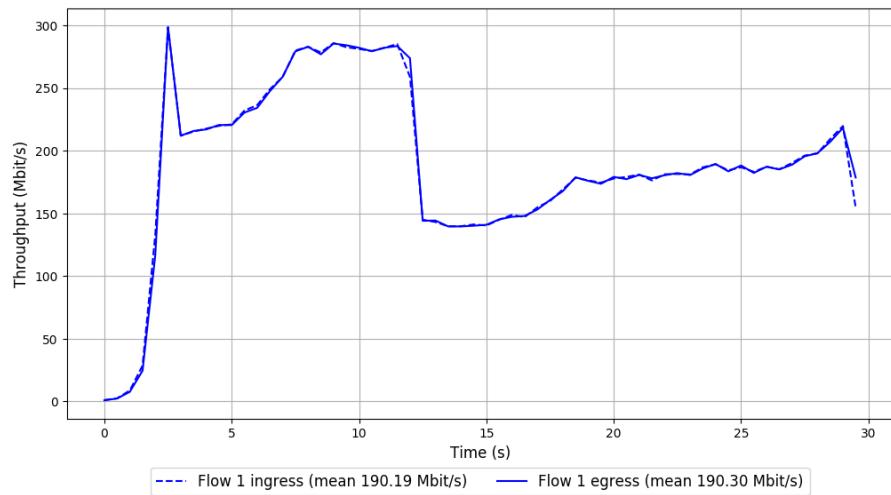
Run 10: Statistics of Vivace-latency

Start at: 2018-01-16 19:09:48

End at: 2018-01-16 19:10:18

```
# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.30 Mbit/s
95th percentile per-packet one-way delay: 50.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 190.30 Mbit/s
95th percentile per-packet one-way delay: 50.988 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-latency — Data Link

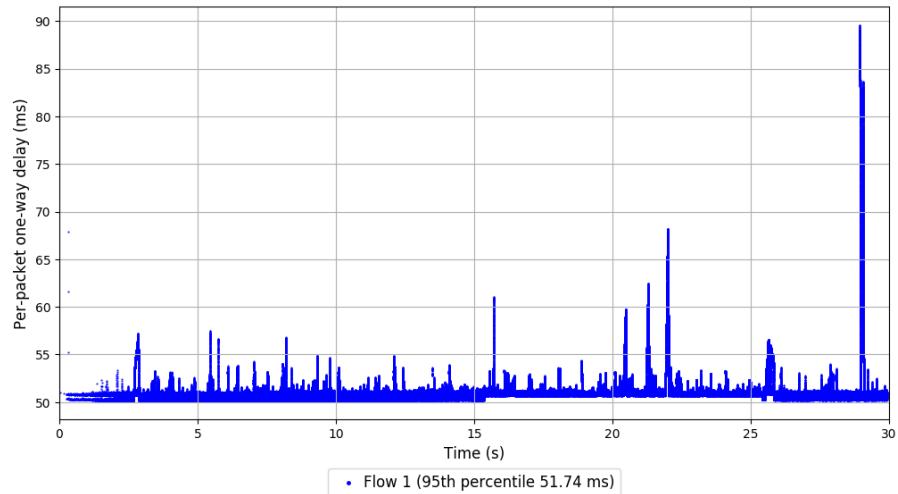
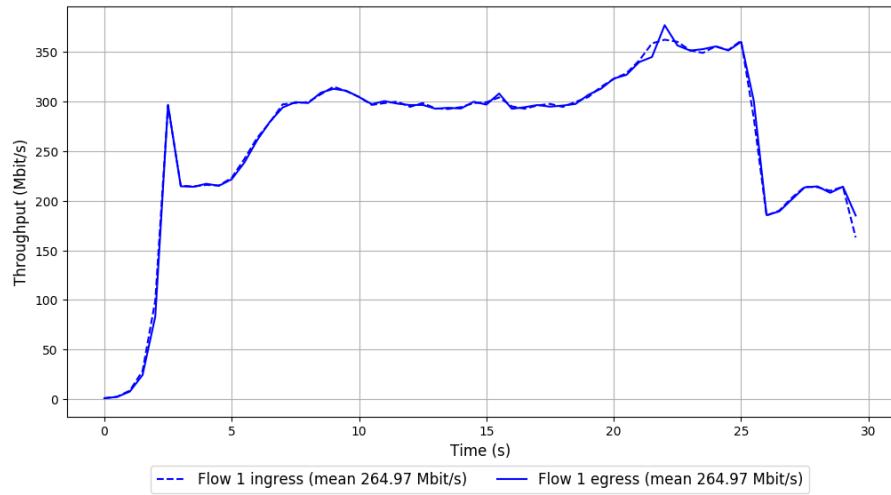


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 17:07:49
End at: 2018-01-16 17:08:19

# Below is generated by plot.py at 2018-01-16 22:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.97 Mbit/s
95th percentile per-packet one-way delay: 51.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 264.97 Mbit/s
95th percentile per-packet one-way delay: 51.745 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link



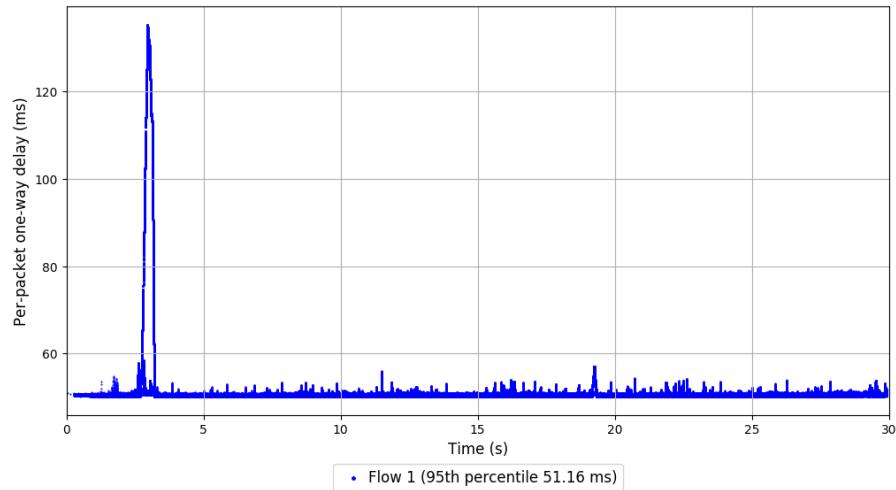
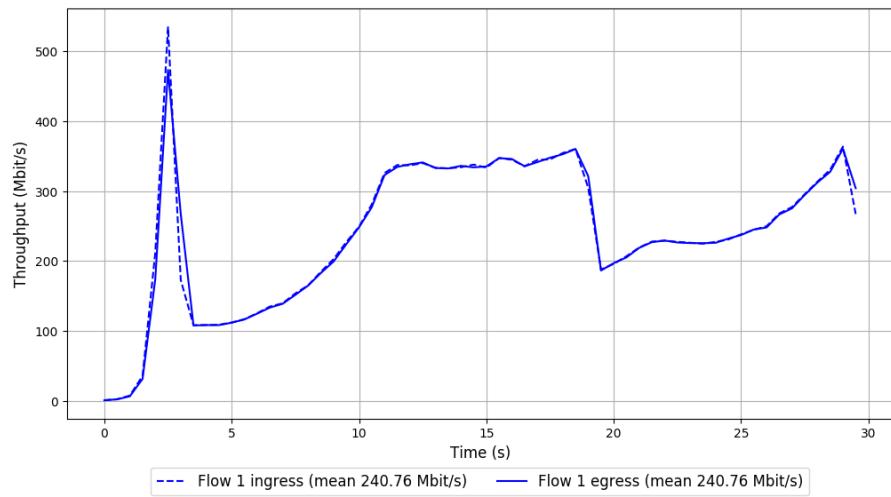
Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 17:22:13

End at: 2018-01-16 17:22:43

```
# Below is generated by plot.py at 2018-01-16 22:14:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 240.76 Mbit/s
95th percentile per-packet one-way delay: 51.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 240.76 Mbit/s
95th percentile per-packet one-way delay: 51.157 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



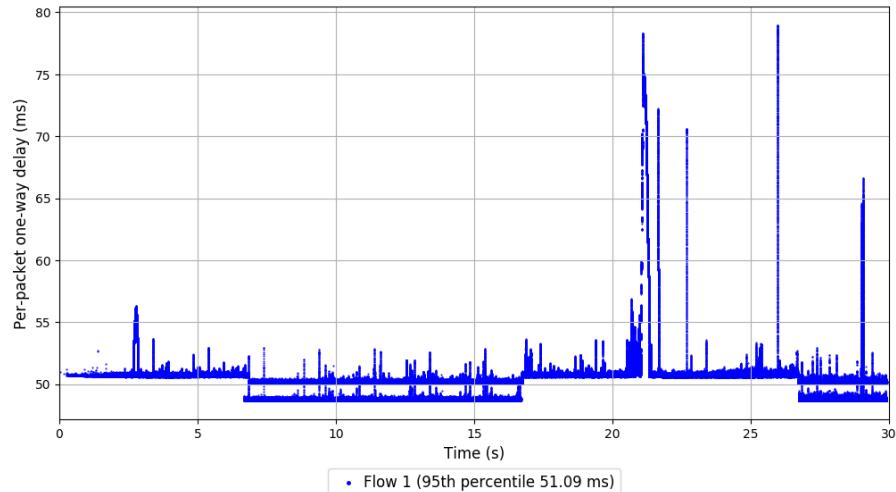
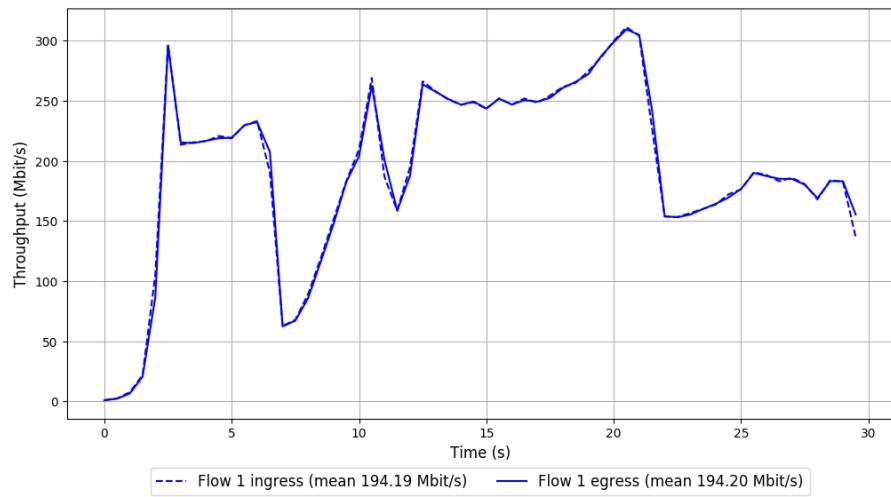
Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 17:36:27

End at: 2018-01-16 17:36:57

```
# Below is generated by plot.py at 2018-01-16 22:15:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.20 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.20 Mbit/s
95th percentile per-packet one-way delay: 51.087 ms
Loss rate: 0.00%
```

Run 3: Report of Vivace-loss — Data Link



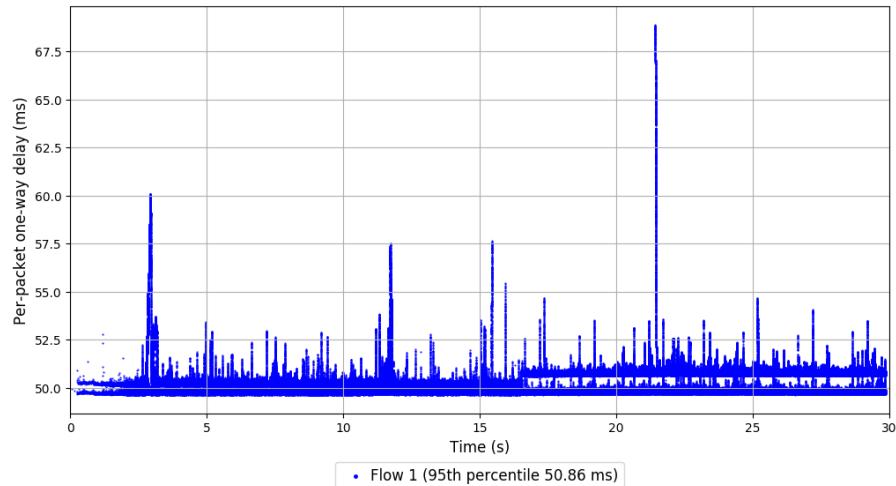
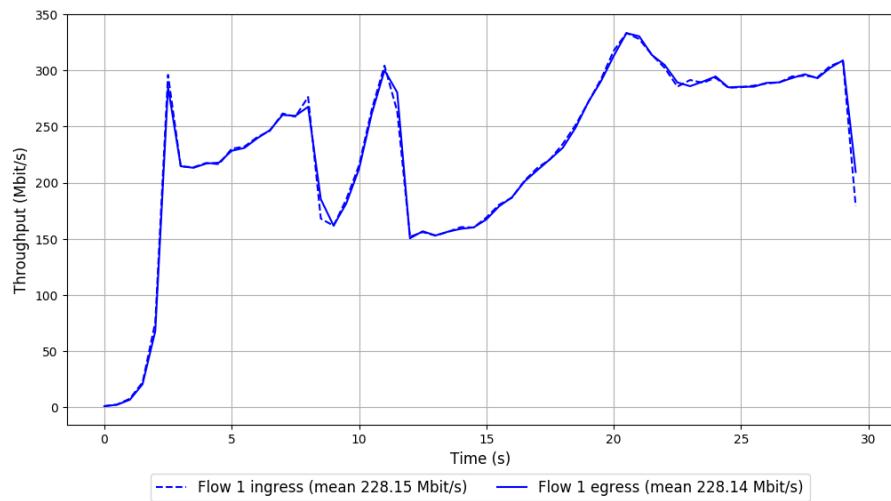
Run 4: Statistics of Vivace-loss

Start at: 2018-01-16 17:50:28

End at: 2018-01-16 17:50:58

```
# Below is generated by plot.py at 2018-01-16 22:16:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.14 Mbit/s
95th percentile per-packet one-way delay: 50.857 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.14 Mbit/s
95th percentile per-packet one-way delay: 50.857 ms
Loss rate: 0.00%
```

Run 4: Report of Vivace-loss — Data Link



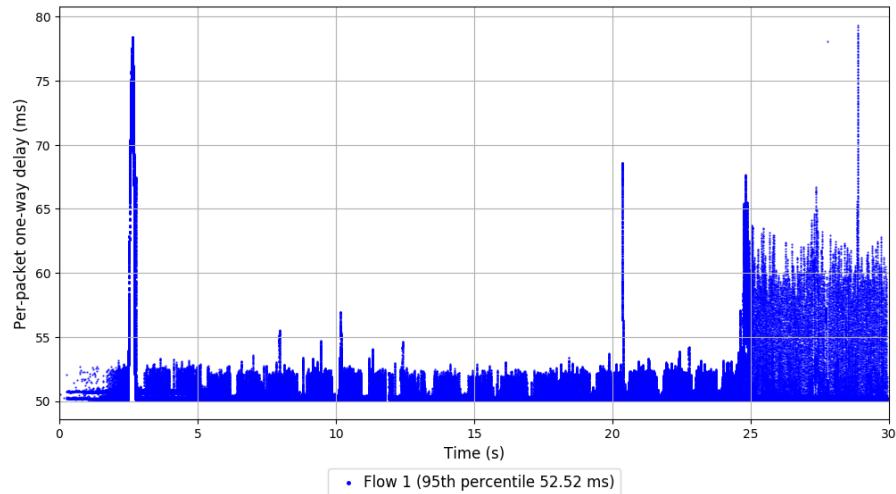
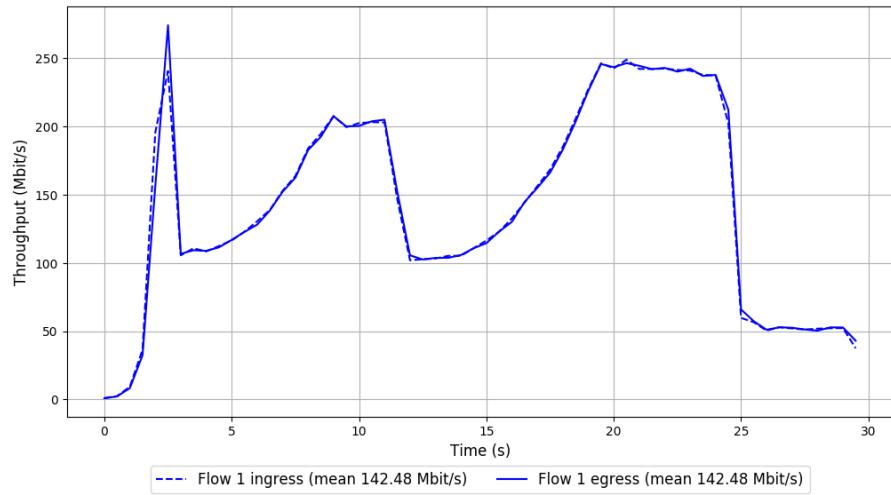
Run 5: Statistics of Vivace-loss

Start at: 2018-01-16 18:04:29

End at: 2018-01-16 18:04:59

```
# Below is generated by plot.py at 2018-01-16 22:16:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 142.48 Mbit/s
95th percentile per-packet one-way delay: 52.520 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 142.48 Mbit/s
95th percentile per-packet one-way delay: 52.520 ms
Loss rate: 0.00%
```

Run 5: Report of Vivace-loss — Data Link



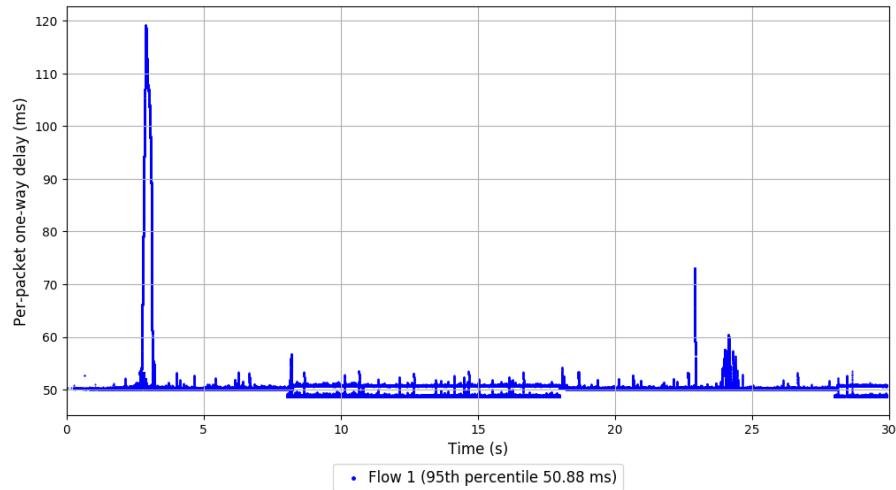
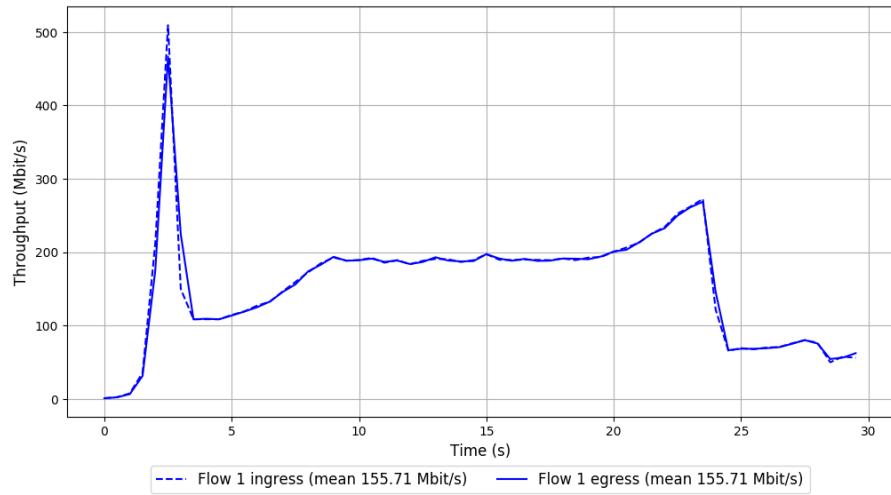
Run 6: Statistics of Vivace-loss

Start at: 2018-01-16 18:18:26

End at: 2018-01-16 18:18:56

```
# Below is generated by plot.py at 2018-01-16 22:16:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.71 Mbit/s
95th percentile per-packet one-way delay: 50.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.71 Mbit/s
95th percentile per-packet one-way delay: 50.885 ms
Loss rate: 0.00%
```

Run 6: Report of Vivace-loss — Data Link



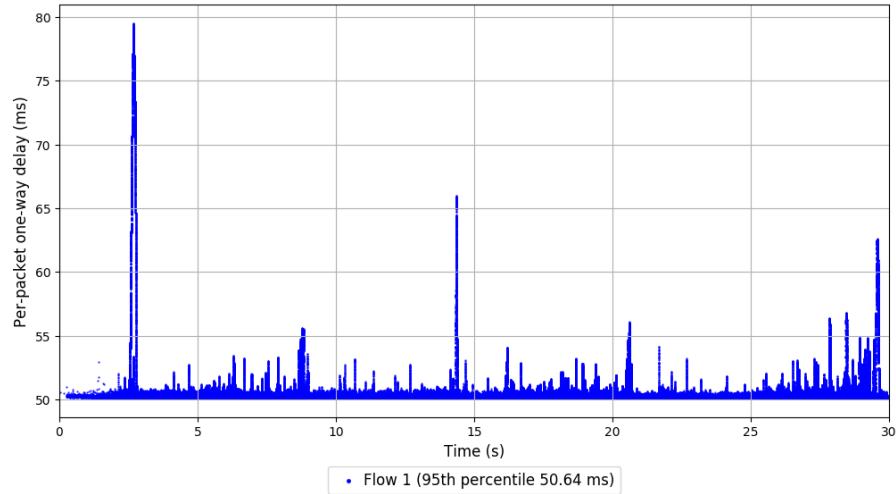
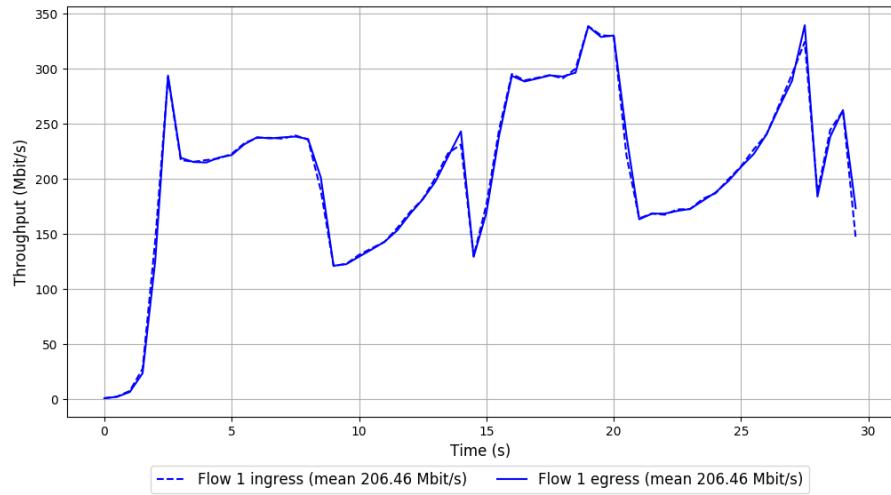
Run 7: Statistics of Vivace-loss

Start at: 2018-01-16 18:32:24

End at: 2018-01-16 18:32:54

```
# Below is generated by plot.py at 2018-01-16 22:17:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.46 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.46 Mbit/s
95th percentile per-packet one-way delay: 50.641 ms
Loss rate: 0.00%
```

Run 7: Report of Vivace-loss — Data Link



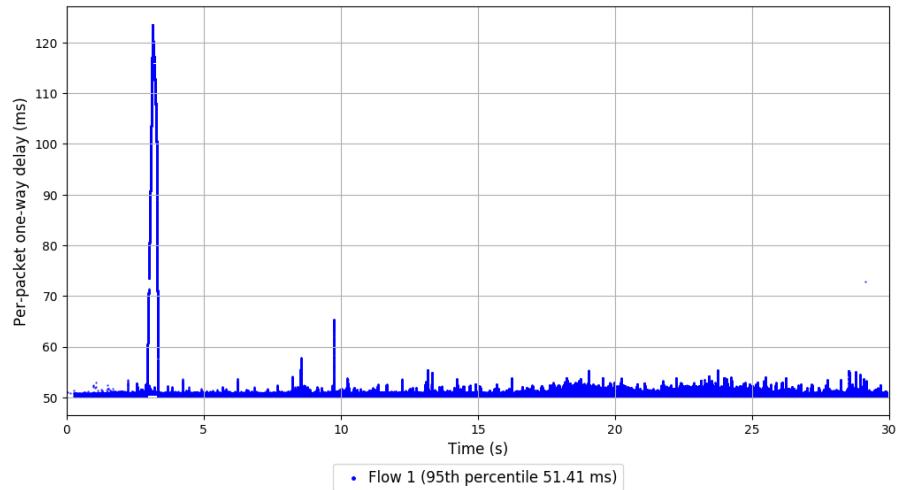
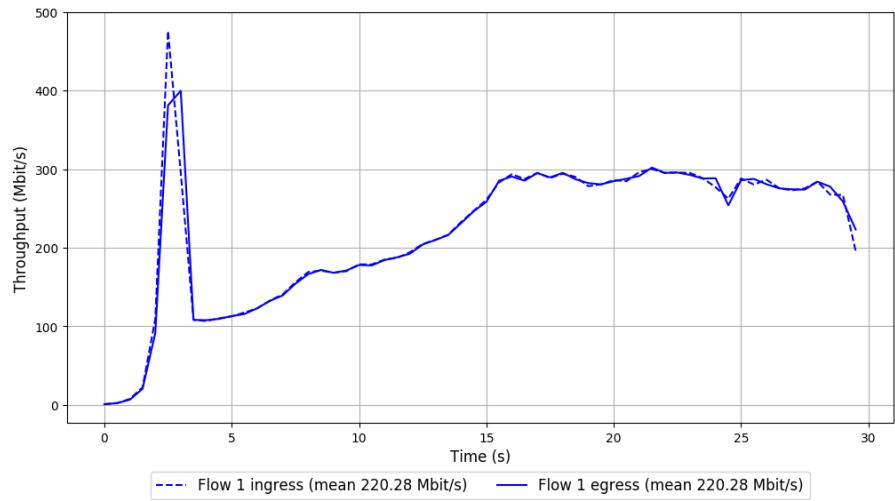
Run 8: Statistics of Vivace-loss

Start at: 2018-01-16 18:46:11

End at: 2018-01-16 18:46:41

```
# Below is generated by plot.py at 2018-01-16 22:17:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 51.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.28 Mbit/s
95th percentile per-packet one-way delay: 51.412 ms
Loss rate: 0.00%
```

Run 8: Report of Vivace-loss — Data Link



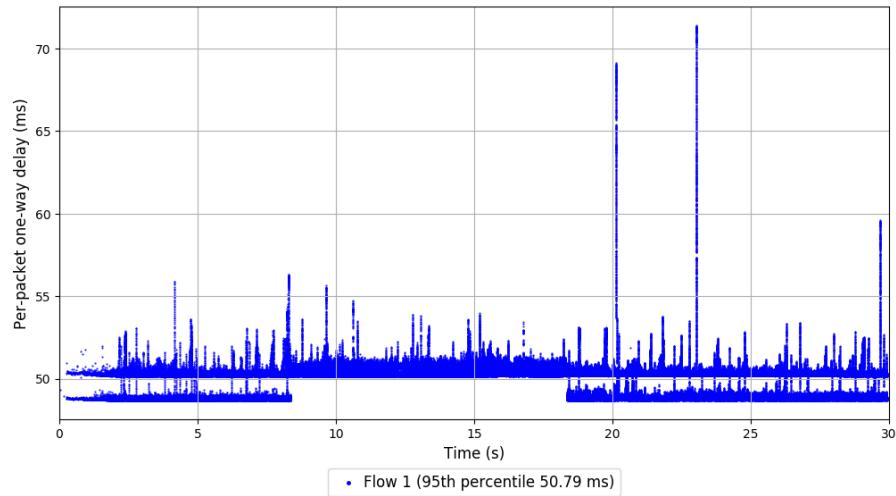
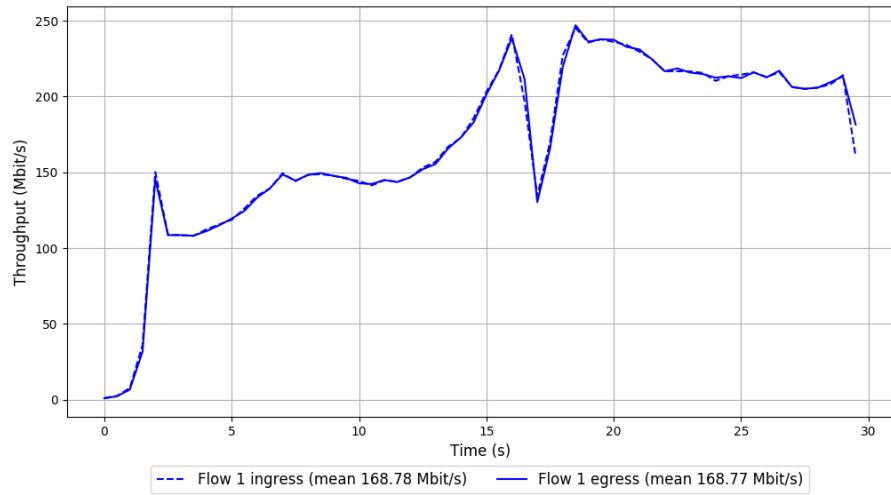
Run 9: Statistics of Vivace-loss

Start at: 2018-01-16 19:00:26

End at: 2018-01-16 19:00:56

```
# Below is generated by plot.py at 2018-01-16 22:18:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.77 Mbit/s
95th percentile per-packet one-way delay: 50.787 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 168.77 Mbit/s
95th percentile per-packet one-way delay: 50.787 ms
Loss rate: 0.00%
```

Run 9: Report of Vivace-loss — Data Link



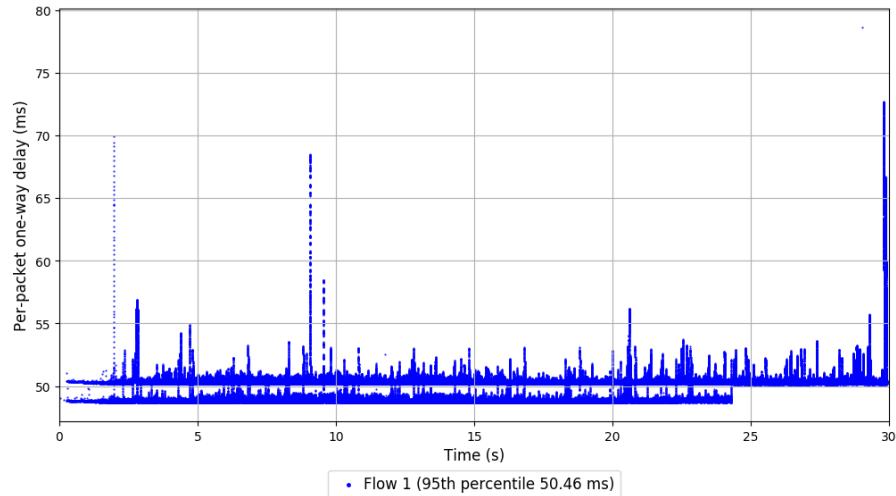
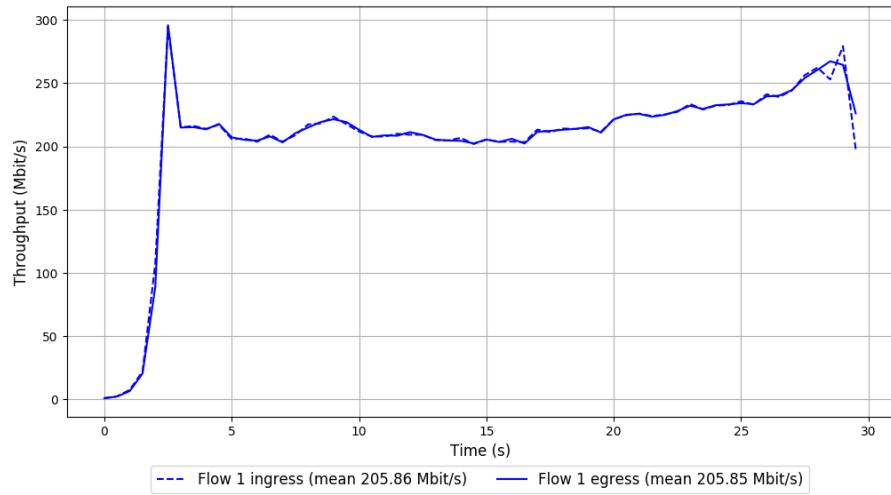
Run 10: Statistics of Vivace-loss

Start at: 2018-01-16 19:14:40

End at: 2018-01-16 19:15:10

```
# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.85 Mbit/s
95th percentile per-packet one-way delay: 50.463 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.85 Mbit/s
95th percentile per-packet one-way delay: 50.463 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-loss — Data Link



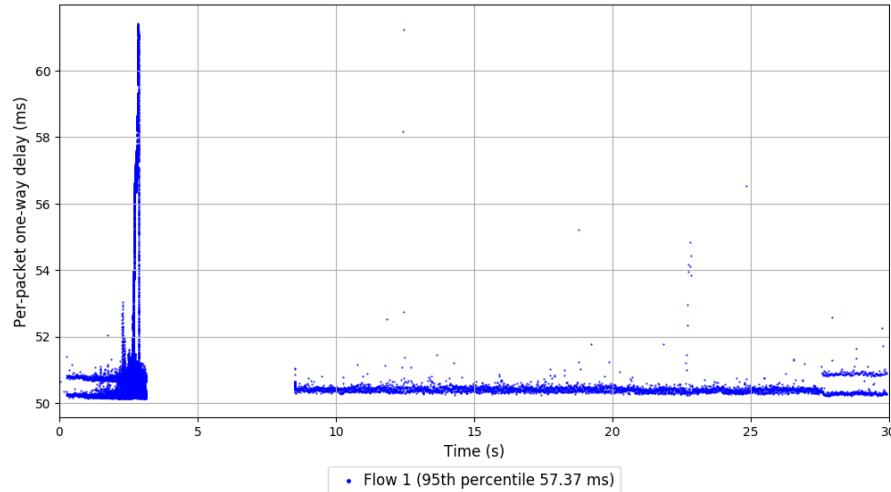
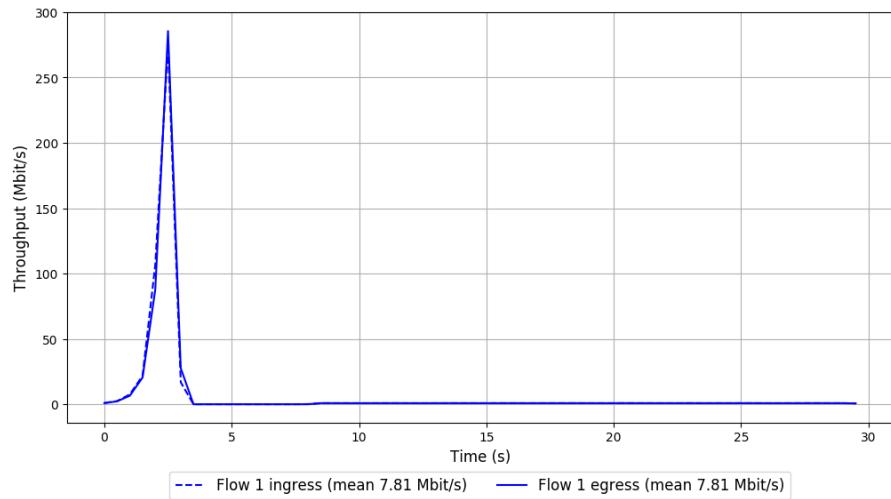
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 16:59:57

End at: 2018-01-16 17:00:27

```
# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 57.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 57.370 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



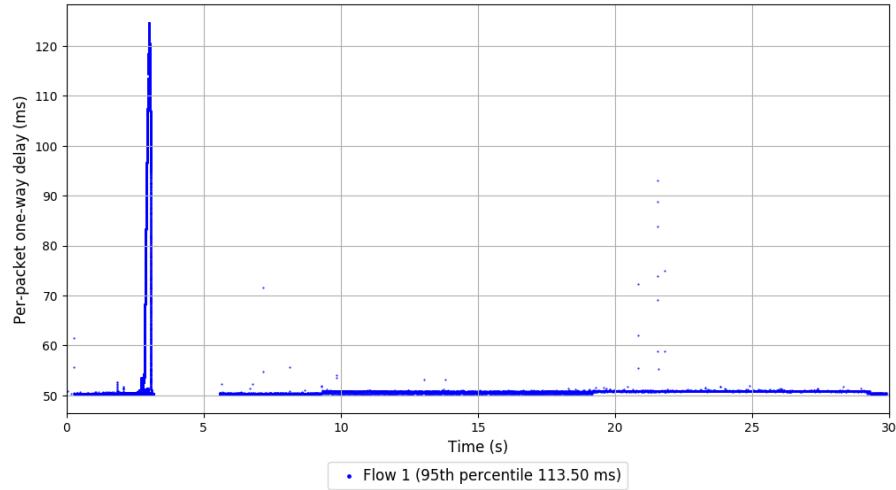
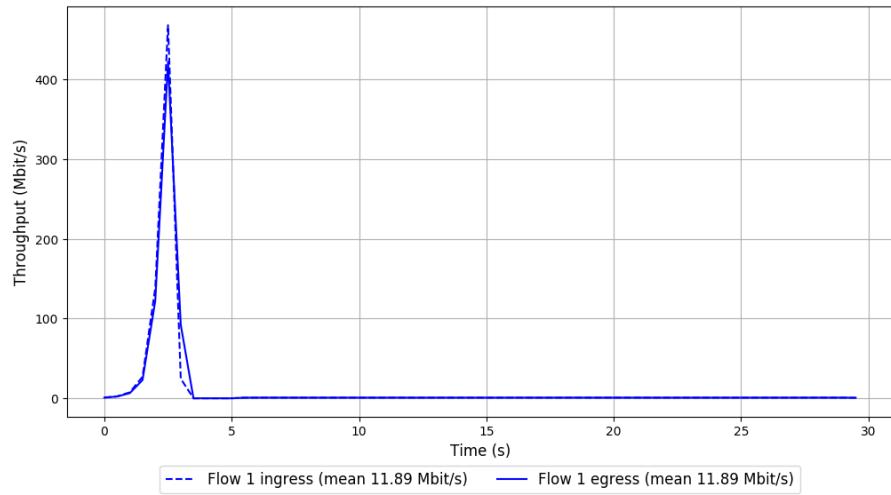
Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 17:14:15

End at: 2018-01-16 17:14:45

```
# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 113.496 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.89 Mbit/s
95th percentile per-packet one-way delay: 113.496 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-LTE — Data Link



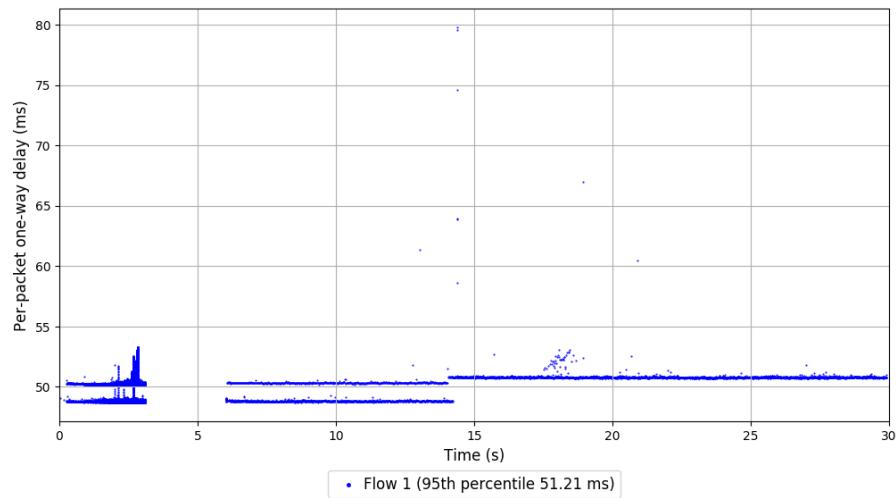
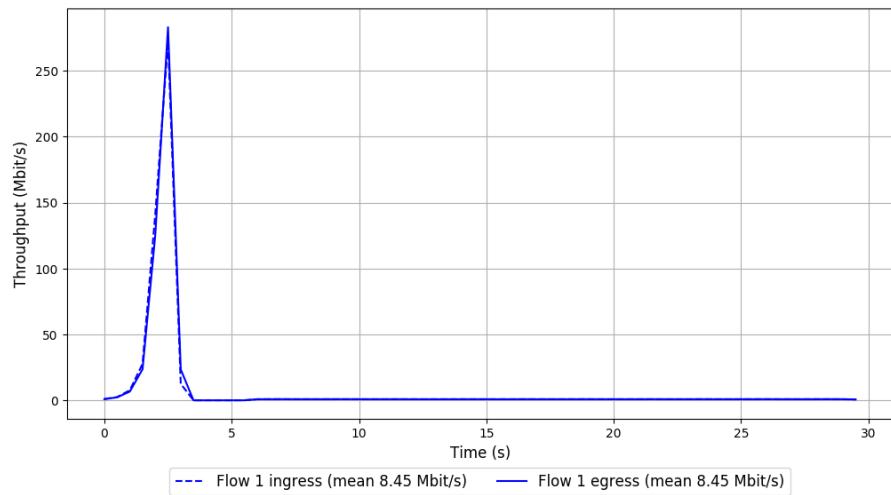
Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 17:28:30

End at: 2018-01-16 17:29:00

```
# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 51.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 51.214 ms
Loss rate: 0.00%
```

Run 3: Report of Vivace-LTE — Data Link



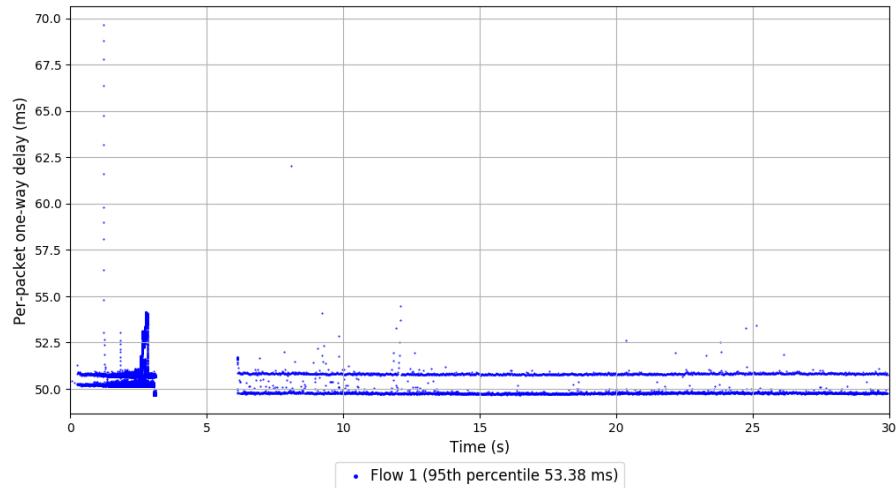
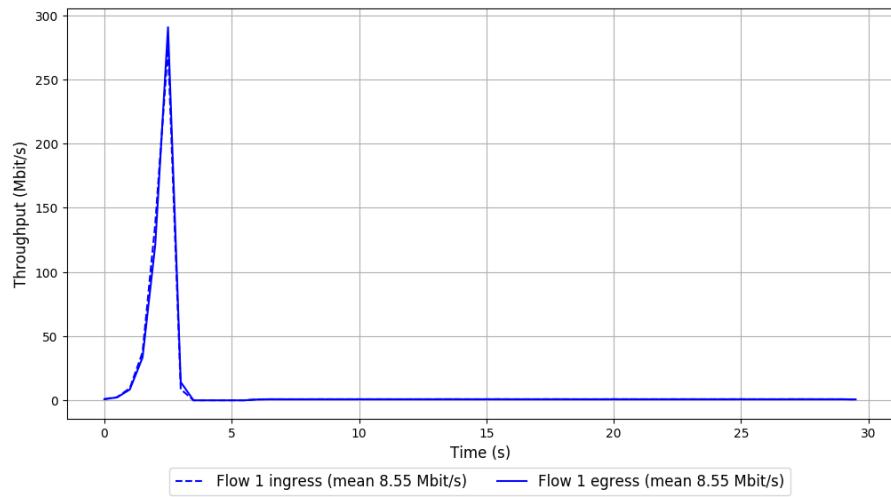
Run 4: Statistics of Vivace-LTE

Start at: 2018-01-16 17:42:41

End at: 2018-01-16 17:43:11

```
# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 53.384 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.55 Mbit/s
95th percentile per-packet one-way delay: 53.384 ms
Loss rate: 0.00%
```

Run 4: Report of Vivace-LTE — Data Link



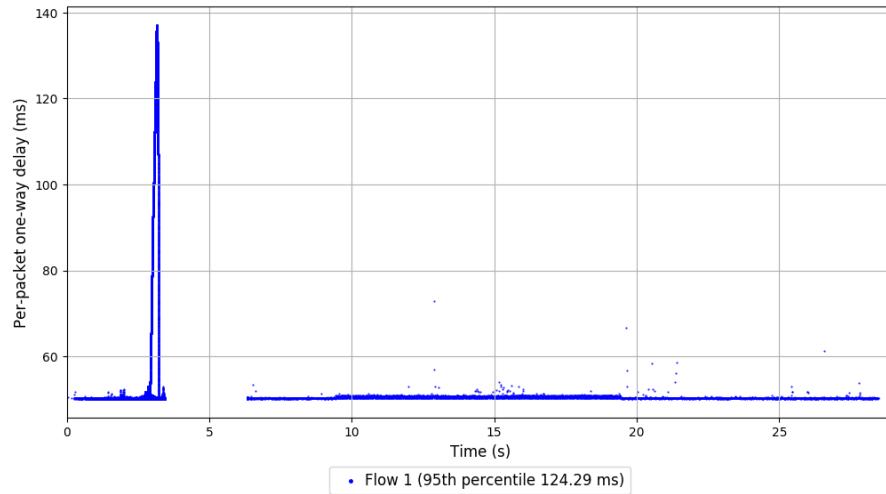
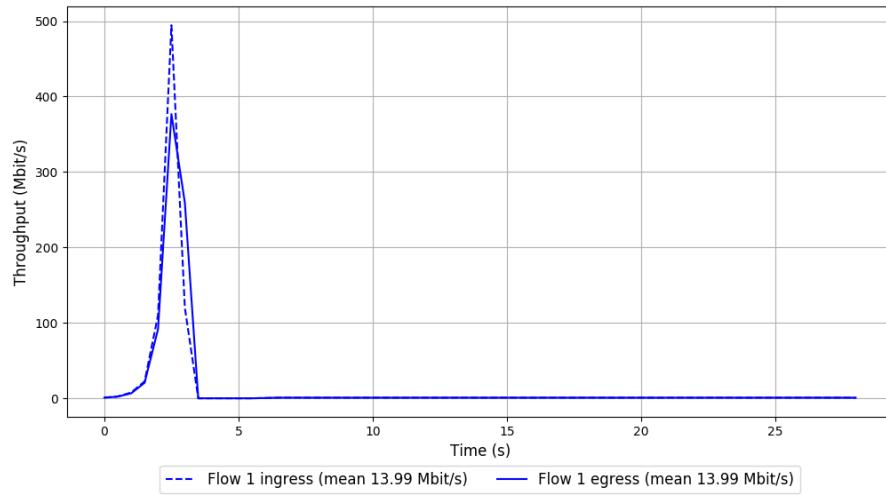
Run 5: Statistics of Vivace-LTE

Start at: 2018-01-16 17:56:43

End at: 2018-01-16 17:57:13

```
# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 124.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.99 Mbit/s
95th percentile per-packet one-way delay: 124.286 ms
Loss rate: 0.00%
```

Run 5: Report of Vivace-LTE — Data Link



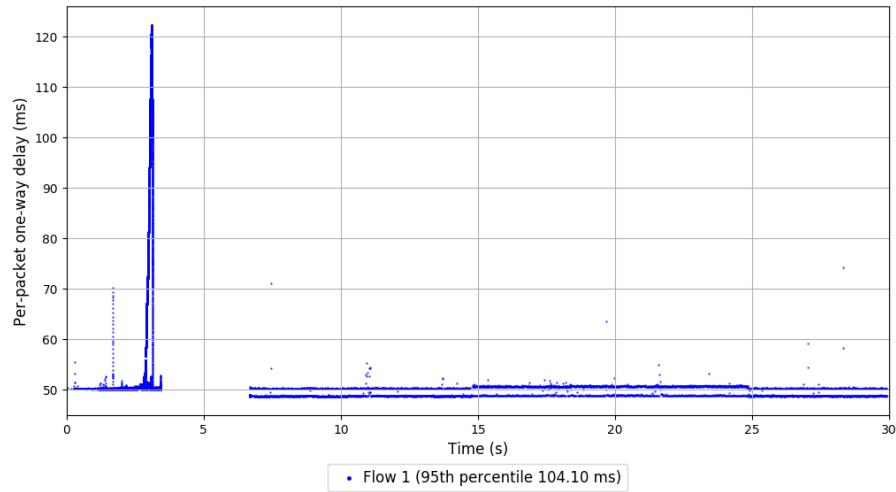
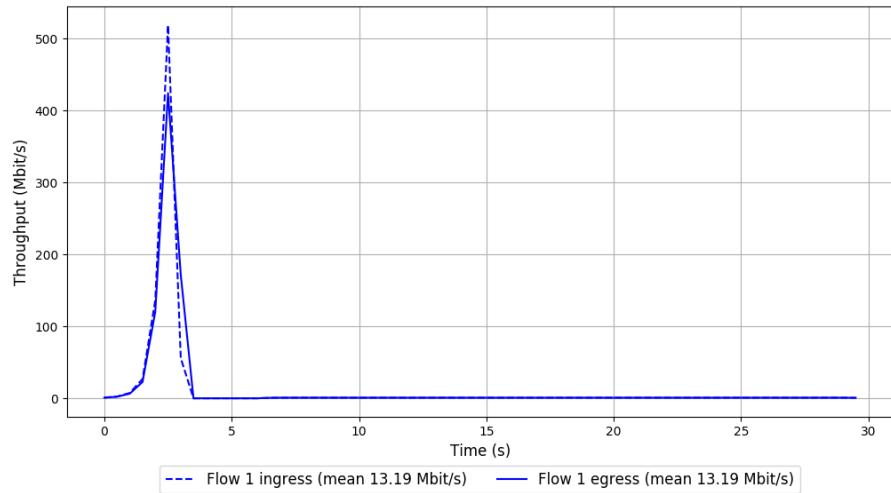
Run 6: Statistics of Vivace-LTE

Start at: 2018-01-16 18:10:29

End at: 2018-01-16 18:10:59

```
# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 104.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 104.098 ms
Loss rate: 0.00%
```

Run 6: Report of Vivace-LTE — Data Link



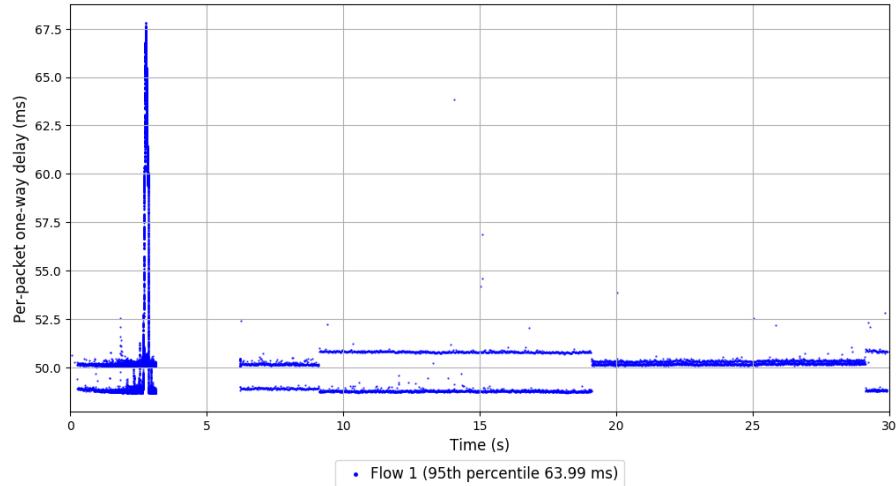
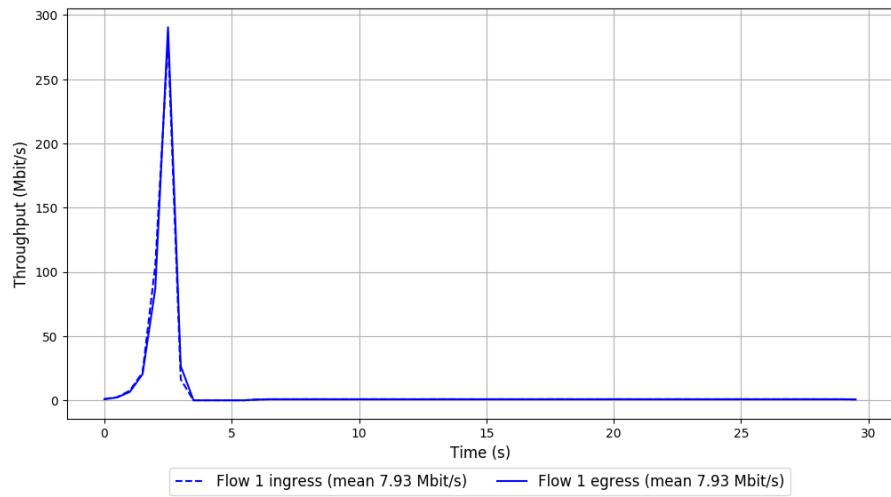
Run 7: Statistics of Vivace-LTE

Start at: 2018-01-16 18:24:35

End at: 2018-01-16 18:25:05

```
# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 63.989 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 63.989 ms
Loss rate: 0.00%
```

Run 7: Report of Vivace-LTE — Data Link



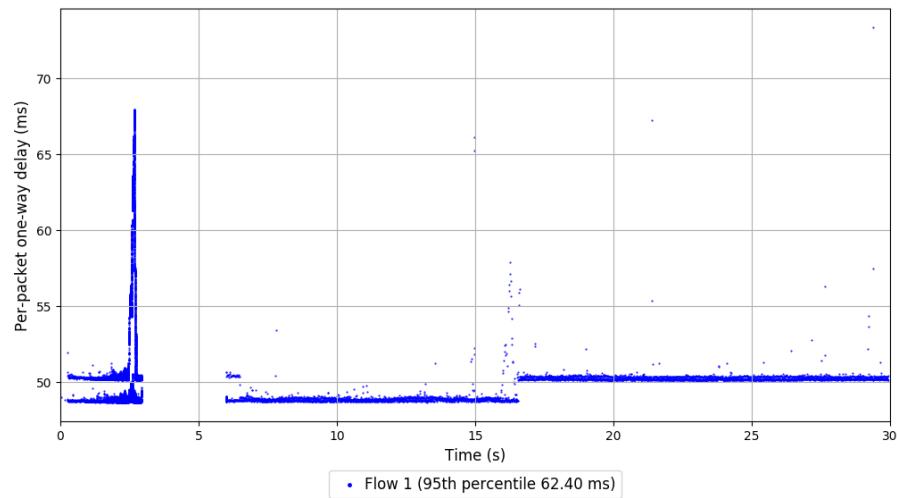
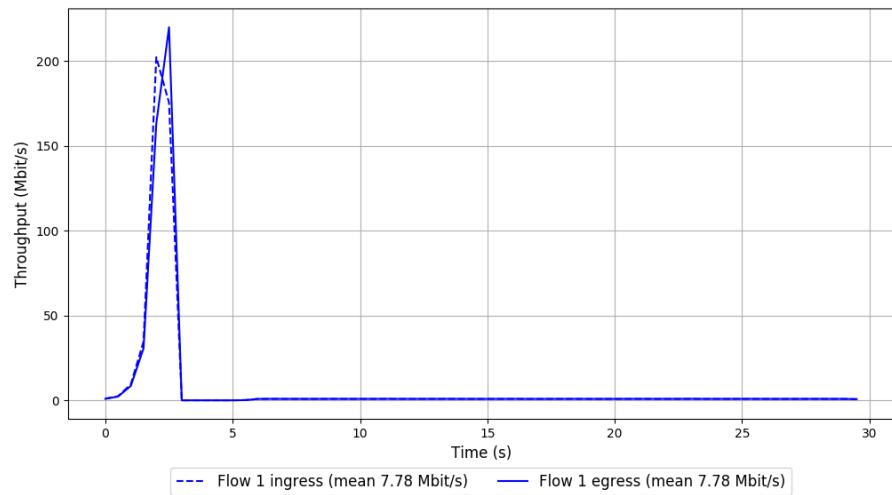
Run 8: Statistics of Vivace-LTE

Start at: 2018-01-16 18:38:28

End at: 2018-01-16 18:38:58

```
# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 62.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.78 Mbit/s
95th percentile per-packet one-way delay: 62.398 ms
Loss rate: 0.00%
```

Run 8: Report of Vivace-LTE — Data Link



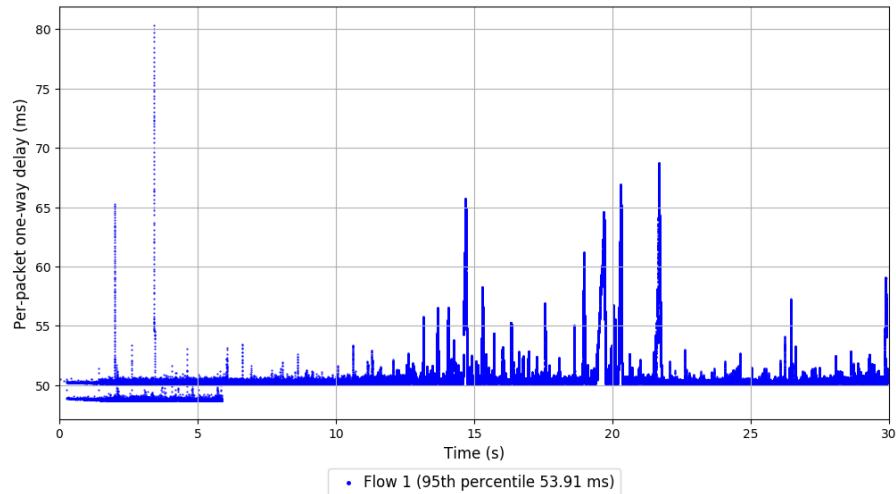
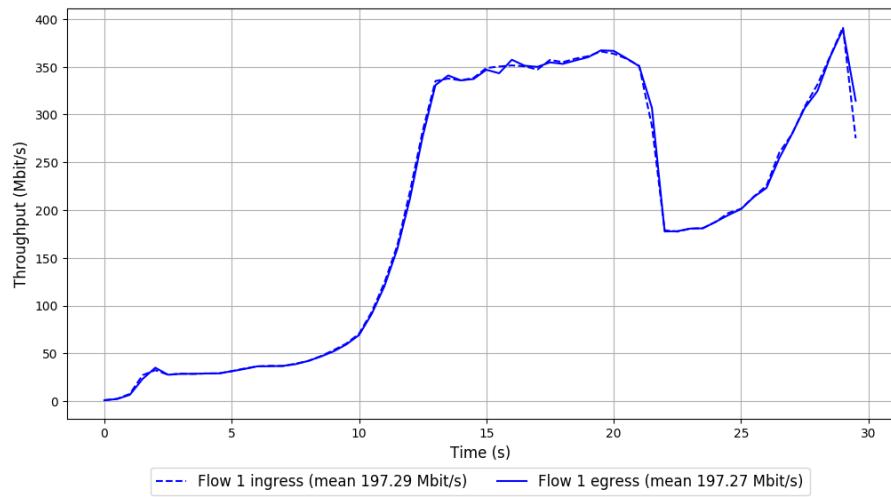
Run 9: Statistics of Vivace-LTE

Start at: 2018-01-16 18:52:18

End at: 2018-01-16 18:52:48

```
# Below is generated by plot.py at 2018-01-16 22:18:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 197.27 Mbit/s
95th percentile per-packet one-way delay: 53.913 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 197.27 Mbit/s
95th percentile per-packet one-way delay: 53.913 ms
Loss rate: 0.01%
```

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-16 19:06:34

End at: 2018-01-16 19:07:04

```
# Below is generated by plot.py at 2018-01-16 22:18:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.42 Mbit/s
95th percentile per-packet one-way delay: 50.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.42 Mbit/s
95th percentile per-packet one-way delay: 50.583 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

