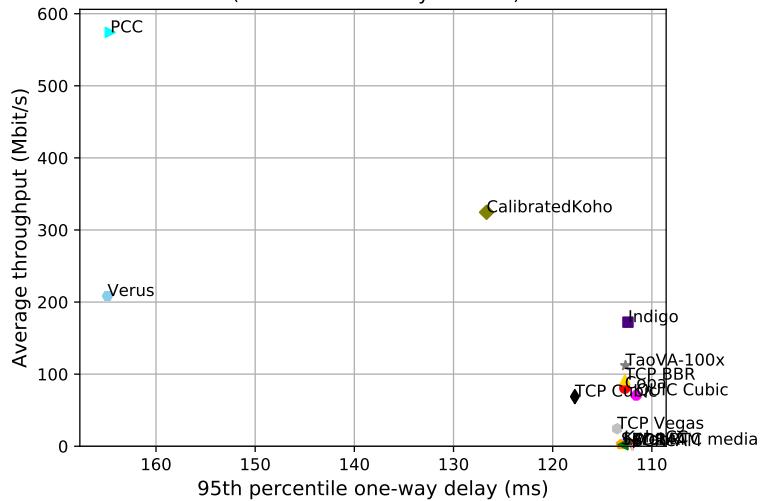


Pantheon Report

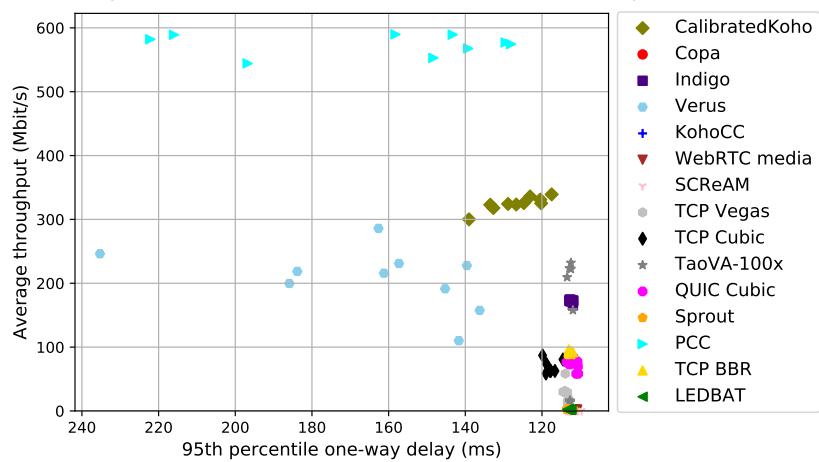
Generated at 2017-09-18 01:45:40 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE London Ethernet (*local*).
Repeated the test of 15 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

```
Git summary:  
branch: master @ 57453dc11f8da93a2e03eea75289fea01b816298  
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50  
  M datagrump/sender.cc  
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366  
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55  
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681  
  M datagrump/sender.cc  
third_party/libutp @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf  
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4  
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681  
third_party/sprout @ 6f2efef6e088d91066a9f023df375eee2665089ce  
  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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Tokyo 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	92.31	112.71	0.83
CalibratedKoho	10	324.52	126.67	1.19
Copa	8	80.54	112.72	0.82
TCP Cubic	8	68.84	117.76	0.78
Indigo	10	172.12	112.41	0.80
KohoCC	10	5.17	112.80	0.78
LEDBAT	10	2.05	112.91	1.03
PCC	9	574.11	164.61	2.14
QUIC Cubic	9	70.65	111.57	0.88
SCReAM	10	0.22	111.96	0.76
Sprout	7	2.58	113.11	0.87
TaoVA-100x	10	111.92	112.66	0.84
TCP Vegas	10	24.27	113.50	0.72
Verus	10	208.40	164.90	1.53
WebRTC media	9	2.11	111.97	0.83

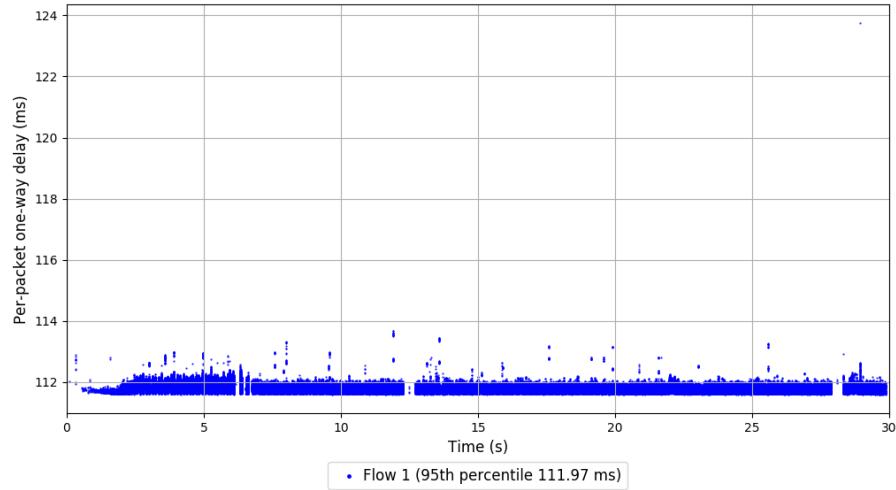
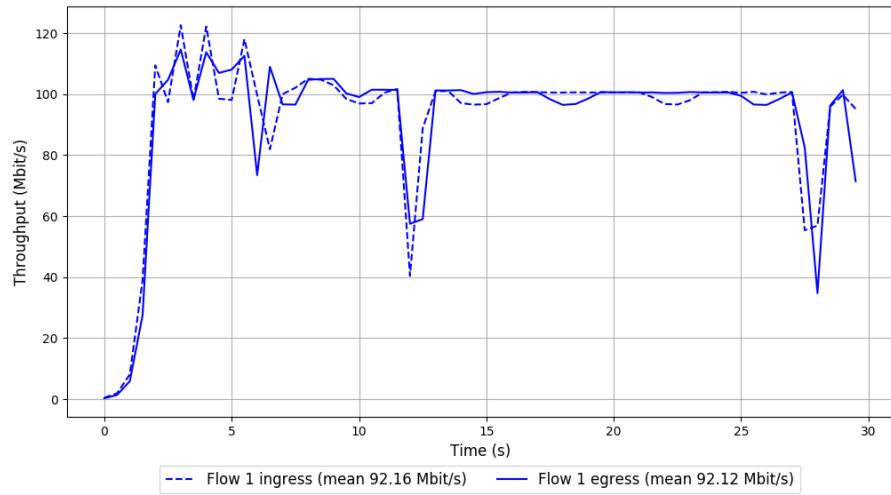
Run 1: Statistics of TCP BBR

Start at: 2017-09-17 21:01:03

End at: 2017-09-17 21:01:33

```
# Below is generated by plot.py at 2017-09-18 01:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 111.974 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 92.12 Mbit/s
95th percentile per-packet one-way delay: 111.974 ms
Loss rate: 0.80%
```

Run 1: Report of TCP BBR — Data Link



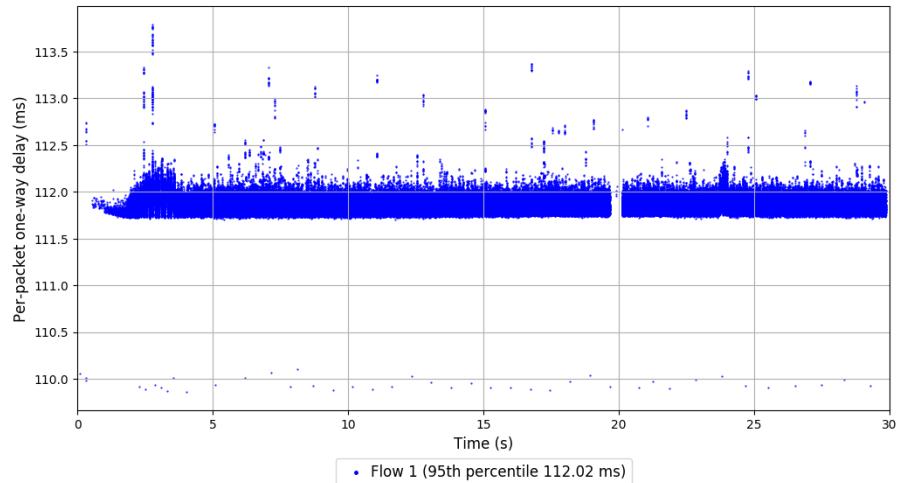
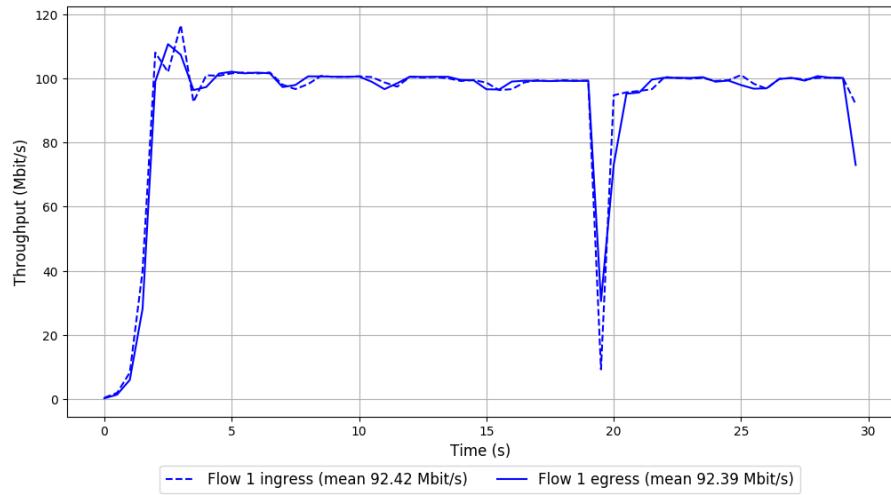
Run 2: Statistics of TCP BBR

Start at: 2017-09-17 21:13:08

End at: 2017-09-17 21:13:38

```
# Below is generated by plot.py at 2017-09-18 01:08:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.39 Mbit/s
95th percentile per-packet one-way delay: 112.017 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 92.39 Mbit/s
95th percentile per-packet one-way delay: 112.017 ms
Loss rate: 0.78%
```

Run 2: Report of TCP BBR — Data Link



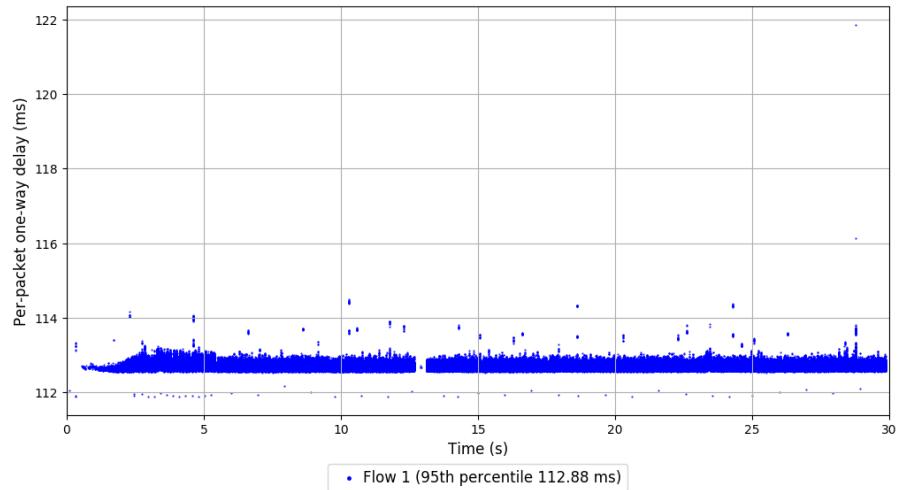
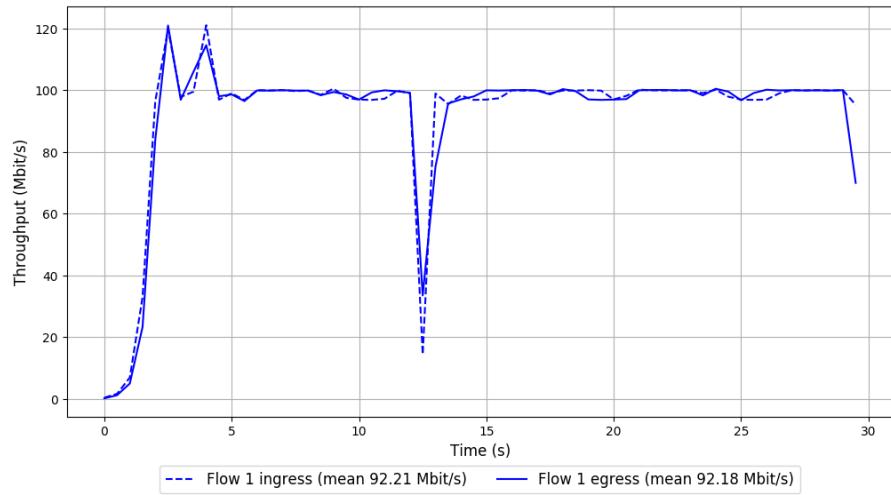
Run 3: Statistics of TCP BBR

Start at: 2017-09-17 21:24:58

End at: 2017-09-17 21:25:28

```
# Below is generated by plot.py at 2017-09-18 01:08:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 112.881 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 92.18 Mbit/s
95th percentile per-packet one-way delay: 112.881 ms
Loss rate: 0.78%
```

Run 3: Report of TCP BBR — Data Link



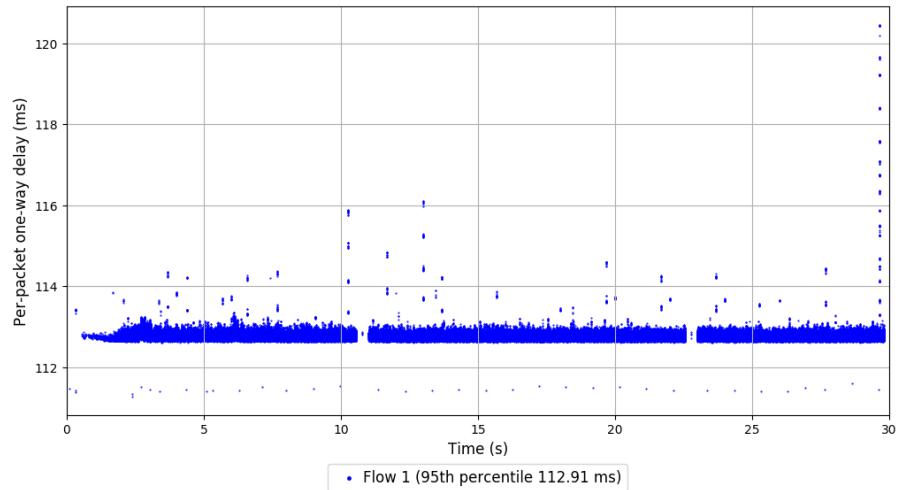
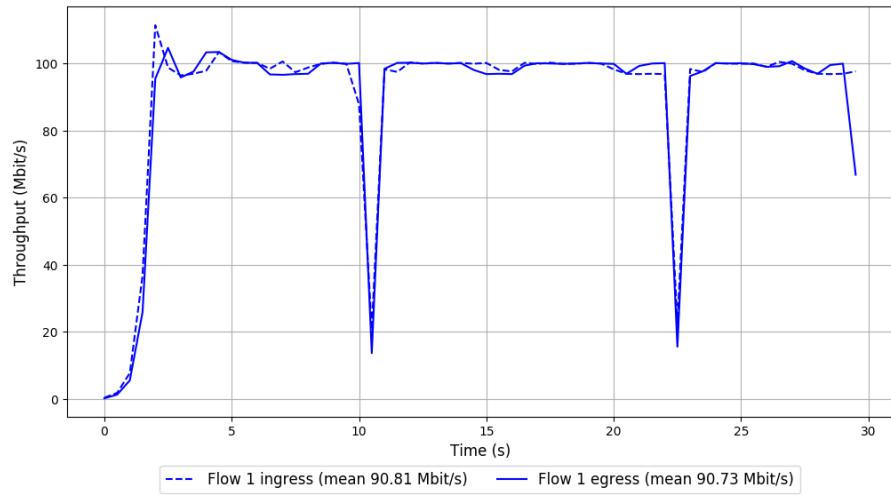
Run 4: Statistics of TCP BBR

Start at: 2017-09-17 21:36:59

End at: 2017-09-17 21:37:29

```
# Below is generated by plot.py at 2017-09-18 01:08:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 112.907 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 90.73 Mbit/s
95th percentile per-packet one-way delay: 112.907 ms
Loss rate: 0.91%
```

Run 4: Report of TCP BBR — Data Link



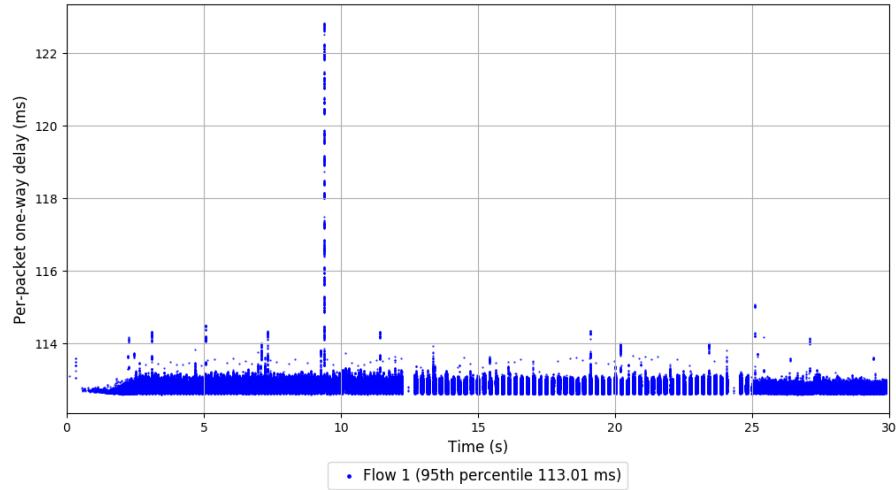
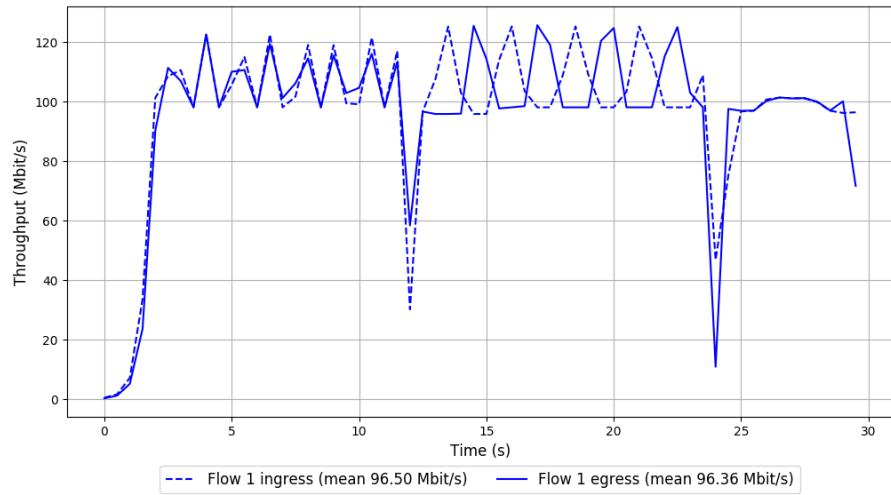
Run 5: Statistics of TCP BBR

Start at: 2017-09-17 21:48:52

End at: 2017-09-17 21:49:22

```
# Below is generated by plot.py at 2017-09-18 01:08:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 113.009 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 96.36 Mbit/s
95th percentile per-packet one-way delay: 113.009 ms
Loss rate: 0.78%
```

Run 5: Report of TCP BBR — Data Link



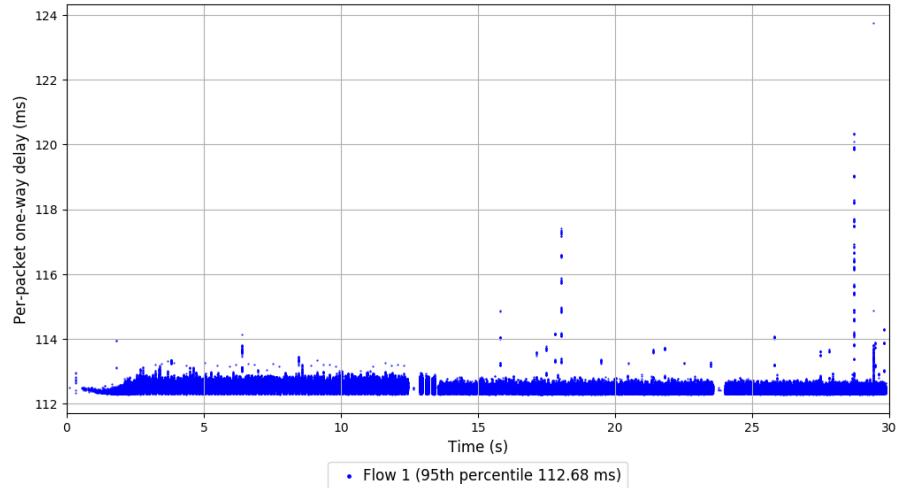
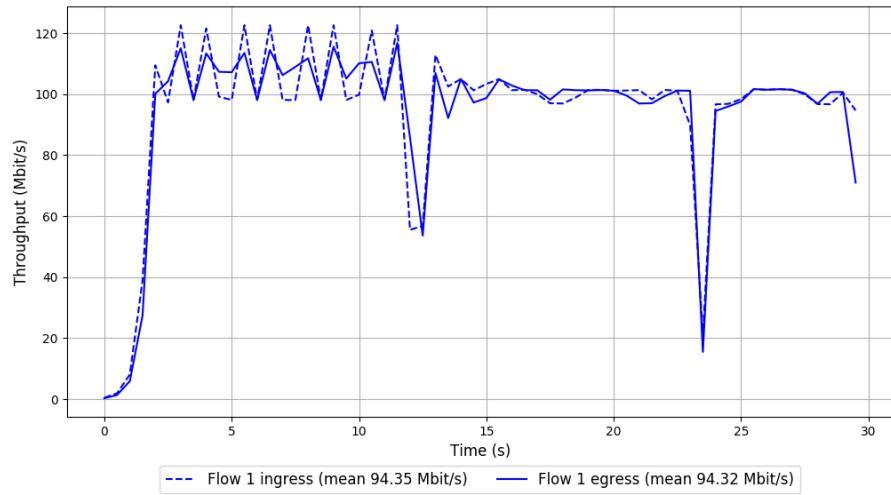
Run 6: Statistics of TCP BBR

Start at: 2017-09-17 22:01:01

End at: 2017-09-17 22:01:31

```
# Below is generated by plot.py at 2017-09-18 01:08:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 112.684 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 94.32 Mbit/s
95th percentile per-packet one-way delay: 112.684 ms
Loss rate: 0.77%
```

Run 6: Report of TCP BBR — Data Link



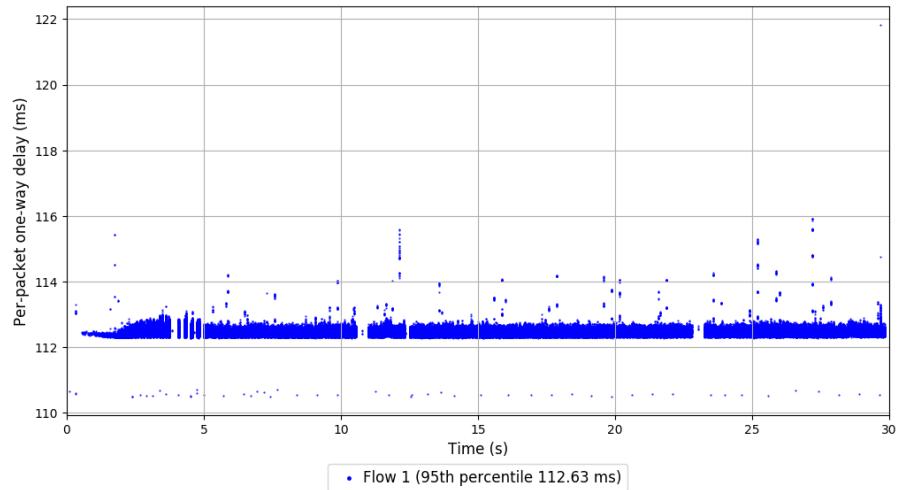
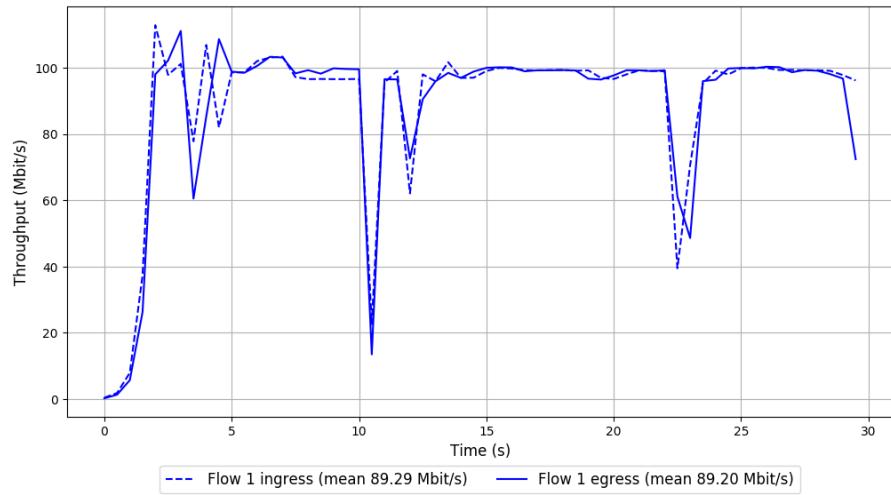
Run 7: Statistics of TCP BBR

Start at: 2017-09-17 22:13:03

End at: 2017-09-17 22:13:33

```
# Below is generated by plot.py at 2017-09-18 01:08:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 112.631 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 89.20 Mbit/s
95th percentile per-packet one-way delay: 112.631 ms
Loss rate: 0.90%
```

Run 7: Report of TCP BBR — Data Link



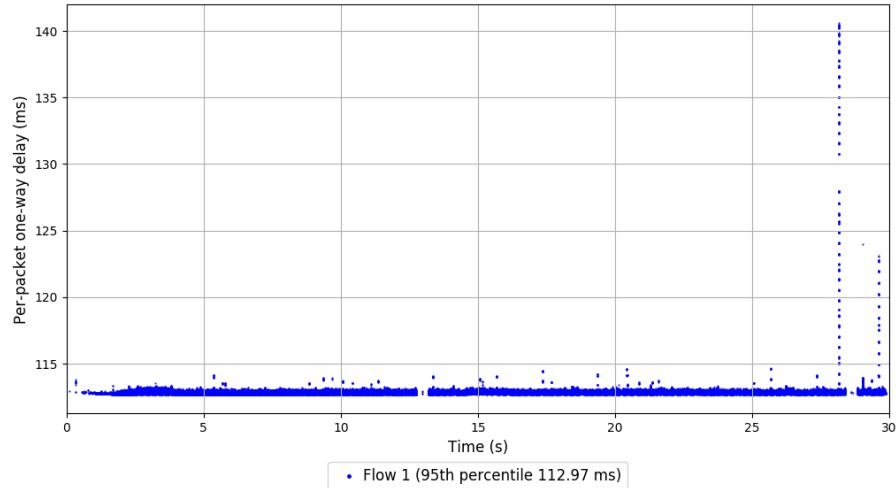
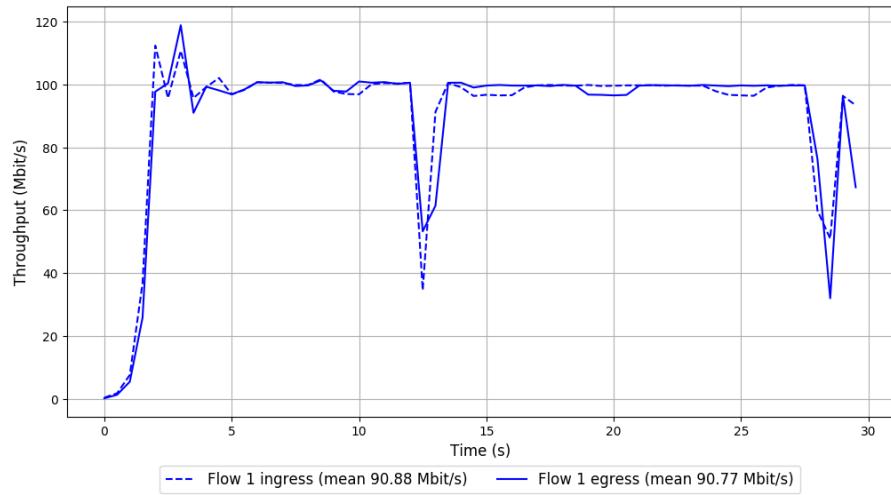
Run 8: Statistics of TCP BBR

Start at: 2017-09-17 22:25:01

End at: 2017-09-17 22:25:31

```
# Below is generated by plot.py at 2017-09-18 01:08:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 112.965 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 90.77 Mbit/s
95th percentile per-packet one-way delay: 112.965 ms
Loss rate: 0.83%
```

Run 8: Report of TCP BBR — Data Link



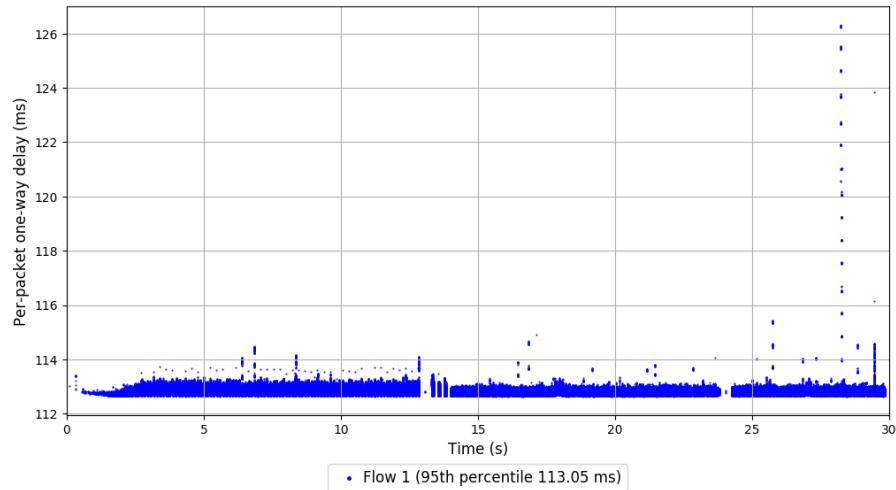
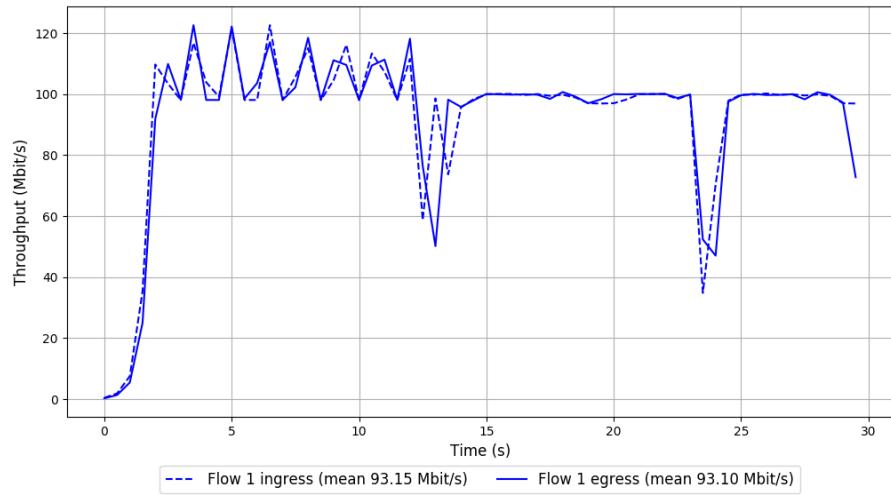
Run 9: Statistics of TCP BBR

Start at: 2017-09-17 22:37:14

End at: 2017-09-17 22:37:44

```
# Below is generated by plot.py at 2017-09-18 01:09:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.10 Mbit/s
95th percentile per-packet one-way delay: 113.050 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 93.10 Mbit/s
95th percentile per-packet one-way delay: 113.050 ms
Loss rate: 0.87%
```

Run 9: Report of TCP BBR — Data Link



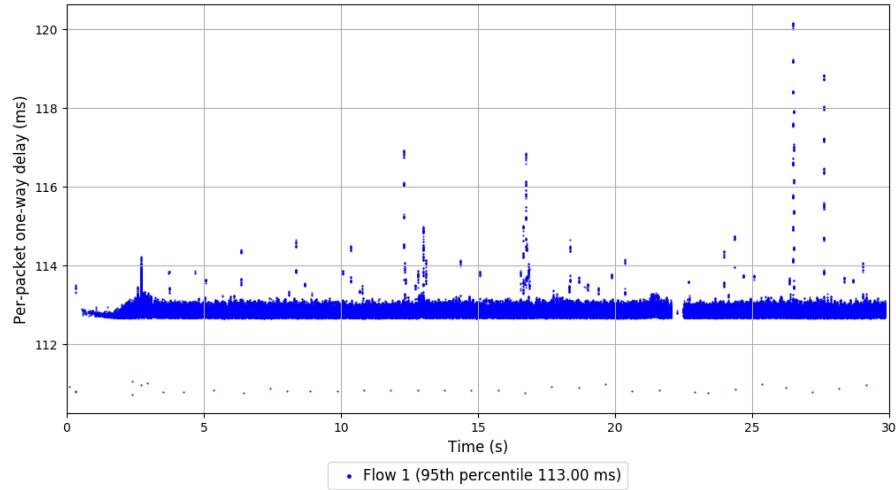
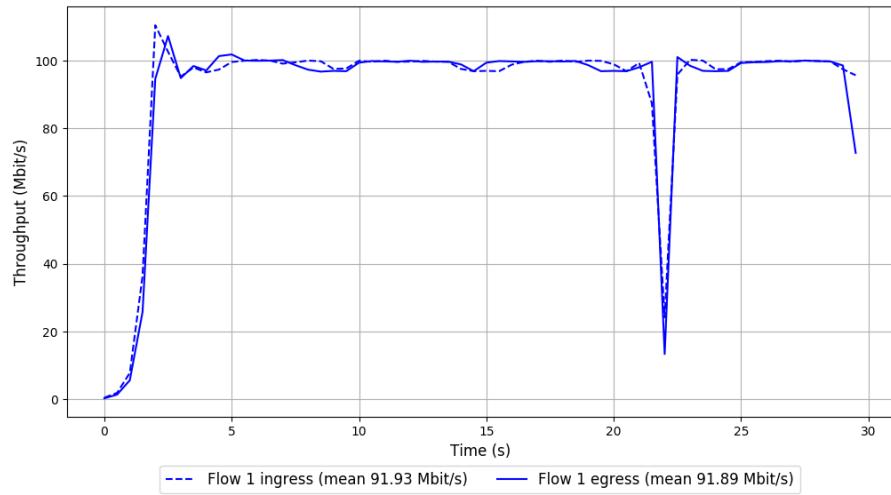
Run 10: Statistics of TCP BBR

Start at: 2017-09-17 22:49:10

End at: 2017-09-17 22:49:40

```
# Below is generated by plot.py at 2017-09-18 01:09:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.89 Mbit/s
95th percentile per-packet one-way delay: 112.996 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 91.89 Mbit/s
95th percentile per-packet one-way delay: 112.996 ms
Loss rate: 0.86%
```

Run 10: Report of TCP BBR — Data Link

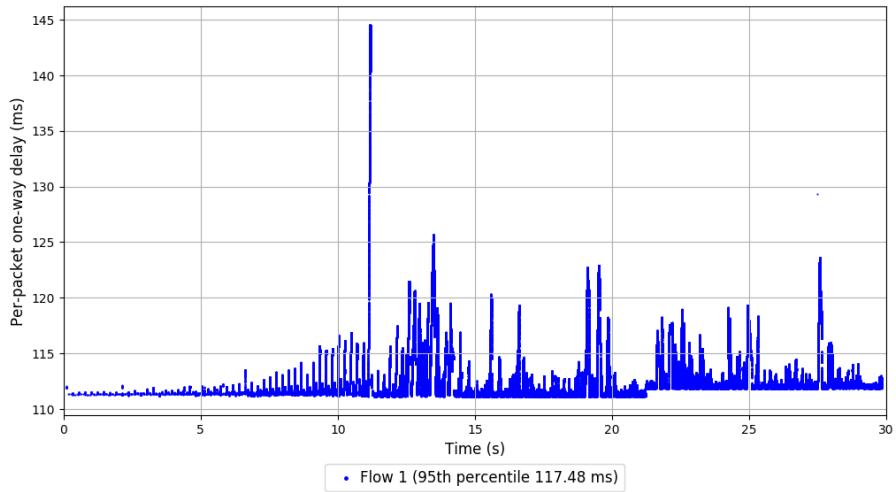
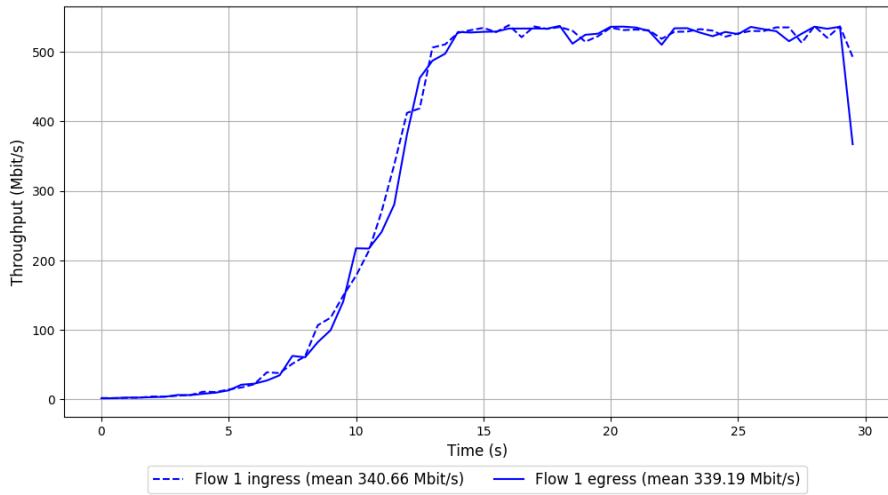


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-09-17 20:54:30
End at: 2017-09-17 20:55:00

# Below is generated by plot.py at 2017-09-18 01:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 339.19 Mbit/s
95th percentile per-packet one-way delay: 117.476 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 339.19 Mbit/s
95th percentile per-packet one-way delay: 117.476 ms
Loss rate: 1.18%
```

Run 1: Report of CalibratedKoho — Data Link



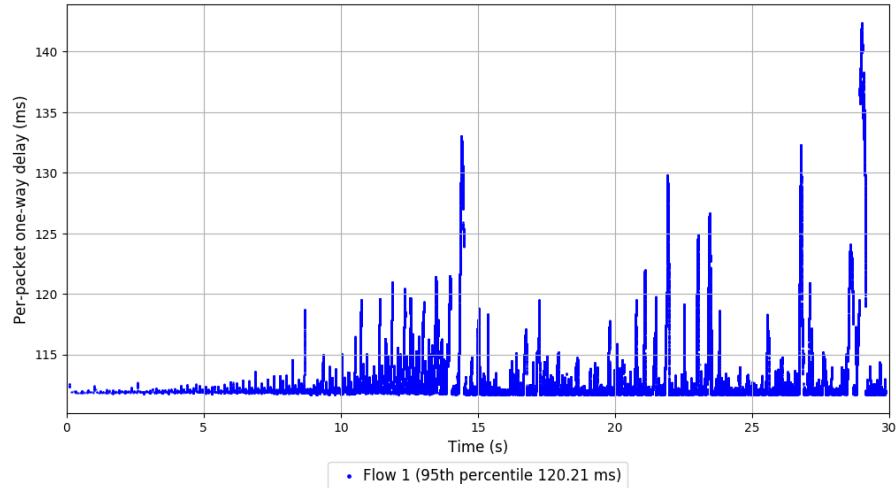
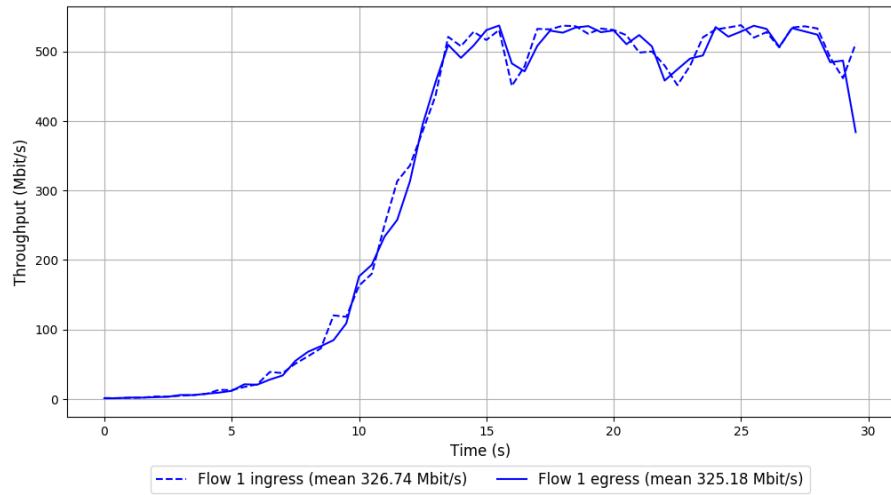
Run 2: Statistics of CalibratedKoho

Start at: 2017-09-17 21:06:39

End at: 2017-09-17 21:07:09

```
# Below is generated by plot.py at 2017-09-18 01:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.18 Mbit/s
95th percentile per-packet one-way delay: 120.211 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 325.18 Mbit/s
95th percentile per-packet one-way delay: 120.211 ms
Loss rate: 1.23%
```

Run 2: Report of CalibratedKoho — Data Link



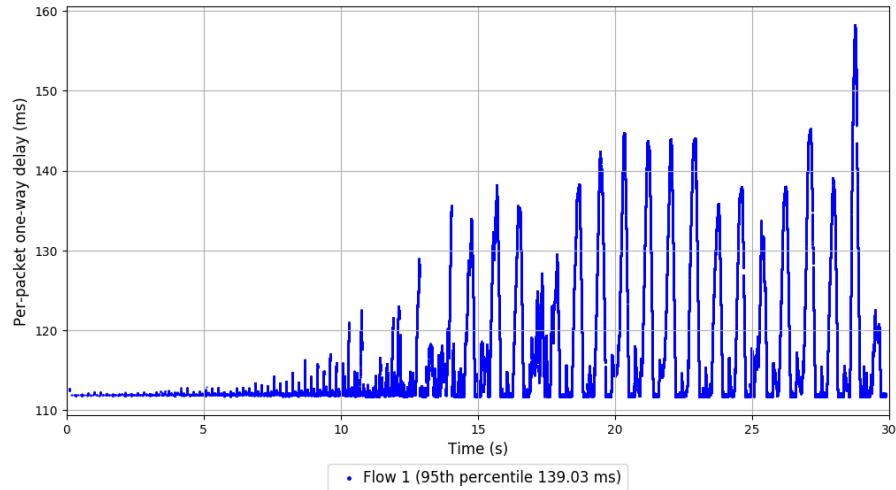
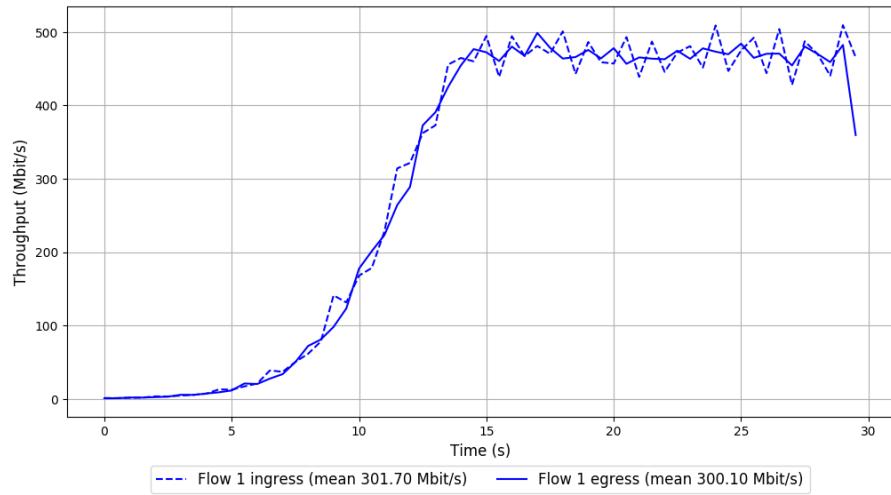
Run 3: Statistics of CalibratedKoho

Start at: 2017-09-17 21:18:32

End at: 2017-09-17 21:19:02

```
# Below is generated by plot.py at 2017-09-18 01:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 300.10 Mbit/s
95th percentile per-packet one-way delay: 139.033 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 300.10 Mbit/s
95th percentile per-packet one-way delay: 139.033 ms
Loss rate: 1.27%
```

Run 3: Report of CalibratedKoho — Data Link



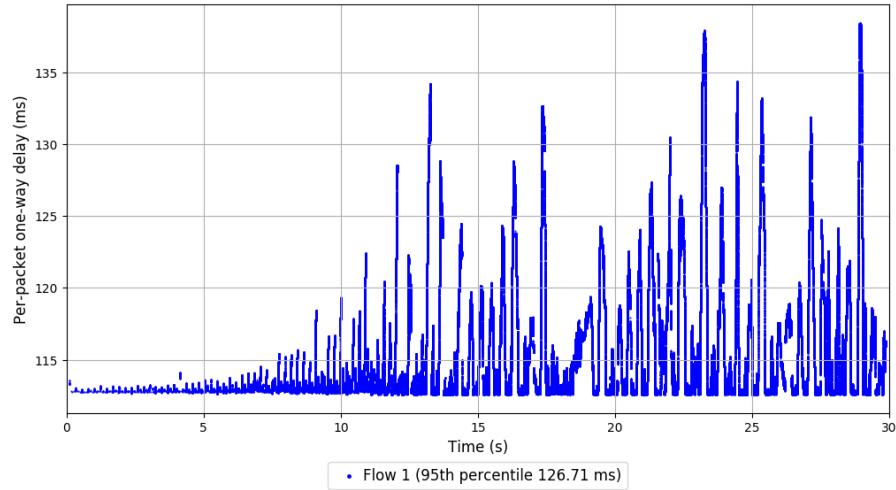
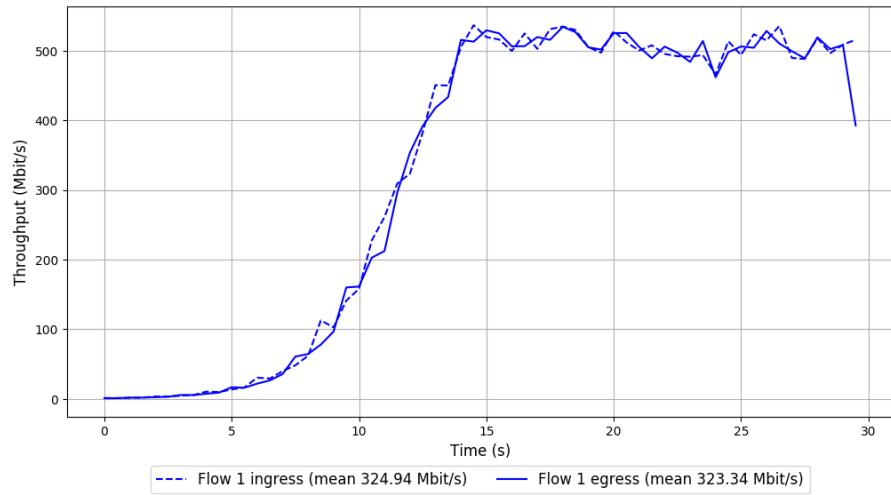
Run 4: Statistics of CalibratedKoho

Start at: 2017-09-17 21:30:25

End at: 2017-09-17 21:30:55

```
# Below is generated by plot.py at 2017-09-18 01:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 323.34 Mbit/s
95th percentile per-packet one-way delay: 126.712 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 323.34 Mbit/s
95th percentile per-packet one-way delay: 126.712 ms
Loss rate: 1.23%
```

Run 4: Report of CalibratedKoho — Data Link



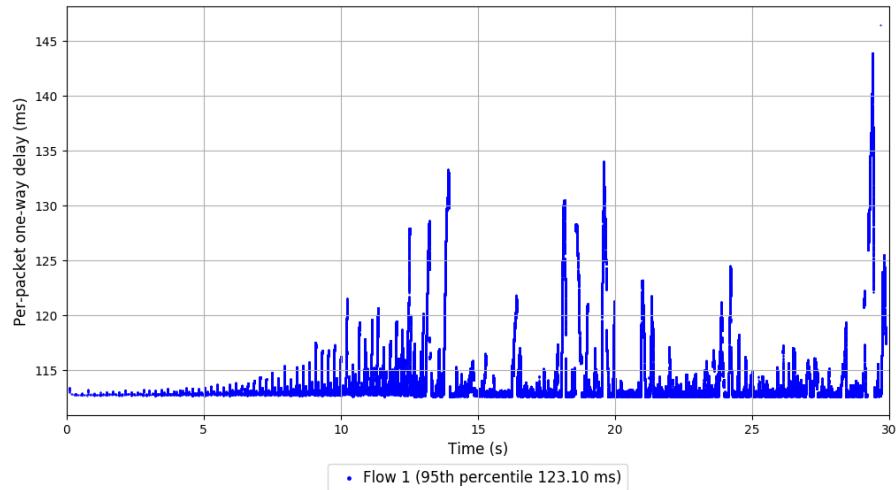
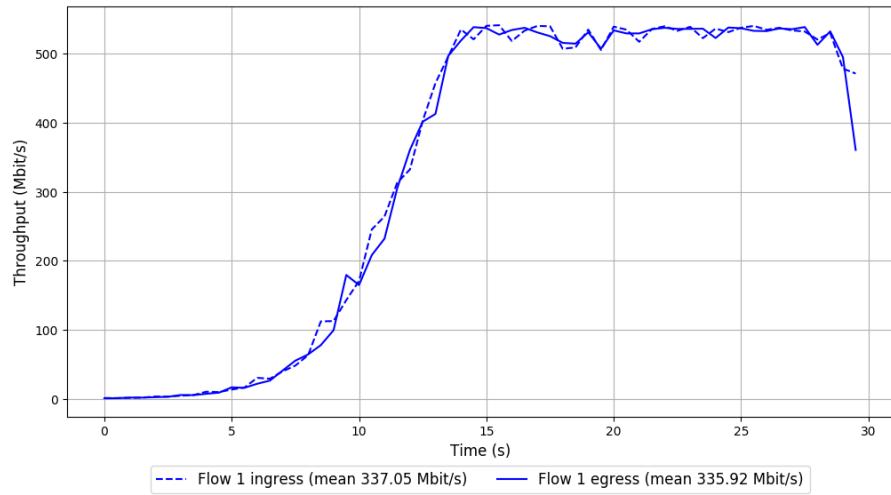
Run 5: Statistics of CalibratedKoho

Start at: 2017-09-17 21:42:24

End at: 2017-09-17 21:42:54

```
# Below is generated by plot.py at 2017-09-18 01:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 335.92 Mbit/s
95th percentile per-packet one-way delay: 123.099 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 335.92 Mbit/s
95th percentile per-packet one-way delay: 123.099 ms
Loss rate: 1.08%
```

Run 5: Report of CalibratedKoho — Data Link



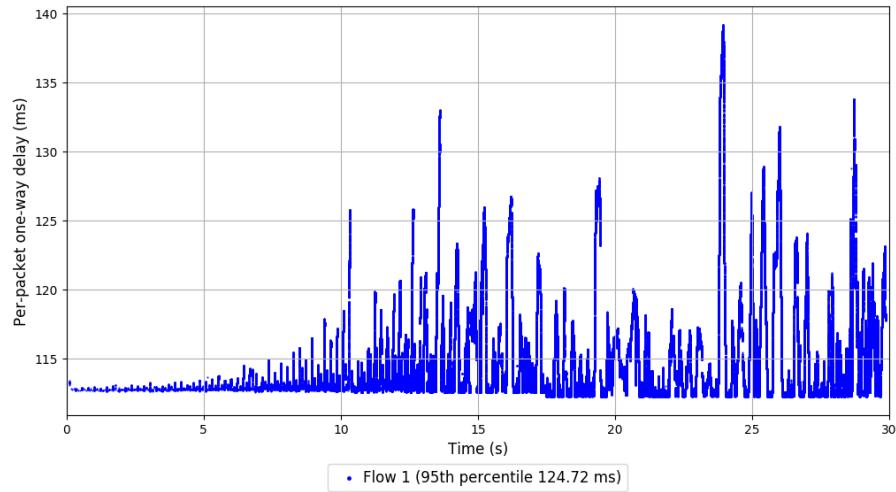
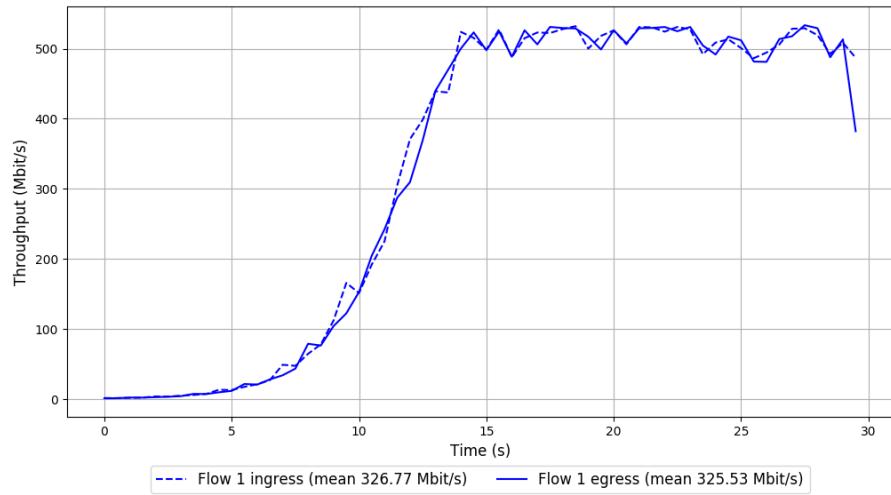
Run 6: Statistics of CalibratedKoho

Start at: 2017-09-17 21:54:32

End at: 2017-09-17 21:55:02

```
# Below is generated by plot.py at 2017-09-18 01:14:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 325.53 Mbit/s
95th percentile per-packet one-way delay: 124.719 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 325.53 Mbit/s
95th percentile per-packet one-way delay: 124.719 ms
Loss rate: 1.13%
```

Run 6: Report of CalibratedKoho — Data Link



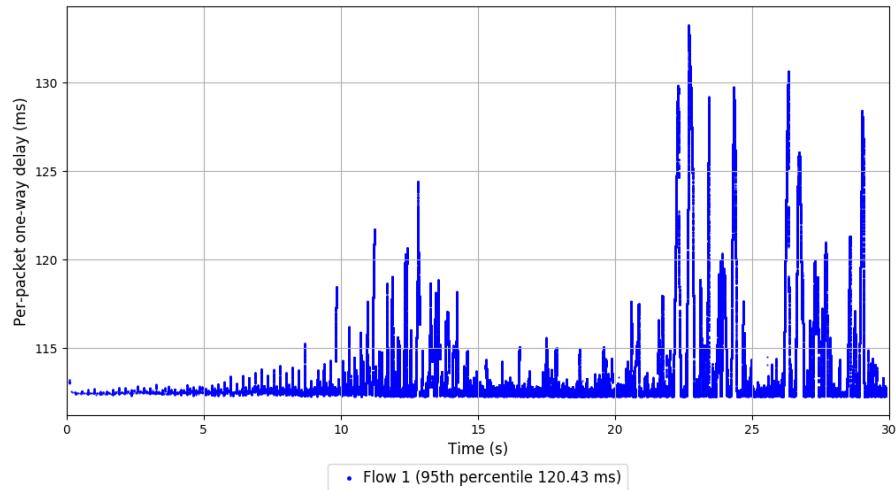
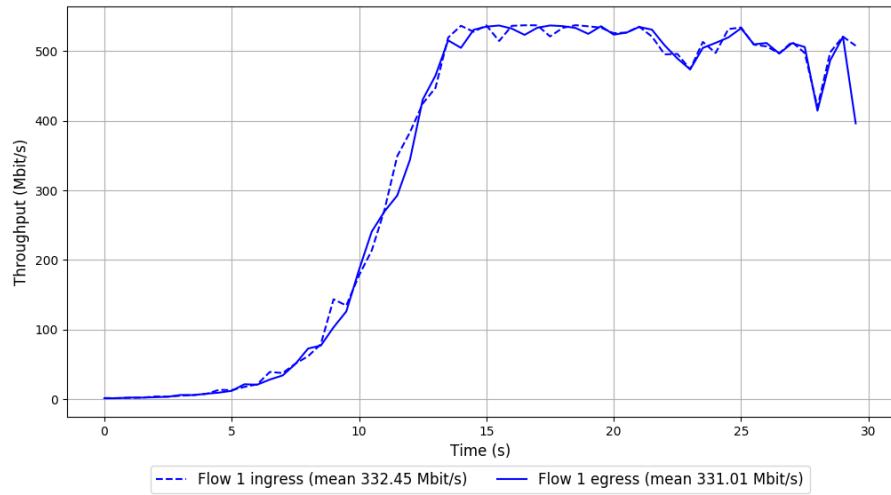
Run 7: Statistics of CalibratedKoho

Start at: 2017-09-17 22:06:33

End at: 2017-09-17 22:07:03

```
# Below is generated by plot.py at 2017-09-18 01:15:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 331.01 Mbit/s
95th percentile per-packet one-way delay: 120.429 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 331.01 Mbit/s
95th percentile per-packet one-way delay: 120.429 ms
Loss rate: 1.18%
```

Run 7: Report of CalibratedKoho — Data Link



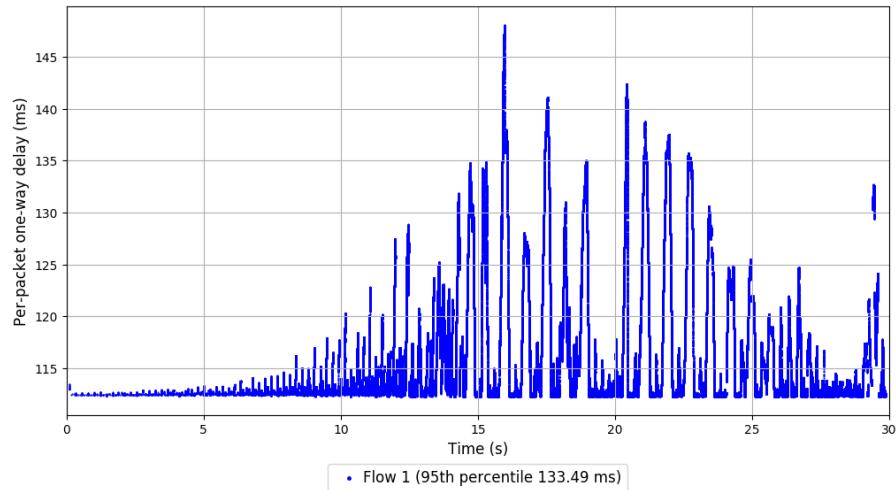
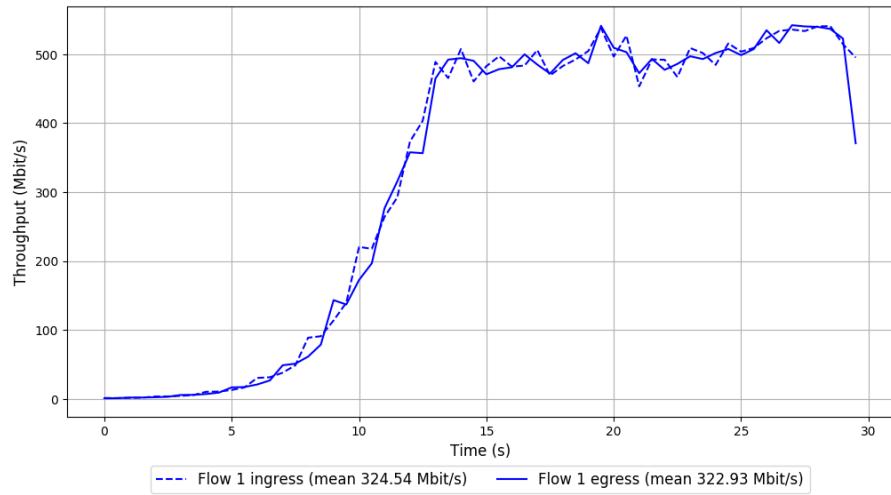
Run 8: Statistics of CalibratedKoho

Start at: 2017-09-17 22:18:46

End at: 2017-09-17 22:19:16

```
# Below is generated by plot.py at 2017-09-18 01:15:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.93 Mbit/s
95th percentile per-packet one-way delay: 133.493 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 322.93 Mbit/s
95th percentile per-packet one-way delay: 133.493 ms
Loss rate: 1.23%
```

Run 8: Report of CalibratedKoho — Data Link



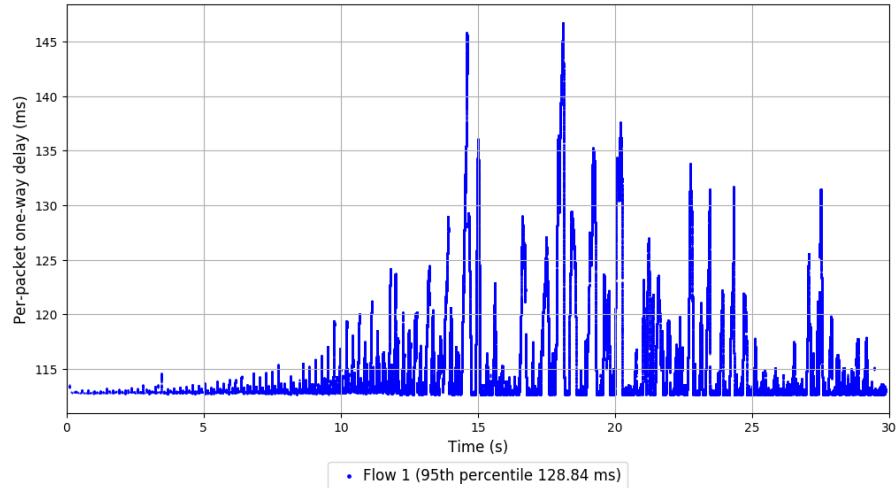
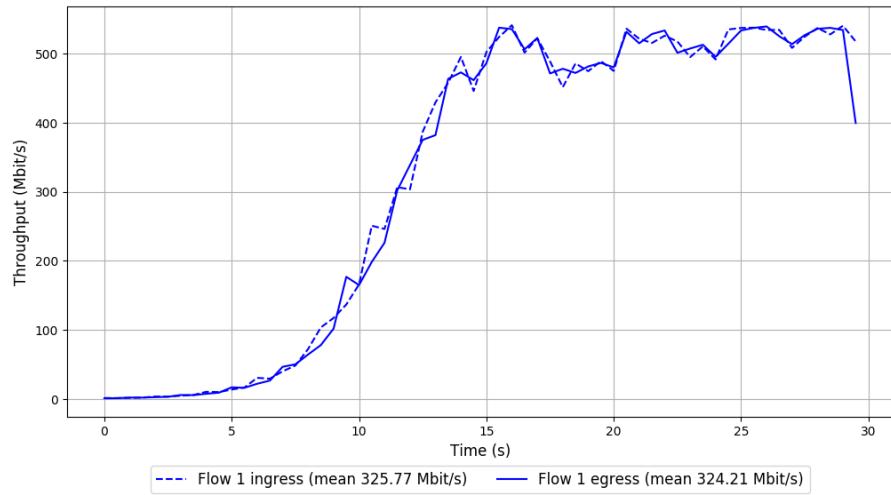
Run 9: Statistics of CalibratedKoho

Start at: 2017-09-17 22:30:43

End at: 2017-09-17 22:31:13

```
# Below is generated by plot.py at 2017-09-18 01:18:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.21 Mbit/s
95th percentile per-packet one-way delay: 128.844 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 324.21 Mbit/s
95th percentile per-packet one-way delay: 128.844 ms
Loss rate: 1.23%
```

Run 9: Report of CalibratedKoho — Data Link



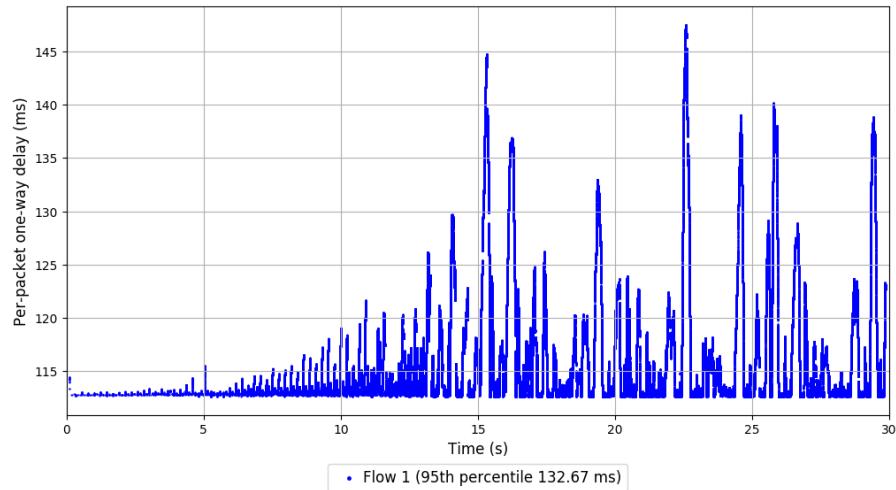
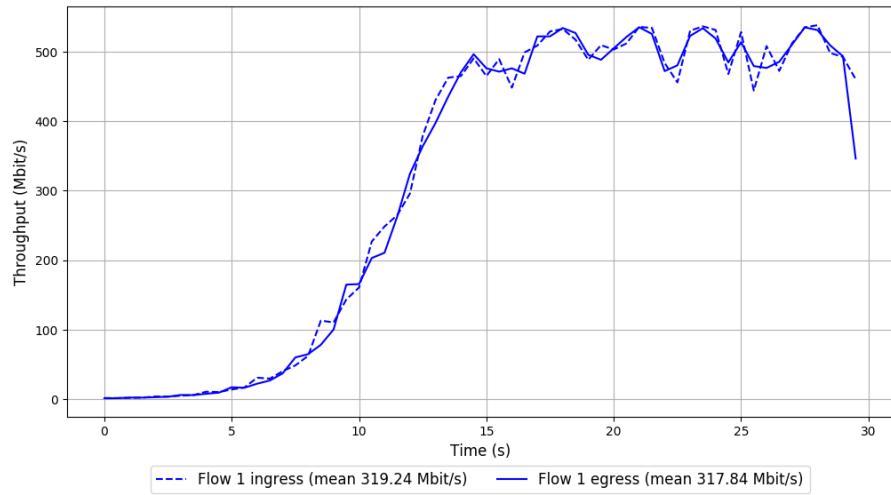
```
Run 10: Statistics of CalibratedKoho
```

```
Start at: 2017-09-17 22:42:38
```

```
End at: 2017-09-17 22:43:08
```

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 317.84 Mbit/s
95th percentile per-packet one-way delay: 132.674 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 317.84 Mbit/s
95th percentile per-packet one-way delay: 132.674 ms
Loss rate: 1.18%
```

Run 10: Report of CalibratedKoho — Data Link



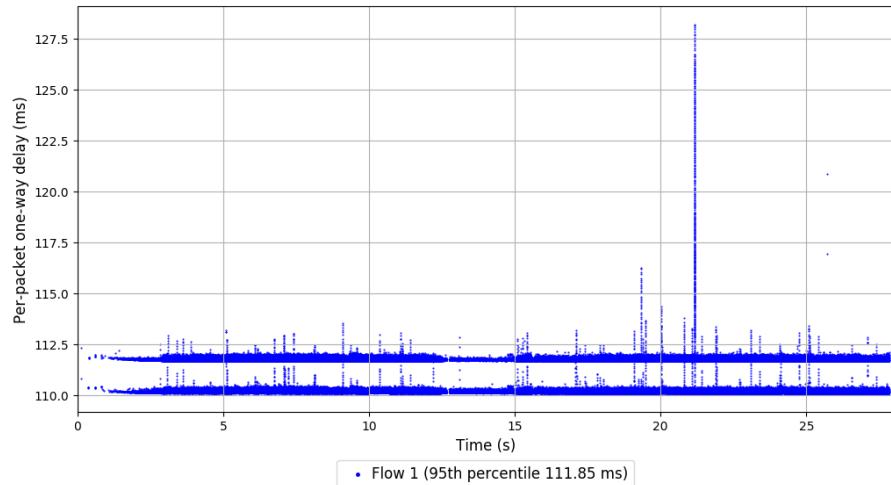
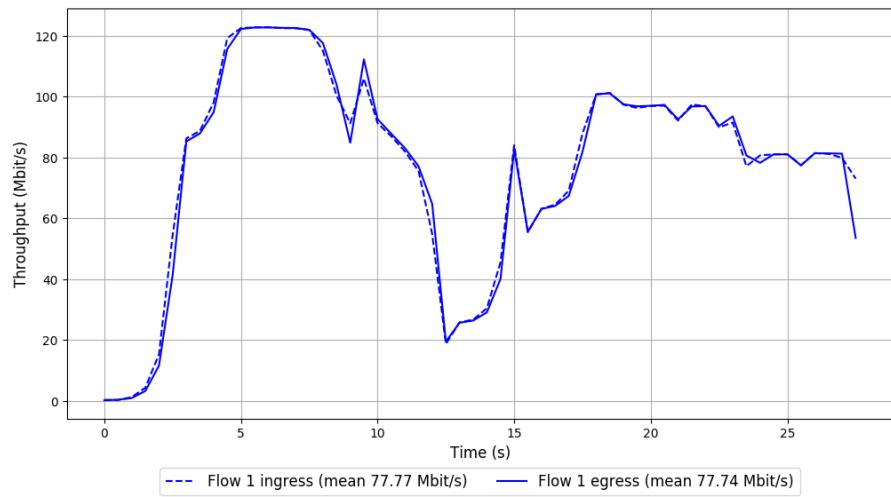
Run 1: Statistics of Copa

Start at: 2017-09-17 20:58:36

End at: 2017-09-17 20:59:06

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.74 Mbit/s
95th percentile per-packet one-way delay: 111.849 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 77.74 Mbit/s
95th percentile per-packet one-way delay: 111.849 ms
Loss rate: 0.83%
```

Run 1: Report of Copa — Data Link



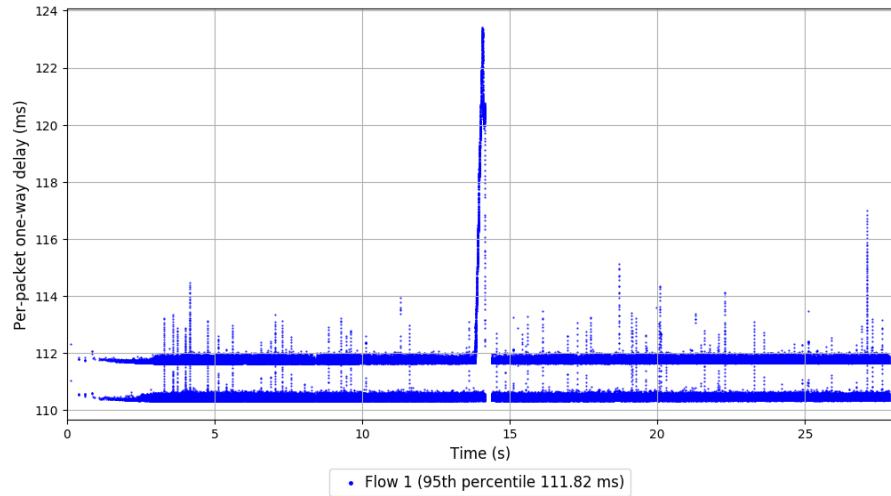
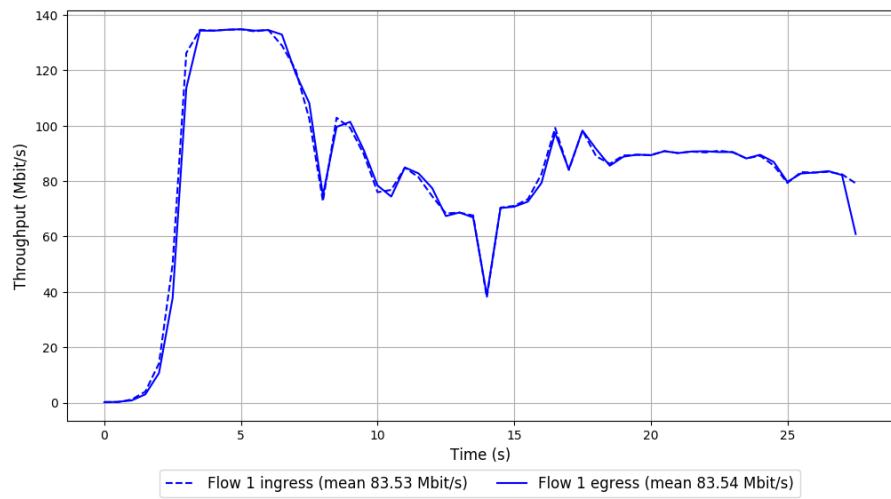
Run 2: Statistics of Copa

Start at: 2017-09-17 21:10:45

End at: 2017-09-17 21:11:16

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 111.819 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 83.54 Mbit/s
95th percentile per-packet one-way delay: 111.819 ms
Loss rate: 0.79%
```

Run 2: Report of Copa — Data Link



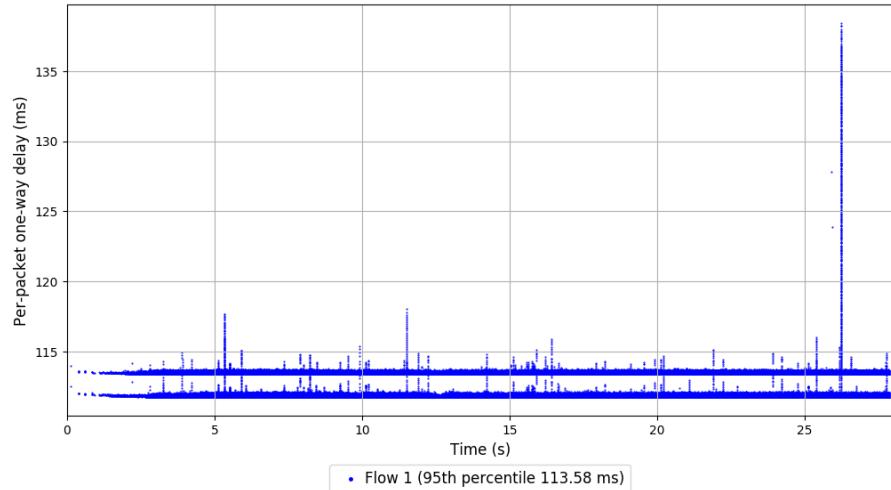
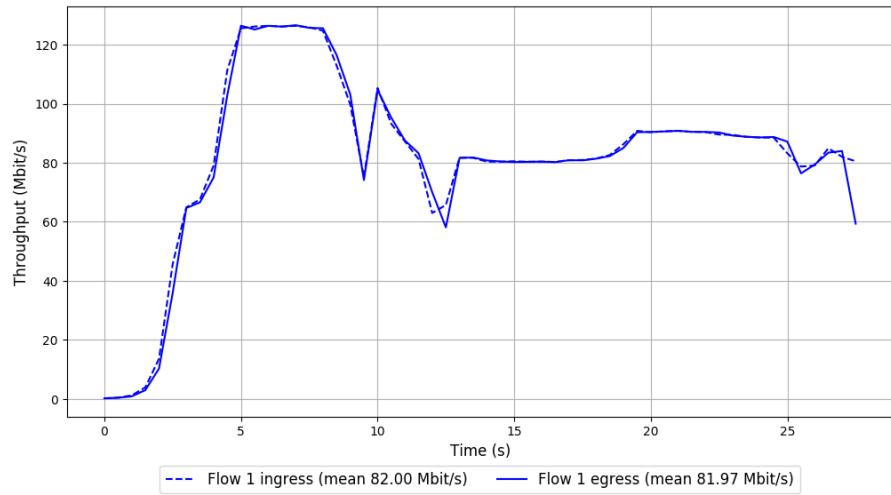
Run 3: Statistics of Copa

Start at: 2017-09-17 21:22:31

End at: 2017-09-17 21:23:01

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.97 Mbit/s
95th percentile per-packet one-way delay: 113.577 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 81.97 Mbit/s
95th percentile per-packet one-way delay: 113.577 ms
Loss rate: 0.83%
```

Run 3: Report of Copa — Data Link



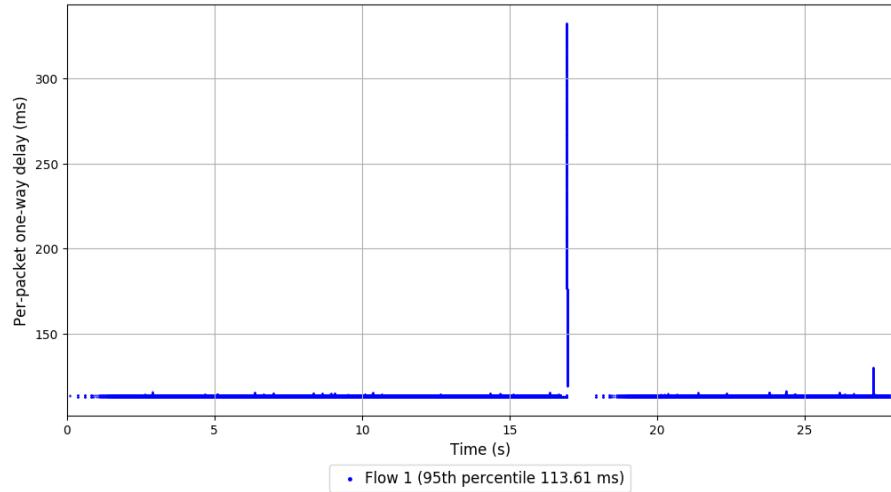
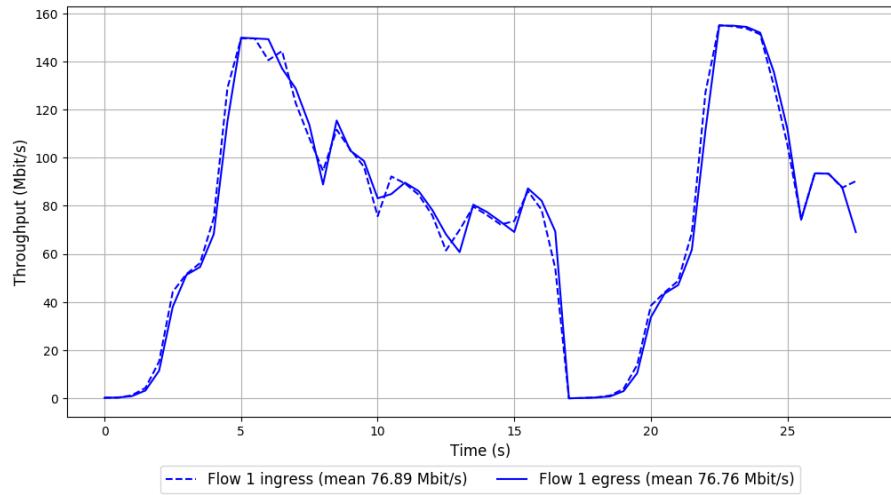
Run 4: Statistics of Copa

Start at: 2017-09-17 21:34:30

End at: 2017-09-17 21:35:00

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 113.613 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 113.613 ms
Loss rate: 0.98%
```

Run 4: Report of Copa — Data Link



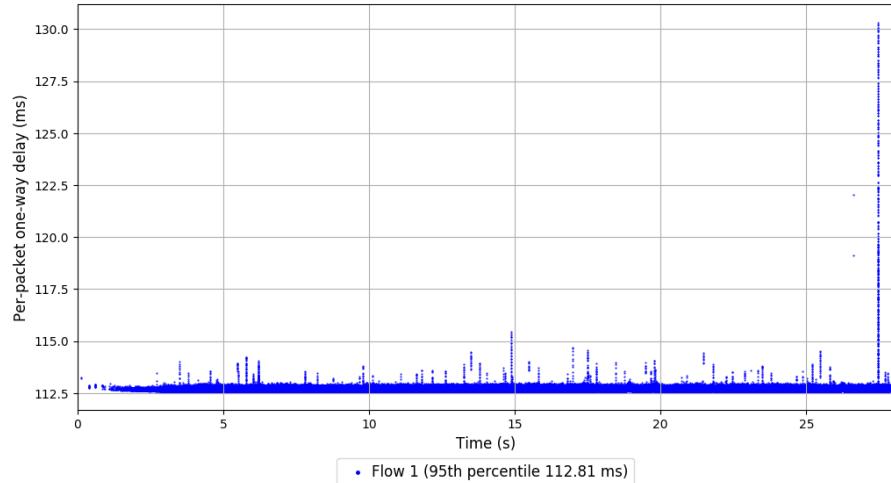
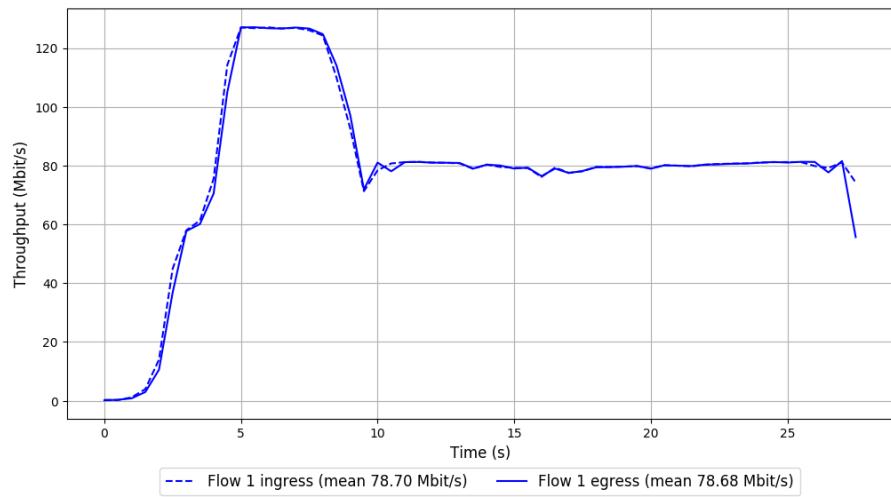
Run 5: Statistics of Copa

Start at: 2017-09-17 21:46:25

End at: 2017-09-17 21:46:55

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.68 Mbit/s
95th percentile per-packet one-way delay: 112.810 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 78.68 Mbit/s
95th percentile per-packet one-way delay: 112.810 ms
Loss rate: 0.83%
```

Run 5: Report of Copa — Data Link

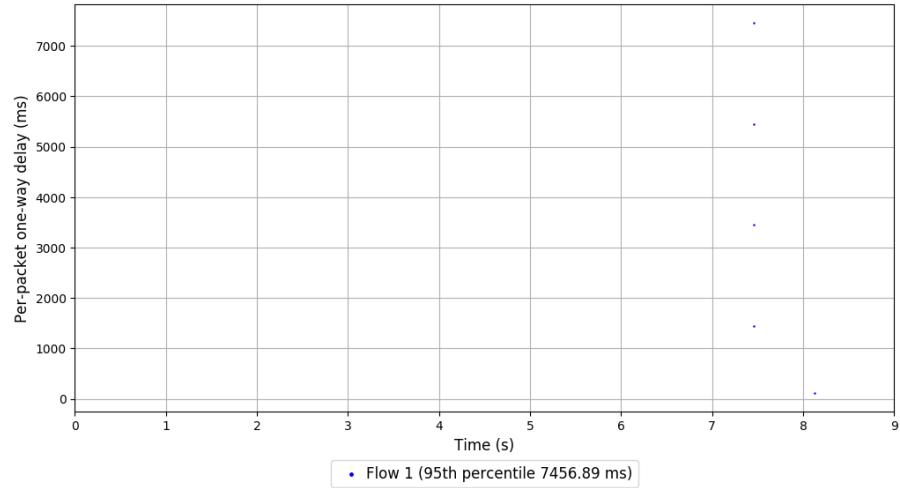
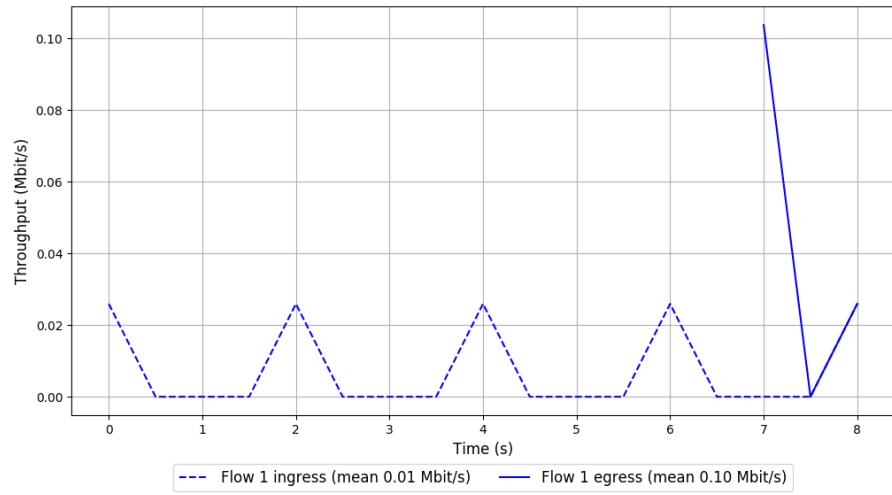


Run 6: Statistics of Copa

Start at: 2017-09-17 21:58:39

End at: 2017-09-17 21:59:09

Run 6: Report of Copa — Data Link



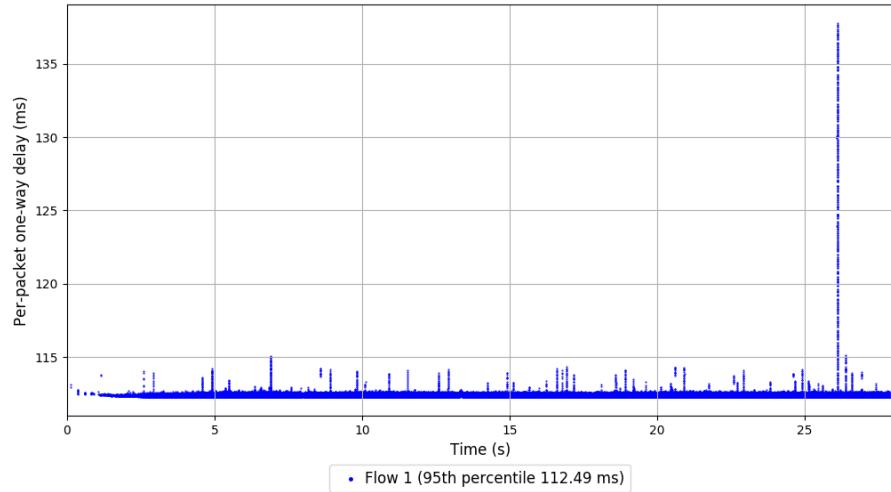
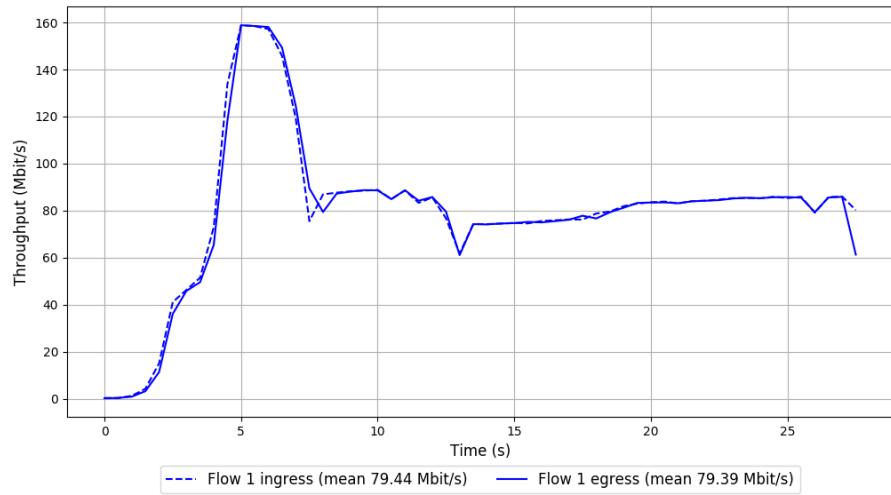
Run 7: Statistics of Copa

Start at: 2017-09-17 22:10:38

End at: 2017-09-17 22:11:08

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.39 Mbit/s
95th percentile per-packet one-way delay: 112.494 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 79.39 Mbit/s
95th percentile per-packet one-way delay: 112.494 ms
Loss rate: 0.86%
```

Run 7: Report of Copa — Data Link

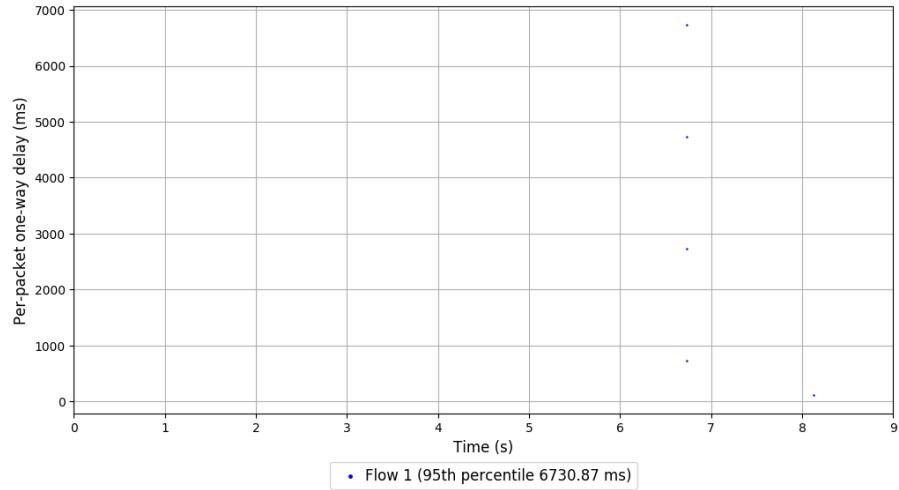
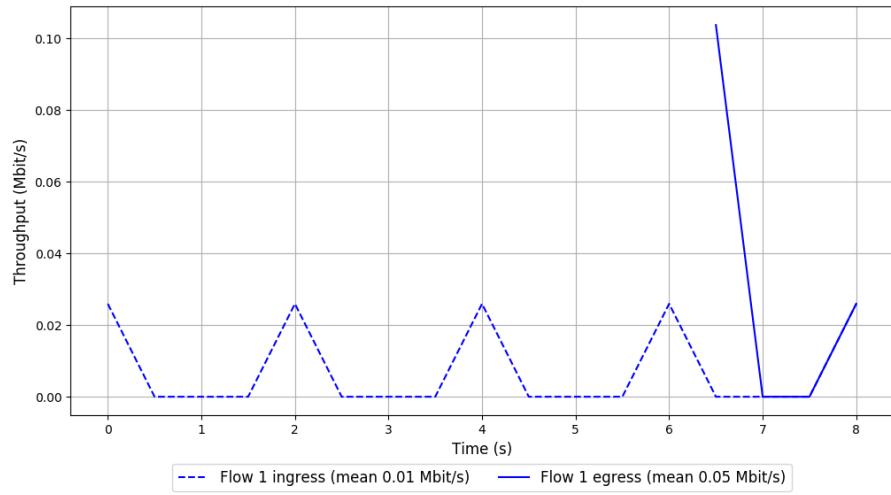


Run 8: Statistics of Copa

Start at: 2017-09-17 22:22:51

End at: 2017-09-17 22:23:21

Run 8: Report of Copa — Data Link



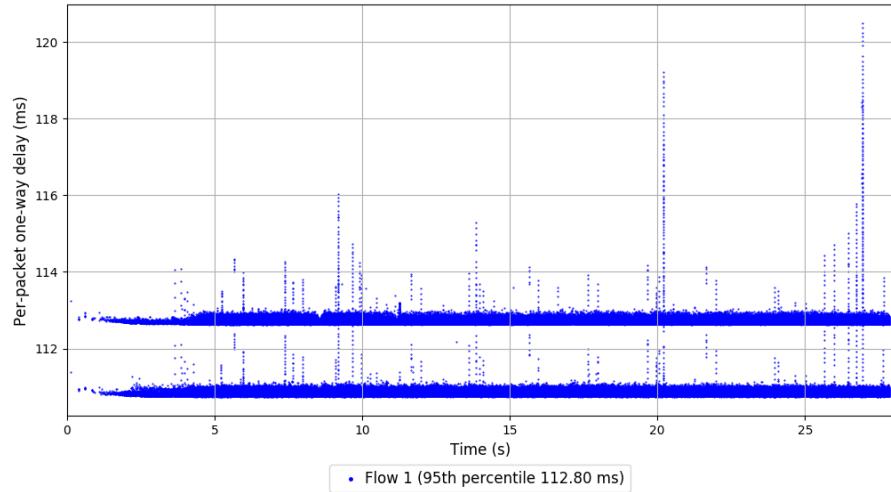
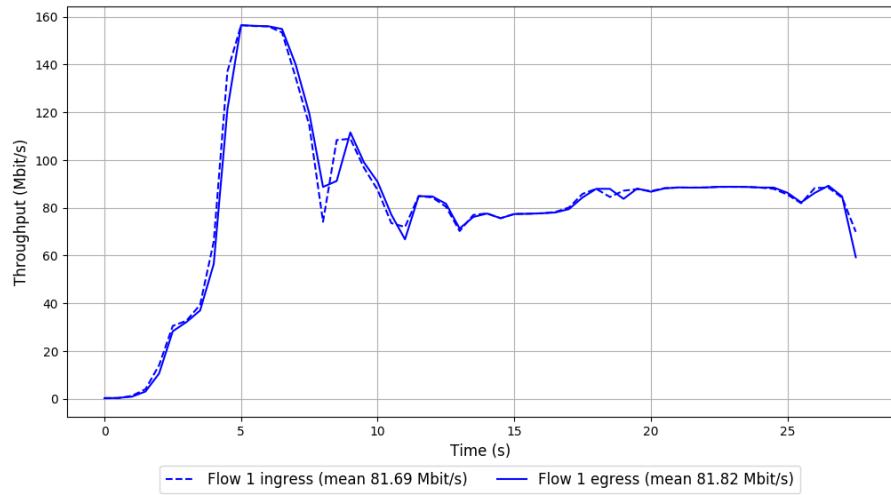
Run 9: Statistics of Copa

Start at: 2017-09-17 22:34:49

End at: 2017-09-17 22:35:19

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.82 Mbit/s
95th percentile per-packet one-way delay: 112.800 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 81.82 Mbit/s
95th percentile per-packet one-way delay: 112.800 ms
Loss rate: 0.65%
```

Run 9: Report of Copa — Data Link



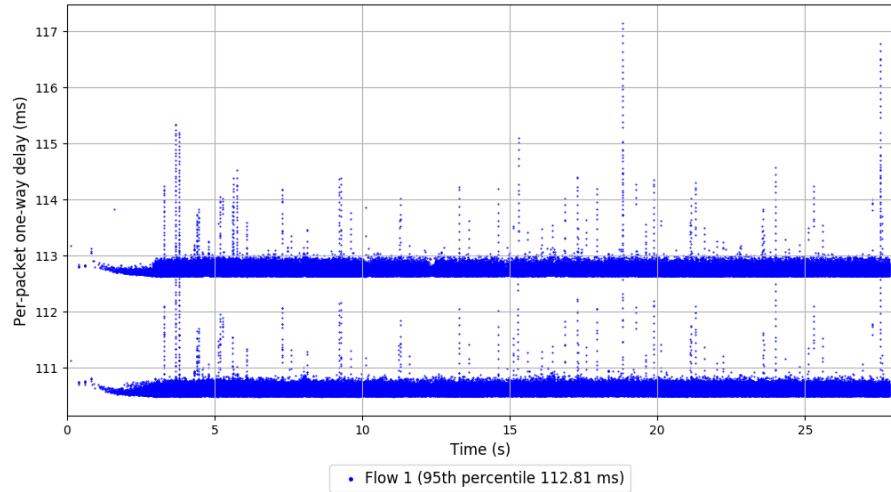
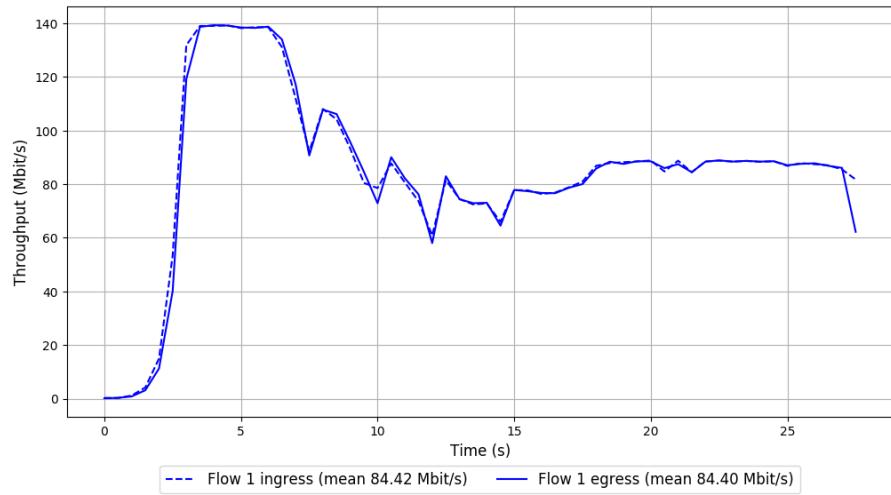
Run 10: Statistics of Copa

Start at: 2017-09-17 22:46:43

End at: 2017-09-17 22:47:13

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.40 Mbit/s
95th percentile per-packet one-way delay: 112.815 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 84.40 Mbit/s
95th percentile per-packet one-way delay: 112.815 ms
Loss rate: 0.82%
```

Run 10: Report of Copa — Data Link



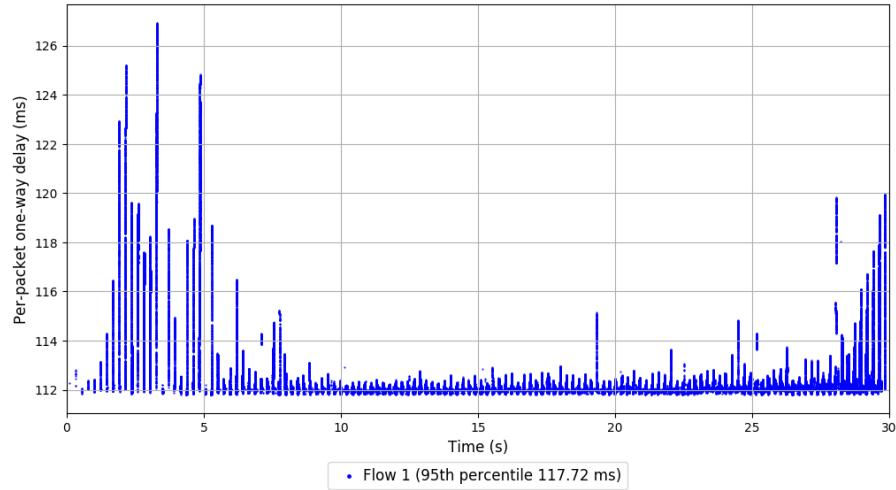
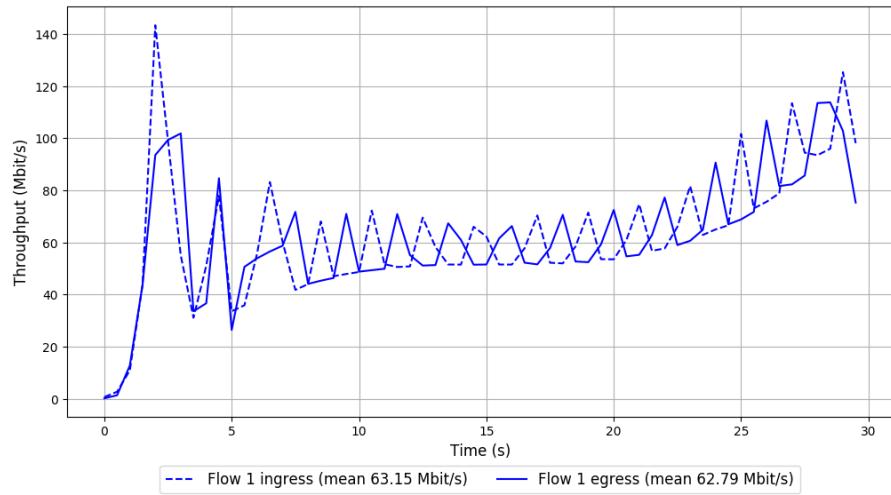
```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2017-09-17 20:55:36
```

```
End at: 2017-09-17 20:56:06
```

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 117.724 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 62.79 Mbit/s
95th percentile per-packet one-way delay: 117.724 ms
Loss rate: 1.29%
```

Run 1: Report of TCP Cubic — Data Link



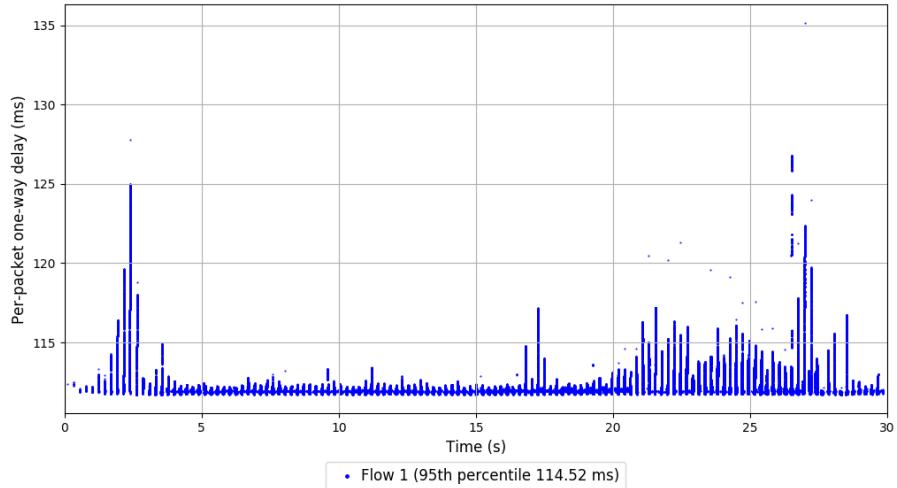
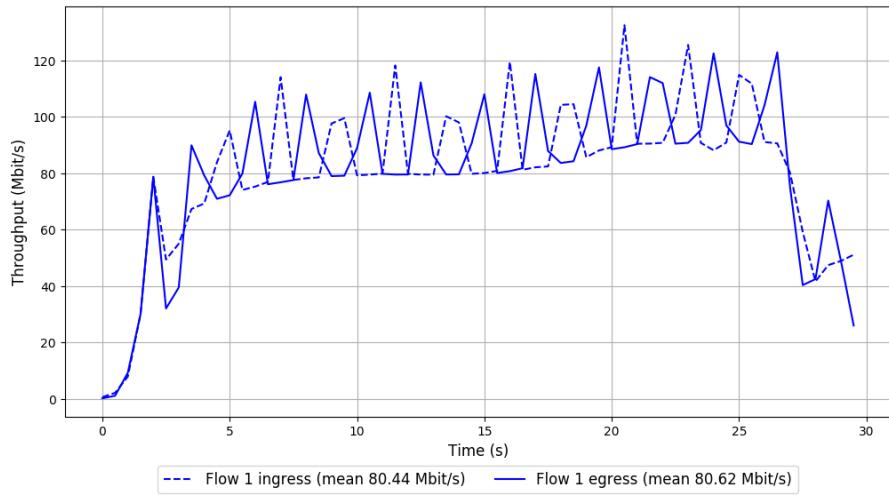
Run 2: Statistics of TCP Cubic

Start at: 2017-09-17 21:07:43

End at: 2017-09-17 21:08:13

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.62 Mbit/s
95th percentile per-packet one-way delay: 114.520 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 80.62 Mbit/s
95th percentile per-packet one-way delay: 114.520 ms
Loss rate: 0.52%
```

Run 2: Report of TCP Cubic — Data Link

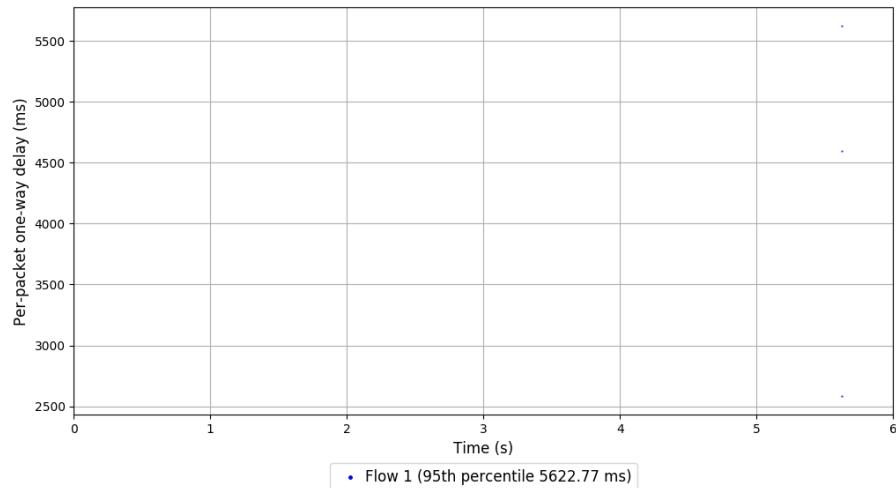
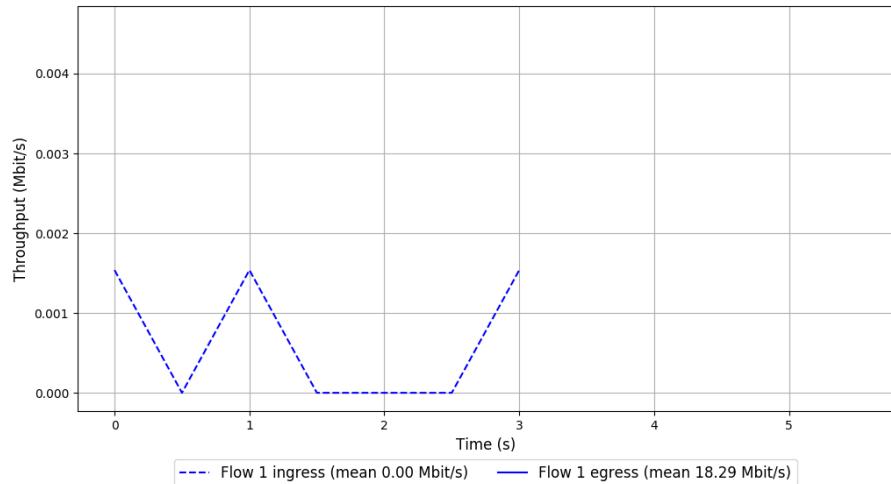


Run 3: Statistics of TCP Cubic

Start at: 2017-09-17 21:19:35

End at: 2017-09-17 21:20:05

Run 3: Report of TCP Cubic — Data Link



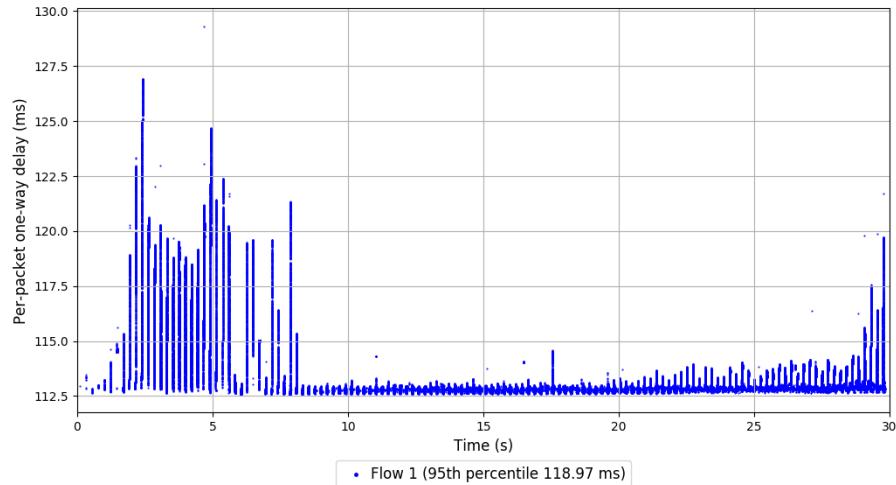
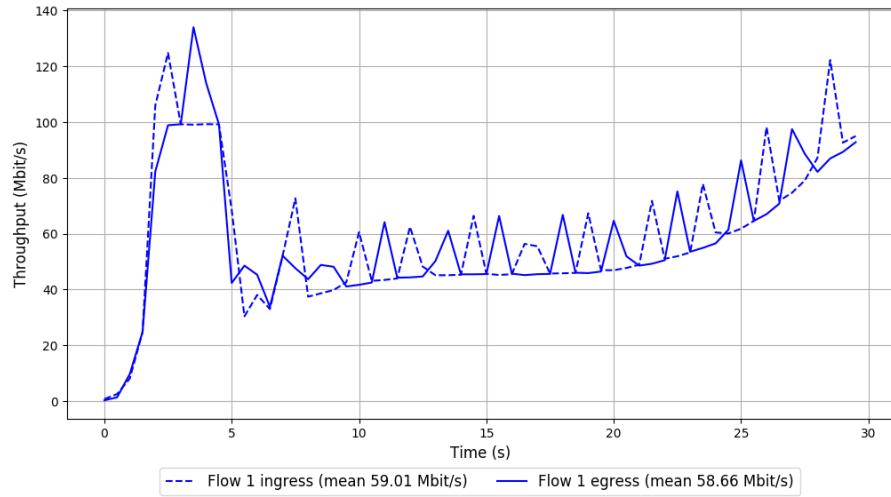
Run 4: Statistics of TCP Cubic

Start at: 2017-09-17 21:31:30

End at: 2017-09-17 21:32:00

```
# Below is generated by plot.py at 2017-09-18 01:19:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 118.969 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 58.66 Mbit/s
95th percentile per-packet one-way delay: 118.969 ms
Loss rate: 1.34%
```

Run 4: Report of TCP Cubic — Data Link

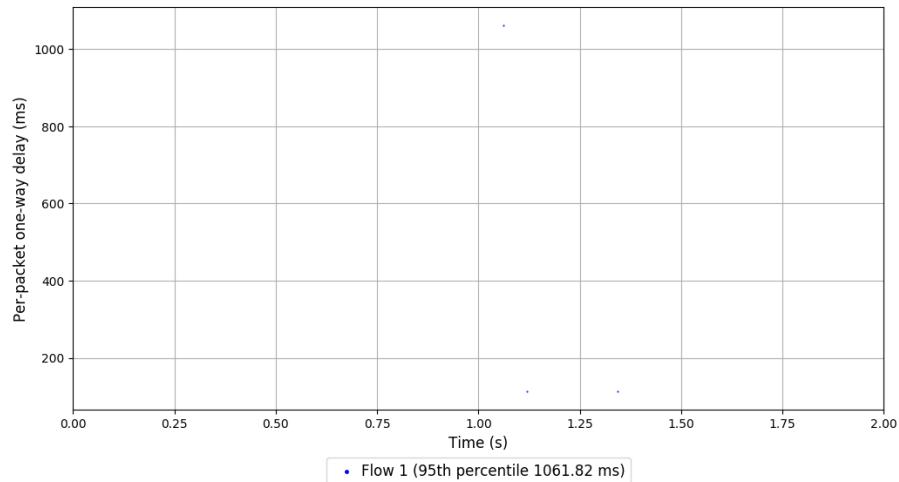
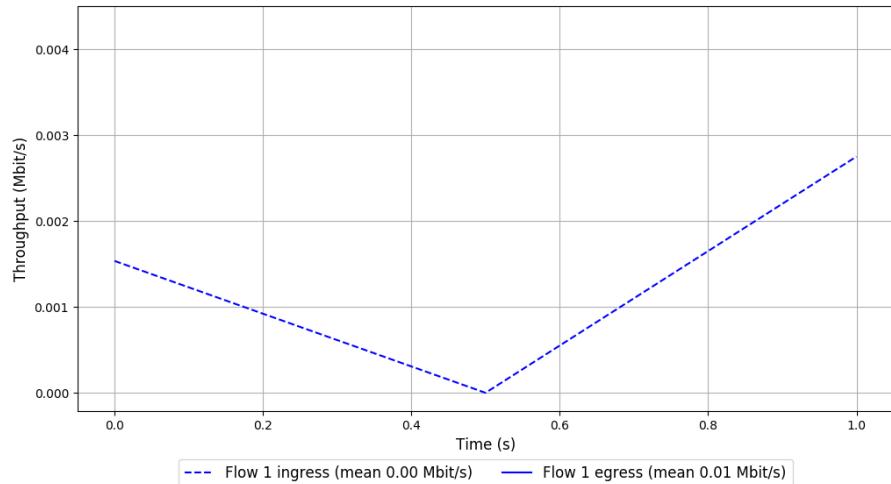


Run 5: Statistics of TCP Cubic

Start at: 2017-09-17 21:43:29

End at: 2017-09-17 21:43:59

Run 5: Report of TCP Cubic — Data Link



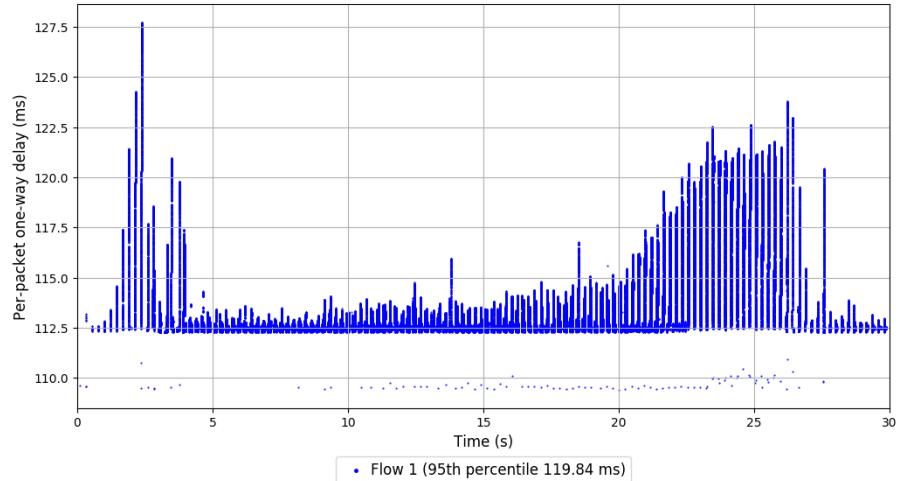
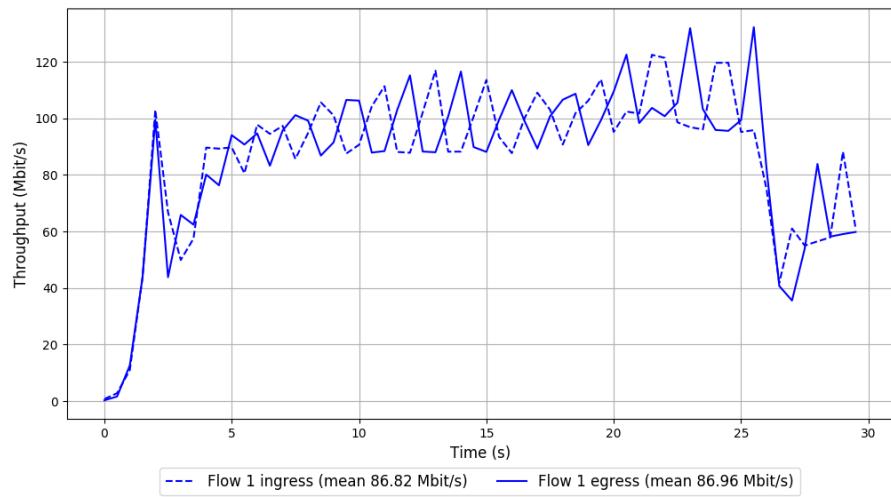
Run 6: Statistics of TCP Cubic

Start at: 2017-09-17 21:55:37

End at: 2017-09-17 21:56:07

```
# Below is generated by plot.py at 2017-09-18 01:19:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 119.837 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 86.96 Mbit/s
95th percentile per-packet one-way delay: 119.837 ms
Loss rate: 0.58%
```

Run 6: Report of TCP Cubic — Data Link



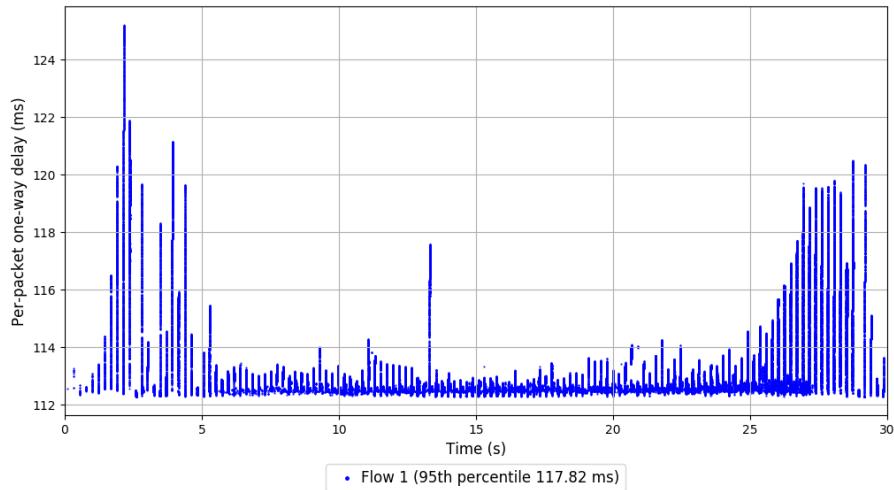
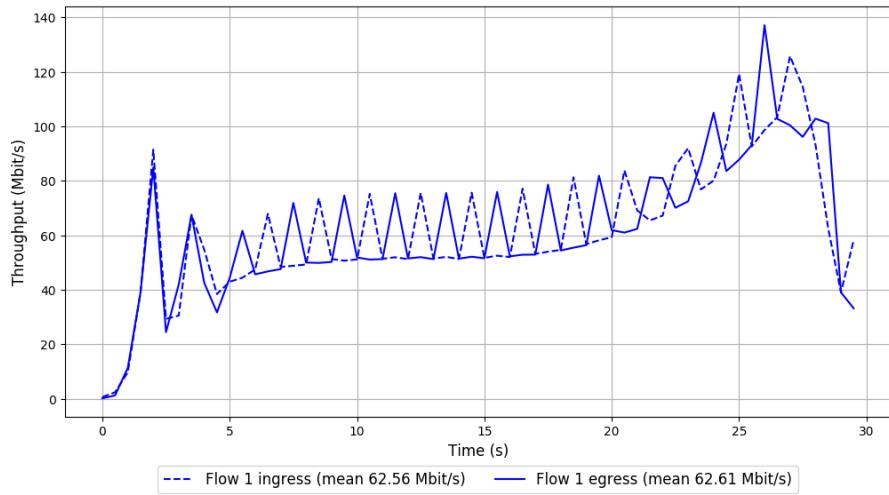
Run 7: Statistics of TCP Cubic

Start at: 2017-09-17 22:07:38

End at: 2017-09-17 22:08:08

```
# Below is generated by plot.py at 2017-09-18 01:19:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.61 Mbit/s
95th percentile per-packet one-way delay: 117.824 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 62.61 Mbit/s
95th percentile per-packet one-way delay: 117.824 ms
Loss rate: 0.67%
```

Run 7: Report of TCP Cubic — Data Link



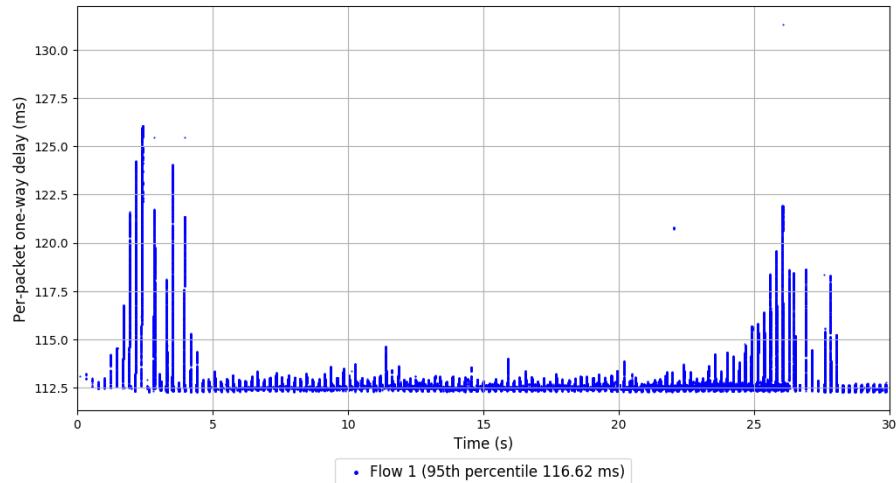
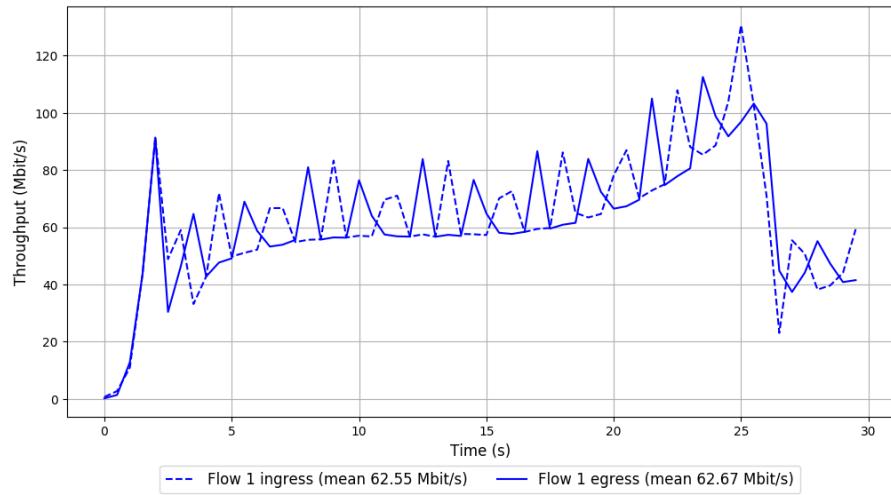
Run 8: Statistics of TCP Cubic

Start at: 2017-09-17 22:19:51

End at: 2017-09-17 22:20:21

```
# Below is generated by plot.py at 2017-09-18 01:19:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.67 Mbit/s
95th percentile per-packet one-way delay: 116.622 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 62.67 Mbit/s
95th percentile per-packet one-way delay: 116.622 ms
Loss rate: 0.57%
```

Run 8: Report of TCP Cubic — Data Link



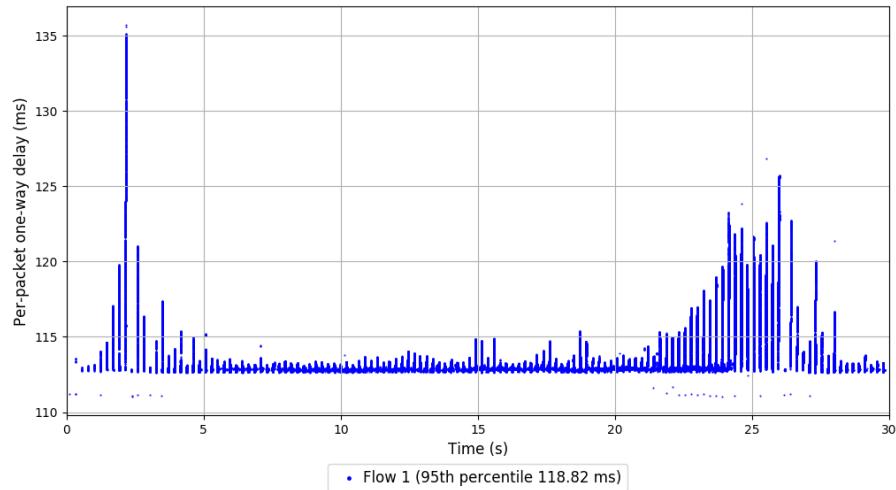
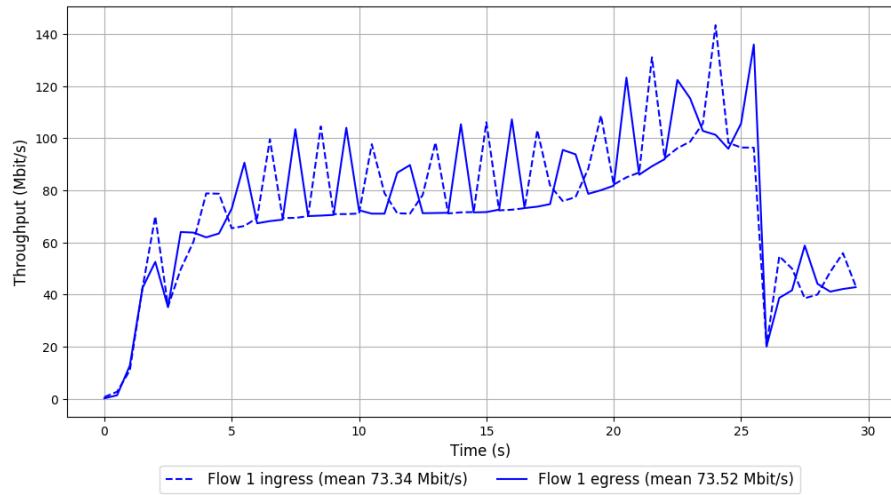
Run 9: Statistics of TCP Cubic

Start at: 2017-09-17 22:31:48

End at: 2017-09-17 22:32:18

```
# Below is generated by plot.py at 2017-09-18 01:19:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.52 Mbit/s
95th percentile per-packet one-way delay: 118.824 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 73.52 Mbit/s
95th percentile per-packet one-way delay: 118.824 ms
Loss rate: 0.50%
```

Run 9: Report of TCP Cubic — Data Link



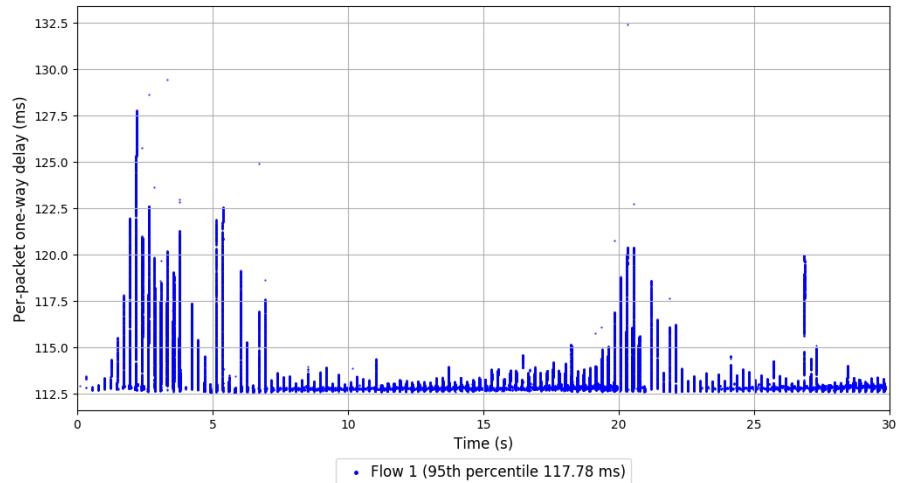
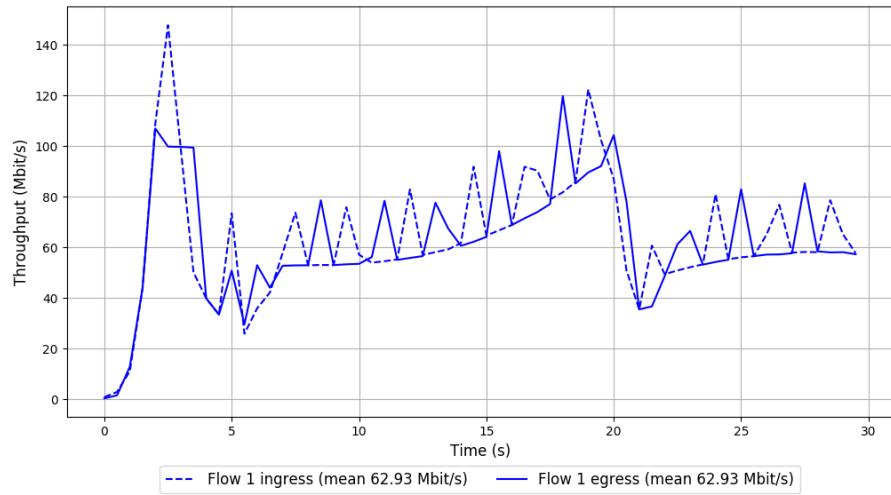
Run 10: Statistics of TCP Cubic

Start at: 2017-09-17 22:43:43

End at: 2017-09-17 22:44:13

```
# Below is generated by plot.py at 2017-09-18 01:19:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.93 Mbit/s
95th percentile per-packet one-way delay: 117.778 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 62.93 Mbit/s
95th percentile per-packet one-way delay: 117.778 ms
Loss rate: 0.77%
```

Run 10: Report of TCP Cubic — Data Link



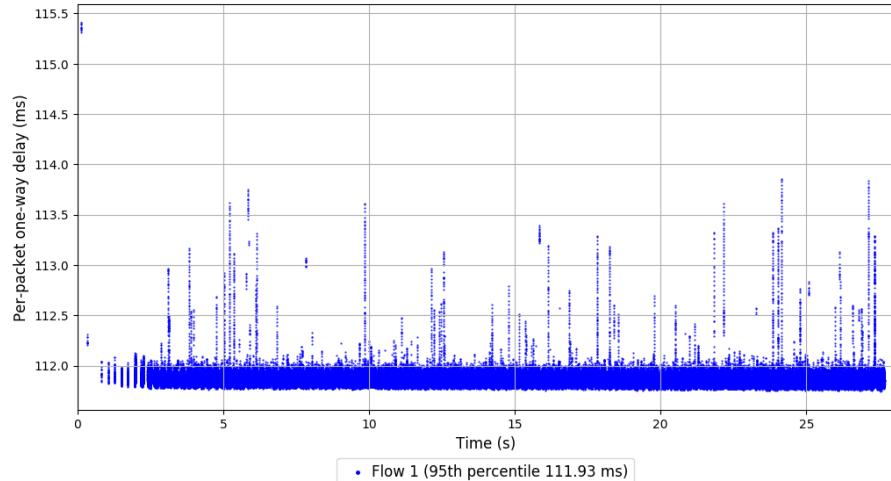
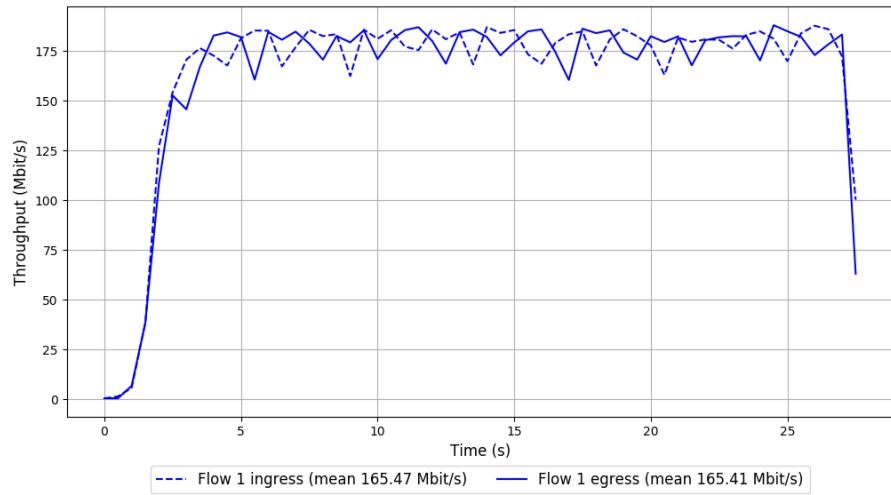
Run 1: Statistics of Indigo

Start at: 2017-09-17 20:56:21

End at: 2017-09-17 20:56:51

```
# Below is generated by plot.py at 2017-09-18 01:21:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.41 Mbit/s
95th percentile per-packet one-way delay: 111.931 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 165.41 Mbit/s
95th percentile per-packet one-way delay: 111.931 ms
Loss rate: 0.86%
```

Run 1: Report of Indigo — Data Link



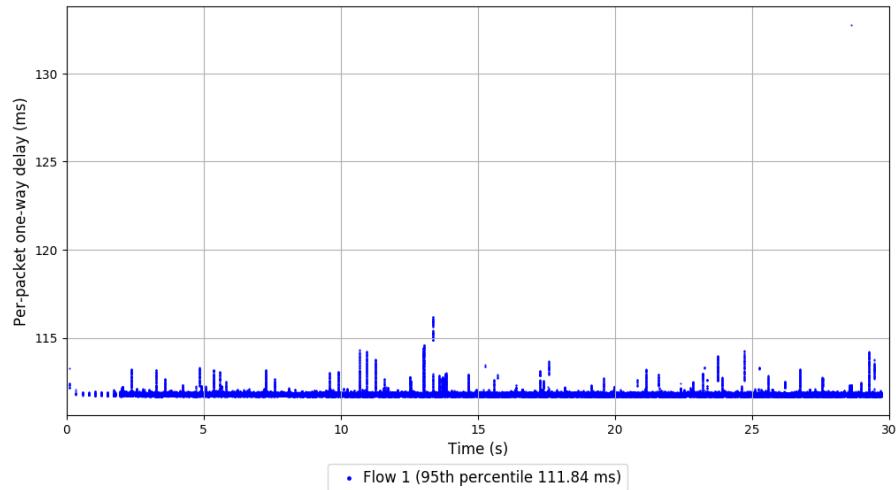
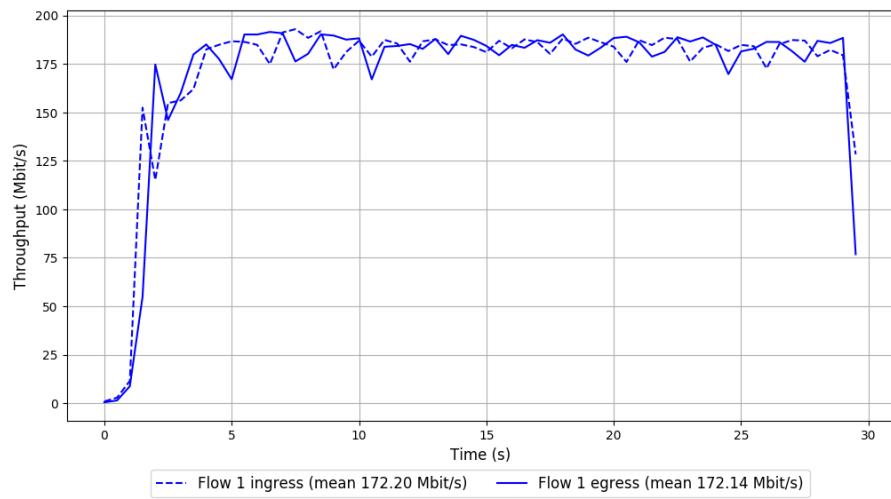
Run 2: Statistics of Indigo

Start at: 2017-09-17 21:08:29

End at: 2017-09-17 21:08:59

```
# Below is generated by plot.py at 2017-09-18 01:21:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.14 Mbit/s
95th percentile per-packet one-way delay: 111.840 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 172.14 Mbit/s
95th percentile per-packet one-way delay: 111.840 ms
Loss rate: 0.78%
```

Run 2: Report of Indigo — Data Link



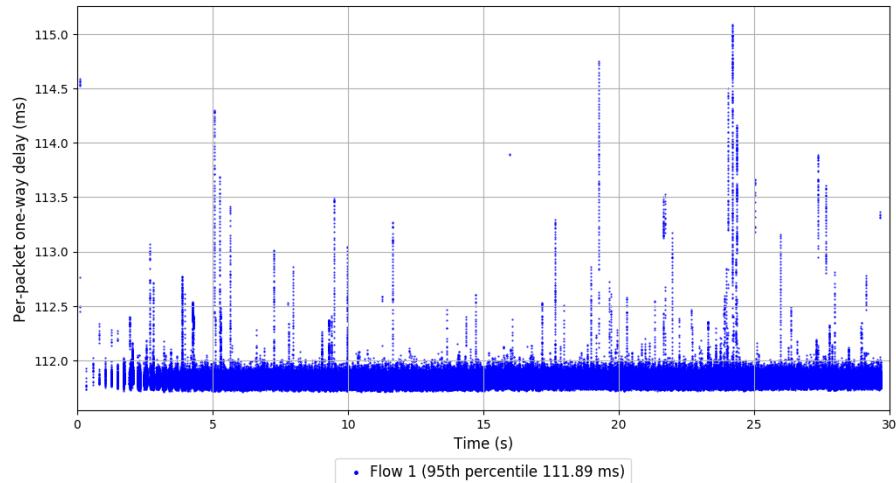
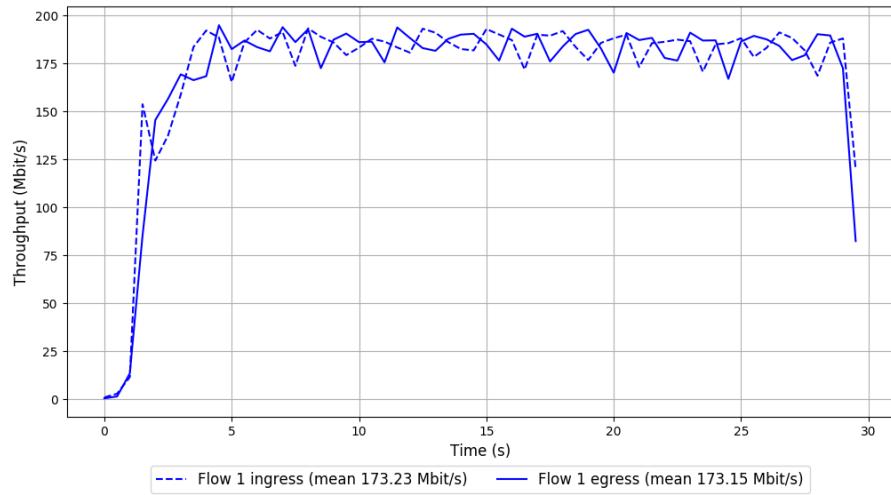
Run 3: Statistics of Indigo

Start at: 2017-09-17 21:20:15

End at: 2017-09-17 21:20:45

```
# Below is generated by plot.py at 2017-09-18 01:21:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.15 Mbit/s
95th percentile per-packet one-way delay: 111.891 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 173.15 Mbit/s
95th percentile per-packet one-way delay: 111.891 ms
Loss rate: 0.80%
```

Run 3: Report of Indigo — Data Link



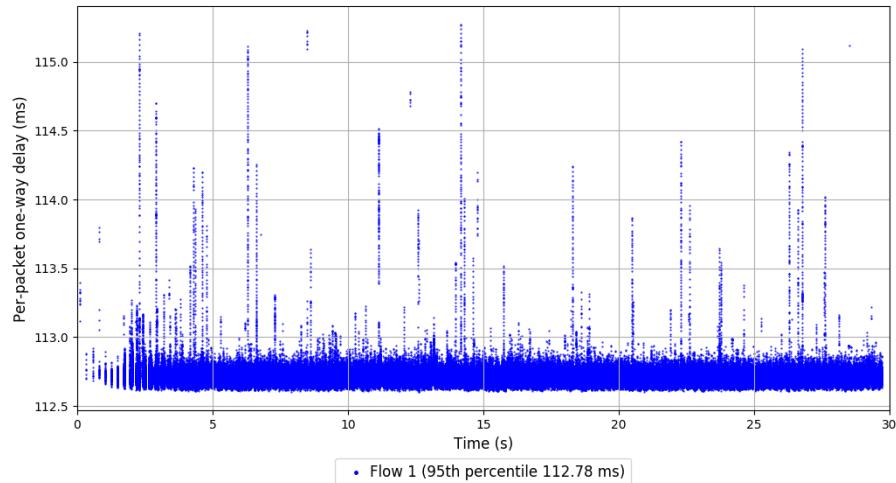
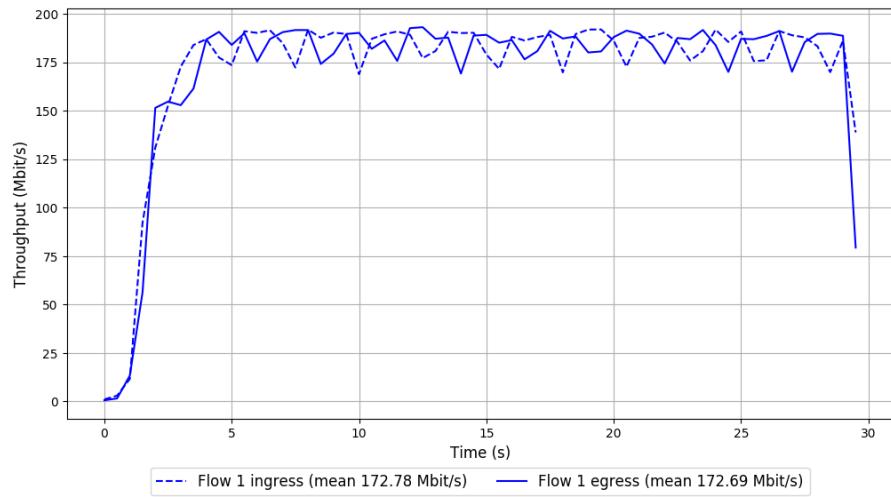
Run 4: Statistics of Indigo

Start at: 2017-09-17 21:32:14

End at: 2017-09-17 21:32:44

```
# Below is generated by plot.py at 2017-09-18 01:21:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.69 Mbit/s
95th percentile per-packet one-way delay: 112.782 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 172.69 Mbit/s
95th percentile per-packet one-way delay: 112.782 ms
Loss rate: 0.81%
```

Run 4: Report of Indigo — Data Link



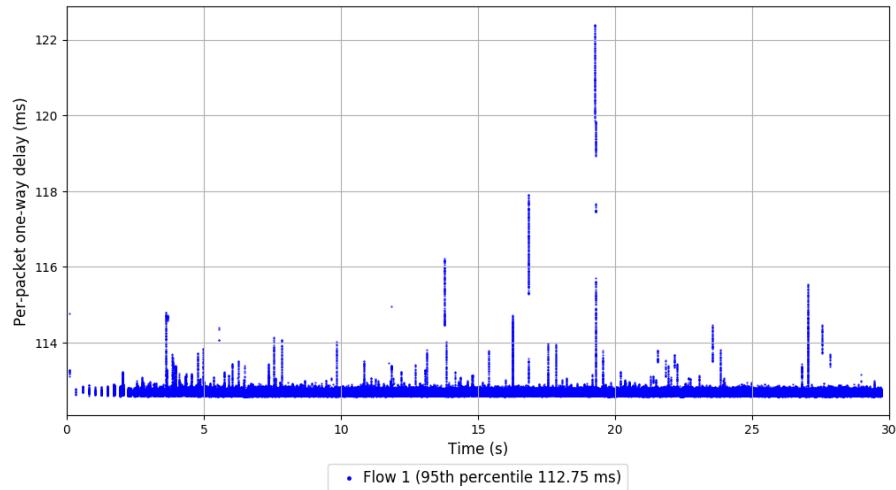
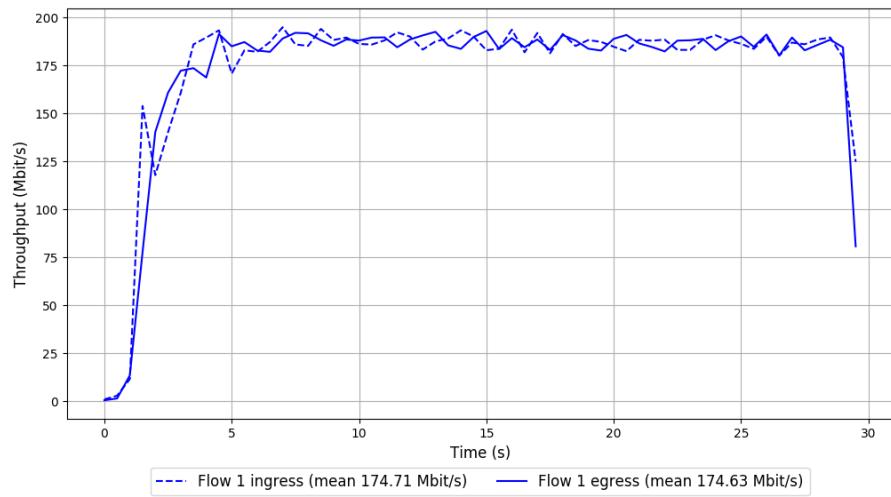
Run 5: Statistics of Indigo

Start at: 2017-09-17 21:44:09

End at: 2017-09-17 21:44:39

```
# Below is generated by plot.py at 2017-09-18 01:22:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.63 Mbit/s
95th percentile per-packet one-way delay: 112.755 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 174.63 Mbit/s
95th percentile per-packet one-way delay: 112.755 ms
Loss rate: 0.80%
```

Run 5: Report of Indigo — Data Link



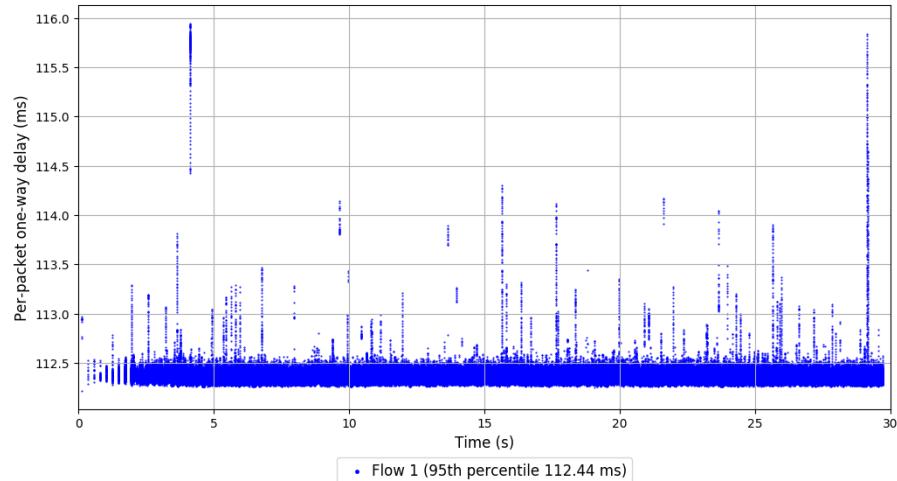
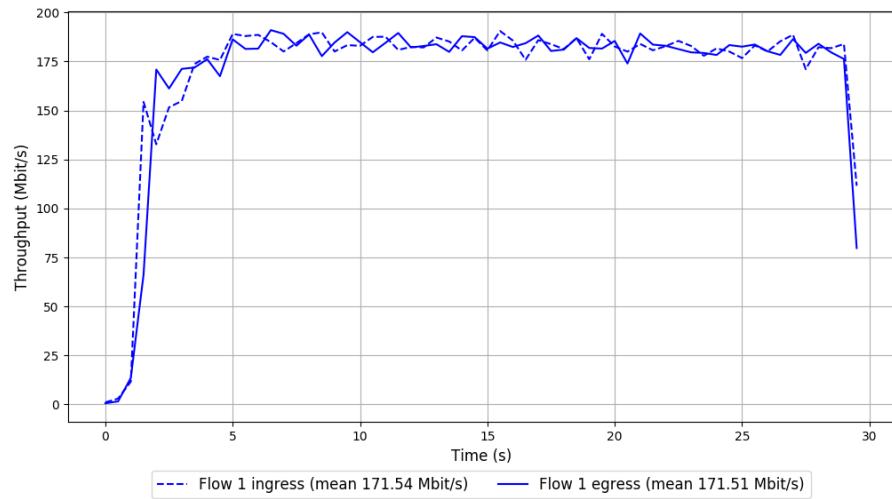
Run 6: Statistics of Indigo

Start at: 2017-09-17 21:56:23

End at: 2017-09-17 21:56:53

```
# Below is generated by plot.py at 2017-09-18 01:22:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.51 Mbit/s
95th percentile per-packet one-way delay: 112.436 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 171.51 Mbit/s
95th percentile per-packet one-way delay: 112.436 ms
Loss rate: 0.76%
```

Run 6: Report of Indigo — Data Link



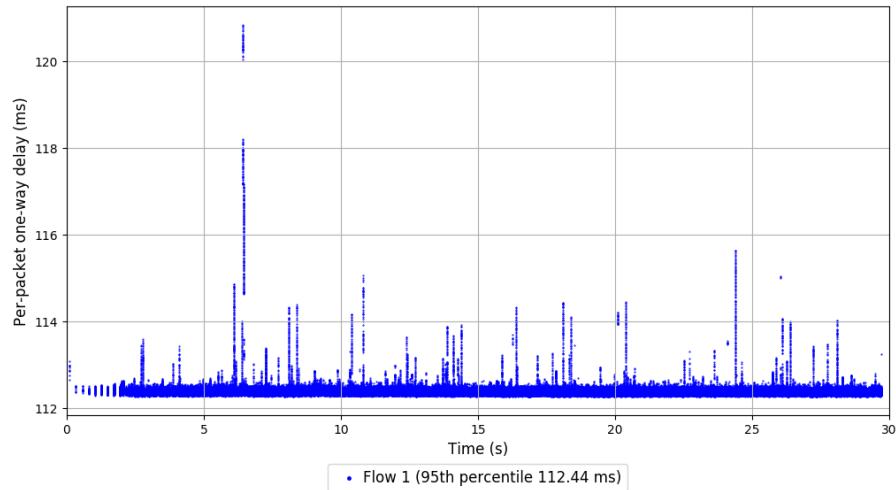
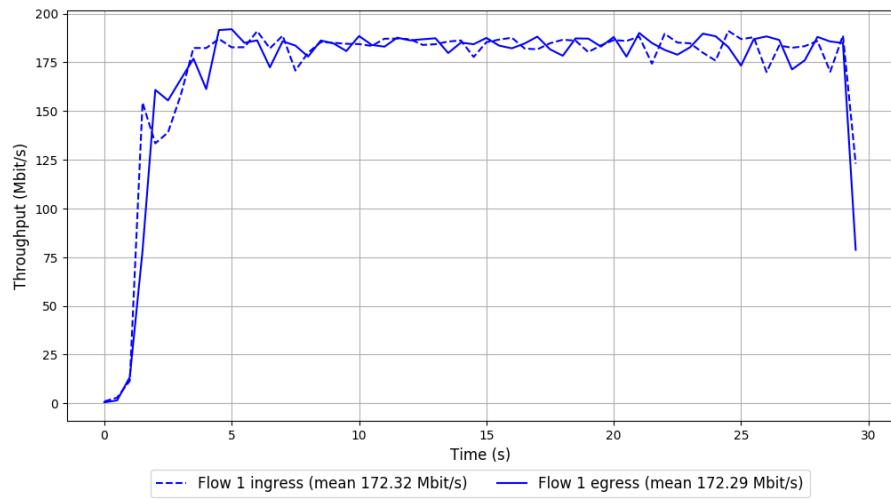
Run 7: Statistics of Indigo

Start at: 2017-09-17 22:08:23

End at: 2017-09-17 22:08:53

```
# Below is generated by plot.py at 2017-09-18 01:22:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.29 Mbit/s
95th percentile per-packet one-way delay: 112.439 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 172.29 Mbit/s
95th percentile per-packet one-way delay: 112.439 ms
Loss rate: 0.76%
```

Run 7: Report of Indigo — Data Link



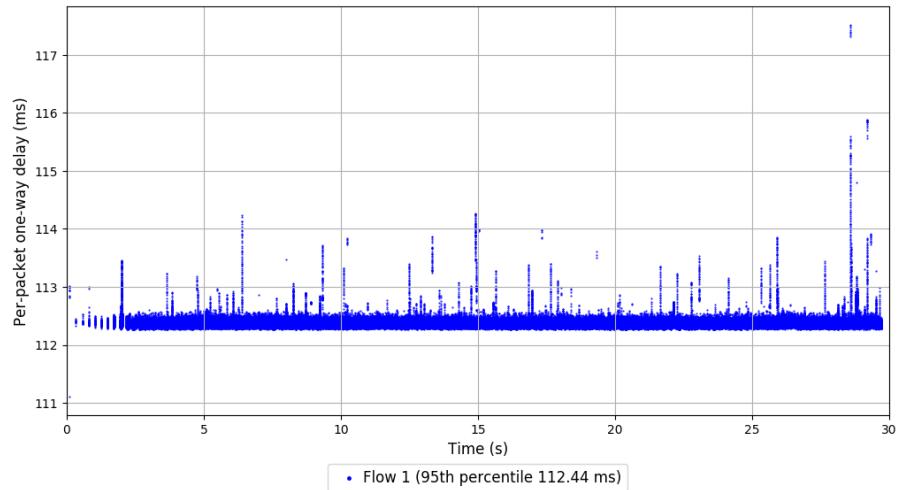
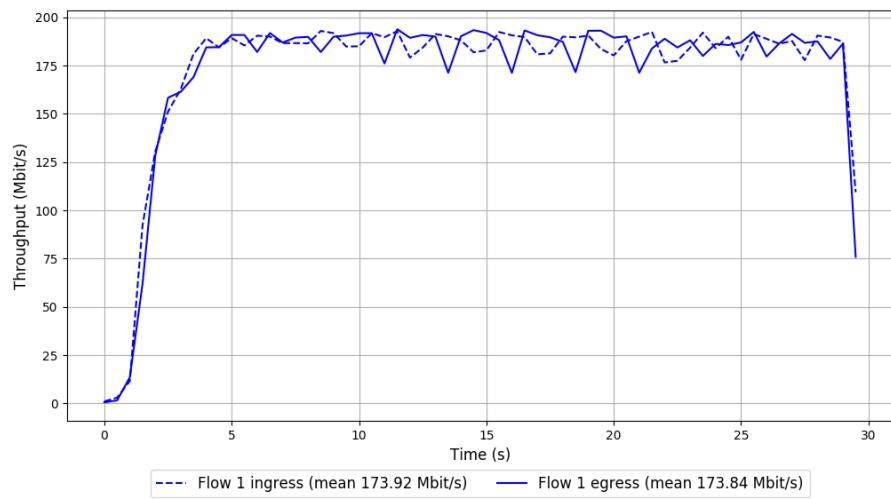
Run 8: Statistics of Indigo

Start at: 2017-09-17 22:20:35

End at: 2017-09-17 22:21:05

```
# Below is generated by plot.py at 2017-09-18 01:22:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.84 Mbit/s
95th percentile per-packet one-way delay: 112.437 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 173.84 Mbit/s
95th percentile per-packet one-way delay: 112.437 ms
Loss rate: 0.80%
```

Run 8: Report of Indigo — Data Link



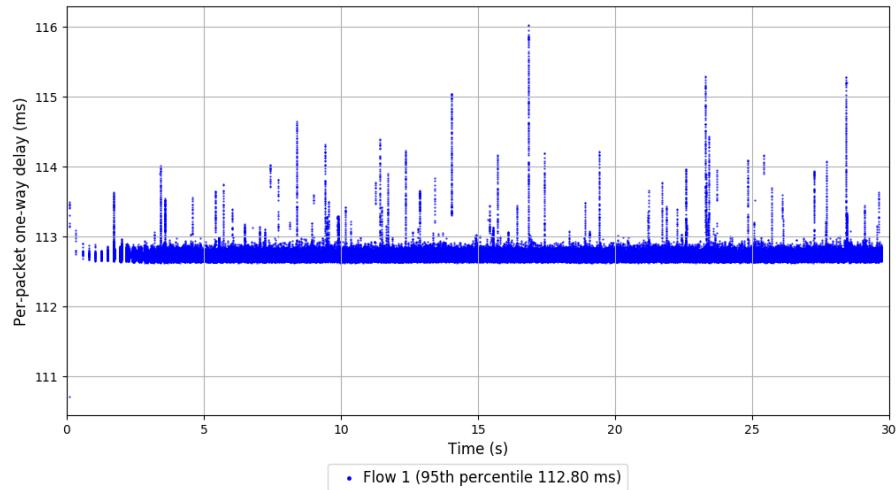
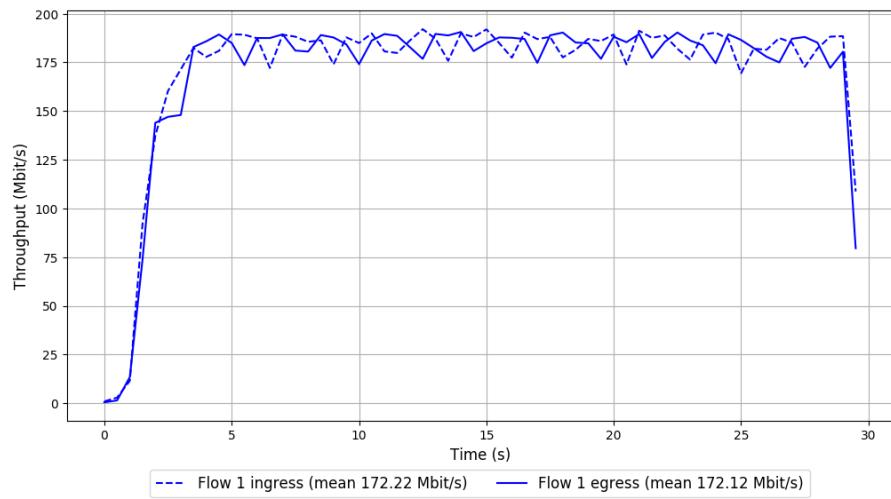
Run 9: Statistics of Indigo

Start at: 2017-09-17 22:32:33

End at: 2017-09-17 22:33:03

```
# Below is generated by plot.py at 2017-09-18 01:24:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 172.12 Mbit/s
95th percentile per-packet one-way delay: 112.795 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 172.12 Mbit/s
95th percentile per-packet one-way delay: 112.795 ms
Loss rate: 0.80%
```

Run 9: Report of Indigo — Data Link



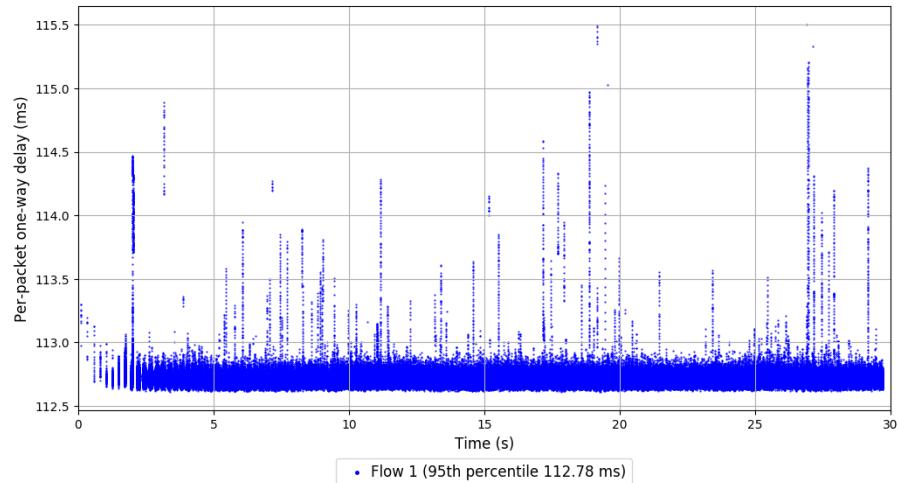
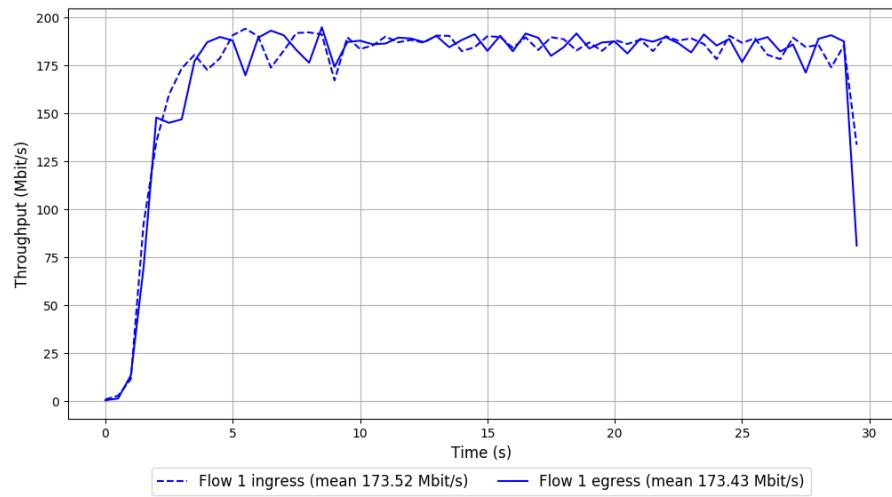
Run 10: Statistics of Indigo

Start at: 2017-09-17 22:44:27

End at: 2017-09-17 22:44:57

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.43 Mbit/s
95th percentile per-packet one-way delay: 112.782 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 173.43 Mbit/s
95th percentile per-packet one-way delay: 112.782 ms
Loss rate: 0.81%
```

Run 10: Report of Indigo — Data Link



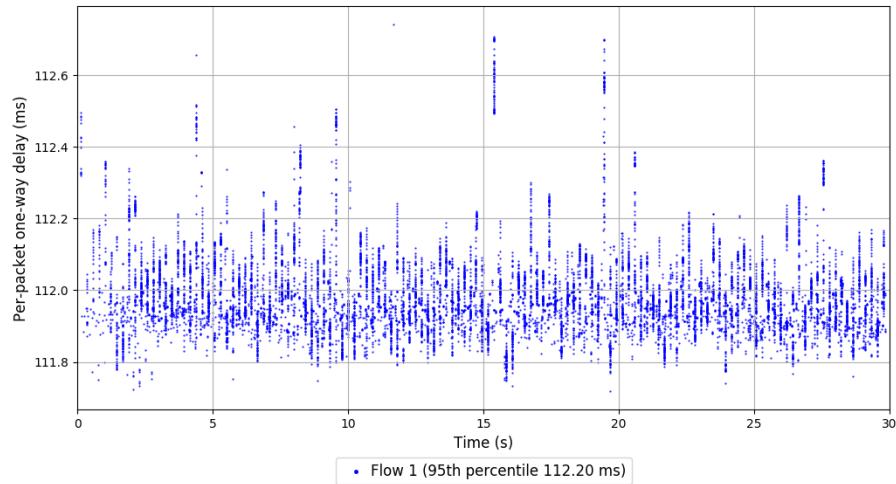
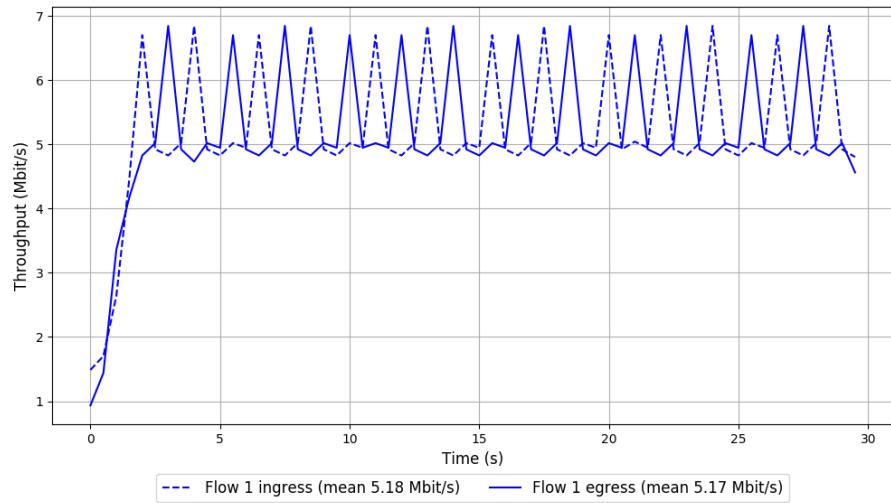
Run 1: Statistics of KohoCC

Start at: 2017-09-17 20:57:54

End at: 2017-09-17 20:58:24

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 112.199 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 112.199 ms
Loss rate: 0.81%
```

Run 1: Report of KohoCC — Data Link



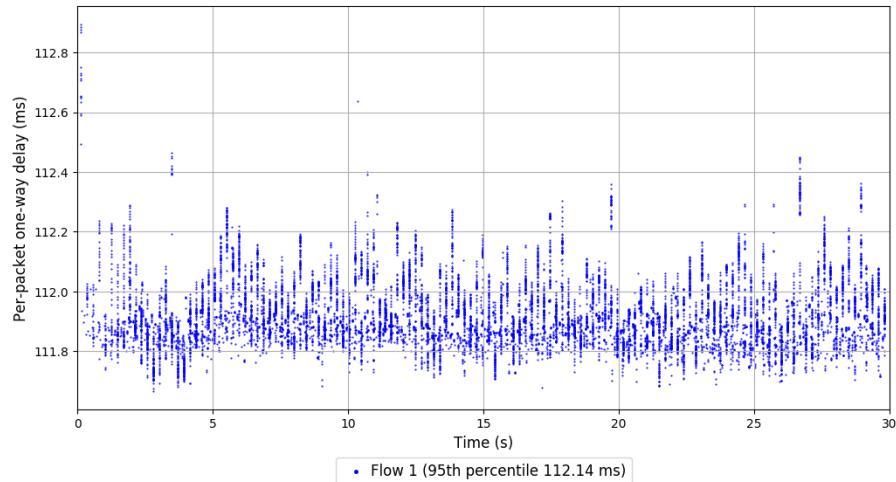
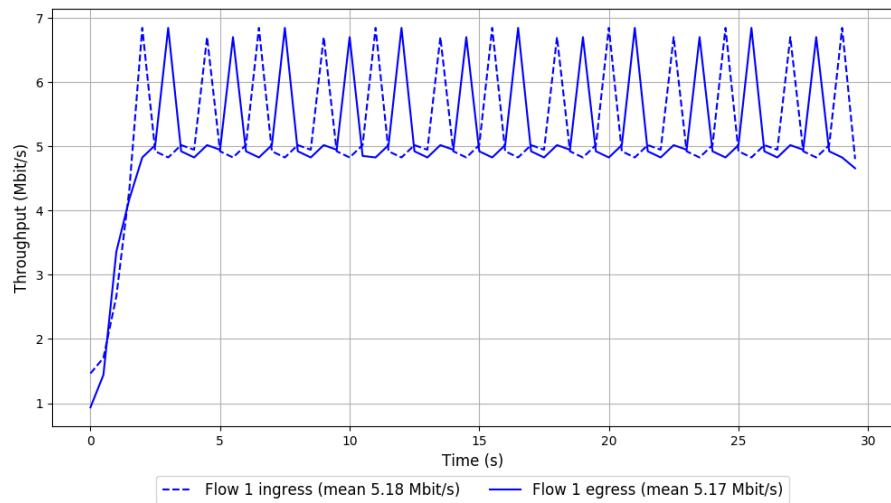
Run 2: Statistics of KohoCC

Start at: 2017-09-17 21:10:04

End at: 2017-09-17 21:10:34

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 112.140 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 112.140 ms
Loss rate: 0.80%
```

Run 2: Report of KohoCC — Data Link



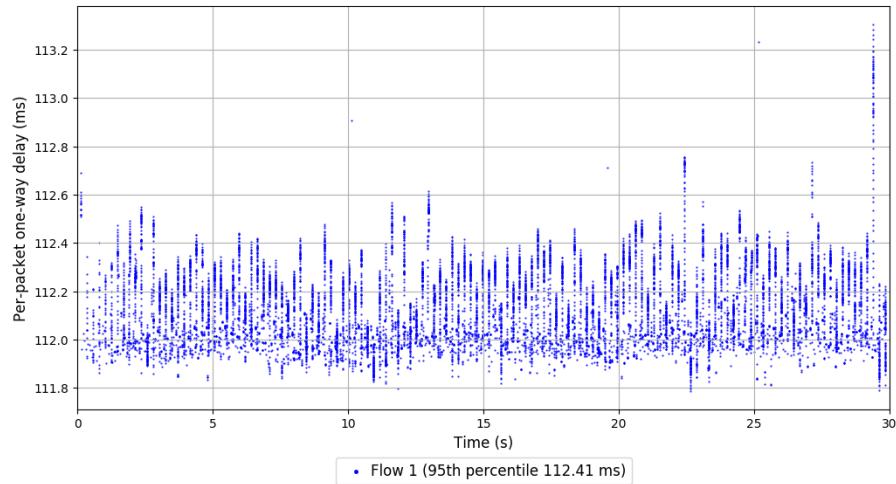
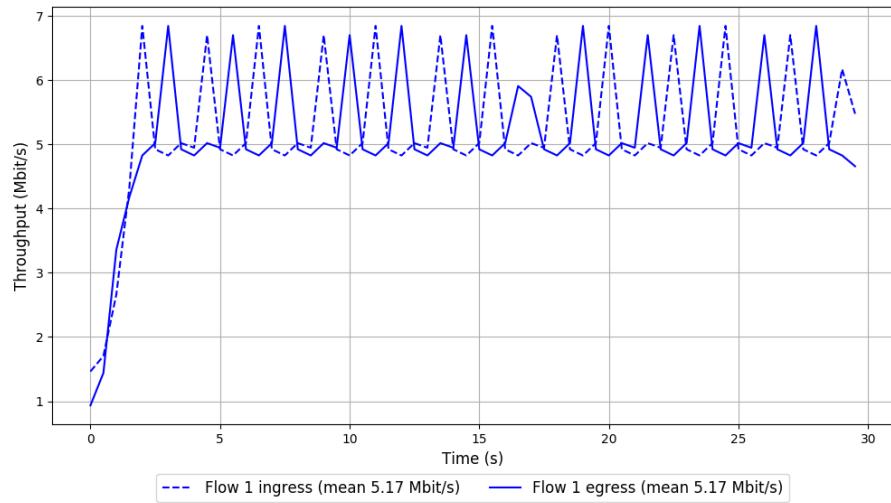
Run 3: Statistics of KohoCC

Start at: 2017-09-17 21:21:49

End at: 2017-09-17 21:22:20

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 112.410 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 112.410 ms
Loss rate: 0.77%
```

Run 3: Report of KohoCC — Data Link



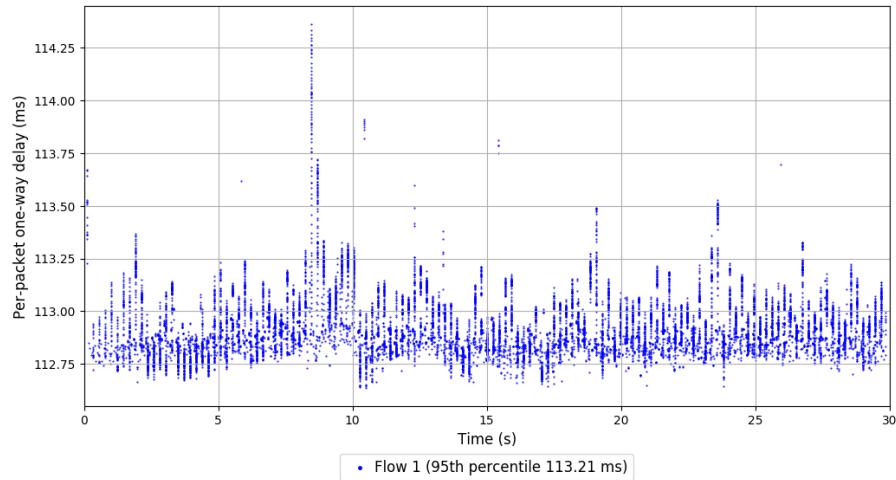
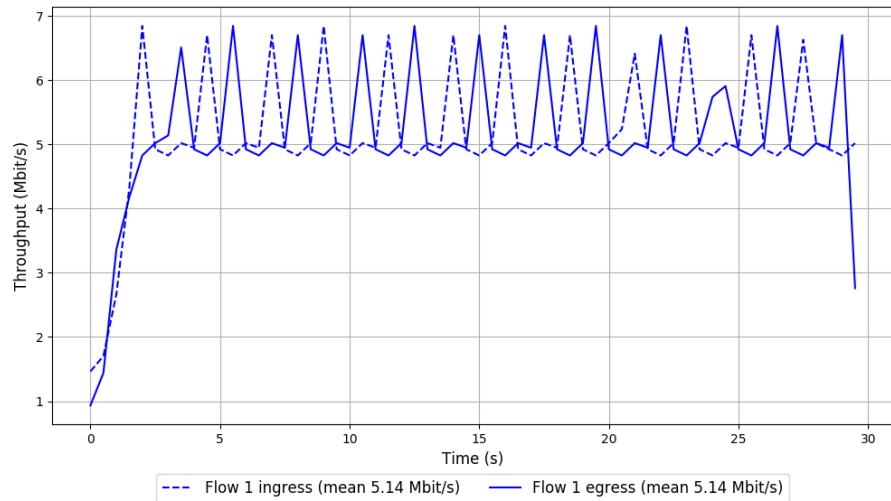
Run 4: Statistics of KohoCC

Start at: 2017-09-17 21:33:49

End at: 2017-09-17 21:34:19

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.14 Mbit/s
95th percentile per-packet one-way delay: 113.206 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 5.14 Mbit/s
95th percentile per-packet one-way delay: 113.206 ms
Loss rate: 0.78%
```

Run 4: Report of KohoCC — Data Link



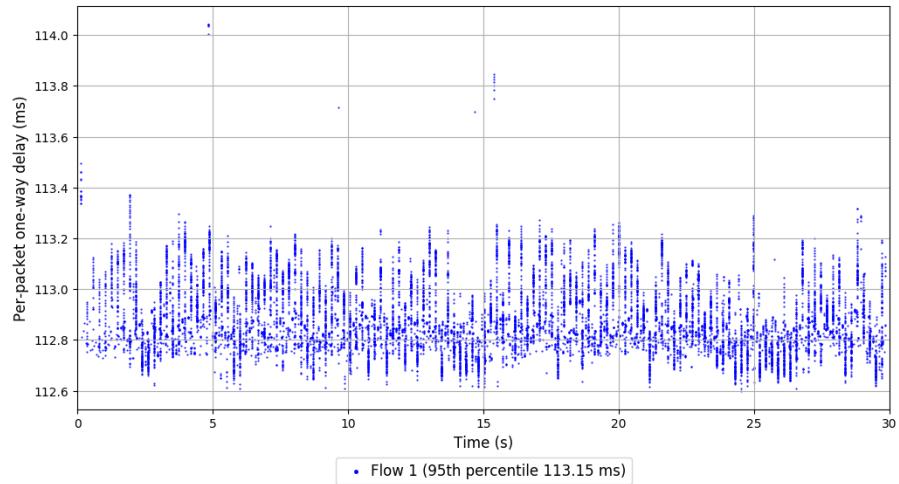
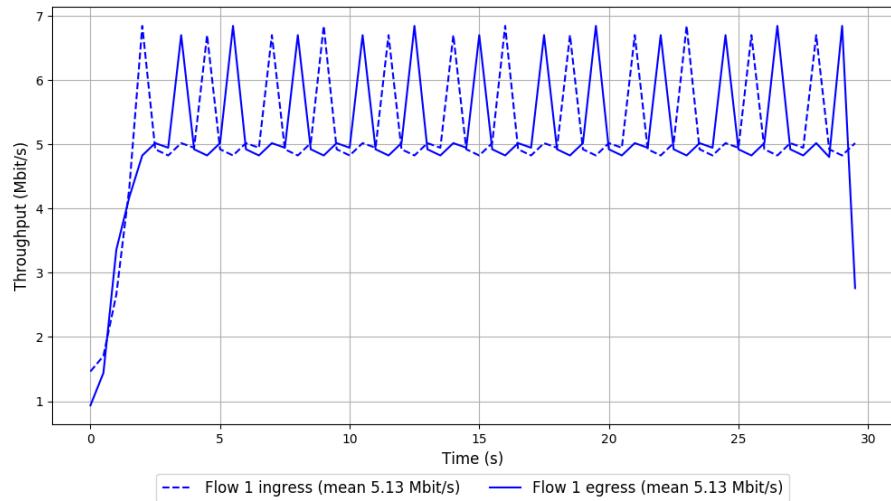
Run 5: Statistics of KohoCC

Start at: 2017-09-17 21:45:44

End at: 2017-09-17 21:46:14

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.13 Mbit/s
95th percentile per-packet one-way delay: 113.152 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 5.13 Mbit/s
95th percentile per-packet one-way delay: 113.152 ms
Loss rate: 0.78%
```

Run 5: Report of KohoCC — Data Link



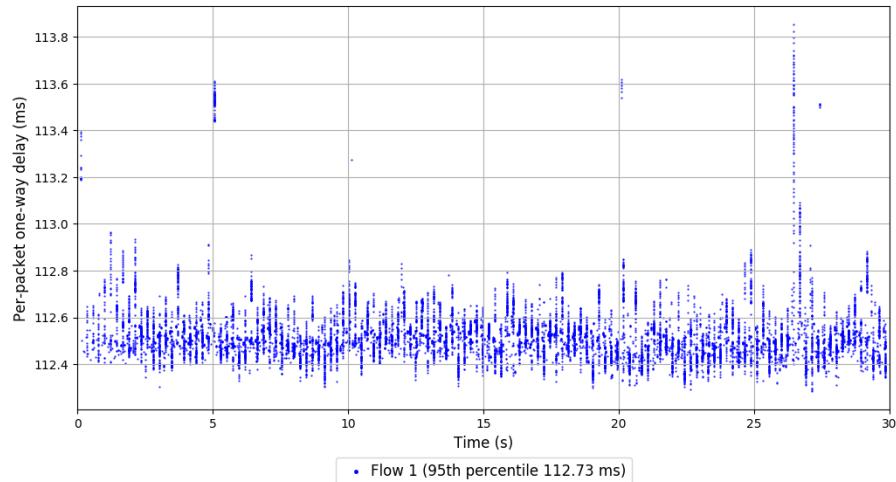
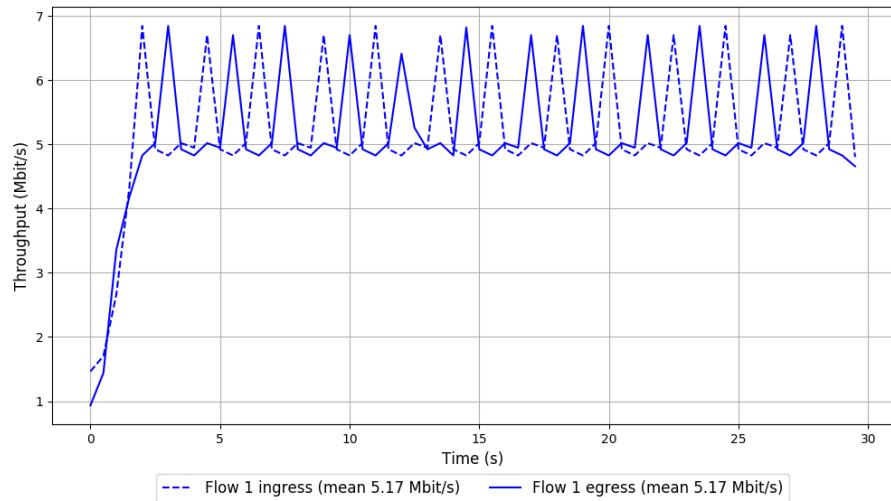
Run 6: Statistics of KohoCC

Start at: 2017-09-17 21:57:57

End at: 2017-09-17 21:58:27

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 112.726 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 112.726 ms
Loss rate: 0.77%
```

Run 6: Report of KohoCC — Data Link



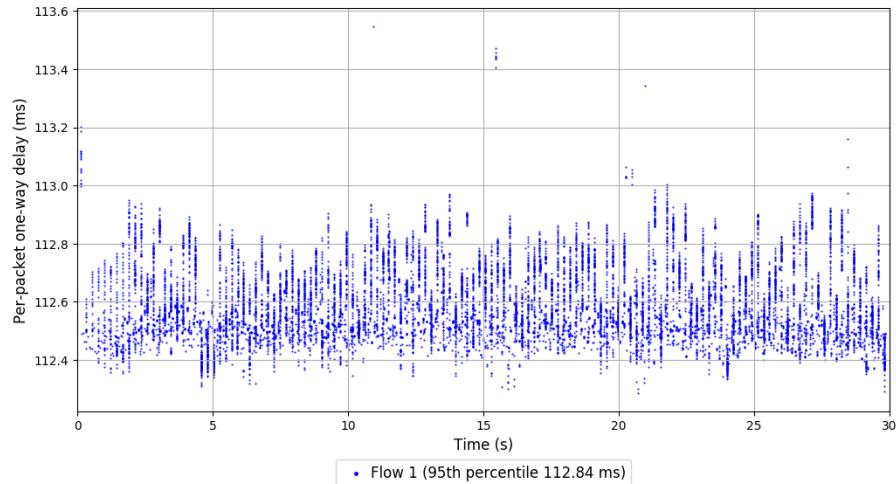
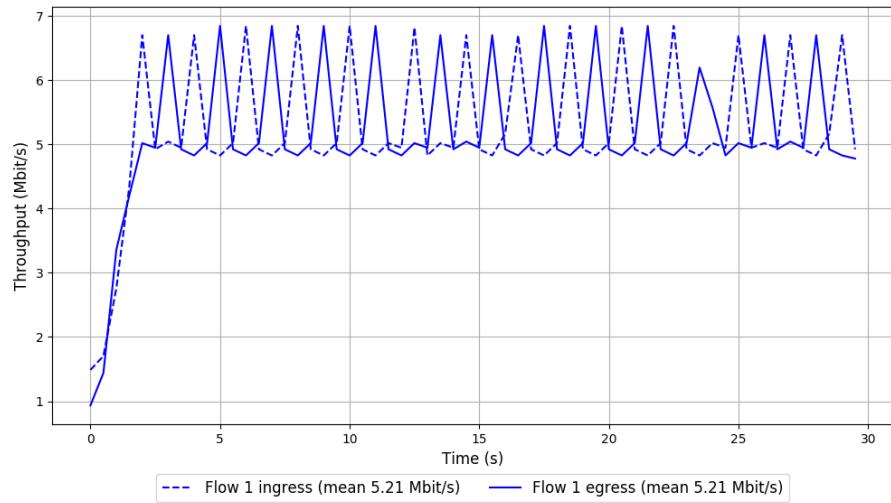
Run 7: Statistics of KohoCC

Start at: 2017-09-17 22:09:57

End at: 2017-09-17 22:10:27

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 112.840 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 112.840 ms
Loss rate: 0.77%
```

Run 7: Report of KohoCC — Data Link



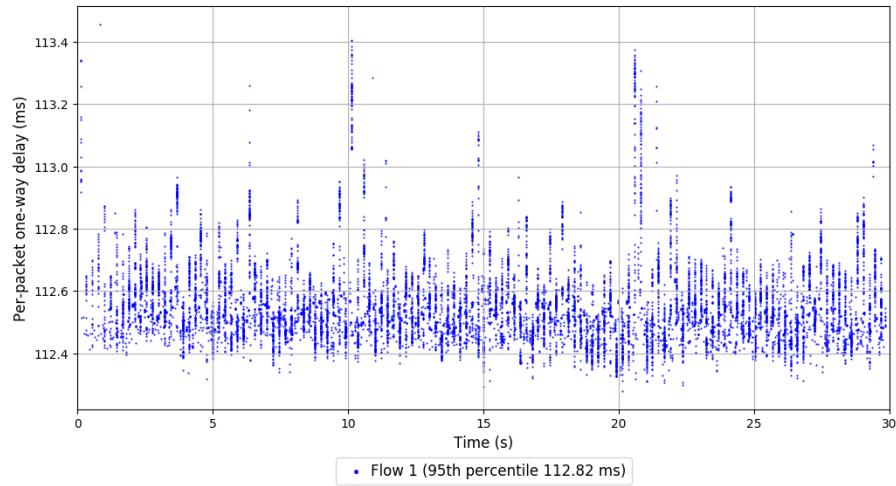
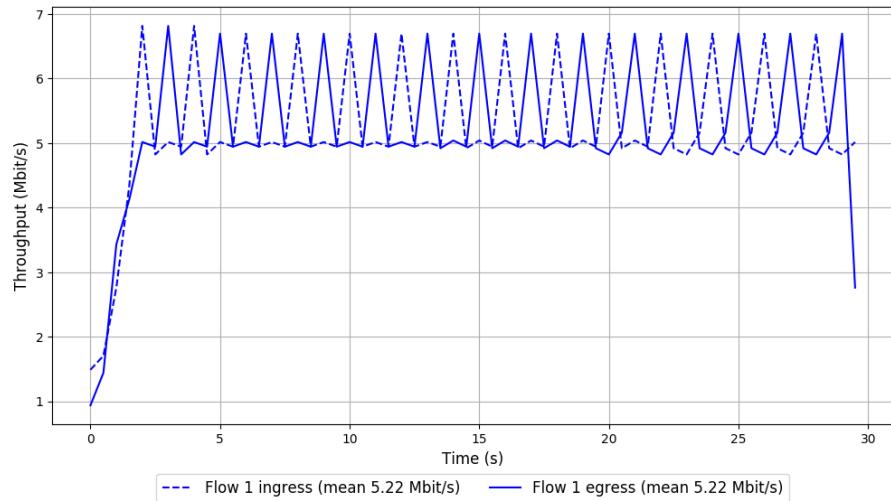
Run 8: Statistics of KohoCC

Start at: 2017-09-17 22:22:10

End at: 2017-09-17 22:22:40

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 112.821 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 112.821 ms
Loss rate: 0.77%
```

Run 8: Report of KohoCC — Data Link



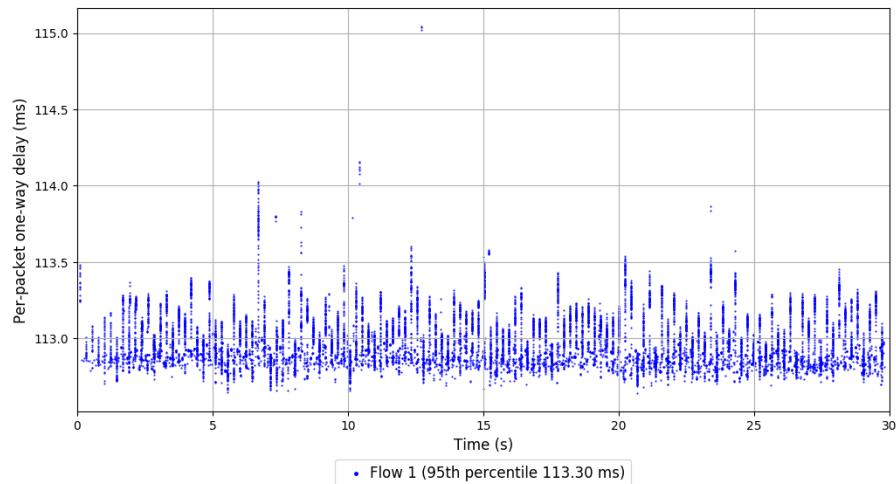
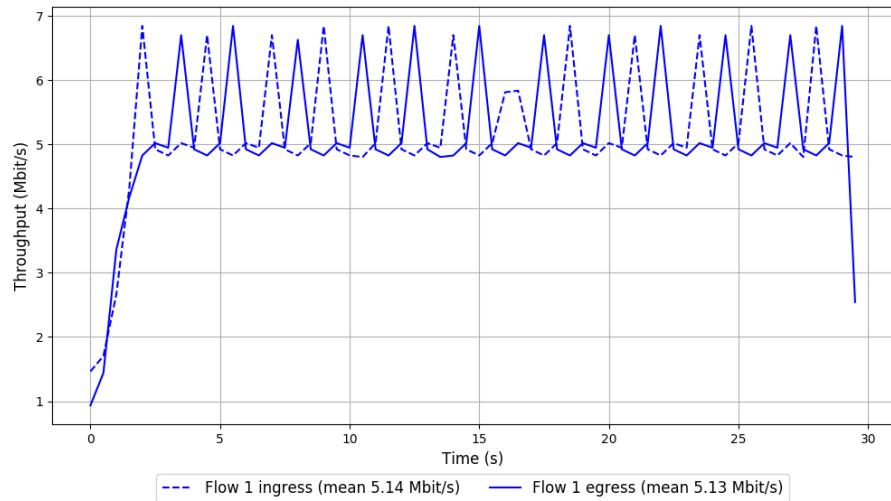
Run 9: Statistics of KohoCC

Start at: 2017-09-17 22:34:08

End at: 2017-09-17 22:34:38

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.13 Mbit/s
95th percentile per-packet one-way delay: 113.301 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 5.13 Mbit/s
95th percentile per-packet one-way delay: 113.301 ms
Loss rate: 0.80%
```

Run 9: Report of KohoCC — Data Link



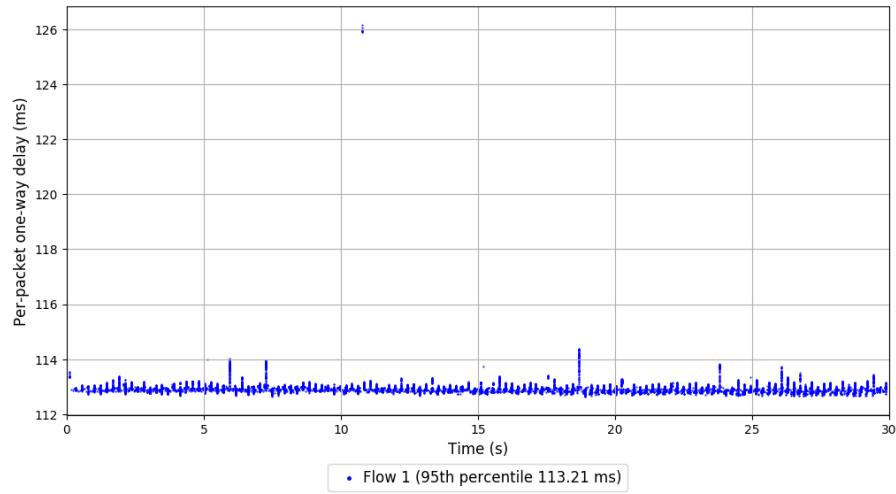
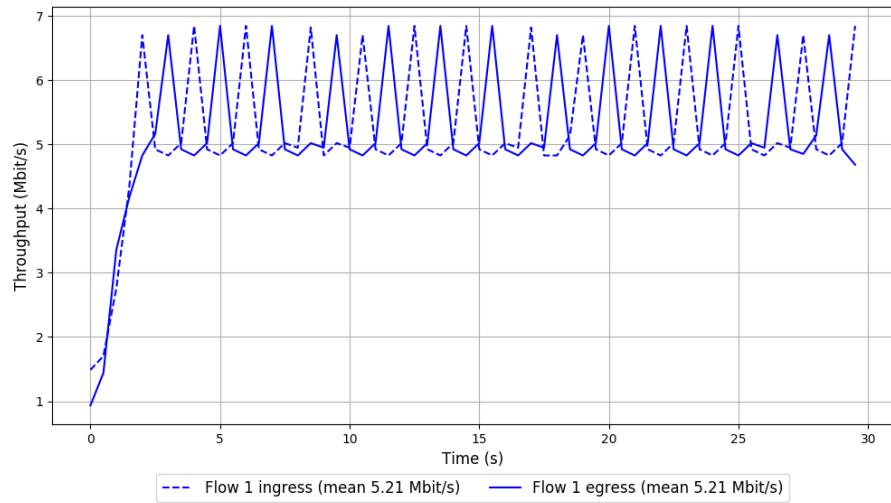
Run 10: Statistics of KohoCC

Start at: 2017-09-17 22:46:02

End at: 2017-09-17 22:46:32

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 113.206 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 113.206 ms
Loss rate: 0.77%
```

Run 10: Report of KohoCC — Data Link

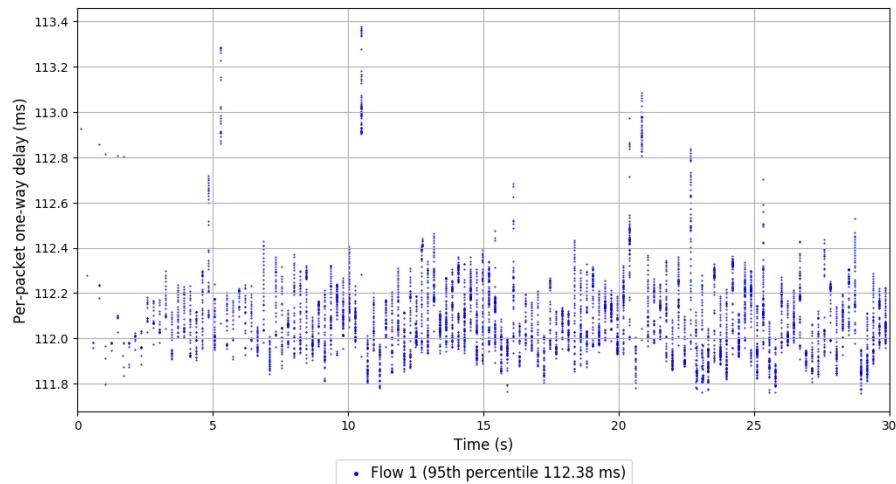
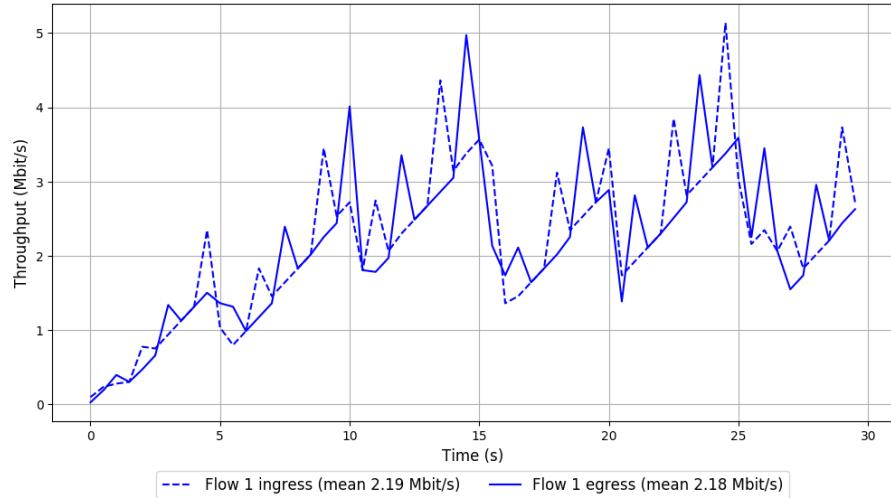


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-17 20:57:13
End at: 2017-09-17 20:57:43

# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 112.384 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 112.384 ms
Loss rate: 1.11%
```

Run 1: Report of LEDBAT — Data Link



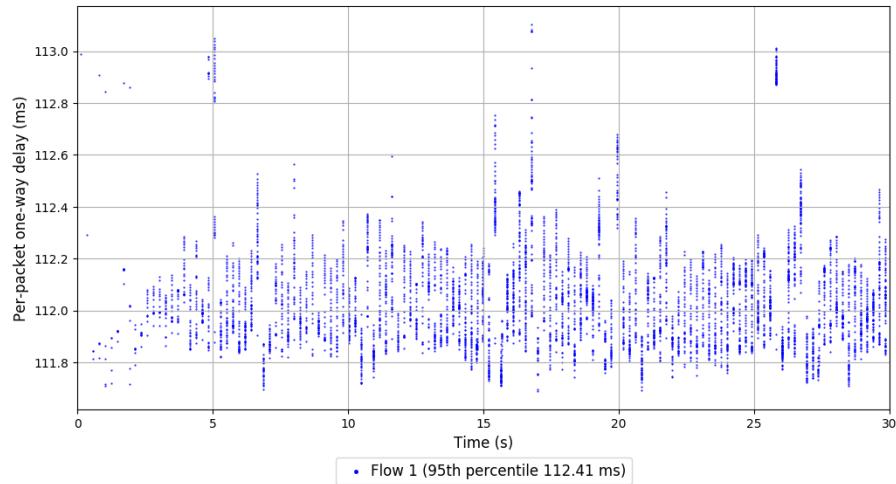
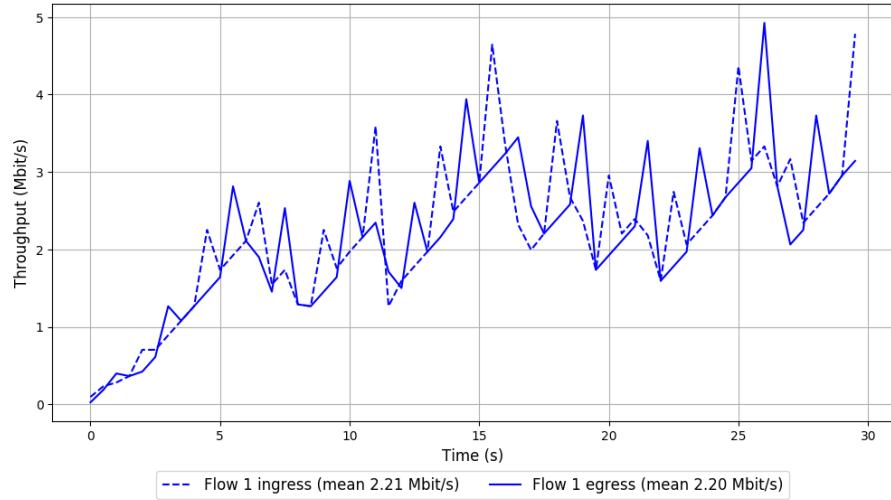
Run 2: Statistics of LEDBAT

Start at: 2017-09-17 21:09:23

End at: 2017-09-17 21:09:53

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 112.407 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 112.407 ms
Loss rate: 1.31%
```

Run 2: Report of LEDBAT — Data Link



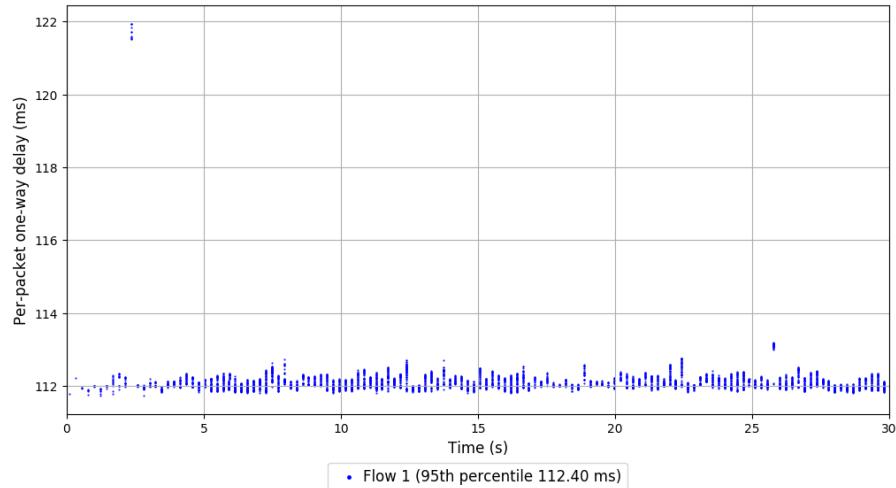
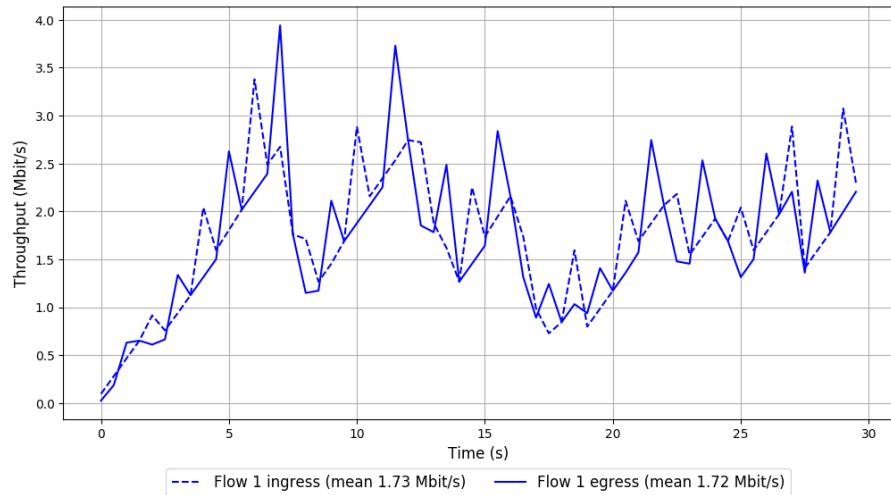
Run 3: Statistics of LEDBAT

Start at: 2017-09-17 21:21:09

End at: 2017-09-17 21:21:39

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 112.403 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 112.403 ms
Loss rate: 1.22%
```

Run 3: Report of LEDBAT — Data Link



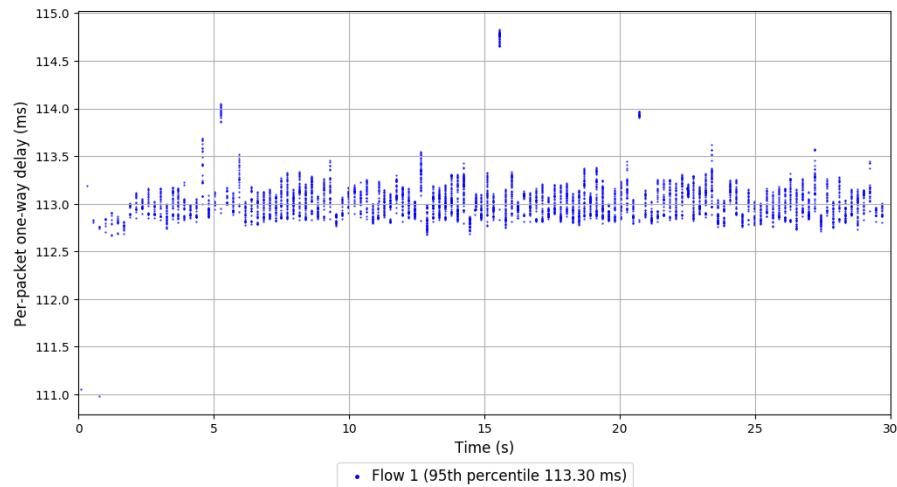
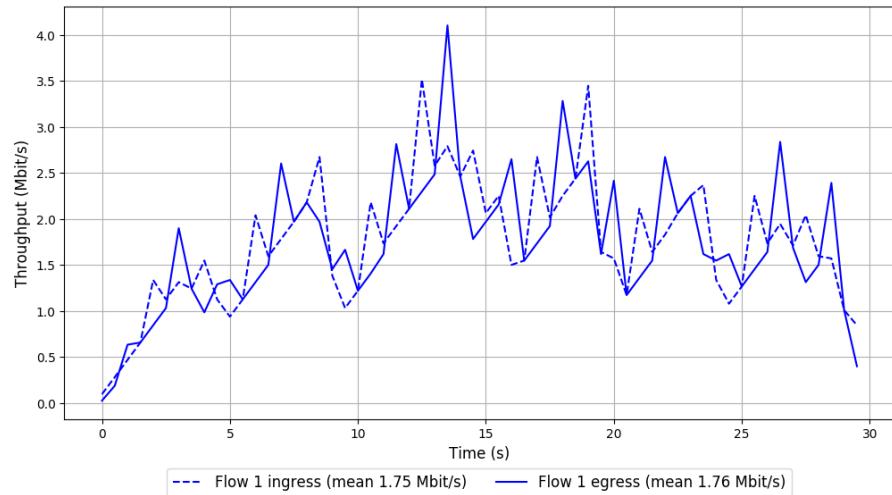
Run 4: Statistics of LEDBAT

Start at: 2017-09-17 21:33:08

End at: 2017-09-17 21:33:38

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 113.304 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 113.304 ms
Loss rate: 0.45%
```

Run 4: Report of LEDBAT — Data Link



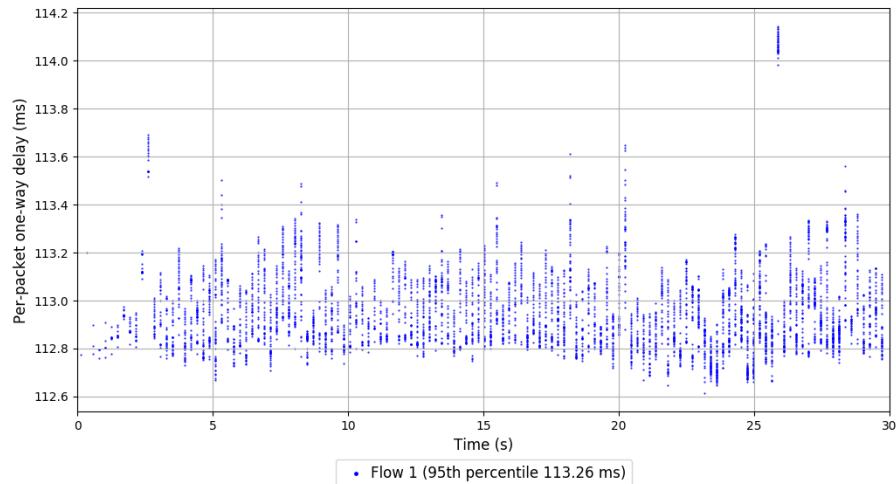
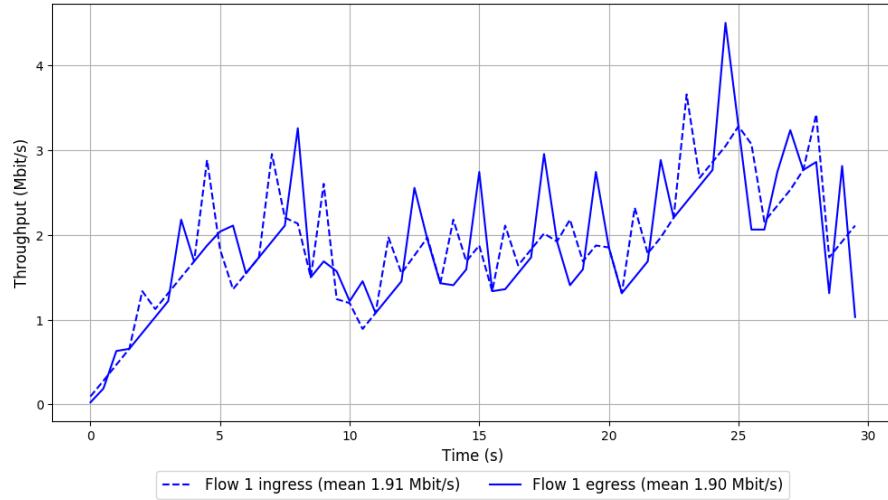
Run 5: Statistics of LEDBAT

Start at: 2017-09-17 21:45:03

End at: 2017-09-17 21:45:33

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 113.263 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 113.263 ms
Loss rate: 1.09%
```

Run 5: Report of LEDBAT — Data Link



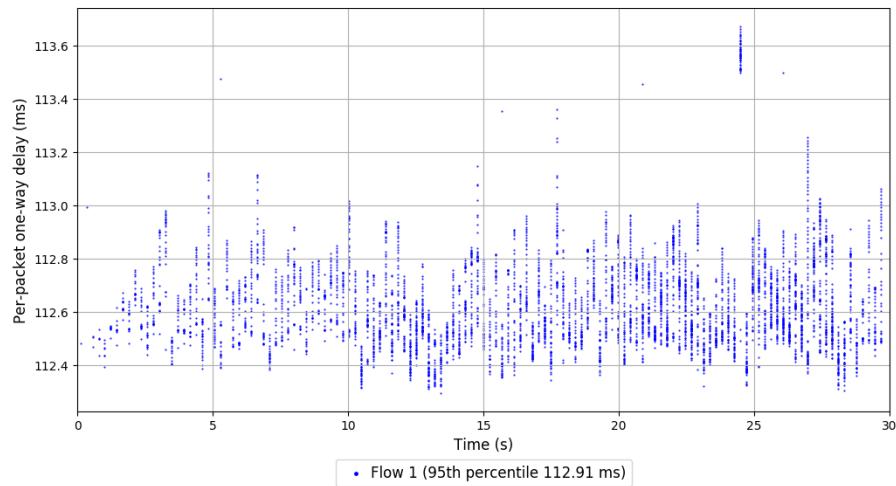
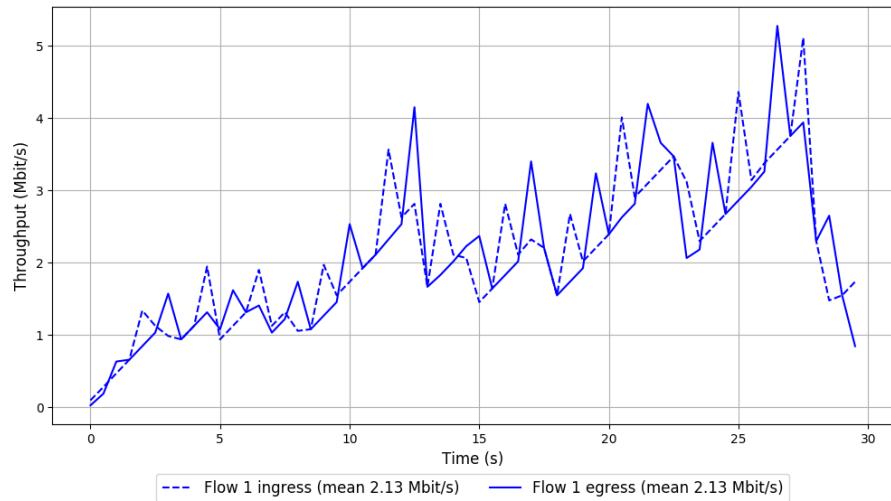
Run 6: Statistics of LEDBAT

Start at: 2017-09-17 21:57:16

End at: 2017-09-17 21:57:47

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 112.909 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 112.909 ms
Loss rate: 0.70%
```

Run 6: Report of LEDBAT — Data Link



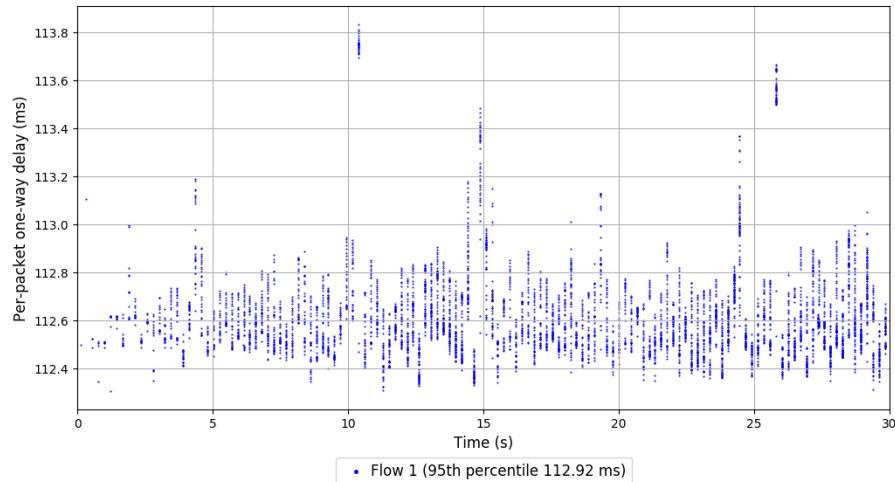
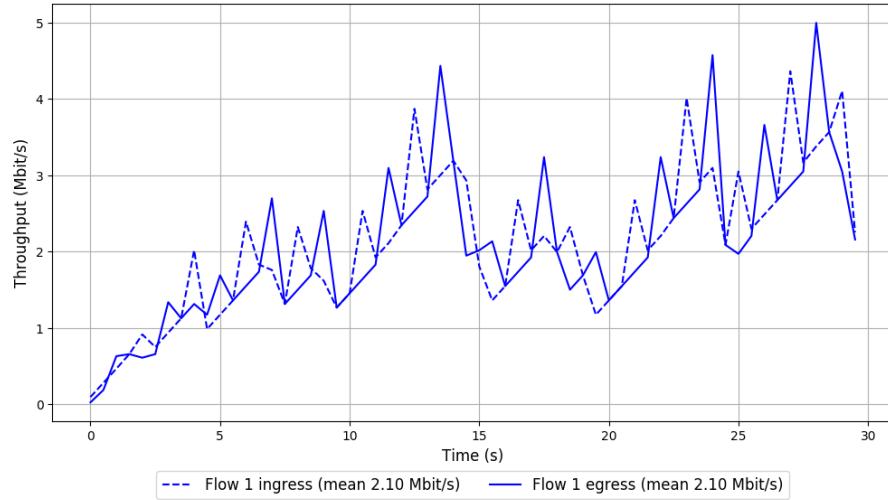
Run 7: Statistics of LEDBAT

Start at: 2017-09-17 22:09:16

End at: 2017-09-17 22:09:46

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 112.917 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 112.917 ms
Loss rate: 0.91%
```

Run 7: Report of LEDBAT — Data Link



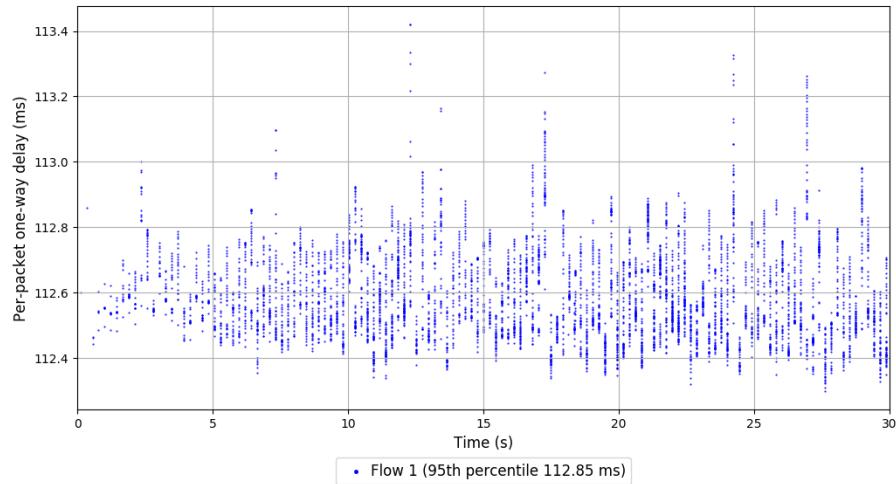
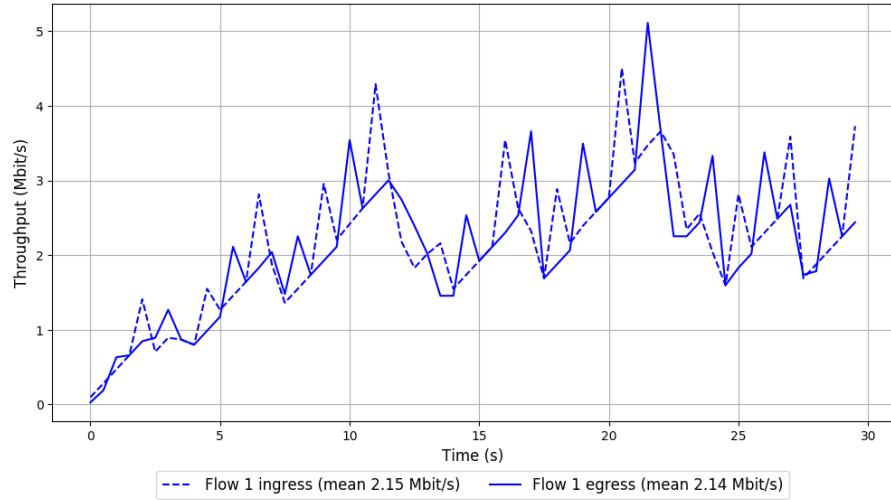
Run 8: Statistics of LEDBAT

Start at: 2017-09-17 22:21:29

End at: 2017-09-17 22:21:59

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 112.846 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 112.846 ms
Loss rate: 1.36%
```

Run 8: Report of LEDBAT — Data Link



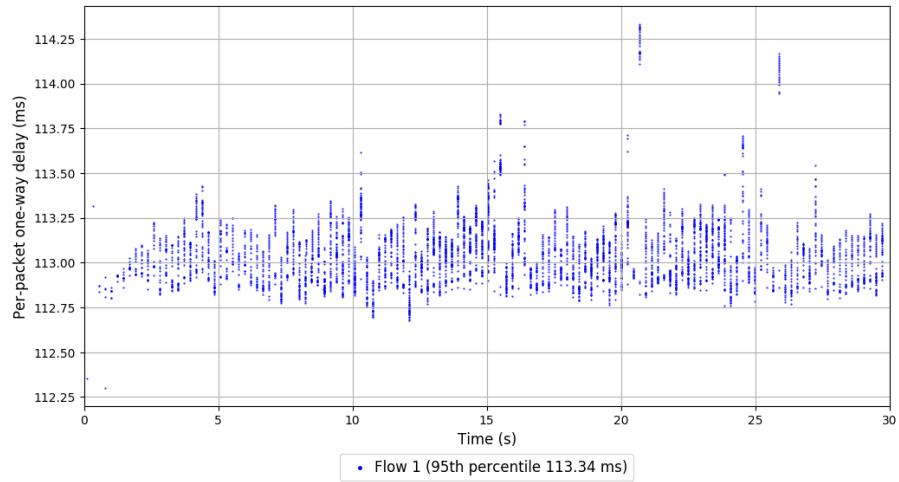
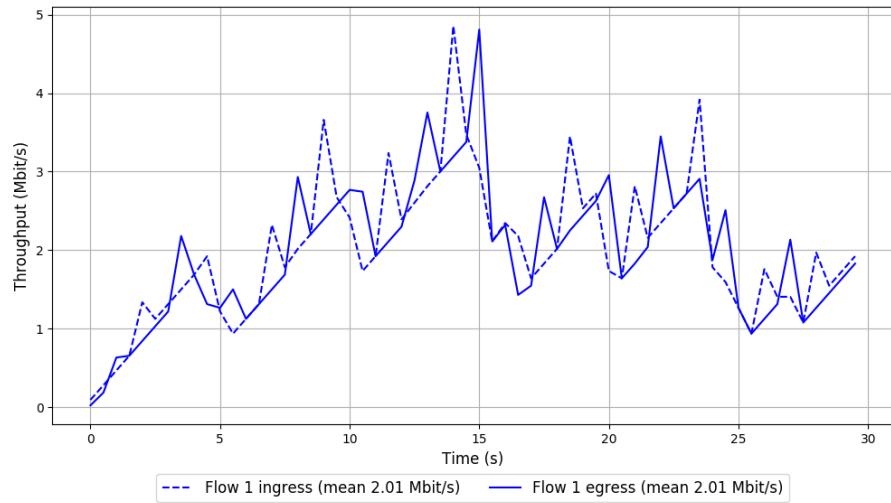
Run 9: Statistics of LEDBAT

Start at: 2017-09-17 22:33:27

End at: 2017-09-17 22:33:57

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 113.338 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 2.01 Mbit/s
95th percentile per-packet one-way delay: 113.338 ms
Loss rate: 0.98%
```

Run 9: Report of LEDBAT — Data Link



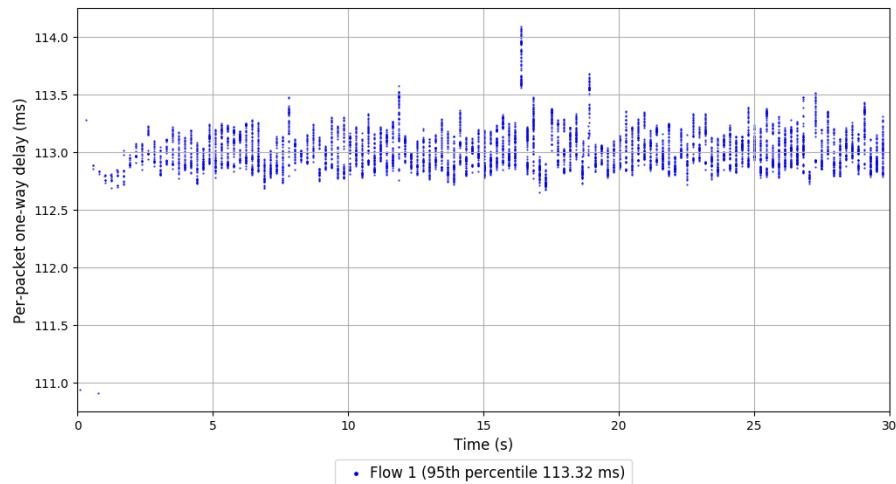
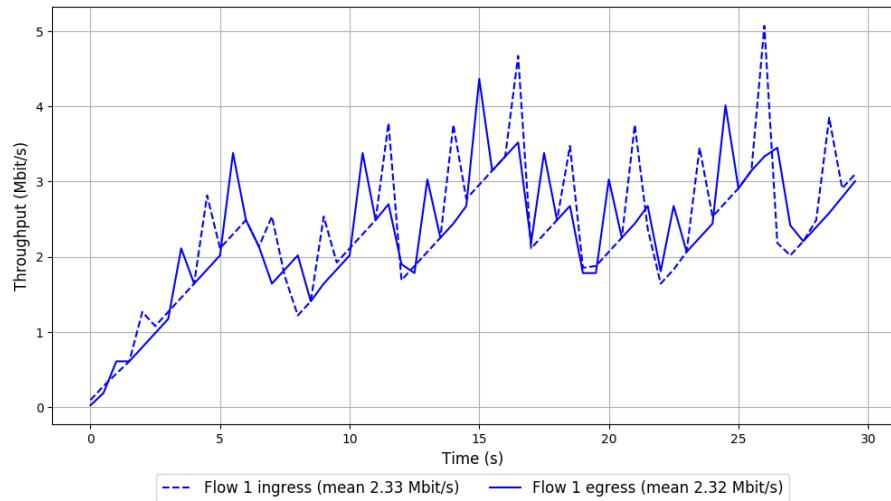
Run 10: Statistics of LEDBAT

Start at: 2017-09-17 22:45:21

End at: 2017-09-17 22:45:51

```
# Below is generated by plot.py at 2017-09-18 01:24:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 113.324 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 113.324 ms
Loss rate: 1.18%
```

Run 10: Report of LEDBAT — Data Link

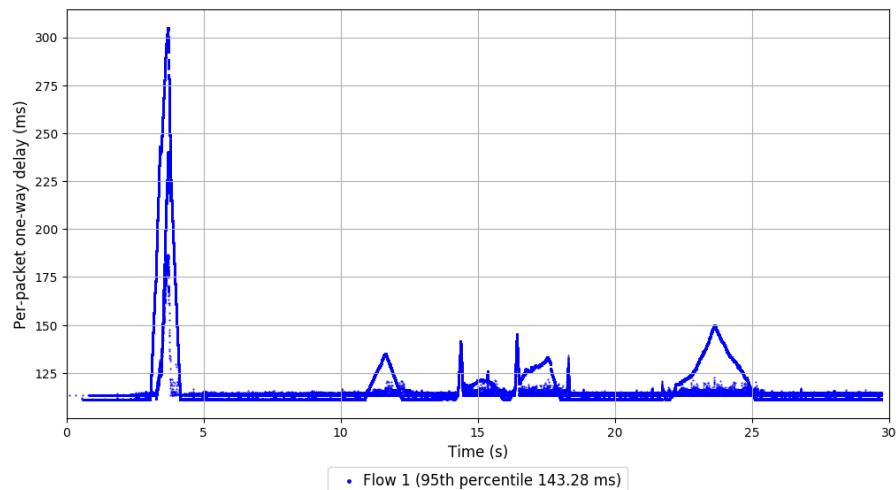
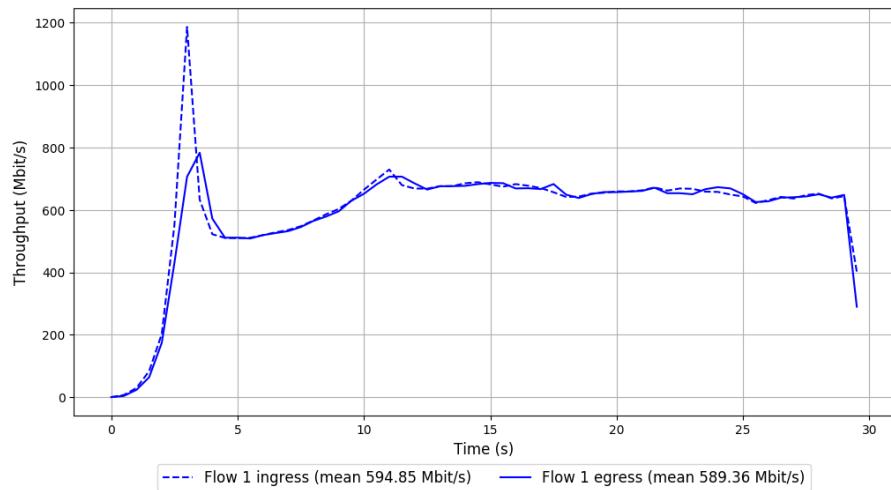


```
Run 1: Statistics of PCC

Start at: 2017-09-17 20:52:04
End at: 2017-09-17 20:52:34

# Below is generated by plot.py at 2017-09-18 01:32:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.36 Mbit/s
95th percentile per-packet one-way delay: 143.278 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 589.36 Mbit/s
95th percentile per-packet one-way delay: 143.278 ms
Loss rate: 1.68%
```

Run 1: Report of PCC — Data Link



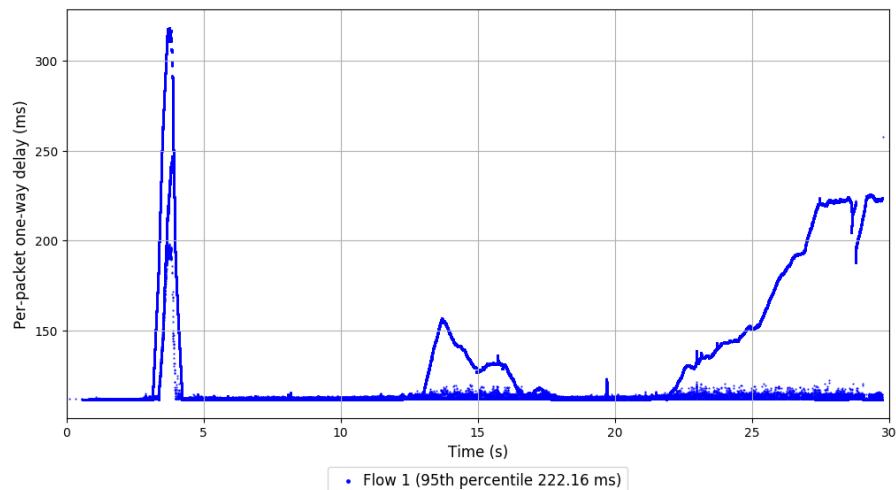
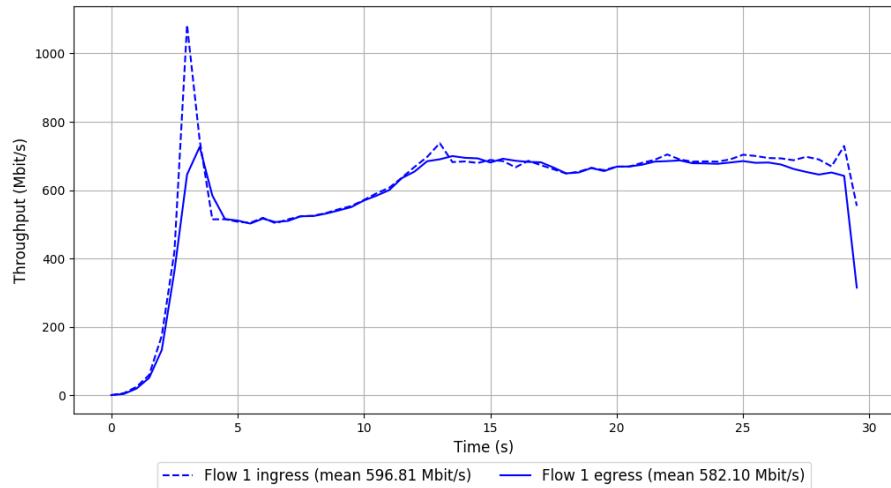
Run 2: Statistics of PCC

Start at: 2017-09-17 21:04:08

End at: 2017-09-17 21:04:38

```
# Below is generated by plot.py at 2017-09-18 01:32:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 582.10 Mbit/s
95th percentile per-packet one-way delay: 222.156 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 582.10 Mbit/s
95th percentile per-packet one-way delay: 222.156 ms
Loss rate: 3.16%
```

Run 2: Report of PCC — Data Link



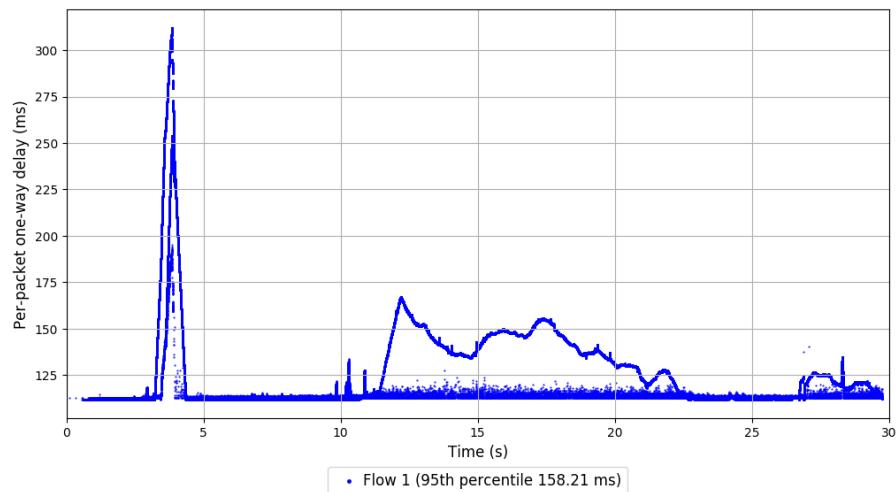
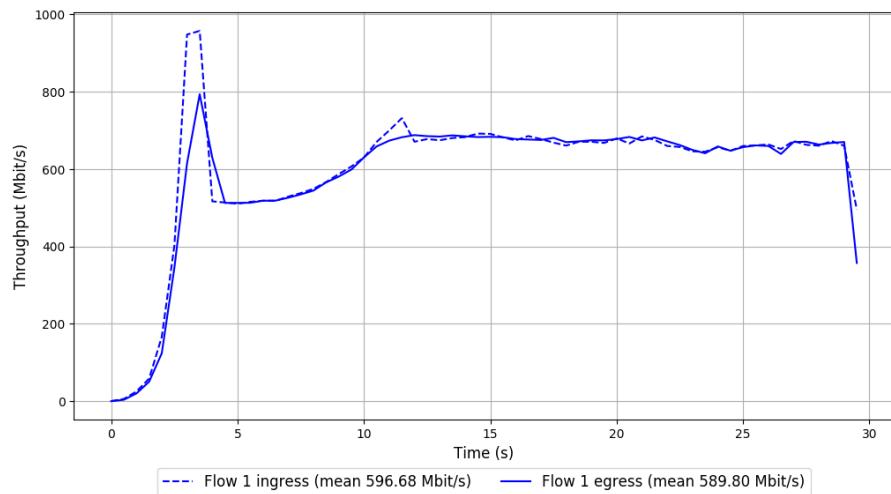
Run 3: Statistics of PCC

Start at: 2017-09-17 21:16:02

End at: 2017-09-17 21:16:32

```
# Below is generated by plot.py at 2017-09-18 01:32:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.80 Mbit/s
95th percentile per-packet one-way delay: 158.209 ms
Loss rate: 1.89%
-- Flow 1:
Average throughput: 589.80 Mbit/s
95th percentile per-packet one-way delay: 158.209 ms
Loss rate: 1.89%
```

Run 3: Report of PCC — Data Link



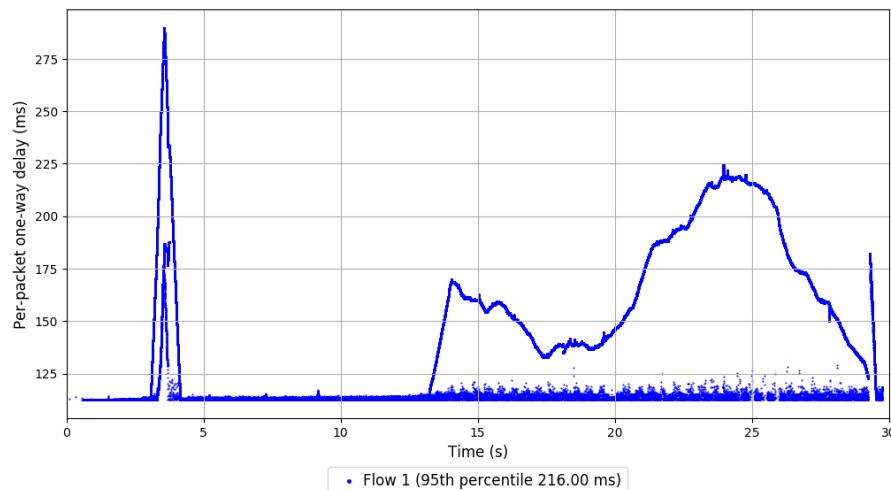
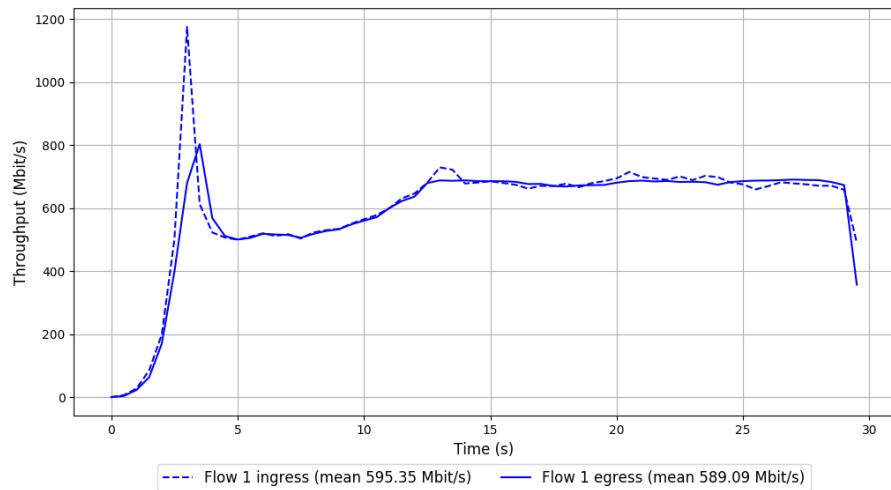
Run 4: Statistics of PCC

Start at: 2017-09-17 21:27:53

End at: 2017-09-17 21:28:23

```
# Below is generated by plot.py at 2017-09-18 01:32:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 589.09 Mbit/s
95th percentile per-packet one-way delay: 215.996 ms
Loss rate: 1.79%
-- Flow 1:
Average throughput: 589.09 Mbit/s
95th percentile per-packet one-way delay: 215.996 ms
Loss rate: 1.79%
```

Run 4: Report of PCC — Data Link



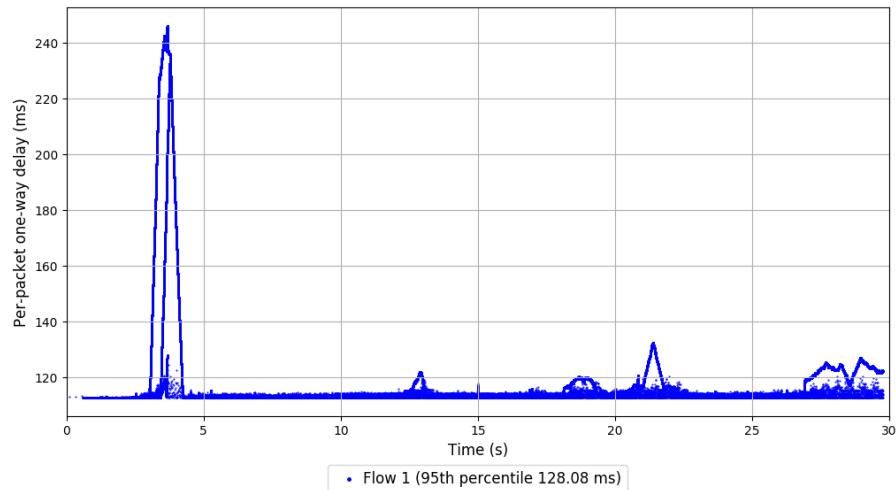
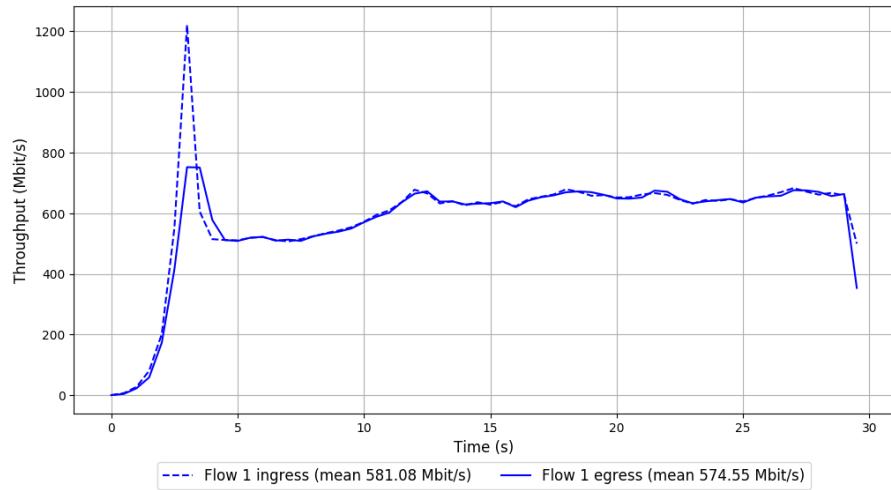
Run 5: Statistics of PCC

Start at: 2017-09-17 21:39:52

End at: 2017-09-17 21:40:22

```
# Below is generated by plot.py at 2017-09-18 01:32:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 574.55 Mbit/s
95th percentile per-packet one-way delay: 128.084 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 574.55 Mbit/s
95th percentile per-packet one-way delay: 128.084 ms
Loss rate: 1.87%
```

Run 5: Report of PCC — Data Link



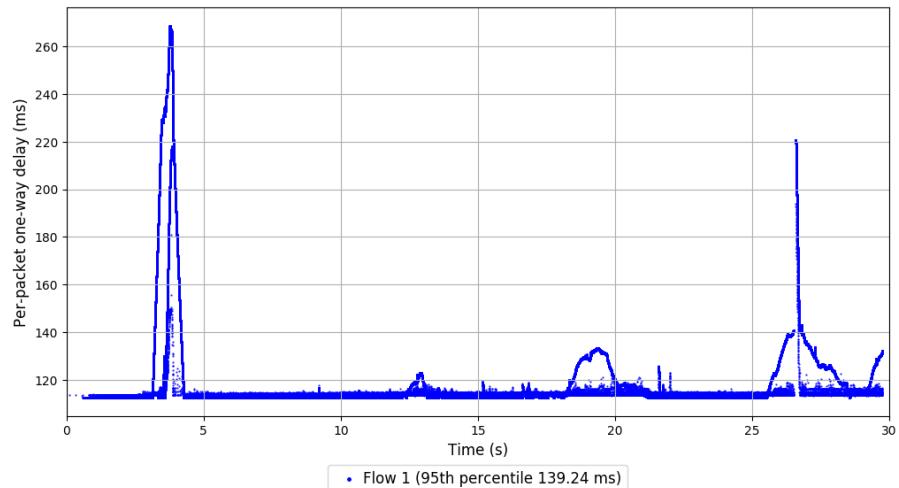
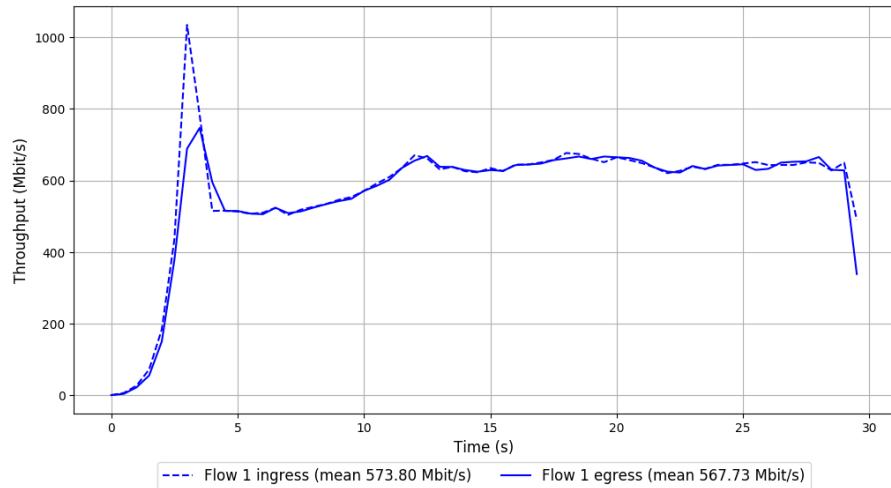
Run 6: Statistics of PCC

Start at: 2017-09-17 21:52:02

End at: 2017-09-17 21:52:32

```
# Below is generated by plot.py at 2017-09-18 01:32:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 567.73 Mbit/s
95th percentile per-packet one-way delay: 139.238 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 567.73 Mbit/s
95th percentile per-packet one-way delay: 139.238 ms
Loss rate: 1.80%
```

Run 6: Report of PCC — Data Link

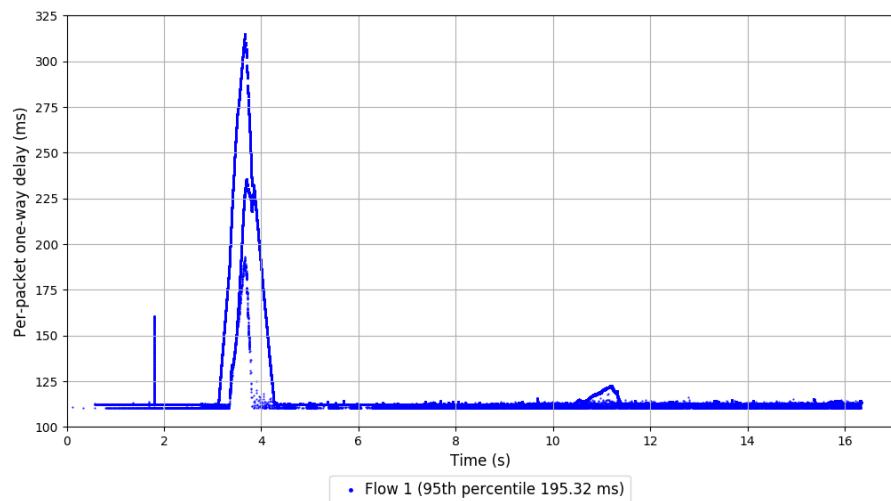
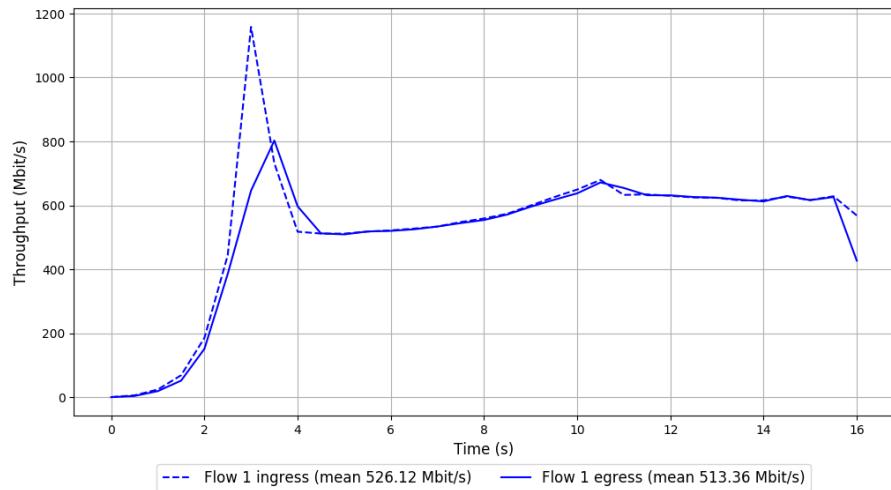


Run 7: Statistics of PCC

Start at: 2017-09-17 22:04:14

End at: 2017-09-17 22:04:44

Run 7: Report of PCC — Data Link



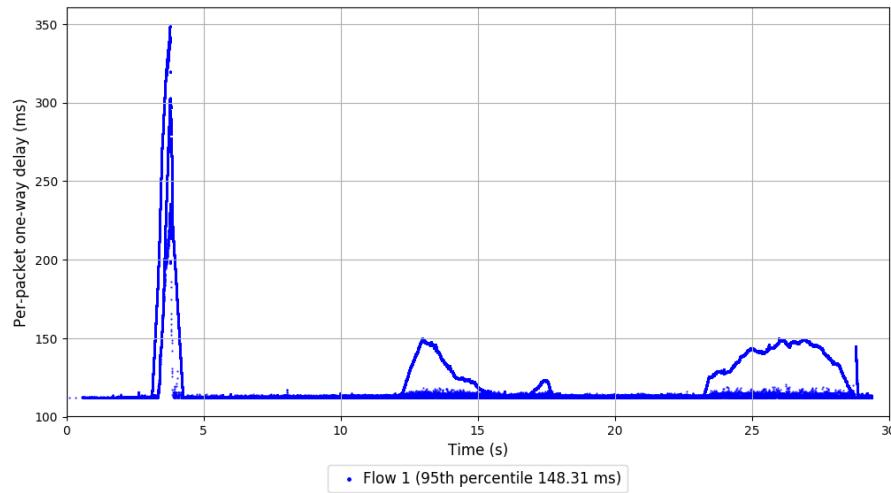
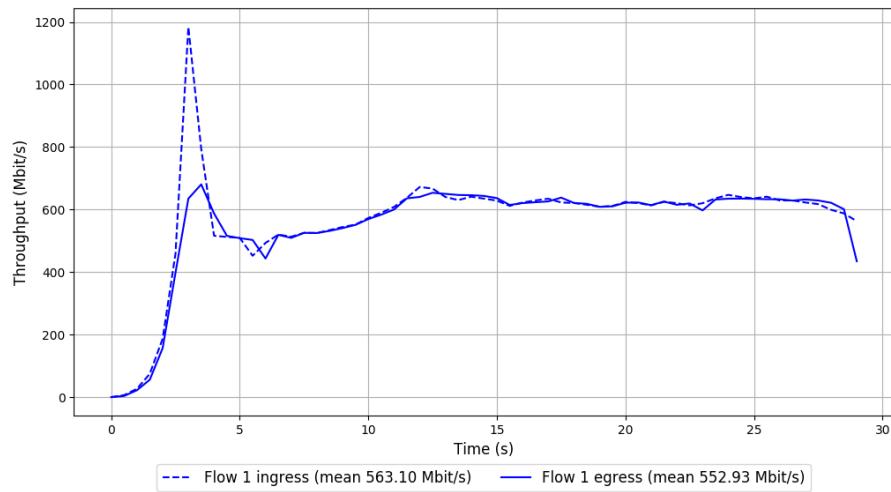
Run 8: Statistics of PCC

Start at: 2017-09-17 22:16:17

End at: 2017-09-17 22:16:47

```
# Below is generated by plot.py at 2017-09-18 01:34:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 552.93 Mbit/s
95th percentile per-packet one-way delay: 148.315 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 552.93 Mbit/s
95th percentile per-packet one-way delay: 148.315 ms
Loss rate: 2.56%
```

Run 8: Report of PCC — Data Link



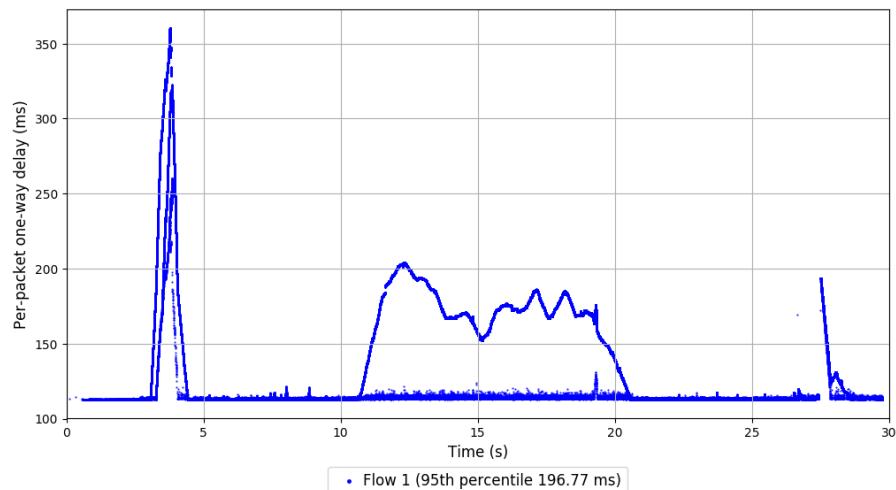
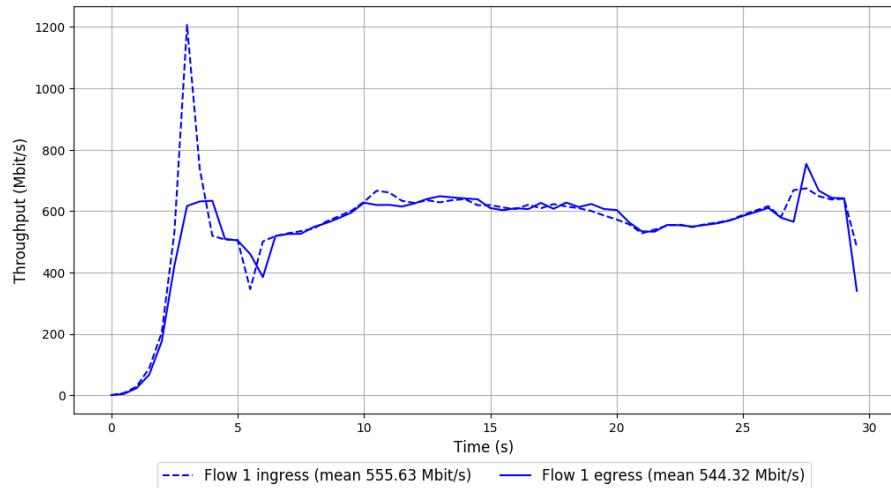
Run 9: Statistics of PCC

Start at: 2017-09-17 22:28:13

End at: 2017-09-17 22:28:44

```
# Below is generated by plot.py at 2017-09-18 01:40:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 544.32 Mbit/s
95th percentile per-packet one-way delay: 196.773 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 544.32 Mbit/s
95th percentile per-packet one-way delay: 196.773 ms
Loss rate: 2.78%
```

Run 9: Report of PCC — Data Link



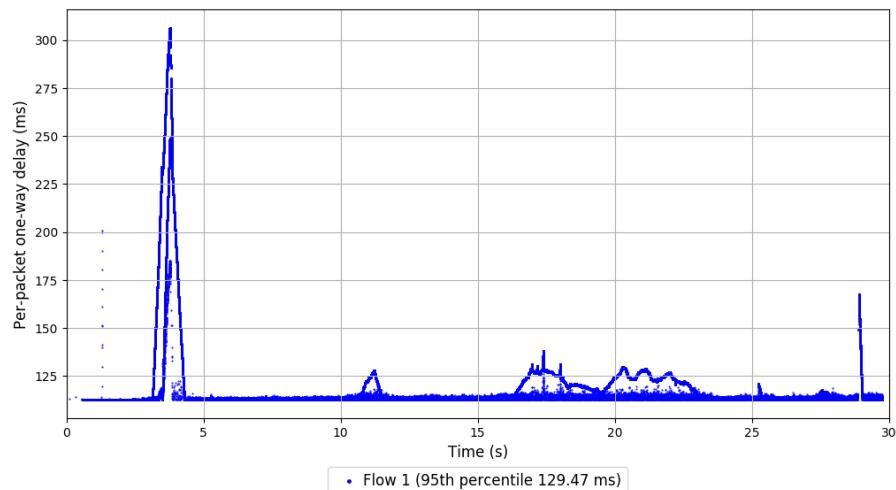
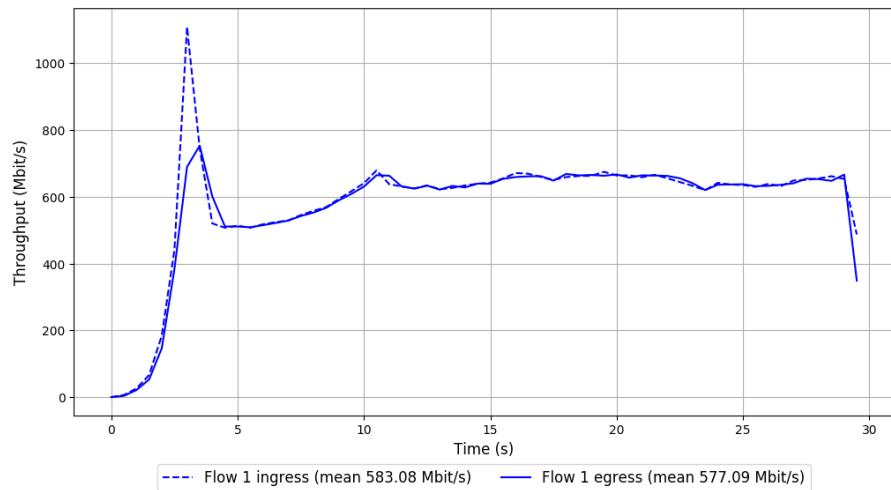
Run 10: Statistics of PCC

Start at: 2017-09-17 22:40:07

End at: 2017-09-17 22:40:37

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 577.09 Mbit/s
95th percentile per-packet one-way delay: 129.471 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 577.09 Mbit/s
95th percentile per-packet one-way delay: 129.471 ms
Loss rate: 1.77%
```

Run 10: Report of PCC — Data Link

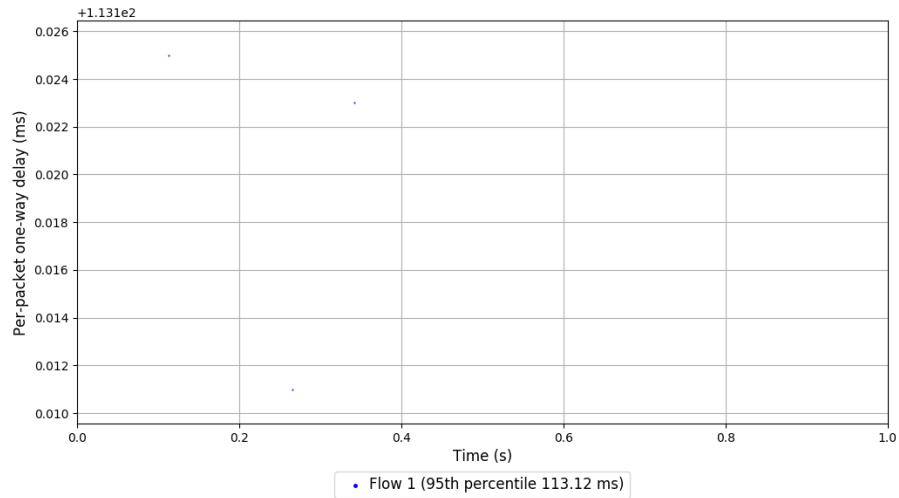
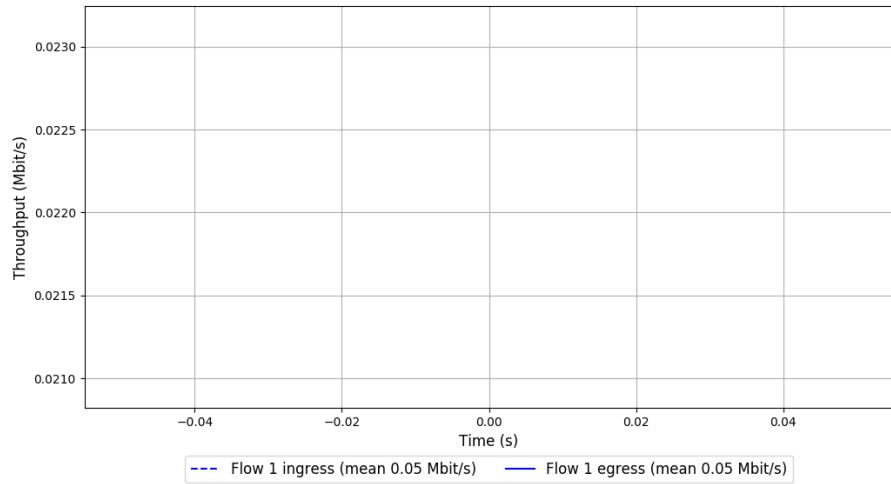


Run 1: Statistics of QUIC Cubic

Start at: 2017-09-17 20:53:50

End at: 2017-09-17 20:54:20

Run 1: Report of QUIC Cubic — Data Link



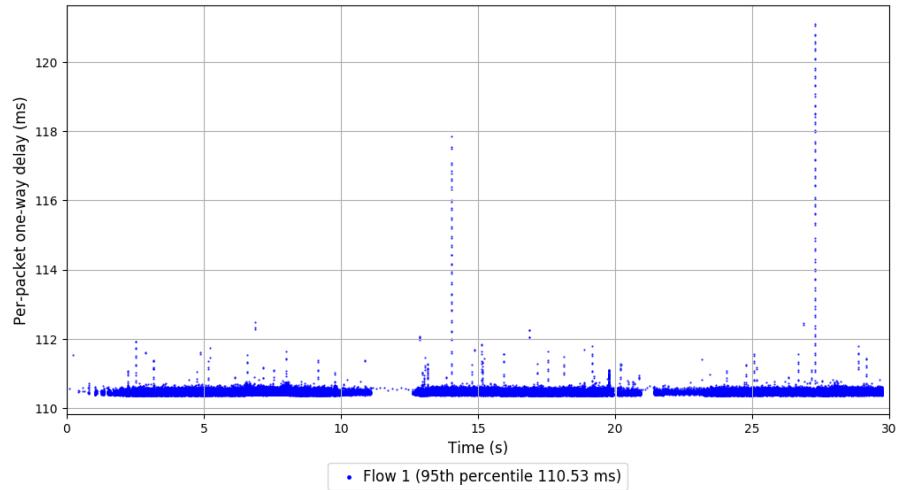
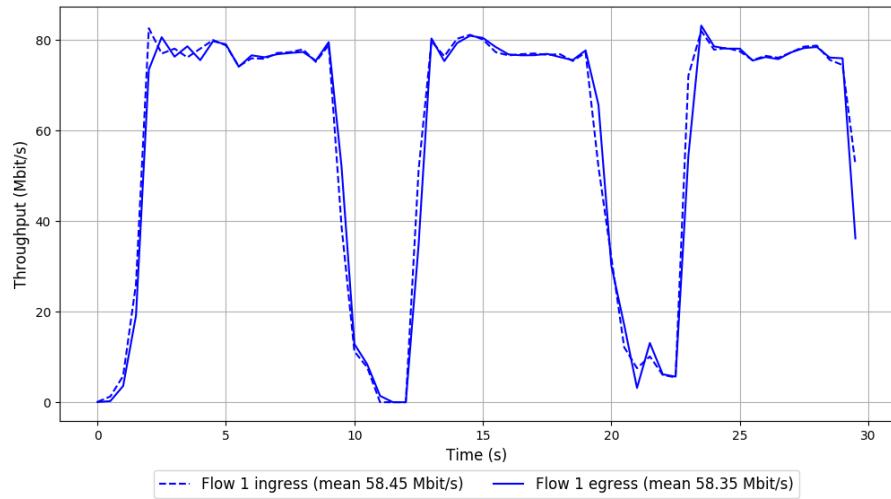
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-17 21:05:54

End at: 2017-09-17 21:06:24

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.35 Mbit/s
95th percentile per-packet one-way delay: 110.530 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 58.35 Mbit/s
95th percentile per-packet one-way delay: 110.530 ms
Loss rate: 0.92%
```

Run 2: Report of QUIC Cubic — Data Link



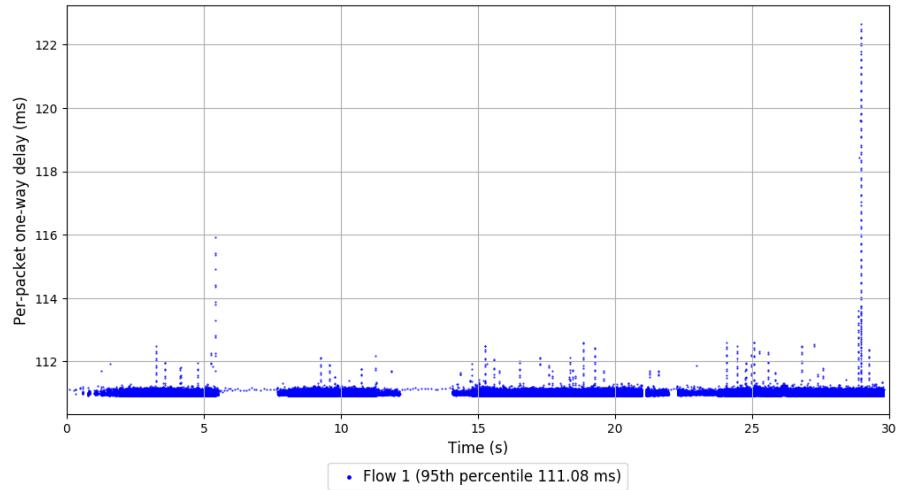
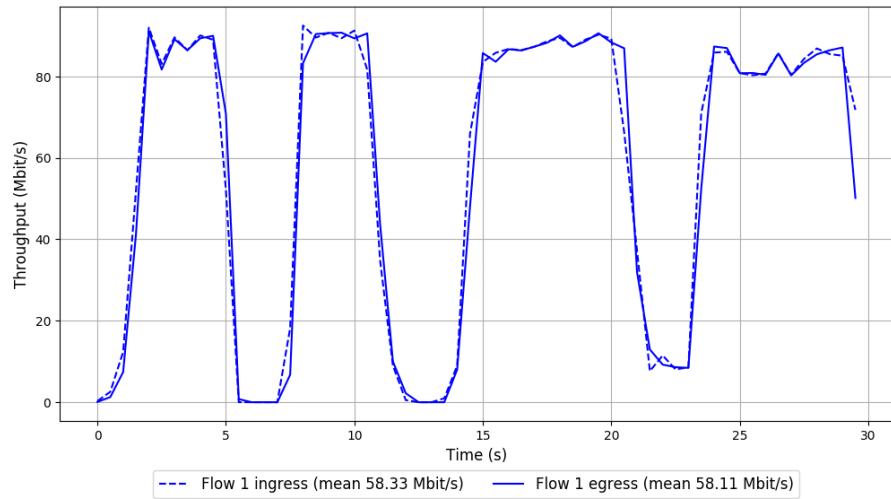
Run 3: Statistics of QUIC Cubic

Start at: 2017-09-17 21:17:47

End at: 2017-09-17 21:18:17

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.11 Mbit/s
95th percentile per-packet one-way delay: 111.080 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 58.11 Mbit/s
95th percentile per-packet one-way delay: 111.080 ms
Loss rate: 1.12%
```

Run 3: Report of QUIC Cubic — Data Link



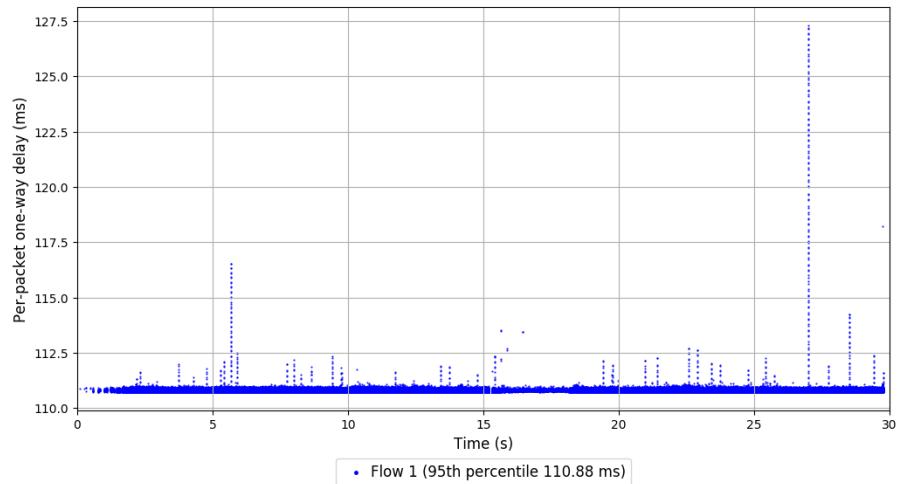
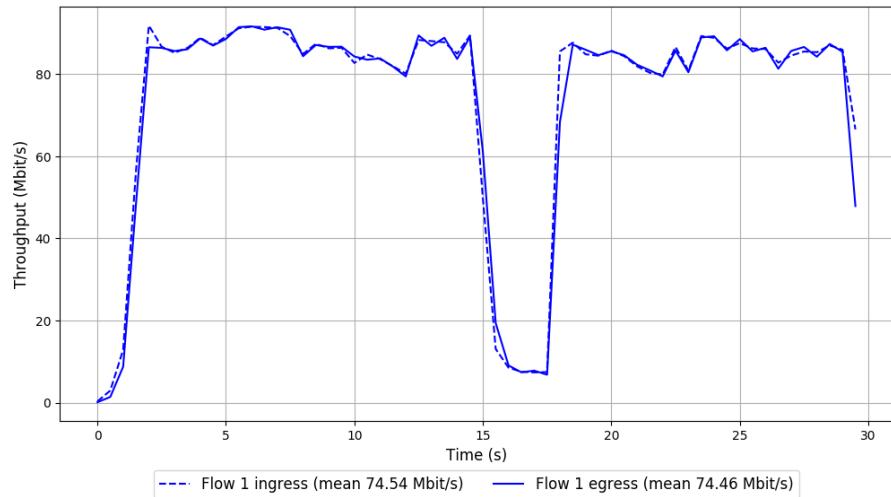
Run 4: Statistics of QUIC Cubic

Start at: 2017-09-17 21:29:39

End at: 2017-09-17 21:30:09

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.46 Mbit/s
95th percentile per-packet one-way delay: 110.879 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 74.46 Mbit/s
95th percentile per-packet one-way delay: 110.879 ms
Loss rate: 0.86%
```

Run 4: Report of QUIC Cubic — Data Link



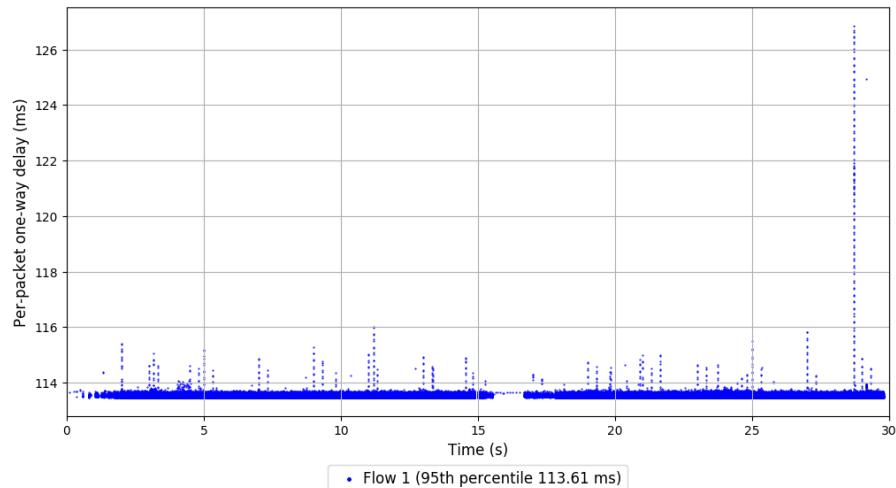
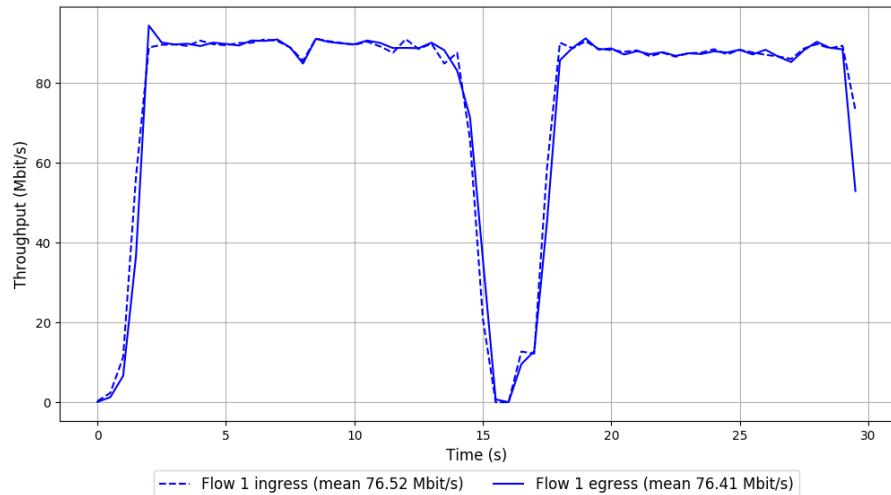
Run 5: Statistics of QUIC Cubic

Start at: 2017-09-17 21:41:38

End at: 2017-09-17 21:42:08

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.41 Mbit/s
95th percentile per-packet one-way delay: 113.612 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 76.41 Mbit/s
95th percentile per-packet one-way delay: 113.612 ms
Loss rate: 0.89%
```

Run 5: Report of QUIC Cubic — Data Link



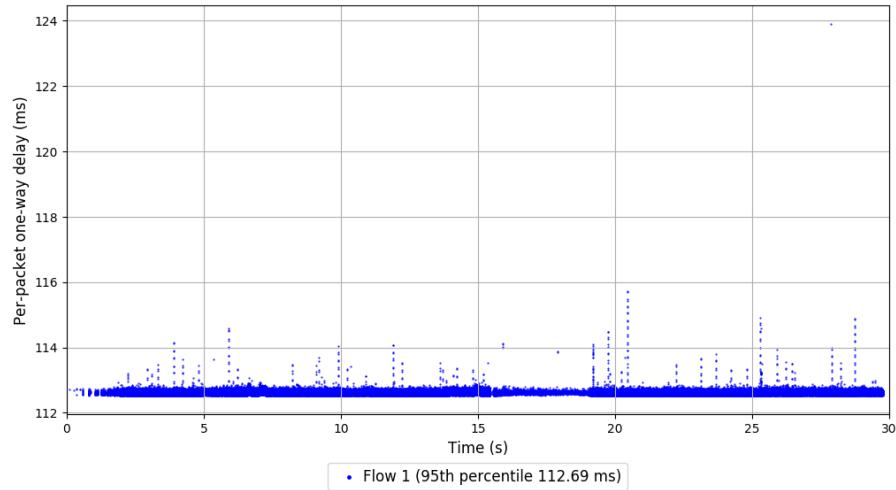
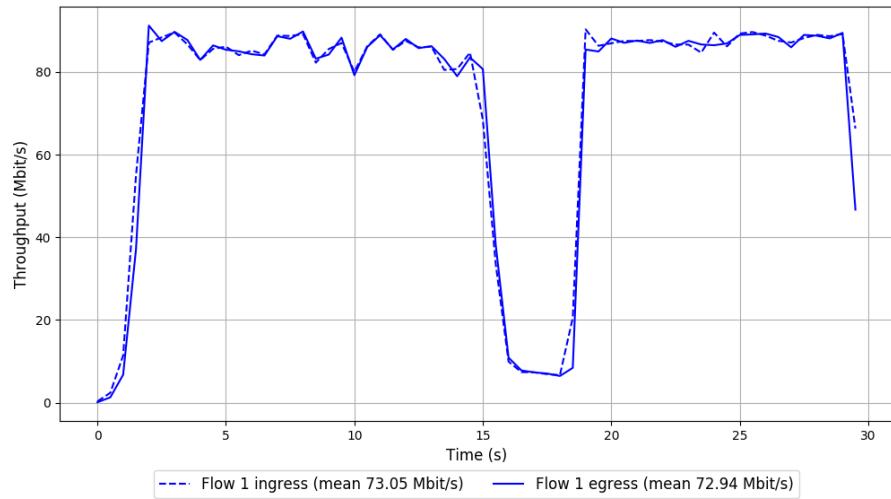
Run 6: Statistics of QUIC Cubic

Start at: 2017-09-17 21:53:47

End at: 2017-09-17 21:54:17

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.94 Mbit/s
95th percentile per-packet one-way delay: 112.689 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 72.94 Mbit/s
95th percentile per-packet one-way delay: 112.689 ms
Loss rate: 0.91%
```

Run 6: Report of QUIC Cubic — Data Link



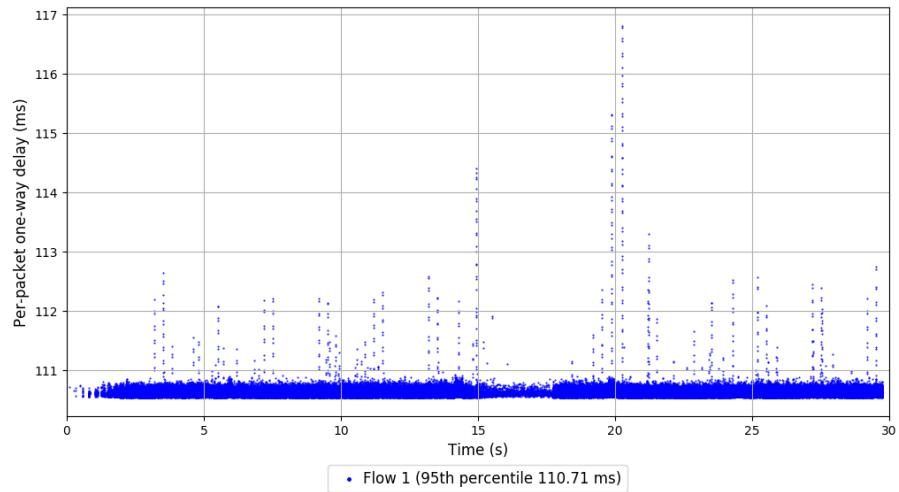
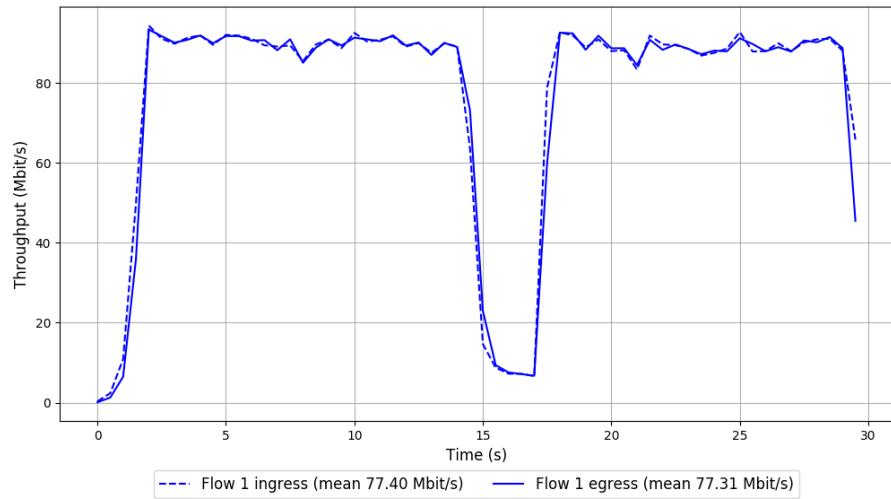
Run 7: Statistics of QUIC Cubic

Start at: 2017-09-17 22:05:47

End at: 2017-09-17 22:06:17

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.31 Mbit/s
95th percentile per-packet one-way delay: 110.709 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 77.31 Mbit/s
95th percentile per-packet one-way delay: 110.709 ms
Loss rate: 0.86%
```

Run 7: Report of QUIC Cubic — Data Link



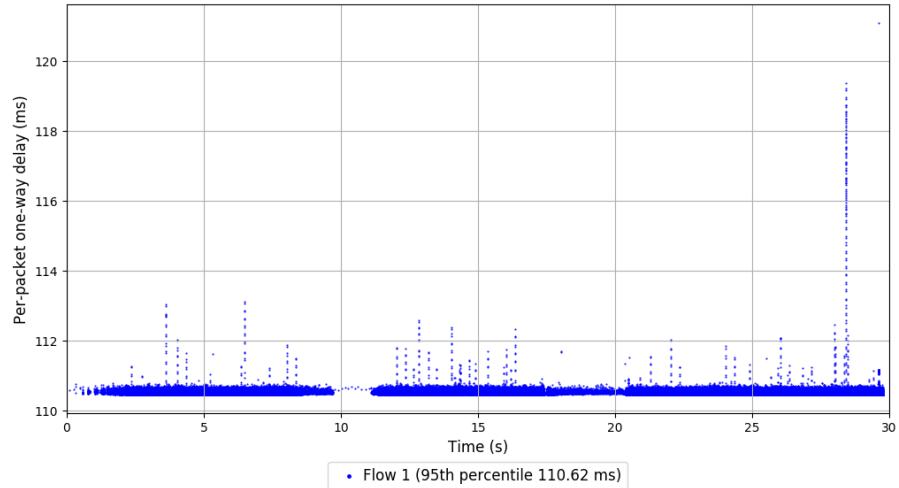
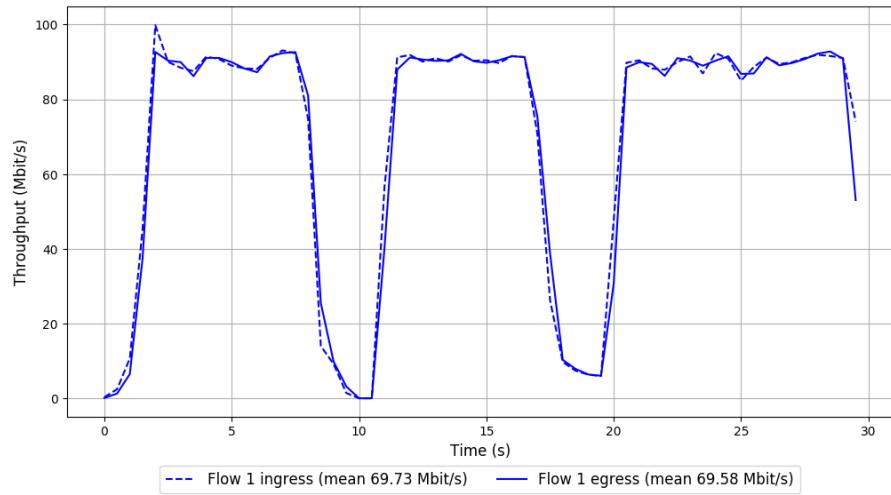
Run 8: Statistics of QUIC Cubic

Start at: 2017-09-17 22:18:01

End at: 2017-09-17 22:18:31

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.58 Mbit/s
95th percentile per-packet one-way delay: 110.619 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 69.58 Mbit/s
95th percentile per-packet one-way delay: 110.619 ms
Loss rate: 0.97%
```

Run 8: Report of QUIC Cubic — Data Link



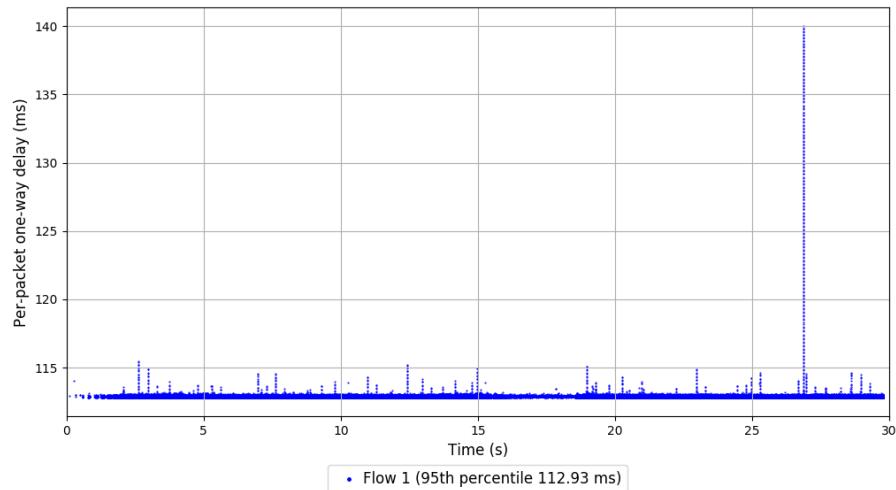
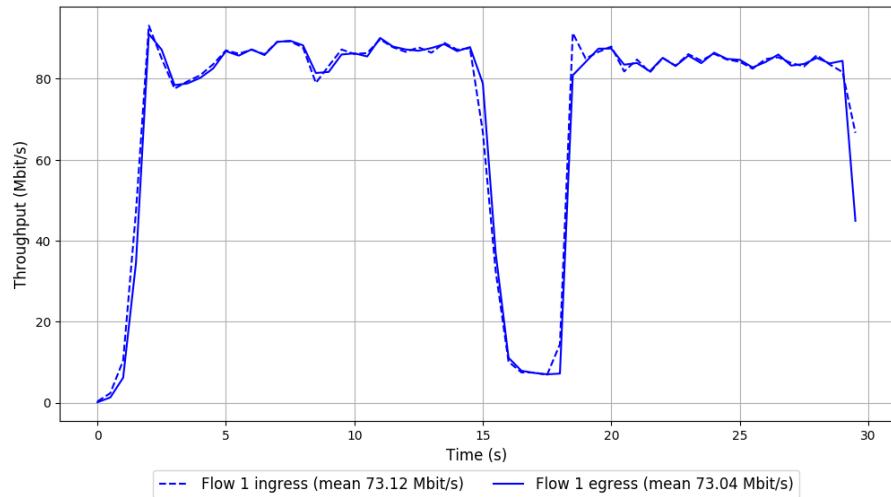
Run 9: Statistics of QUIC Cubic

Start at: 2017-09-17 22:29:58

End at: 2017-09-17 22:30:28

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.04 Mbit/s
95th percentile per-packet one-way delay: 112.926 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 73.04 Mbit/s
95th percentile per-packet one-way delay: 112.926 ms
Loss rate: 0.87%
```

Run 9: Report of QUIC Cubic — Data Link



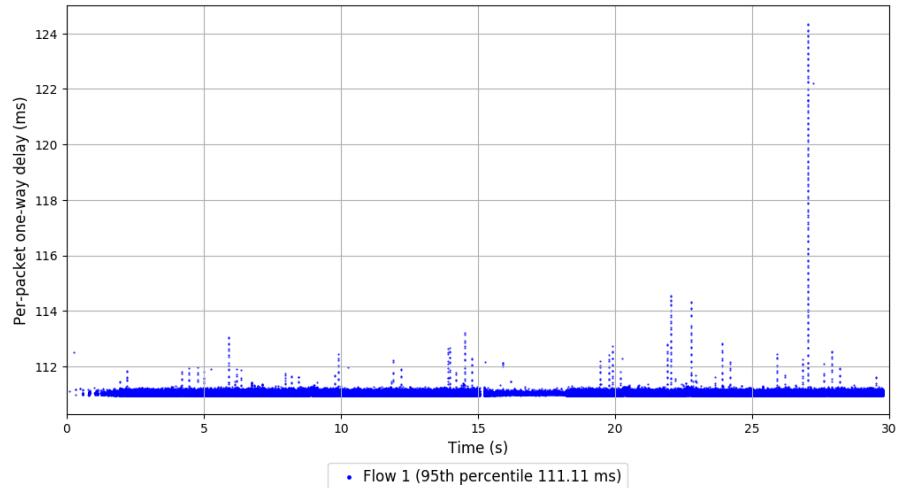
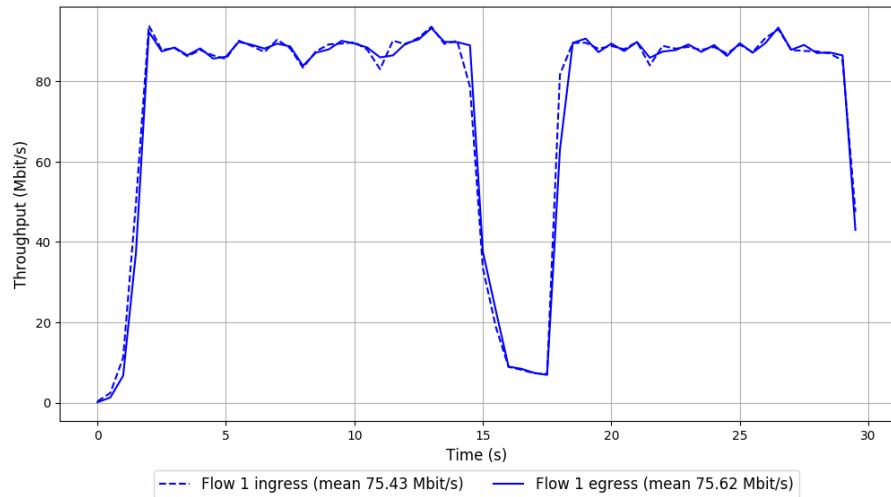
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-17 22:41:53

End at: 2017-09-17 22:42:23

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.62 Mbit/s
95th percentile per-packet one-way delay: 111.113 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 75.62 Mbit/s
95th percentile per-packet one-way delay: 111.113 ms
Loss rate: 0.50%
```

Run 10: Report of QUIC Cubic — Data Link



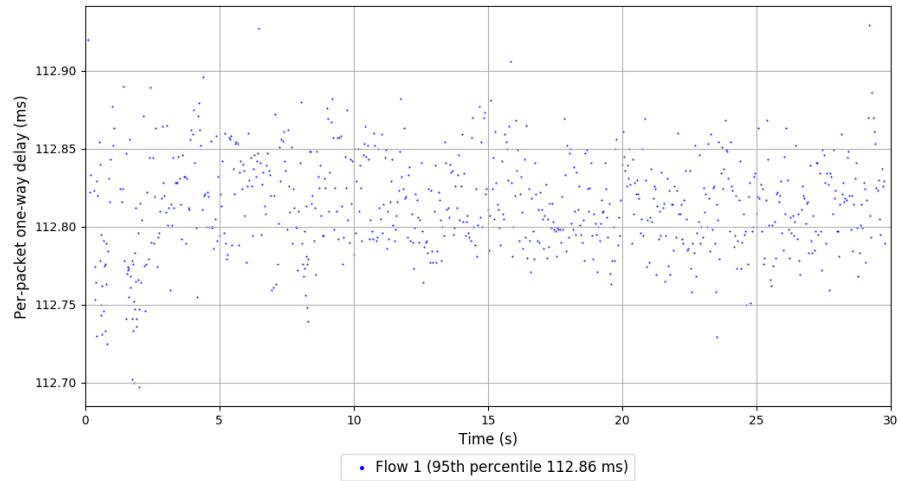
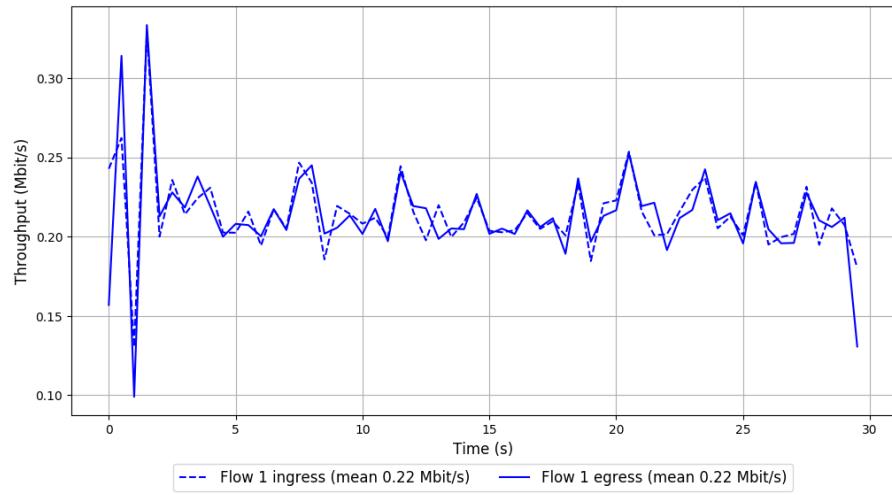
Run 1: Statistics of SCReAM

Start at: 2017-09-17 20:59:24

End at: 2017-09-17 20:59:54

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.863 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.863 ms
Loss rate: 0.76%
```

Run 1: Report of SCReAM — Data Link



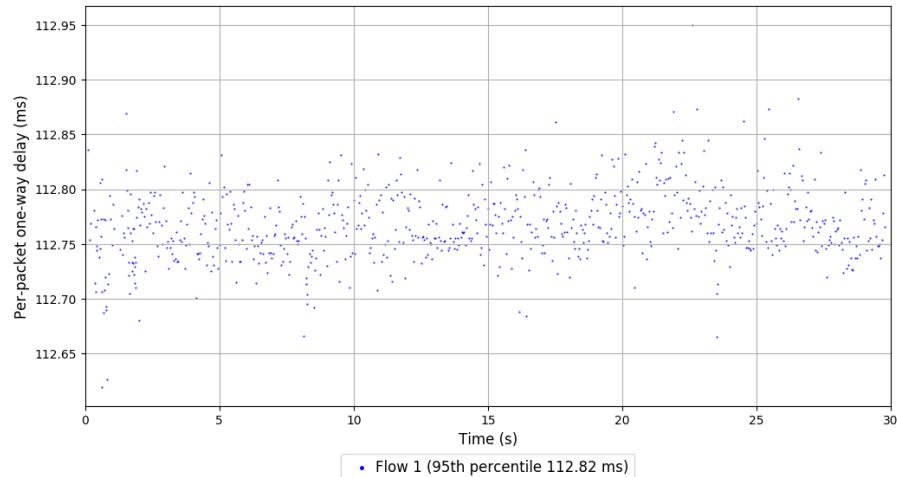
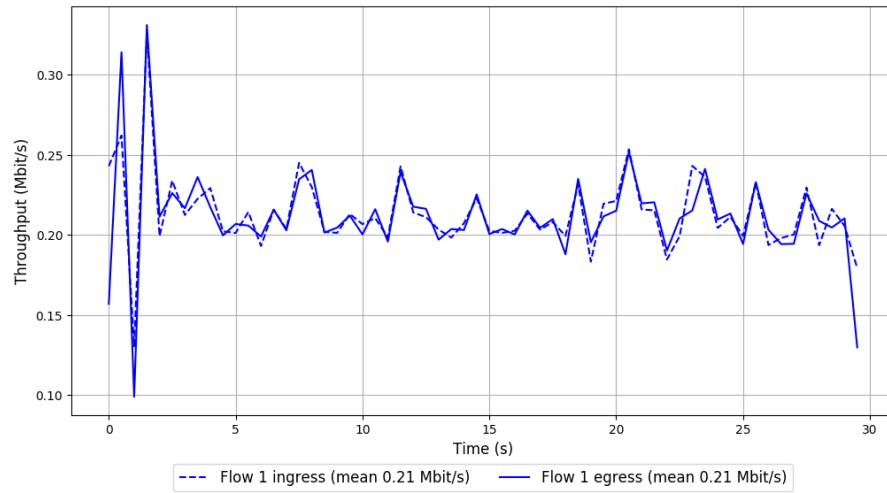
Run 2: Statistics of SCReAM

Start at: 2017-09-17 21:11:34

End at: 2017-09-17 21:12:04

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.822 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.822 ms
Loss rate: 0.76%
```

Run 2: Report of SCReAM — Data Link



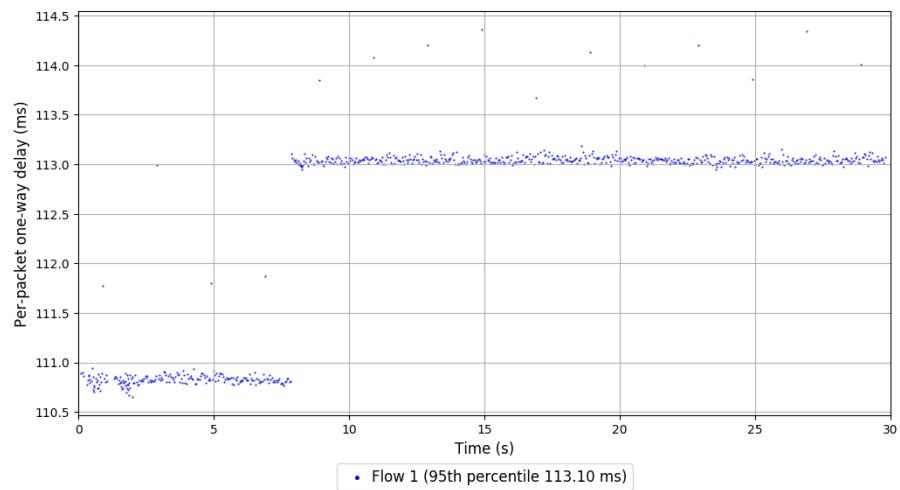
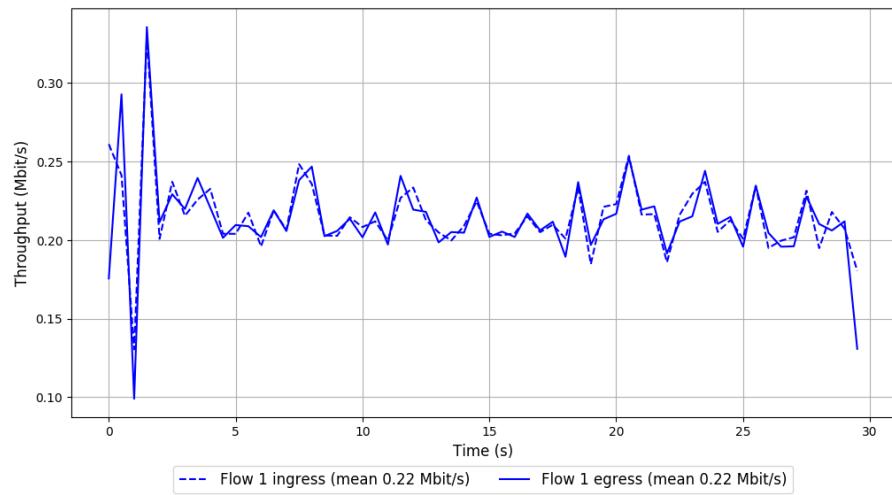
Run 3: Statistics of SCReAM

Start at: 2017-09-17 21:23:20

End at: 2017-09-17 21:23:50

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.100 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 113.100 ms
Loss rate: 0.76%
```

Run 3: Report of SCReAM — Data Link



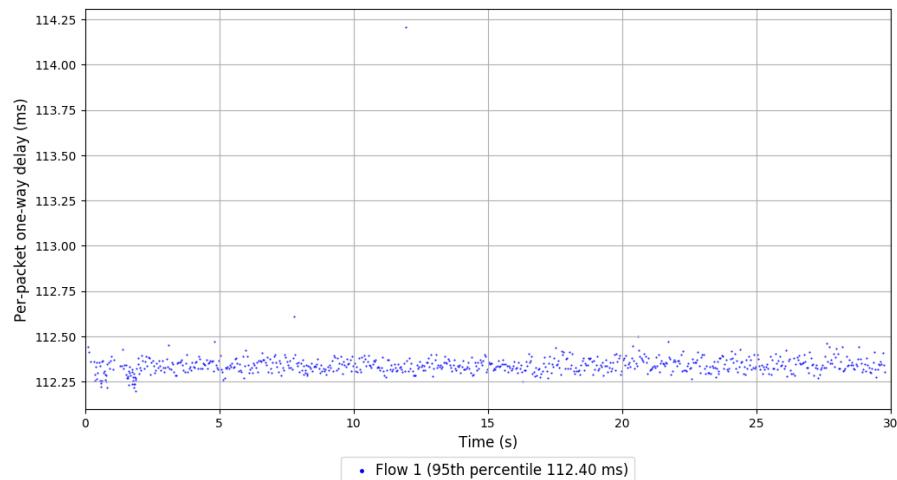
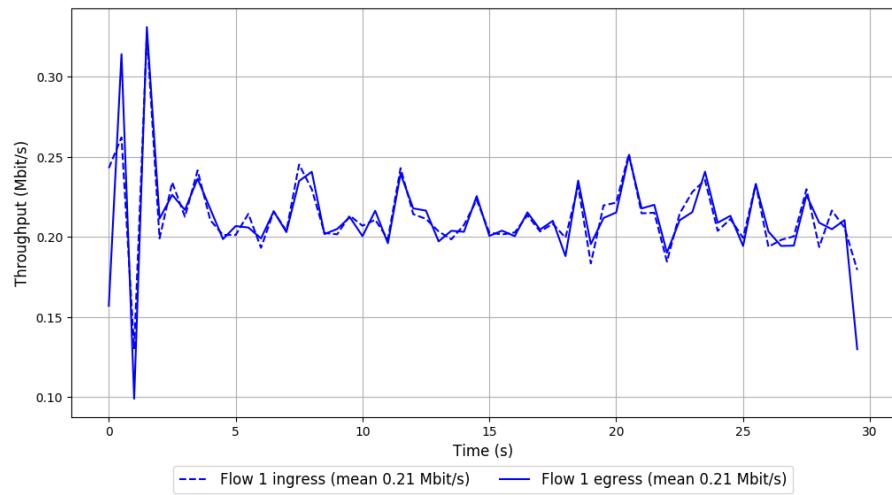
Run 4: Statistics of SCReAM

Start at: 2017-09-17 21:35:19

End at: 2017-09-17 21:35:49

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.401 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 112.401 ms
Loss rate: 0.76%
```

Run 4: Report of SCReAM — Data Link



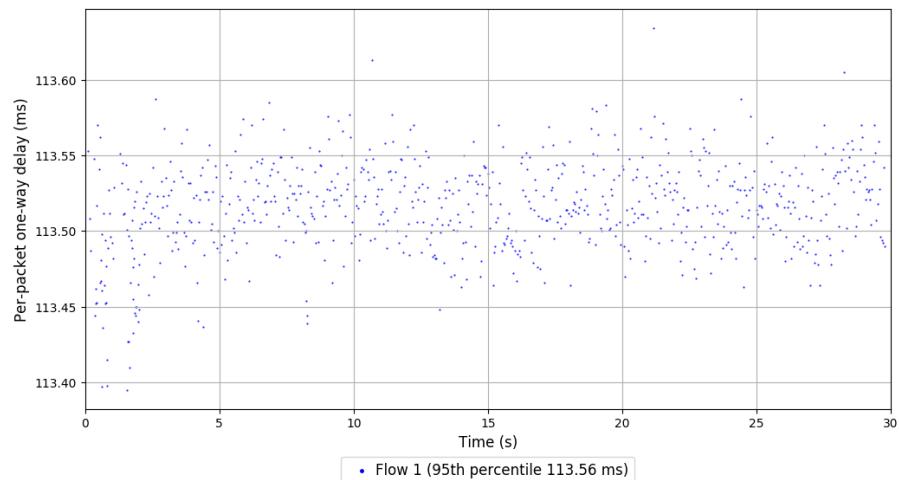
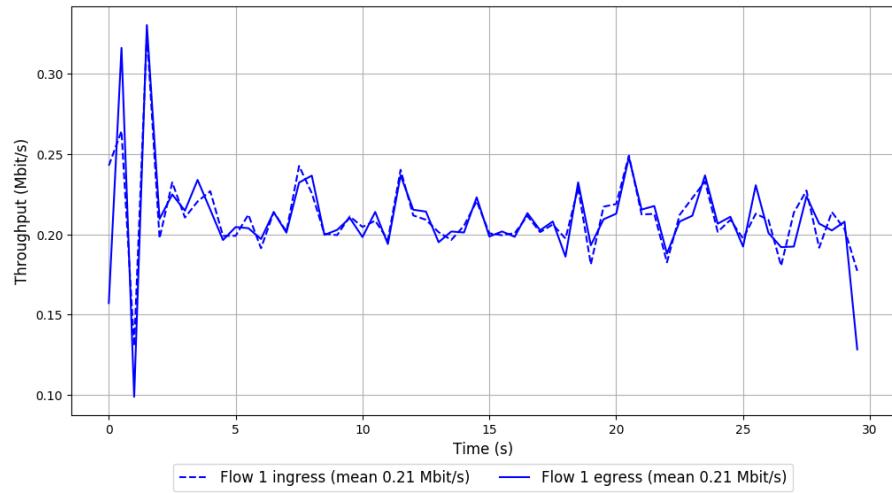
Run 5: Statistics of SCReAM

Start at: 2017-09-17 21:47:14

End at: 2017-09-17 21:47:44

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.562 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 113.562 ms
Loss rate: 0.76%
```

Run 5: Report of SCReAM — Data Link



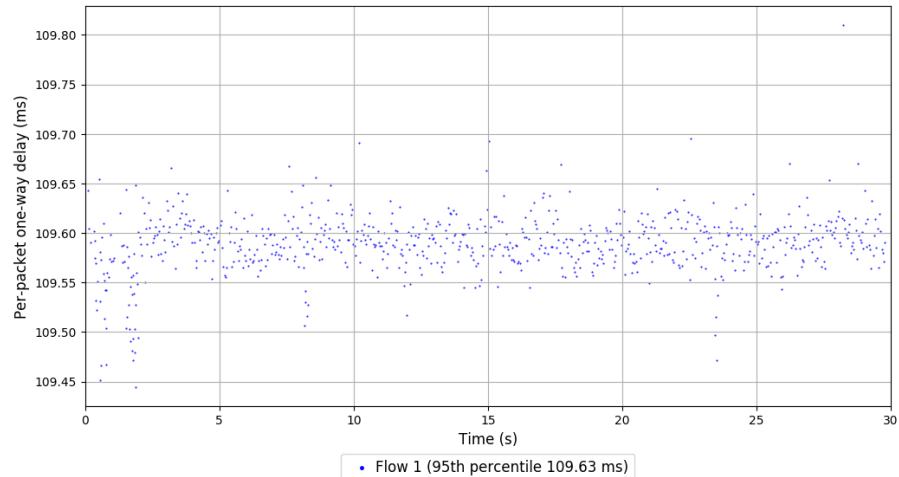
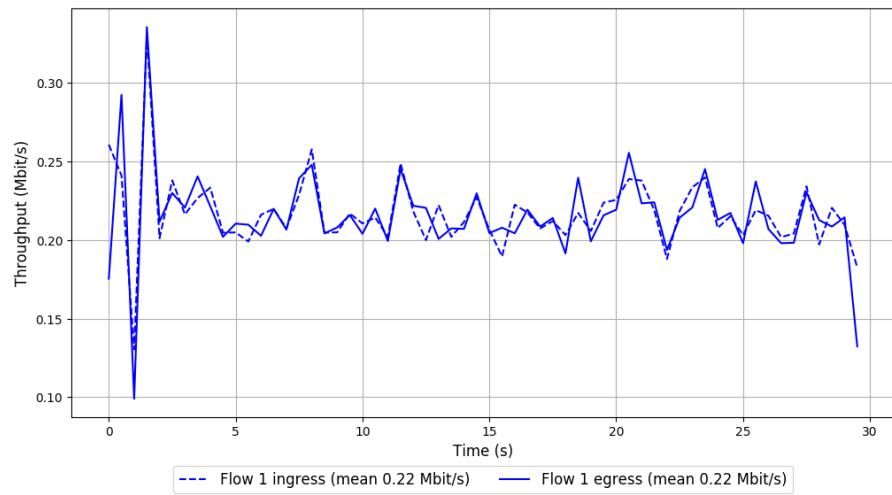
Run 6: Statistics of SCReAM

Start at: 2017-09-17 21:59:19

End at: 2017-09-17 21:59:49

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.631 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.631 ms
Loss rate: 0.77%
```

Run 6: Report of SCReAM — Data Link



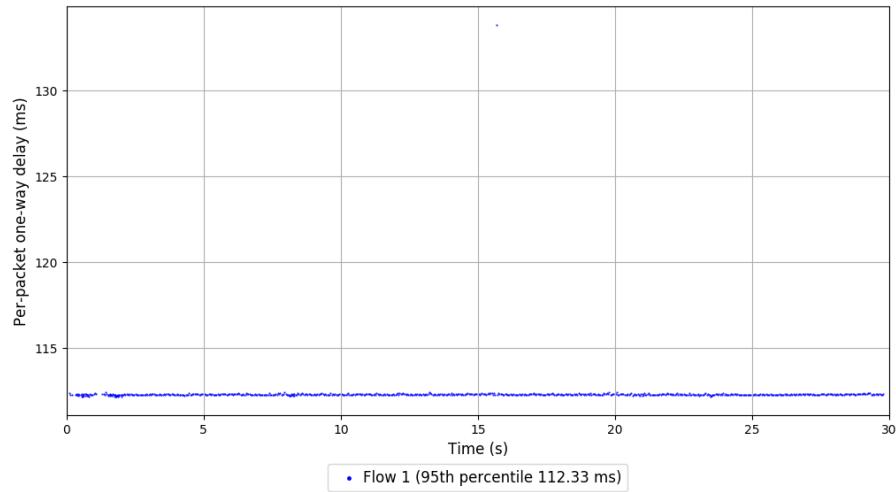
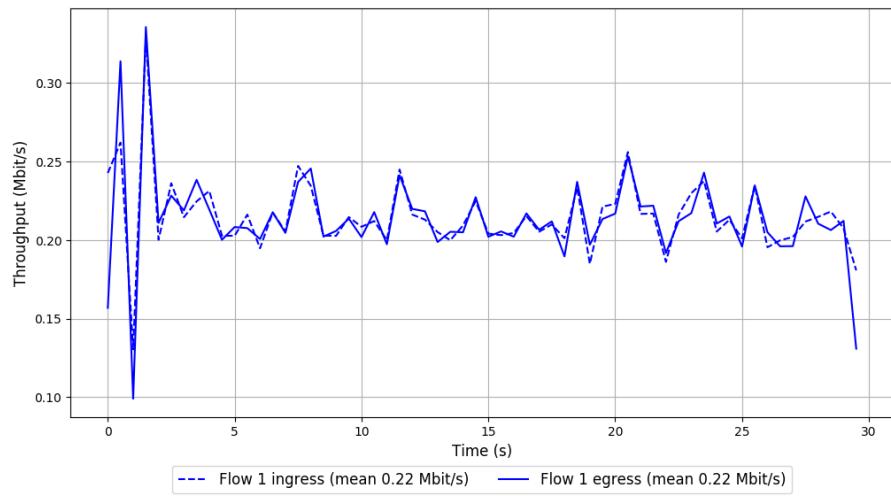
Run 7: Statistics of SCReAM

Start at: 2017-09-17 22:11:27

End at: 2017-09-17 22:11:57

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.333 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 112.333 ms
Loss rate: 0.76%
```

Run 7: Report of SCReAM — Data Link



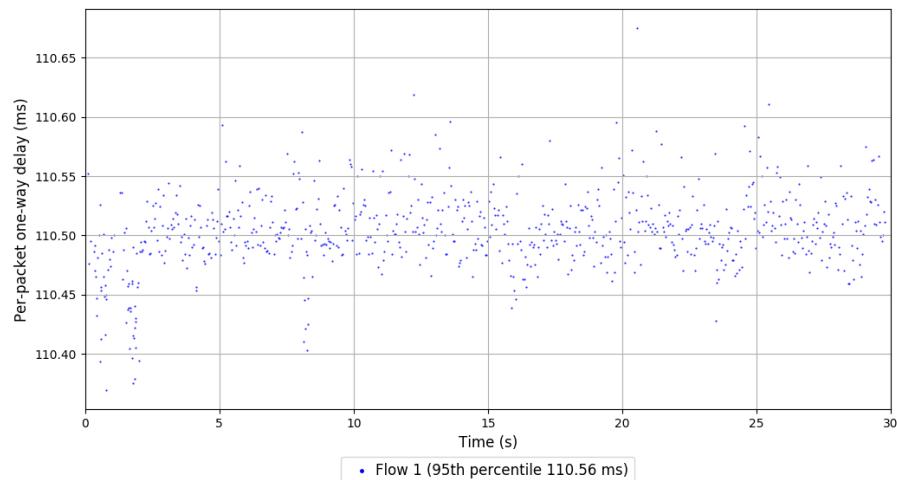
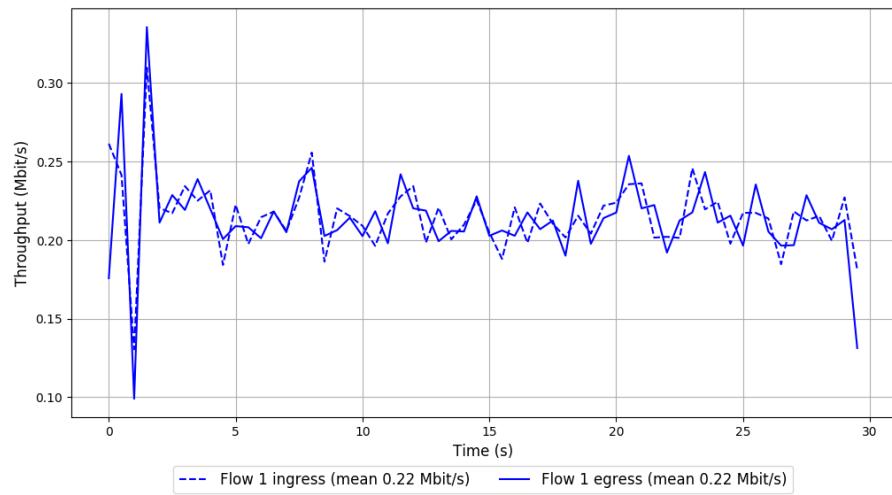
Run 8: Statistics of SCReAM

Start at: 2017-09-17 22:23:31

End at: 2017-09-17 22:24:01

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.559 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.559 ms
Loss rate: 0.76%
```

Run 8: Report of SCReAM — Data Link



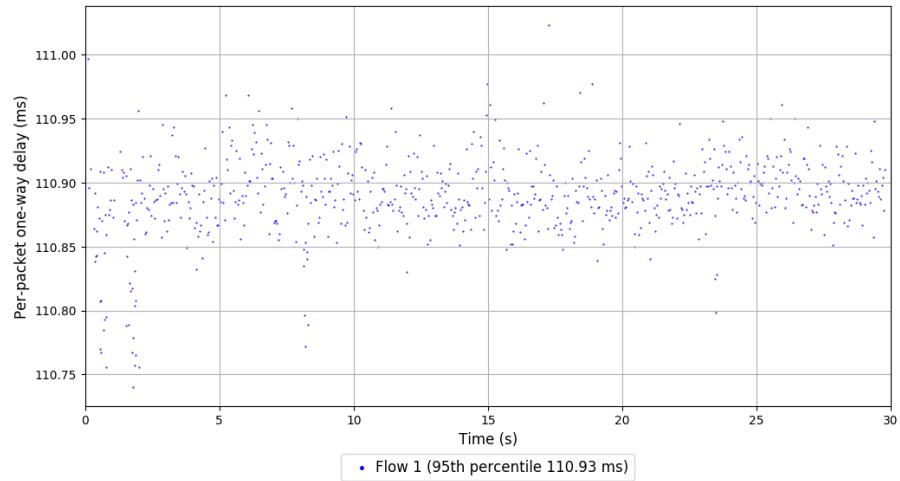
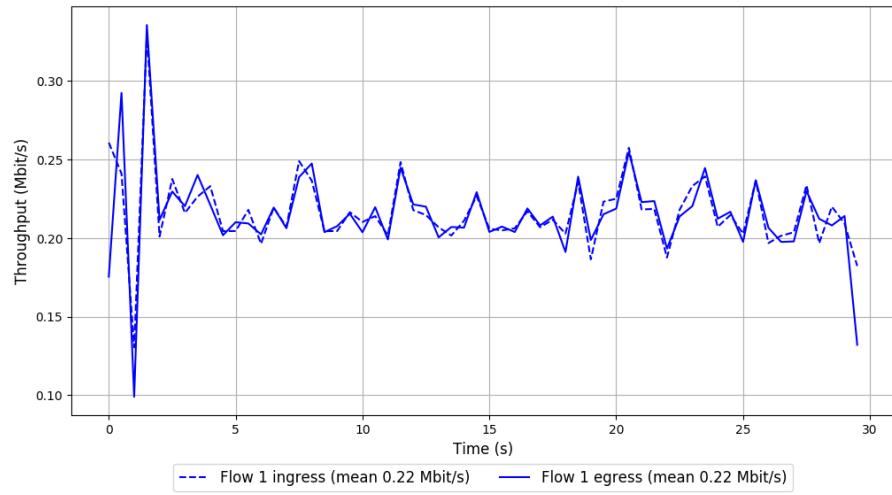
Run 9: Statistics of SCReAM

Start at: 2017-09-17 22:35:38

End at: 2017-09-17 22:36:08

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.934 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.934 ms
Loss rate: 0.77%
```

Run 9: Report of SCReAM — Data Link



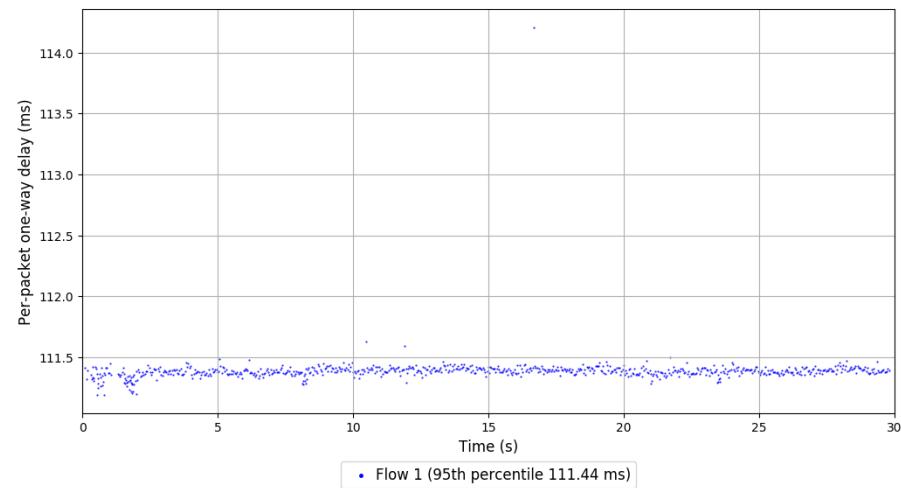
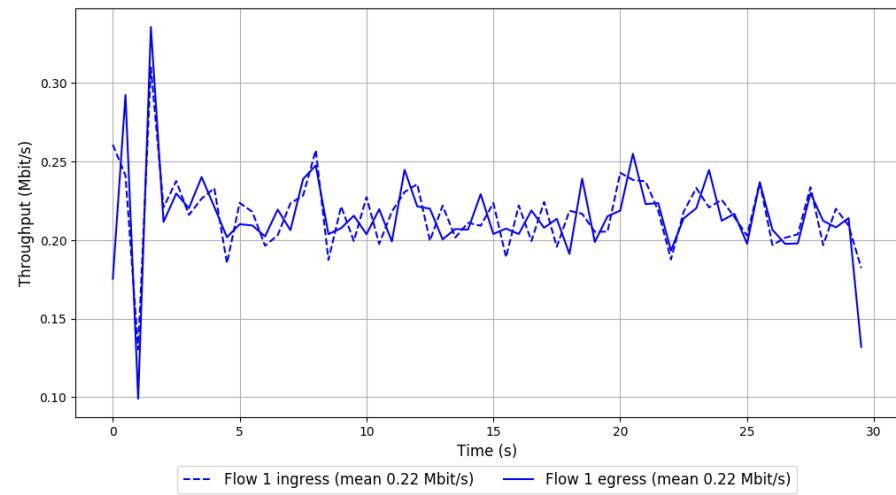
Run 10: Statistics of SCReAM

Start at: 2017-09-17 22:47:33

End at: 2017-09-17 22:48:03

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.436 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.436 ms
Loss rate: 0.77%
```

Run 10: Report of SCReAM — Data Link



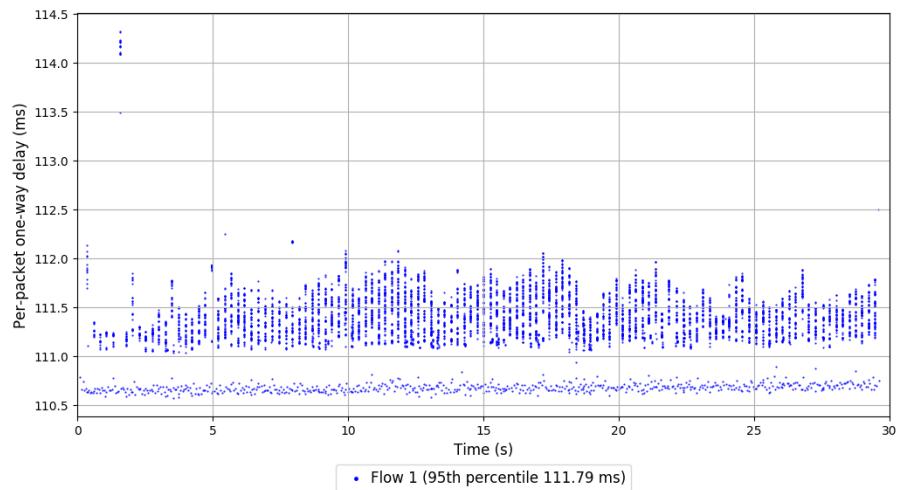
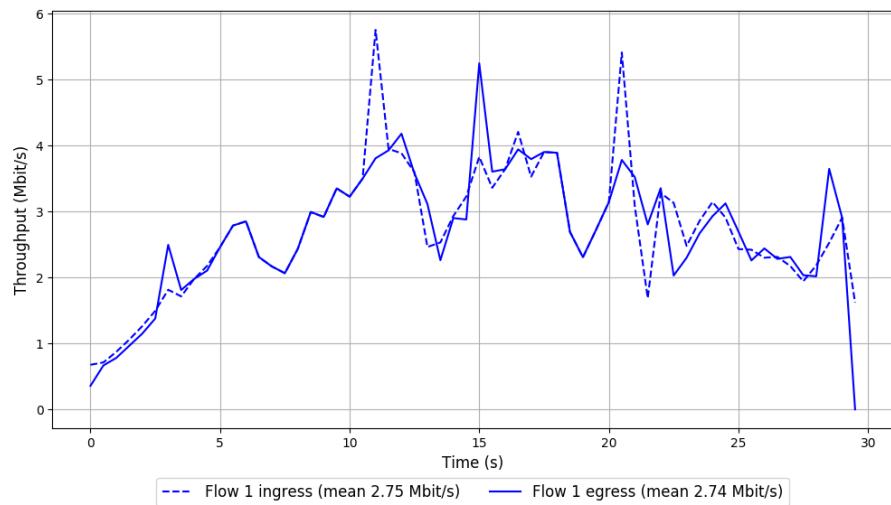
Run 1: Statistics of Sprout

Start at: 2017-09-17 20:51:23

End at: 2017-09-17 20:51:53

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 111.790 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 111.790 ms
Loss rate: 1.09%
```

Run 1: Report of Sprout — Data Link

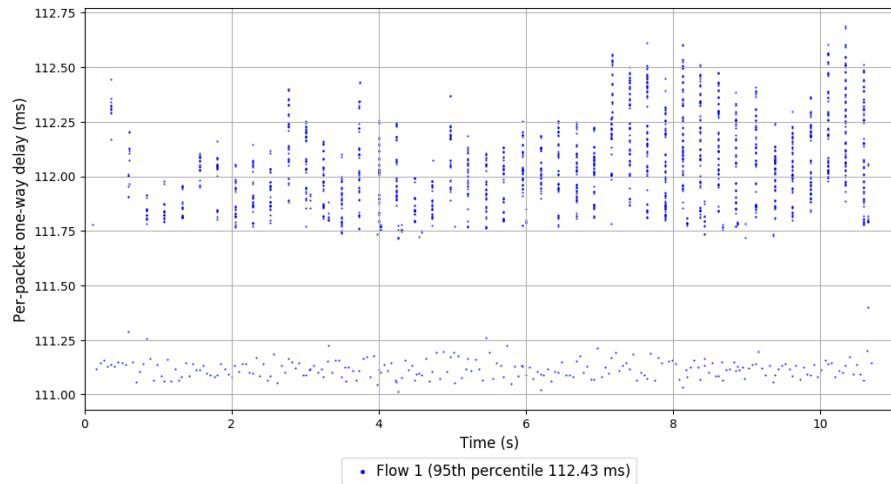
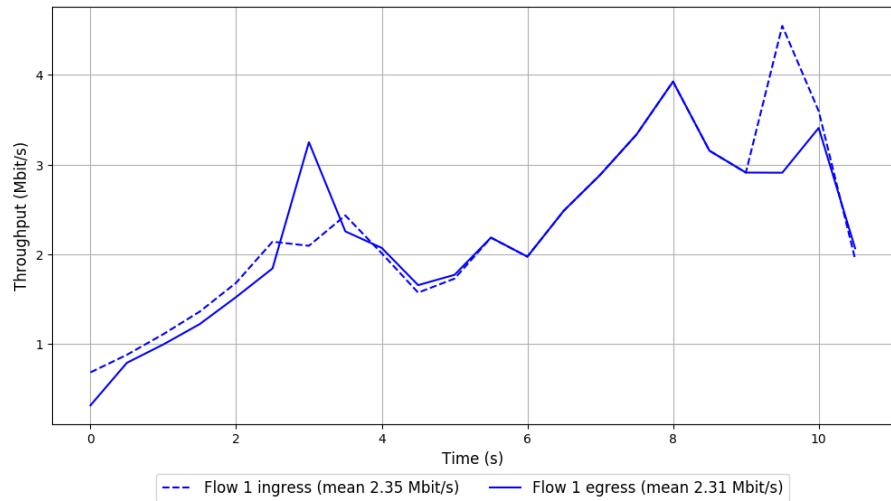


Run 2: Statistics of Sprout

Start at: 2017-09-17 21:03:27

End at: 2017-09-17 21:03:57

Run 2: Report of Sprout — Data Link



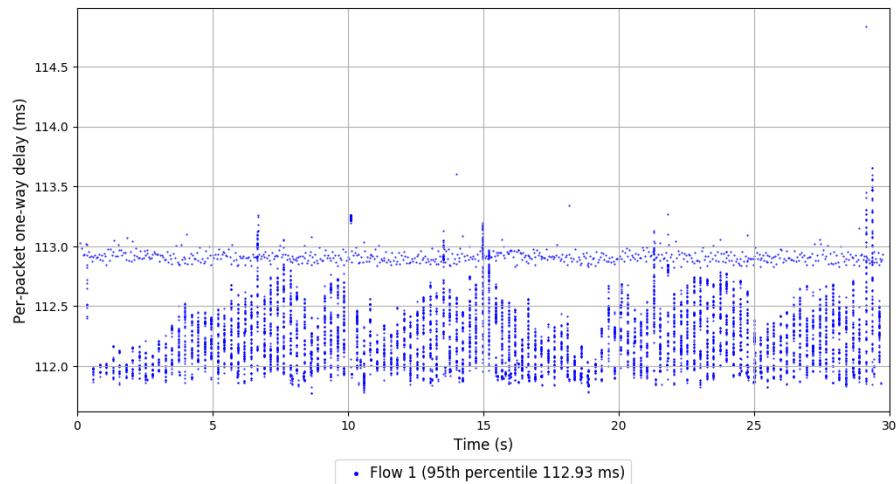
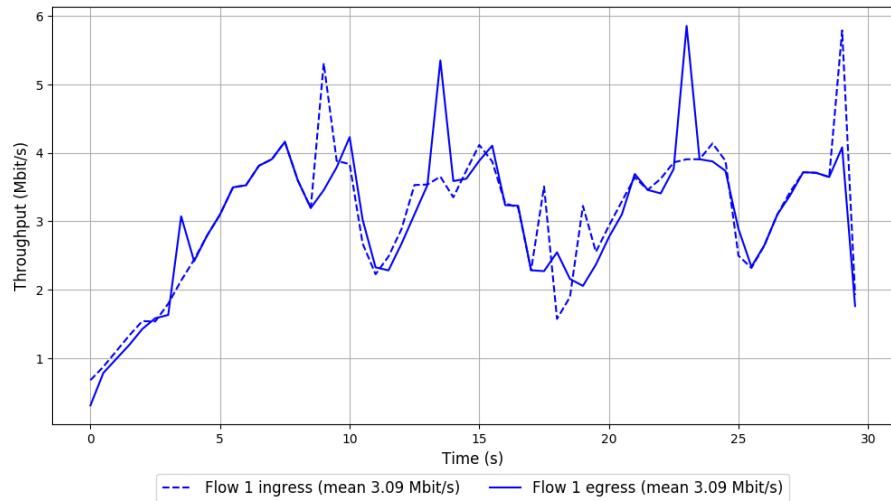
Run 3: Statistics of Sprout

Start at: 2017-09-17 21:15:21

End at: 2017-09-17 21:15:51

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 112.933 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 3.09 Mbit/s
95th percentile per-packet one-way delay: 112.933 ms
Loss rate: 1.14%
```

Run 3: Report of Sprout — Data Link



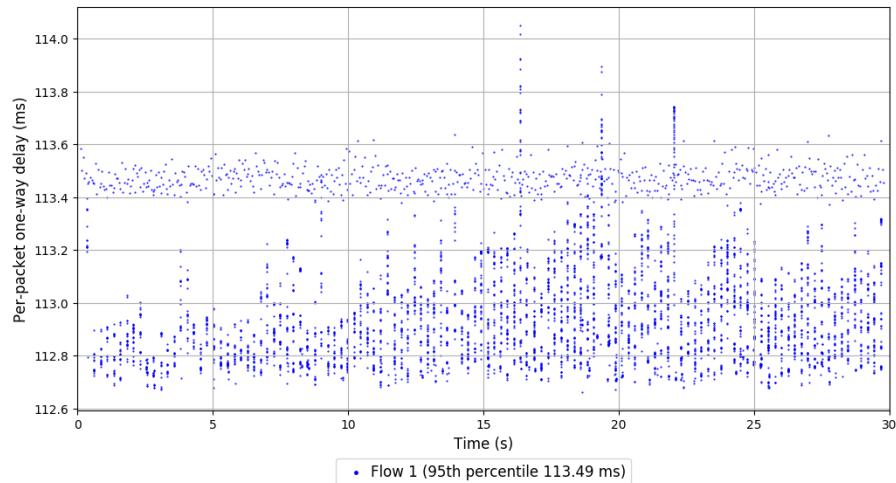
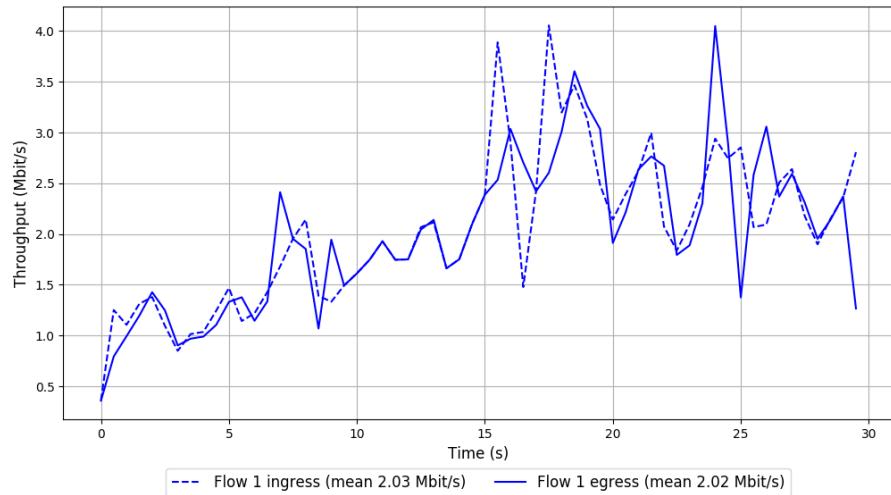
Run 4: Statistics of Sprout

Start at: 2017-09-17 21:27:13

End at: 2017-09-17 21:27:43

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 113.494 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 113.494 ms
Loss rate: 1.27%
```

Run 4: Report of Sprout — Data Link



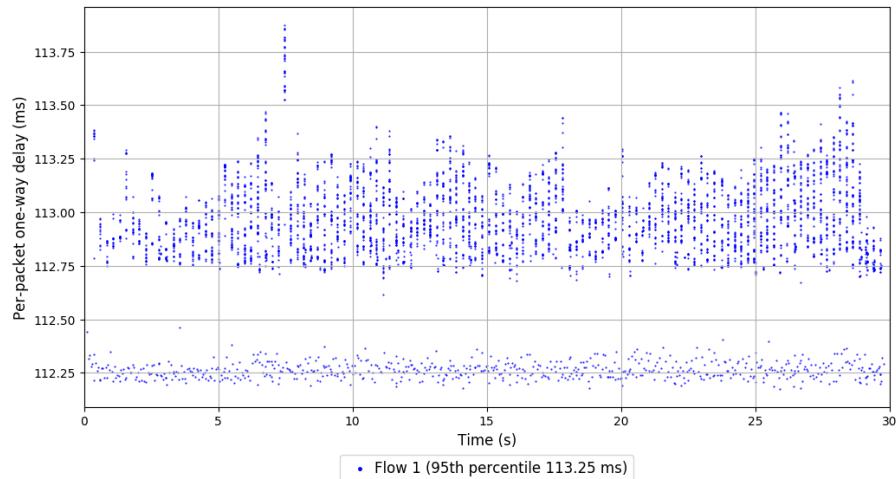
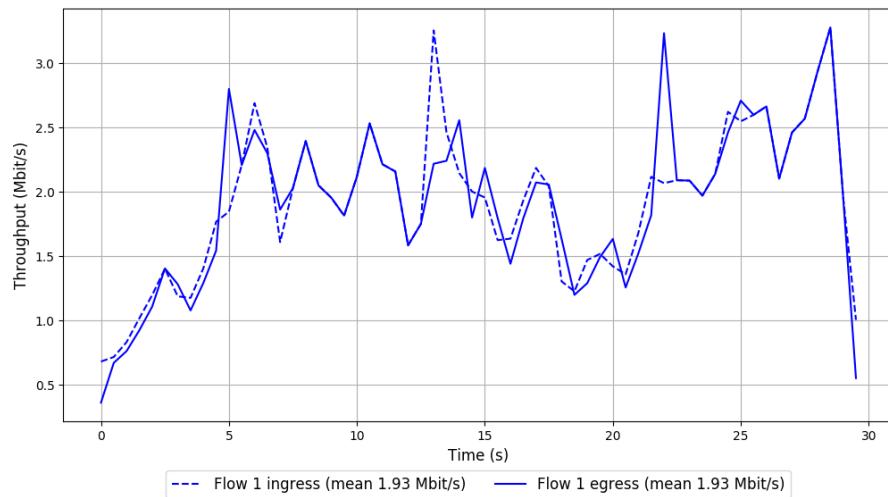
Run 5: Statistics of Sprout

Start at: 2017-09-17 21:39:11

End at: 2017-09-17 21:39:41

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 113.253 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 113.253 ms
Loss rate: 0.54%
```

Run 5: Report of Sprout — Data Link

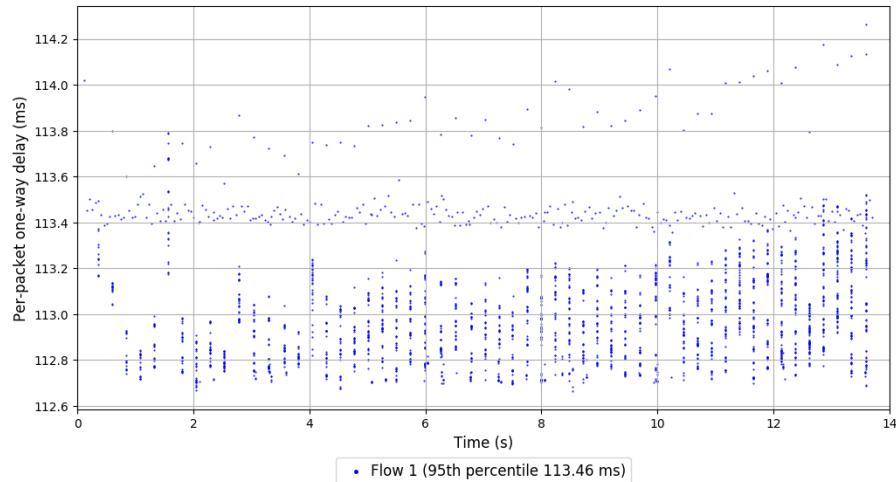
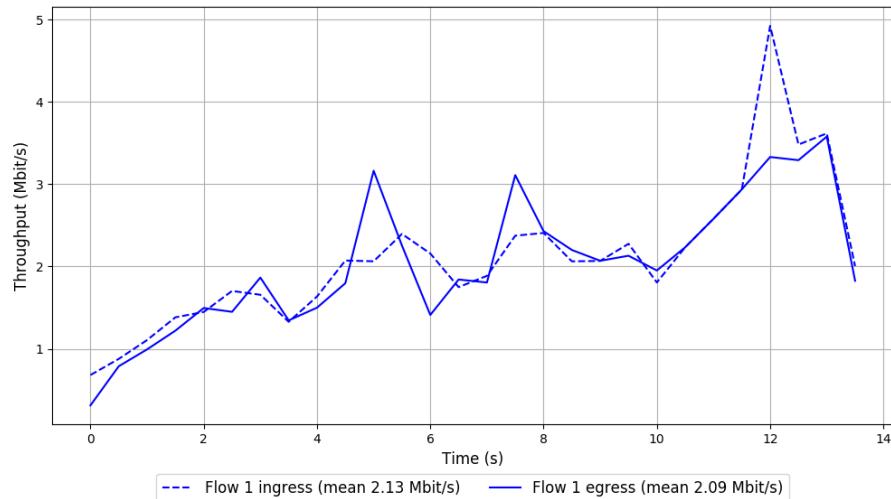


Run 6: Statistics of Sprout

Start at: 2017-09-17 21:51:21

End at: 2017-09-17 21:51:51

Run 6: Report of Sprout — Data Link



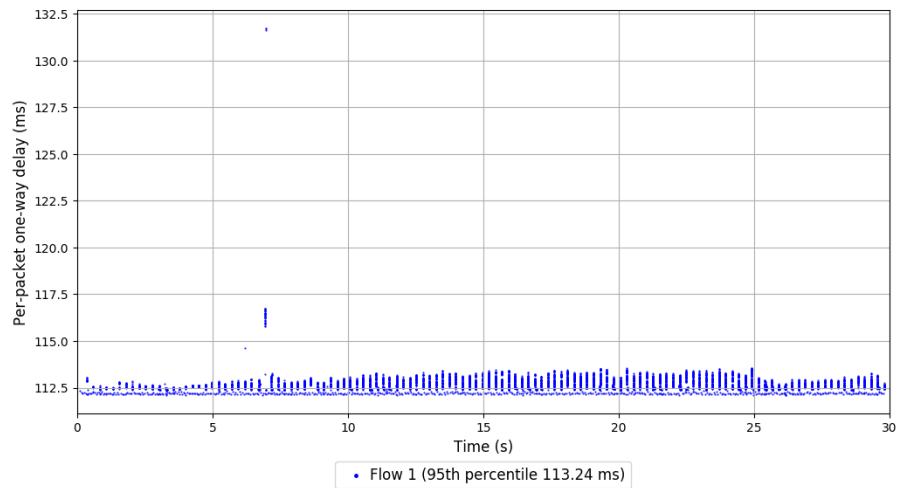
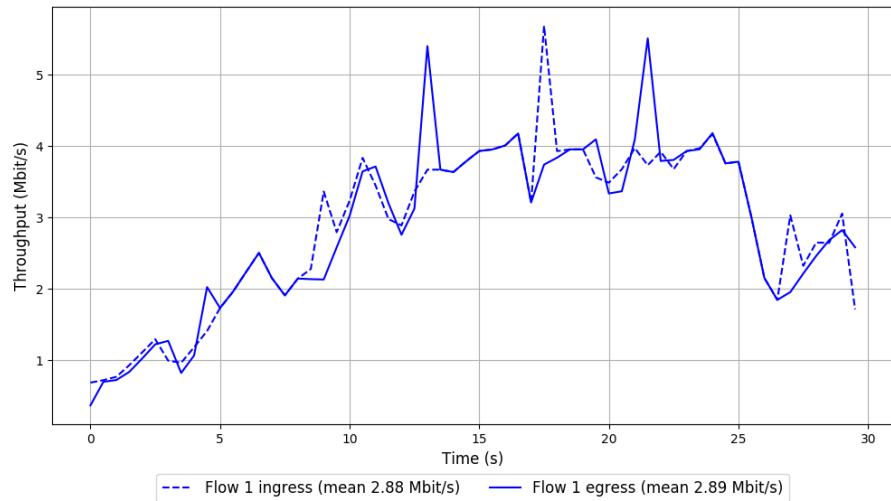
Run 7: Statistics of Sprout

Start at: 2017-09-17 22:03:33

End at: 2017-09-17 22:04:03

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 113.238 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 2.89 Mbit/s
95th percentile per-packet one-way delay: 113.238 ms
Loss rate: 0.53%
```

Run 7: Report of Sprout — Data Link

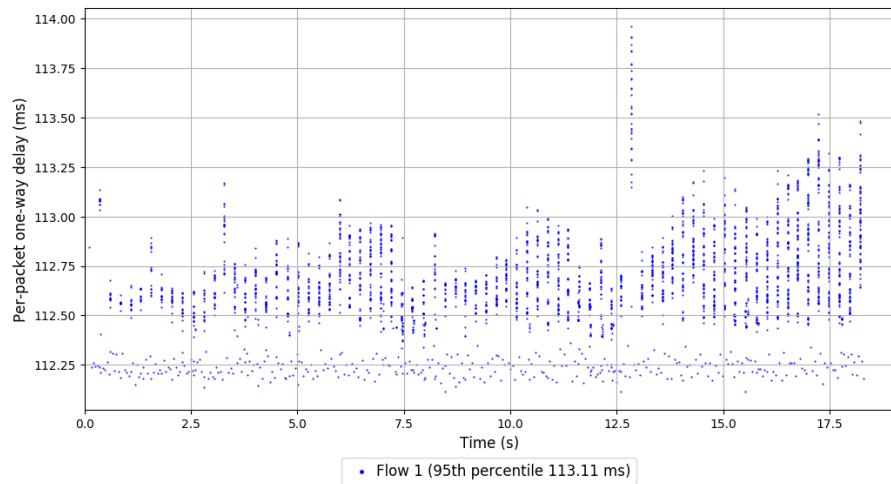
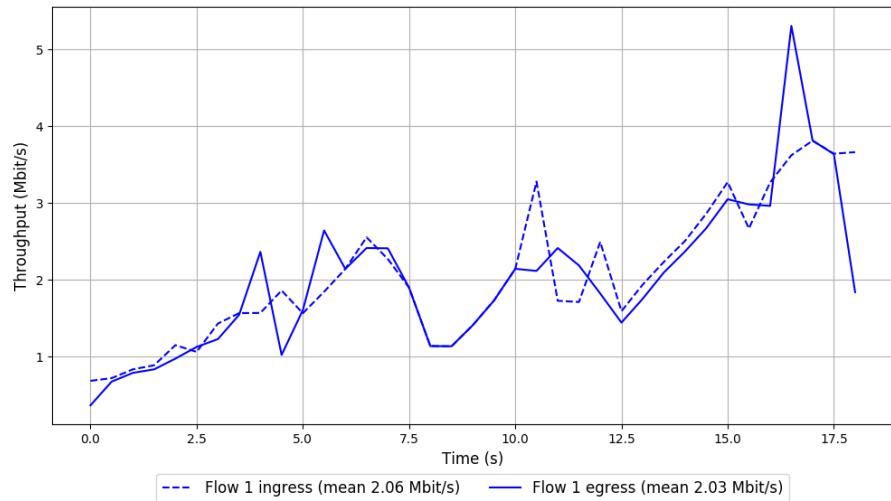


Run 8: Statistics of Sprout

Start at: 2017-09-17 22:15:36

End at: 2017-09-17 22:16:06

Run 8: Report of Sprout — Data Link



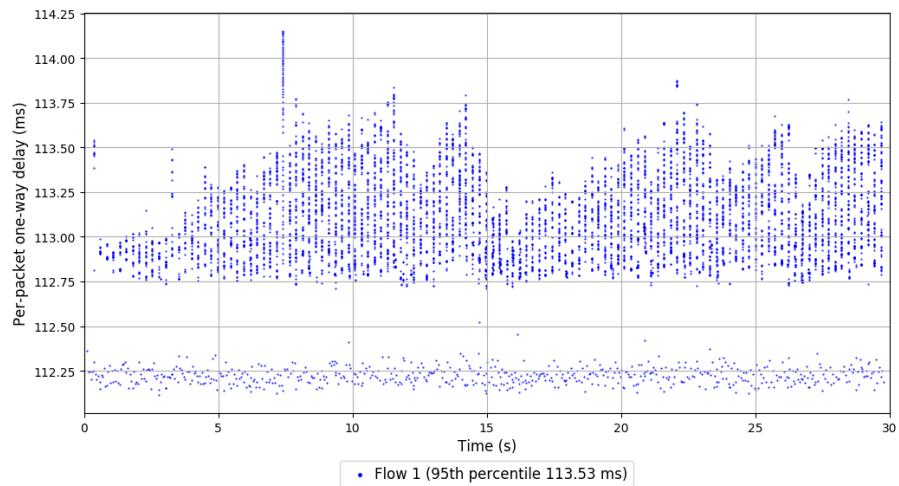
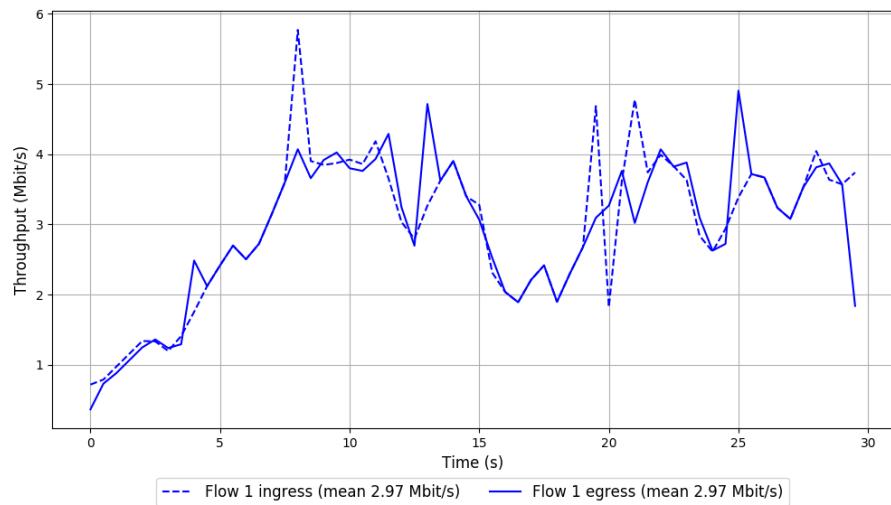
Run 9: Statistics of Sprout

Start at: 2017-09-17 22:27:33

End at: 2017-09-17 22:28:03

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 113.533 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 113.533 ms
Loss rate: 1.07%
```

Run 9: Report of Sprout — Data Link



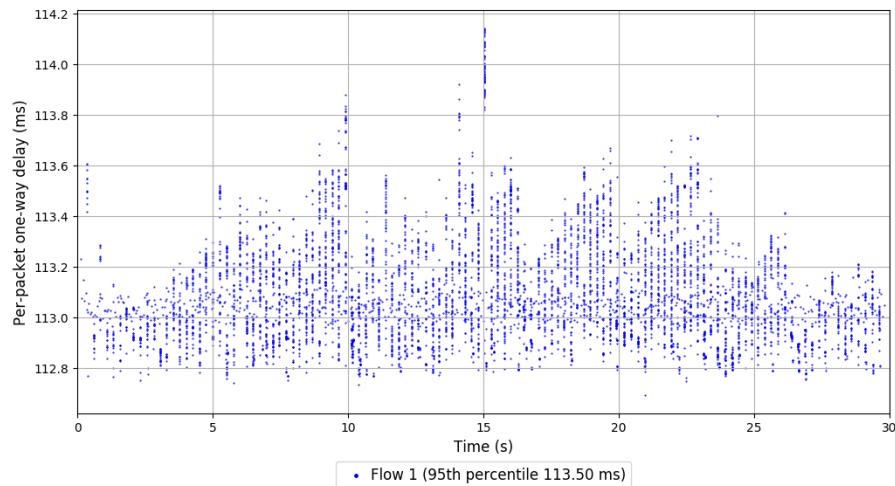
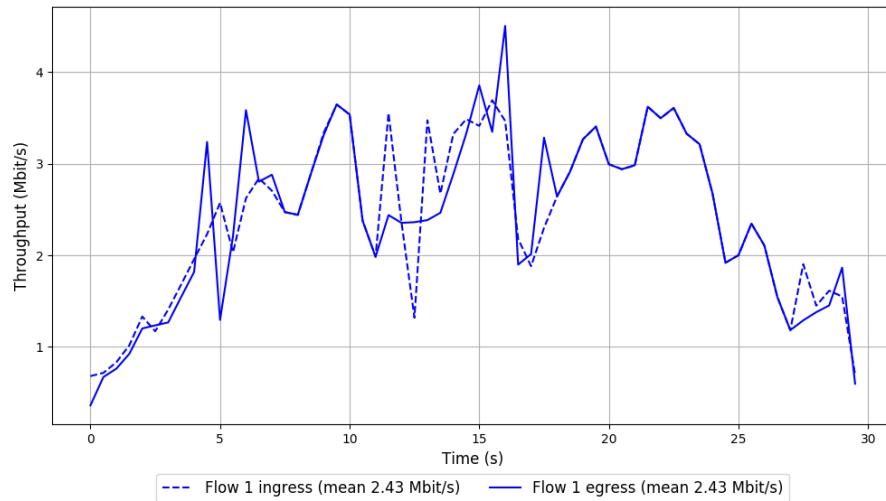
Run 10: Statistics of Sprout

Start at: 2017-09-17 22:39:26

End at: 2017-09-17 22:39:57

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 113.504 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 113.504 ms
Loss rate: 0.45%
```

Run 10: Report of Sprout — Data Link



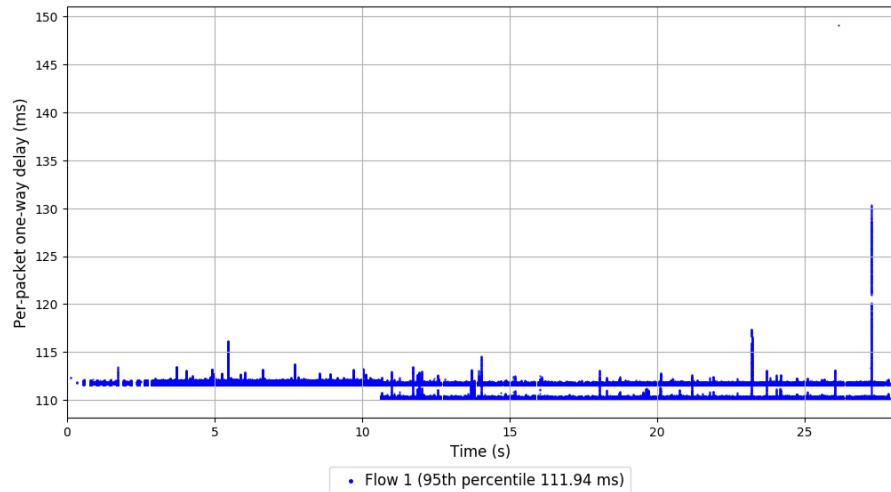
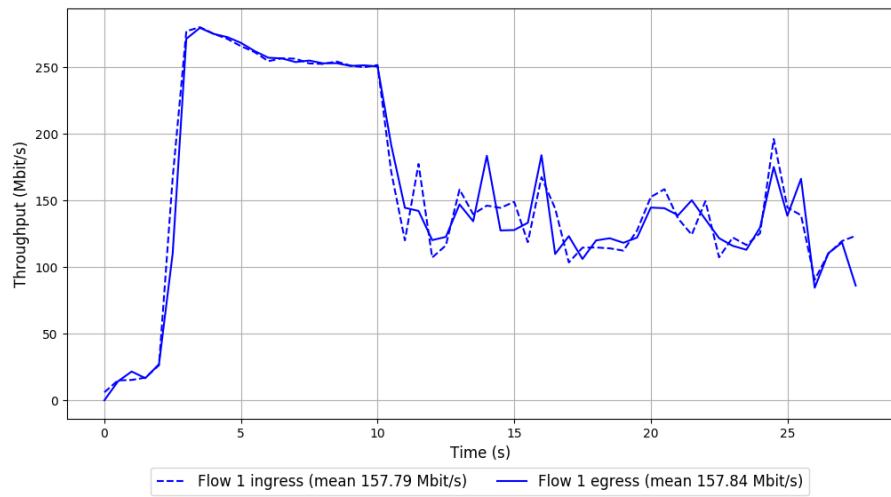
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-17 21:02:31

End at: 2017-09-17 21:03:01

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.84 Mbit/s
95th percentile per-packet one-way delay: 111.938 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 157.84 Mbit/s
95th percentile per-packet one-way delay: 111.938 ms
Loss rate: 0.76%
```

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



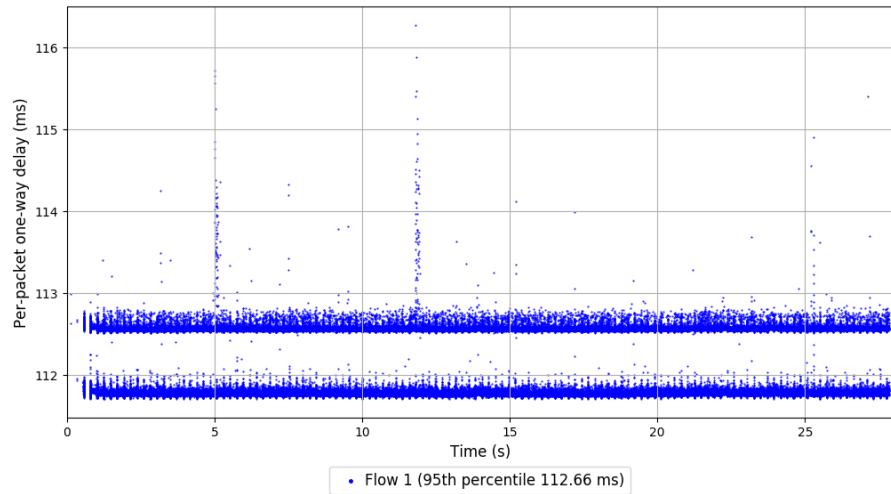
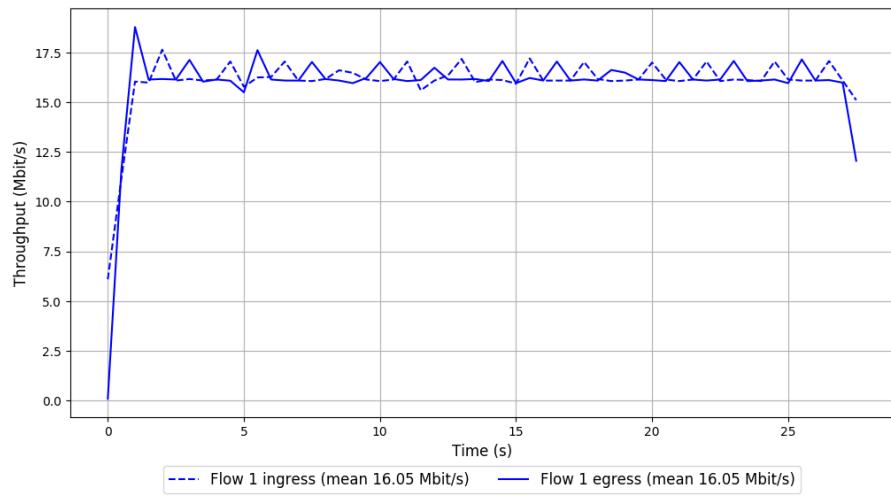
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-17 21:14:38

End at: 2017-09-17 21:15:08

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 112.659 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 16.05 Mbit/s
95th percentile per-packet one-way delay: 112.659 ms
Loss rate: 0.81%
```

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



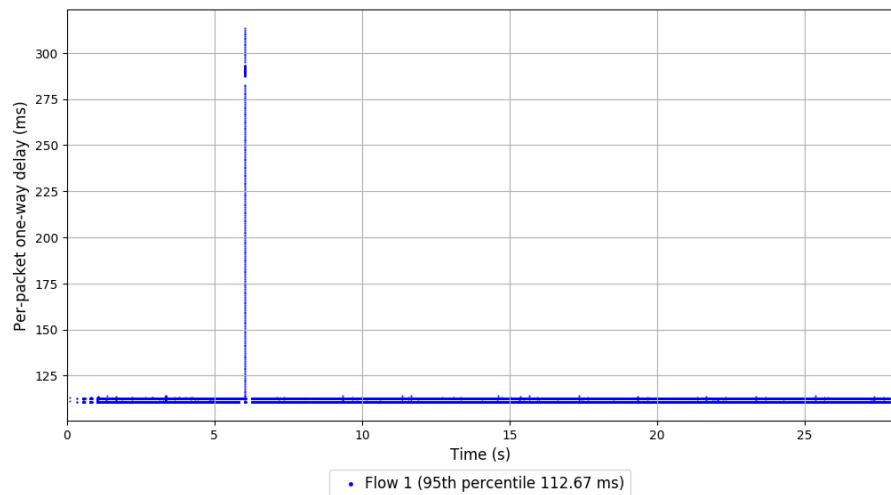
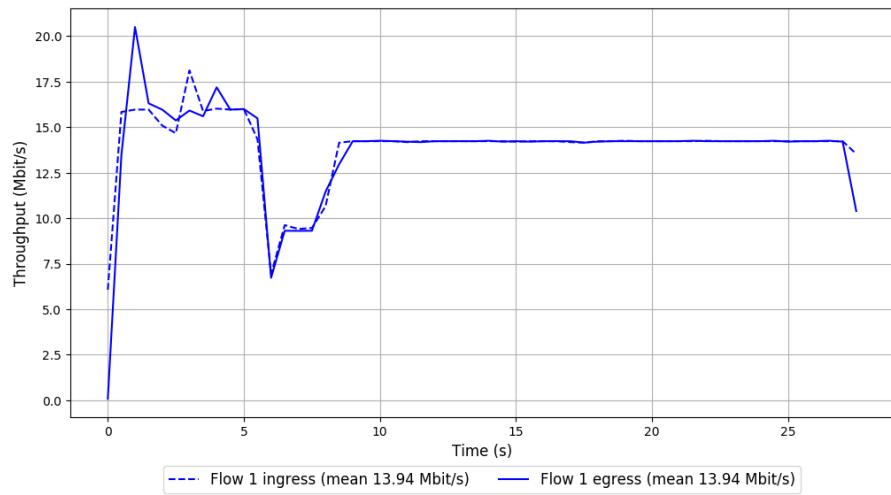
Run 3: Statistics of TaoVA-100x

Start at: 2017-09-17 21:26:29

End at: 2017-09-17 21:26:59

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.94 Mbit/s
95th percentile per-packet one-way delay: 112.673 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 13.94 Mbit/s
95th percentile per-packet one-way delay: 112.673 ms
Loss rate: 0.81%
```

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



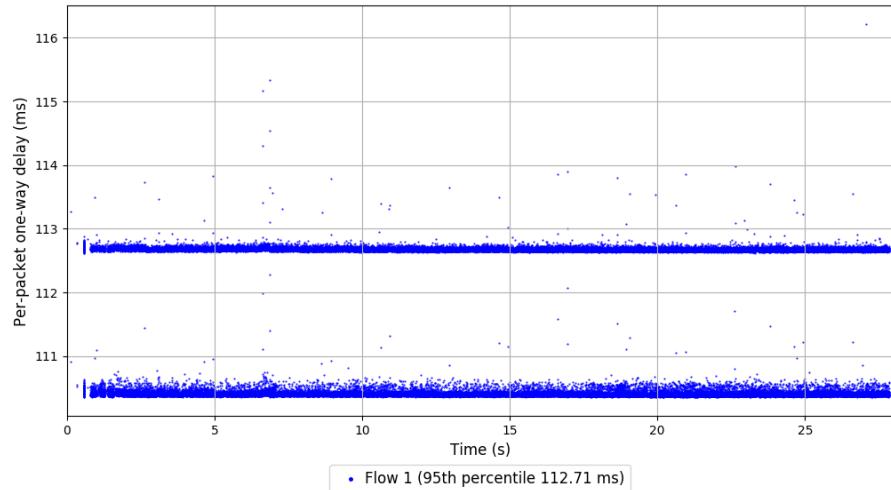
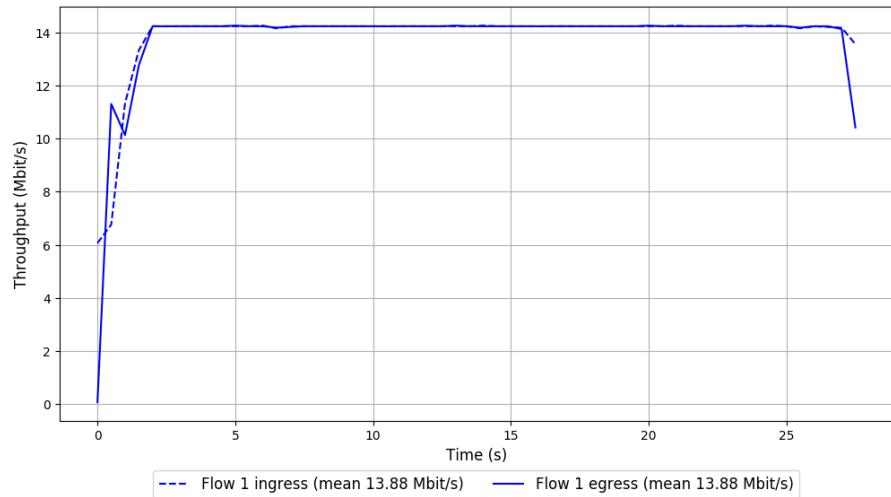
Run 4: Statistics of TaoVA-100x

Start at: 2017-09-17 21:38:28

End at: 2017-09-17 21:38:58

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.88 Mbit/s
95th percentile per-packet one-way delay: 112.707 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 13.88 Mbit/s
95th percentile per-packet one-way delay: 112.707 ms
Loss rate: 0.82%
```

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



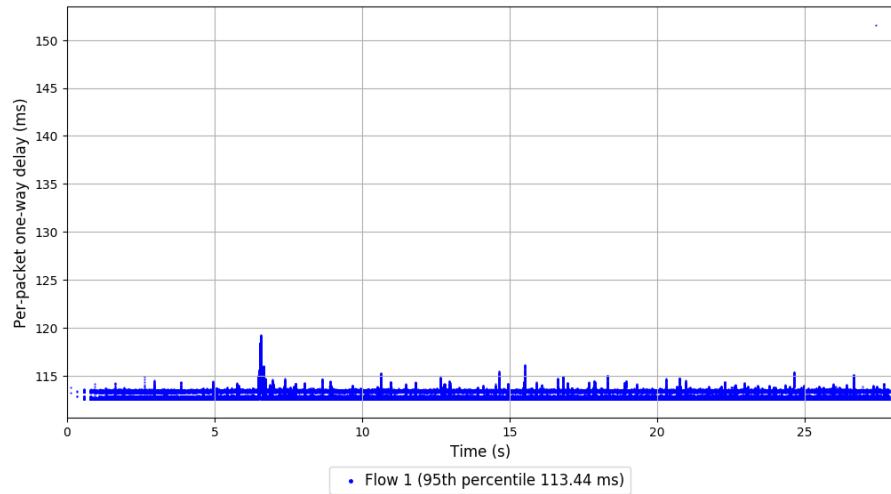
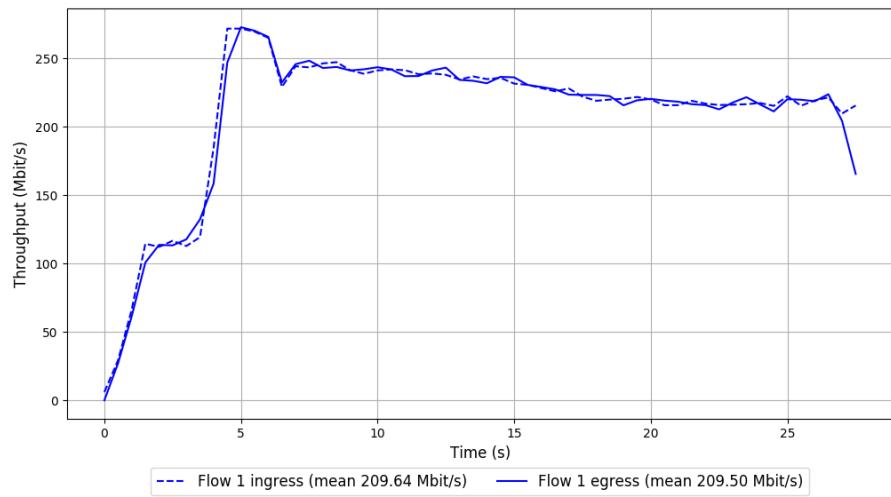
Run 5: Statistics of TaoVA-100x

Start at: 2017-09-17 21:50:20

End at: 2017-09-17 21:50:50

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.50 Mbit/s
95th percentile per-packet one-way delay: 113.439 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 209.50 Mbit/s
95th percentile per-packet one-way delay: 113.439 ms
Loss rate: 0.87%
```

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



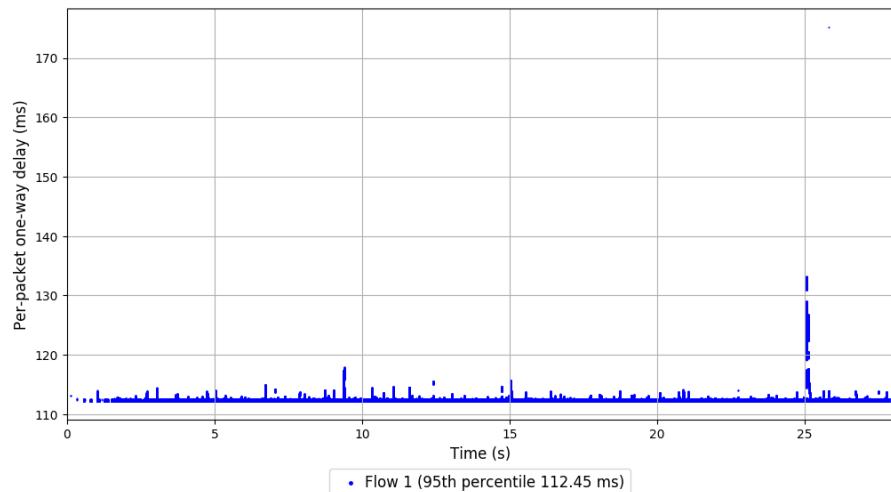
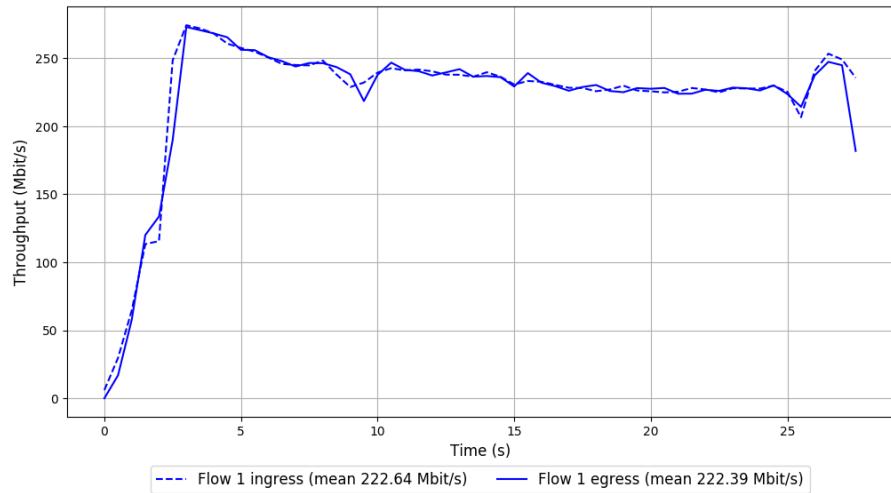
Run 6: Statistics of TaoVA-100x

Start at: 2017-09-17 22:02:30

End at: 2017-09-17 22:03:00

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.39 Mbit/s
95th percentile per-packet one-way delay: 112.448 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 222.39 Mbit/s
95th percentile per-packet one-way delay: 112.448 ms
Loss rate: 0.91%
```

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



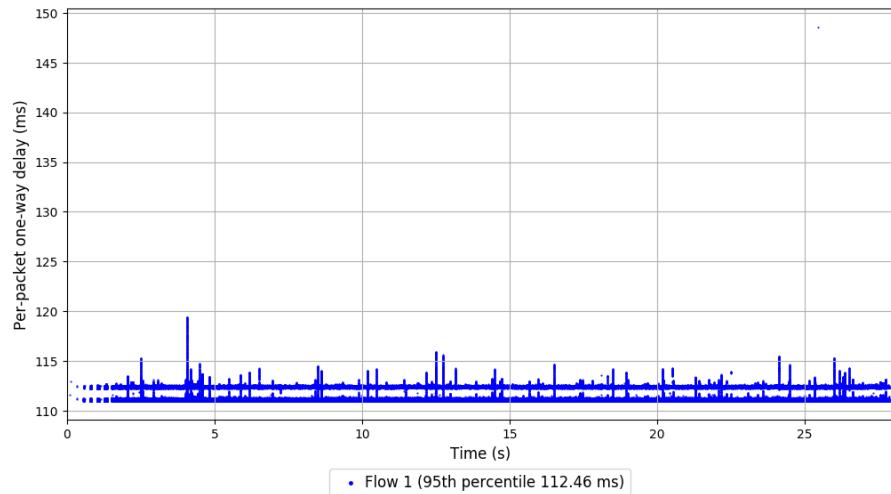
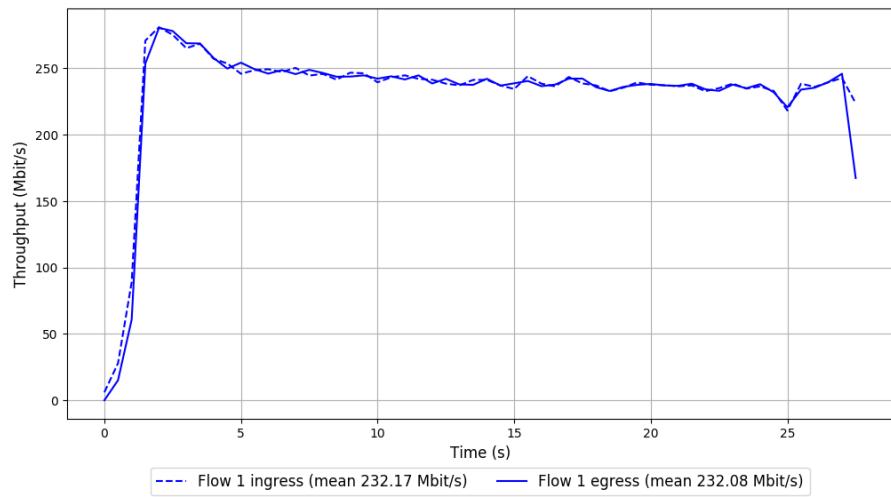
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-17 22:14:33

End at: 2017-09-17 22:15:03

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.08 Mbit/s
95th percentile per-packet one-way delay: 112.457 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 232.08 Mbit/s
95th percentile per-packet one-way delay: 112.457 ms
Loss rate: 0.83%
```

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



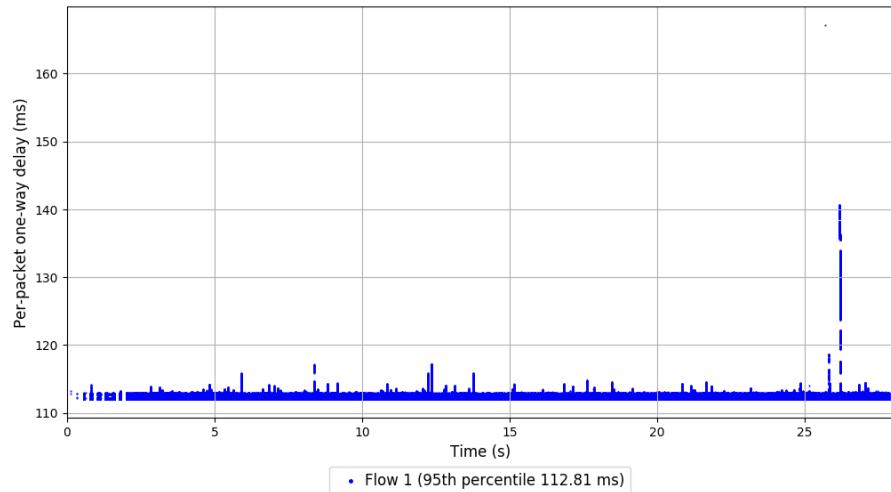
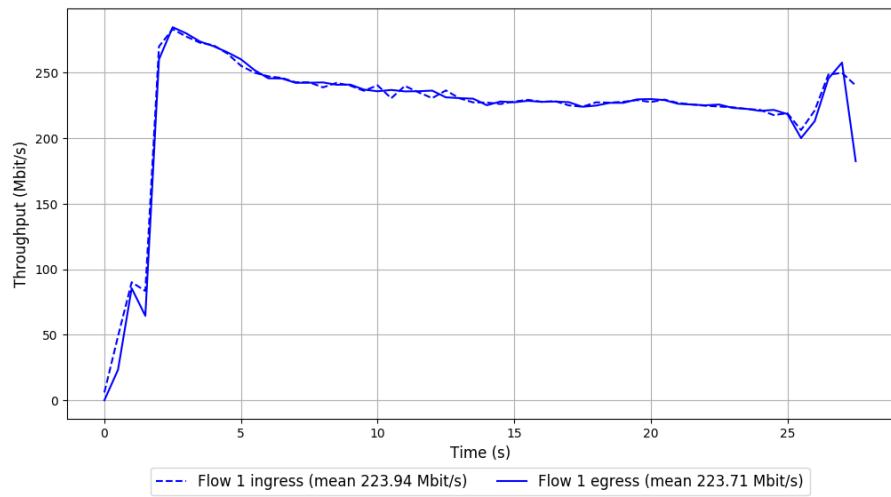
Run 8: Statistics of TaoVA-100x

Start at: 2017-09-17 22:26:30

End at: 2017-09-17 22:27:00

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.71 Mbit/s
95th percentile per-packet one-way delay: 112.815 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 223.71 Mbit/s
95th percentile per-packet one-way delay: 112.815 ms
Loss rate: 0.91%
```

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



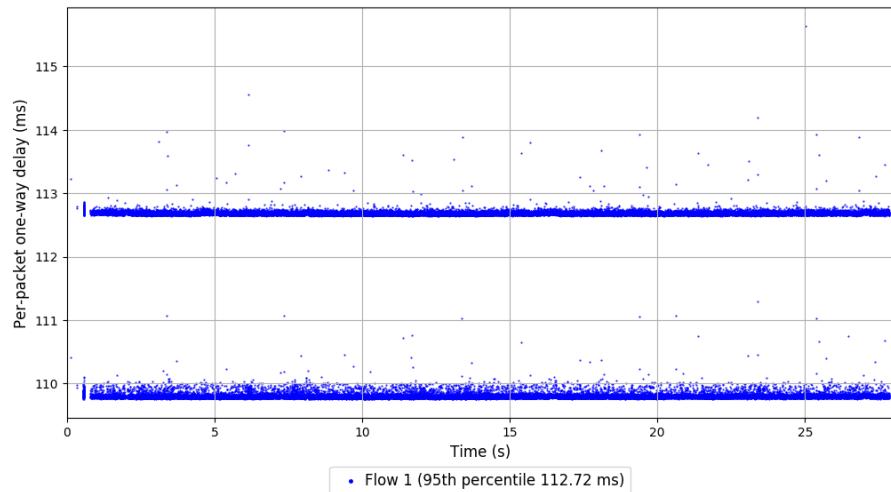
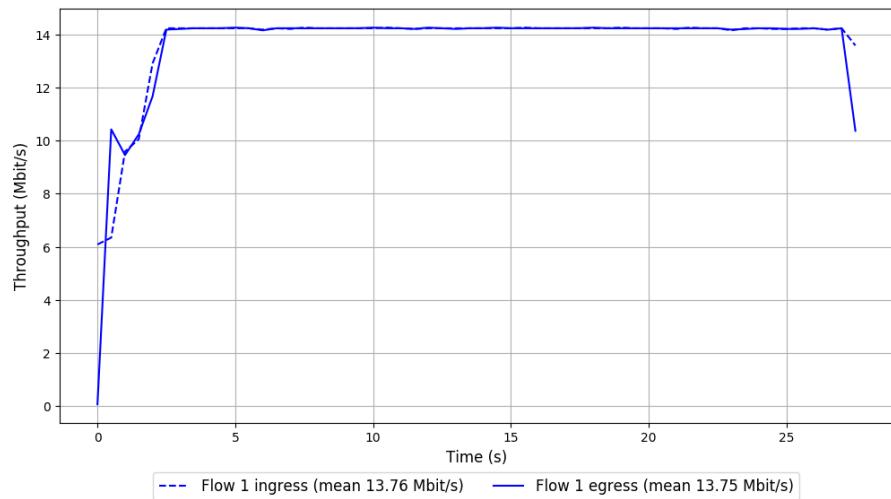
Run 9: Statistics of TaoVA-100x

Start at: 2017-09-17 22:38:43

End at: 2017-09-17 22:39:13

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 112.715 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 13.75 Mbit/s
95th percentile per-packet one-way delay: 112.715 ms
Loss rate: 0.83%
```

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



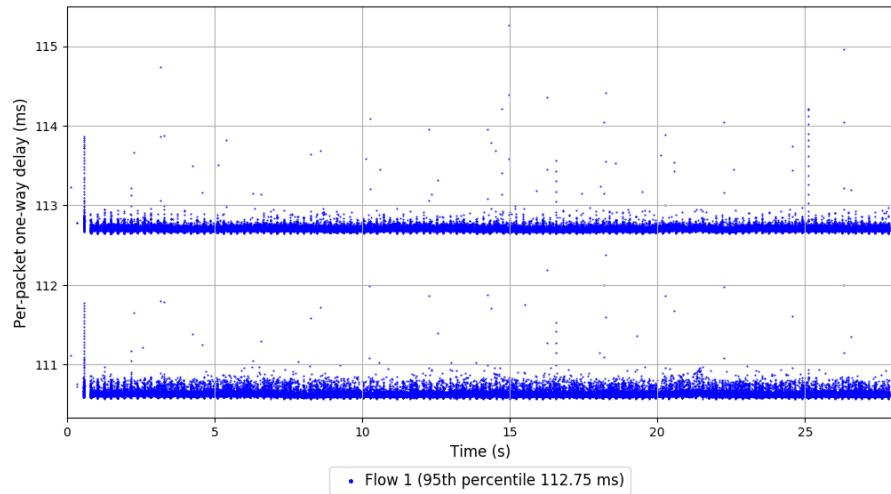
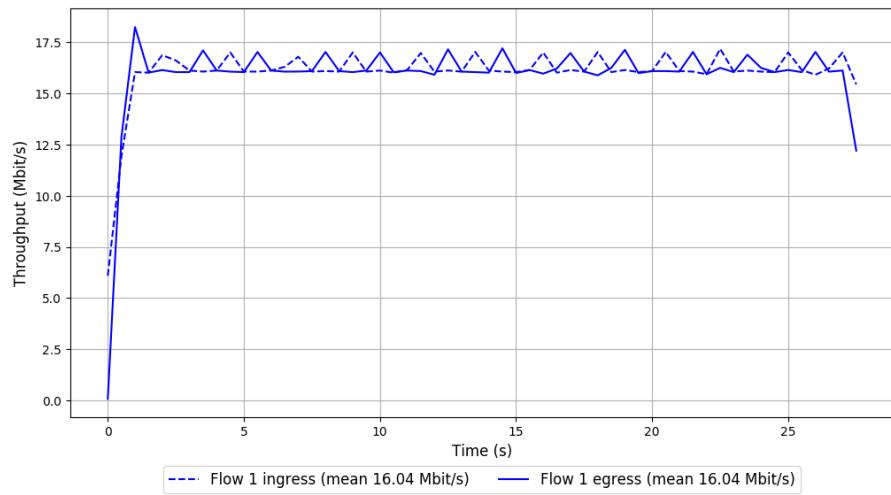
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-17 22:50:38

End at: 2017-09-17 22:51:09

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.04 Mbit/s
95th percentile per-packet one-way delay: 112.747 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 16.04 Mbit/s
95th percentile per-packet one-way delay: 112.747 ms
Loss rate: 0.82%
```

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



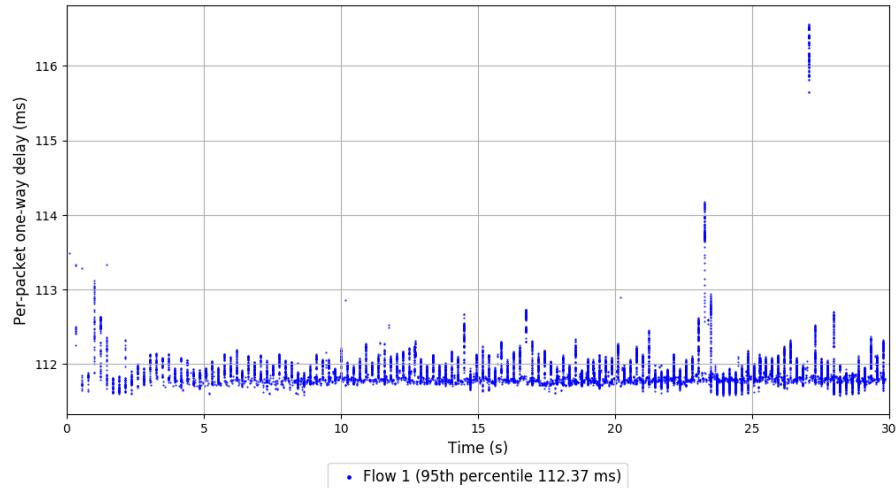
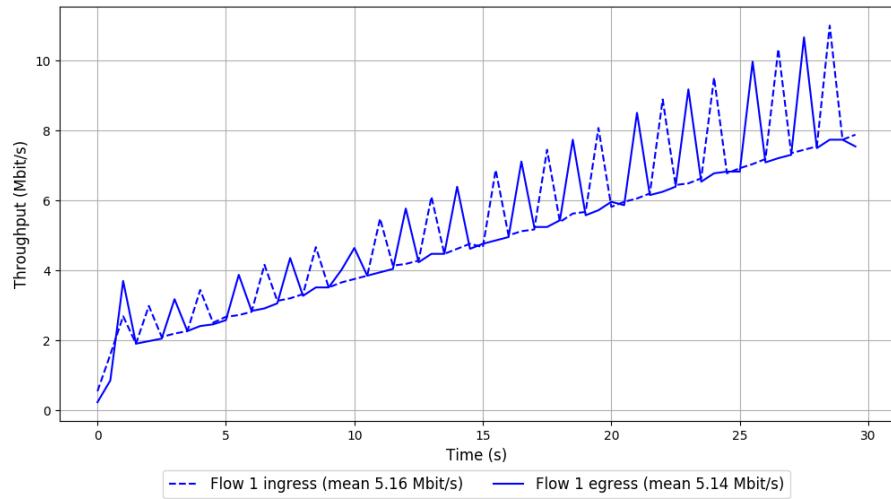
Run 1: Statistics of TCP Vegas

Start at: 2017-09-17 21:01:50

End at: 2017-09-17 21:02:20

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.14 Mbit/s
95th percentile per-packet one-way delay: 112.369 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 5.14 Mbit/s
95th percentile per-packet one-way delay: 112.369 ms
Loss rate: 1.27%
```

Run 1: Report of TCP Vegas — Data Link



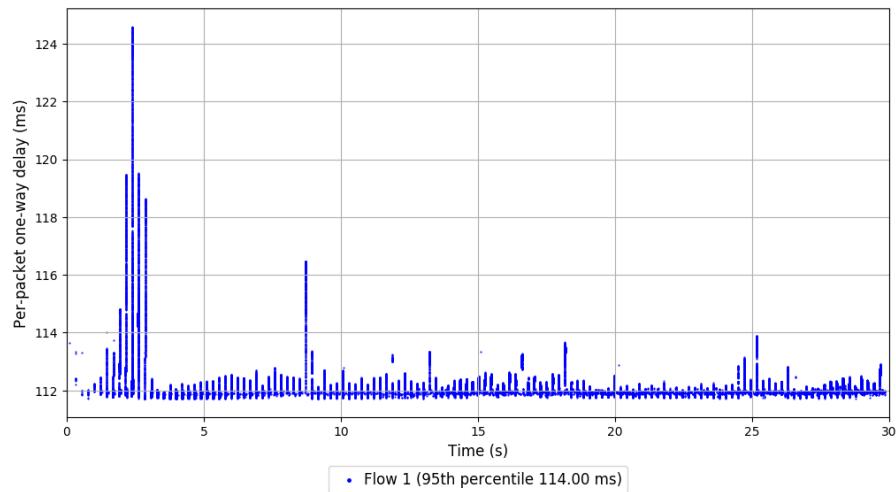
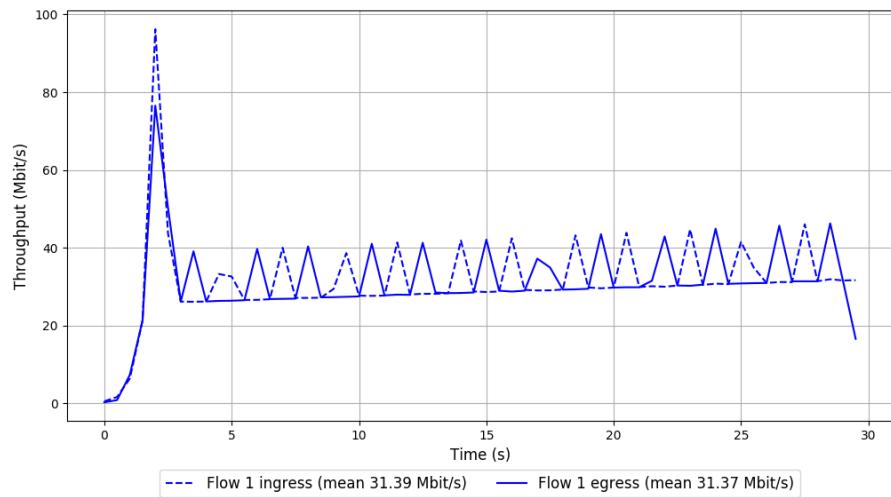
Run 2: Statistics of TCP Vegas

Start at: 2017-09-17 21:13:54

End at: 2017-09-17 21:14:25

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 113.995 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 113.995 ms
Loss rate: 0.84%
```

Run 2: Report of TCP Vegas — Data Link



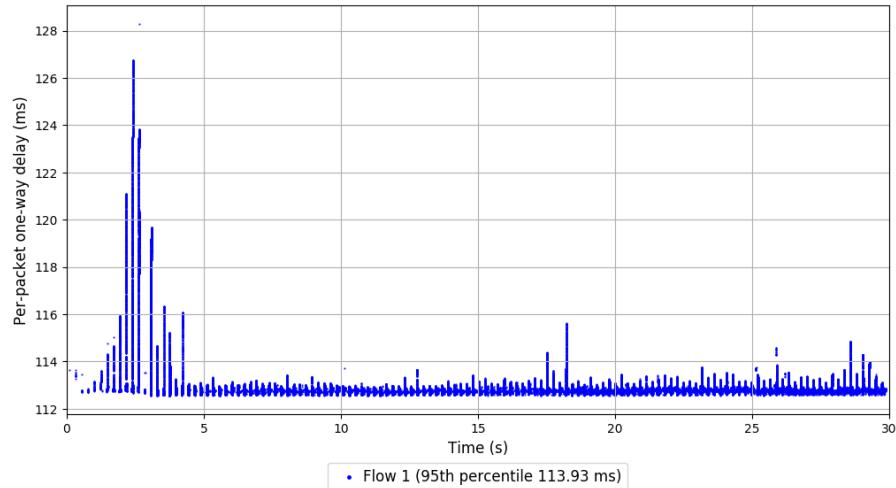
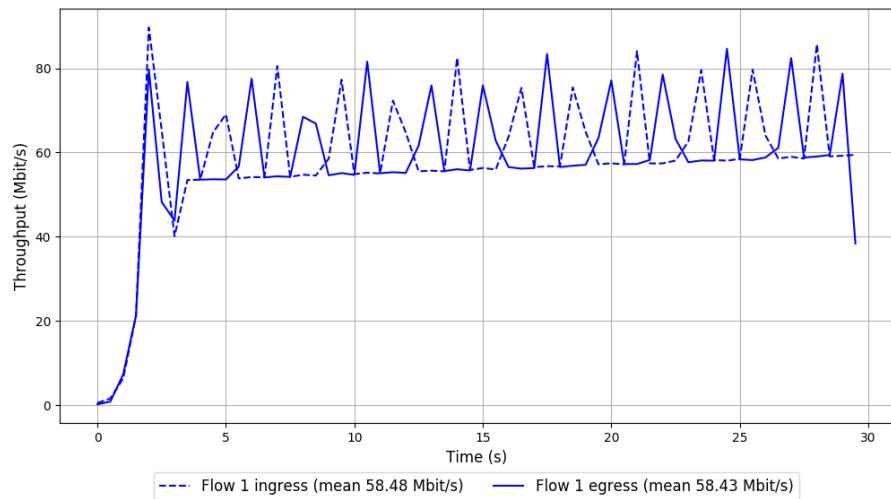
Run 3: Statistics of TCP Vegas

Start at: 2017-09-17 21:25:45

End at: 2017-09-17 21:26:15

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 113.928 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 58.43 Mbit/s
95th percentile per-packet one-way delay: 113.928 ms
Loss rate: 0.84%
```

Run 3: Report of TCP Vegas — Data Link



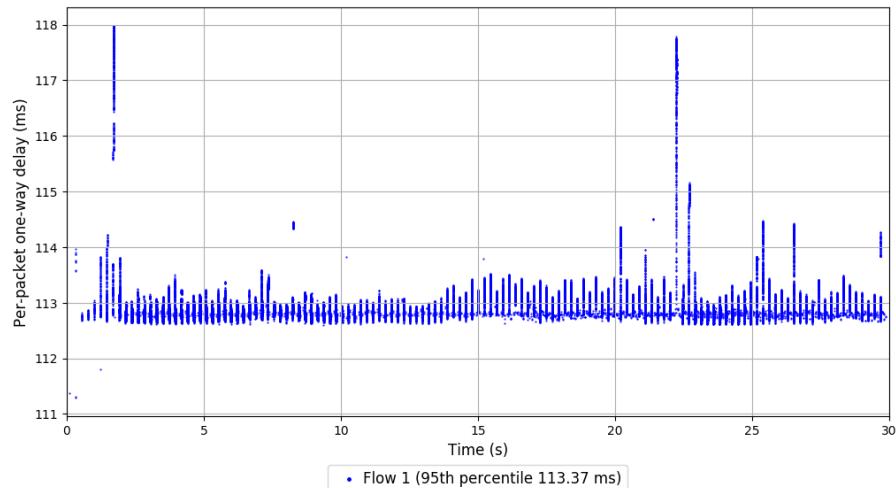
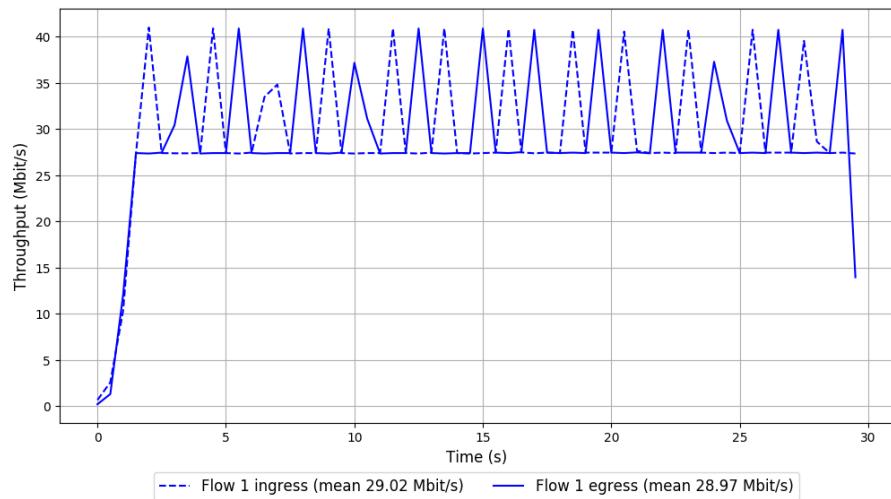
Run 4: Statistics of TCP Vegas

Start at: 2017-09-17 21:37:45

End at: 2017-09-17 21:38:15

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 113.369 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 28.97 Mbit/s
95th percentile per-packet one-way delay: 113.369 ms
Loss rate: 0.78%
```

Run 4: Report of TCP Vegas — Data Link



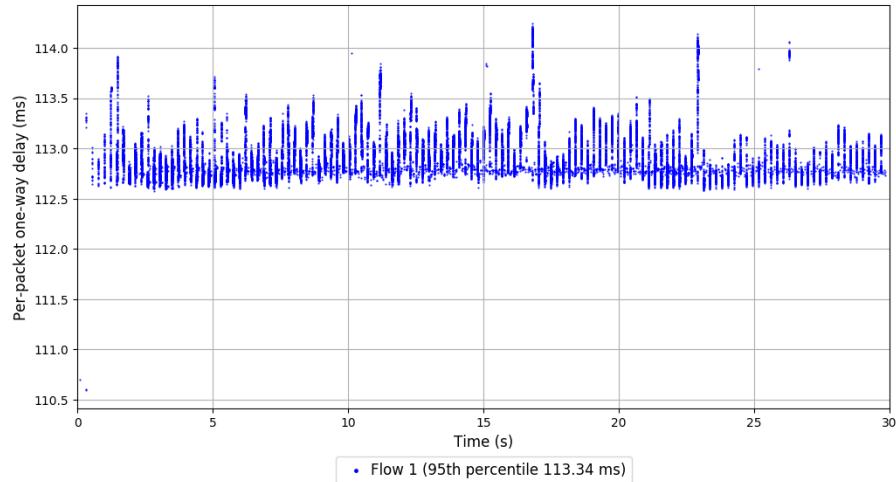
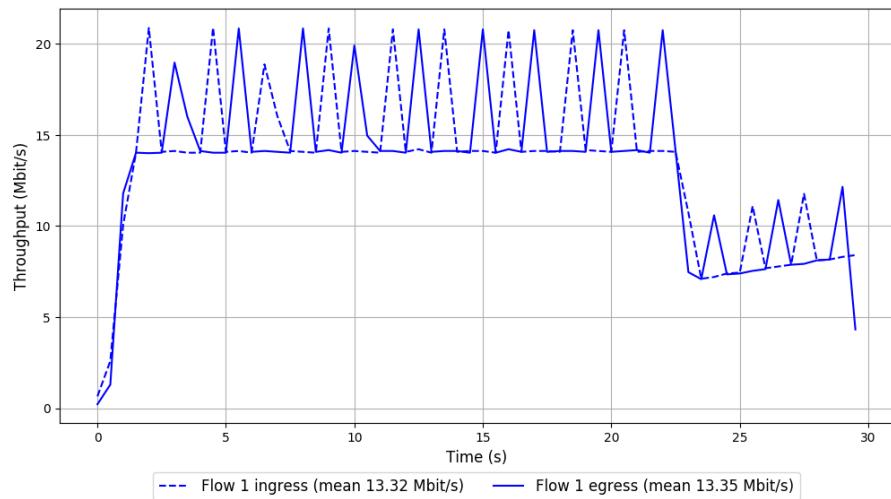
Run 5: Statistics of TCP Vegas

Start at: 2017-09-17 21:49:38

End at: 2017-09-17 21:50:08

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 113.342 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 113.342 ms
Loss rate: 0.53%
```

Run 5: Report of TCP Vegas — Data Link



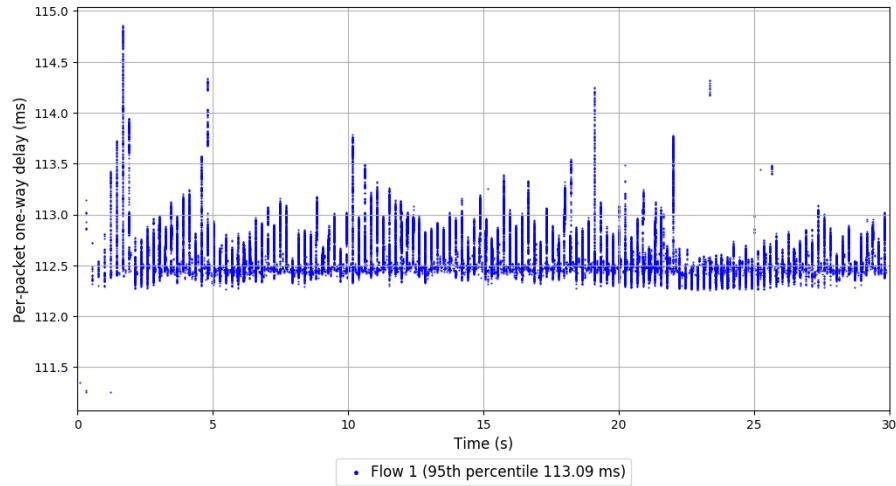
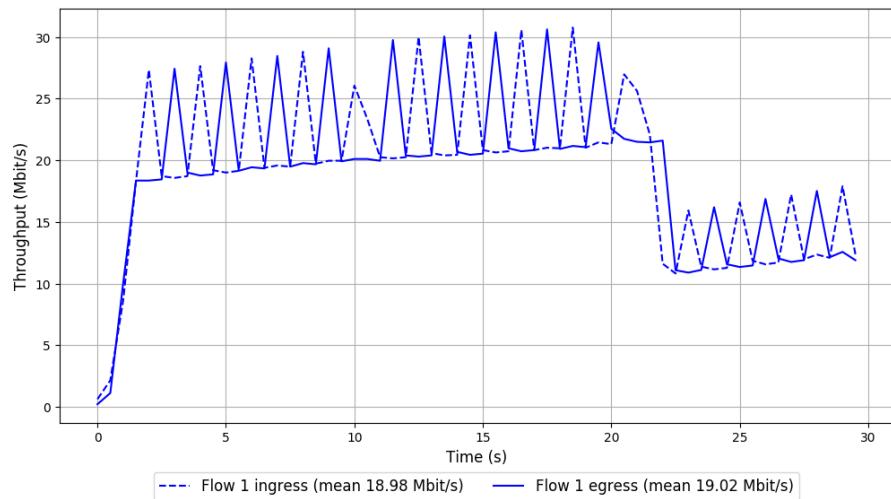
Run 6: Statistics of TCP Vegas

Start at: 2017-09-17 22:01:48

End at: 2017-09-17 22:02:18

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.02 Mbit/s
95th percentile per-packet one-way delay: 113.088 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 19.02 Mbit/s
95th percentile per-packet one-way delay: 113.088 ms
Loss rate: 0.57%
```

Run 6: Report of TCP Vegas — Data Link



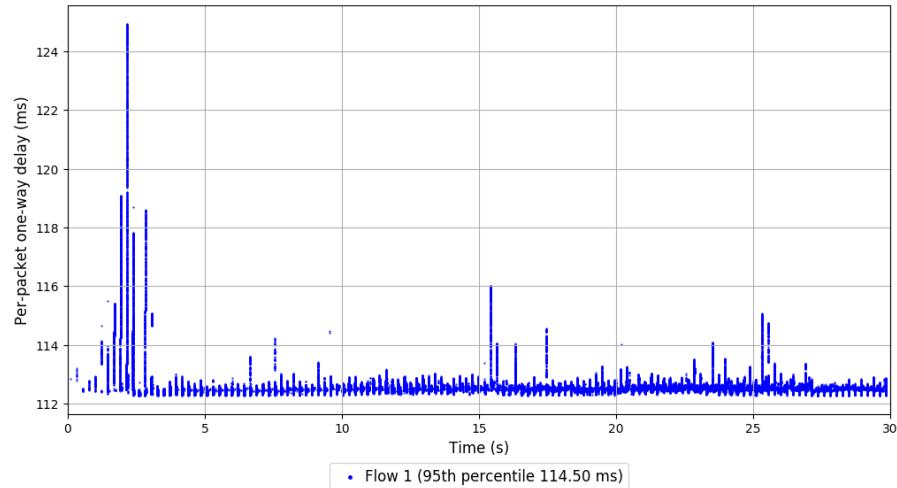
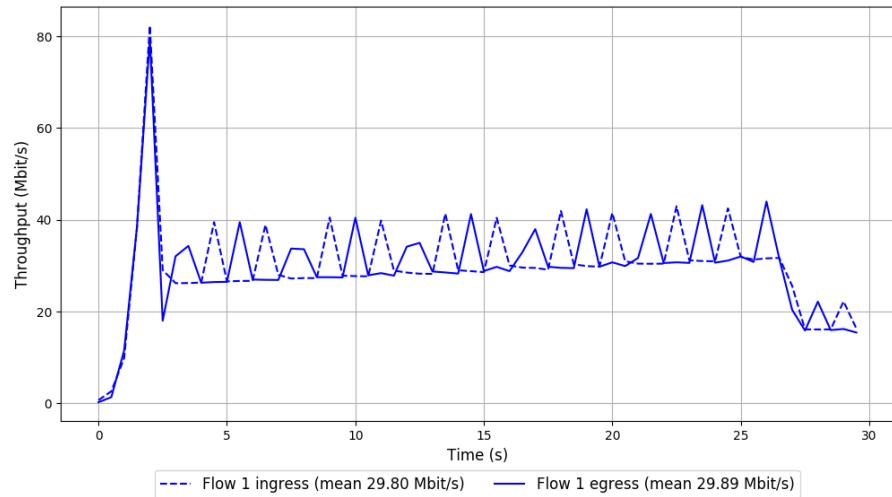
Run 7: Statistics of TCP Vegas

Start at: 2017-09-17 22:13:50

End at: 2017-09-17 22:14:20

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.89 Mbit/s
95th percentile per-packet one-way delay: 114.497 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 29.89 Mbit/s
95th percentile per-packet one-way delay: 114.497 ms
Loss rate: 0.45%
```

Run 7: Report of TCP Vegas — Data Link



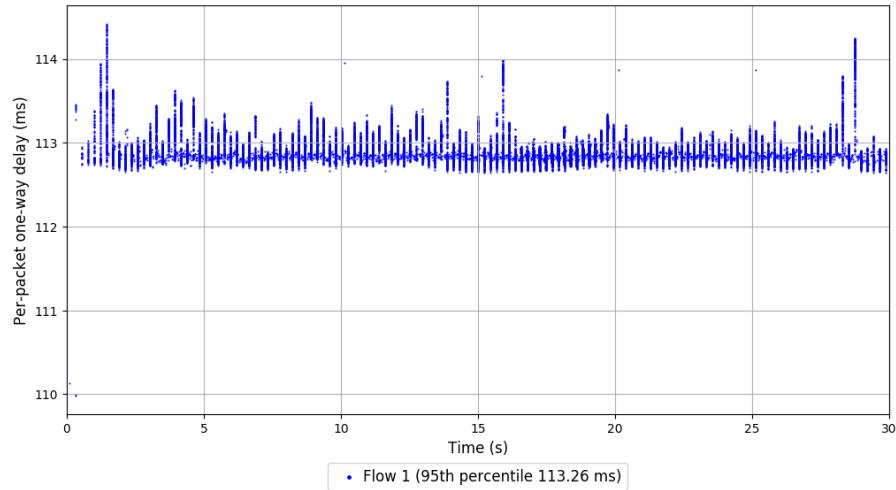
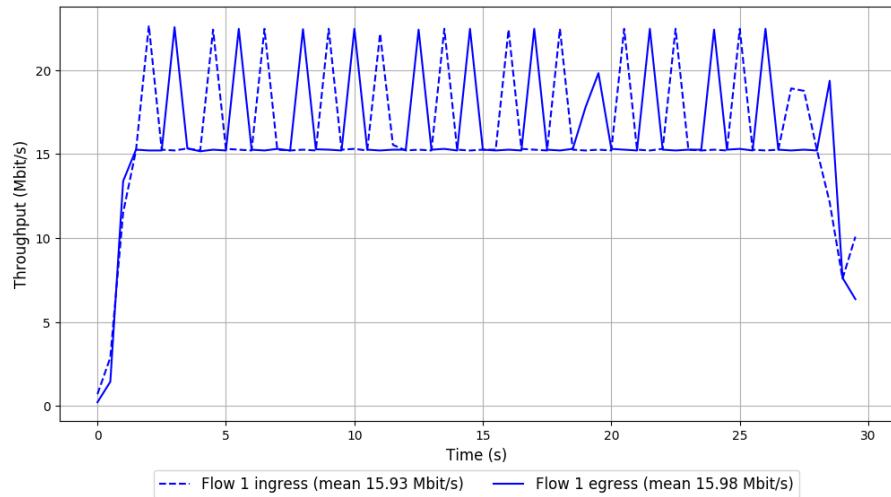
Run 8: Statistics of TCP Vegas

Start at: 2017-09-17 22:25:48

End at: 2017-09-17 22:26:18

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.98 Mbit/s
95th percentile per-packet one-way delay: 113.261 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 15.98 Mbit/s
95th percentile per-packet one-way delay: 113.261 ms
Loss rate: 0.40%
```

Run 8: Report of TCP Vegas — Data Link



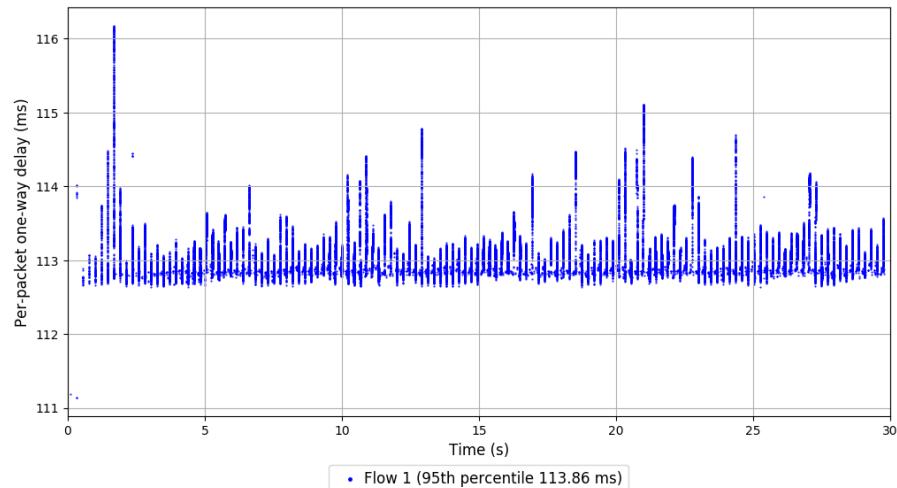
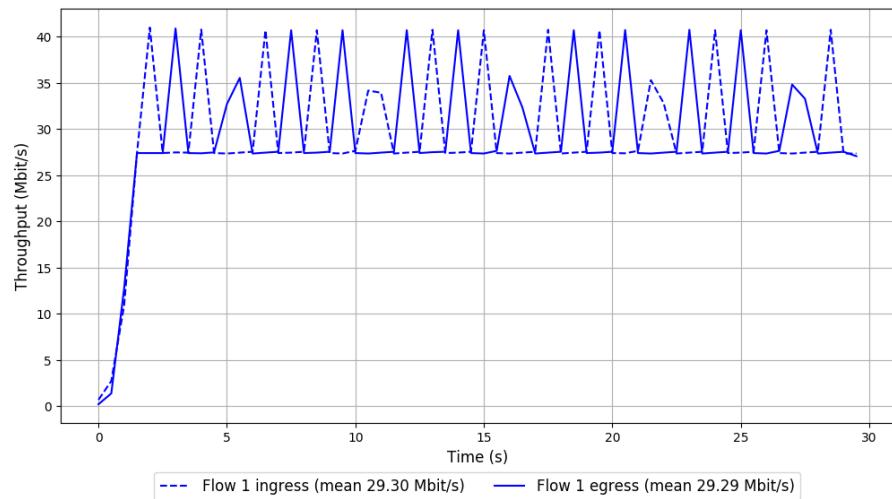
Run 9: Statistics of TCP Vegas

Start at: 2017-09-17 22:38:00

End at: 2017-09-17 22:38:30

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.29 Mbit/s
95th percentile per-packet one-way delay: 113.858 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 29.29 Mbit/s
95th percentile per-packet one-way delay: 113.858 ms
Loss rate: 0.78%
```

Run 9: Report of TCP Vegas — Data Link



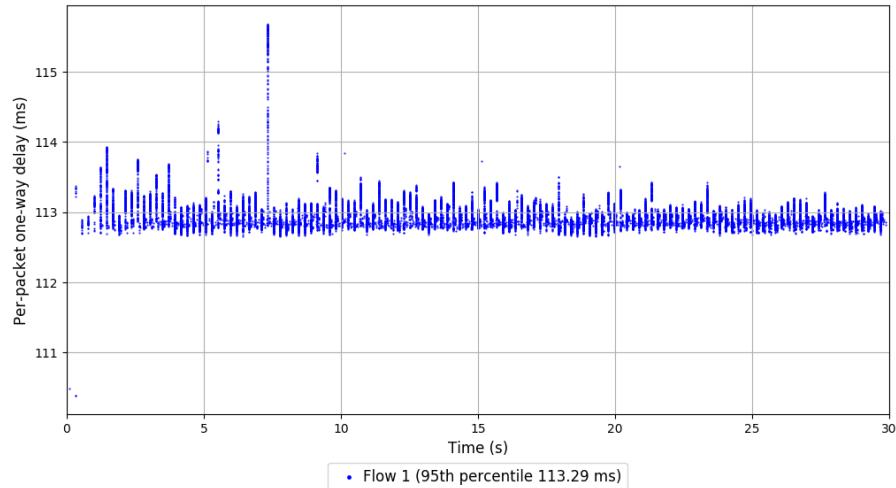
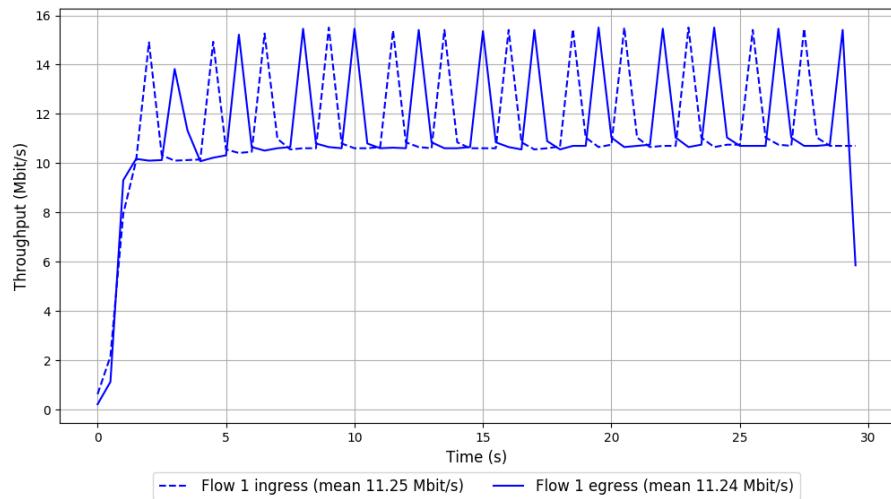
Run 10: Statistics of TCP Vegas

Start at: 2017-09-17 22:49:57

End at: 2017-09-17 22:50:27

```
# Below is generated by plot.py at 2017-09-18 01:42:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 113.290 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 11.24 Mbit/s
95th percentile per-packet one-way delay: 113.290 ms
Loss rate: 0.79%
```

Run 10: Report of TCP Vegas — Data Link



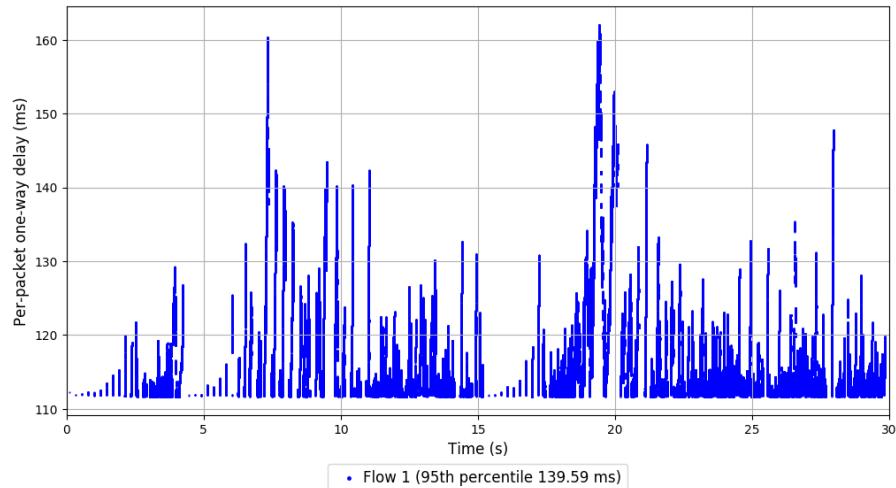
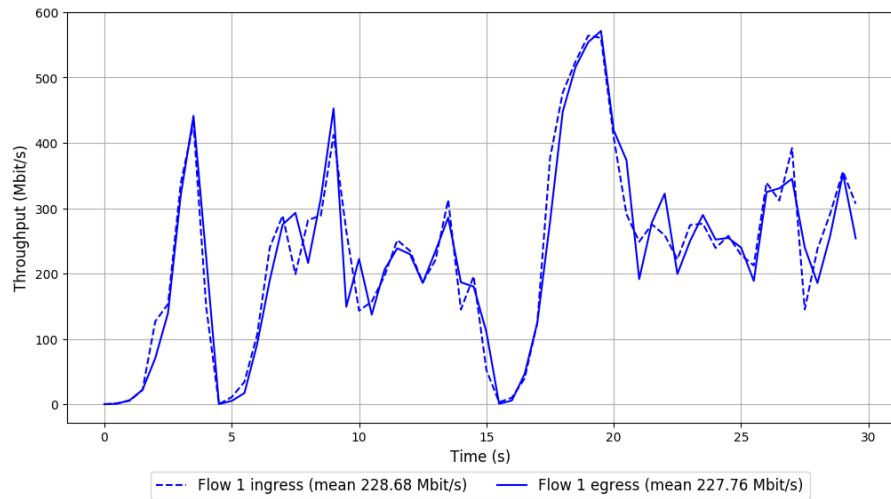
Run 1: Statistics of Verus

Start at: 2017-09-17 21:00:05

End at: 2017-09-17 21:00:35

```
# Below is generated by plot.py at 2017-09-18 01:43:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.76 Mbit/s
95th percentile per-packet one-way delay: 139.594 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 227.76 Mbit/s
95th percentile per-packet one-way delay: 139.594 ms
Loss rate: 1.15%
```

Run 1: Report of Verus — Data Link



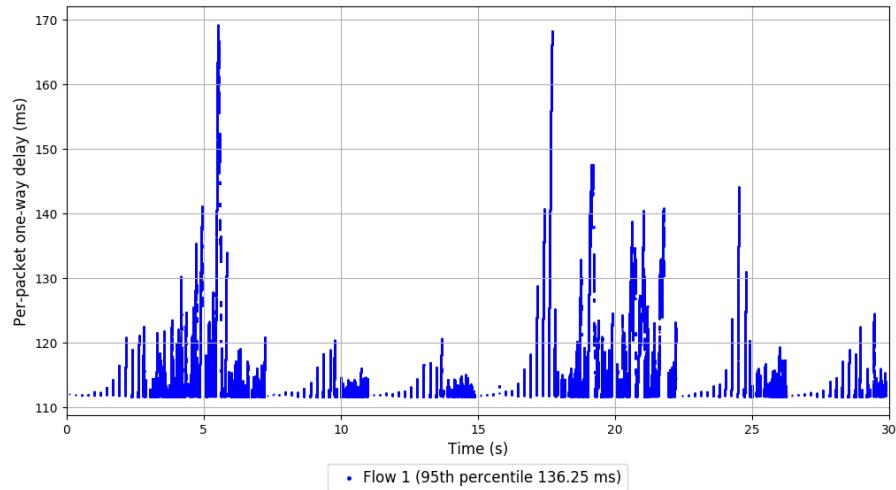
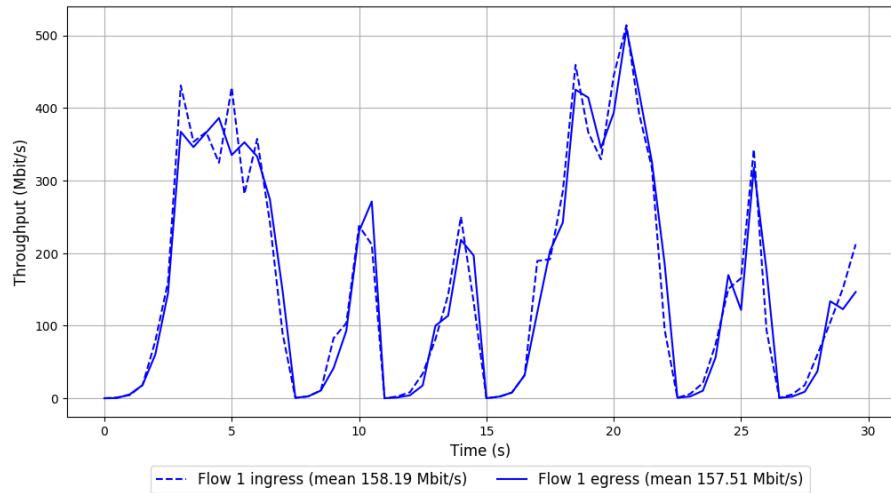
Run 2: Statistics of Verus

Start at: 2017-09-17 21:12:15

End at: 2017-09-17 21:12:45

```
# Below is generated by plot.py at 2017-09-18 01:43:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.51 Mbit/s
95th percentile per-packet one-way delay: 136.250 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 157.51 Mbit/s
95th percentile per-packet one-way delay: 136.250 ms
Loss rate: 1.06%
```

Run 2: Report of Verus — Data Link



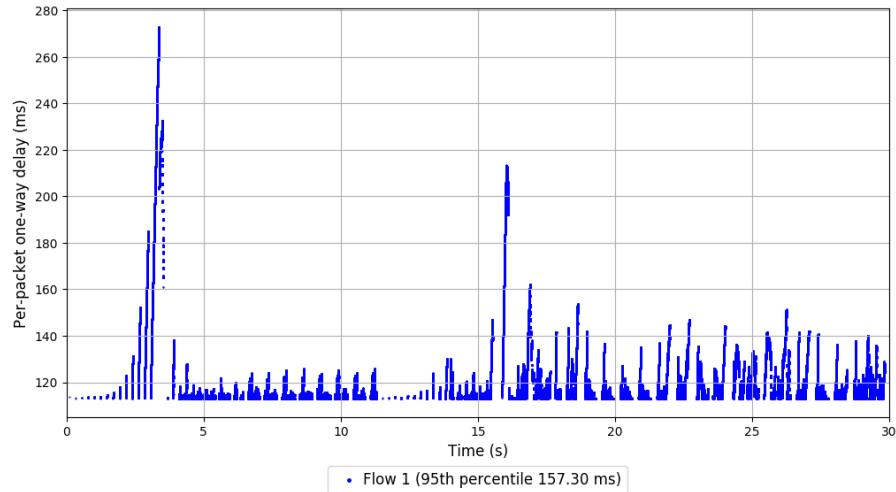
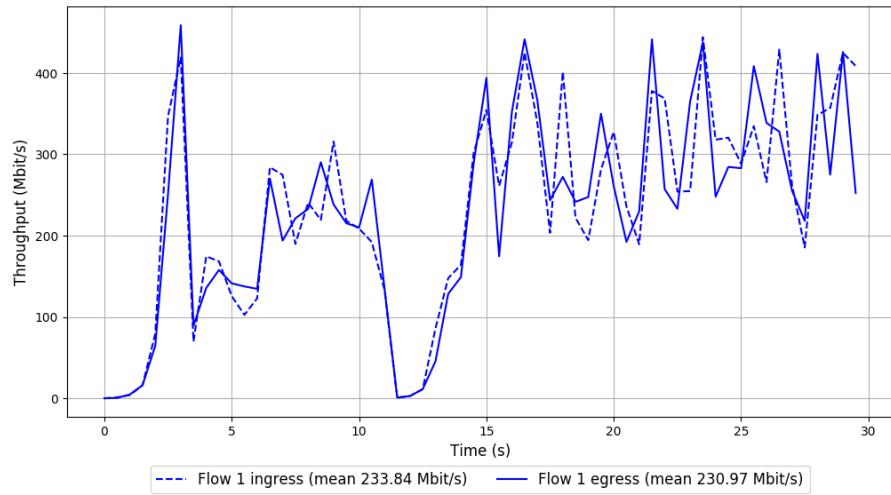
Run 3: Statistics of Verus

Start at: 2017-09-17 21:24:00

End at: 2017-09-17 21:24:30

```
# Below is generated by plot.py at 2017-09-18 01:44:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.97 Mbit/s
95th percentile per-packet one-way delay: 157.298 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 230.97 Mbit/s
95th percentile per-packet one-way delay: 157.298 ms
Loss rate: 1.97%
```

Run 3: Report of Verus — Data Link



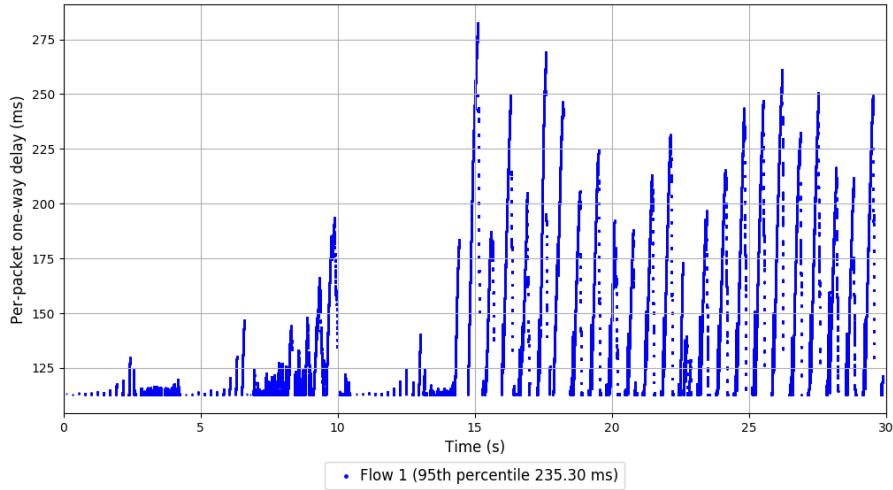
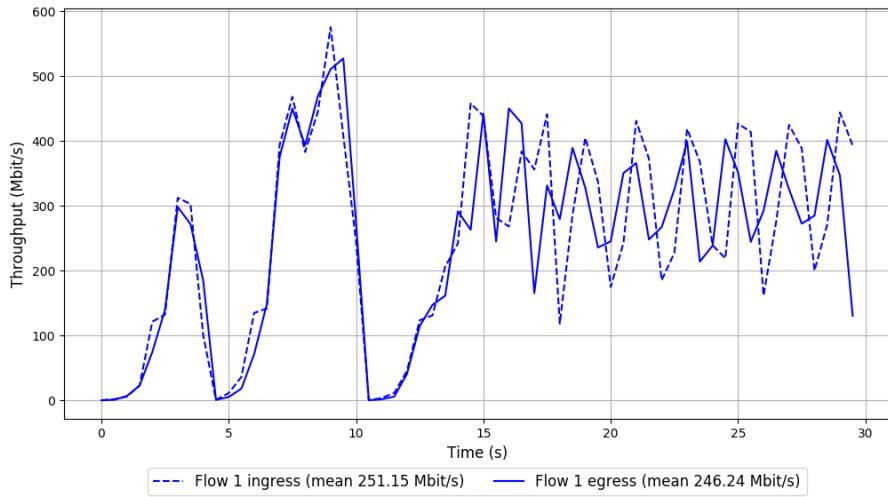
Run 4: Statistics of Verus

Start at: 2017-09-17 21:35:59

End at: 2017-09-17 21:36:29

```
# Below is generated by plot.py at 2017-09-18 01:45:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.24 Mbit/s
95th percentile per-packet one-way delay: 235.299 ms
Loss rate: 2.68%
-- Flow 1:
Average throughput: 246.24 Mbit/s
95th percentile per-packet one-way delay: 235.299 ms
Loss rate: 2.68%
```

Run 4: Report of Verus — Data Link



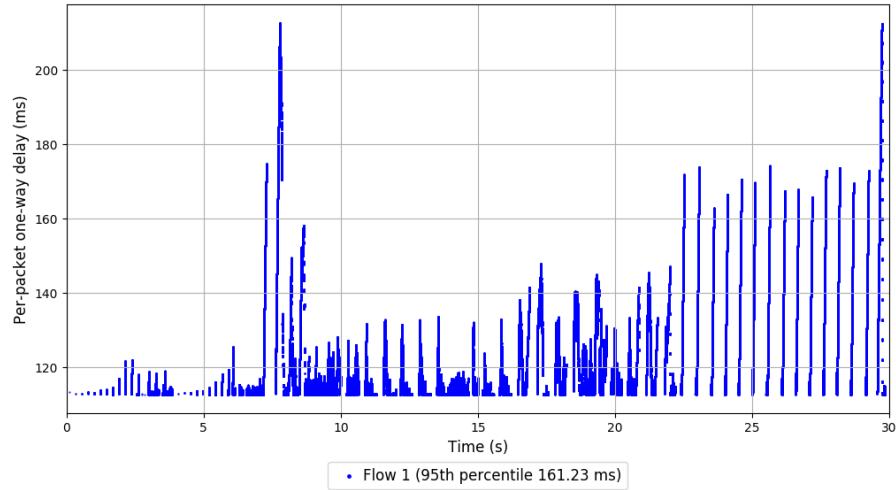
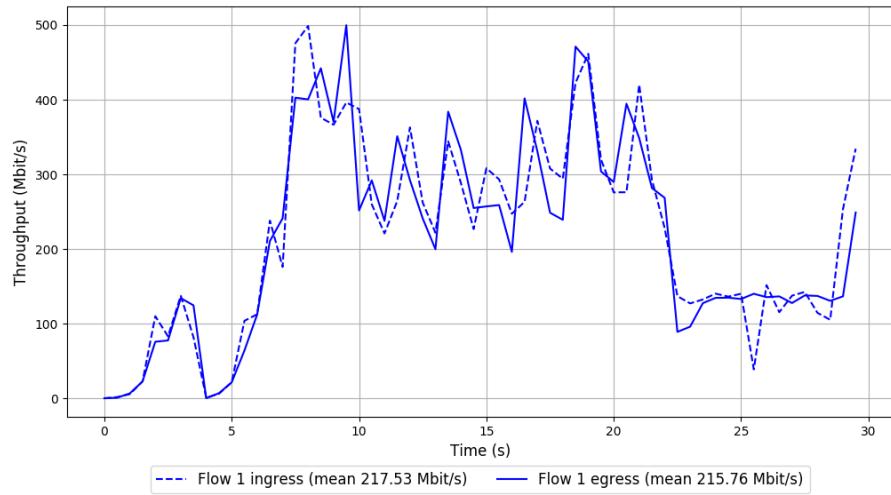
Run 5: Statistics of Verus

Start at: 2017-09-17 21:47:54

End at: 2017-09-17 21:48:24

```
# Below is generated by plot.py at 2017-09-18 01:45:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.76 Mbit/s
95th percentile per-packet one-way delay: 161.228 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 215.76 Mbit/s
95th percentile per-packet one-way delay: 161.228 ms
Loss rate: 1.55%
```

Run 5: Report of Verus — Data Link



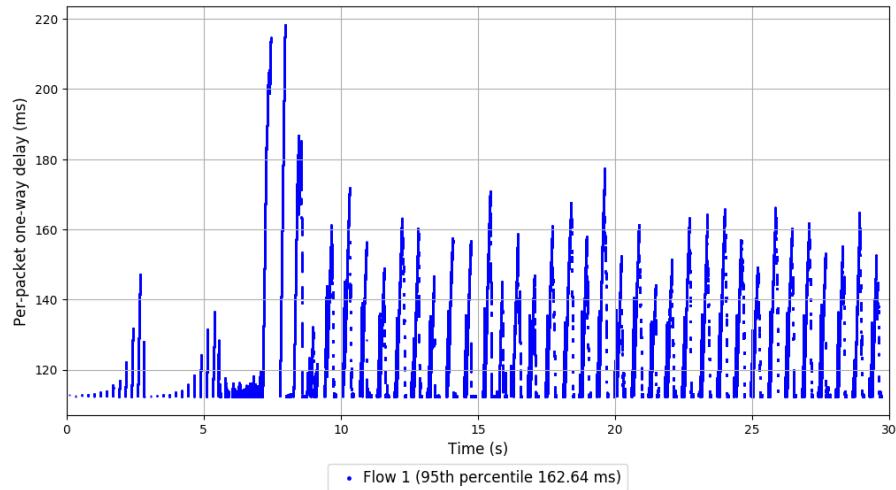
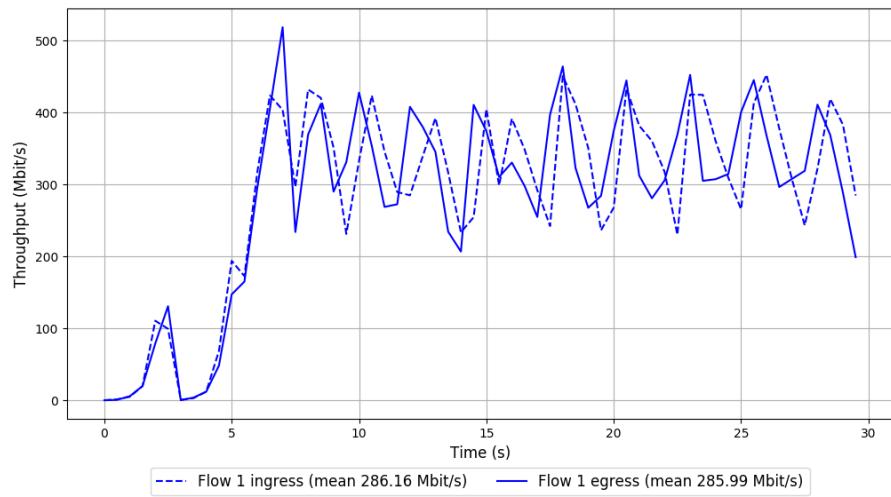
Run 6: Statistics of Verus

Start at: 2017-09-17 21:59:59

End at: 2017-09-17 22:00:29

```
# Below is generated by plot.py at 2017-09-18 01:45:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 285.99 Mbit/s
95th percentile per-packet one-way delay: 162.642 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 285.99 Mbit/s
95th percentile per-packet one-way delay: 162.642 ms
Loss rate: 1.34%
```

Run 6: Report of Verus — Data Link



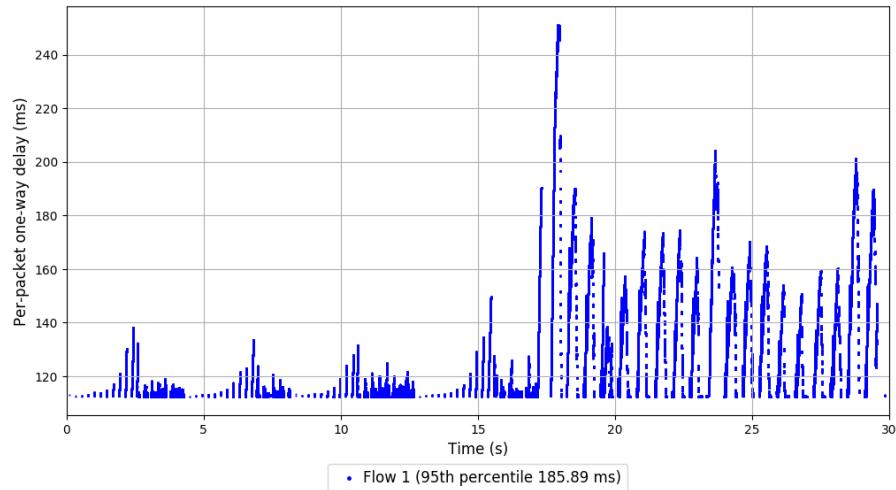
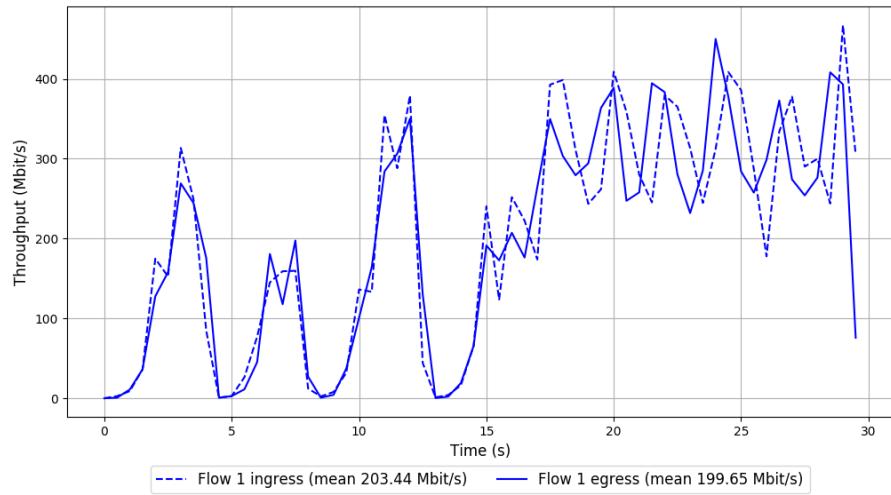
Run 7: Statistics of Verus

Start at: 2017-09-17 22:12:07

End at: 2017-09-17 22:12:37

```
# Below is generated by plot.py at 2017-09-18 01:45:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.65 Mbit/s
95th percentile per-packet one-way delay: 185.888 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 199.65 Mbit/s
95th percentile per-packet one-way delay: 185.888 ms
Loss rate: 2.55%
```

Run 7: Report of Verus — Data Link



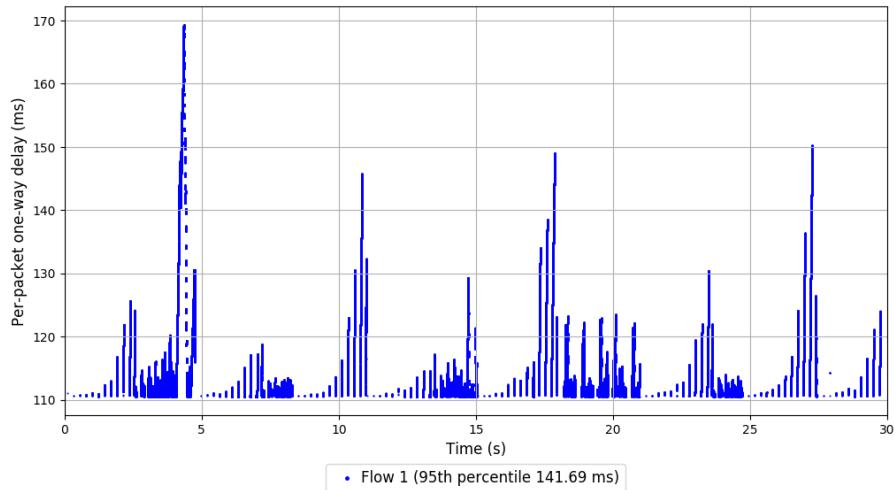
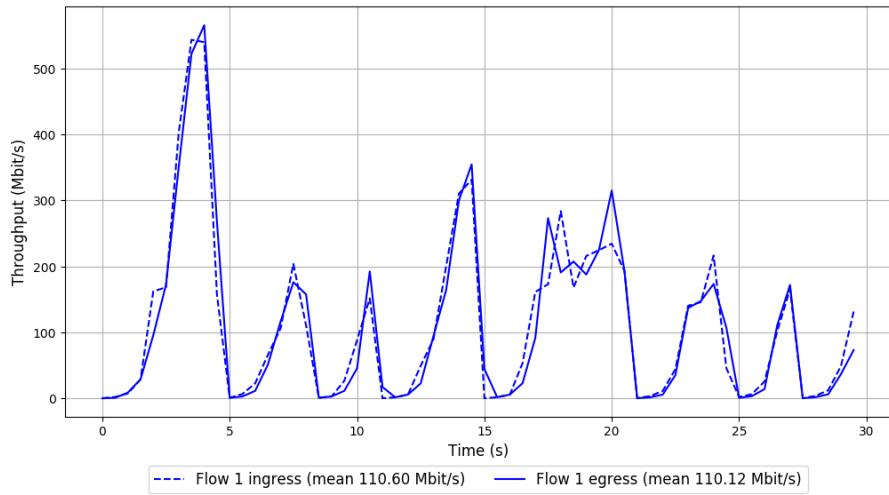
Run 8: Statistics of Verus

Start at: 2017-09-17 22:24:12

End at: 2017-09-17 22:24:42

```
# Below is generated by plot.py at 2017-09-18 01:45:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 110.12 Mbit/s
95th percentile per-packet one-way delay: 141.694 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 110.12 Mbit/s
95th percentile per-packet one-way delay: 141.694 ms
Loss rate: 1.19%
```

Run 8: Report of Verus — Data Link



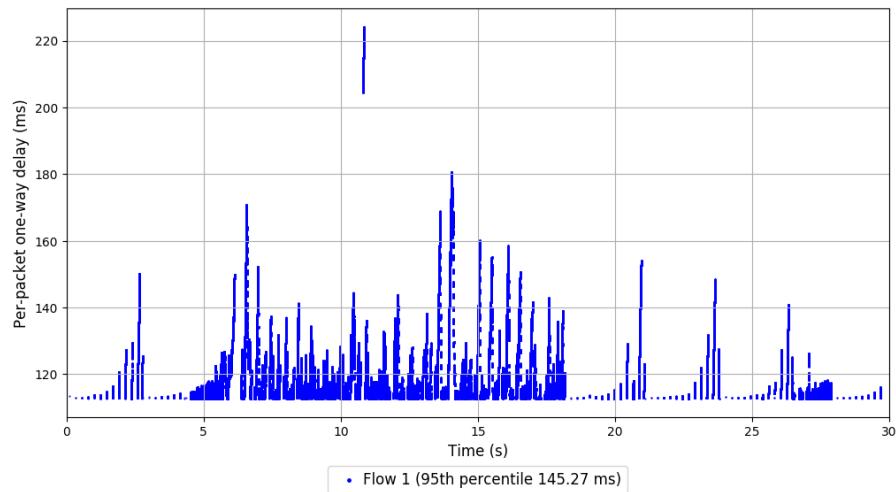
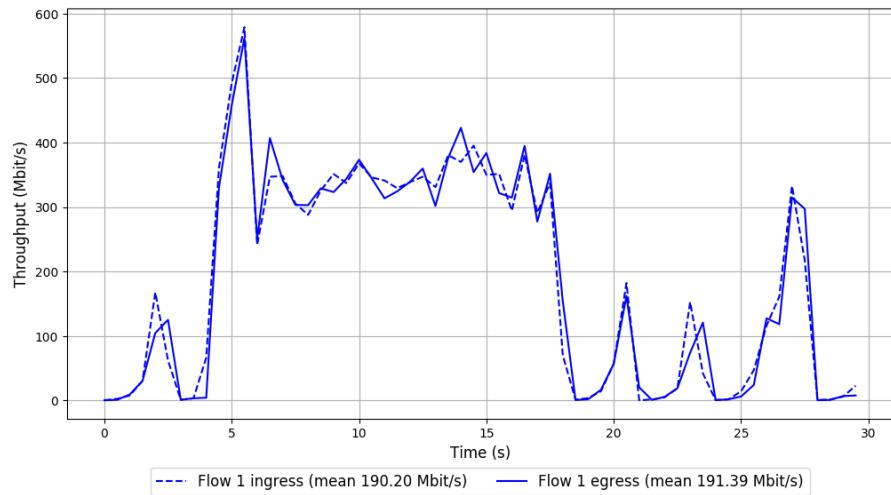
Run 9: Statistics of Verus

Start at: 2017-09-17 22:36:18

End at: 2017-09-17 22:36:48

```
# Below is generated by plot.py at 2017-09-18 01:45:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.39 Mbit/s
95th percentile per-packet one-way delay: 145.270 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 191.39 Mbit/s
95th percentile per-packet one-way delay: 145.270 ms
Loss rate: 0.13%
```

Run 9: Report of Verus — Data Link



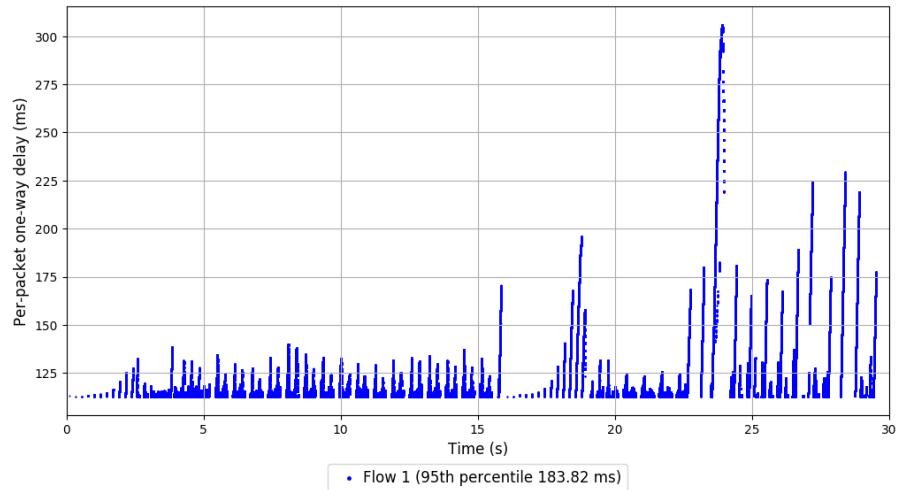
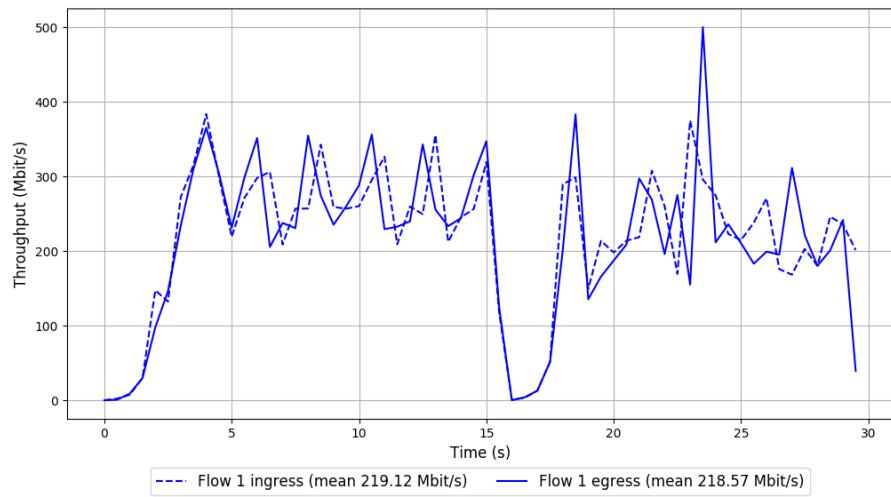
Run 10: Statistics of Verus

Start at: 2017-09-17 22:48:13

End at: 2017-09-17 22:48:43

```
# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.57 Mbit/s
95th percentile per-packet one-way delay: 183.817 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 218.57 Mbit/s
95th percentile per-packet one-way delay: 183.817 ms
Loss rate: 1.66%
```

Run 10: Report of Verus — Data Link

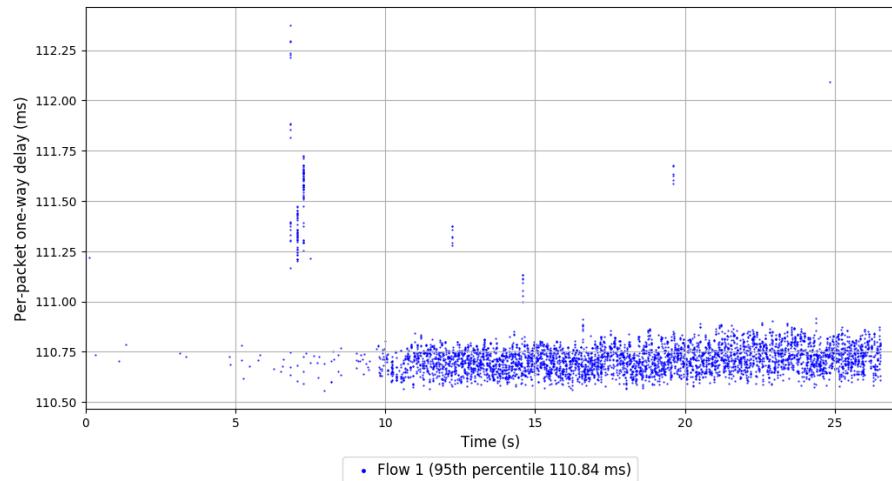
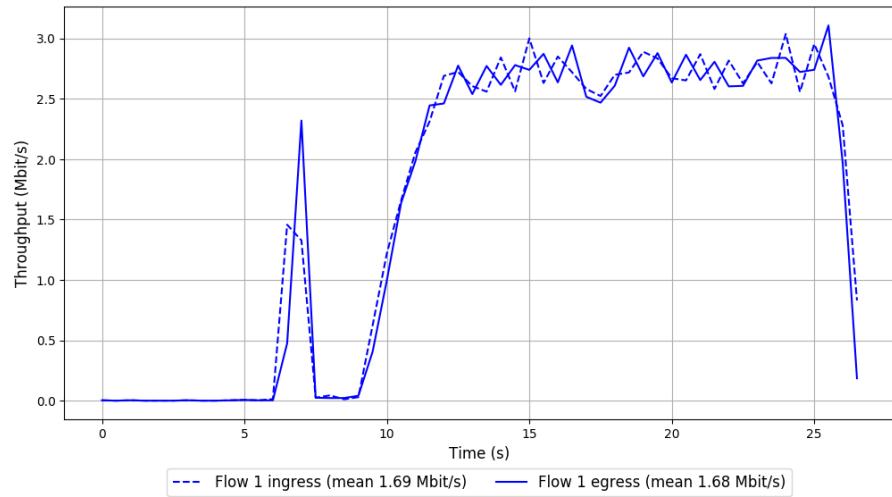


```
Run 1: Statistics of WebRTC media

Start at: 2017-09-17 20:53:09
End at: 2017-09-17 20:53:39

# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 110.837 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 110.837 ms
Loss rate: 1.35%
```

Run 1: Report of WebRTC media — Data Link



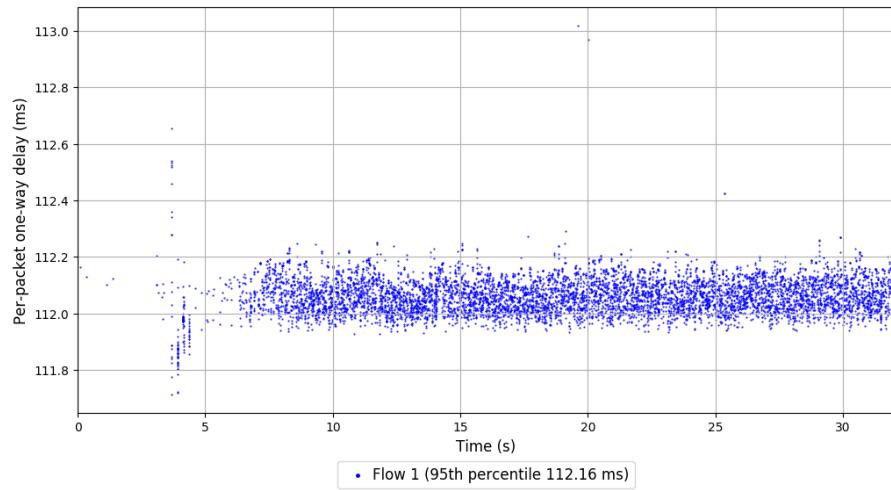
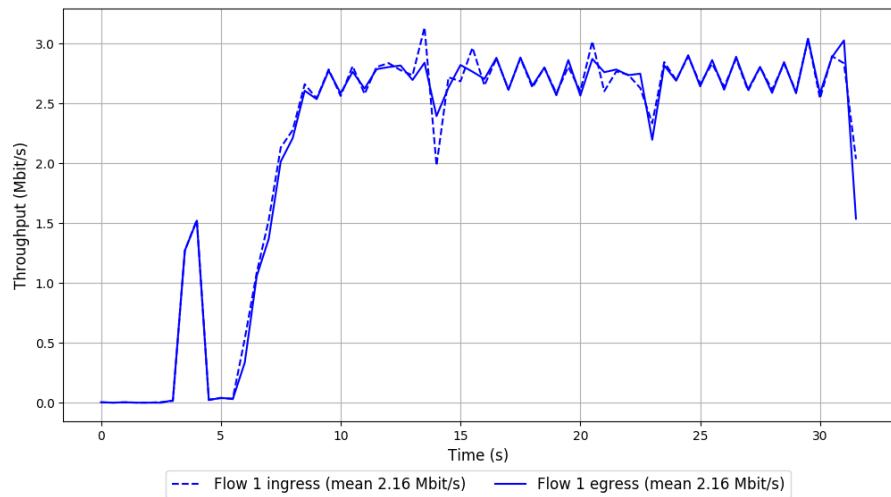
Run 2: Statistics of WebRTC media

Start at: 2017-09-17 21:05:13

End at: 2017-09-17 21:05:43

```
# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 112.160 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 112.160 ms
Loss rate: 0.68%
```

Run 2: Report of WebRTC media — Data Link



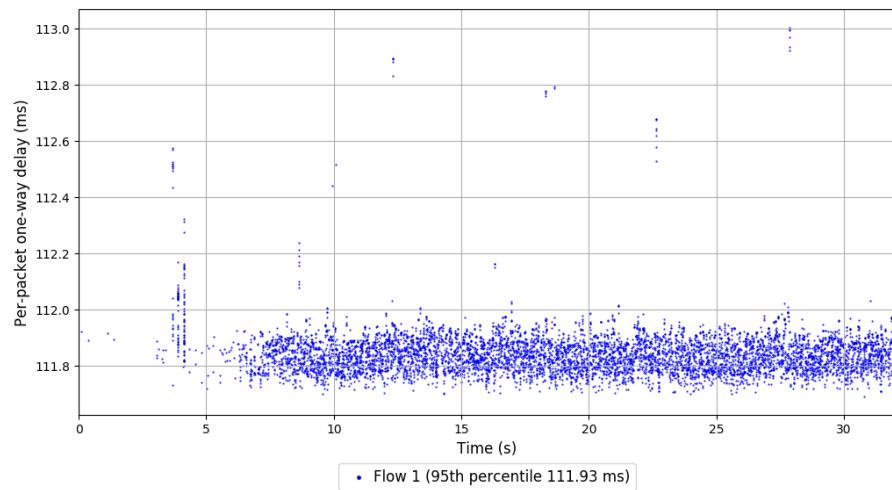
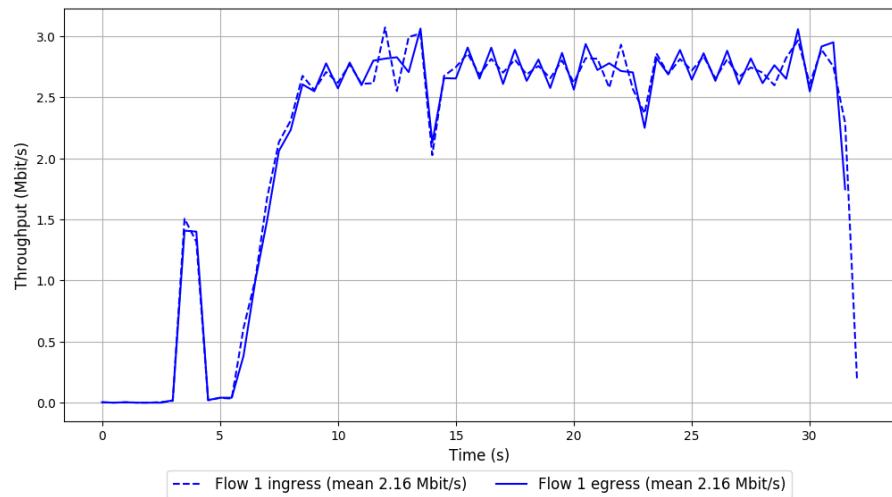
Run 3: Statistics of WebRTC media

Start at: 2017-09-17 21:17:07

End at: 2017-09-17 21:17:37

```
# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 111.934 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 111.934 ms
Loss rate: 0.84%
```

Run 3: Report of WebRTC media — Data Link



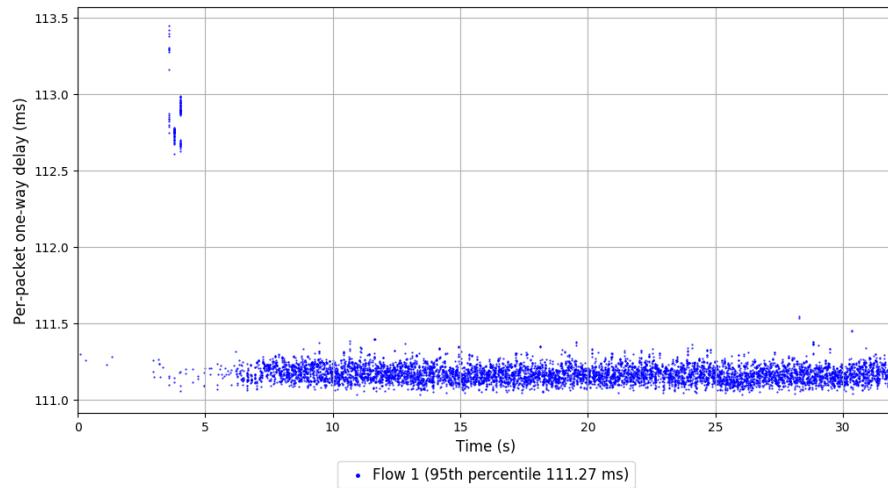
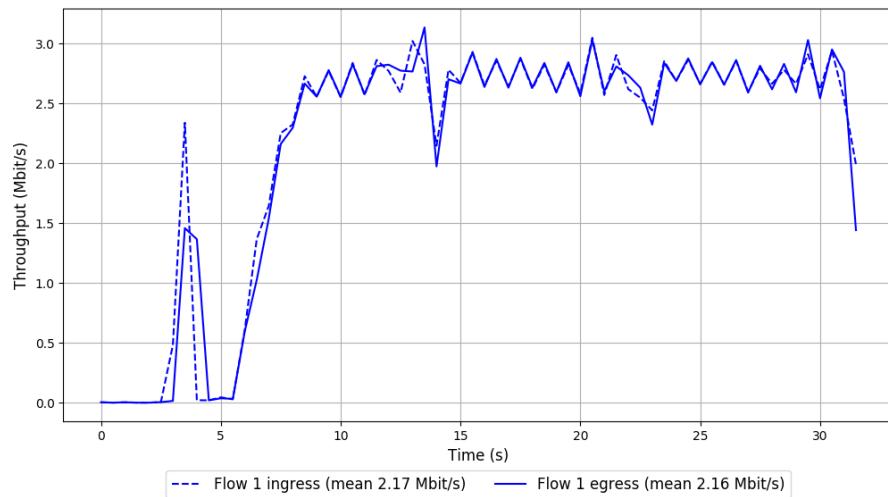
Run 4: Statistics of WebRTC media

Start at: 2017-09-17 21:28:58

End at: 2017-09-17 21:29:28

```
# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 111.268 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 111.268 ms
Loss rate: 0.70%
```

Run 4: Report of WebRTC media — Data Link

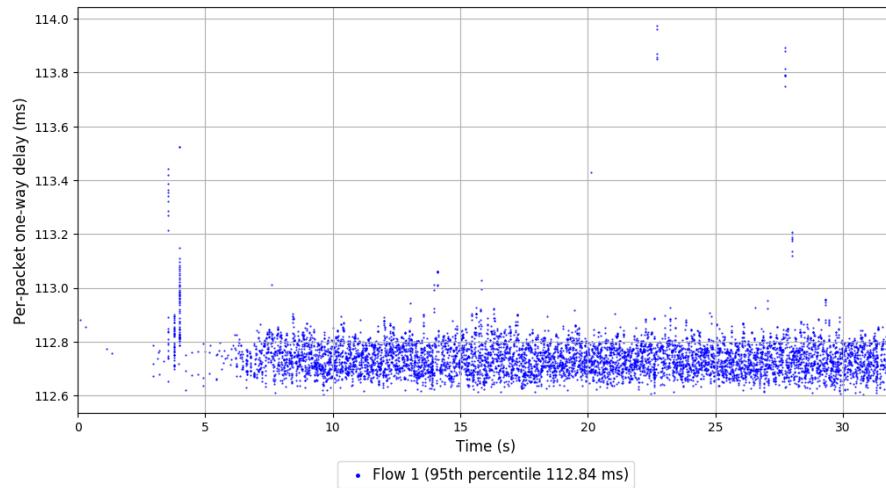
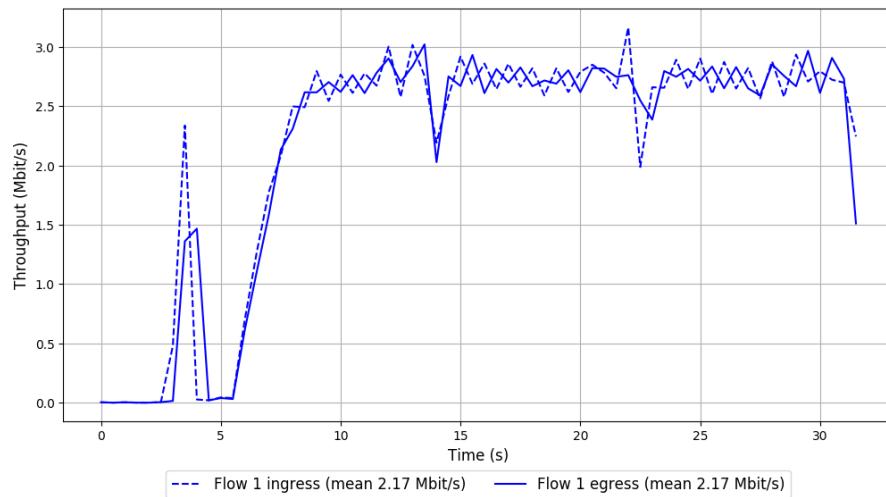


```
Run 5: Statistics of WebRTC media

Start at: 2017-09-17 21:40:57
End at: 2017-09-17 21:41:27

# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 112.837 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 112.837 ms
Loss rate: 0.86%
```

Run 5: Report of WebRTC media — Data Link

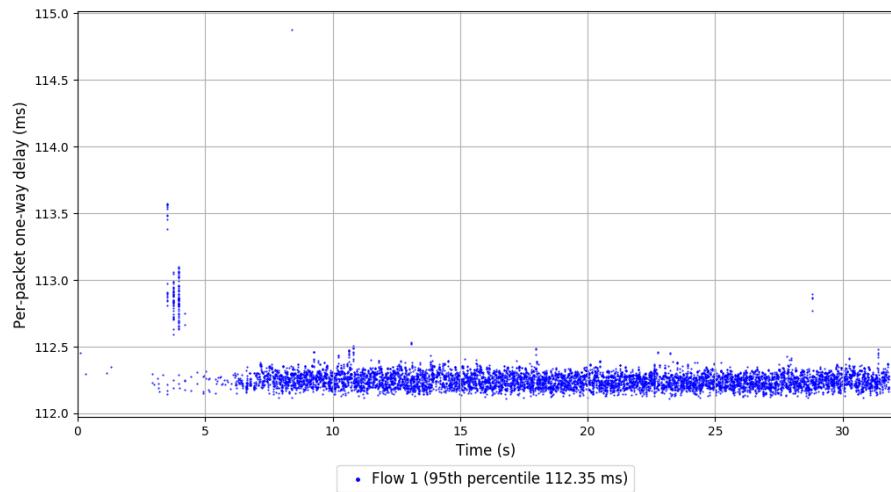
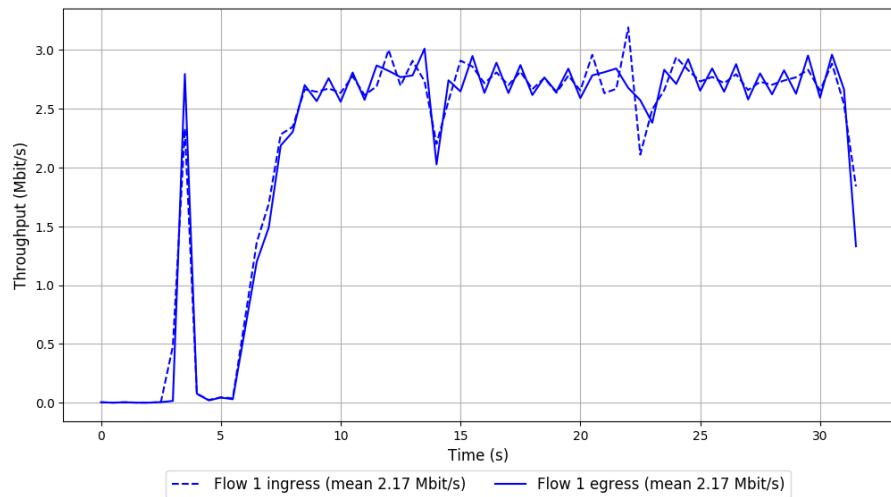


```
Run 6: Statistics of WebRTC media

Start at: 2017-09-17 21:53:06
End at: 2017-09-17 21:53:36

# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 112.346 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 112.346 ms
Loss rate: 0.70%
```

Run 6: Report of WebRTC media — Data Link



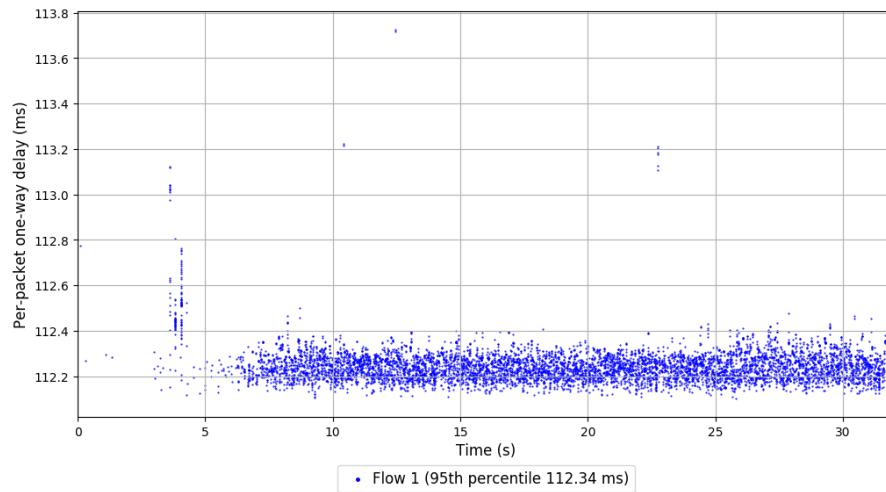
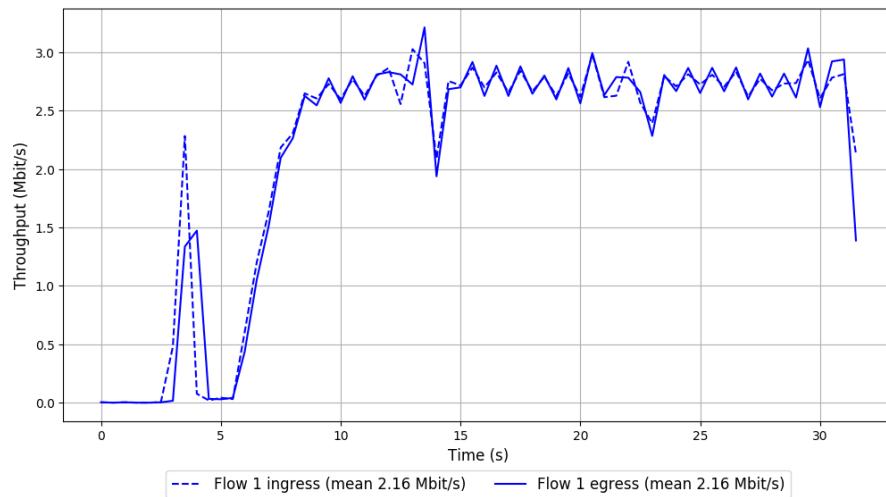
Run 7: Statistics of WebRTC media

Start at: 2017-09-17 22:05:07

End at: 2017-09-17 22:05:37

```
# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 112.345 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 112.345 ms
Loss rate: 0.83%
```

Run 7: Report of WebRTC media — Data Link



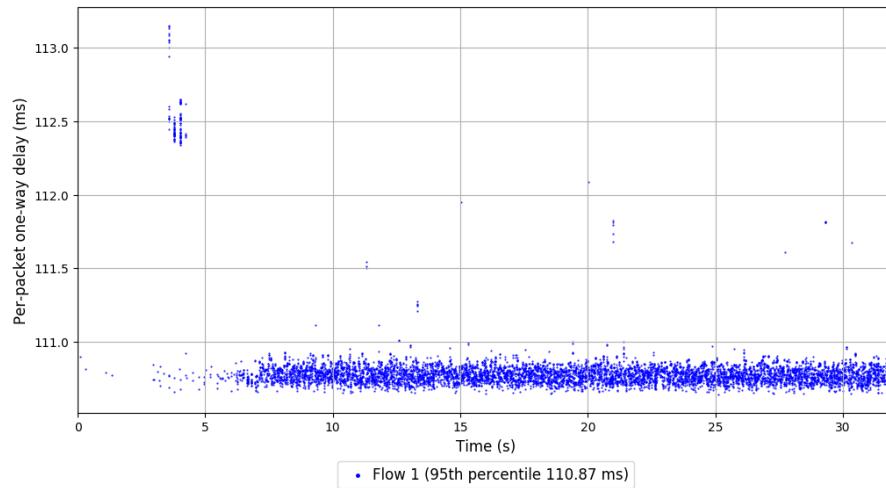
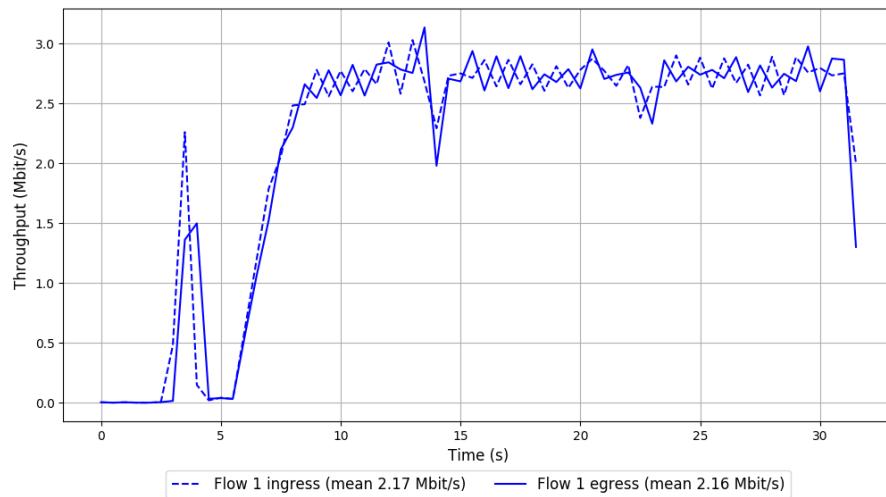
Run 8: Statistics of WebRTC media

Start at: 2017-09-17 22:17:20

End at: 2017-09-17 22:17:50

```
# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 110.873 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 110.873 ms
Loss rate: 0.81%
```

Run 8: Report of WebRTC media — Data Link

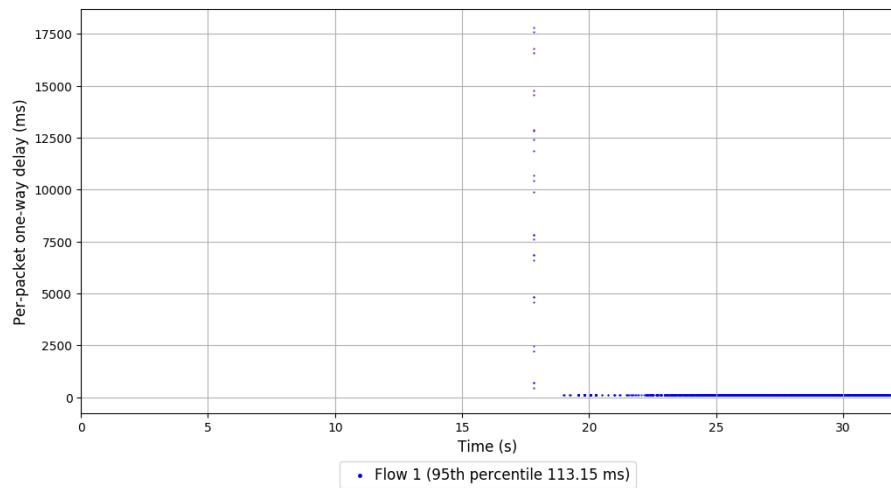
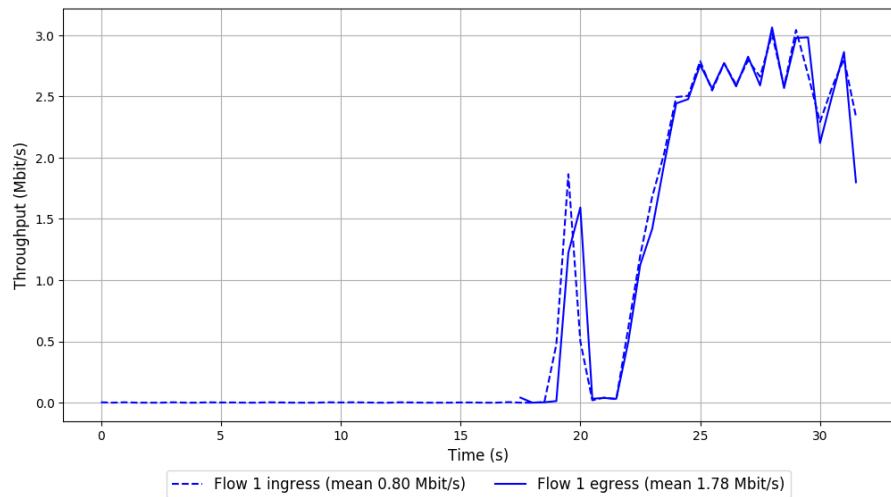


Run 9: Statistics of WebRTC media

Start at: 2017-09-17 22:29:17

End at: 2017-09-17 22:29:47

Run 9: Report of WebRTC media — Data Link



```
Run 10: Statistics of WebRTC media

Start at: 2017-09-17 22:41:12
End at: 2017-09-17 22:41:42

# Below is generated by plot.py at 2017-09-18 01:45:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 113.111 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 113.111 ms
Loss rate: 0.68%
```

Run 10: Report of WebRTC media — Data Link

