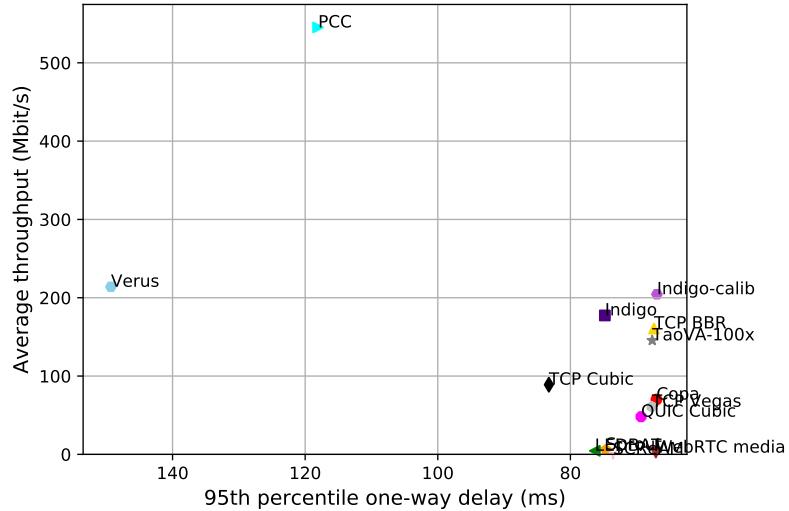


Pantheon Report

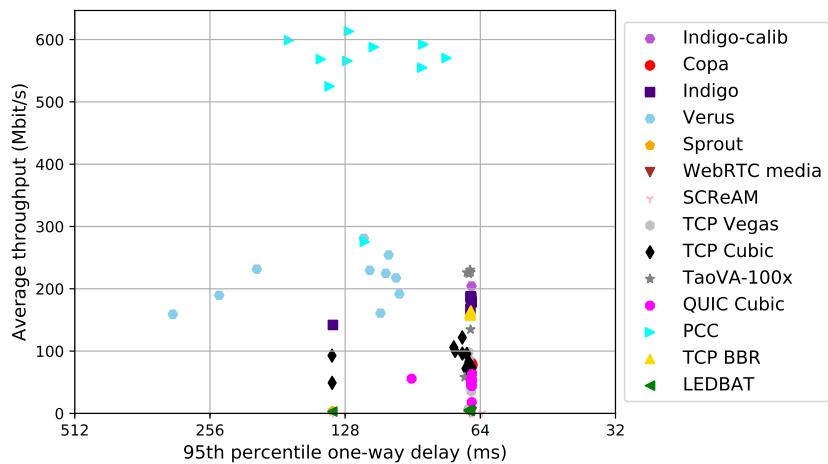
Generated at 2017-12-05 20:28:24 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

```
Git summary:  
branch: indigos @ e3a57ad5ac5cfaca0e3f983c8dd4cc3509e0262  
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50  
  M datagrump/sender.cc  
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737  
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55  
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2  
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89  
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c  
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5  
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fabb936fdca204b80db  
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda  
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 @ f1a14bf7e749737437f61b1eaeeb30b267cde681  
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 Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Tokyo Ethernet to GCE Iowa 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	160.76	67.39	0.53
TCP Cubic	10	88.98	83.25	0.66
LEDBAT	8	4.51	76.33	1.01
PCC	10	545.14	118.05	1.20
QUIC Cubic	10	48.12	69.35	0.71
SCReAM	10	0.21	73.56	0.42
WebRTC media	10	2.25	67.12	0.57
Sprout	10	5.83	74.65	0.61
TaoVA-100x	8	145.57	67.66	0.38
TCP Vegas	7	60.80	67.72	0.53
Verus	10	213.99	149.30	1.43
Copa	9	70.00	67.03	0.38
Indigo	9	177.39	74.80	0.46
Indigo-calib	1	204.49	66.95	0.65

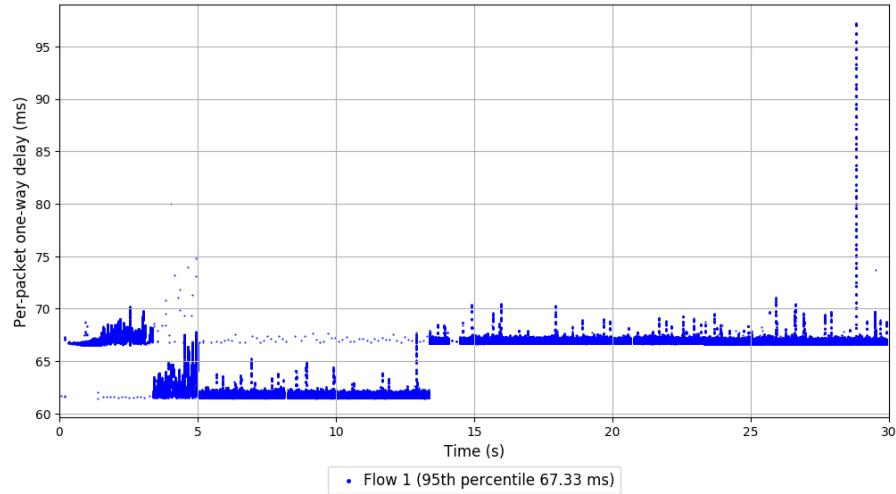
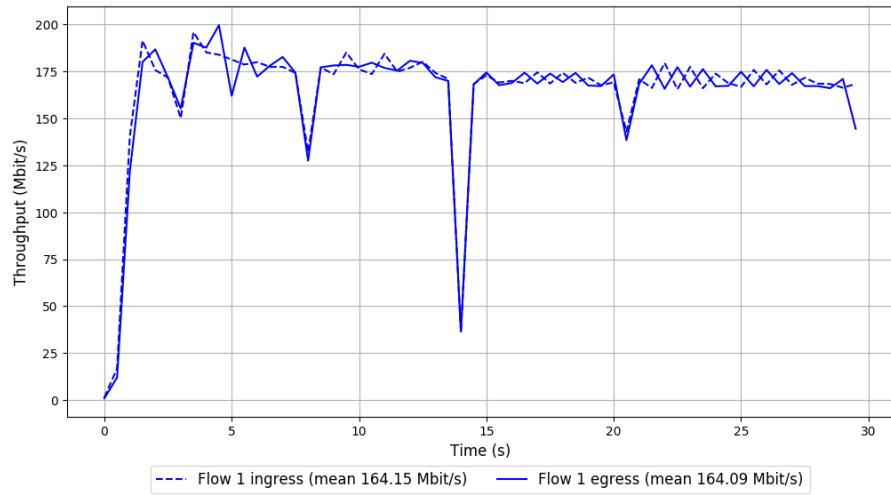
Run 1: Statistics of TCP BBR

Start at: 2017-12-05 16:21:14

End at: 2017-12-05 16:21:44

```
# Below is generated by plot.py at 2017-12-05 19:53:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.09 Mbit/s
95th percentile per-packet one-way delay: 67.335 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 164.09 Mbit/s
95th percentile per-packet one-way delay: 67.335 ms
Loss rate: 0.48%
```

Run 1: Report of TCP BBR — Data Link



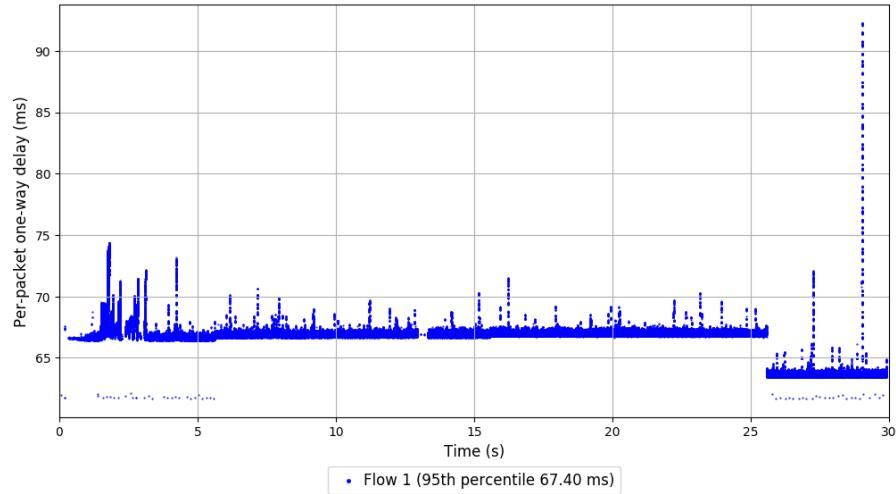
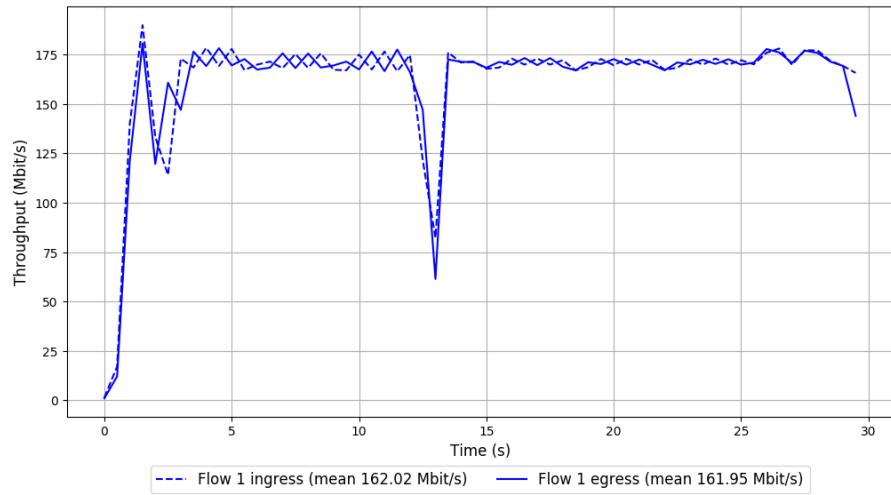
Run 2: Statistics of TCP BBR

Start at: 2017-12-05 16:31:32

End at: 2017-12-05 16:32:02

```
# Below is generated by plot.py at 2017-12-05 19:53:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.95 Mbit/s
95th percentile per-packet one-way delay: 67.399 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 161.95 Mbit/s
95th percentile per-packet one-way delay: 67.399 ms
Loss rate: 0.47%
```

Run 2: Report of TCP BBR — Data Link



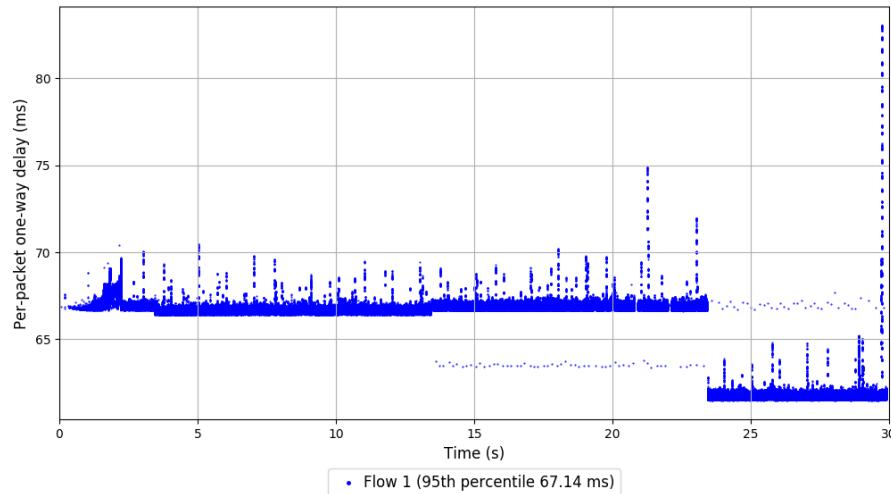
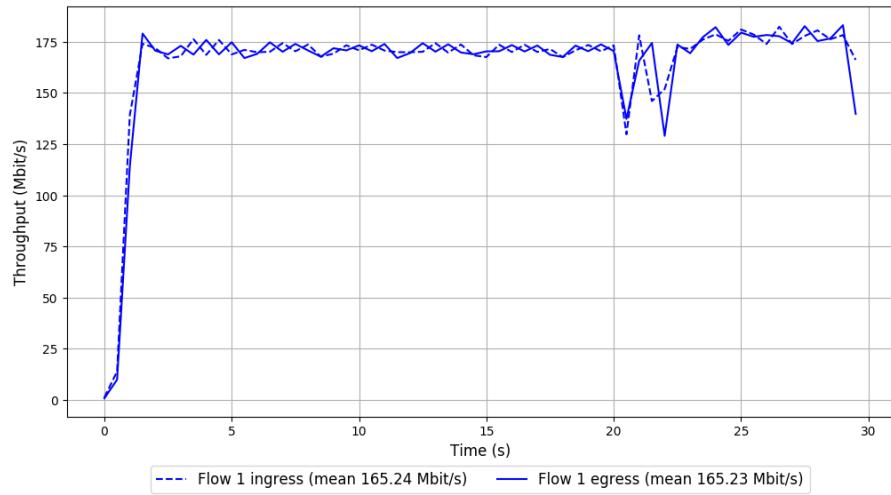
Run 3: Statistics of TCP BBR

Start at: 2017-12-05 16:41:44

End at: 2017-12-05 16:42:14

```
# Below is generated by plot.py at 2017-12-05 19:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.23 Mbit/s
95th percentile per-packet one-way delay: 67.141 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 165.23 Mbit/s
95th percentile per-packet one-way delay: 67.141 ms
Loss rate: 0.46%
```

Run 3: Report of TCP BBR — Data Link



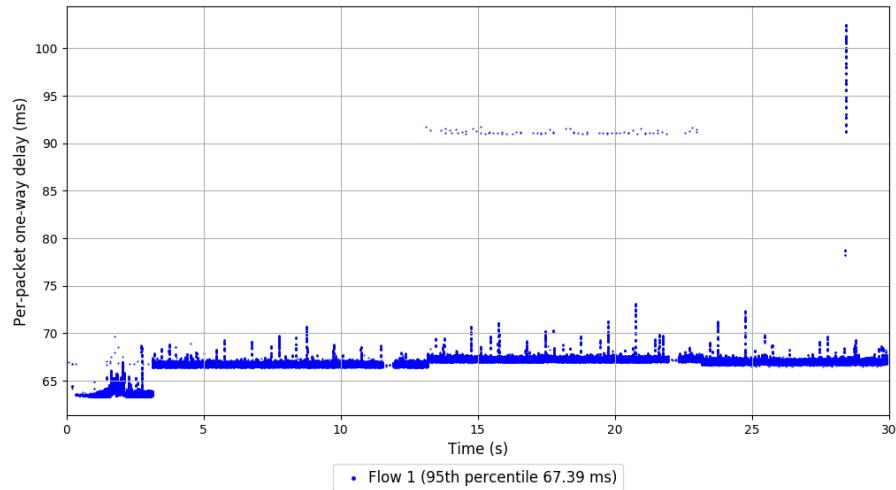
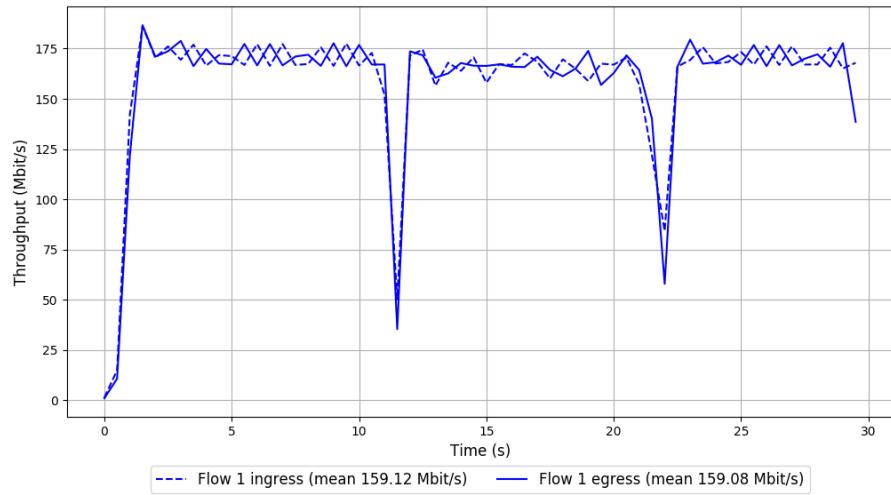
Run 4: Statistics of TCP BBR

Start at: 2017-12-05 16:52:14

End at: 2017-12-05 16:52:44

```
# Below is generated by plot.py at 2017-12-05 19:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.08 Mbit/s
95th percentile per-packet one-way delay: 67.392 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 159.08 Mbit/s
95th percentile per-packet one-way delay: 67.392 ms
Loss rate: 0.48%
```

Run 4: Report of TCP BBR — Data Link



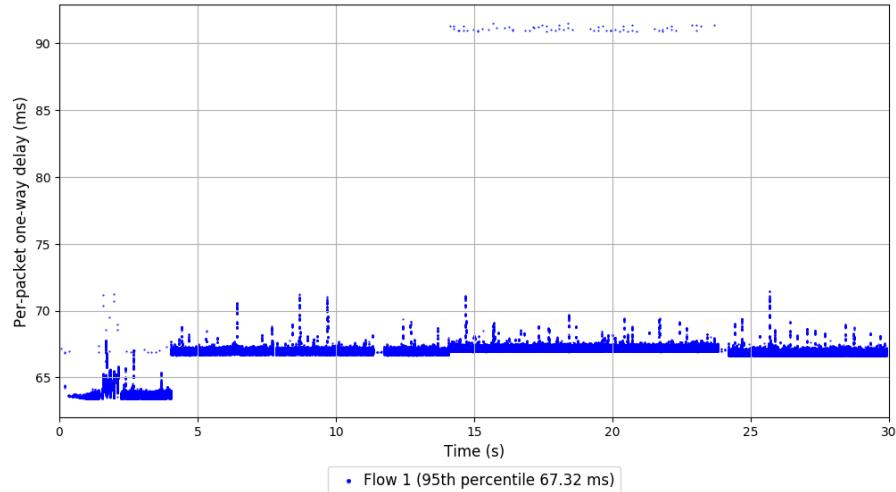
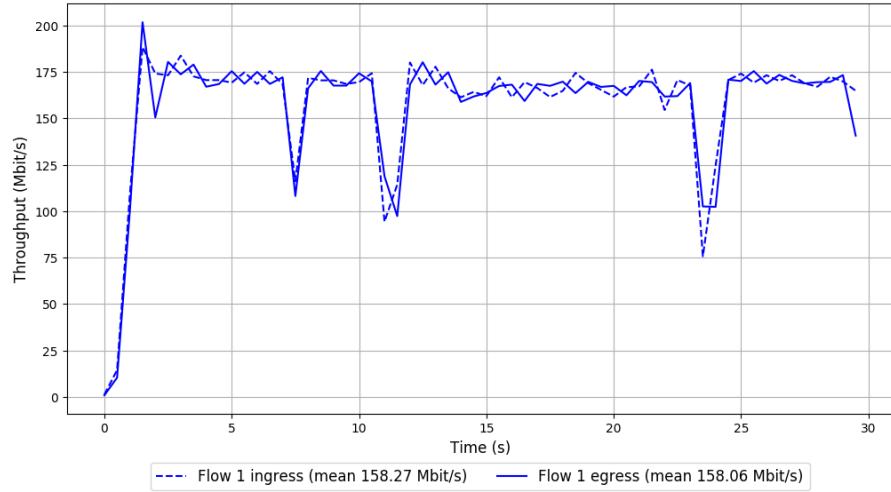
Run 5: Statistics of TCP BBR

Start at: 2017-12-05 17:02:33

End at: 2017-12-05 17:03:03

```
# Below is generated by plot.py at 2017-12-05 19:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 158.06 Mbit/s
95th percentile per-packet one-way delay: 67.324 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 158.06 Mbit/s
95th percentile per-packet one-way delay: 67.324 ms
Loss rate: 0.58%
```

Run 5: Report of TCP BBR — Data Link



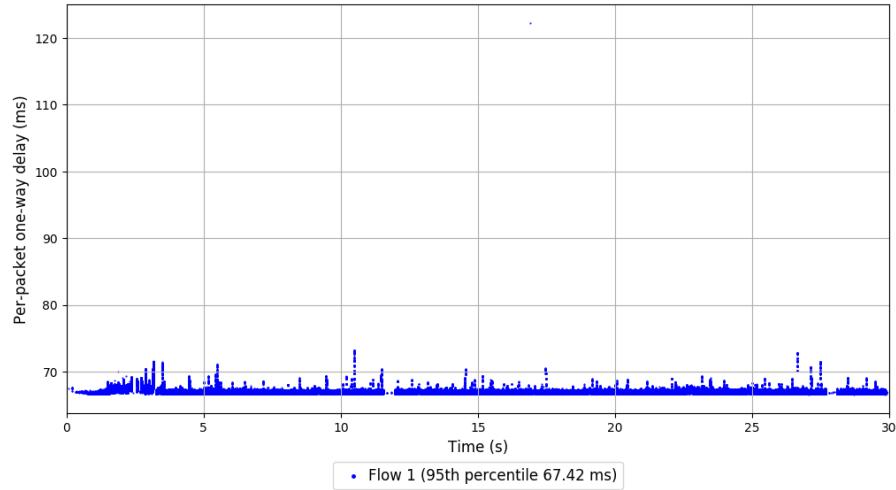
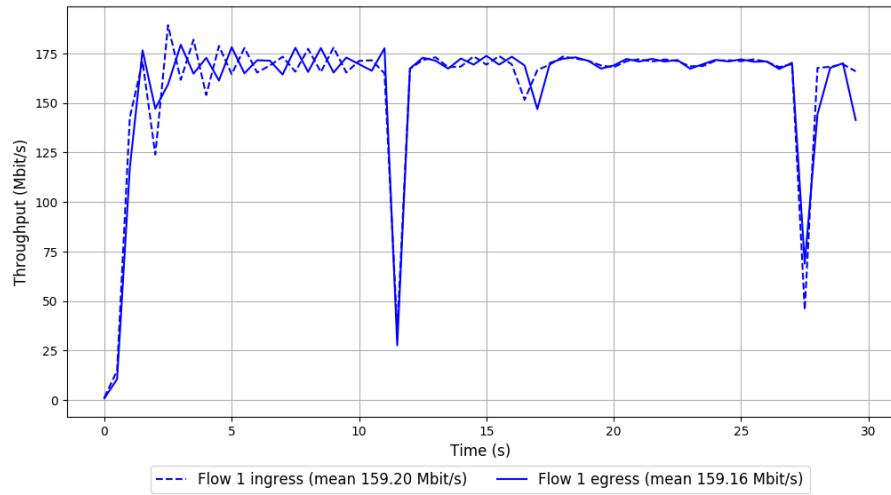
Run 6: Statistics of TCP BBR

Start at: 2017-12-05 17:13:00

End at: 2017-12-05 17:13:30

```
# Below is generated by plot.py at 2017-12-05 19:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.16 Mbit/s
95th percentile per-packet one-way delay: 67.422 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 159.16 Mbit/s
95th percentile per-packet one-way delay: 67.422 ms
Loss rate: 0.50%
```

Run 6: Report of TCP BBR — Data Link



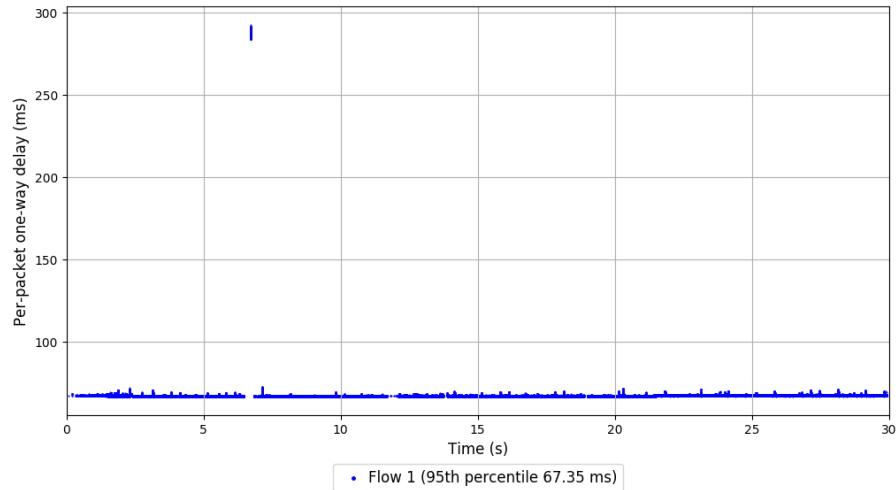
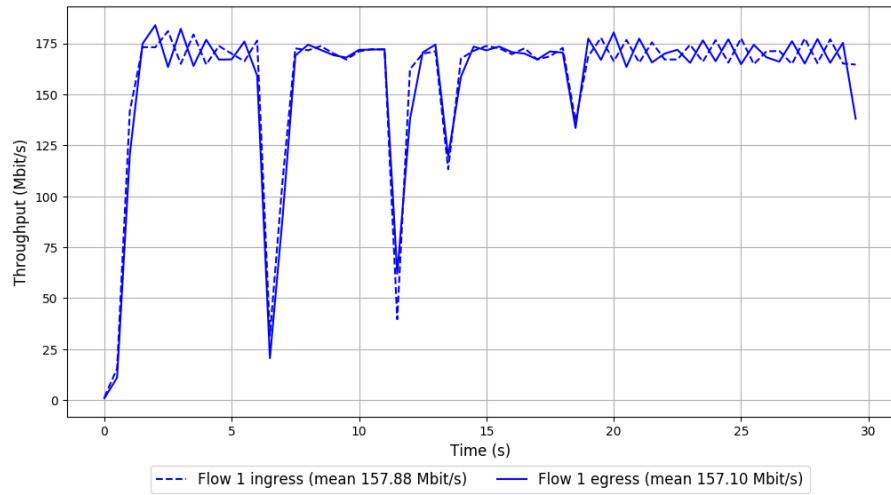
Run 7: Statistics of TCP BBR

Start at: 2017-12-05 17:23:16

End at: 2017-12-05 17:23:46

```
# Below is generated by plot.py at 2017-12-05 19:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.10 Mbit/s
95th percentile per-packet one-way delay: 67.353 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 157.10 Mbit/s
95th percentile per-packet one-way delay: 67.353 ms
Loss rate: 0.93%
```

Run 7: Report of TCP BBR — Data Link



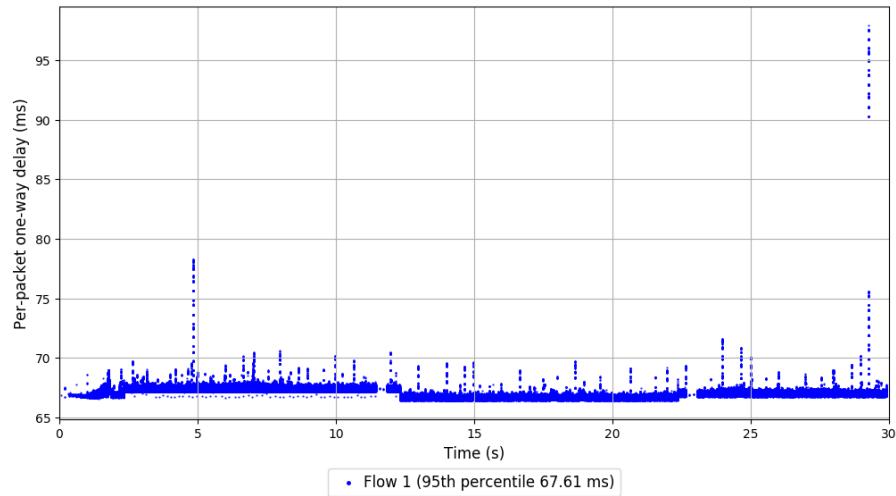
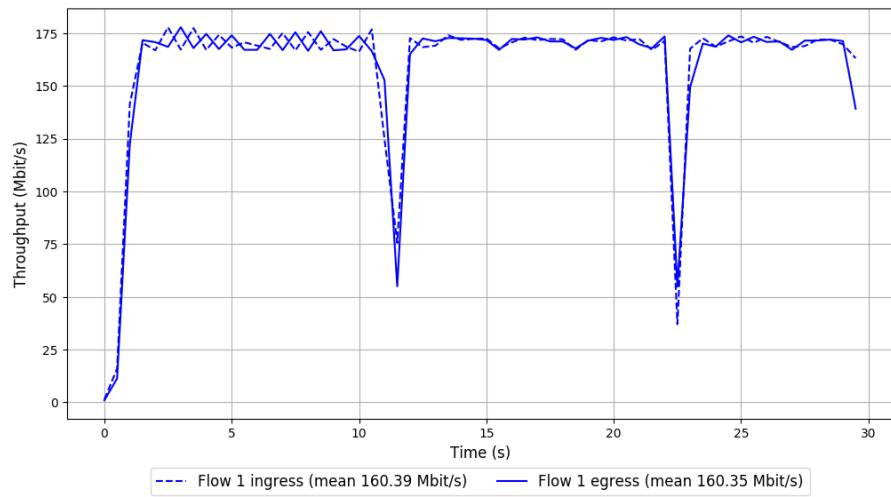
Run 8: Statistics of TCP BBR

Start at: 2017-12-05 17:33:45

End at: 2017-12-05 17:34:15

```
# Below is generated by plot.py at 2017-12-05 19:53:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.35 Mbit/s
95th percentile per-packet one-way delay: 67.607 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 160.35 Mbit/s
95th percentile per-packet one-way delay: 67.607 ms
Loss rate: 0.47%
```

Run 8: Report of TCP BBR — Data Link



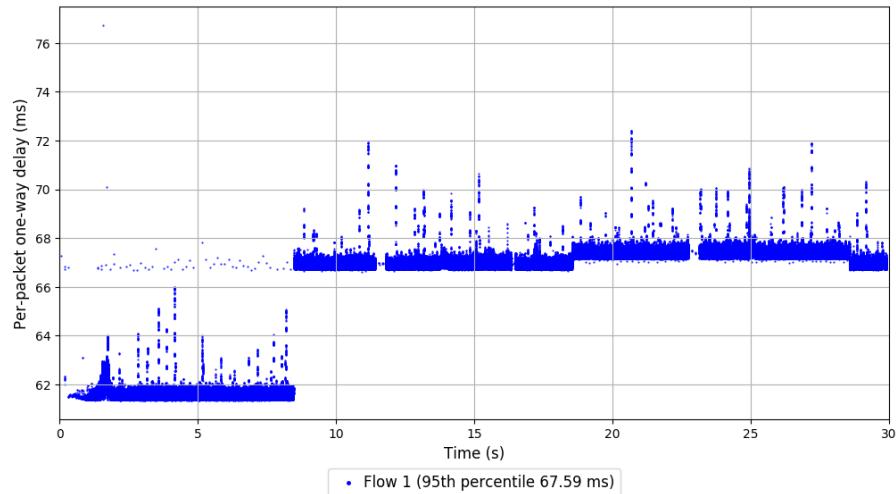
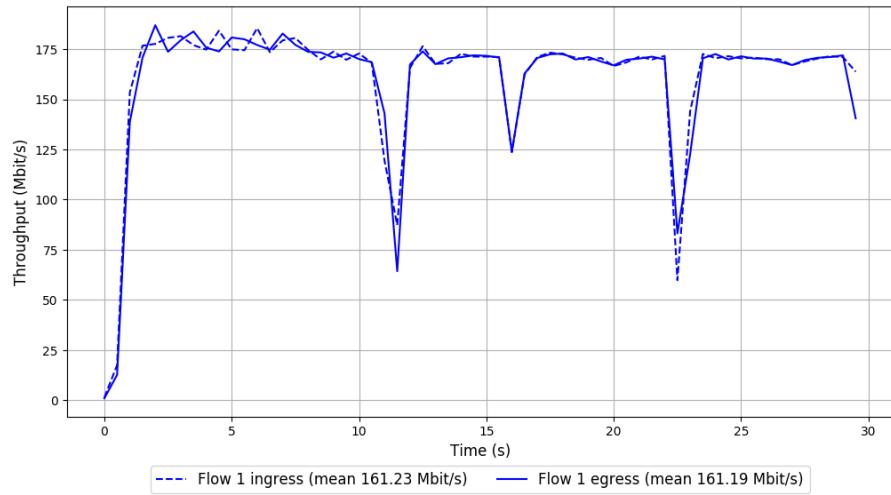
Run 9: Statistics of TCP BBR

Start at: 2017-12-05 17:44:39

End at: 2017-12-05 17:45:09

```
# Below is generated by plot.py at 2017-12-05 19:56:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.19 Mbit/s
95th percentile per-packet one-way delay: 67.592 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 161.19 Mbit/s
95th percentile per-packet one-way delay: 67.592 ms
Loss rate: 0.47%
```

Run 9: Report of TCP BBR — Data Link



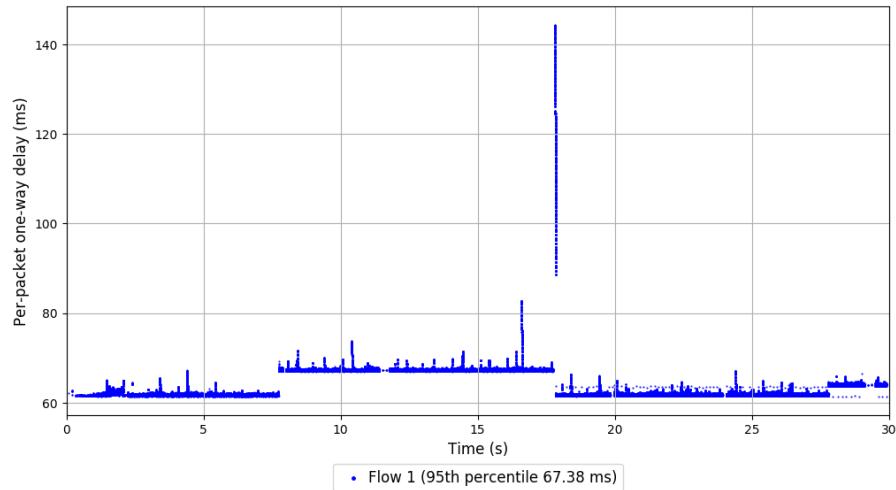
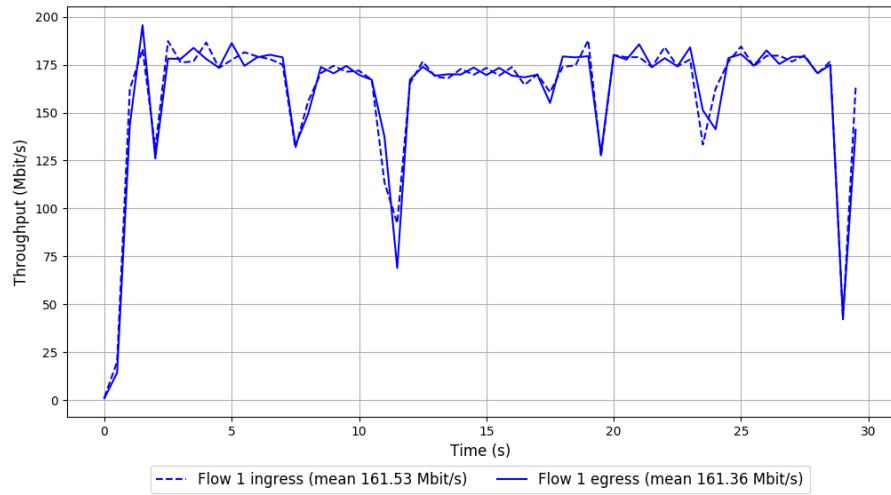
Run 10: Statistics of TCP BBR

Start at: 2017-12-05 17:54:49

End at: 2017-12-05 17:55:19

```
# Below is generated by plot.py at 2017-12-05 19:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.36 Mbit/s
95th percentile per-packet one-way delay: 67.384 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 161.36 Mbit/s
95th percentile per-packet one-way delay: 67.384 ms
Loss rate: 0.48%
```

Run 10: Report of TCP BBR — Data Link

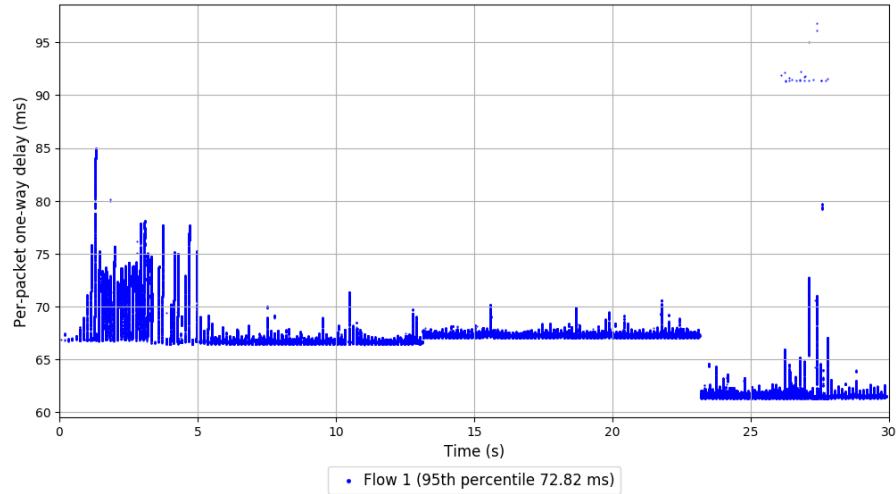
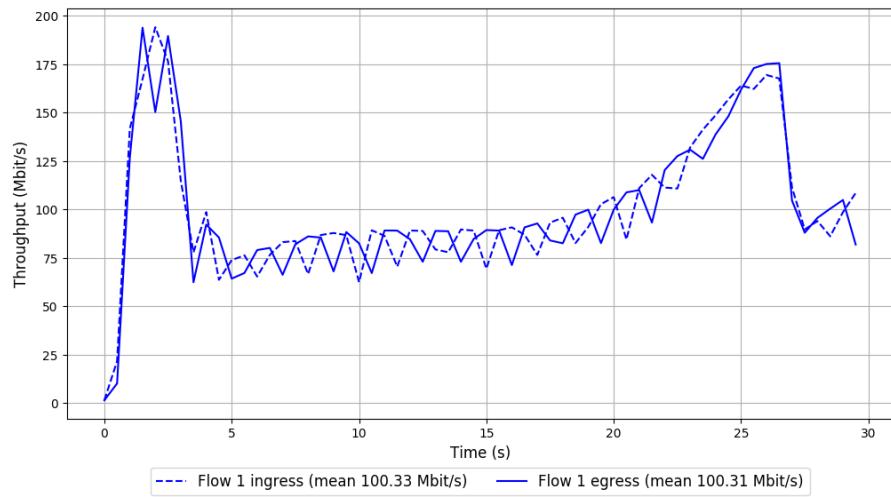


```
Run 1: Statistics of TCP Cubic

Start at: 2017-12-05 16:23:24
End at: 2017-12-05 16:23:54

# Below is generated by plot.py at 2017-12-05 19:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 100.31 Mbit/s
95th percentile per-packet one-way delay: 72.821 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 100.31 Mbit/s
95th percentile per-packet one-way delay: 72.821 ms
Loss rate: 0.46%
```

Run 1: Report of TCP Cubic — Data Link



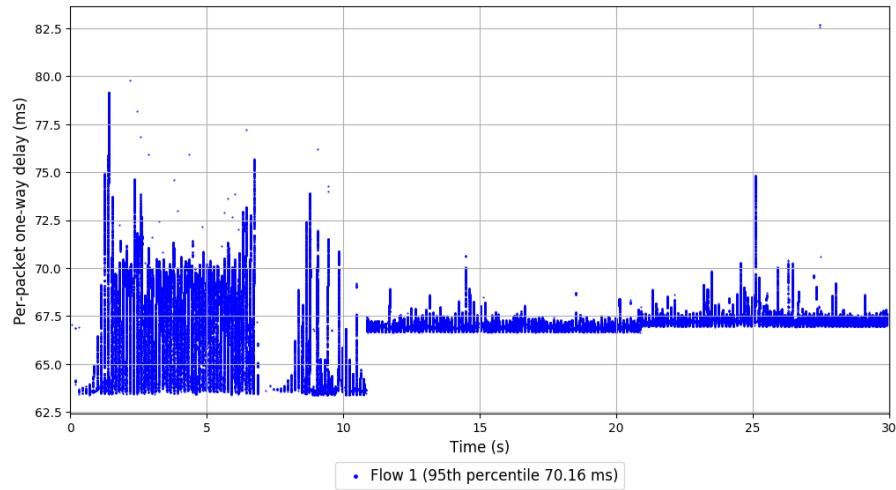
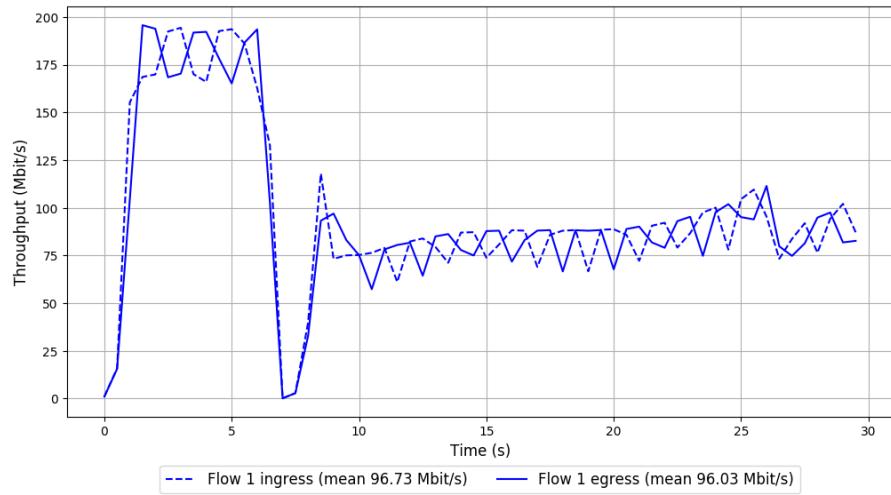
Run 2: Statistics of TCP Cubic

Start at: 2017-12-05 16:33:36

End at: 2017-12-05 16:34:06

```
# Below is generated by plot.py at 2017-12-05 19:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 70.164 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 96.03 Mbit/s
95th percentile per-packet one-way delay: 70.164 ms
Loss rate: 1.17%
```

Run 2: Report of TCP Cubic — Data Link



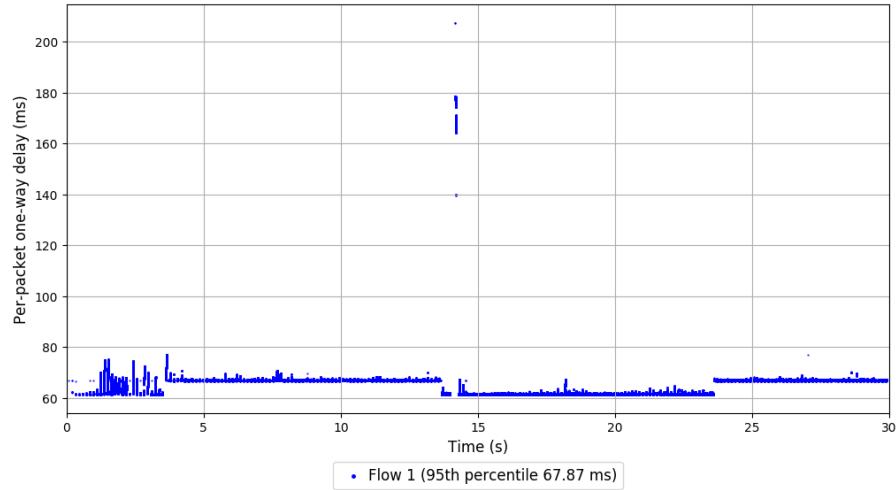
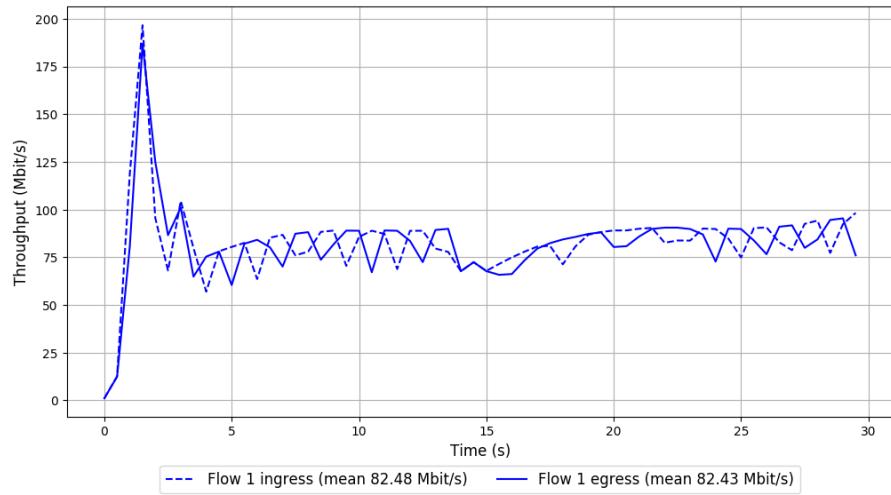
Run 3: Statistics of TCP Cubic

Start at: 2017-12-05 16:43:54

End at: 2017-12-05 16:44:24

```
# Below is generated by plot.py at 2017-12-05 19:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.43 Mbit/s
95th percentile per-packet one-way delay: 67.867 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 82.43 Mbit/s
95th percentile per-packet one-way delay: 67.867 ms
Loss rate: 0.51%
```

Run 3: Report of TCP Cubic — Data Link



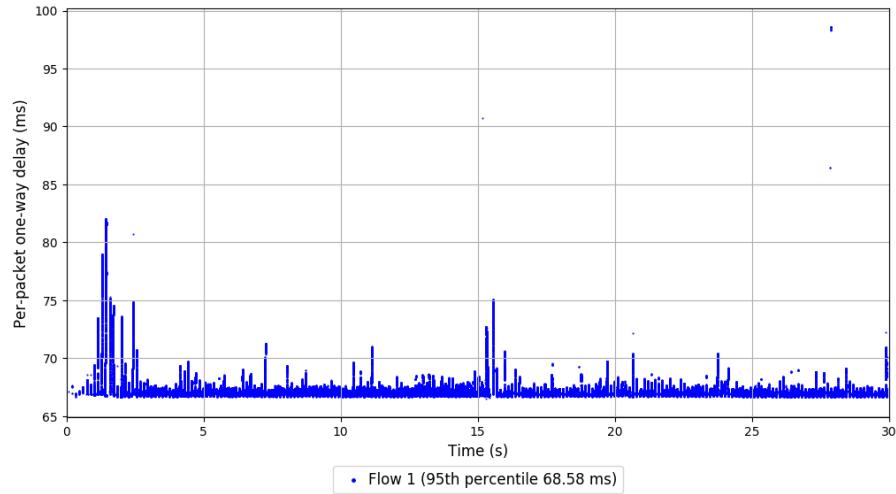
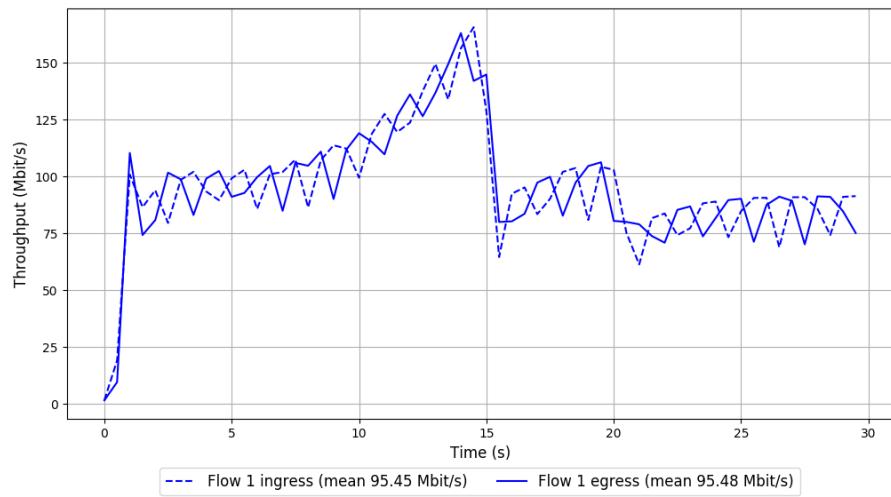
Run 4: Statistics of TCP Cubic

Start at: 2017-12-05 16:54:23

End at: 2017-12-05 16:54:53

```
# Below is generated by plot.py at 2017-12-05 19:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 68.584 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 95.48 Mbit/s
95th percentile per-packet one-way delay: 68.584 ms
Loss rate: 0.41%
```

Run 4: Report of TCP Cubic — Data Link



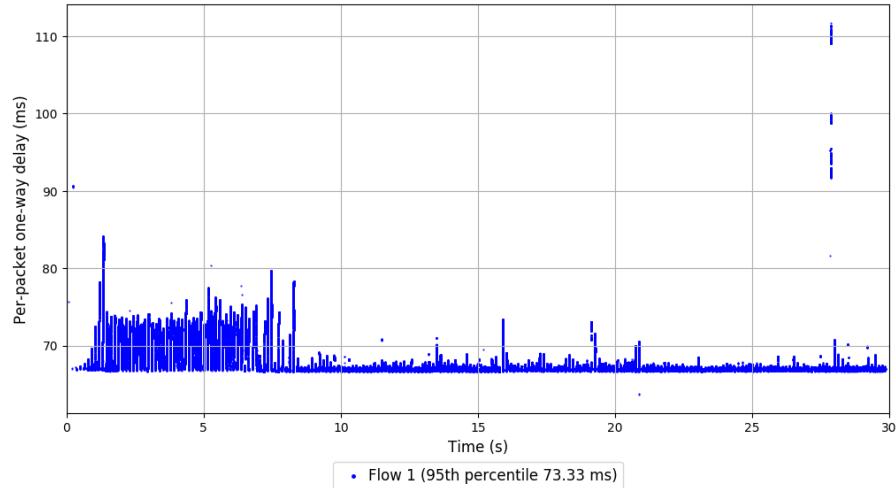
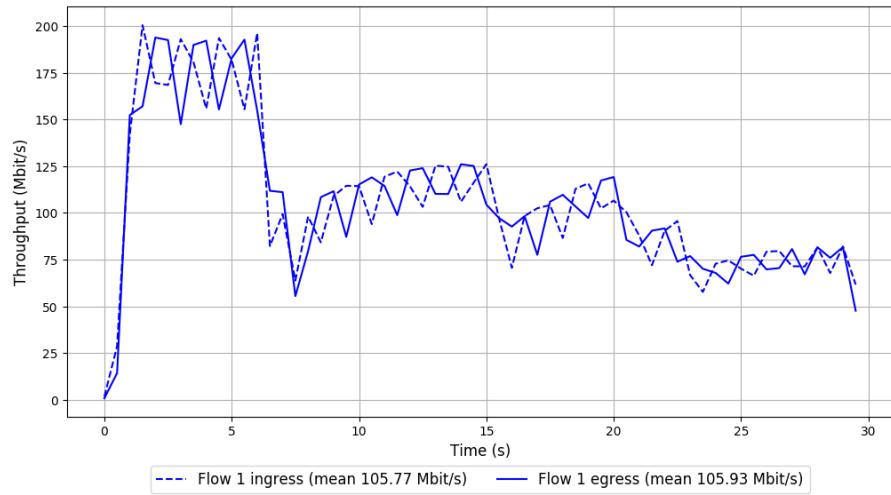
Run 5: Statistics of TCP Cubic

Start at: 2017-12-05 17:04:40

End at: 2017-12-05 17:05:10

```
# Below is generated by plot.py at 2017-12-05 19:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 105.93 Mbit/s
95th percentile per-packet one-way delay: 73.332 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 105.93 Mbit/s
95th percentile per-packet one-way delay: 73.332 ms
Loss rate: 0.33%
```

Run 5: Report of TCP Cubic — Data Link



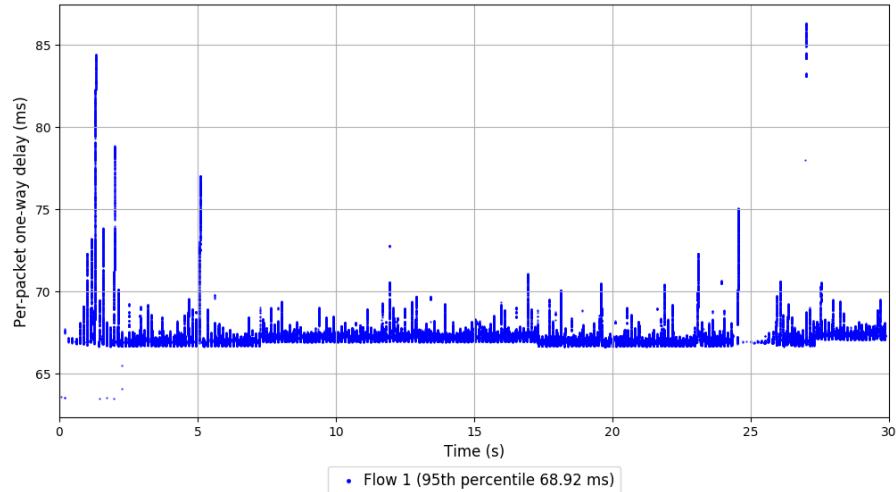
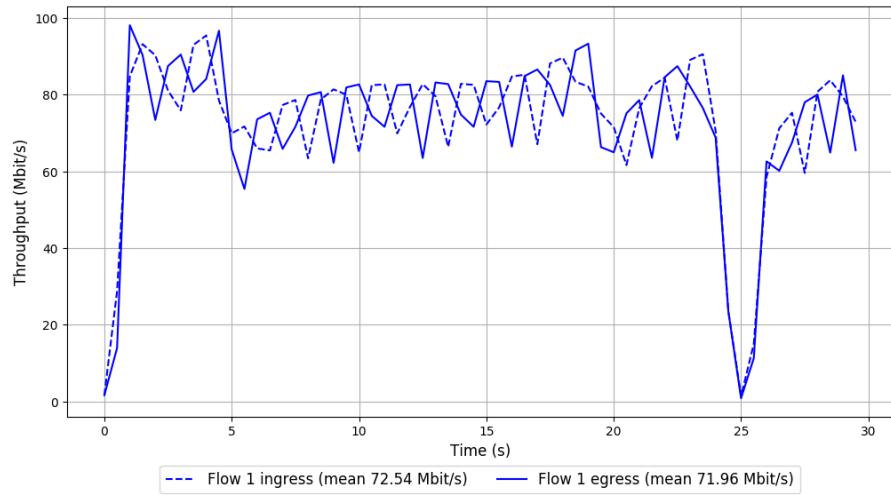
Run 6: Statistics of TCP Cubic

Start at: 2017-12-05 17:15:10

End at: 2017-12-05 17:15:40

```
# Below is generated by plot.py at 2017-12-05 19:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 68.925 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 71.96 Mbit/s
95th percentile per-packet one-way delay: 68.925 ms
Loss rate: 1.23%
```

Run 6: Report of TCP Cubic — Data Link



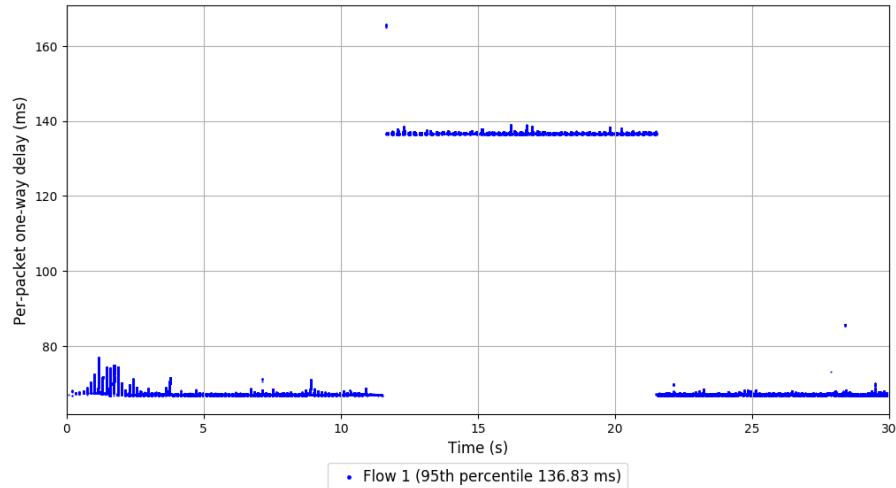
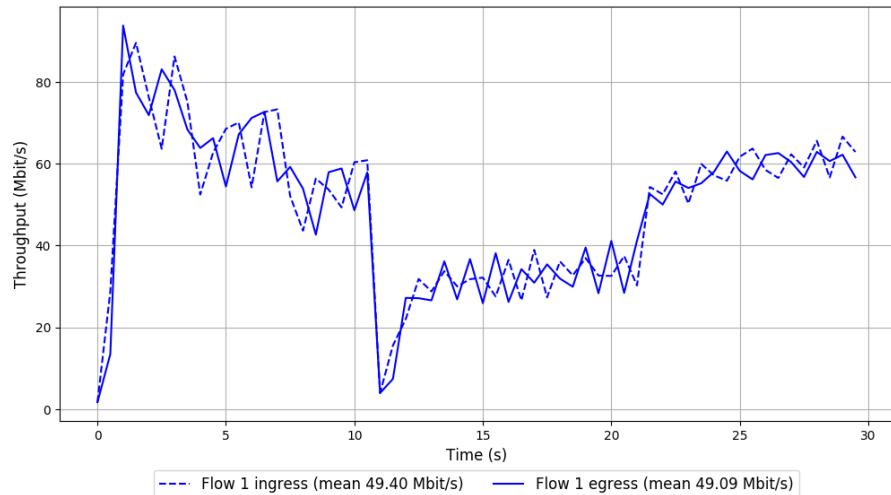
Run 7: Statistics of TCP Cubic

Start at: 2017-12-05 17:25:26

End at: 2017-12-05 17:25:56

```
# Below is generated by plot.py at 2017-12-05 19:56:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.09 Mbit/s
95th percentile per-packet one-way delay: 136.827 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 49.09 Mbit/s
95th percentile per-packet one-way delay: 136.827 ms
Loss rate: 1.08%
```

Run 7: Report of TCP Cubic — Data Link



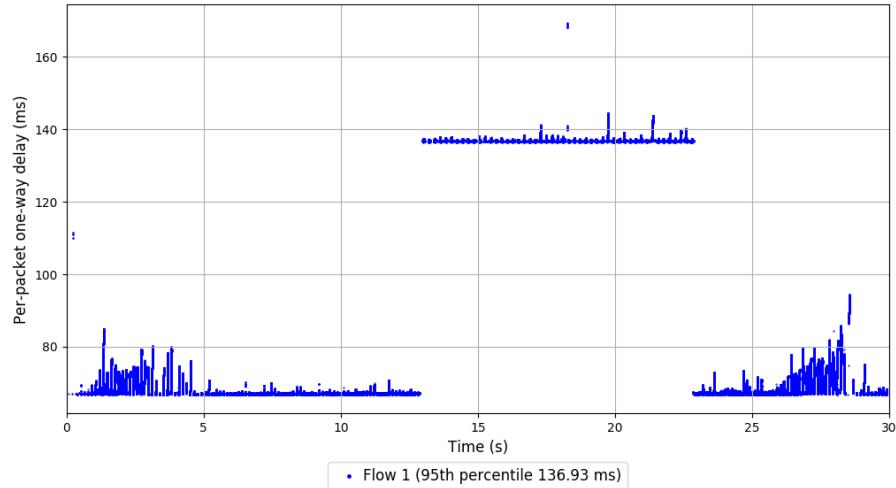
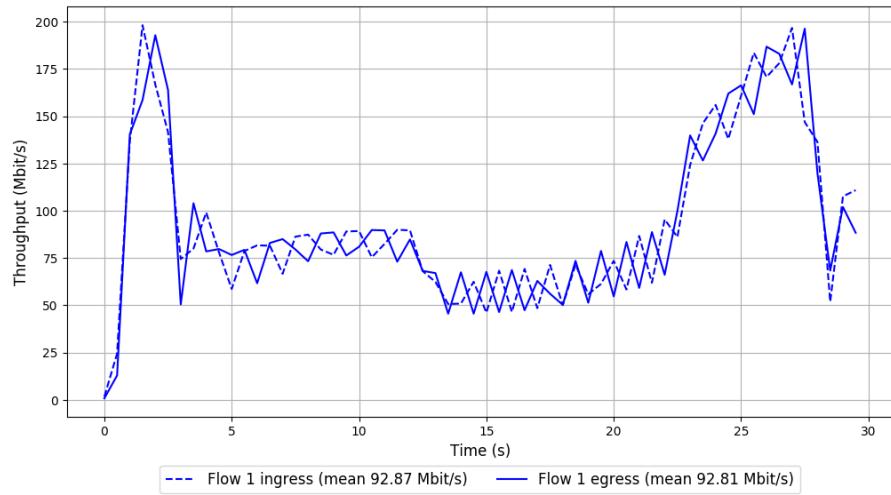
Run 8: Statistics of TCP Cubic

Start at: 2017-12-05 17:35:54

End at: 2017-12-05 17:36:24

```
# Below is generated by plot.py at 2017-12-05 19:56:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.81 Mbit/s
95th percentile per-packet one-way delay: 136.931 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 92.81 Mbit/s
95th percentile per-packet one-way delay: 136.931 ms
Loss rate: 0.51%
```

Run 8: Report of TCP Cubic — Data Link



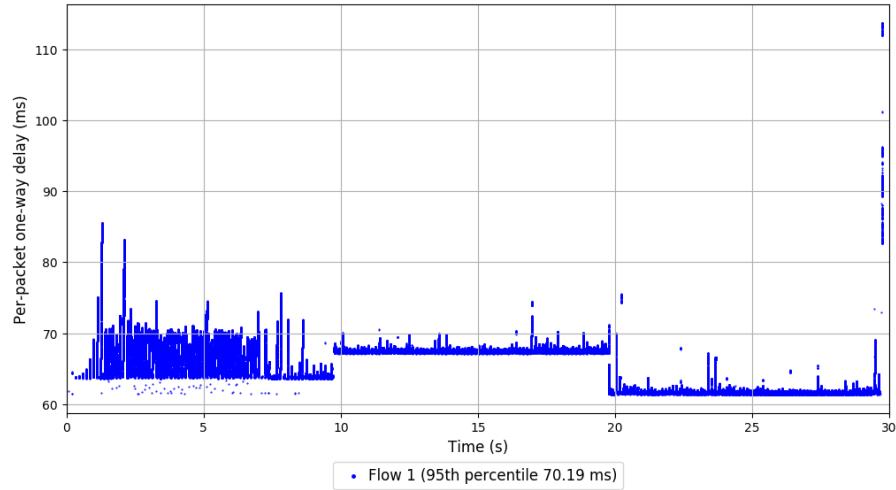
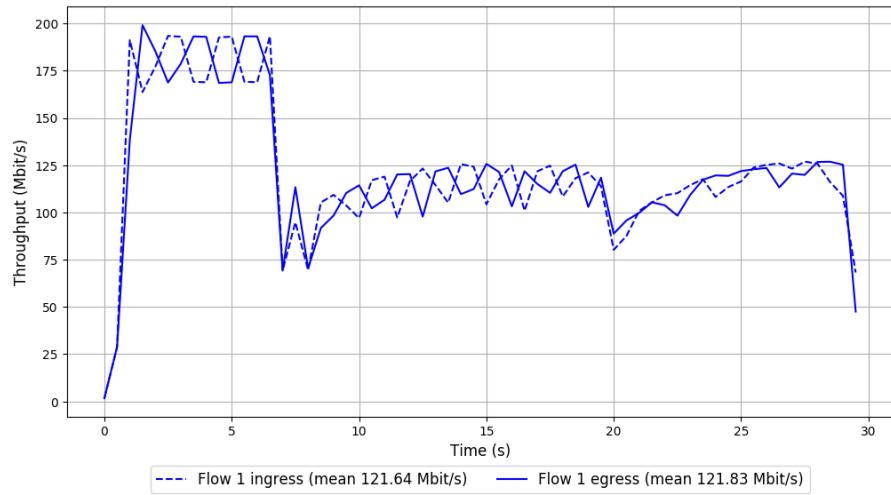
Run 9: Statistics of TCP Cubic

Start at: 2017-12-05 17:46:47

End at: 2017-12-05 17:47:17

```
# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 121.83 Mbit/s
95th percentile per-packet one-way delay: 70.194 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 121.83 Mbit/s
95th percentile per-packet one-way delay: 70.194 ms
Loss rate: 0.29%
```

Run 9: Report of TCP Cubic — Data Link



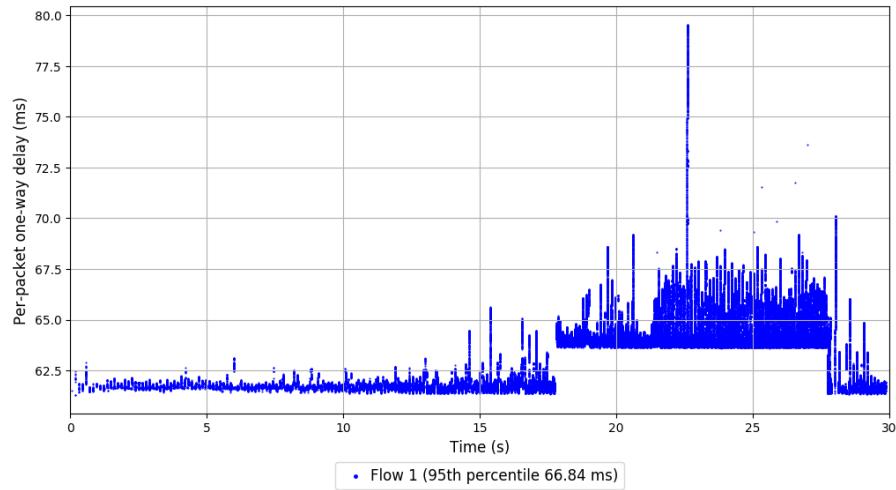
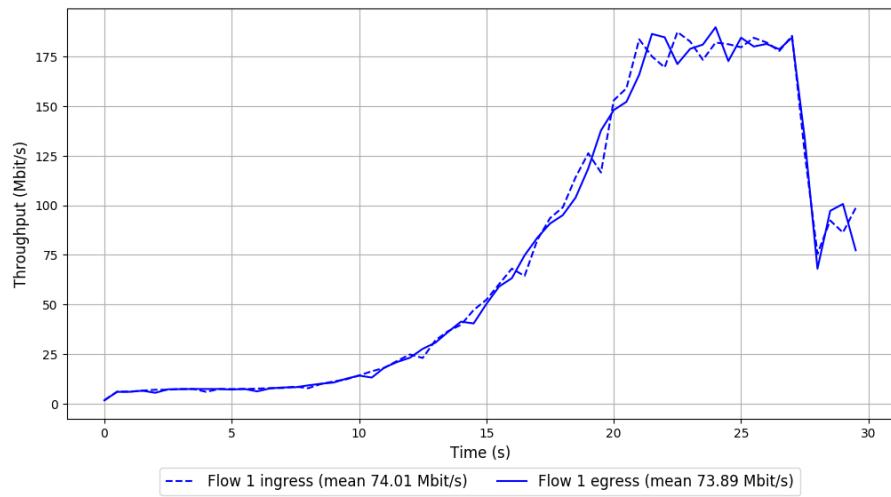
Run 10: Statistics of TCP Cubic

Start at: 2017-12-05 17:56:59

End at: 2017-12-05 17:57:29

```
# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.89 Mbit/s
95th percentile per-packet one-way delay: 66.844 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 73.89 Mbit/s
95th percentile per-packet one-way delay: 66.844 ms
Loss rate: 0.59%
```

Run 10: Report of TCP Cubic — Data Link

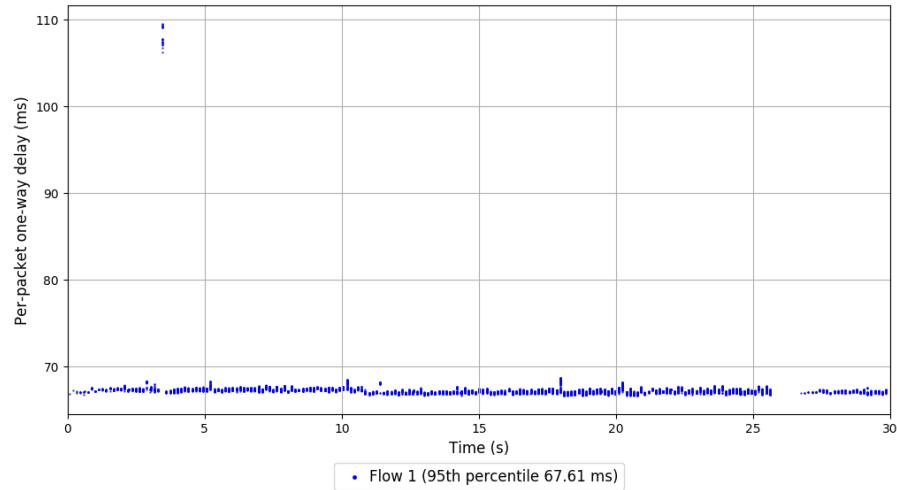
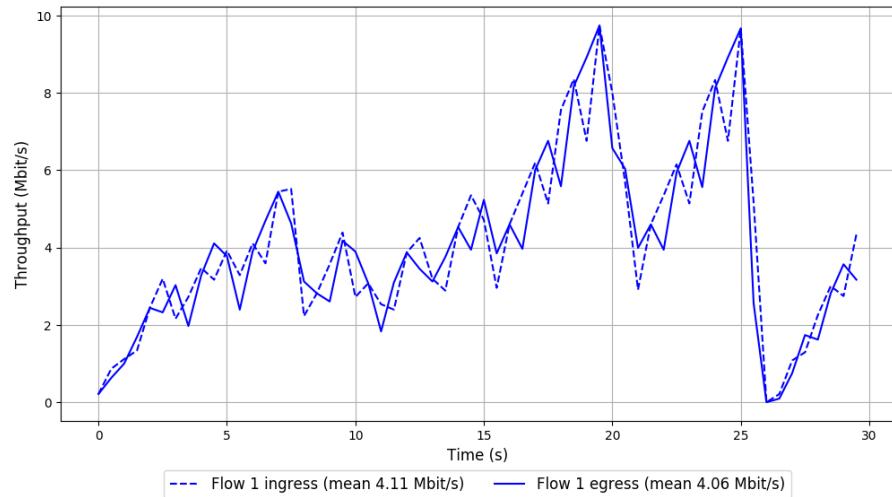


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-05 16:19:06
End at: 2017-12-05 16:19:36

# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 67.606 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 4.06 Mbit/s
95th percentile per-packet one-way delay: 67.606 ms
Loss rate: 1.59%
```

Run 1: Report of LEDBAT — Data Link



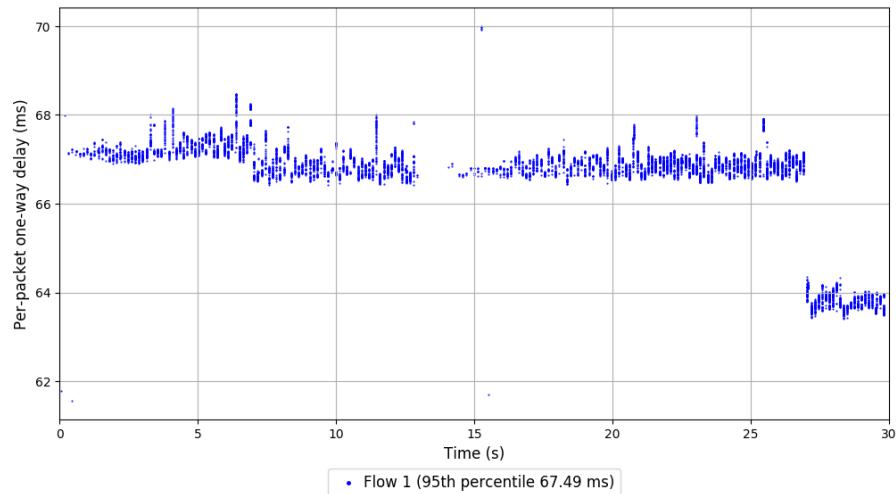
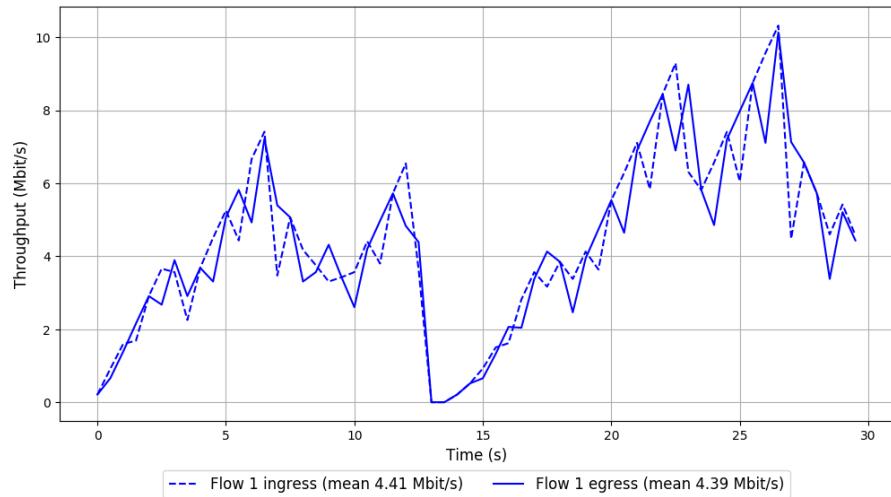
Run 2: Statistics of LEDBAT

Start at: 2017-12-05 16:29:20

End at: 2017-12-05 16:29:50

```
# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 67.494 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 4.39 Mbit/s
95th percentile per-packet one-way delay: 67.494 ms
Loss rate: 0.98%
```

Run 2: Report of LEDBAT — Data Link

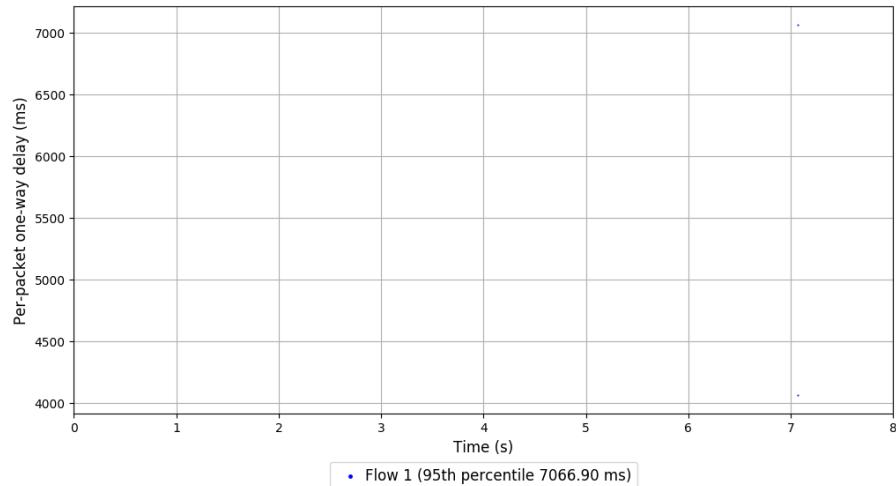
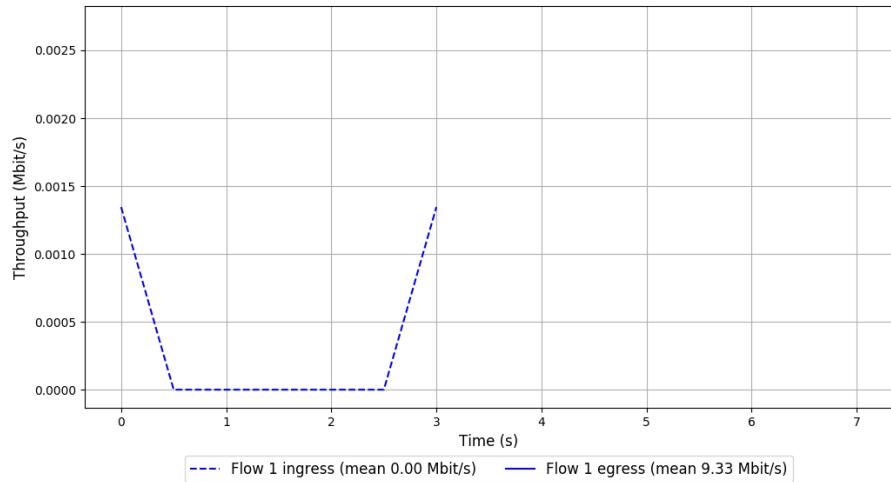


Run 3: Statistics of LEDBAT

Start at: 2017-12-05 16:39:38

End at: 2017-12-05 16:40:08

Run 3: Report of LEDBAT — Data Link



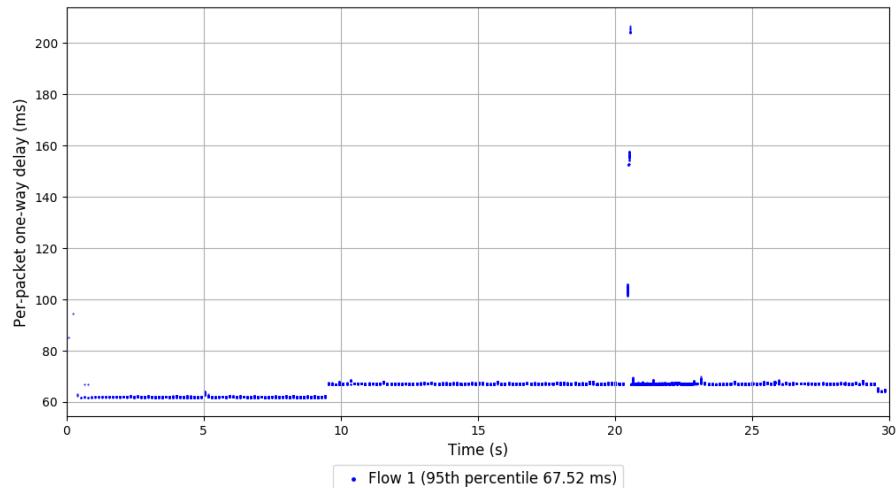
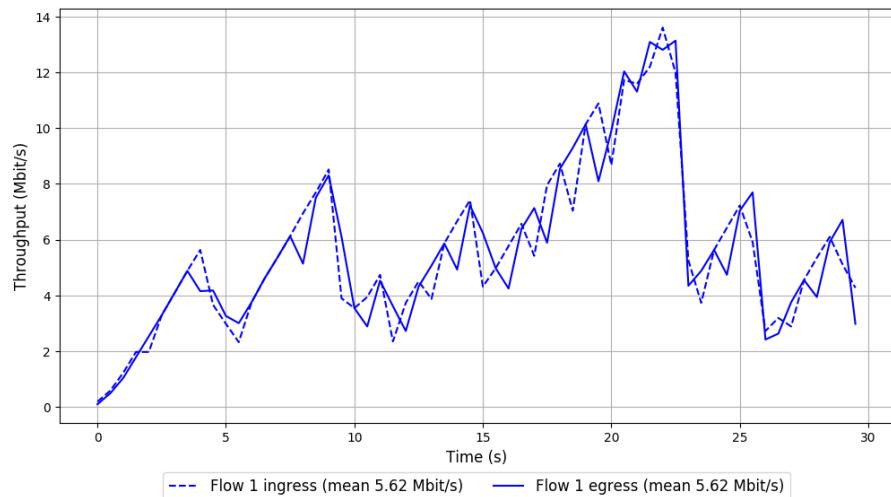
Run 4: Statistics of LEDBAT

Start at: 2017-12-05 16:50:08

End at: 2017-12-05 16:50:38

```
# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 67.520 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 67.520 ms
Loss rate: 0.43%
```

Run 4: Report of LEDBAT — Data Link



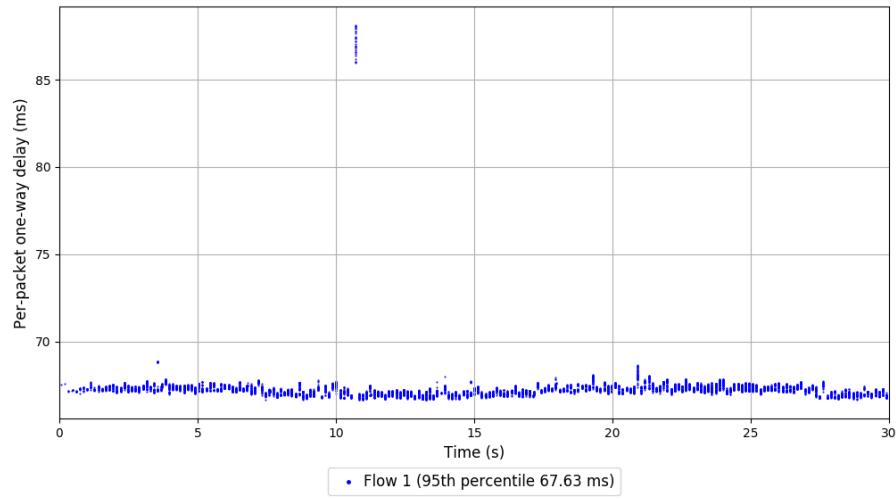
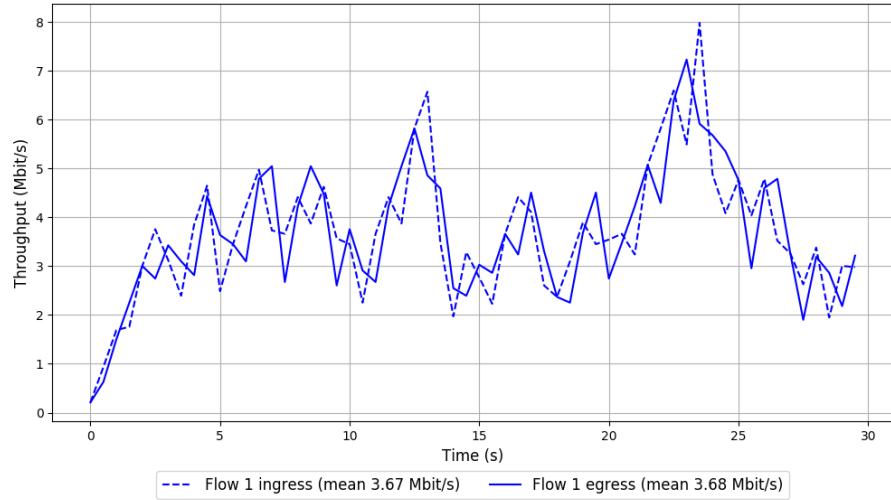
Run 5: Statistics of LEDBAT

Start at: 2017-12-05 17:00:30

End at: 2017-12-05 17:01:00

```
# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 67.629 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 67.629 ms
Loss rate: 0.42%
```

Run 5: Report of LEDBAT — Data Link



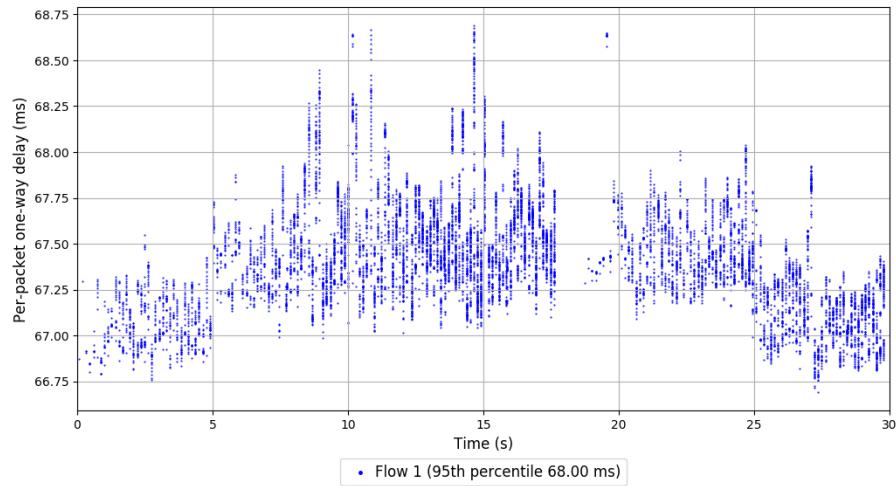
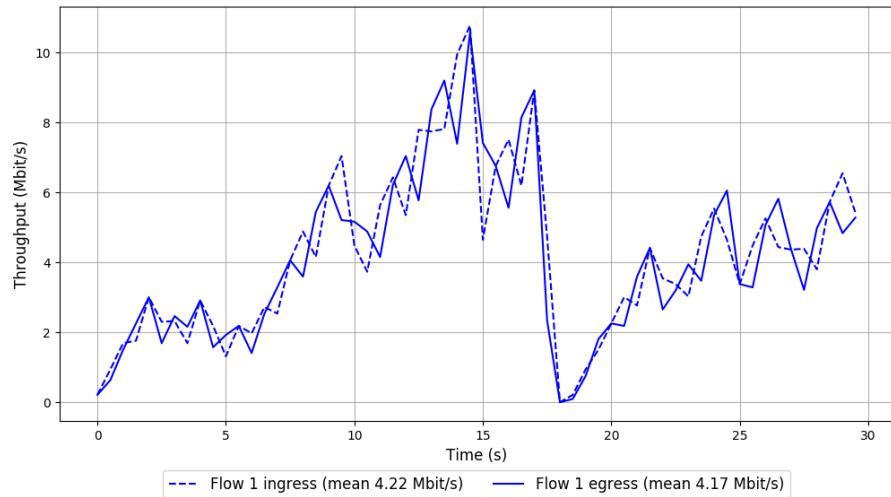
Run 6: Statistics of LEDBAT

Start at: 2017-12-05 17:10:52

End at: 2017-12-05 17:11:22

```
# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 68.005 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 68.005 ms
Loss rate: 1.77%
```

Run 6: Report of LEDBAT — Data Link

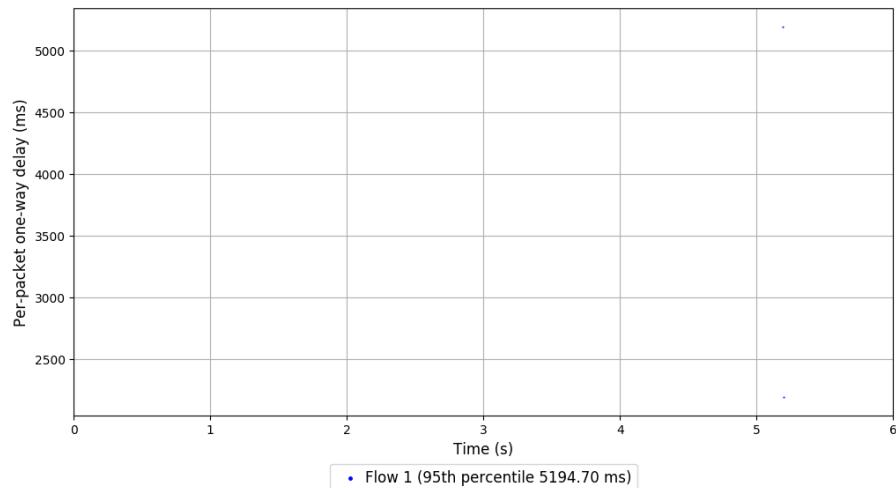
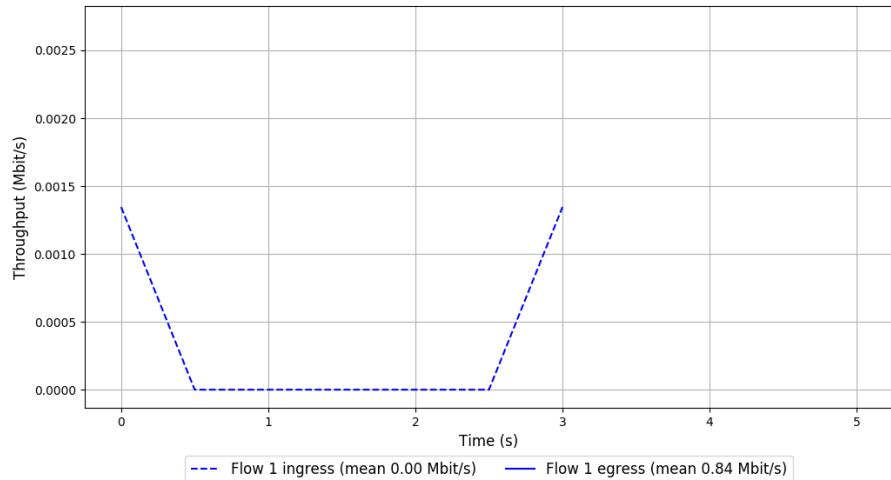


Run 7: Statistics of LEDBAT

Start at: 2017-12-05 17:21:12

End at: 2017-12-05 17:21:42

Run 7: Report of LEDBAT — Data Link



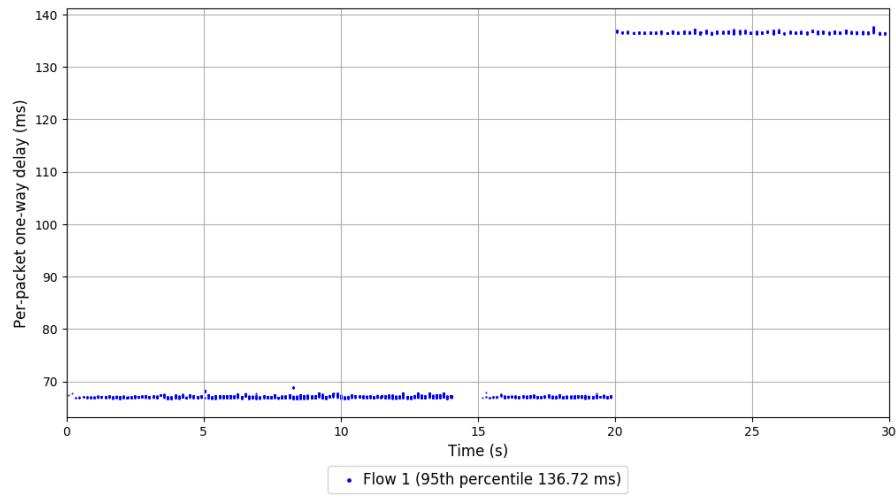
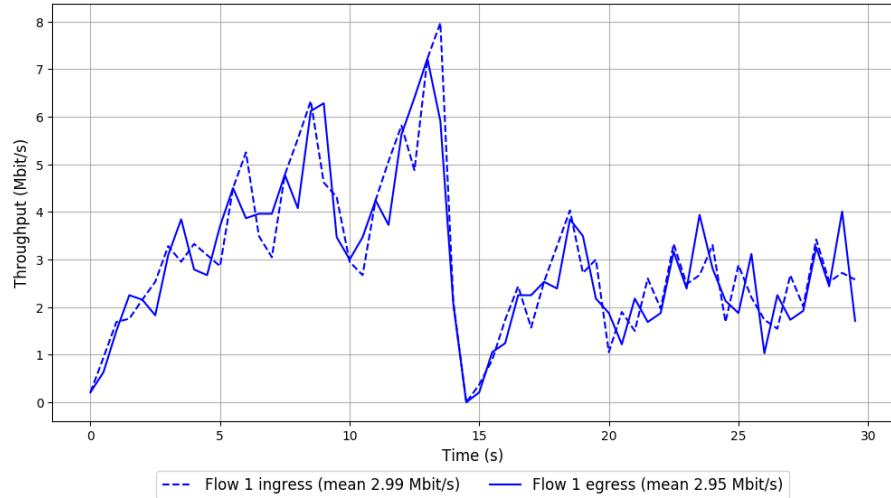
Run 8: Statistics of LEDBAT

Start at: 2017-12-05 17:31:37

End at: 2017-12-05 17:32:07

```
# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 136.723 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 136.723 ms
Loss rate: 1.98%
```

Run 8: Report of LEDBAT — Data Link



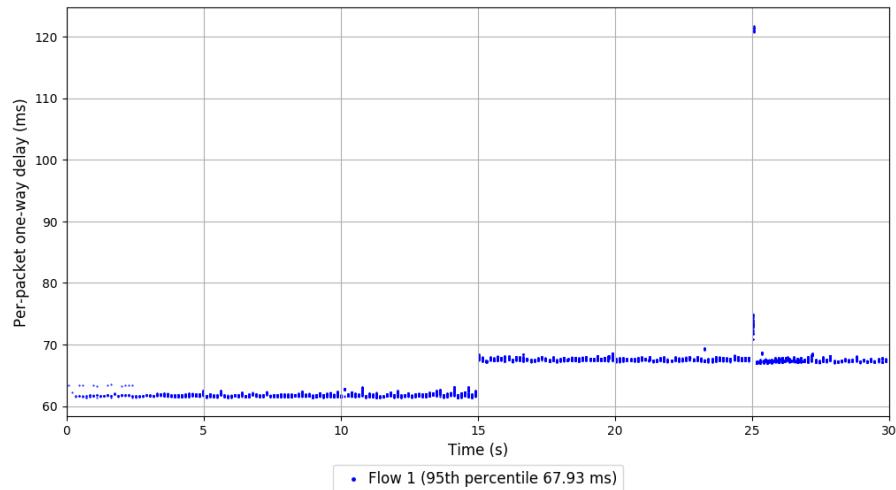
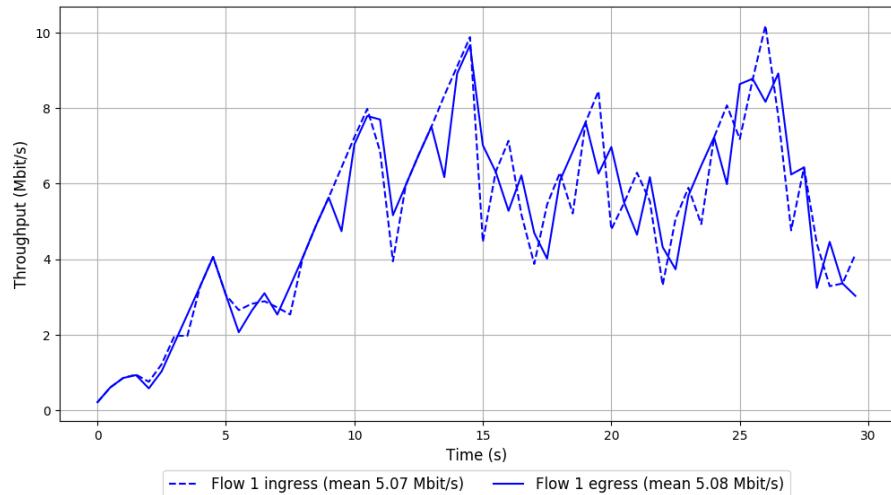
Run 9: Statistics of LEDBAT

Start at: 2017-12-05 17:42:32

End at: 2017-12-05 17:43:02

```
# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 67.929 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 67.929 ms
Loss rate: 0.36%
```

Run 9: Report of LEDBAT — Data Link



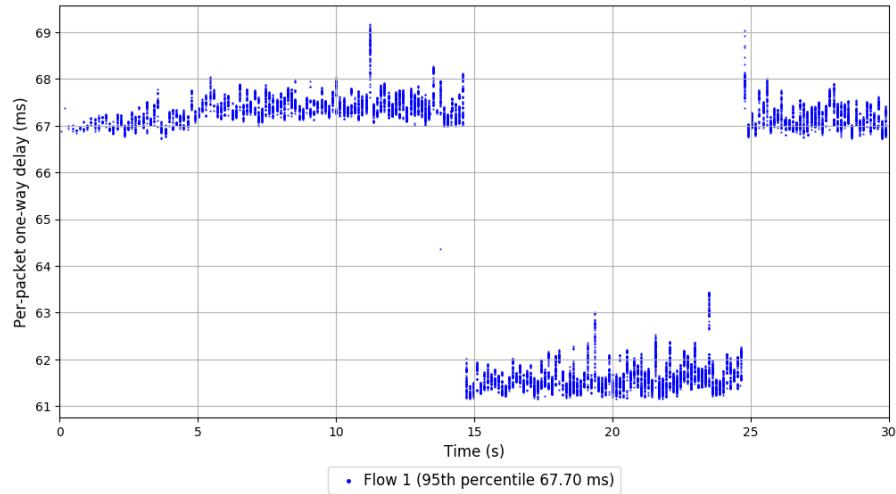
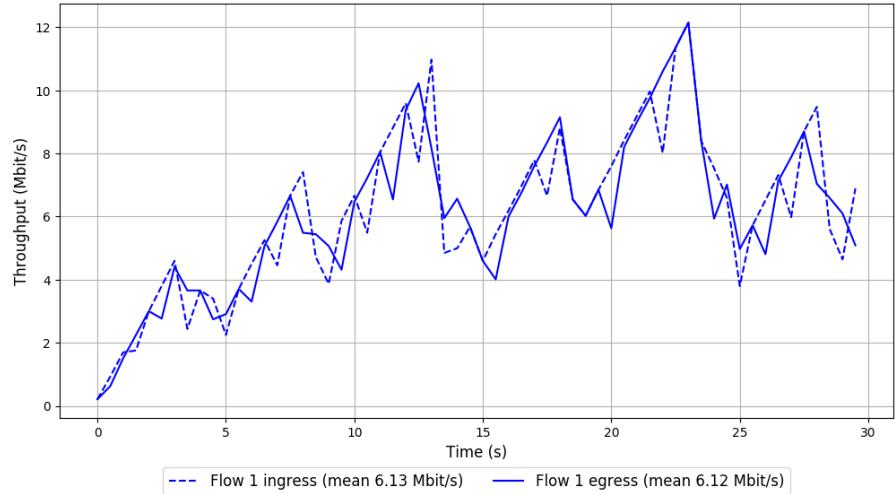
Run 10: Statistics of LEDBAT

Start at: 2017-12-05 17:52:42

End at: 2017-12-05 17:53:12

```
# Below is generated by plot.py at 2017-12-05 19:57:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 67.696 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 6.12 Mbit/s
95th percentile per-packet one-way delay: 67.696 ms
Loss rate: 0.53%
```

Run 10: Report of LEDBAT — Data Link



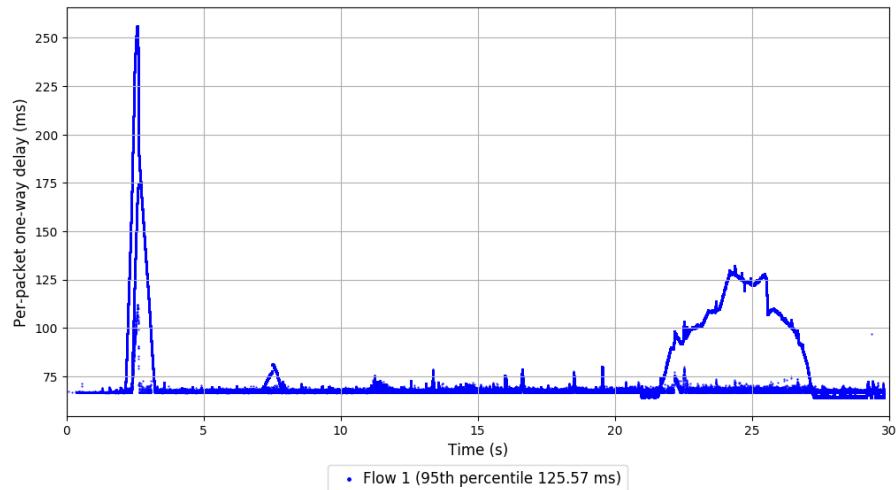
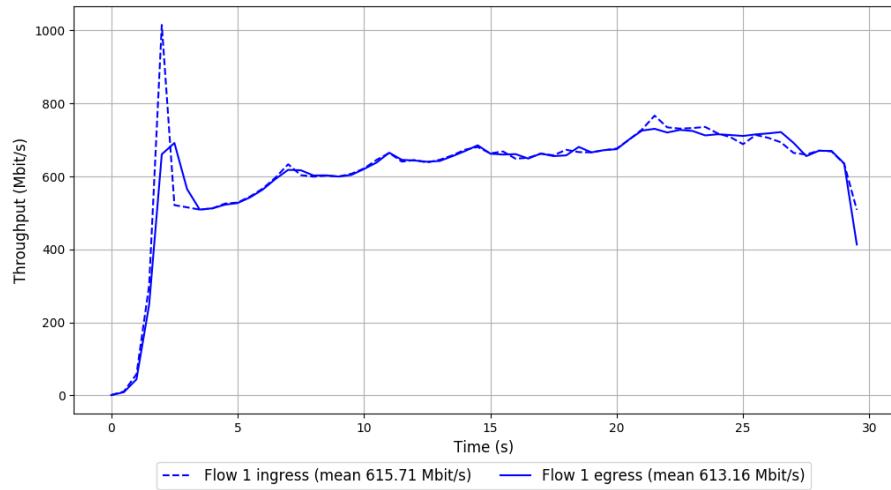
Run 1: Statistics of PCC

Start at: 2017-12-05 16:26:16

End at: 2017-12-05 16:26:46

```
# Below is generated by plot.py at 2017-12-05 20:06:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 613.16 Mbit/s
95th percentile per-packet one-way delay: 125.571 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 613.16 Mbit/s
95th percentile per-packet one-way delay: 125.571 ms
Loss rate: 0.86%
```

Run 1: Report of PCC — Data Link



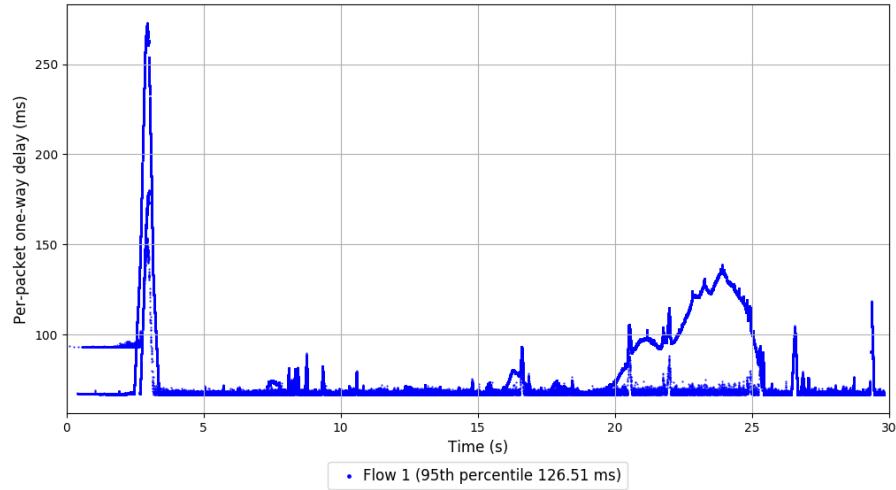
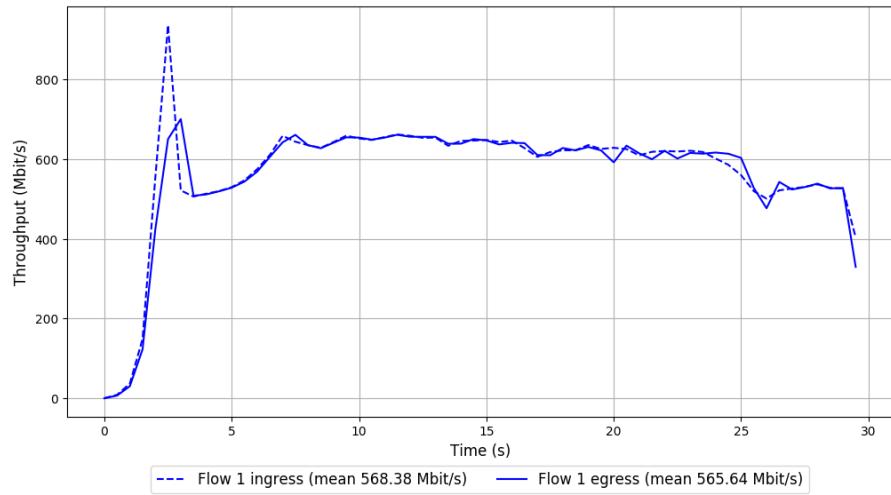
Run 2: Statistics of PCC

Start at: 2017-12-05 16:36:34

End at: 2017-12-05 16:37:04

```
# Below is generated by plot.py at 2017-12-05 20:06:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 565.64 Mbit/s
95th percentile per-packet one-way delay: 126.509 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 565.64 Mbit/s
95th percentile per-packet one-way delay: 126.509 ms
Loss rate: 1.02%
```

Run 2: Report of PCC — Data Link



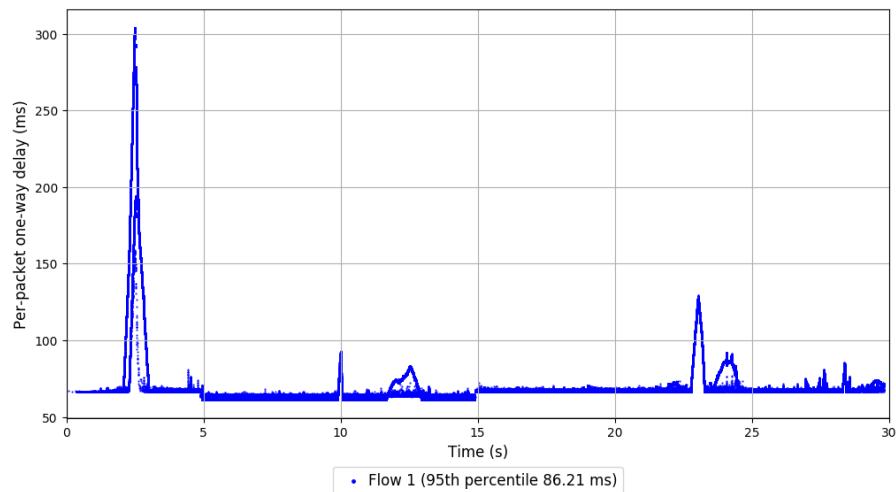
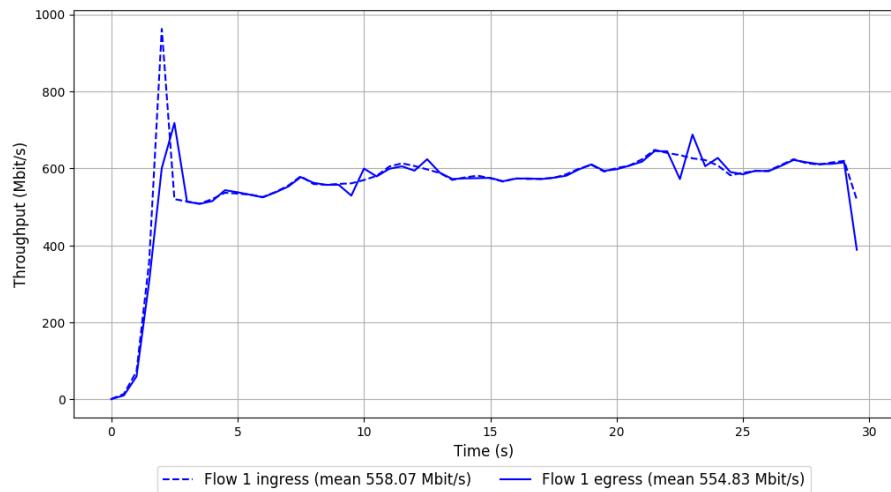
Run 3: Statistics of PCC

Start at: 2017-12-05 16:47:02

End at: 2017-12-05 16:47:32

```
# Below is generated by plot.py at 2017-12-05 20:06:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 554.83 Mbit/s
95th percentile per-packet one-way delay: 86.211 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 554.83 Mbit/s
95th percentile per-packet one-way delay: 86.211 ms
Loss rate: 1.15%
```

Run 3: Report of PCC — Data Link



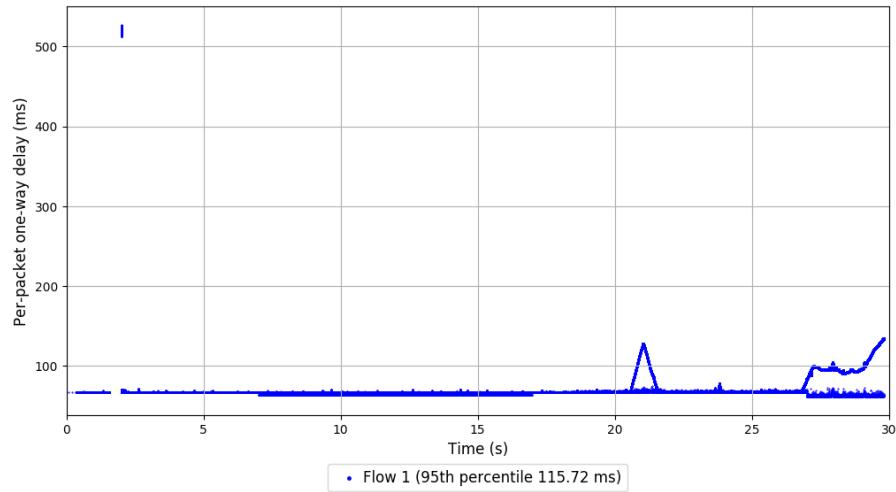
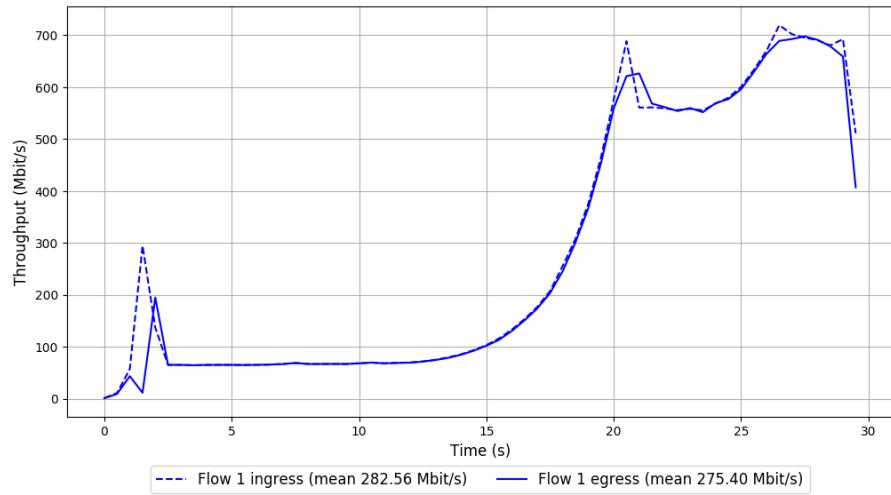
Run 4: Statistics of PCC

Start at: 2017-12-05 16:57:20

End at: 2017-12-05 16:57:50

```
# Below is generated by plot.py at 2017-12-05 20:06:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.40 Mbit/s
95th percentile per-packet one-way delay: 115.720 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 275.40 Mbit/s
95th percentile per-packet one-way delay: 115.720 ms
Loss rate: 2.97%
```

Run 4: Report of PCC — Data Link



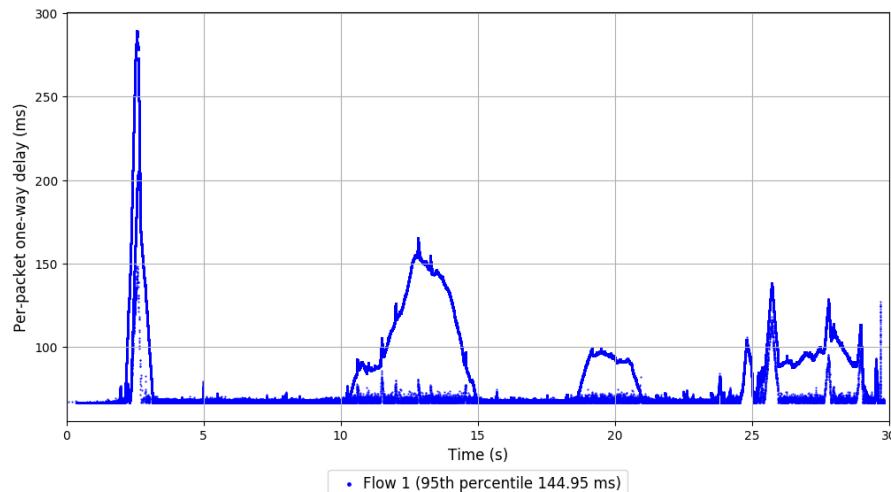
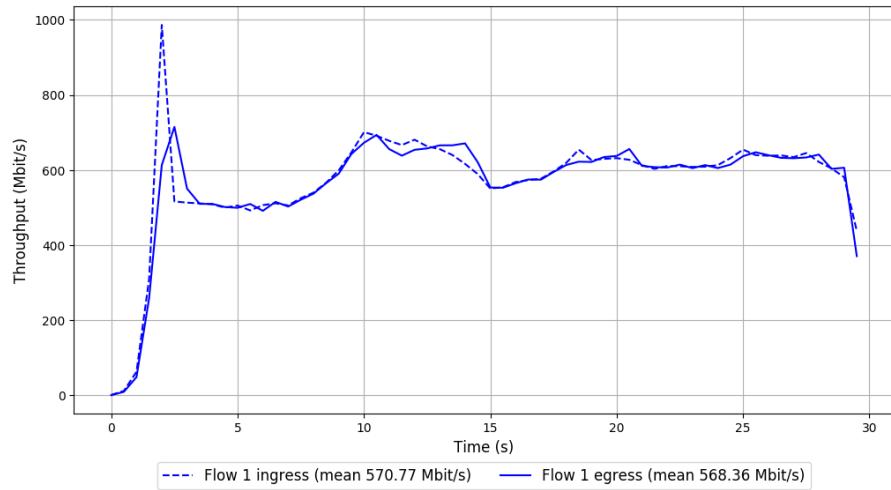
Run 5: Statistics of PCC

Start at: 2017-12-05 17:07:37

End at: 2017-12-05 17:08:07

```
# Below is generated by plot.py at 2017-12-05 20:06:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 568.36 Mbit/s
95th percentile per-packet one-way delay: 144.954 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 568.36 Mbit/s
95th percentile per-packet one-way delay: 144.954 ms
Loss rate: 0.87%
```

Run 5: Report of PCC — Data Link



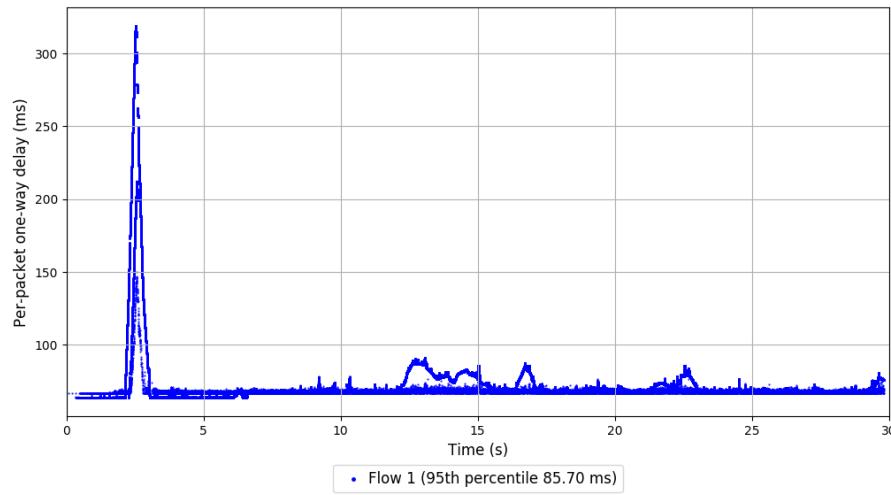
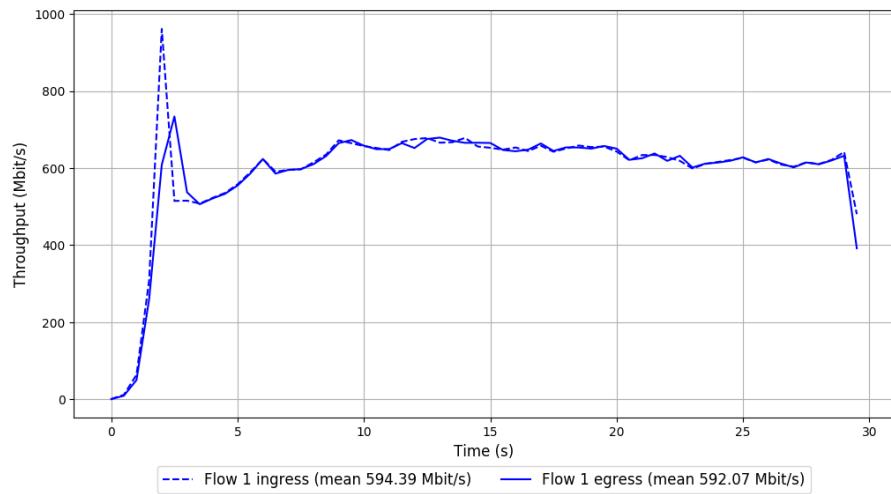
Run 6: Statistics of PCC

Start at: 2017-12-05 17:18:00

End at: 2017-12-05 17:18:30

```
# Below is generated by plot.py at 2017-12-05 20:06:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 592.07 Mbit/s
95th percentile per-packet one-way delay: 85.698 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 592.07 Mbit/s
95th percentile per-packet one-way delay: 85.698 ms
Loss rate: 0.84%
```

Run 6: Report of PCC — Data Link



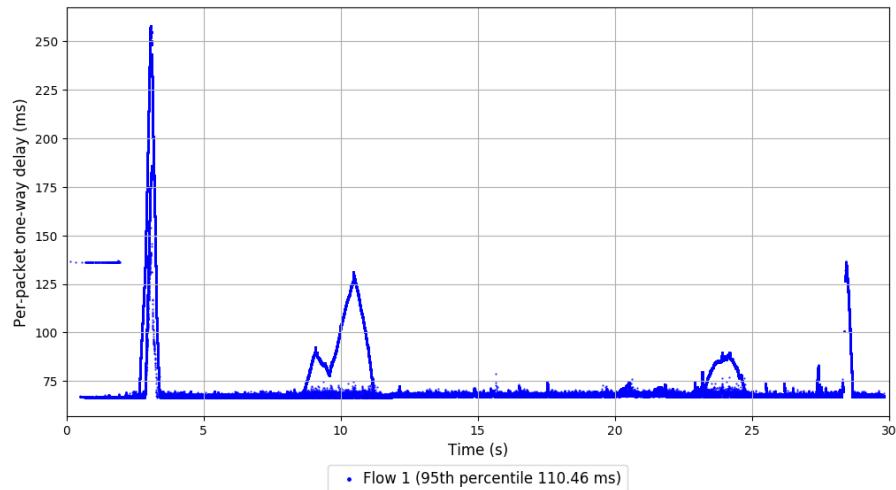
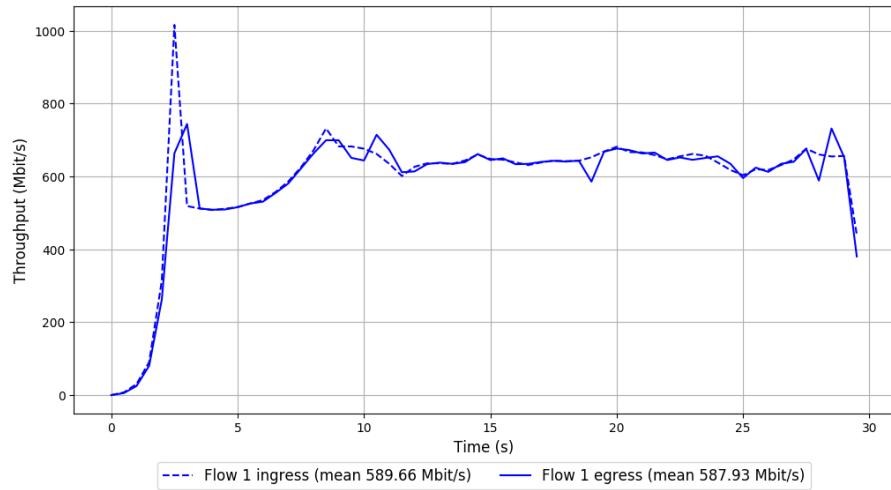
Run 7: Statistics of PCC

Start at: 2017-12-05 17:28:15

End at: 2017-12-05 17:28:45

```
# Below is generated by plot.py at 2017-12-05 20:06:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.93 Mbit/s
95th percentile per-packet one-way delay: 110.460 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 587.93 Mbit/s
95th percentile per-packet one-way delay: 110.460 ms
Loss rate: 0.97%
```

Run 7: Report of PCC — Data Link



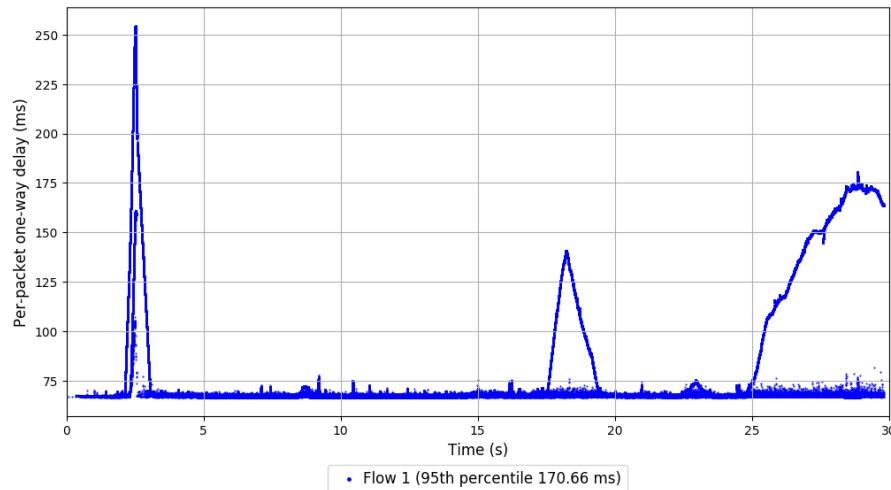
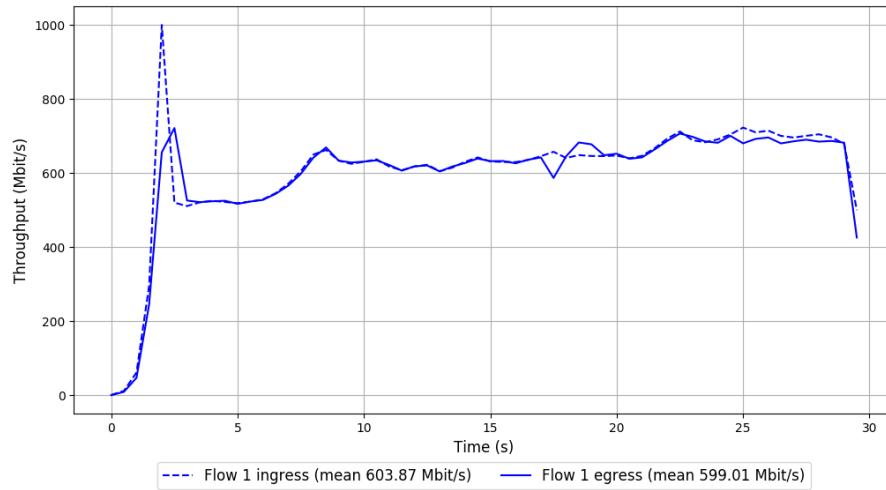
Run 8: Statistics of PCC

Start at: 2017-12-05 17:39:02

End at: 2017-12-05 17:39:32

```
# Below is generated by plot.py at 2017-12-05 20:08:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.01 Mbit/s
95th percentile per-packet one-way delay: 170.660 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 599.01 Mbit/s
95th percentile per-packet one-way delay: 170.660 ms
Loss rate: 1.25%
```

Run 8: Report of PCC — Data Link



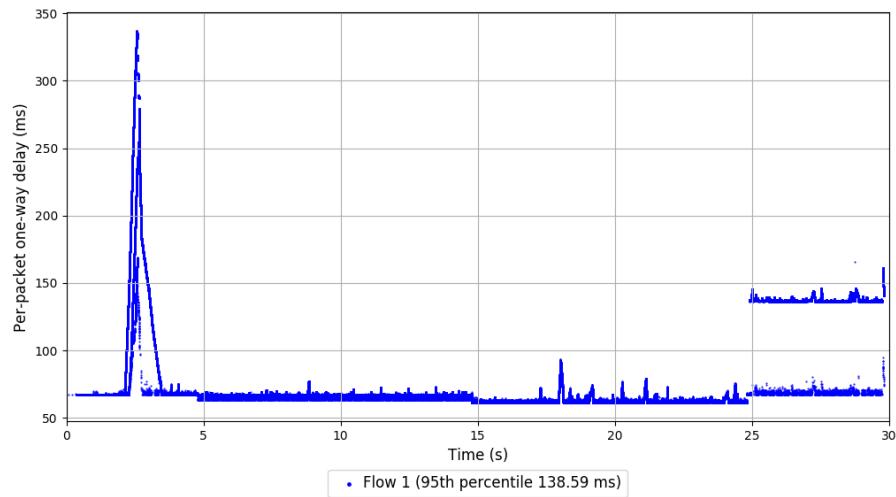
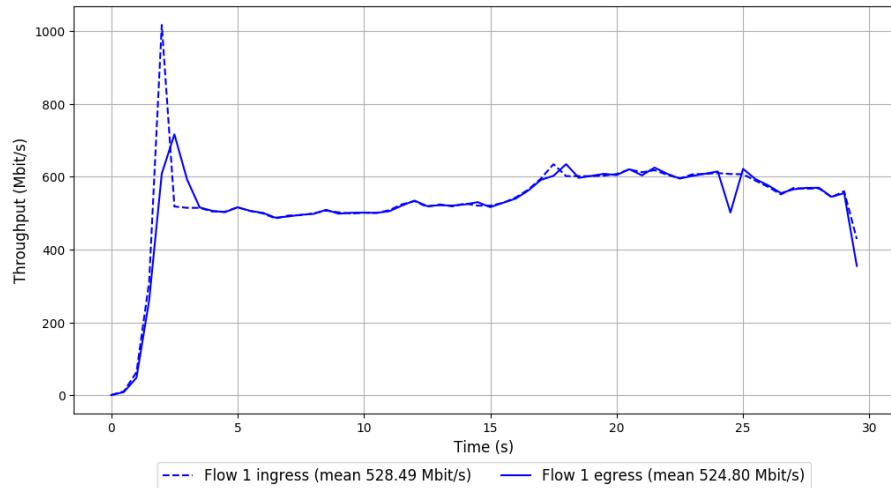
Run 9: Statistics of PCC

Start at: 2017-12-05 17:49:42

End at: 2017-12-05 17:50:12

```
# Below is generated by plot.py at 2017-12-05 20:11:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 524.80 Mbit/s
95th percentile per-packet one-way delay: 138.592 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 524.80 Mbit/s
95th percentile per-packet one-way delay: 138.592 ms
Loss rate: 1.14%
```

Run 9: Report of PCC — Data Link



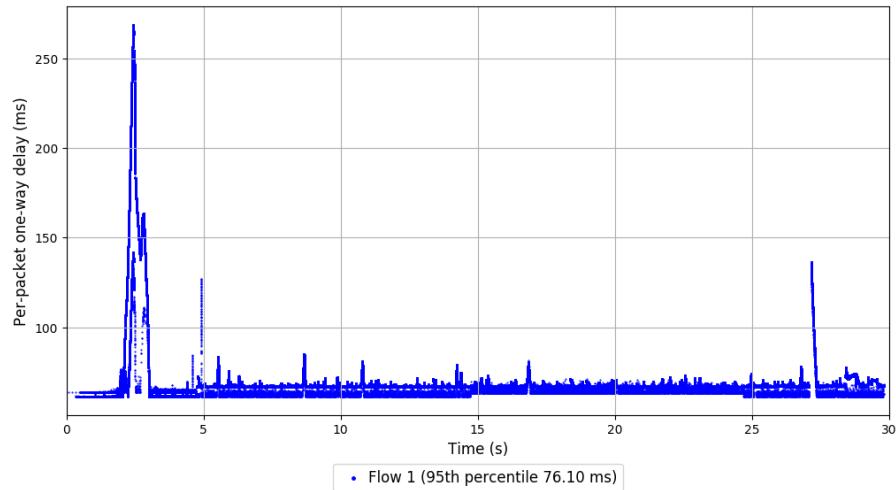
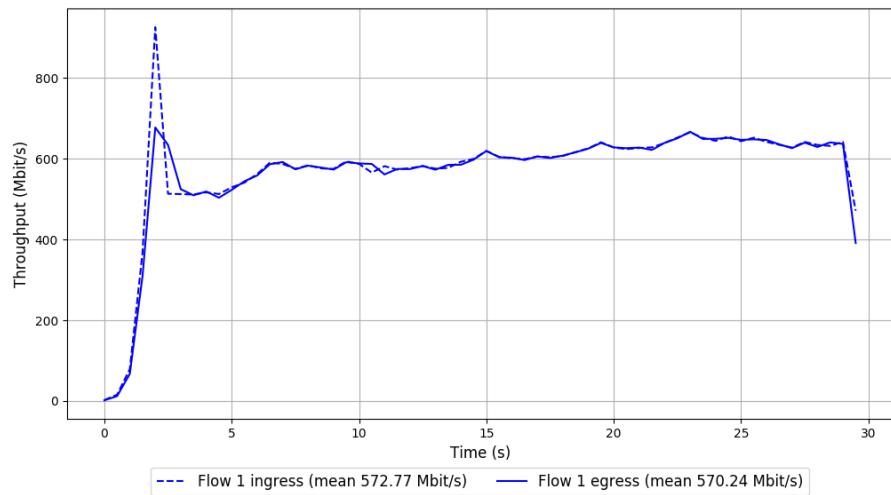
Run 10: Statistics of PCC

Start at: 2017-12-05 18:00:02

End at: 2017-12-05 18:00:32

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 570.24 Mbit/s
95th percentile per-packet one-way delay: 76.101 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 570.24 Mbit/s
95th percentile per-packet one-way delay: 76.101 ms
Loss rate: 0.88%
```

Run 10: Report of PCC — Data Link

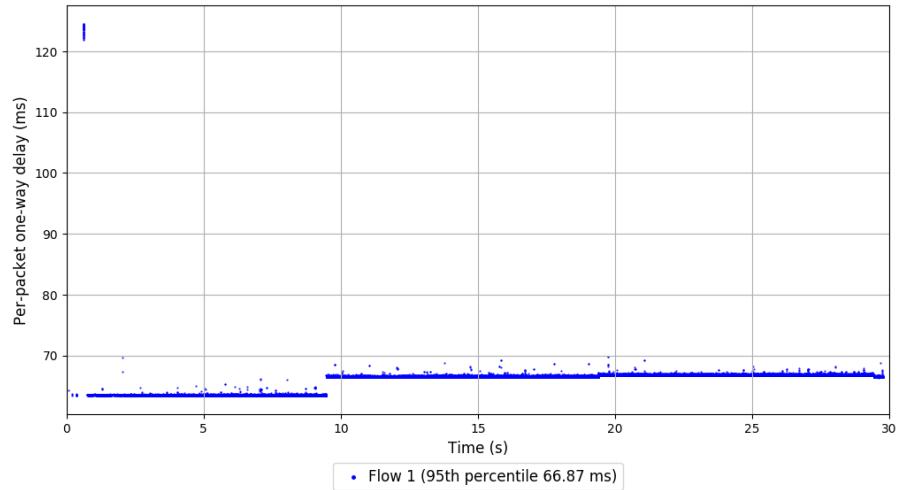
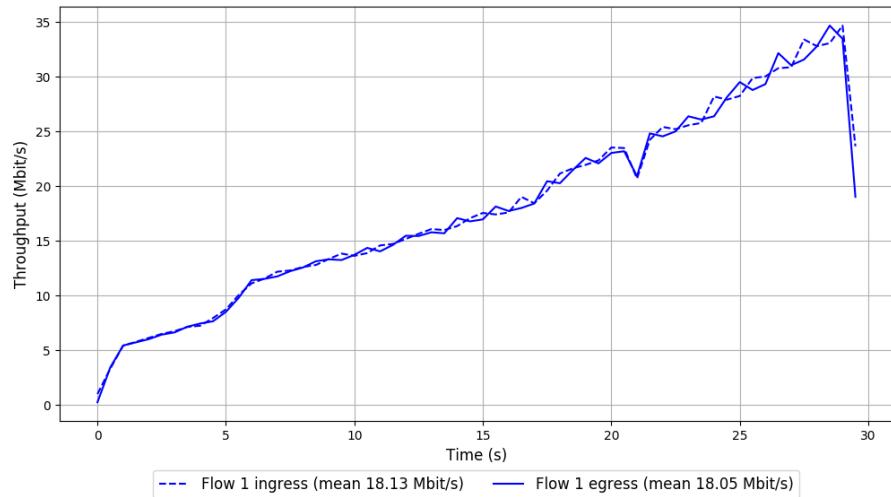


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-05 16:24:08
End at: 2017-12-05 16:24:38

# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.05 Mbit/s
95th percentile per-packet one-way delay: 66.874 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 18.05 Mbit/s
95th percentile per-packet one-way delay: 66.874 ms
Loss rate: 0.86%
```

Run 1: Report of QUIC Cubic — Data Link



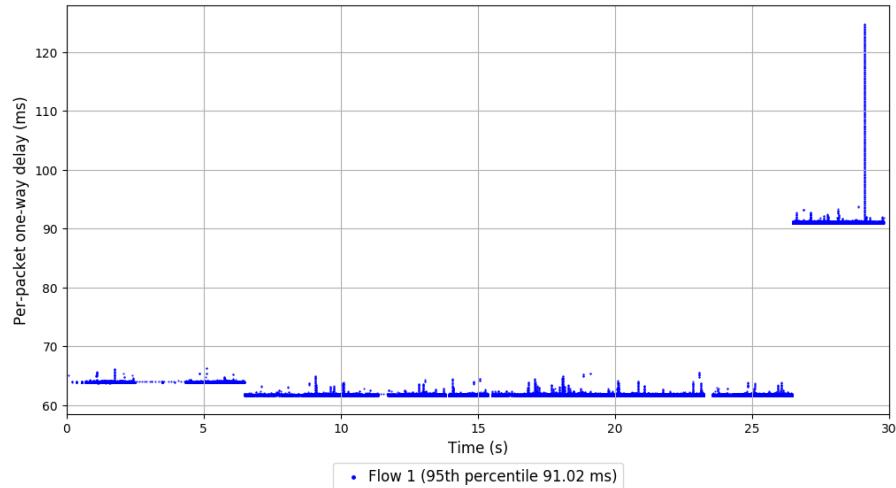
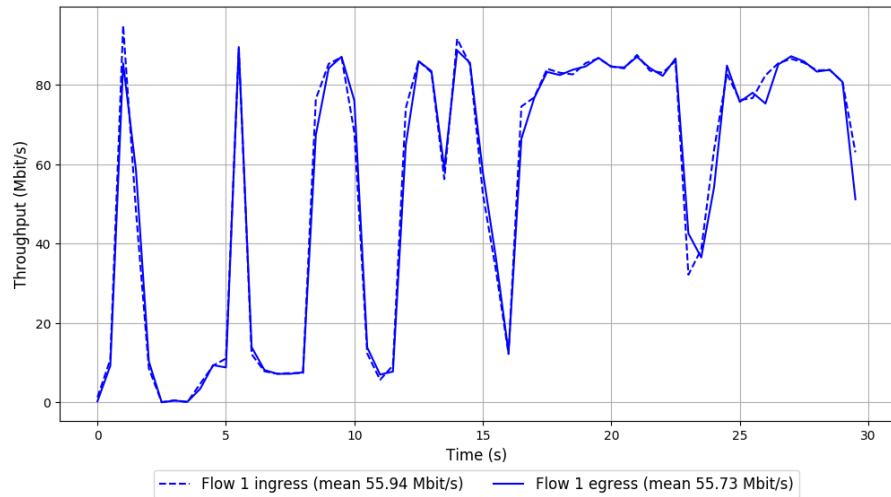
Run 2: Statistics of QUIC Cubic

Start at: 2017-12-05 16:34:20

End at: 2017-12-05 16:34:51

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 91.023 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 55.73 Mbit/s
95th percentile per-packet one-way delay: 91.023 ms
Loss rate: 0.81%
```

Run 2: Report of QUIC Cubic — Data Link



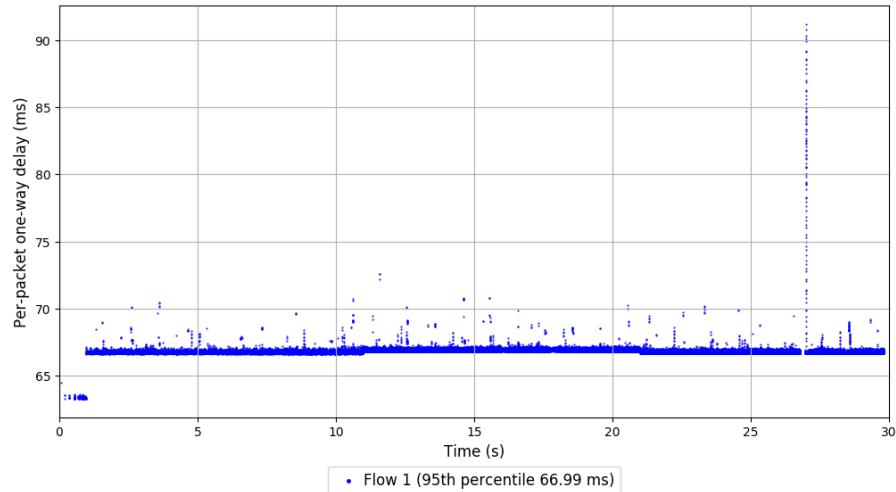
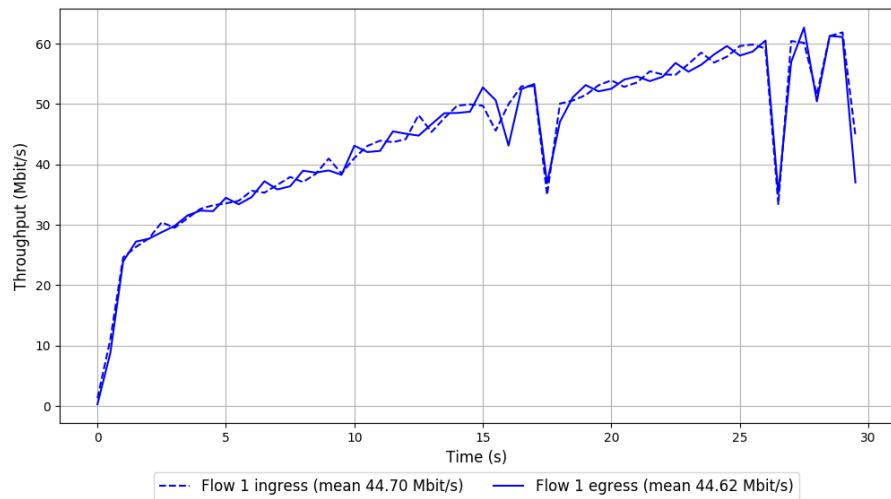
Run 3: Statistics of QUIC Cubic

Start at: 2017-12-05 16:44:36

End at: 2017-12-05 16:45:06

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.62 Mbit/s
95th percentile per-packet one-way delay: 66.991 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 44.62 Mbit/s
95th percentile per-packet one-way delay: 66.991 ms
Loss rate: 0.62%
```

Run 3: Report of QUIC Cubic — Data Link



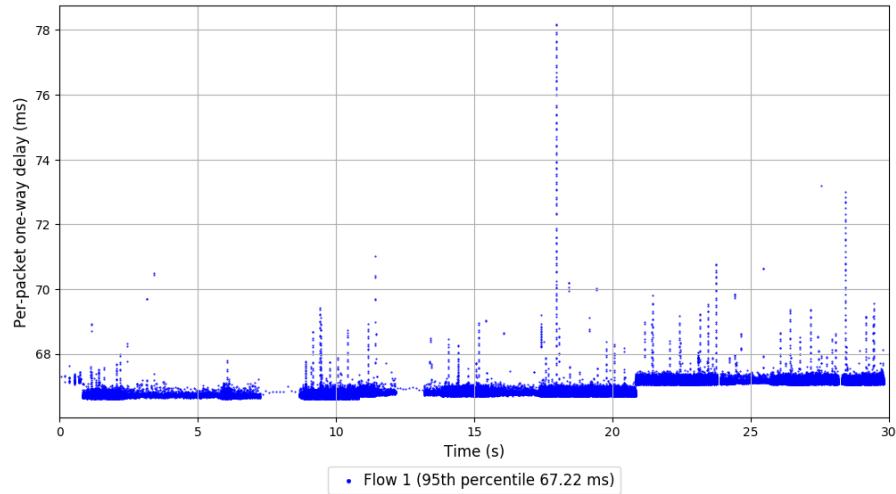
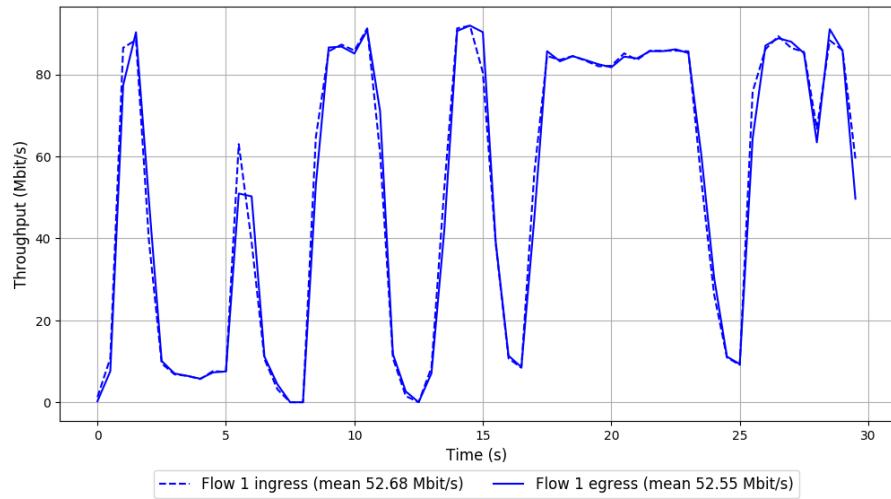
Run 4: Statistics of QUIC Cubic

Start at: 2017-12-05 16:55:06

End at: 2017-12-05 16:55:36

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.55 Mbit/s
95th percentile per-packet one-way delay: 67.221 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 52.55 Mbit/s
95th percentile per-packet one-way delay: 67.221 ms
Loss rate: 0.68%
```

Run 4: Report of QUIC Cubic — Data Link



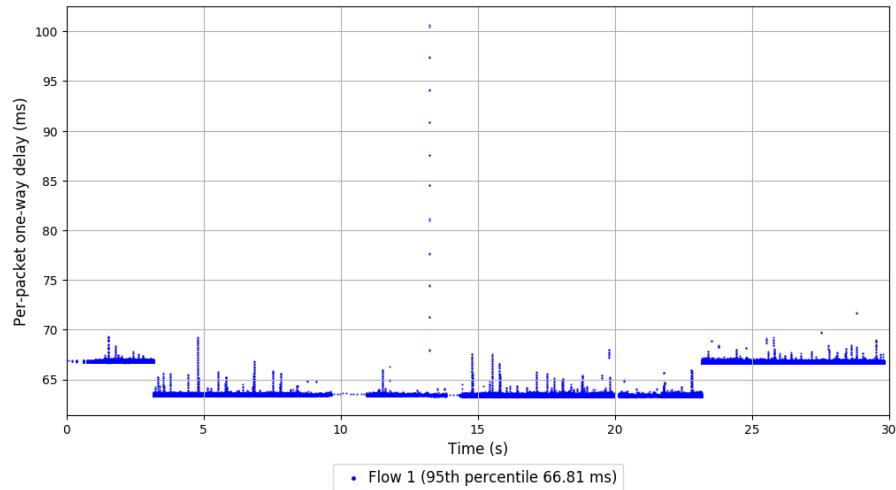
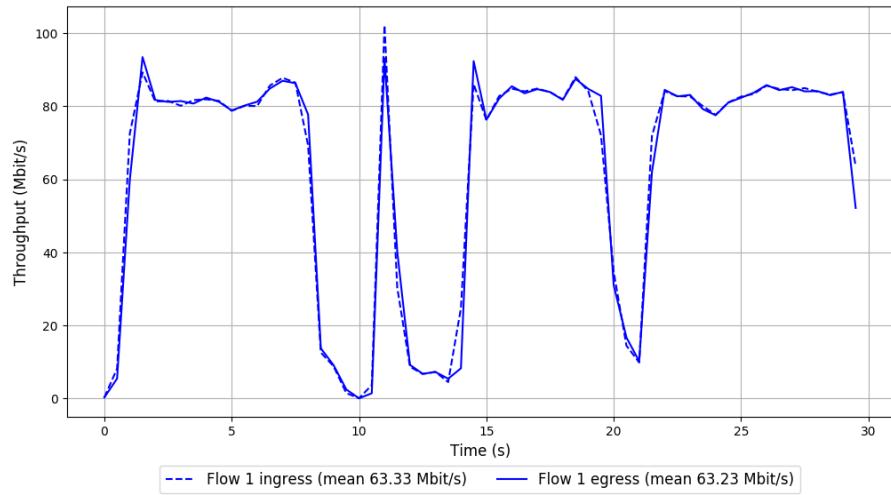
Run 5: Statistics of QUIC Cubic

Start at: 2017-12-05 17:05:24

End at: 2017-12-05 17:05:54

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.23 Mbit/s
95th percentile per-packet one-way delay: 66.815 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 63.23 Mbit/s
95th percentile per-packet one-way delay: 66.815 ms
Loss rate: 0.60%
```

Run 5: Report of QUIC Cubic — Data Link



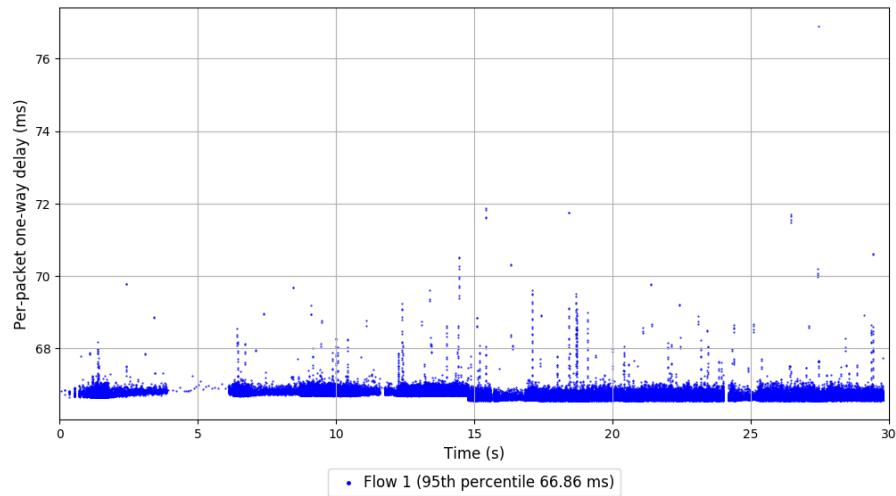
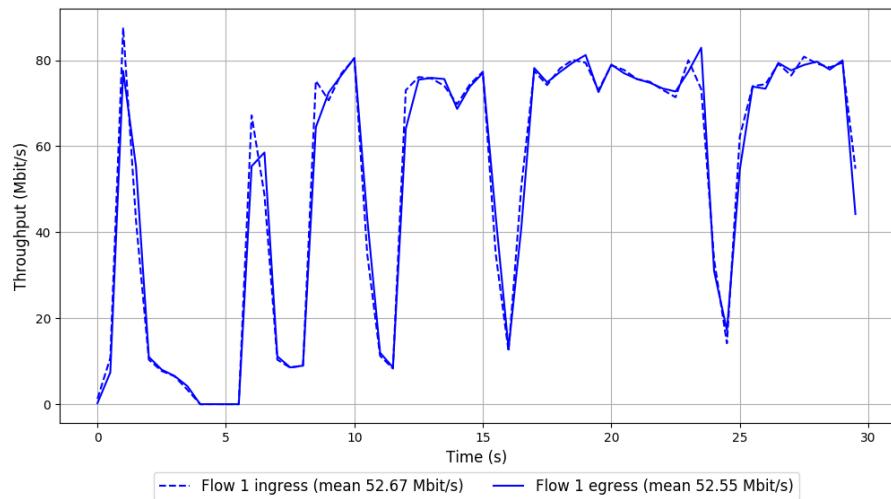
Run 6: Statistics of QUIC Cubic

Start at: 2017-12-05 17:15:52

End at: 2017-12-05 17:16:22

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.55 Mbit/s
95th percentile per-packet one-way delay: 66.865 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 52.55 Mbit/s
95th percentile per-packet one-way delay: 66.865 ms
Loss rate: 0.67%
```

Run 6: Report of QUIC Cubic — Data Link



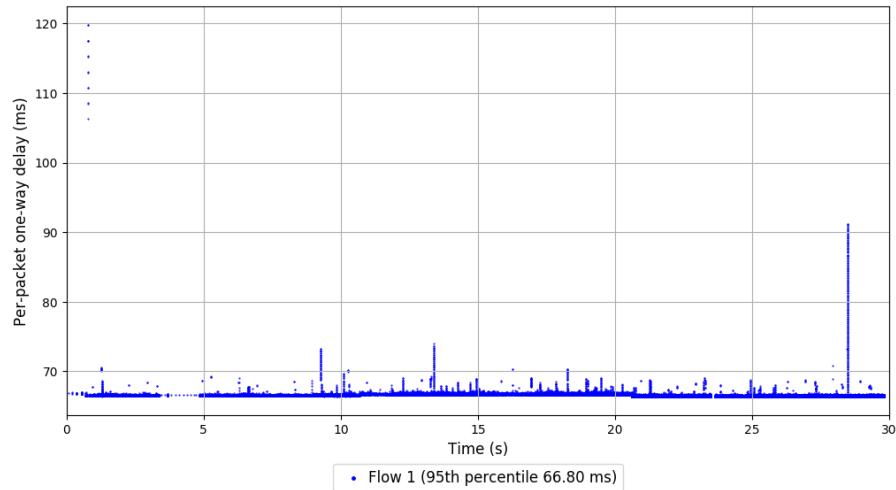
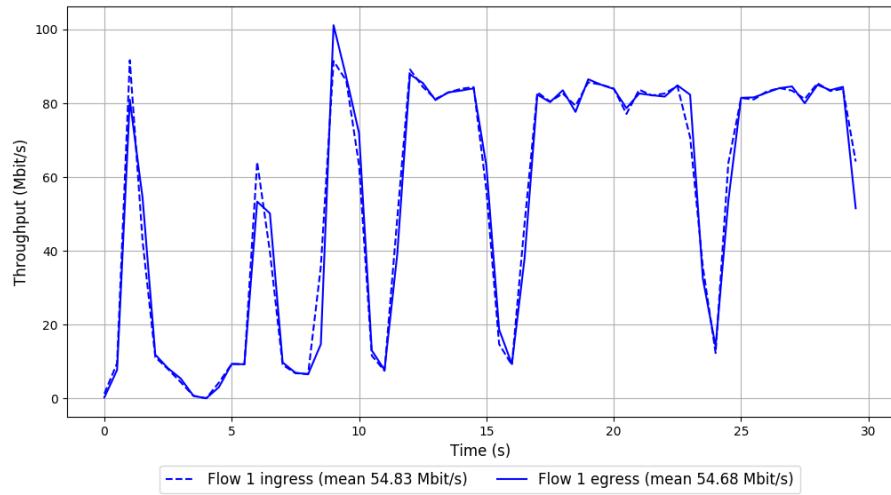
Run 7: Statistics of QUIC Cubic

Start at: 2017-12-05 17:26:06

End at: 2017-12-05 17:26:36

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.68 Mbit/s
95th percentile per-packet one-way delay: 66.798 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 54.68 Mbit/s
95th percentile per-packet one-way delay: 66.798 ms
Loss rate: 0.72%
```

Run 7: Report of QUIC Cubic — Data Link



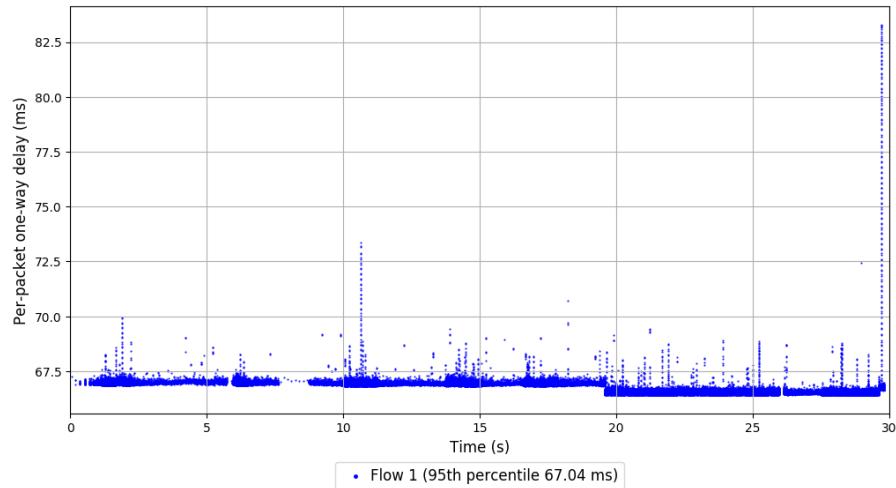
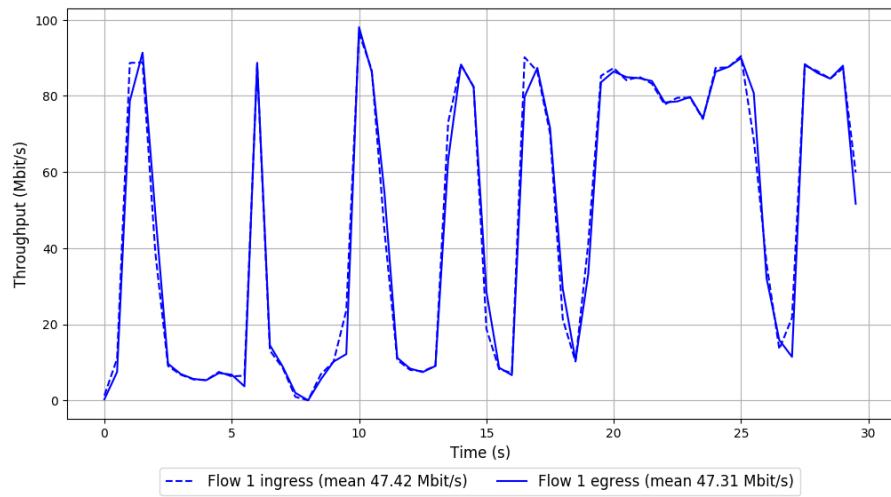
Run 8: Statistics of QUIC Cubic

Start at: 2017-12-05 17:36:37

End at: 2017-12-05 17:37:07

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.31 Mbit/s
95th percentile per-packet one-way delay: 67.038 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 47.31 Mbit/s
95th percentile per-packet one-way delay: 67.038 ms
Loss rate: 0.68%
```

Run 8: Report of QUIC Cubic — Data Link



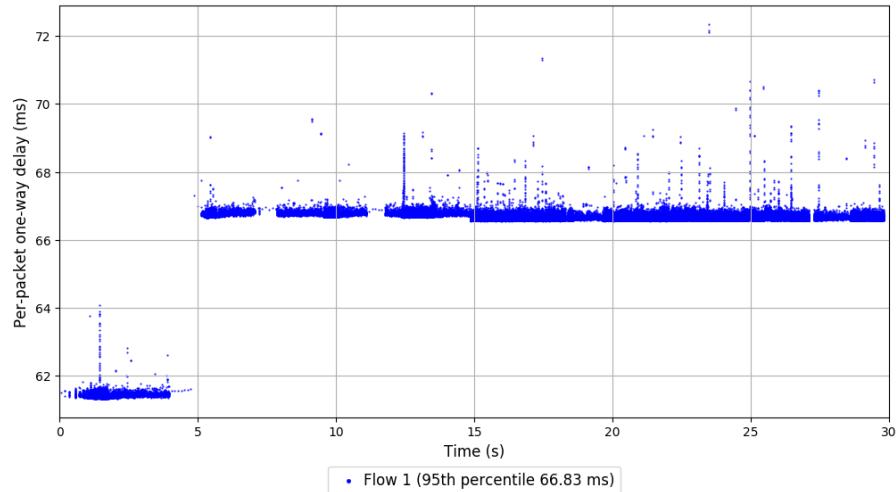
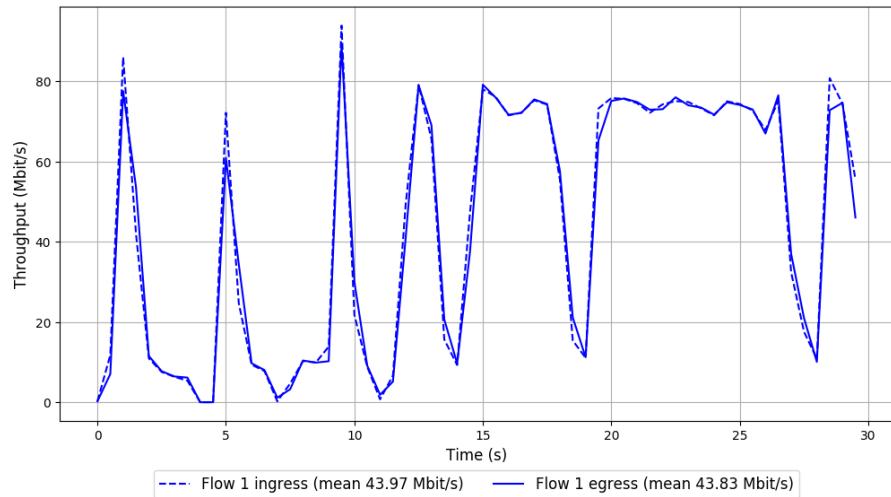
Run 9: Statistics of QUIC Cubic

Start at: 2017-12-05 17:47:32

End at: 2017-12-05 17:48:02

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.83 Mbit/s
95th percentile per-packet one-way delay: 66.828 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 43.83 Mbit/s
95th percentile per-packet one-way delay: 66.828 ms
Loss rate: 0.74%
```

Run 9: Report of QUIC Cubic — Data Link



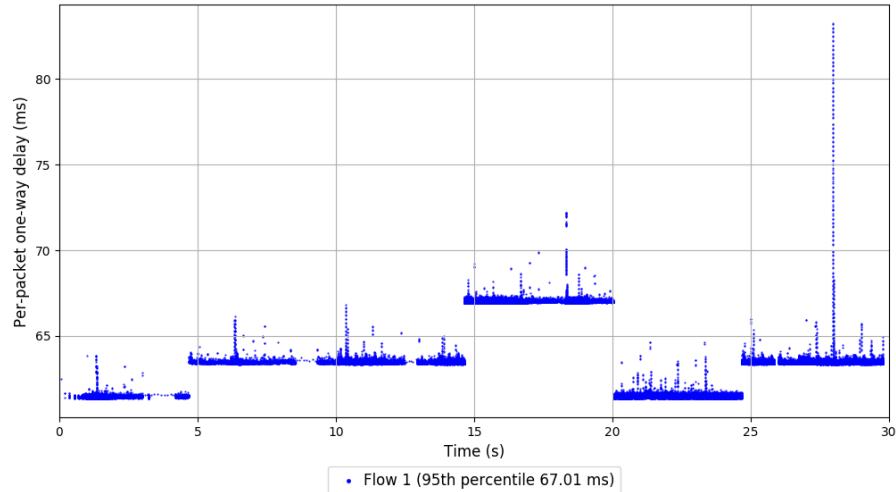
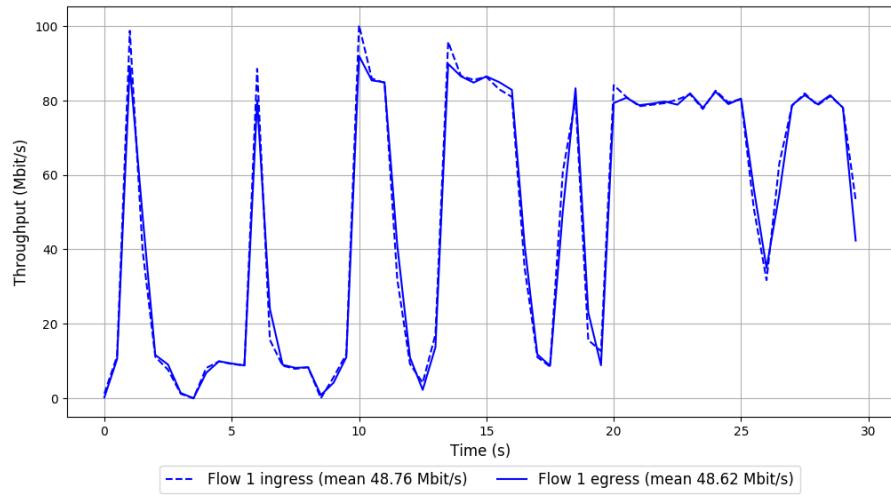
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-05 17:57:42

End at: 2017-12-05 17:58:12

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.62 Mbit/s
95th percentile per-packet one-way delay: 67.010 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 48.62 Mbit/s
95th percentile per-packet one-way delay: 67.010 ms
Loss rate: 0.71%
```

Run 10: Report of QUIC Cubic — Data Link



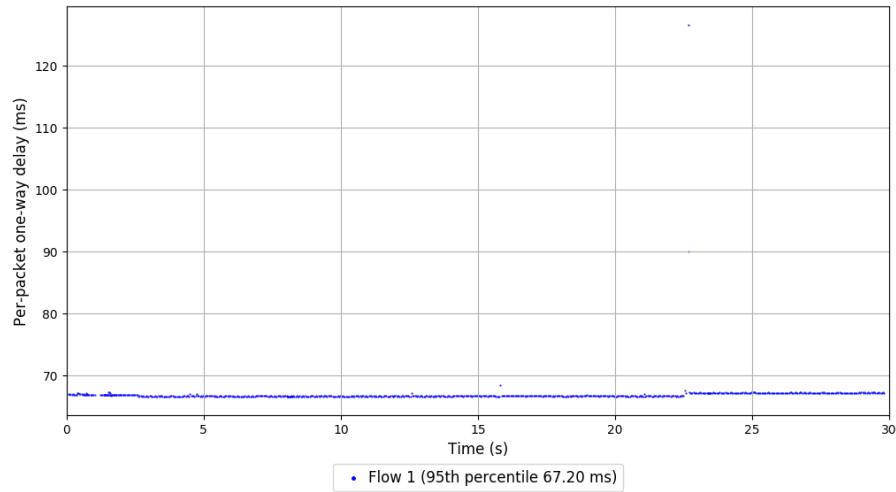
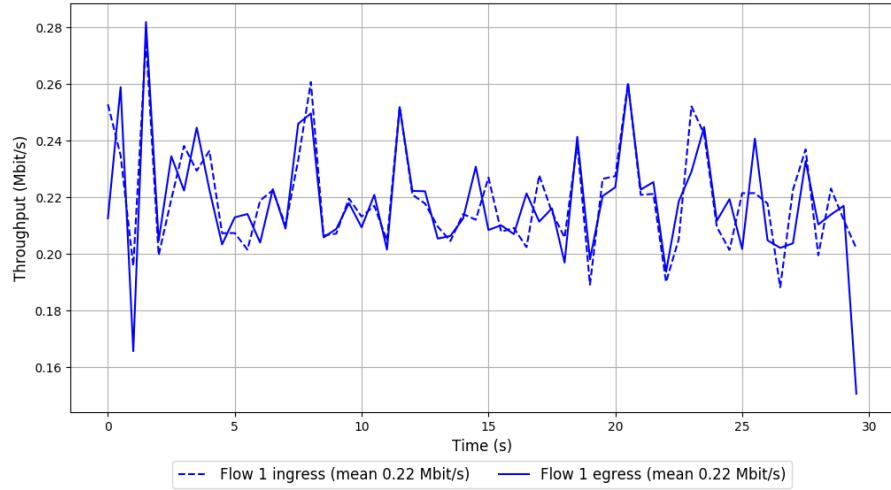
Run 1: Statistics of SCReAM

Start at: 2017-12-05 16:19:44

End at: 2017-12-05 16:20:15

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.197 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.197 ms
Loss rate: 0.64%
```

Run 1: Report of SCReAM — Data Link



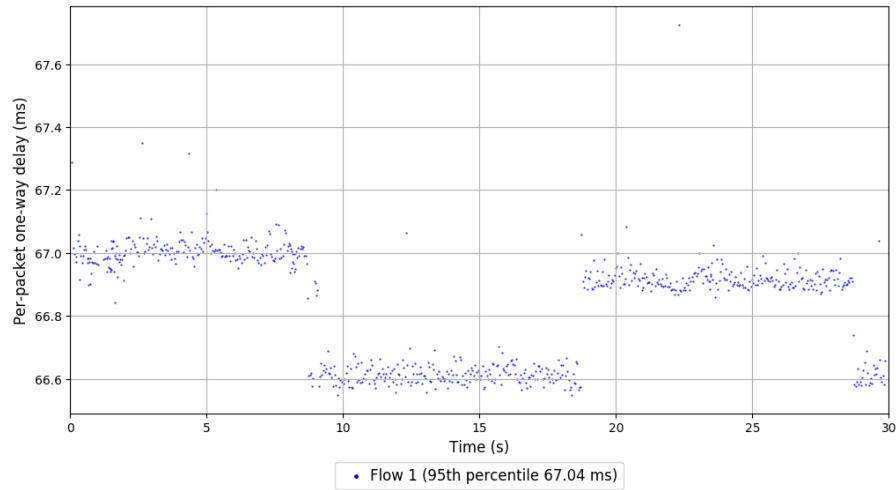
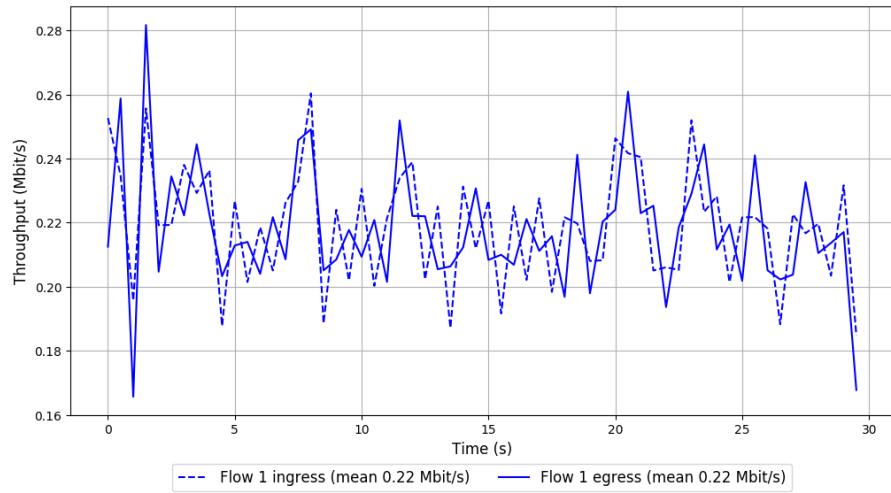
Run 2: Statistics of SCReAM

Start at: 2017-12-05 16:29:58

End at: 2017-12-05 16:30:28

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.040 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.040 ms
Loss rate: 0.38%
```

Run 2: Report of SCReAM — Data Link



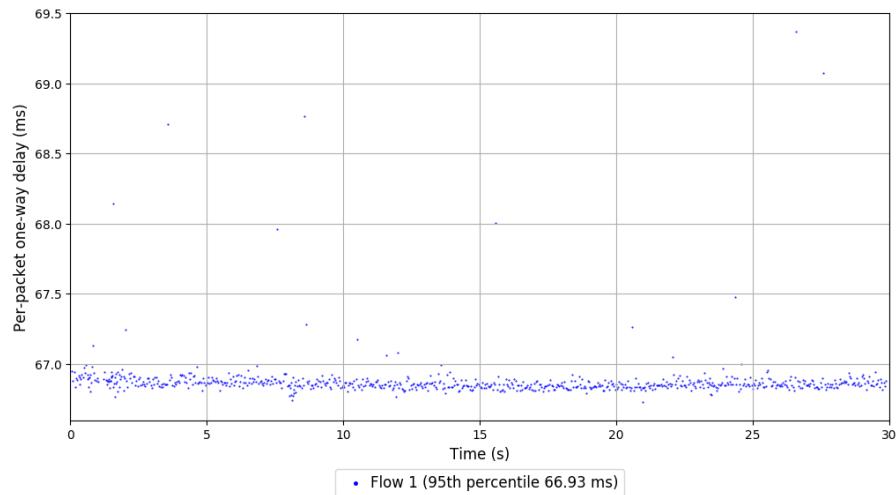
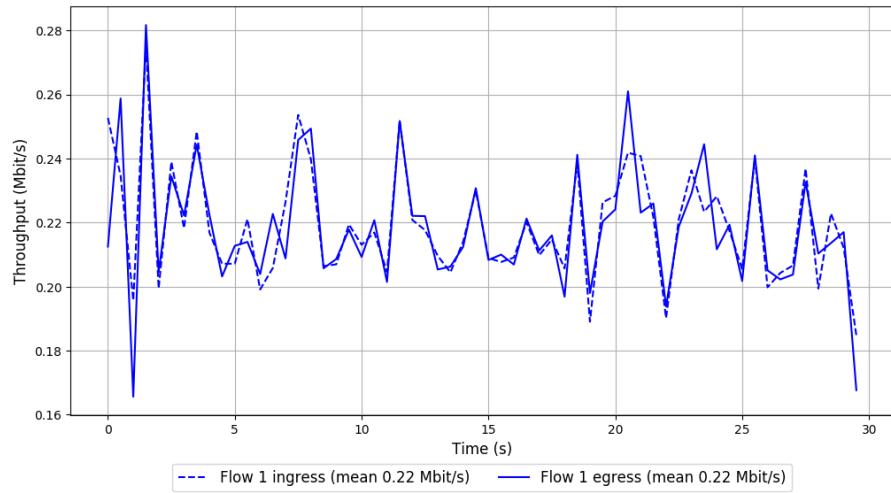
Run 3: Statistics of SCReAM

Start at: 2017-12-05 16:40:15

End at: 2017-12-05 16:40:45

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.934 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.934 ms
Loss rate: 0.38%
```

Run 3: Report of SCReAM — Data Link



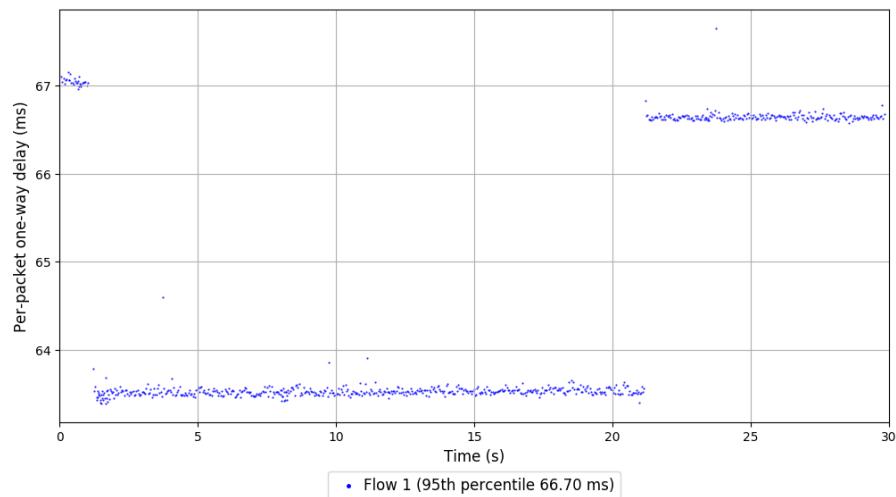
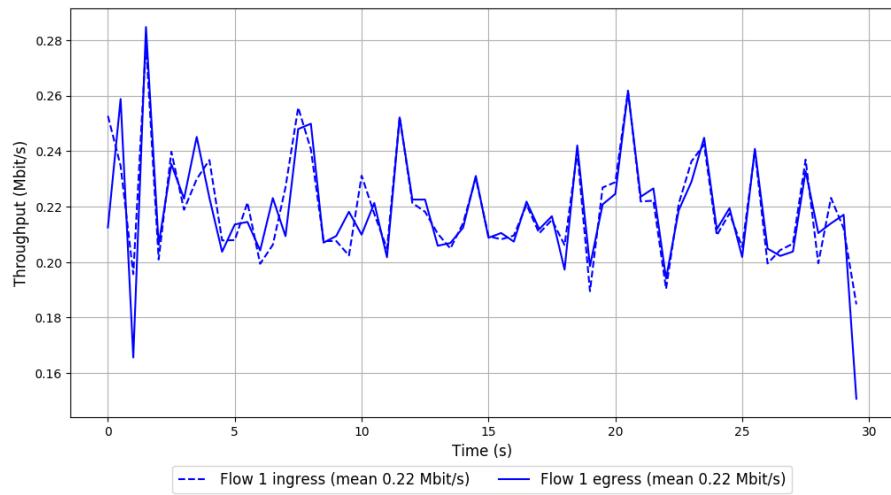
Run 4: Statistics of SCReAM

Start at: 2017-12-05 16:50:46

End at: 2017-12-05 16:51:16

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.702 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.702 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link



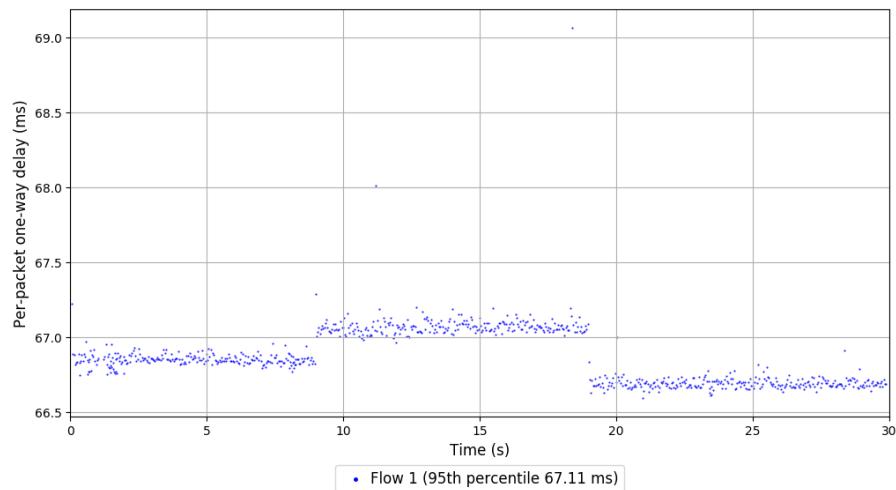
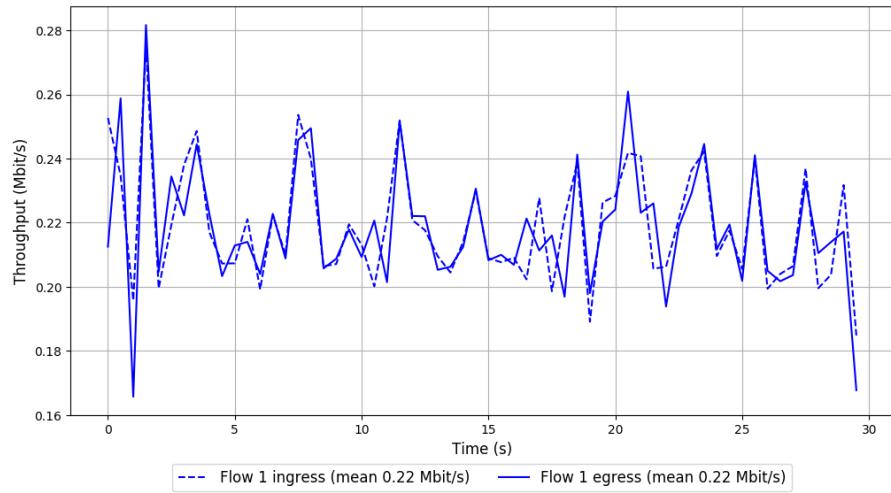
Run 5: Statistics of SCReAM

Start at: 2017-12-05 17:01:08

End at: 2017-12-05 17:01:38

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.112 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.112 ms
Loss rate: 0.38%
```

Run 5: Report of SCReAM — Data Link



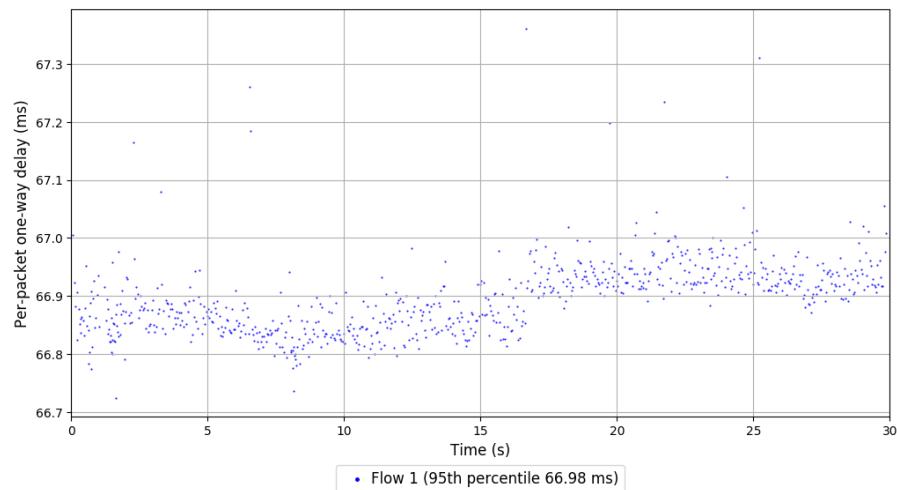
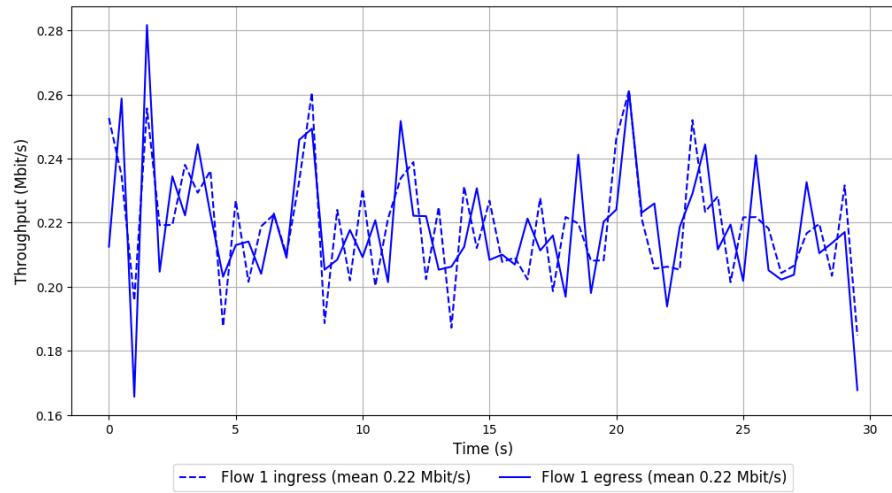
Run 6: Statistics of SCReAM

Start at: 2017-12-05 17:11:30

End at: 2017-12-05 17:12:00

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.983 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.983 ms
Loss rate: 0.38%
```

Run 6: Report of SCReAM — Data Link



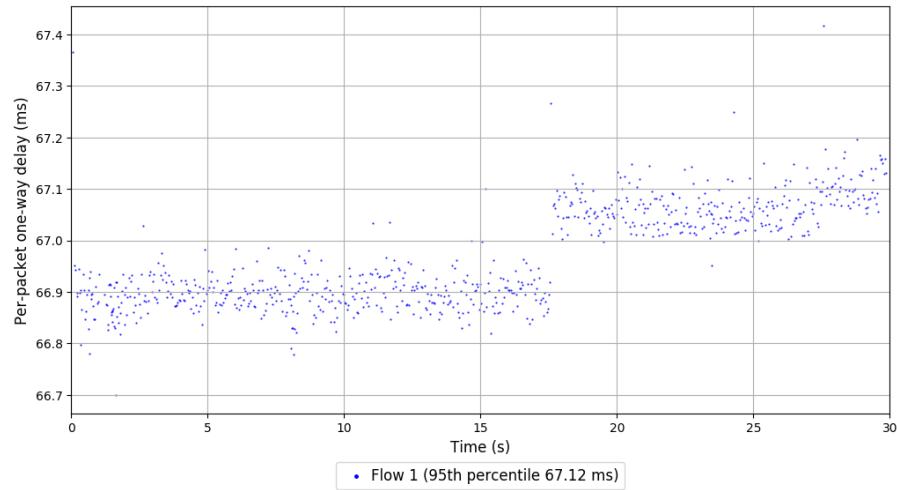
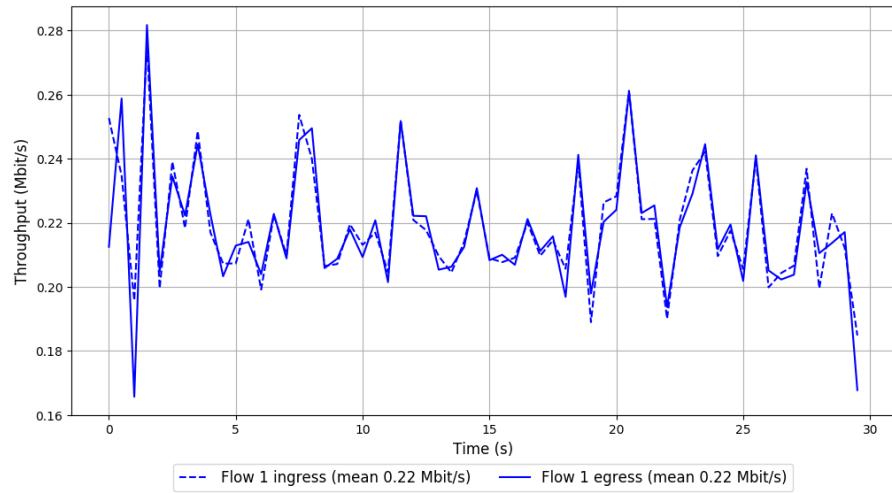
Run 7: Statistics of SCReAM

Start at: 2017-12-05 17:21:49

End at: 2017-12-05 17:22:20

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.119 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.119 ms
Loss rate: 0.38%
```

Run 7: Report of SCReAM — Data Link



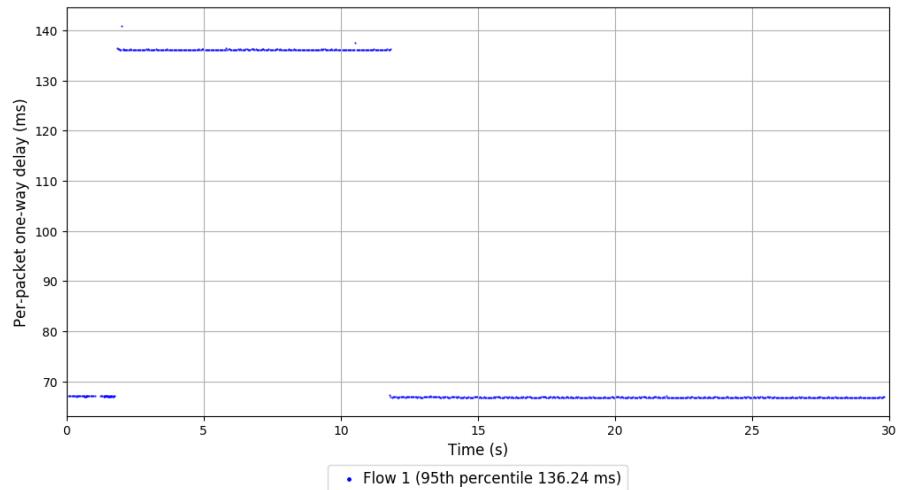
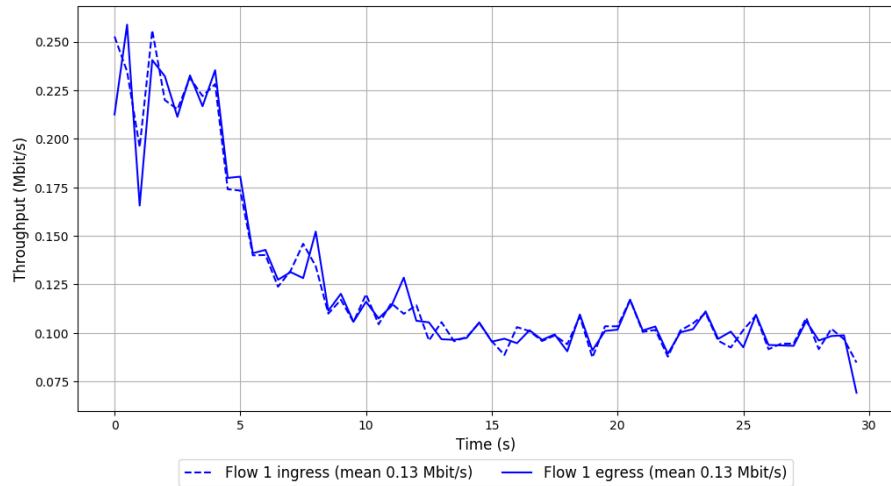
Run 8: Statistics of SCReAM

Start at: 2017-12-05 17:32:15

End at: 2017-12-05 17:32:45

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 136.236 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 136.236 ms
Loss rate: 0.40%
```

Run 8: Report of SCReAM — Data Link



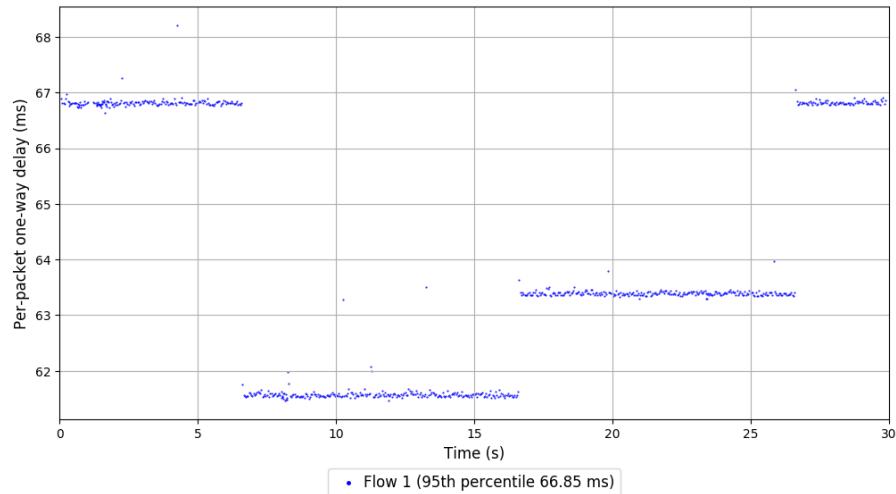
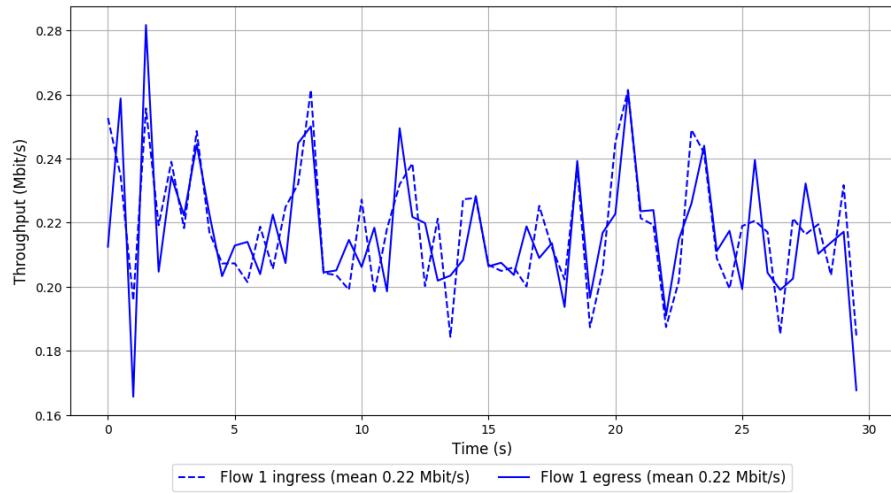
Run 9: Statistics of SCReAM

Start at: 2017-12-05 17:43:10

End at: 2017-12-05 17:43:41

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.846 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.846 ms
Loss rate: 0.38%
```

Run 9: Report of SCReAM — Data Link



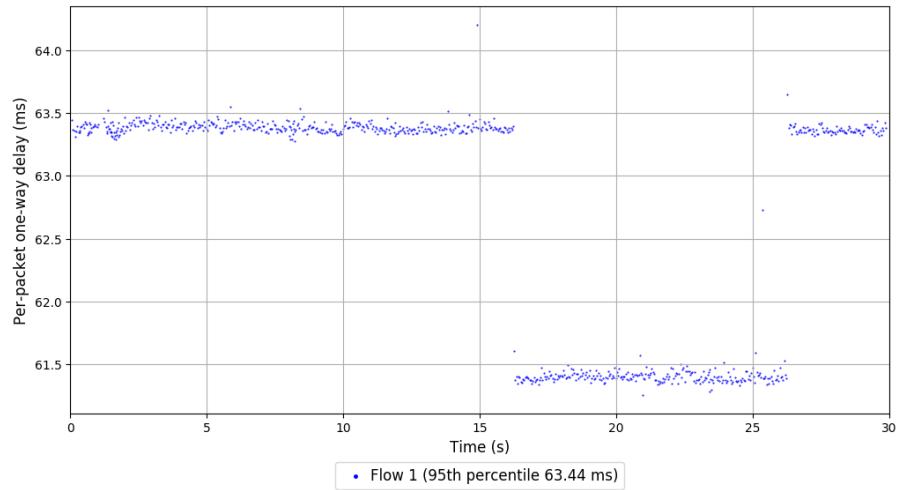
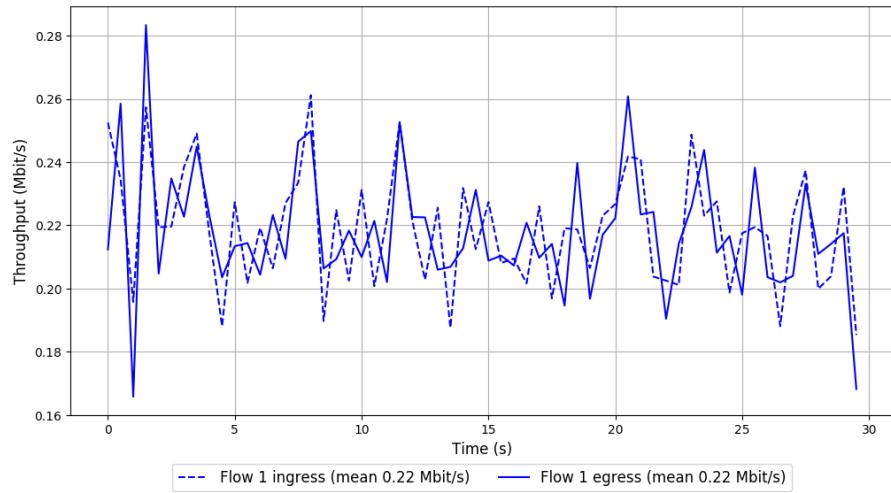
Run 10: Statistics of SCReAM

Start at: 2017-12-05 17:53:21

End at: 2017-12-05 17:53:51

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.436 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.436 ms
Loss rate: 0.38%
```

Run 10: Report of SCReAM — Data Link

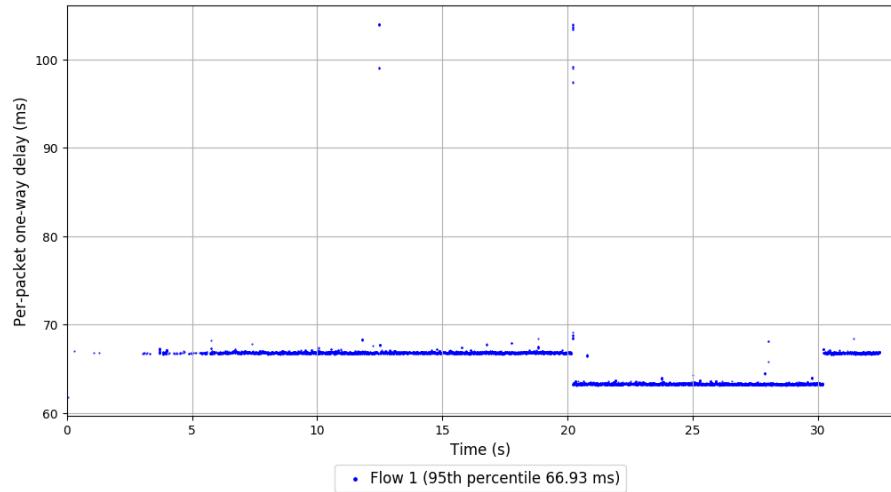
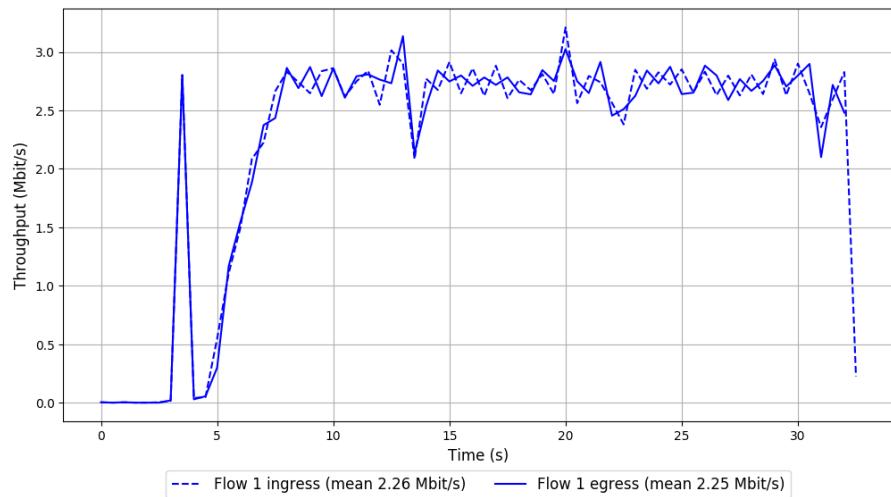


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-05 16:28:00
End at: 2017-12-05 16:28:30

# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 66.934 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 66.934 ms
Loss rate: 0.58%
```

Run 1: Report of WebRTC media — Data Link



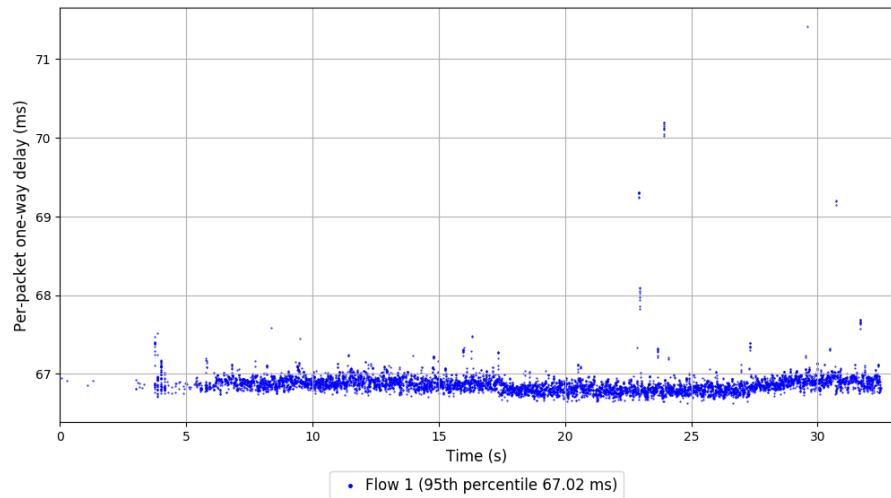
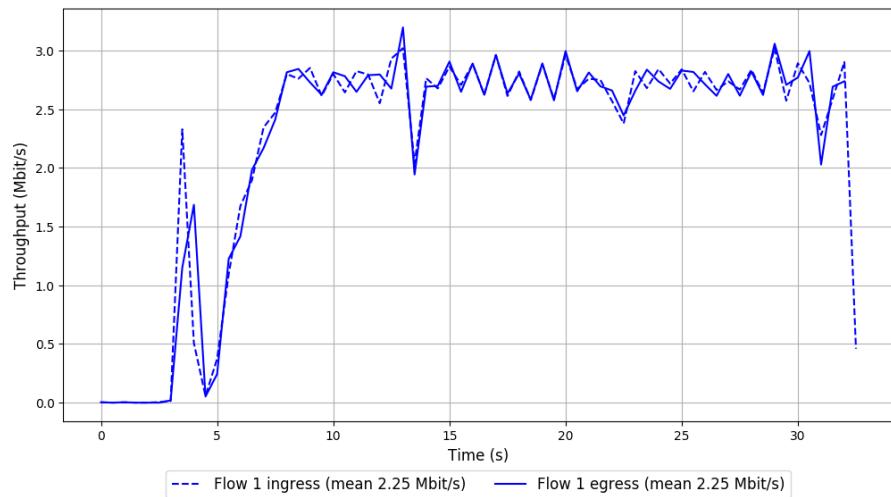
Run 2: Statistics of WebRTC media

Start at: 2017-12-05 16:38:12

End at: 2017-12-05 16:38:42

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.019 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.019 ms
Loss rate: 0.62%
```

Run 2: Report of WebRTC media — Data Link



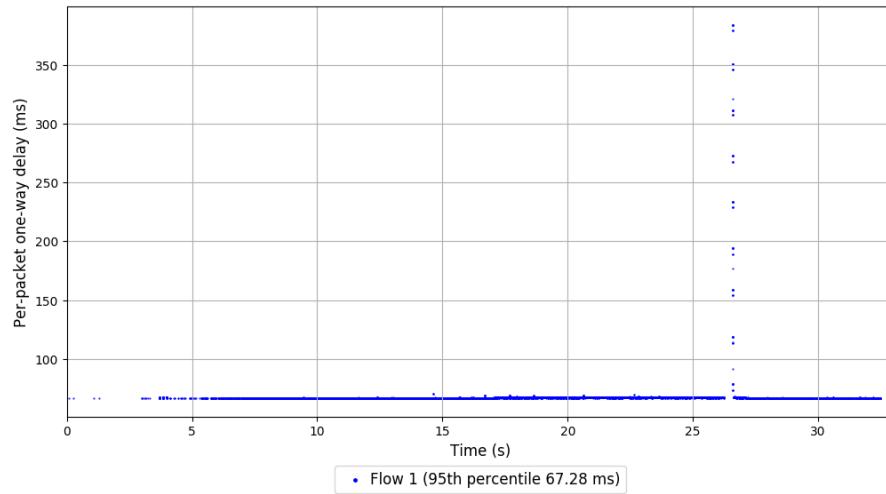
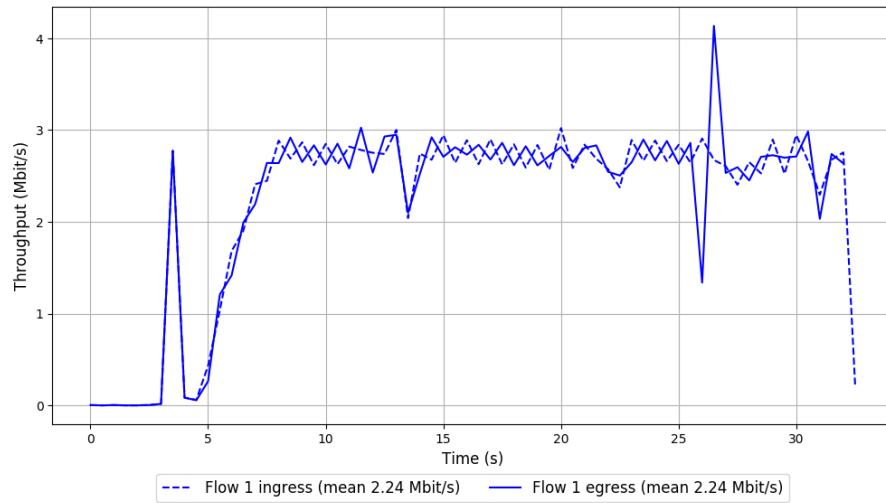
Run 3: Statistics of WebRTC media

Start at: 2017-12-05 16:48:43

End at: 2017-12-05 16:49:13

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 67.281 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 67.281 ms
Loss rate: 0.46%
```

Run 3: Report of WebRTC media — Data Link



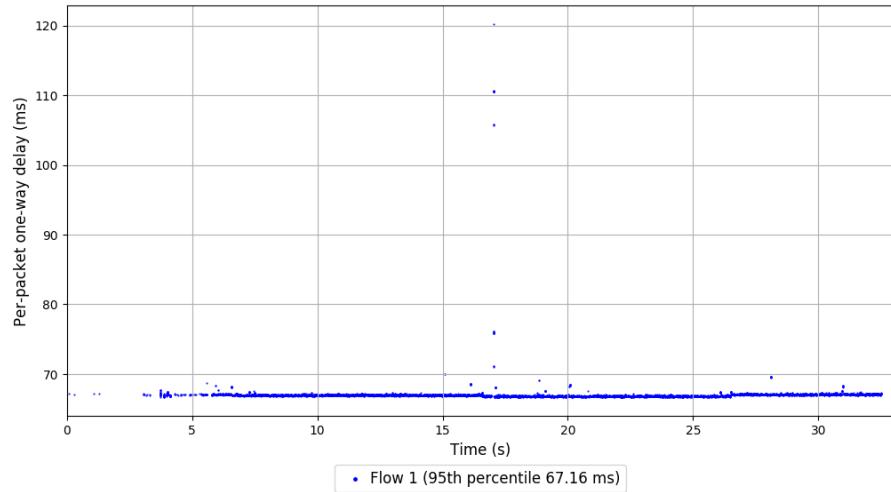
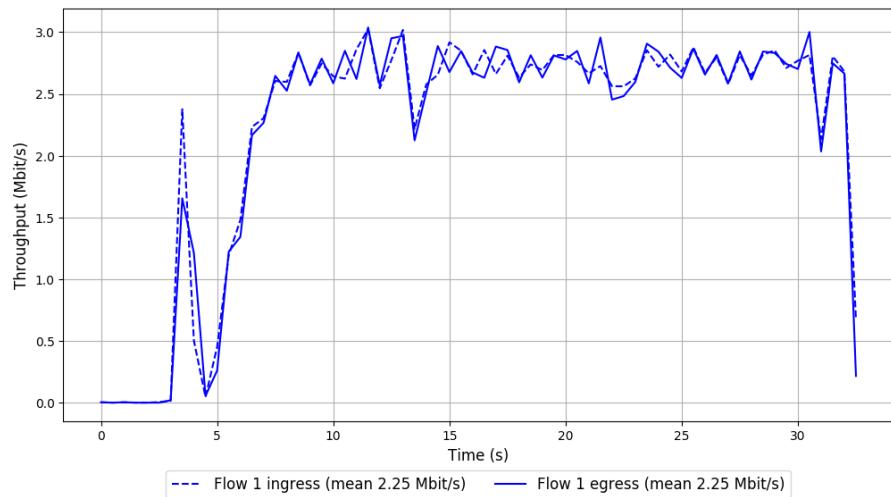
Run 4: Statistics of WebRTC media

Start at: 2017-12-05 16:58:53

End at: 2017-12-05 16:59:23

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.157 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.157 ms
Loss rate: 0.61%
```

Run 4: Report of WebRTC media — Data Link



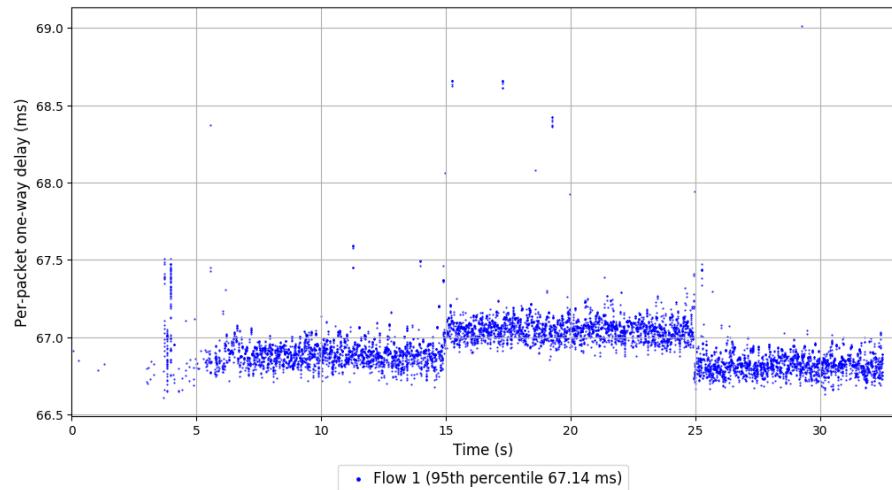
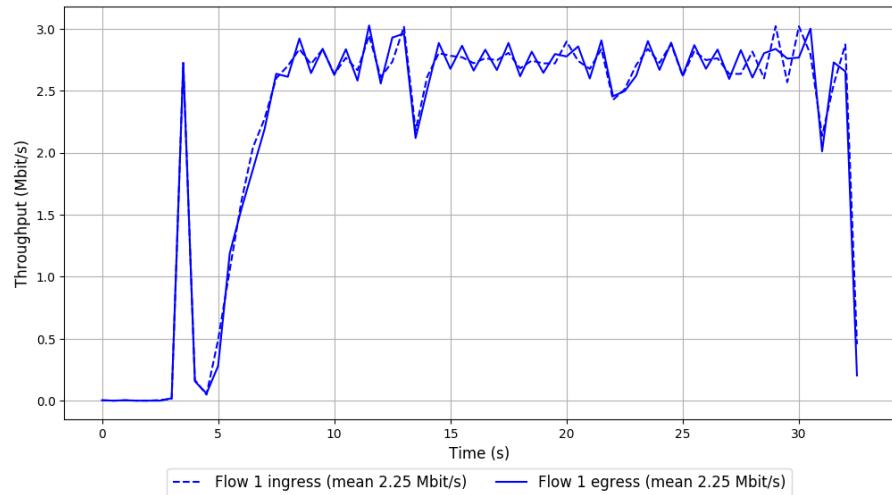
Run 5: Statistics of WebRTC media

Start at: 2017-12-05 17:09:15

End at: 2017-12-05 17:09:45

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.136 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.136 ms
Loss rate: 0.47%
```

Run 5: Report of WebRTC media — Data Link

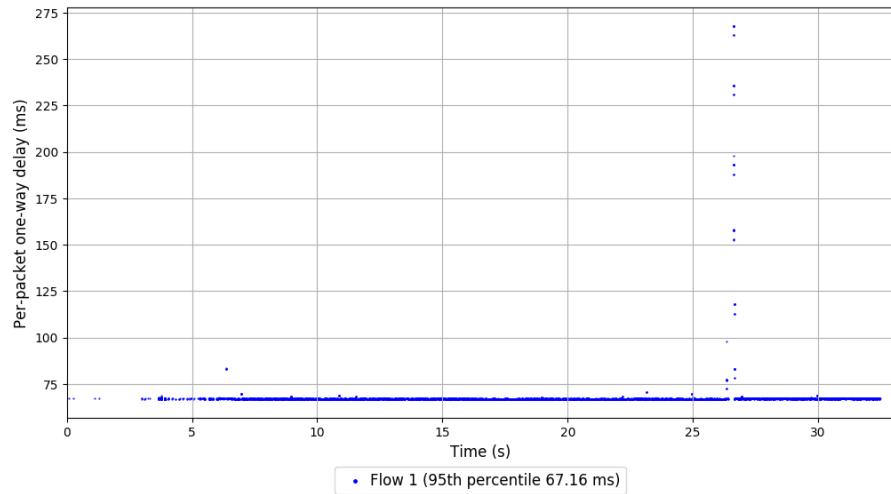
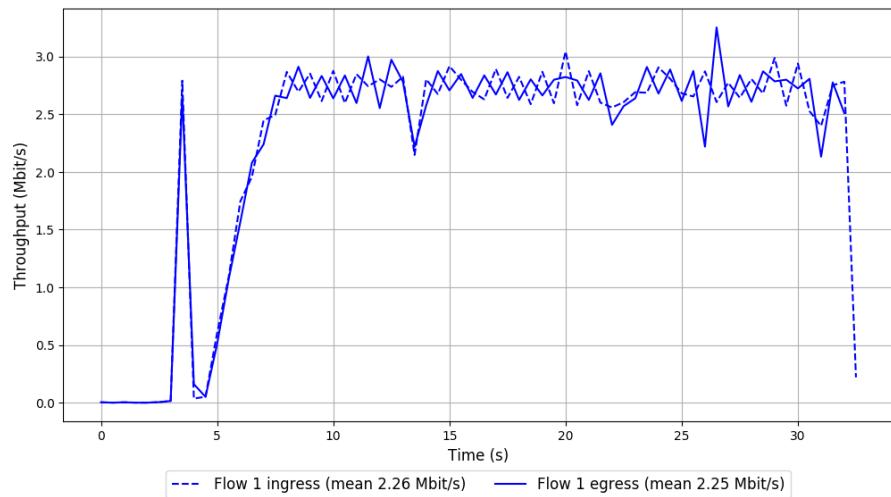


```
Run 6: Statistics of WebRTC media

Start at: 2017-12-05 17:19:43
End at: 2017-12-05 17:20:13

# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.155 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.155 ms
Loss rate: 0.60%
```

Run 6: Report of WebRTC media — Data Link



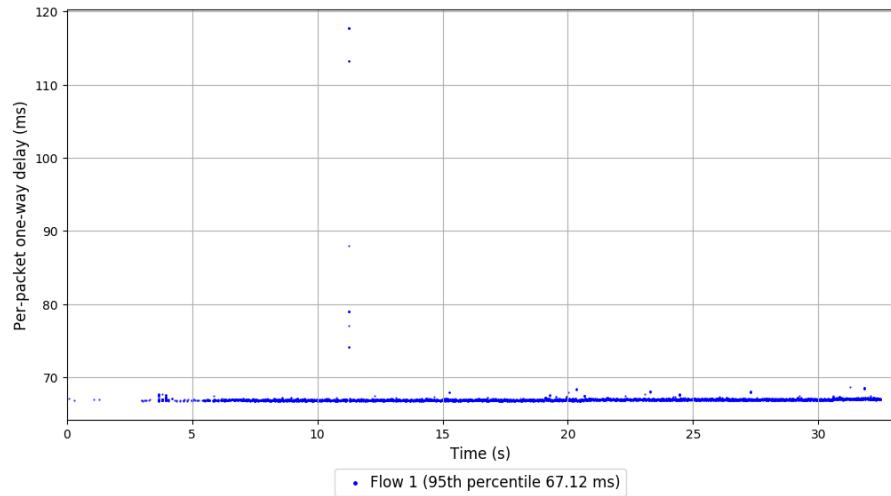
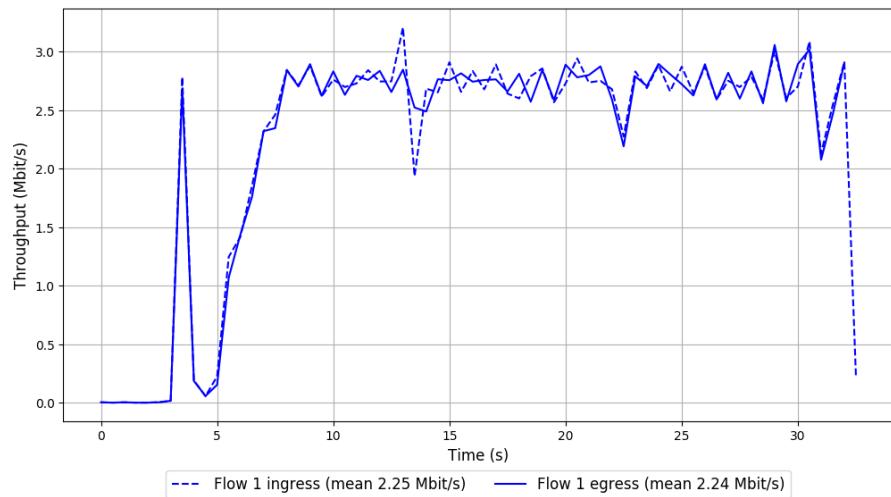
Run 7: Statistics of WebRTC media

Start at: 2017-12-05 17:29:59

End at: 2017-12-05 17:30:29

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 67.118 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 67.118 ms
Loss rate: 0.52%
```

Run 7: Report of WebRTC media — Data Link



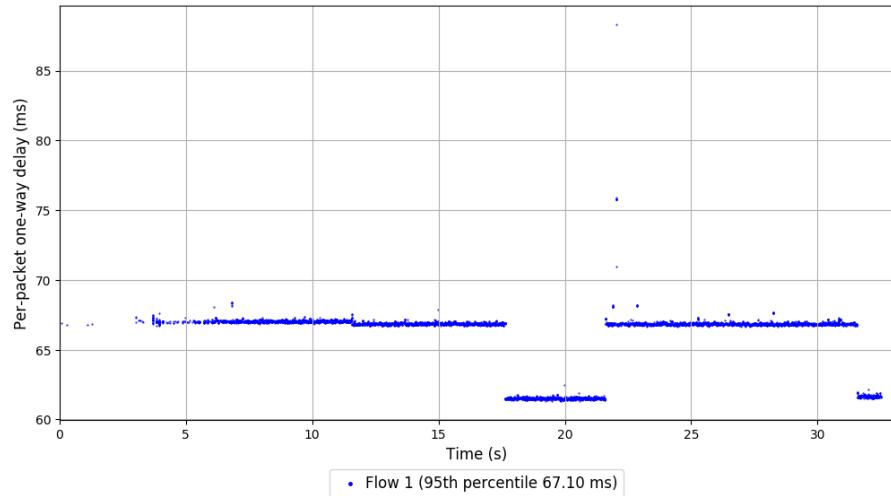
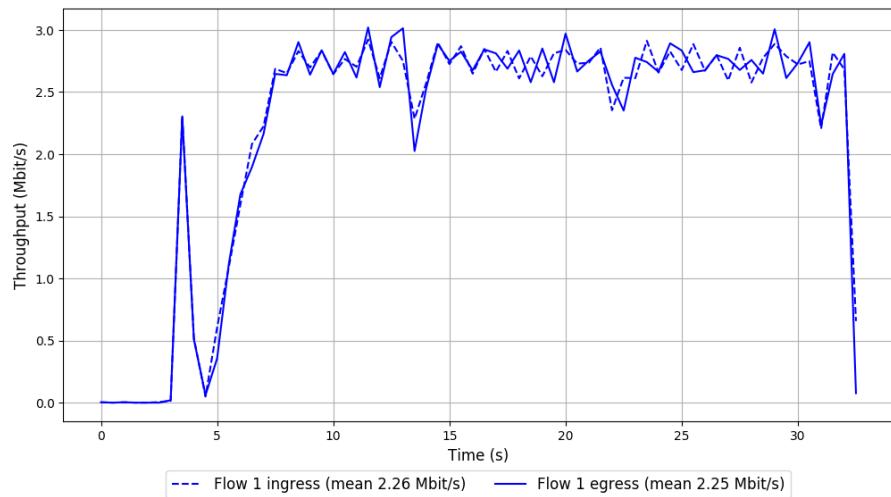
Run 8: Statistics of WebRTC media

Start at: 2017-12-05 17:40:48

End at: 2017-12-05 17:41:18

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.096 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 67.096 ms
Loss rate: 0.60%
```

Run 8: Report of WebRTC media — Data Link



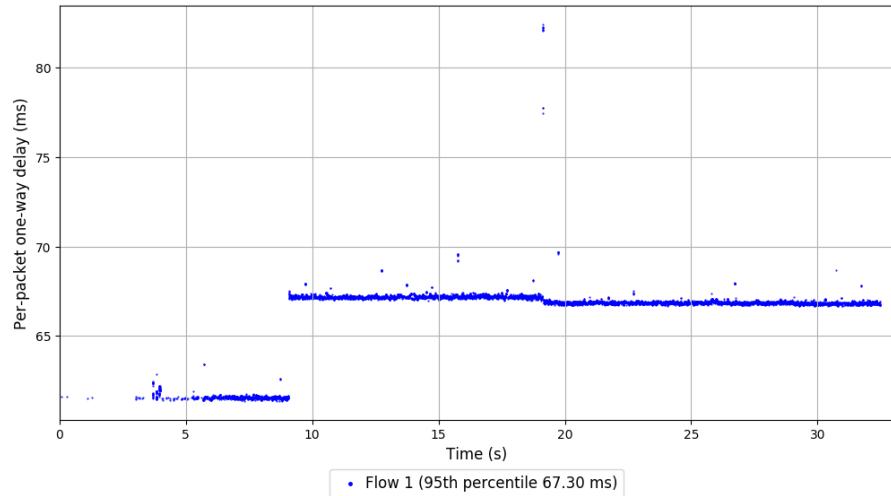
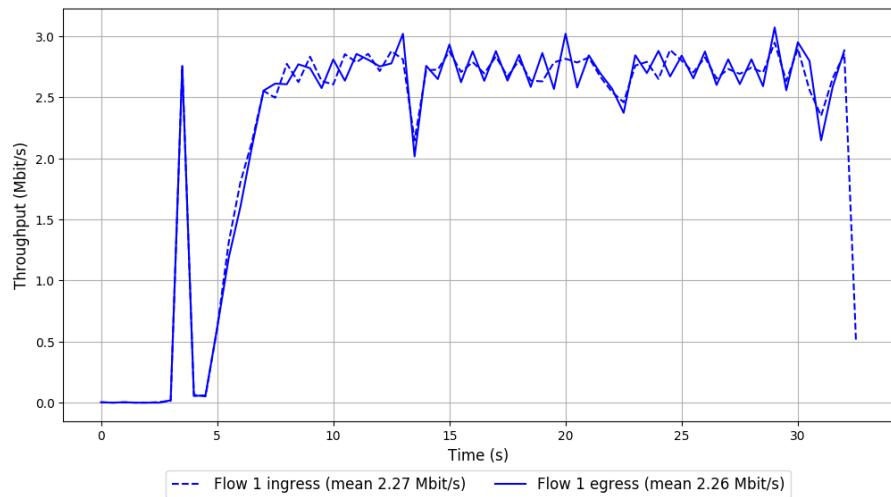
Run 9: Statistics of WebRTC media

Start at: 2017-12-05 17:51:21

End at: 2017-12-05 17:51:51

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 67.295 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 67.295 ms
Loss rate: 0.61%
```

Run 9: Report of WebRTC media — Data Link



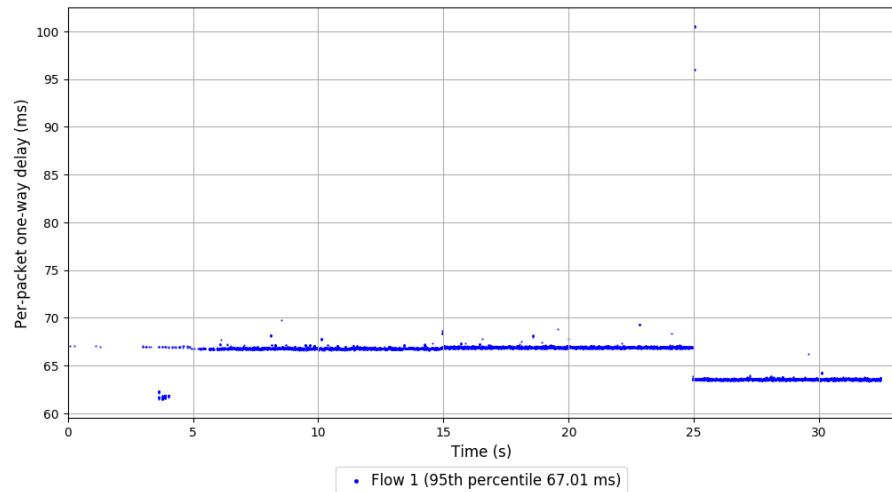
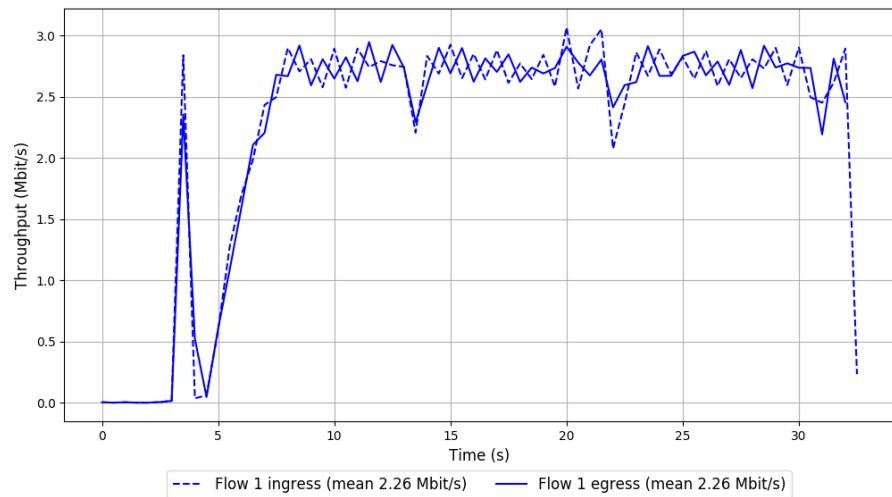
Run 10: Statistics of WebRTC media

Start at: 2017-12-05 18:01:45

End at: 2017-12-05 18:02:15

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 67.006 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 67.006 ms
Loss rate: 0.61%
```

Run 10: Report of WebRTC media — Data Link



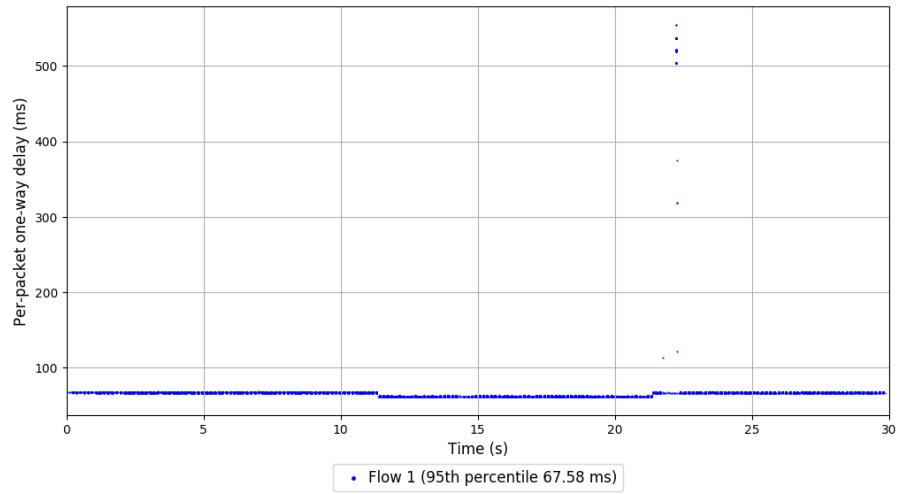
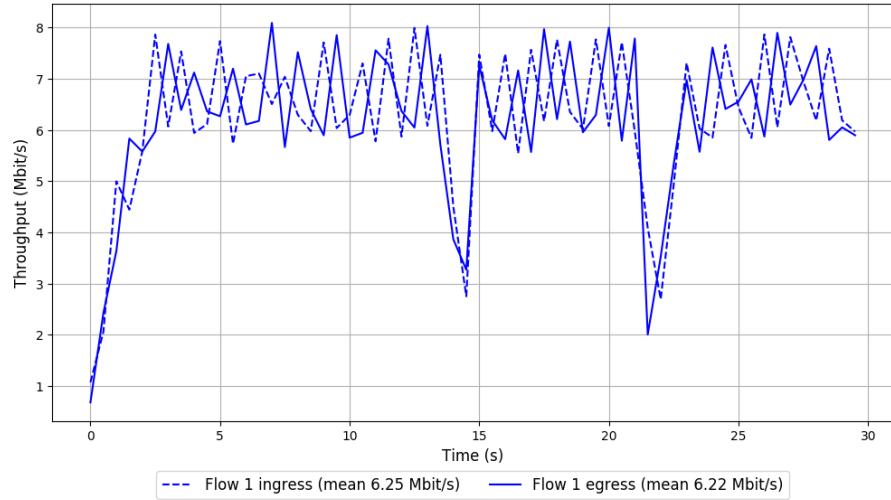
Run 1: Statistics of Sprout

Start at: 2017-12-05 16:22:46

End at: 2017-12-05 16:23:16

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 67.581 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 67.581 ms
Loss rate: 1.05%
```

Run 1: Report of Sprout — Data Link



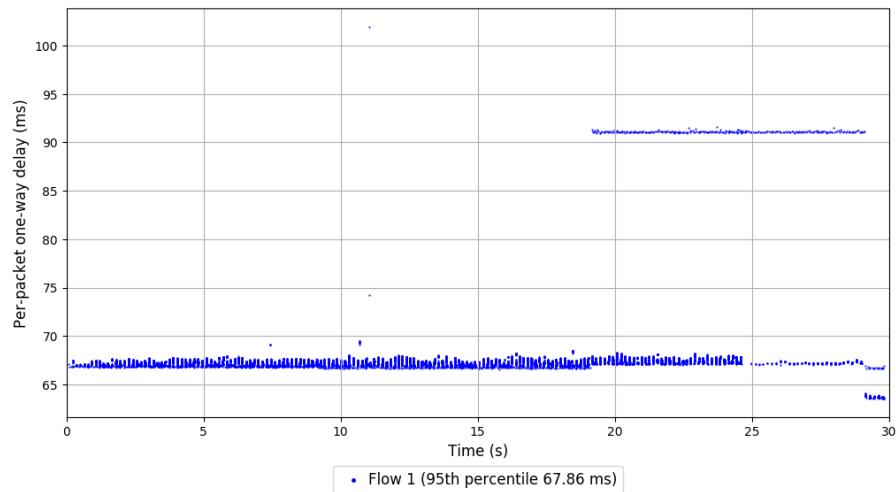
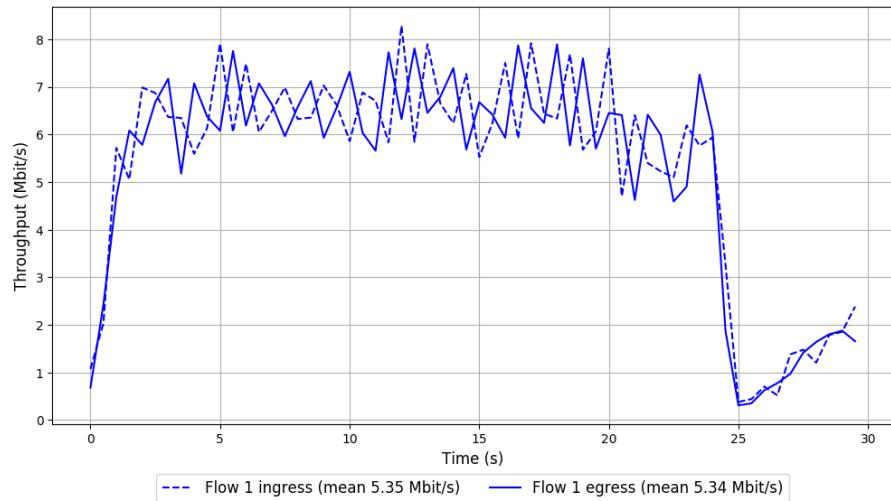
Run 2: Statistics of Sprout

Start at: 2017-12-05 16:32:58

End at: 2017-12-05 16:33:28

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 67.855 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 5.34 Mbit/s
95th percentile per-packet one-way delay: 67.855 ms
Loss rate: 0.72%
```

Run 2: Report of Sprout — Data Link



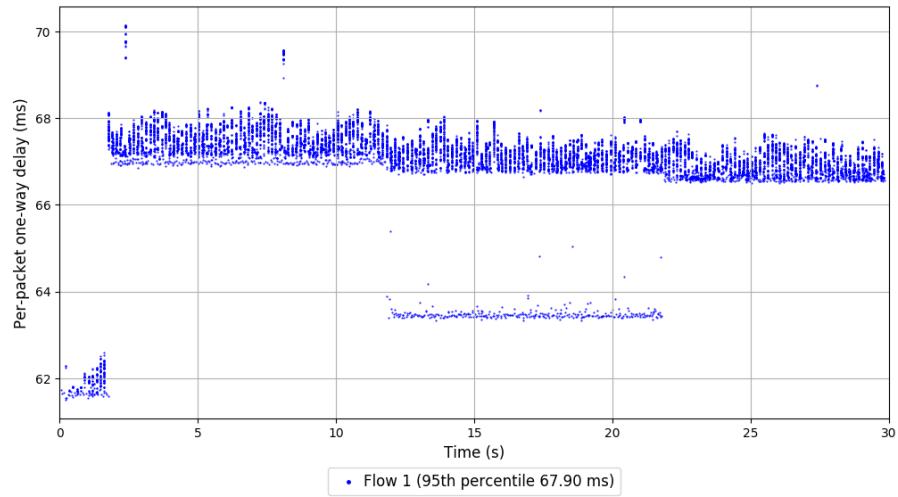
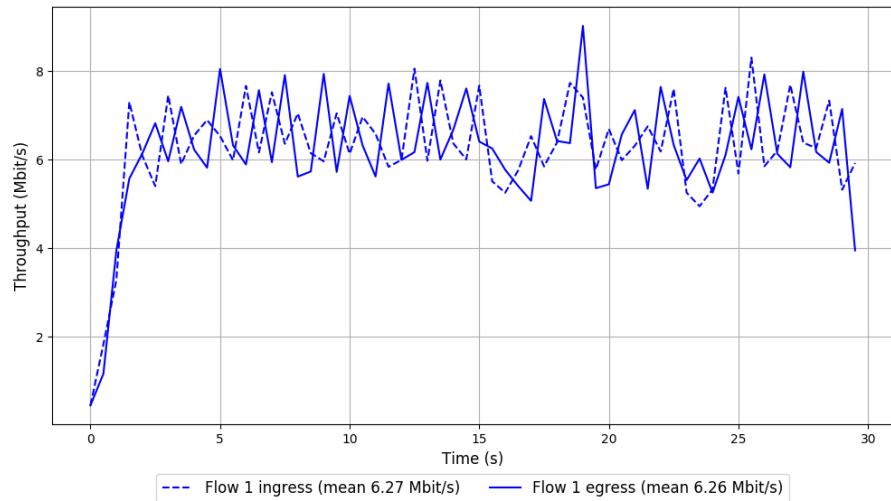
Run 3: Statistics of Sprout

Start at: 2017-12-05 16:43:15

End at: 2017-12-05 16:43:45

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 67.903 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 6.26 Mbit/s
95th percentile per-packet one-way delay: 67.903 ms
Loss rate: 0.53%
```

Run 3: Report of Sprout — Data Link



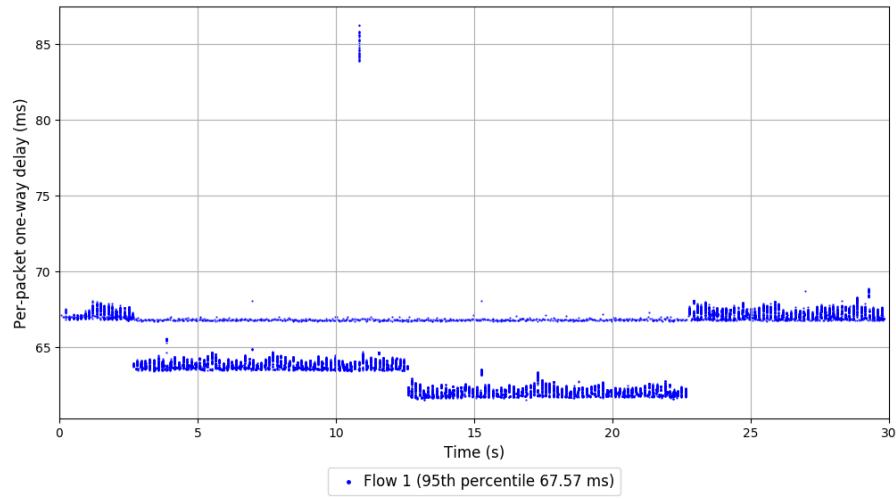
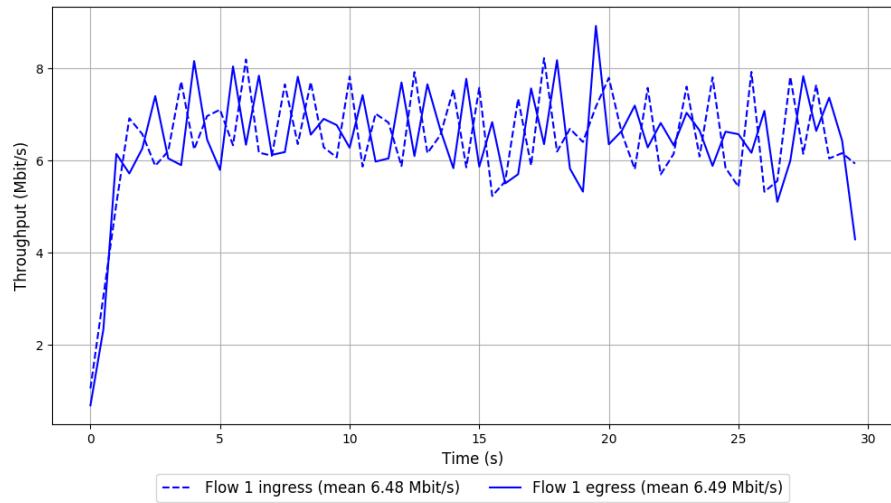
Run 4: Statistics of Sprout

Start at: 2017-12-05 16:53:44

End at: 2017-12-05 16:54:14

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 67.568 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 6.49 Mbit/s
95th percentile per-packet one-way delay: 67.568 ms
Loss rate: 0.51%
```

Run 4: Report of Sprout — Data Link



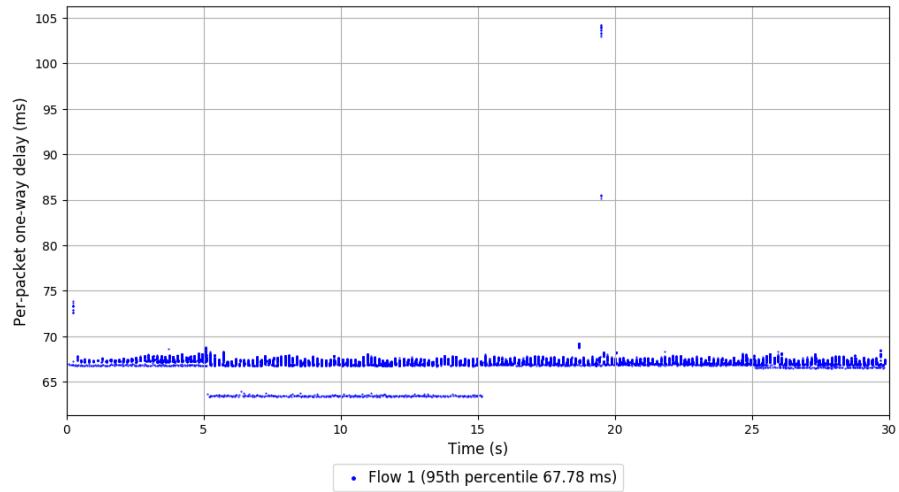
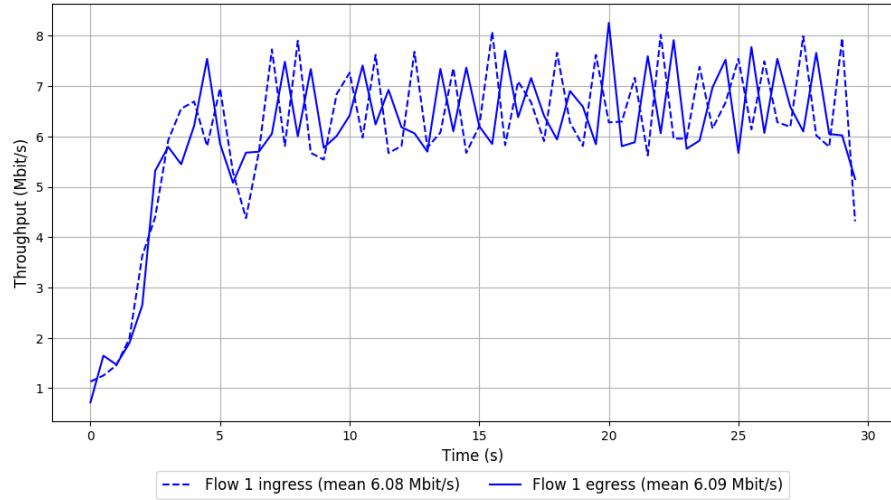
Run 5: Statistics of Sprout

Start at: 2017-12-05 17:04:02

End at: 2017-12-05 17:04:32

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 67.784 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 67.784 ms
Loss rate: 0.34%
```

Run 5: Report of Sprout — Data Link



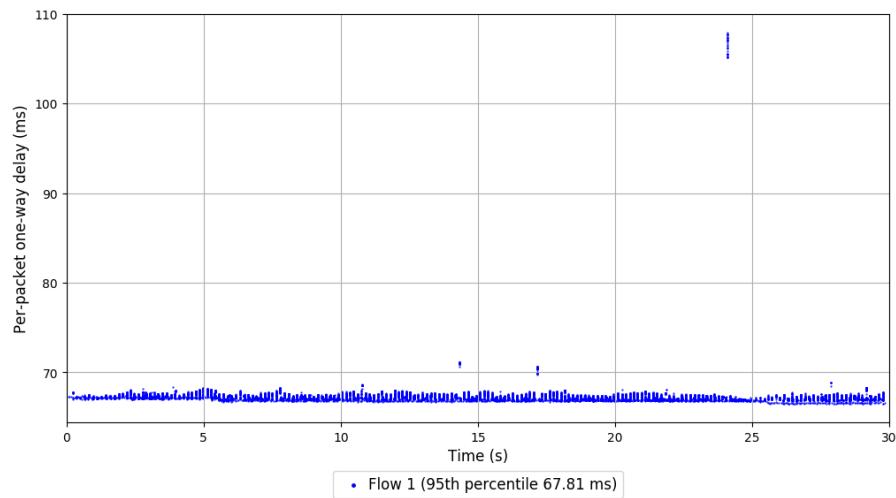
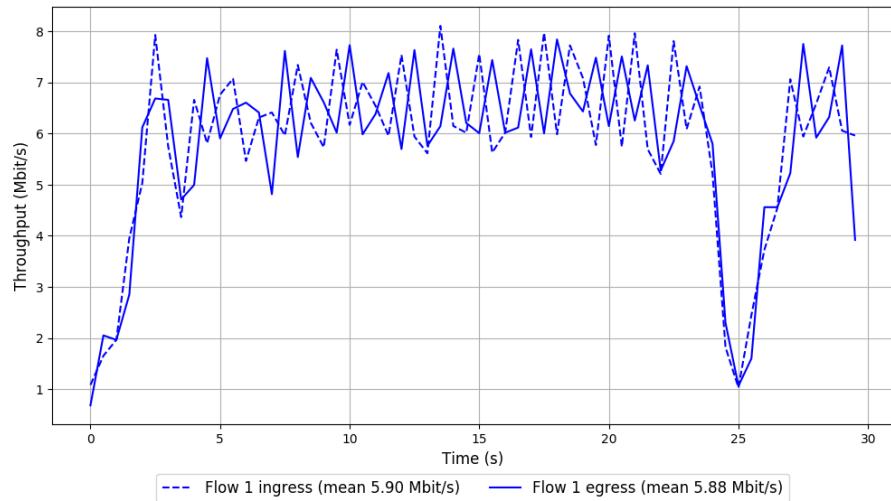
Run 6: Statistics of Sprout

Start at: 2017-12-05 17:14:32

End at: 2017-12-05 17:15:02

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 67.815 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 5.88 Mbit/s
95th percentile per-packet one-way delay: 67.815 ms
Loss rate: 0.64%
```

Run 6: Report of Sprout — Data Link



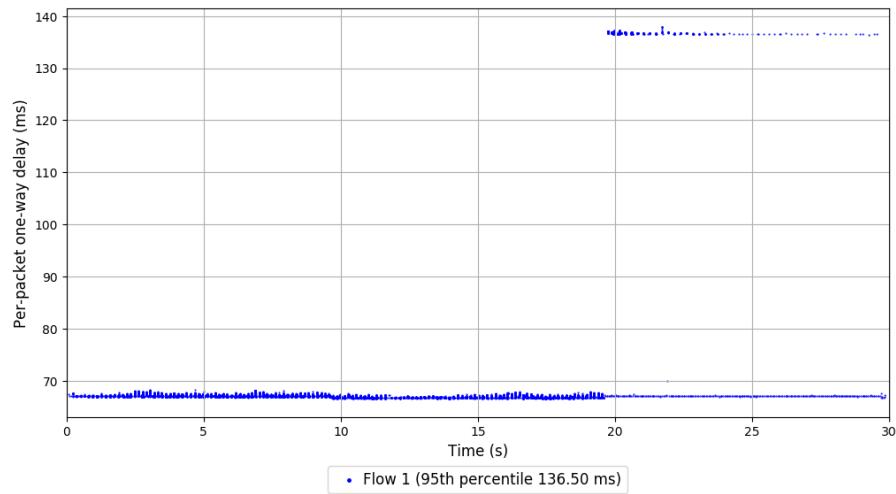
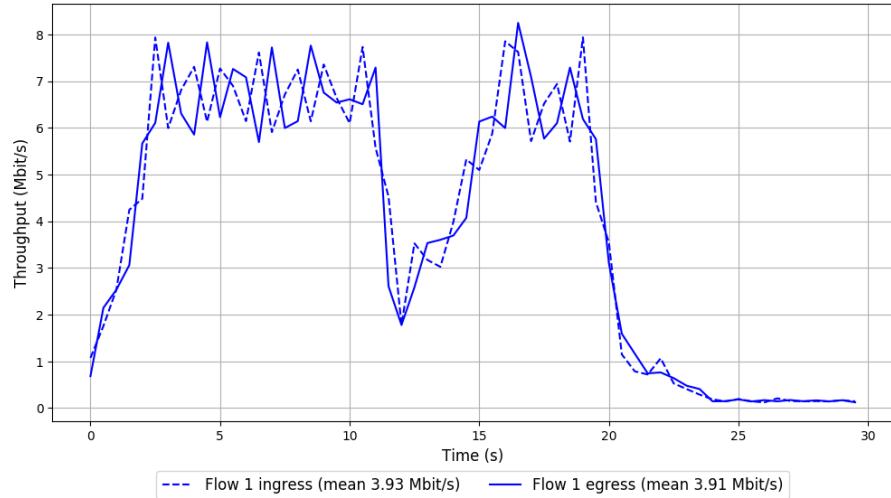
Run 7: Statistics of Sprout

Start at: 2017-12-05 17:24:47

End at: 2017-12-05 17:25:17

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 136.505 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 136.505 ms
Loss rate: 0.84%
```

Run 7: Report of Sprout — Data Link



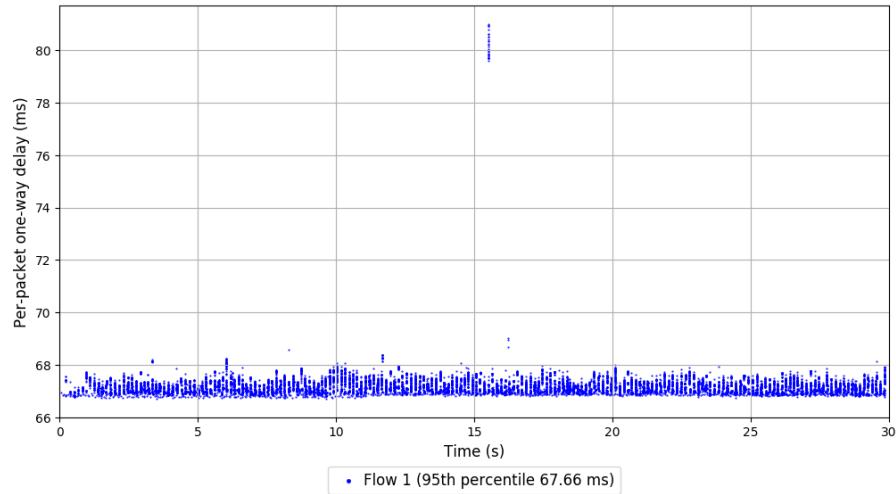
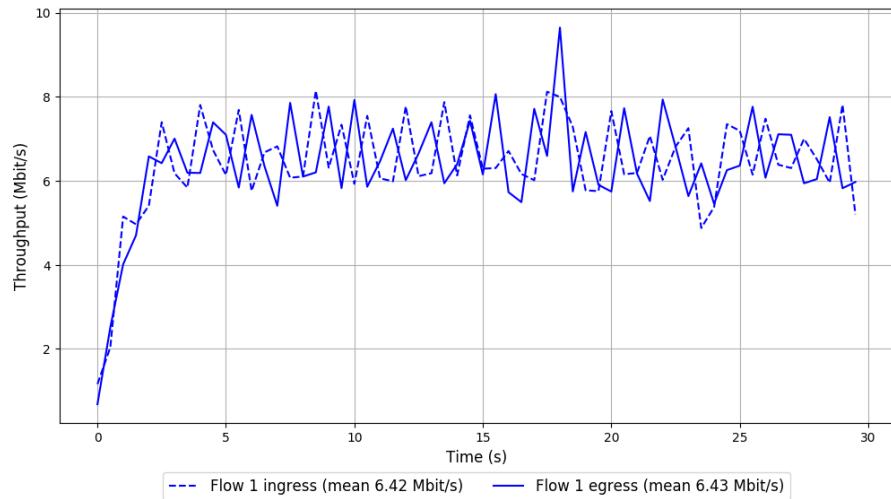
Run 8: Statistics of Sprout

Start at: 2017-12-05 17:35:16

End at: 2017-12-05 17:35:46

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 67.657 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 67.657 ms
Loss rate: 0.37%
```

Run 8: Report of Sprout — Data Link



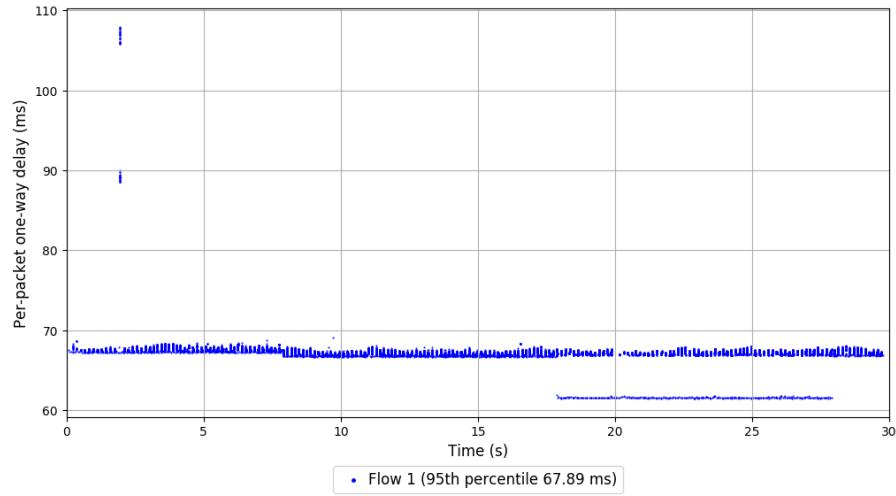
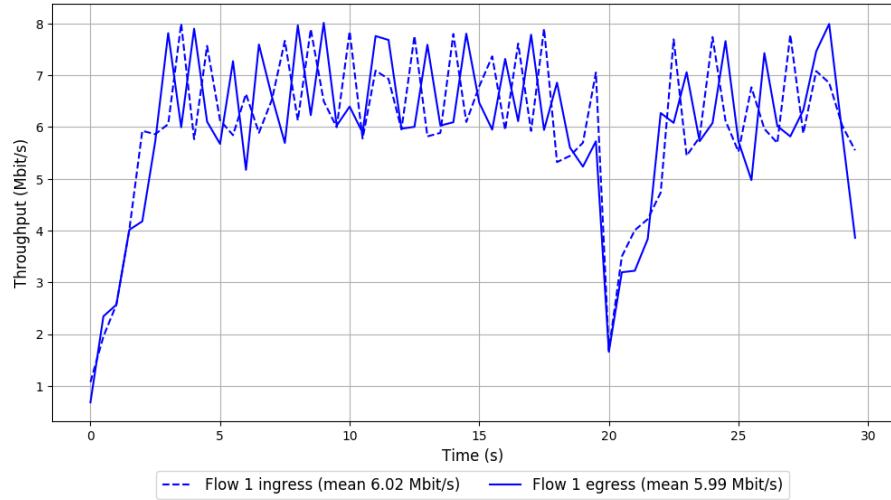
Run 9: Statistics of Sprout

Start at: 2017-12-05 17:46:09

End at: 2017-12-05 17:46:39

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 67.891 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 67.891 ms
Loss rate: 1.12%
```

Run 9: Report of Sprout — Data Link



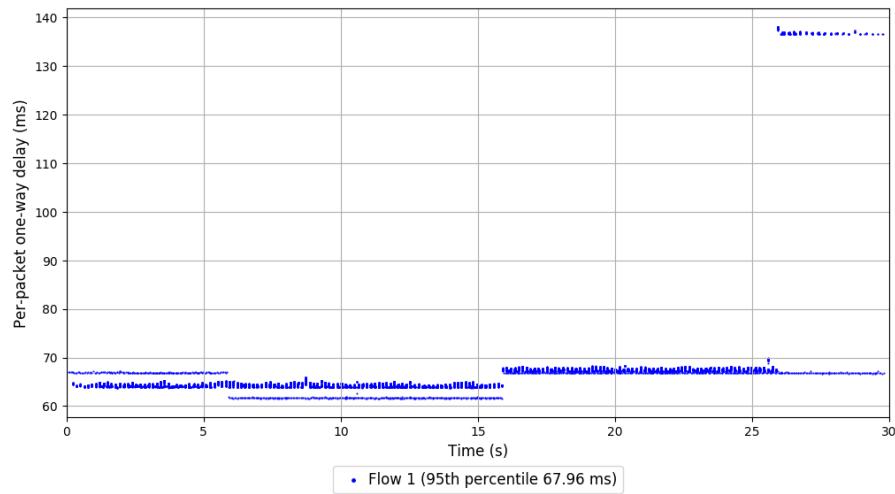
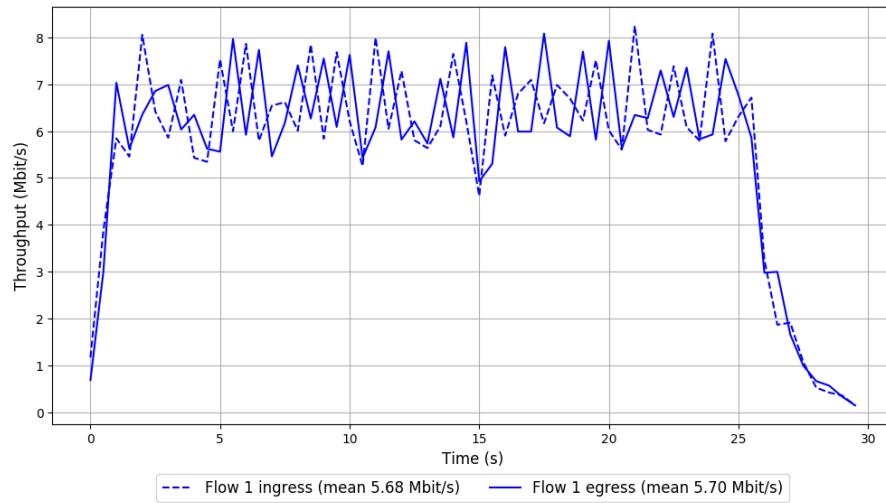
Run 10: Statistics of Sprout

Start at: 2017-12-05 17:56:21

End at: 2017-12-05 17:56:51

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.70 Mbit/s
95th percentile per-packet one-way delay: 67.962 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 5.70 Mbit/s
95th percentile per-packet one-way delay: 67.962 ms
Loss rate: 0.02%
```

Run 10: Report of Sprout — Data Link



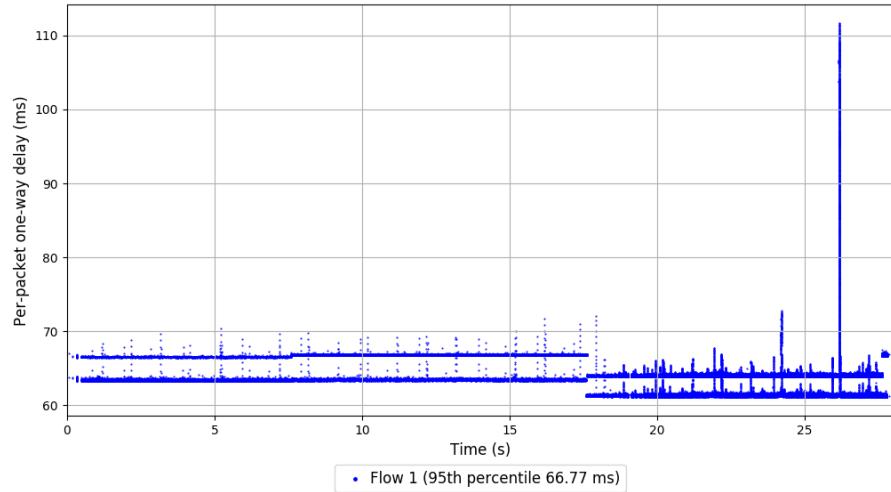
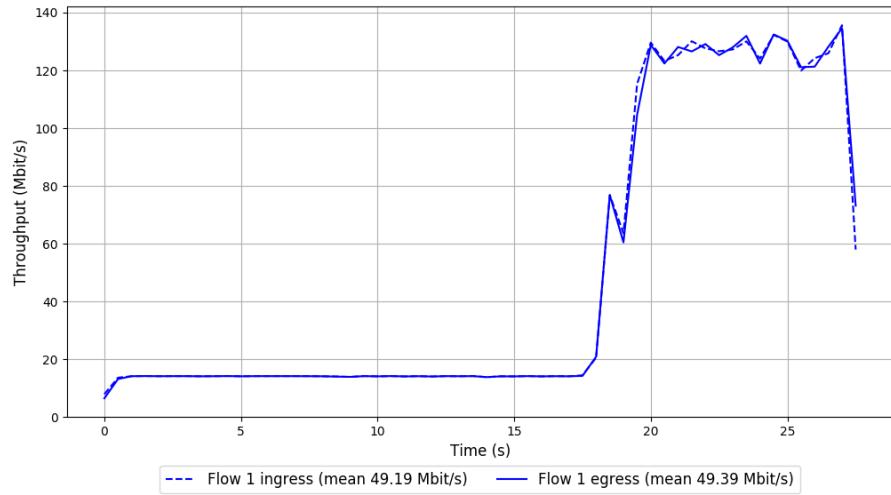
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-05 16:28:37

End at: 2017-12-05 16:29:08

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.39 Mbit/s
95th percentile per-packet one-way delay: 66.774 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 49.39 Mbit/s
95th percentile per-packet one-way delay: 66.774 ms
Loss rate: 0.07%
```

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

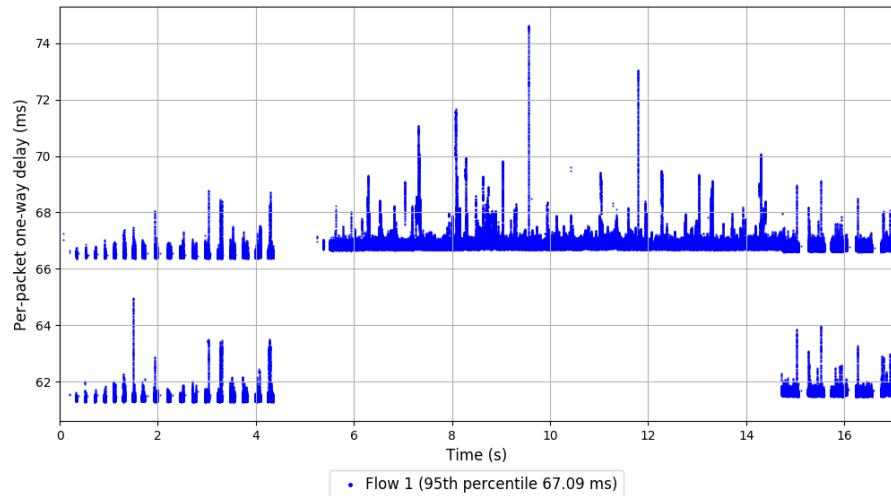
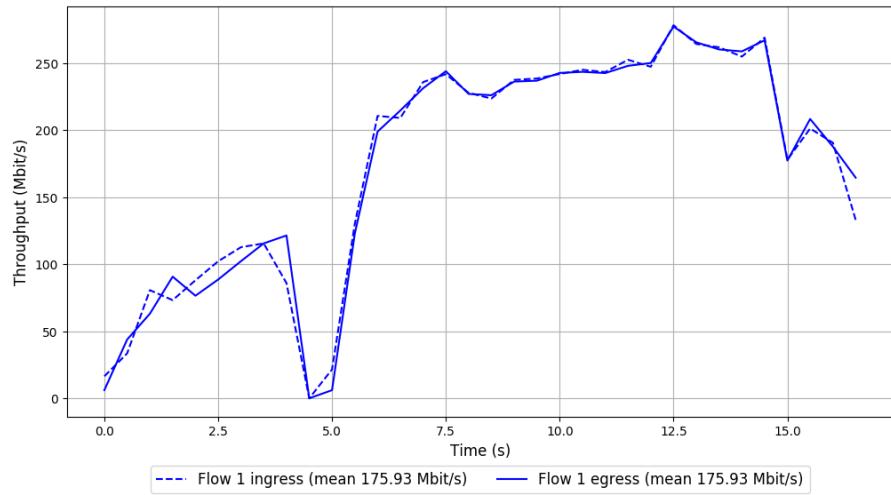


Run 2: Statistics of TaoVA-100x

Start at: 2017-12-05 16:38:50

End at: 2017-12-05 16:39:20

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

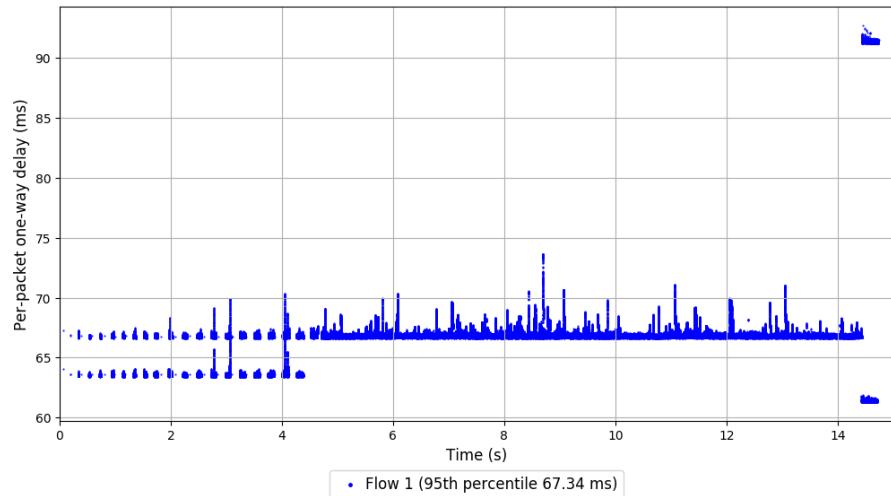
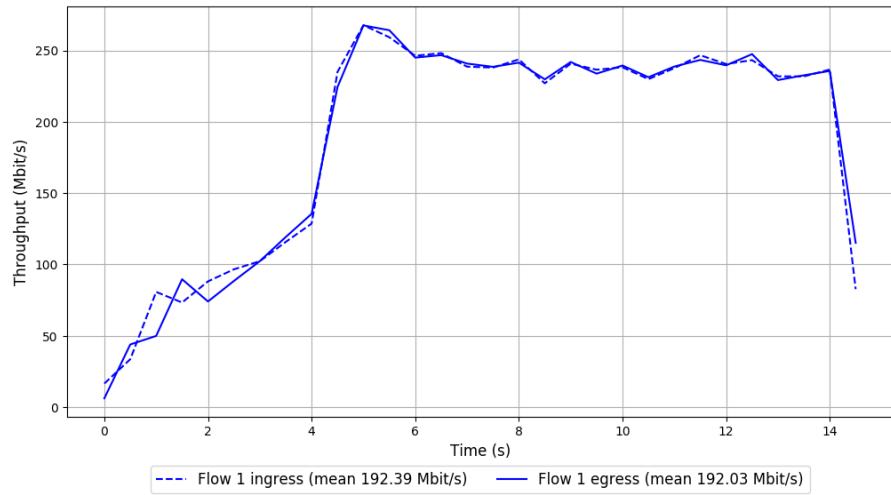


Run 3: Statistics of TaoVA-100x

Start at: 2017-12-05 16:49:21

End at: 2017-12-05 16:49:51

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



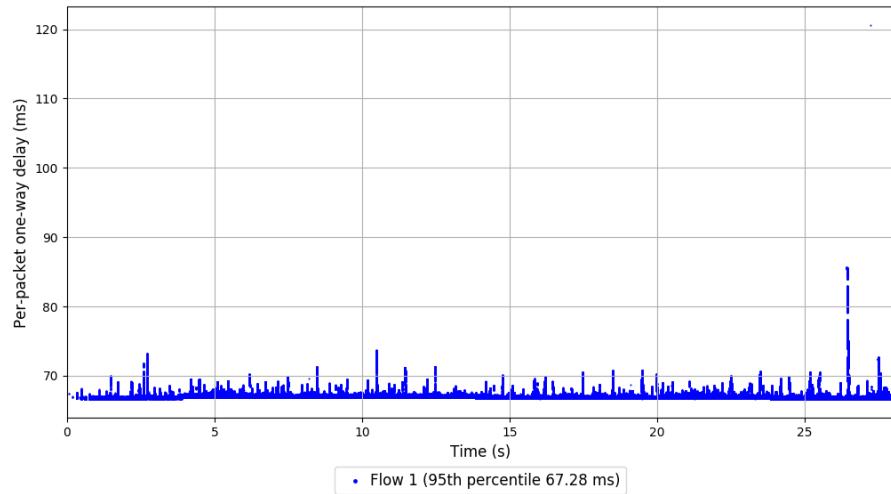
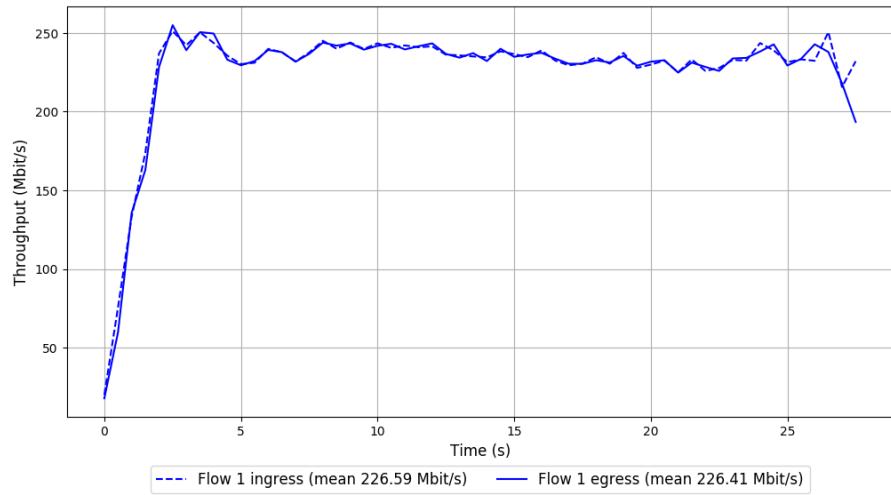
Run 4: Statistics of TaoVA-100x

Start at: 2017-12-05 16:59:31

End at: 2017-12-05 17:00:01

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.41 Mbit/s
95th percentile per-packet one-way delay: 67.283 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 226.41 Mbit/s
95th percentile per-packet one-way delay: 67.283 ms
Loss rate: 0.56%
```

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



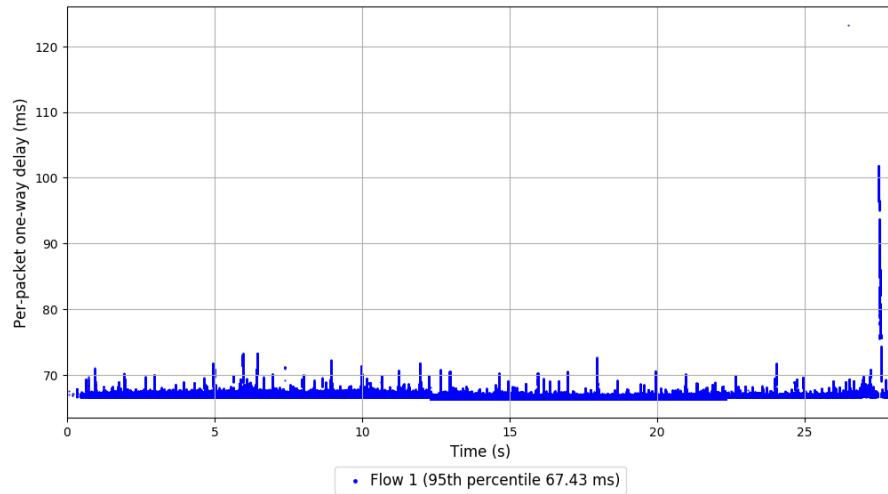
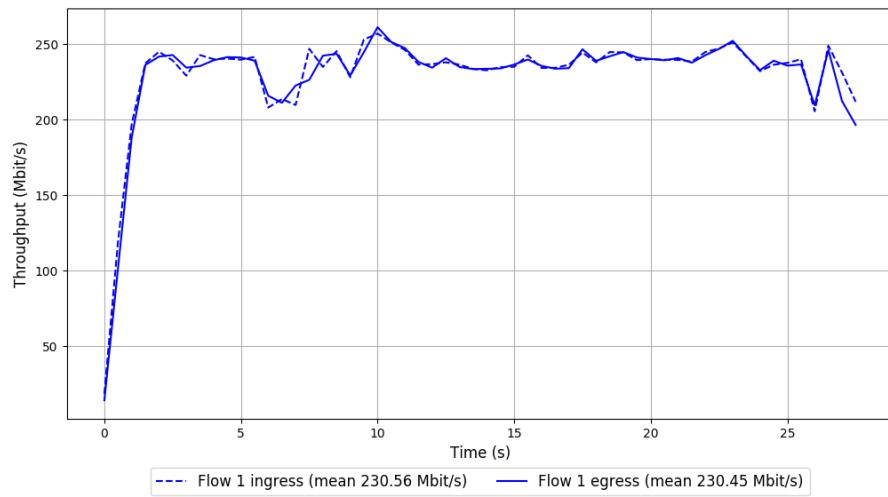
Run 5: Statistics of TaoVA-100x

Start at: 2017-12-05 17:09:53

End at: 2017-12-05 17:10:23

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.45 Mbit/s
95th percentile per-packet one-way delay: 67.429 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 230.45 Mbit/s
95th percentile per-packet one-way delay: 67.429 ms
Loss rate: 0.53%
```

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



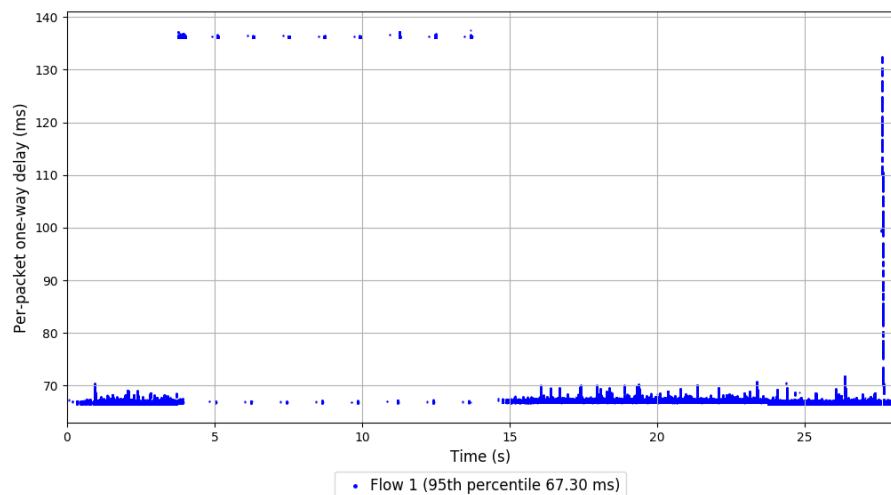
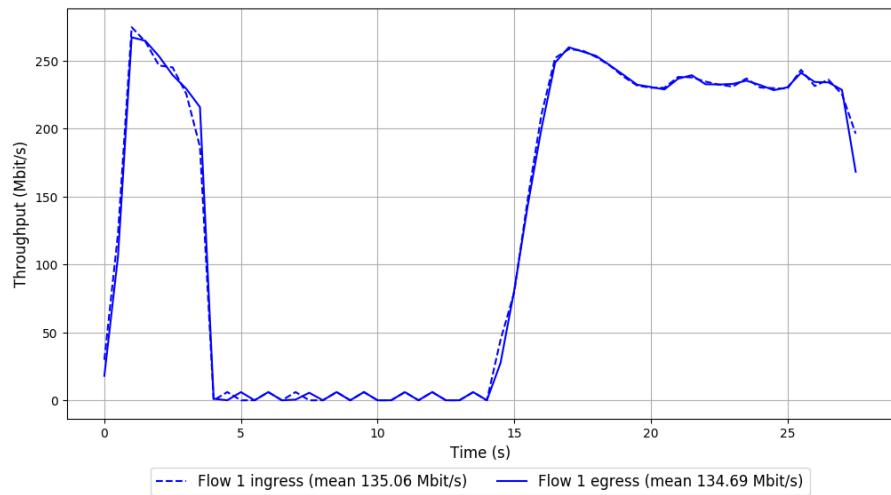
Run 6: Statistics of TaoVA-100x

Start at: 2017-12-05 17:20:21

End at: 2017-12-05 17:20:51

```
# Below is generated by plot.py at 2017-12-05 20:16:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.69 Mbit/s
95th percentile per-packet one-way delay: 67.296 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 134.69 Mbit/s
95th percentile per-packet one-way delay: 67.296 ms
Loss rate: 0.75%
```

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



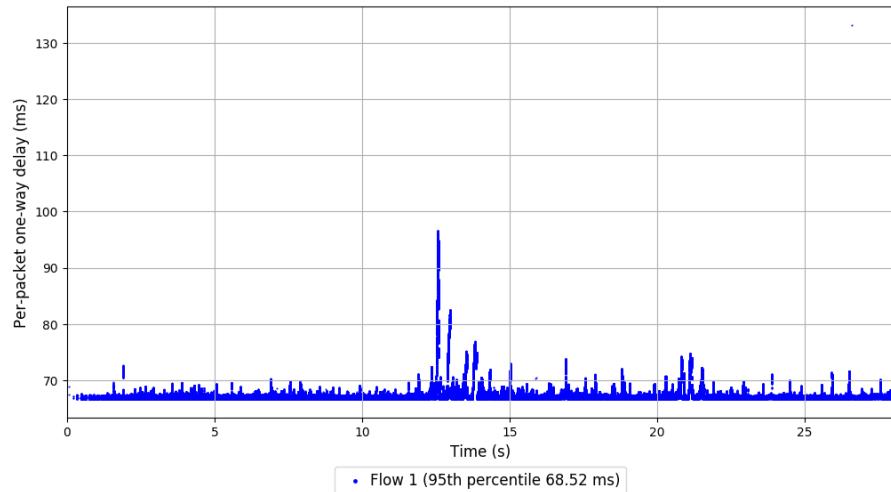
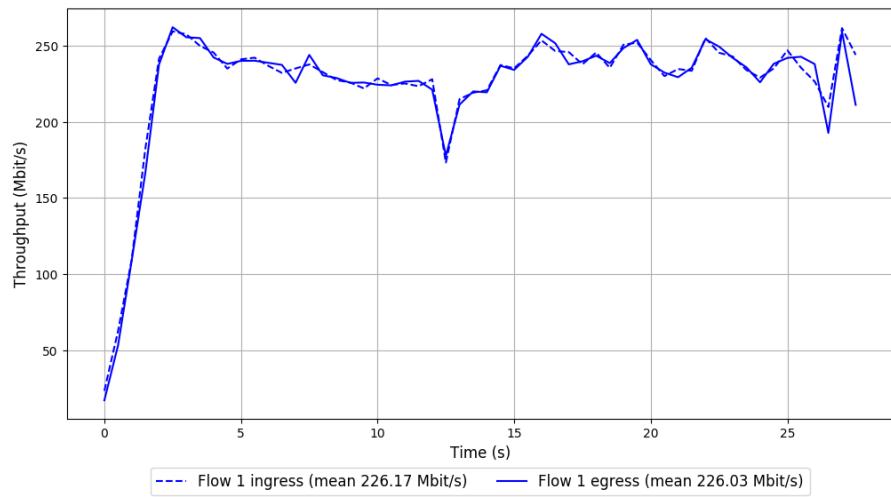
Run 7: Statistics of TaoVA-100x

Start at: 2017-12-05 17:30:38

End at: 2017-12-05 17:31:08

```
# Below is generated by plot.py at 2017-12-05 20:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.03 Mbit/s
95th percentile per-packet one-way delay: 68.522 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 226.03 Mbit/s
95th percentile per-packet one-way delay: 68.522 ms
Loss rate: 0.54%
```

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



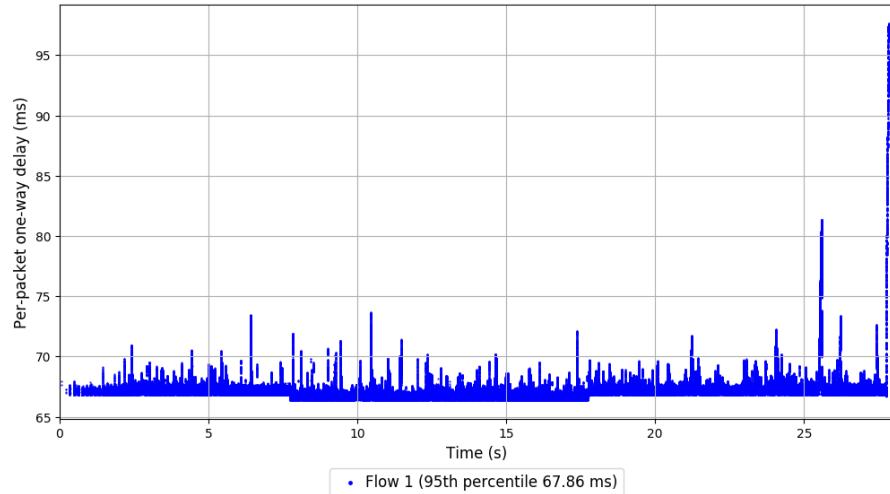
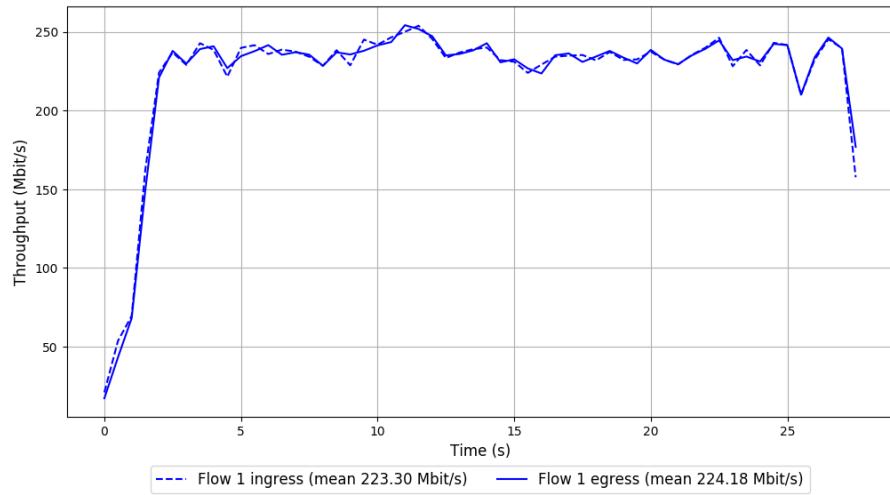
Run 8: Statistics of TaoVA-100x

Start at: 2017-12-05 17:41:27

End at: 2017-12-05 17:41:57

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.18 Mbit/s
95th percentile per-packet one-way delay: 67.862 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 224.18 Mbit/s
95th percentile per-packet one-way delay: 67.862 ms
Loss rate: 0.09%
```

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



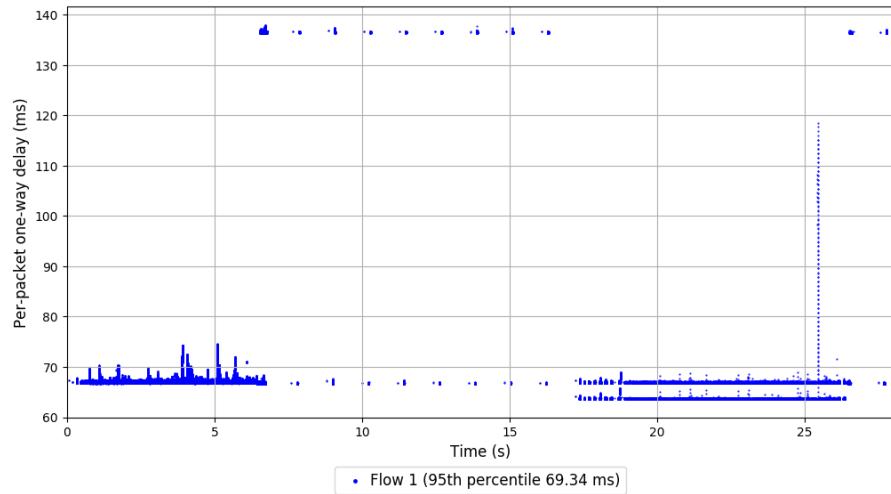
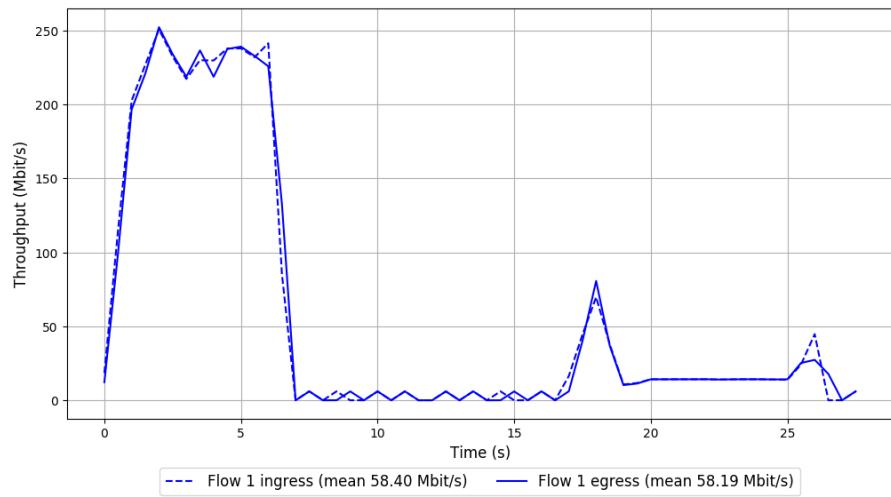
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-05 17:51:59

End at: 2017-12-05 17:52:29

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 69.342 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 58.19 Mbit/s
95th percentile per-packet one-way delay: 69.342 ms
Loss rate: 0.12%
```

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



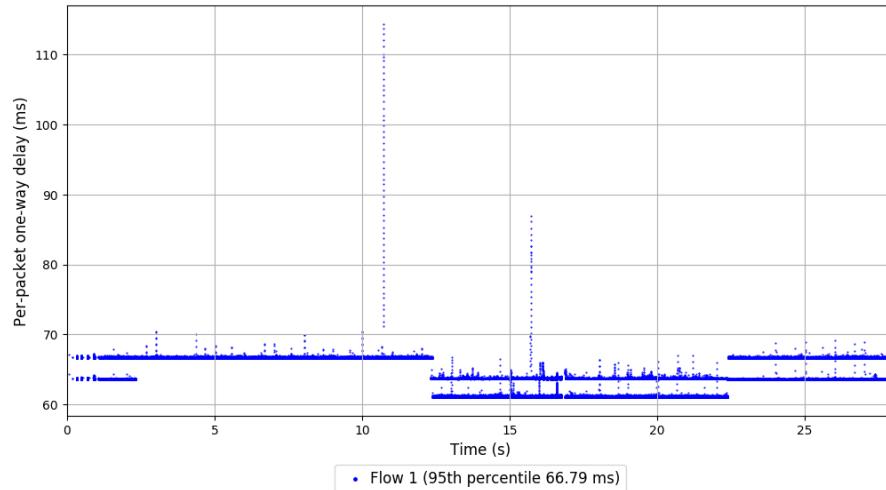
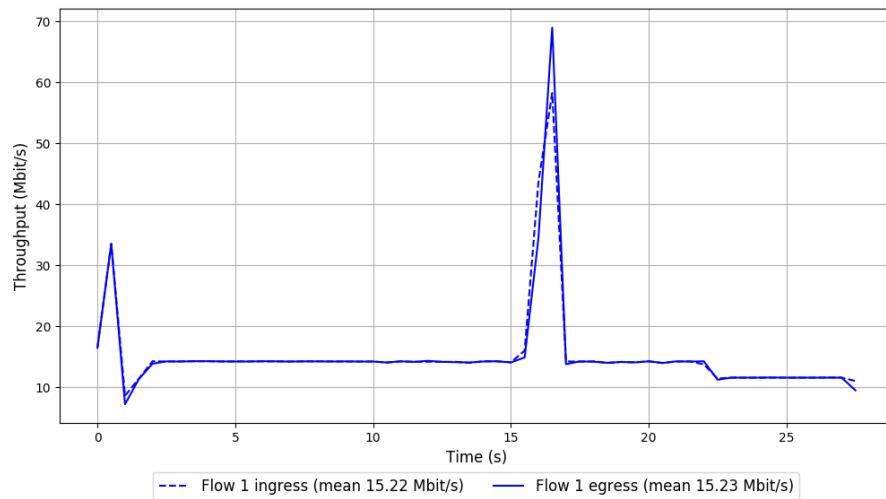
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-05 18:02:23

End at: 2017-12-05 18:02:53

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.23 Mbit/s
95th percentile per-packet one-way delay: 66.792 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 15.23 Mbit/s
95th percentile per-packet one-way delay: 66.792 ms
Loss rate: 0.35%
```

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



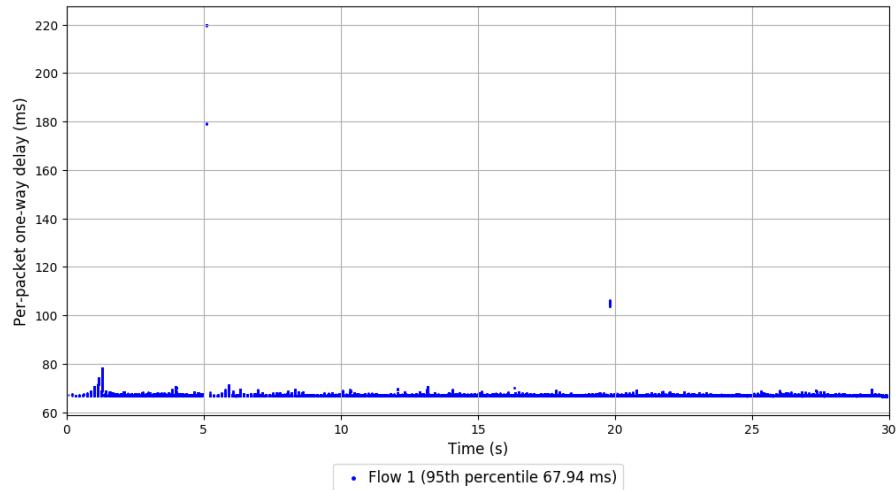
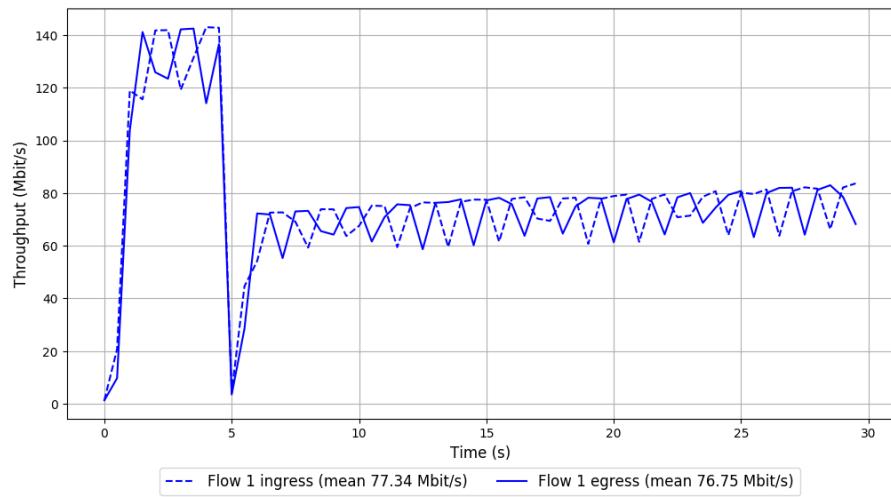
Run 1: Statistics of TCP Vegas

Start at: 2017-12-05 16:27:17

End at: 2017-12-05 16:27:47

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 67.944 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 67.944 ms
Loss rate: 1.21%
```

Run 1: Report of TCP Vegas — Data Link

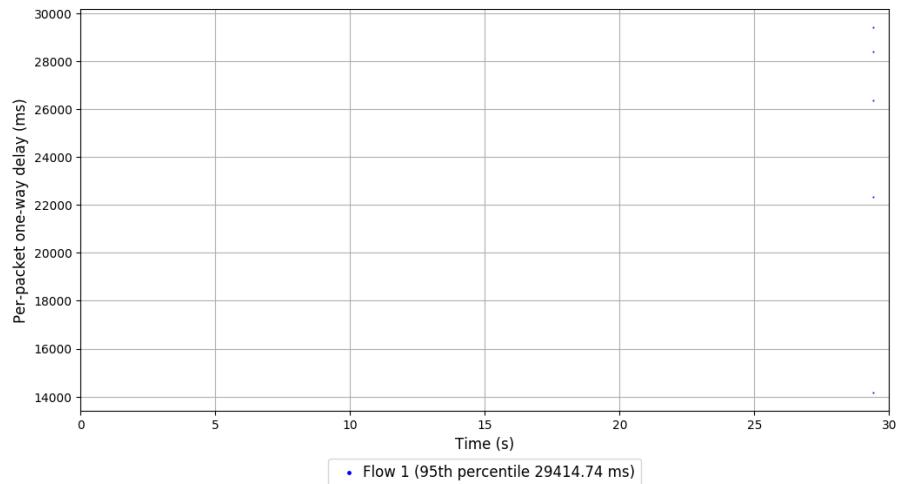
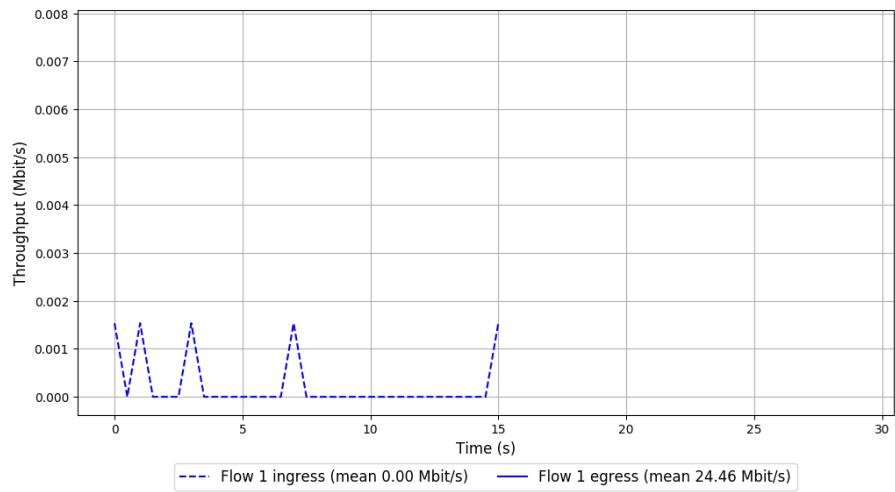


Run 2: Statistics of TCP Vegas

Start at: 2017-12-05 16:37:35

End at: 2017-12-05 16:38:05

Run 2: Report of TCP Vegas — Data Link



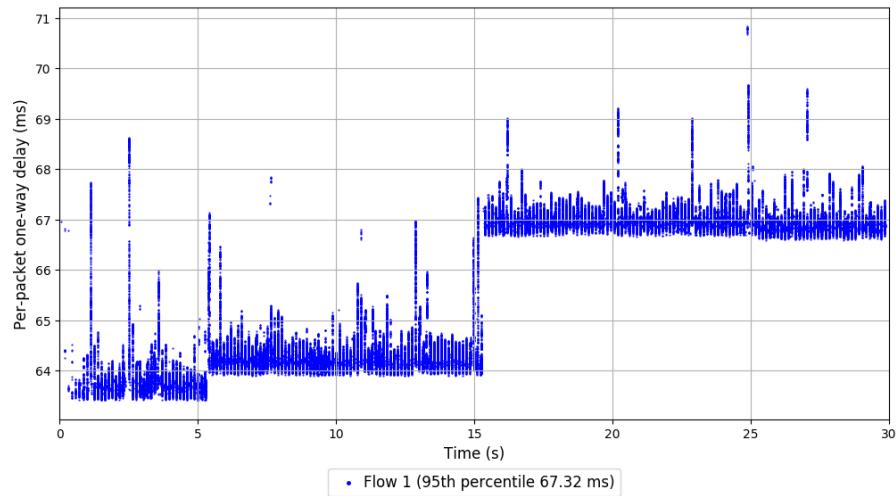
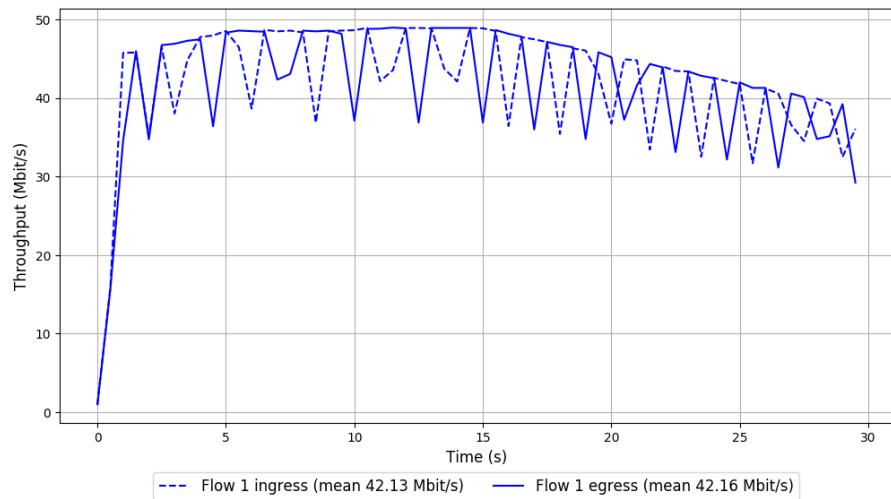
Run 3: Statistics of TCP Vegas

Start at: 2017-12-05 16:48:02

End at: 2017-12-05 16:48:32

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.16 Mbit/s
95th percentile per-packet one-way delay: 67.319 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 42.16 Mbit/s
95th percentile per-packet one-way delay: 67.319 ms
Loss rate: 0.38%
```

Run 3: Report of TCP Vegas — Data Link



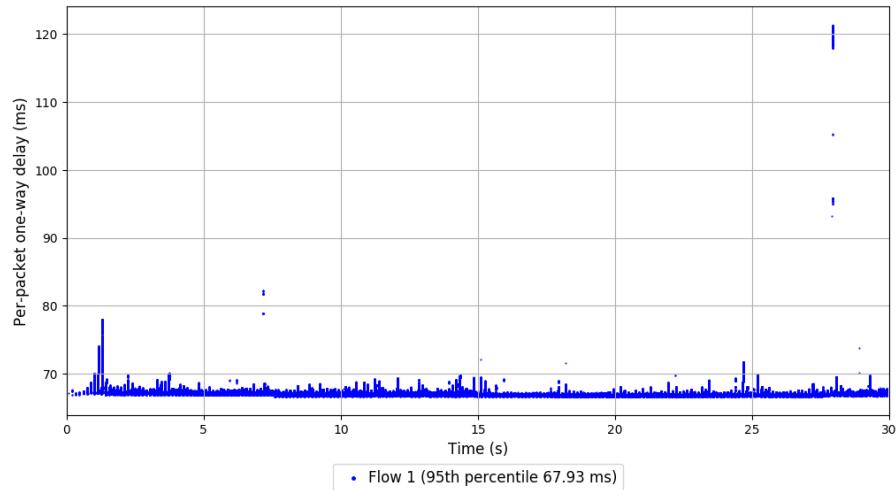
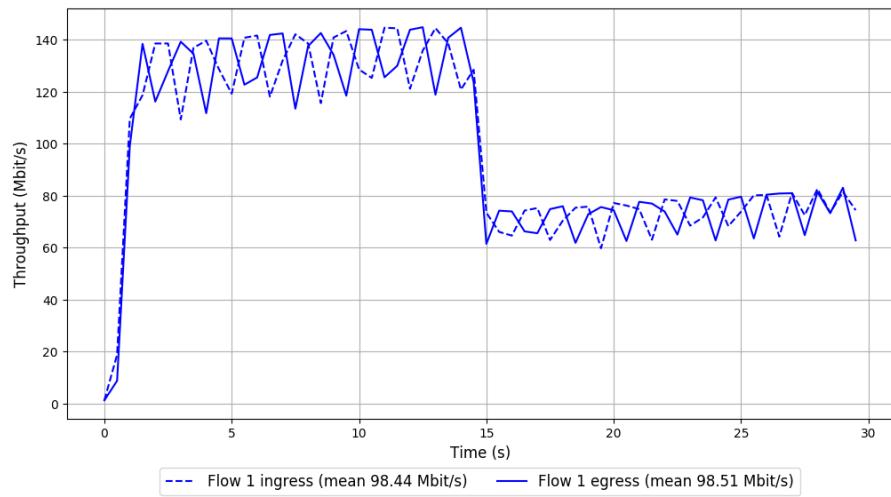
Run 4: Statistics of TCP Vegas

Start at: 2017-12-05 16:58:10

End at: 2017-12-05 16:58:40

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.51 Mbit/s
95th percentile per-packet one-way delay: 67.933 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 98.51 Mbit/s
95th percentile per-packet one-way delay: 67.933 ms
Loss rate: 0.38%
```

Run 4: Report of TCP Vegas — Data Link

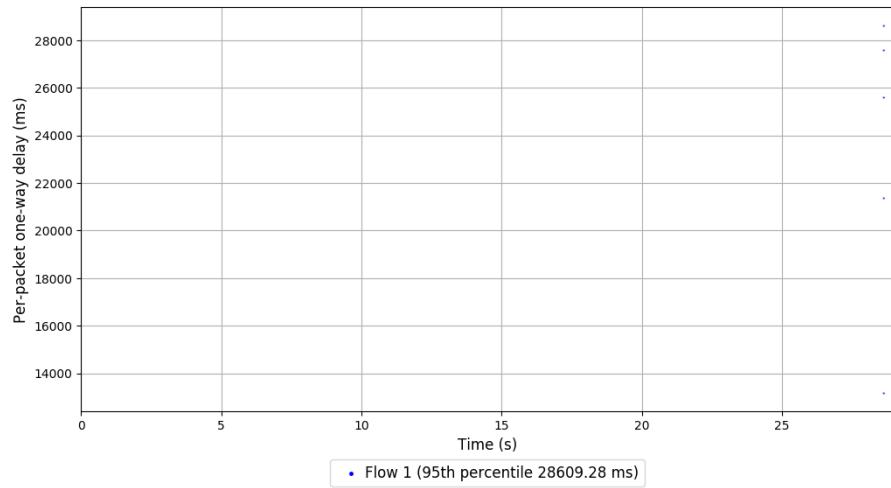
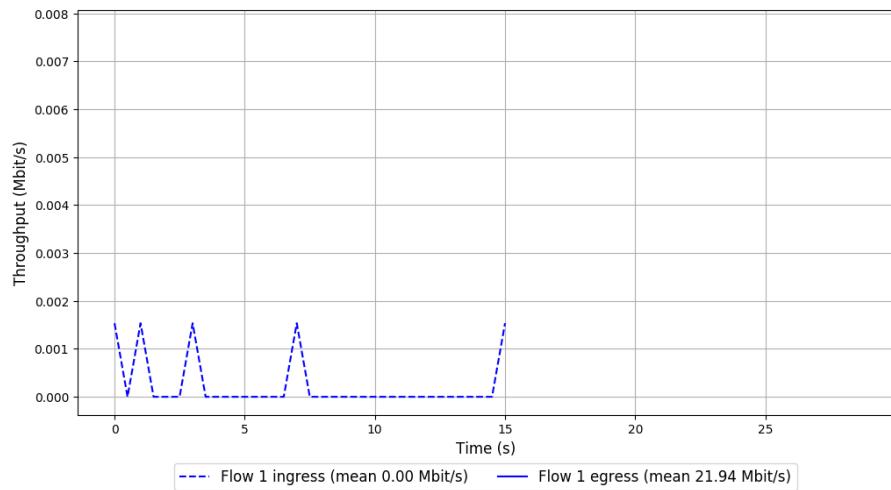


Run 5: Statistics of TCP Vegas

Start at: 2017-12-05 17:08:37

End at: 2017-12-05 17:09:07

Run 5: Report of TCP Vegas — Data Link



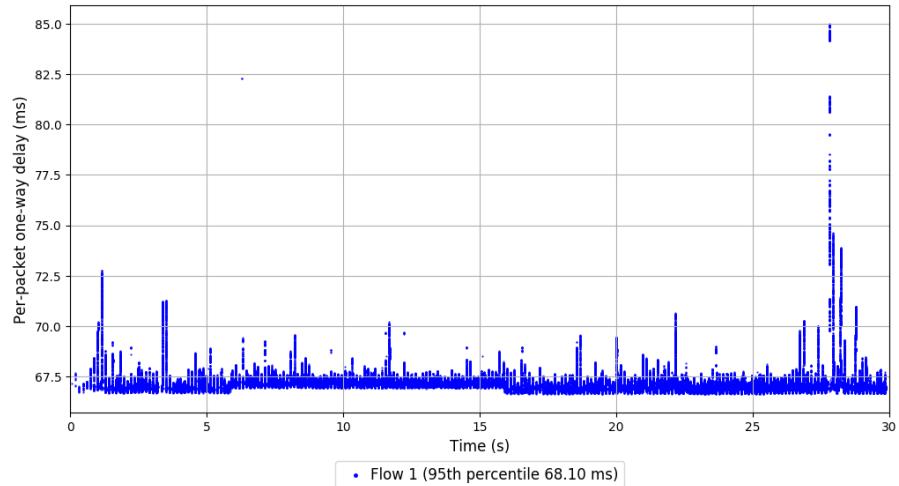
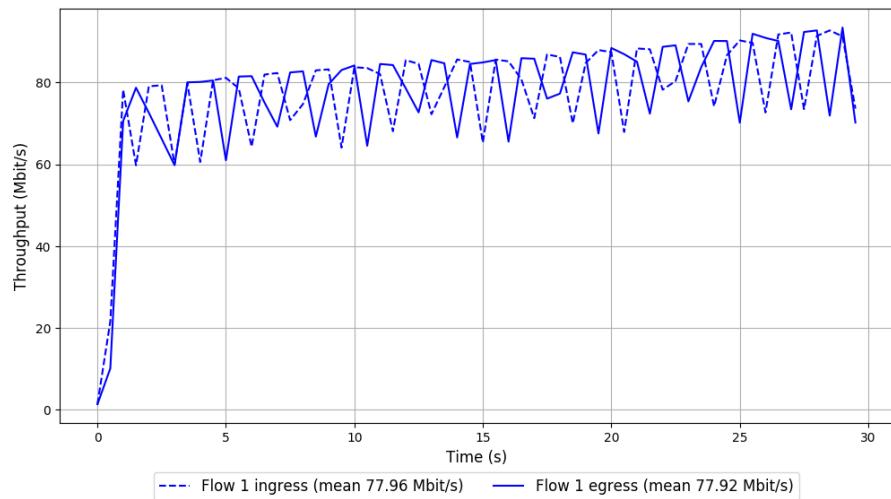
Run 6: Statistics of TCP Vegas

Start at: 2017-12-05 17:19:01

End at: 2017-12-05 17:19:31

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 68.096 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 77.92 Mbit/s
95th percentile per-packet one-way delay: 68.096 ms
Loss rate: 0.51%
```

Run 6: Report of TCP Vegas — Data Link



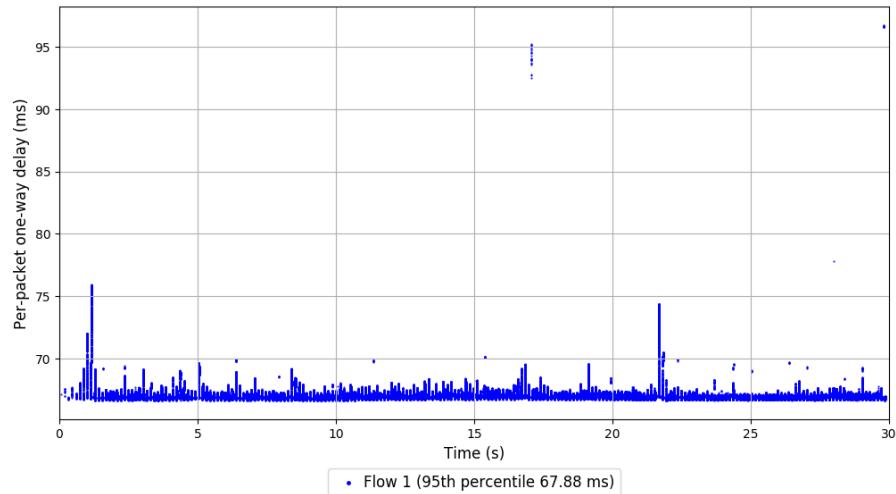
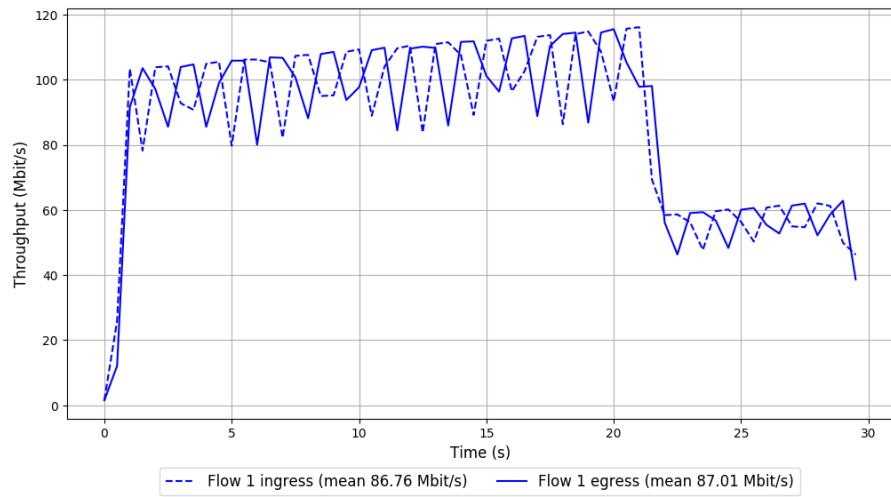
Run 7: Statistics of TCP Vegas

Start at: 2017-12-05 17:29:16

End at: 2017-12-05 17:29:46

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.01 Mbit/s
95th percentile per-packet one-way delay: 67.879 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 87.01 Mbit/s
95th percentile per-packet one-way delay: 67.879 ms
Loss rate: 0.16%
```

Run 7: Report of TCP Vegas — Data Link



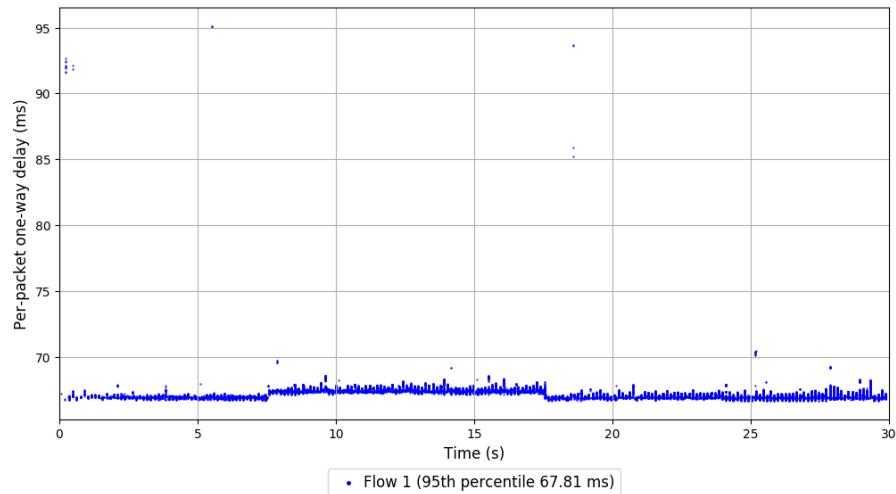
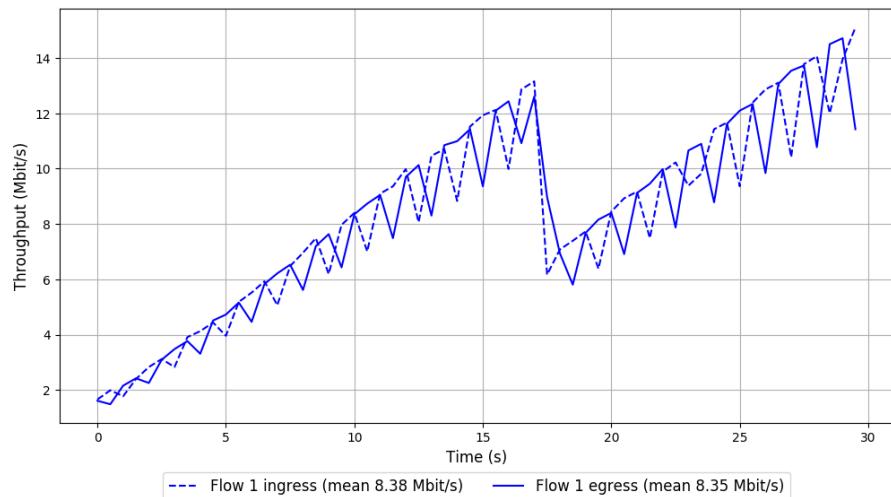
Run 8: Statistics of TCP Vegas

Start at: 2017-12-05 17:40:10

End at: 2017-12-05 17:40:40

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 67.806 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 67.806 ms
Loss rate: 0.78%
```

Run 8: Report of TCP Vegas — Data Link

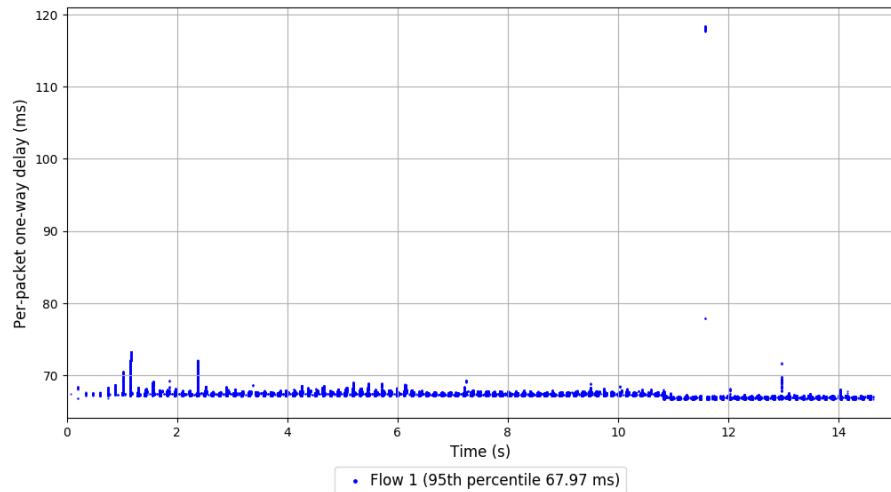
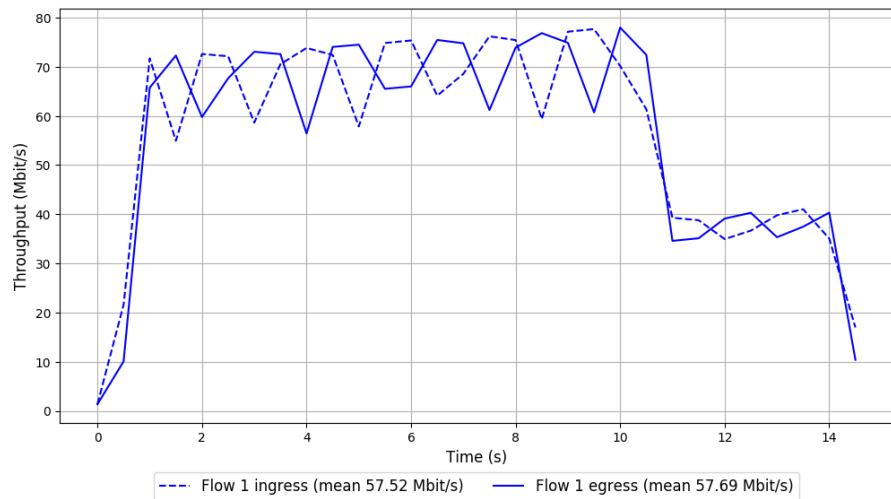


Run 9: Statistics of TCP Vegas

Start at: 2017-12-05 17:50:41

End at: 2017-12-05 17:51:11

Run 9: Report of TCP Vegas — Data Link



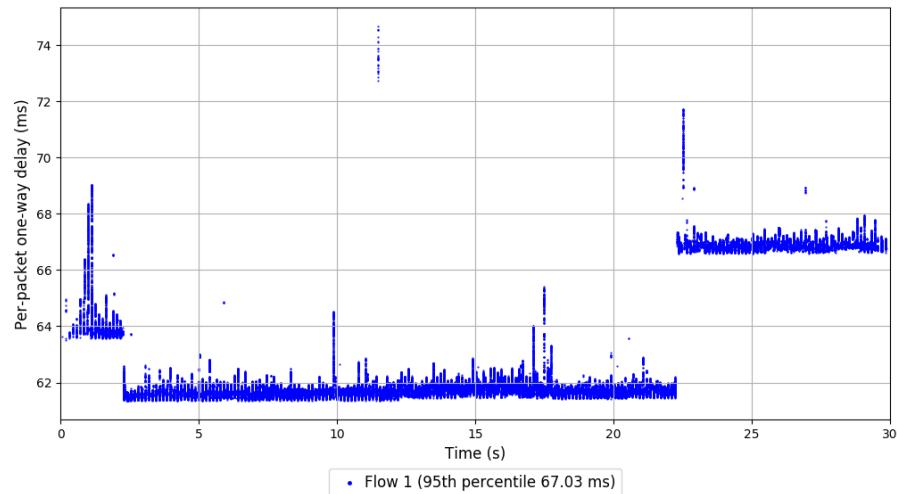
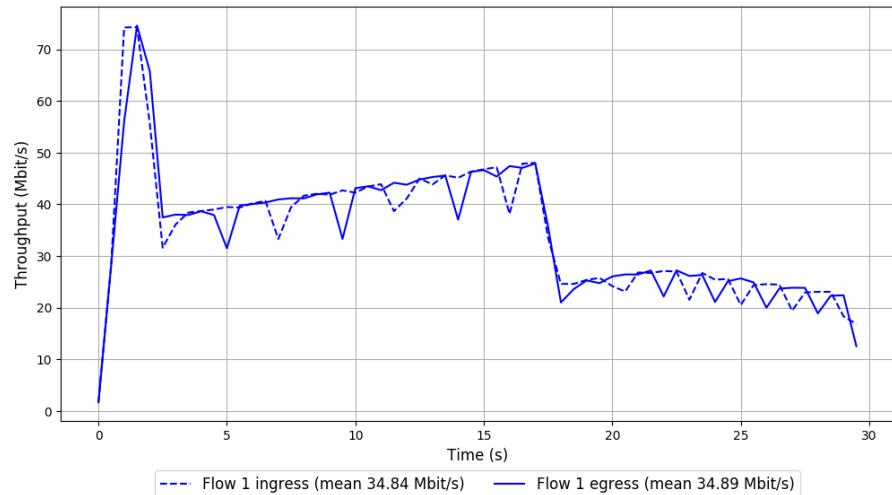
Run 10: Statistics of TCP Vegas

Start at: 2017-12-05 18:01:05

End at: 2017-12-05 18:01:35

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 67.033 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 34.89 Mbit/s
95th percentile per-packet one-way delay: 67.033 ms
Loss rate: 0.27%
```

Run 10: Report of TCP Vegas — Data Link



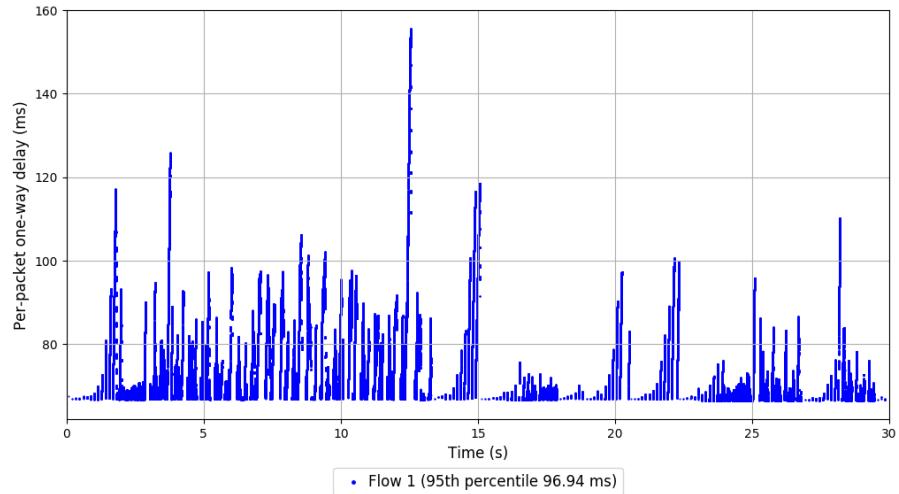
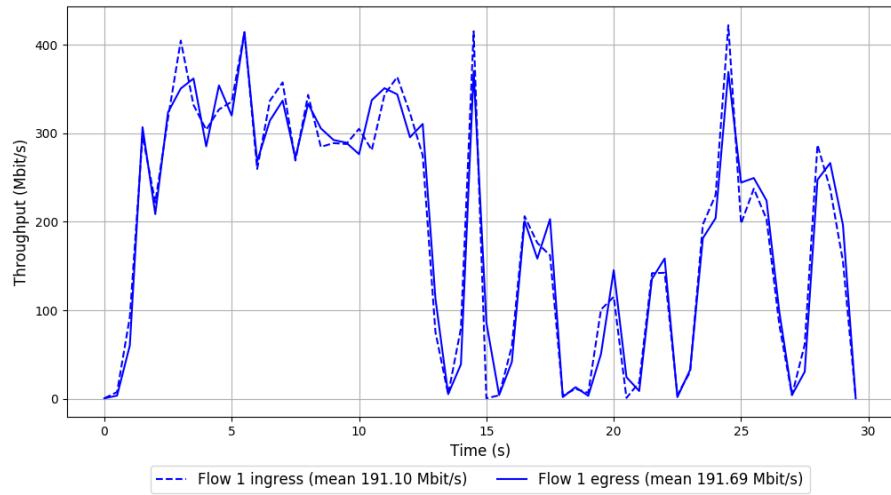
Run 1: Statistics of Verus

Start at: 2017-12-05 16:25:24

End at: 2017-12-05 16:25:54

```
# Below is generated by plot.py at 2017-12-05 20:19:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 191.69 Mbit/s
95th percentile per-packet one-way delay: 96.936 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 191.69 Mbit/s
95th percentile per-packet one-way delay: 96.936 ms
Loss rate: 0.16%
```

Run 1: Report of Verus — Data Link



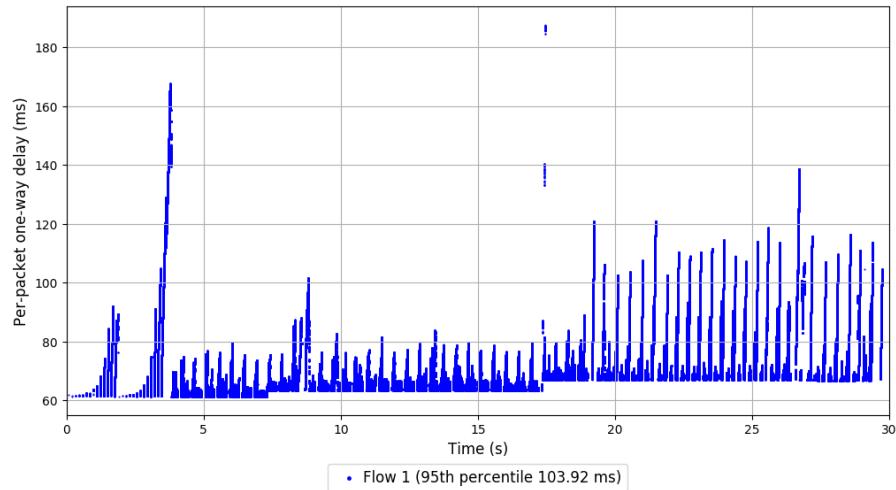
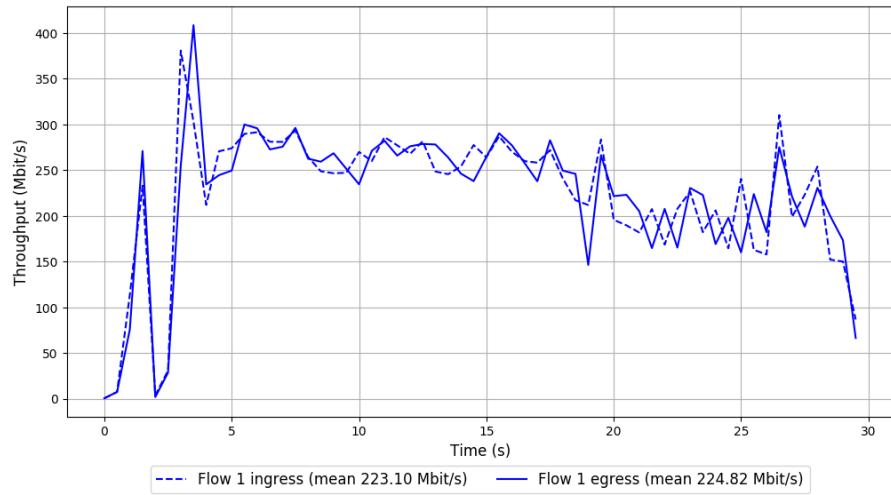
Run 2: Statistics of Verus

Start at: 2017-12-05 16:35:40

End at: 2017-12-05 16:36:10

```
# Below is generated by plot.py at 2017-12-05 20:19:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.82 Mbit/s
95th percentile per-packet one-way delay: 103.916 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 224.82 Mbit/s
95th percentile per-packet one-way delay: 103.916 ms
Loss rate: 0.23%
```

Run 2: Report of Verus — Data Link



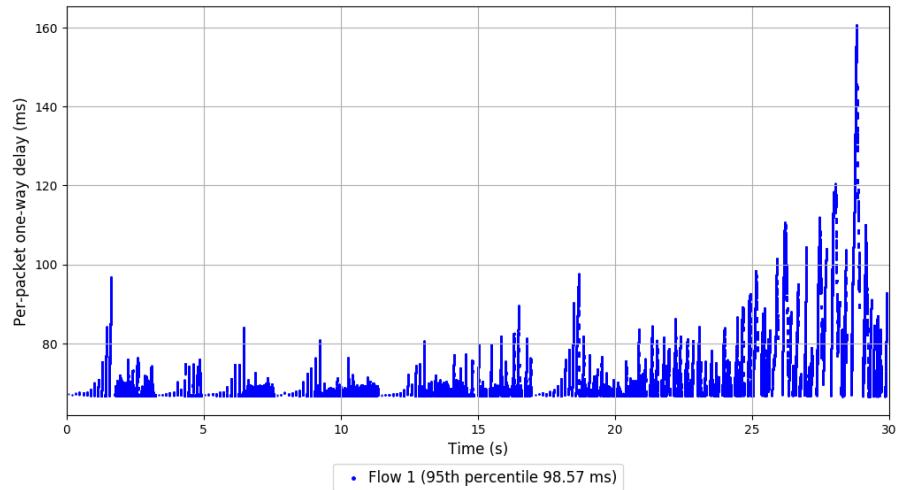
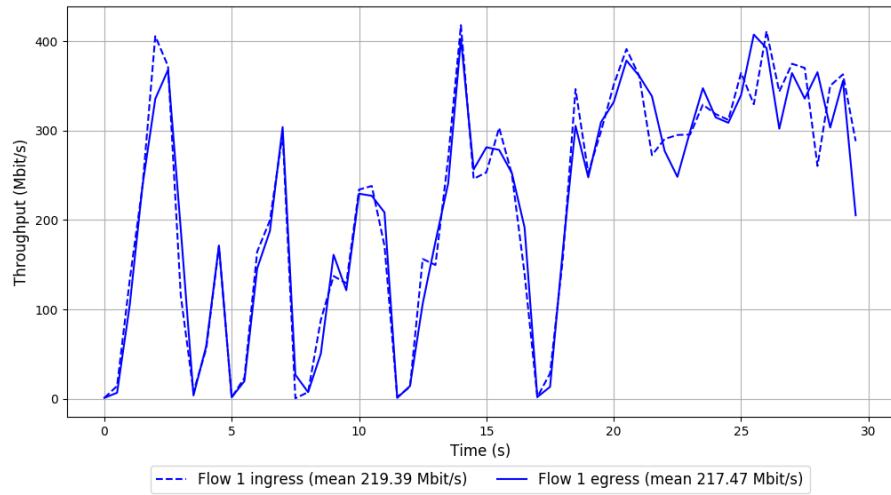
Run 3: Statistics of Verus

Start at: 2017-12-05 16:46:09

End at: 2017-12-05 16:46:39

```
# Below is generated by plot.py at 2017-12-05 20:19:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.47 Mbit/s
95th percentile per-packet one-way delay: 98.574 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 217.47 Mbit/s
95th percentile per-packet one-way delay: 98.574 ms
Loss rate: 1.31%
```

Run 3: Report of Verus — Data Link



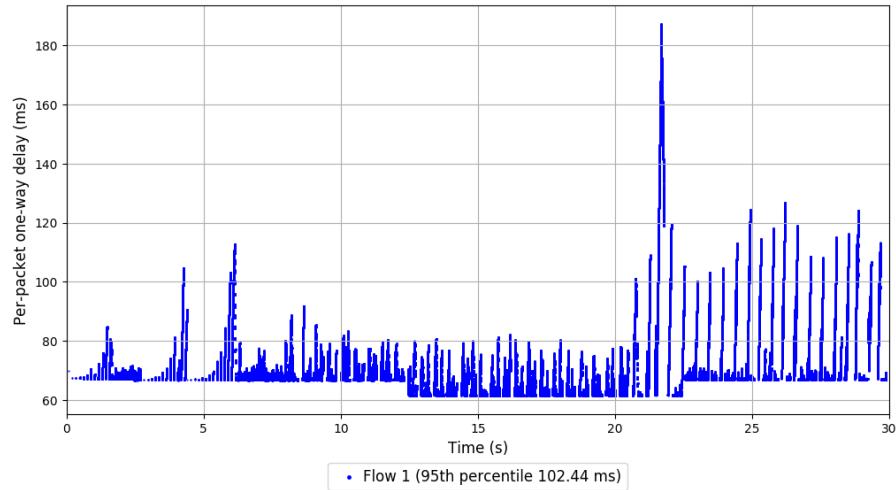
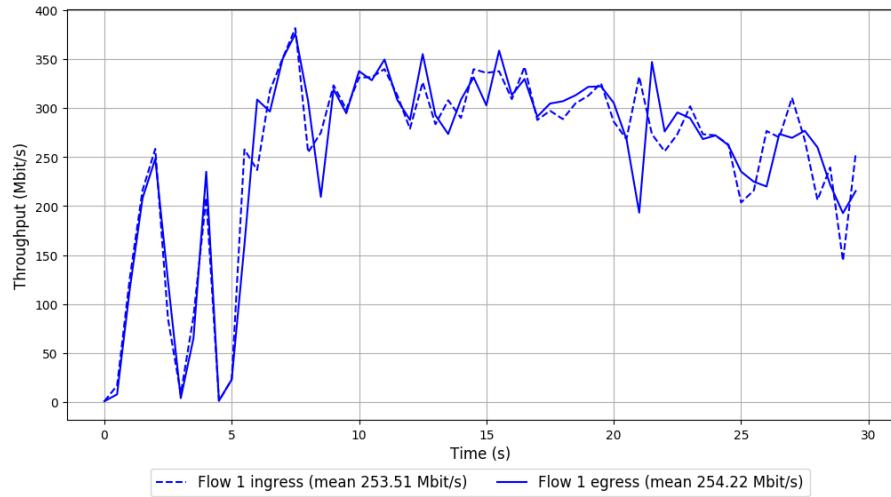
Run 4: Statistics of Verus

Start at: 2017-12-05 16:56:25

End at: 2017-12-05 16:56:55

```
# Below is generated by plot.py at 2017-12-05 20:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.22 Mbit/s
95th percentile per-packet one-way delay: 102.436 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 254.22 Mbit/s
95th percentile per-packet one-way delay: 102.436 ms
Loss rate: 0.25%
```

Run 4: Report of Verus — Data Link



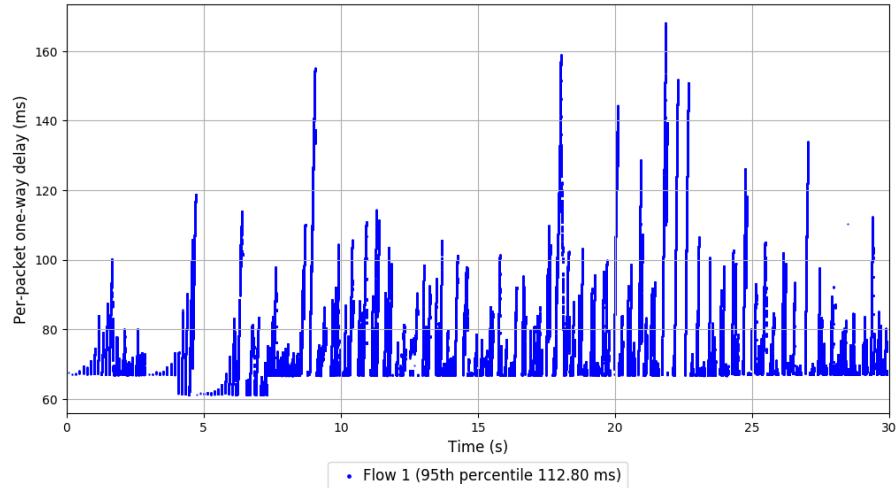
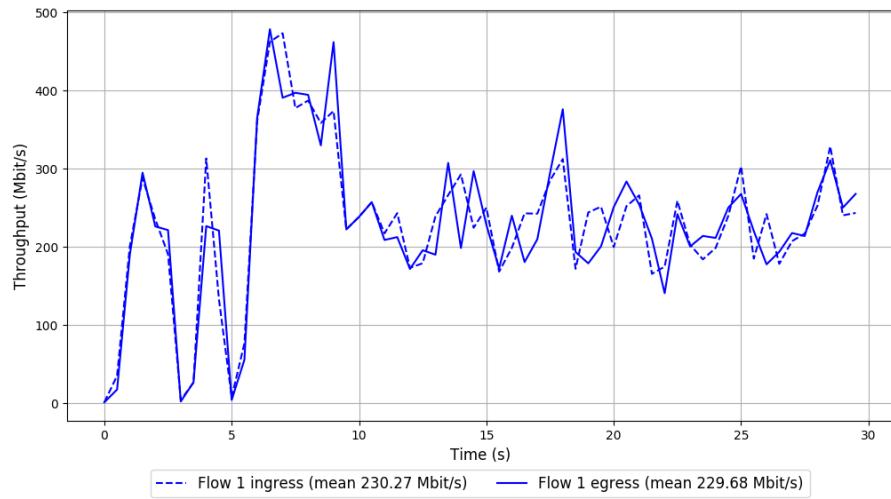
Run 5: Statistics of Verus

Start at: 2017-12-05 17:06:43

End at: 2017-12-05 17:07:13

```
# Below is generated by plot.py at 2017-12-05 20:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.68 Mbit/s
95th percentile per-packet one-way delay: 112.798 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 229.68 Mbit/s
95th percentile per-packet one-way delay: 112.798 ms
Loss rate: 0.28%
```

Run 5: Report of Verus — Data Link



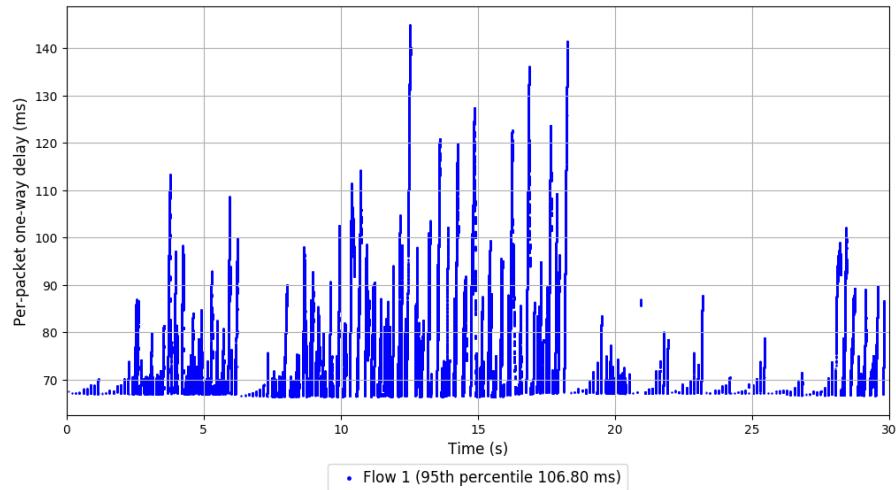
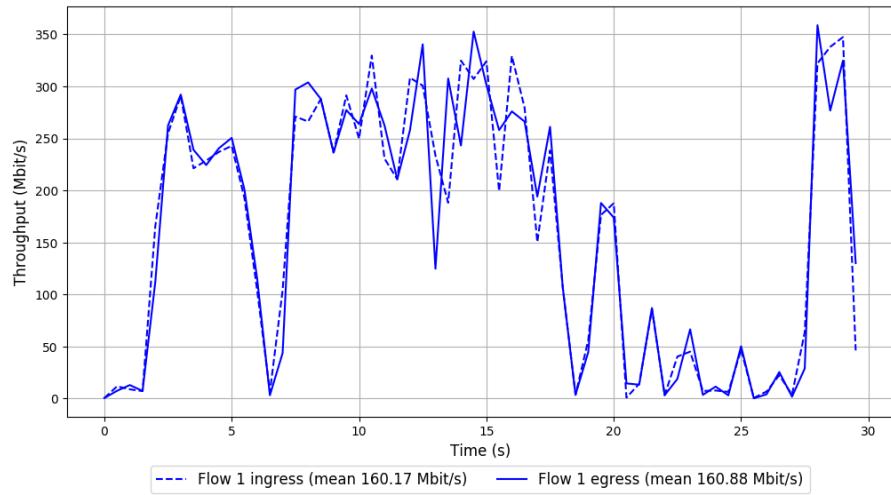
Run 6: Statistics of Verus

Start at: 2017-12-05 17:17:11

End at: 2017-12-05 17:17:41

```
# Below is generated by plot.py at 2017-12-05 20:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 160.88 Mbit/s
95th percentile per-packet one-way delay: 106.796 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 160.88 Mbit/s
95th percentile per-packet one-way delay: 106.796 ms
Loss rate: 0.01%
```

Run 6: Report of Verus — Data Link



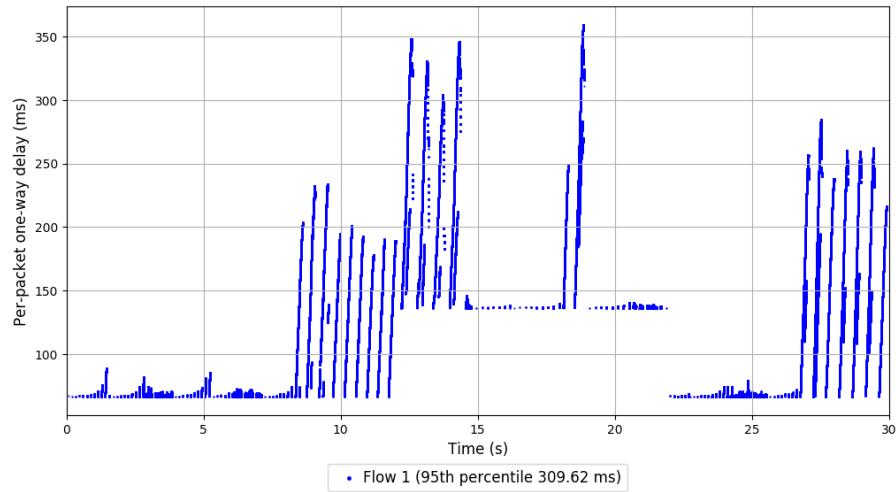
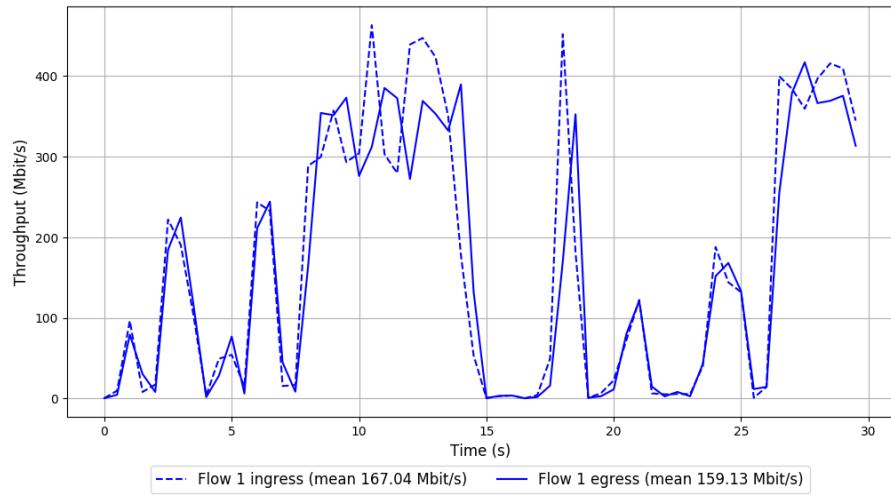
Run 7: Statistics of Verus

Start at: 2017-12-05 17:27:25

End at: 2017-12-05 17:27:55

```
# Below is generated by plot.py at 2017-12-05 20:20:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.13 Mbit/s
95th percentile per-packet one-way delay: 309.625 ms
Loss rate: 4.34%
-- Flow 1:
Average throughput: 159.13 Mbit/s
95th percentile per-packet one-way delay: 309.625 ms
Loss rate: 4.34%
```

Run 7: Report of Verus — Data Link



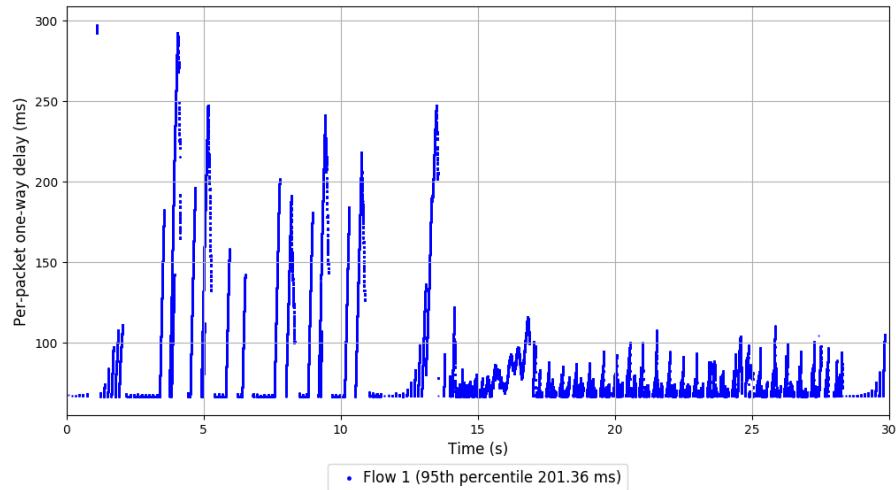
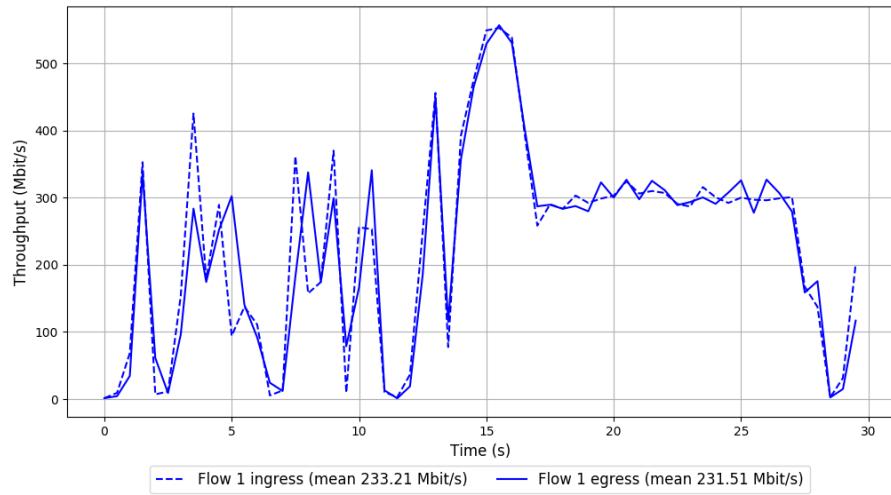
Run 8: Statistics of Verus

Start at: 2017-12-05 17:38:06

End at: 2017-12-05 17:38:36

```
# Below is generated by plot.py at 2017-12-05 20:23:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.51 Mbit/s
95th percentile per-packet one-way delay: 201.358 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 231.51 Mbit/s
95th percentile per-packet one-way delay: 201.358 ms
Loss rate: 1.20%
```

Run 8: Report of Verus — Data Link



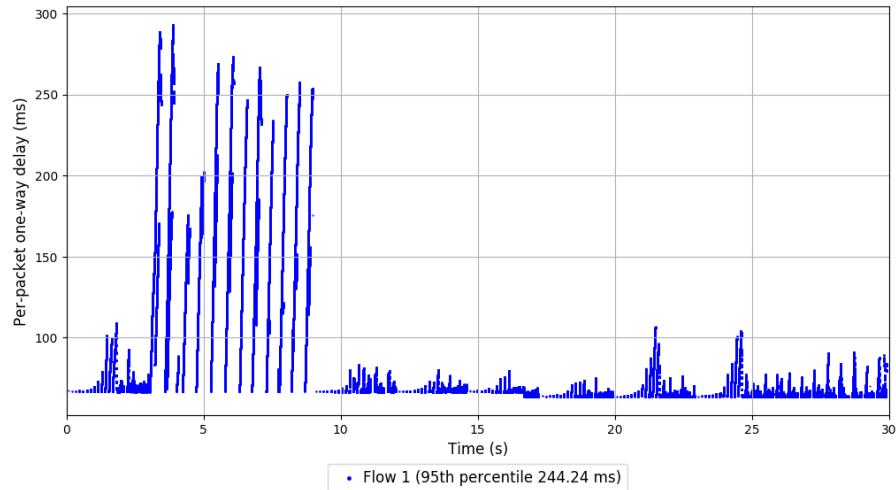
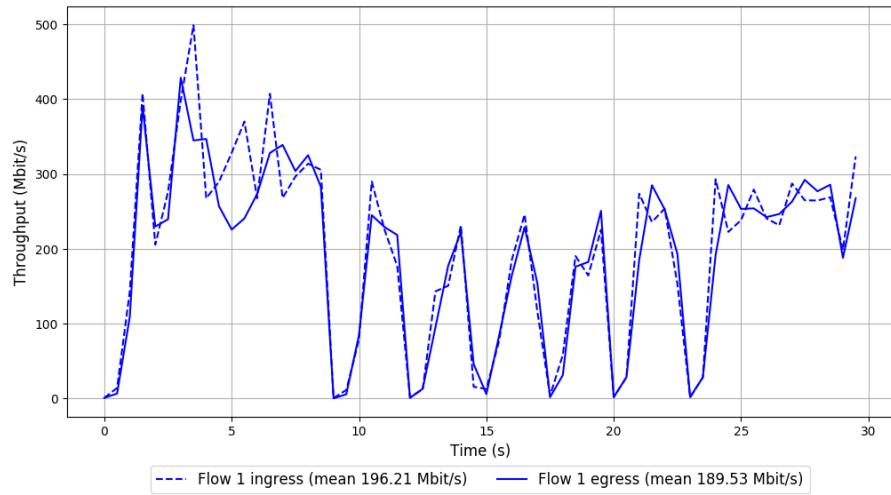
Run 9: Statistics of Verus

Start at: 2017-12-05 17:48:50

End at: 2017-12-05 17:49:20

```
# Below is generated by plot.py at 2017-12-05 20:23:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.53 Mbit/s
95th percentile per-packet one-way delay: 244.242 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 189.53 Mbit/s
95th percentile per-packet one-way delay: 244.242 ms
Loss rate: 3.85%
```

Run 9: Report of Verus — Data Link



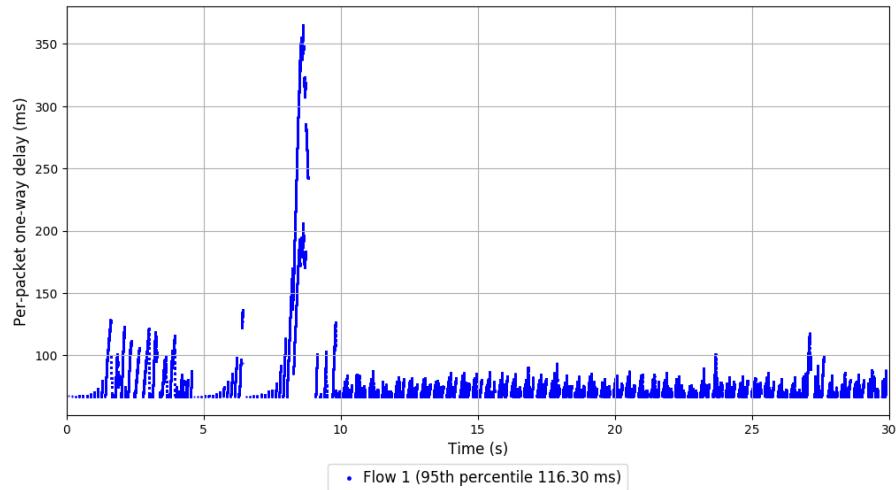
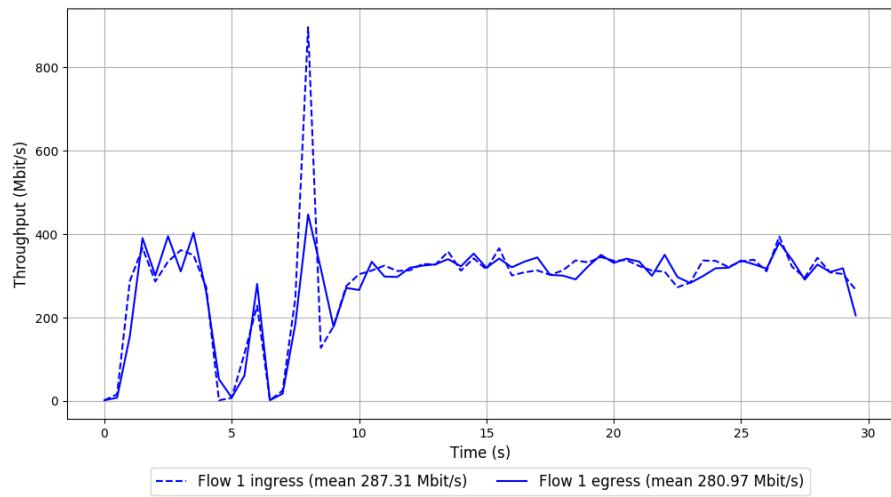
Run 10: Statistics of Verus

Start at: 2017-12-05 17:59:01

End at: 2017-12-05 17:59:31

```
# Below is generated by plot.py at 2017-12-05 20:24:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.97 Mbit/s
95th percentile per-packet one-way delay: 116.296 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 280.97 Mbit/s
95th percentile per-packet one-way delay: 116.296 ms
Loss rate: 2.65%
```

Run 10: Report of Verus — Data Link



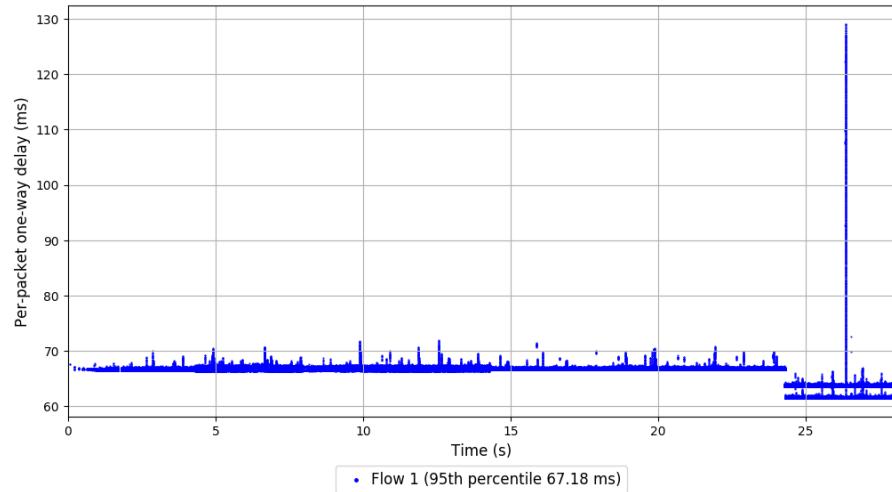
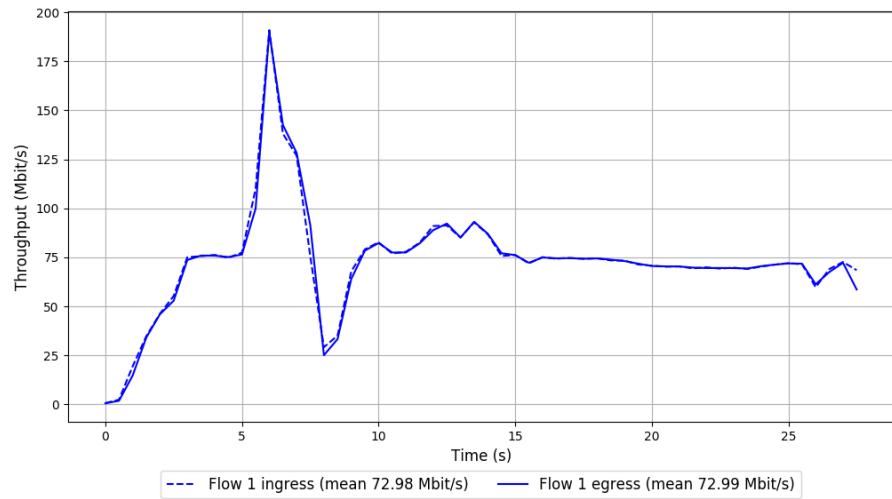
Run 1: Statistics of Copa

Start at: 2017-12-05 16:22:01

End at: 2017-12-05 16:22:31

```
# Below is generated by plot.py at 2017-12-05 20:24:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.99 Mbit/s
95th percentile per-packet one-way delay: 67.176 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 72.99 Mbit/s
95th percentile per-packet one-way delay: 67.176 ms
Loss rate: 0.46%
```

Run 1: Report of Copa — Data Link

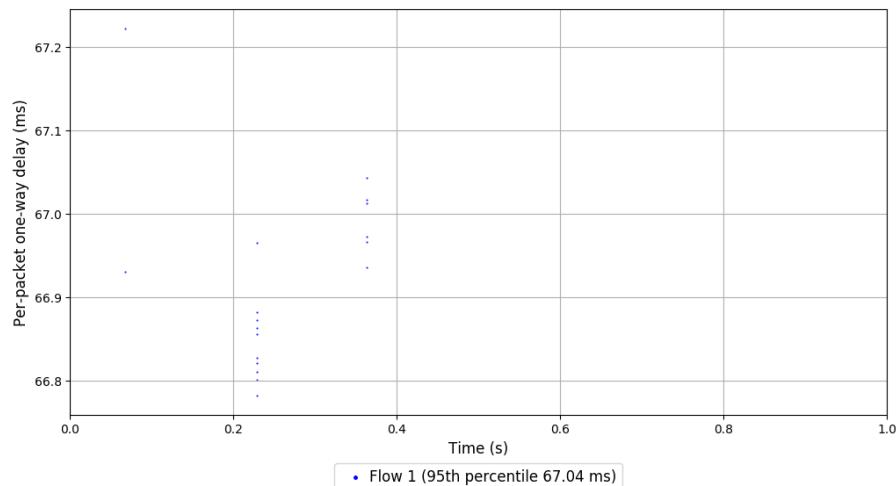
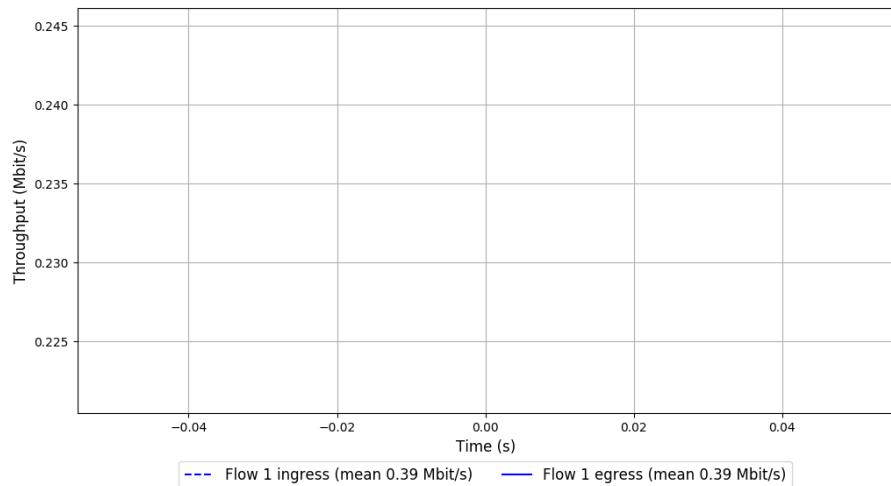


Run 2: Statistics of Copa

Start at: 2017-12-05 16:32:20

End at: 2017-12-05 16:32:50

Run 2: Report of Copa — Data Link



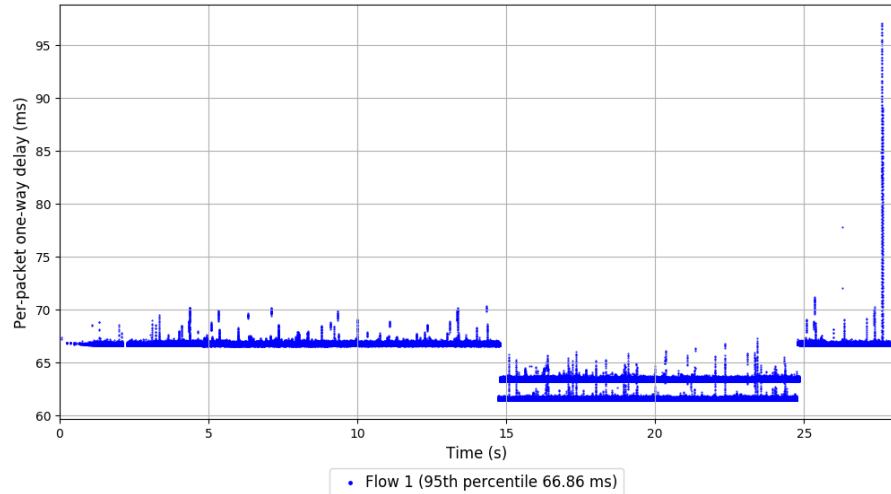
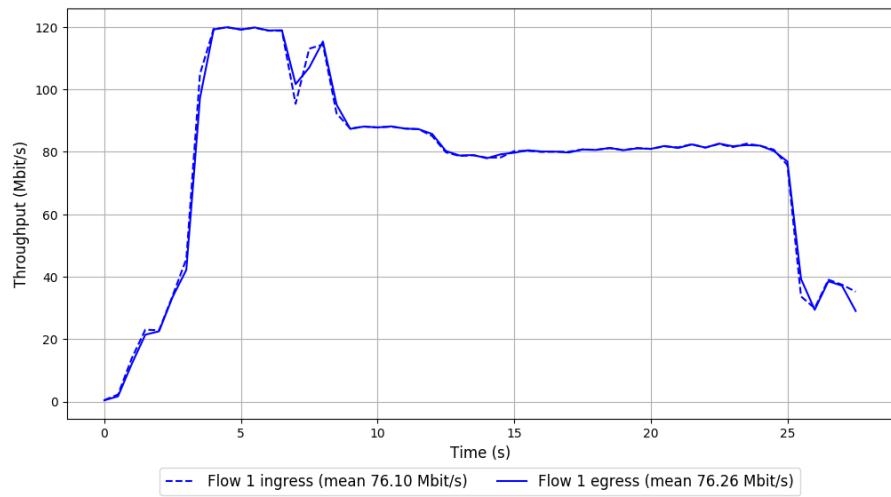
Run 3: Statistics of Copa

Start at: 2017-12-05 16:42:30

End at: 2017-12-05 16:43:00

```
# Below is generated by plot.py at 2017-12-05 20:24:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.26 Mbit/s
95th percentile per-packet one-way delay: 66.860 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 76.26 Mbit/s
95th percentile per-packet one-way delay: 66.860 ms
Loss rate: 0.27%
```

Run 3: Report of Copa — Data Link



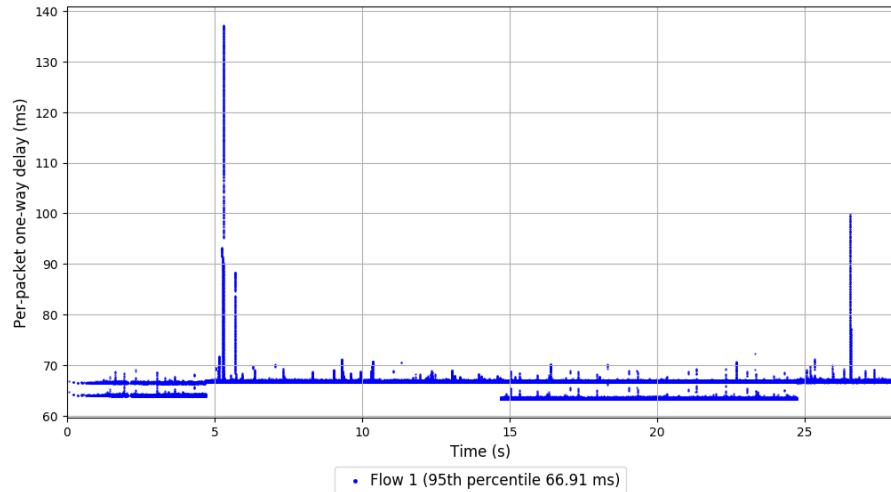
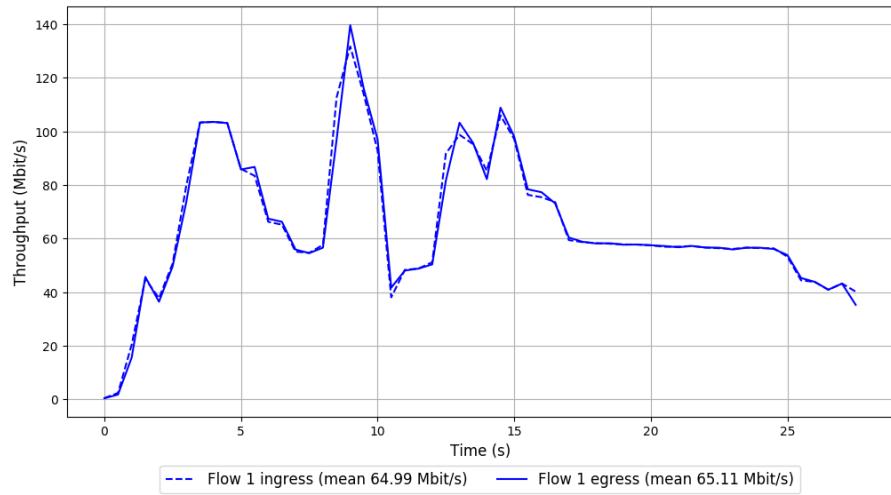
Run 4: Statistics of Copa

Start at: 2017-12-05 16:53:00

End at: 2017-12-05 16:53:30

```
# Below is generated by plot.py at 2017-12-05 20:24:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.11 Mbit/s
95th percentile per-packet one-way delay: 66.912 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 65.11 Mbit/s
95th percentile per-packet one-way delay: 66.912 ms
Loss rate: 0.30%
```

Run 4: Report of Copa — Data Link



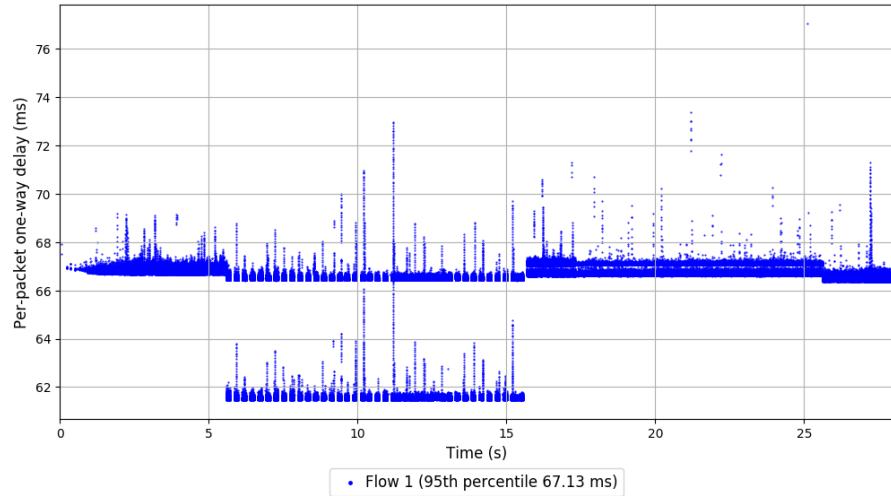
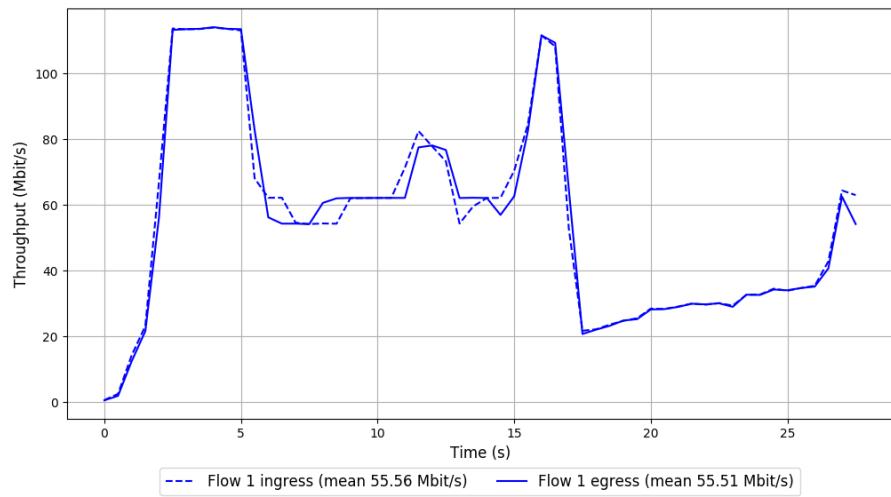
Run 5: Statistics of Copa

Start at: 2017-12-05 17:03:20

End at: 2017-12-05 17:03:50

```
# Below is generated by plot.py at 2017-12-05 20:24:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.51 Mbit/s
95th percentile per-packet one-way delay: 67.132 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 55.51 Mbit/s
95th percentile per-packet one-way delay: 67.132 ms
Loss rate: 0.57%
```

Run 5: Report of Copa — Data Link



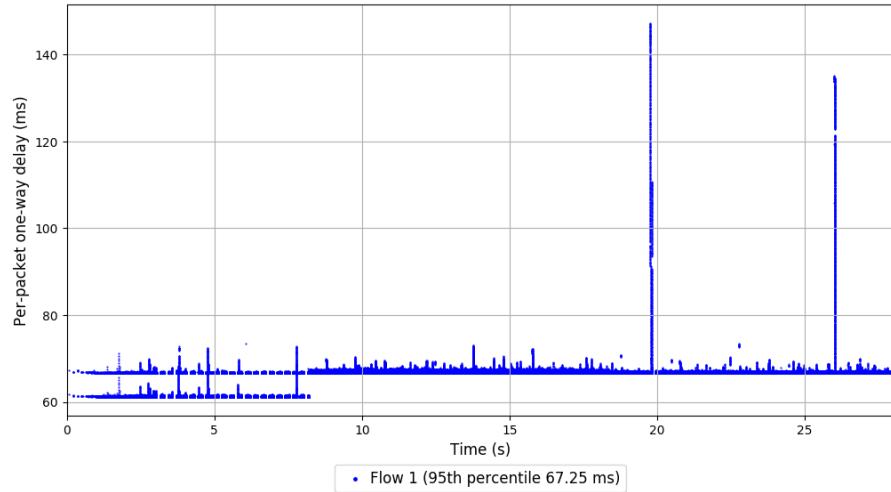
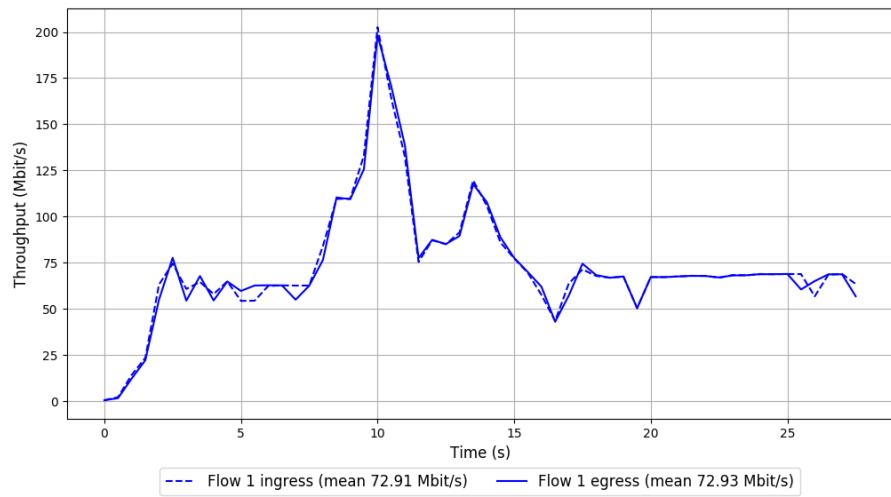
Run 6: Statistics of Copa

Start at: 2017-12-05 17:13:47

End at: 2017-12-05 17:14:17

```
# Below is generated by plot.py at 2017-12-05 20:24:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.93 Mbit/s
95th percentile per-packet one-way delay: 67.254 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 72.93 Mbit/s
95th percentile per-packet one-way delay: 67.254 ms
Loss rate: 0.43%
```

Run 6: Report of Copa — Data Link



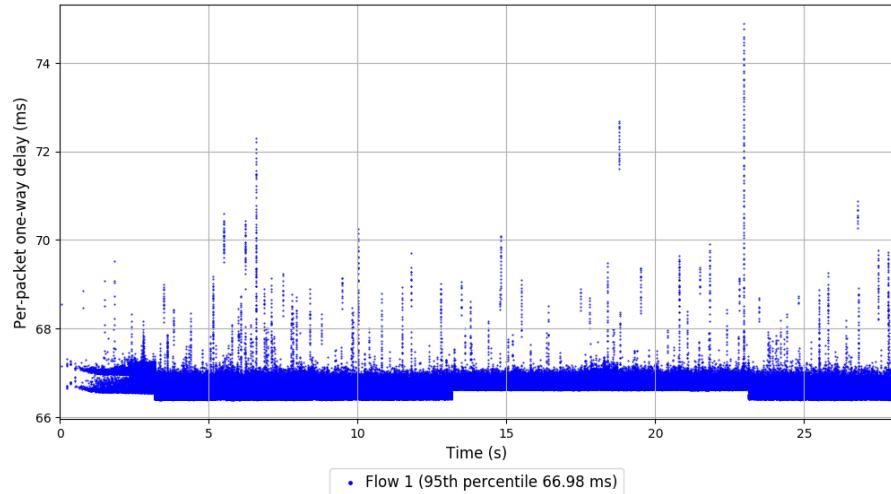
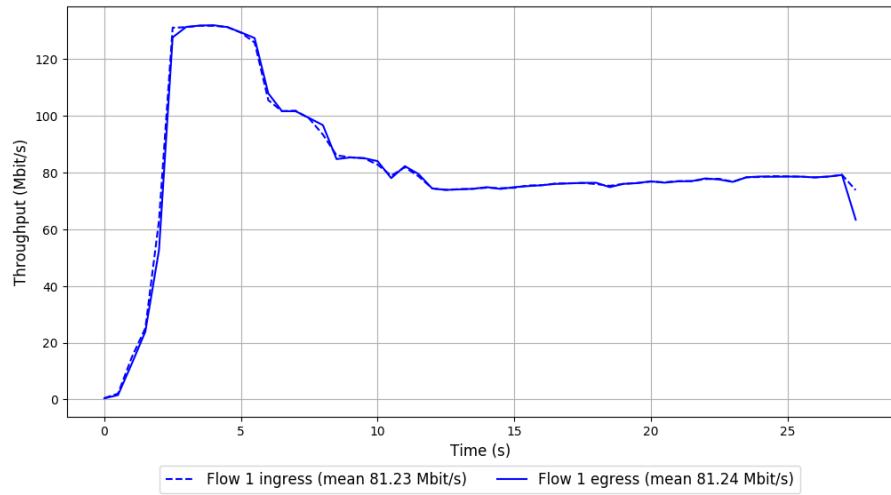
Run 7: Statistics of Copa

Start at: 2017-12-05 17:24:02

End at: 2017-12-05 17:24:32

```
# Below is generated by plot.py at 2017-12-05 20:24:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.24 Mbit/s
95th percentile per-packet one-way delay: 66.977 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 81.24 Mbit/s
95th percentile per-packet one-way delay: 66.977 ms
Loss rate: 0.46%
```

Run 7: Report of Copa — Data Link



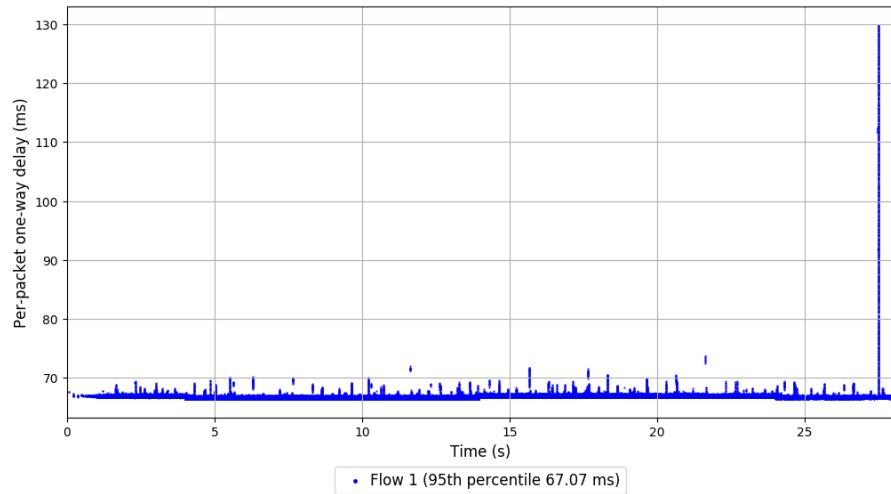
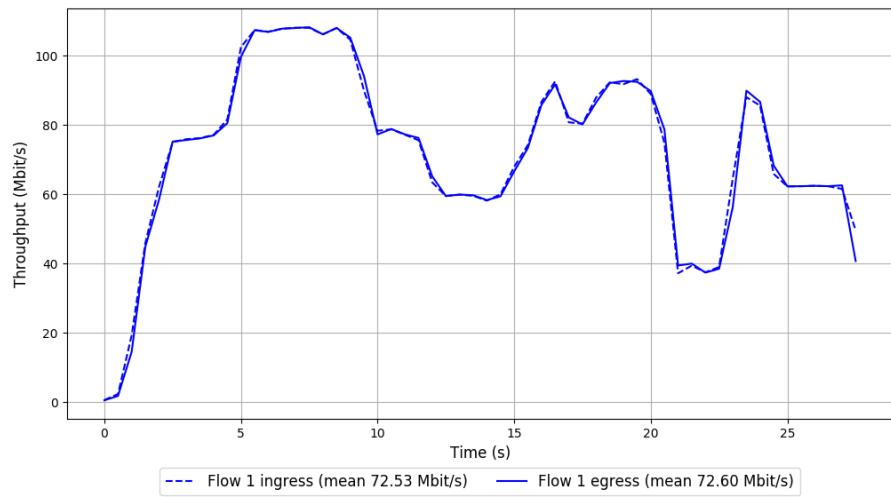
Run 8: Statistics of Copa

Start at: 2017-12-05 17:34:31

End at: 2017-12-05 17:35:01

```
# Below is generated by plot.py at 2017-12-05 20:24:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.60 Mbit/s
95th percentile per-packet one-way delay: 67.072 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 72.60 Mbit/s
95th percentile per-packet one-way delay: 67.072 ms
Loss rate: 0.40%
```

Run 8: Report of Copa — Data Link



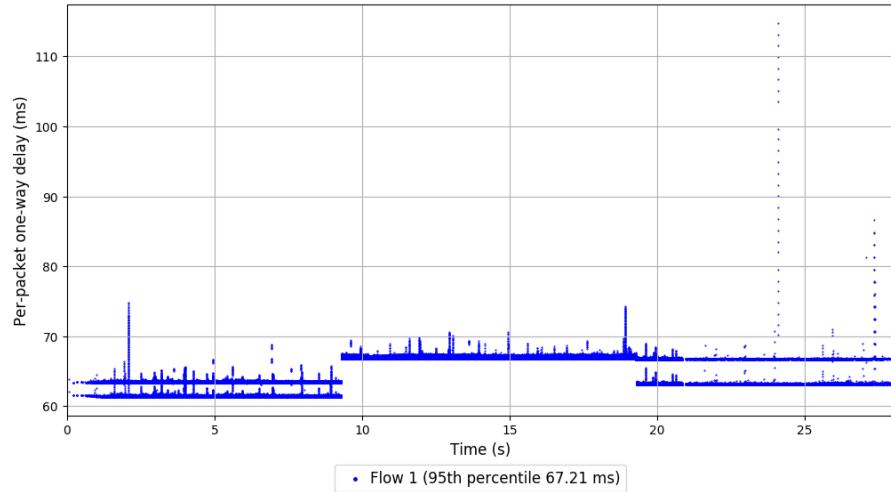
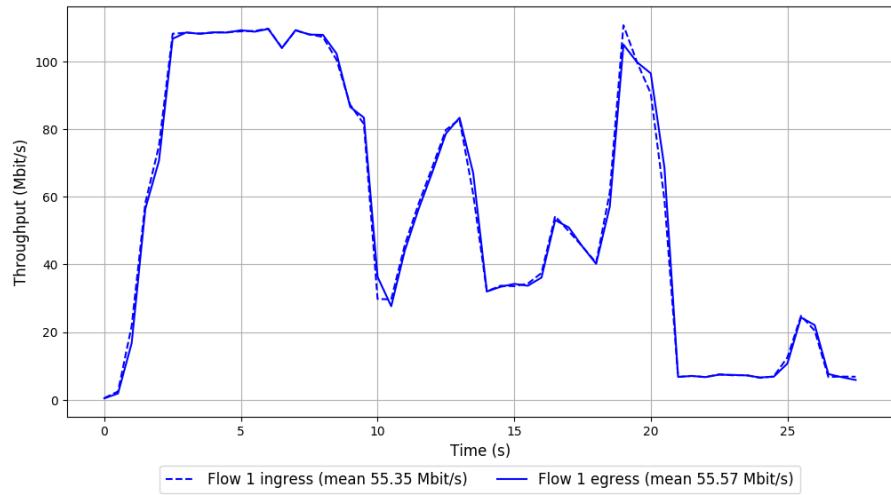
Run 9: Statistics of Copa

Start at: 2017-12-05 17:45:26

End at: 2017-12-05 17:45:56

```
# Below is generated by plot.py at 2017-12-05 20:24:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 67.209 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 67.209 ms
Loss rate: 0.06%
```

Run 9: Report of Copa — Data Link



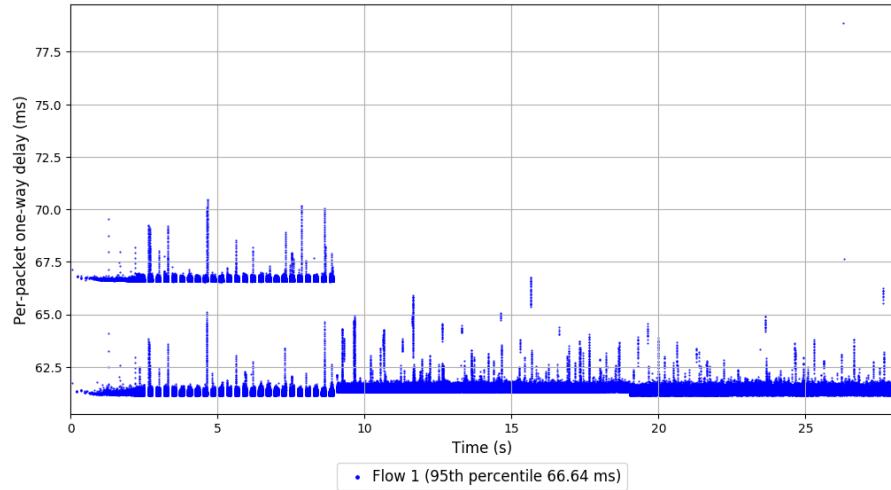
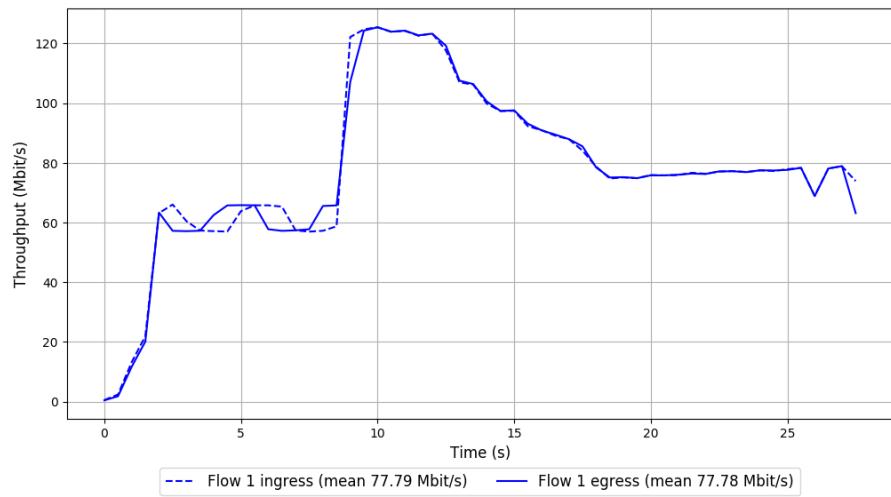
Run 10: Statistics of Copa

Start at: 2017-12-05 17:55:36

End at: 2017-12-05 17:56:06

```
# Below is generated by plot.py at 2017-12-05 20:24:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 66.640 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 77.78 Mbit/s
95th percentile per-packet one-way delay: 66.640 ms
Loss rate: 0.47%
```

Run 10: Report of Copa — Data Link



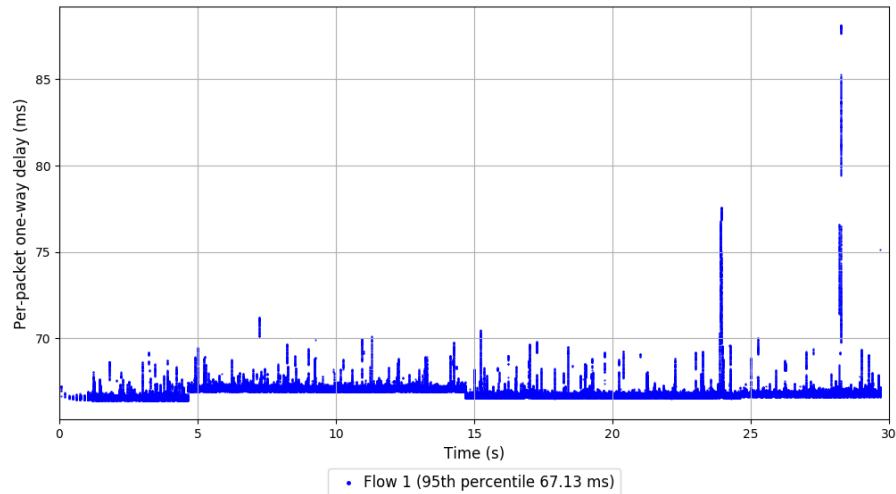
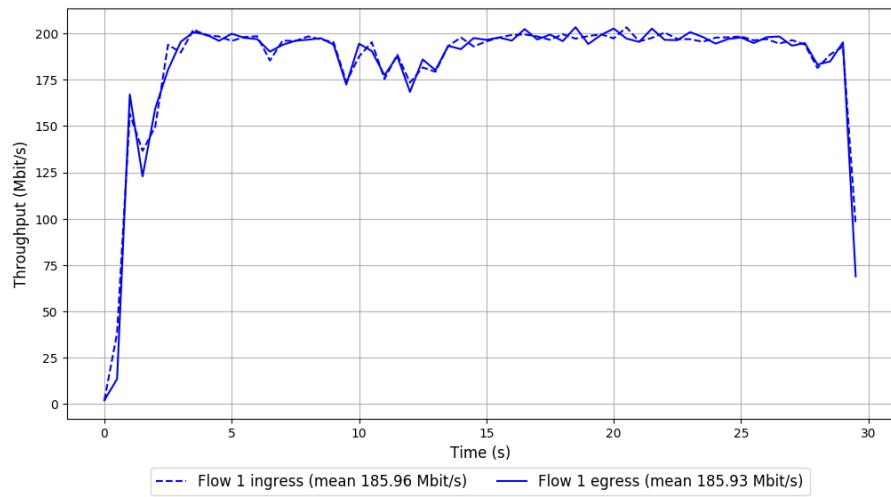
Run 1: Statistics of Indigo

Start at: 2017-12-05 16:20:22

End at: 2017-12-05 16:20:52

```
# Below is generated by plot.py at 2017-12-05 20:26:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.93 Mbit/s
95th percentile per-packet one-way delay: 67.127 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 185.93 Mbit/s
95th percentile per-packet one-way delay: 67.127 ms
Loss rate: 0.47%
```

Run 1: Report of Indigo — Data Link



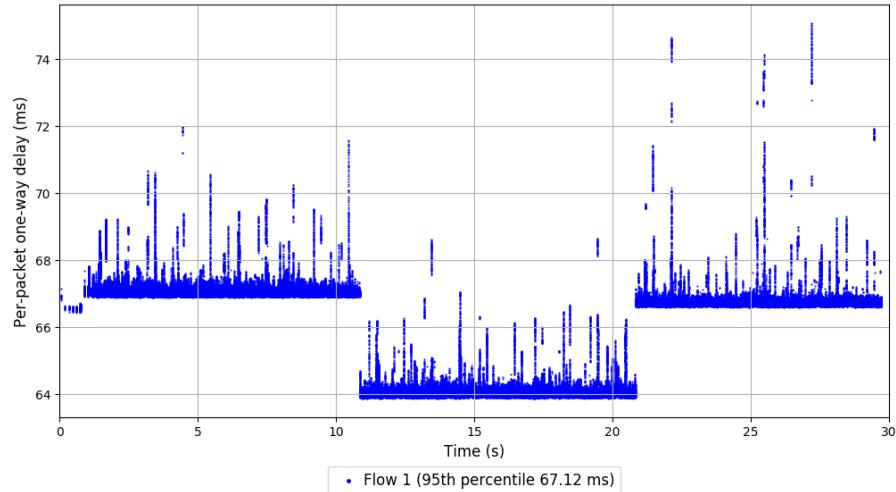
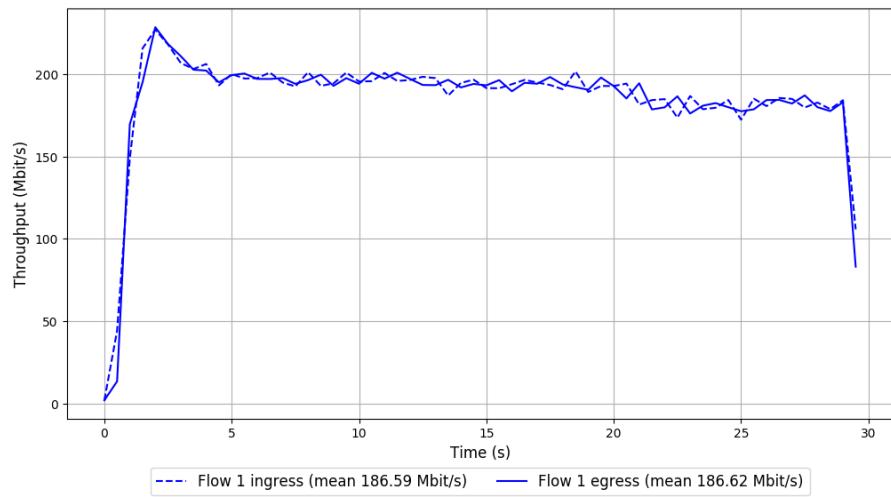
Run 2: Statistics of Indigo

Start at: 2017-12-05 16:30:36

End at: 2017-12-05 16:31:06

```
# Below is generated by plot.py at 2017-12-05 20:26:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.62 Mbit/s
95th percentile per-packet one-way delay: 67.118 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 186.62 Mbit/s
95th percentile per-packet one-way delay: 67.118 ms
Loss rate: 0.44%
```

Run 2: Report of Indigo — Data Link



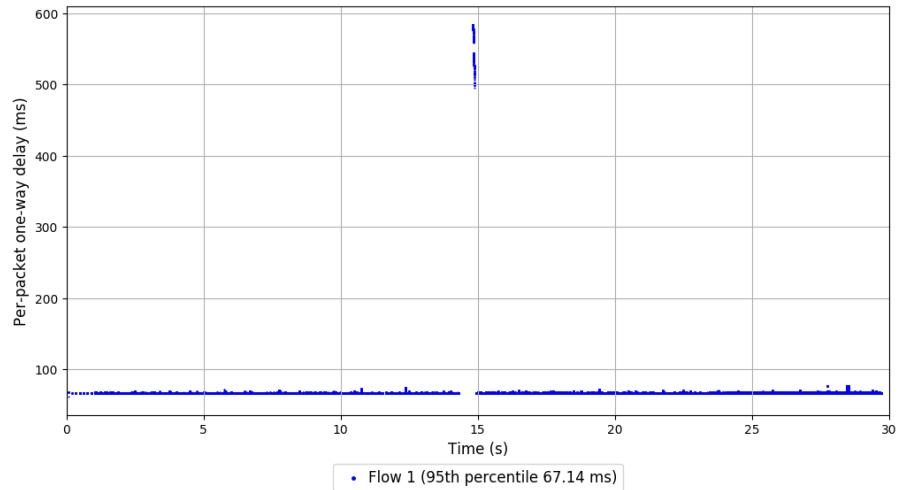
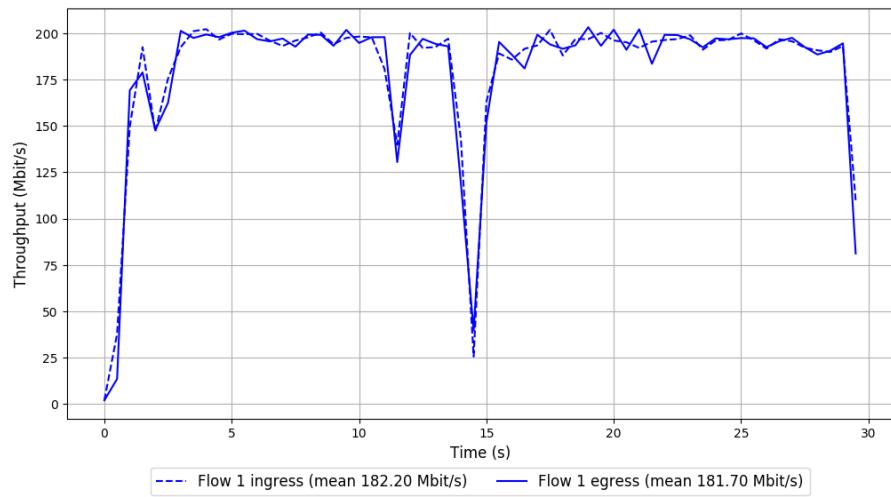
Run 3: Statistics of Indigo

Start at: 2017-12-05 16:40:53

End at: 2017-12-05 16:41:23

```
# Below is generated by plot.py at 2017-12-05 20:26:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.70 Mbit/s
95th percentile per-packet one-way delay: 67.143 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 181.70 Mbit/s
95th percentile per-packet one-way delay: 67.143 ms
Loss rate: 0.70%
```

Run 3: Report of Indigo — Data Link



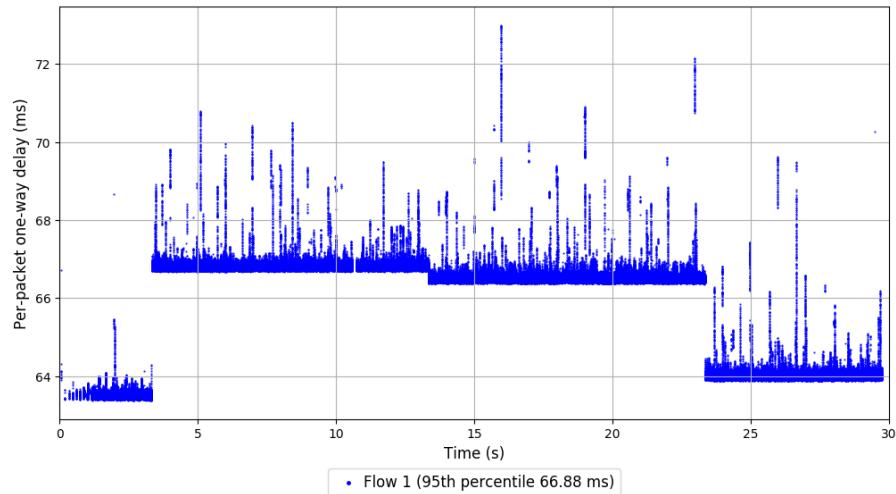
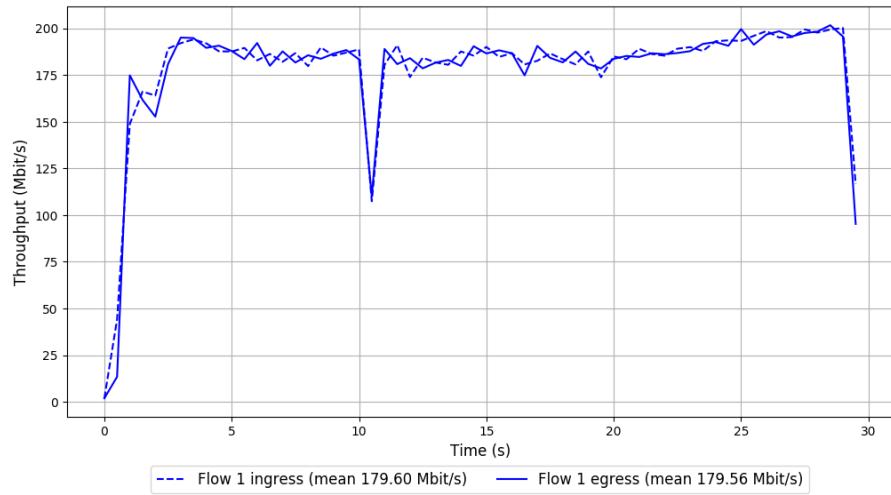
Run 4: Statistics of Indigo

Start at: 2017-12-05 16:51:24

End at: 2017-12-05 16:51:54

```
# Below is generated by plot.py at 2017-12-05 20:27:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.56 Mbit/s
95th percentile per-packet one-way delay: 66.875 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 179.56 Mbit/s
95th percentile per-packet one-way delay: 66.875 ms
Loss rate: 0.46%
```

Run 4: Report of Indigo — Data Link

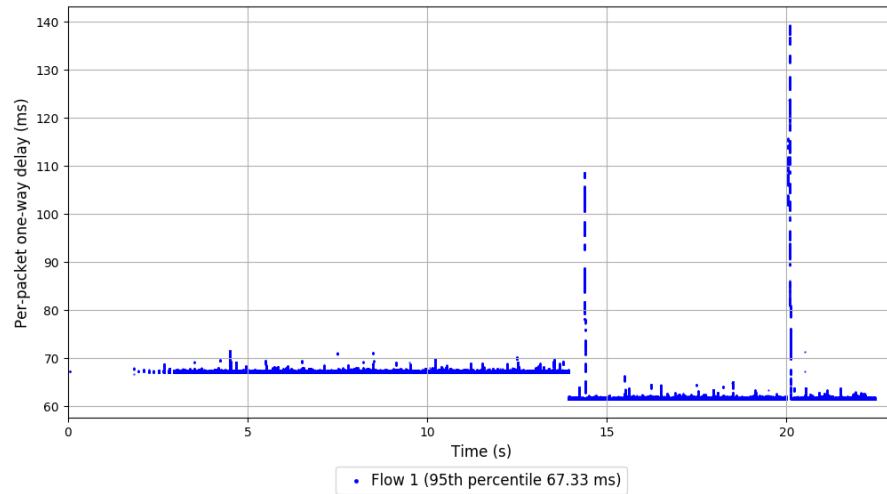
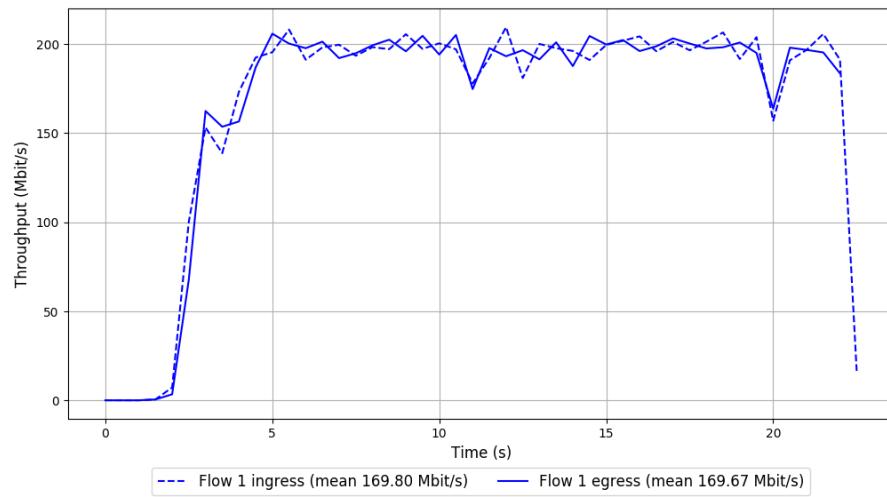


Run 5: Statistics of Indigo

Start at: 2017-12-05 17:01:46

End at: 2017-12-05 17:02:16

Run 5: Report of Indigo — Data Link



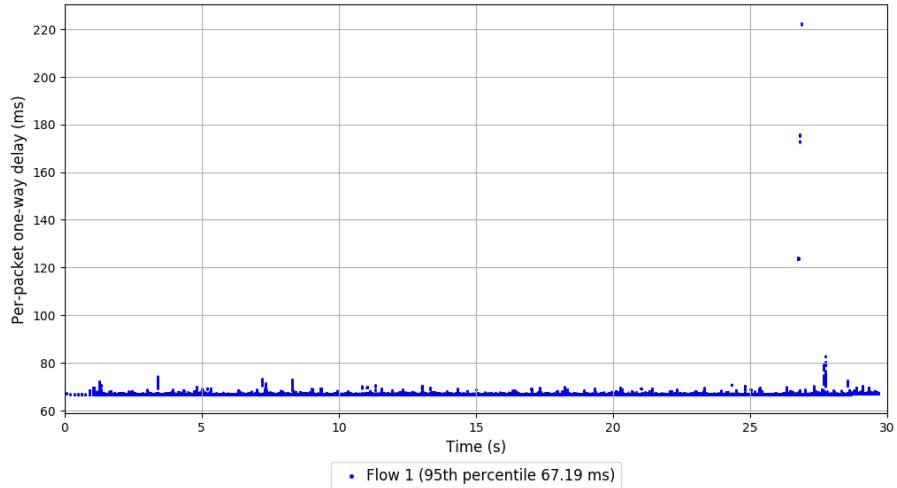
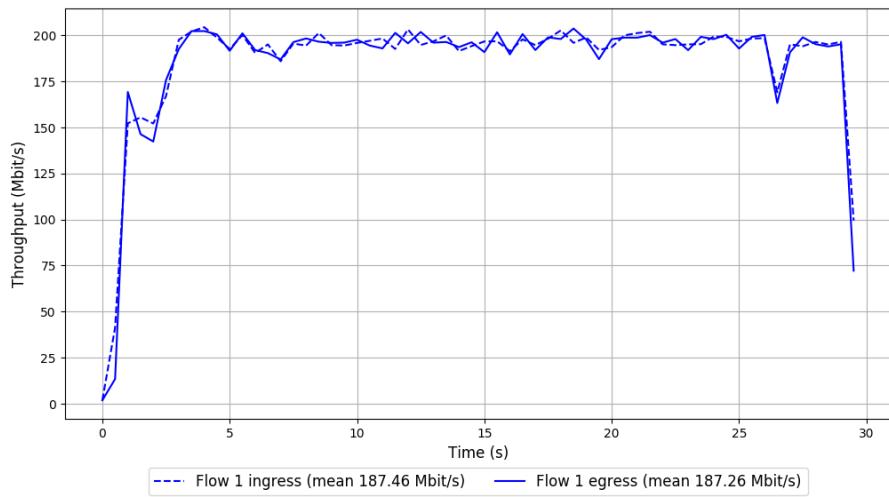
Run 6: Statistics of Indigo

Start at: 2017-12-05 17:12:08

End at: 2017-12-05 17:12:38

```
# Below is generated by plot.py at 2017-12-05 20:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.26 Mbit/s
95th percentile per-packet one-way delay: 67.185 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 187.26 Mbit/s
95th percentile per-packet one-way delay: 67.185 ms
Loss rate: 0.56%
```

Run 6: Report of Indigo — Data Link



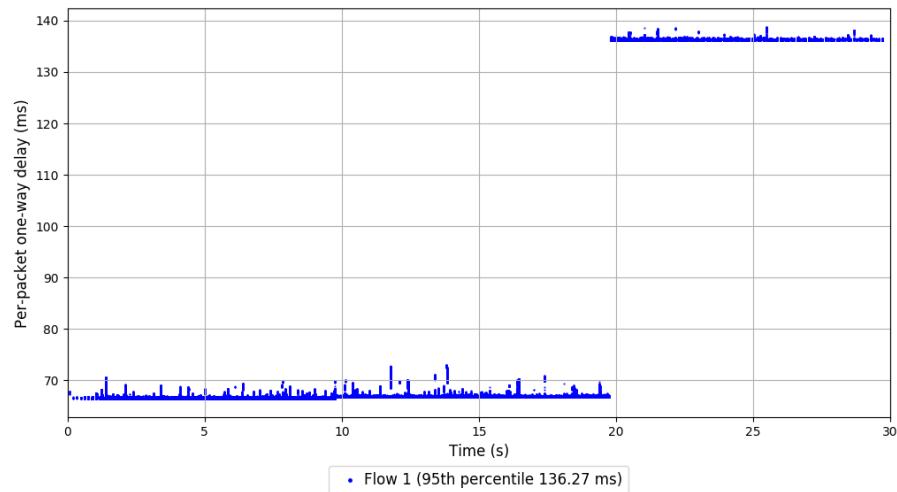
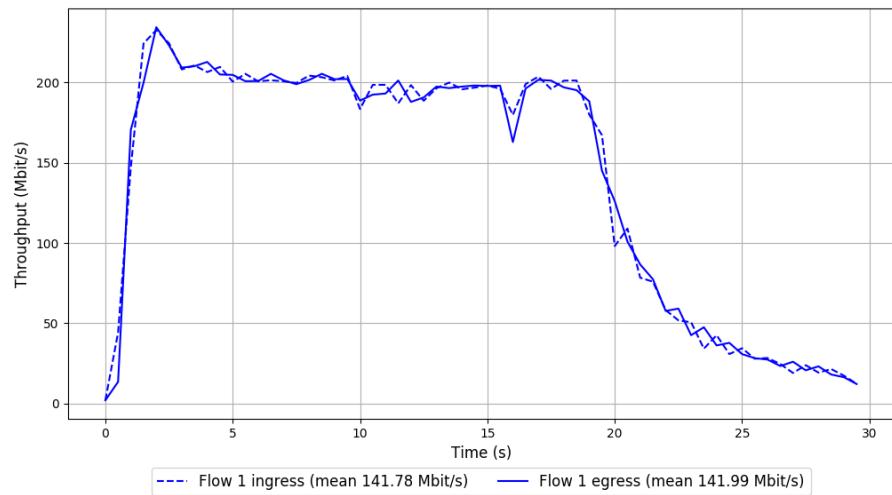
Run 7: Statistics of Indigo

Start at: 2017-12-05 17:22:27

End at: 2017-12-05 17:22:57

```
# Below is generated by plot.py at 2017-12-05 20:27:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.99 Mbit/s
95th percentile per-packet one-way delay: 136.273 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 141.99 Mbit/s
95th percentile per-packet one-way delay: 136.273 ms
Loss rate: 0.31%
```

Run 7: Report of Indigo — Data Link



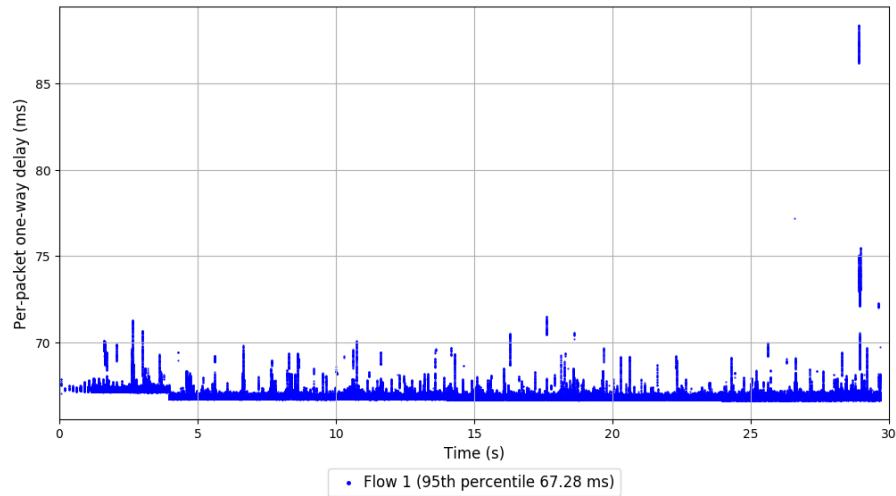
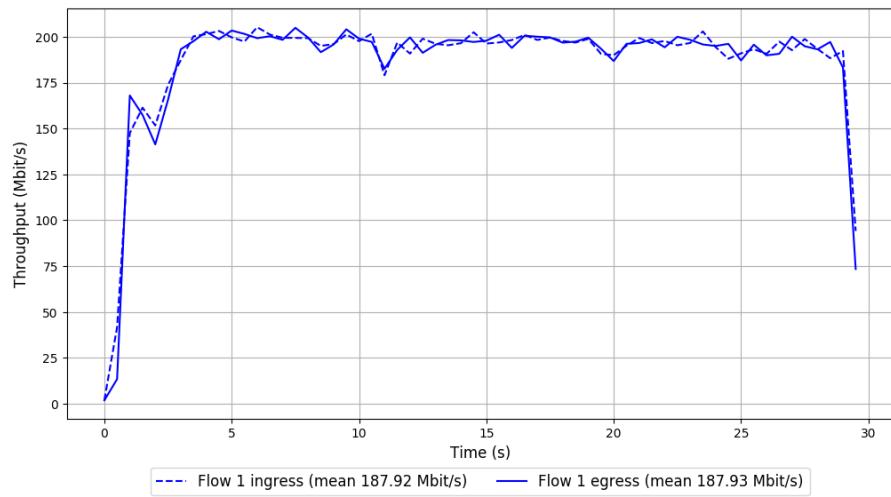
Run 8: Statistics of Indigo

Start at: 2017-12-05 17:32:53

End at: 2017-12-05 17:33:23

```
# Below is generated by plot.py at 2017-12-05 20:27:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.93 Mbit/s
95th percentile per-packet one-way delay: 67.277 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 187.93 Mbit/s
95th percentile per-packet one-way delay: 67.277 ms
Loss rate: 0.43%
```

Run 8: Report of Indigo — Data Link



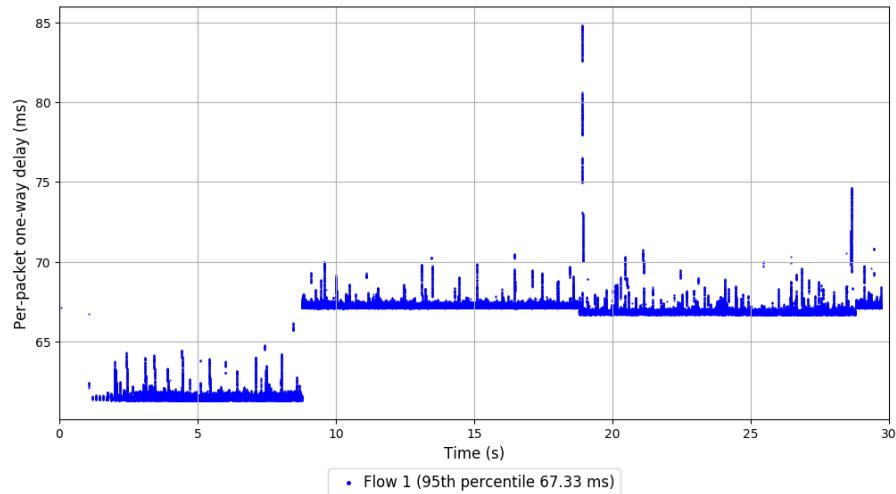
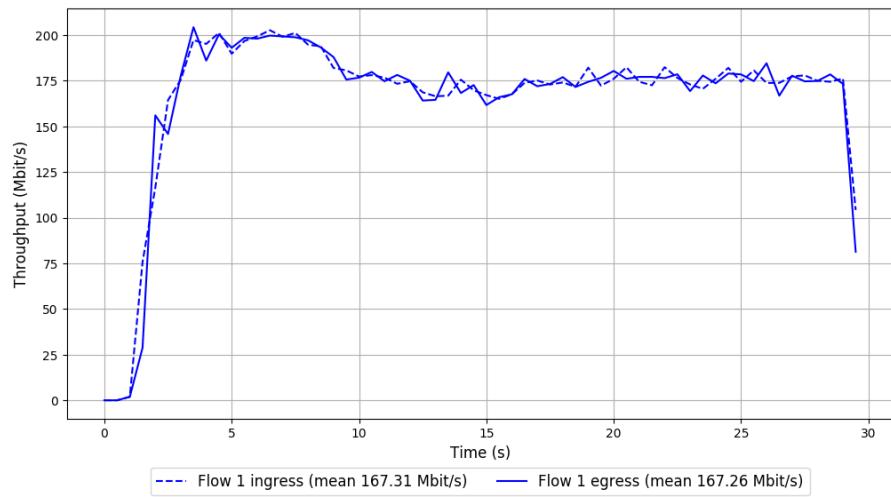
Run 9: Statistics of Indigo

Start at: 2017-12-05 17:43:48

End at: 2017-12-05 17:44:18

```
# Below is generated by plot.py at 2017-12-05 20:28:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.26 Mbit/s
95th percentile per-packet one-way delay: 67.325 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 167.26 Mbit/s
95th percentile per-packet one-way delay: 67.325 ms
Loss rate: 0.49%
```

Run 9: Report of Indigo — Data Link



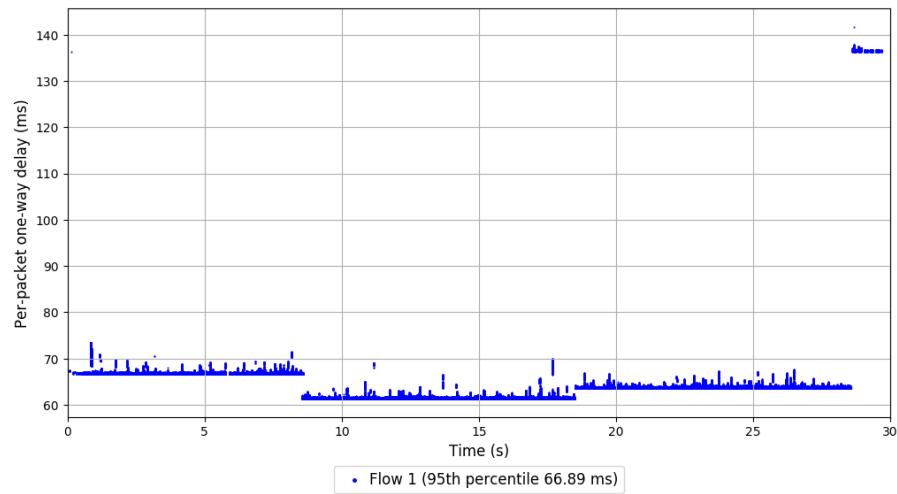
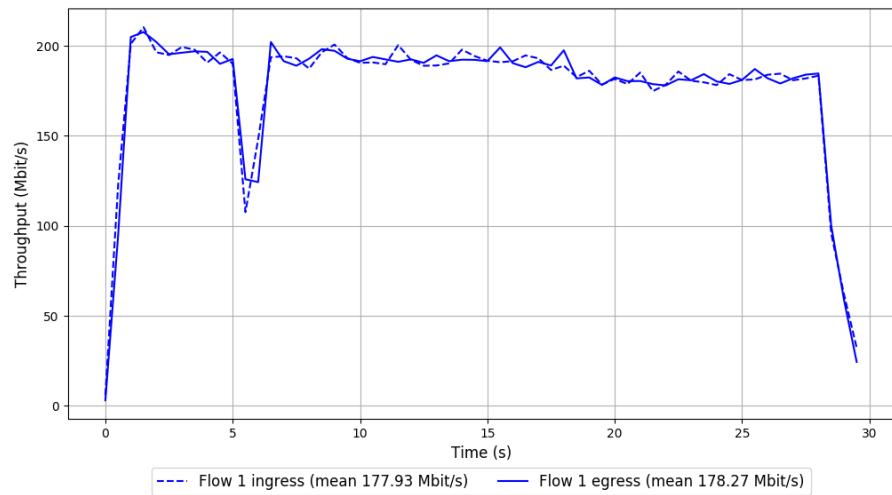
Run 10: Statistics of Indigo

Start at: 2017-12-05 17:53:58

End at: 2017-12-05 17:54:28

```
# Below is generated by plot.py at 2017-12-05 20:28:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.27 Mbit/s
95th percentile per-packet one-way delay: 66.893 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 178.27 Mbit/s
95th percentile per-packet one-way delay: 66.893 ms
Loss rate: 0.27%
```

Run 10: Report of Indigo — Data Link

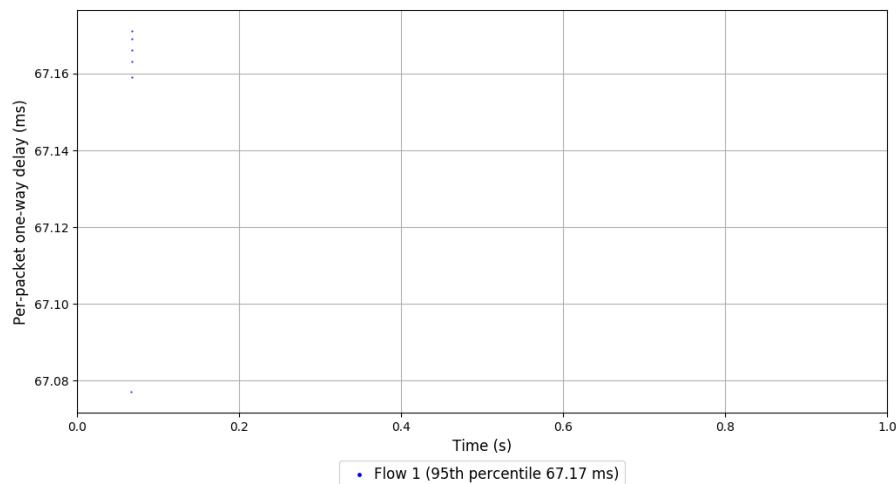
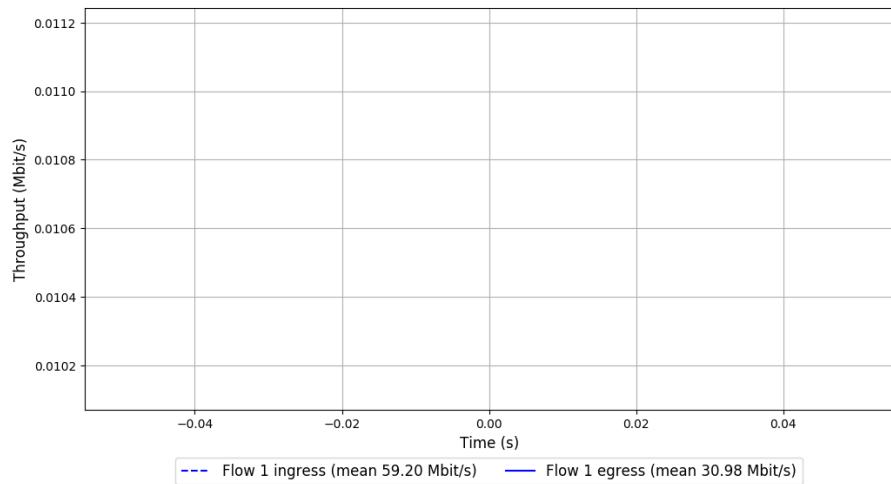


Run 1: Statistics of Indigo-calib

Start at: 2017-12-05 16:24:47

End at: 2017-12-05 16:25:17

Run 1: Report of Indigo-calib — Data Link

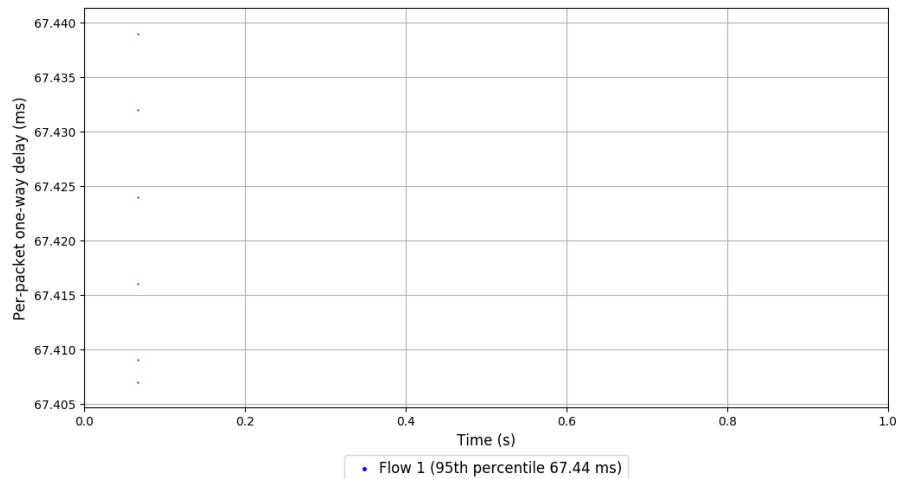
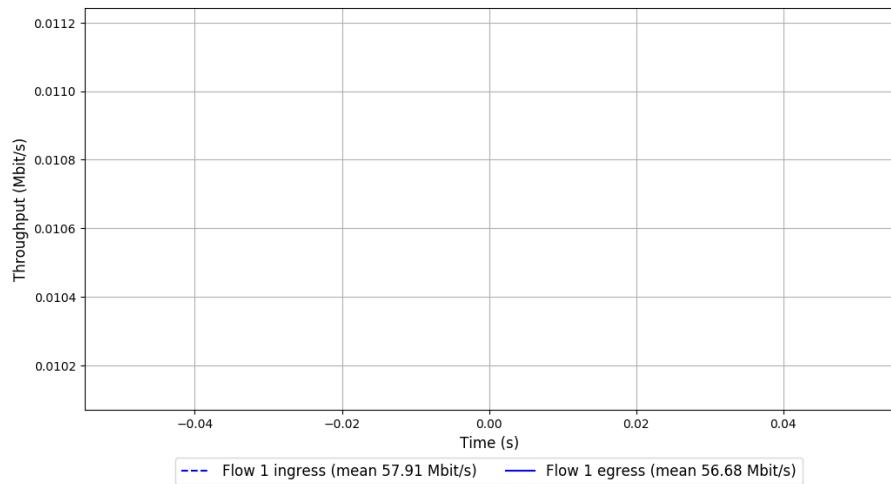


Run 2: Statistics of Indigo-calib

Start at: 2017-12-05 16:35:02

End at: 2017-12-05 16:35:32

Run 2: Report of Indigo-calib — Data Link



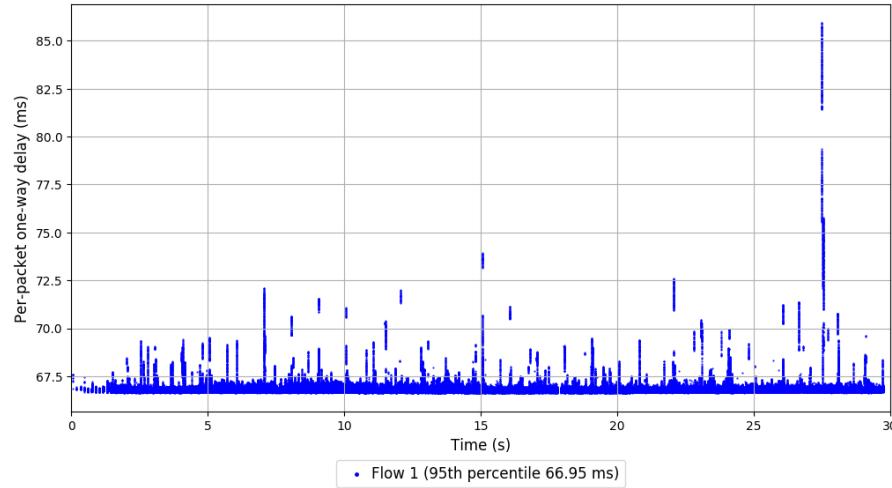
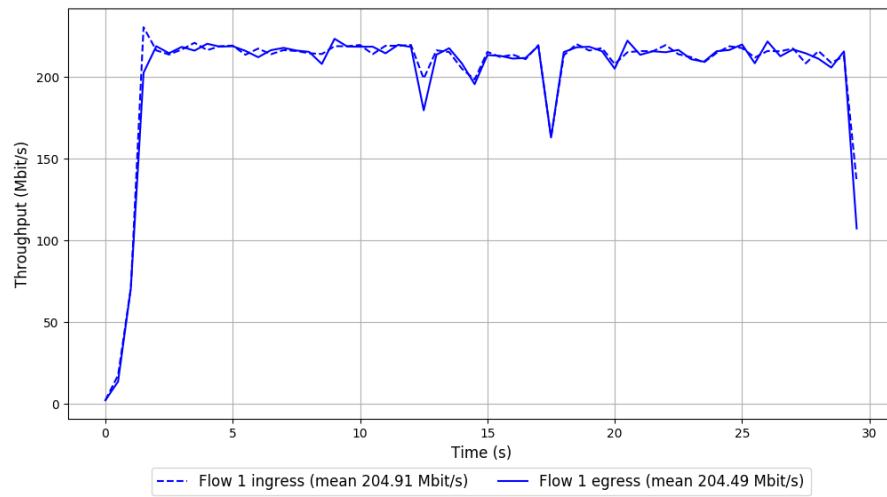
Run 3: Statistics of Indigo-calib

Start at: 2017-12-05 16:45:16

End at: 2017-12-05 16:45:46

```
# Below is generated by plot.py at 2017-12-05 20:28:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.49 Mbit/s
95th percentile per-packet one-way delay: 66.952 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 204.49 Mbit/s
95th percentile per-packet one-way delay: 66.952 ms
Loss rate: 0.65%
```

Run 3: Report of Indigo-calib — Data Link

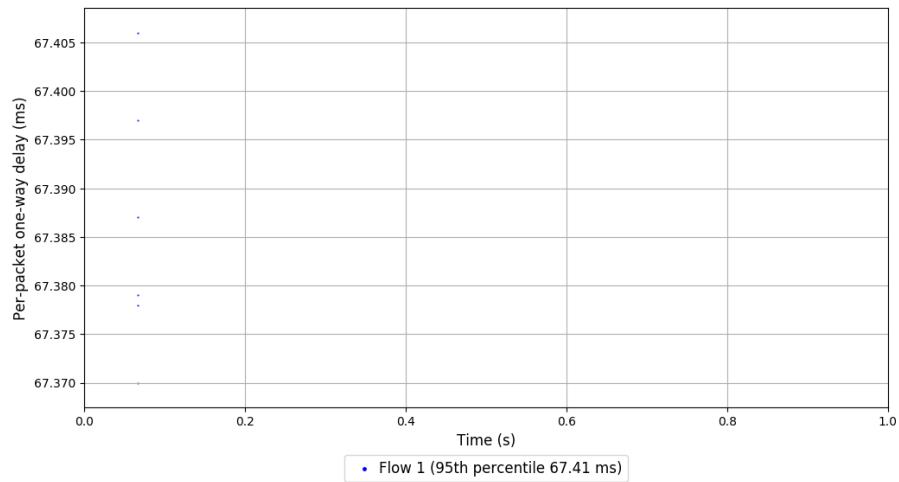
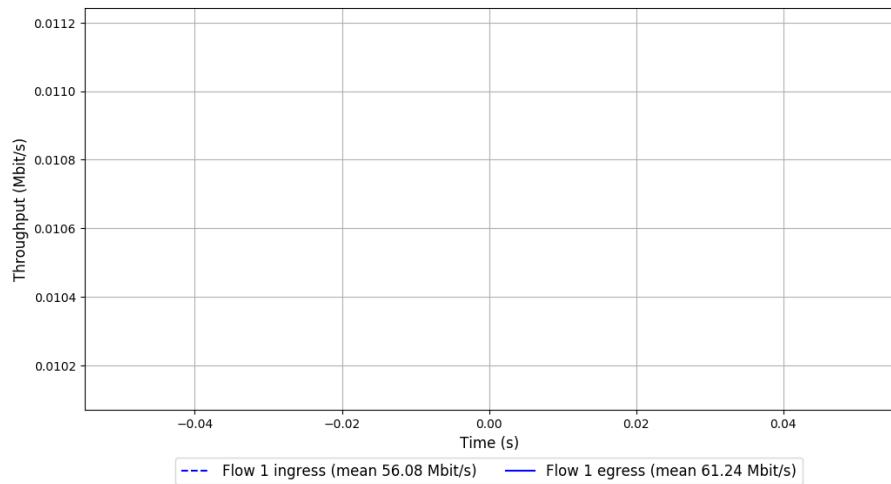


Run 4: Statistics of Indigo-calib

Start at: 2017-12-05 16:55:47

End at: 2017-12-05 16:56:17

Run 4: Report of Indigo-calib — Data Link

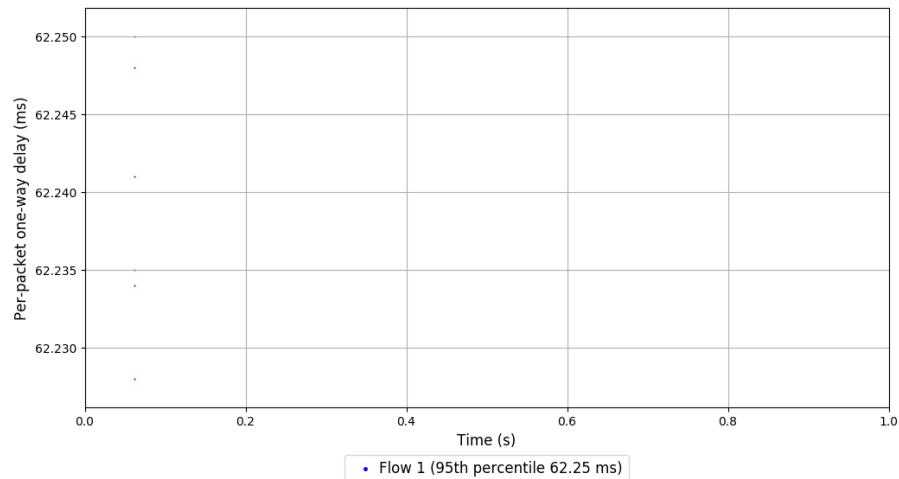
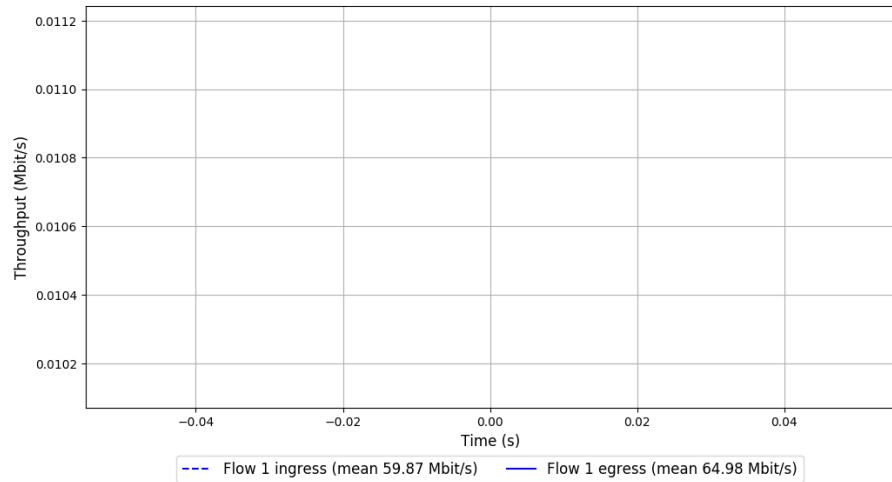


Run 5: Statistics of Indigo-calib

Start at: 2017-12-05 17:06:06

End at: 2017-12-05 17:06:36

Run 5: Report of Indigo-calib — Data Link

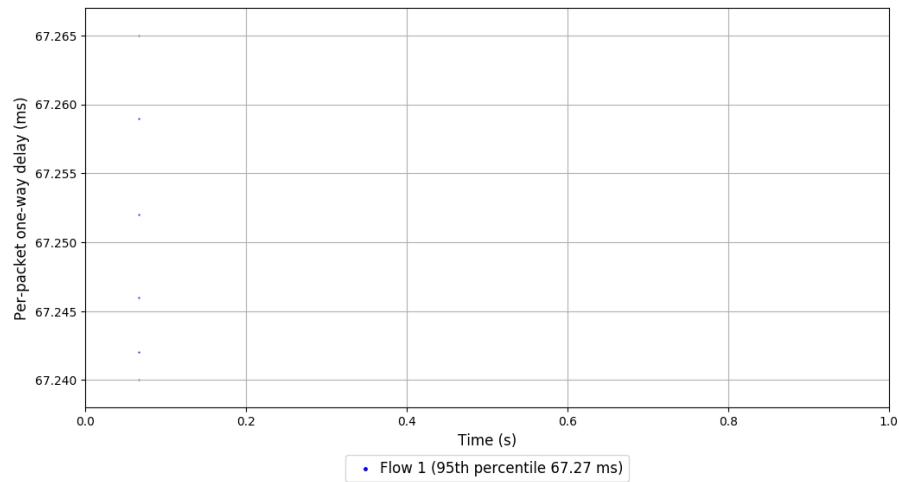
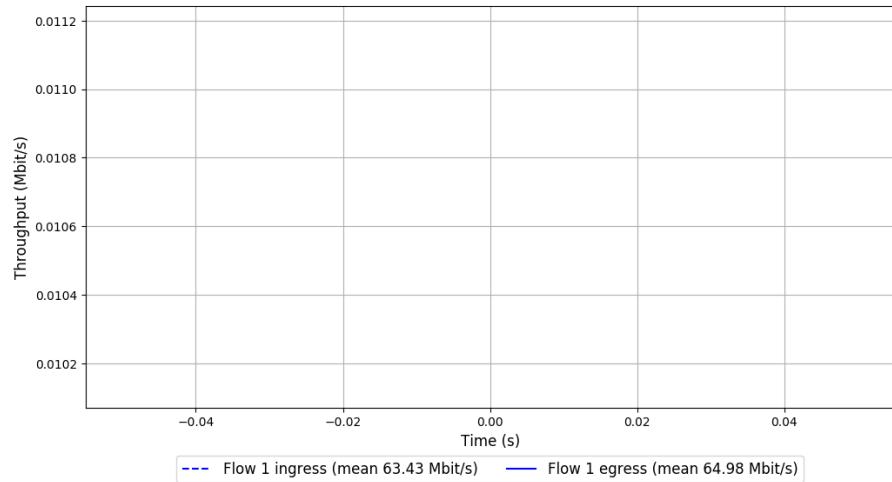


Run 6: Statistics of Indigo-calib

Start at: 2017-12-05 17:16:33

End at: 2017-12-05 17:17:03

Run 6: Report of Indigo-calib — Data Link

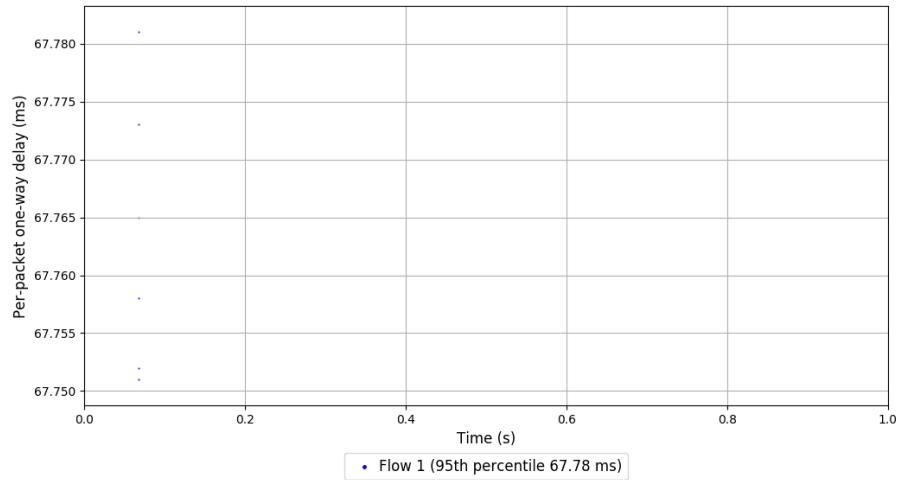
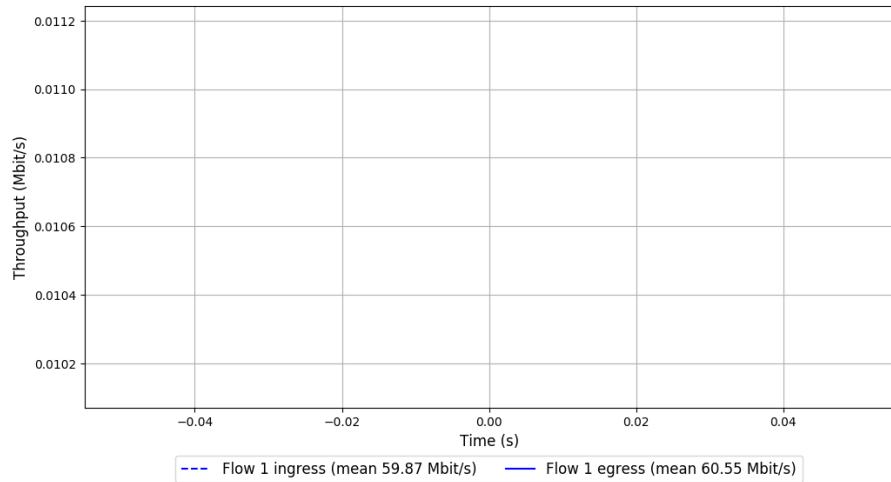


Run 7: Statistics of Indigo-calib

Start at: 2017-12-05 17:26:48

End at: 2017-12-05 17:27:18

Run 7: Report of Indigo-calib — Data Link

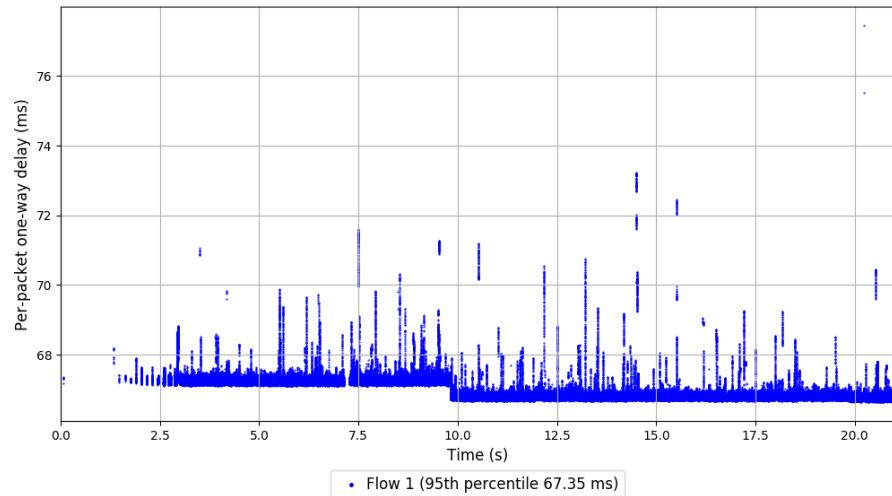
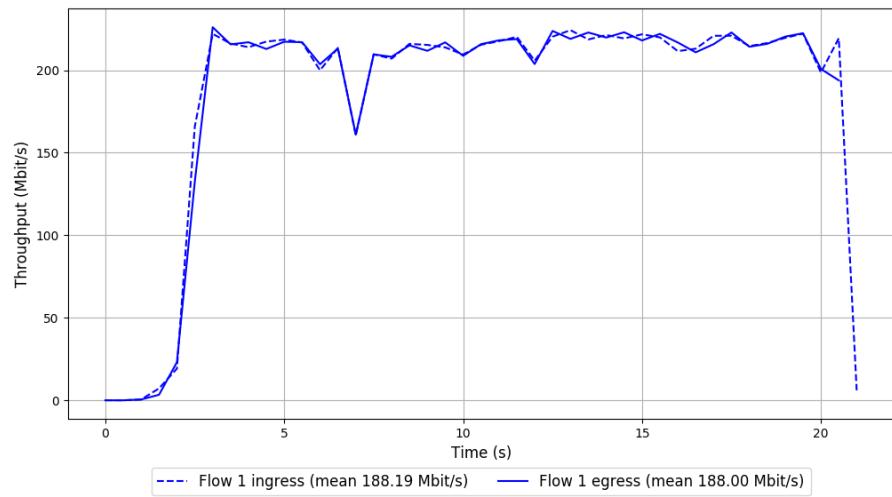


Run 8: Statistics of Indigo-calib

Start at: 2017-12-05 17:37:18

End at: 2017-12-05 17:37:48

Run 8: Report of Indigo-calib — Data Link

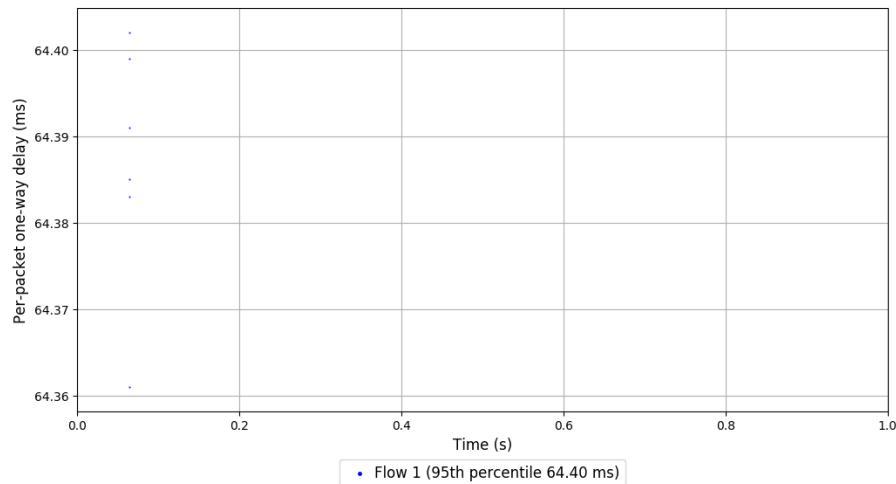
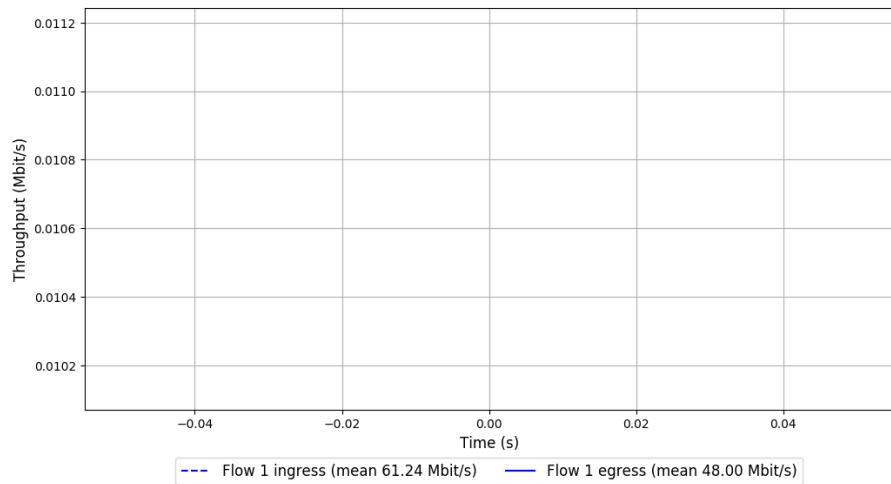


Run 9: Statistics of Indigo-calib

Start at: 2017-12-05 17:48:13

End at: 2017-12-05 17:48:43

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-05 17:58:23

End at: 2017-12-05 17:58:54

Run 10: Report of Indigo-calib — Data Link

