

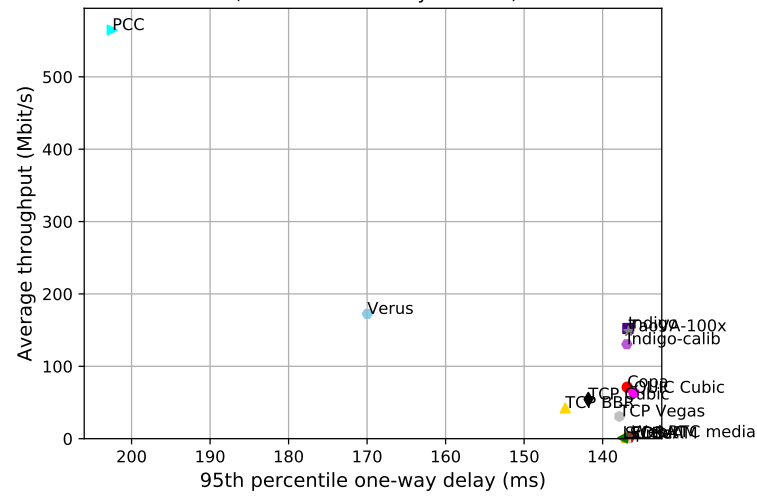
Pantheon Report

Generated at 2017-12-11 22:20:25 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).
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**).

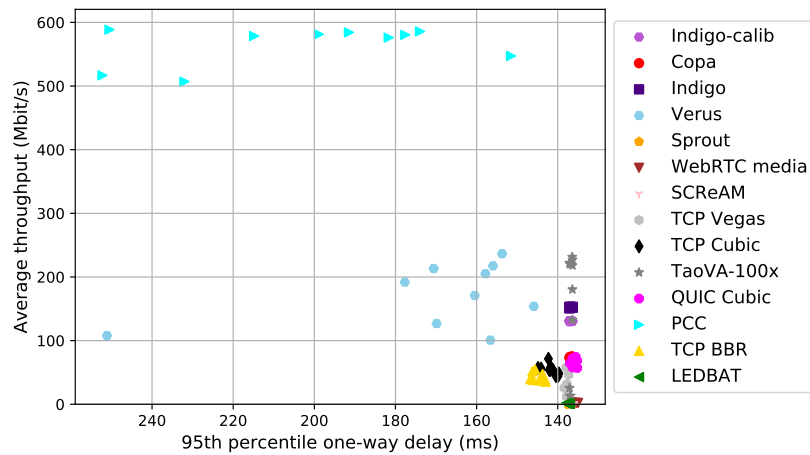
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
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 @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	42.45	144.76	0.16
TCP Cubic	10	54.23	141.82	0.09
LEDBAT	10	1.00	137.46	0.00
PCC	10	564.61	202.46	1.43
QUIC Cubic	10	63.47	136.02	0.00
SCReAM	9	0.22	136.53	0.01
WebRTC media	10	2.11	136.29	0.00
Sprout	9	0.44	137.16	0.00
TaoVA-100x	10	148.39	136.69	0.00
TCP Vegas	10	30.73	137.86	0.00
Verus	10	172.44	169.98	0.07
Copa	6	71.13	136.87	0.00
Indigo	10	152.25	136.78	0.00
Indigo-calib	10	130.53	136.92	0.01

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 19:23:33

End at: 2017-12-11 19:24:03

Below is generated by plot.py at 2017-12-11 21:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.57 Mbit/s

95th percentile per-packet one-way delay: 146.251 ms

Loss rate: 0.00%

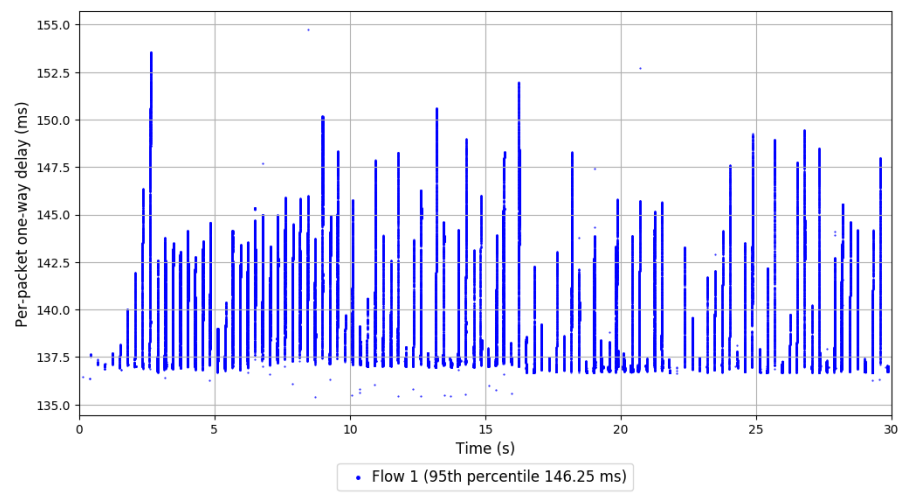
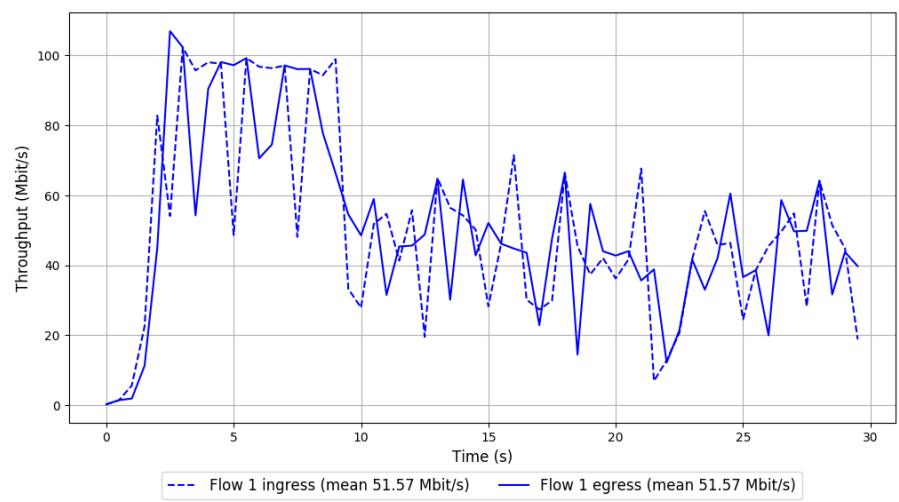
-- Flow 1:

Average throughput: 51.57 Mbit/s

95th percentile per-packet one-way delay: 146.251 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-11 19:35:04

End at: 2017-12-11 19:35:34

Below is generated by plot.py at 2017-12-11 21:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 143.207 ms

Loss rate: 0.00%

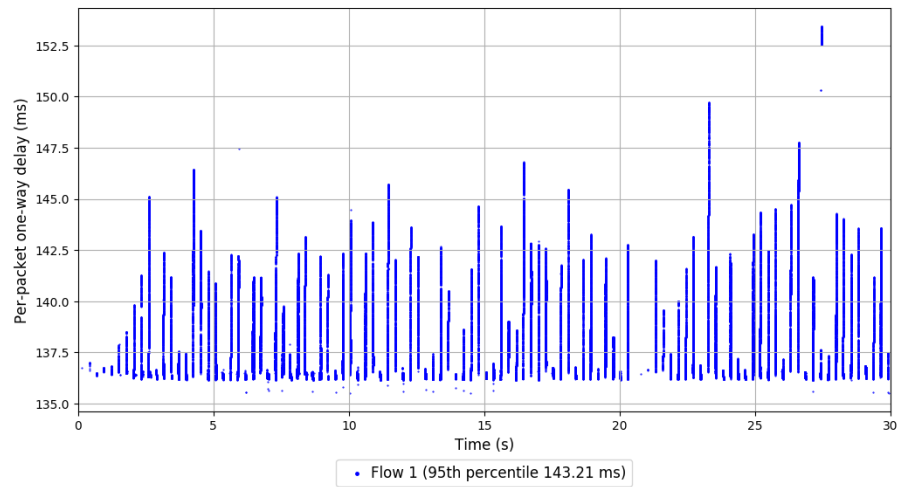
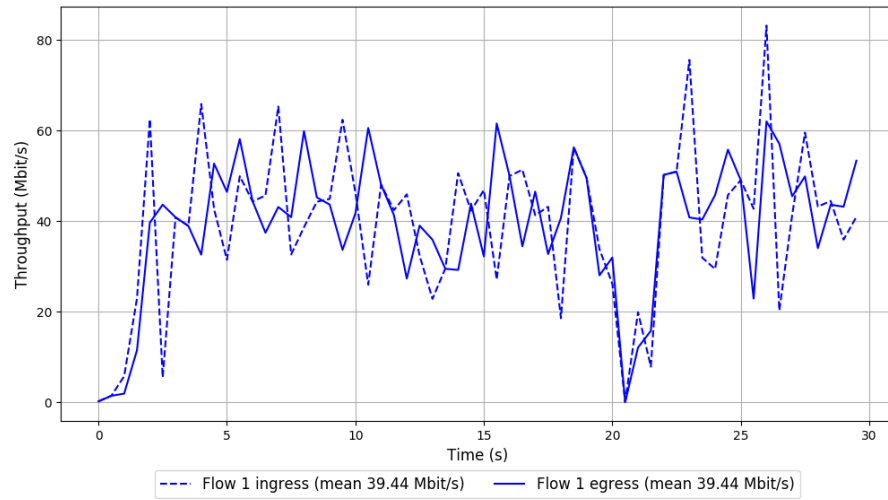
-- Flow 1:

Average throughput: 39.44 Mbit/s

95th percentile per-packet one-way delay: 143.207 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-11 19:46:41

End at: 2017-12-11 19:47:12

Below is generated by plot.py at 2017-12-11 21:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.23 Mbit/s

95th percentile per-packet one-way delay: 144.622 ms

Loss rate: 0.01%

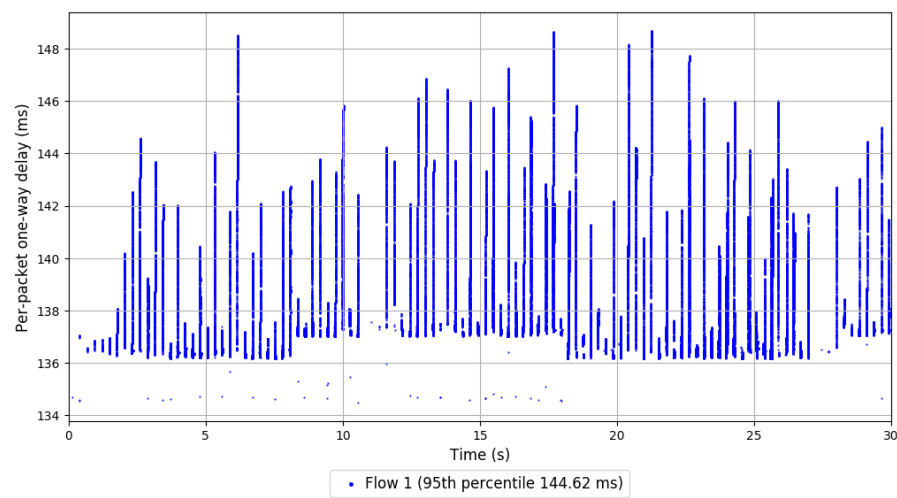
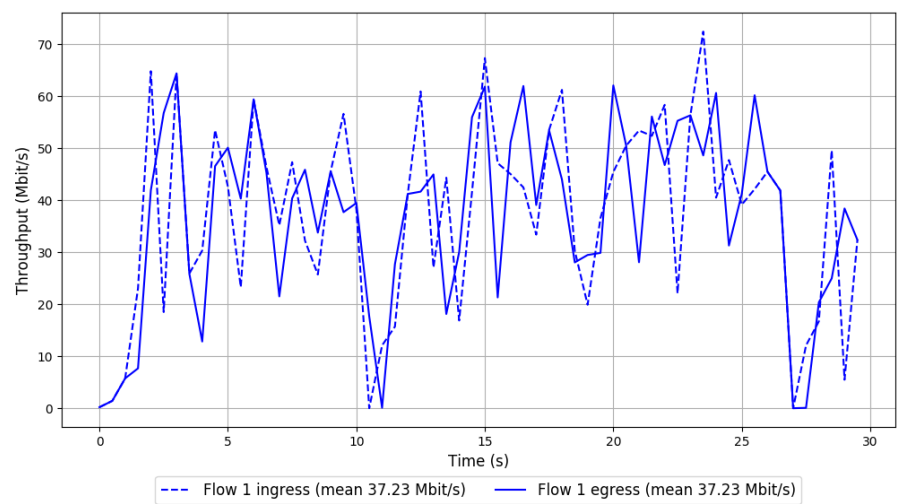
-- Flow 1:

Average throughput: 37.23 Mbit/s

95th percentile per-packet one-way delay: 144.622 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-11 19:58:21

End at: 2017-12-11 19:58:51

Below is generated by plot.py at 2017-12-11 21:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 142.996 ms

Loss rate: 0.00%

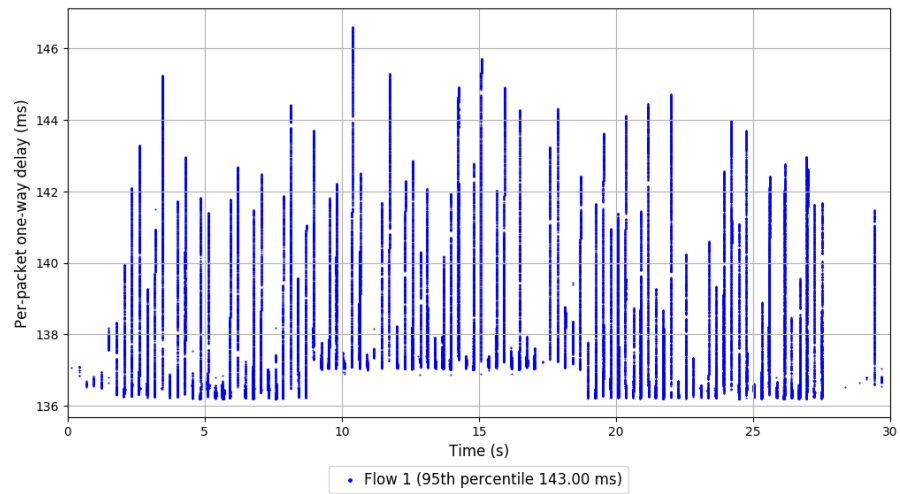
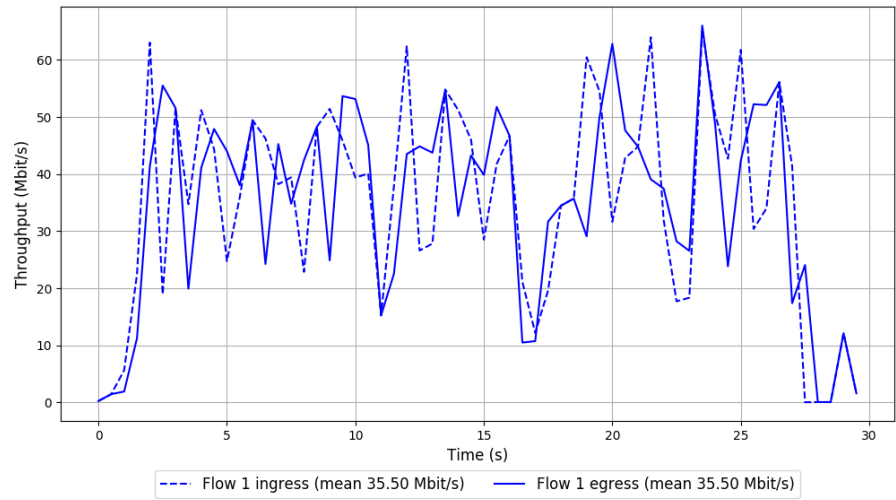
-- Flow 1:

Average throughput: 35.50 Mbit/s

95th percentile per-packet one-way delay: 142.996 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-11 20:10:03

End at: 2017-12-11 20:10:33

Below is generated by plot.py at 2017-12-11 21:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 143.740 ms

Loss rate: 0.00%

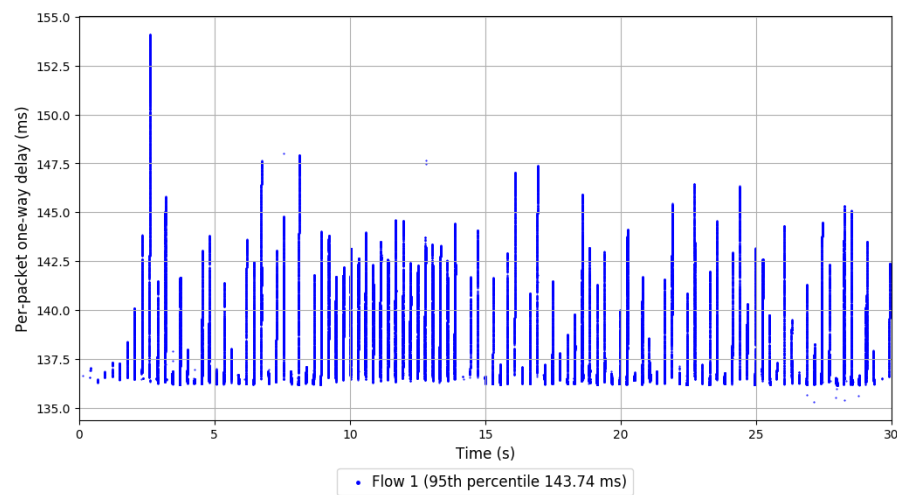
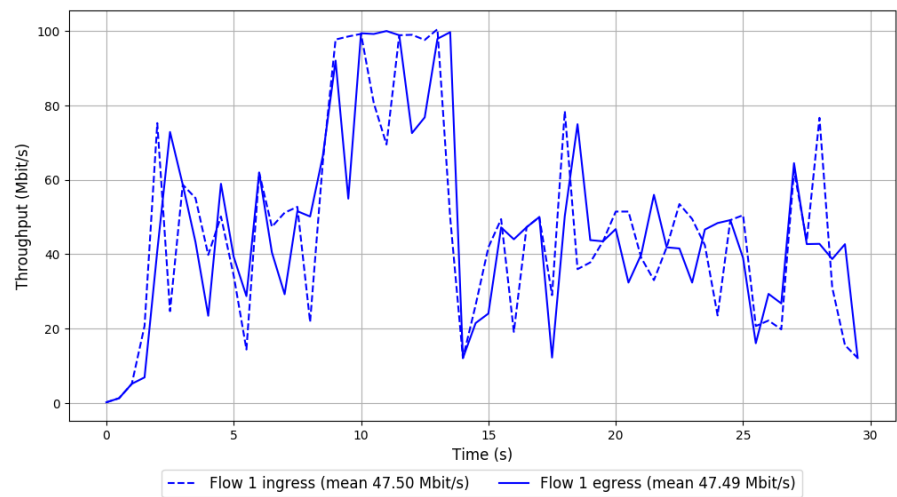
-- Flow 1:

Average throughput: 47.49 Mbit/s

95th percentile per-packet one-way delay: 143.740 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-11 20:21:17

End at: 2017-12-11 20:21:47

Below is generated by plot.py at 2017-12-11 21:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 144.138 ms

Loss rate: 0.03%

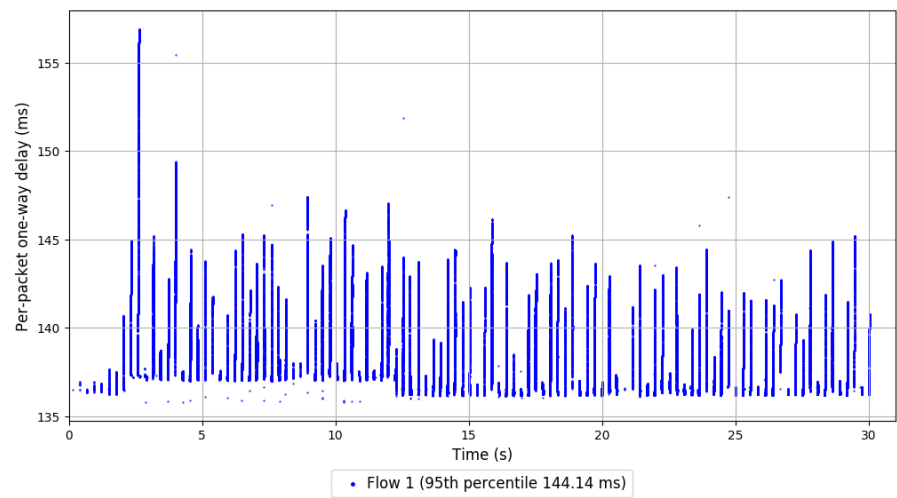
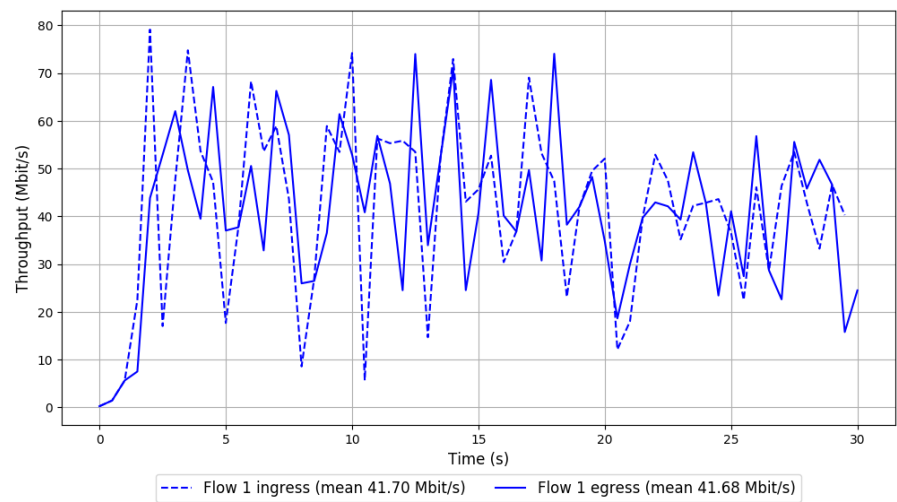
-- Flow 1:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 144.138 ms

Loss rate: 0.03%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-11 20:32:33

End at: 2017-12-11 20:33:03

Below is generated by plot.py at 2017-12-11 21:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.23 Mbit/s

95th percentile per-packet one-way delay: 146.044 ms

Loss rate: 0.00%

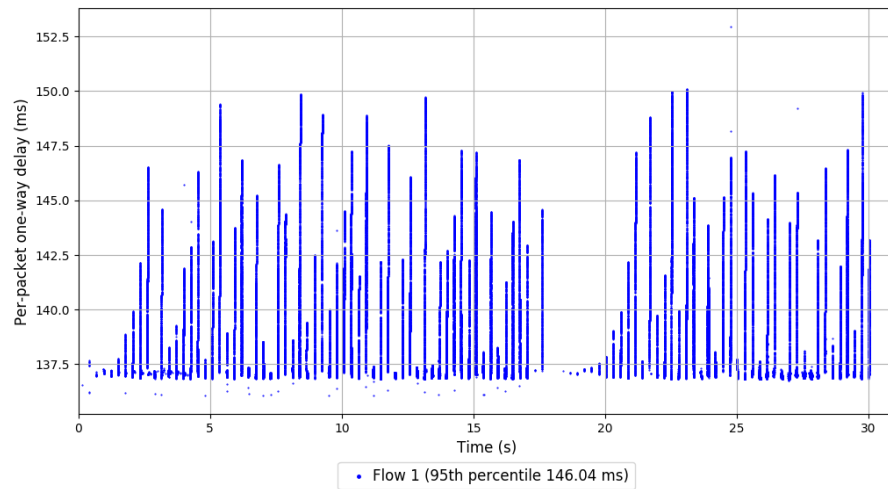
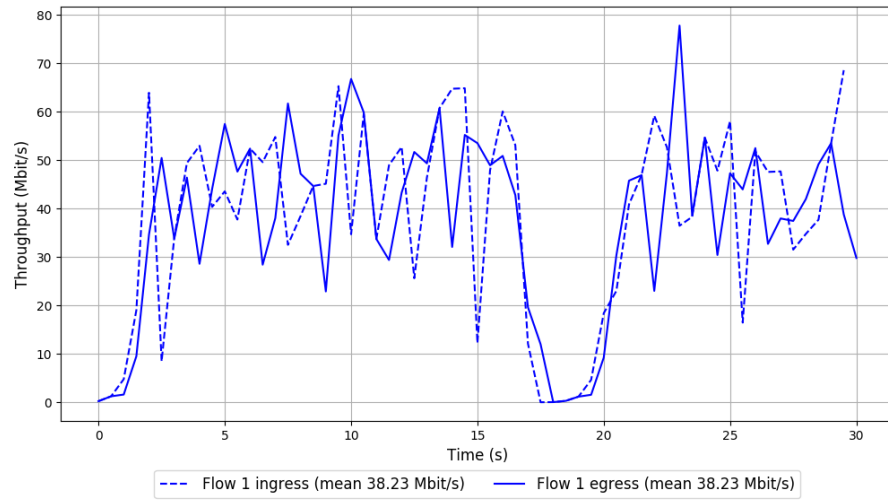
-- Flow 1:

Average throughput: 38.23 Mbit/s

95th percentile per-packet one-way delay: 146.044 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-11 20:43:42

End at: 2017-12-11 20:44:12

Below is generated by plot.py at 2017-12-11 21:48:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.49 Mbit/s

95th percentile per-packet one-way delay: 146.772 ms

Loss rate: 0.61%

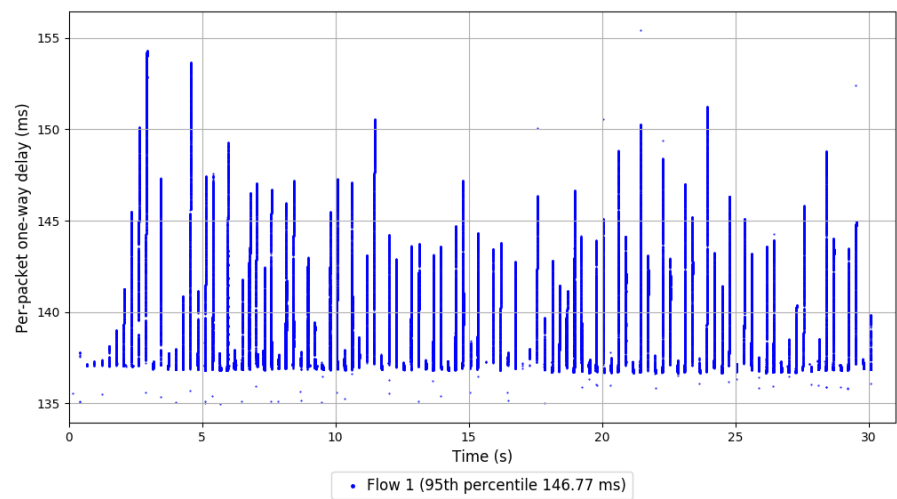
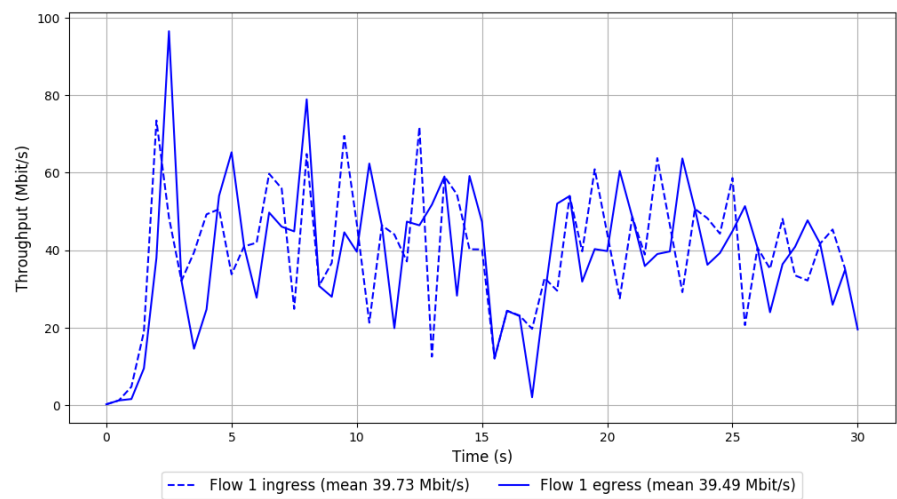
-- Flow 1:

Average throughput: 39.49 Mbit/s

95th percentile per-packet one-way delay: 146.772 ms

Loss rate: 0.61%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-11 20:55:06

End at: 2017-12-11 20:55:36

Below is generated by plot.py at 2017-12-11 21:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.81 Mbit/s

95th percentile per-packet one-way delay: 145.593 ms

Loss rate: 0.79%

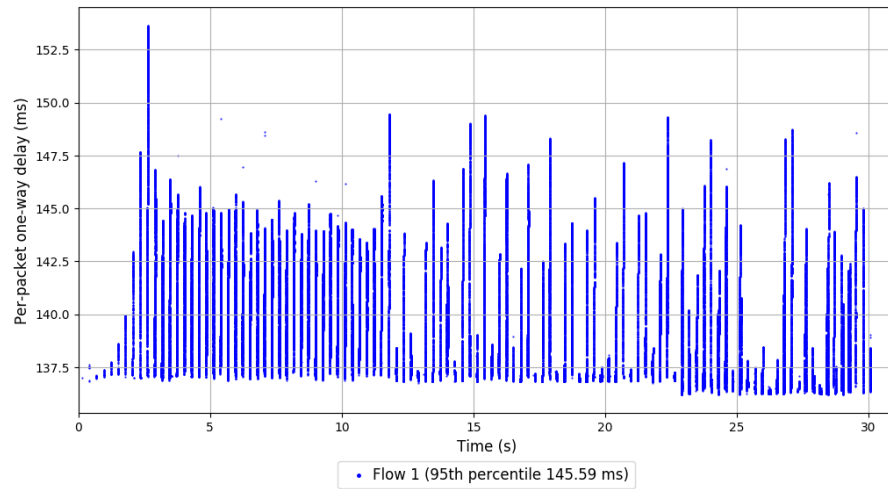
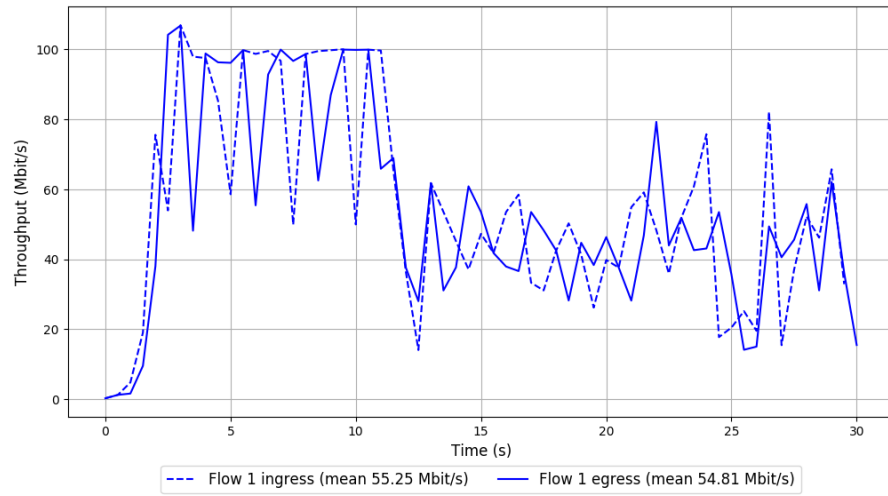
-- Flow 1:

Average throughput: 54.81 Mbit/s

95th percentile per-packet one-way delay: 145.593 ms

Loss rate: 0.79%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-11 21:06:38

End at: 2017-12-11 21:07:08

Below is generated by plot.py at 2017-12-11 21:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 144.238 ms

Loss rate: 0.18%

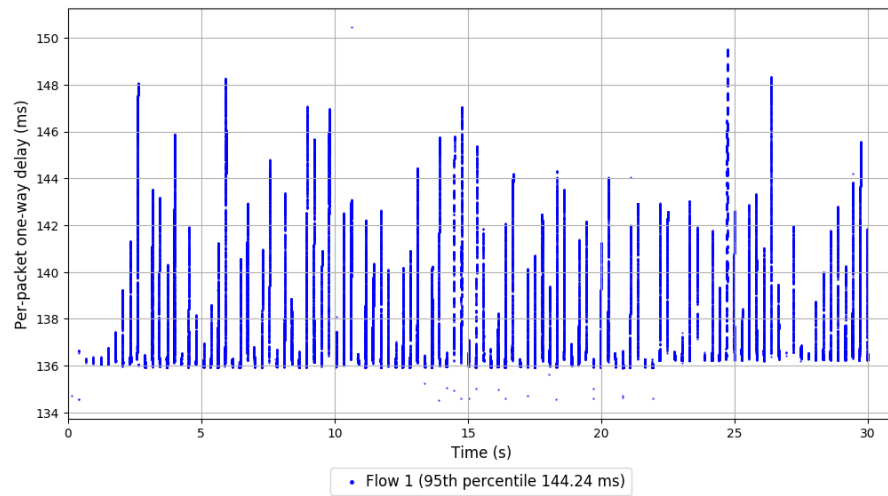
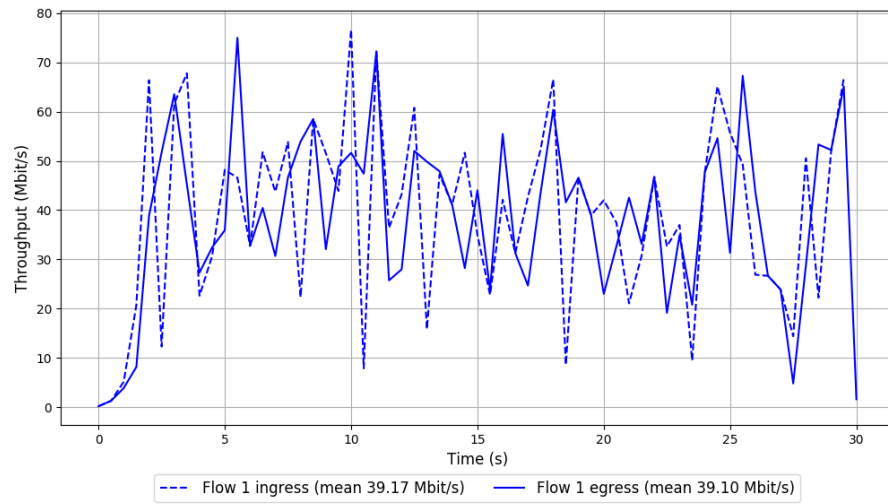
-- Flow 1:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 144.238 ms

Loss rate: 0.18%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 19:25:02

End at: 2017-12-11 19:25:32

Below is generated by plot.py at 2017-12-11 21:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.44 Mbit/s

95th percentile per-packet one-way delay: 139.715 ms

Loss rate: 0.00%

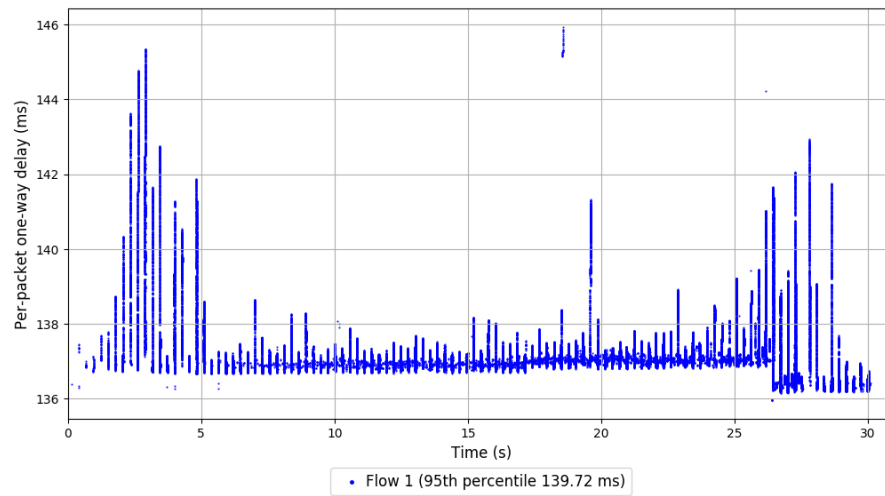
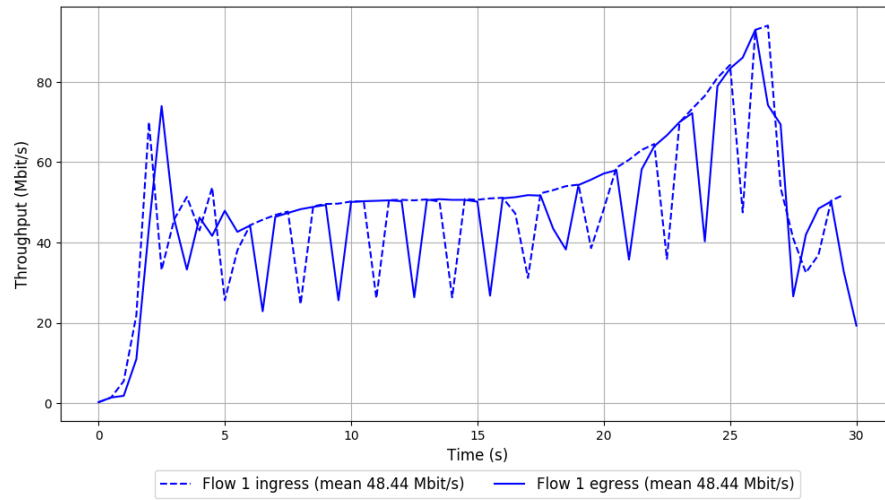
-- Flow 1:

Average throughput: 48.44 Mbit/s

95th percentile per-packet one-way delay: 139.715 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 19:36:32

End at: 2017-12-11 19:37:02

Below is generated by plot.py at 2017-12-11 21:48:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.84 Mbit/s

95th percentile per-packet one-way delay: 141.282 ms

Loss rate: 0.00%

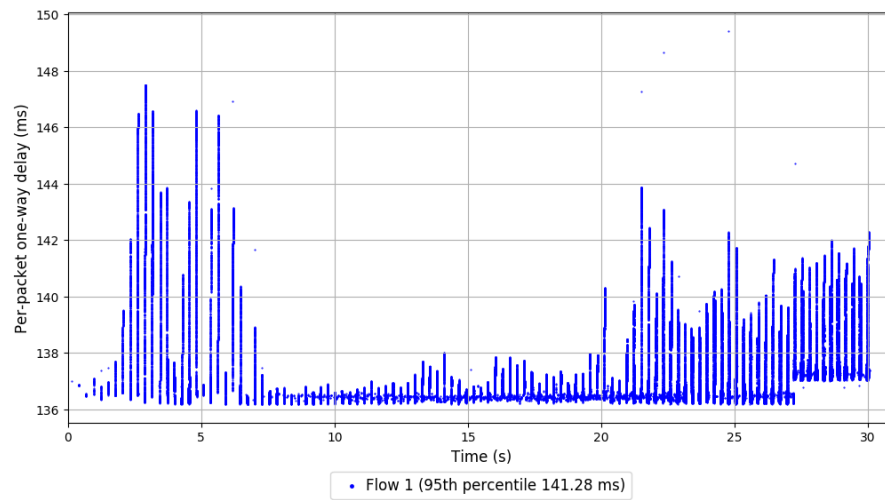
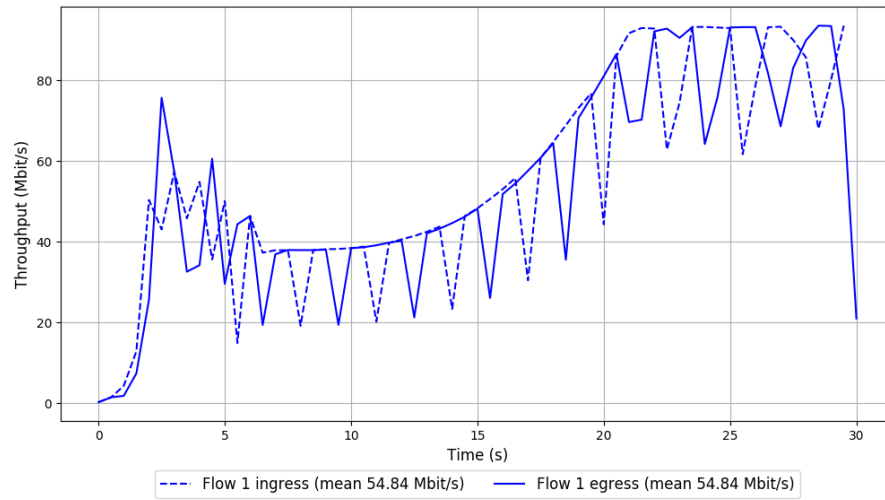
-- Flow 1:

Average throughput: 54.84 Mbit/s

95th percentile per-packet one-way delay: 141.282 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 19:48:10

End at: 2017-12-11 19:48:40

Below is generated by plot.py at 2017-12-11 21:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.96 Mbit/s

95th percentile per-packet one-way delay: 144.861 ms

Loss rate: 0.00%

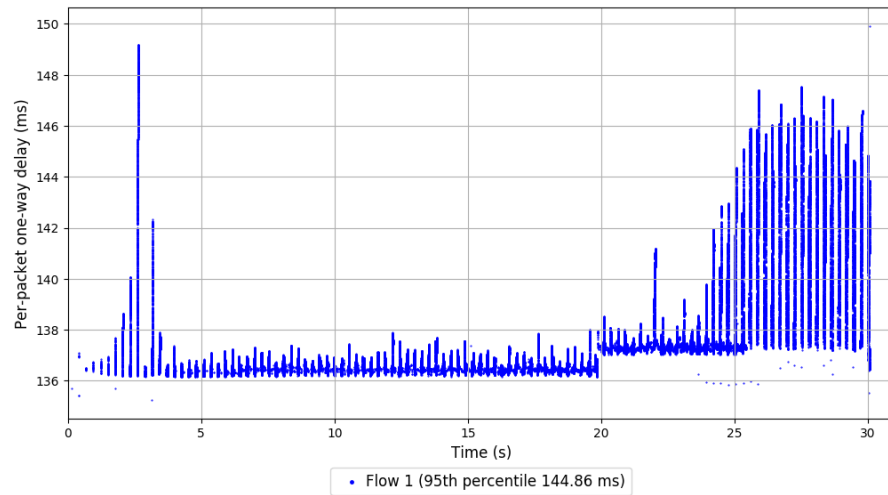
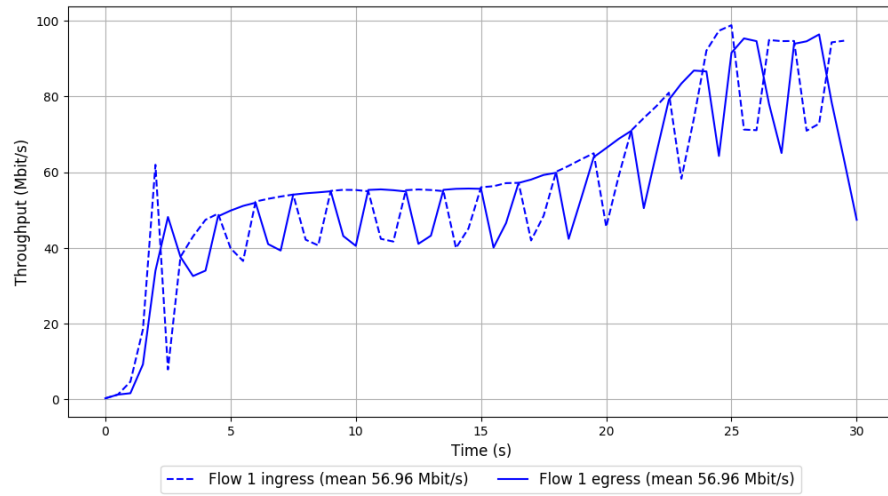
-- Flow 1:

Average throughput: 56.96 Mbit/s

95th percentile per-packet one-way delay: 144.861 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 19:59:49

End at: 2017-12-11 20:00:19

Below is generated by plot.py at 2017-12-11 21:49:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.39 Mbit/s

95th percentile per-packet one-way delay: 142.292 ms

Loss rate: 0.00%

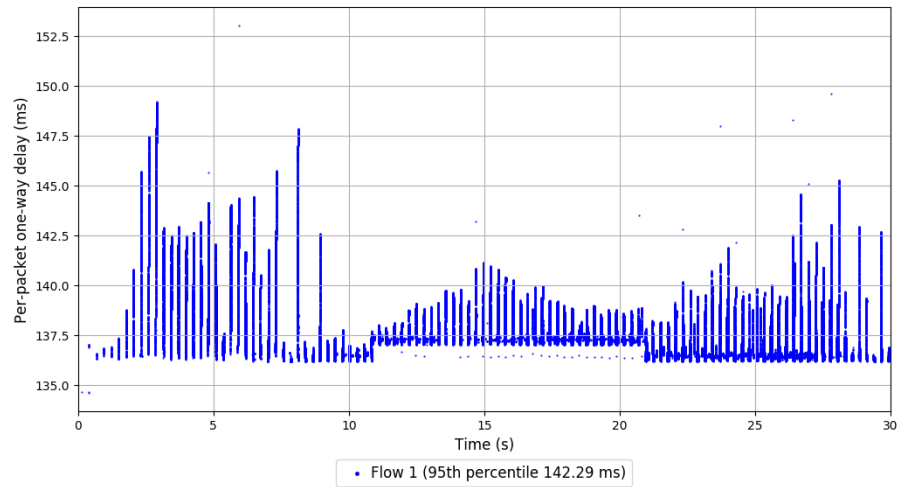
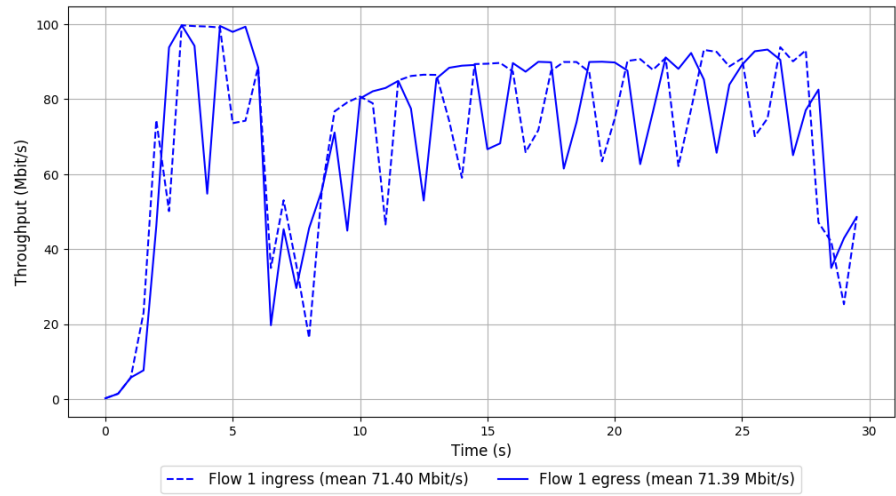
-- Flow 1:

Average throughput: 71.39 Mbit/s

95th percentile per-packet one-way delay: 142.292 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 20:11:32

End at: 2017-12-11 20:12:02

Below is generated by plot.py at 2017-12-11 21:49:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 139.934 ms

Loss rate: 0.89%

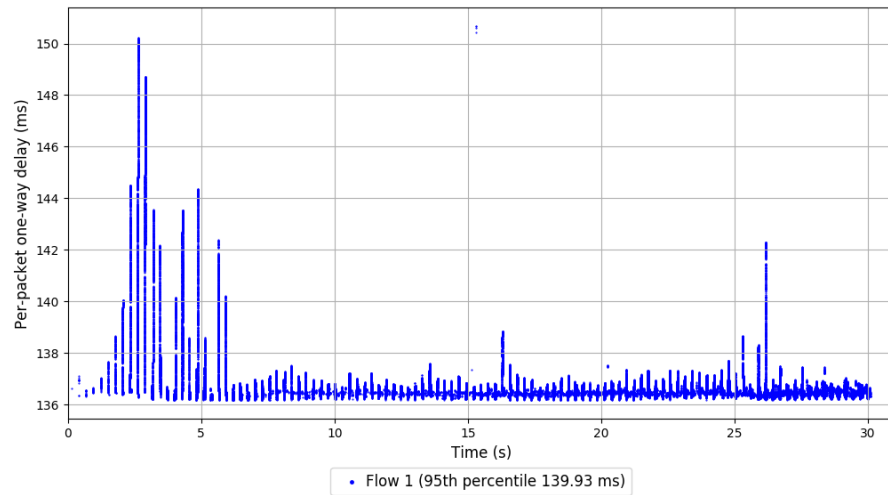
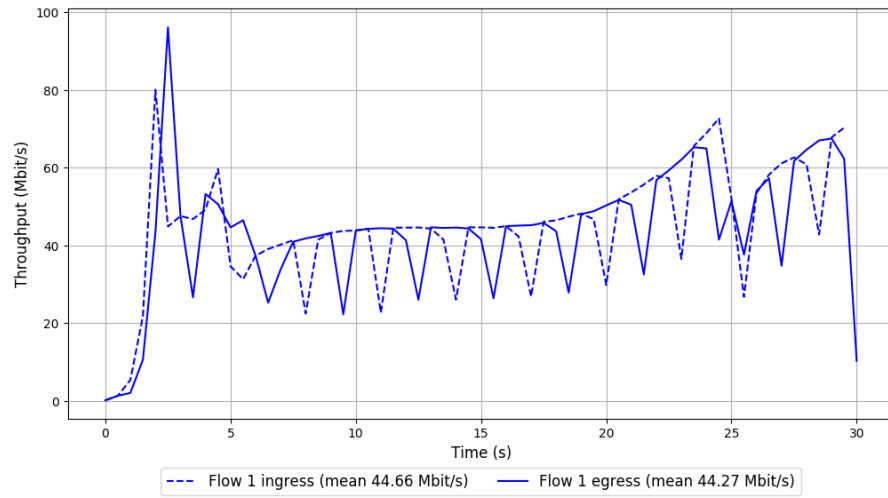
-- Flow 1:

Average throughput: 44.27 Mbit/s

95th percentile per-packet one-way delay: 139.934 ms

Loss rate: 0.89%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 20:22:46

End at: 2017-12-11 20:23:16

Below is generated by plot.py at 2017-12-11 21:49:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 142.042 ms

Loss rate: 0.00%

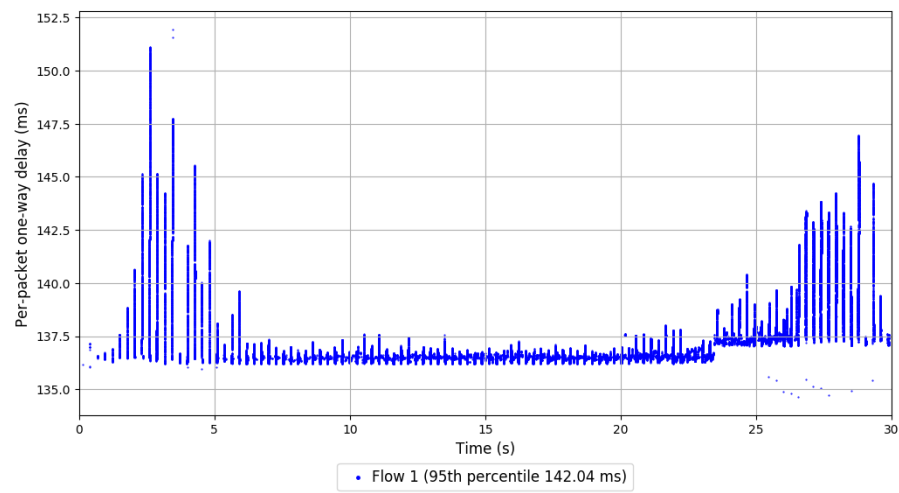
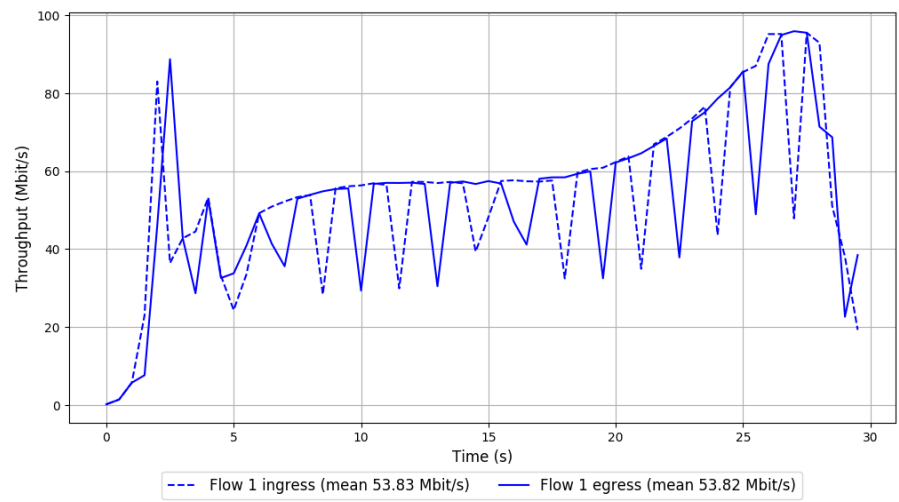
-- Flow 1:

Average throughput: 53.82 Mbit/s

95th percentile per-packet one-way delay: 142.042 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 20:34:01

End at: 2017-12-11 20:34:31

Below is generated by plot.py at 2017-12-11 21:49:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 144.097 ms

Loss rate: 0.00%

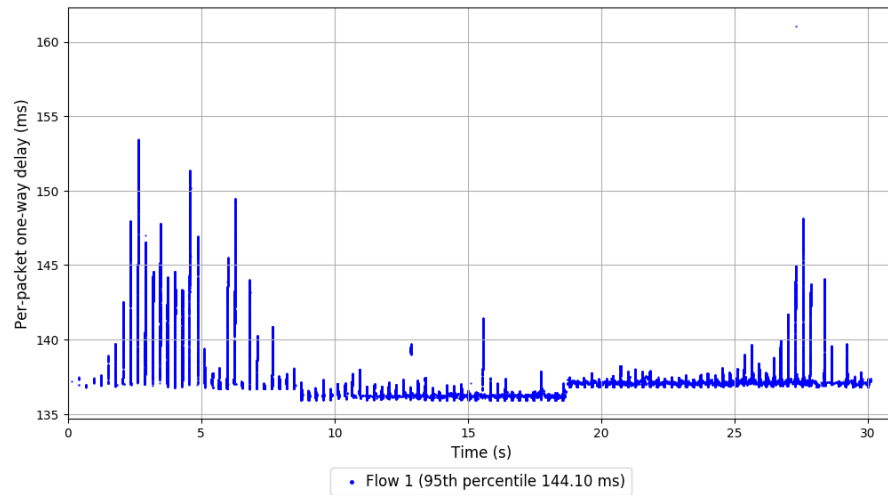
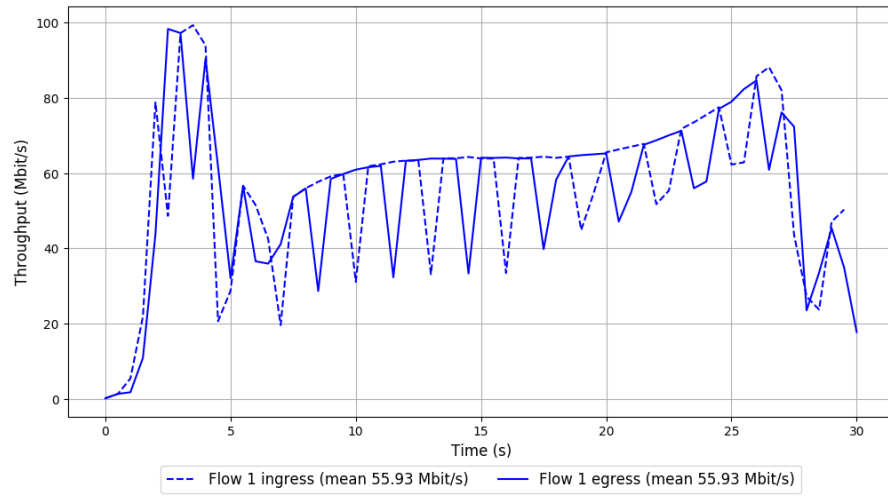
-- Flow 1:

Average throughput: 55.93 Mbit/s

95th percentile per-packet one-way delay: 144.097 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 20:45:10

End at: 2017-12-11 20:45:40

Below is generated by plot.py at 2017-12-11 21:49:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.09 Mbit/s

95th percentile per-packet one-way delay: 141.799 ms

Loss rate: 0.00%

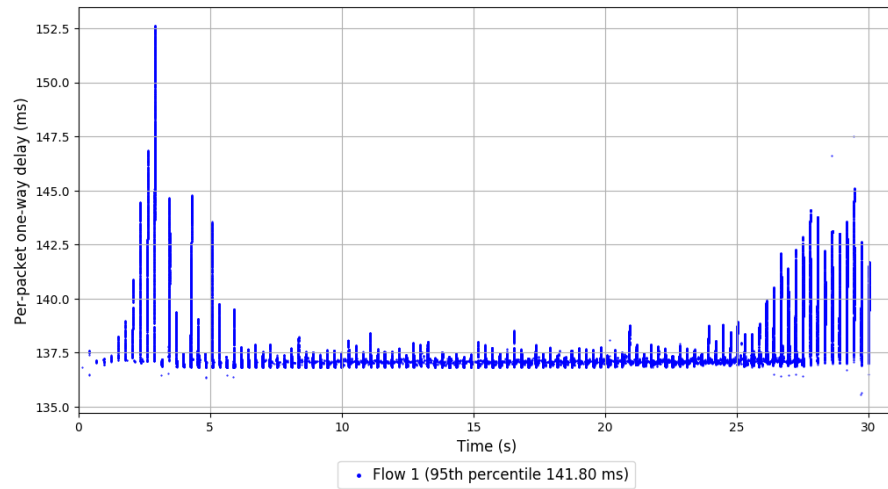
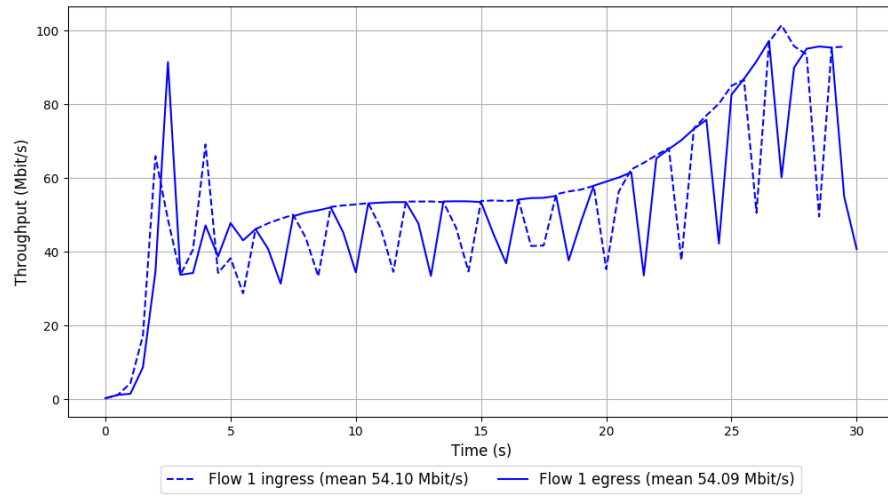
-- Flow 1:

Average throughput: 54.09 Mbit/s

95th percentile per-packet one-way delay: 141.799 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 20:56:35

End at: 2017-12-11 20:57:05

Below is generated by plot.py at 2017-12-11 21:49:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 140.443 ms

Loss rate: 0.03%

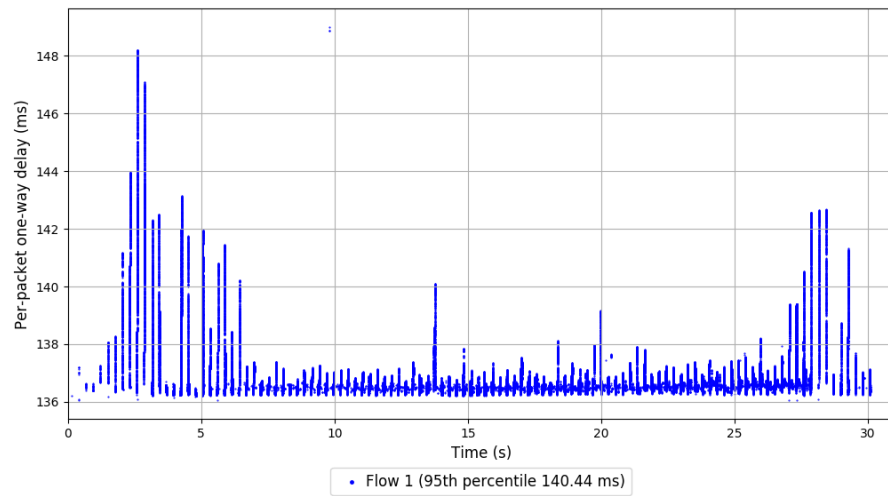
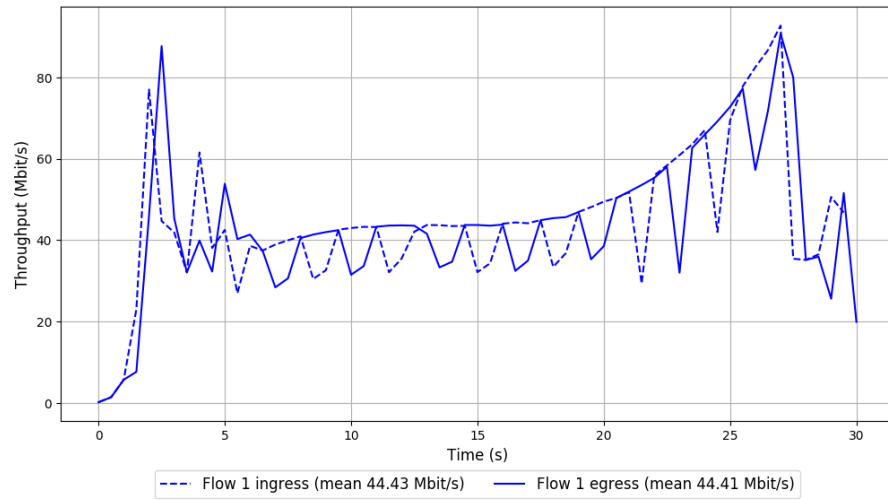
-- Flow 1:

Average throughput: 44.41 Mbit/s

95th percentile per-packet one-way delay: 140.443 ms

Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 21:08:06

End at: 2017-12-11 21:08:36

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 141.758 ms

Loss rate: 0.00%

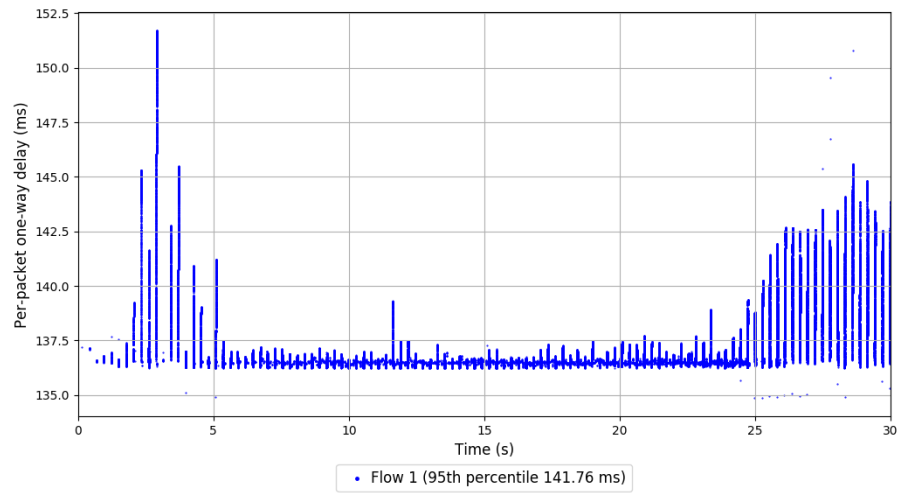
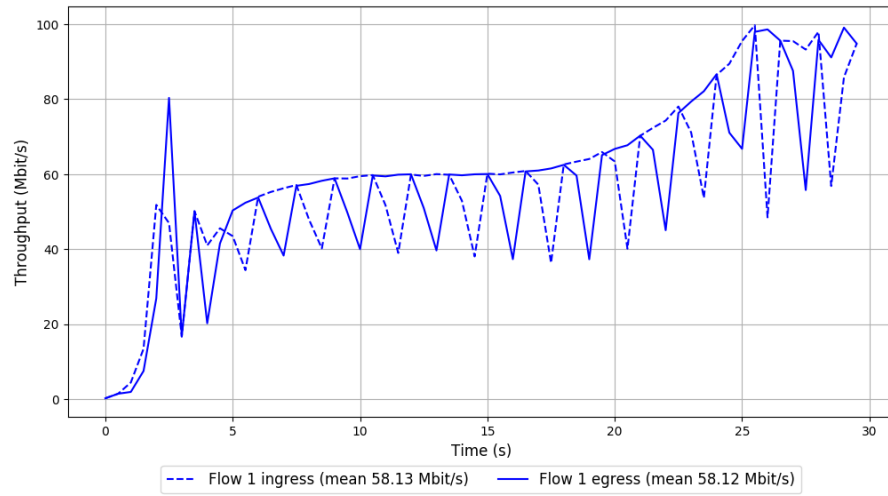
-- Flow 1:

Average throughput: 58.12 Mbit/s

95th percentile per-packet one-way delay: 141.758 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

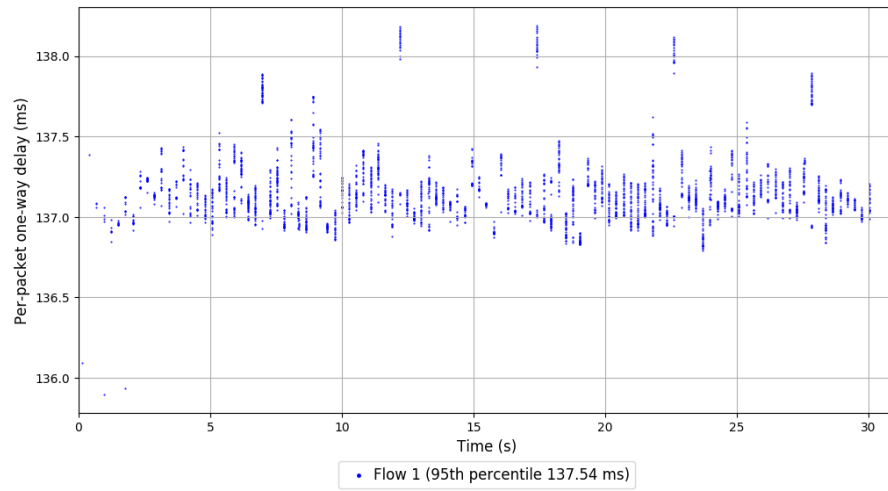
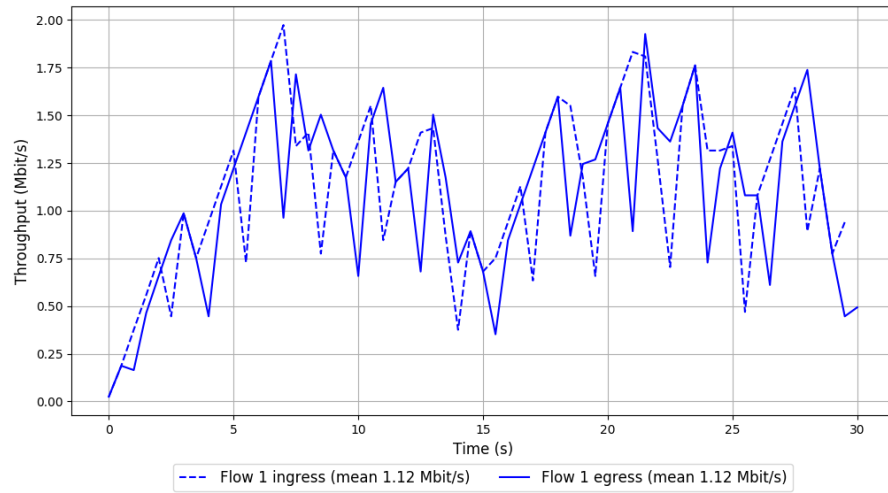


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-11 19:17:52
End at: 2017-12-11 19:18:22

# Below is generated by plot.py at 2017-12-11 21:49:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 137.540 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 137.540 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-12-11 19:29:25

End at: 2017-12-11 19:29:55

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 137.666 ms

Loss rate: 0.00%

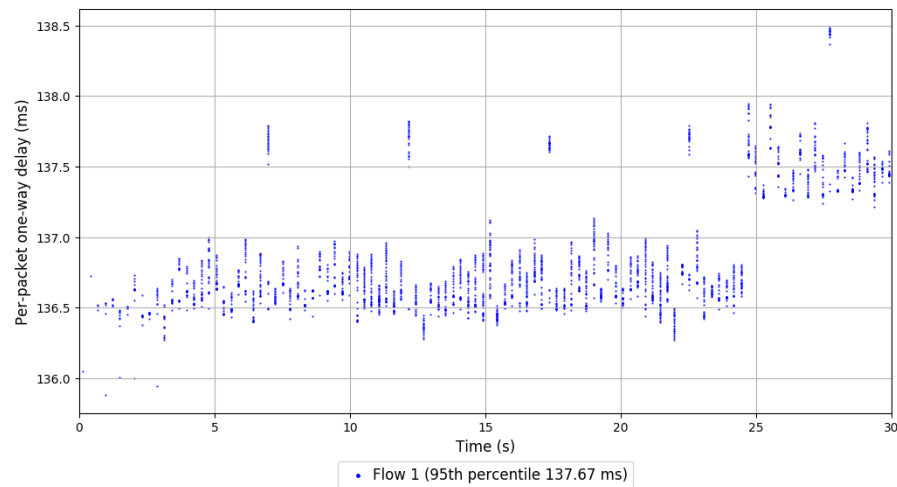
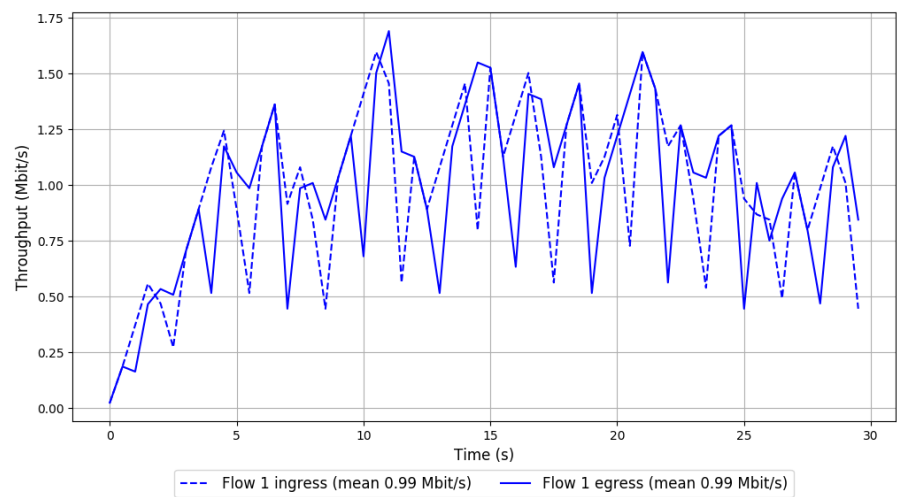
-- Flow 1:

Average throughput: 0.99 Mbit/s

95th percentile per-packet one-way delay: 137.666 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-11 19:40:56

End at: 2017-12-11 19:41:26

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 137.889 ms

Loss rate: 0.02%

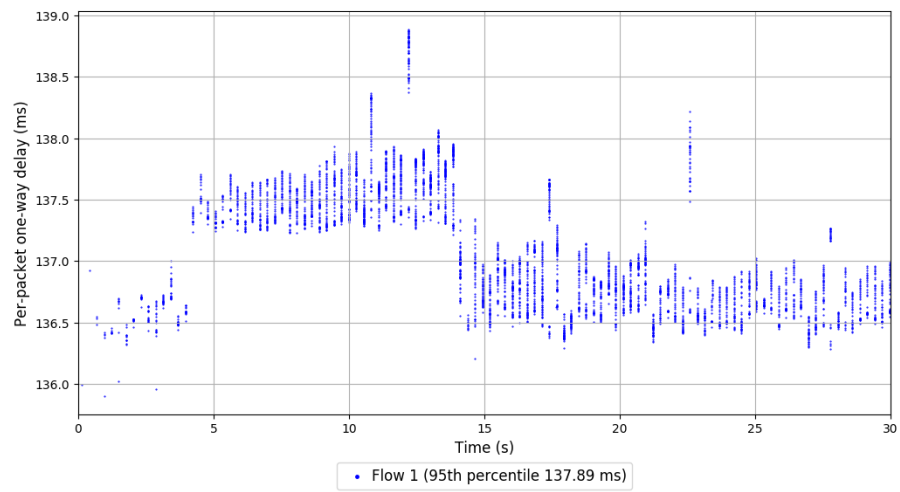
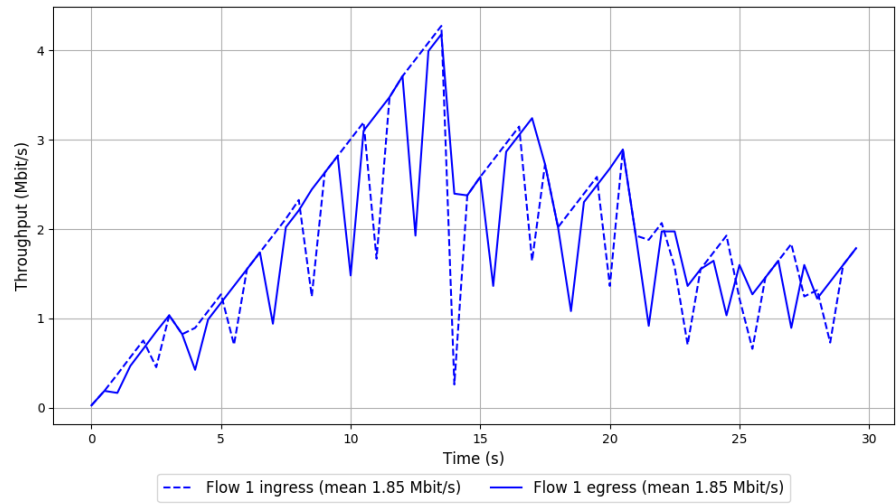
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 137.889 ms

Loss rate: 0.02%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-11 19:52:33

End at: 2017-12-11 19:53:03

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 137.009 ms

Loss rate: 0.00%

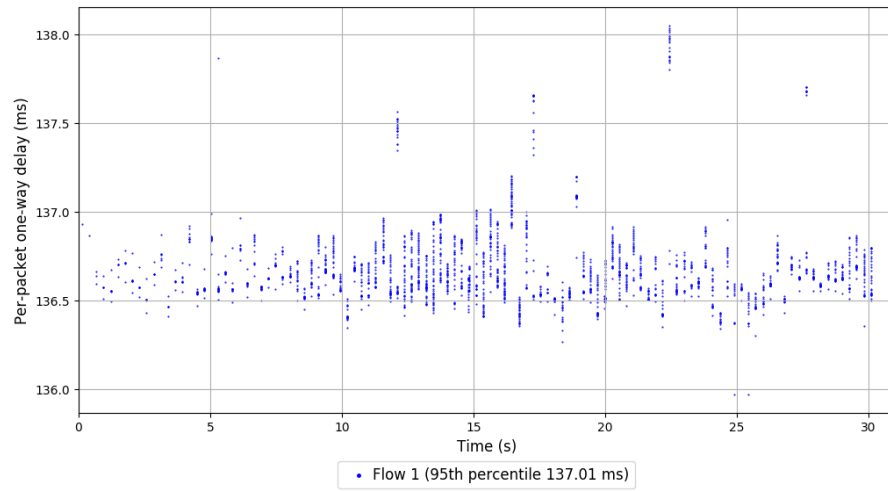
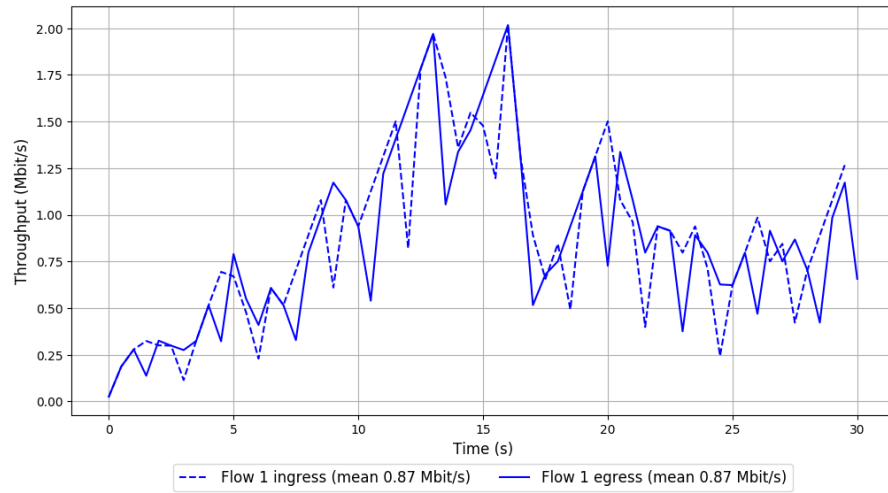
-- Flow 1:

Average throughput: 0.87 Mbit/s

95th percentile per-packet one-way delay: 137.009 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-11 20:04:13

End at: 2017-12-11 20:04:43

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 137.676 ms

Loss rate: 0.00%

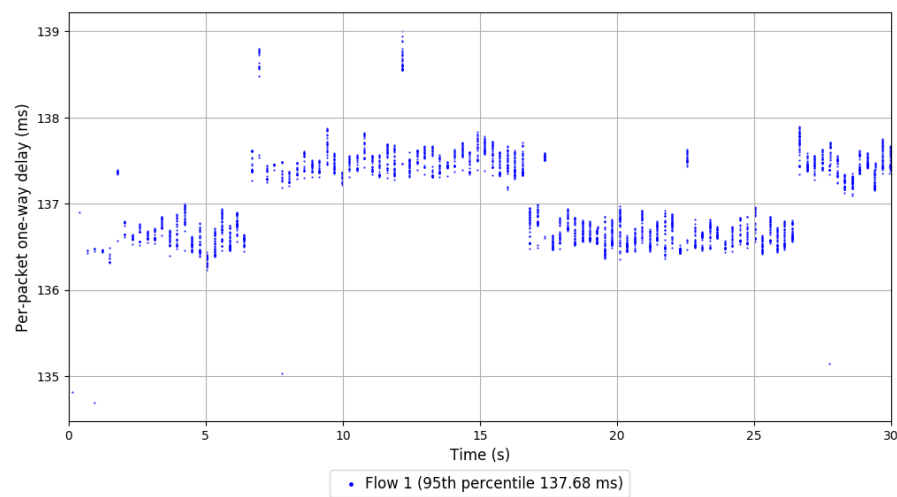
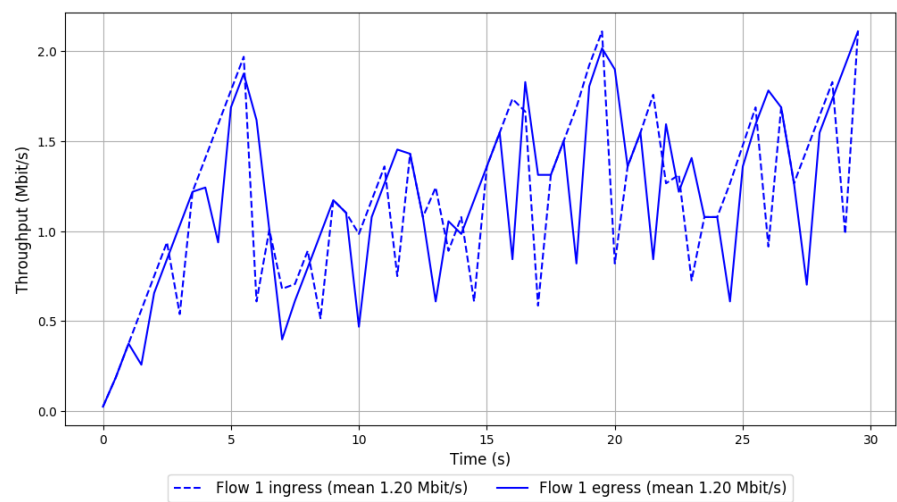
-- Flow 1:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 137.676 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-11 20:15:54

End at: 2017-12-11 20:16:24

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 137.017 ms

Loss rate: 0.00%

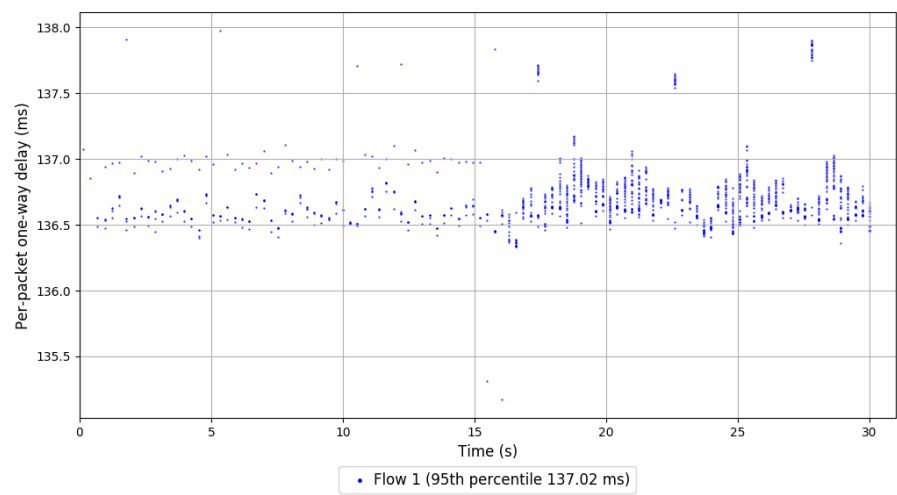
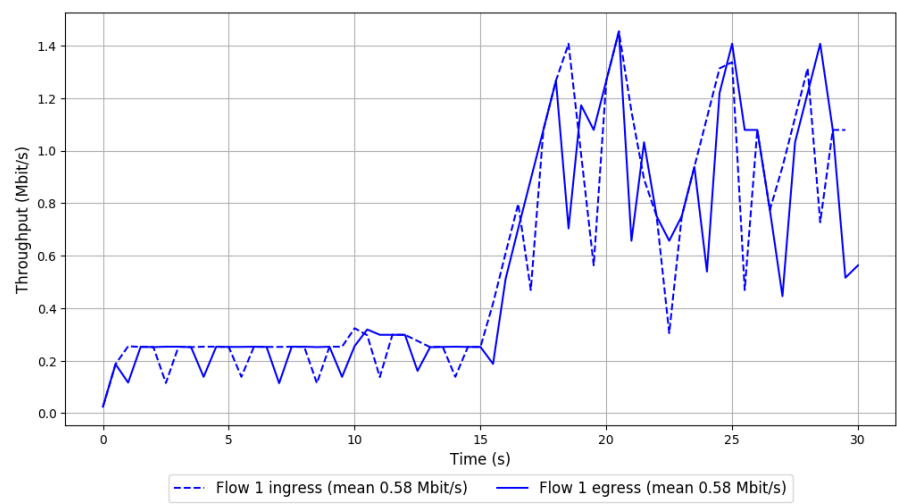
-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 137.017 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-11 20:27:08

End at: 2017-12-11 20:27:38

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 137.550 ms

Loss rate: 0.00%

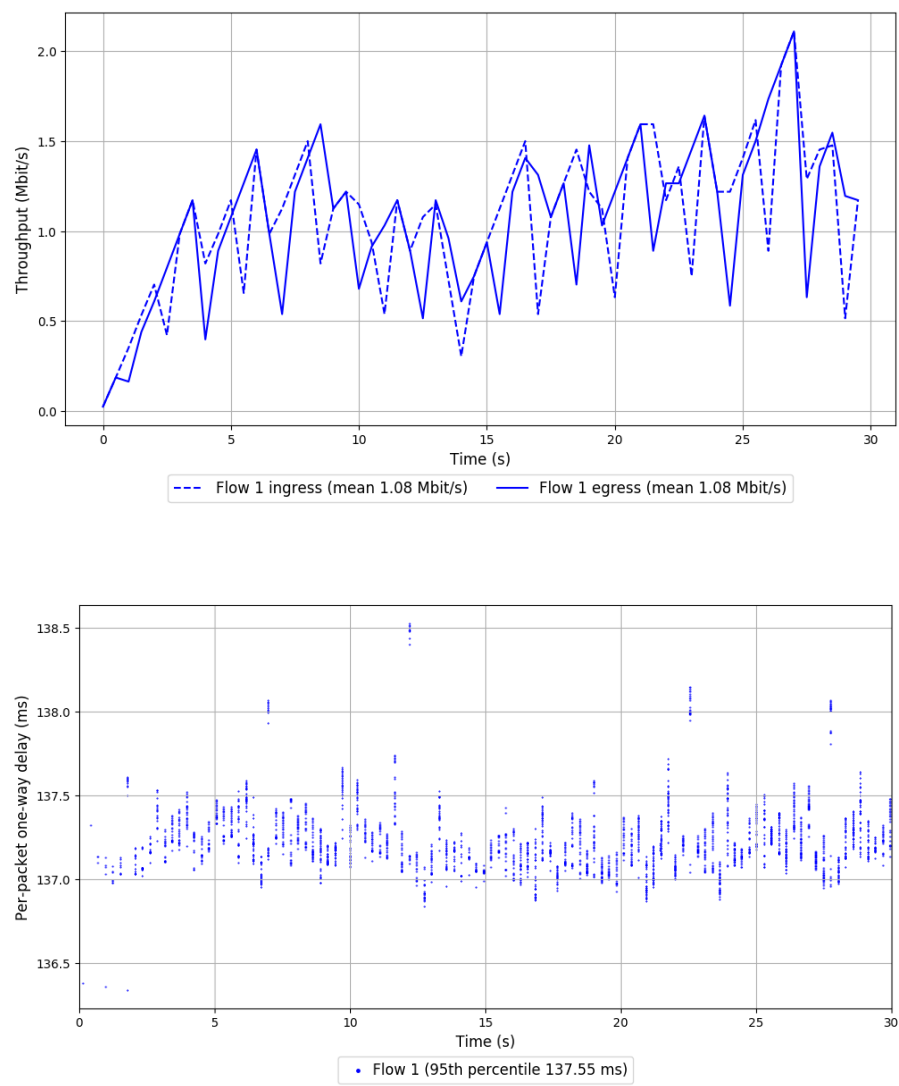
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 137.550 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-11 20:38:24

End at: 2017-12-11 20:38:54

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 137.617 ms

Loss rate: 0.00%

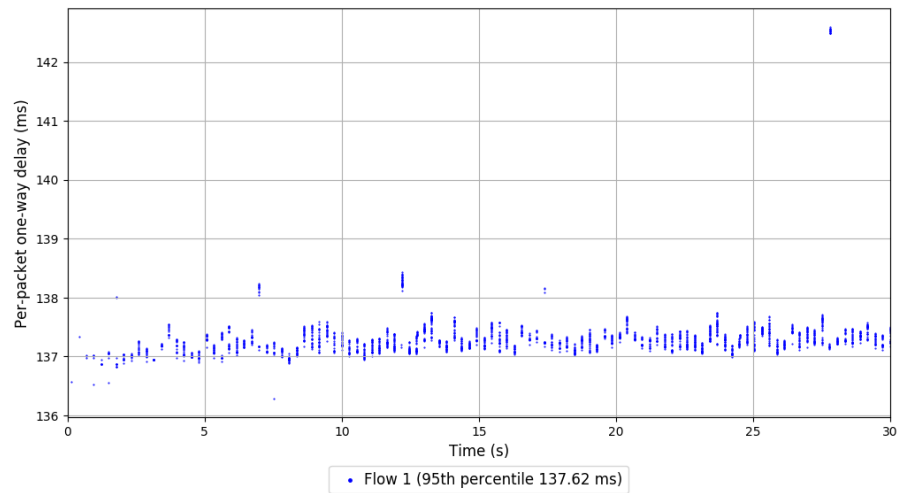
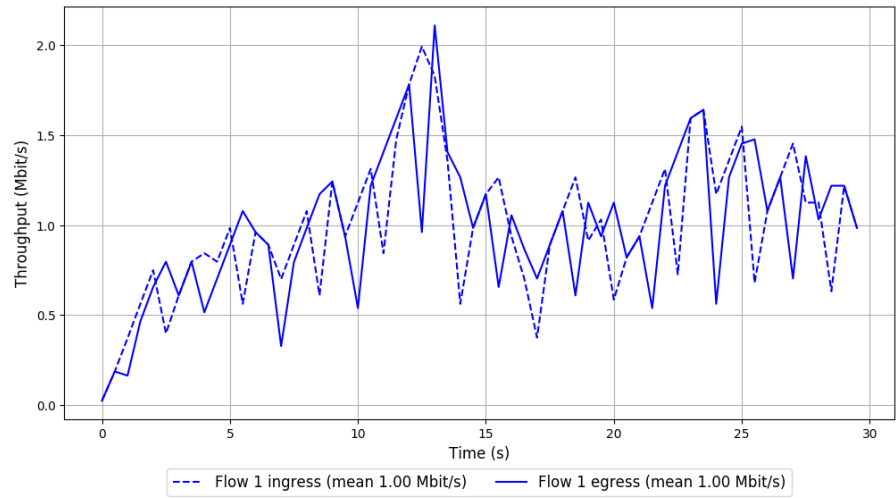
-- Flow 1:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 137.617 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-11 20:49:30

End at: 2017-12-11 20:50:00

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 137.613 ms

Loss rate: 0.00%

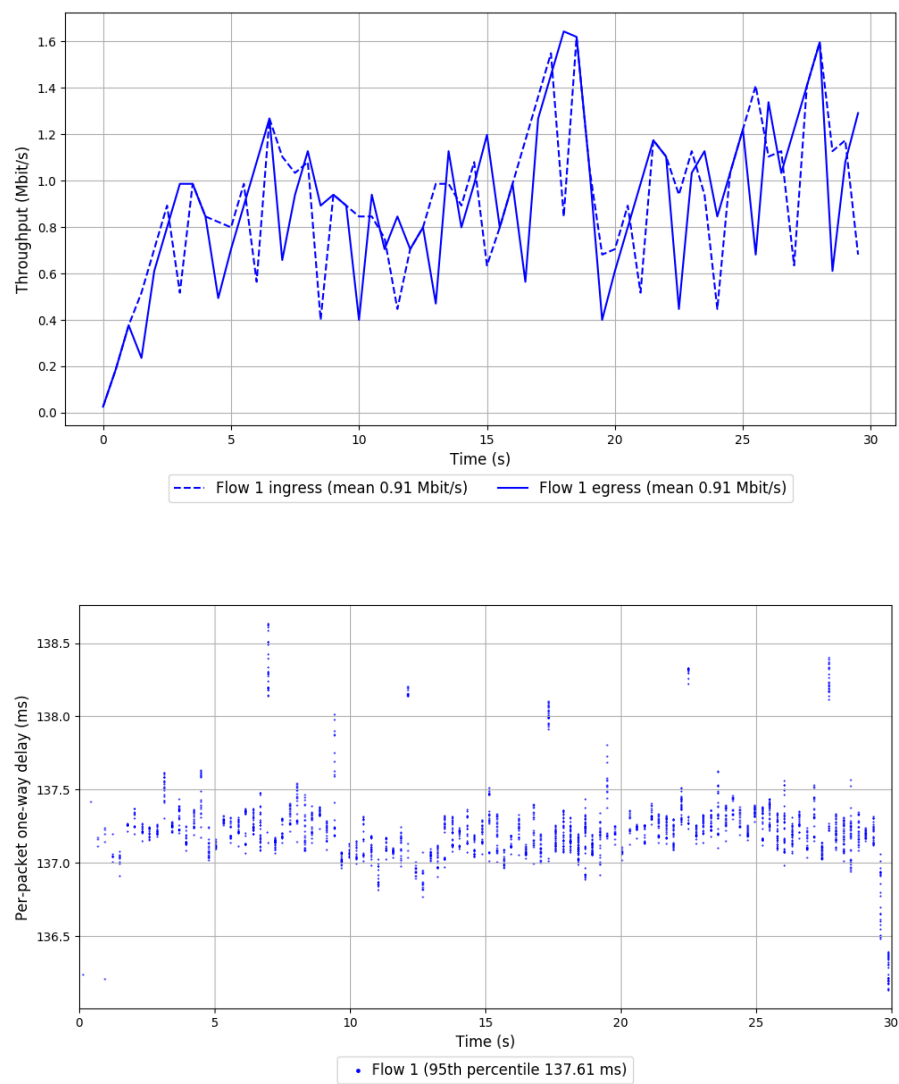
-- Flow 1:

Average throughput: 0.91 Mbit/s

95th percentile per-packet one-way delay: 137.613 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 21:00:56

End at: 2017-12-11 21:01:26

Below is generated by plot.py at 2017-12-11 21:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.012 ms

Loss rate: 0.00%

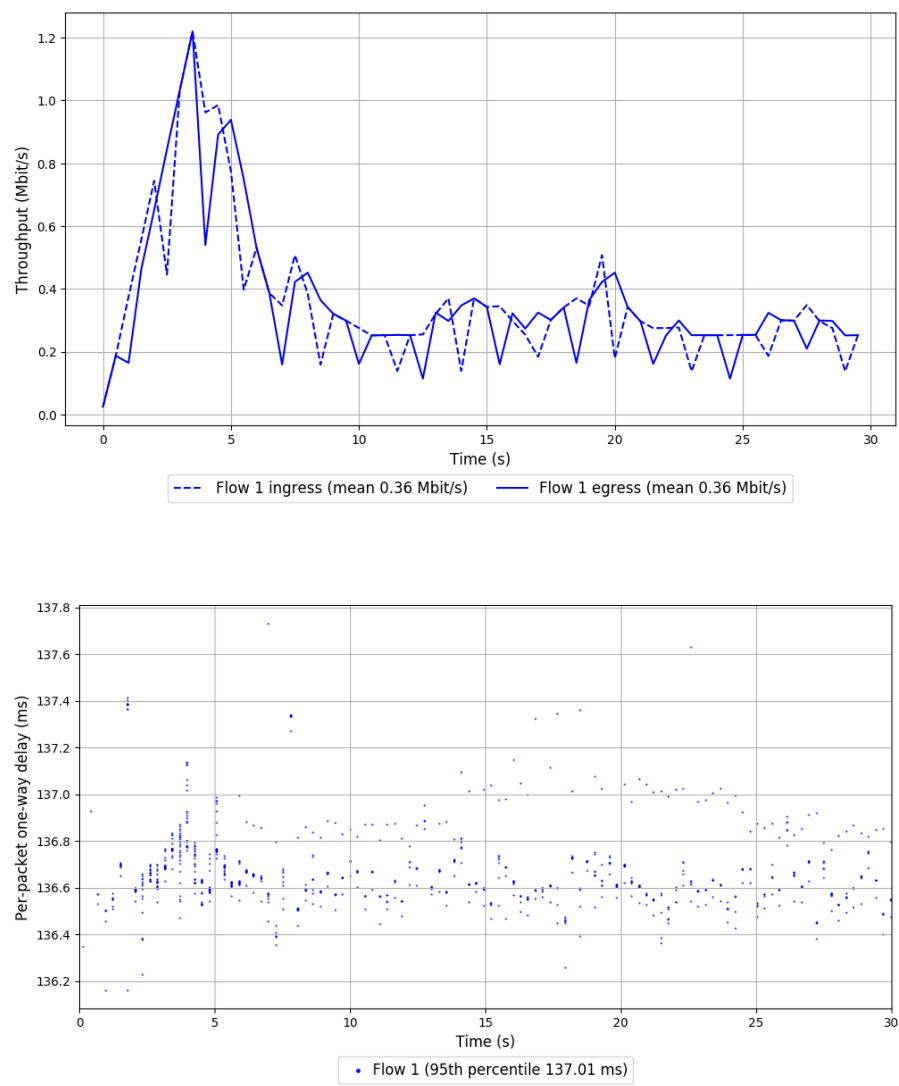
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.012 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

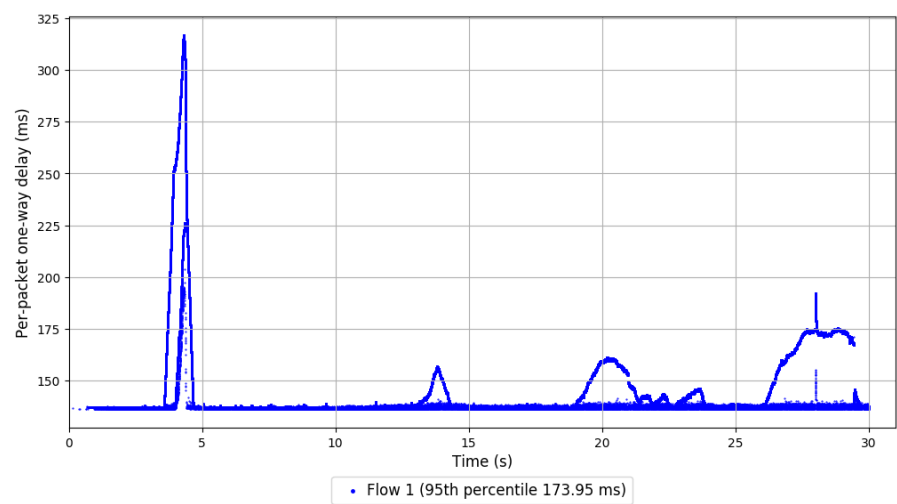
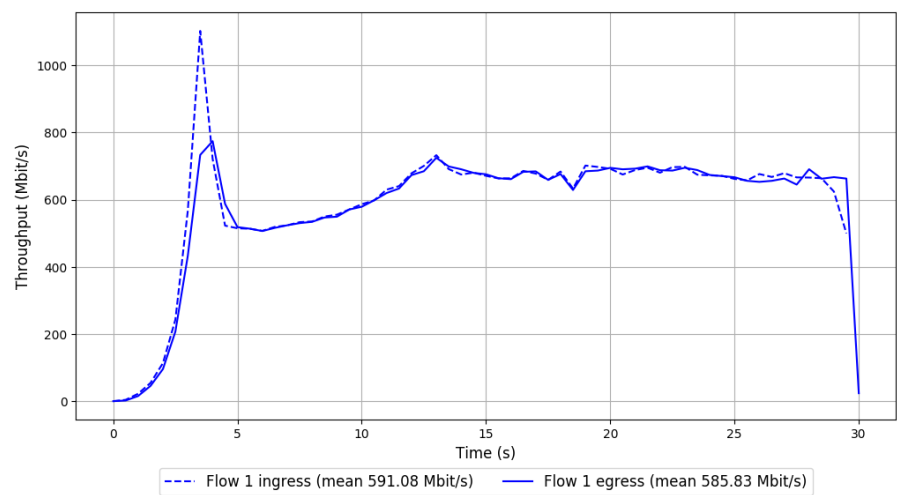


```
Run 1: Statistics of PCC

Start at: 2017-12-11 19:15:11
End at: 2017-12-11 19:15:41

# Below is generated by plot.py at 2017-12-11 21:58:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.83 Mbit/s
95th percentile per-packet one-way delay: 173.953 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 585.83 Mbit/s
95th percentile per-packet one-way delay: 173.953 ms
Loss rate: 0.89%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-11 19:26:43

End at: 2017-12-11 19:27:13

Below is generated by plot.py at 2017-12-11 21:58:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 580.45 Mbit/s

95th percentile per-packet one-way delay: 177.581 ms

Loss rate: 1.06%

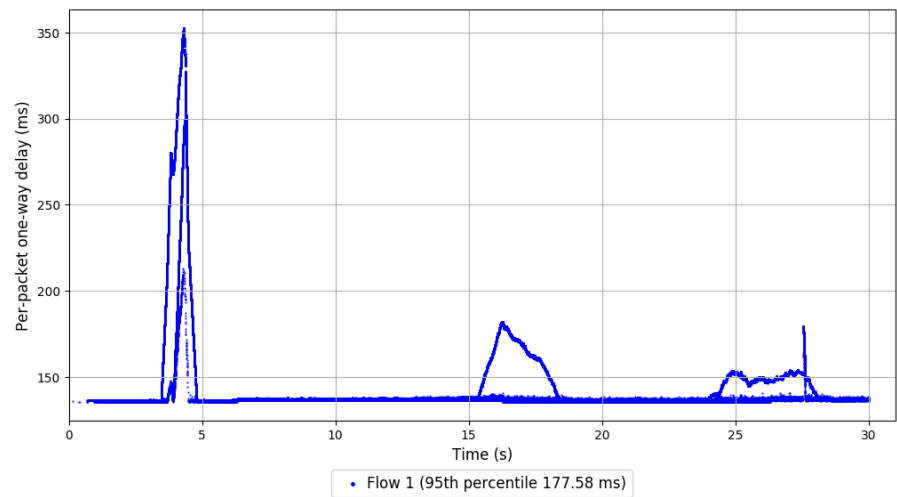
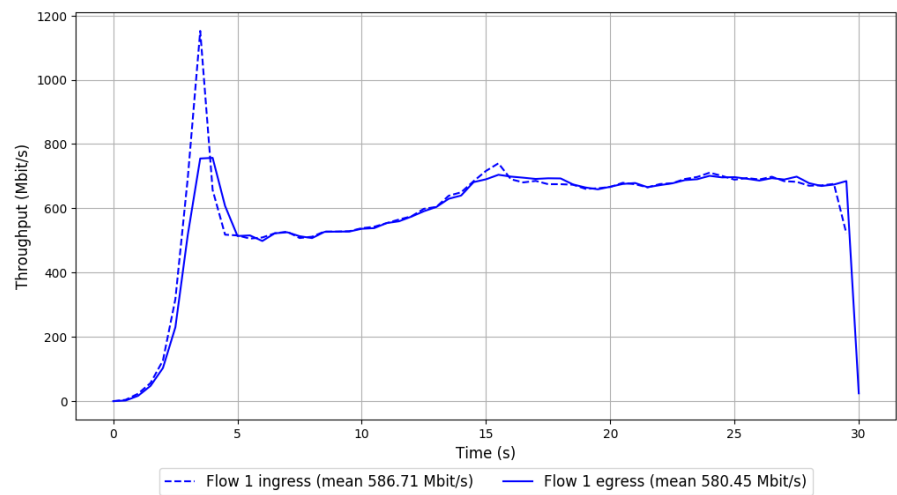
-- Flow 1:

Average throughput: 580.45 Mbit/s

95th percentile per-packet one-way delay: 177.581 ms

Loss rate: 1.06%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-11 19:38:13

End at: 2017-12-11 19:38:43

Below is generated by plot.py at 2017-12-11 21:58:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 588.59 Mbit/s

95th percentile per-packet one-way delay: 250.488 ms

Loss rate: 1.37%

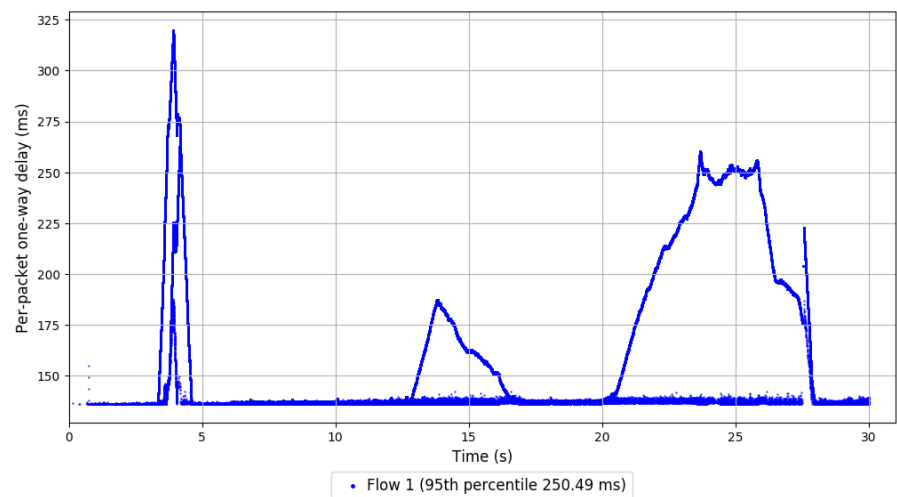
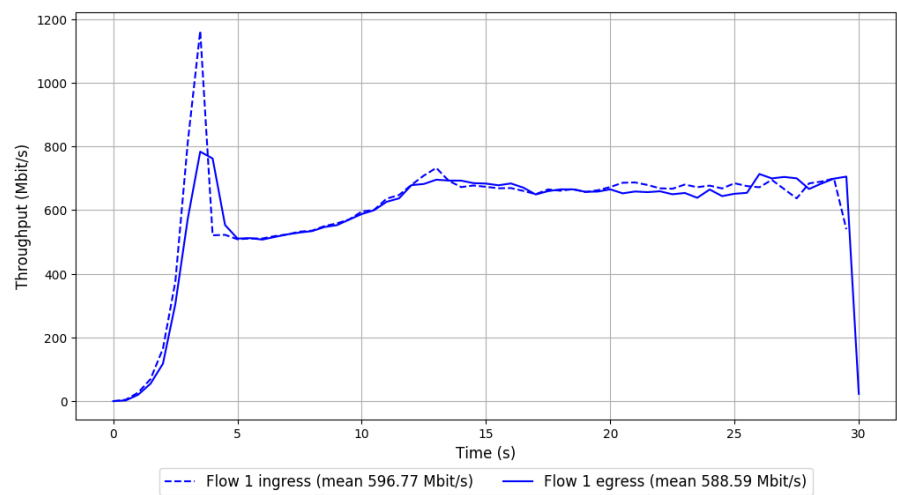
-- Flow 1:

Average throughput: 588.59 Mbit/s

95th percentile per-packet one-way delay: 250.488 ms

Loss rate: 1.37%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-11 19:49:51

End at: 2017-12-11 19:50:21

Below is generated by plot.py at 2017-12-11 21:58:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 576.07 Mbit/s

95th percentile per-packet one-way delay: 181.660 ms

Loss rate: 1.27%

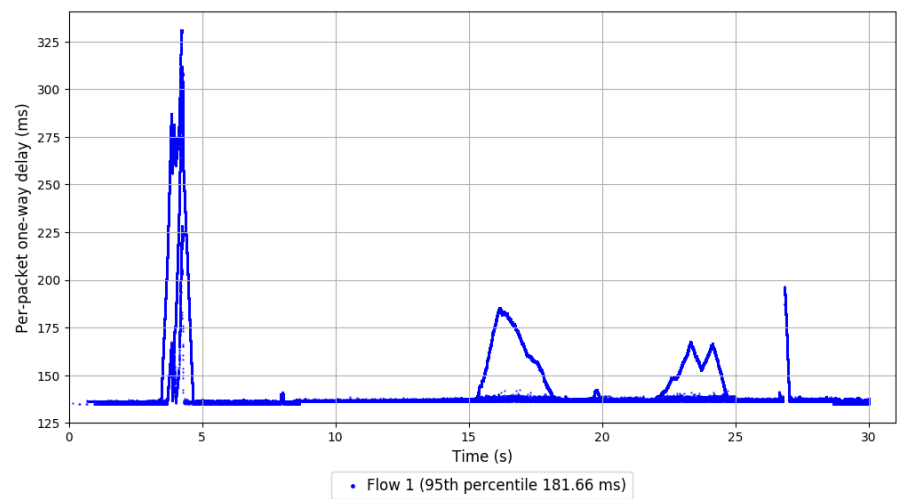
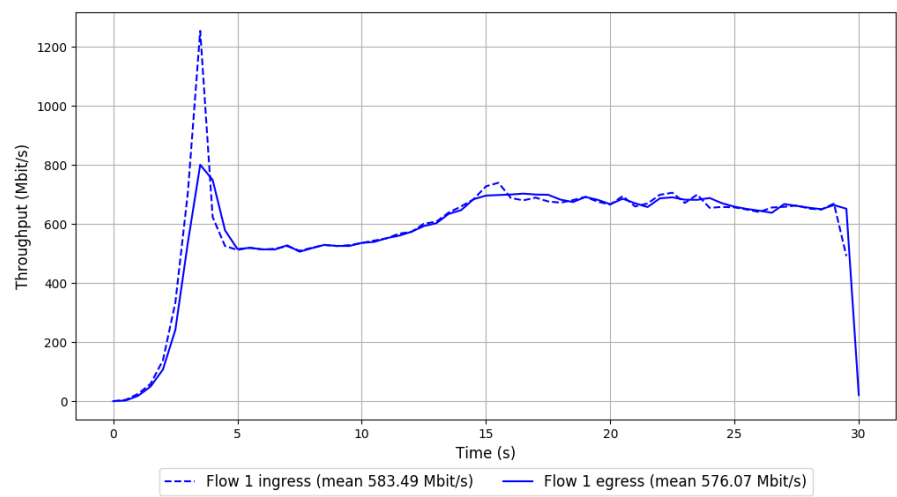
-- Flow 1:

Average throughput: 576.07 Mbit/s

95th percentile per-packet one-way delay: 181.660 ms

Loss rate: 1.27%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-11 20:01:31

End at: 2017-12-11 20:02:01

Below is generated by plot.py at 2017-12-11 21:59:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.58 Mbit/s

95th percentile per-packet one-way delay: 214.840 ms

Loss rate: 1.12%

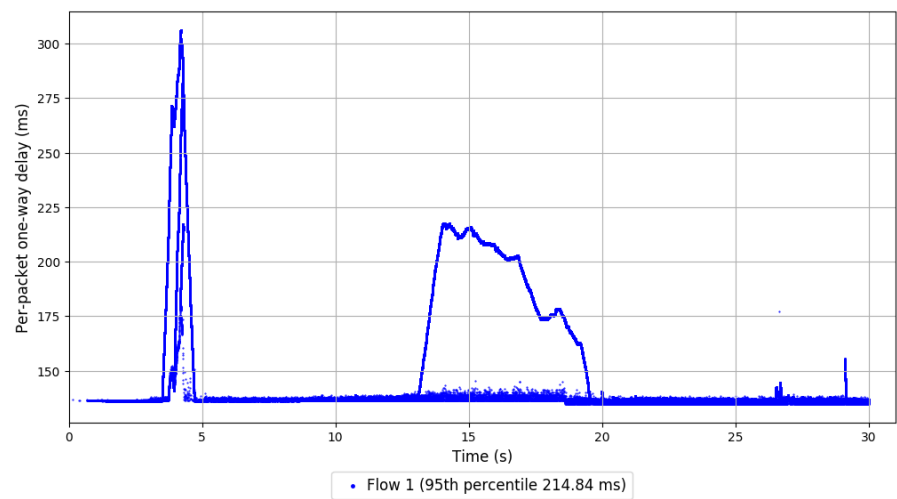
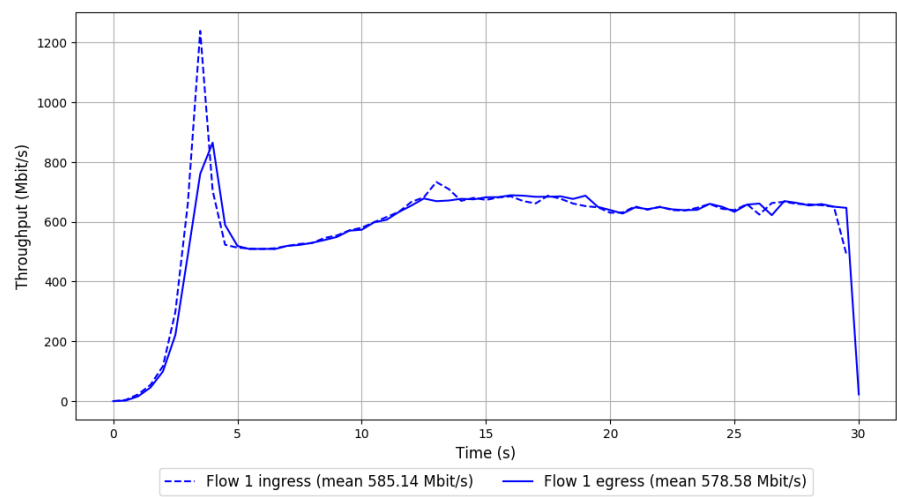
-- Flow 1:

Average throughput: 578.58 Mbit/s

95th percentile per-packet one-way delay: 214.840 ms

Loss rate: 1.12%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-11 20:13:12

End at: 2017-12-11 20:13:43

Below is generated by plot.py at 2017-12-11 21:59:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 581.29 Mbit/s

95th percentile per-packet one-way delay: 198.878 ms

Loss rate: 1.23%

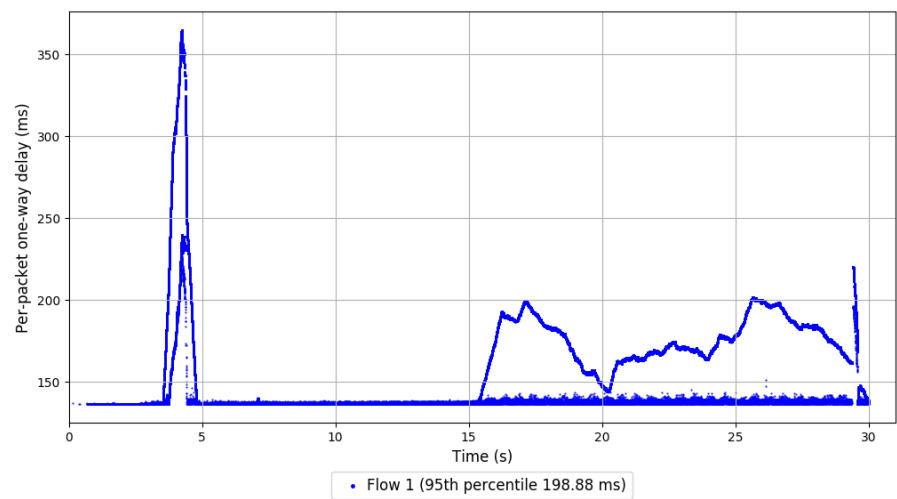
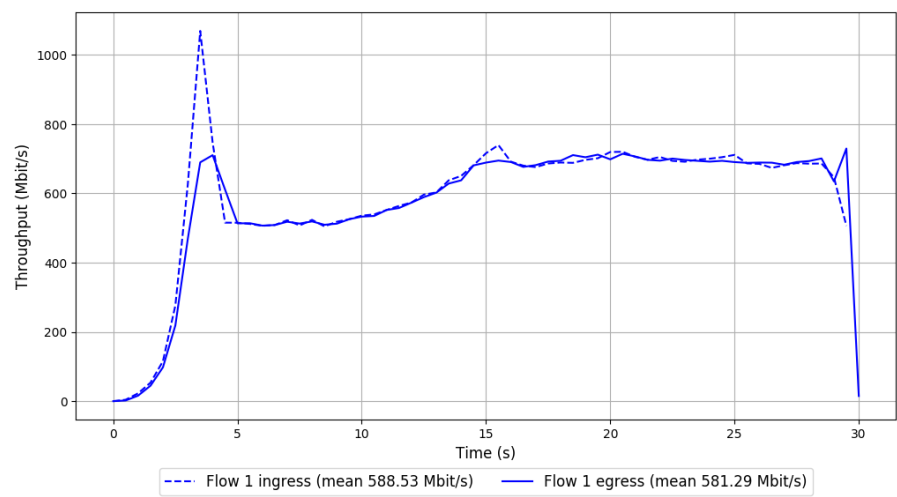
-- Flow 1:

Average throughput: 581.29 Mbit/s

95th percentile per-packet one-way delay: 198.878 ms

Loss rate: 1.23%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-11 20:24:28

End at: 2017-12-11 20:24:58

Below is generated by plot.py at 2017-12-11 21:59:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.25 Mbit/s

95th percentile per-packet one-way delay: 151.504 ms

Loss rate: 1.73%

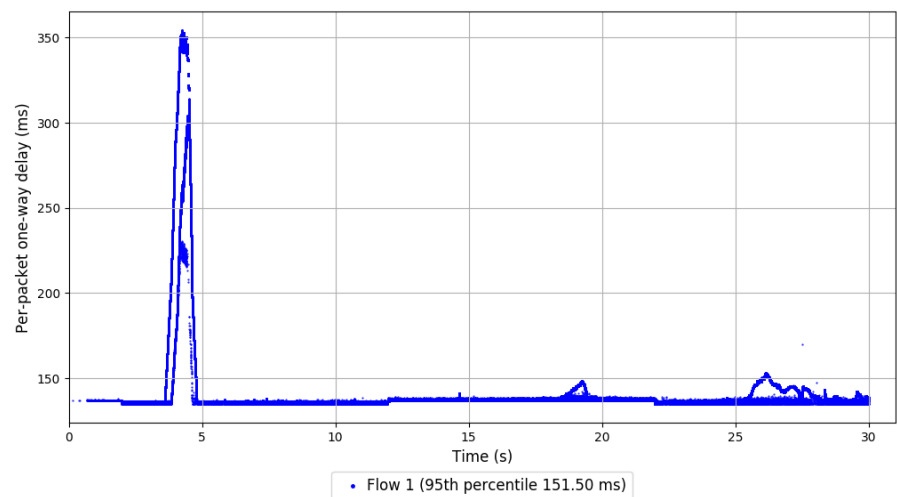
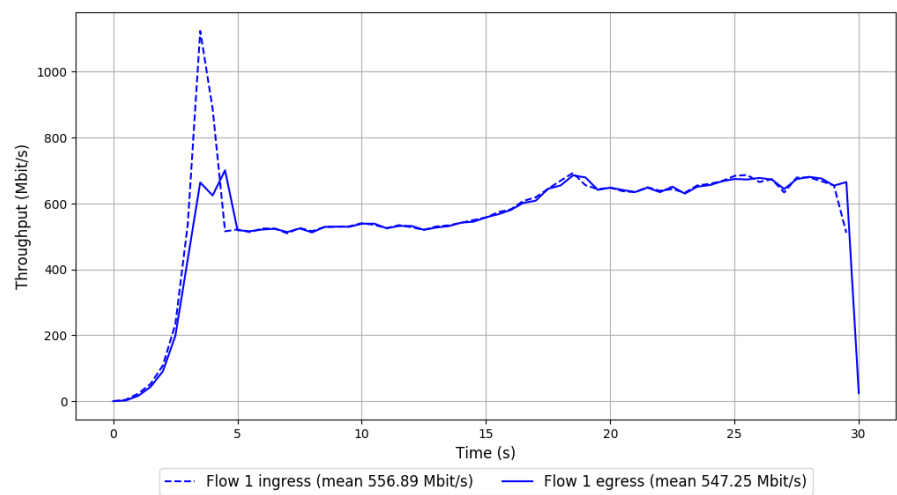
-- Flow 1:

Average throughput: 547.25 Mbit/s

95th percentile per-packet one-way delay: 151.504 ms

Loss rate: 1.73%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-11 20:35:42

End at: 2017-12-11 20:36:12

Below is generated by plot.py at 2017-12-11 21:59:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.31 Mbit/s

95th percentile per-packet one-way delay: 191.464 ms

Loss rate: 1.86%

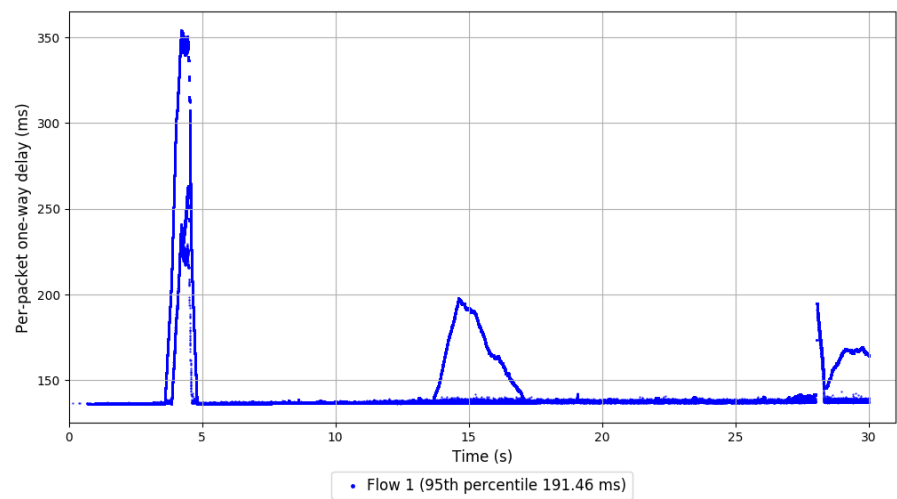
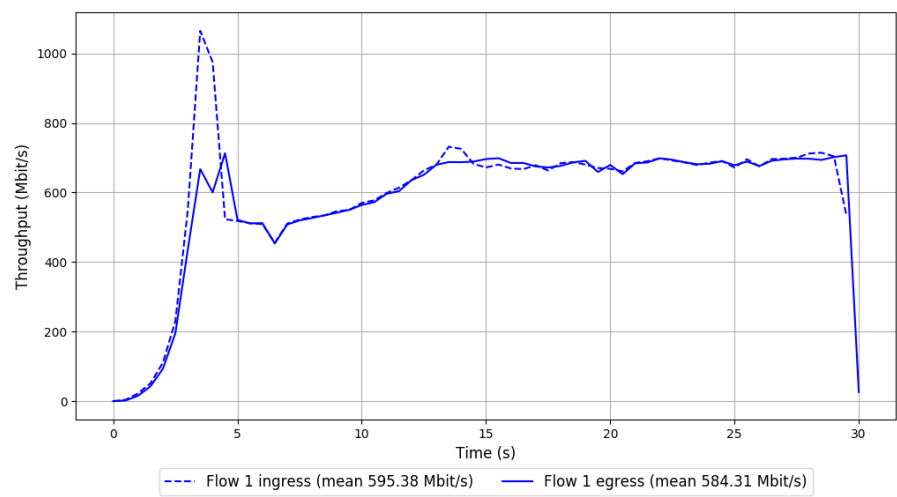
-- Flow 1:

Average throughput: 584.31 Mbit/s

95th percentile per-packet one-way delay: 191.464 ms

Loss rate: 1.86%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-11 20:46:51

End at: 2017-12-11 20:47:21

Below is generated by plot.py at 2017-12-11 22:07:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 506.94 Mbit/s

95th percentile per-packet one-way delay: 232.021 ms

Loss rate: 1.91%

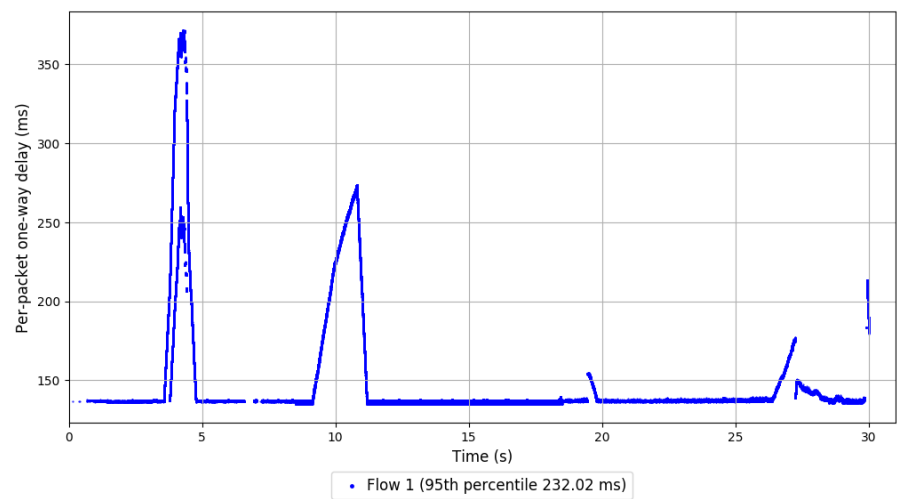
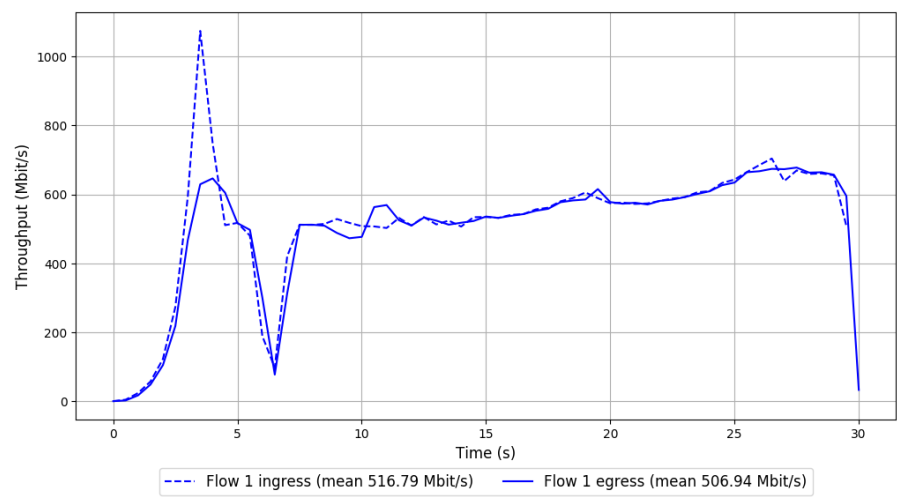
-- Flow 1:

Average throughput: 506.94 Mbit/s

95th percentile per-packet one-way delay: 232.021 ms

Loss rate: 1.91%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 20:58:16

End at: 2017-12-11 20:58:46

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.75 Mbit/s

95th percentile per-packet one-way delay: 252.218 ms

Loss rate: 1.87%

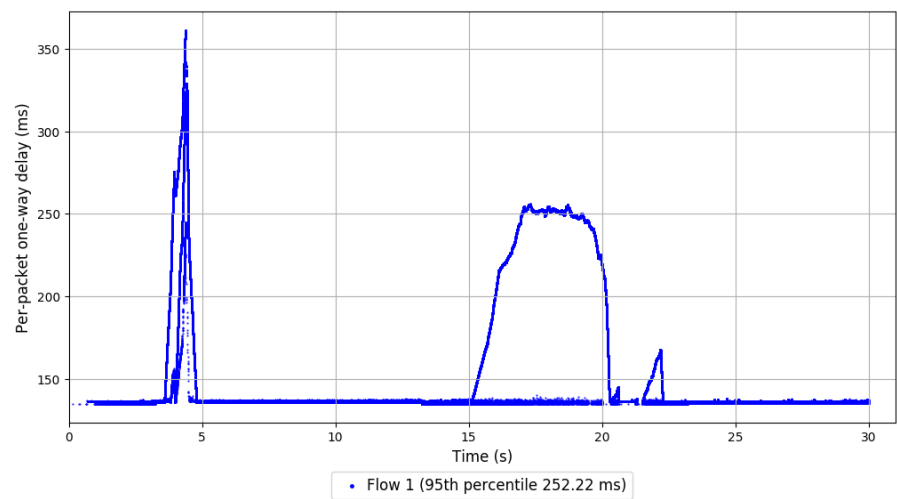
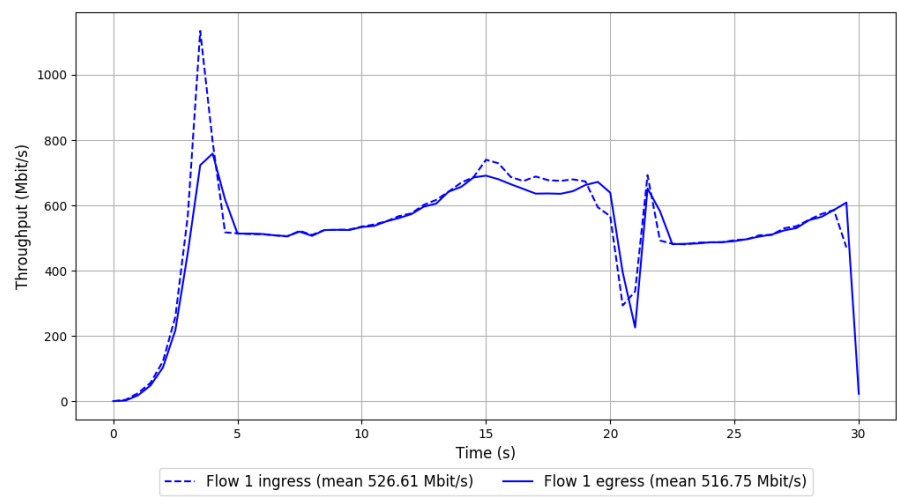
-- Flow 1:

Average throughput: 516.75 Mbit/s

95th percentile per-packet one-way delay: 252.218 ms

Loss rate: 1.87%

Run 10: Report of PCC — Data Link

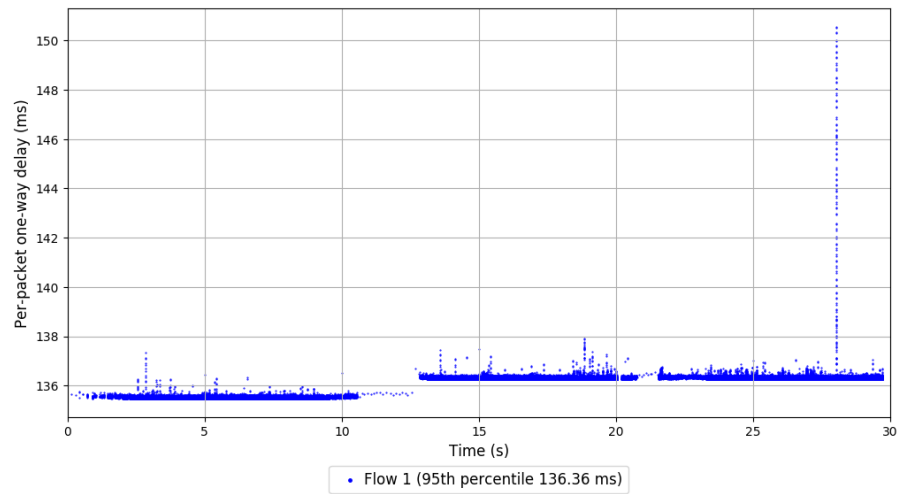
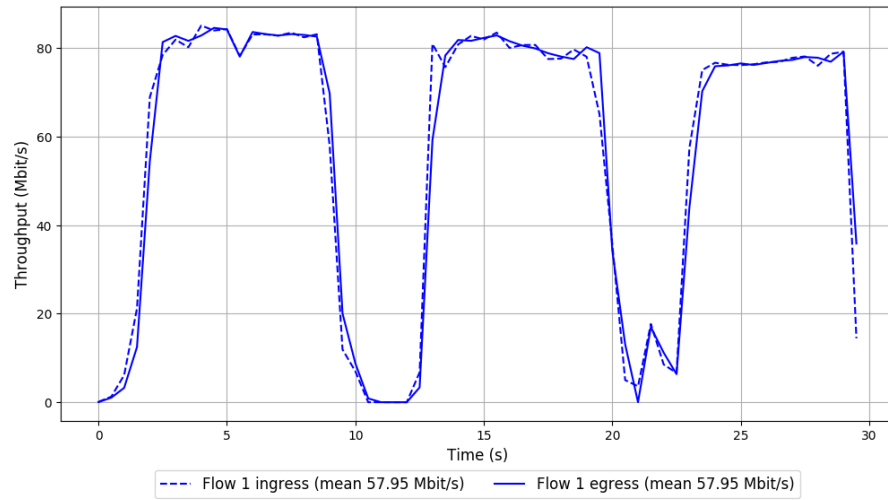


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 19:19:17
End at: 2017-12-11 19:19:47

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 136.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 57.95 Mbit/s
95th percentile per-packet one-way delay: 136.361 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 19:30:49

End at: 2017-12-11 19:31:19

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.98 Mbit/s

95th percentile per-packet one-way delay: 136.354 ms

Loss rate: 0.00%

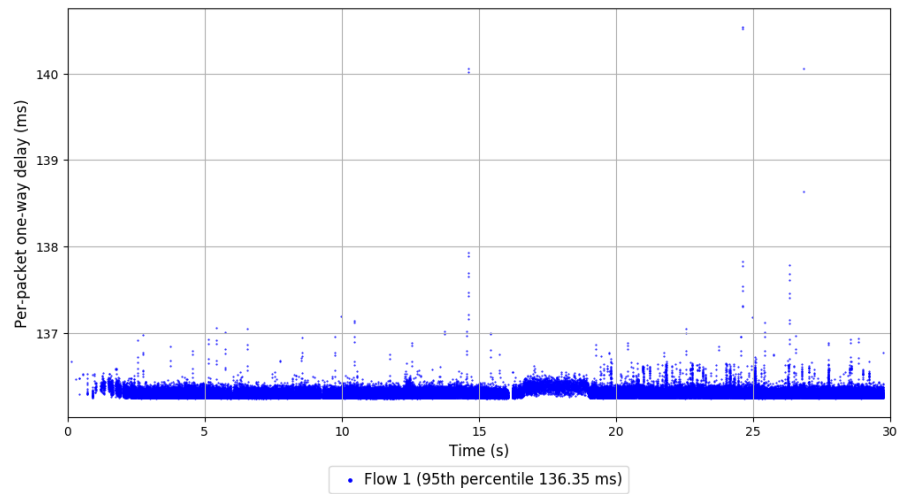
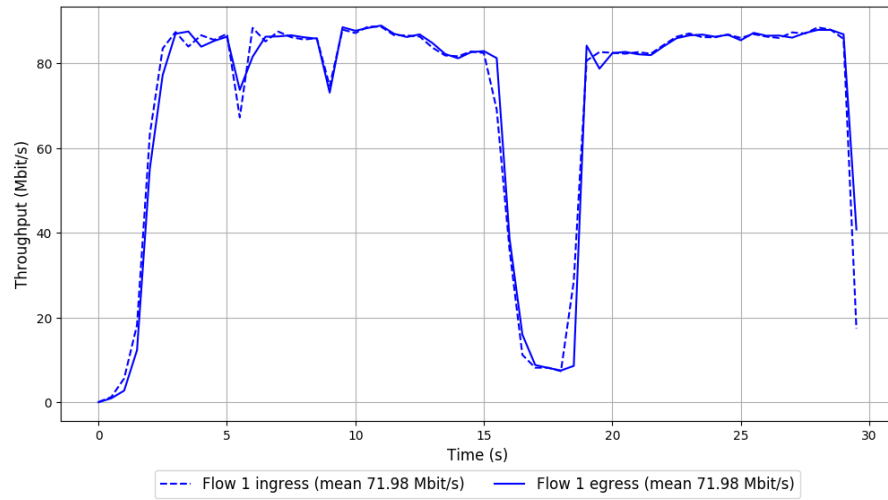
-- Flow 1:

Average throughput: 71.98 Mbit/s

95th percentile per-packet one-way delay: 136.354 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-11 19:42:20

End at: 2017-12-11 19:42:50

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.24 Mbit/s

95th percentile per-packet one-way delay: 136.307 ms

Loss rate: 0.00%

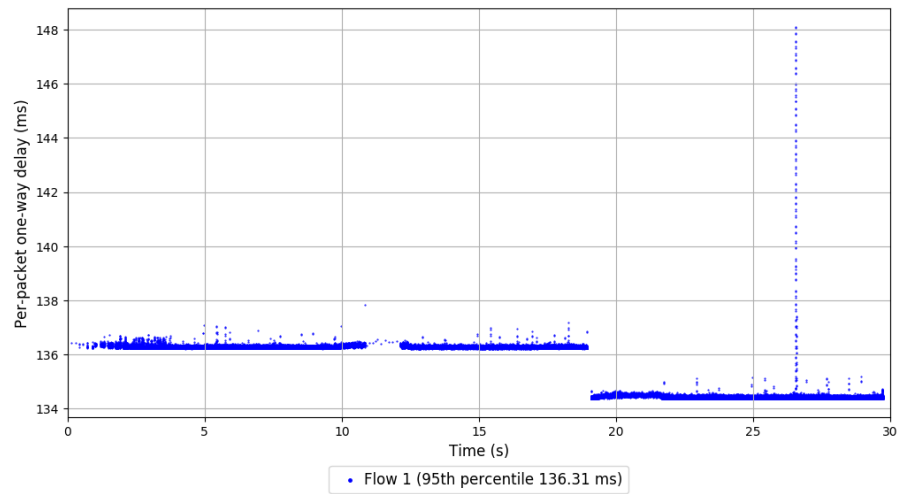
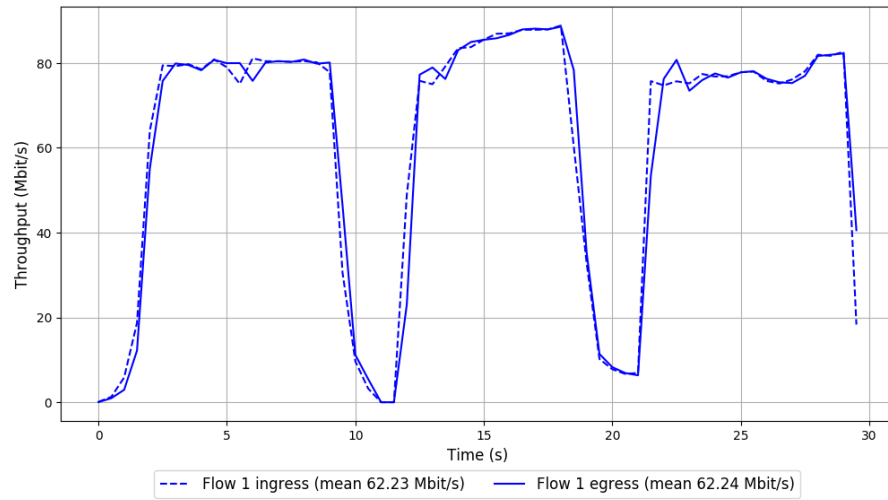
-- Flow 1:

Average throughput: 62.24 Mbit/s

95th percentile per-packet one-way delay: 136.307 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 19:53:57

End at: 2017-12-11 19:54:27

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 135.217 ms

Loss rate: 0.00%

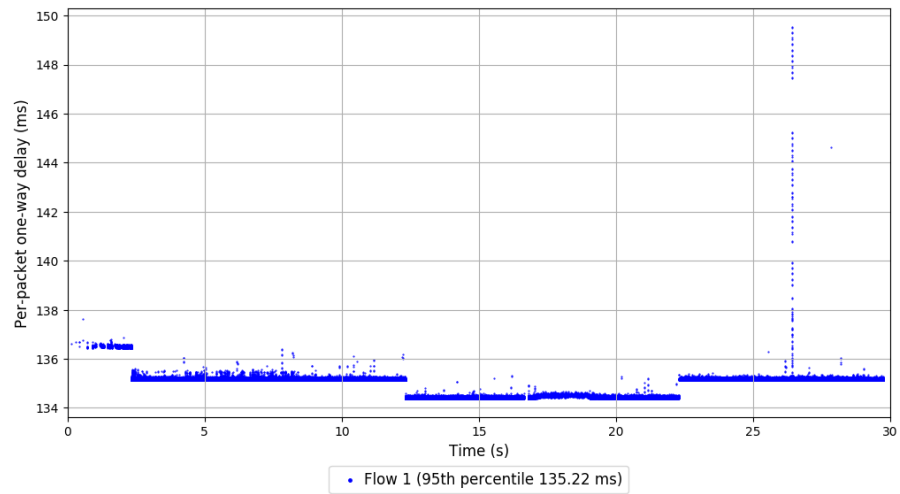
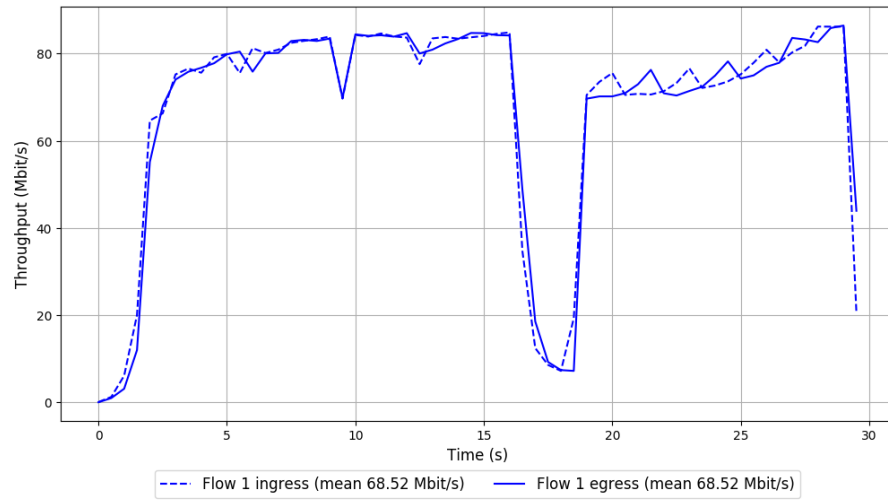
-- Flow 1:

Average throughput: 68.52 Mbit/s

95th percentile per-packet one-way delay: 135.217 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 20:05:38

End at: 2017-12-11 20:06:08

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.30 Mbit/s

95th percentile per-packet one-way delay: 136.982 ms

Loss rate: 0.00%

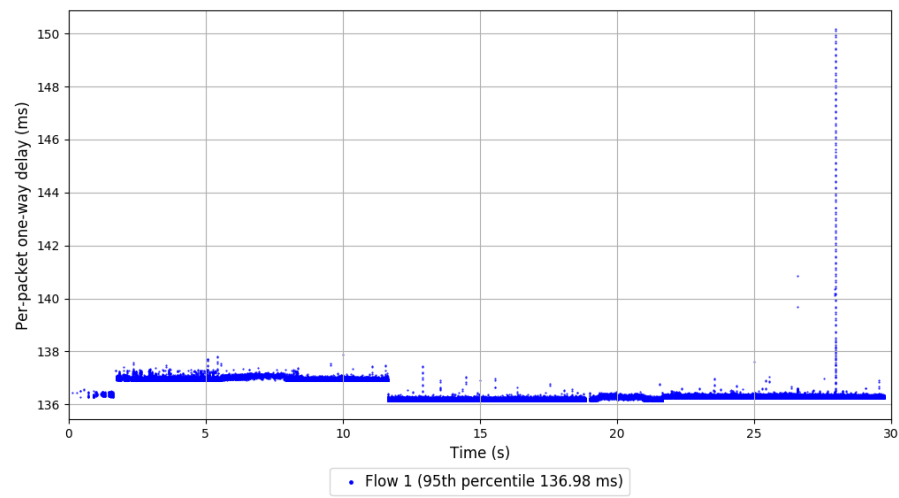
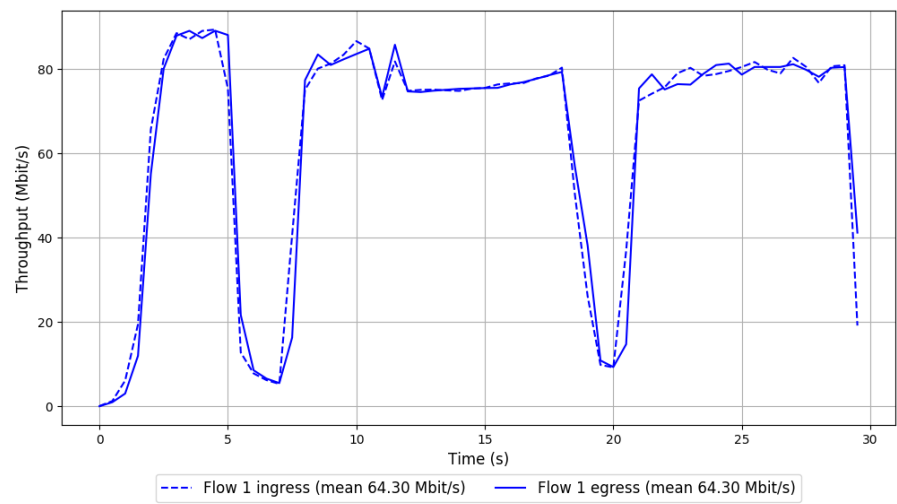
-- Flow 1:

Average throughput: 64.30 Mbit/s

95th percentile per-packet one-way delay: 136.982 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 20:17:18

End at: 2017-12-11 20:17:48

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.50 Mbit/s

95th percentile per-packet one-way delay: 136.259 ms

Loss rate: 0.00%

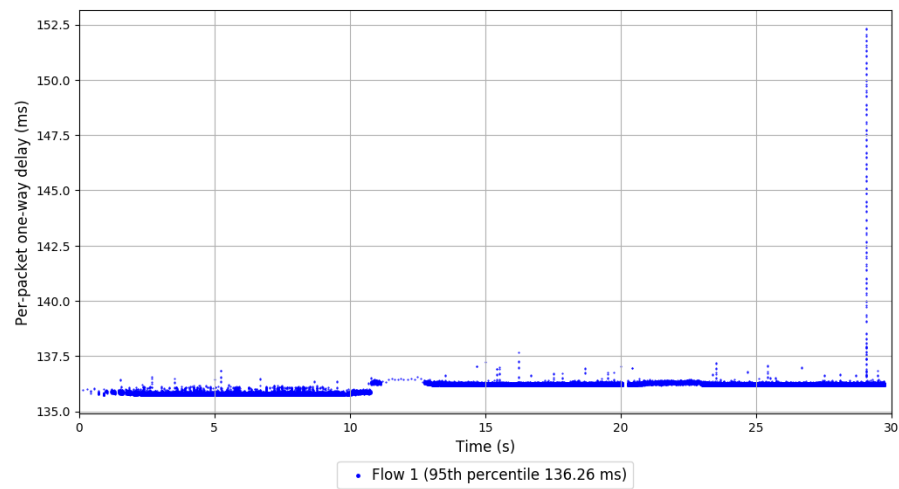
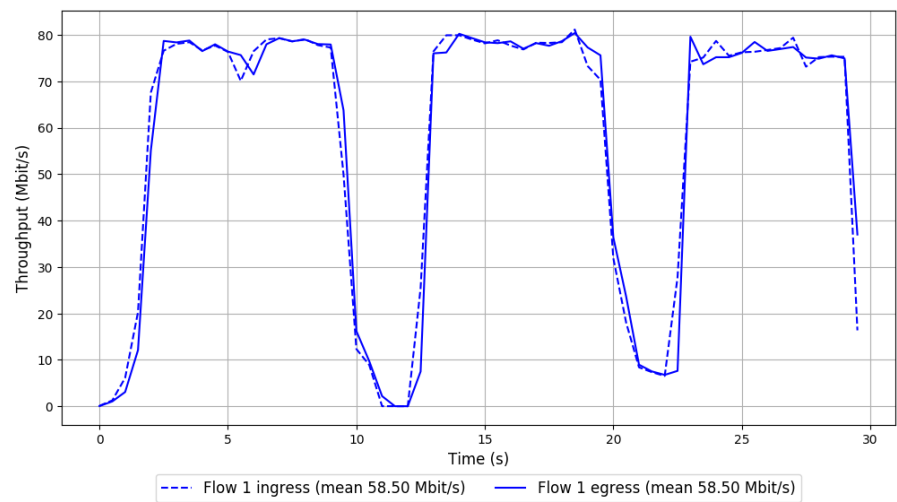
-- Flow 1:

Average throughput: 58.50 Mbit/s

95th percentile per-packet one-way delay: 136.259 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 20:28:32

End at: 2017-12-11 20:29:02

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 135.205 ms

Loss rate: 0.00%

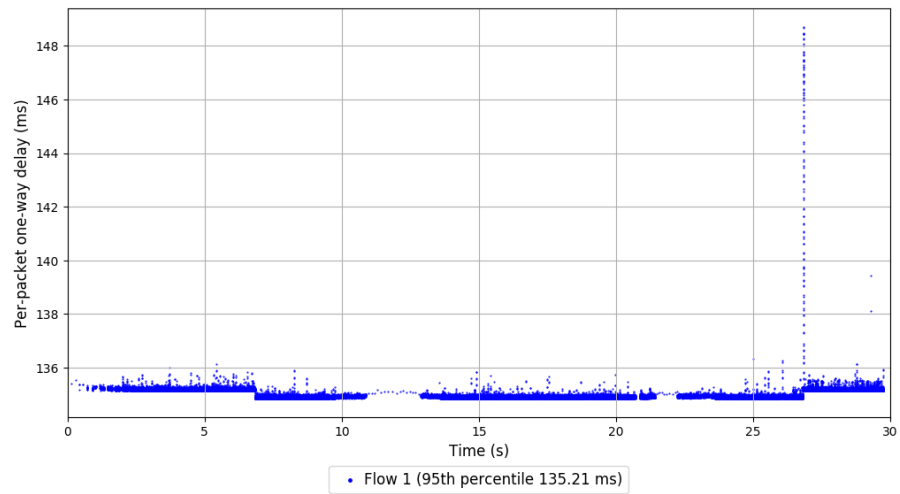
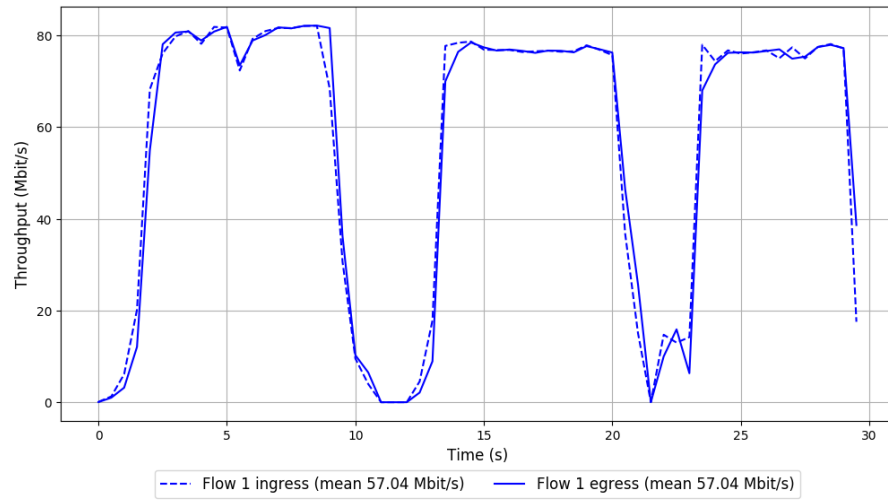
-- Flow 1:

Average throughput: 57.04 Mbit/s

95th percentile per-packet one-way delay: 135.205 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-11 20:39:48

End at: 2017-12-11 20:40:18

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 135.689 ms

Loss rate: 0.00%

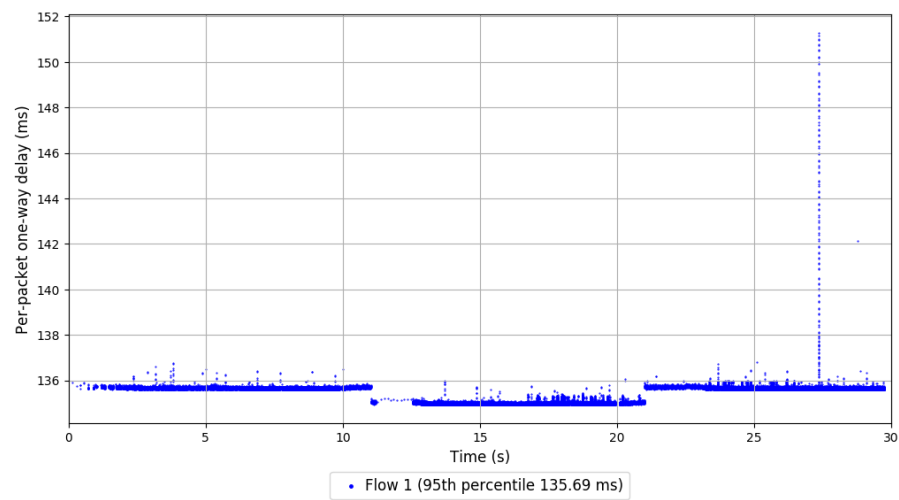
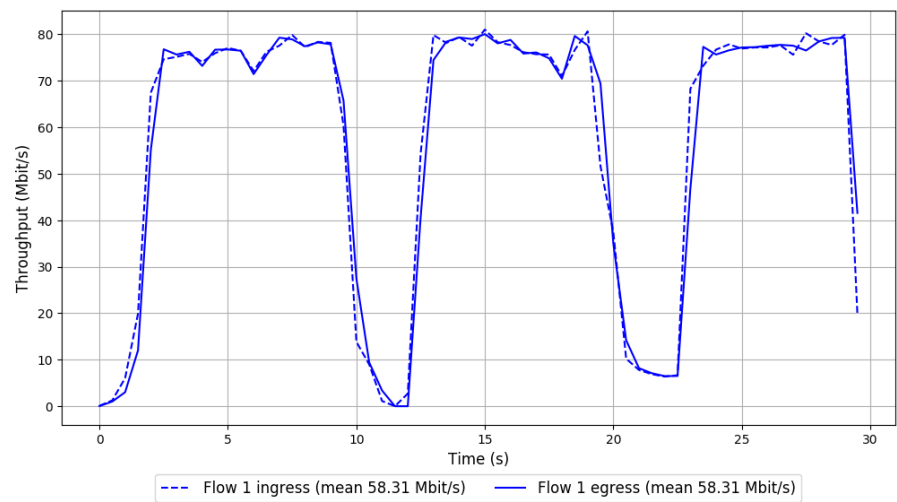
-- Flow 1:

Average throughput: 58.31 Mbit/s

95th percentile per-packet one-way delay: 135.689 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 20:50:55

End at: 2017-12-11 20:51:25

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 135.553 ms

Loss rate: 0.00%

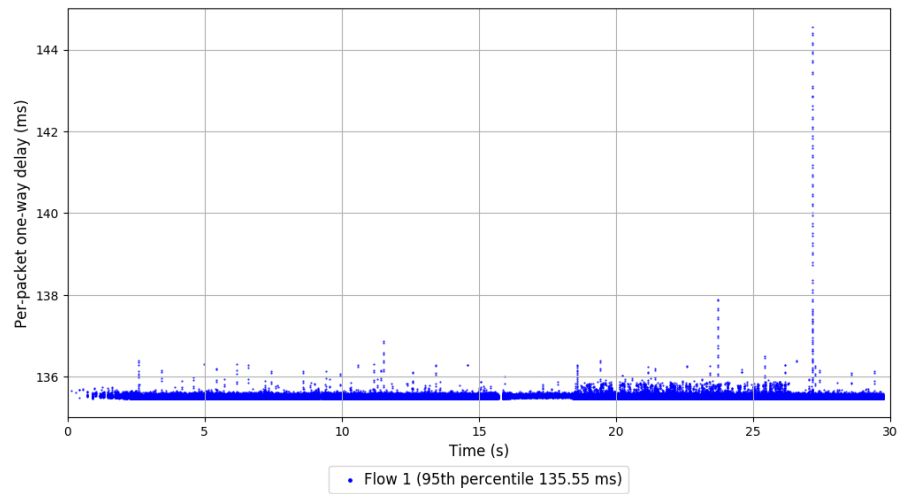
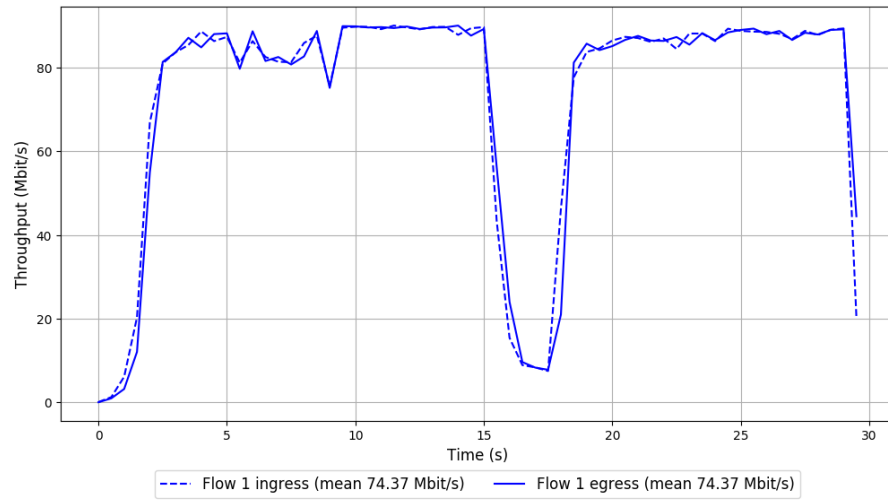
-- Flow 1:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 135.553 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

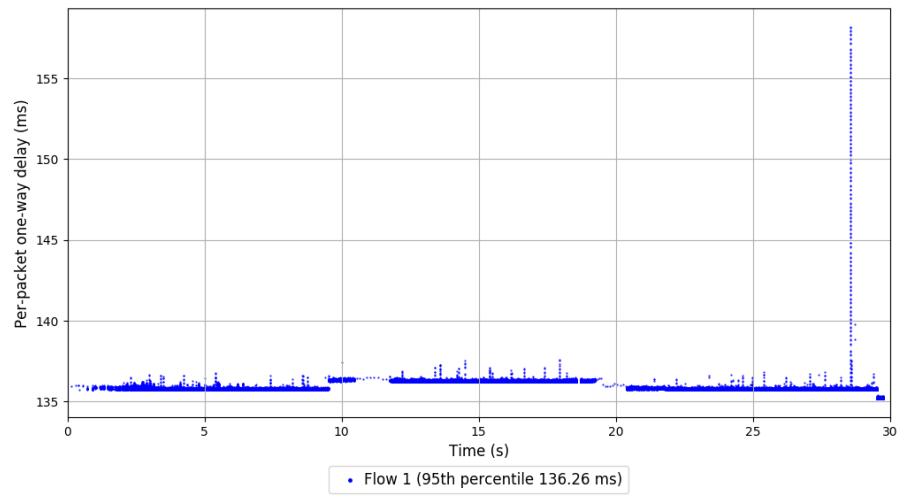
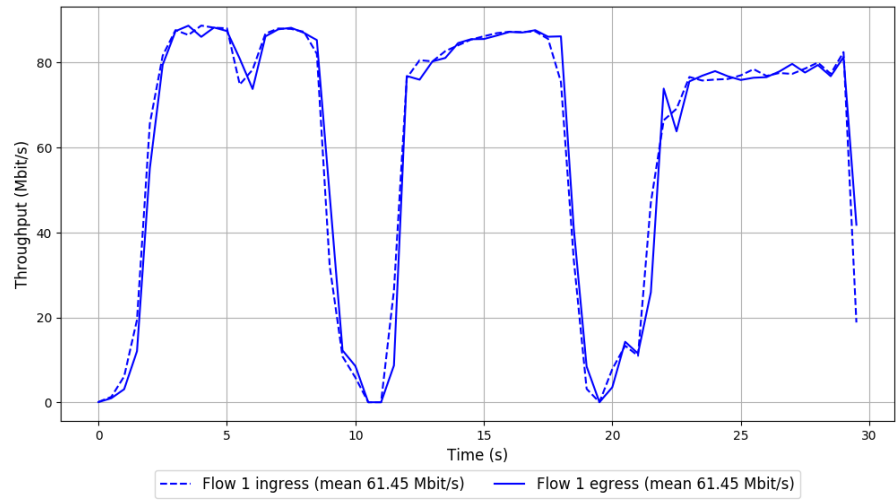


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-12-11 21:02:20
End at: 2017-12-11 21:02:50

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.45 Mbit/s
95th percentile per-packet one-way delay: 136.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.45 Mbit/s
95th percentile per-packet one-way delay: 136.265 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

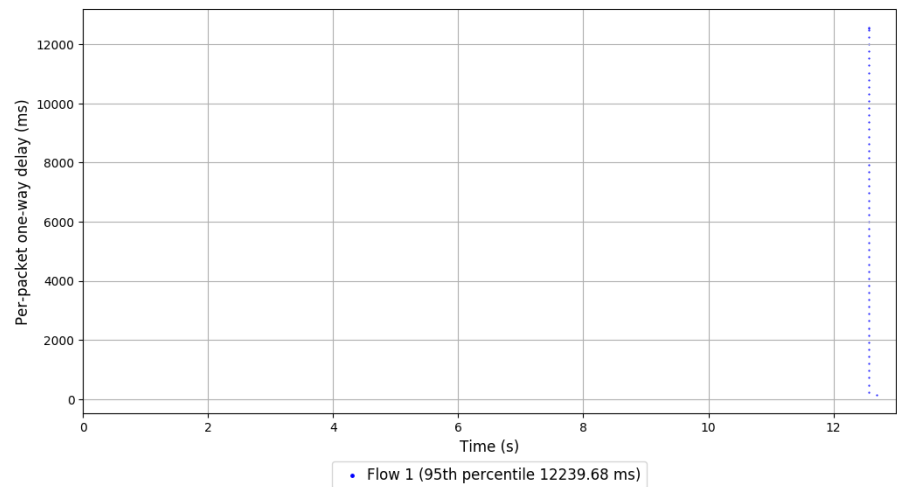
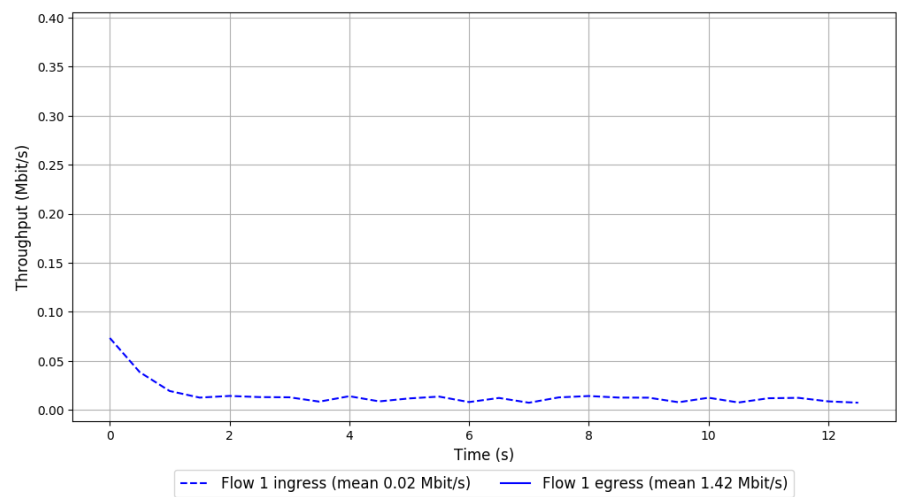


Run 1: Statistics of SCReAM

Start at: 2017-12-11 19:16:18

End at: 2017-12-11 19:16:48

Run 1: Report of SReAM — Data Link

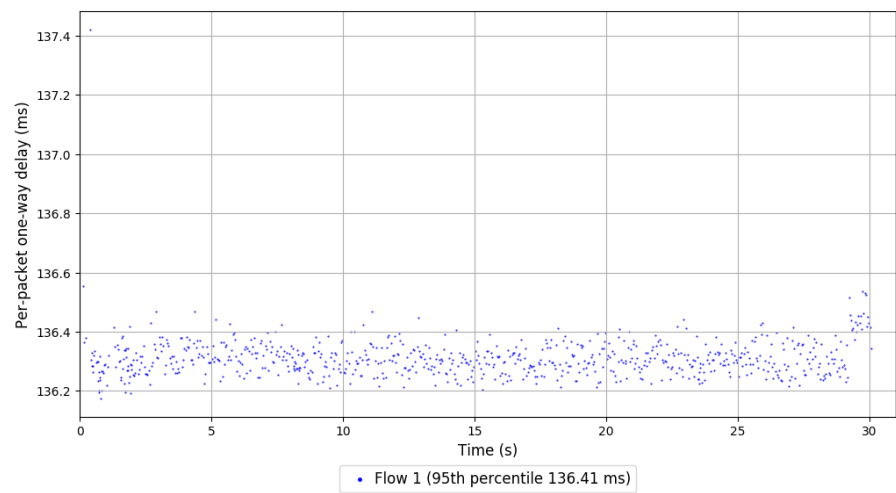
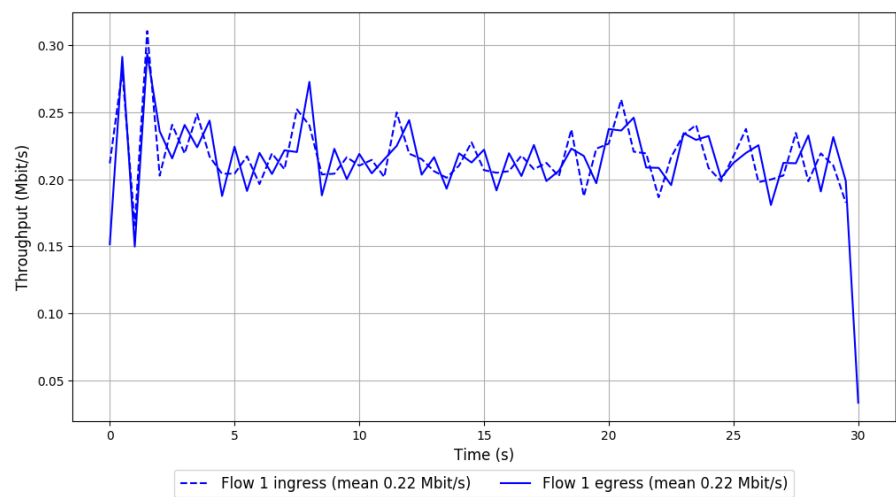


```
Run 2: Statistics of SCReAM

Start at: 2017-12-11 19:27:50
End at: 2017-12-11 19:28:20

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.406 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.406 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-11 19:39:21

End at: 2017-12-11 19:39:51

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.004 ms

Loss rate: 0.00%

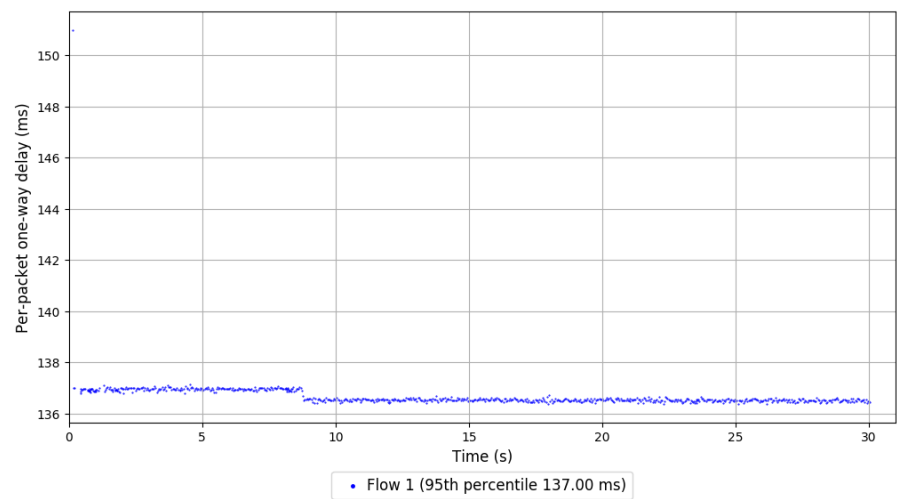
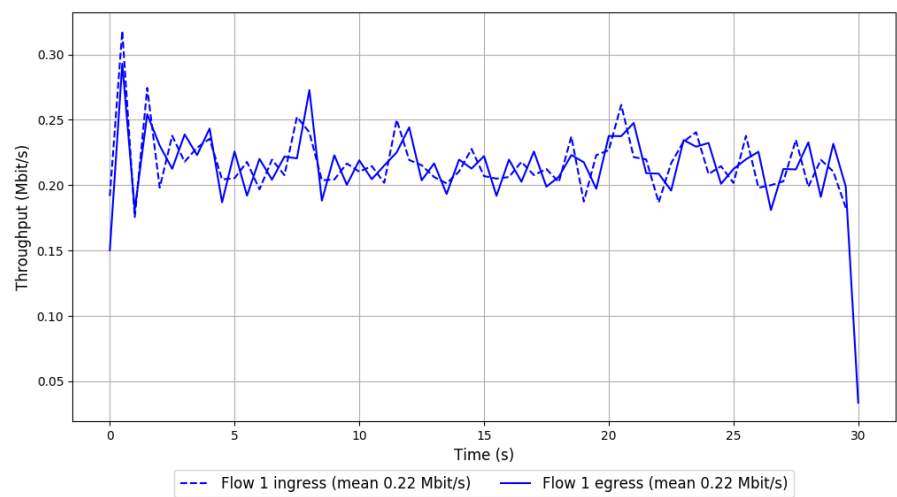
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.004 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-11 19:50:58

End at: 2017-12-11 19:51:28

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.567 ms

Loss rate: 0.00%

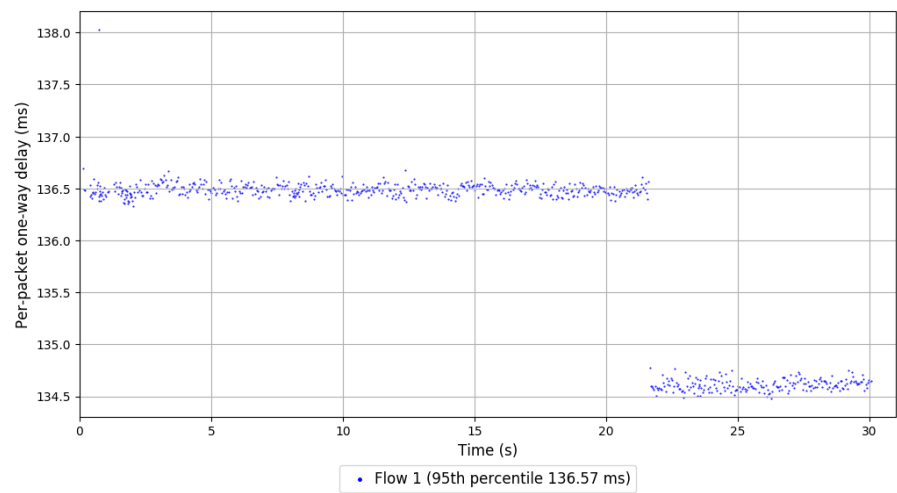
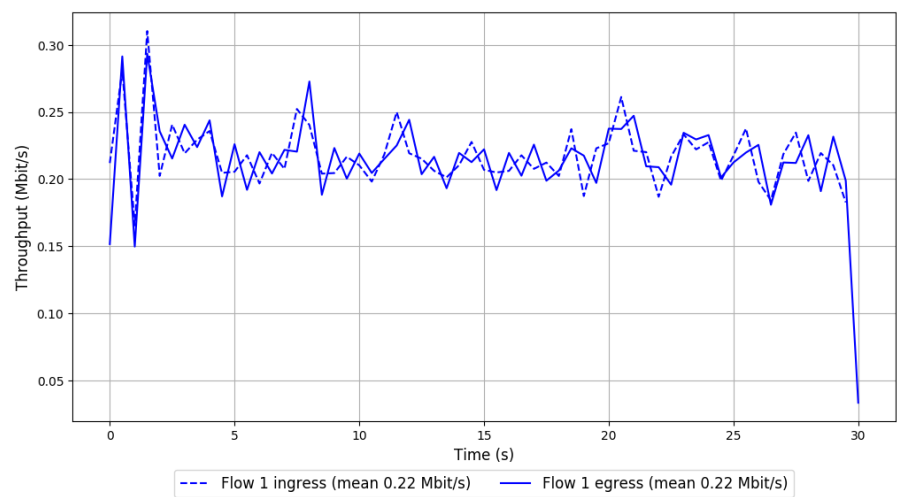
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.567 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-11 20:02:38

End at: 2017-12-11 20:03:08

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 0.00%

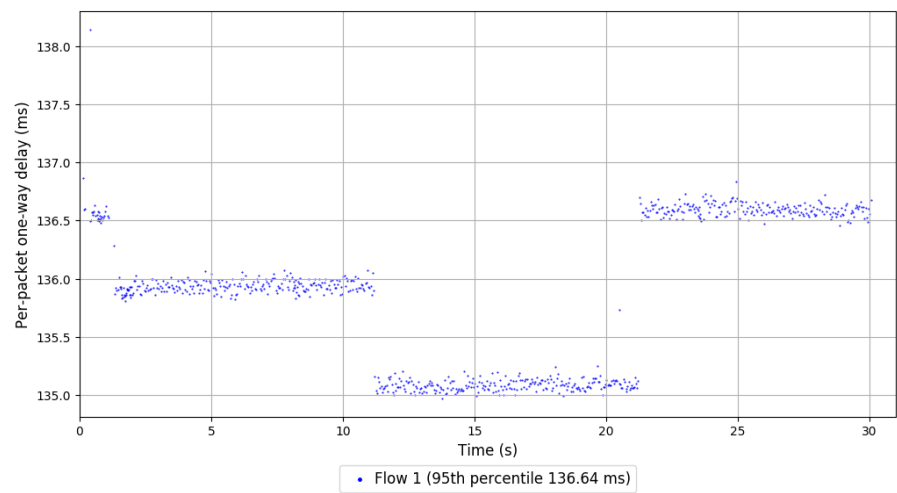
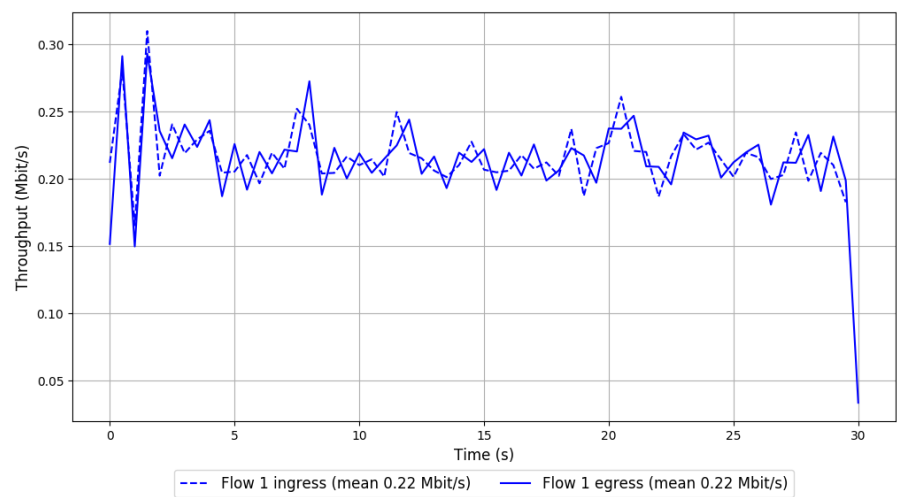
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-11 20:14:20

End at: 2017-12-11 20:14:50

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.997 ms

Loss rate: 0.00%

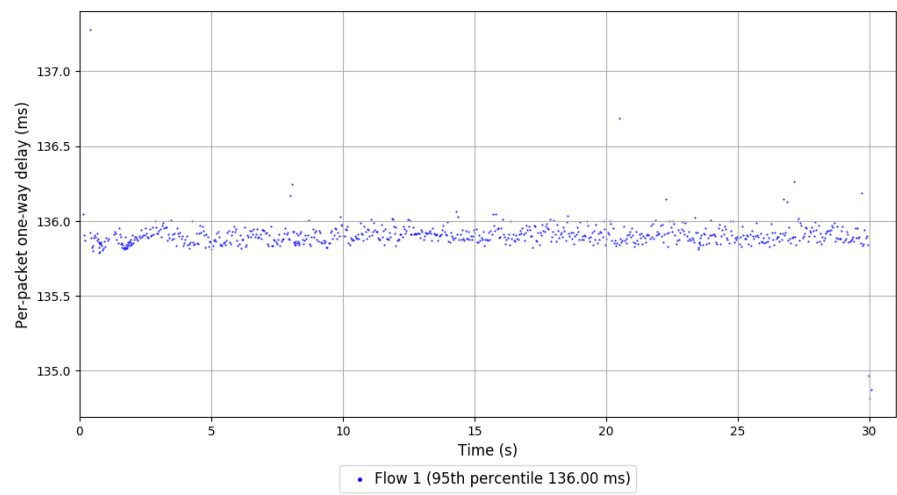
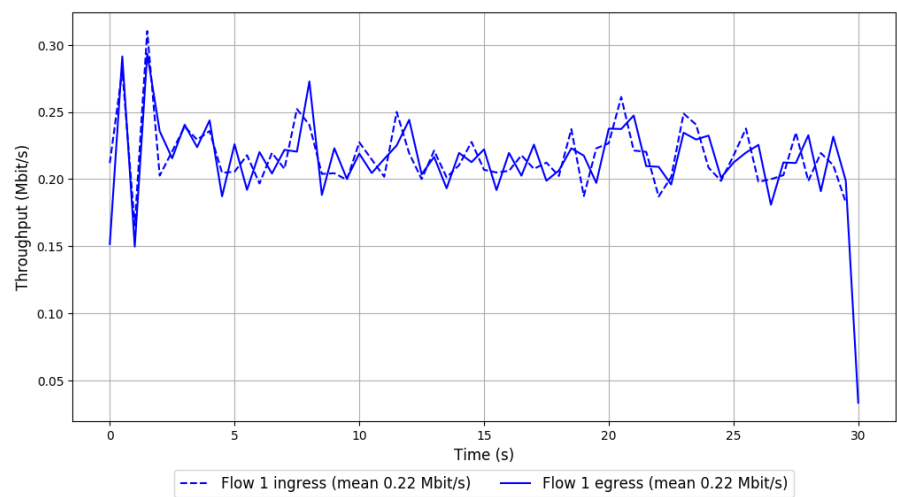
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.997 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

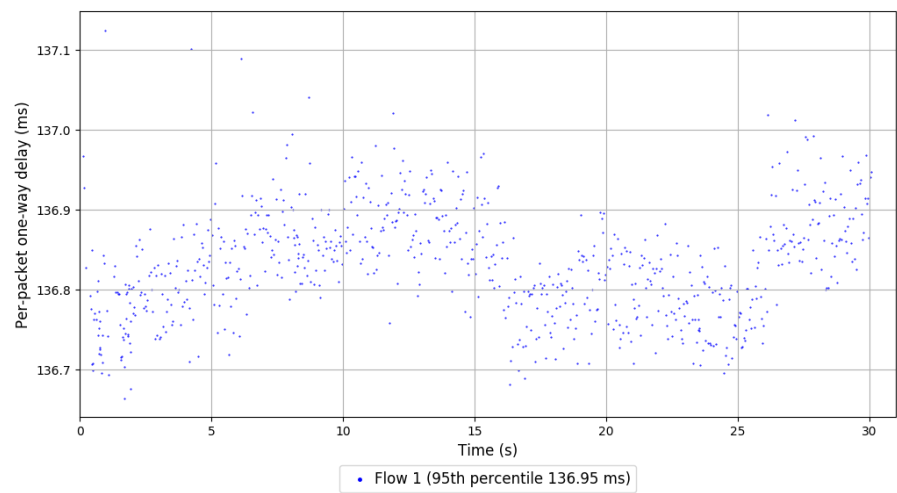
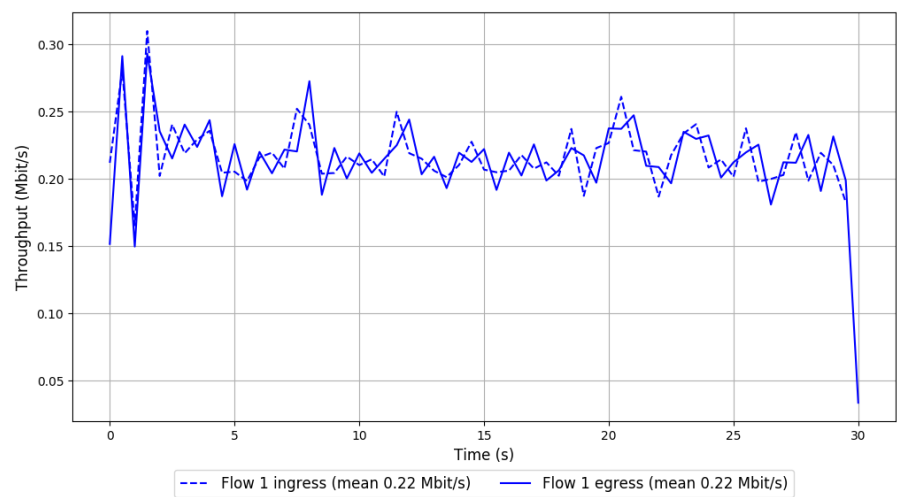


```
Run 7: Statistics of SCReAM

Start at: 2017-12-11 20:25:33
End at: 2017-12-11 20:26:03

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.947 ms
Loss rate: 0.00%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-11 20:36:49

End at: 2017-12-11 20:37:19

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.603 ms

Loss rate: 0.13%

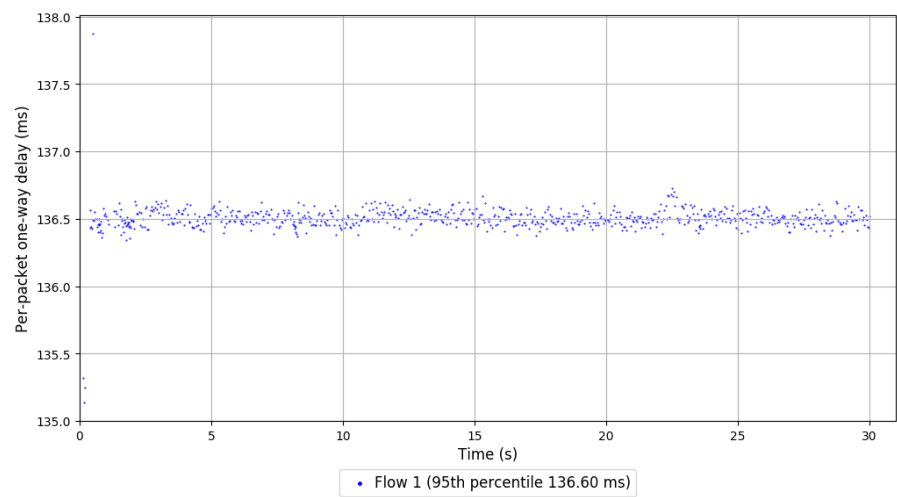
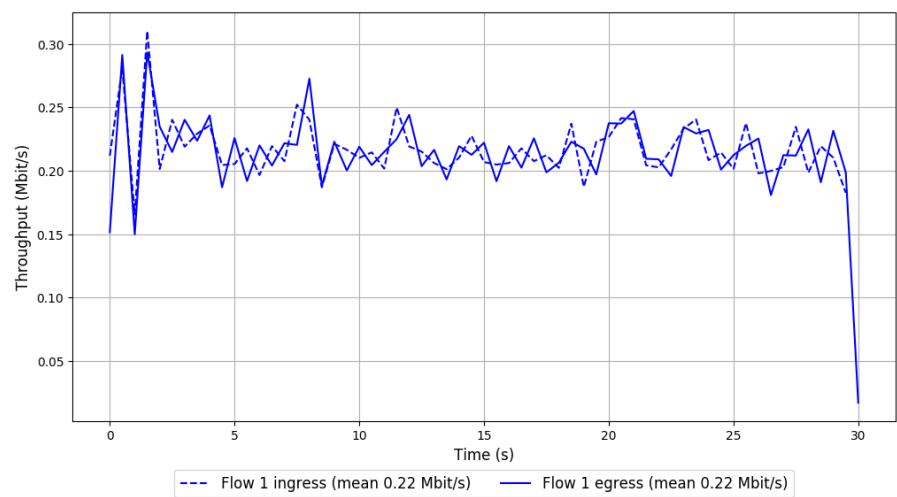
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.603 ms

Loss rate: 0.13%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-11 20:47:56

End at: 2017-12-11 20:48:26

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.654 ms

Loss rate: 0.00%

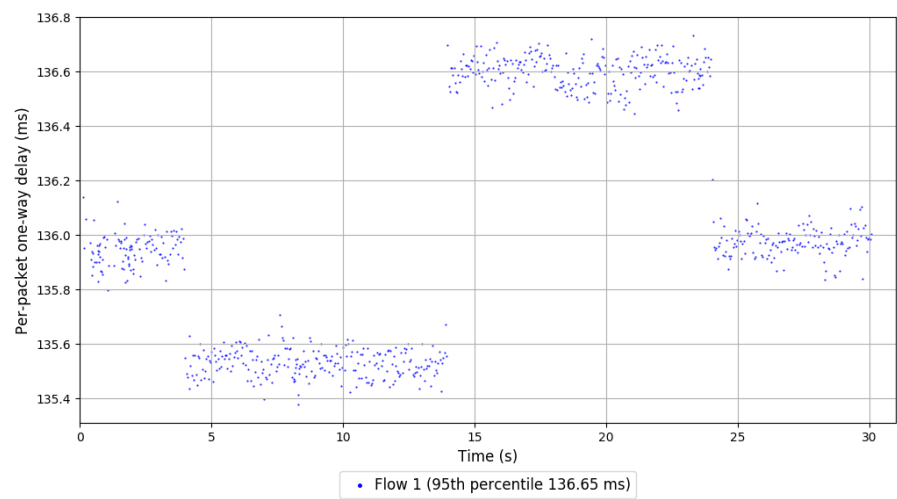
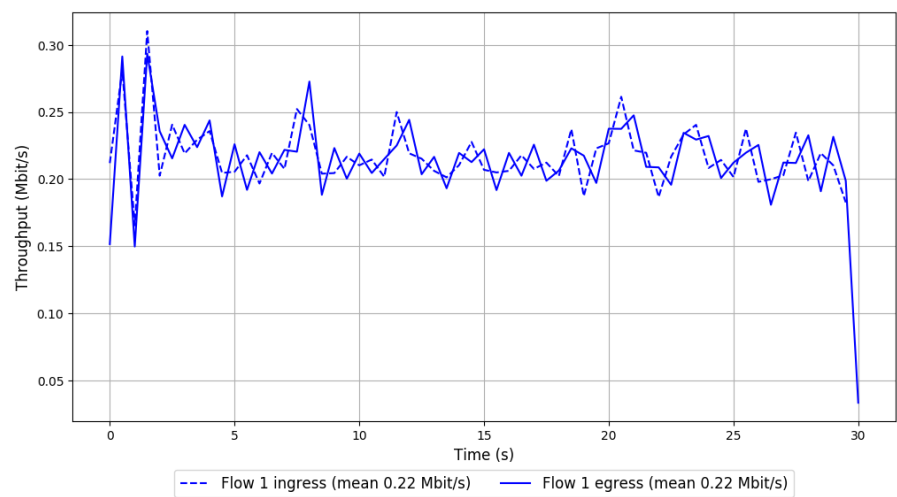
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.654 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

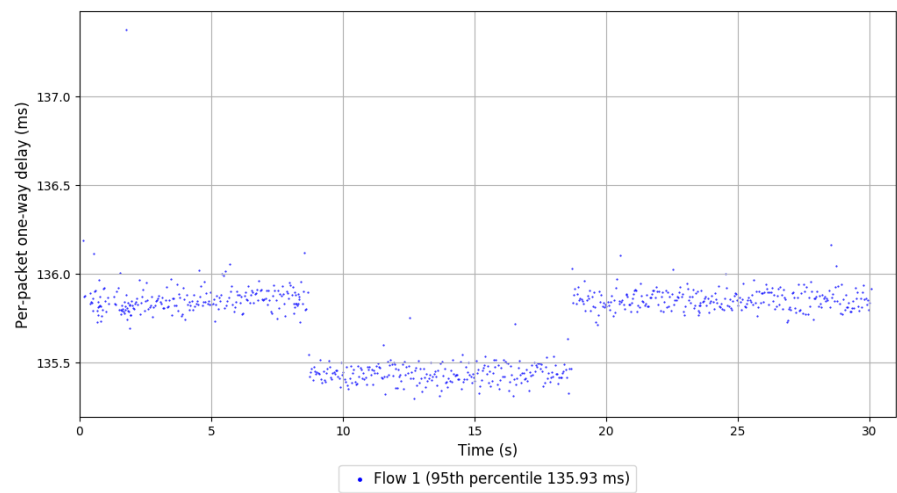
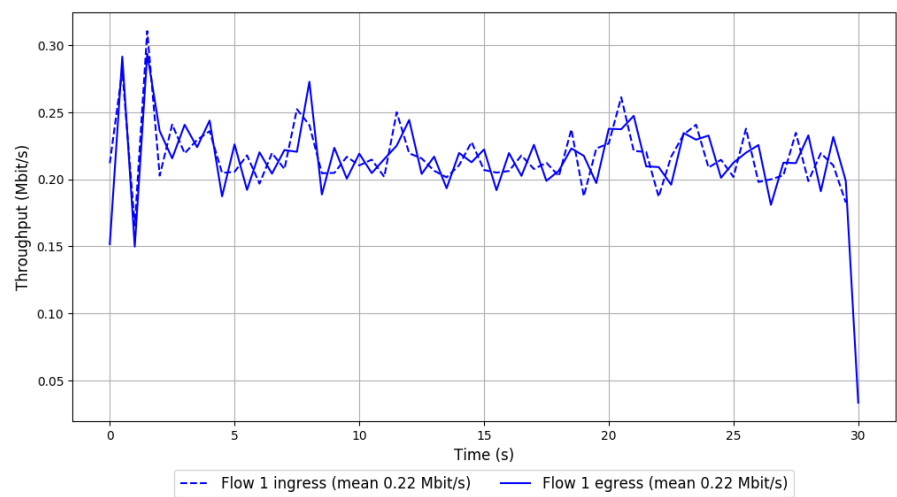


```
Run 10: Statistics of SReAM

Start at: 2017-12-11 20:59:21
End at: 2017-12-11 20:59:51

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.933 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.933 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

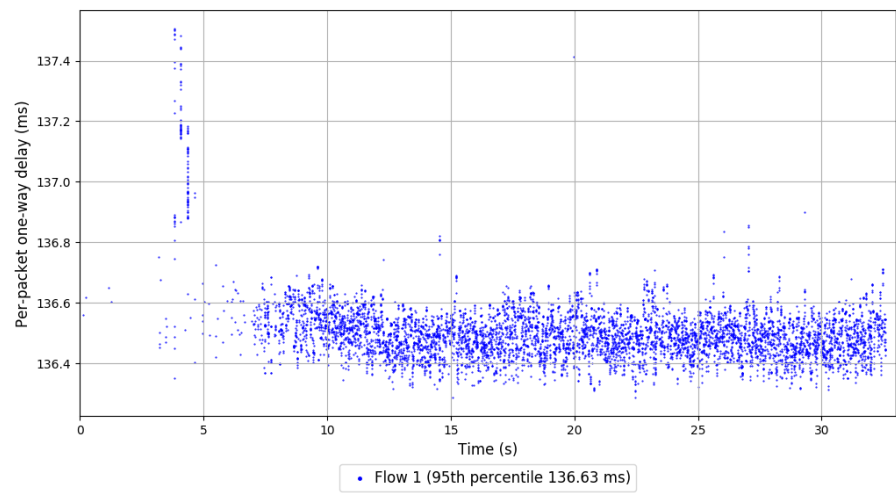
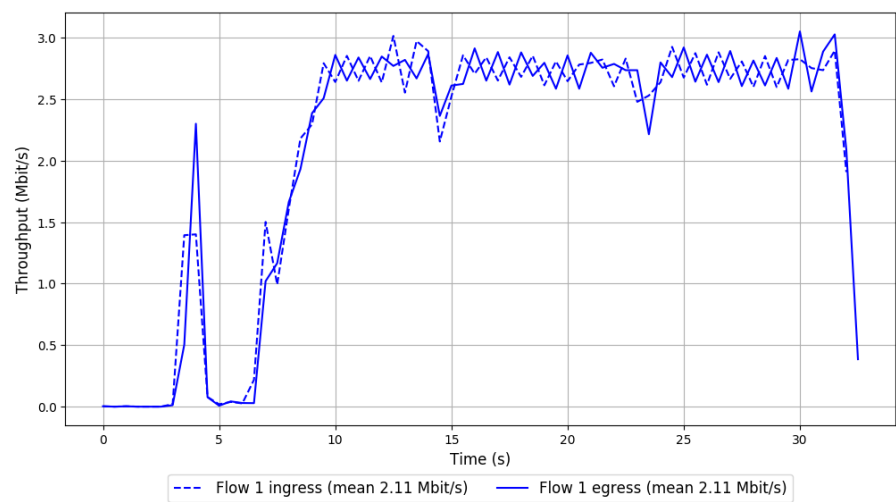


```
Run 1: Statistics of WebRTC media

Start at: 2017-12-11 19:24:20
End at: 2017-12-11 19:24:50

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 136.627 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 136.627 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

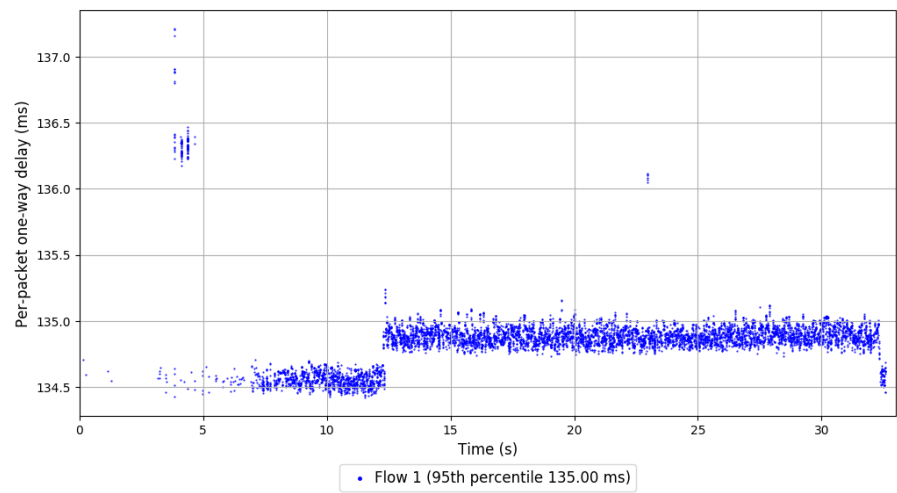
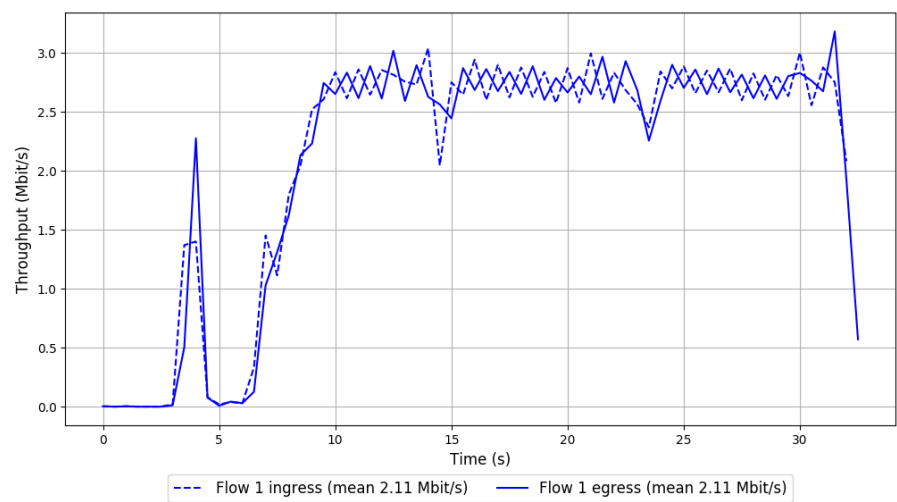


```
Run 2: Statistics of WebRTC media

Start at: 2017-12-11 19:35:50
End at: 2017-12-11 19:36:20

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 135.004 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 135.004 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-11 19:47:27

End at: 2017-12-11 19:47:57

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.553 ms

Loss rate: 0.00%

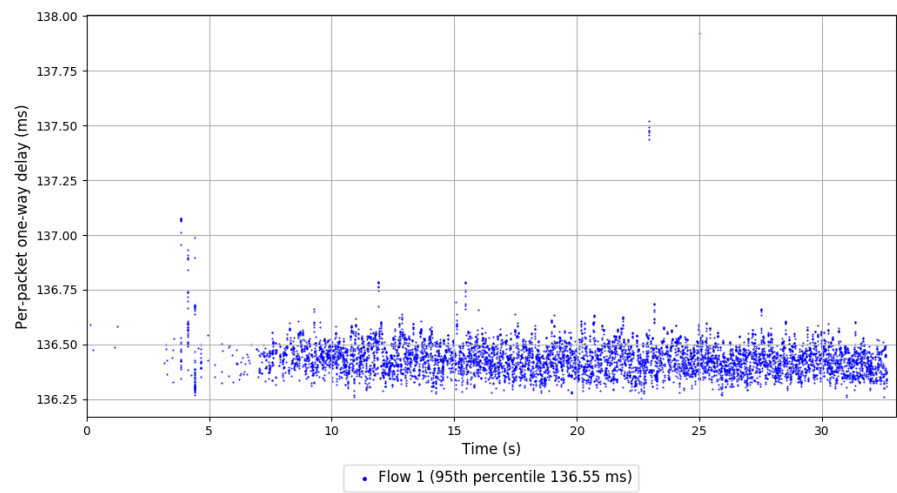
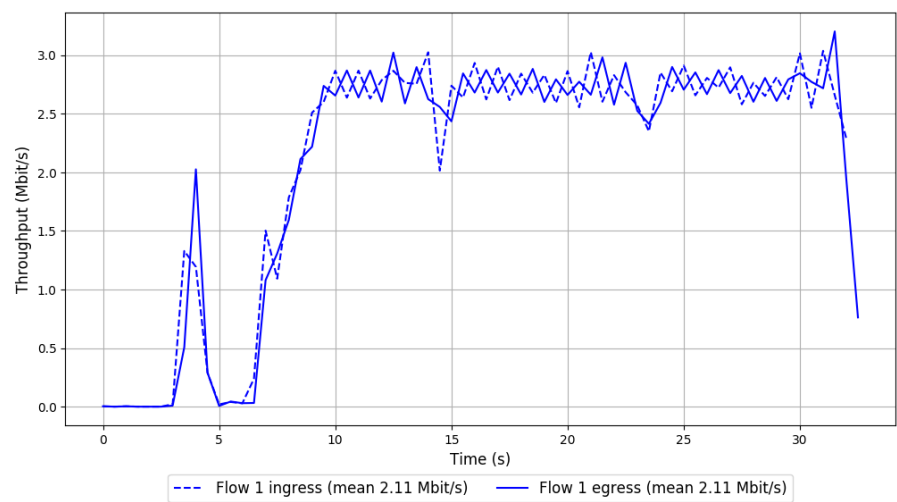
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.553 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-11 19:59:06

End at: 2017-12-11 19:59:36

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.634 ms

Loss rate: 0.00%

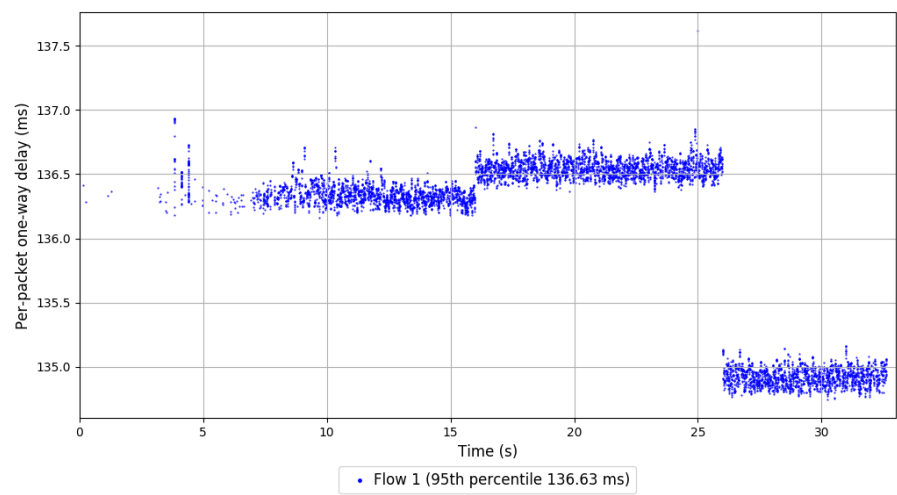
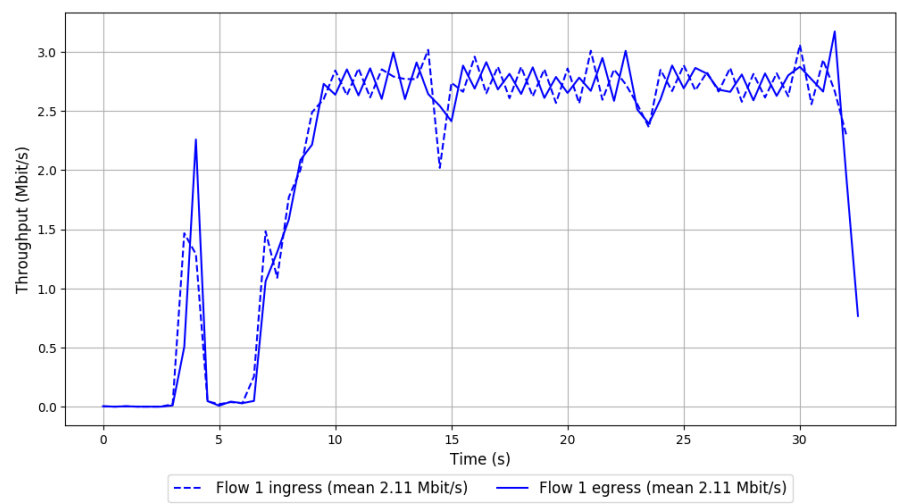
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.634 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-11 20:10:49

End at: 2017-12-11 20:11:19

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.539 ms

Loss rate: 0.00%

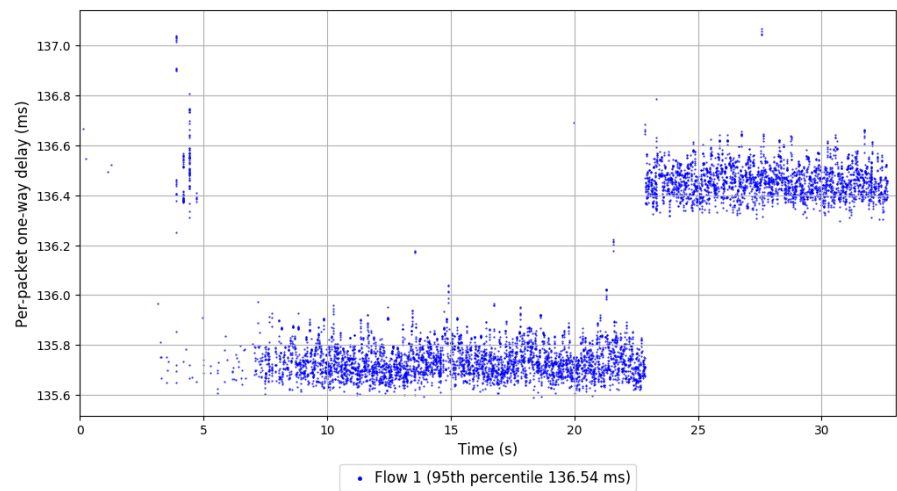
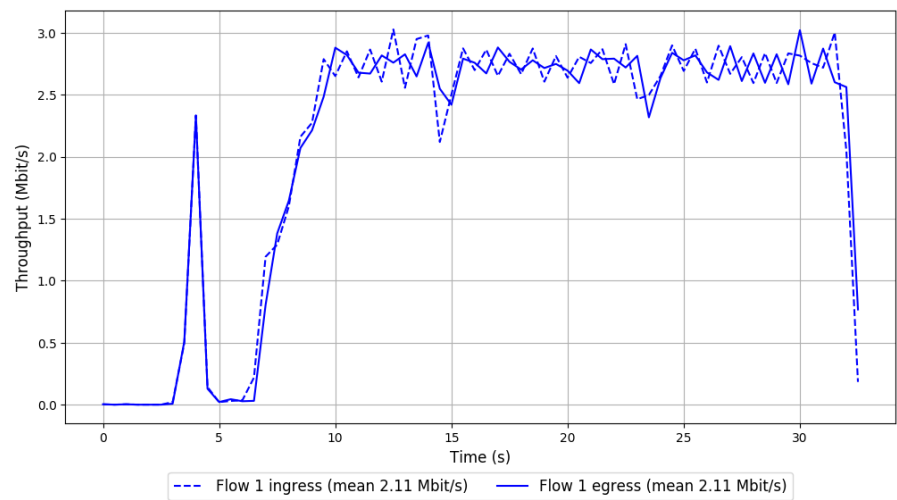
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.539 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-11 20:22:04

End at: 2017-12-11 20:22:34

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.567 ms

Loss rate: 0.00%

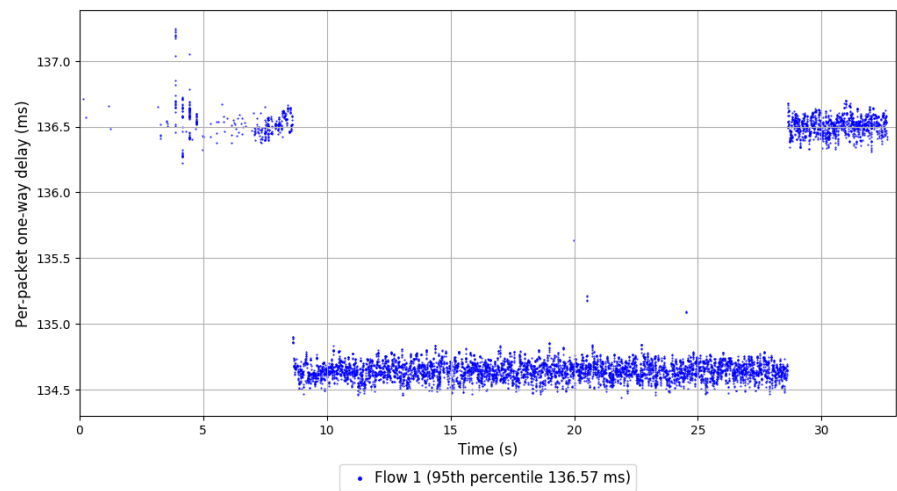
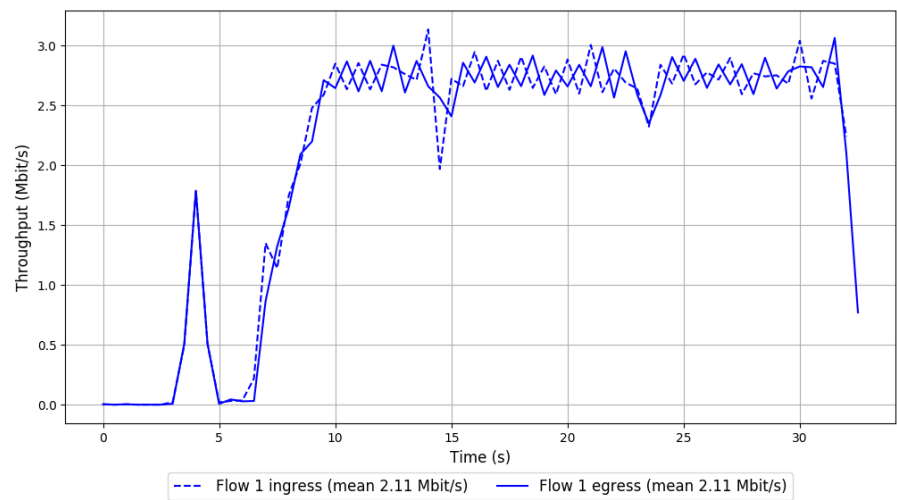
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.567 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-11 20:33:18

End at: 2017-12-11 20:33:48

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.478 ms

Loss rate: 0.00%

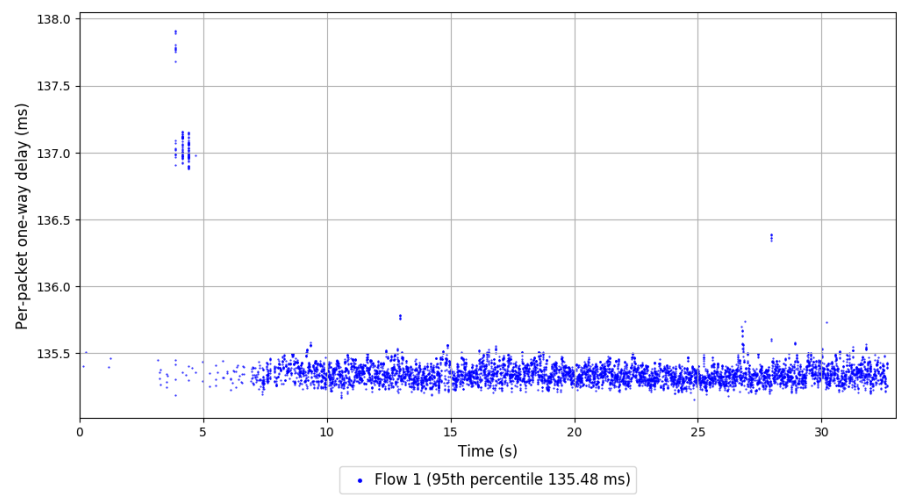
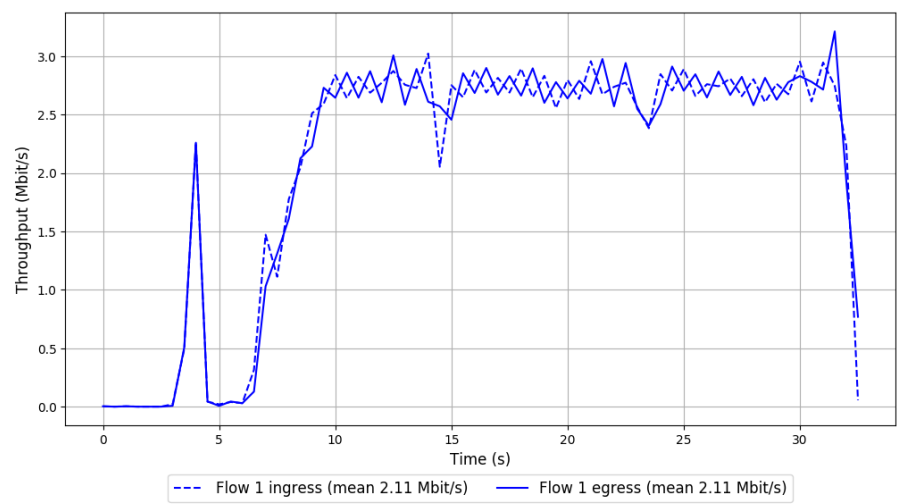
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.478 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-11 20:44:27

End at: 2017-12-11 20:44:57

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 137.141 ms

Loss rate: 0.00%

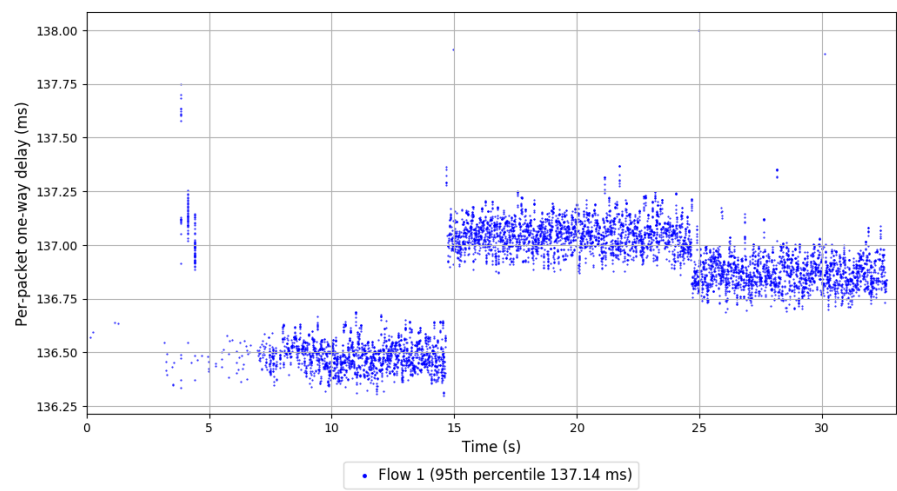
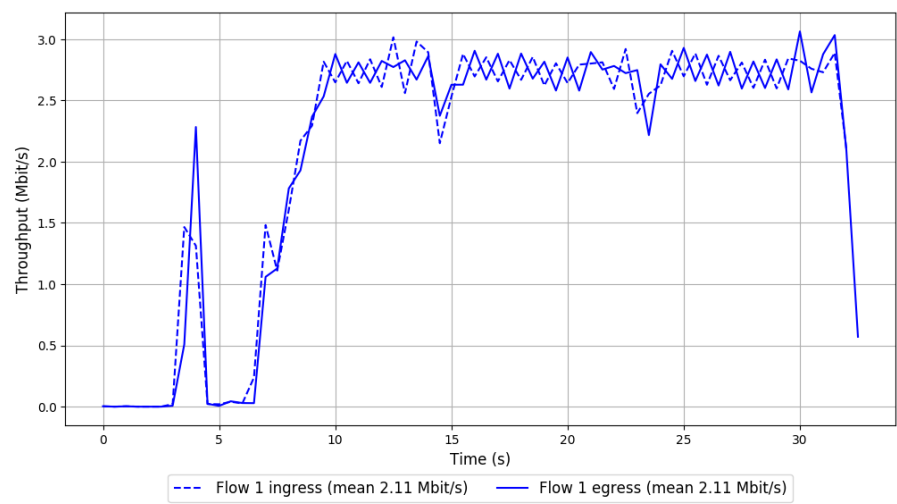
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 137.141 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-11 20:55:53

End at: 2017-12-11 20:56:23

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.767 ms

Loss rate: 0.00%

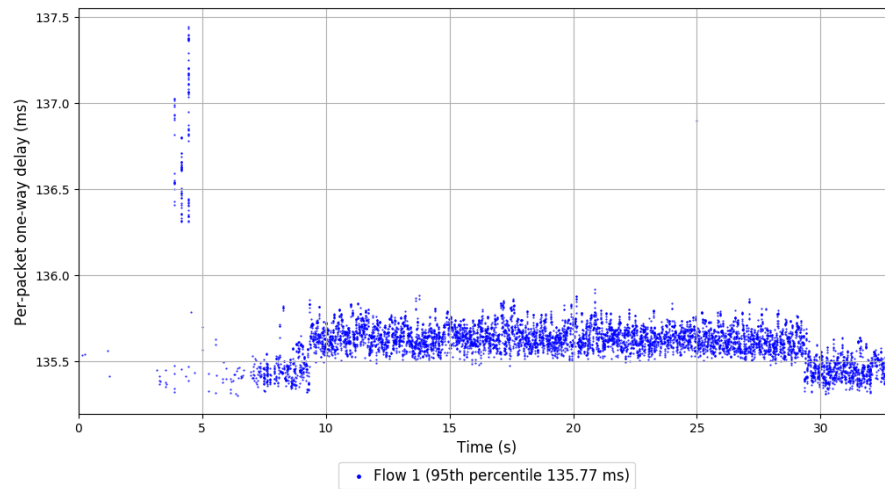
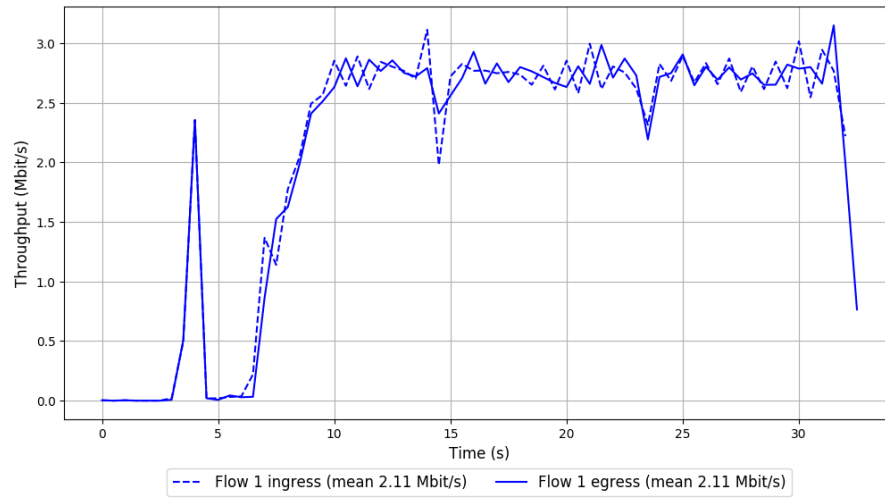
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.767 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-11 21:07:23

End at: 2017-12-11 21:07:53

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.559 ms

Loss rate: 0.00%

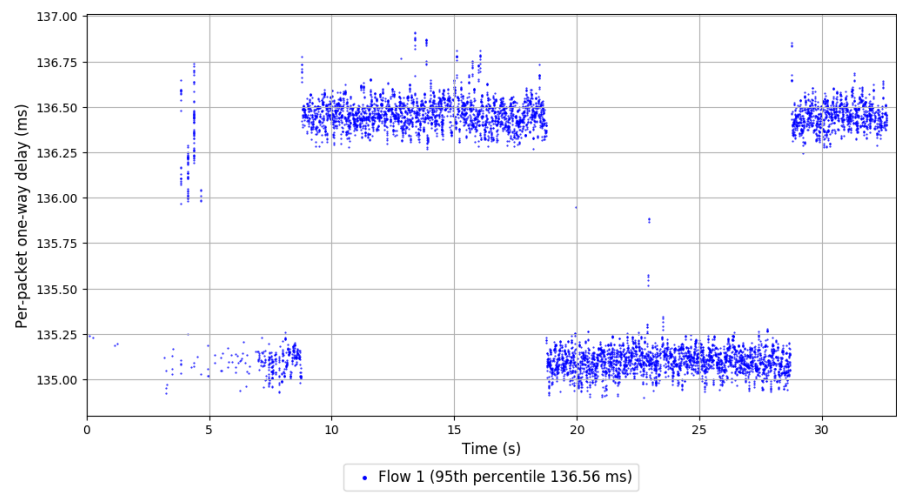
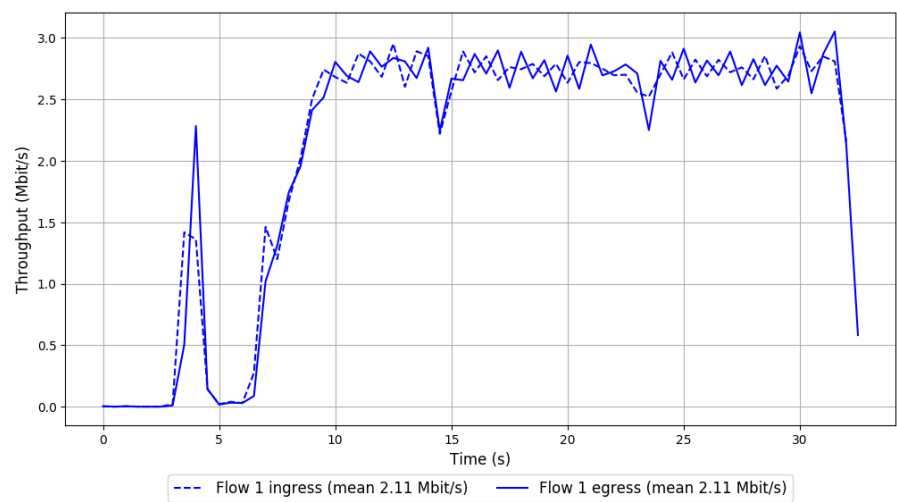
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.559 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

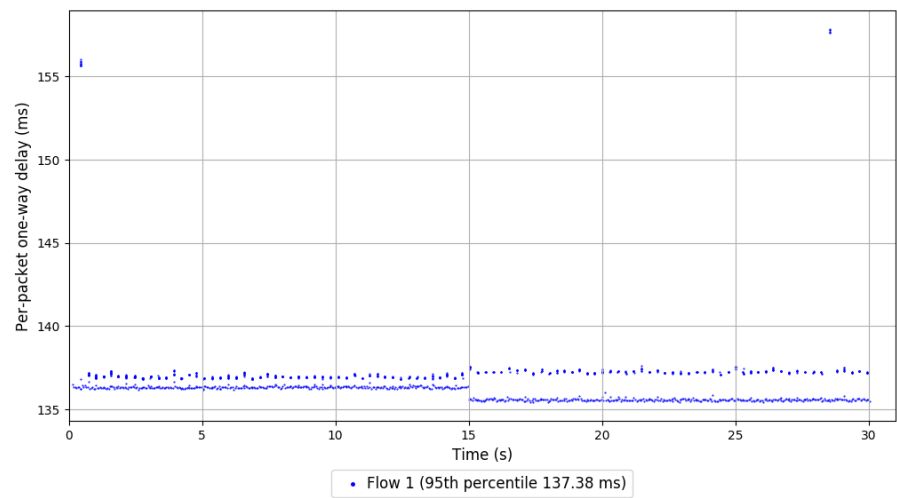
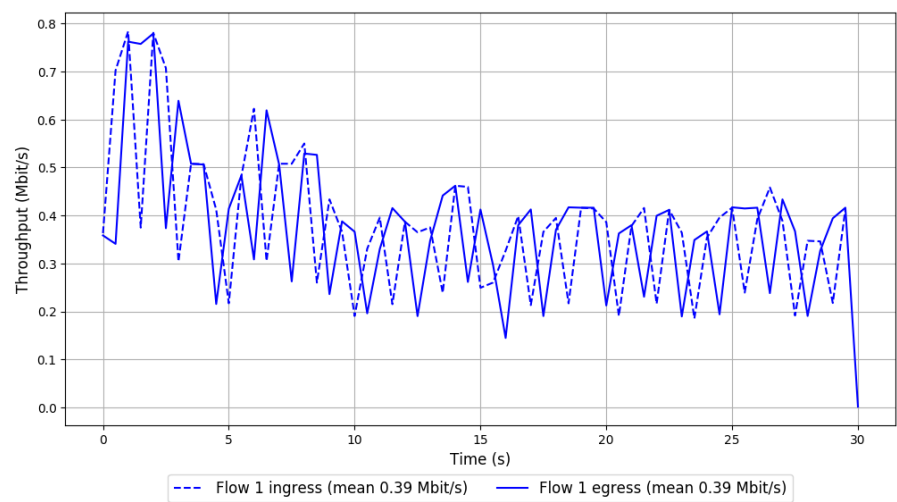


```
Run 1: Statistics of Sprout

Start at: 2017-12-11 19:18:34
End at: 2017-12-11 19:19:05

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 137.379 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 137.379 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-11 19:30:07

End at: 2017-12-11 19:30:37

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.417 ms

Loss rate: 0.00%

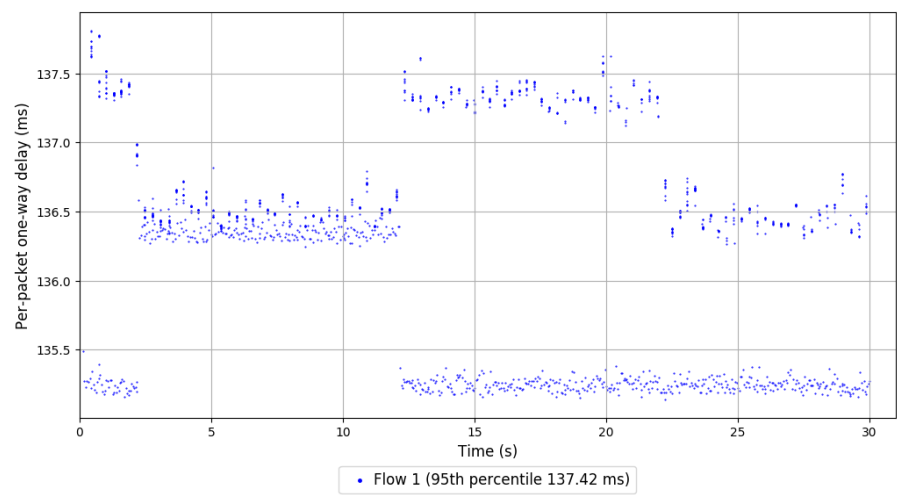
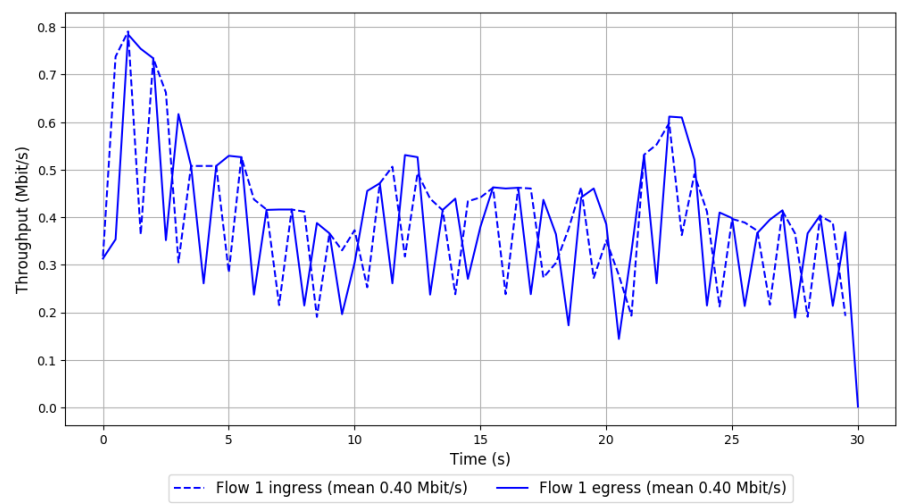
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 137.417 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-11 19:41:38

End at: 2017-12-11 19:42:08

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.396 ms

Loss rate: 0.00%

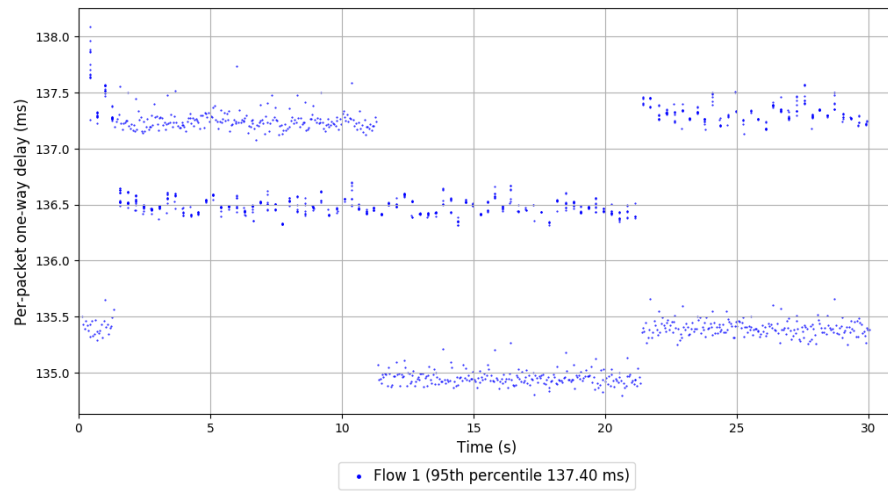
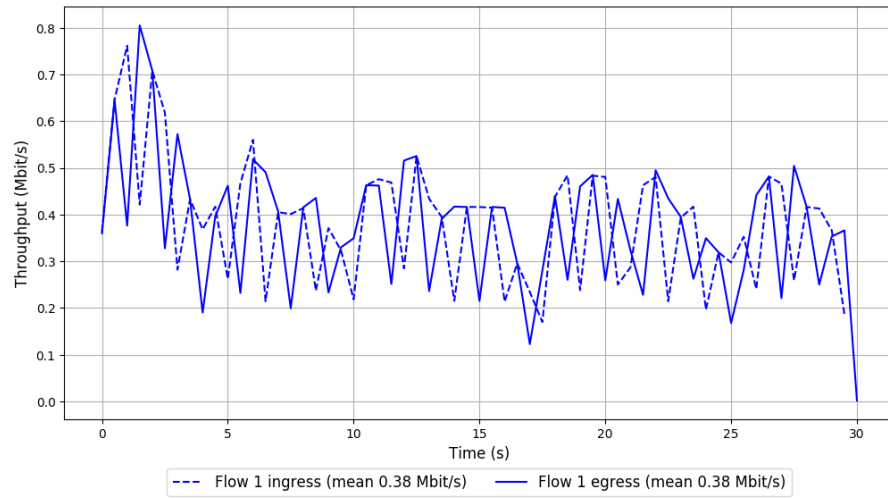
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.396 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

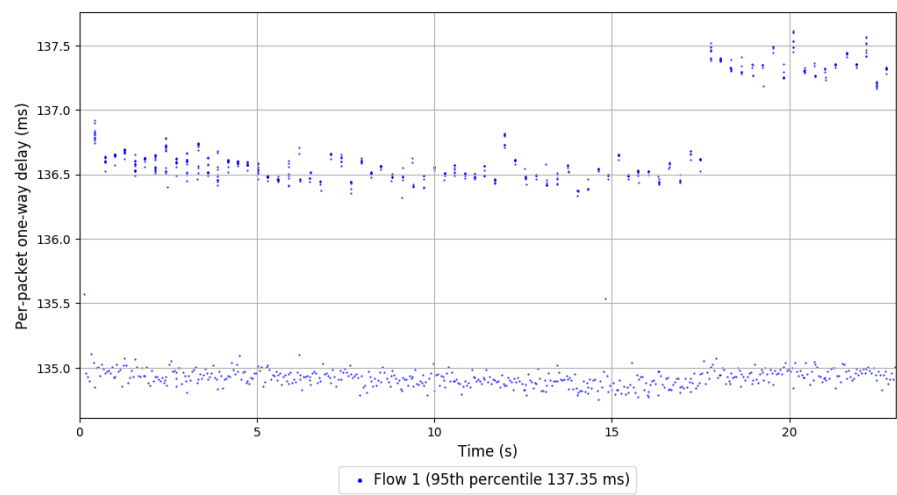
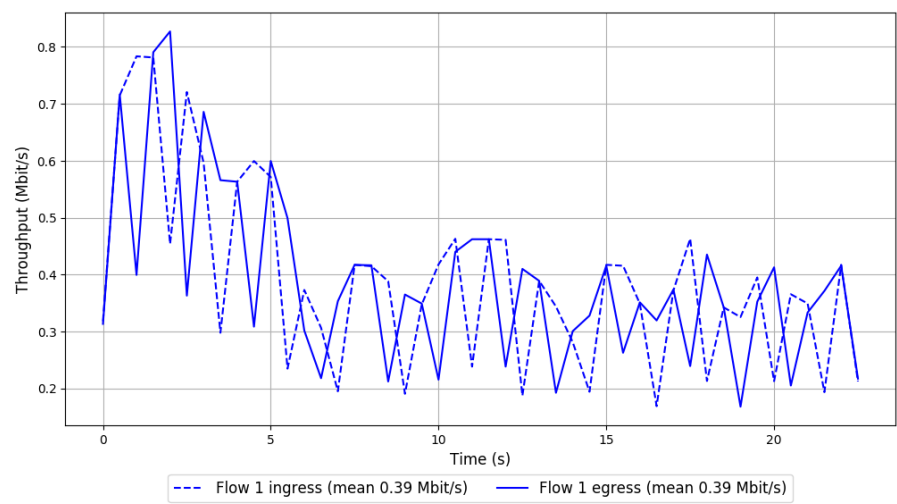


Run 4: Statistics of Sprout

Start at: 2017-12-11 19:53:15

End at: 2017-12-11 19:53:45

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-11 20:04:55

End at: 2017-12-11 20:05:25

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 136.791 ms

Loss rate: 0.00%

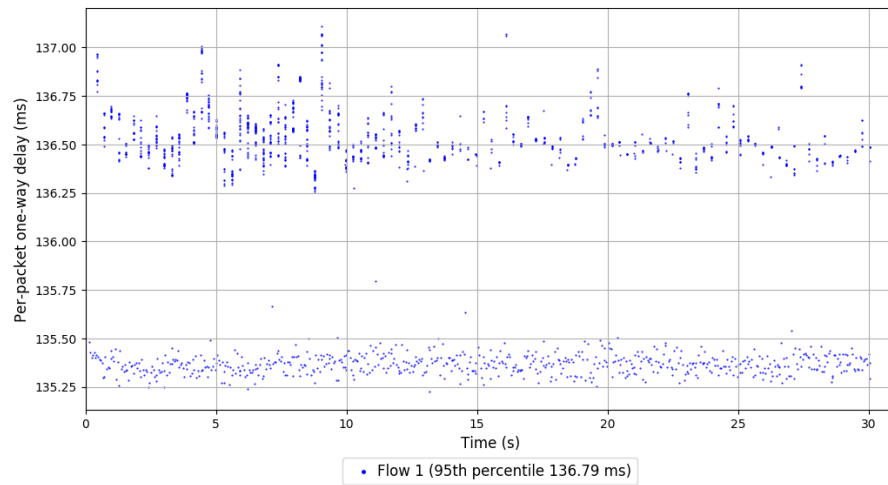
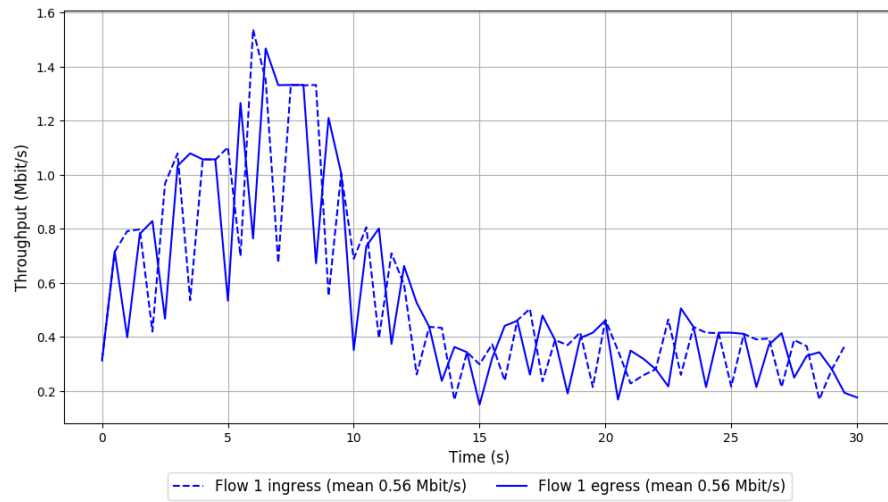
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 136.791 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-11 20:16:36

End at: 2017-12-11 20:17:06

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.956 ms

Loss rate: 0.00%

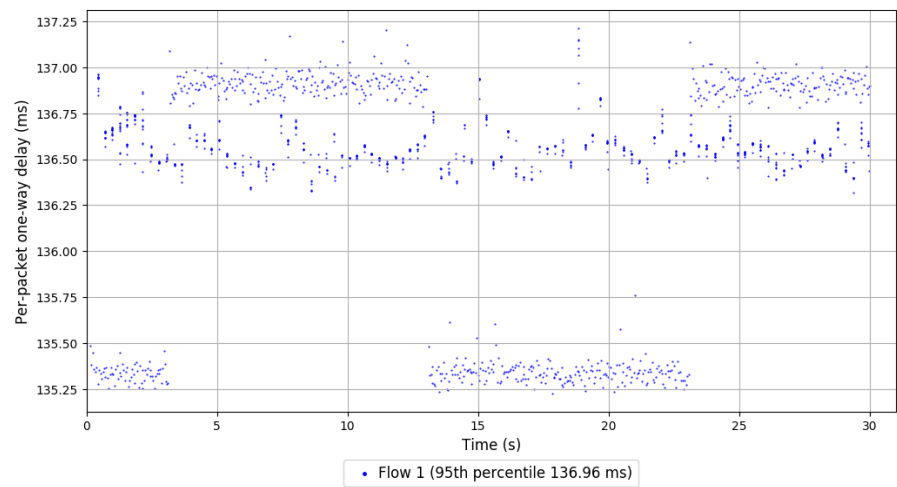
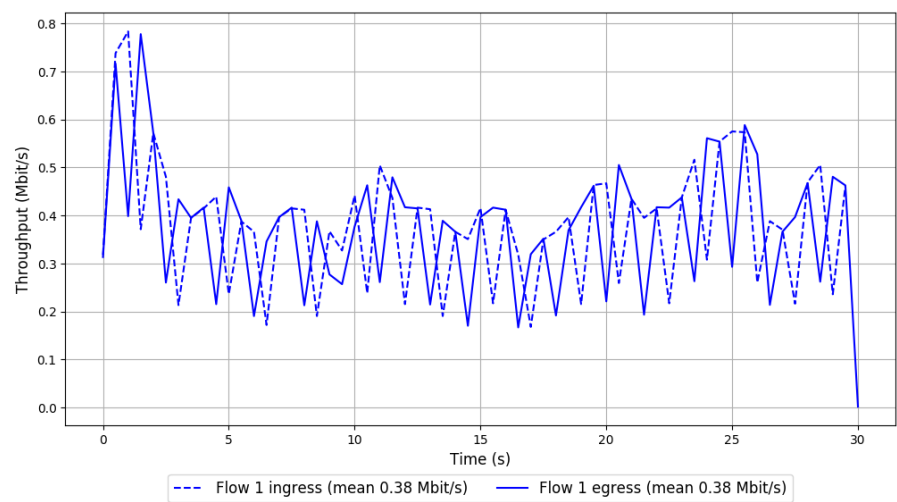
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.956 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-11 20:27:50

End at: 2017-12-11 20:28:20

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.276 ms

Loss rate: 0.00%

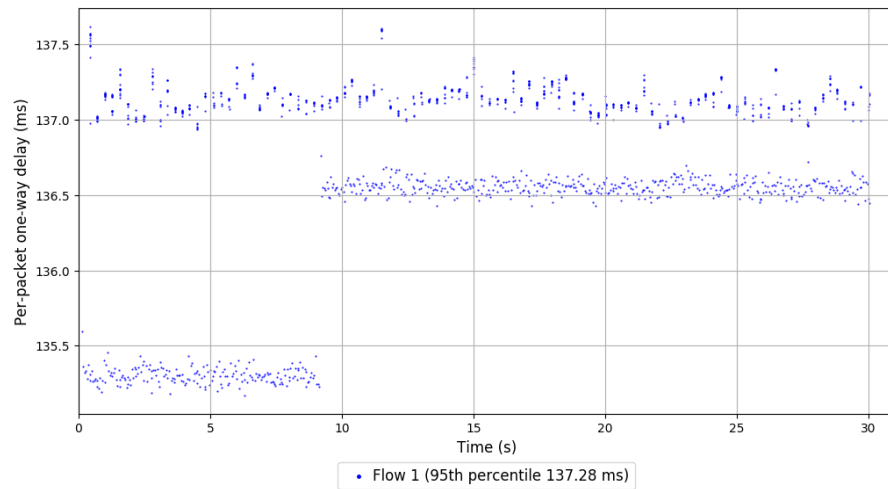
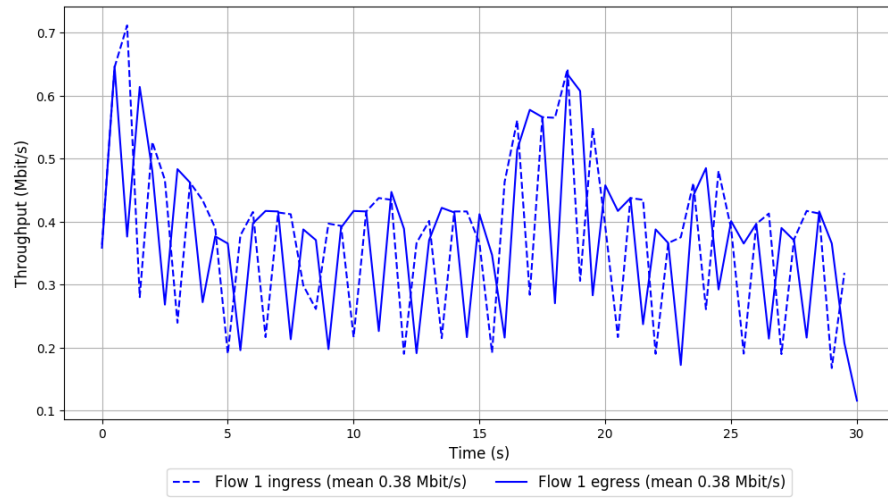
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.276 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-11 20:39:06

End at: 2017-12-11 20:39:36

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 0.00%

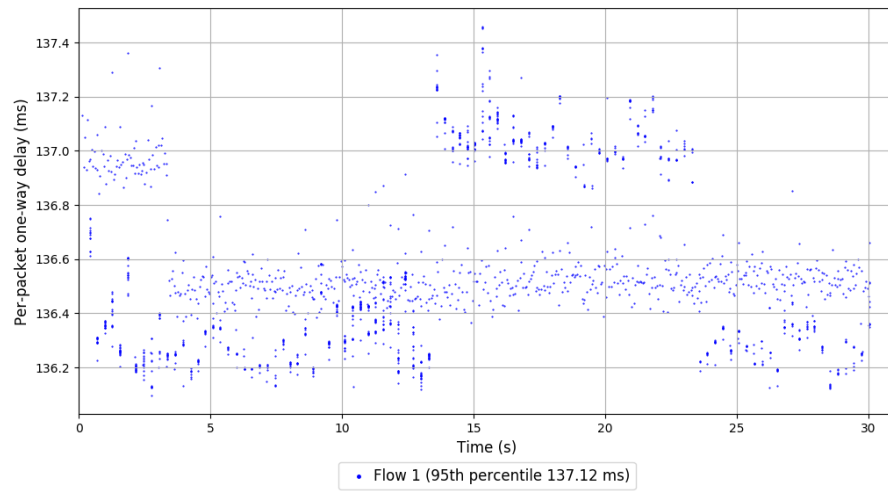
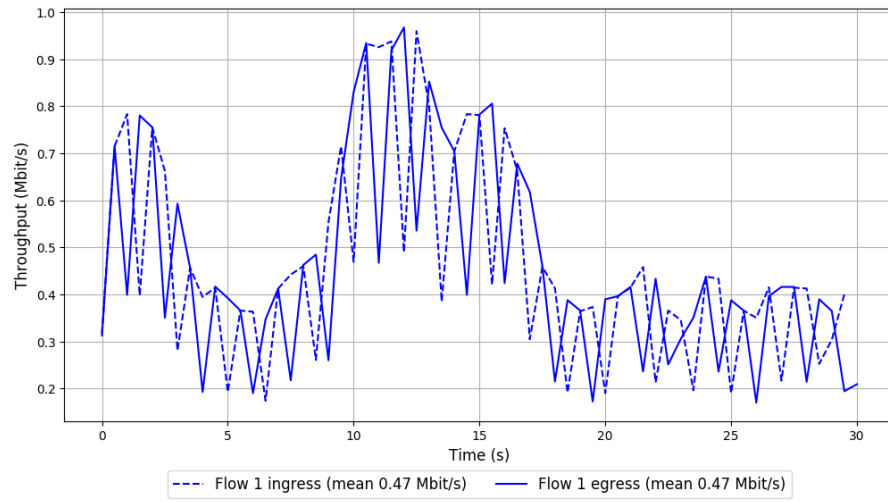
-- Flow 1:

Average throughput: 0.47 Mbit/s

95th percentile per-packet one-way delay: 137.117 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-11 20:50:12

End at: 2017-12-11 20:50:43

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.347 ms

Loss rate: 0.00%

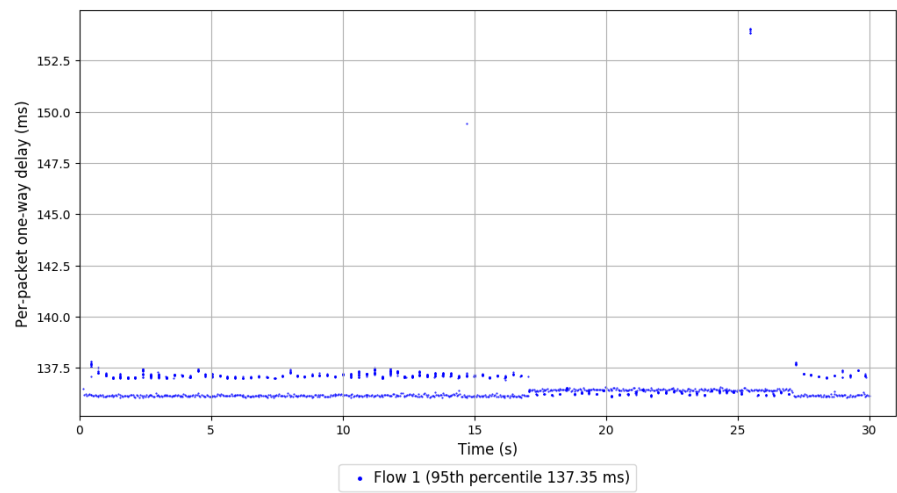
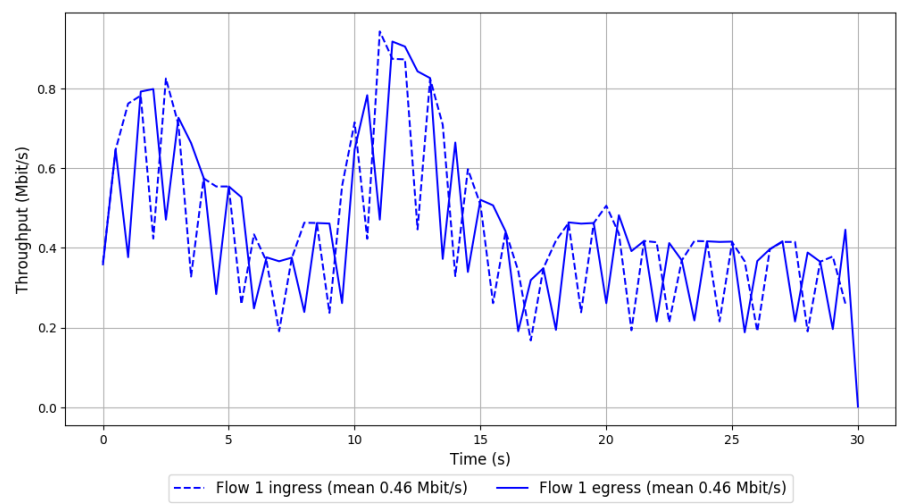
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 137.347 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-11 21:01:38

End at: 2017-12-11 21:02:08

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 136.722 ms

Loss rate: 0.00%

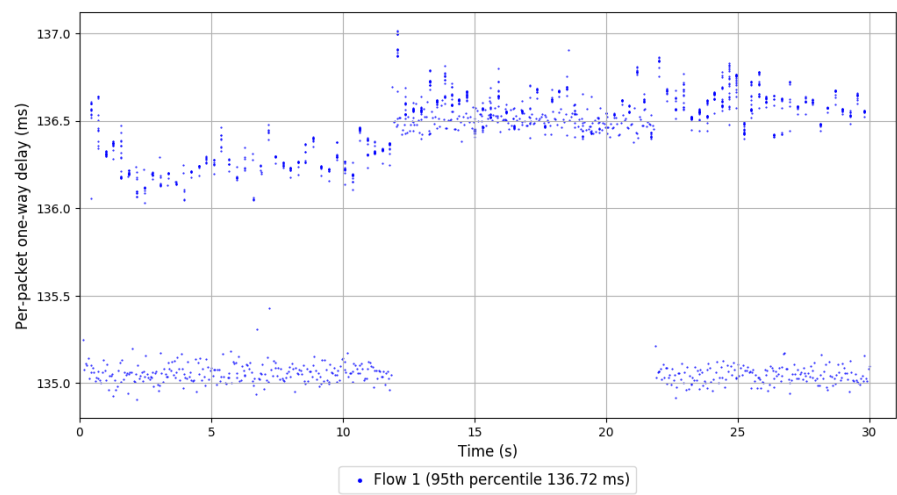
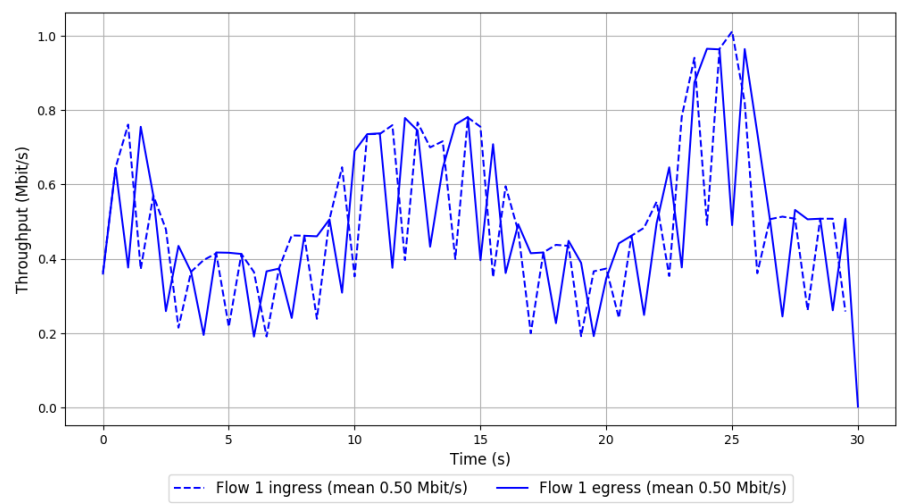
-- Flow 1:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 136.722 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

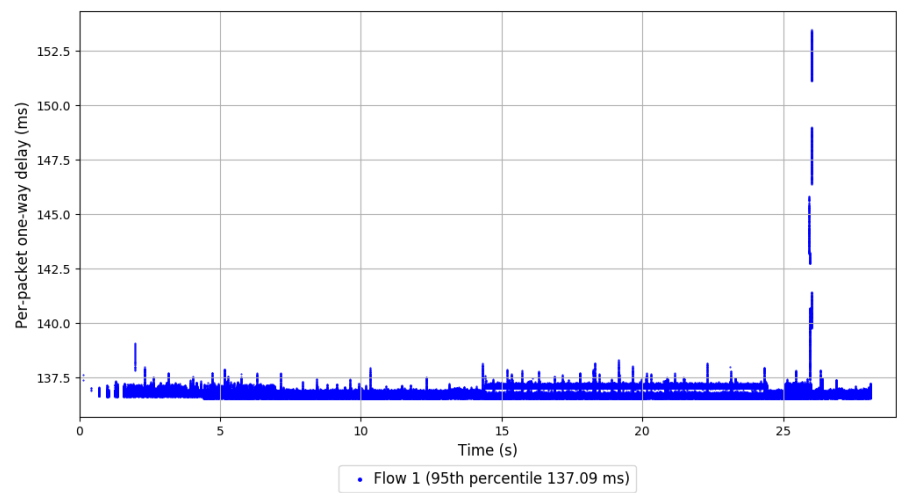
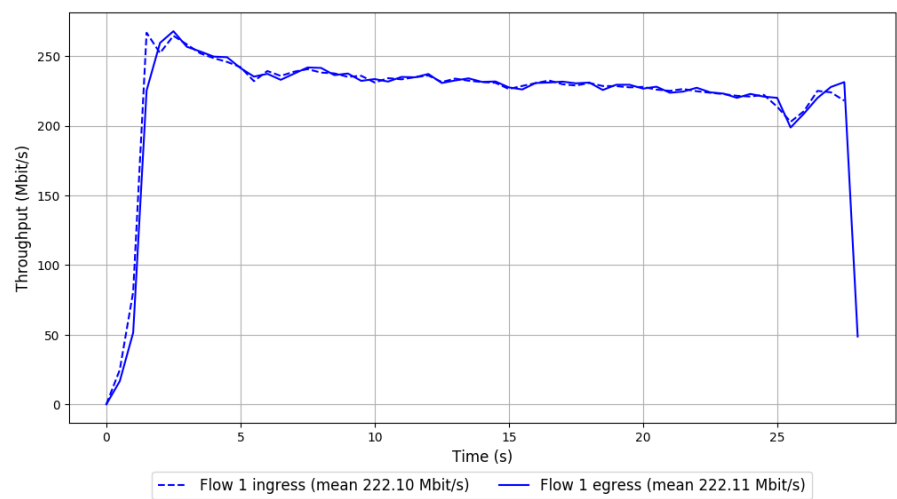


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 19:20:03
End at: 2017-12-11 19:20:33

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.11 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.11 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 0.00%
```

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

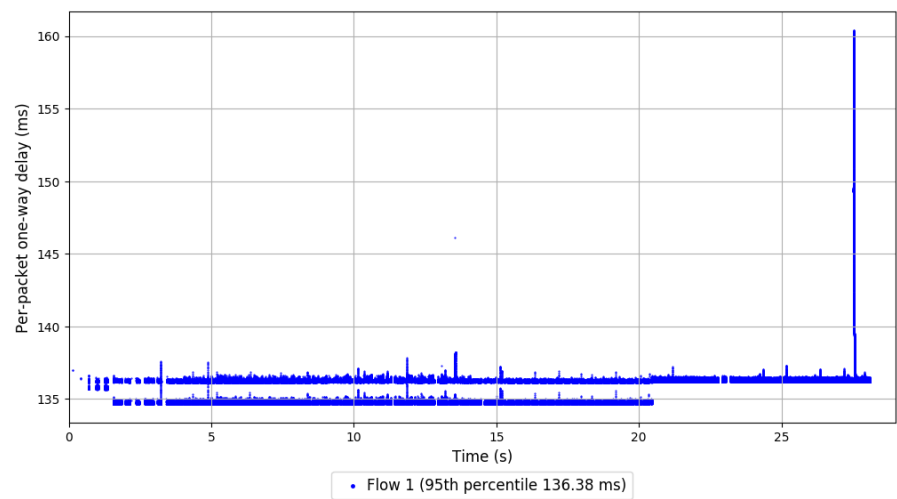
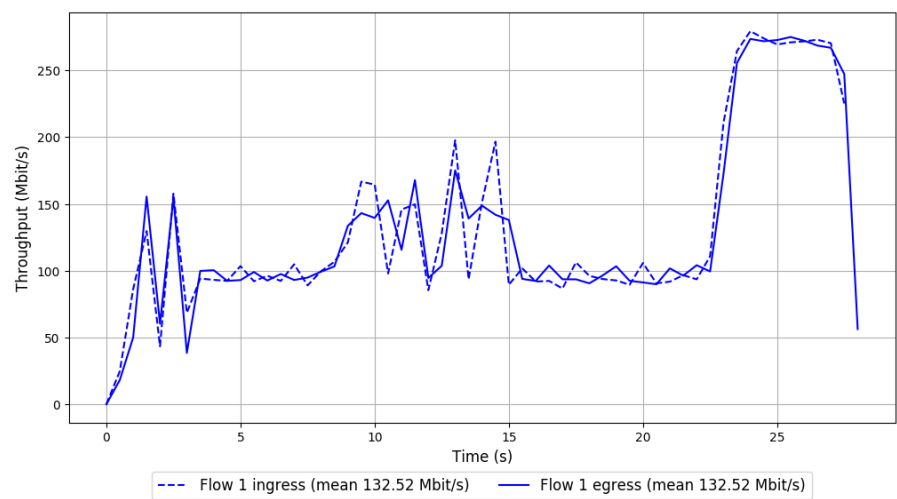


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 19:31:37
End at: 2017-12-11 19:32:07

# Below is generated by plot.py at 2017-12-11 22:07:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.52 Mbit/s
95th percentile per-packet one-way delay: 136.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.52 Mbit/s
95th percentile per-packet one-way delay: 136.380 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 19:43:07

End at: 2017-12-11 19:43:37

Below is generated by plot.py at 2017-12-11 22:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.45 Mbit/s

95th percentile per-packet one-way delay: 136.394 ms

Loss rate: 0.02%

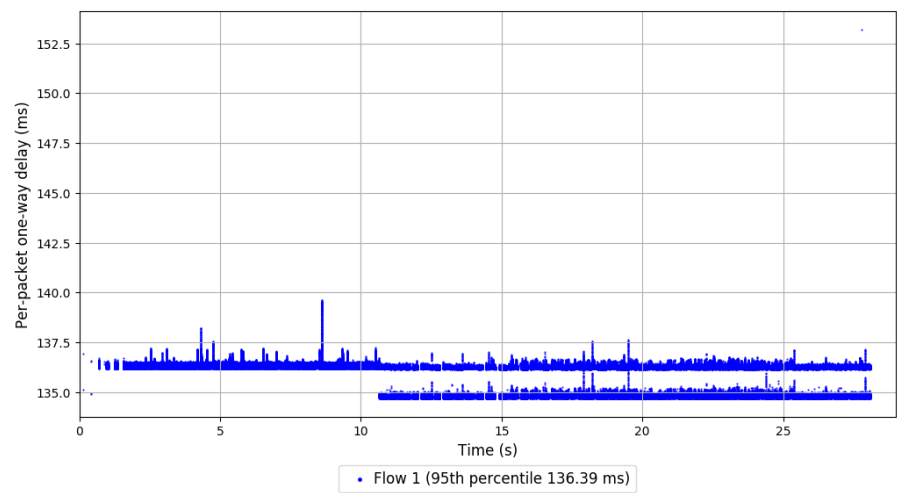
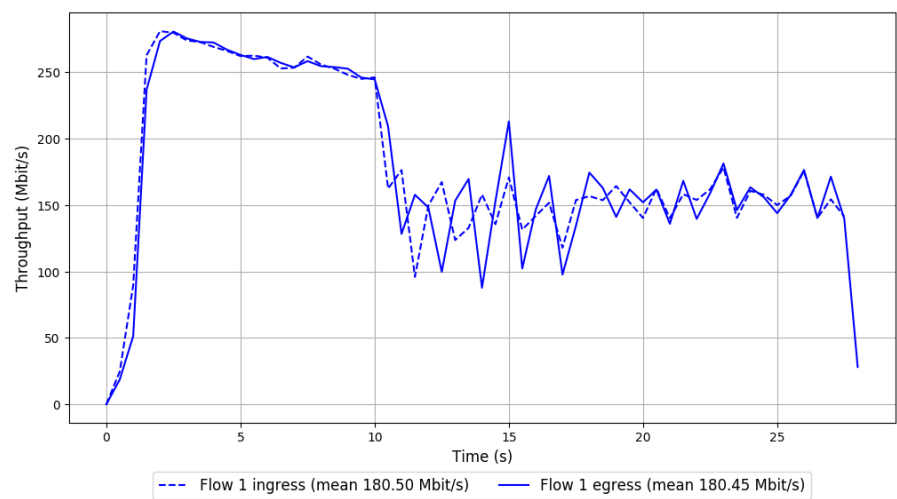
-- Flow 1:

Average throughput: 180.45 Mbit/s

95th percentile per-packet one-way delay: 136.394 ms

Loss rate: 0.02%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 19:54:44

End at: 2017-12-11 19:55:14

Below is generated by plot.py at 2017-12-11 22:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.53 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 0.00%

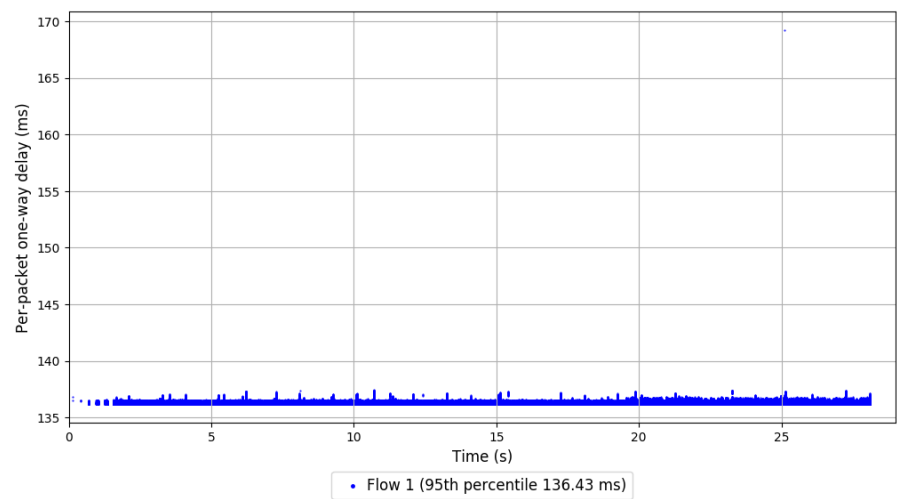
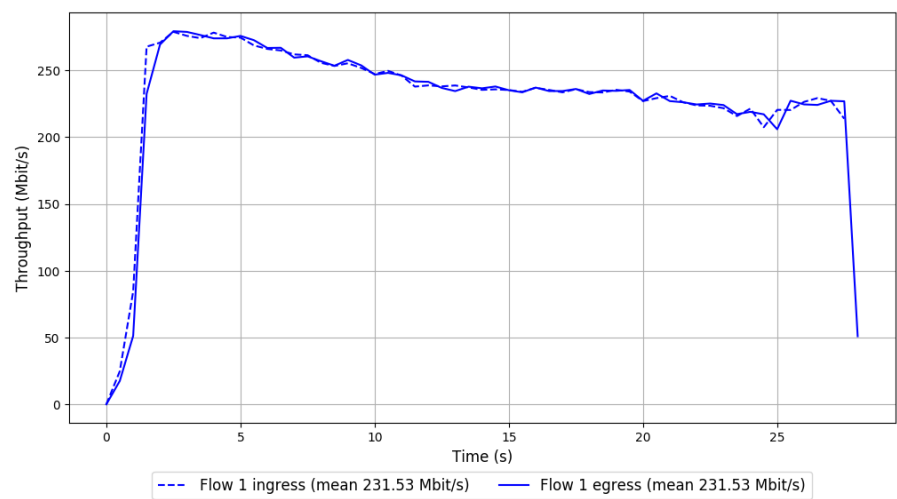
-- Flow 1:

Average throughput: 231.53 Mbit/s

95th percentile per-packet one-way delay: 136.426 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 20:06:24

End at: 2017-12-11 20:06:54

Below is generated by plot.py at 2017-12-11 22:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.17 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 0.00%

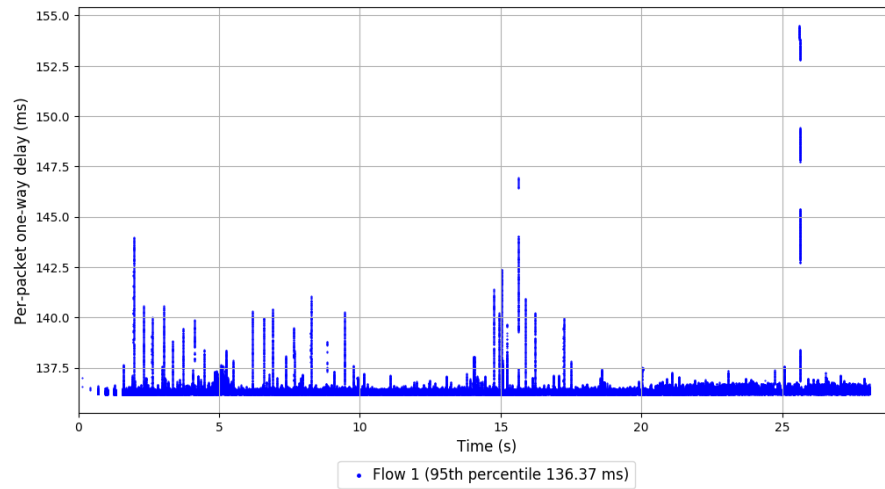
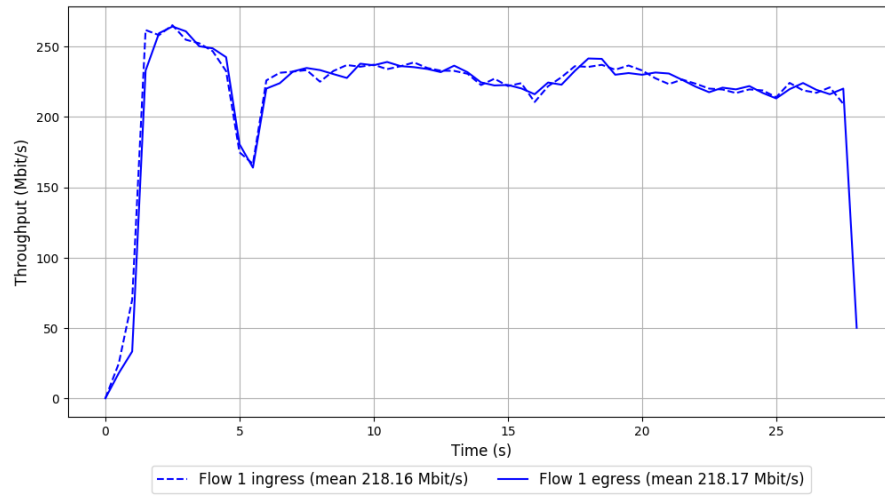
-- Flow 1:

Average throughput: 218.17 Mbit/s

95th percentile per-packet one-way delay: 136.374 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 20:18:05

End at: 2017-12-11 20:18:35

Below is generated by plot.py at 2017-12-11 22:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 137.101 ms

Loss rate: 0.00%

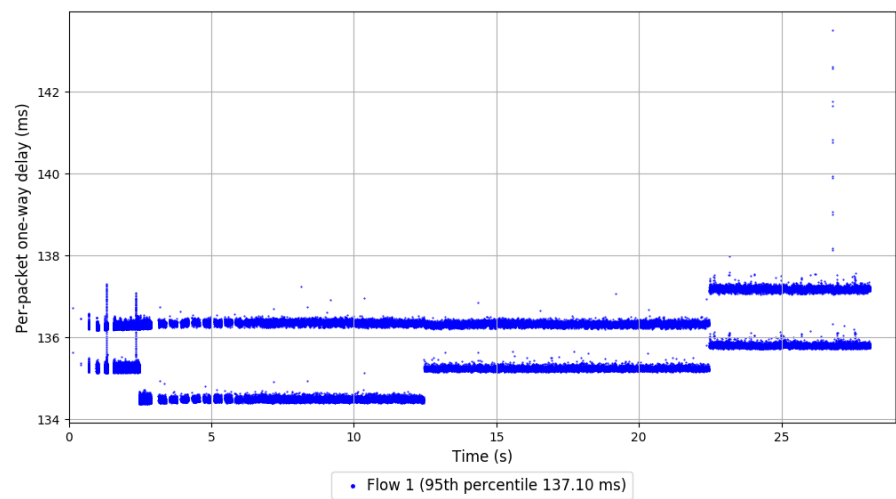
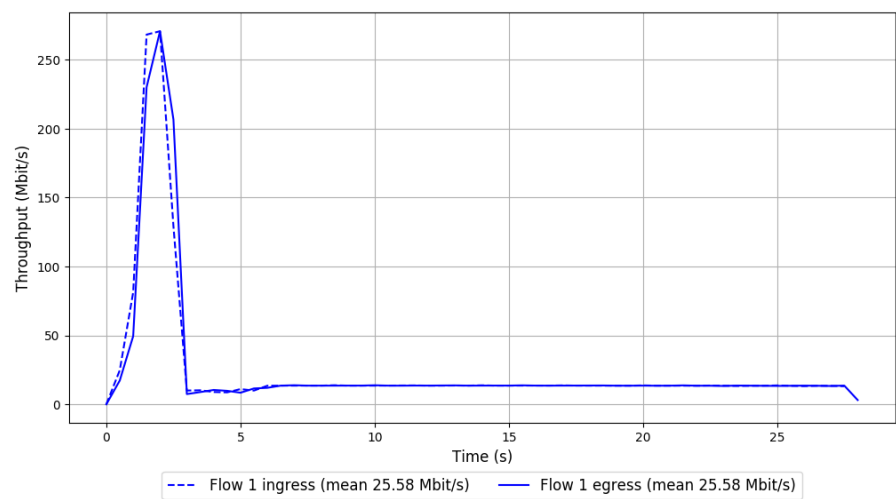
-- Flow 1:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 137.101 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 20:29:19

End at: 2017-12-11 20:29:49

Below is generated by plot.py at 2017-12-11 22:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 136.982 ms

Loss rate: 0.00%

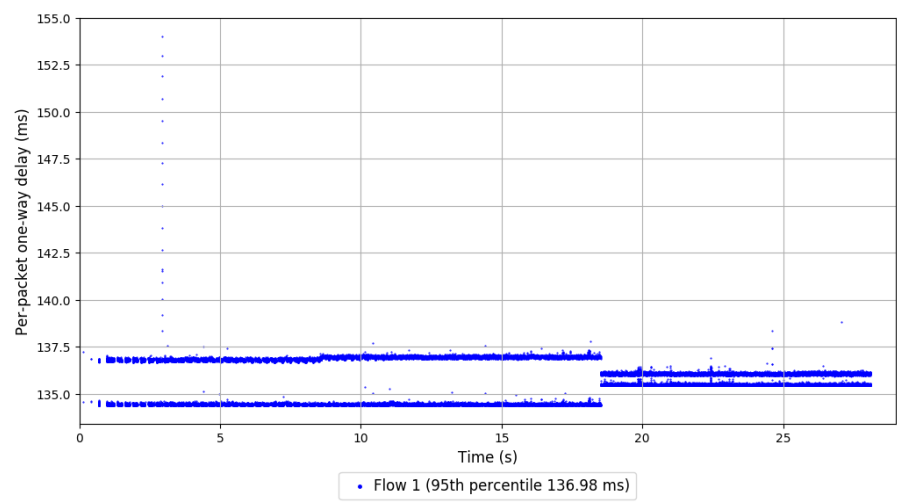
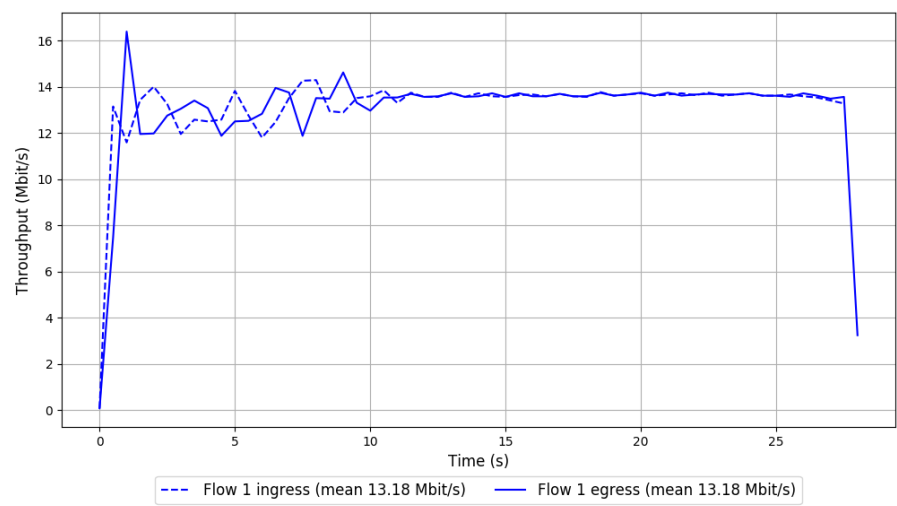
-- Flow 1:

Average throughput: 13.18 Mbit/s

95th percentile per-packet one-way delay: 136.982 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-11 20:40:35

End at: 2017-12-11 20:41:05

Below is generated by plot.py at 2017-12-11 22:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 136.851 ms

Loss rate: 0.00%

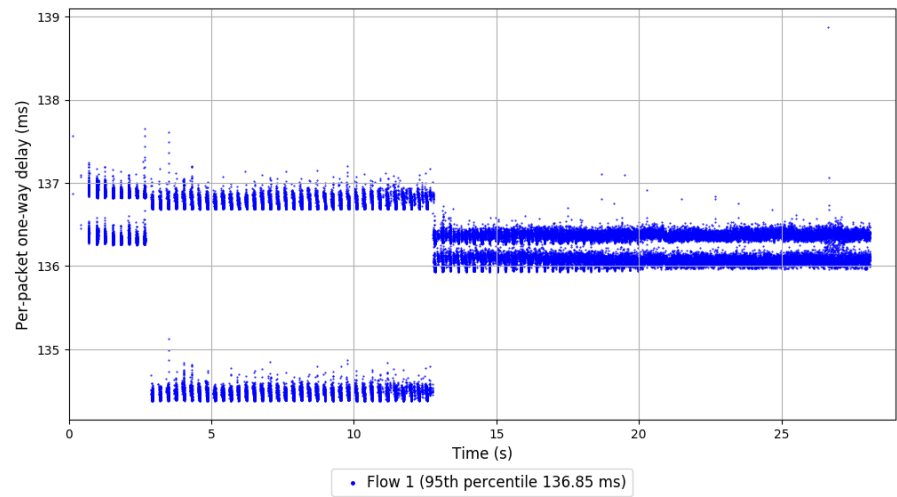
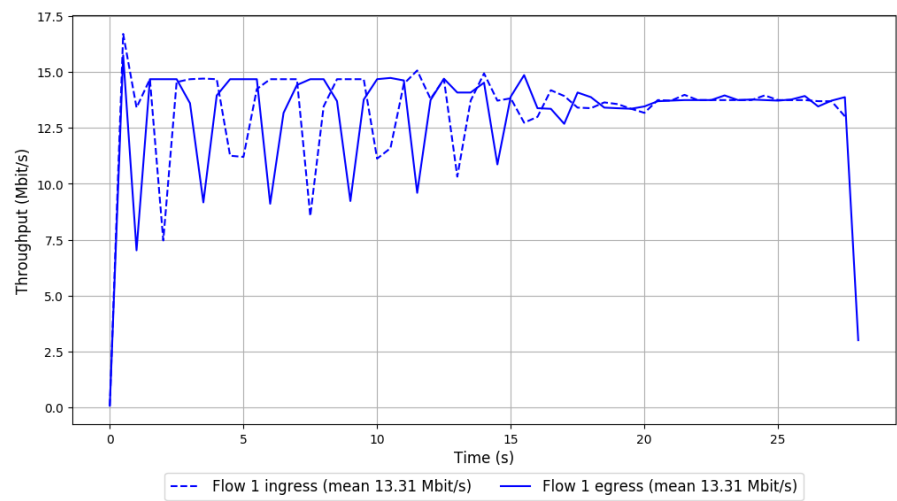
-- Flow 1:

Average throughput: 13.31 Mbit/s

95th percentile per-packet one-way delay: 136.851 ms

Loss rate: 0.00%

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

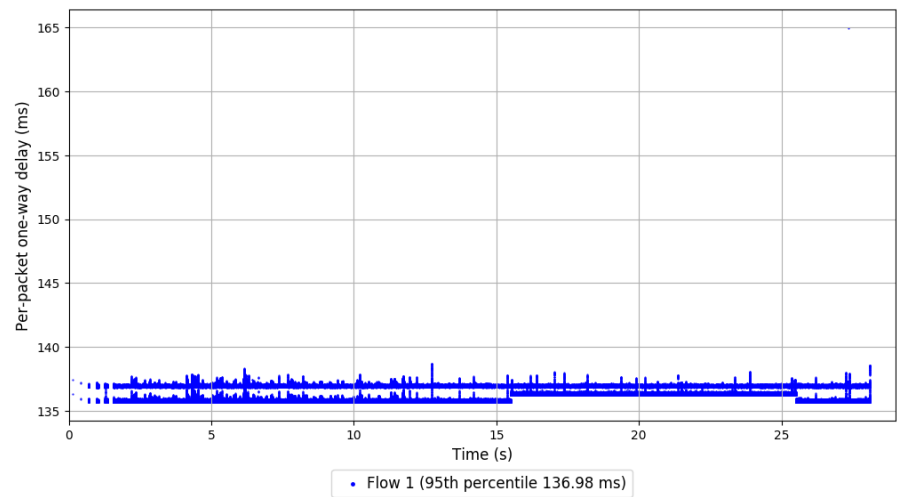
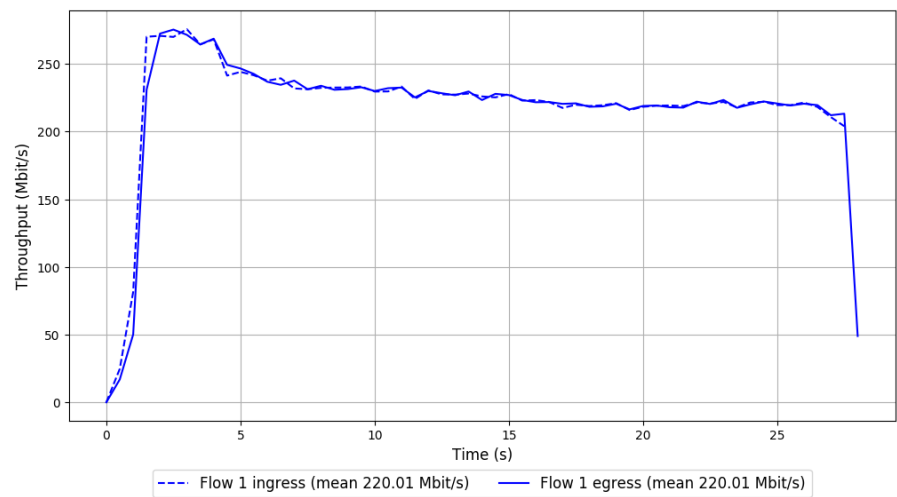


```
Run 9: Statistics of TaoVA-100x

Start at: 2017-12-11 20:51:42
End at: 2017-12-11 20:52:12

# Below is generated by plot.py at 2017-12-11 22:10:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.01 Mbit/s
95th percentile per-packet one-way delay: 136.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.01 Mbit/s
95th percentile per-packet one-way delay: 136.982 ms
Loss rate: 0.00%
```

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

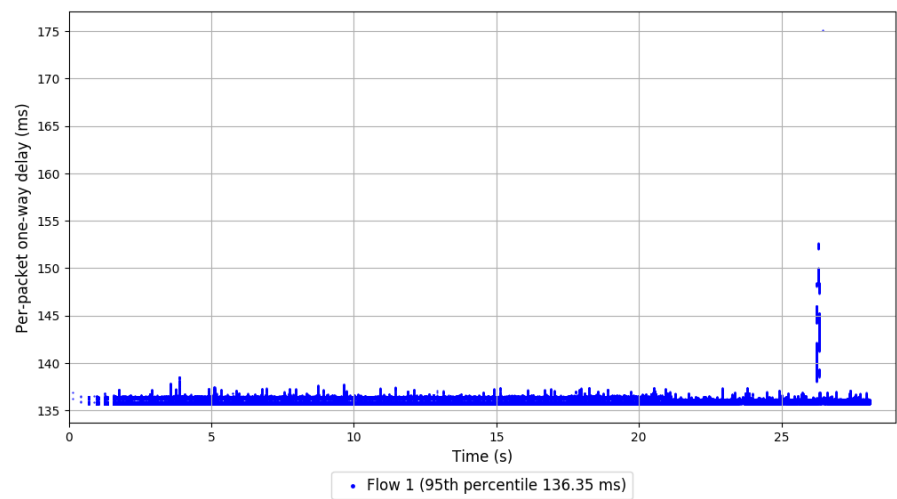
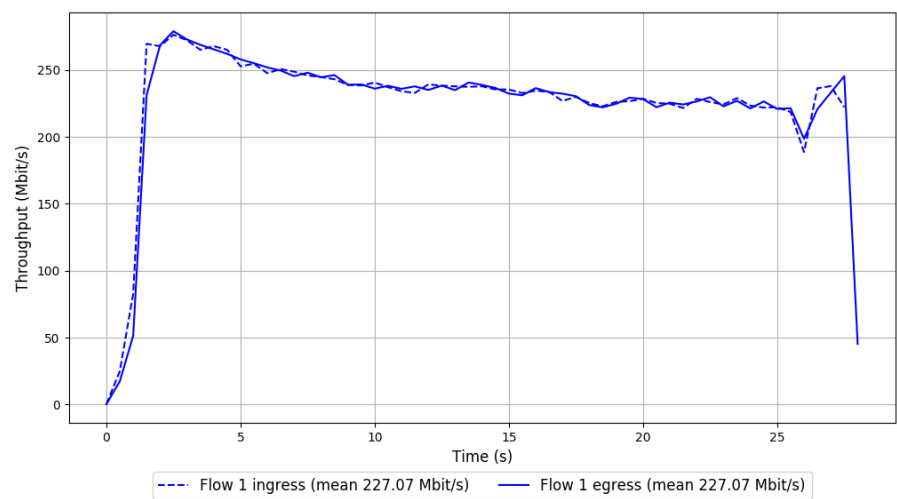


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 21:03:07
End at: 2017-12-11 21:03:37

# Below is generated by plot.py at 2017-12-11 22:12:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.07 Mbit/s
95th percentile per-packet one-way delay: 136.352 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.07 Mbit/s
95th percentile per-packet one-way delay: 136.352 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 19:21:59

End at: 2017-12-11 19:22:29

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 137.964 ms

Loss rate: 0.00%

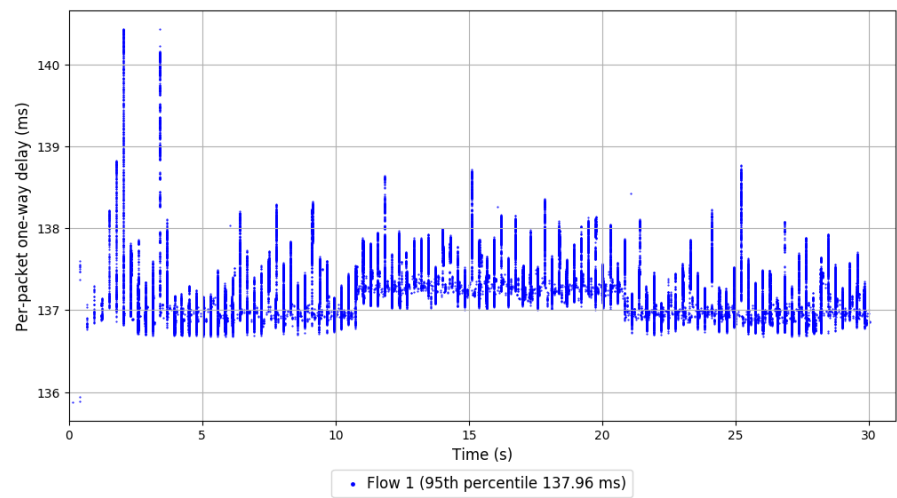
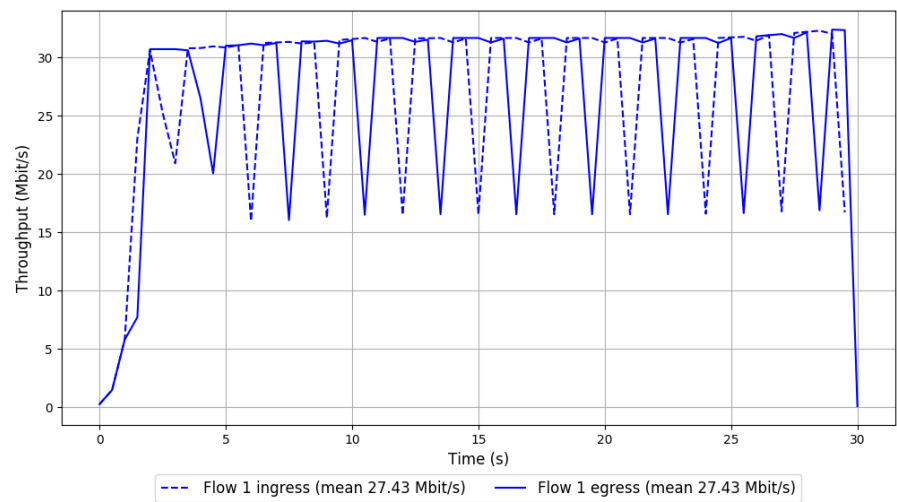
-- Flow 1:

Average throughput: 27.43 Mbit/s

95th percentile per-packet one-way delay: 137.964 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 19:33:27

End at: 2017-12-11 19:33:57

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.43 Mbit/s

95th percentile per-packet one-way delay: 137.283 ms

Loss rate: 0.00%

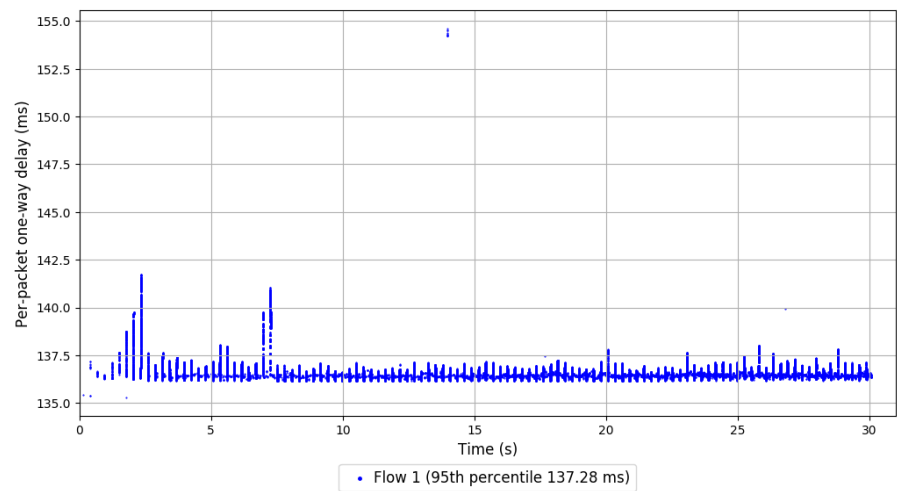
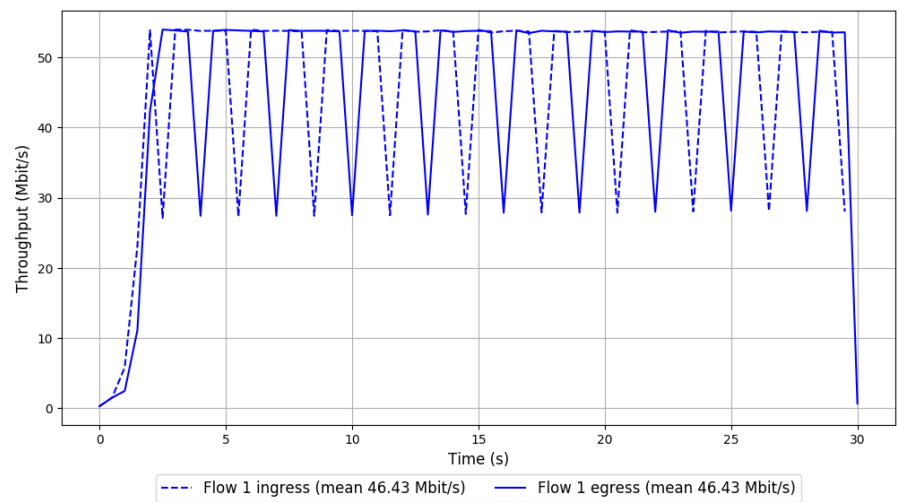
-- Flow 1:

Average throughput: 46.43 Mbit/s

95th percentile per-packet one-way delay: 137.283 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 19:45:06

End at: 2017-12-11 19:45:36

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.55 Mbit/s

95th percentile per-packet one-way delay: 137.731 ms

Loss rate: 0.00%

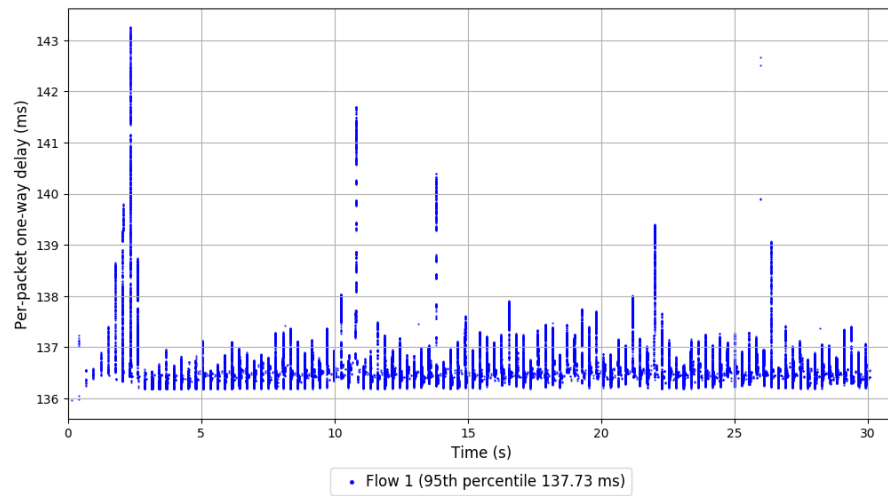
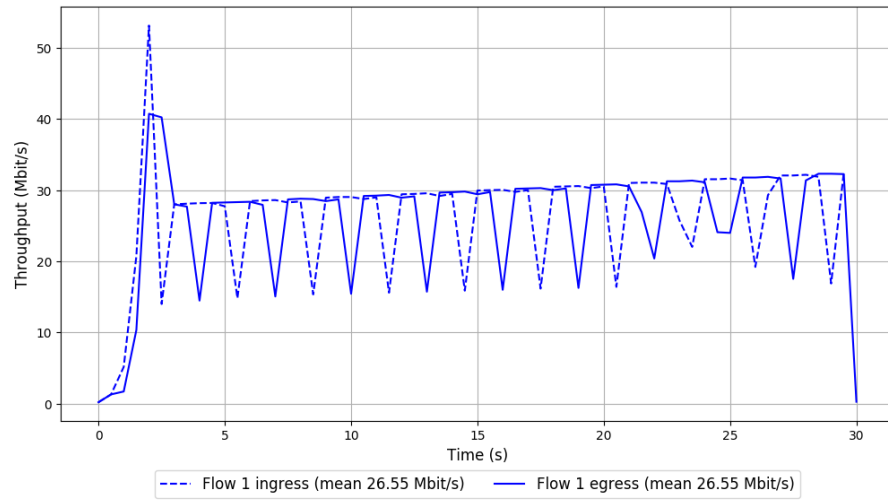
-- Flow 1:

Average throughput: 26.55 Mbit/s

95th percentile per-packet one-way delay: 137.731 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 19:56:47

End at: 2017-12-11 19:57:17

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.74 Mbit/s

95th percentile per-packet one-way delay: 137.804 ms

Loss rate: 0.00%

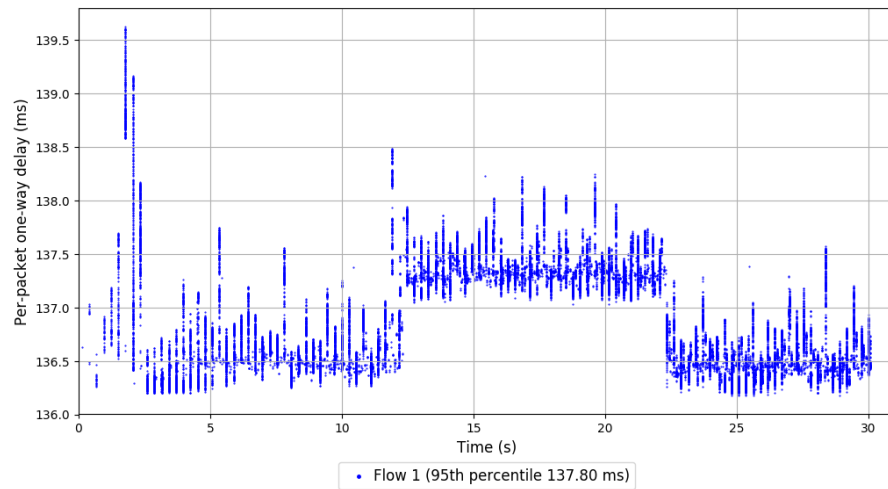
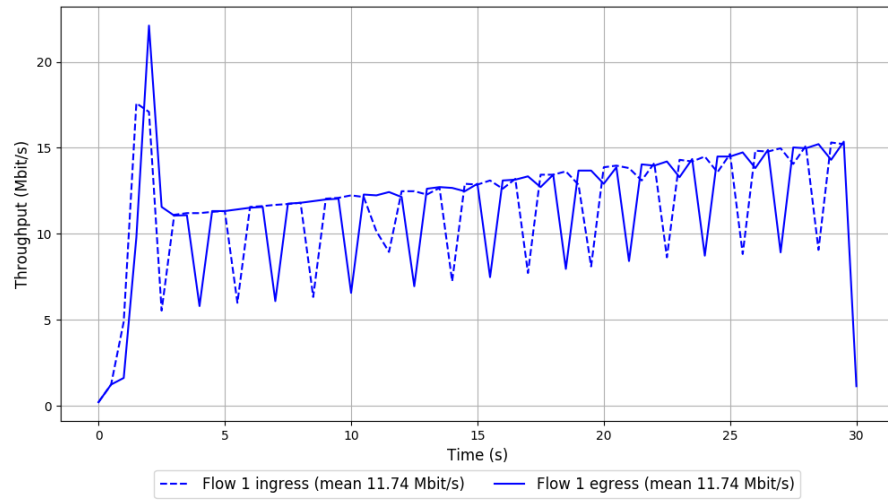
-- Flow 1:

Average throughput: 11.74 Mbit/s

95th percentile per-packet one-way delay: 137.804 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 20:08:28

End at: 2017-12-11 20:08:58

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 138.409 ms

Loss rate: 0.00%

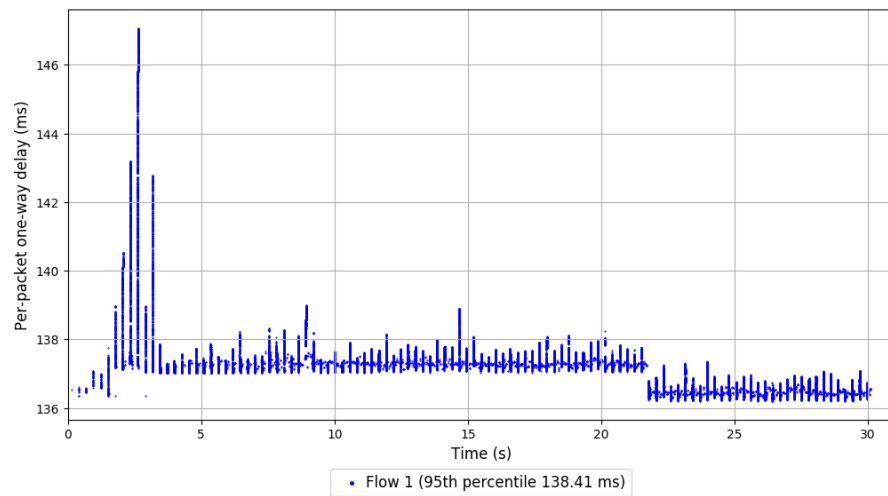
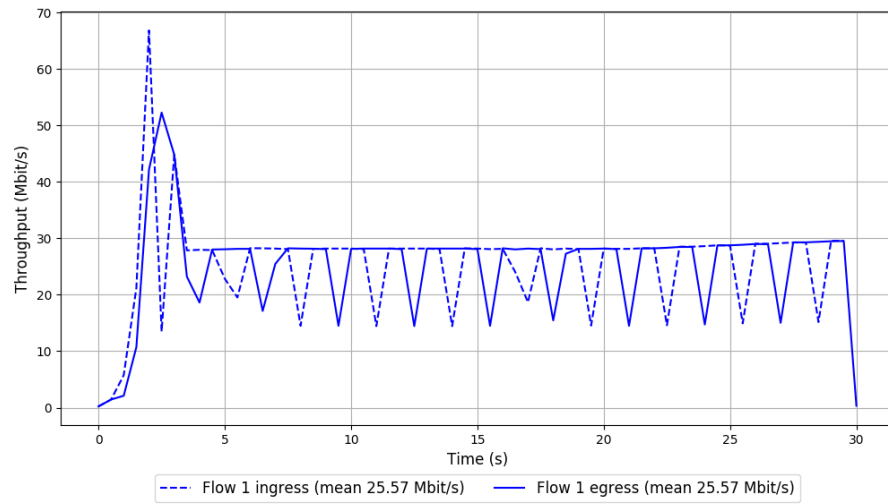
-- Flow 1:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 138.409 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 20:19:42

End at: 2017-12-11 20:20:12

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.80 Mbit/s

95th percentile per-packet one-way delay: 137.747 ms

Loss rate: 0.00%

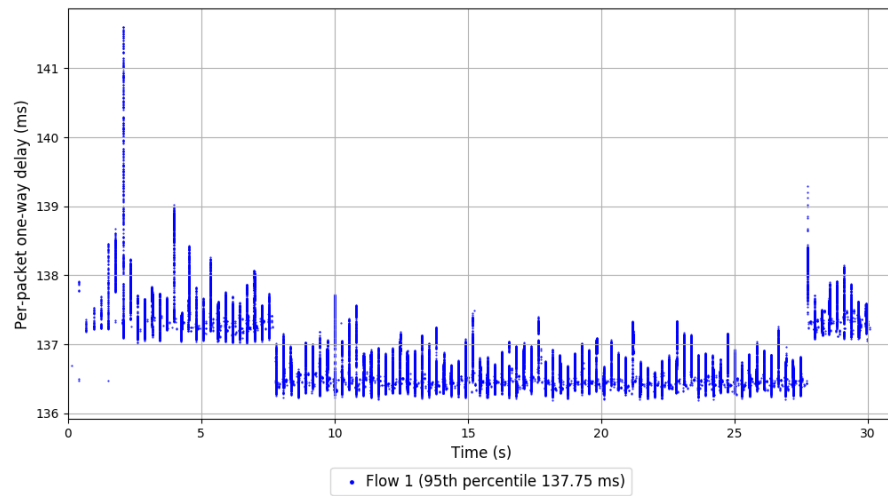
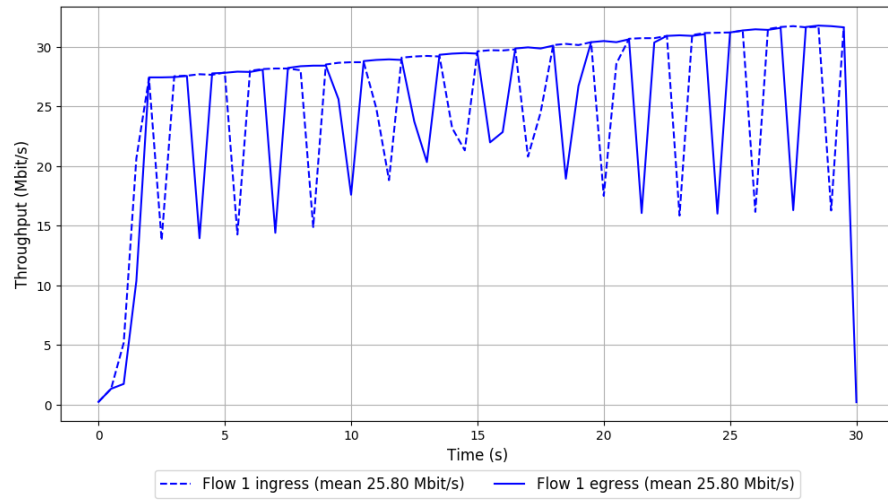
-- Flow 1:

Average throughput: 25.80 Mbit/s

95th percentile per-packet one-way delay: 137.747 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 20:31:04

End at: 2017-12-11 20:31:34

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.94 Mbit/s

95th percentile per-packet one-way delay: 137.969 ms

Loss rate: 0.00%

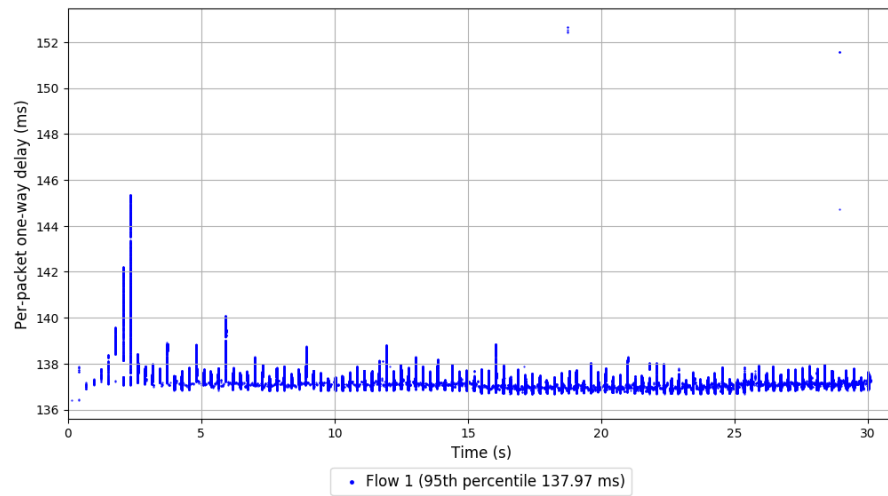
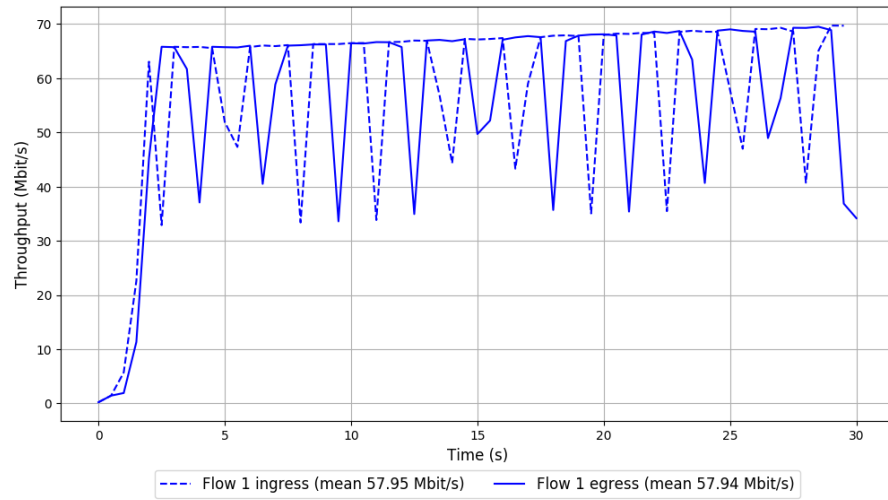
-- Flow 1:

Average throughput: 57.94 Mbit/s

95th percentile per-packet one-way delay: 137.969 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 20:42:15

End at: 2017-12-11 20:42:45

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.76 Mbit/s

95th percentile per-packet one-way delay: 138.044 ms

Loss rate: 0.02%

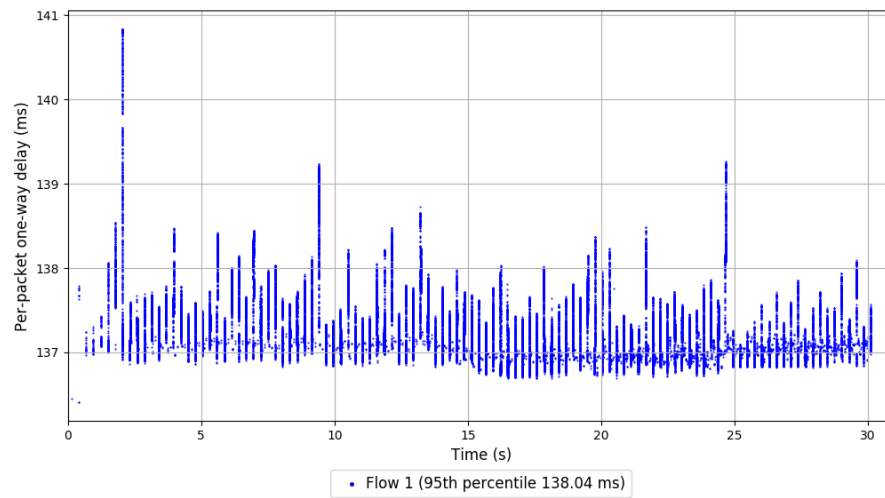
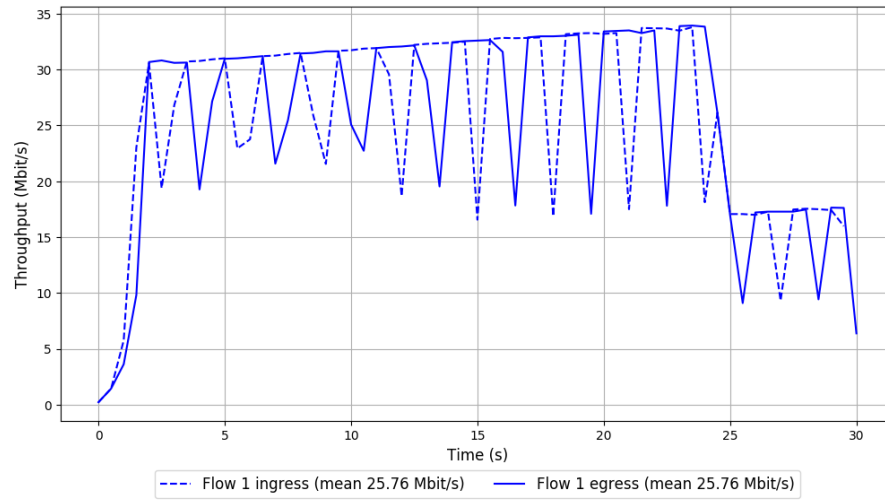
-- Flow 1:

Average throughput: 25.76 Mbit/s

95th percentile per-packet one-way delay: 138.044 ms

Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 20:53:39

End at: 2017-12-11 20:54:09

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.04 Mbit/s

95th percentile per-packet one-way delay: 137.708 ms

Loss rate: 0.00%

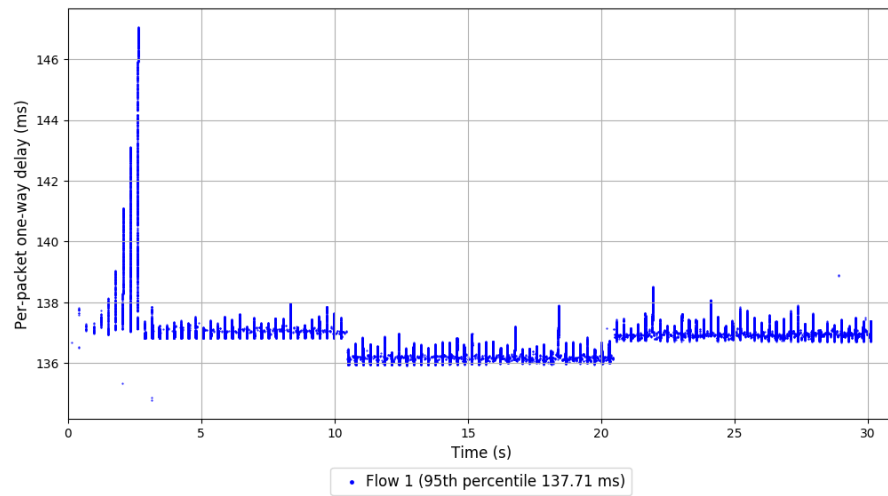
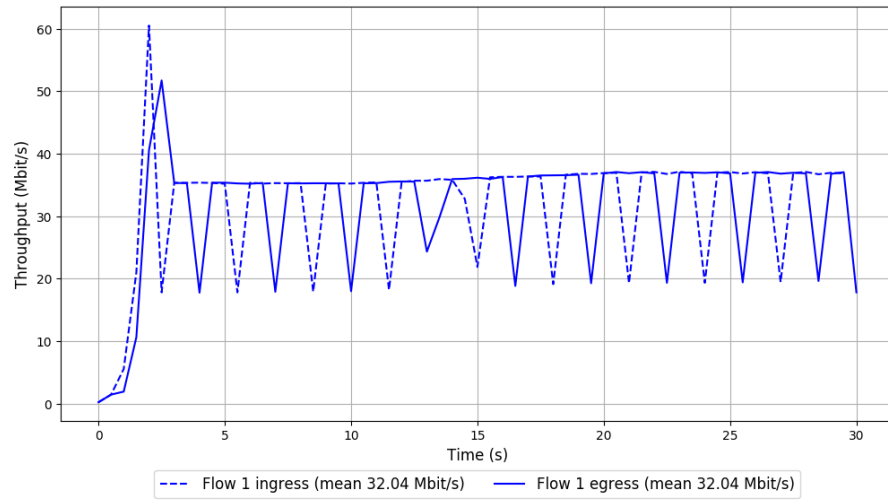
-- Flow 1:

Average throughput: 32.04 Mbit/s

95th percentile per-packet one-way delay: 137.708 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 21:05:11

End at: 2017-12-11 21:05:41

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.01 Mbit/s

95th percentile per-packet one-way delay: 137.990 ms

Loss rate: 0.00%

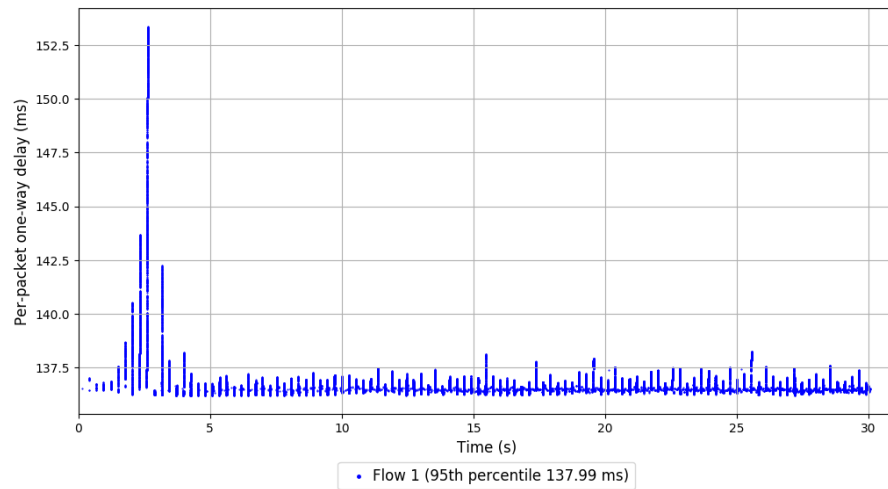
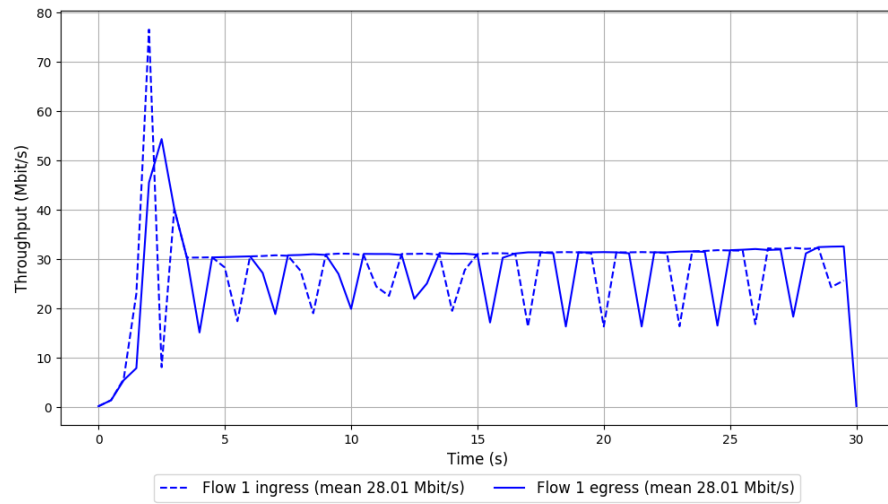
-- Flow 1:

Average throughput: 28.01 Mbit/s

95th percentile per-packet one-way delay: 137.990 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-11 19:21:08

End at: 2017-12-11 19:21:38

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.75 Mbit/s

95th percentile per-packet one-way delay: 156.619 ms

Loss rate: 0.00%

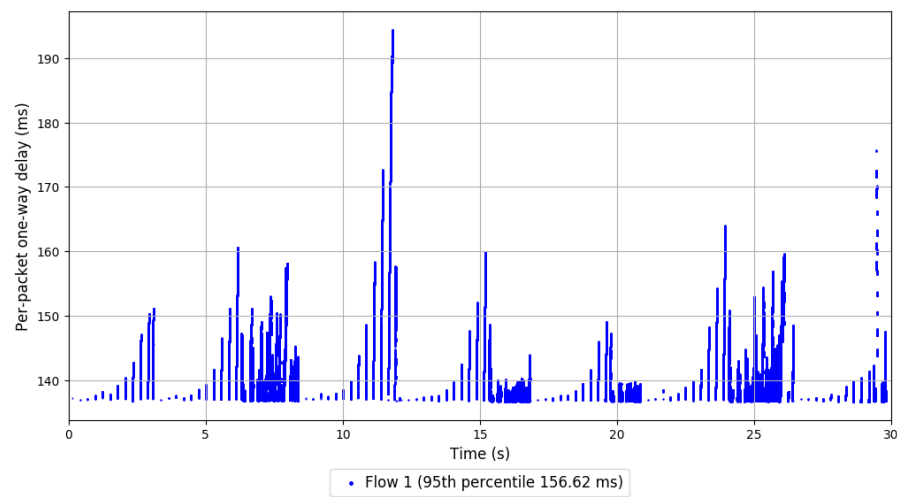
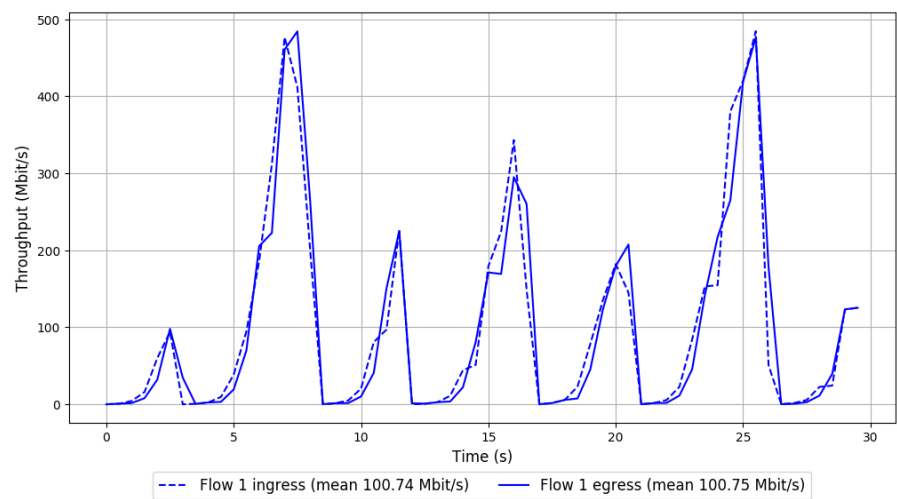
-- Flow 1:

Average throughput: 100.75 Mbit/s

95th percentile per-packet one-way delay: 156.619 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 19:32:33

End at: 2017-12-11 19:33:03

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.89 Mbit/s

95th percentile per-packet one-way delay: 145.911 ms

Loss rate: 0.00%

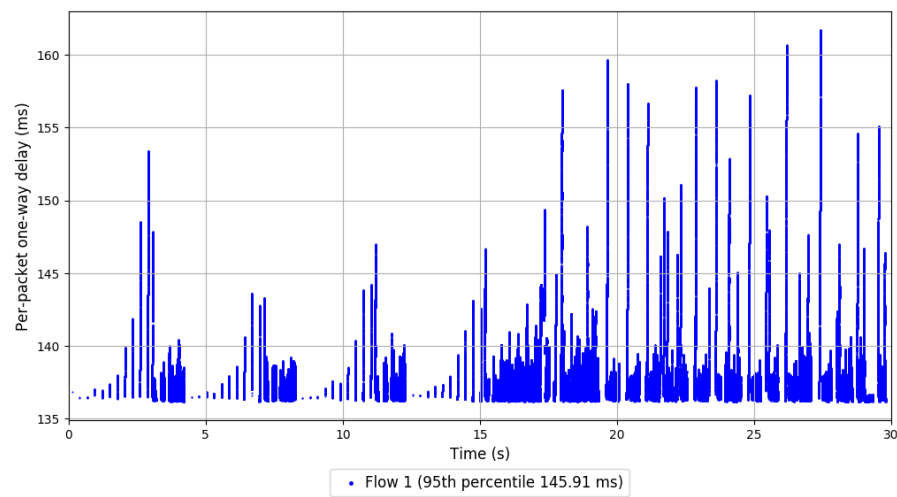
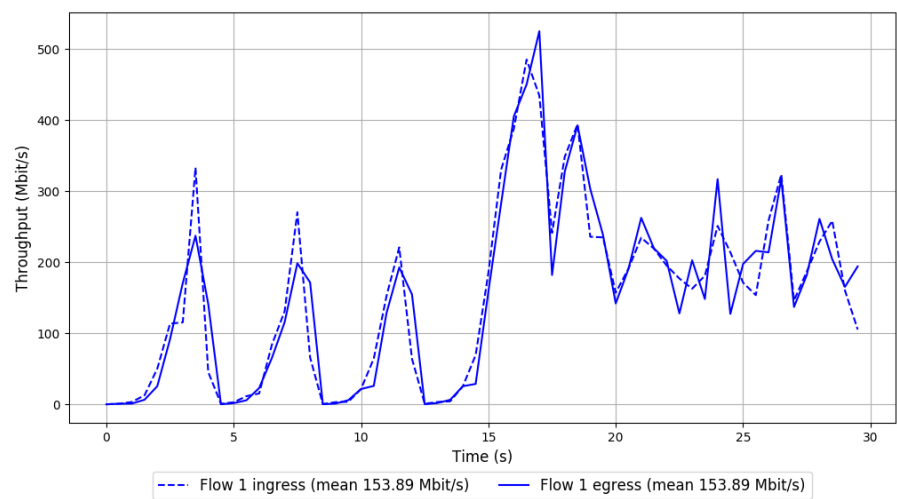
-- Flow 1:

Average throughput: 153.89 Mbit/s

95th percentile per-packet one-way delay: 145.911 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-11 19:44:07

End at: 2017-12-11 19:44:37

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.22 Mbit/s

95th percentile per-packet one-way delay: 170.575 ms

Loss rate: 0.00%

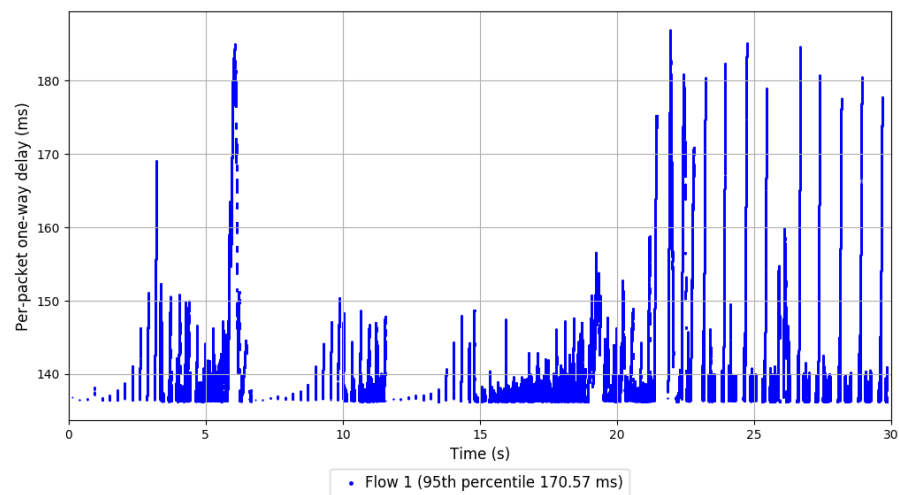
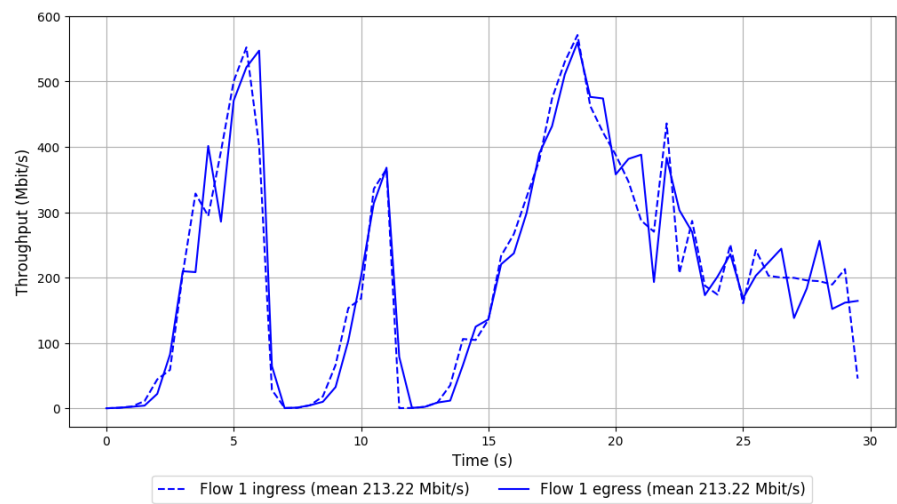
-- Flow 1:

Average throughput: 213.22 Mbit/s

95th percentile per-packet one-way delay: 170.575 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-11 19:55:50

End at: 2017-12-11 19:56:20

Below is generated by plot.py at 2017-12-11 22:12:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.89 Mbit/s

95th percentile per-packet one-way delay: 177.708 ms

Loss rate: 0.00%

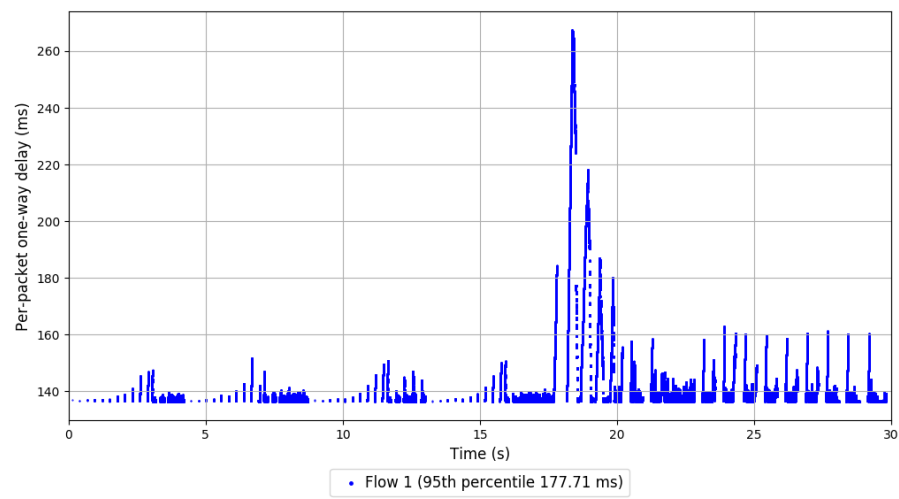
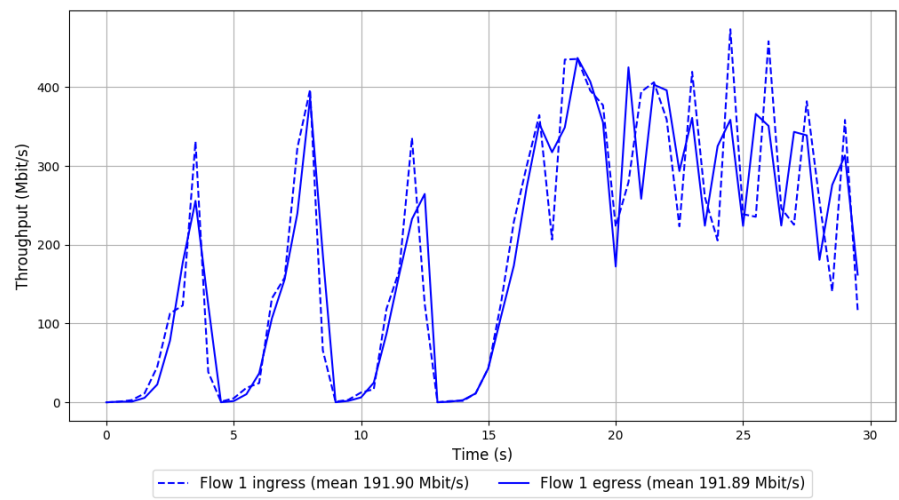
-- Flow 1:

Average throughput: 191.89 Mbit/s

95th percentile per-packet one-way delay: 177.708 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-11 20:07:29

End at: 2017-12-11 20:07:59

Below is generated by plot.py at 2017-12-11 22:12:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.42 Mbit/s

95th percentile per-packet one-way delay: 155.970 ms

Loss rate: 0.00%

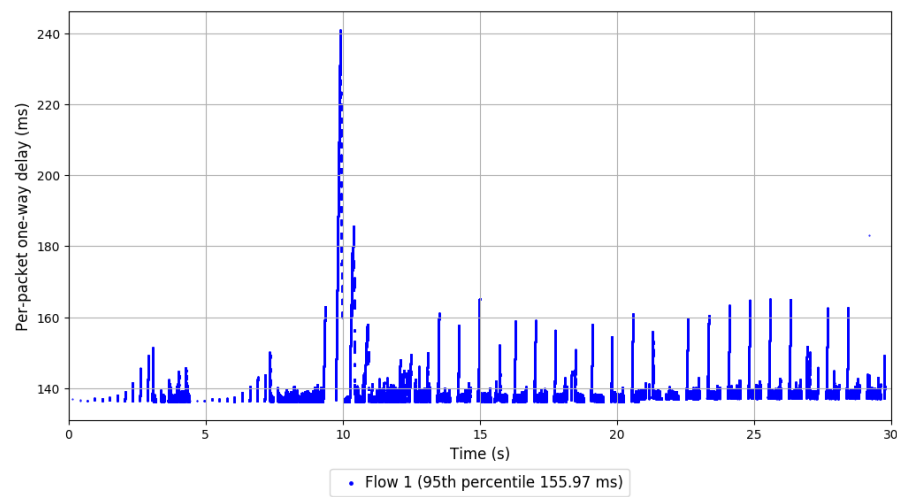
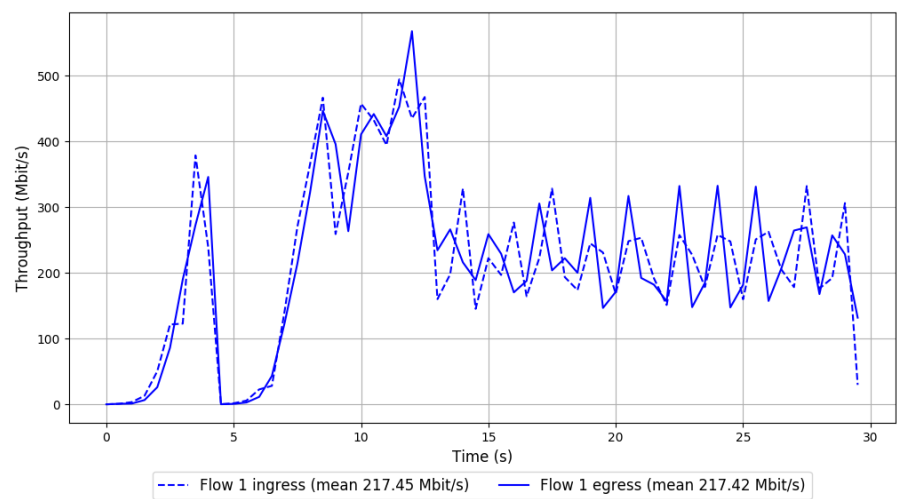
-- Flow 1:

Average throughput: 217.42 Mbit/s

95th percentile per-packet one-way delay: 155.970 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-11 20:18:51

End at: 2017-12-11 20:19:21

Below is generated by plot.py at 2017-12-11 22:12:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.83 Mbit/s

95th percentile per-packet one-way delay: 251.113 ms

Loss rate: 0.58%

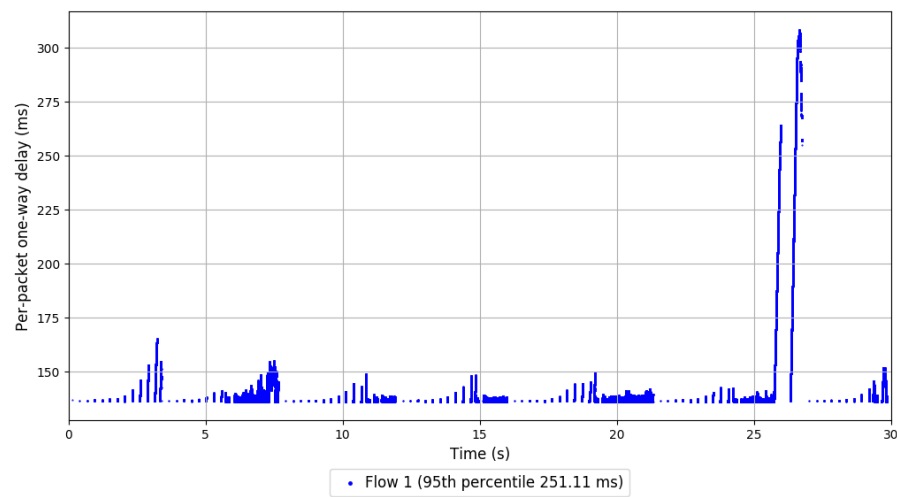
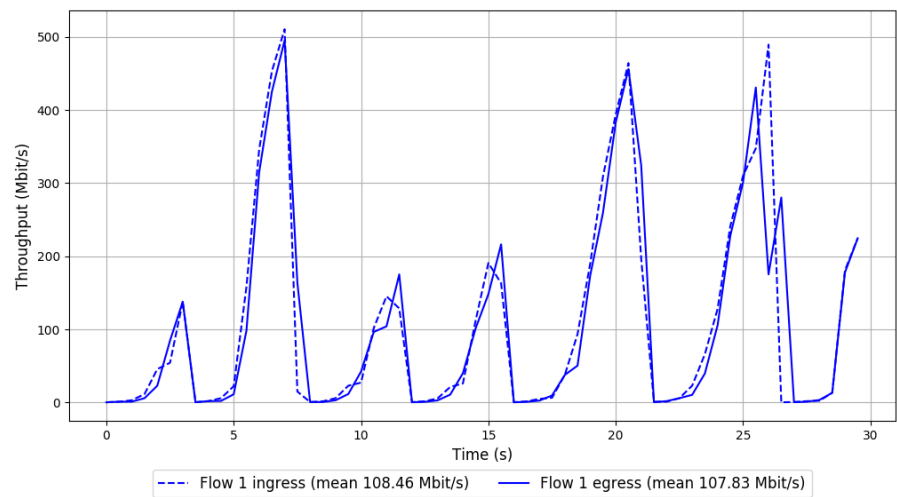
-- Flow 1:

Average throughput: 107.83 Mbit/s

95th percentile per-packet one-way delay: 251.113 ms

Loss rate: 0.58%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-11 20:30:03

End at: 2017-12-11 20:30:33

Below is generated by plot.py at 2017-12-11 22:14:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.54 Mbit/s

95th percentile per-packet one-way delay: 153.716 ms

Loss rate: 0.00%

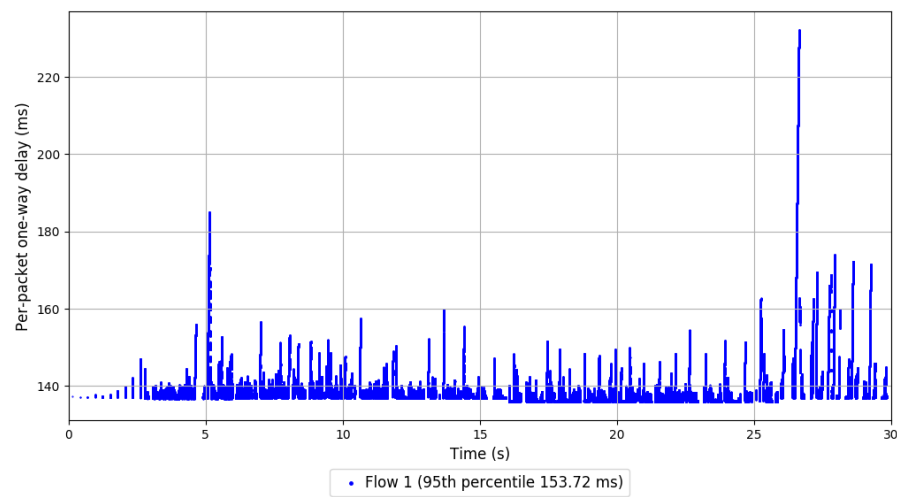
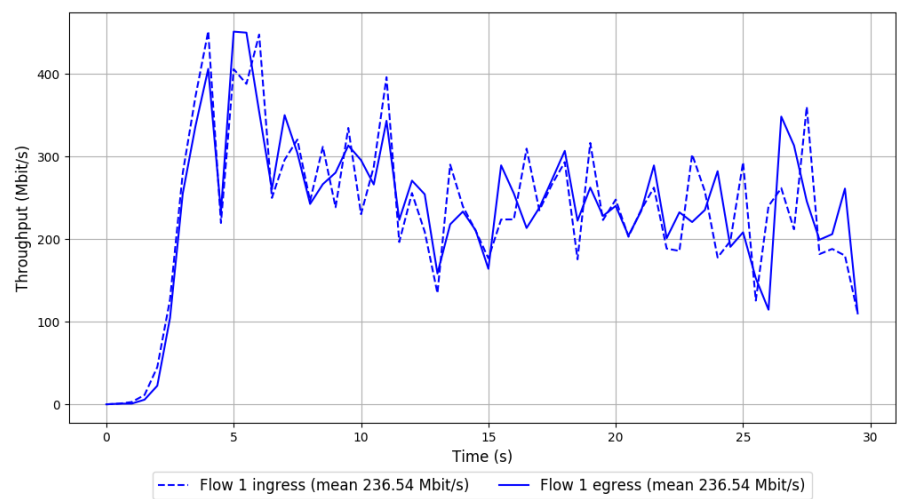
-- Flow 1:

Average throughput: 236.54 Mbit/s

95th percentile per-packet one-way delay: 153.716 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-11 20:41:19

End at: 2017-12-11 20:41:49

Below is generated by plot.py at 2017-12-11 22:14:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.95 Mbit/s

95th percentile per-packet one-way delay: 160.455 ms

Loss rate: 0.00%

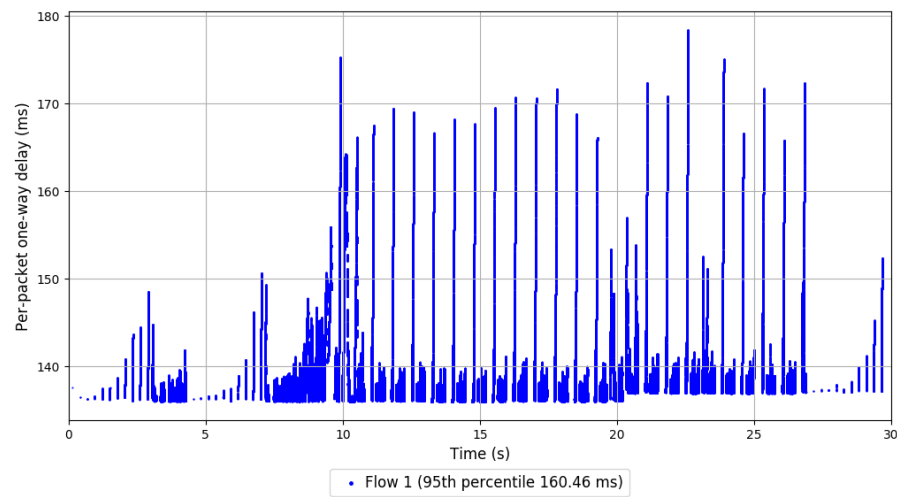
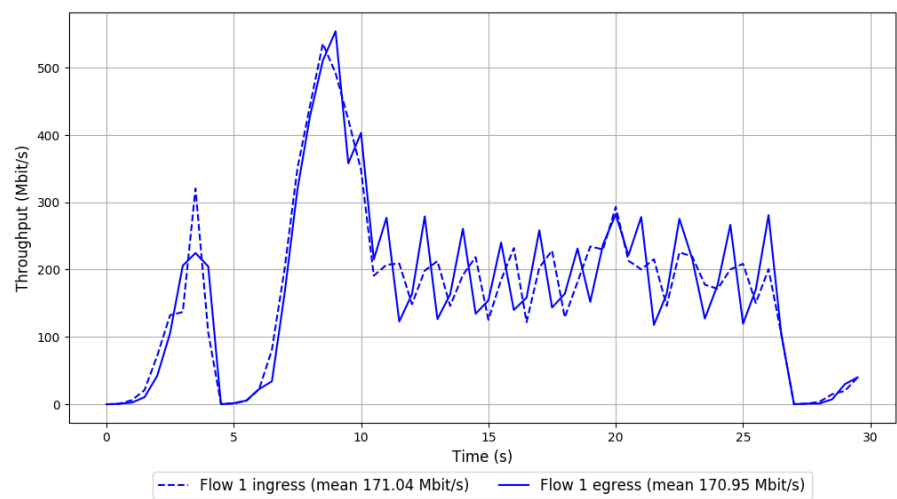
-- Flow 1:

Average throughput: 170.95 Mbit/s

95th percentile per-packet one-way delay: 160.455 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-11 20:52:47

End at: 2017-12-11 20:53:17

Below is generated by plot.py at 2017-12-11 22:14:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.84 Mbit/s

95th percentile per-packet one-way delay: 169.852 ms

Loss rate: 0.00%

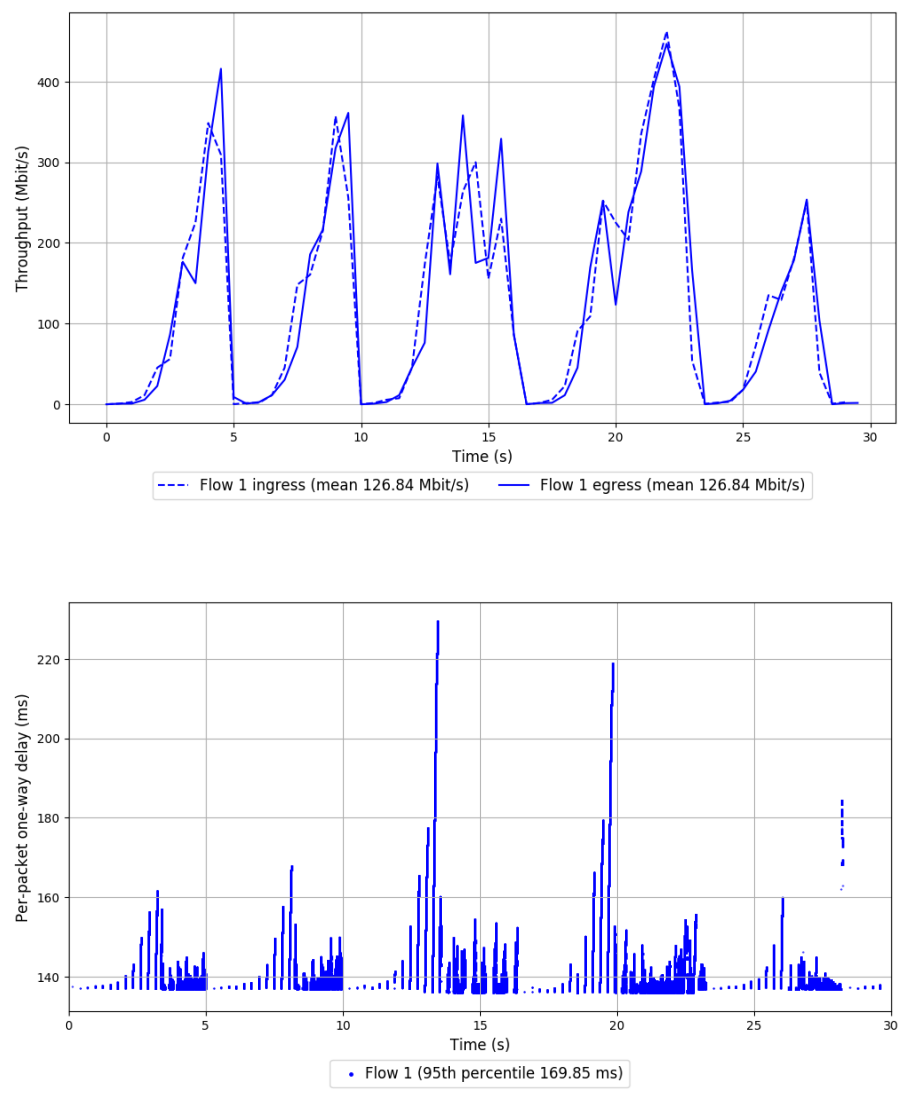
-- Flow 1:

Average throughput: 126.84 Mbit/s

95th percentile per-packet one-way delay: 169.852 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-11 21:04:12

End at: 2017-12-11 21:04:42

Below is generated by plot.py at 2017-12-11 22:14:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.12 Mbit/s

95th percentile per-packet one-way delay: 157.834 ms

Loss rate: 0.10%

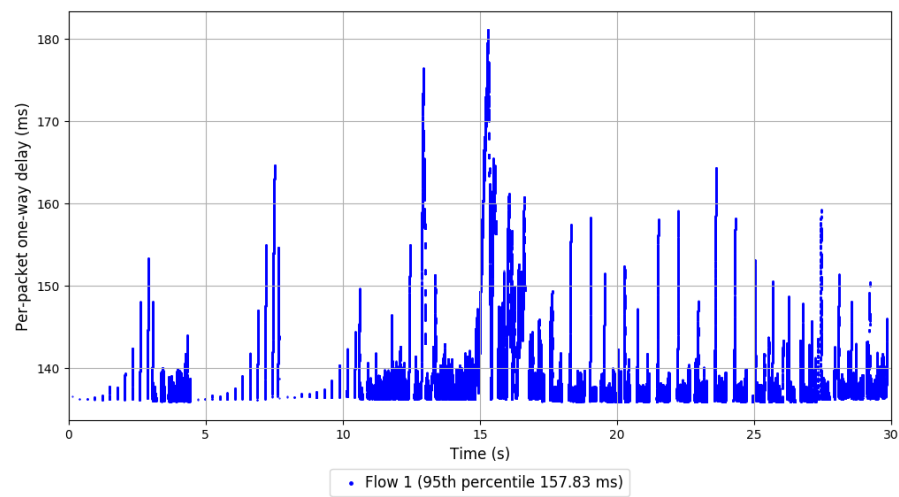
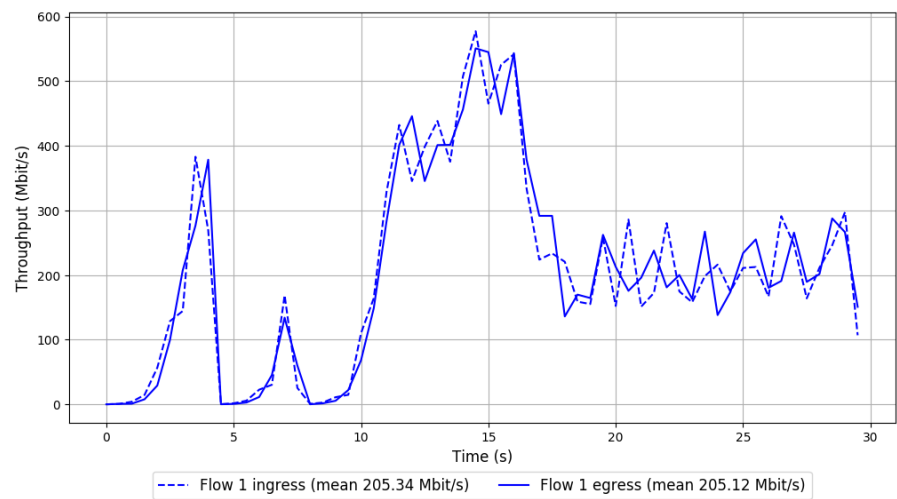
-- Flow 1:

Average throughput: 205.12 Mbit/s

95th percentile per-packet one-way delay: 157.834 ms

Loss rate: 0.10%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-11 19:22:43

End at: 2017-12-11 19:23:13

Below is generated by plot.py at 2017-12-11 22:14:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.64 Mbit/s

95th percentile per-packet one-way delay: 136.892 ms

Loss rate: 0.00%

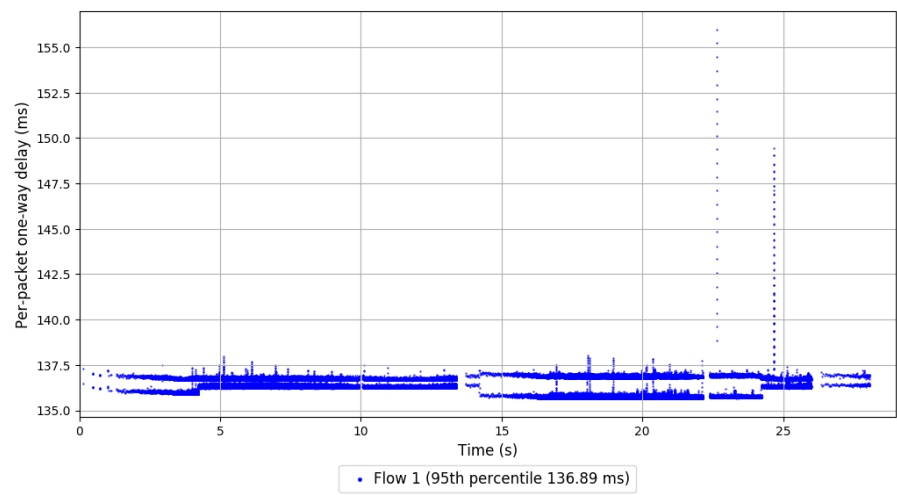
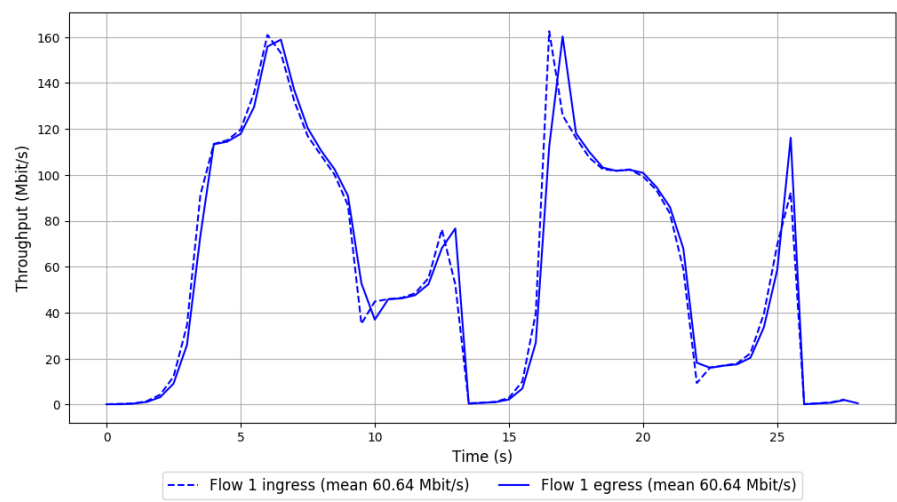
-- Flow 1:

Average throughput: 60.64 Mbit/s

95th percentile per-packet one-way delay: 136.892 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-11 19:34:13

End at: 2017-12-11 19:34:43

Below is generated by plot.py at 2017-12-11 22:14:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.09 Mbit/s

95th percentile per-packet one-way delay: 137.089 ms

Loss rate: 0.00%

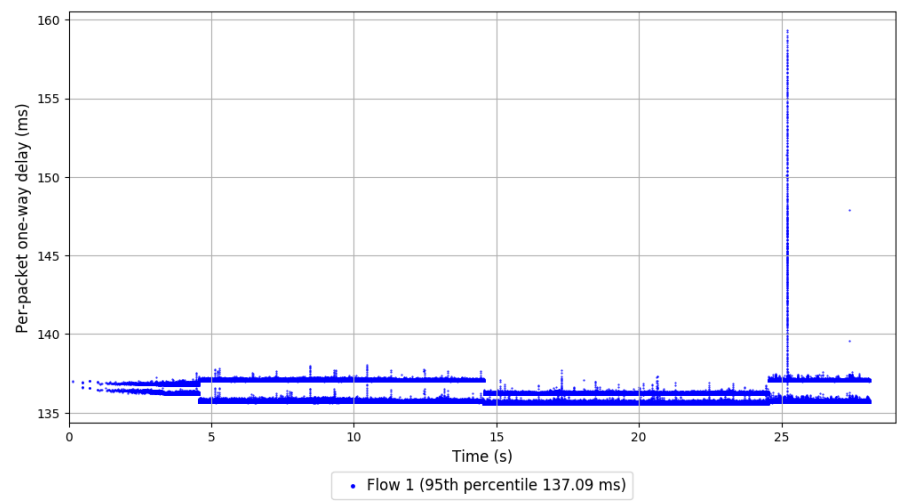
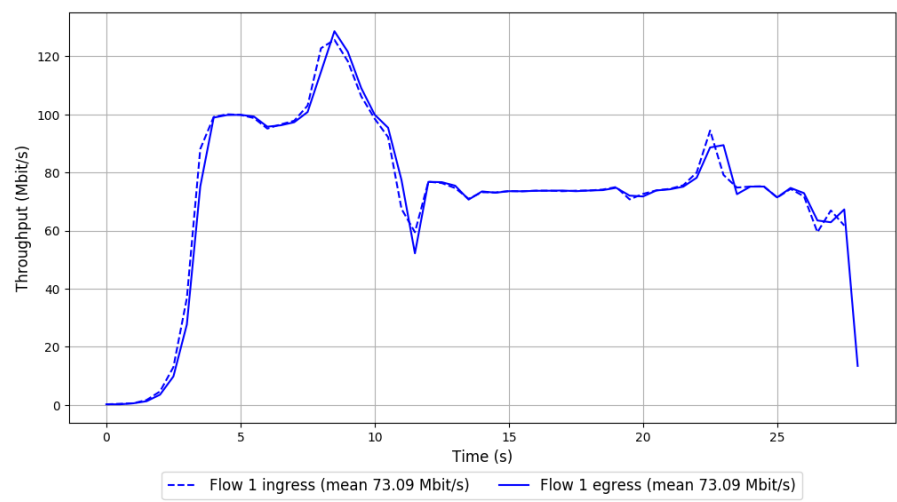
-- Flow 1:

Average throughput: 73.09 Mbit/s

95th percentile per-packet one-way delay: 137.089 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-11 19:45:51

End at: 2017-12-11 19:46:21

Below is generated by plot.py at 2017-12-11 22:14:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.39 Mbit/s

95th percentile per-packet one-way delay: 136.703 ms

Loss rate: 0.01%

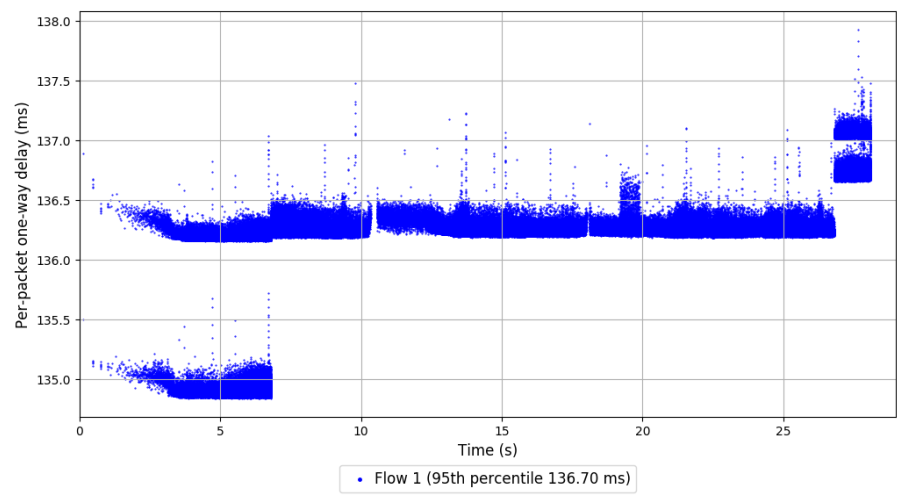
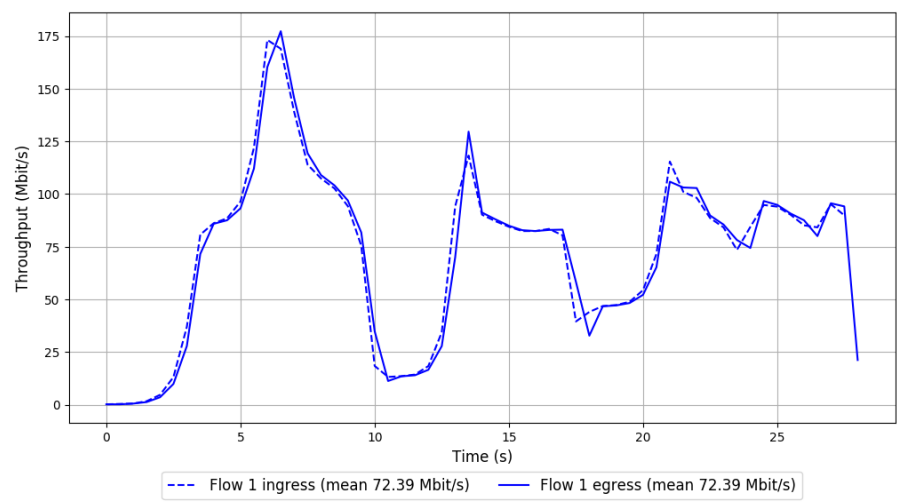
-- Flow 1:

Average throughput: 72.39 Mbit/s

95th percentile per-packet one-way delay: 136.703 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-11 19:57:31

End at: 2017-12-11 19:58:01

Below is generated by plot.py at 2017-12-11 22:14:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.97 Mbit/s

95th percentile per-packet one-way delay: 137.005 ms

Loss rate: 0.00%

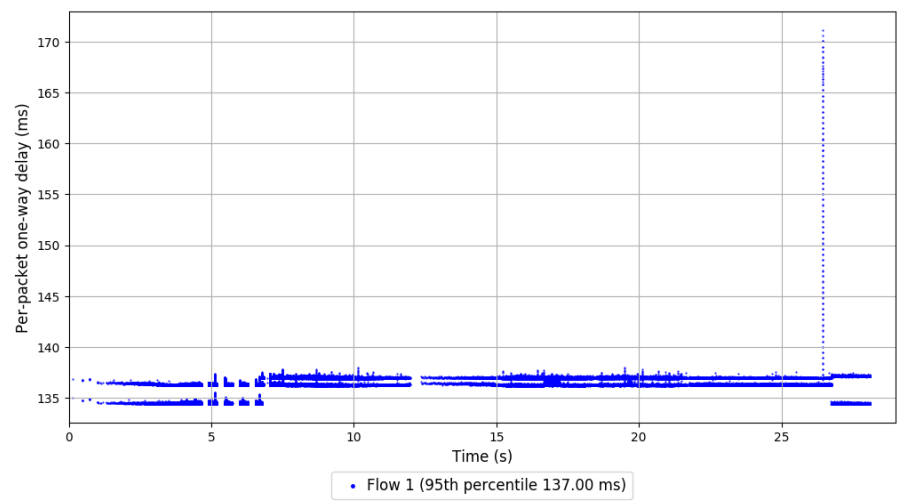
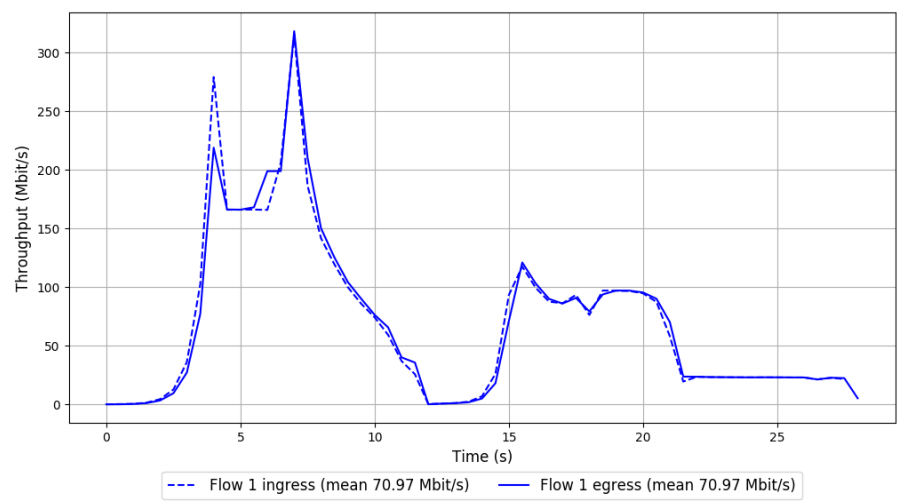
-- Flow 1:

Average throughput: 70.97 Mbit/s

95th percentile per-packet one-way delay: 137.005 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-11 20:09:12

End at: 2017-12-11 20:09:42

Below is generated by plot.py at 2017-12-11 22:15:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.34 Mbit/s

95th percentile per-packet one-way delay: 137.040 ms

Loss rate: 0.00%

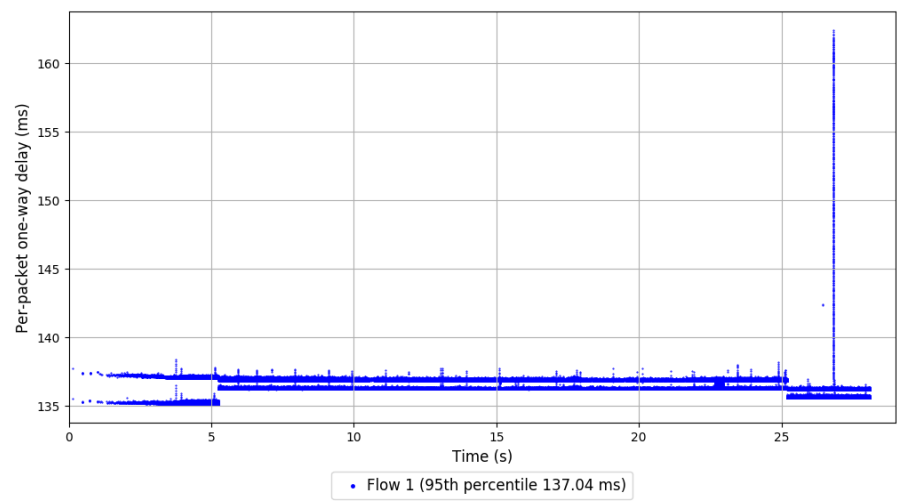
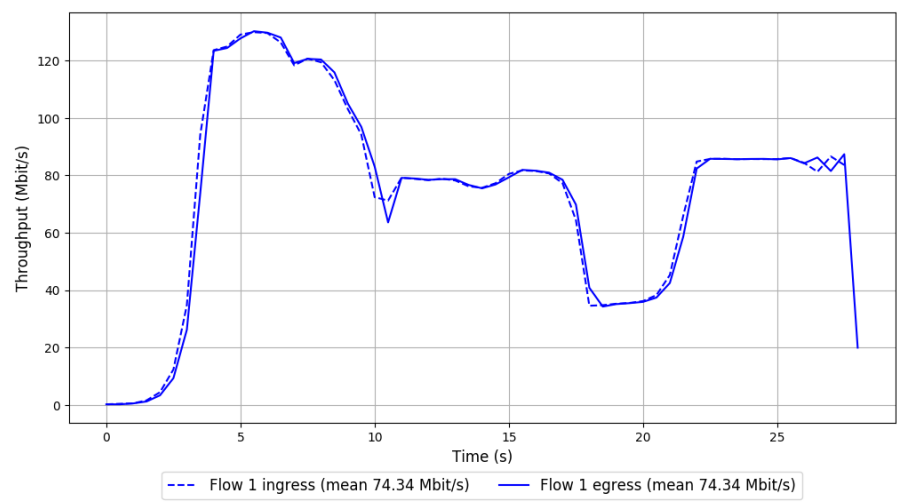
-- Flow 1:

Average throughput: 74.34 Mbit/s

95th percentile per-packet one-way delay: 137.040 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-11 20:20:26

End at: 2017-12-11 20:20:56

Below is generated by plot.py at 2017-12-11 22:15:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 136.475 ms

Loss rate: 0.00%

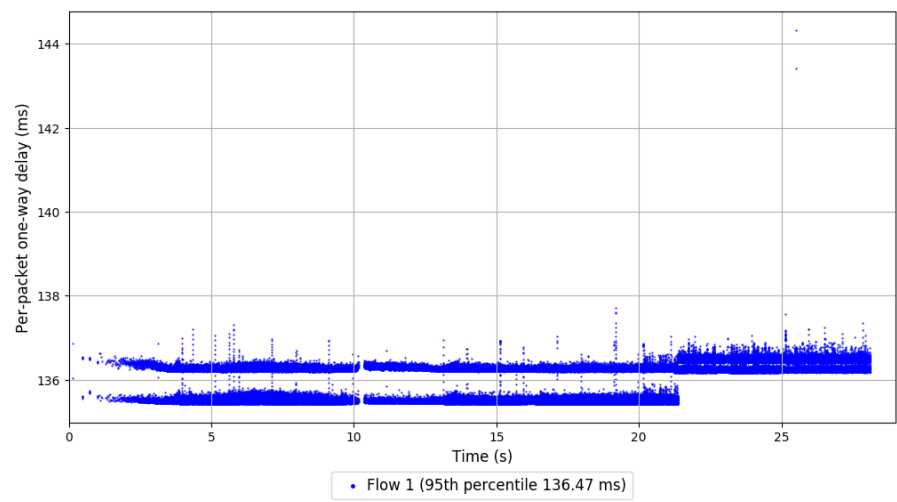
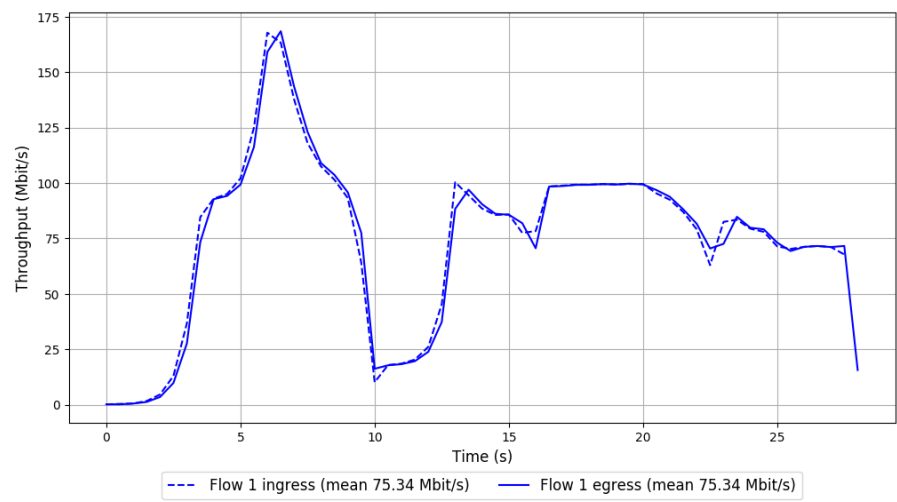
-- Flow 1:

Average throughput: 75.34 Mbit/s

95th percentile per-packet one-way delay: 136.475 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

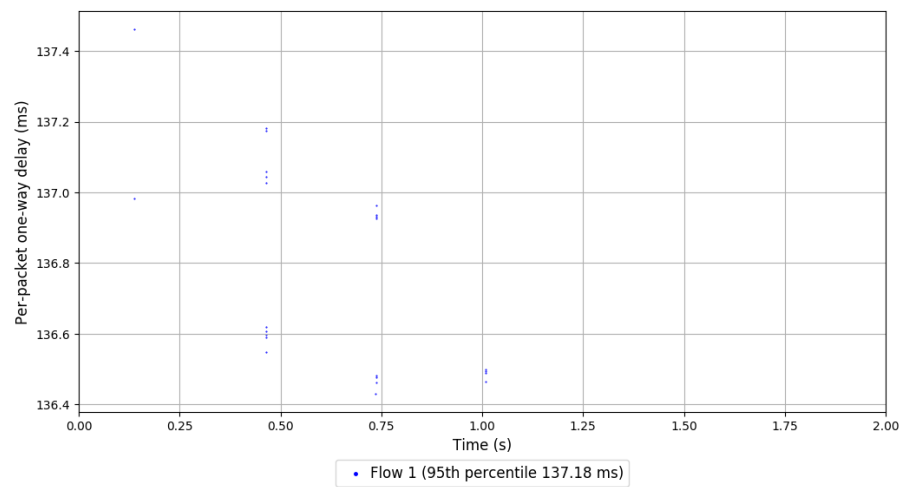
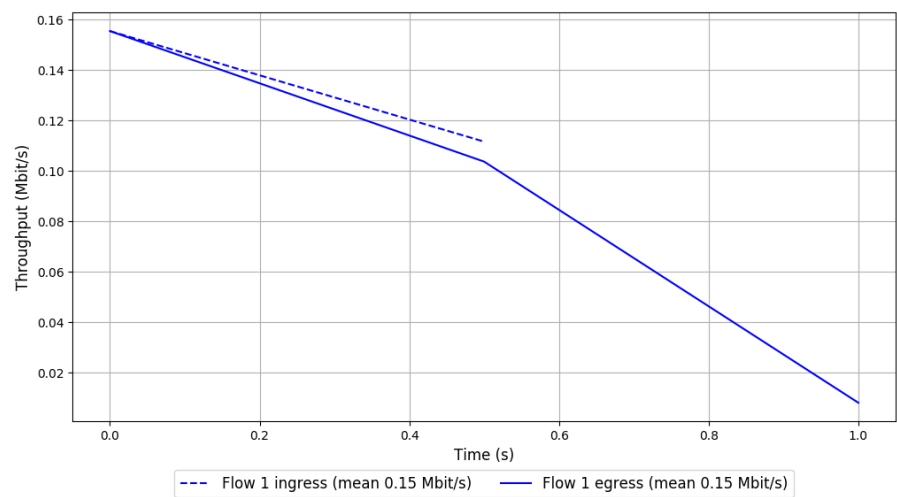


Run 7: Statistics of Copa

Start at: 2017-12-11 20:31:50

End at: 2017-12-11 20:32:20

Run 7: Report of Copa — Data Link

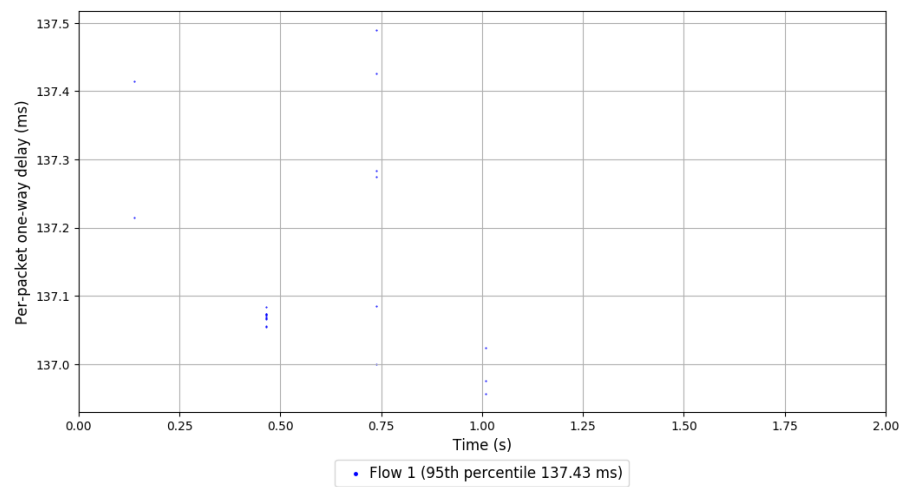
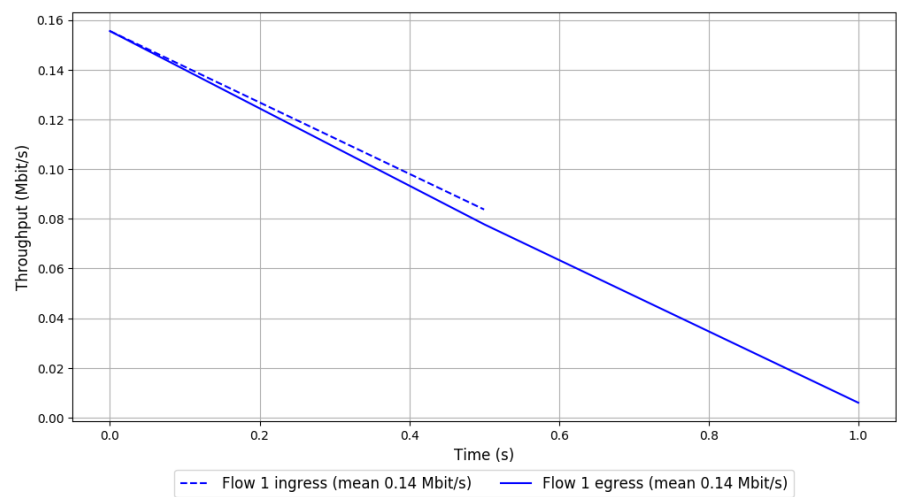


Run 8: Statistics of Copa

Start at: 2017-12-11 20:42:59

End at: 2017-12-11 20:43:29

Run 8: Report of Copa — Data Link

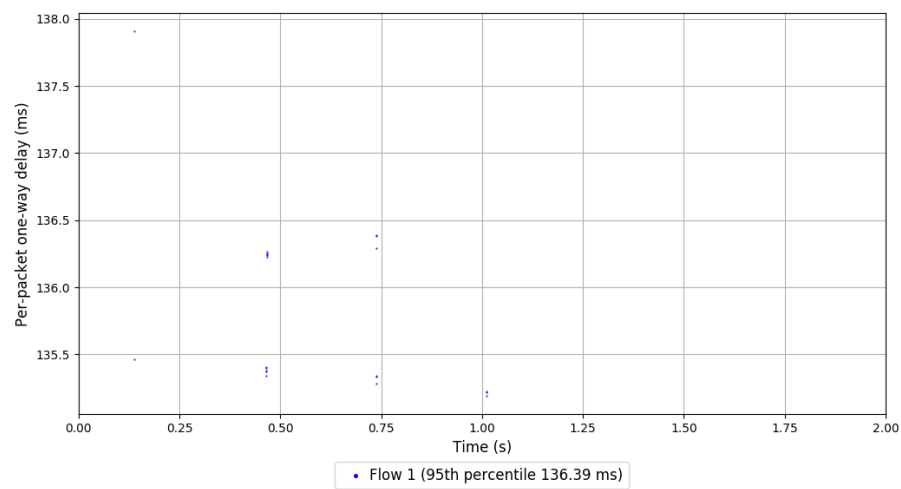
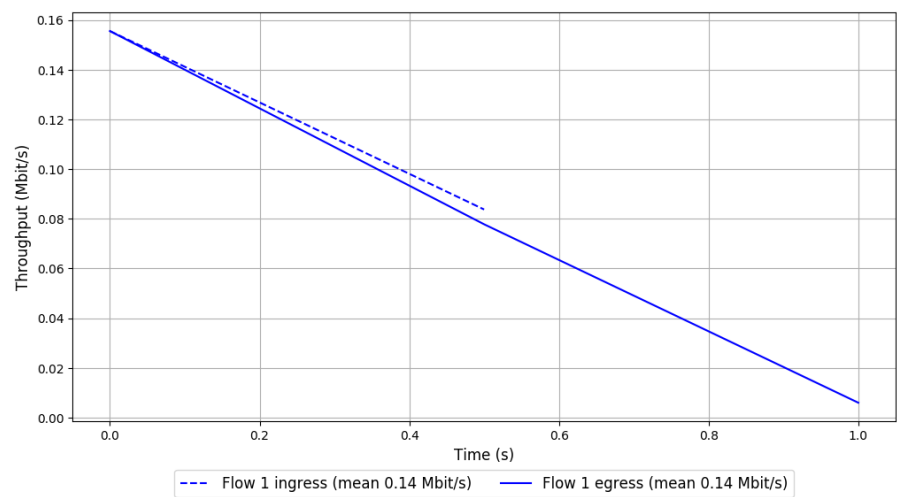


Run 9: Statistics of Copa

Start at: 2017-12-11 20:54:24

End at: 2017-12-11 20:54:54

Run 9: Report of Copa — Data Link

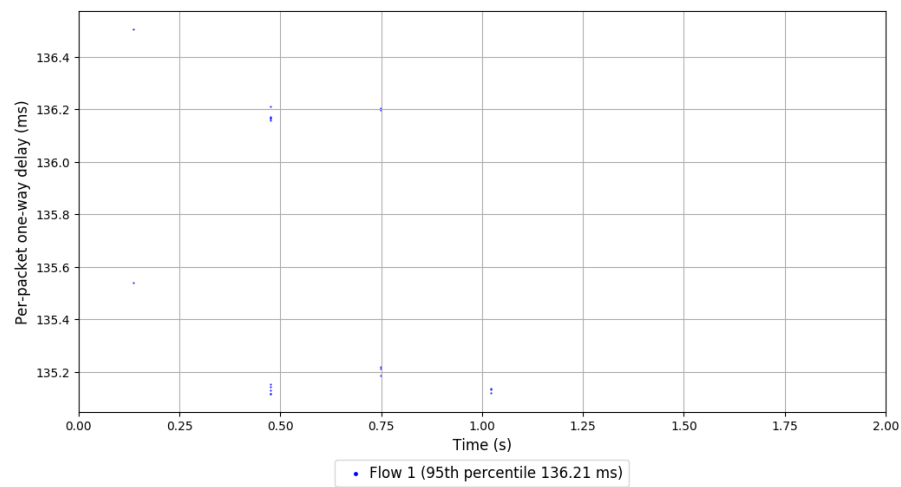
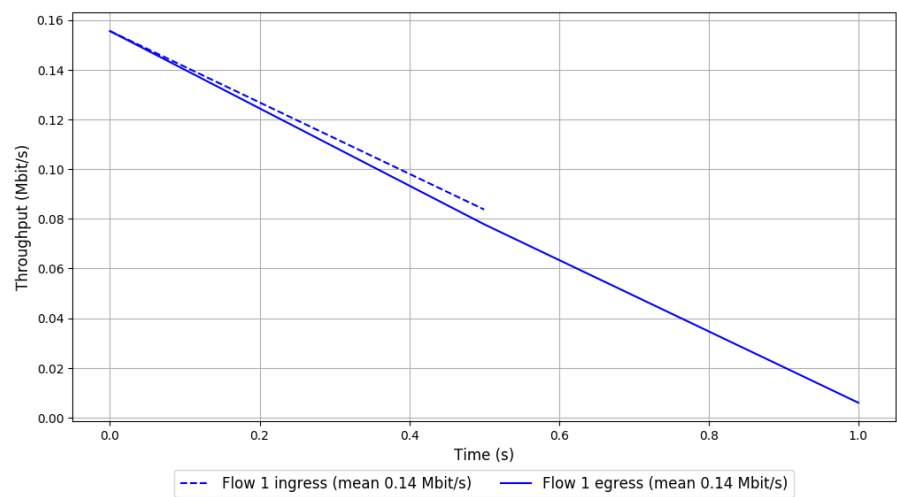


Run 10: Statistics of Copa

Start at: 2017-12-11 21:05:55

End at: 2017-12-11 21:06:25

Run 10: Report of Copa — Data Link

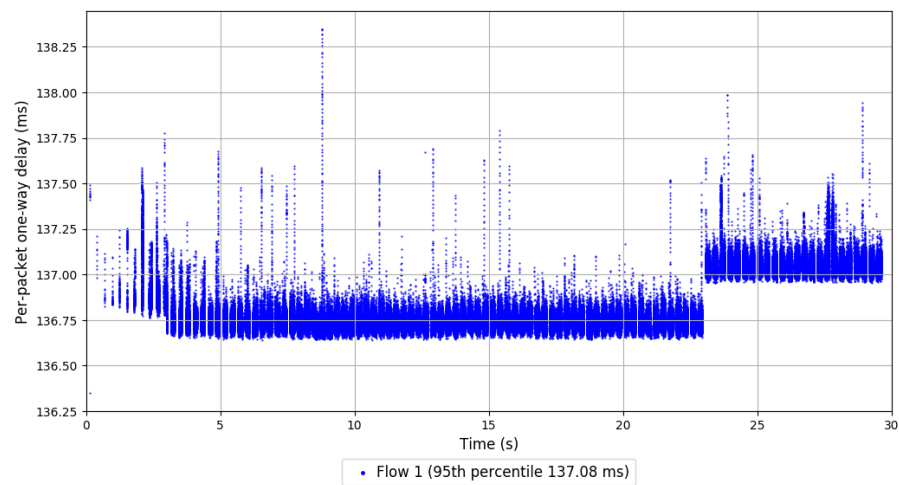
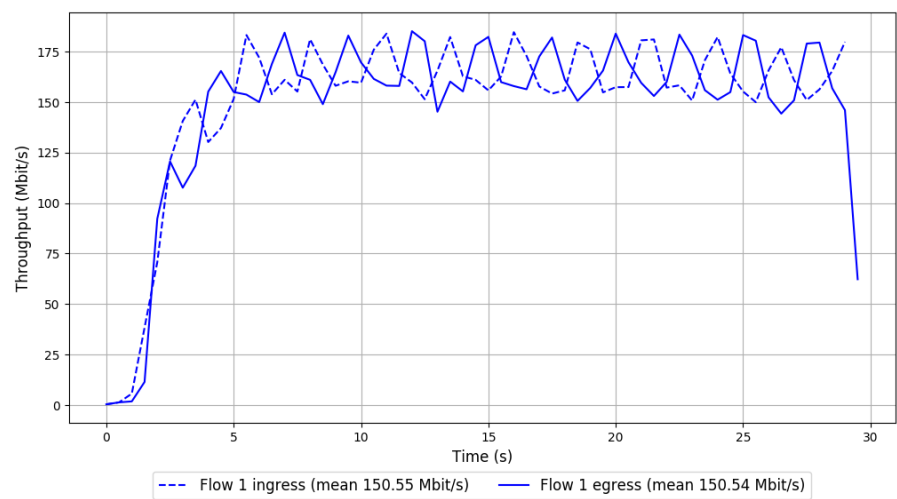


```
Run 1: Statistics of Indigo

Start at: 2017-12-11 19:14:16
End at: 2017-12-11 19:14:46

# Below is generated by plot.py at 2017-12-11 22:16:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 150.54 Mbit/s
95th percentile per-packet one-way delay: 137.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 150.54 Mbit/s
95th percentile per-packet one-way delay: 137.077 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-11 19:25:49

End at: 2017-12-11 19:26:19

Below is generated by plot.py at 2017-12-11 22:16:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.69 Mbit/s

95th percentile per-packet one-way delay: 137.142 ms

Loss rate: 0.00%

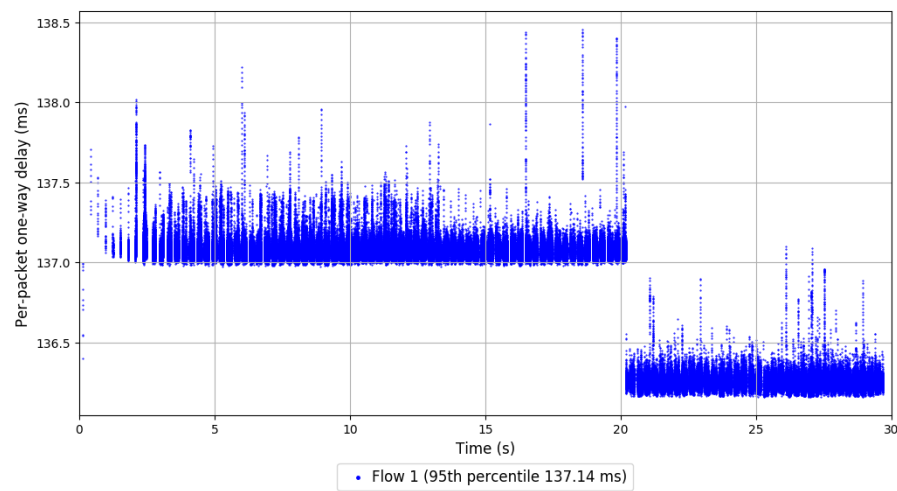
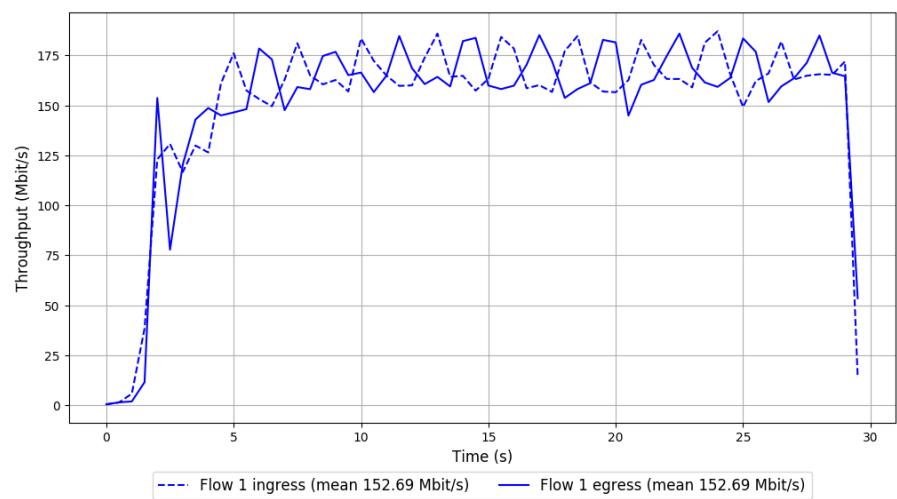
-- Flow 1:

Average throughput: 152.69 Mbit/s

95th percentile per-packet one-way delay: 137.142 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-11 19:37:19

End at: 2017-12-11 19:37:49

Below is generated by plot.py at 2017-12-11 22:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.76 Mbit/s

95th percentile per-packet one-way delay: 136.326 ms

Loss rate: 0.00%

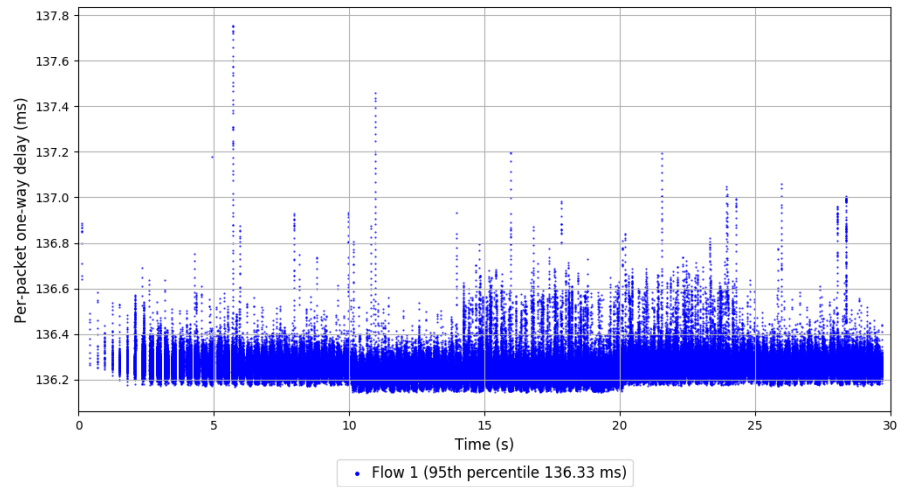
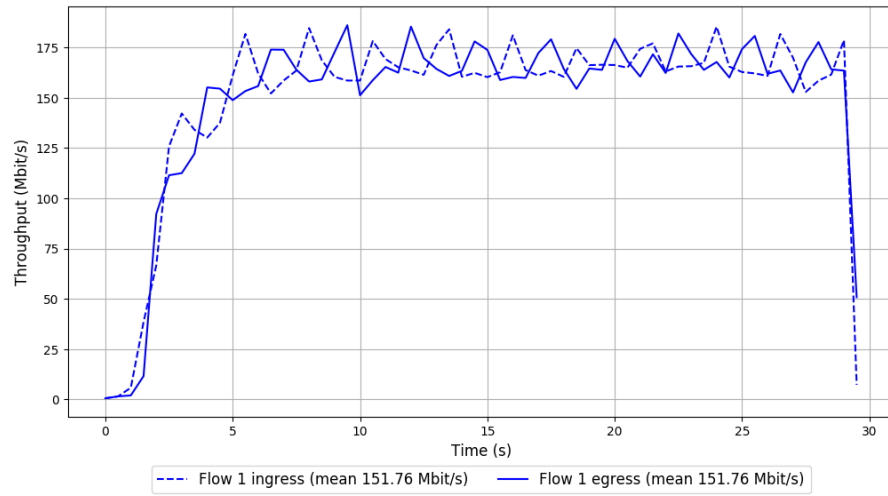
-- Flow 1:

Average throughput: 151.76 Mbit/s

95th percentile per-packet one-way delay: 136.326 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-11 19:48:57

End at: 2017-12-11 19:49:27

Below is generated by plot.py at 2017-12-11 22:16:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.57 Mbit/s

95th percentile per-packet one-way delay: 137.127 ms

Loss rate: 0.00%

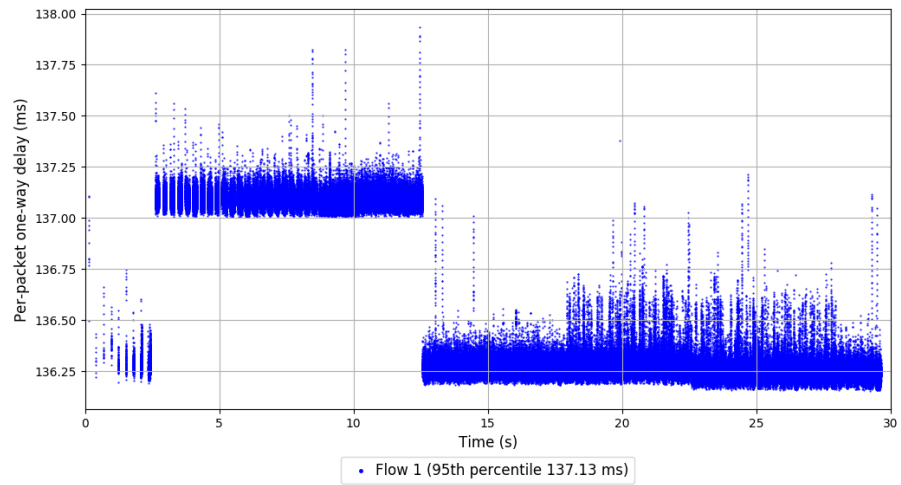
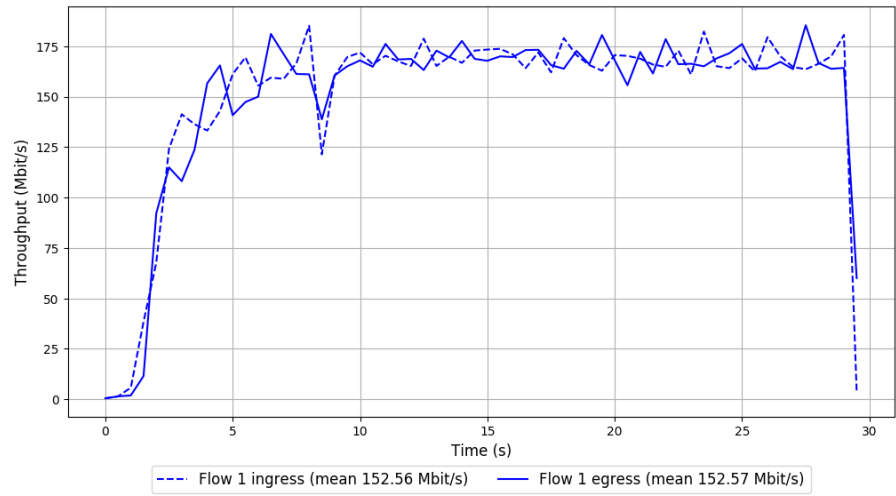
-- Flow 1:

Average throughput: 152.57 Mbit/s

95th percentile per-packet one-way delay: 137.127 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-11 20:00:37

End at: 2017-12-11 20:01:07

Below is generated by plot.py at 2017-12-11 22:16:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.41 Mbit/s

95th percentile per-packet one-way delay: 137.170 ms

Loss rate: 0.00%

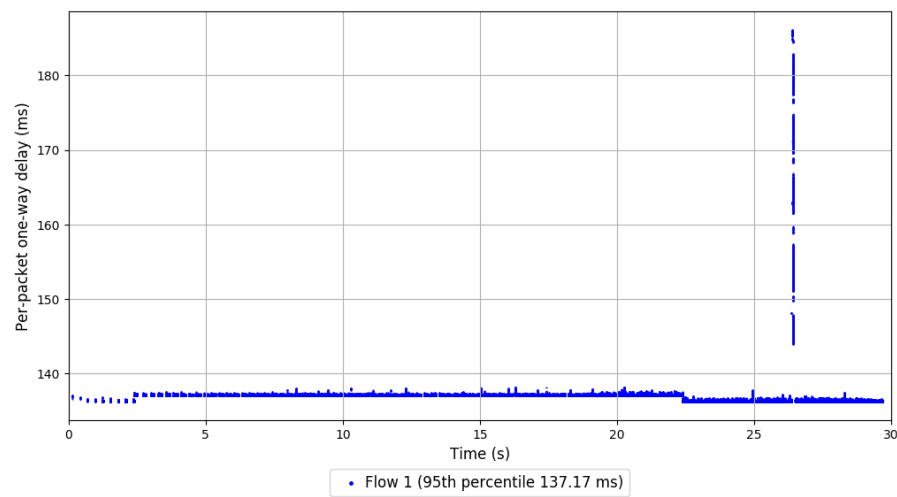
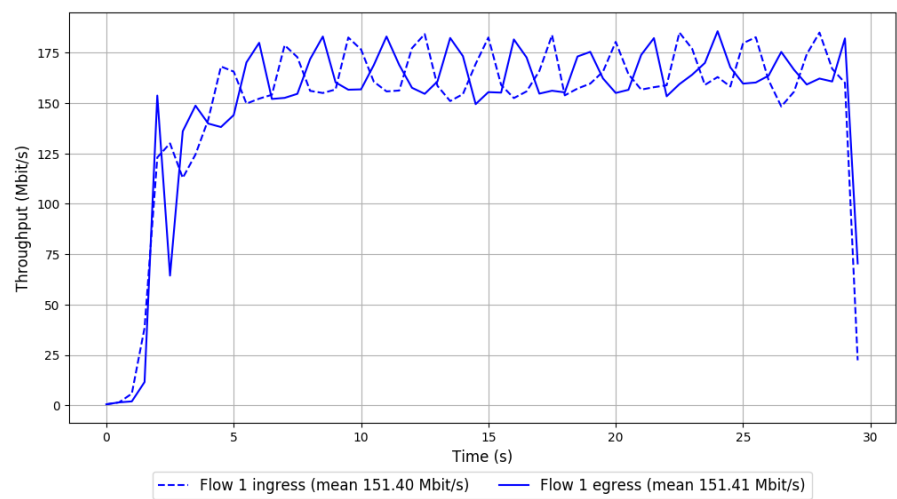
-- Flow 1:

Average throughput: 151.41 Mbit/s

95th percentile per-packet one-way delay: 137.170 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-11 20:12:18

End at: 2017-12-11 20:12:48

Below is generated by plot.py at 2017-12-11 22:17:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.01 Mbit/s

95th percentile per-packet one-way delay: 136.360 ms

Loss rate: 0.00%

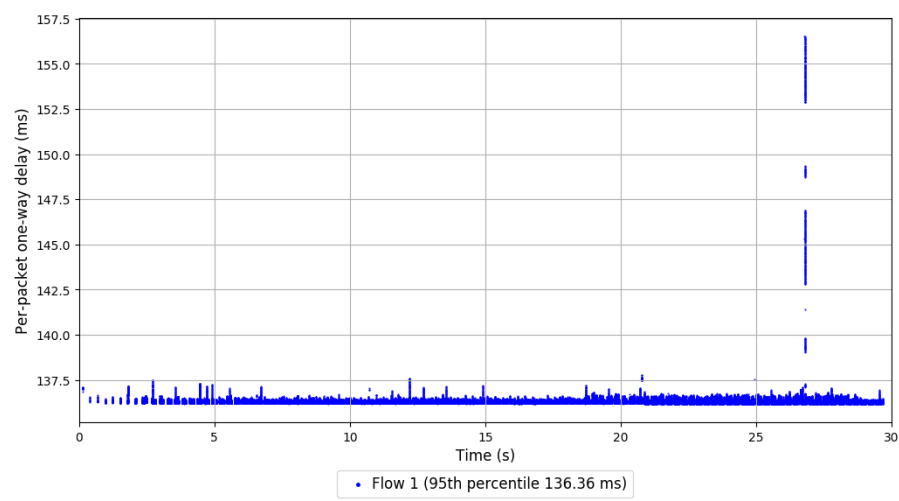
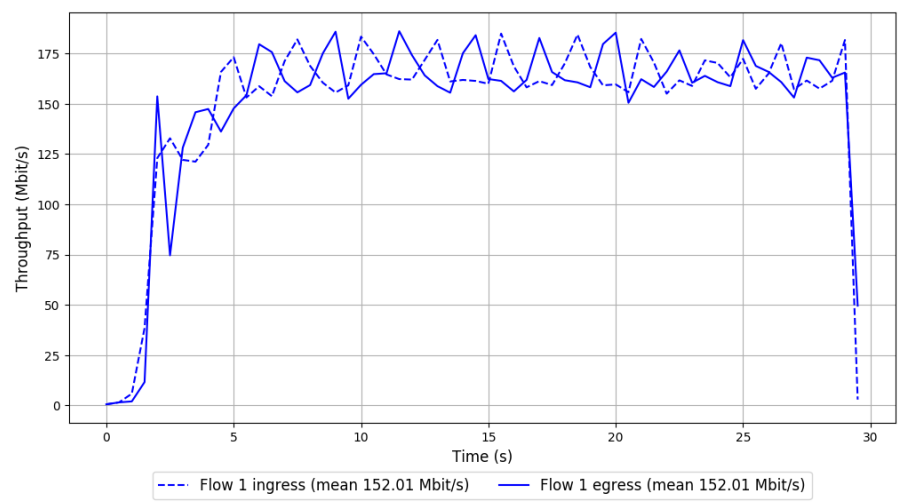
-- Flow 1:

Average throughput: 152.01 Mbit/s

95th percentile per-packet one-way delay: 136.360 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-11 20:23:33

End at: 2017-12-11 20:24:03

Below is generated by plot.py at 2017-12-11 22:17:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.69 Mbit/s

95th percentile per-packet one-way delay: 136.347 ms

Loss rate: 0.00%

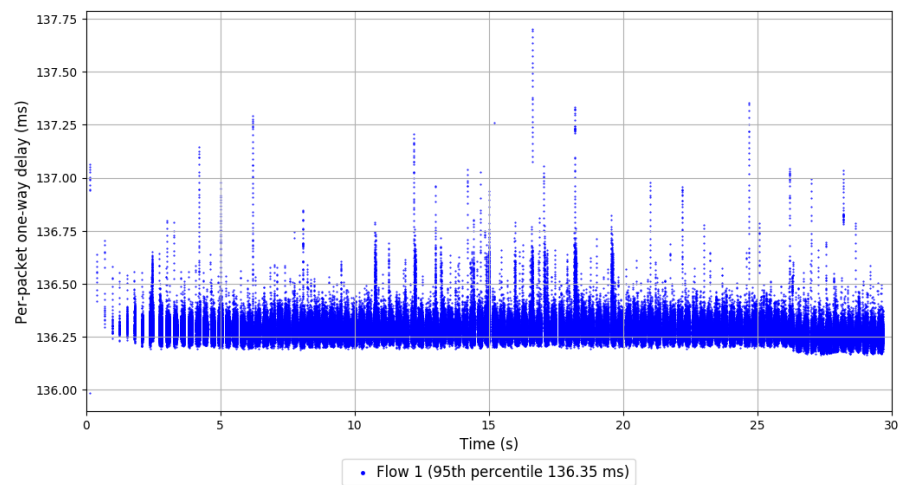
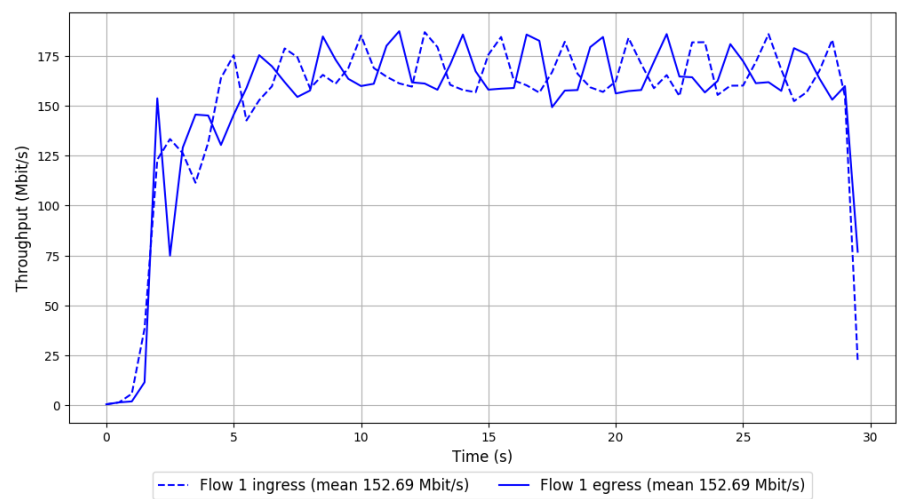
-- Flow 1:

Average throughput: 152.69 Mbit/s

95th percentile per-packet one-way delay: 136.347 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-11 20:34:48

End at: 2017-12-11 20:35:18

Below is generated by plot.py at 2017-12-11 22:18:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.37 Mbit/s

95th percentile per-packet one-way delay: 136.937 ms

Loss rate: 0.00%

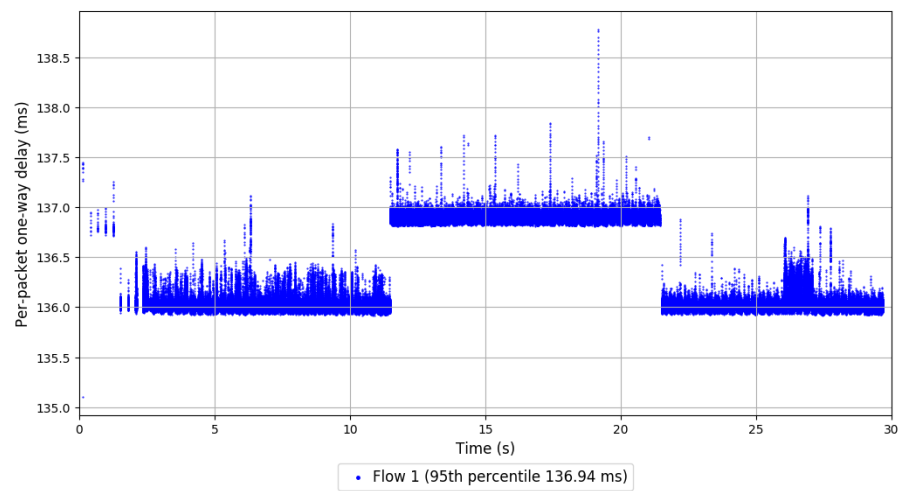
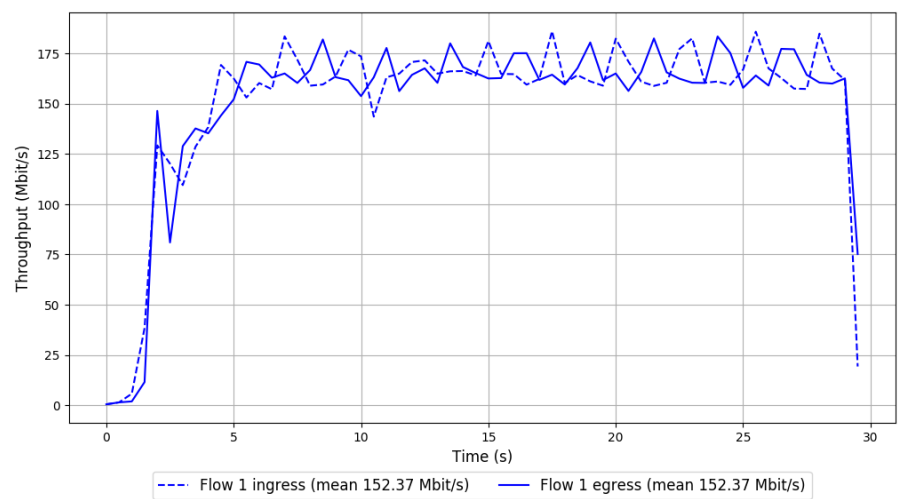
-- Flow 1:

Average throughput: 152.37 Mbit/s

95th percentile per-packet one-way delay: 136.937 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-11 20:45:57

End at: 2017-12-11 20:46:27

Below is generated by plot.py at 2017-12-11 22:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.46 Mbit/s

95th percentile per-packet one-way delay: 136.956 ms

Loss rate: 0.00%

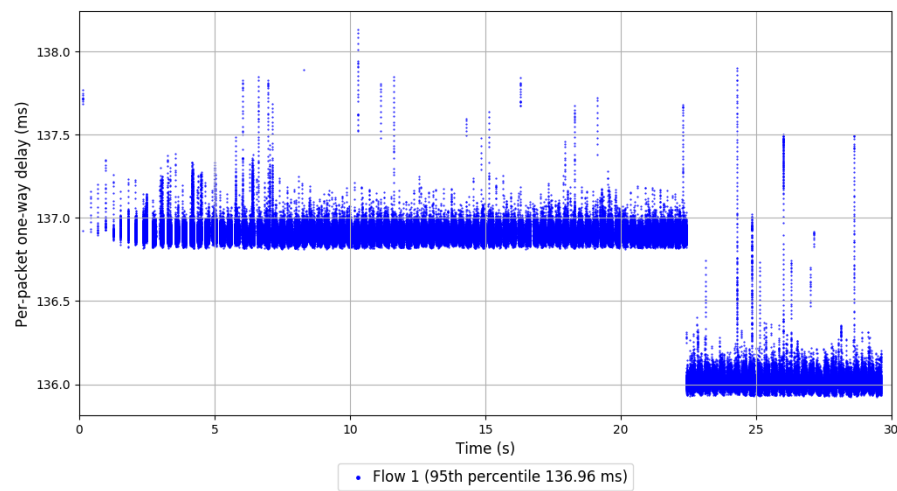
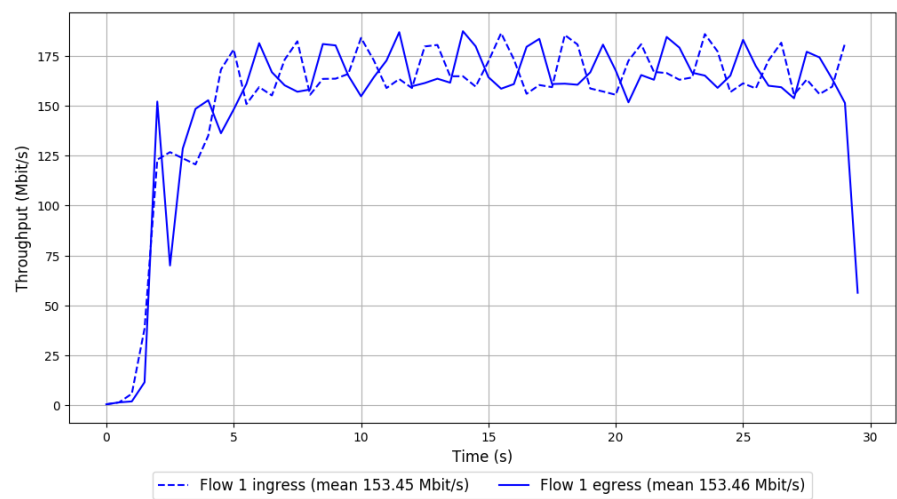
-- Flow 1:

Average throughput: 153.46 Mbit/s

95th percentile per-packet one-way delay: 136.956 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-11 20:57:22

End at: 2017-12-11 20:57:52

Below is generated by plot.py at 2017-12-11 22:19:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.01 Mbit/s

95th percentile per-packet one-way delay: 136.373 ms

Loss rate: 0.00%

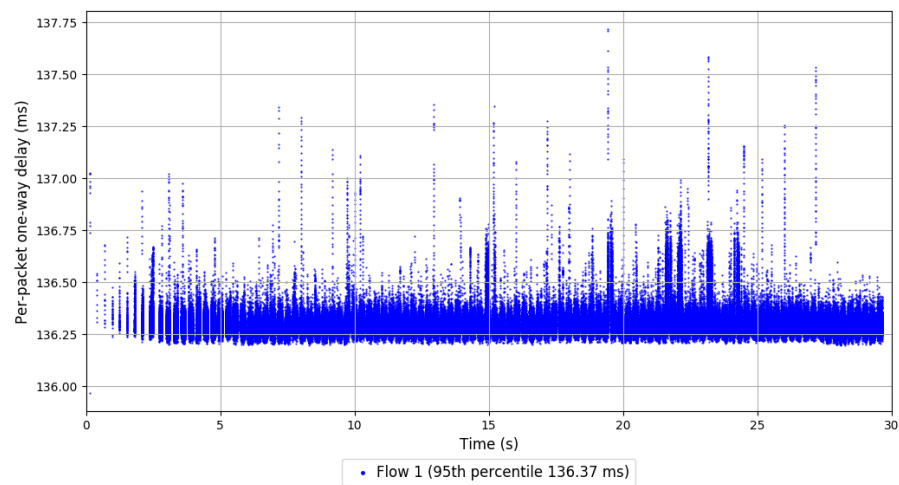
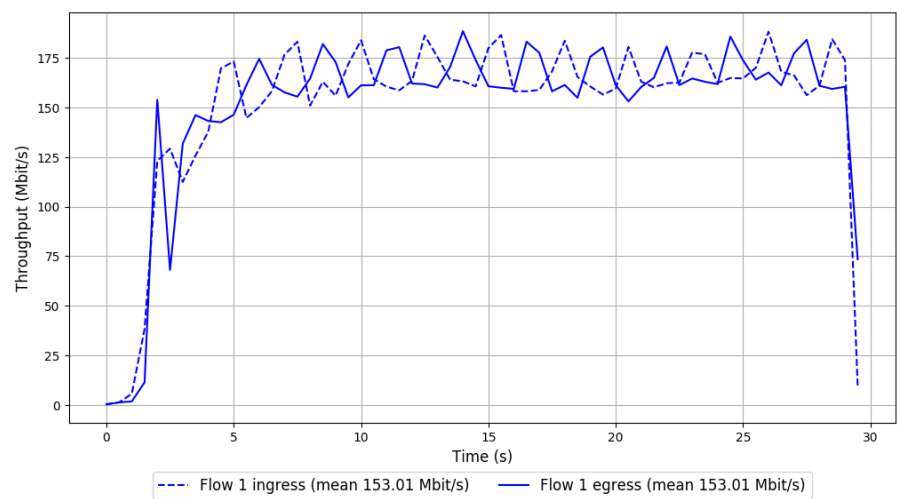
-- Flow 1:

Average throughput: 153.01 Mbit/s

95th percentile per-packet one-way delay: 136.373 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

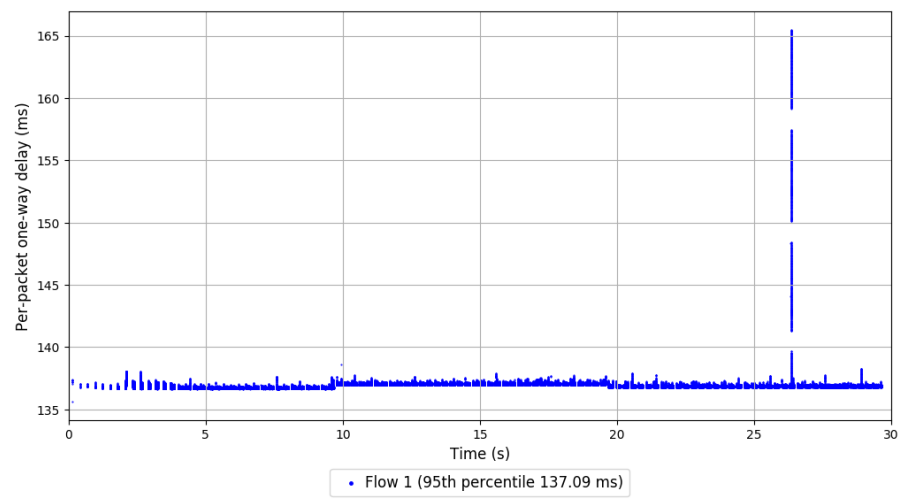
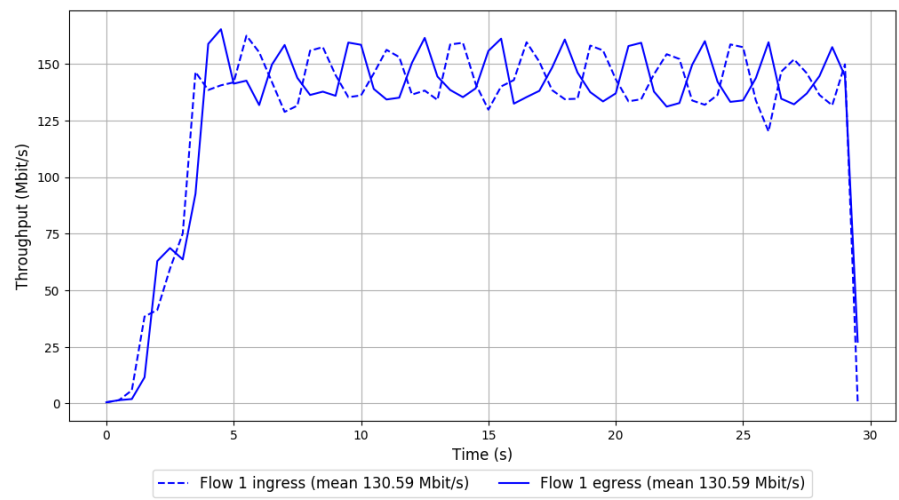


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 19:16:59
End at: 2017-12-11 19:17:29

# Below is generated by plot.py at 2017-12-11 22:19:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.59 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.59 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

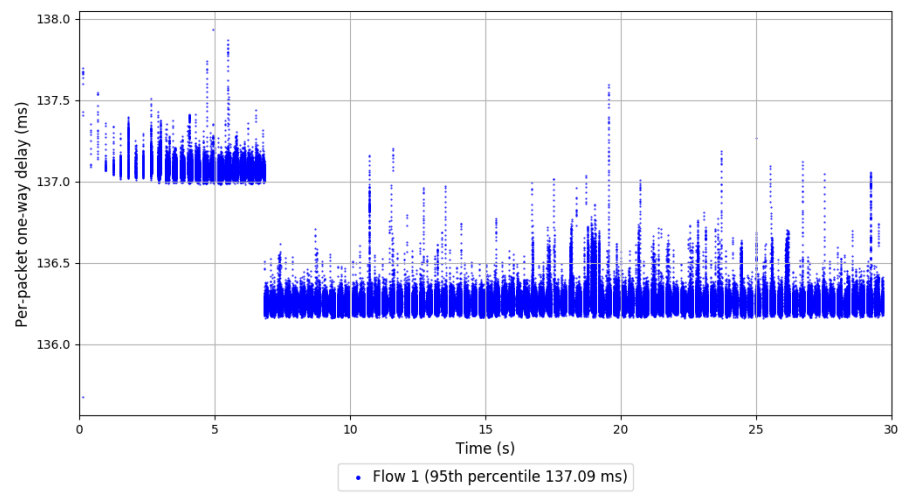
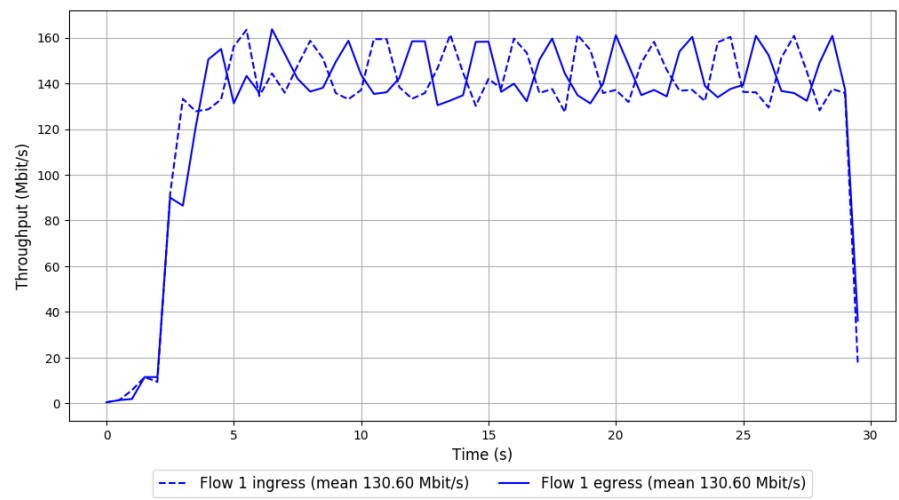


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 19:28:32
End at: 2017-12-11 19:29:02

# Below is generated by plot.py at 2017-12-11 22:19:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.60 Mbit/s
95th percentile per-packet one-way delay: 137.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.60 Mbit/s
95th percentile per-packet one-way delay: 137.085 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link

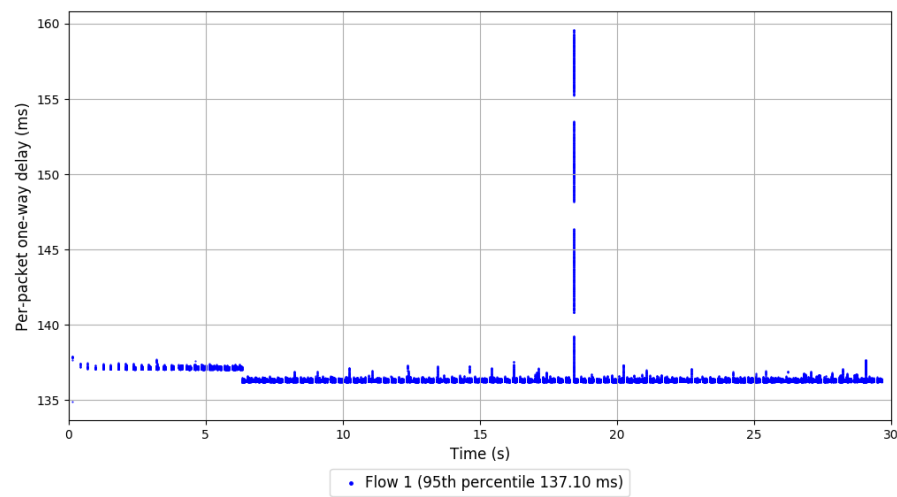
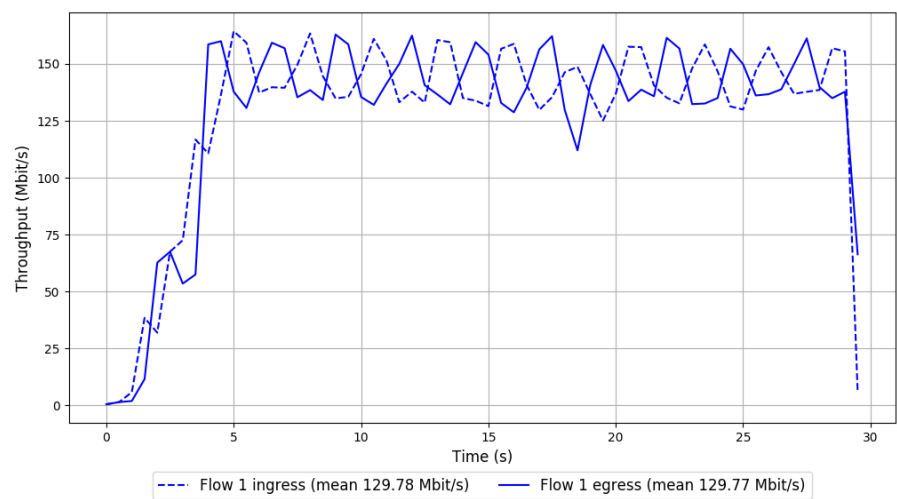


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 19:40:03
End at: 2017-12-11 19:40:33

# Below is generated by plot.py at 2017-12-11 22:19:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.77 Mbit/s
95th percentile per-packet one-way delay: 137.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 129.77 Mbit/s
95th percentile per-packet one-way delay: 137.103 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 19:51:40

End at: 2017-12-11 19:52:10

Below is generated by plot.py at 2017-12-11 22:19:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.10 Mbit/s

95th percentile per-packet one-way delay: 137.136 ms

Loss rate: 0.00%

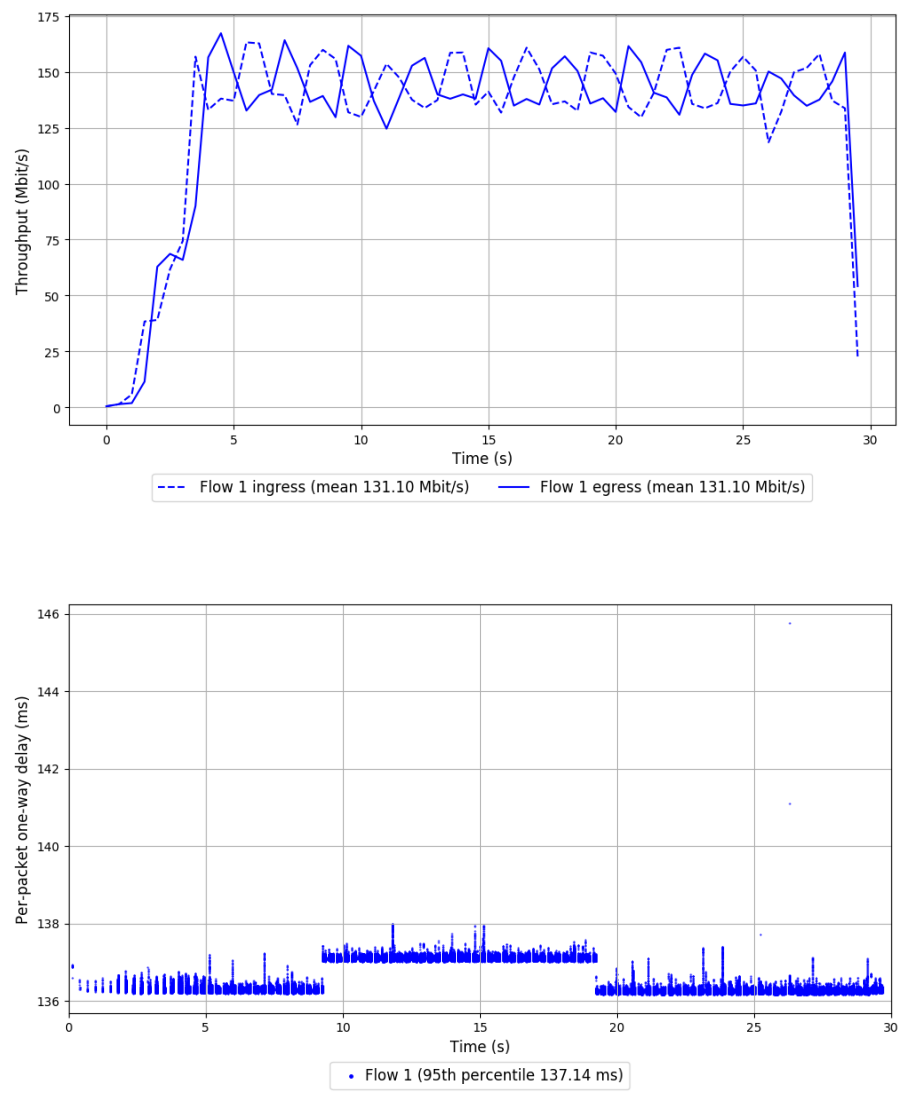
-- Flow 1:

Average throughput: 131.10 Mbit/s

95th percentile per-packet one-way delay: 137.136 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 20:03:20

End at: 2017-12-11 20:03:50

Below is generated by plot.py at 2017-12-11 22:19:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.40 Mbit/s

95th percentile per-packet one-way delay: 137.146 ms

Loss rate: 0.00%

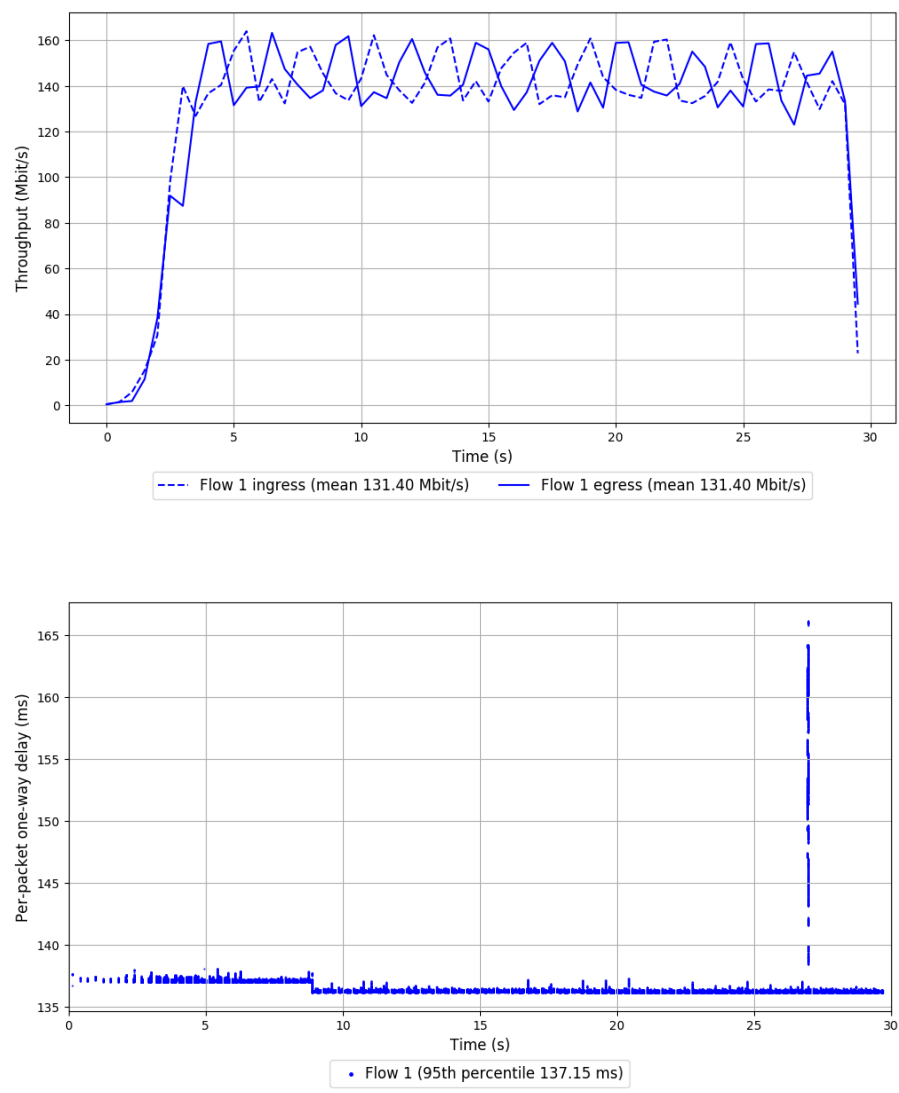
-- Flow 1:

Average throughput: 131.40 Mbit/s

95th percentile per-packet one-way delay: 137.146 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 20:15:02

End at: 2017-12-11 20:15:32

Below is generated by plot.py at 2017-12-11 22:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.82 Mbit/s

95th percentile per-packet one-way delay: 136.346 ms

Loss rate: 0.00%

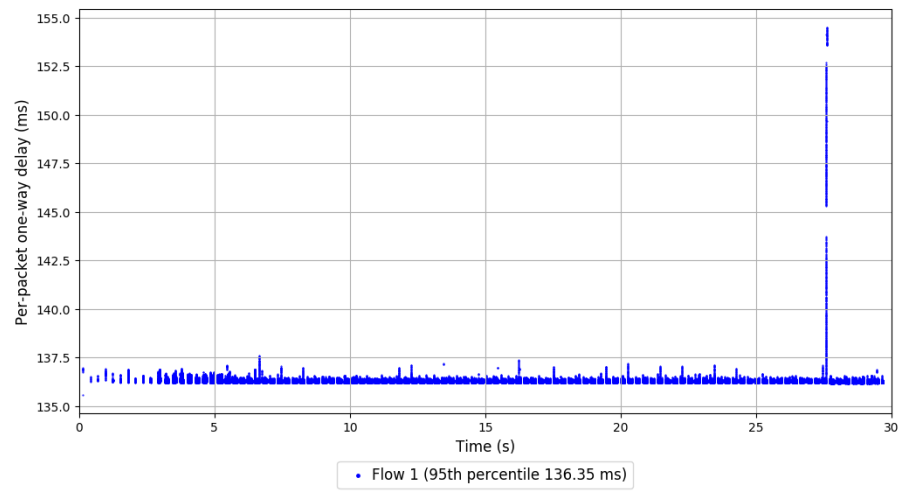
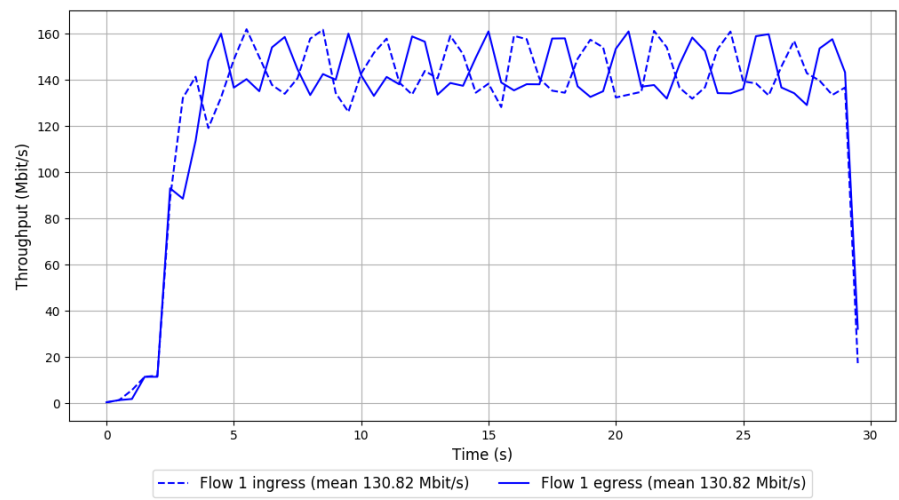
-- Flow 1:

Average throughput: 130.82 Mbit/s

95th percentile per-packet one-way delay: 136.346 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 20:26:15

End at: 2017-12-11 20:26:45

Below is generated by plot.py at 2017-12-11 22:20:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.75 Mbit/s

95th percentile per-packet one-way delay: 136.964 ms

Loss rate: 0.07%

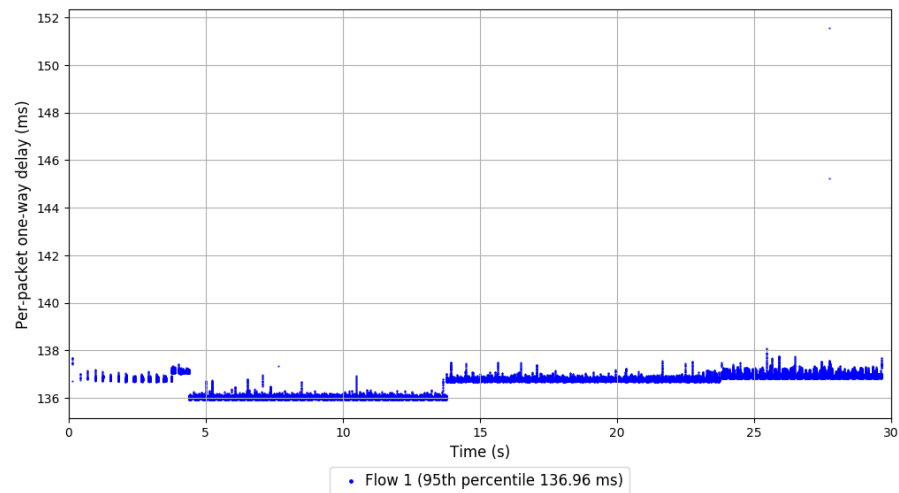
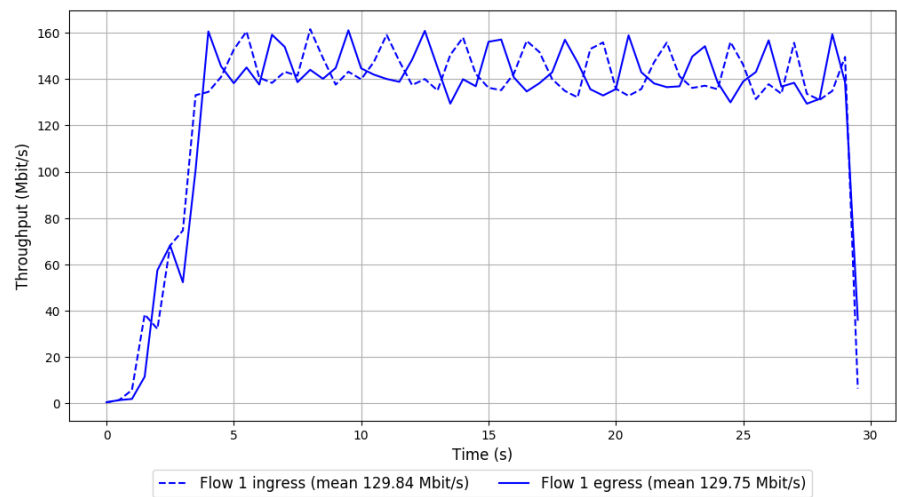
-- Flow 1:

Average throughput: 129.75 Mbit/s

95th percentile per-packet one-way delay: 136.964 ms

Loss rate: 0.07%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 20:37:31

End at: 2017-12-11 20:38:01

Below is generated by plot.py at 2017-12-11 22:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.96 Mbit/s

95th percentile per-packet one-way delay: 136.961 ms

Loss rate: 0.00%

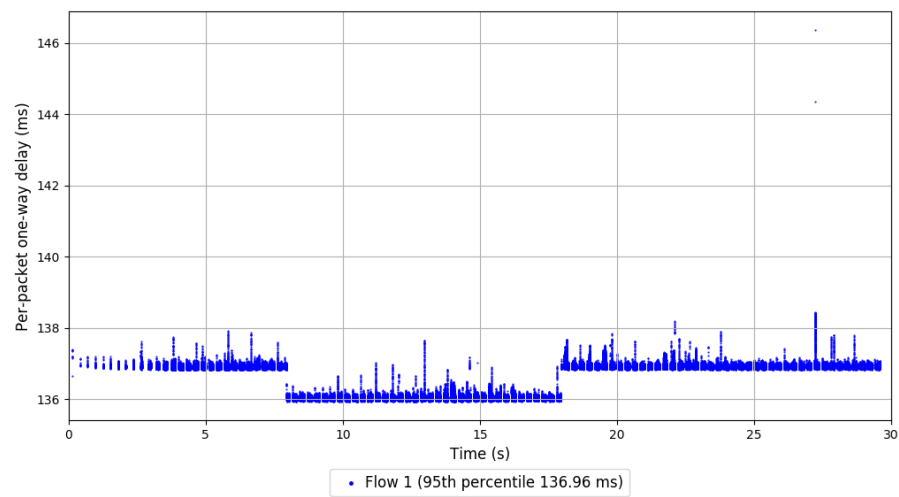
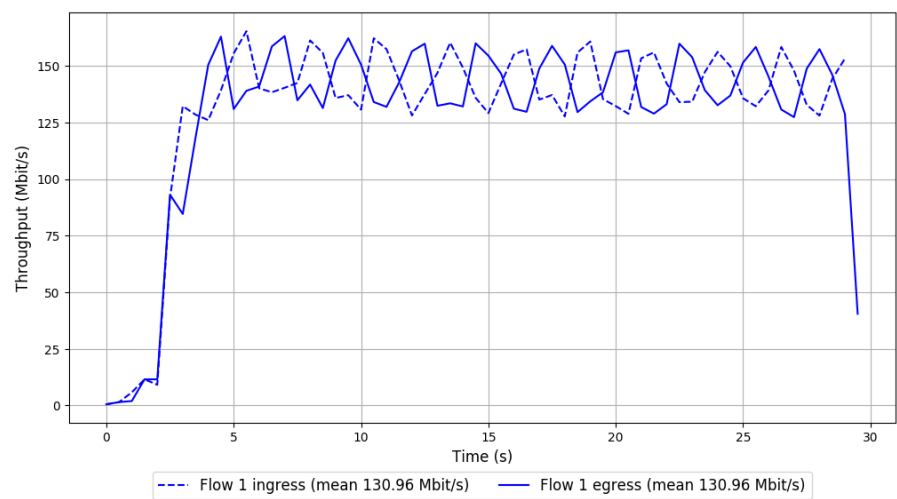
-- Flow 1:

Average throughput: 130.96 Mbit/s

95th percentile per-packet one-way delay: 136.961 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 20:48:38

End at: 2017-12-11 20:49:08

Below is generated by plot.py at 2017-12-11 22:20:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.09 Mbit/s

95th percentile per-packet one-way delay: 136.976 ms

Loss rate: 0.00%

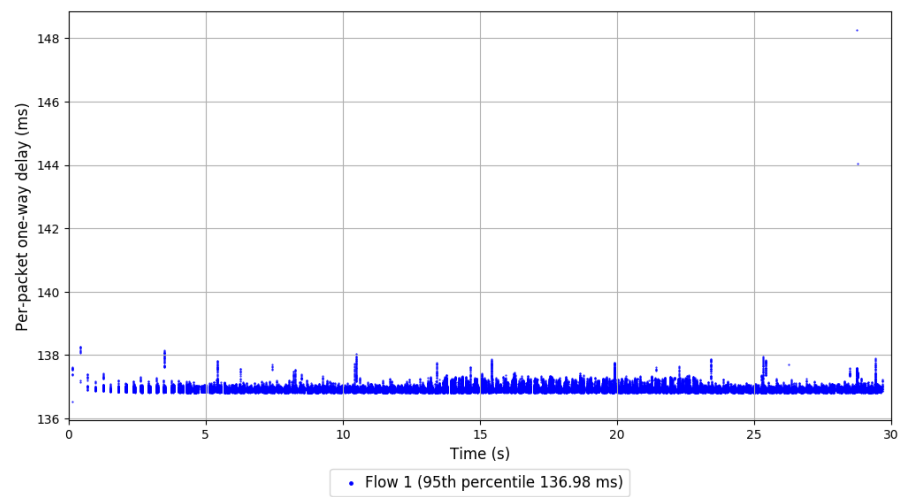
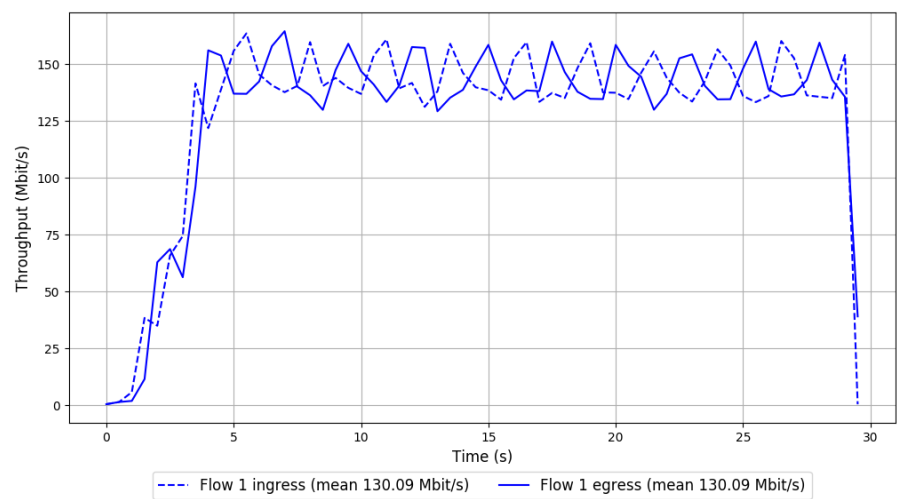
-- Flow 1:

Average throughput: 130.09 Mbit/s

95th percentile per-packet one-way delay: 136.976 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 21:00:03

End at: 2017-12-11 21:00:33

Below is generated by plot.py at 2017-12-11 22:20:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.21 Mbit/s

95th percentile per-packet one-way delay: 136.365 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 130.21 Mbit/s

95th percentile per-packet one-way delay: 136.365 ms

Loss rate: 0.06%

Run 10: Report of Indigo-calib — Data Link

