

Pantheon Report

Generated at 2017-11-30 19:36:24 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

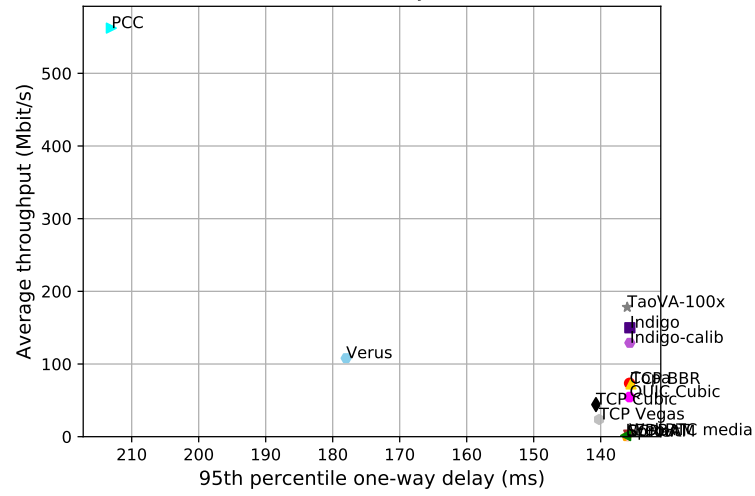
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

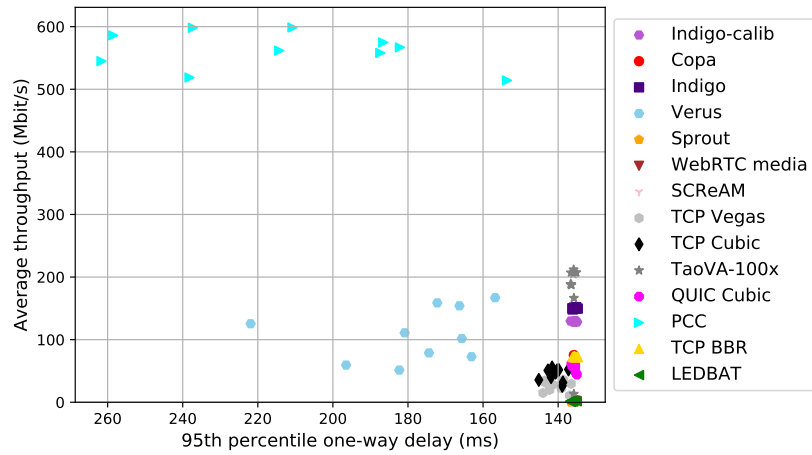
Git summary:

```
branch: indigos @ 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 London Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE London Ethernet to GCE Sydney 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	72.62	135.47	1.11
TCP Cubic	10	44.21	140.71	1.33
LEDBAT	10	1.49	136.28	1.13
PCC	10	562.24	213.04	2.98
QUIC Cubic	7	54.55	135.70	1.24
SCReAM	10	0.22	135.97	0.89
WebRTC media	10	2.11	135.82	0.99
Sprout	10	0.39	136.10	0.94
TaoVA-100x	10	178.19	136.04	1.07
TCP Vegas	10	23.70	140.25	0.72
Verus	10	108.04	178.00	1.46
Copa	3	73.54	135.70	1.17
Indigo	10	149.90	135.65	1.09
Indigo-calib	10	129.16	135.65	1.11

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 15:13:45

End at: 2017-11-30 15:14:15

Below is generated by plot.py at 2017-11-30 19:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.04 Mbit/s

95th percentile per-packet one-way delay: 135.667 ms

Loss rate: 0.96%

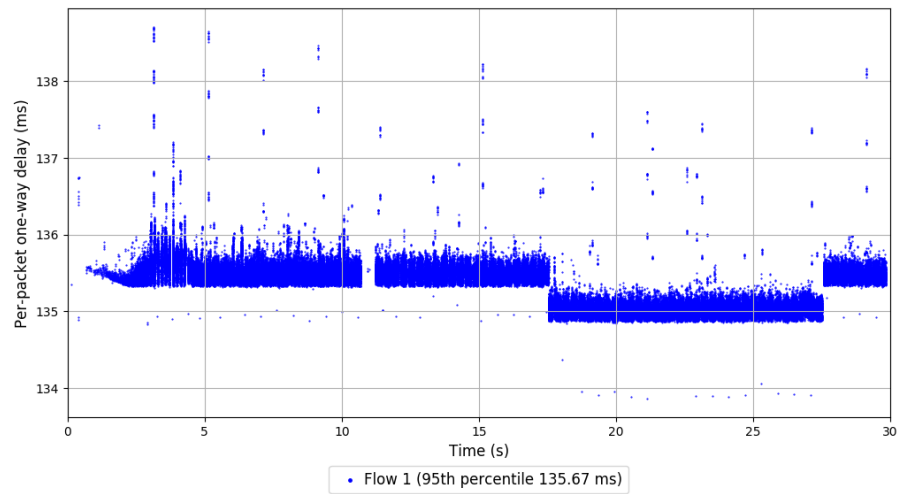
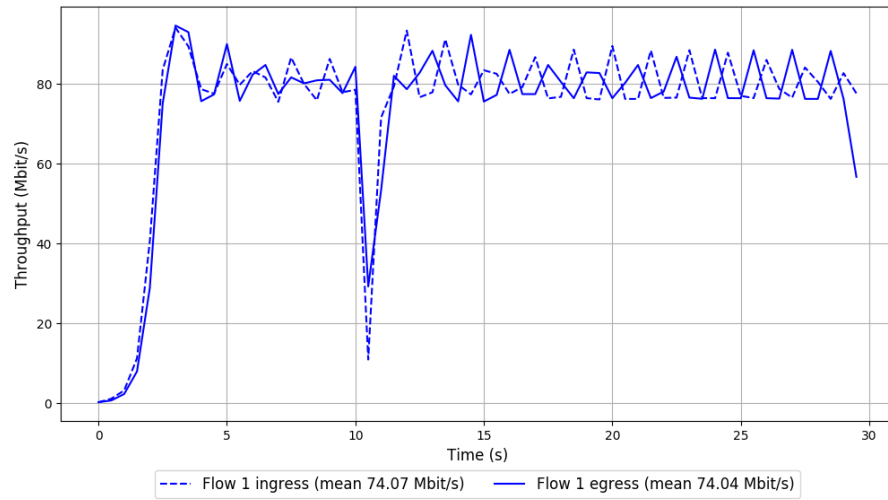
-- Flow 1:

Average throughput: 74.04 Mbit/s

95th percentile per-packet one-way delay: 135.667 ms

Loss rate: 0.96%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 15:24:55

End at: 2017-11-30 15:25:25

Below is generated by plot.py at 2017-11-30 19:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.32 Mbit/s

95th percentile per-packet one-way delay: 135.687 ms

Loss rate: 1.11%

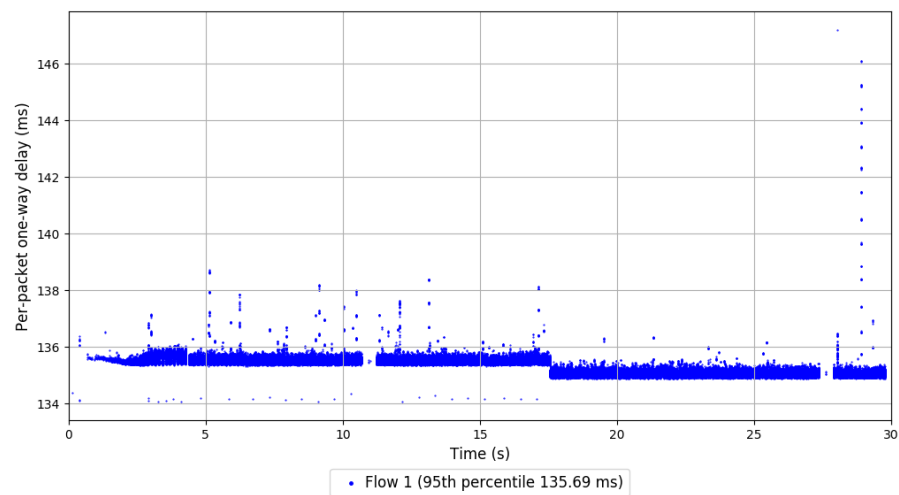
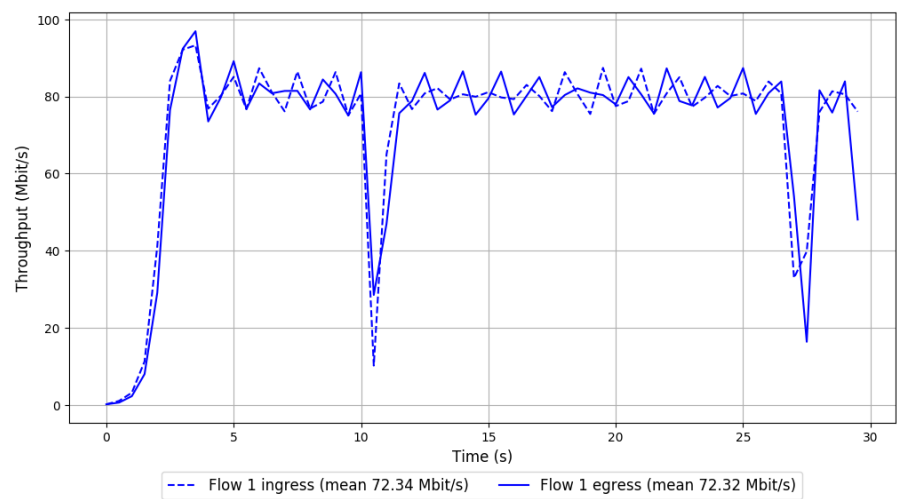
-- Flow 1:

Average throughput: 72.32 Mbit/s

95th percentile per-packet one-way delay: 135.687 ms

Loss rate: 1.11%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 15:36:26

End at: 2017-11-30 15:36:56

Below is generated by plot.py at 2017-11-30 19:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 135.729 ms

Loss rate: 1.05%

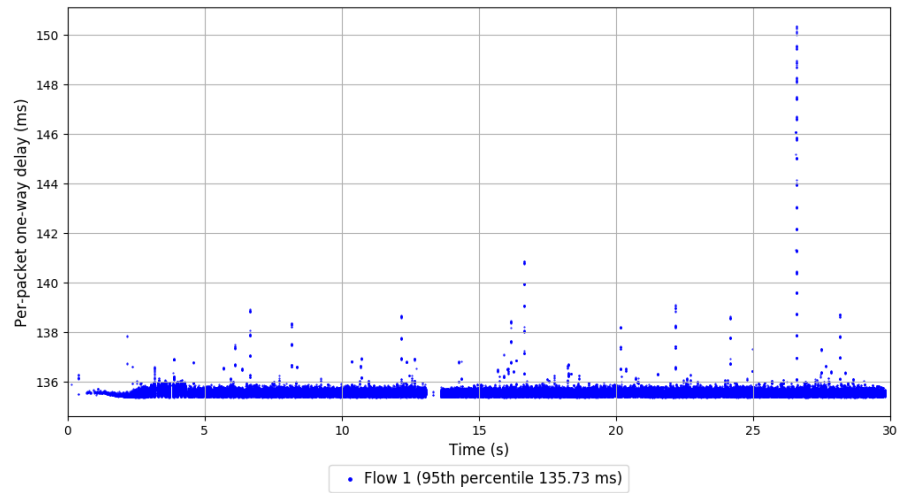
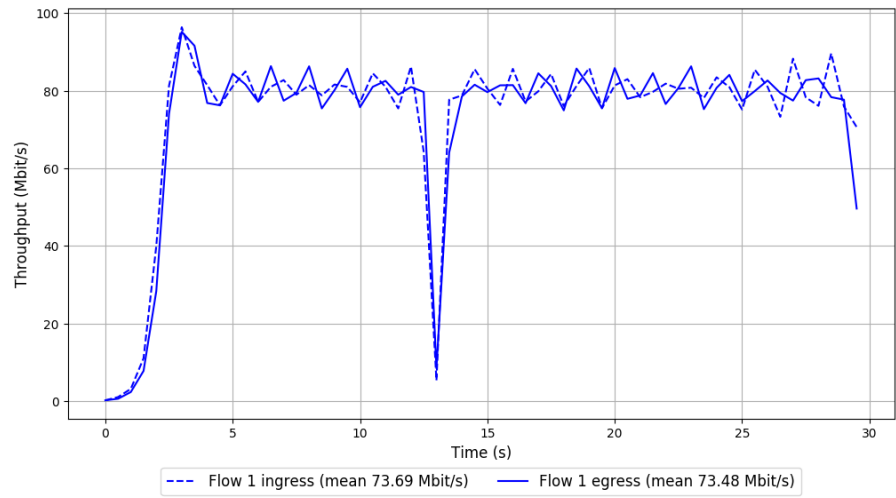
-- Flow 1:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 135.729 ms

Loss rate: 1.05%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-30 15:48:01

End at: 2017-11-30 15:48:31

Below is generated by plot.py at 2017-11-30 19:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.05 Mbit/s

95th percentile per-packet one-way delay: 134.729 ms

Loss rate: 1.12%

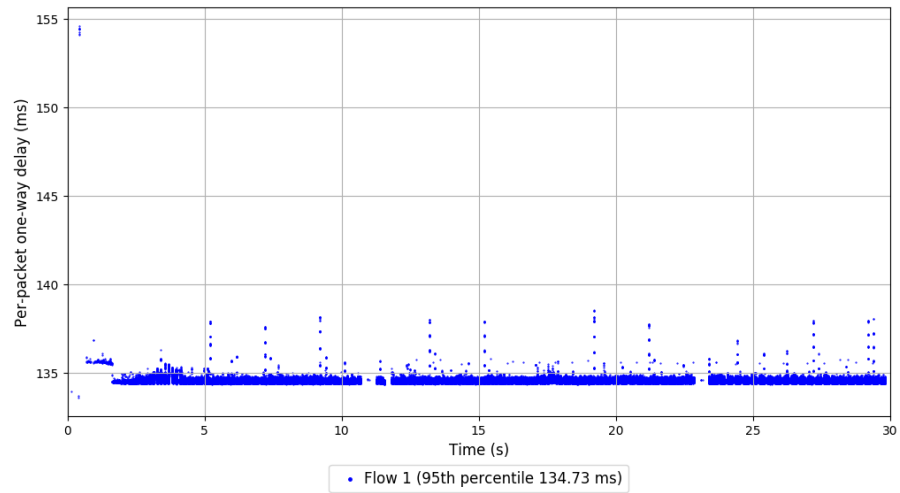
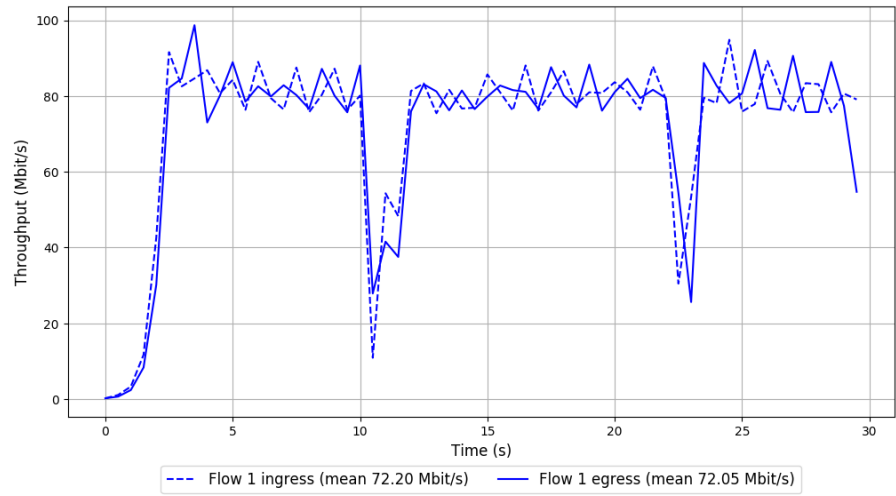
-- Flow 1:

Average throughput: 72.05 Mbit/s

95th percentile per-packet one-way delay: 134.729 ms

Loss rate: 1.12%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 15:59:39

End at: 2017-11-30 16:00:09

Below is generated by plot.py at 2017-11-30 19:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 134.846 ms

Loss rate: 0.98%

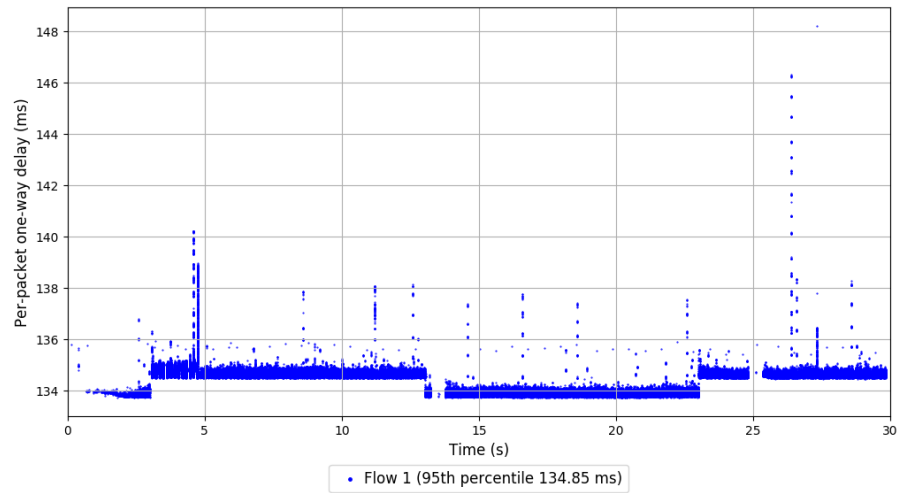
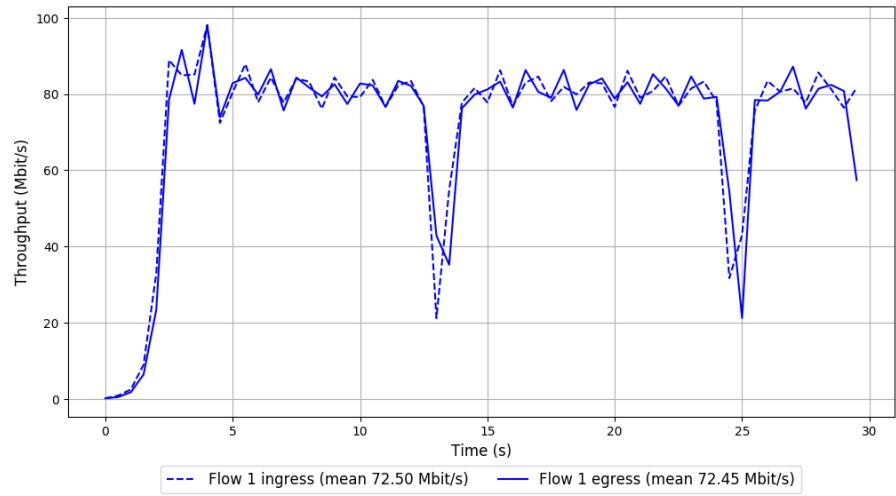
-- Flow 1:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 134.846 ms

Loss rate: 0.98%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-30 16:11:11

End at: 2017-11-30 16:11:41

Below is generated by plot.py at 2017-11-30 19:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 134.919 ms

Loss rate: 1.06%

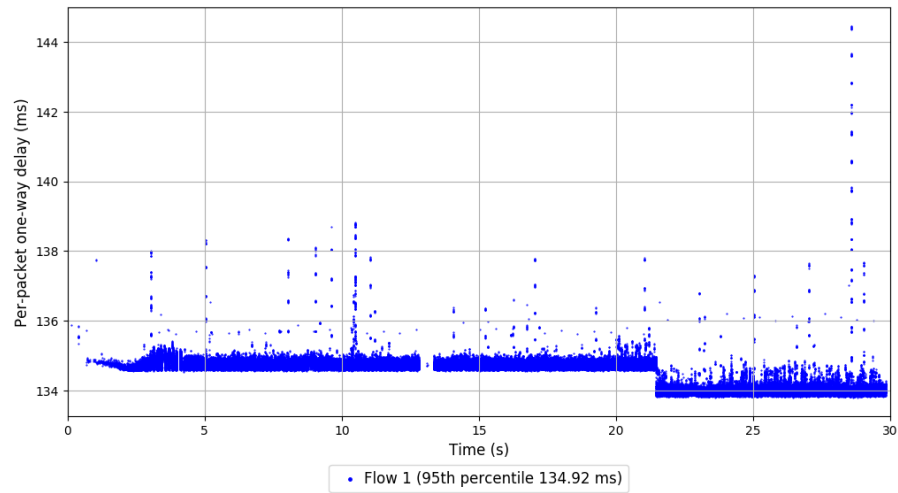
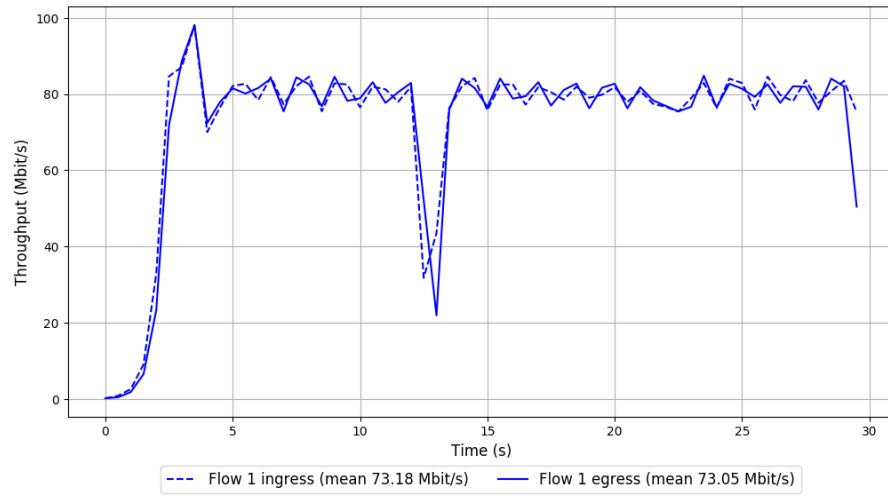
-- Flow 1:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 134.919 ms

Loss rate: 1.06%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-30 16:22:44

End at: 2017-11-30 16:23:14

Below is generated by plot.py at 2017-11-30 19:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.64 Mbit/s

95th percentile per-packet one-way delay: 135.395 ms

Loss rate: 1.10%

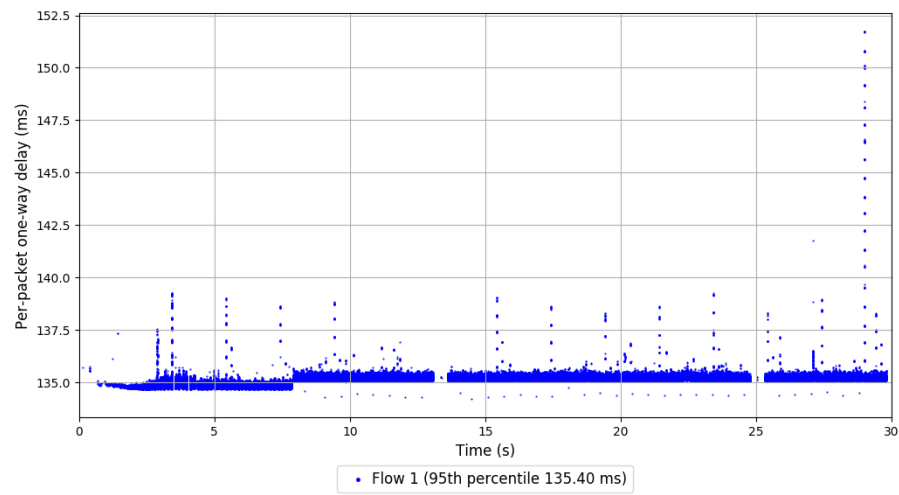
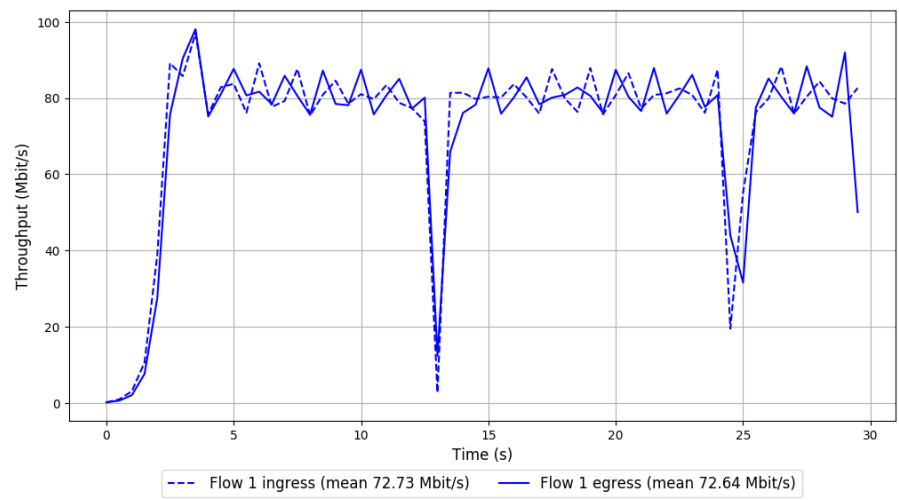
-- Flow 1:

Average throughput: 72.64 Mbit/s

95th percentile per-packet one-way delay: 135.395 ms

Loss rate: 1.10%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 16:34:15

End at: 2017-11-30 16:34:45

Below is generated by plot.py at 2017-11-30 19:03:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.48 Mbit/s

95th percentile per-packet one-way delay: 135.460 ms

Loss rate: 1.08%

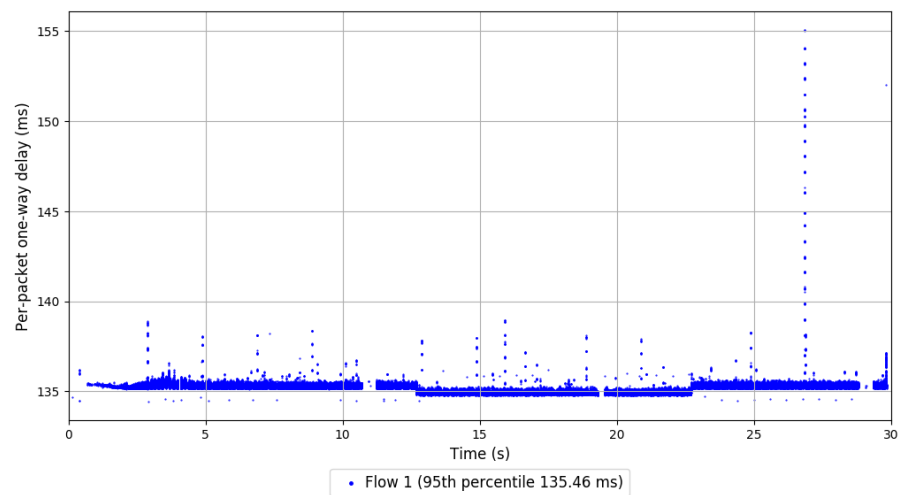
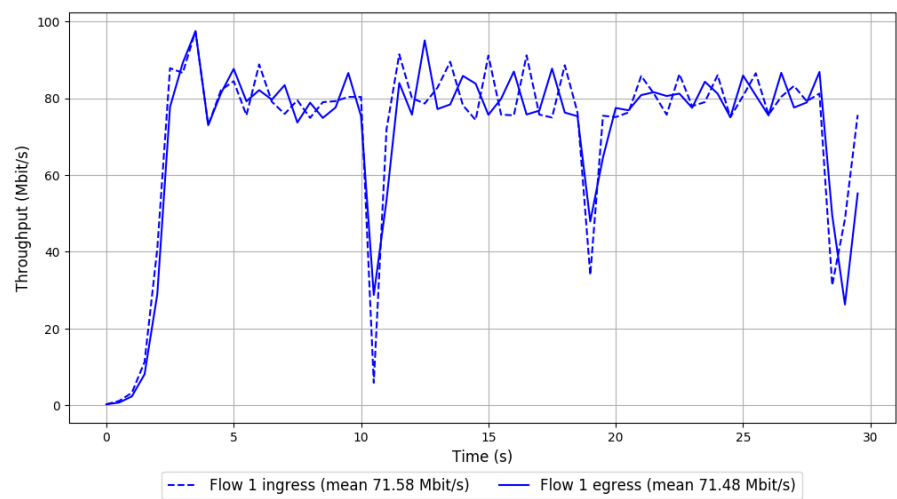
-- Flow 1:

Average throughput: 71.48 Mbit/s

95th percentile per-packet one-way delay: 135.460 ms

Loss rate: 1.08%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-30 16:45:37

End at: 2017-11-30 16:46:07

Below is generated by plot.py at 2017-11-30 19:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.64 Mbit/s

95th percentile per-packet one-way delay: 136.111 ms

Loss rate: 1.52%

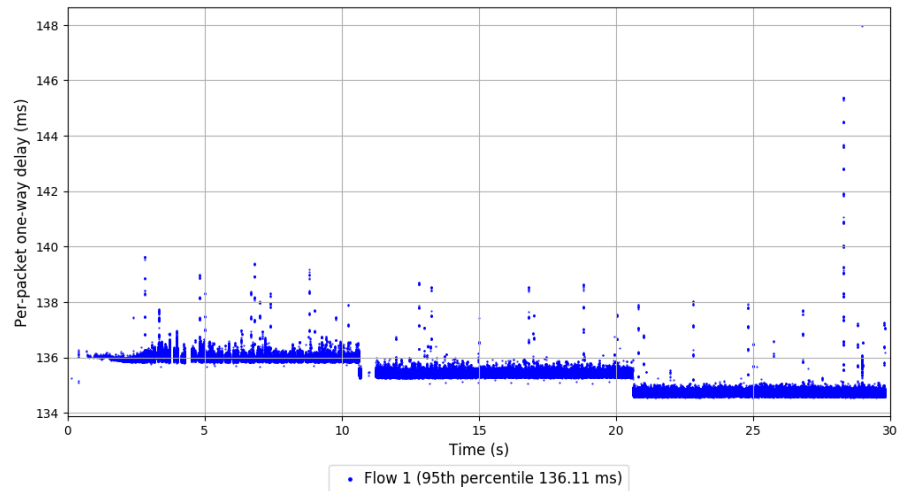
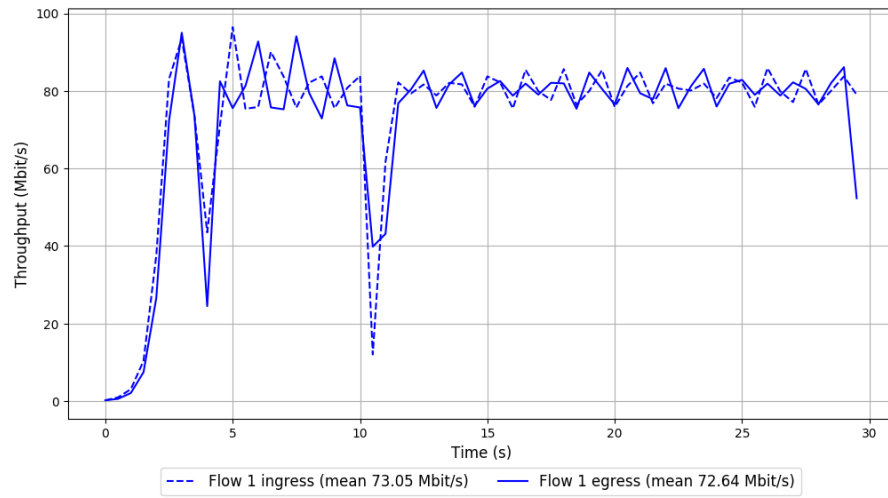
-- Flow 1:

Average throughput: 72.64 Mbit/s

95th percentile per-packet one-way delay: 136.111 ms

Loss rate: 1.52%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 16:57:02

End at: 2017-11-30 16:57:32

Below is generated by plot.py at 2017-11-30 19:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 136.141 ms

Loss rate: 1.10%

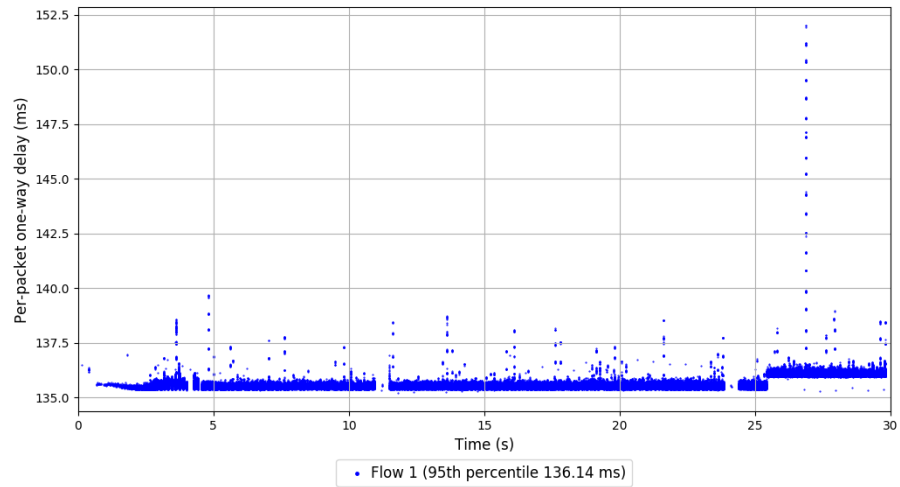
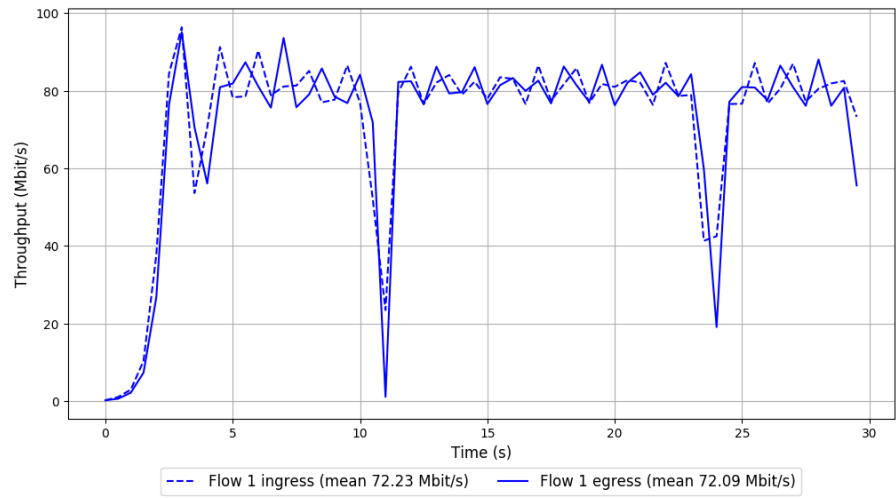
-- Flow 1:

Average throughput: 72.09 Mbit/s

95th percentile per-packet one-way delay: 136.141 ms

Loss rate: 1.10%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 15:18:33

End at: 2017-11-30 15:19:03

Below is generated by plot.py at 2017-11-30 19:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.74 Mbit/s

95th percentile per-packet one-way delay: 145.147 ms

Loss rate: 0.81%

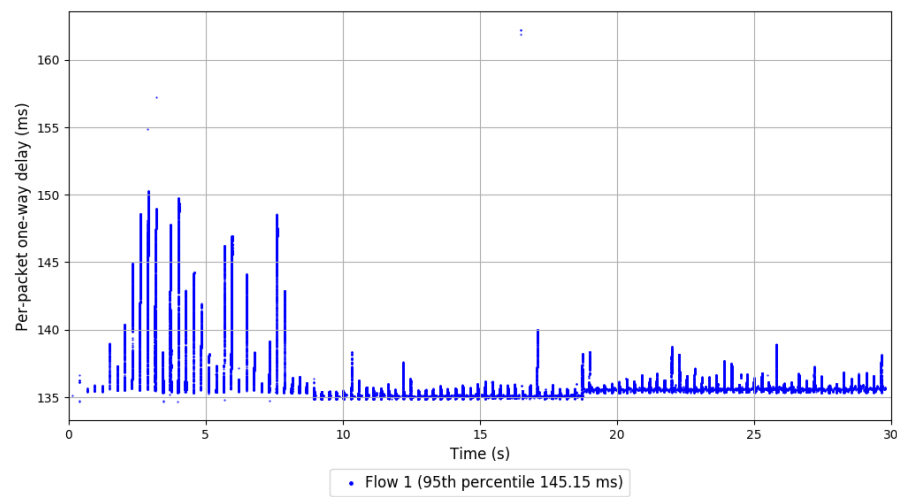
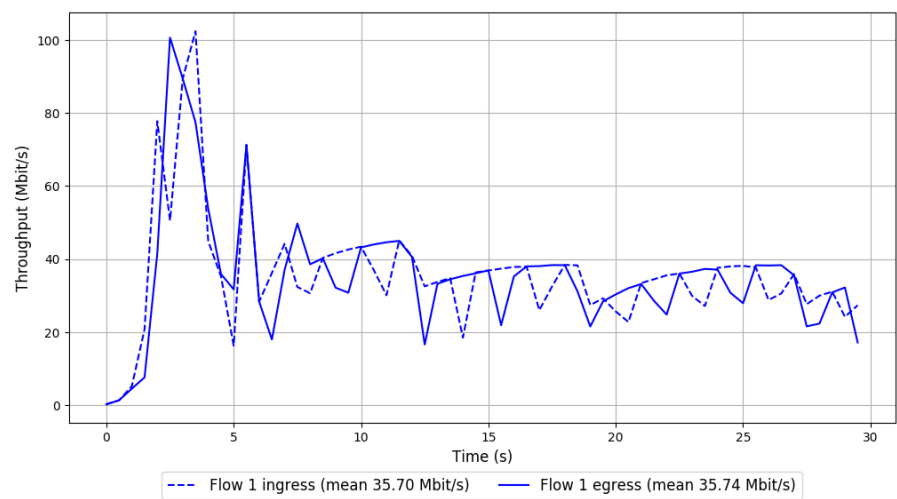
-- Flow 1:

Average throughput: 35.74 Mbit/s

95th percentile per-packet one-way delay: 145.147 ms

Loss rate: 0.81%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 15:30:04

End at: 2017-11-30 15:30:34

Below is generated by plot.py at 2017-11-30 19:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 139.853 ms

Loss rate: 1.72%

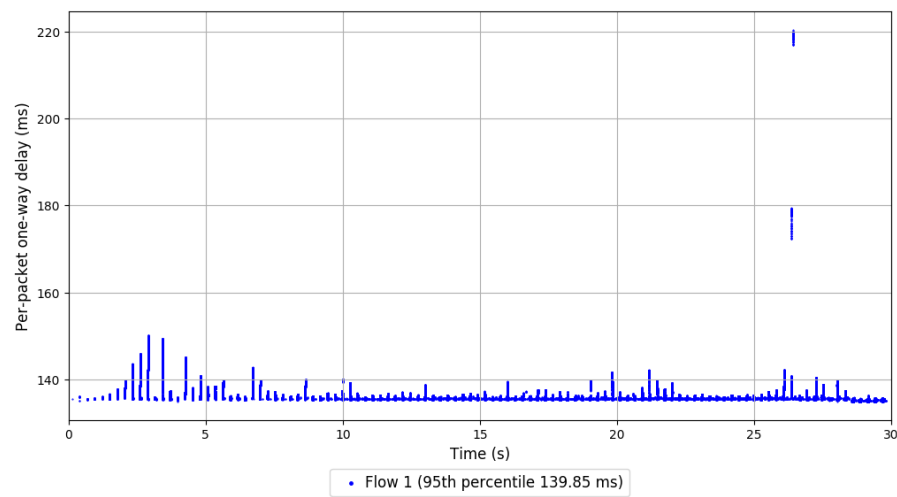
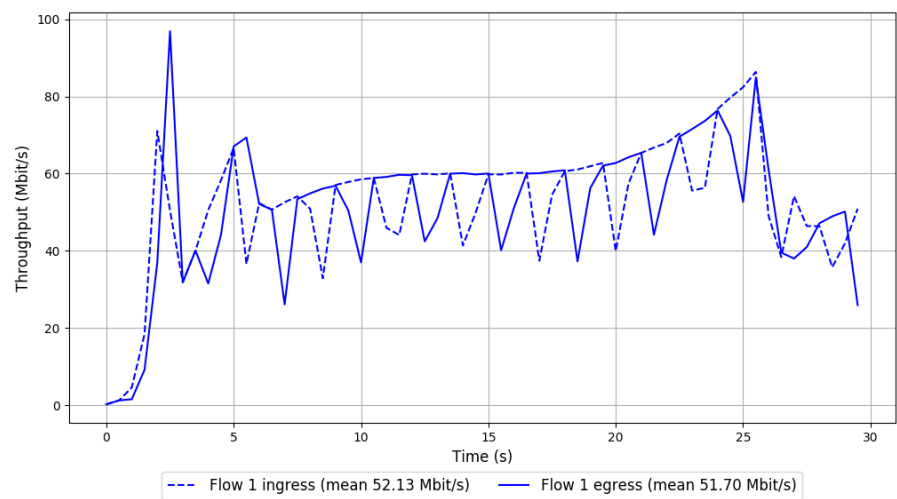
-- Flow 1:

Average throughput: 51.70 Mbit/s

95th percentile per-packet one-way delay: 139.853 ms

Loss rate: 1.72%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 15:41:37

End at: 2017-11-30 15:42:07

Below is generated by plot.py at 2017-11-30 19:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.17 Mbit/s

95th percentile per-packet one-way delay: 141.885 ms

Loss rate: 0.86%

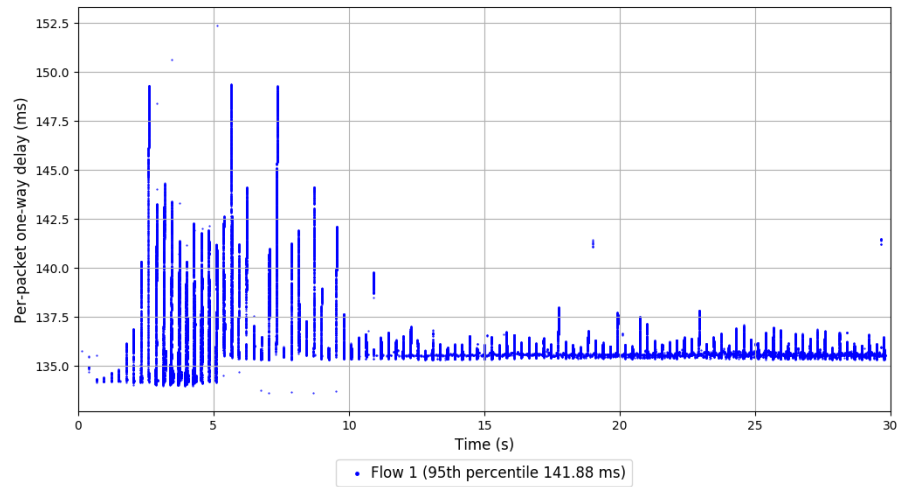
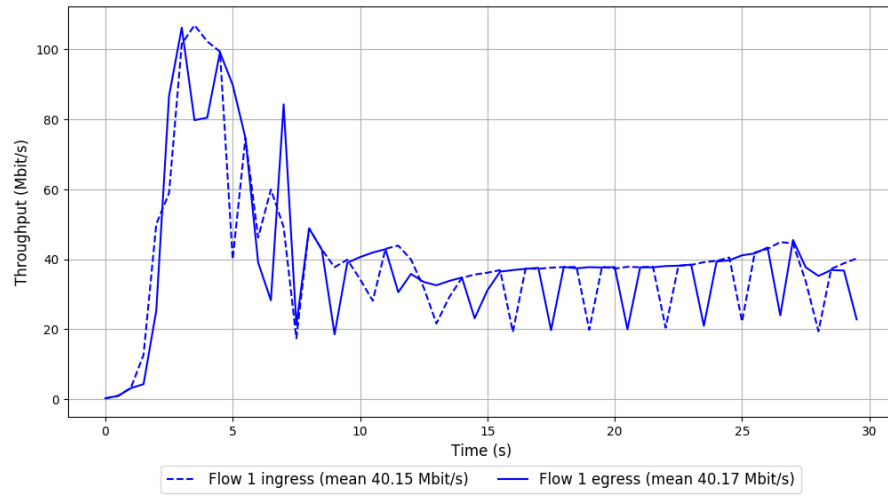
-- Flow 1:

Average throughput: 40.17 Mbit/s

95th percentile per-packet one-way delay: 141.885 ms

Loss rate: 0.86%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 15:53:12

End at: 2017-11-30 15:53:42

Below is generated by plot.py at 2017-11-30 19:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.81 Mbit/s

95th percentile per-packet one-way delay: 140.290 ms

Loss rate: 1.45%

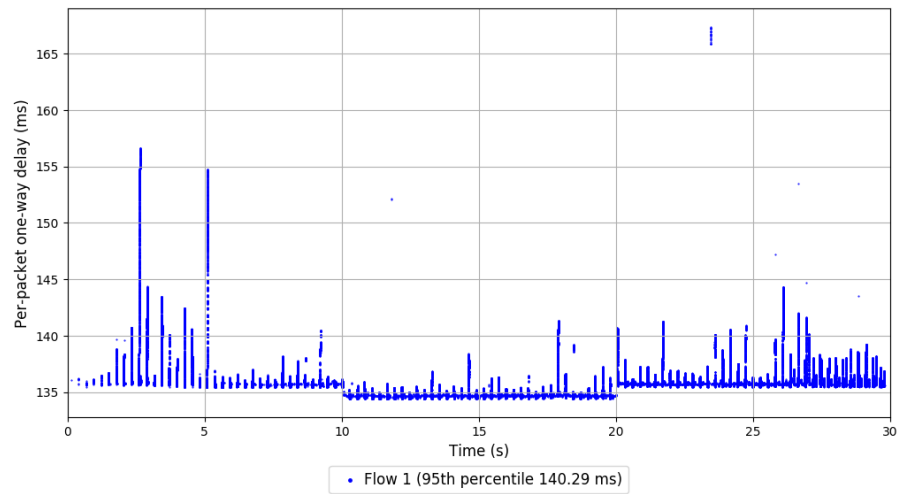
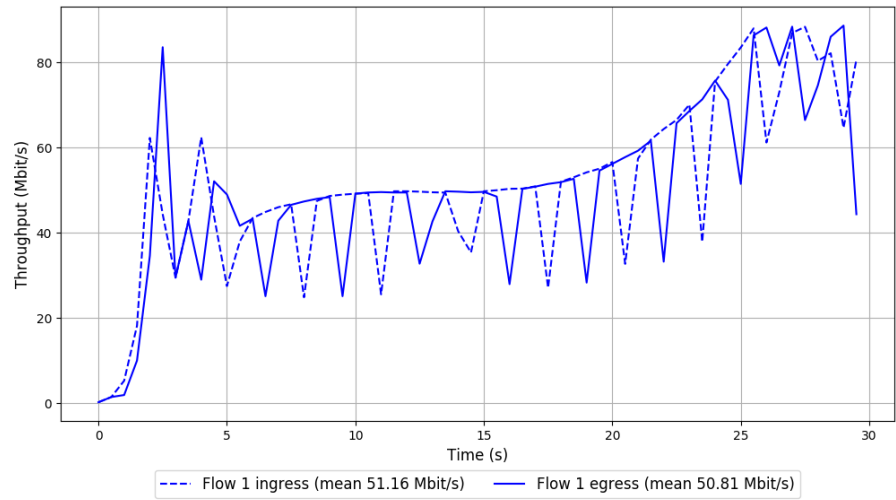
-- Flow 1:

Average throughput: 50.81 Mbit/s

95th percentile per-packet one-way delay: 140.290 ms

Loss rate: 1.45%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 16:04:54

End at: 2017-11-30 16:05:24

Below is generated by plot.py at 2017-11-30 19:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 140.681 ms

Loss rate: 1.44%

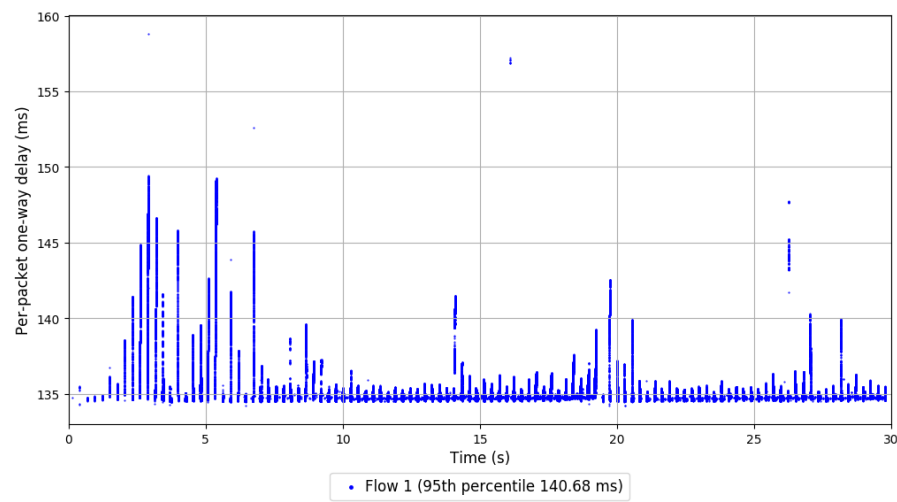
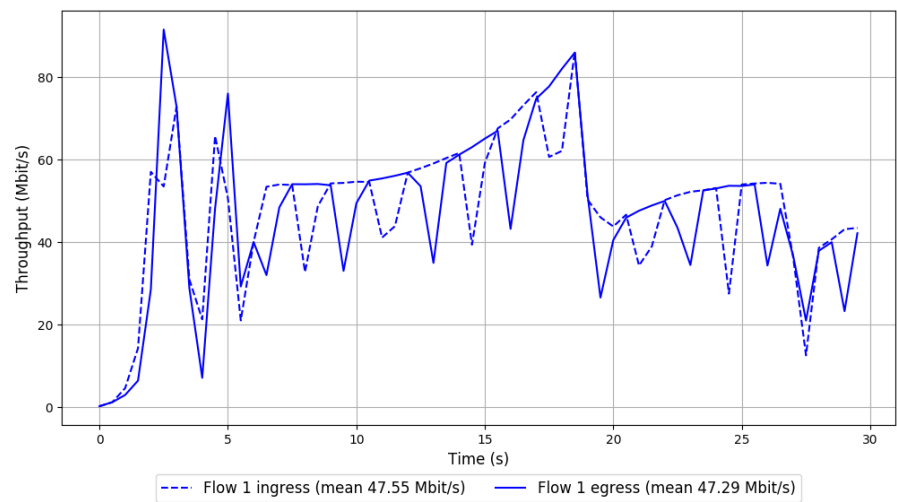
-- Flow 1:

Average throughput: 47.29 Mbit/s

95th percentile per-packet one-way delay: 140.681 ms

Loss rate: 1.44%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 16:16:17

End at: 2017-11-30 16:16:47

Below is generated by plot.py at 2017-11-30 19:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.40 Mbit/s

95th percentile per-packet one-way delay: 137.243 ms

Loss rate: 1.07%

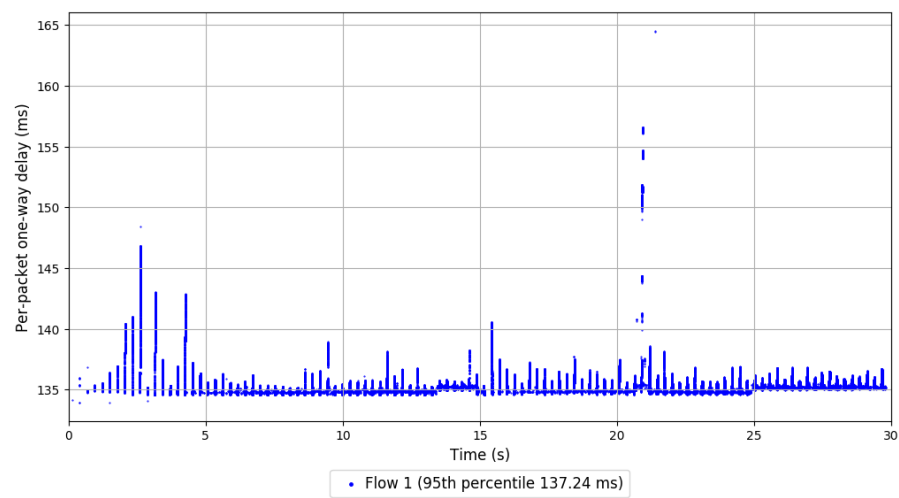
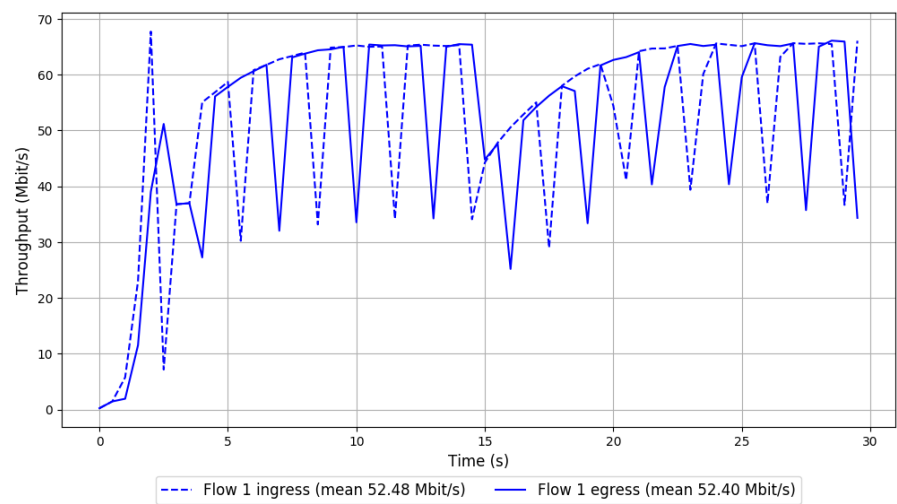
-- Flow 1:

Average throughput: 52.40 Mbit/s

95th percentile per-packet one-way delay: 137.243 ms

Loss rate: 1.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 16:27:56

End at: 2017-11-30 16:28:26

Below is generated by plot.py at 2017-11-30 19:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 138.738 ms

Loss rate: 1.85%

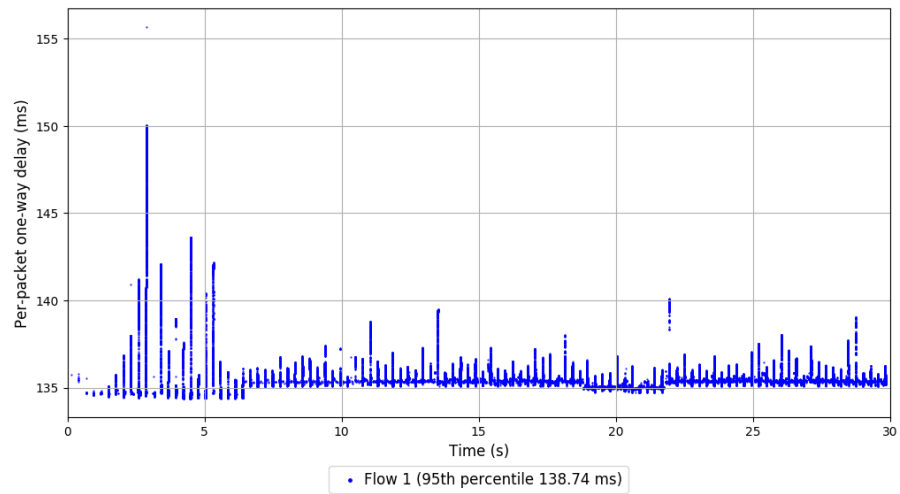
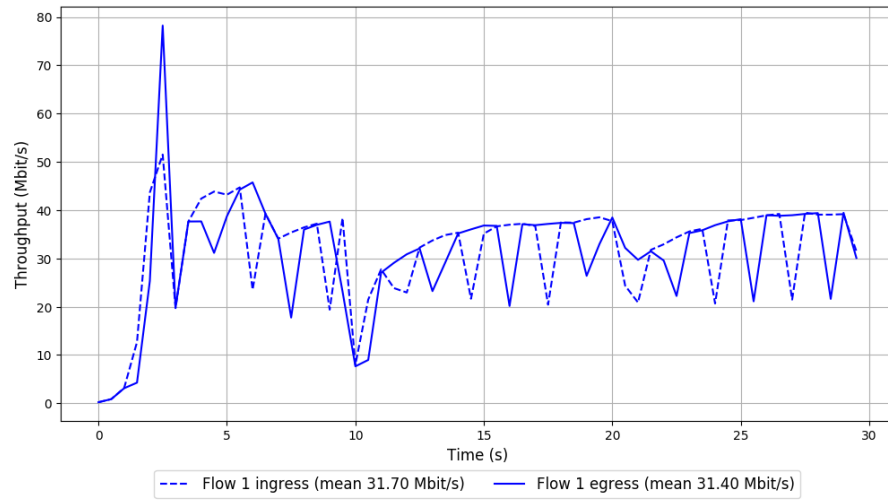
-- Flow 1:

Average throughput: 31.40 Mbit/s

95th percentile per-packet one-way delay: 138.738 ms

Loss rate: 1.85%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 16:39:18

End at: 2017-11-30 16:39:48

Below is generated by plot.py at 2017-11-30 19:04:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 142.734 ms

Loss rate: 1.21%

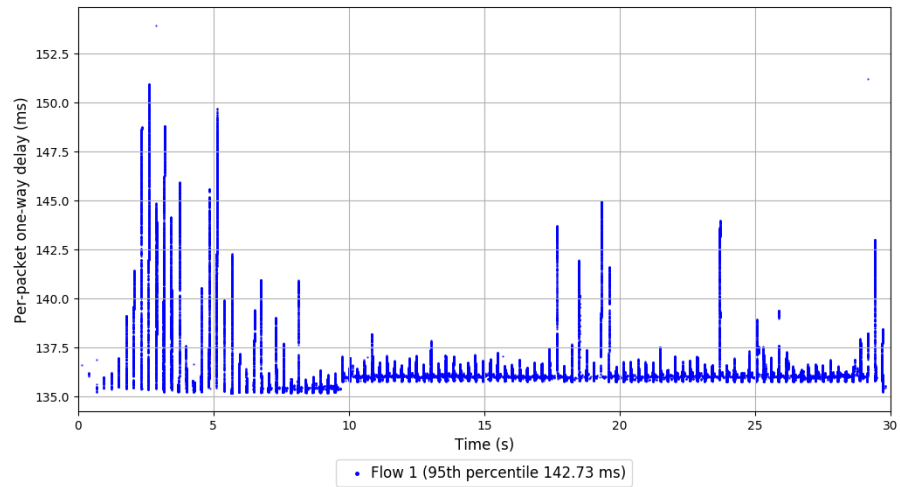
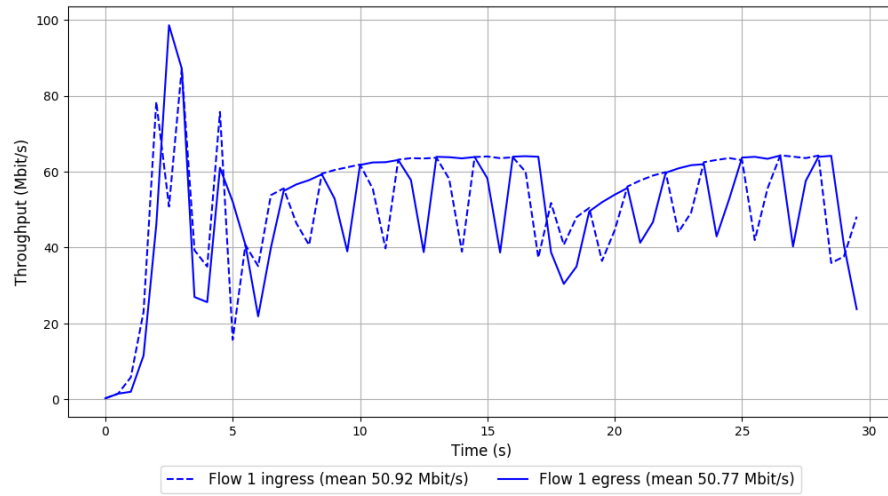
-- Flow 1:

Average throughput: 50.77 Mbit/s

95th percentile per-packet one-way delay: 142.734 ms

Loss rate: 1.21%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 16:50:41

End at: 2017-11-30 16:51:11

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.55 Mbit/s

95th percentile per-packet one-way delay: 141.603 ms

Loss rate: 0.99%

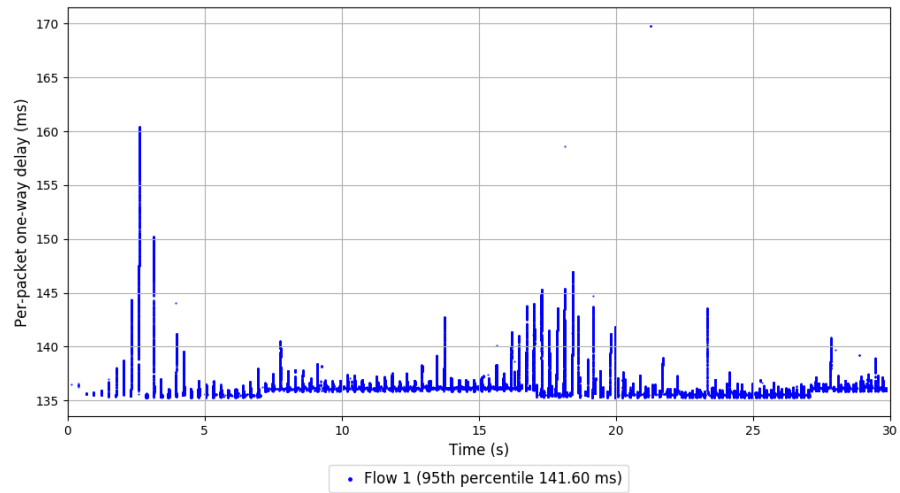
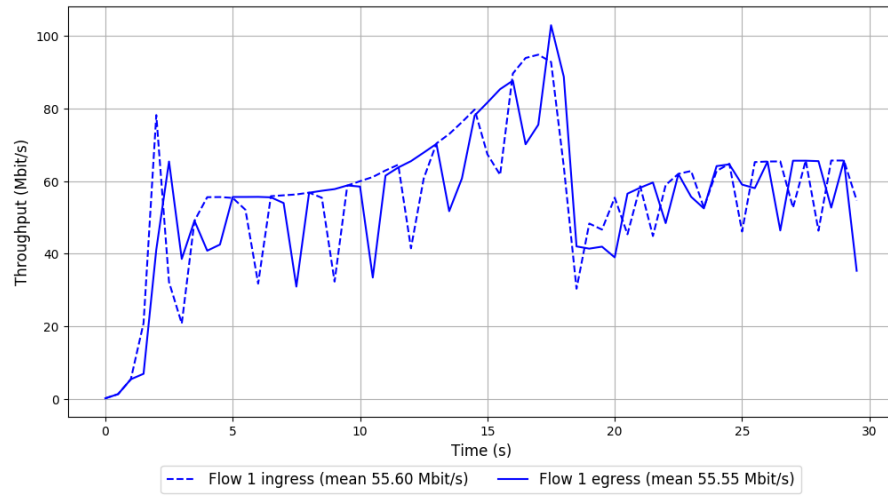
-- Flow 1:

Average throughput: 55.55 Mbit/s

95th percentile per-packet one-way delay: 141.603 ms

Loss rate: 0.99%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 17:02:14

End at: 2017-11-30 17:02:44

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 138.894 ms

Loss rate: 1.88%

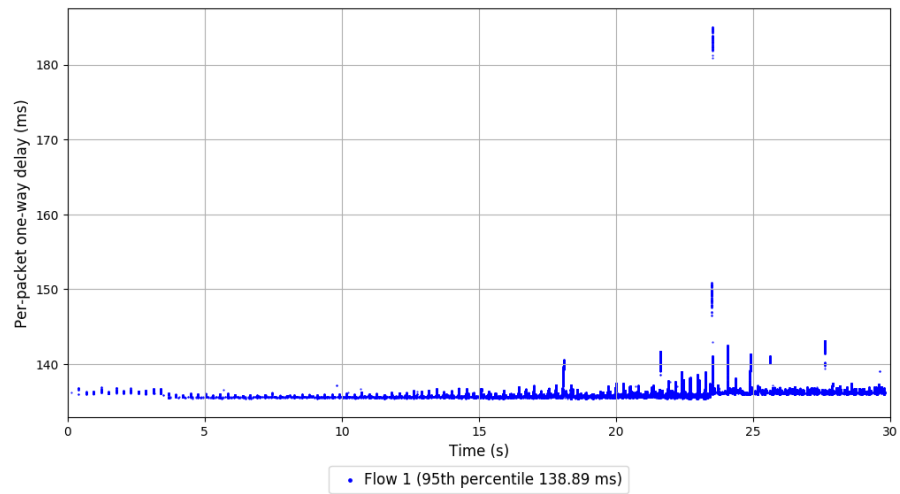
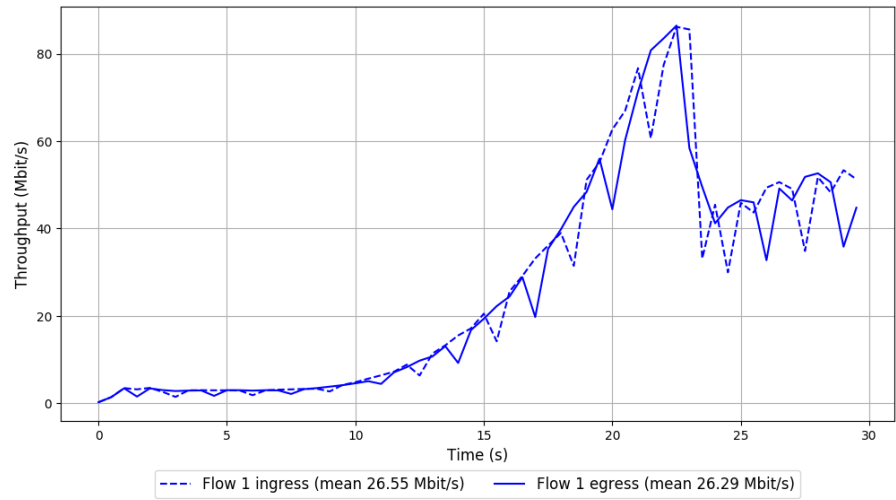
-- Flow 1:

Average throughput: 26.29 Mbit/s

95th percentile per-packet one-way delay: 138.894 ms

Loss rate: 1.88%

Run 10: Report of TCP Cubic — Data Link

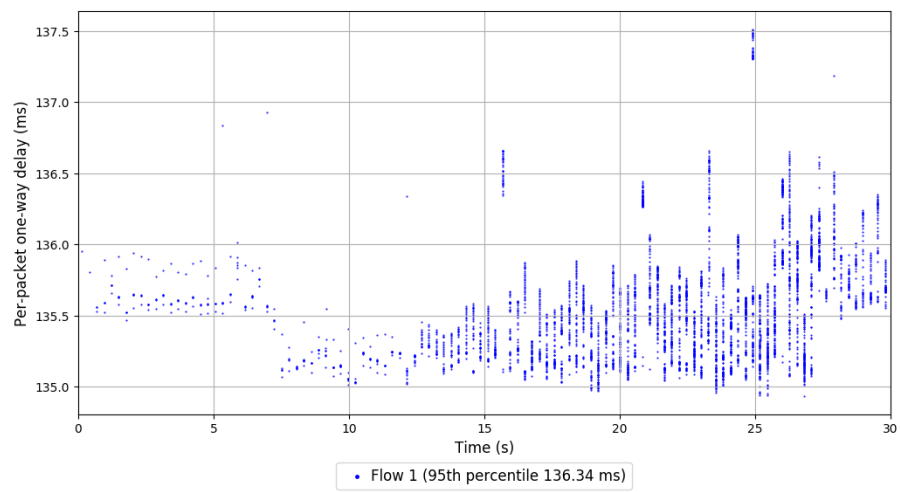
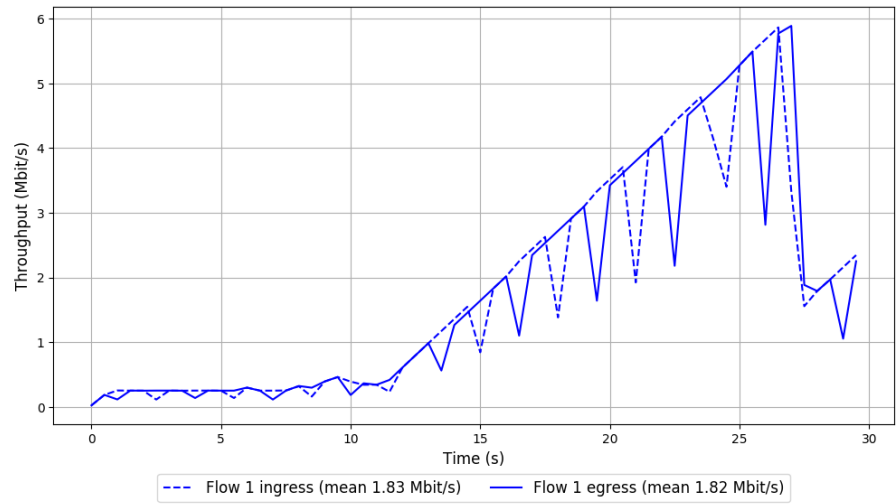


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 15:23:25
End at: 2017-11-30 15:23:55

# Below is generated by plot.py at 2017-11-30 19:05:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 136.336 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 136.336 ms
Loss rate: 1.16%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-30 15:34:56

End at: 2017-11-30 15:35:26

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 136.761 ms

Loss rate: 0.79%

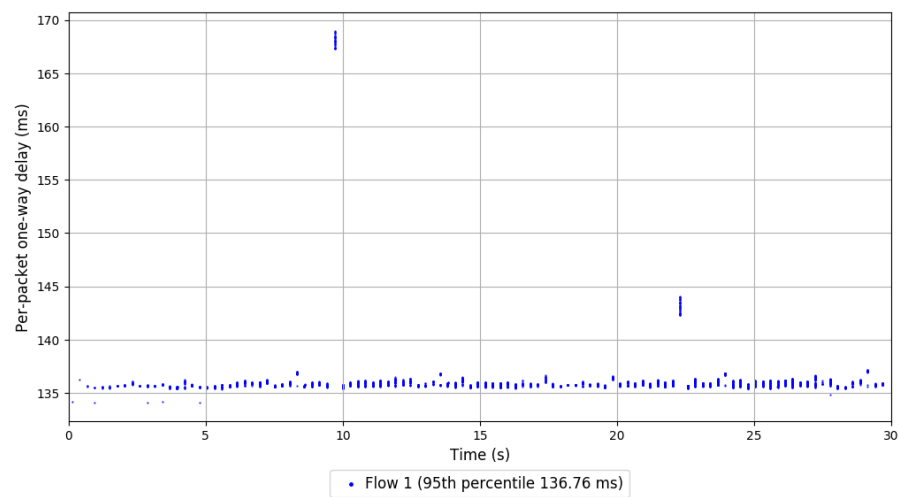
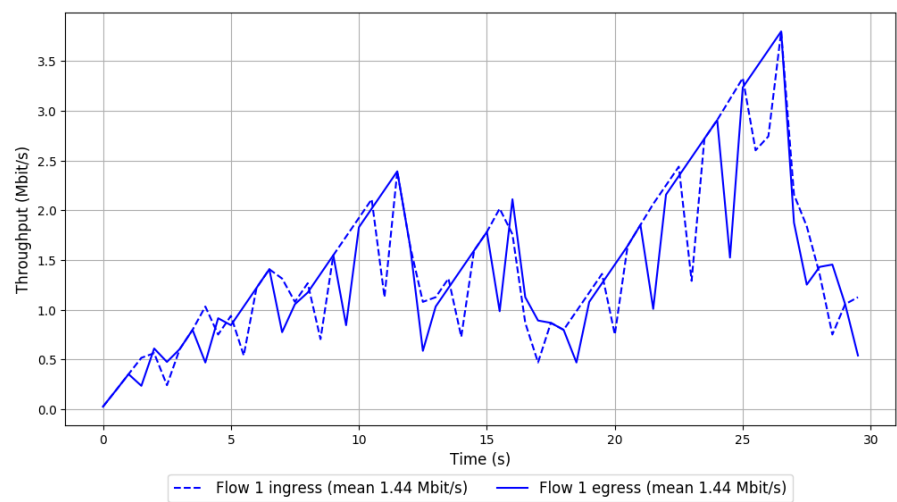
-- Flow 1:

Average throughput: 1.44 Mbit/s

95th percentile per-packet one-way delay: 136.761 ms

Loss rate: 0.79%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-30 15:46:30

End at: 2017-11-30 15:47:00

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 136.420 ms

Loss rate: 1.32%

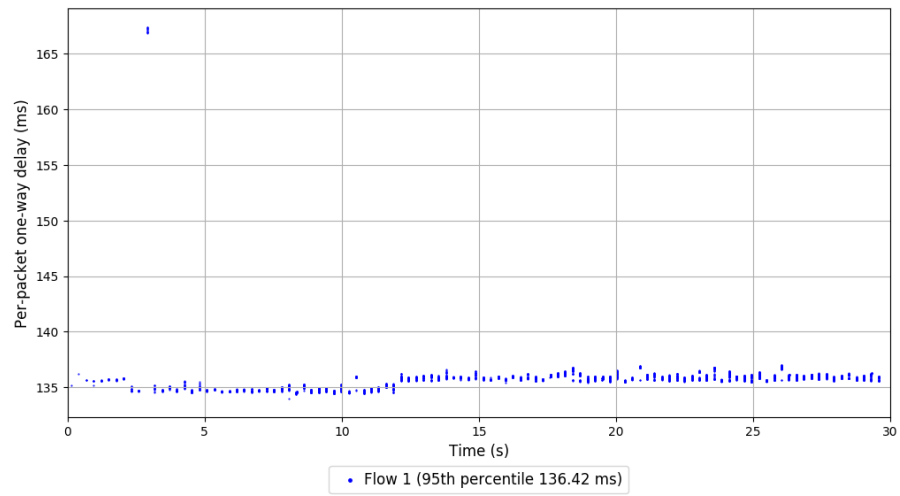
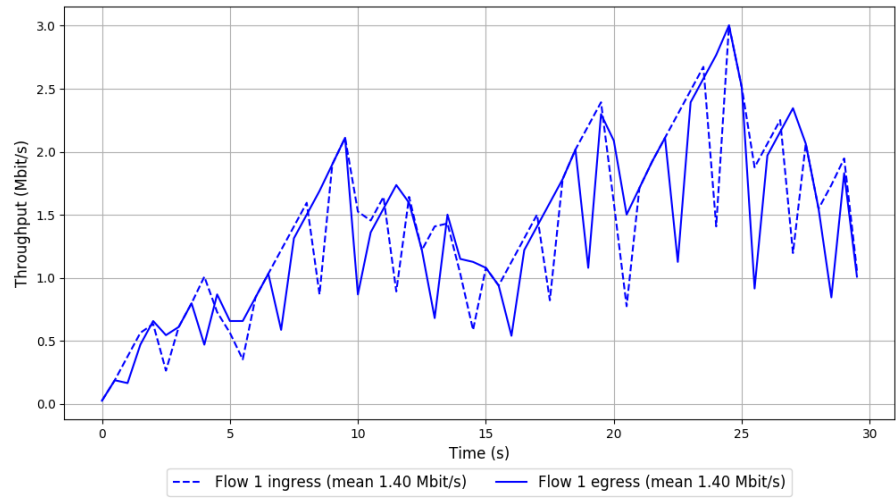
-- Flow 1:

Average throughput: 1.40 Mbit/s

95th percentile per-packet one-way delay: 136.420 ms

Loss rate: 1.32%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 15:58:09

End at: 2017-11-30 15:58:39

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 1.22%

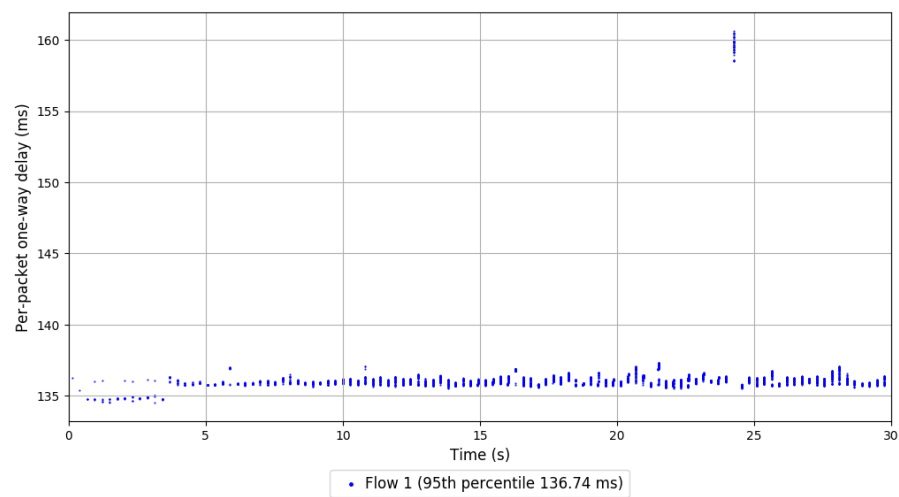
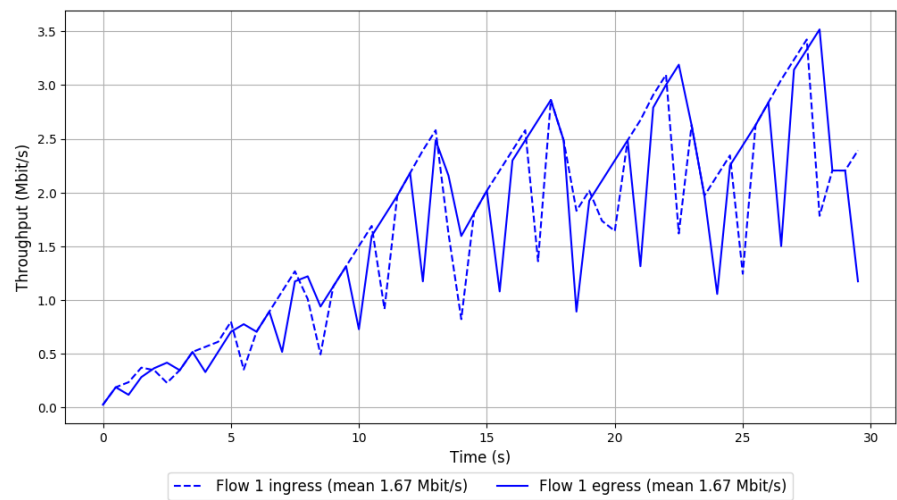
-- Flow 1:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 136.742 ms

Loss rate: 1.22%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 16:09:42

End at: 2017-11-30 16:10:12

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 135.027 ms

Loss rate: 1.68%

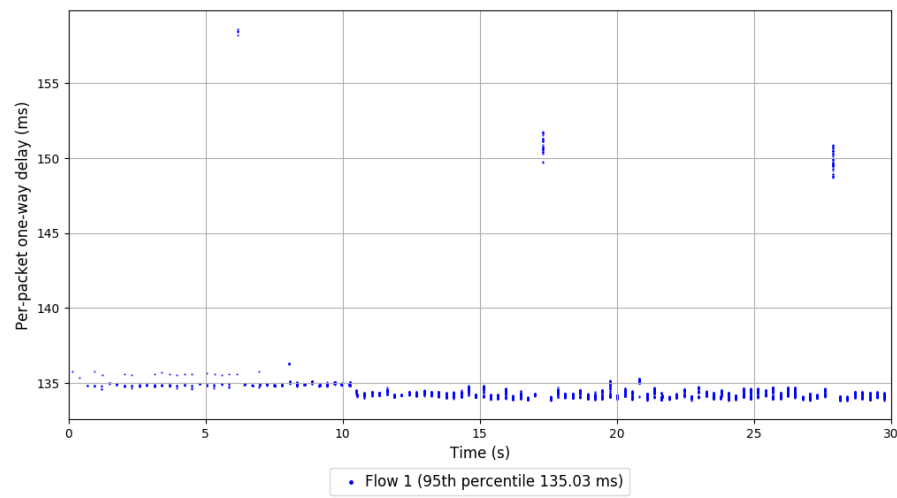
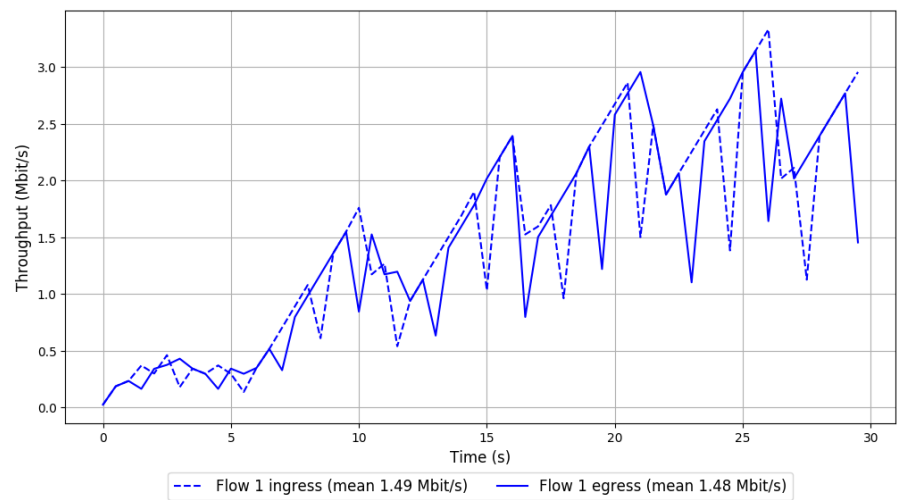
-- Flow 1:

Average throughput: 1.48 Mbit/s

95th percentile per-packet one-way delay: 135.027 ms

Loss rate: 1.68%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 16:21:14

End at: 2017-11-30 16:21:44

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 136.067 ms

Loss rate: 0.76%

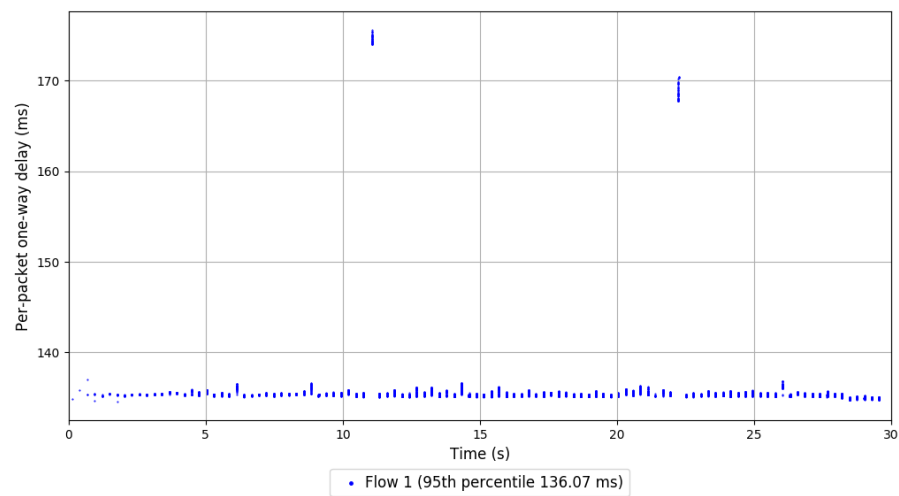
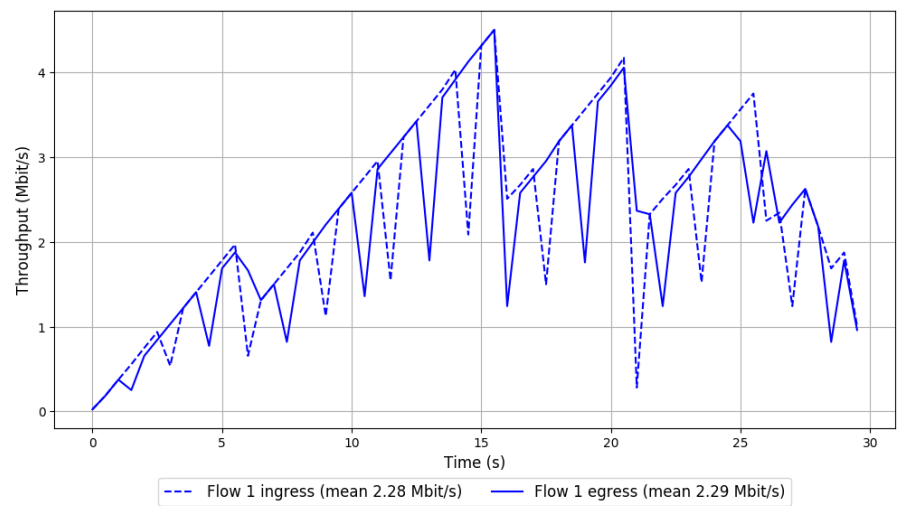
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 136.067 ms

Loss rate: 0.76%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 16:32:45

End at: 2017-11-30 16:33:15

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 135.935 ms

Loss rate: 0.92%

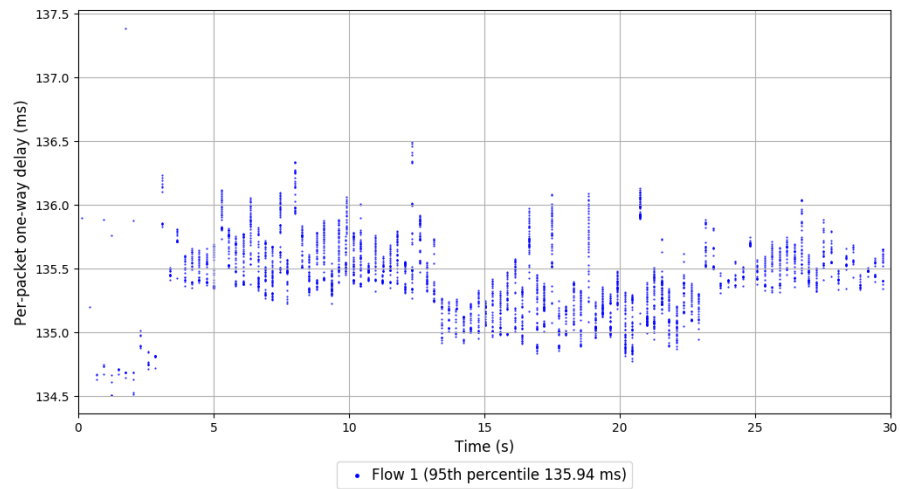
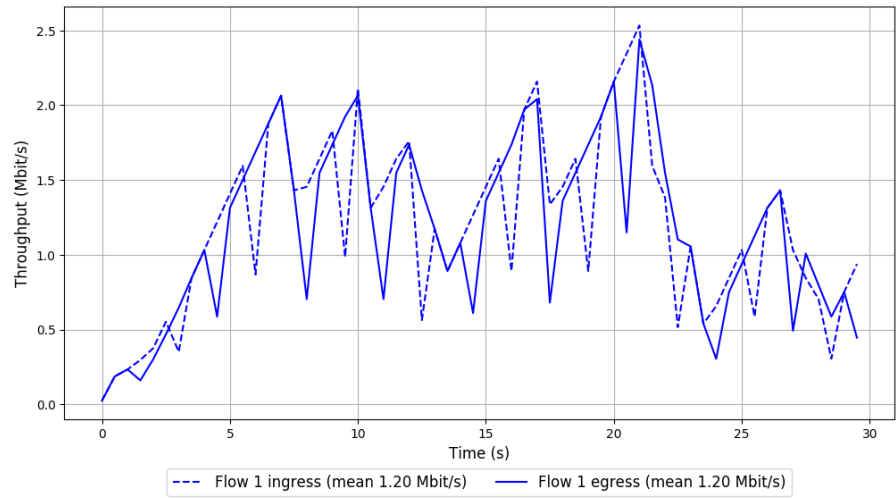
-- Flow 1:

Average throughput: 1.20 Mbit/s

95th percentile per-packet one-way delay: 135.935 ms

Loss rate: 0.92%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 16:44:07

End at: 2017-11-30 16:44:37

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 136.028 ms

Loss rate: 1.22%

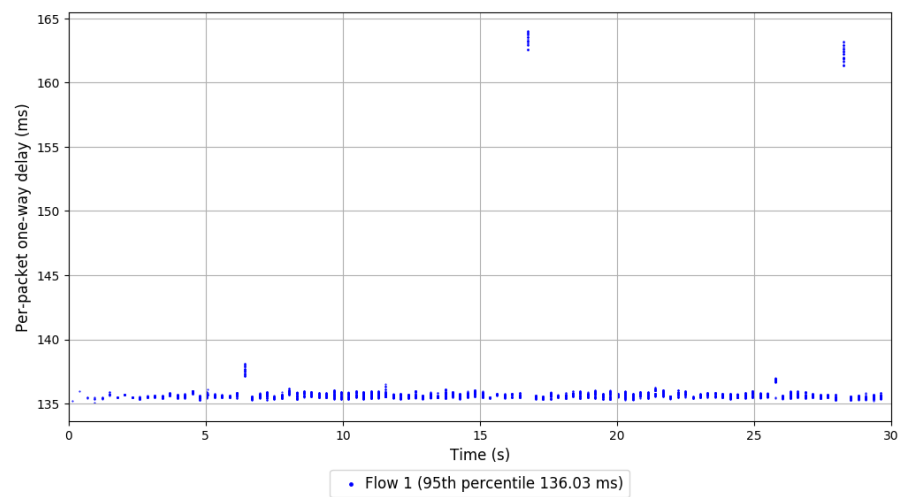
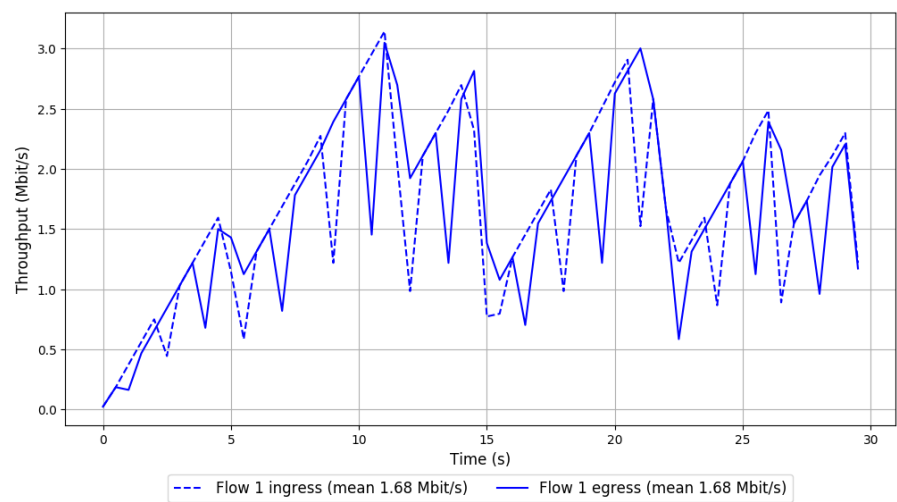
-- Flow 1:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 136.028 ms

Loss rate: 1.22%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 16:55:32

End at: 2017-11-30 16:56:02

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 136.582 ms

Loss rate: 1.27%

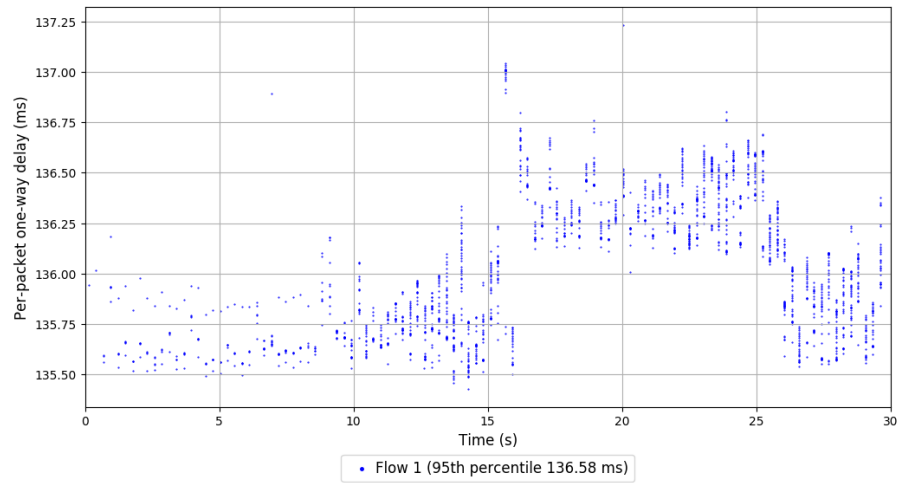
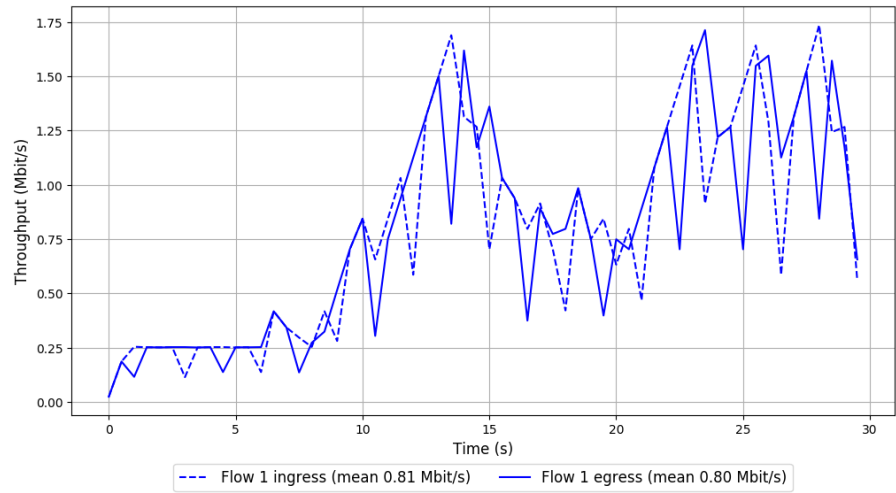
-- Flow 1:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 136.582 ms

Loss rate: 1.27%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-30 17:07:09

End at: 2017-11-30 17:07:39

Below is generated by plot.py at 2017-11-30 19:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 136.867 ms

Loss rate: 0.98%

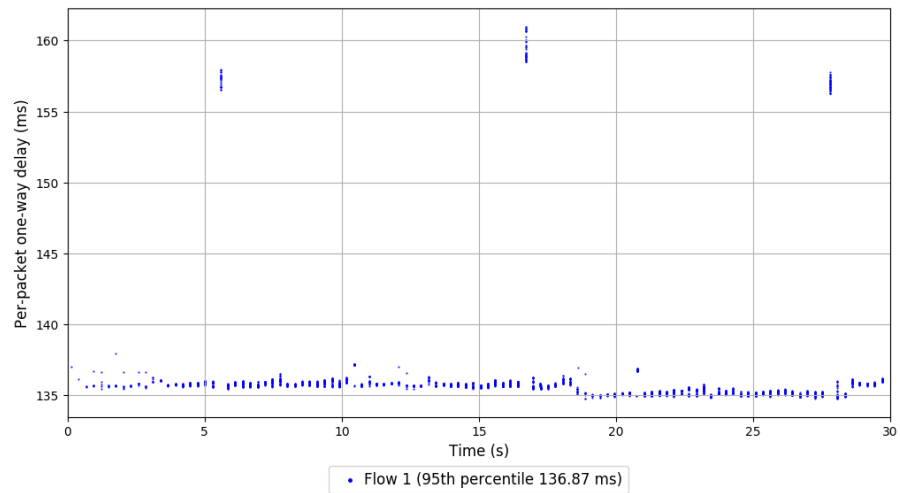
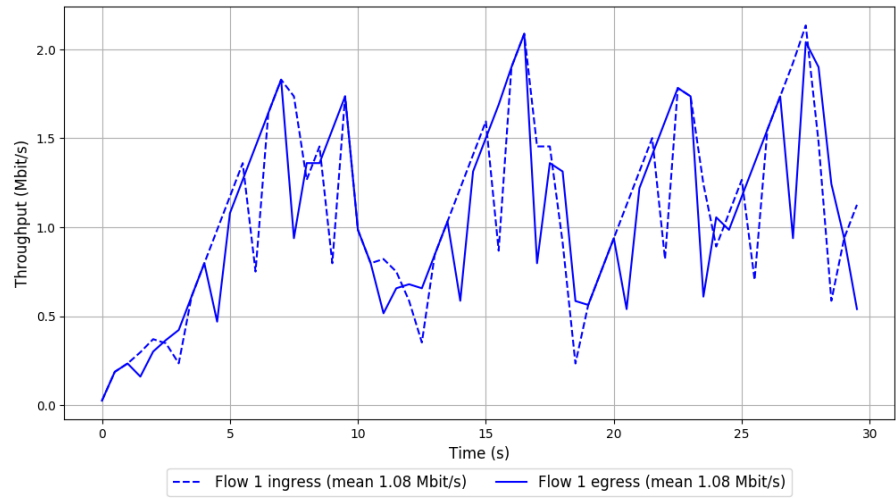
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 136.867 ms

Loss rate: 0.98%

Run 10: Report of LEDBAT — Data Link

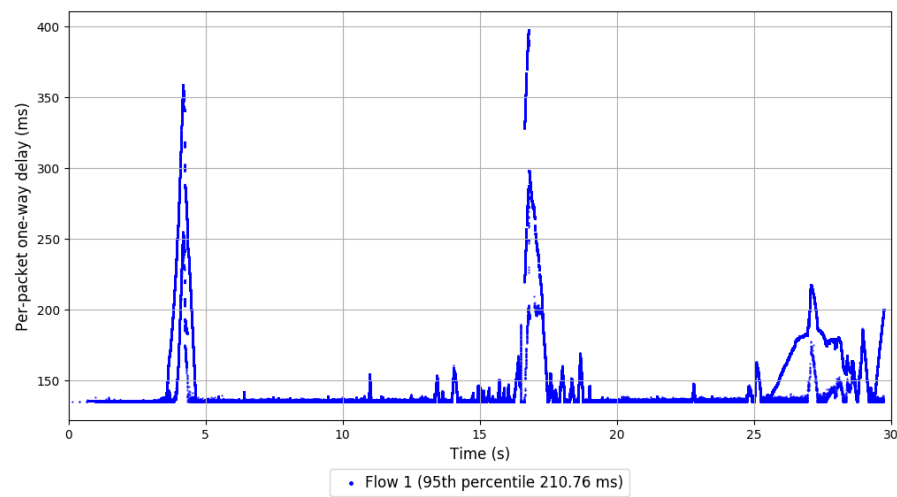
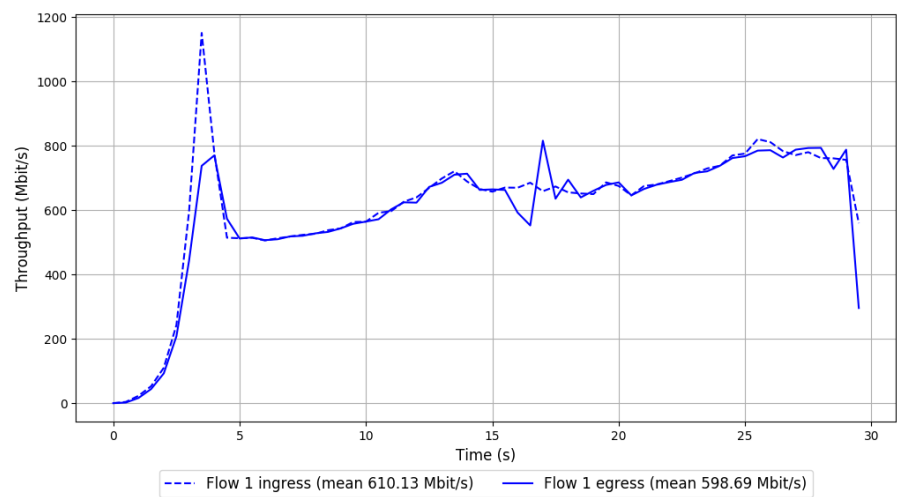


```
Run 1: Statistics of PCC

Start at: 2017-11-30 15:14:32
End at: 2017-11-30 15:15:02

# Below is generated by plot.py at 2017-11-30 19:14:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 598.69 Mbit/s
95th percentile per-packet one-way delay: 210.760 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 598.69 Mbit/s
95th percentile per-packet one-way delay: 210.760 ms
Loss rate: 2.77%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-30 15:25:42

End at: 2017-11-30 15:26:12

Below is generated by plot.py at 2017-11-30 19:14:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.91 Mbit/s

95th percentile per-packet one-way delay: 182.144 ms

Loss rate: 2.01%

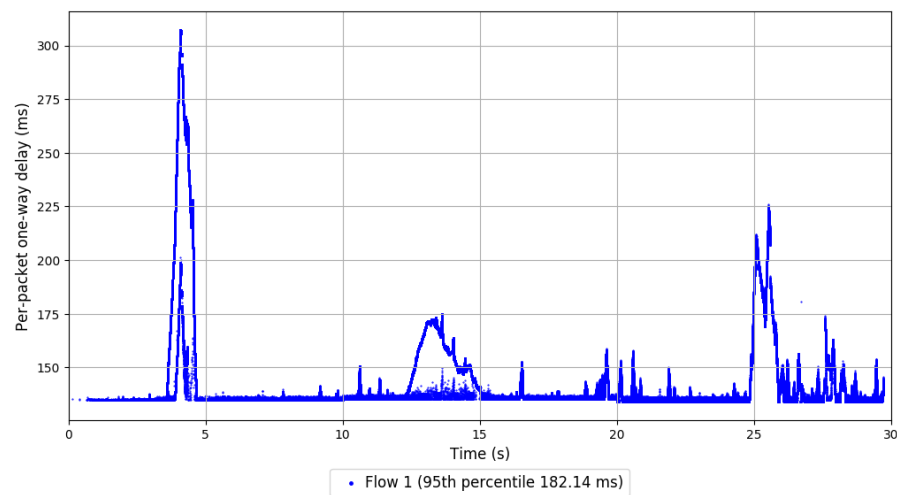
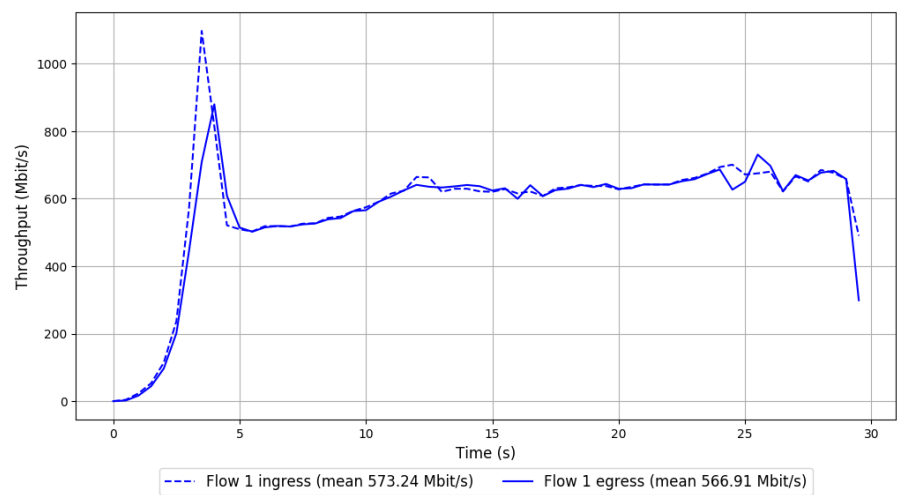
-- Flow 1:

Average throughput: 566.91 Mbit/s

95th percentile per-packet one-way delay: 182.144 ms

Loss rate: 2.01%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-30 15:37:13

End at: 2017-11-30 15:37:43

Below is generated by plot.py at 2017-11-30 19:14:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.74 Mbit/s

95th percentile per-packet one-way delay: 238.186 ms

Loss rate: 2.95%

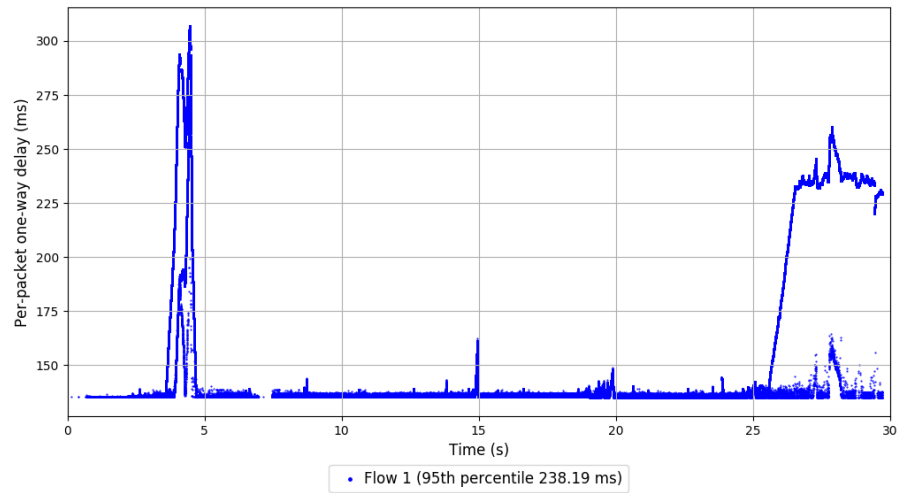
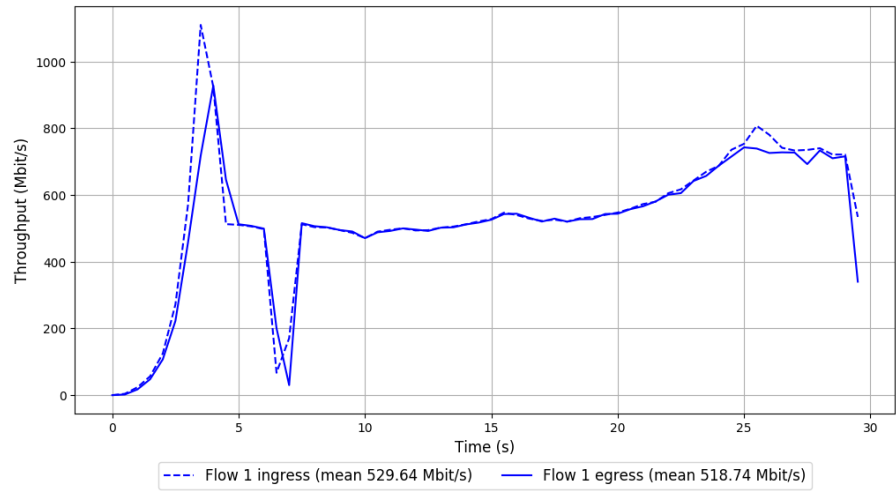
-- Flow 1:

Average throughput: 518.74 Mbit/s

95th percentile per-packet one-way delay: 238.186 ms

Loss rate: 2.95%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-30 15:48:48

End at: 2017-11-30 15:49:18

Below is generated by plot.py at 2017-11-30 19:14:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 574.78 Mbit/s

95th percentile per-packet one-way delay: 186.580 ms

Loss rate: 3.34%

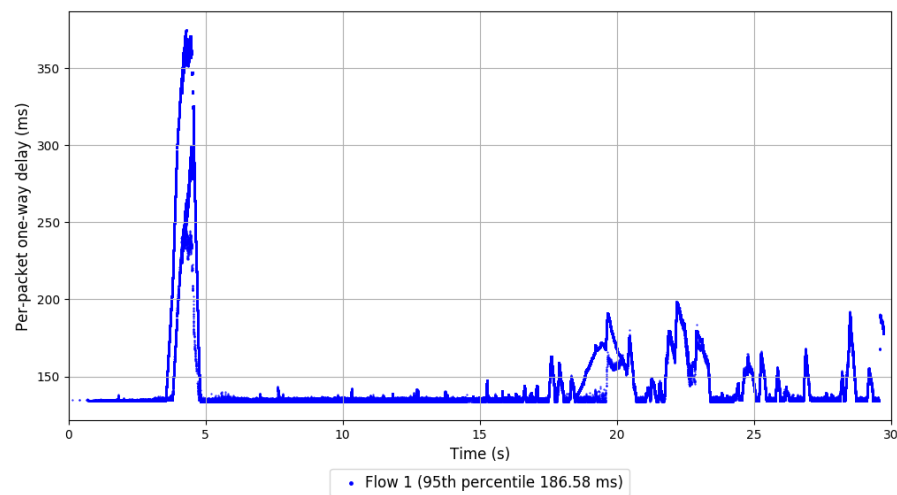
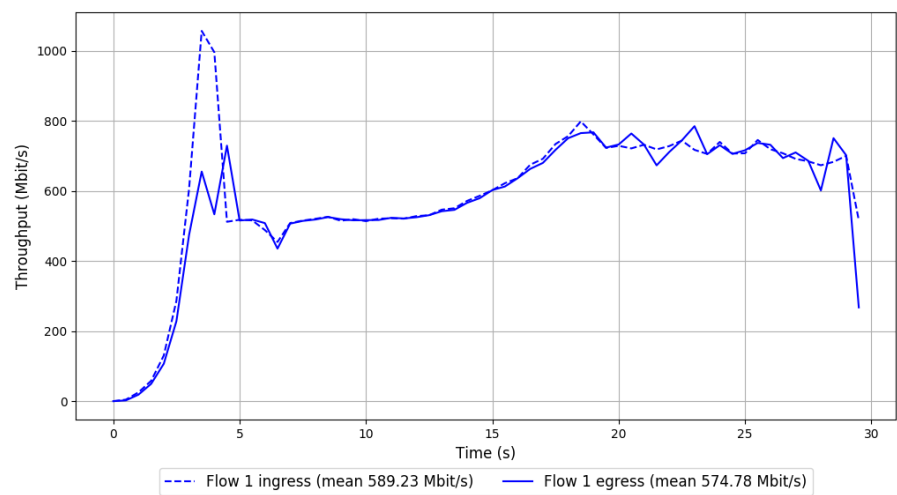
-- Flow 1:

Average throughput: 574.78 Mbit/s

95th percentile per-packet one-way delay: 186.580 ms

Loss rate: 3.34%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-30 16:00:26

End at: 2017-11-30 16:00:57

Below is generated by plot.py at 2017-11-30 19:14:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 598.24 Mbit/s

95th percentile per-packet one-way delay: 237.284 ms

Loss rate: 2.16%

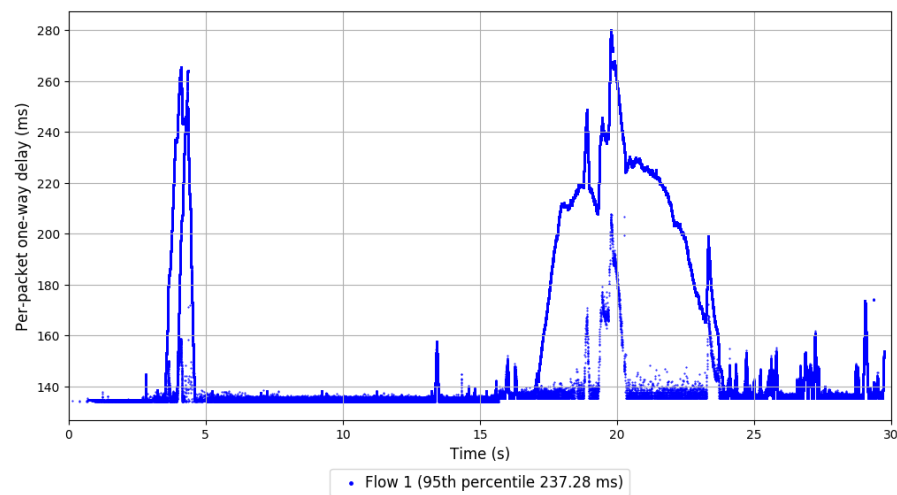
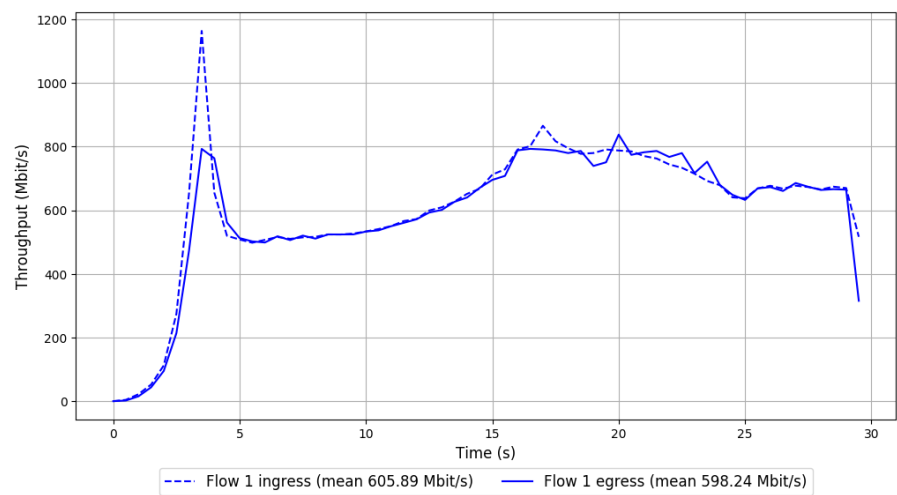
-- Flow 1:

Average throughput: 598.24 Mbit/s

95th percentile per-packet one-way delay: 237.284 ms

Loss rate: 2.16%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-30 16:11:58

End at: 2017-11-30 16:12:28

Below is generated by plot.py at 2017-11-30 19:14:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 544.90 Mbit/s

95th percentile per-packet one-way delay: 261.635 ms

Loss rate: 5.17%

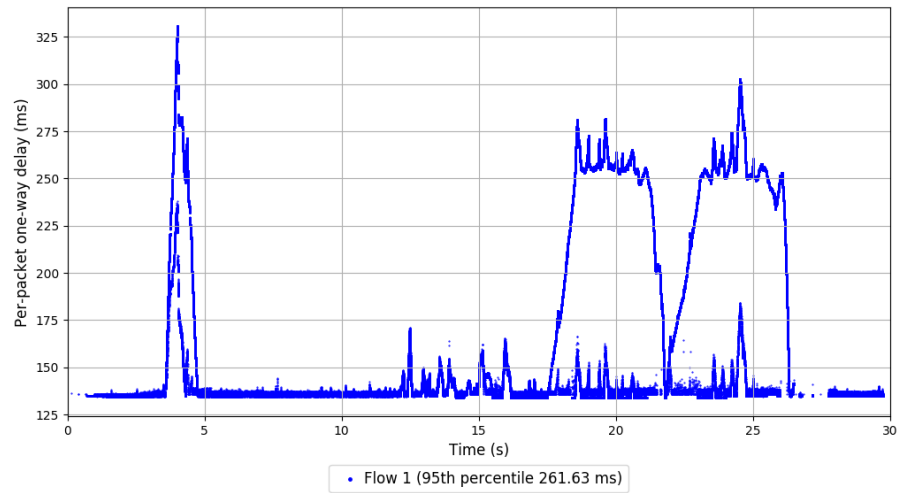
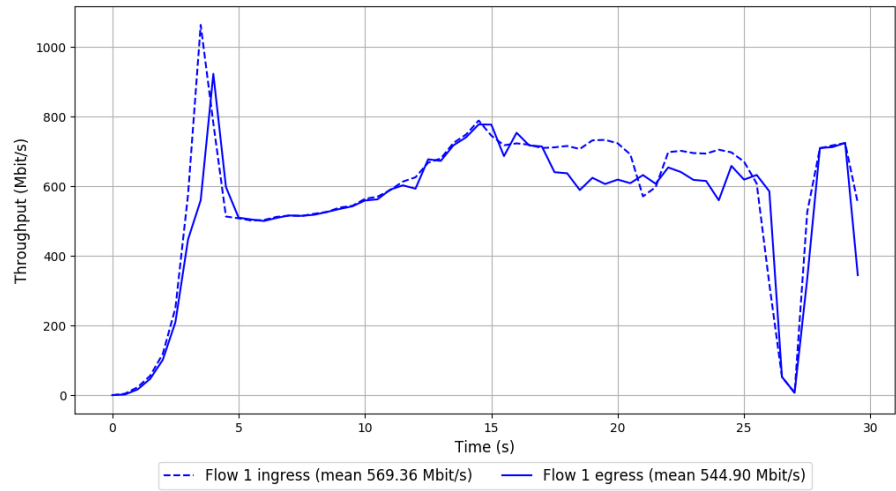
-- Flow 1:

Average throughput: 544.90 Mbit/s

95th percentile per-packet one-way delay: 261.635 ms

Loss rate: 5.17%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-30 16:23:32

End at: 2017-11-30 16:24:02

Below is generated by plot.py at 2017-11-30 19:14:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.80 Mbit/s

95th percentile per-packet one-way delay: 214.295 ms

Loss rate: 2.23%

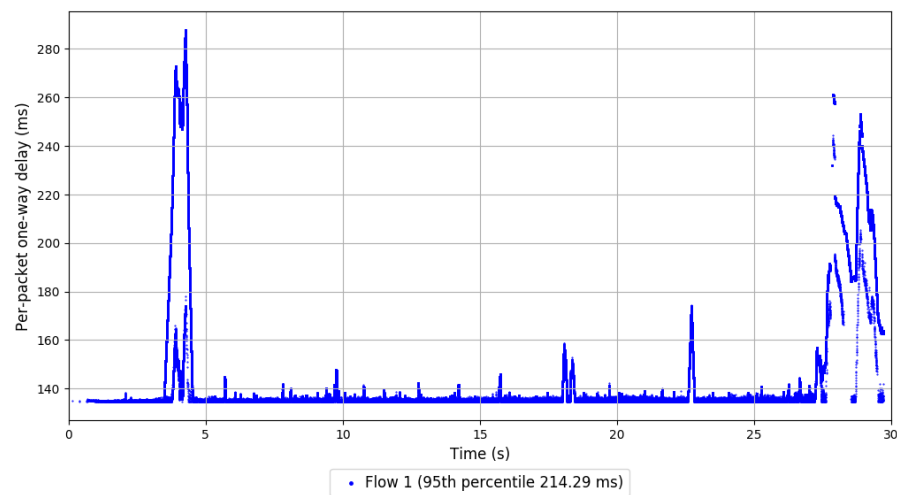
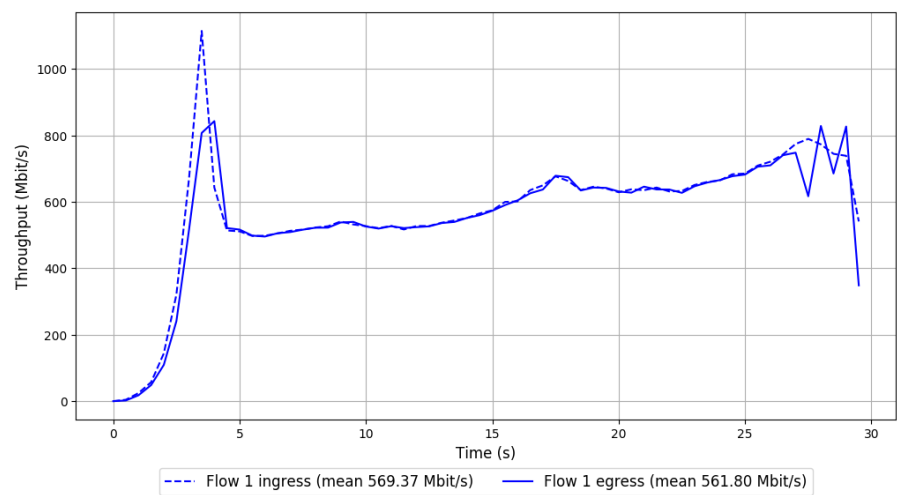
-- Flow 1:

Average throughput: 561.80 Mbit/s

95th percentile per-packet one-way delay: 214.295 ms

Loss rate: 2.23%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 16:35:02

End at: 2017-11-30 16:35:32

Below is generated by plot.py at 2017-11-30 19:14:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 558.11 Mbit/s

95th percentile per-packet one-way delay: 187.367 ms

Loss rate: 2.33%

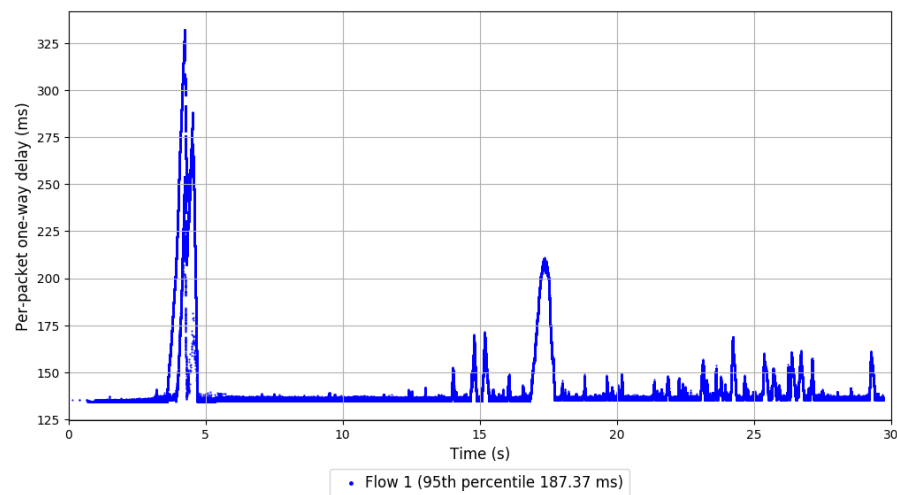
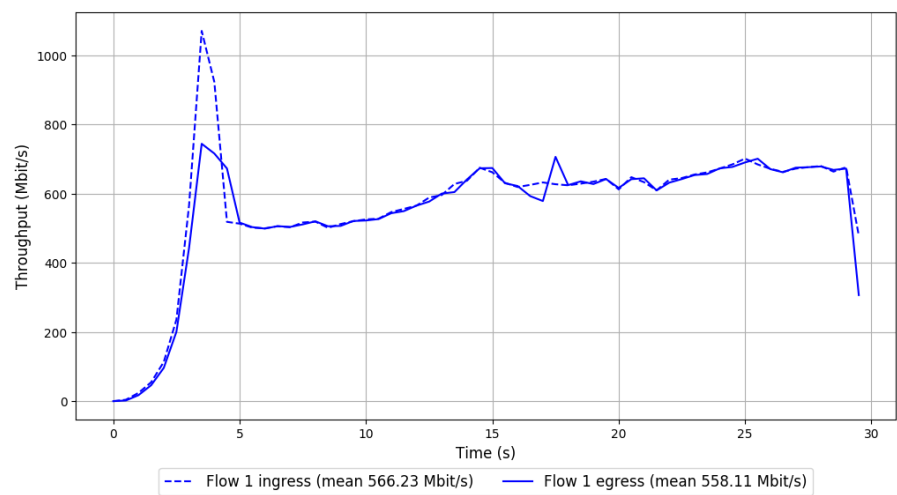
-- Flow 1:

Average throughput: 558.11 Mbit/s

95th percentile per-packet one-way delay: 187.367 ms

Loss rate: 2.33%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-30 16:46:24

End at: 2017-11-30 16:46:54

Below is generated by plot.py at 2017-11-30 19:23:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.12 Mbit/s

95th percentile per-packet one-way delay: 153.608 ms

Loss rate: 2.55%

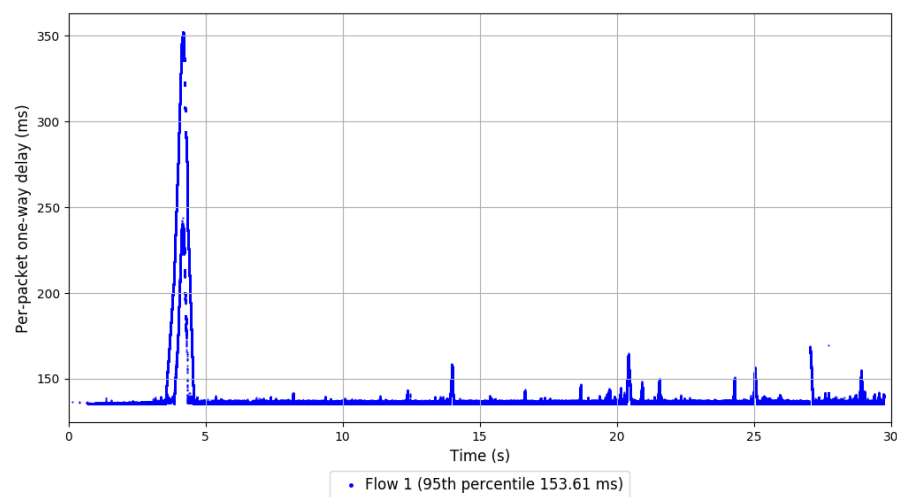
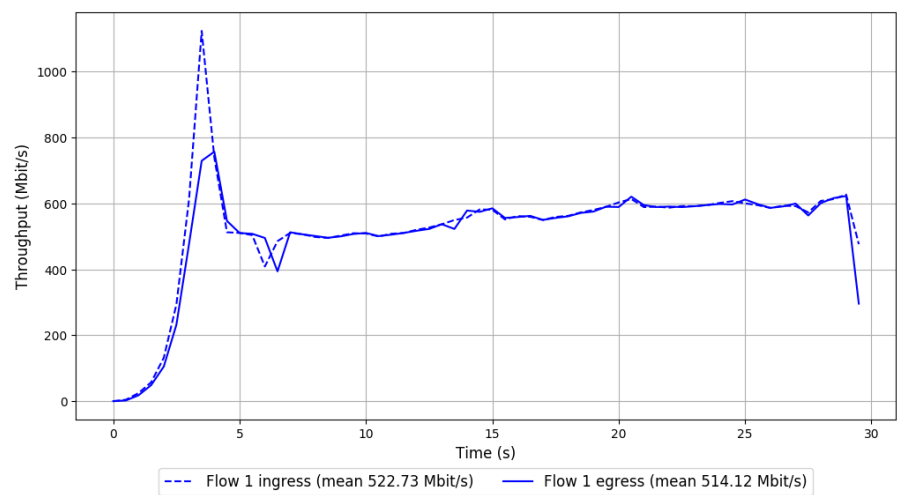
-- Flow 1:

Average throughput: 514.12 Mbit/s

95th percentile per-packet one-way delay: 153.608 ms

Loss rate: 2.55%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-30 16:57:50

End at: 2017-11-30 16:58:20

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.06 Mbit/s

95th percentile per-packet one-way delay: 258.501 ms

Loss rate: 4.33%

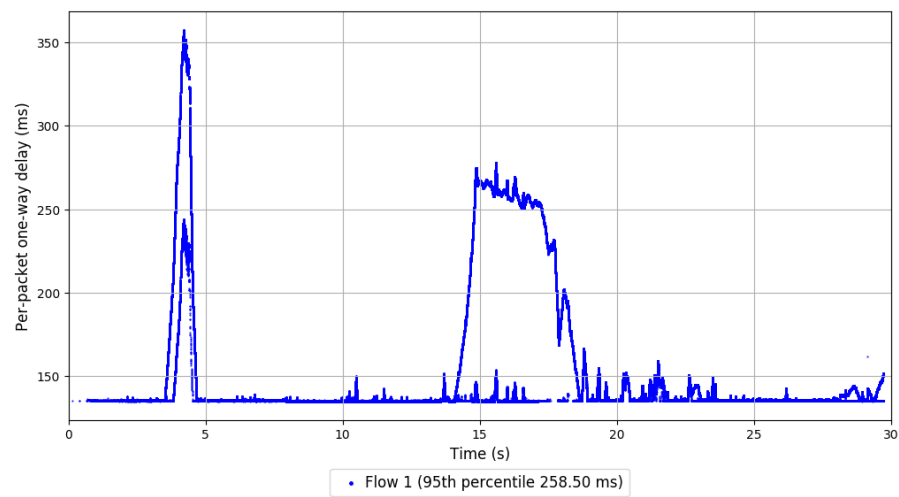
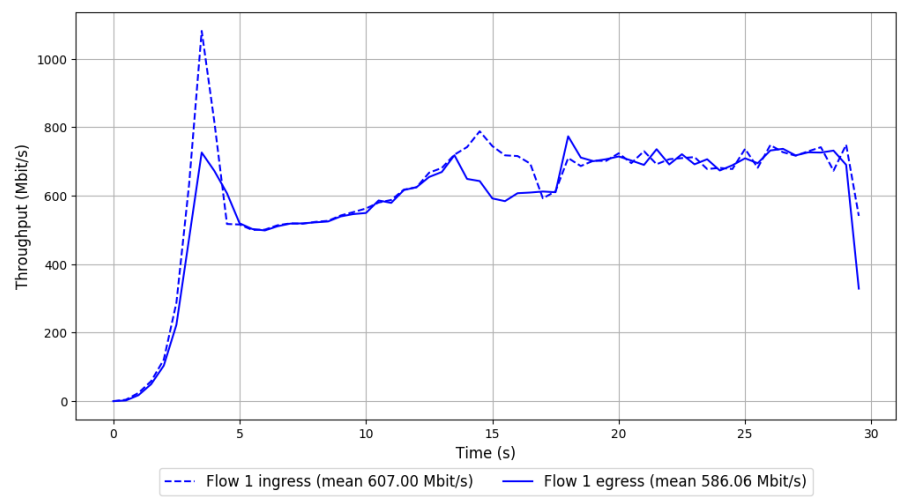
-- Flow 1:

Average throughput: 586.06 Mbit/s

95th percentile per-packet one-way delay: 258.501 ms

Loss rate: 4.33%

Run 10: Report of PCC — Data Link

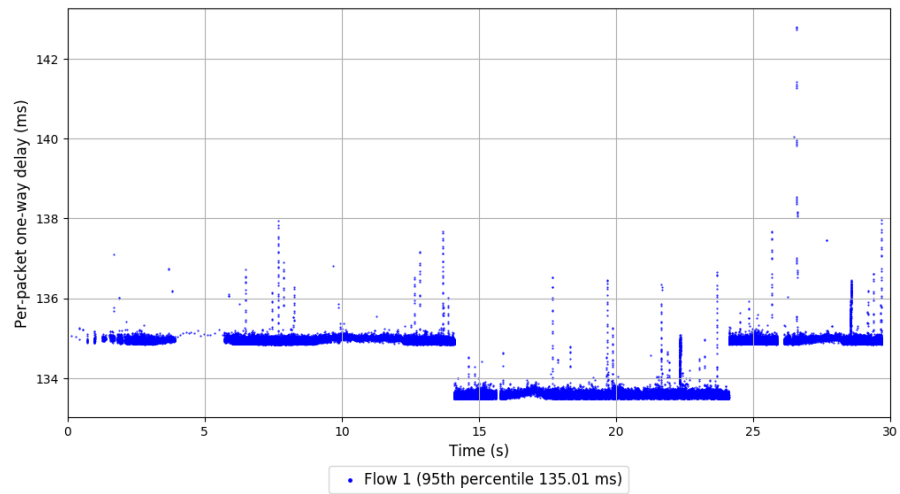
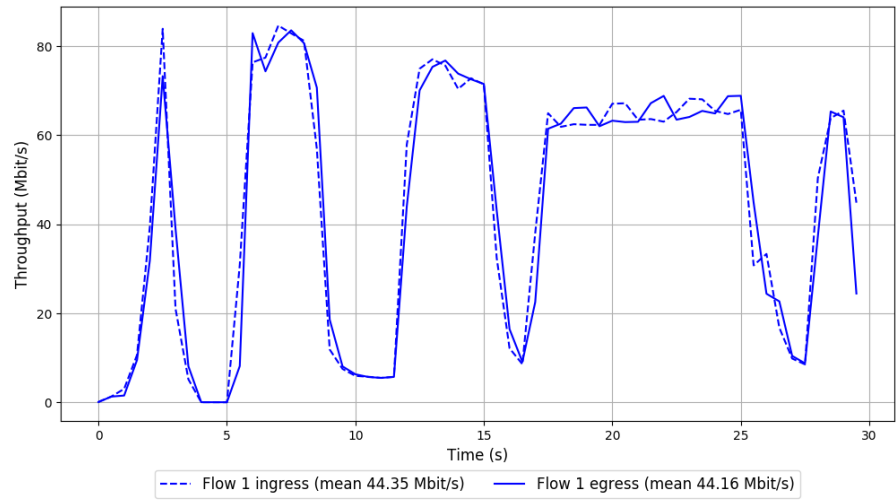


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 15:12:58
End at: 2017-11-30 15:13:28

# Below is generated by plot.py at 2017-11-30 19:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.16 Mbit/s
95th percentile per-packet one-way delay: 135.006 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 44.16 Mbit/s
95th percentile per-packet one-way delay: 135.006 ms
Loss rate: 1.35%
```


Run 1: Report of QUIC Cubic — Data Link

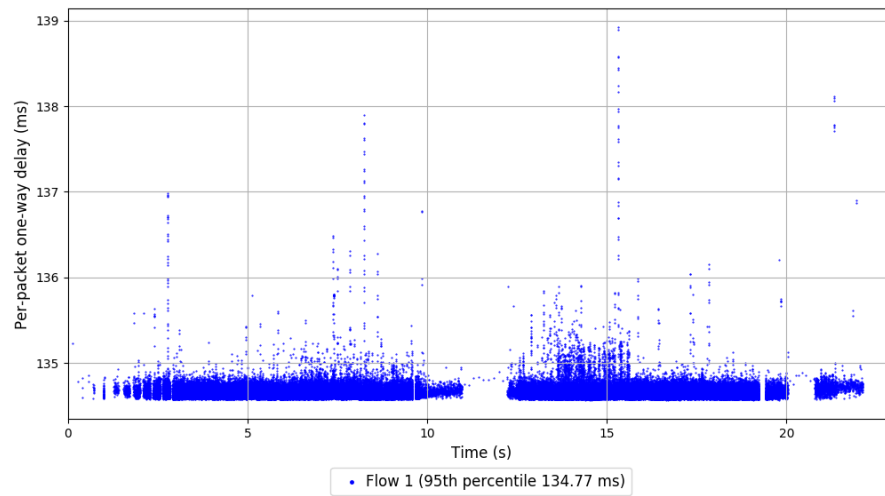
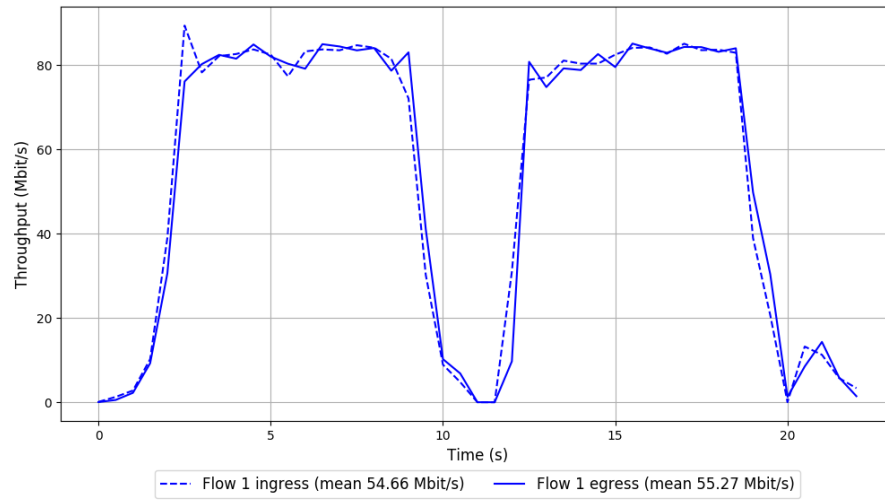


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 15:24:08

End at: 2017-11-30 15:24:38

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 15:35:39

End at: 2017-11-30 15:36:09

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 135.313 ms

Loss rate: 1.23%

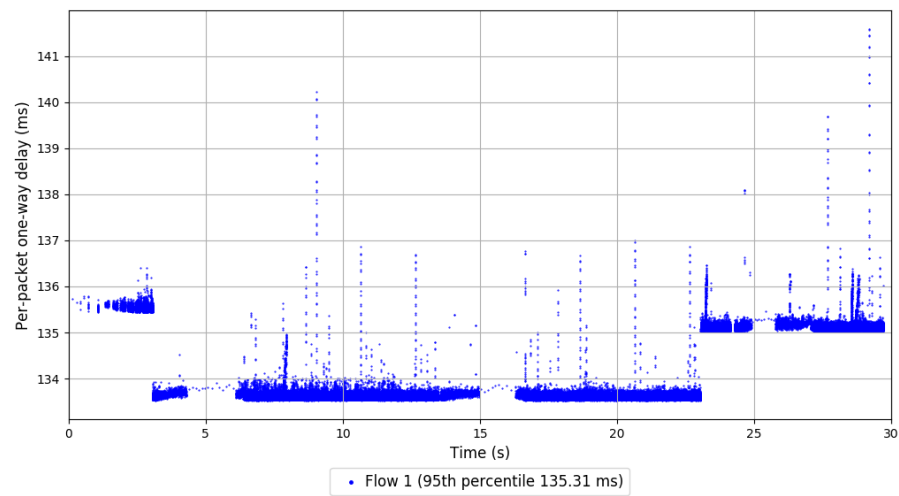
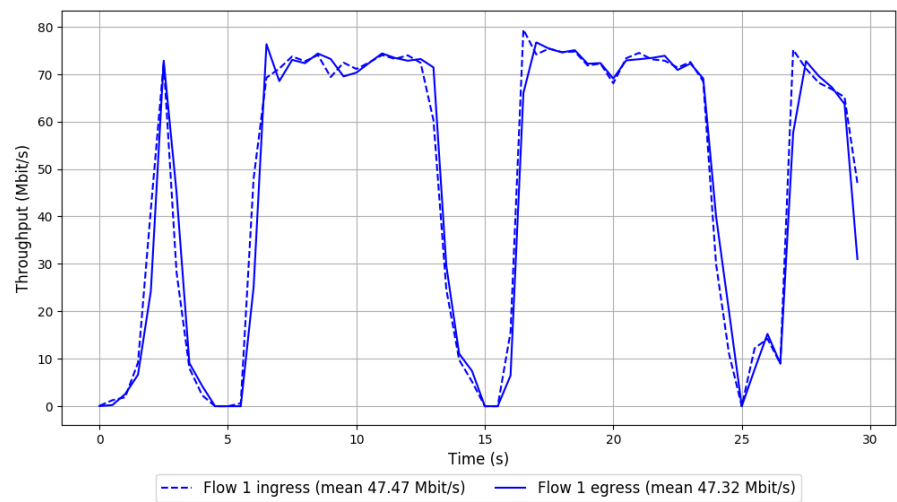
-- Flow 1:

Average throughput: 47.32 Mbit/s

95th percentile per-packet one-way delay: 135.313 ms

Loss rate: 1.23%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 15:47:13

End at: 2017-11-30 15:47:43

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 135.457 ms

Loss rate: 1.17%

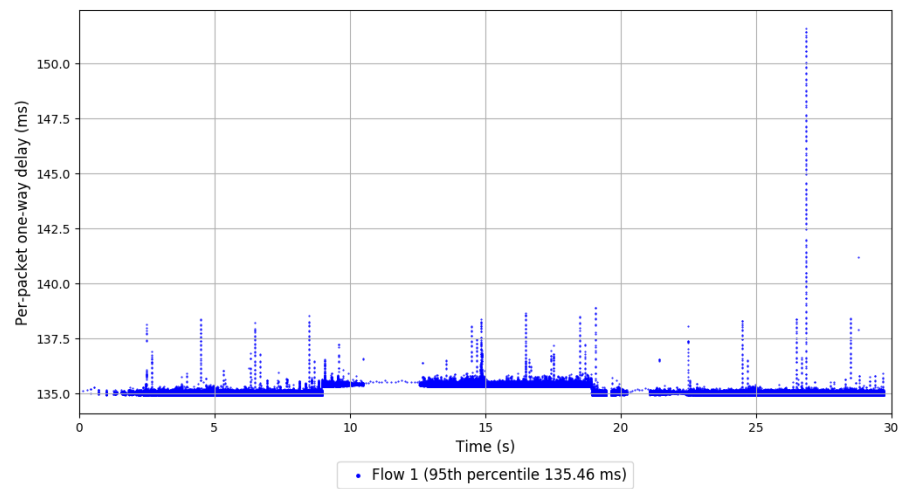
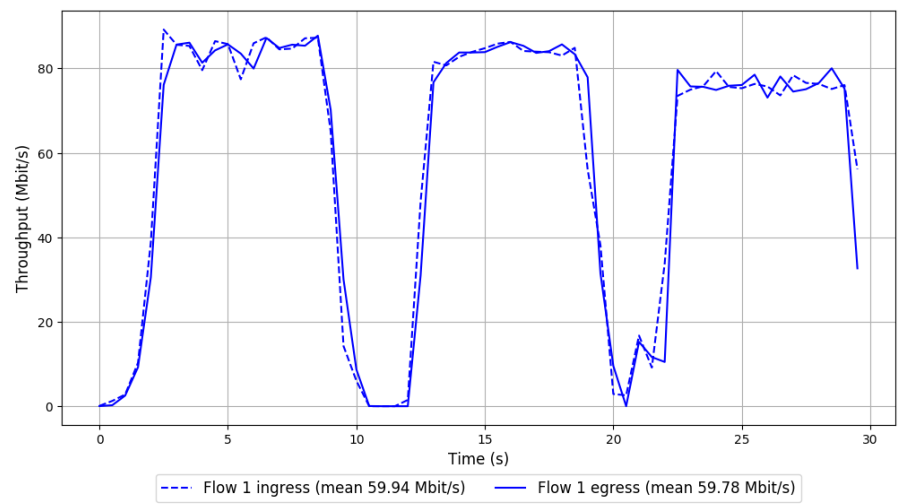
-- Flow 1:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 135.457 ms

Loss rate: 1.17%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 15:58:52

End at: 2017-11-30 15:59:22

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.04 Mbit/s

95th percentile per-packet one-way delay: 135.433 ms

Loss rate: 1.25%

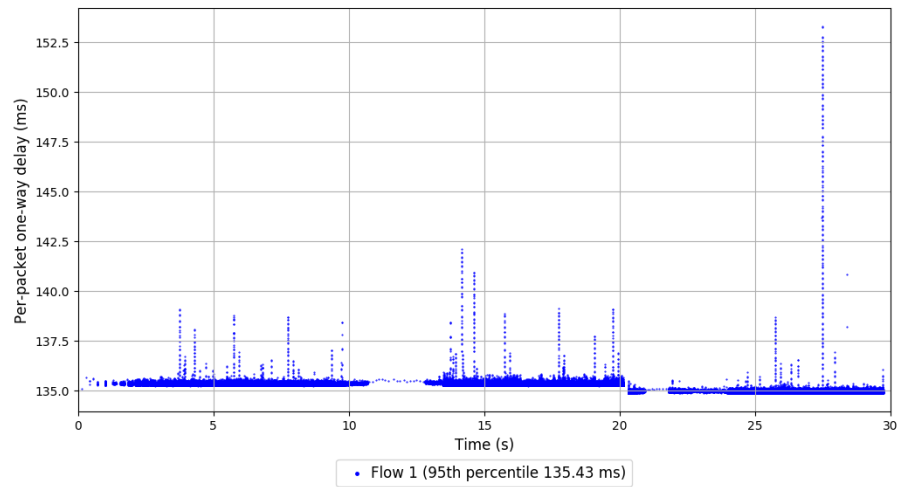
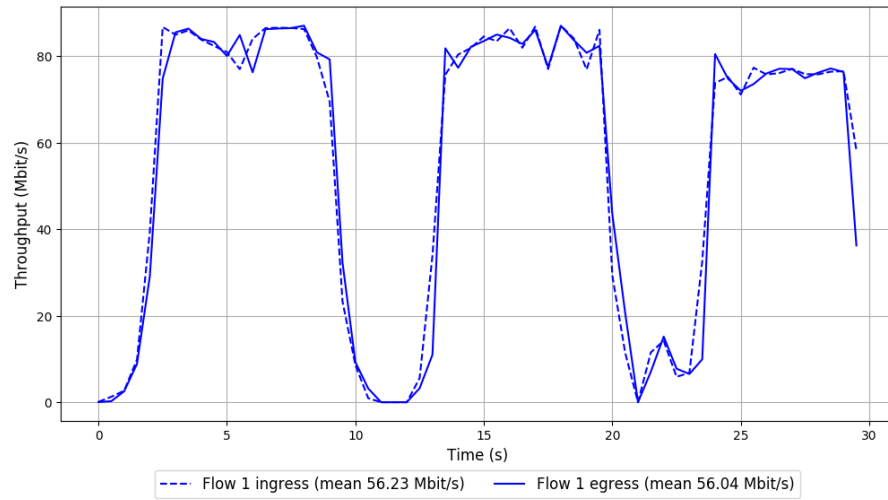
-- Flow 1:

Average throughput: 56.04 Mbit/s

95th percentile per-packet one-way delay: 135.433 ms

Loss rate: 1.25%

Run 5: Report of QUIC Cubic — Data Link

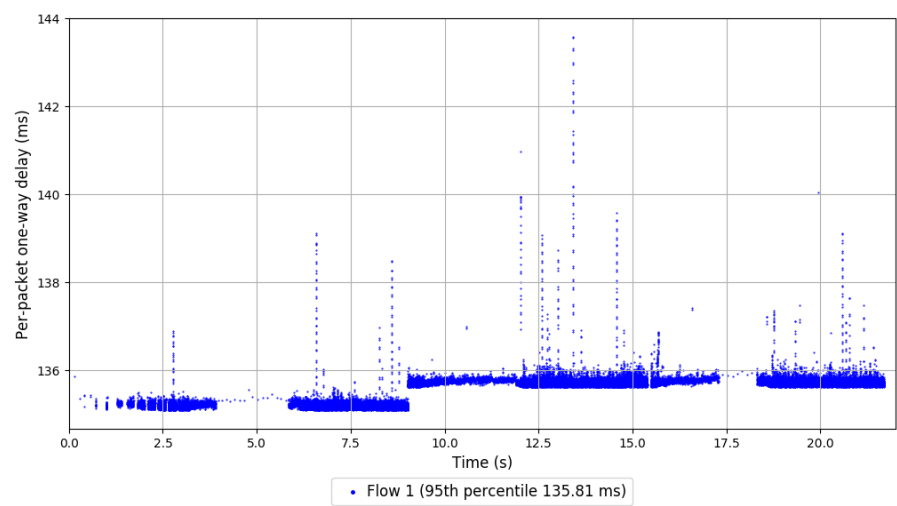
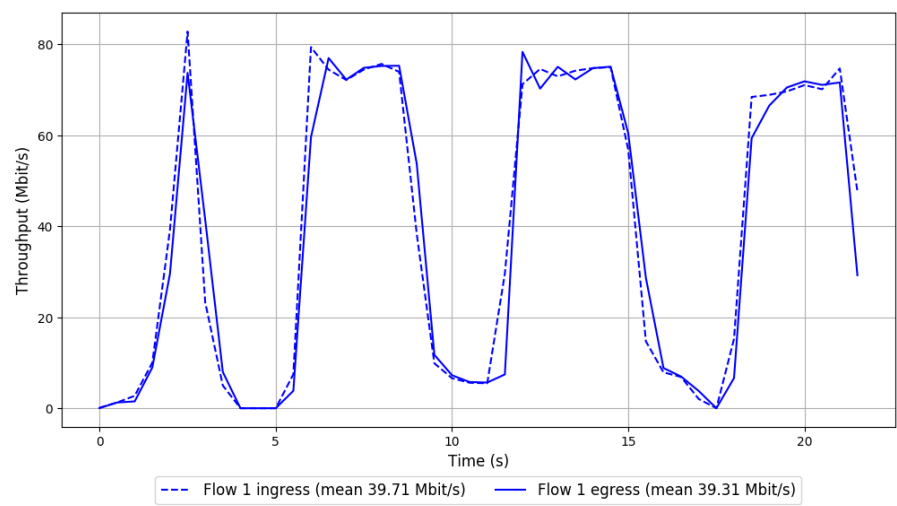


Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 16:10:25

End at: 2017-11-30 16:10:55

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 16:21:58

End at: 2017-11-30 16:22:28

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 135.974 ms

Loss rate: 1.42%

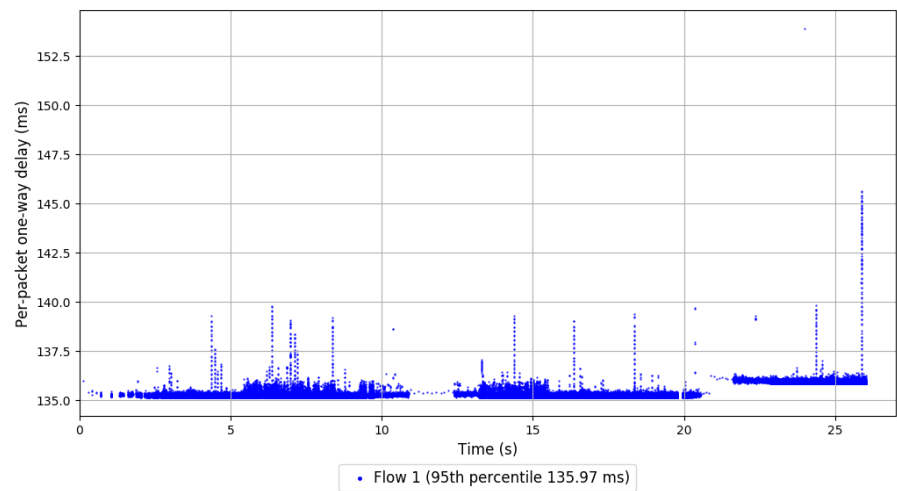
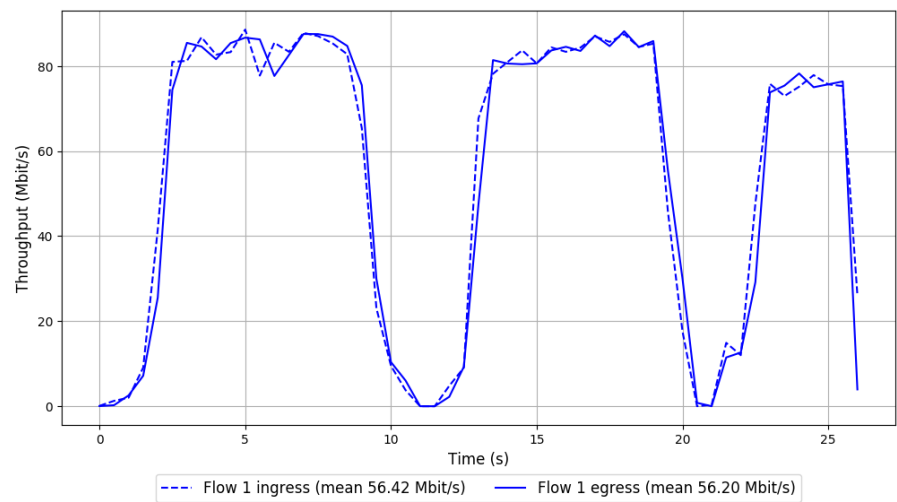
-- Flow 1:

Average throughput: 56.20 Mbit/s

95th percentile per-packet one-way delay: 135.974 ms

Loss rate: 1.42%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 16:33:28

End at: 2017-11-30 16:33:58

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 136.226 ms

Loss rate: 1.12%

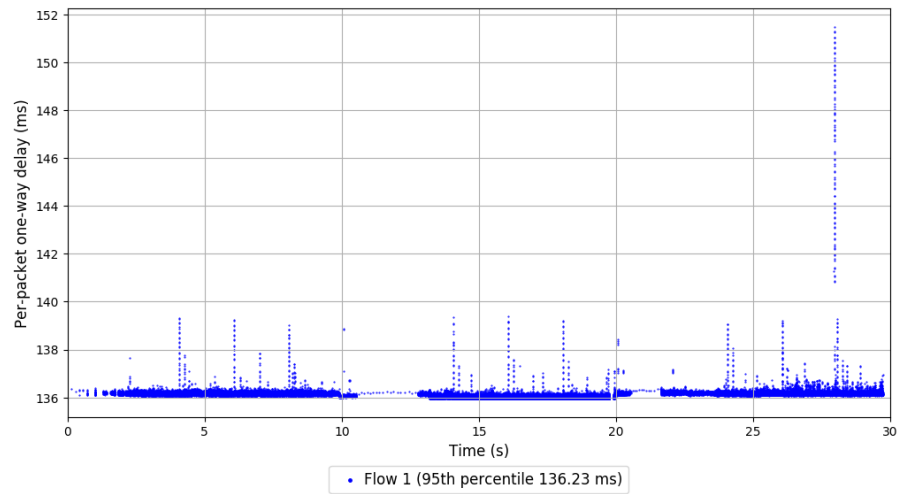
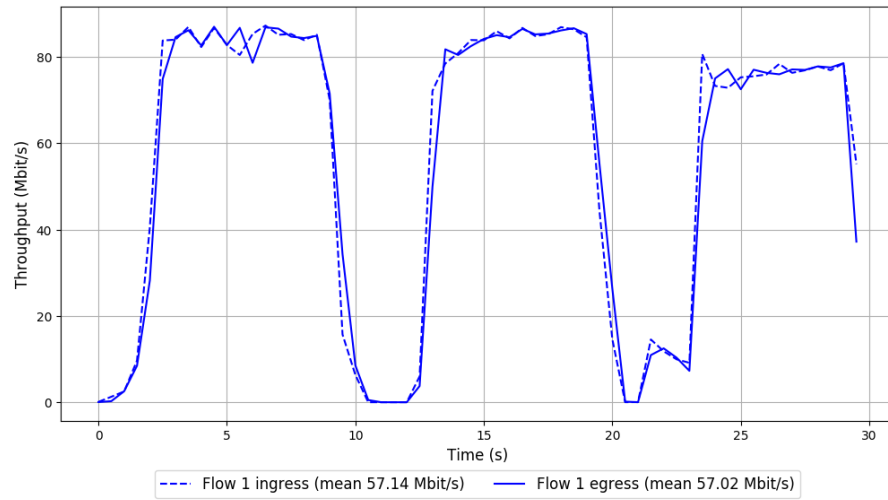
-- Flow 1:

Average throughput: 57.02 Mbit/s

95th percentile per-packet one-way delay: 136.226 ms

Loss rate: 1.12%

Run 8: Report of QUIC Cubic — Data Link

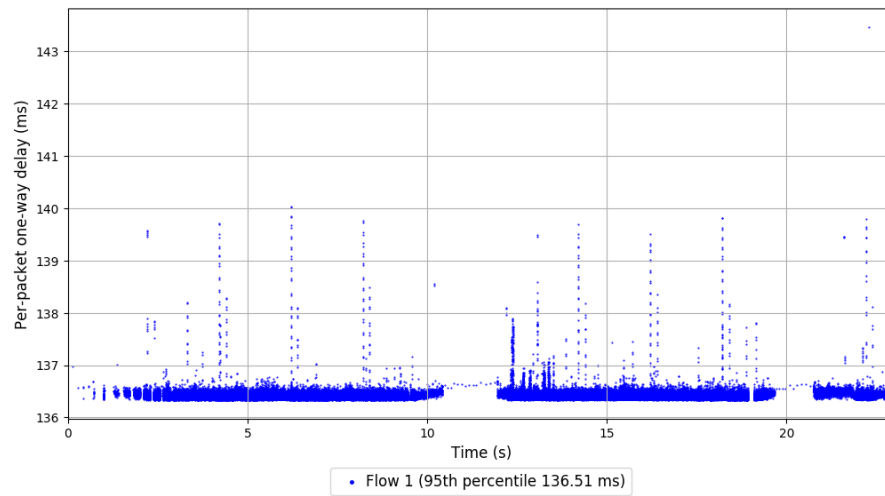
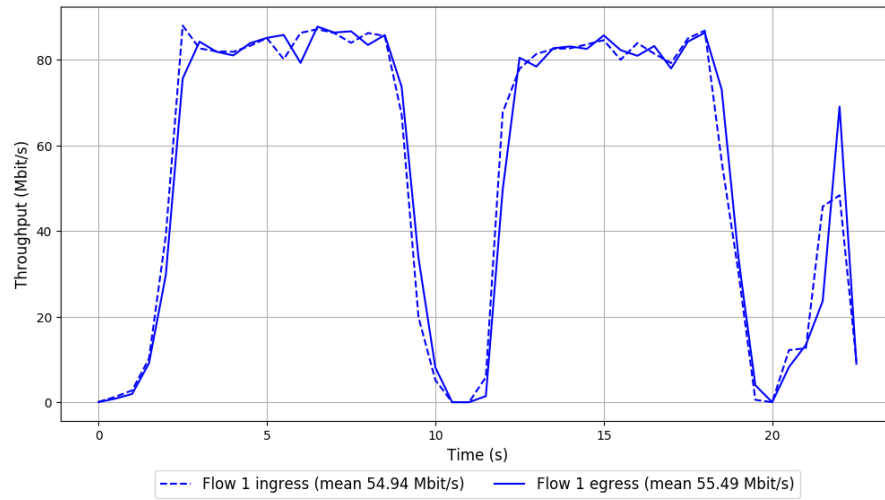


Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 16:44:51

End at: 2017-11-30 16:45:21

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 16:56:15

End at: 2017-11-30 16:56:45

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 136.481 ms

Loss rate: 1.15%

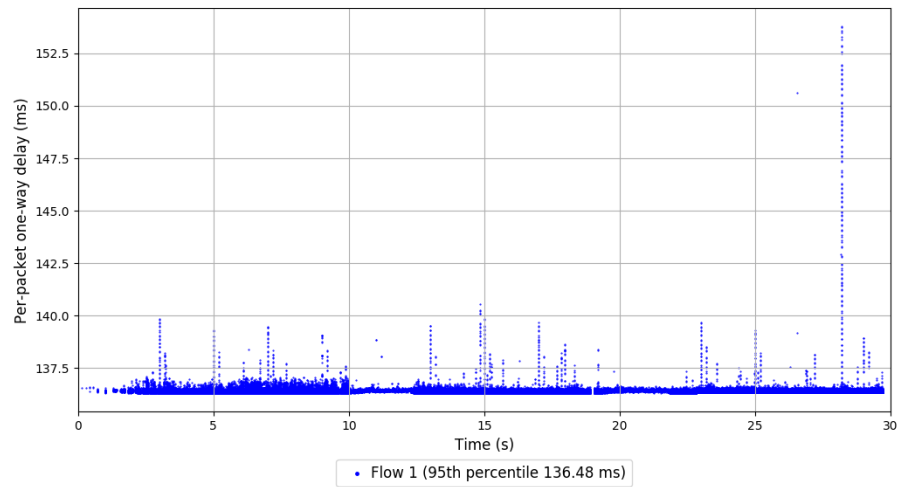
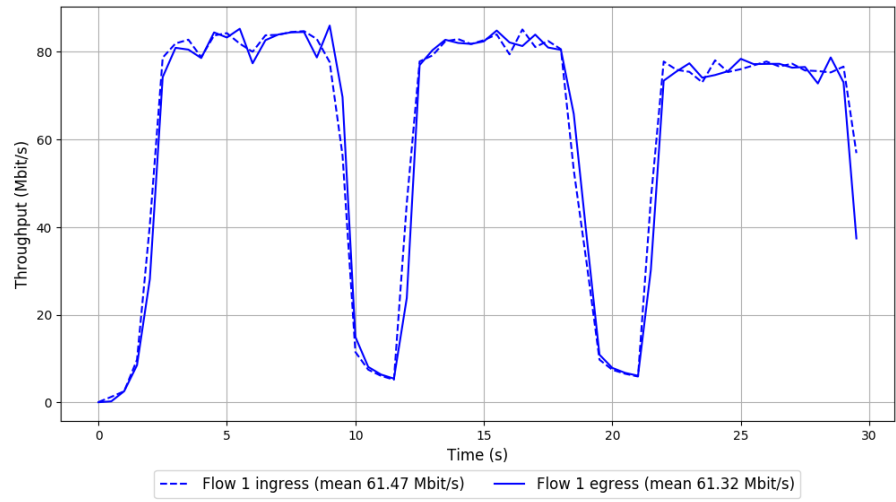
-- Flow 1:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 136.481 ms

Loss rate: 1.15%

Run 10: Report of QUIC Cubic — Data Link

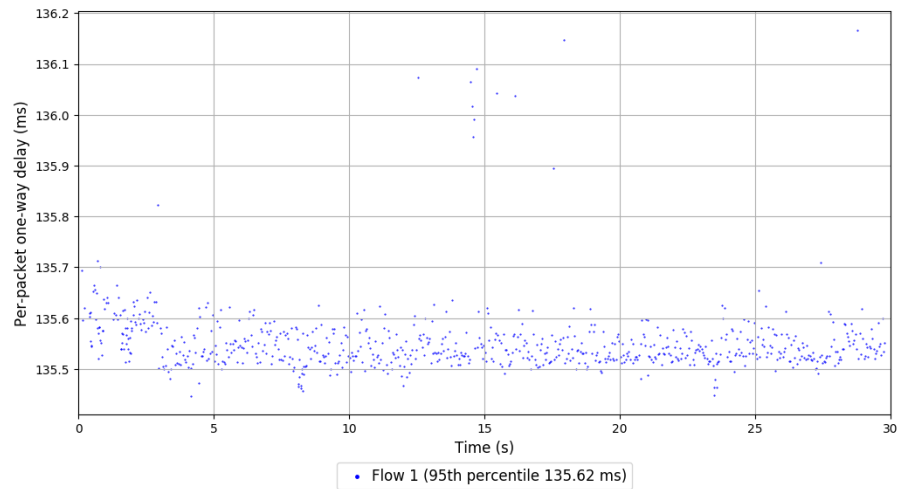
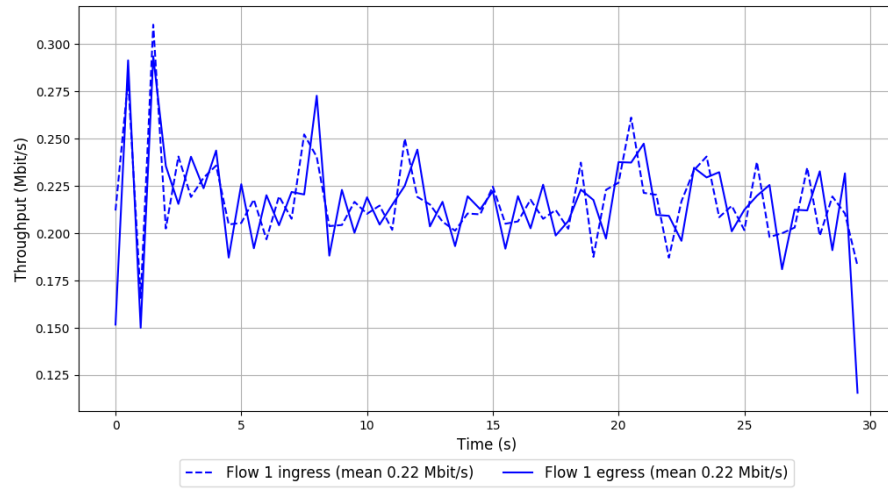


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 15:17:09
End at: 2017-11-30 15:17:39

# Below is generated by plot.py at 2017-11-30 19:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.623 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.623 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-11-30 15:28:40

End at: 2017-11-30 15:29:10

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.660 ms

Loss rate: 0.89%

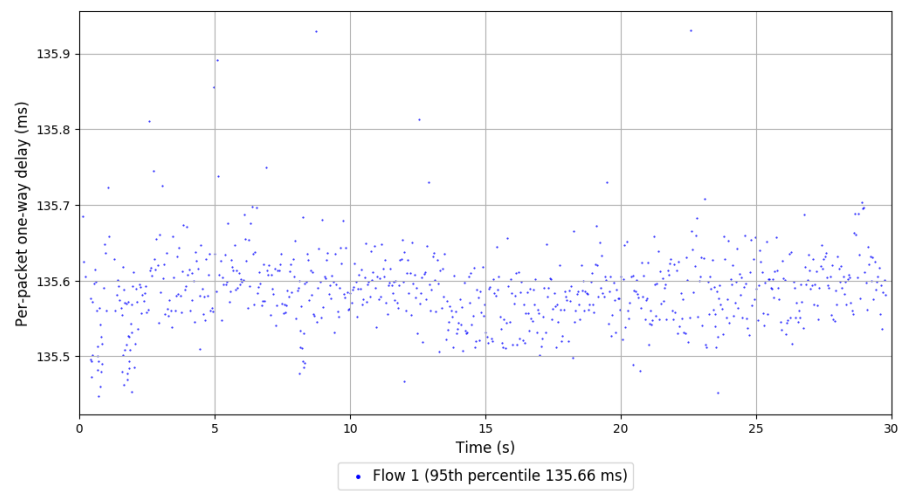
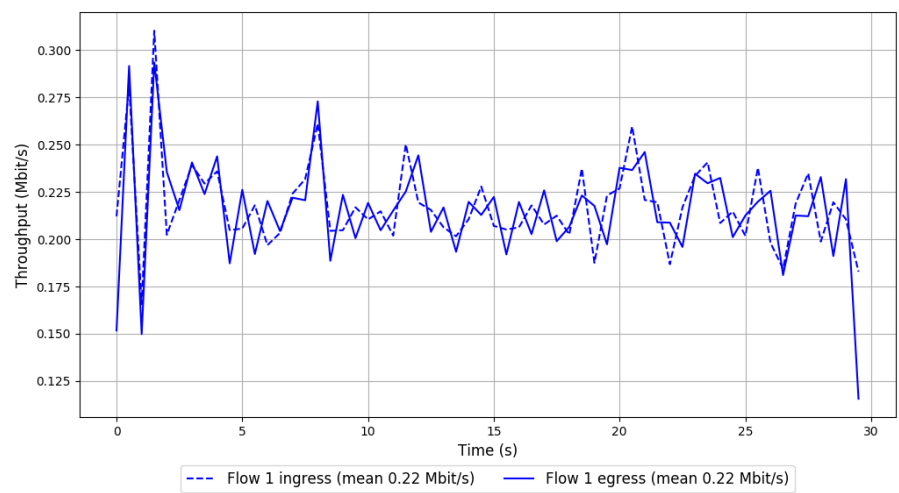
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.660 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-30 15:40:13

End at: 2017-11-30 15:40:43

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.033 ms

Loss rate: 0.89%

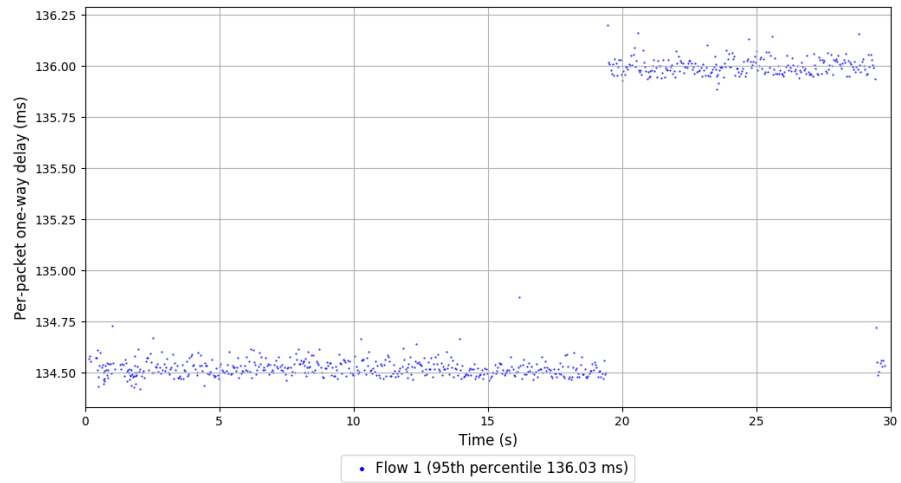
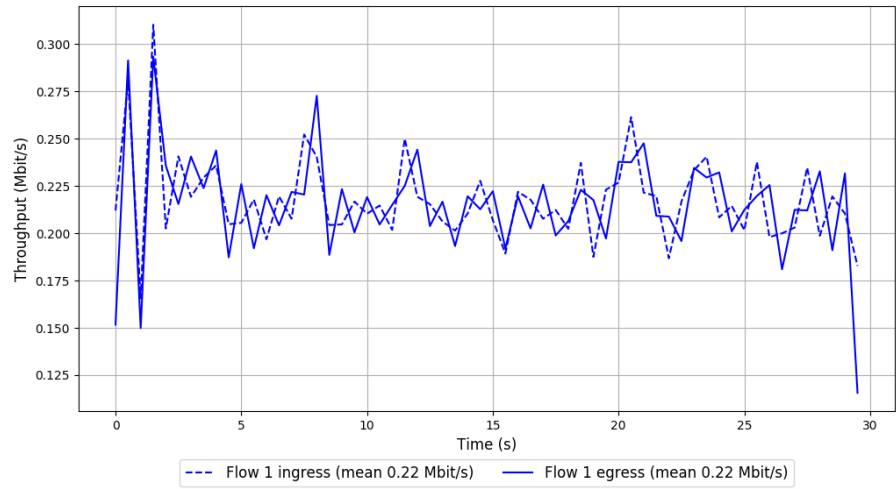
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.033 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-30 15:51:48

End at: 2017-11-30 15:52:18

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 0.89%

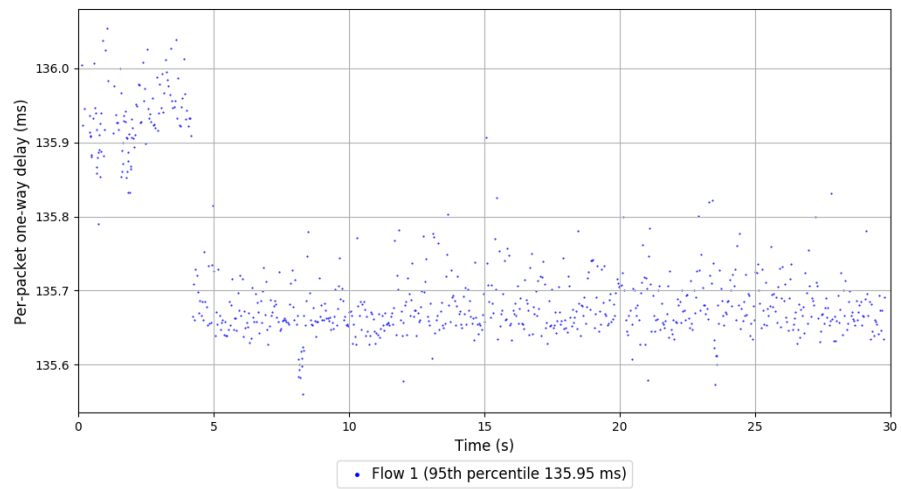
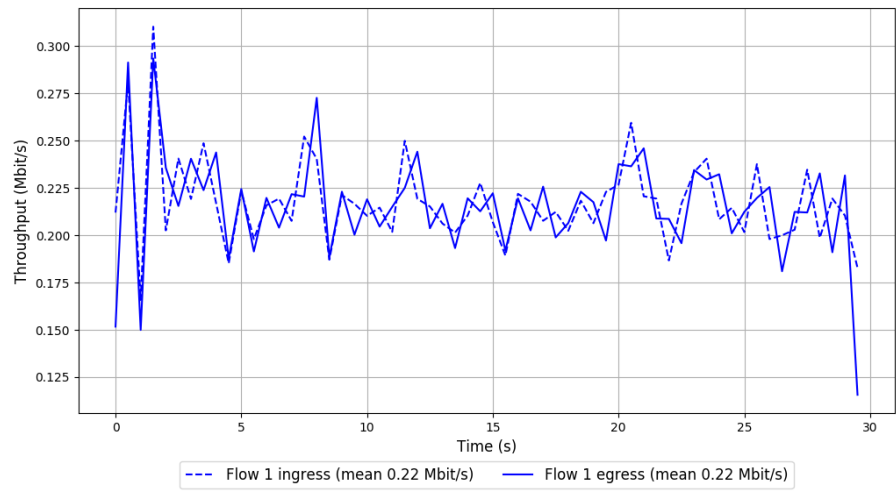
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-30 16:03:30

End at: 2017-11-30 16:04:00

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.846 ms

Loss rate: 0.89%

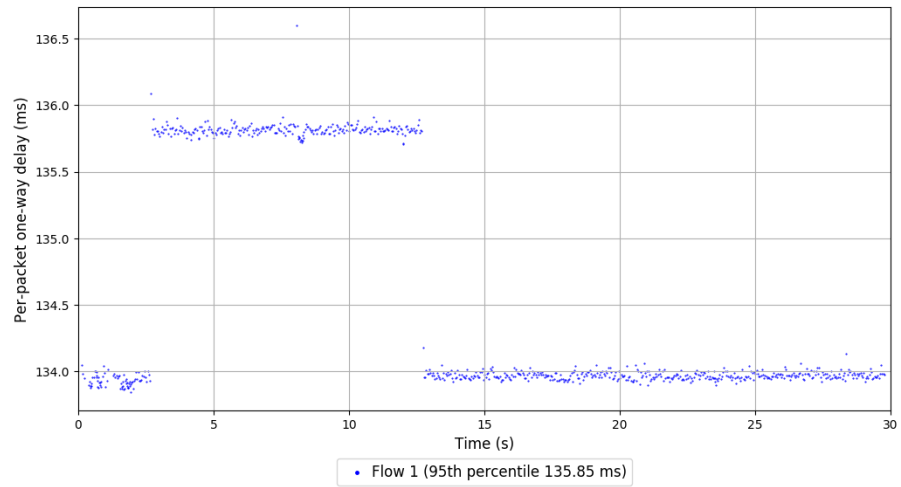
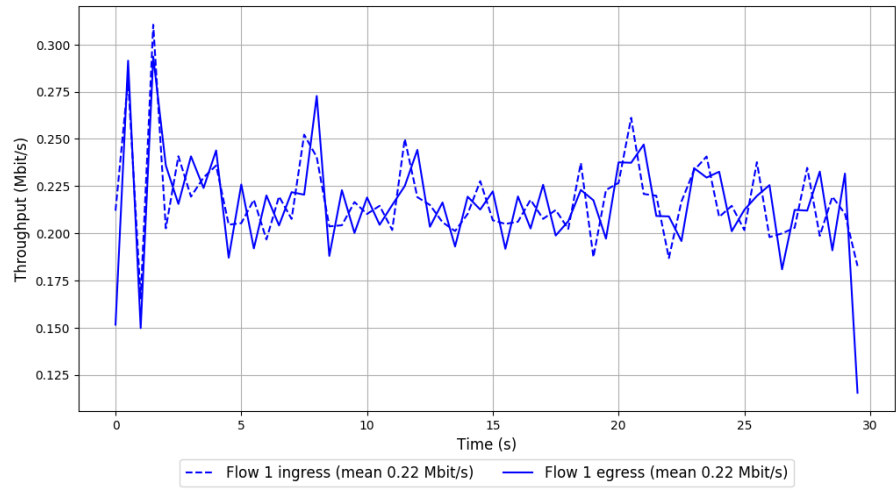
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.846 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-30 16:14:53

End at: 2017-11-30 16:15:23

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.033 ms

Loss rate: 0.89%

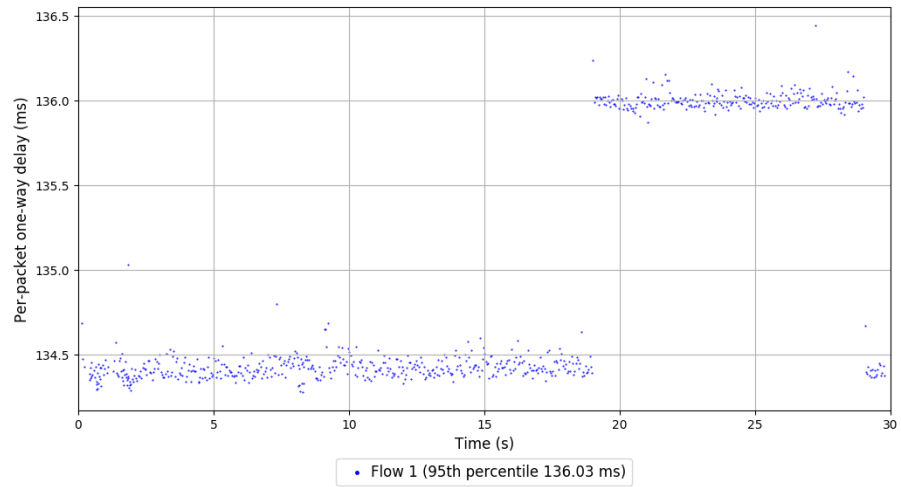
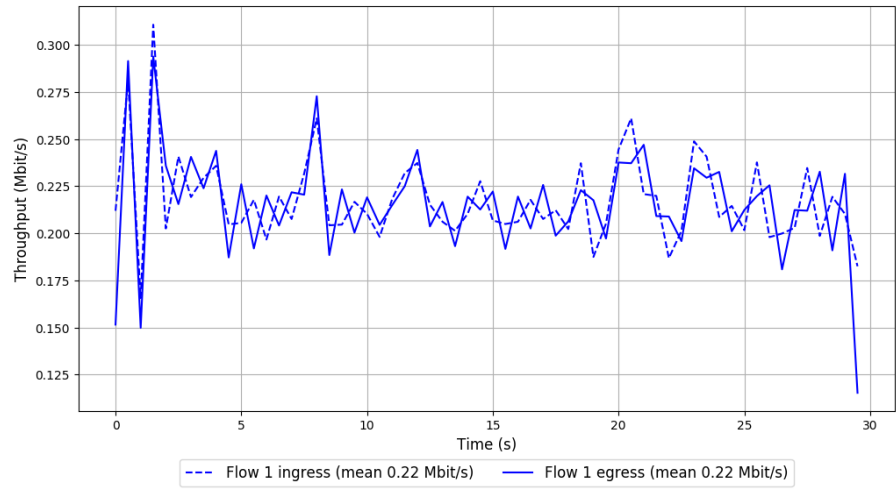
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.033 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-30 16:26:32

End at: 2017-11-30 16:27:02

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.992 ms

Loss rate: 0.89%

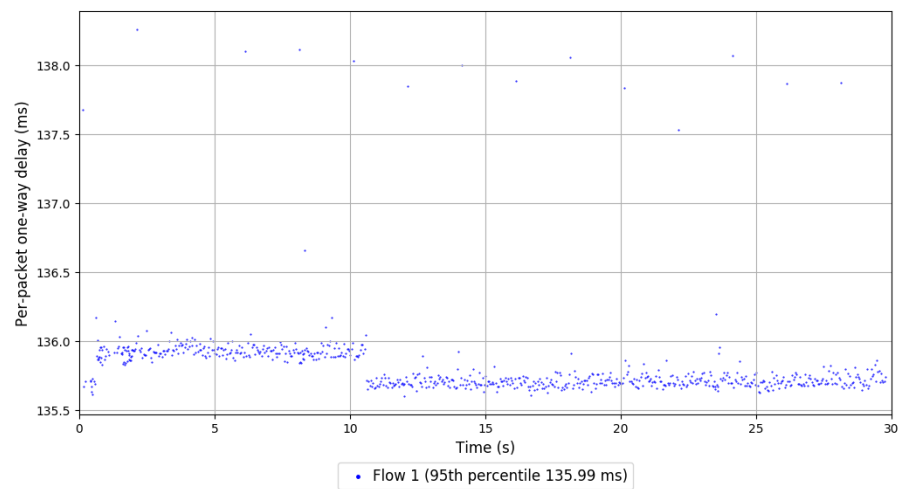
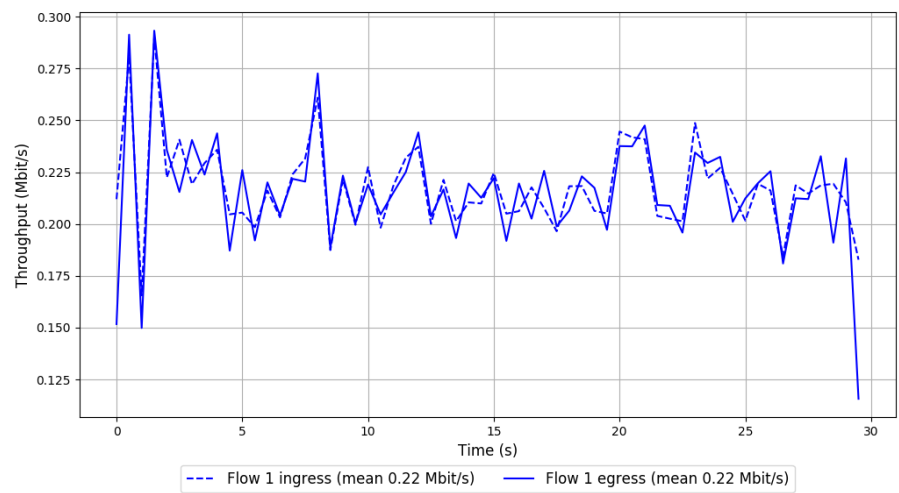
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.992 ms

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-30 16:37:54

End at: 2017-11-30 16:38:24

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.246 ms

Loss rate: 0.89%

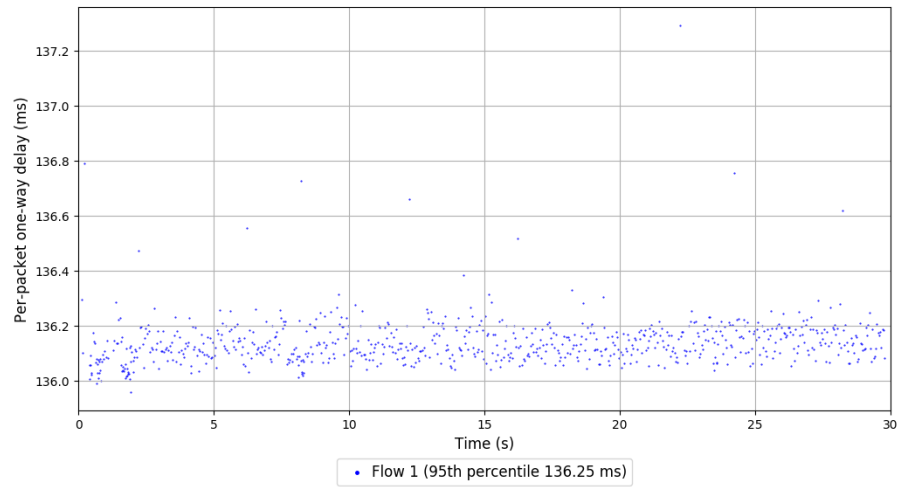
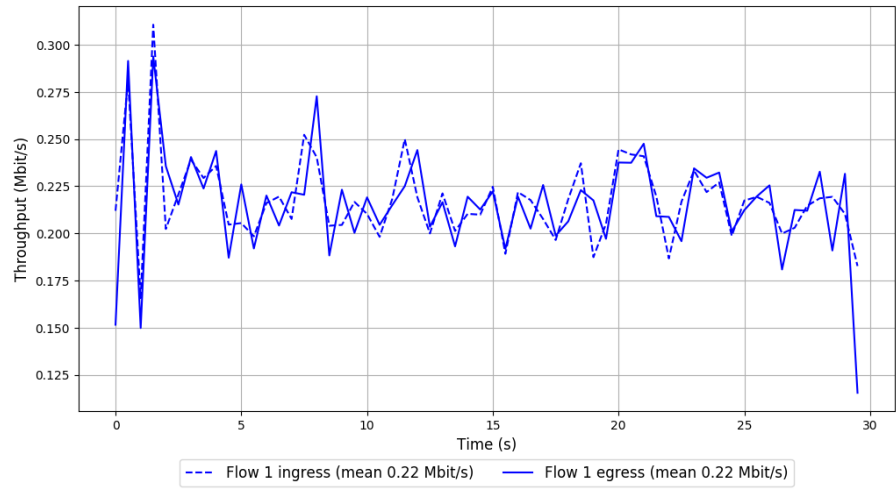
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.246 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-30 16:49:16

End at: 2017-11-30 16:49:46

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.506 ms

Loss rate: 0.89%

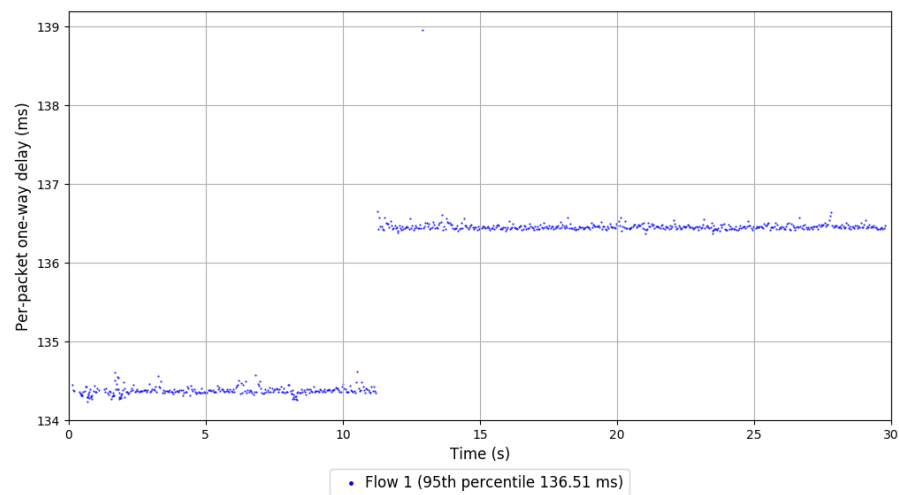
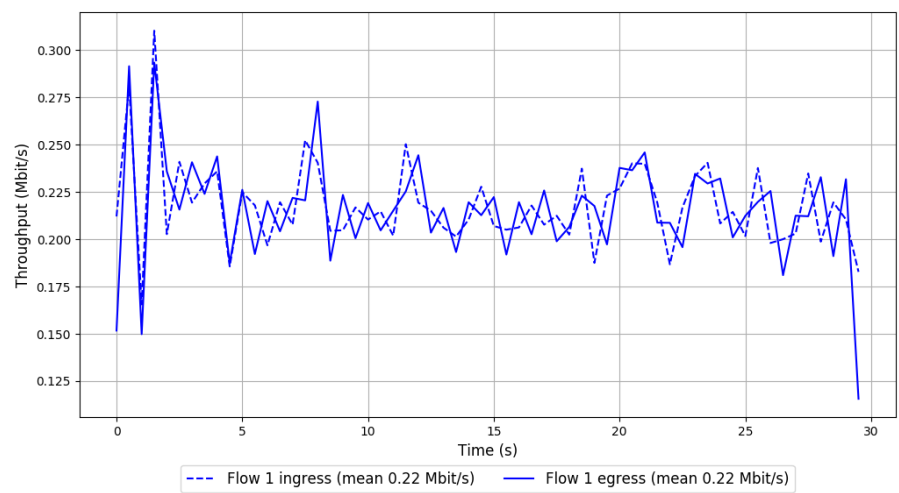
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.506 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-30 17:00:50

End at: 2017-11-30 17:01:20

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.833 ms

Loss rate: 0.89%

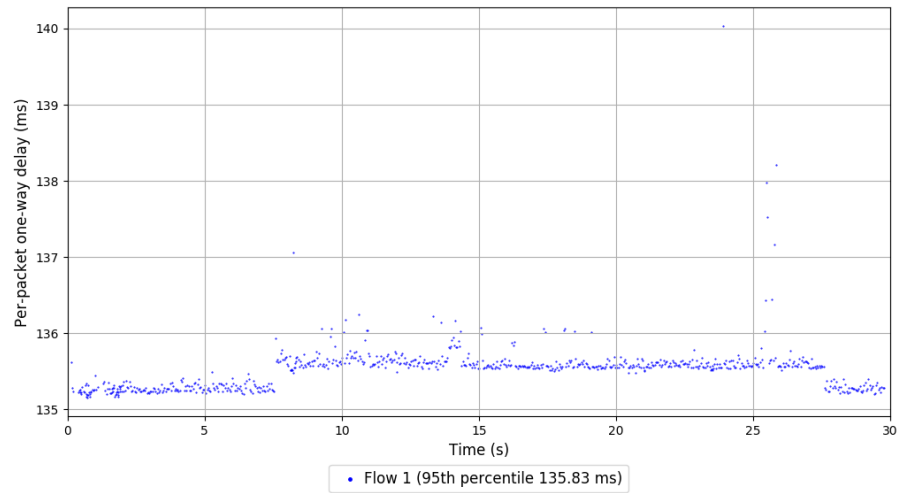
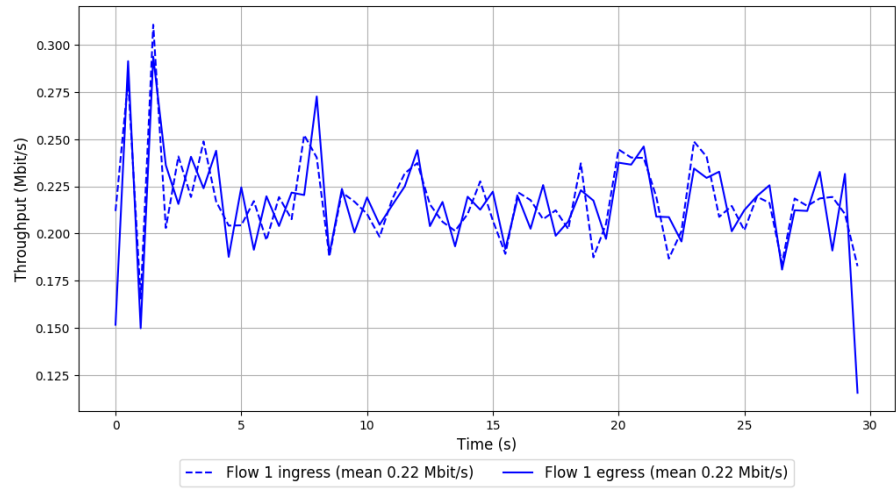
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.833 ms

Loss rate: 0.89%

Run 10: Report of SReAM — Data Link

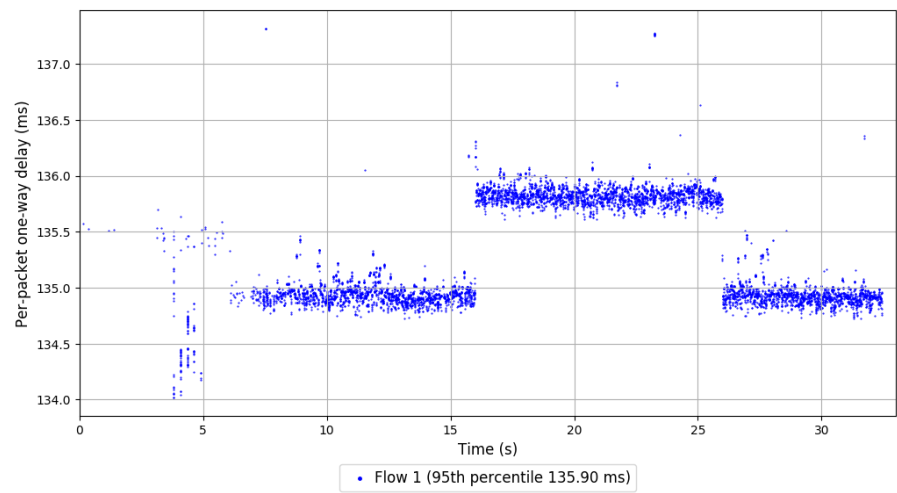
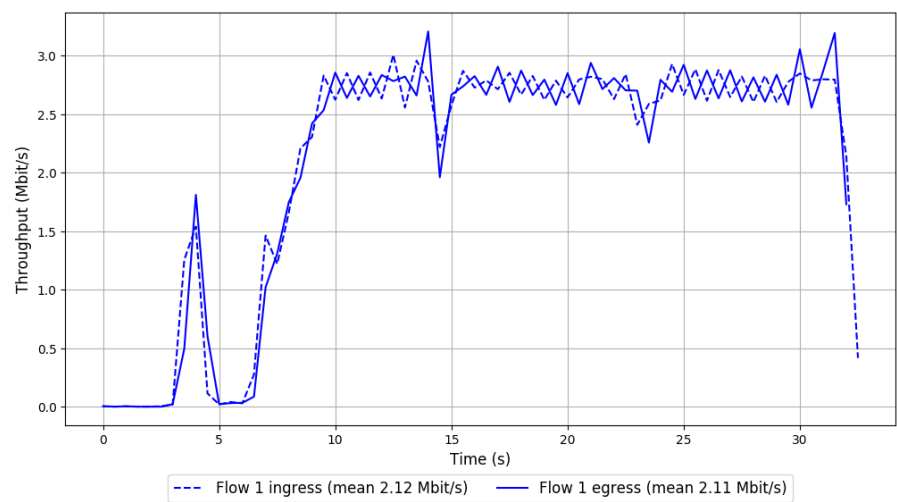


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-30 15:19:19
End at: 2017-11-30 15:19:49

# Below is generated by plot.py at 2017-11-30 19:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 135.903 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 135.903 ms
Loss rate: 0.89%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-30 15:30:50

End at: 2017-11-30 15:31:20

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.657 ms

Loss rate: 1.02%

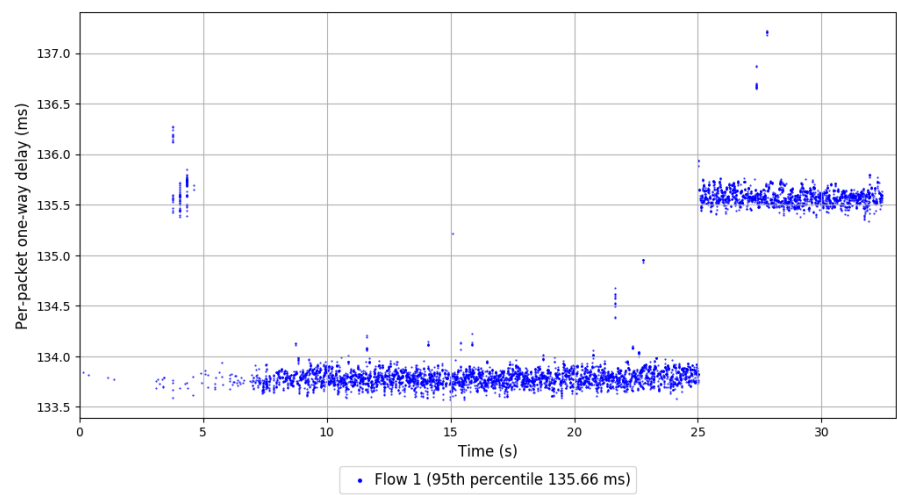
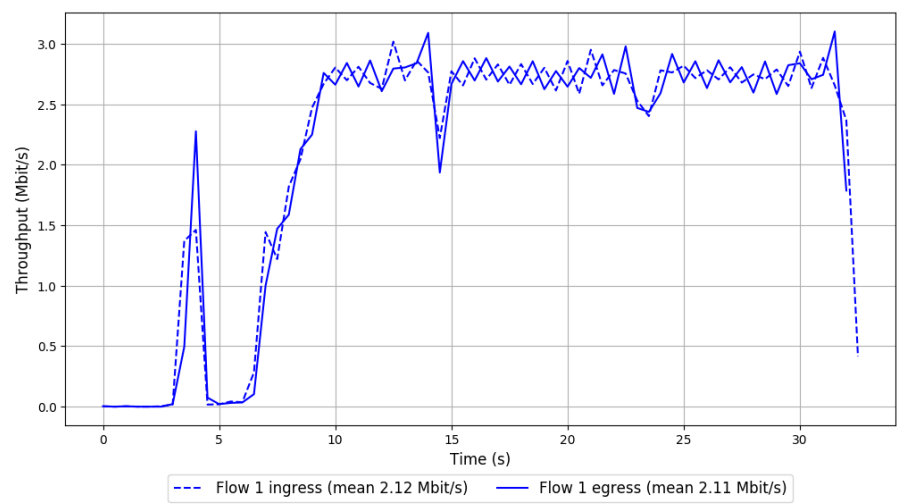
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.657 ms

Loss rate: 1.02%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-30 15:42:23

End at: 2017-11-30 15:42:53

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.924 ms

Loss rate: 0.98%

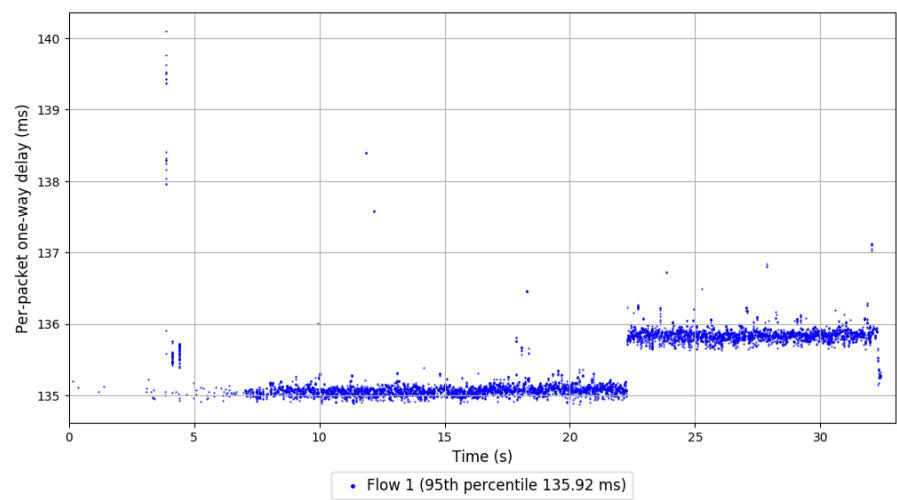
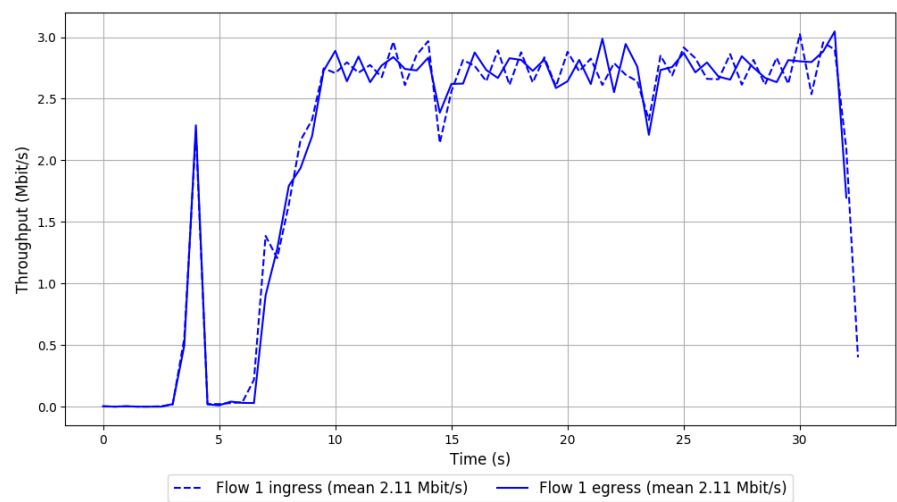
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.924 ms

Loss rate: 0.98%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 15:53:58

End at: 2017-11-30 15:54:28

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.811 ms

Loss rate: 1.02%

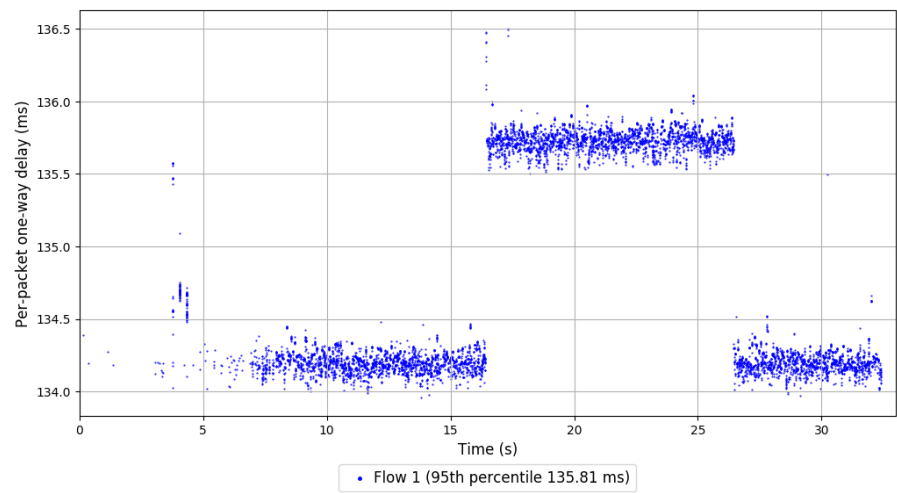
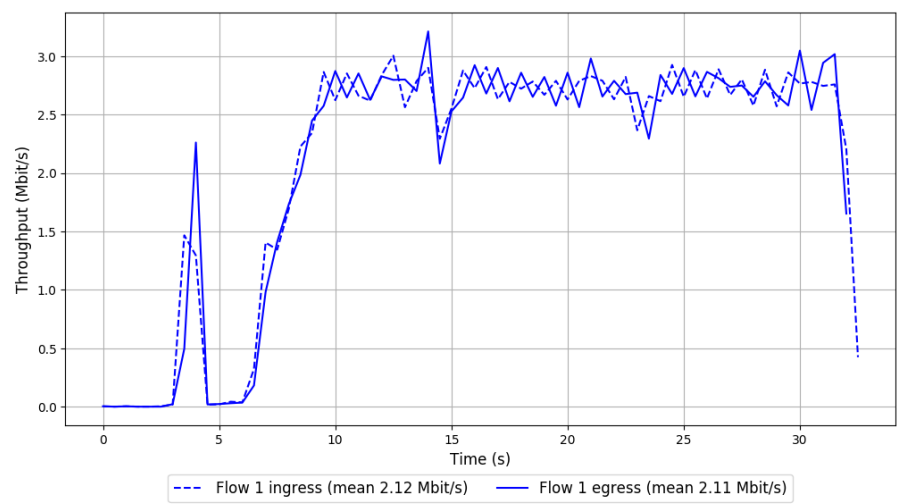
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.811 ms

Loss rate: 1.02%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 16:05:40

End at: 2017-11-30 16:06:10

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.156 ms

Loss rate: 1.02%

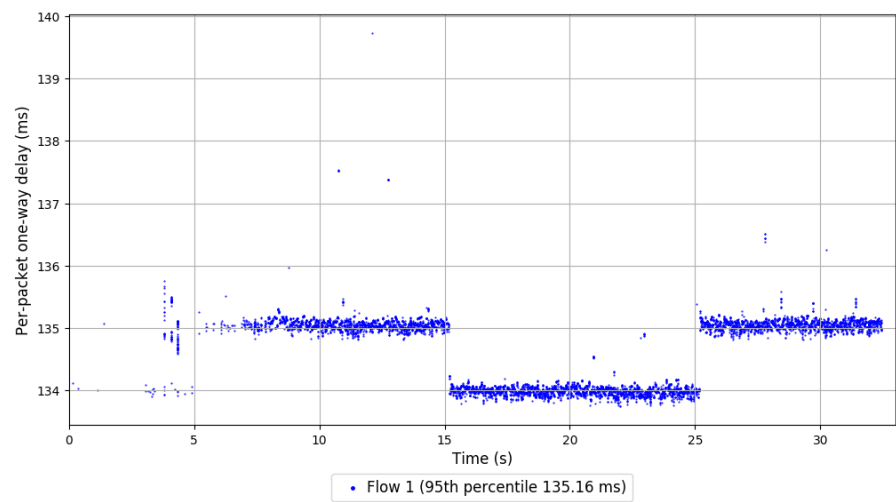
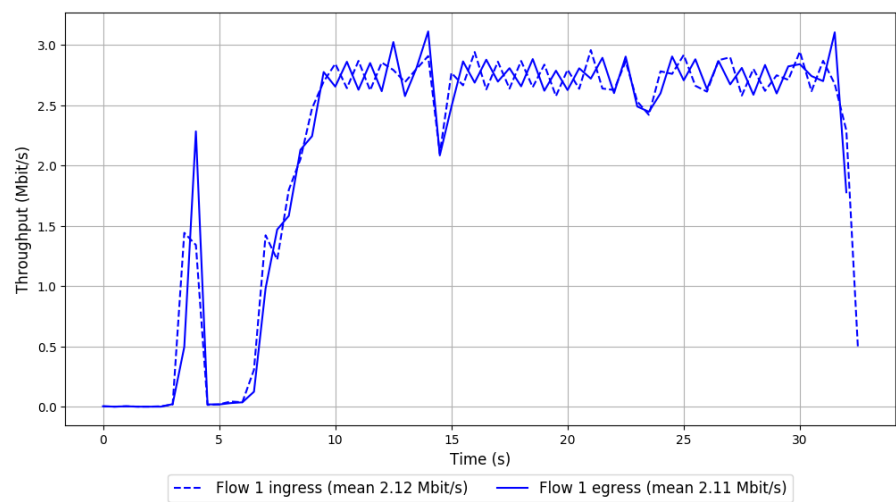
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 135.156 ms

Loss rate: 1.02%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 16:17:04

End at: 2017-11-30 16:17:34

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.917 ms

Loss rate: 1.02%

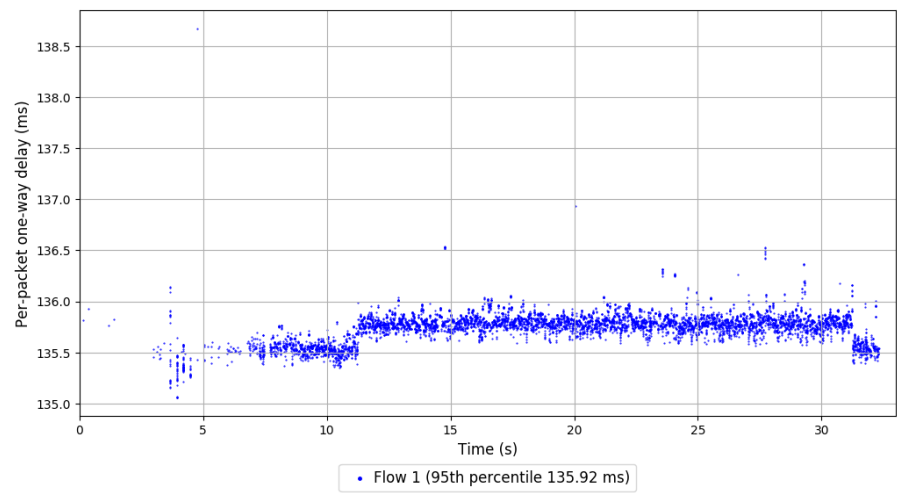
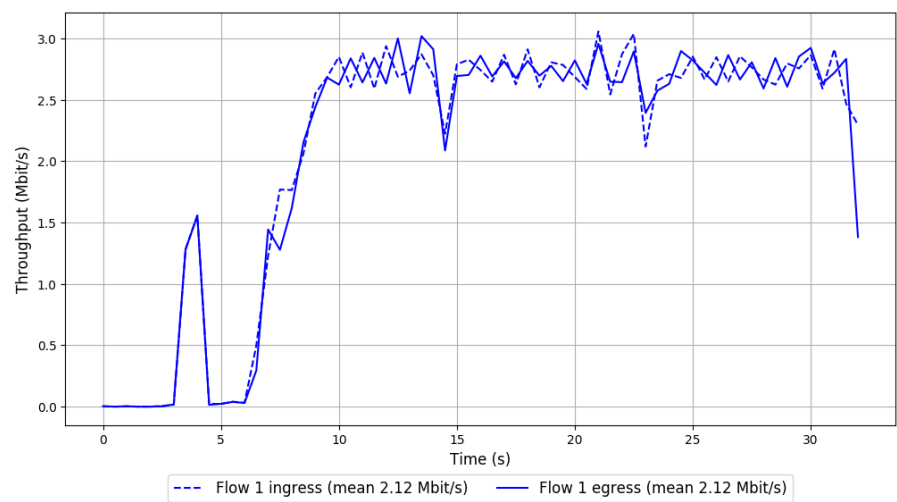
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.917 ms

Loss rate: 1.02%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 16:28:41

End at: 2017-11-30 16:29:11

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.109 ms

Loss rate: 0.99%

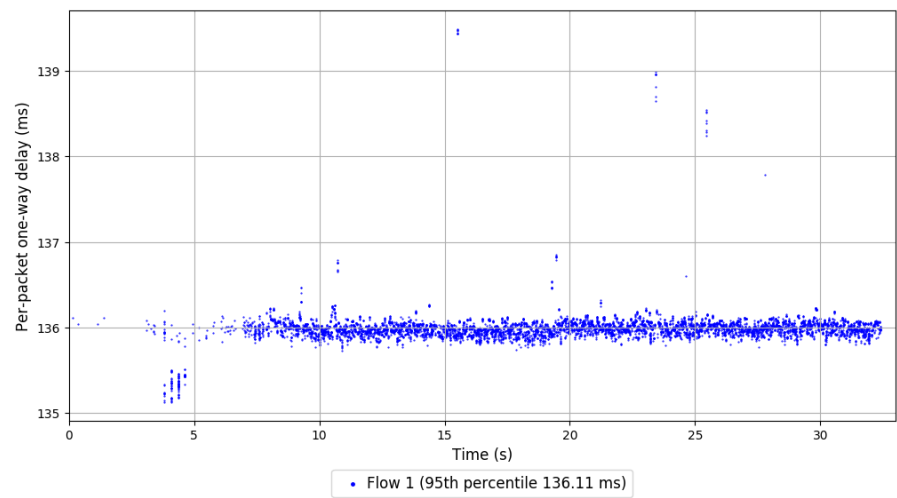
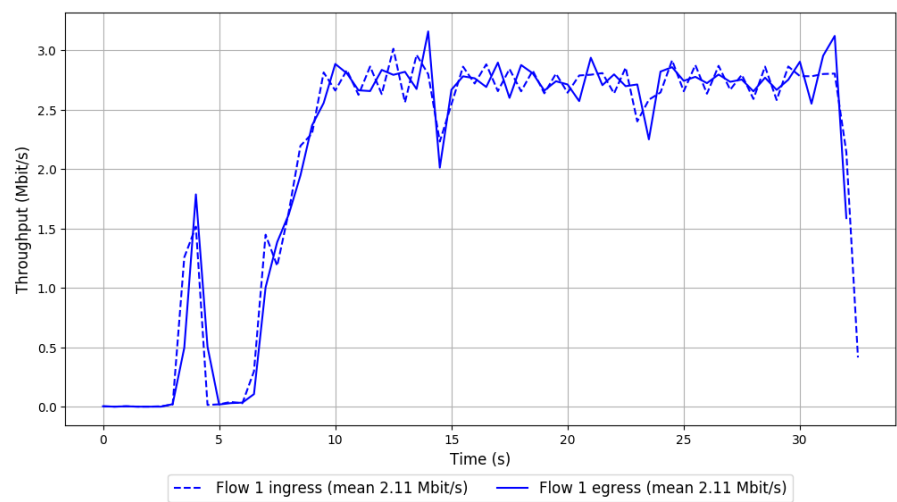
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.109 ms

Loss rate: 0.99%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 16:40:04

End at: 2017-11-30 16:40:34

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.056 ms

Loss rate: 1.00%

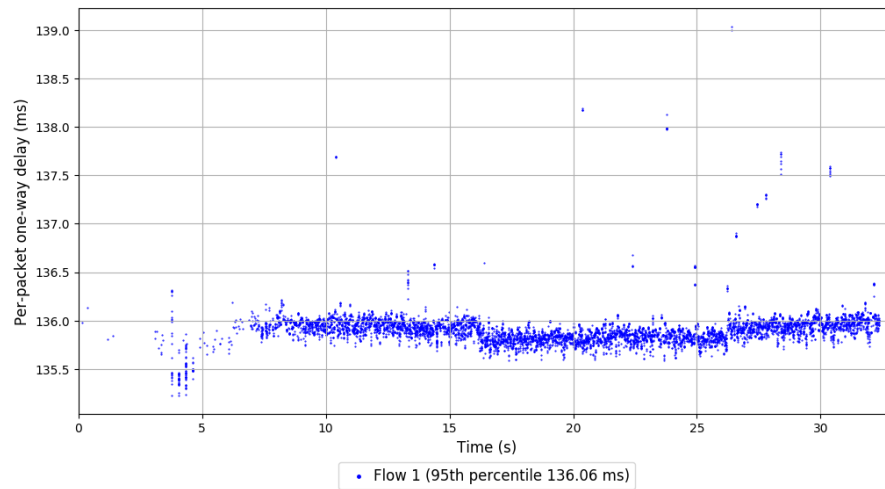
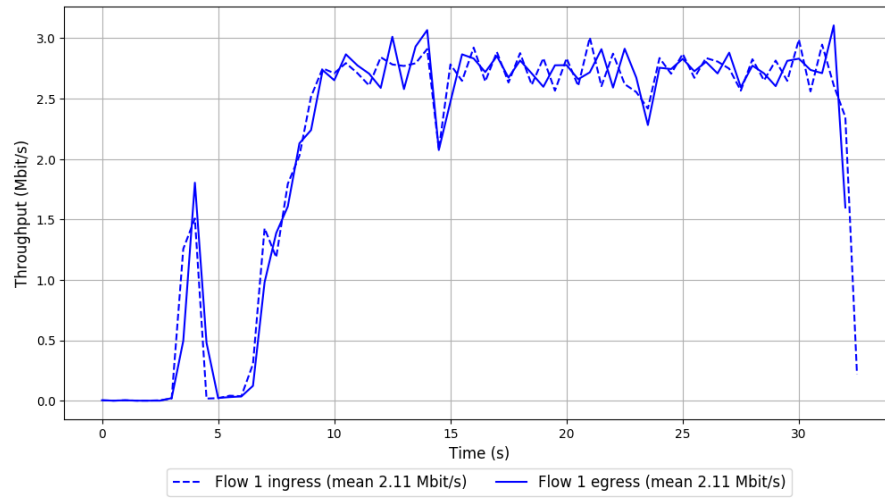
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.056 ms

Loss rate: 1.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-30 16:51:27

End at: 2017-11-30 16:51:57

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.187 ms

Loss rate: 0.98%

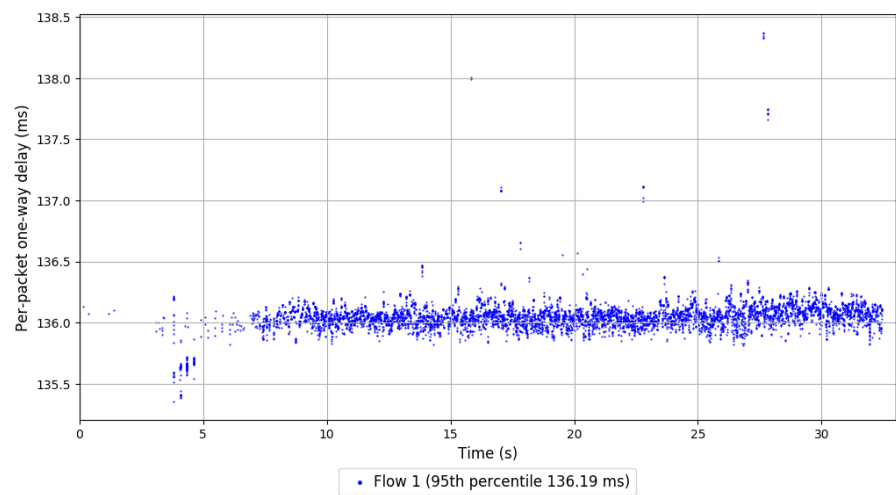
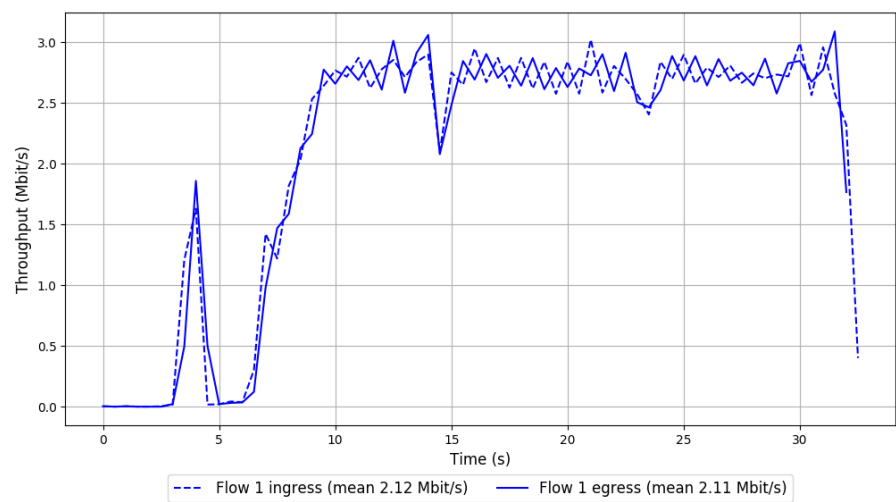
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 136.187 ms

Loss rate: 0.98%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 17:02:59

End at: 2017-11-30 17:03:29

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.452 ms

Loss rate: 1.02%

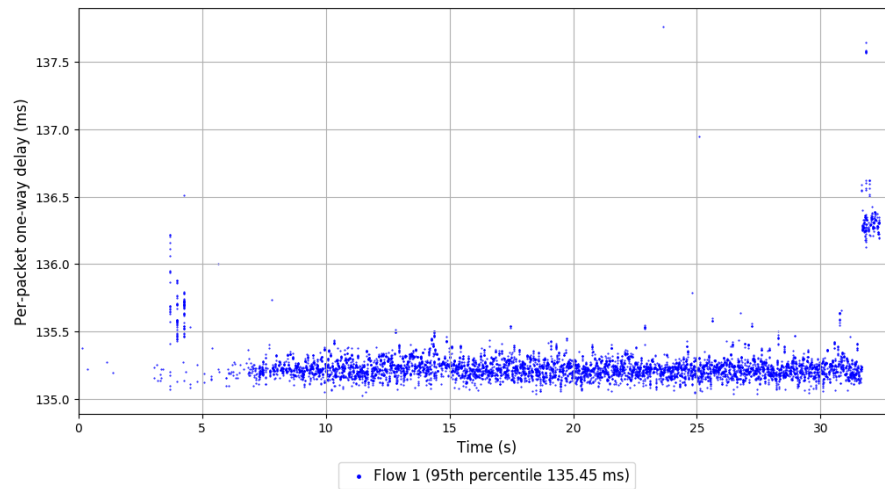
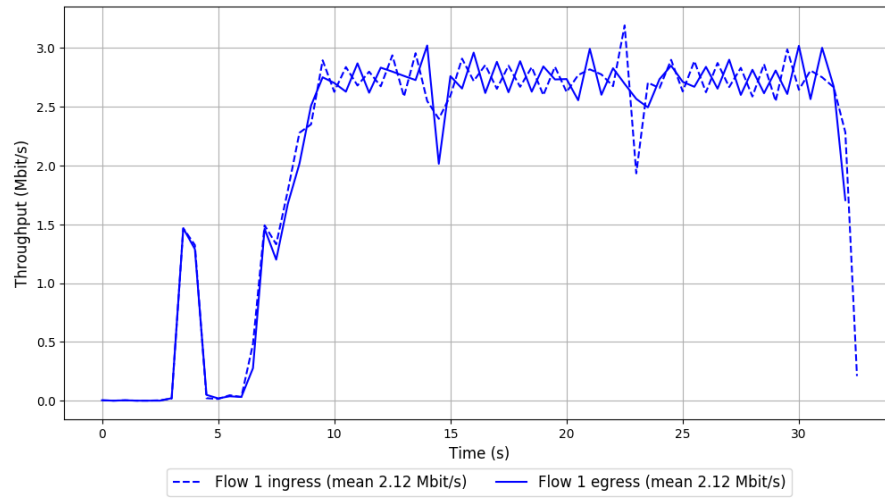
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.452 ms

Loss rate: 1.02%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-30 15:17:51

End at: 2017-11-30 15:18:21

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.796 ms

Loss rate: 0.91%

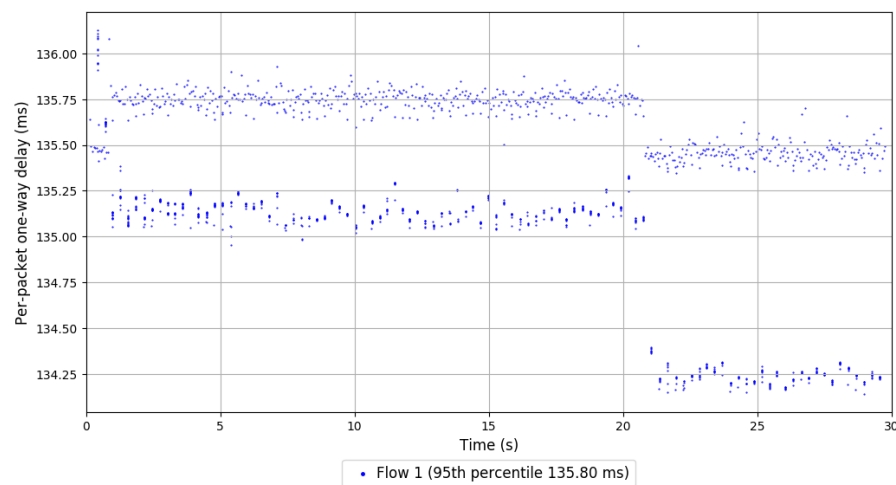
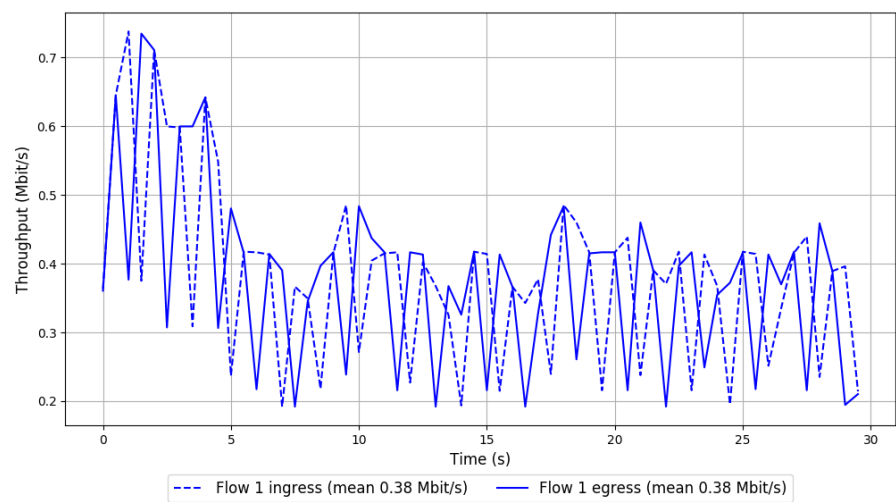
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.796 ms

Loss rate: 0.91%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 15:29:22

End at: 2017-11-30 15:29:52

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.908 ms

Loss rate: 0.99%

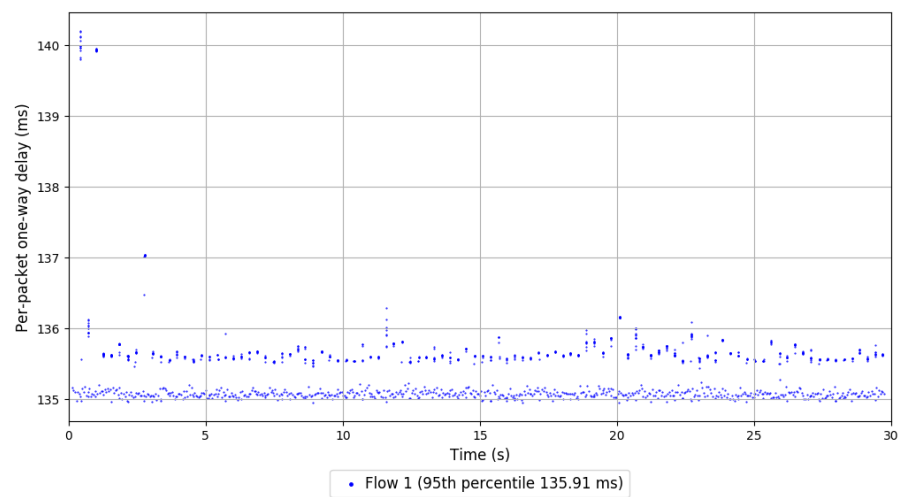
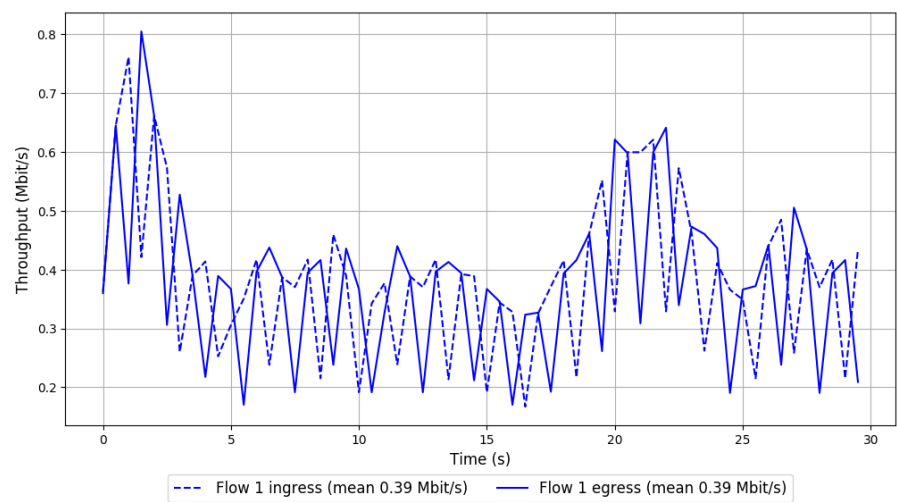
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.908 ms

Loss rate: 0.99%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 15:40:55

End at: 2017-11-30 15:41:25

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.930 ms

Loss rate: 0.73%

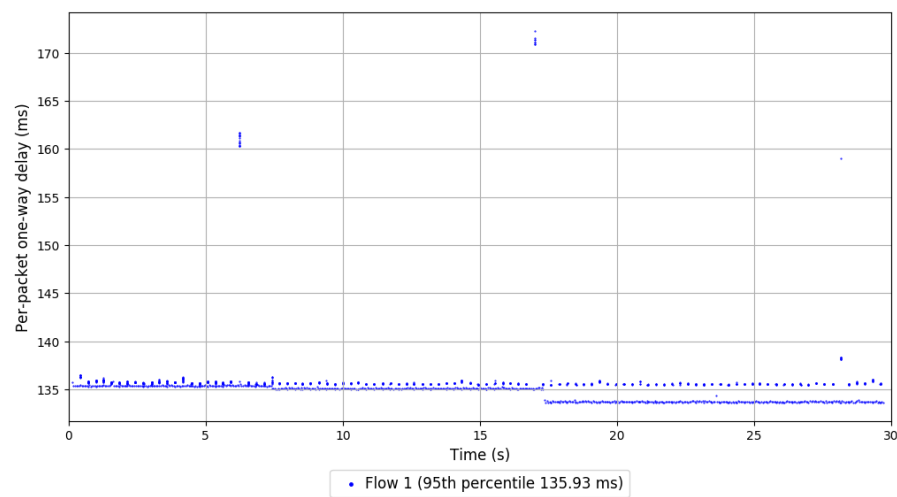
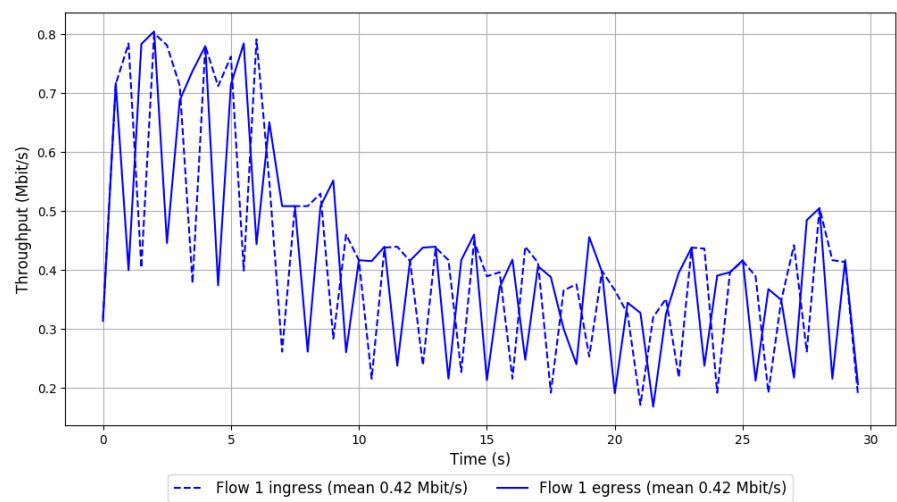
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.930 ms

Loss rate: 0.73%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 15:52:30

End at: 2017-11-30 15:53:00

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.897 ms

Loss rate: 0.79%

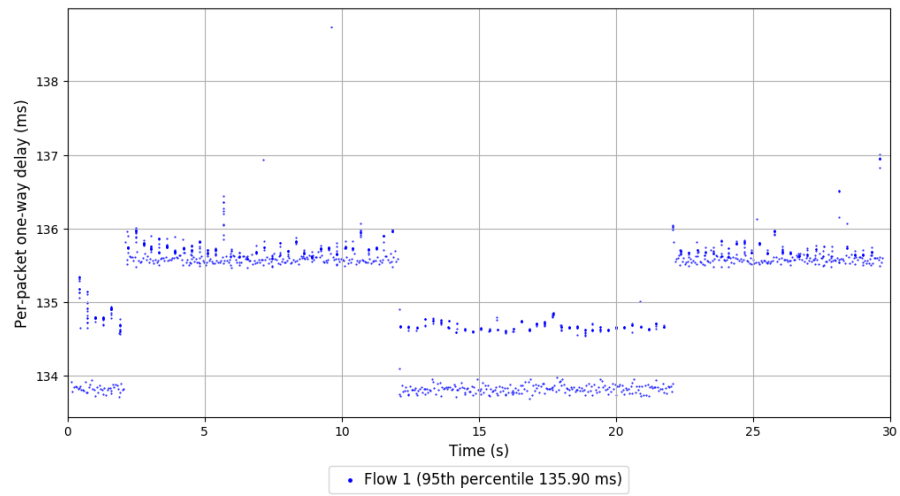
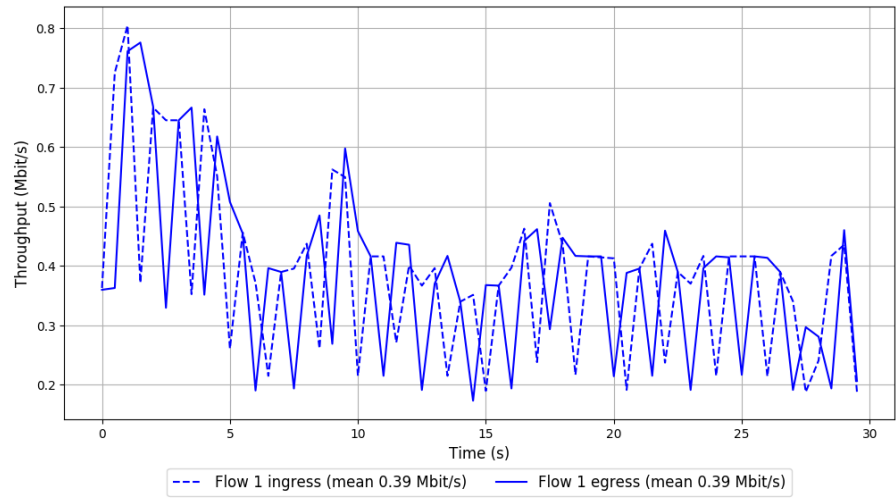
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.897 ms

Loss rate: 0.79%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 16:04:12

End at: 2017-11-30 16:04:42

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.928 ms

Loss rate: 1.22%

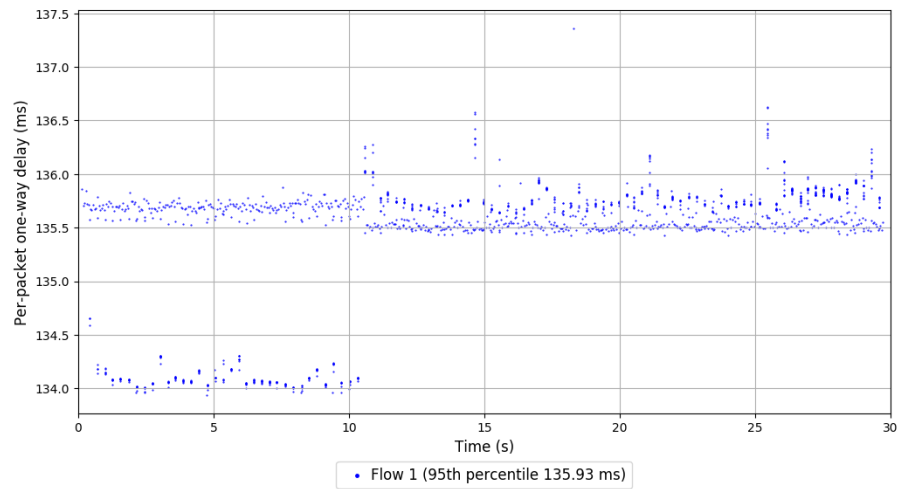
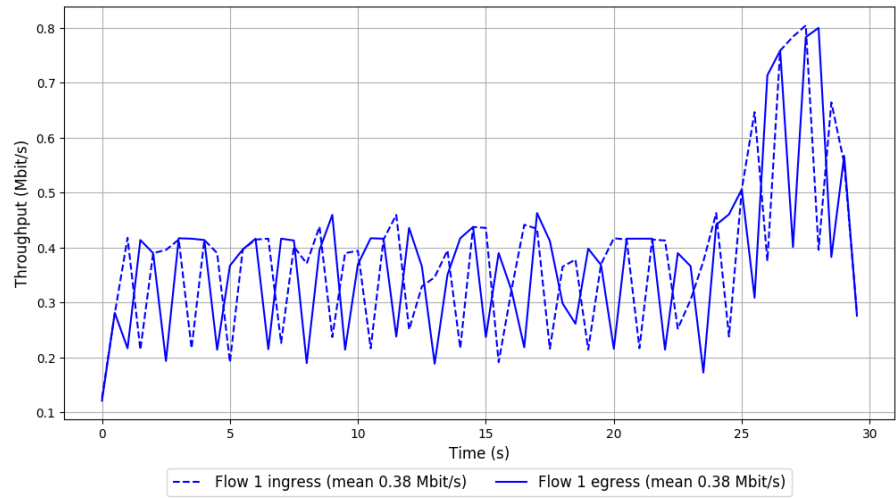
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 135.928 ms

Loss rate: 1.22%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-30 16:15:35

End at: 2017-11-30 16:16:05

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.928 ms

Loss rate: 0.94%

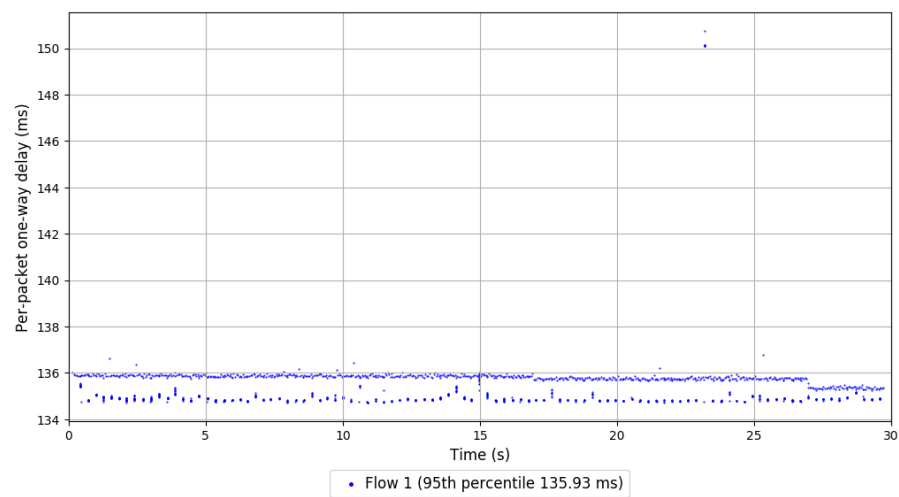
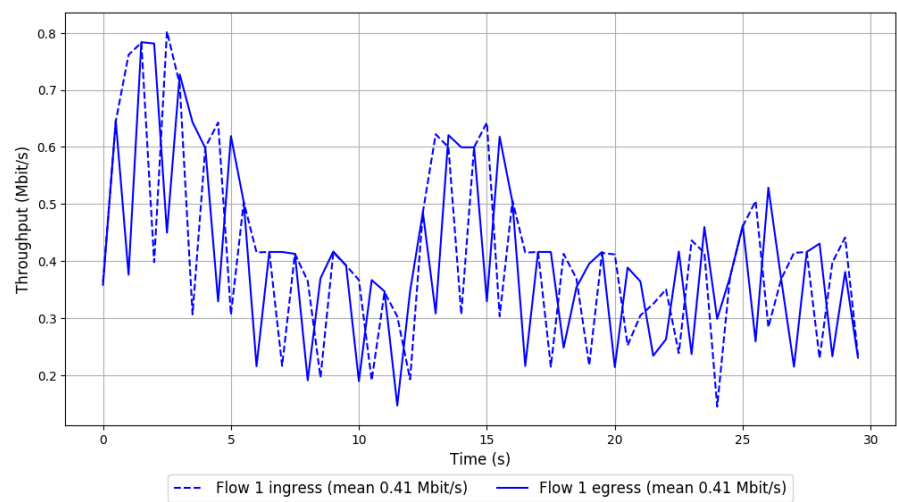
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.928 ms

Loss rate: 0.94%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 16:27:14

End at: 2017-11-30 16:27:44

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.579 ms

Loss rate: 1.32%

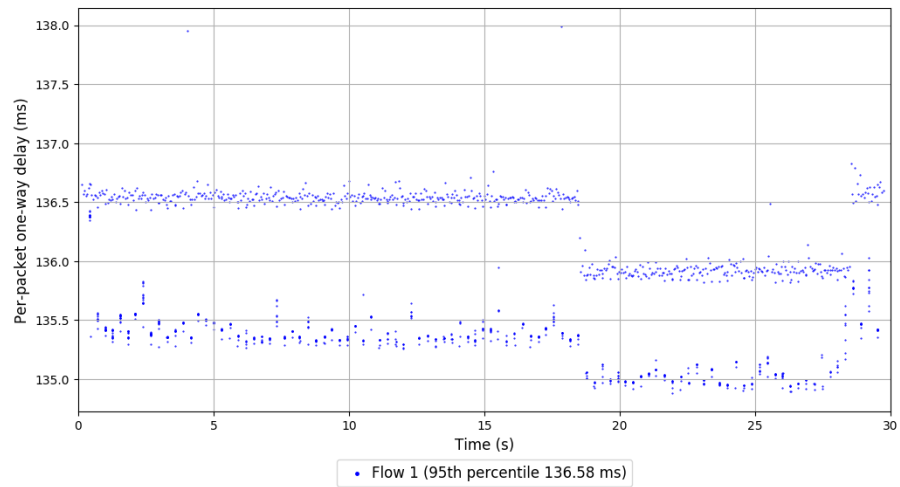
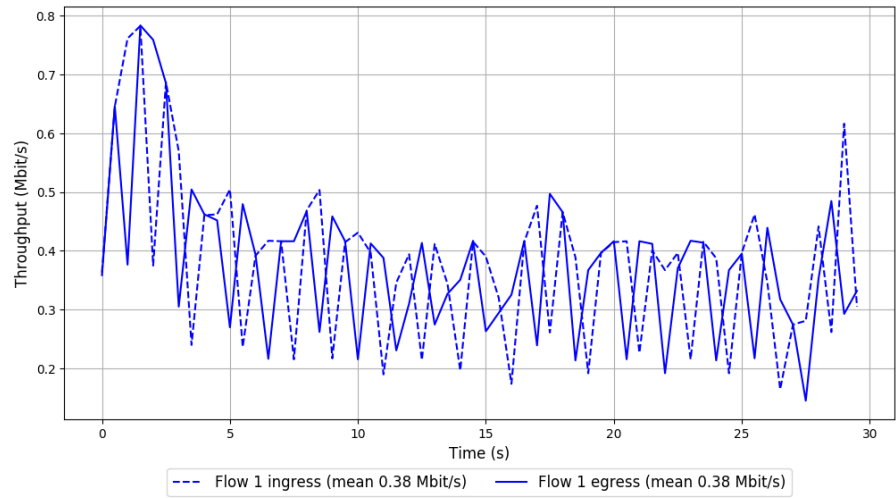
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.579 ms

Loss rate: 1.32%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 16:38:36

End at: 2017-11-30 16:39:06

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.057 ms

Loss rate: 0.81%

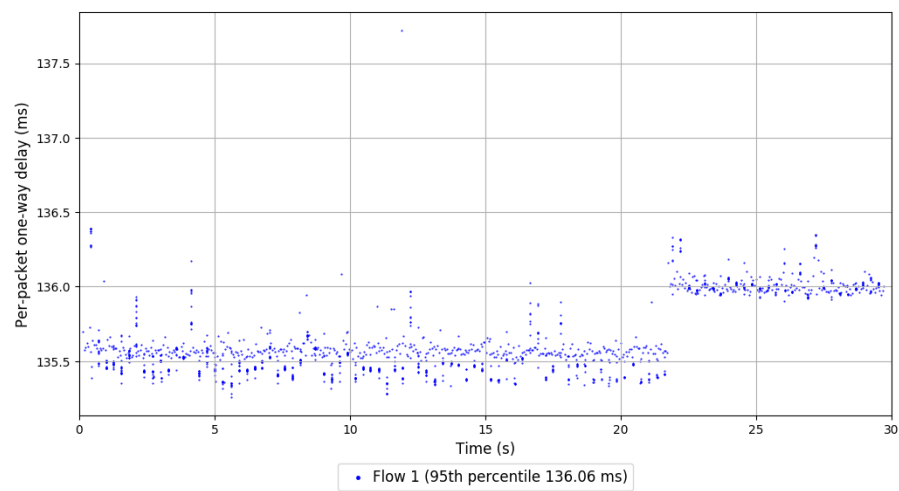
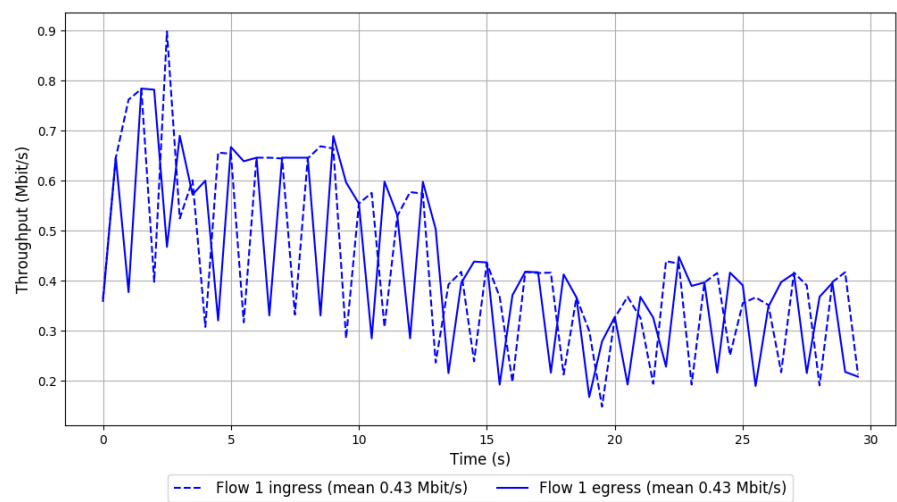
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.057 ms

Loss rate: 0.81%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-30 16:49:58

End at: 2017-11-30 16:50:28

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.416 ms

Loss rate: 0.92%

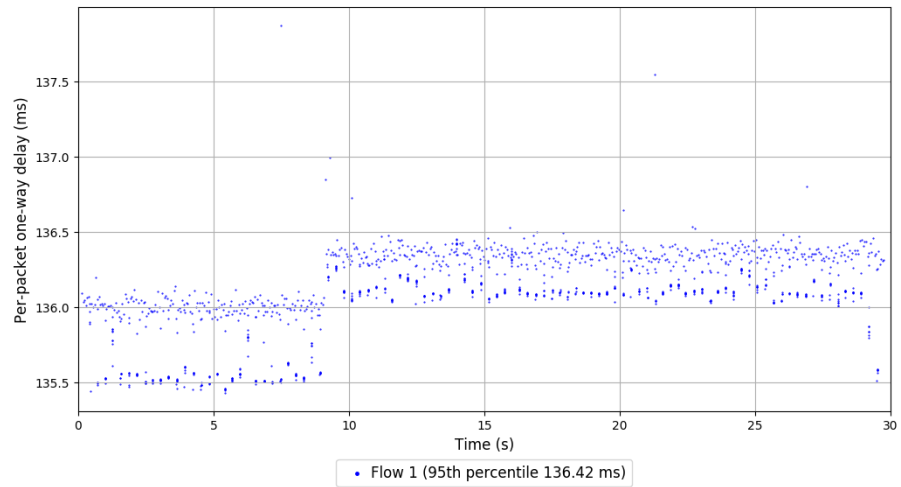
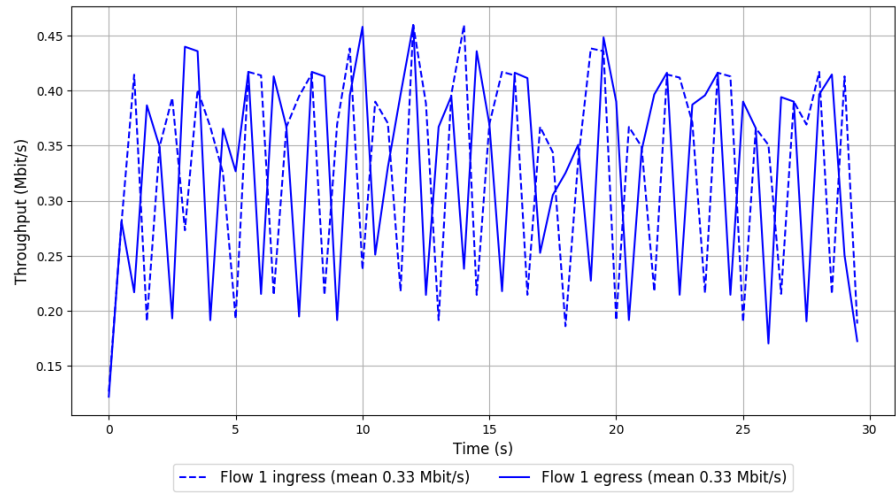
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.416 ms

Loss rate: 0.92%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-30 17:01:32

End at: 2017-11-30 17:02:02

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.556 ms

Loss rate: 0.77%

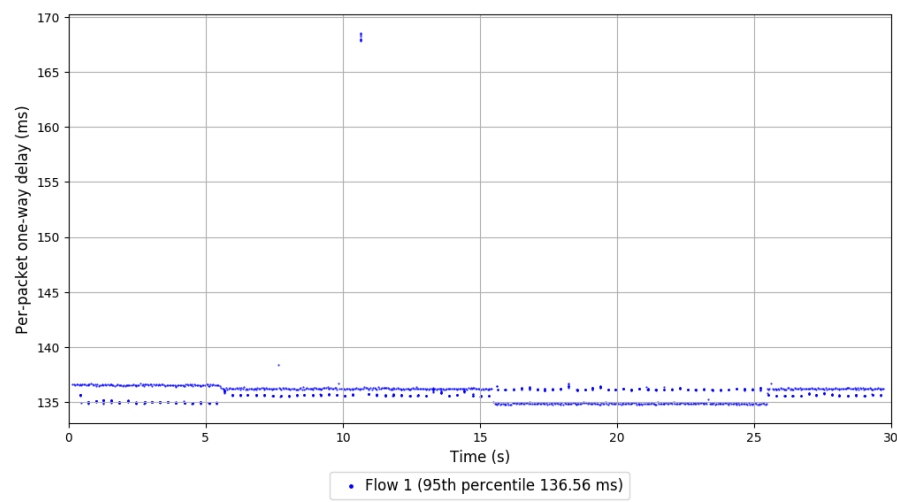
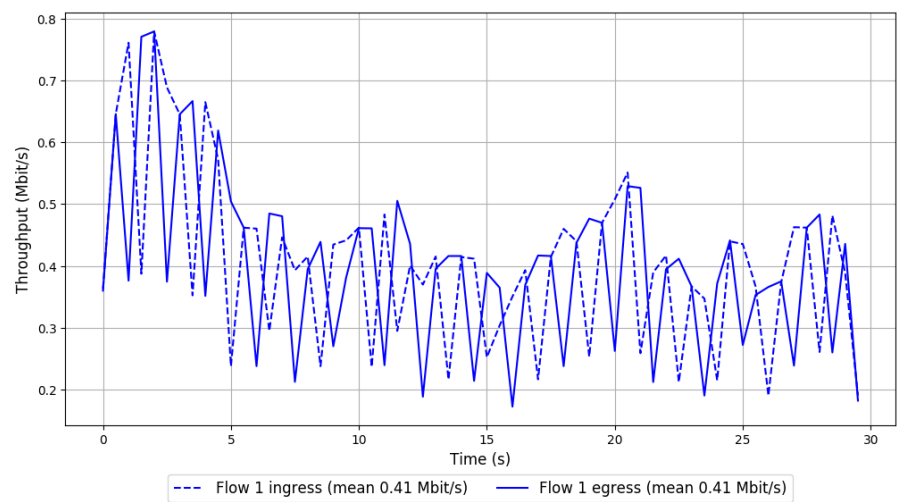
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.556 ms

Loss rate: 0.77%

Run 10: Report of Sprout — Data Link

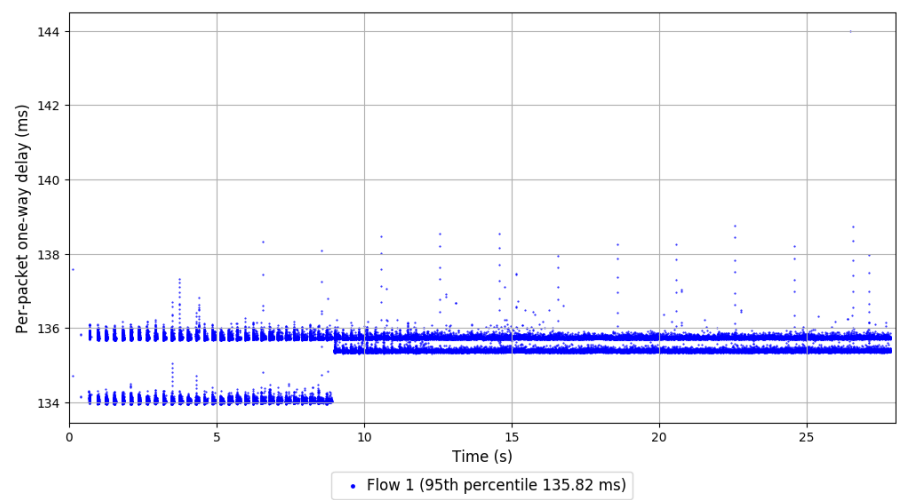
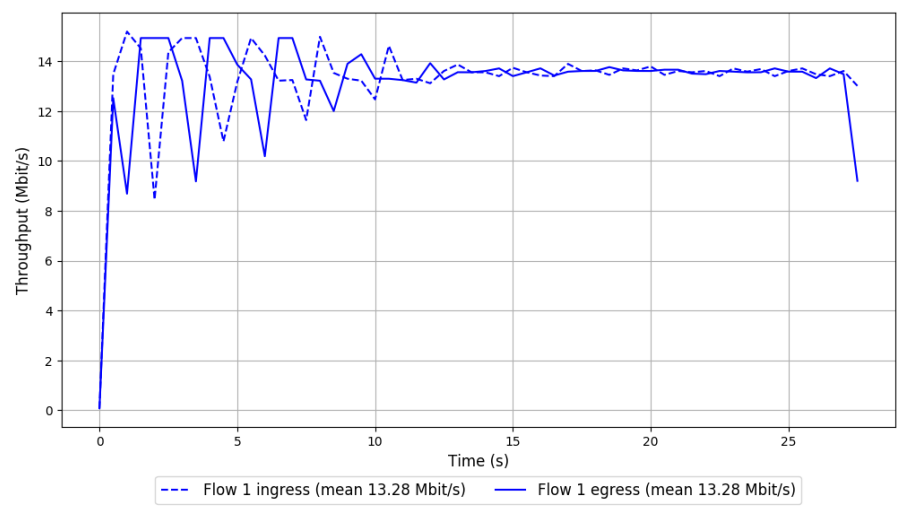


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 15:15:41
End at: 2017-11-30 15:16:11

# Below is generated by plot.py at 2017-11-30 19:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 135.824 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 13.28 Mbit/s
95th percentile per-packet one-way delay: 135.824 ms
Loss rate: 1.01%
```


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

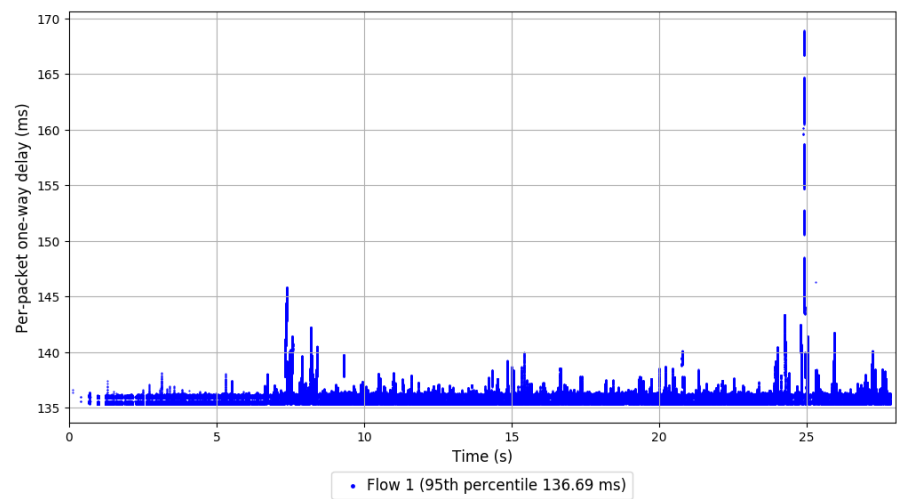
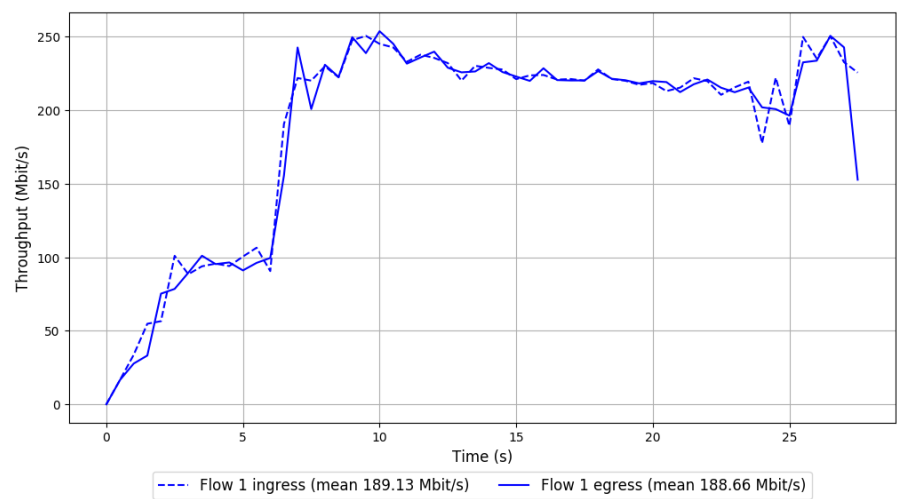


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 15:26:51
End at: 2017-11-30 15:27:21

# Below is generated by plot.py at 2017-11-30 19:25:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.66 Mbit/s
95th percentile per-packet one-way delay: 136.690 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 188.66 Mbit/s
95th percentile per-packet one-way delay: 136.690 ms
Loss rate: 1.25%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 15:38:19

End at: 2017-11-30 15:38:49

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.93 Mbit/s

95th percentile per-packet one-way delay: 135.871 ms

Loss rate: 1.03%

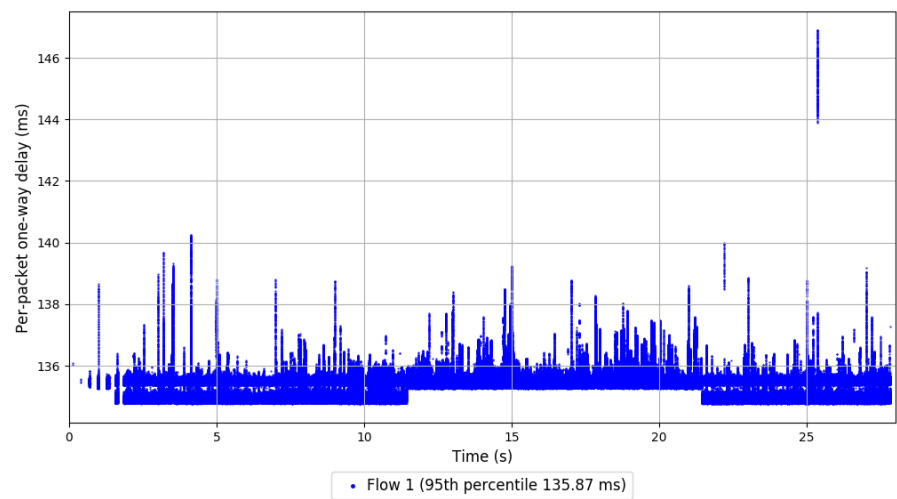
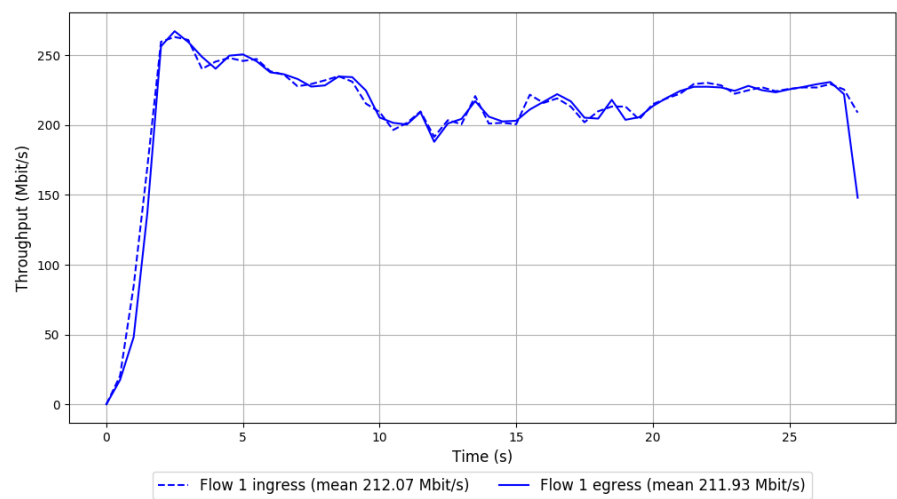
-- Flow 1:

Average throughput: 211.93 Mbit/s

95th percentile per-packet one-way delay: 135.871 ms

Loss rate: 1.03%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 15:49:56

End at: 2017-11-30 15:50:26

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.68 Mbit/s

95th percentile per-packet one-way delay: 135.971 ms

Loss rate: 0.71%

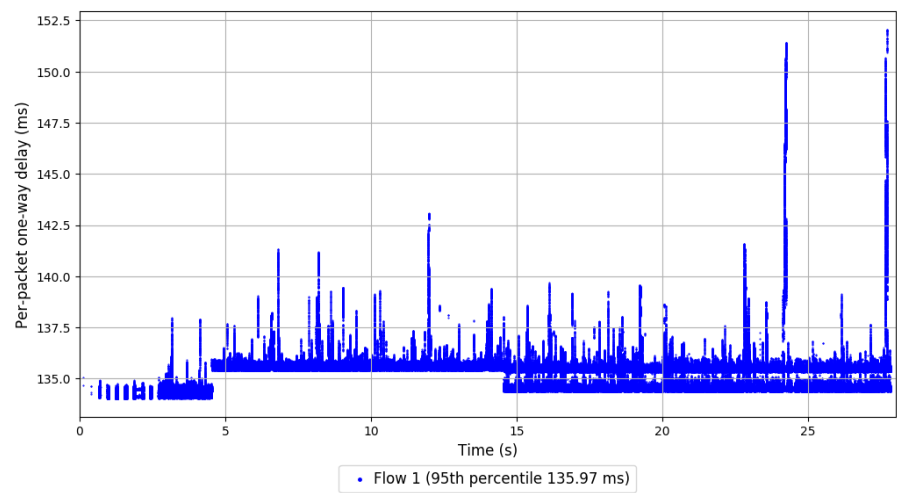
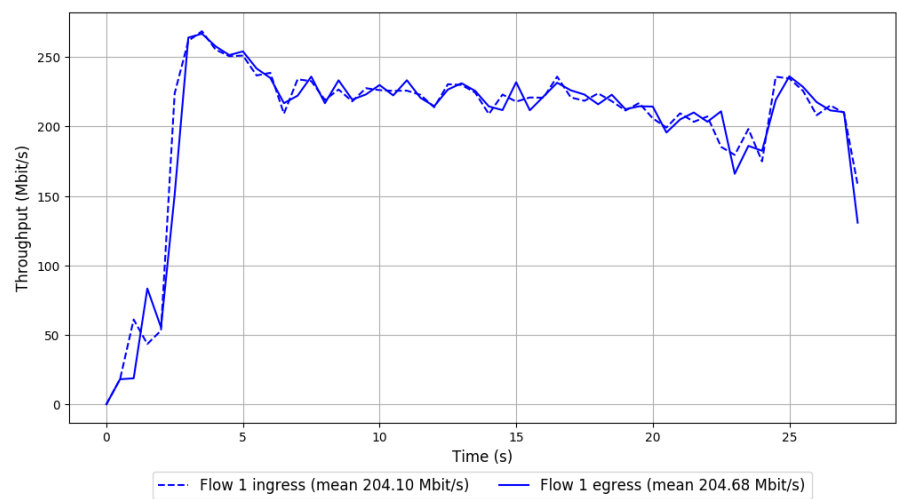
-- Flow 1:

Average throughput: 204.68 Mbit/s

95th percentile per-packet one-way delay: 135.971 ms

Loss rate: 0.71%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 16:01:35

End at: 2017-11-30 16:02:05

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.25 Mbit/s

95th percentile per-packet one-way delay: 135.177 ms

Loss rate: 1.05%

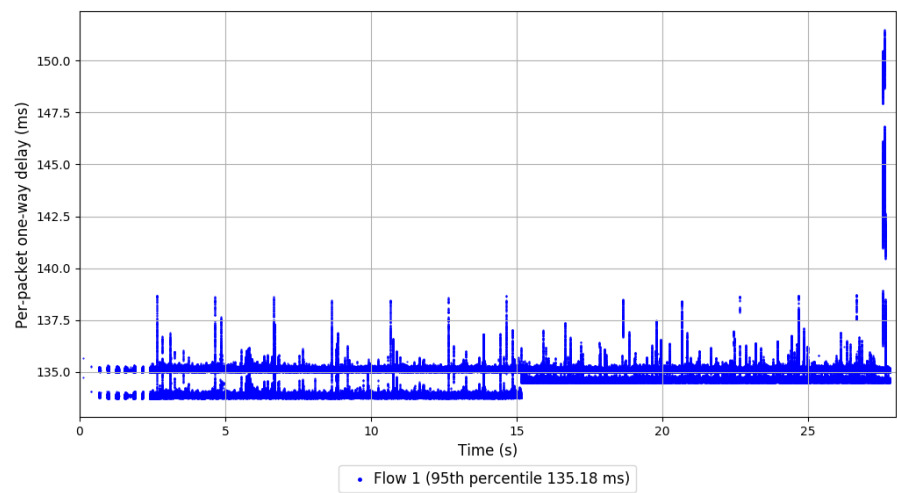
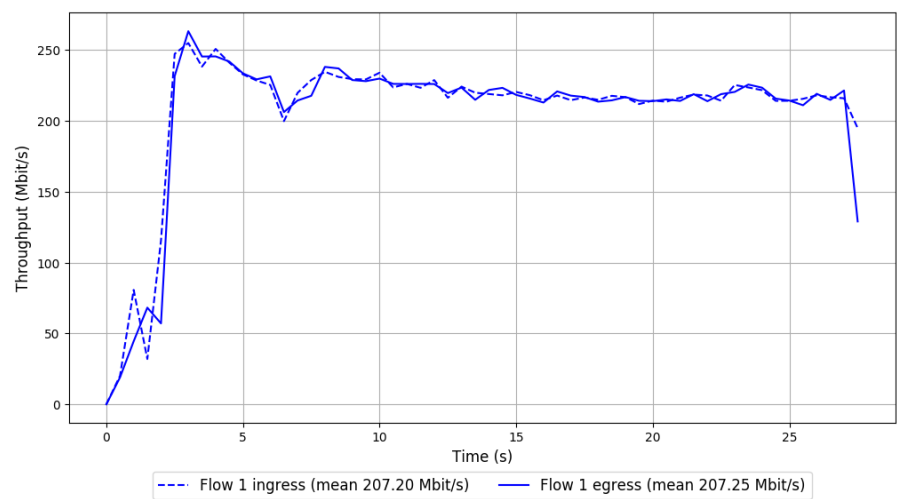
-- Flow 1:

Average throughput: 207.25 Mbit/s

95th percentile per-packet one-way delay: 135.177 ms

Loss rate: 1.05%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 16:13:05

End at: 2017-11-30 16:13:35

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.58 Mbit/s

95th percentile per-packet one-way delay: 135.807 ms

Loss rate: 0.85%

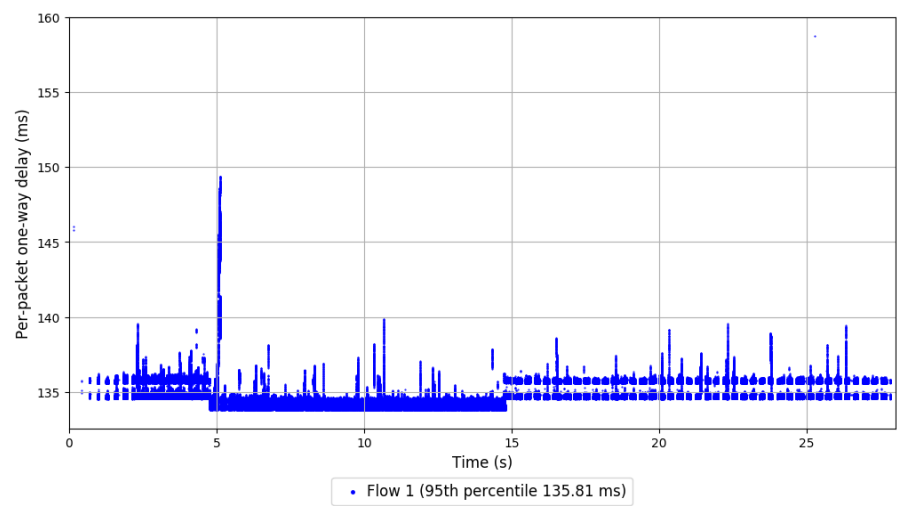
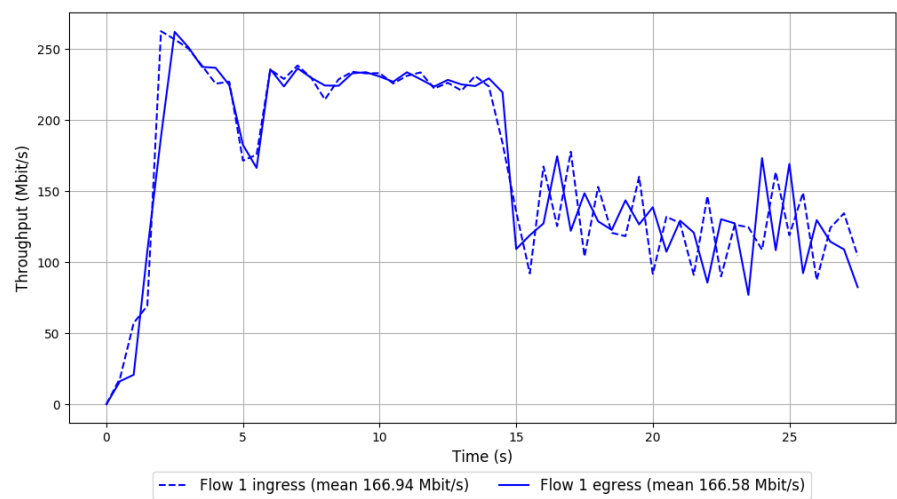
-- Flow 1:

Average throughput: 166.58 Mbit/s

95th percentile per-packet one-way delay: 135.807 ms

Loss rate: 0.85%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 16:24:39

End at: 2017-11-30 16:25:09

Below is generated by plot.py at 2017-11-30 19:25:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.09 Mbit/s

95th percentile per-packet one-way delay: 135.439 ms

Loss rate: 1.16%

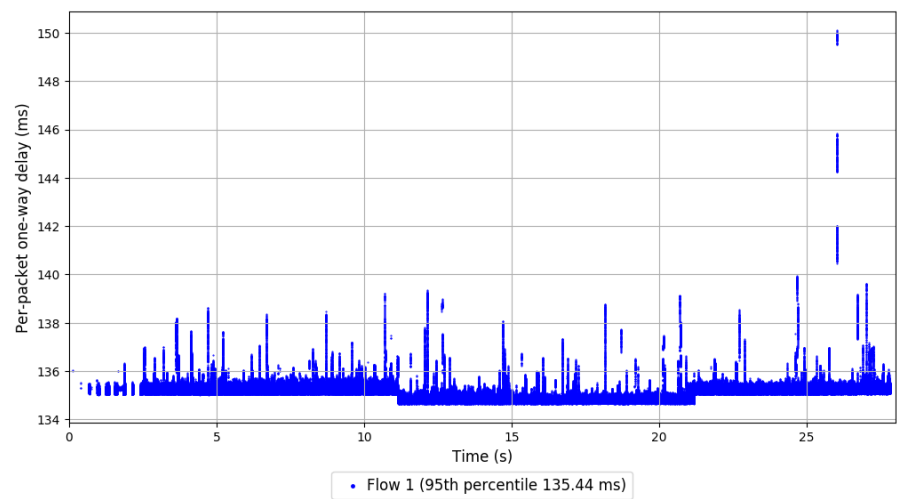
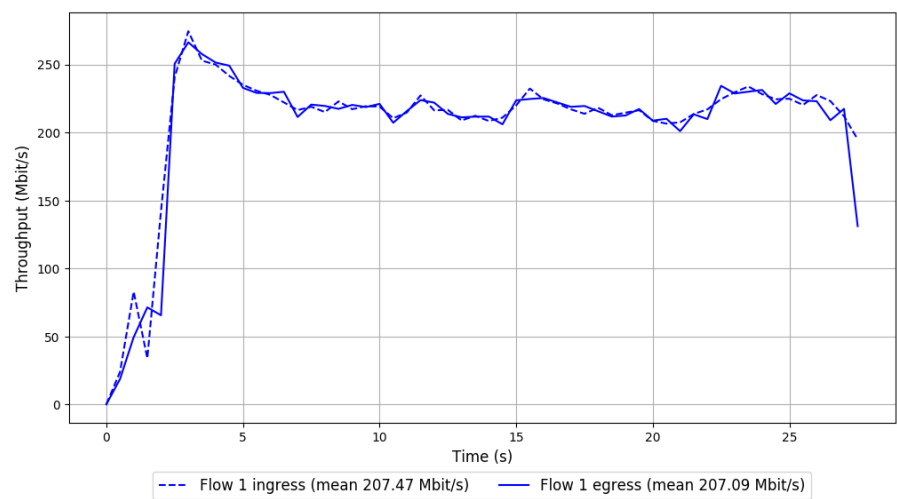
-- Flow 1:

Average throughput: 207.09 Mbit/s

95th percentile per-packet one-way delay: 135.439 ms

Loss rate: 1.16%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 16:36:09

End at: 2017-11-30 16:36:39

Below is generated by plot.py at 2017-11-30 19:28:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.13 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 1.25%

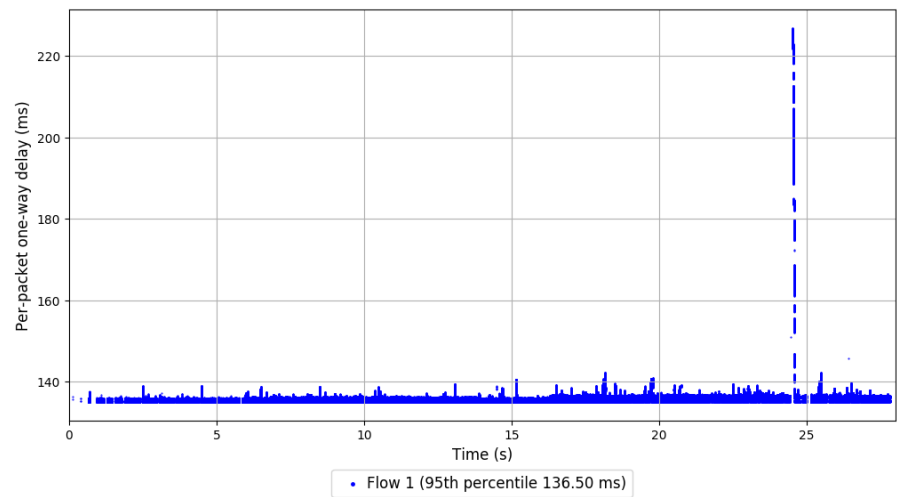
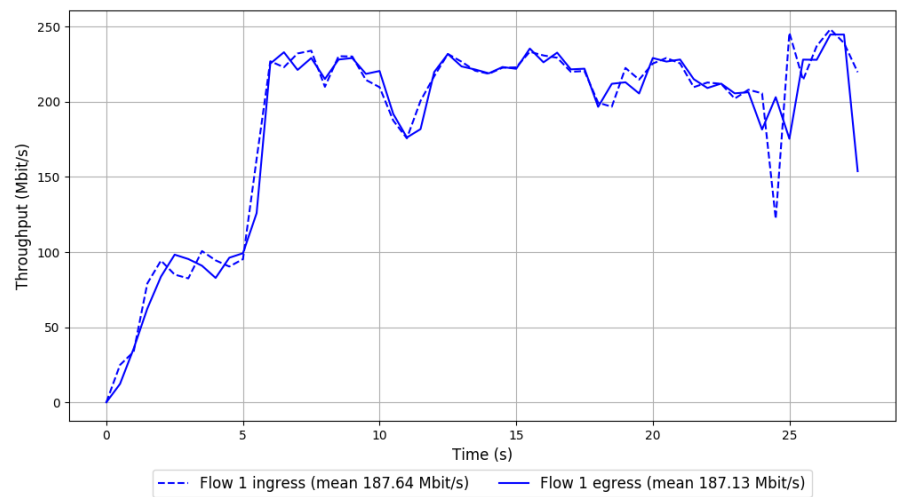
-- Flow 1:

Average throughput: 187.13 Mbit/s

95th percentile per-packet one-way delay: 136.499 ms

Loss rate: 1.25%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 16:47:31

End at: 2017-11-30 16:48:01

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.06 Mbit/s

95th percentile per-packet one-way delay: 136.585 ms

Loss rate: 1.12%

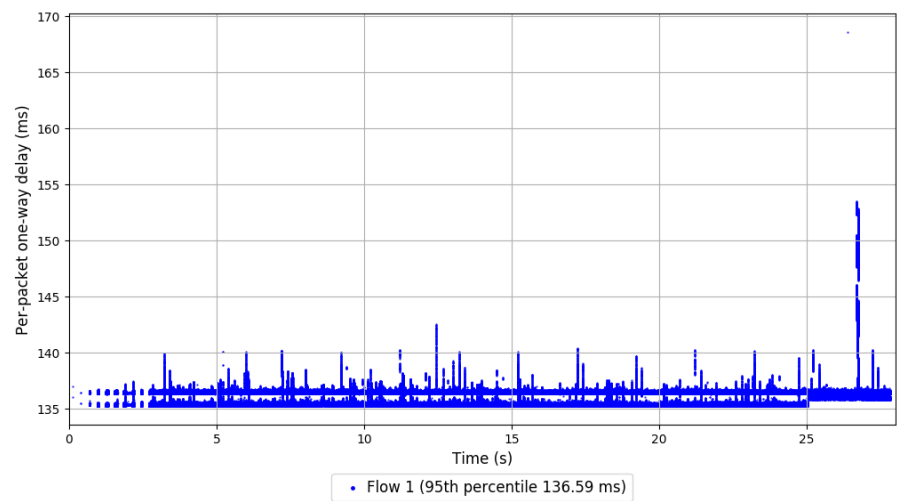
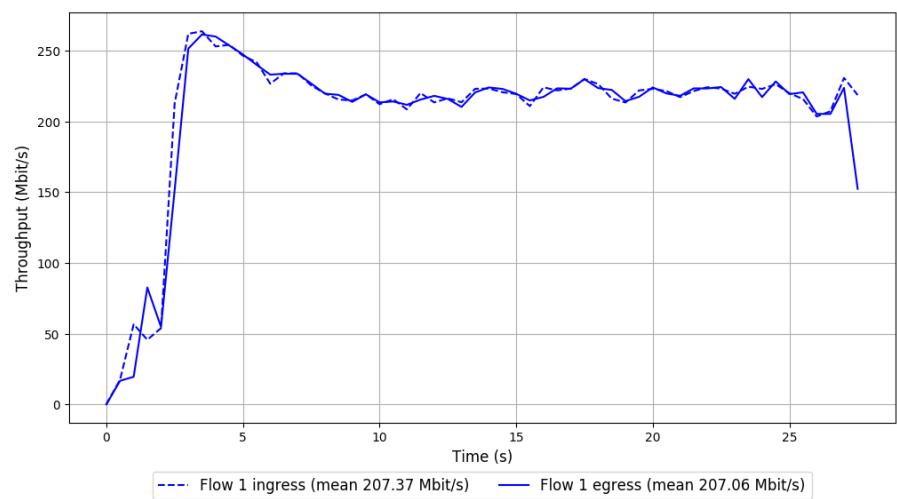
-- Flow 1:

Average throughput: 207.06 Mbit/s

95th percentile per-packet one-way delay: 136.585 ms

Loss rate: 1.12%

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

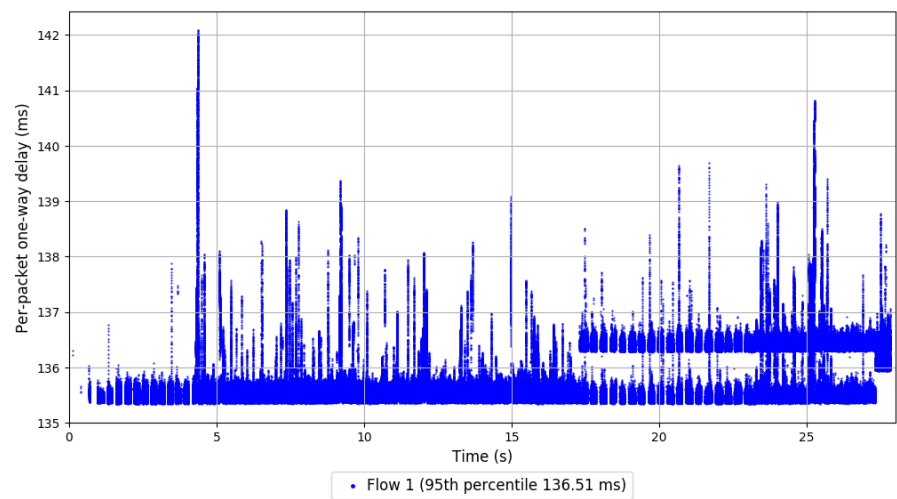
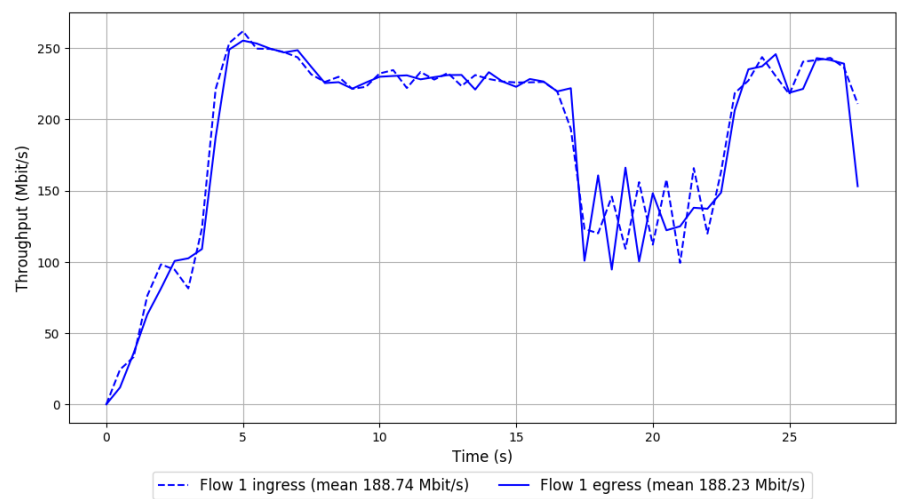


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 16:58:58
End at: 2017-11-30 16:59:28

# Below is generated by plot.py at 2017-11-30 19:29:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.23 Mbit/s
95th percentile per-packet one-way delay: 136.510 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 188.23 Mbit/s
95th percentile per-packet one-way delay: 136.510 ms
Loss rate: 1.24%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 15:21:48

End at: 2017-11-30 15:22:18

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 136.366 ms

Loss rate: 1.55%

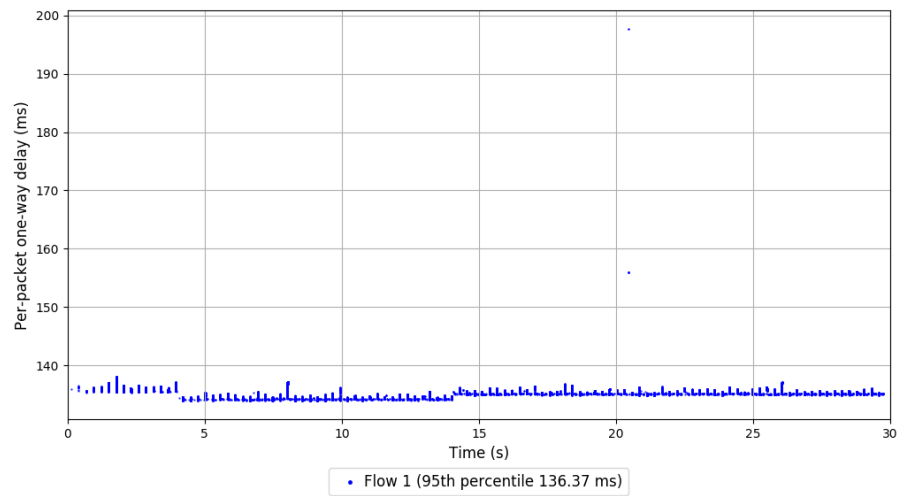
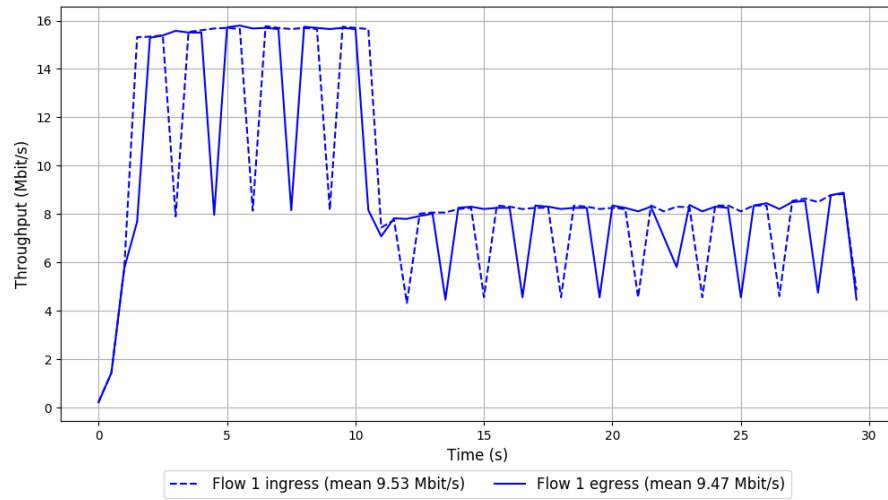
-- Flow 1:

Average throughput: 9.47 Mbit/s

95th percentile per-packet one-way delay: 136.366 ms

Loss rate: 1.55%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 15:33:19

End at: 2017-11-30 15:33:49

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 139.157 ms

Loss rate: 0.60%

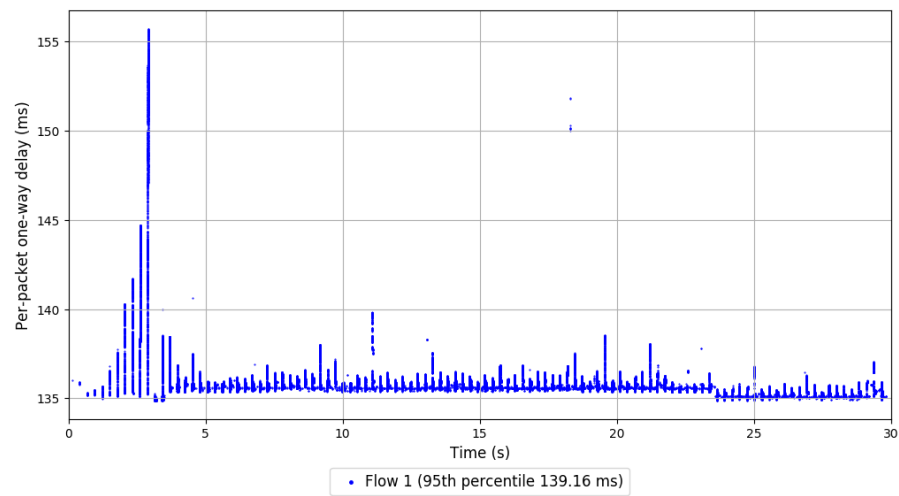
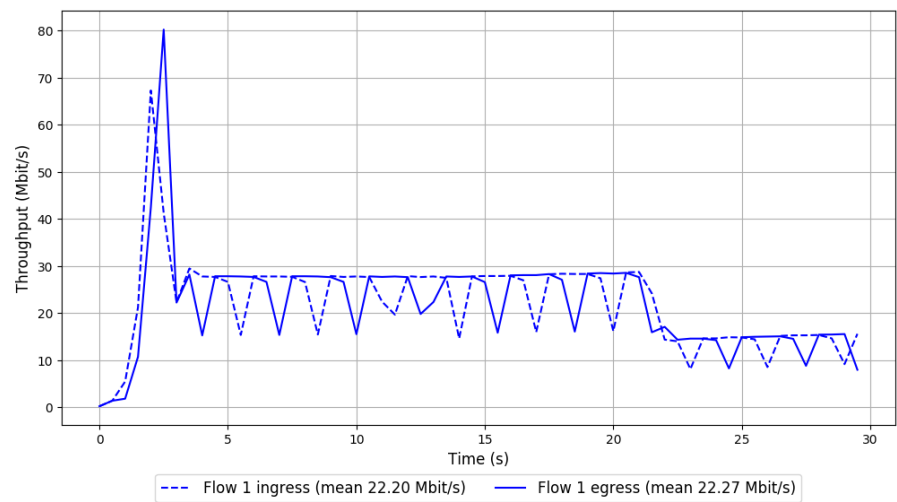
-- Flow 1:

Average throughput: 22.27 Mbit/s

95th percentile per-packet one-way delay: 139.157 ms

Loss rate: 0.60%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 15:44:53

End at: 2017-11-30 15:45:23

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 142.266 ms

Loss rate: 0.63%

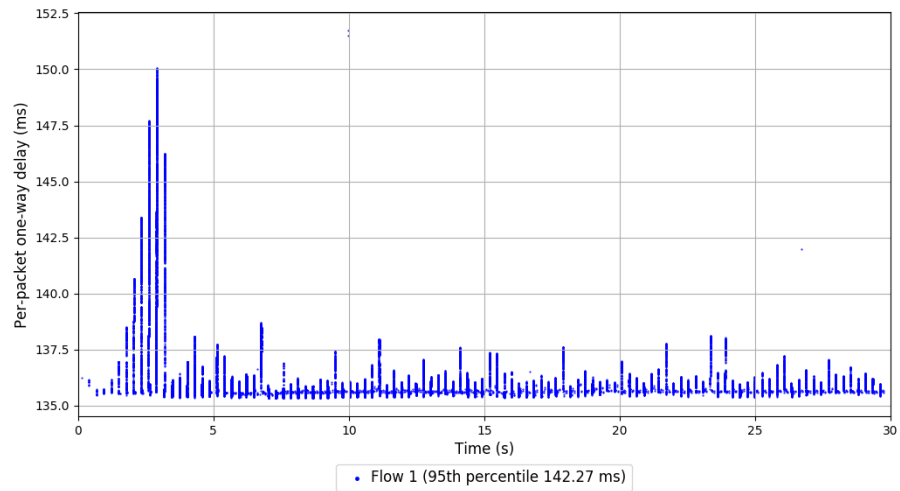
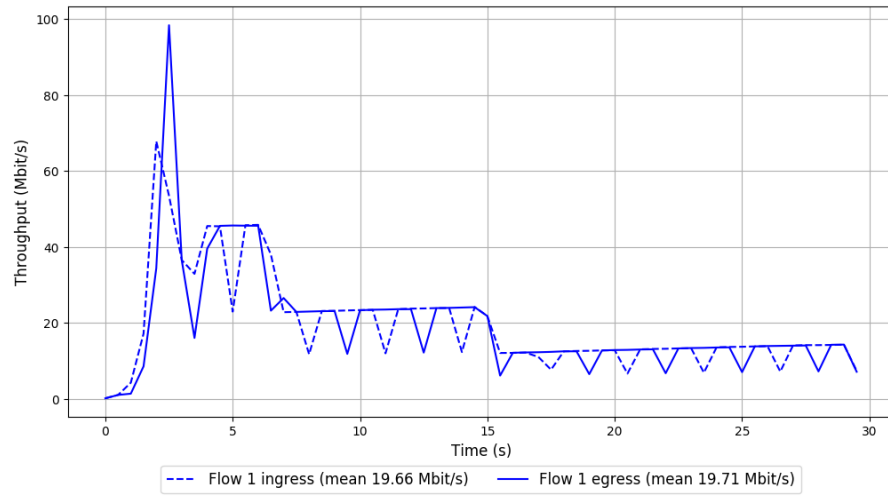
-- Flow 1:

Average throughput: 19.71 Mbit/s

95th percentile per-packet one-way delay: 142.266 ms

Loss rate: 0.63%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 15:56:32

End at: 2017-11-30 15:57:02

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 136.952 ms

Loss rate: 0.37%

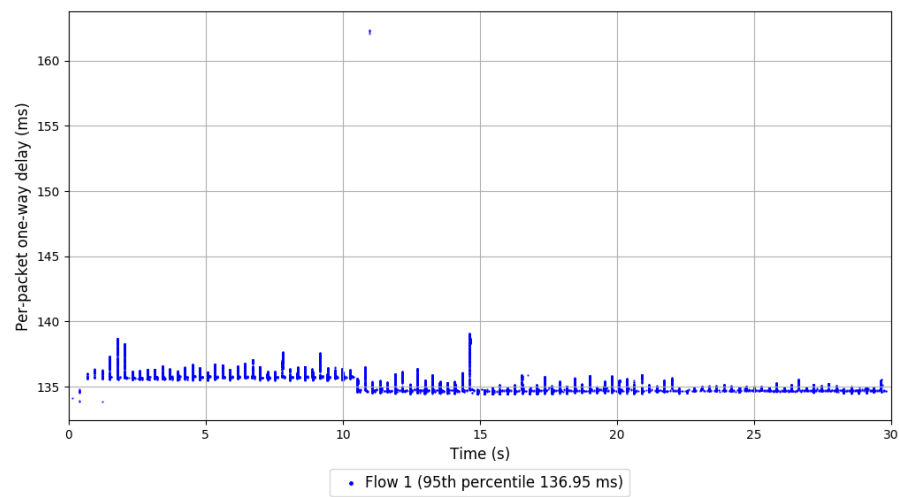
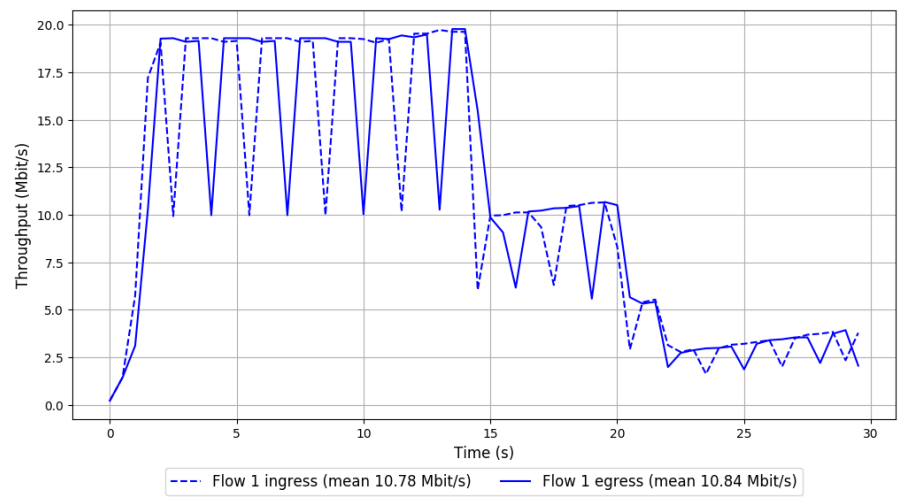
-- Flow 1:

Average throughput: 10.84 Mbit/s

95th percentile per-packet one-way delay: 136.952 ms

Loss rate: 0.37%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 16:08:04

End at: 2017-11-30 16:08:34

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 143.598 ms

Loss rate: 0.94%

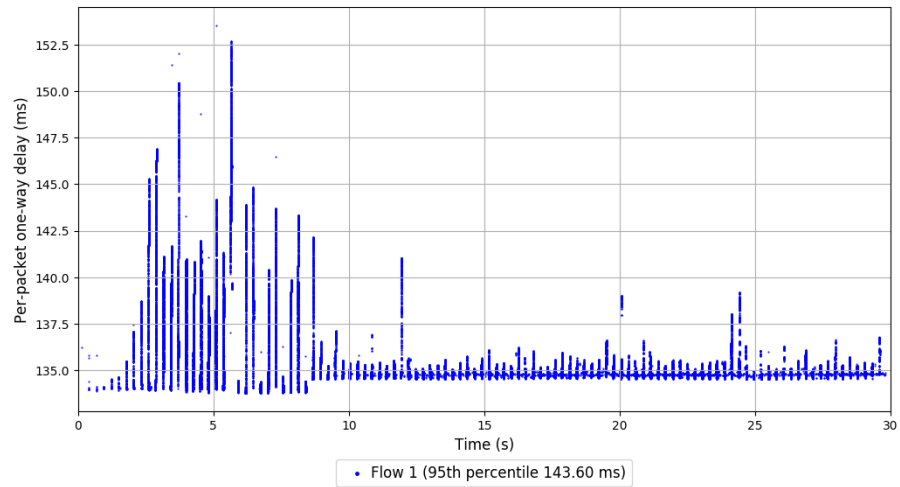
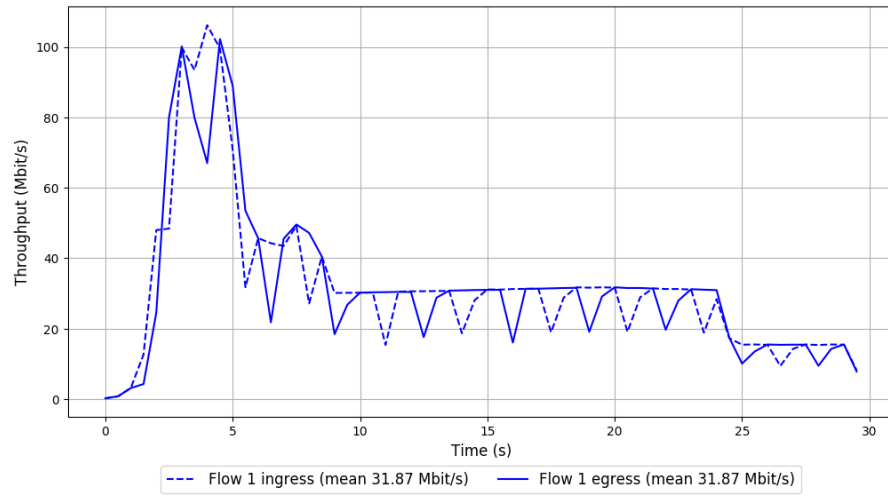
-- Flow 1:

Average throughput: 31.87 Mbit/s

95th percentile per-packet one-way delay: 143.598 ms

Loss rate: 0.94%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 16:19:36

End at: 2017-11-30 16:20:06

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 136.531 ms

Loss rate: 0.75%

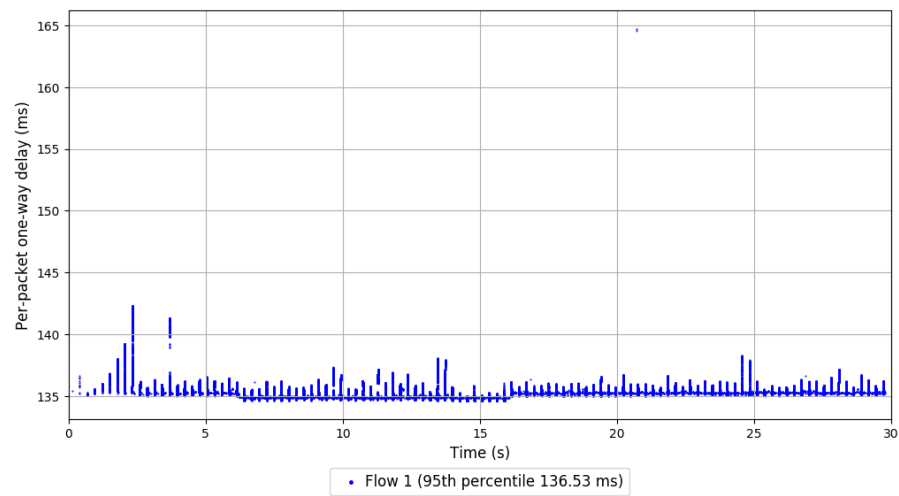
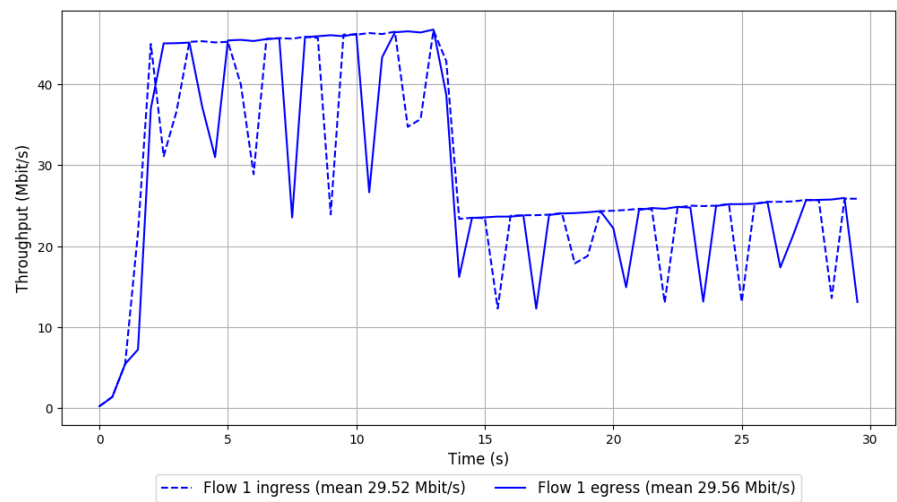
-- Flow 1:

Average throughput: 29.56 Mbit/s

95th percentile per-packet one-way delay: 136.531 ms

Loss rate: 0.75%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 16:31:07

End at: 2017-11-30 16:31:37

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 144.035 ms

Loss rate: 0.74%

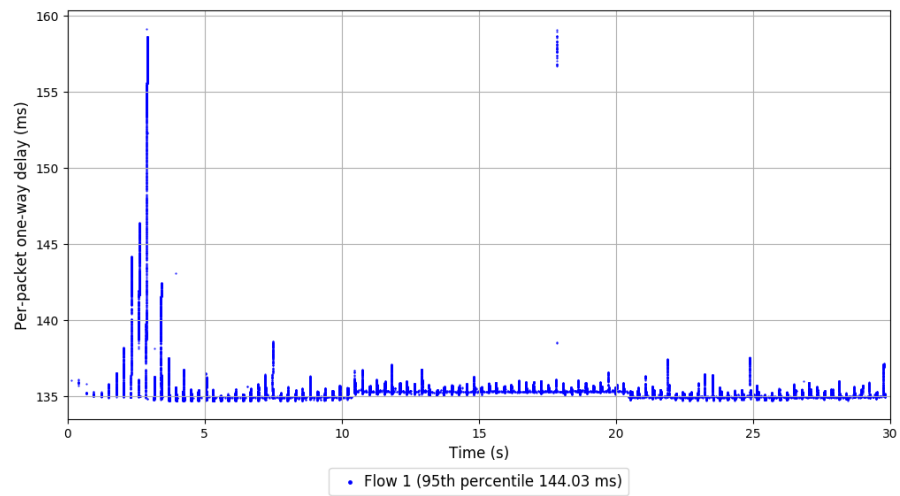
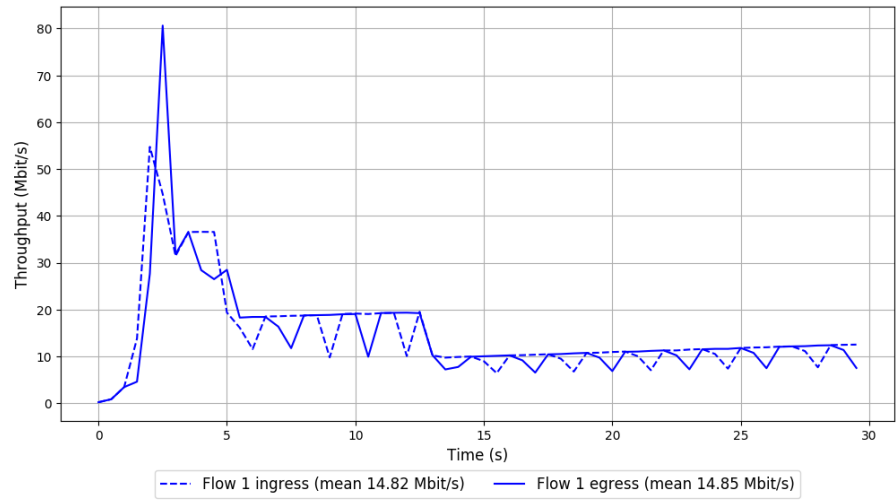
-- Flow 1:

Average throughput: 14.85 Mbit/s

95th percentile per-packet one-way delay: 144.035 ms

Loss rate: 0.74%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 16:42:29

End at: 2017-11-30 16:42:59

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 143.615 ms

Loss rate: 0.51%

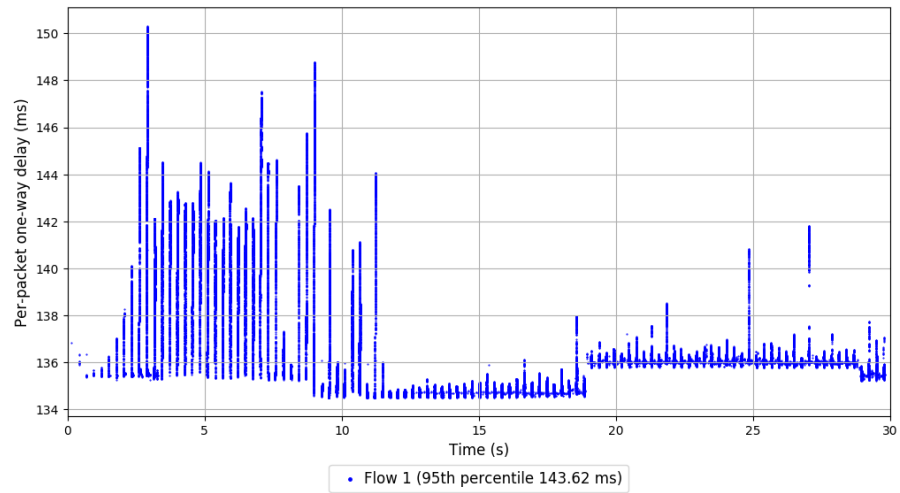
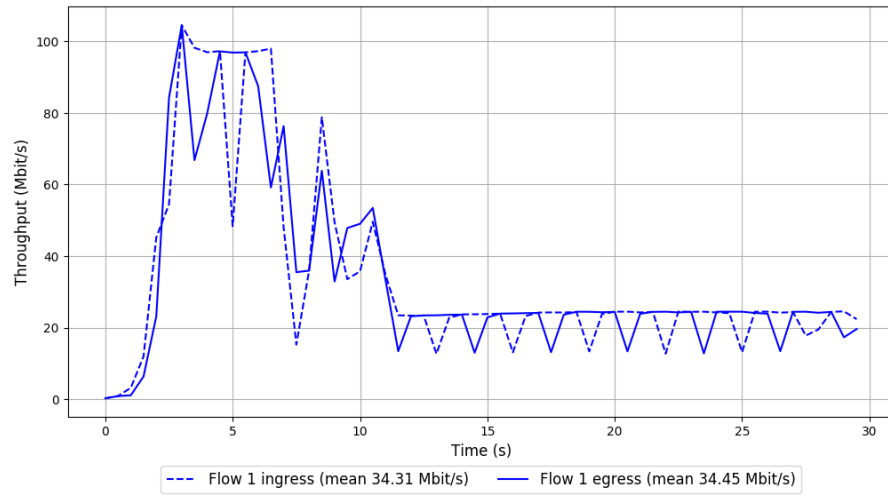
-- Flow 1:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 143.615 ms

Loss rate: 0.51%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 16:53:53

End at: 2017-11-30 16:54:23

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.10 Mbit/s

95th percentile per-packet one-way delay: 138.635 ms

Loss rate: 0.53%

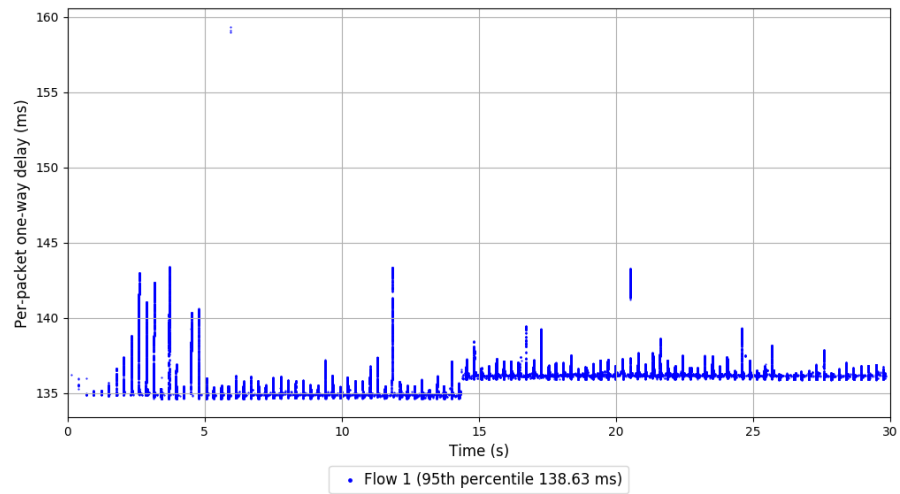
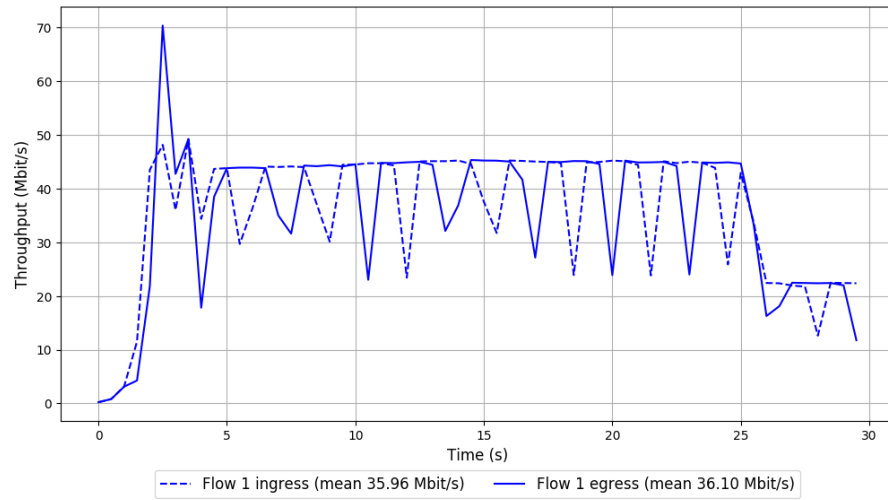
-- Flow 1:

Average throughput: 36.10 Mbit/s

95th percentile per-packet one-way delay: 138.635 ms

Loss rate: 0.53%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 17:05:31

End at: 2017-11-30 17:06:01

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.92 Mbit/s

95th percentile per-packet one-way delay: 141.320 ms

Loss rate: 0.63%

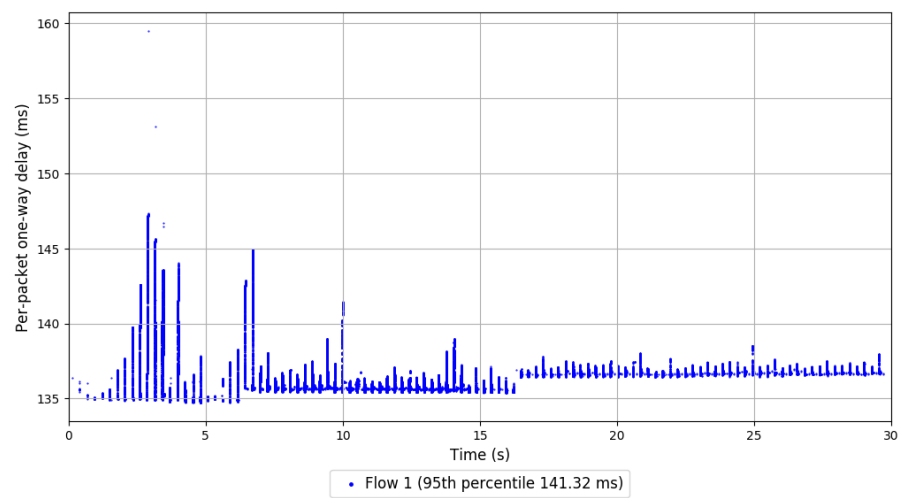
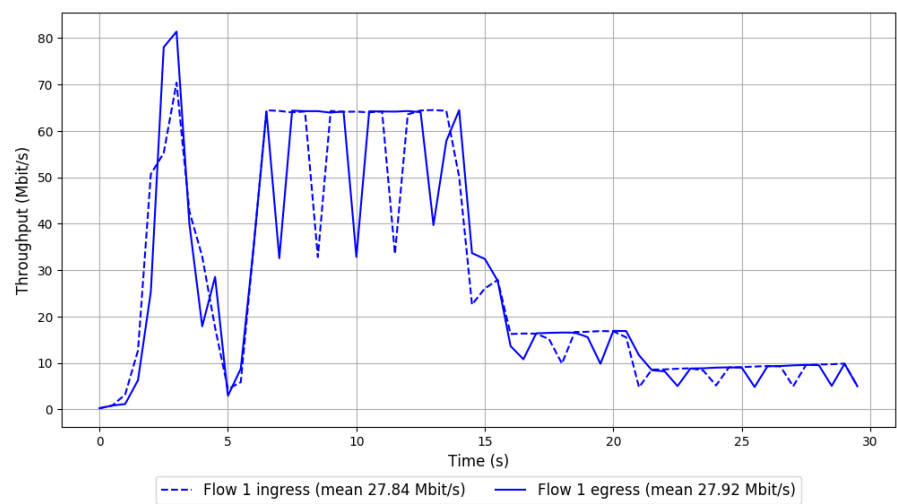
-- Flow 1:

Average throughput: 27.92 Mbit/s

95th percentile per-packet one-way delay: 141.320 ms

Loss rate: 0.63%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-30 15:20:56

End at: 2017-11-30 15:21:26

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.91 Mbit/s

95th percentile per-packet one-way delay: 180.889 ms

Loss rate: 2.75%

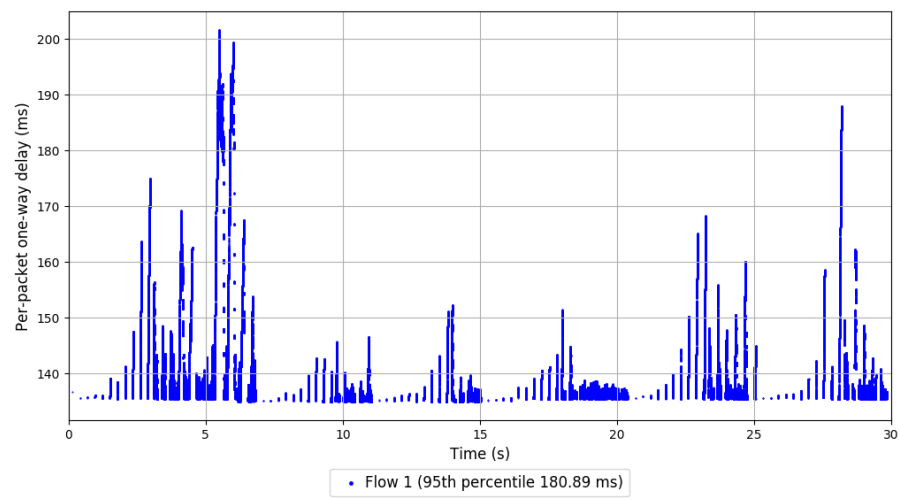
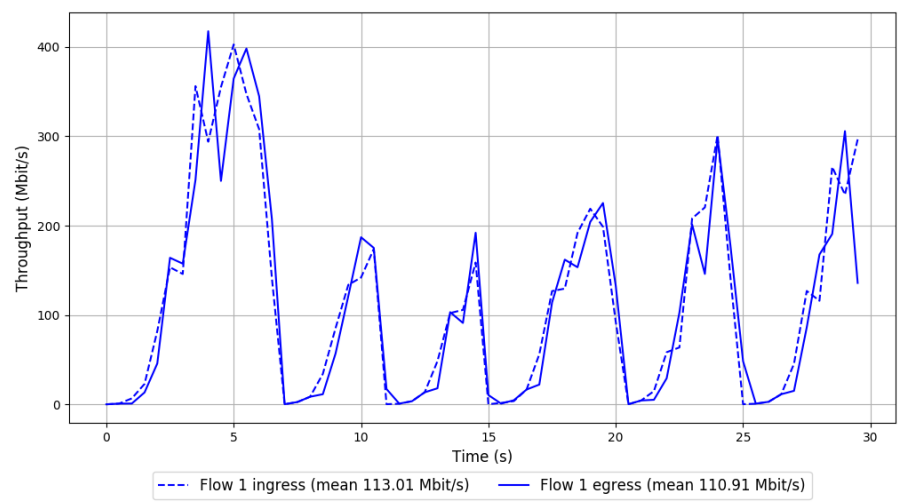
-- Flow 1:

Average throughput: 110.91 Mbit/s

95th percentile per-packet one-way delay: 180.889 ms

Loss rate: 2.75%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 15:32:27

End at: 2017-11-30 15:32:57

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.77 Mbit/s

95th percentile per-packet one-way delay: 165.658 ms

Loss rate: 1.26%

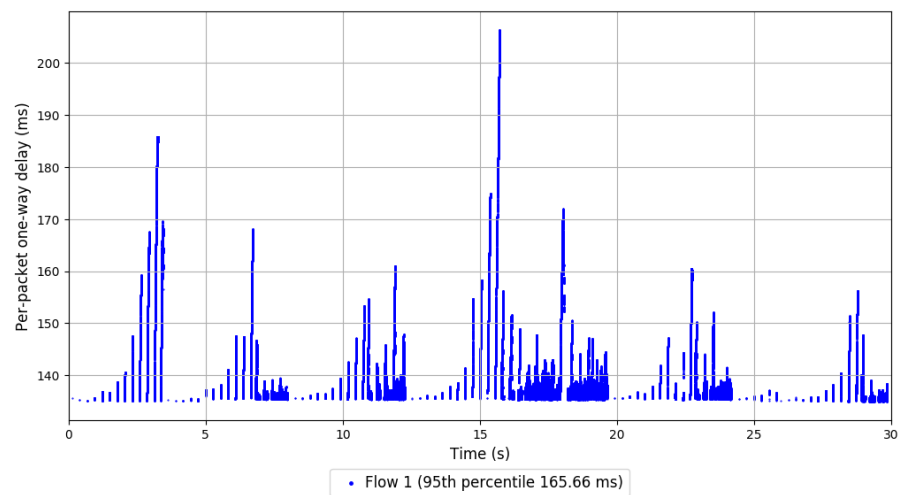
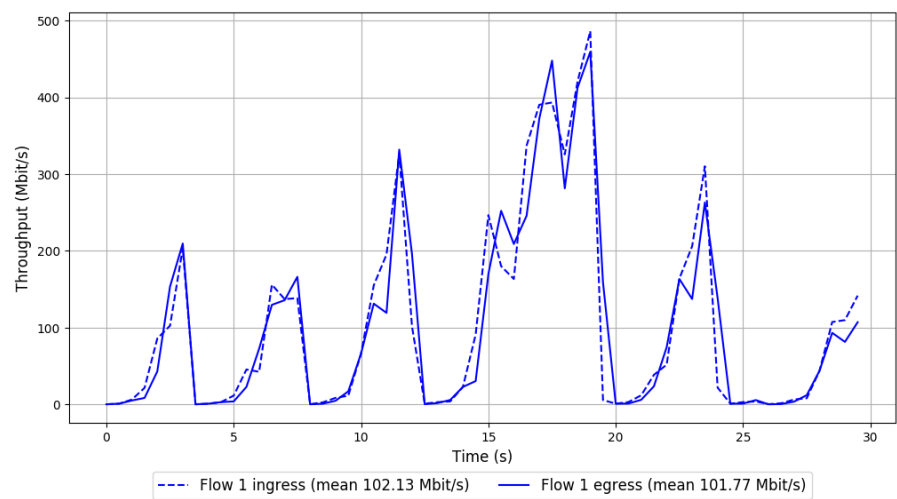
-- Flow 1:

Average throughput: 101.77 Mbit/s

95th percentile per-packet one-way delay: 165.658 ms

Loss rate: 1.26%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 15:44:00

End at: 2017-11-30 15:44:30

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.45 Mbit/s

95th percentile per-packet one-way delay: 221.908 ms

Loss rate: 4.03%

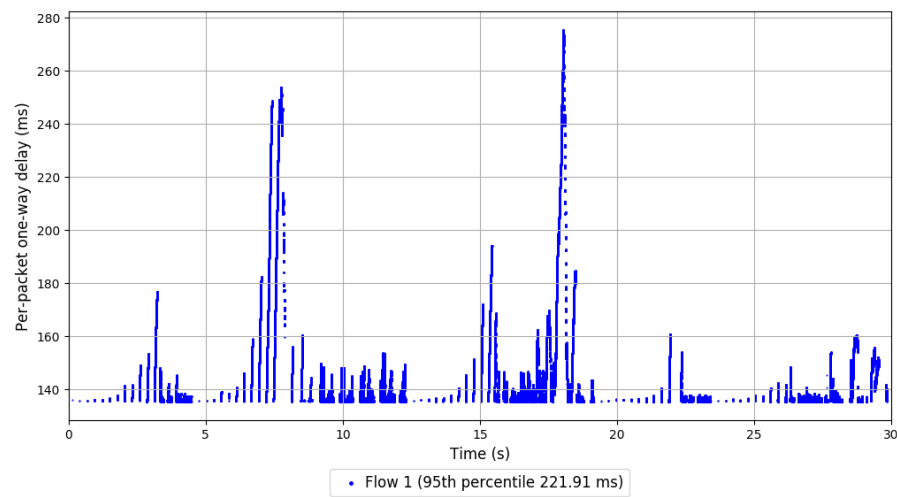
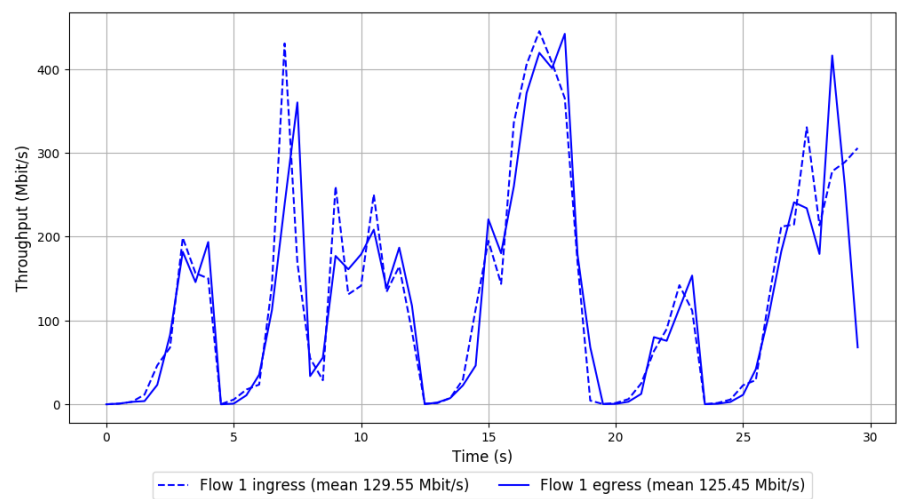
-- Flow 1:

Average throughput: 125.45 Mbit/s

95th percentile per-packet one-way delay: 221.908 ms

Loss rate: 4.03%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 15:55:36

End at: 2017-11-30 15:56:06

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.03 Mbit/s

95th percentile per-packet one-way delay: 156.772 ms

Loss rate: 0.41%

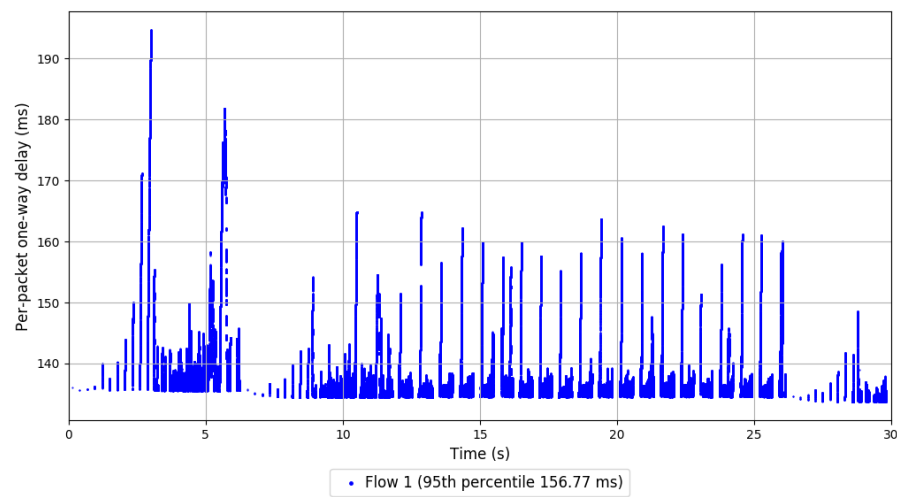
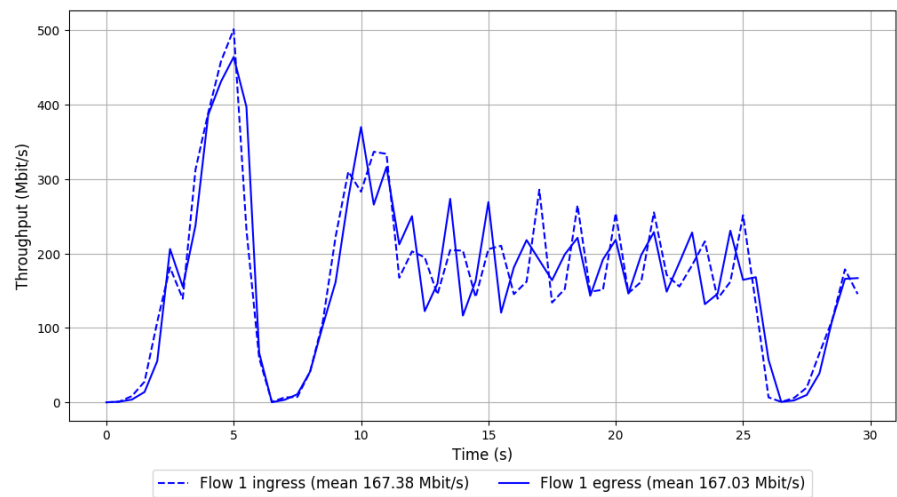
-- Flow 1:

Average throughput: 167.03 Mbit/s

95th percentile per-packet one-way delay: 156.772 ms

Loss rate: 0.41%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 16:07:17

End at: 2017-11-30 16:07:47

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.43 Mbit/s

95th percentile per-packet one-way delay: 182.309 ms

Loss rate: 0.28%

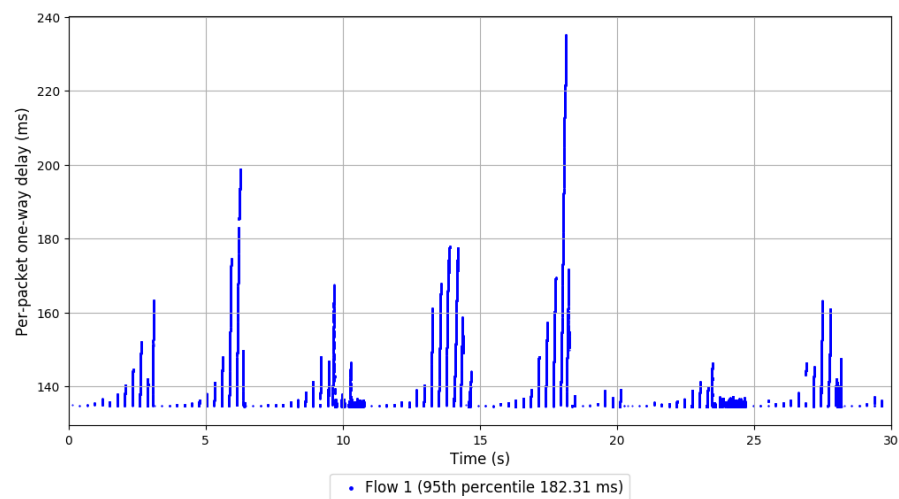
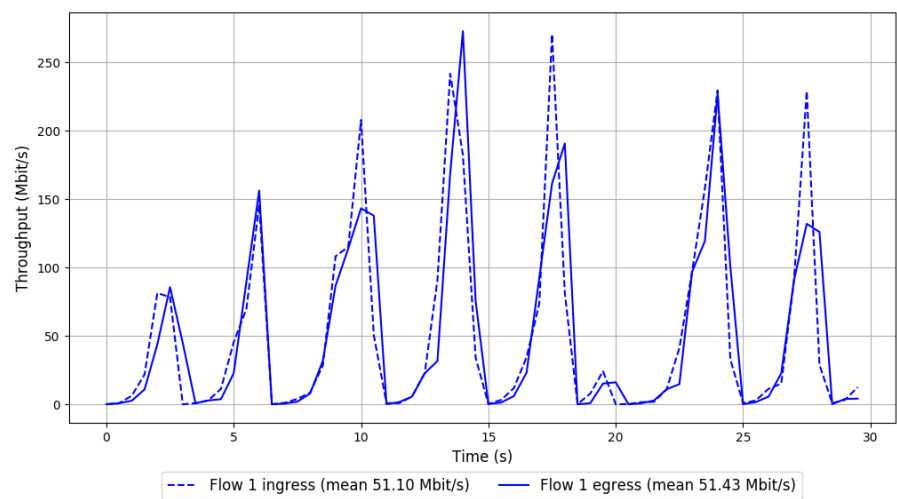
-- Flow 1:

Average throughput: 51.43 Mbit/s

95th percentile per-packet one-way delay: 182.309 ms

Loss rate: 0.28%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-30 16:18:41

End at: 2017-11-30 16:19:11

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.05 Mbit/s

95th percentile per-packet one-way delay: 166.285 ms

Loss rate: 1.36%

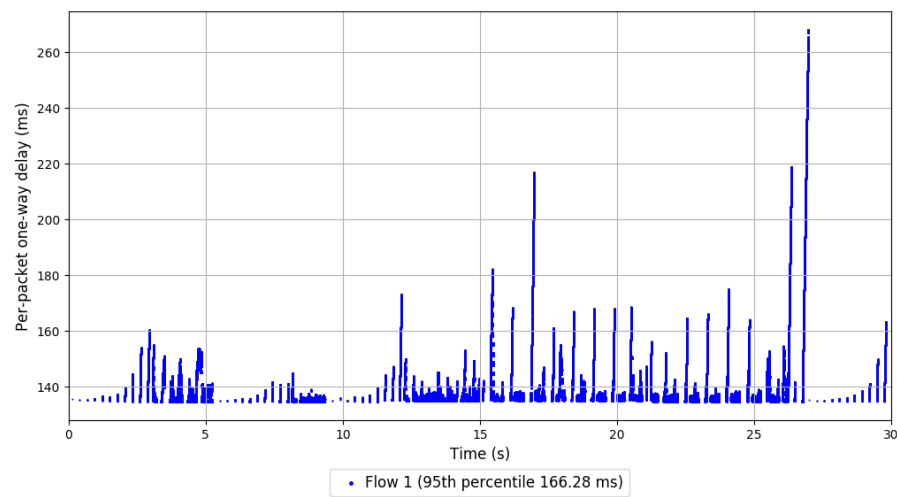
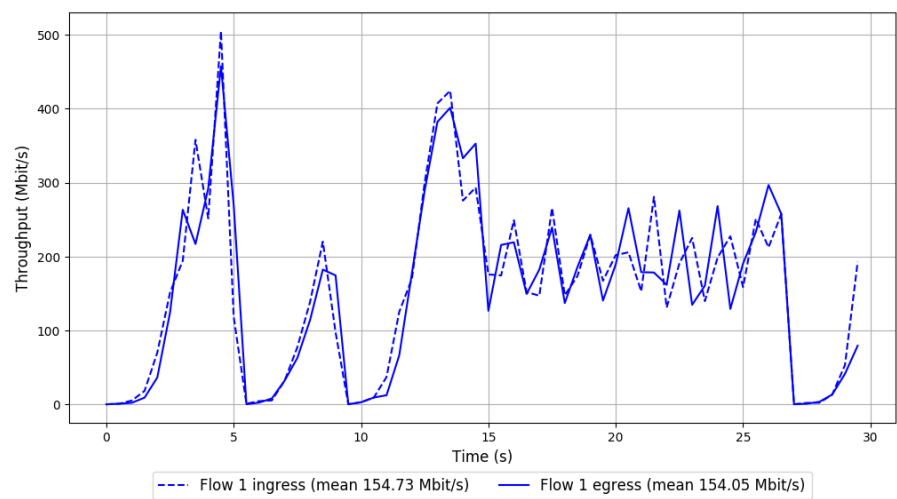
-- Flow 1:

Average throughput: 154.05 Mbit/s

95th percentile per-packet one-way delay: 166.285 ms

Loss rate: 1.36%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-30 16:30:18

End at: 2017-11-30 16:30:48

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 163.073 ms

Loss rate: 2.89%

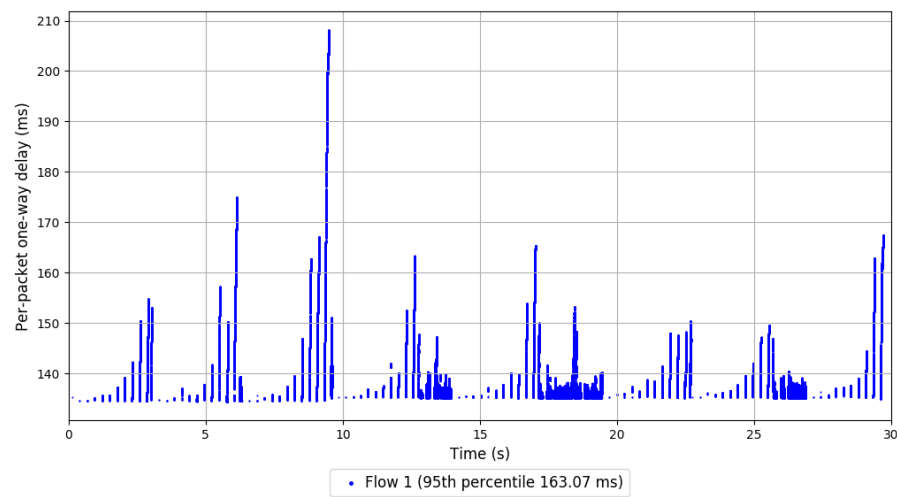
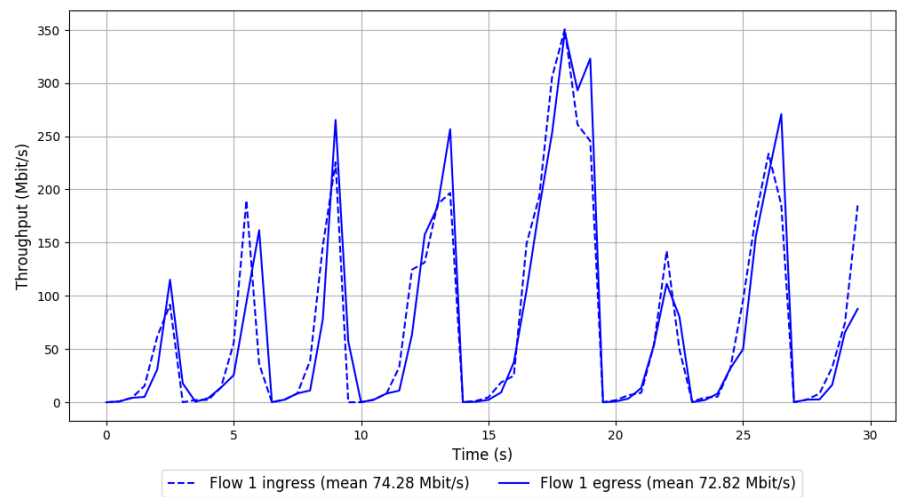
-- Flow 1:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 163.073 ms

Loss rate: 2.89%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-30 16:41:41

End at: 2017-11-30 16:42:11

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 196.478 ms

Loss rate: 0.08%

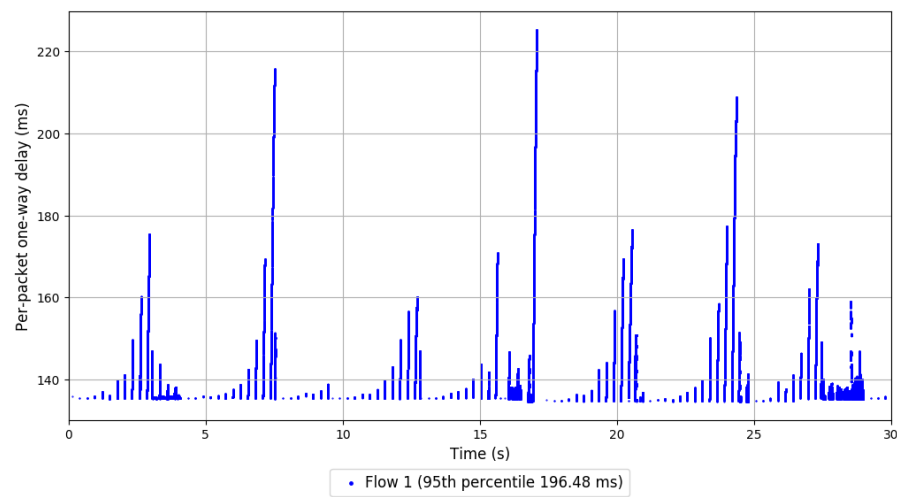
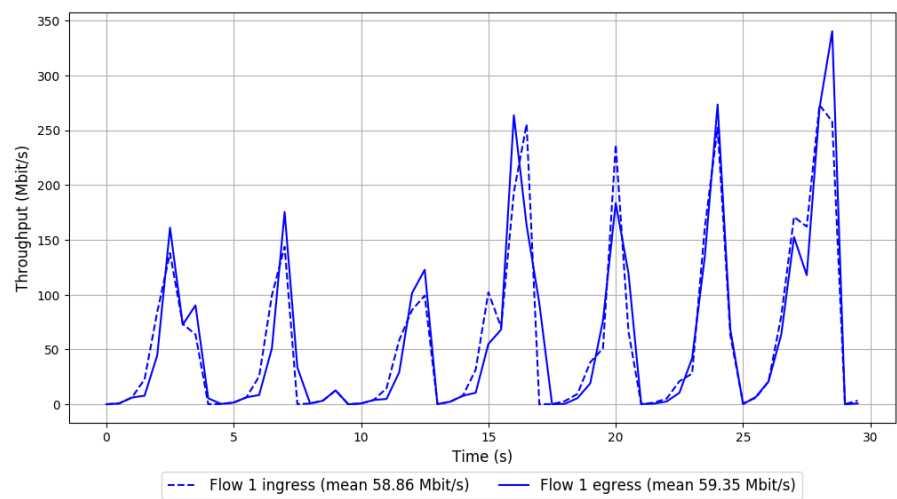
-- Flow 1:

Average throughput: 59.35 Mbit/s

95th percentile per-packet one-way delay: 196.478 ms

Loss rate: 0.08%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-30 16:53:04

End at: 2017-11-30 16:53:34

Below is generated by plot.py at 2017-11-30 19:29:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 174.399 ms

Loss rate: 0.01%

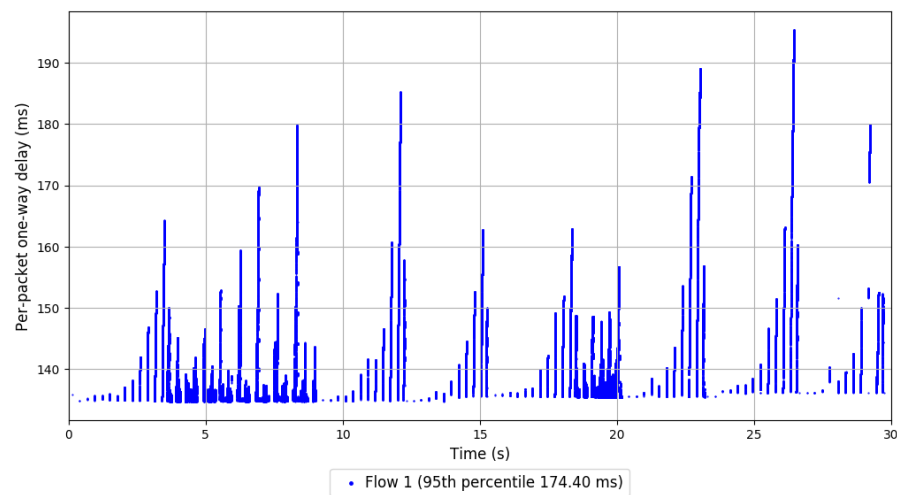
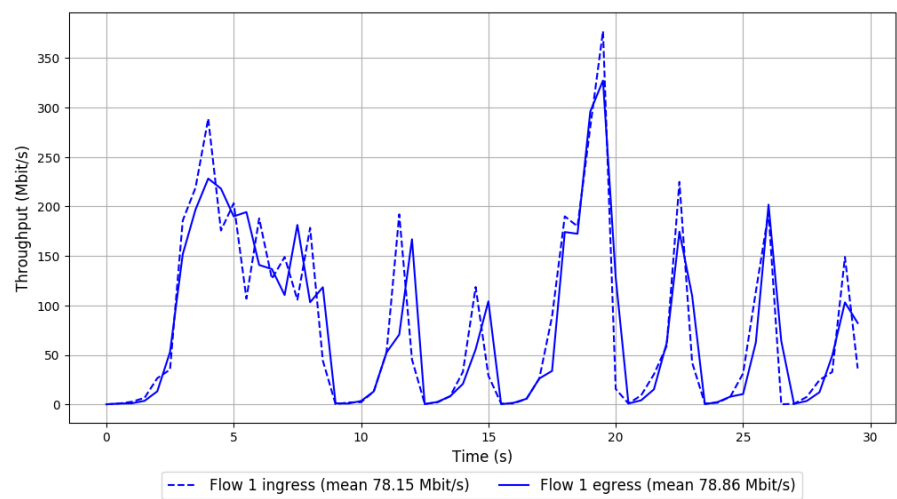
-- Flow 1:

Average throughput: 78.86 Mbit/s

95th percentile per-packet one-way delay: 174.399 ms

Loss rate: 0.01%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-30 17:04:36

End at: 2017-11-30 17:05:06

Below is generated by plot.py at 2017-11-30 19:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.74 Mbit/s

95th percentile per-packet one-way delay: 172.190 ms

Loss rate: 1.58%

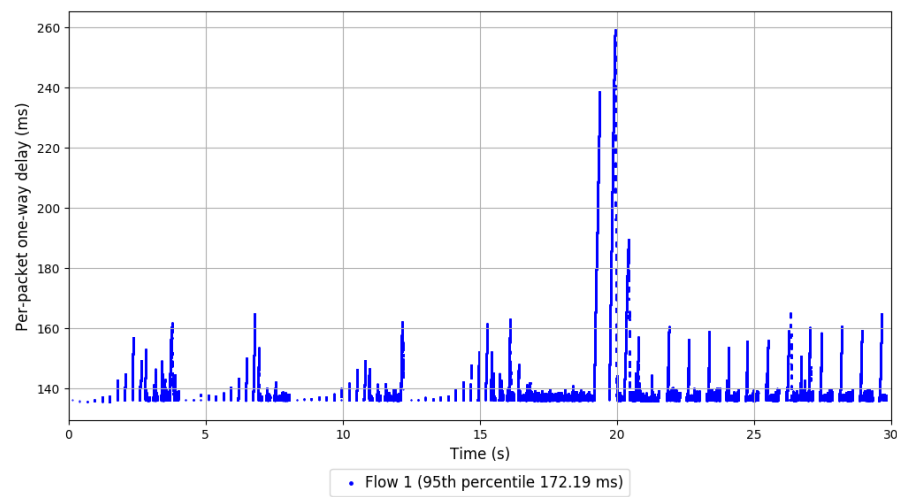
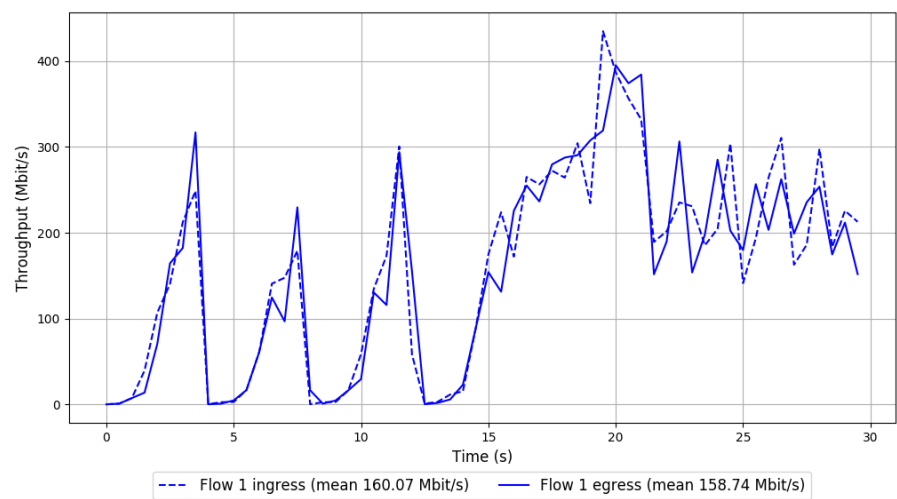
-- Flow 1:

Average throughput: 158.74 Mbit/s

95th percentile per-packet one-way delay: 172.190 ms

Loss rate: 1.58%

Run 10: Report of Verus — Data Link

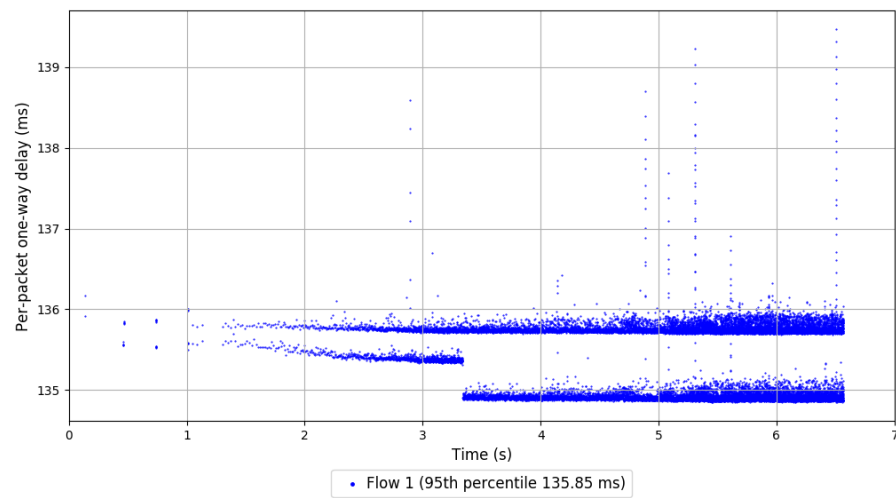
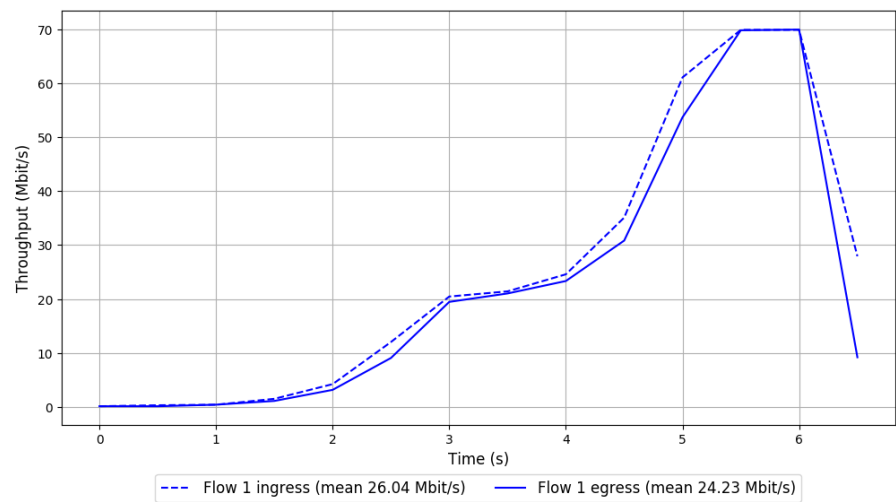


Run 1: Statistics of Copa

Start at: 2017-11-30 15:16:26

End at: 2017-11-30 15:16:56

Run 1: Report of Copa — Data Link

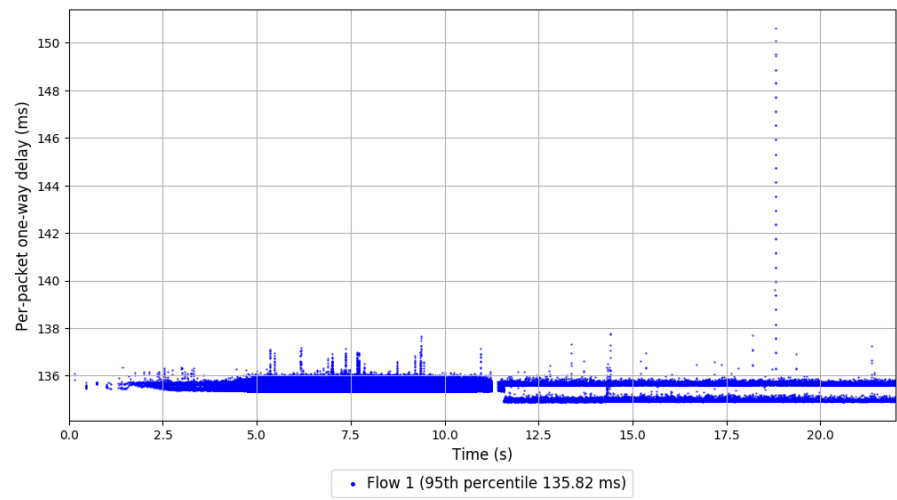
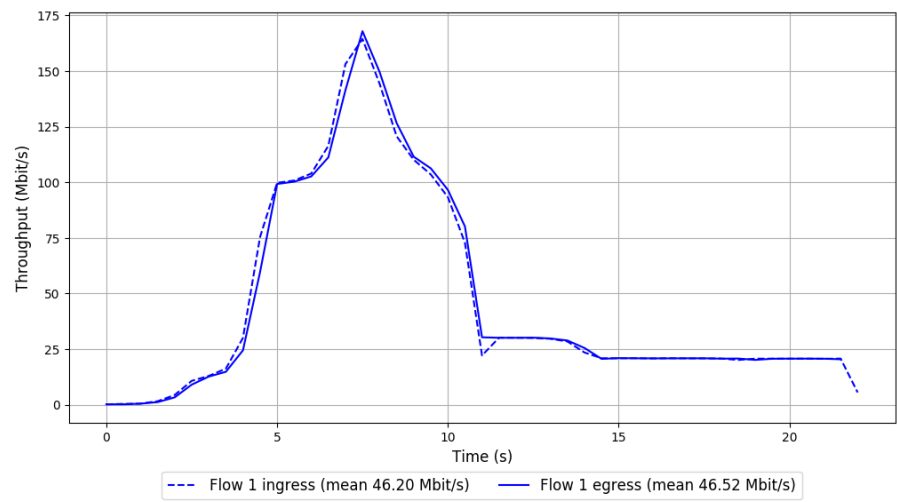


Run 2: Statistics of Copa

Start at: 2017-11-30 15:27:53

End at: 2017-11-30 15:28:23

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 15:39:23

End at: 2017-11-30 15:39:53

Below is generated by plot.py at 2017-11-30 19:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.60 Mbit/s

95th percentile per-packet one-way delay: 135.550 ms

Loss rate: 1.19%

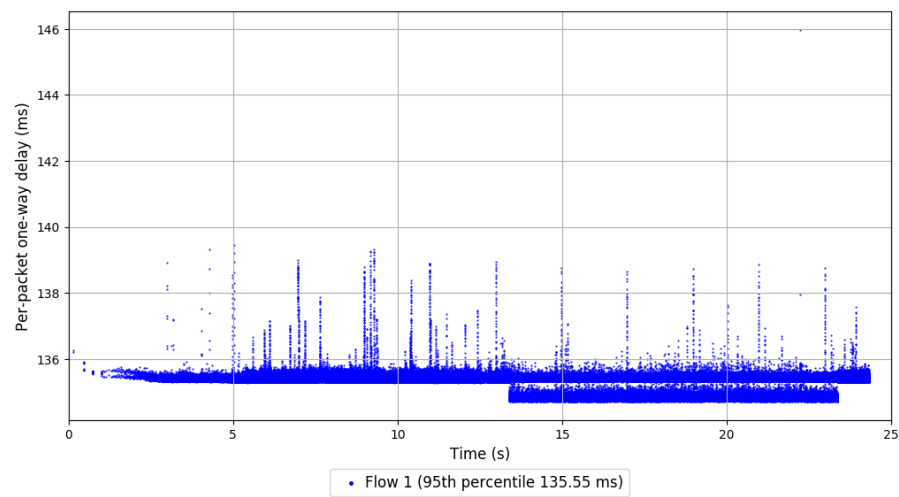
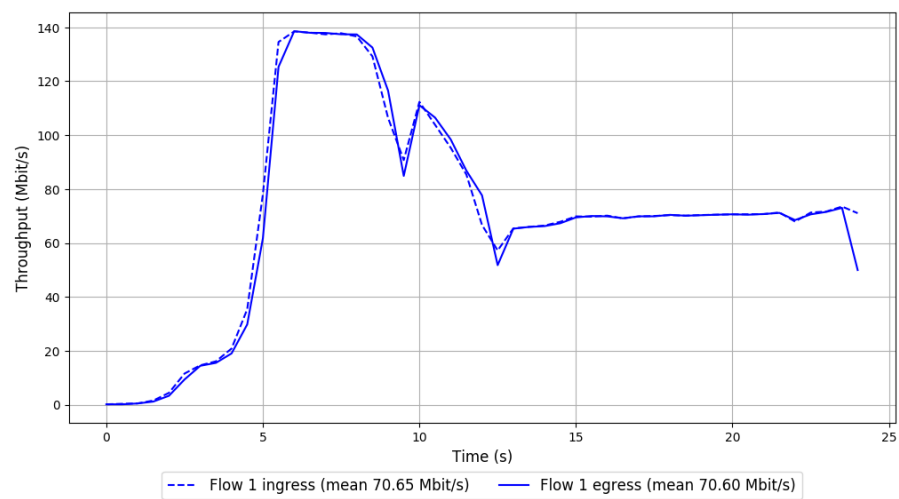
-- Flow 1:

Average throughput: 70.60 Mbit/s

95th percentile per-packet one-way delay: 135.550 ms

Loss rate: 1.19%

Run 3: Report of Copa — Data Link

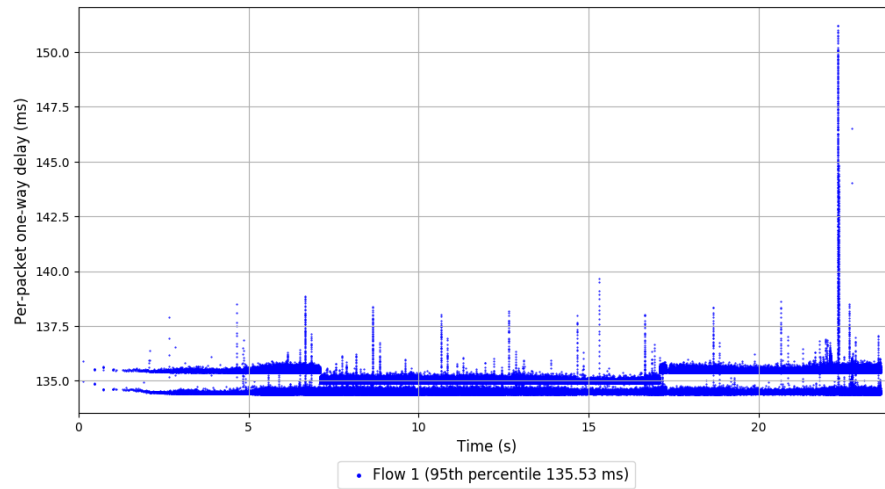
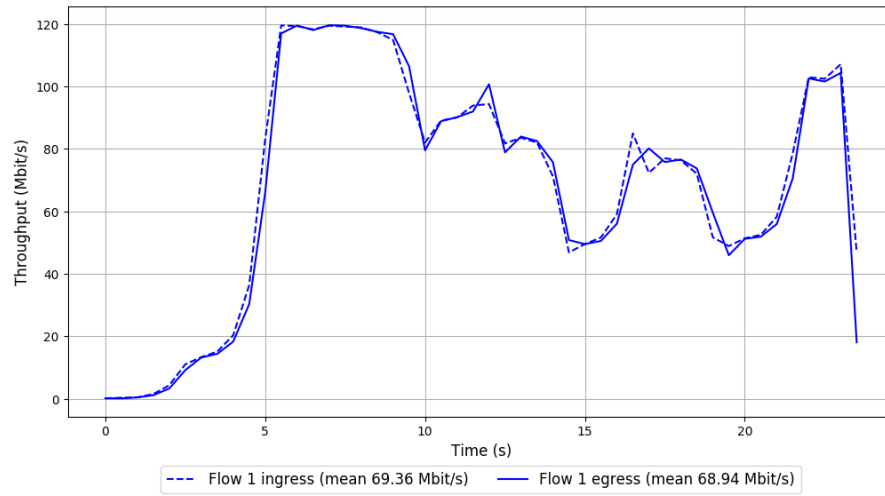


Run 4: Statistics of Copa

Start at: 2017-11-30 15:50:59

End at: 2017-11-30 15:51:29

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 16:02:39

End at: 2017-11-30 16:03:09

Below is generated by plot.py at 2017-11-30 19:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 135.806 ms

Loss rate: 1.11%

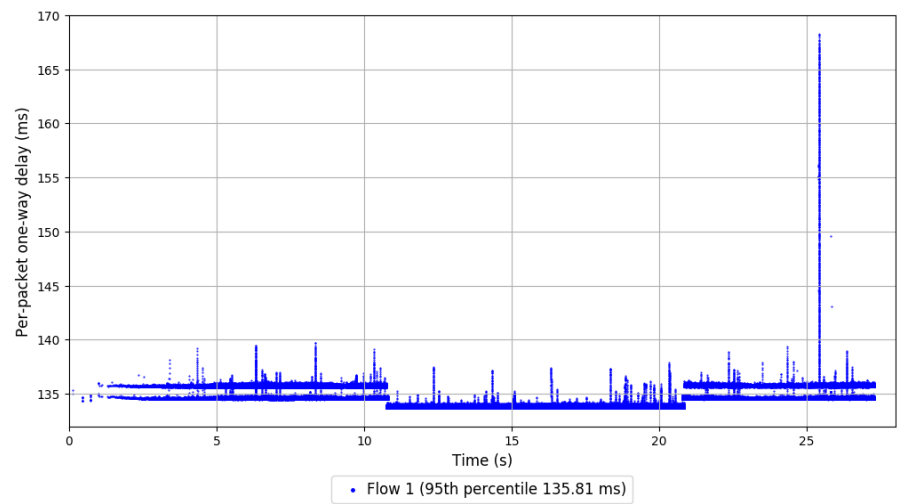
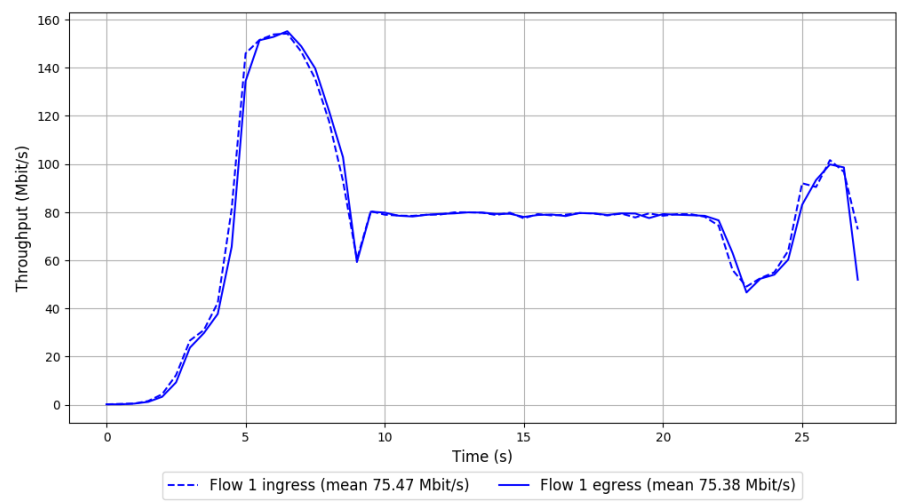
-- Flow 1:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 135.806 ms

Loss rate: 1.11%

Run 5: Report of Copa — Data Link

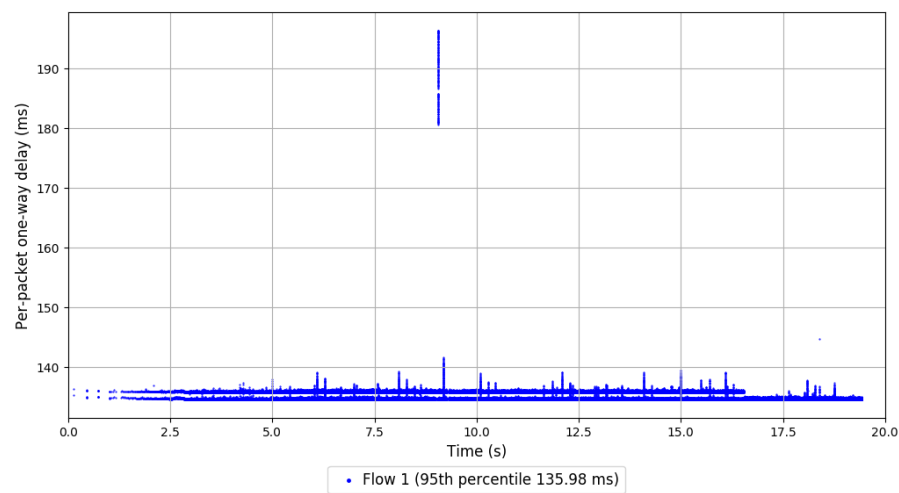
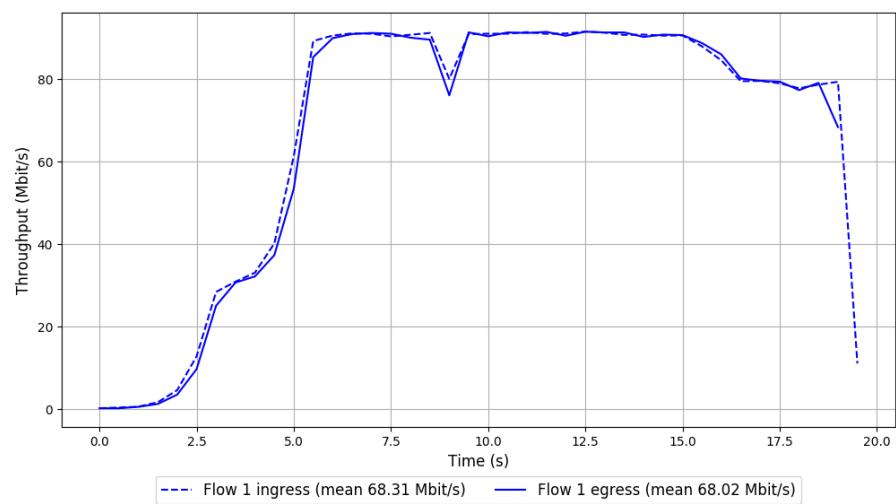


Run 6: Statistics of Copa

Start at: 2017-11-30 16:14:05

End at: 2017-11-30 16:14:35

Run 6: Report of Copa — Data Link

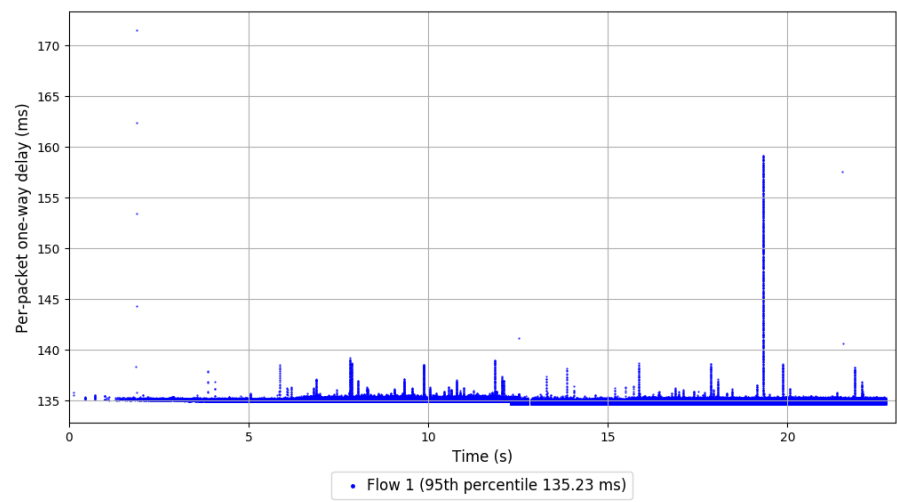
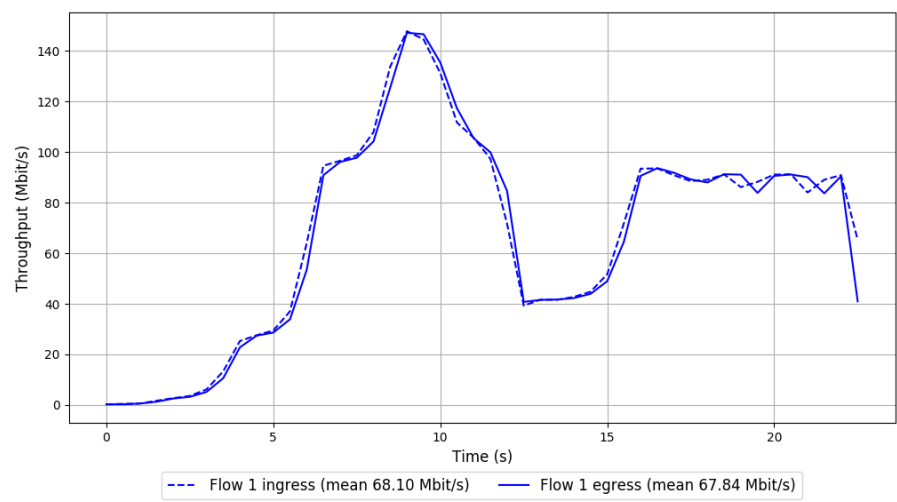


Run 7: Statistics of Copa

Start at: 2017-11-30 16:25:43

End at: 2017-11-30 16:26:13

Run 7: Report of Copa — Data Link

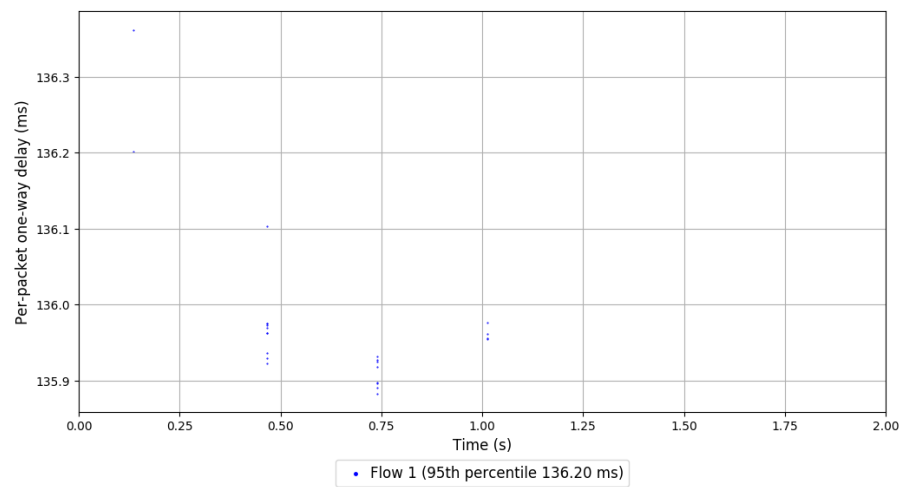
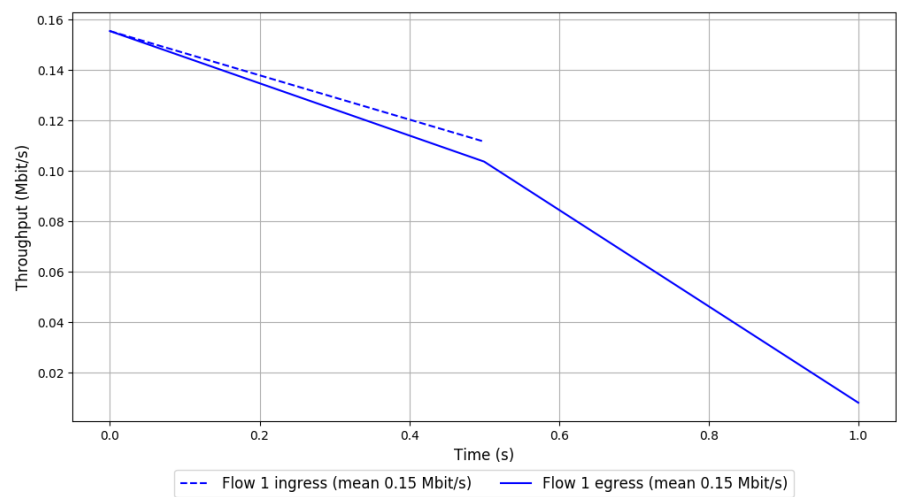


Run 8: Statistics of Copa

Start at: 2017-11-30 16:37:12

End at: 2017-11-30 16:37:42

Run 8: Report of Copa — Data Link

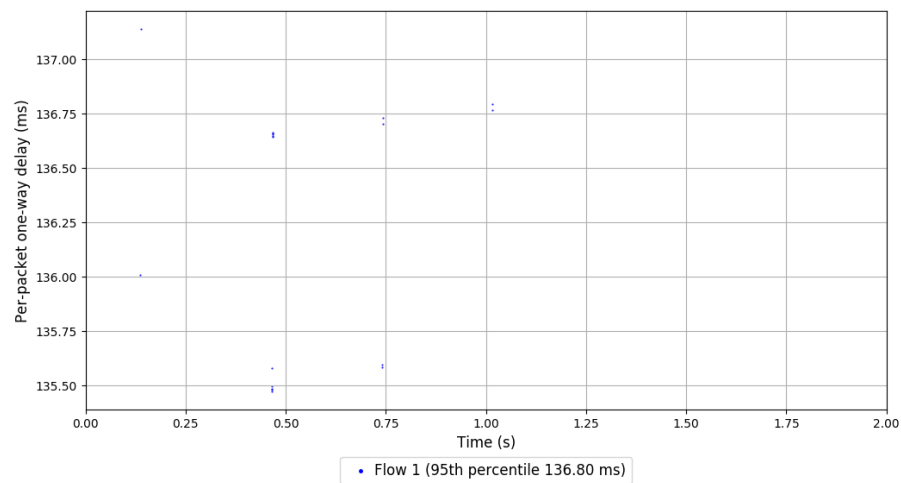
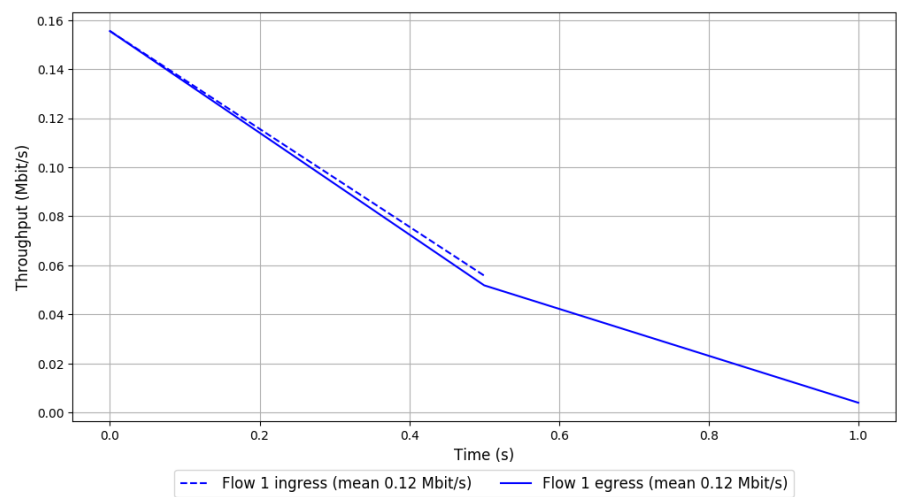


Run 9: Statistics of Copa

Start at: 2017-11-30 16:48:35

End at: 2017-11-30 16:49:05

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-30 17:00:00

End at: 2017-11-30 17:00:30

Below is generated by plot.py at 2017-11-30 19:31:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.64 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 1.20%

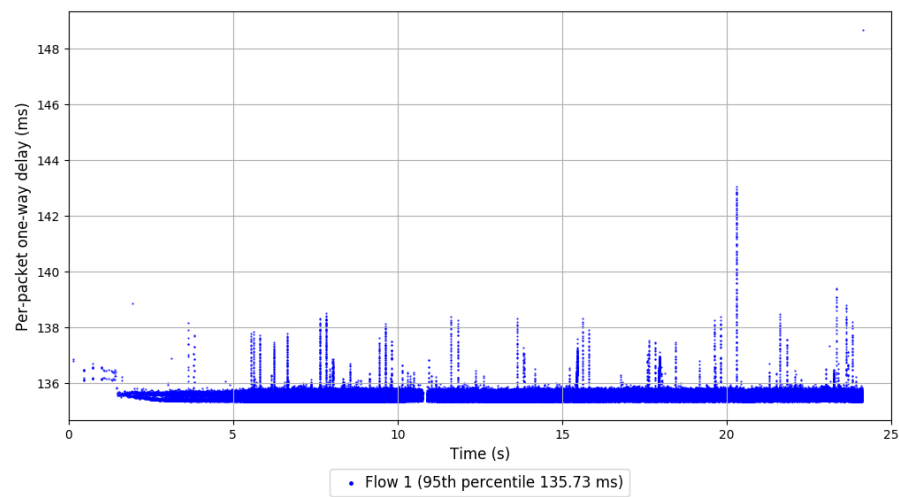
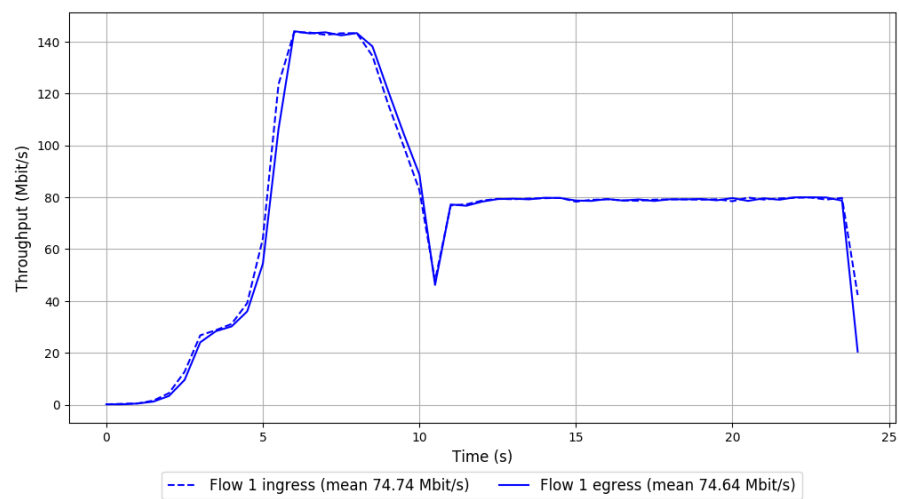
-- Flow 1:

Average throughput: 74.64 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 1.20%

Run 10: Report of Copa — Data Link

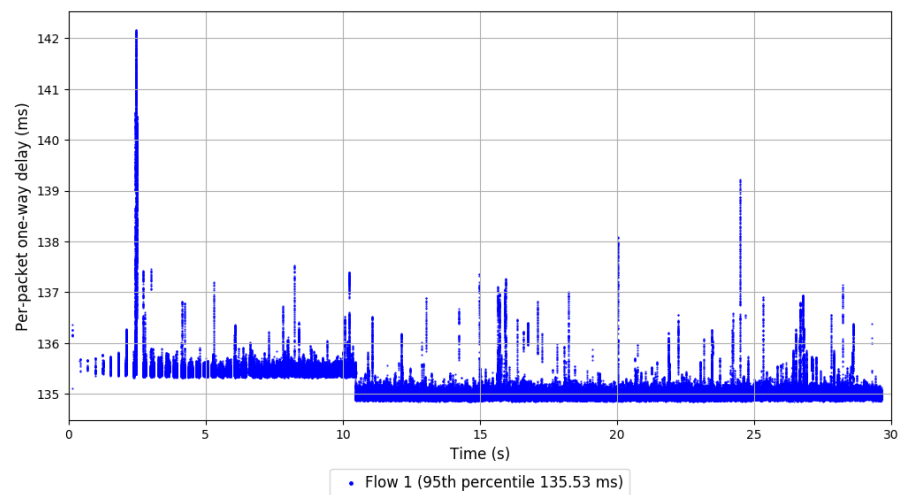
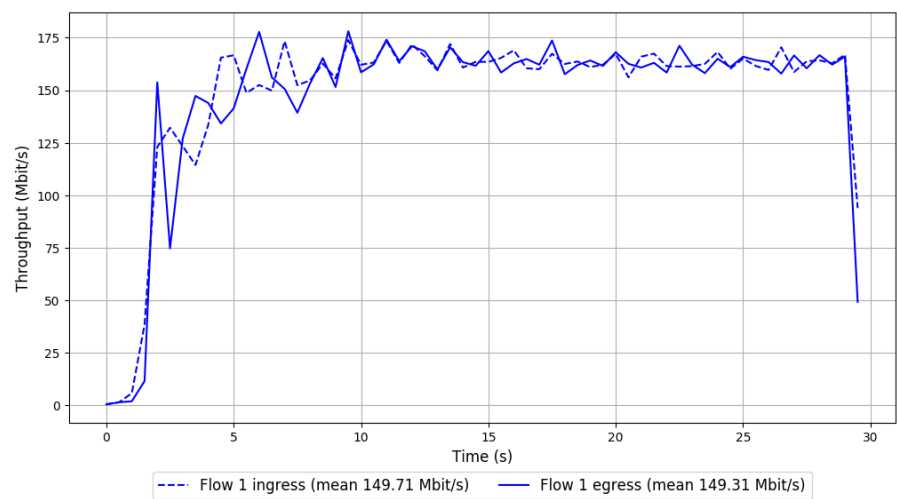


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 15:20:02
End at: 2017-11-30 15:20:32

# Below is generated by plot.py at 2017-11-30 19:31:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.31 Mbit/s
95th percentile per-packet one-way delay: 135.534 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 149.31 Mbit/s
95th percentile per-packet one-way delay: 135.534 ms
Loss rate: 1.18%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-30 15:31:32

End at: 2017-11-30 15:32:03

Below is generated by plot.py at 2017-11-30 19:32:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.32 Mbit/s

95th percentile per-packet one-way delay: 135.760 ms

Loss rate: 1.07%

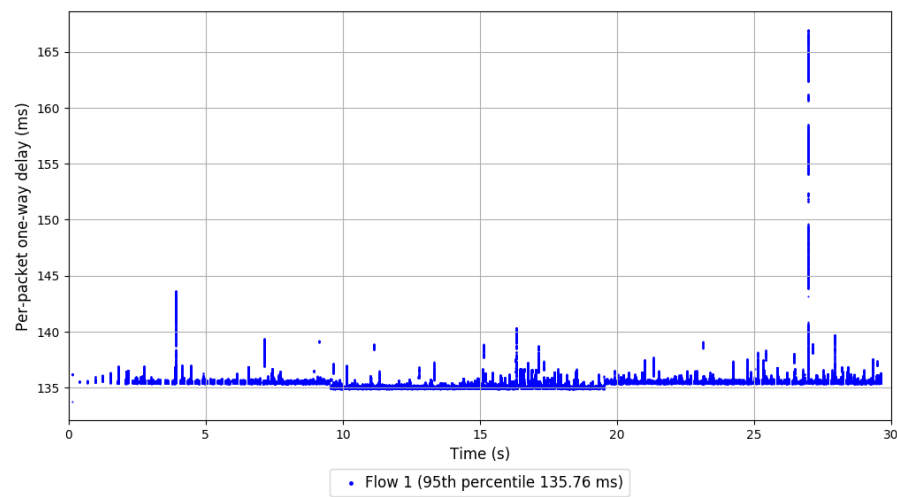
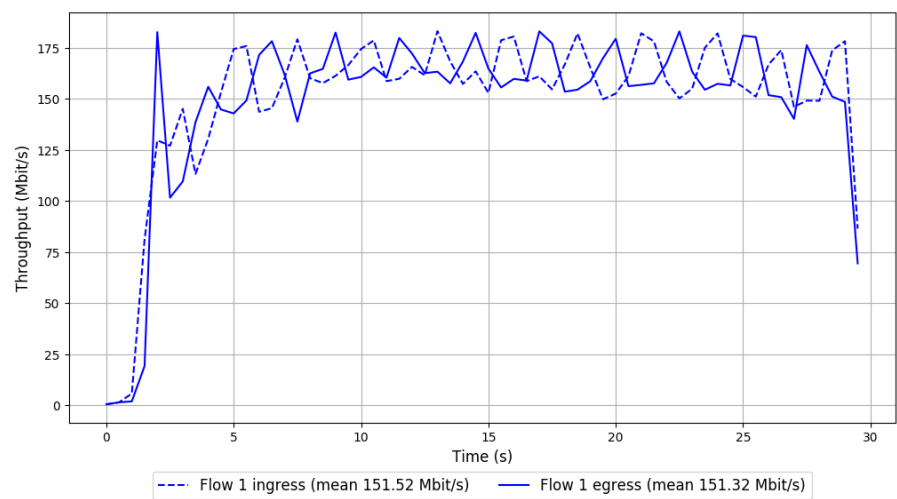
-- Flow 1:

Average throughput: 151.32 Mbit/s

95th percentile per-packet one-way delay: 135.760 ms

Loss rate: 1.07%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 15:43:05

End at: 2017-11-30 15:43:35

Below is generated by plot.py at 2017-11-30 19:32:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.65 Mbit/s

95th percentile per-packet one-way delay: 135.860 ms

Loss rate: 1.32%

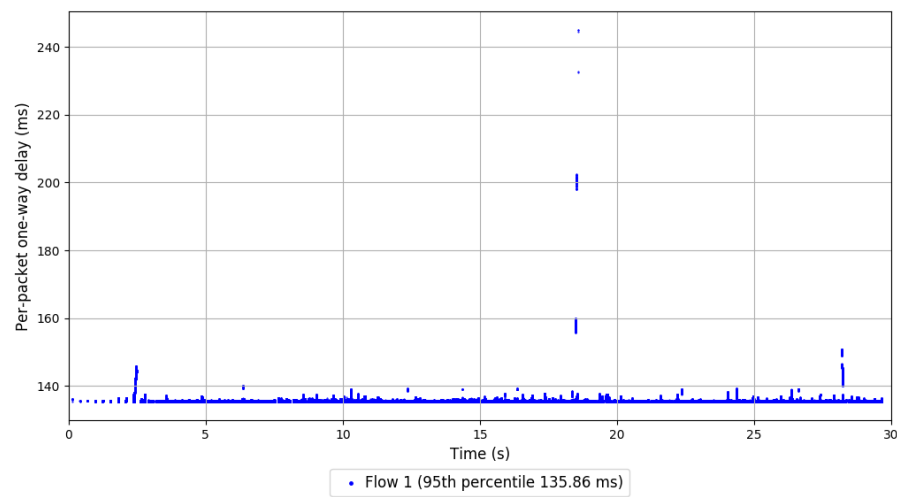
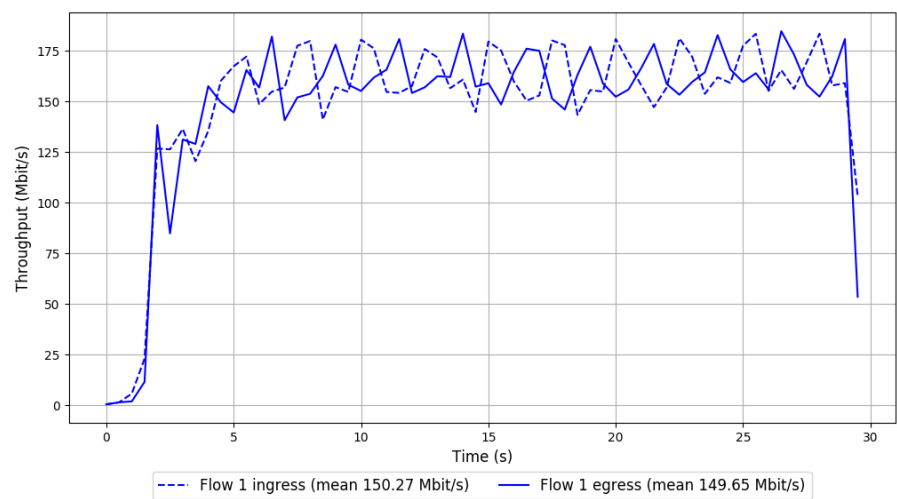
-- Flow 1:

Average throughput: 149.65 Mbit/s

95th percentile per-packet one-way delay: 135.860 ms

Loss rate: 1.32%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 15:54:41

End at: 2017-11-30 15:55:11

Below is generated by plot.py at 2017-11-30 19:32:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.84 Mbit/s

95th percentile per-packet one-way delay: 135.727 ms

Loss rate: 1.00%

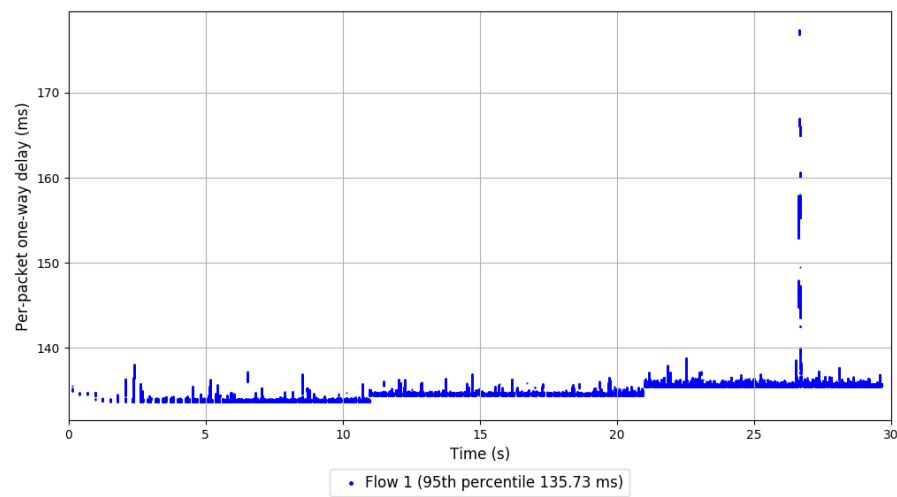
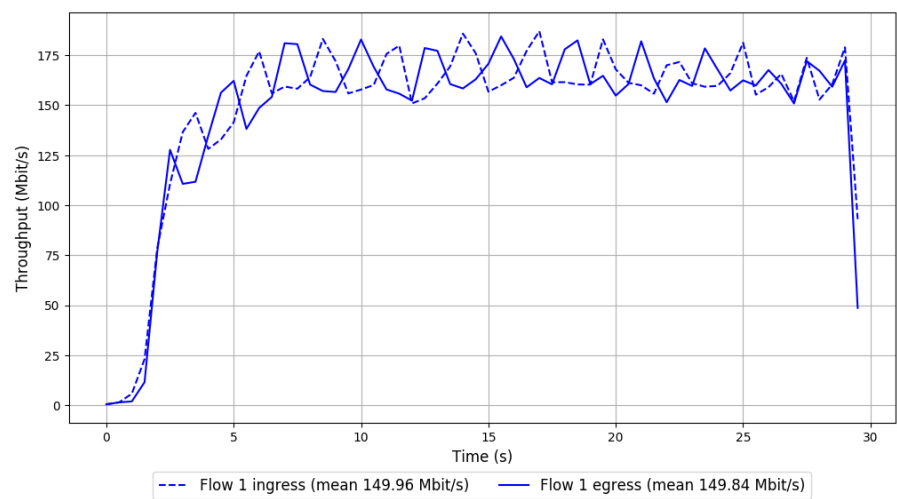
-- Flow 1:

Average throughput: 149.84 Mbit/s

95th percentile per-packet one-way delay: 135.727 ms

Loss rate: 1.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-30 16:06:22

End at: 2017-11-30 16:06:52

Below is generated by plot.py at 2017-11-30 19:33:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.61 Mbit/s

95th percentile per-packet one-way delay: 134.775 ms

Loss rate: 1.15%

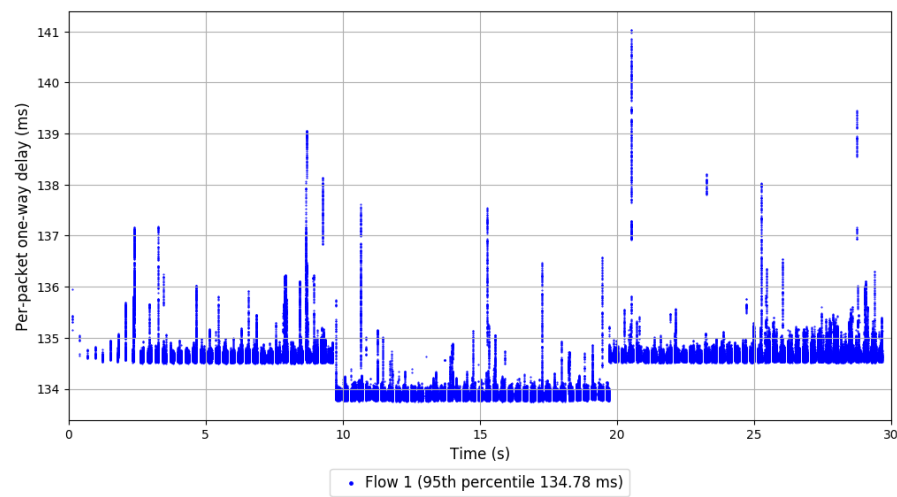
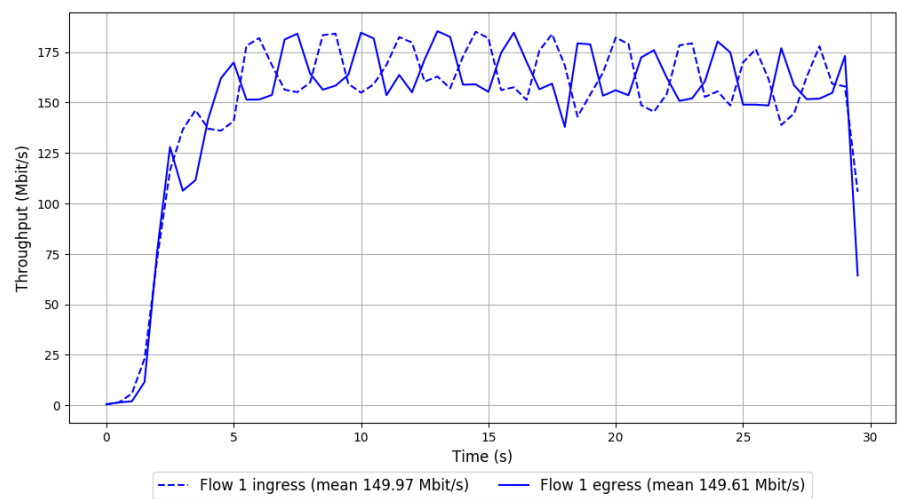
-- Flow 1:

Average throughput: 149.61 Mbit/s

95th percentile per-packet one-way delay: 134.775 ms

Loss rate: 1.15%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 16:17:46

End at: 2017-11-30 16:18:16

Below is generated by plot.py at 2017-11-30 19:33:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.93 Mbit/s

95th percentile per-packet one-way delay: 135.186 ms

Loss rate: 0.99%

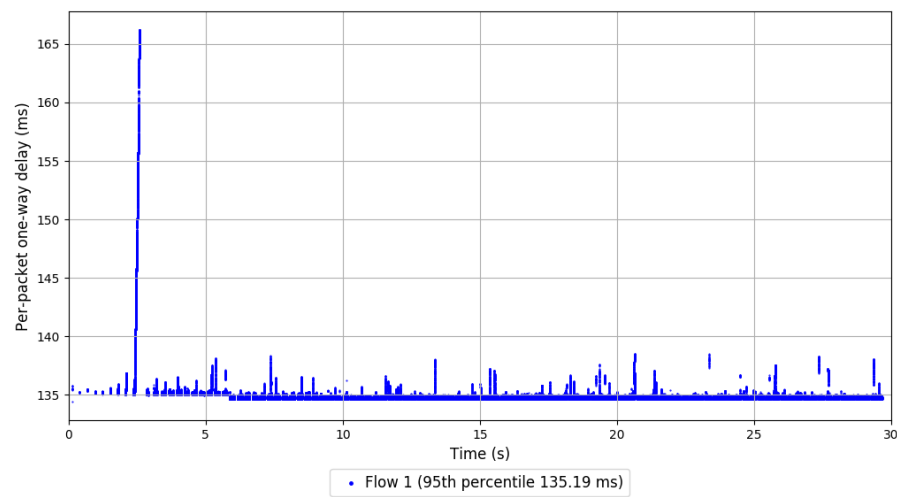
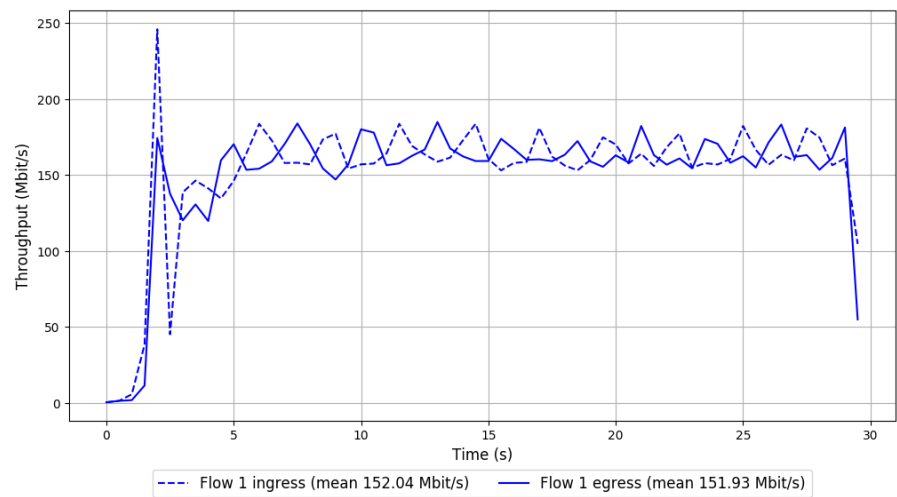
-- Flow 1:

Average throughput: 151.93 Mbit/s

95th percentile per-packet one-way delay: 135.186 ms

Loss rate: 0.99%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 16:29:24

End at: 2017-11-30 16:29:54

Below is generated by plot.py at 2017-11-30 19:33:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.57 Mbit/s

95th percentile per-packet one-way delay: 135.252 ms

Loss rate: 1.18%

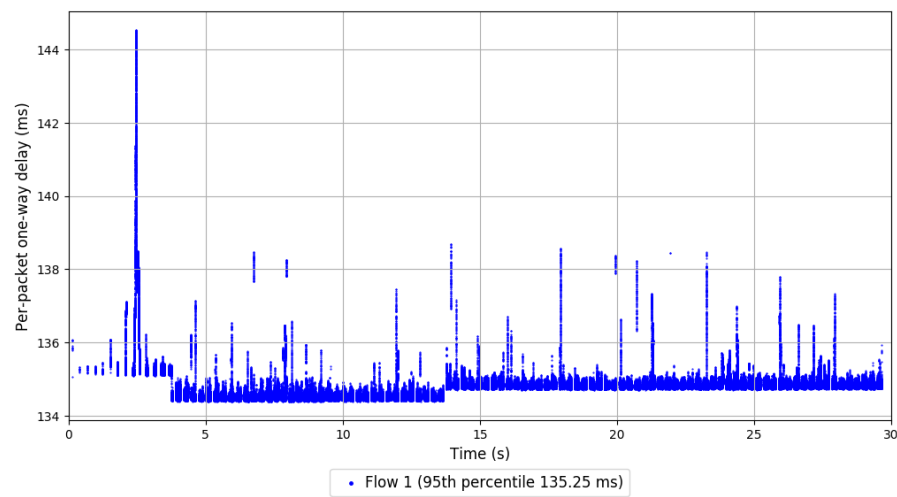
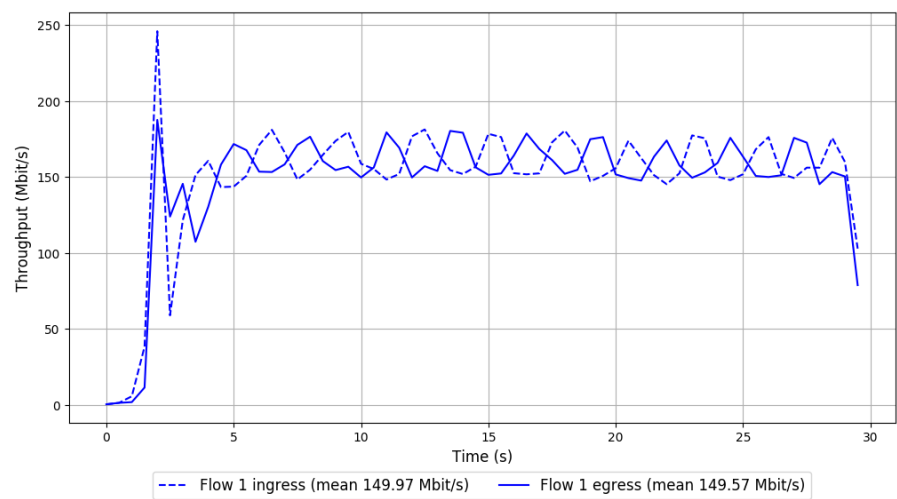
-- Flow 1:

Average throughput: 149.57 Mbit/s

95th percentile per-packet one-way delay: 135.252 ms

Loss rate: 1.18%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-30 16:40:47

End at: 2017-11-30 16:41:17

Below is generated by plot.py at 2017-11-30 19:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.22 Mbit/s

95th percentile per-packet one-way delay: 136.120 ms

Loss rate: 0.98%

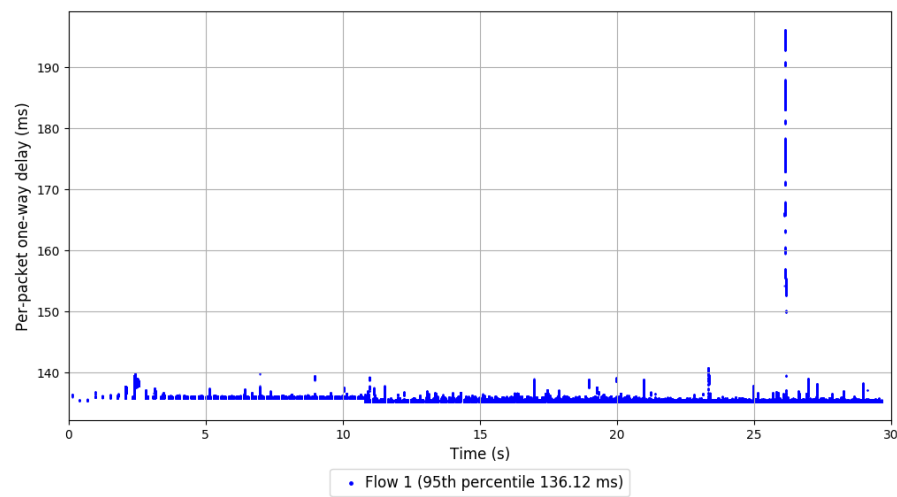
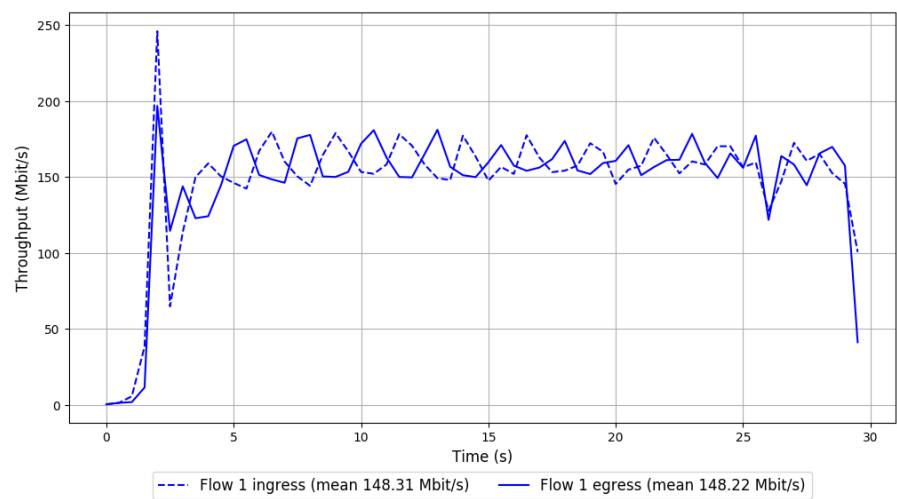
-- Flow 1:

Average throughput: 148.22 Mbit/s

95th percentile per-packet one-way delay: 136.120 ms

Loss rate: 0.98%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-30 16:52:10

End at: 2017-11-30 16:52:40

Below is generated by plot.py at 2017-11-30 19:34:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.35 Mbit/s

95th percentile per-packet one-way delay: 136.074 ms

Loss rate: 0.98%

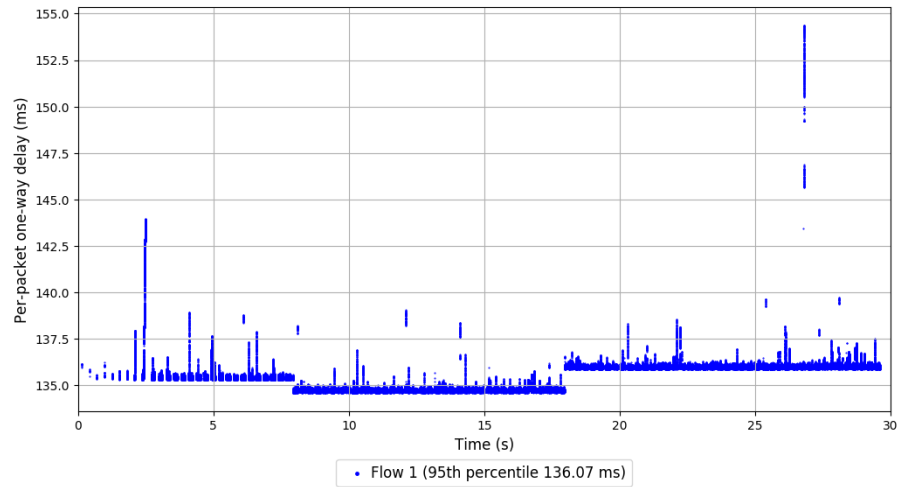
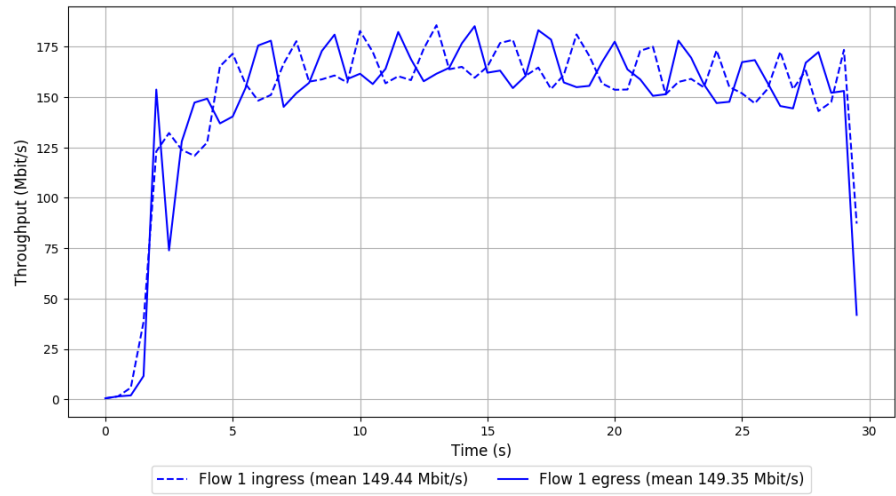
-- Flow 1:

Average throughput: 149.35 Mbit/s

95th percentile per-packet one-way delay: 136.074 ms

Loss rate: 0.98%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-30 17:03:41

End at: 2017-11-30 17:04:11

Below is generated by plot.py at 2017-11-30 19:35:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.23 Mbit/s

95th percentile per-packet one-way delay: 136.199 ms

Loss rate: 1.00%

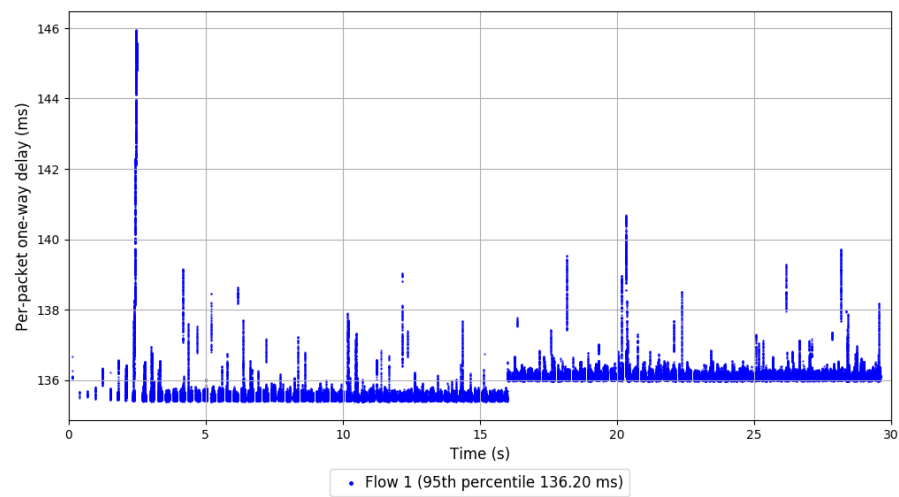
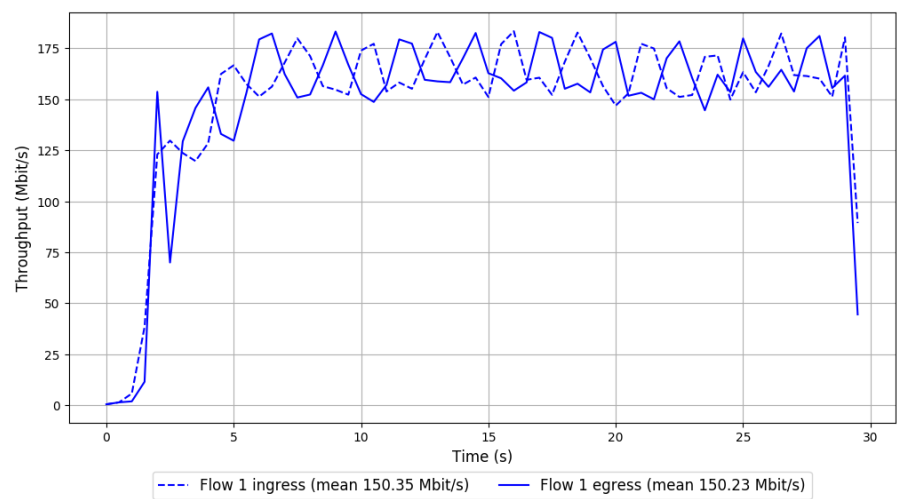
-- Flow 1:

Average throughput: 150.23 Mbit/s

95th percentile per-packet one-way delay: 136.199 ms

Loss rate: 1.00%

Run 10: Report of Indigo — Data Link

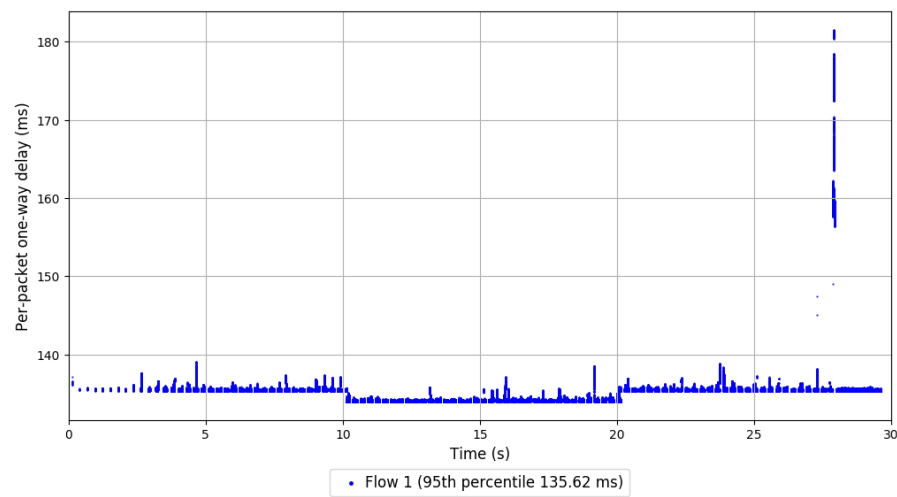
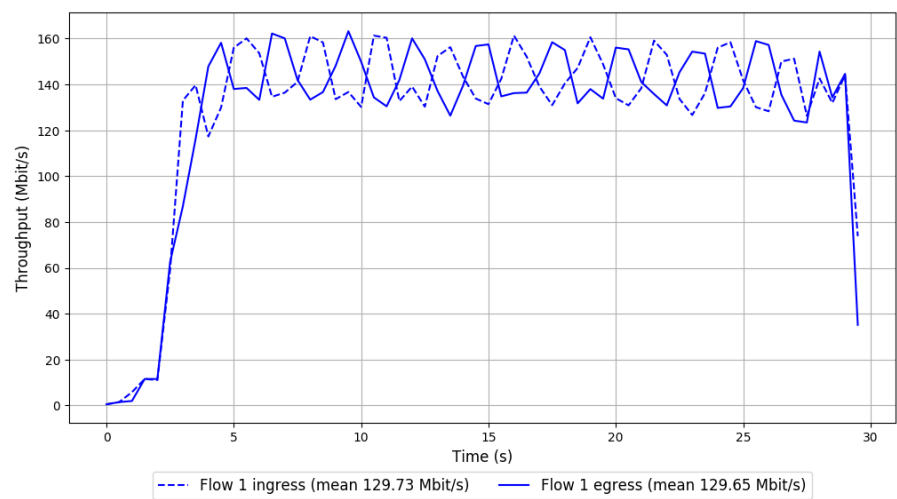


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 15:22:32
End at: 2017-11-30 15:23:02

# Below is generated by plot.py at 2017-11-30 19:35:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.65 Mbit/s
95th percentile per-packet one-way delay: 135.617 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 129.65 Mbit/s
95th percentile per-packet one-way delay: 135.617 ms
Loss rate: 0.97%
```

Run 1: Report of Indigo-calib — Data Link

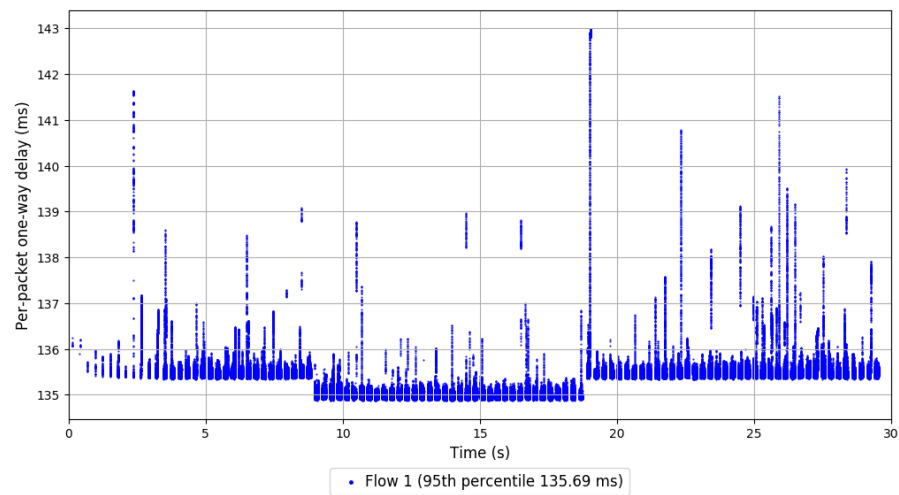
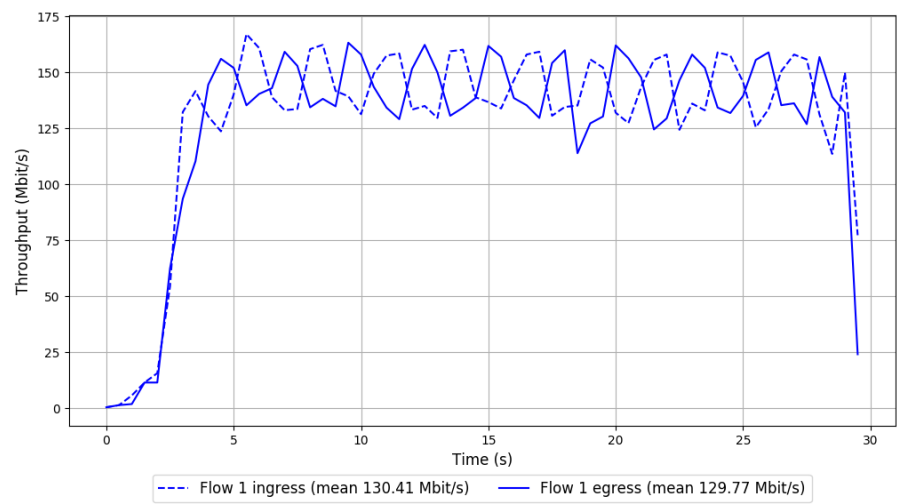


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 15:34:03
End at: 2017-11-30 15:34:33

# Below is generated by plot.py at 2017-11-30 19:35:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.77 Mbit/s
95th percentile per-packet one-way delay: 135.692 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 129.77 Mbit/s
95th percentile per-packet one-way delay: 135.692 ms
Loss rate: 1.59%
```

Run 2: Report of Indigo-calib — Data Link

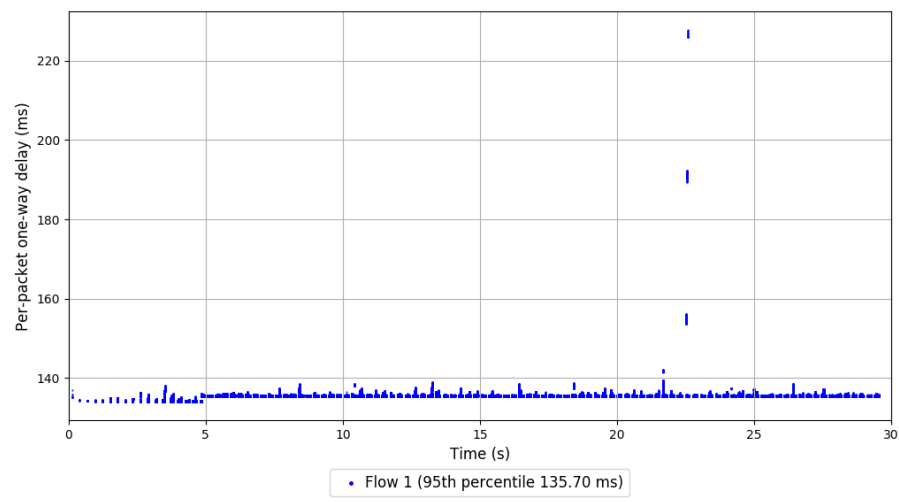
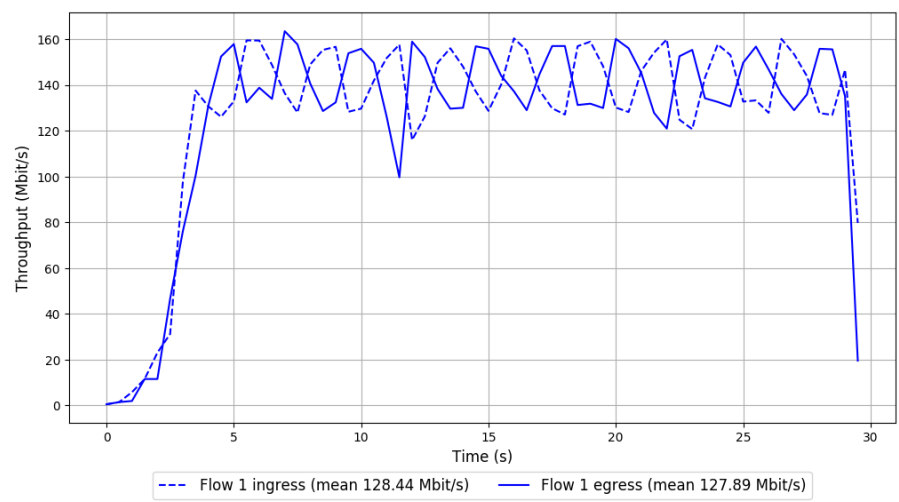


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 15:45:37
End at: 2017-11-30 15:46:07

# Below is generated by plot.py at 2017-11-30 19:35:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 127.89 Mbit/s
95th percentile per-packet one-way delay: 135.703 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 127.89 Mbit/s
95th percentile per-packet one-way delay: 135.703 ms
Loss rate: 1.35%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 15:57:15

End at: 2017-11-30 15:57:45

Below is generated by plot.py at 2017-11-30 19:35:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.70 Mbit/s

95th percentile per-packet one-way delay: 135.599 ms

Loss rate: 0.99%

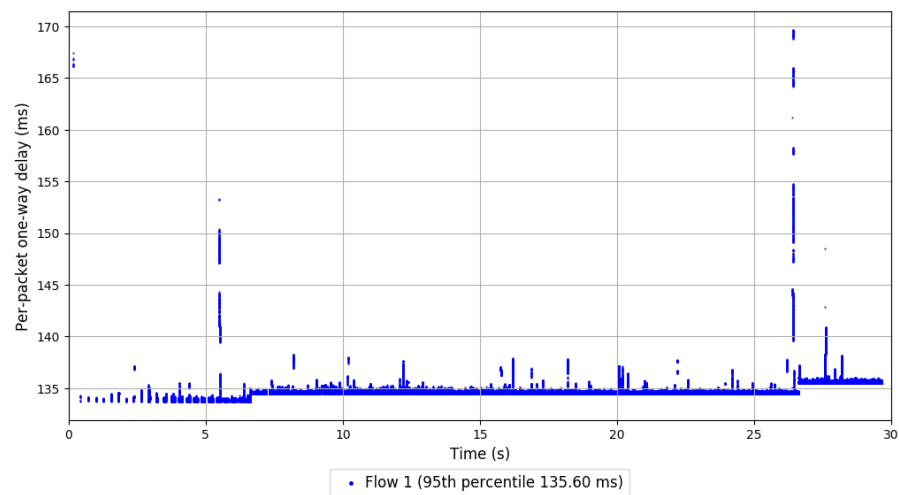
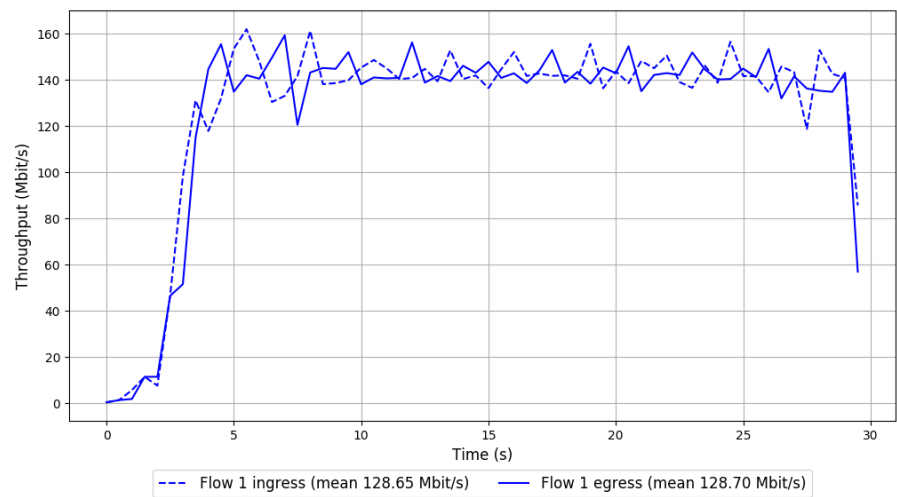
-- Flow 1:

Average throughput: 128.70 Mbit/s

95th percentile per-packet one-way delay: 135.599 ms

Loss rate: 0.99%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 16:08:49

End at: 2017-11-30 16:09:19

Below is generated by plot.py at 2017-11-30 19:35:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.29 Mbit/s

95th percentile per-packet one-way delay: 134.940 ms

Loss rate: 1.03%

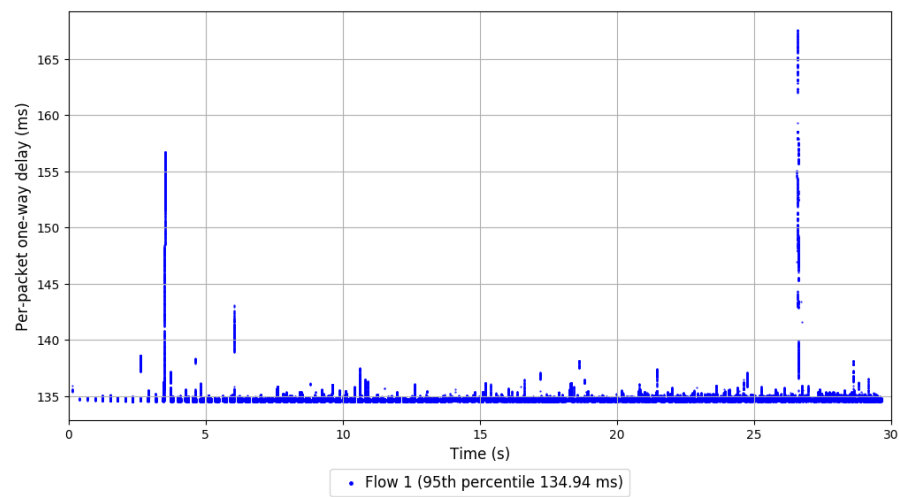
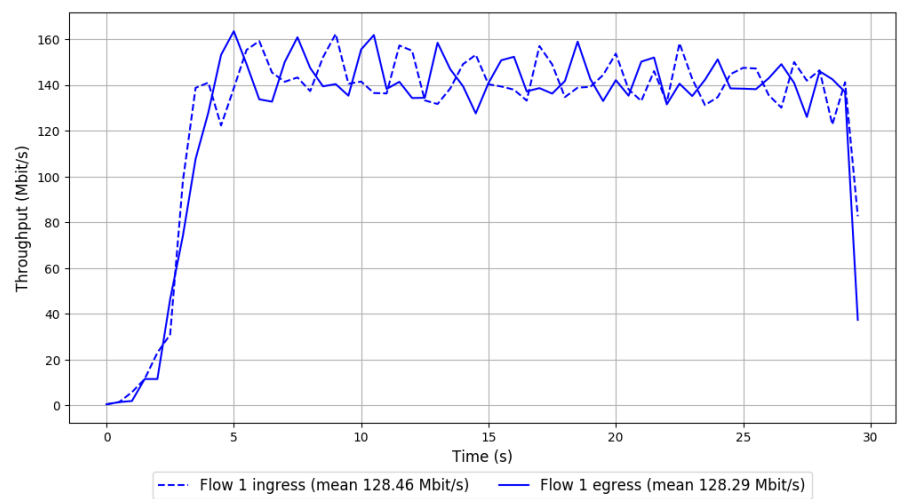
-- Flow 1:

Average throughput: 128.29 Mbit/s

95th percentile per-packet one-way delay: 134.940 ms

Loss rate: 1.03%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 16:20:21

End at: 2017-11-30 16:20:51

Below is generated by plot.py at 2017-11-30 19:35:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.25 Mbit/s

95th percentile per-packet one-way delay: 135.286 ms

Loss rate: 1.03%

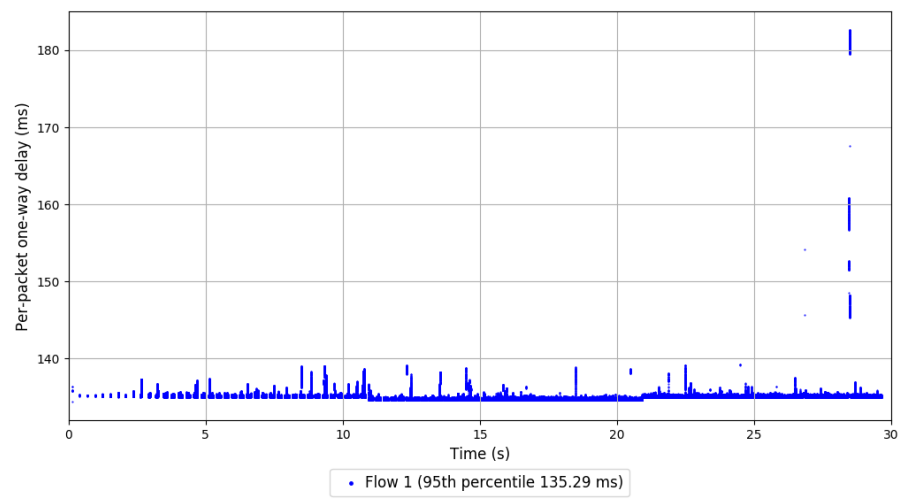
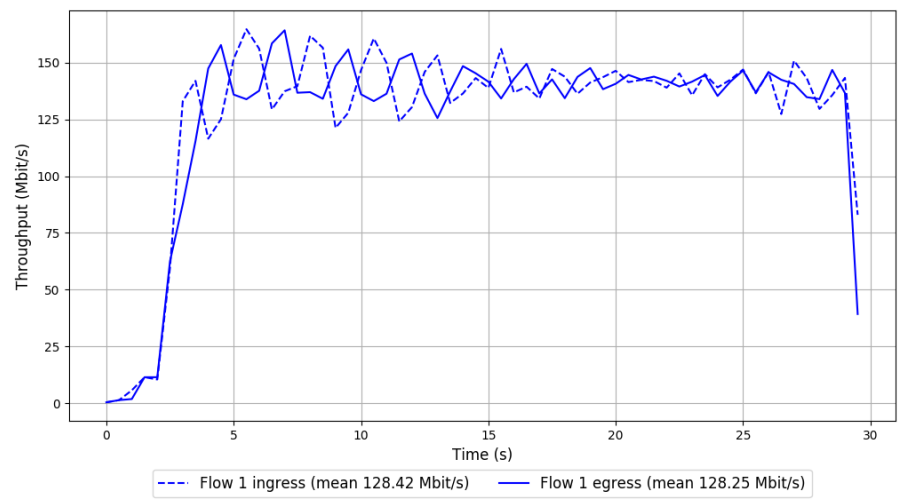
-- Flow 1:

Average throughput: 128.25 Mbit/s

95th percentile per-packet one-way delay: 135.286 ms

Loss rate: 1.03%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 16:31:51

End at: 2017-11-30 16:32:21

Below is generated by plot.py at 2017-11-30 19:36:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.28 Mbit/s

95th percentile per-packet one-way delay: 135.361 ms

Loss rate: 1.05%

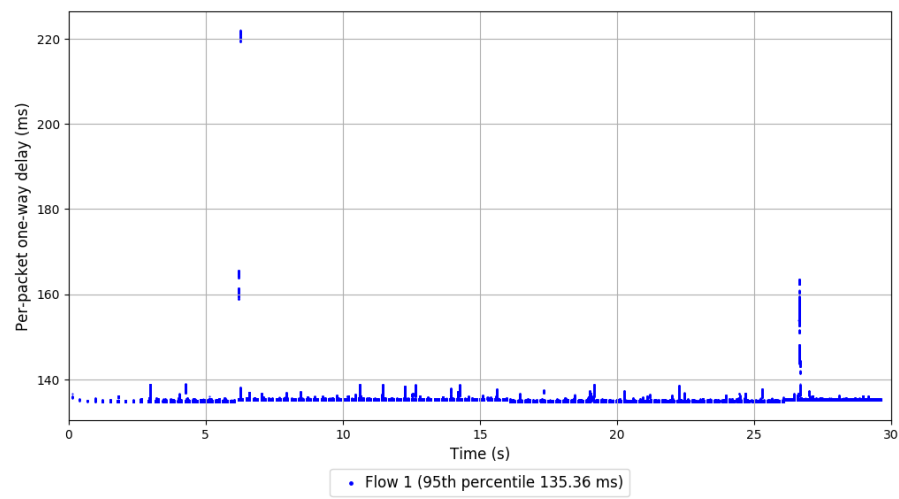
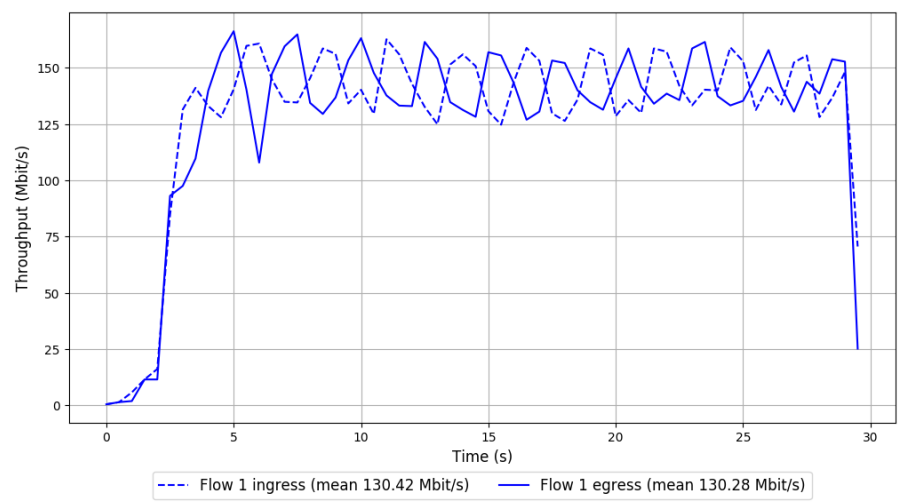
-- Flow 1:

Average throughput: 130.28 Mbit/s

95th percentile per-packet one-way delay: 135.361 ms

Loss rate: 1.05%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 16:43:14

End at: 2017-11-30 16:43:44

Below is generated by plot.py at 2017-11-30 19:36:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.52 Mbit/s

95th percentile per-packet one-way delay: 136.060 ms

Loss rate: 1.01%

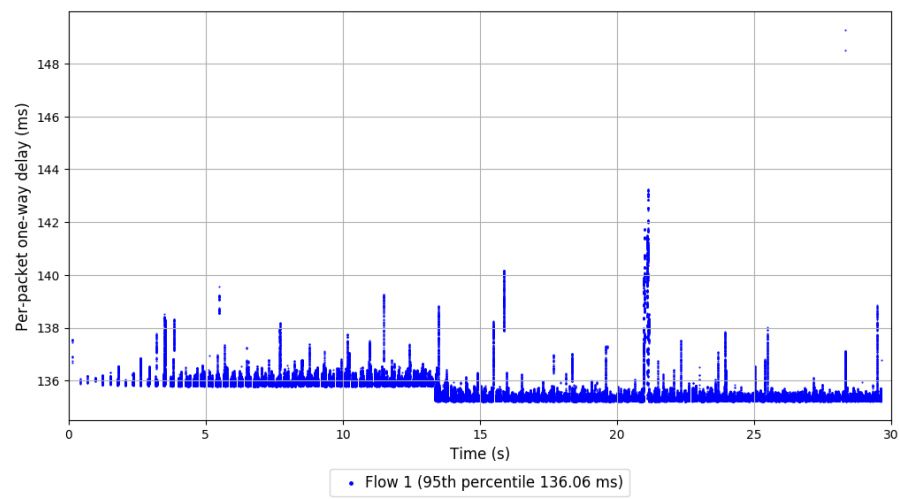
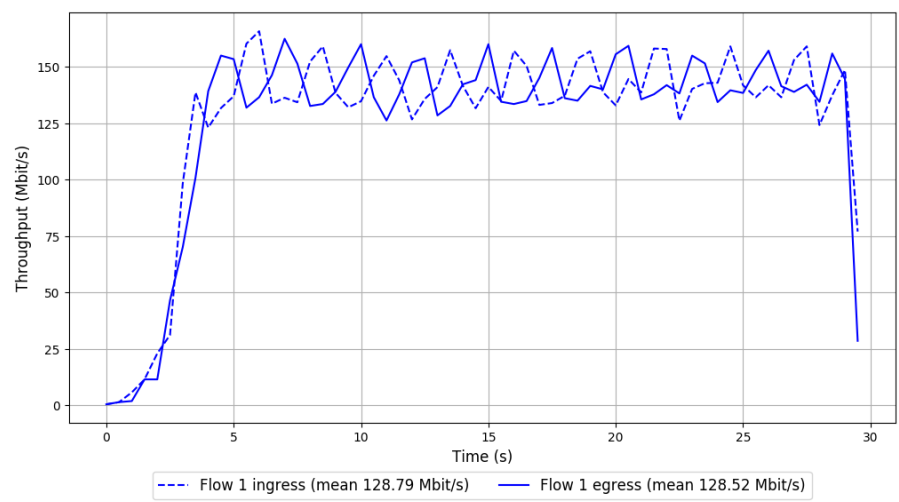
-- Flow 1:

Average throughput: 128.52 Mbit/s

95th percentile per-packet one-way delay: 136.060 ms

Loss rate: 1.01%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 16:54:39

End at: 2017-11-30 16:55:09

Below is generated by plot.py at 2017-11-30 19:36:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.47 Mbit/s

95th percentile per-packet one-way delay: 135.557 ms

Loss rate: 1.07%

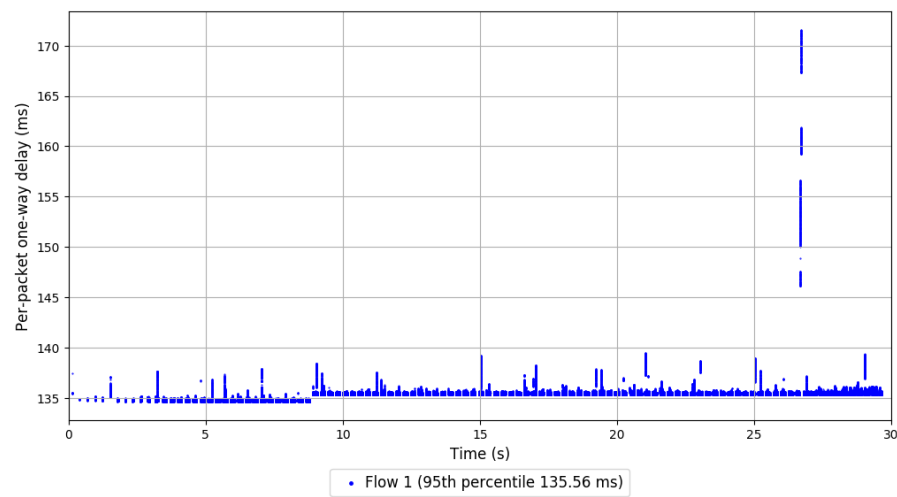
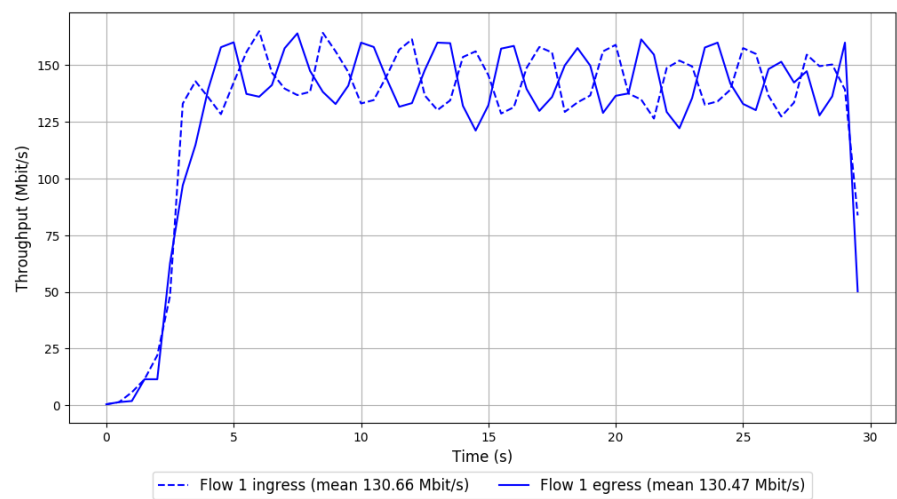
-- Flow 1:

Average throughput: 130.47 Mbit/s

95th percentile per-packet one-way delay: 135.557 ms

Loss rate: 1.07%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 17:06:16

End at: 2017-11-30 17:06:46

Below is generated by plot.py at 2017-11-30 19:36:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.80 Mbit/s

95th percentile per-packet one-way delay: 136.681 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 129.80 Mbit/s

95th percentile per-packet one-way delay: 136.681 ms

Loss rate: 1.04%

Run 10: Report of Indigo-calib — Data Link

