

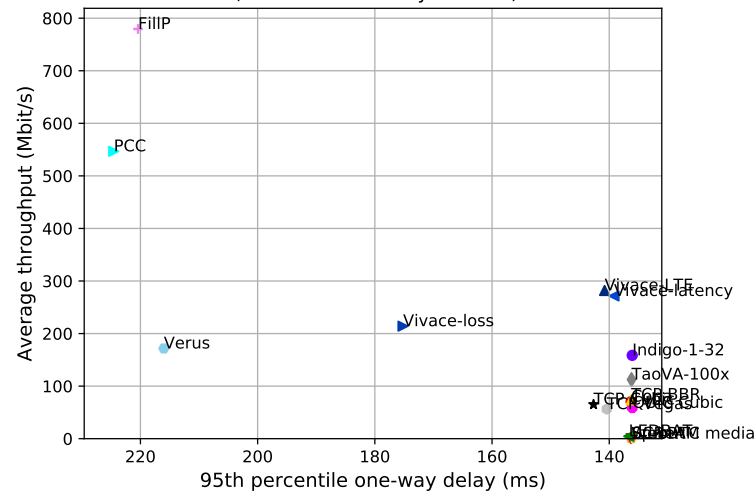
Pantheon Report

Generated at 2018-03-27 20:19:45 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

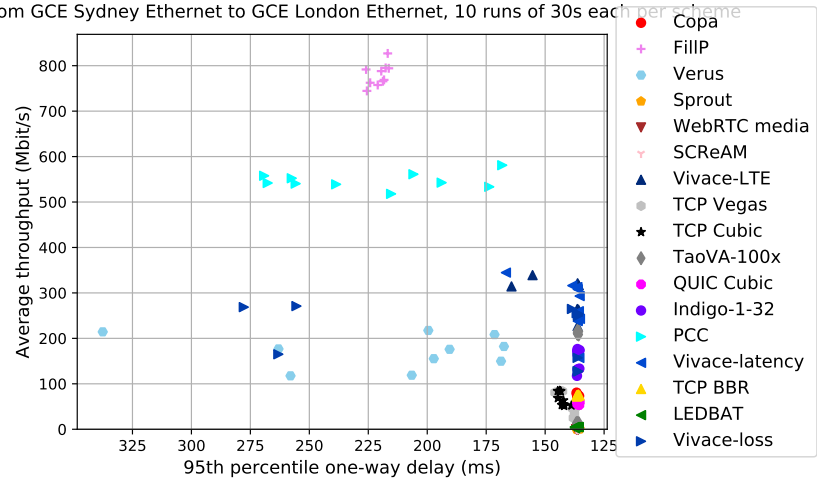
Git summary:

```
branch: master @ 503f51fe03f703a4c0a826a0792a4fead3e7d1b0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	73.95	136.25	0.00
TCP Cubic	10	65.11	142.68	0.01
LEDBAT	10	4.57	136.68	0.00
PCC	10	546.75	224.55	1.73
QUIC Cubic	9	58.68	136.07	0.00
SCReAM	10	0.22	136.12	0.00
WebRTC media	10	0.06	136.27	0.00
Sprout	10	0.45	136.24	0.00
TaoVA-100x	10	112.44	136.20	0.00
TCP Vegas	10	56.27	140.44	0.03
Verus	10	171.65	216.01	0.83
Copa	10	70.52	136.27	0.00
FillP	10	779.50	220.40	8.31
Indigo-1-32	10	158.55	136.08	0.00
Vivace-latency	10	271.49	139.19	0.04
Vivace-loss	10	214.06	175.18	0.85
Vivace-LTE	10	282.03	140.79	0.03

Run 1: Statistics of TCP BBR

Start at: 2018-03-27 14:48:19

End at: 2018-03-27 14:48:49

Below is generated by plot.py at 2018-03-27 18:56:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 136.591 ms

Loss rate: 0.00%

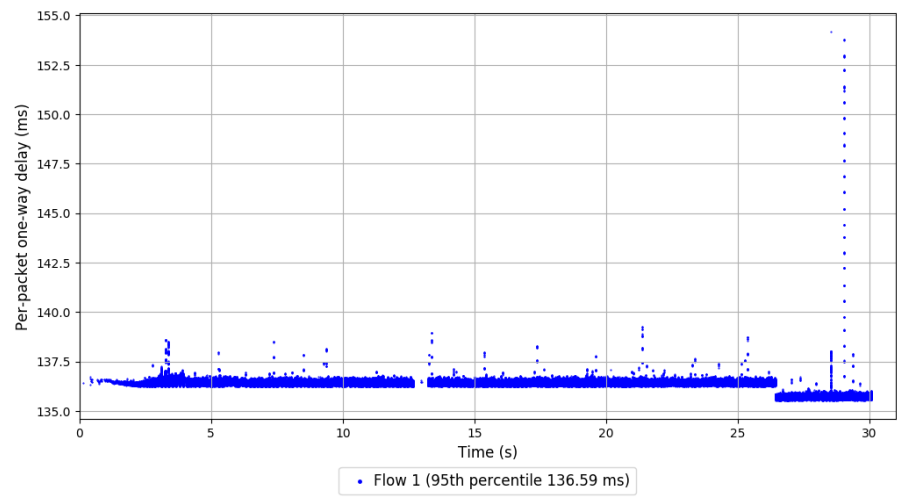
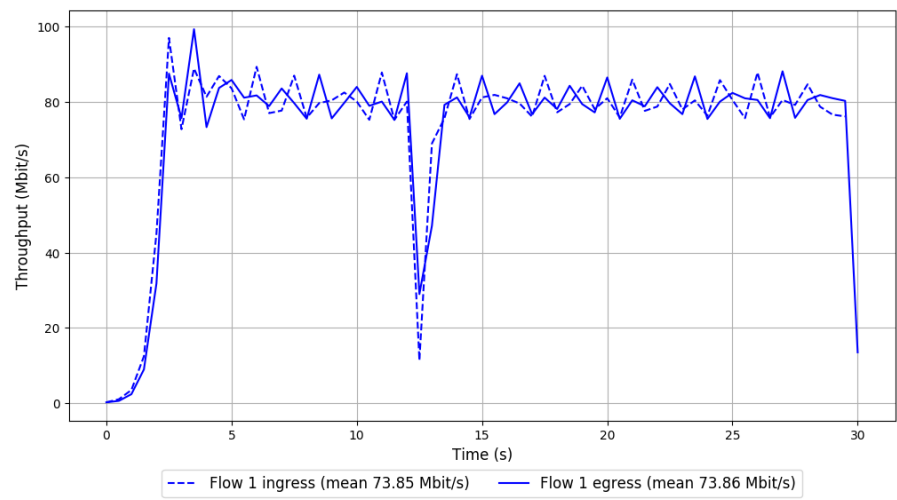
-- Flow 1:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 136.591 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-27 15:03:49

End at: 2018-03-27 15:04:19

Below is generated by plot.py at 2018-03-27 18:56:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.96 Mbit/s

95th percentile per-packet one-way delay: 136.546 ms

Loss rate: 0.00%

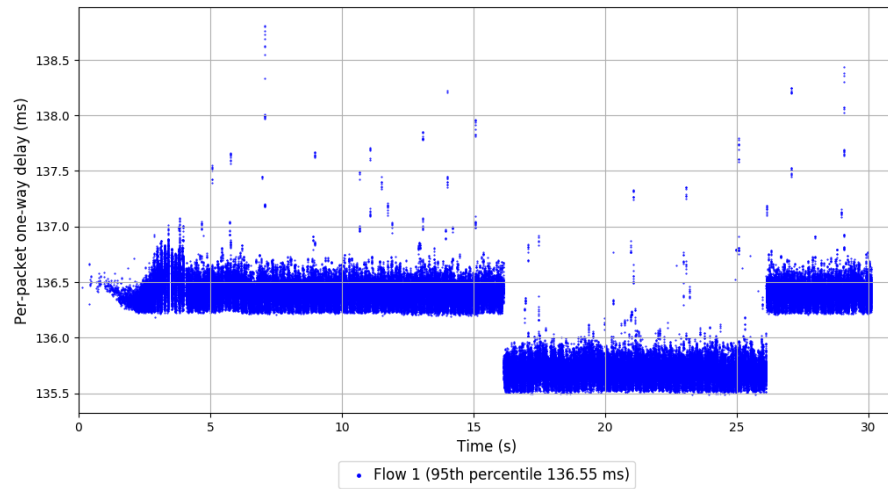
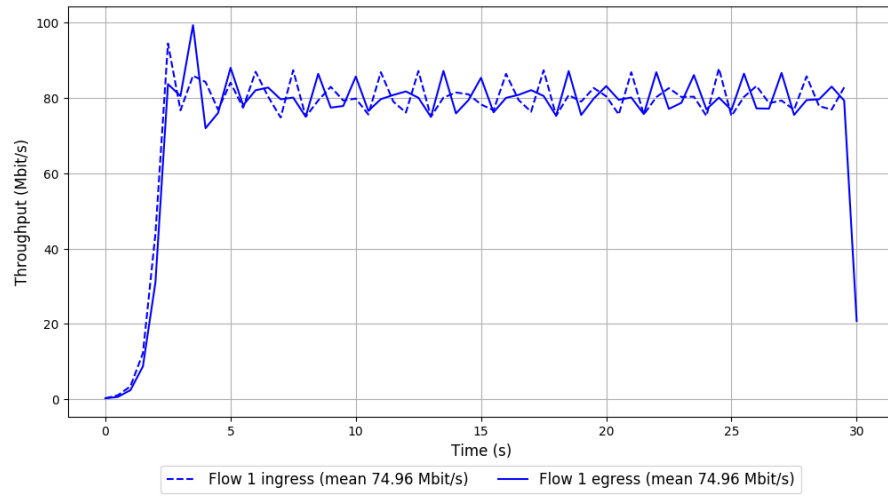
-- Flow 1:

Average throughput: 74.96 Mbit/s

95th percentile per-packet one-way delay: 136.546 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-27 15:19:29

End at: 2018-03-27 15:19:59

Below is generated by plot.py at 2018-03-27 18:56:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 135.832 ms

Loss rate: 0.00%

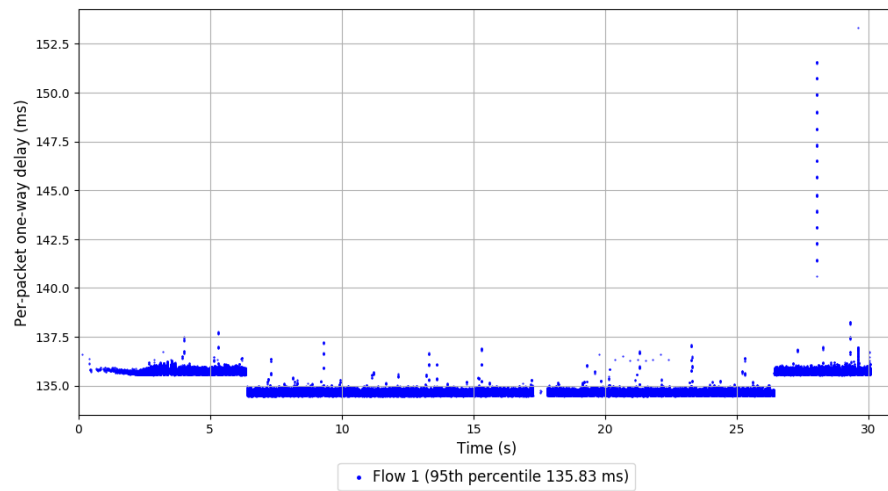
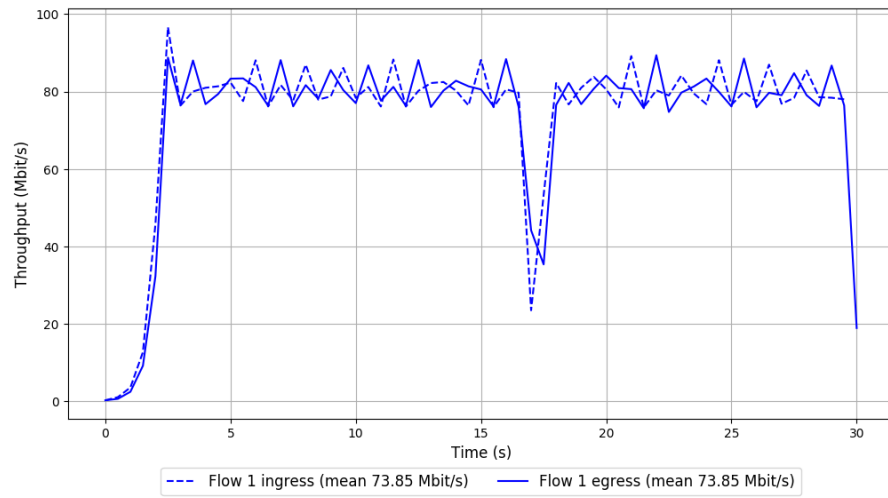
-- Flow 1:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 135.832 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-27 15:35:33

End at: 2018-03-27 15:36:03

Below is generated by plot.py at 2018-03-27 18:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.56 Mbit/s

95th percentile per-packet one-way delay: 135.978 ms

Loss rate: 0.00%

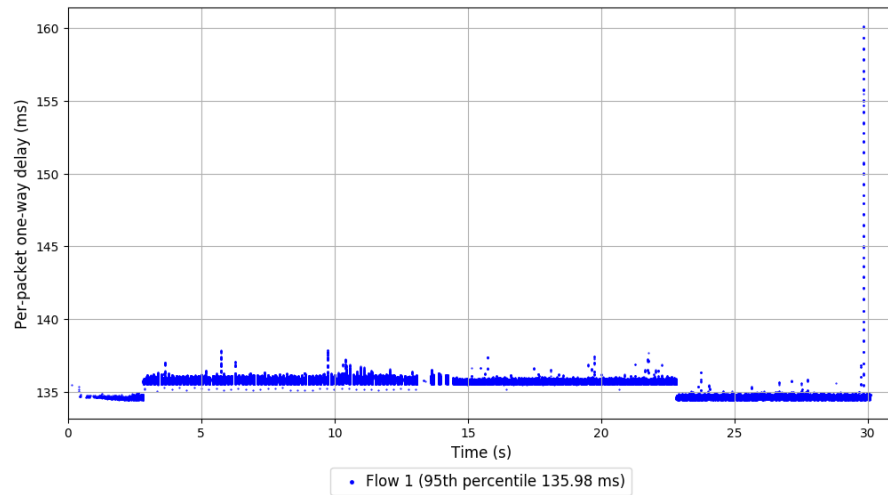
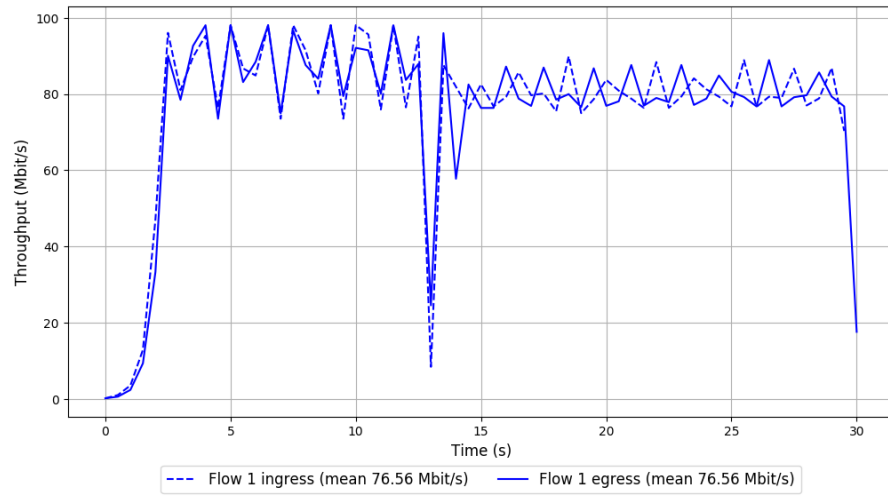
-- Flow 1:

Average throughput: 76.56 Mbit/s

95th percentile per-packet one-way delay: 135.978 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-27 15:51:32

End at: 2018-03-27 15:52:02

Below is generated by plot.py at 2018-03-27 18:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 136.482 ms

Loss rate: 0.00%

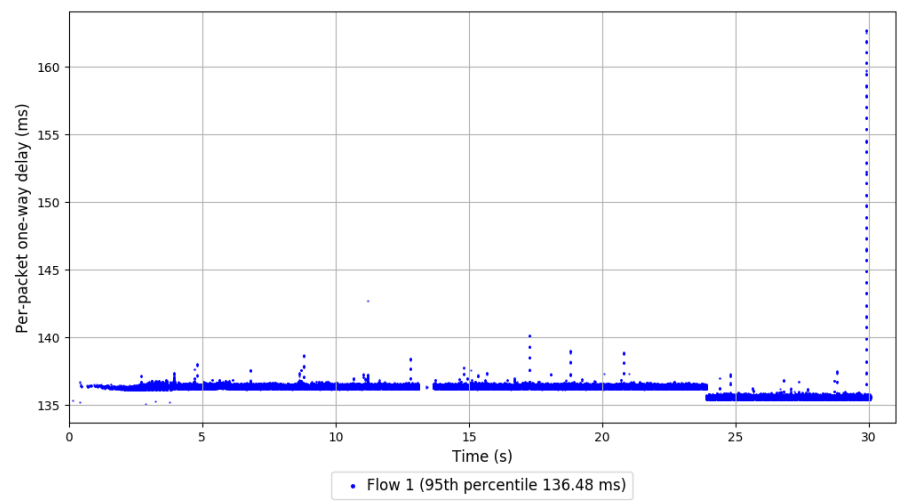
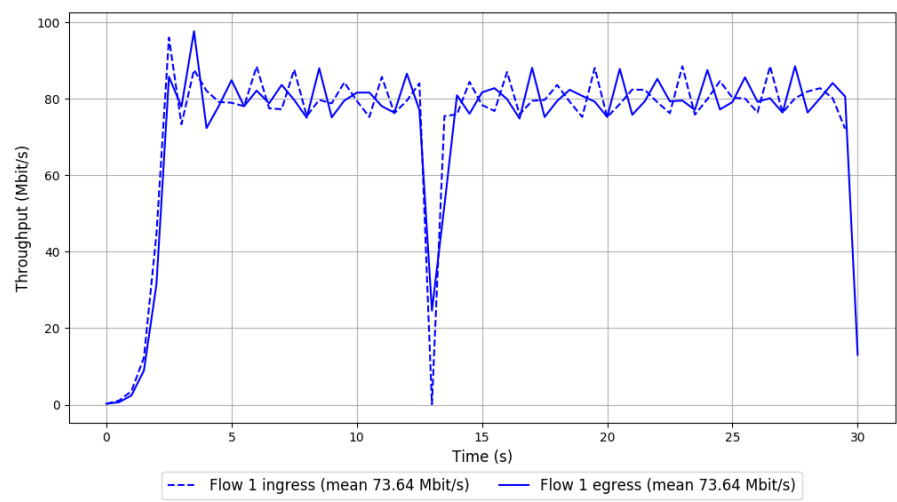
-- Flow 1:

Average throughput: 73.64 Mbit/s

95th percentile per-packet one-way delay: 136.482 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-27 16:07:02

End at: 2018-03-27 16:07:32

Below is generated by plot.py at 2018-03-27 18:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 136.442 ms

Loss rate: 0.01%

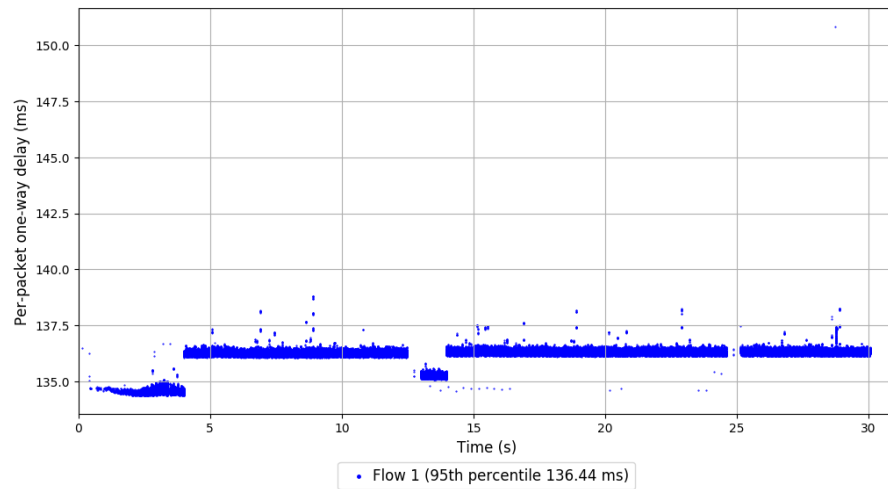
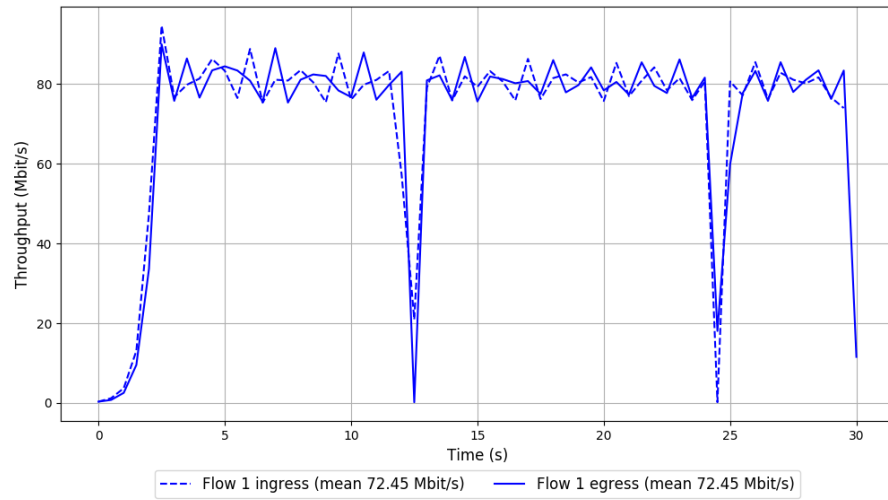
-- Flow 1:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 136.442 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-27 16:22:55

End at: 2018-03-27 16:23:25

Below is generated by plot.py at 2018-03-27 18:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 135.406 ms

Loss rate: 0.00%

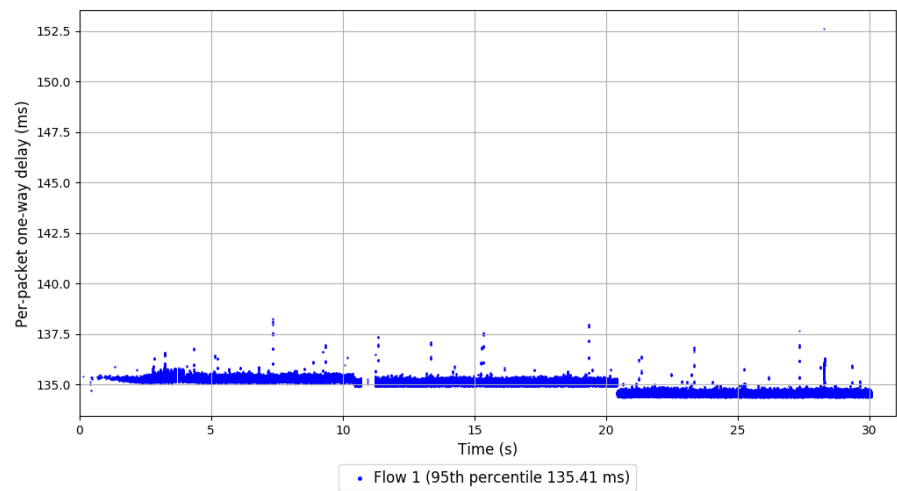
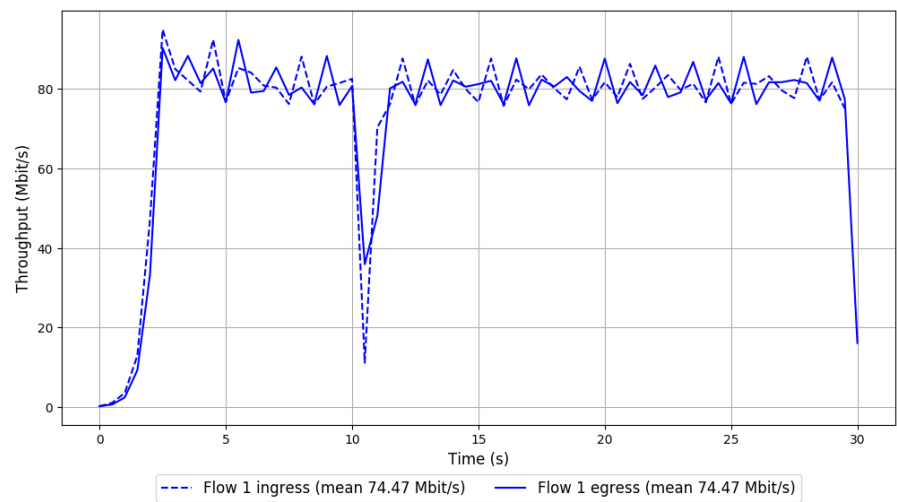
-- Flow 1:

Average throughput: 74.47 Mbit/s

95th percentile per-packet one-way delay: 135.406 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-27 16:38:39

End at: 2018-03-27 16:39:09

Below is generated by plot.py at 2018-03-27 18:56:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 136.331 ms

Loss rate: 0.00%

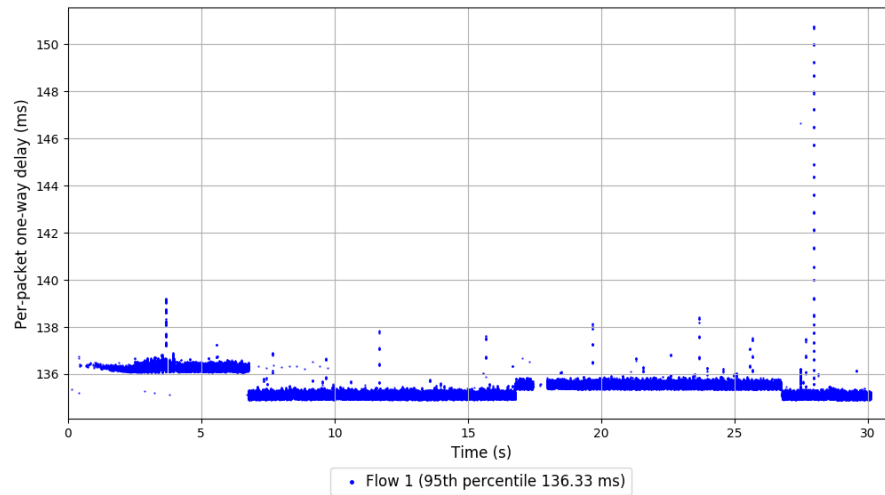
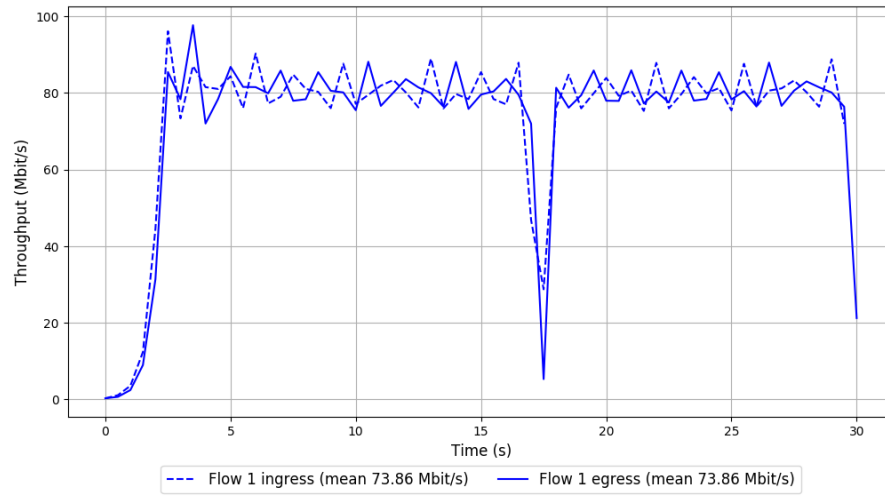
-- Flow 1:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 136.331 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-27 16:54:26

End at: 2018-03-27 16:54:56

Below is generated by plot.py at 2018-03-27 18:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 136.439 ms

Loss rate: 0.00%

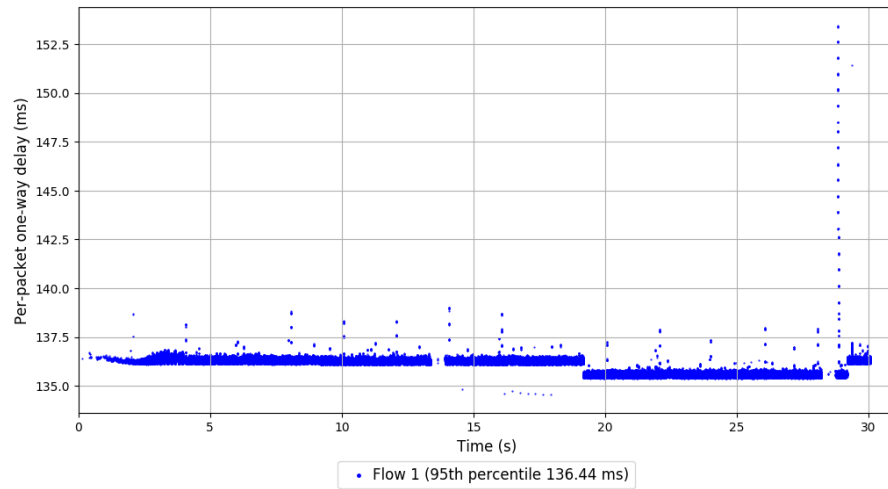
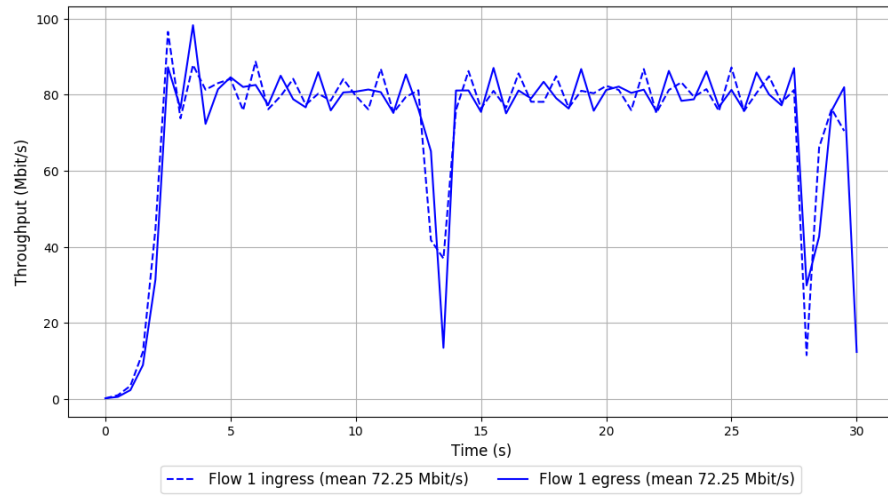
-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 136.439 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-27 17:10:07

End at: 2018-03-27 17:10:37

Below is generated by plot.py at 2018-03-27 18:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.61 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 0.00%

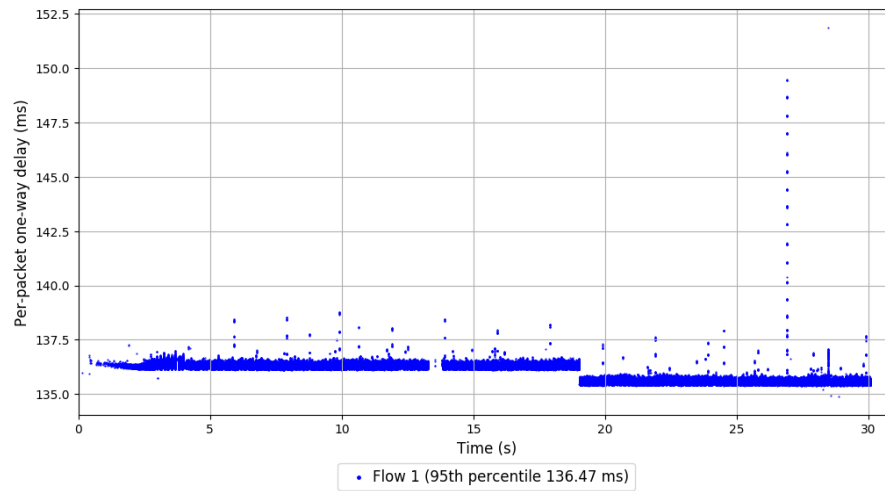
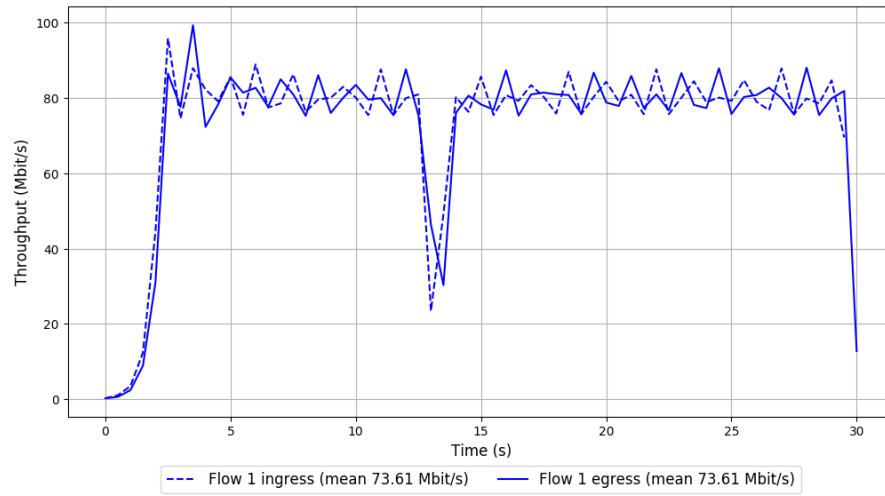
-- Flow 1:

Average throughput: 73.61 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-27 14:57:35

End at: 2018-03-27 14:58:05

Below is generated by plot.py at 2018-03-27 18:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 141.949 ms

Loss rate: 0.00%

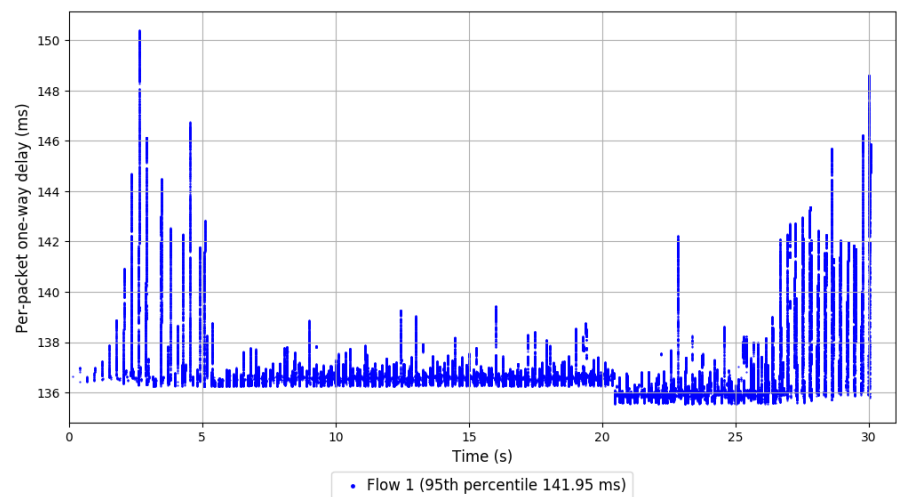
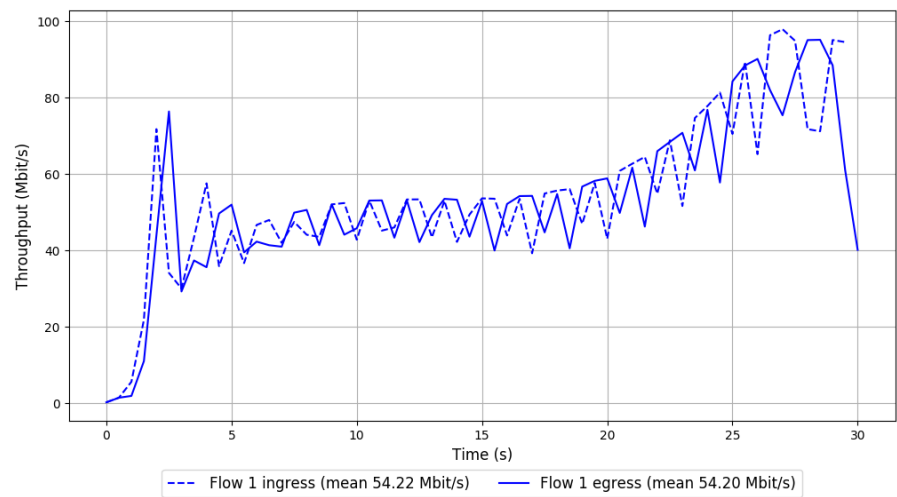
-- Flow 1:

Average throughput: 54.20 Mbit/s

95th percentile per-packet one-way delay: 141.949 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-27 15:13:20

End at: 2018-03-27 15:13:50

Below is generated by plot.py at 2018-03-27 18:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 144.592 ms

Loss rate: 0.00%

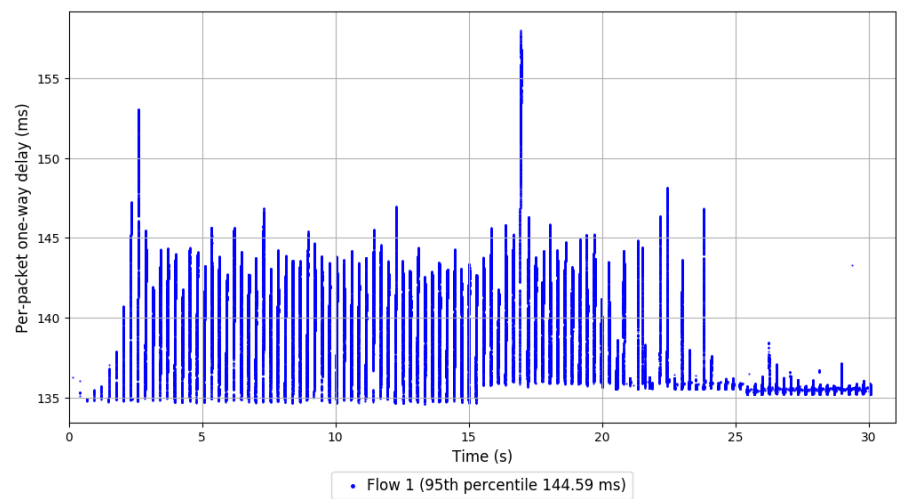
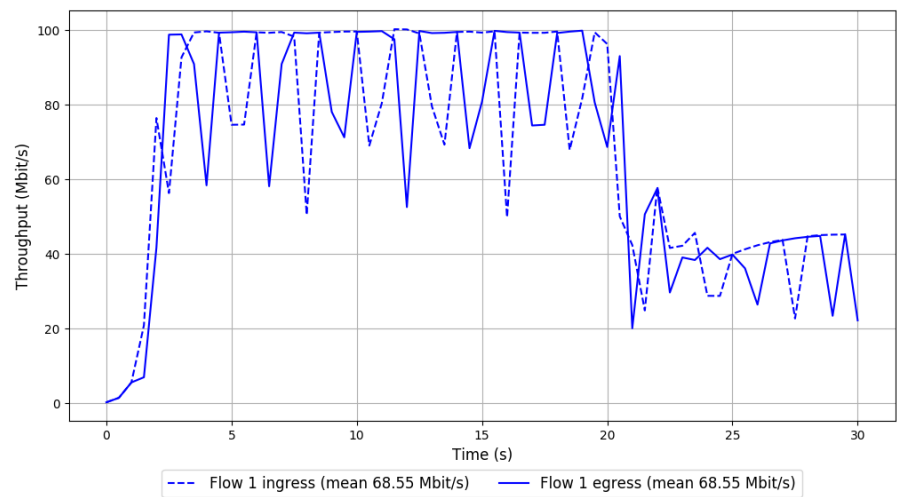
-- Flow 1:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 144.592 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-27 15:29:09

End at: 2018-03-27 15:29:39

Below is generated by plot.py at 2018-03-27 18:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 141.960 ms

Loss rate: 0.00%

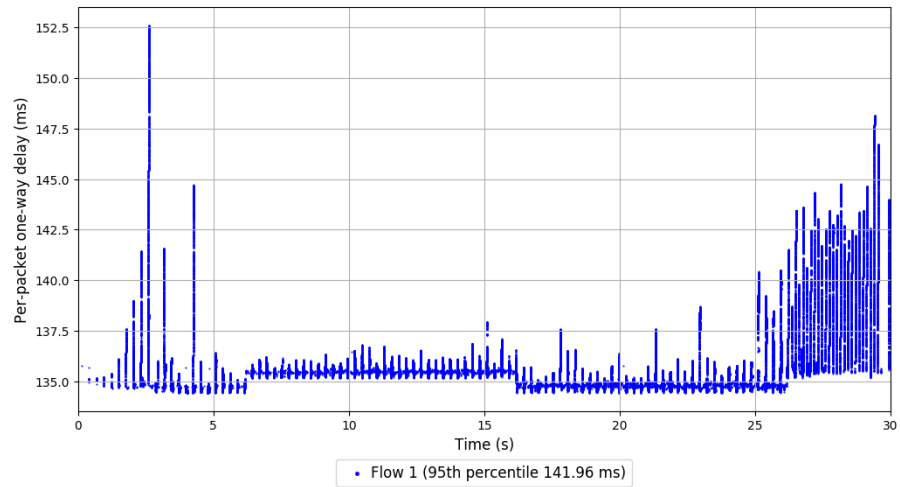
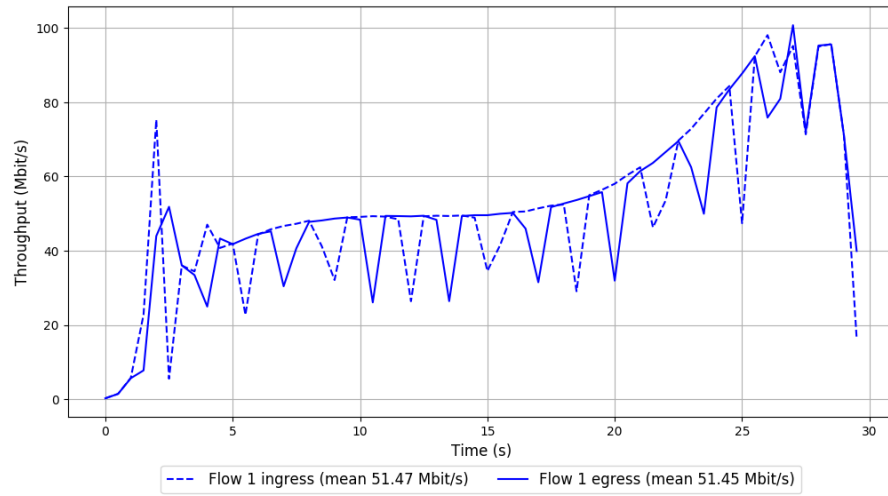
-- Flow 1:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 141.960 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-27 15:45:09

End at: 2018-03-27 15:45:39

Below is generated by plot.py at 2018-03-27 18:58:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 143.806 ms

Loss rate: 0.03%

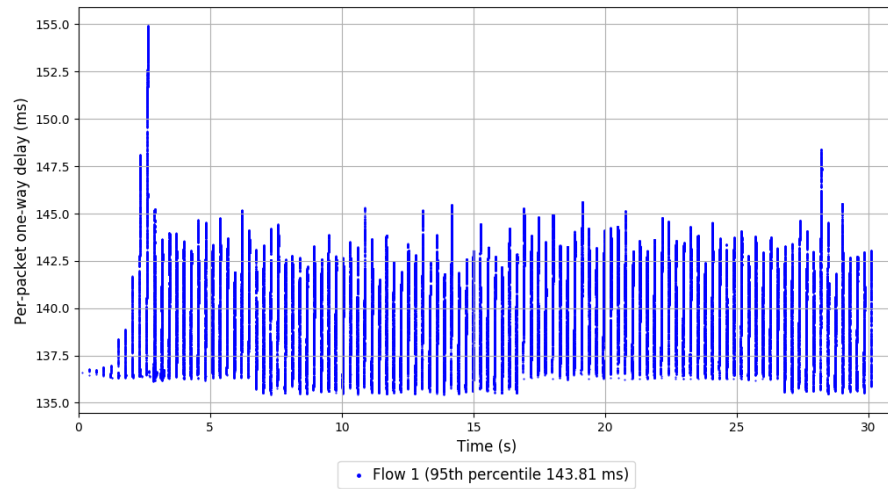
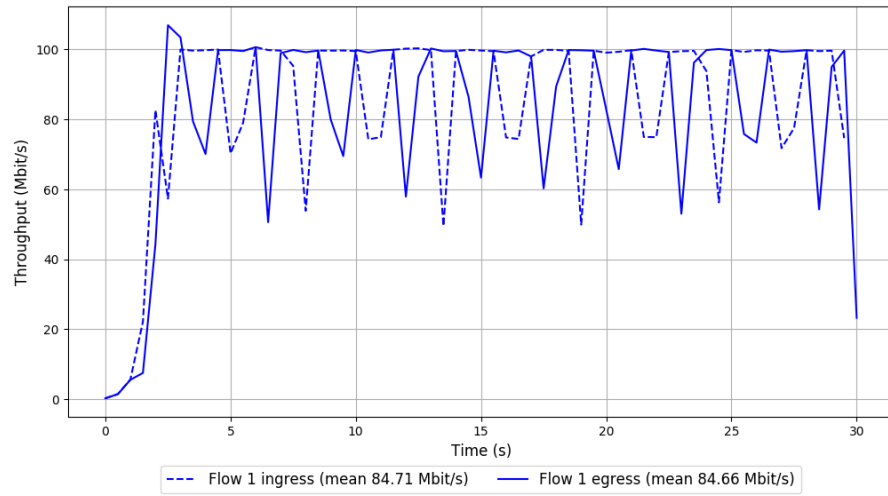
-- Flow 1:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 143.806 ms

Loss rate: 0.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-27 16:00:55

End at: 2018-03-27 16:01:25

Below is generated by plot.py at 2018-03-27 18:58:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.46 Mbit/s

95th percentile per-packet one-way delay: 142.930 ms

Loss rate: 0.00%

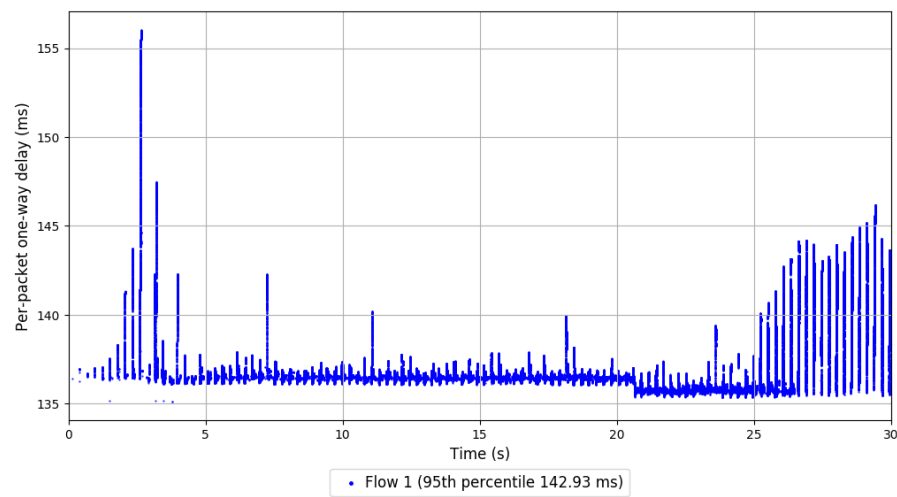
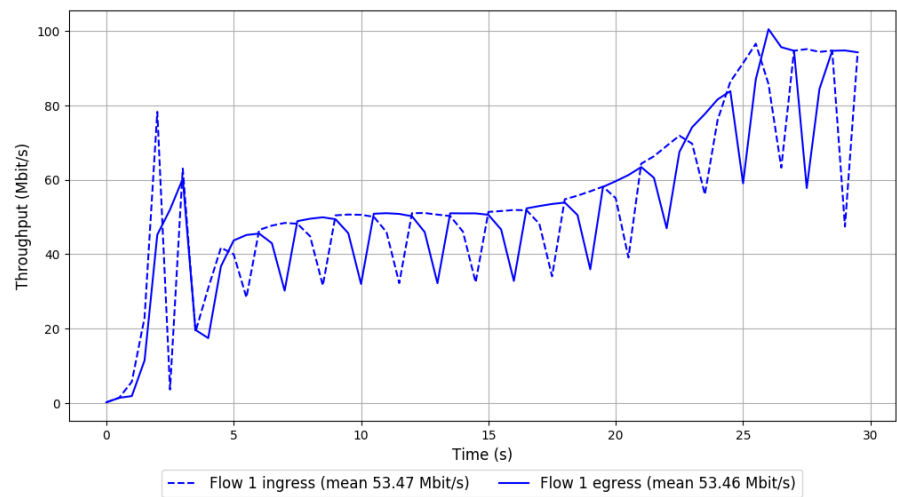
-- Flow 1:

Average throughput: 53.46 Mbit/s

95th percentile per-packet one-way delay: 142.930 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-27 16:16:39

End at: 2018-03-27 16:17:09

Below is generated by plot.py at 2018-03-27 18:58:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.87 Mbit/s

95th percentile per-packet one-way delay: 143.427 ms

Loss rate: 0.12%

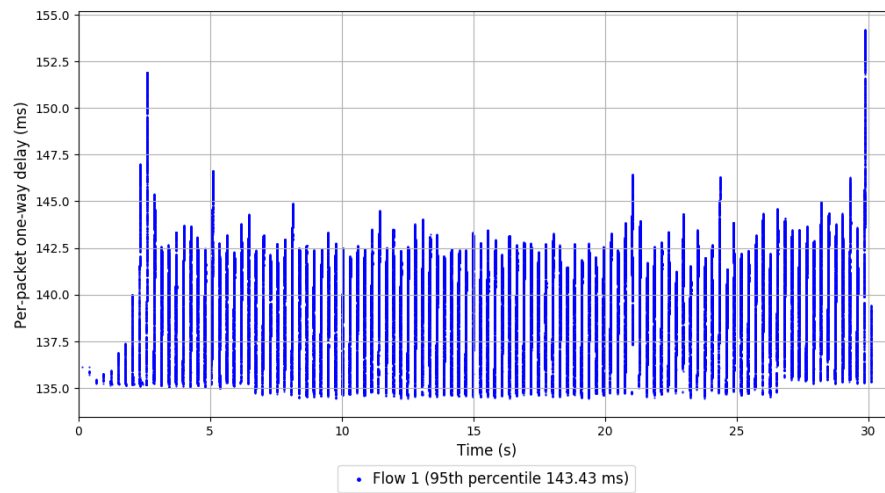
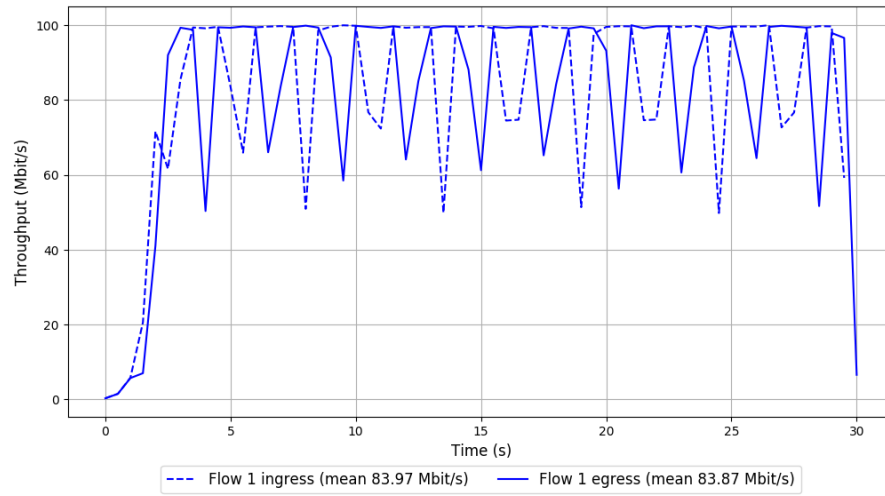
-- Flow 1:

Average throughput: 83.87 Mbit/s

95th percentile per-packet one-way delay: 143.427 ms

Loss rate: 0.12%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-27 16:32:16

End at: 2018-03-27 16:32:46

Below is generated by plot.py at 2018-03-27 18:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.46 Mbit/s

95th percentile per-packet one-way delay: 142.265 ms

Loss rate: 0.00%

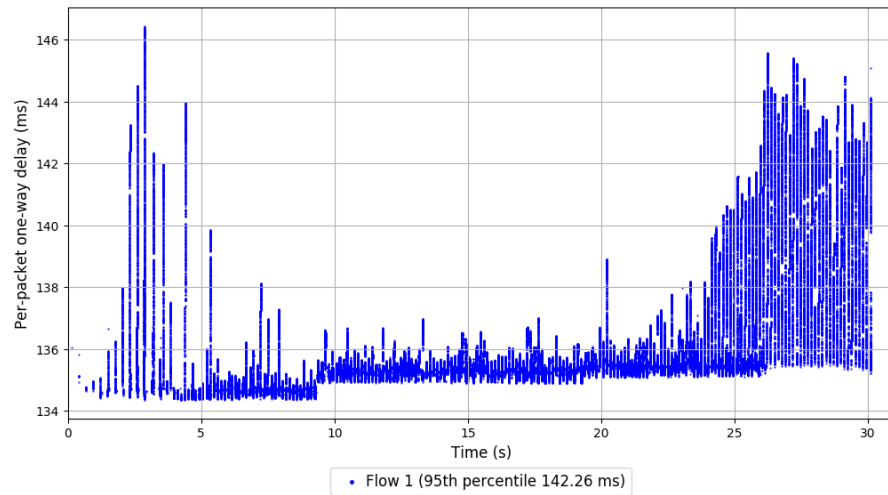
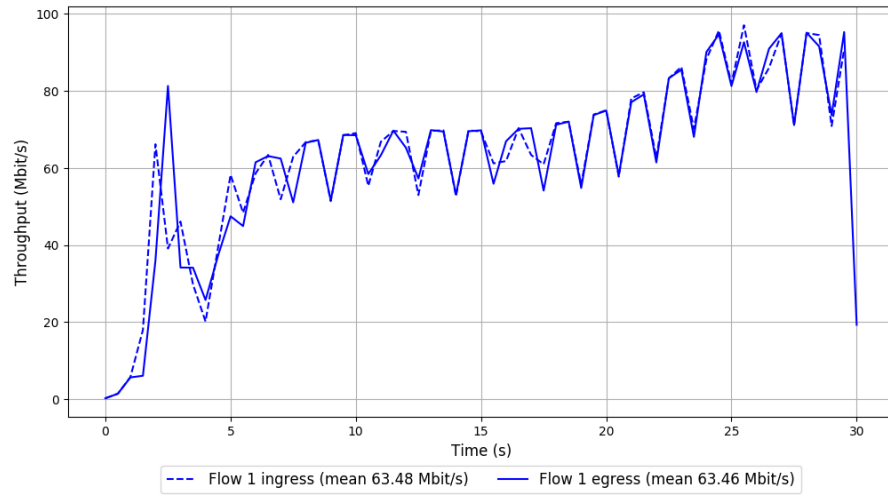
-- Flow 1:

Average throughput: 63.46 Mbit/s

95th percentile per-packet one-way delay: 142.265 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-27 16:48:08

End at: 2018-03-27 16:48:38

Below is generated by plot.py at 2018-03-27 18:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.44 Mbit/s

95th percentile per-packet one-way delay: 138.823 ms

Loss rate: 0.00%

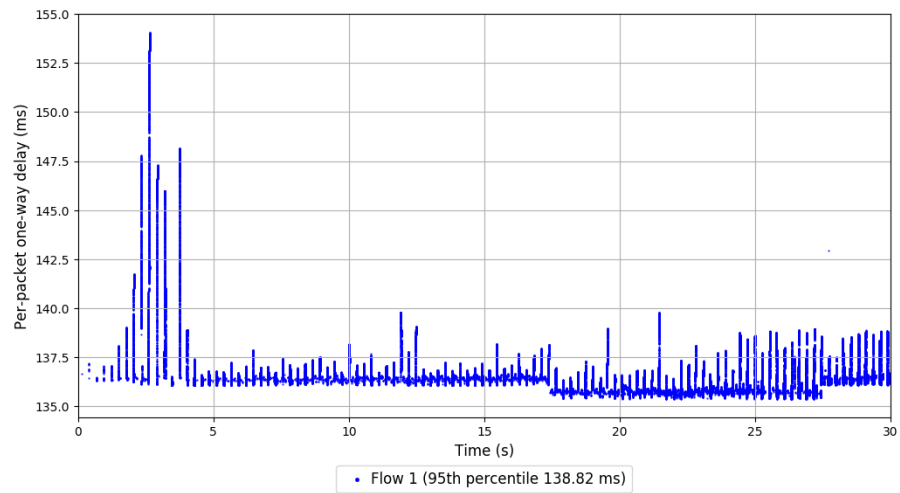
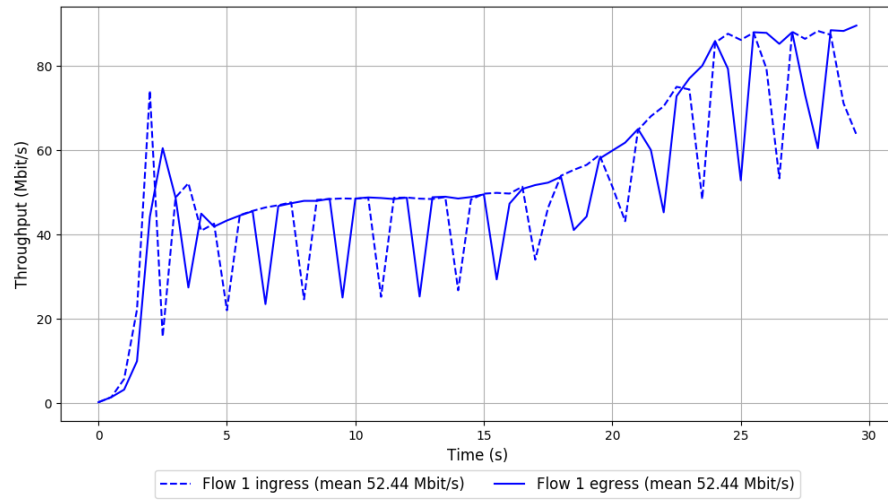
-- Flow 1:

Average throughput: 52.44 Mbit/s

95th percentile per-packet one-way delay: 138.823 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-27 17:03:54

End at: 2018-03-27 17:04:24

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.13 Mbit/s

95th percentile per-packet one-way delay: 144.661 ms

Loss rate: 0.00%

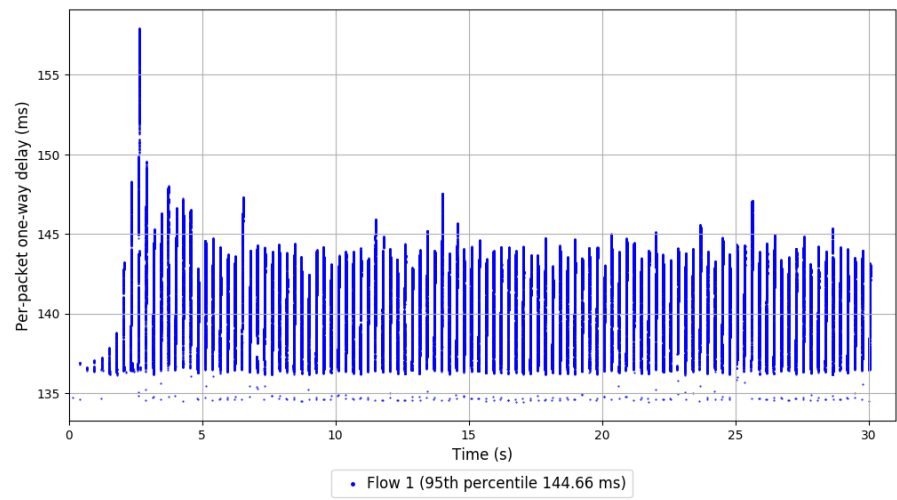
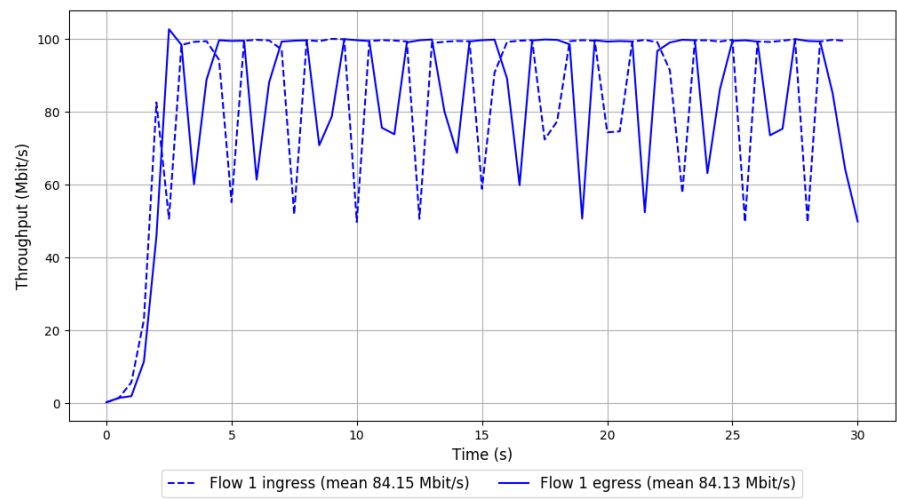
-- Flow 1:

Average throughput: 84.13 Mbit/s

95th percentile per-packet one-way delay: 144.661 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-27 17:19:40

End at: 2018-03-27 17:20:10

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 142.397 ms

Loss rate: 0.00%

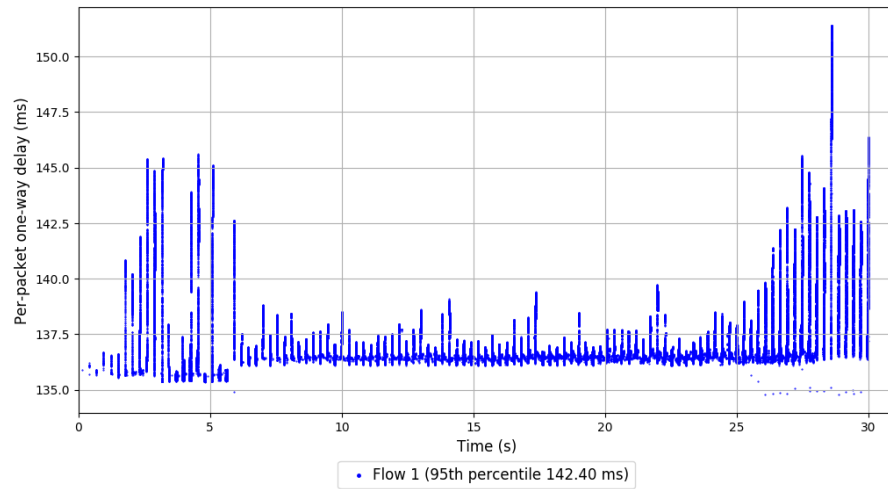
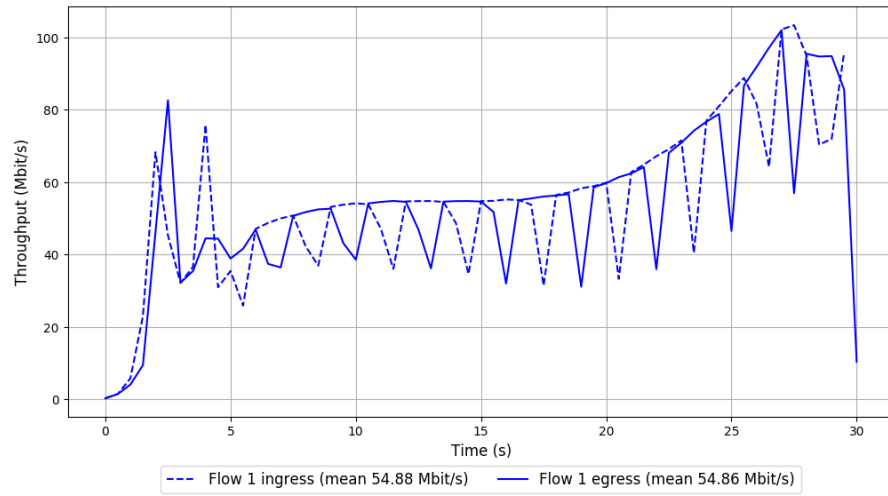
-- Flow 1:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 142.397 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

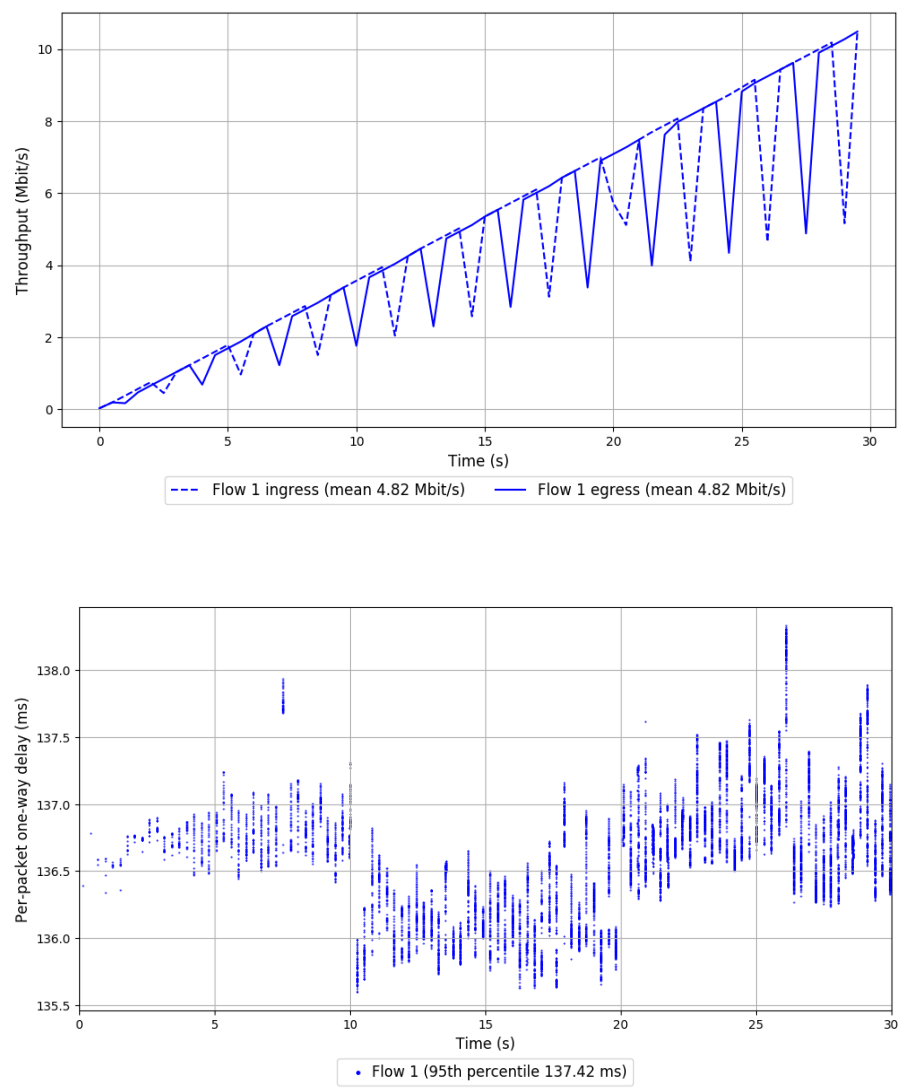


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-27 15:00:56
End at: 2018-03-27 15:01:26

# Below is generated by plot.py at 2018-03-27 18:59:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 137.417 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 137.417 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-27 15:16:35

End at: 2018-03-27 15:17:05

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 136.253 ms

Loss rate: 0.00%

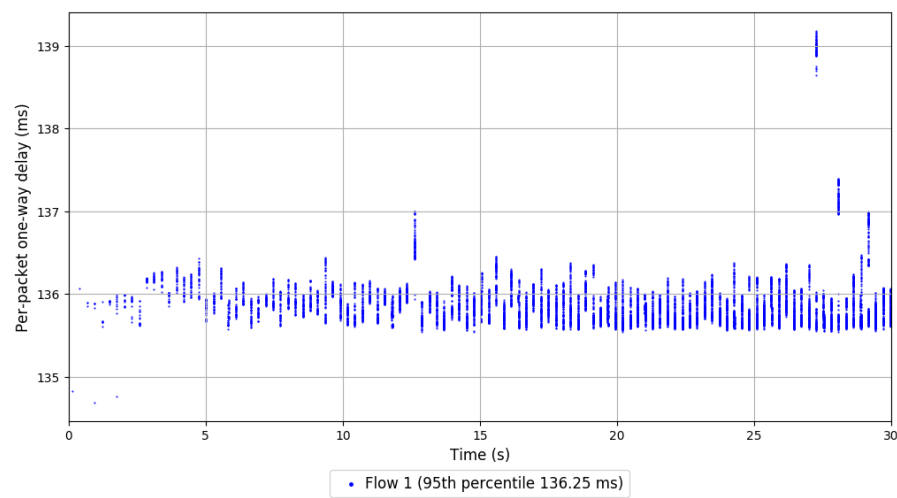
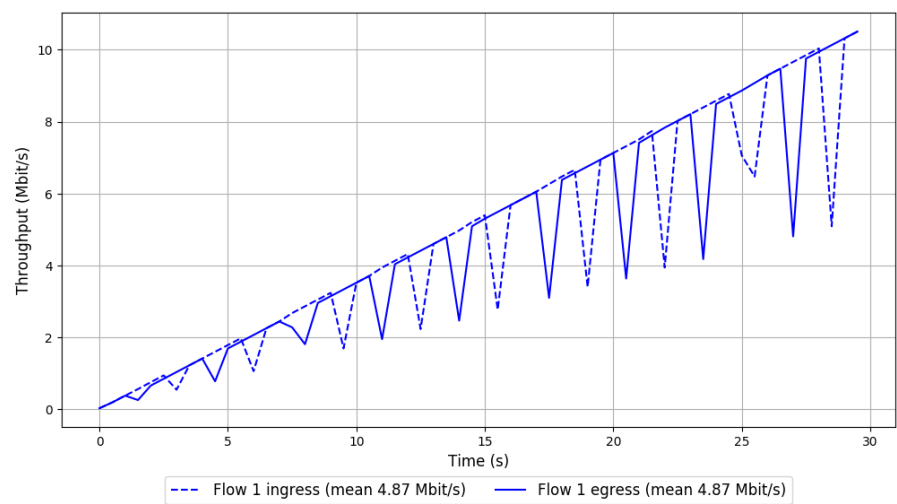
-- Flow 1:

Average throughput: 4.87 Mbit/s

95th percentile per-packet one-way delay: 136.253 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-27 15:32:39

End at: 2018-03-27 15:33:09

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 135.888 ms

Loss rate: 0.00%

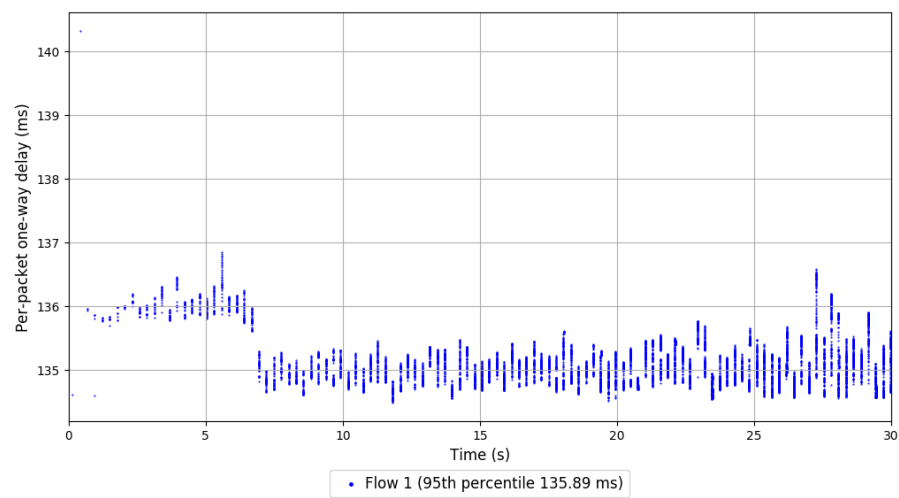
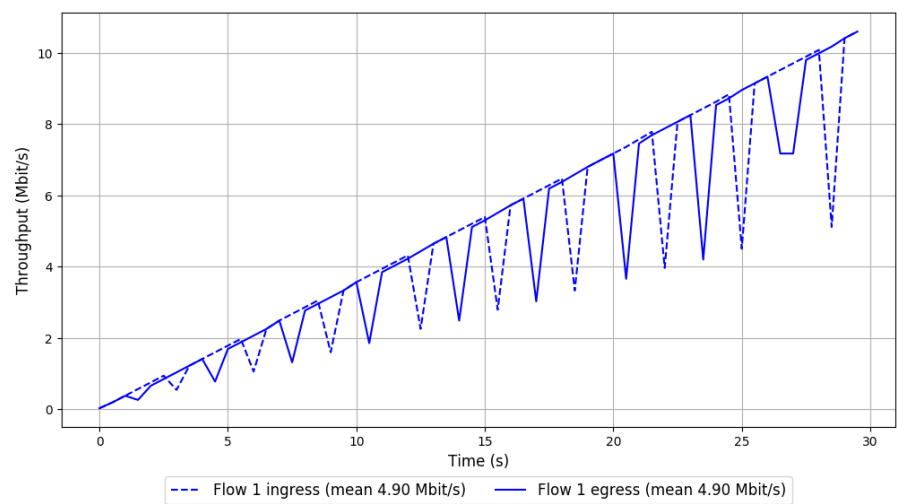
-- Flow 1:

Average throughput: 4.90 Mbit/s

95th percentile per-packet one-way delay: 135.888 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-27 15:48:38

End at: 2018-03-27 15:49:08

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 0.00%

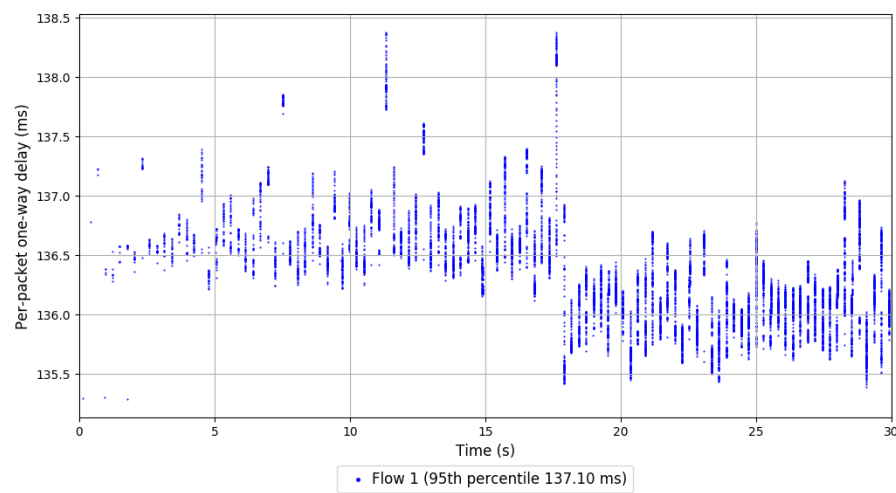
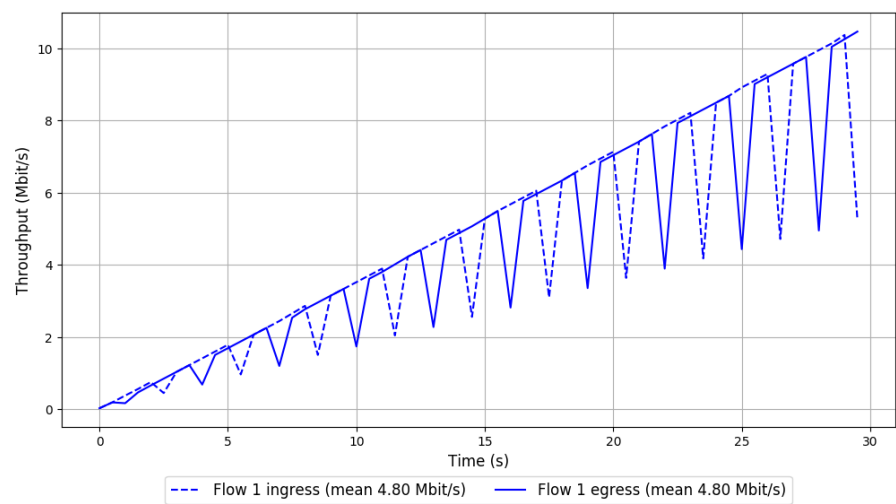
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.096 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-27 16:04:08

End at: 2018-03-27 16:04:38

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 136.988 ms

Loss rate: 0.00%

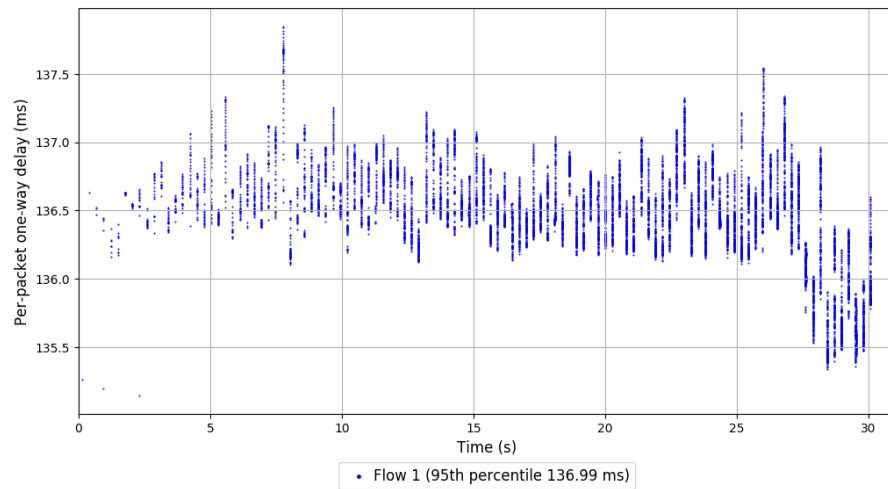
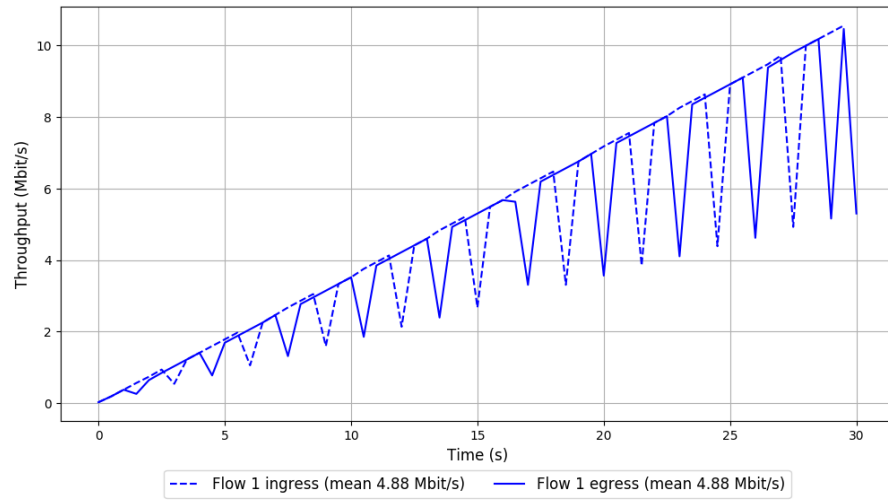
-- Flow 1:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 136.988 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-27 16:20:01

End at: 2018-03-27 16:20:31

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.89 Mbit/s

95th percentile per-packet one-way delay: 135.926 ms

Loss rate: 0.00%

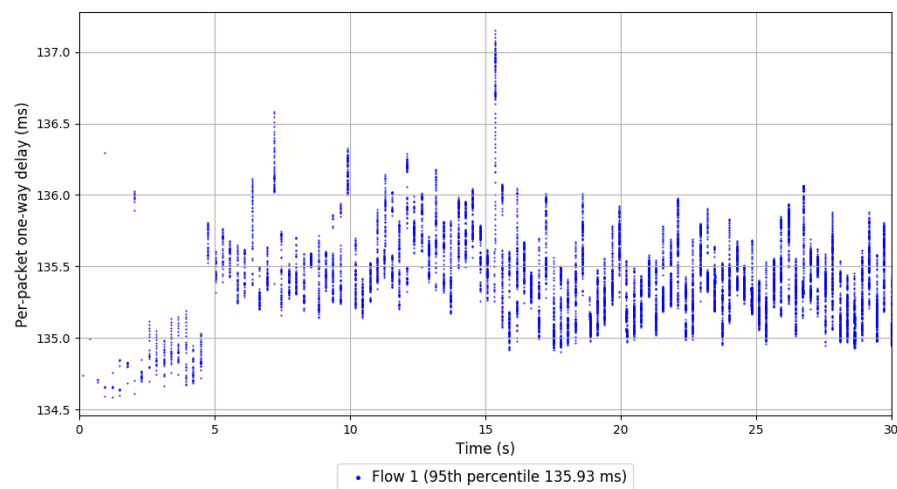
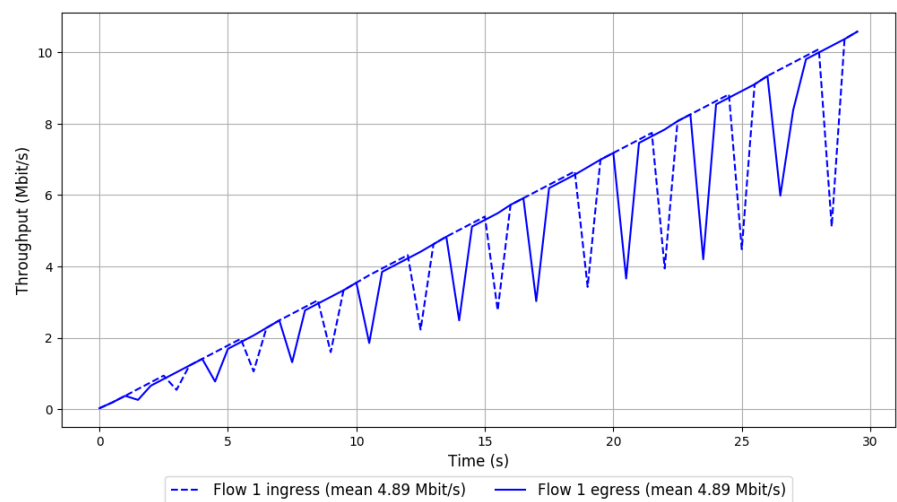
-- Flow 1:

Average throughput: 4.89 Mbit/s

95th percentile per-packet one-way delay: 135.926 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-27 16:35:45

End at: 2018-03-27 16:36:15

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 135.780 ms

Loss rate: 0.00%

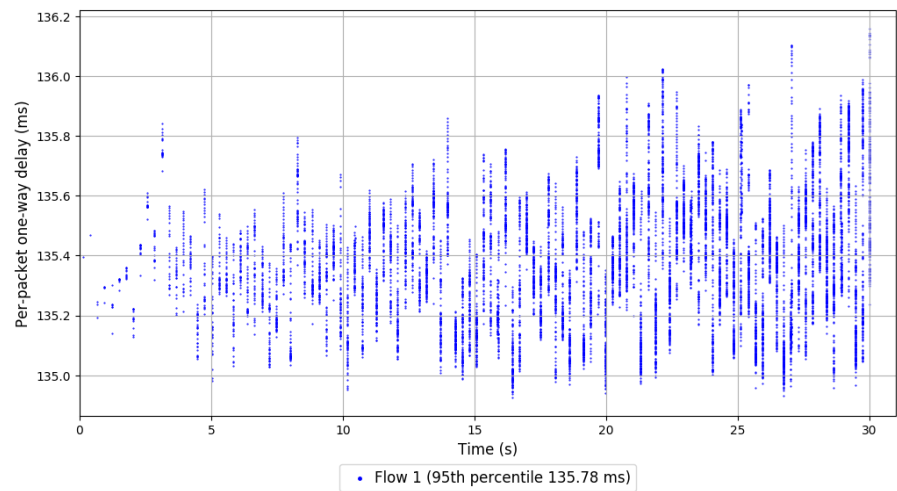
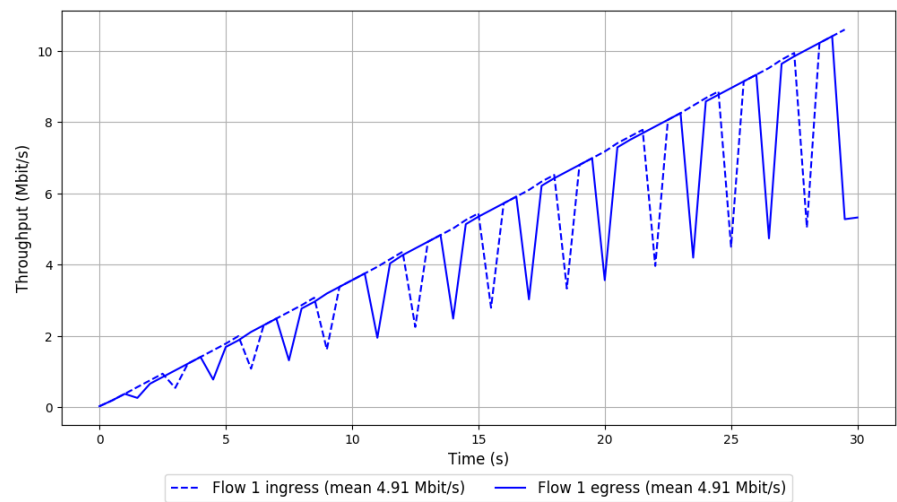
-- Flow 1:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 135.780 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-27 16:51:32

End at: 2018-03-27 16:52:02

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 136.725 ms

Loss rate: 0.00%

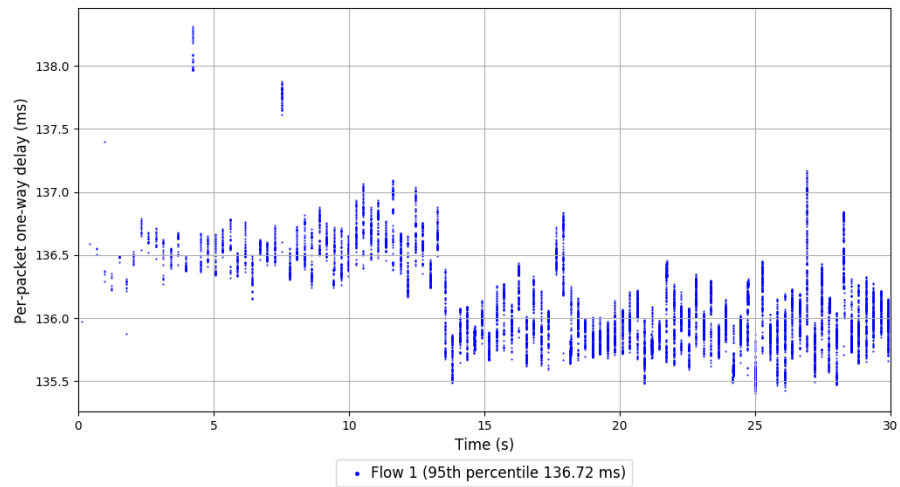
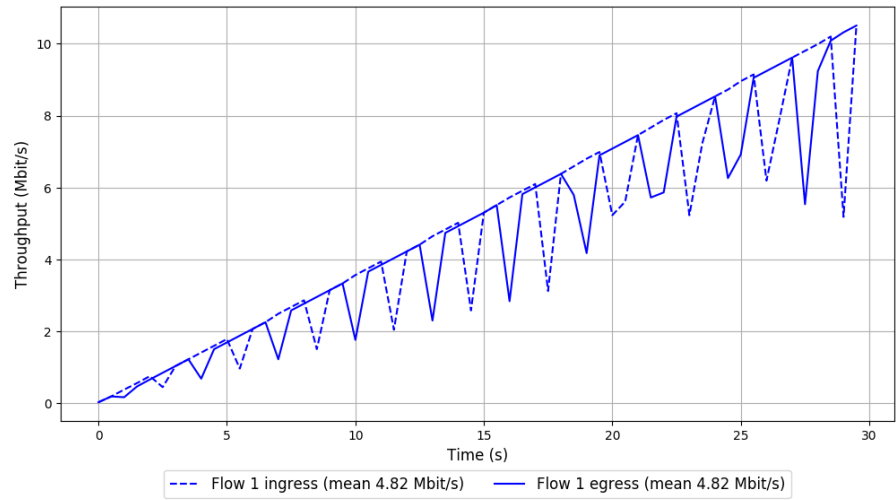
-- Flow 1:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 136.725 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-27 17:07:13

End at: 2018-03-27 17:07:43

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 137.301 ms

Loss rate: 0.00%

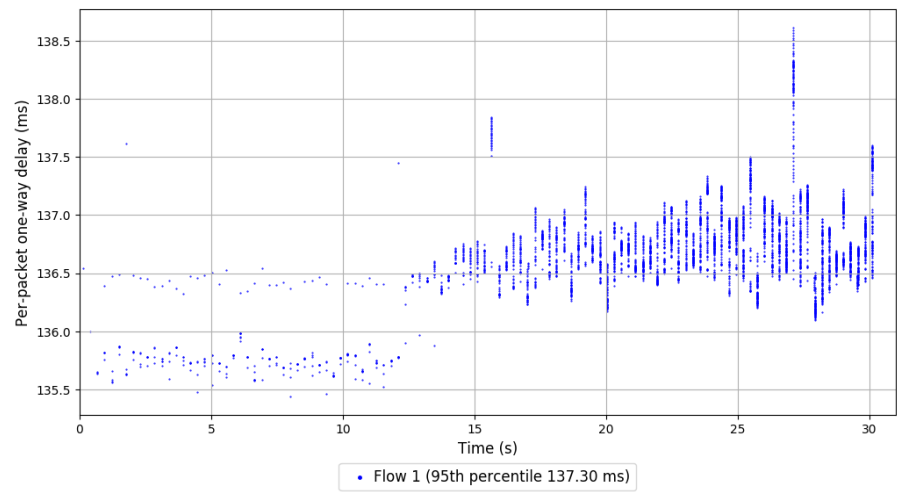
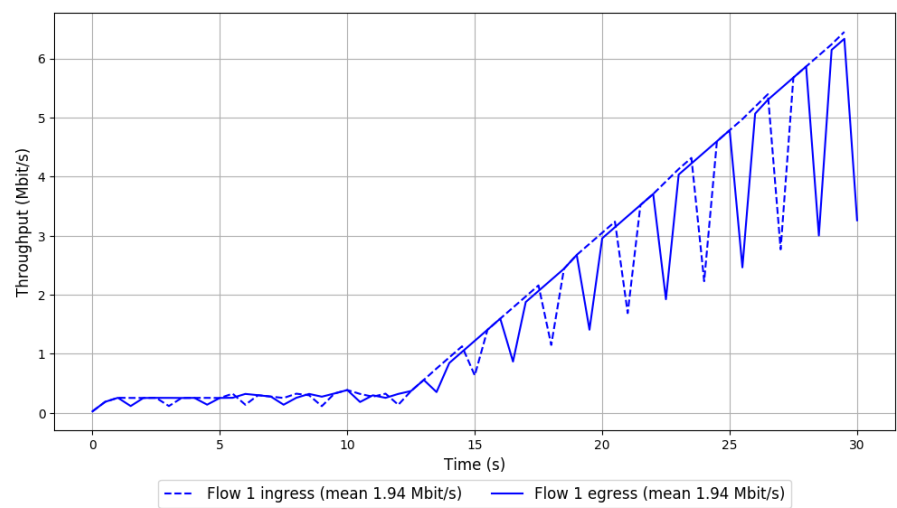
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 137.301 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-27 17:23:00

End at: 2018-03-27 17:23:30

Below is generated by plot.py at 2018-03-27 18:59:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.448 ms

Loss rate: 0.00%

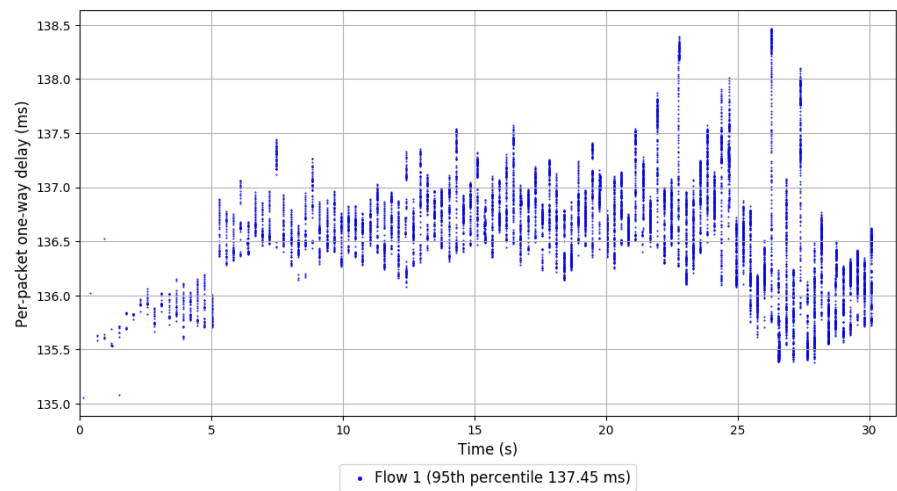
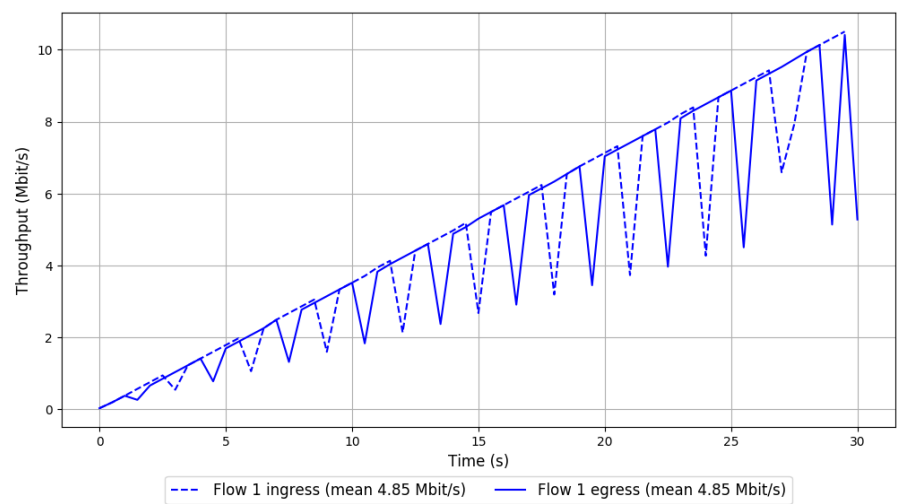
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.448 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

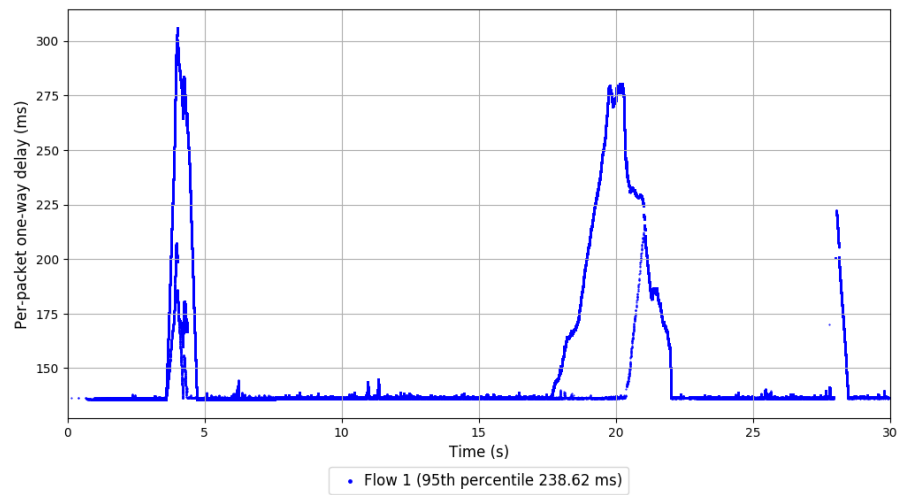
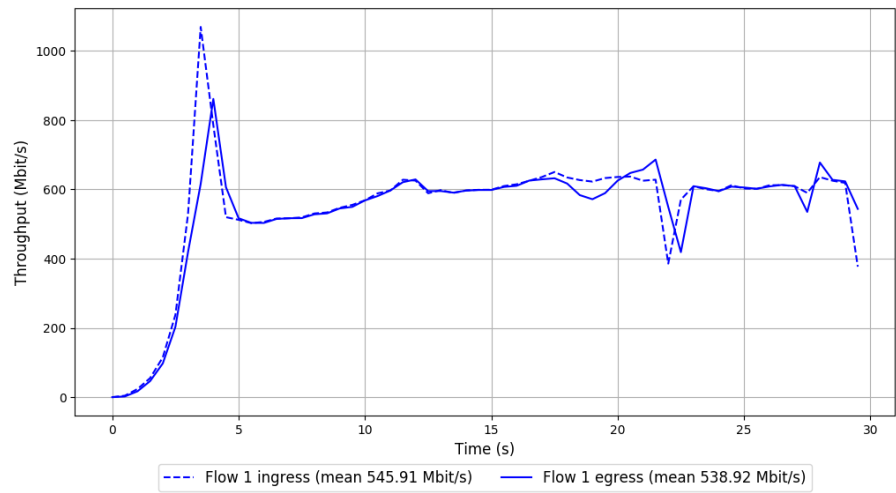


```
Run 1: Statistics of PCC

Start at: 2018-03-27 14:50:08
End at: 2018-03-27 14:50:38

# Below is generated by plot.py at 2018-03-27 19:10:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 538.92 Mbit/s
95th percentile per-packet one-way delay: 238.619 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 538.92 Mbit/s
95th percentile per-packet one-way delay: 238.619 ms
Loss rate: 1.28%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-27 15:05:43

End at: 2018-03-27 15:06:13

Below is generated by plot.py at 2018-03-27 19:10:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.65 Mbit/s

95th percentile per-packet one-way delay: 193.875 ms

Loss rate: 1.07%

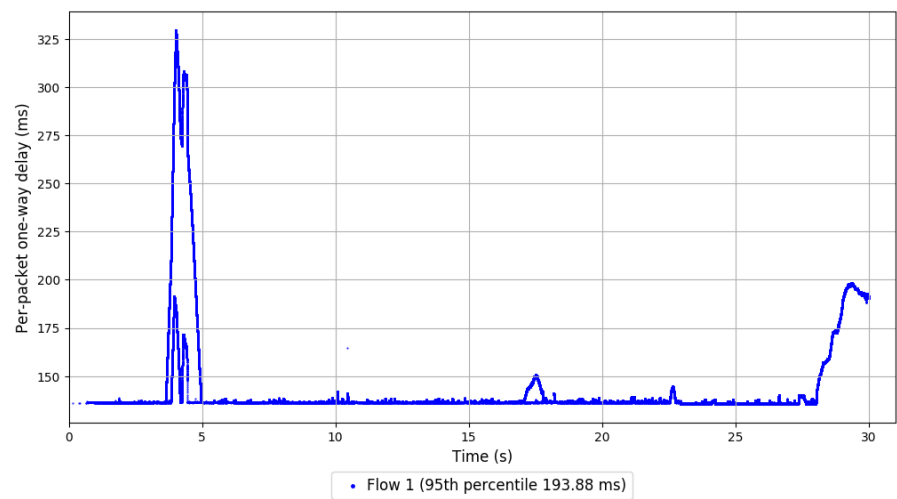
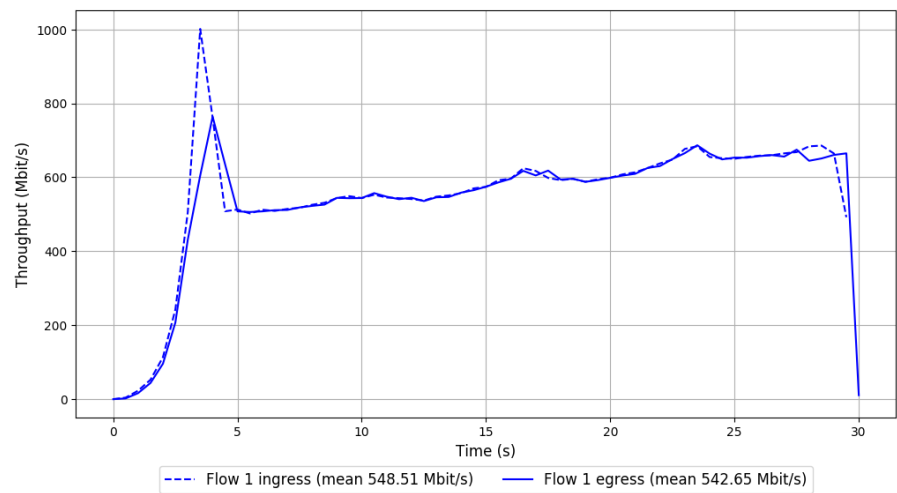
-- Flow 1:

Average throughput: 542.65 Mbit/s

95th percentile per-packet one-way delay: 193.875 ms

Loss rate: 1.07%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-27 15:21:21

End at: 2018-03-27 15:21:51

Below is generated by plot.py at 2018-03-27 19:10:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.48 Mbit/s

95th percentile per-packet one-way delay: 173.683 ms

Loss rate: 1.49%

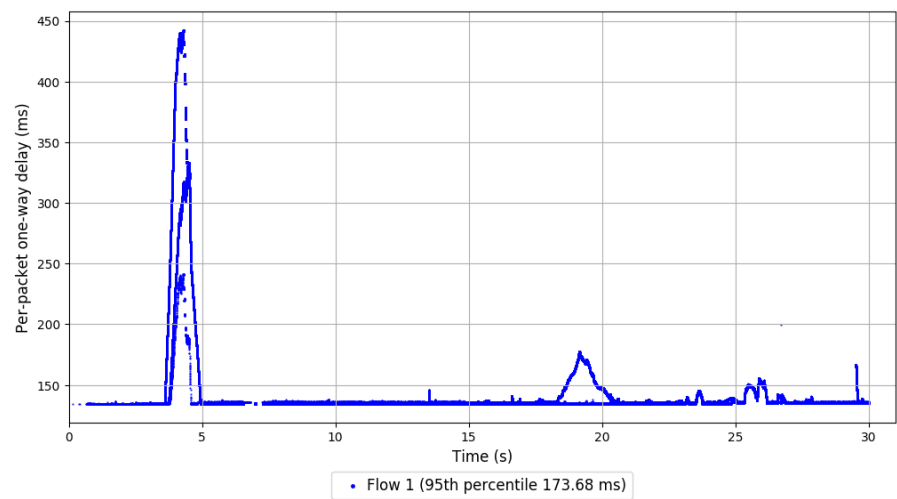
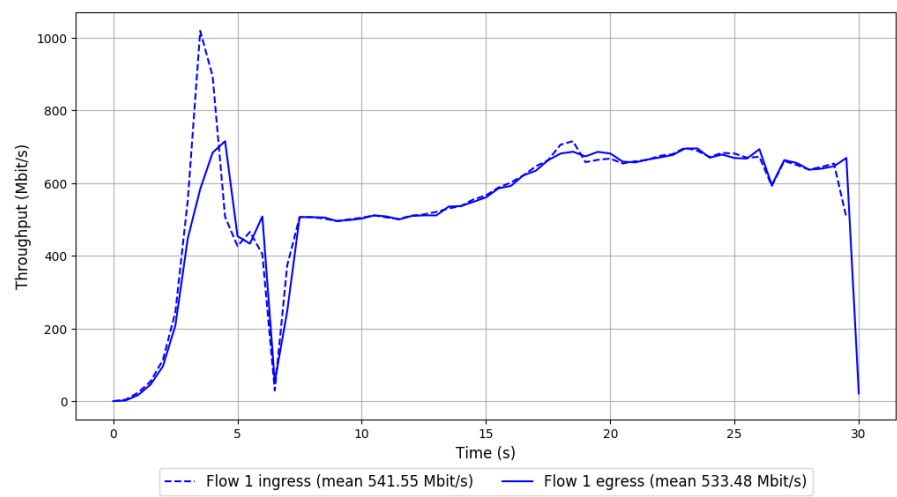
-- Flow 1:

Average throughput: 533.48 Mbit/s

95th percentile per-packet one-way delay: 173.683 ms

Loss rate: 1.49%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-27 15:37:21

End at: 2018-03-27 15:37:51

Below is generated by plot.py at 2018-03-27 19:10:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 561.13 Mbit/s

95th percentile per-packet one-way delay: 205.834 ms

Loss rate: 1.31%

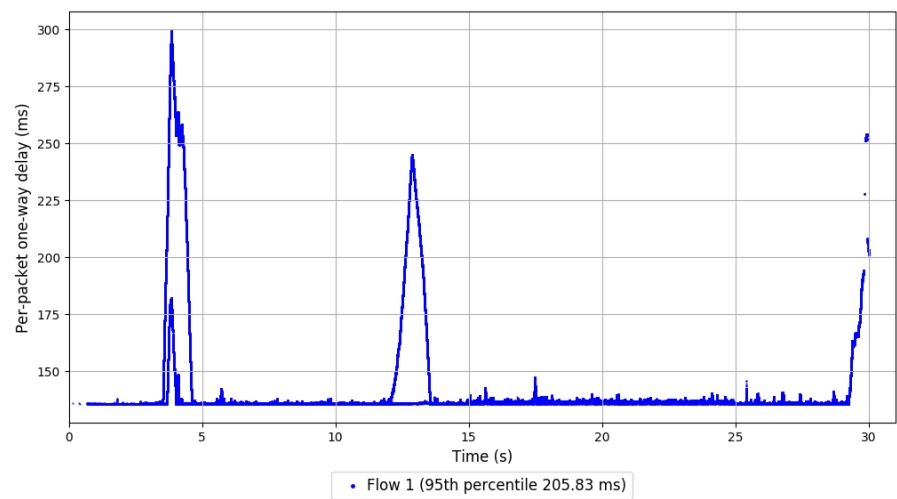
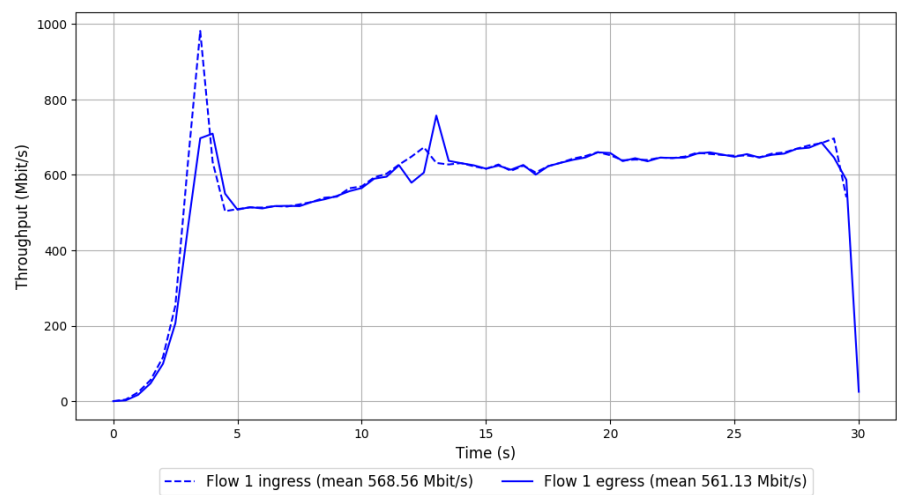
-- Flow 1:

Average throughput: 561.13 Mbit/s

95th percentile per-packet one-way delay: 205.834 ms

Loss rate: 1.31%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-27 15:53:25

End at: 2018-03-27 15:53:55

Below is generated by plot.py at 2018-03-27 19:10:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 552.29 Mbit/s

95th percentile per-packet one-way delay: 257.429 ms

Loss rate: 1.72%

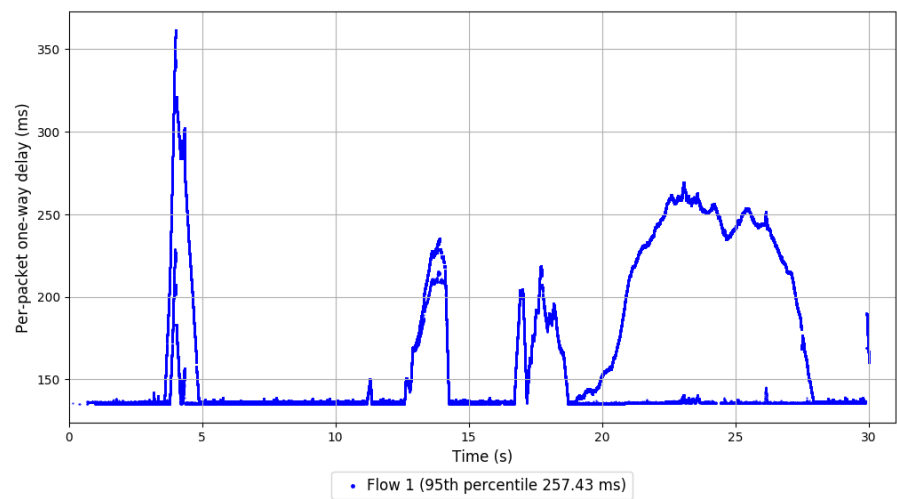
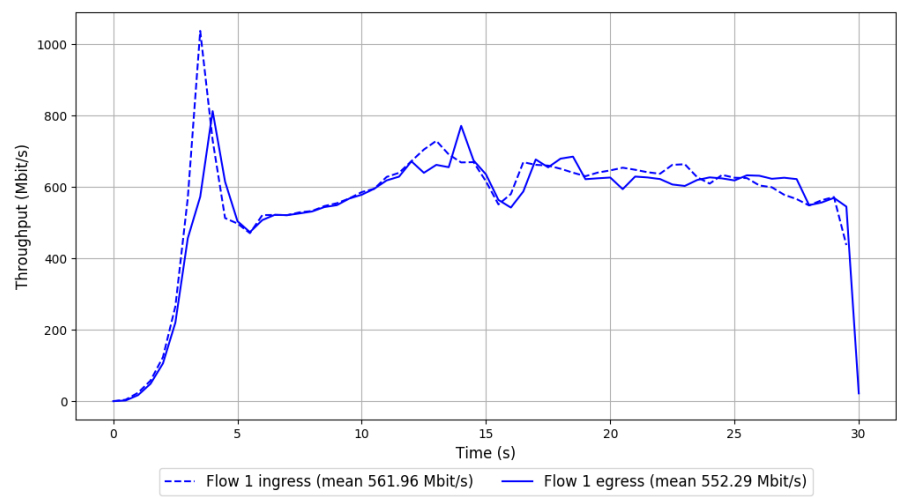
-- Flow 1:

Average throughput: 552.29 Mbit/s

95th percentile per-packet one-way delay: 257.429 ms

Loss rate: 1.72%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-27 16:08:50

End at: 2018-03-27 16:09:20

Below is generated by plot.py at 2018-03-27 19:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 580.96 Mbit/s

95th percentile per-packet one-way delay: 168.173 ms

Loss rate: 0.92%

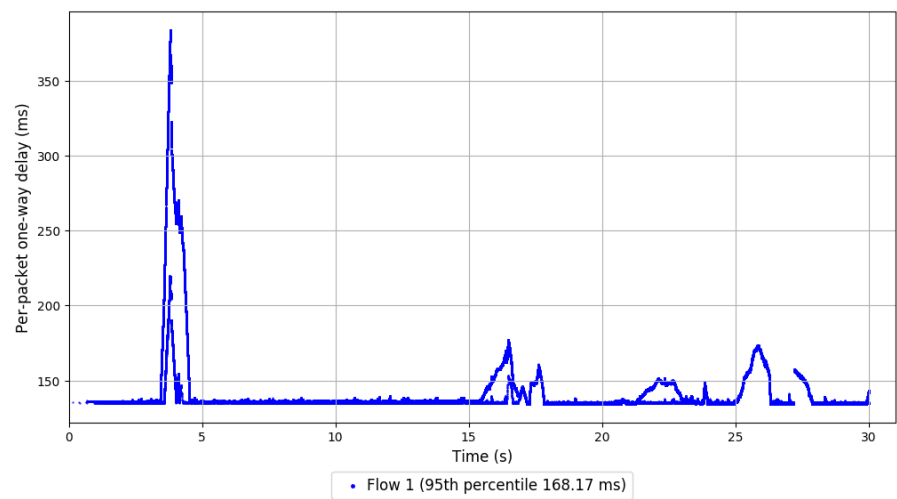
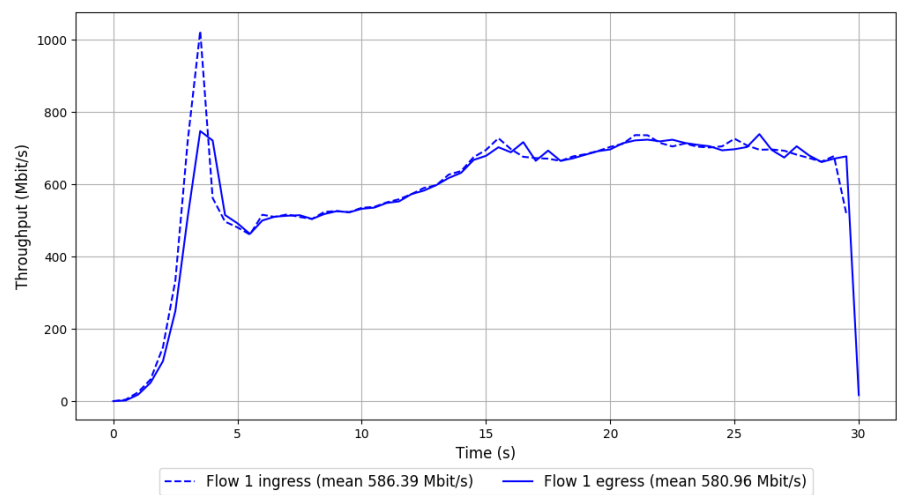
-- Flow 1:

Average throughput: 580.96 Mbit/s

95th percentile per-packet one-way delay: 168.173 ms

Loss rate: 0.92%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-27 16:24:51

End at: 2018-03-27 16:25:21

Below is generated by plot.py at 2018-03-27 19:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.97 Mbit/s

95th percentile per-packet one-way delay: 215.318 ms

Loss rate: 1.94%

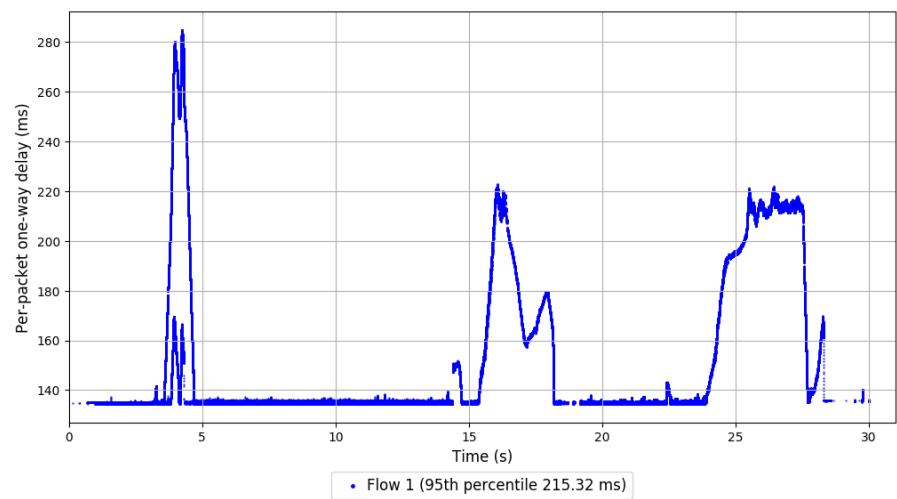
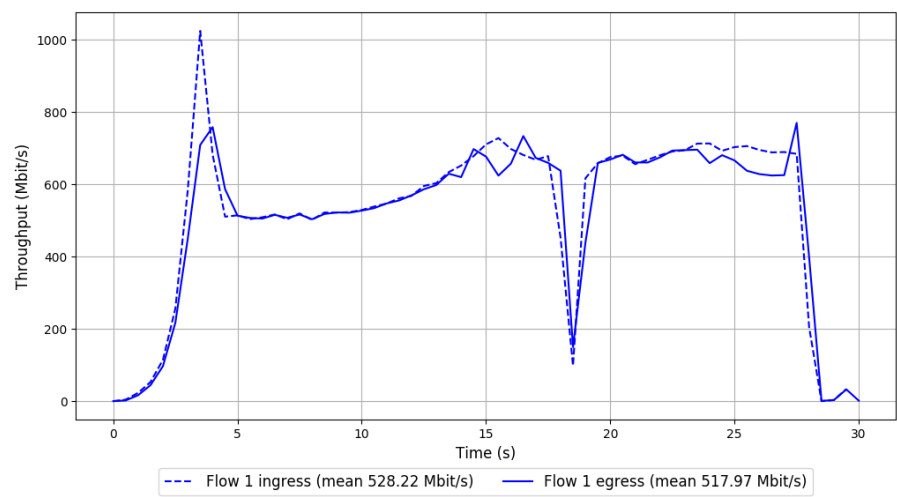
-- Flow 1:

Average throughput: 517.97 Mbit/s

95th percentile per-packet one-way delay: 215.318 ms

Loss rate: 1.94%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-27 16:40:32

End at: 2018-03-27 16:41:02

Below is generated by plot.py at 2018-03-27 19:11:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 557.80 Mbit/s

95th percentile per-packet one-way delay: 269.150 ms

Loss rate: 1.77%

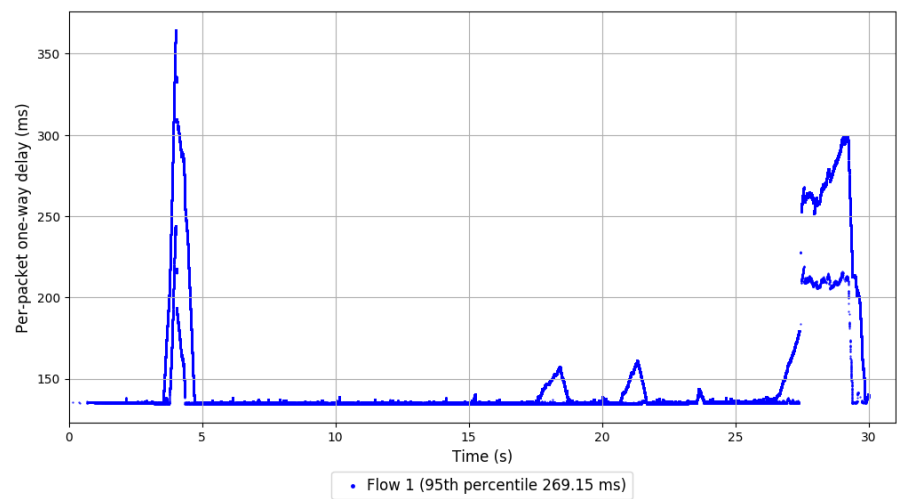
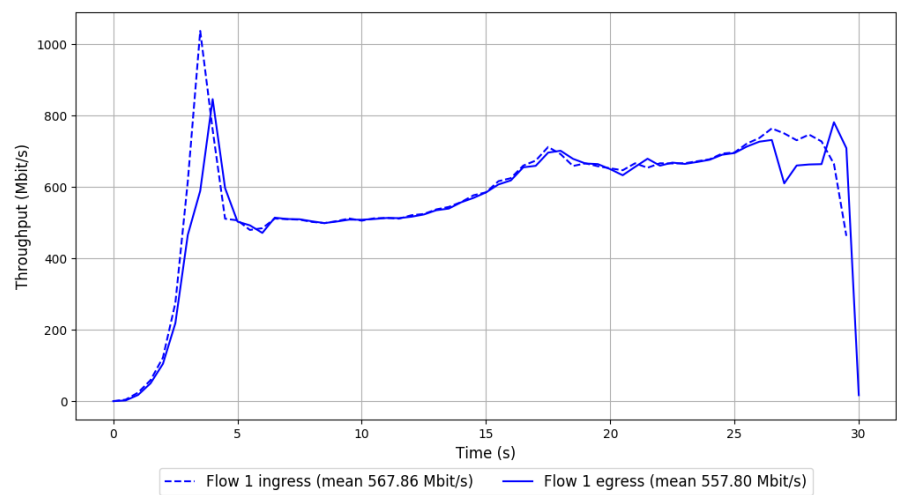
-- Flow 1:

Average throughput: 557.80 Mbit/s

95th percentile per-packet one-way delay: 269.150 ms

Loss rate: 1.77%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-27 16:56:14

End at: 2018-03-27 16:56:44

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.87 Mbit/s

95th percentile per-packet one-way delay: 267.633 ms

Loss rate: 3.98%

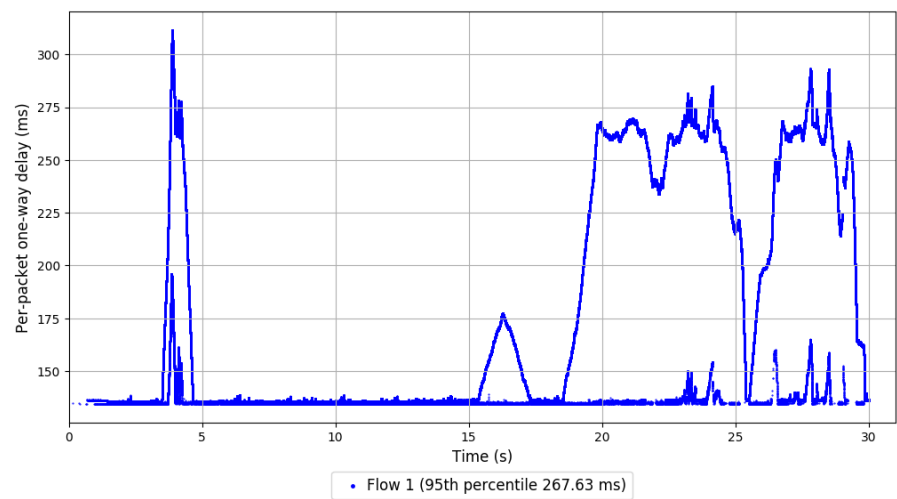
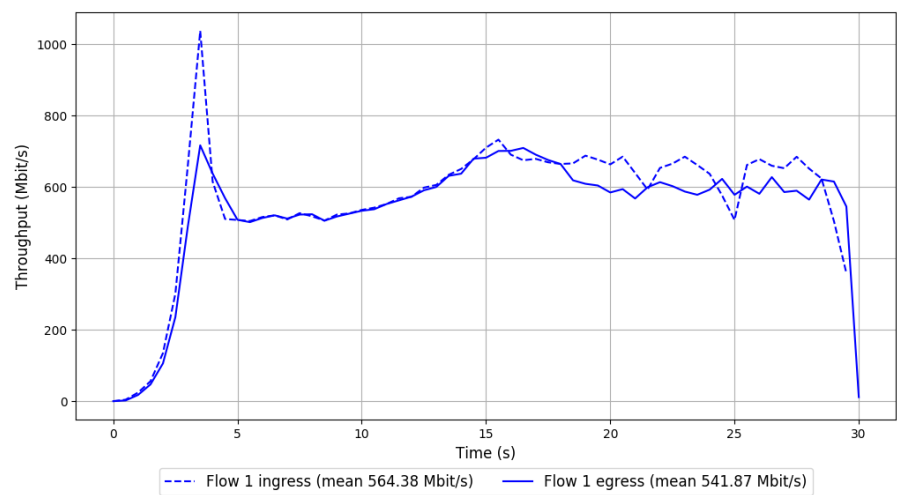
-- Flow 1:

Average throughput: 541.87 Mbit/s

95th percentile per-packet one-way delay: 267.633 ms

Loss rate: 3.98%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-27 17:11:48

End at: 2018-03-27 17:12:19

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.47 Mbit/s

95th percentile per-packet one-way delay: 255.774 ms

Loss rate: 1.86%

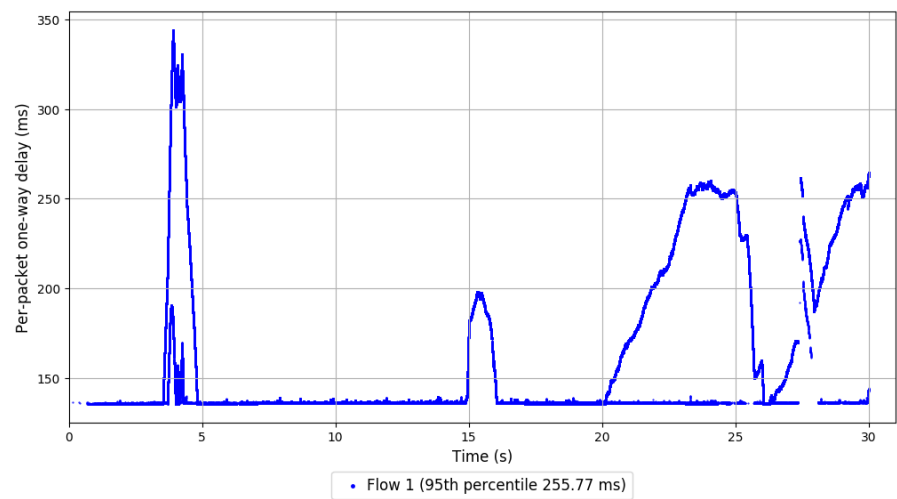
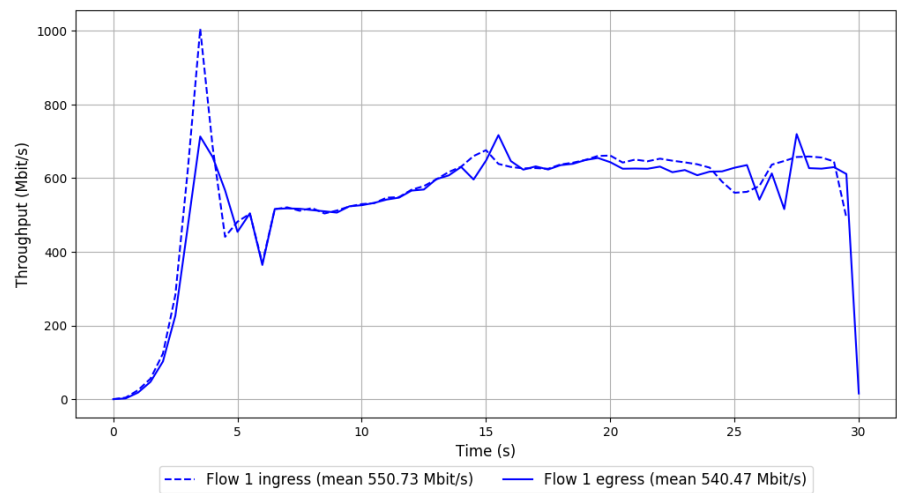
-- Flow 1:

Average throughput: 540.47 Mbit/s

95th percentile per-packet one-way delay: 255.774 ms

Loss rate: 1.86%

Run 10: Report of PCC — Data Link

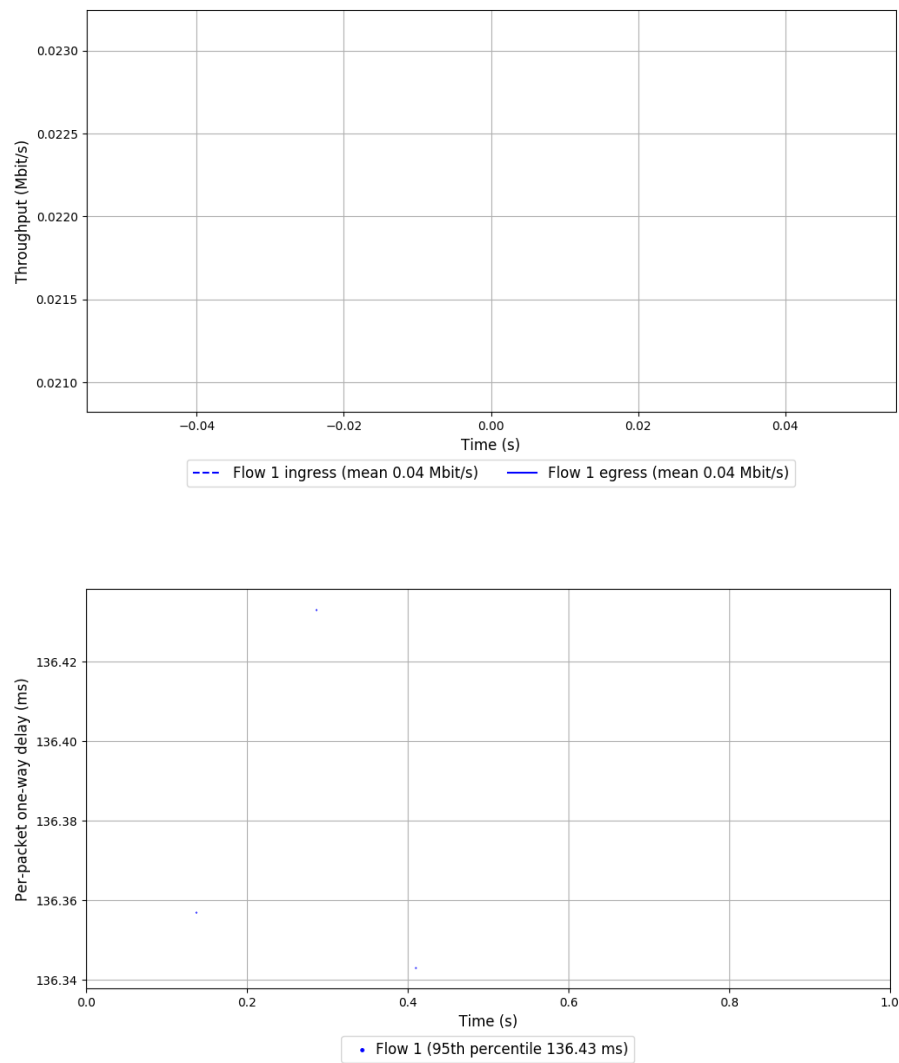


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-27 14:46:55

End at: 2018-03-27 14:47:25

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-27 15:02:21

End at: 2018-03-27 15:02:51

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.82 Mbit/s

95th percentile per-packet one-way delay: 136.131 ms

Loss rate: 0.00%

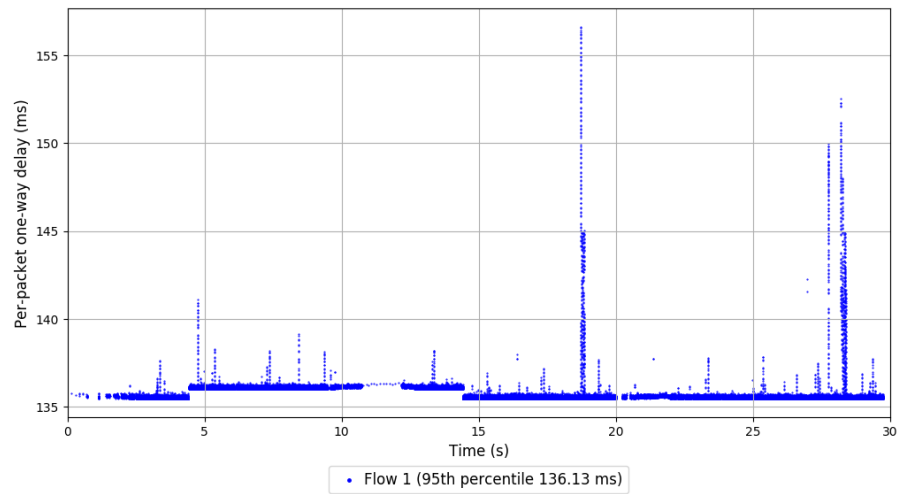
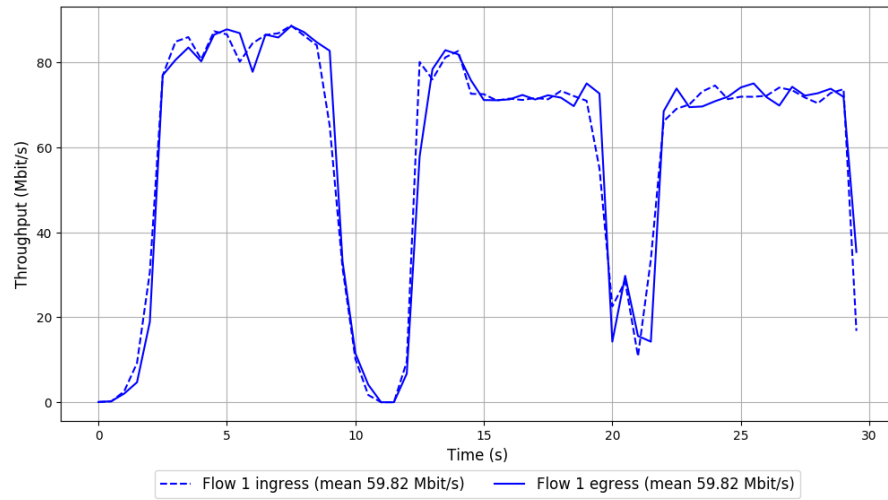
-- Flow 1:

Average throughput: 59.82 Mbit/s

95th percentile per-packet one-way delay: 136.131 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-27 15:18:01

End at: 2018-03-27 15:18:31

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.07 Mbit/s

95th percentile per-packet one-way delay: 135.296 ms

Loss rate: 0.00%

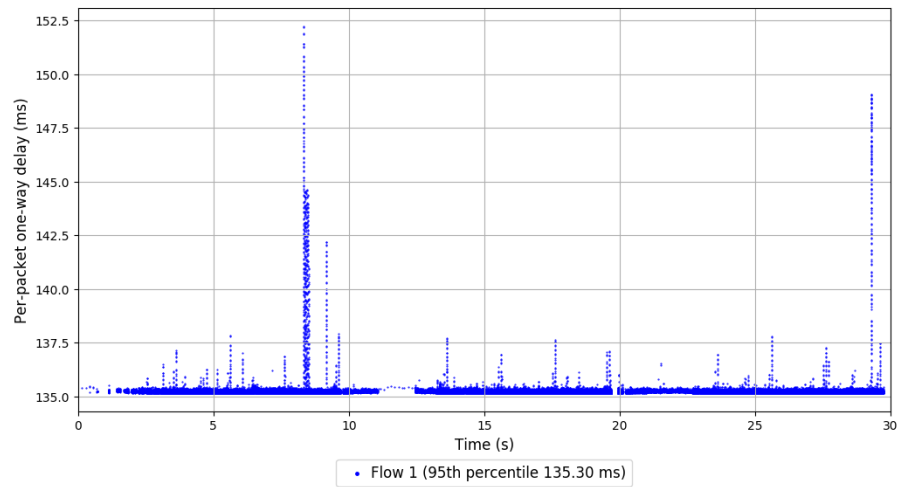
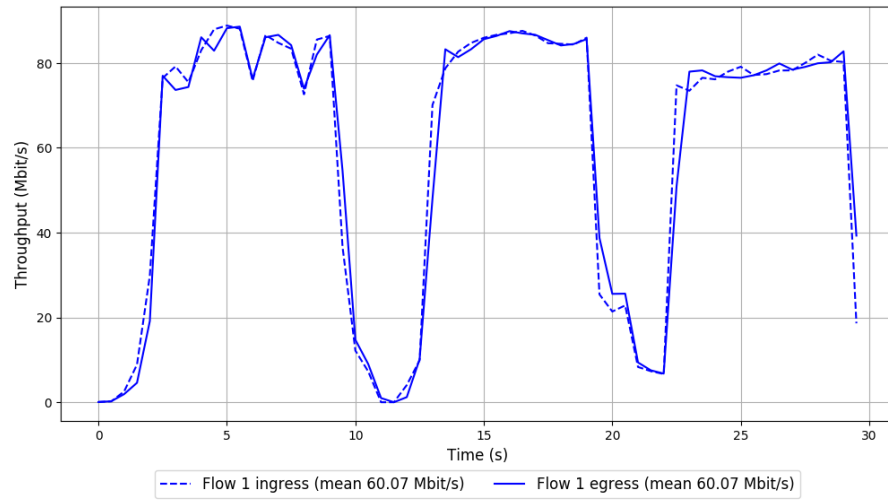
-- Flow 1:

Average throughput: 60.07 Mbit/s

95th percentile per-packet one-way delay: 135.296 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-27 15:34:04

End at: 2018-03-27 15:34:34

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.97 Mbit/s

95th percentile per-packet one-way delay: 135.851 ms

Loss rate: 0.00%

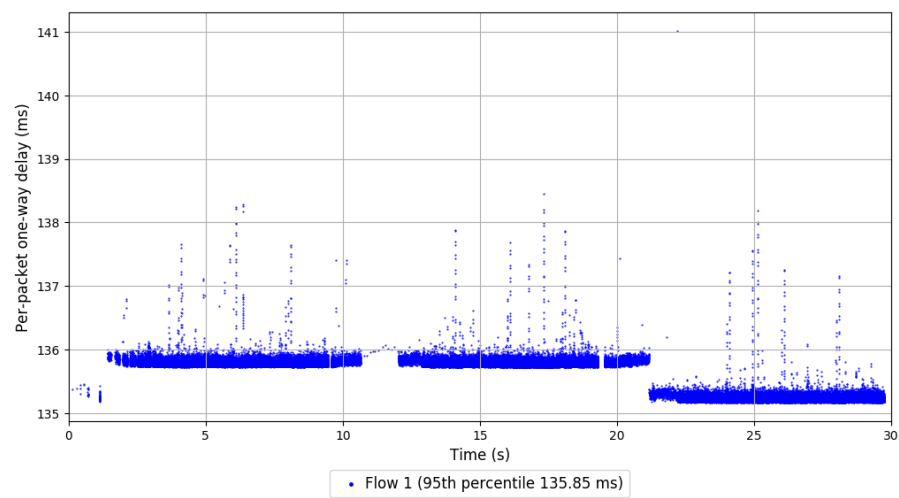
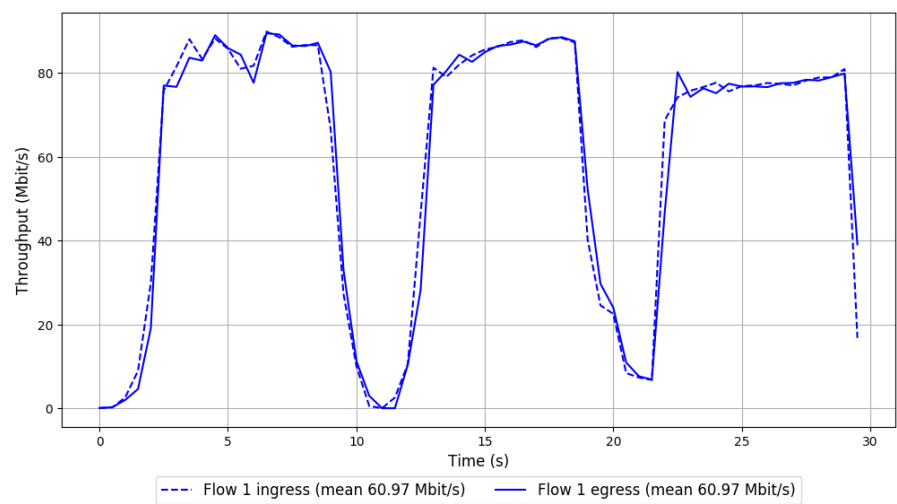
-- Flow 1:

Average throughput: 60.97 Mbit/s

95th percentile per-packet one-way delay: 135.851 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-27 15:50:03

End at: 2018-03-27 15:50:33

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.16 Mbit/s

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

Loss rate: 0.00%

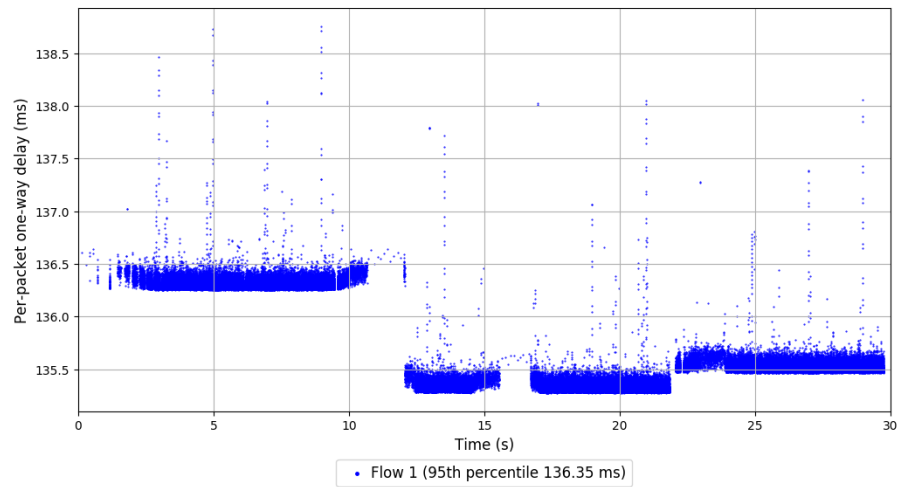
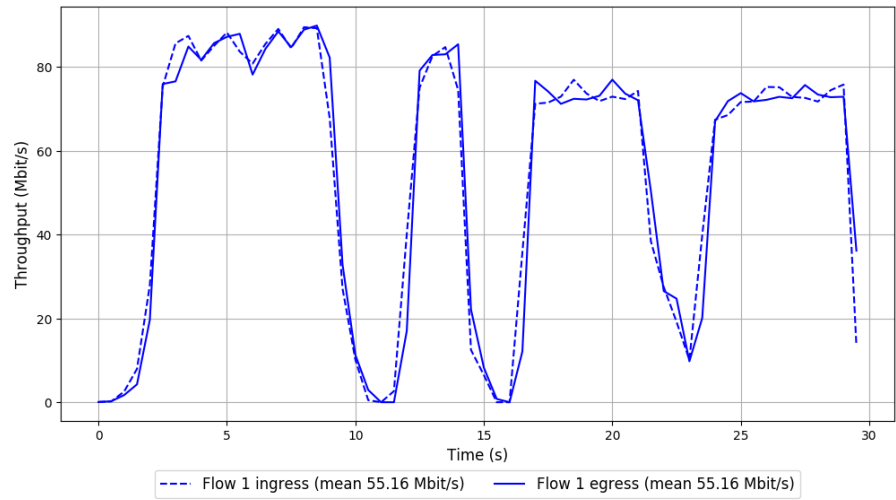
-- Flow 1:

Average throughput: 55.16 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-27 16:05:33

End at: 2018-03-27 16:06:03

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 135.485 ms

Loss rate: 0.00%

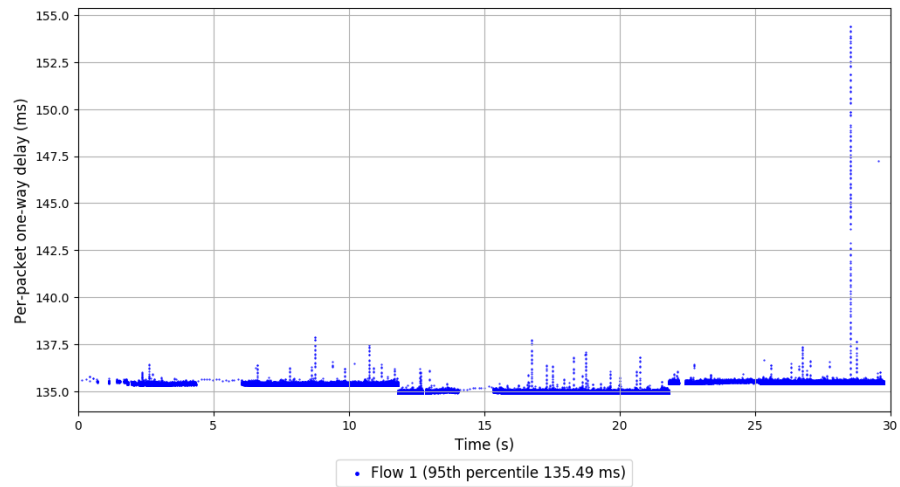
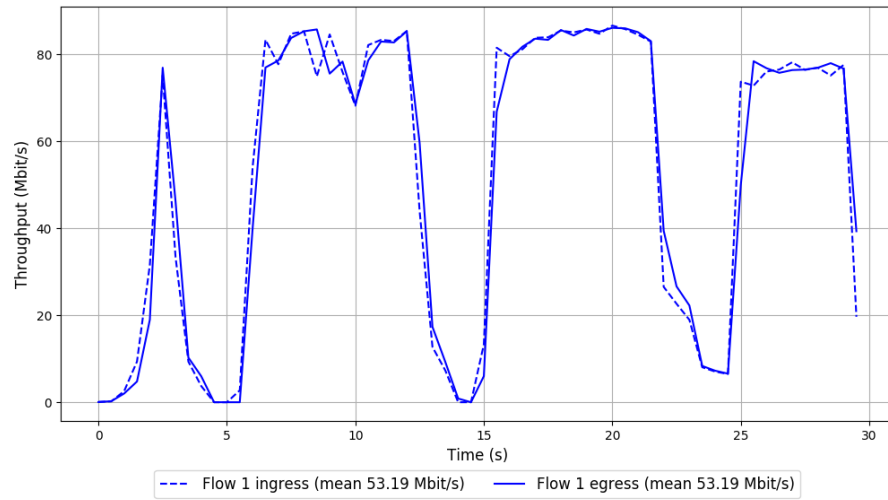
-- Flow 1:

Average throughput: 53.19 Mbit/s

95th percentile per-packet one-way delay: 135.485 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-27 16:21:26

End at: 2018-03-27 16:21:56

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.89 Mbit/s

95th percentile per-packet one-way delay: 136.541 ms

Loss rate: 0.00%

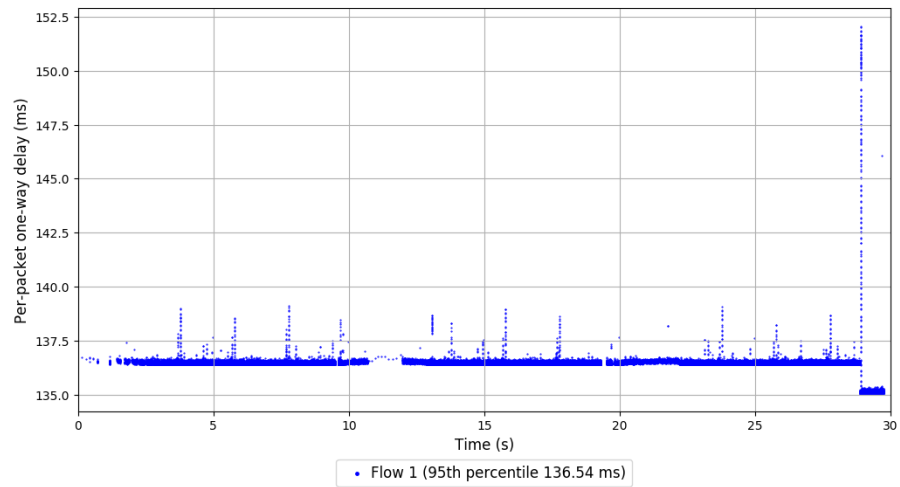
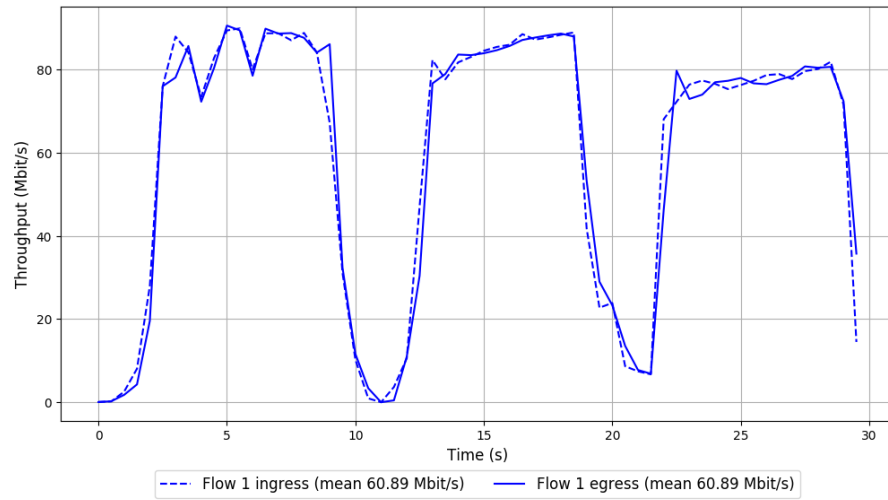
-- Flow 1:

Average throughput: 60.89 Mbit/s

95th percentile per-packet one-way delay: 136.541 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-27 16:37:10

End at: 2018-03-27 16:37:40

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 136.526 ms

Loss rate: 0.00%

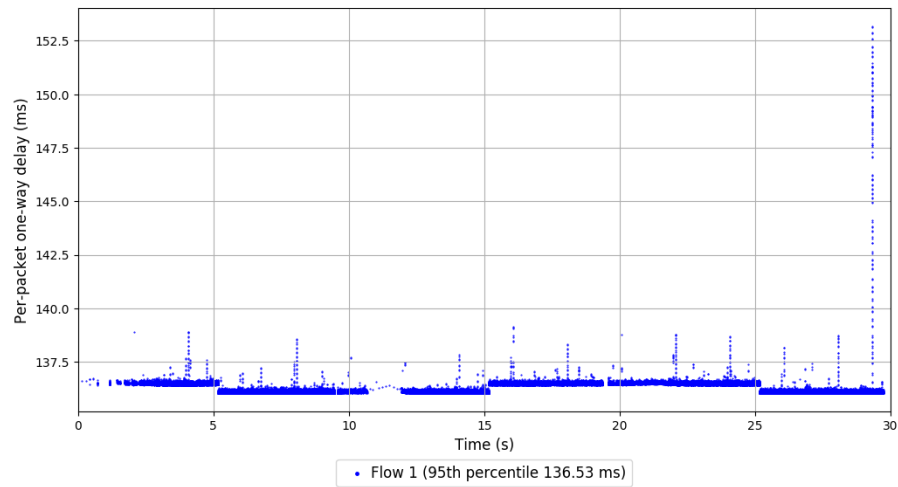
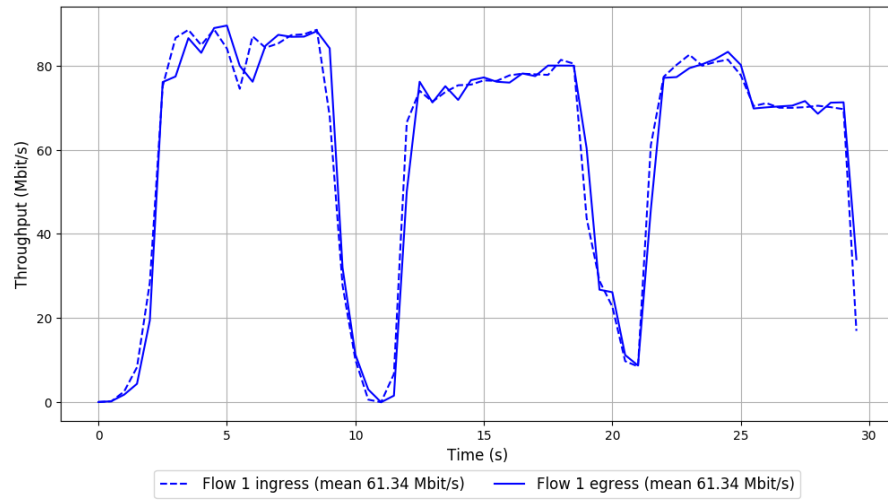
-- Flow 1:

Average throughput: 61.34 Mbit/s

95th percentile per-packet one-way delay: 136.526 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-27 16:52:58

End at: 2018-03-27 16:53:28

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 136.175 ms

Loss rate: 0.00%

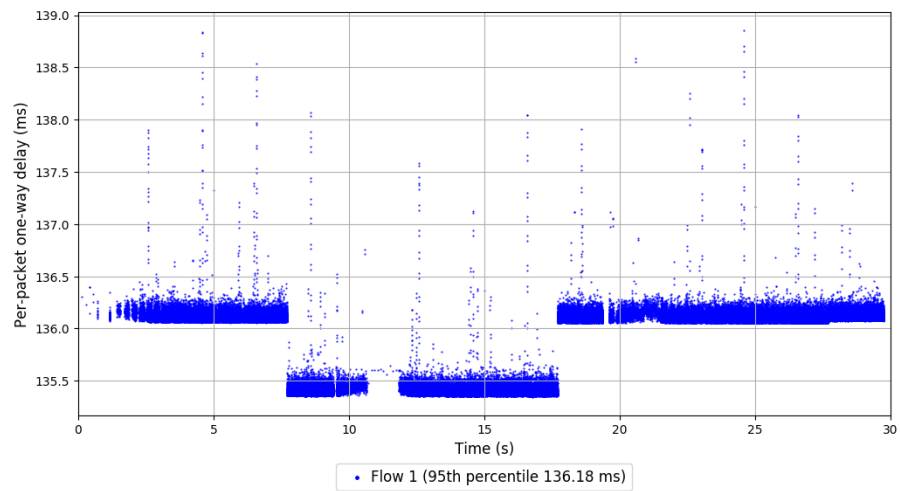
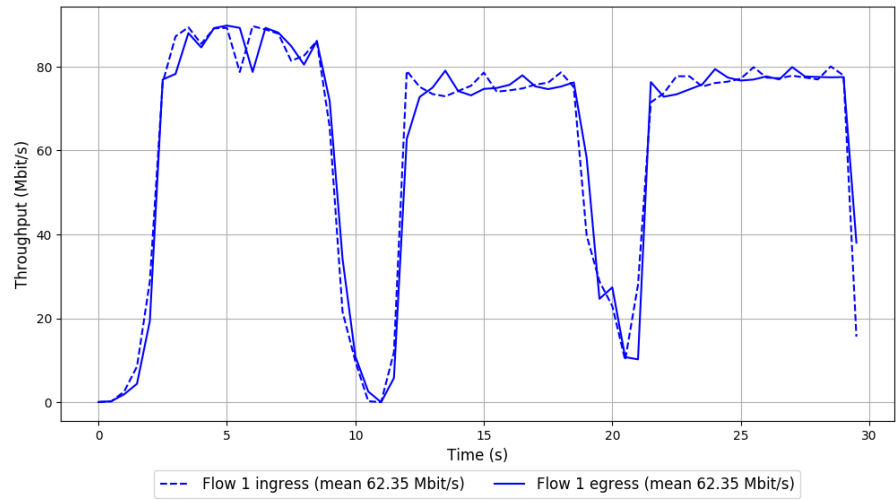
-- Flow 1:

Average throughput: 62.35 Mbit/s

95th percentile per-packet one-way delay: 136.175 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-27 17:08:38

End at: 2018-03-27 17:09:08

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 136.233 ms

Loss rate: 0.00%

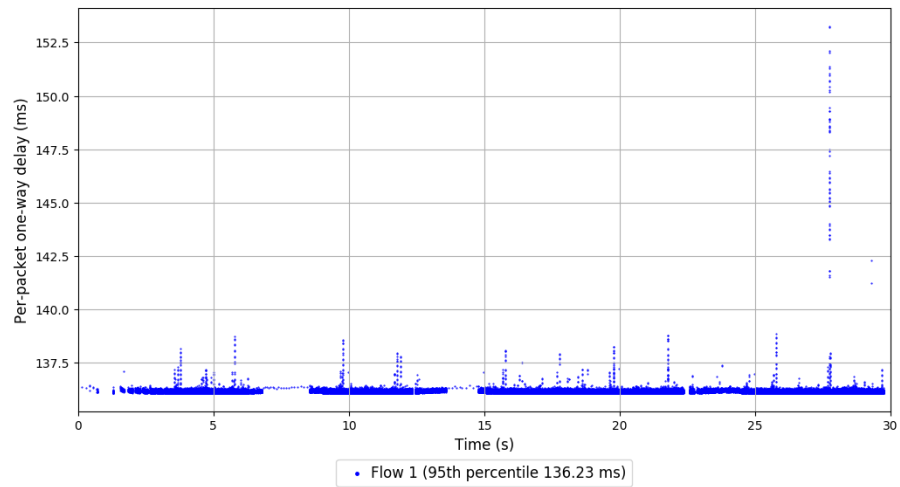
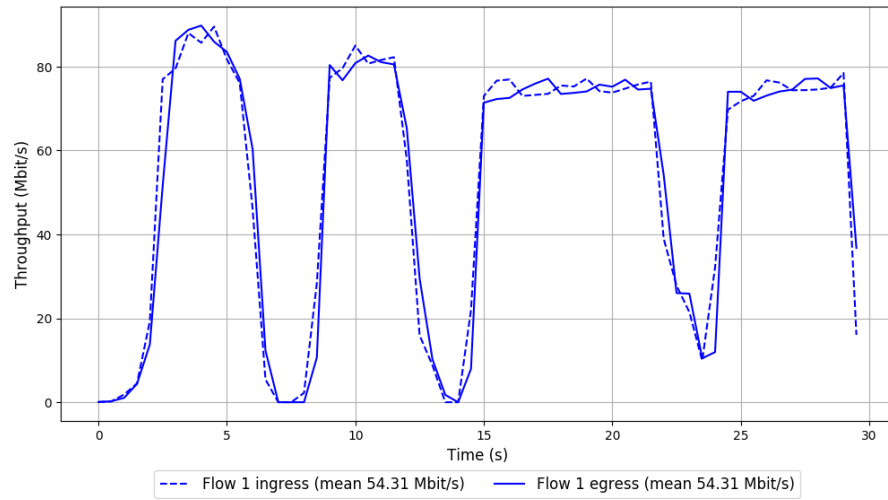
-- Flow 1:

Average throughput: 54.31 Mbit/s

95th percentile per-packet one-way delay: 136.233 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

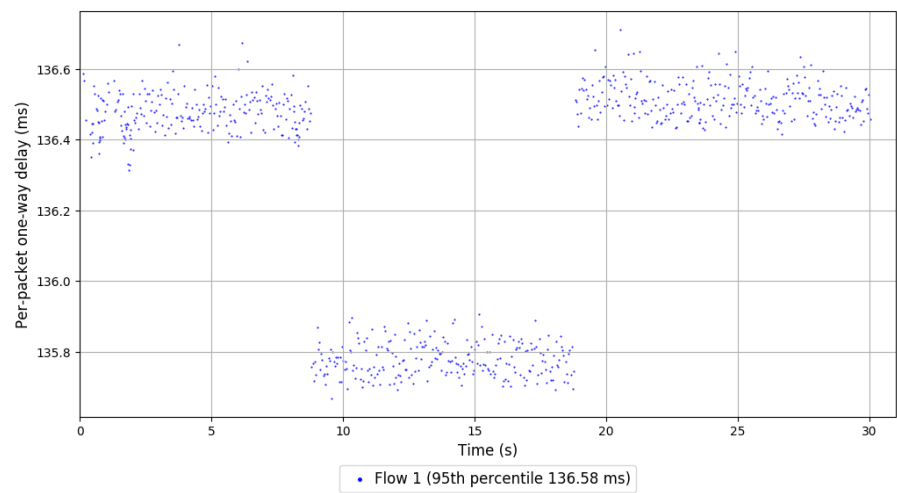
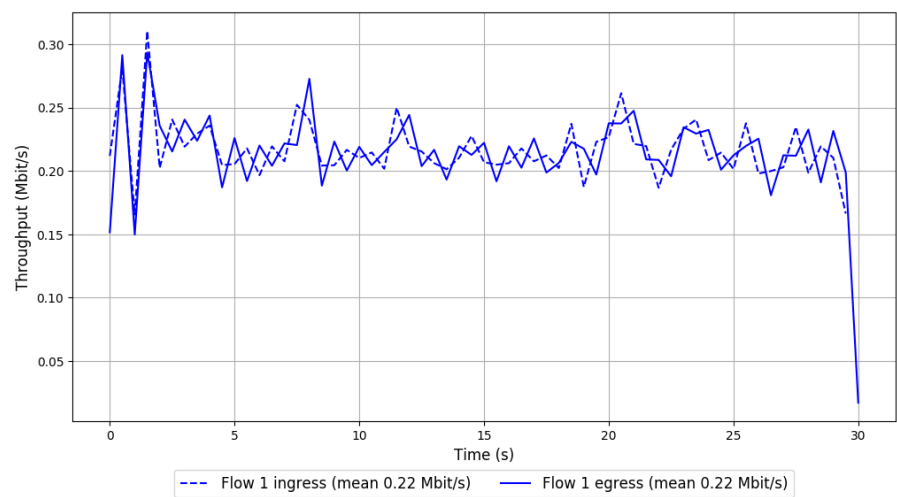


```
Run 1: Statistics of SCReAM

Start at: 2018-03-27 14:47:37
End at: 2018-03-27 14:48:07

# Below is generated by plot.py at 2018-03-27 19:22:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.576 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-27 15:03:07

End at: 2018-03-27 15:03:37

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.639 ms

Loss rate: 0.00%

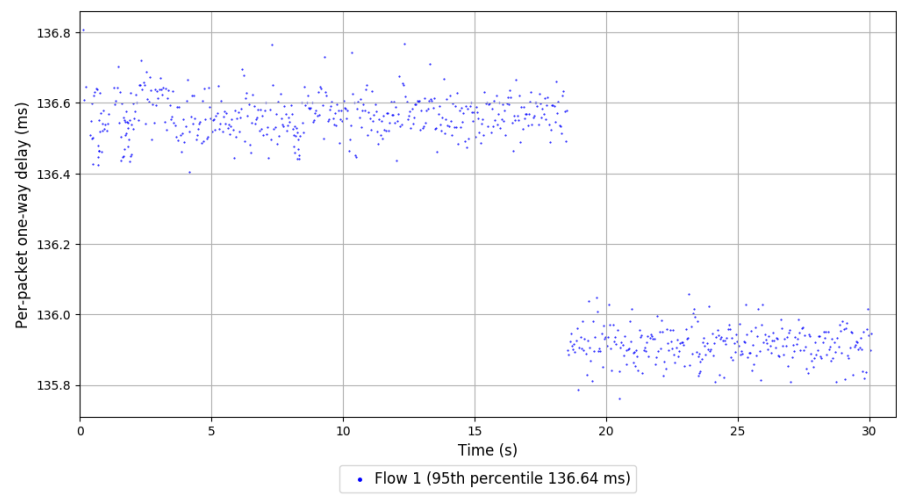
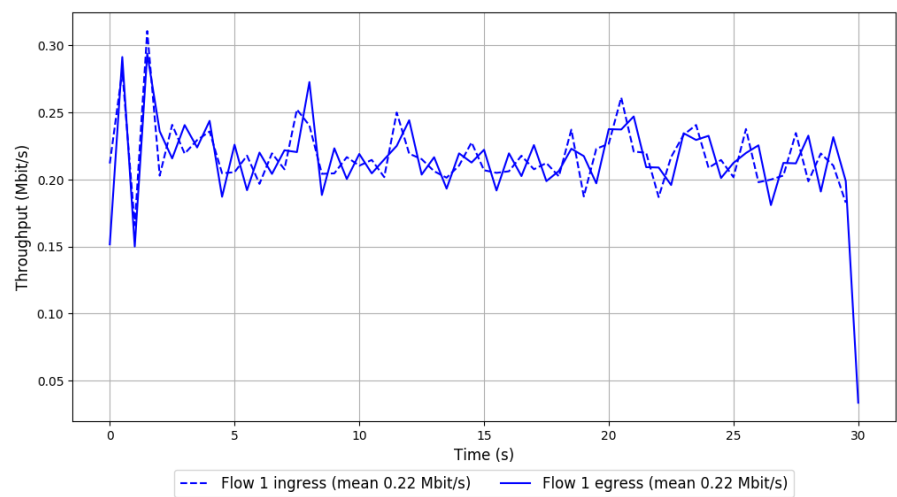
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.639 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-27 15:18:47

End at: 2018-03-27 15:19:17

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.548 ms

Loss rate: 0.00%

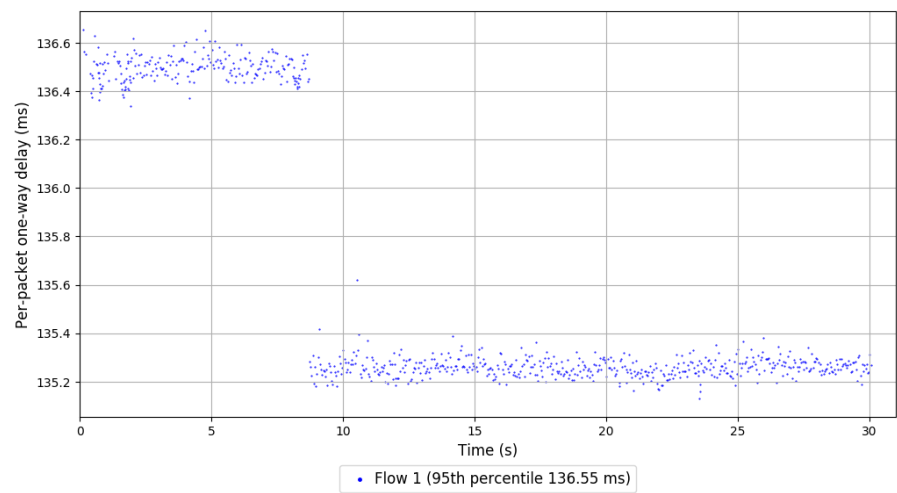
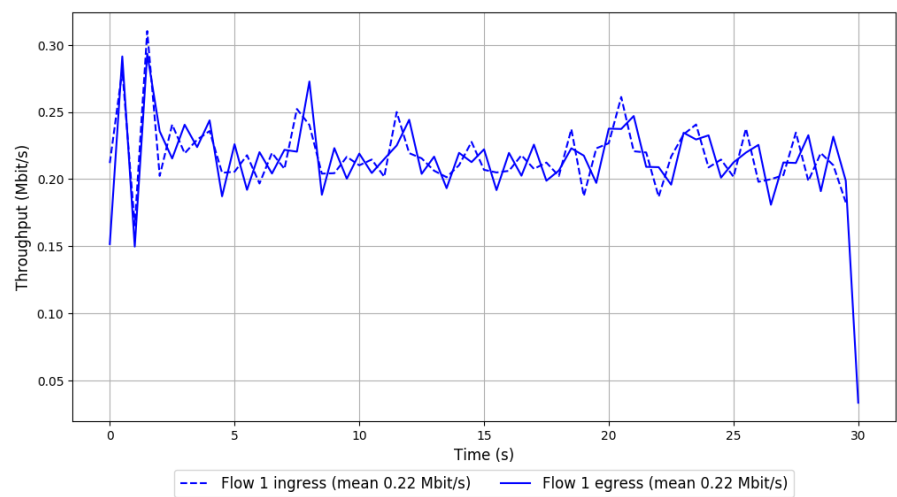
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.548 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-27 15:34:50

End at: 2018-03-27 15:35:20

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.824 ms

Loss rate: 0.00%

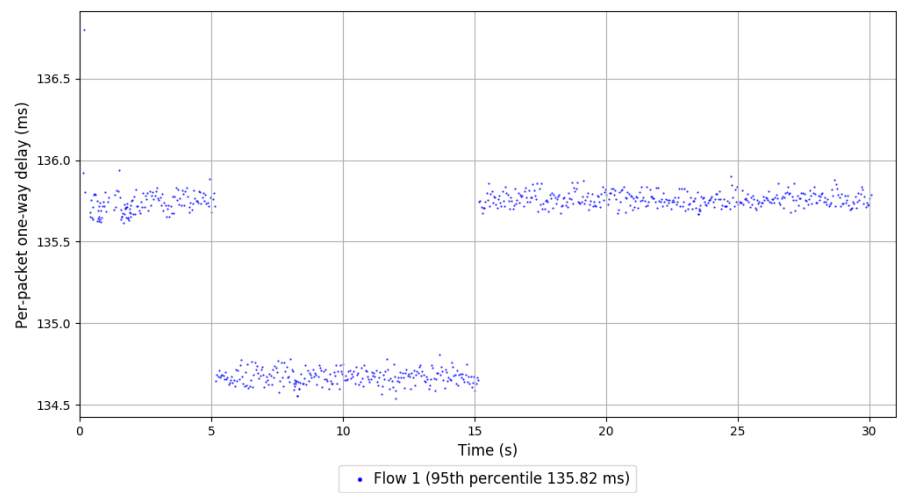
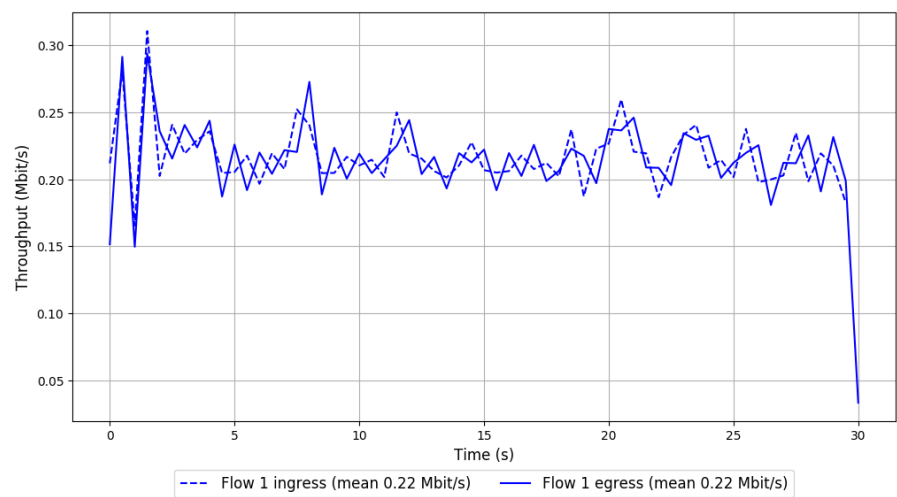
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.824 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-27 15:50:49

End at: 2018-03-27 15:51:19

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.633 ms

Loss rate: 0.00%

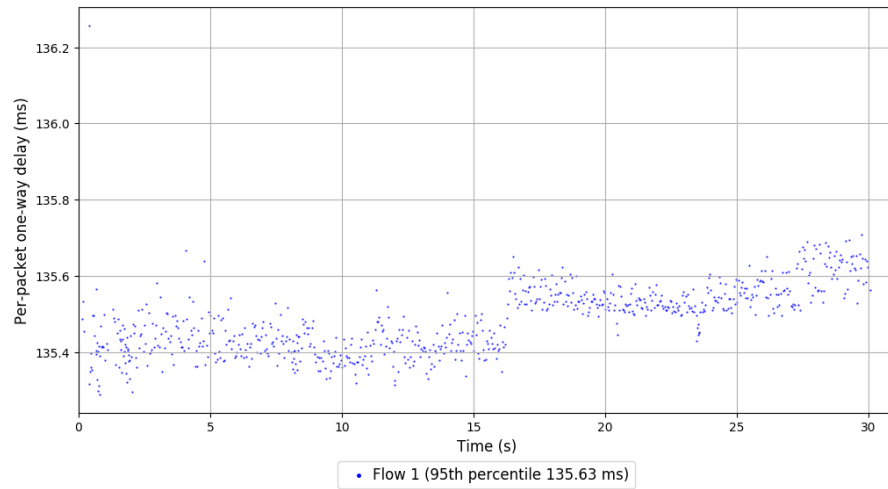
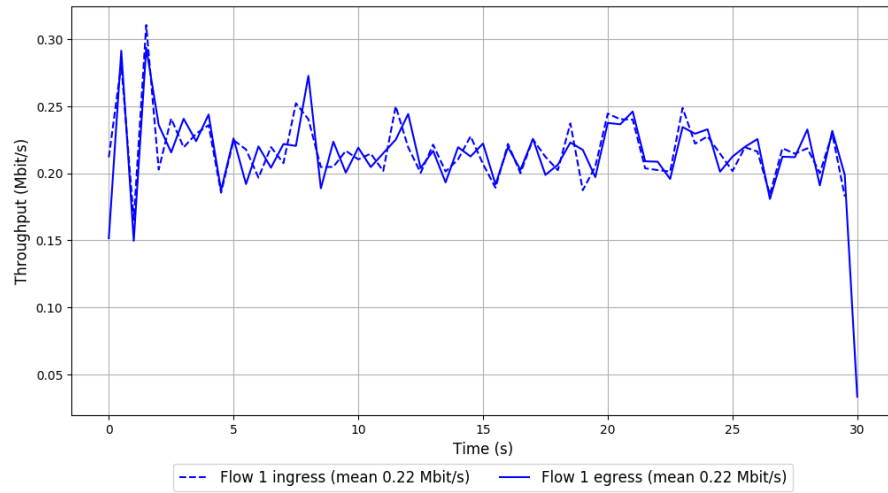
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.633 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-27 16:06:19

End at: 2018-03-27 16:06:49

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.497 ms

Loss rate: 0.00%

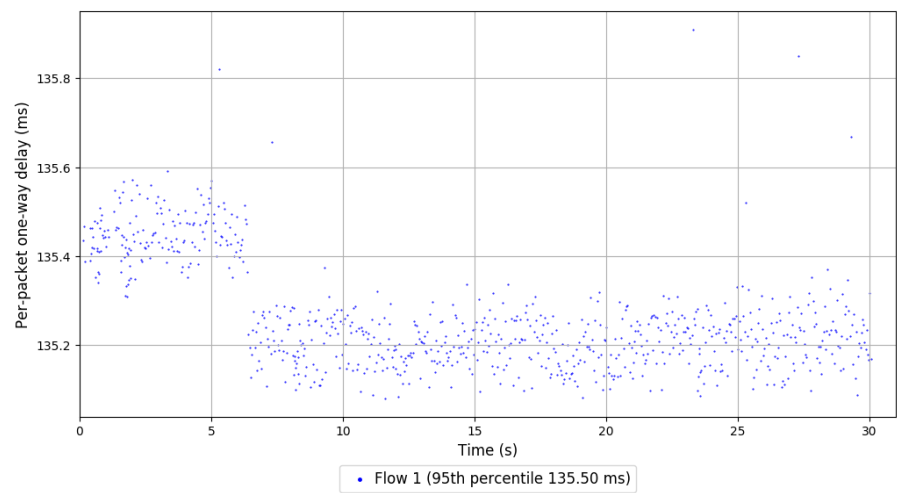
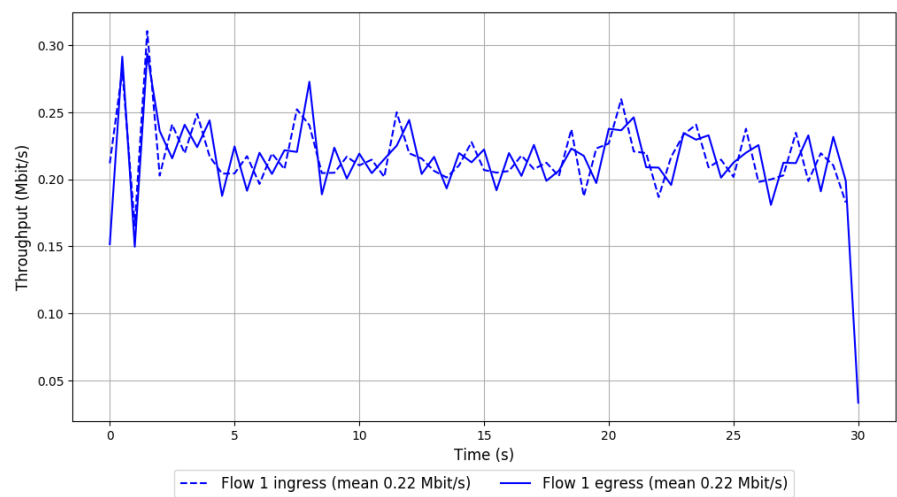
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.497 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-27 16:22:13

End at: 2018-03-27 16:22:43

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.934 ms

Loss rate: 0.00%

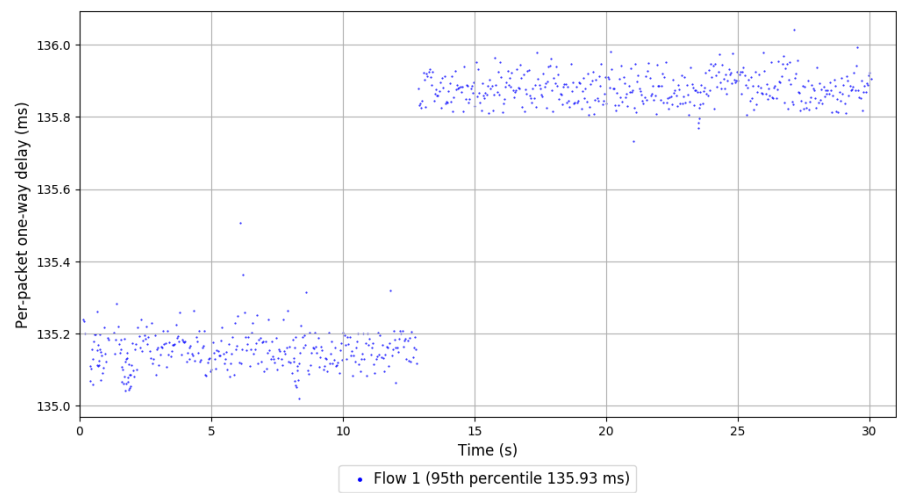
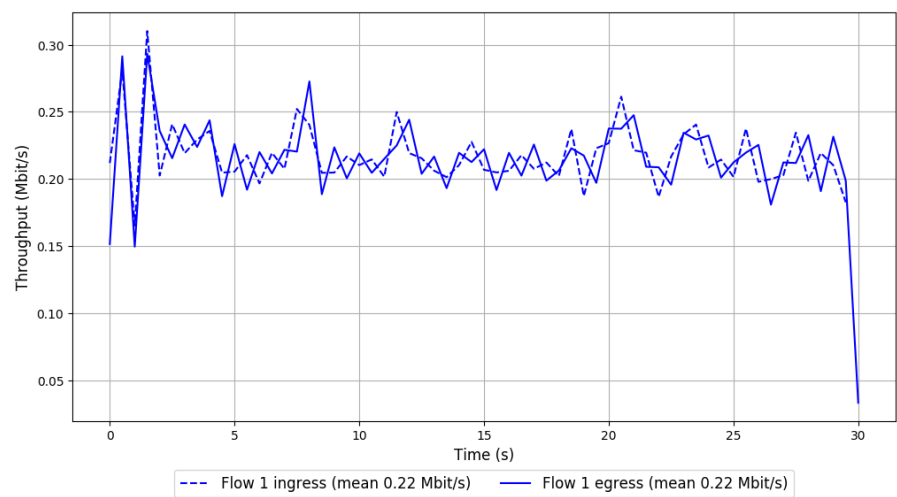
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.934 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-27 16:37:56

End at: 2018-03-27 16:38:26

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

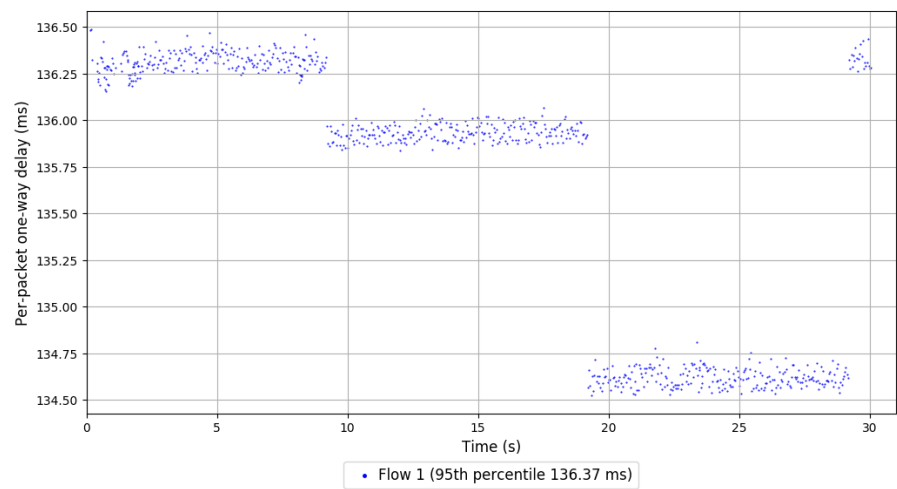
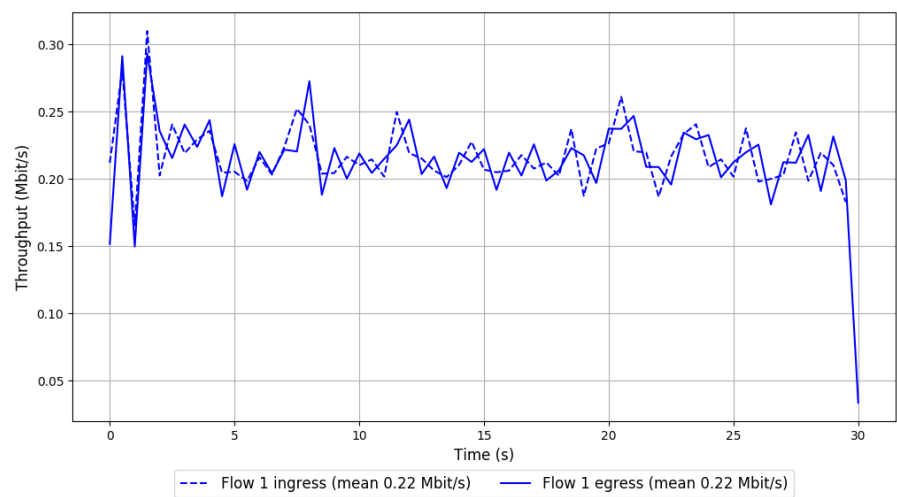
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-27 16:53:44

End at: 2018-03-27 16:54:14

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.724 ms

Loss rate: 0.00%

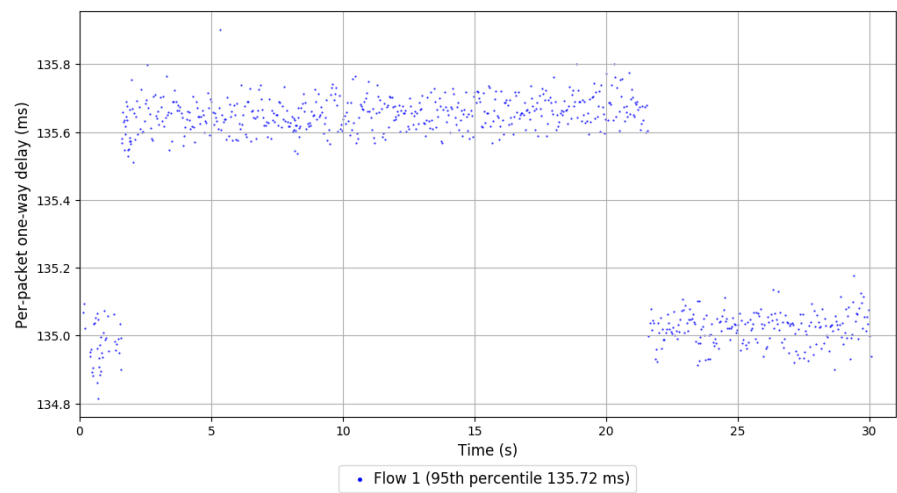
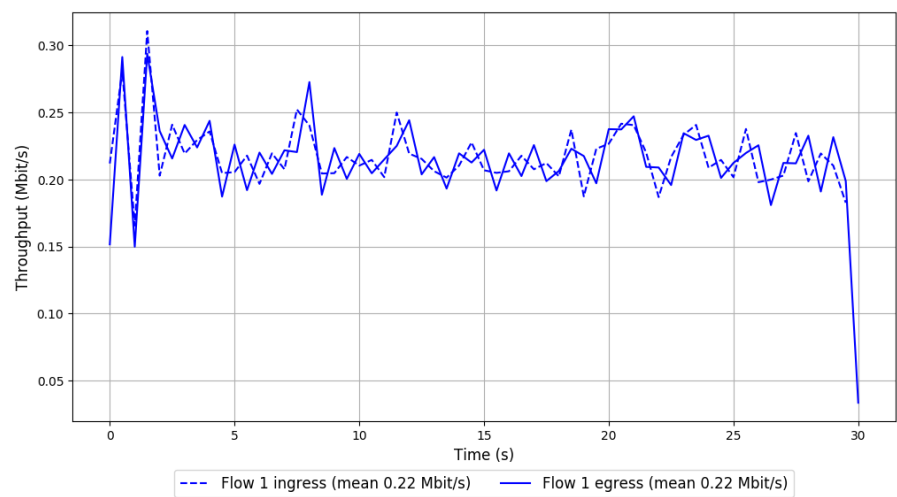
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.724 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-27 17:09:24

End at: 2018-03-27 17:09:54

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.446 ms

Loss rate: 0.00%

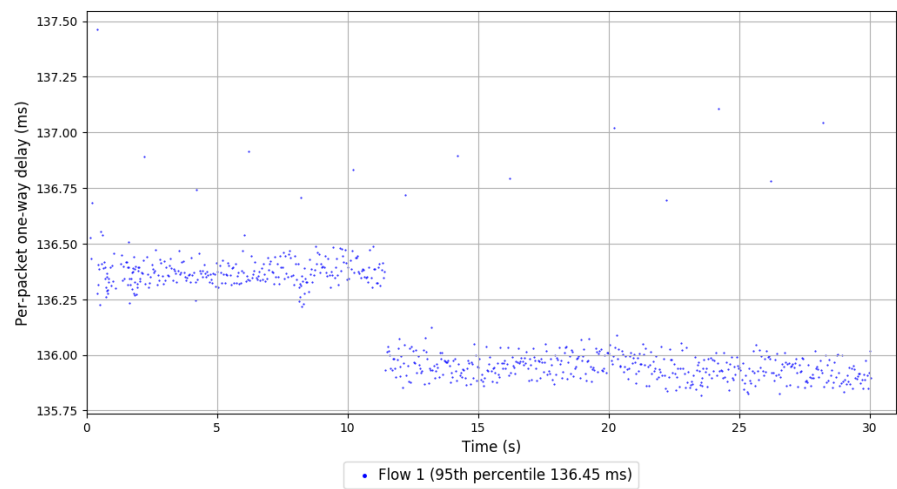
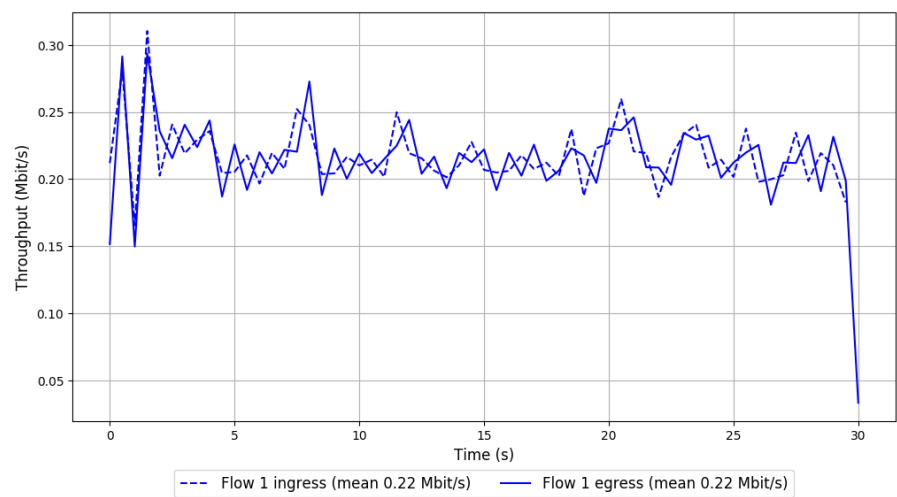
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.446 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

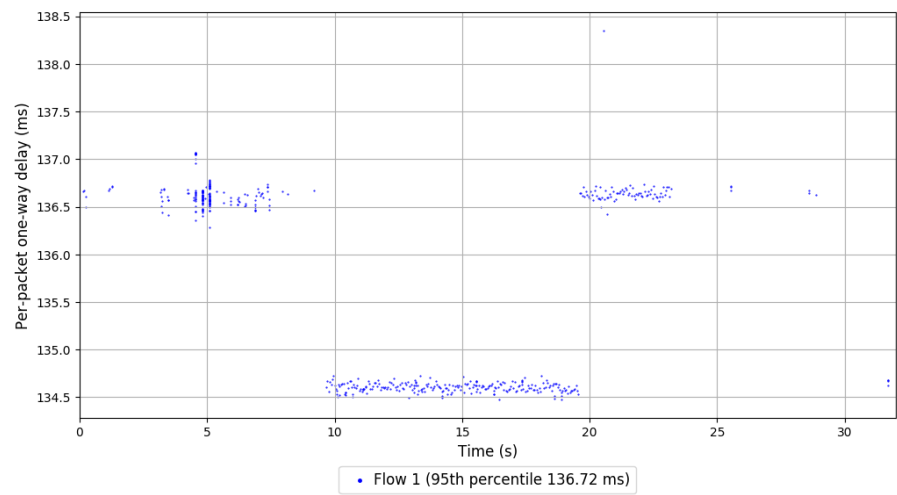
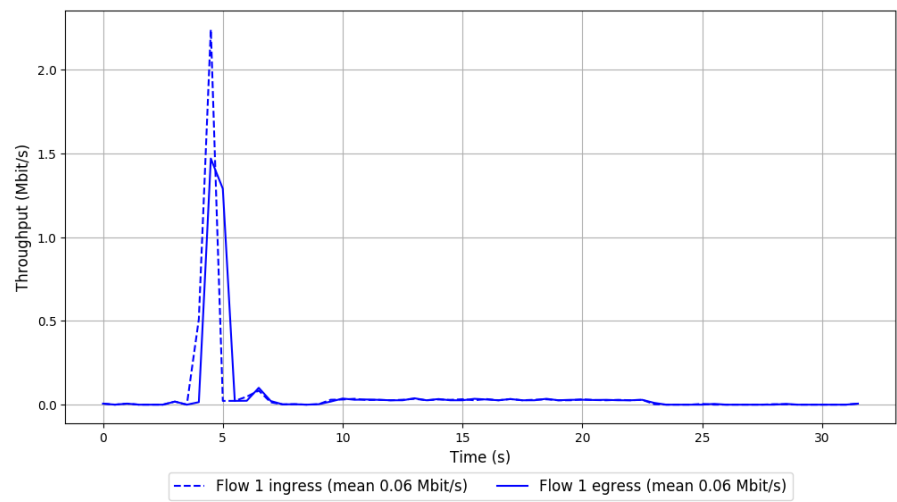


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-27 15:01:38
End at: 2018-03-27 15:02:08

# Below is generated by plot.py at 2018-03-27 19:22:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.715 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-27 15:17:18

End at: 2018-03-27 15:17:48

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.183 ms

Loss rate: 0.00%

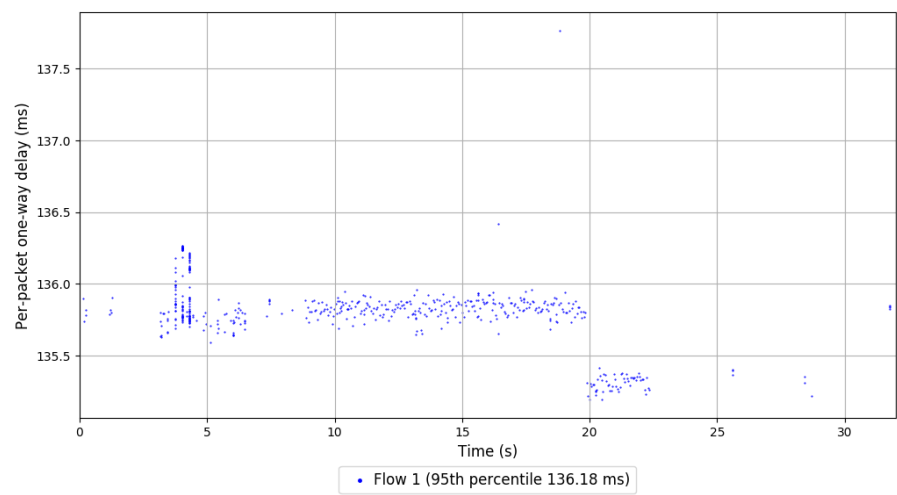
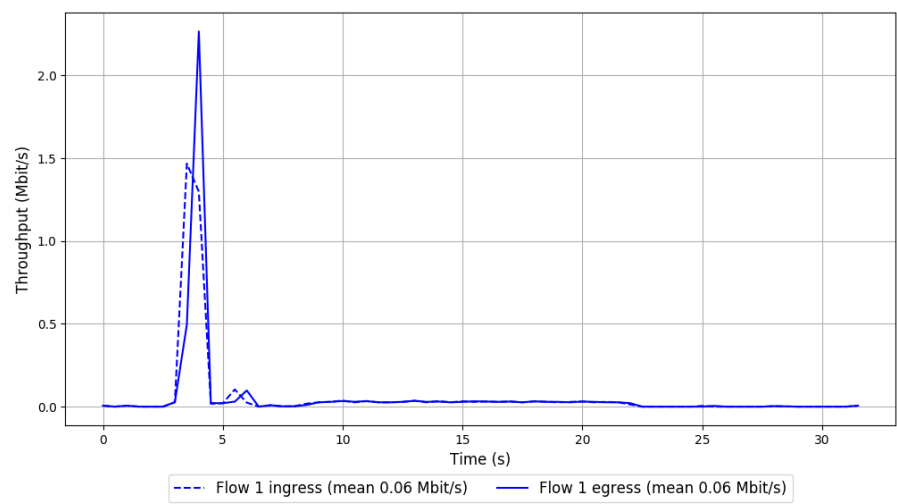
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.183 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-27 15:33:22

End at: 2018-03-27 15:33:52

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.044 ms

Loss rate: 0.00%

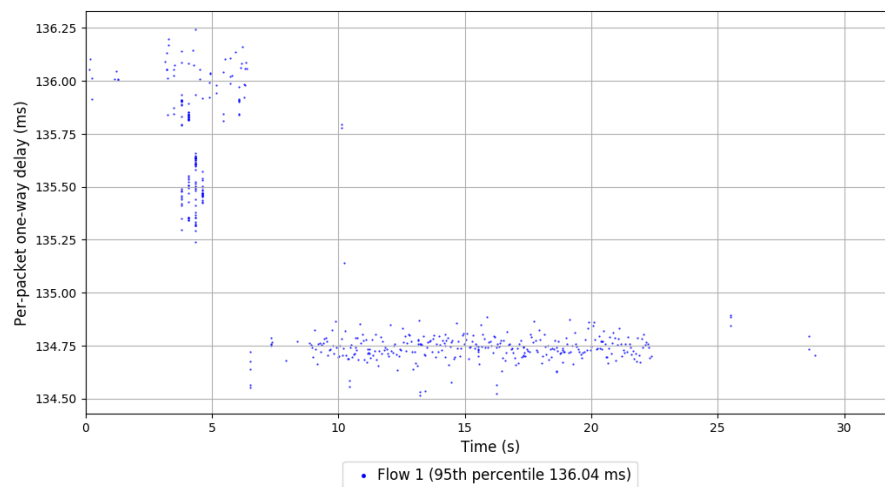
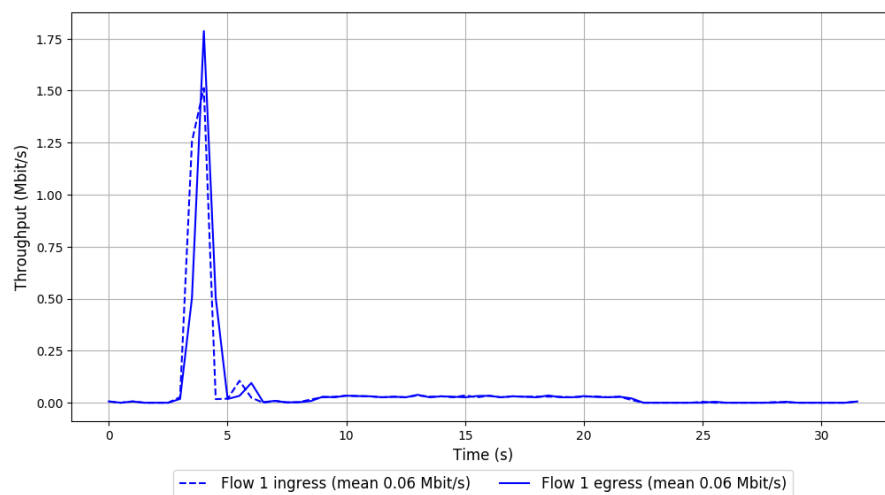
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.044 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-27 15:49:21

End at: 2018-03-27 15:49:51

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 135.886 ms

Loss rate: 0.00%

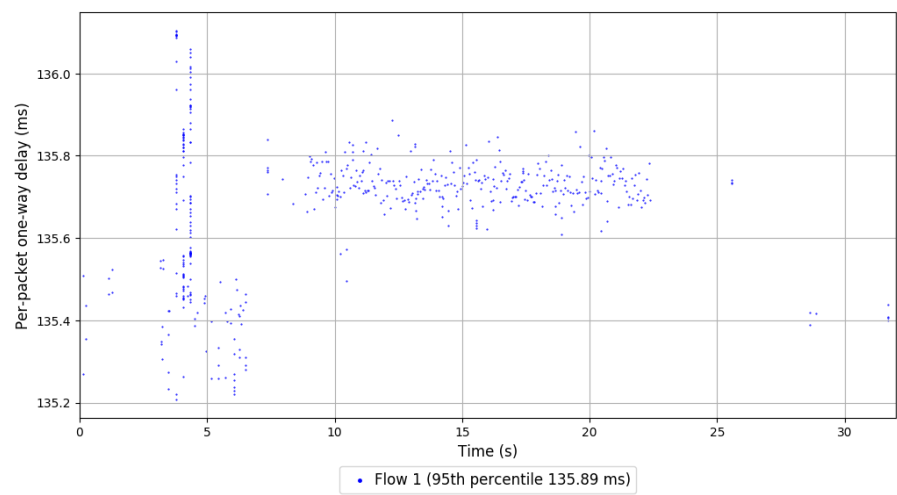
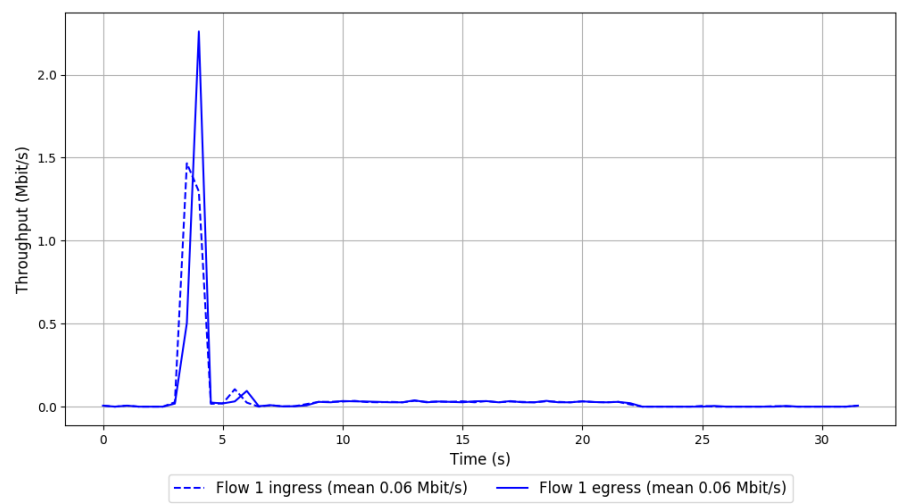
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 135.886 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-27 16:04:51

End at: 2018-03-27 16:05:21

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.533 ms

Loss rate: 0.00%

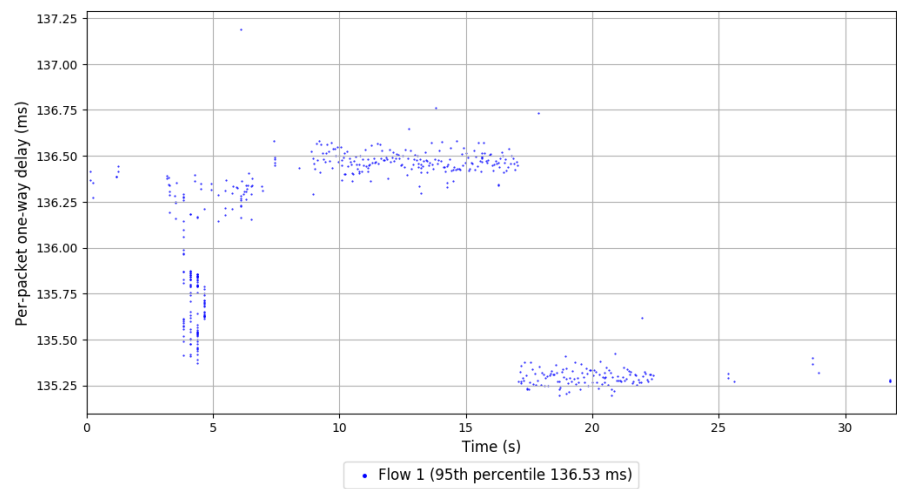
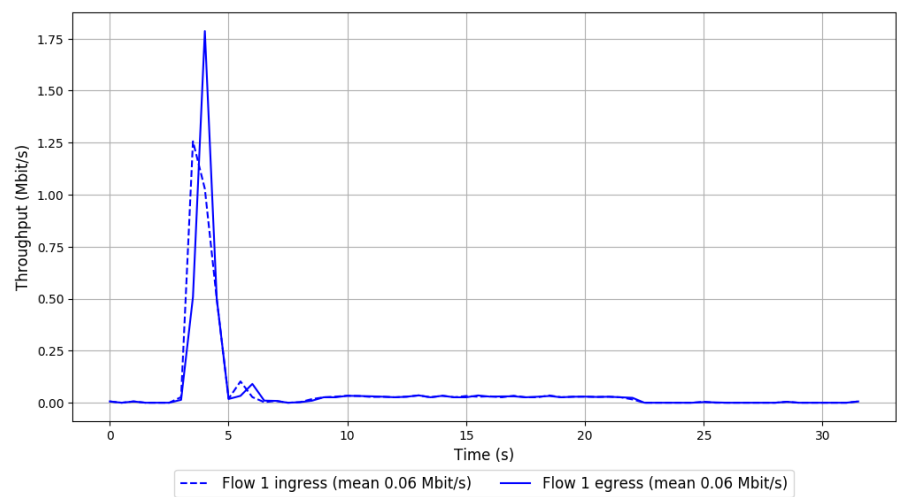
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.533 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-27 16:20:44

End at: 2018-03-27 16:21:14

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.783 ms

Loss rate: 0.00%

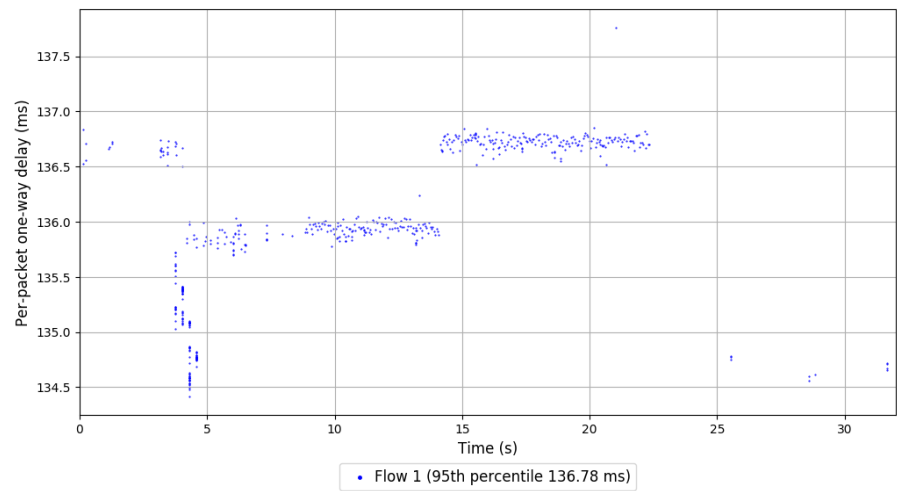
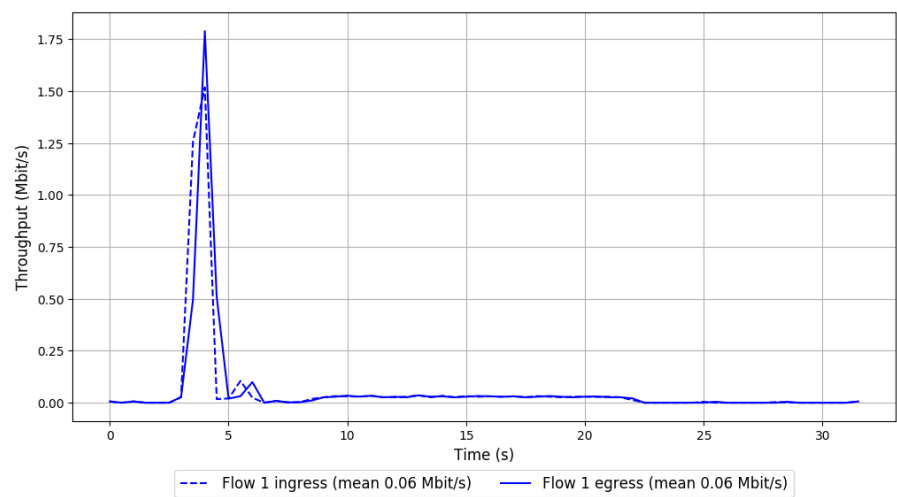
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.783 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-27 16:36:28

End at: 2018-03-27 16:36:58

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.774 ms

Loss rate: 0.00%

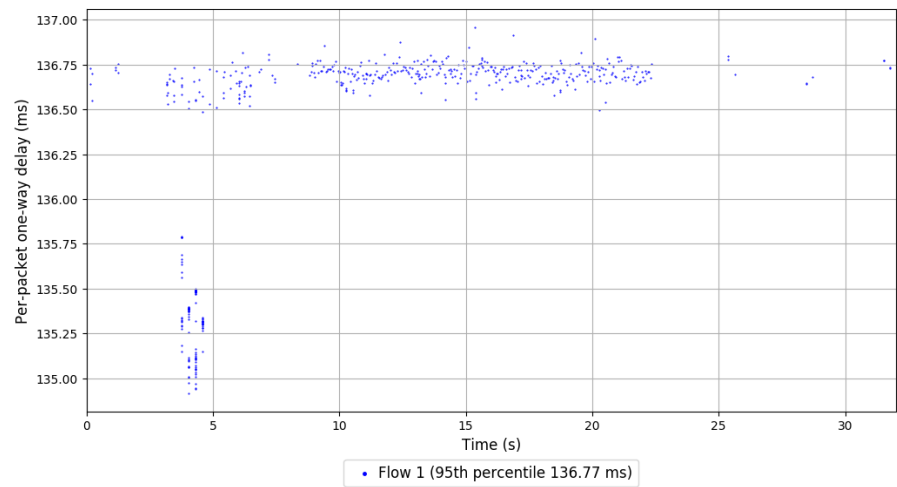
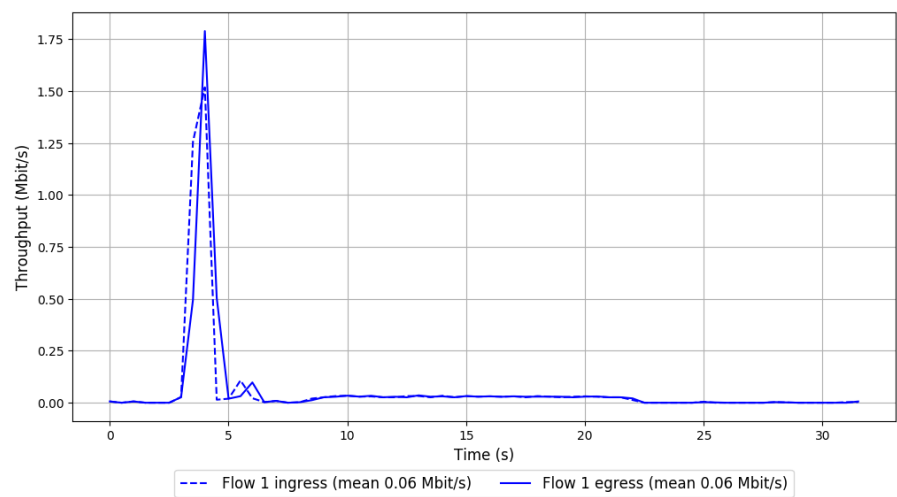
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.774 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-27 16:52:15

End at: 2018-03-27 16:52:45

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

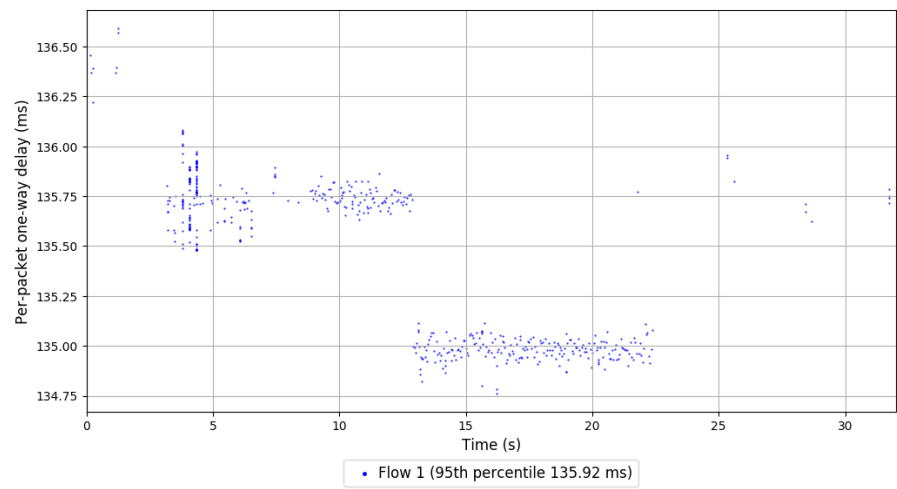
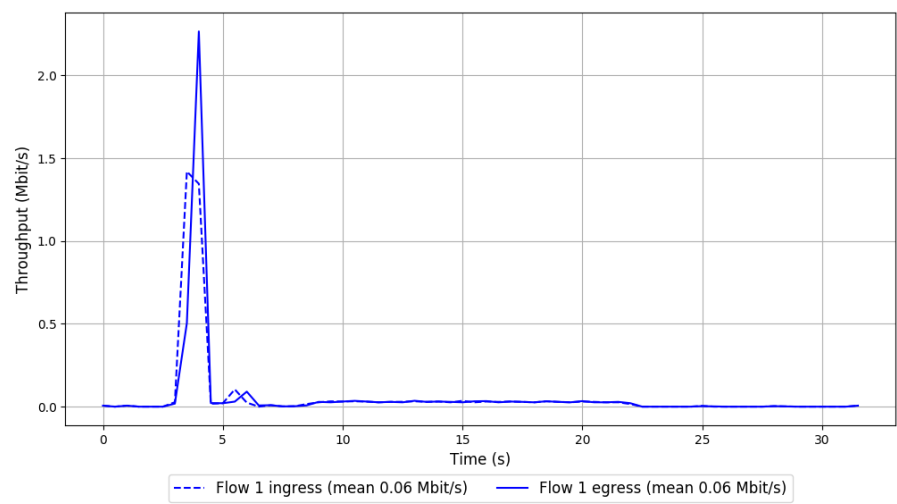
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-27 17:07:56

End at: 2018-03-27 17:08:26

Below is generated by plot.py at 2018-03-27 19:22:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.031 ms

Loss rate: 0.00%

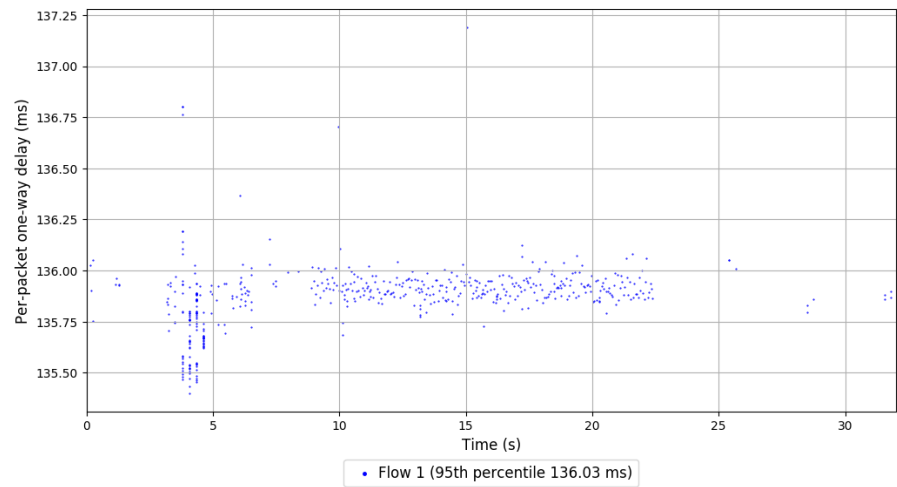
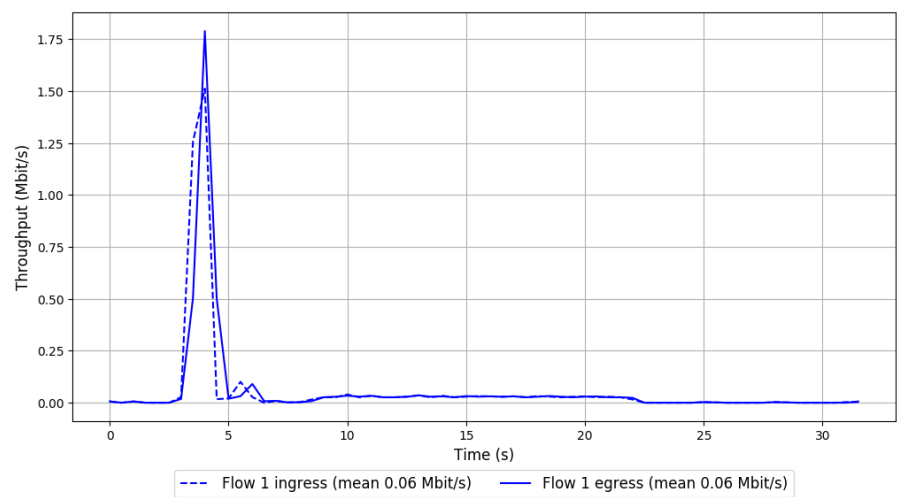
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.031 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-27 17:23:43

End at: 2018-03-27 17:24:13

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 135.830 ms

Loss rate: 0.00%

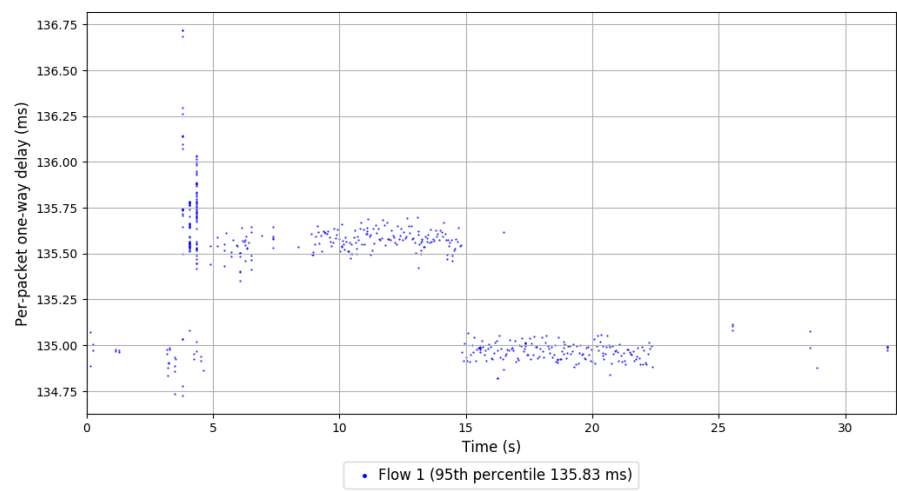
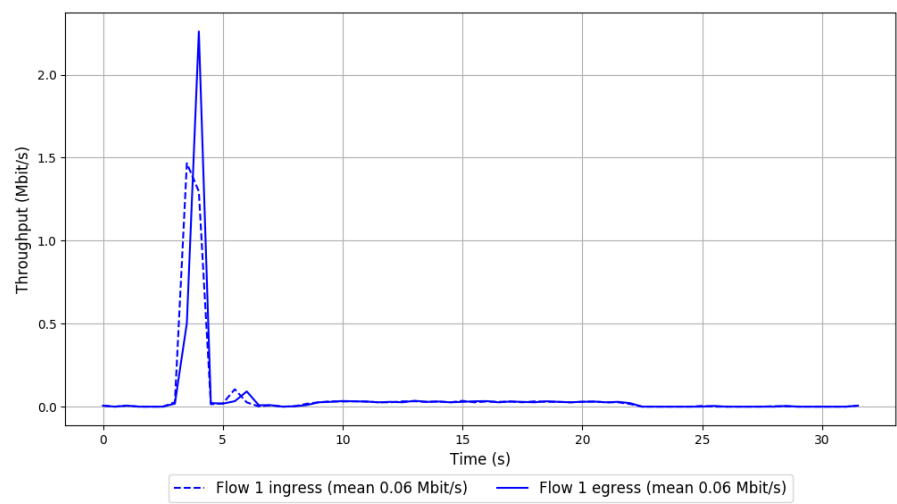
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 135.830 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-27 14:58:21

End at: 2018-03-27 14:58:51

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 0.00%

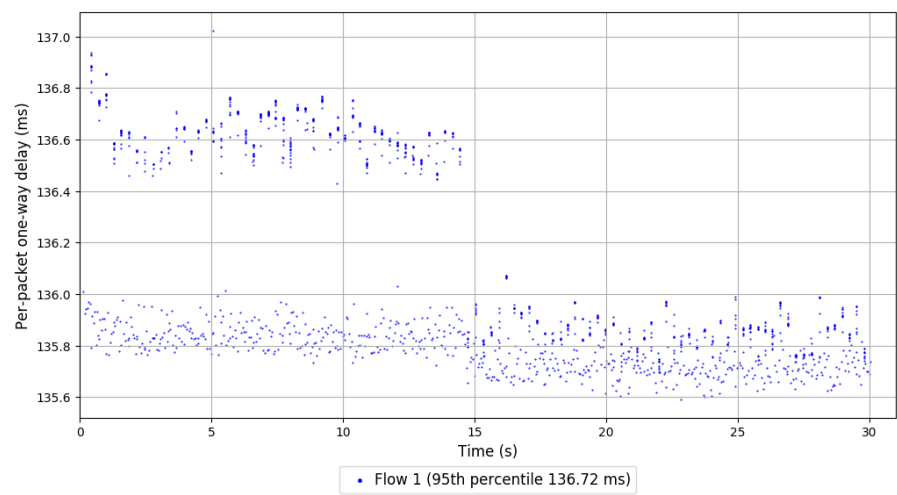
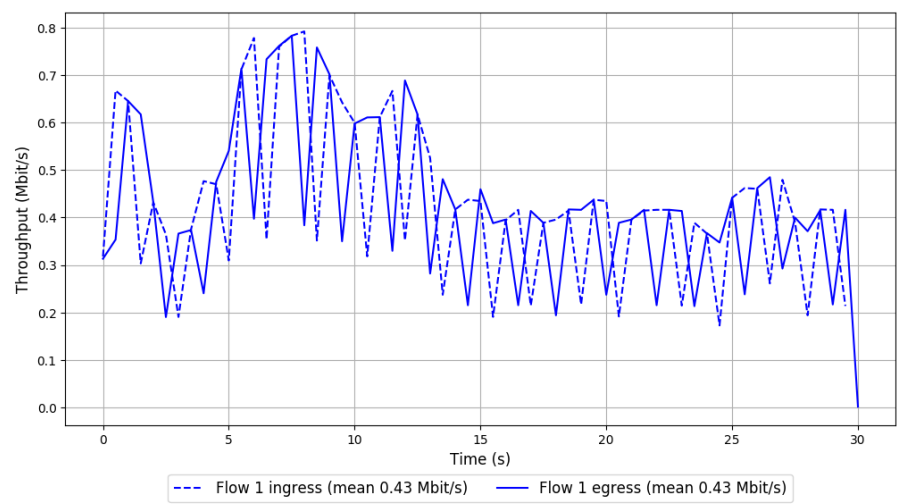
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.721 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-27 15:14:07

End at: 2018-03-27 15:14:37

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.938 ms

Loss rate: 0.00%

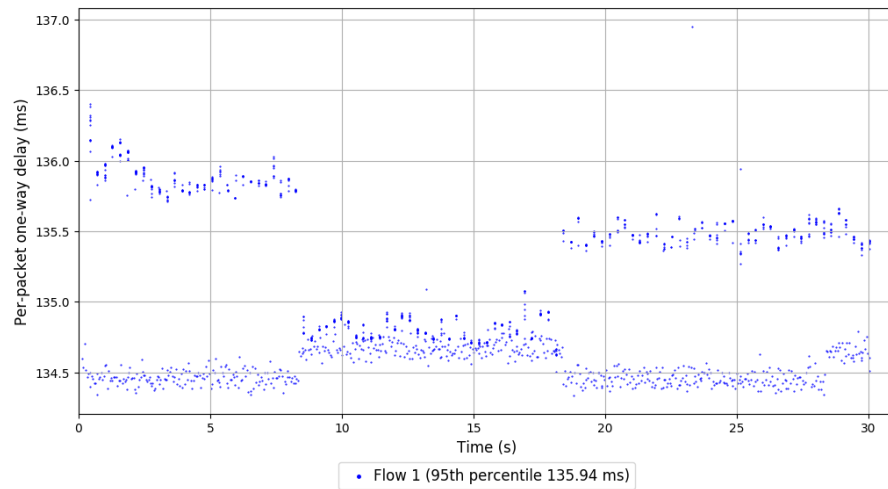
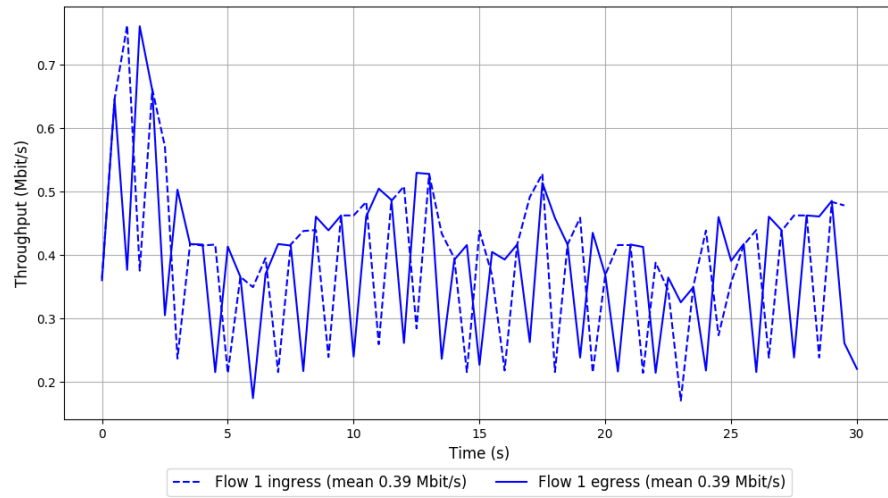
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 135.938 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-27 15:29:55

End at: 2018-03-27 15:30:25

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 135.854 ms

Loss rate: 0.00%

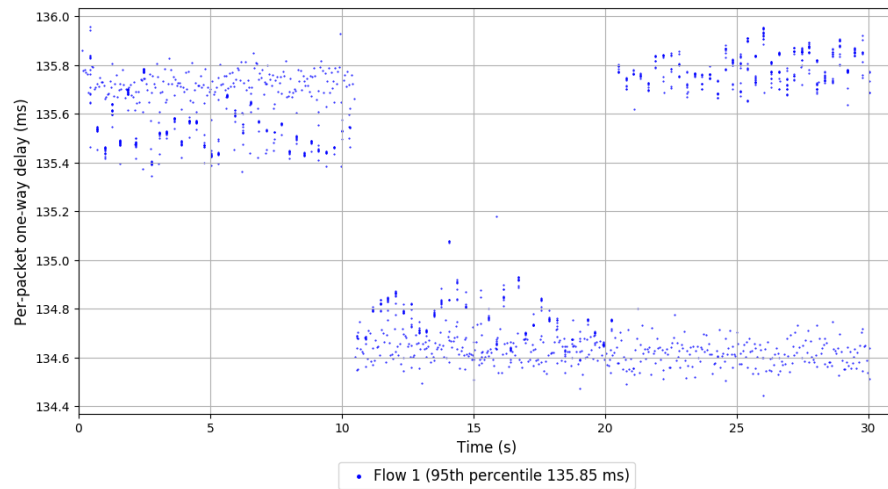
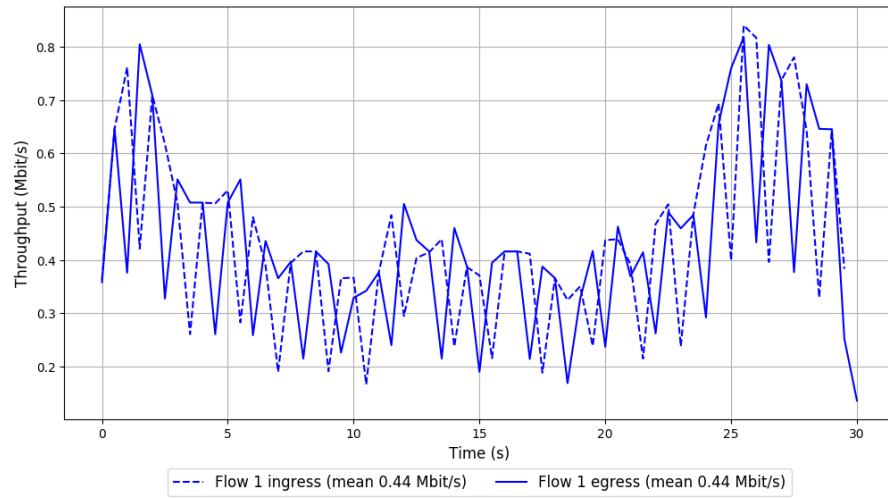
-- Flow 1:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 135.854 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-27 15:45:56

End at: 2018-03-27 15:46:26

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 136.648 ms

Loss rate: 0.00%

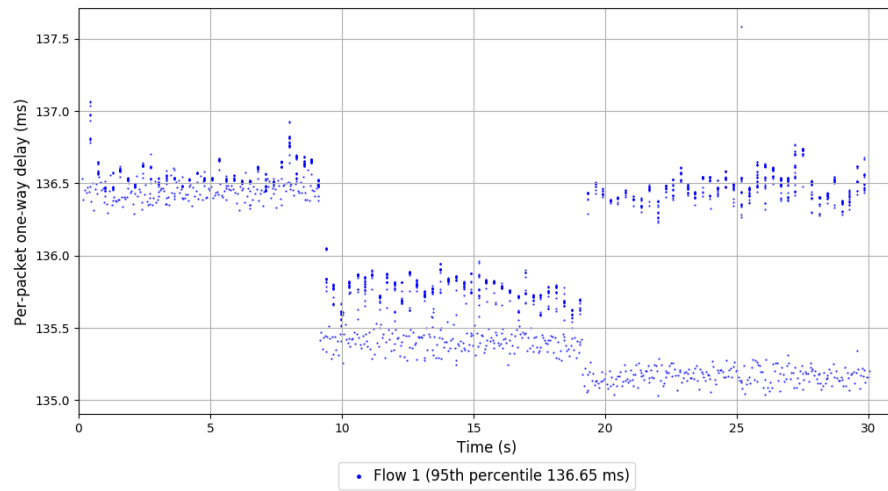
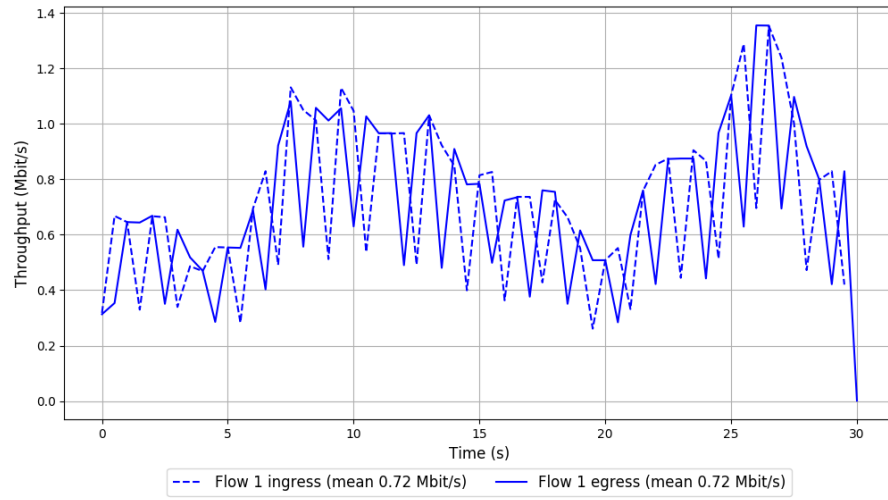
-- Flow 1:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 136.648 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-27 16:01:41

End at: 2018-03-27 16:02:11

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.566 ms

Loss rate: 0.00%

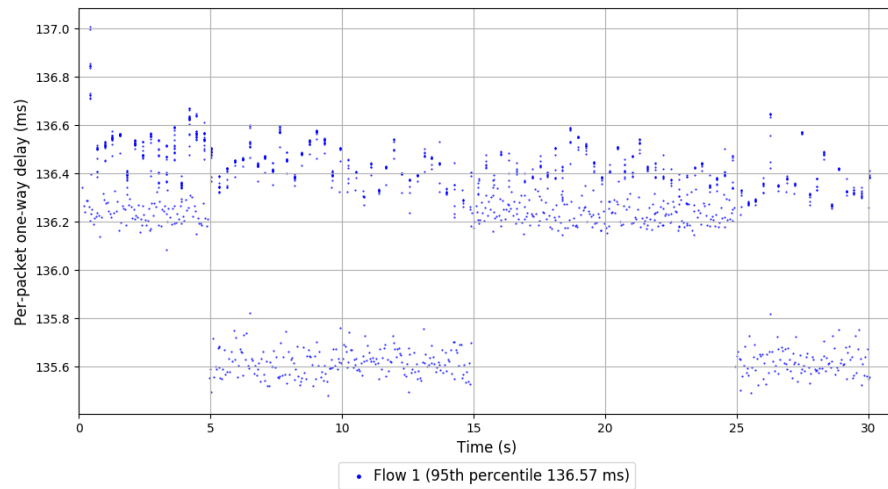
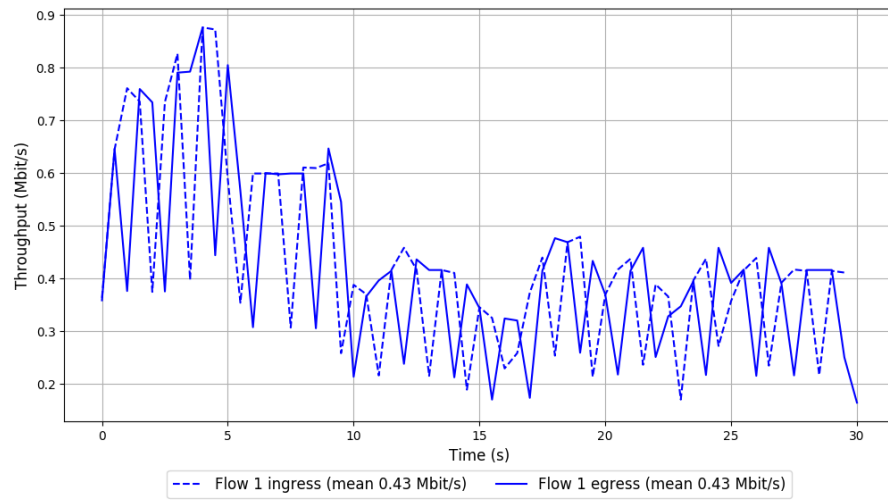
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.566 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-27 16:17:27

End at: 2018-03-27 16:17:57

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.294 ms

Loss rate: 0.00%

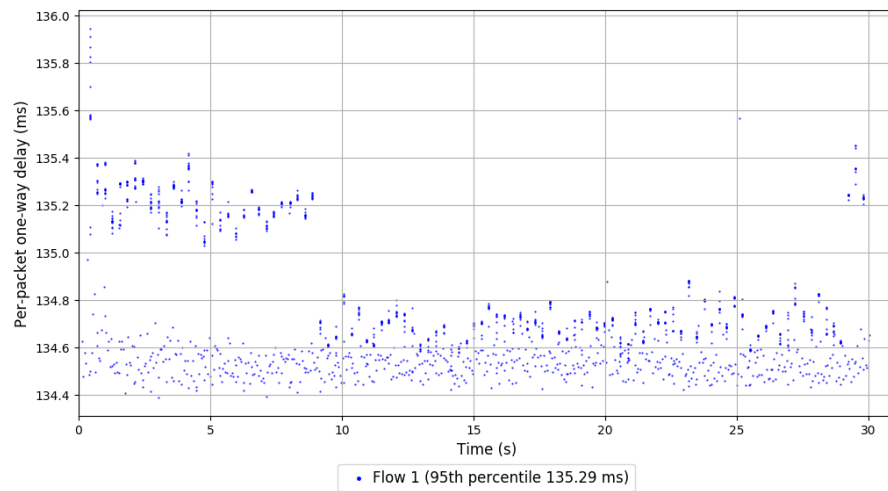
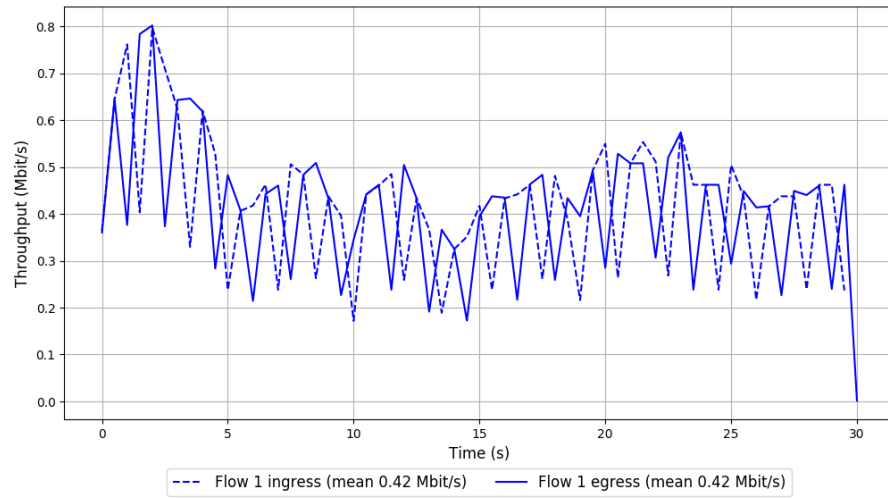
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 135.294 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-27 16:33:03

End at: 2018-03-27 16:33:33

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.856 ms

Loss rate: 0.00%

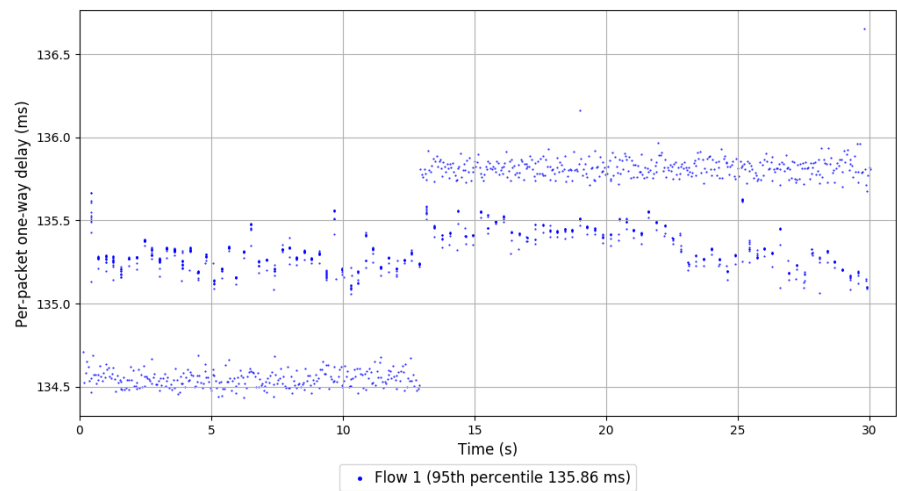
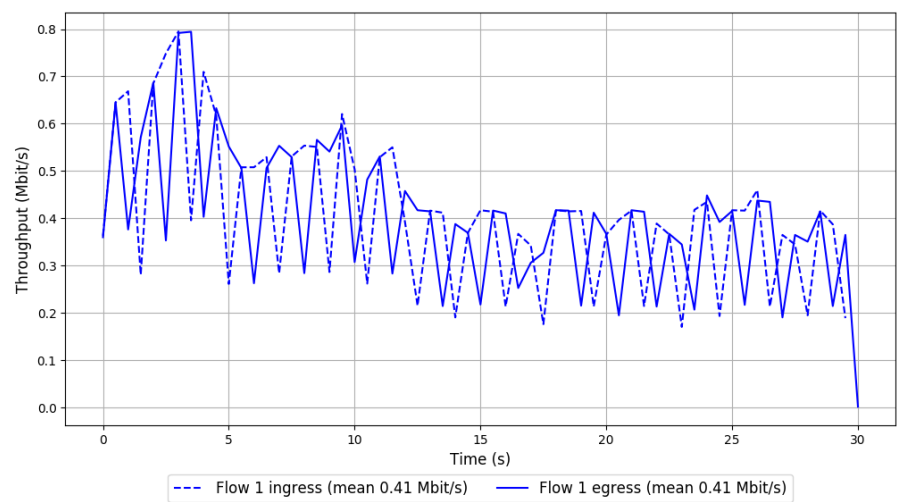
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 135.856 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-27 16:48:54

End at: 2018-03-27 16:49:24

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.498 ms

Loss rate: 0.00%

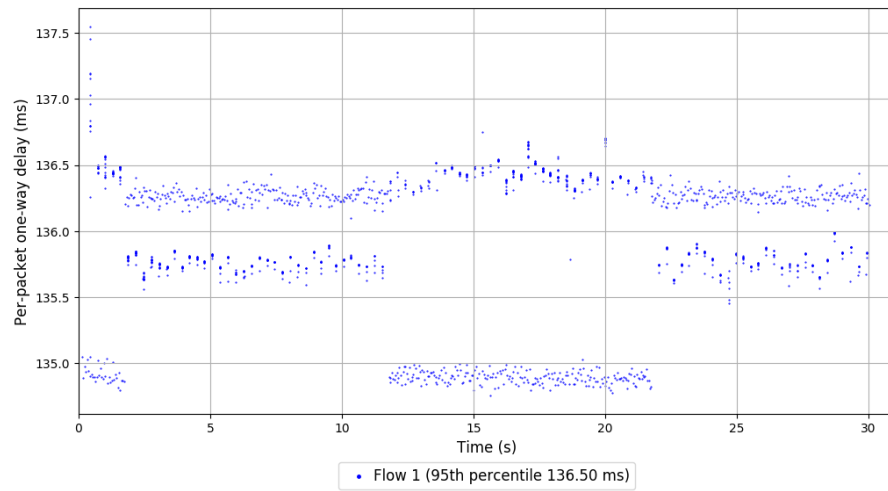
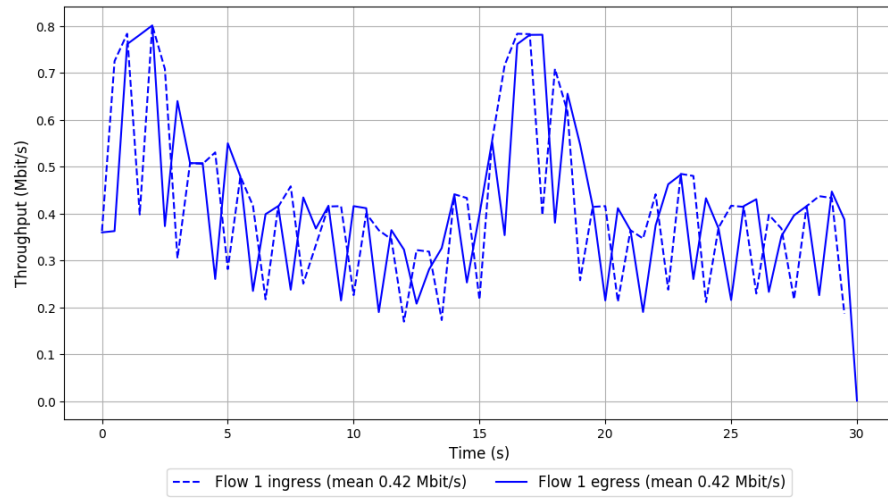
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.498 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-27 17:04:42

End at: 2018-03-27 17:05:12

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.398 ms

Loss rate: 0.00%

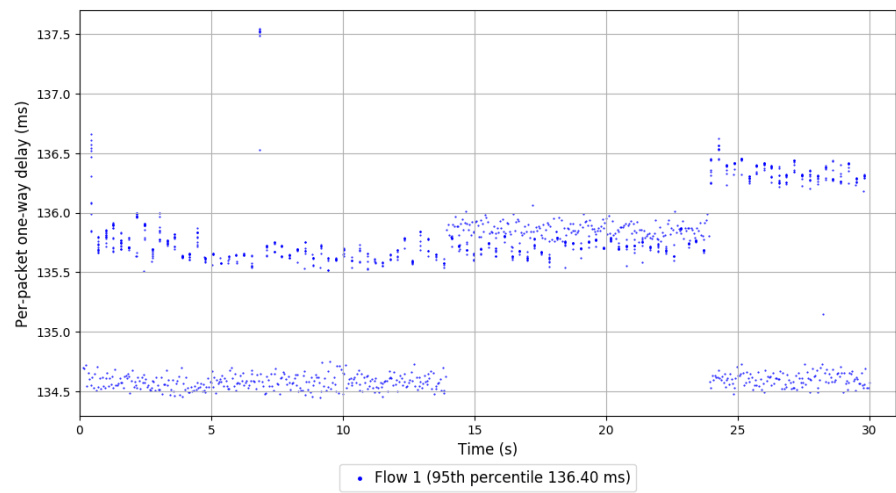
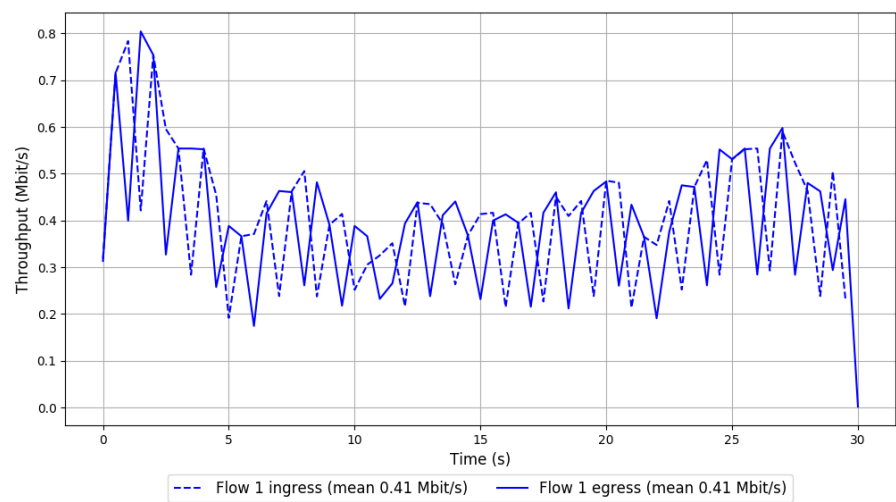
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.398 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-27 17:20:25

End at: 2018-03-27 17:20:56

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 0.00%

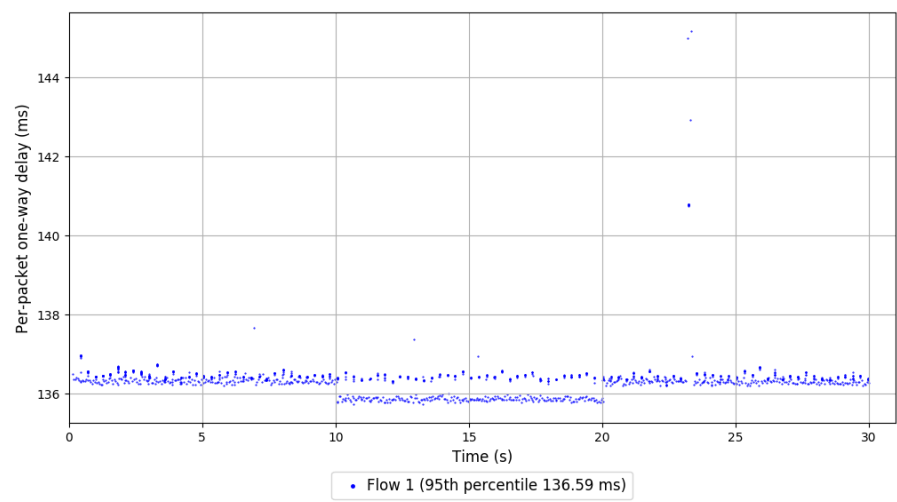
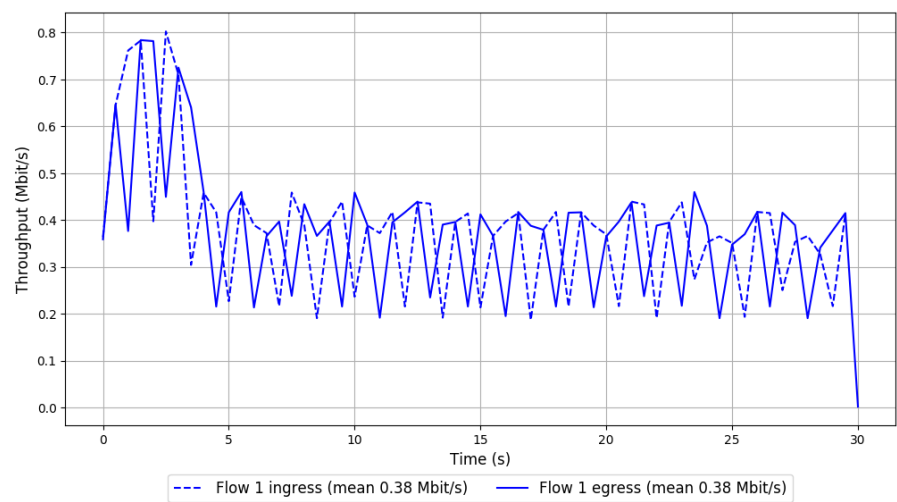
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.588 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

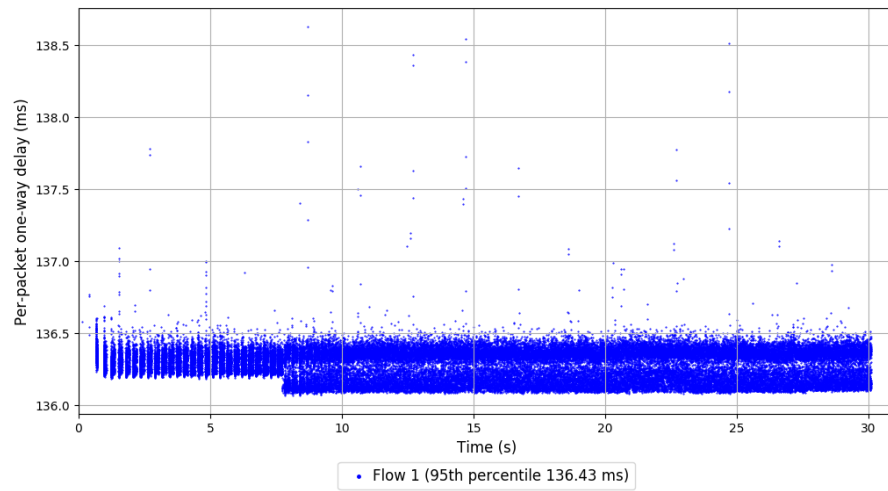
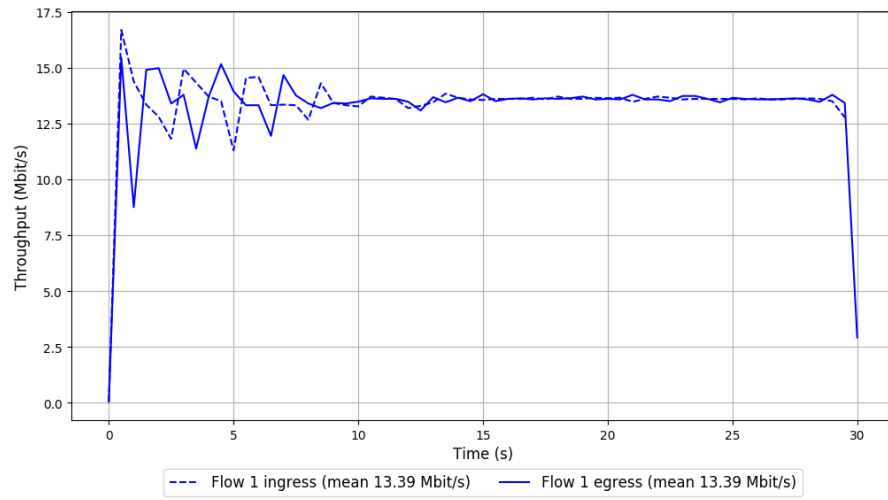


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-27 14:55:58
End at: 2018-03-27 14:56:28

# Below is generated by plot.py at 2018-03-27 19:22:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 136.427 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 136.427 ms
Loss rate: 0.00%
```

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

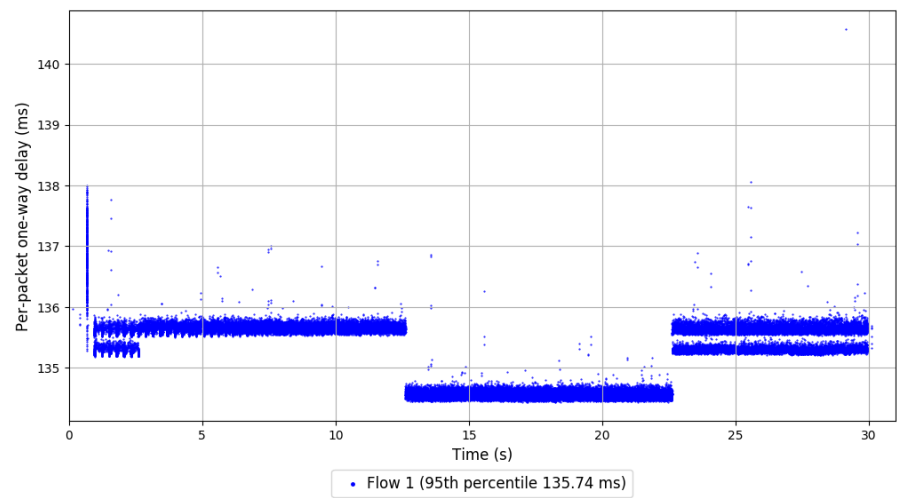
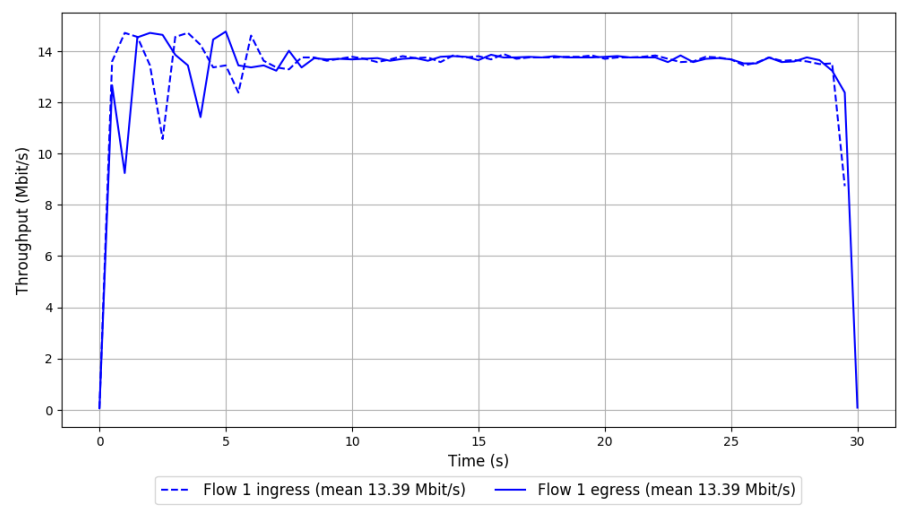


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-27 15:11:43
End at: 2018-03-27 15:12:13

# Below is generated by plot.py at 2018-03-27 19:22:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 135.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.39 Mbit/s
95th percentile per-packet one-way delay: 135.737 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-27 15:27:13

End at: 2018-03-27 15:27:43

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.20 Mbit/s

95th percentile per-packet one-way delay: 135.748 ms

Loss rate: 0.00%

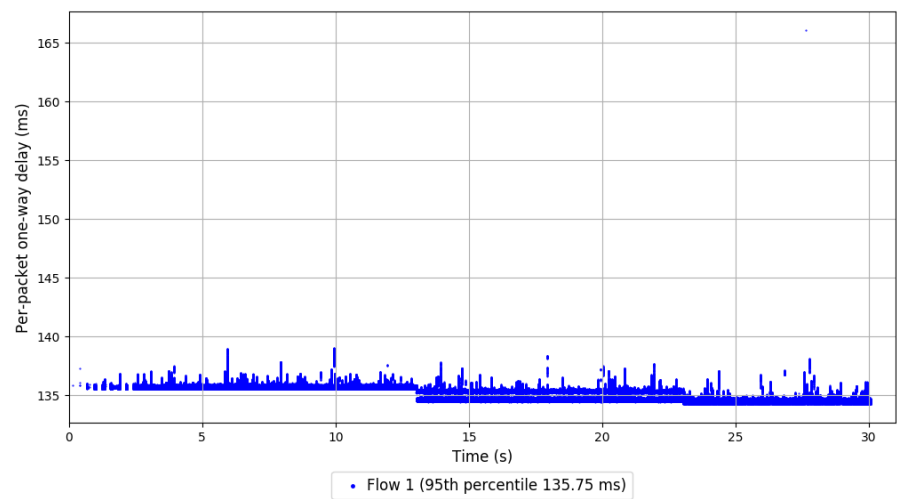
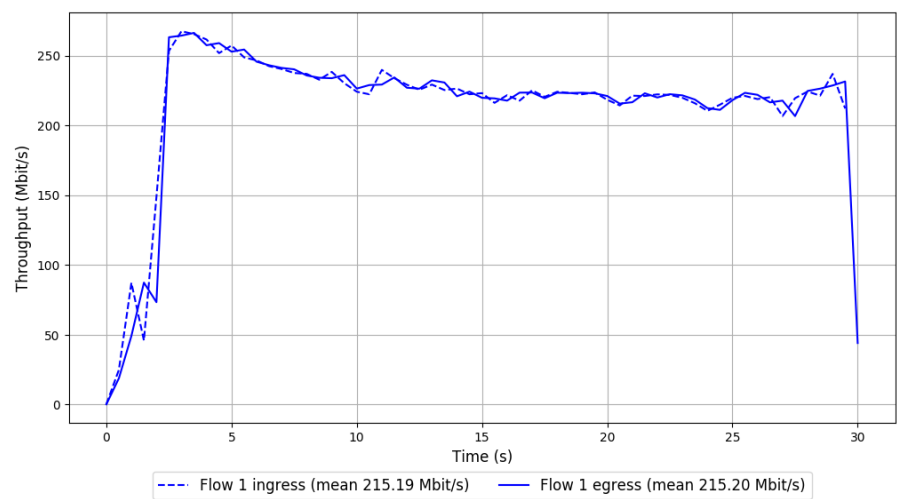
-- Flow 1:

Average throughput: 215.20 Mbit/s

95th percentile per-packet one-way delay: 135.748 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-27 15:43:12

End at: 2018-03-27 15:43:43

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.73 Mbit/s

95th percentile per-packet one-way delay: 136.430 ms

Loss rate: 0.00%

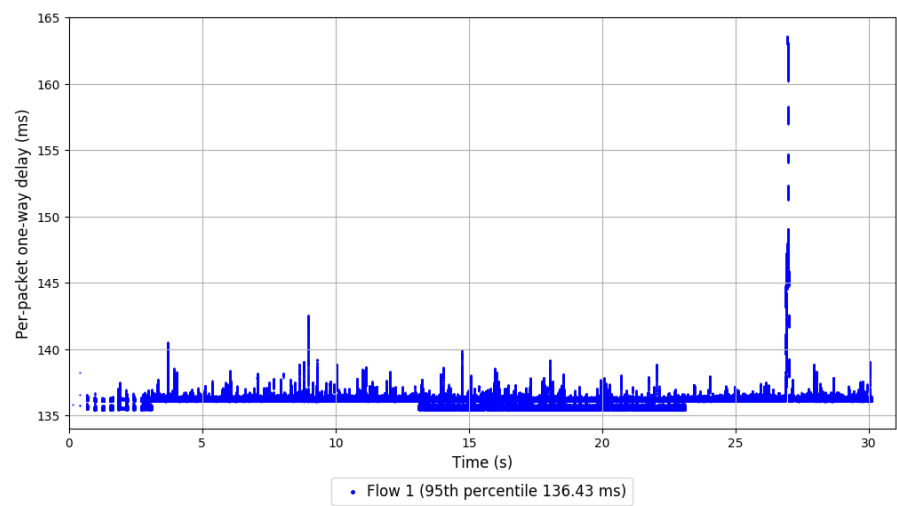
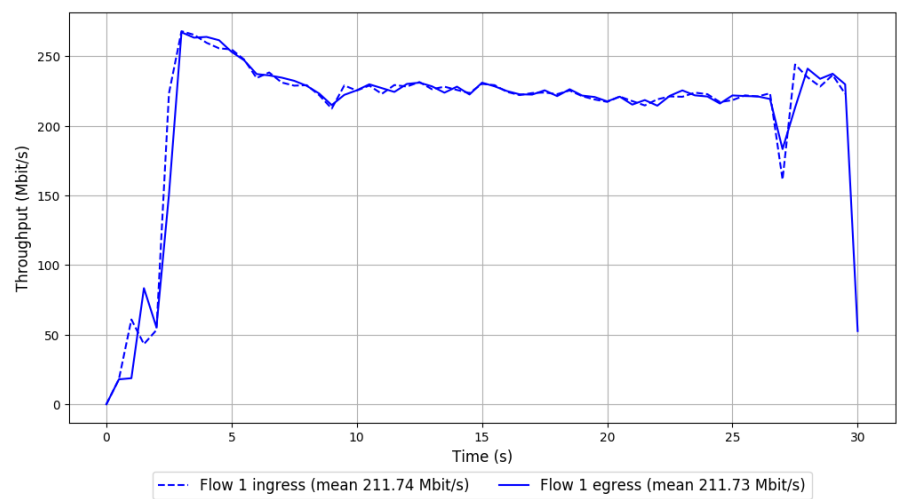
-- Flow 1:

Average throughput: 211.73 Mbit/s

95th percentile per-packet one-way delay: 136.430 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-27 15:59:18

End at: 2018-03-27 15:59:48

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 136.248 ms

Loss rate: 0.00%

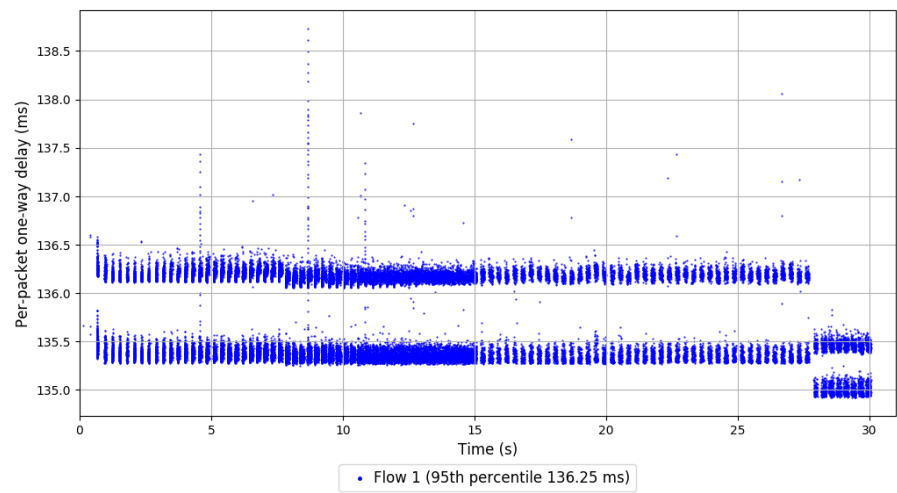
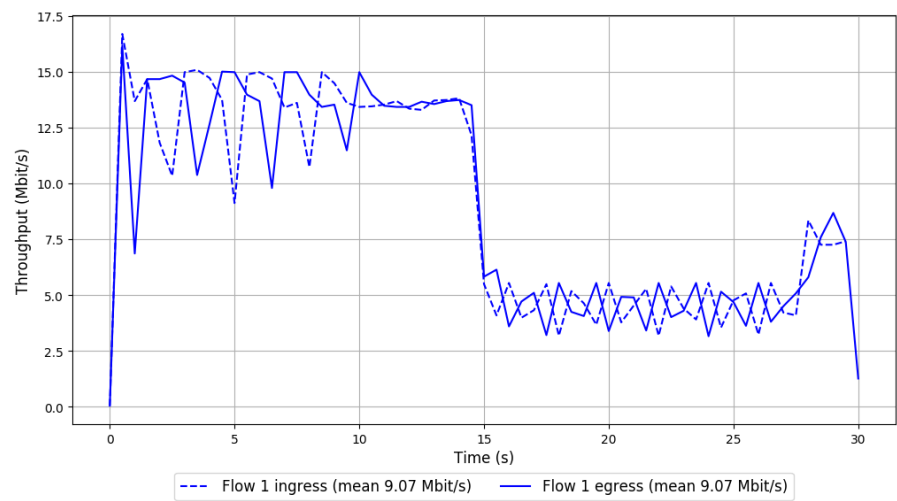
-- Flow 1:

Average throughput: 9.07 Mbit/s

95th percentile per-packet one-way delay: 136.248 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-27 16:14:43

End at: 2018-03-27 16:15:13

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.47 Mbit/s

95th percentile per-packet one-way delay: 135.803 ms

Loss rate: 0.00%

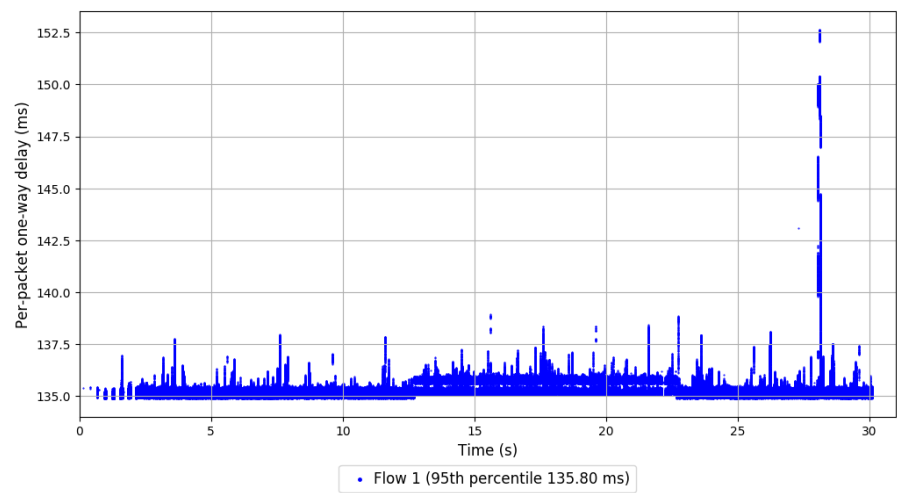
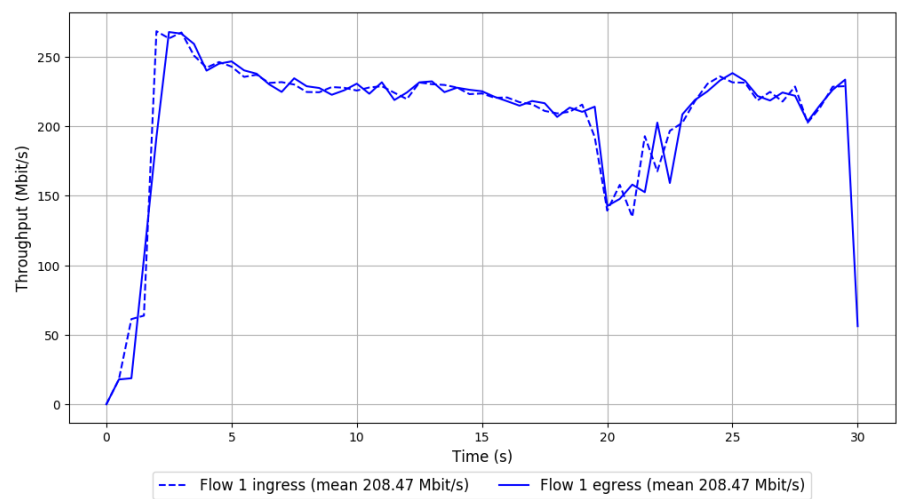
-- Flow 1:

Average throughput: 208.47 Mbit/s

95th percentile per-packet one-way delay: 135.803 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-27 16:30:39

End at: 2018-03-27 16:31:09

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.762 ms

Loss rate: 0.00%

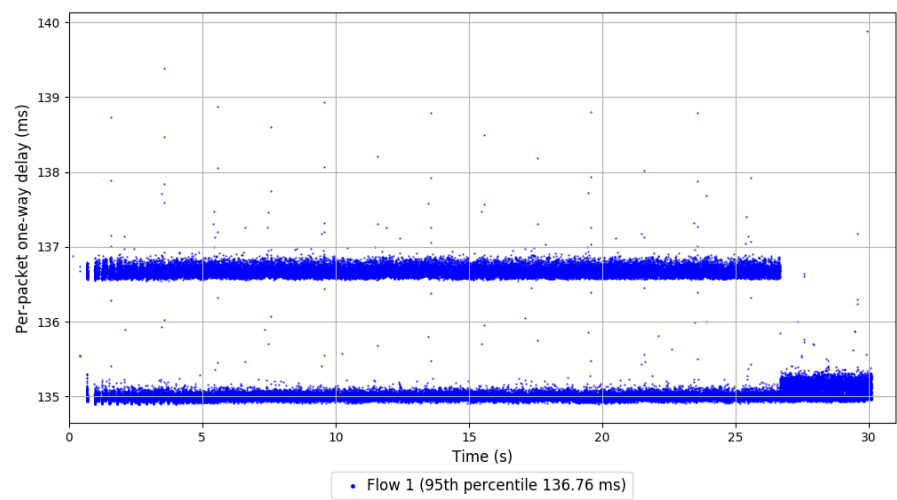
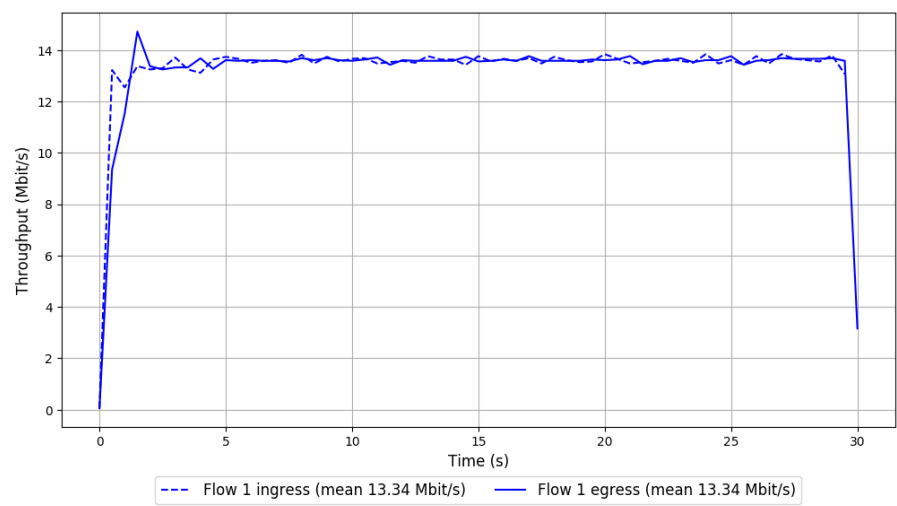
-- Flow 1:

Average throughput: 13.34 Mbit/s

95th percentile per-packet one-way delay: 136.762 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-27 16:46:31

End at: 2018-03-27 16:47:01

Below is generated by plot.py at 2018-03-27 19:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 136.220 ms

Loss rate: 0.00%

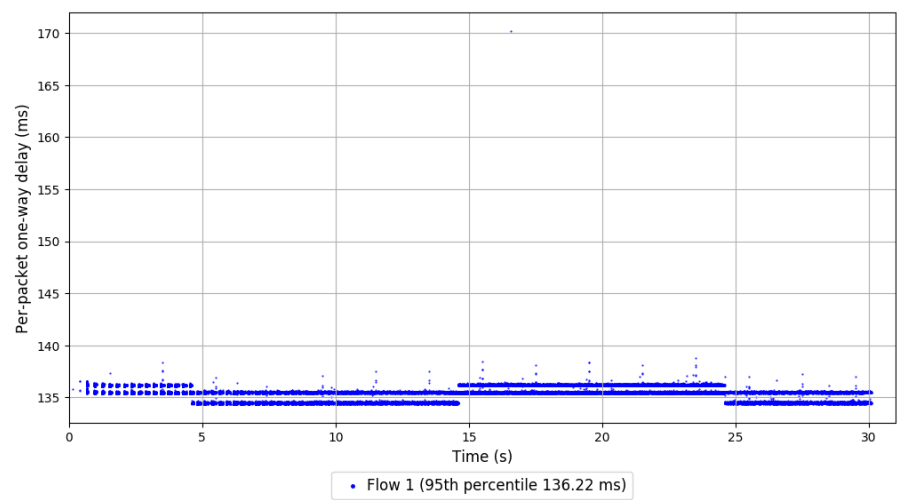
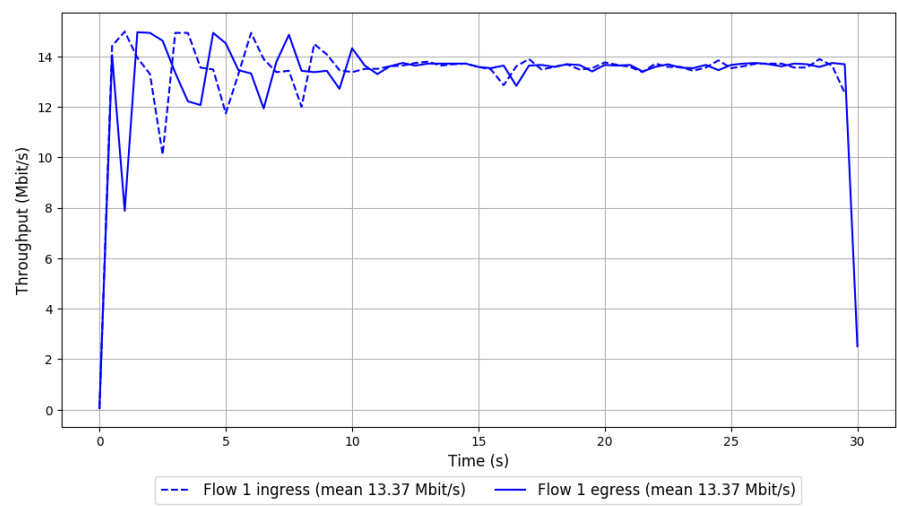
-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 136.220 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-27 17:01:57

End at: 2018-03-27 17:02:27

Below is generated by plot.py at 2018-03-27 19:22:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.61 Mbit/s

95th percentile per-packet one-way delay: 136.309 ms

Loss rate: 0.00%

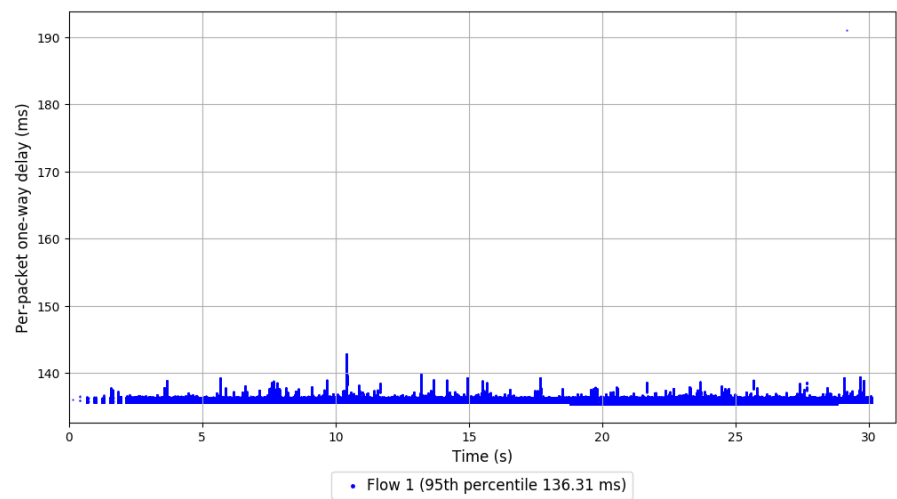
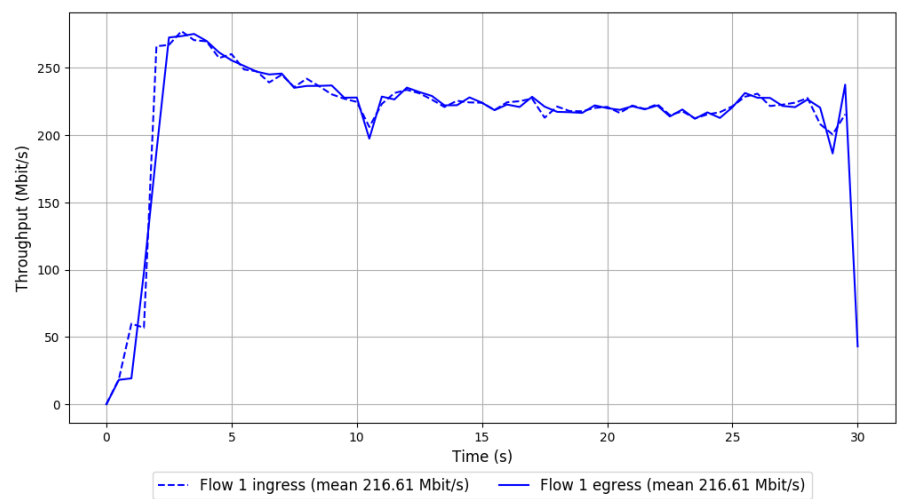
-- Flow 1:

Average throughput: 216.61 Mbit/s

95th percentile per-packet one-way delay: 136.309 ms

Loss rate: 0.00%

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

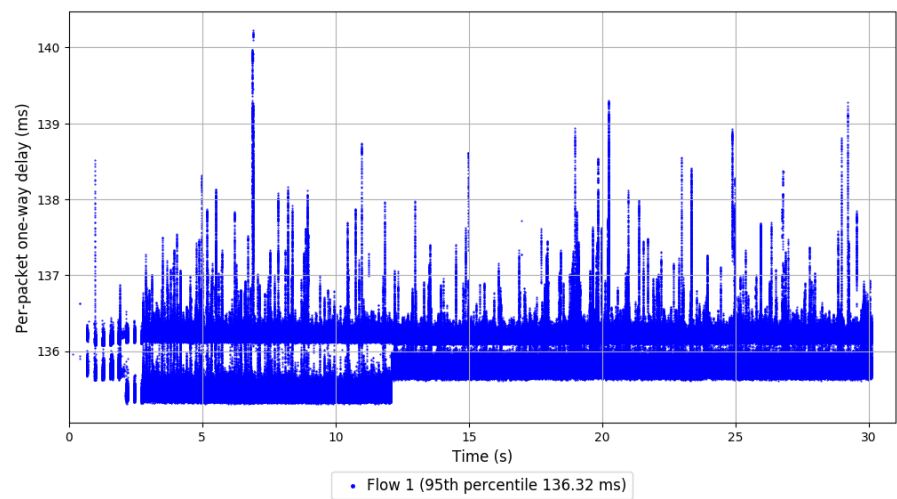
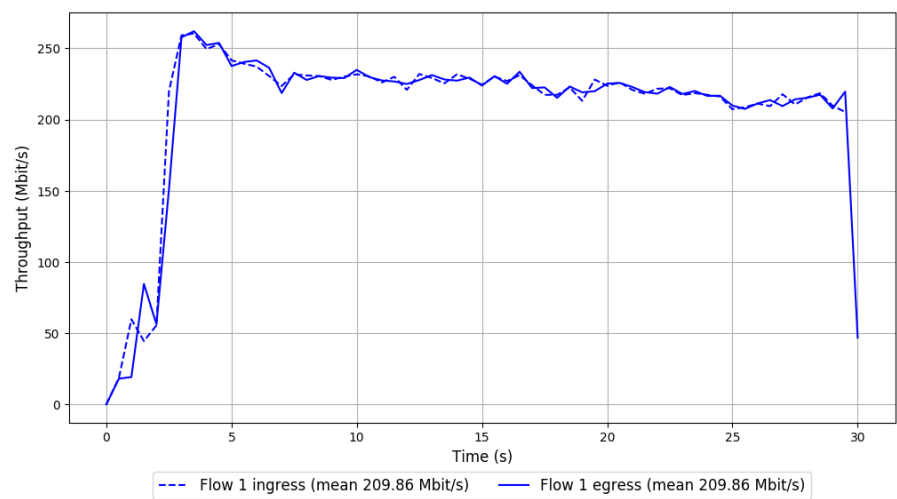


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-27 17:17:44
End at: 2018-03-27 17:18:14

# Below is generated by plot.py at 2018-03-27 19:22:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.86 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 209.86 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-27 14:52:51

End at: 2018-03-27 14:53:22

Below is generated by plot.py at 2018-03-27 19:22:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 138.283 ms

Loss rate: 0.00%

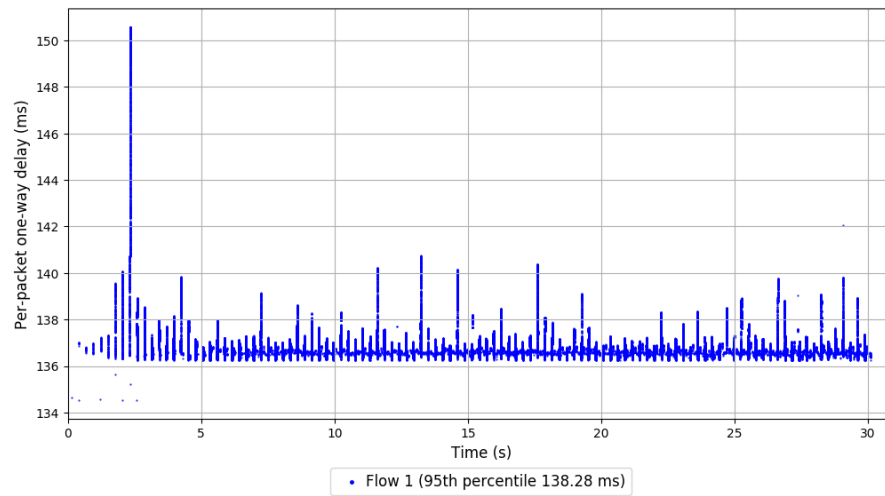
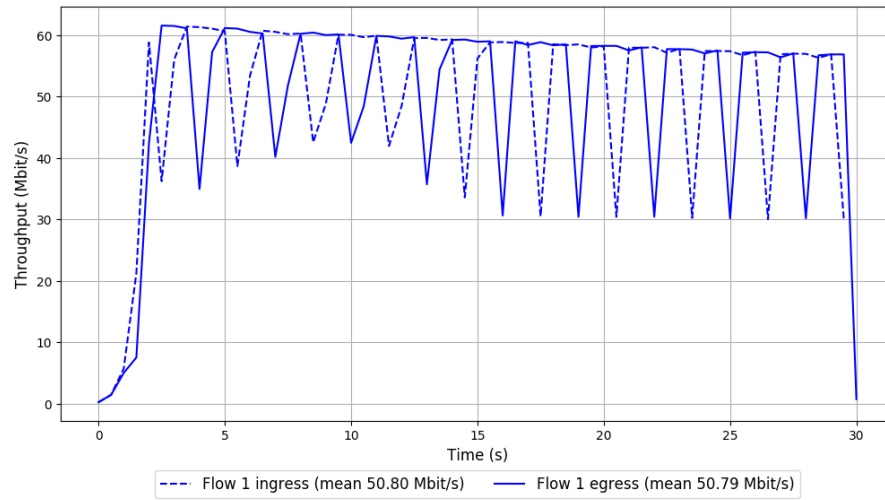
-- Flow 1:

Average throughput: 50.79 Mbit/s

95th percentile per-packet one-way delay: 138.283 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-27 15:08:32

End at: 2018-03-27 15:09:02

Below is generated by plot.py at 2018-03-27 19:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.09 Mbit/s

95th percentile per-packet one-way delay: 144.803 ms

Loss rate: 0.10%

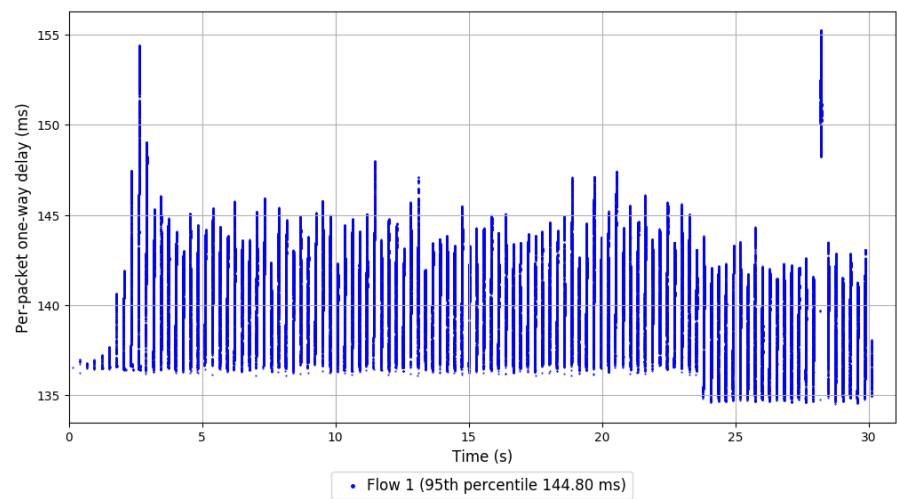
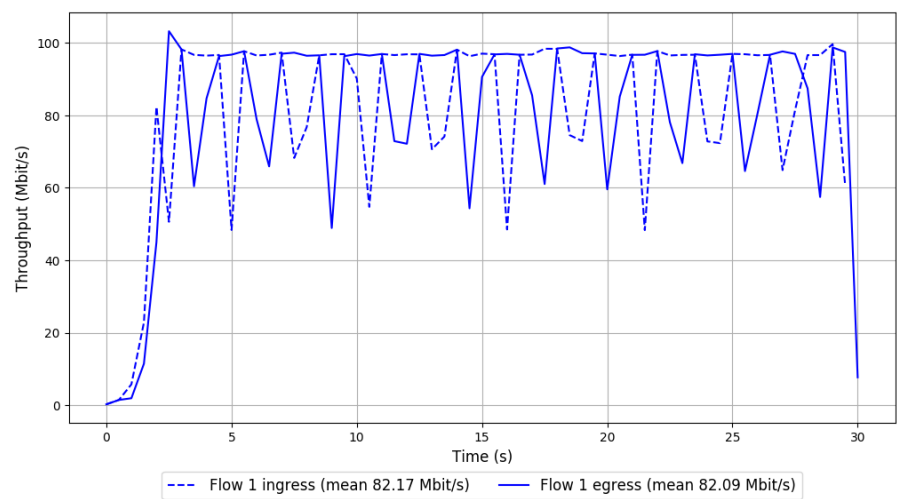
-- Flow 1:

Average throughput: 82.09 Mbit/s

95th percentile per-packet one-way delay: 144.803 ms

Loss rate: 0.10%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-27 15:24:09

End at: 2018-03-27 15:24:39

Below is generated by plot.py at 2018-03-27 19:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.98 Mbit/s

95th percentile per-packet one-way delay: 138.418 ms

Loss rate: 0.00%

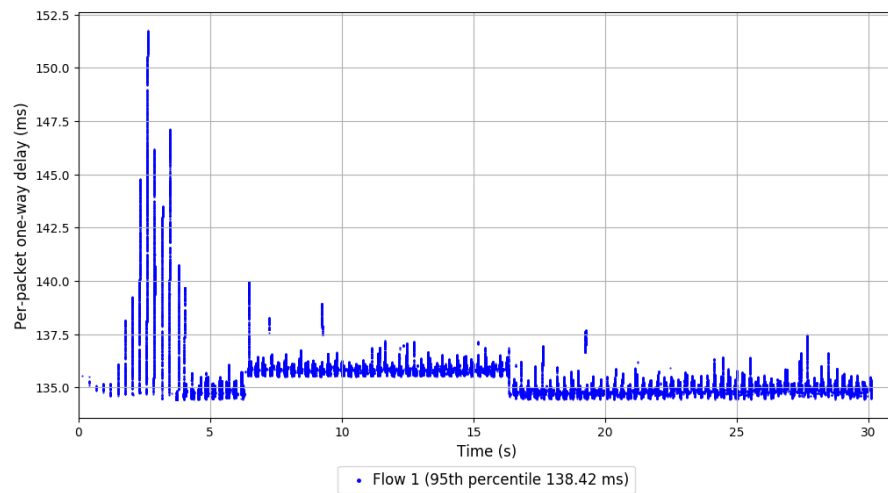
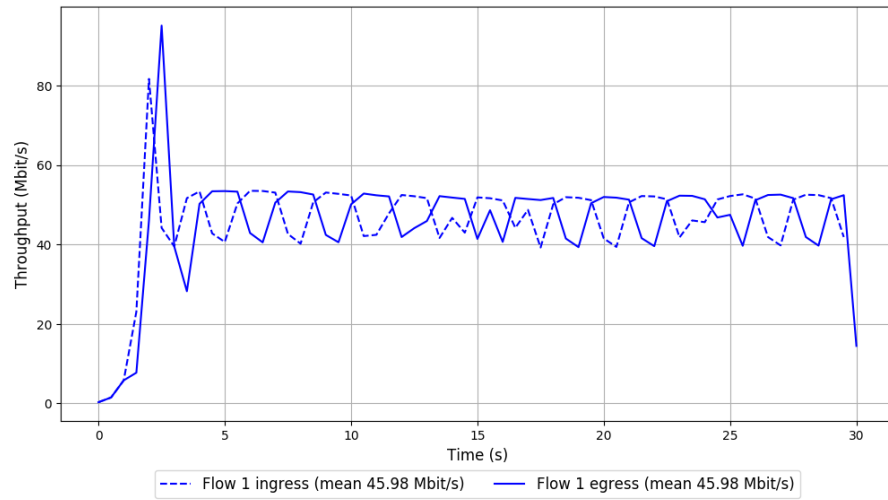
-- Flow 1:

Average throughput: 45.98 Mbit/s

95th percentile per-packet one-way delay: 138.418 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-27 15:40:10

End at: 2018-03-27 15:40:40

Below is generated by plot.py at 2018-03-27 19:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 138.075 ms

Loss rate: 0.00%

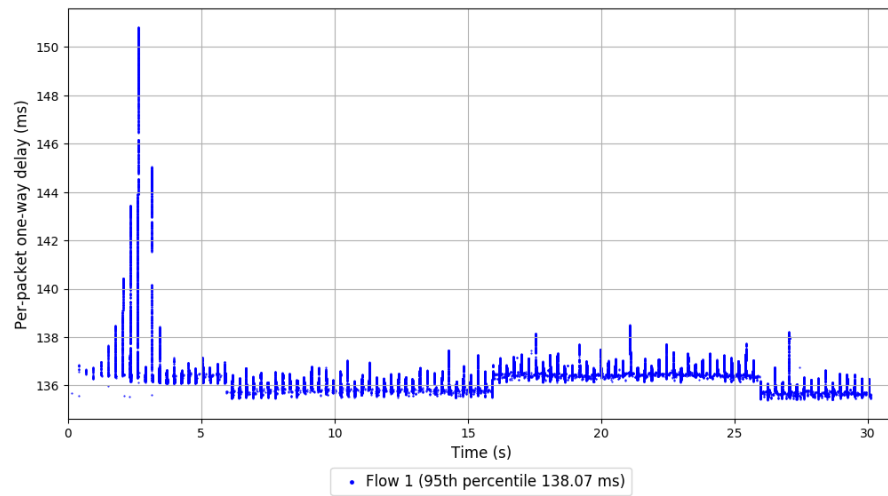
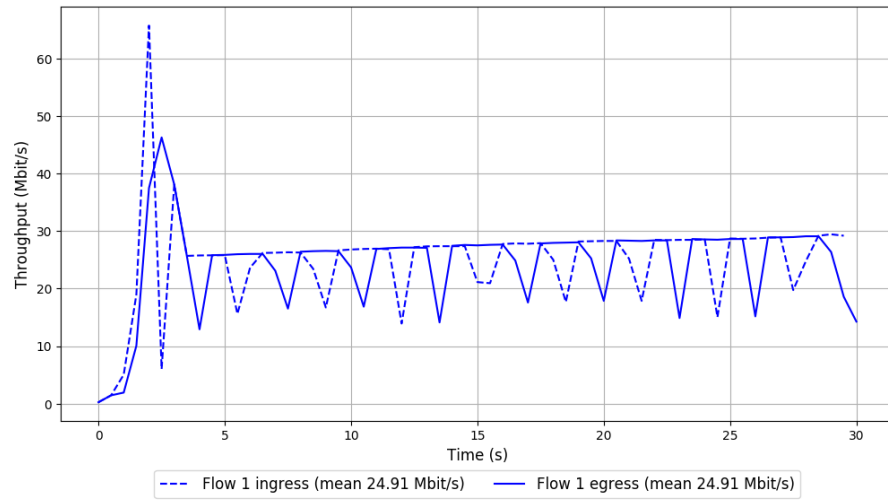
-- Flow 1:

Average throughput: 24.91 Mbit/s

95th percentile per-packet one-way delay: 138.075 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-27 15:56:13

End at: 2018-03-27 15:56:43

Below is generated by plot.py at 2018-03-27 19:22:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.78 Mbit/s

95th percentile per-packet one-way delay: 145.873 ms

Loss rate: 0.00%

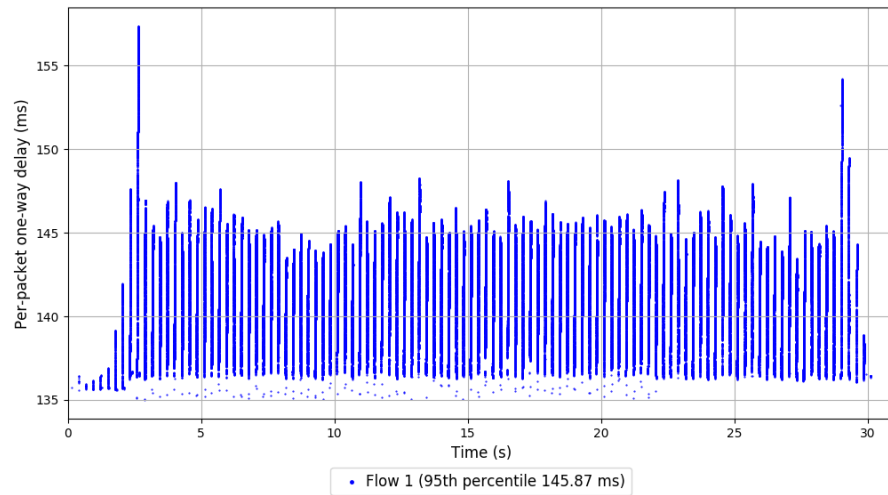
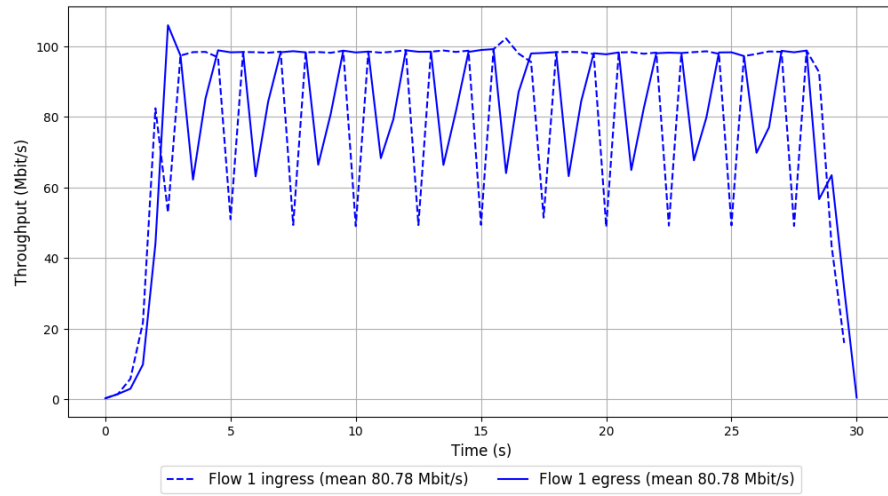
-- Flow 1:

Average throughput: 80.78 Mbit/s

95th percentile per-packet one-way delay: 145.873 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-27 16:11:40

End at: 2018-03-27 16:12:10

Below is generated by plot.py at 2018-03-27 19:22:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 142.601 ms

Loss rate: 0.00%

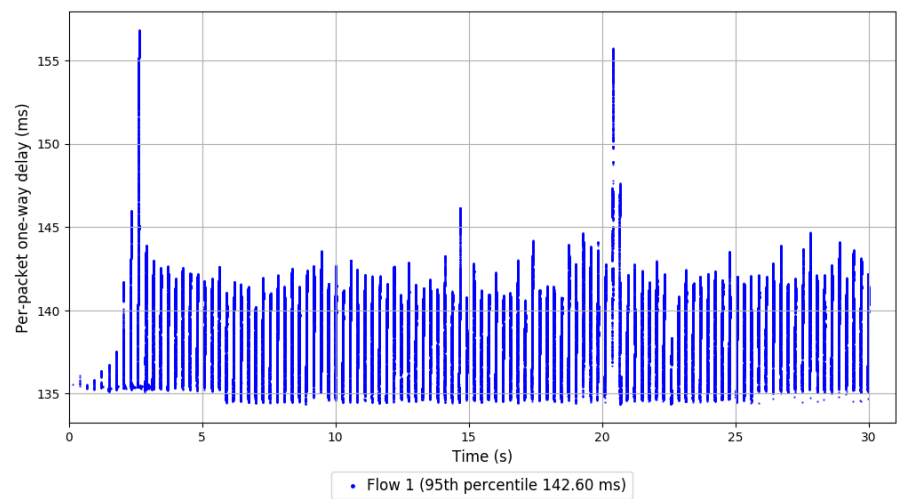
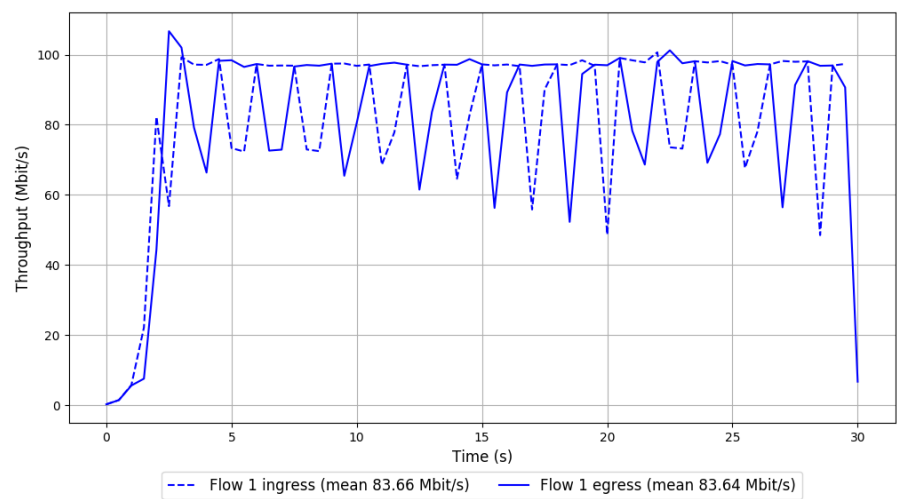
-- Flow 1:

Average throughput: 83.64 Mbit/s

95th percentile per-packet one-way delay: 142.601 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-27 16:27:36

End at: 2018-03-27 16:28:06

Below is generated by plot.py at 2018-03-27 19:22:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.96 Mbit/s

95th percentile per-packet one-way delay: 137.188 ms

Loss rate: 0.00%

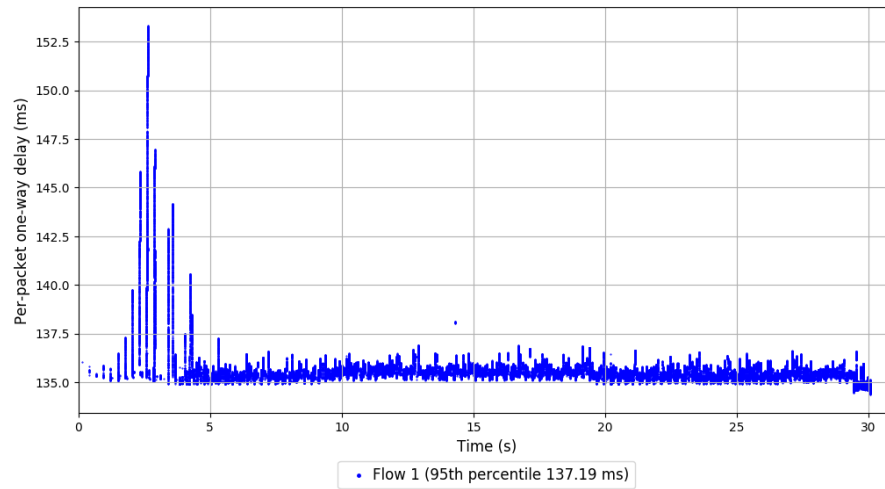
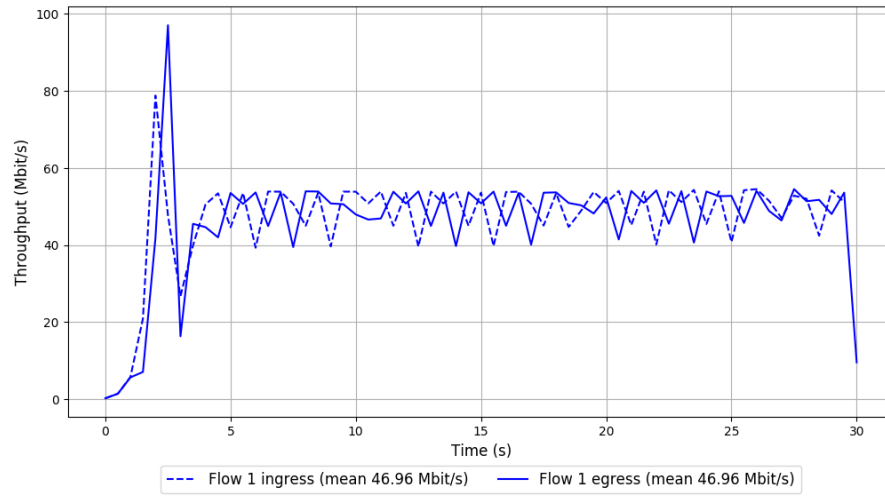
-- Flow 1:

Average throughput: 46.96 Mbit/s

95th percentile per-packet one-way delay: 137.188 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-27 16:43:23

End at: 2018-03-27 16:43:53

Below is generated by plot.py at 2018-03-27 19:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 144.044 ms

Loss rate: 0.19%

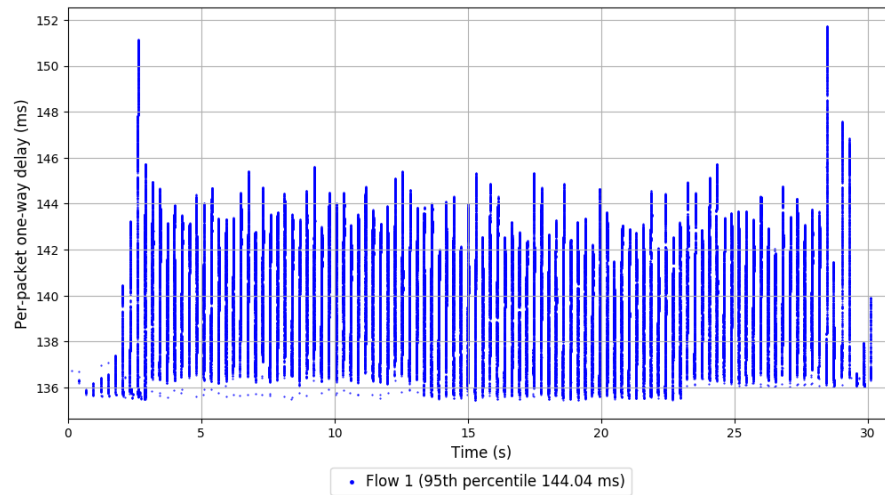
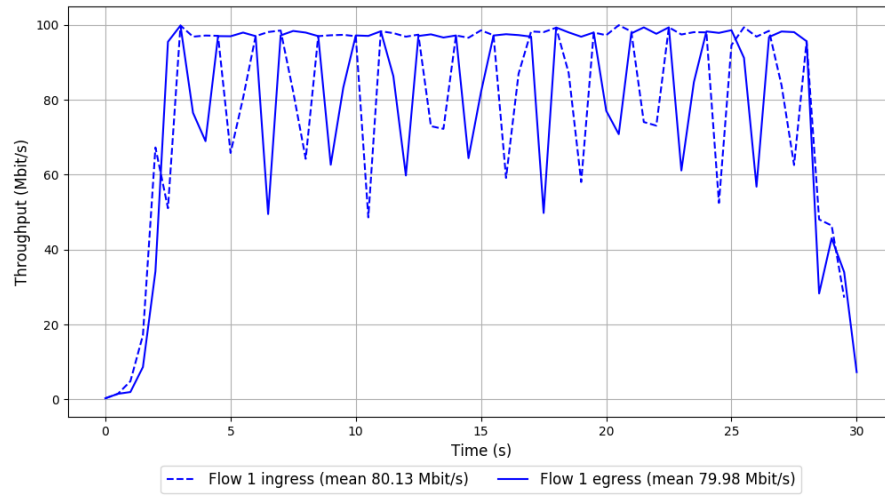
-- Flow 1:

Average throughput: 79.98 Mbit/s

95th percentile per-packet one-way delay: 144.044 ms

Loss rate: 0.19%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-27 16:58:59

End at: 2018-03-27 16:59:29

Below is generated by plot.py at 2018-03-27 19:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 137.509 ms

Loss rate: 0.00%

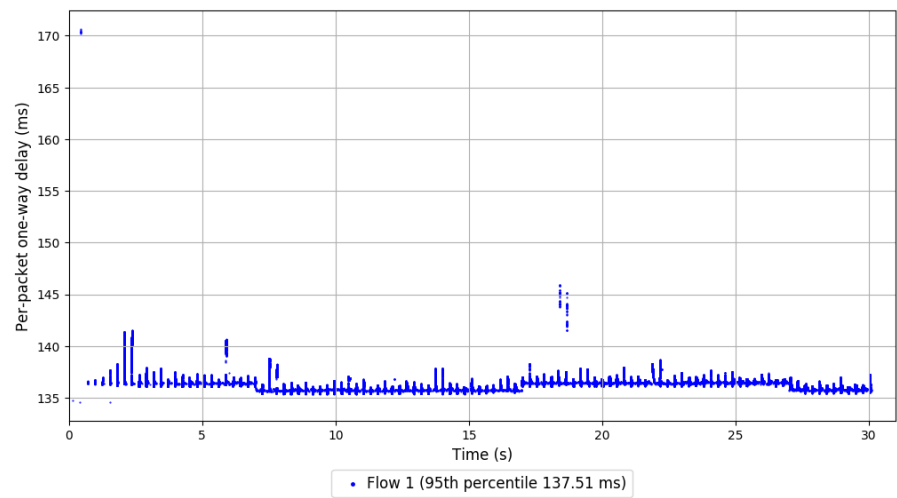
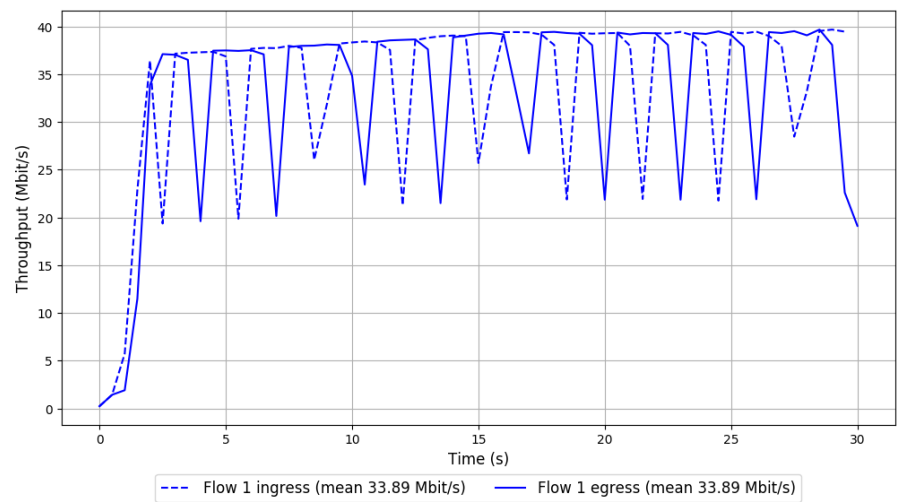
-- Flow 1:

Average throughput: 33.89 Mbit/s

95th percentile per-packet one-way delay: 137.509 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-27 17:14:37

End at: 2018-03-27 17:15:07

Below is generated by plot.py at 2018-03-27 19:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 137.621 ms

Loss rate: 0.02%

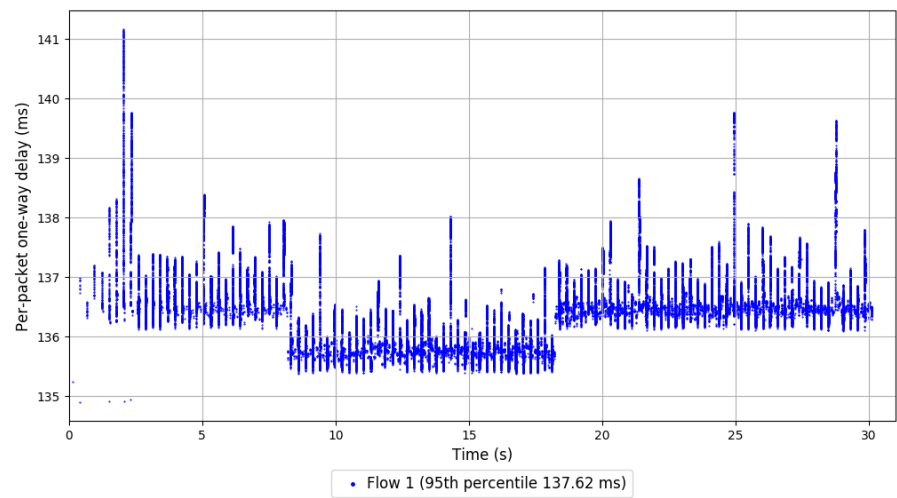
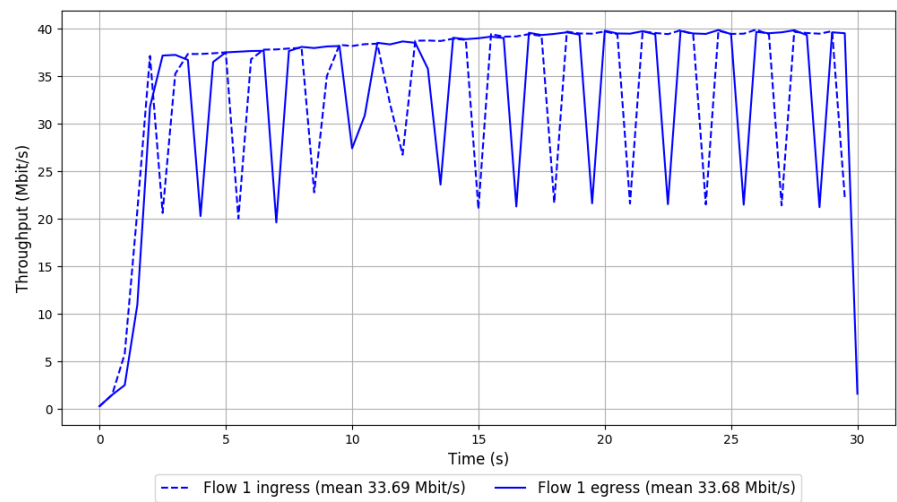
-- Flow 1:

Average throughput: 33.68 Mbit/s

95th percentile per-packet one-way delay: 137.621 ms

Loss rate: 0.02%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-27 14:59:03

End at: 2018-03-27 14:59:33

Below is generated by plot.py at 2018-03-27 19:24:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.58 Mbit/s

95th percentile per-packet one-way delay: 257.980 ms

Loss rate: 0.24%

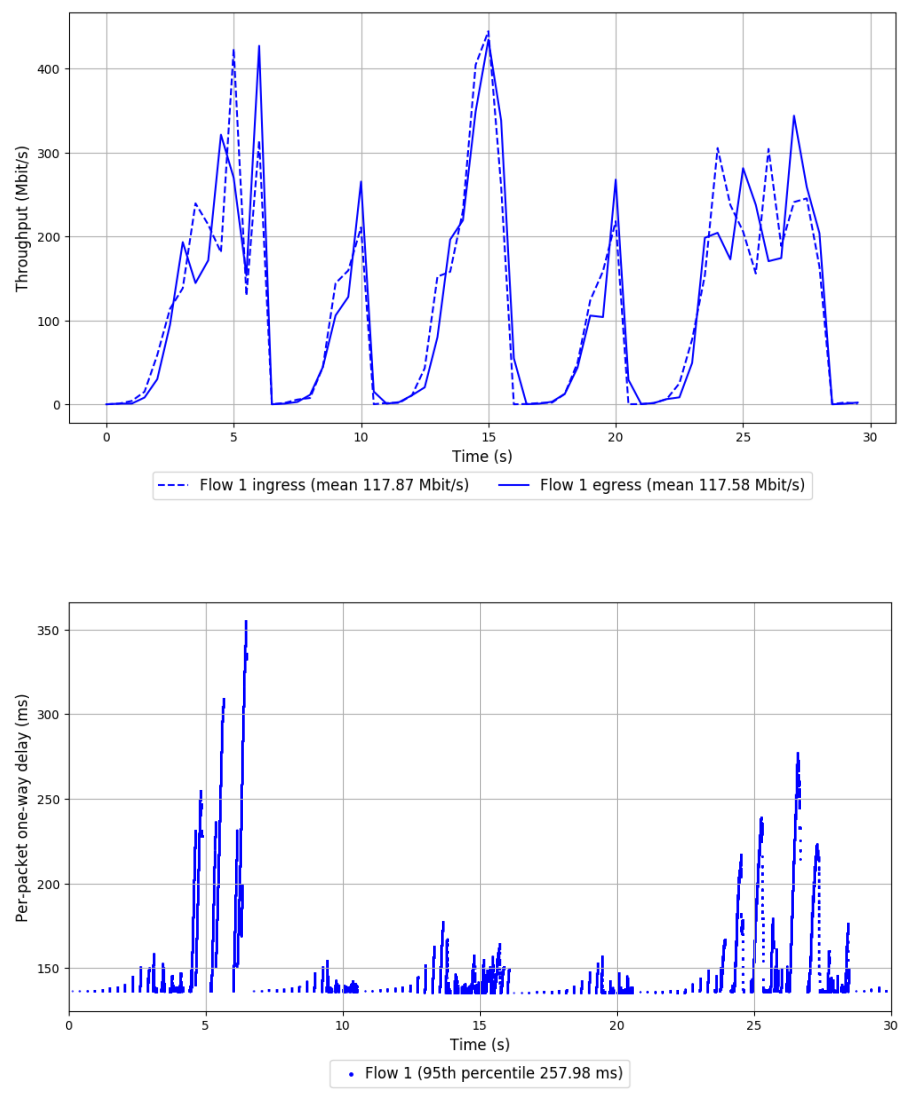
-- Flow 1:

Average throughput: 117.58 Mbit/s

95th percentile per-packet one-way delay: 257.980 ms

Loss rate: 0.24%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-27 15:14:49

End at: 2018-03-27 15:15:19

Below is generated by plot.py at 2018-03-27 19:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.31 Mbit/s

95th percentile per-packet one-way delay: 197.221 ms

Loss rate: 0.00%

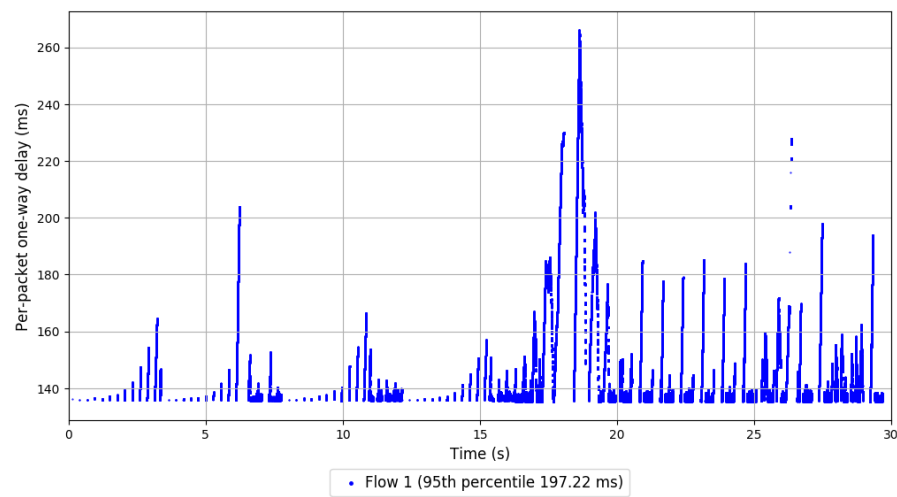
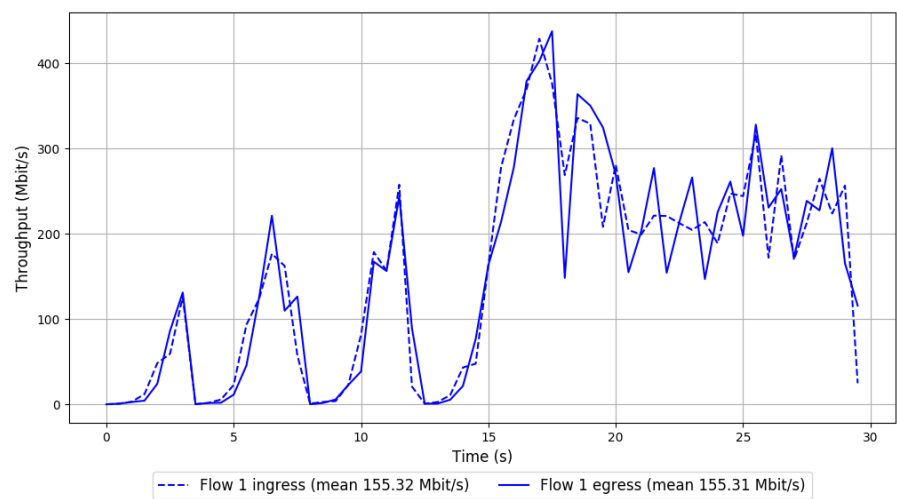
-- Flow 1:

Average throughput: 155.31 Mbit/s

95th percentile per-packet one-way delay: 197.221 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-27 15:30:37

End at: 2018-03-27 15:31:07

Below is generated by plot.py at 2018-03-27 19:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.42 Mbit/s

95th percentile per-packet one-way delay: 199.541 ms

Loss rate: 0.07%

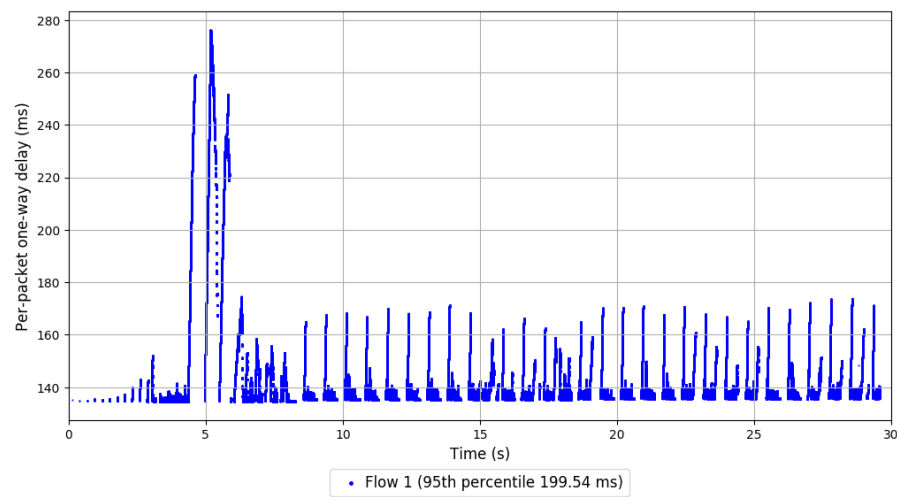
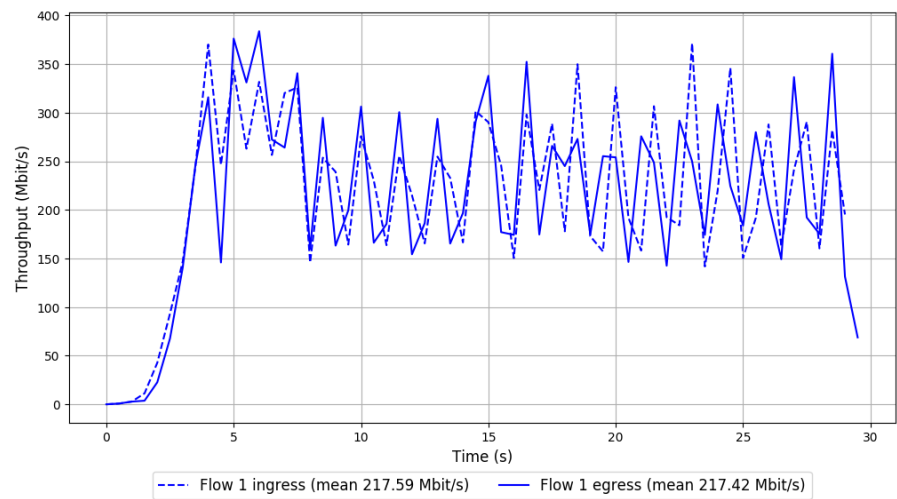
-- Flow 1:

Average throughput: 217.42 Mbit/s

95th percentile per-packet one-way delay: 199.541 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-27 15:46:39

End at: 2018-03-27 15:47:09

Below is generated by plot.py at 2018-03-27 19:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.17 Mbit/s

95th percentile per-packet one-way delay: 167.466 ms

Loss rate: 0.00%

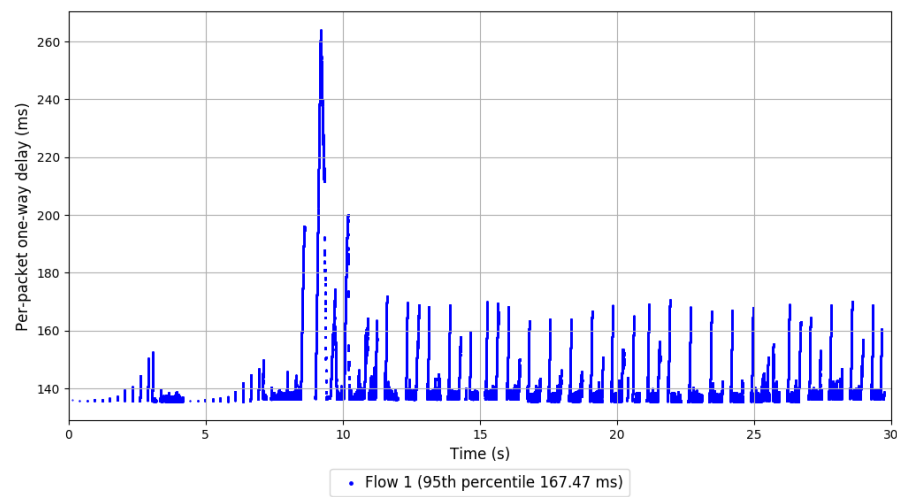
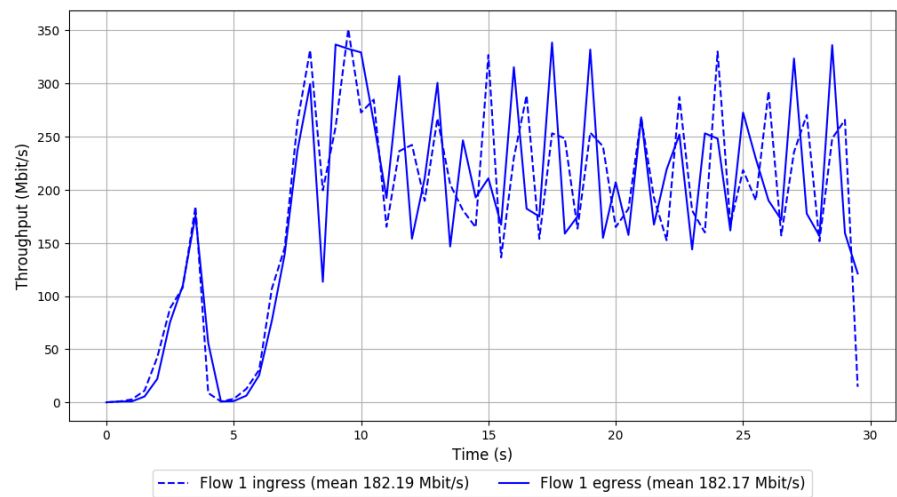
-- Flow 1:

Average throughput: 182.17 Mbit/s

95th percentile per-packet one-way delay: 167.466 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-27 16:02:23

End at: 2018-03-27 16:02:53

Below is generated by plot.py at 2018-03-27 19:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.76 Mbit/s

95th percentile per-packet one-way delay: 168.704 ms

Loss rate: 0.11%

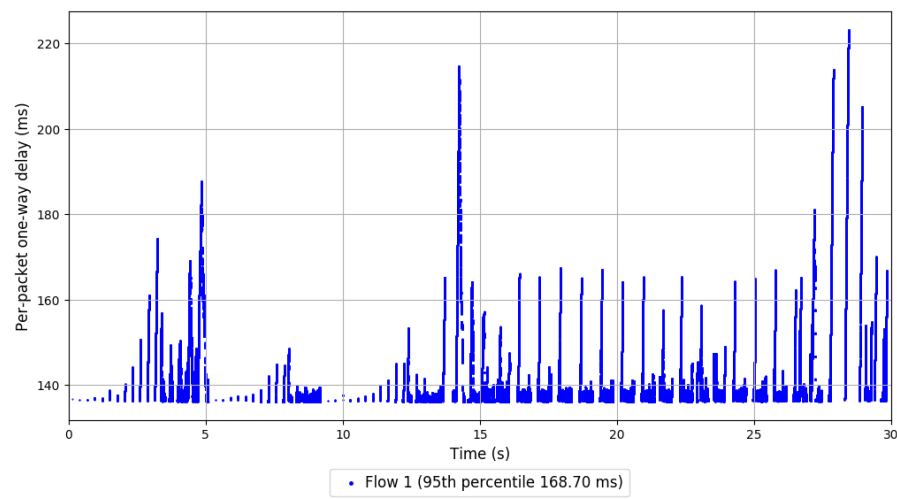
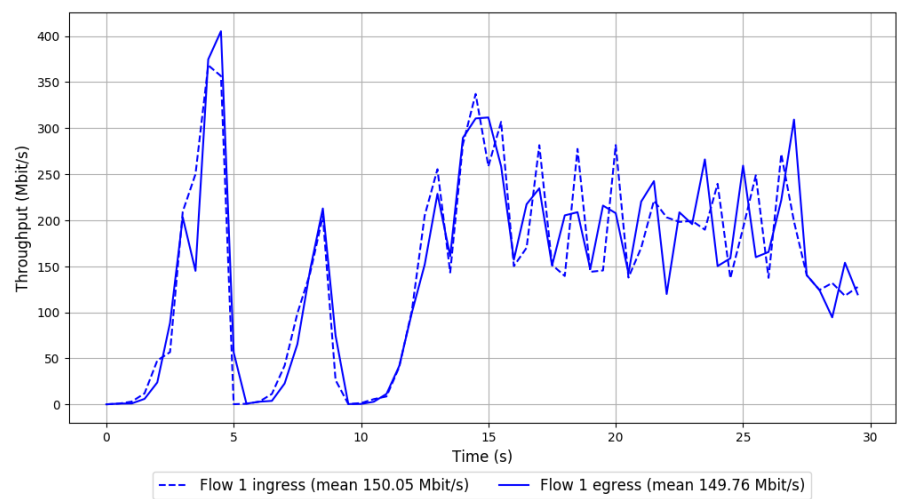
-- Flow 1:

Average throughput: 149.76 Mbit/s

95th percentile per-packet one-way delay: 168.704 ms

Loss rate: 0.11%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-27 16:18:08

End at: 2018-03-27 16:18:38

Below is generated by plot.py at 2018-03-27 19:27:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.91 Mbit/s

95th percentile per-packet one-way delay: 206.558 ms

Loss rate: 0.15%

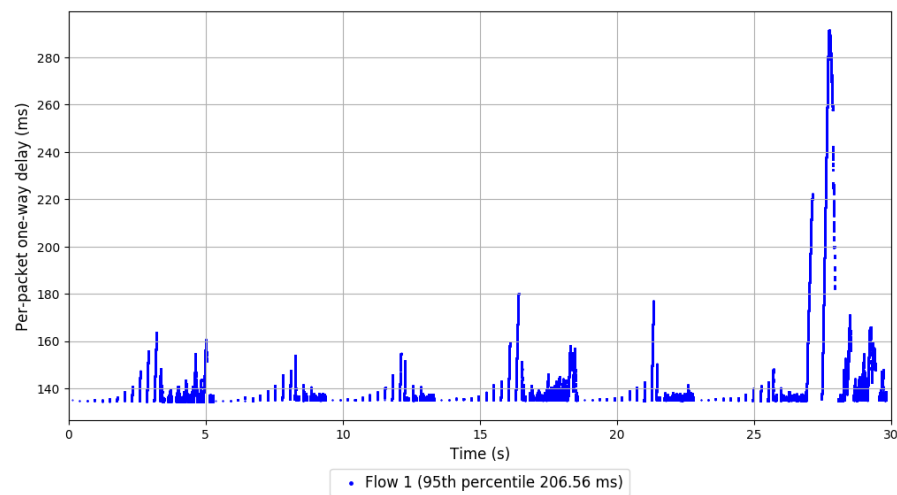
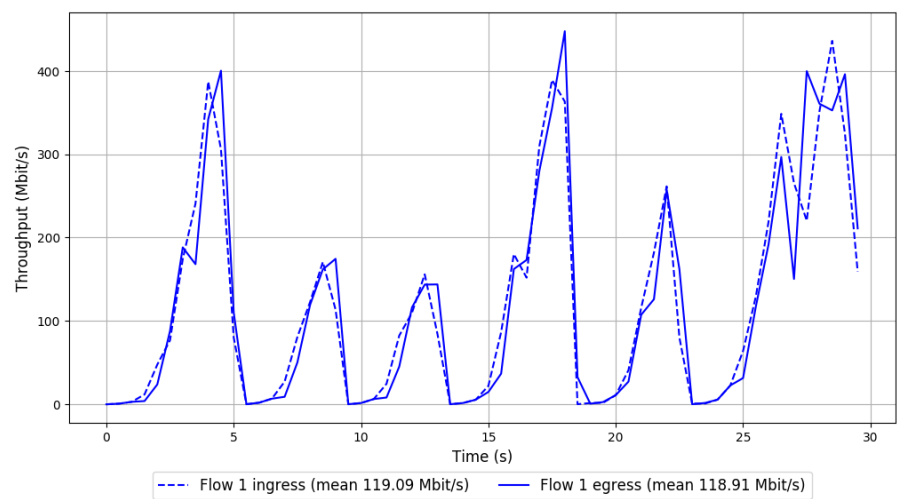
-- Flow 1:

Average throughput: 118.91 Mbit/s

95th percentile per-packet one-way delay: 206.558 ms

Loss rate: 0.15%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-27 16:33:45

End at: 2018-03-27 16:34:15

Below is generated by plot.py at 2018-03-27 19:27:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.34 Mbit/s

95th percentile per-packet one-way delay: 337.602 ms

Loss rate: 6.38%

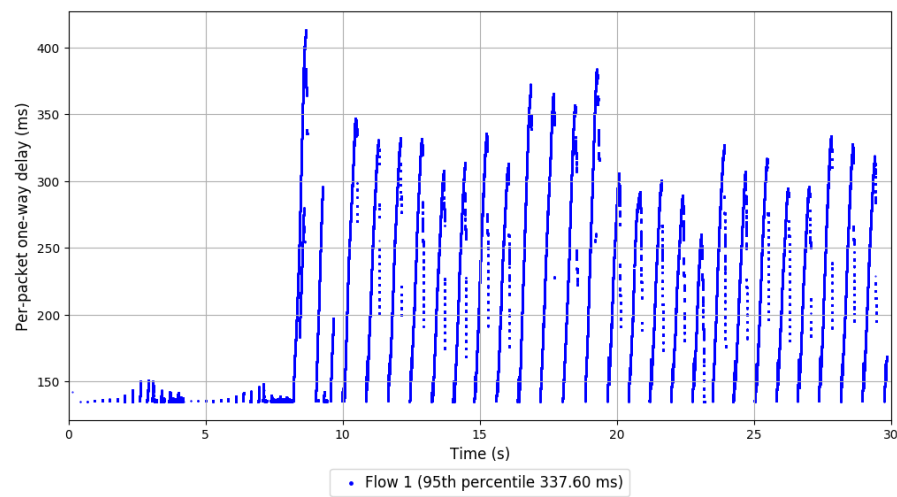
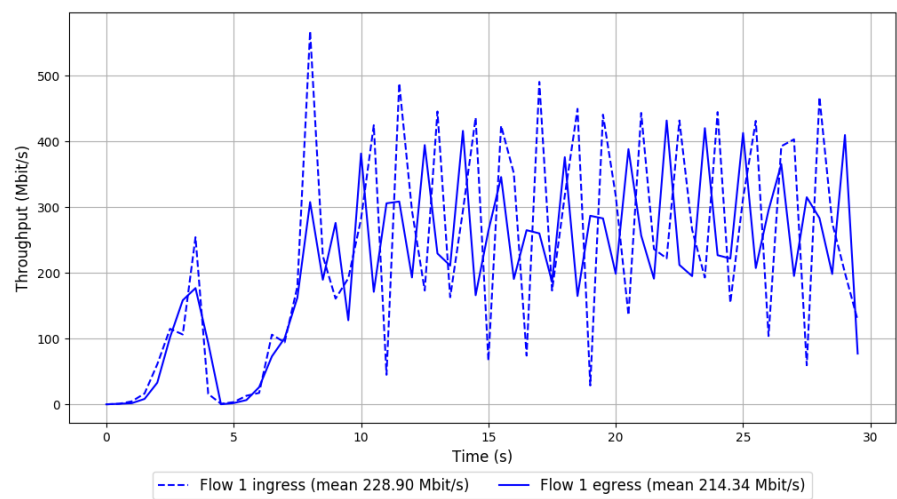
-- Flow 1:

Average throughput: 214.34 Mbit/s

95th percentile per-packet one-way delay: 337.602 ms

Loss rate: 6.38%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-27 16:49:36

End at: 2018-03-27 16:50:06

Below is generated by plot.py at 2018-03-27 19:27:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.92 Mbit/s

95th percentile per-packet one-way delay: 190.510 ms

Loss rate: 0.22%

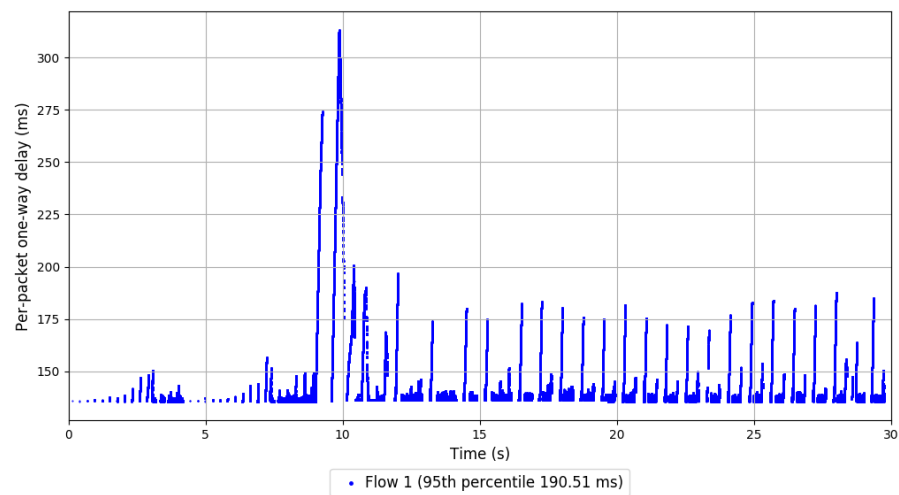
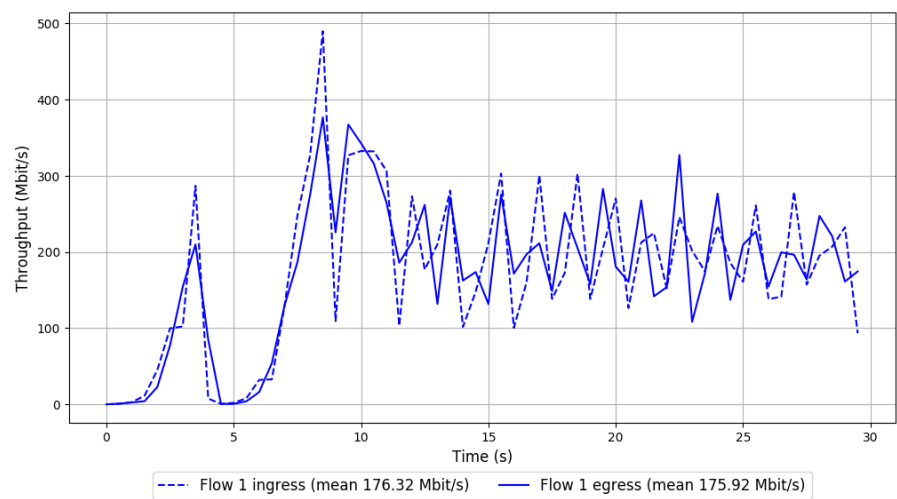
-- Flow 1:

Average throughput: 175.92 Mbit/s

95th percentile per-packet one-way delay: 190.510 ms

Loss rate: 0.22%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-27 17:05:24

End at: 2018-03-27 17:05:54

Below is generated by plot.py at 2018-03-27 19:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.76 Mbit/s

95th percentile per-packet one-way delay: 263.074 ms

Loss rate: 1.09%

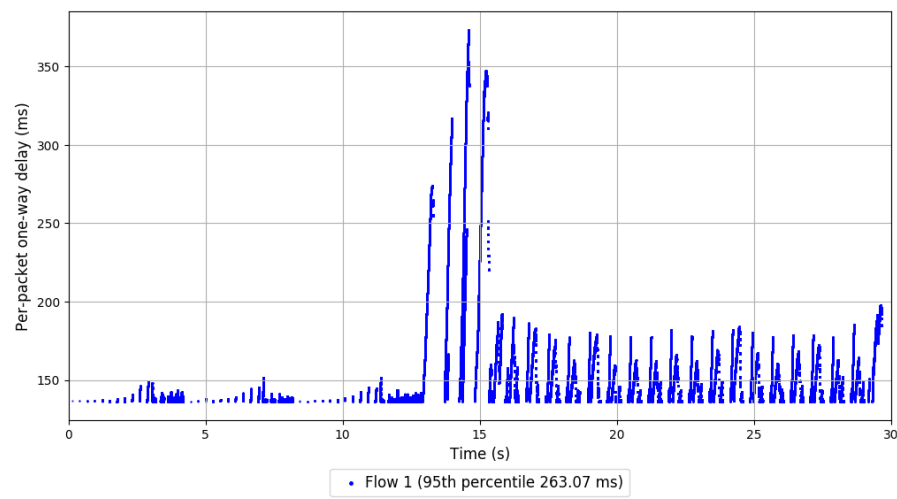
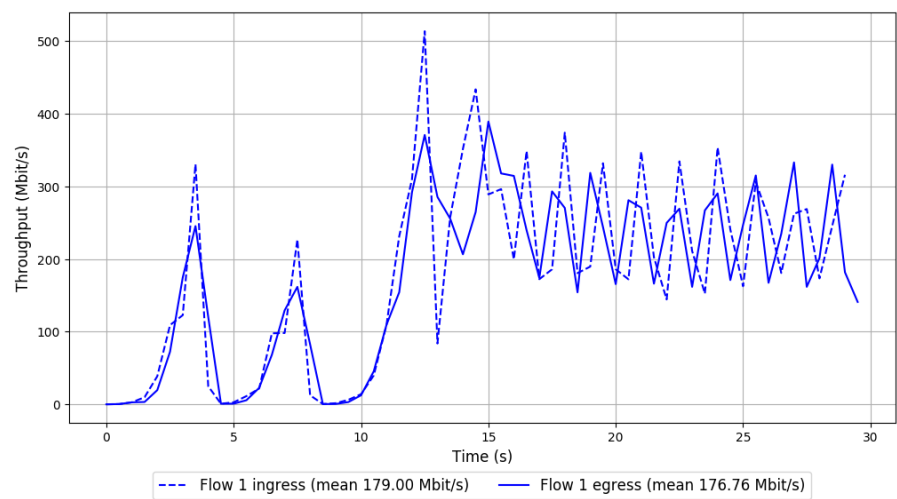
-- Flow 1:

Average throughput: 176.76 Mbit/s

95th percentile per-packet one-way delay: 263.074 ms

Loss rate: 1.09%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-27 17:21:07

End at: 2018-03-27 17:21:37

Below is generated by plot.py at 2018-03-27 19:30:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.31 Mbit/s

95th percentile per-packet one-way delay: 171.462 ms

Loss rate: 0.00%

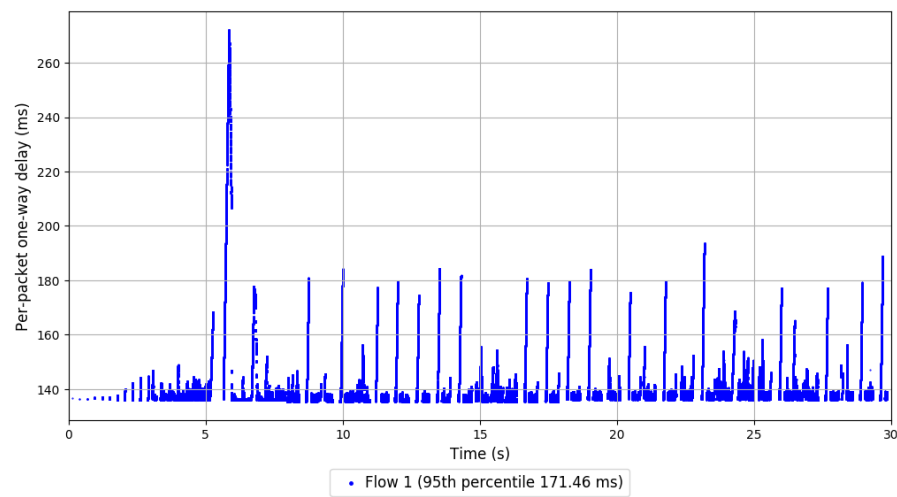
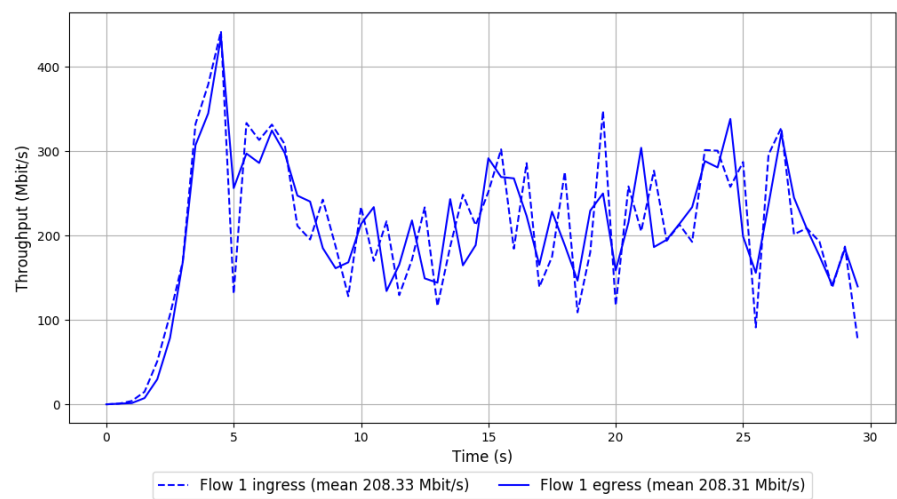
-- Flow 1:

Average throughput: 208.31 Mbit/s

95th percentile per-packet one-way delay: 171.462 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-27 14:51:12

End at: 2018-03-27 14:51:42

Below is generated by plot.py at 2018-03-27 19:30:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.78 Mbit/s

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

Loss rate: 0.00%

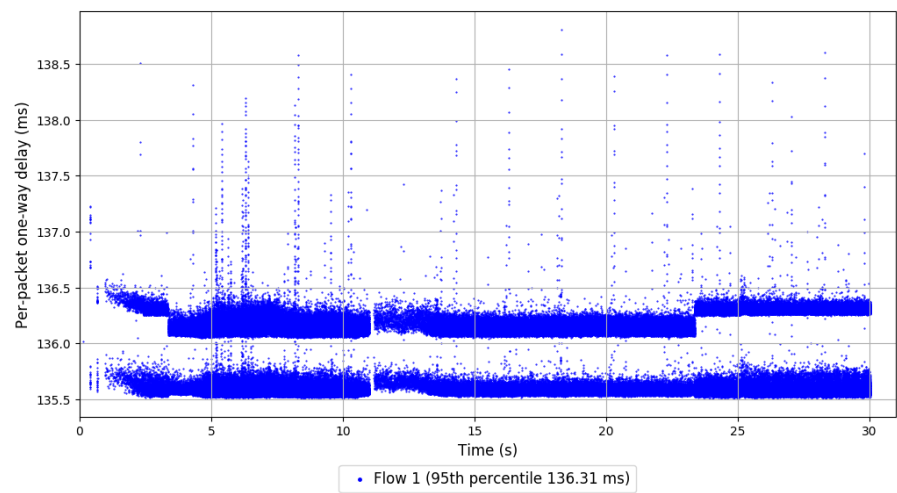
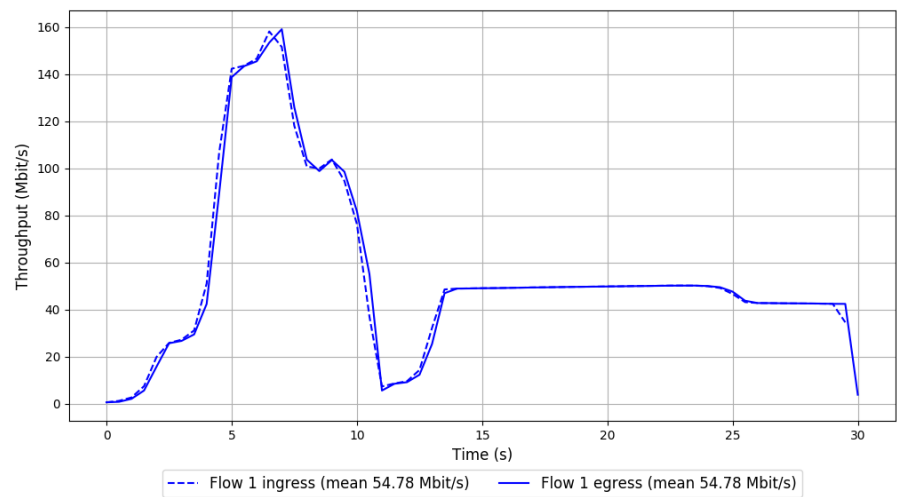
-- Flow 1:

Average throughput: 54.78 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-27 15:06:47

End at: 2018-03-27 15:07:17

Below is generated by plot.py at 2018-03-27 19:30:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 136.297 ms

Loss rate: 0.00%

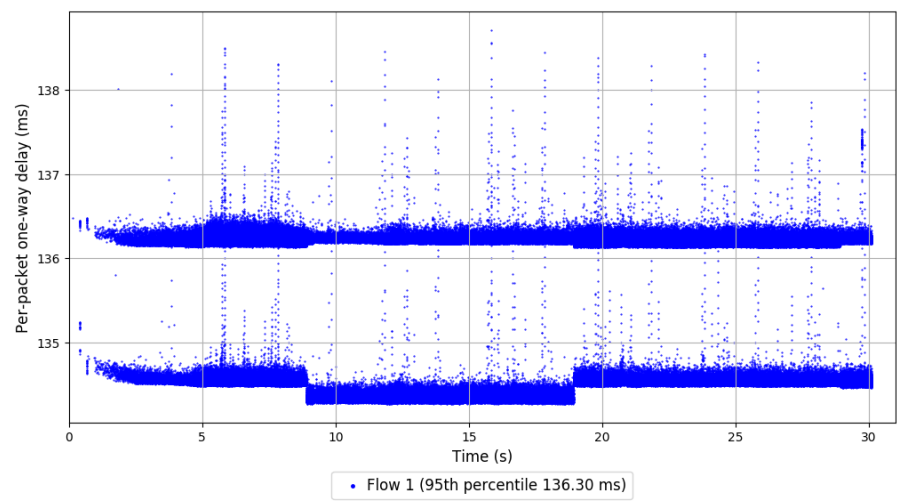
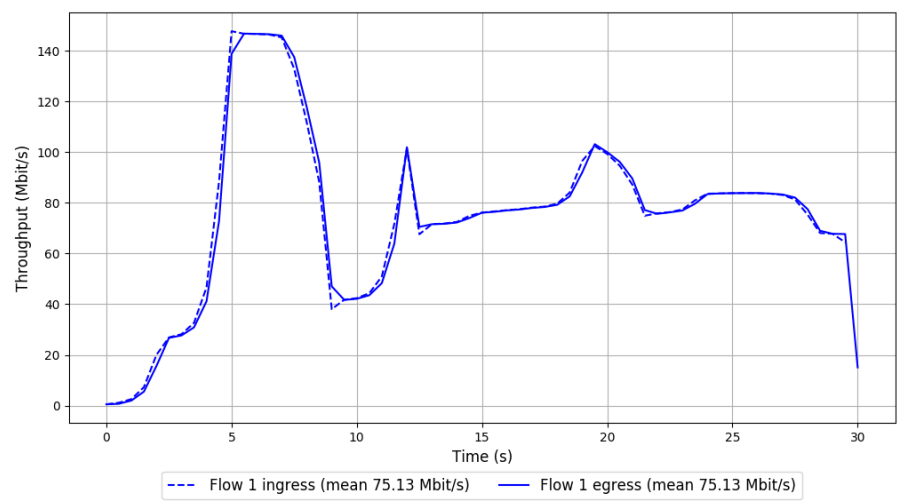
-- Flow 1:

Average throughput: 75.13 Mbit/s

95th percentile per-packet one-way delay: 136.297 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-27 15:22:24

End at: 2018-03-27 15:22:54

Below is generated by plot.py at 2018-03-27 19:30:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.23 Mbit/s

95th percentile per-packet one-way delay: 135.600 ms

Loss rate: 0.00%

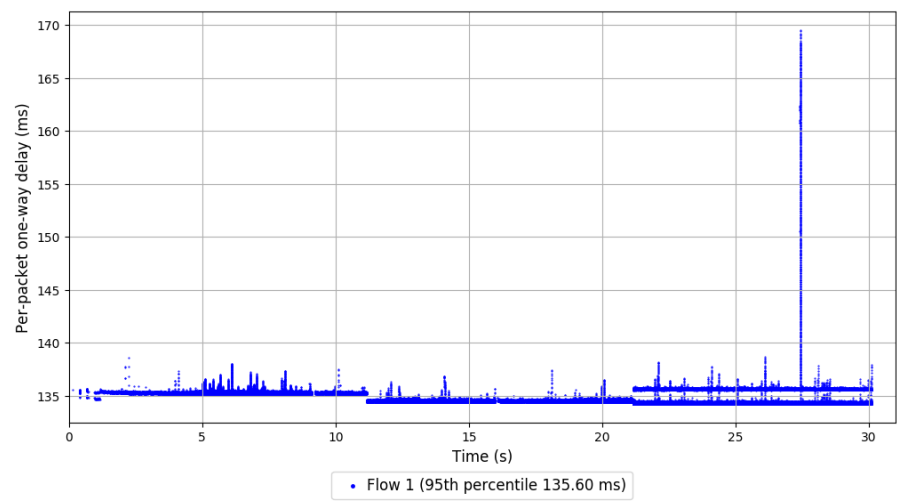
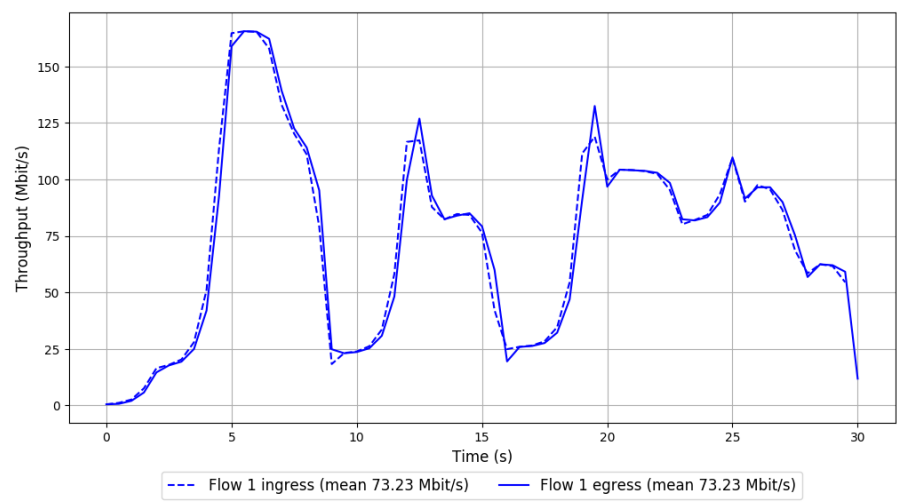
-- Flow 1:

Average throughput: 73.23 Mbit/s

95th percentile per-packet one-way delay: 135.600 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-27 15:38:25

End at: 2018-03-27 15:38:55

Below is generated by plot.py at 2018-03-27 19:30:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.73 Mbit/s

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

Loss rate: 0.00%

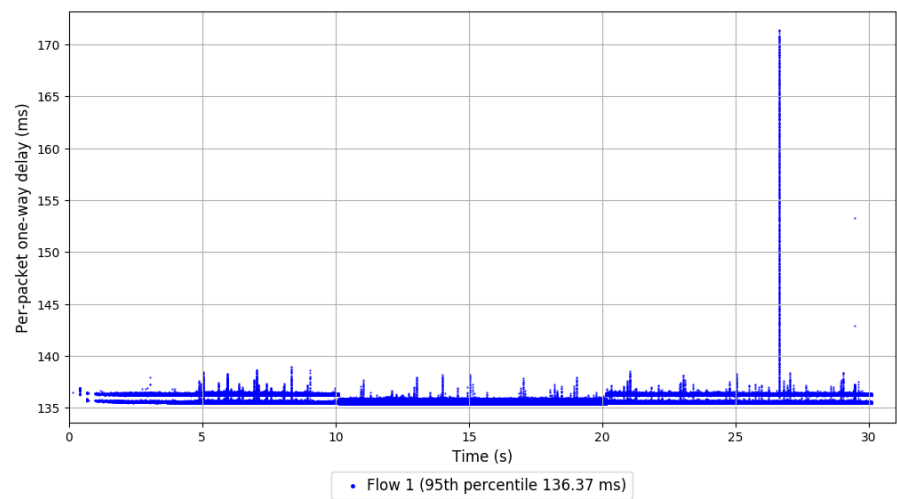
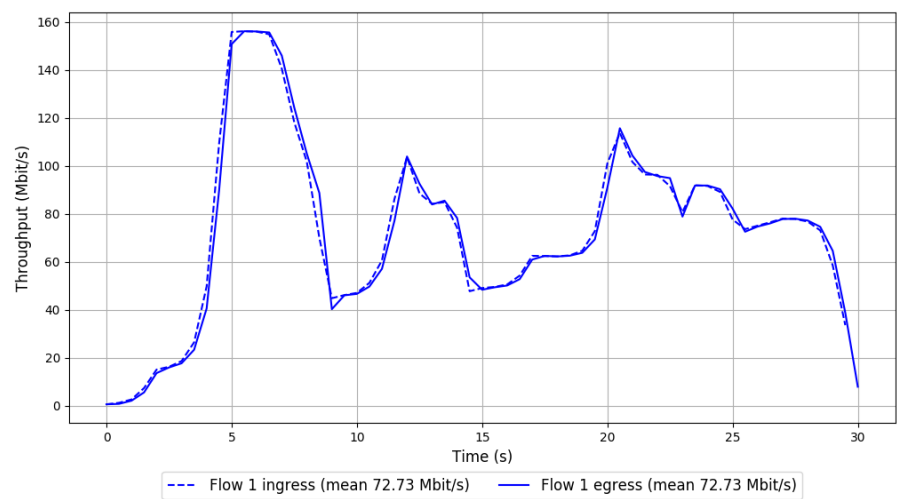
-- Flow 1:

Average throughput: 72.73 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-27 15:54:29

End at: 2018-03-27 15:54:59

Below is generated by plot.py at 2018-03-27 19:30:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.34 Mbit/s

95th percentile per-packet one-way delay: 136.236 ms

Loss rate: 0.00%

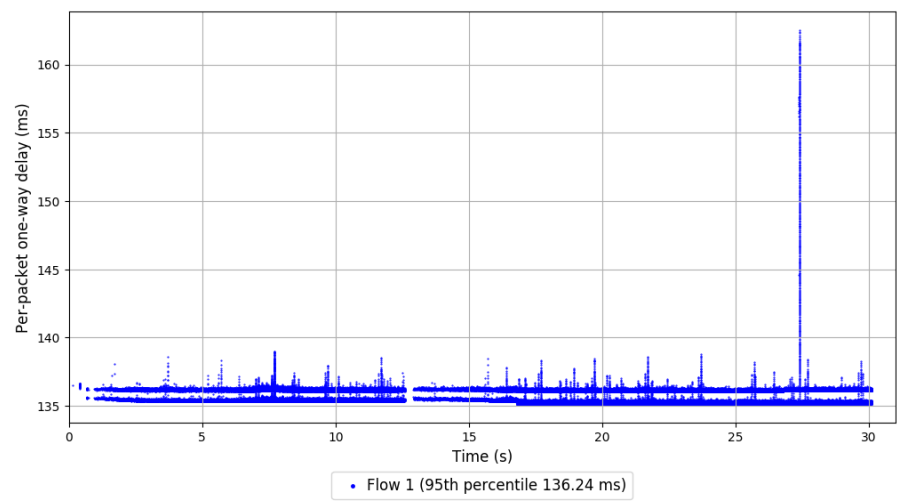
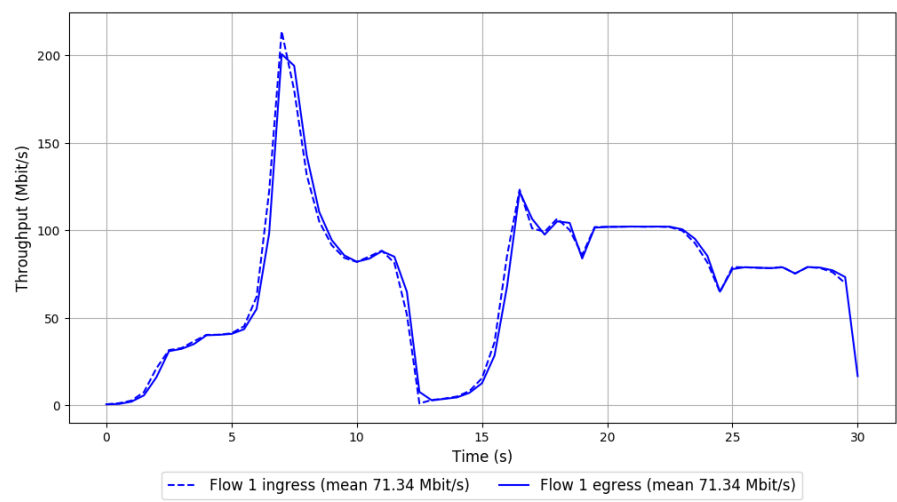
-- Flow 1:

Average throughput: 71.34 Mbit/s

95th percentile per-packet one-way delay: 136.236 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-27 16:09:55

End at: 2018-03-27 16:10:25

Below is generated by plot.py at 2018-03-27 19:30:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.50 Mbit/s

95th percentile per-packet one-way delay: 136.219 ms

Loss rate: 0.00%

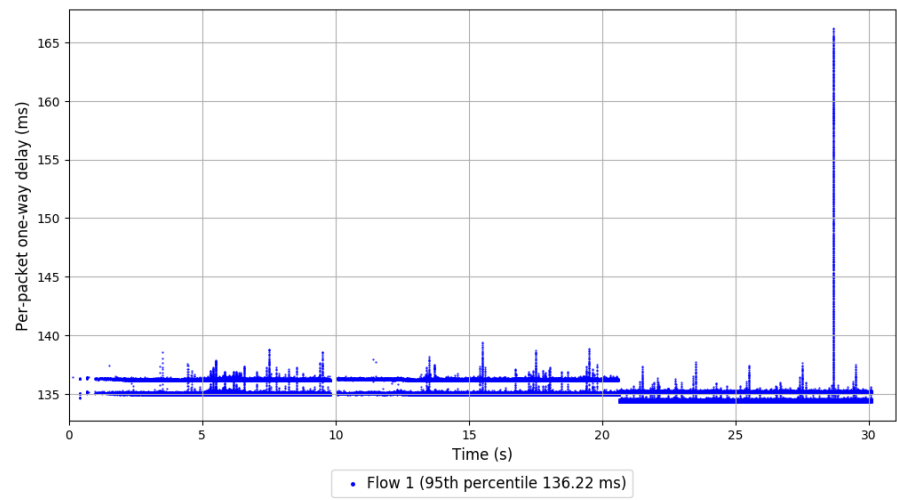
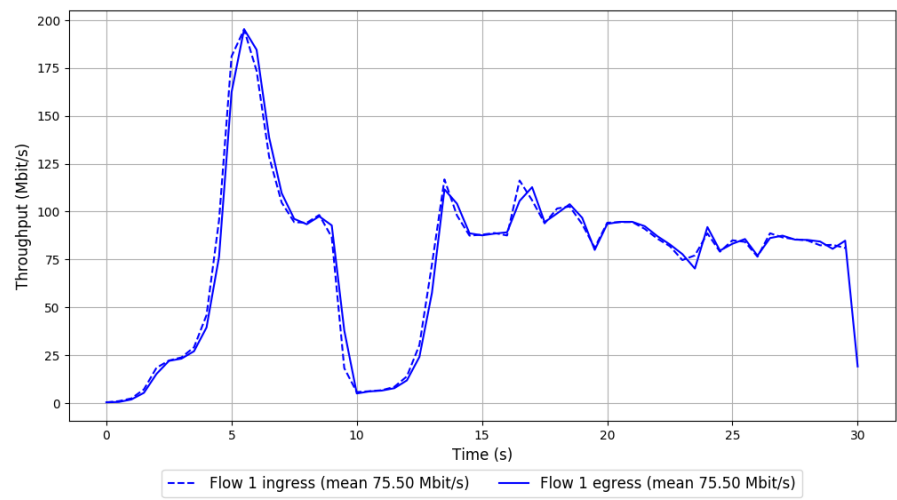
-- Flow 1:

Average throughput: 75.50 Mbit/s

95th percentile per-packet one-way delay: 136.219 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-27 16:25:54

End at: 2018-03-27 16:26:24

Below is generated by plot.py at 2018-03-27 19:31:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 136.564 ms

Loss rate: 0.00%

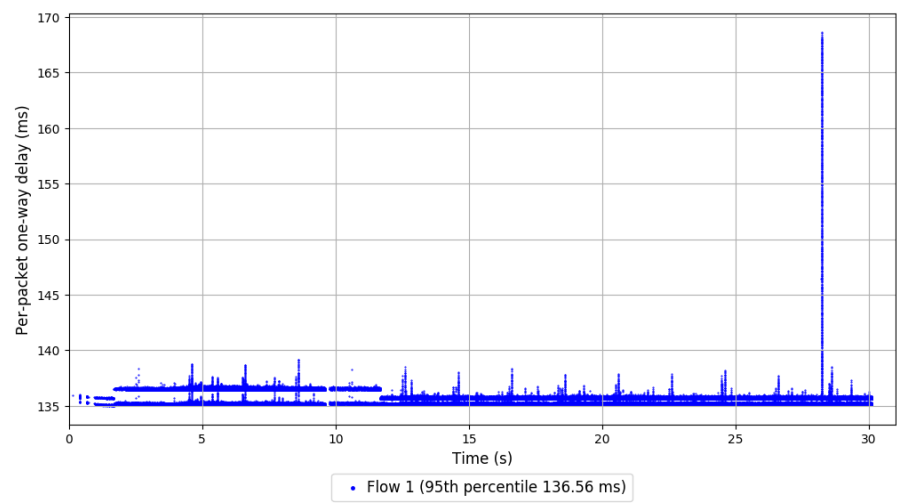
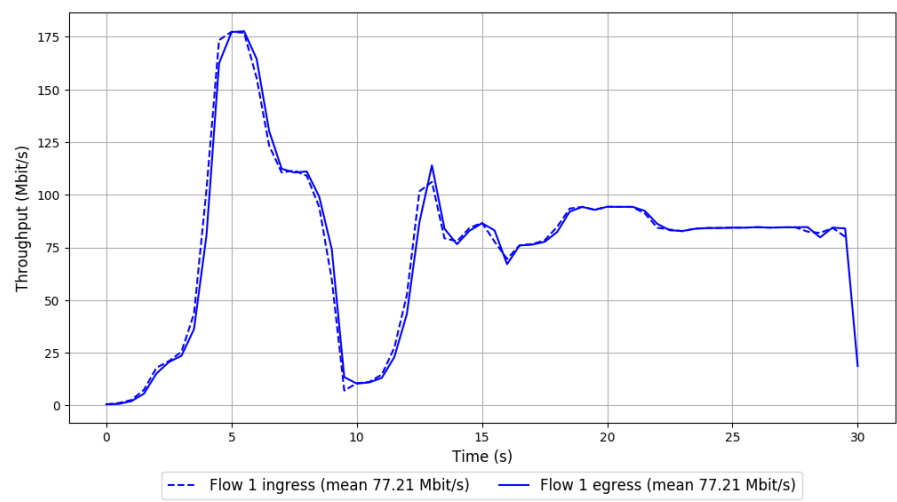
-- Flow 1:

Average throughput: 77.21 Mbit/s

95th percentile per-packet one-way delay: 136.564 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-27 16:41:37

End at: 2018-03-27 16:42:07

Below is generated by plot.py at 2018-03-27 19:31:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.54 Mbit/s

95th percentile per-packet one-way delay: 136.680 ms

Loss rate: 0.00%

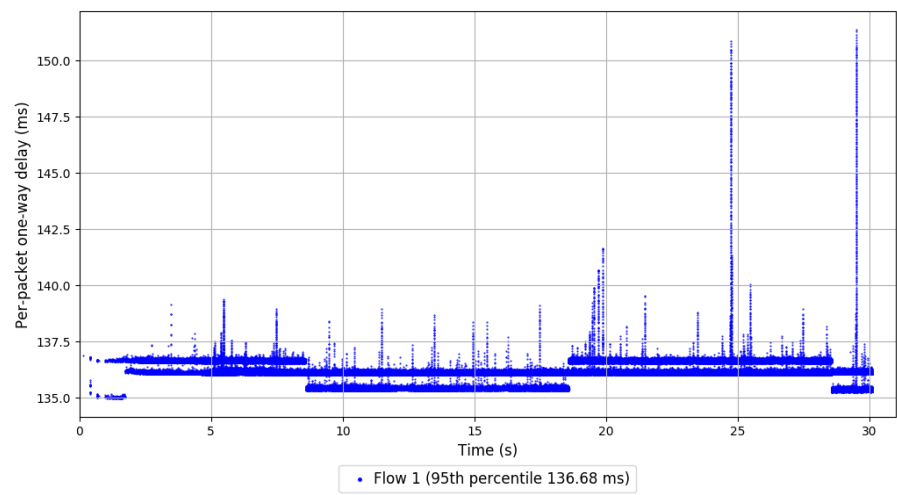
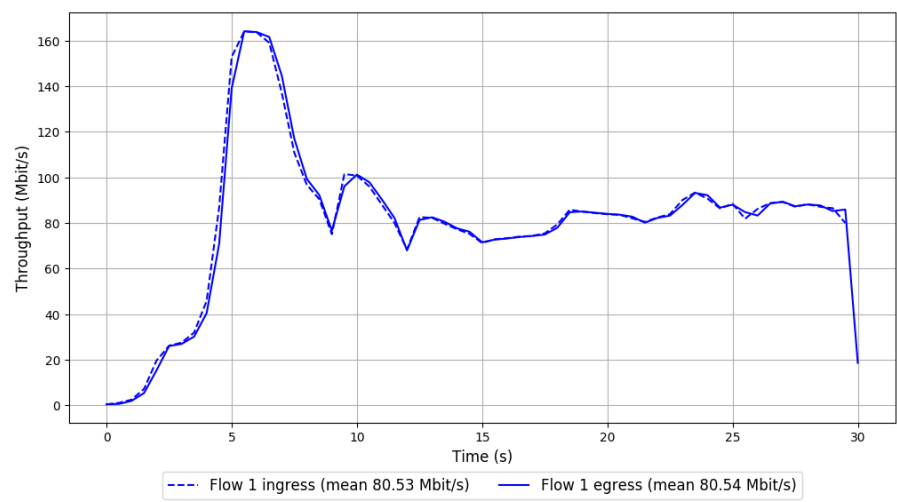
-- Flow 1:

Average throughput: 80.54 Mbit/s

95th percentile per-packet one-way delay: 136.680 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-27 16:57:18

End at: 2018-03-27 16:57:48

Below is generated by plot.py at 2018-03-27 19:31:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.96 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 0.00%

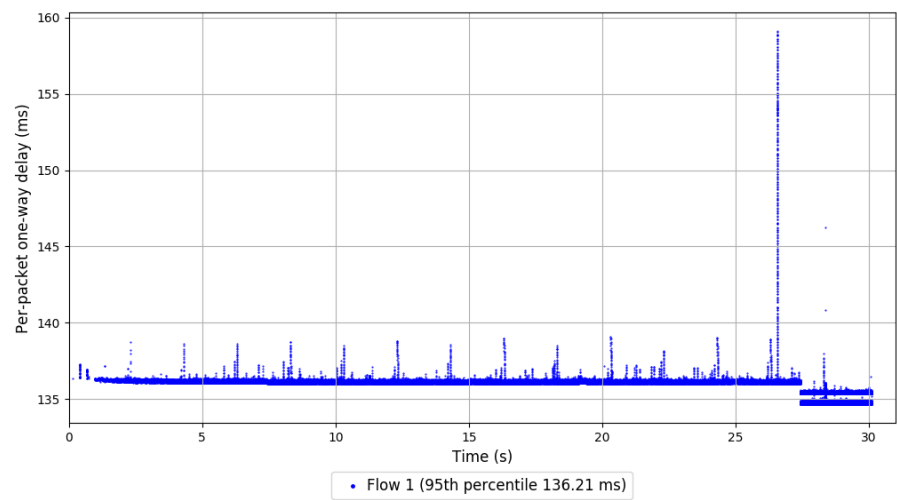
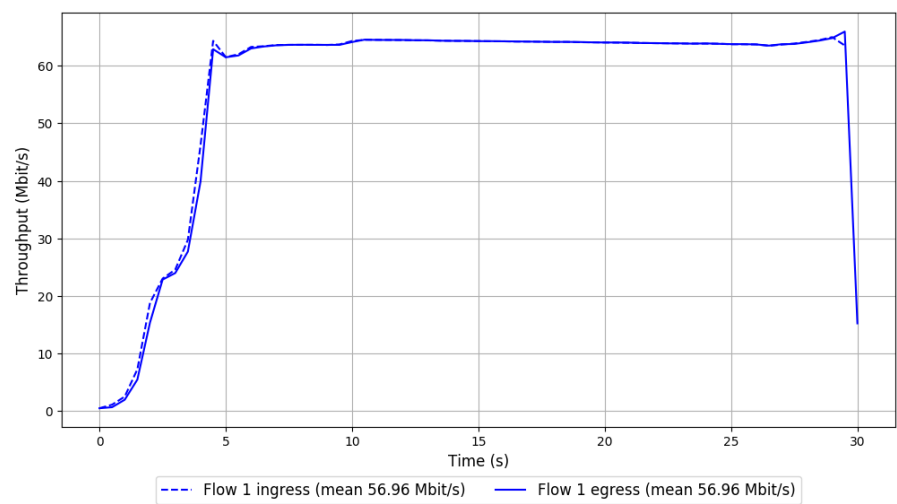
-- Flow 1:

Average throughput: 56.96 Mbit/s

95th percentile per-packet one-way delay: 136.212 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-27 17:12:53

End at: 2018-03-27 17:13:23

Below is generated by plot.py at 2018-03-27 19:32:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.77 Mbit/s

95th percentile per-packet one-way delay: 136.229 ms

Loss rate: 0.00%

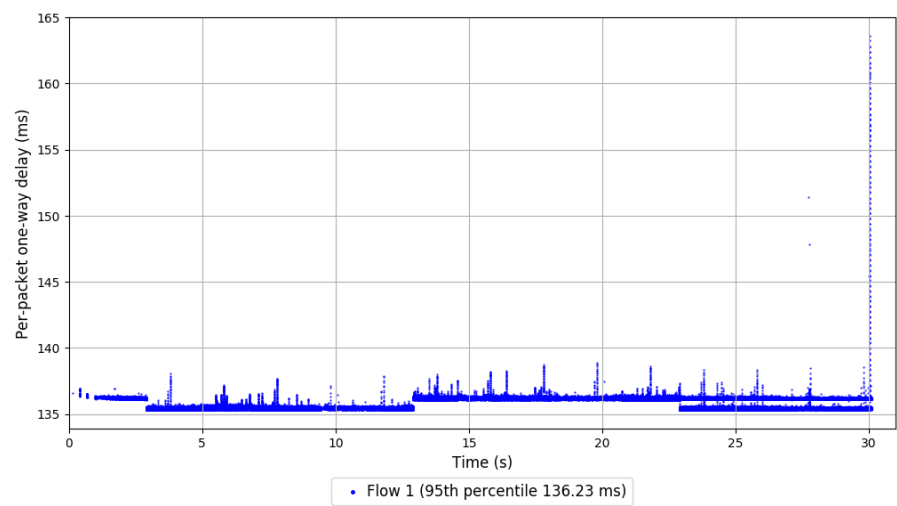
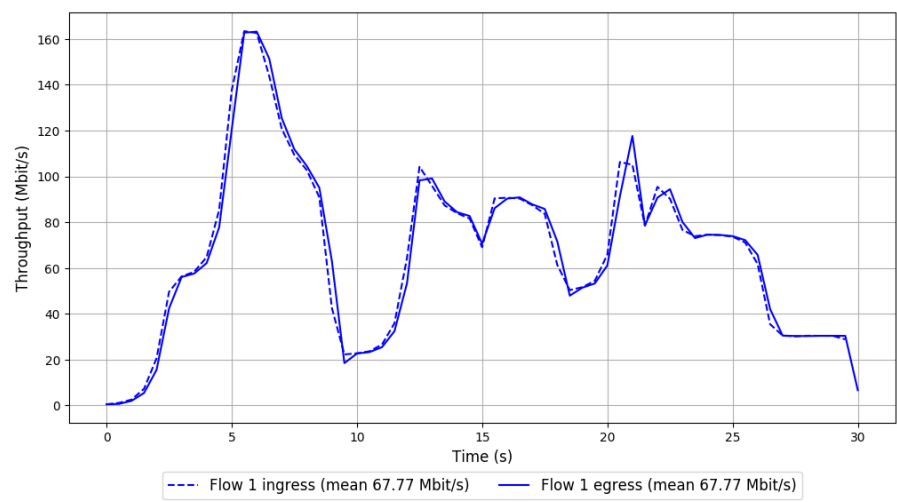
-- Flow 1:

Average throughput: 67.77 Mbit/s

95th percentile per-packet one-way delay: 136.229 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-27 14:54:43

End at: 2018-03-27 14:55:13

Below is generated by plot.py at 2018-03-27 19:48:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 765.71 Mbit/s

95th percentile per-packet one-way delay: 218.793 ms

Loss rate: 8.45%

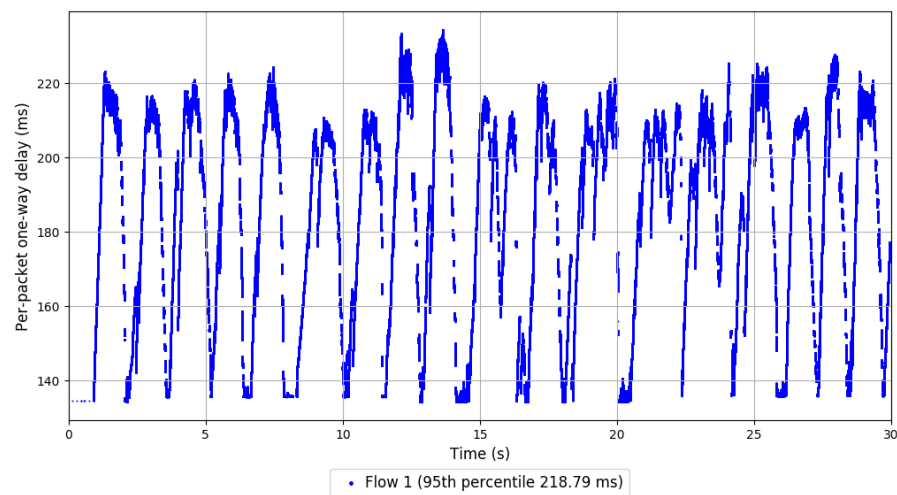
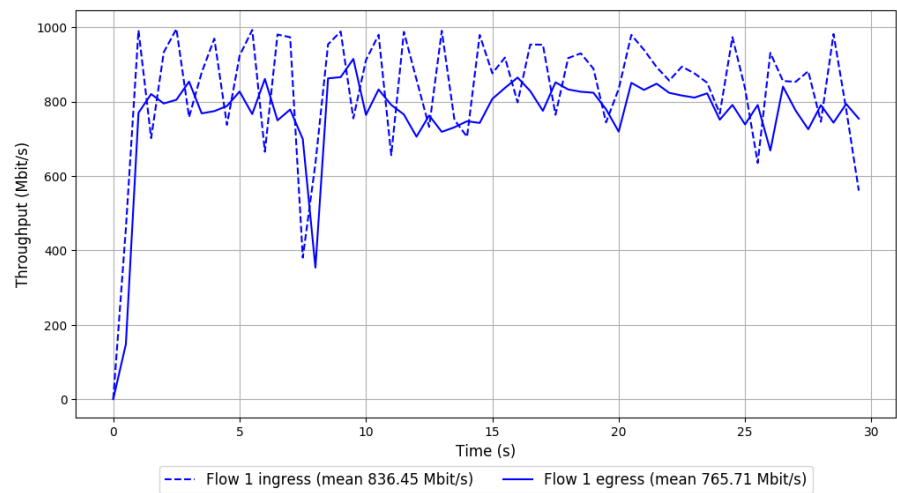
-- Flow 1:

Average throughput: 765.71 Mbit/s

95th percentile per-packet one-way delay: 218.793 ms

Loss rate: 8.45%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-27 15:10:27

End at: 2018-03-27 15:10:57

Below is generated by plot.py at 2018-03-27 19:48:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 788.06 Mbit/s

95th percentile per-packet one-way delay: 219.500 ms

Loss rate: 8.37%

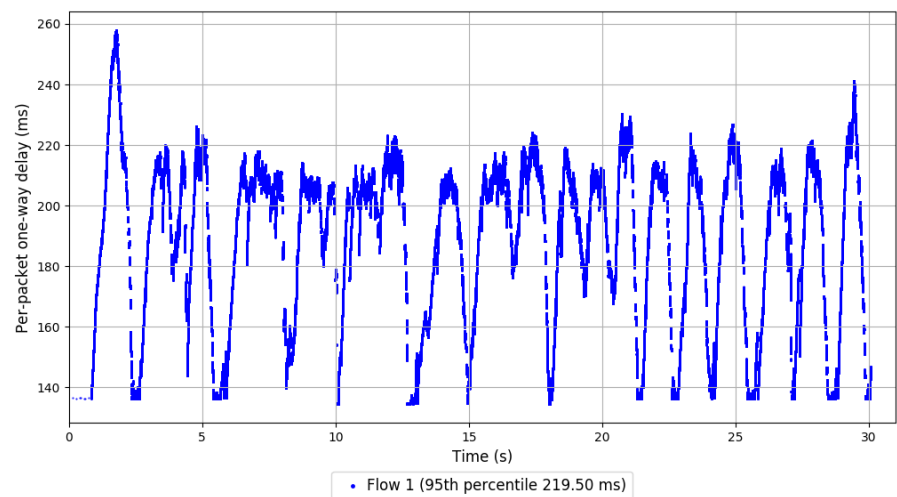
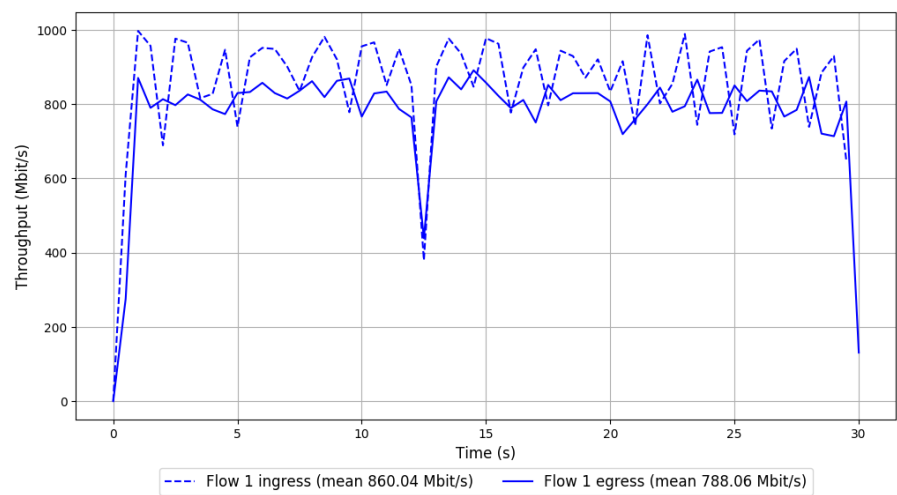
-- Flow 1:

Average throughput: 788.06 Mbit/s

95th percentile per-packet one-way delay: 219.500 ms

Loss rate: 8.37%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-27 15:25:57

End at: 2018-03-27 15:26:27

Below is generated by plot.py at 2018-03-27 19:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 794.26 Mbit/s

95th percentile per-packet one-way delay: 216.316 ms

Loss rate: 7.77%

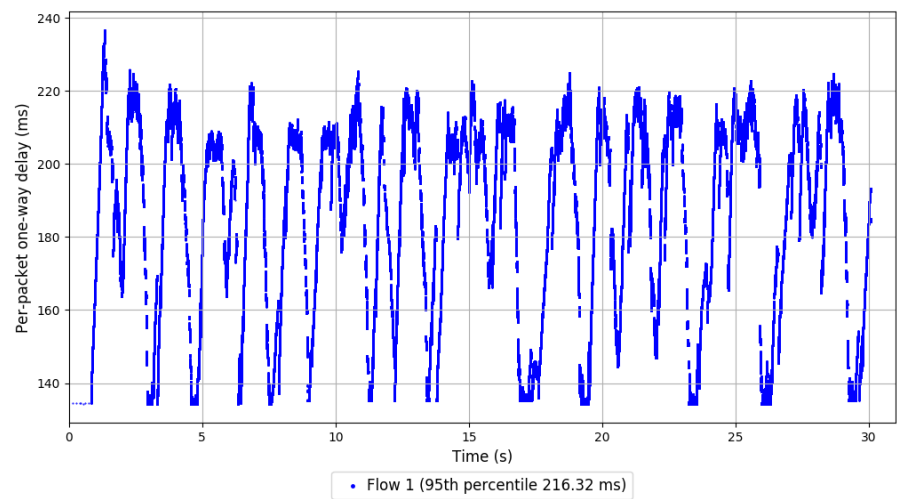
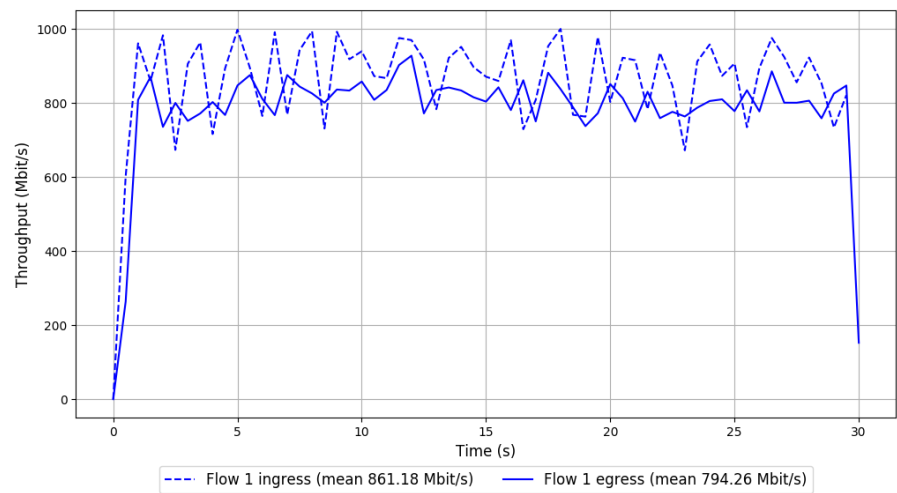
-- Flow 1:

Average throughput: 794.26 Mbit/s

95th percentile per-packet one-way delay: 216.316 ms

Loss rate: 7.77%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-27 15:41:56

End at: 2018-03-27 15:42:26

Below is generated by plot.py at 2018-03-27 19:50:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 827.00 Mbit/s

95th percentile per-packet one-way delay: 216.764 ms

Loss rate: 5.66%

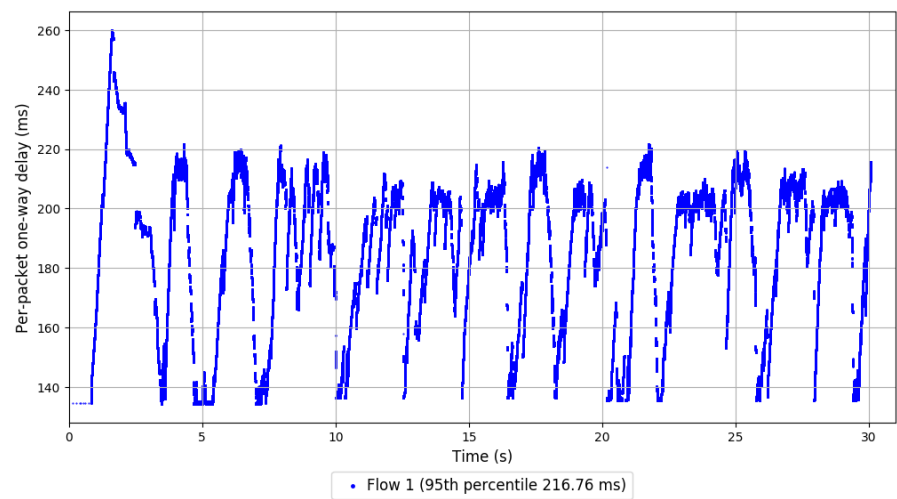
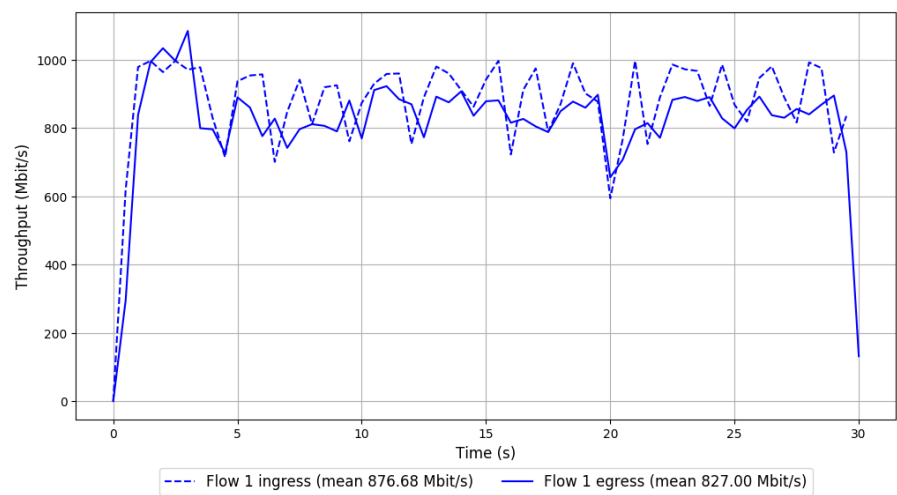
-- Flow 1:

Average throughput: 827.00 Mbit/s

95th percentile per-packet one-way delay: 216.764 ms

Loss rate: 5.66%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-27 15:58:03

End at: 2018-03-27 15:58:33

Below is generated by plot.py at 2018-03-27 19:50:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 795.06 Mbit/s

95th percentile per-packet one-way delay: 217.638 ms

Loss rate: 7.30%

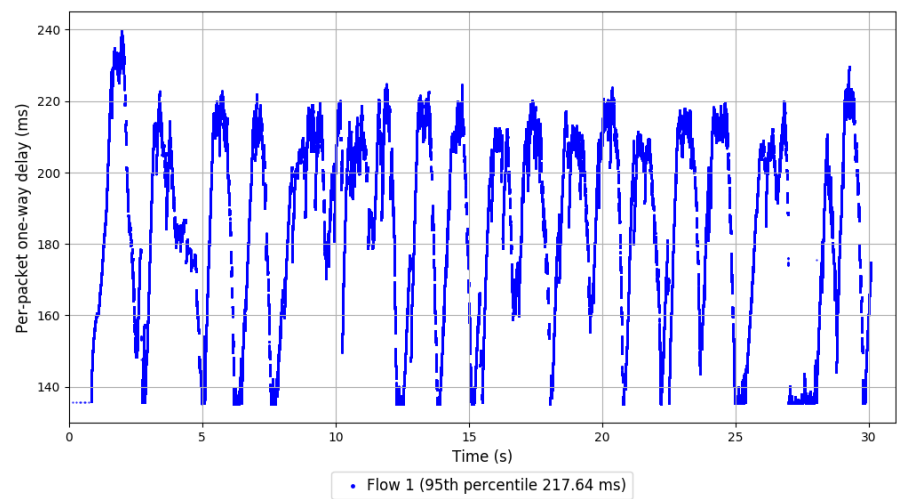
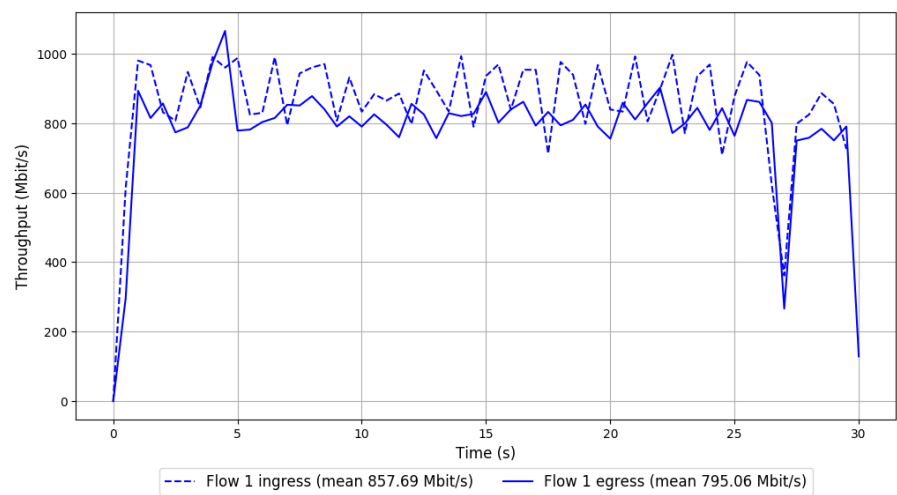
-- Flow 1:

Average throughput: 795.06 Mbit/s

95th percentile per-packet one-way delay: 217.638 ms

Loss rate: 7.30%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-27 16:13:29

End at: 2018-03-27 16:13:59

Below is generated by plot.py at 2018-03-27 19:50:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 744.52 Mbit/s

95th percentile per-packet one-way delay: 225.591 ms

Loss rate: 10.89%

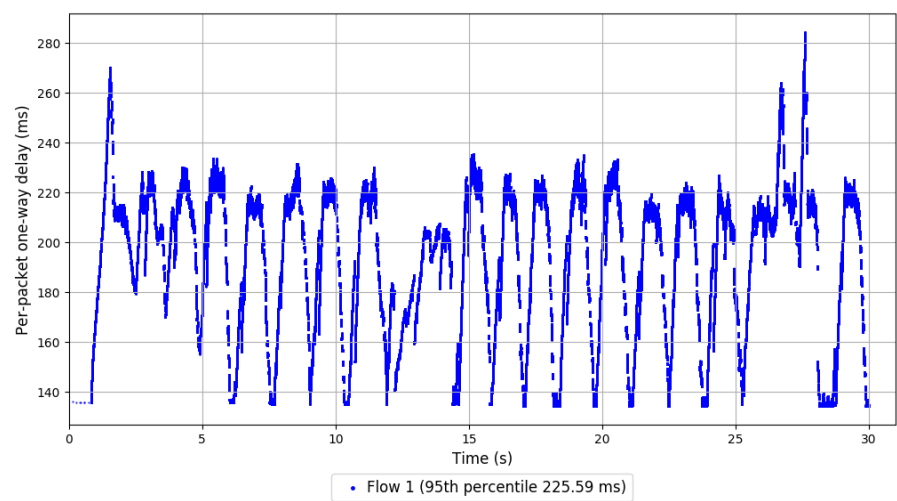
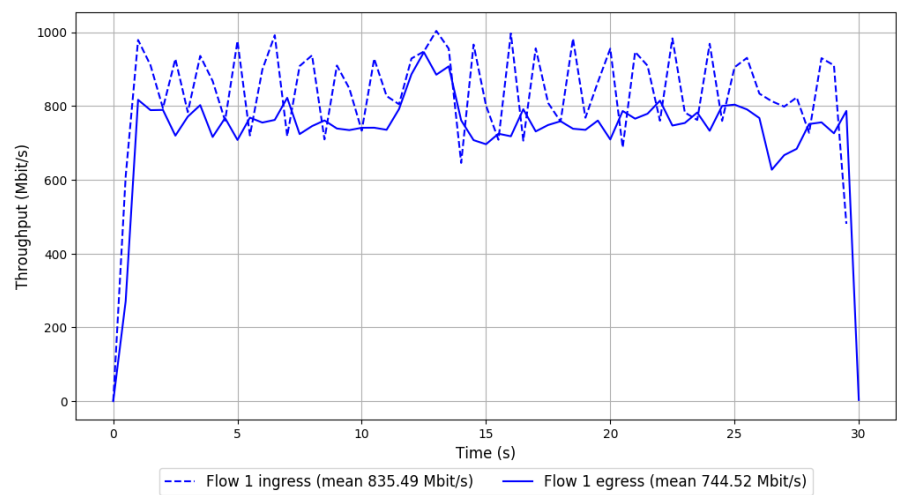
-- Flow 1:

Average throughput: 744.52 Mbit/s

95th percentile per-packet one-way delay: 225.591 ms

Loss rate: 10.89%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-27 16:29:24

End at: 2018-03-27 16:29:54

Below is generated by plot.py at 2018-03-27 19:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 768.74 Mbit/s

95th percentile per-packet one-way delay: 218.307 ms

Loss rate: 8.52%

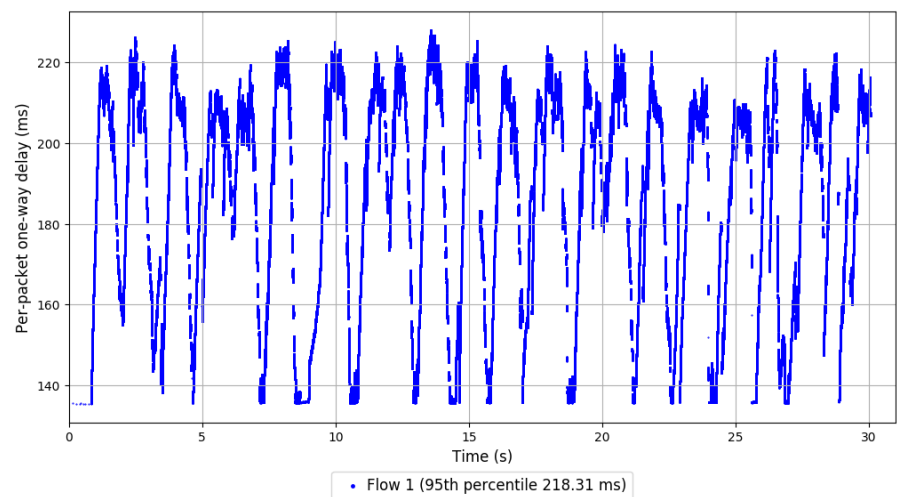
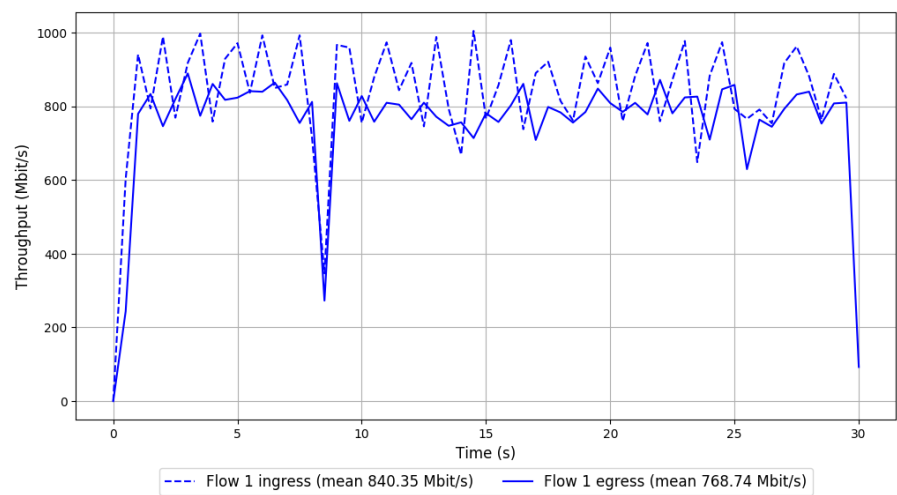
-- Flow 1:

Average throughput: 768.74 Mbit/s

95th percentile per-packet one-way delay: 218.307 ms

Loss rate: 8.52%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-27 16:45:16

End at: 2018-03-27 16:45:46

Below is generated by plot.py at 2018-03-27 19:50:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 757.51 Mbit/s

95th percentile per-packet one-way delay: 220.996 ms

Loss rate: 8.76%

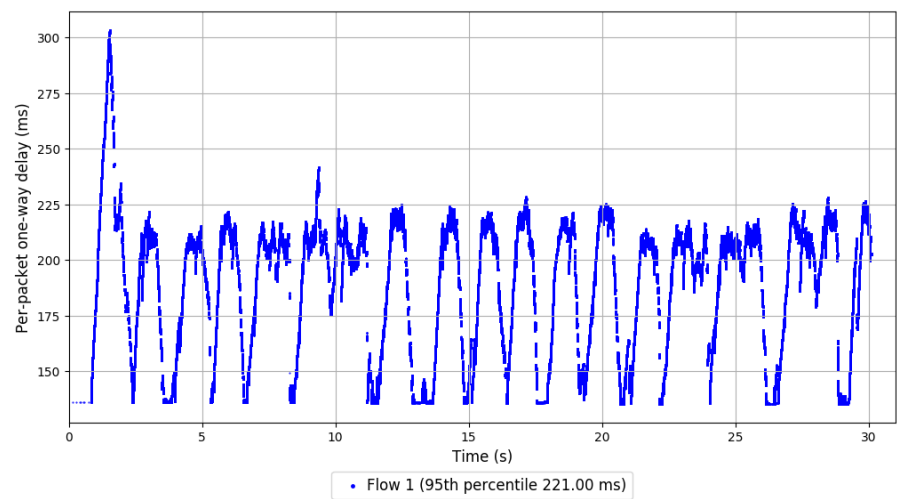
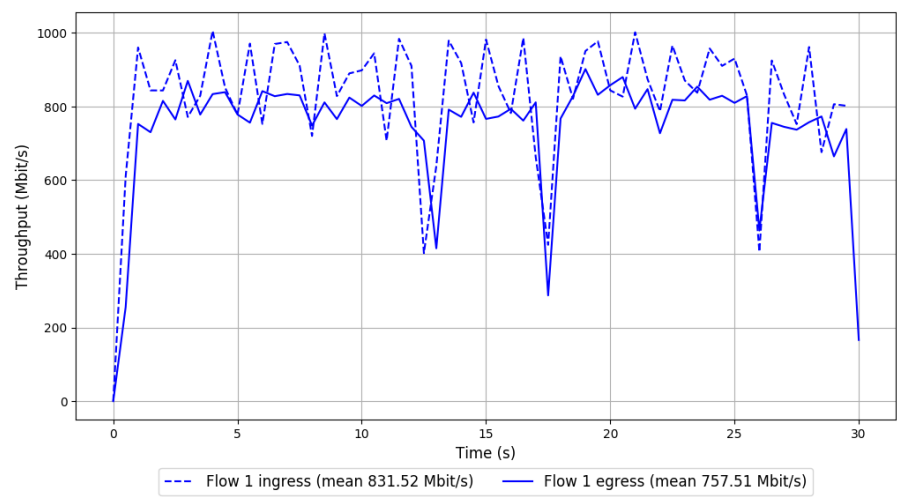
-- Flow 1:

Average throughput: 757.51 Mbit/s

95th percentile per-packet one-way delay: 220.996 ms

Loss rate: 8.76%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-27 17:00:43

End at: 2018-03-27 17:01:13

Below is generated by plot.py at 2018-03-27 20:07:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.41 Mbit/s

95th percentile per-packet one-way delay: 224.195 ms

Loss rate: 9.83%

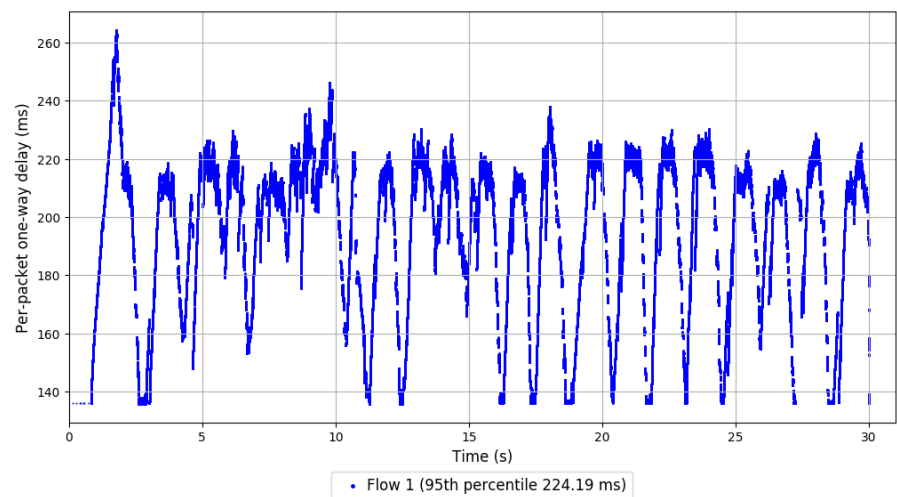
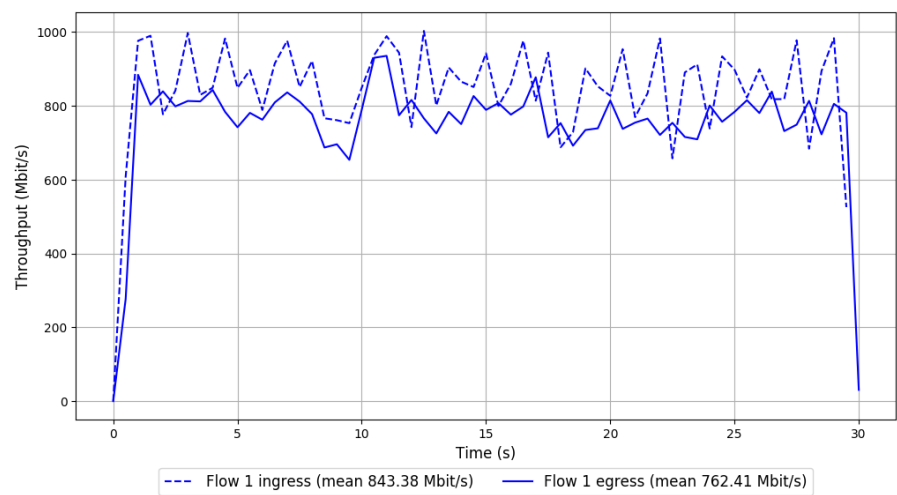
-- Flow 1:

Average throughput: 762.41 Mbit/s

95th percentile per-packet one-way delay: 224.195 ms

Loss rate: 9.83%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-27 17:16:28

End at: 2018-03-27 17:16:58

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 791.69 Mbit/s

95th percentile per-packet one-way delay: 225.935 ms

Loss rate: 7.57%

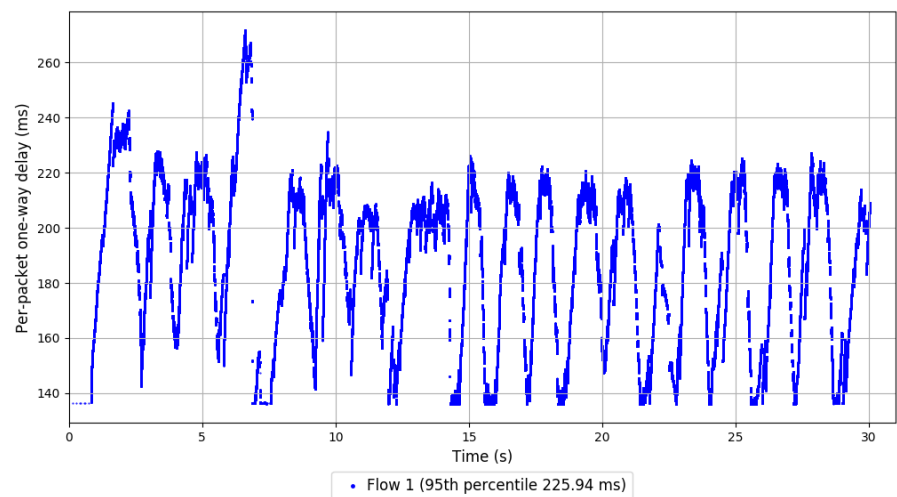
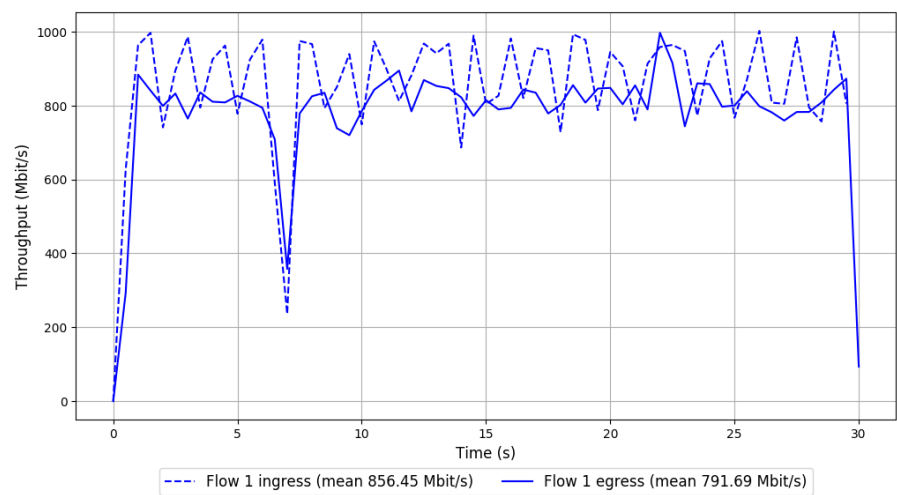
-- Flow 1:

Average throughput: 791.69 Mbit/s

95th percentile per-packet one-way delay: 225.935 ms

Loss rate: 7.57%

Run 10: Report of FillP — Data Link

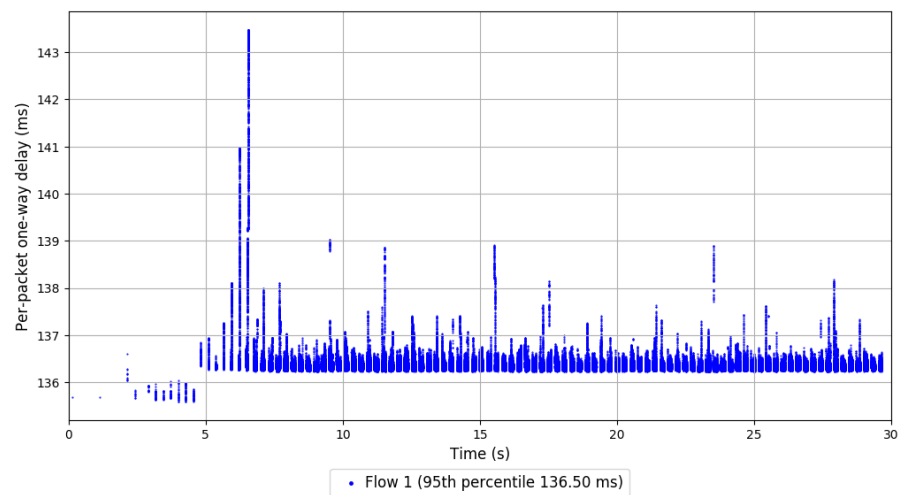
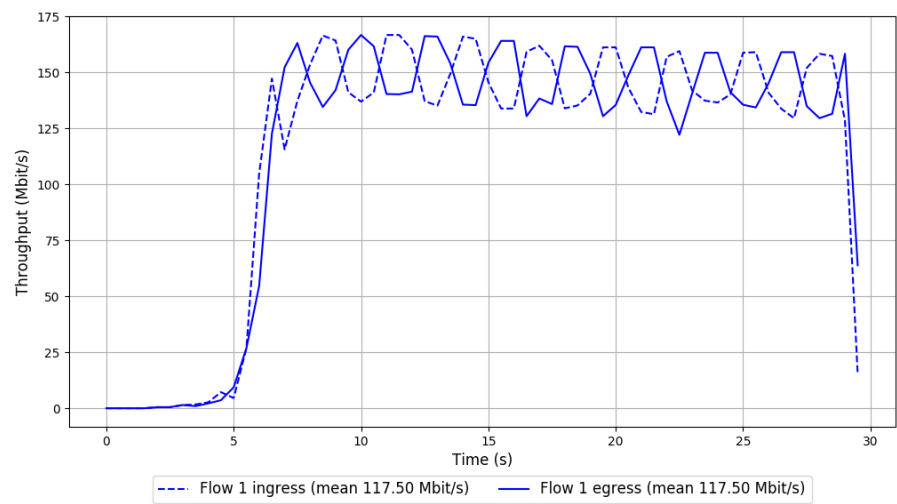


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-27 14:52:01
End at: 2018-03-27 14:52:31

# Below is generated by plot.py at 2018-03-27 20:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 117.50 Mbit/s
95th percentile per-packet one-way delay: 136.505 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 117.50 Mbit/s
95th percentile per-packet one-way delay: 136.505 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-1-32 — Data Link

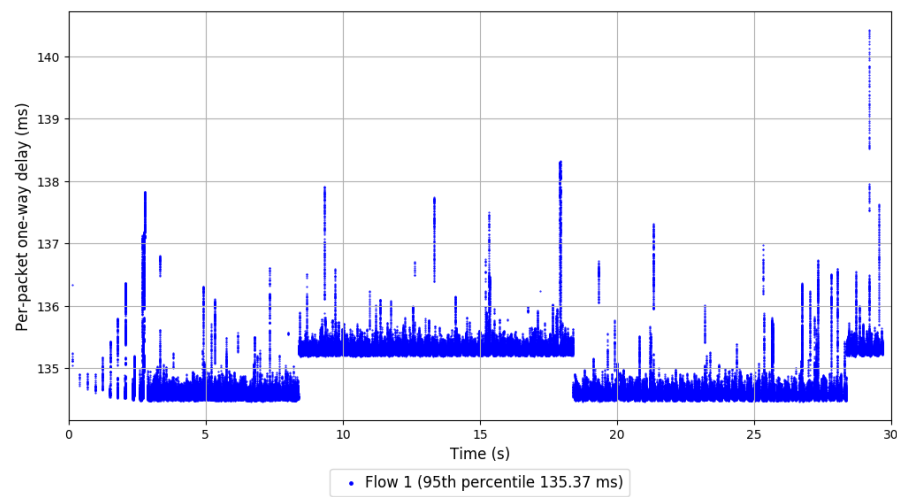
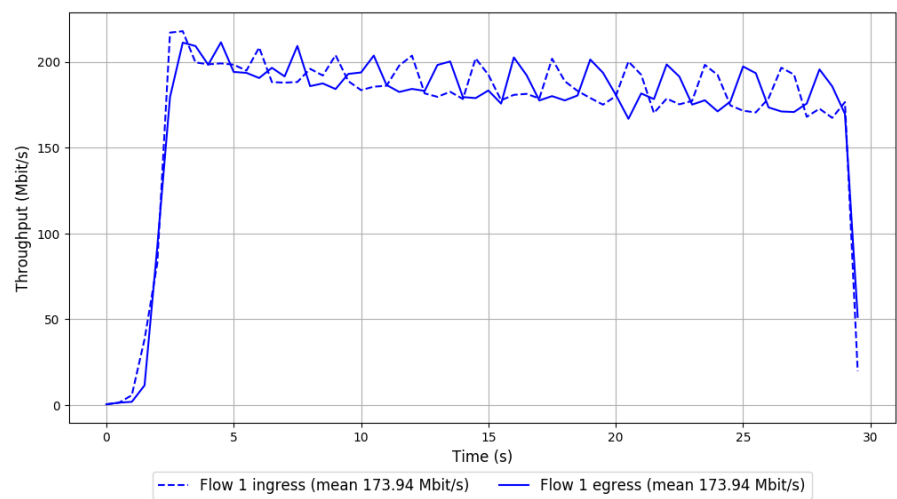


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-27 15:07:37
End at: 2018-03-27 15:08:07

# Below is generated by plot.py at 2018-03-27 20:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.94 Mbit/s
95th percentile per-packet one-way delay: 135.373 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.94 Mbit/s
95th percentile per-packet one-way delay: 135.373 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-27 15:23:15

End at: 2018-03-27 15:23:45

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.97 Mbit/s

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

Loss rate: 0.00%

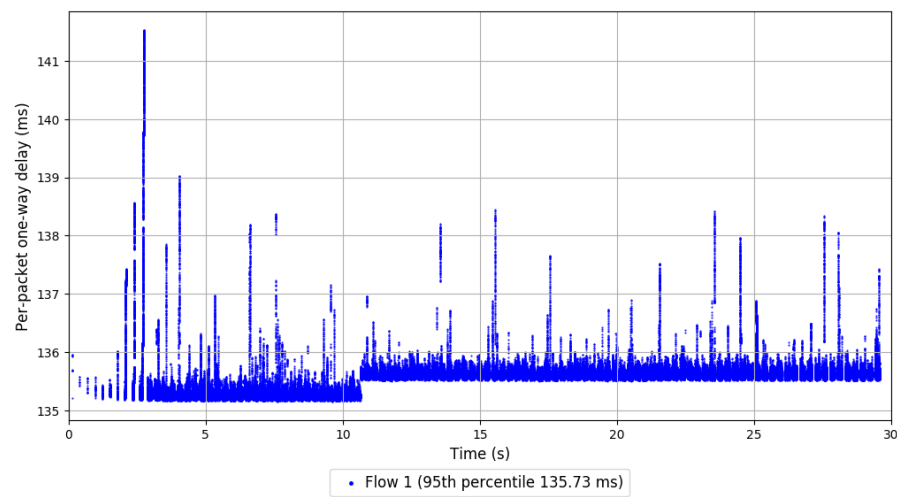
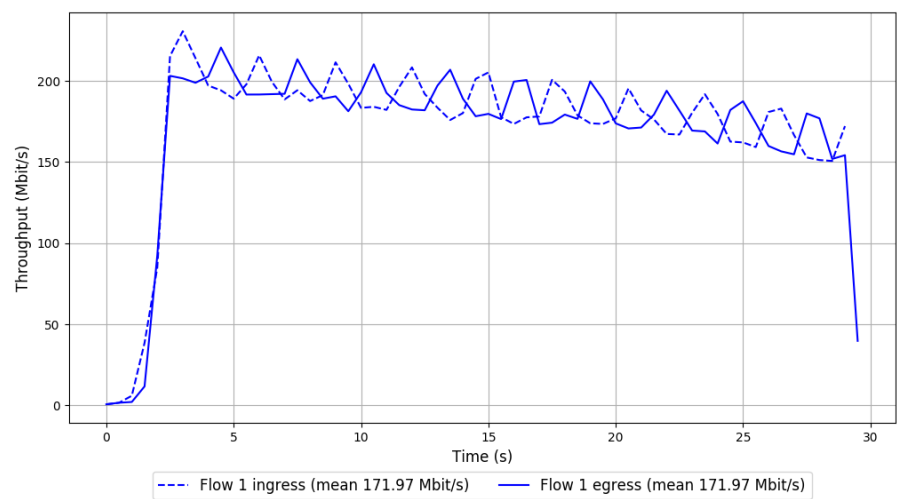
-- Flow 1:

Average throughput: 171.97 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-27 15:39:16

End at: 2018-03-27 15:39:46

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.85 Mbit/s

95th percentile per-packet one-way delay: 136.248 ms

Loss rate: 0.00%

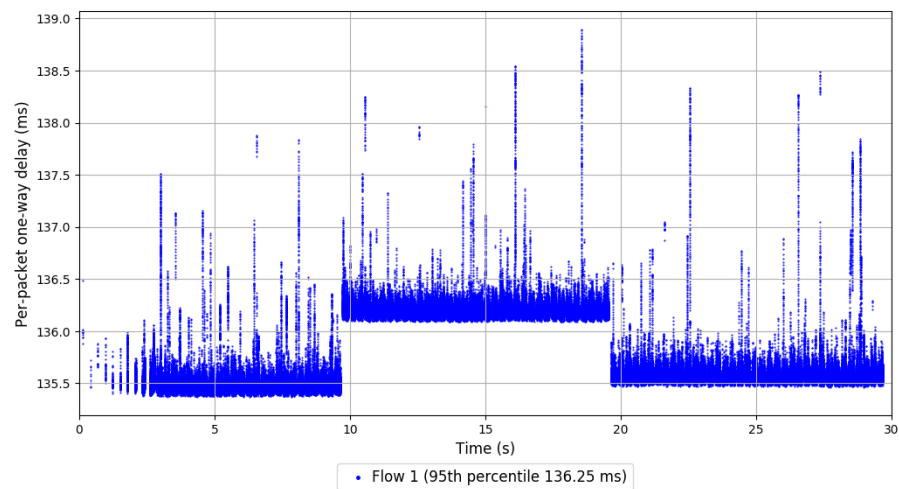
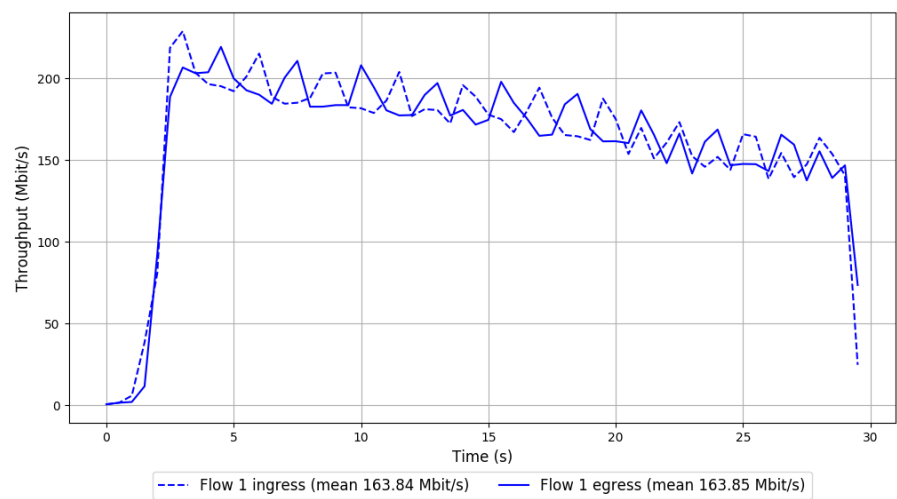
-- Flow 1:

Average throughput: 163.85 Mbit/s

95th percentile per-packet one-way delay: 136.248 ms

Loss rate: 0.00%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-27 15:55:19

End at: 2018-03-27 15:55:49

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.56 Mbit/s

95th percentile per-packet one-way delay: 136.336 ms

Loss rate: 0.00%

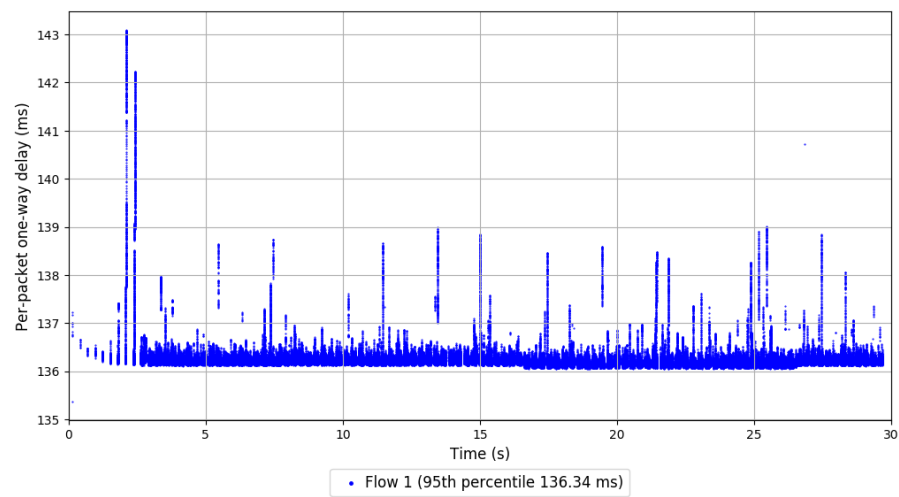
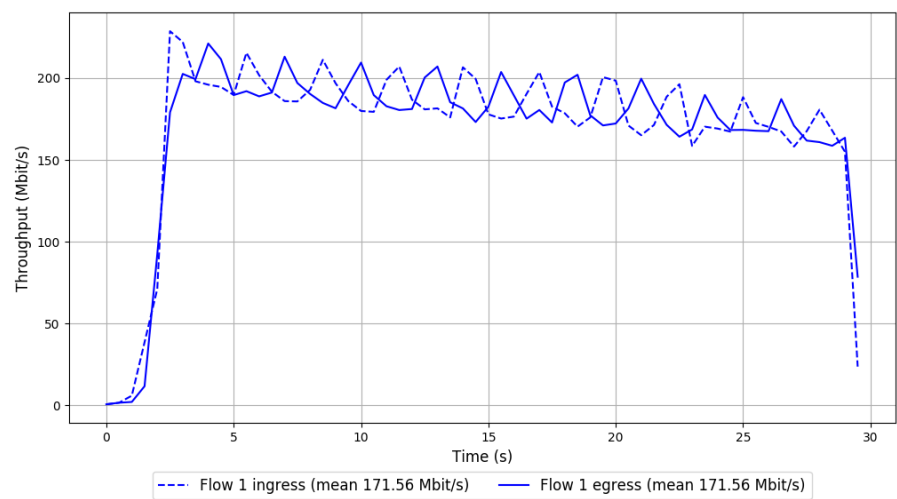
-- Flow 1:

Average throughput: 171.56 Mbit/s

95th percentile per-packet one-way delay: 136.336 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-27 16:10:45

End at: 2018-03-27 16:11:15

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.73 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.00%

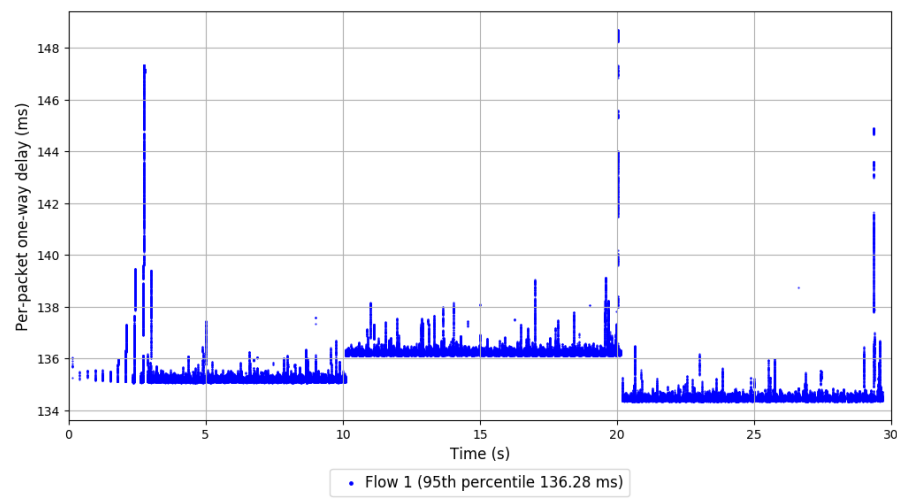
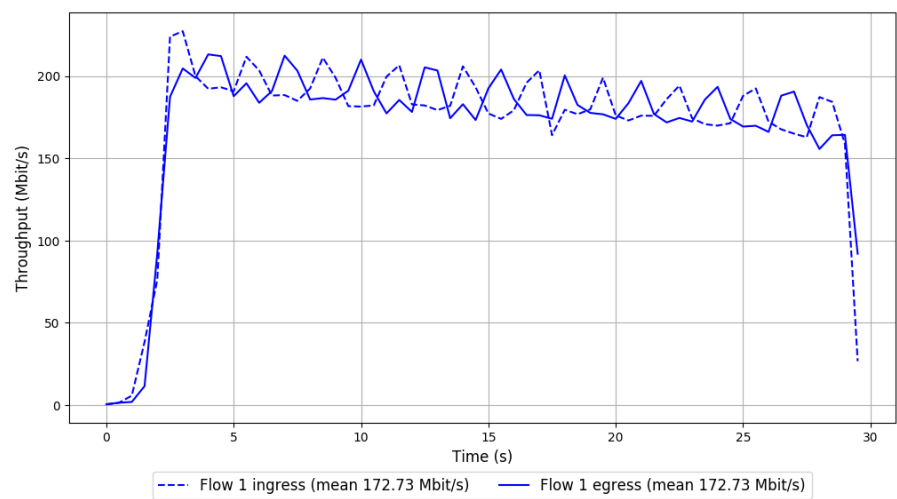
-- Flow 1:

Average throughput: 172.73 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-27 16:26:44

End at: 2018-03-27 16:27:14

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.45 Mbit/s

95th percentile per-packet one-way delay: 135.494 ms

Loss rate: 0.00%

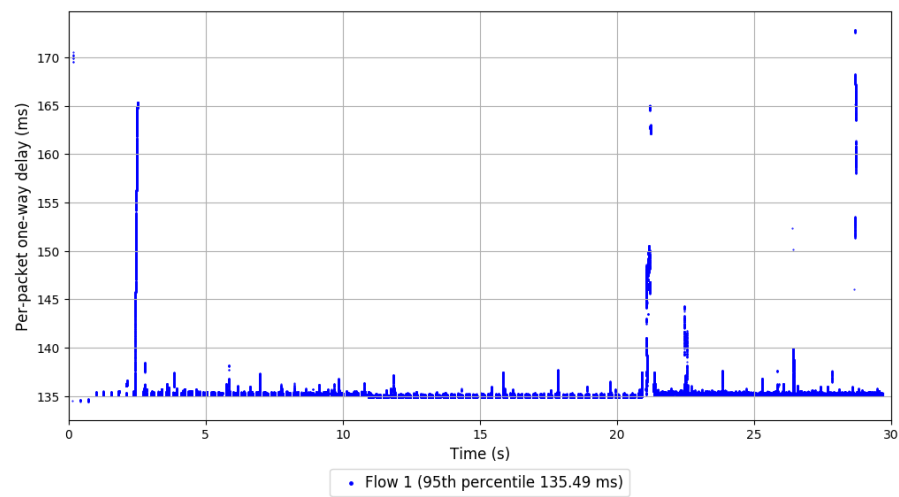
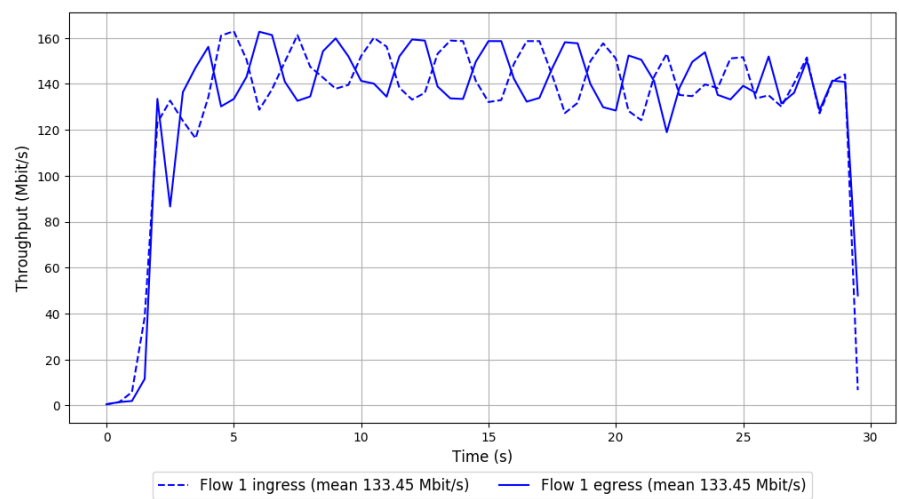
-- Flow 1:

Average throughput: 133.45 Mbit/s

95th percentile per-packet one-way delay: 135.494 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-27 16:42:28

End at: 2018-03-27 16:42:58

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.07 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 0.00%

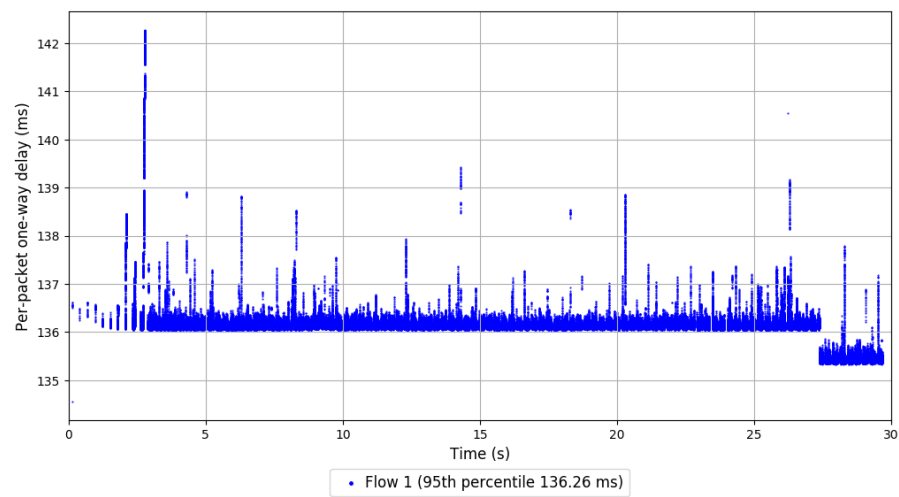
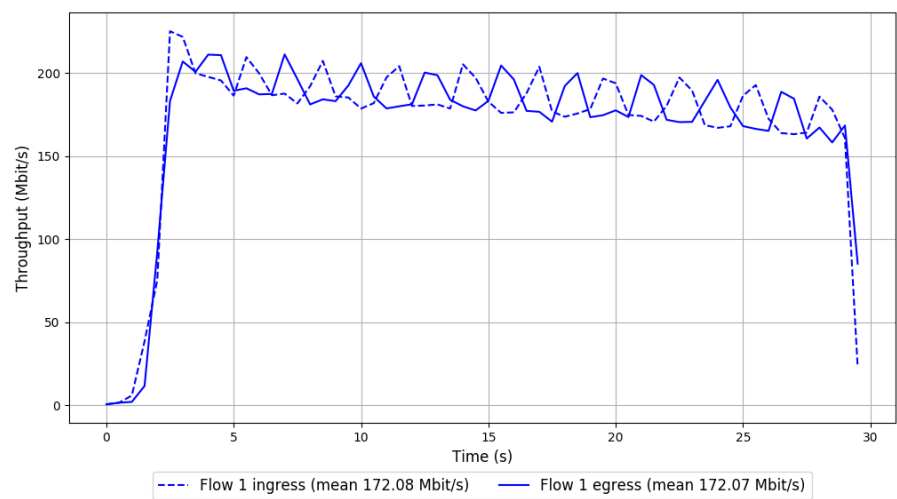
-- Flow 1:

Average throughput: 172.07 Mbit/s

95th percentile per-packet one-way delay: 136.263 ms

Loss rate: 0.00%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-27 16:58:07

End at: 2018-03-27 16:58:37

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.85 Mbit/s

95th percentile per-packet one-way delay: 136.275 ms

Loss rate: 0.01%

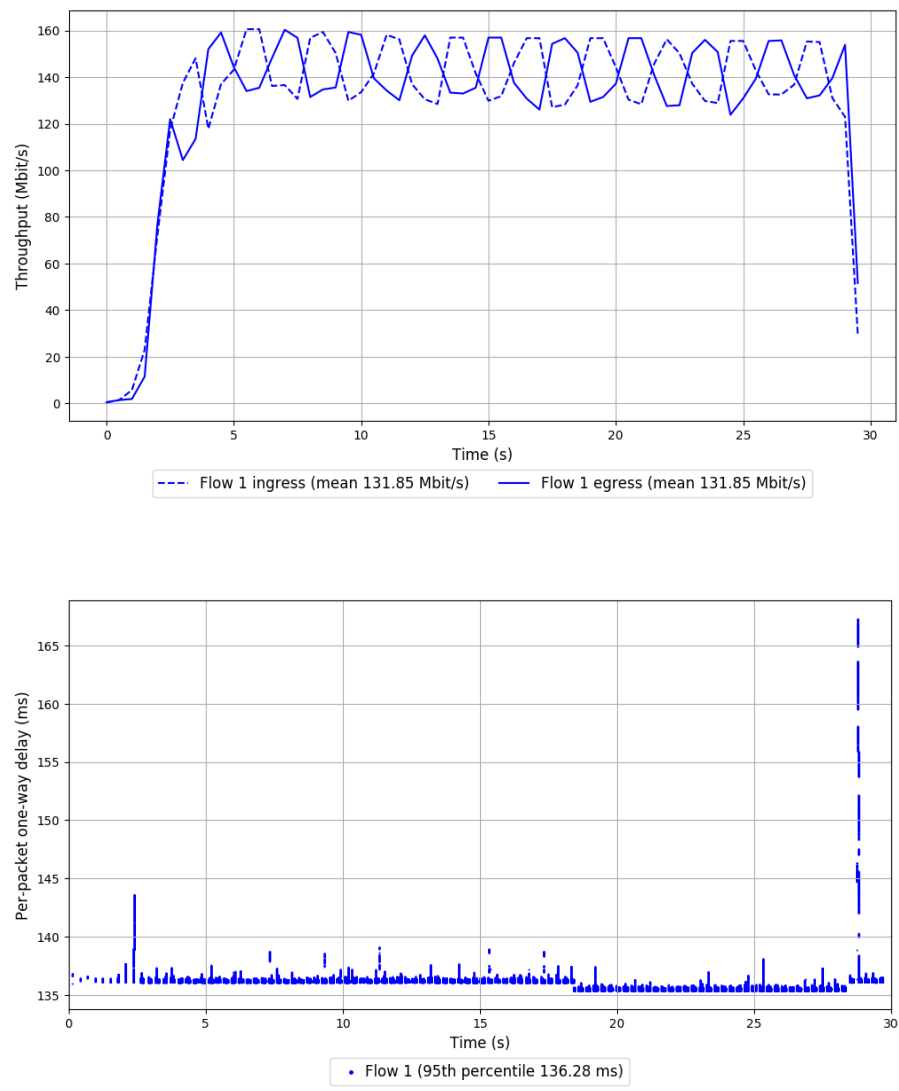
-- Flow 1:

Average throughput: 131.85 Mbit/s

95th percentile per-packet one-way delay: 136.275 ms

Loss rate: 0.01%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-27 17:13:42

End at: 2018-03-27 17:14:12

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.56 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.00%

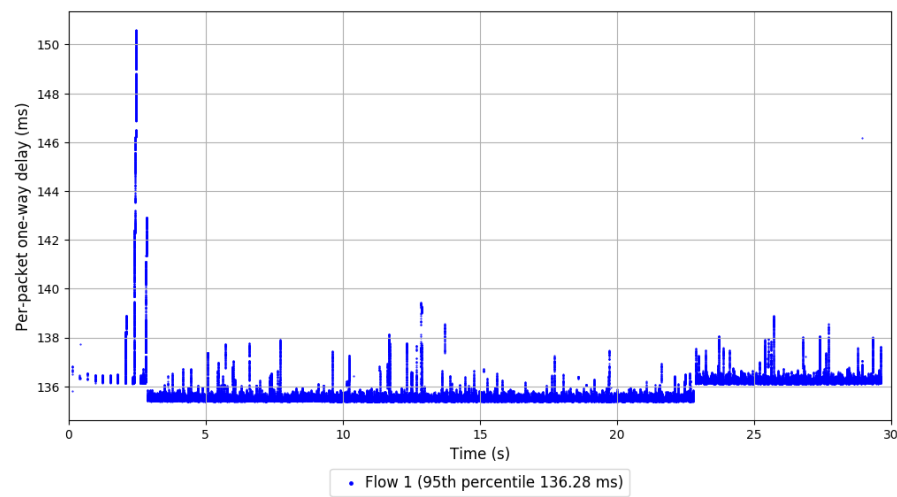
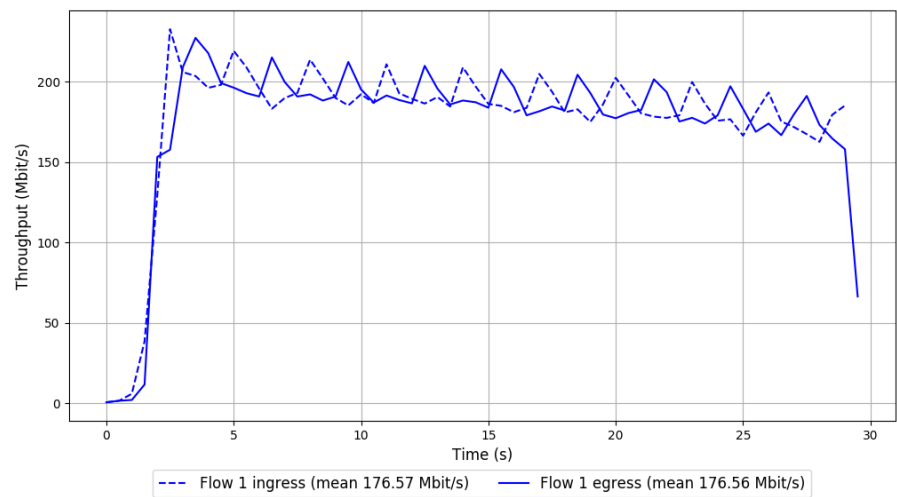
-- Flow 1:

Average throughput: 176.56 Mbit/s

95th percentile per-packet one-way delay: 136.284 ms

Loss rate: 0.00%

Run 10: Report of Indigo-1-32 — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-03-27 14:49:06

End at: 2018-03-27 14:49:36

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.70 Mbit/s

95th percentile per-packet one-way delay: 135.717 ms

Loss rate: 0.00%

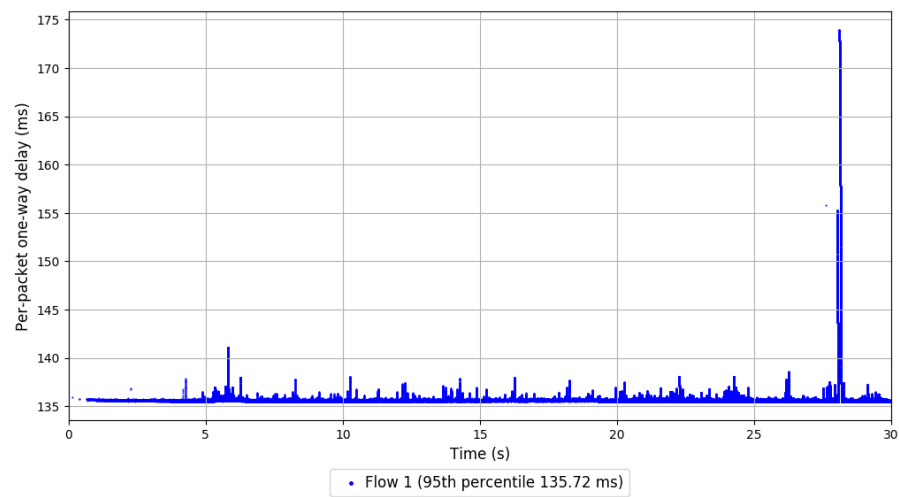
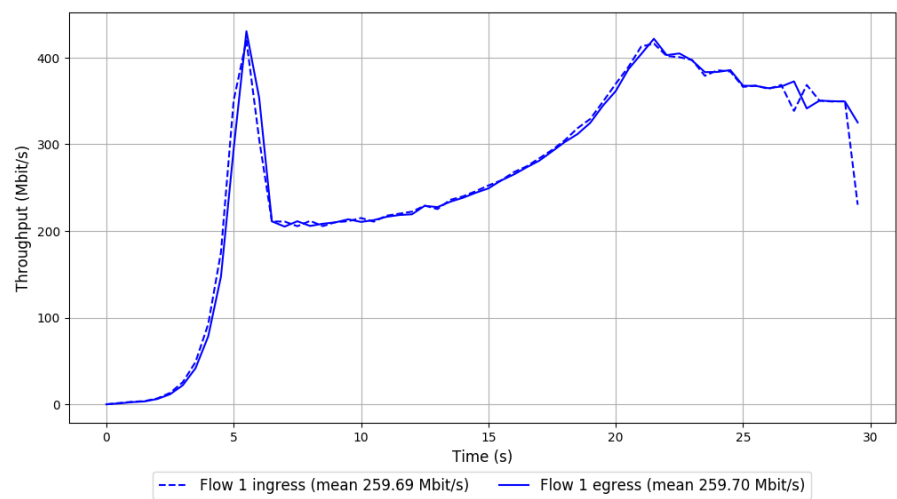
-- Flow 1:

Average throughput: 259.70 Mbit/s

95th percentile per-packet one-way delay: 135.717 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-27 15:04:36

End at: 2018-03-27 15:05:07

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.13 Mbit/s

95th percentile per-packet one-way delay: 138.499 ms

Loss rate: 0.00%

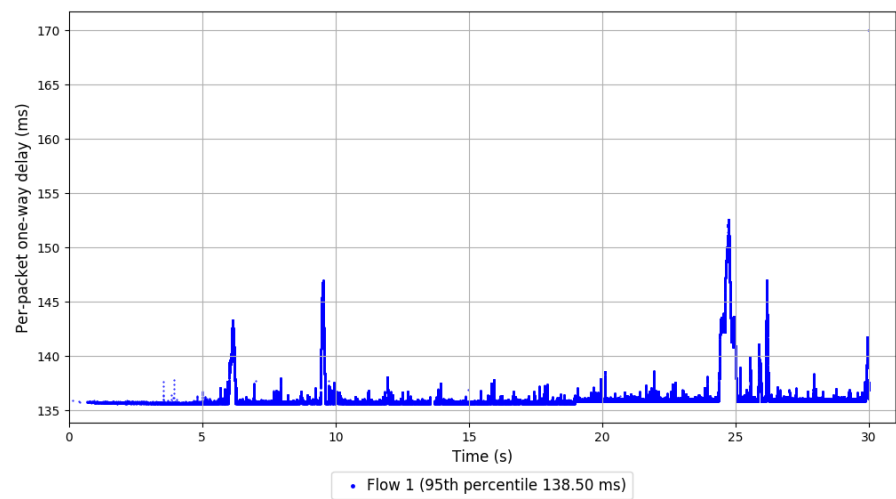
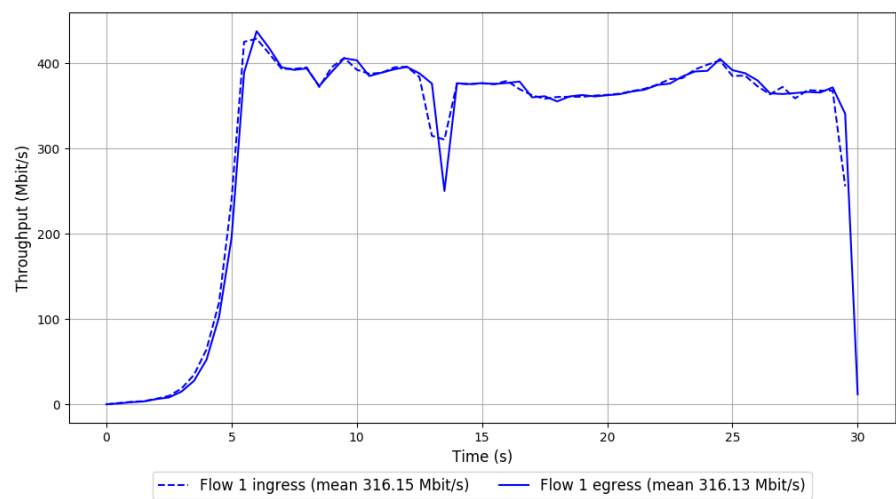
-- Flow 1:

Average throughput: 316.13 Mbit/s

95th percentile per-packet one-way delay: 138.499 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-27 15:20:16

End at: 2018-03-27 15:20:46

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.02 Mbit/s

95th percentile per-packet one-way delay: 135.384 ms

Loss rate: 0.00%

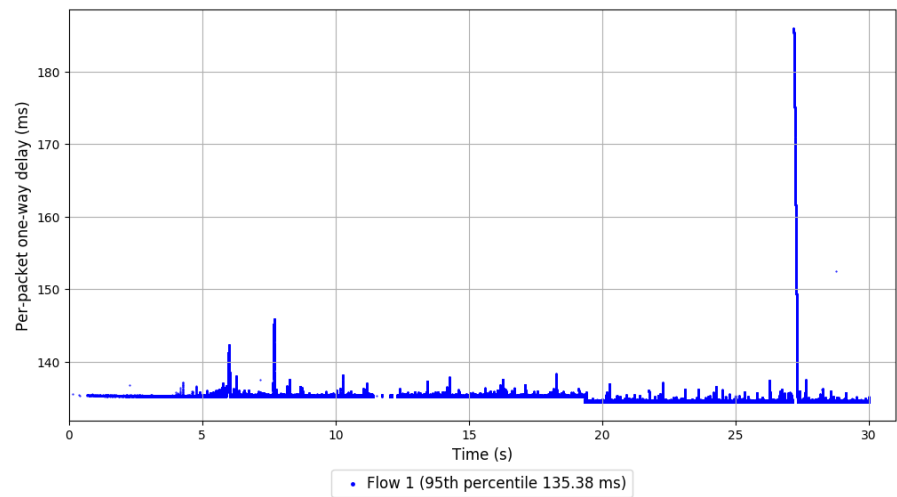
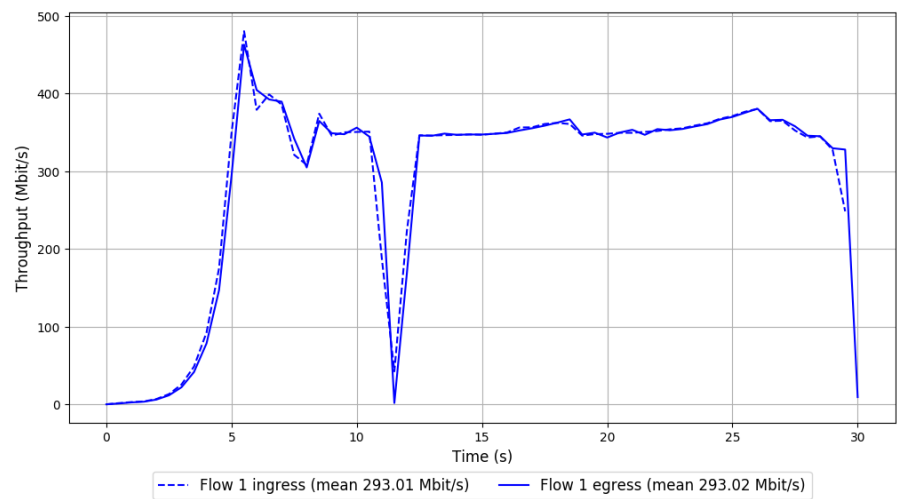
-- Flow 1:

Average throughput: 293.02 Mbit/s

95th percentile per-packet one-way delay: 135.384 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-27 15:36:20

End at: 2018-03-27 15:36:50

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.00 Mbit/s

95th percentile per-packet one-way delay: 135.259 ms

Loss rate: 0.00%

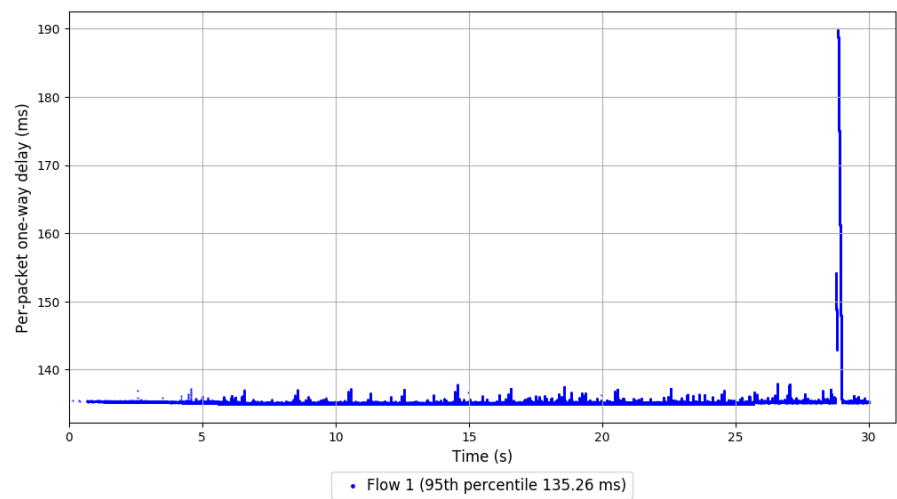
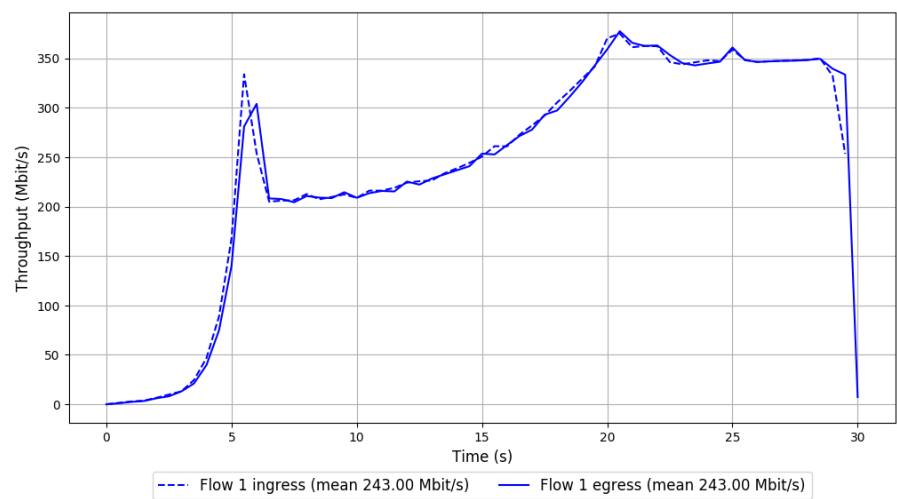
-- Flow 1:

Average throughput: 243.00 Mbit/s

95th percentile per-packet one-way delay: 135.259 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-27 15:52:19

End at: 2018-03-27 15:52:49

Below is generated by plot.py at 2018-03-27 20:07:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.15 Mbit/s

95th percentile per-packet one-way delay: 136.218 ms

Loss rate: 0.00%

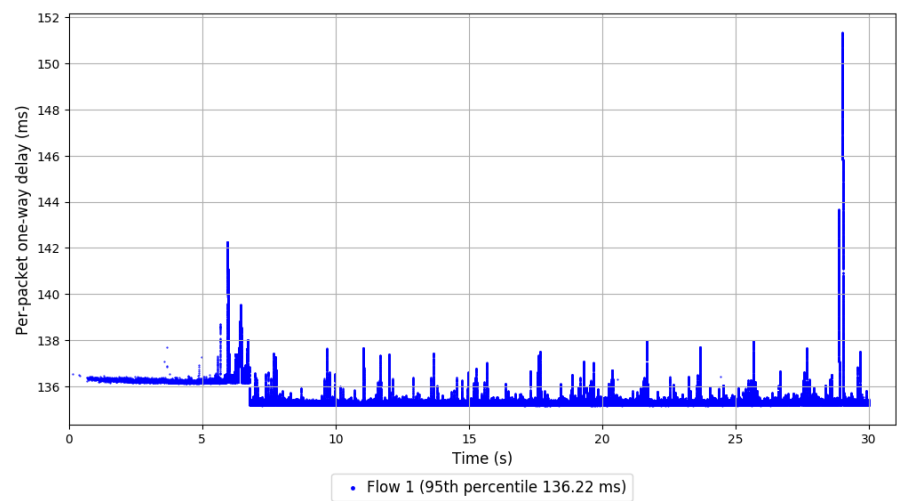
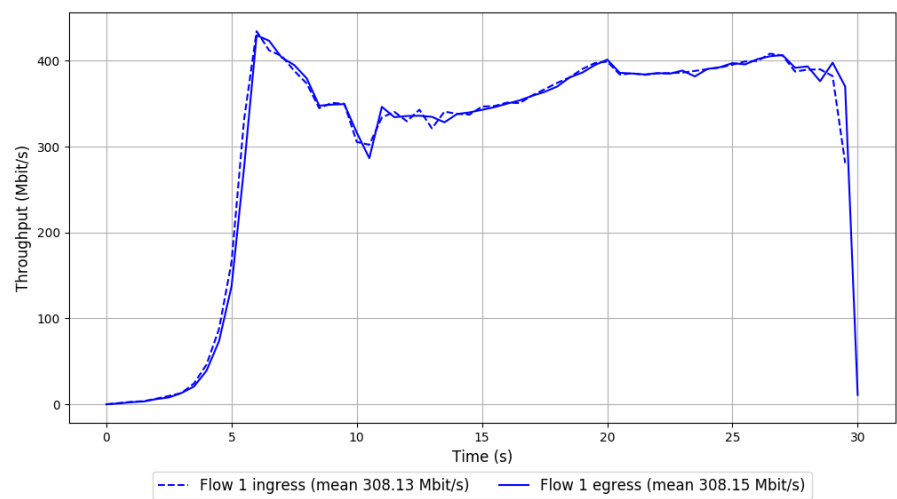
-- Flow 1:

Average throughput: 308.15 Mbit/s

95th percentile per-packet one-way delay: 136.218 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-27 16:07:48

End at: 2018-03-27 16:08:18

Below is generated by plot.py at 2018-03-27 20:07:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.00 Mbit/s

95th percentile per-packet one-way delay: 136.196 ms

Loss rate: 0.00%

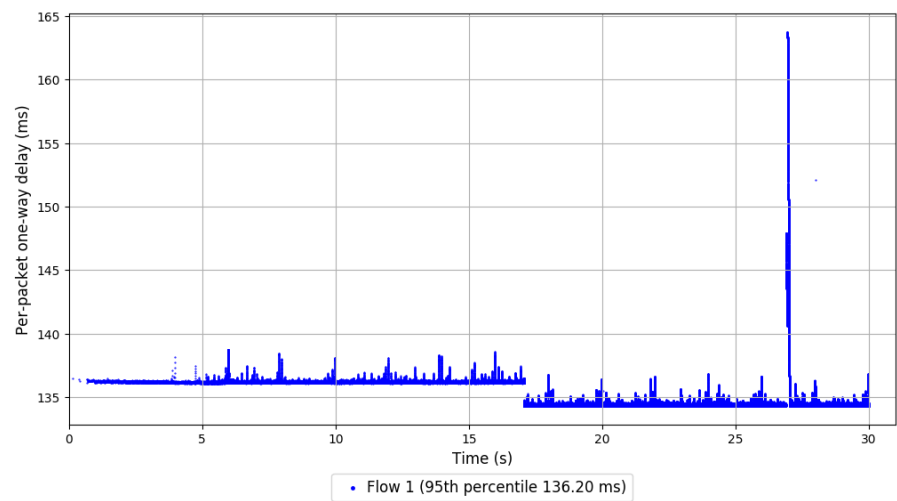
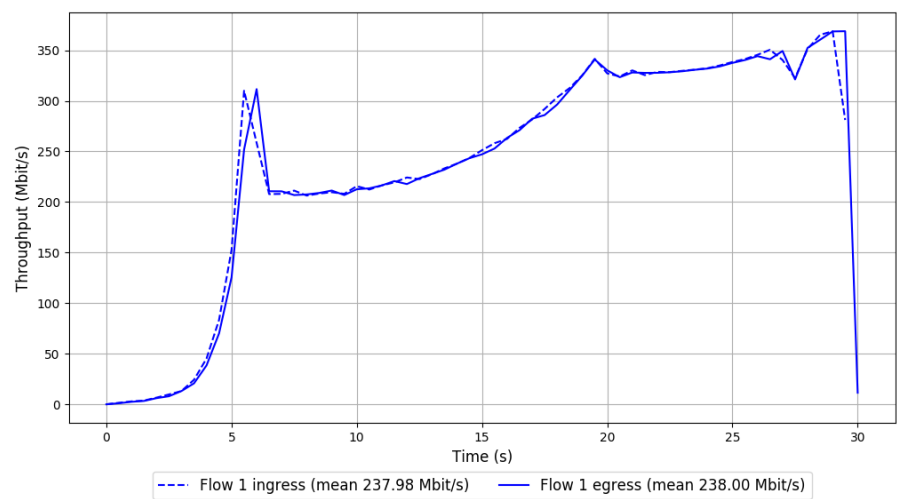
-- Flow 1:

Average throughput: 238.00 Mbit/s

95th percentile per-packet one-way delay: 136.196 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-27 16:23:42

End at: 2018-03-27 16:24:12

Below is generated by plot.py at 2018-03-27 20:07:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.66 Mbit/s

95th percentile per-packet one-way delay: 166.648 ms

Loss rate: 0.42%

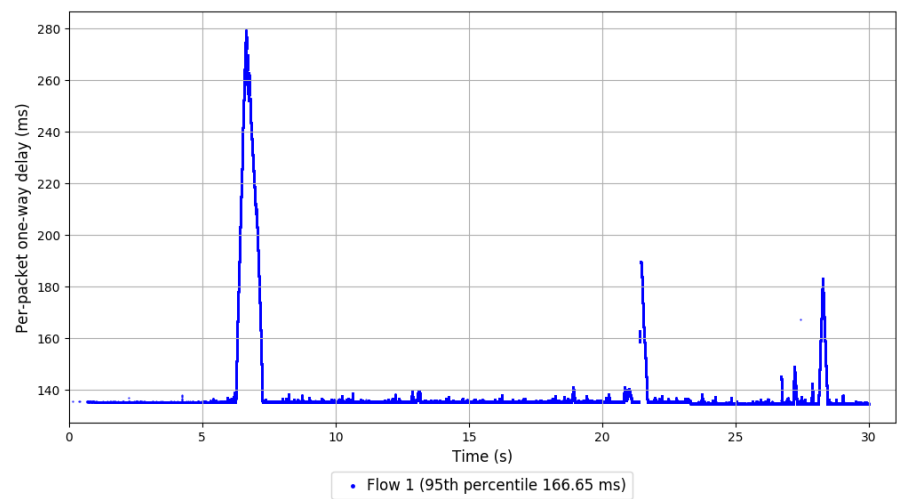
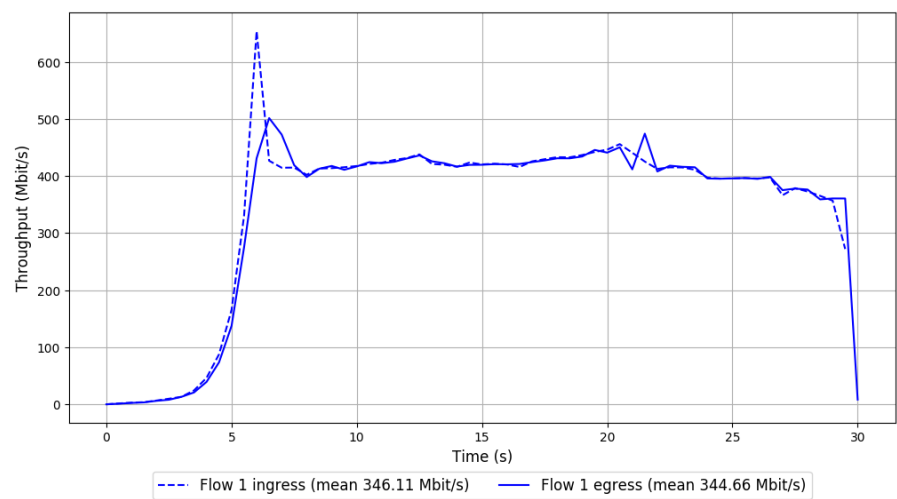
-- Flow 1:

Average throughput: 344.66 Mbit/s

95th percentile per-packet one-way delay: 166.648 ms

Loss rate: 0.42%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-27 16:39:26

End at: 2018-03-27 16:39:56

Below is generated by plot.py at 2018-03-27 20:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.80 Mbit/s

95th percentile per-packet one-way delay: 136.349 ms

Loss rate: 0.00%

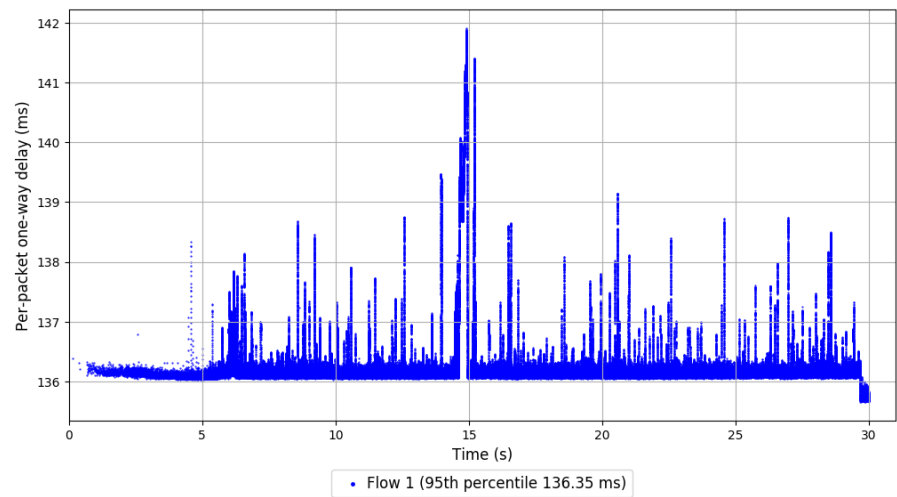
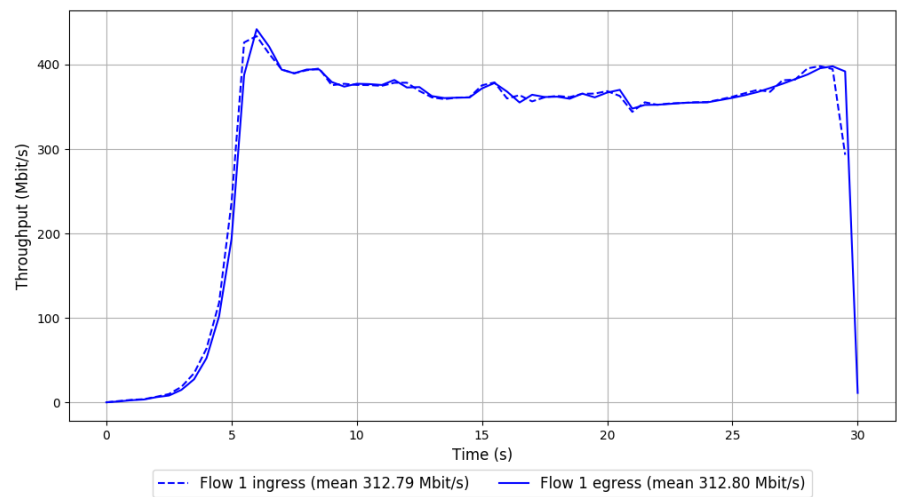
-- Flow 1:

Average throughput: 312.80 Mbit/s

95th percentile per-packet one-way delay: 136.349 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-27 16:55:13

End at: 2018-03-27 16:55:43

Below is generated by plot.py at 2018-03-27 20:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.44 Mbit/s

95th percentile per-packet one-way delay: 136.175 ms

Loss rate: 0.00%

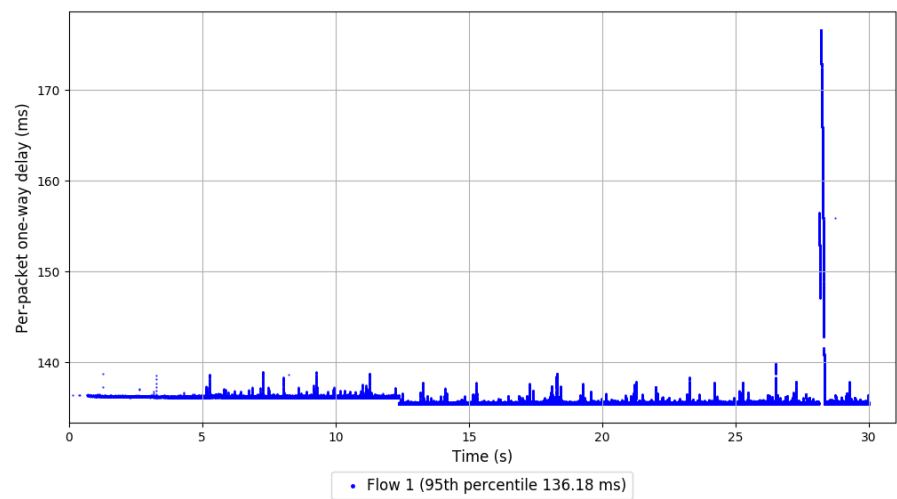
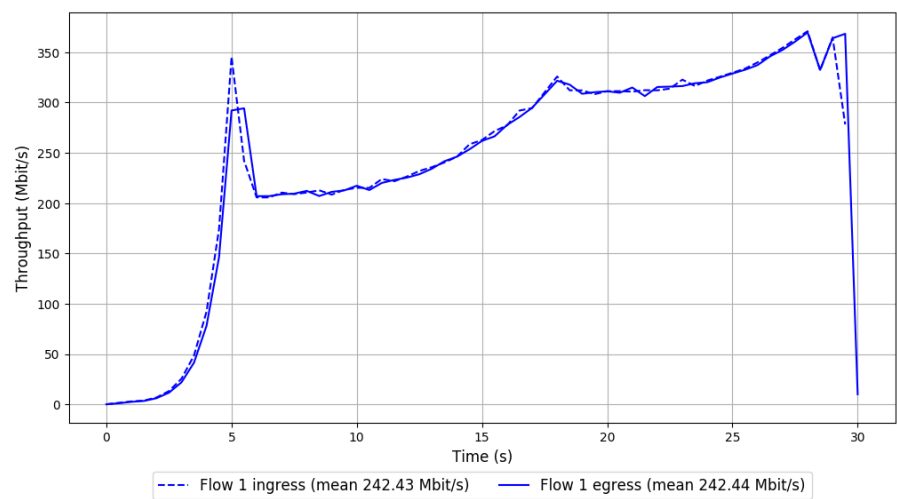
-- Flow 1:

Average throughput: 242.44 Mbit/s

95th percentile per-packet one-way delay: 136.175 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-27 17:10:54

End at: 2018-03-27 17:11:24

Below is generated by plot.py at 2018-03-27 20:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.04 Mbit/s

95th percentile per-packet one-way delay: 135.505 ms

Loss rate: 0.00%

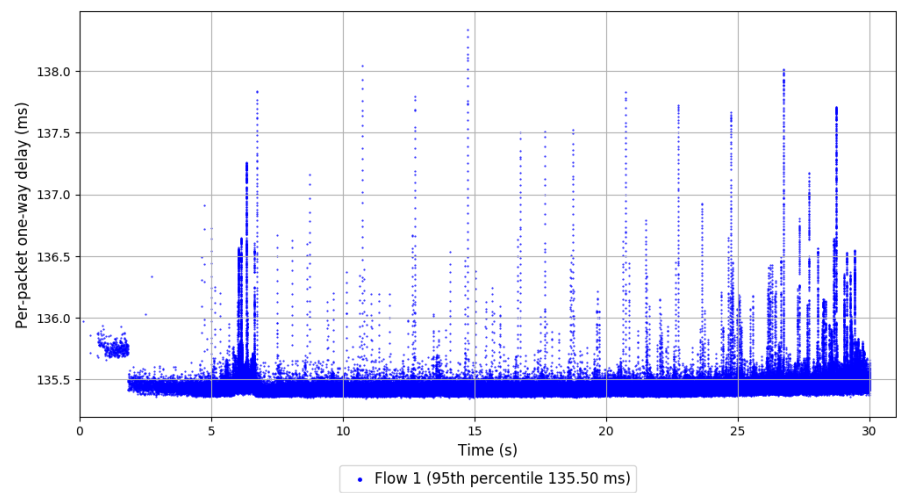
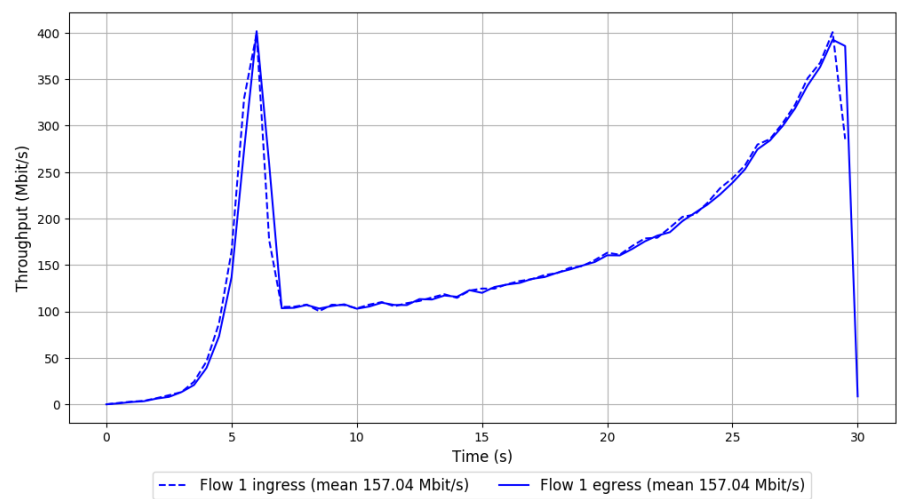
-- Flow 1:

Average throughput: 157.04 Mbit/s

95th percentile per-packet one-way delay: 135.505 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

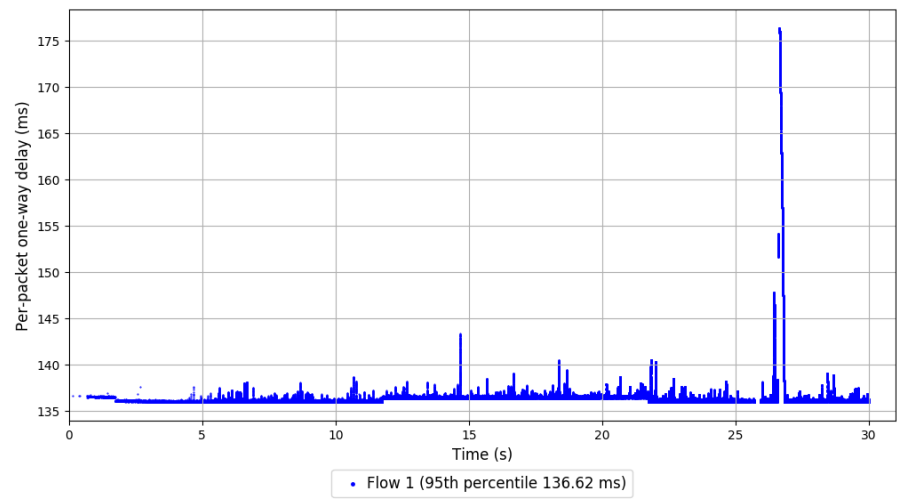
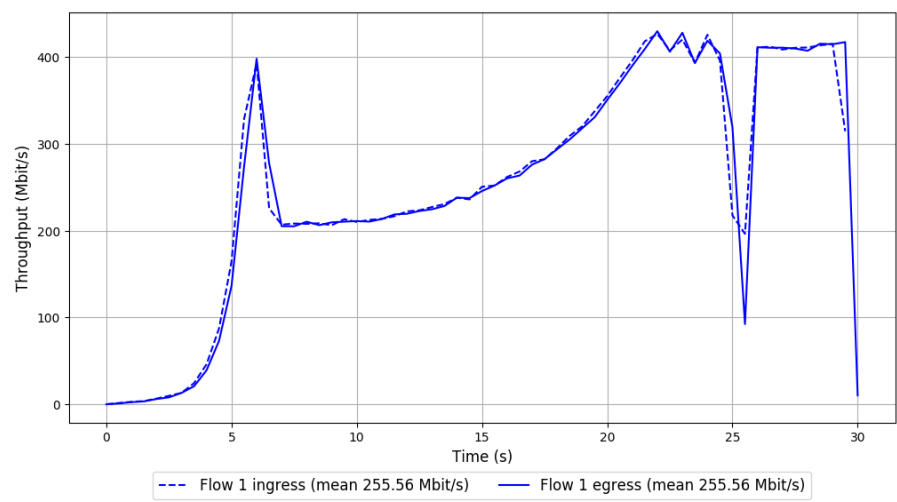


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-27 14:59:54
End at: 2018-03-27 15:00:24

# Below is generated by plot.py at 2018-03-27 20:08:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.56 Mbit/s
95th percentile per-packet one-way delay: 136.624 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 255.56 Mbit/s
95th percentile per-packet one-way delay: 136.624 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-27 15:15:43

End at: 2018-03-27 15:16:13

Below is generated by plot.py at 2018-03-27 20:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.35 Mbit/s

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

Loss rate: 0.00%

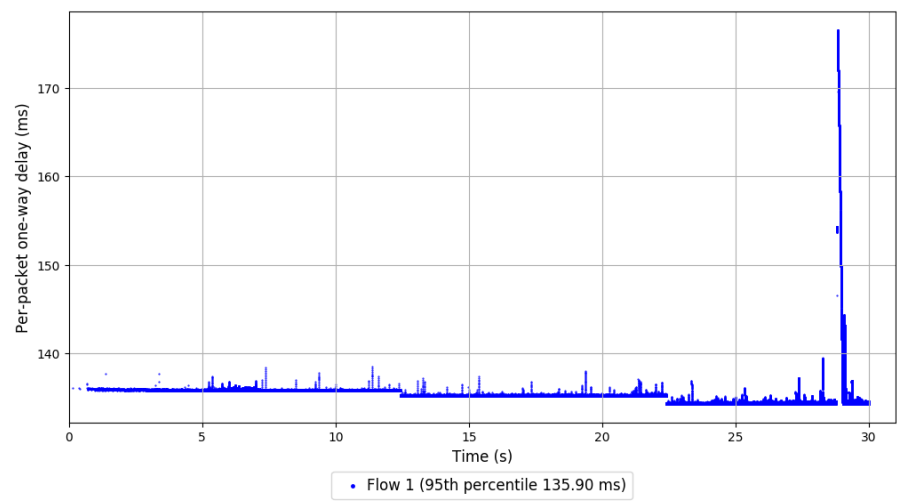
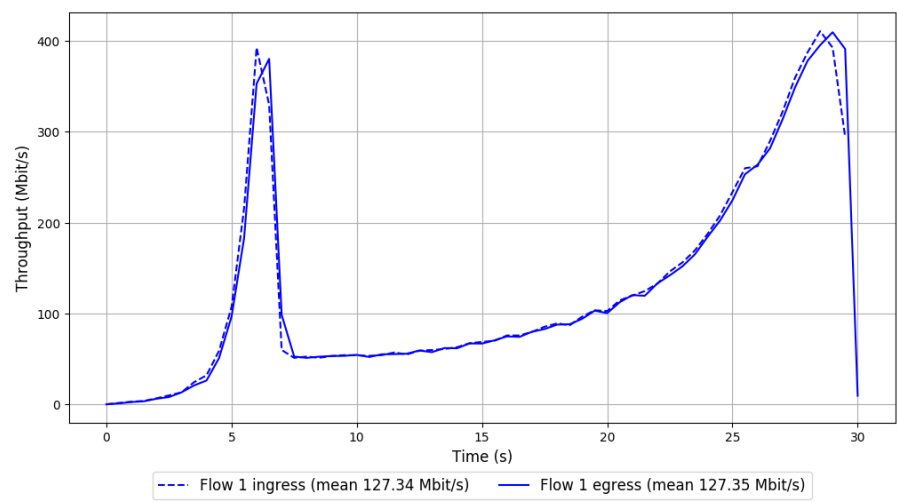
-- Flow 1:

Average throughput: 127.35 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-27 15:31:35

End at: 2018-03-27 15:32:05

Below is generated by plot.py at 2018-03-27 20:11:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.74 Mbit/s

95th percentile per-packet one-way delay: 277.778 ms

Loss rate: 3.76%

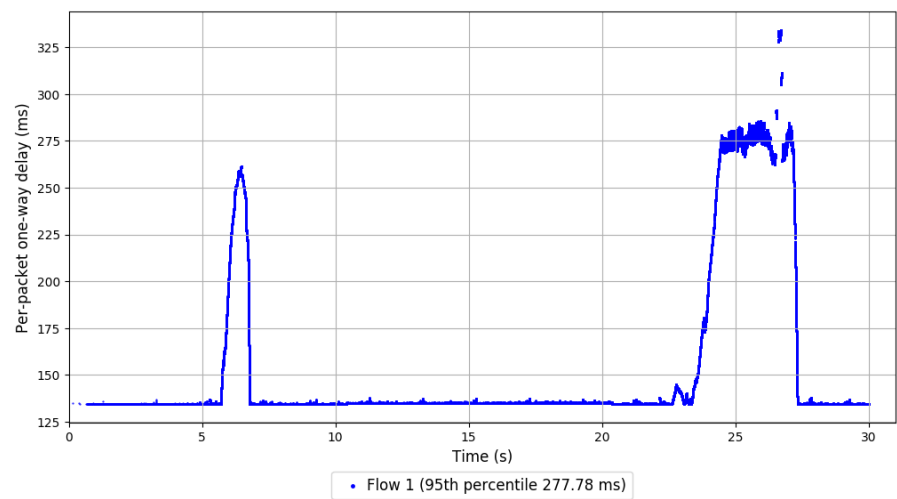
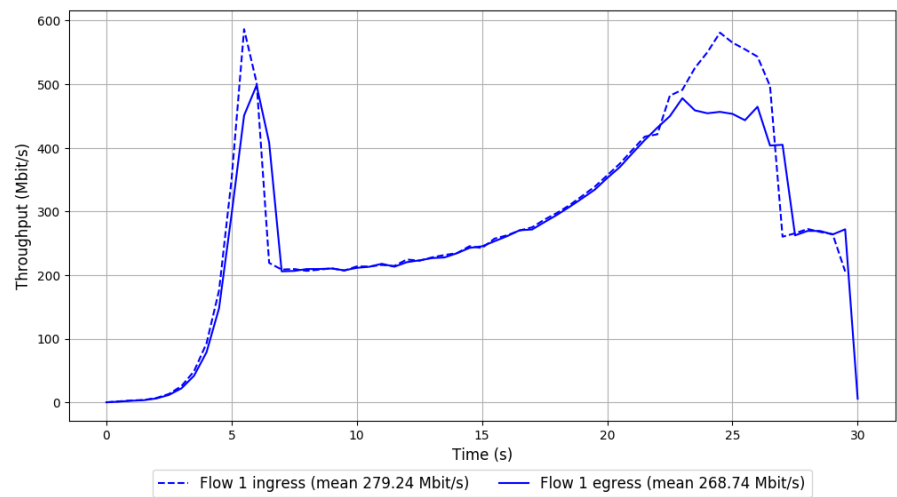
-- Flow 1:

Average throughput: 268.74 Mbit/s

95th percentile per-packet one-way delay: 277.778 ms

Loss rate: 3.76%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-27 15:47:34

End at: 2018-03-27 15:48:04

Below is generated by plot.py at 2018-03-27 20:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.98 Mbit/s

95th percentile per-packet one-way delay: 255.452 ms

Loss rate: 2.19%

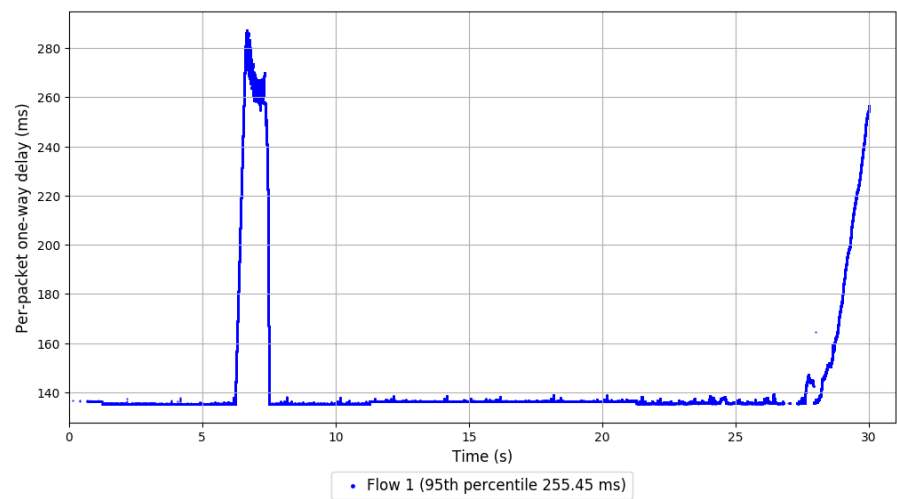
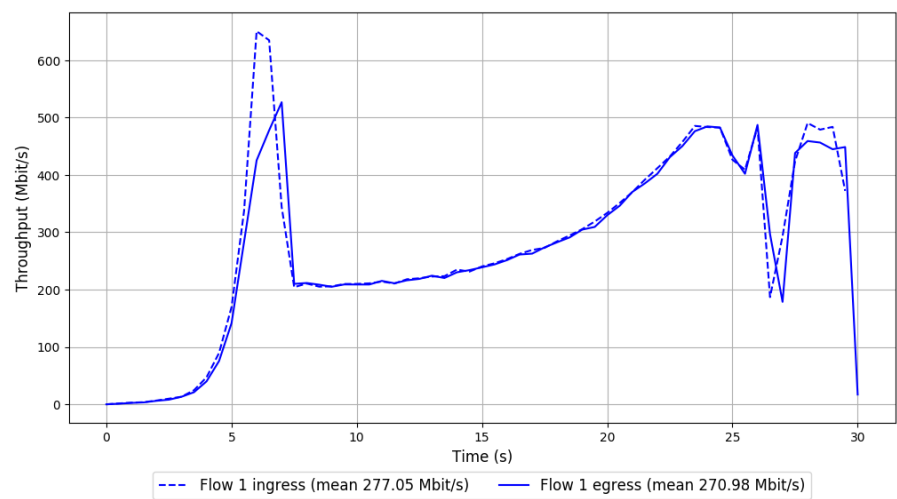
-- Flow 1:

Average throughput: 270.98 Mbit/s

95th percentile per-packet one-way delay: 255.452 ms

Loss rate: 2.19%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-27 16:03:16

End at: 2018-03-27 16:03:46

Below is generated by plot.py at 2018-03-27 20:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.73 Mbit/s

95th percentile per-packet one-way delay: 136.253 ms

Loss rate: 0.01%

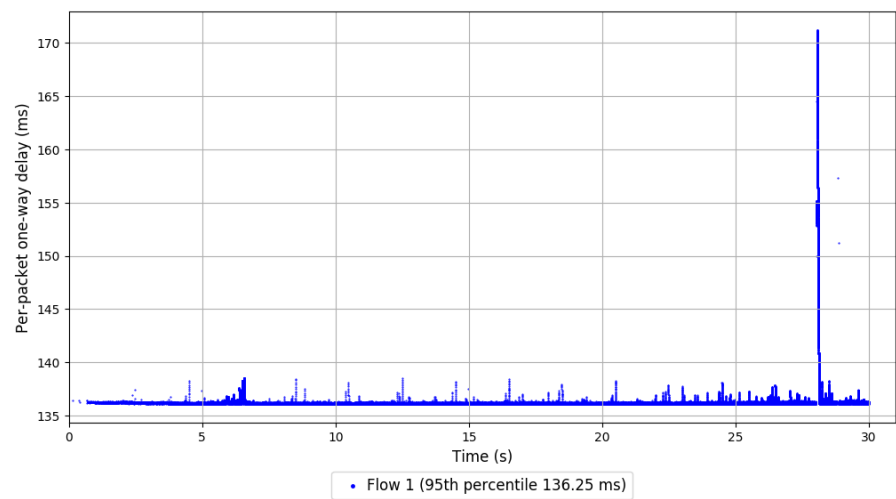
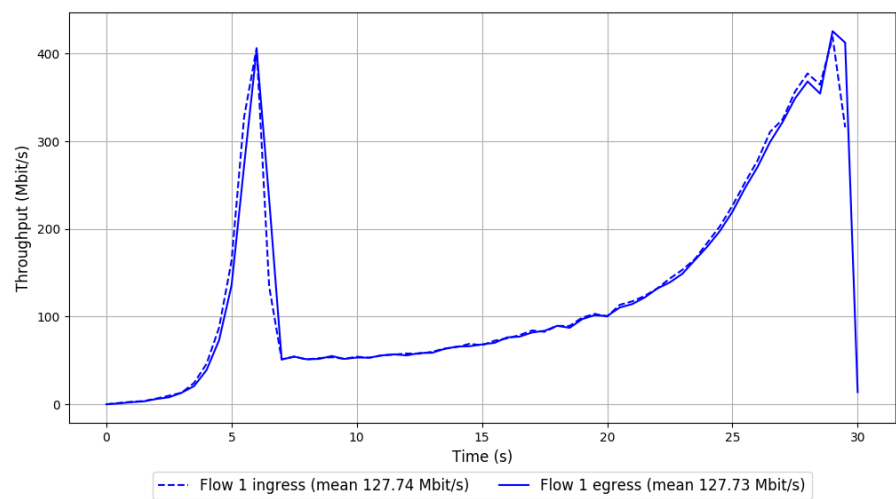
-- Flow 1:

Average throughput: 127.73 Mbit/s

95th percentile per-packet one-way delay: 136.253 ms

Loss rate: 0.01%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-27 16:19:00

End at: 2018-03-27 16:19:30

Below is generated by plot.py at 2018-03-27 20:12:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.65 Mbit/s

95th percentile per-packet one-way delay: 136.054 ms

Loss rate: 0.05%

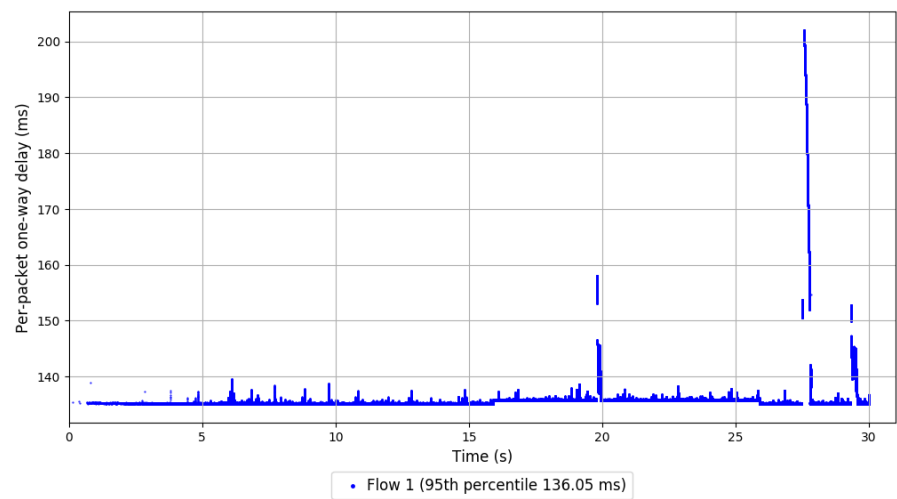
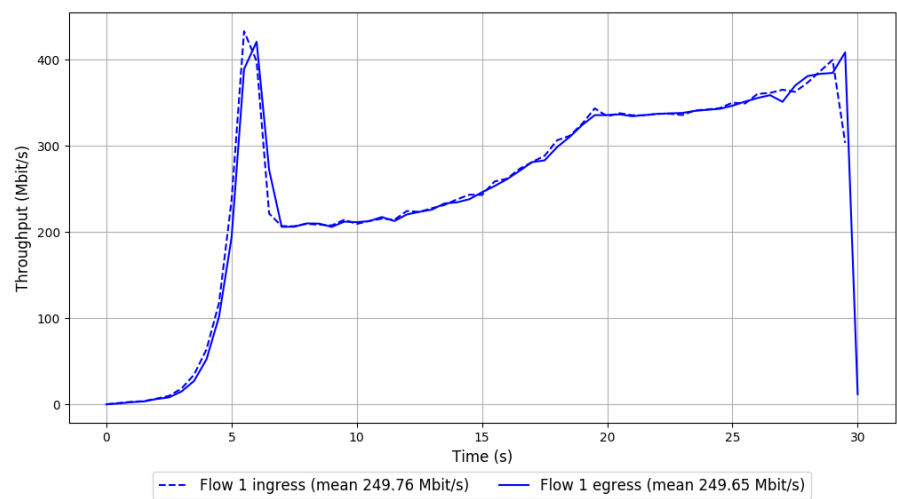
-- Flow 1:

Average throughput: 249.65 Mbit/s

95th percentile per-packet one-way delay: 136.054 ms

Loss rate: 0.05%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-27 16:34:43

End at: 2018-03-27 16:35:13

Below is generated by plot.py at 2018-03-27 20:13:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.70 Mbit/s

95th percentile per-packet one-way delay: 138.637 ms

Loss rate: 0.02%

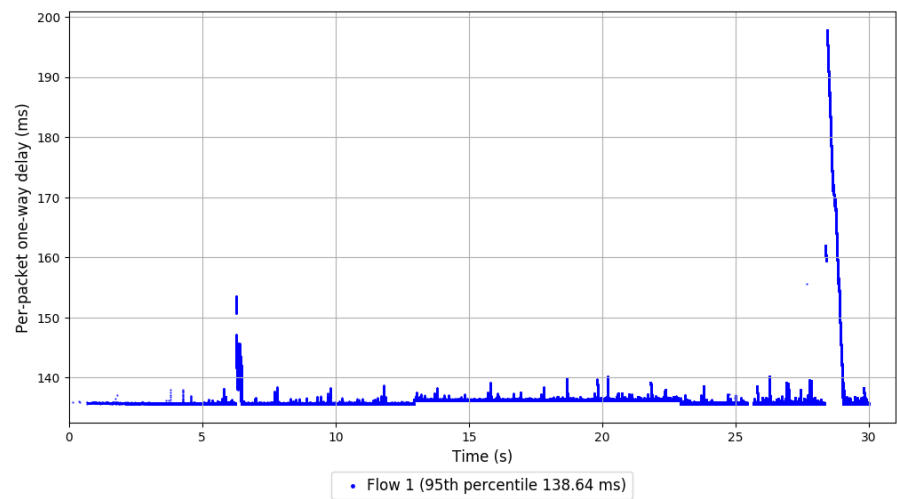
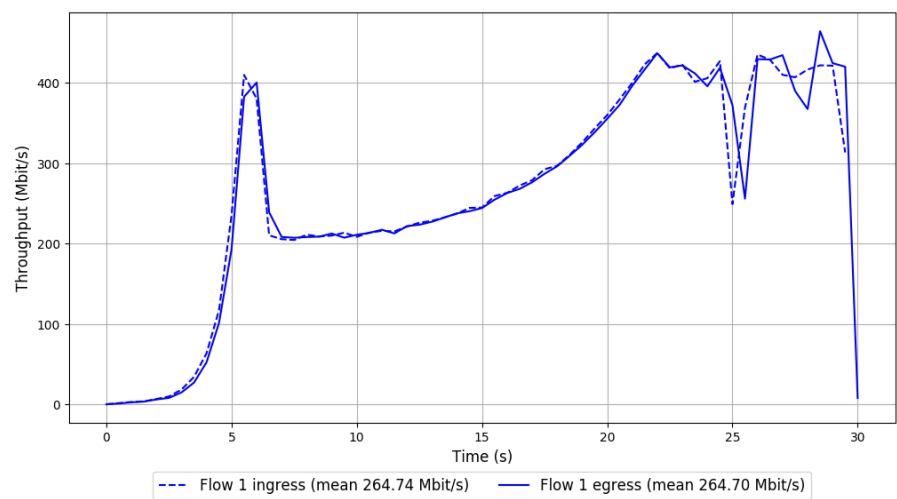
-- Flow 1:

Average throughput: 264.70 Mbit/s

95th percentile per-packet one-way delay: 138.637 ms

Loss rate: 0.02%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-27 16:50:31

End at: 2018-03-27 16:51:01

Below is generated by plot.py at 2018-03-27 20:13:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.75 Mbit/s

95th percentile per-packet one-way delay: 135.800 ms

Loss rate: 0.00%

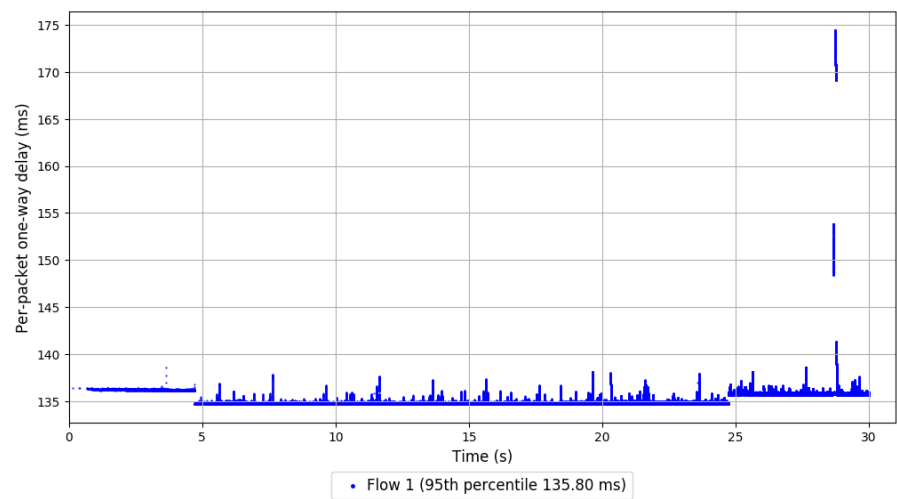
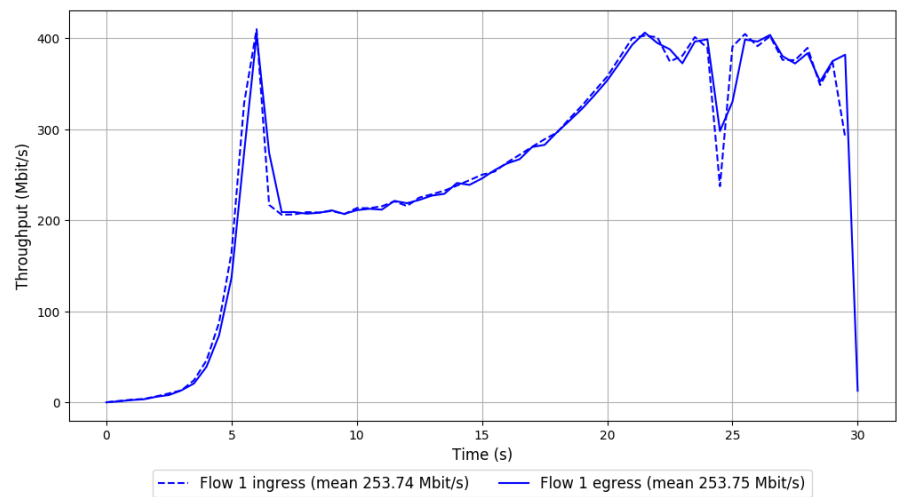
-- Flow 1:

Average throughput: 253.75 Mbit/s

95th percentile per-packet one-way delay: 135.800 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-27 17:06:19

End at: 2018-03-27 17:06:49

Below is generated by plot.py at 2018-03-27 20:13:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.18 Mbit/s

95th percentile per-packet one-way delay: 136.224 ms

Loss rate: 0.00%

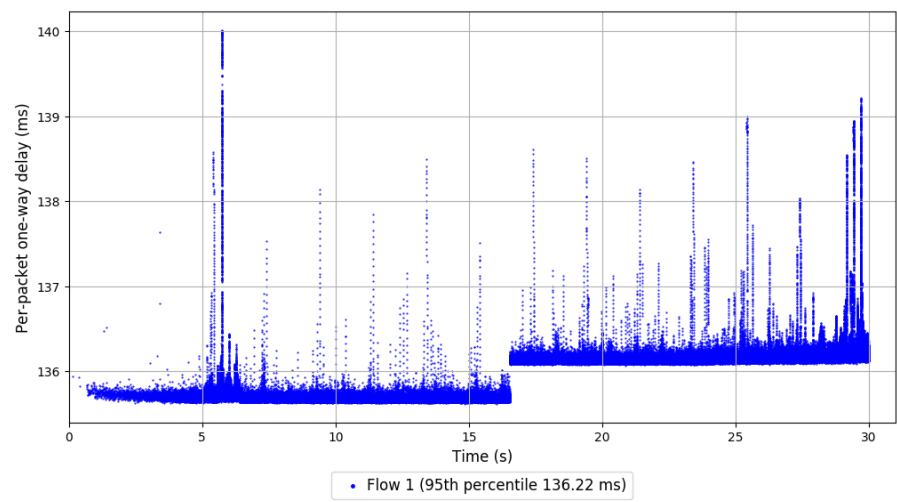
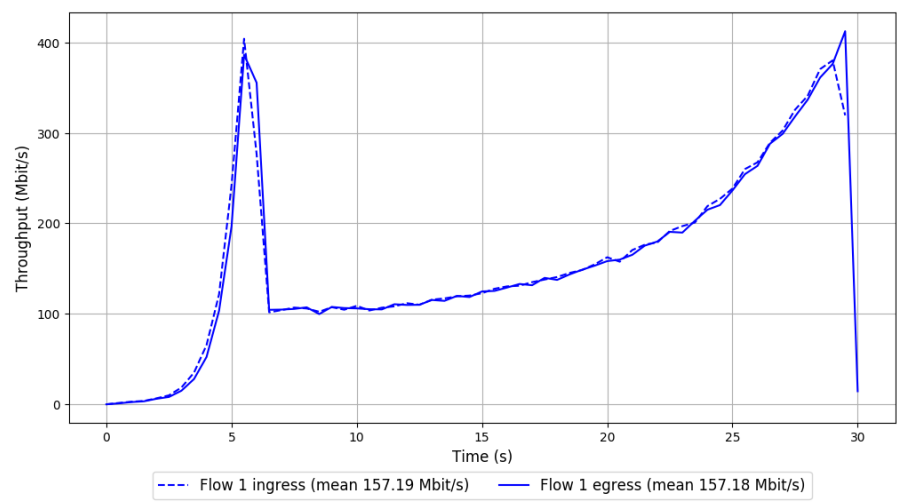
-- Flow 1:

Average throughput: 157.18 Mbit/s

95th percentile per-packet one-way delay: 136.224 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-27 17:22:05

End at: 2018-03-27 17:22:35

Below is generated by plot.py at 2018-03-27 20:13:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.01 Mbit/s

95th percentile per-packet one-way delay: 263.127 ms

Loss rate: 2.51%

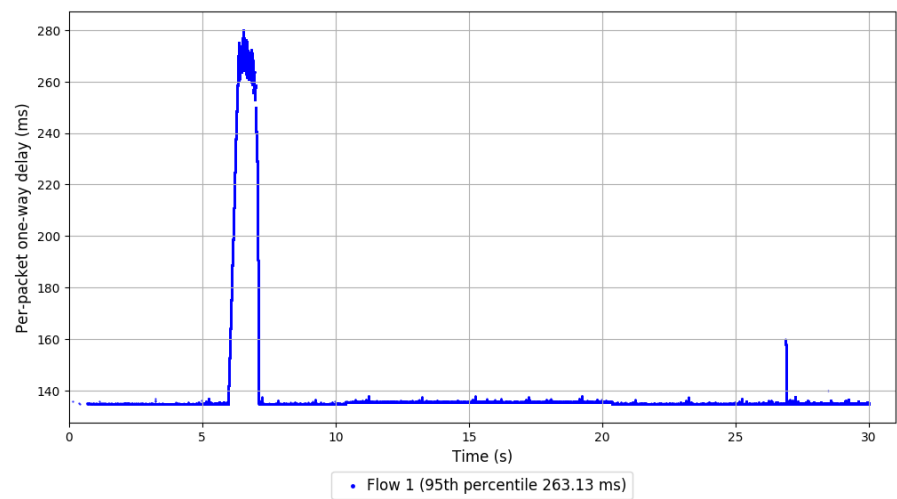
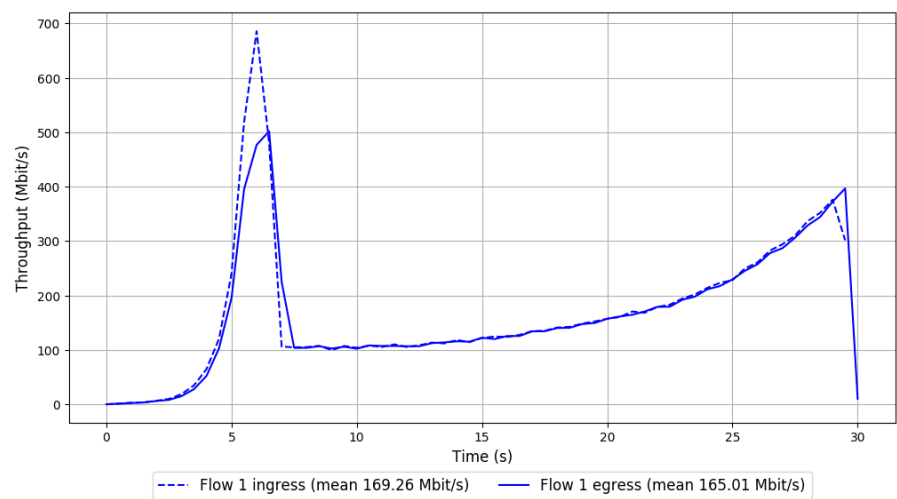
-- Flow 1:

Average throughput: 165.01 Mbit/s

95th percentile per-packet one-way delay: 263.127 ms

Loss rate: 2.51%

Run 10: Report of Vivace-loss — Data Link

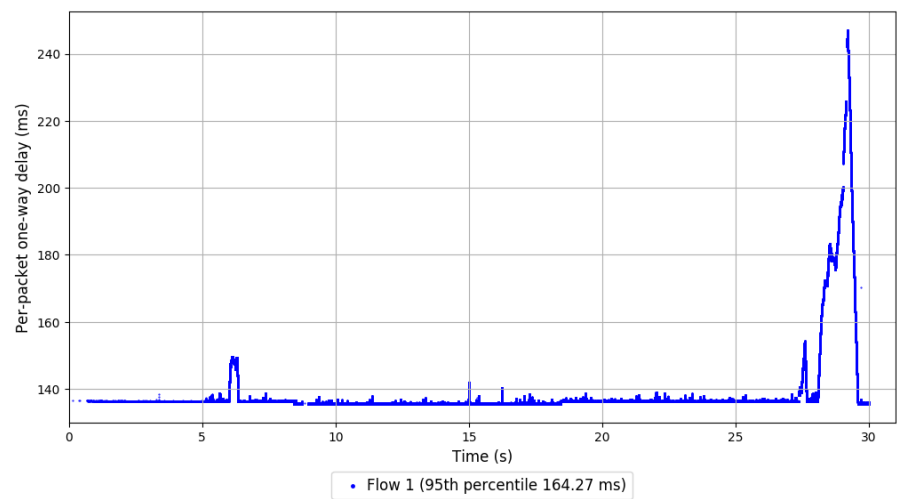
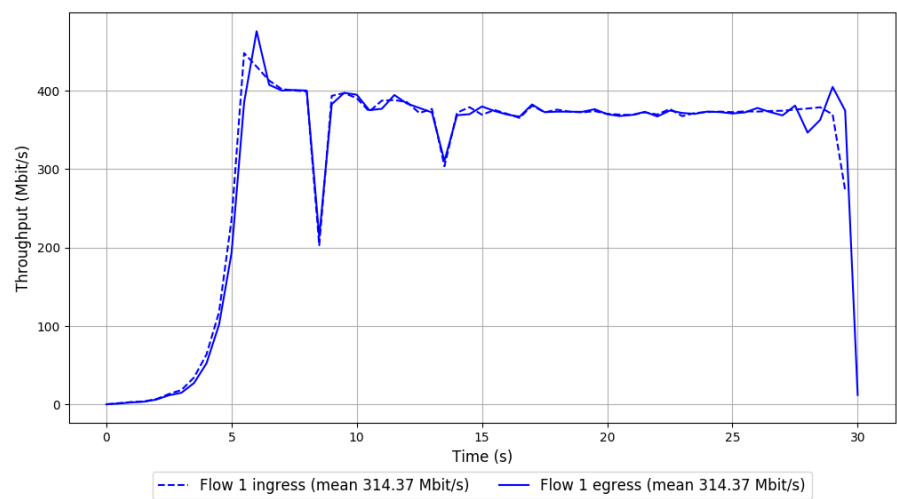


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-27 14:53:37
End at: 2018-03-27 14:54:07

# Below is generated by plot.py at 2018-03-27 20:17:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.37 Mbit/s
95th percentile per-packet one-way delay: 164.271 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 314.37 Mbit/s
95th percentile per-packet one-way delay: 164.271 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-27 15:09:19

End at: 2018-03-27 15:09:49

Below is generated by plot.py at 2018-03-27 20:18:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.18 Mbit/s

95th percentile per-packet one-way delay: 155.337 ms

Loss rate: 0.08%

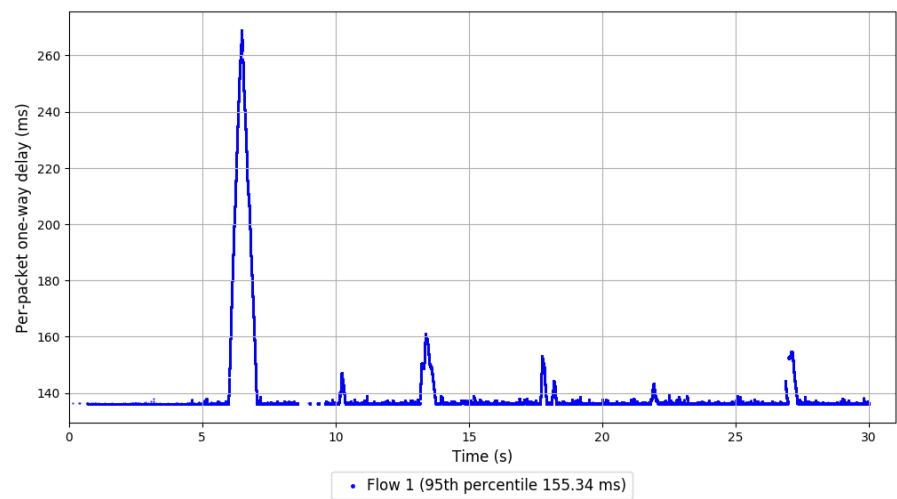
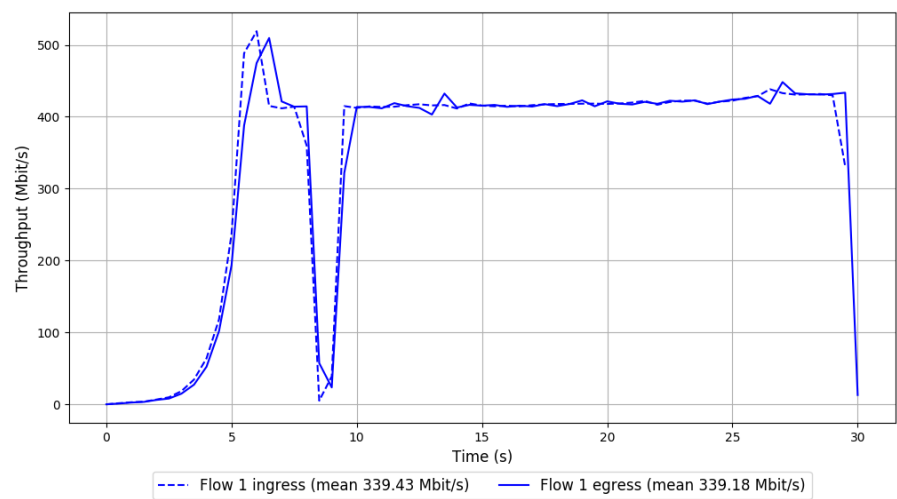
-- Flow 1:

Average throughput: 339.18 Mbit/s

95th percentile per-packet one-way delay: 155.337 ms

Loss rate: 0.08%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-27 15:24:55

End at: 2018-03-27 15:25:25

Below is generated by plot.py at 2018-03-27 20:18:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.66 Mbit/s

95th percentile per-packet one-way delay: 136.355 ms

Loss rate: 0.01%

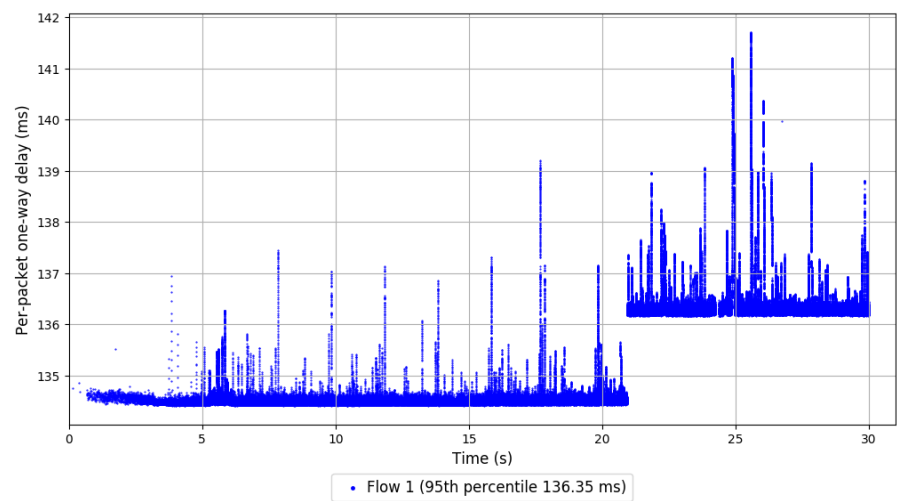
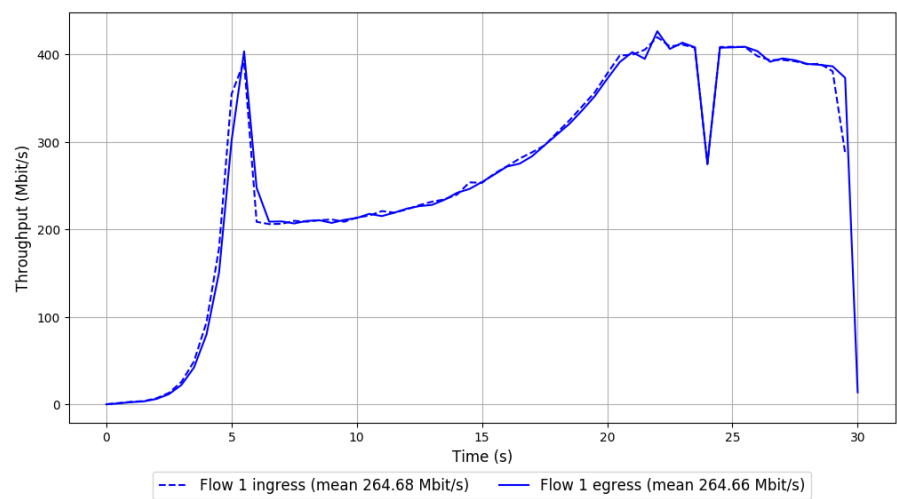
-- Flow 1:

Average throughput: 264.66 Mbit/s

95th percentile per-packet one-way delay: 136.355 ms

Loss rate: 0.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-27 15:40:54

End at: 2018-03-27 15:41:24

Below is generated by plot.py at 2018-03-27 20:18:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.83 Mbit/s

95th percentile per-packet one-way delay: 135.670 ms

Loss rate: 0.00%

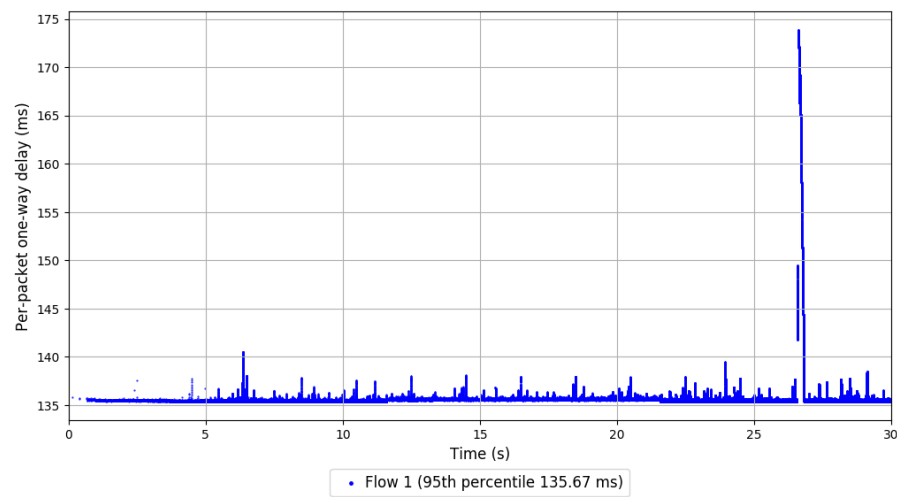
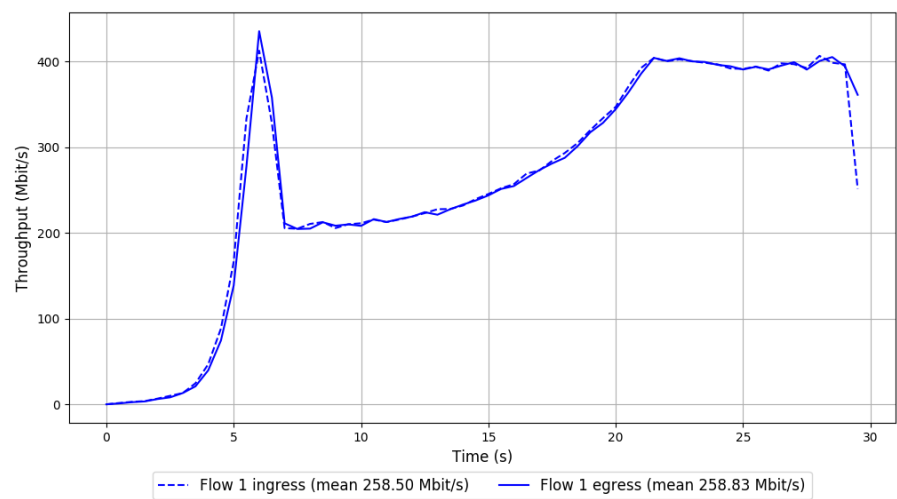
-- Flow 1:

Average throughput: 258.83 Mbit/s

95th percentile per-packet one-way delay: 135.670 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-27 15:57:01

End at: 2018-03-27 15:57:31

Below is generated by plot.py at 2018-03-27 20:18:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.13 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 0.00%

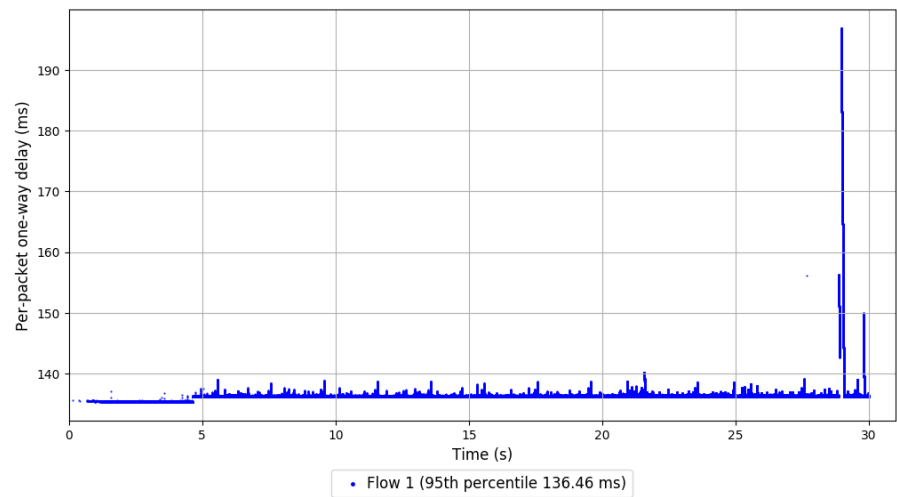
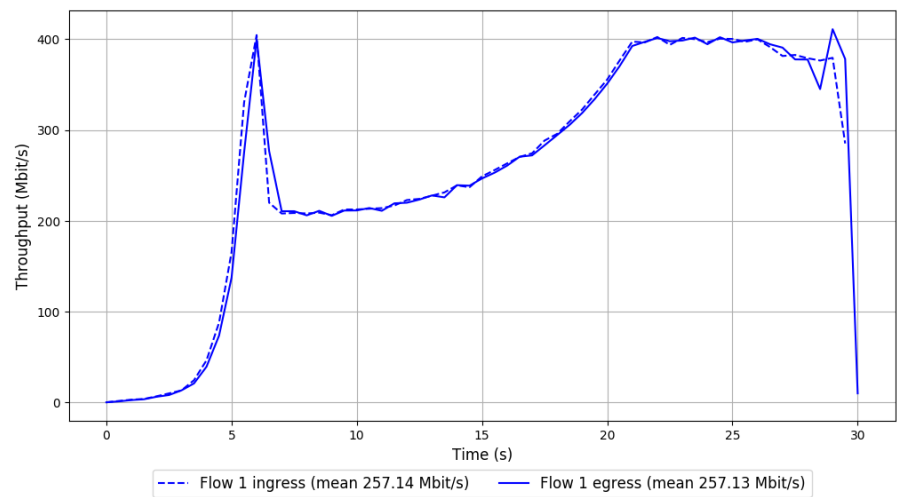
-- Flow 1:

Average throughput: 257.13 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-27 16:12:27

End at: 2018-03-27 16:12:57

Below is generated by plot.py at 2018-03-27 20:18:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.00 Mbit/s

95th percentile per-packet one-way delay: 135.764 ms

Loss rate: 0.01%

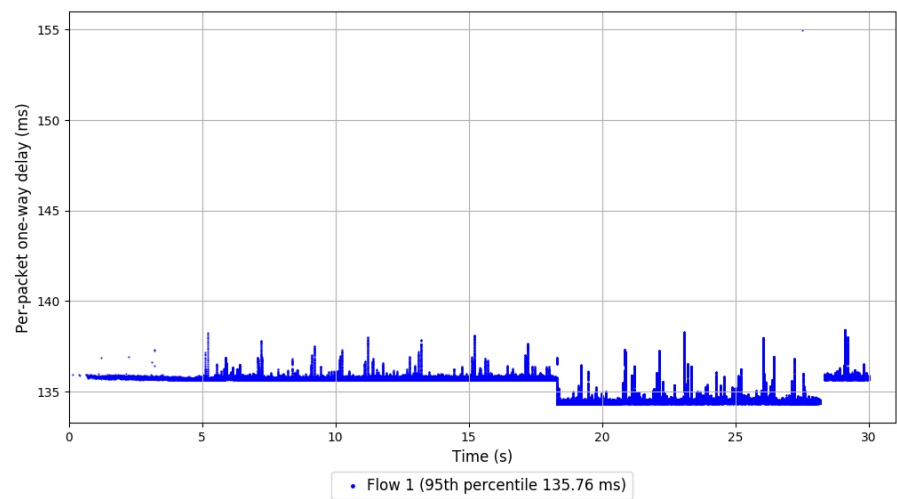
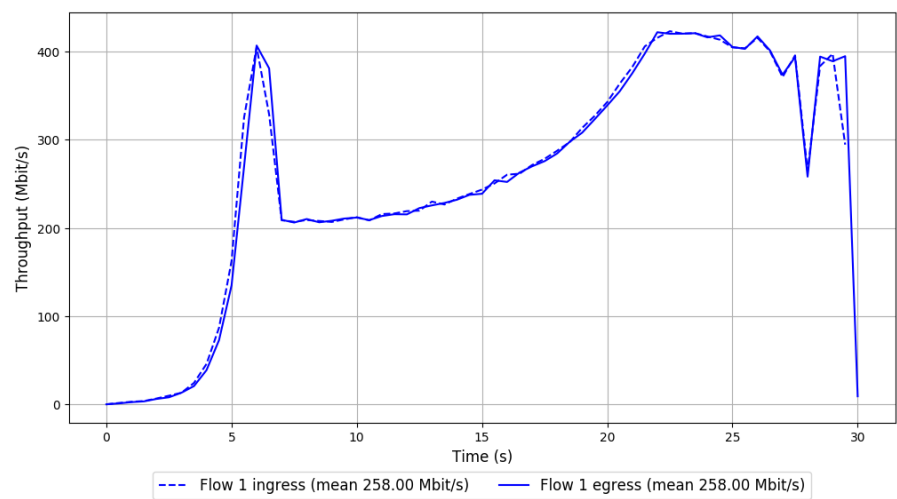
-- Flow 1:

Average throughput: 258.00 Mbit/s

95th percentile per-packet one-way delay: 135.764 ms

Loss rate: 0.01%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-27 16:28:22

End at: 2018-03-27 16:28:52

Below is generated by plot.py at 2018-03-27 20:19:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.18 Mbit/s

95th percentile per-packet one-way delay: 135.866 ms

Loss rate: 0.00%

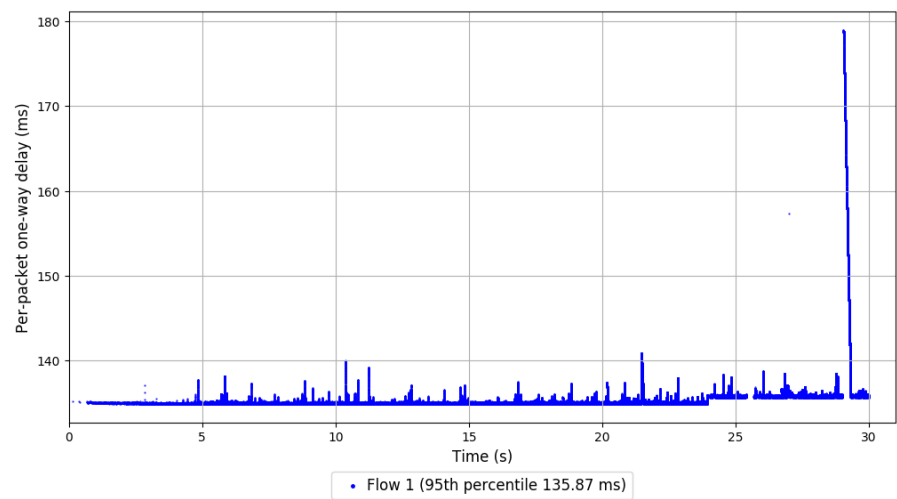
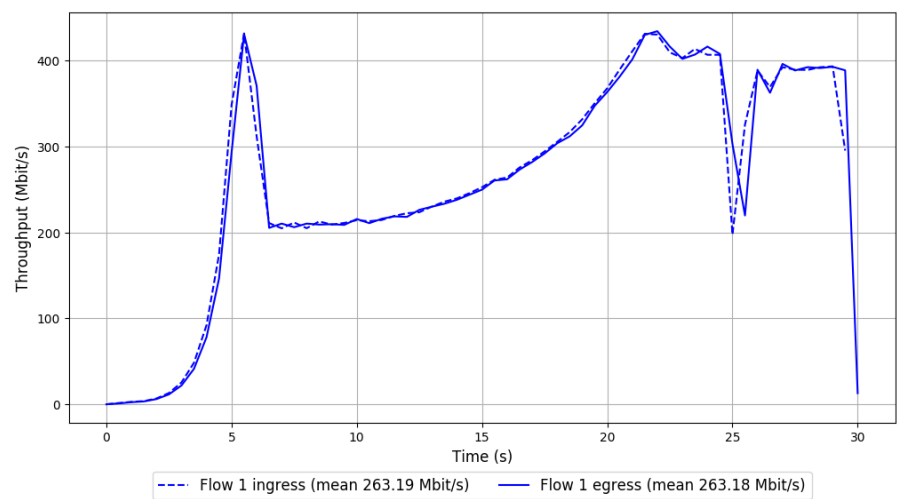
-- Flow 1:

Average throughput: 263.18 Mbit/s

95th percentile per-packet one-way delay: 135.866 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-27 16:44:10

End at: 2018-03-27 16:44:40

Below is generated by plot.py at 2018-03-27 20:19:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.68 Mbit/s

95th percentile per-packet one-way delay: 135.744 ms

Loss rate: 0.00%

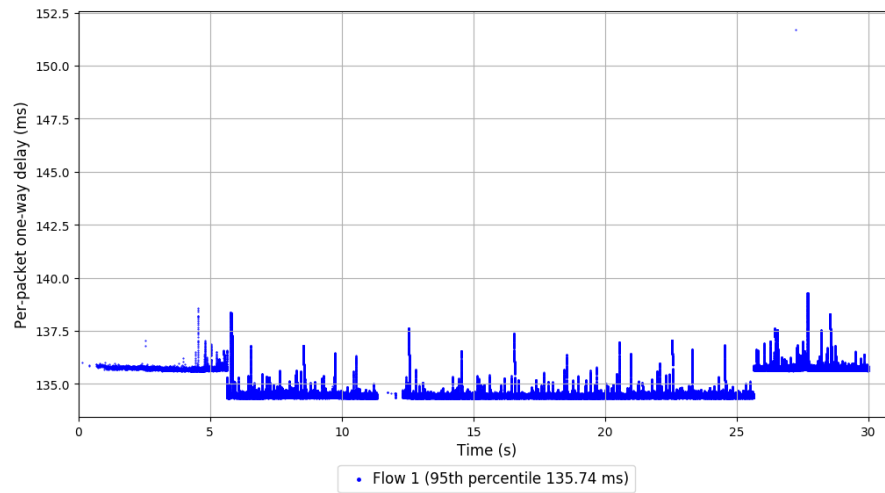
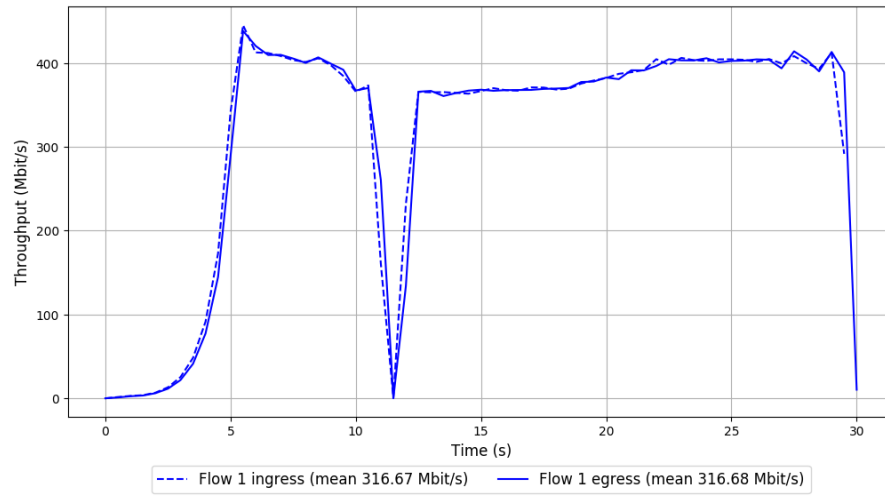
-- Flow 1:

Average throughput: 316.68 Mbit/s

95th percentile per-packet one-way delay: 135.744 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-27 16:59:43

End at: 2018-03-27 17:00:13

Below is generated by plot.py at 2018-03-27 20:19:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.05 Mbit/s

95th percentile per-packet one-way delay: 136.238 ms

Loss rate: 0.25%

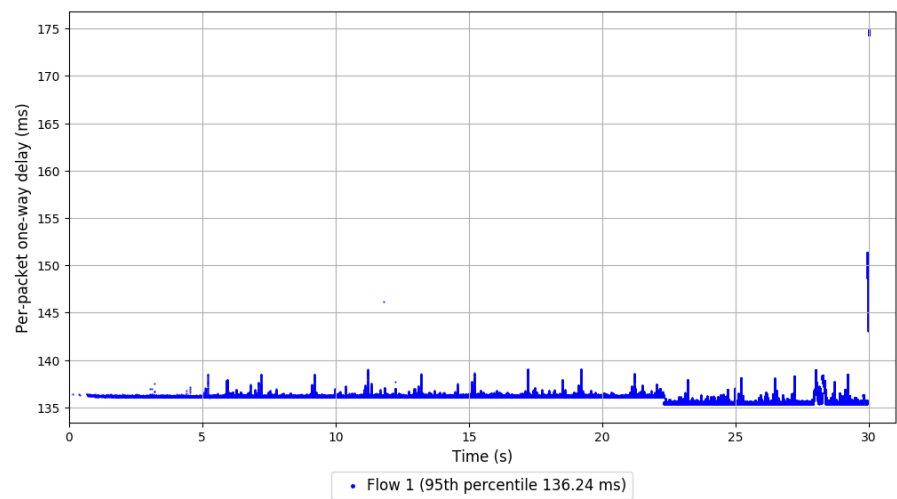
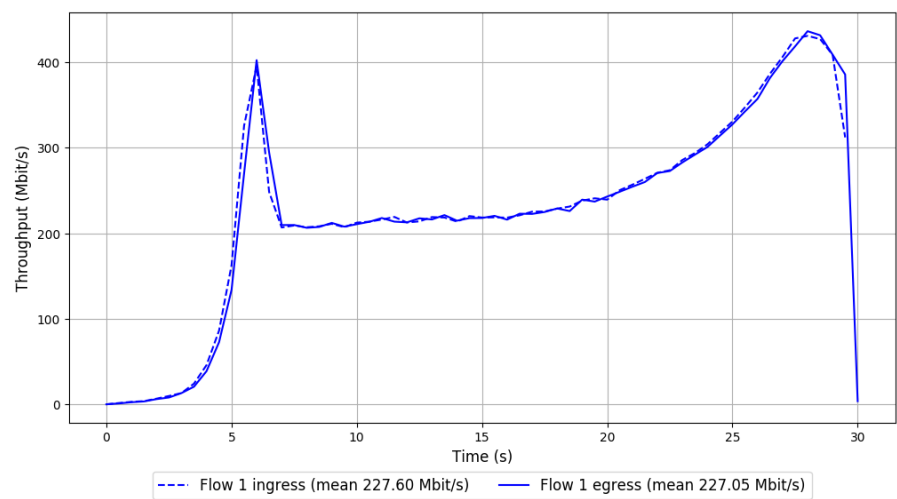
-- Flow 1:

Average throughput: 227.05 Mbit/s

95th percentile per-packet one-way delay: 136.238 ms

Loss rate: 0.25%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-27 17:15:22

End at: 2018-03-27 17:15:52

Below is generated by plot.py at 2018-03-27 20:19:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.25 Mbit/s

95th percentile per-packet one-way delay: 136.244 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 321.25 Mbit/s

95th percentile per-packet one-way delay: 136.244 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

