

Pantheon Report

Generated at 2018-04-03 22:38:59 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

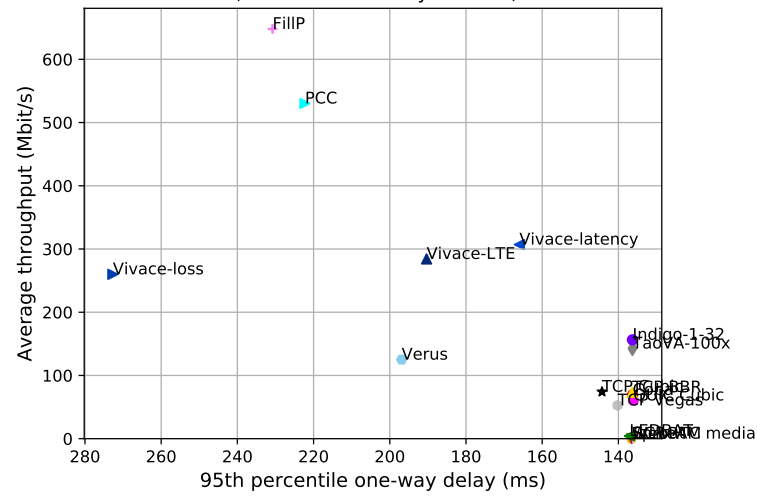
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

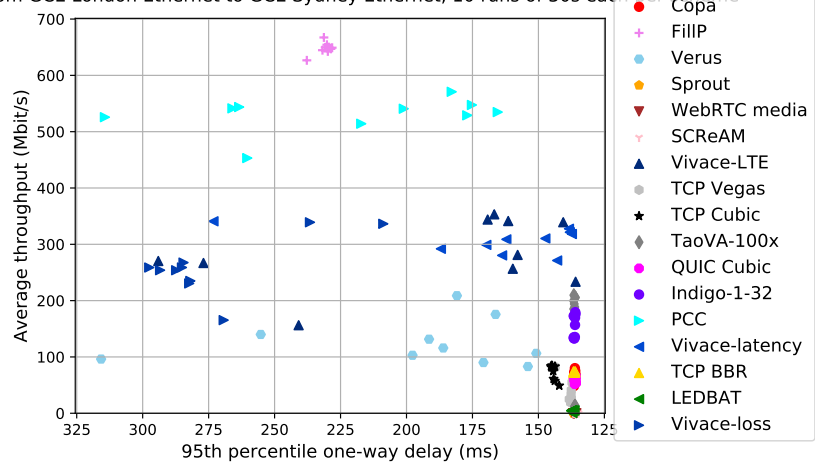
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
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 @ f1a14bffe749737437f61b1eae30b267cde681
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 London Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	73.19	136.39	1.03
TCP Cubic	10	74.14	144.31	0.91
LEDBAT	10	4.31	137.13	2.07
PCC	10	530.11	222.26	2.54
QUIC Cubic	10	60.51	136.10	1.24
SCReAM	10	0.22	136.04	0.89
WebRTC media	10	0.06	136.50	0.00
Sprout	10	0.38	136.56	0.89
TaoVA-100x	10	142.60	136.32	0.94
TCP Vegas	10	52.67	140.23	0.83
Verus	10	125.04	196.90	2.05
Copa	10	69.17	136.28	0.62
FillP	10	648.00	230.77	7.39
Indigo-1-32	10	156.34	136.31	0.89
Vivace-latency	10	306.99	166.00	1.50
Vivace-loss	10	259.96	272.67	5.62
Vivace-LTE	10	284.28	190.35	2.01

Run 1: Statistics of TCP BBR

Start at: 2018-04-03 16:02:18

End at: 2018-04-03 16:02:48

Below is generated by plot.py at 2018-04-03 21:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 136.519 ms

Loss rate: 0.96%

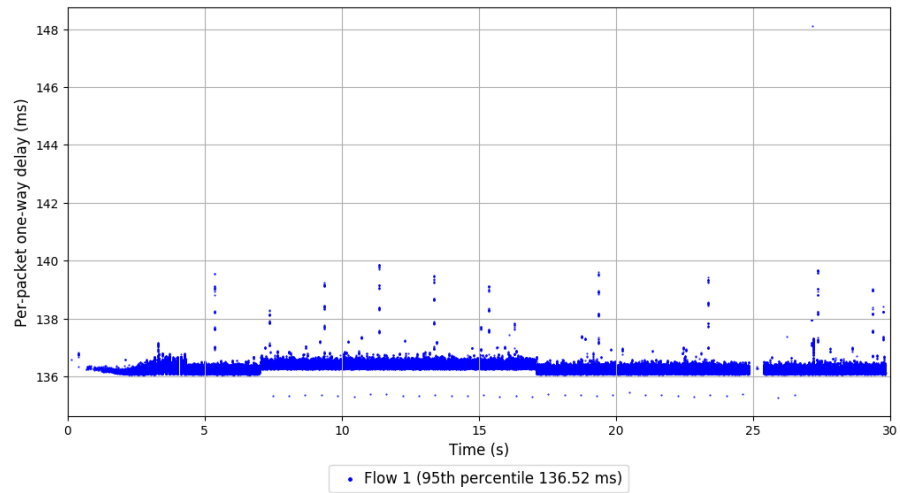
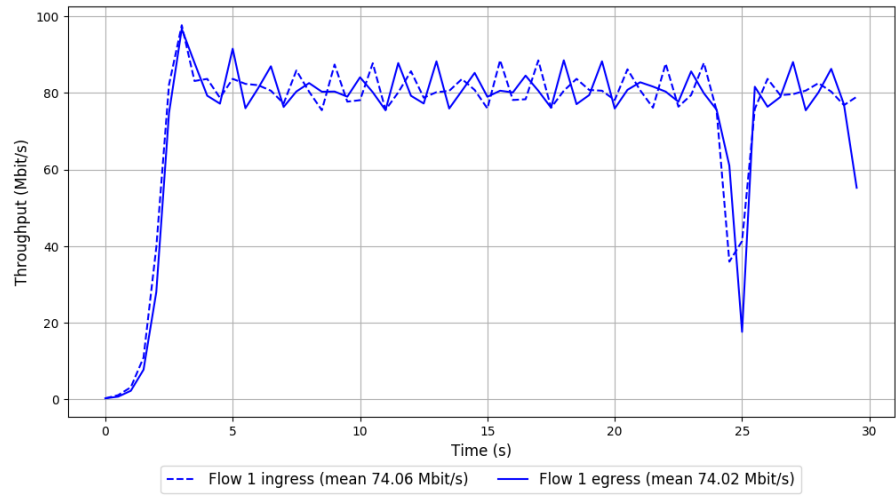
-- Flow 1:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 136.519 ms

Loss rate: 0.96%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-03 16:17:49

End at: 2018-04-03 16:18:19

Below is generated by plot.py at 2018-04-03 21:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 136.569 ms

Loss rate: 0.98%

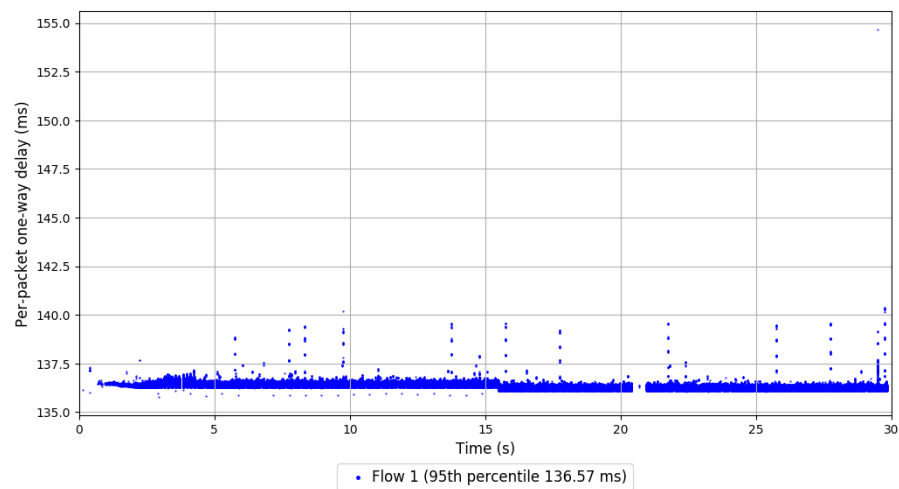
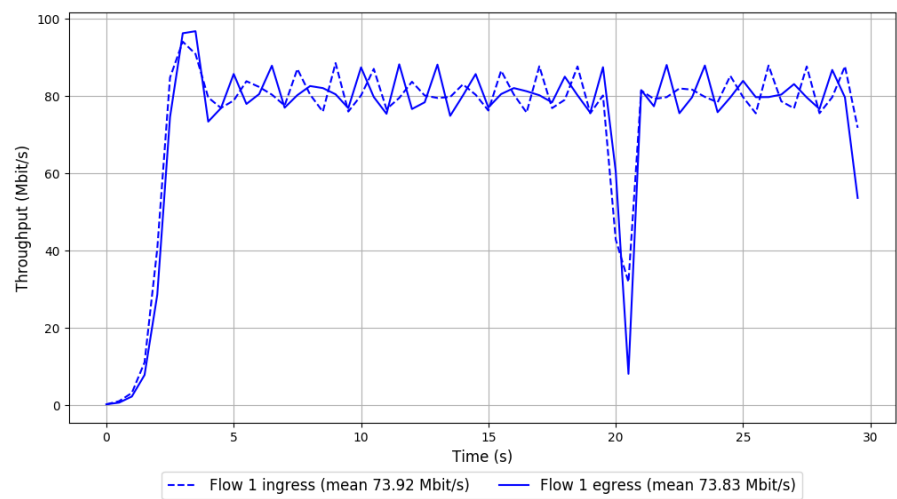
-- Flow 1:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 136.569 ms

Loss rate: 0.98%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-03 16:33:37

End at: 2018-04-03 16:34:07

Below is generated by plot.py at 2018-04-03 21:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.68 Mbit/s

95th percentile per-packet one-way delay: 136.084 ms

Loss rate: 1.07%

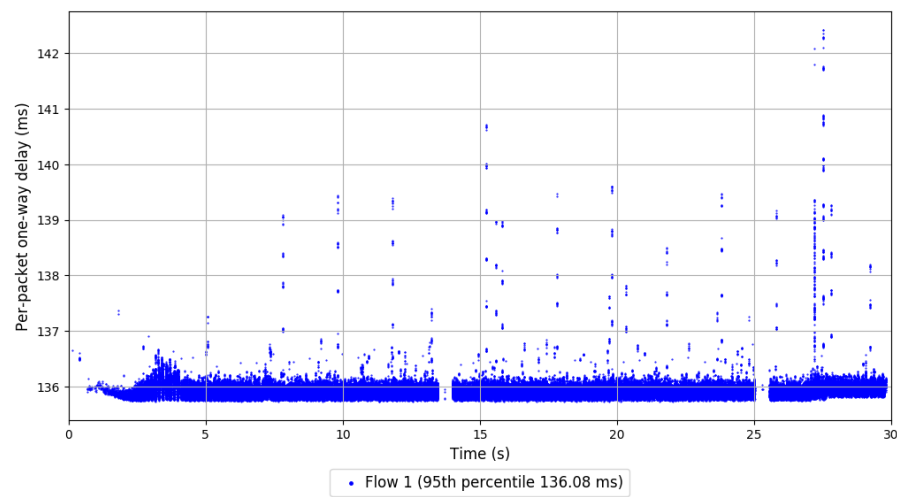
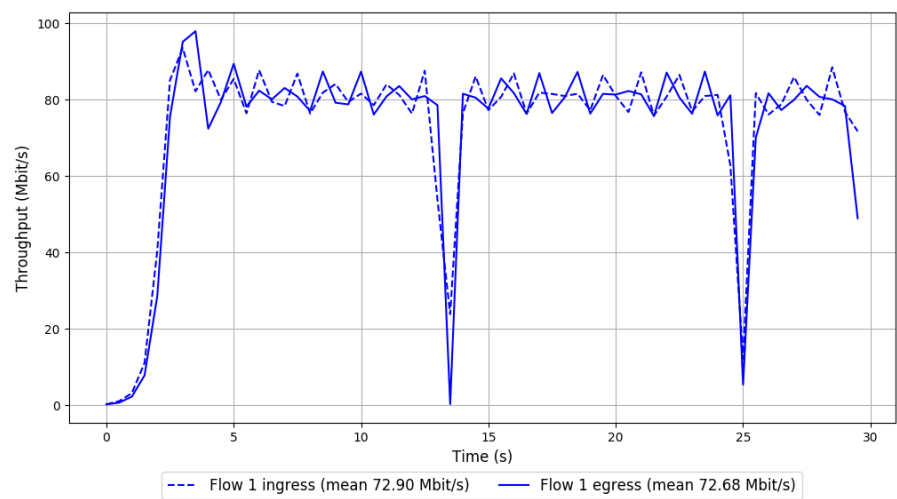
-- Flow 1:

Average throughput: 72.68 Mbit/s

95th percentile per-packet one-way delay: 136.084 ms

Loss rate: 1.07%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-03 16:49:29

End at: 2018-04-03 16:49:59

Below is generated by plot.py at 2018-04-03 21:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.87 Mbit/s

95th percentile per-packet one-way delay: 136.121 ms

Loss rate: 1.08%

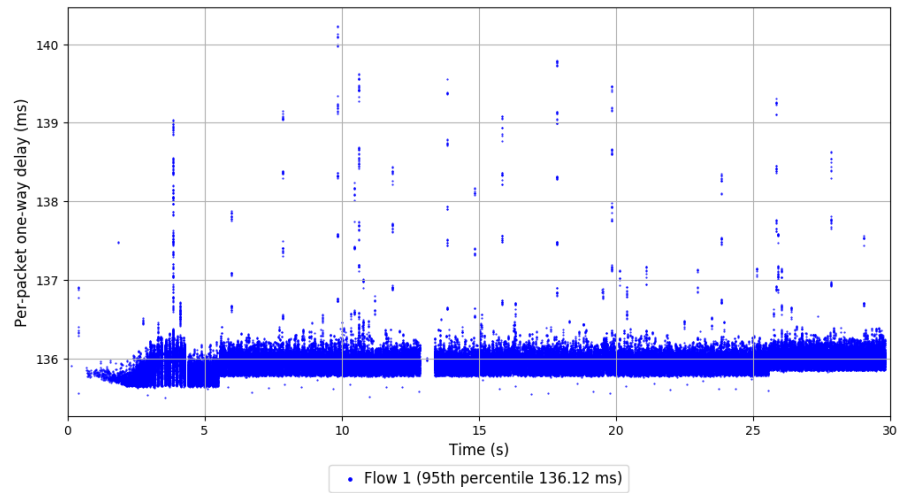
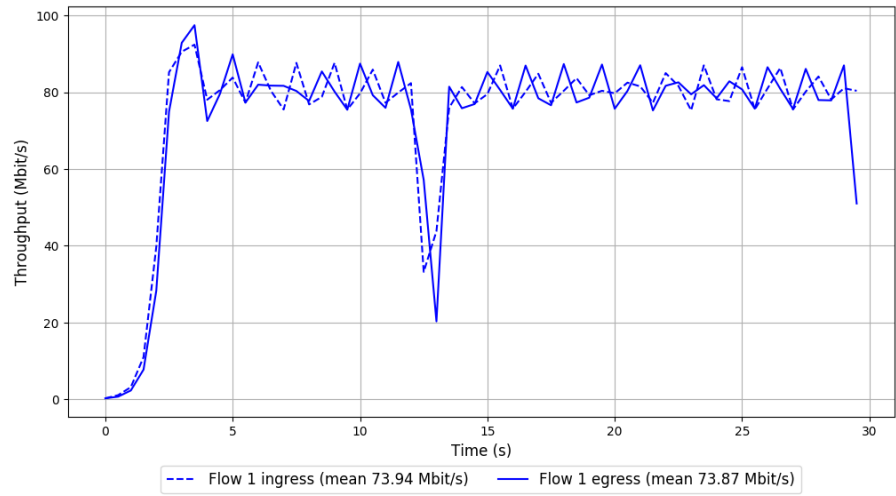
-- Flow 1:

Average throughput: 73.87 Mbit/s

95th percentile per-packet one-way delay: 136.121 ms

Loss rate: 1.08%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-03 17:05:26

End at: 2018-04-03 17:05:56

Below is generated by plot.py at 2018-04-03 21:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.27 Mbit/s

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

Loss rate: 1.01%

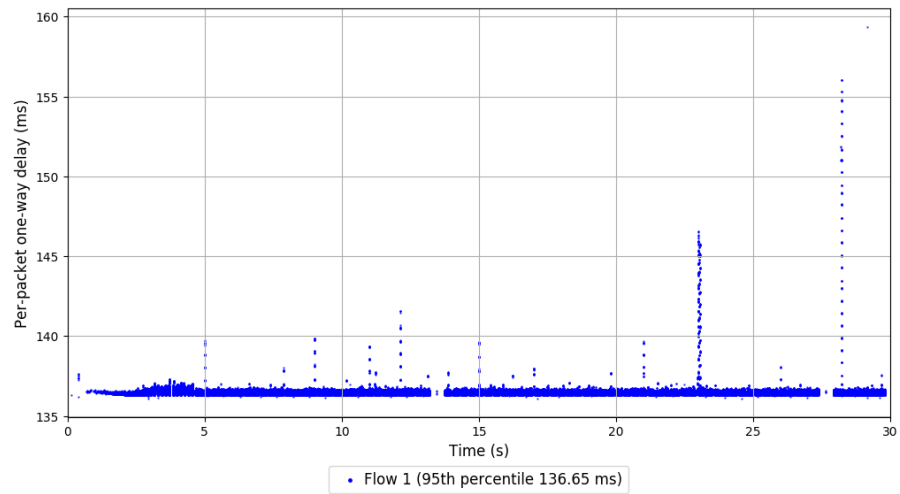
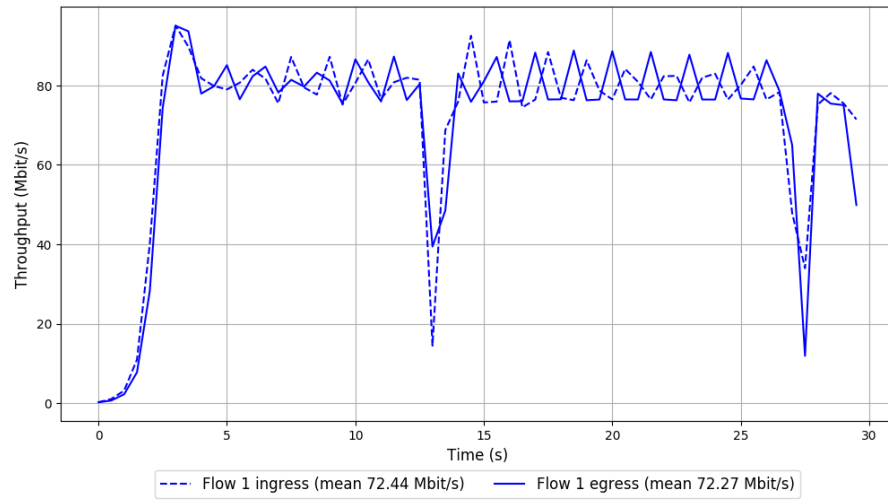
-- Flow 1:

Average throughput: 72.27 Mbit/s

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

Loss rate: 1.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-03 17:21:13

End at: 2018-04-03 17:21:43

Below is generated by plot.py at 2018-04-03 21:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 0.98%

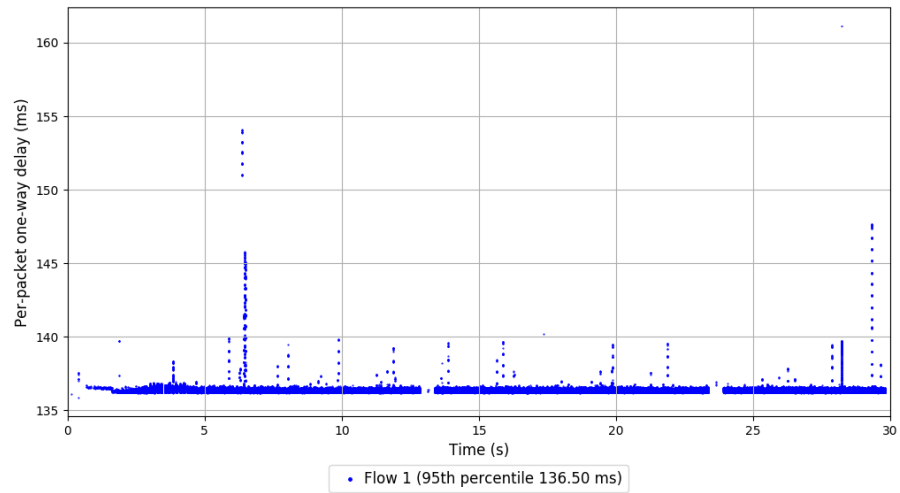
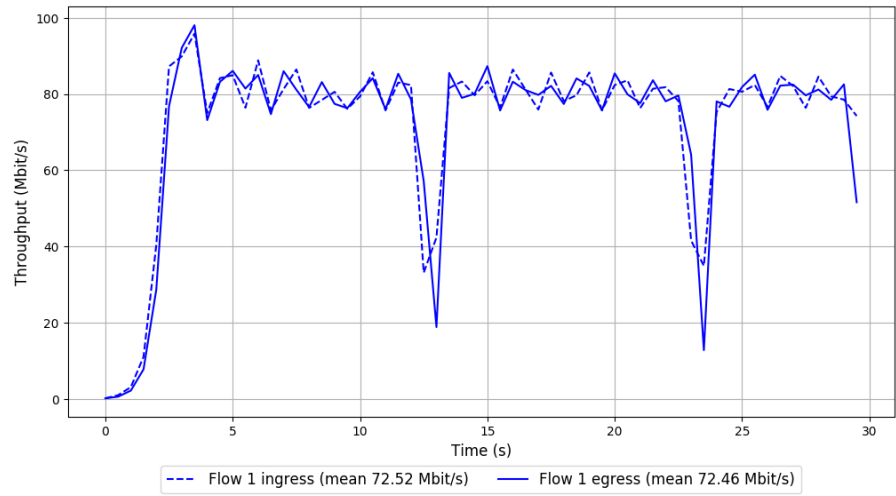
-- Flow 1:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 136.500 ms

Loss rate: 0.98%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-03 17:36:56

End at: 2018-04-03 17:37:26

Below is generated by plot.py at 2018-04-03 21:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.18 Mbit/s

95th percentile per-packet one-way delay: 136.717 ms

Loss rate: 0.95%

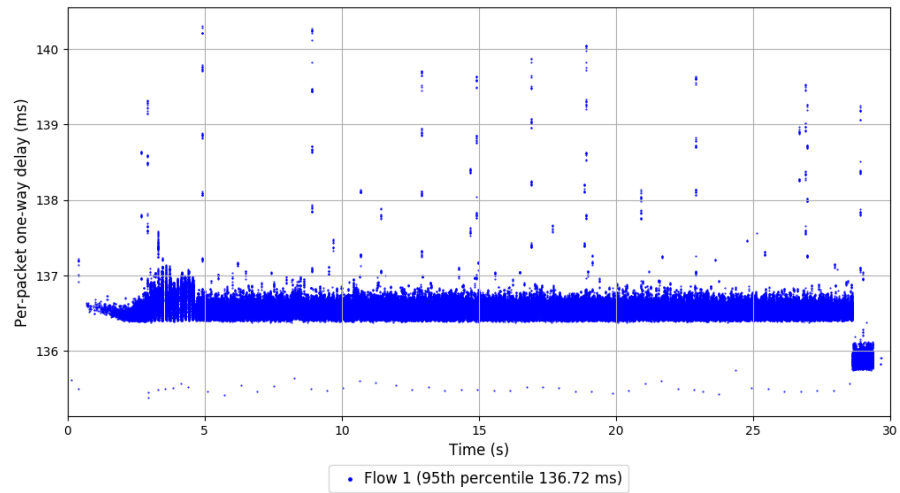
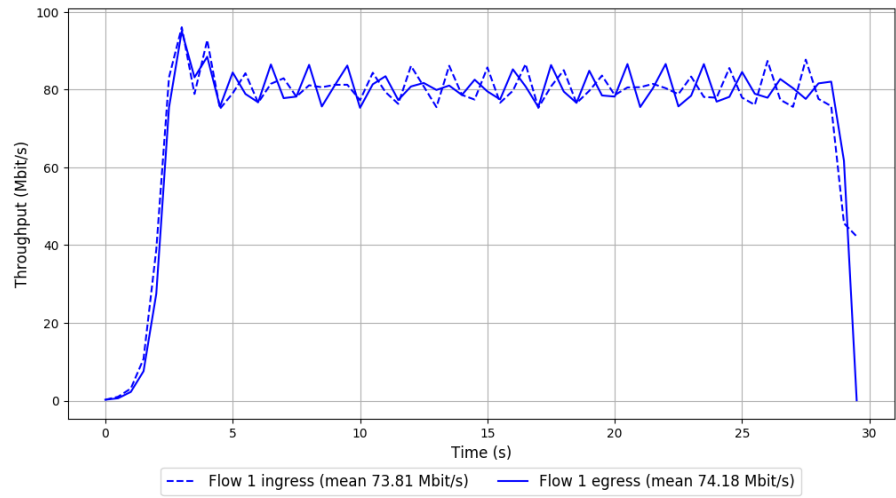
-- Flow 1:

Average throughput: 74.18 Mbit/s

95th percentile per-packet one-way delay: 136.717 ms

Loss rate: 0.95%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-03 17:52:22

End at: 2018-04-03 17:52:52

Below is generated by plot.py at 2018-04-03 21:20:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.20 Mbit/s

95th percentile per-packet one-way delay: 136.656 ms

Loss rate: 1.10%

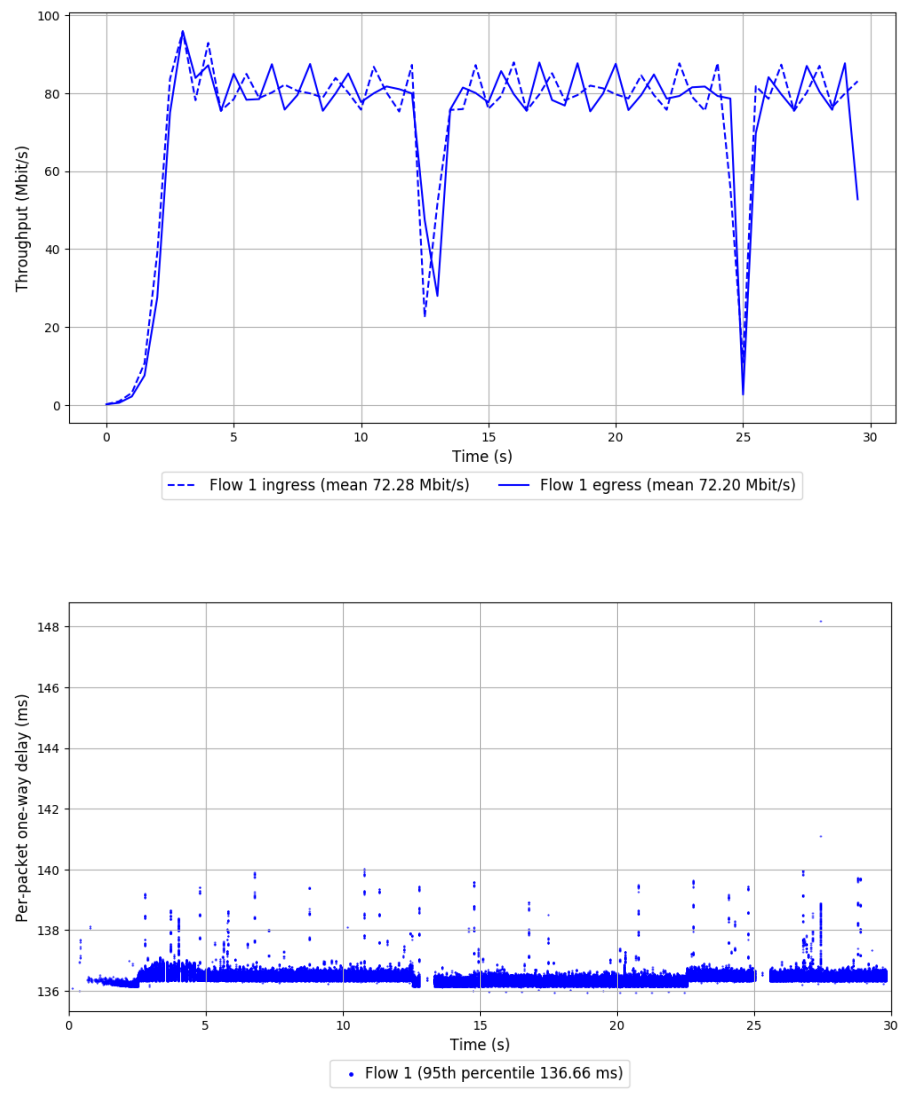
-- Flow 1:

Average throughput: 72.20 Mbit/s

95th percentile per-packet one-way delay: 136.656 ms

Loss rate: 1.10%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-03 18:08:11

End at: 2018-04-03 18:08:41

Below is generated by plot.py at 2018-04-03 21:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.16 Mbit/s

95th percentile per-packet one-way delay: 136.059 ms

Loss rate: 1.10%

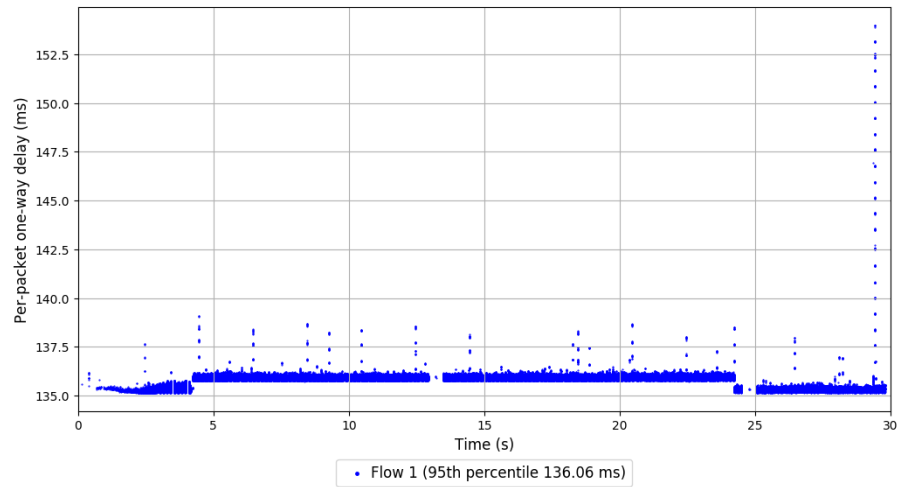
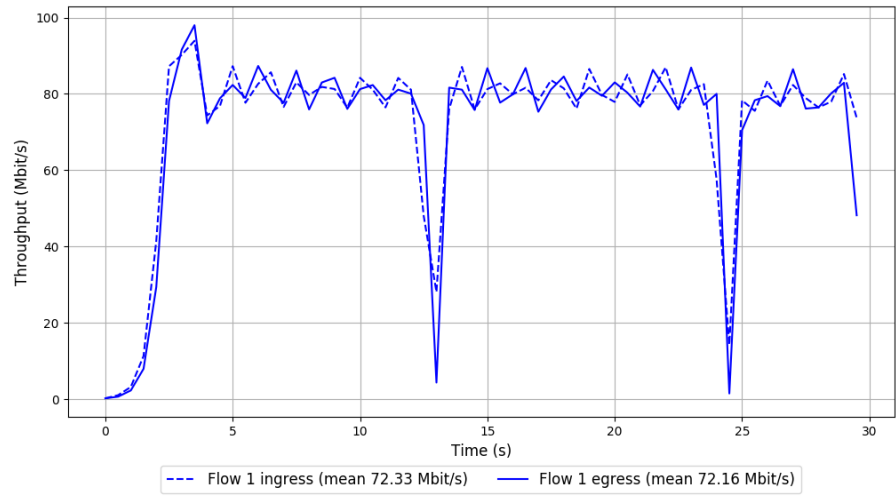
-- Flow 1:

Average throughput: 72.16 Mbit/s

95th percentile per-packet one-way delay: 136.059 ms

Loss rate: 1.10%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-03 18:23:47

End at: 2018-04-03 18:24:17

Below is generated by plot.py at 2018-04-03 21:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.24 Mbit/s

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

Loss rate: 1.08%

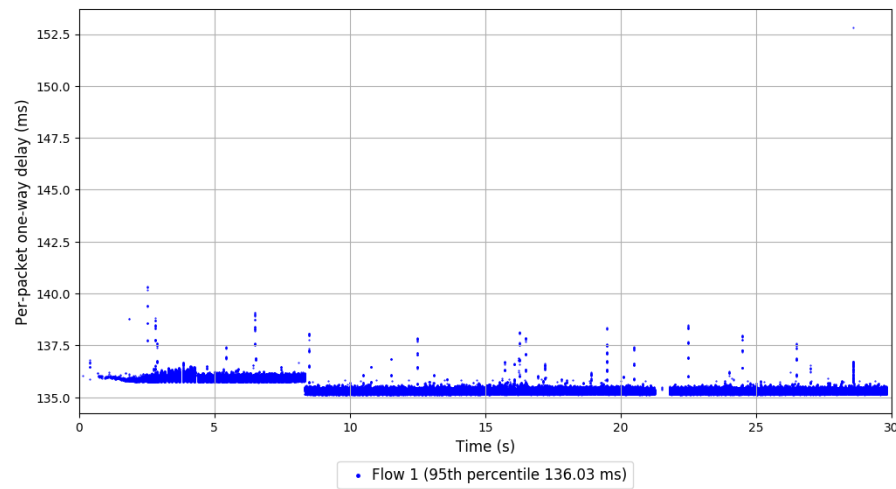
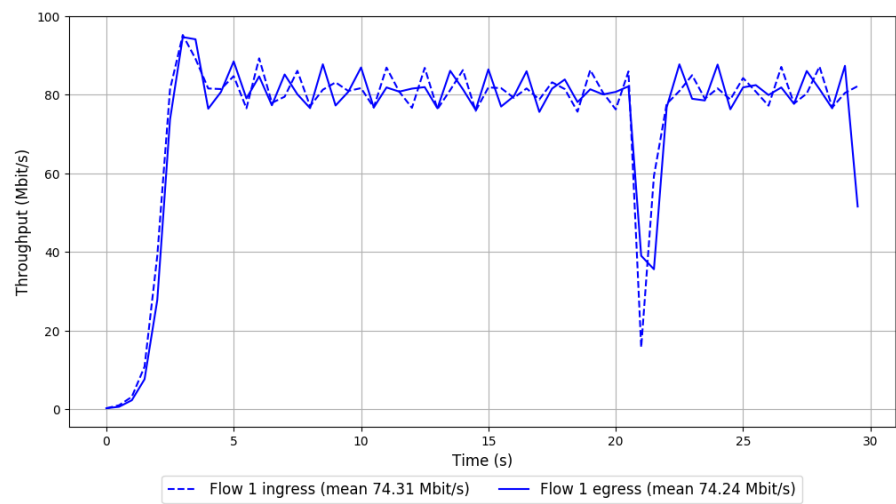
-- Flow 1:

Average throughput: 74.24 Mbit/s

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

Loss rate: 1.08%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

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

End at: 2018-04-03 16:03:34

Below is generated by plot.py at 2018-04-03 21:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.00 Mbit/s

95th percentile per-packet one-way delay: 142.104 ms

Loss rate: 0.94%

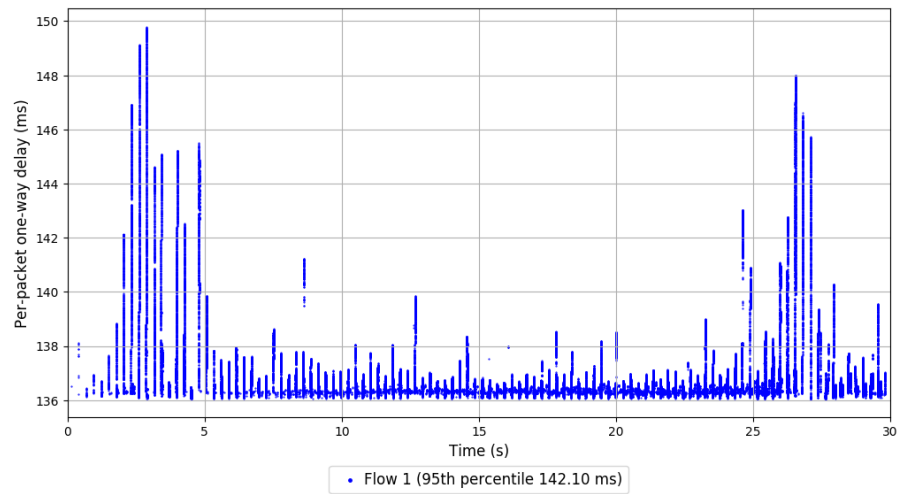
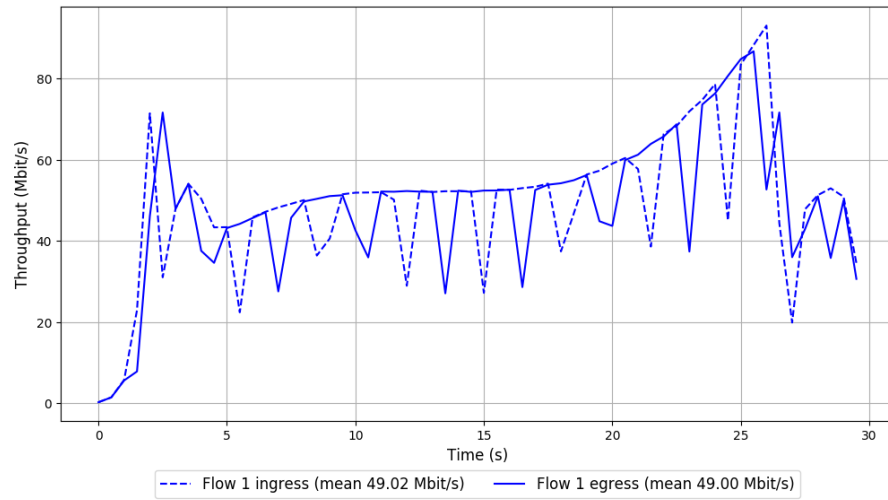
-- Flow 1:

Average throughput: 49.00 Mbit/s

95th percentile per-packet one-way delay: 142.104 ms

Loss rate: 0.94%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-03 16:18:36

End at: 2018-04-03 16:19:06

Below is generated by plot.py at 2018-04-03 21:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 144.753 ms

Loss rate: 0.34%

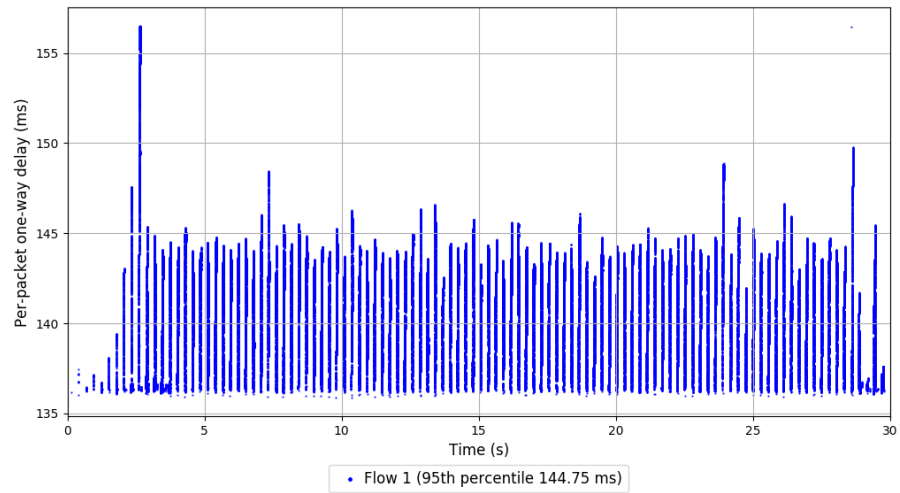
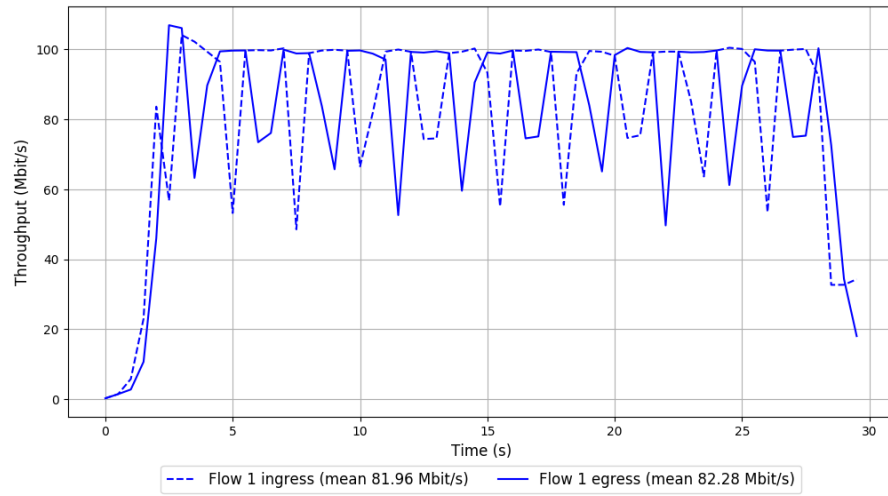
-- Flow 1:

Average throughput: 82.28 Mbit/s

95th percentile per-packet one-way delay: 144.753 ms

Loss rate: 0.34%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-03 16:34:24

End at: 2018-04-03 16:34:54

Below is generated by plot.py at 2018-04-03 21:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 143.785 ms

Loss rate: 1.27%

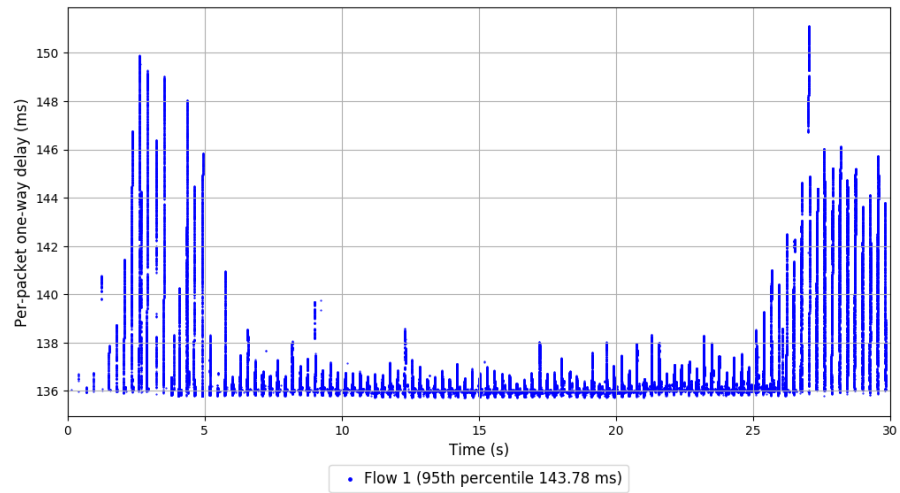
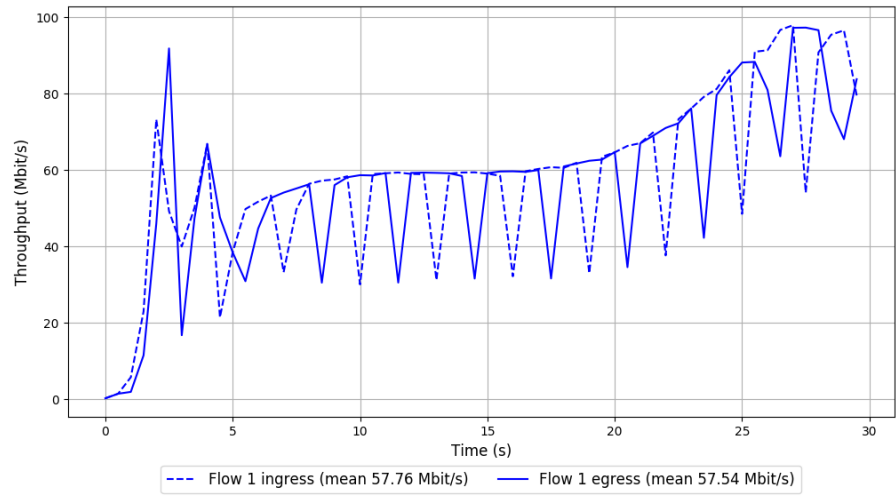
-- Flow 1:

Average throughput: 57.54 Mbit/s

95th percentile per-packet one-way delay: 143.785 ms

Loss rate: 1.27%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-03 16:50:16

End at: 2018-04-03 16:50:46

Below is generated by plot.py at 2018-04-03 21:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 144.927 ms

Loss rate: 0.97%

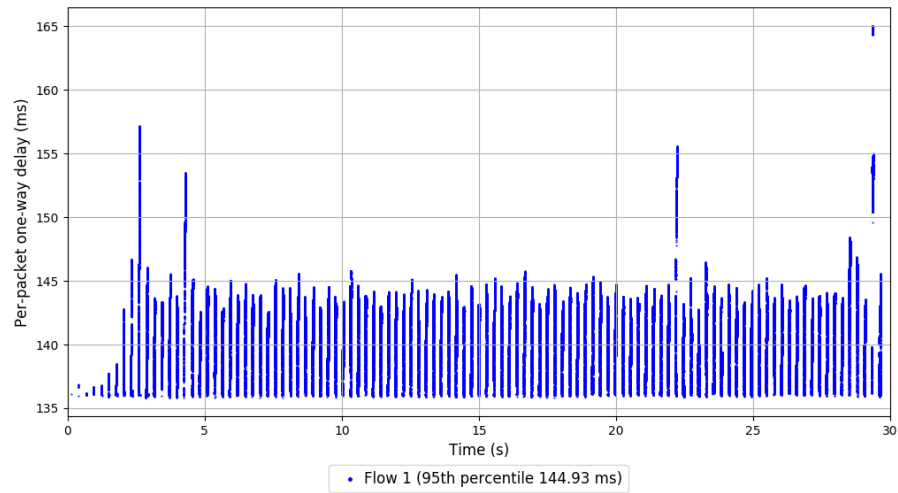
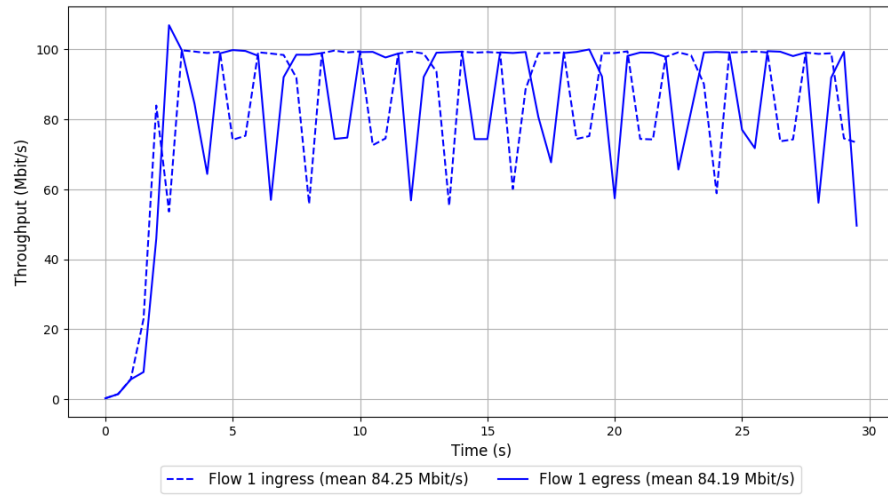
-- Flow 1:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 144.927 ms

Loss rate: 0.97%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-03 17:06:13

End at: 2018-04-03 17:06:43

Below is generated by plot.py at 2018-04-03 21:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 145.041 ms

Loss rate: 0.59%

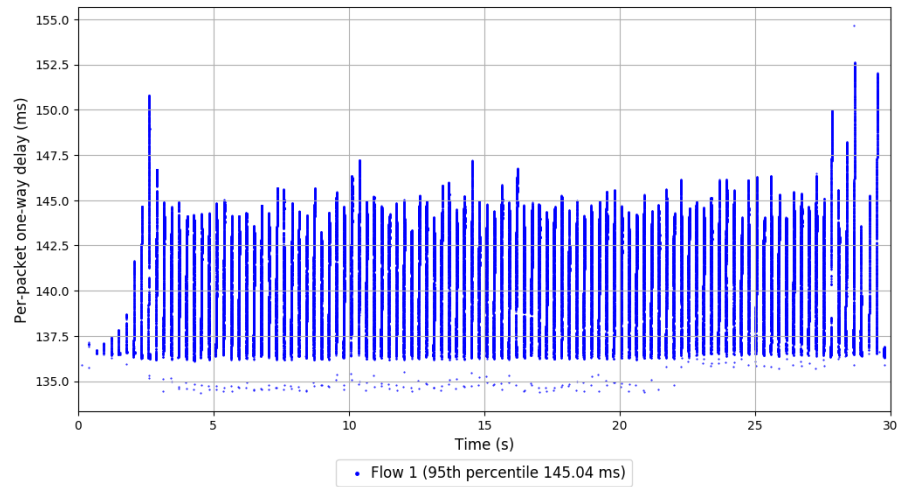
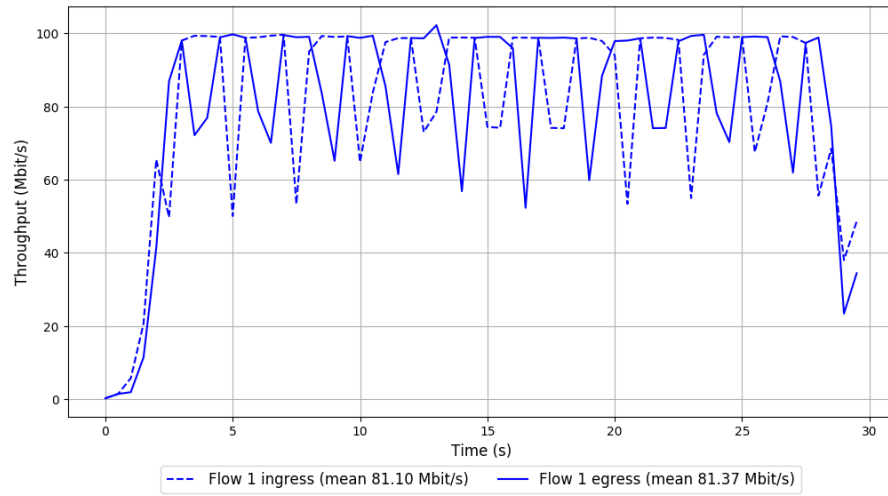
-- Flow 1:

Average throughput: 81.37 Mbit/s

95th percentile per-packet one-way delay: 145.041 ms

Loss rate: 0.59%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-03 17:22:00

End at: 2018-04-03 17:22:30

Below is generated by plot.py at 2018-04-03 21:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.08 Mbit/s

95th percentile per-packet one-way delay: 144.247 ms

Loss rate: 1.37%

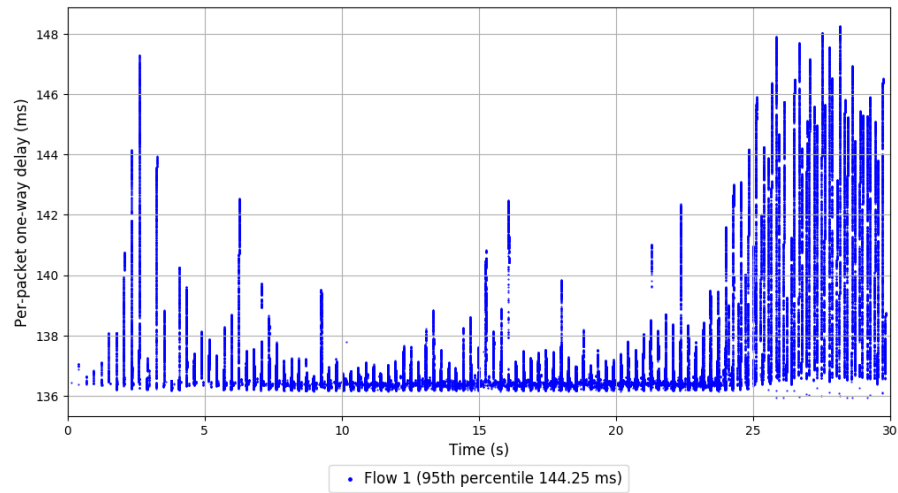
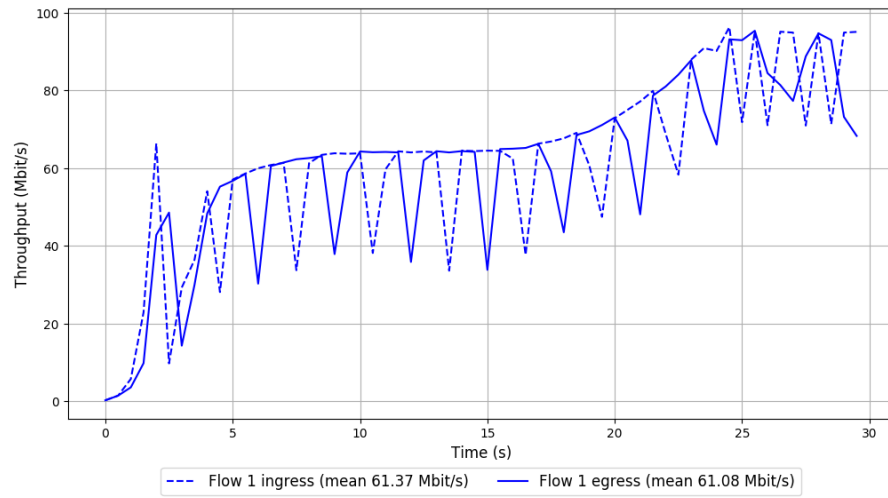
-- Flow 1:

Average throughput: 61.08 Mbit/s

95th percentile per-packet one-way delay: 144.247 ms

Loss rate: 1.37%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-03 17:37:43

End at: 2018-04-03 17:38:13

Below is generated by plot.py at 2018-04-03 21:23:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.53 Mbit/s

95th percentile per-packet one-way delay: 145.244 ms

Loss rate: 1.00%

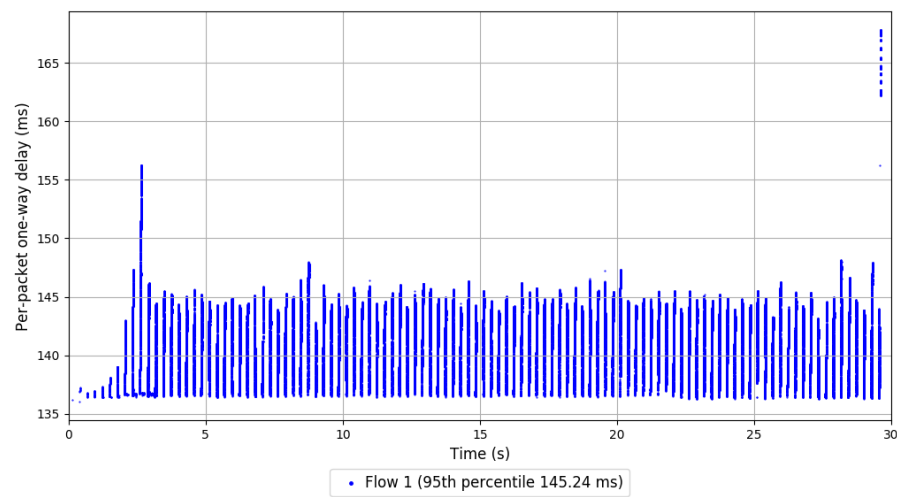
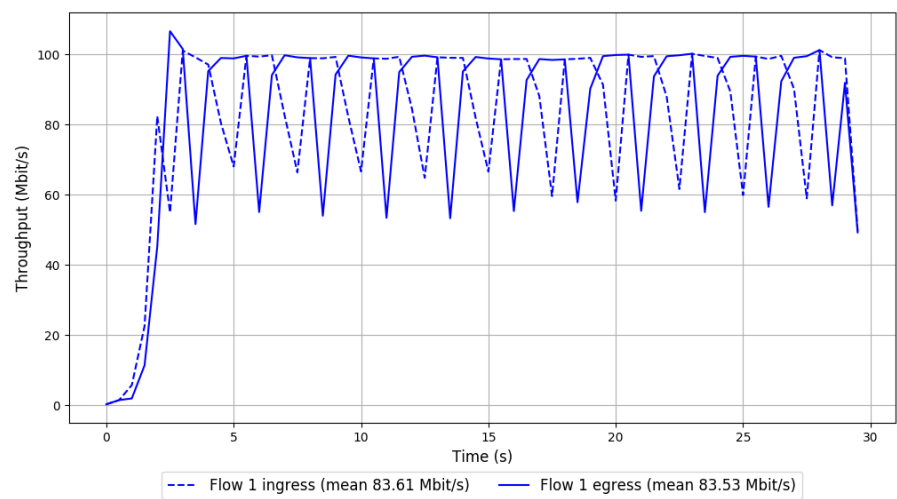
-- Flow 1:

Average throughput: 83.53 Mbit/s

95th percentile per-packet one-way delay: 145.244 ms

Loss rate: 1.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-03 17:53:09

End at: 2018-04-03 17:53:39

Below is generated by plot.py at 2018-04-03 21:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.55 Mbit/s

95th percentile per-packet one-way delay: 144.885 ms

Loss rate: 0.99%

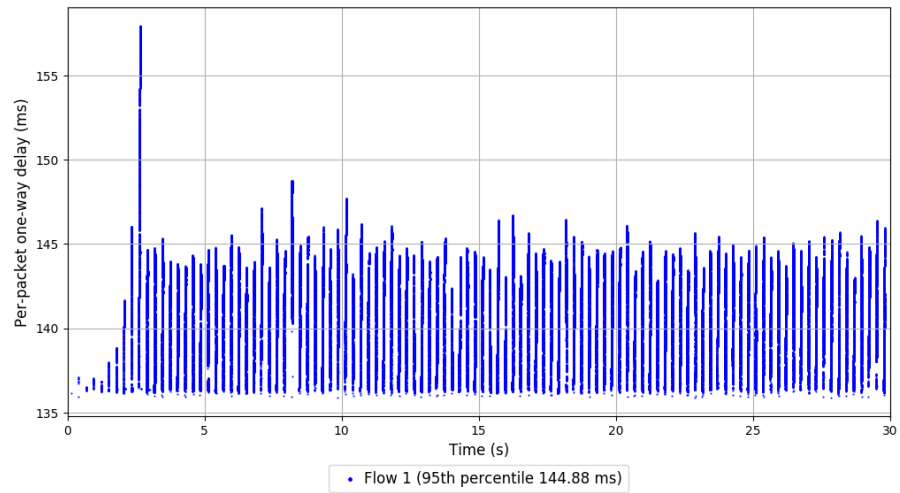
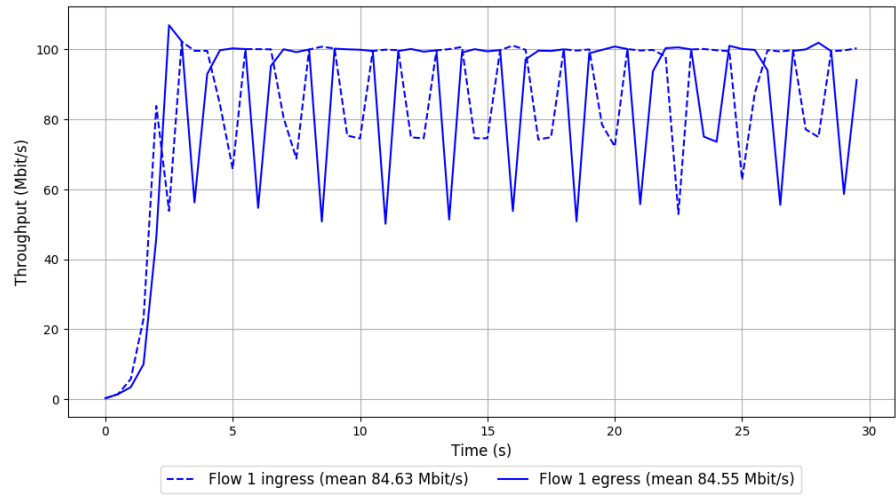
-- Flow 1:

Average throughput: 84.55 Mbit/s

95th percentile per-packet one-way delay: 144.885 ms

Loss rate: 0.99%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-03 18:08:57

End at: 2018-04-03 18:09:27

Below is generated by plot.py at 2018-04-03 21:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.00 Mbit/s

95th percentile per-packet one-way delay: 143.727 ms

Loss rate: 0.52%

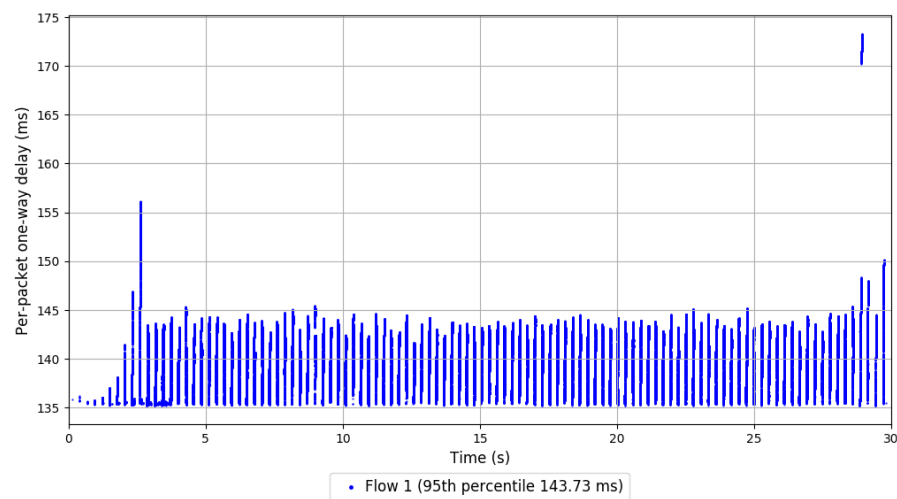
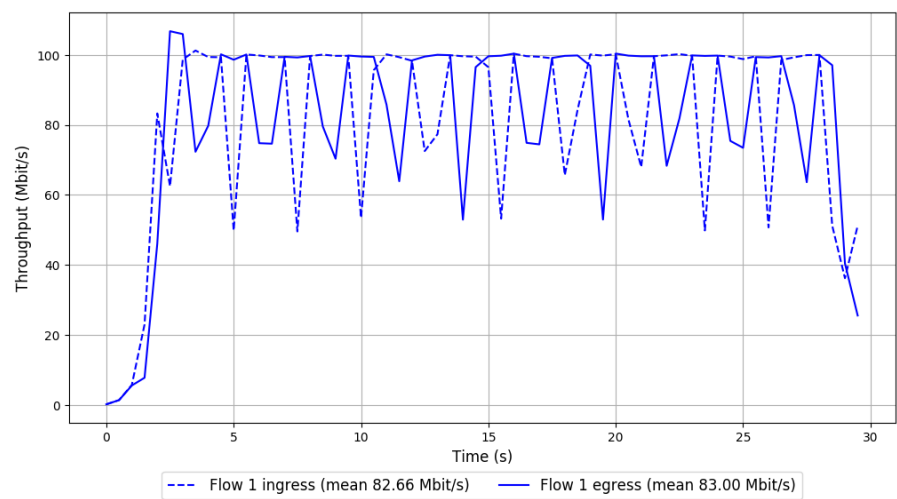
-- Flow 1:

Average throughput: 83.00 Mbit/s

95th percentile per-packet one-way delay: 143.727 ms

Loss rate: 0.52%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-03 18:24:33

End at: 2018-04-03 18:25:03

Below is generated by plot.py at 2018-04-03 21:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.87 Mbit/s

95th percentile per-packet one-way delay: 144.395 ms

Loss rate: 1.06%

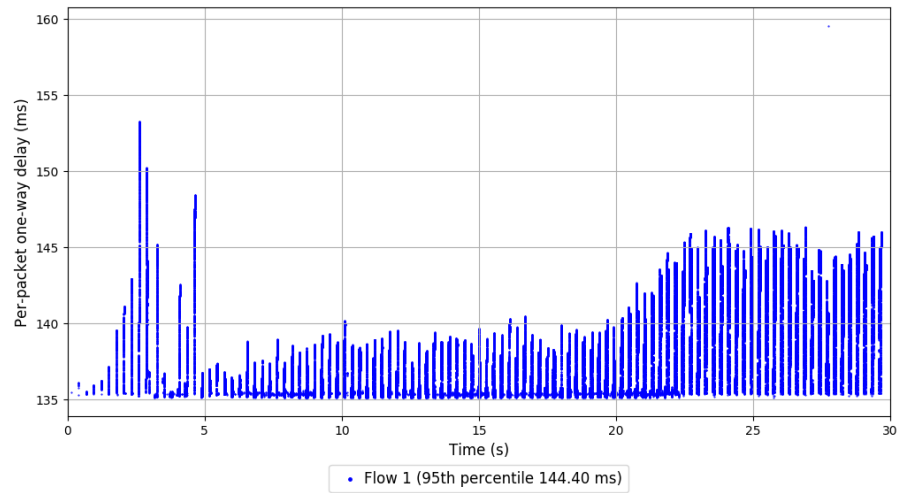
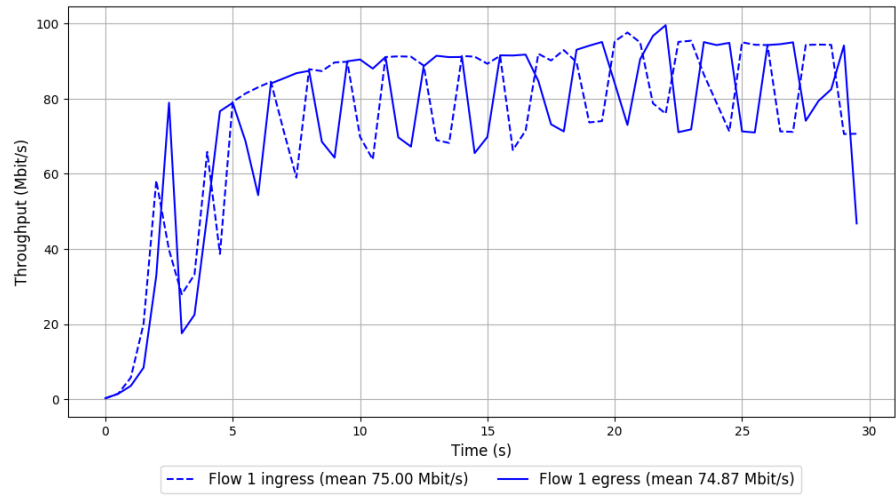
-- Flow 1:

Average throughput: 74.87 Mbit/s

95th percentile per-packet one-way delay: 144.395 ms

Loss rate: 1.06%

Run 10: Report of TCP Cubic — Data Link

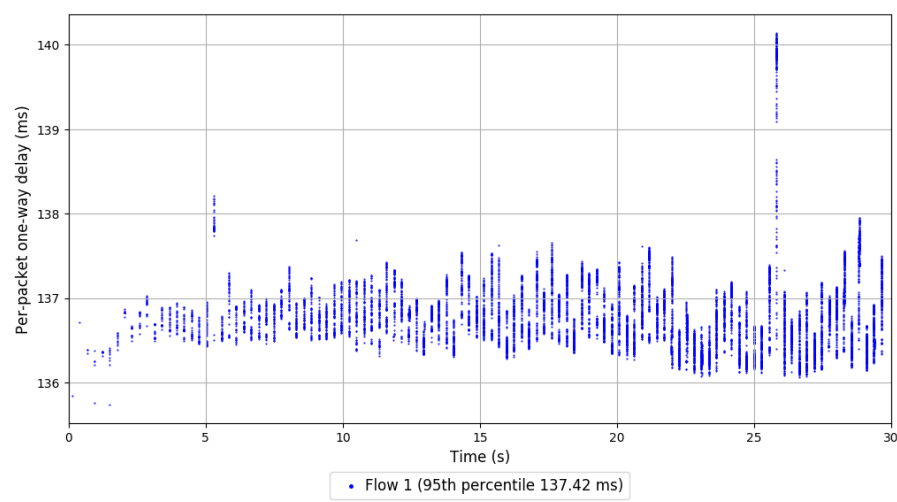
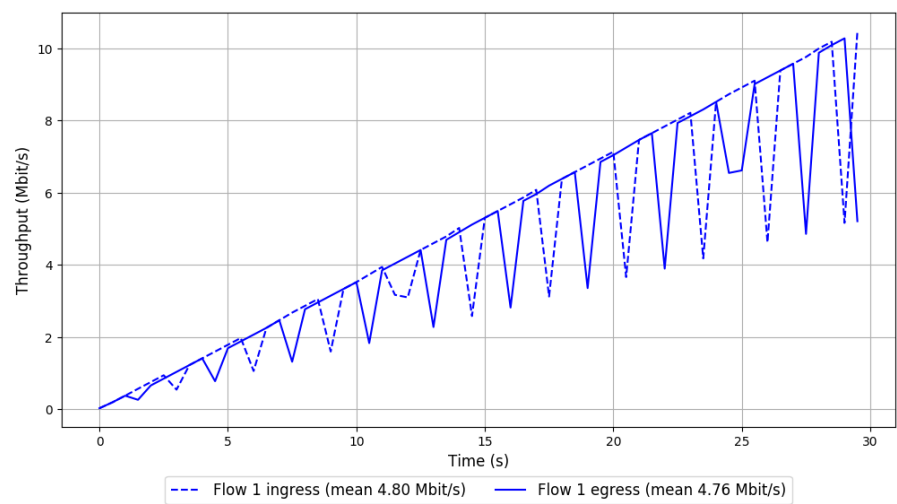


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-03 16:07:23
End at: 2018-04-03 16:07:53

# Below is generated by plot.py at 2018-04-03 21:23:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 137.421 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 137.421 ms
Loss rate: 1.84%
```

Run 1: Report of LEDBAT — Data Link

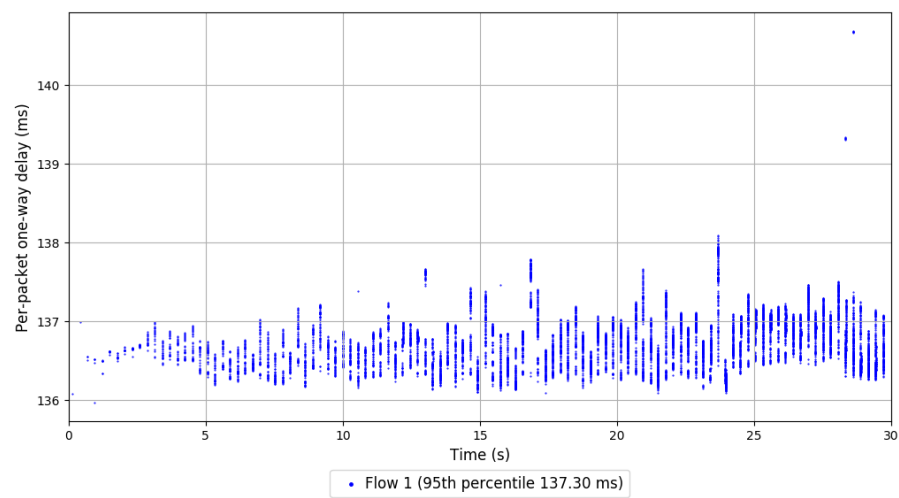
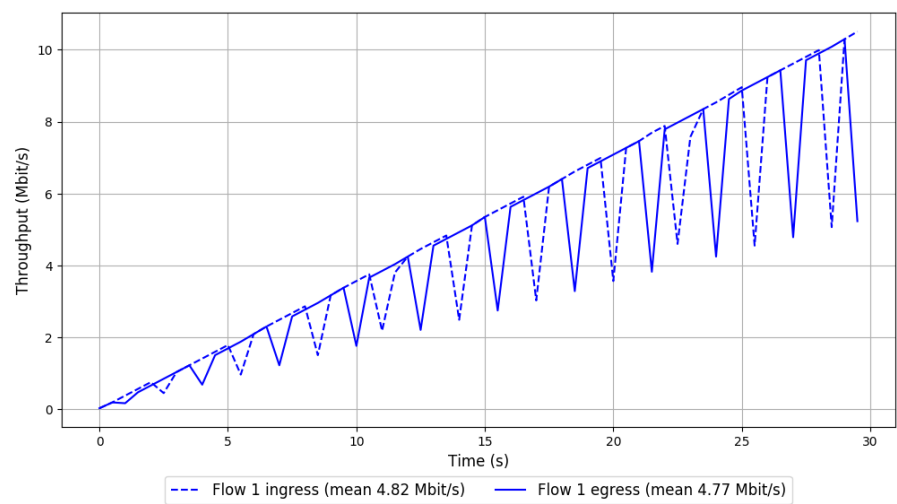


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-03 16:23:00
End at: 2018-04-03 16:23:30

# Below is generated by plot.py at 2018-04-03 21:23:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 137.299 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 4.77 Mbit/s
95th percentile per-packet one-way delay: 137.299 ms
Loss rate: 1.84%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-03 16:38:48

End at: 2018-04-03 16:39:18

Below is generated by plot.py at 2018-04-03 21:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 136.838 ms

Loss rate: 1.84%

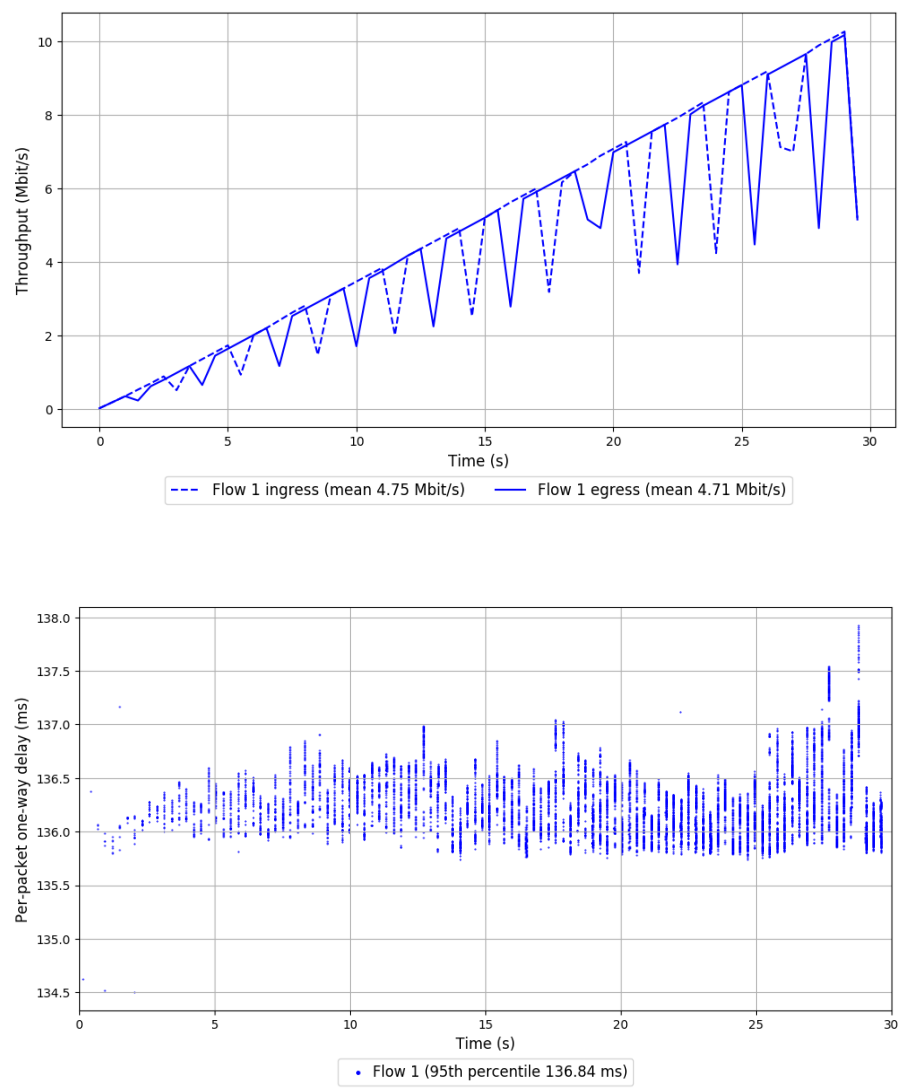
-- Flow 1:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 136.838 ms

Loss rate: 1.84%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-03 16:54:41

End at: 2018-04-03 16:55:11

Below is generated by plot.py at 2018-04-03 21:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.73 Mbit/s

95th percentile per-packet one-way delay: 137.207 ms

Loss rate: 1.84%

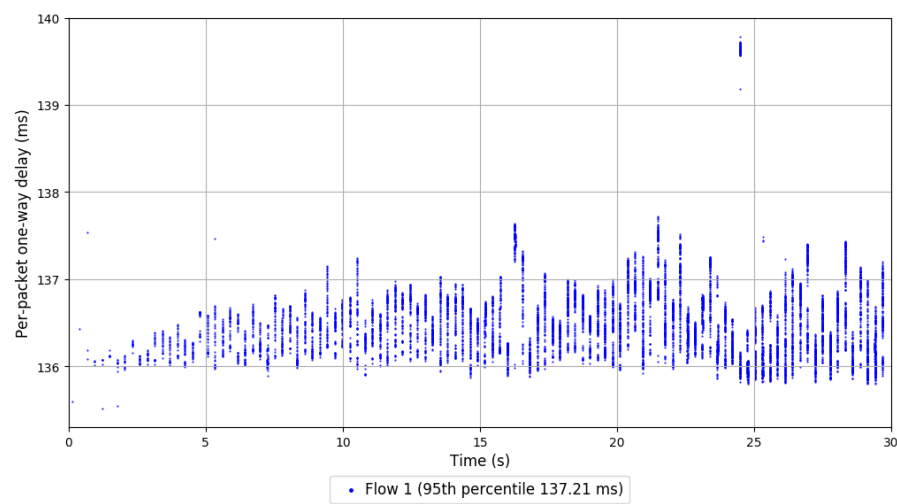
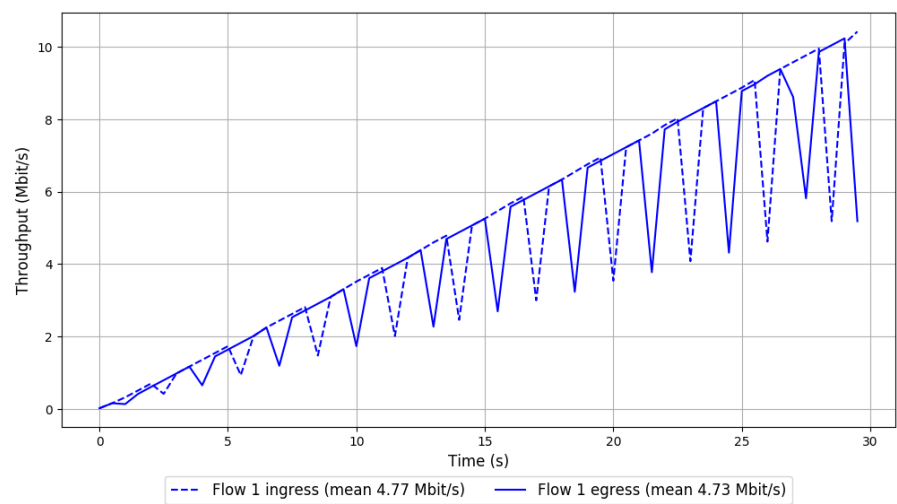
-- Flow 1:

Average throughput: 4.73 Mbit/s

95th percentile per-packet one-way delay: 137.207 ms

Loss rate: 1.84%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-03 17:10:32

End at: 2018-04-03 17:11:02

Below is generated by plot.py at 2018-04-03 21:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.362 ms

Loss rate: 1.83%

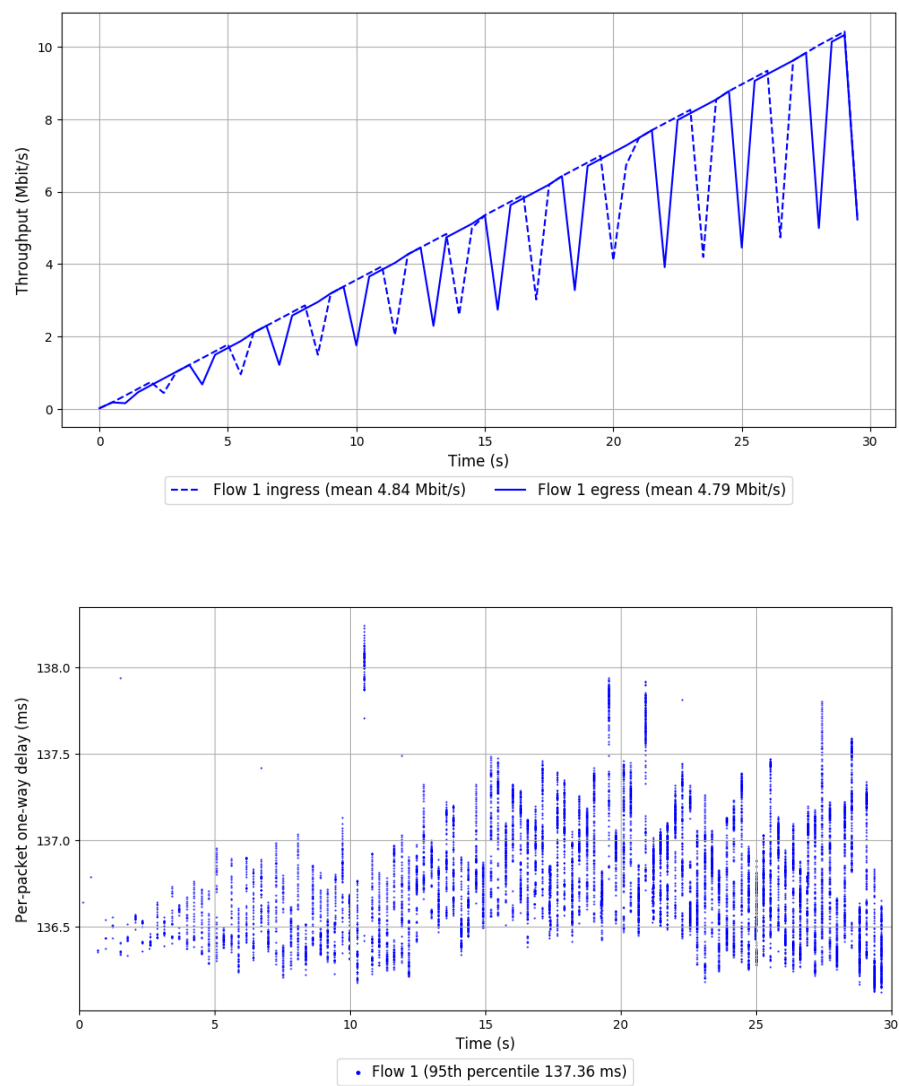
-- Flow 1:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.362 ms

Loss rate: 1.83%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-03 17:26:21

End at: 2018-04-03 17:26:51

Below is generated by plot.py at 2018-04-03 21:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 137.588 ms

Loss rate: 1.91%

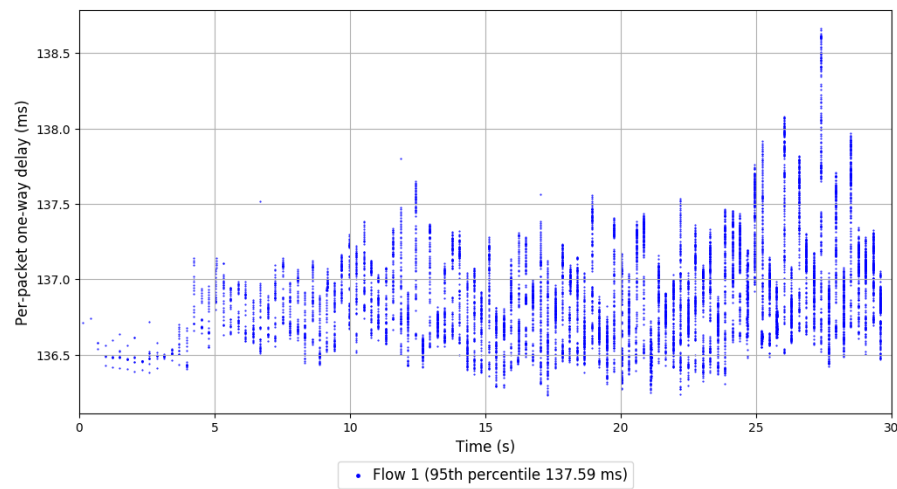
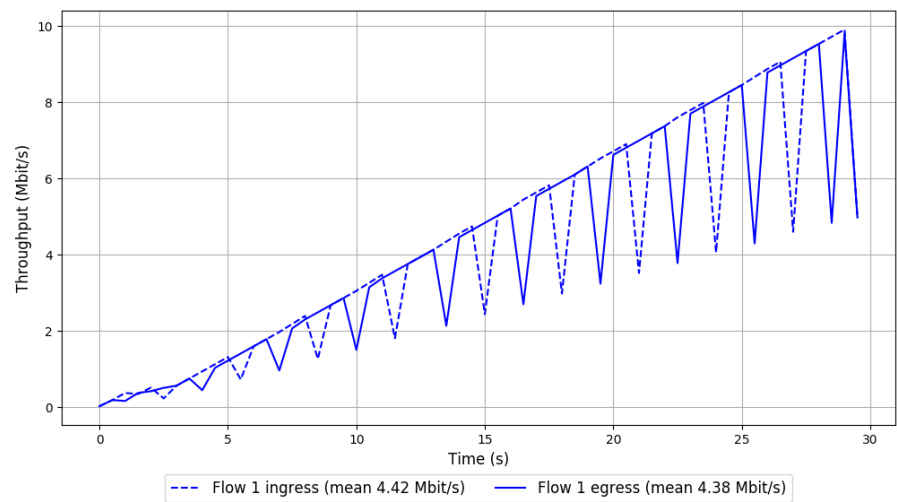
-- Flow 1:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 137.588 ms

Loss rate: 1.91%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-03 17:42:01

End at: 2018-04-03 17:42:31

Below is generated by plot.py at 2018-04-03 21:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 137.100 ms

Loss rate: 4.13%

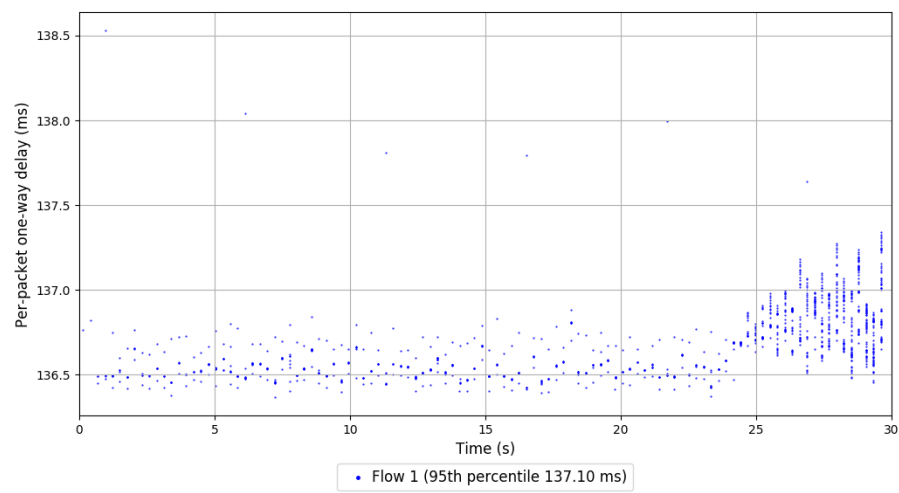
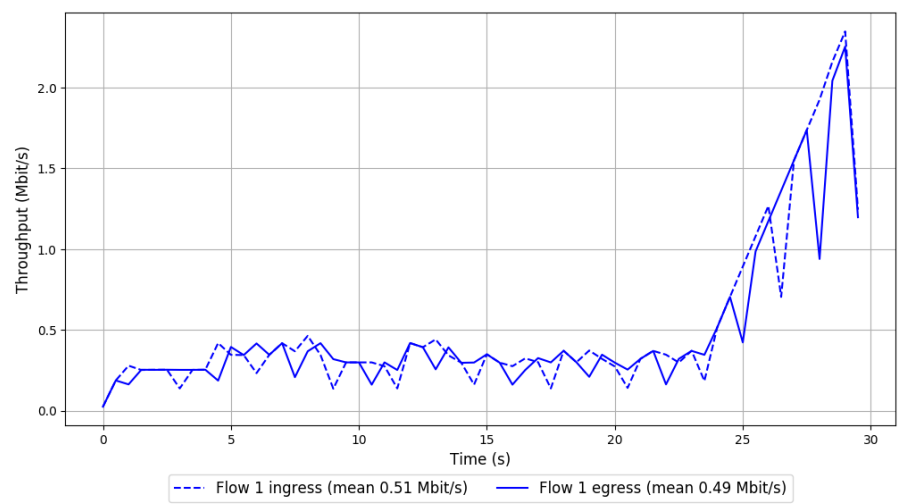
-- Flow 1:

Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 137.100 ms

Loss rate: 4.13%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-03 17:57:28

End at: 2018-04-03 17:57:58

Below is generated by plot.py at 2018-04-03 21:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.76 Mbit/s

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

Loss rate: 1.84%

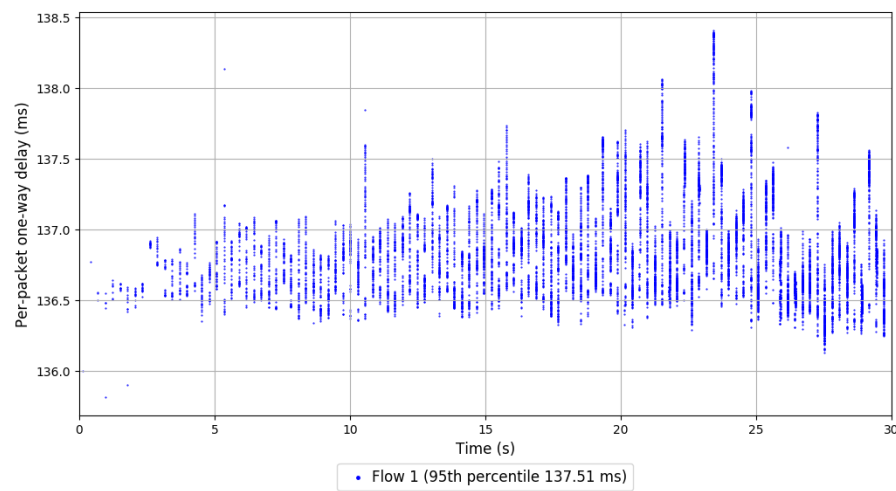
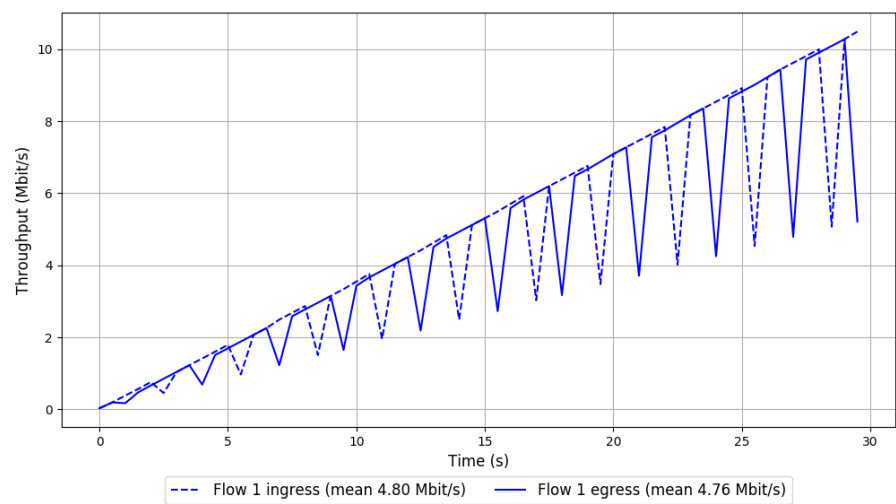
-- Flow 1:

Average throughput: 4.76 Mbit/s

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

Loss rate: 1.84%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-03 18:13:17

End at: 2018-04-03 18:13:48

Below is generated by plot.py at 2018-04-03 21:23:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 1.82%

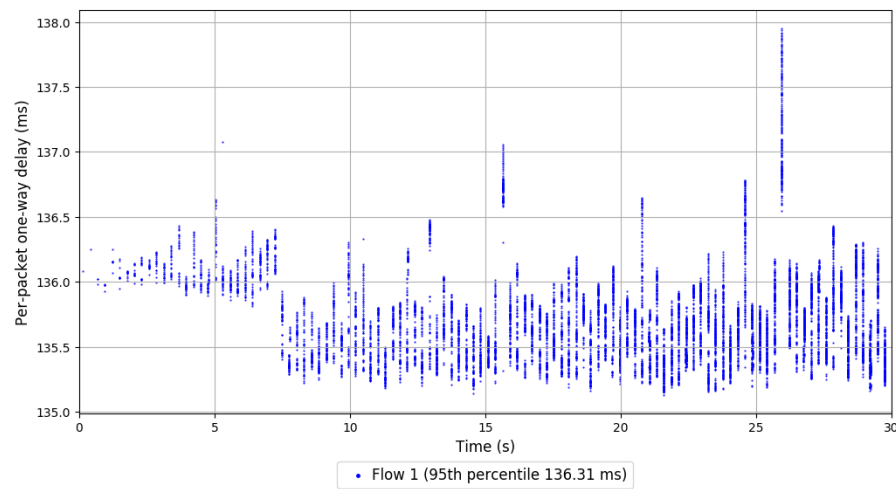
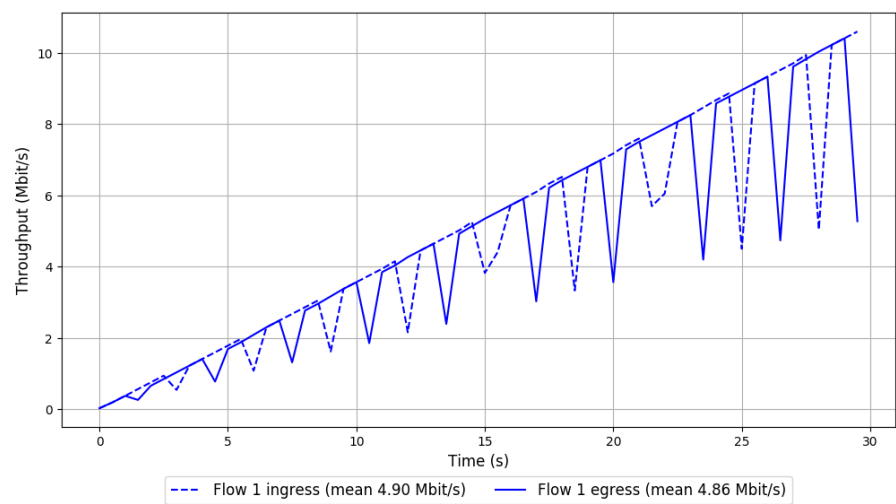
-- Flow 1:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 136.313 ms

Loss rate: 1.82%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-03 18:28:44

End at: 2018-04-03 18:29:14

Below is generated by plot.py at 2018-04-03 21:23:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 136.619 ms

Loss rate: 1.82%

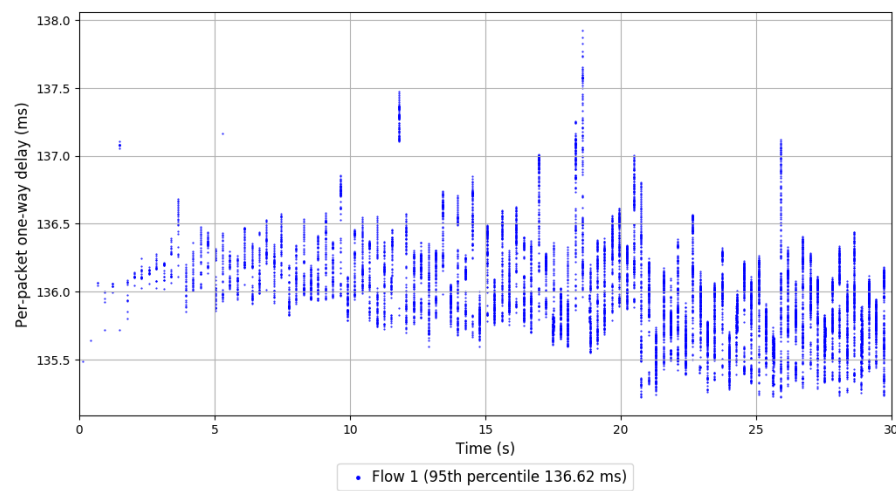
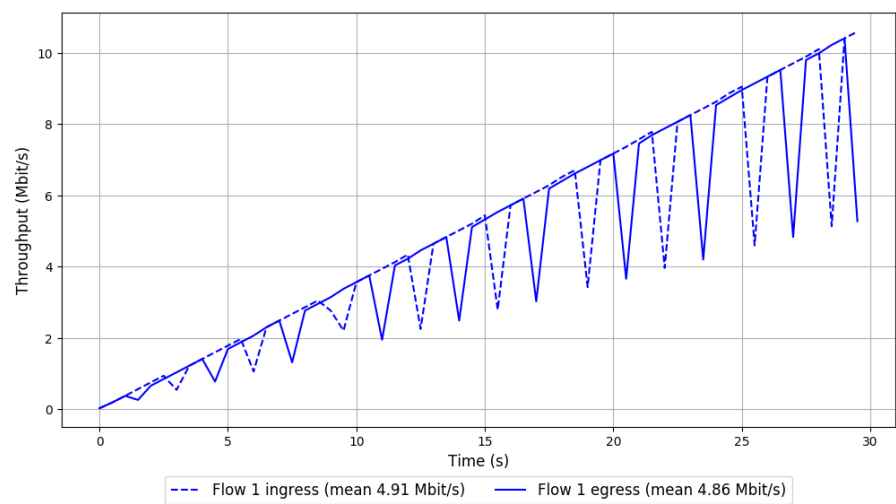
-- Flow 1:

Average throughput: 4.86 Mbit/s

95th percentile per-packet one-way delay: 136.619 ms

Loss rate: 1.82%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-04-03 15:56:38

End at: 2018-04-03 15:57:08

Below is generated by plot.py at 2018-04-03 21:33:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.15 Mbit/s

95th percentile per-packet one-way delay: 217.144 ms

Loss rate: 3.15%

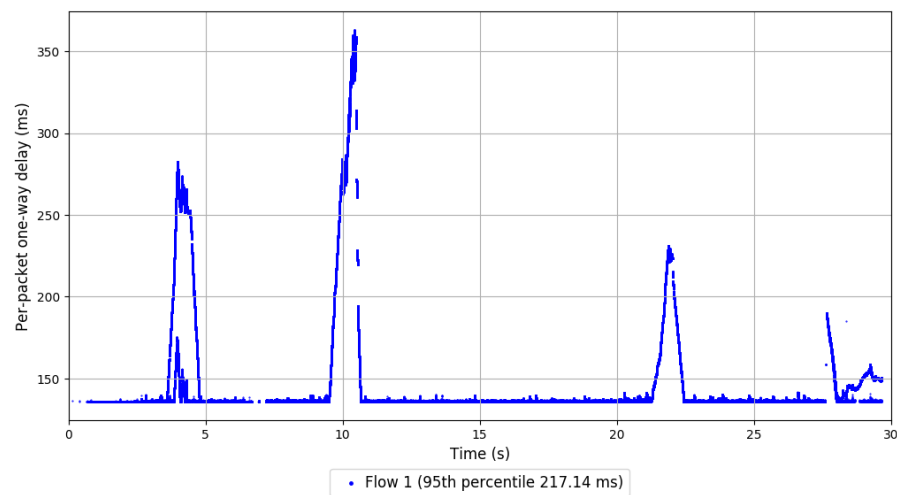
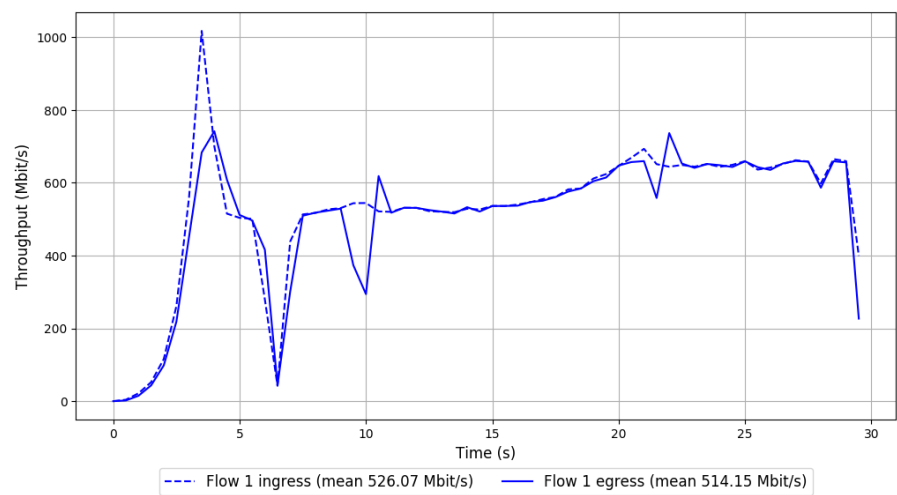
-- Flow 1:

Average throughput: 514.15 Mbit/s

95th percentile per-packet one-way delay: 217.144 ms

Loss rate: 3.15%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-03 16:12:18

End at: 2018-04-03 16:12:48

Below is generated by plot.py at 2018-04-03 21:33:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.43 Mbit/s

95th percentile per-packet one-way delay: 175.199 ms

Loss rate: 1.94%

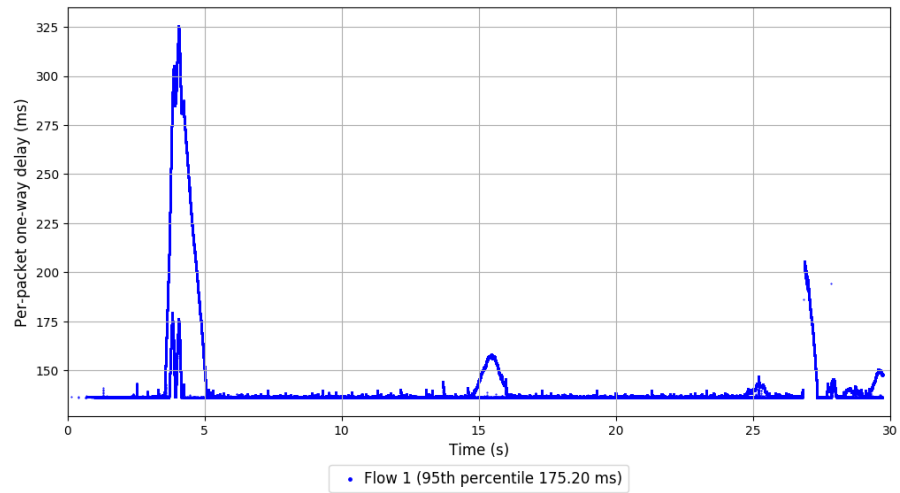
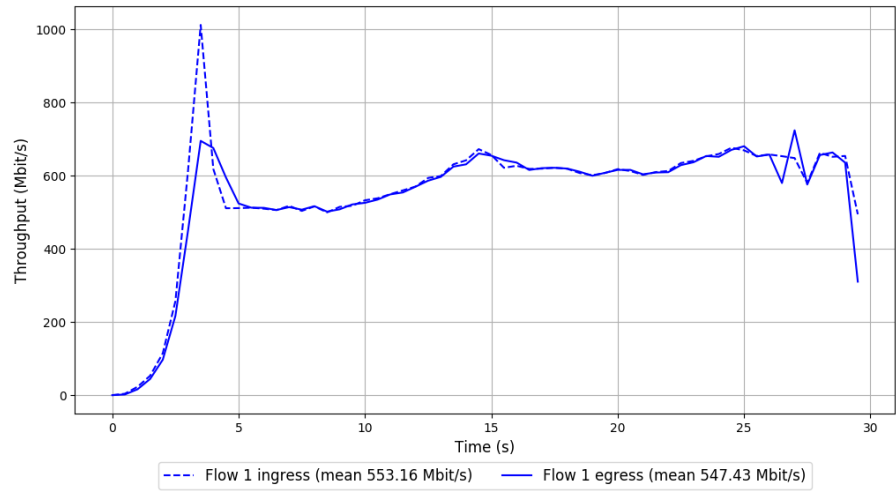
-- Flow 1:

Average throughput: 547.43 Mbit/s

95th percentile per-packet one-way delay: 175.199 ms

Loss rate: 1.94%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-03 16:28:10

End at: 2018-04-03 16:28:40

Below is generated by plot.py at 2018-04-03 21:33:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.82 Mbit/s

95th percentile per-packet one-way delay: 165.404 ms

Loss rate: 1.96%

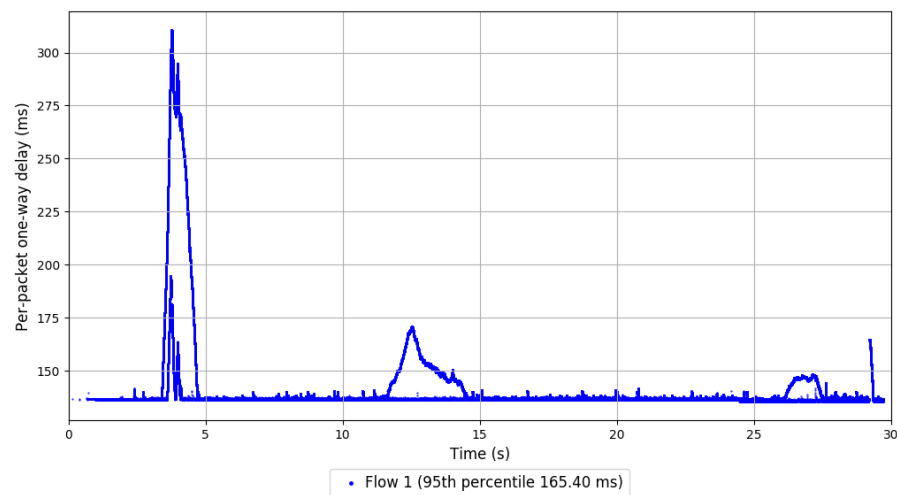
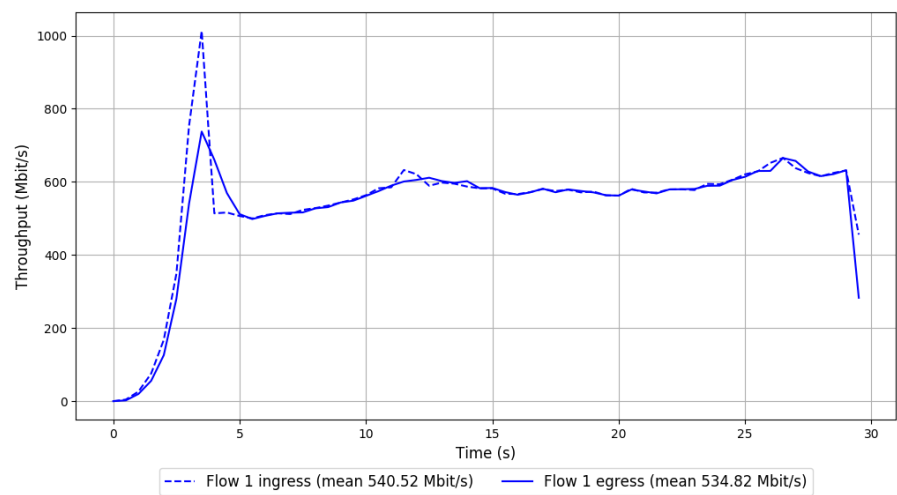
-- Flow 1:

Average throughput: 534.82 Mbit/s

95th percentile per-packet one-way delay: 165.404 ms

Loss rate: 1.96%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-03 16:44:01

End at: 2018-04-03 16:44:31

Below is generated by plot.py at 2018-04-03 21:33:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.02 Mbit/s

95th percentile per-packet one-way delay: 176.956 ms

Loss rate: 1.87%

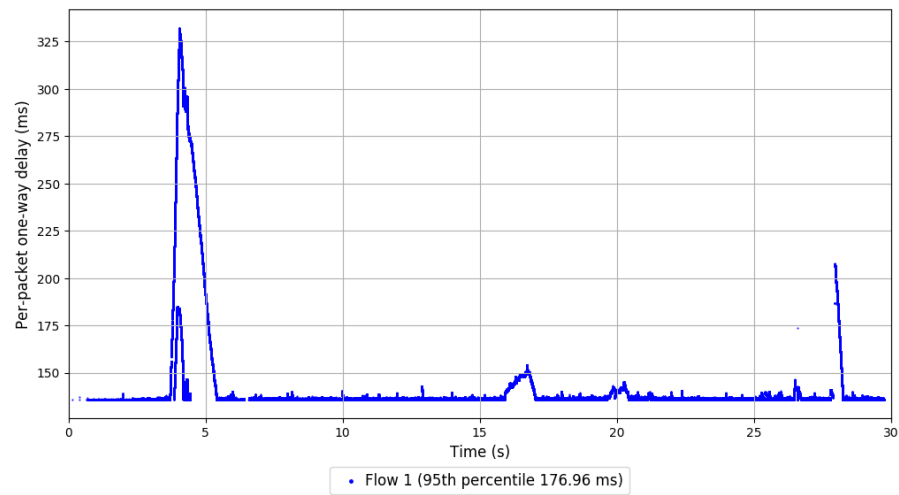
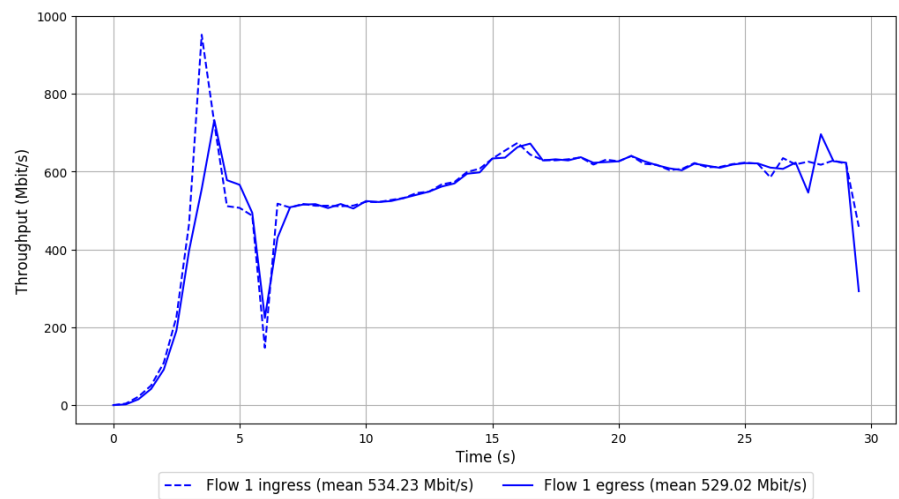
-- Flow 1:

Average throughput: 529.02 Mbit/s

95th percentile per-packet one-way delay: 176.956 ms

Loss rate: 1.87%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-03 16:59:53

End at: 2018-04-03 17:00:23

Below is generated by plot.py at 2018-04-03 21:33:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 453.13 Mbit/s

95th percentile per-packet one-way delay: 260.340 ms

Loss rate: 3.22%

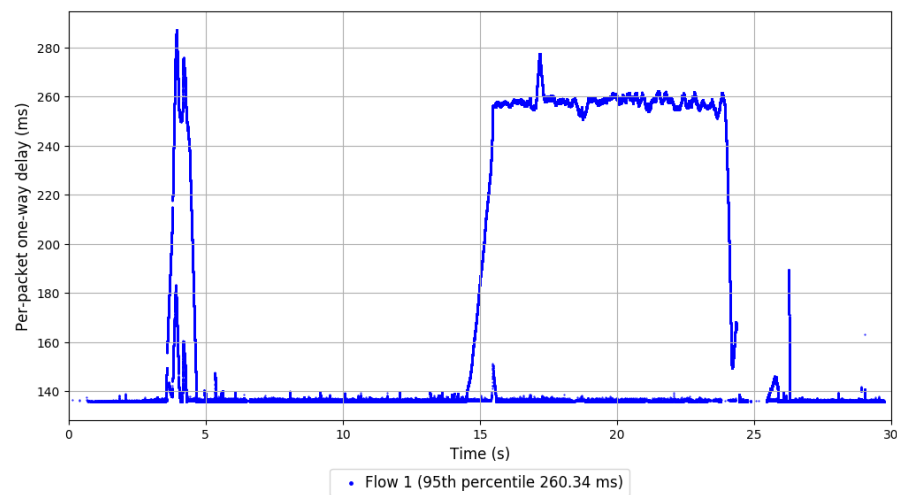
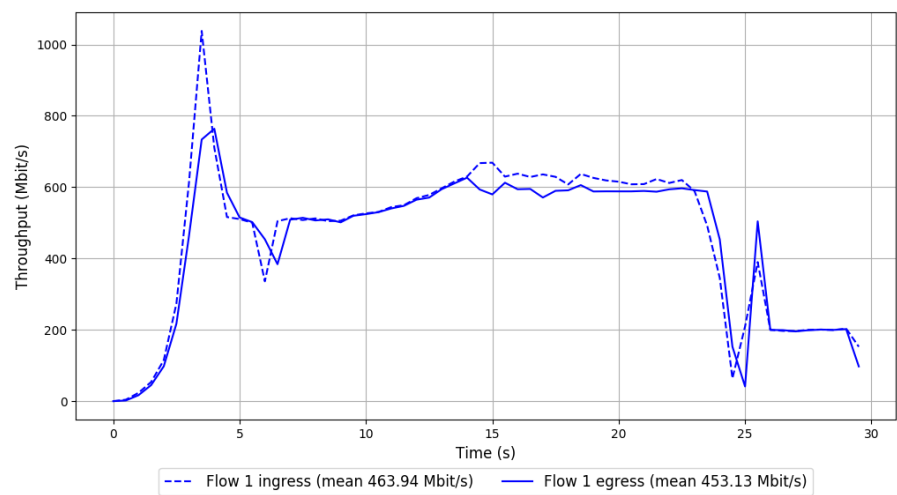
-- Flow 1:

Average throughput: 453.13 Mbit/s

95th percentile per-packet one-way delay: 260.340 ms

Loss rate: 3.22%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-03 17:15:44

End at: 2018-04-03 17:16:14

Below is generated by plot.py at 2018-04-03 21:34:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.78 Mbit/s

95th percentile per-packet one-way delay: 201.023 ms

Loss rate: 2.26%

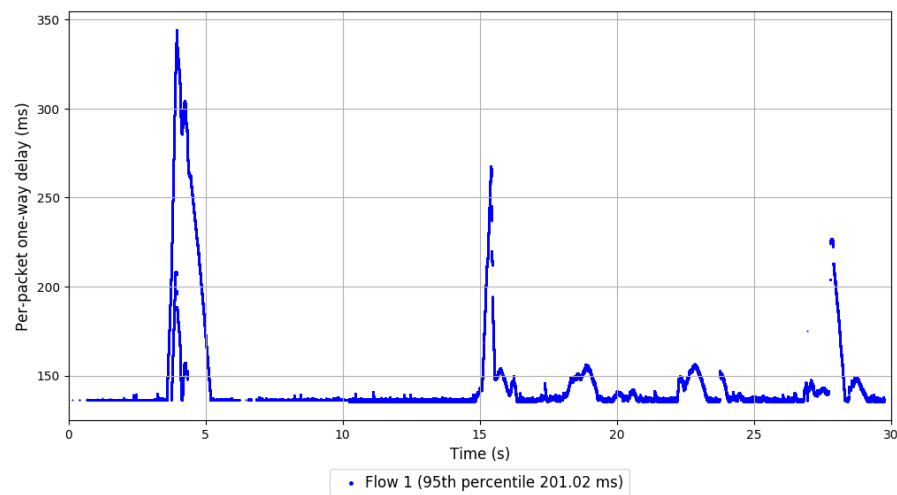
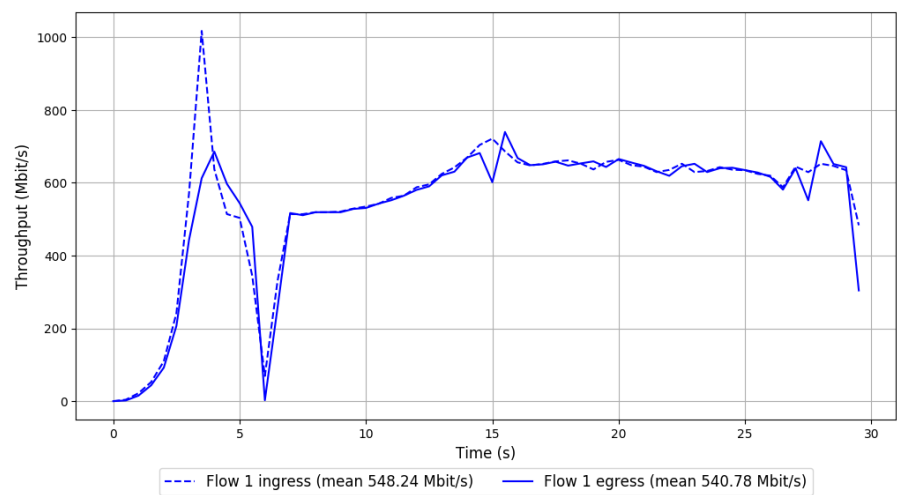
-- Flow 1:

Average throughput: 540.78 Mbit/s

95th percentile per-packet one-way delay: 201.023 ms

Loss rate: 2.26%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-03 17:31:35

End at: 2018-04-03 17:32:05

Below is generated by plot.py at 2018-04-03 21:34:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.75 Mbit/s

95th percentile per-packet one-way delay: 314.303 ms

Loss rate: 2.78%

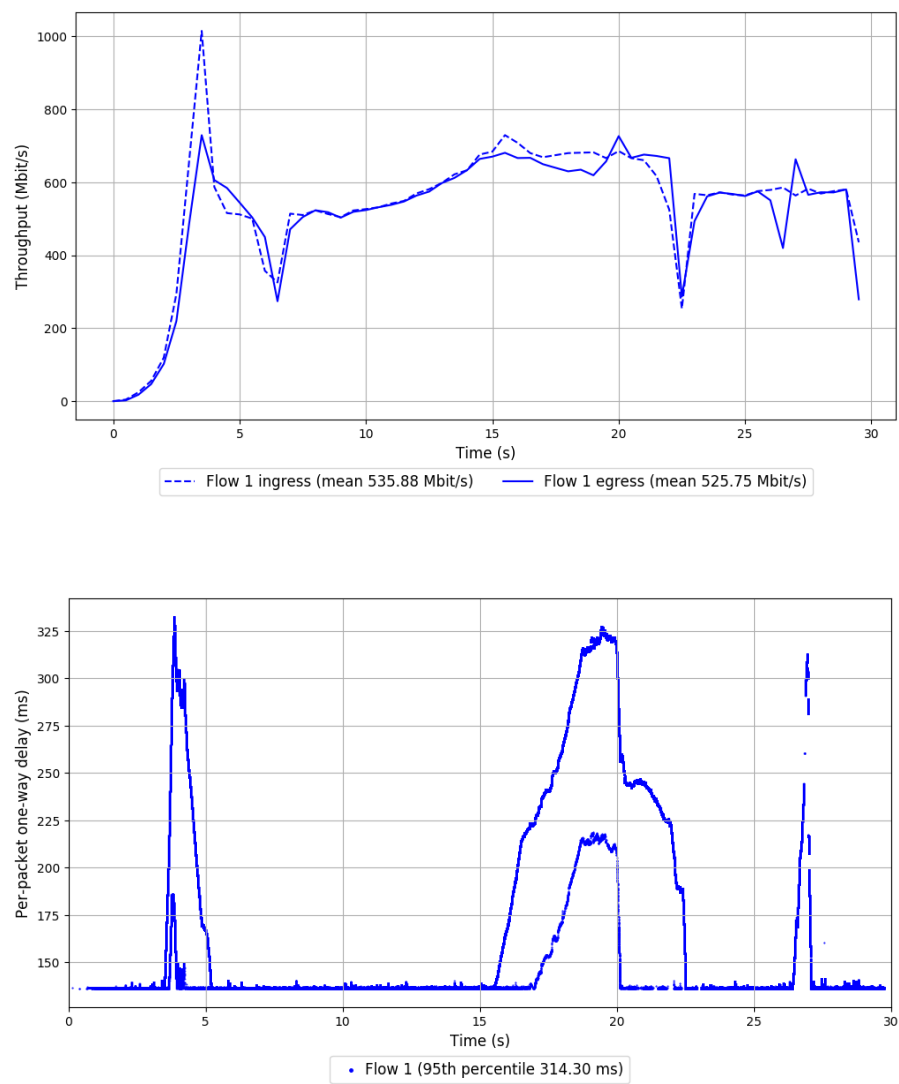
-- Flow 1:

Average throughput: 525.75 Mbit/s

95th percentile per-packet one-way delay: 314.303 ms

Loss rate: 2.78%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-03 17:46:52

End at: 2018-04-03 17:47:22

Below is generated by plot.py at 2018-04-03 21:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 570.84 Mbit/s

95th percentile per-packet one-way delay: 182.852 ms

Loss rate: 1.98%

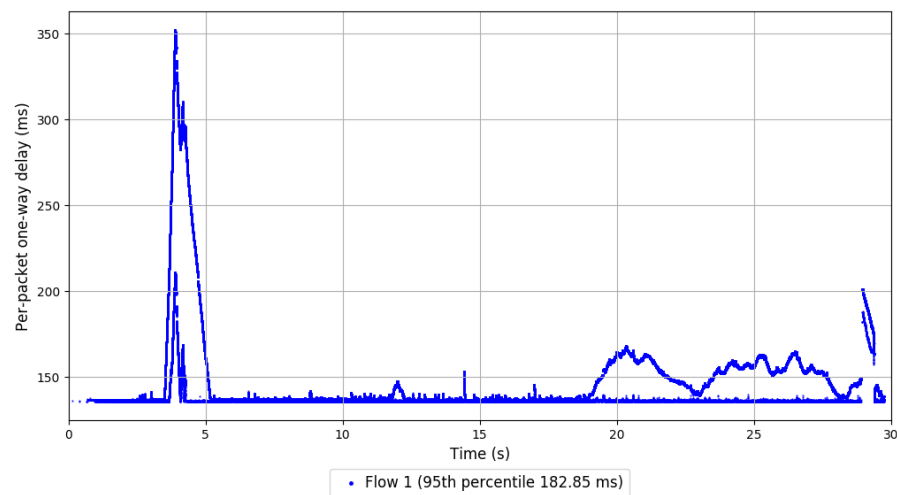
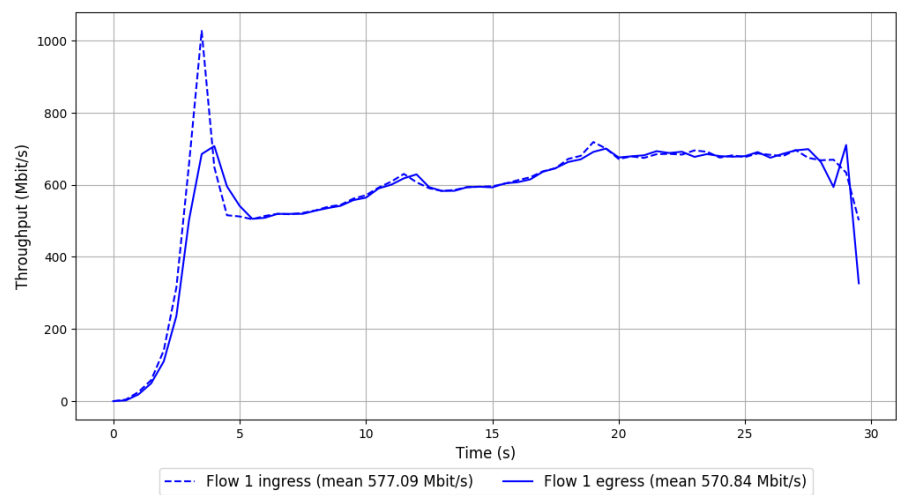
-- Flow 1:

Average throughput: 570.84 Mbit/s

95th percentile per-packet one-way delay: 182.852 ms

Loss rate: 1.98%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-03 18:02:40

End at: 2018-04-03 18:03:10

Below is generated by plot.py at 2018-04-03 21:44:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.74 Mbit/s

95th percentile per-packet one-way delay: 263.417 ms

Loss rate: 2.48%

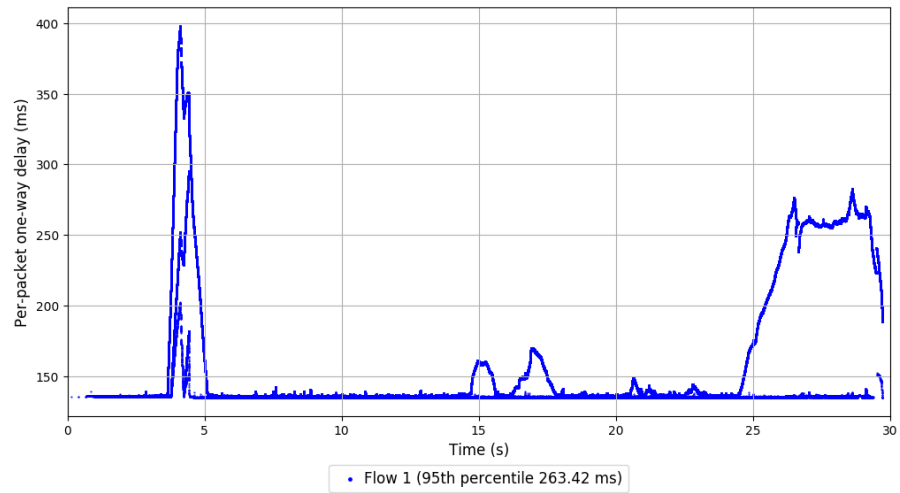
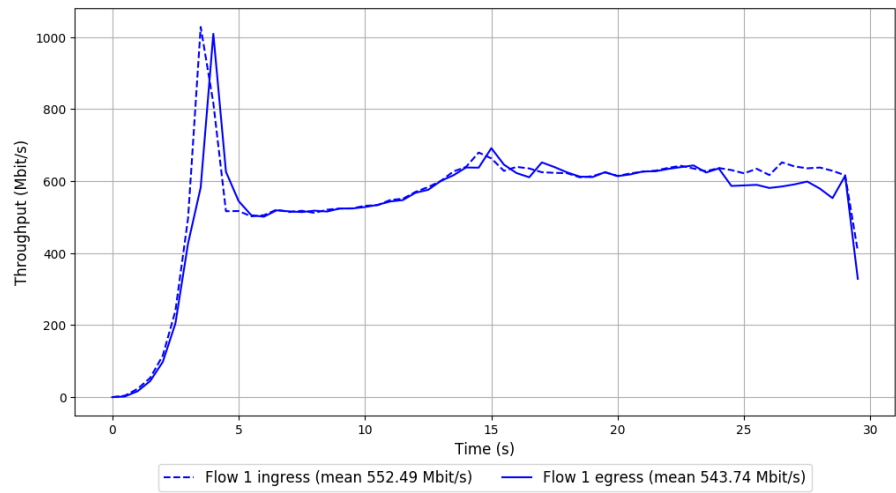
-- Flow 1:

Average throughput: 543.74 Mbit/s

95th percentile per-packet one-way delay: 263.417 ms

Loss rate: 2.48%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-03 18:18:14

End at: 2018-04-03 18:18:44

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 541.43 Mbit/s

95th percentile per-packet one-way delay: 265.969 ms

Loss rate: 3.79%

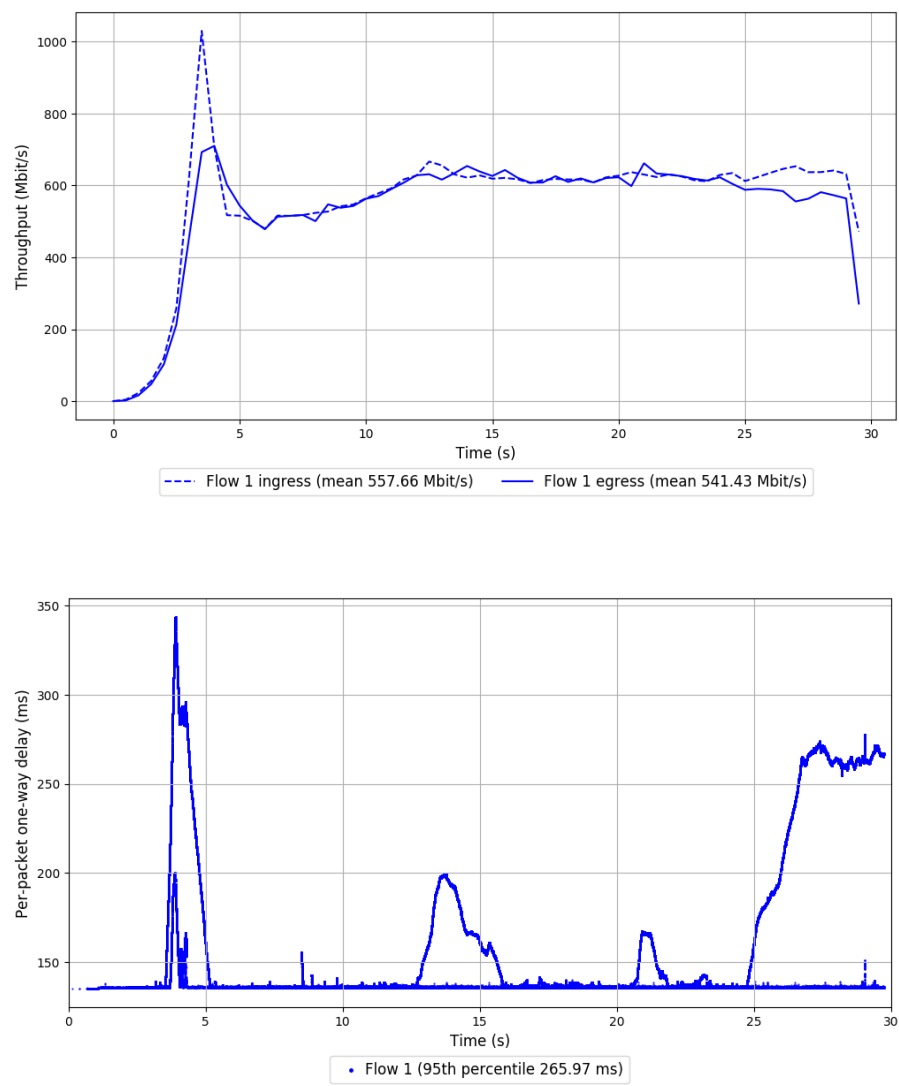
-- Flow 1:

Average throughput: 541.43 Mbit/s

95th percentile per-packet one-way delay: 265.969 ms

Loss rate: 3.79%

Run 10: Report of PCC — Data Link

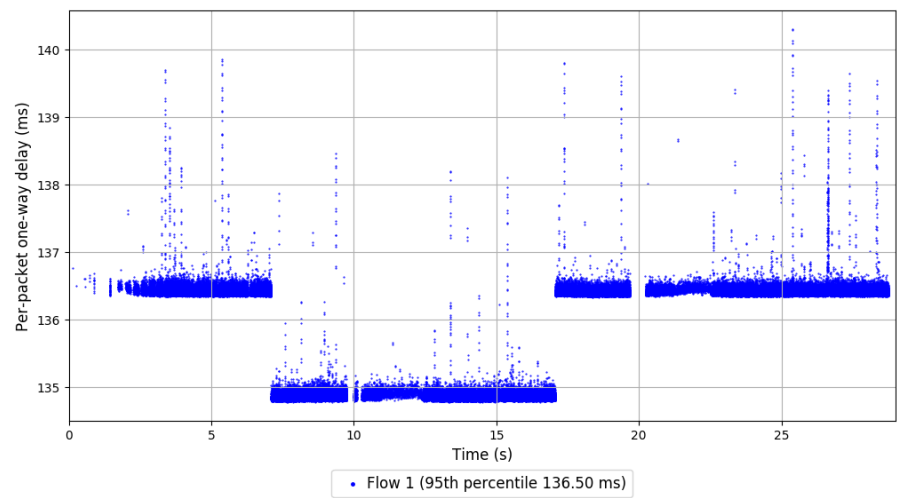
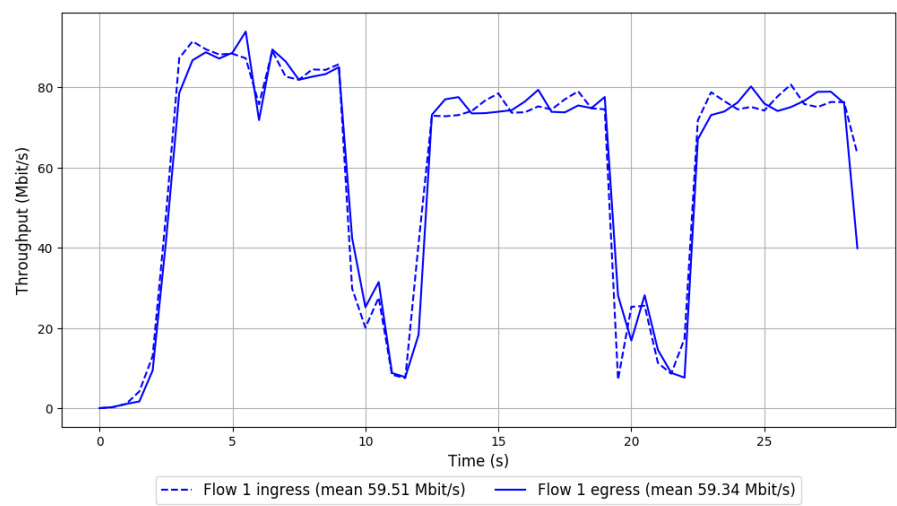


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-03 16:09:57
End at: 2018-04-03 16:10:27

# Below is generated by plot.py at 2018-04-03 21:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 136.499 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 136.499 ms
Loss rate: 1.23%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-03 16:25:34

End at: 2018-04-03 16:26:04

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.61 Mbit/s

95th percentile per-packet one-way delay: 136.273 ms

Loss rate: 1.36%

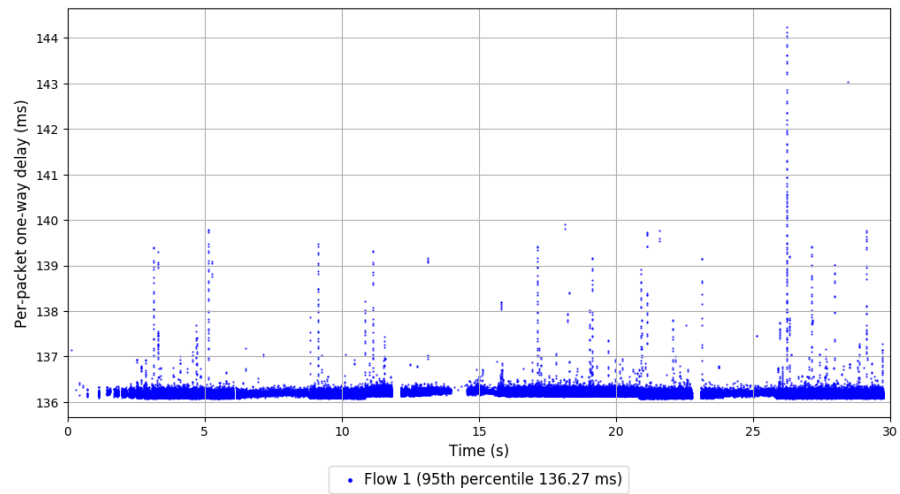
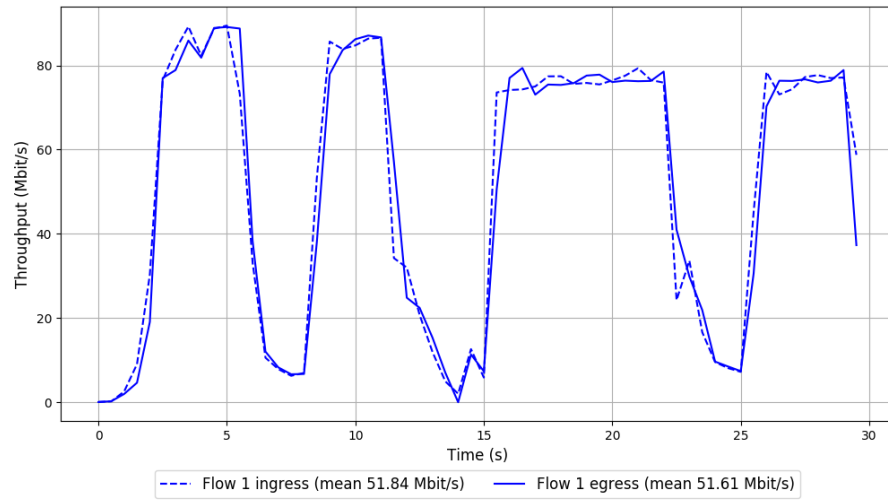
-- Flow 1:

Average throughput: 51.61 Mbit/s

95th percentile per-packet one-way delay: 136.273 ms

Loss rate: 1.36%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-03 16:41:22

End at: 2018-04-03 16:41:52

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 136.147 ms

Loss rate: 1.21%

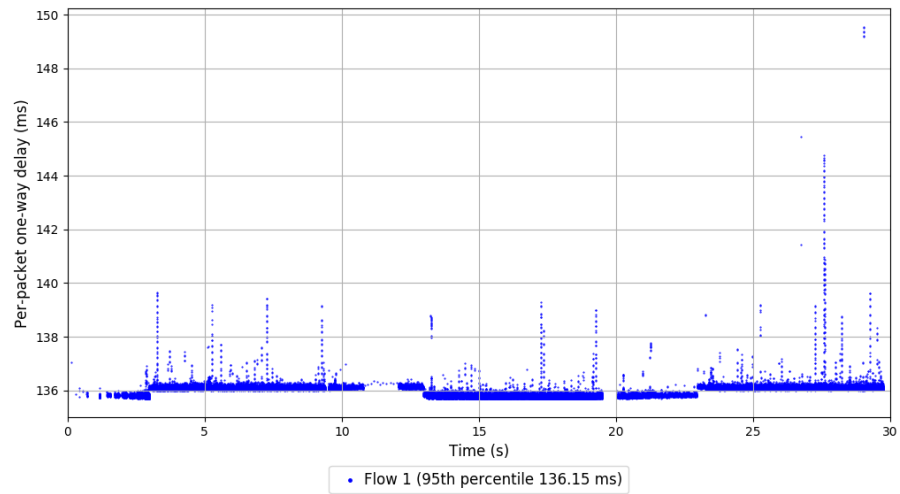
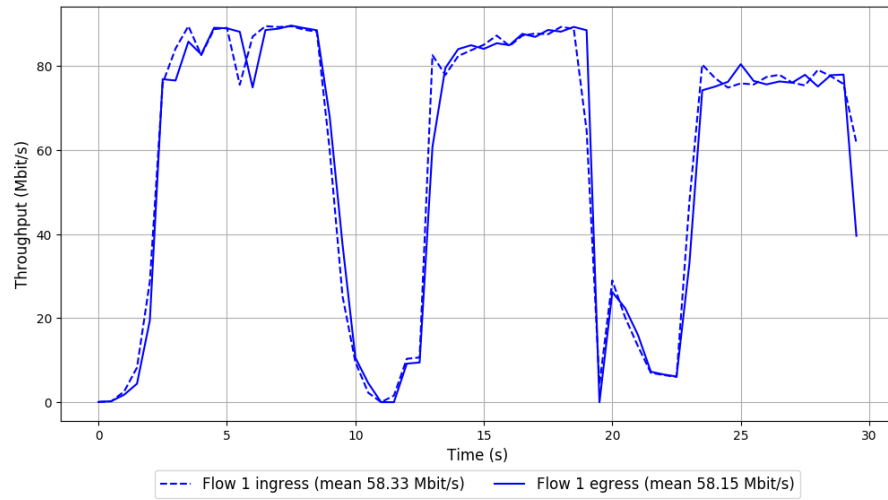
-- Flow 1:

Average throughput: 58.15 Mbit/s

95th percentile per-packet one-way delay: 136.147 ms

Loss rate: 1.21%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-03 16:57:14

End at: 2018-04-03 16:57:44

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.85 Mbit/s

95th percentile per-packet one-way delay: 135.765 ms

Loss rate: 1.18%

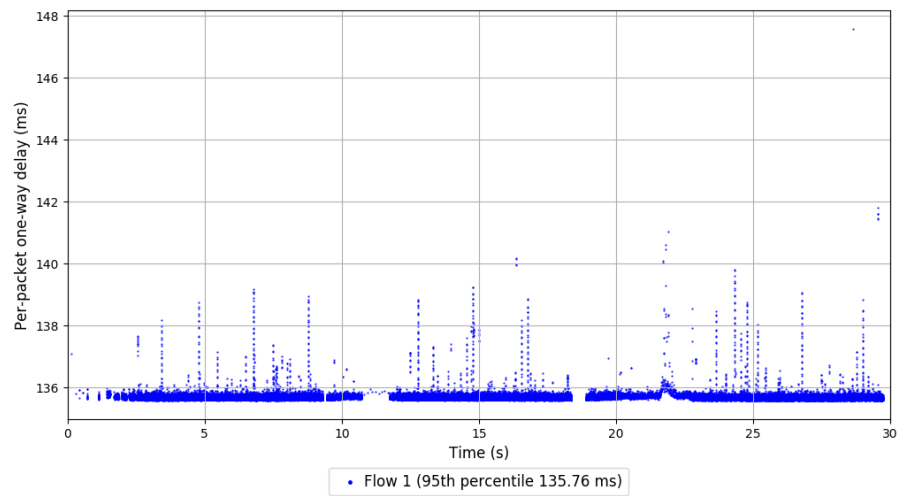
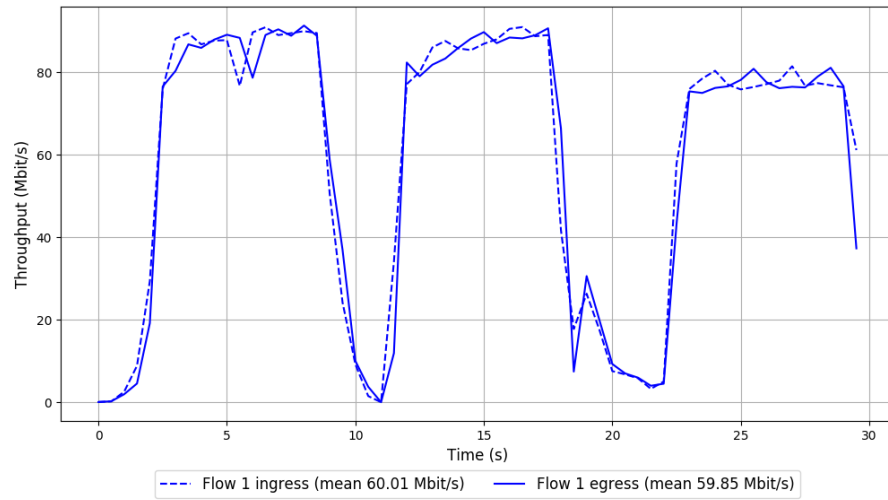
-- Flow 1:

Average throughput: 59.85 Mbit/s

95th percentile per-packet one-way delay: 135.765 ms

Loss rate: 1.18%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-03 17:13:05

End at: 2018-04-03 17:13:35

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.02 Mbit/s

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

Loss rate: 1.27%

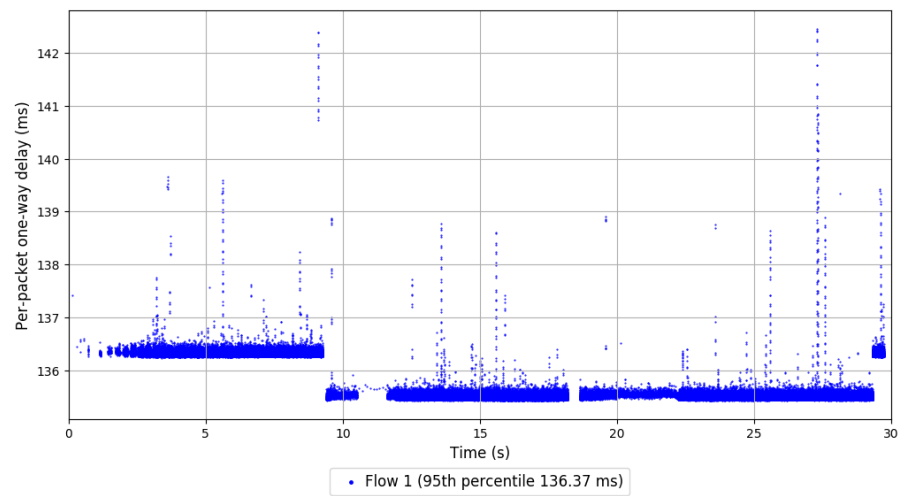
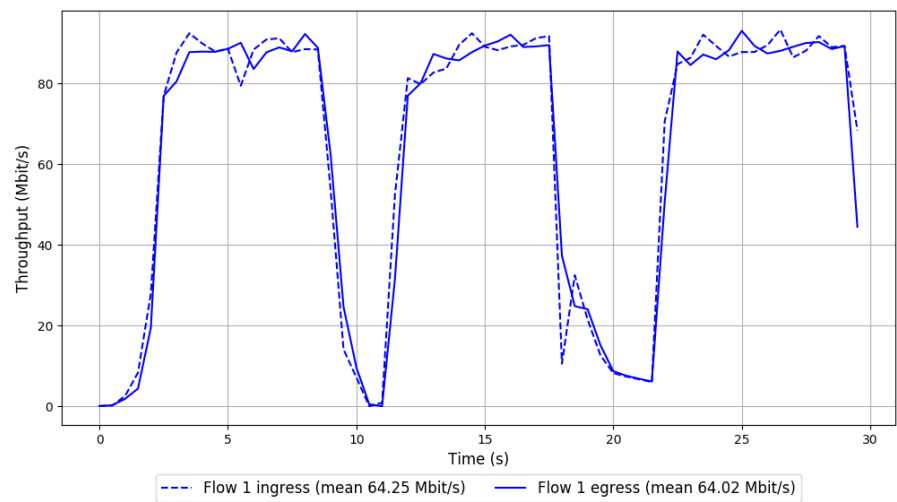
-- Flow 1:

Average throughput: 64.02 Mbit/s

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

Loss rate: 1.27%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-03 17:28:55

End at: 2018-04-03 17:29:25

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.99 Mbit/s

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

Loss rate: 1.24%

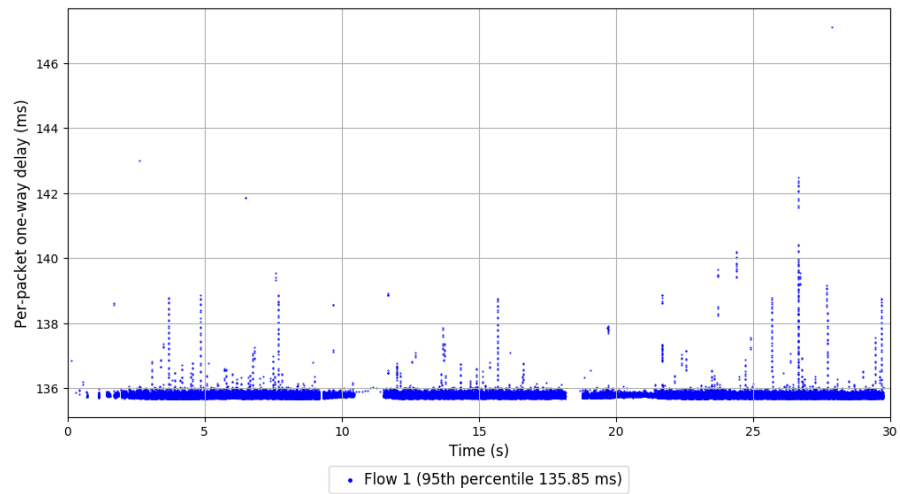
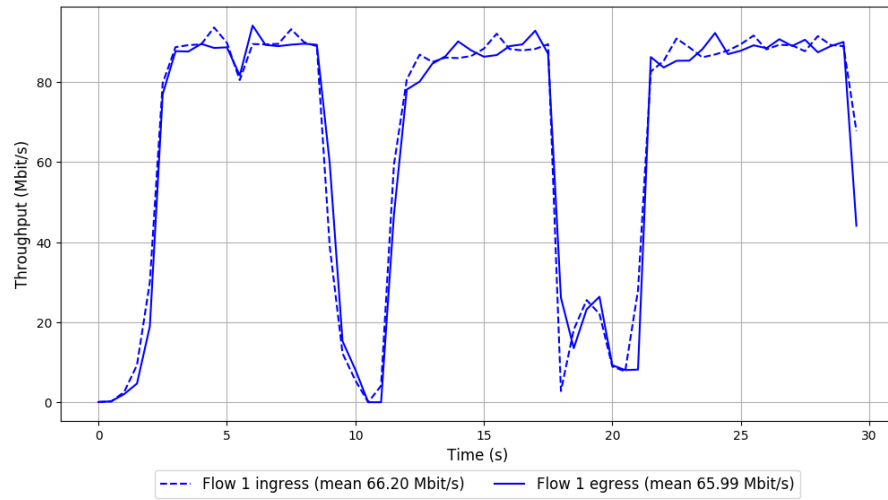
-- Flow 1:

Average throughput: 65.99 Mbit/s

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

Loss rate: 1.24%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-03 17:44:33

End at: 2018-04-03 17:45:03

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.66 Mbit/s

95th percentile per-packet one-way delay: 136.342 ms

Loss rate: 1.18%

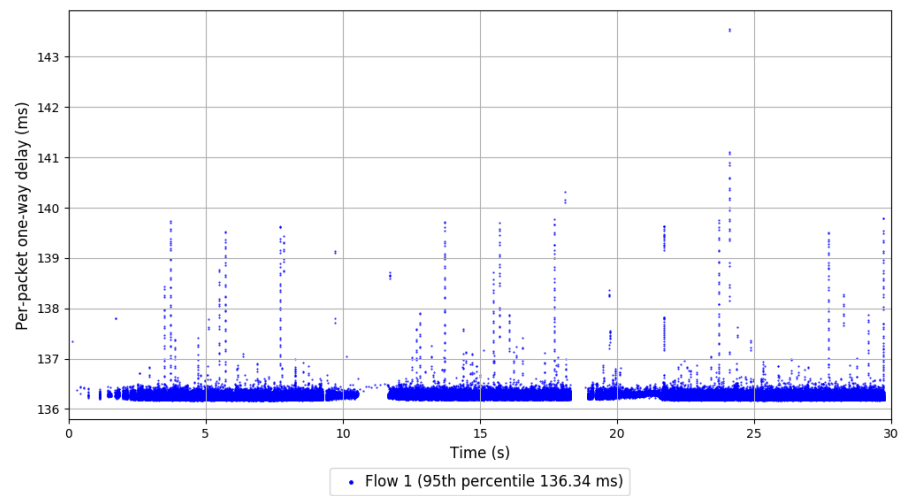
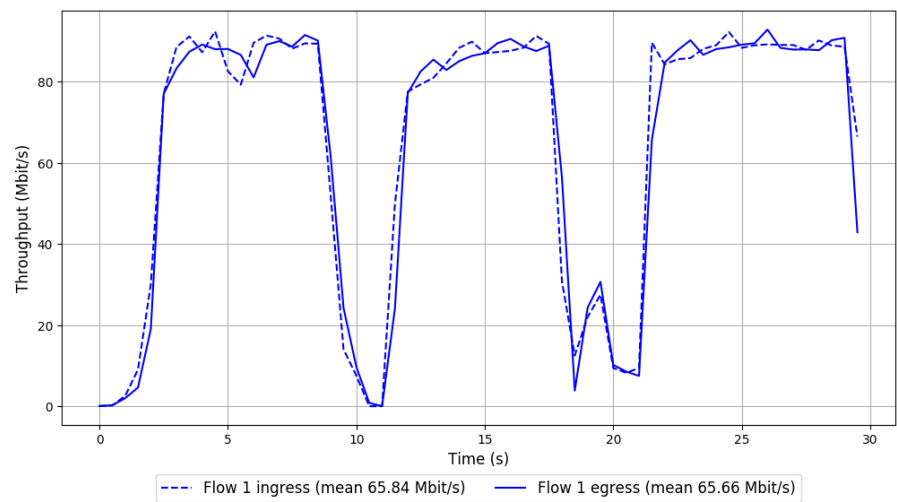
-- Flow 1:

Average throughput: 65.66 Mbit/s

95th percentile per-packet one-way delay: 136.342 ms

Loss rate: 1.18%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-03 18:00:01

End at: 2018-04-03 18:00:31

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 135.707 ms

Loss rate: 1.34%

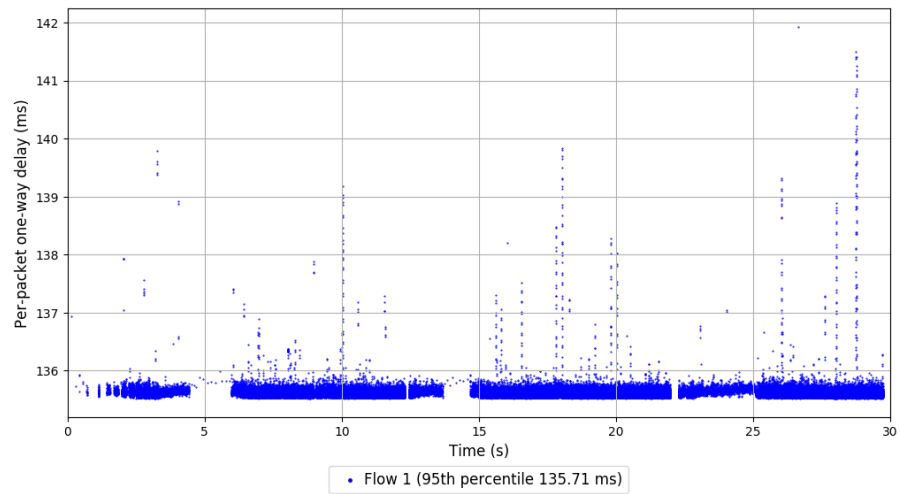
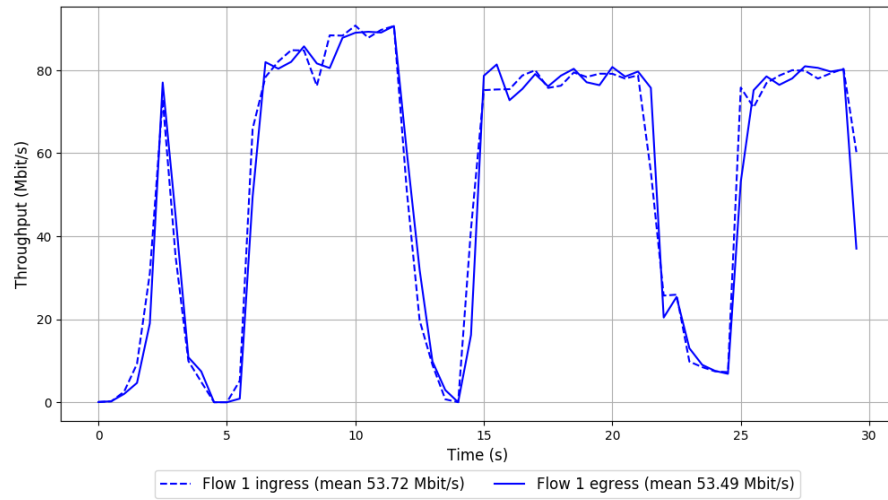
-- Flow 1:

Average throughput: 53.49 Mbit/s

95th percentile per-packet one-way delay: 135.707 ms

Loss rate: 1.34%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-03 18:15:51

End at: 2018-04-03 18:16:21

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.52 Mbit/s

95th percentile per-packet one-way delay: 135.837 ms

Loss rate: 1.26%

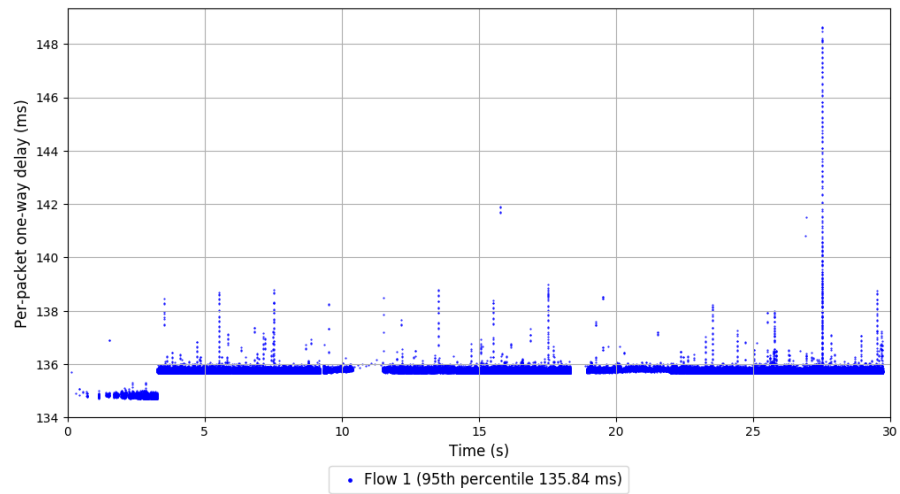
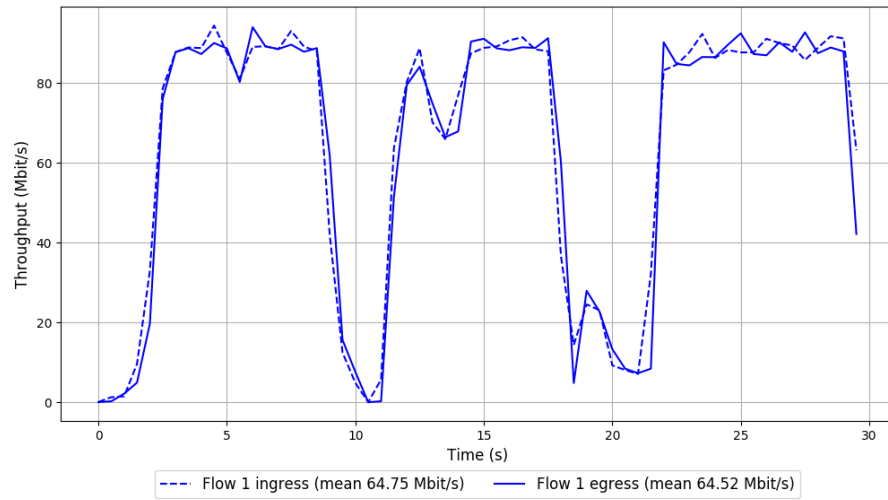
-- Flow 1:

Average throughput: 64.52 Mbit/s

95th percentile per-packet one-way delay: 135.837 ms

Loss rate: 1.26%

Run 9: Report of QUIC Cubic — Data Link

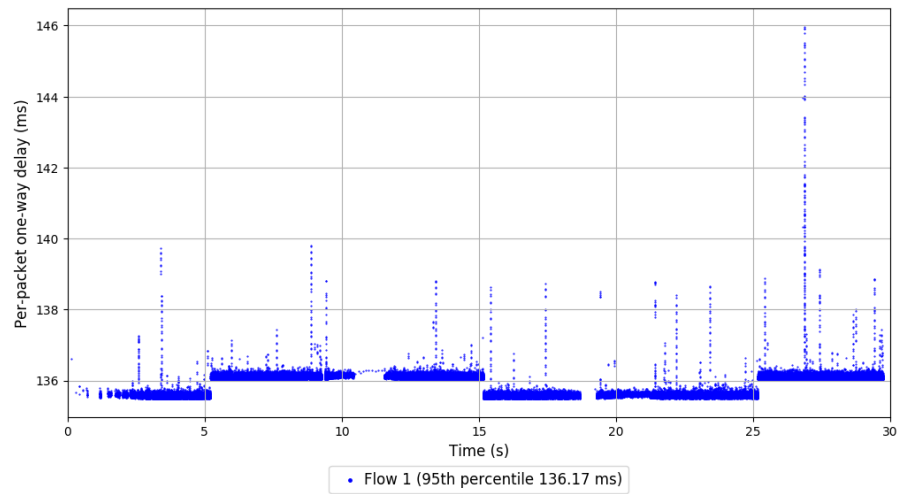
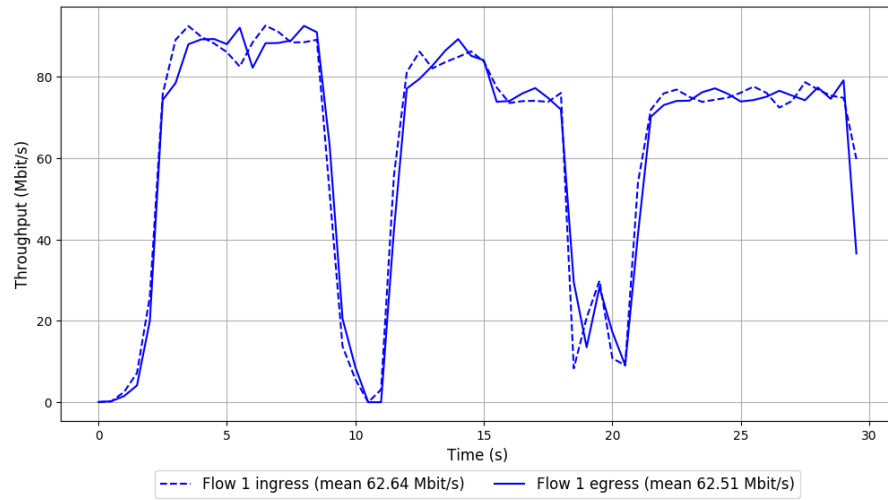


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-03 18:31:20
End at: 2018-04-03 18:31:50

# Below is generated by plot.py at 2018-04-03 21:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.51 Mbit/s
95th percentile per-packet one-way delay: 136.171 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 62.51 Mbit/s
95th percentile per-packet one-way delay: 136.171 ms
Loss rate: 1.12%
```

Run 10: Report of QUIC Cubic — Data Link

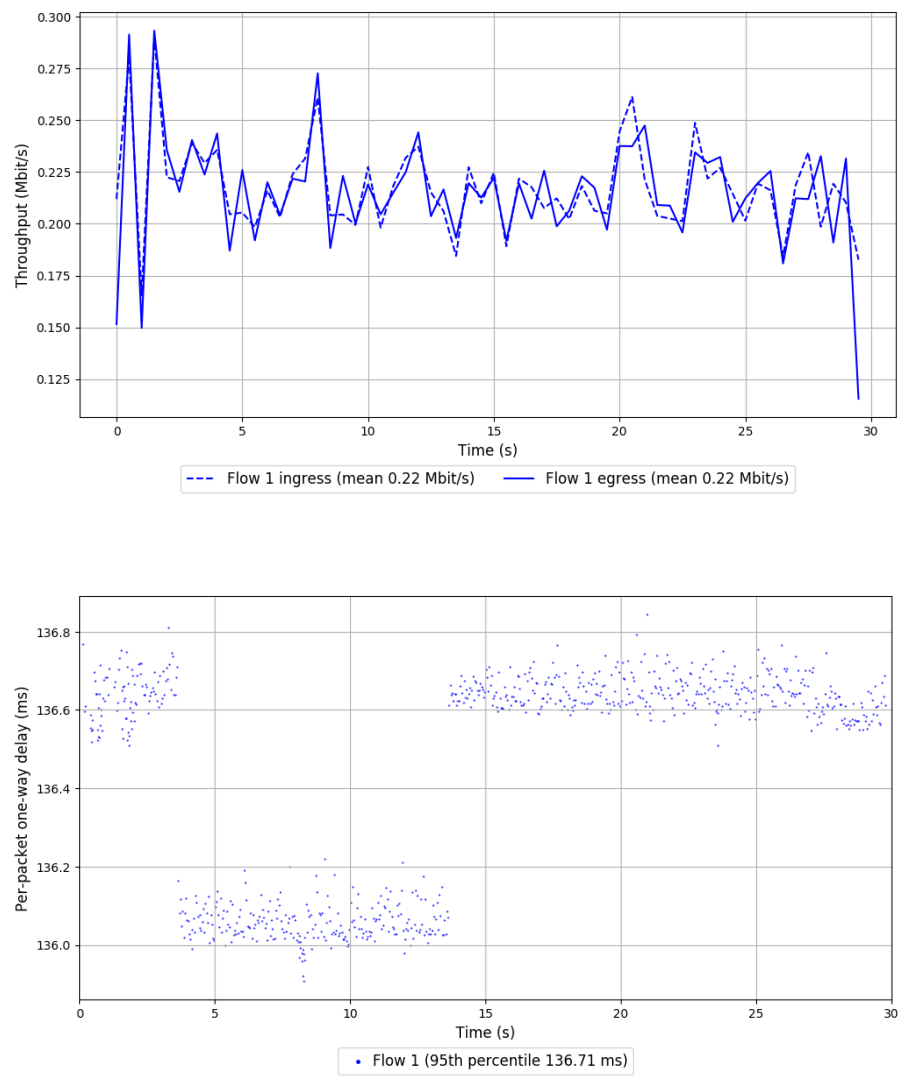


```
Run 1: Statistics of SCReAM

Start at: 2018-04-03 16:06:41
End at: 2018-04-03 16:07:11

# Below is generated by plot.py at 2018-04-03 21:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.712 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.712 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link

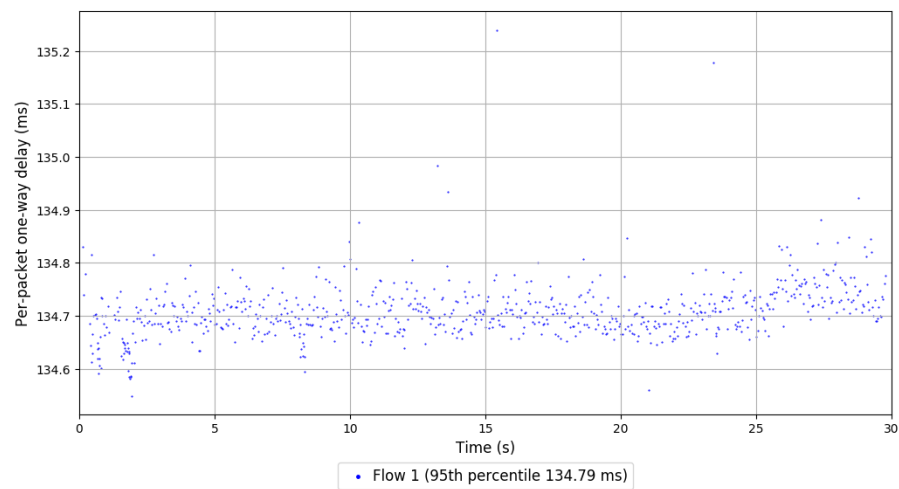
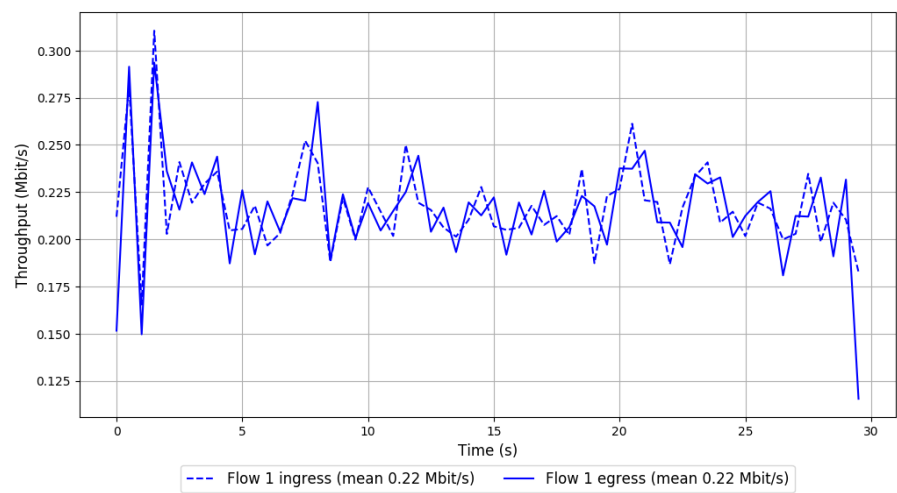


```
Run 2: Statistics of SCReAM

Start at: 2018-04-03 16:22:18
End at: 2018-04-03 16:22:48

# Below is generated by plot.py at 2018-04-03 21:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.787 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.787 ms
Loss rate: 0.89%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-03 16:38:06

End at: 2018-04-03 16:38:36

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.023 ms

Loss rate: 0.77%

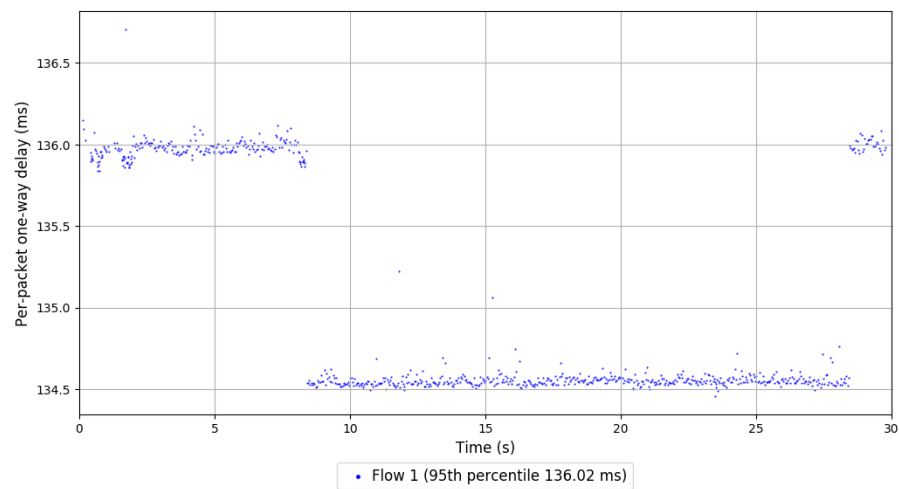
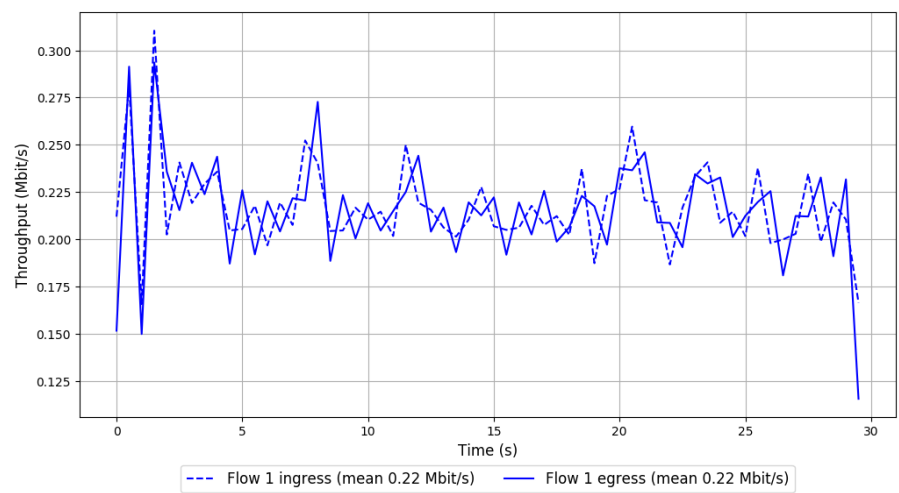
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.023 ms

Loss rate: 0.77%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-03 16:53:59

End at: 2018-04-03 16:54:29

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.741 ms

Loss rate: 0.89%

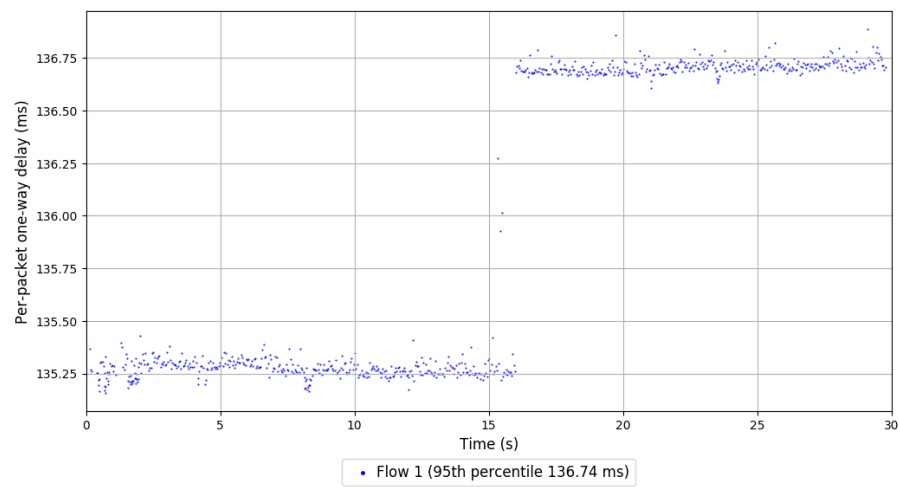
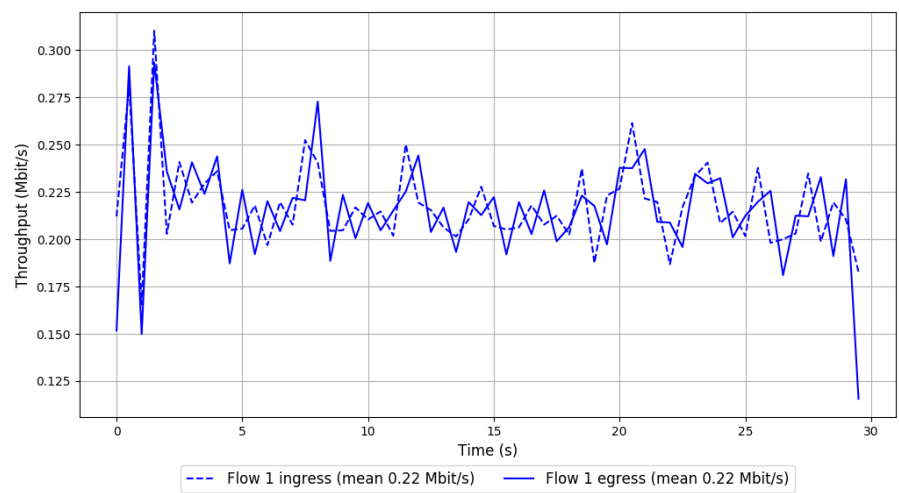
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.741 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-03 17:09:50

End at: 2018-04-03 17:10:20

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 0.89%

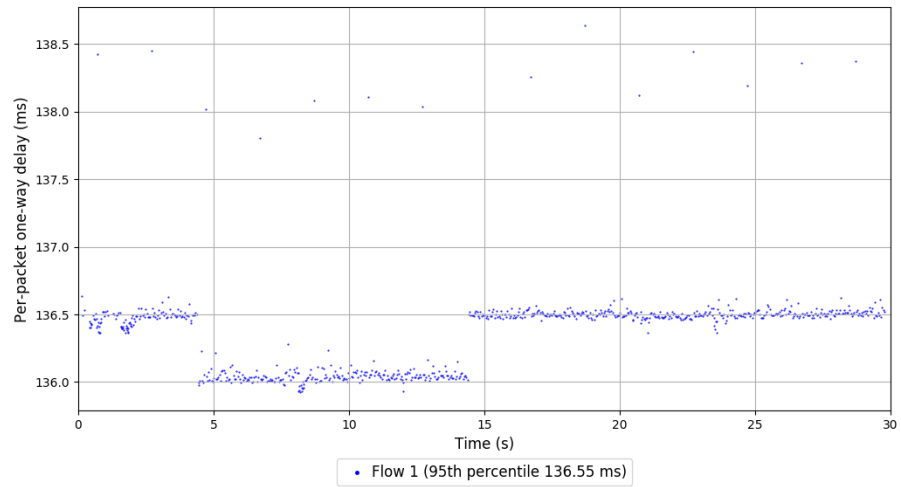
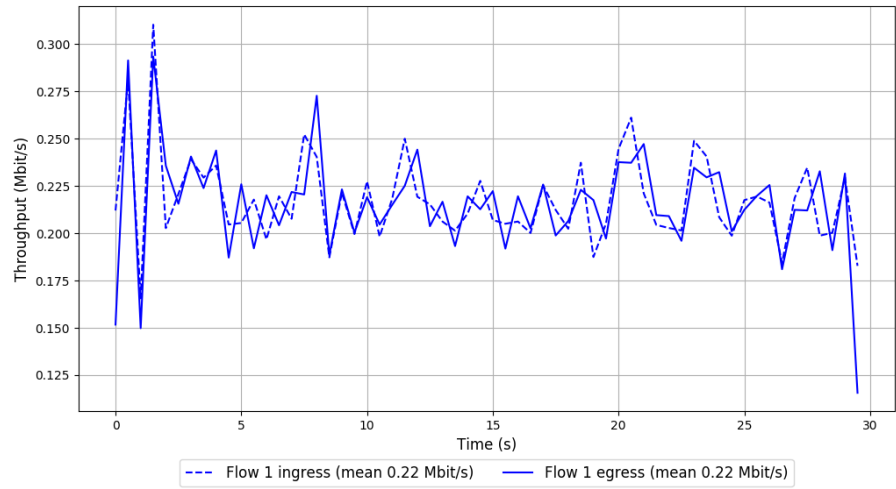
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.550 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-03 17:25:39

End at: 2018-04-03 17:26:09

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.116 ms

Loss rate: 0.89%

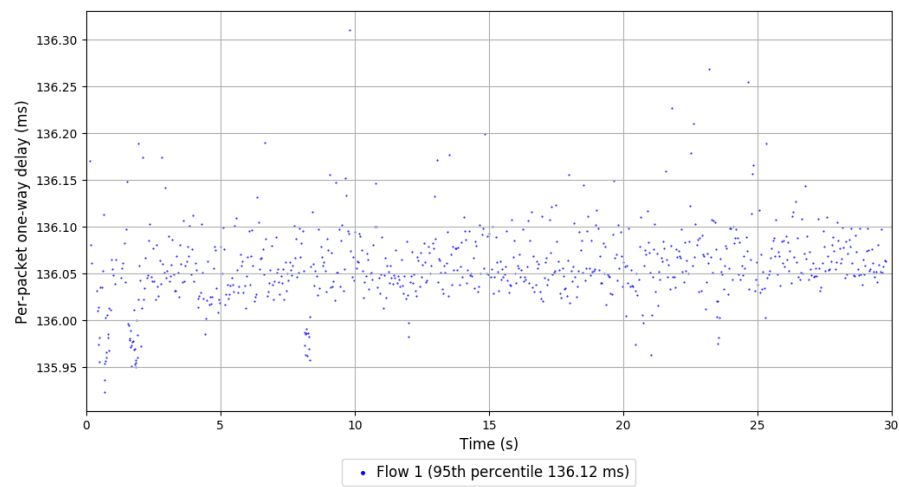
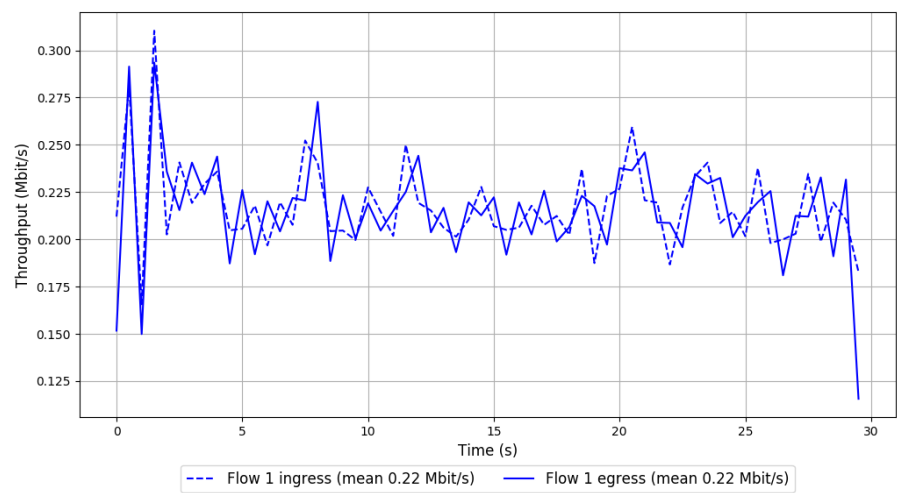
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.116 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-03 17:41:19

End at: 2018-04-03 17:41:49

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.818 ms

Loss rate: 0.89%

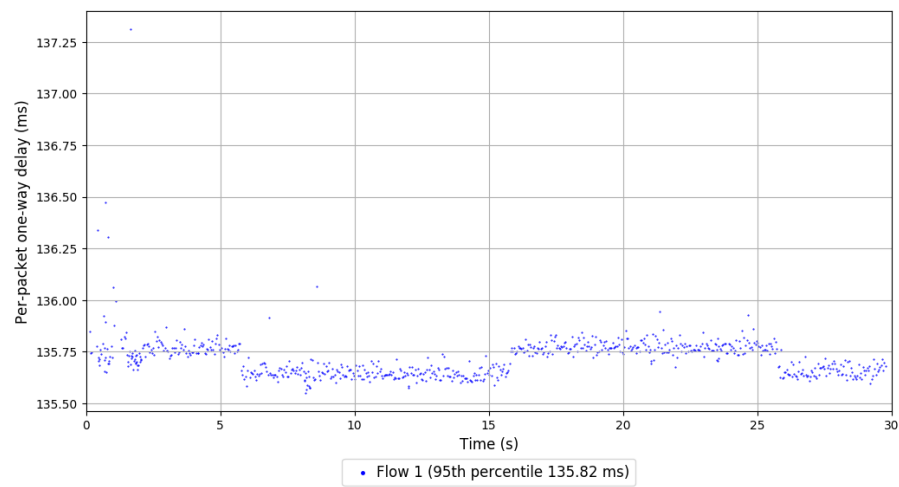
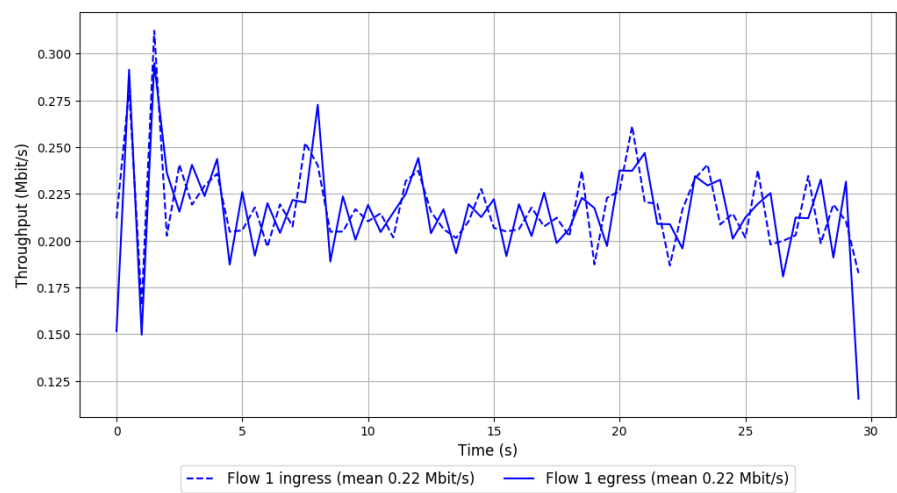
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.818 ms

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-03 17:56:46

End at: 2018-04-03 17:57:16

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.597 ms

Loss rate: 0.89%

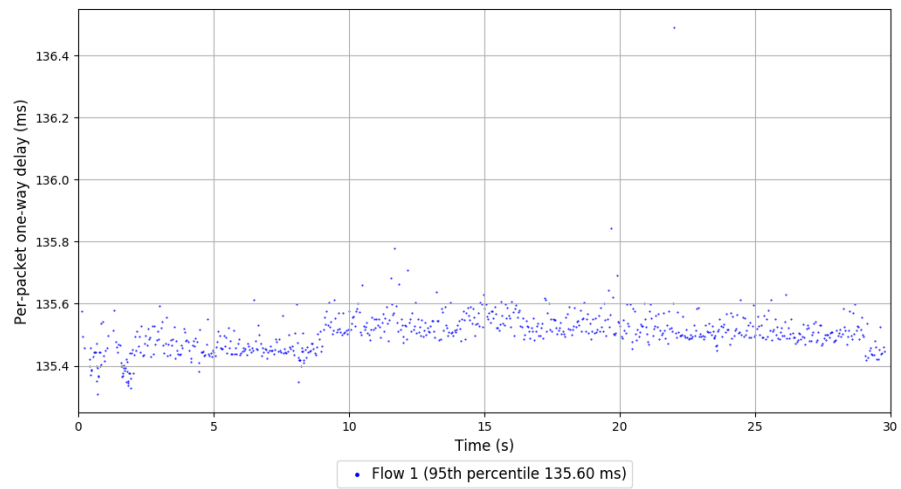
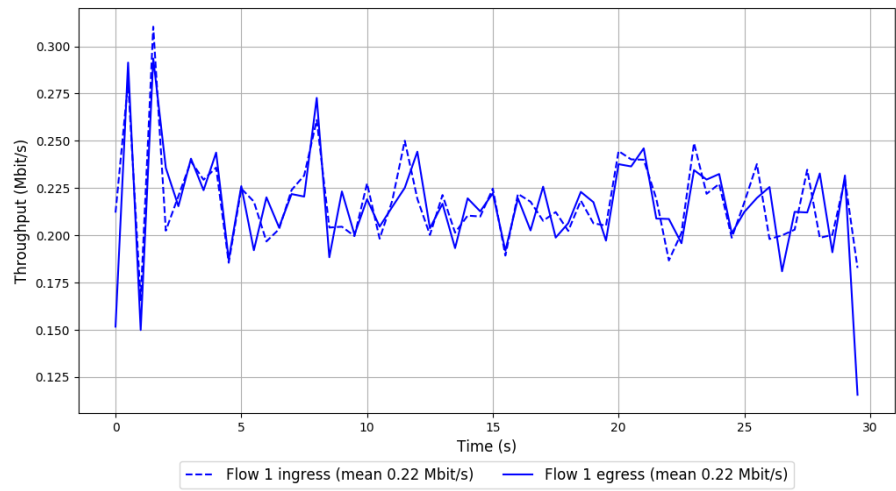
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.597 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-03 18:12:36

End at: 2018-04-03 18:13:06

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.023 ms

Loss rate: 0.89%

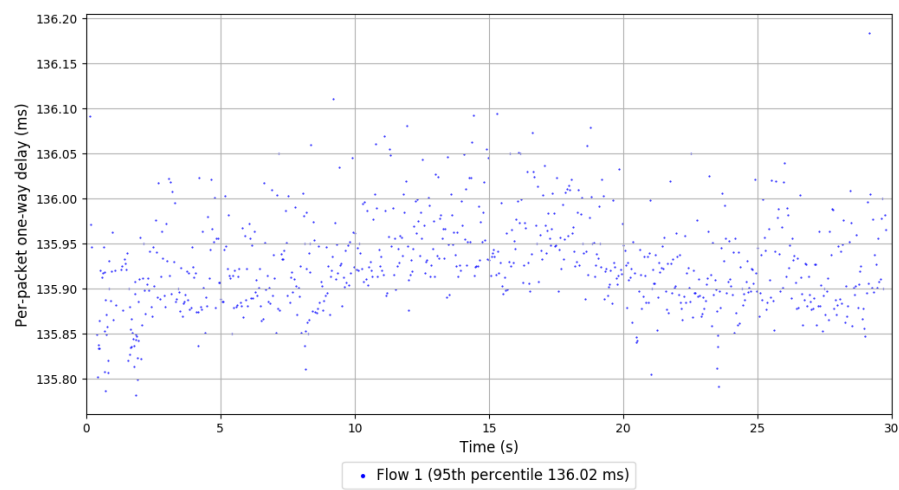
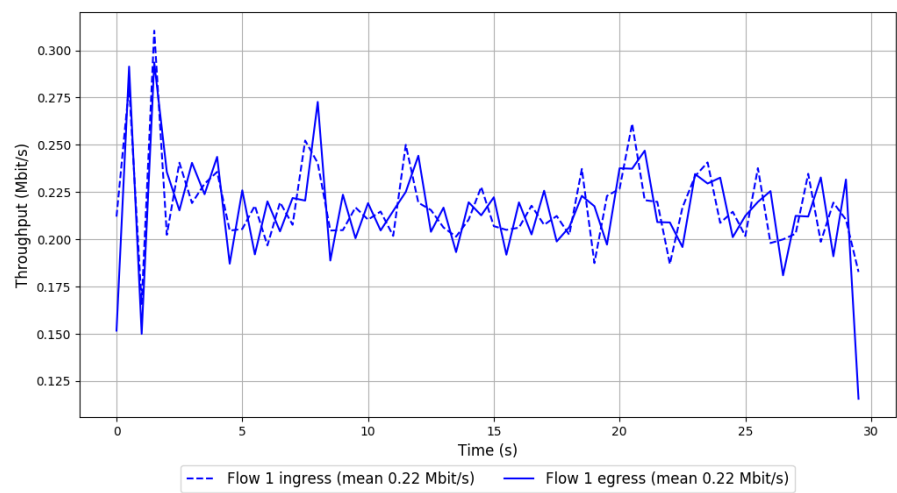
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.023 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link

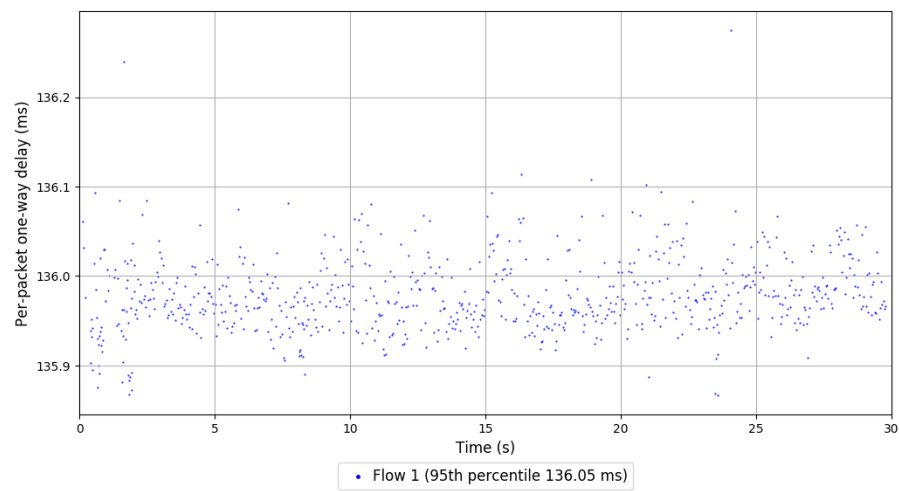
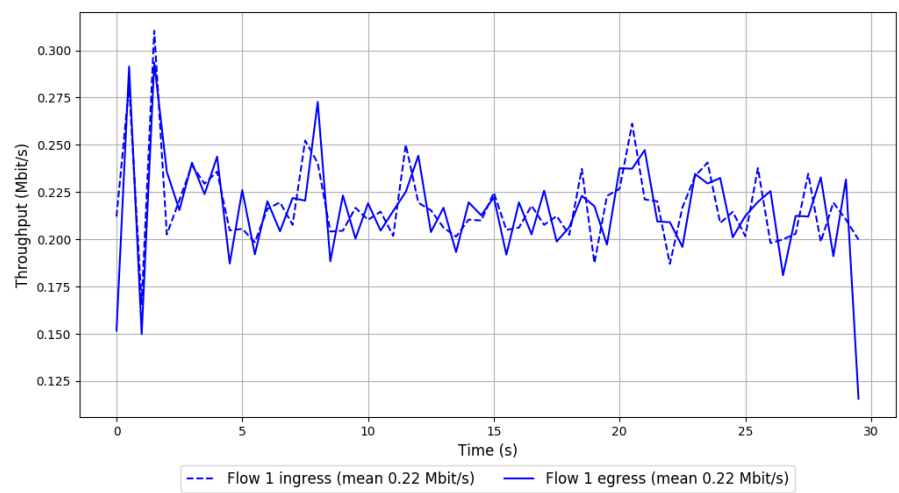


```
Run 10: Statistics of SReAM

Start at: 2018-04-03 18:28:02
End at: 2018-04-03 18:28:32

# Below is generated by plot.py at 2018-04-03 21:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.054 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.054 ms
Loss rate: 1.02%
```

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-03 16:09:15

End at: 2018-04-03 16:09:45

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 136.833 ms

Loss rate: 0.00%

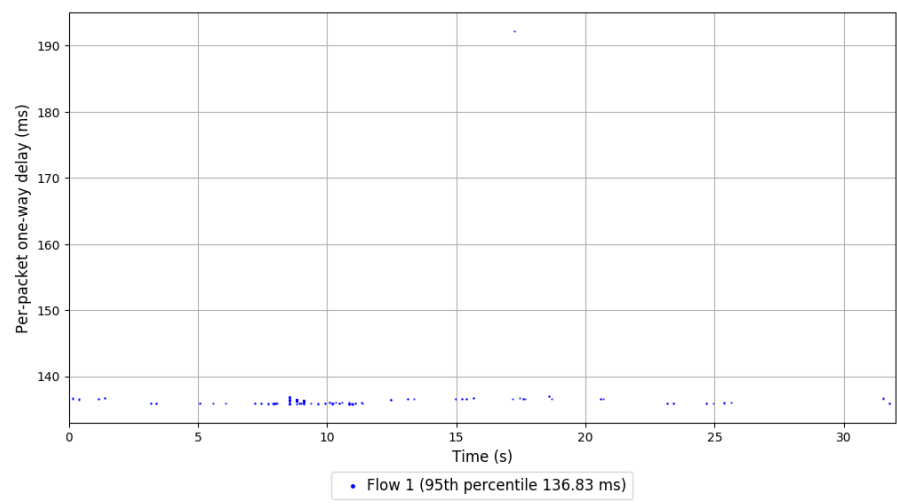
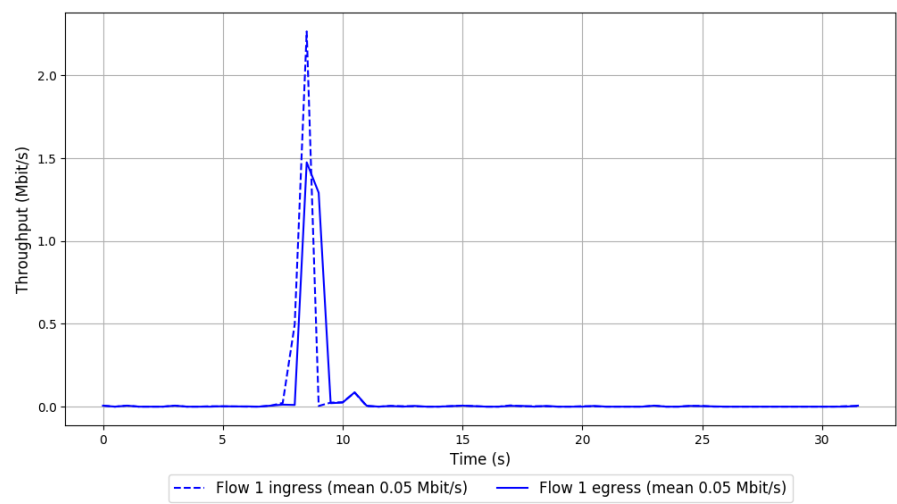
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 136.833 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-03 16:24:52

End at: 2018-04-03 16:25:22

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.593 ms

Loss rate: 0.00%

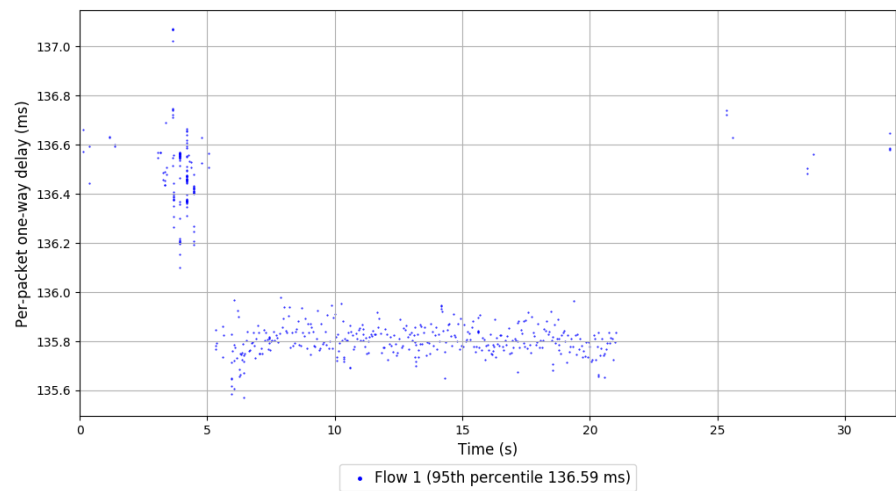
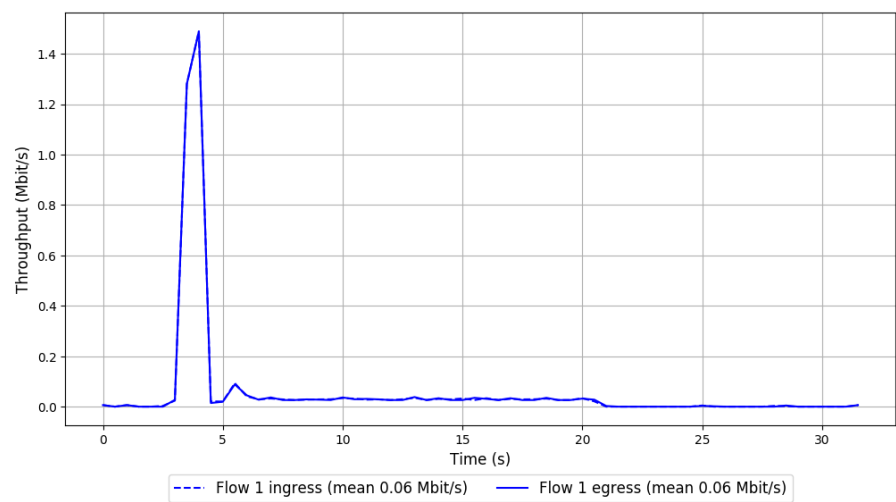
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.593 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-03 16:40:40

End at: 2018-04-03 16:41:10

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.355 ms

Loss rate: 0.00%

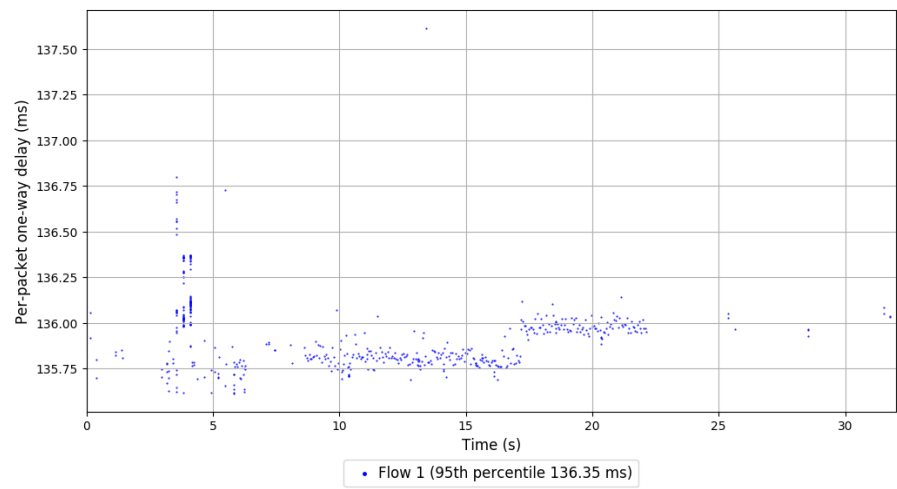
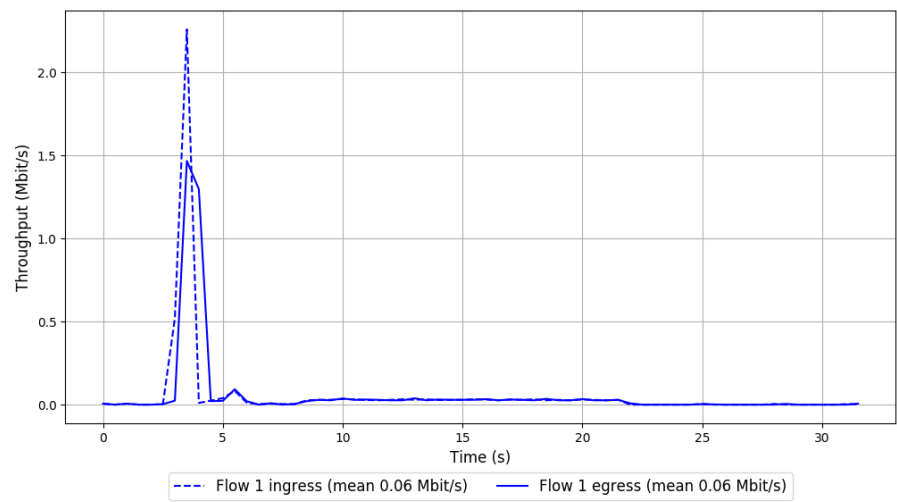
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.355 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-03 16:56:33

End at: 2018-04-03 16:57:03

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.487 ms

Loss rate: 0.00%

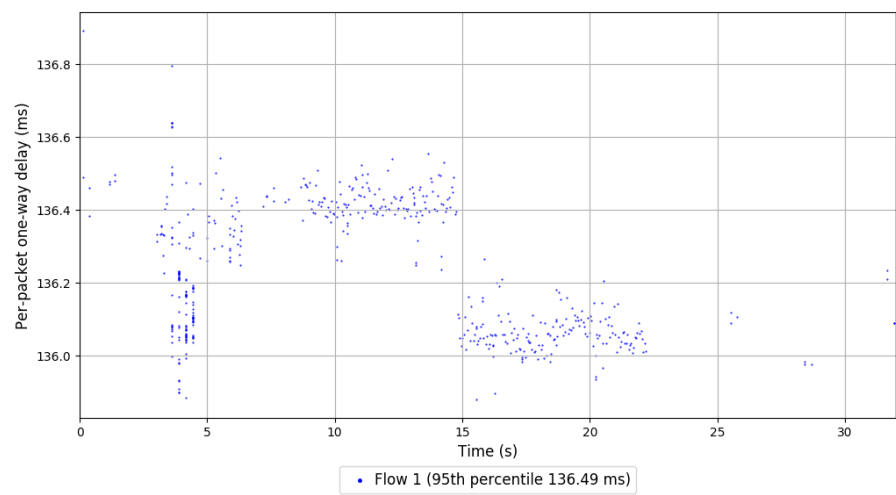
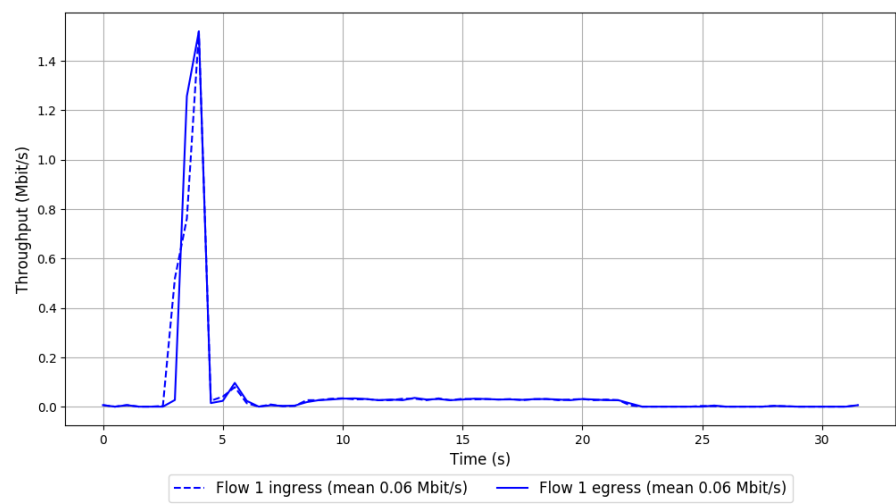
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.487 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-03 17:12:24

End at: 2018-04-03 17:12:54

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.720 ms

Loss rate: 0.00%

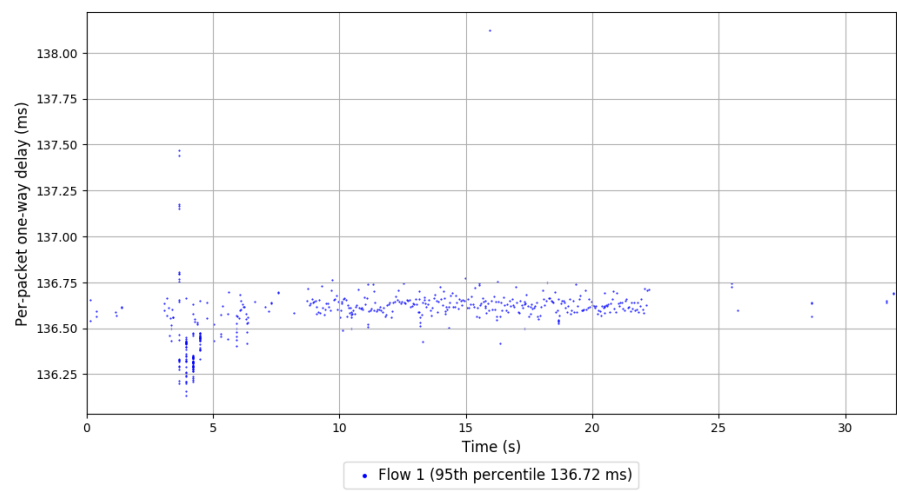
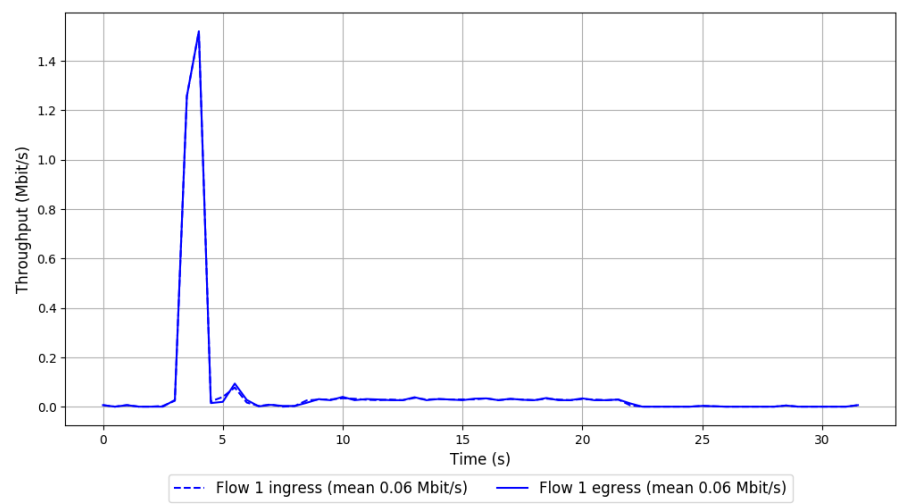
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.720 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-03 17:28:14

End at: 2018-04-03 17:28:44

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.901 ms

Loss rate: 0.00%

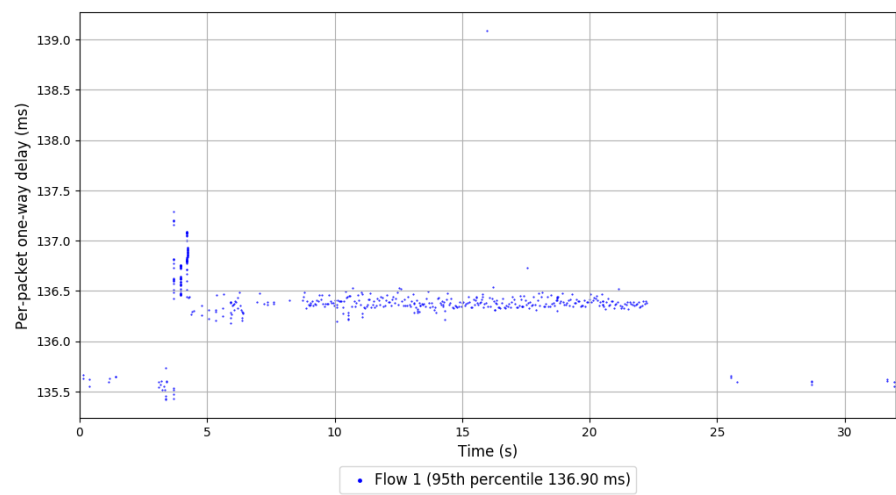
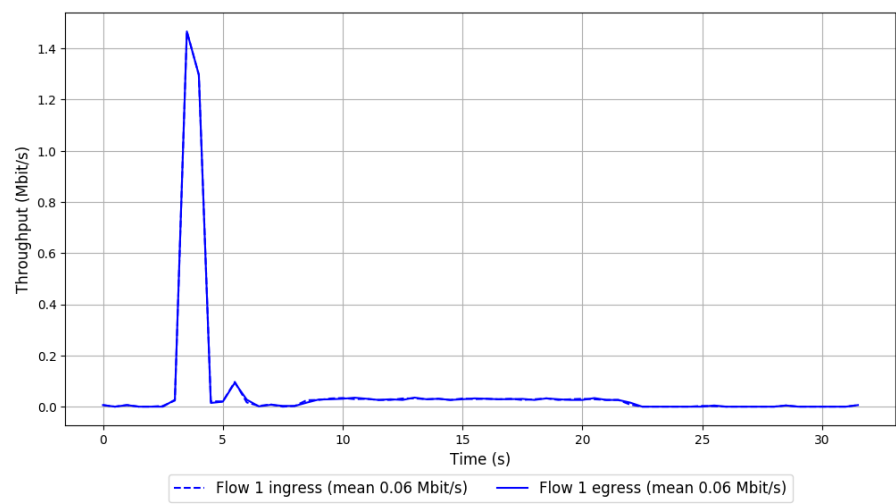
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.901 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-03 17:43:52

End at: 2018-04-03 17:44:22

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

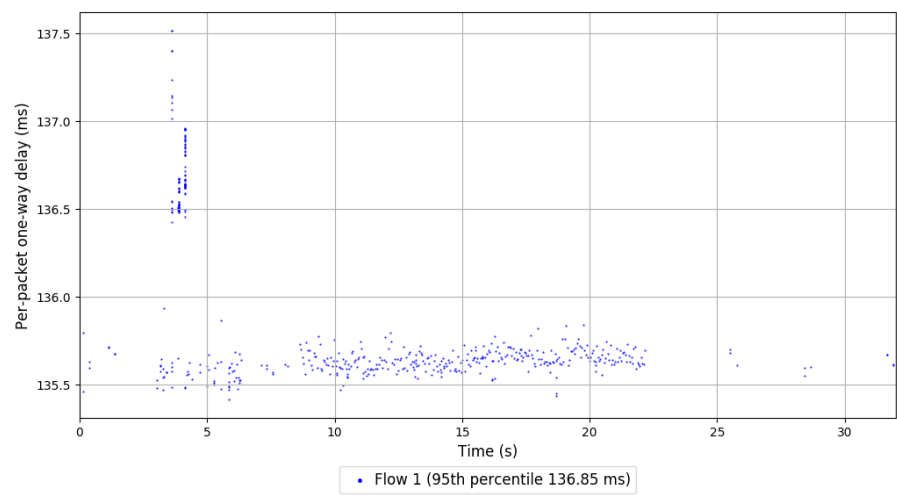
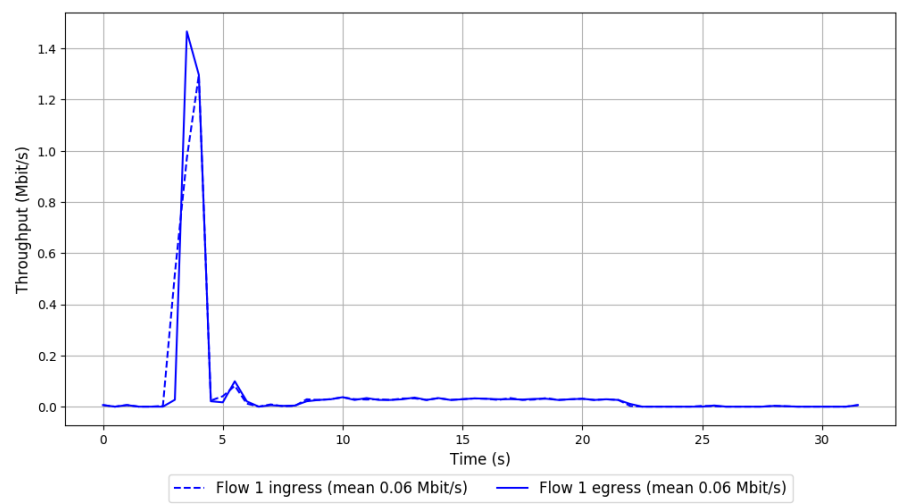
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-03 17:59:19

End at: 2018-04-03 17:59:49

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.404 ms

Loss rate: 0.00%

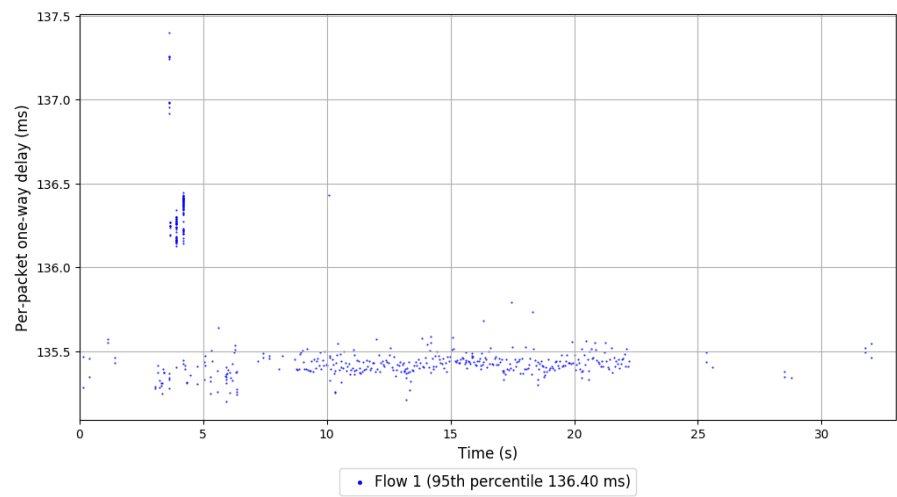
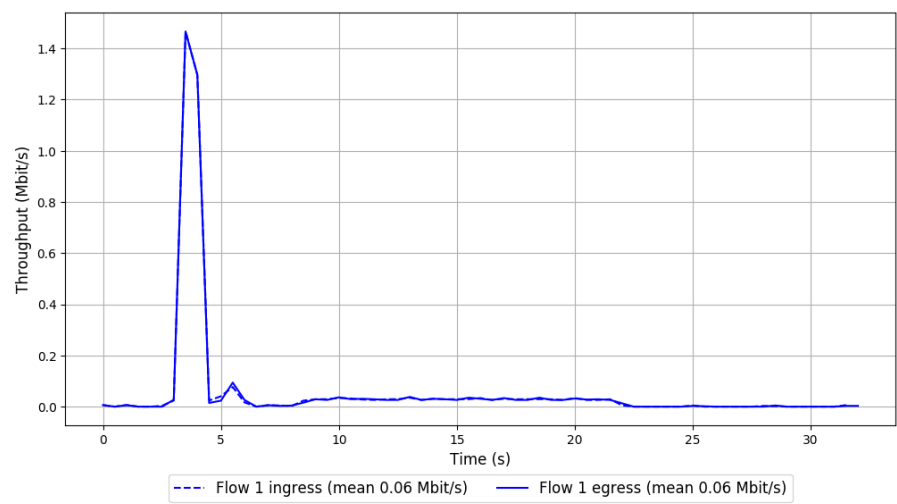
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.404 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-03 18:15:10

End at: 2018-04-03 18:15:40

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.254 ms

Loss rate: 0.00%

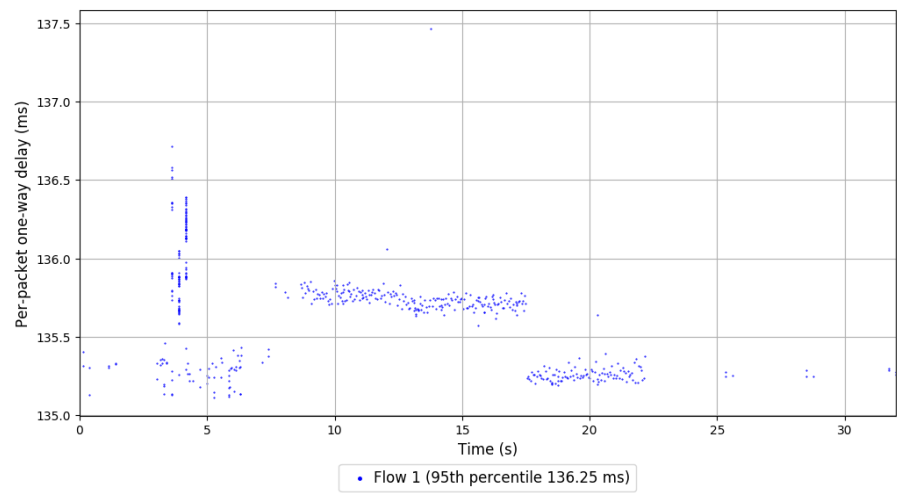
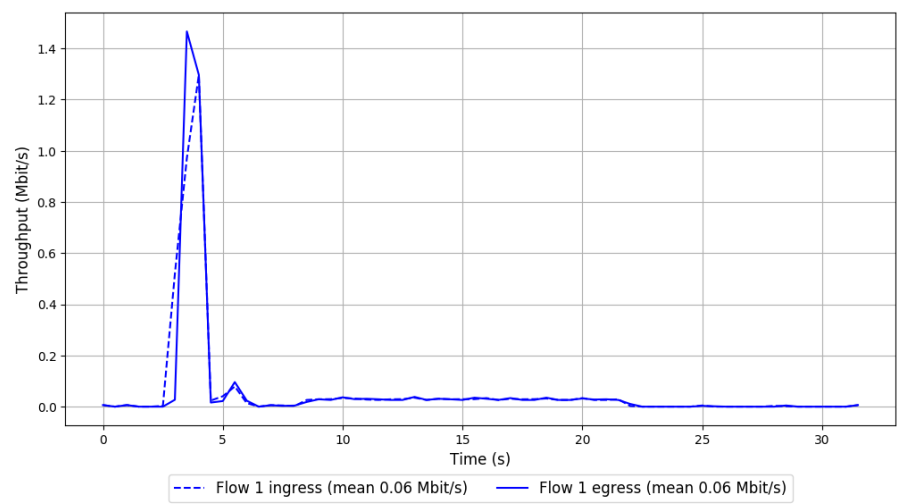
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.254 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-03 18:30:38

End at: 2018-04-03 18:31:08

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 135.617 ms

Loss rate: 0.00%

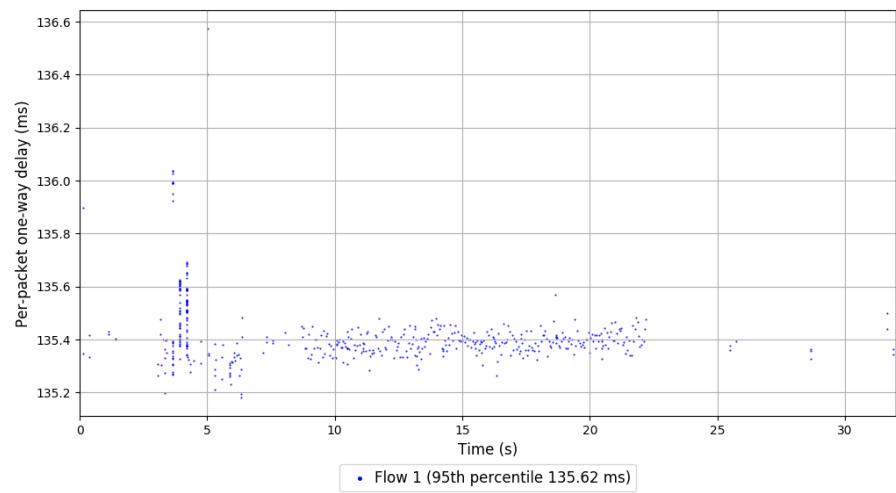
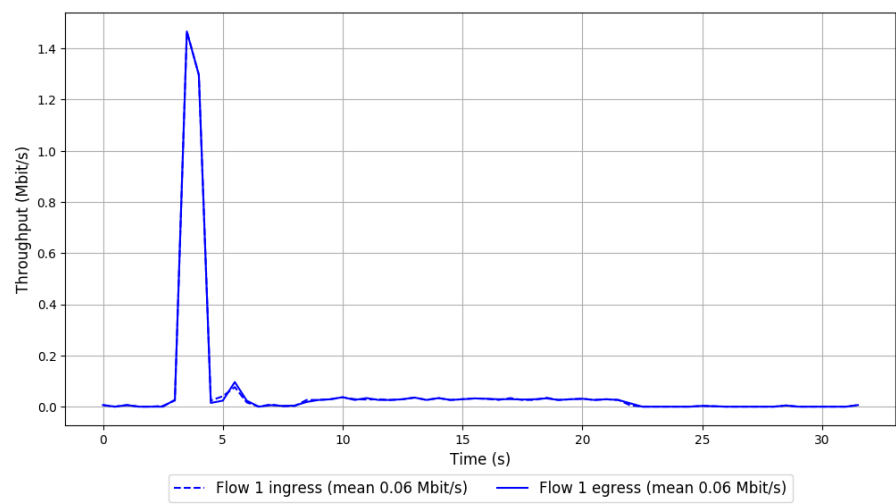
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 135.617 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-03 16:03:50

End at: 2018-04-03 16:04:20

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.441 ms

Loss rate: 1.03%

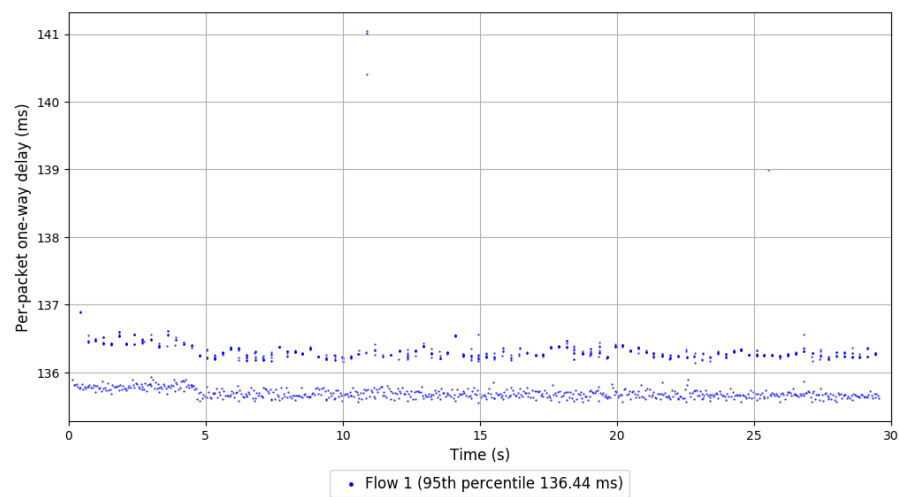
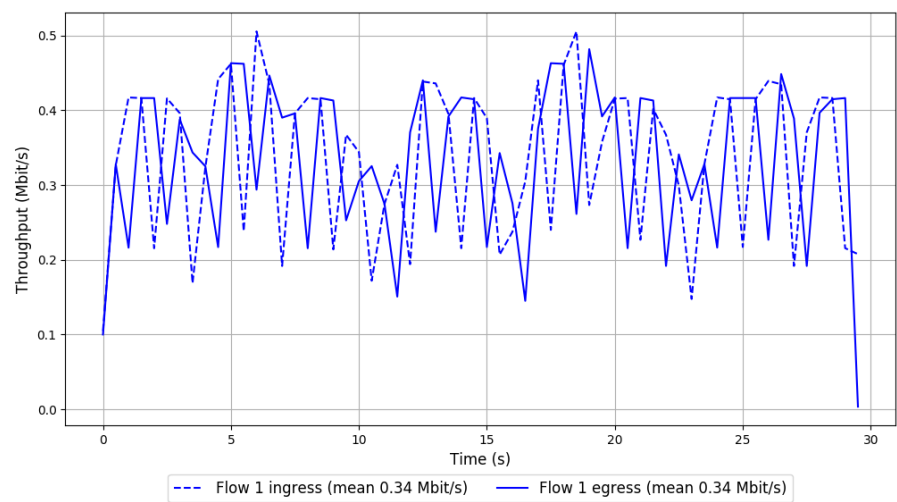
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.441 ms

Loss rate: 1.03%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-03 16:19:24

End at: 2018-04-03 16:19:54

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

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

Loss rate: 0.83%

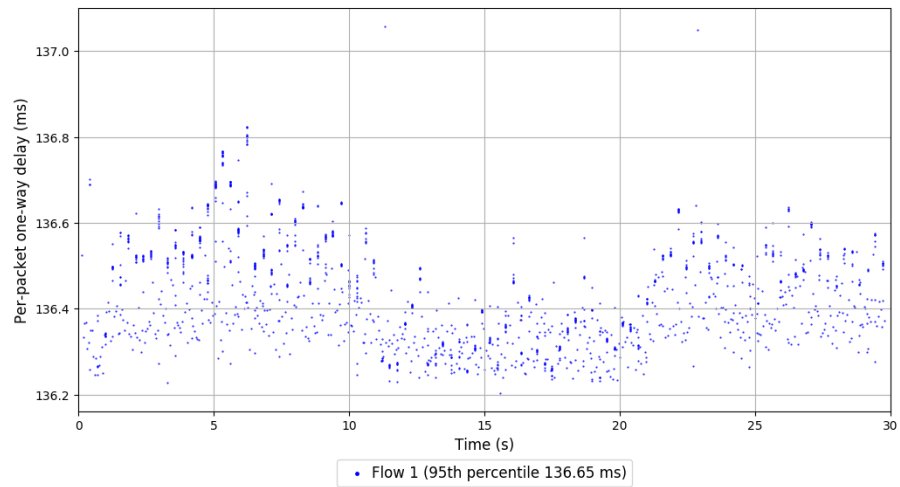
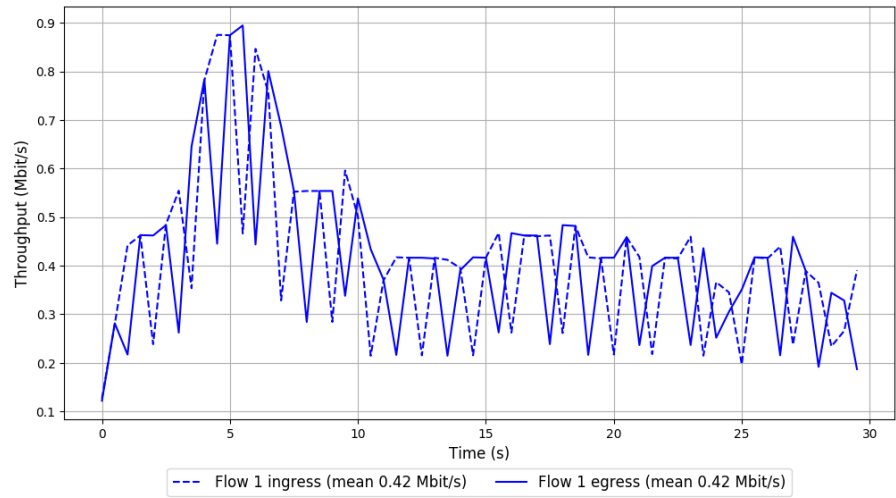
-- Flow 1:

Average throughput: 0.42 Mbit/s

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

Loss rate: 0.83%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-03 16:35:10

End at: 2018-04-03 16:35:40

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.646 ms

Loss rate: 0.84%

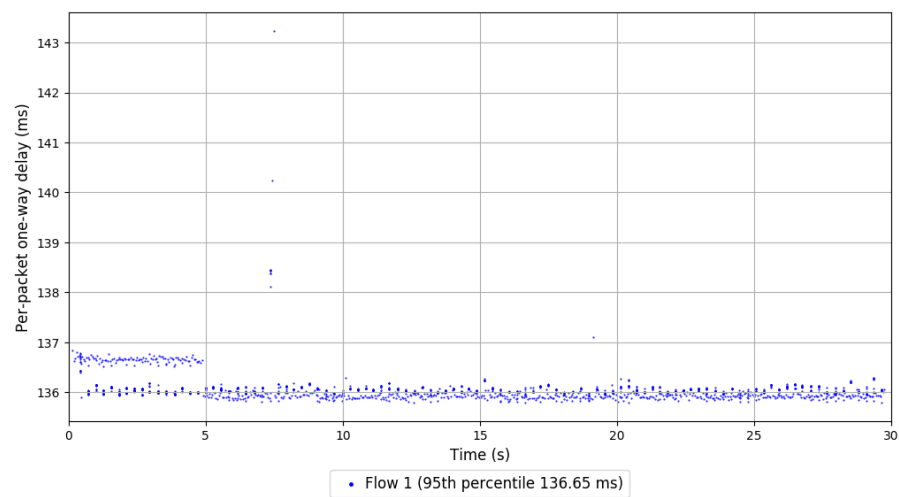
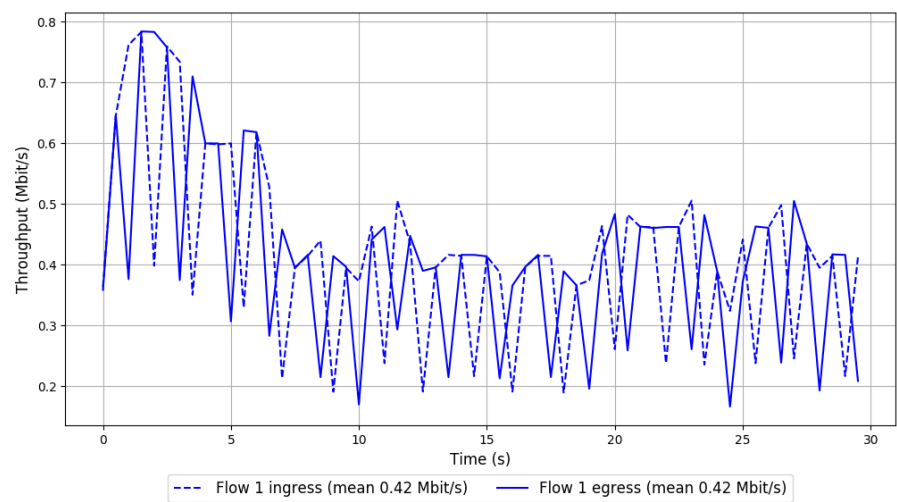
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.646 ms

Loss rate: 0.84%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

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

End at: 2018-04-03 16:51:33

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.189 ms

Loss rate: 0.81%

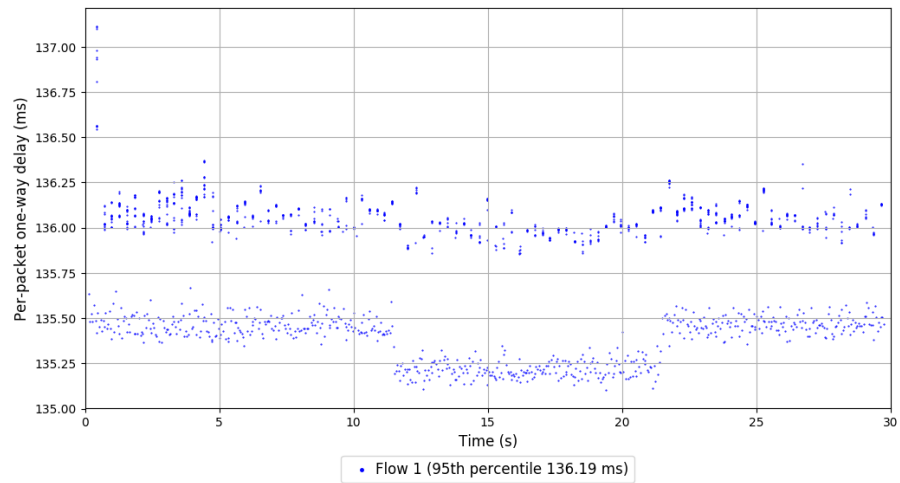
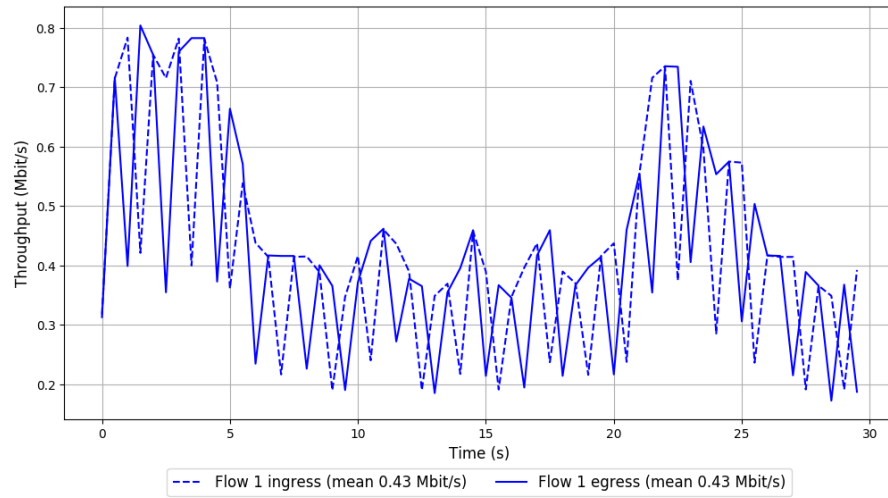
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.189 ms

Loss rate: 0.81%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-03 17:07:00

End at: 2018-04-03 17:07:30

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.724 ms

Loss rate: 0.94%

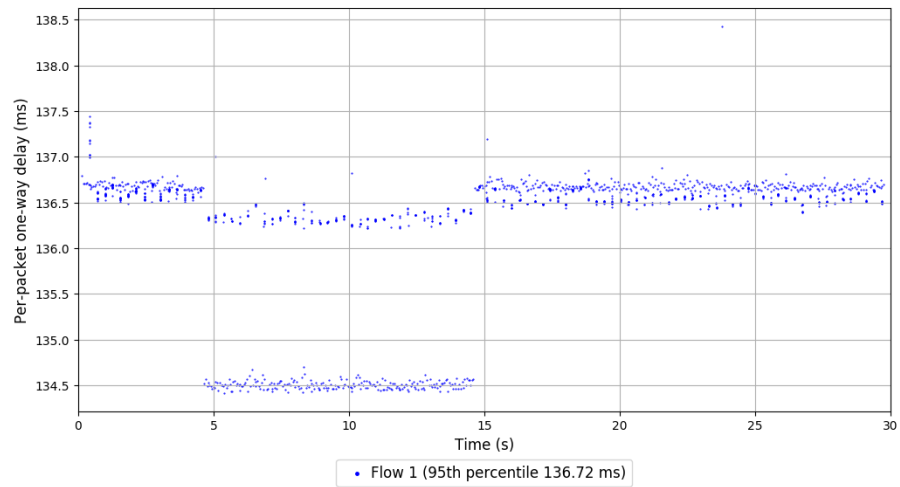
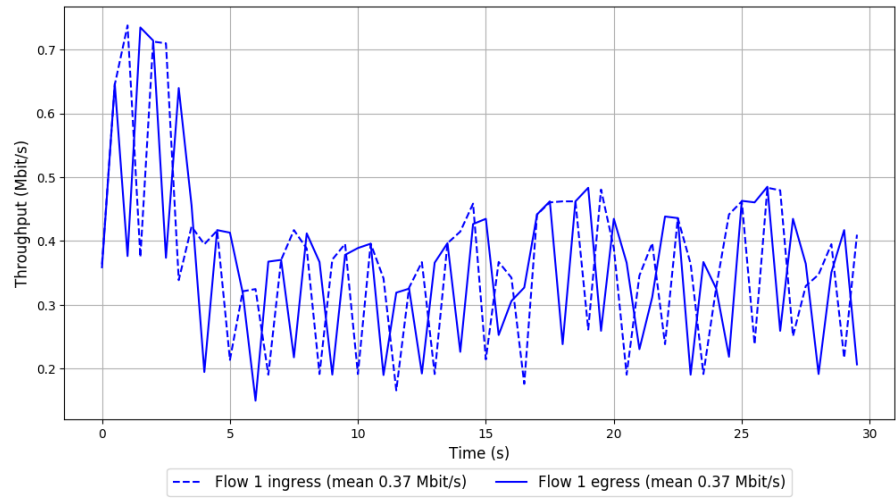
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.724 ms

Loss rate: 0.94%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-03 17:22:46

End at: 2018-04-03 17:23:16

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.689 ms

Loss rate: 0.71%

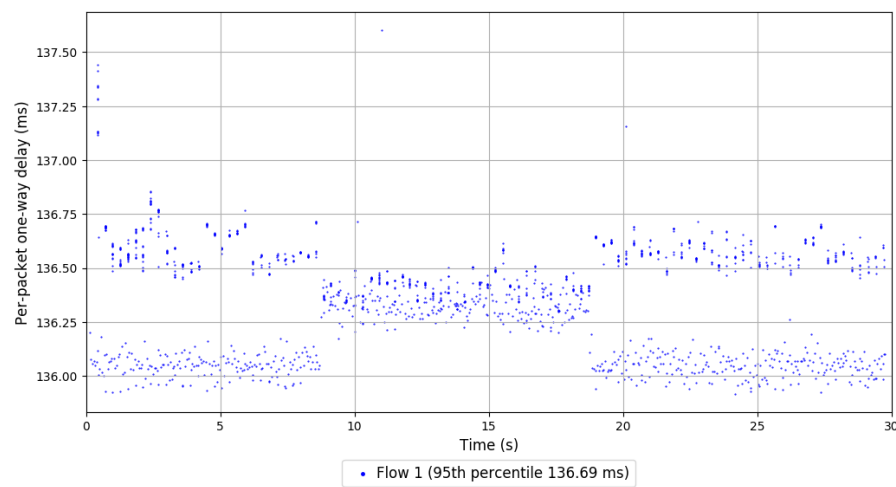
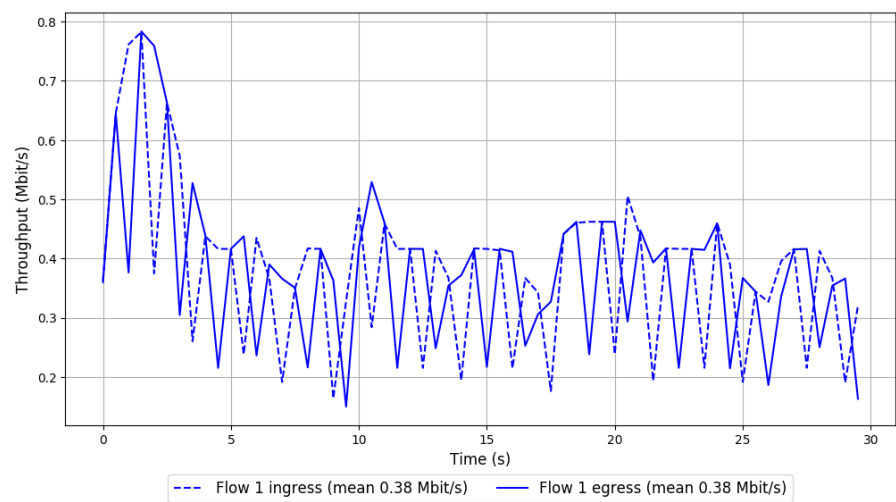
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.689 ms

Loss rate: 0.71%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-03 17:38:30

End at: 2018-04-03 17:39:00

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 0.93%

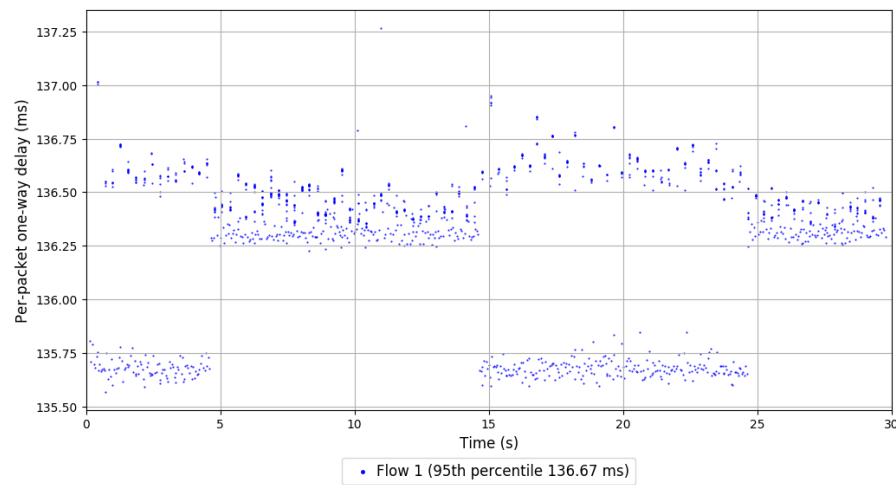
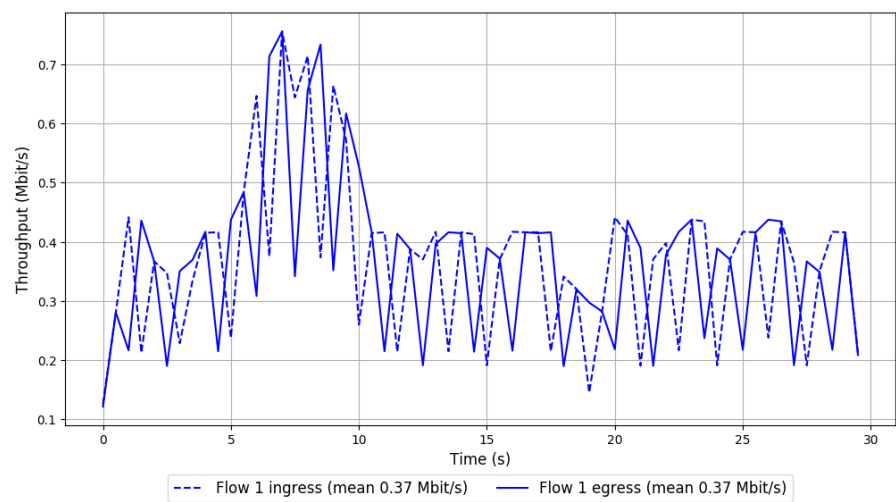
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.670 ms

Loss rate: 0.93%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-03 17:53:56

End at: 2018-04-03 17:54:26

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.600 ms

Loss rate: 0.91%

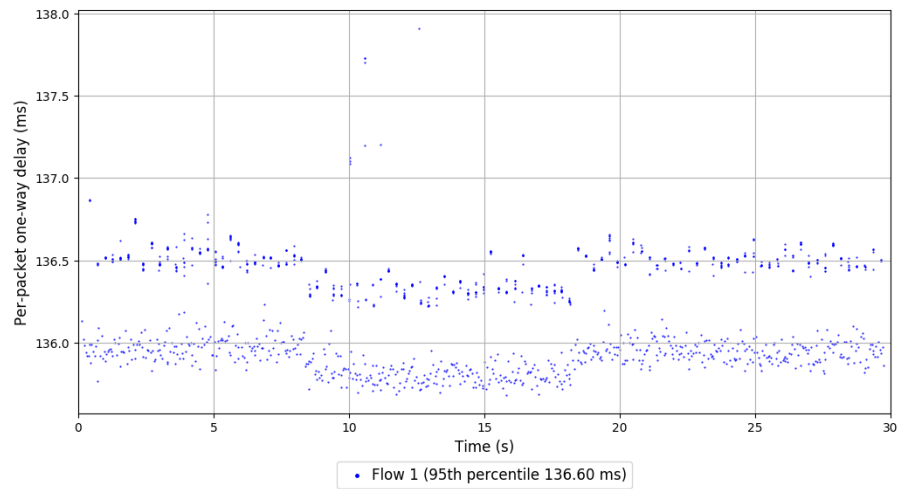
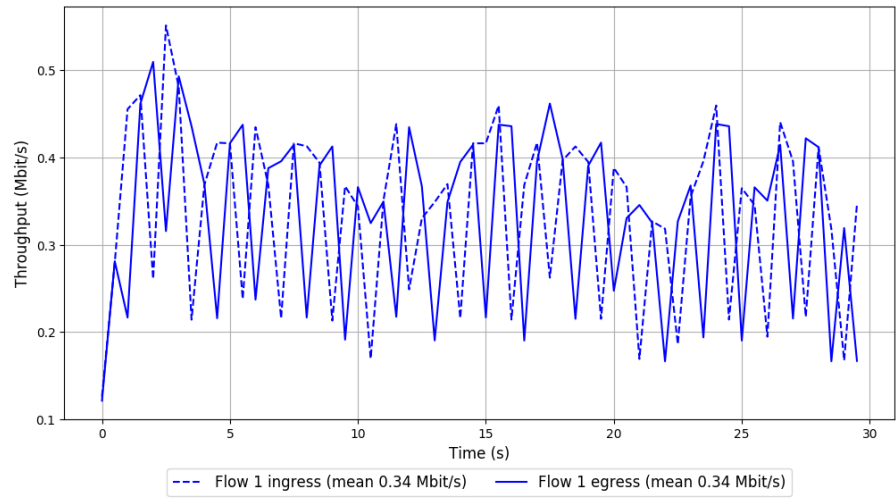
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 136.600 ms

Loss rate: 0.91%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-03 18:09:45

End at: 2018-04-03 18:10:15

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.547 ms

Loss rate: 1.08%

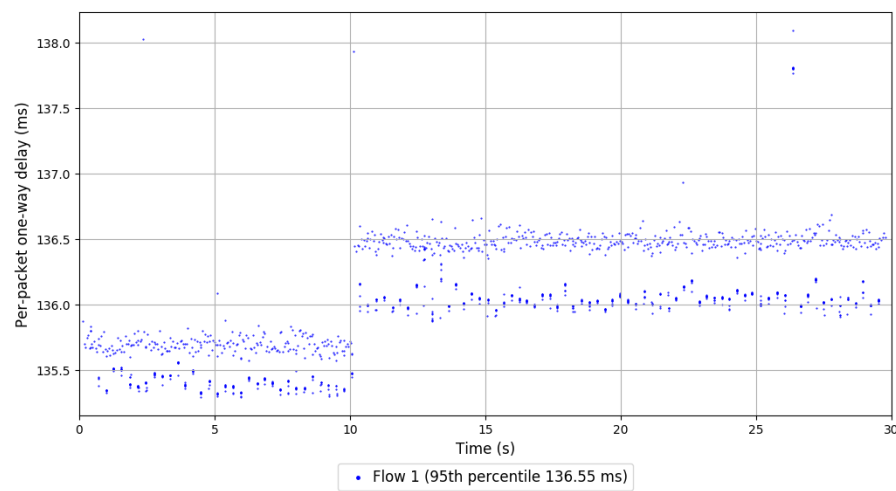
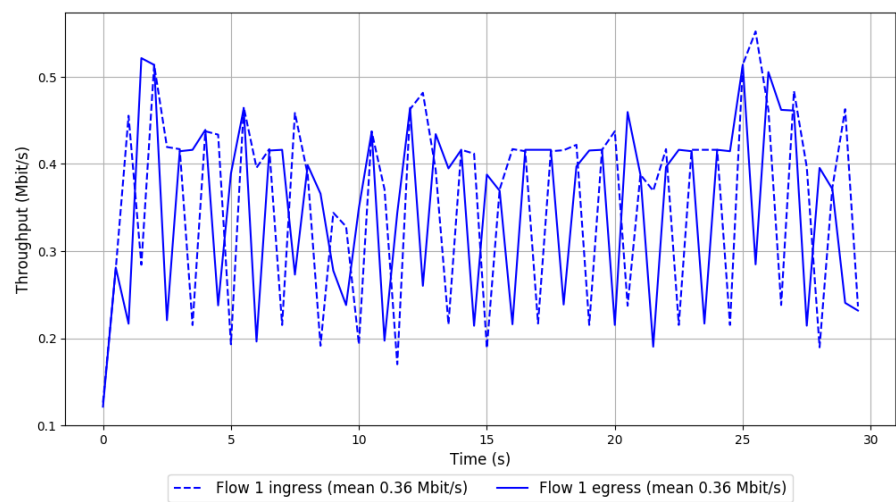
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.547 ms

Loss rate: 1.08%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-03 18:25:20

End at: 2018-04-03 18:25:50

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 0.83%

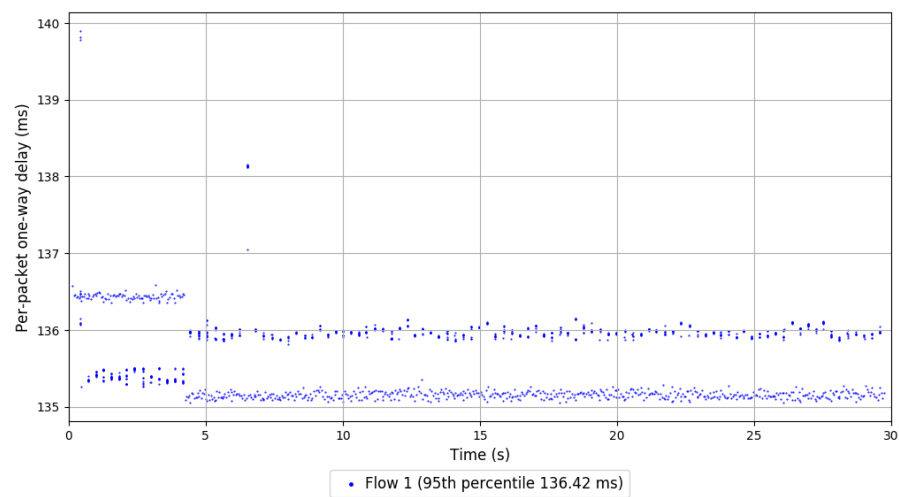
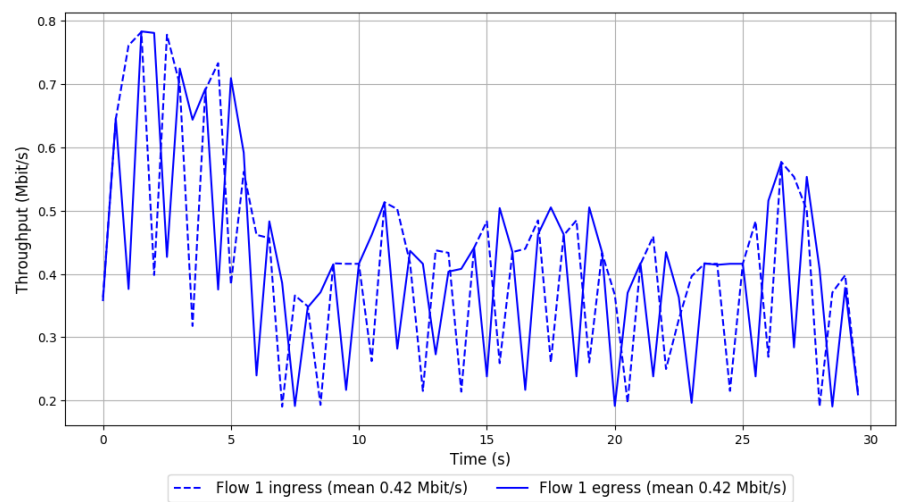
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 0.83%

Run 10: Report of Sprout — Data Link

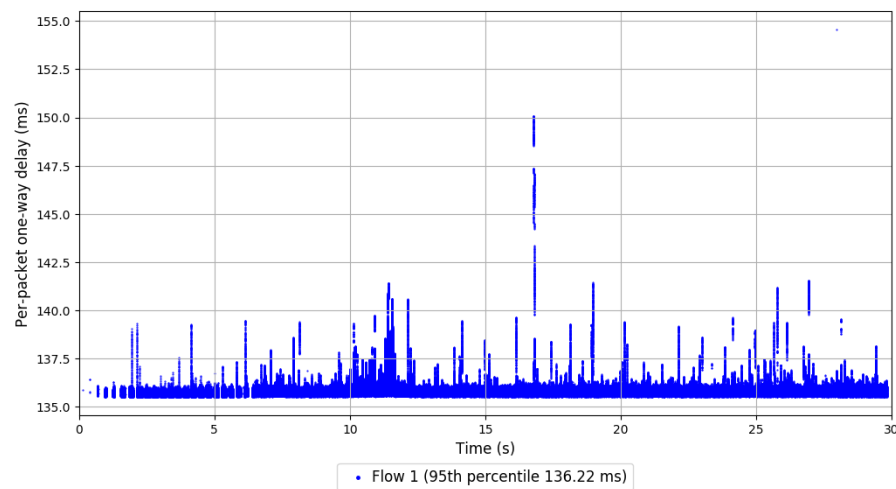
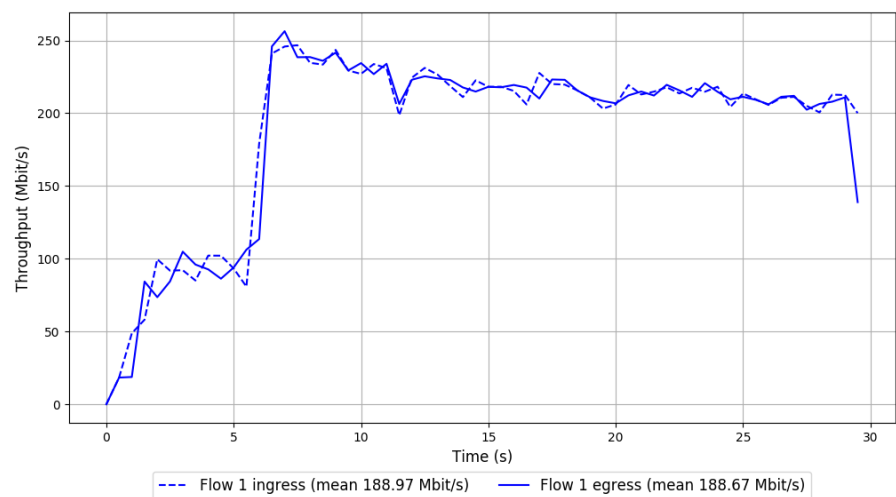


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-03 15:55:37
End at: 2018-04-03 15:56:07

# Below is generated by plot.py at 2018-04-03 21:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.67 Mbit/s
95th percentile per-packet one-way delay: 136.216 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 188.67 Mbit/s
95th percentile per-packet one-way delay: 136.216 ms
Loss rate: 1.06%
```

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

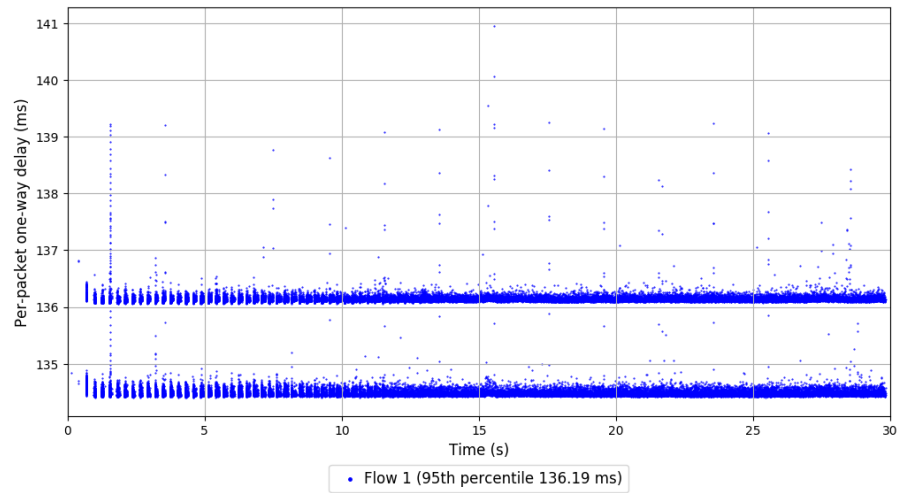
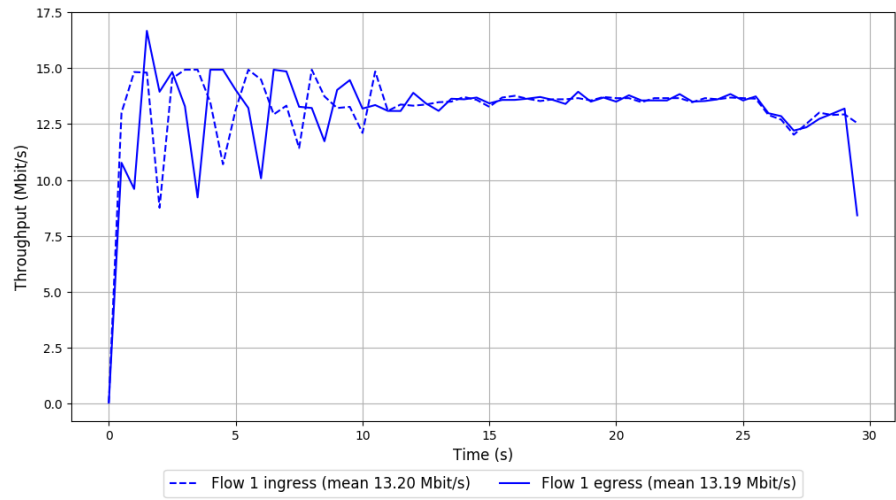


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-03 16:11:33
End at: 2018-04-03 16:12:03

# Below is generated by plot.py at 2018-04-03 21:44:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 136.194 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 13.19 Mbit/s
95th percentile per-packet one-way delay: 136.194 ms
Loss rate: 0.94%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-03 16:27:09

End at: 2018-04-03 16:27:39

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.19 Mbit/s

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

Loss rate: 1.13%

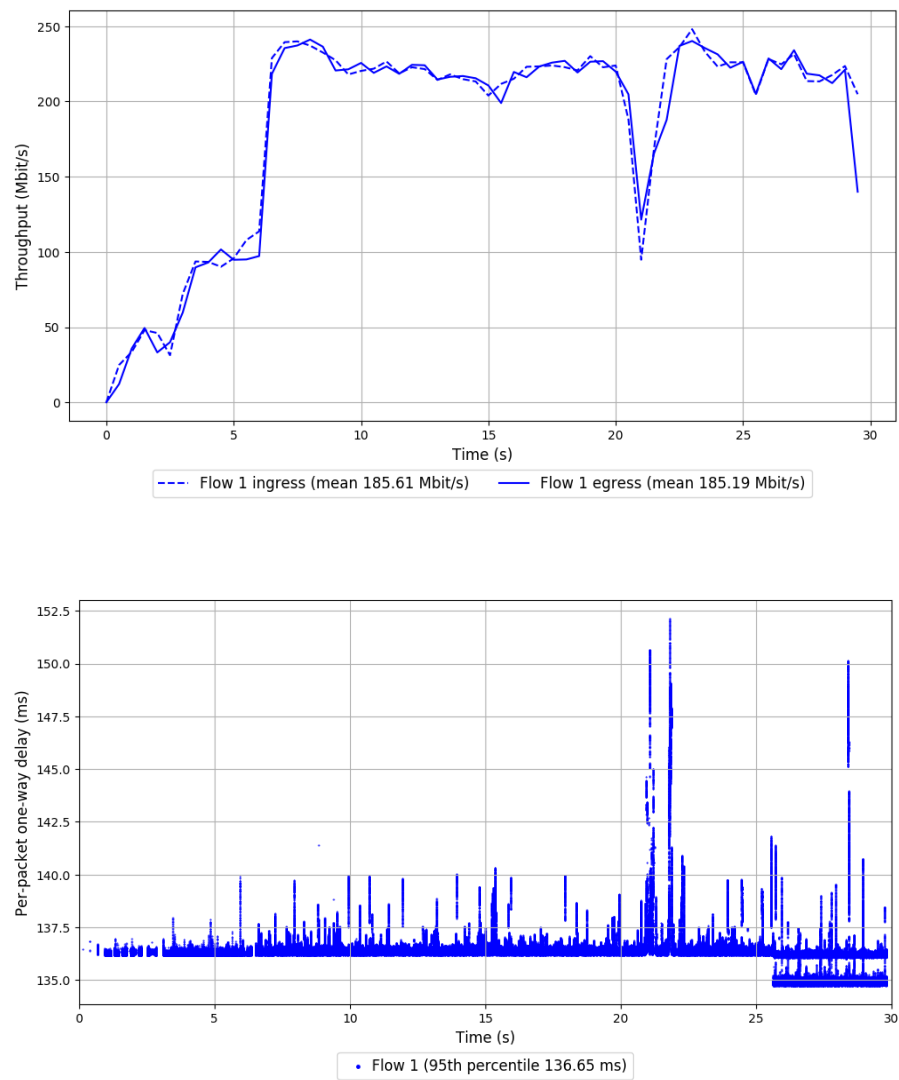
-- Flow 1:

Average throughput: 185.19 Mbit/s

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

Loss rate: 1.13%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-03 16:42:58

End at: 2018-04-03 16:43:28

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.70 Mbit/s

95th percentile per-packet one-way delay: 136.071 ms

Loss rate: 1.04%

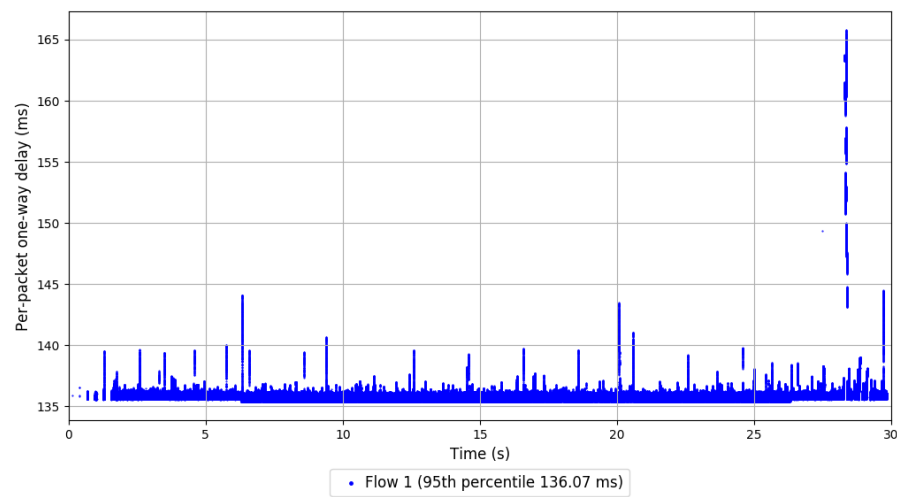
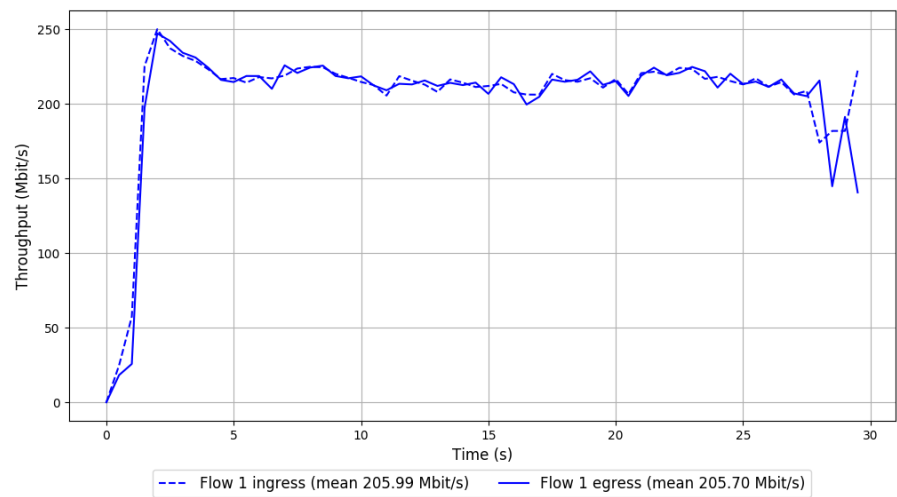
-- Flow 1:

Average throughput: 205.70 Mbit/s

95th percentile per-packet one-way delay: 136.071 ms

Loss rate: 1.04%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-03 16:58:51

End at: 2018-04-03 16:59:21

Below is generated by plot.py at 2018-04-03 21:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.08 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 0.99%

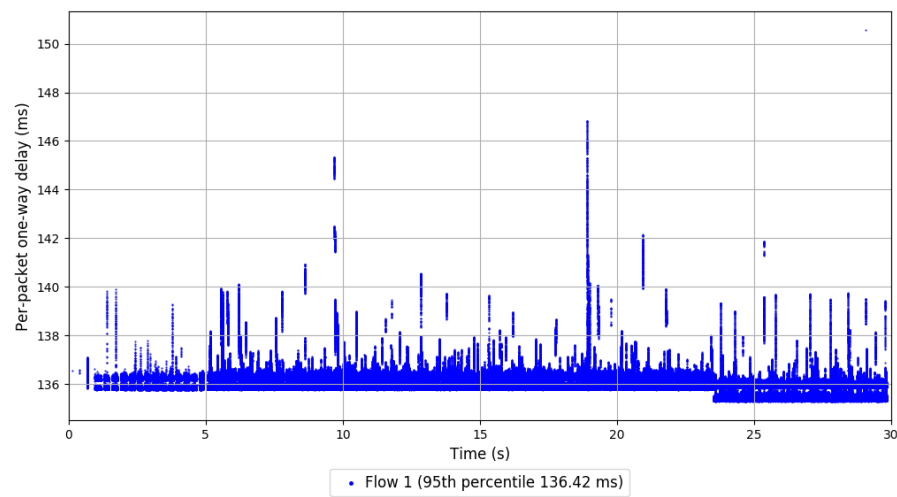
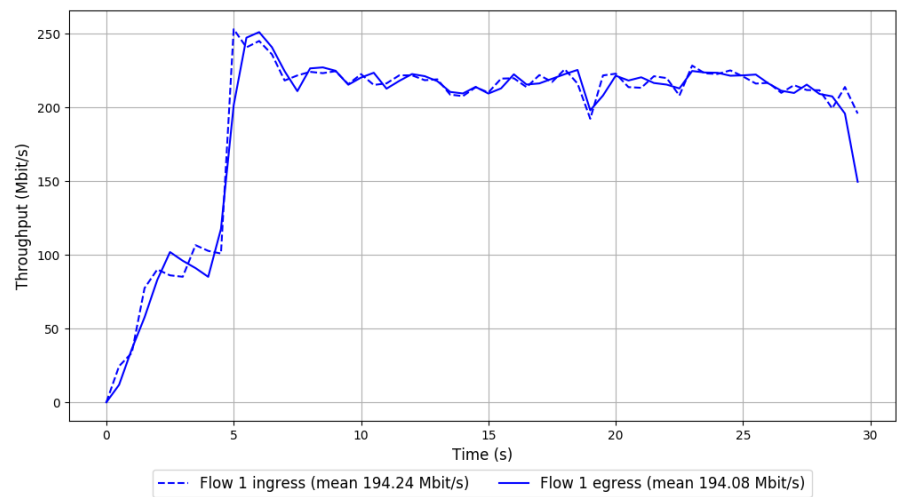
-- Flow 1:

Average throughput: 194.08 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 0.99%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-03 17:14:42

End at: 2018-04-03 17:15:12

Below is generated by plot.py at 2018-04-03 21:44:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.76 Mbit/s

95th percentile per-packet one-way delay: 136.669 ms

Loss rate: 0.99%

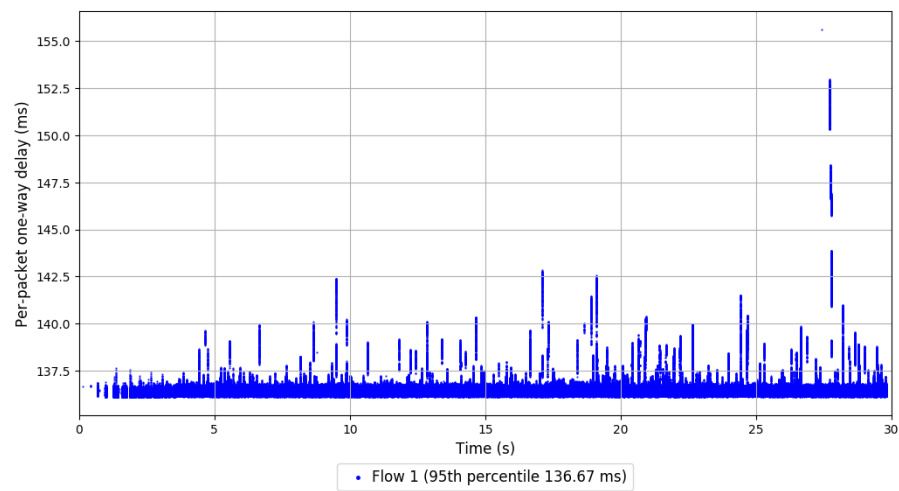
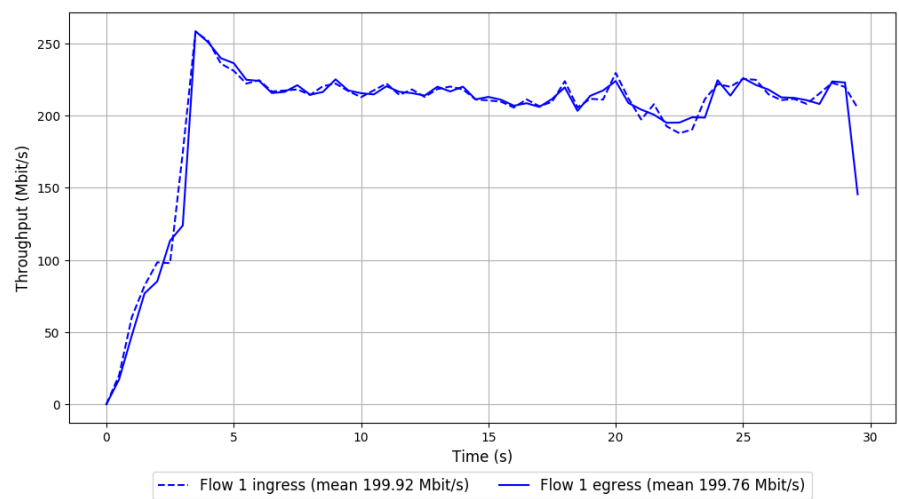
-- Flow 1:

Average throughput: 199.76 Mbit/s

95th percentile per-packet one-way delay: 136.669 ms

Loss rate: 0.99%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-03 17:30:32

End at: 2018-04-03 17:31:02

Below is generated by plot.py at 2018-04-03 21:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.62 Mbit/s

95th percentile per-packet one-way delay: 136.583 ms

Loss rate: 0.99%

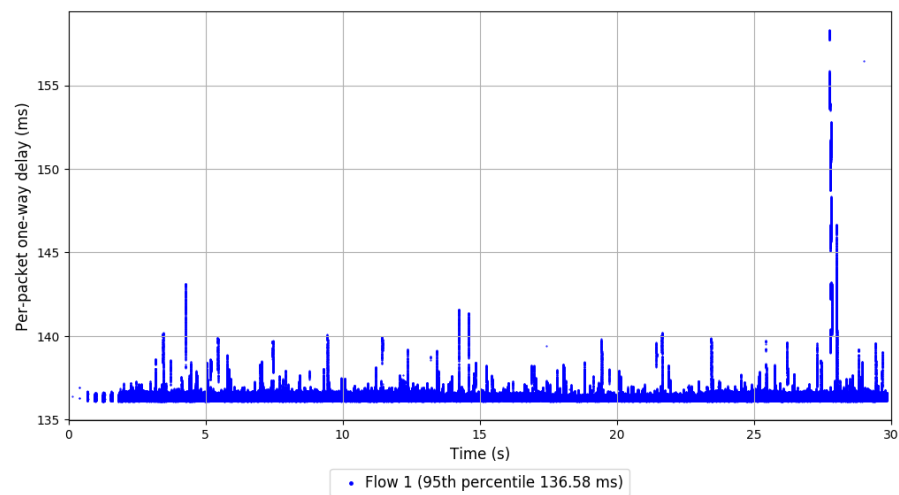
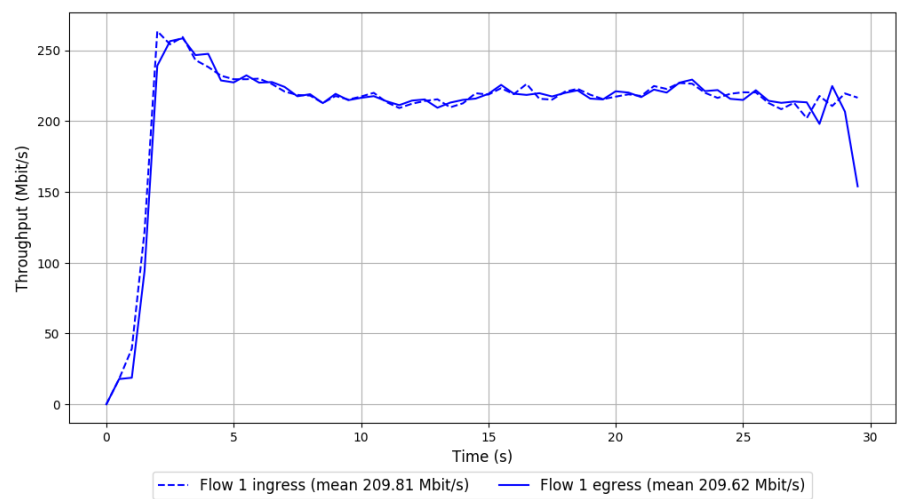
-- Flow 1:

Average throughput: 209.62 Mbit/s

95th percentile per-packet one-way delay: 136.583 ms

Loss rate: 0.99%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-03 17:46:08

End at: 2018-04-03 17:46:38

Below is generated by plot.py at 2018-04-03 21:45:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.93 Mbit/s

95th percentile per-packet one-way delay: 136.352 ms

Loss rate: 0.43%

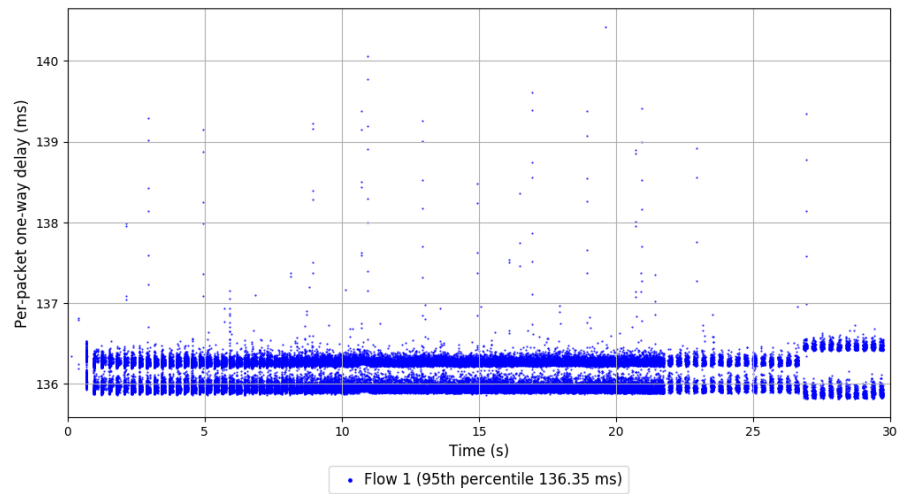
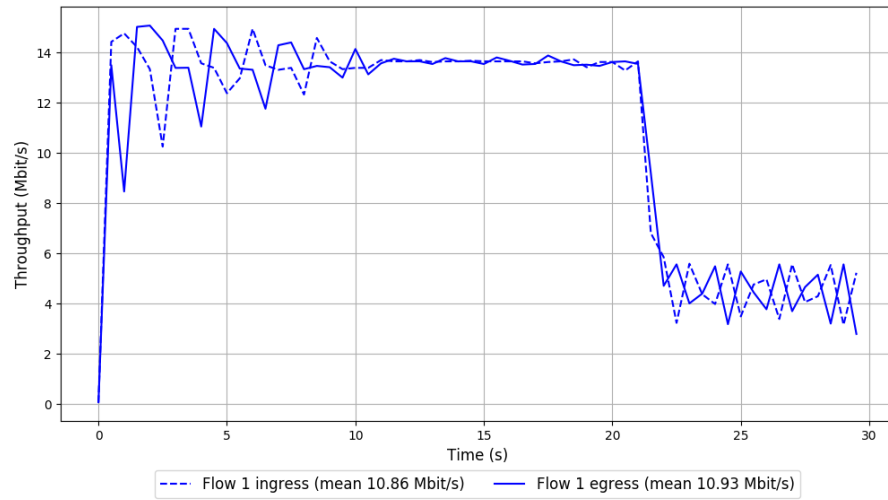
-- Flow 1:

Average throughput: 10.93 Mbit/s

95th percentile per-packet one-way delay: 136.352 ms

Loss rate: 0.43%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-03 18:01:38

End at: 2018-04-03 18:02:08

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.52 Mbit/s

95th percentile per-packet one-way delay: 135.985 ms

Loss rate: 0.86%

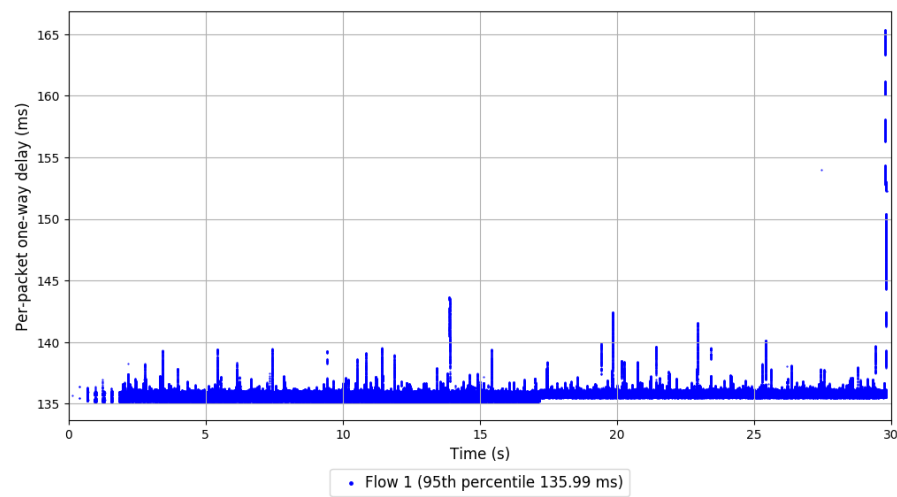
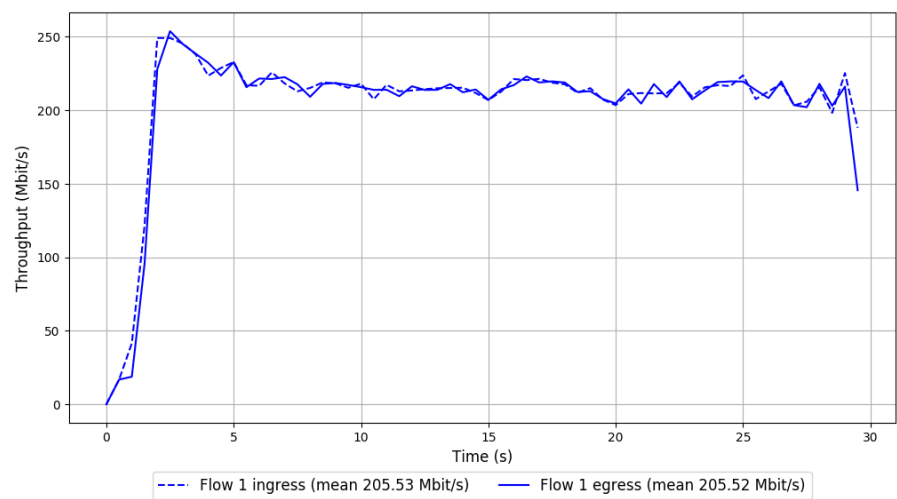
-- Flow 1:

Average throughput: 205.52 Mbit/s

95th percentile per-packet one-way delay: 135.985 ms

Loss rate: 0.86%

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

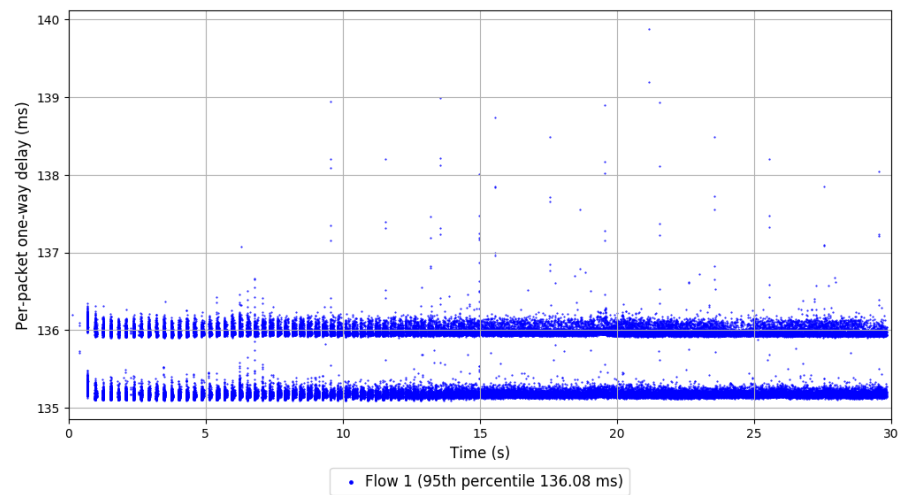
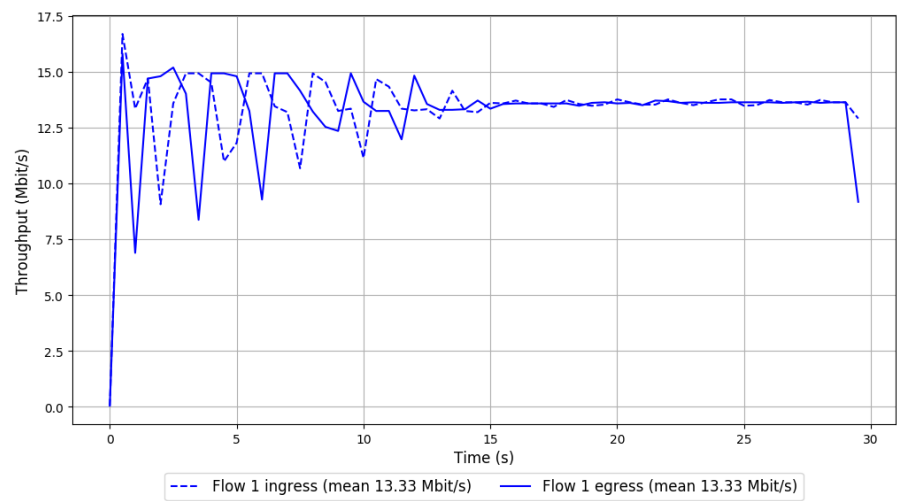


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-03 18:17:29
End at: 2018-04-03 18:17:59

# Below is generated by plot.py at 2018-04-03 21:51:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 136.078 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 13.33 Mbit/s
95th percentile per-packet one-way delay: 136.078 ms
Loss rate: 0.93%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-03 16:01:30

End at: 2018-04-03 16:02:00

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.46 Mbit/s

95th percentile per-packet one-way delay: 144.687 ms

Loss rate: 0.53%

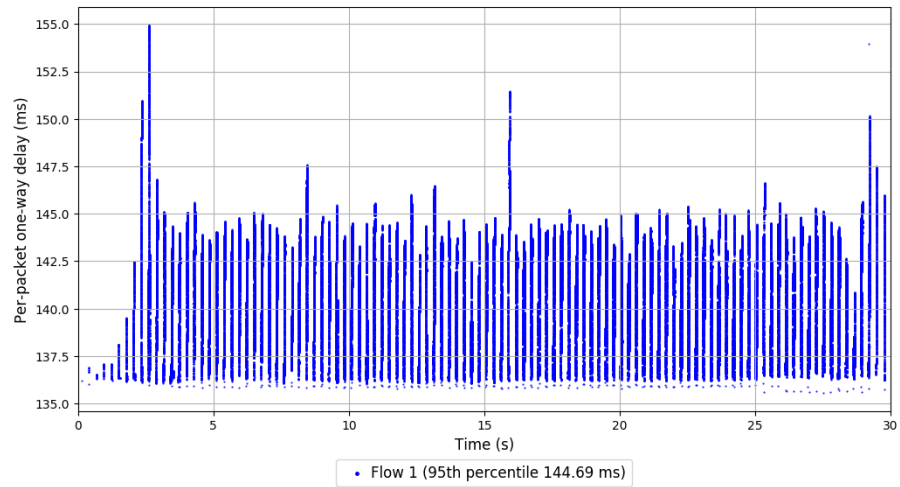
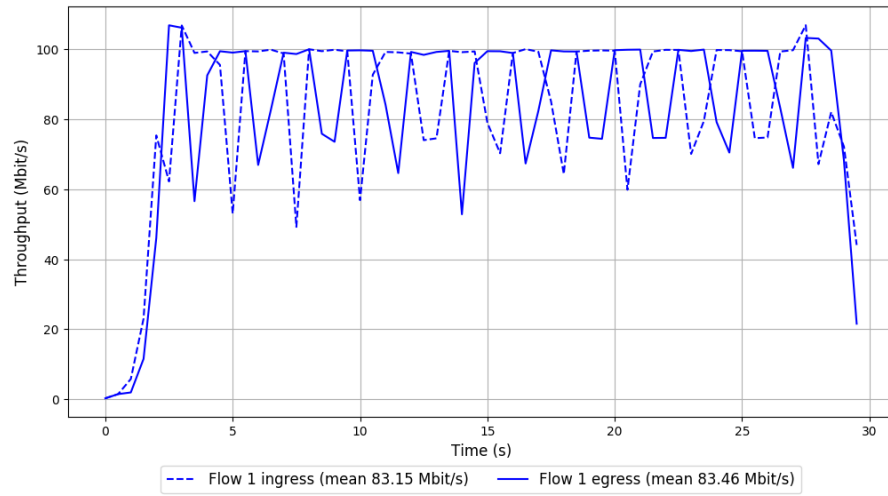
-- Flow 1:

Average throughput: 83.46 Mbit/s

95th percentile per-packet one-way delay: 144.687 ms

Loss rate: 0.53%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-03 16:17:05

End at: 2018-04-03 16:17:35

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 138.304 ms

Loss rate: 0.93%

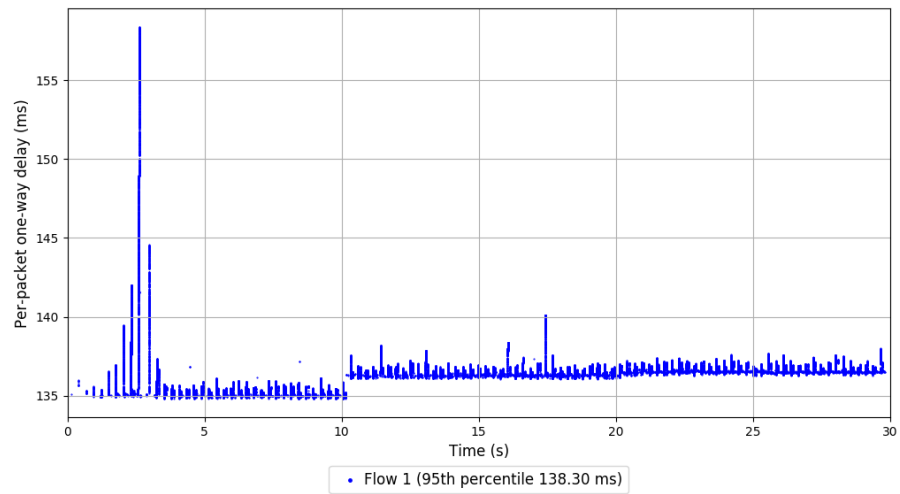
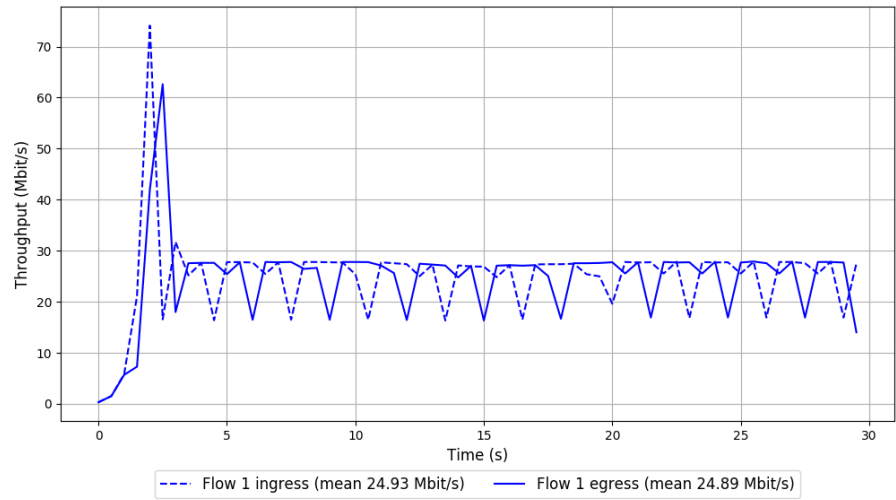
-- Flow 1:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 138.304 ms

Loss rate: 0.93%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-03 16:32:49

End at: 2018-04-03 16:33:19

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.63 Mbit/s

95th percentile per-packet one-way delay: 143.684 ms

Loss rate: 0.33%

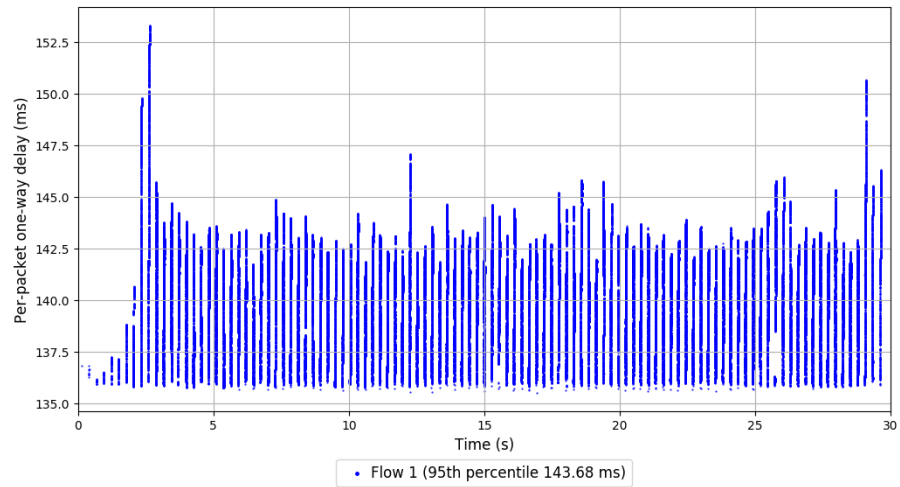
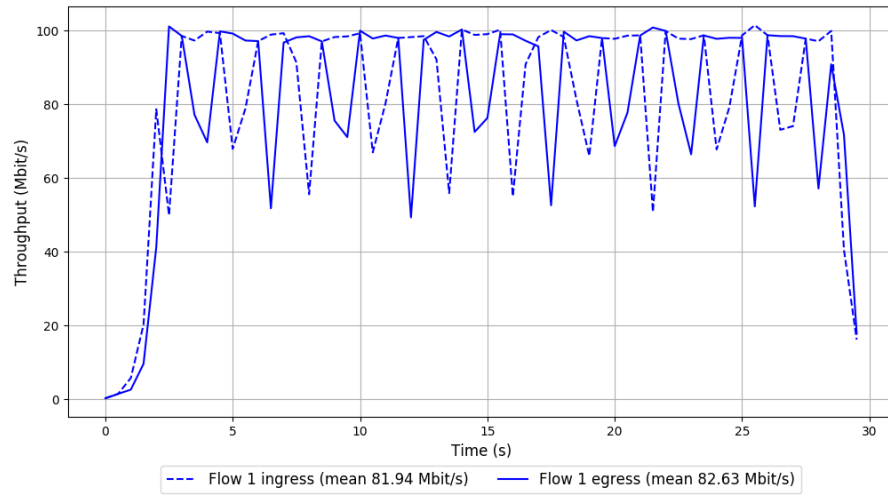
-- Flow 1:

Average throughput: 82.63 Mbit/s

95th percentile per-packet one-way delay: 143.684 ms

Loss rate: 0.33%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-03 16:48:41

End at: 2018-04-03 16:49:11

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.32 Mbit/s

95th percentile per-packet one-way delay: 143.817 ms

Loss rate: 0.56%

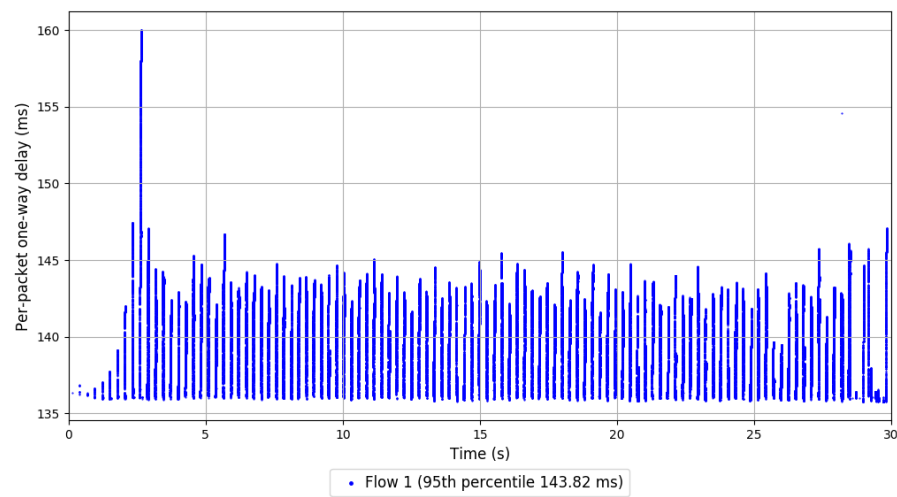
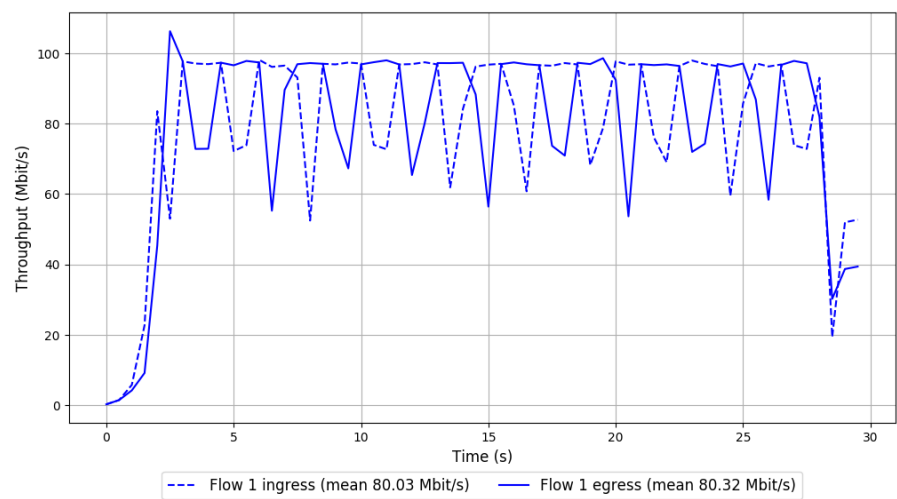
-- Flow 1:

Average throughput: 80.32 Mbit/s

95th percentile per-packet one-way delay: 143.817 ms

Loss rate: 0.56%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-03 17:04:41

End at: 2018-04-03 17:05:11

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 137.622 ms

Loss rate: 0.95%

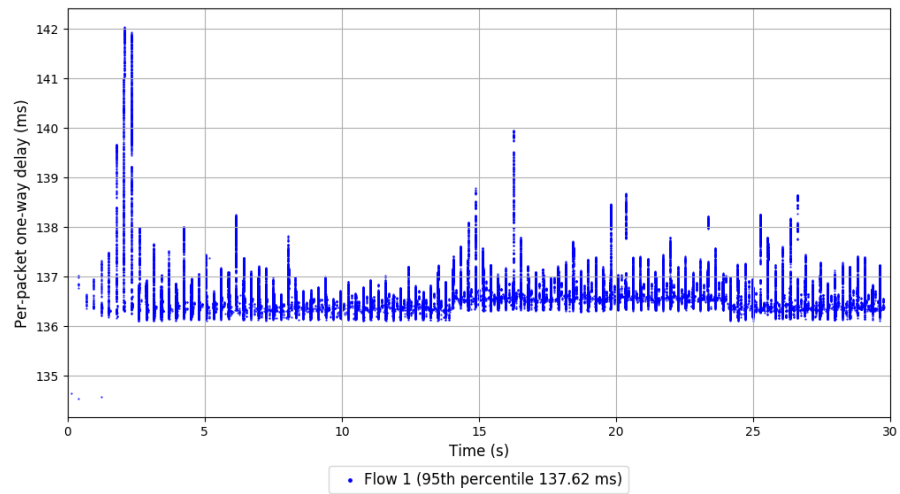
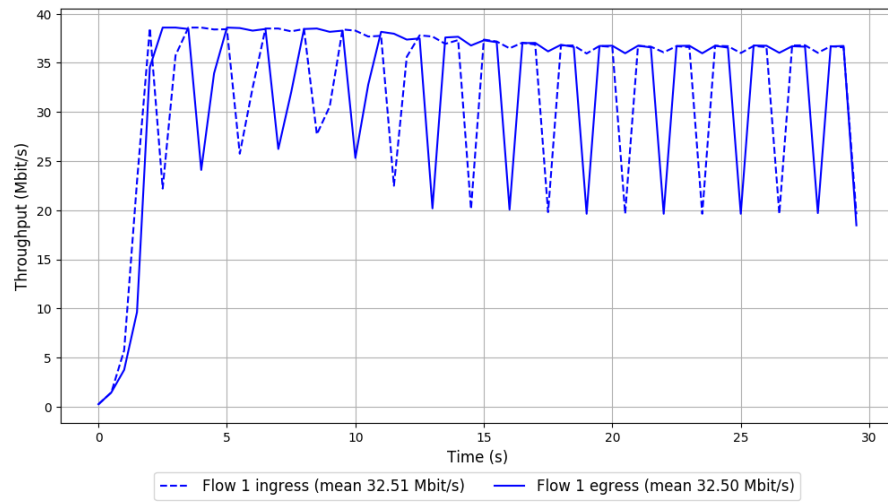
-- Flow 1:

Average throughput: 32.50 Mbit/s

95th percentile per-packet one-way delay: 137.622 ms

Loss rate: 0.95%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-03 17:20:28

End at: 2018-04-03 17:20:58

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.75 Mbit/s

95th percentile per-packet one-way delay: 137.539 ms

Loss rate: 1.04%

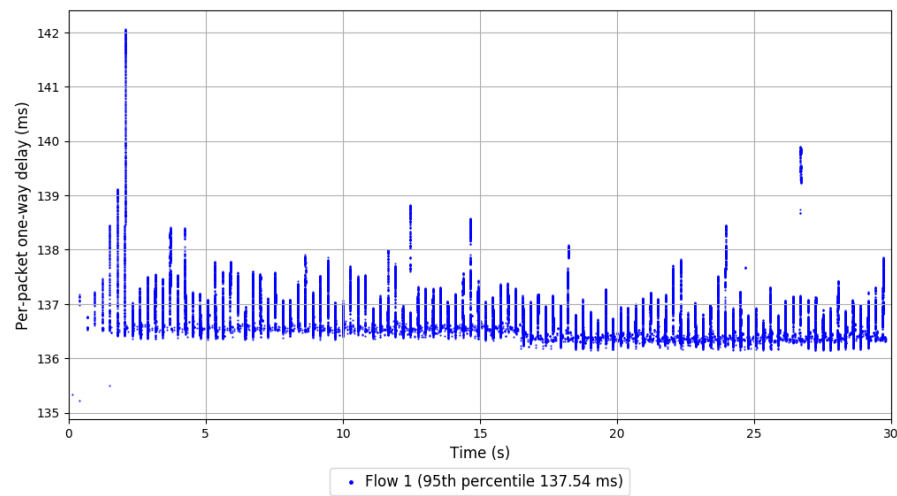
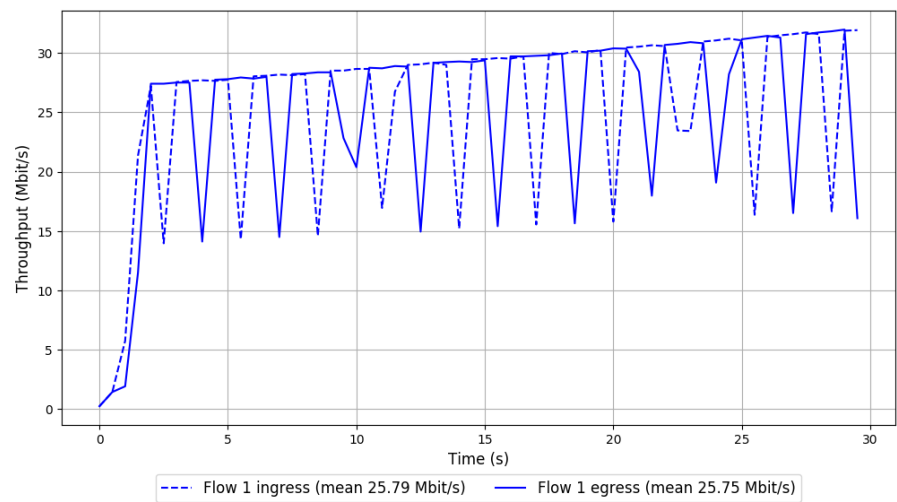
-- Flow 1:

Average throughput: 25.75 Mbit/s

95th percentile per-packet one-way delay: 137.539 ms

Loss rate: 1.04%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-03 17:36:08

End at: 2018-04-03 17:36:38

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 144.006 ms

Loss rate: 0.98%

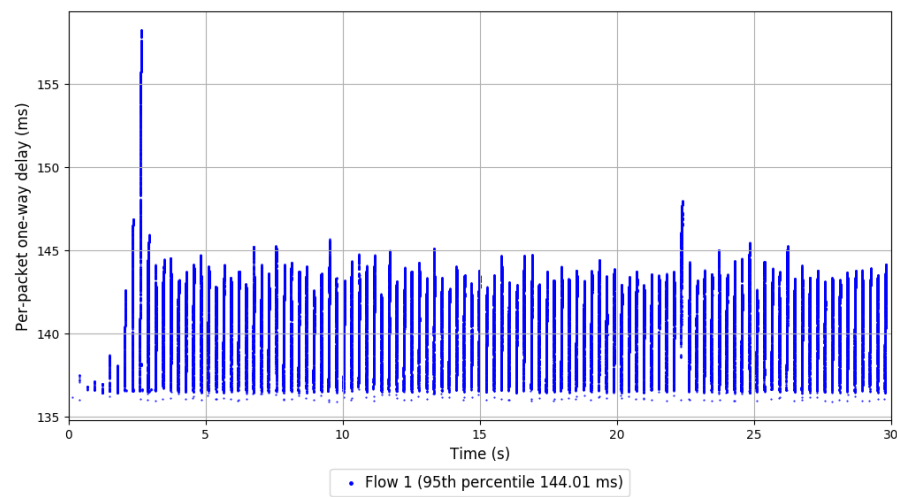
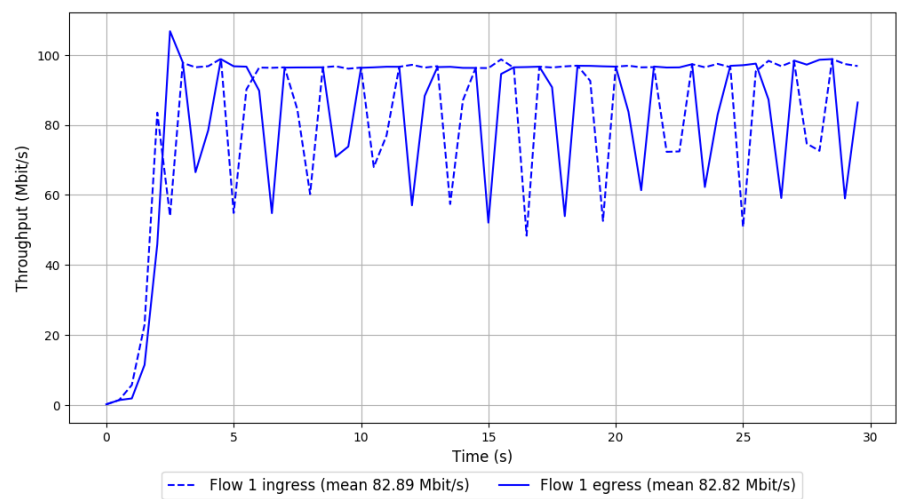
-- Flow 1:

Average throughput: 82.82 Mbit/s

95th percentile per-packet one-way delay: 144.006 ms

Loss rate: 0.98%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-03 17:51:38

End at: 2018-04-03 17:52:08

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.77 Mbit/s

95th percentile per-packet one-way delay: 137.796 ms

Loss rate: 1.03%

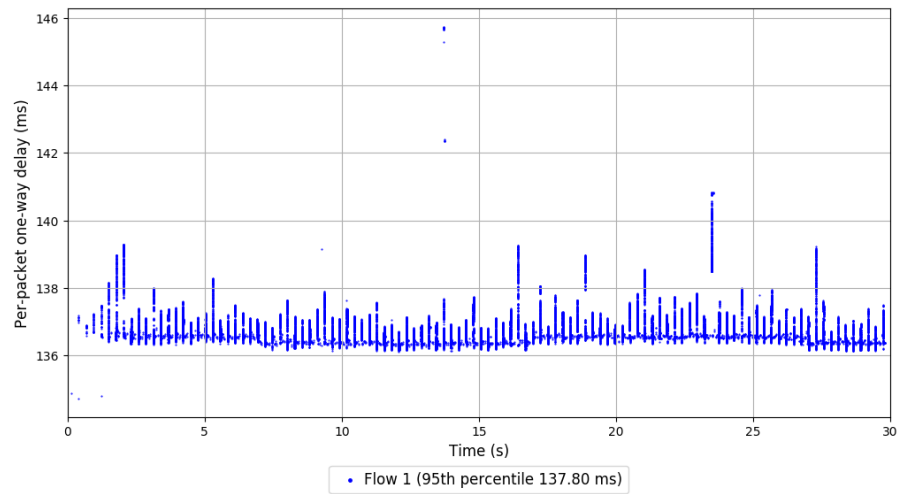
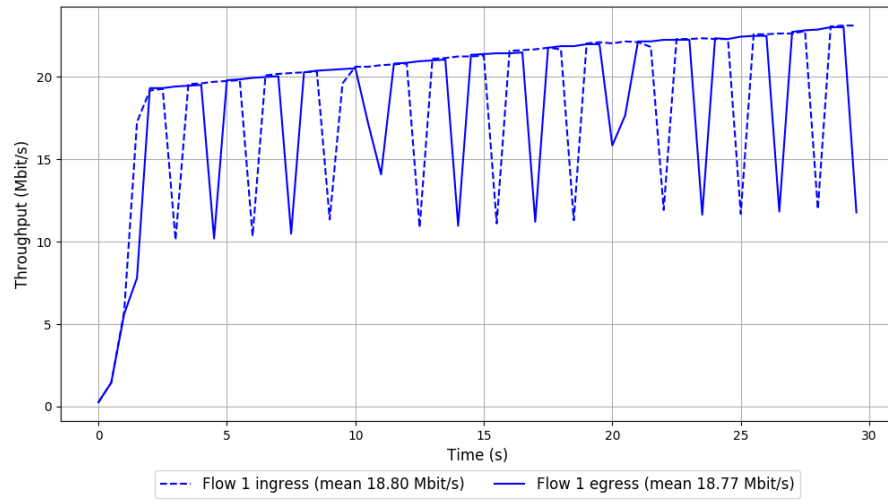
-- Flow 1:

Average throughput: 18.77 Mbit/s

95th percentile per-packet one-way delay: 137.796 ms

Loss rate: 1.03%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-03 18:07:25

End at: 2018-04-03 18:07:55

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 137.546 ms

Loss rate: 0.96%

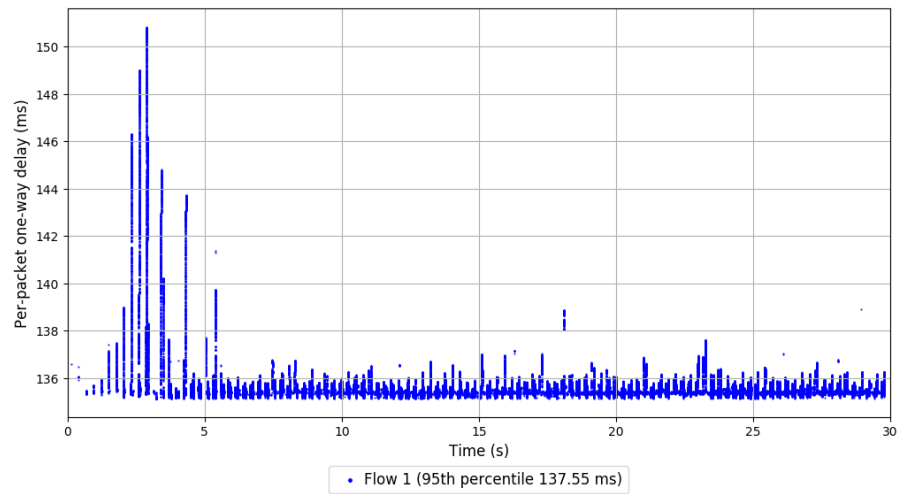
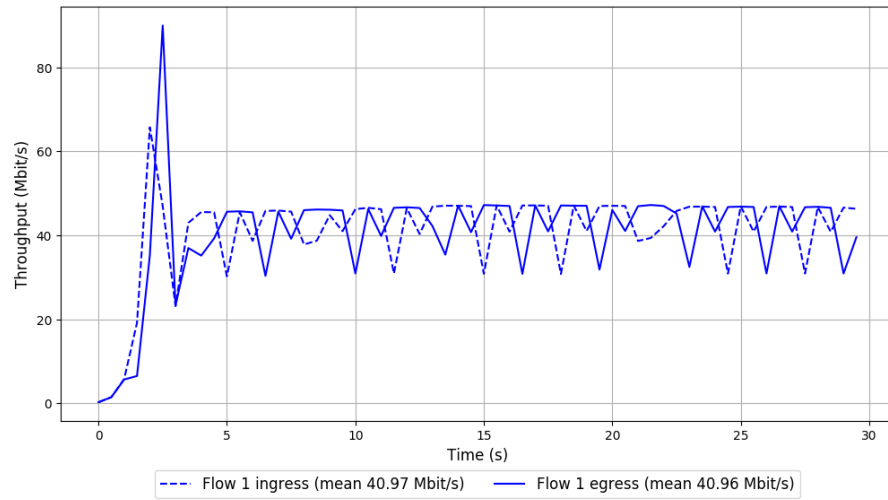
-- Flow 1:

Average throughput: 40.96 Mbit/s

95th percentile per-packet one-way delay: 137.546 ms

Loss rate: 0.96%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-03 18:23:00

End at: 2018-04-03 18:23:30

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 137.268 ms

Loss rate: 0.98%

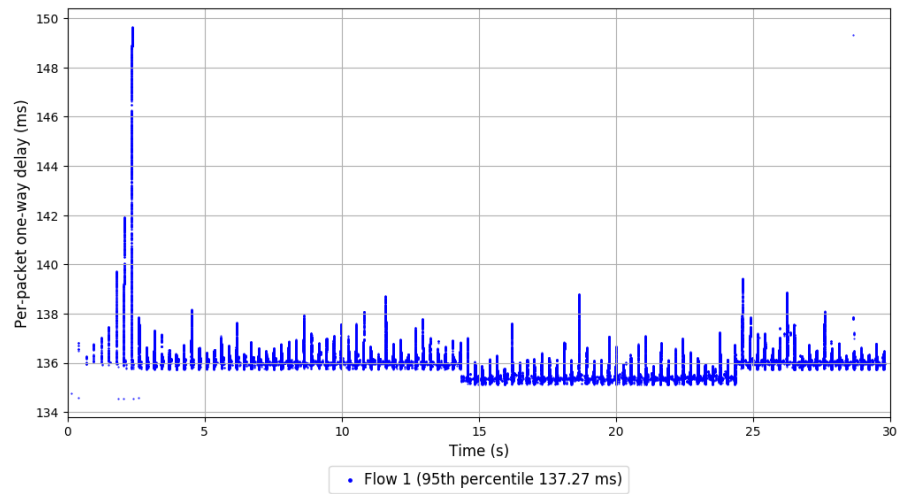
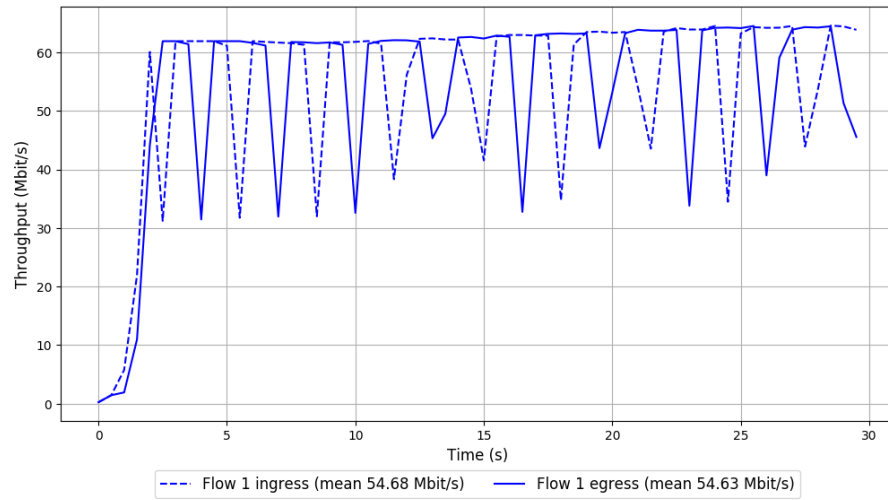
-- Flow 1:

Average throughput: 54.63 Mbit/s

95th percentile per-packet one-way delay: 137.268 ms

Loss rate: 0.98%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-03 15:57:41

End at: 2018-04-03 15:58:11

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.57 Mbit/s

95th percentile per-packet one-way delay: 166.230 ms

Loss rate: 0.76%

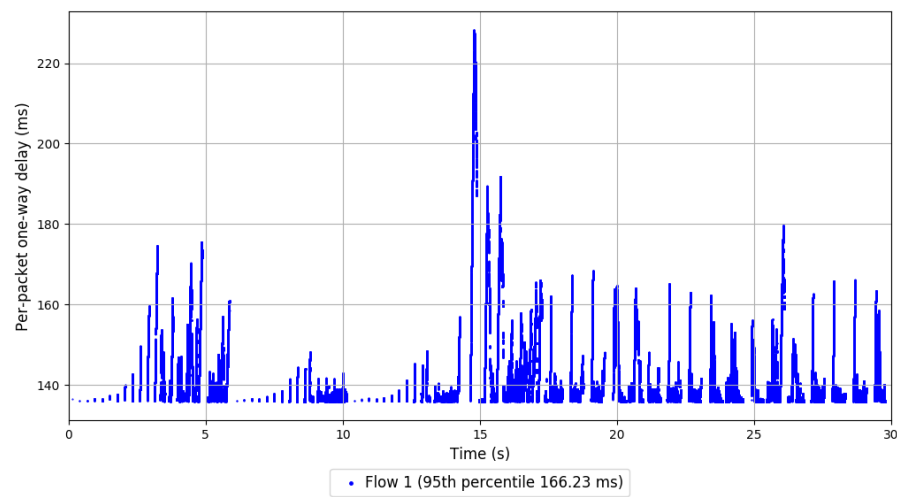
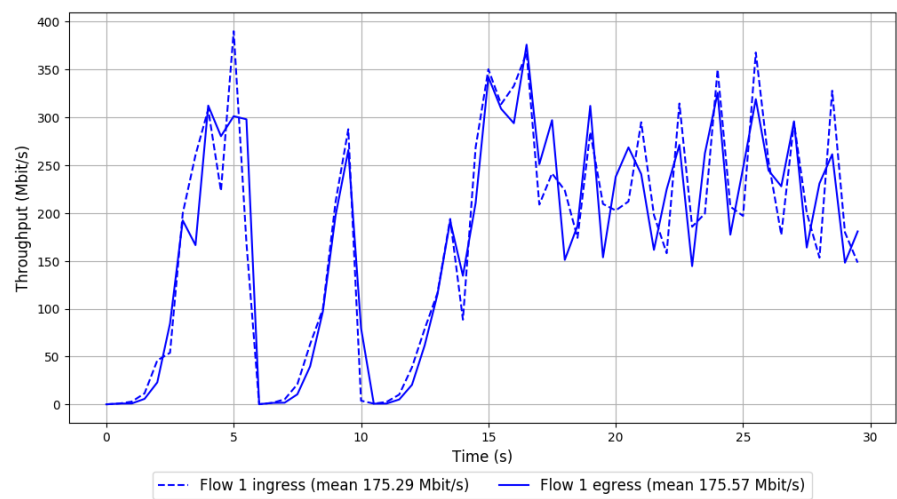
-- Flow 1:

Average throughput: 175.57 Mbit/s

95th percentile per-packet one-way delay: 166.230 ms

Loss rate: 0.76%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-03 16:13:22

End at: 2018-04-03 16:13:52

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 315.753 ms

Loss rate: 4.86%

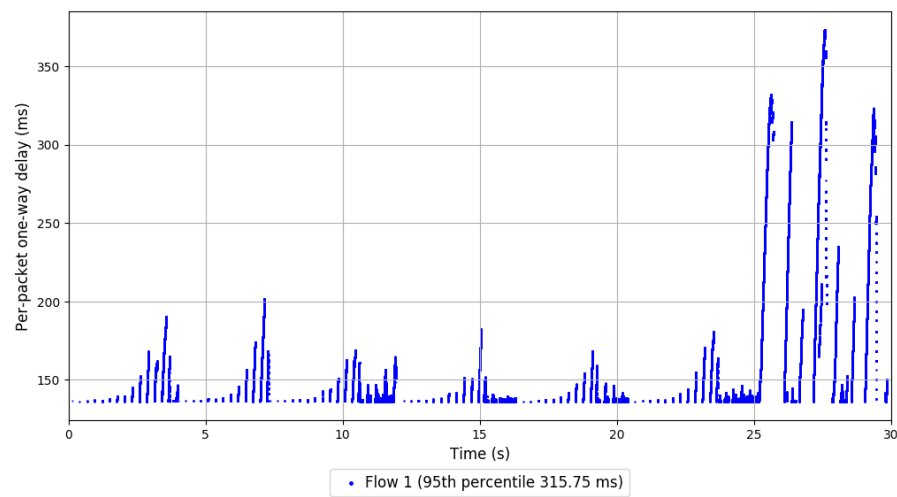
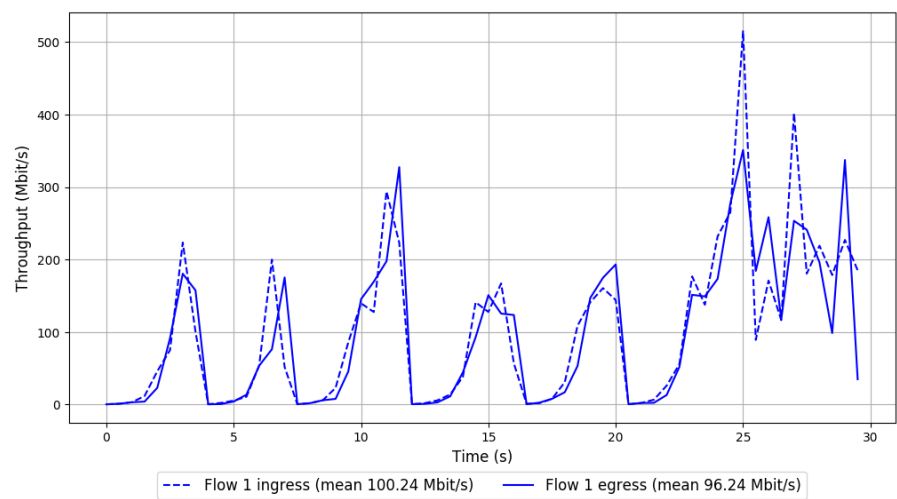
-- Flow 1:

Average throughput: 96.24 Mbit/s

95th percentile per-packet one-way delay: 315.753 ms

Loss rate: 4.86%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-03 16:29:14

End at: 2018-04-03 16:29:44

Below is generated by plot.py at 2018-04-03 21:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.01 Mbit/s

95th percentile per-packet one-way delay: 153.988 ms

Loss rate: 0.00%

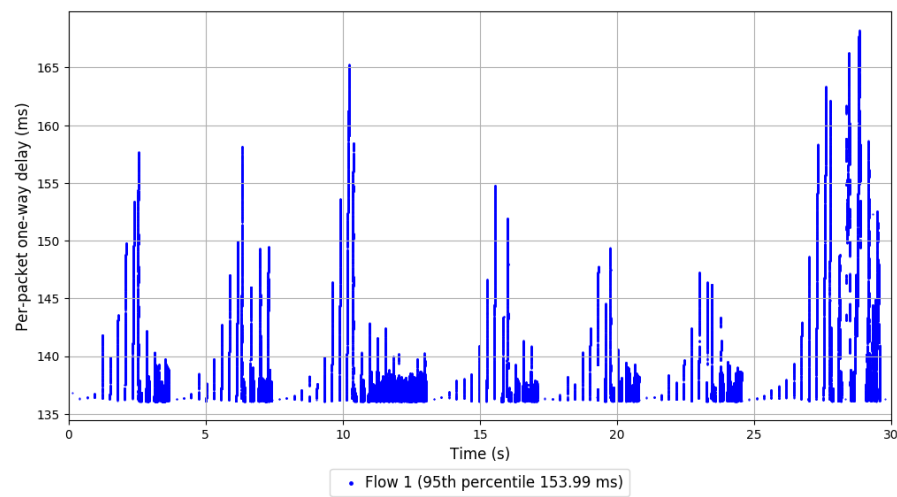
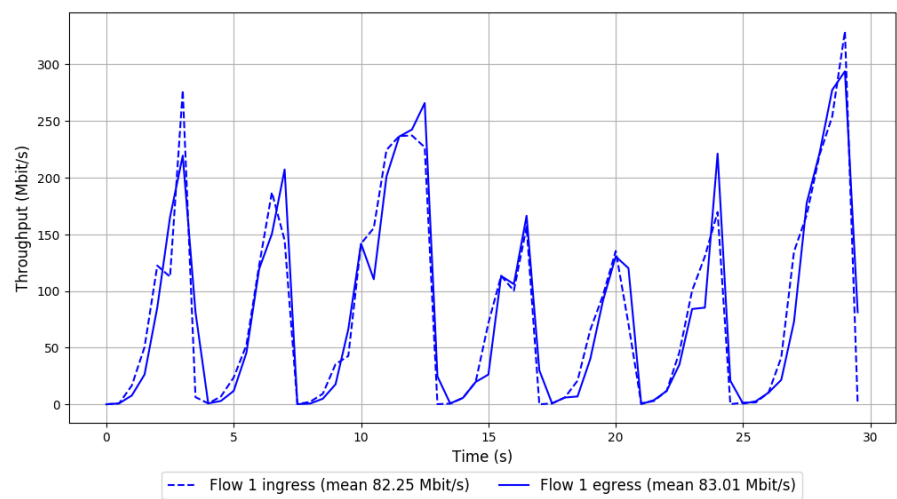
-- Flow 1:

Average throughput: 83.01 Mbit/s

95th percentile per-packet one-way delay: 153.988 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-03 16:45:05

End at: 2018-04-03 16:45:35

Below is generated by plot.py at 2018-04-03 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 170.831 ms

Loss rate: 3.75%

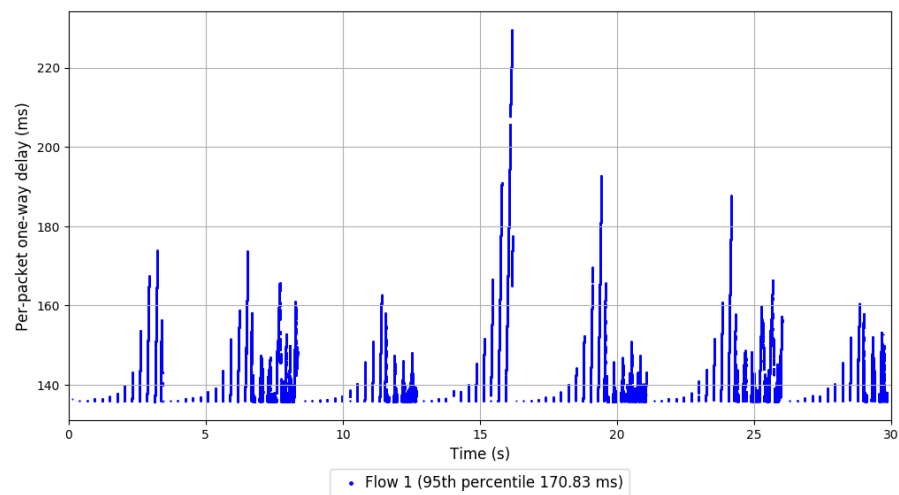
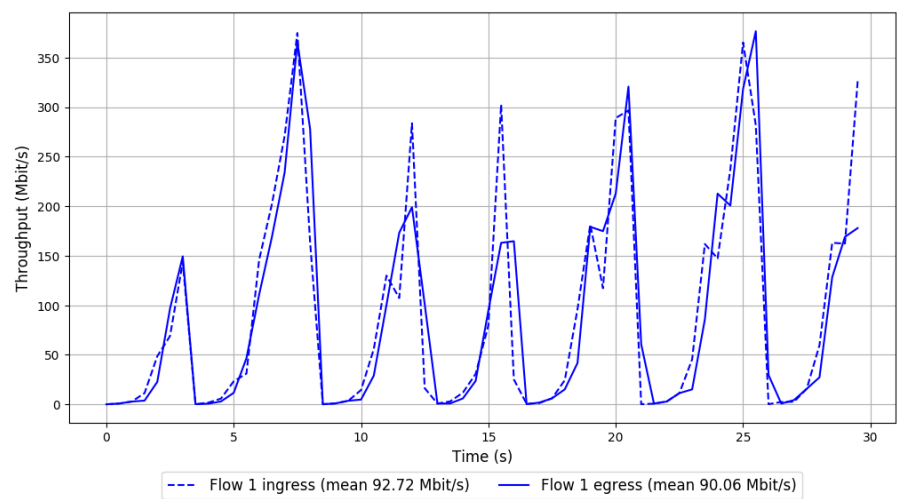
-- Flow 1:

Average throughput: 90.06 Mbit/s

95th percentile per-packet one-way delay: 170.831 ms

Loss rate: 3.75%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-03 17:00:53

End at: 2018-04-03 17:01:23

Below is generated by plot.py at 2018-04-03 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.77 Mbit/s

95th percentile per-packet one-way delay: 180.887 ms

Loss rate: 0.70%

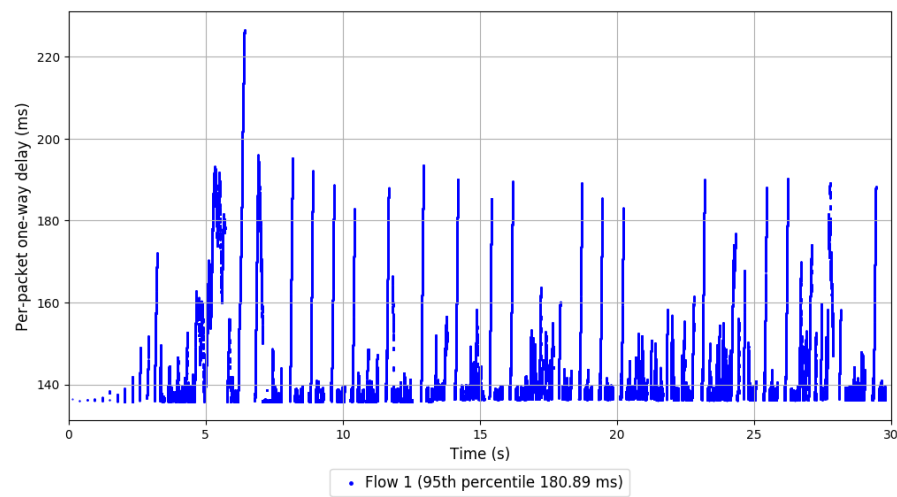
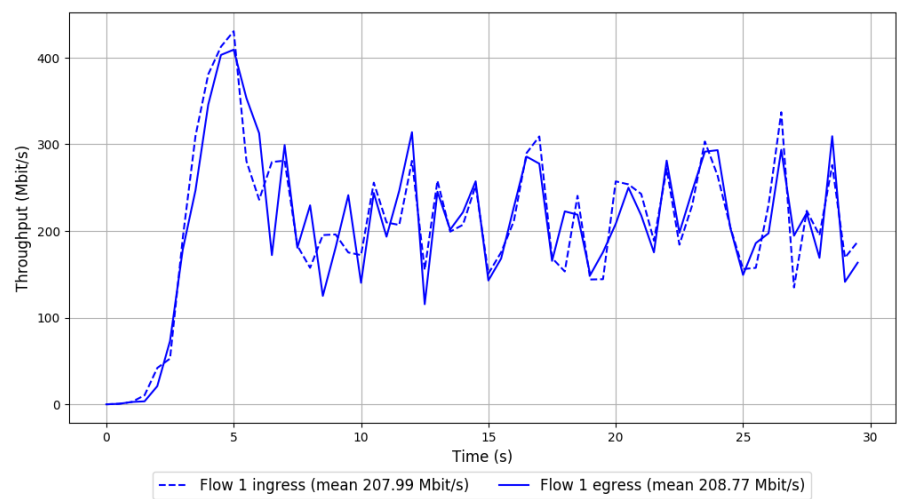
-- Flow 1:

Average throughput: 208.77 Mbit/s

95th percentile per-packet one-way delay: 180.887 ms

Loss rate: 0.70%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-03 17:16:48

End at: 2018-04-03 17:17:18

Below is generated by plot.py at 2018-04-03 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.51 Mbit/s

95th percentile per-packet one-way delay: 191.446 ms

Loss rate: 1.80%

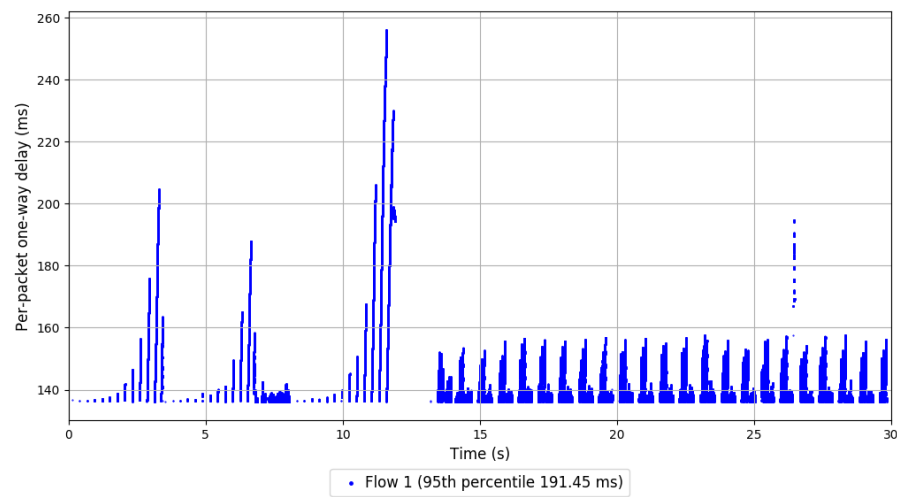
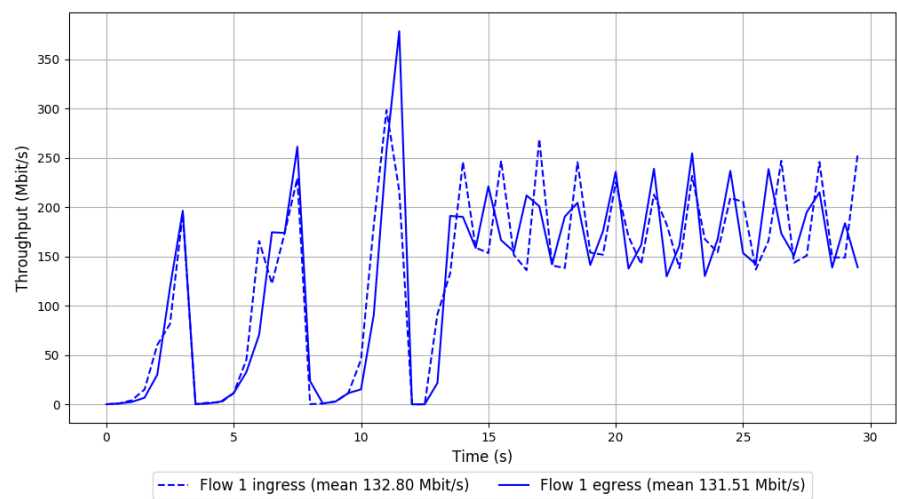
-- Flow 1:

Average throughput: 131.51 Mbit/s

95th percentile per-packet one-way delay: 191.446 ms

Loss rate: 1.80%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-03 17:32:38

End at: 2018-04-03 17:33:08

Below is generated by plot.py at 2018-04-03 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.98 Mbit/s

95th percentile per-packet one-way delay: 197.716 ms

Loss rate: 2.63%

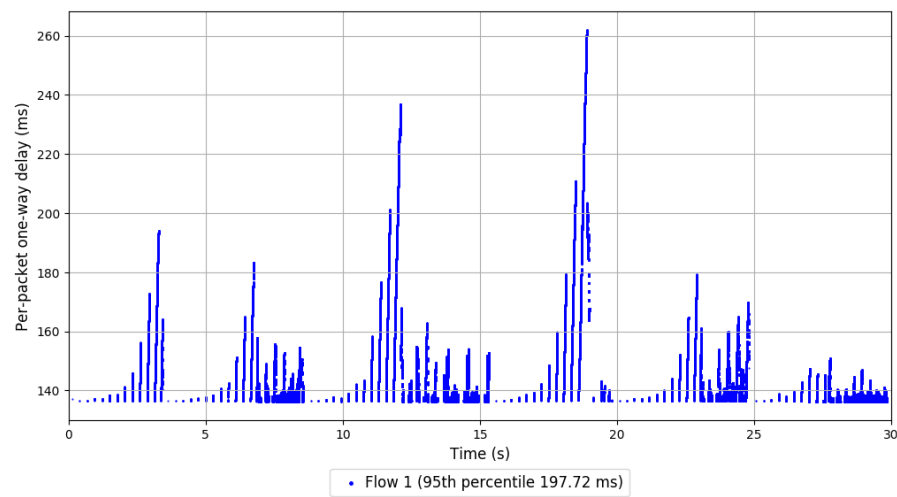
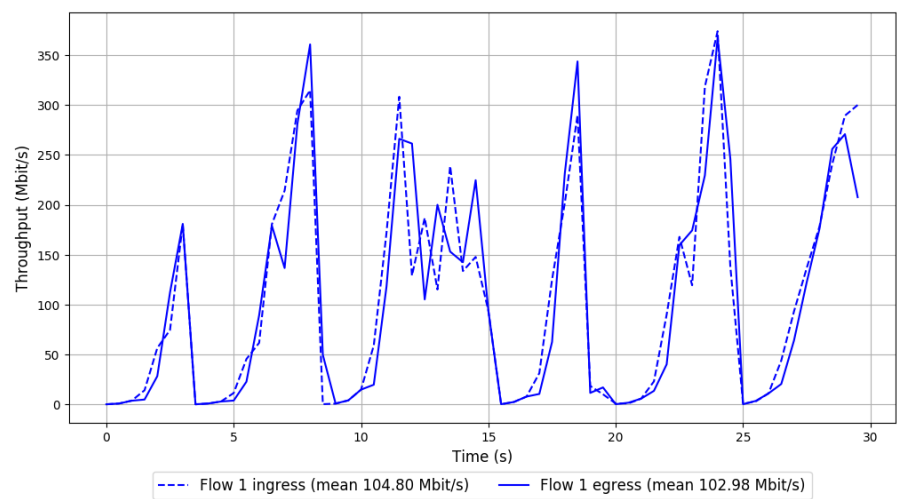
-- Flow 1:

Average throughput: 102.98 Mbit/s

95th percentile per-packet one-way delay: 197.716 ms

Loss rate: 2.63%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-03 17:47:57

End at: 2018-04-03 17:48:27

Below is generated by plot.py at 2018-04-03 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.39 Mbit/s

95th percentile per-packet one-way delay: 150.818 ms

Loss rate: 0.72%

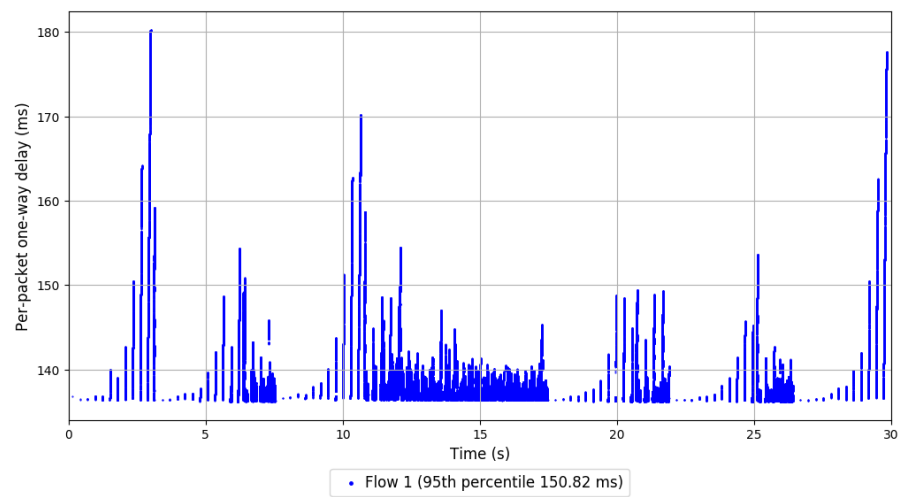
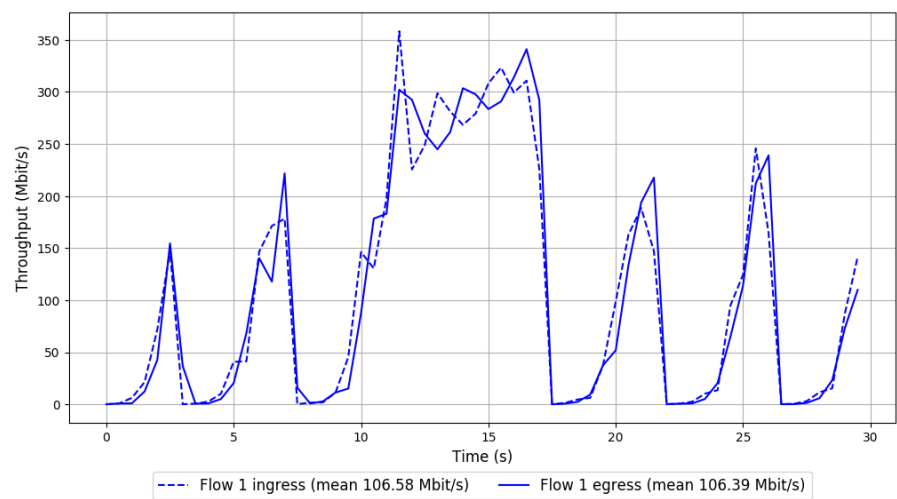
-- Flow 1:

Average throughput: 106.39 Mbit/s

95th percentile per-packet one-way delay: 150.818 ms

Loss rate: 0.72%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-03 18:03:44

End at: 2018-04-03 18:04:14

Below is generated by plot.py at 2018-04-03 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.93 Mbit/s

95th percentile per-packet one-way delay: 186.068 ms

Loss rate: 0.80%

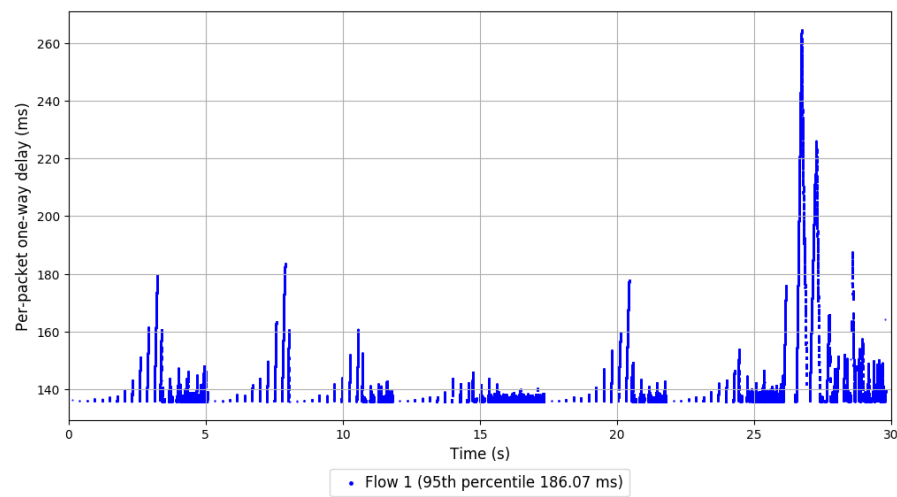
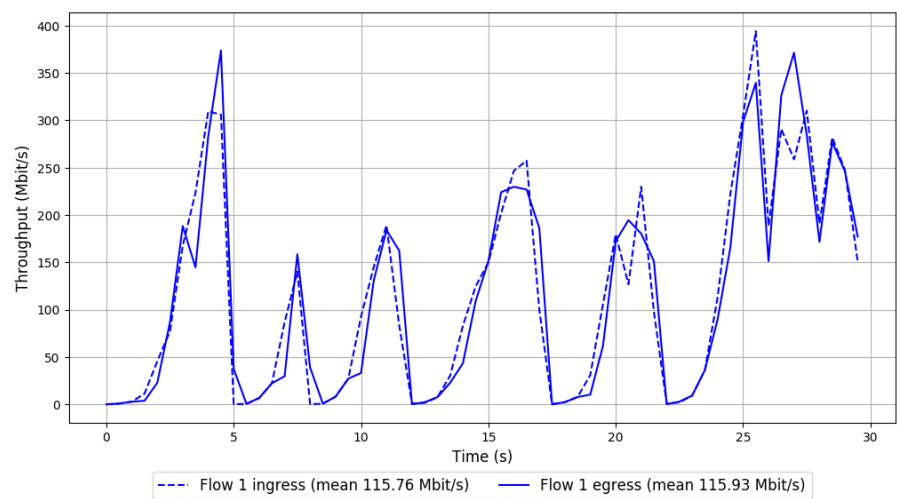
-- Flow 1:

Average throughput: 115.93 Mbit/s

95th percentile per-packet one-way delay: 186.068 ms

Loss rate: 0.80%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-03 18:19:18

End at: 2018-04-03 18:19:48

Below is generated by plot.py at 2018-04-03 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.94 Mbit/s

95th percentile per-packet one-way delay: 255.240 ms

Loss rate: 4.45%

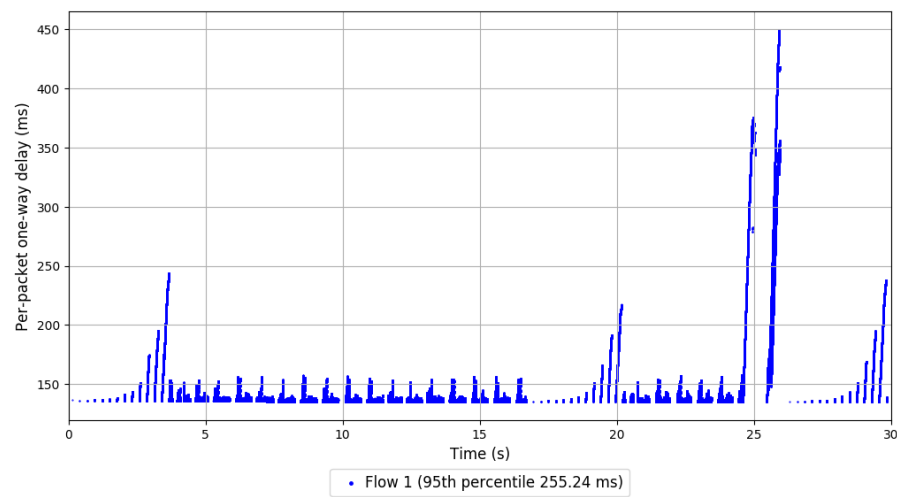
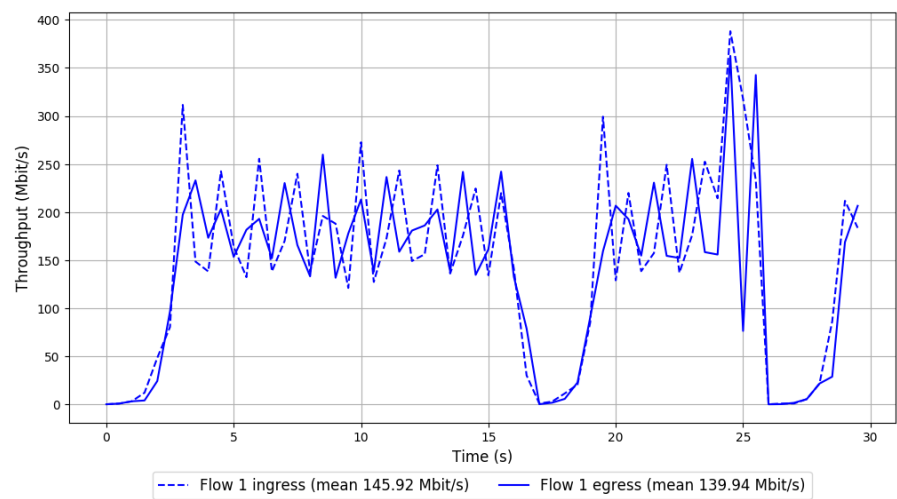
-- Flow 1:

Average throughput: 139.94 Mbit/s

95th percentile per-packet one-way delay: 255.240 ms

Loss rate: 4.45%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-03 15:54:47

End at: 2018-04-03 15:55:17

Below is generated by plot.py at 2018-04-03 21:51:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 135.903 ms

Loss rate: 0.37%

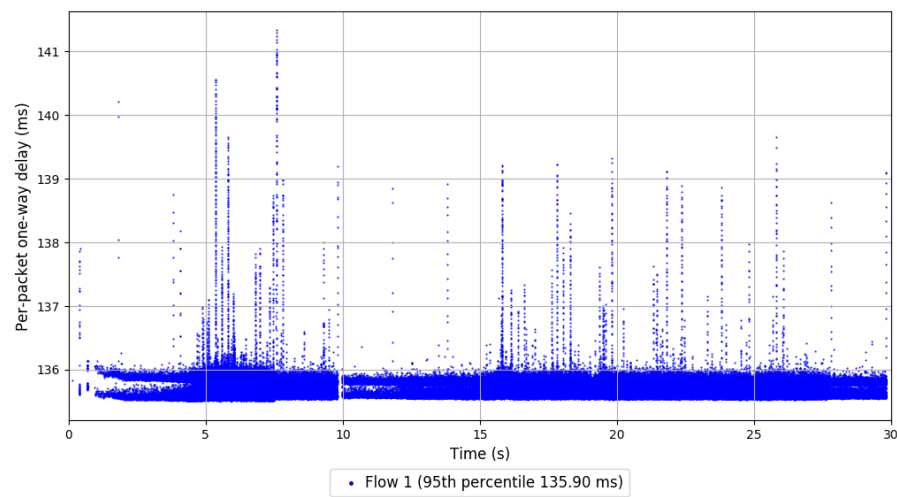
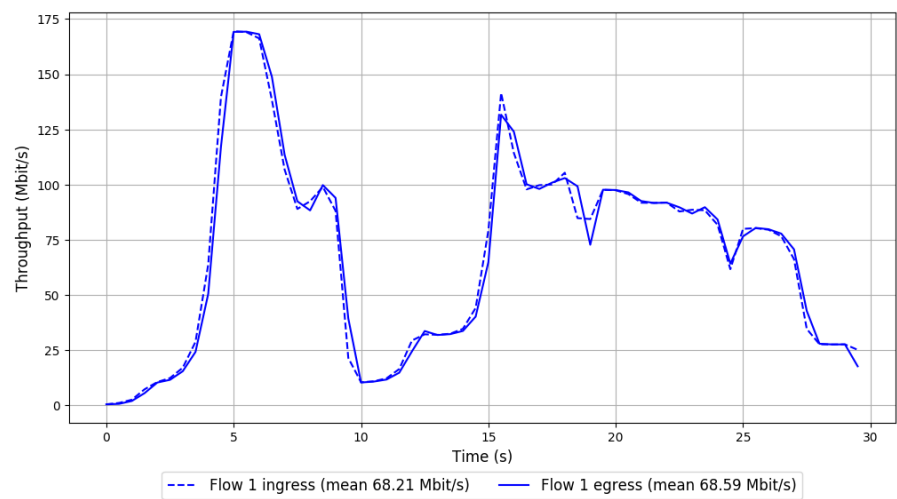
-- Flow 1:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 135.903 ms

Loss rate: 0.37%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-03 16:10:44

End at: 2018-04-03 16:11:14

Below is generated by plot.py at 2018-04-03 21:52:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 136.408 ms

Loss rate: 0.97%

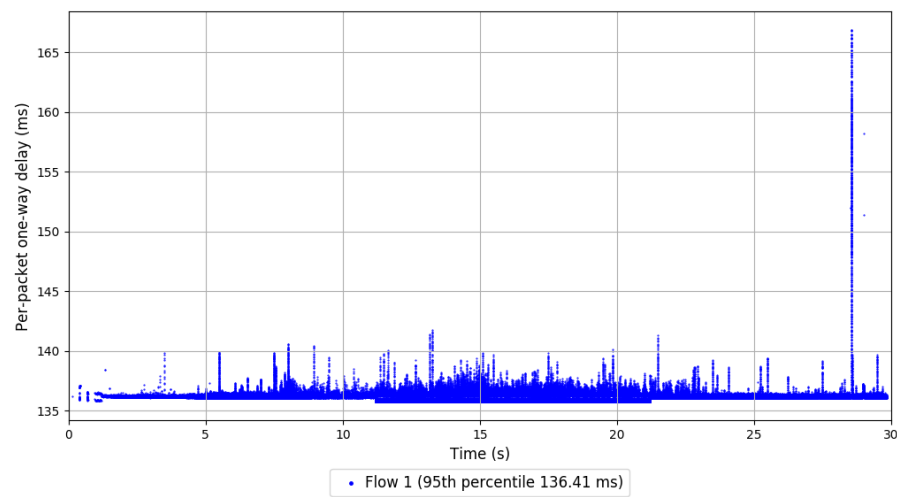
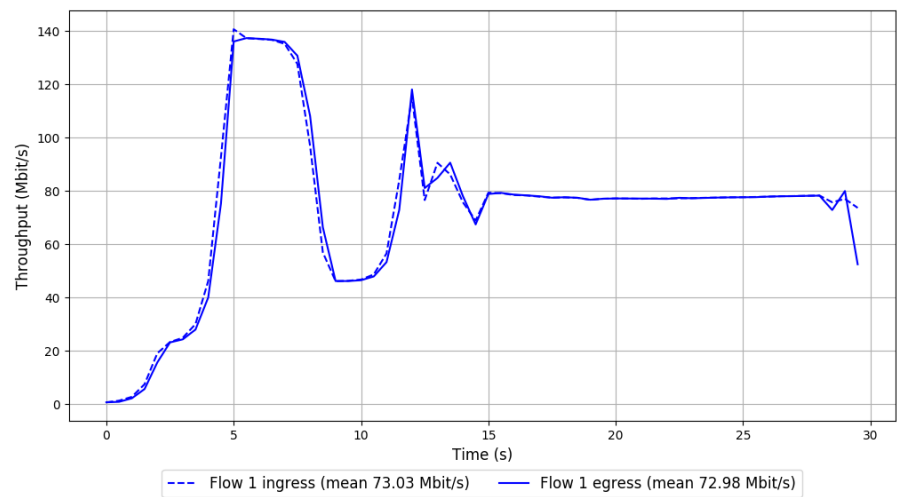
-- Flow 1:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 136.408 ms

Loss rate: 0.97%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-03 16:26:20

End at: 2018-04-03 16:26:50

Below is generated by plot.py at 2018-04-03 21:52:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.04 Mbit/s

95th percentile per-packet one-way delay: 136.578 ms

Loss rate: 0.45%

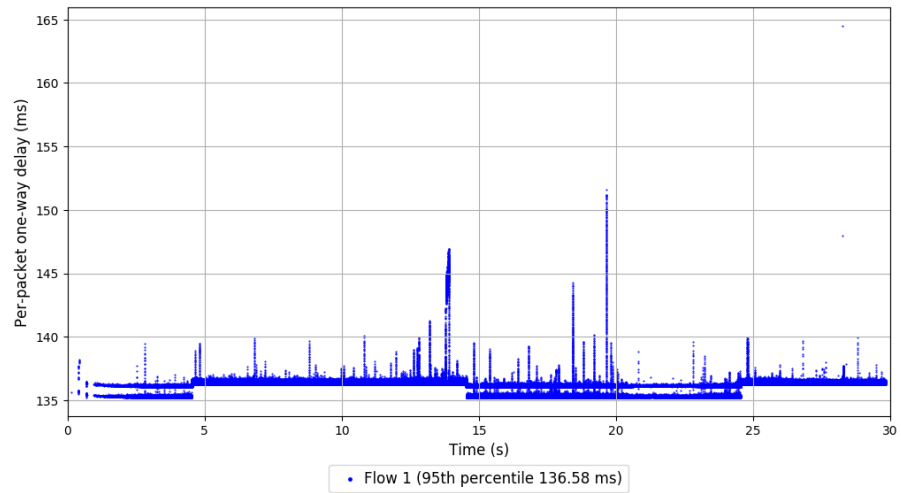
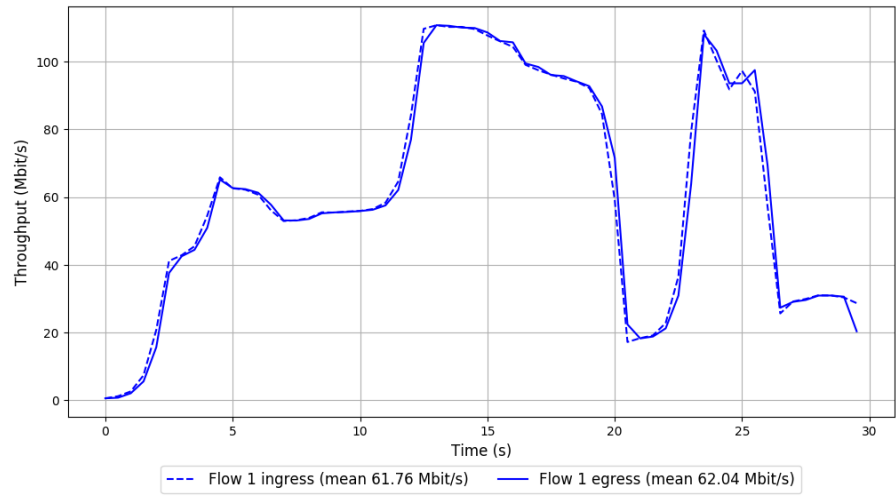
-- Flow 1:

Average throughput: 62.04 Mbit/s

95th percentile per-packet one-way delay: 136.578 ms

Loss rate: 0.45%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-03 16:42:09

End at: 2018-04-03 16:42:39

Below is generated by plot.py at 2018-04-03 21:53:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 136.151 ms

Loss rate: 0.85%

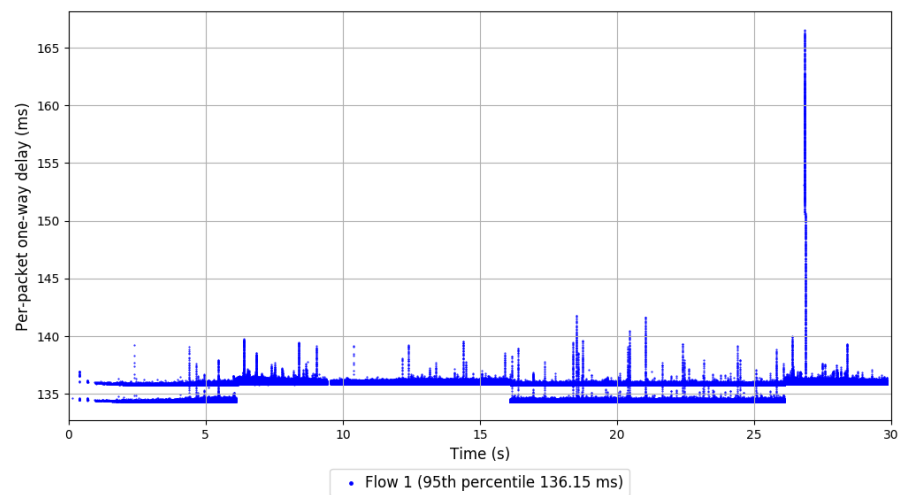
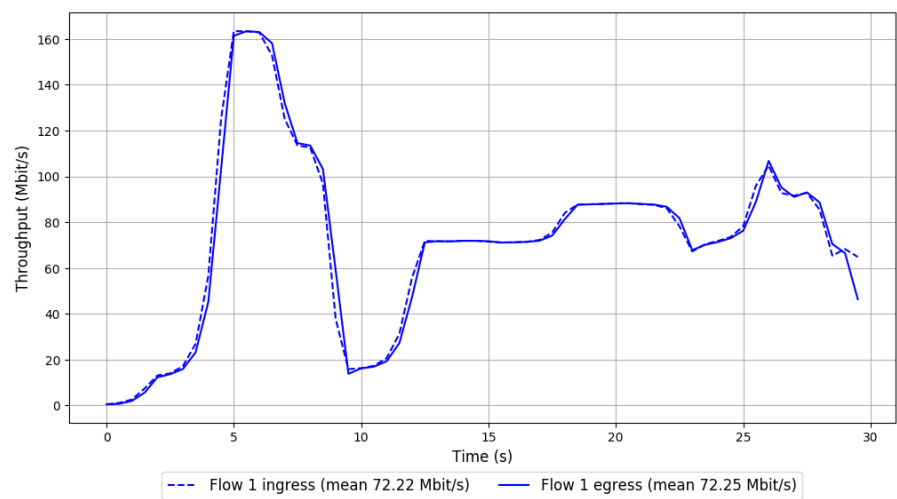
-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 136.151 ms

Loss rate: 0.85%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-03 16:58:01

End at: 2018-04-03 16:58:31

Below is generated by plot.py at 2018-04-03 21:53:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 136.050 ms

Loss rate: 0.71%

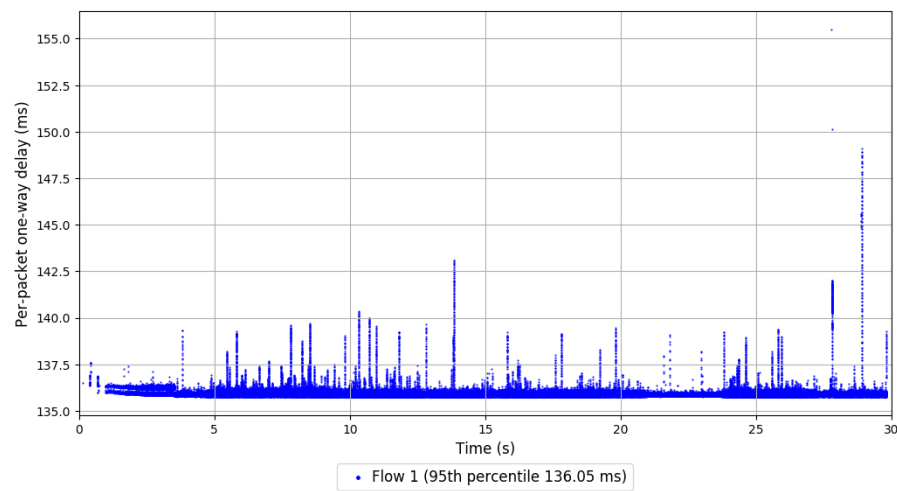
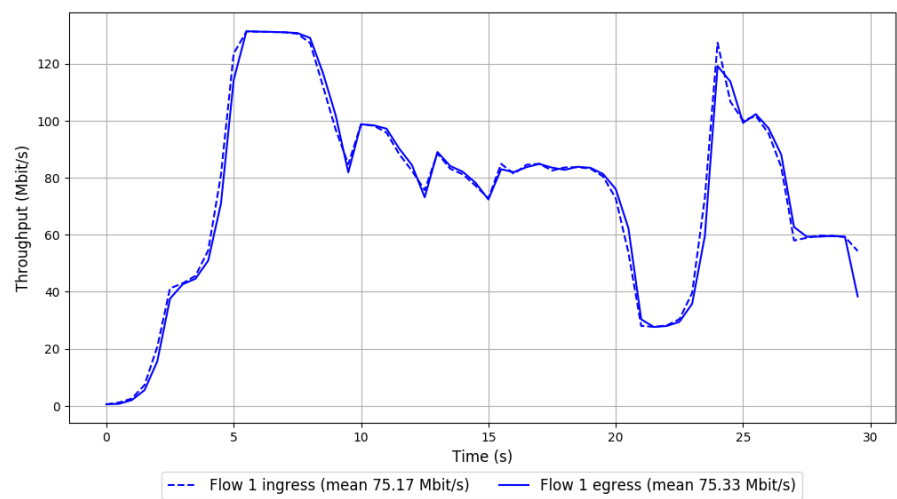
-- Flow 1:

Average throughput: 75.33 Mbit/s

95th percentile per-packet one-way delay: 136.050 ms

Loss rate: 0.71%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-03 17:13:53

End at: 2018-04-03 17:14:23

Below is generated by plot.py at 2018-04-03 21:53:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.31 Mbit/s

95th percentile per-packet one-way delay: 136.406 ms

Loss rate: 0.22%

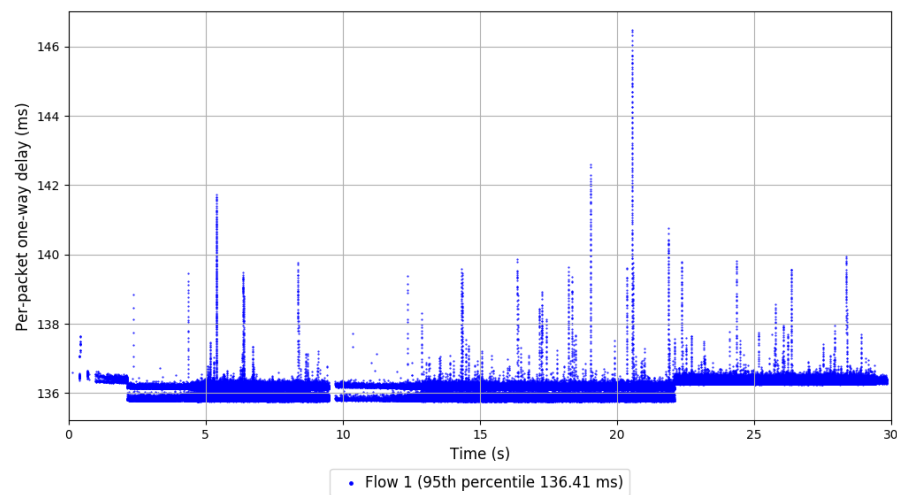
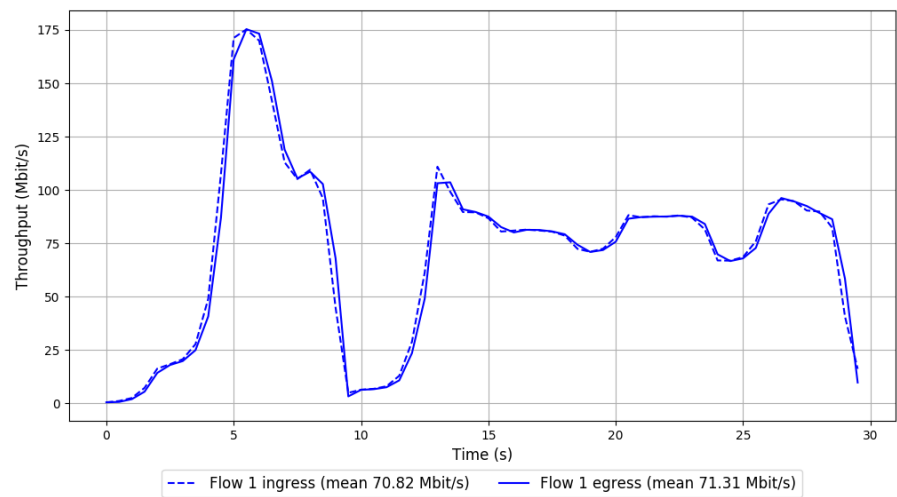
-- Flow 1:

Average throughput: 71.31 Mbit/s

95th percentile per-packet one-way delay: 136.406 ms

Loss rate: 0.22%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-03 17:29:43

End at: 2018-04-03 17:30:13

Below is generated by plot.py at 2018-04-03 21:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 136.445 ms

Loss rate: 0.62%

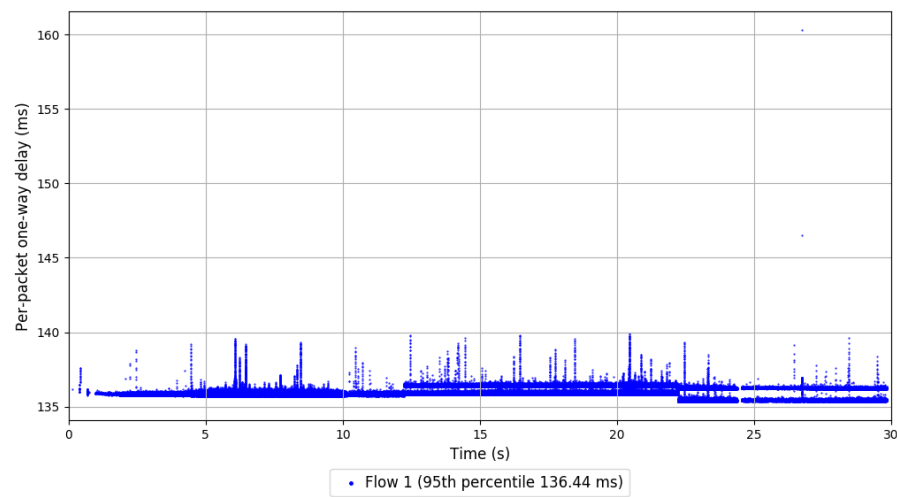
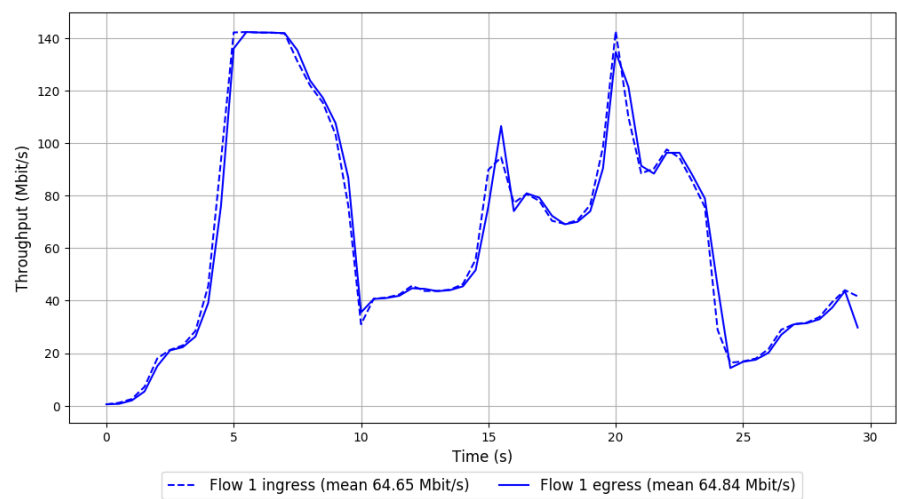
-- Flow 1:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 136.445 ms

Loss rate: 0.62%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-03 17:45:20

End at: 2018-04-03 17:45:50

Below is generated by plot.py at 2018-04-03 21:53:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 136.505 ms

Loss rate: 0.32%

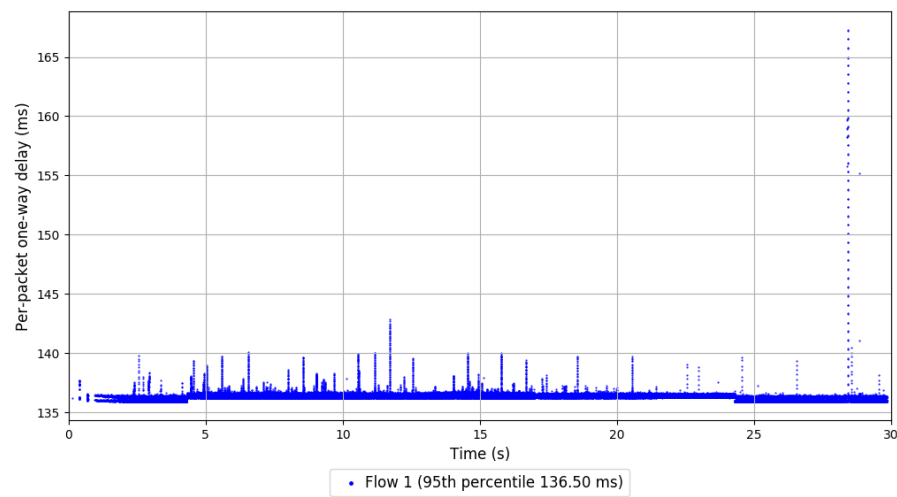
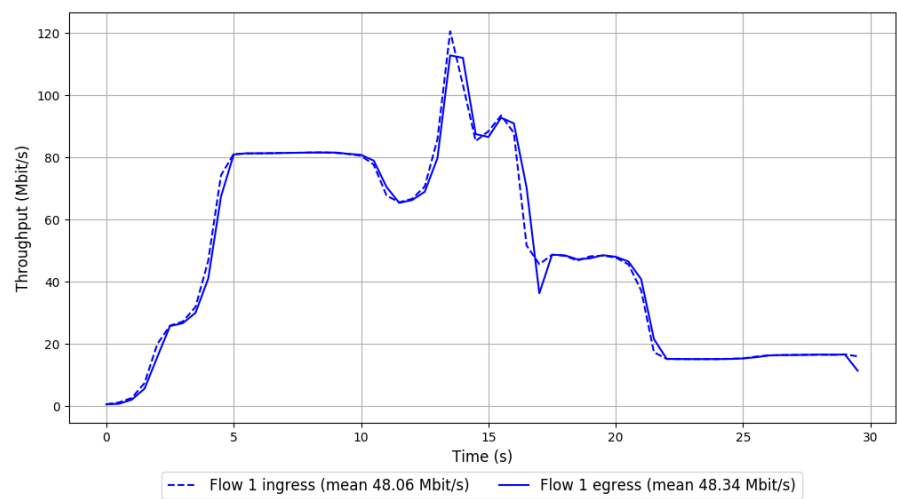
-- Flow 1:

Average throughput: 48.34 Mbit/s

95th percentile per-packet one-way delay: 136.505 ms

Loss rate: 0.32%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-03 18:00:47

End at: 2018-04-03 18:01:17

Below is generated by plot.py at 2018-04-03 21:54:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 136.168 ms

Loss rate: 0.71%

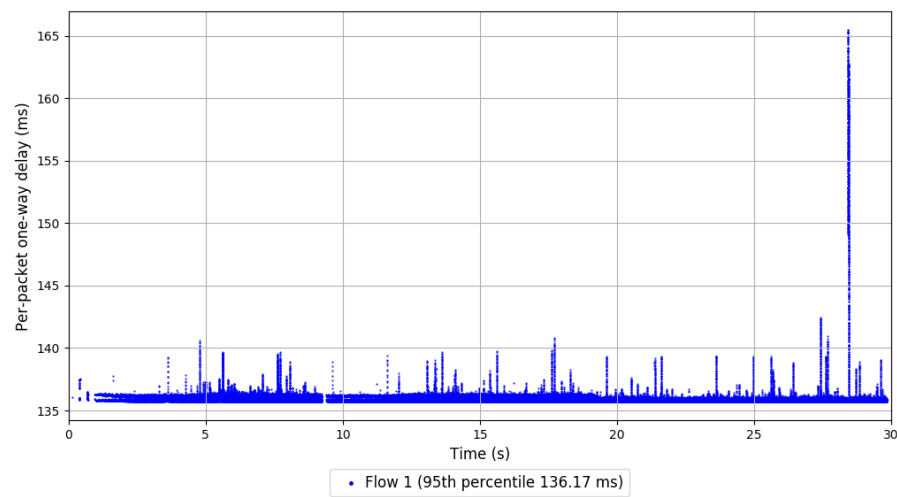
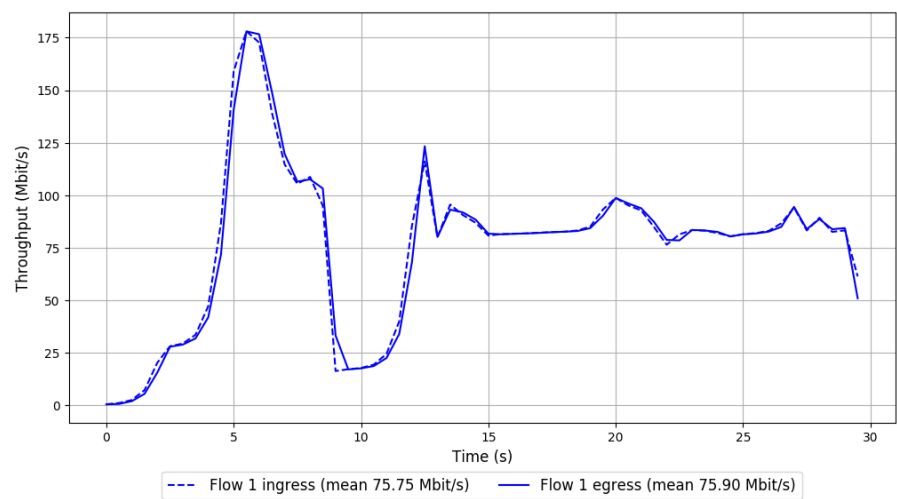
-- Flow 1:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 136.168 ms

Loss rate: 0.71%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-03 18:16:39

End at: 2018-04-03 18:17:09

Below is generated by plot.py at 2018-04-03 21:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.12 Mbit/s

95th percentile per-packet one-way delay: 136.177 ms

Loss rate: 0.98%

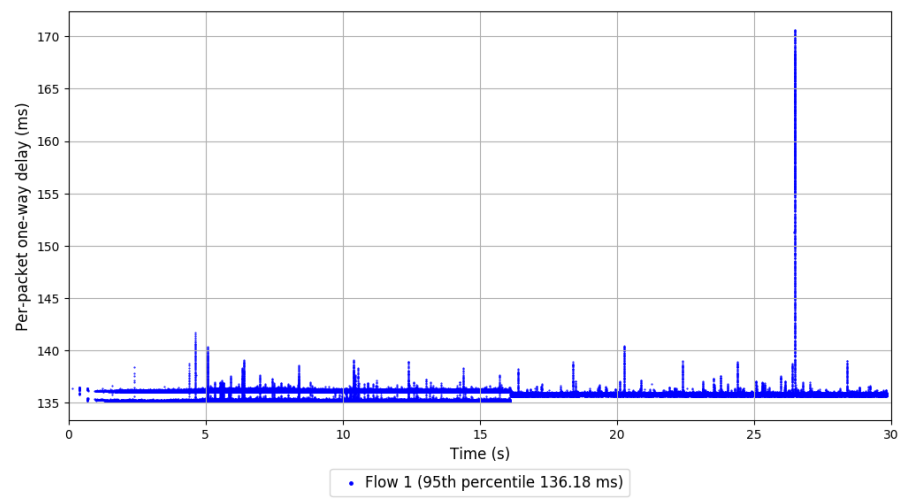
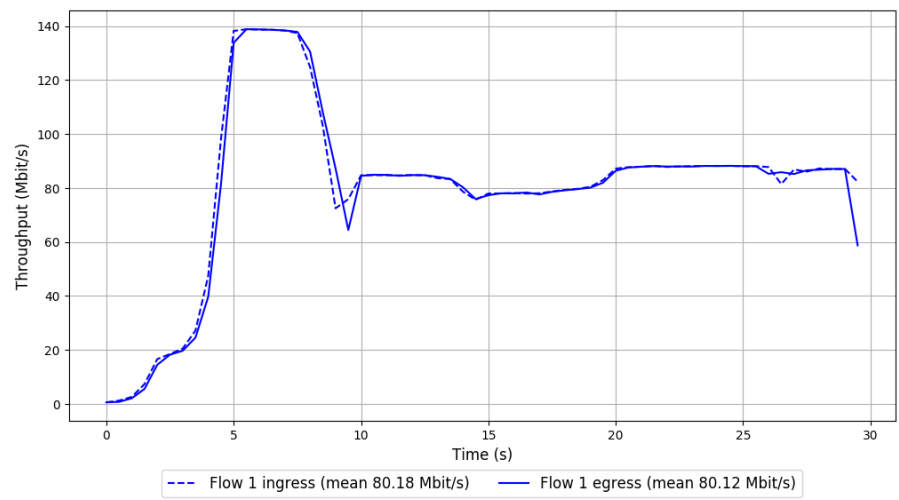
-- Flow 1:

Average throughput: 80.12 Mbit/s

95th percentile per-packet one-way delay: 136.177 ms

Loss rate: 0.98%

Run 10: Report of Copa — Data Link

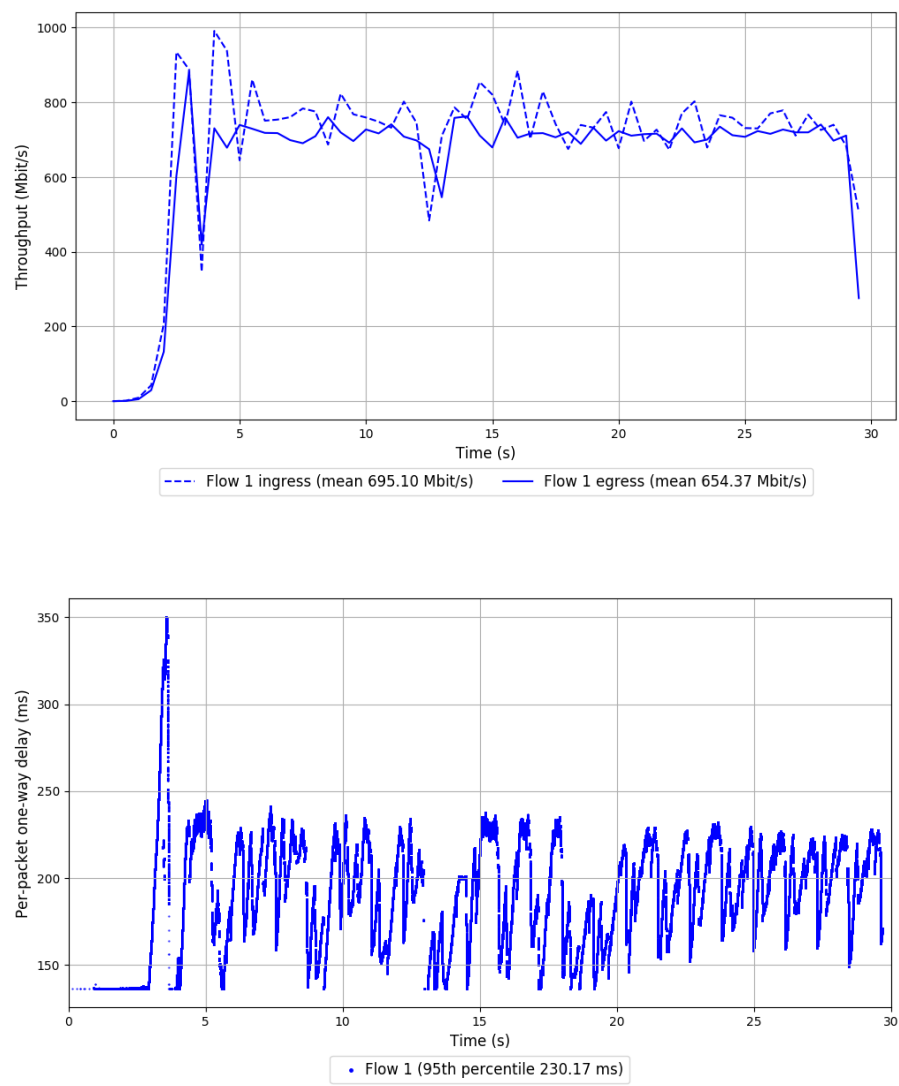


```
Run 1: Statistics of FillP

Start at: 2018-04-03 16:08:06
End at: 2018-04-03 16:08:36

# Below is generated by plot.py at 2018-04-03 22:07:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 654.37 Mbit/s
95th percentile per-packet one-way delay: 230.174 ms
Loss rate: 6.71%
-- Flow 1:
Average throughput: 654.37 Mbit/s
95th percentile per-packet one-way delay: 230.174 ms
Loss rate: 6.71%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-03 16:23:43

End at: 2018-04-03 16:24:13

Below is generated by plot.py at 2018-04-03 22:07:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 642.54 Mbit/s

95th percentile per-packet one-way delay: 229.817 ms

Loss rate: 6.80%

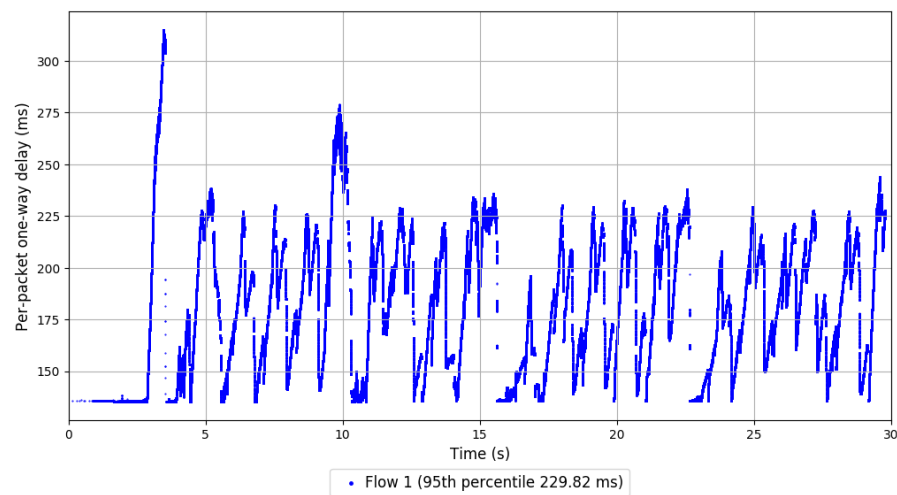
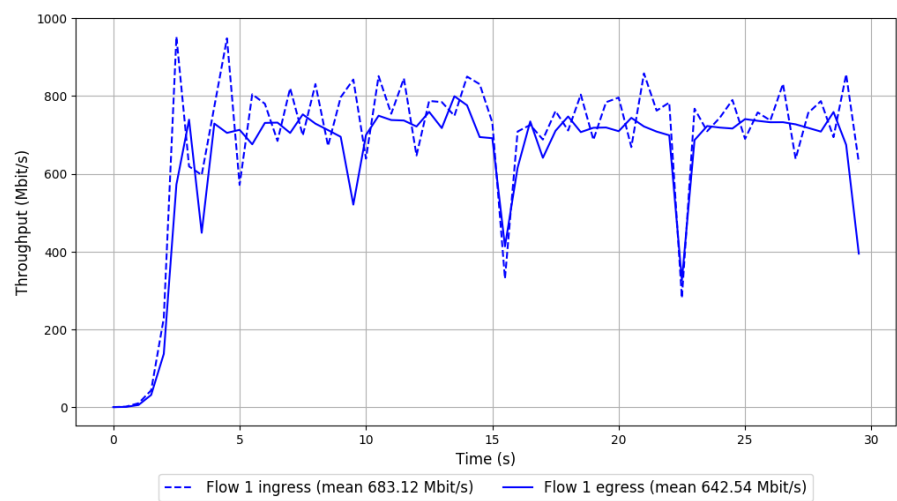
-- Flow 1:

Average throughput: 642.54 Mbit/s

95th percentile per-packet one-way delay: 229.817 ms

Loss rate: 6.80%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-03 16:39:31

End at: 2018-04-03 16:40:01

Below is generated by plot.py at 2018-04-03 22:07:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 648.33 Mbit/s

95th percentile per-packet one-way delay: 229.634 ms

Loss rate: 6.43%

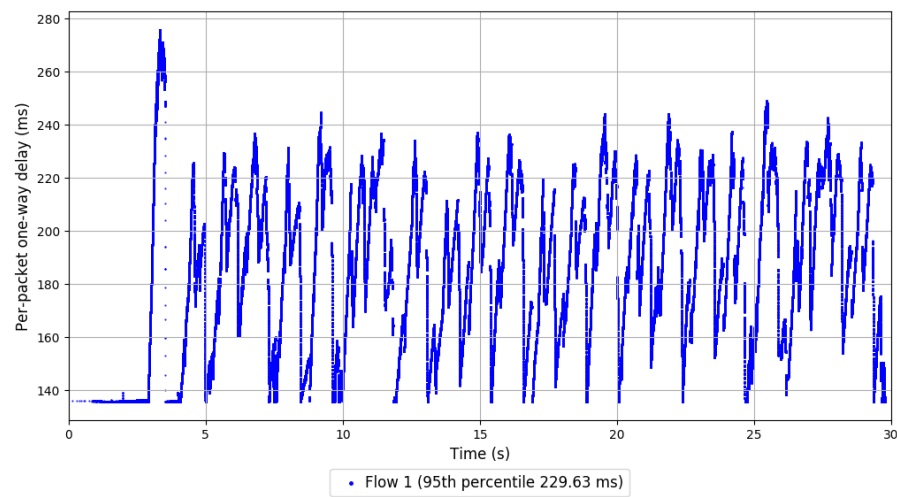
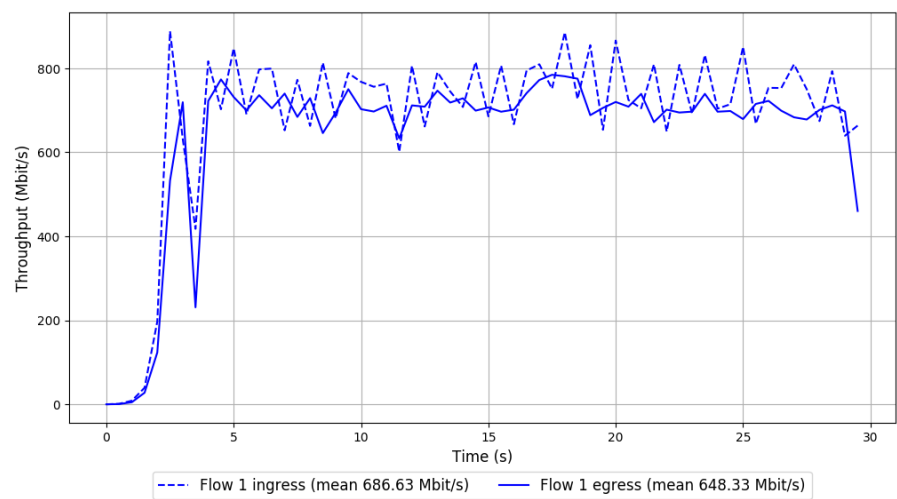
-- Flow 1:

Average throughput: 648.33 Mbit/s

95th percentile per-packet one-way delay: 229.634 ms

Loss rate: 6.43%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-03 16:55:23

End at: 2018-04-03 16:55:53

Below is generated by plot.py at 2018-04-03 22:07:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 649.70 Mbit/s

95th percentile per-packet one-way delay: 230.812 ms

Loss rate: 7.53%

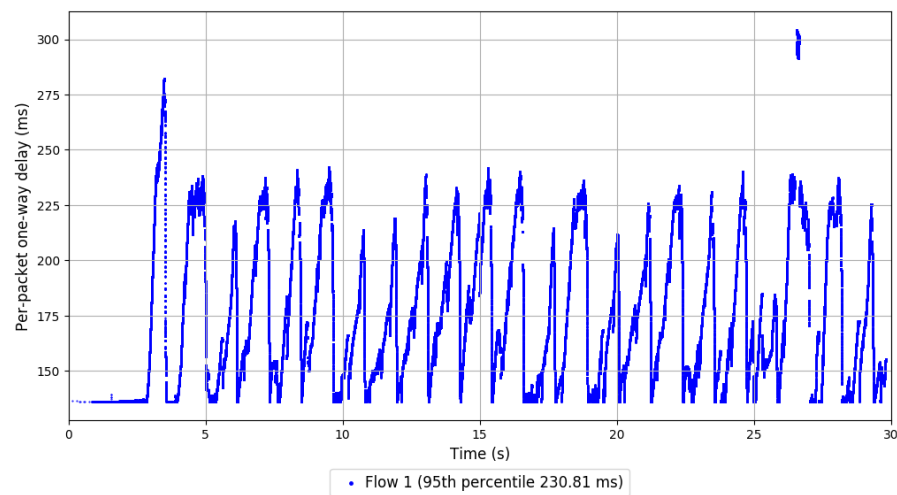
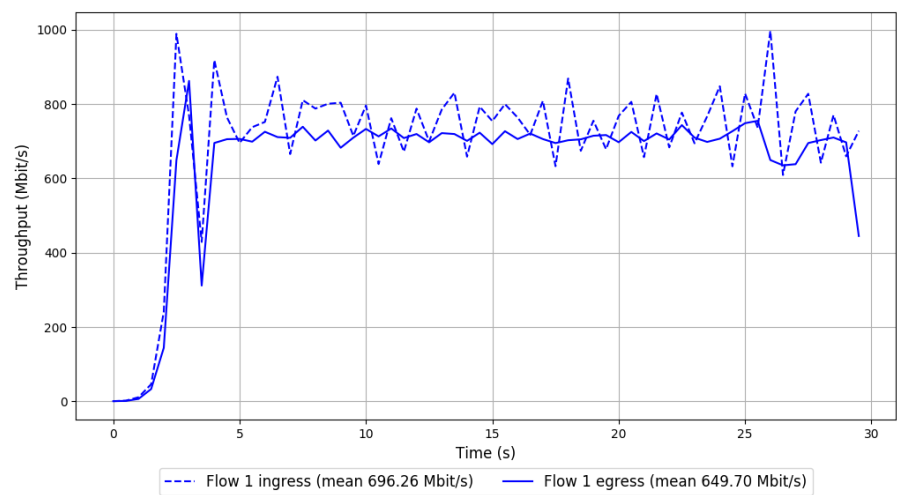
-- Flow 1:

Average throughput: 649.70 Mbit/s

95th percentile per-packet one-way delay: 230.812 ms

Loss rate: 7.53%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-03 17:11:15

End at: 2018-04-03 17:11:45

Below is generated by plot.py at 2018-04-03 22:07:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 649.12 Mbit/s

95th percentile per-packet one-way delay: 228.192 ms

Loss rate: 6.85%

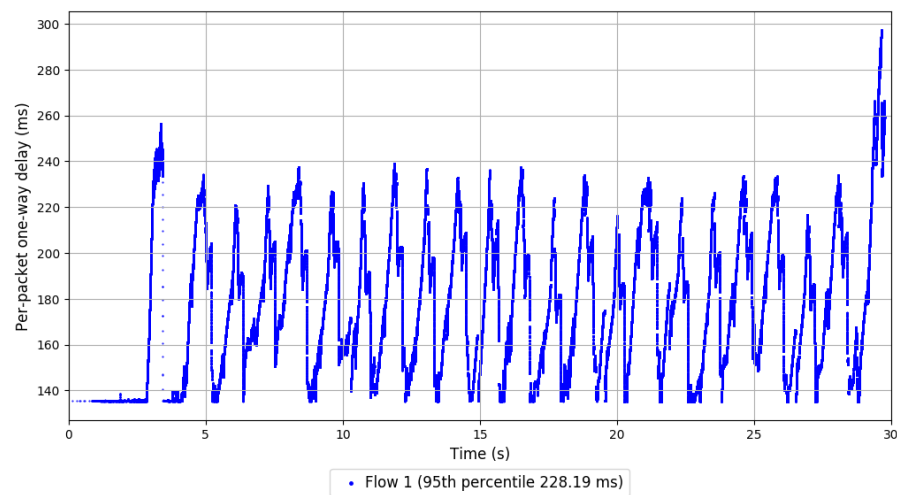
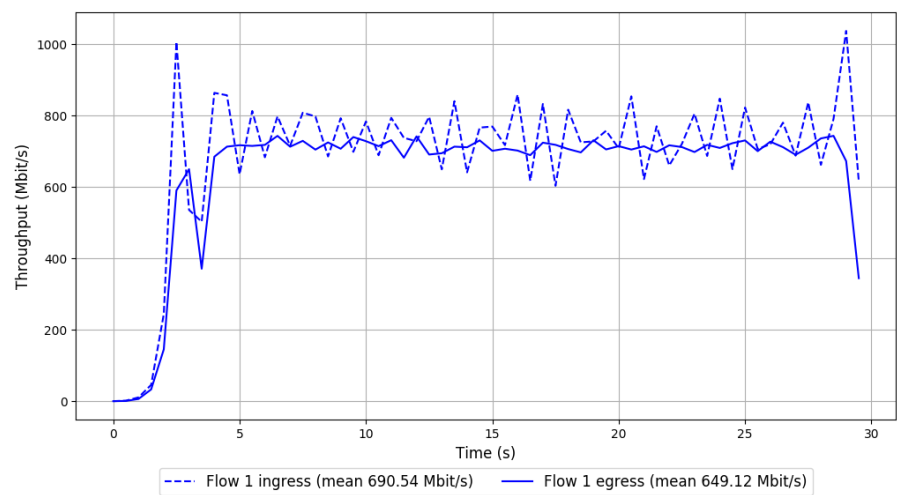
-- Flow 1:

Average throughput: 649.12 Mbit/s

95th percentile per-packet one-way delay: 228.192 ms

Loss rate: 6.85%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

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

End at: 2018-04-03 17:27:34

Below is generated by plot.py at 2018-04-03 22:08:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 650.15 Mbit/s

95th percentile per-packet one-way delay: 229.472 ms

Loss rate: 7.50%

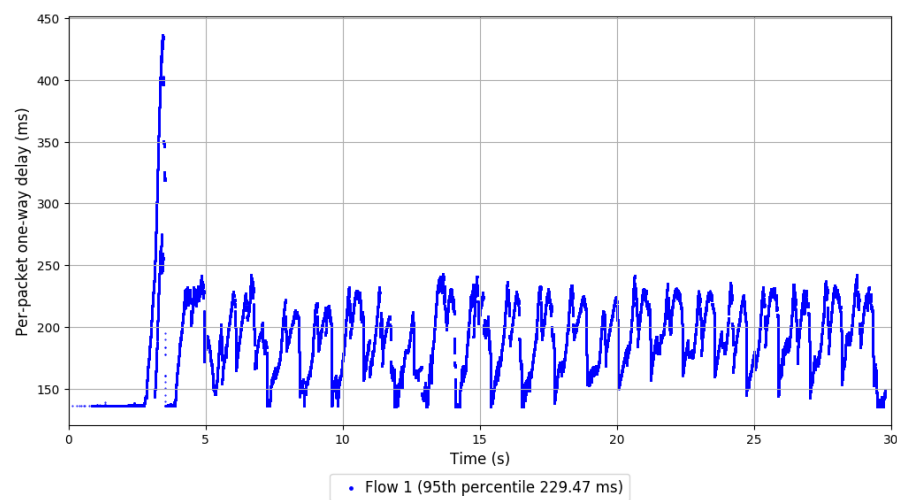
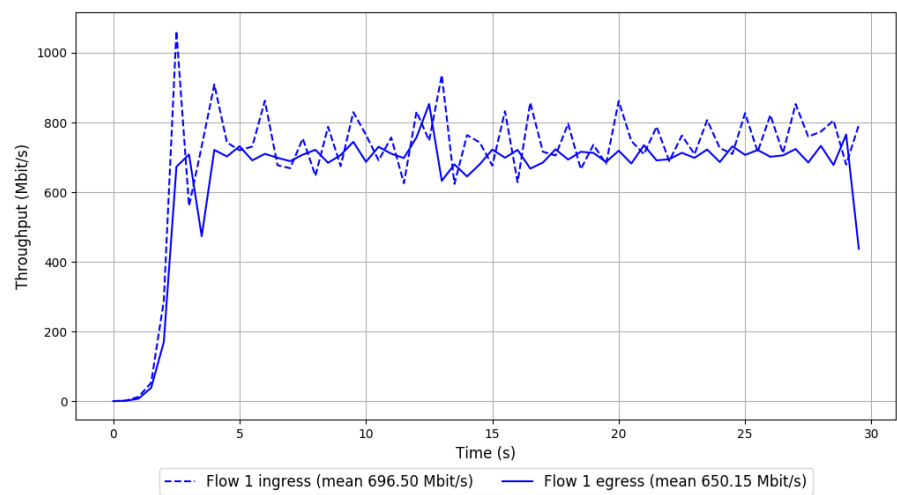
-- Flow 1:

Average throughput: 650.15 Mbit/s

95th percentile per-packet one-way delay: 229.472 ms

Loss rate: 7.50%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-03 17:42:43

End at: 2018-04-03 17:43:13

Below is generated by plot.py at 2018-04-03 22:08:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 647.09 Mbit/s

95th percentile per-packet one-way delay: 228.662 ms

Loss rate: 5.77%

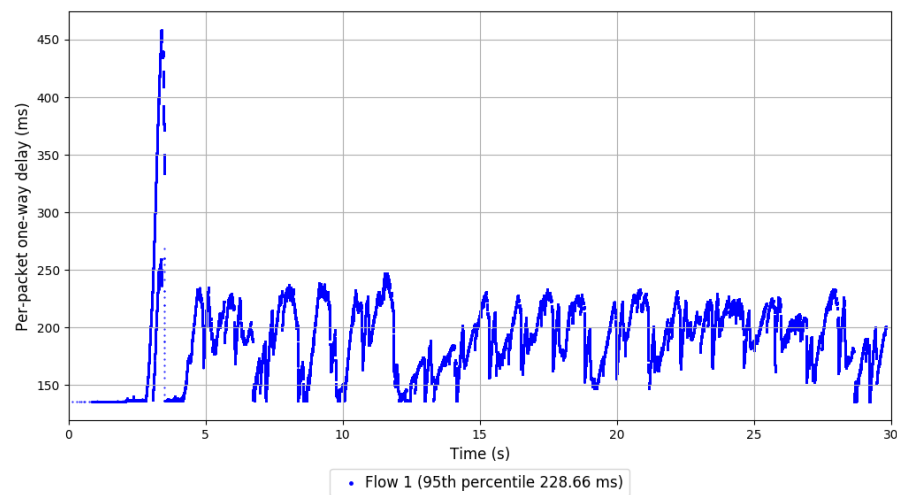
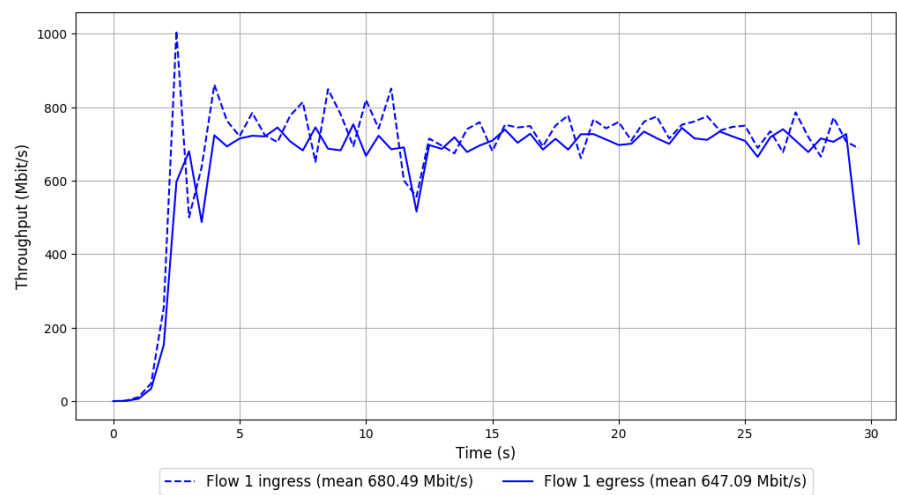
-- Flow 1:

Average throughput: 647.09 Mbit/s

95th percentile per-packet one-way delay: 228.662 ms

Loss rate: 5.77%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-03 17:58:10

End at: 2018-04-03 17:58:40

Below is generated by plot.py at 2018-04-03 22:08:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 626.70 Mbit/s

95th percentile per-packet one-way delay: 237.784 ms

Loss rate: 9.42%

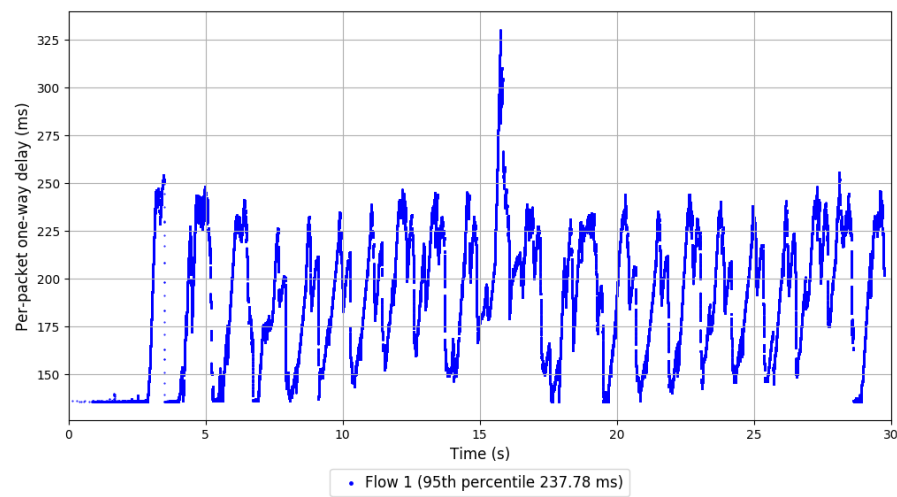
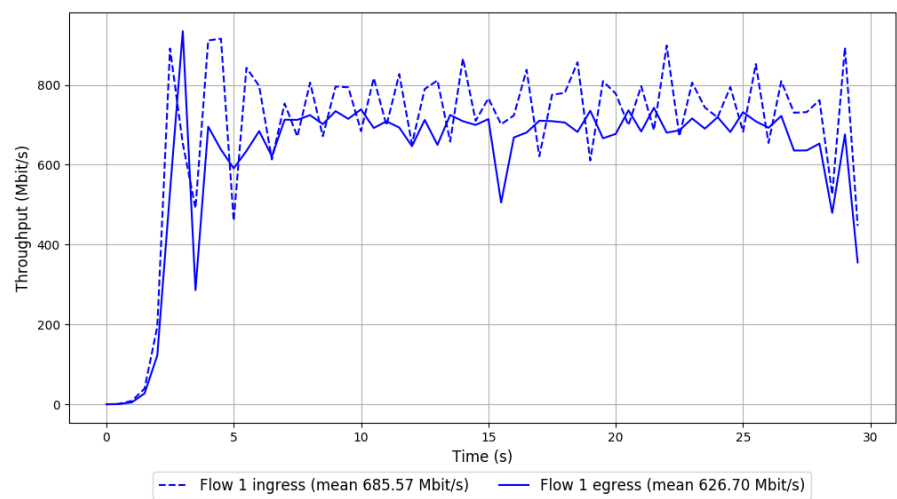
-- Flow 1:

Average throughput: 626.70 Mbit/s

95th percentile per-packet one-way delay: 237.784 ms

Loss rate: 9.42%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-03 18:14:00

End at: 2018-04-03 18:14:30

Below is generated by plot.py at 2018-04-03 22:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 644.71 Mbit/s

95th percentile per-packet one-way delay: 231.852 ms

Loss rate: 8.47%

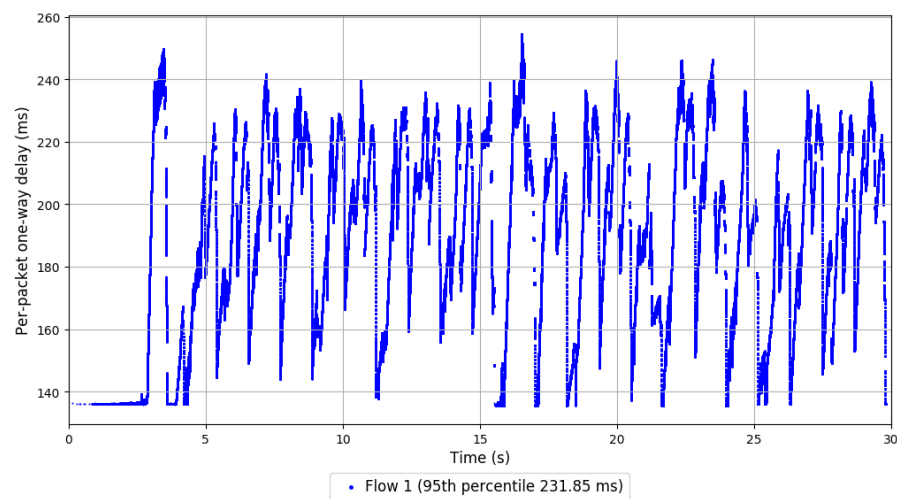
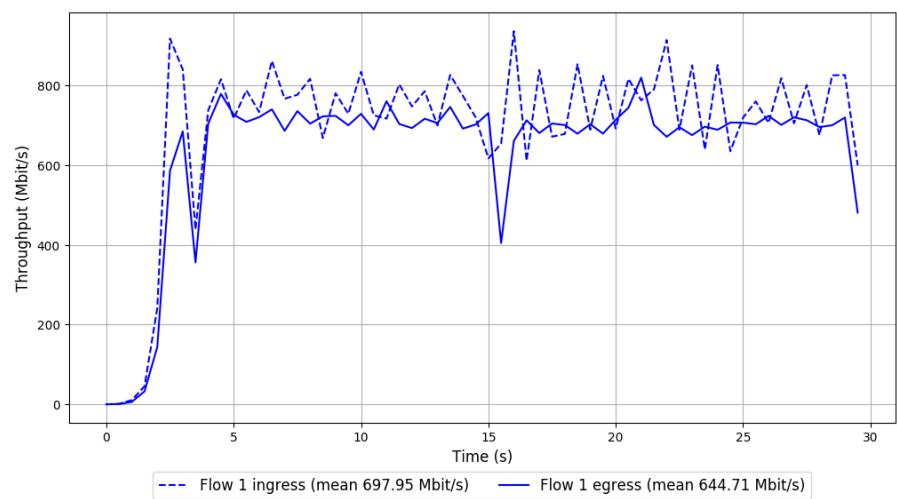
-- Flow 1:

Average throughput: 644.71 Mbit/s

95th percentile per-packet one-way delay: 231.852 ms

Loss rate: 8.47%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-03 18:29:27

End at: 2018-04-03 18:29:57

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 667.29 Mbit/s

95th percentile per-packet one-way delay: 231.317 ms

Loss rate: 8.46%

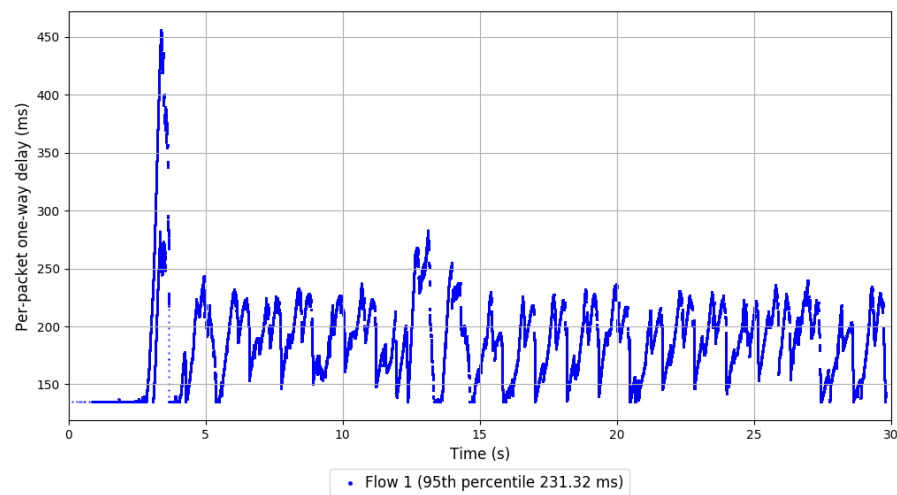
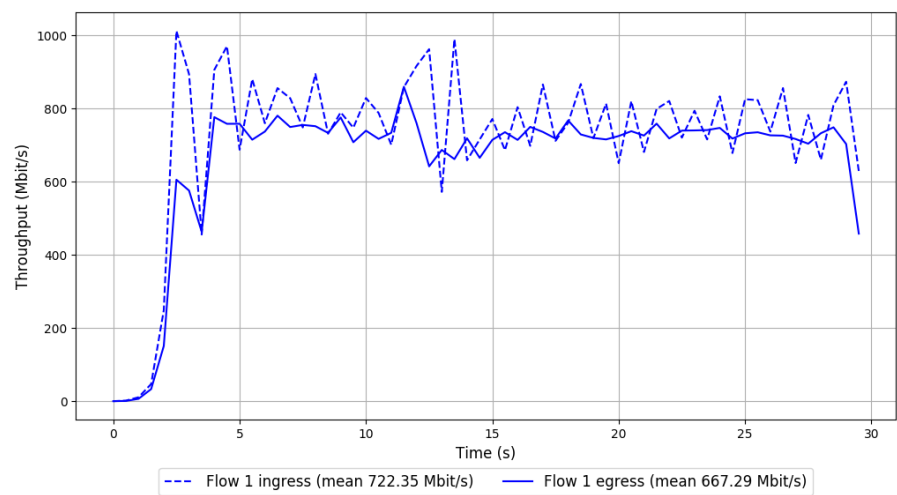
-- Flow 1:

Average throughput: 667.29 Mbit/s

95th percentile per-packet one-way delay: 231.317 ms

Loss rate: 8.46%

Run 10: Report of FillP — Data Link

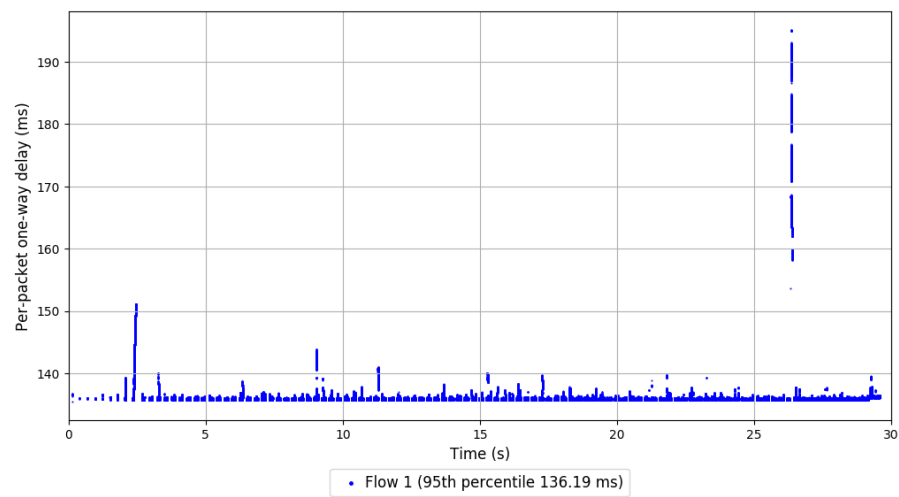
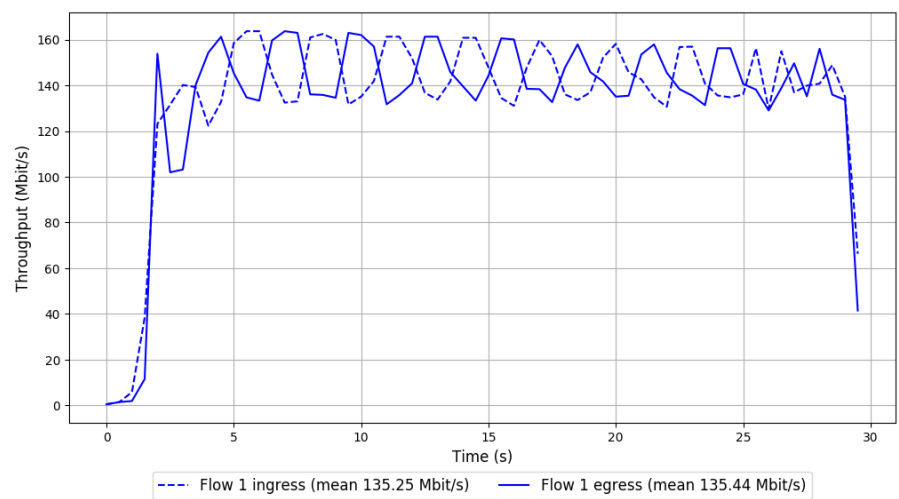


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-03 16:00:38
End at: 2018-04-03 16:01:08

# Below is generated by plot.py at 2018-04-03 22:21:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.44 Mbit/s
95th percentile per-packet one-way delay: 136.186 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 135.44 Mbit/s
95th percentile per-packet one-way delay: 136.186 ms
Loss rate: 0.82%
```

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

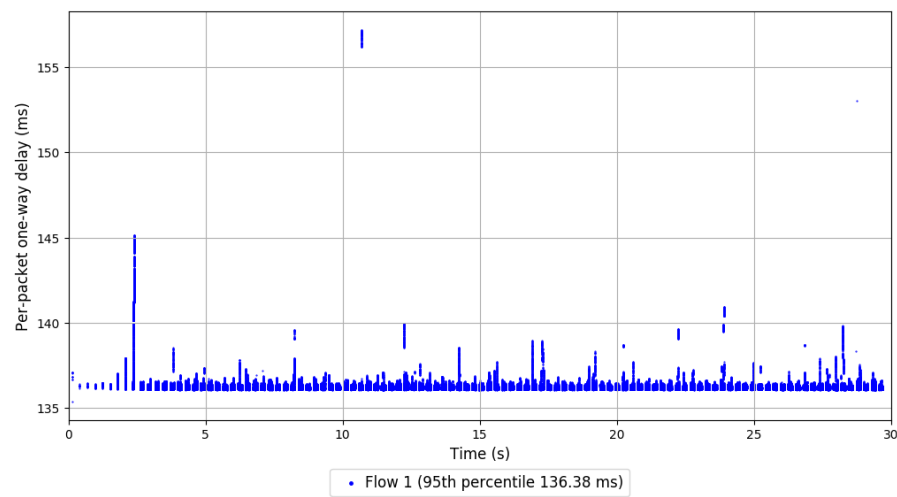
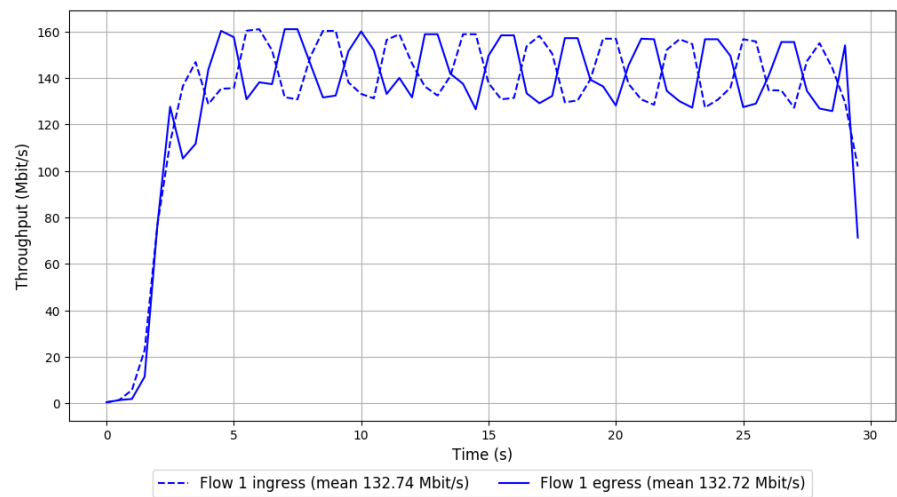


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-03 16:16:13
End at: 2018-04-03 16:16:43

# Below is generated by plot.py at 2018-04-03 22:21:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.72 Mbit/s
95th percentile per-packet one-way delay: 136.375 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 132.72 Mbit/s
95th percentile per-packet one-way delay: 136.375 ms
Loss rate: 0.92%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-03 16:31:56

End at: 2018-04-03 16:32:26

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.83 Mbit/s

95th percentile per-packet one-way delay: 136.127 ms

Loss rate: 0.86%

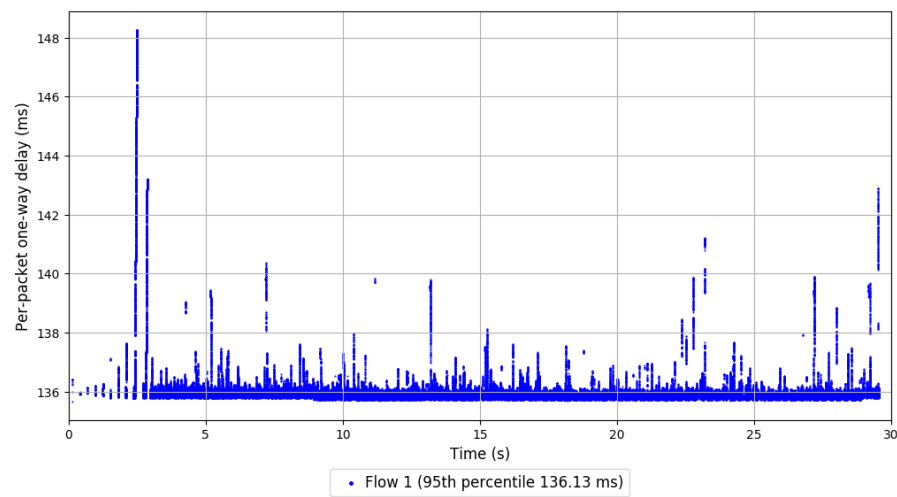
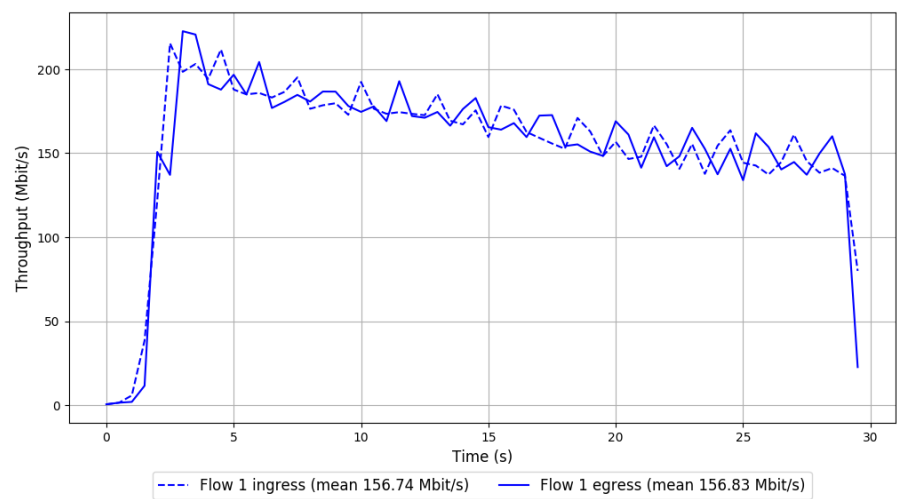
-- Flow 1:

Average throughput: 156.83 Mbit/s

95th percentile per-packet one-way delay: 136.127 ms

Loss rate: 0.86%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-03 16:47:47

End at: 2018-04-03 16:48:17

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.73 Mbit/s

95th percentile per-packet one-way delay: 136.113 ms

Loss rate: 0.90%

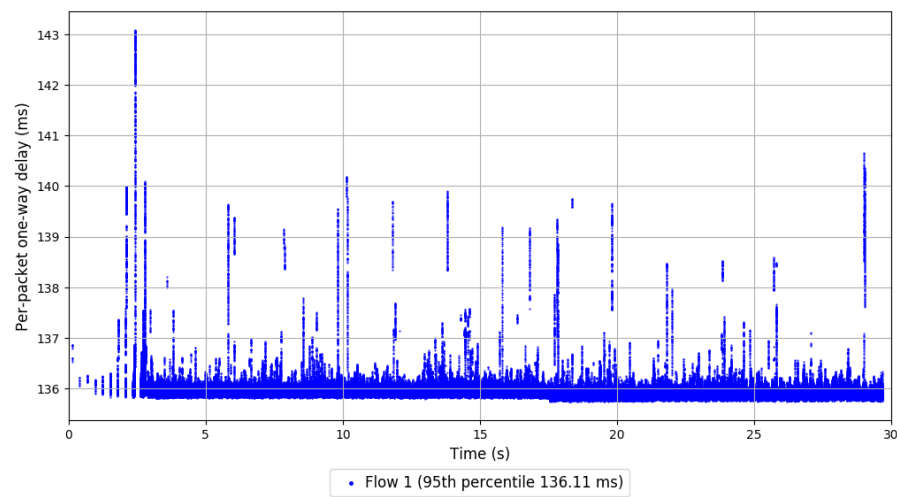
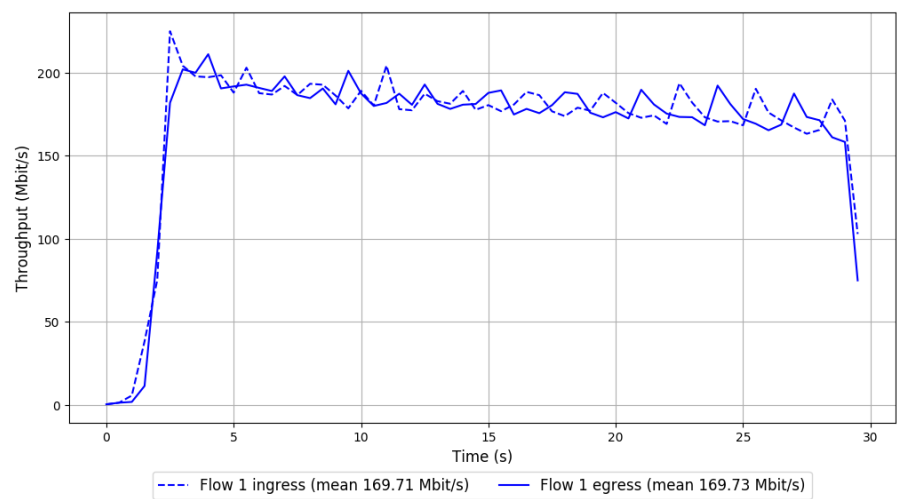
-- Flow 1:

Average throughput: 169.73 Mbit/s

95th percentile per-packet one-way delay: 136.113 ms

Loss rate: 0.90%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-03 17:03:46

End at: 2018-04-03 17:04:16

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.92 Mbit/s

95th percentile per-packet one-way delay: 136.632 ms

Loss rate: 0.78%

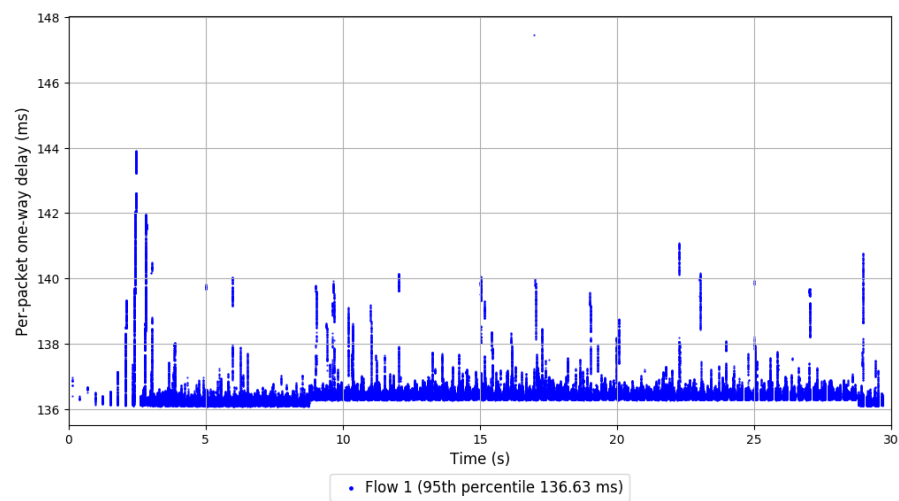
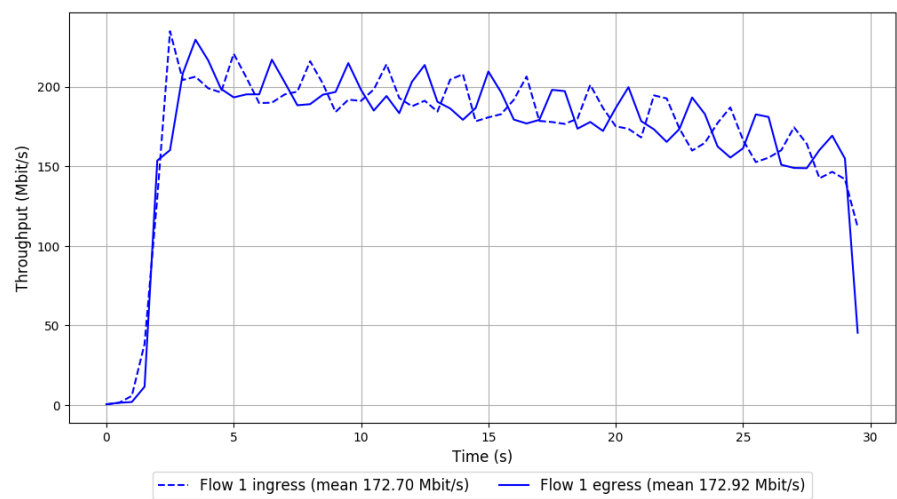
-- Flow 1:

Average throughput: 172.92 Mbit/s

95th percentile per-packet one-way delay: 136.632 ms

Loss rate: 0.78%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-03 17:19:36

End at: 2018-04-03 17:20:06

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.75 Mbit/s

95th percentile per-packet one-way delay: 136.636 ms

Loss rate: 0.98%

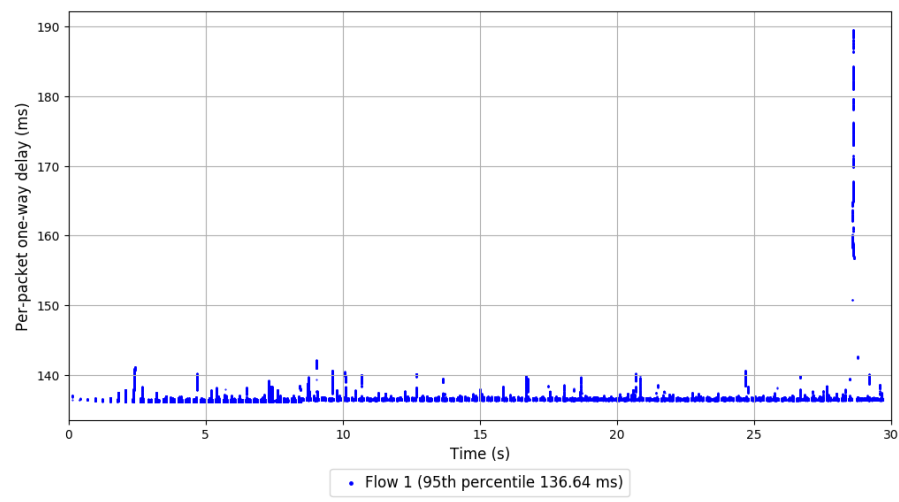
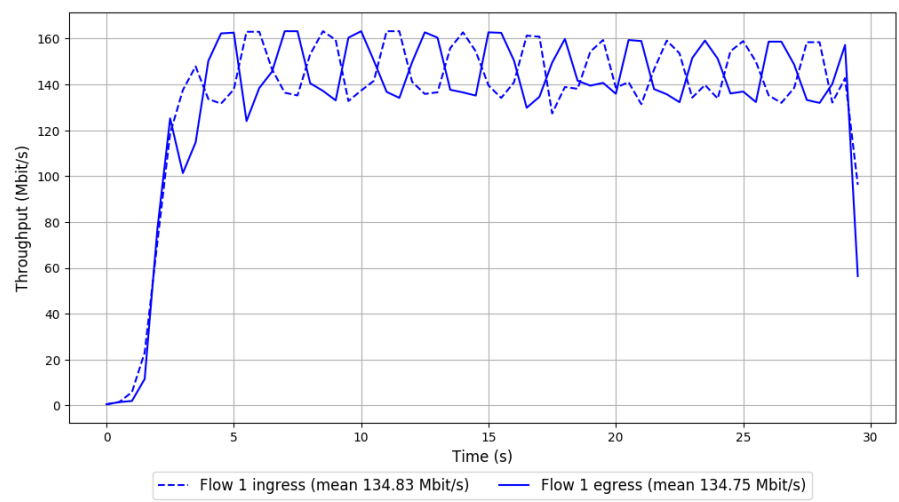
-- Flow 1:

Average throughput: 134.75 Mbit/s

95th percentile per-packet one-way delay: 136.636 ms

Loss rate: 0.98%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-03 17:35:16

End at: 2018-04-03 17:35:46

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.11 Mbit/s

95th percentile per-packet one-way delay: 136.596 ms

Loss rate: 0.96%

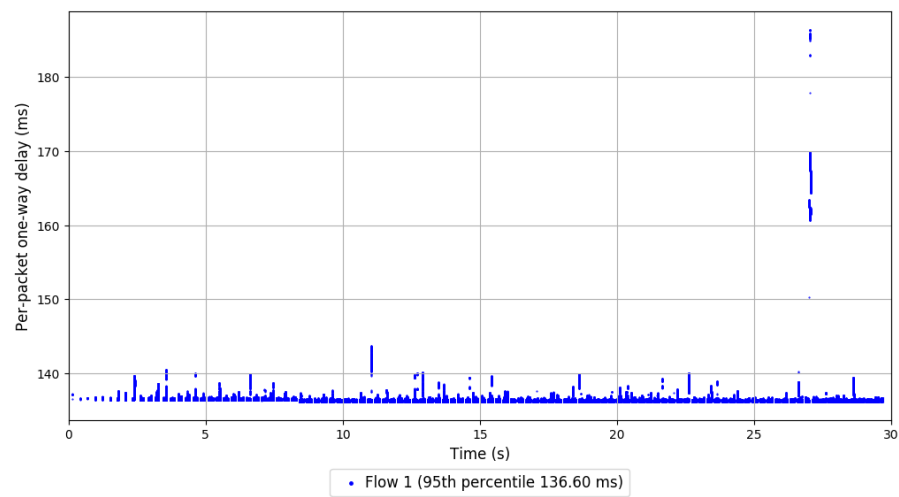
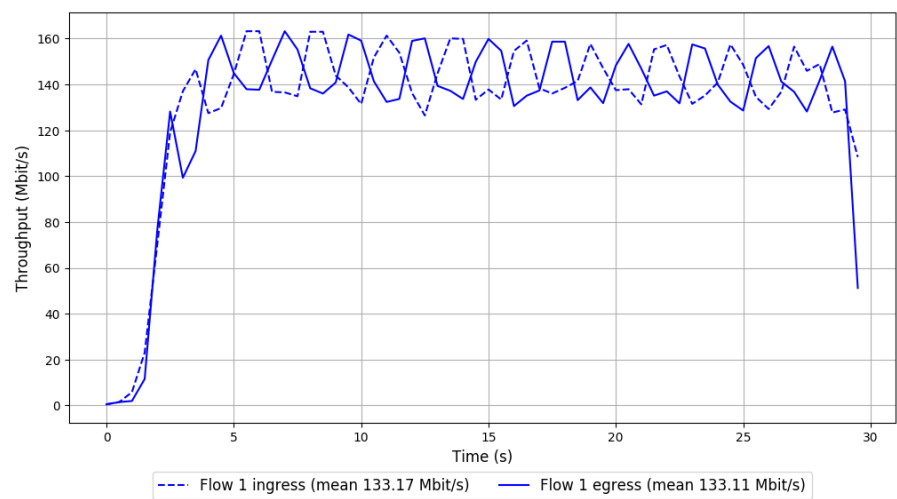
-- Flow 1:

Average throughput: 133.11 Mbit/s

95th percentile per-packet one-way delay: 136.596 ms

Loss rate: 0.96%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-03 17:50:43

End at: 2018-04-03 17:51:13

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.25 Mbit/s

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

Loss rate: 0.90%

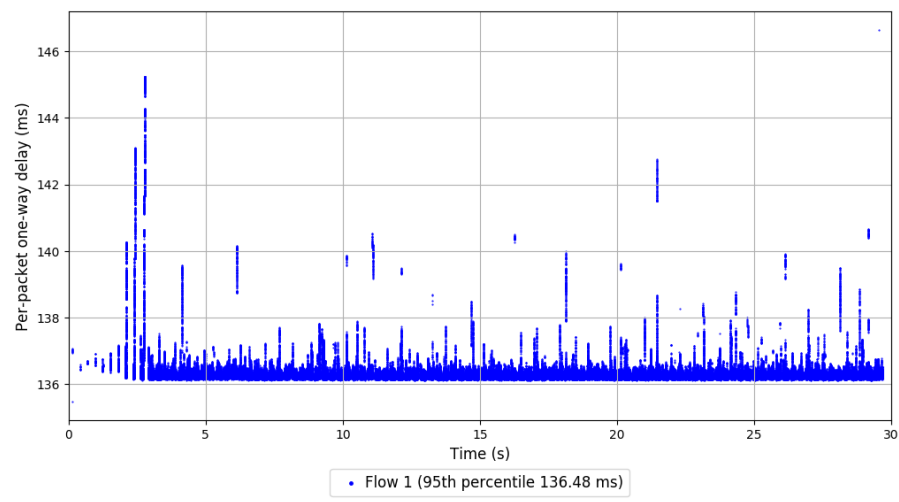
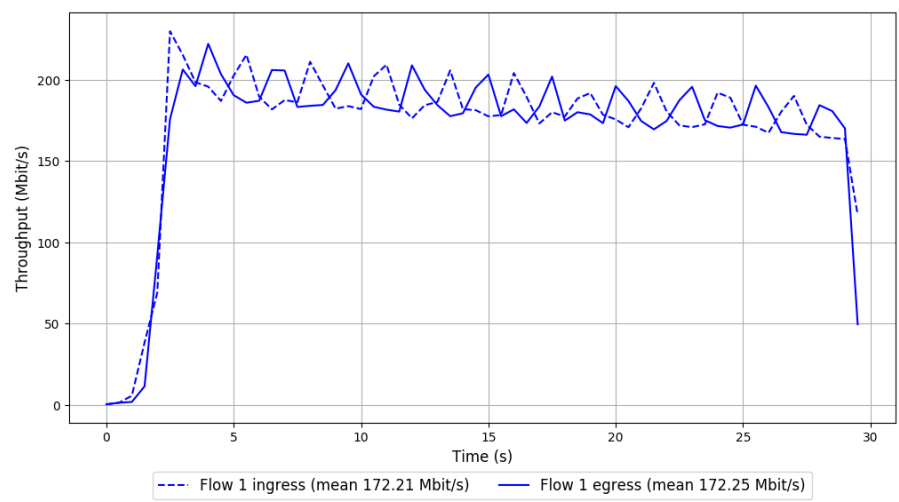
-- Flow 1:

Average throughput: 172.25 Mbit/s

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

Loss rate: 0.90%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-03 18:06:30

End at: 2018-04-03 18:07:00

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.51 Mbit/s

95th percentile per-packet one-way delay: 136.019 ms

Loss rate: 0.92%

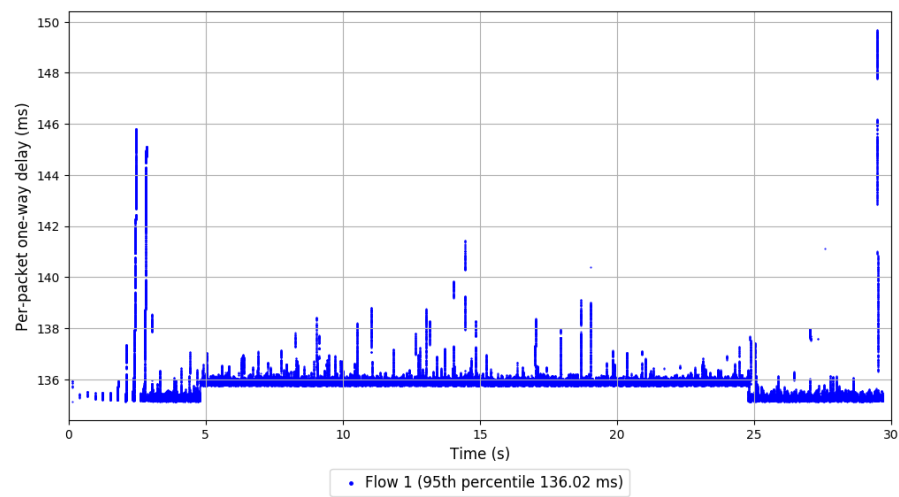
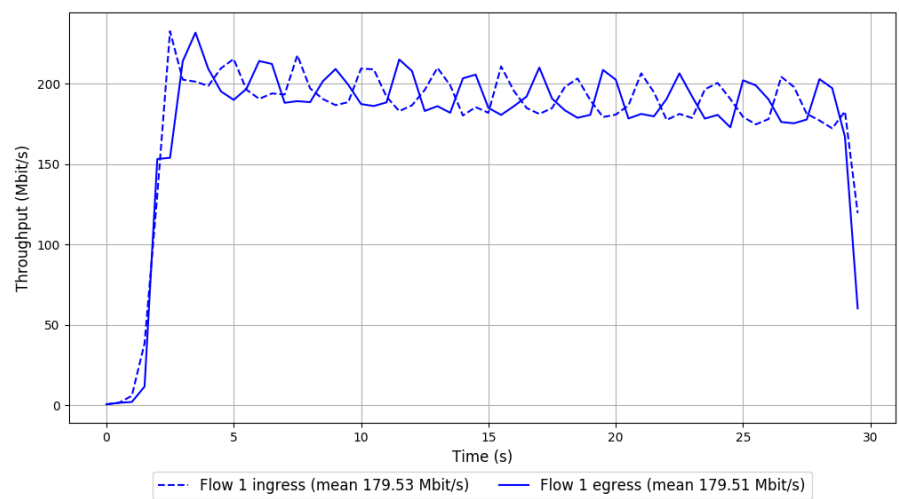
-- Flow 1:

Average throughput: 179.51 Mbit/s

95th percentile per-packet one-way delay: 136.019 ms

Loss rate: 0.92%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-03 18:22:05

End at: 2018-04-03 18:22:35

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.10 Mbit/s

95th percentile per-packet one-way delay: 135.932 ms

Loss rate: 0.87%

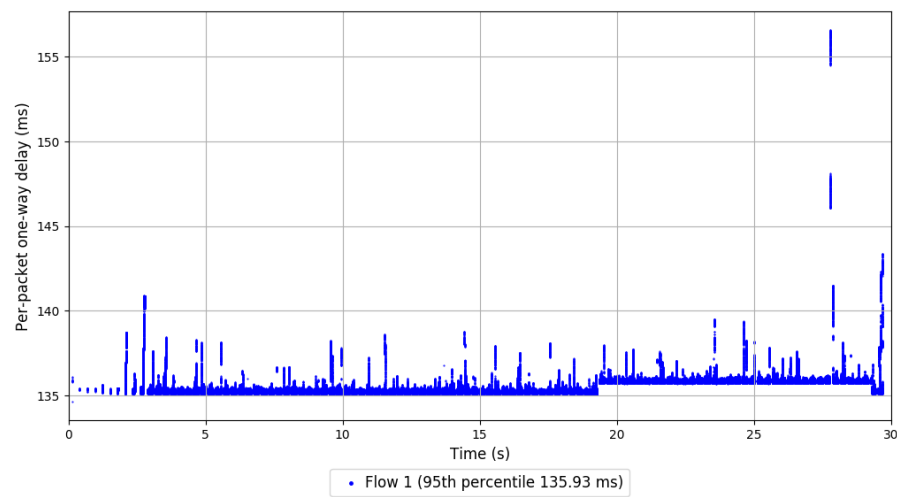
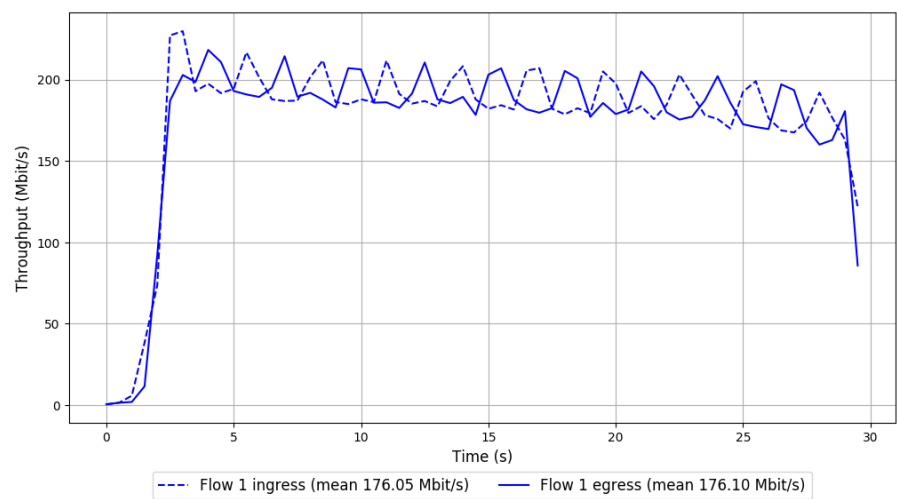
-- Flow 1:

Average throughput: 176.10 Mbit/s

95th percentile per-packet one-way delay: 135.932 ms

Loss rate: 0.87%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-03 16:05:35

End at: 2018-04-03 16:06:05

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.44 Mbit/s

95th percentile per-packet one-way delay: 138.112 ms

Loss rate: 0.98%

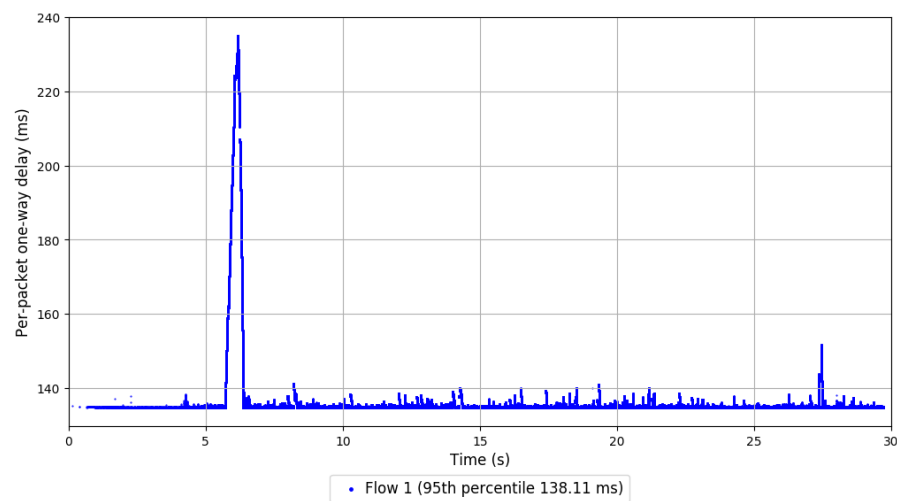
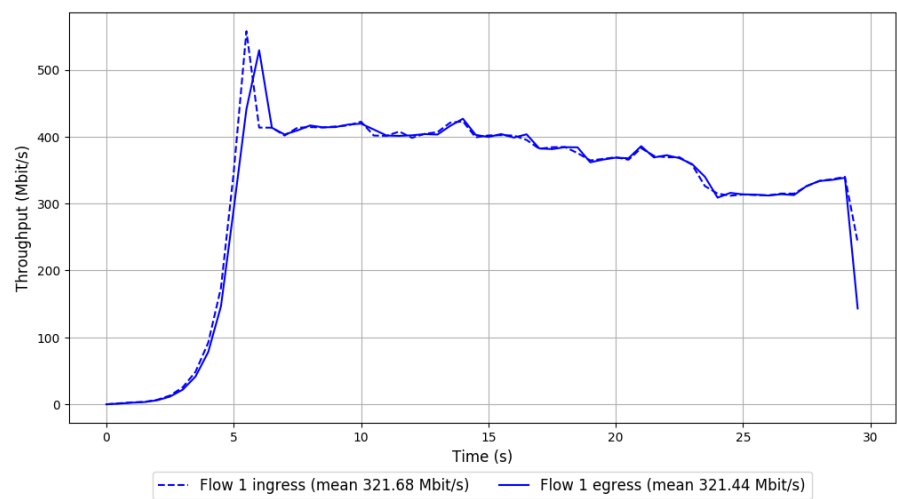
-- Flow 1:

Average throughput: 321.44 Mbit/s

95th percentile per-packet one-way delay: 138.112 ms

Loss rate: 0.98%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-03 16:21:14

End at: 2018-04-03 16:21:44

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.04 Mbit/s

95th percentile per-packet one-way delay: 186.980 ms

Loss rate: 1.68%

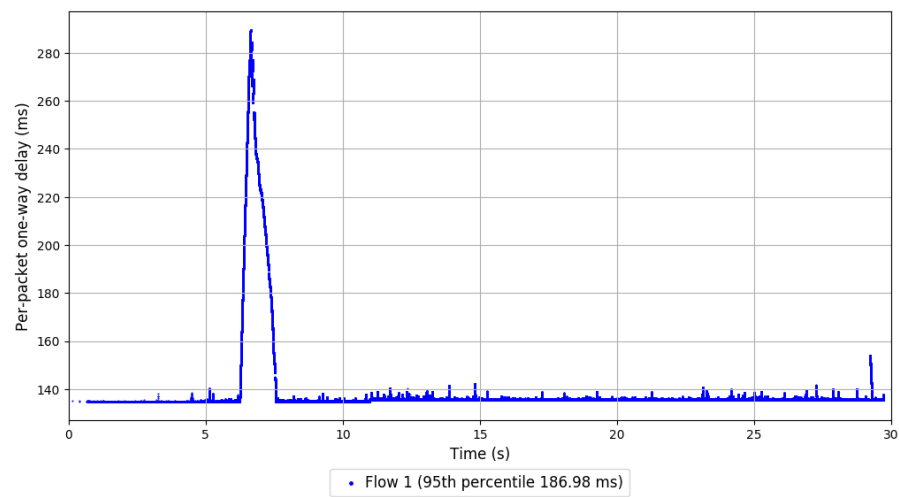
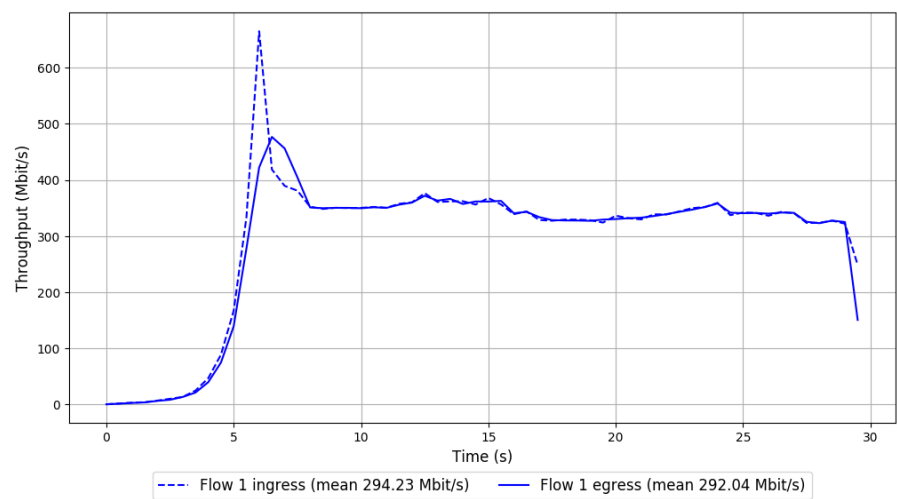
-- Flow 1:

Average throughput: 292.04 Mbit/s

95th percentile per-packet one-way delay: 186.980 ms

Loss rate: 1.68%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-03 16:37:00

End at: 2018-04-03 16:37:30

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.64 Mbit/s

95th percentile per-packet one-way delay: 138.432 ms

Loss rate: 0.90%

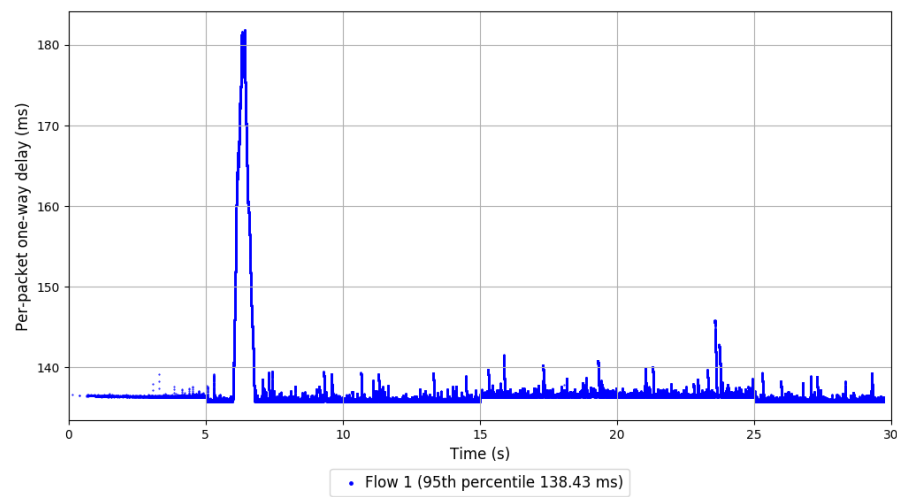
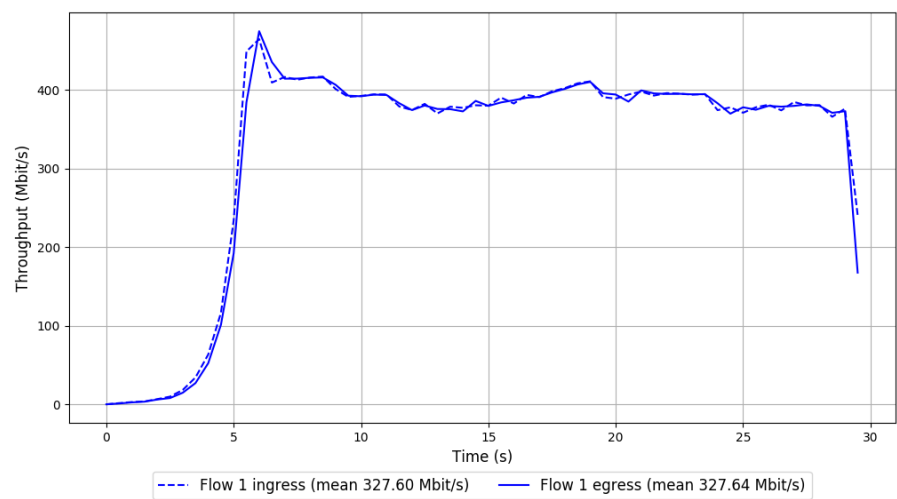
-- Flow 1:

Average throughput: 327.64 Mbit/s

95th percentile per-packet one-way delay: 138.432 ms

Loss rate: 0.90%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-03 16:52:54

End at: 2018-04-03 16:53:24

Below is generated by plot.py at 2018-04-03 22:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.91 Mbit/s

95th percentile per-packet one-way delay: 169.748 ms

Loss rate: 1.41%

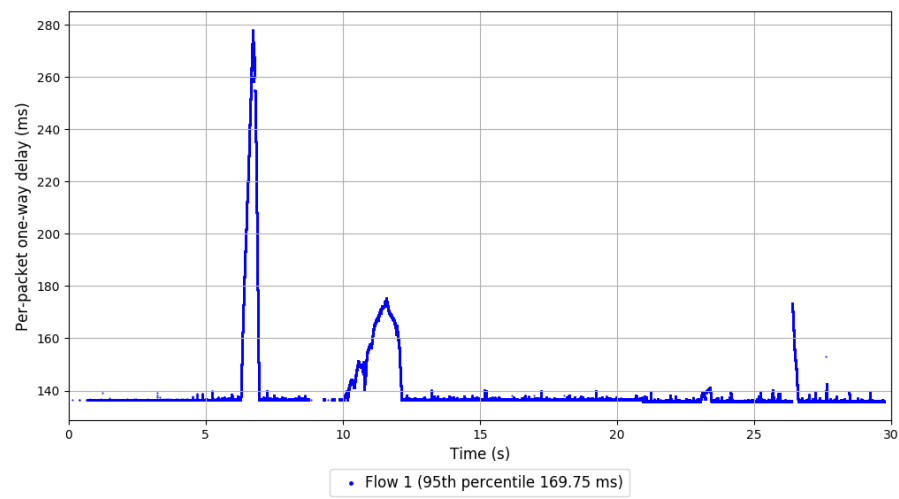
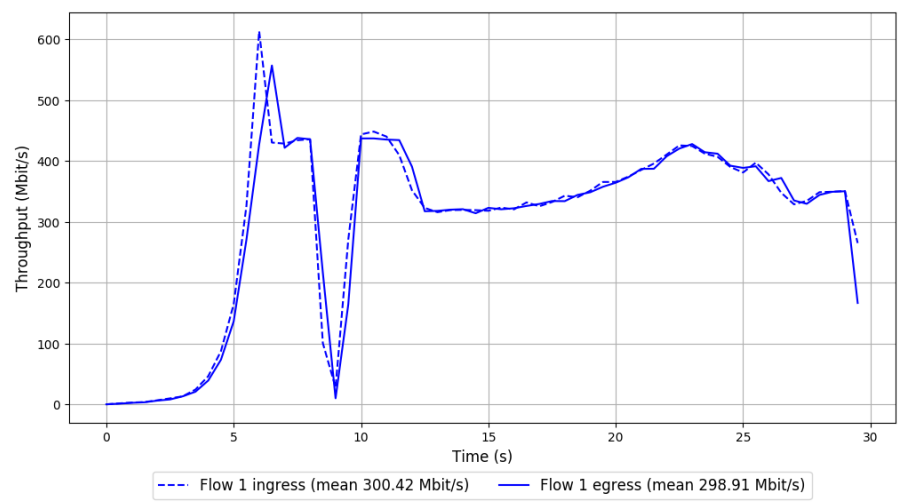
-- Flow 1:

Average throughput: 298.91 Mbit/s

95th percentile per-packet one-way delay: 169.748 ms

Loss rate: 1.41%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-03 17:08:42

End at: 2018-04-03 17:09:12

Below is generated by plot.py at 2018-04-03 22:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.88 Mbit/s

95th percentile per-packet one-way delay: 273.172 ms

Loss rate: 3.17%

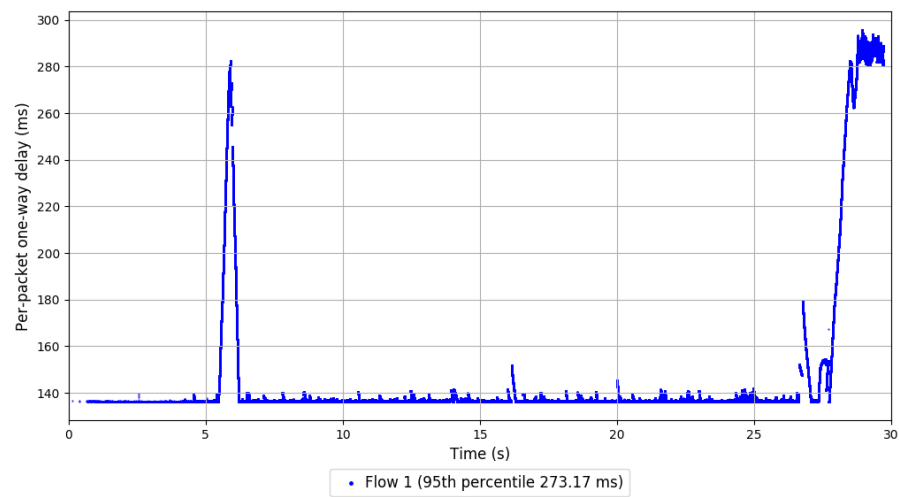
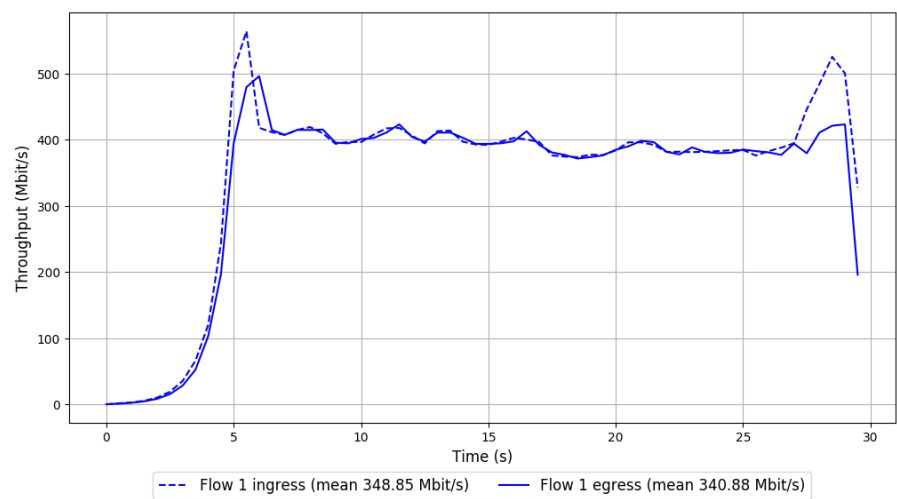
-- Flow 1:

Average throughput: 340.88 Mbit/s

95th percentile per-packet one-way delay: 273.172 ms

Loss rate: 3.17%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-03 17:24:36

End at: 2018-04-03 17:25:06

Below is generated by plot.py at 2018-04-03 22:22:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.28 Mbit/s

95th percentile per-packet one-way delay: 163.772 ms

Loss rate: 1.39%

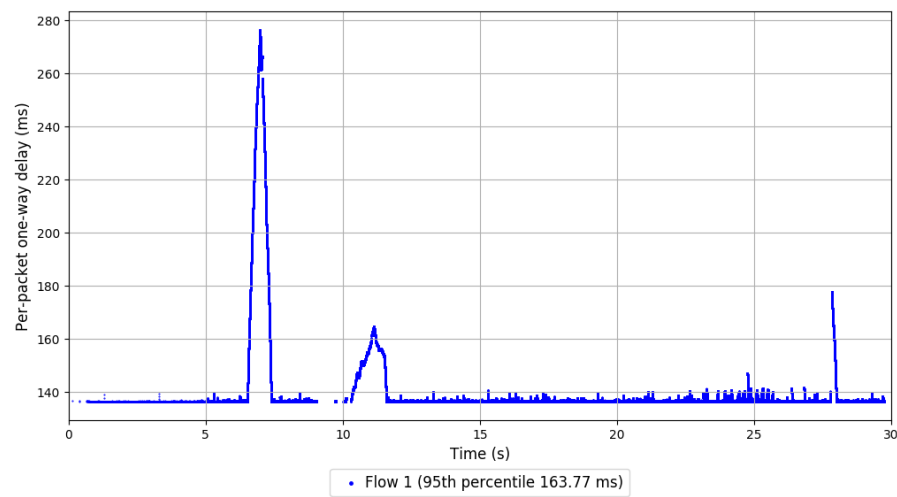
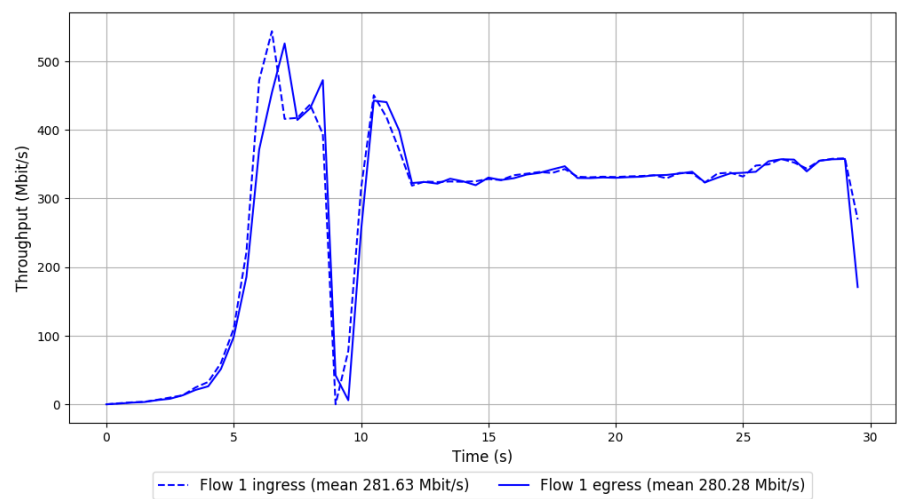
-- Flow 1:

Average throughput: 280.28 Mbit/s

95th percentile per-packet one-way delay: 163.772 ms

Loss rate: 1.39%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-03 17:40:16

End at: 2018-04-03 17:40:46

Below is generated by plot.py at 2018-04-03 22:24:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.25 Mbit/s

95th percentile per-packet one-way delay: 142.906 ms

Loss rate: 2.35%

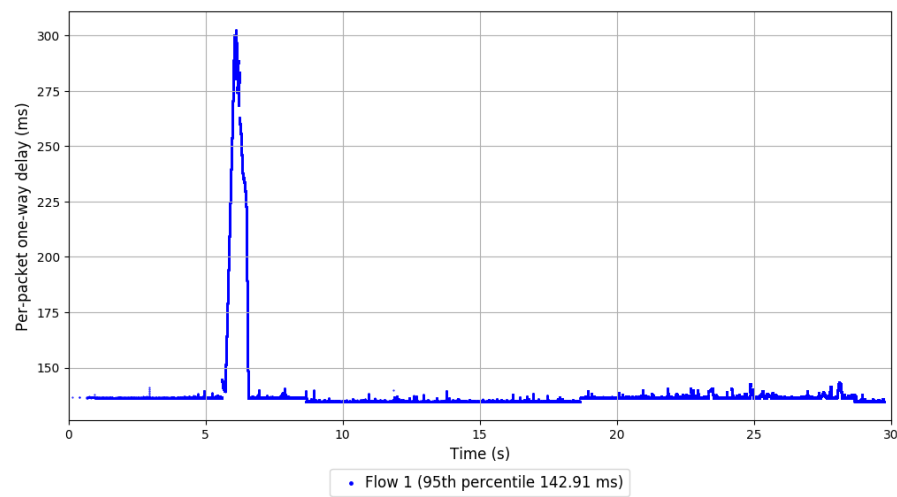
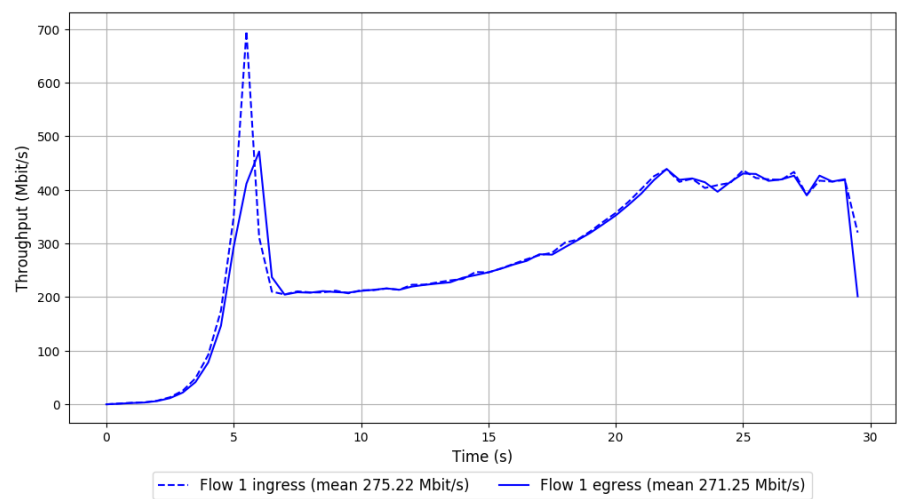
-- Flow 1:

Average throughput: 271.25 Mbit/s

95th percentile per-packet one-way delay: 142.906 ms

Loss rate: 2.35%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-03 17:55:40

End at: 2018-04-03 17:56:10

Below is generated by plot.py at 2018-04-03 22:25:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.34 Mbit/s

95th percentile per-packet one-way delay: 147.382 ms

Loss rate: 0.97%

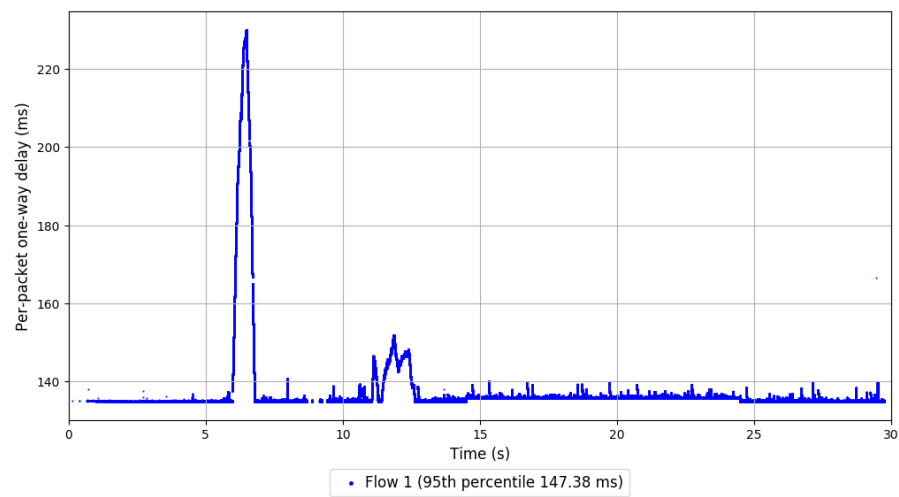
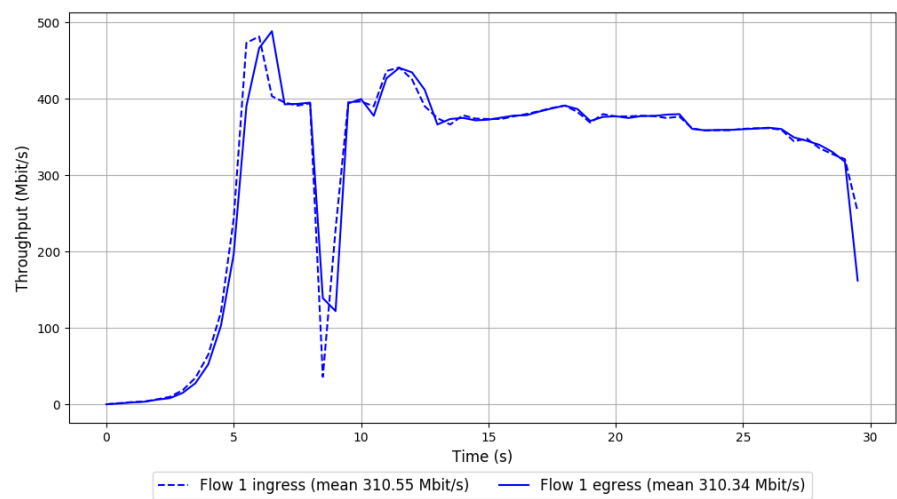
-- Flow 1:

Average throughput: 310.34 Mbit/s

95th percentile per-packet one-way delay: 147.382 ms

Loss rate: 0.97%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-03 18:11:30

End at: 2018-04-03 18:12:00

Below is generated by plot.py at 2018-04-03 22:27:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.31 Mbit/s

95th percentile per-packet one-way delay: 137.325 ms

Loss rate: 1.06%

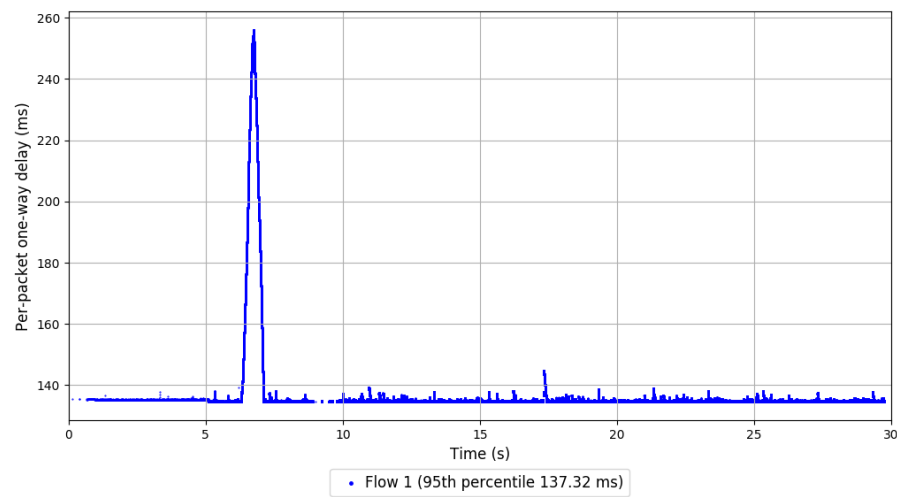
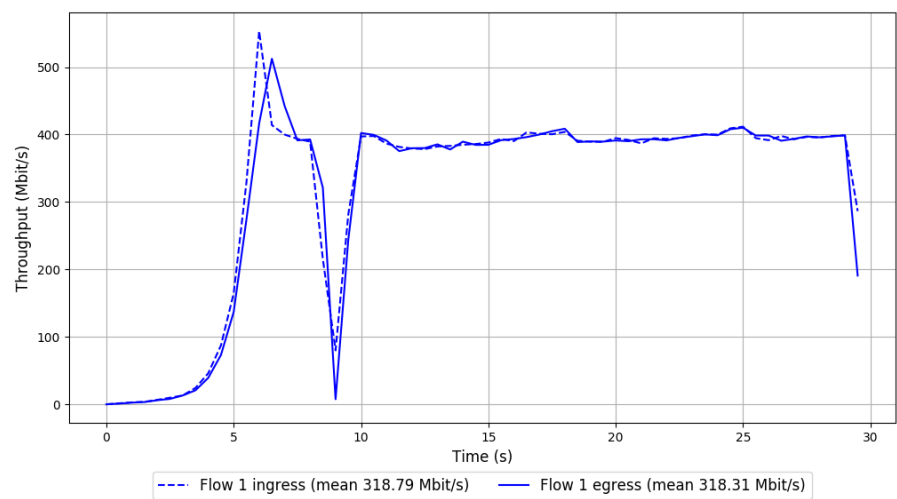
-- Flow 1:

Average throughput: 318.31 Mbit/s

95th percentile per-packet one-way delay: 137.325 ms

Loss rate: 1.06%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-03 18:26:57

End at: 2018-04-03 18:27:27

Below is generated by plot.py at 2018-04-03 22:27:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.79 Mbit/s

95th percentile per-packet one-way delay: 162.169 ms

Loss rate: 1.11%

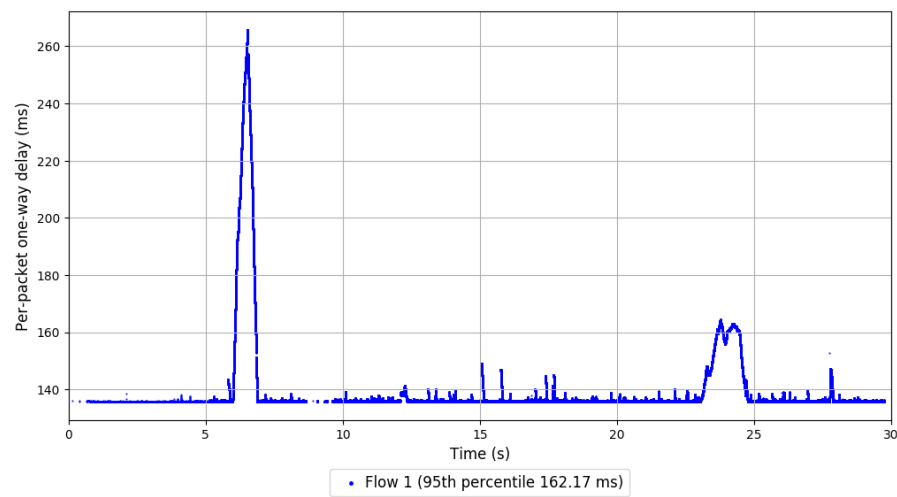
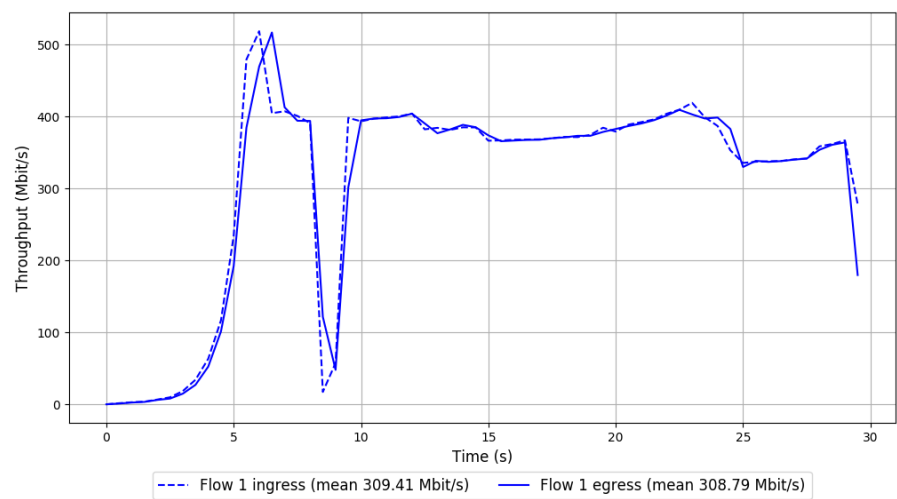
-- Flow 1:

Average throughput: 308.79 Mbit/s

95th percentile per-packet one-way delay: 162.169 ms

Loss rate: 1.11%

Run 10: Report of Vivace-latency — Data Link

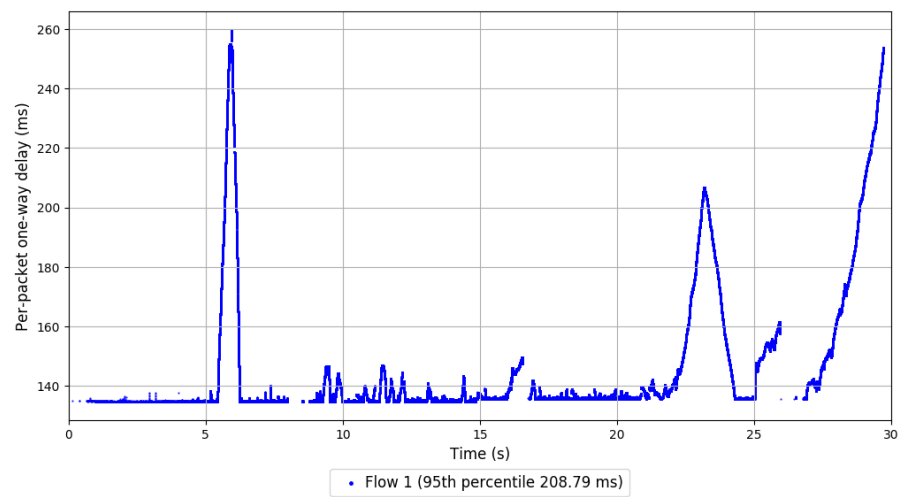
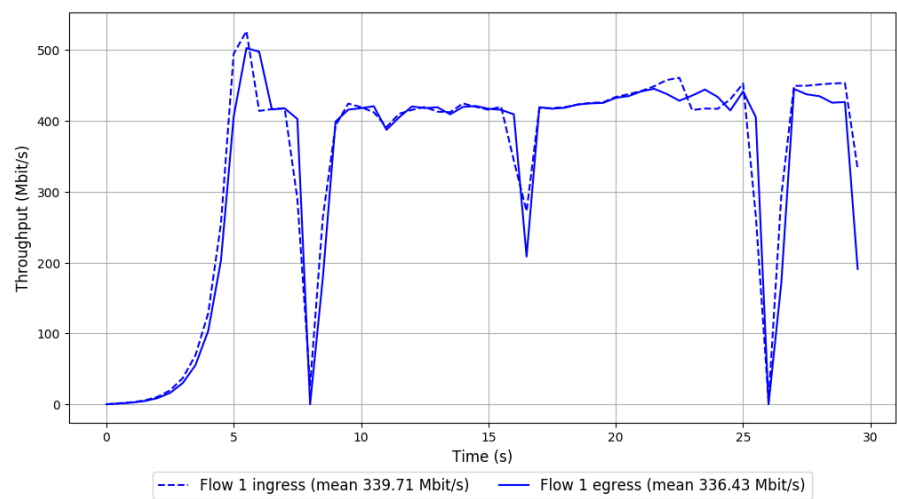


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-03 15:59:30
End at: 2018-04-03 16:00:00

# Below is generated by plot.py at 2018-04-03 22:28:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 336.43 Mbit/s
95th percentile per-packet one-way delay: 208.786 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 336.43 Mbit/s
95th percentile per-packet one-way delay: 208.786 ms
Loss rate: 1.86%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-03 16:15:05

End at: 2018-04-03 16:15:35

Below is generated by plot.py at 2018-04-03 22:28:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.11 Mbit/s

95th percentile per-packet one-way delay: 236.583 ms

Loss rate: 2.26%

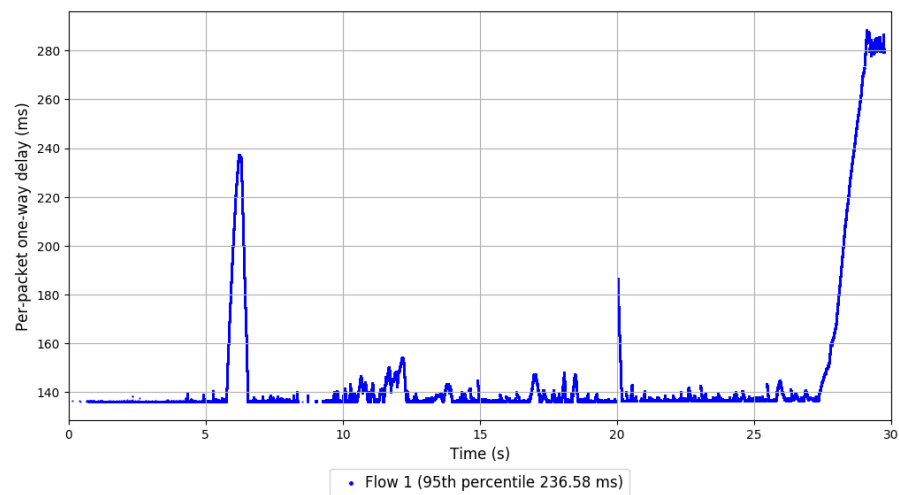
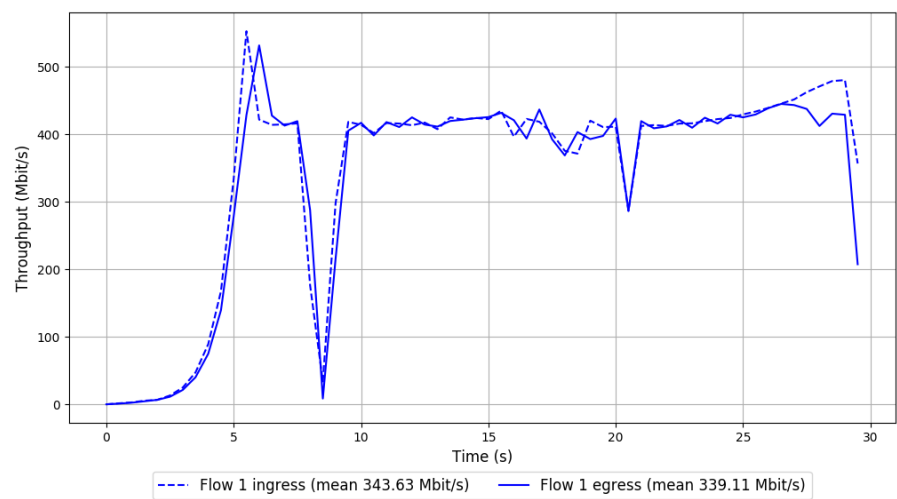
-- Flow 1:

Average throughput: 339.11 Mbit/s

95th percentile per-packet one-way delay: 236.583 ms

Loss rate: 2.26%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-03 16:30:55

End at: 2018-04-03 16:31:25

Below is generated by plot.py at 2018-04-03 22:28:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.00 Mbit/s

95th percentile per-packet one-way delay: 281.924 ms

Loss rate: 5.14%

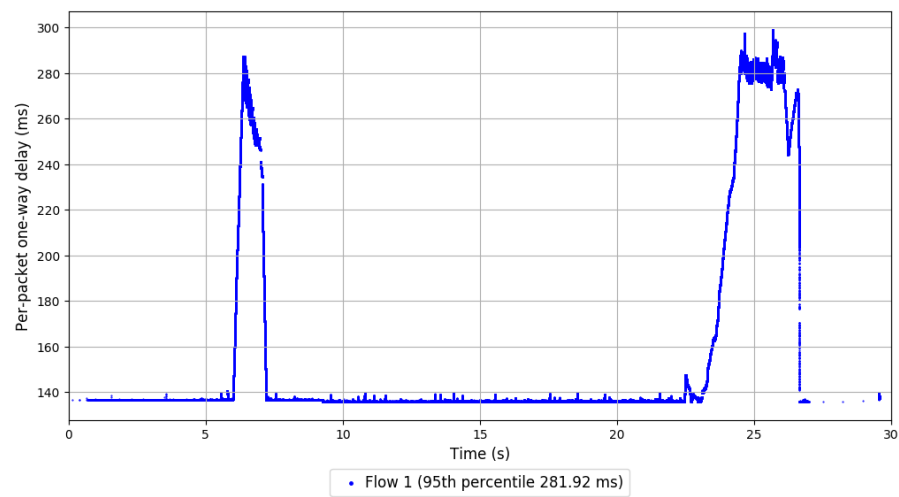
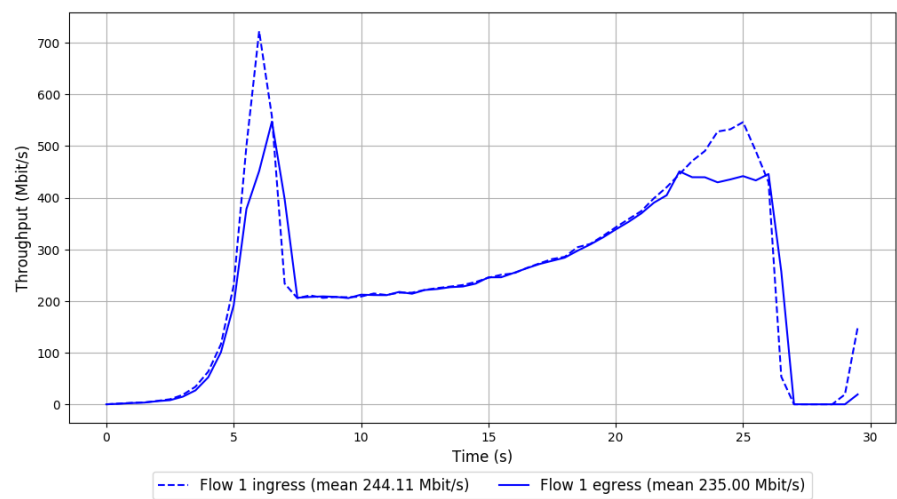
-- Flow 1:

Average throughput: 235.00 Mbit/s

95th percentile per-packet one-way delay: 281.924 ms

Loss rate: 5.14%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-03 16:46:47

End at: 2018-04-03 16:47:17

Below is generated by plot.py at 2018-04-03 22:28:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.51 Mbit/s

95th percentile per-packet one-way delay: 282.356 ms

Loss rate: 4.02%

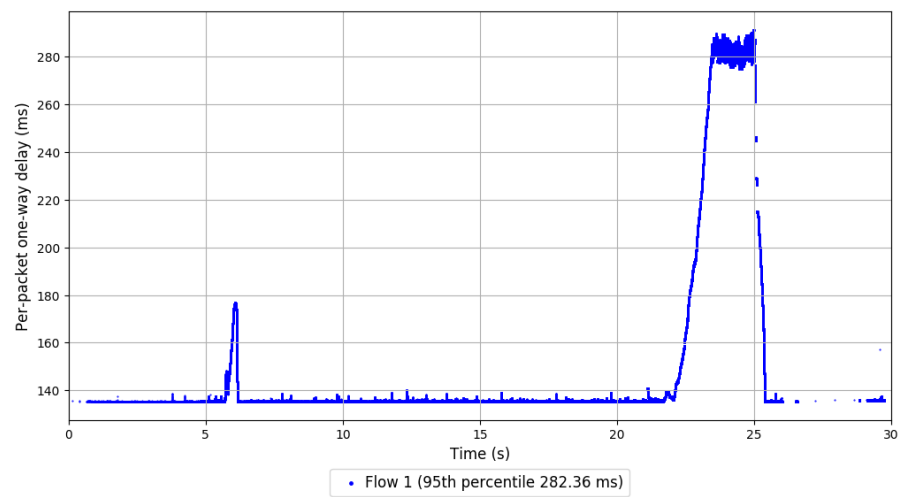
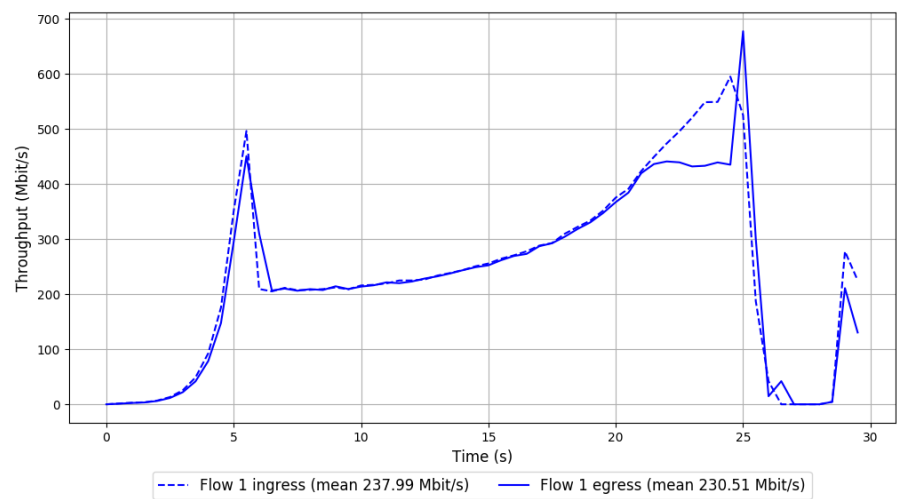
-- Flow 1:

Average throughput: 230.51 Mbit/s

95th percentile per-packet one-way delay: 282.356 ms

Loss rate: 4.02%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-03 17:02:44

End at: 2018-04-03 17:03:14

Below is generated by plot.py at 2018-04-03 22:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.02 Mbit/s

95th percentile per-packet one-way delay: 293.390 ms

Loss rate: 9.34%

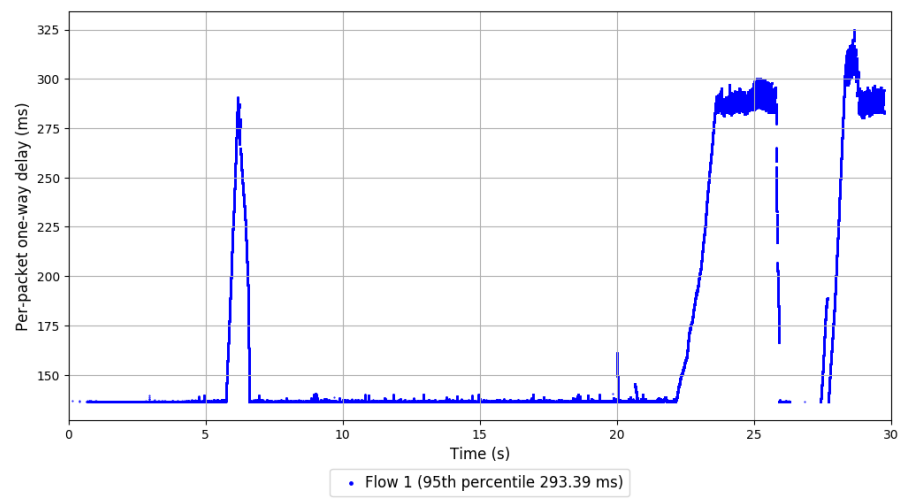
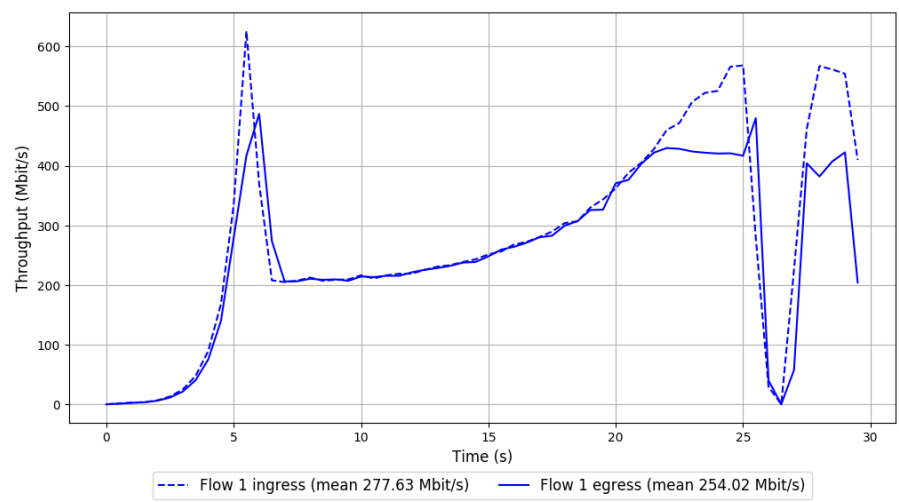
-- Flow 1:

Average throughput: 254.02 Mbit/s

95th percentile per-packet one-way delay: 293.390 ms

Loss rate: 9.34%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-03 17:18:33

End at: 2018-04-03 17:19:03

Below is generated by plot.py at 2018-04-03 22:31:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.57 Mbit/s

95th percentile per-packet one-way delay: 284.501 ms

Loss rate: 6.05%

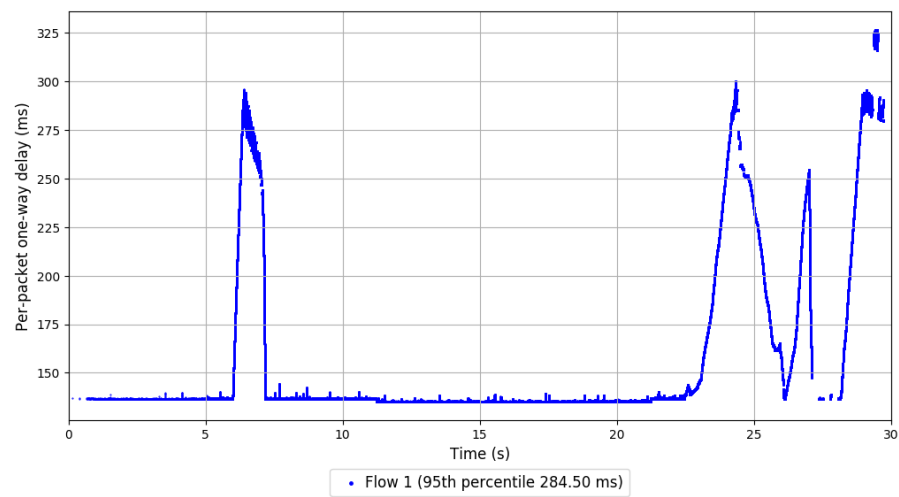
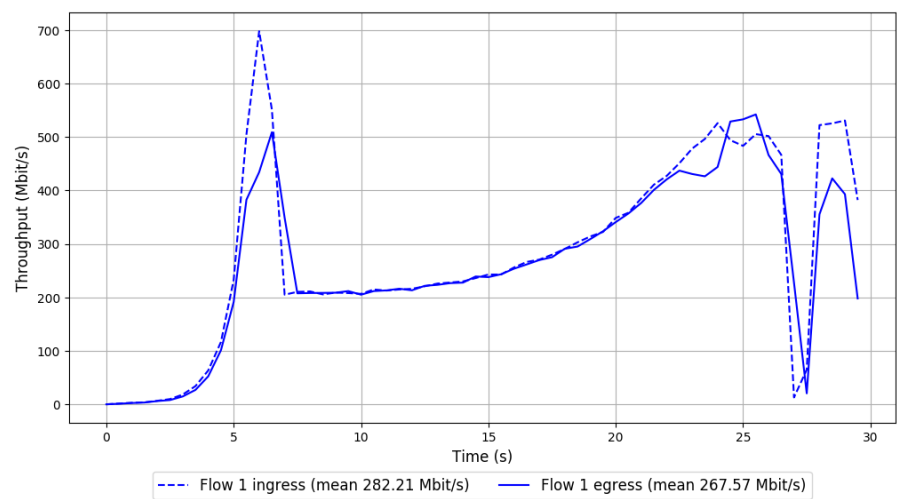
-- Flow 1:

Average throughput: 267.57 Mbit/s

95th percentile per-packet one-way delay: 284.501 ms

Loss rate: 6.05%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-03 17:34:21

End at: 2018-04-03 17:34:51

Below is generated by plot.py at 2018-04-03 22:31:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.35 Mbit/s

95th percentile per-packet one-way delay: 269.283 ms

Loss rate: 6.37%

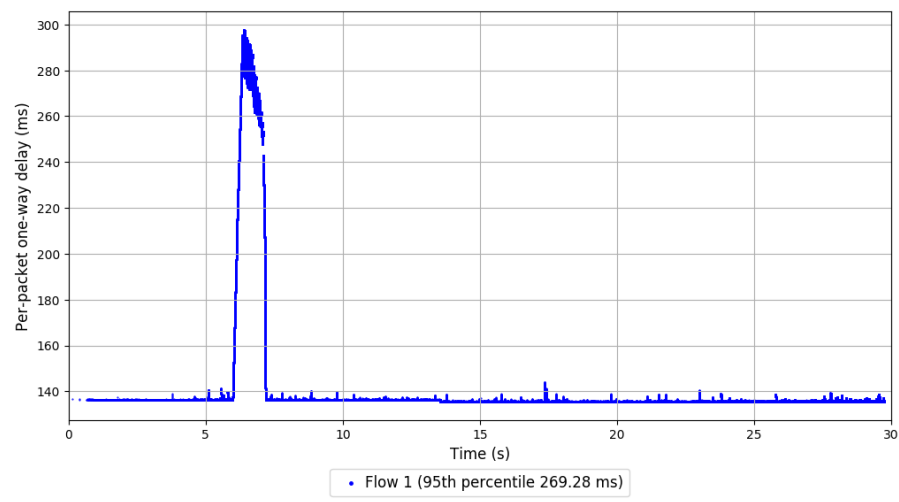
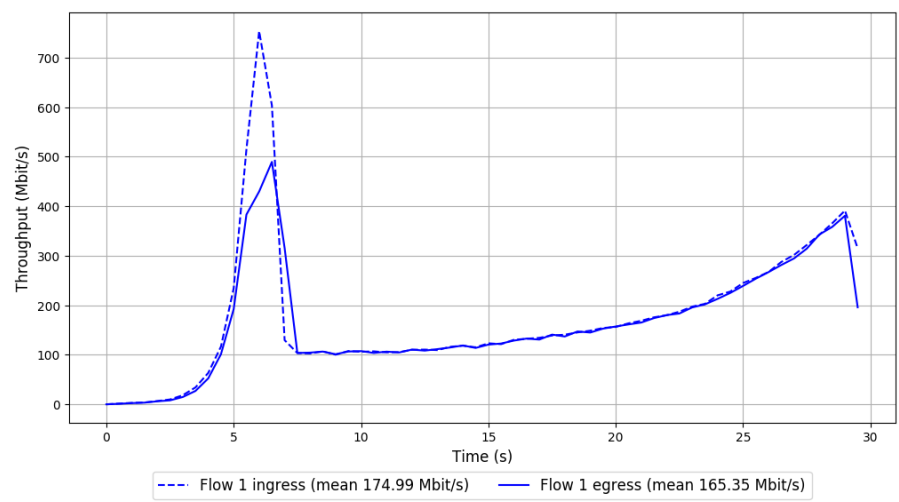
-- Flow 1:

Average throughput: 165.35 Mbit/s

95th percentile per-packet one-way delay: 269.283 ms

Loss rate: 6.37%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-03 17:49:41

End at: 2018-04-03 17:50:11

Below is generated by plot.py at 2018-04-03 22:32:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.79 Mbit/s

95th percentile per-packet one-way delay: 297.498 ms

Loss rate: 8.37%

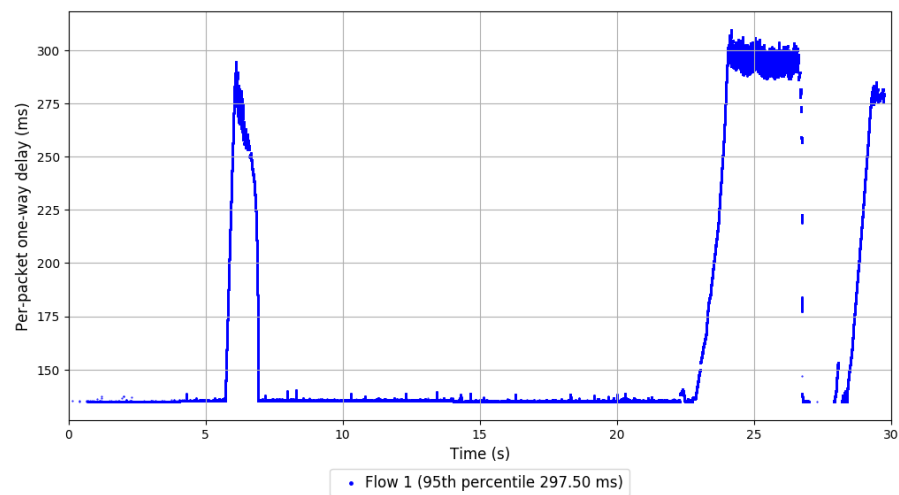
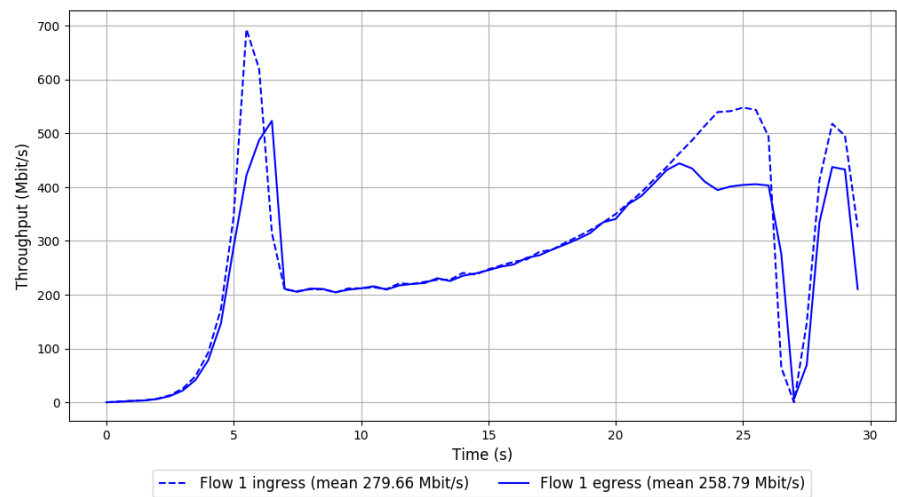
-- Flow 1:

Average throughput: 258.79 Mbit/s

95th percentile per-packet one-way delay: 297.498 ms

Loss rate: 8.37%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-03 18:05:28

End at: 2018-04-03 18:05:58

Below is generated by plot.py at 2018-04-03 22:32:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.85 Mbit/s

95th percentile per-packet one-way delay: 285.104 ms

Loss rate: 5.92%

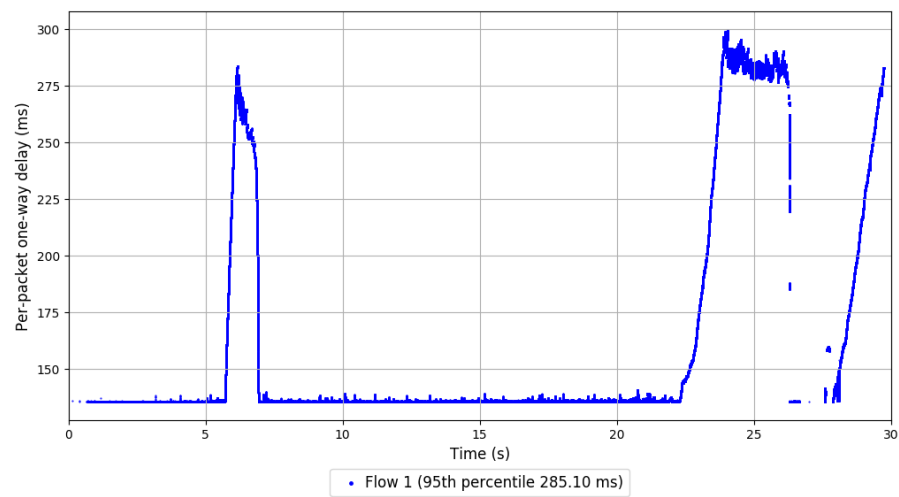
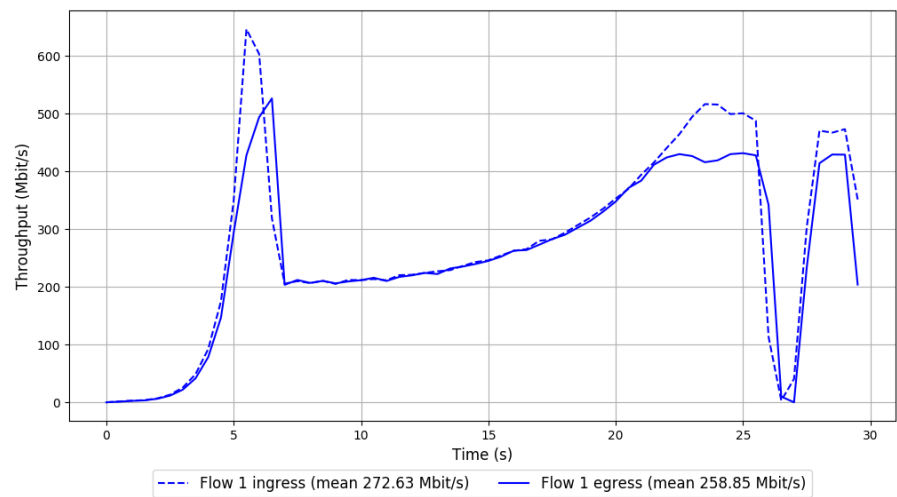
-- Flow 1:

Average throughput: 258.85 Mbit/s

95th percentile per-packet one-way delay: 285.104 ms

Loss rate: 5.92%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-03 18:21:03

End at: 2018-04-03 18:21:33

Below is generated by plot.py at 2018-04-03 22:32:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.96 Mbit/s

95th percentile per-packet one-way delay: 287.309 ms

Loss rate: 6.86%

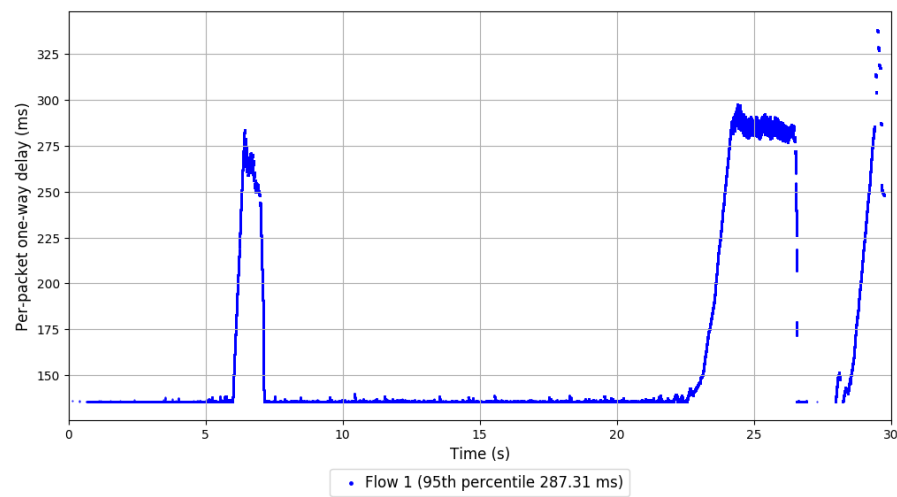
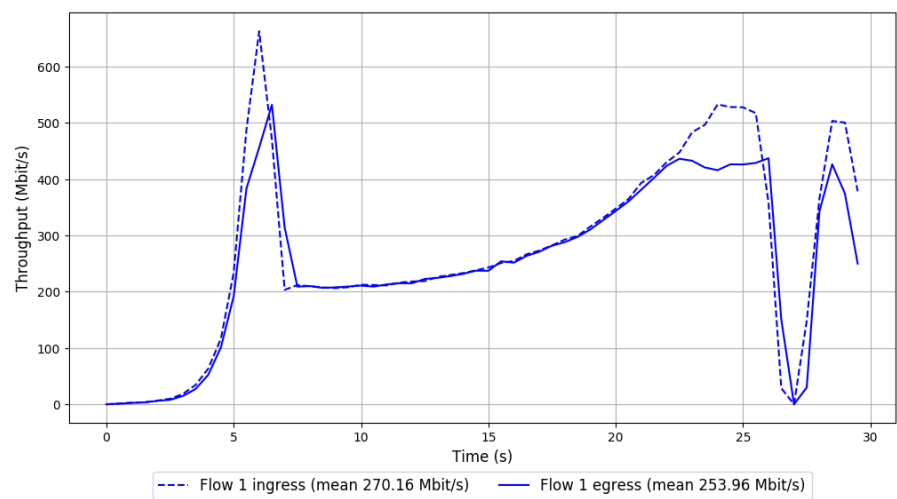
-- Flow 1:

Average throughput: 253.96 Mbit/s

95th percentile per-packet one-way delay: 287.309 ms

Loss rate: 6.86%

Run 10: Report of Vivace-loss — Data Link

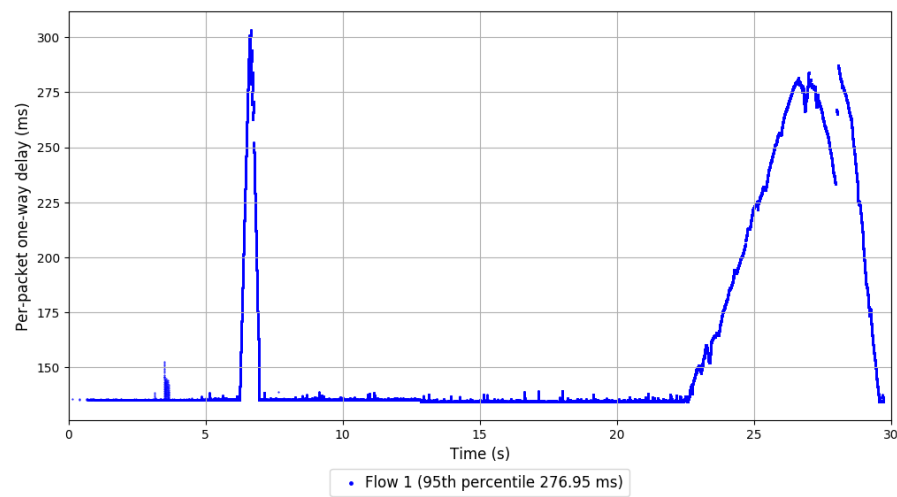
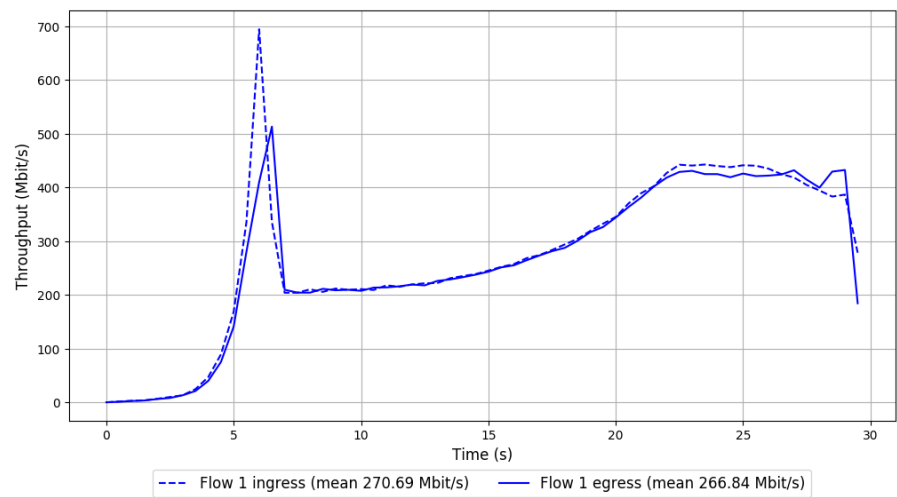


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-03 16:04:32
End at: 2018-04-03 16:05:02

# Below is generated by plot.py at 2018-04-03 22:34:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.84 Mbit/s
95th percentile per-packet one-way delay: 276.954 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 266.84 Mbit/s
95th percentile per-packet one-way delay: 276.954 ms
Loss rate: 2.32%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-03 16:20:06

End at: 2018-04-03 16:20:36

Below is generated by plot.py at 2018-04-03 22:36:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.00 Mbit/s

95th percentile per-packet one-way delay: 169.246 ms

Loss rate: 1.71%

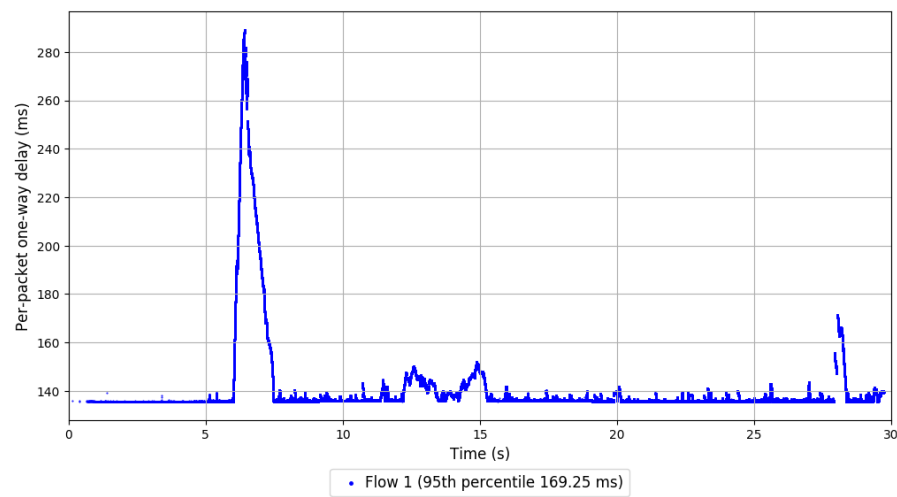
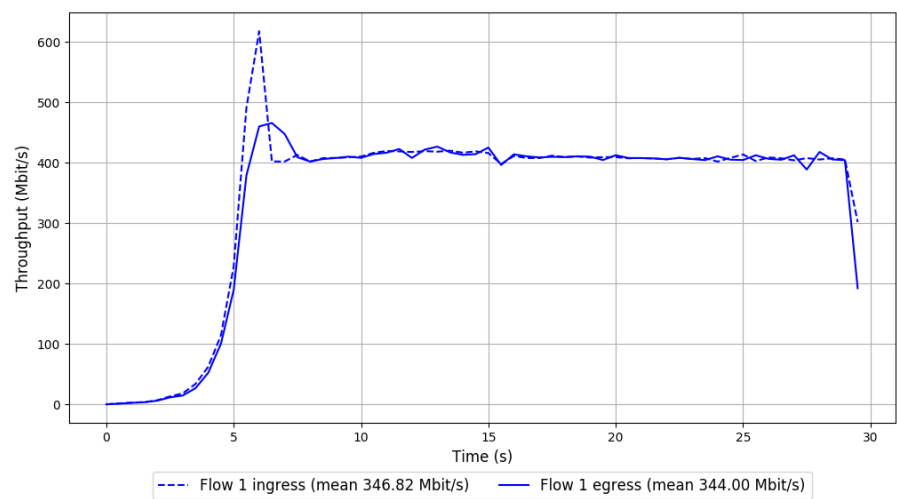
-- Flow 1:

Average throughput: 344.00 Mbit/s

95th percentile per-packet one-way delay: 169.246 ms

Loss rate: 1.71%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-03 16:35:52

End at: 2018-04-03 16:36:22

Below is generated by plot.py at 2018-04-03 22:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.25 Mbit/s

95th percentile per-packet one-way delay: 140.591 ms

Loss rate: 1.13%

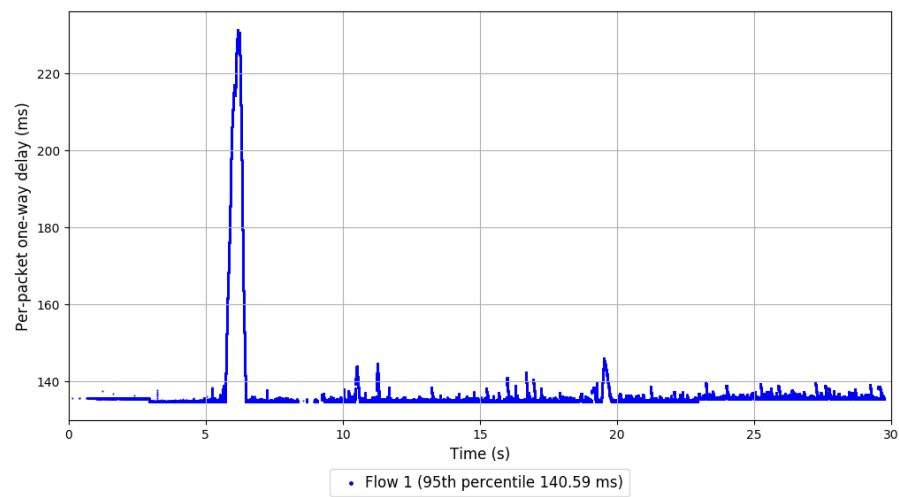
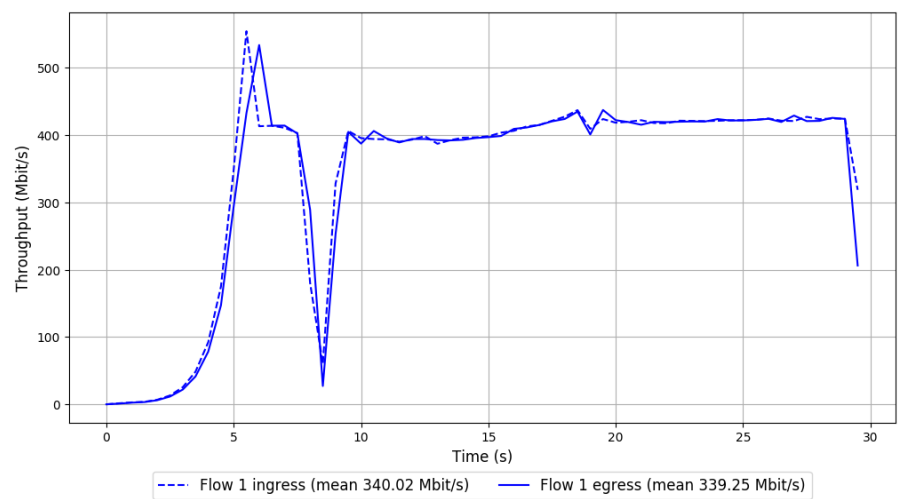
-- Flow 1:

Average throughput: 339.25 Mbit/s

95th percentile per-packet one-way delay: 140.591 ms

Loss rate: 1.13%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-03 16:51:45

End at: 2018-04-03 16:52:15

Below is generated by plot.py at 2018-04-03 22:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.27 Mbit/s

95th percentile per-packet one-way delay: 166.745 ms

Loss rate: 1.35%

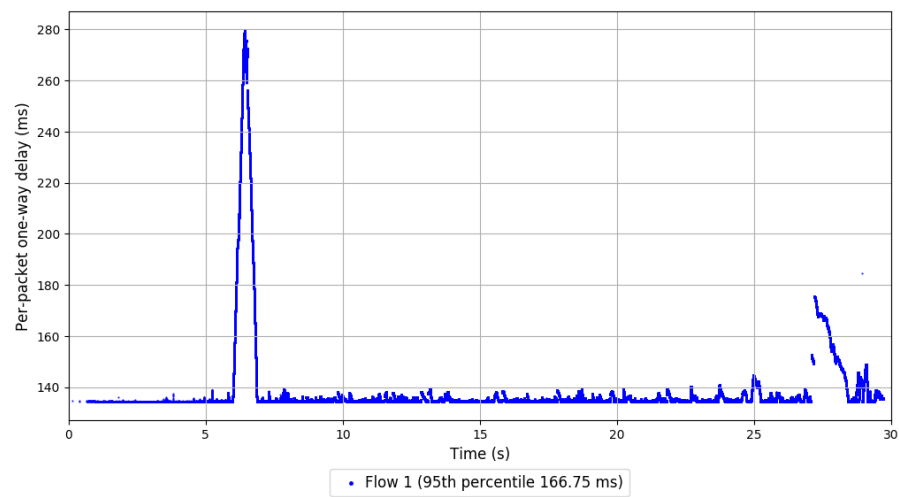
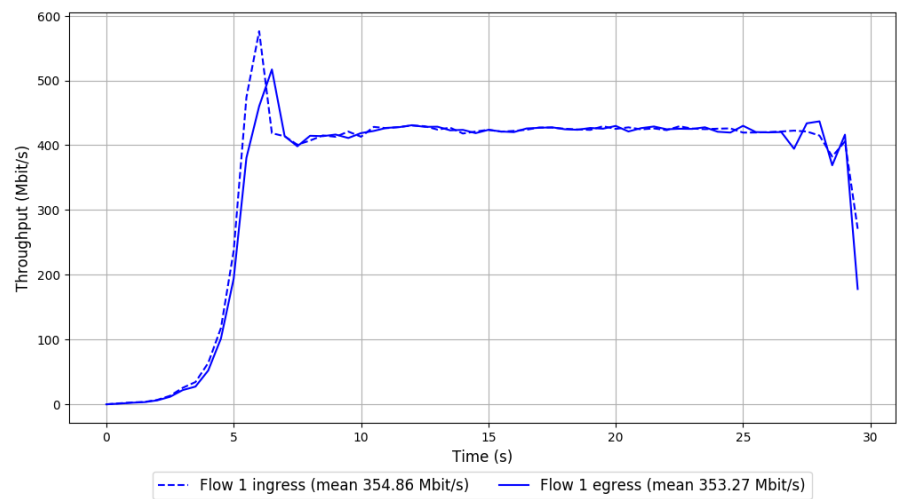
-- Flow 1:

Average throughput: 353.27 Mbit/s

95th percentile per-packet one-way delay: 166.745 ms

Loss rate: 1.35%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-03 17:07:42

End at: 2018-04-03 17:08:12

Below is generated by plot.py at 2018-04-03 22:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.58 Mbit/s

95th percentile per-packet one-way delay: 135.915 ms

Loss rate: 1.40%

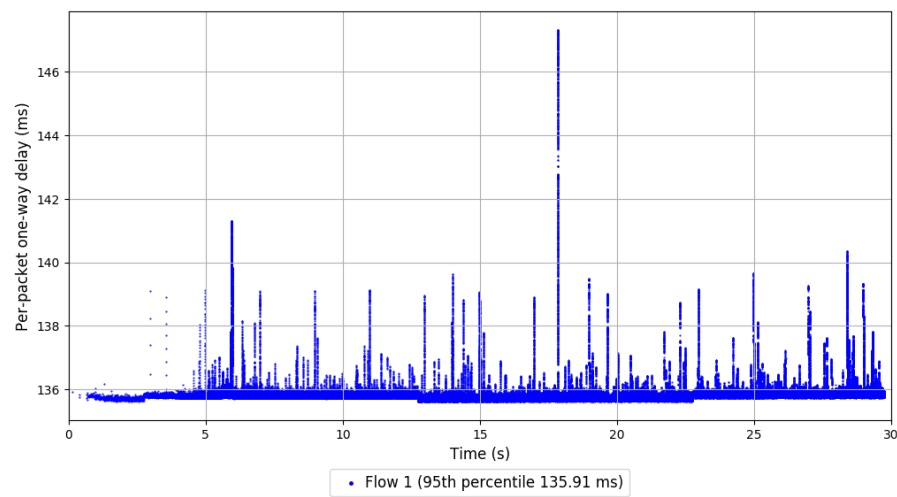
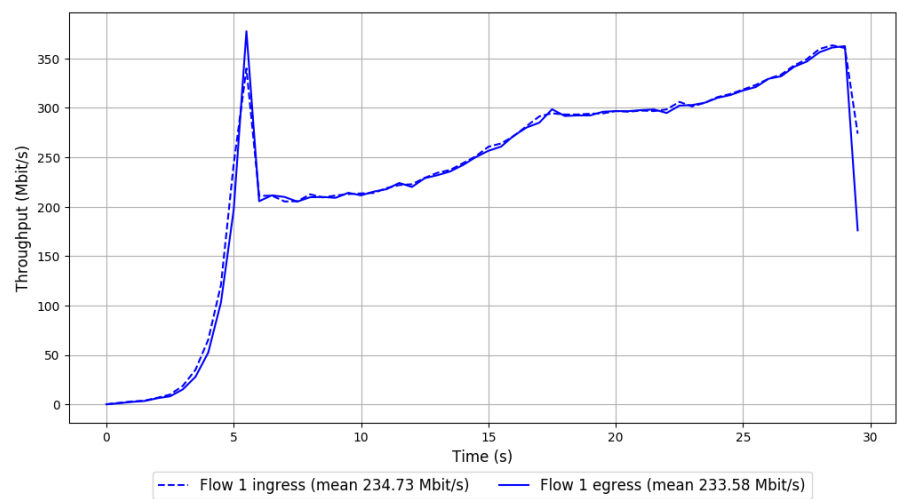
-- Flow 1:

Average throughput: 233.58 Mbit/s

95th percentile per-packet one-way delay: 135.915 ms

Loss rate: 1.40%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-03 17:23:28

End at: 2018-04-03 17:23:58

Below is generated by plot.py at 2018-04-03 22:38:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.34 Mbit/s

95th percentile per-packet one-way delay: 161.448 ms

Loss rate: 1.78%

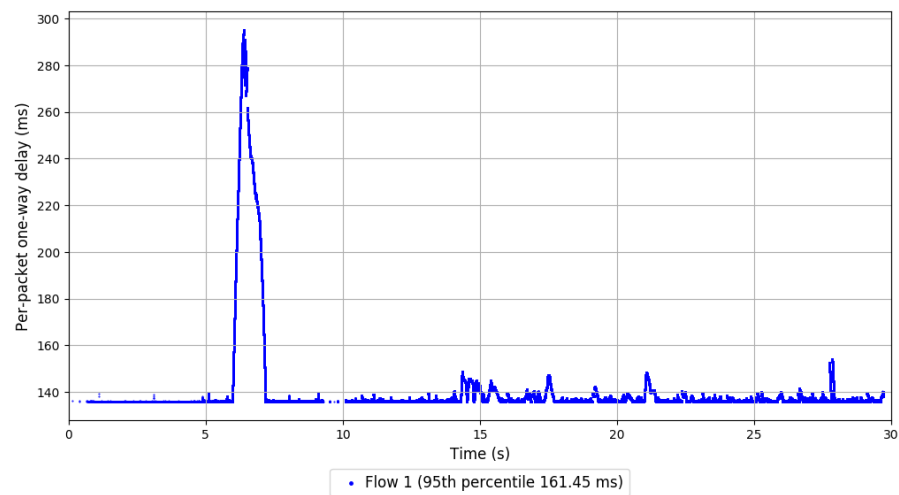
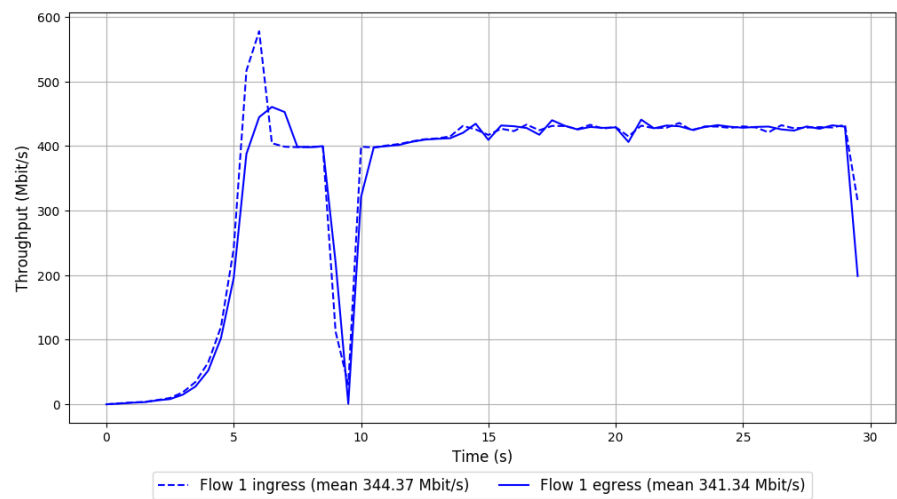
-- Flow 1:

Average throughput: 341.34 Mbit/s

95th percentile per-packet one-way delay: 161.448 ms

Loss rate: 1.78%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-03 17:39:12

End at: 2018-04-03 17:39:42

Below is generated by plot.py at 2018-04-03 22:38:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.19 Mbit/s

95th percentile per-packet one-way delay: 157.882 ms

Loss rate: 1.22%

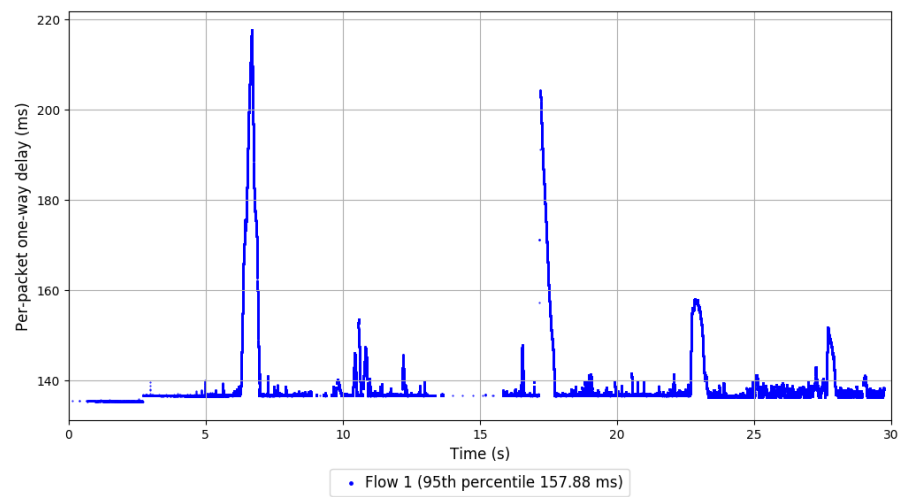
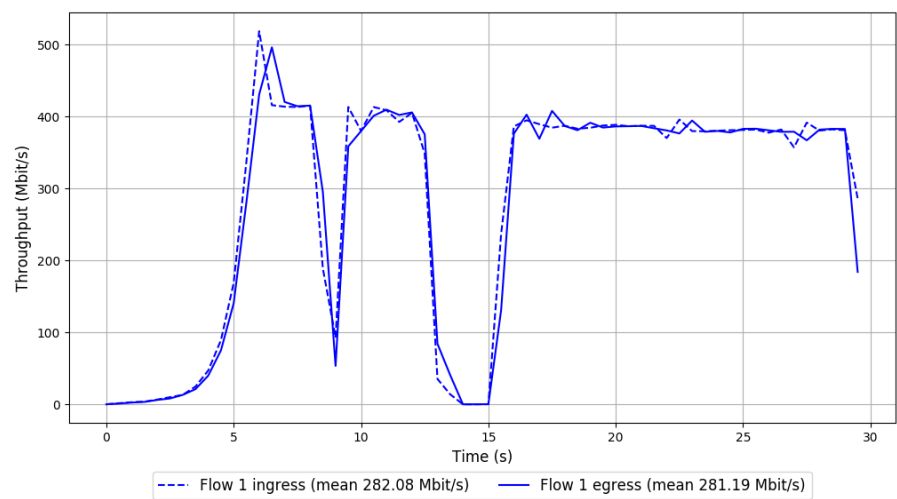
-- Flow 1:

Average throughput: 281.19 Mbit/s

95th percentile per-packet one-way delay: 157.882 ms

Loss rate: 1.22%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-03 17:54:38

End at: 2018-04-03 17:55:08

Below is generated by plot.py at 2018-04-03 22:38:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.65 Mbit/s

95th percentile per-packet one-way delay: 159.715 ms

Loss rate: 2.54%

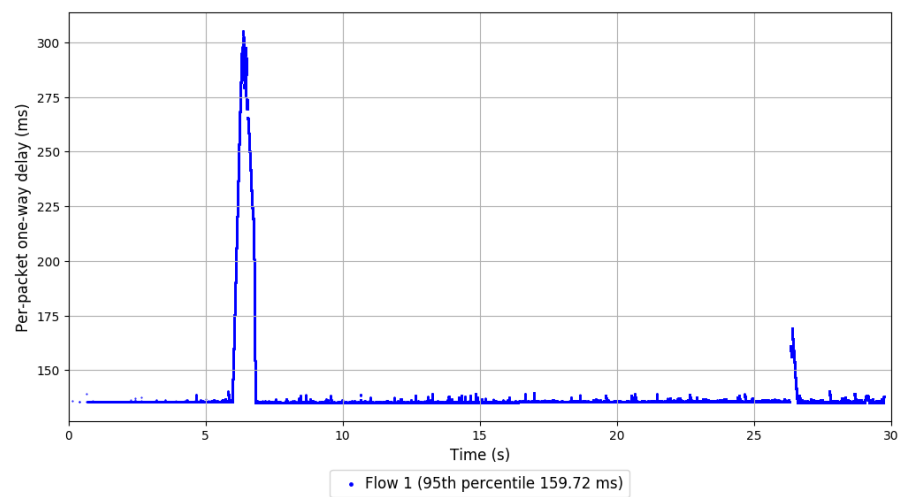
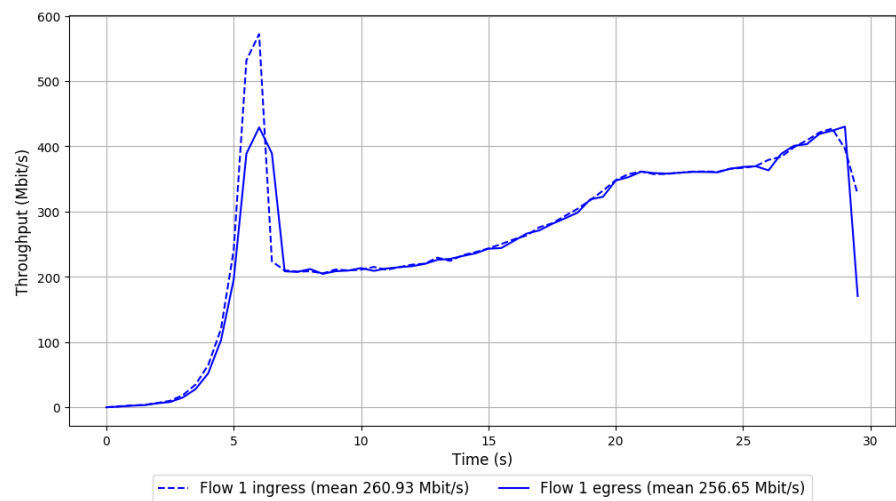
-- Flow 1:

Average throughput: 256.65 Mbit/s

95th percentile per-packet one-way delay: 159.715 ms

Loss rate: 2.54%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-03 18:10:26

End at: 2018-04-03 18:10:56

Below is generated by plot.py at 2018-04-03 22:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.36 Mbit/s

95th percentile per-packet one-way delay: 294.078 ms

Loss rate: 3.52%

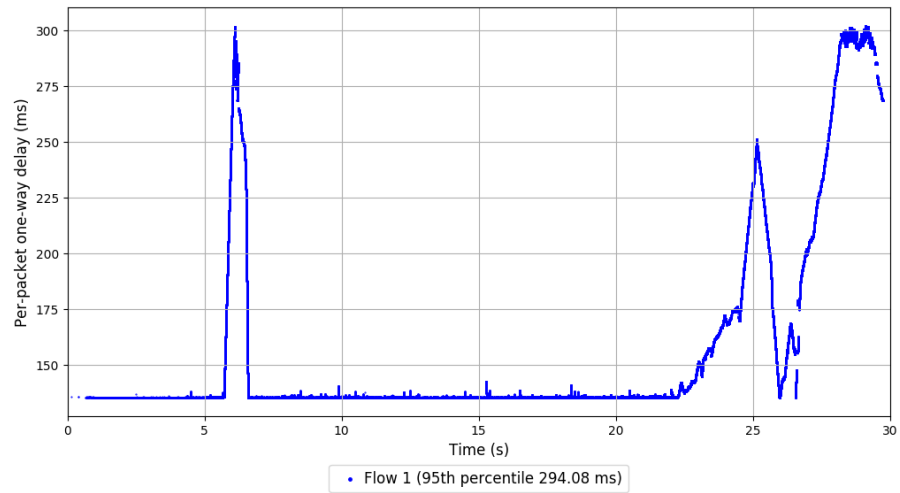
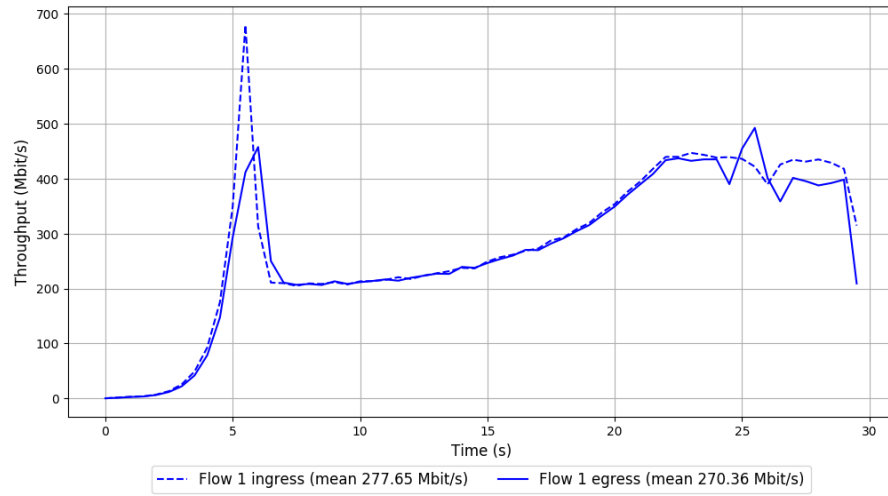
-- Flow 1:

Average throughput: 270.36 Mbit/s

95th percentile per-packet one-way delay: 294.078 ms

Loss rate: 3.52%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-03 18:26:02

End at: 2018-04-03 18:26:32

Below is generated by plot.py at 2018-04-03 22:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.36 Mbit/s

95th percentile per-packet one-way delay: 240.887 ms

Loss rate: 3.14%

-- Flow 1:

Average throughput: 156.36 Mbit/s

95th percentile per-packet one-way delay: 240.887 ms

Loss rate: 3.14%

Run 10: Report of Vivace-LTE — Data Link

