

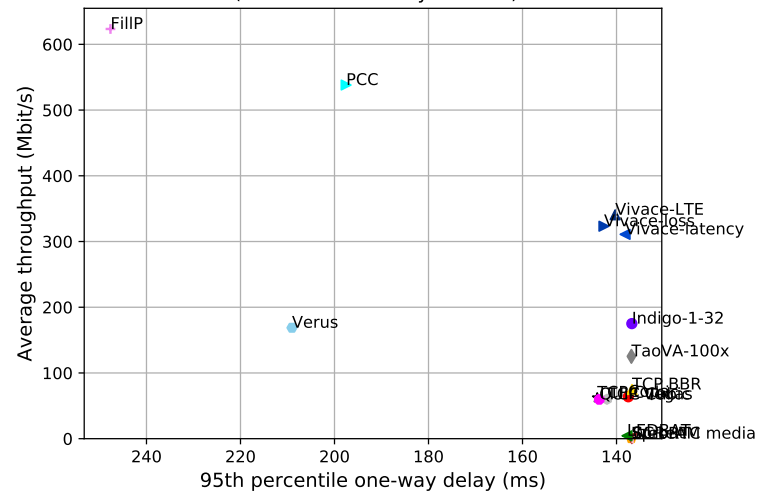
Pantheon Report

Generated at 2018-04-04 00:05:28 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

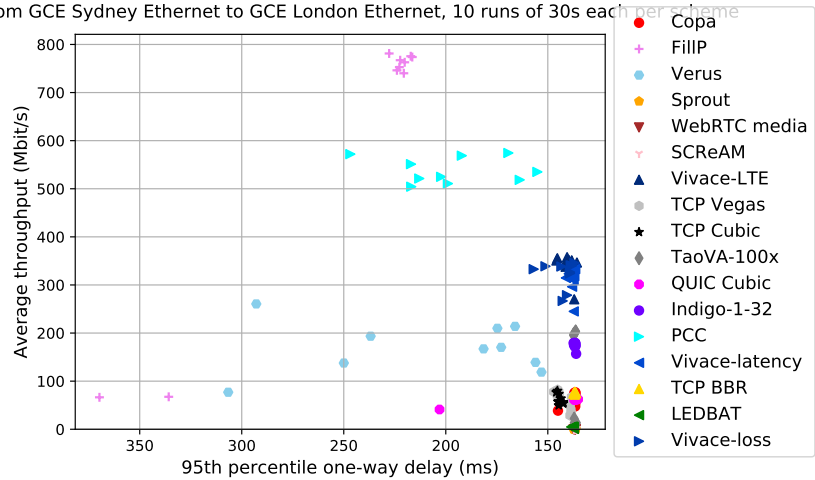
Git summary:

```
branch: master @ 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 @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



test from GCE Sydney Ethernet to GCE London Ethernet, 10 runs of 30s each 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	74.90	136.70	0.00
TCP Cubic	10	62.35	144.10	0.03
LEDBAT	10	4.41	137.78	0.00
PCC	10	538.11	197.52	1.33
QUIC Cubic	9	59.72	143.68	0.00
SCReAM	10	0.22	136.58	0.00
WebRTC media	10	0.06	136.73	0.00
Sprout	10	0.43	136.86	0.00
TaoVA-100x	10	125.28	136.84	0.01
TCP Vegas	10	59.98	142.03	0.00
Verus	10	168.79	209.05	0.64
Copa	10	63.80	137.50	0.27
FillP	10	623.38	247.66	6.89
Indigo-1-32	10	175.08	136.74	0.00
Vivace-latency	10	310.90	138.18	0.03
Vivace-loss	10	323.28	142.67	0.01
Vivace-LTE	10	340.68	140.29	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-04-03 18:45:29

End at: 2018-04-03 18:45:59

Below is generated by plot.py at 2018-04-03 22:41:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.05 Mbit/s

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

Loss rate: 0.00%

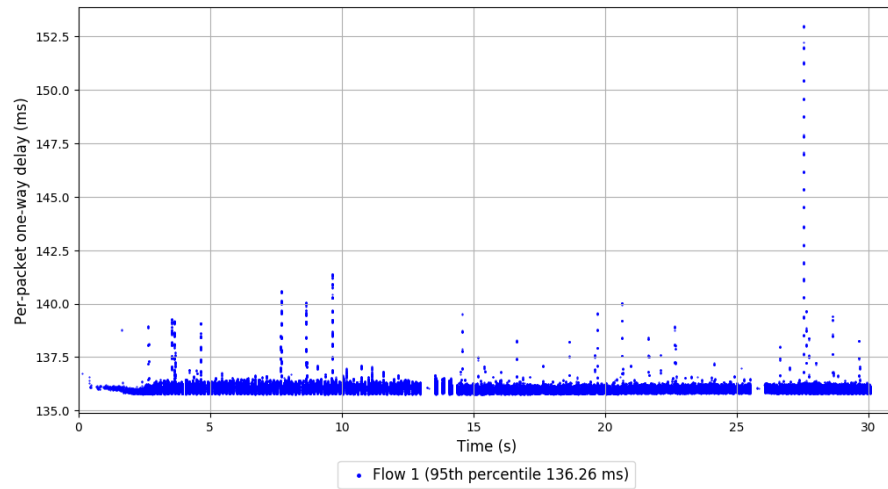
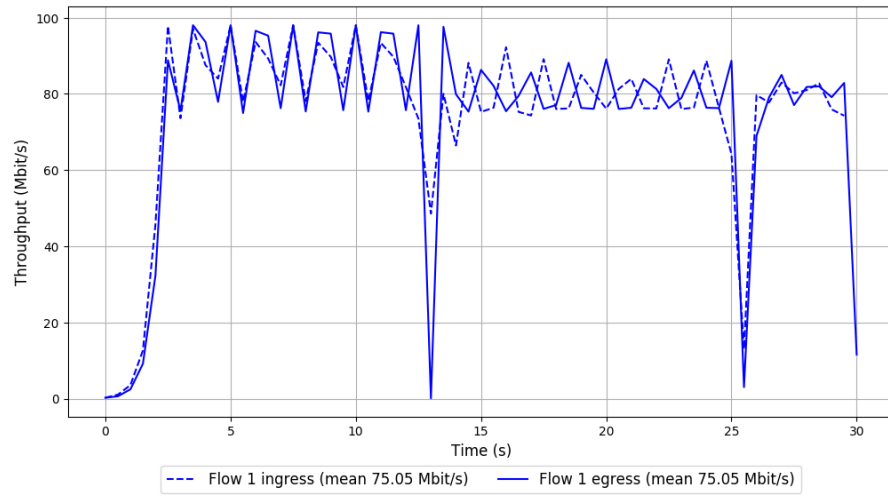
-- Flow 1:

Average throughput: 75.05 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-03 19:01:21

End at: 2018-04-03 19:01:51

Below is generated by plot.py at 2018-04-03 22:41:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.07 Mbit/s

95th percentile per-packet one-way delay: 136.300 ms

Loss rate: 0.00%

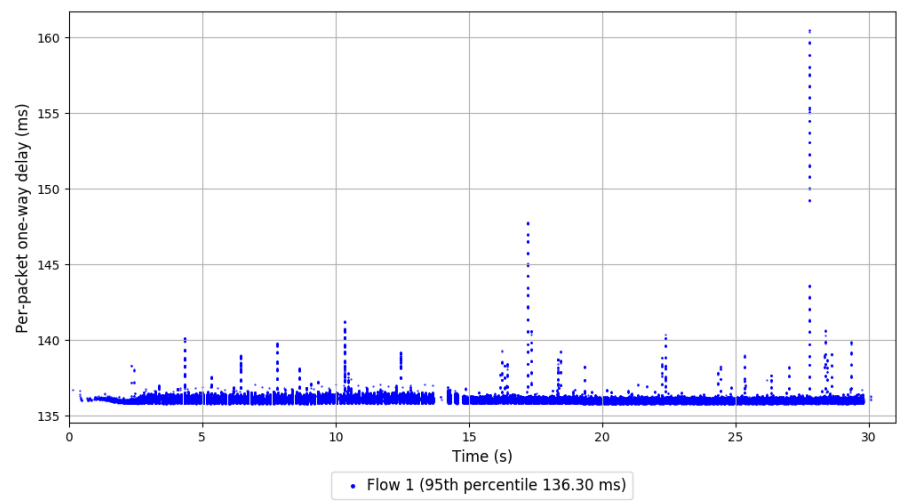
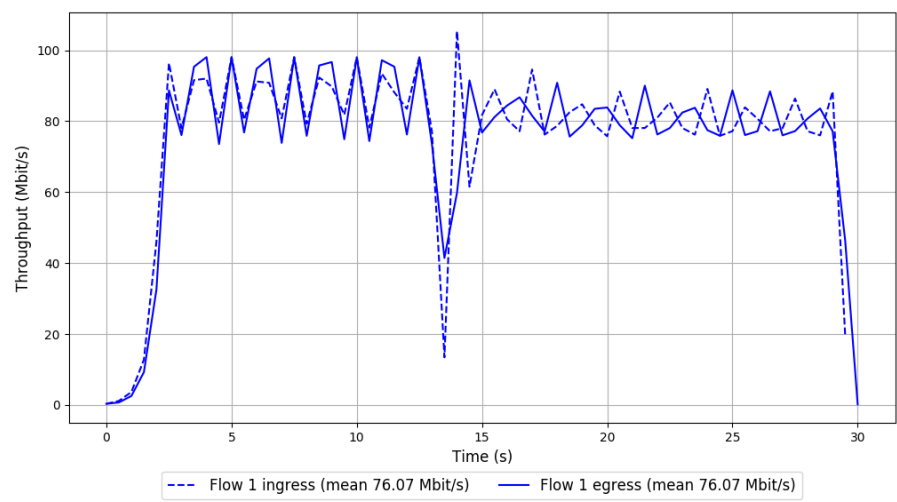
-- Flow 1:

Average throughput: 76.07 Mbit/s

95th percentile per-packet one-way delay: 136.300 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-03 19:17:25

End at: 2018-04-03 19:17:55

Below is generated by plot.py at 2018-04-03 22:41:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 136.747 ms

Loss rate: 0.00%

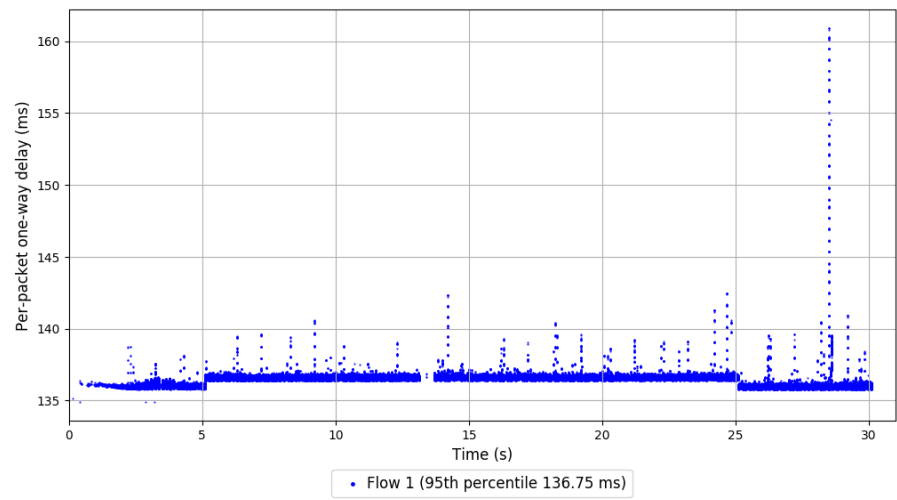
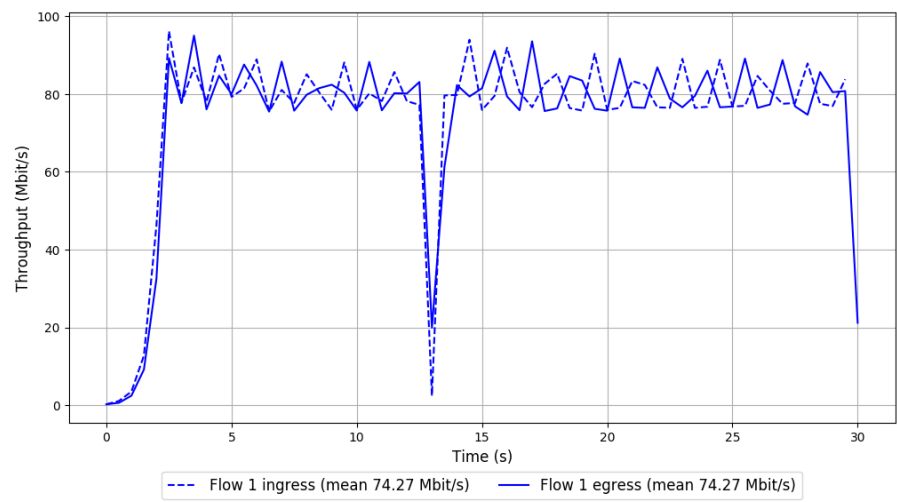
-- Flow 1:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 136.747 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-03 19:33:22

End at: 2018-04-03 19:33:52

Below is generated by plot.py at 2018-04-03 22:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.50 Mbit/s

95th percentile per-packet one-way delay: 136.667 ms

Loss rate: 0.00%

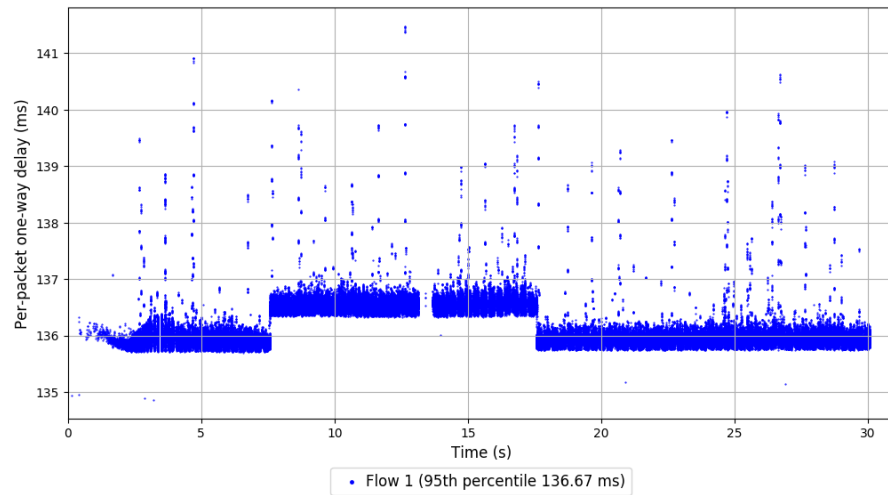
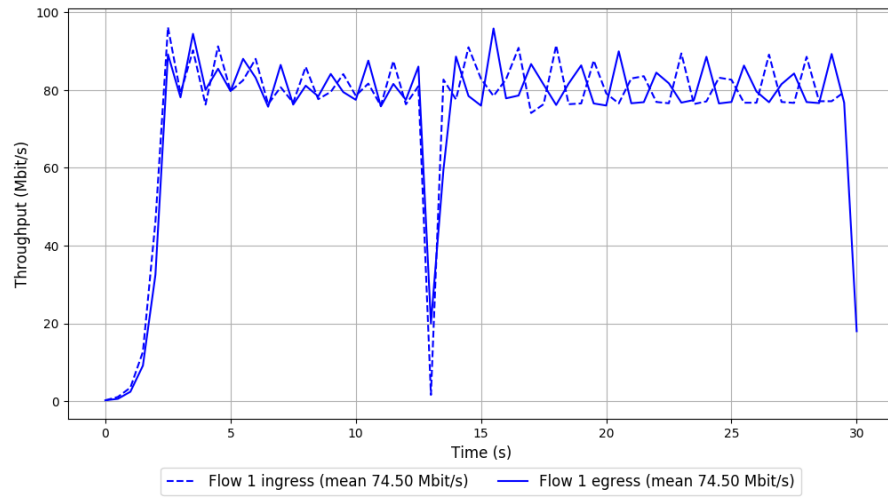
-- Flow 1:

Average throughput: 74.50 Mbit/s

95th percentile per-packet one-way delay: 136.667 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-03 19:49:02

End at: 2018-04-03 19:49:32

Below is generated by plot.py at 2018-04-03 22:41:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 136.188 ms

Loss rate: 0.00%

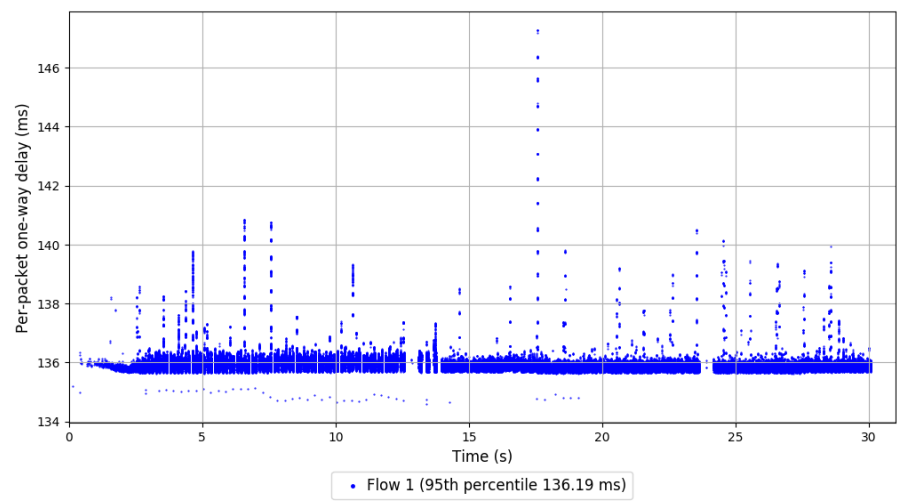
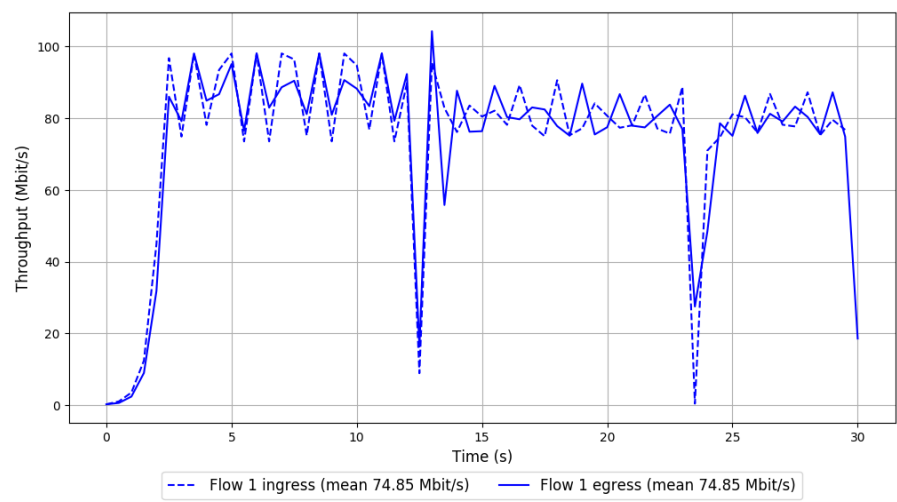
-- Flow 1:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 136.188 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-03 20:05:04

End at: 2018-04-03 20:05:35

Below is generated by plot.py at 2018-04-03 22:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.06 Mbit/s

95th percentile per-packet one-way delay: 136.765 ms

Loss rate: 0.00%

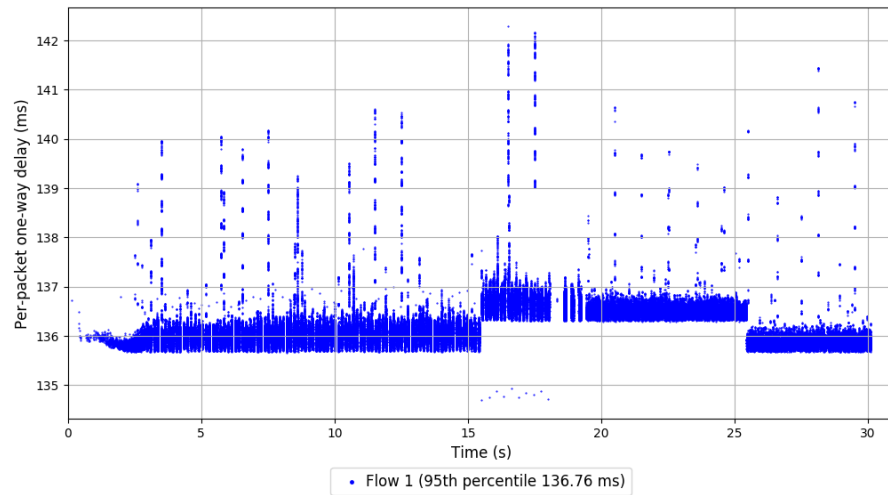
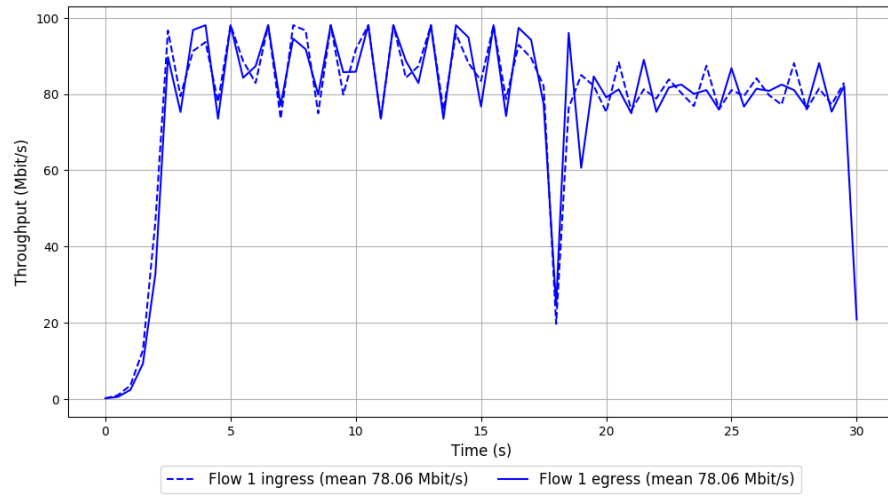
-- Flow 1:

Average throughput: 78.06 Mbit/s

95th percentile per-packet one-way delay: 136.765 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-03 20:21:09

End at: 2018-04-03 20:21:39

Below is generated by plot.py at 2018-04-03 22:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 137.295 ms

Loss rate: 0.00%

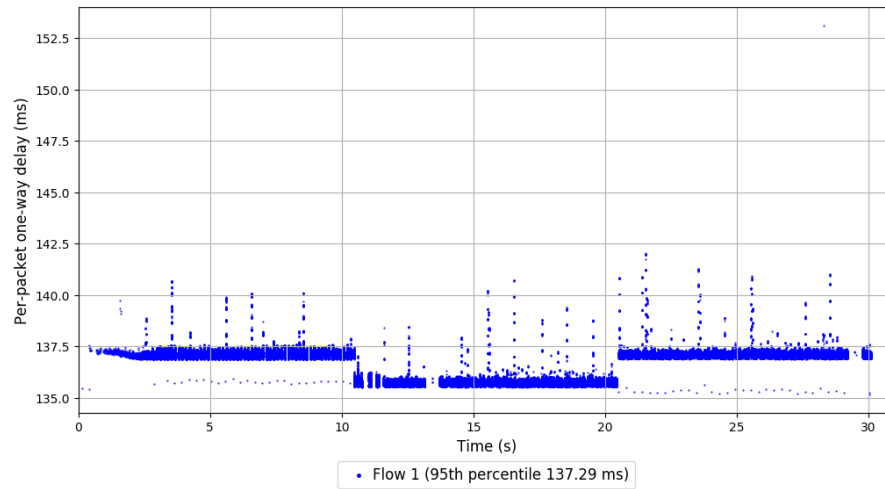
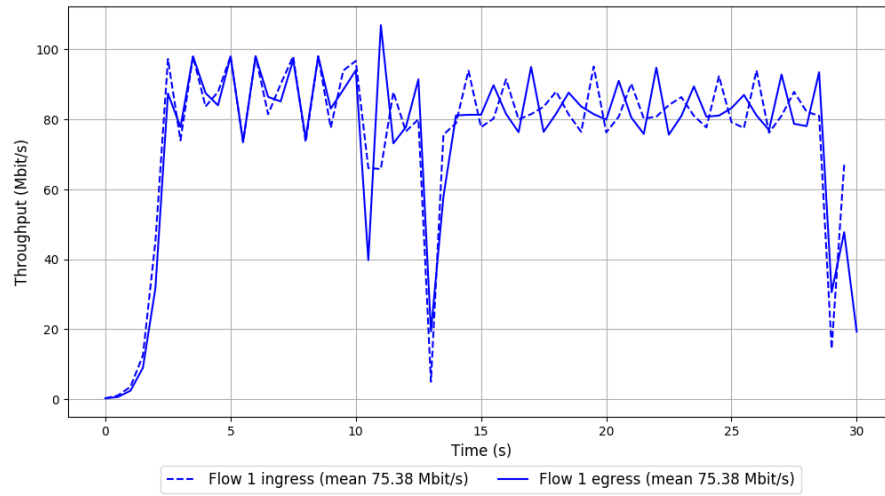
-- Flow 1:

Average throughput: 75.38 Mbit/s

95th percentile per-packet one-way delay: 137.295 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-03 20:36:52

End at: 2018-04-03 20:37:22

Below is generated by plot.py at 2018-04-03 22:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.00 Mbit/s

95th percentile per-packet one-way delay: 137.374 ms

Loss rate: 0.01%

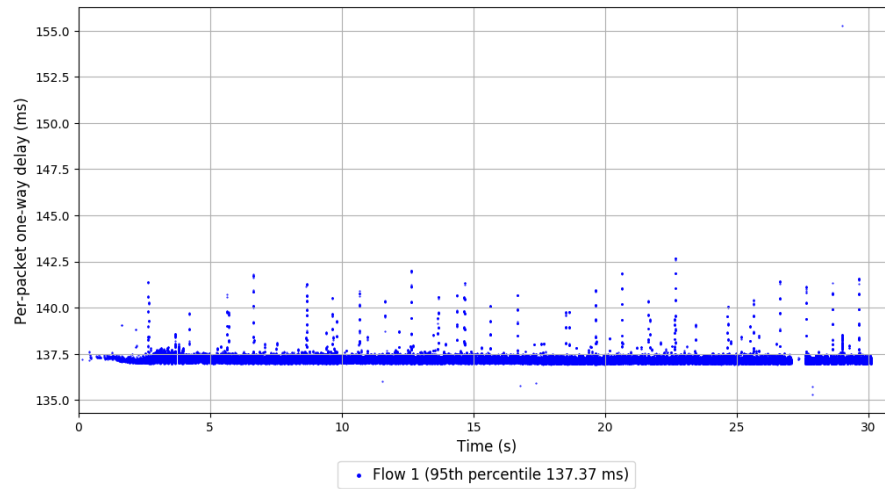
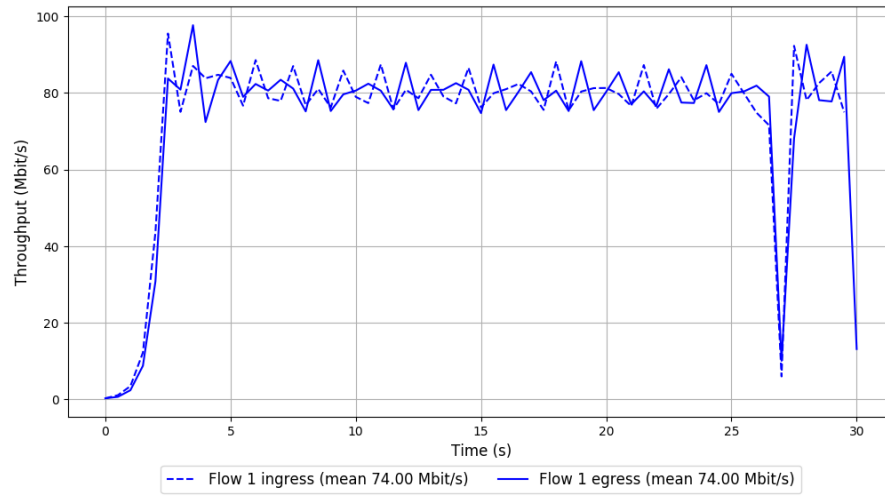
-- Flow 1:

Average throughput: 74.00 Mbit/s

95th percentile per-packet one-way delay: 137.374 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-03 20:52:47

End at: 2018-04-03 20:53:17

Below is generated by plot.py at 2018-04-03 22:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 136.734 ms

Loss rate: 0.00%

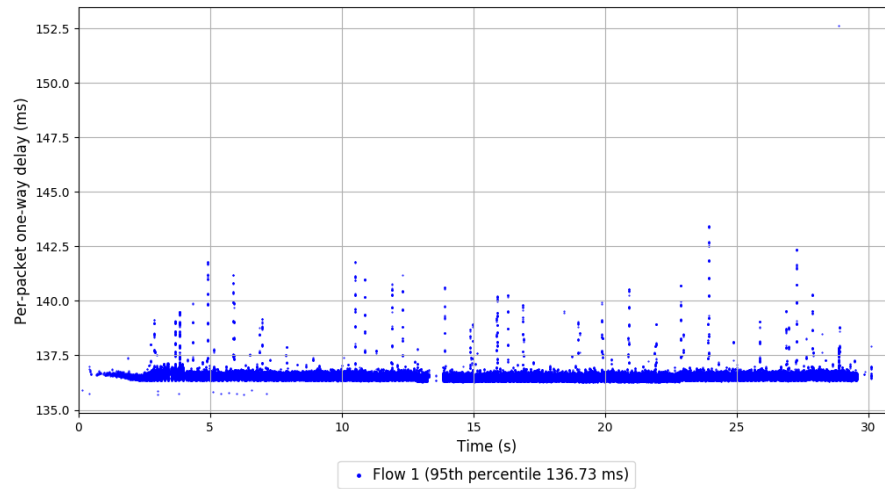
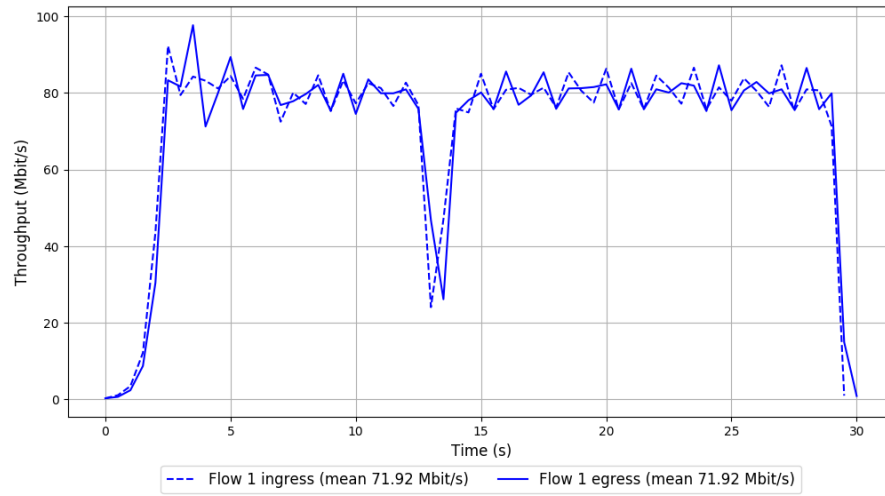
-- Flow 1:

Average throughput: 71.92 Mbit/s

95th percentile per-packet one-way delay: 136.734 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-03 21:08:33

End at: 2018-04-03 21:09:03

Below is generated by plot.py at 2018-04-03 22:42:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.90 Mbit/s

95th percentile per-packet one-way delay: 136.675 ms

Loss rate: 0.00%

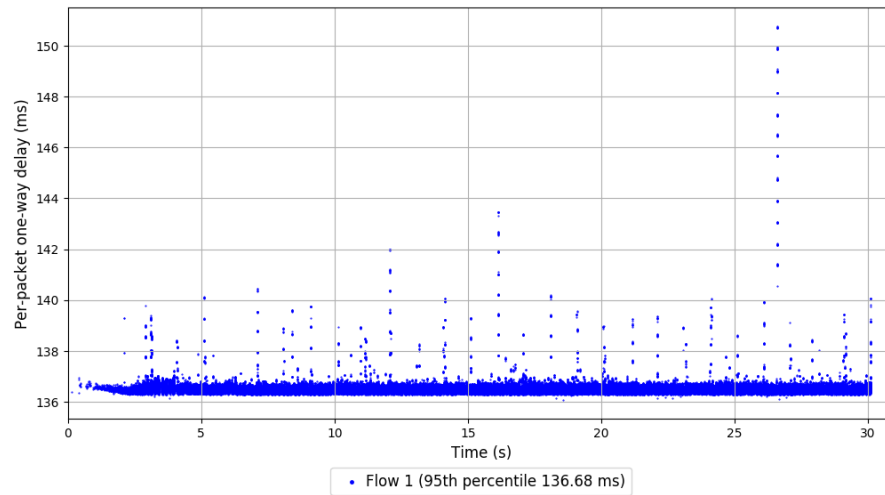
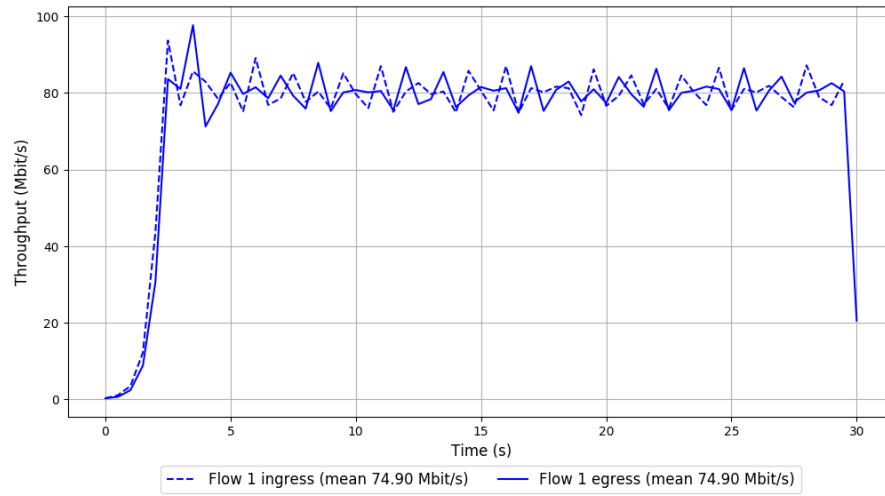
-- Flow 1:

Average throughput: 74.90 Mbit/s

95th percentile per-packet one-way delay: 136.675 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-03 18:38:33

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

Below is generated by plot.py at 2018-04-03 22:42:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.19 Mbit/s

95th percentile per-packet one-way delay: 145.007 ms

Loss rate: 0.00%

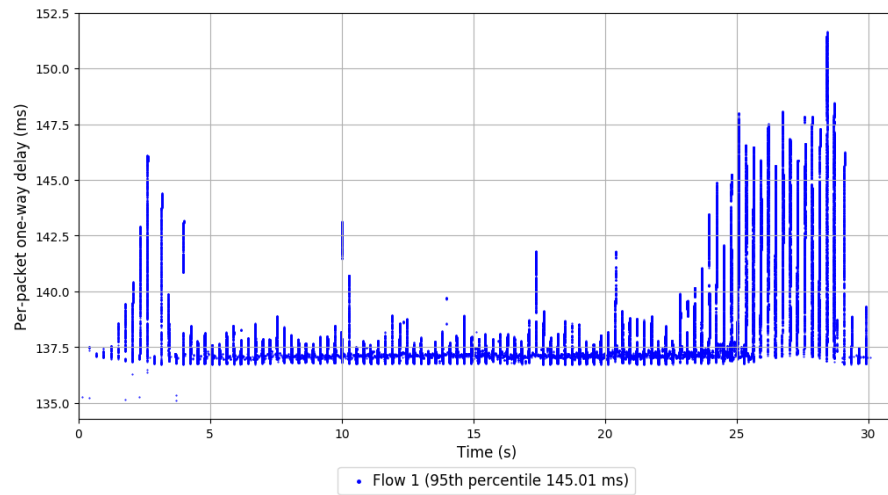
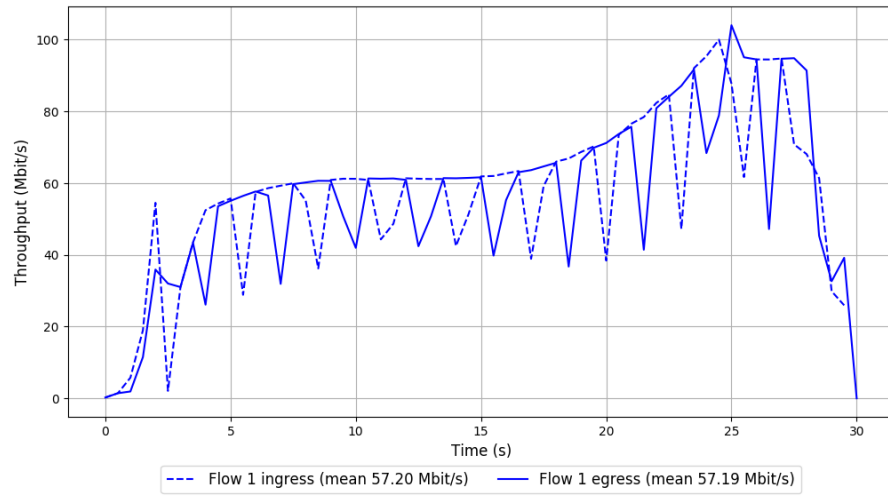
-- Flow 1:

Average throughput: 57.19 Mbit/s

95th percentile per-packet one-way delay: 145.007 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-03 18:54:25

End at: 2018-04-03 18:54:55

Below is generated by plot.py at 2018-04-03 22:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.90 Mbit/s

95th percentile per-packet one-way delay: 145.276 ms

Loss rate: 0.00%

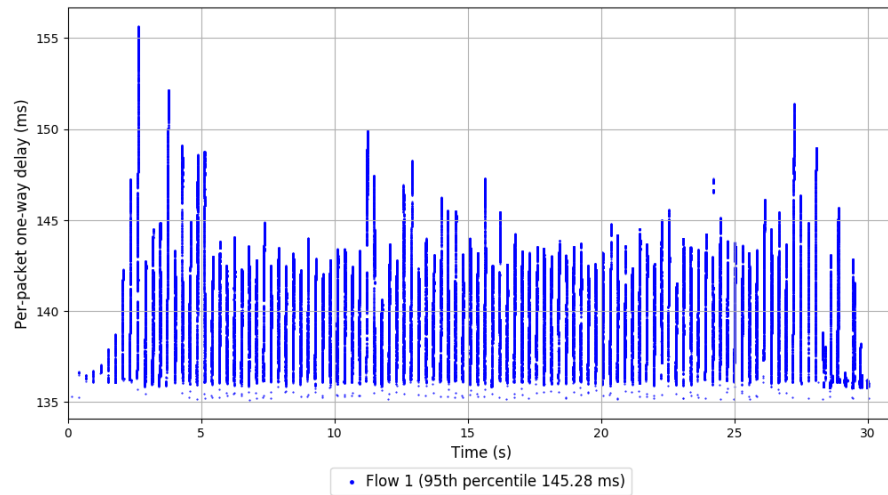
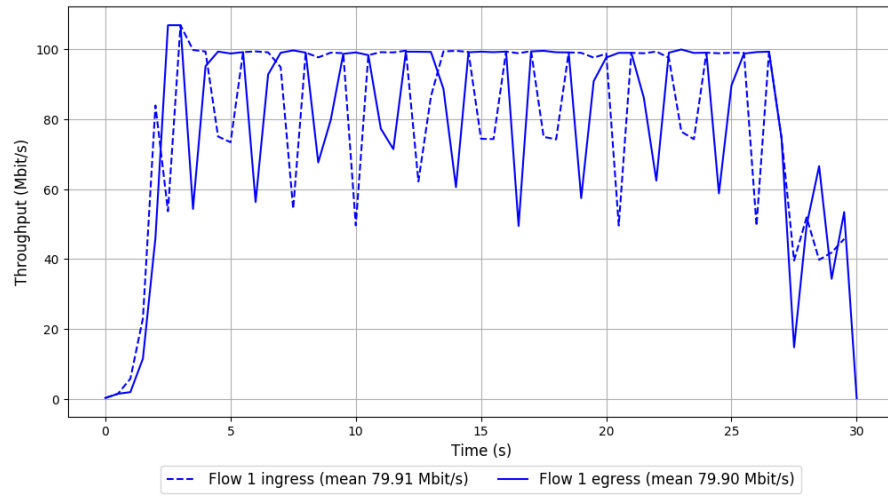
-- Flow 1:

Average throughput: 79.90 Mbit/s

95th percentile per-packet one-way delay: 145.276 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-03 19:10:33

End at: 2018-04-03 19:11:03

Below is generated by plot.py at 2018-04-03 22:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.47 Mbit/s

95th percentile per-packet one-way delay: 144.579 ms

Loss rate: 0.01%

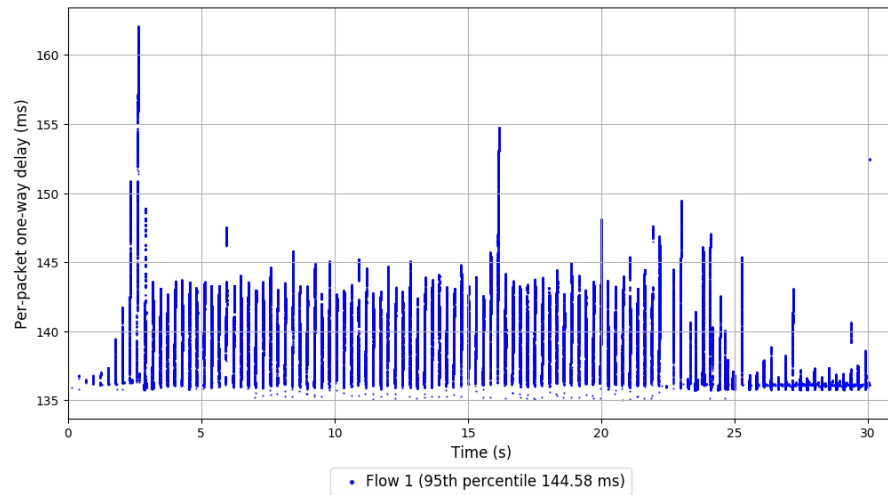
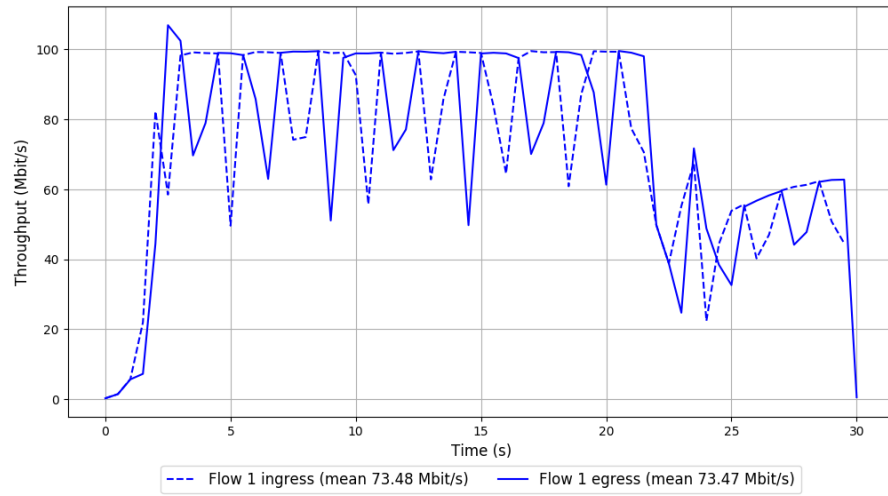
-- Flow 1:

Average throughput: 73.47 Mbit/s

95th percentile per-packet one-way delay: 144.579 ms

Loss rate: 0.01%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-03 19:26:20

End at: 2018-04-03 19:26:50

Below is generated by plot.py at 2018-04-03 22:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 144.672 ms

Loss rate: 0.02%

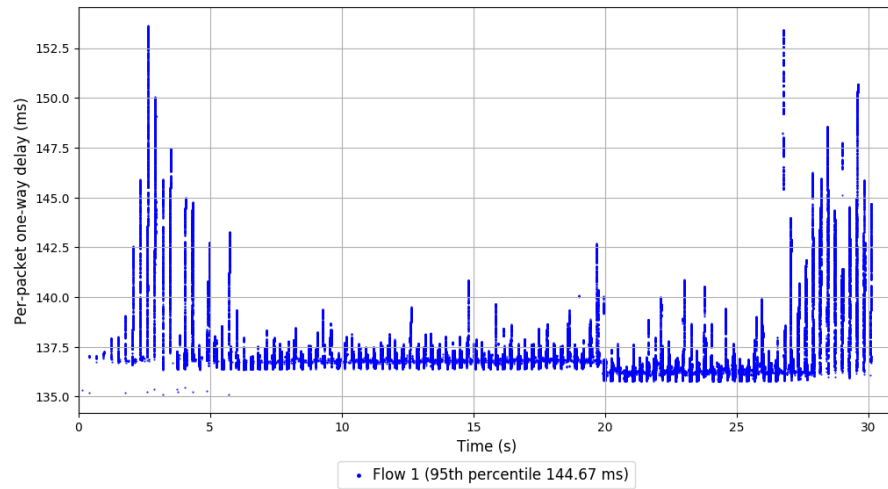
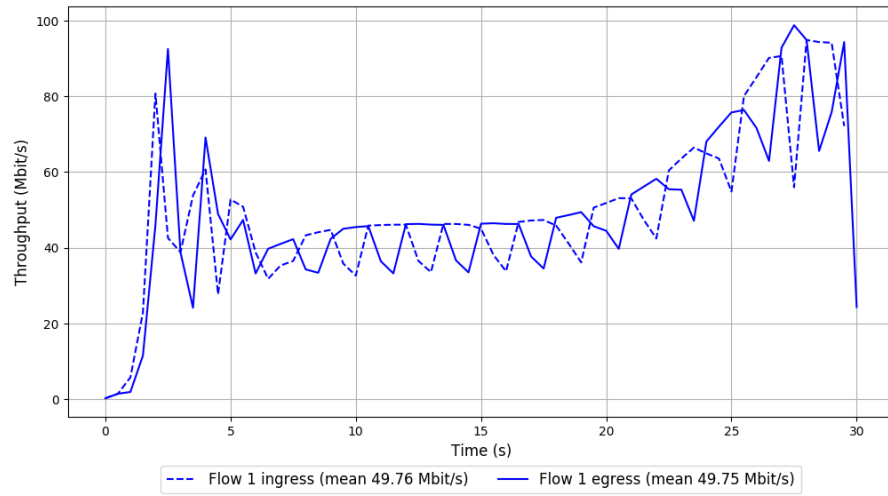
-- Flow 1:

Average throughput: 49.75 Mbit/s

95th percentile per-packet one-way delay: 144.672 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-03 19:42:12

End at: 2018-04-03 19:42:42

Below is generated by plot.py at 2018-04-03 22:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 142.413 ms

Loss rate: 0.00%

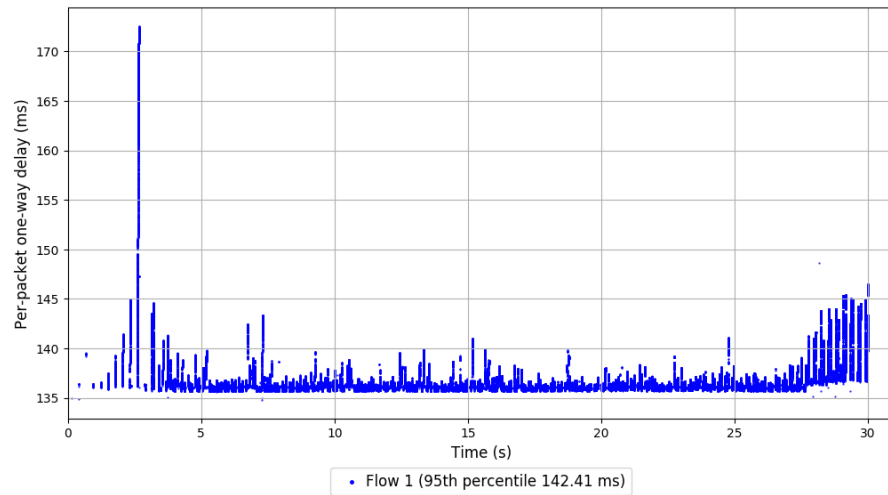
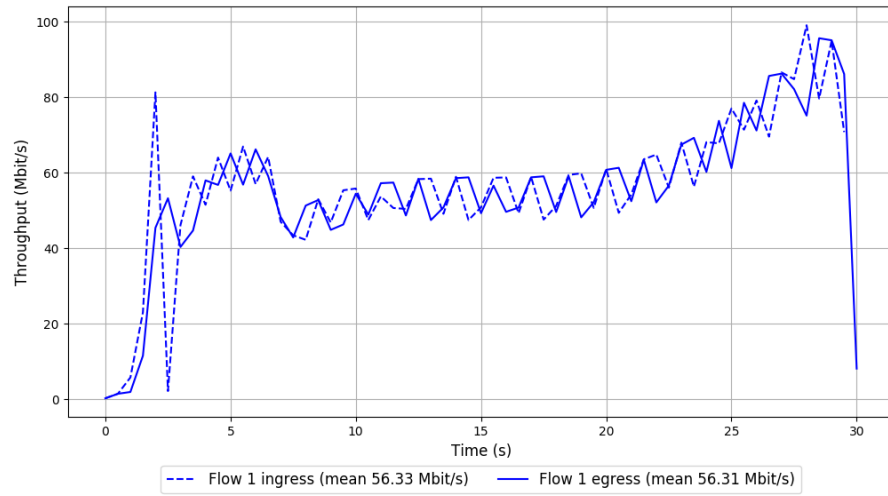
-- Flow 1:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 142.413 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-03 19:58:11

End at: 2018-04-03 19:58:41

Below is generated by plot.py at 2018-04-03 22:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.48 Mbit/s

95th percentile per-packet one-way delay: 142.475 ms

Loss rate: 0.00%

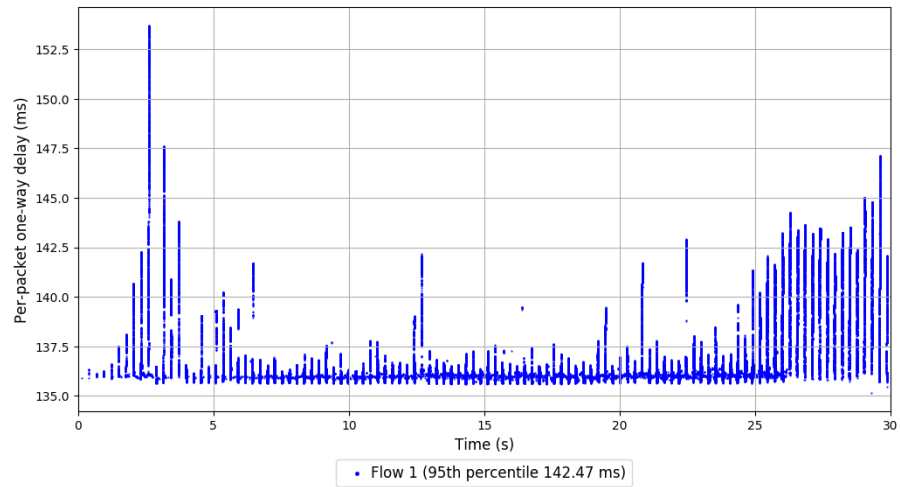
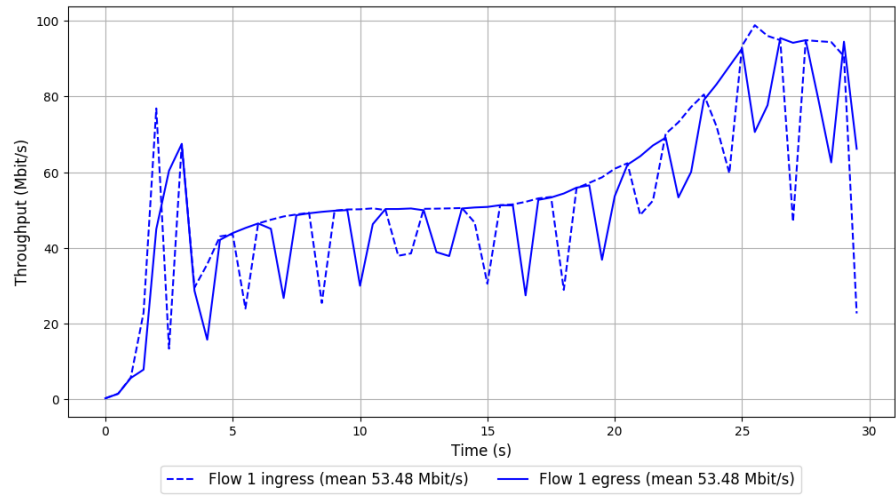
-- Flow 1:

Average throughput: 53.48 Mbit/s

95th percentile per-packet one-way delay: 142.475 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-03 20:14:11

End at: 2018-04-03 20:14:41

Below is generated by plot.py at 2018-04-03 22:43:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 142.417 ms

Loss rate: 0.00%

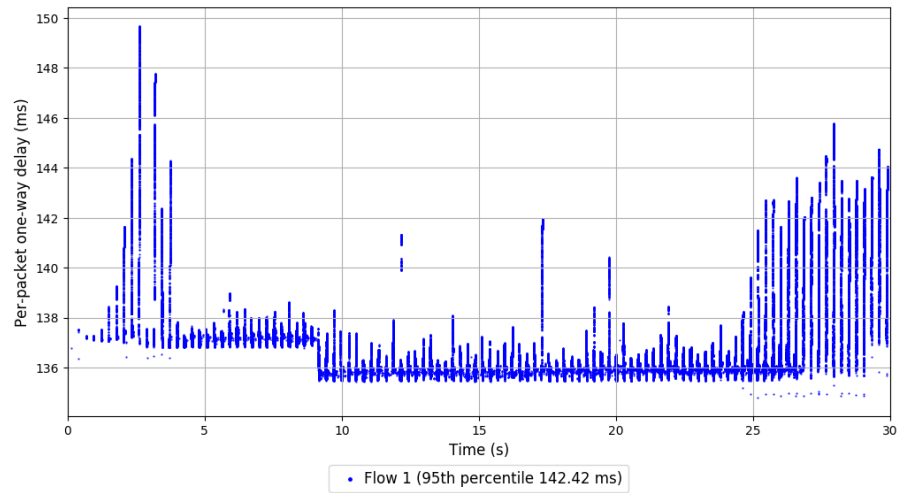
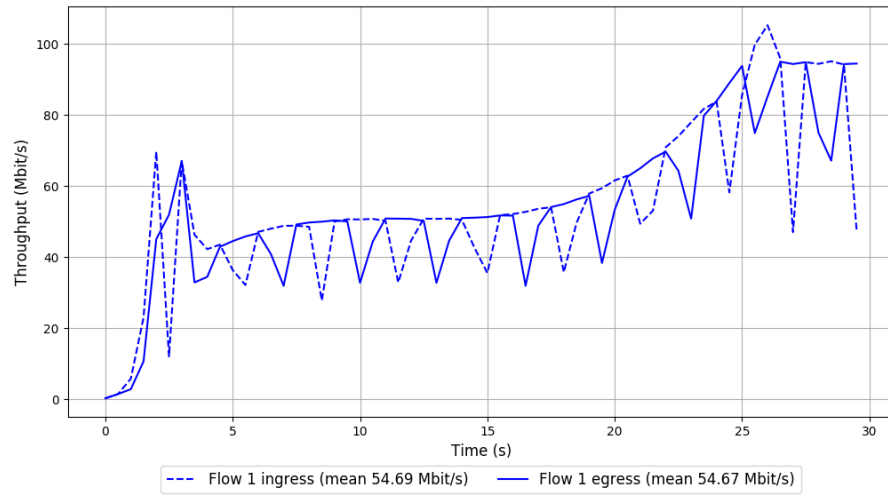
-- Flow 1:

Average throughput: 54.67 Mbit/s

95th percentile per-packet one-way delay: 142.417 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-03 20:30:01

End at: 2018-04-03 20:30:31

Below is generated by plot.py at 2018-04-03 22:43:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 144.772 ms

Loss rate: 0.00%

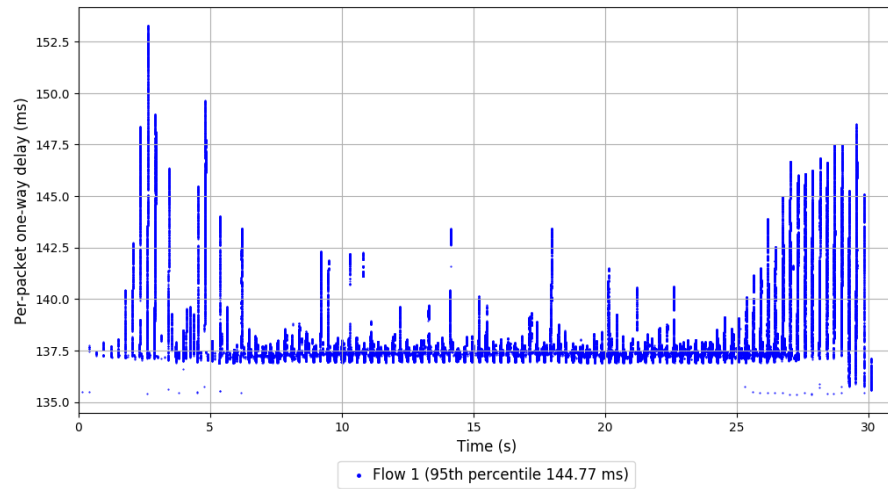
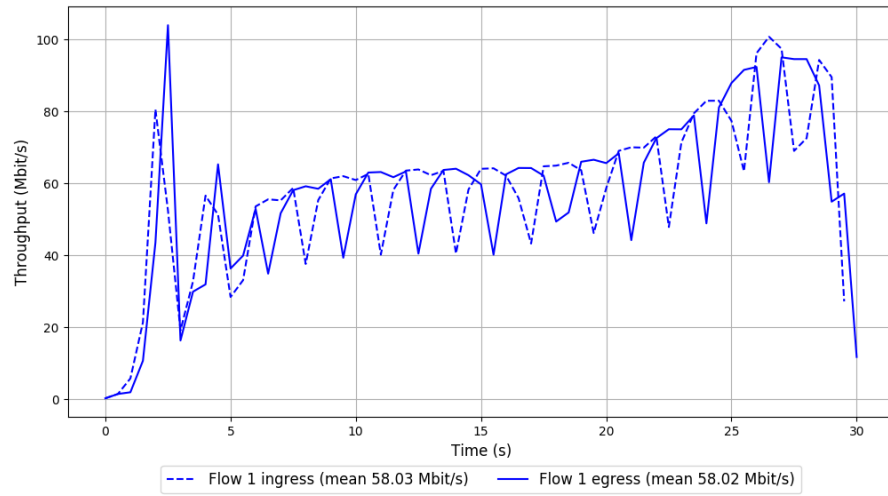
-- Flow 1:

Average throughput: 58.02 Mbit/s

95th percentile per-packet one-way delay: 144.772 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-03 20:45:48

End at: 2018-04-03 20:46:18

Below is generated by plot.py at 2018-04-03 22:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.89 Mbit/s

95th percentile per-packet one-way delay: 143.543 ms

Loss rate: 0.23%

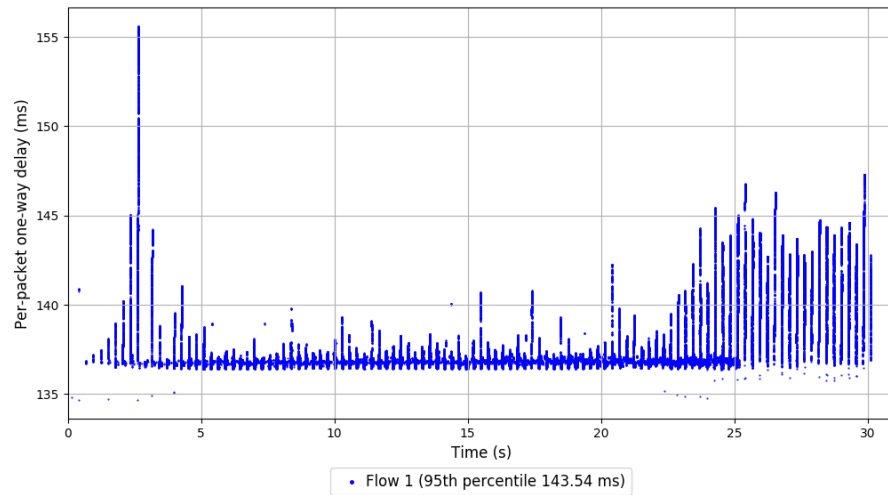
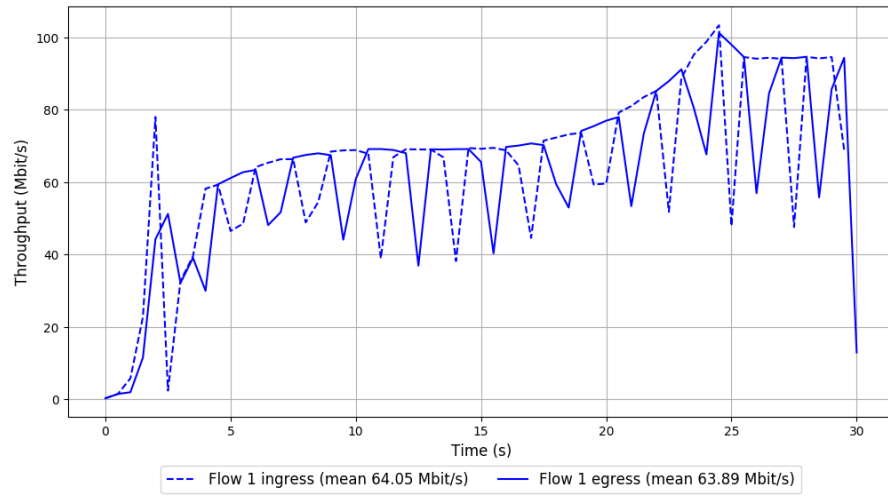
-- Flow 1:

Average throughput: 63.89 Mbit/s

95th percentile per-packet one-way delay: 143.543 ms

Loss rate: 0.23%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-03 21:01:31

End at: 2018-04-03 21:02:01

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.78 Mbit/s

95th percentile per-packet one-way delay: 145.862 ms

Loss rate: 0.00%

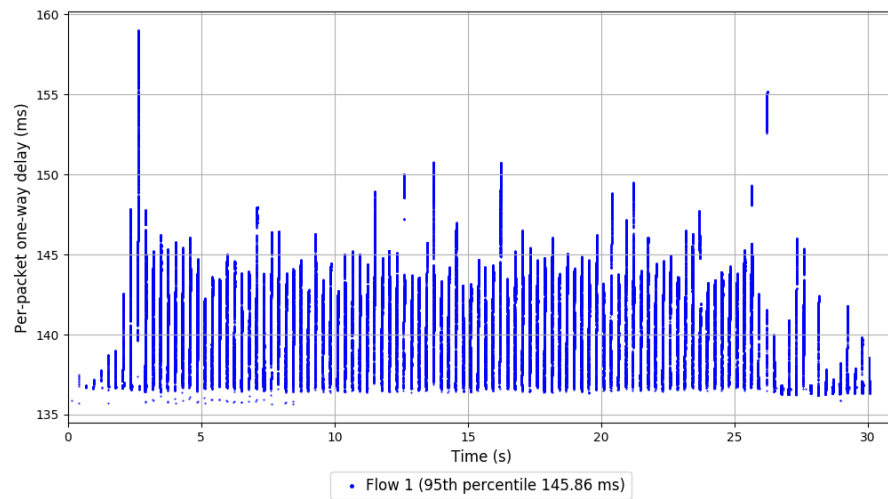
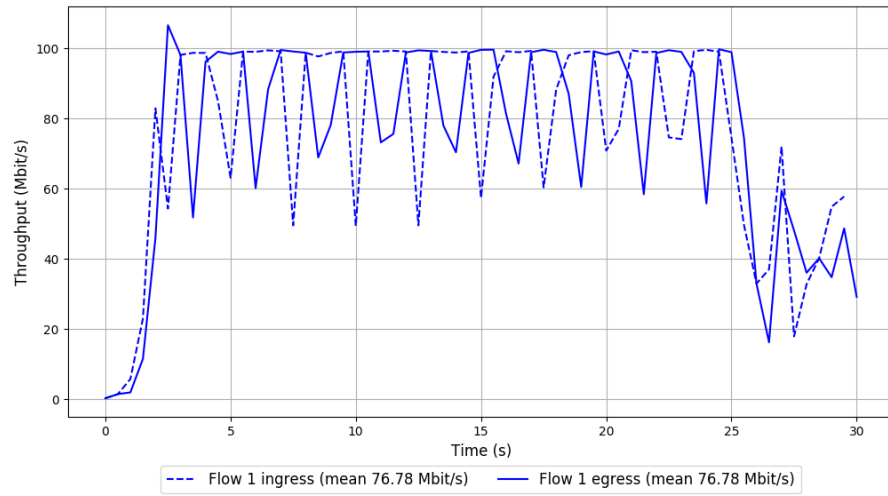
-- Flow 1:

Average throughput: 76.78 Mbit/s

95th percentile per-packet one-way delay: 145.862 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

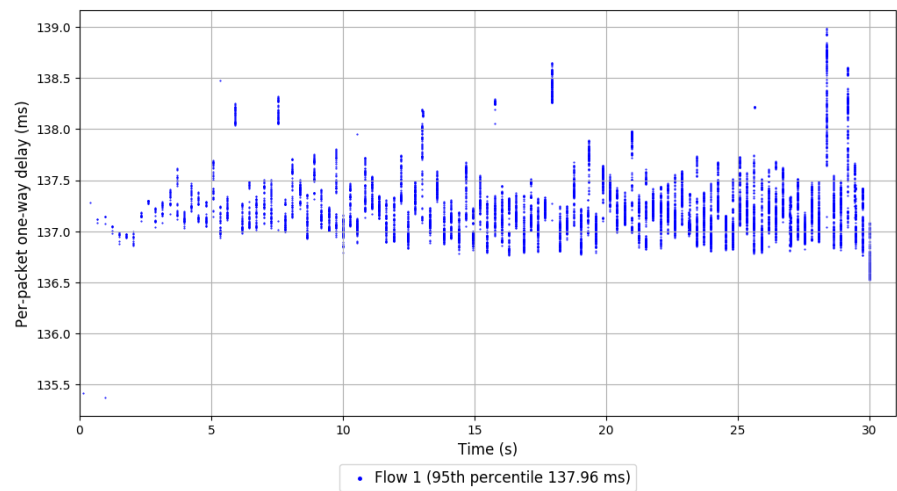
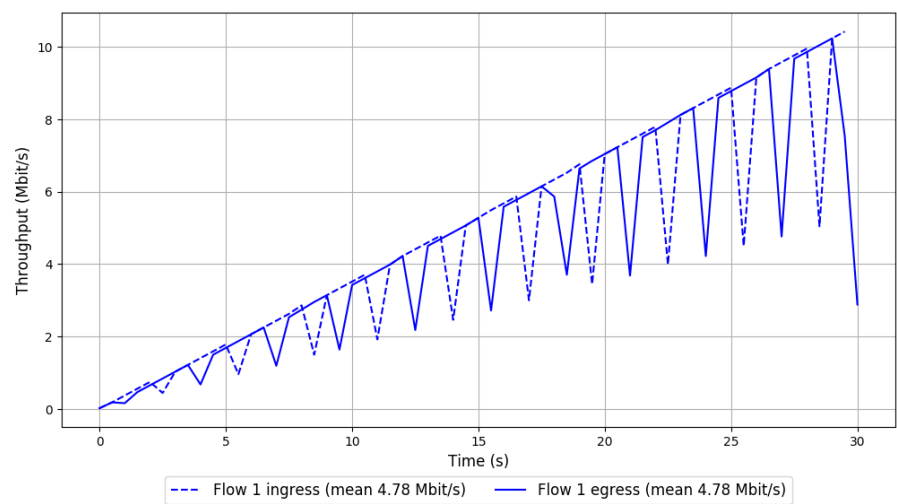


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-03 18:37:50
End at: 2018-04-03 18:38:20

# Below is generated by plot.py at 2018-04-03 22:44:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 137.963 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 137.963 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

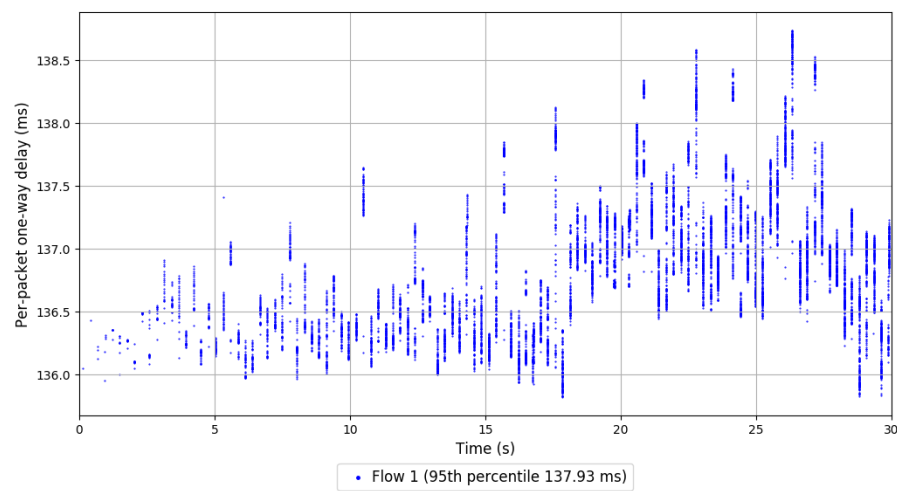
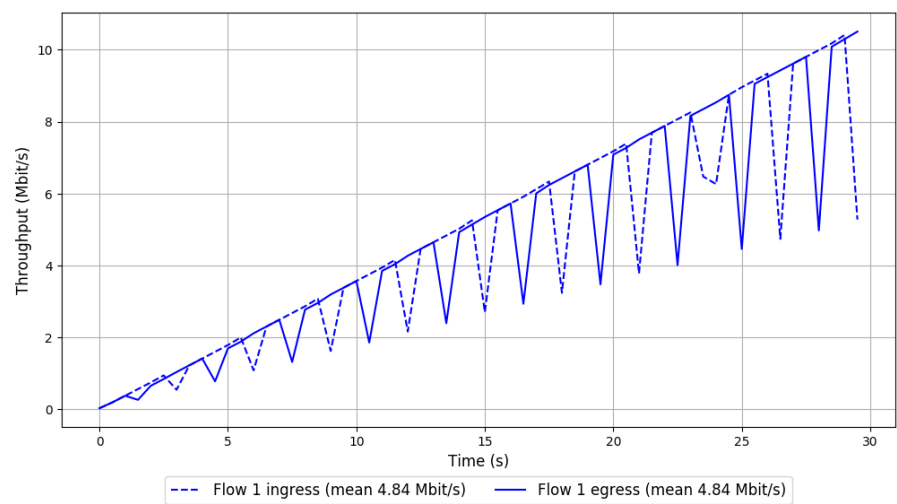


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-03 18:53:42
End at: 2018-04-03 18:54:12

# Below is generated by plot.py at 2018-04-03 22:44:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.934 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-03 19:09:50

End at: 2018-04-03 19:10:20

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.713 ms

Loss rate: 0.00%

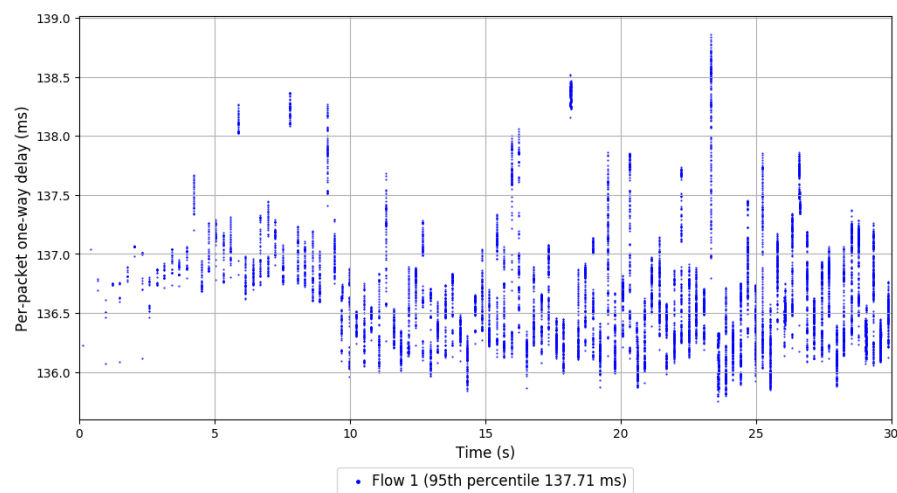
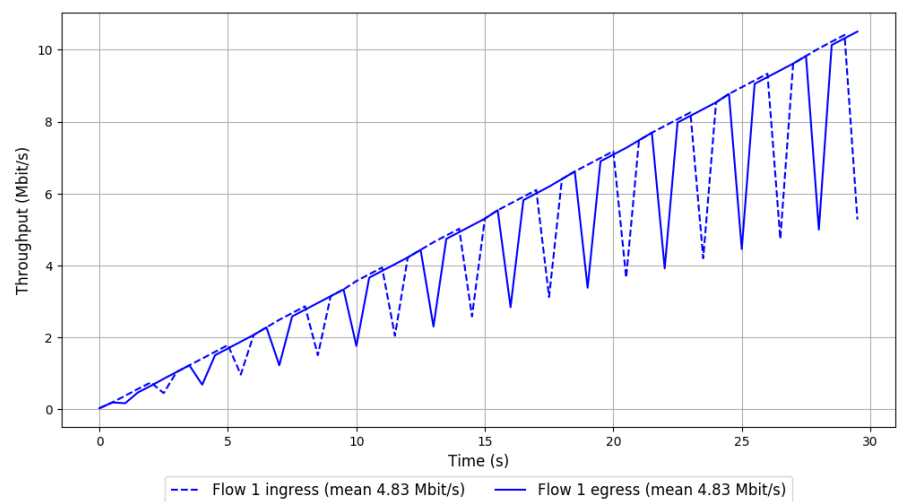
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 137.713 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-03 19:25:38

End at: 2018-04-03 19:26:08

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 137.174 ms

Loss rate: 0.00%

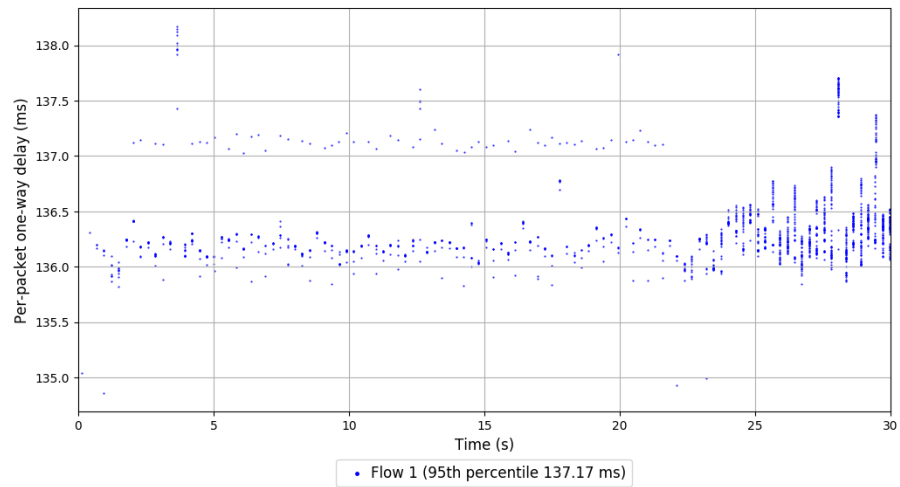
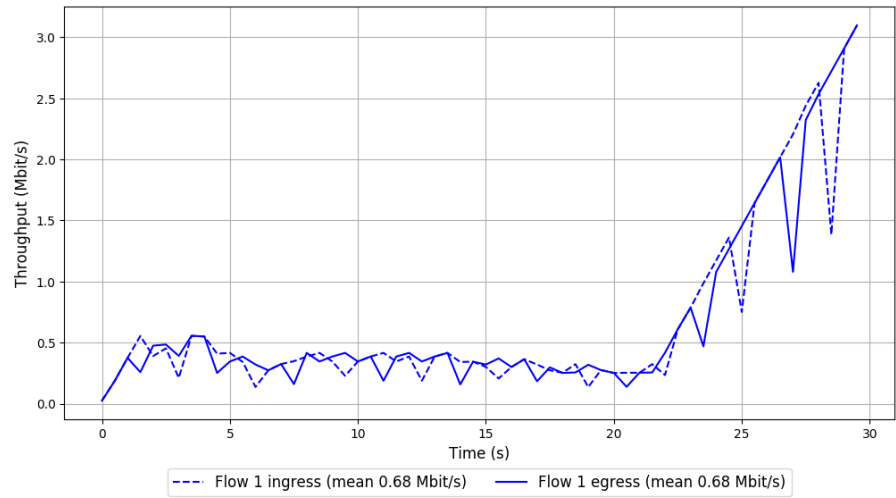
-- Flow 1:

Average throughput: 0.68 Mbit/s

95th percentile per-packet one-way delay: 137.174 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-03 19:41:29

End at: 2018-04-03 19:41:59

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 137.503 ms

Loss rate: 0.00%

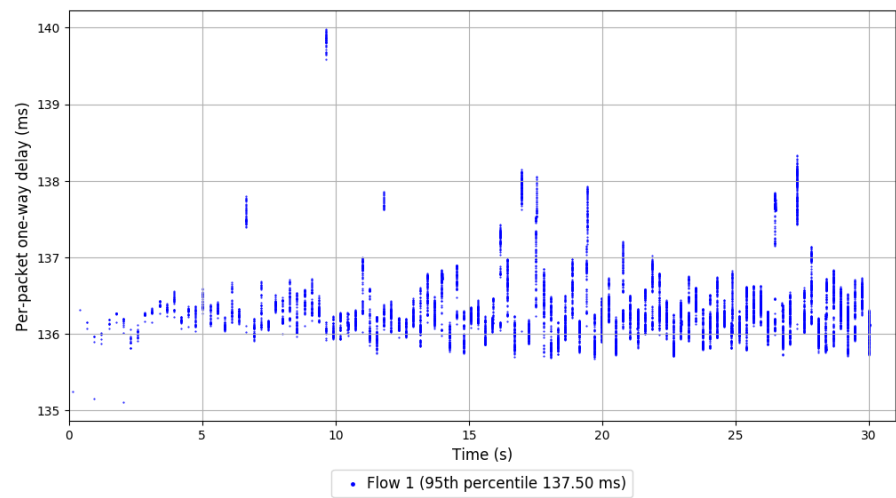
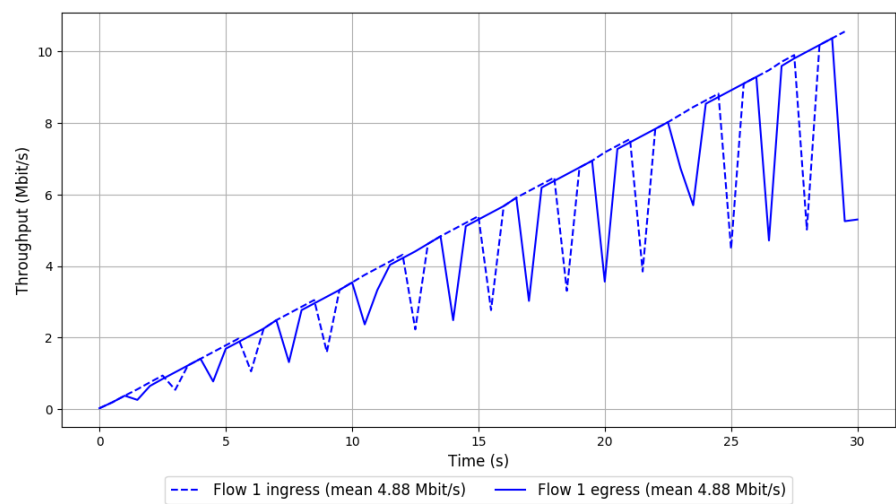
-- Flow 1:

Average throughput: 4.88 Mbit/s

95th percentile per-packet one-way delay: 137.503 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-03 19:57:28

End at: 2018-04-03 19:57:58

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 137.287 ms

Loss rate: 0.00%

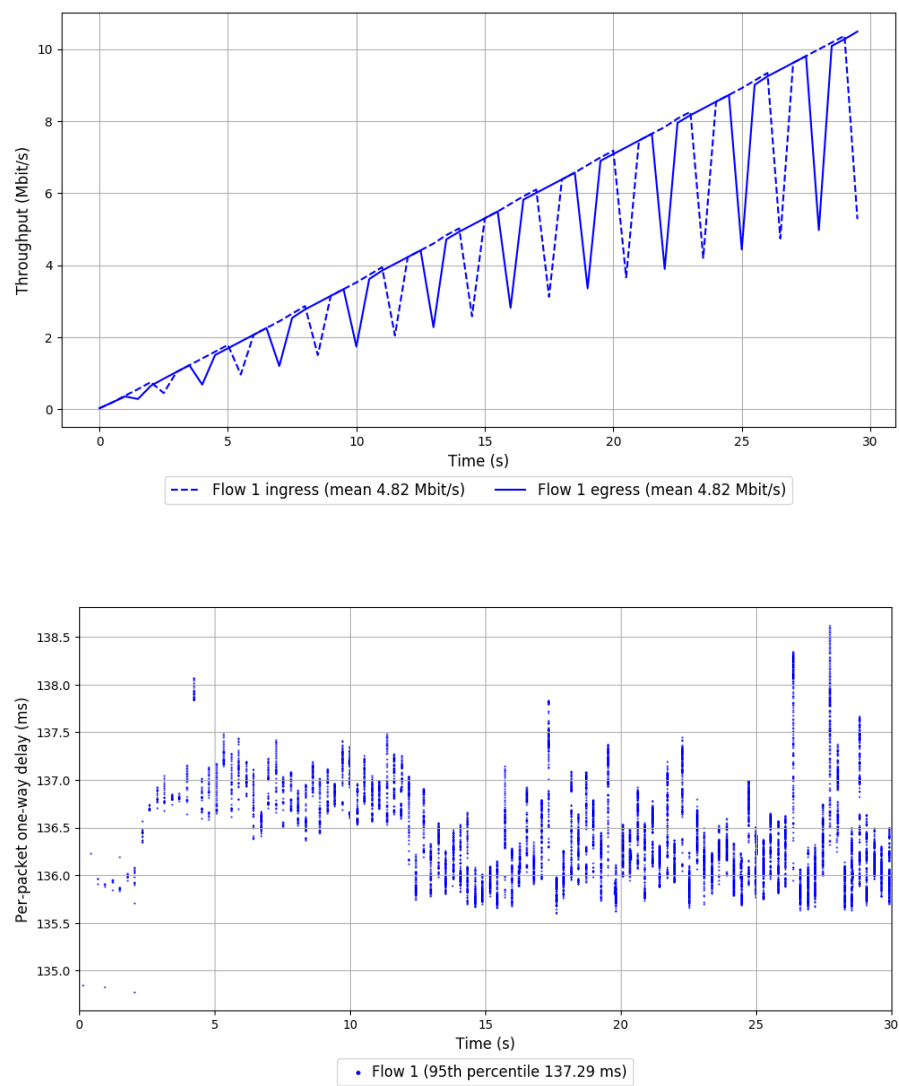
-- Flow 1:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 137.287 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-03 20:13:28

End at: 2018-04-03 20:13:58

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 138.571 ms

Loss rate: 0.00%

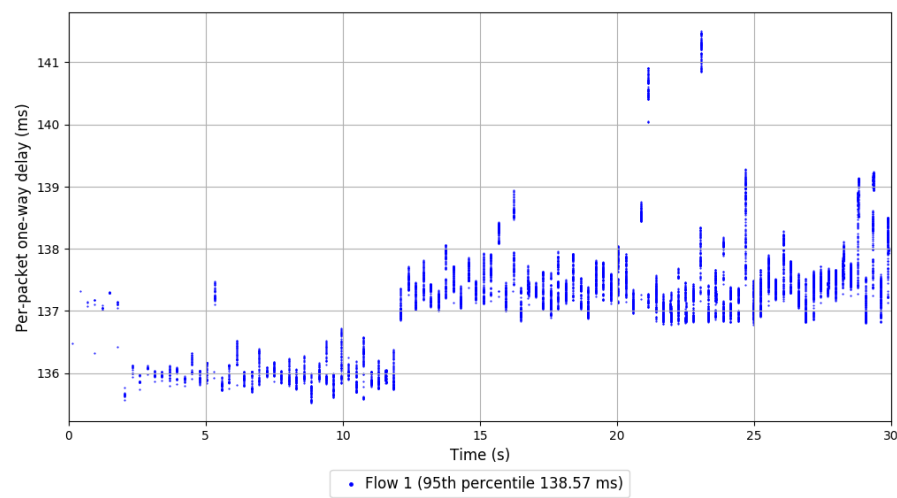
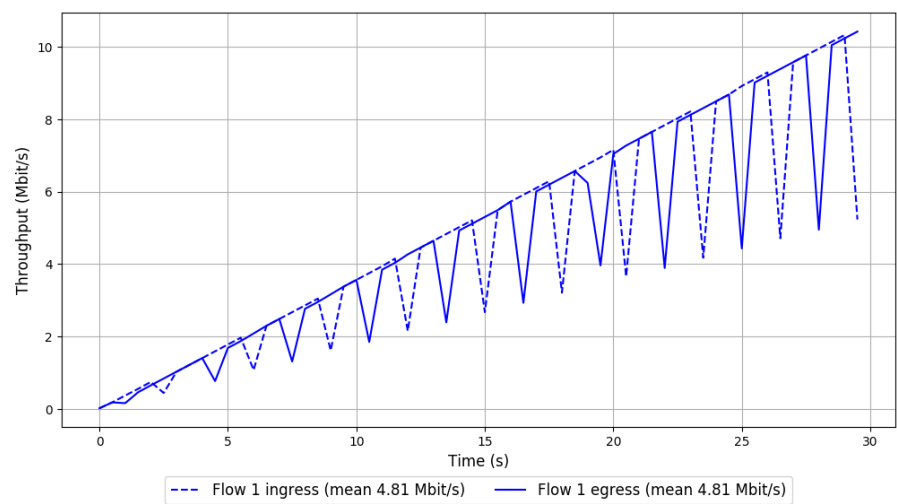
-- Flow 1:

Average throughput: 4.81 Mbit/s

95th percentile per-packet one-way delay: 138.571 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-03 20:29:18

End at: 2018-04-03 20:29:48

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 138.099 ms

Loss rate: 0.00%

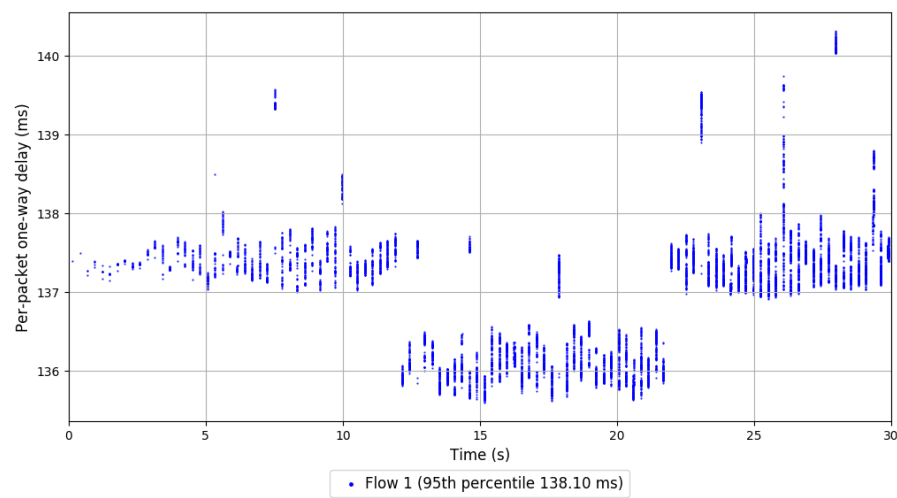
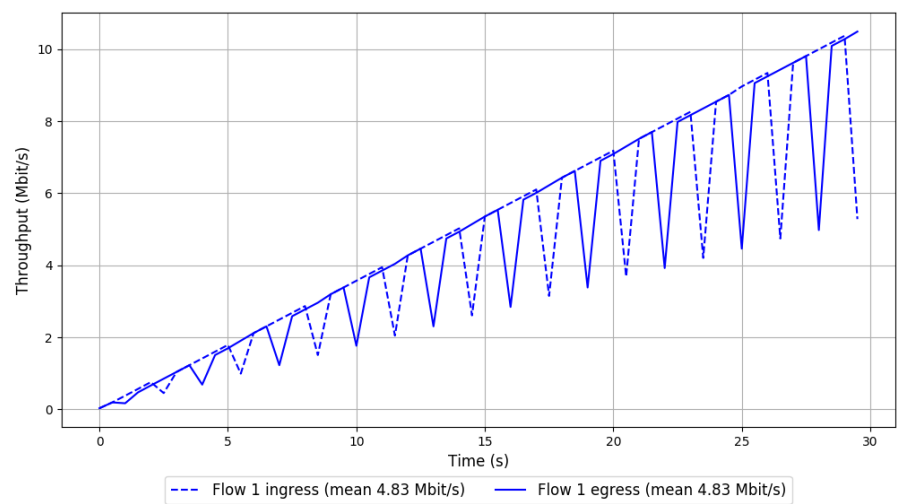
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 138.099 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-03 20:45:05

End at: 2018-04-03 20:45:35

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.816 ms

Loss rate: 0.00%

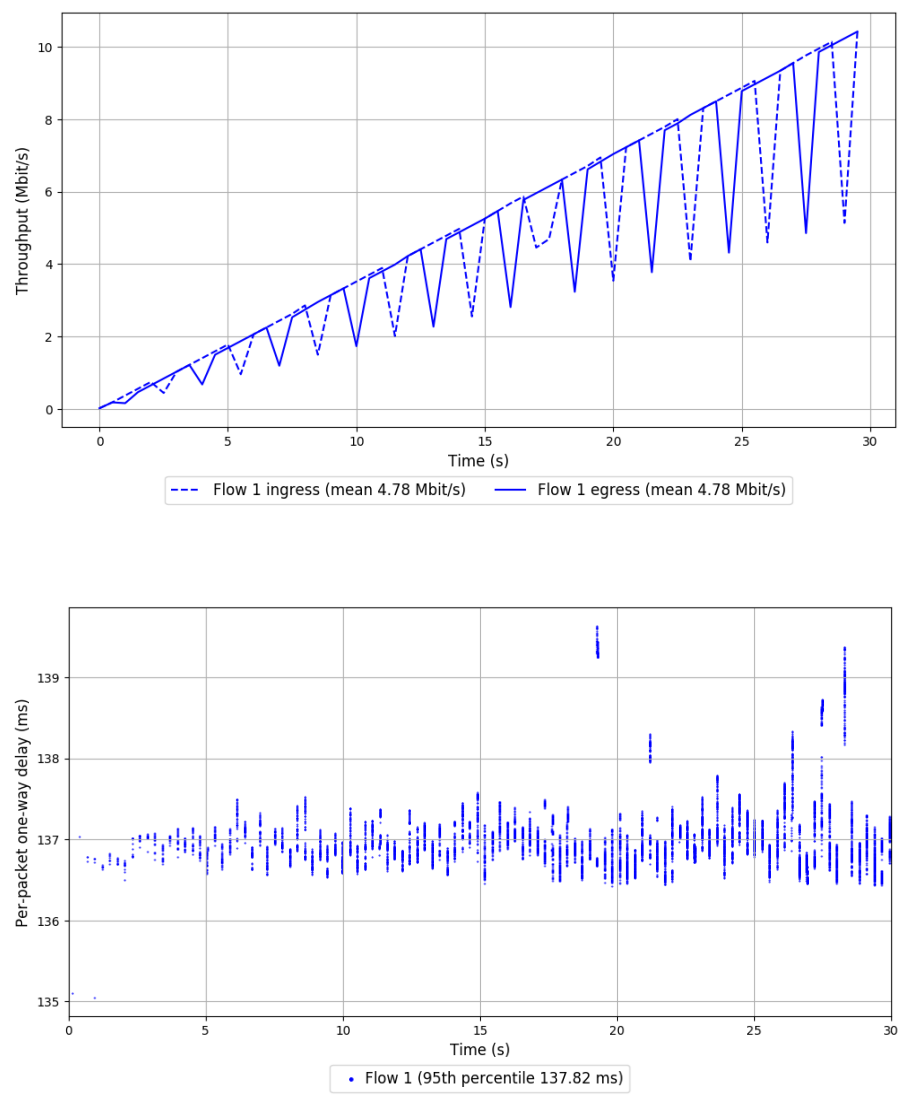
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 137.816 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-03 21:00:48

End at: 2018-04-03 21:01:19

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.746 ms

Loss rate: 0.00%

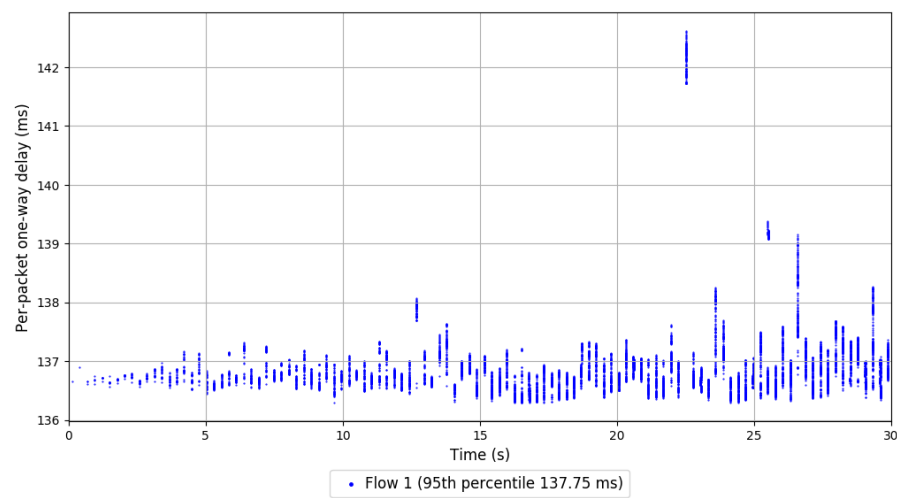
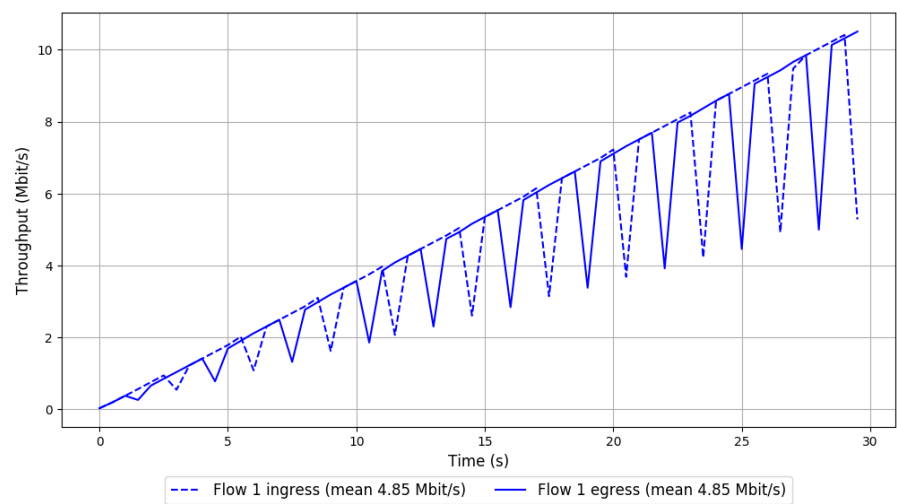
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.746 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

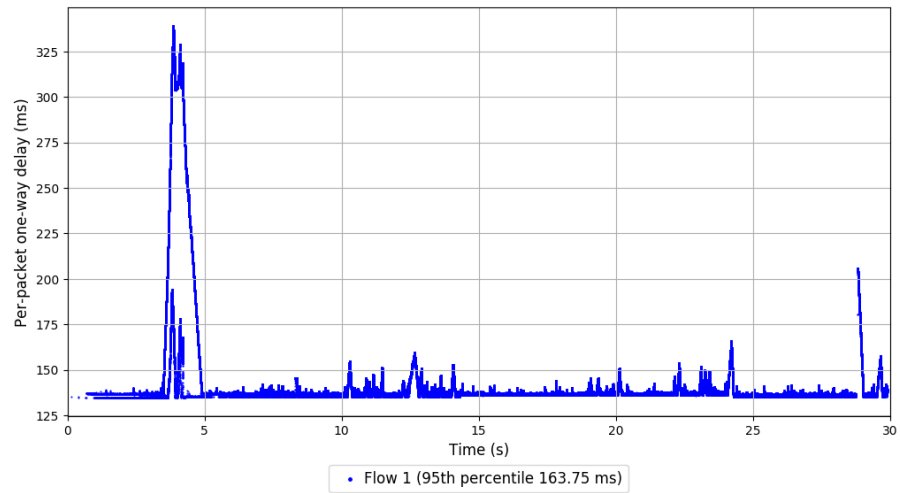
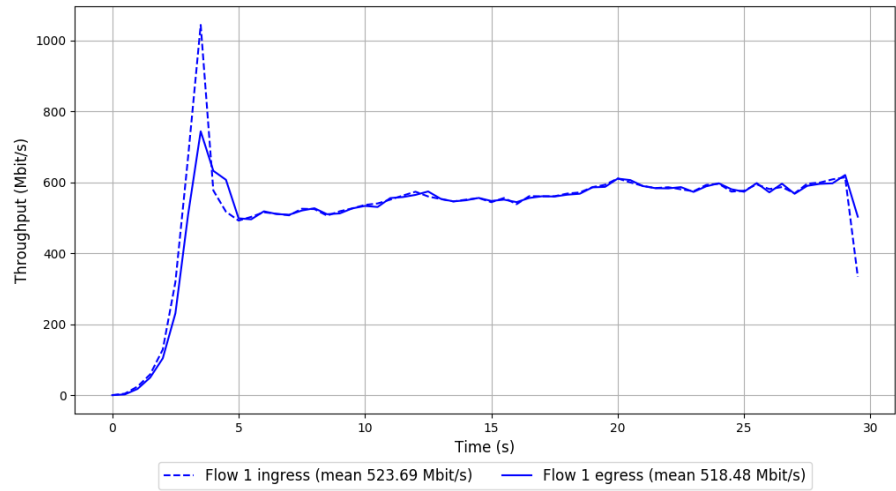


```
Run 1: Statistics of PCC

Start at: 2018-04-03 18:40:25
End at: 2018-04-03 18:40:55

# Below is generated by plot.py at 2018-04-03 22:54:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 518.48 Mbit/s
95th percentile per-packet one-way delay: 163.749 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 518.48 Mbit/s
95th percentile per-packet one-way delay: 163.749 ms
Loss rate: 0.98%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-03 18:56:18

End at: 2018-04-03 18:56:48

Below is generated by plot.py at 2018-04-03 22:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 504.31 Mbit/s

95th percentile per-packet one-way delay: 216.912 ms

Loss rate: 1.42%

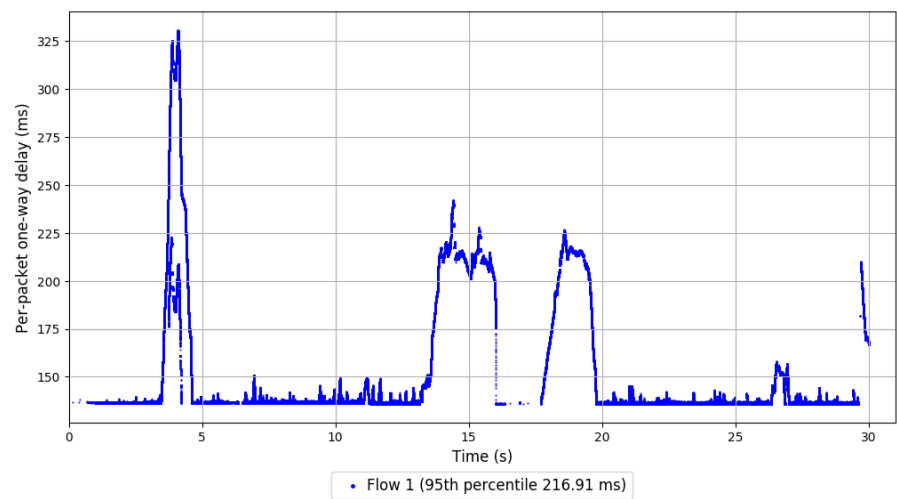
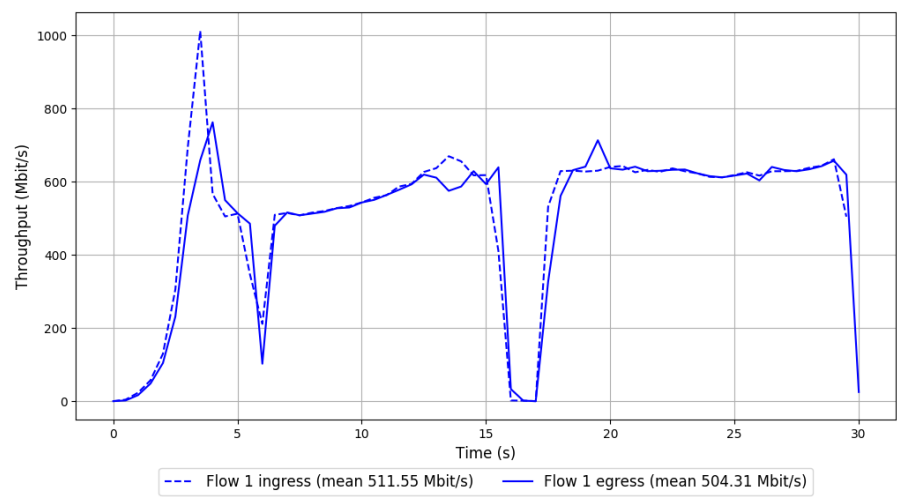
-- Flow 1:

Average throughput: 504.31 Mbit/s

95th percentile per-packet one-way delay: 216.912 ms

Loss rate: 1.42%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-03 19:12:26

End at: 2018-04-03 19:12:57

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.20 Mbit/s

95th percentile per-packet one-way delay: 217.042 ms

Loss rate: 2.17%

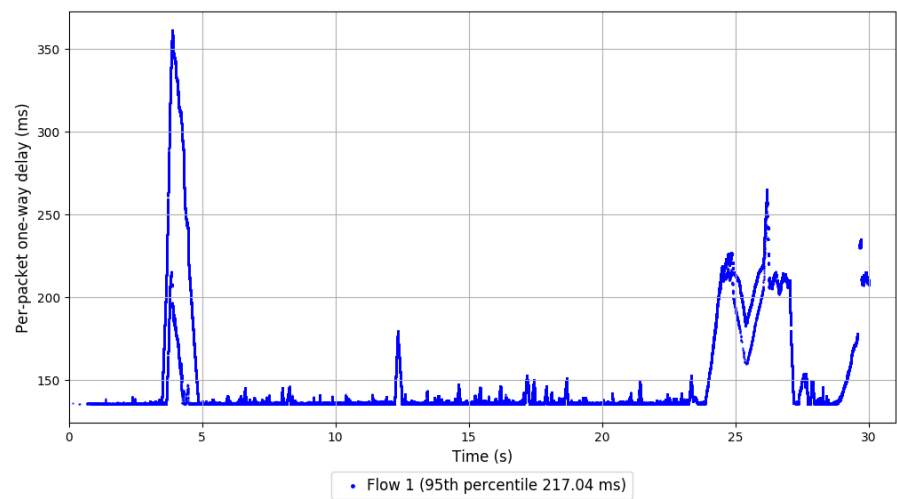
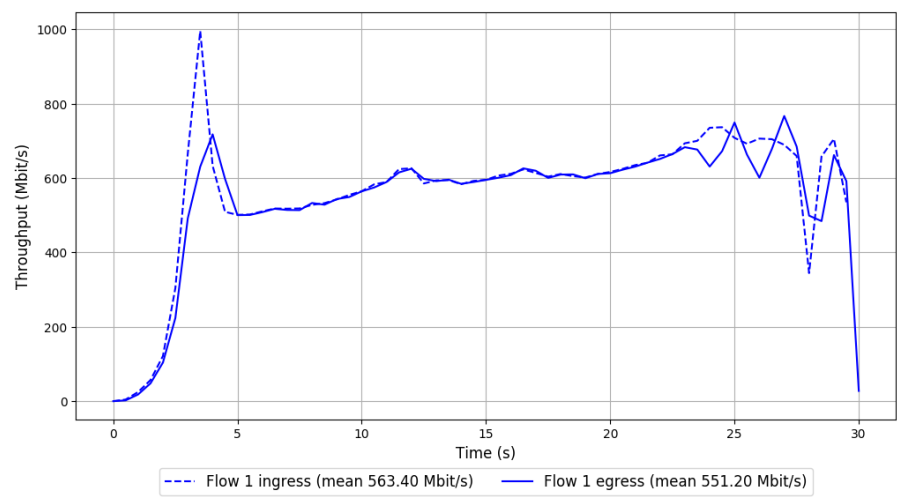
-- Flow 1:

Average throughput: 551.20 Mbit/s

95th percentile per-packet one-way delay: 217.042 ms

Loss rate: 2.17%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-03 19:28:12

End at: 2018-04-03 19:28:42

Below is generated by plot.py at 2018-04-03 22:55:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.98 Mbit/s

95th percentile per-packet one-way delay: 246.759 ms

Loss rate: 1.20%

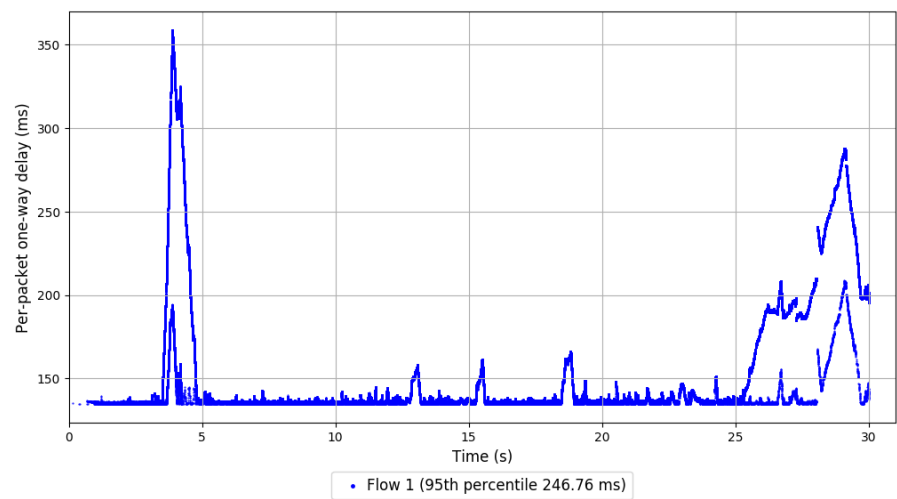
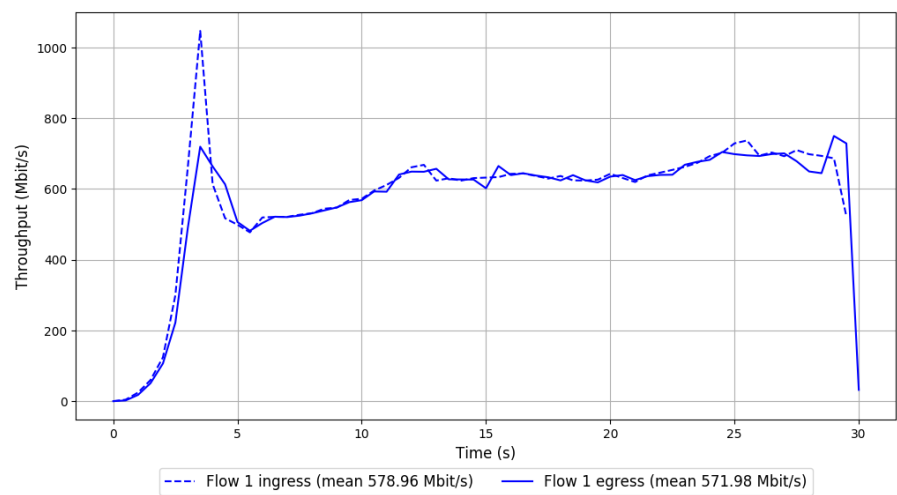
-- Flow 1:

Average throughput: 571.98 Mbit/s

95th percentile per-packet one-way delay: 246.759 ms

Loss rate: 1.20%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-03 19:43:59

End at: 2018-04-03 19:44:29

Below is generated by plot.py at 2018-04-03 22:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 574.40 Mbit/s

95th percentile per-packet one-way delay: 169.314 ms

Loss rate: 0.99%

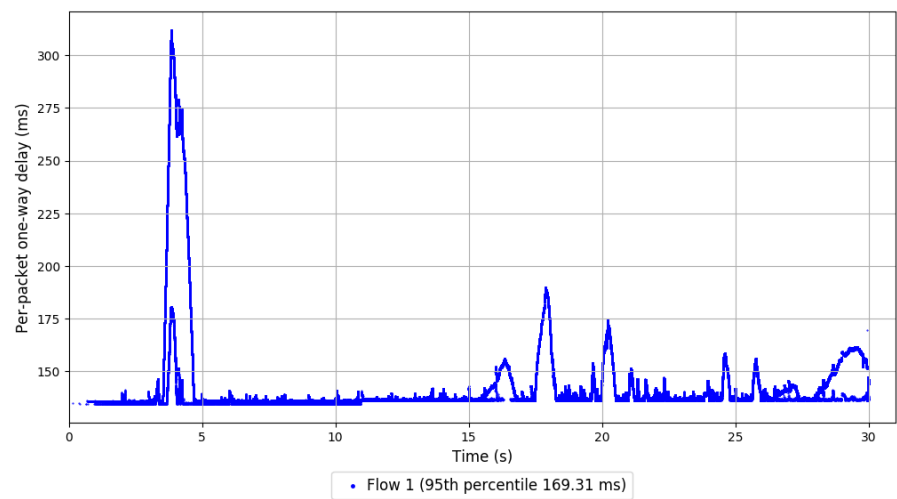
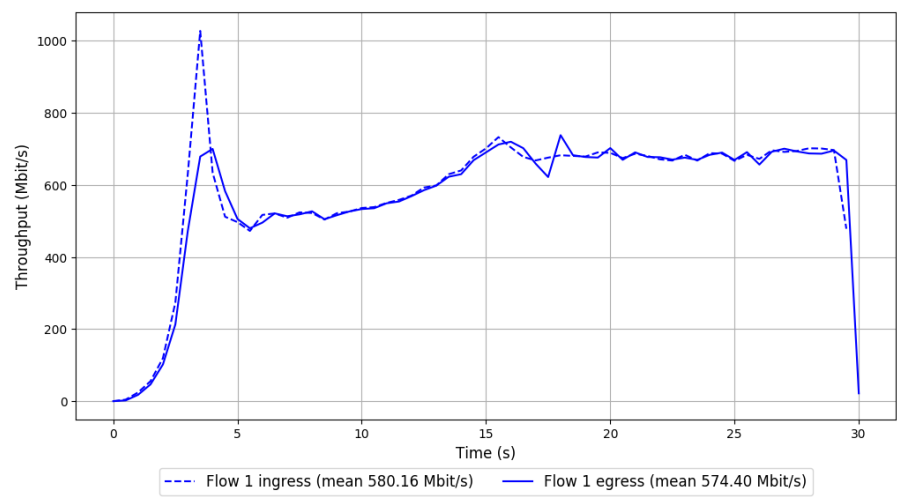
-- Flow 1:

Average throughput: 574.40 Mbit/s

95th percentile per-packet one-way delay: 169.314 ms

Loss rate: 0.99%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-03 20:00:02

End at: 2018-04-03 20:00:32

Below is generated by plot.py at 2018-04-03 22:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.83 Mbit/s

95th percentile per-packet one-way delay: 202.274 ms

Loss rate: 1.17%

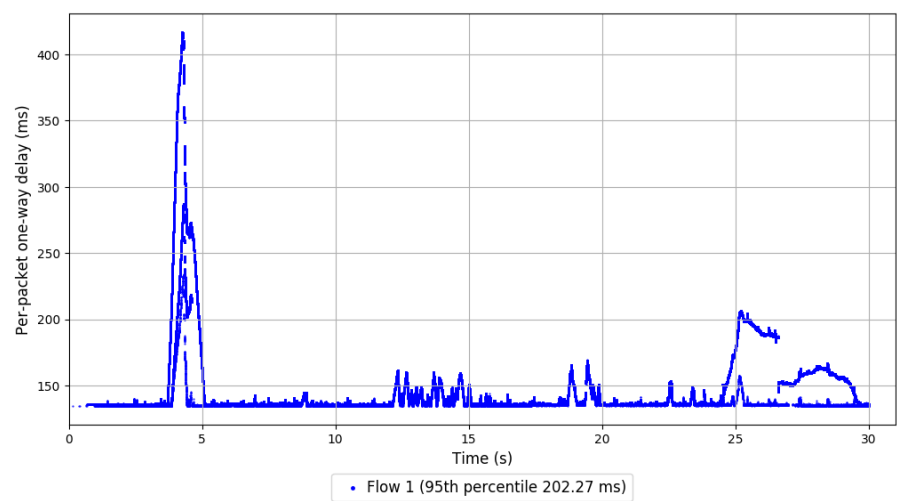
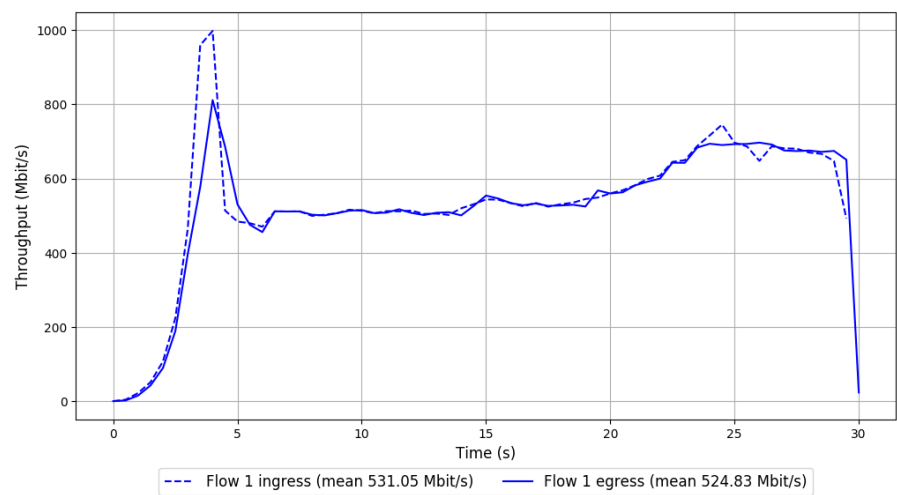
-- Flow 1:

Average throughput: 524.83 Mbit/s

95th percentile per-packet one-way delay: 202.274 ms

Loss rate: 1.17%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

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

End at: 2018-04-03 20:16:34

Below is generated by plot.py at 2018-04-03 22:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.76 Mbit/s

95th percentile per-packet one-way delay: 198.956 ms

Loss rate: 1.11%

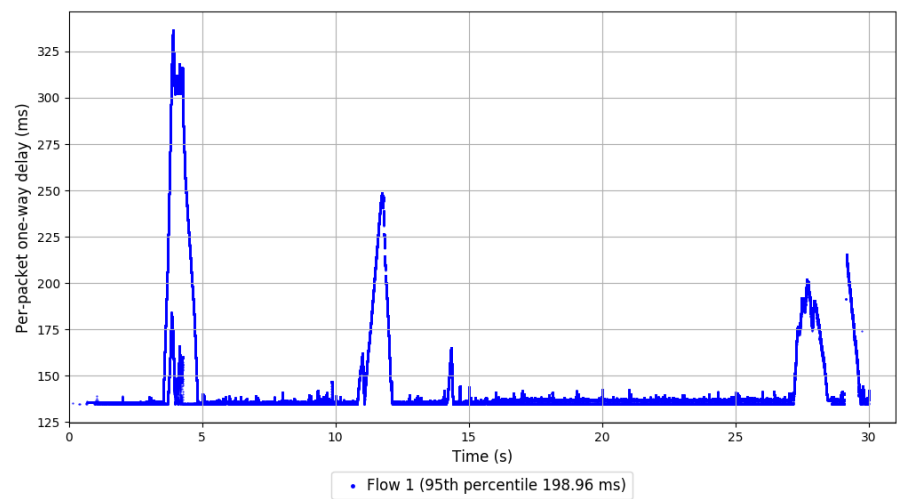
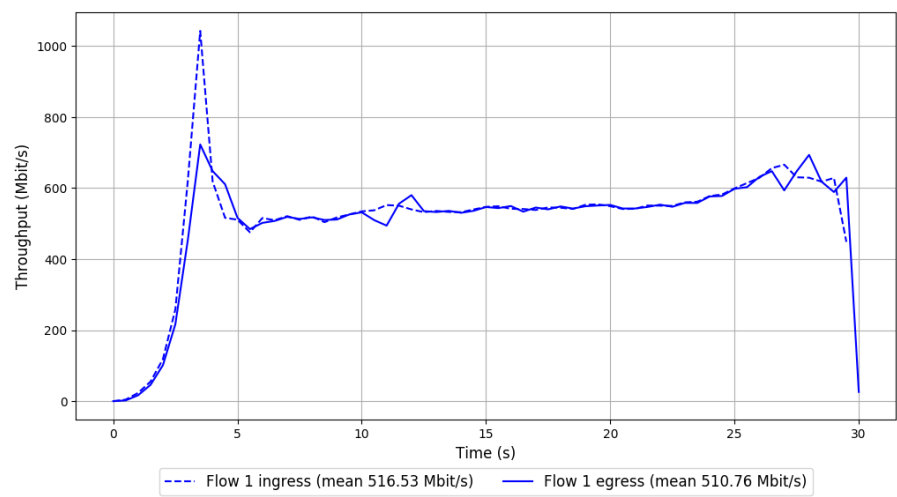
-- Flow 1:

Average throughput: 510.76 Mbit/s

95th percentile per-packet one-way delay: 198.956 ms

Loss rate: 1.11%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-03 20:31:52

End at: 2018-04-03 20:32:22

Below is generated by plot.py at 2018-04-03 22:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.29 Mbit/s

95th percentile per-packet one-way delay: 212.981 ms

Loss rate: 1.61%

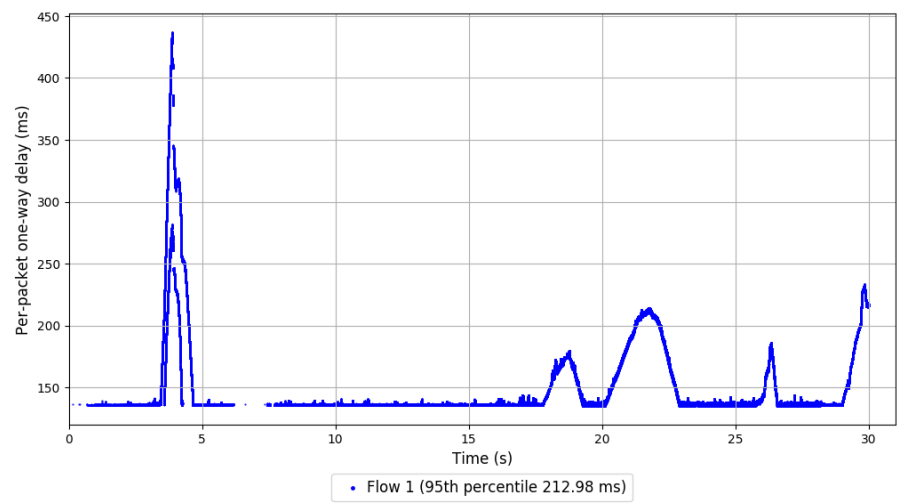
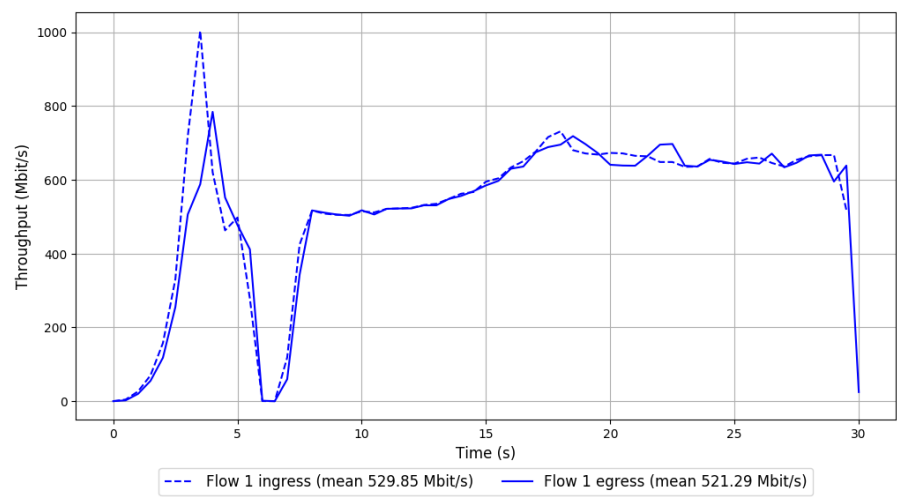
-- Flow 1:

Average throughput: 521.29 Mbit/s

95th percentile per-packet one-way delay: 212.981 ms

Loss rate: 1.61%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-03 20:47:39

End at: 2018-04-03 20:48:10

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 568.79 Mbit/s

95th percentile per-packet one-way delay: 192.135 ms

Loss rate: 1.00%

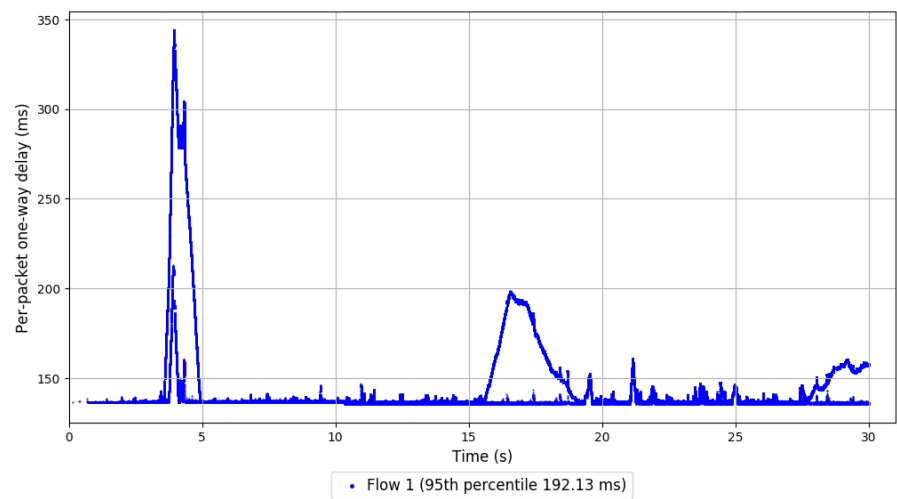
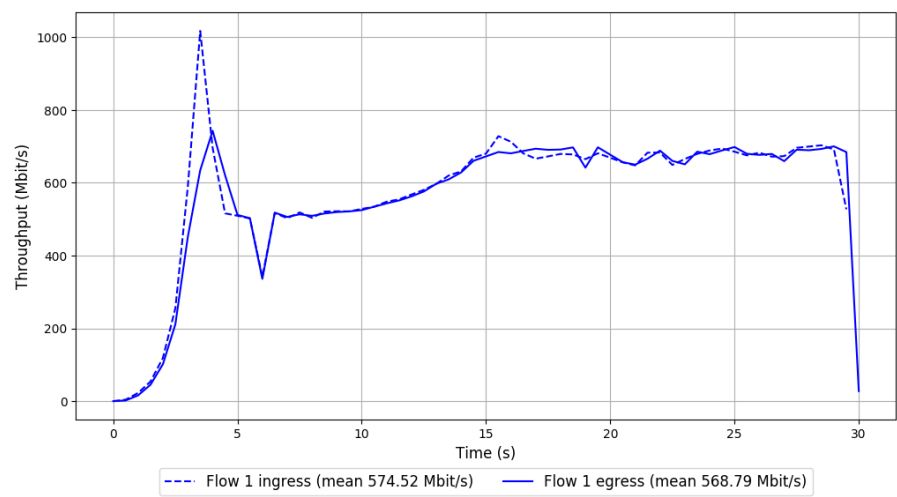
-- Flow 1:

Average throughput: 568.79 Mbit/s

95th percentile per-packet one-way delay: 192.135 ms

Loss rate: 1.00%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

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

End at: 2018-04-03 21:03:56

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.06 Mbit/s

95th percentile per-packet one-way delay: 155.095 ms

Loss rate: 1.64%

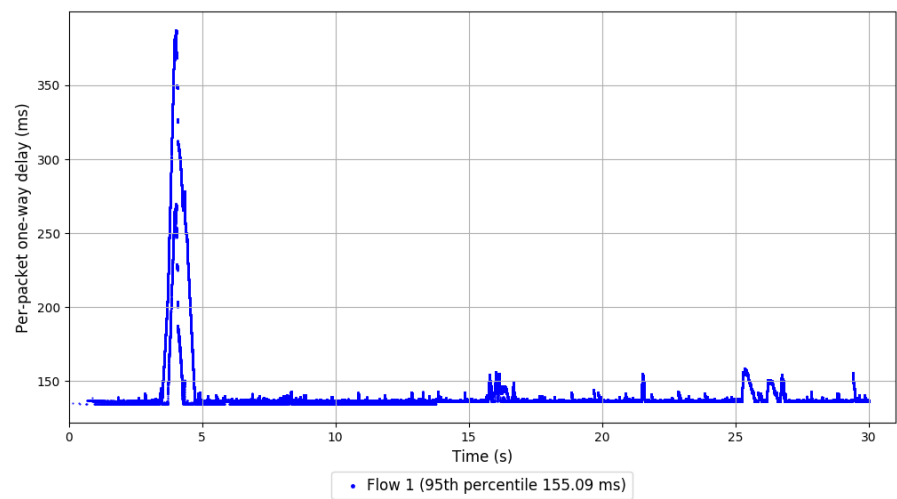
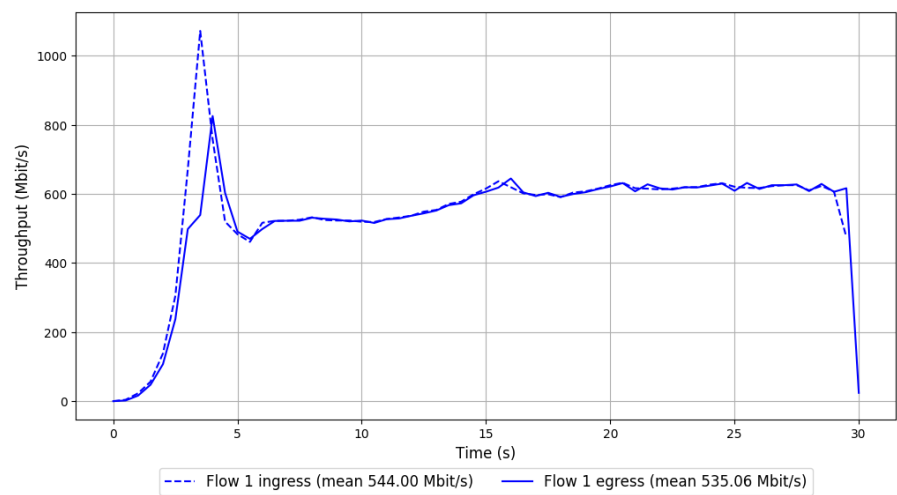
-- Flow 1:

Average throughput: 535.06 Mbit/s

95th percentile per-packet one-way delay: 155.095 ms

Loss rate: 1.64%

Run 10: Report of PCC — Data Link

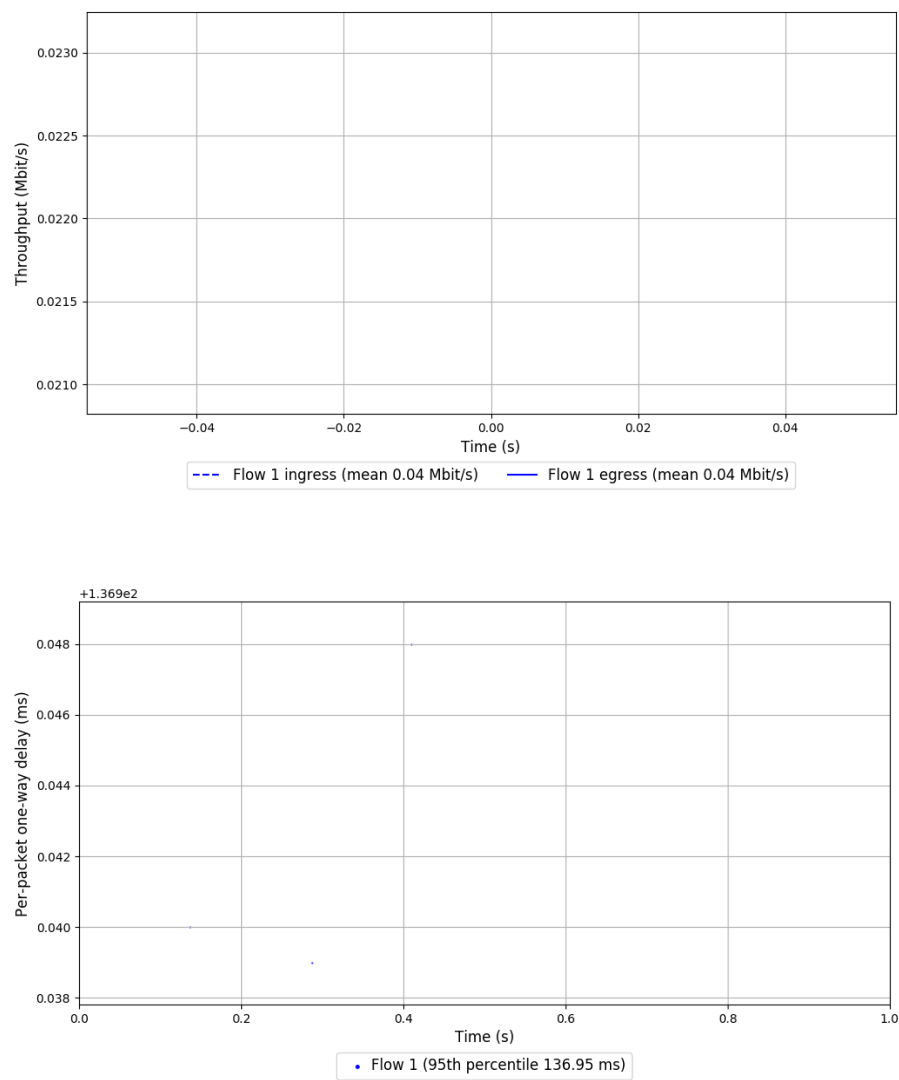


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-03 18:33:39

End at: 2018-04-03 18:34:10

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-03 18:49:26

End at: 2018-04-03 18:49:56

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.58 Mbit/s

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

Loss rate: 0.00%

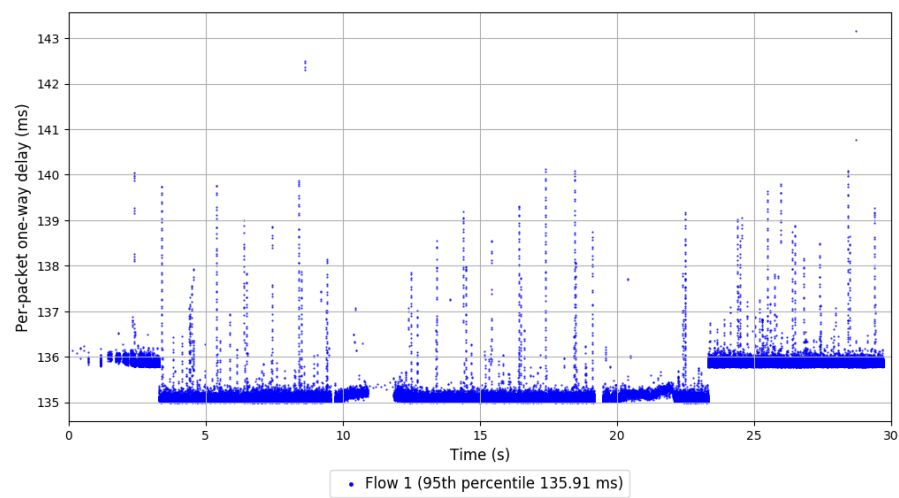
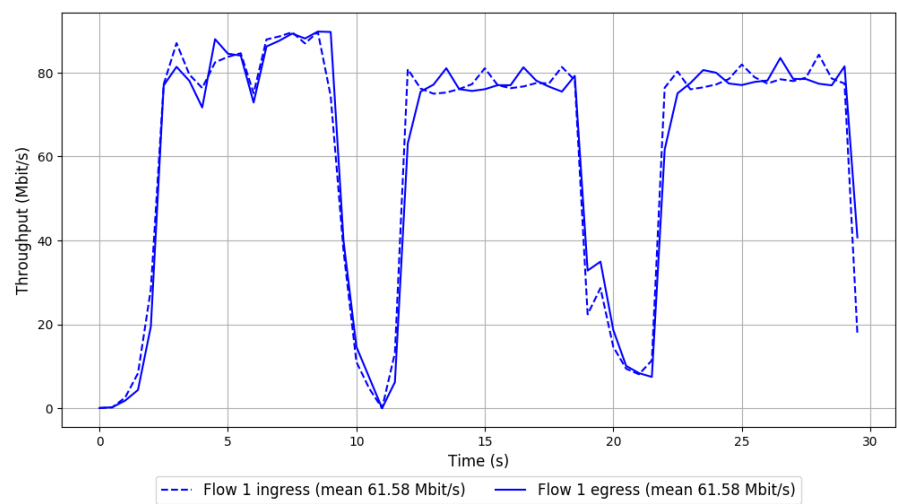
-- Flow 1:

Average throughput: 61.58 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-03 19:05:34

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

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.29 Mbit/s

95th percentile per-packet one-way delay: 135.730 ms

Loss rate: 0.00%

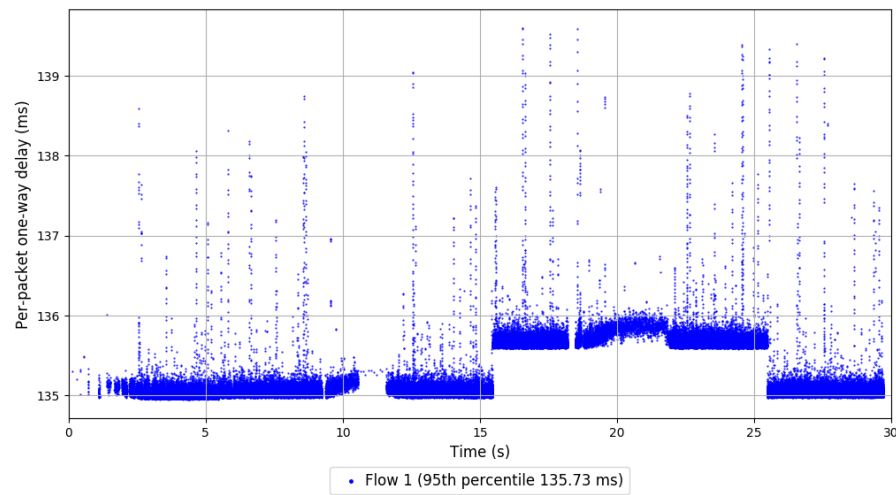
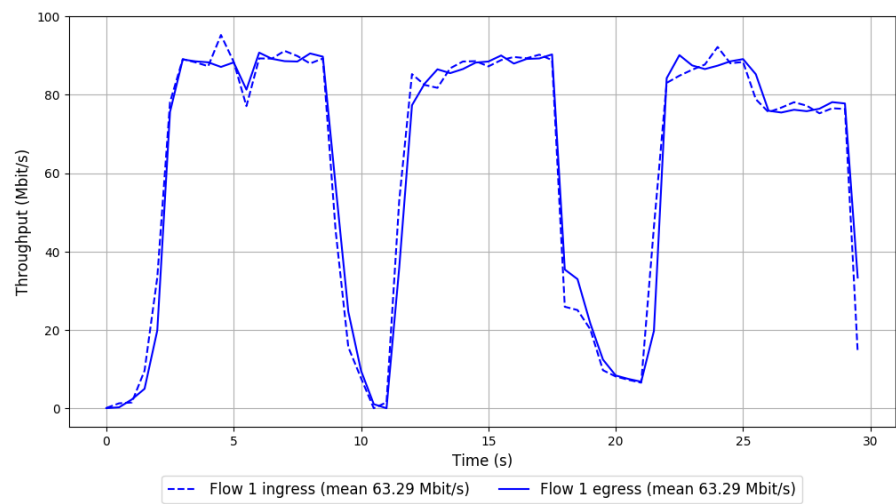
-- Flow 1:

Average throughput: 63.29 Mbit/s

95th percentile per-packet one-way delay: 135.730 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-03 19:21:22

End at: 2018-04-03 19:21:52

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 136.471 ms

Loss rate: 0.00%

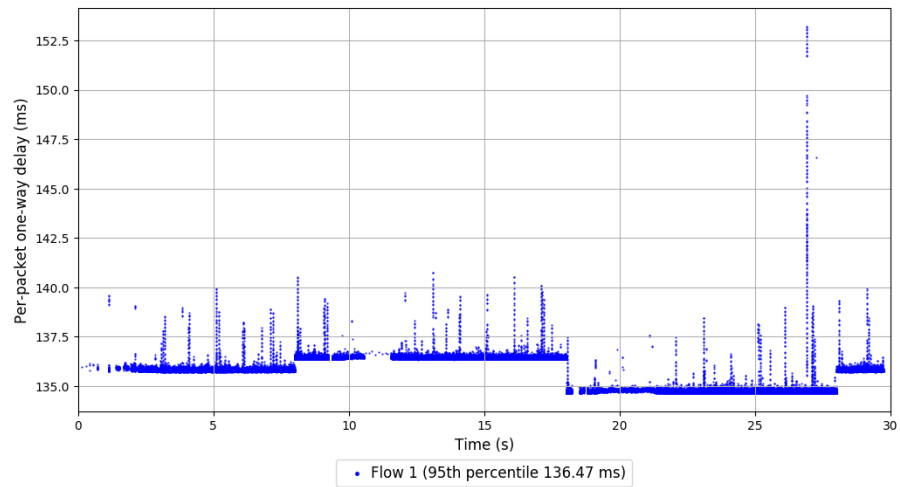
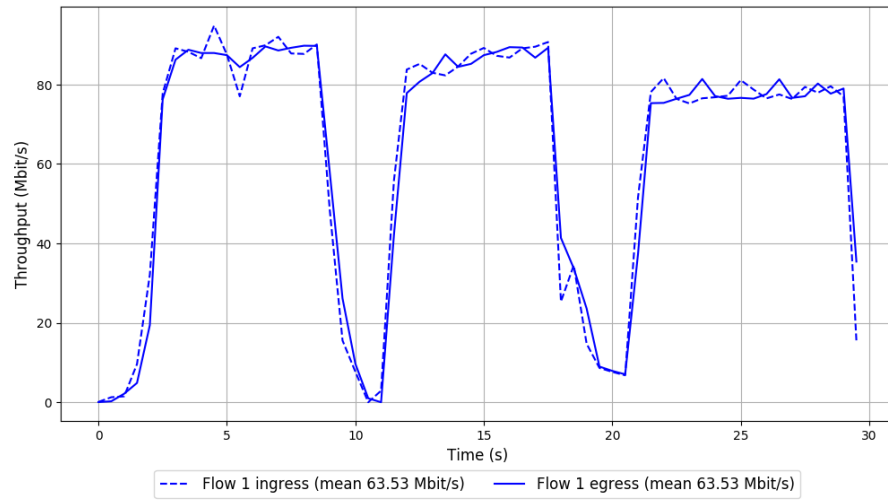
-- Flow 1:

Average throughput: 63.53 Mbit/s

95th percentile per-packet one-way delay: 136.471 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-03 19:37:37

End at: 2018-04-03 19:38:07

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.10 Mbit/s

95th percentile per-packet one-way delay: 203.063 ms

Loss rate: 0.00%

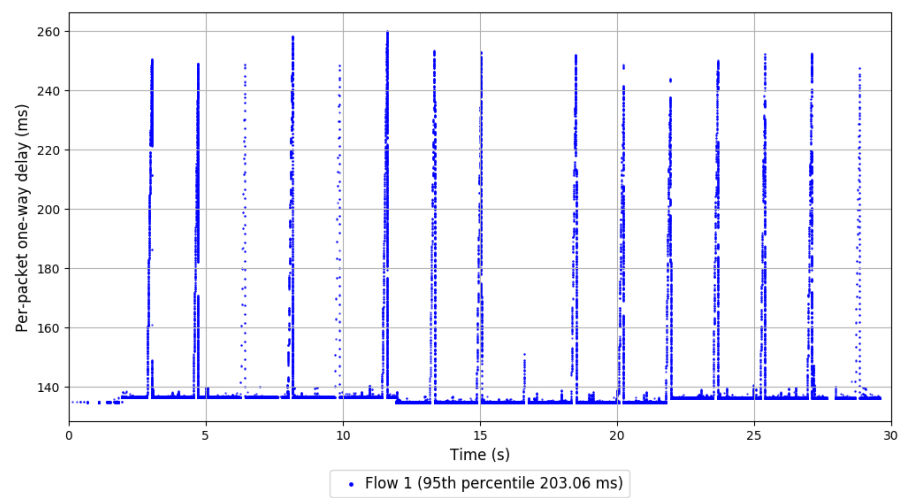
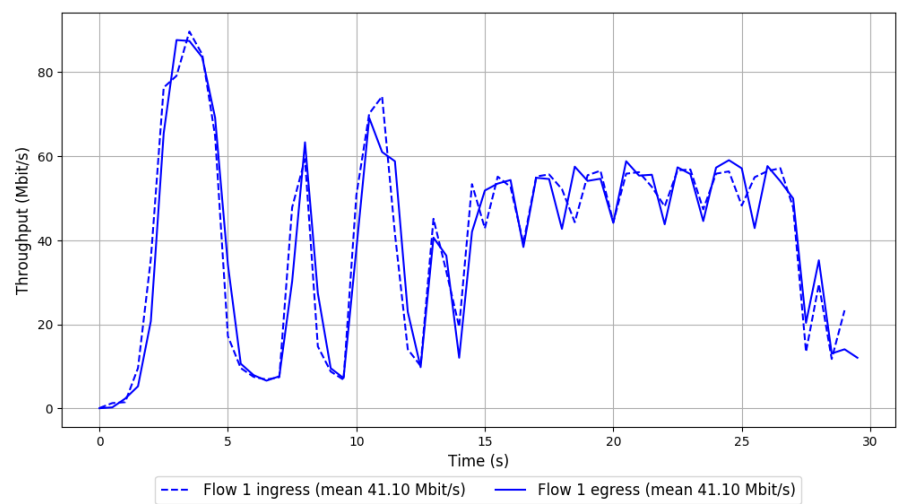
-- Flow 1:

Average throughput: 41.10 Mbit/s

95th percentile per-packet one-way delay: 203.063 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-03 19:53:16

End at: 2018-04-03 19:53:46

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 136.573 ms

Loss rate: 0.00%

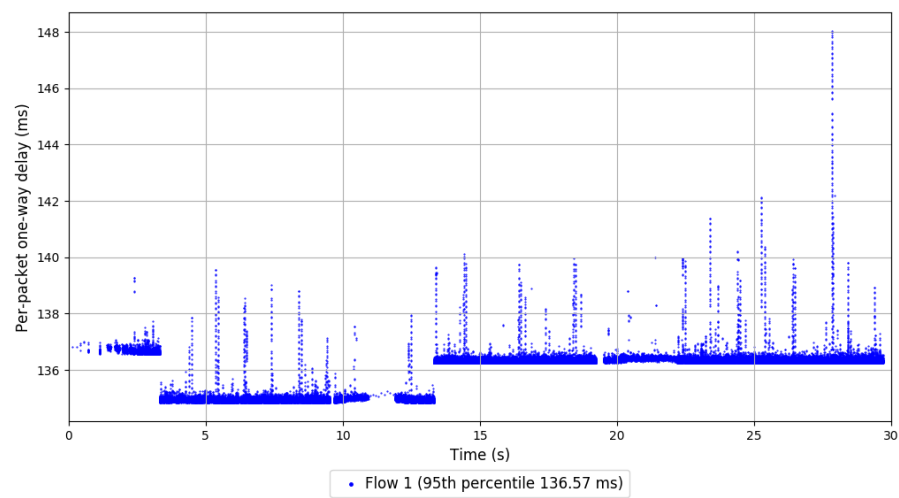
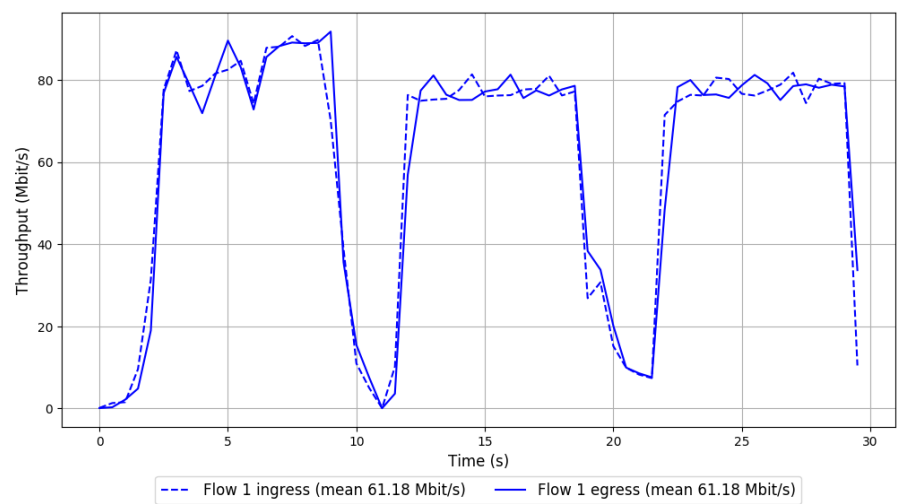
-- Flow 1:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 136.573 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-03 20:09:18

End at: 2018-04-03 20:09:48

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.34 Mbit/s

95th percentile per-packet one-way delay: 135.126 ms

Loss rate: 0.00%

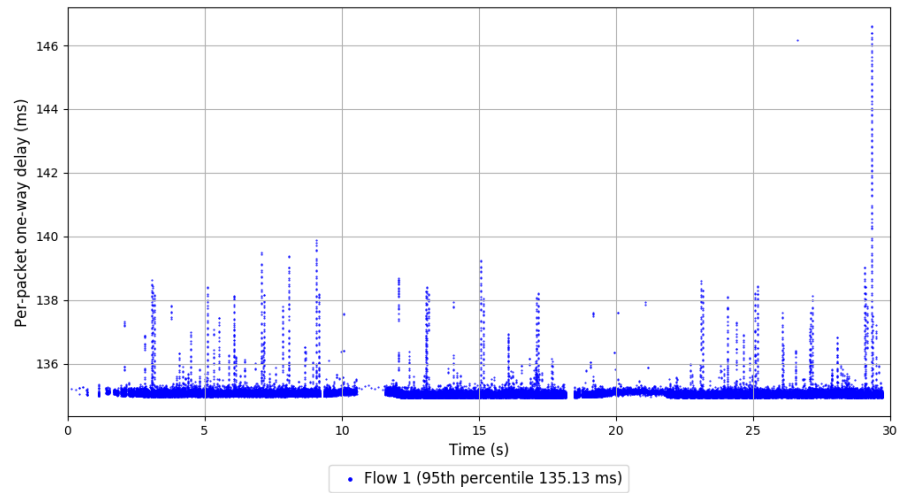
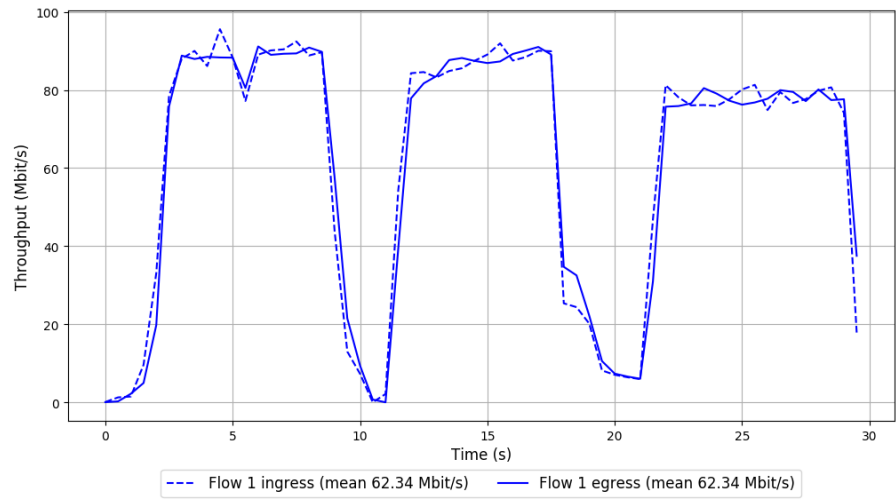
-- Flow 1:

Average throughput: 62.34 Mbit/s

95th percentile per-packet one-way delay: 135.126 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-03 20:25:07

End at: 2018-04-03 20:25:37

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.21 Mbit/s

95th percentile per-packet one-way delay: 137.121 ms

Loss rate: 0.00%

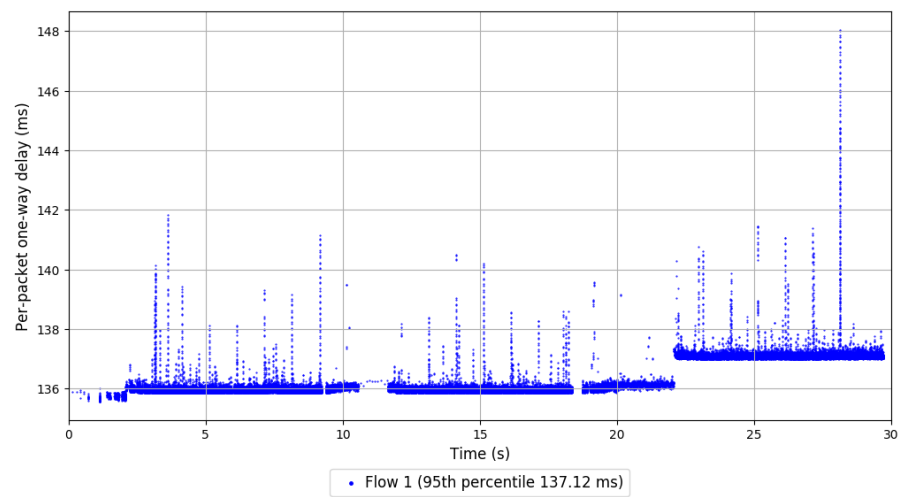
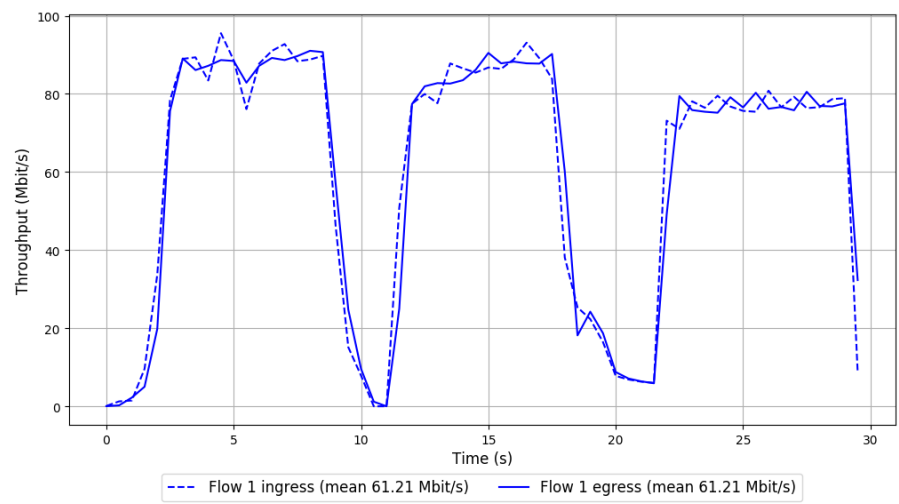
-- Flow 1:

Average throughput: 61.21 Mbit/s

95th percentile per-packet one-way delay: 137.121 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-03 20:40:49

End at: 2018-04-03 20:41:19

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.84 Mbit/s

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

Loss rate: 0.00%

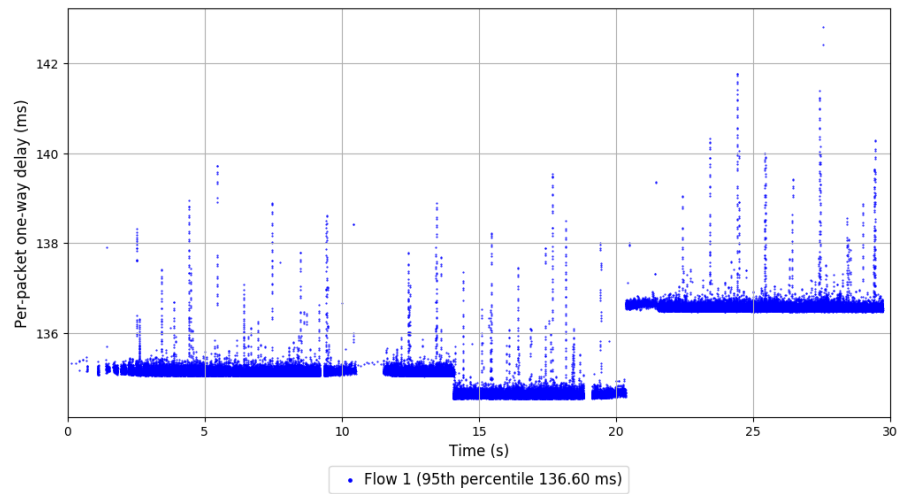
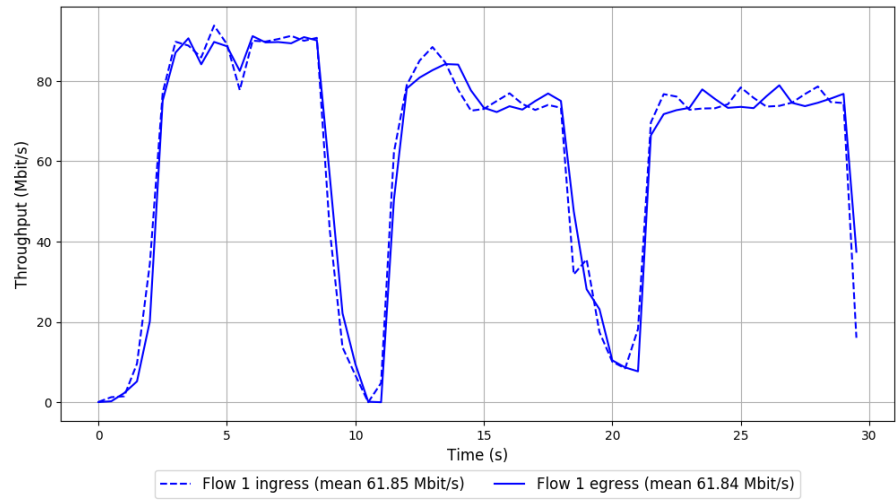
-- Flow 1:

Average throughput: 61.84 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

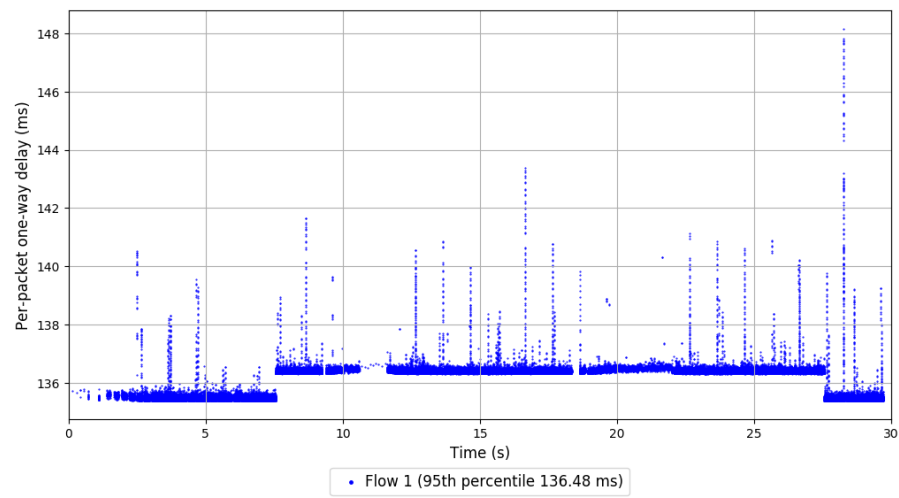
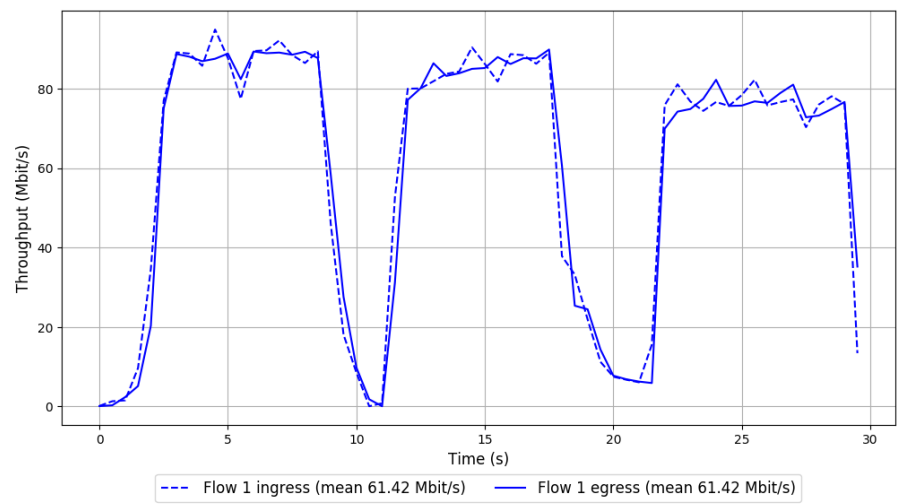


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-03 20:57:02
End at: 2018-04-03 20:57:32

# Below is generated by plot.py at 2018-04-03 23:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 136.484 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 61.42 Mbit/s
95th percentile per-packet one-way delay: 136.484 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

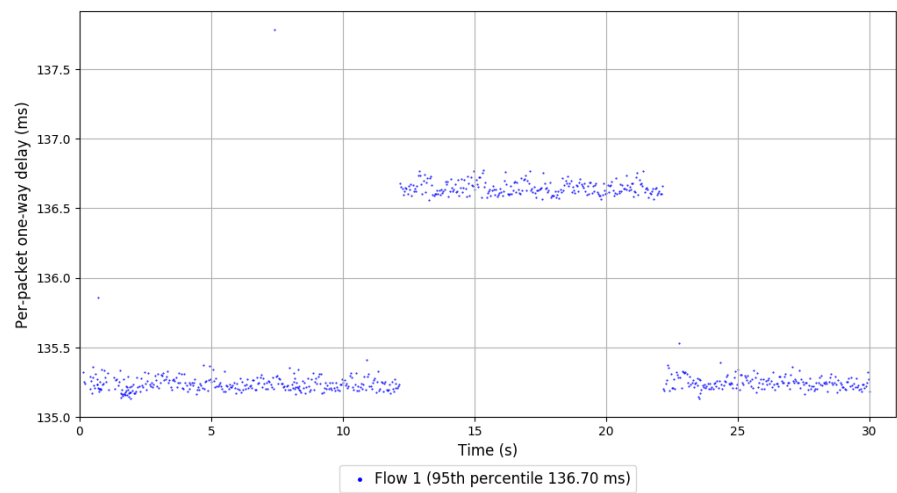
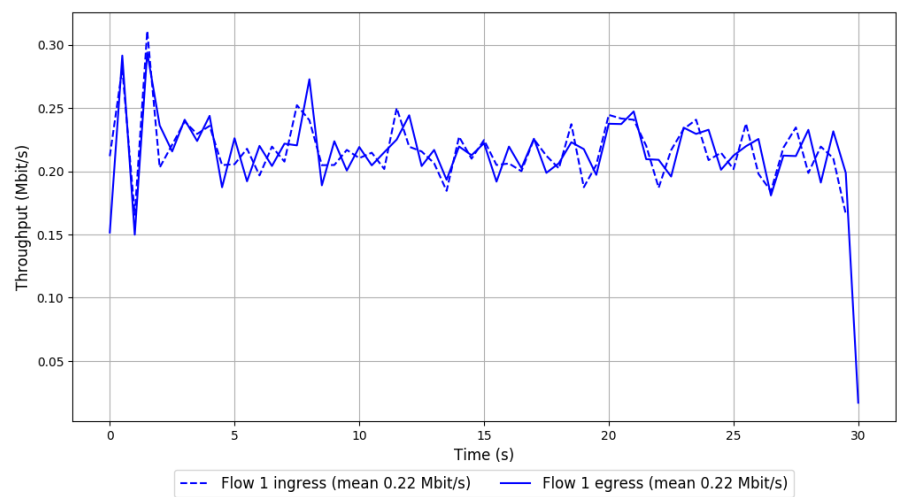


```
Run 1: Statistics of SCReAM

Start at: 2018-04-03 18:32:58
End at: 2018-04-03 18:33:28

# Below is generated by plot.py at 2018-04-03 23:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.697 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.697 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

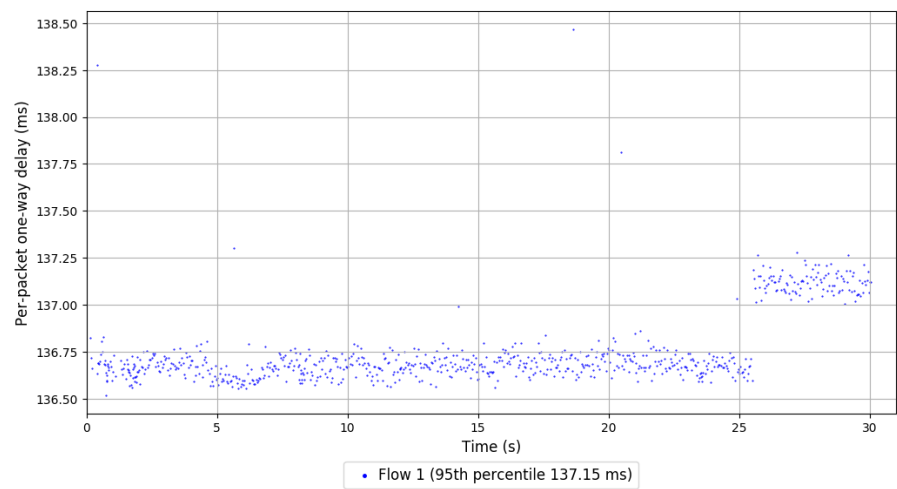
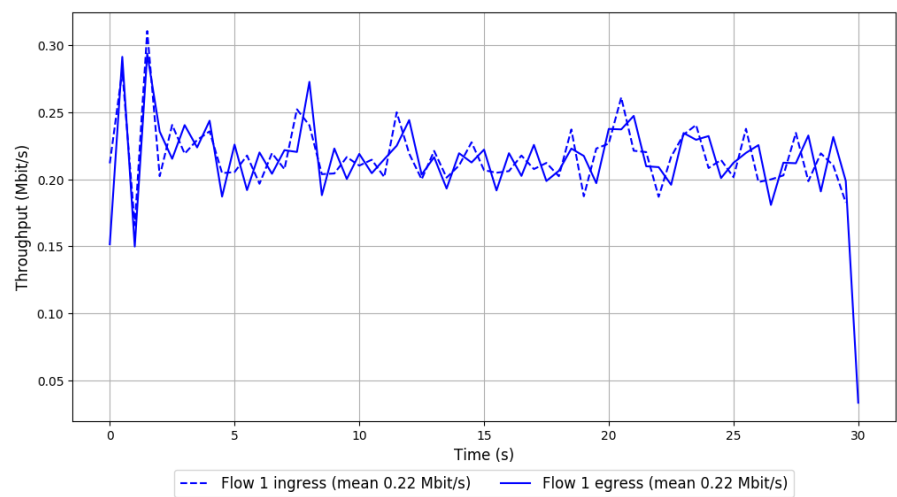


```
Run 2: Statistics of SCReAM

Start at: 2018-04-03 18:48:44
End at: 2018-04-03 18:49:14

# Below is generated by plot.py at 2018-04-03 23:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.148 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-03 19:04:52

End at: 2018-04-03 19:05:22

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

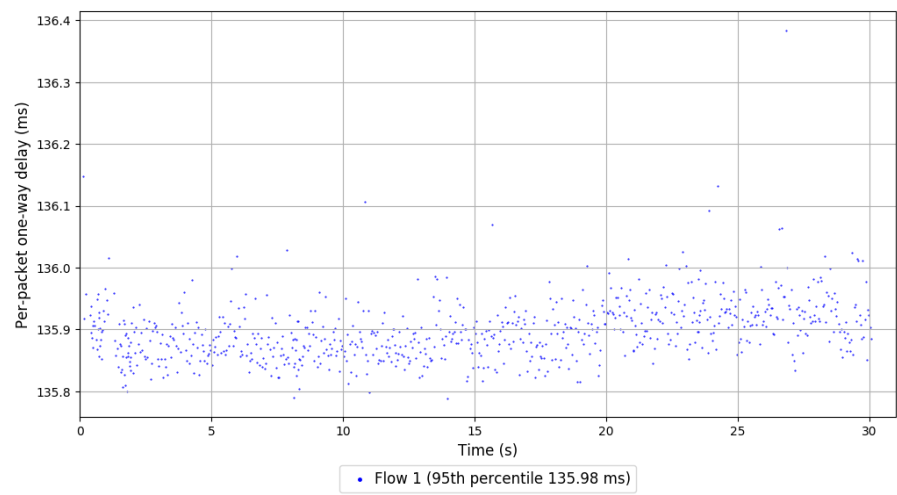
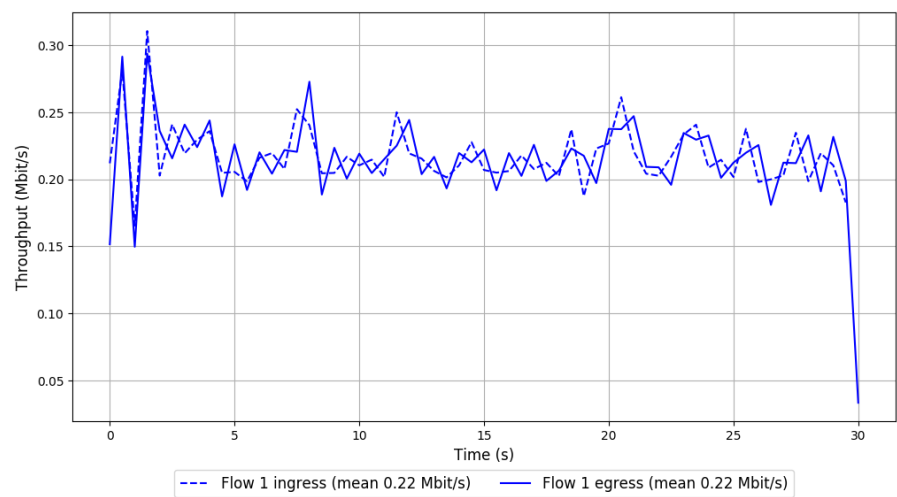
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-03 19:20:40

End at: 2018-04-03 19:21:10

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.189 ms

Loss rate: 0.00%

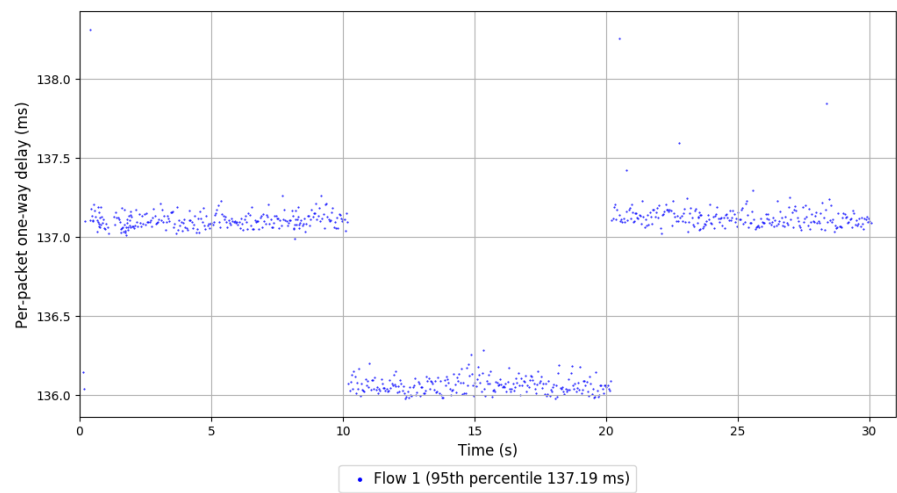
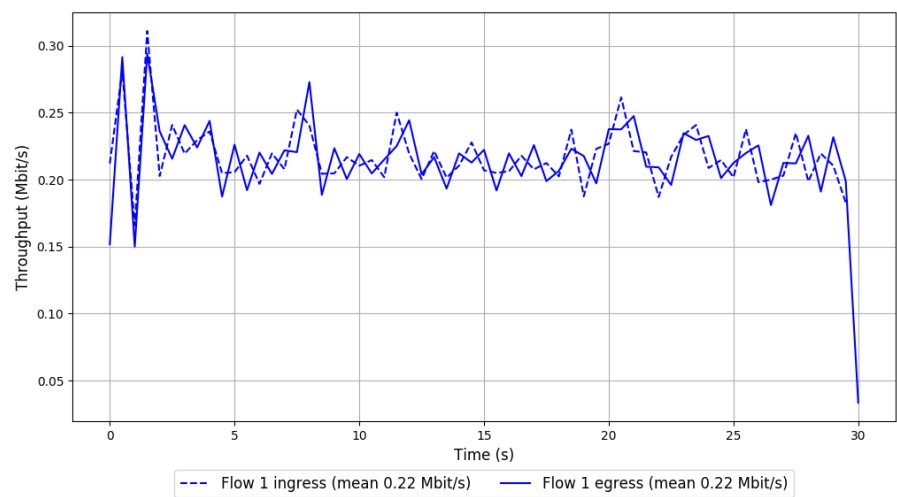
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.189 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-03 19:36:52

End at: 2018-04-03 19:37:22

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.00%

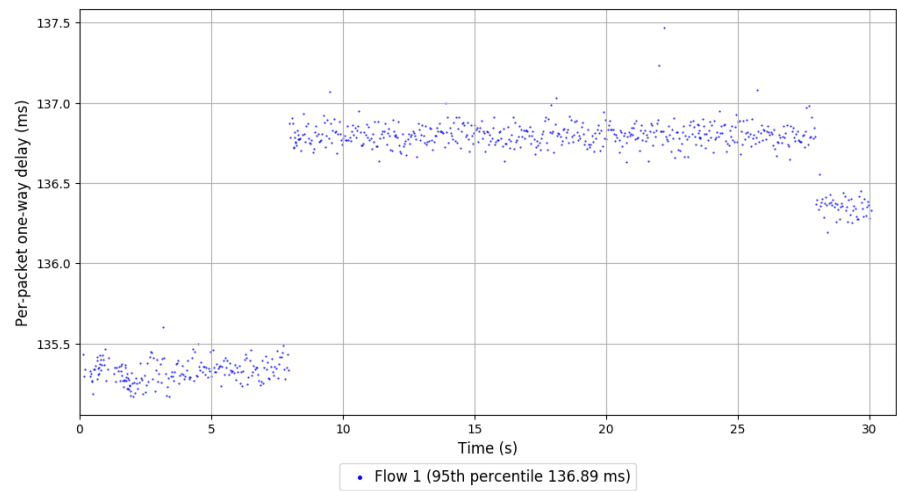
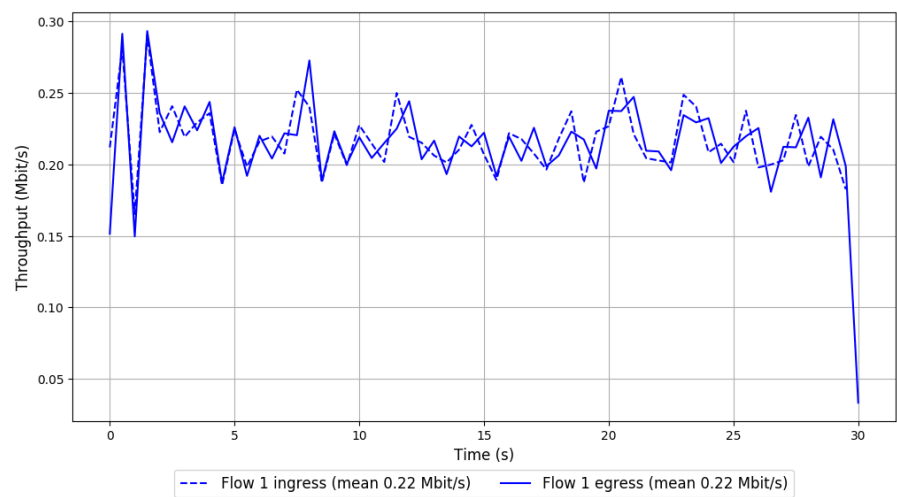
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-03 19:52:34

End at: 2018-04-03 19:53:04

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

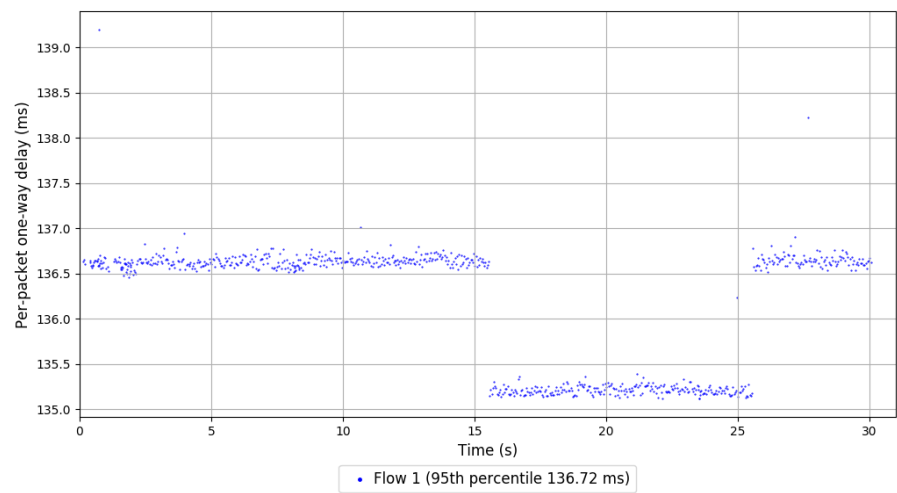
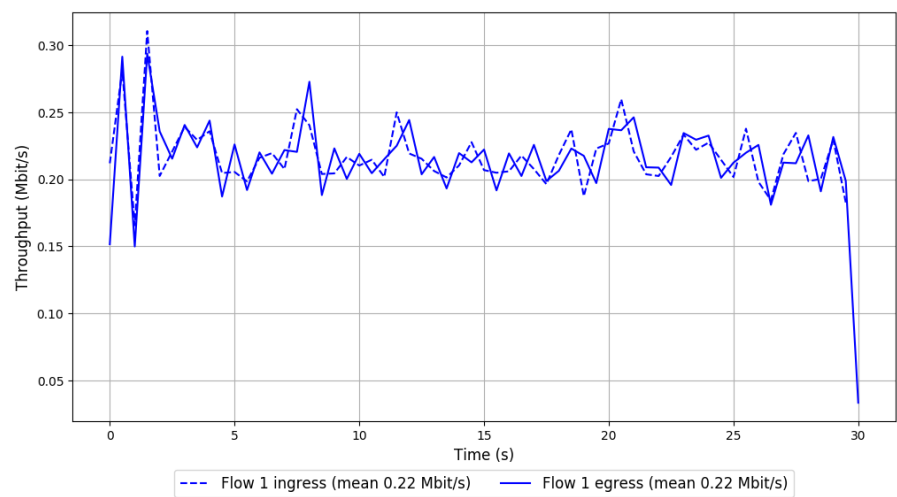
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-03 20:08:36

End at: 2018-04-03 20:09:06

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.076 ms

Loss rate: 0.00%

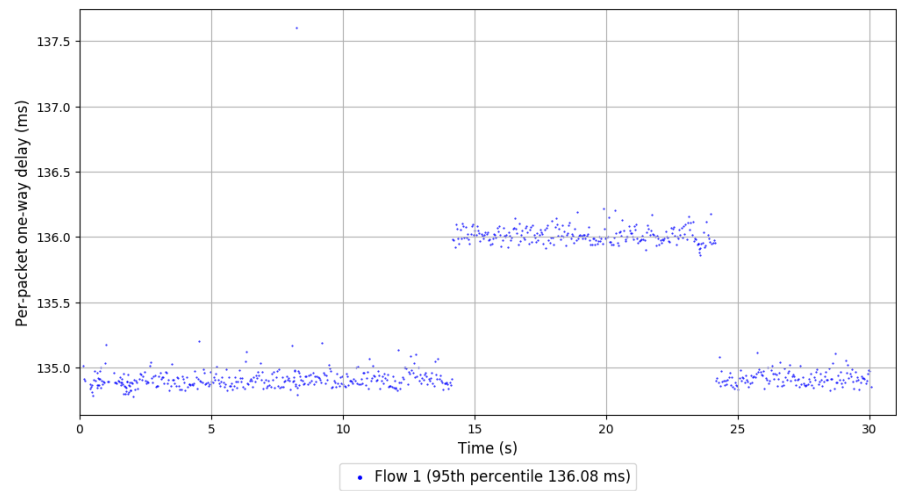
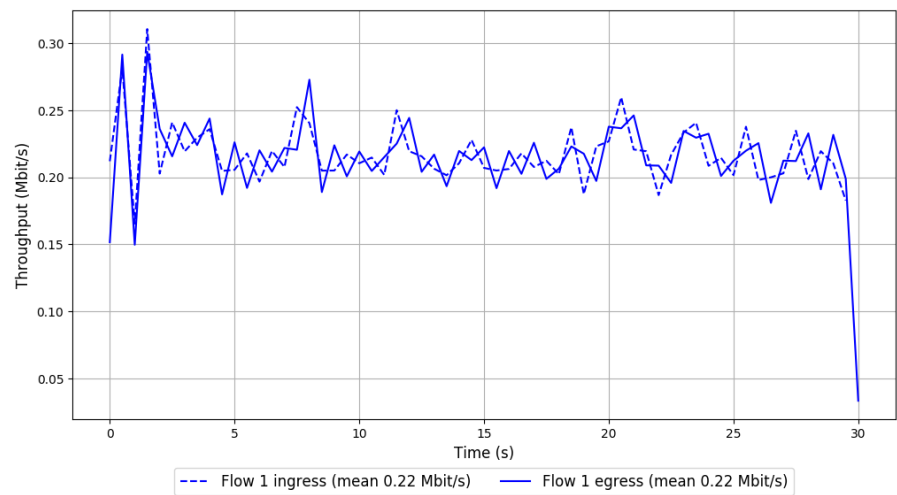
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.076 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-03 20:24:26

End at: 2018-04-03 20:24:56

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

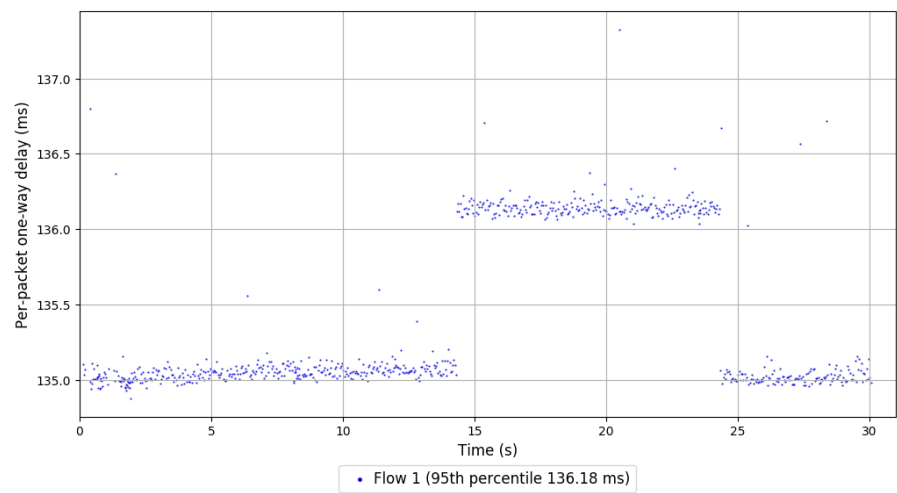
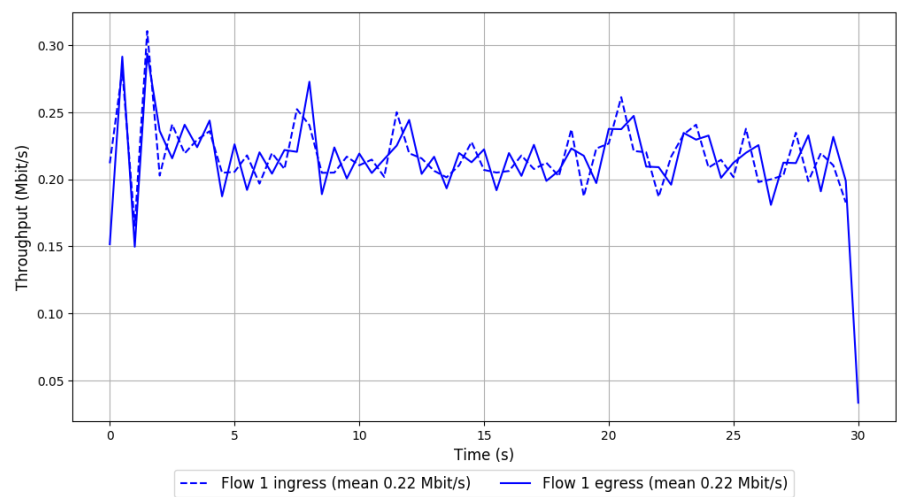
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-03 20:40:07

End at: 2018-04-03 20:40:37

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.182 ms

Loss rate: 0.00%

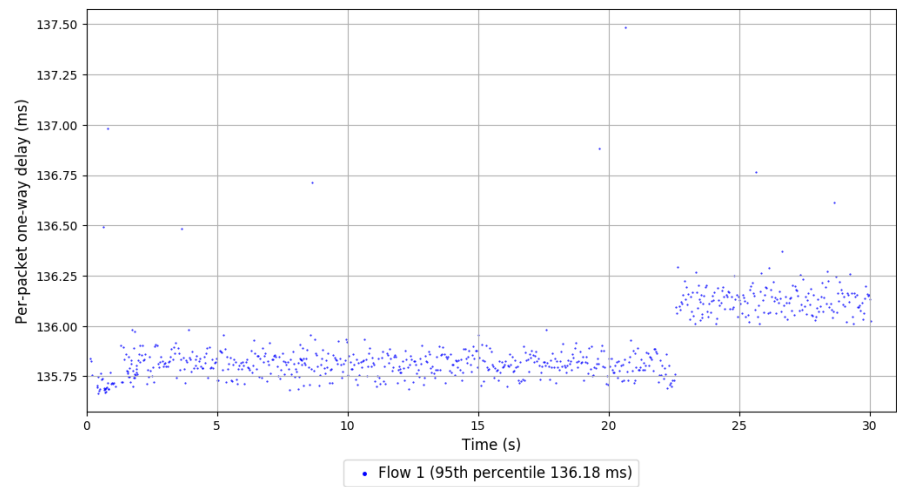
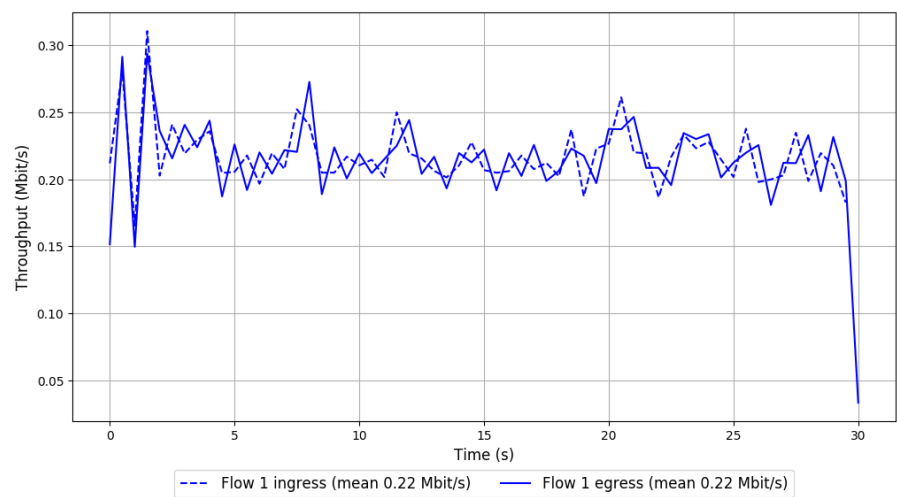
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.182 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-03 20:56:20

End at: 2018-04-03 20:56:50

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.00%

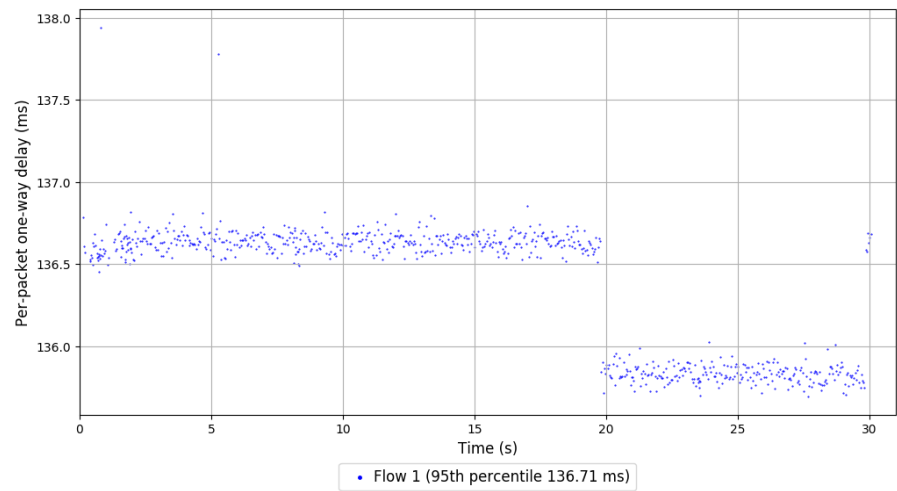
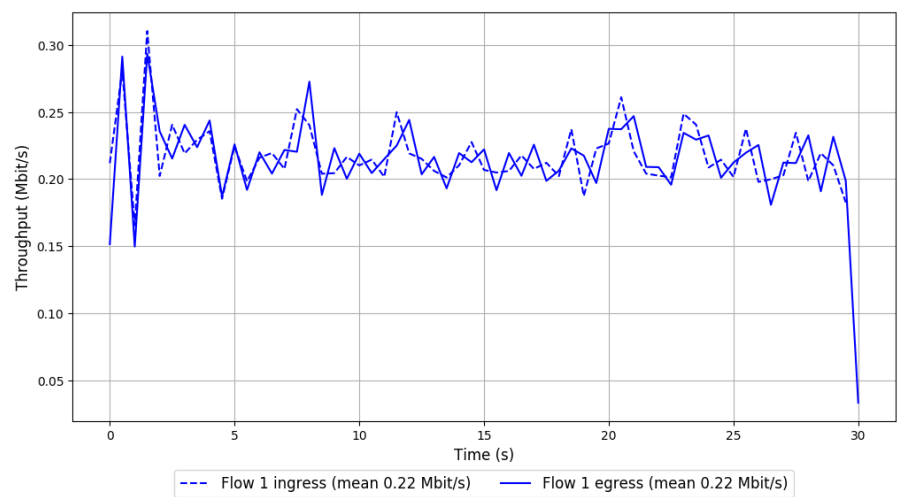
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.710 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

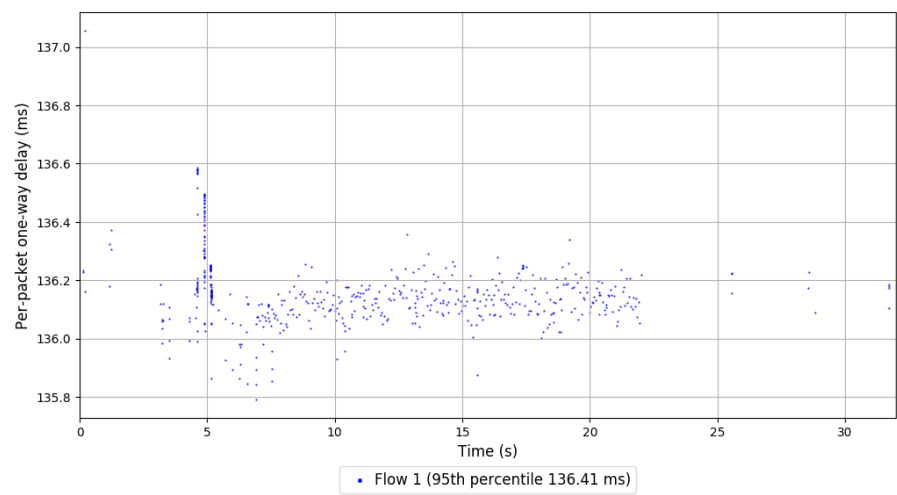
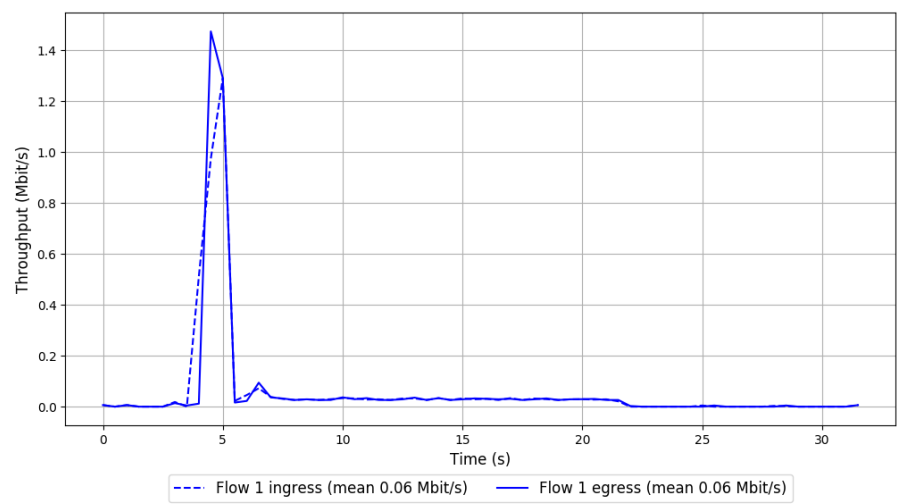


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-03 18:44:47
End at: 2018-04-03 18:45:17

# Below is generated by plot.py at 2018-04-03 23:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 136.413 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-03 19:00:38

End at: 2018-04-03 19:01:09

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.369 ms

Loss rate: 0.00%

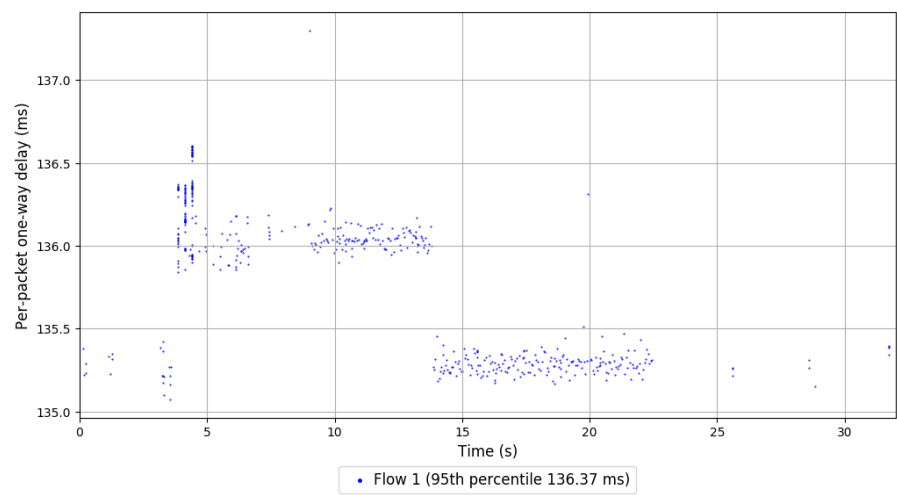
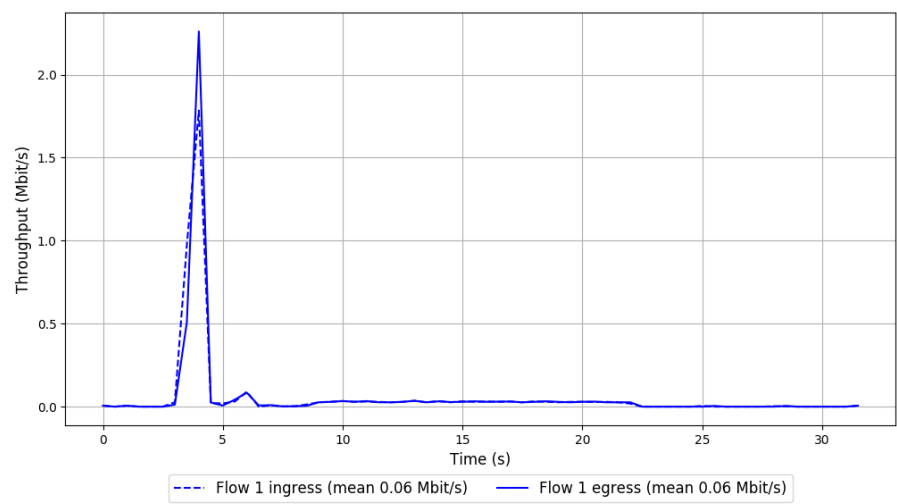
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.369 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-03 19:16:43

End at: 2018-04-03 19:17:13

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.421 ms

Loss rate: 0.00%

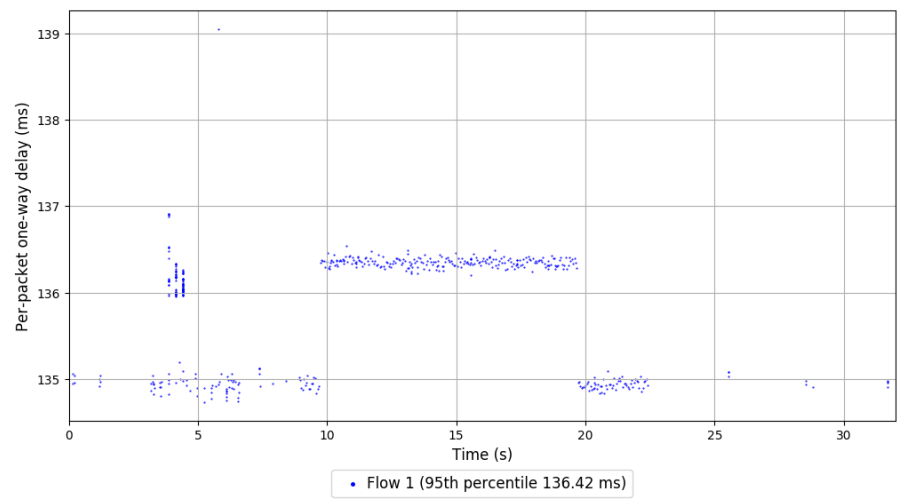
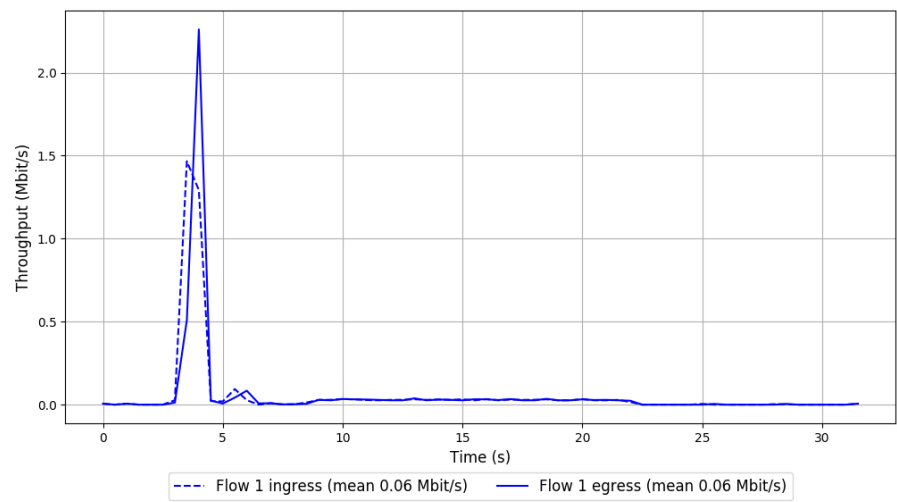
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.421 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-03 19:32:40

End at: 2018-04-03 19:33:10

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.557 ms

Loss rate: 0.00%

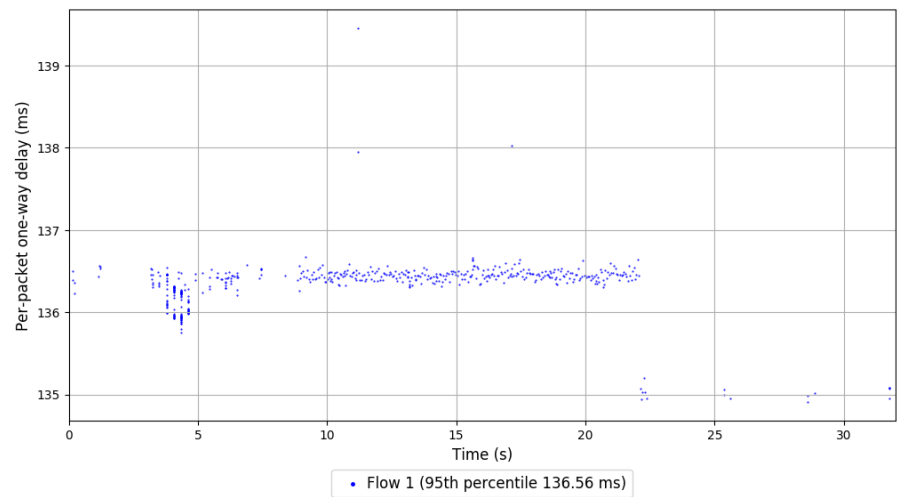
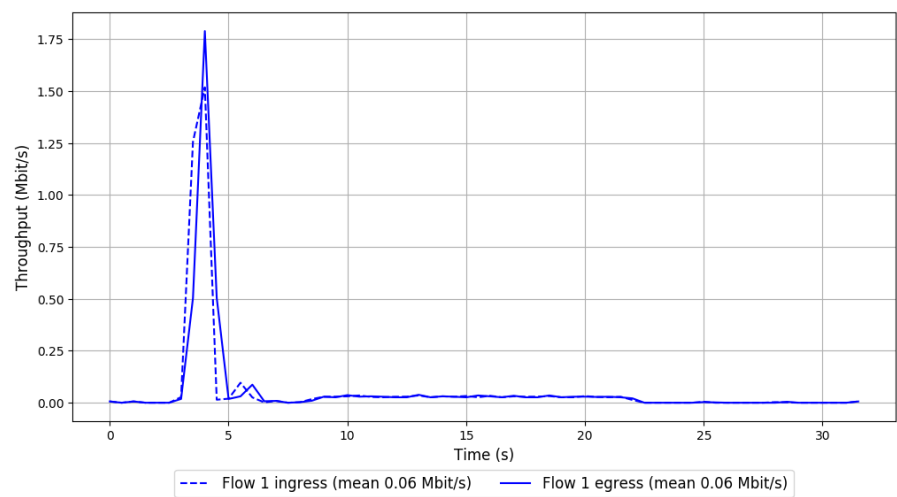
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.557 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-03 19:48:20

End at: 2018-04-03 19:48:50

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.649 ms

Loss rate: 0.00%

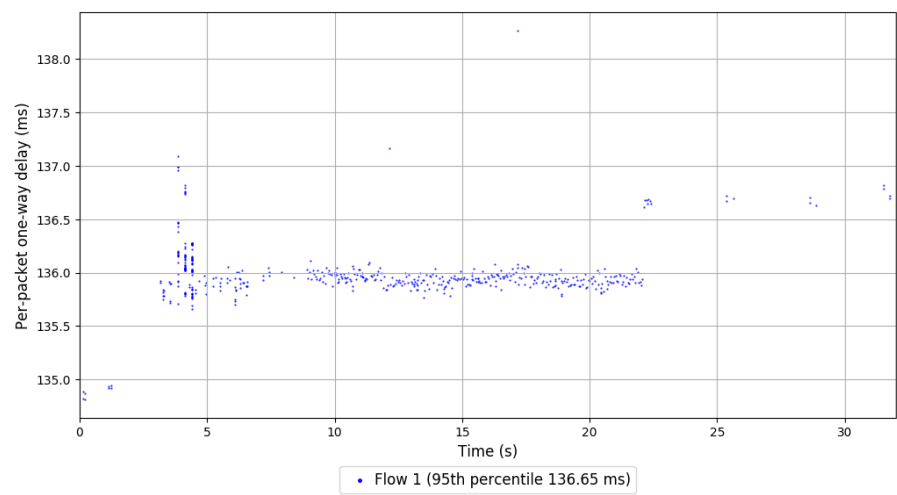
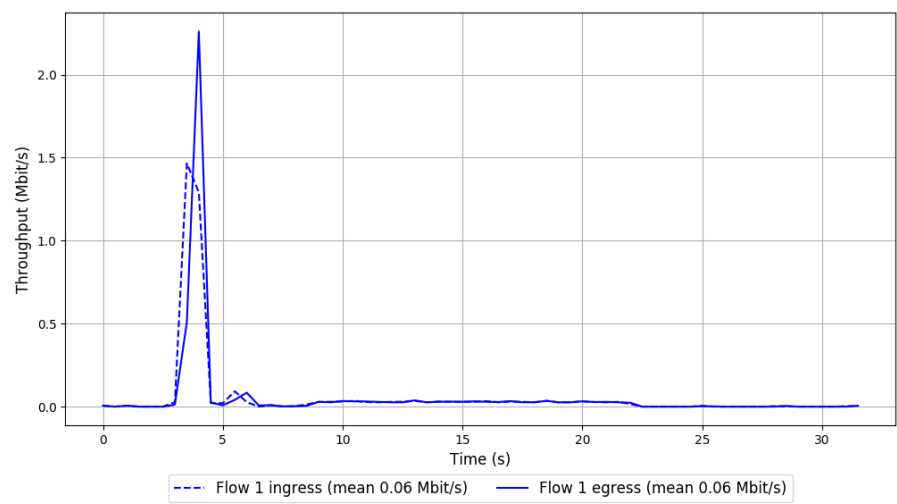
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.649 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-03 20:04:22

End at: 2018-04-03 20:04:52

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

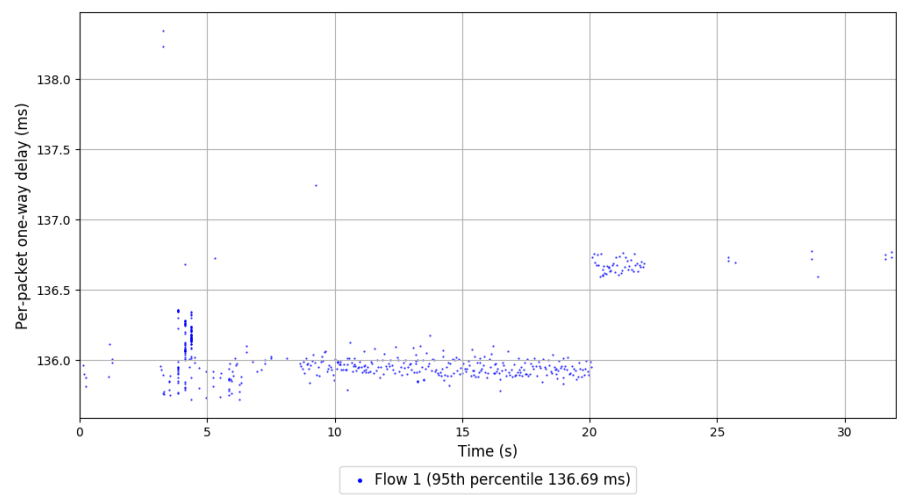
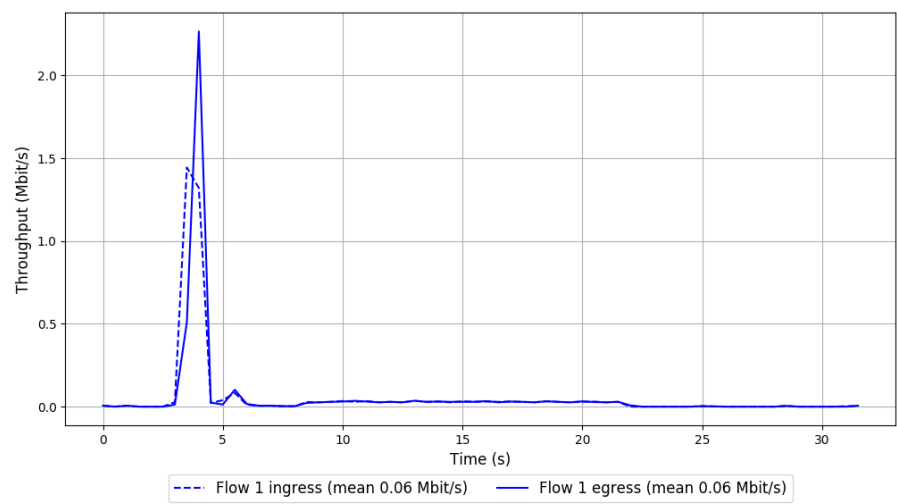
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-03 20:20:27

End at: 2018-04-03 20:20:57

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 137.225 ms

Loss rate: 0.00%

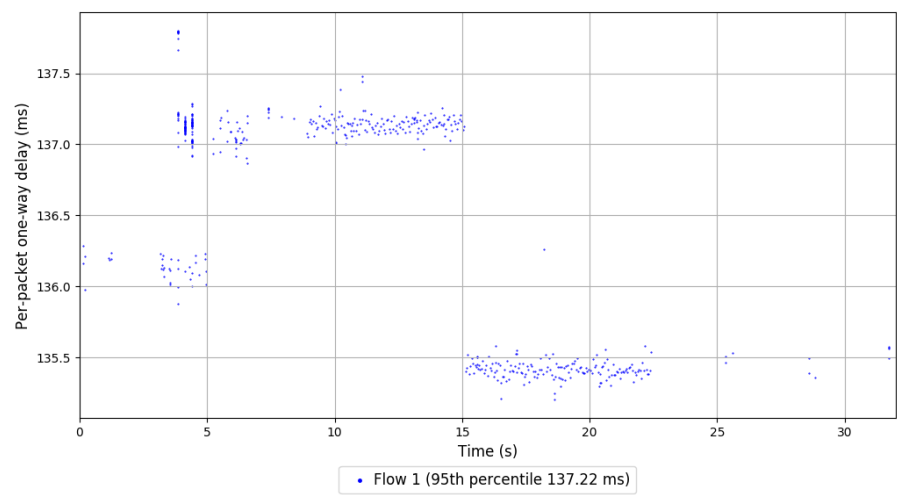
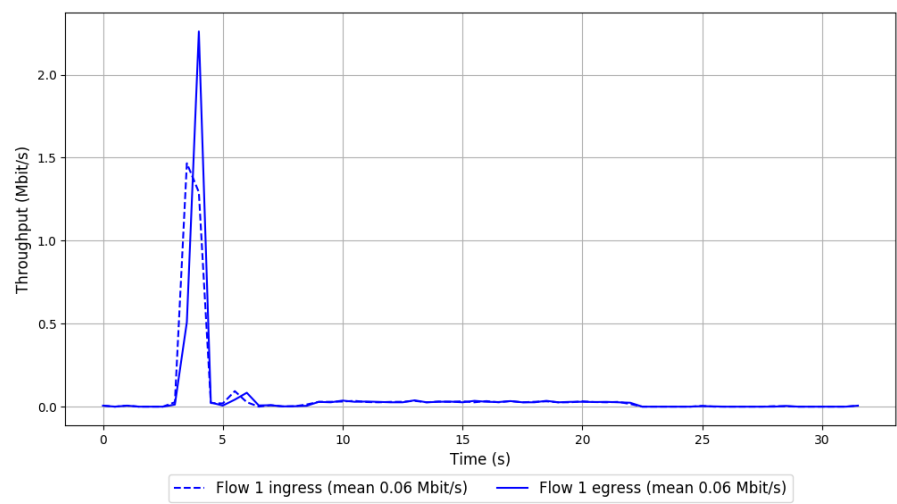
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 137.225 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-03 20:36:10

End at: 2018-04-03 20:36:40

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 137.304 ms

Loss rate: 0.00%

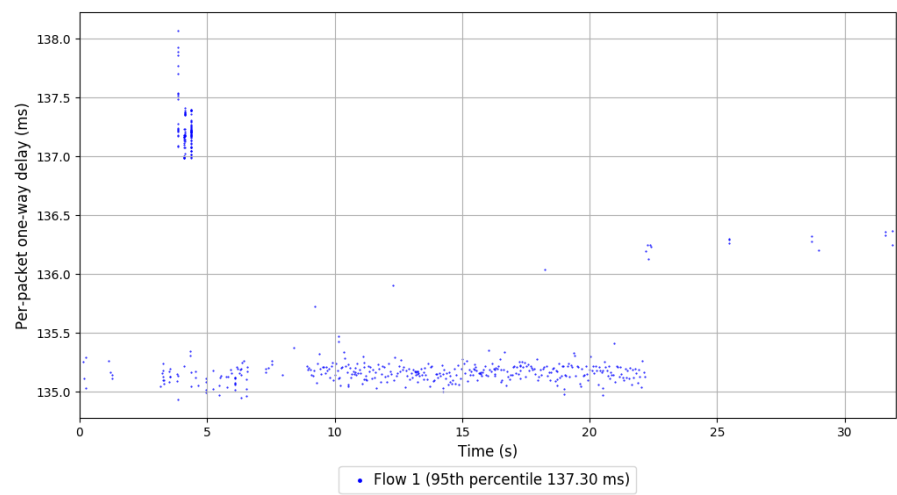
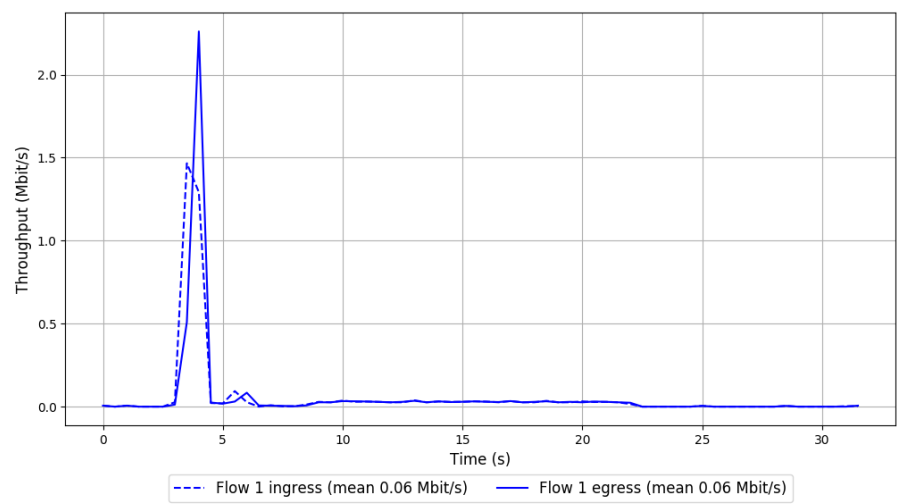
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 137.304 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-03 20:52:05

End at: 2018-04-03 20:52:35

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 0.00%

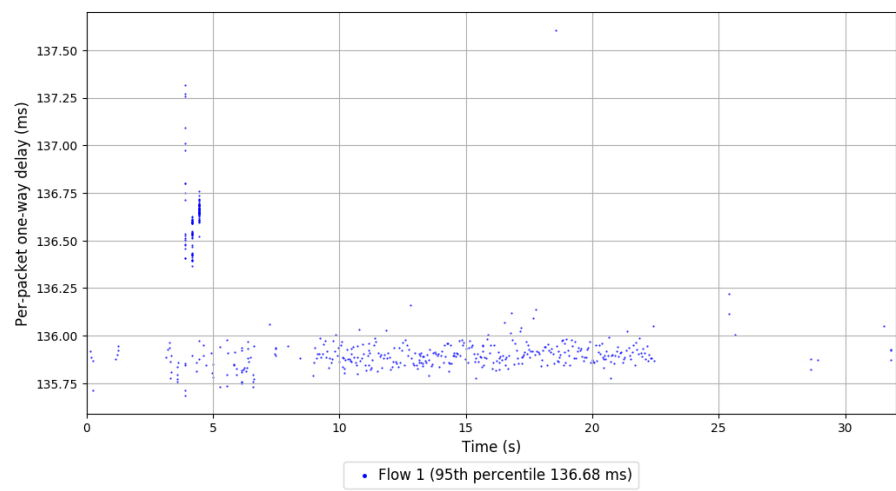
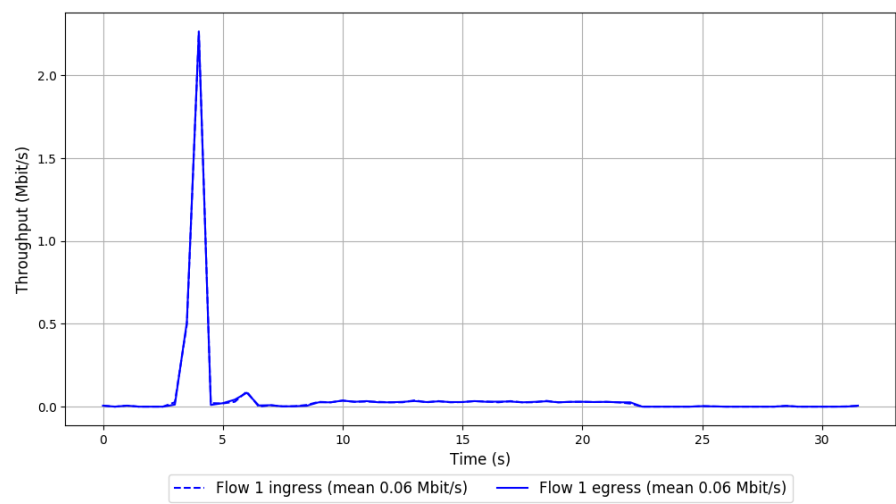
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.679 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-03 21:07:51

End at: 2018-04-03 21:08:21

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.987 ms

Loss rate: 0.00%

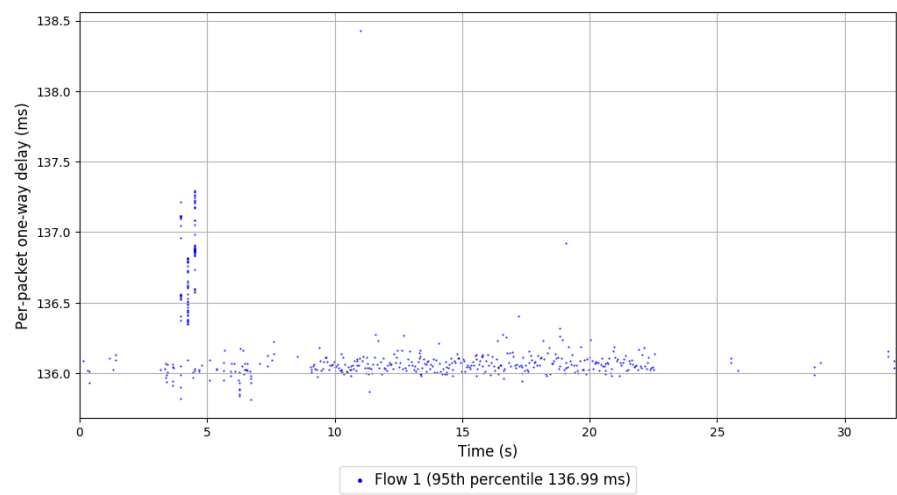
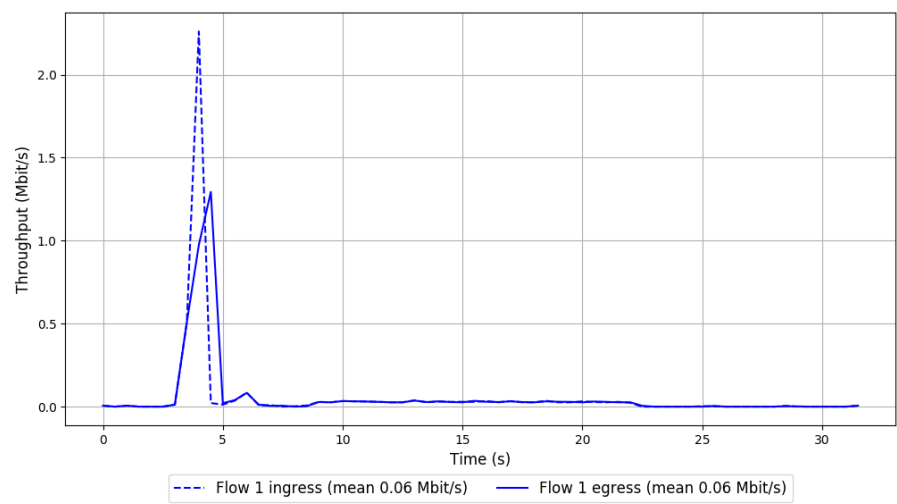
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 136.987 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-03 18:41:29

End at: 2018-04-03 18:41:59

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.283 ms

Loss rate: 0.00%

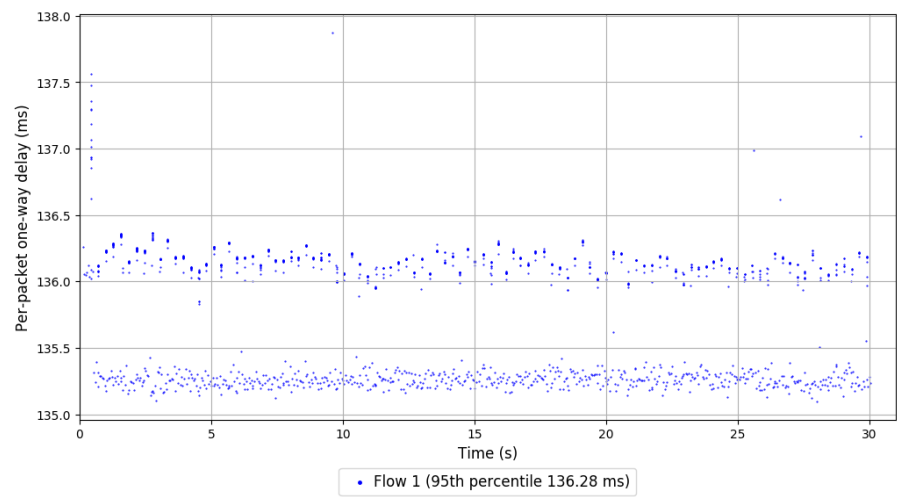
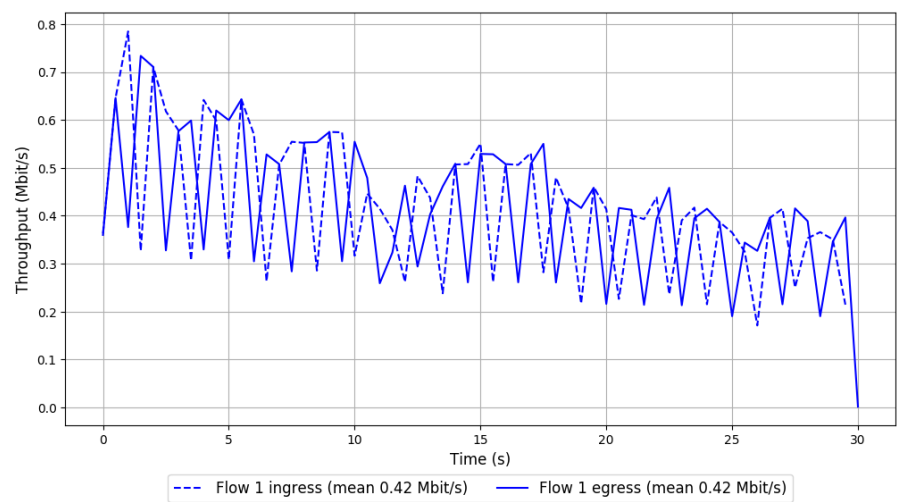
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 136.283 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-03 18:57:22

End at: 2018-04-03 18:57:52

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.934 ms

Loss rate: 0.00%

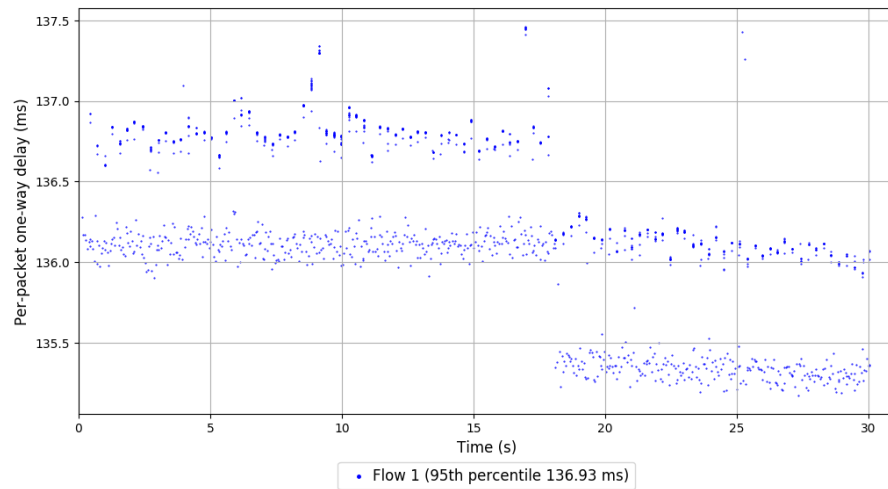
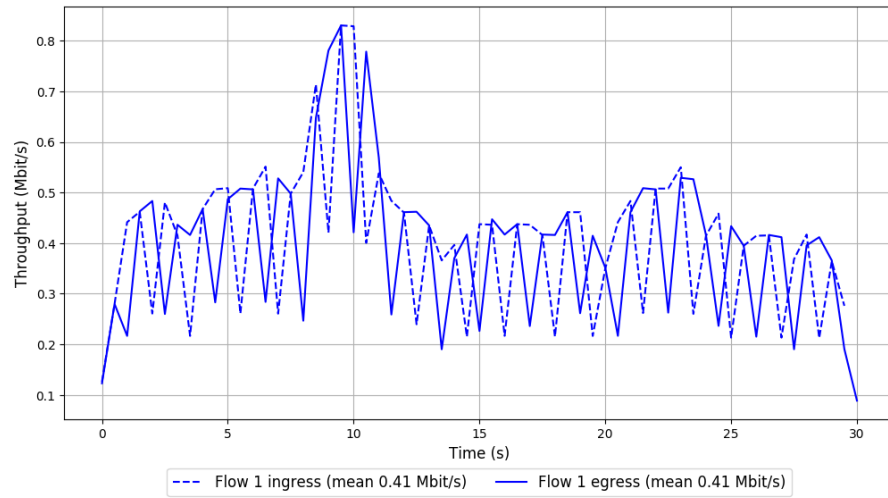
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.934 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-03 19:13:31

End at: 2018-04-03 19:14:01

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.00%

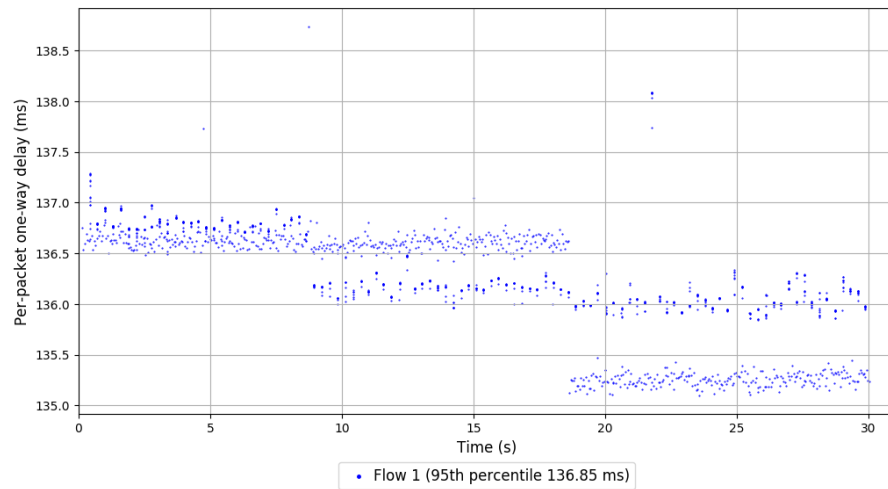
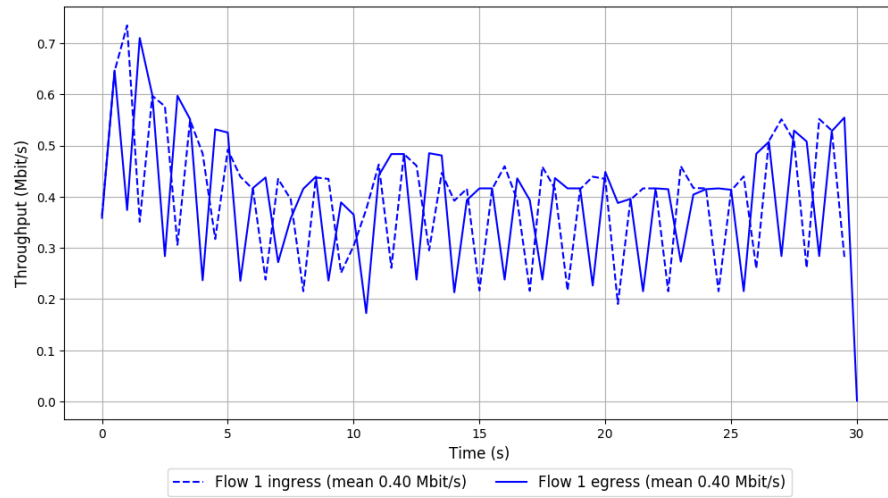
-- Flow 1:

Average throughput: 0.40 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-03 19:29:17

End at: 2018-04-03 19:29:47

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.00%

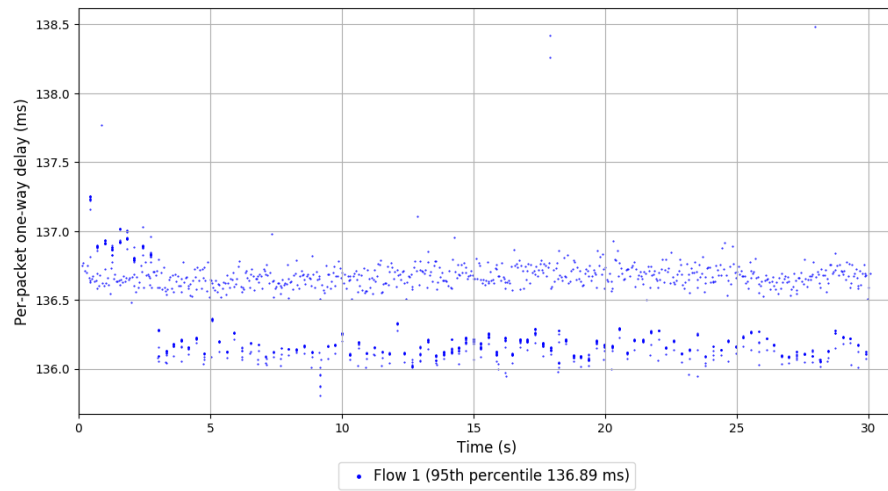
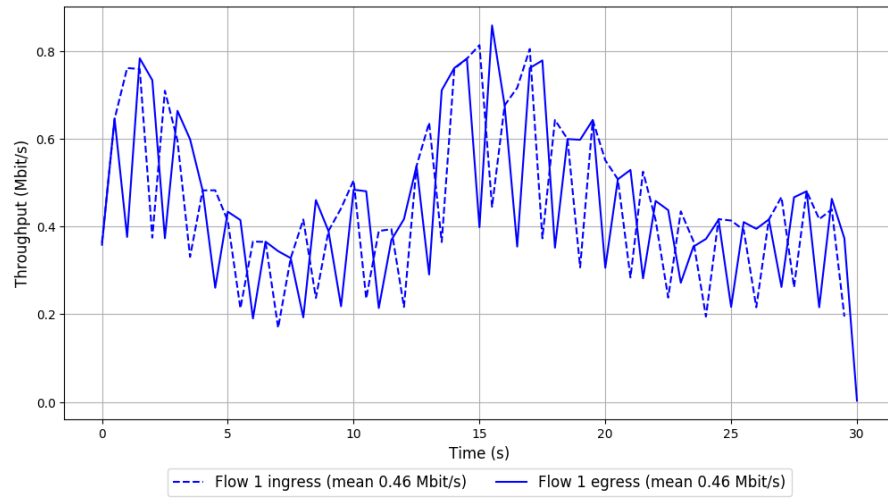
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-03 19:45:04

End at: 2018-04-03 19:45:34

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 137.023 ms

Loss rate: 0.00%

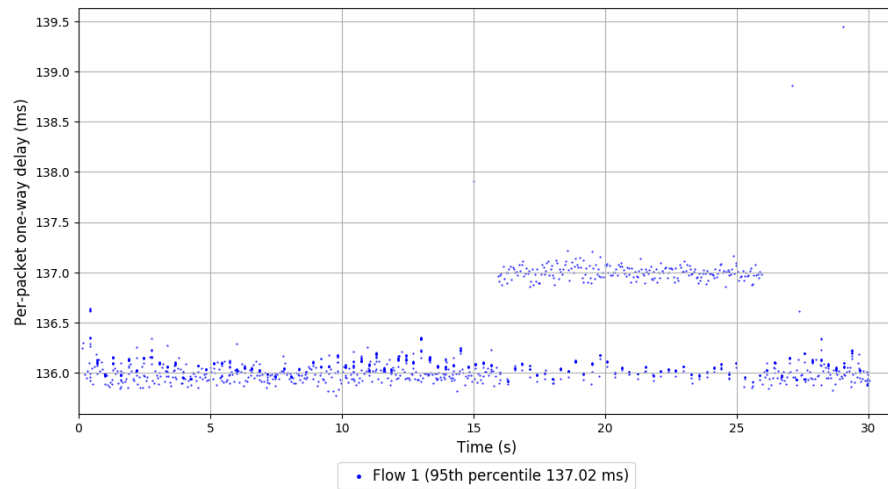
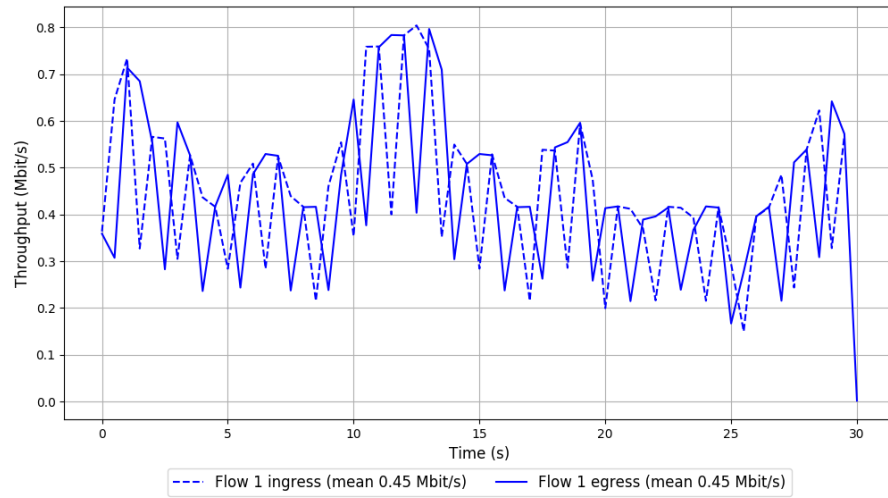
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 137.023 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-03 20:01:06

End at: 2018-04-03 20:01:36

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 136.231 ms

Loss rate: 0.00%

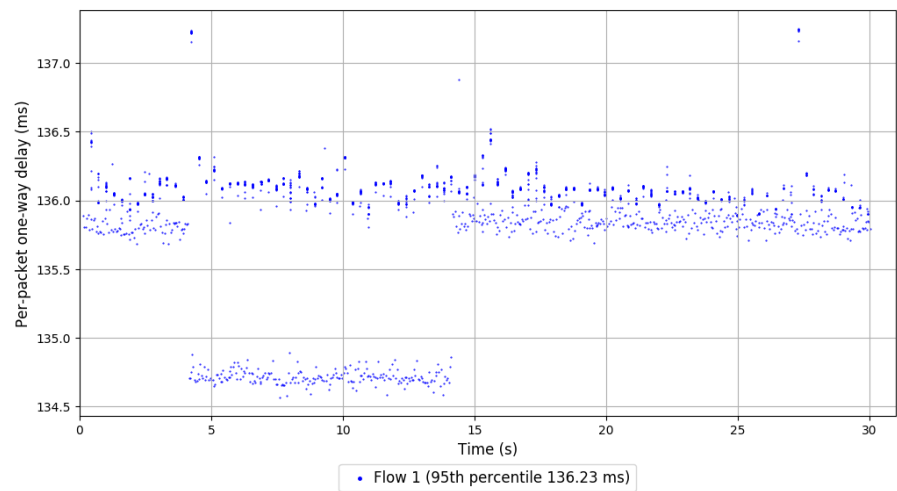
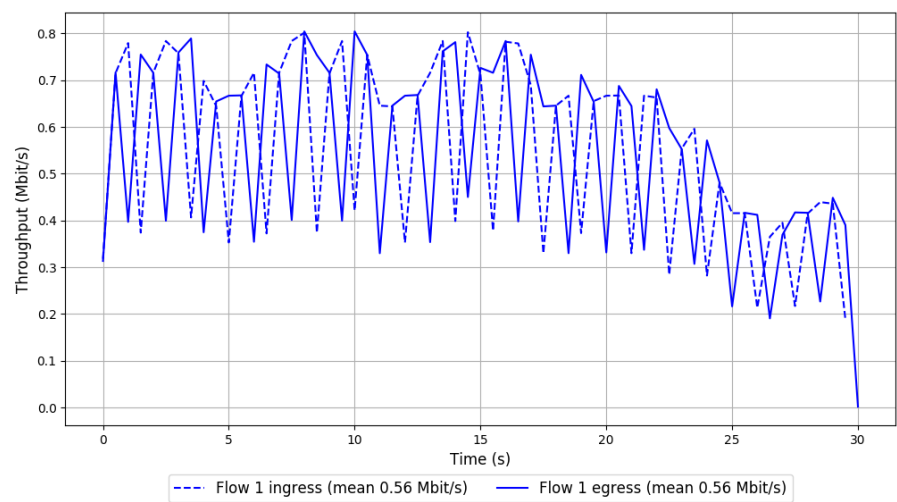
-- Flow 1:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 136.231 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-03 20:17:08

End at: 2018-04-03 20:17:38

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.395 ms

Loss rate: 0.00%

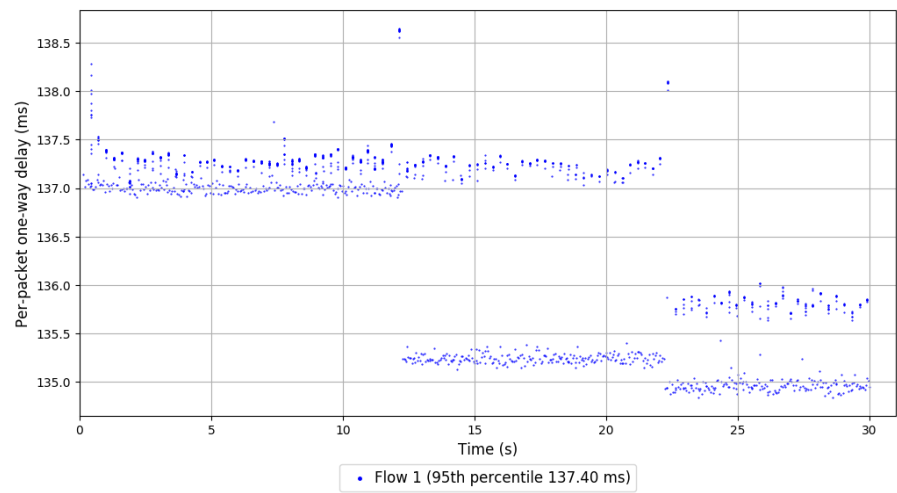
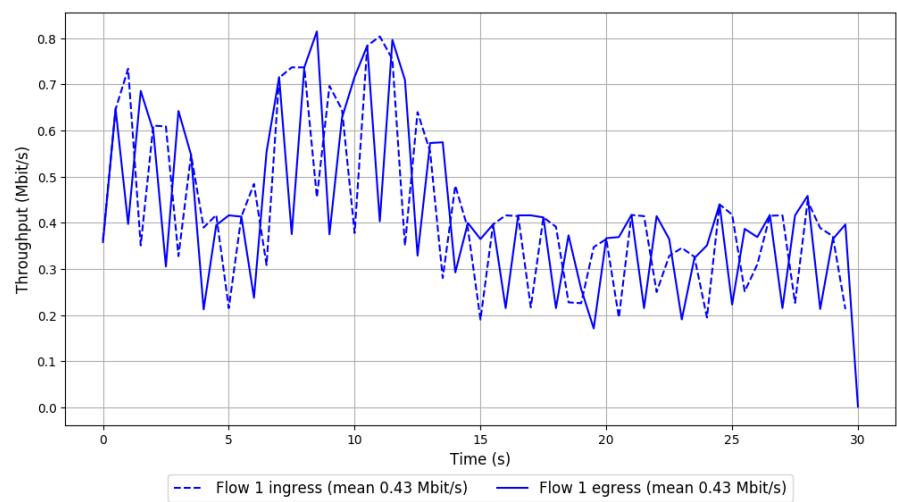
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.395 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-03 20:32:55

End at: 2018-04-03 20:33:25

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.373 ms

Loss rate: 0.00%

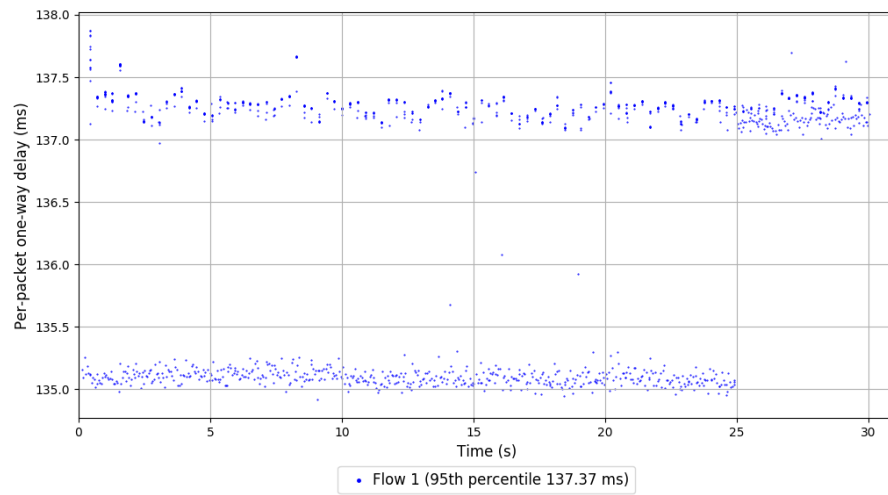
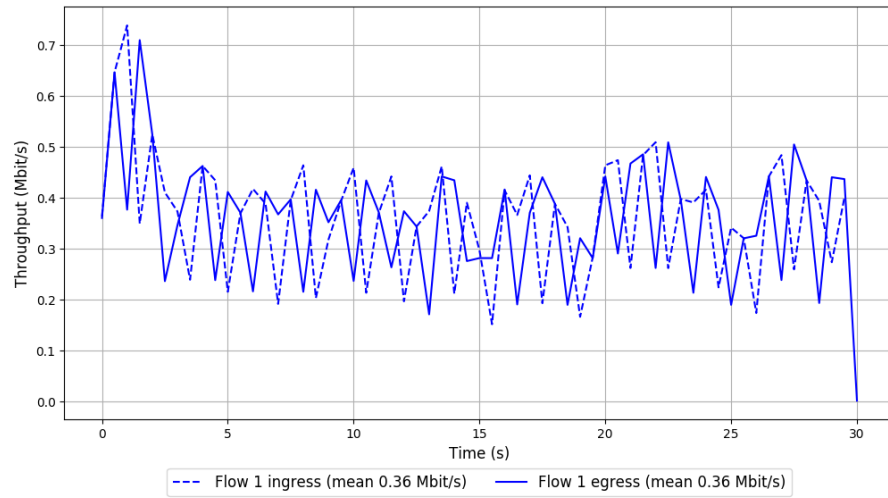
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 137.373 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-03 20:48:45

End at: 2018-04-03 20:49:15

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.896 ms

Loss rate: 0.00%

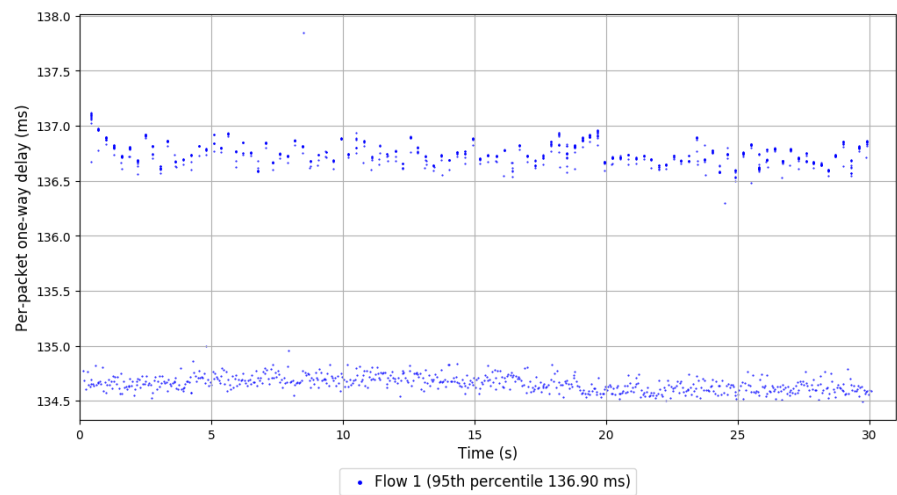
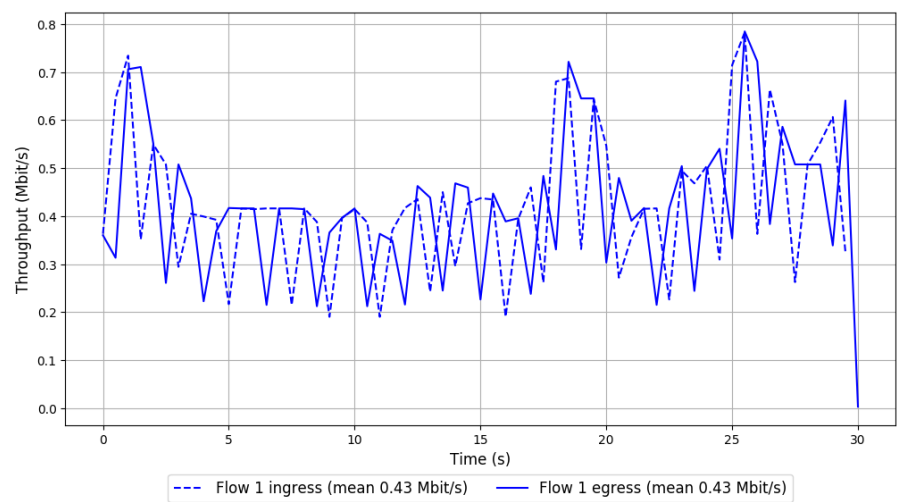
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 136.896 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-03 21:04:30

End at: 2018-04-03 21:05:00

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.735 ms

Loss rate: 0.00%

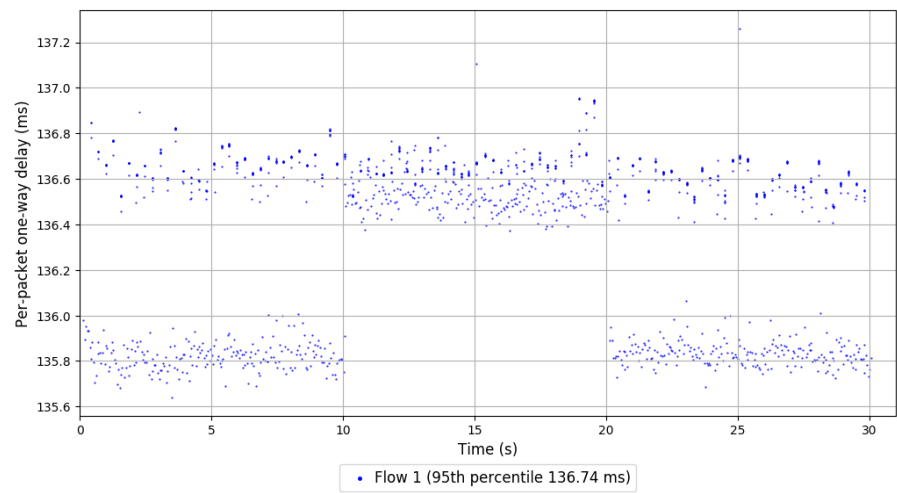
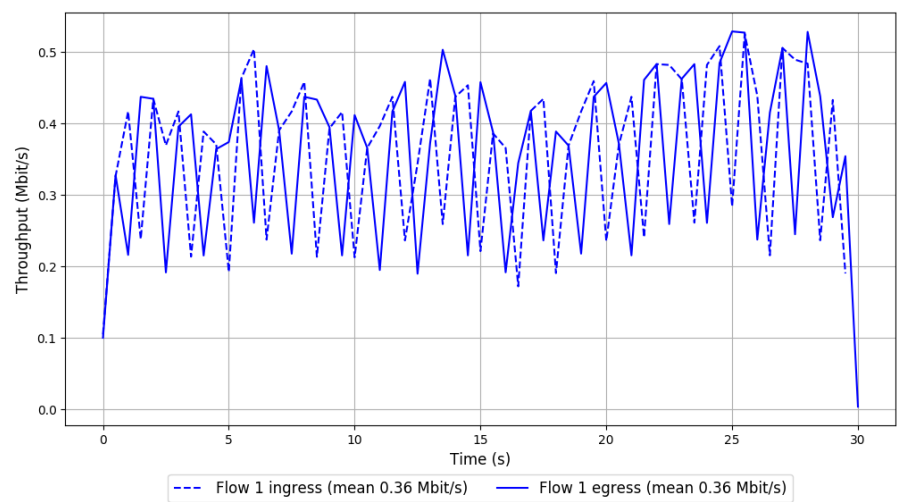
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.735 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

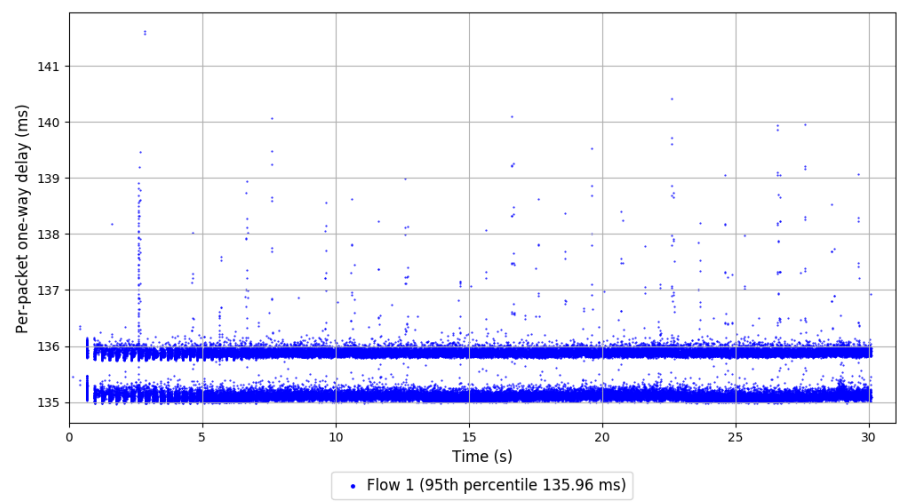
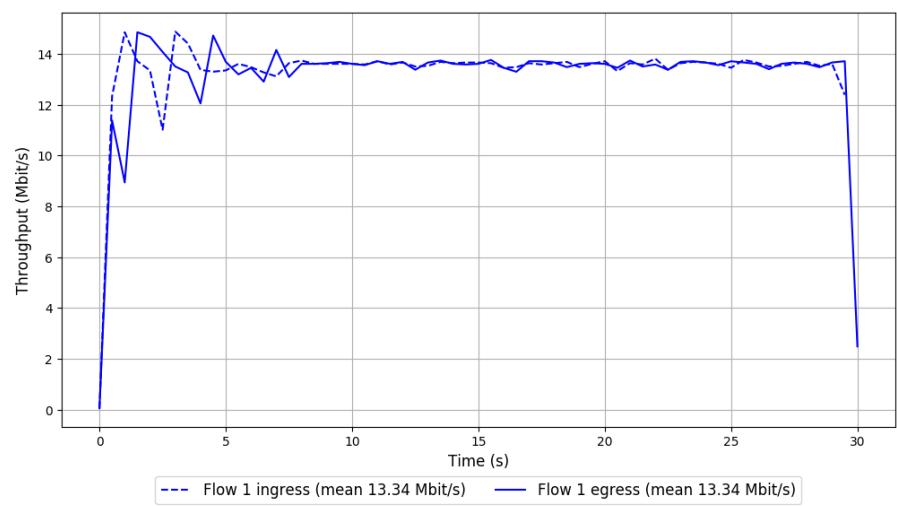


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-03 18:46:16
End at: 2018-04-03 18:46:46

# Below is generated by plot.py at 2018-04-03 23:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 135.962 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.34 Mbit/s
95th percentile per-packet one-way delay: 135.962 ms
Loss rate: 0.00%
```


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

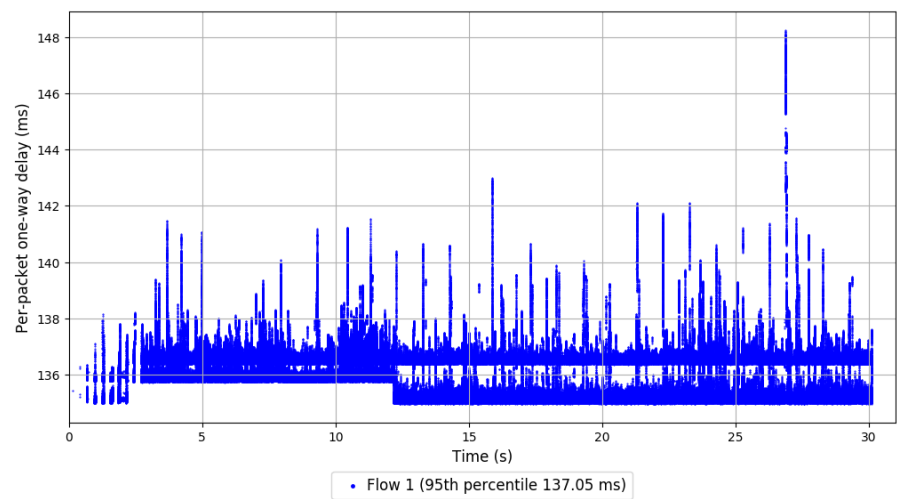
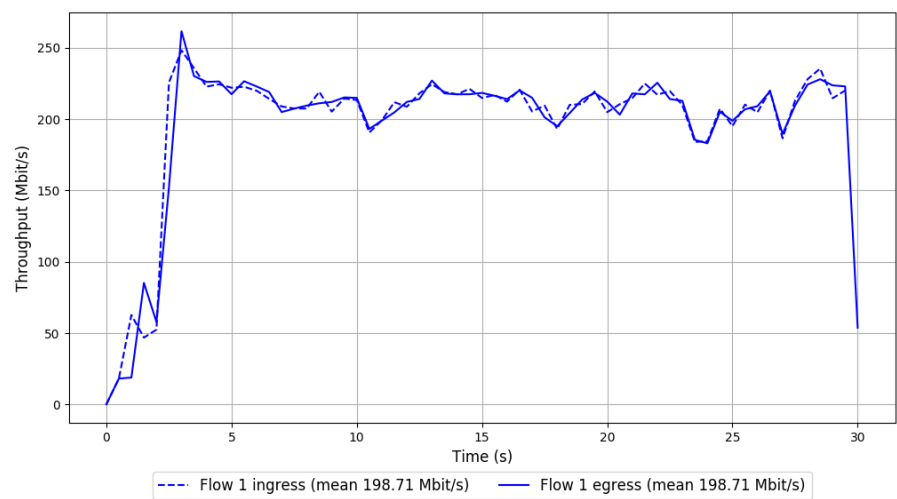


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-03 19:02:08
End at: 2018-04-03 19:02:38

# Below is generated by plot.py at 2018-04-03 23:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.71 Mbit/s
95th percentile per-packet one-way delay: 137.053 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.71 Mbit/s
95th percentile per-packet one-way delay: 137.053 ms
Loss rate: 0.00%
```

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

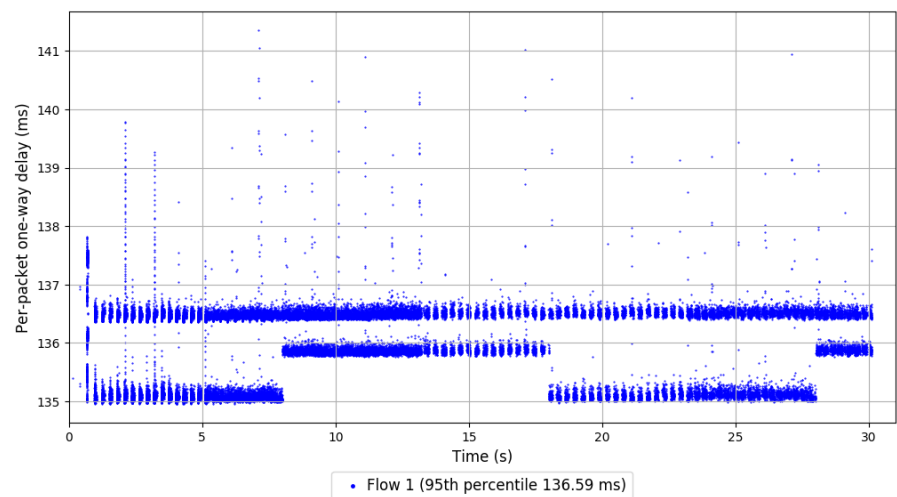
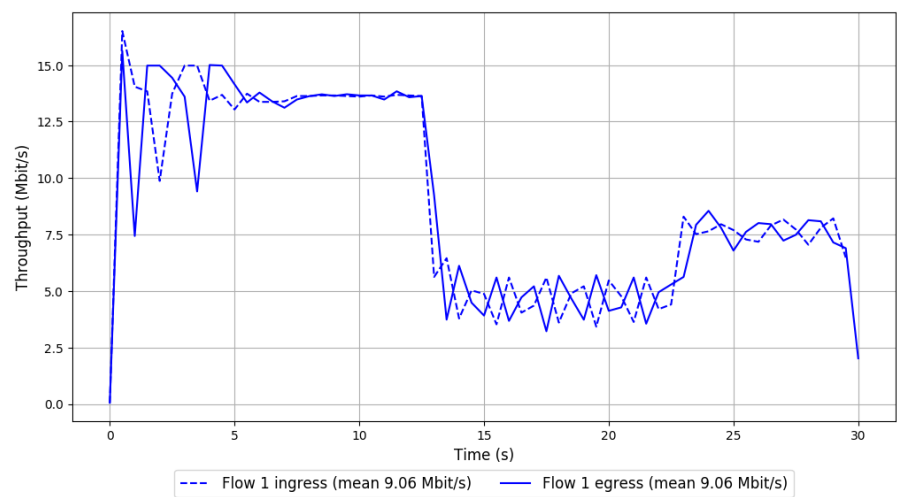


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-04-03 19:18:12
End at: 2018-04-03 19:18:42

# Below is generated by plot.py at 2018-04-03 23:06:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 136.586 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 9.06 Mbit/s
95th percentile per-packet one-way delay: 136.586 ms
Loss rate: 0.01%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-03 19:34:09

End at: 2018-04-03 19:34:39

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.08 Mbit/s

95th percentile per-packet one-way delay: 136.357 ms

Loss rate: 0.00%

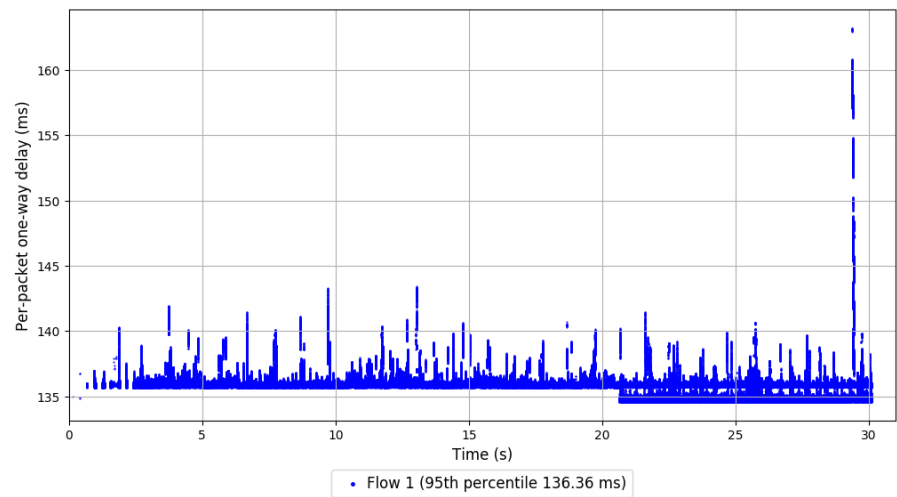
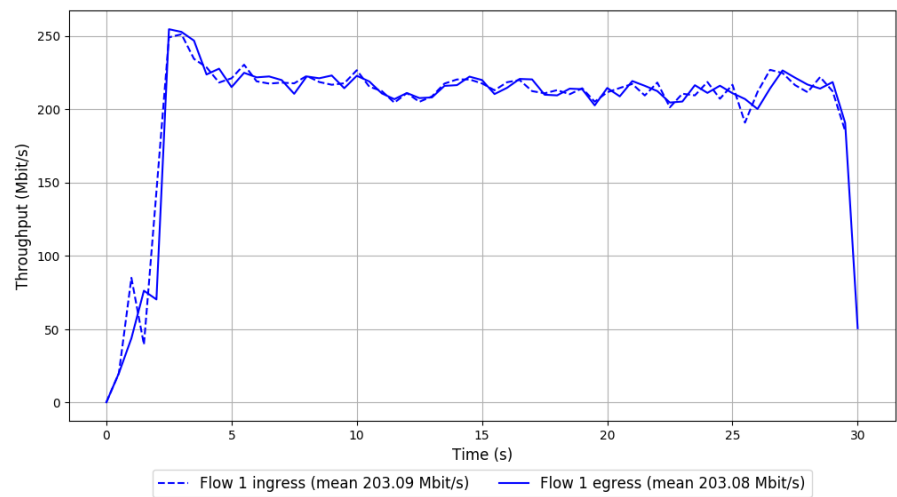
-- Flow 1:

Average throughput: 203.08 Mbit/s

95th percentile per-packet one-way delay: 136.357 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-03 19:49:49

End at: 2018-04-03 19:50:19

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.16 Mbit/s

95th percentile per-packet one-way delay: 136.359 ms

Loss rate: 0.09%

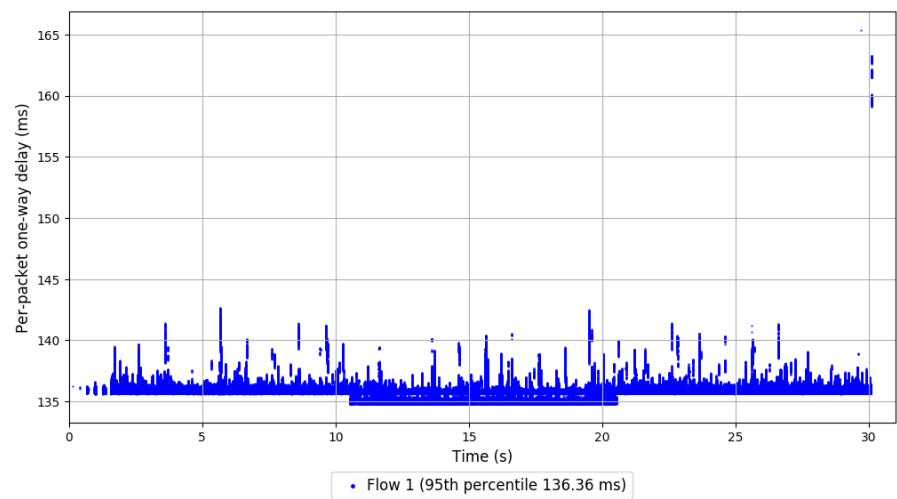
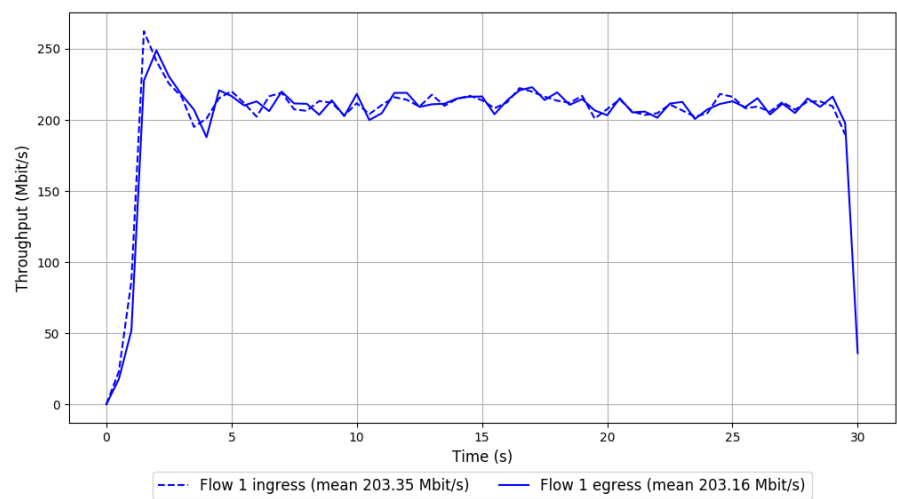
-- Flow 1:

Average throughput: 203.16 Mbit/s

95th percentile per-packet one-way delay: 136.359 ms

Loss rate: 0.09%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-03 20:05:52

End at: 2018-04-03 20:06:22

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.56 Mbit/s

95th percentile per-packet one-way delay: 137.418 ms

Loss rate: 0.00%

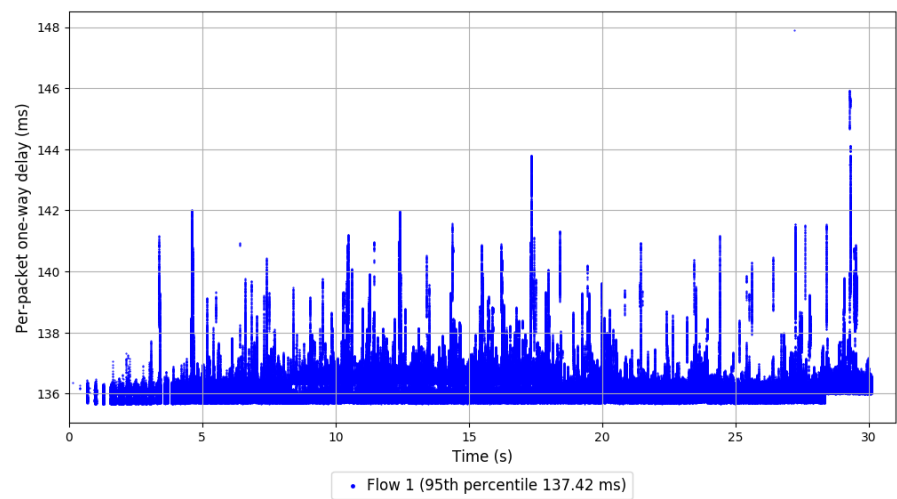
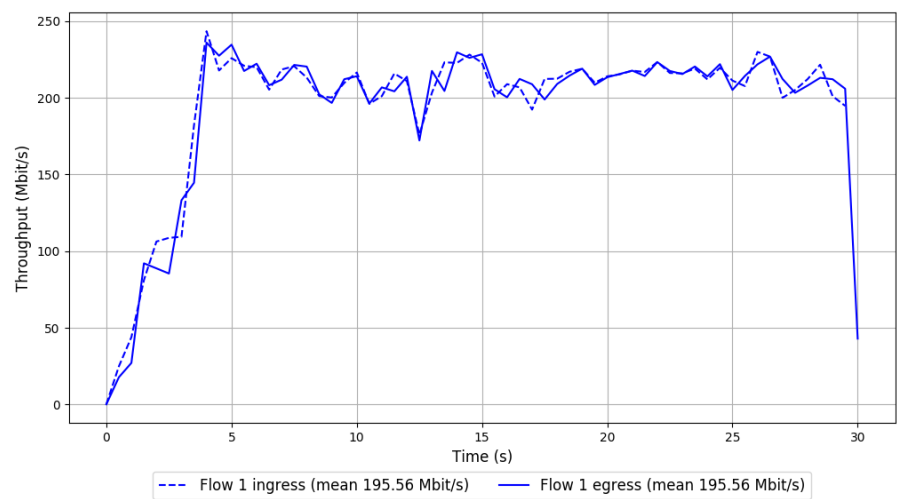
-- Flow 1:

Average throughput: 195.56 Mbit/s

95th percentile per-packet one-way delay: 137.418 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-03 20:21:56

End at: 2018-04-03 20:22:27

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 0.00%

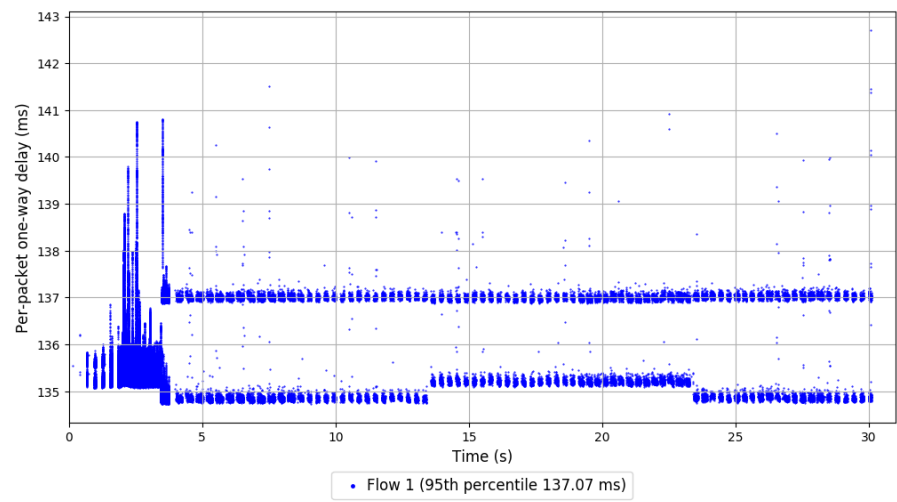
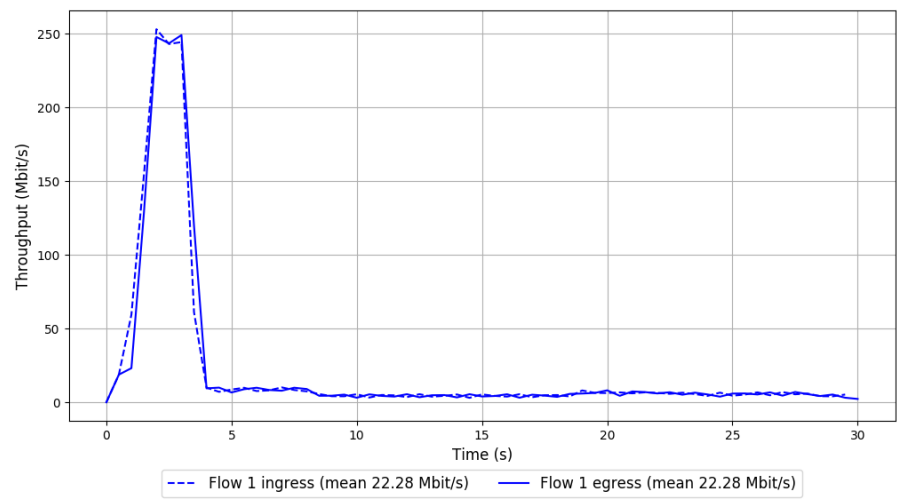
-- Flow 1:

Average throughput: 22.28 Mbit/s

95th percentile per-packet one-way delay: 137.073 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-03 20:37:39

End at: 2018-04-03 20:38:09

Below is generated by plot.py at 2018-04-03 23:06:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 137.095 ms

Loss rate: 0.00%

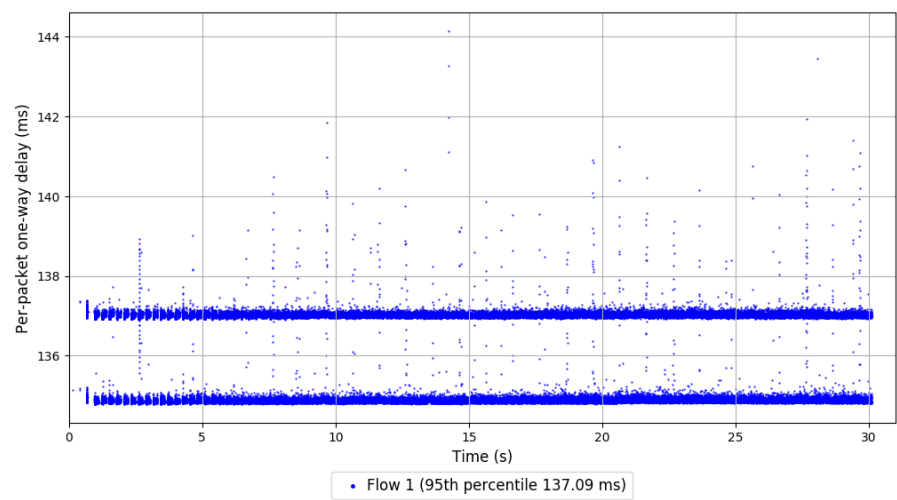
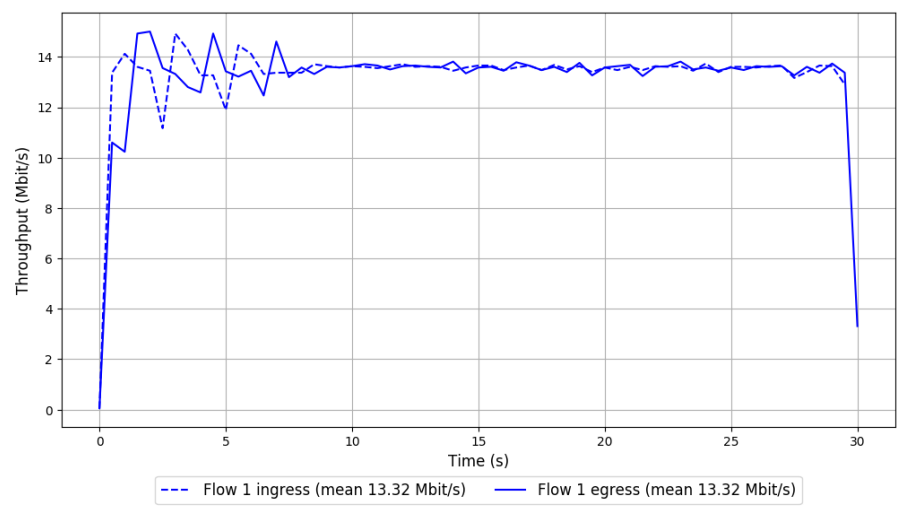
-- Flow 1:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 137.095 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-03 20:53:34

End at: 2018-04-03 20:54:04

Below is generated by plot.py at 2018-04-03 23:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.85 Mbit/s

95th percentile per-packet one-way delay: 137.230 ms

Loss rate: 0.00%

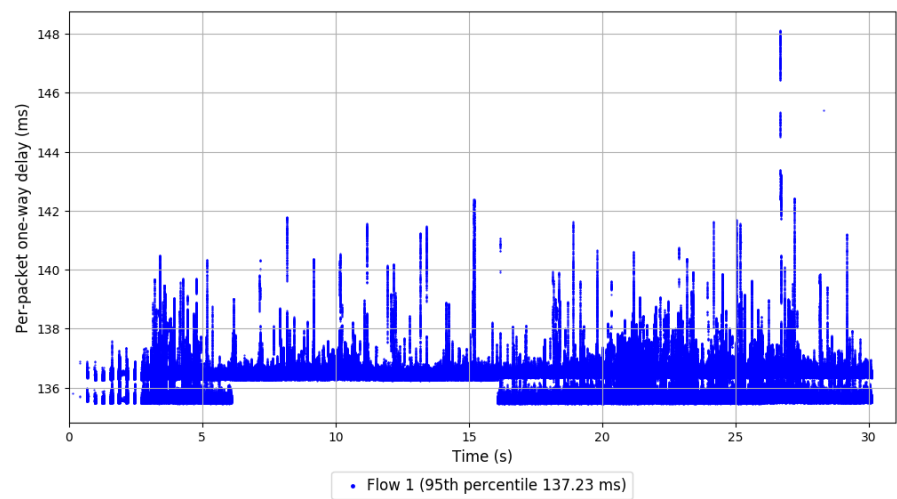
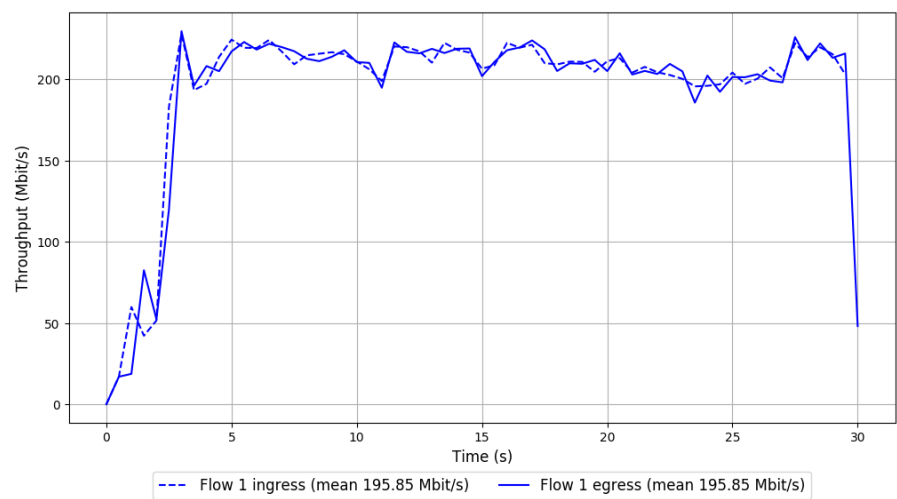
-- Flow 1:

Average throughput: 195.85 Mbit/s

95th percentile per-packet one-way delay: 137.230 ms

Loss rate: 0.00%

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

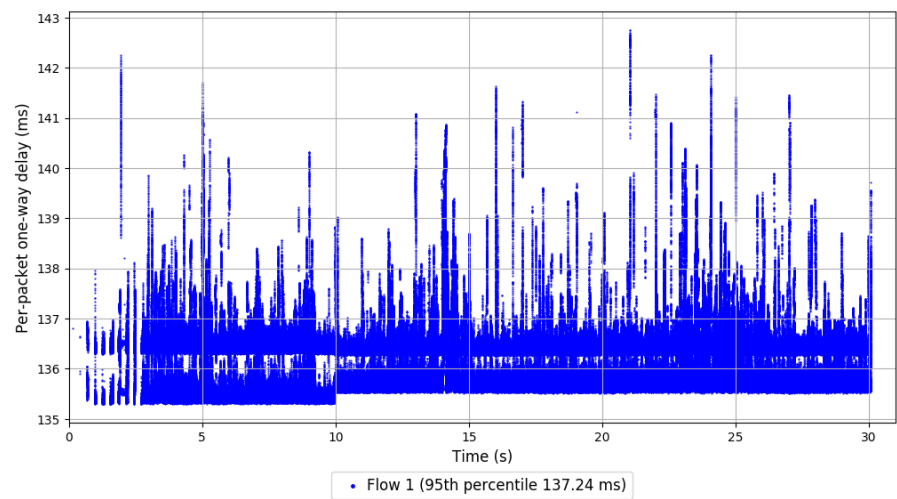
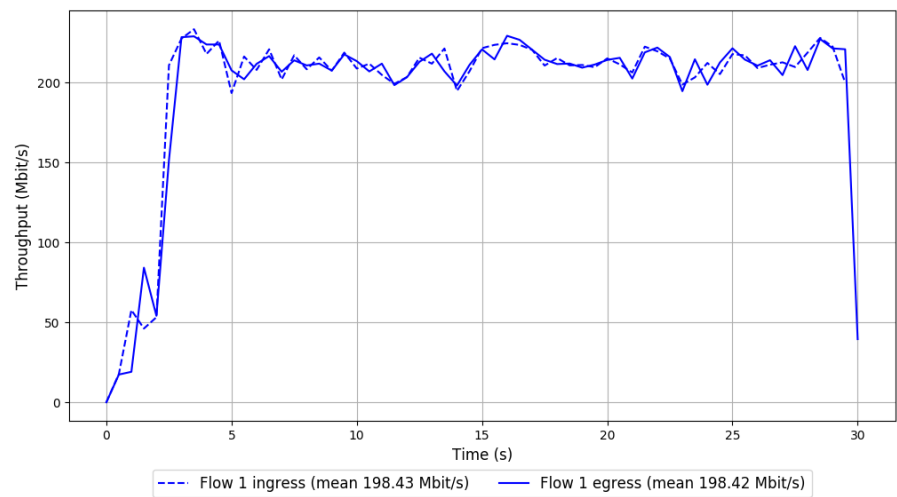


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-03 21:09:20
End at: 2018-04-03 21:09:50

# Below is generated by plot.py at 2018-04-03 23:06:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.42 Mbit/s
95th percentile per-packet one-way delay: 137.243 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 198.42 Mbit/s
95th percentile per-packet one-way delay: 137.243 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-03 18:43:09

End at: 2018-04-03 18:43:39

Below is generated by plot.py at 2018-04-03 23:06:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.53 Mbit/s

95th percentile per-packet one-way delay: 139.150 ms

Loss rate: 0.00%

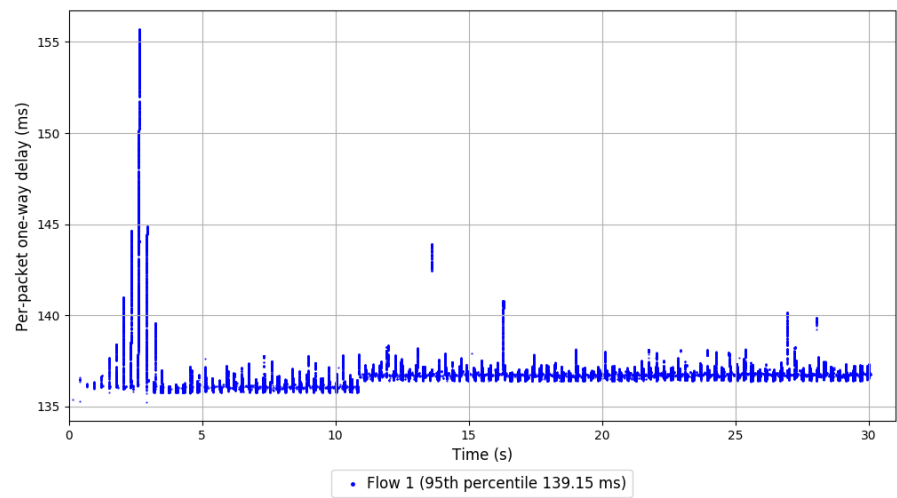
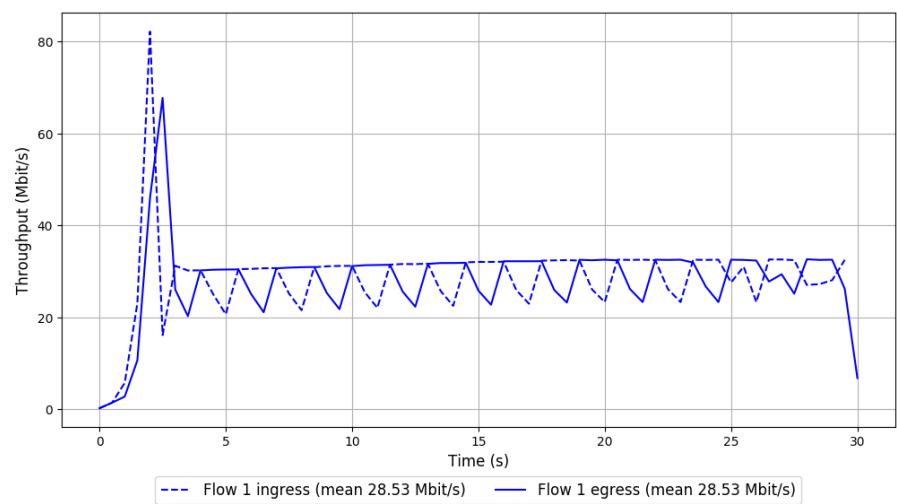
-- Flow 1:

Average throughput: 28.53 Mbit/s

95th percentile per-packet one-way delay: 139.150 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-03 18:58:56

End at: 2018-04-03 18:59:26

Below is generated by plot.py at 2018-04-03 23:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 144.284 ms

Loss rate: 0.01%

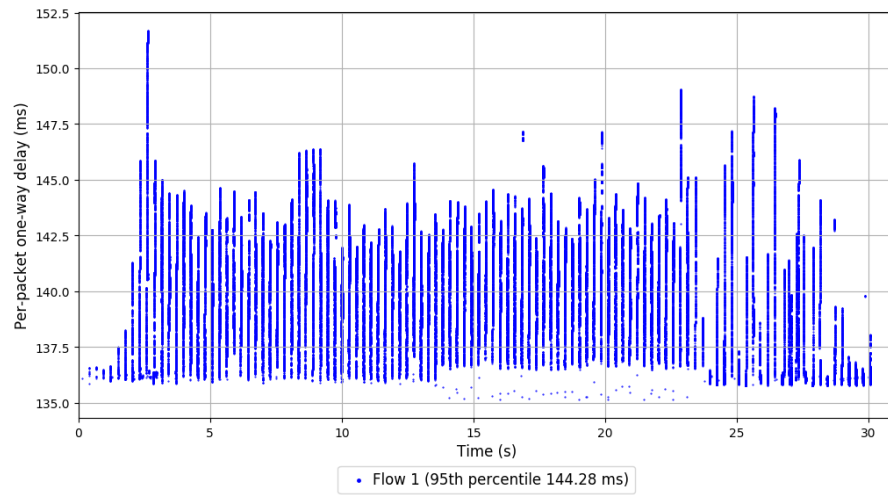
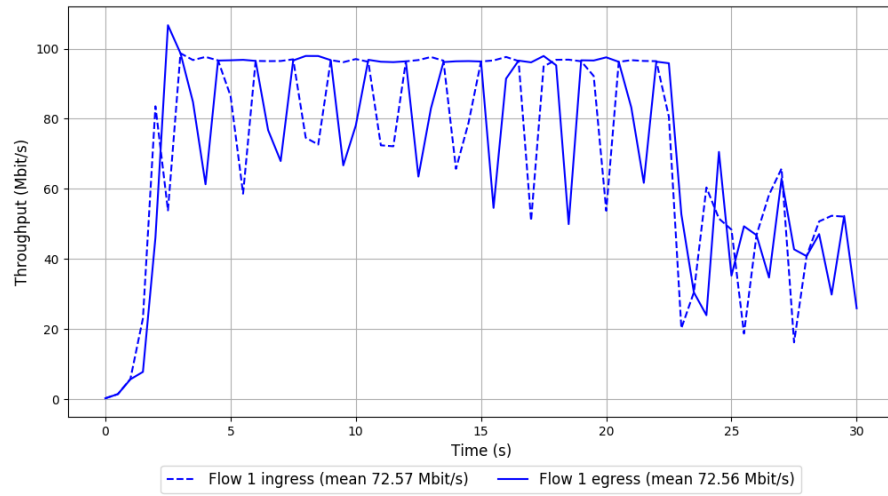
-- Flow 1:

Average throughput: 72.56 Mbit/s

95th percentile per-packet one-way delay: 144.284 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-03 19:15:01

End at: 2018-04-03 19:15:31

Below is generated by plot.py at 2018-04-03 23:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 138.442 ms

Loss rate: 0.00%

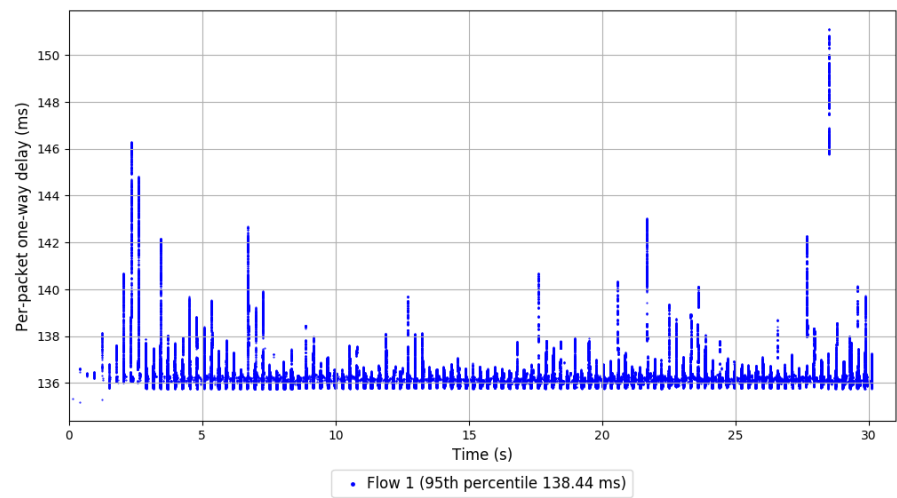
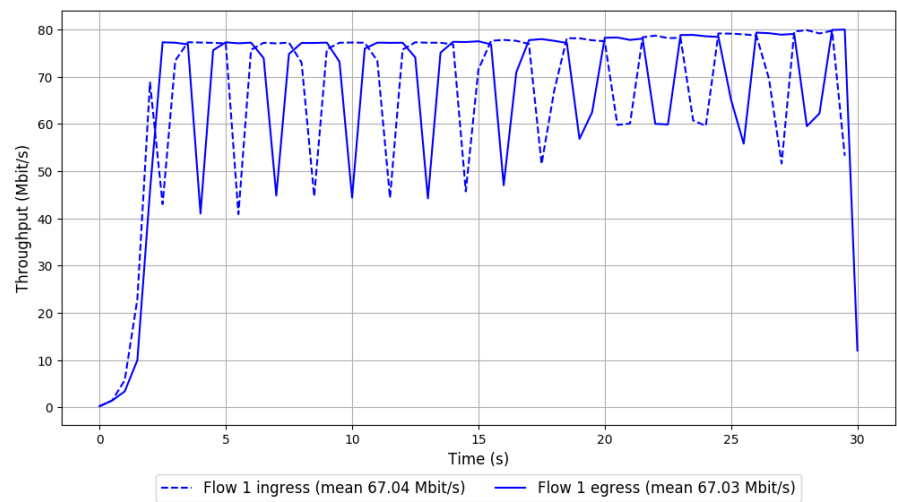
-- Flow 1:

Average throughput: 67.03 Mbit/s

95th percentile per-packet one-way delay: 138.442 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-03 19:31:00

End at: 2018-04-03 19:31:30

Below is generated by plot.py at 2018-04-03 23:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.93 Mbit/s

95th percentile per-packet one-way delay: 138.636 ms

Loss rate: 0.00%

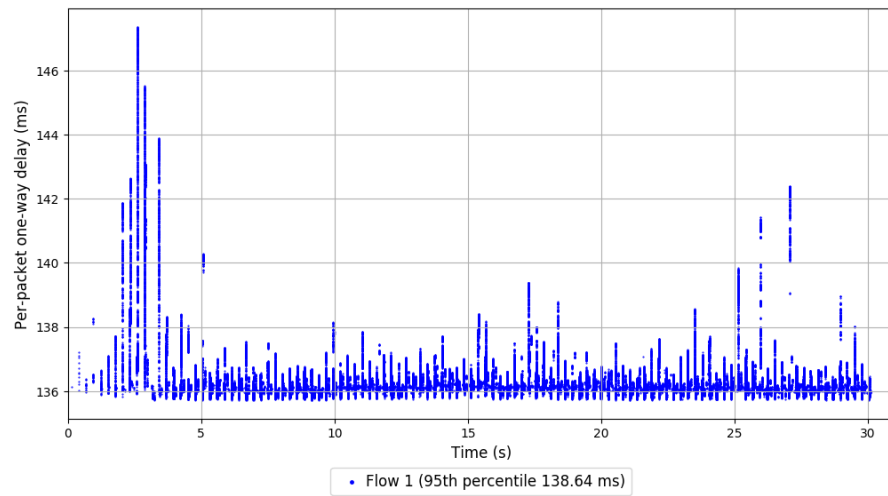
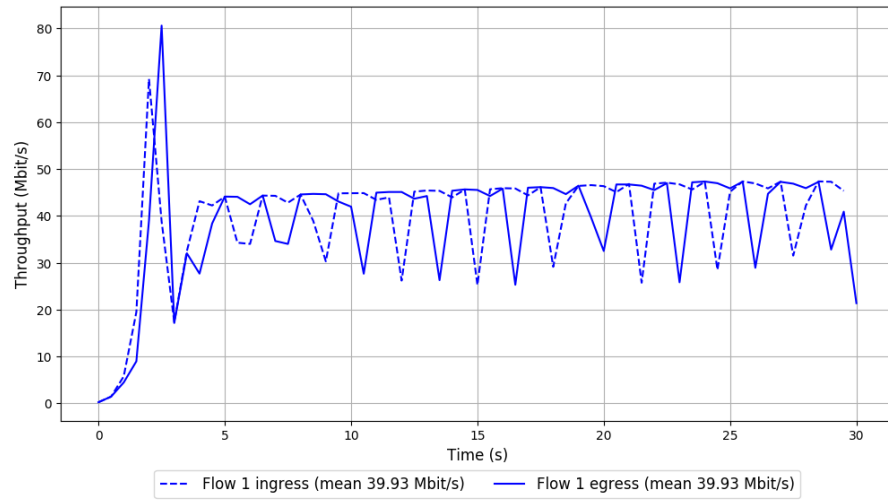
-- Flow 1:

Average throughput: 39.93 Mbit/s

95th percentile per-packet one-way delay: 138.636 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-03 19:46:38

End at: 2018-04-03 19:47:08

Below is generated by plot.py at 2018-04-03 23:07:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.95 Mbit/s

95th percentile per-packet one-way delay: 145.341 ms

Loss rate: 0.03%

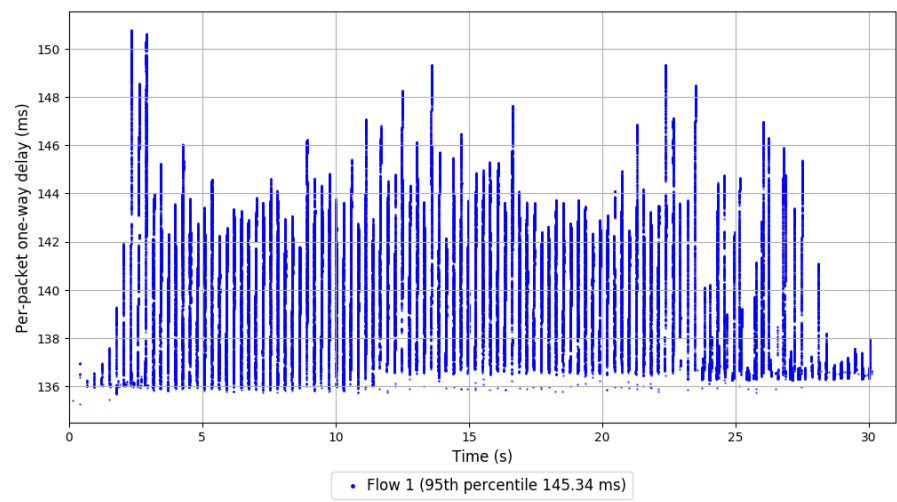
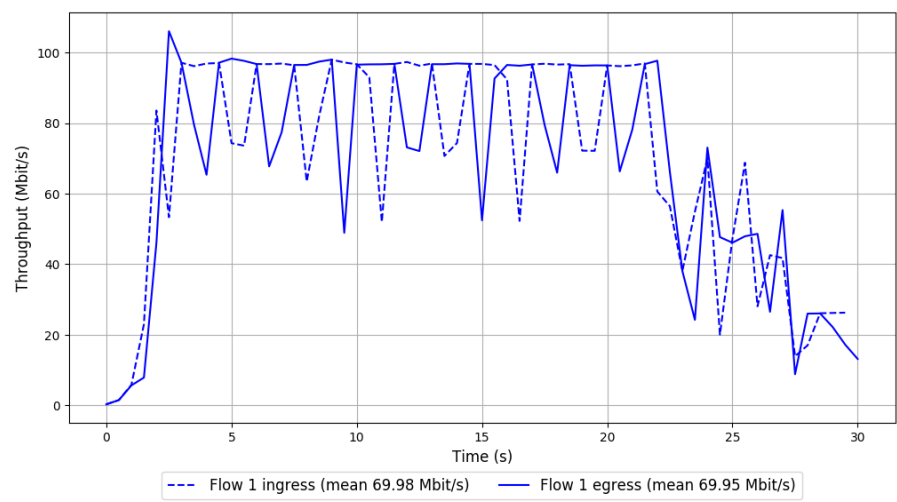
-- Flow 1:

Average throughput: 69.95 Mbit/s

95th percentile per-packet one-way delay: 145.341 ms

Loss rate: 0.03%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-03 20:02:43

End at: 2018-04-03 20:03:13

Below is generated by plot.py at 2018-04-03 23:07:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 138.546 ms

Loss rate: 0.00%

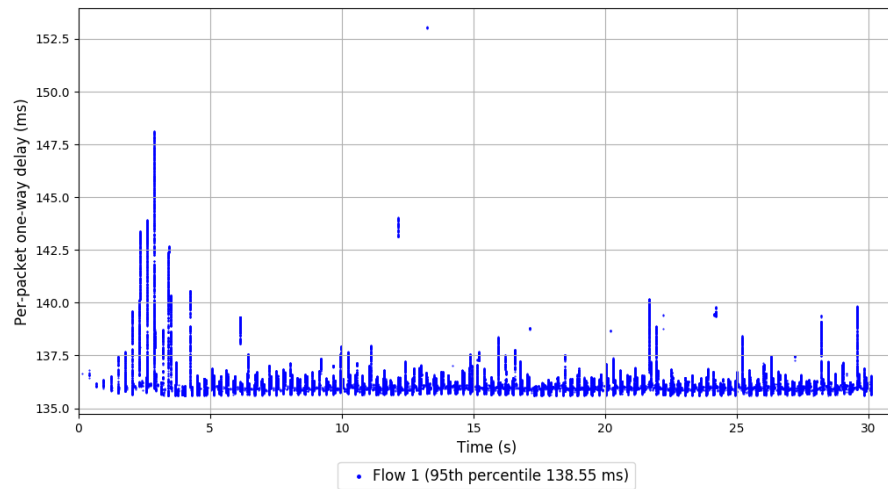
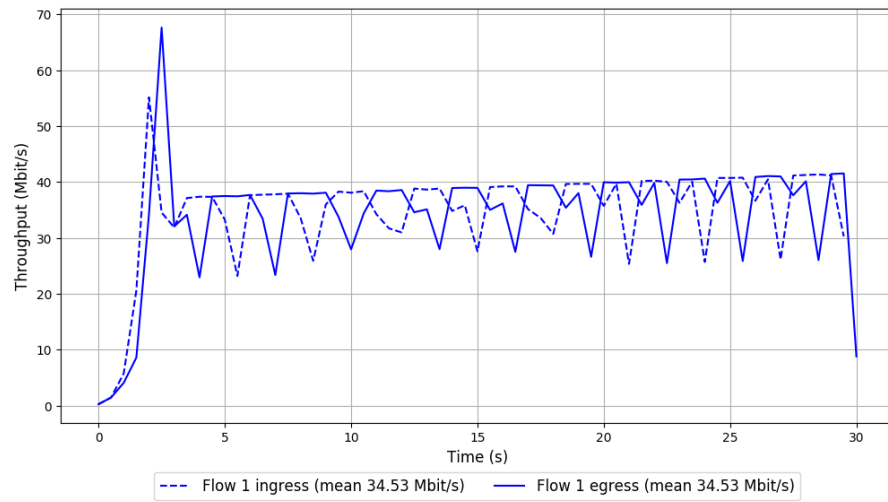
-- Flow 1:

Average throughput: 34.53 Mbit/s

95th percentile per-packet one-way delay: 138.546 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-03 20:18:47

End at: 2018-04-03 20:19:17

Below is generated by plot.py at 2018-04-03 23:07:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 138.990 ms

Loss rate: 0.00%

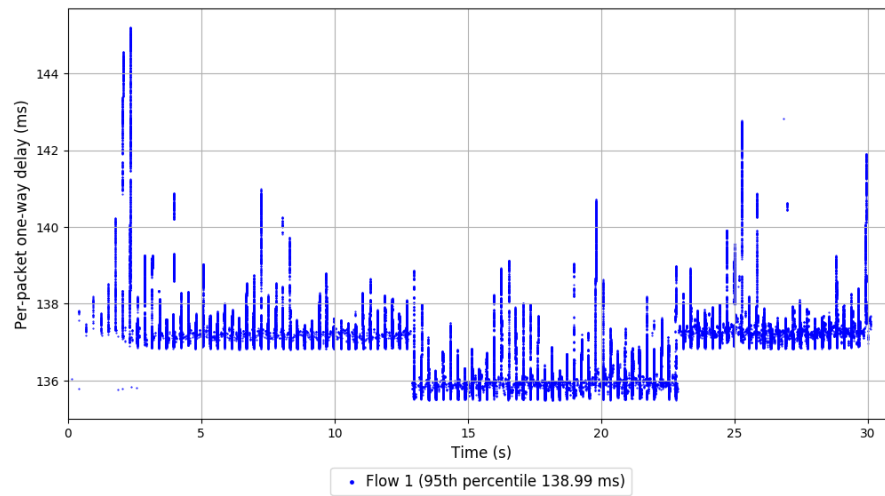
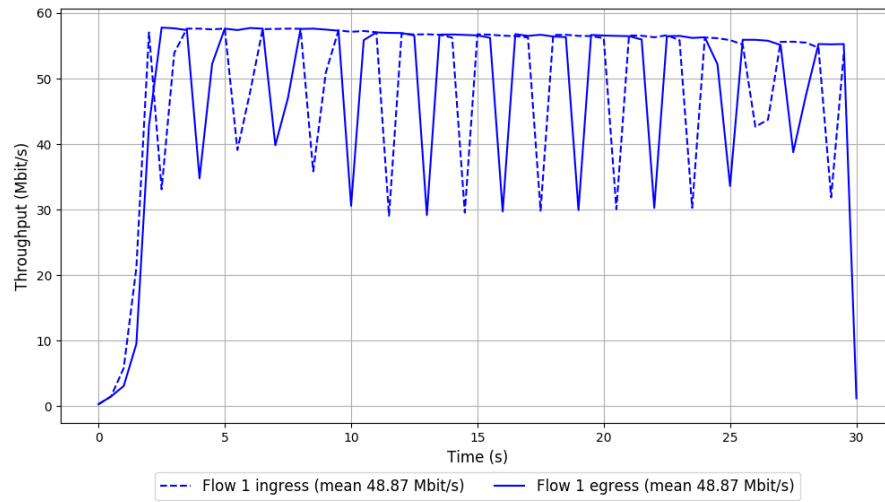
-- Flow 1:

Average throughput: 48.87 Mbit/s

95th percentile per-packet one-way delay: 138.990 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-03 20:34:28

End at: 2018-04-03 20:34:58

Below is generated by plot.py at 2018-04-03 23:08:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 147.128 ms

Loss rate: 0.00%

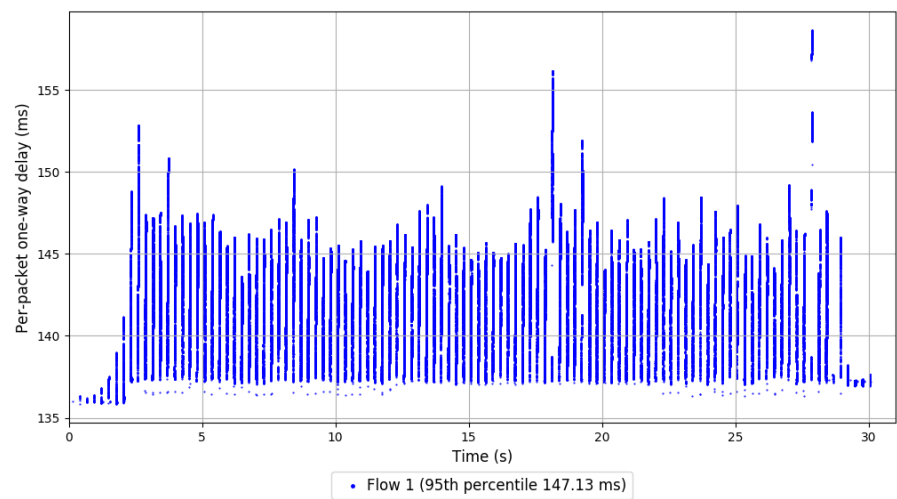
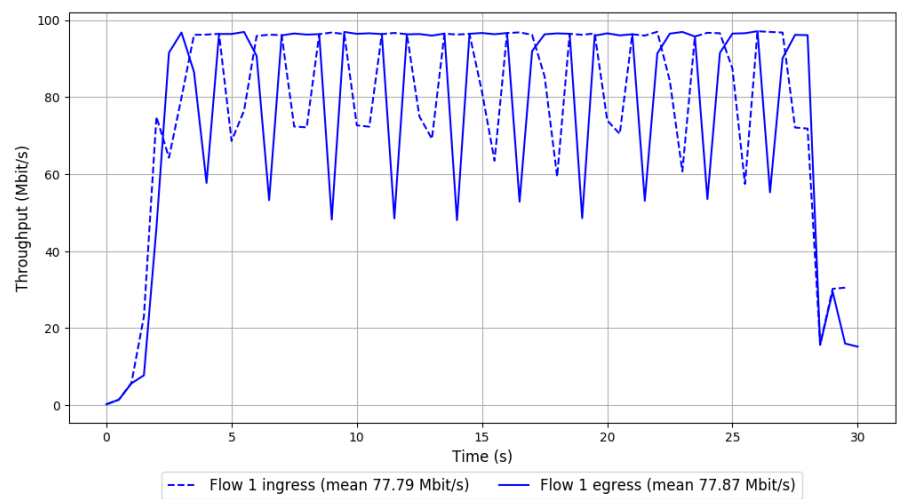
-- Flow 1:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 147.128 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-03 20:50:22

End at: 2018-04-03 20:50:52

Below is generated by plot.py at 2018-04-03 23:08:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 145.176 ms

Loss rate: 0.00%

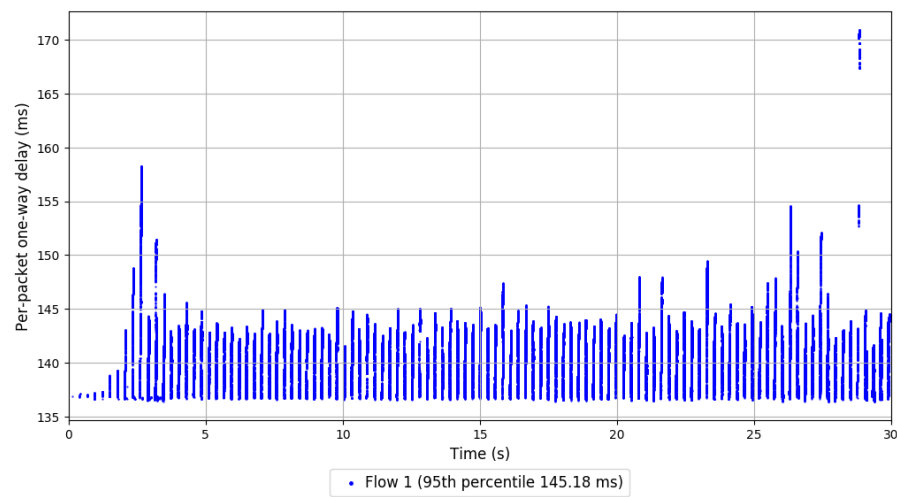
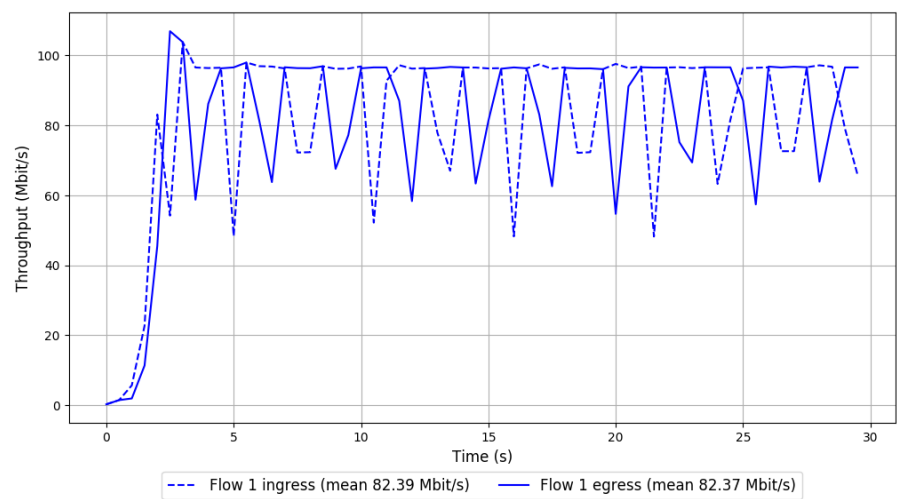
-- Flow 1:

Average throughput: 82.37 Mbit/s

95th percentile per-packet one-way delay: 145.176 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-03 21:06:08

End at: 2018-04-03 21:06:38

Below is generated by plot.py at 2018-04-03 23:08:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.14 Mbit/s

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

Loss rate: 0.00%

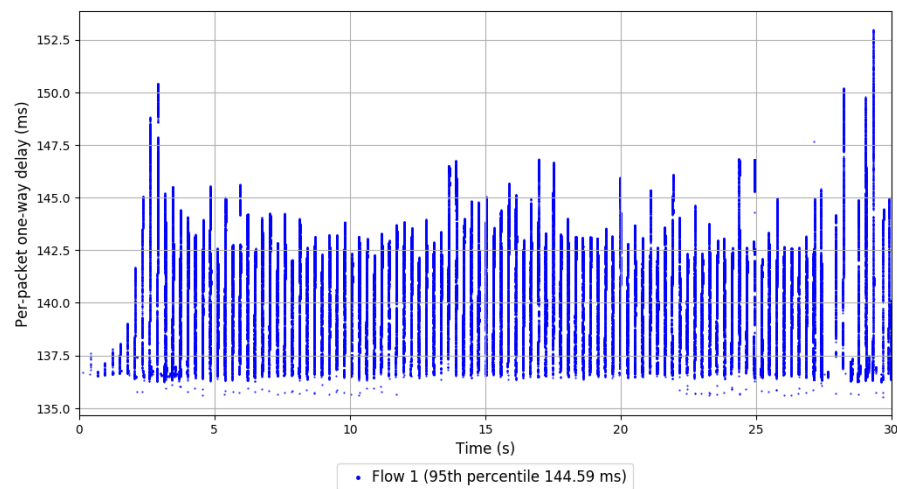
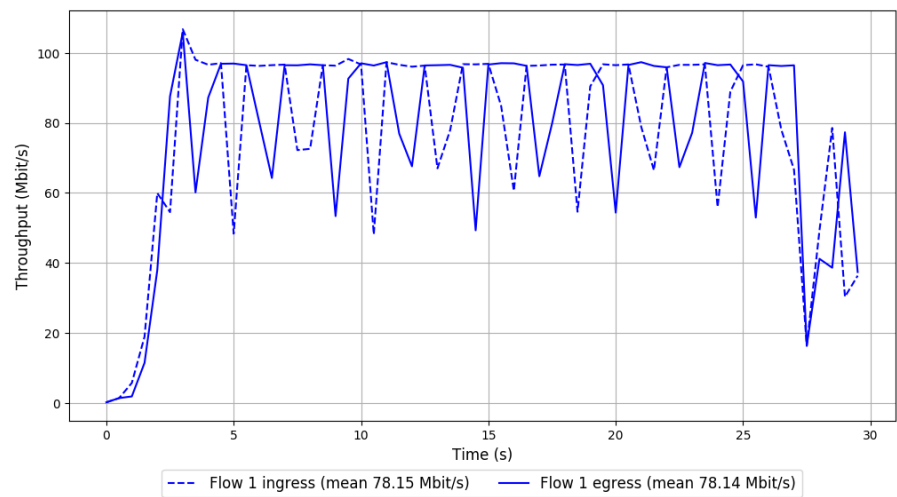
-- Flow 1:

Average throughput: 78.14 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-03 18:42:11

End at: 2018-04-03 18:42:41

Below is generated by plot.py at 2018-04-03 23:11:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.95 Mbit/s

95th percentile per-packet one-way delay: 166.045 ms

Loss rate: 0.01%

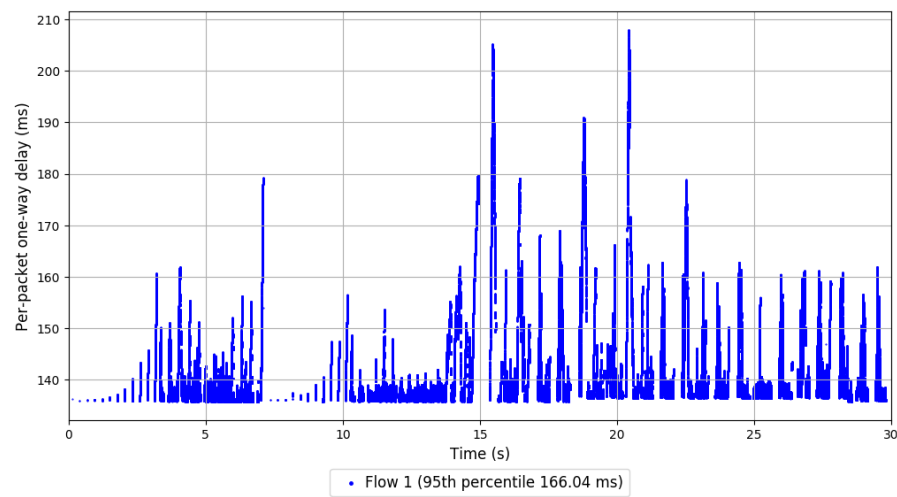
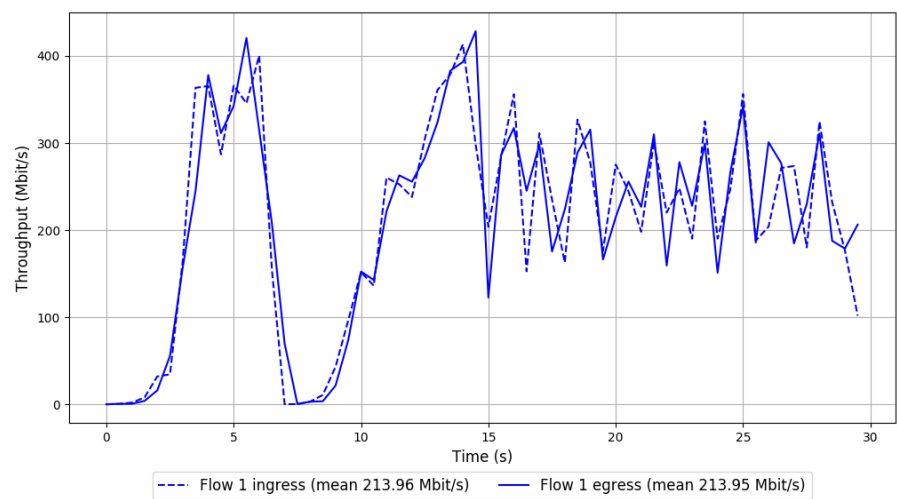
-- Flow 1:

Average throughput: 213.95 Mbit/s

95th percentile per-packet one-way delay: 166.045 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-03 18:58:04

End at: 2018-04-03 18:58:34

Below is generated by plot.py at 2018-04-03 23:11:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.69 Mbit/s

95th percentile per-packet one-way delay: 249.968 ms

Loss rate: 0.20%

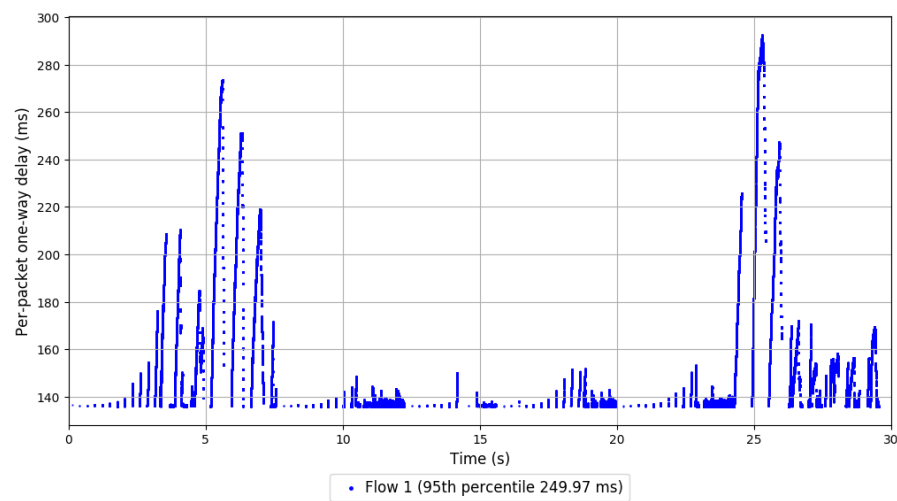
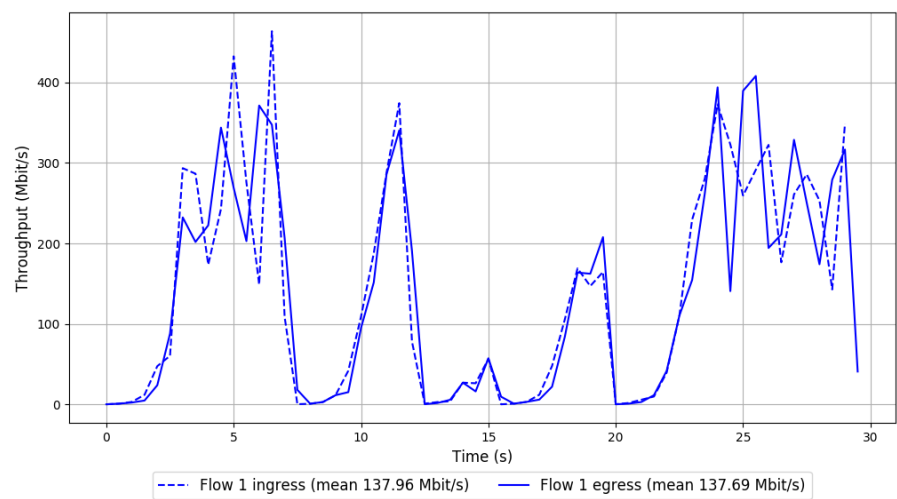
-- Flow 1:

Average throughput: 137.69 Mbit/s

95th percentile per-packet one-way delay: 249.968 ms

Loss rate: 0.20%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-03 19:14:13

End at: 2018-04-03 19:14:43

Below is generated by plot.py at 2018-04-03 23:11:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.97 Mbit/s

95th percentile per-packet one-way delay: 306.622 ms

Loss rate: 1.75%

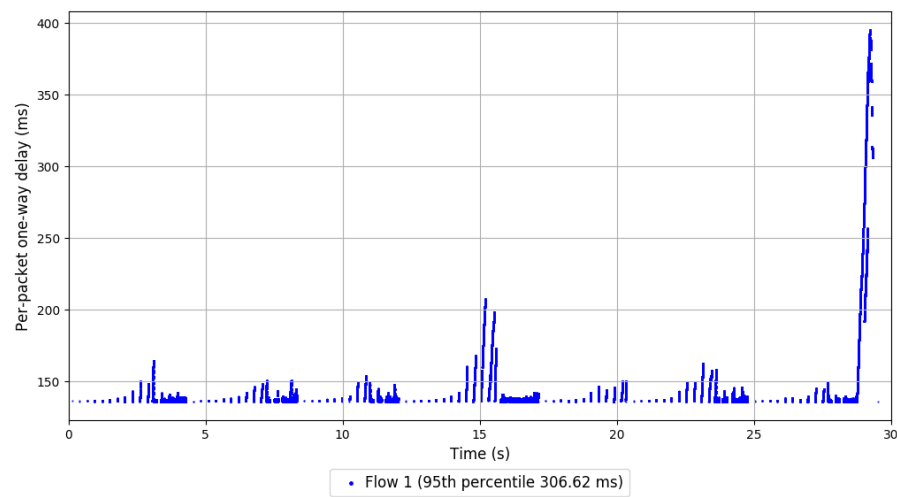
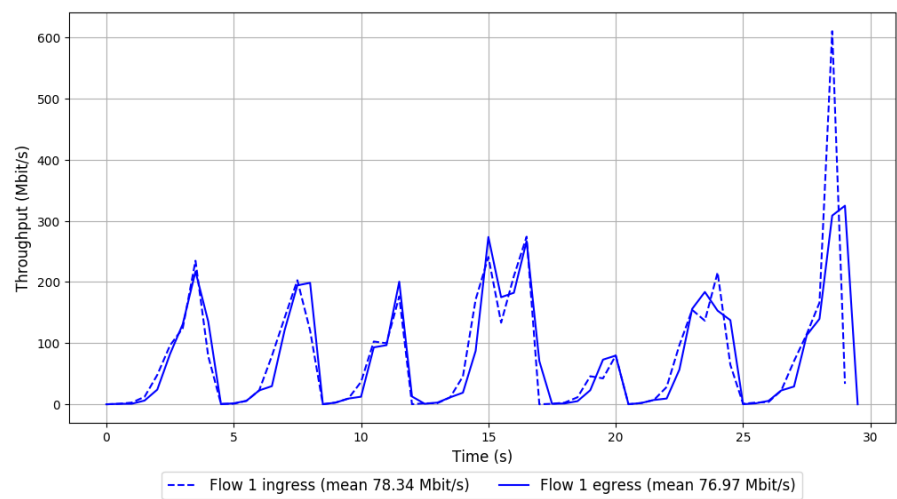
-- Flow 1:

Average throughput: 76.97 Mbit/s

95th percentile per-packet one-way delay: 306.622 ms

Loss rate: 1.75%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-03 19:29:59

End at: 2018-04-03 19:30:29

Below is generated by plot.py at 2018-04-03 23:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.55 Mbit/s

95th percentile per-packet one-way delay: 292.871 ms

Loss rate: 4.37%

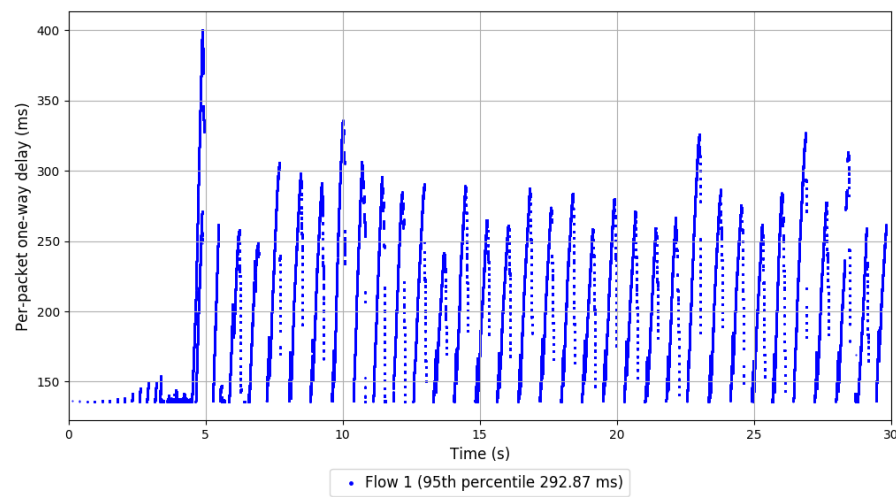
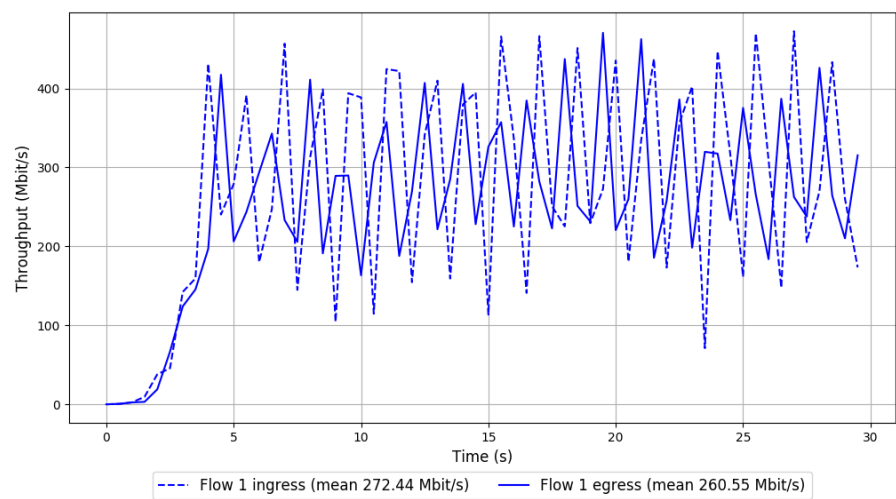
-- Flow 1:

Average throughput: 260.55 Mbit/s

95th percentile per-packet one-way delay: 292.871 ms

Loss rate: 4.37%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-03 19:45:46

End at: 2018-04-03 19:46:16

Below is generated by plot.py at 2018-04-03 23:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.11 Mbit/s

95th percentile per-packet one-way delay: 156.034 ms

Loss rate: 0.00%

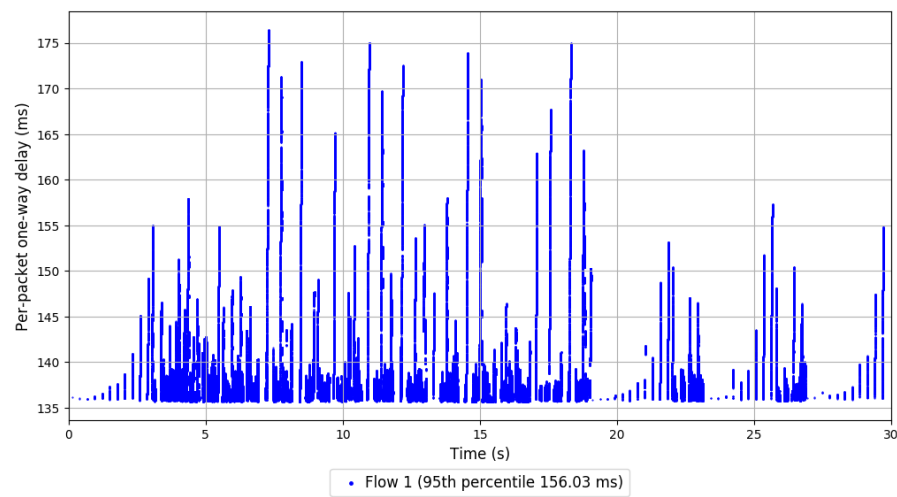
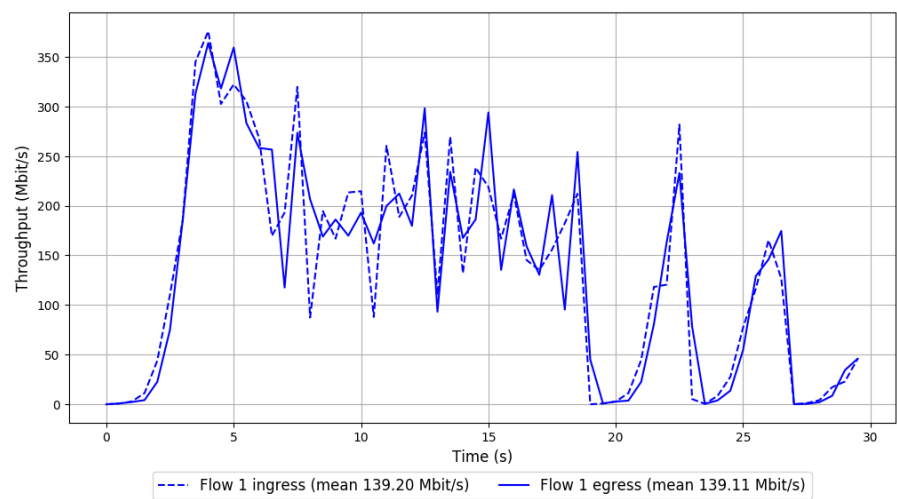
-- Flow 1:

Average throughput: 139.11 Mbit/s

95th percentile per-packet one-way delay: 156.034 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-03 20:01:48

End at: 2018-04-03 20:02:18

Below is generated by plot.py at 2018-04-03 23:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.33 Mbit/s

95th percentile per-packet one-way delay: 172.845 ms

Loss rate: 0.02%

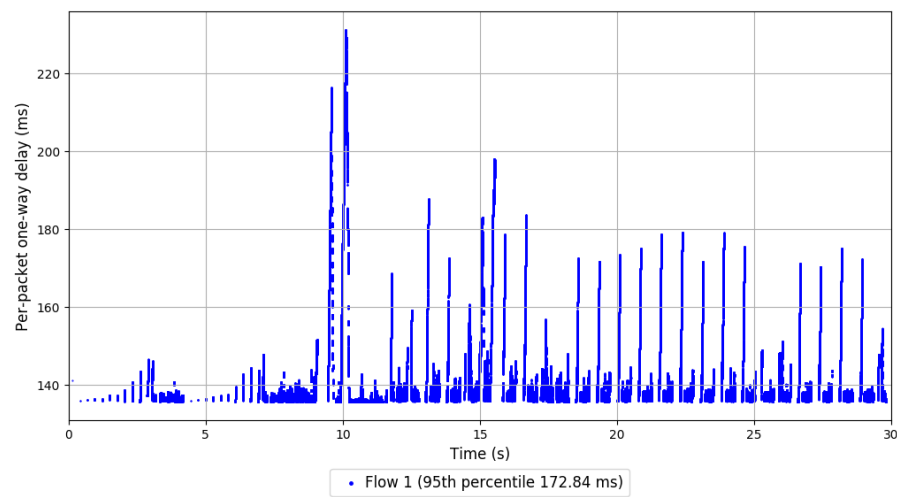
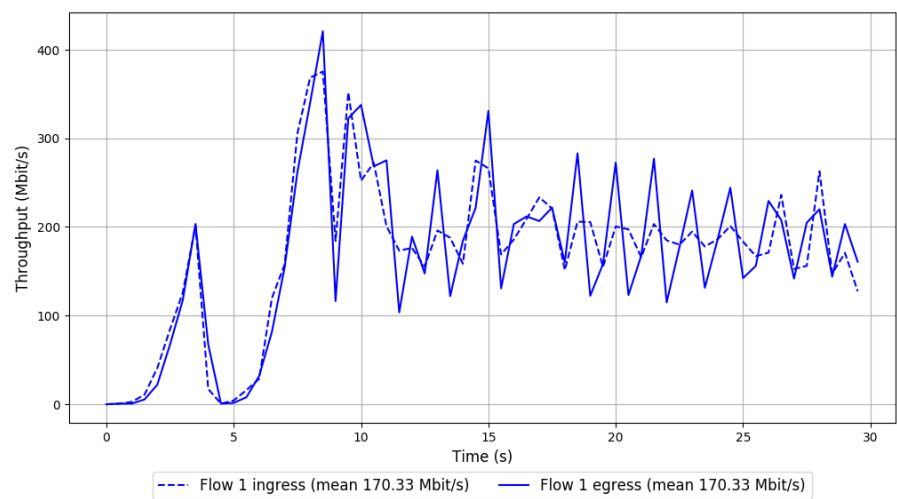
-- Flow 1:

Average throughput: 170.33 Mbit/s

95th percentile per-packet one-way delay: 172.845 ms

Loss rate: 0.02%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-03 20:17:50

End at: 2018-04-03 20:18:20

Below is generated by plot.py at 2018-04-03 23:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.92 Mbit/s

95th percentile per-packet one-way delay: 174.712 ms

Loss rate: 0.00%

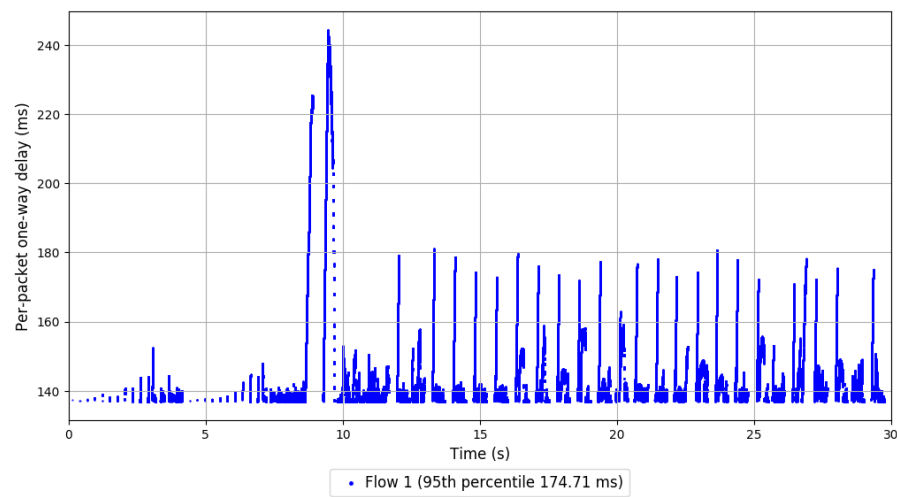
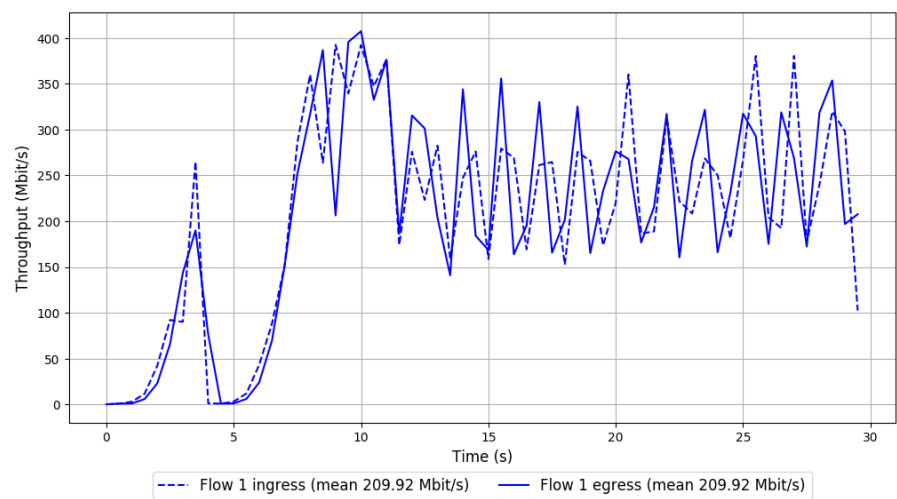
-- Flow 1:

Average throughput: 209.92 Mbit/s

95th percentile per-packet one-way delay: 174.712 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-03 20:33:37

End at: 2018-04-03 20:34:07

Below is generated by plot.py at 2018-04-03 23:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.77 Mbit/s

95th percentile per-packet one-way delay: 153.104 ms

Loss rate: 0.00%

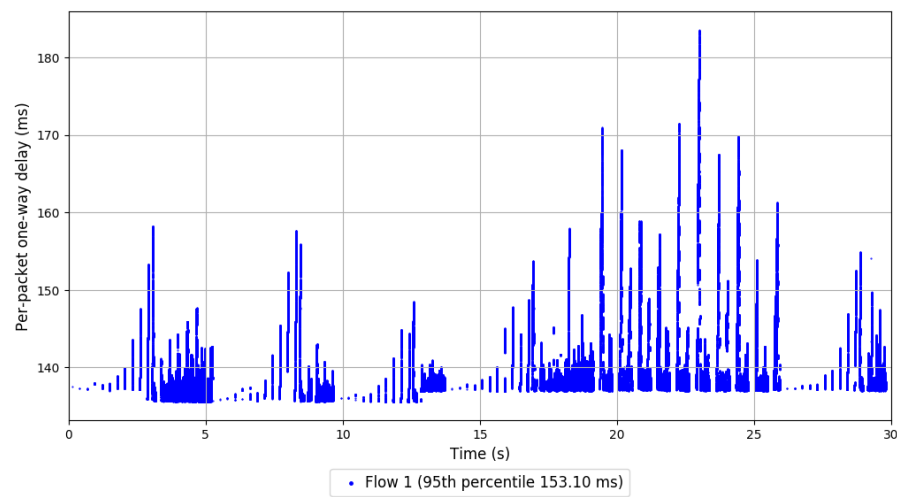
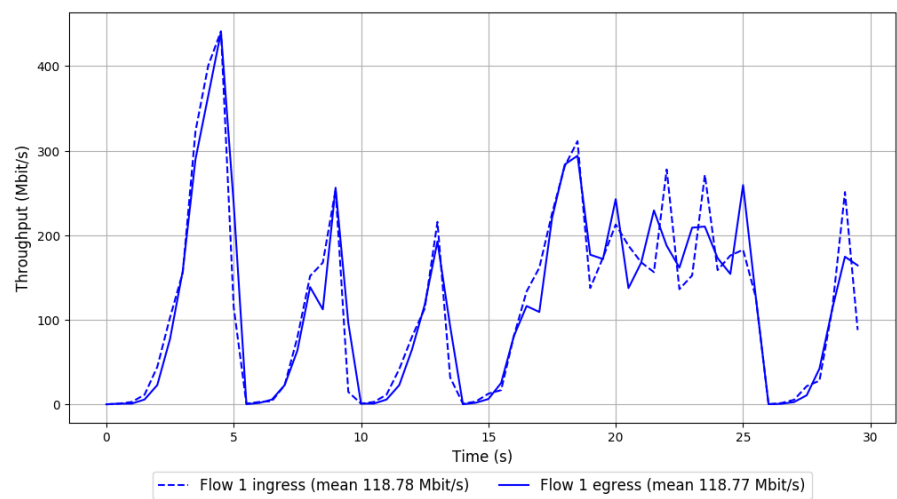
-- Flow 1:

Average throughput: 118.77 Mbit/s

95th percentile per-packet one-way delay: 153.104 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-03 20:49:27

End at: 2018-04-03 20:49:57

Below is generated by plot.py at 2018-04-03 23:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.15 Mbit/s

95th percentile per-packet one-way delay: 181.479 ms

Loss rate: 0.00%

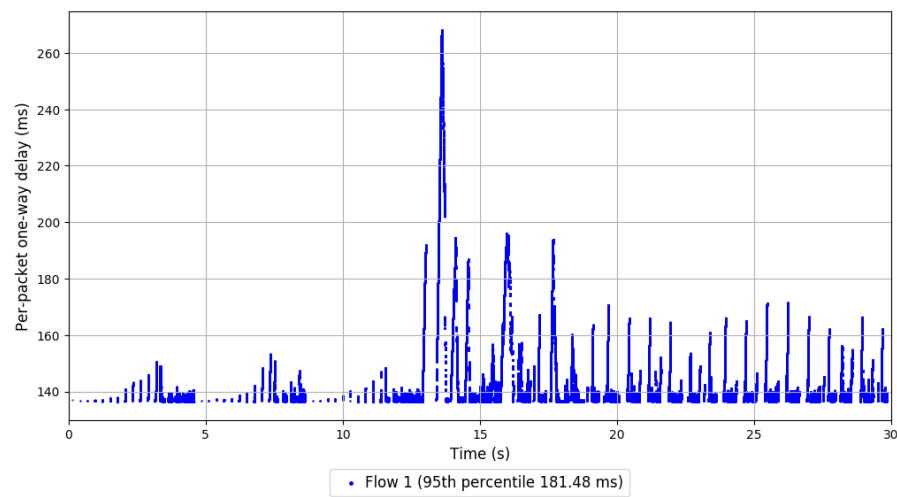
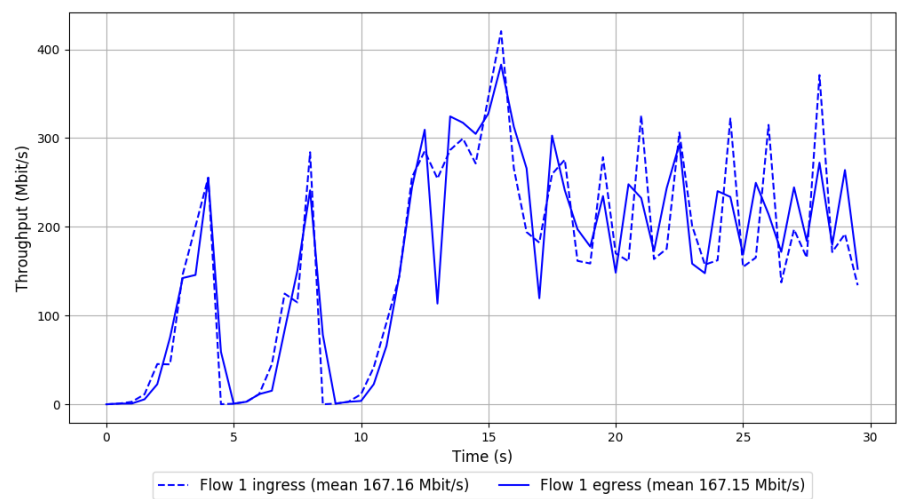
-- Flow 1:

Average throughput: 167.15 Mbit/s

95th percentile per-packet one-way delay: 181.479 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-03 21:05:12

End at: 2018-04-03 21:05:42

Below is generated by plot.py at 2018-04-03 23:14:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.45 Mbit/s

95th percentile per-packet one-way delay: 236.827 ms

Loss rate: 0.09%

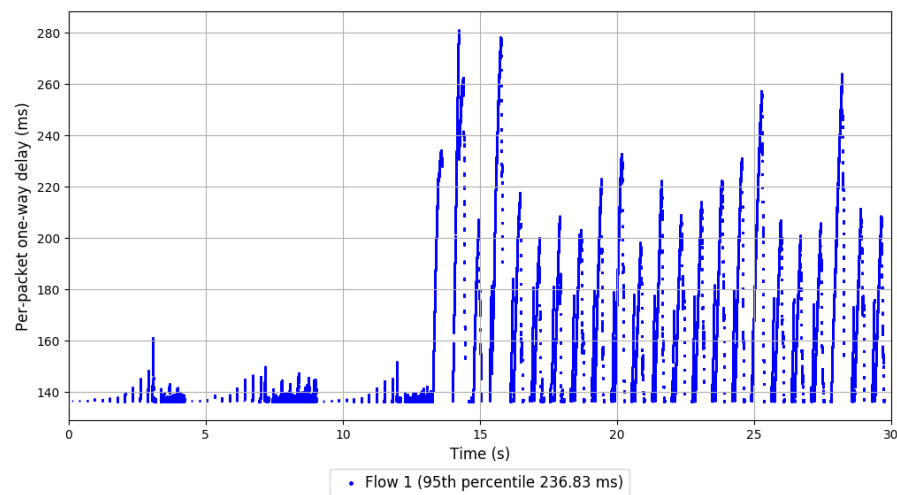
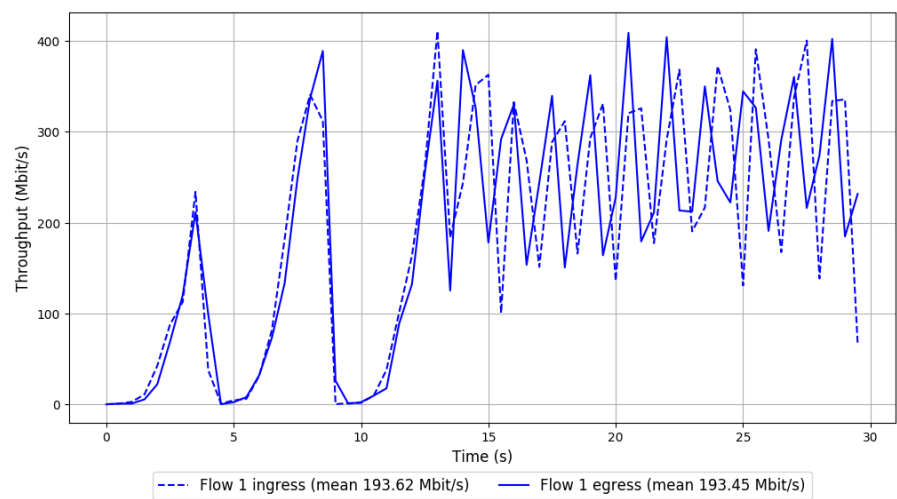
-- Flow 1:

Average throughput: 193.45 Mbit/s

95th percentile per-packet one-way delay: 236.827 ms

Loss rate: 0.09%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-03 18:32:08

End at: 2018-04-03 18:32:38

Below is generated by plot.py at 2018-04-03 23:14:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.48 Mbit/s

95th percentile per-packet one-way delay: 136.953 ms

Loss rate: 0.00%

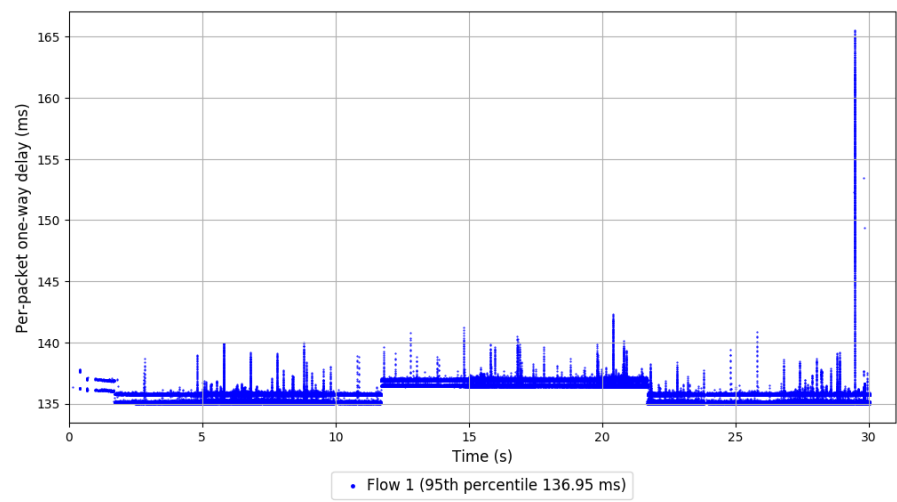
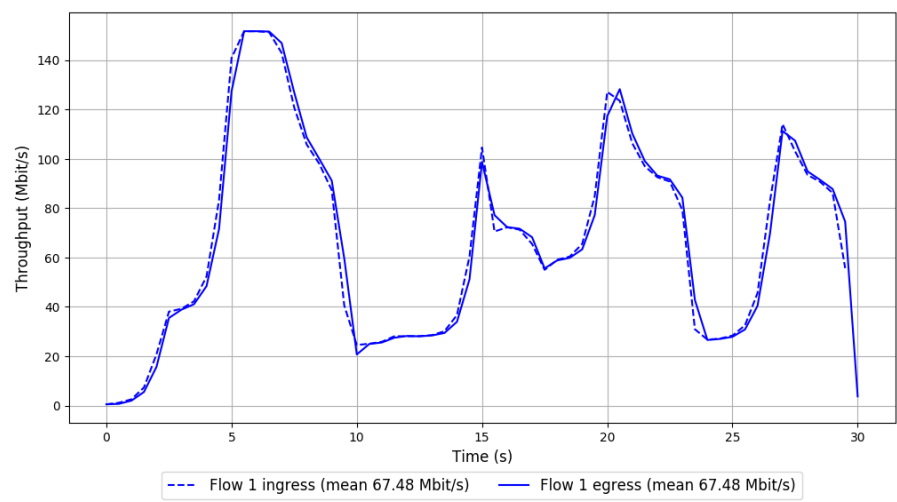
-- Flow 1:

Average throughput: 67.48 Mbit/s

95th percentile per-packet one-way delay: 136.953 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-03 18:47:54

End at: 2018-04-03 18:48:24

Below is generated by plot.py at 2018-04-03 23:14:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 136.489 ms

Loss rate: 0.00%

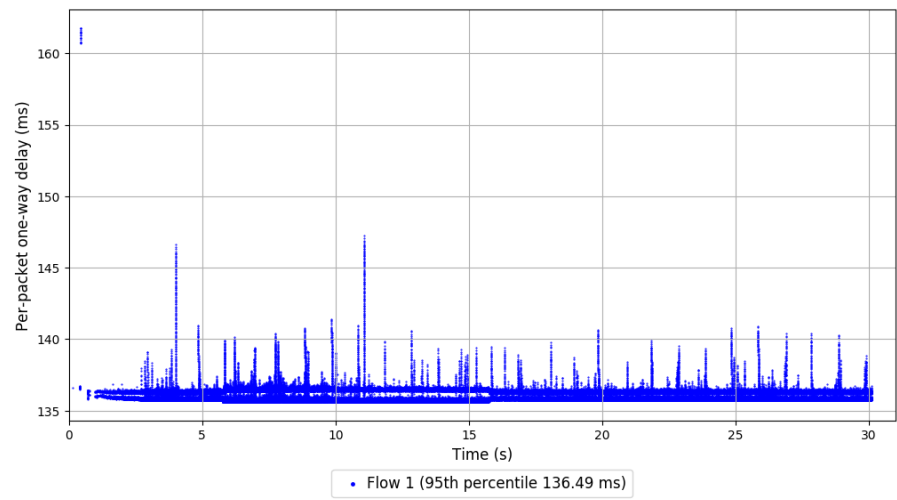
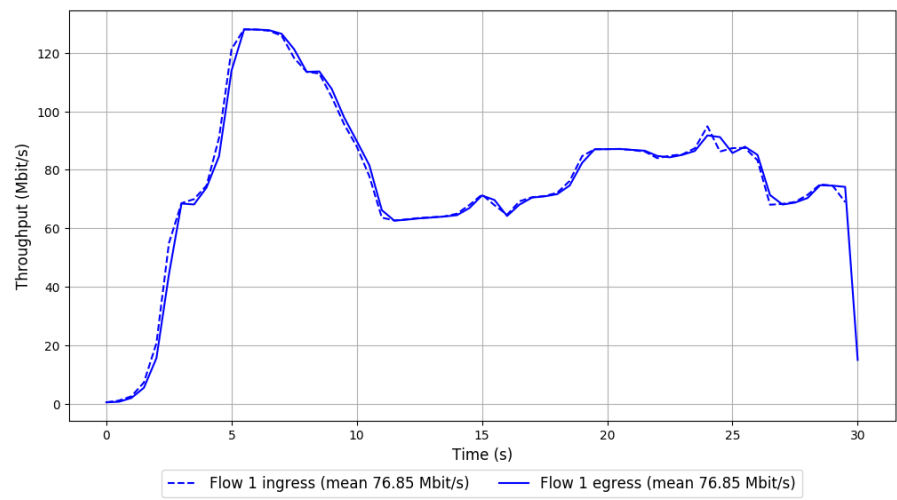
-- Flow 1:

Average throughput: 76.85 Mbit/s

95th percentile per-packet one-way delay: 136.489 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

End at: 2018-04-03 19:04:34

Below is generated by plot.py at 2018-04-03 23:14:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.19 Mbit/s

95th percentile per-packet one-way delay: 136.464 ms

Loss rate: 0.00%

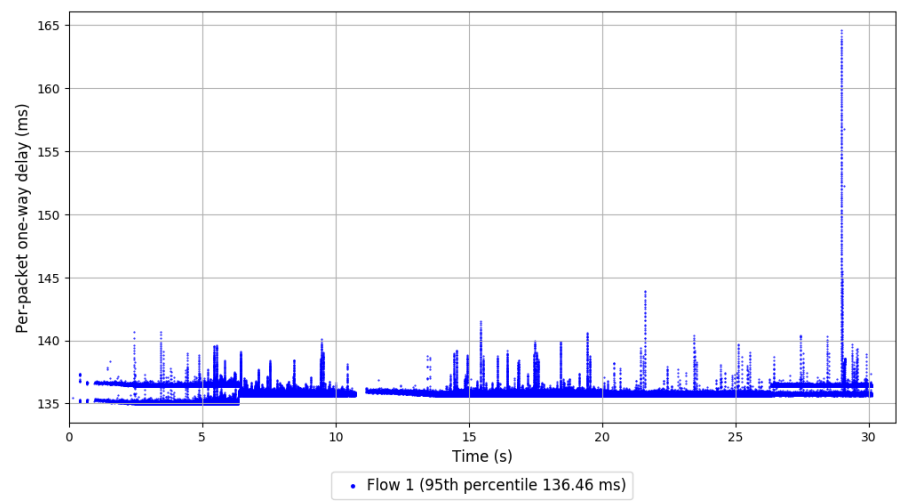
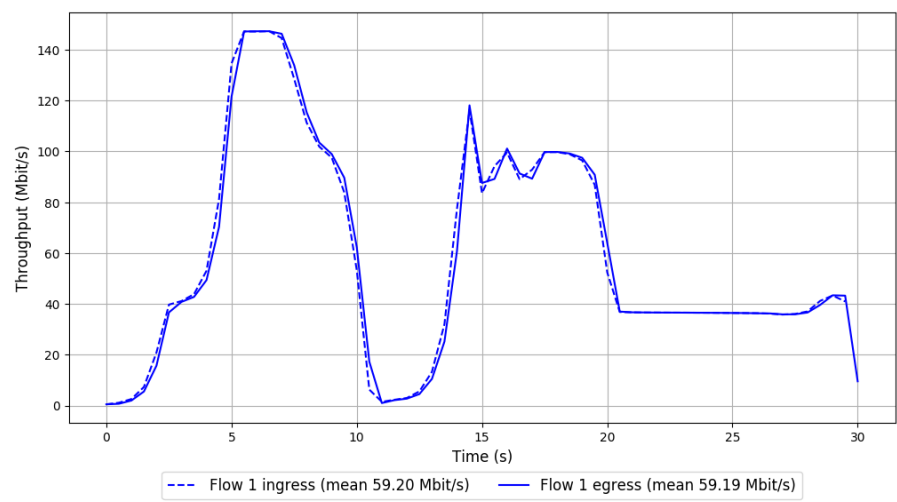
-- Flow 1:

Average throughput: 59.19 Mbit/s

95th percentile per-packet one-way delay: 136.464 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-03 19:19:50

End at: 2018-04-03 19:20:20

Below is generated by plot.py at 2018-04-03 23:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.29 Mbit/s

95th percentile per-packet one-way delay: 136.470 ms

Loss rate: 0.00%

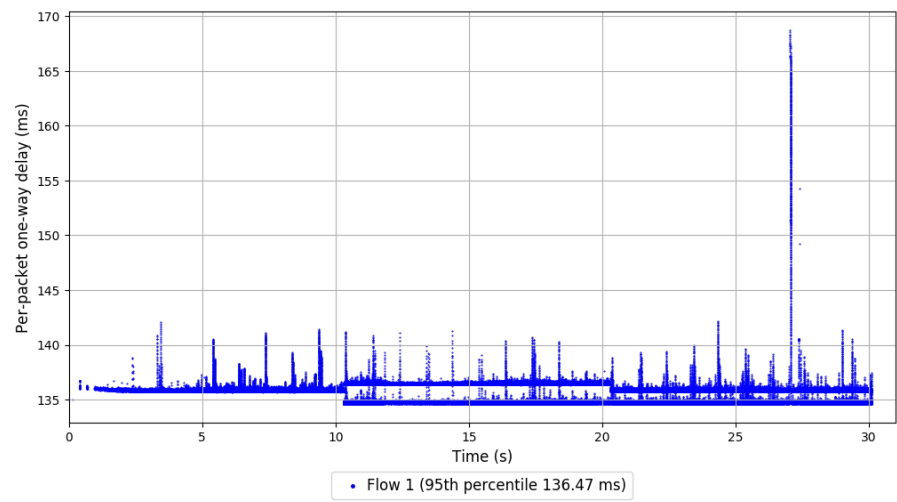
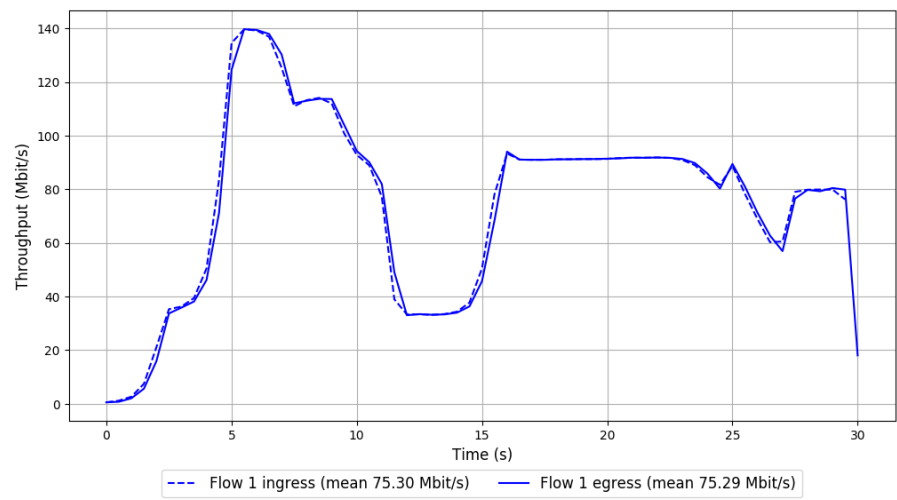
-- Flow 1:

Average throughput: 75.29 Mbit/s

95th percentile per-packet one-way delay: 136.470 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-03 19:36:05

End at: 2018-04-03 19:36:35

Below is generated by plot.py at 2018-04-03 23:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 145.012 ms

Loss rate: 2.67%

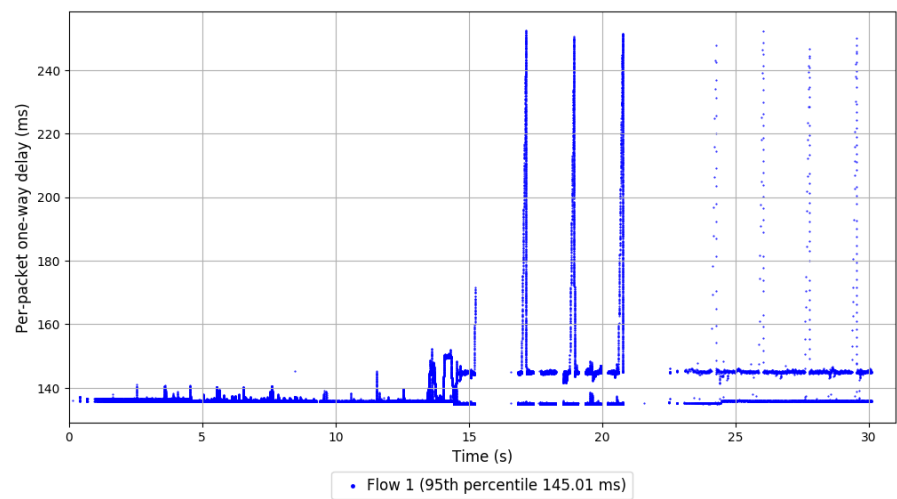
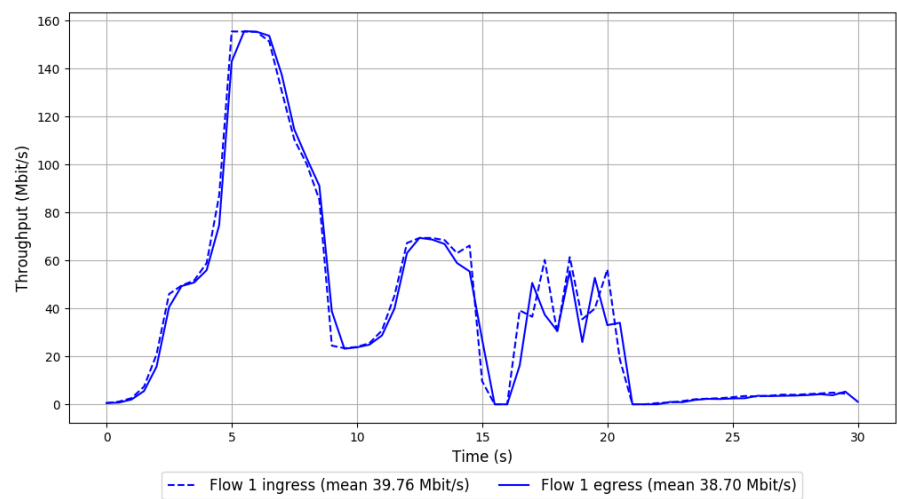
-- Flow 1:

Average throughput: 38.70 Mbit/s

95th percentile per-packet one-way delay: 145.012 ms

Loss rate: 2.67%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-03 19:51:47

End at: 2018-04-03 19:52:17

Below is generated by plot.py at 2018-04-03 23:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.54 Mbit/s

95th percentile per-packet one-way delay: 136.562 ms

Loss rate: 0.00%

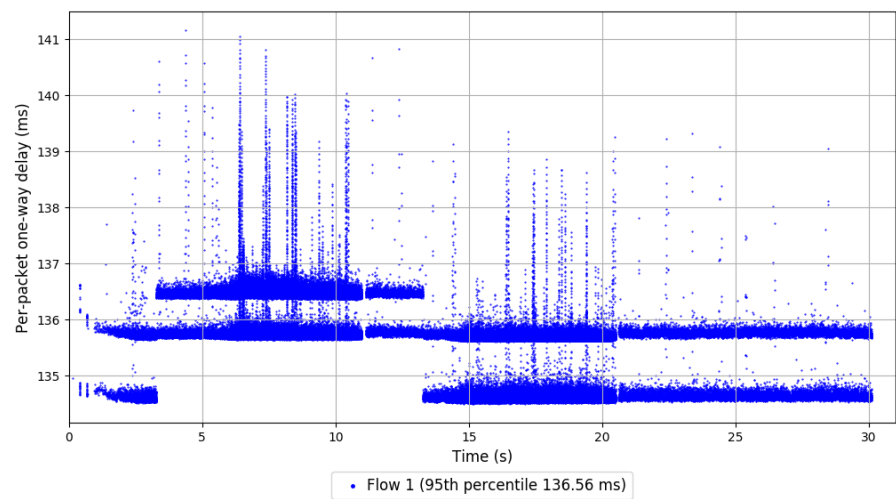
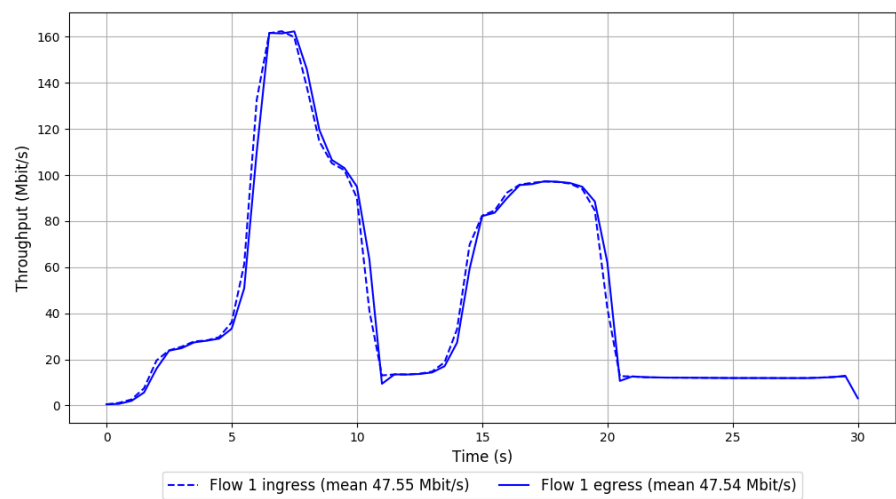
-- Flow 1:

Average throughput: 47.54 Mbit/s

95th percentile per-packet one-way delay: 136.562 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-03 20:07:47

End at: 2018-04-03 20:08:17

Below is generated by plot.py at 2018-04-03 23:15:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 136.508 ms

Loss rate: 0.00%

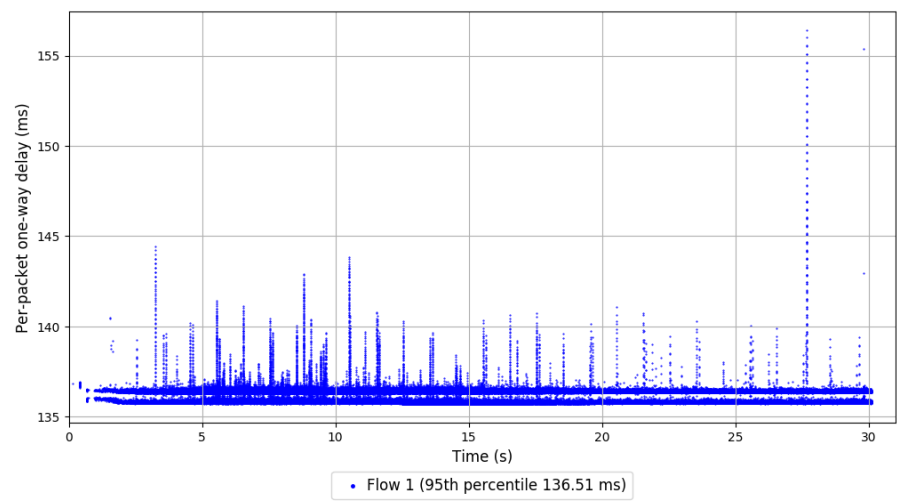
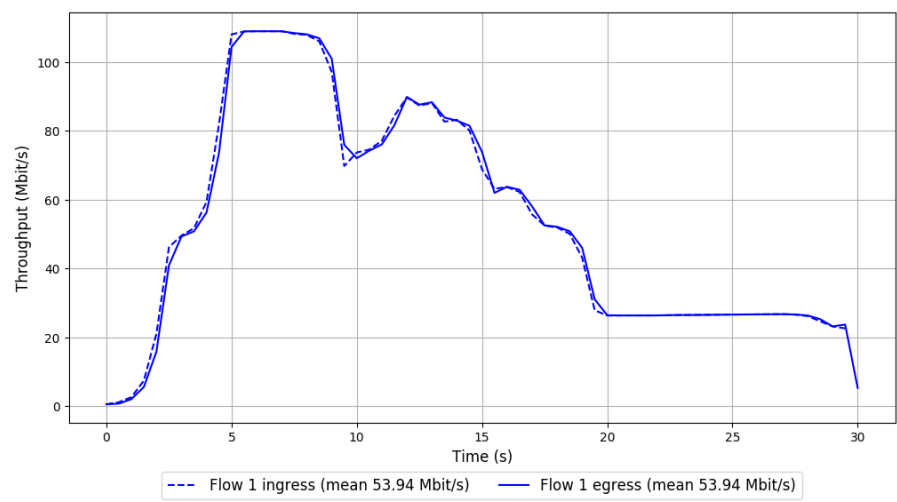
-- Flow 1:

Average throughput: 53.94 Mbit/s

95th percentile per-packet one-way delay: 136.508 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-03 20:23:35

End at: 2018-04-03 20:24:05

Below is generated by plot.py at 2018-04-03 23:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 137.016 ms

Loss rate: 0.00%

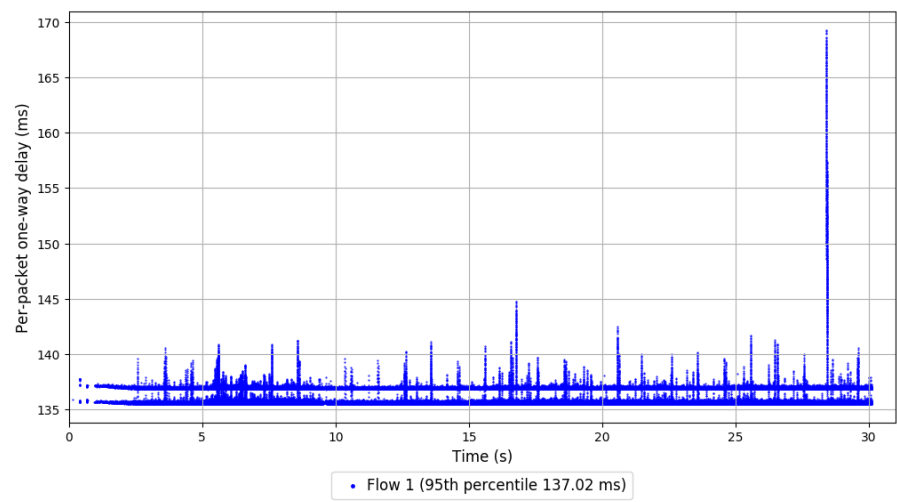
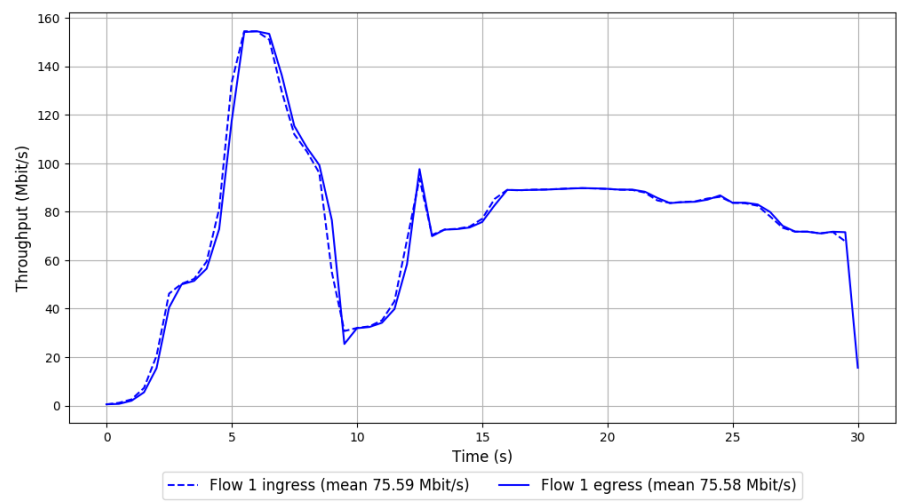
-- Flow 1:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 137.016 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-03 20:39:17

End at: 2018-04-03 20:39:47

Below is generated by plot.py at 2018-04-03 23:16:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.11 Mbit/s

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

Loss rate: 0.01%

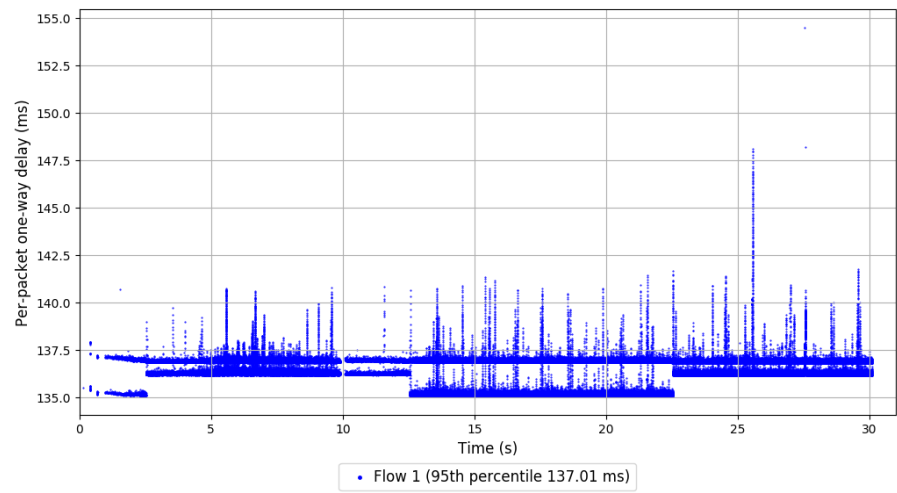
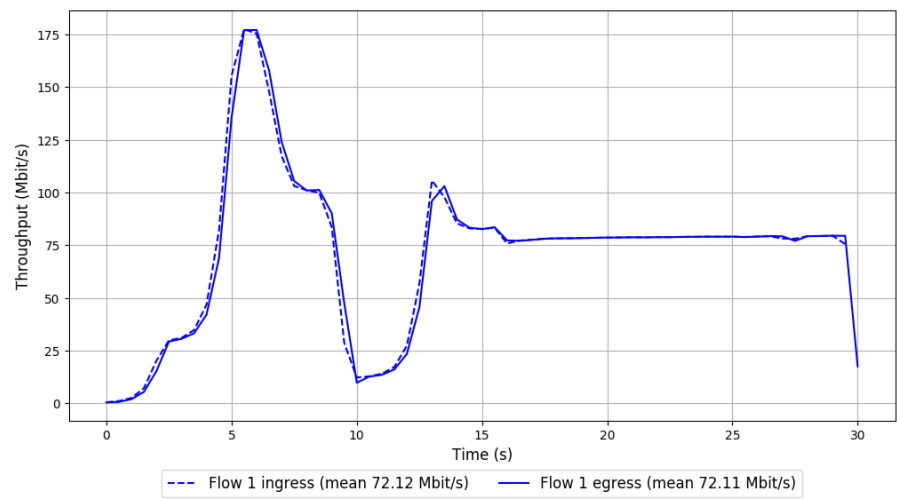
-- Flow 1:

Average throughput: 72.11 Mbit/s

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

Loss rate: 0.01%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-03 20:55:30

End at: 2018-04-03 20:56:00

Below is generated by plot.py at 2018-04-03 23:16:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.30 Mbit/s

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

Loss rate: 0.00%

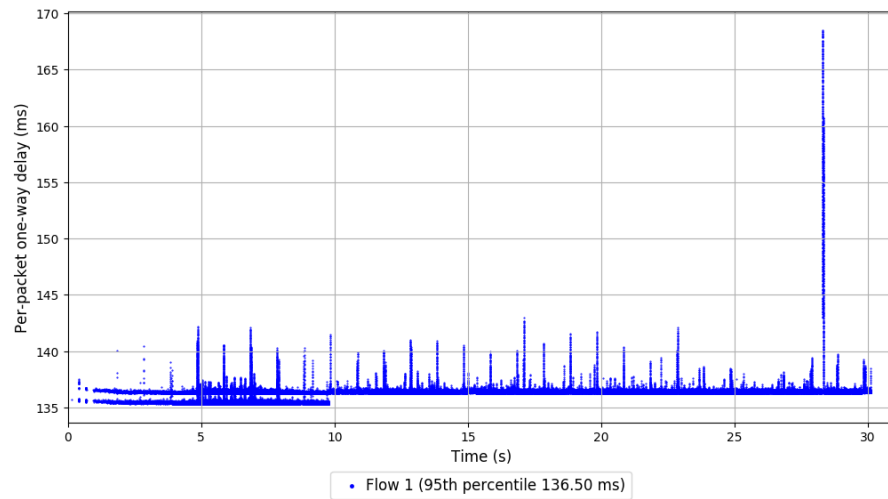
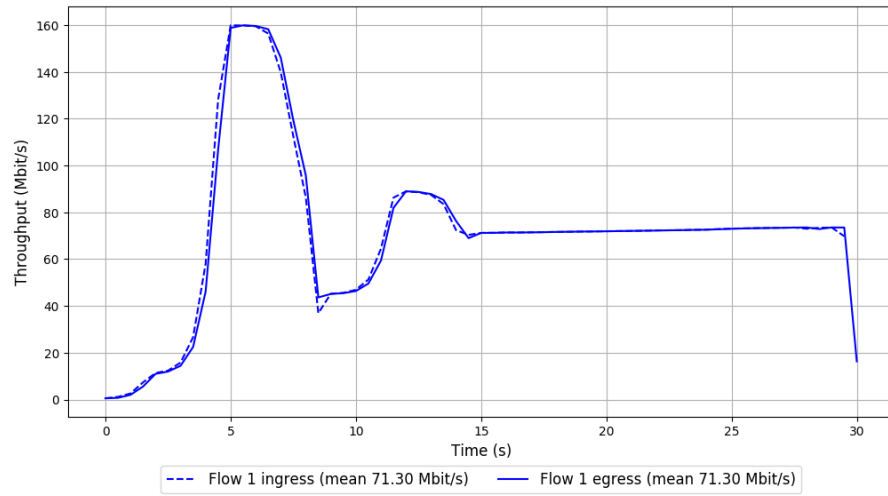
-- Flow 1:

Average throughput: 71.30 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

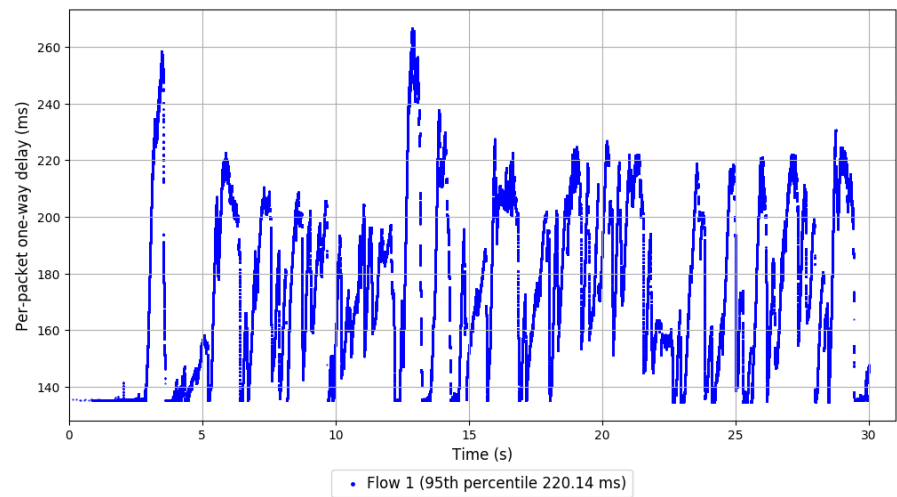
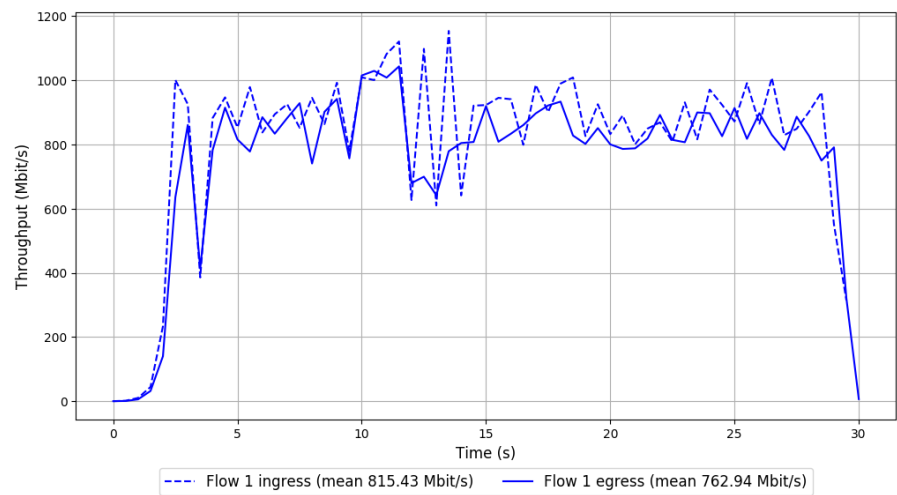


```
Run 1: Statistics of FillP

Start at: 2018-04-03 18:34:21
End at: 2018-04-03 18:34:51

# Below is generated by plot.py at 2018-04-03 23:32:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 762.94 Mbit/s
95th percentile per-packet one-way delay: 220.137 ms
Loss rate: 6.43%
-- Flow 1:
Average throughput: 762.94 Mbit/s
95th percentile per-packet one-way delay: 220.137 ms
Loss rate: 6.43%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-03 18:50:13

End at: 2018-04-03 18:50:43

Below is generated by plot.py at 2018-04-03 23:32:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 740.11 Mbit/s

95th percentile per-packet one-way delay: 220.571 ms

Loss rate: 5.90%

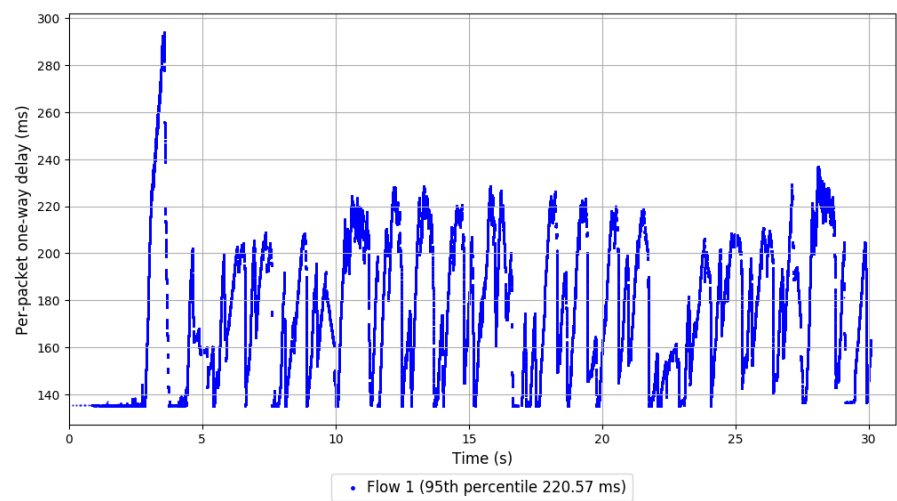
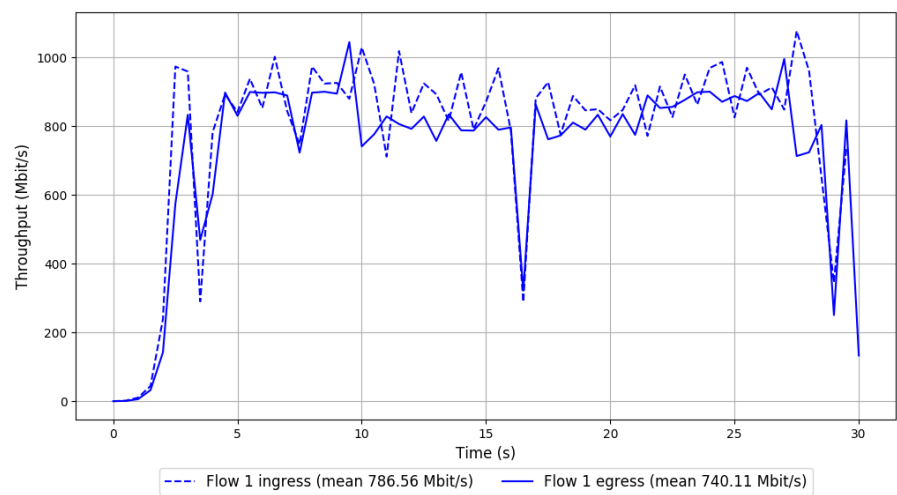
-- Flow 1:

Average throughput: 740.11 Mbit/s

95th percentile per-packet one-way delay: 220.571 ms

Loss rate: 5.90%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-03 19:06:20

End at: 2018-04-03 19:06:50

Below is generated by plot.py at 2018-04-03 23:32:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.82 Mbit/s

95th percentile per-packet one-way delay: 216.434 ms

Loss rate: 5.96%

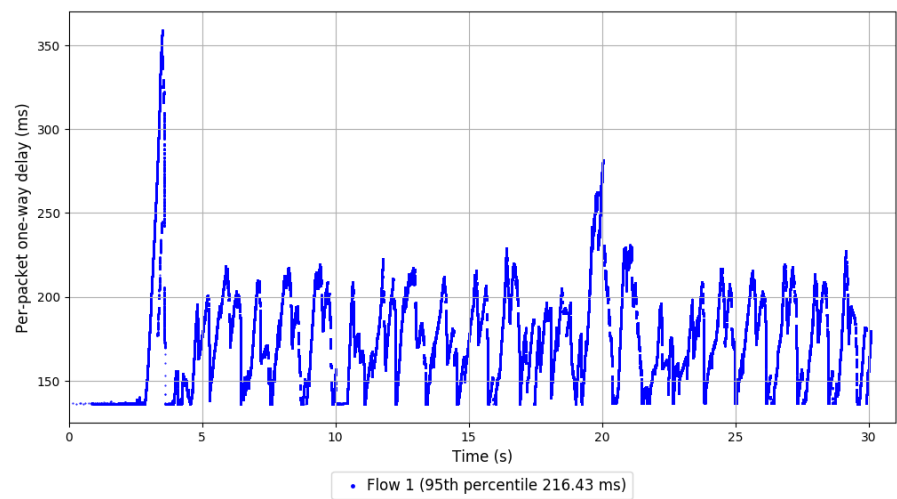
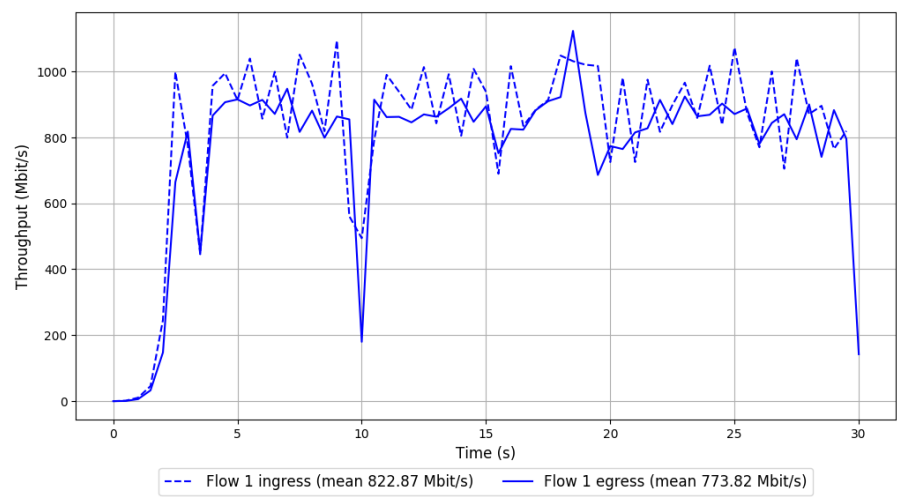
-- Flow 1:

Average throughput: 773.82 Mbit/s

95th percentile per-packet one-way delay: 216.434 ms

Loss rate: 5.96%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-03 19:22:08

End at: 2018-04-03 19:22:38

Below is generated by plot.py at 2018-04-03 23:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 775.55 Mbit/s

95th percentile per-packet one-way delay: 217.172 ms

Loss rate: 6.98%

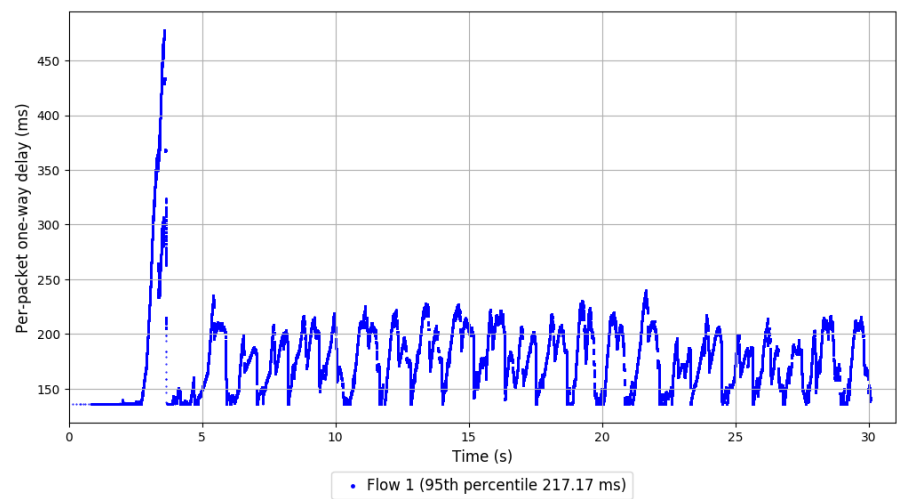
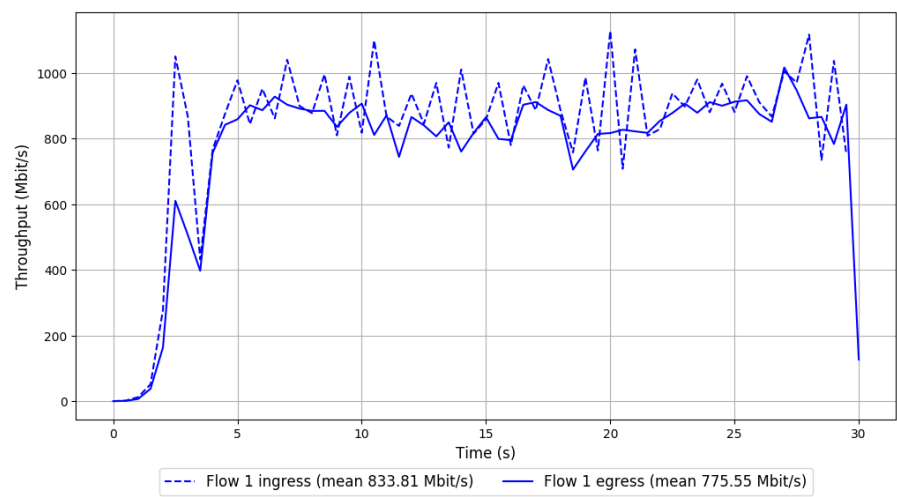
-- Flow 1:

Average throughput: 775.55 Mbit/s

95th percentile per-packet one-way delay: 217.172 ms

Loss rate: 6.98%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-03 19:38:27

End at: 2018-04-03 19:38:57

Below is generated by plot.py at 2018-04-03 23:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.42 Mbit/s

95th percentile per-packet one-way delay: 369.738 ms

Loss rate: 9.60%

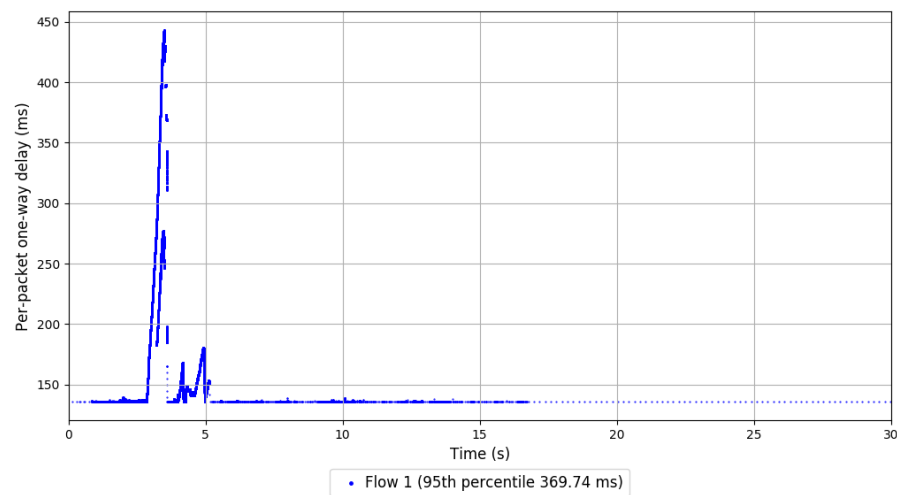
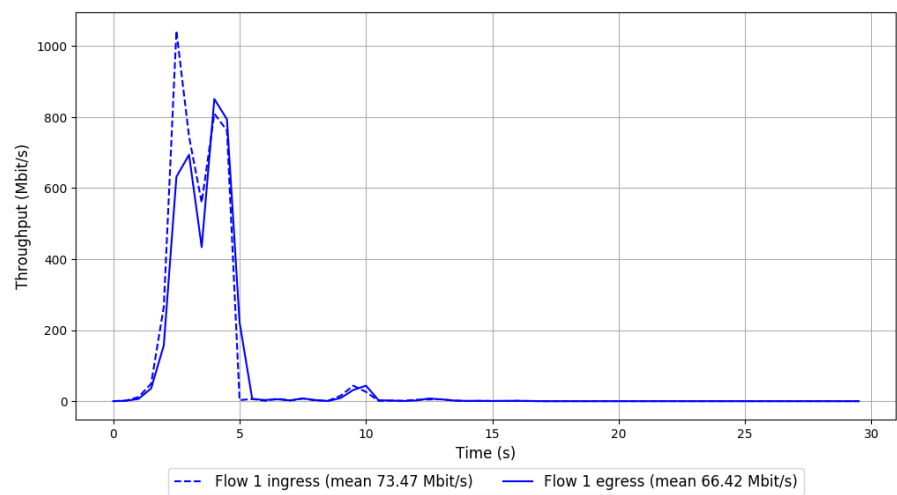
-- Flow 1:

Average throughput: 66.42 Mbit/s

95th percentile per-packet one-way delay: 369.738 ms

Loss rate: 9.60%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-03 19:54:02

End at: 2018-04-03 19:54:32

Below is generated by plot.py at 2018-04-03 23:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 746.21 Mbit/s

95th percentile per-packet one-way delay: 223.946 ms

Loss rate: 6.68%

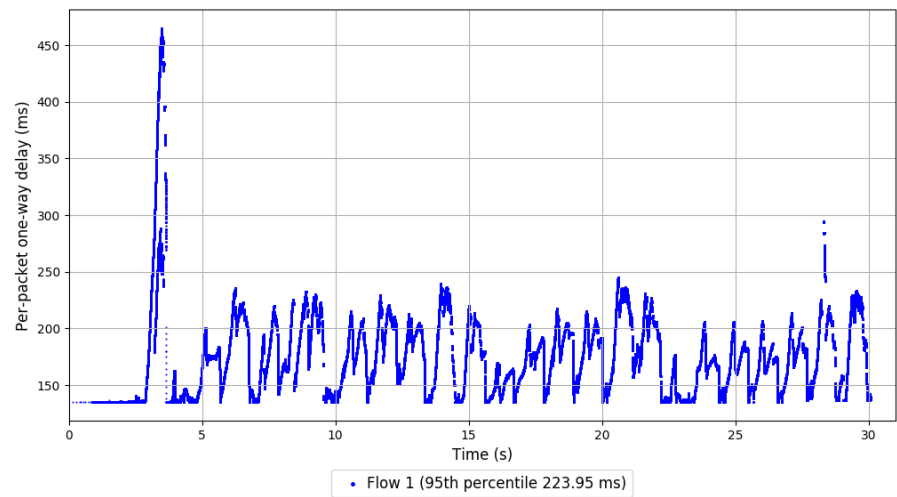
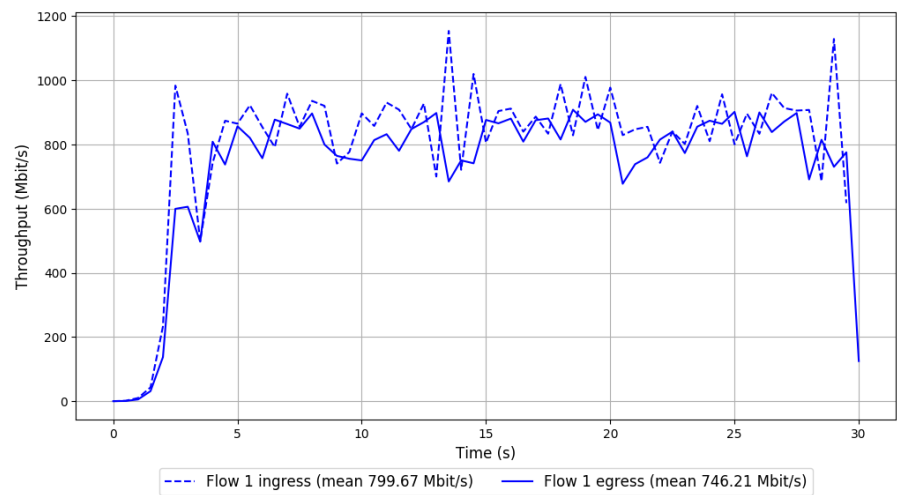
-- Flow 1:

Average throughput: 746.21 Mbit/s

95th percentile per-packet one-way delay: 223.946 ms

Loss rate: 6.68%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-03 20:10:04

End at: 2018-04-03 20:10:34

Below is generated by plot.py at 2018-04-03 23:33:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 752.83 Mbit/s

95th percentile per-packet one-way delay: 222.753 ms

Loss rate: 7.00%

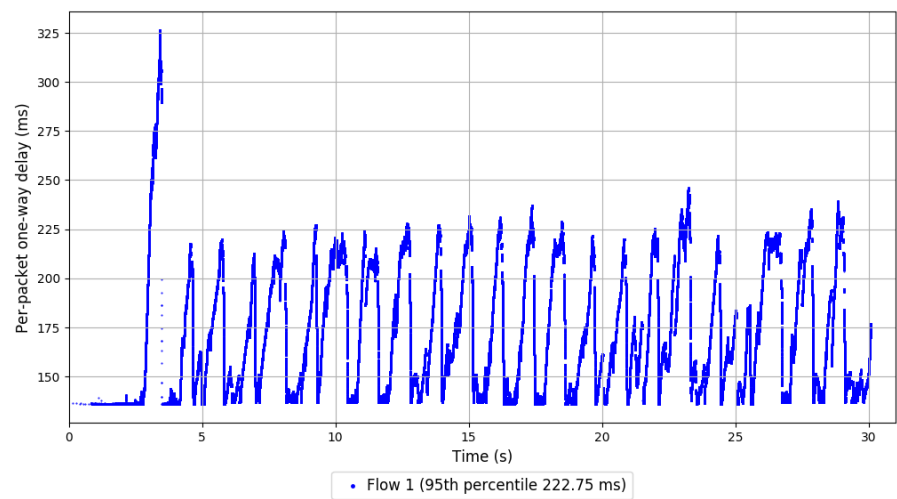
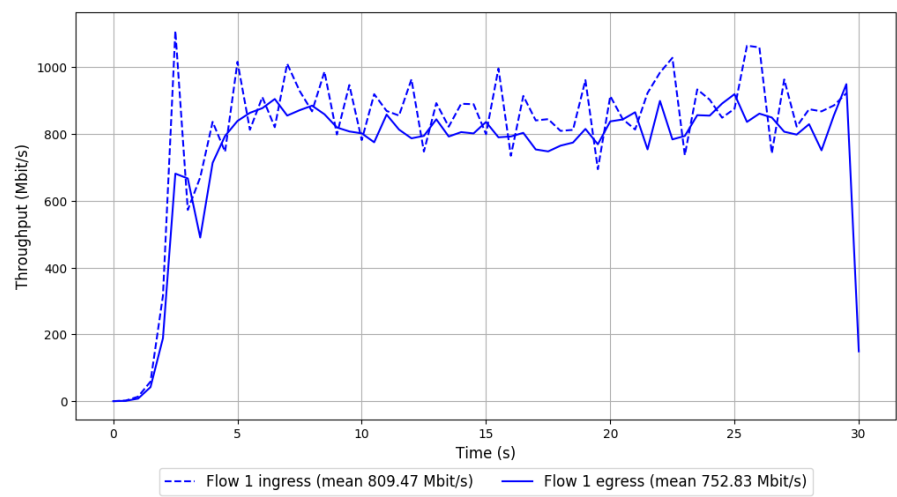
-- Flow 1:

Average throughput: 752.83 Mbit/s

95th percentile per-packet one-way delay: 222.753 ms

Loss rate: 7.00%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-03 20:25:54

End at: 2018-04-03 20:26:24

Below is generated by plot.py at 2018-04-03 23:34:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 781.25 Mbit/s

95th percentile per-packet one-way delay: 227.759 ms

Loss rate: 5.10%

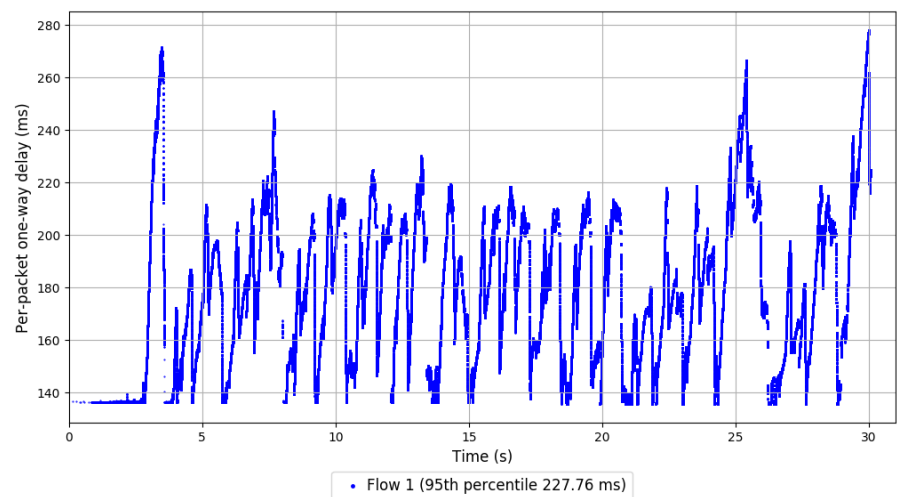
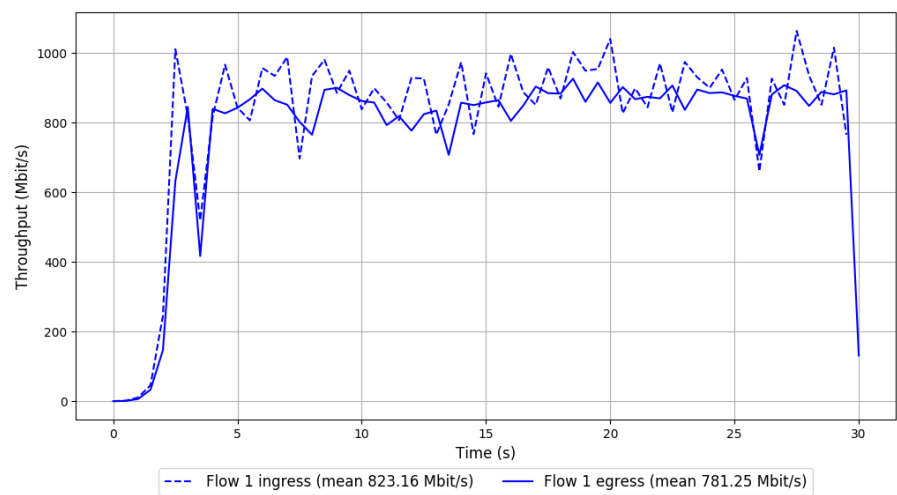
-- Flow 1:

Average throughput: 781.25 Mbit/s

95th percentile per-packet one-way delay: 227.759 ms

Loss rate: 5.10%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-03 20:41:36

End at: 2018-04-03 20:42:06

Below is generated by plot.py at 2018-04-03 23:34:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 767.26 Mbit/s

95th percentile per-packet one-way delay: 222.340 ms

Loss rate: 5.55%

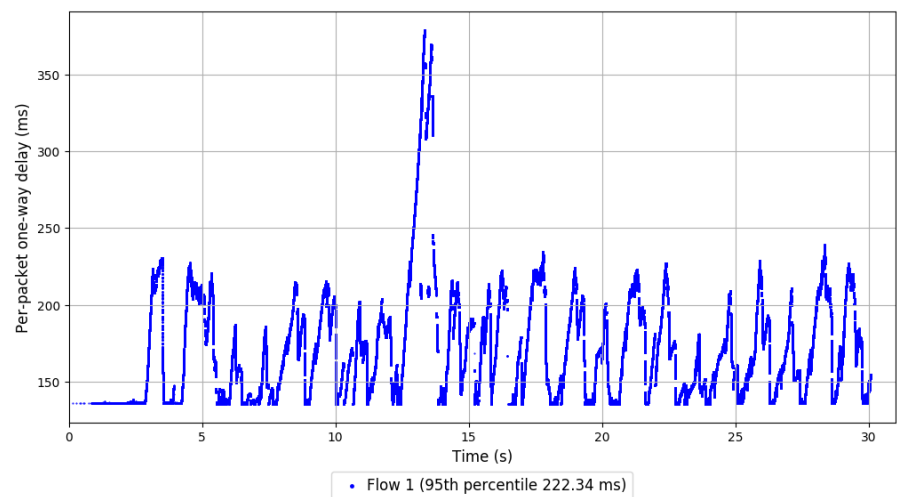
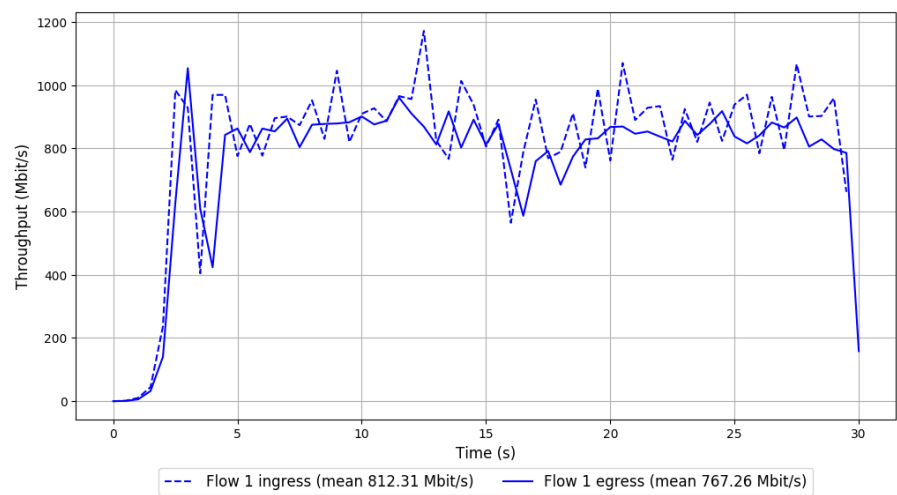
-- Flow 1:

Average throughput: 767.26 Mbit/s

95th percentile per-packet one-way delay: 222.340 ms

Loss rate: 5.55%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-03 20:57:48

End at: 2018-04-03 20:58:18

Below is generated by plot.py at 2018-04-03 23:34:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.46 Mbit/s

95th percentile per-packet one-way delay: 335.785 ms

Loss rate: 9.71%

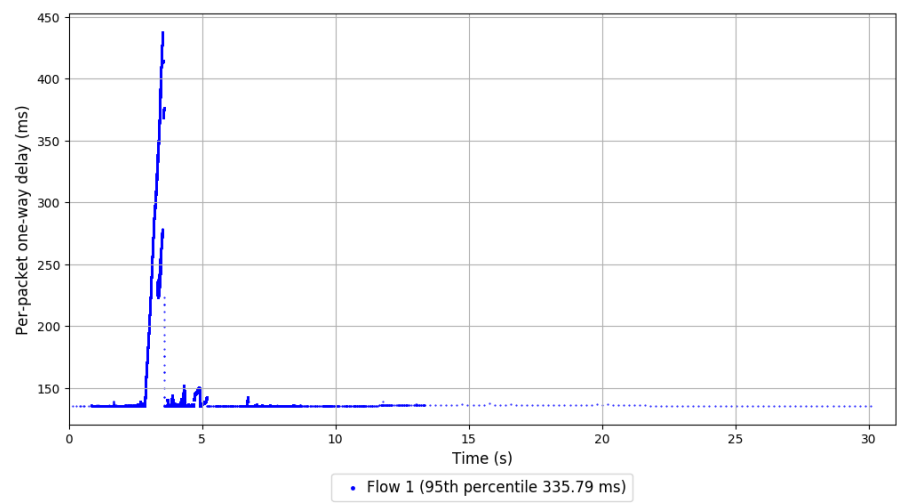
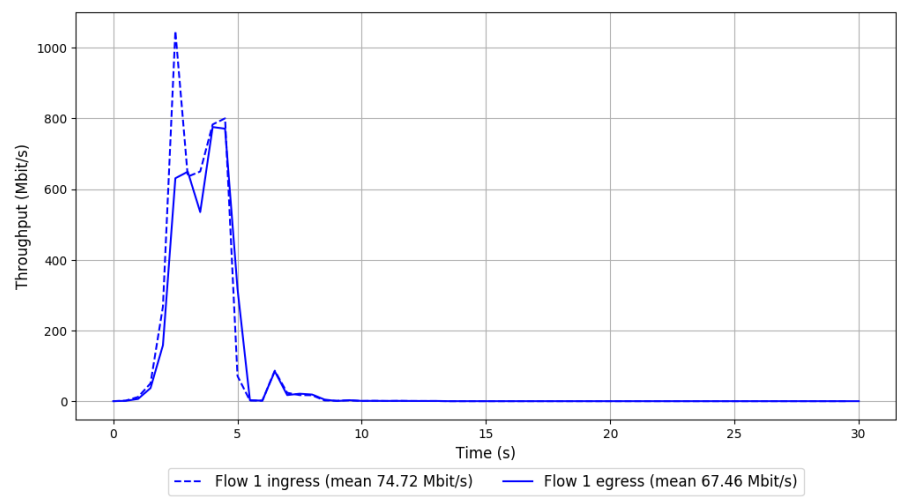
-- Flow 1:

Average throughput: 67.46 Mbit/s

95th percentile per-packet one-way delay: 335.785 ms

Loss rate: 9.71%

Run 10: Report of FillP — Data Link

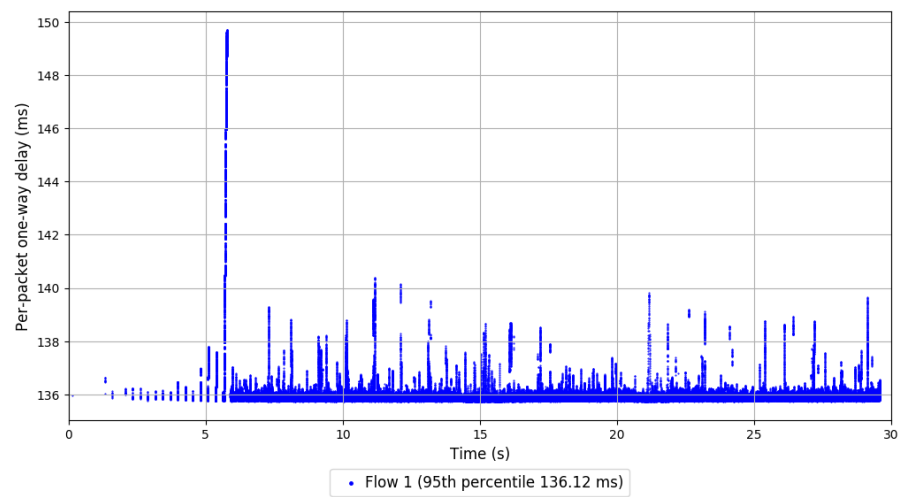
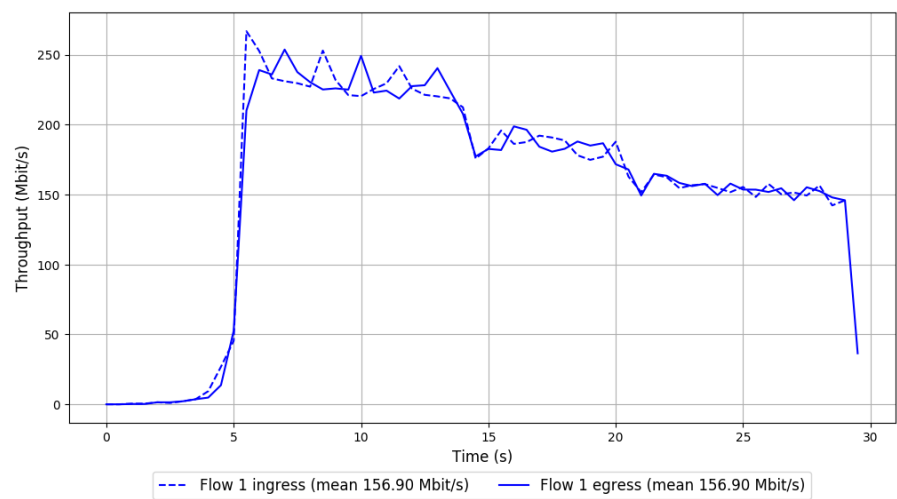


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-03 18:43:53
End at: 2018-04-03 18:44:23

# Below is generated by plot.py at 2018-04-03 23:34:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.90 Mbit/s
95th percentile per-packet one-way delay: 136.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.90 Mbit/s
95th percentile per-packet one-way delay: 136.124 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-03 18:59:43

End at: 2018-04-03 19:00:13

Below is generated by plot.py at 2018-04-03 23:36:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.59 Mbit/s

95th percentile per-packet one-way delay: 136.611 ms

Loss rate: 0.00%

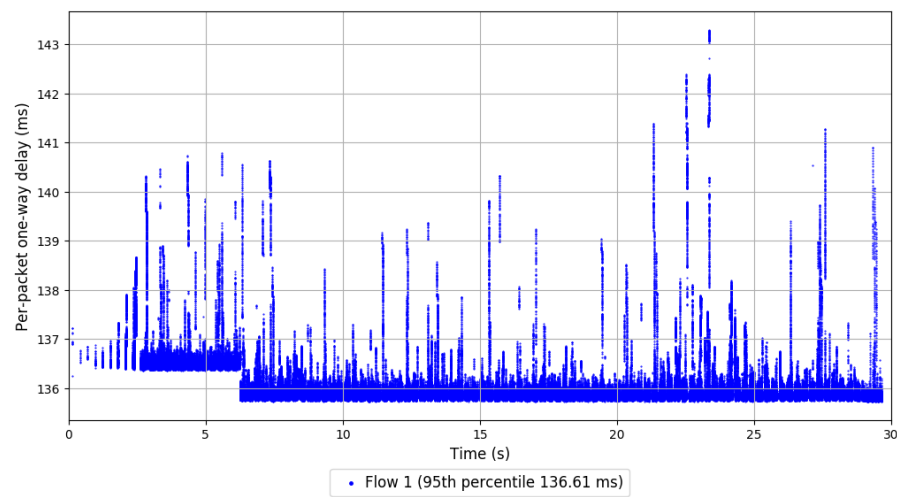
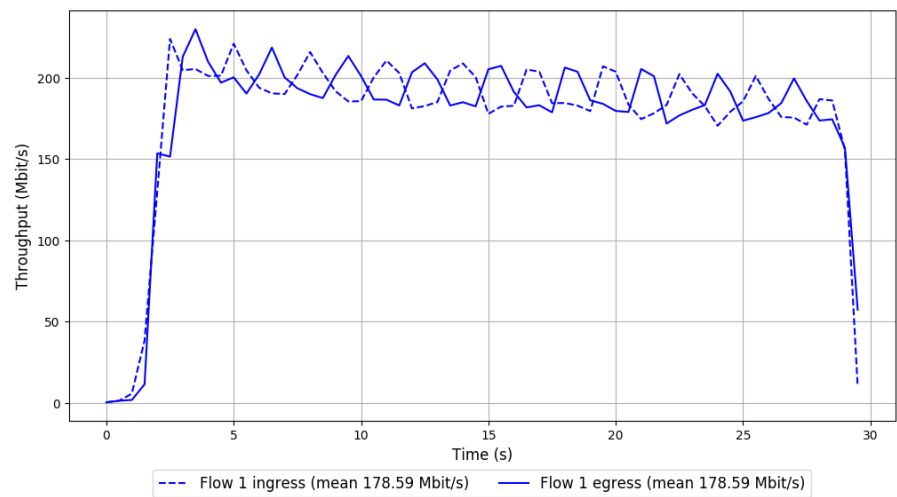
-- Flow 1:

Average throughput: 178.59 Mbit/s

95th percentile per-packet one-way delay: 136.611 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-03 19:15:48

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

Below is generated by plot.py at 2018-04-03 23:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.28 Mbit/s

95th percentile per-packet one-way delay: 136.684 ms

Loss rate: 0.00%

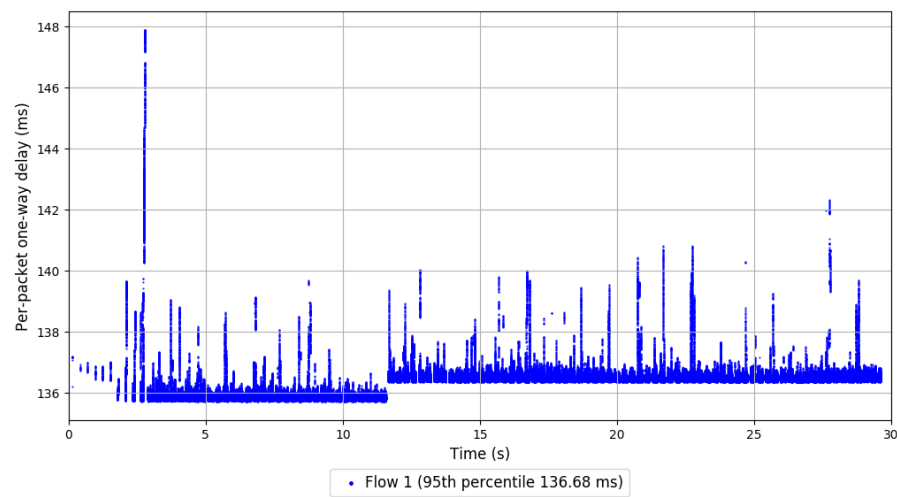
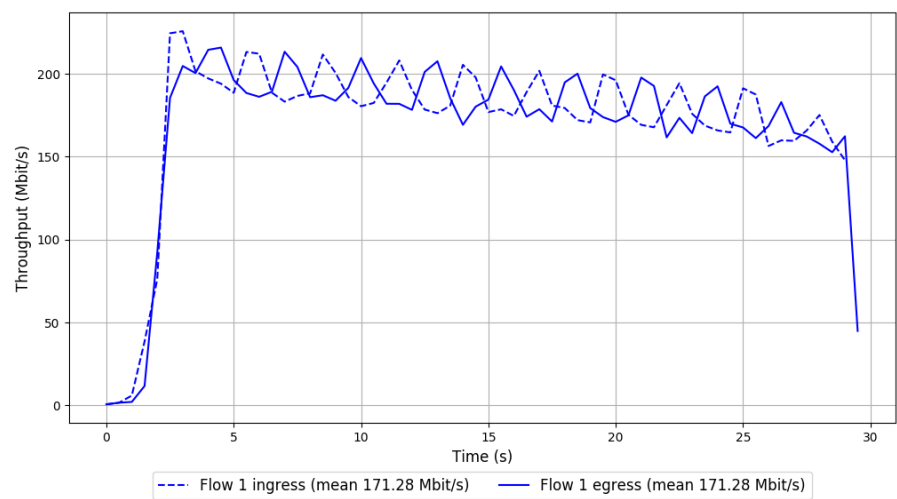
-- Flow 1:

Average throughput: 171.28 Mbit/s

95th percentile per-packet one-way delay: 136.684 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-03 19:31:45

End at: 2018-04-03 19:32:15

Below is generated by plot.py at 2018-04-03 23:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.95 Mbit/s

95th percentile per-packet one-way delay: 136.910 ms

Loss rate: 0.00%

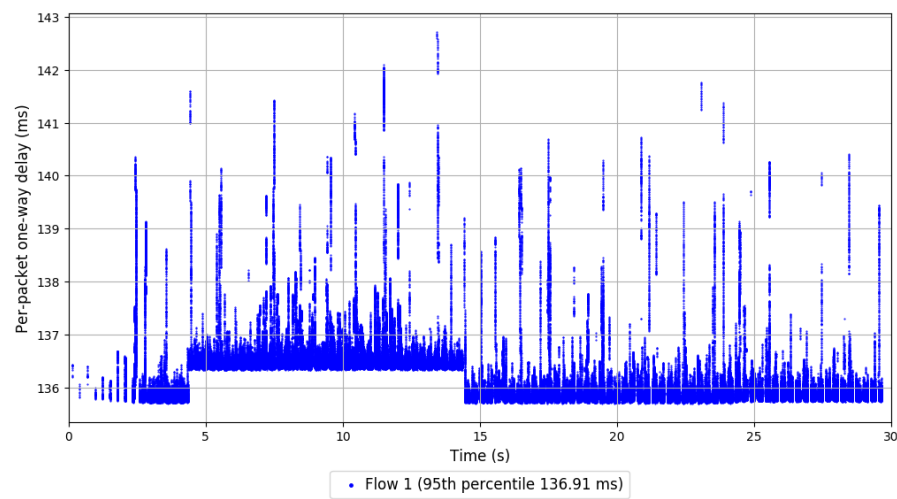
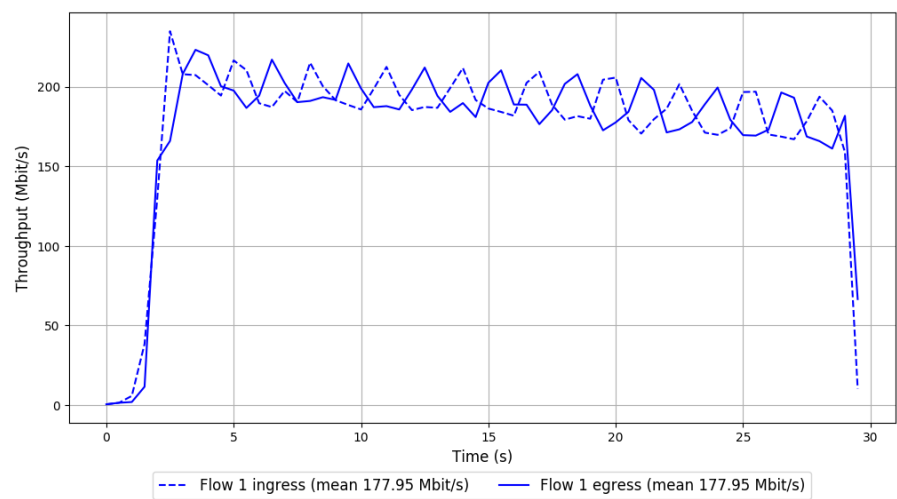
-- Flow 1:

Average throughput: 177.95 Mbit/s

95th percentile per-packet one-way delay: 136.910 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-03 19:47:25

End at: 2018-04-03 19:47:55

Below is generated by plot.py at 2018-04-03 23:37:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.22 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 0.00%

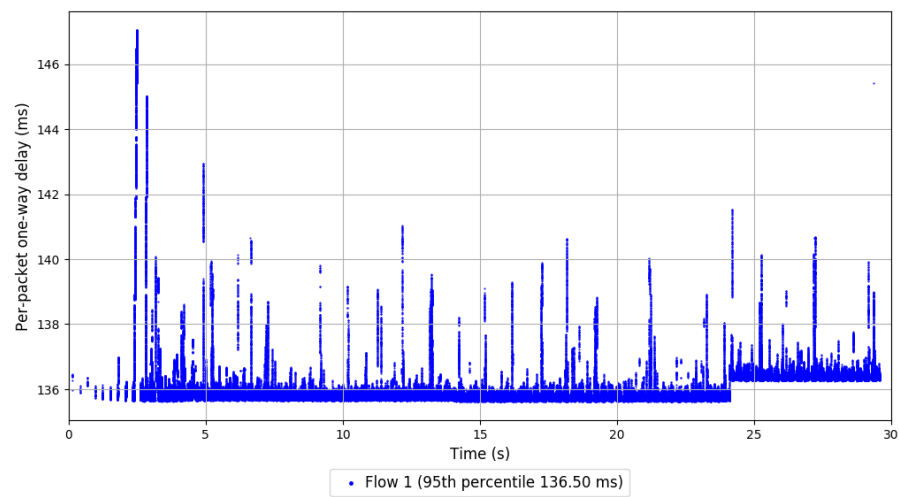
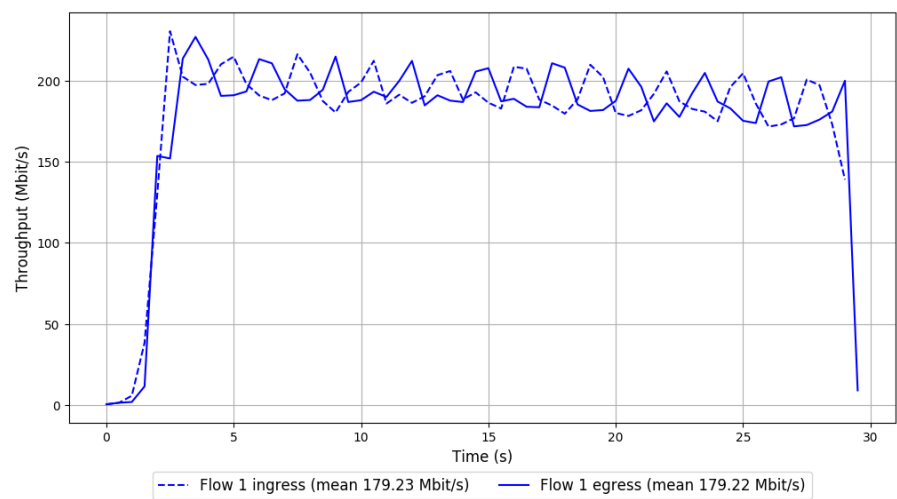
-- Flow 1:

Average throughput: 179.22 Mbit/s

95th percentile per-packet one-way delay: 136.502 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-03 20:03:27

End at: 2018-04-03 20:03:57

Below is generated by plot.py at 2018-04-03 23:37:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.10 Mbit/s

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

Loss rate: 0.00%

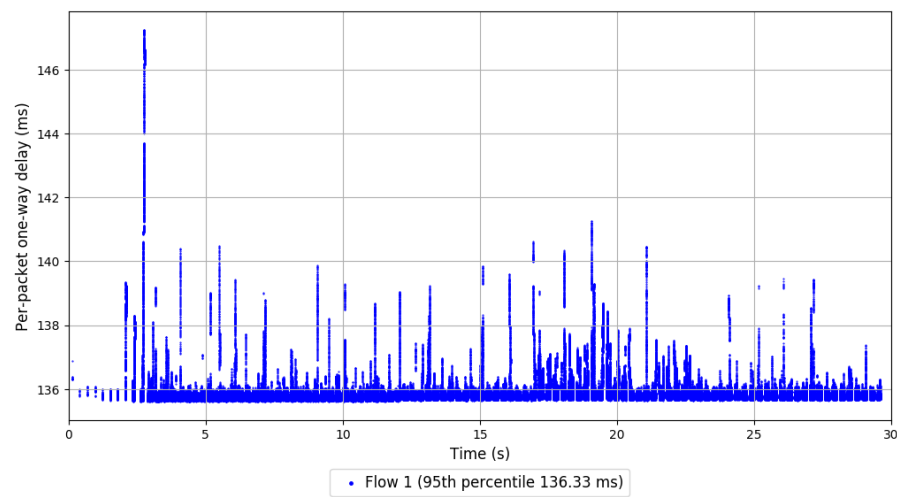
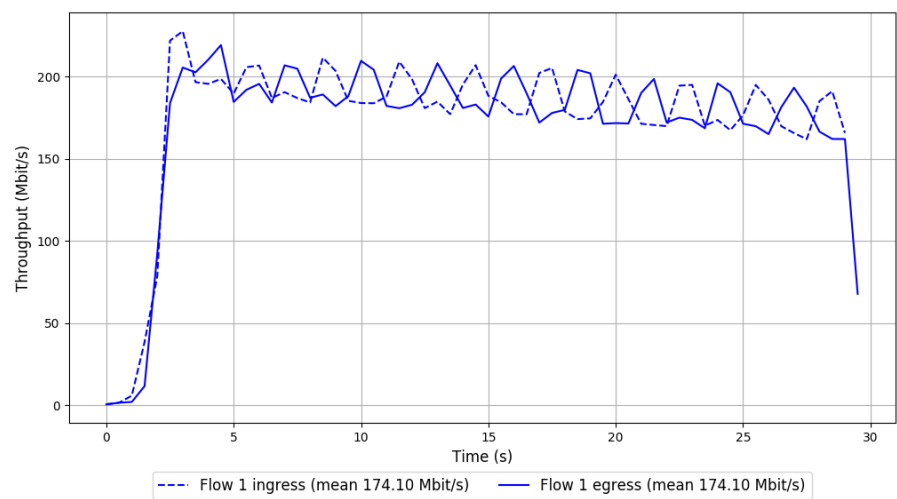
-- Flow 1:

Average throughput: 174.10 Mbit/s

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

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-03 20:19:32

End at: 2018-04-03 20:20:02

Below is generated by plot.py at 2018-04-03 23:38:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.71 Mbit/s

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

Loss rate: 0.00%

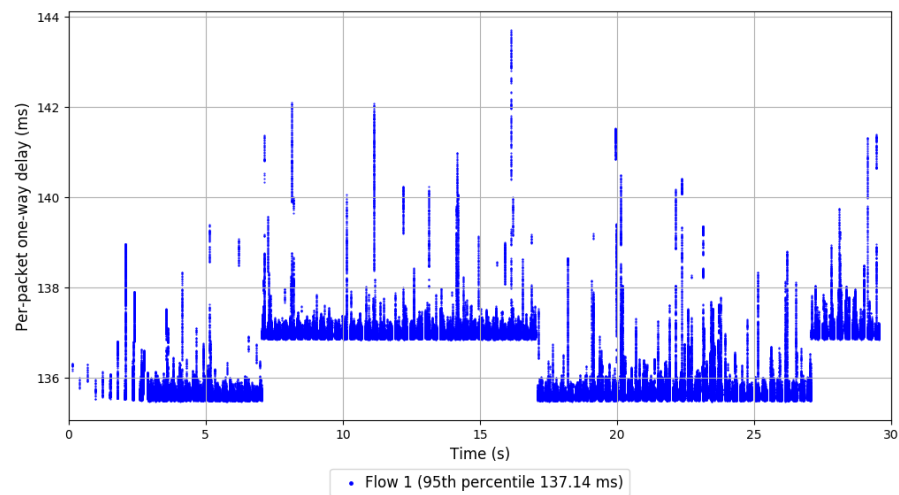
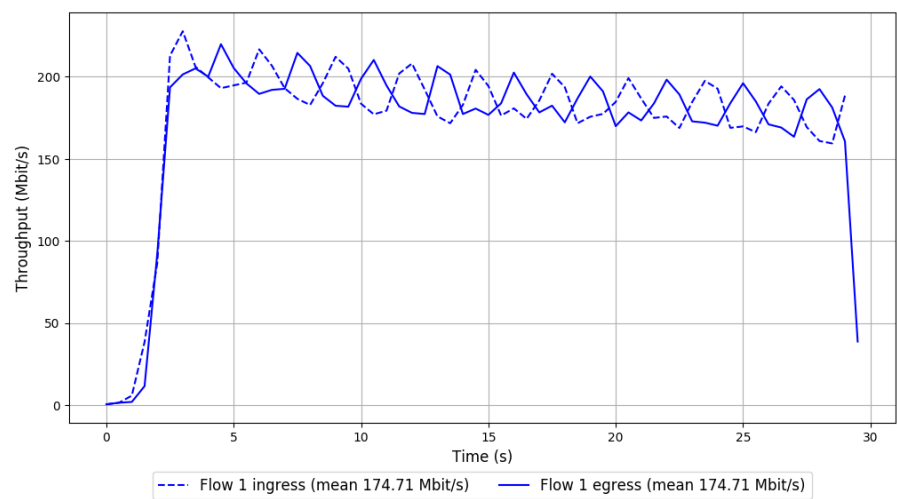
-- Flow 1:

Average throughput: 174.71 Mbit/s

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

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-03 20:35:15

End at: 2018-04-03 20:35:45

Below is generated by plot.py at 2018-04-03 23:38:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.33 Mbit/s

95th percentile per-packet one-way delay: 137.360 ms

Loss rate: 0.00%

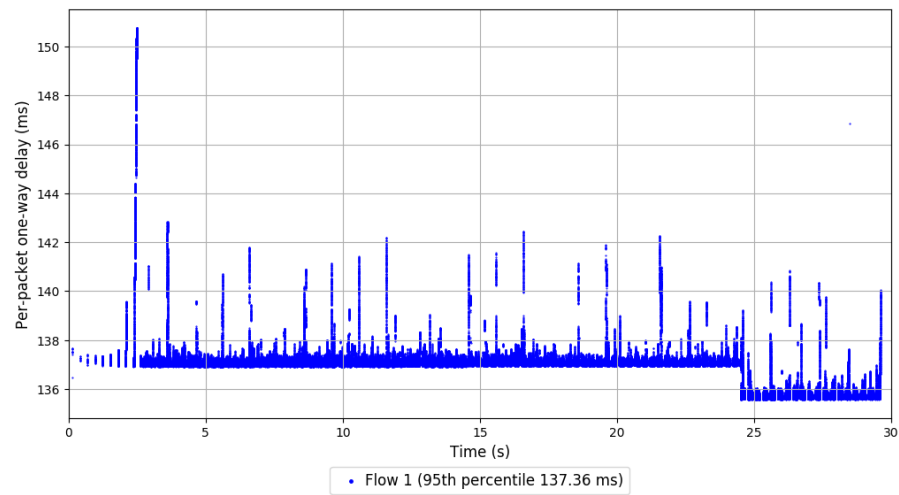
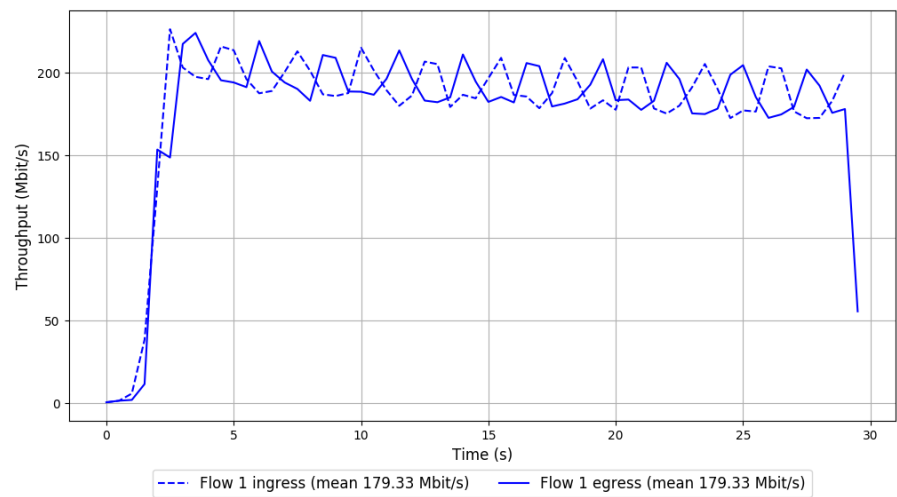
-- Flow 1:

Average throughput: 179.33 Mbit/s

95th percentile per-packet one-way delay: 137.360 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-03 20:51:10

End at: 2018-04-03 20:51:40

Below is generated by plot.py at 2018-04-03 23:38:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.42 Mbit/s

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

Loss rate: 0.00%

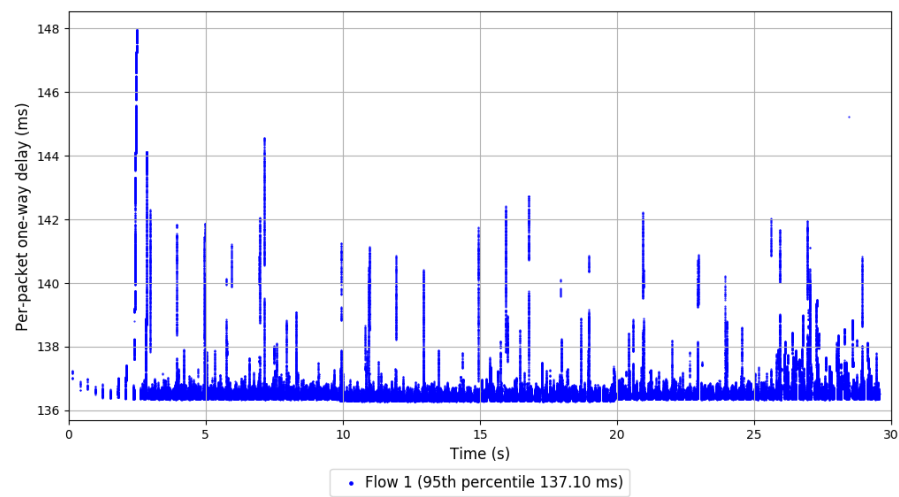
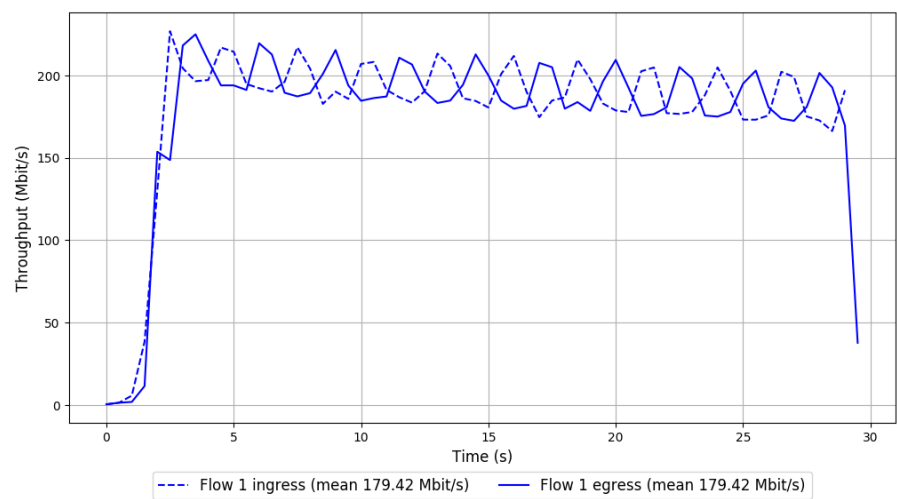
-- Flow 1:

Average throughput: 179.42 Mbit/s

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

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-03 21:06:55

End at: 2018-04-03 21:07:25

Below is generated by plot.py at 2018-04-03 23:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.32 Mbit/s

95th percentile per-packet one-way delay: 136.664 ms

Loss rate: 0.00%

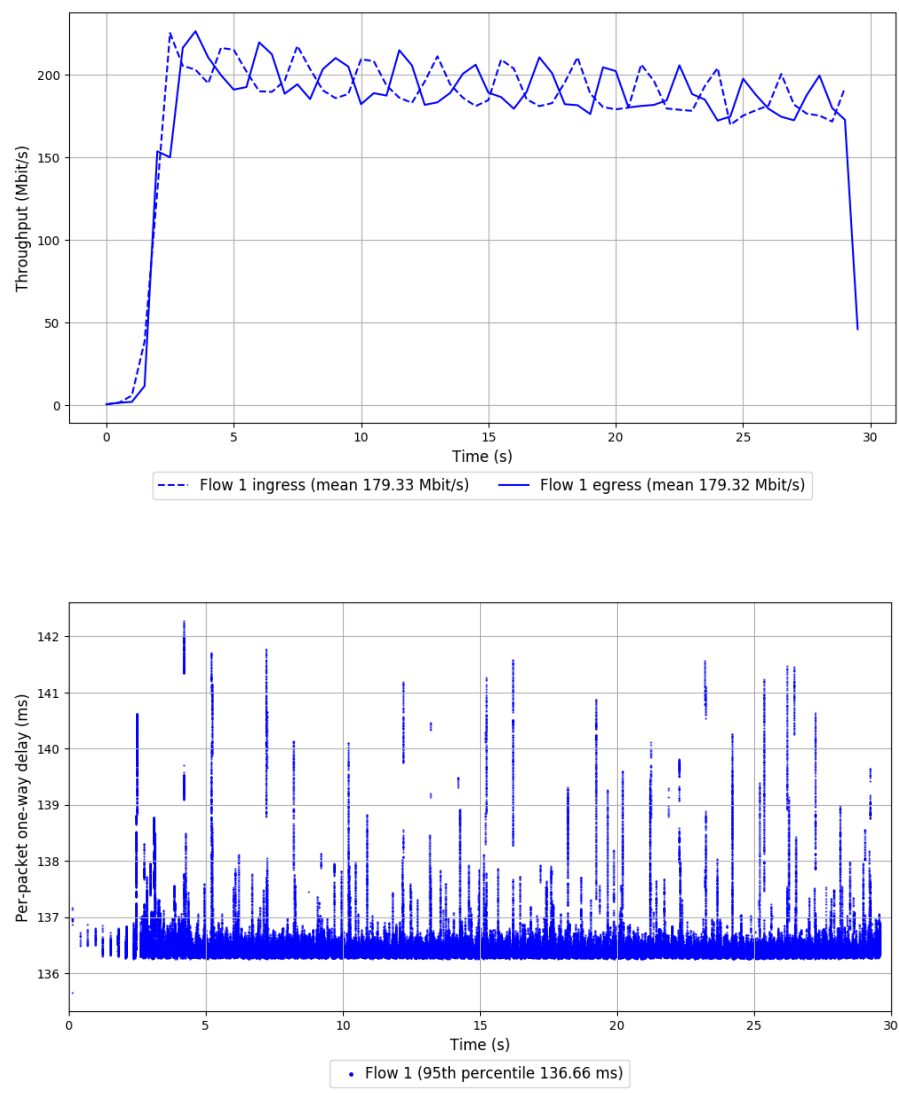
-- Flow 1:

Average throughput: 179.32 Mbit/s

95th percentile per-packet one-way delay: 136.664 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-03 18:39:19

End at: 2018-04-03 18:39:49

Below is generated by plot.py at 2018-04-03 23:43:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.62 Mbit/s

95th percentile per-packet one-way delay: 137.019 ms

Loss rate: 0.01%

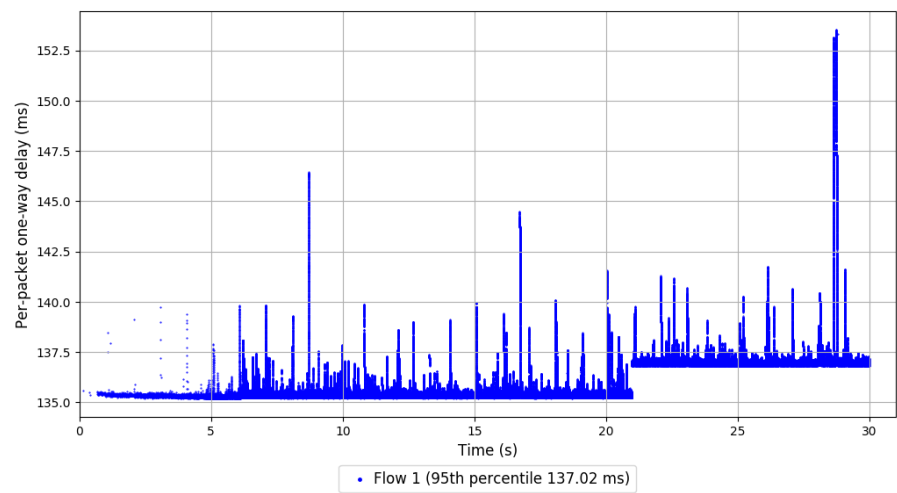
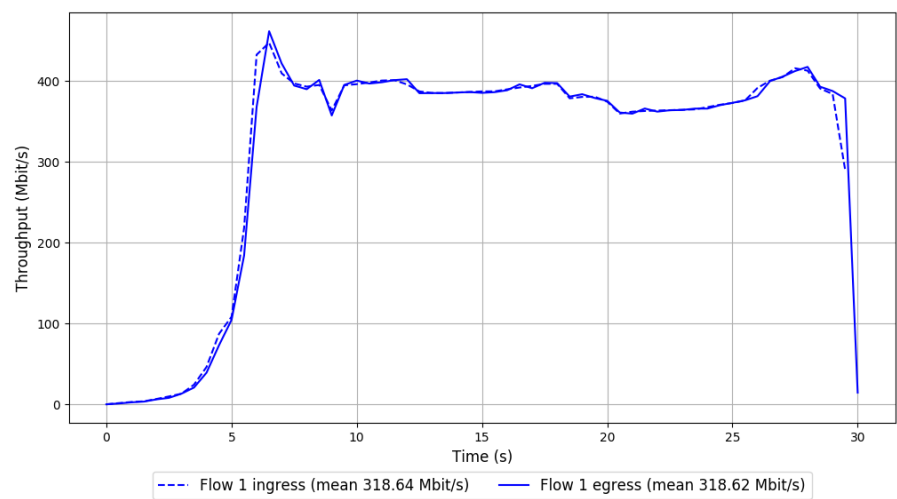
-- Flow 1:

Average throughput: 318.62 Mbit/s

95th percentile per-packet one-way delay: 137.019 ms

Loss rate: 0.01%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-03 18:55:12

End at: 2018-04-03 18:55:42

Below is generated by plot.py at 2018-04-03 23:43:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.70 Mbit/s

95th percentile per-packet one-way delay: 137.466 ms

Loss rate: 0.00%

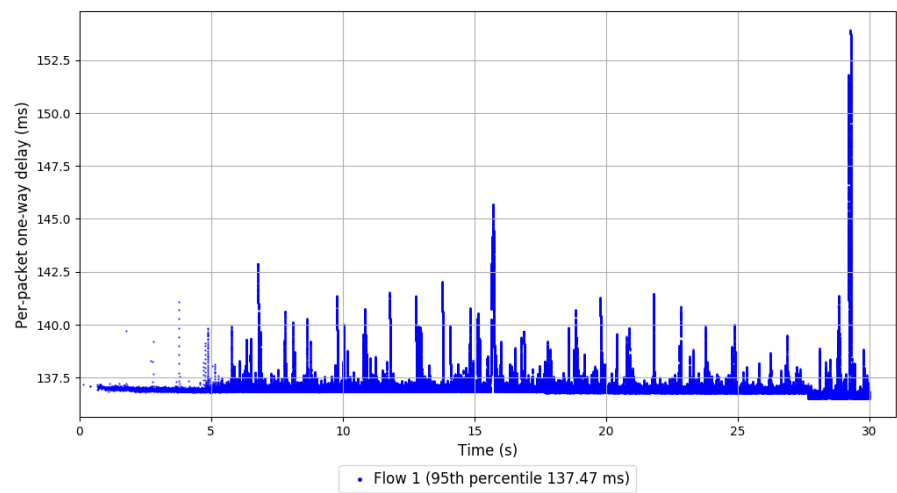
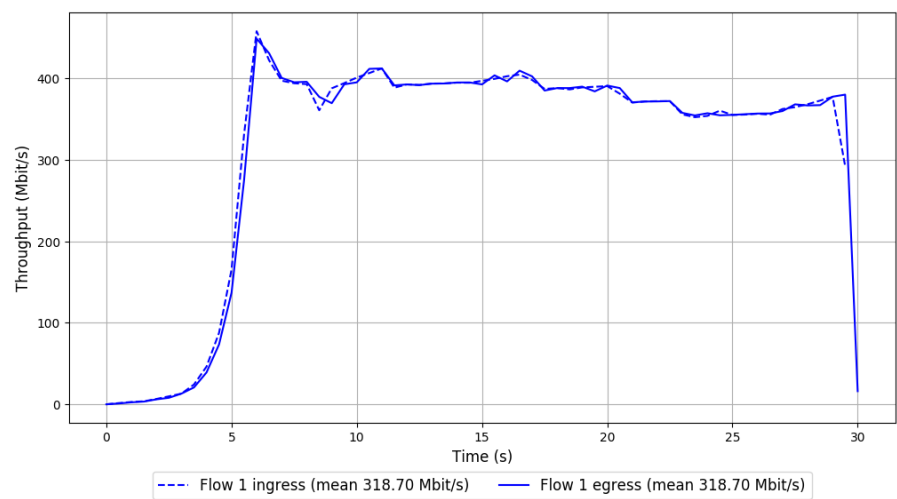
-- Flow 1:

Average throughput: 318.70 Mbit/s

95th percentile per-packet one-way delay: 137.466 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-03 19:11:20

End at: 2018-04-03 19:11:50

Below is generated by plot.py at 2018-04-03 23:44:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.38 Mbit/s

95th percentile per-packet one-way delay: 139.779 ms

Loss rate: 0.01%

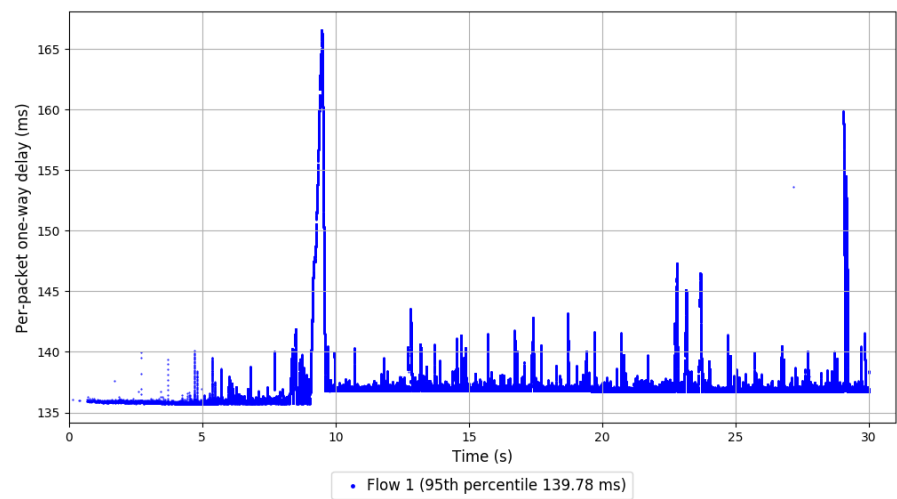
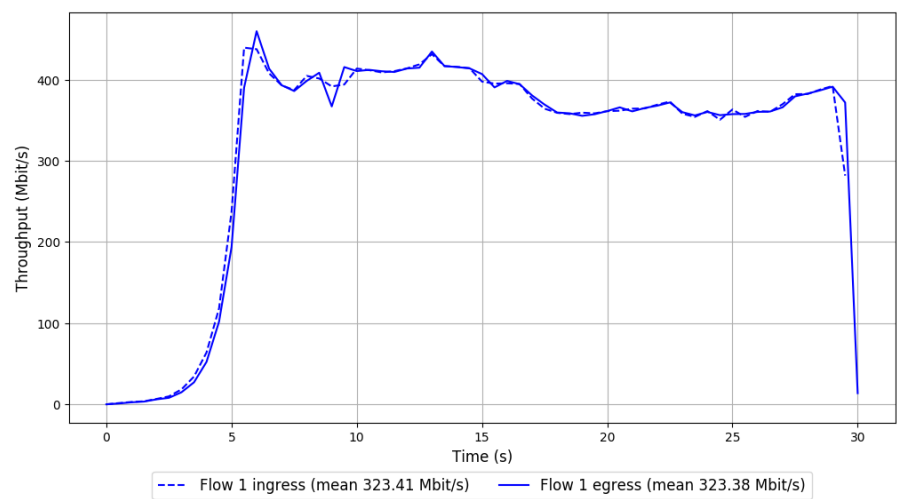
-- Flow 1:

Average throughput: 323.38 Mbit/s

95th percentile per-packet one-way delay: 139.779 ms

Loss rate: 0.01%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-03 19:27:06

End at: 2018-04-03 19:27:36

Below is generated by plot.py at 2018-04-03 23:44:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.64 Mbit/s

95th percentile per-packet one-way delay: 141.149 ms

Loss rate: 0.00%

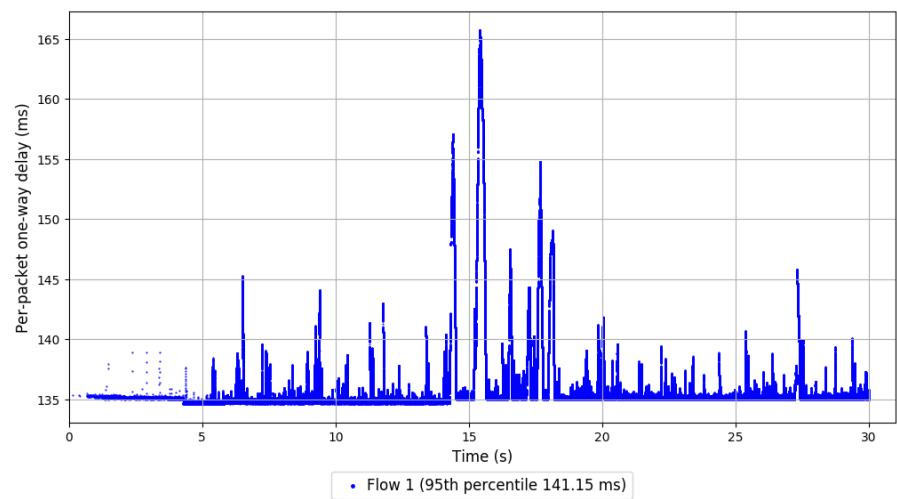
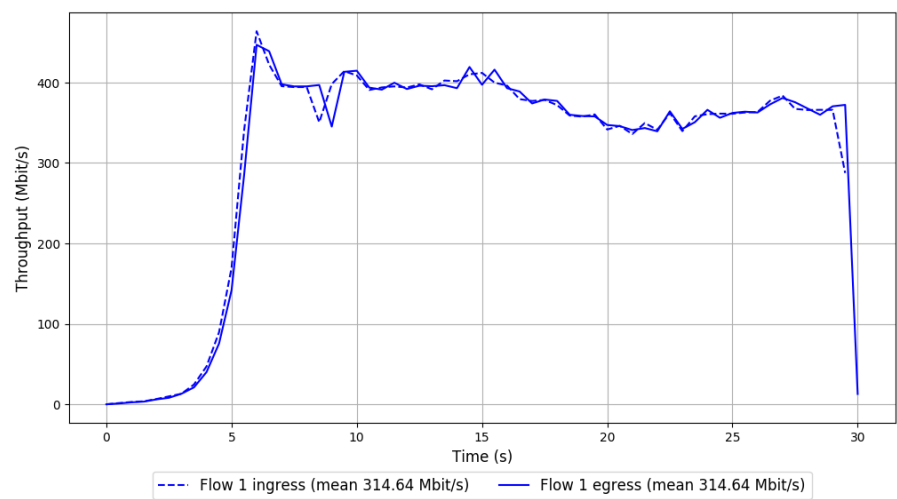
-- Flow 1:

Average throughput: 314.64 Mbit/s

95th percentile per-packet one-way delay: 141.149 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-03 19:42:58

End at: 2018-04-03 19:43:28

Below is generated by plot.py at 2018-04-03 23:44:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.04 Mbit/s

95th percentile per-packet one-way delay: 137.307 ms

Loss rate: 0.00%

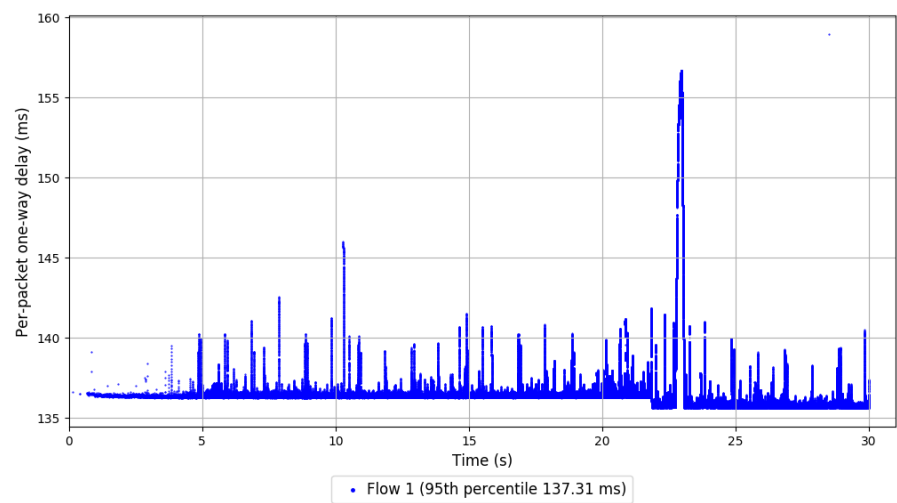
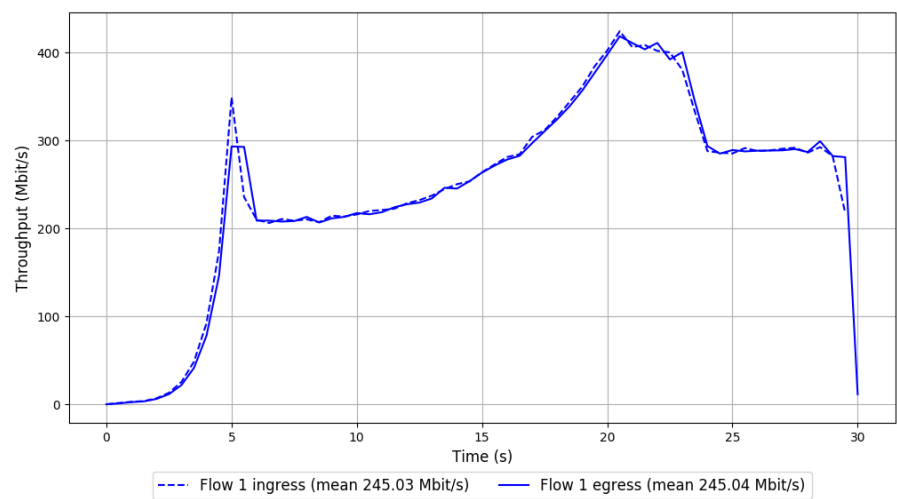
-- Flow 1:

Average throughput: 245.04 Mbit/s

95th percentile per-packet one-way delay: 137.307 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-03 19:58:56

End at: 2018-04-03 19:59:26

Below is generated by plot.py at 2018-04-03 23:45:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.52 Mbit/s

95th percentile per-packet one-way delay: 139.876 ms

Loss rate: 0.27%

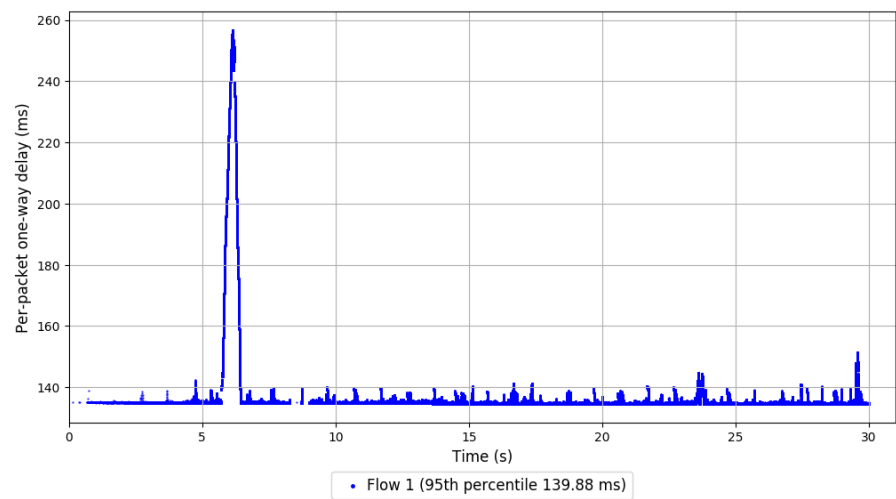
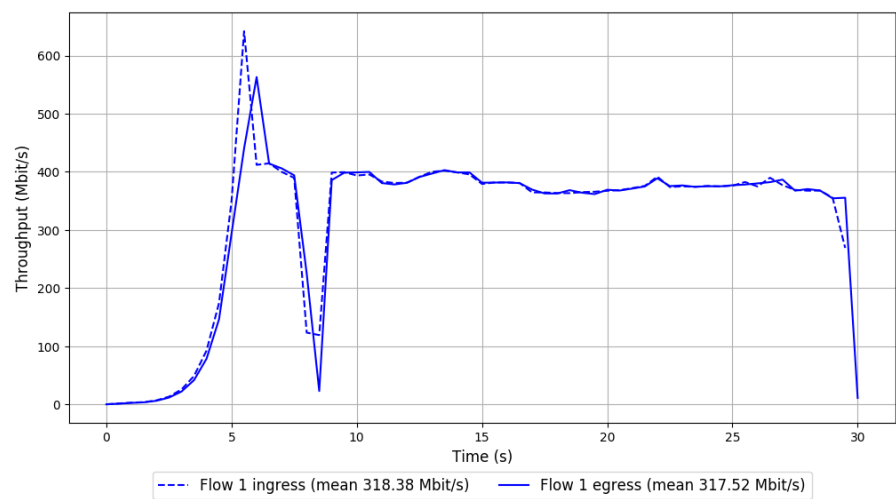
-- Flow 1:

Average throughput: 317.52 Mbit/s

95th percentile per-packet one-way delay: 139.876 ms

Loss rate: 0.27%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-03 20:14:56

End at: 2018-04-03 20:15:27

Below is generated by plot.py at 2018-04-03 23:46:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.63 Mbit/s

95th percentile per-packet one-way delay: 137.190 ms

Loss rate: 0.00%

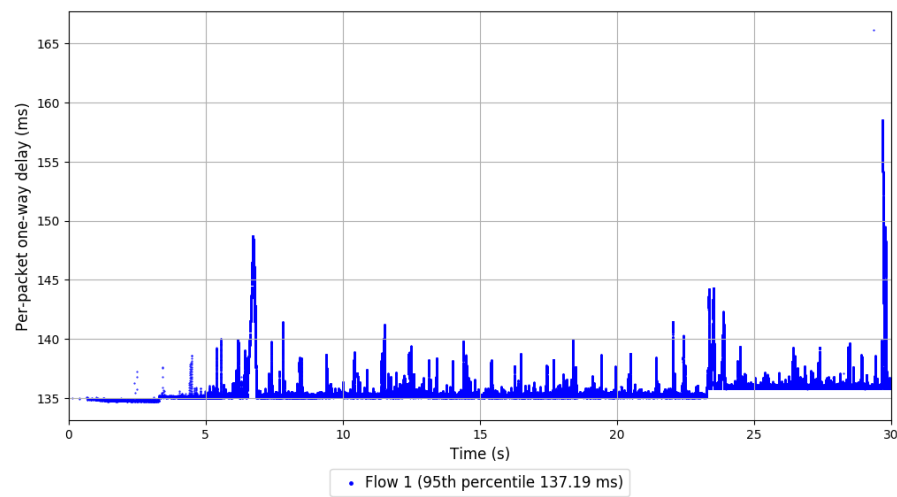
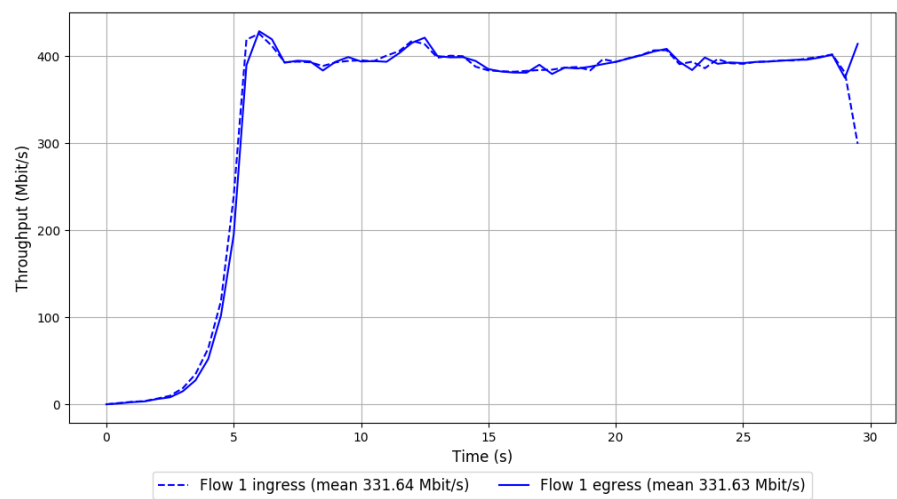
-- Flow 1:

Average throughput: 331.63 Mbit/s

95th percentile per-packet one-way delay: 137.190 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-03 20:30:47

End at: 2018-04-03 20:31:17

Below is generated by plot.py at 2018-04-03 23:47:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.38 Mbit/s

95th percentile per-packet one-way delay: 138.108 ms

Loss rate: 0.00%

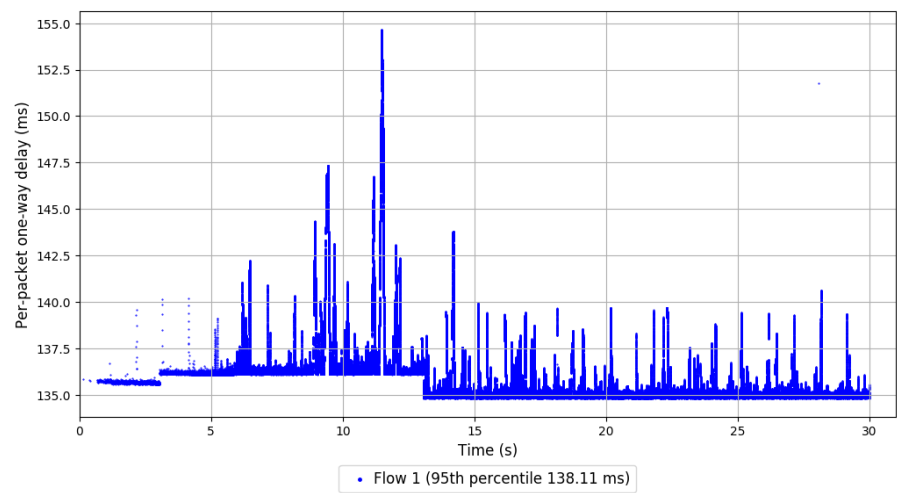
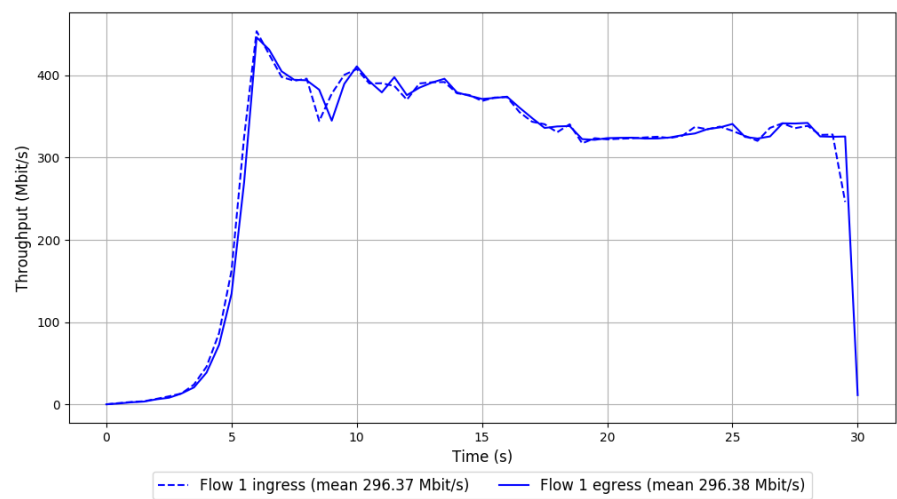
-- Flow 1:

Average throughput: 296.38 Mbit/s

95th percentile per-packet one-way delay: 138.108 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-03 20:46:34

End at: 2018-04-03 20:47:04

Below is generated by plot.py at 2018-04-03 23:51:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.92 Mbit/s

95th percentile per-packet one-way delay: 137.365 ms

Loss rate: 0.00%

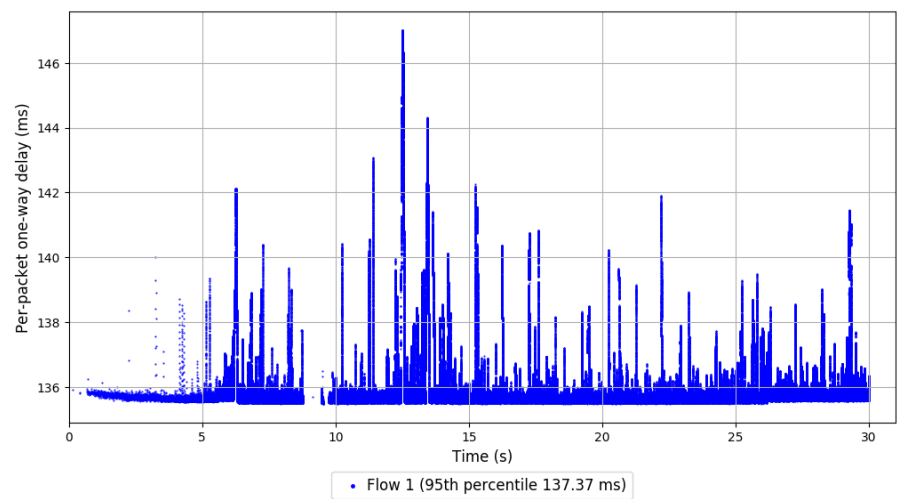
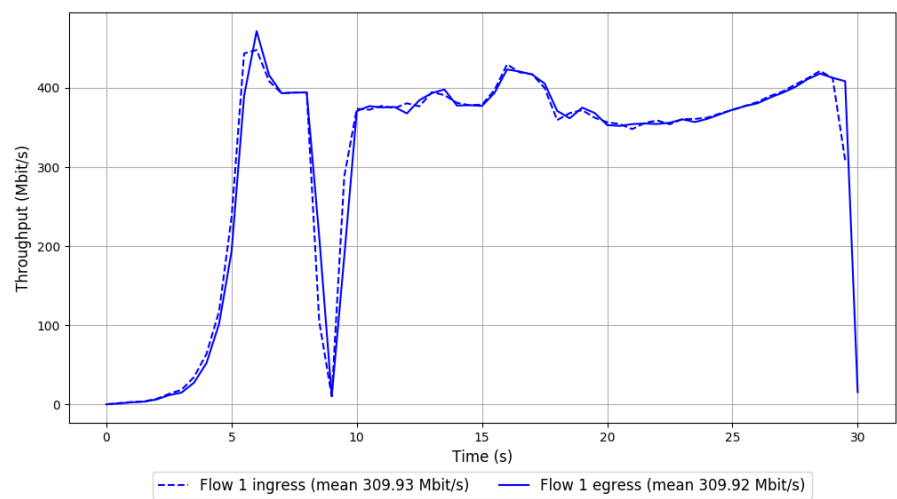
-- Flow 1:

Average throughput: 309.92 Mbit/s

95th percentile per-packet one-way delay: 137.365 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-03 21:02:19

End at: 2018-04-03 21:02:49

Below is generated by plot.py at 2018-04-03 23:51:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.15 Mbit/s

95th percentile per-packet one-way delay: 136.581 ms

Loss rate: 0.02%

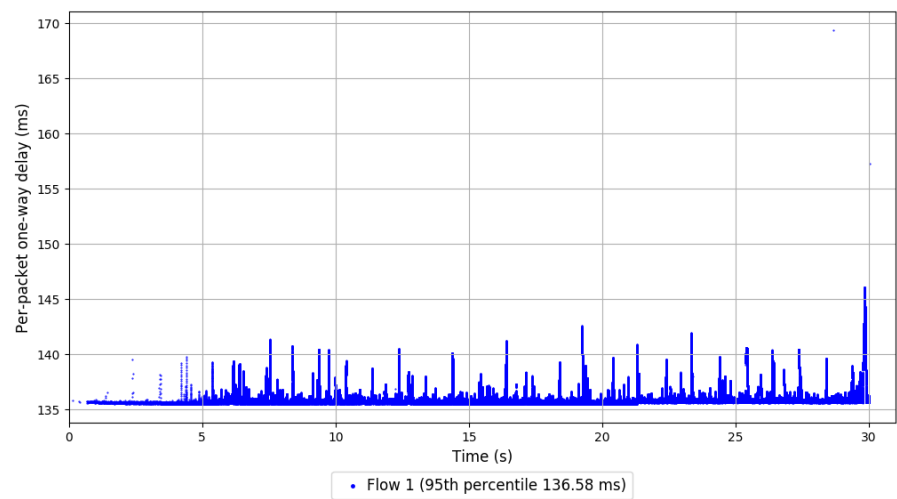
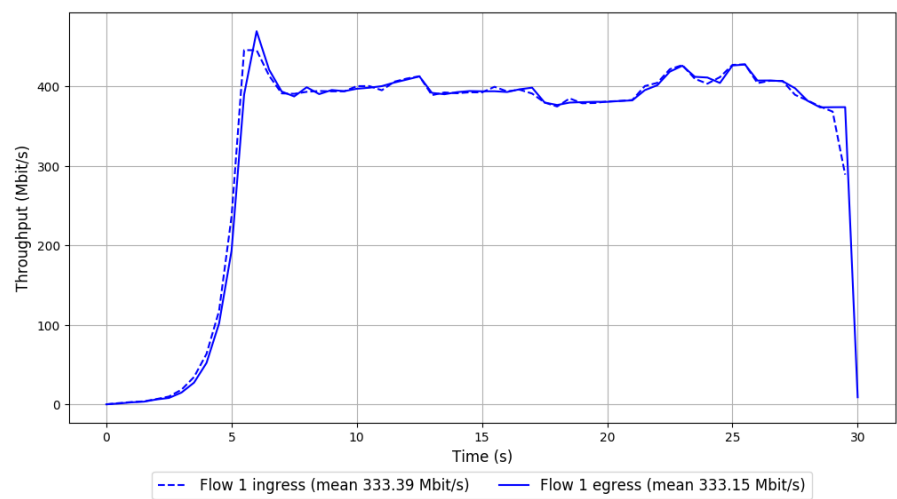
-- Flow 1:

Average throughput: 333.15 Mbit/s

95th percentile per-packet one-way delay: 136.581 ms

Loss rate: 0.02%

Run 10: Report of Vivace-latency — Data Link

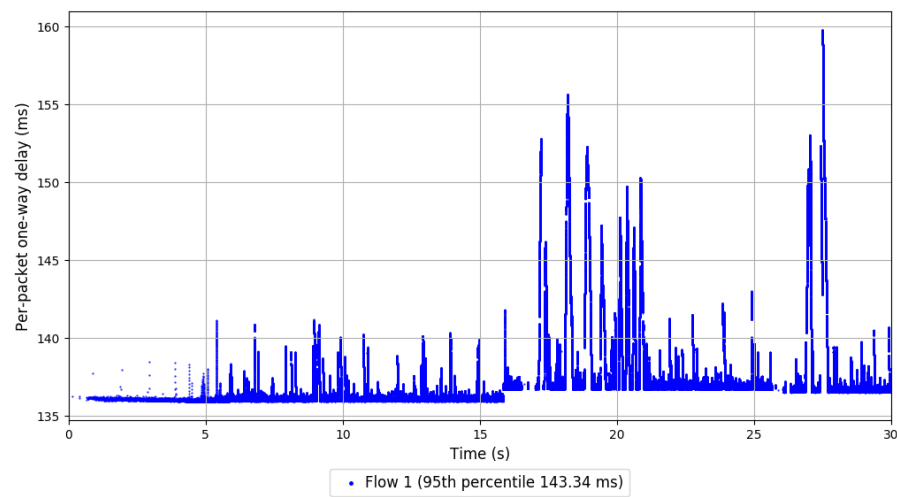
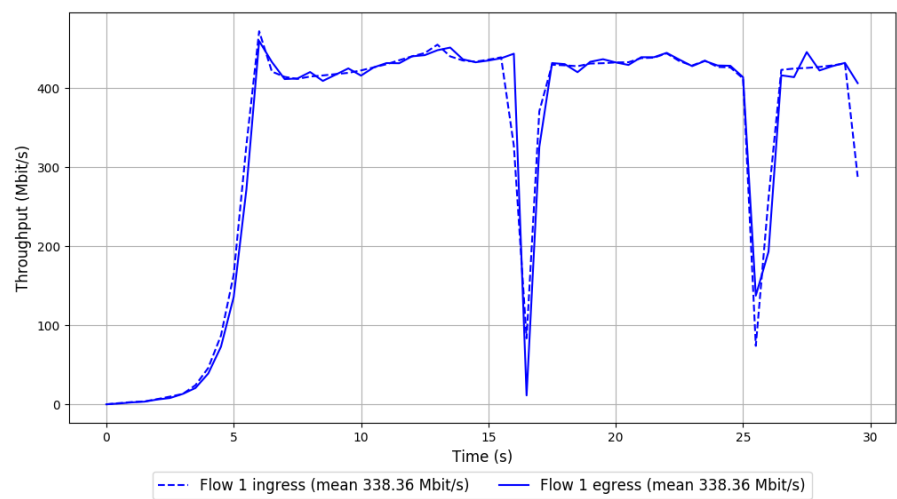


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-03 18:35:34
End at: 2018-04-03 18:36:04

# Below is generated by plot.py at 2018-04-03 23:51:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 338.36 Mbit/s
95th percentile per-packet one-way delay: 143.335 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 338.36 Mbit/s
95th percentile per-packet one-way delay: 143.335 ms
Loss rate: 0.01%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-03 18:51:25

End at: 2018-04-03 18:51:55

Below is generated by plot.py at 2018-04-03 23:52:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.68 Mbit/s

95th percentile per-packet one-way delay: 136.919 ms

Loss rate: 0.00%

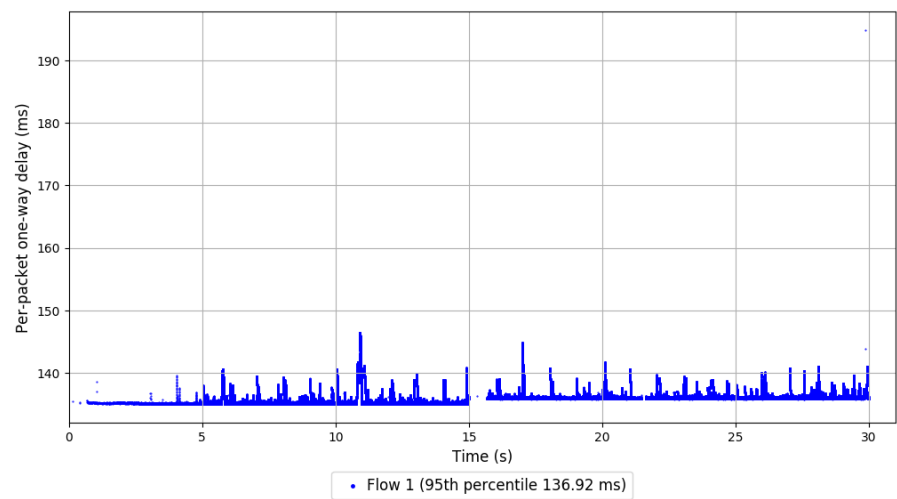
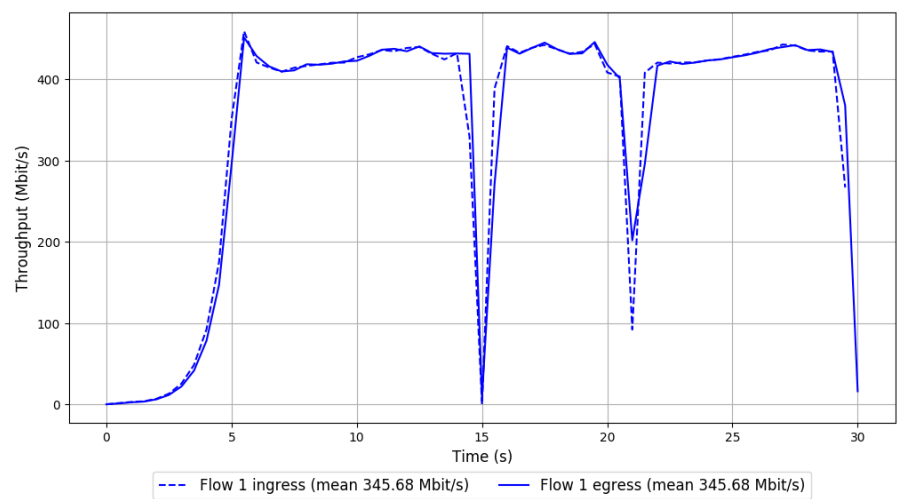
-- Flow 1:

Average throughput: 345.68 Mbit/s

95th percentile per-packet one-way delay: 136.919 ms

Loss rate: 0.00%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-03 19:07:34

End at: 2018-04-03 19:08:04

Below is generated by plot.py at 2018-04-03 23:52:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.73 Mbit/s

95th percentile per-packet one-way delay: 138.771 ms

Loss rate: 0.00%

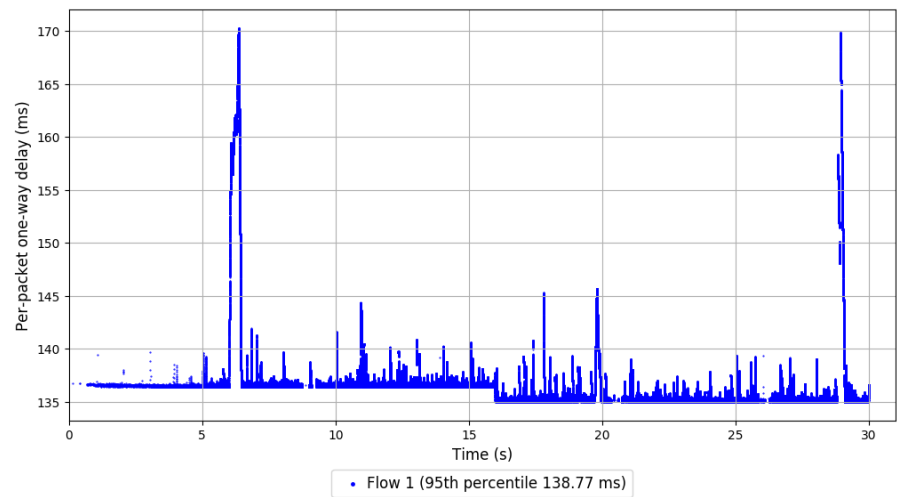
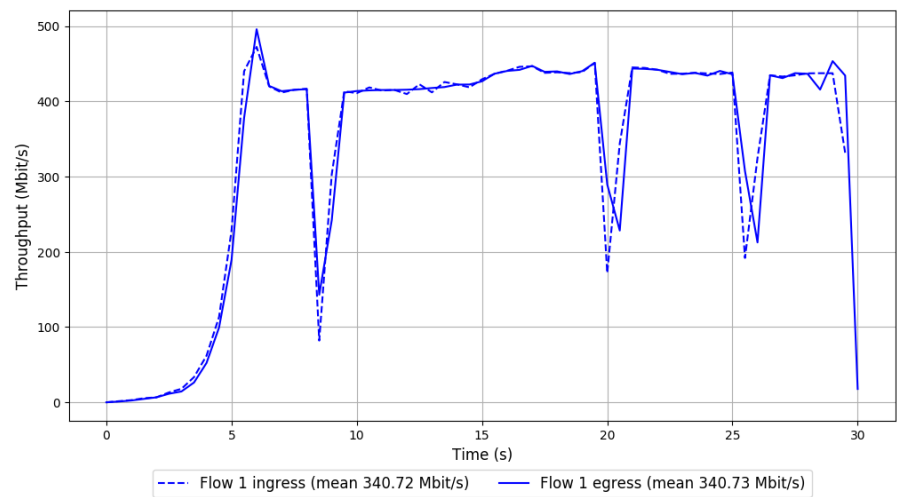
-- Flow 1:

Average throughput: 340.73 Mbit/s

95th percentile per-packet one-way delay: 138.771 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-03 19:23:21

End at: 2018-04-03 19:23:51

Below is generated by plot.py at 2018-04-03 23:53:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.76 Mbit/s

95th percentile per-packet one-way delay: 139.147 ms

Loss rate: 0.00%

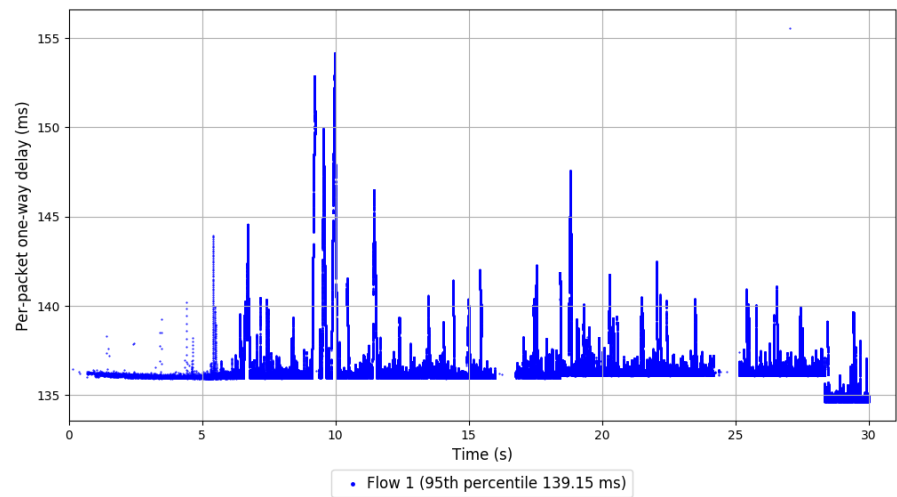
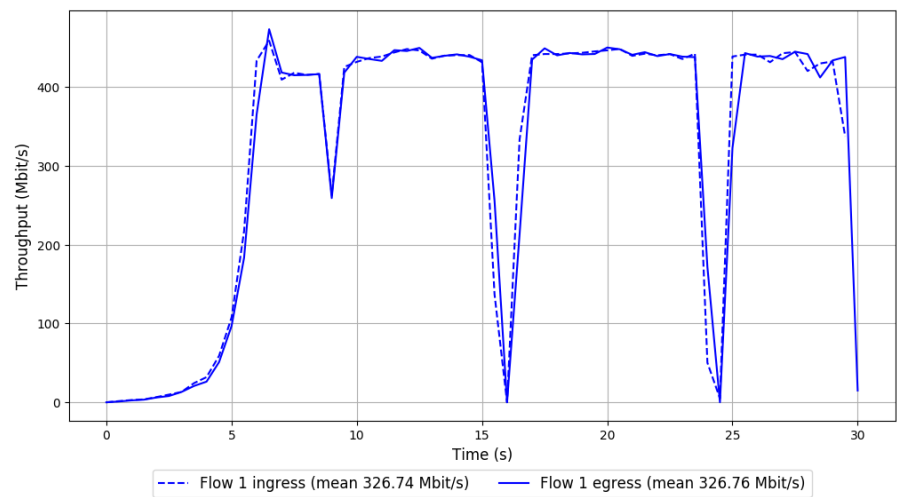
-- Flow 1:

Average throughput: 326.76 Mbit/s

95th percentile per-packet one-way delay: 139.147 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-03 19:39:13

End at: 2018-04-03 19:39:43

Below is generated by plot.py at 2018-04-03 23:53:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.81 Mbit/s

95th percentile per-packet one-way delay: 151.132 ms

Loss rate: 0.01%

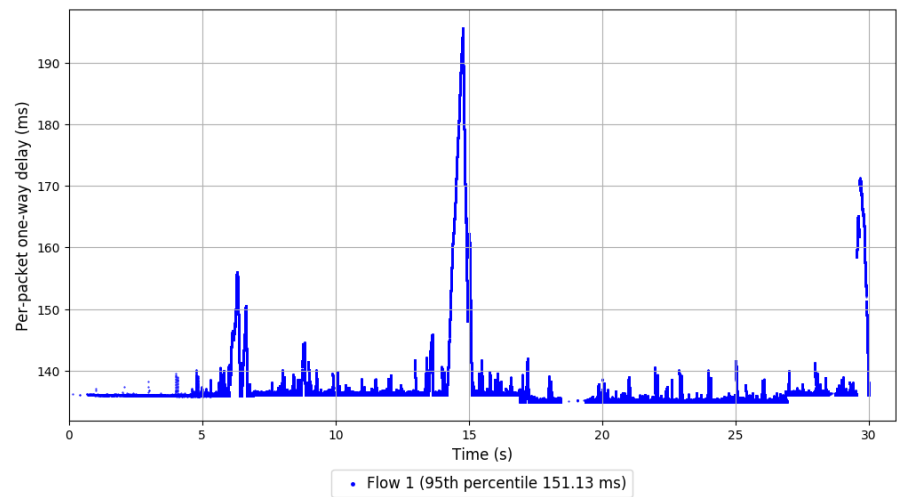
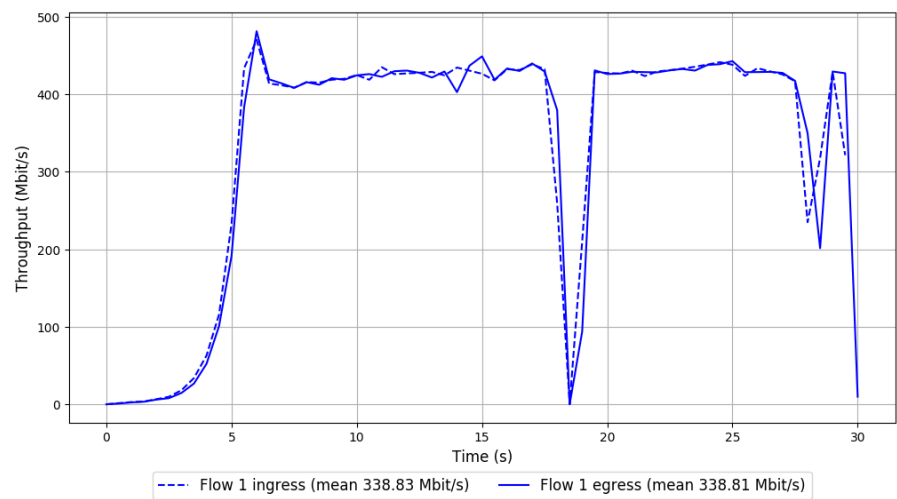
-- Flow 1:

Average throughput: 338.81 Mbit/s

95th percentile per-packet one-way delay: 151.132 ms

Loss rate: 0.01%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-03 19:55:15

End at: 2018-04-03 19:55:45

Below is generated by plot.py at 2018-04-03 23:53:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.71 Mbit/s

95th percentile per-packet one-way delay: 140.573 ms

Loss rate: 0.00%

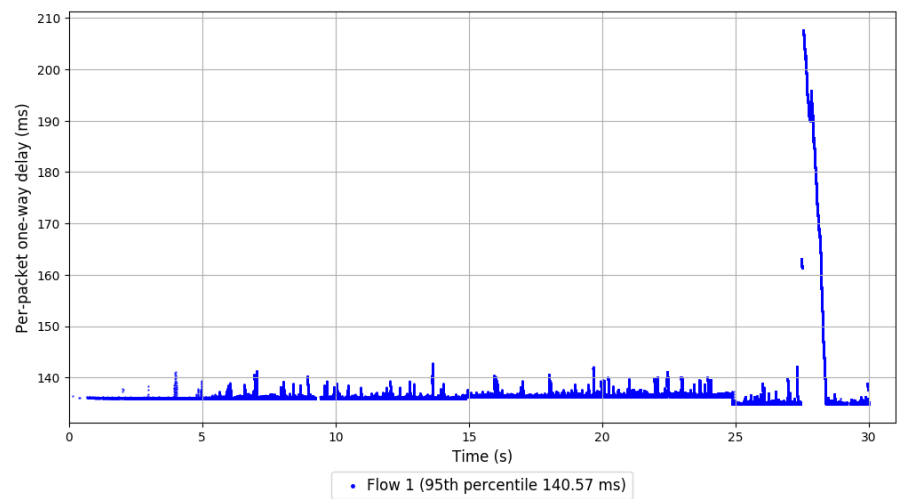
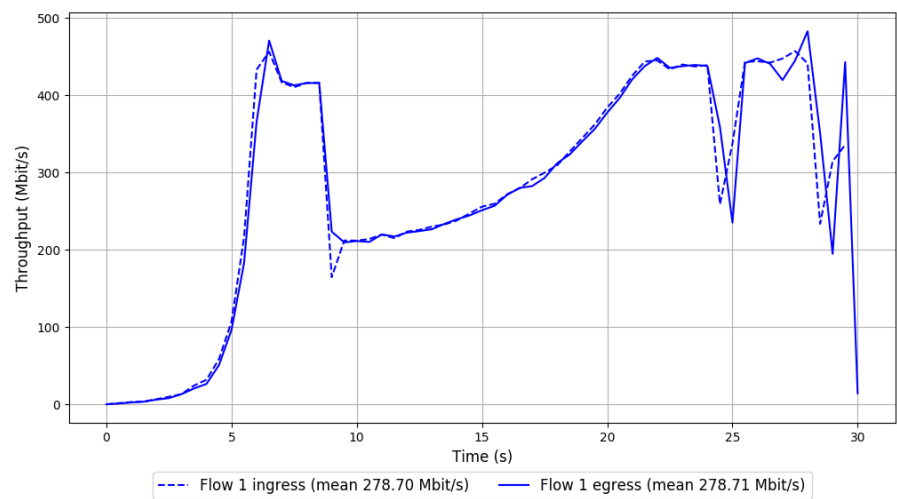
-- Flow 1:

Average throughput: 278.71 Mbit/s

95th percentile per-packet one-way delay: 140.573 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-03 20:11:17

End at: 2018-04-03 20:11:47

Below is generated by plot.py at 2018-04-03 23:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.79 Mbit/s

95th percentile per-packet one-way delay: 142.696 ms

Loss rate: 0.00%

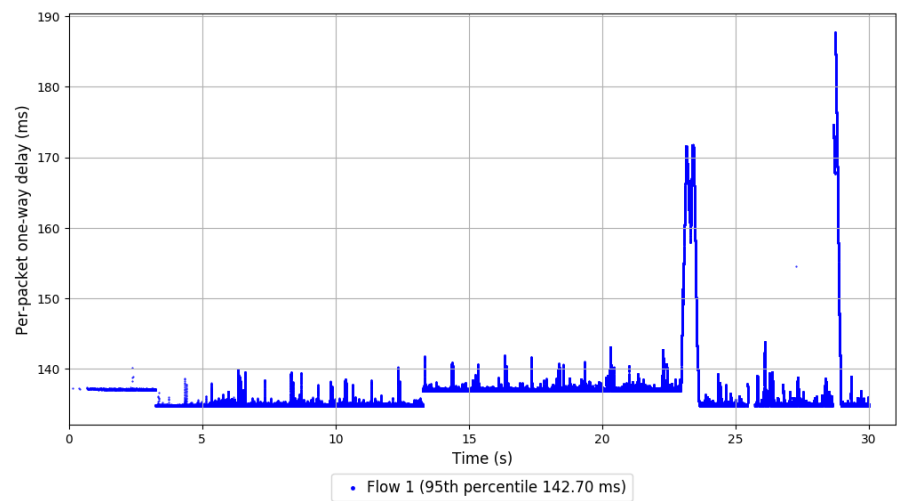
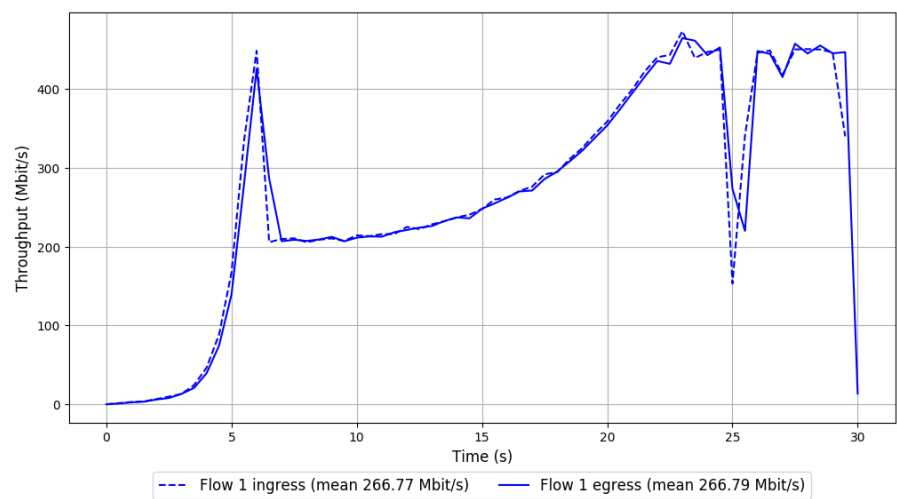
-- Flow 1:

Average throughput: 266.79 Mbit/s

95th percentile per-packet one-way delay: 142.696 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-03 20:27:07

End at: 2018-04-03 20:27:37

Below is generated by plot.py at 2018-04-03 23:58:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.09 Mbit/s

95th percentile per-packet one-way delay: 138.157 ms

Loss rate: 0.03%

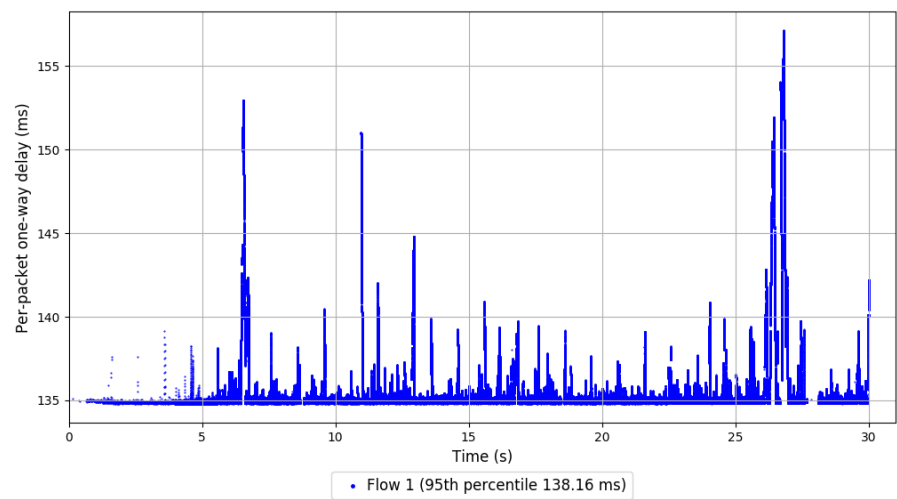
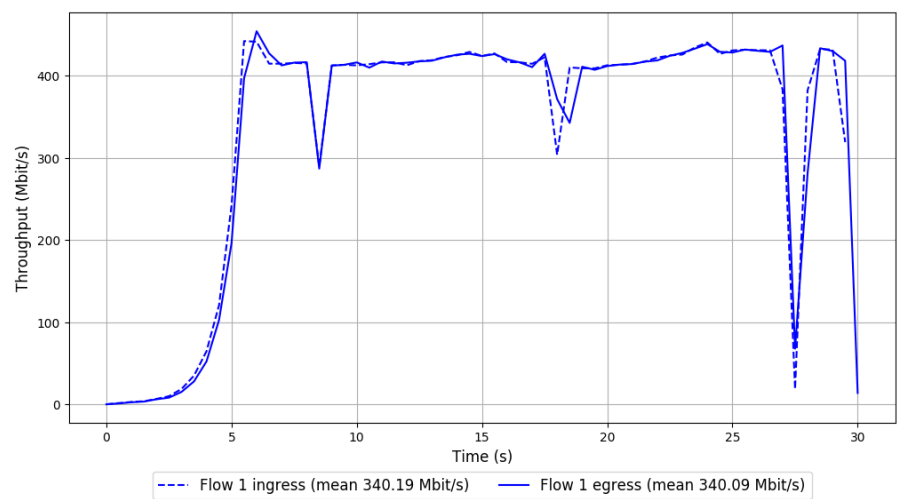
-- Flow 1:

Average throughput: 340.09 Mbit/s

95th percentile per-packet one-way delay: 138.157 ms

Loss rate: 0.03%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-03 20:42:49

End at: 2018-04-03 20:43:19

Below is generated by plot.py at 2018-04-03 23:58:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.81 Mbit/s

95th percentile per-packet one-way delay: 156.904 ms

Loss rate: 0.00%

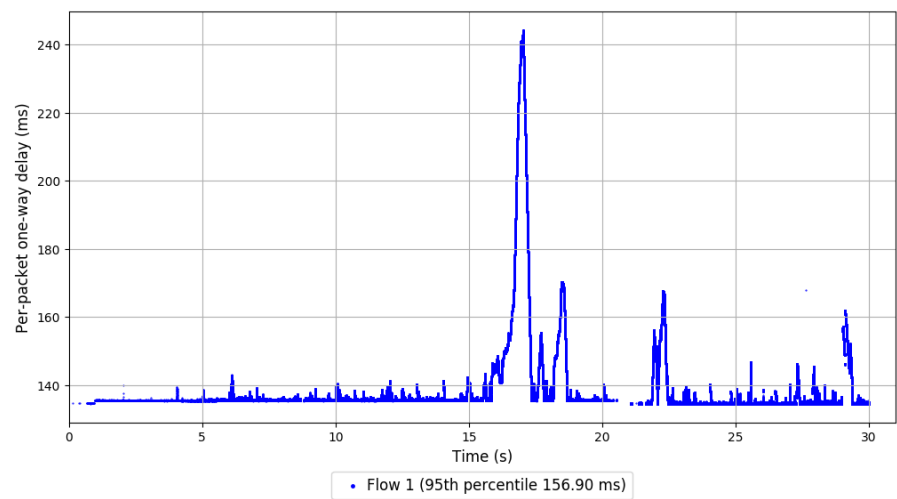
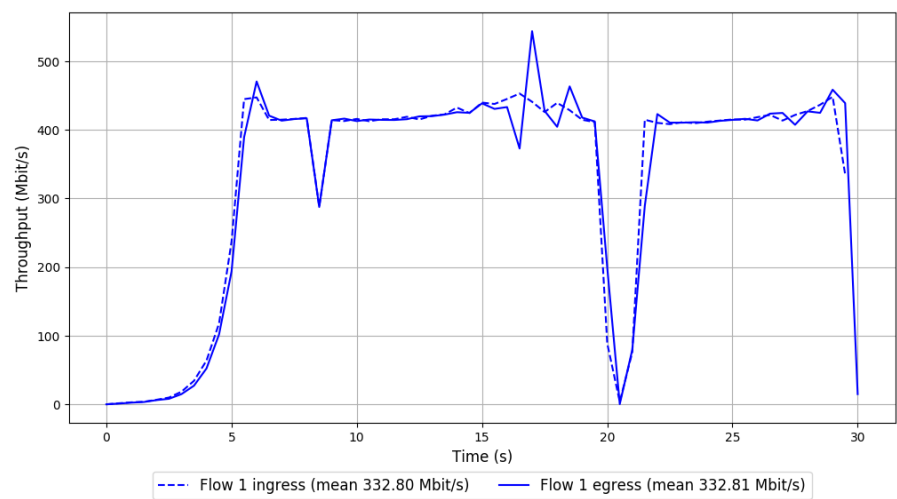
-- Flow 1:

Average throughput: 332.81 Mbit/s

95th percentile per-packet one-way delay: 156.904 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-03 20:58:34

End at: 2018-04-03 20:59:04

Below is generated by plot.py at 2018-04-03 23:59:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.06 Mbit/s

95th percentile per-packet one-way delay: 139.086 ms

Loss rate: 0.00%

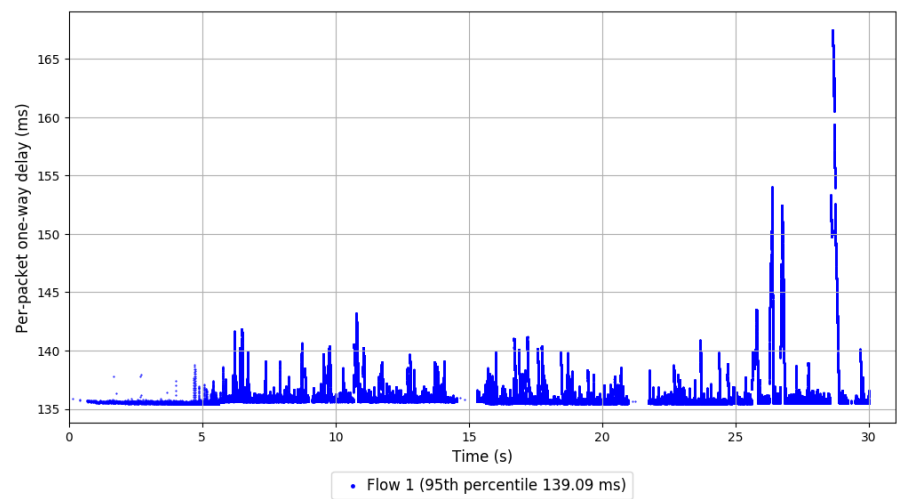
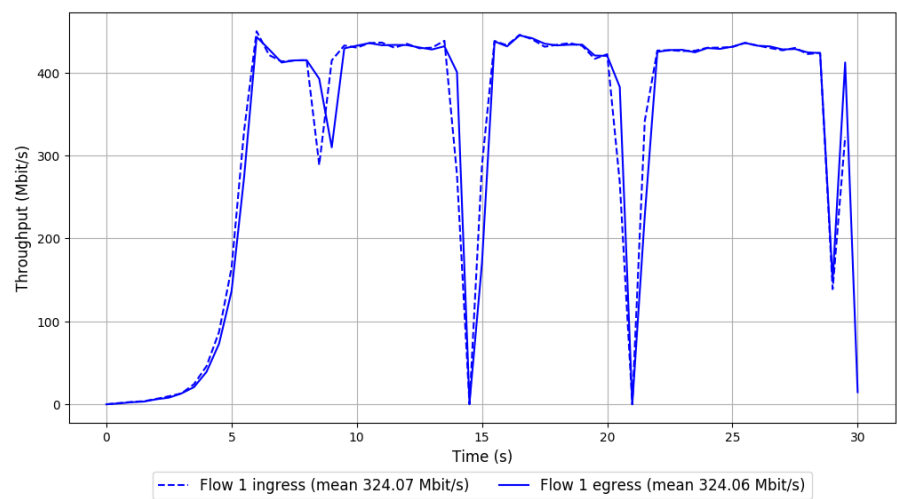
-- Flow 1:

Average throughput: 324.06 Mbit/s

95th percentile per-packet one-way delay: 139.086 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

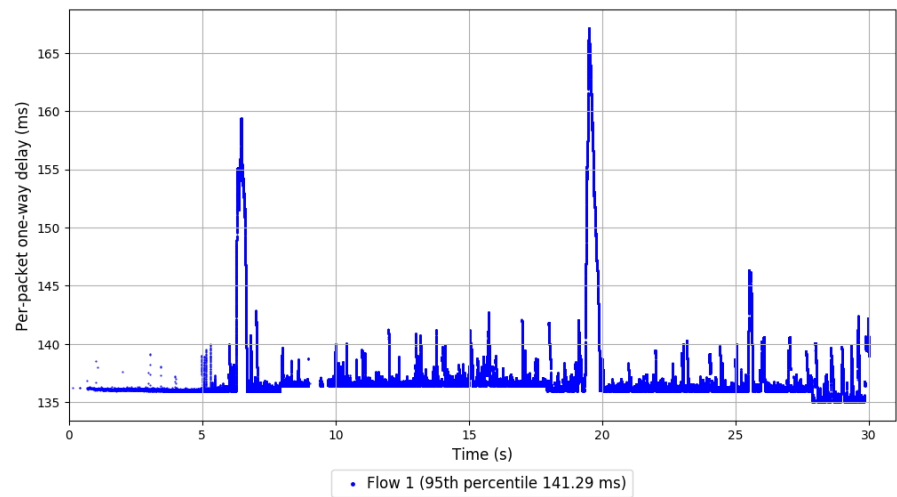
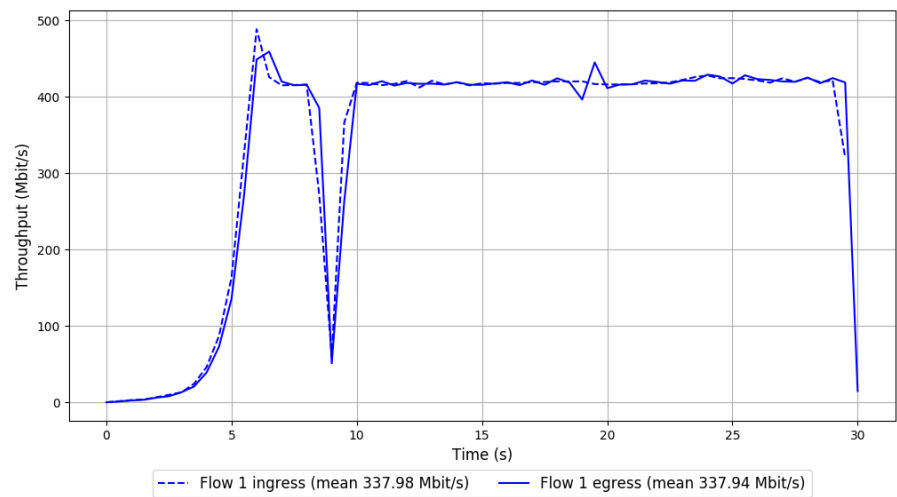


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-03 18:36:42
End at: 2018-04-03 18:37:12

# Below is generated by plot.py at 2018-04-04 00:00:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 337.94 Mbit/s
95th percentile per-packet one-way delay: 141.290 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 337.94 Mbit/s
95th percentile per-packet one-way delay: 141.290 ms
Loss rate: 0.01%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-03 18:52:33

End at: 2018-04-03 18:53:03

Below is generated by plot.py at 2018-04-04 00:00:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.90 Mbit/s

95th percentile per-packet one-way delay: 145.785 ms

Loss rate: 0.00%

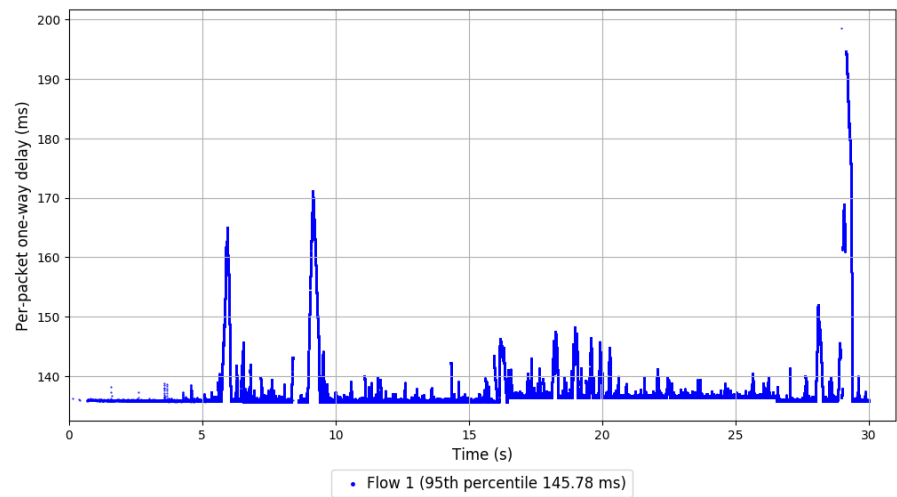
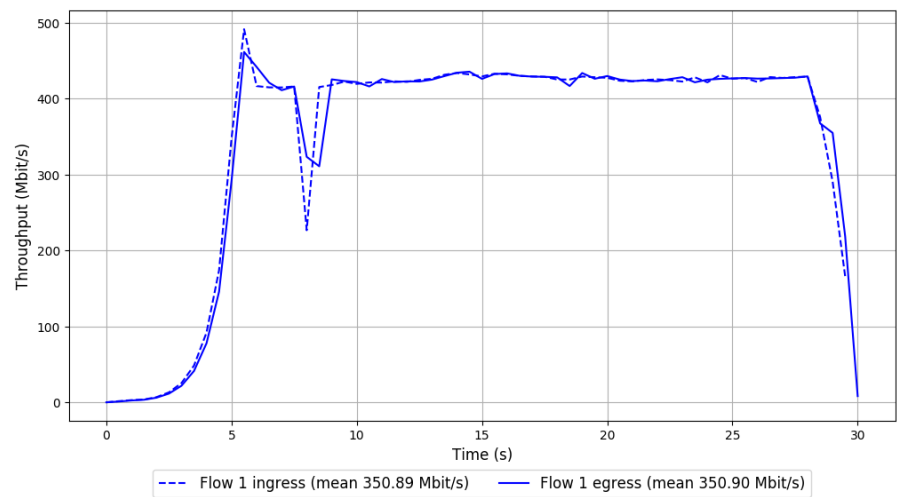
-- Flow 1:

Average throughput: 350.90 Mbit/s

95th percentile per-packet one-way delay: 145.785 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-03 19:08:42

End at: 2018-04-03 19:09:12

Below is generated by plot.py at 2018-04-04 00:01:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.27 Mbit/s

95th percentile per-packet one-way delay: 139.798 ms

Loss rate: 0.00%

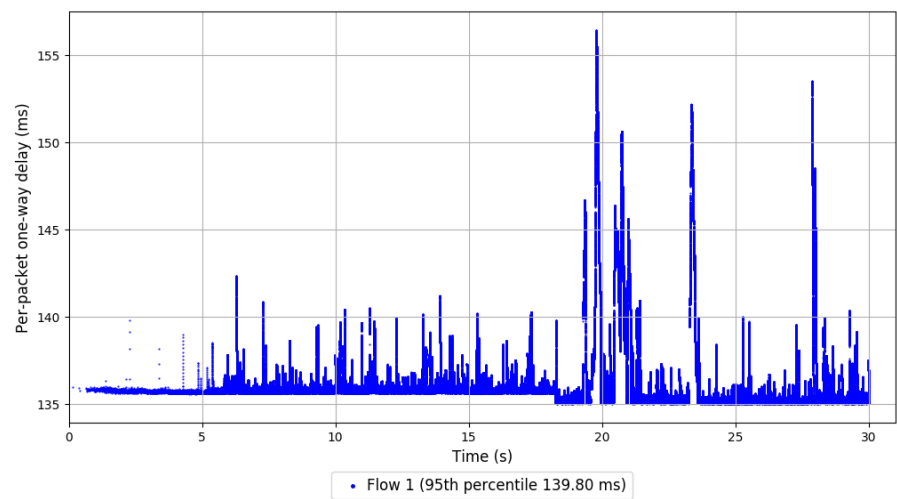
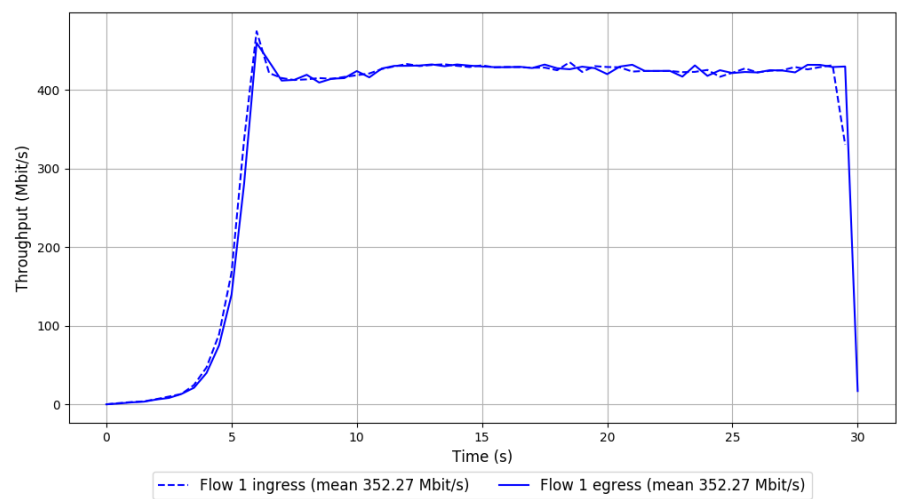
-- Flow 1:

Average throughput: 352.27 Mbit/s

95th percentile per-packet one-way delay: 139.798 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-03 19:24:29

End at: 2018-04-03 19:24:59

Below is generated by plot.py at 2018-04-04 00:01:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.63 Mbit/s

95th percentile per-packet one-way delay: 145.329 ms

Loss rate: 0.00%

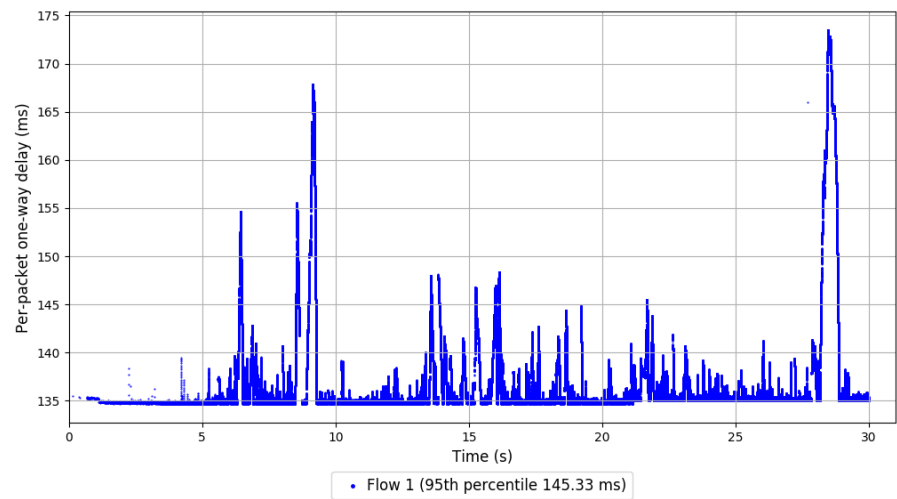
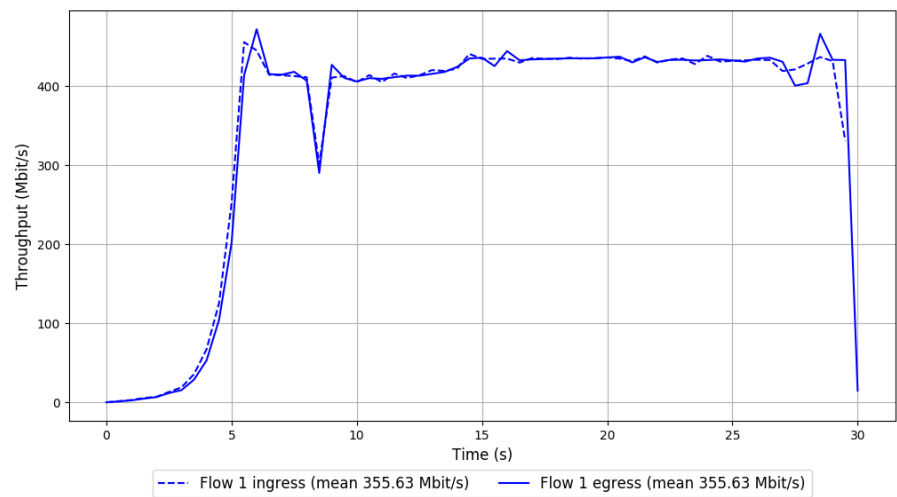
-- Flow 1:

Average throughput: 355.63 Mbit/s

95th percentile per-packet one-way delay: 145.329 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-03 19:40:21

End at: 2018-04-03 19:40:51

Below is generated by plot.py at 2018-04-04 00:04:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.53 Mbit/s

95th percentile per-packet one-way delay: 140.845 ms

Loss rate: 0.03%

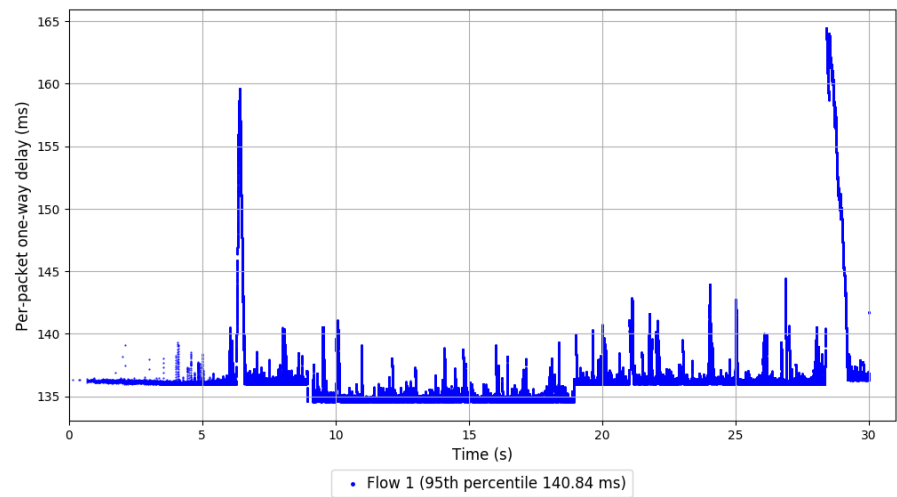
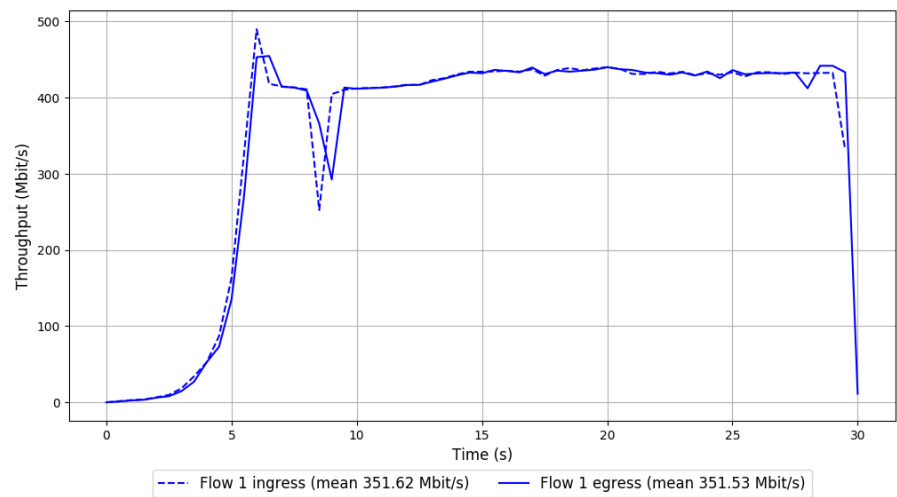
-- Flow 1:

Average throughput: 351.53 Mbit/s

95th percentile per-packet one-way delay: 140.845 ms

Loss rate: 0.03%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-03 19:56:18

End at: 2018-04-03 19:56:48

Below is generated by plot.py at 2018-04-04 00:05:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.80 Mbit/s

95th percentile per-packet one-way delay: 140.546 ms

Loss rate: 0.00%

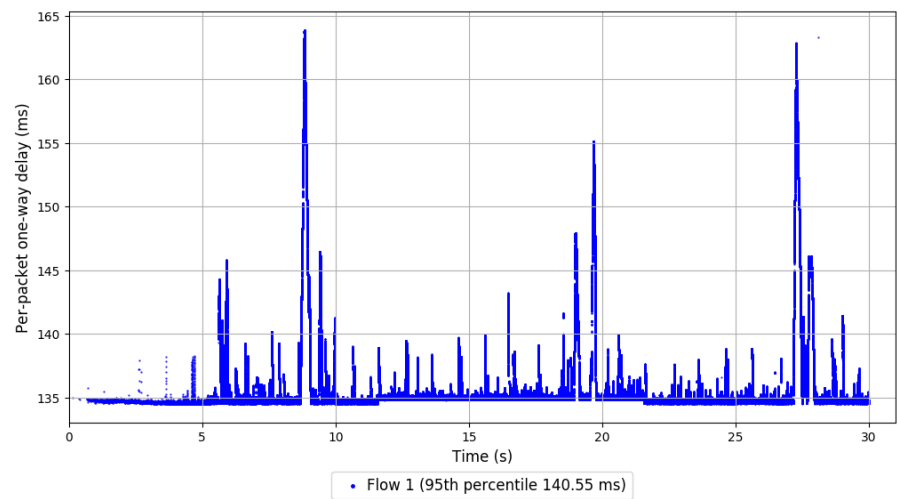
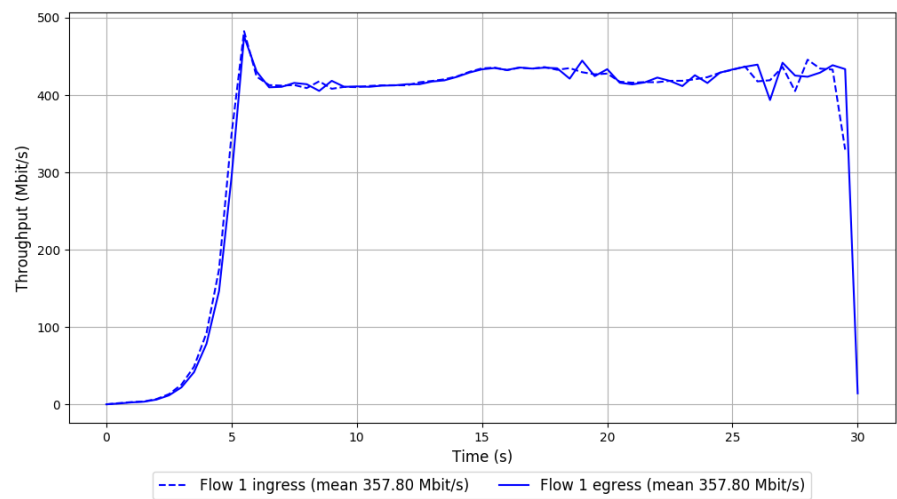
-- Flow 1:

Average throughput: 357.80 Mbit/s

95th percentile per-packet one-way delay: 140.546 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-03 20:12:19

End at: 2018-04-03 20:12:50

Below is generated by plot.py at 2018-04-04 00:05:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.26 Mbit/s

95th percentile per-packet one-way delay: 138.296 ms

Loss rate: 0.00%

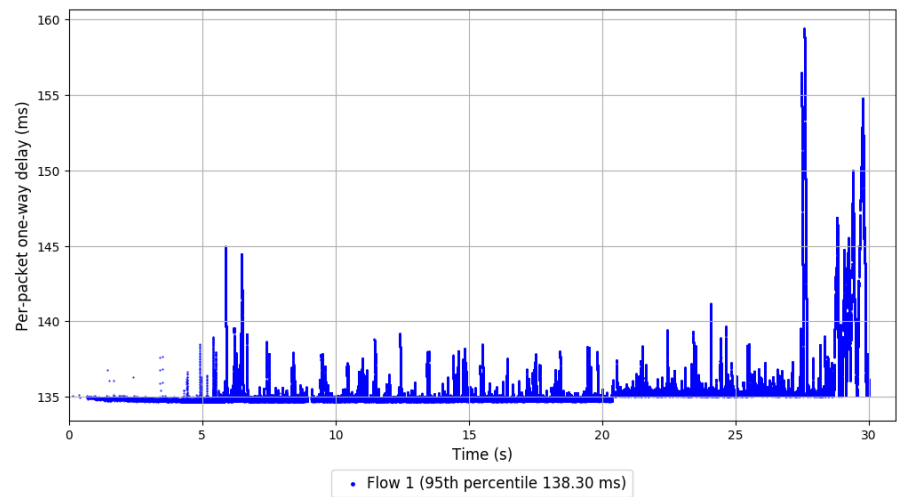
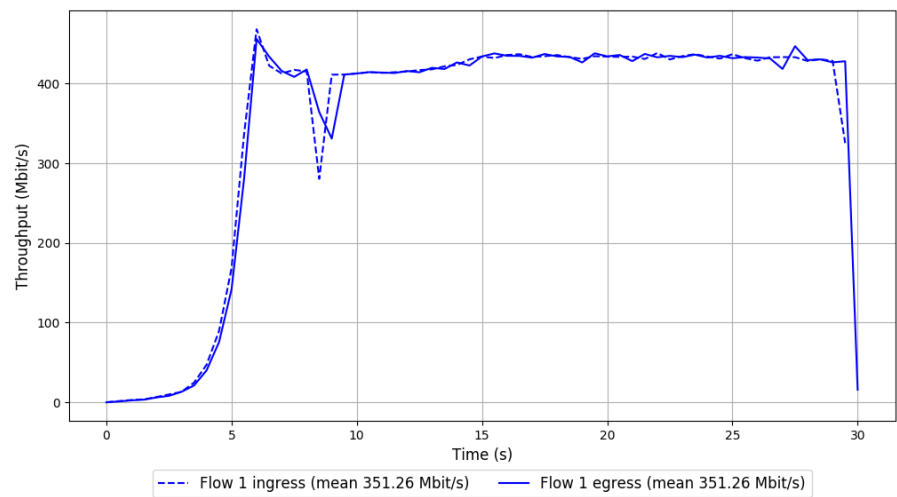
-- Flow 1:

Average throughput: 351.26 Mbit/s

95th percentile per-packet one-way delay: 138.296 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-03 20:28:15

End at: 2018-04-03 20:28:45

Below is generated by plot.py at 2018-04-04 00:05:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.26 Mbit/s

95th percentile per-packet one-way delay: 137.054 ms

Loss rate: 0.00%

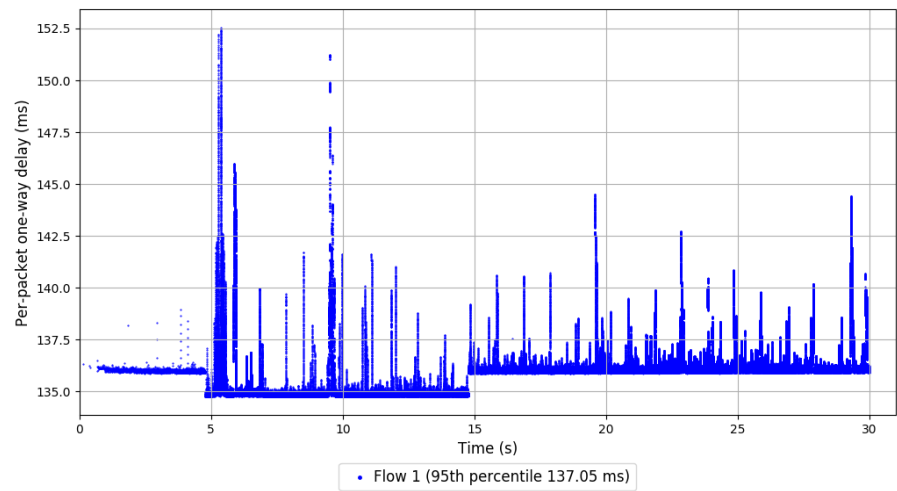
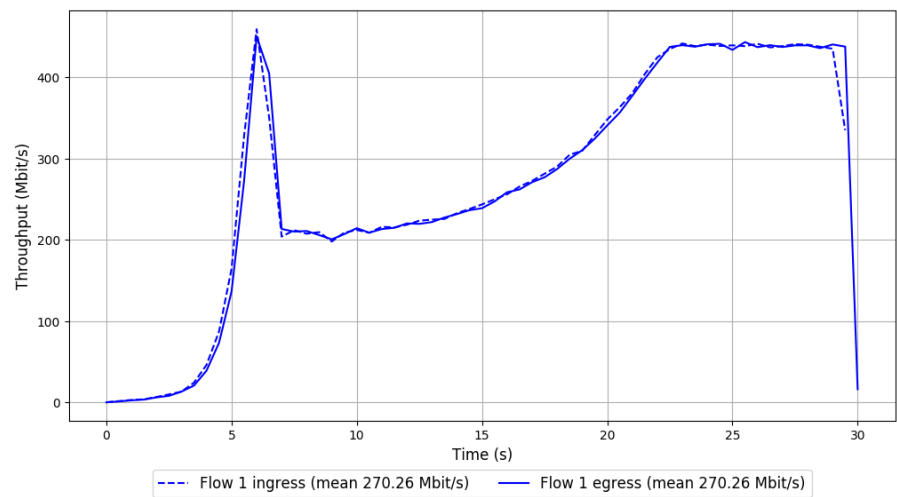
-- Flow 1:

Average throughput: 270.26 Mbit/s

95th percentile per-packet one-way delay: 137.054 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-03 20:43:57

End at: 2018-04-03 20:44:27

Below is generated by plot.py at 2018-04-04 00:05:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.66 Mbit/s

95th percentile per-packet one-way delay: 135.741 ms

Loss rate: 0.00%

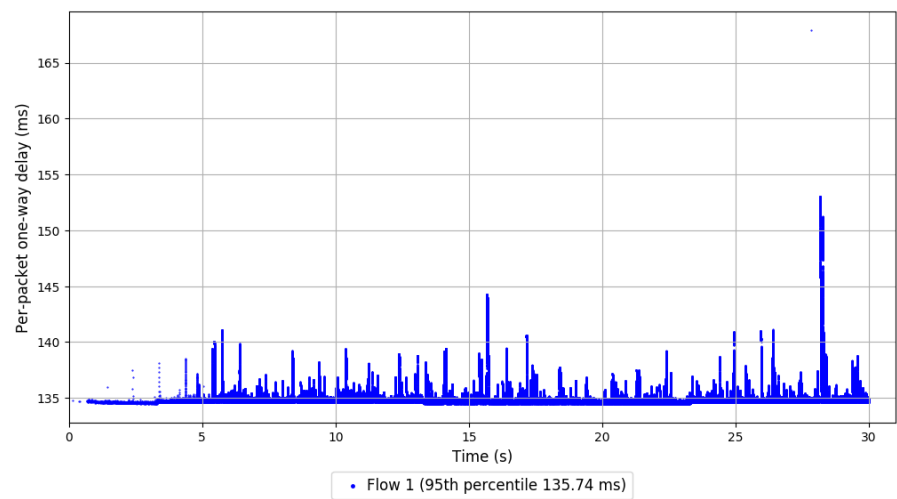
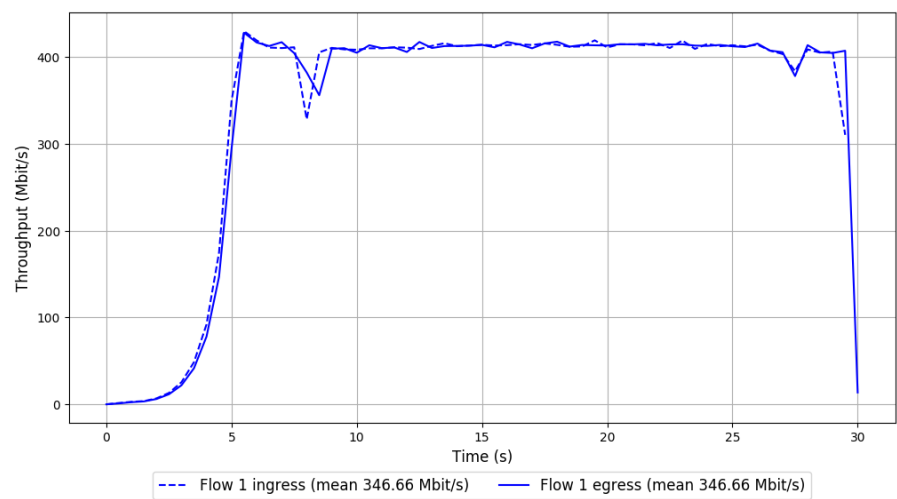
-- Flow 1:

Average throughput: 346.66 Mbit/s

95th percentile per-packet one-way delay: 135.741 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-04-03 20:59:41
End at: 2018-04-03 21:00:11

# Below is generated by plot.py at 2018-04-04 00:05:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 332.55 Mbit/s
95th percentile per-packet one-way delay: 138.228 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 332.55 Mbit/s
95th percentile per-packet one-way delay: 138.228 ms
Loss rate: 0.02%
```

Run 10: Report of Vivace-LTE — Data Link

