

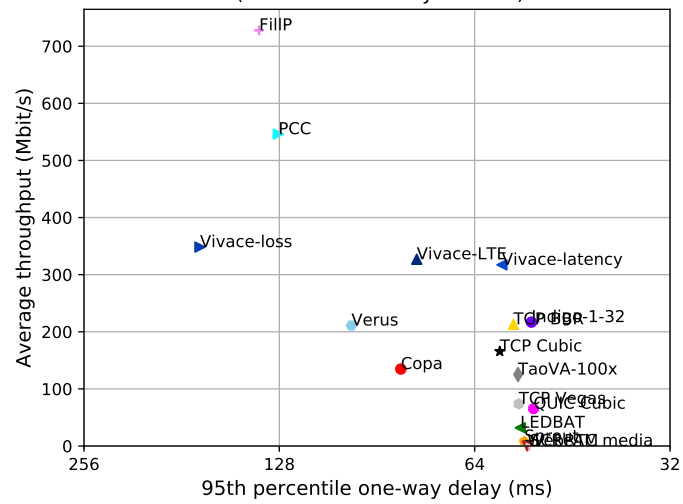
Pantheon Report

Generated at 2018-04-10 19:28:13 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo 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**).

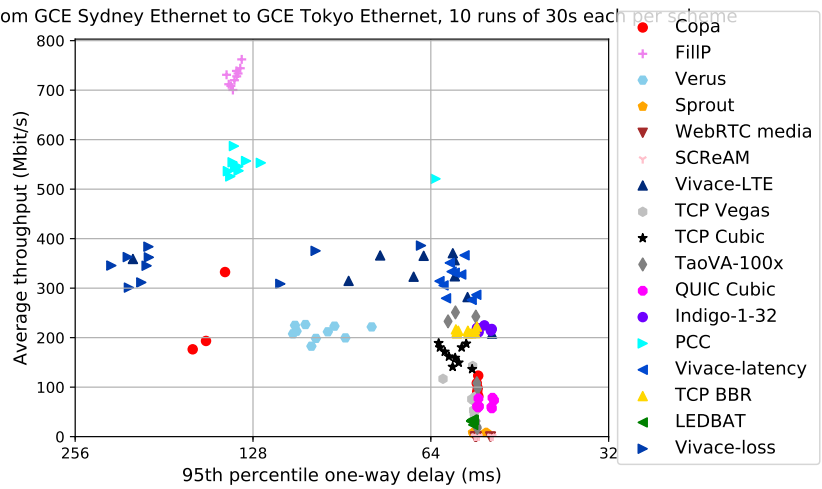
Git summary:

```
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 Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE Tokyo 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	213.03	55.77	0.00
TCP Cubic	10	165.66	58.55	0.00
LEDBAT	10	31.94	54.46	0.00
PCC	10	546.04	128.41	0.72
QUIC Cubic	9	65.31	51.94	0.00
SCReAM	10	0.21	52.66	0.00
WebRTC media	10	0.06	53.09	0.00
Sprout	10	7.81	53.66	0.00
TaoVA-100x	8	125.14	54.87	0.00
TCP Vegas	10	73.83	54.73	0.00
Verus	10	210.97	99.13	0.08
Copa	10	134.76	83.17	6.64
FillP	10	727.87	137.50	3.80
Indigo-1-32	10	216.89	52.33	0.00
Vivace-latency	10	317.17	58.11	0.00
Vivace-loss	10	348.24	169.63	1.07
Vivace-LTE	10	326.94	78.60	0.04

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 14:05:28

End at: 2018-04-10 14:05:58

Below is generated by plot.py at 2018-04-10 18:04:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.17 Mbit/s

95th percentile per-packet one-way delay: 57.876 ms

Loss rate: 0.00%

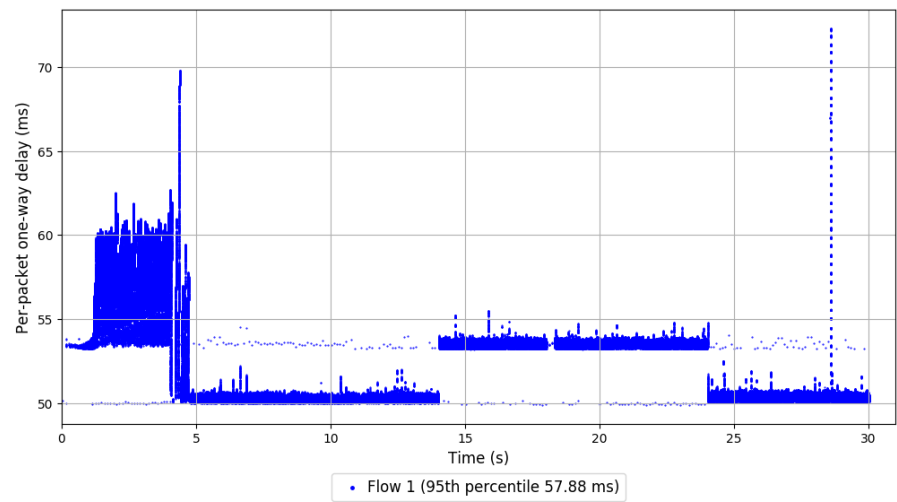
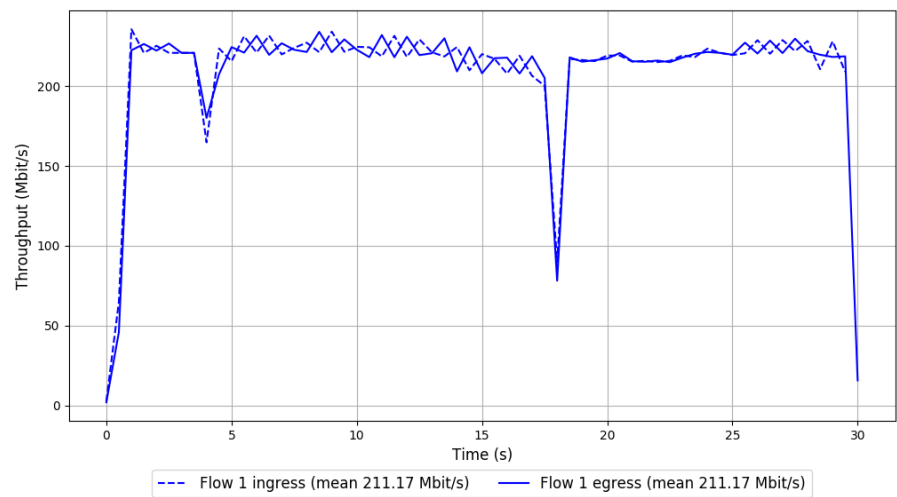
-- Flow 1:

Average throughput: 211.17 Mbit/s

95th percentile per-packet one-way delay: 57.876 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 14:19:55

End at: 2018-04-10 14:20:25

Below is generated by plot.py at 2018-04-10 18:04:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.07 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.00%

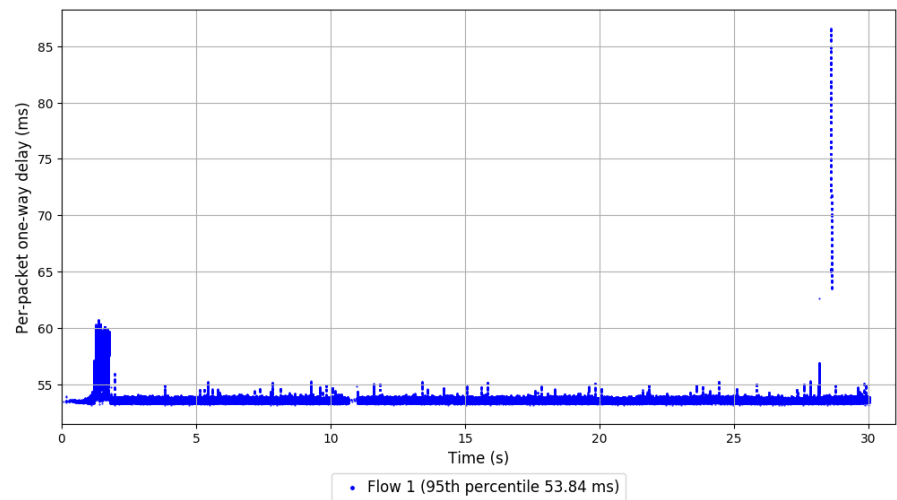
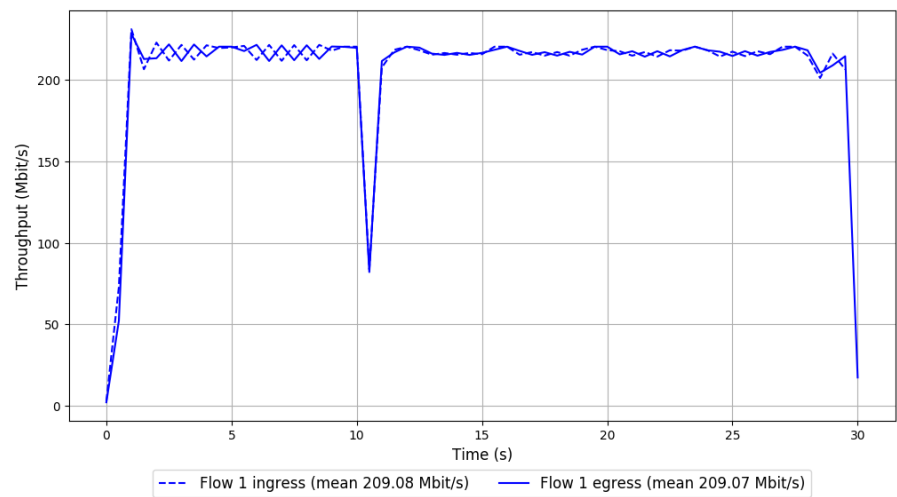
-- Flow 1:

Average throughput: 209.07 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 14:34:08

End at: 2018-04-10 14:34:38

Below is generated by plot.py at 2018-04-10 18:04:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.01 Mbit/s

95th percentile per-packet one-way delay: 57.498 ms

Loss rate: 0.00%

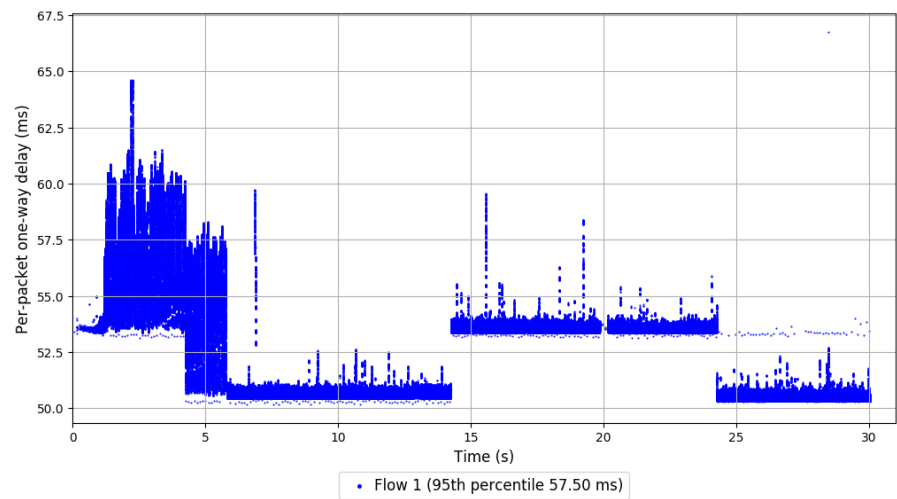
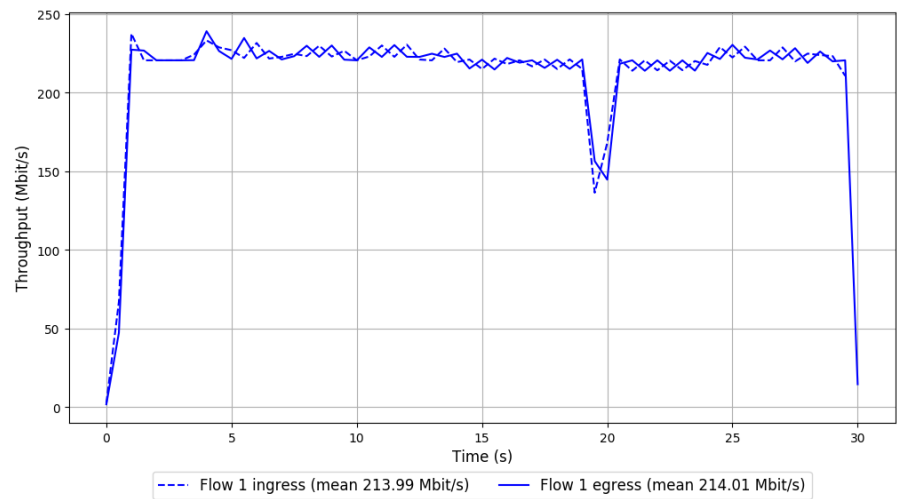
-- Flow 1:

Average throughput: 214.01 Mbit/s

95th percentile per-packet one-way delay: 57.498 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 14:48:20

End at: 2018-04-10 14:48:50

Below is generated by plot.py at 2018-04-10 18:04:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.77 Mbit/s

95th percentile per-packet one-way delay: 58.043 ms

Loss rate: 0.00%

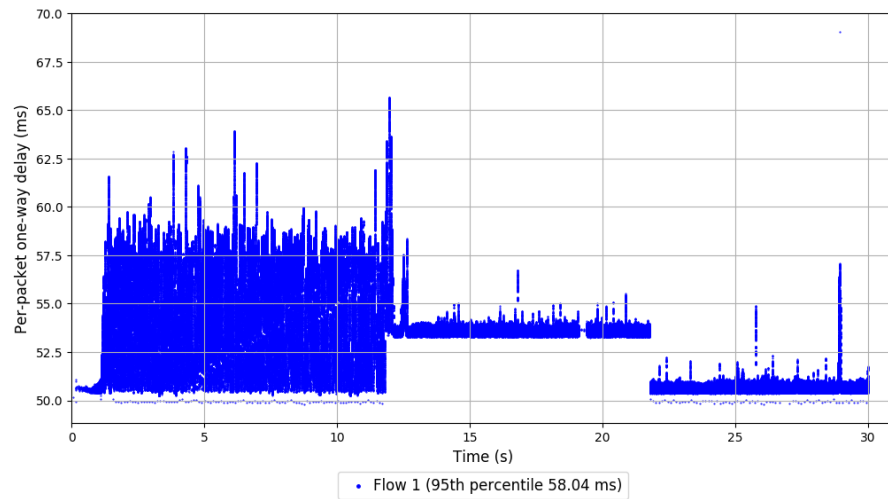
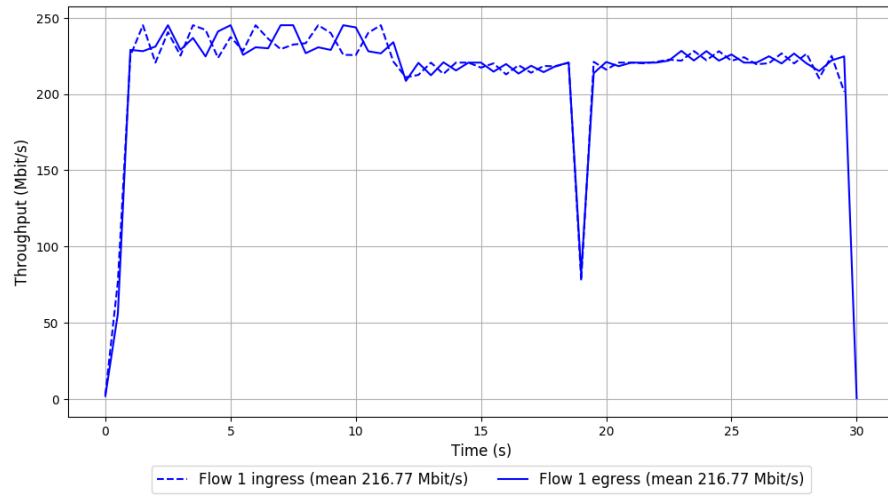
-- Flow 1:

Average throughput: 216.77 Mbit/s

95th percentile per-packet one-way delay: 58.043 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-10 15:02:35

End at: 2018-04-10 15:03:05

Below is generated by plot.py at 2018-04-10 18:04:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.77 Mbit/s

95th percentile per-packet one-way delay: 54.671 ms

Loss rate: 0.00%

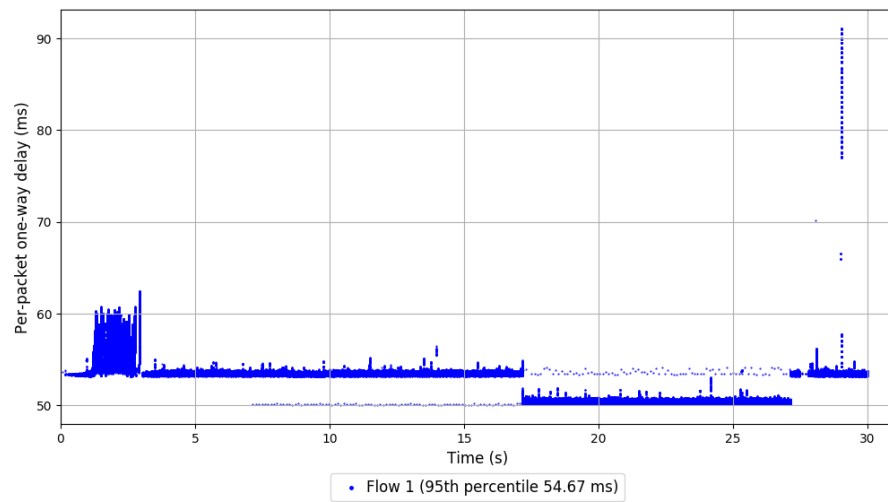
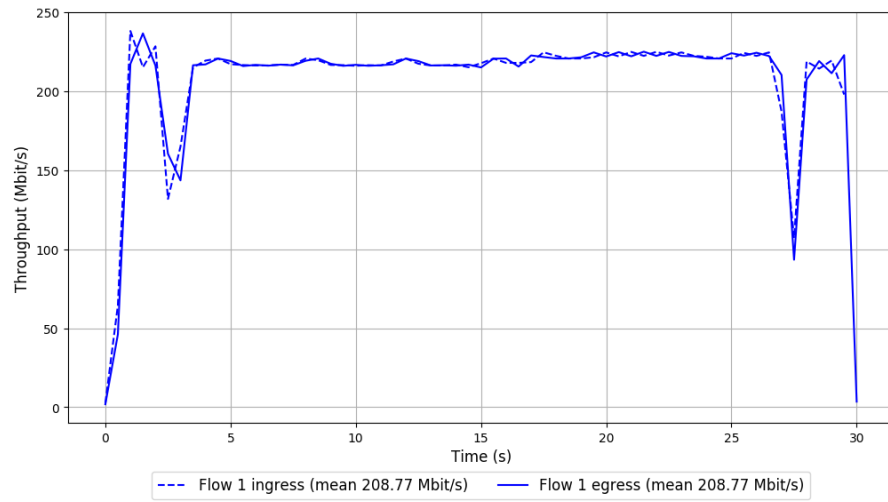
-- Flow 1:

Average throughput: 208.77 Mbit/s

95th percentile per-packet one-way delay: 54.671 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-10 15:17:26

End at: 2018-04-10 15:17:56

Below is generated by plot.py at 2018-04-10 18:04:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 55.400 ms

Loss rate: 0.00%

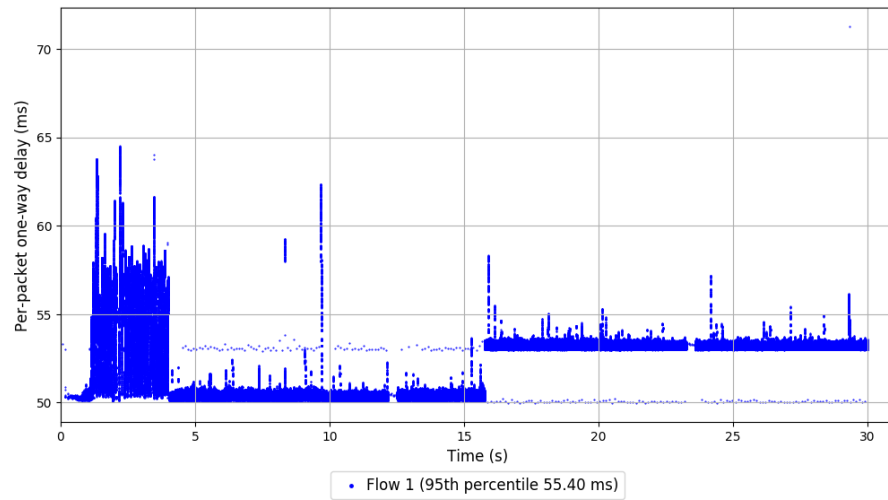
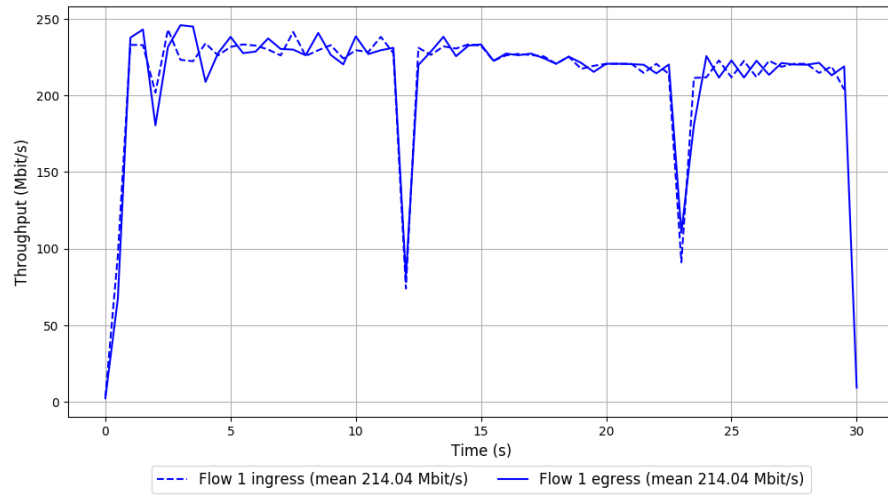
-- Flow 1:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 55.400 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-10 15:32:04

End at: 2018-04-10 15:32:34

Below is generated by plot.py at 2018-04-10 18:04:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.73 Mbit/s

95th percentile per-packet one-way delay: 55.326 ms

Loss rate: 0.00%

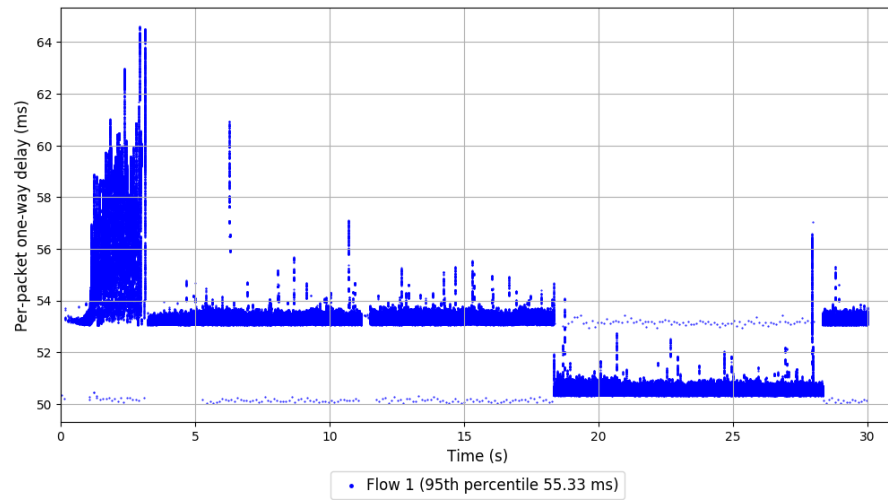
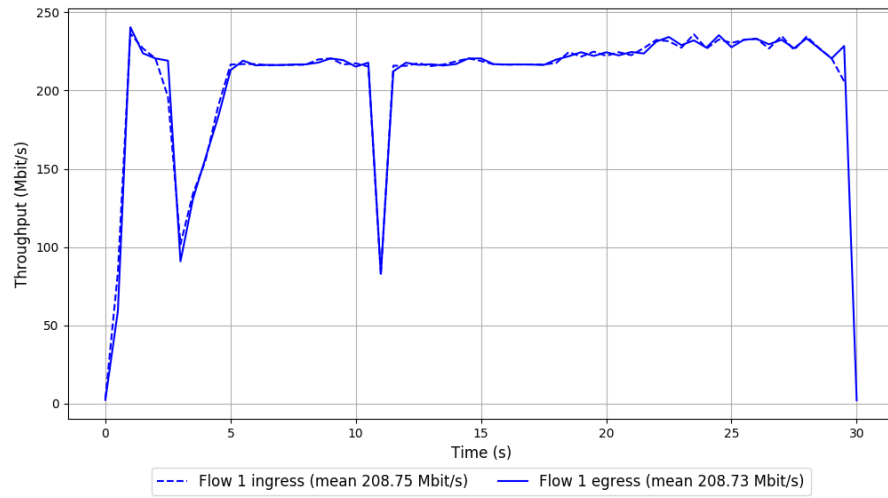
-- Flow 1:

Average throughput: 208.73 Mbit/s

95th percentile per-packet one-way delay: 55.326 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-10 15:46:07

End at: 2018-04-10 15:46:37

Below is generated by plot.py at 2018-04-10 18:04:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.54 Mbit/s

95th percentile per-packet one-way delay: 57.800 ms

Loss rate: 0.00%

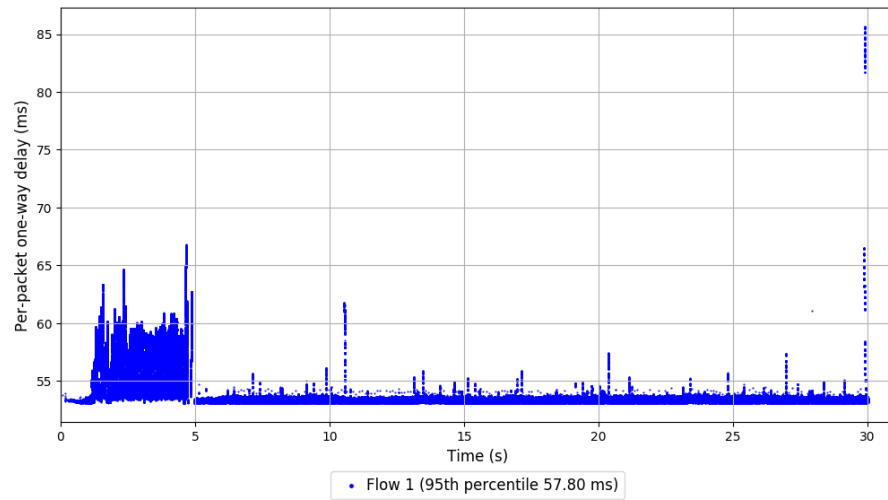
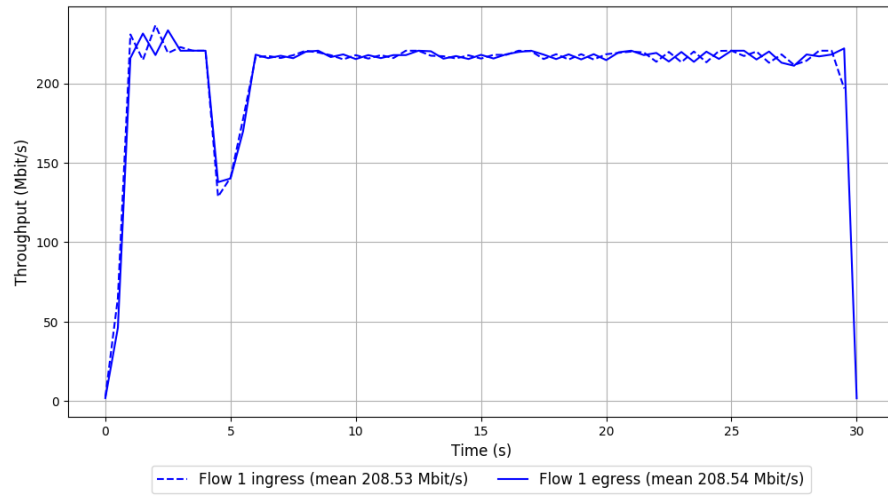
-- Flow 1:

Average throughput: 208.54 Mbit/s

95th percentile per-packet one-way delay: 57.800 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-10 16:00:35

End at: 2018-04-10 16:01:05

Below is generated by plot.py at 2018-04-10 18:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.36 Mbit/s

95th percentile per-packet one-way delay: 53.468 ms

Loss rate: 0.00%

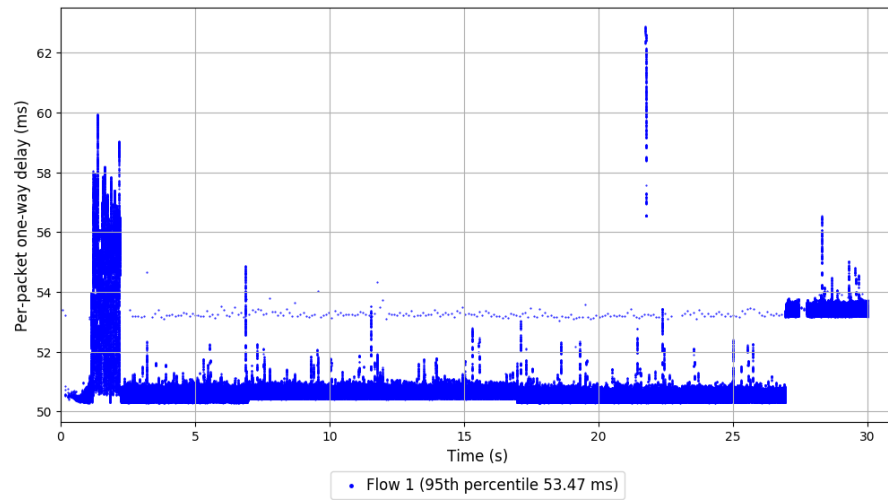
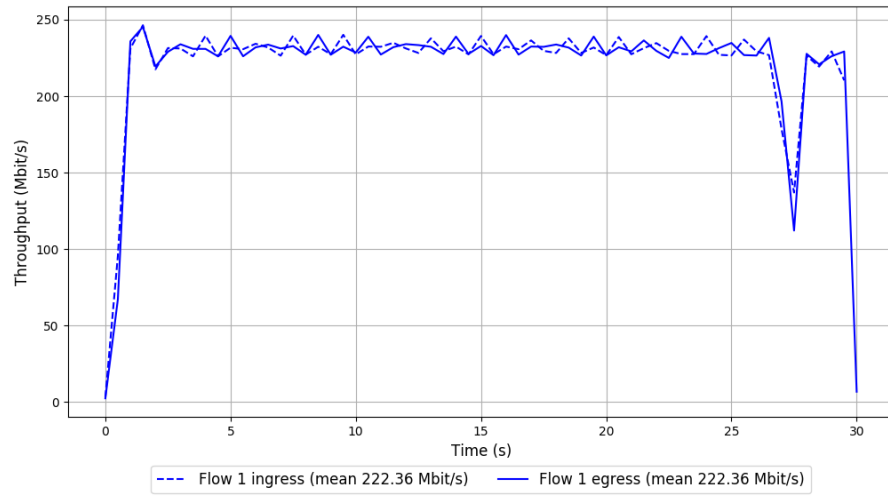
-- Flow 1:

Average throughput: 222.36 Mbit/s

95th percentile per-packet one-way delay: 53.468 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-10 16:14:50

End at: 2018-04-10 16:15:20

Below is generated by plot.py at 2018-04-10 18:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.85 Mbit/s

95th percentile per-packet one-way delay: 53.829 ms

Loss rate: 0.00%

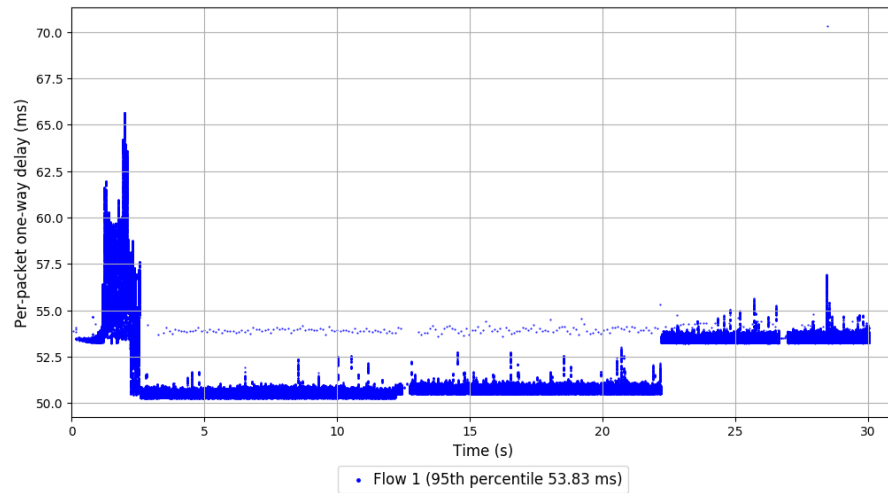
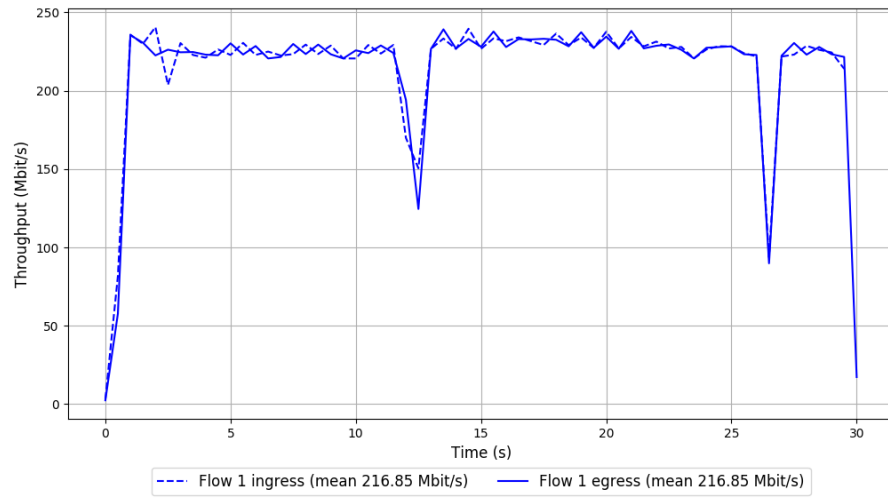
-- Flow 1:

Average throughput: 216.85 Mbit/s

95th percentile per-packet one-way delay: 53.829 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 14:13:08

End at: 2018-04-10 14:13:38

Below is generated by plot.py at 2018-04-10 18:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.48 Mbit/s

95th percentile per-packet one-way delay: 57.411 ms

Loss rate: 0.00%

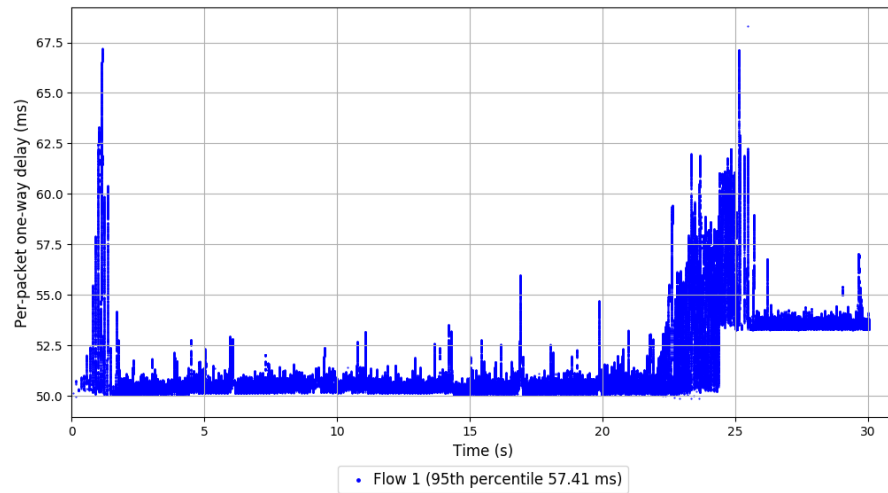
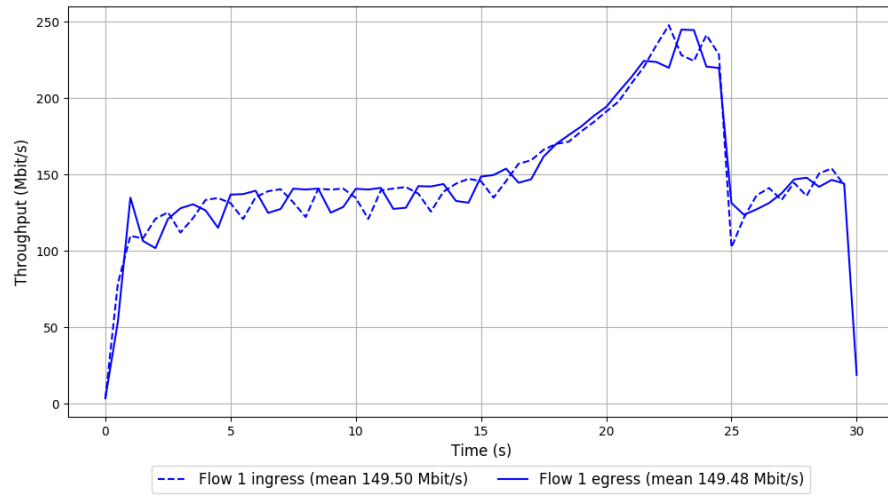
-- Flow 1:

Average throughput: 149.48 Mbit/s

95th percentile per-packet one-way delay: 57.411 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 14:27:26

End at: 2018-04-10 14:27:56

Below is generated by plot.py at 2018-04-10 18:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.44 Mbit/s

95th percentile per-packet one-way delay: 54.485 ms

Loss rate: 0.00%

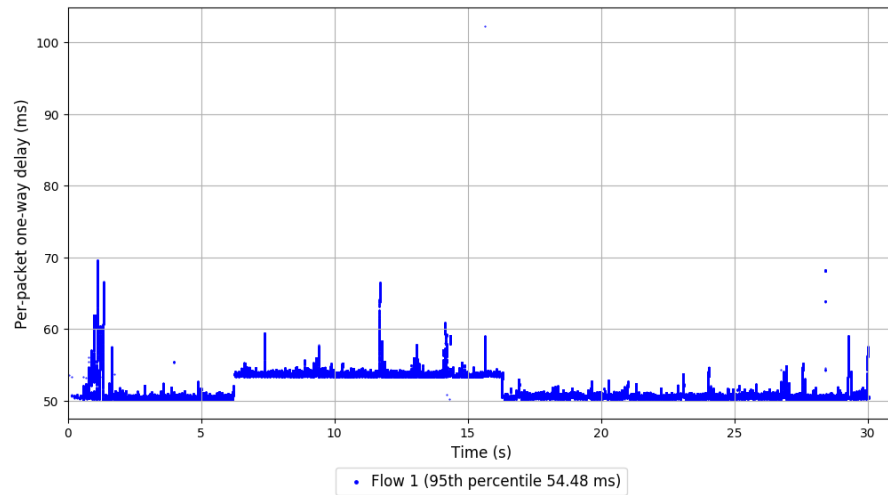
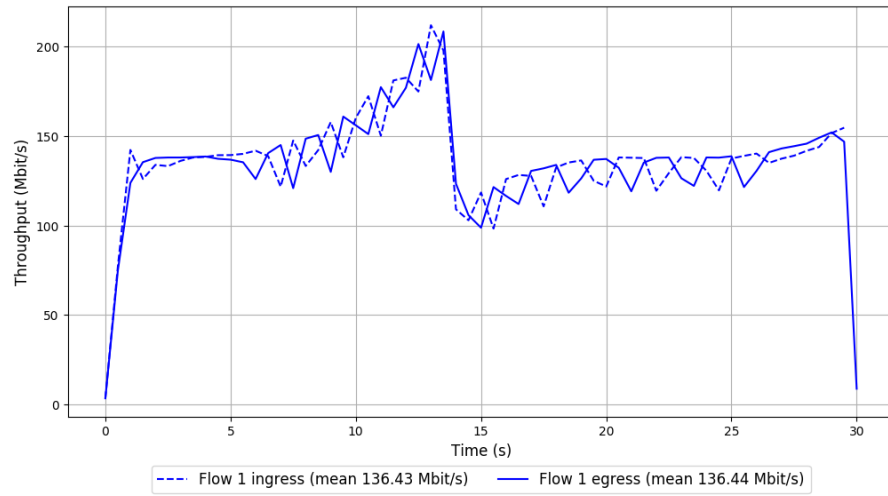
-- Flow 1:

Average throughput: 136.44 Mbit/s

95th percentile per-packet one-way delay: 54.485 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 14:41:41

End at: 2018-04-10 14:42:11

Below is generated by plot.py at 2018-04-10 18:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.85 Mbit/s

95th percentile per-packet one-way delay: 55.745 ms

Loss rate: 0.00%

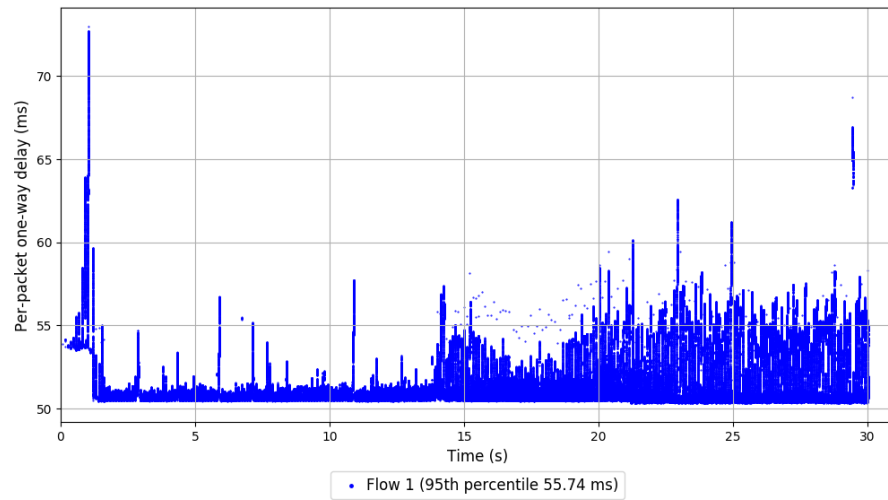
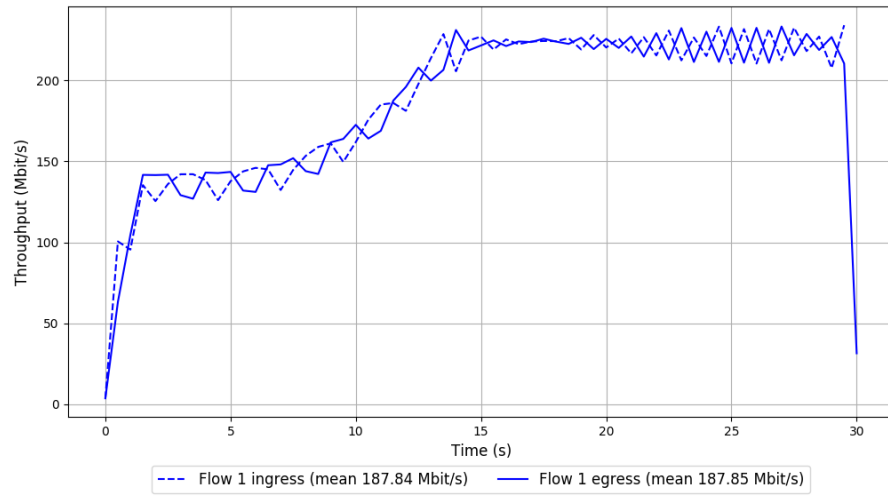
-- Flow 1:

Average throughput: 187.85 Mbit/s

95th percentile per-packet one-way delay: 55.745 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 14:55:54

End at: 2018-04-10 14:56:24

Below is generated by plot.py at 2018-04-10 18:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.19 Mbit/s

95th percentile per-packet one-way delay: 56.754 ms

Loss rate: 0.00%

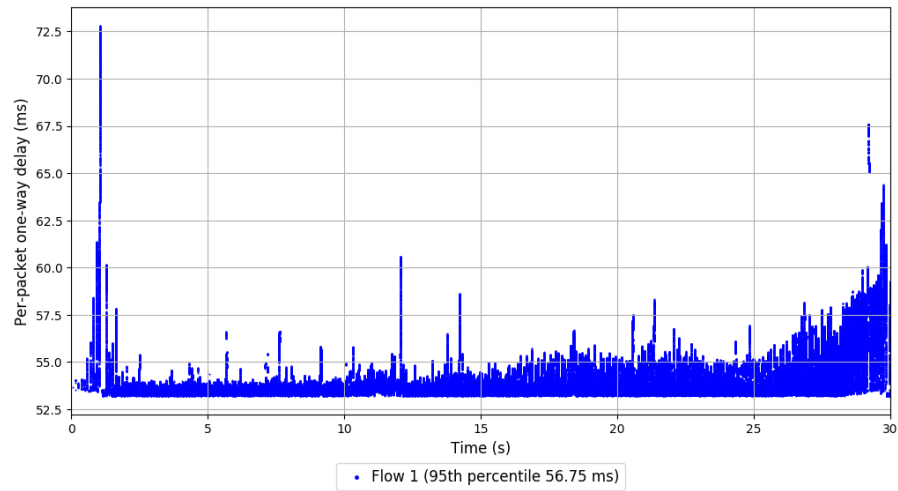
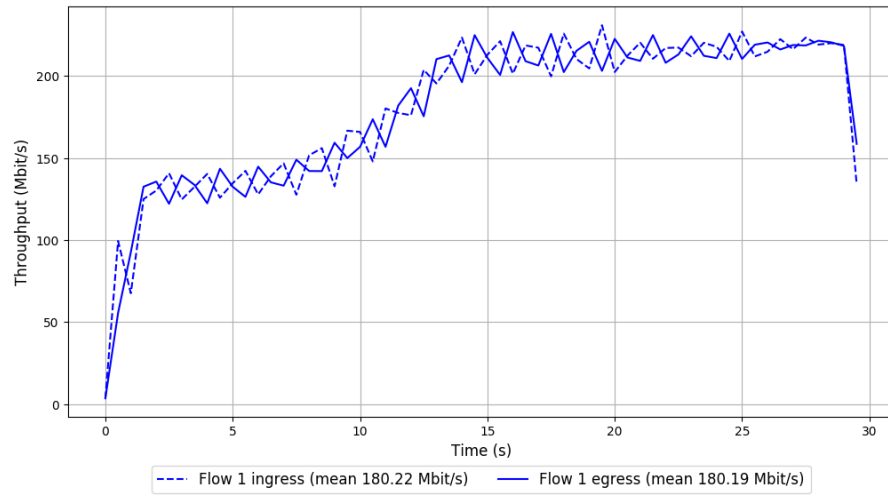
-- Flow 1:

Average throughput: 180.19 Mbit/s

95th percentile per-packet one-way delay: 56.754 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 15:10:31

End at: 2018-04-10 15:11:01

Below is generated by plot.py at 2018-04-10 18:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.13 Mbit/s

95th percentile per-packet one-way delay: 61.760 ms

Loss rate: 0.00%

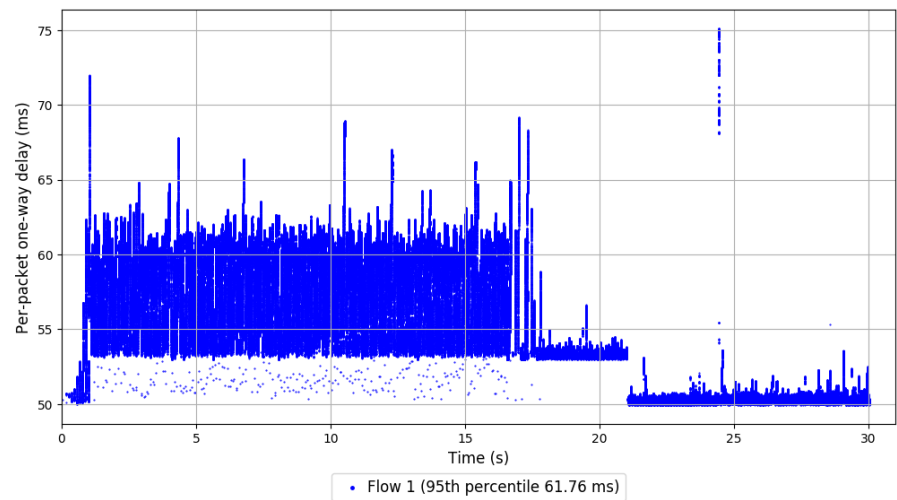
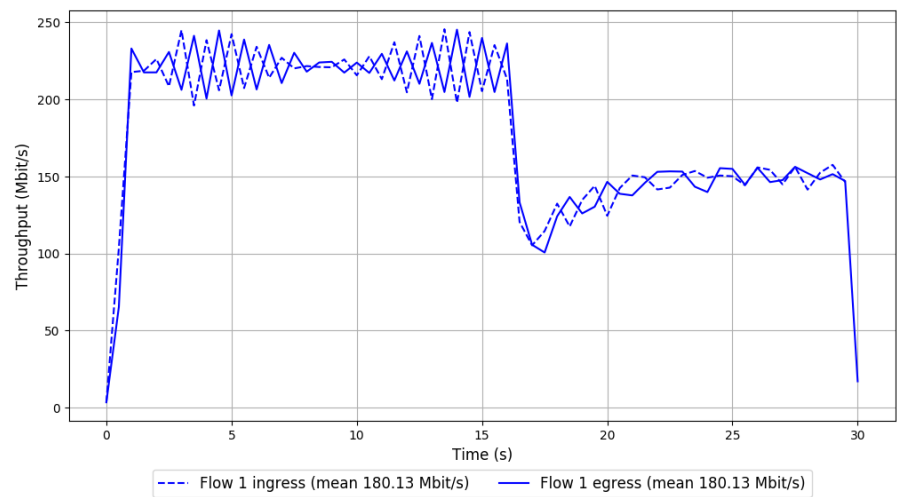
-- Flow 1:

Average throughput: 180.13 Mbit/s

95th percentile per-packet one-way delay: 61.760 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 15:25:03

End at: 2018-04-10 15:25:33

Below is generated by plot.py at 2018-04-10 18:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.08 Mbit/s

95th percentile per-packet one-way delay: 62.081 ms

Loss rate: 0.00%

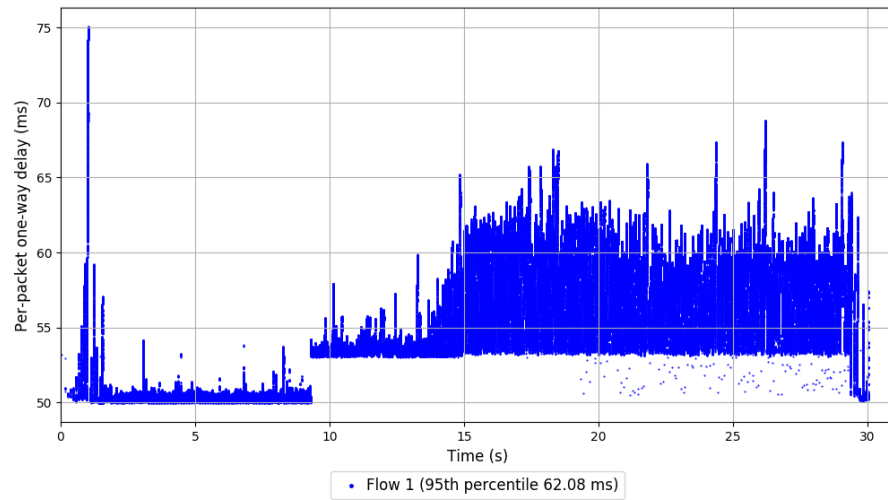
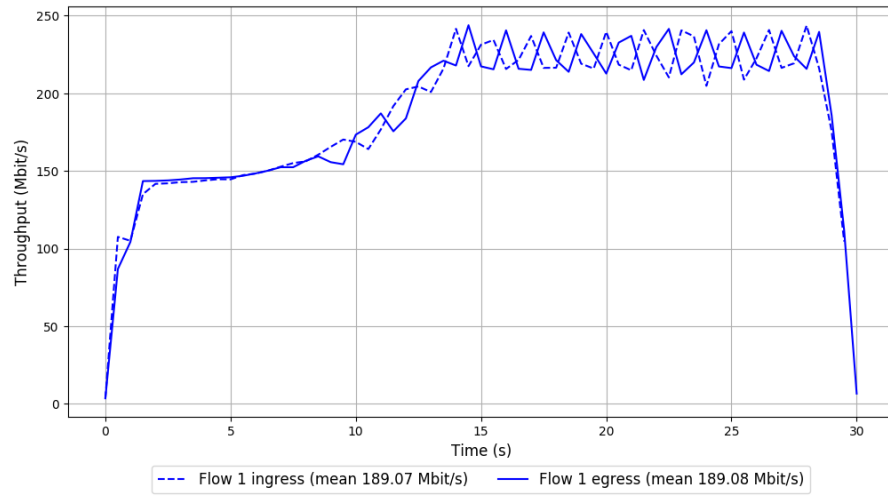
-- Flow 1:

Average throughput: 189.08 Mbit/s

95th percentile per-packet one-way delay: 62.081 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 15:39:34

End at: 2018-04-10 15:40:04

Below is generated by plot.py at 2018-04-10 18:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.12 Mbit/s

95th percentile per-packet one-way delay: 58.197 ms

Loss rate: 0.00%

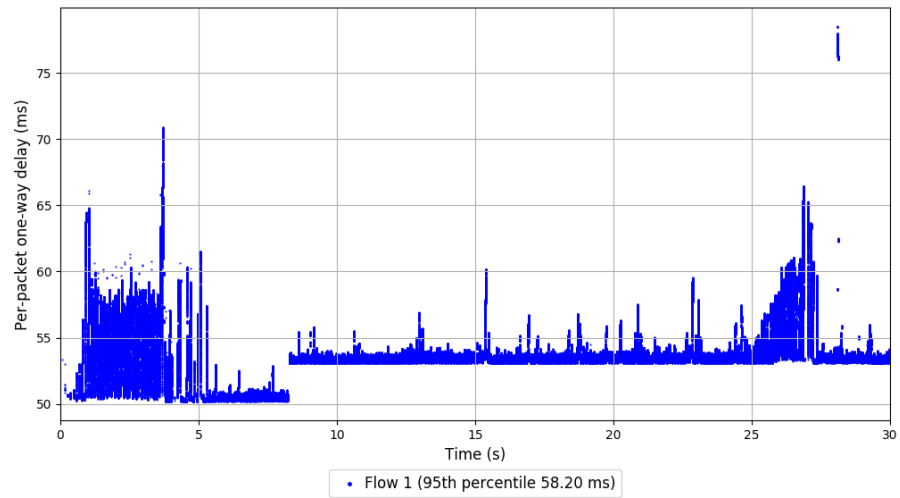
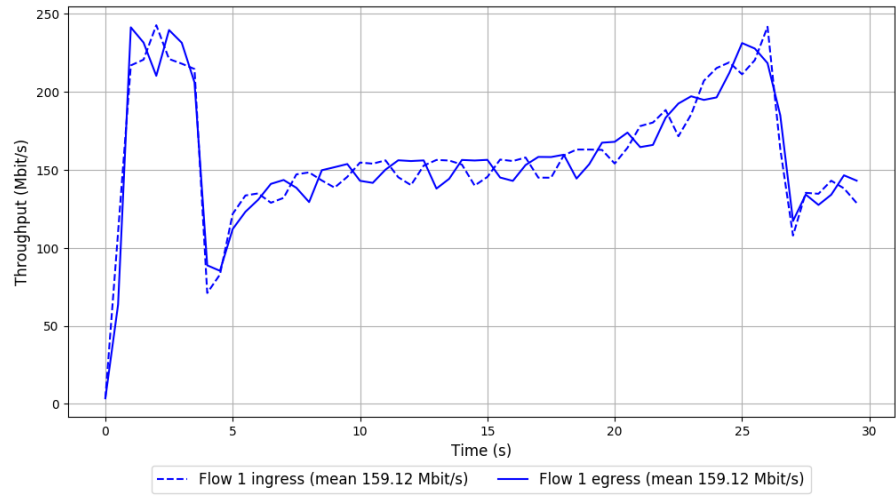
-- Flow 1:

Average throughput: 159.12 Mbit/s

95th percentile per-packet one-way delay: 58.197 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-10 15:53:38

End at: 2018-04-10 15:54:08

Below is generated by plot.py at 2018-04-10 18:10:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.74 Mbit/s

95th percentile per-packet one-way delay: 59.628 ms

Loss rate: 0.00%

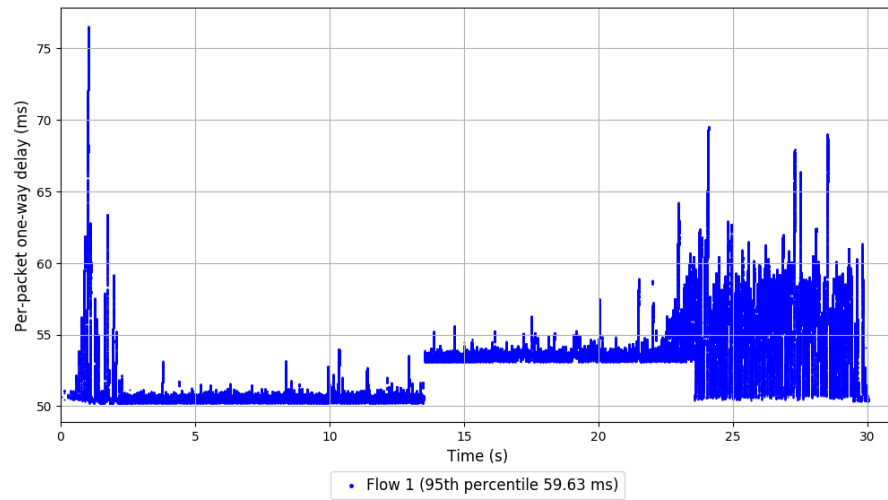
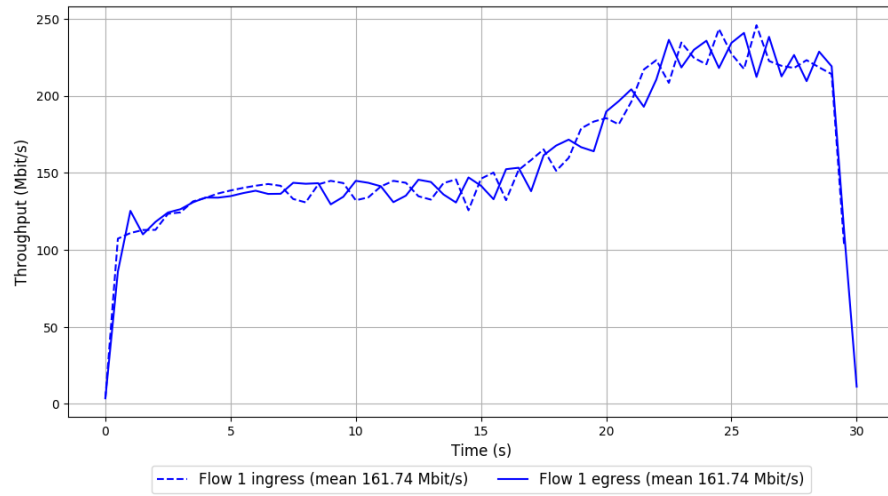
-- Flow 1:

Average throughput: 161.74 Mbit/s

95th percentile per-packet one-way delay: 59.628 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-10 16:08:09

End at: 2018-04-10 16:08:39

Below is generated by plot.py at 2018-04-10 18:10:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.07 Mbit/s

95th percentile per-packet one-way delay: 58.784 ms

Loss rate: 0.00%

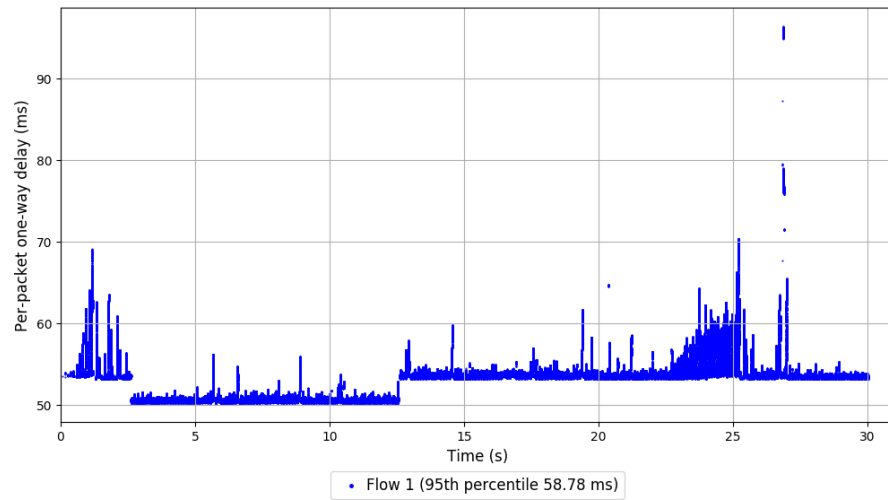
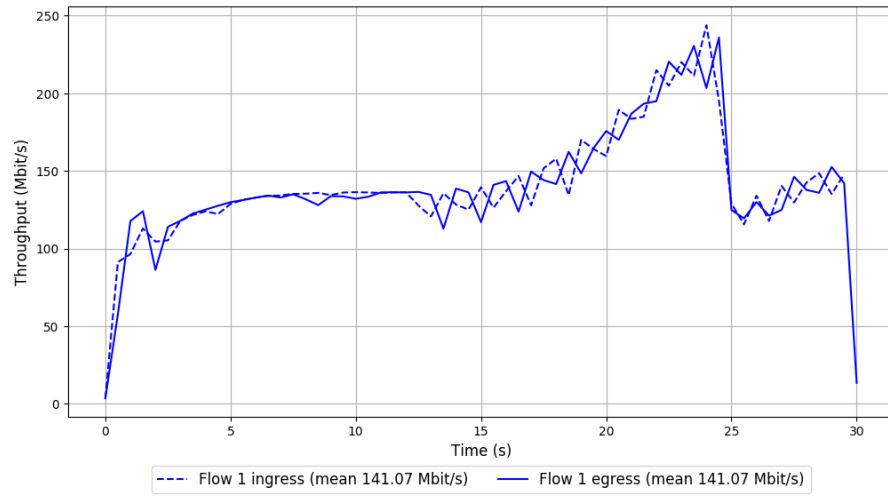
-- Flow 1:

Average throughput: 141.07 Mbit/s

95th percentile per-packet one-way delay: 58.784 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-10 16:22:26

End at: 2018-04-10 16:22:56

Below is generated by plot.py at 2018-04-10 18:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.49 Mbit/s

95th percentile per-packet one-way delay: 60.613 ms

Loss rate: 0.00%

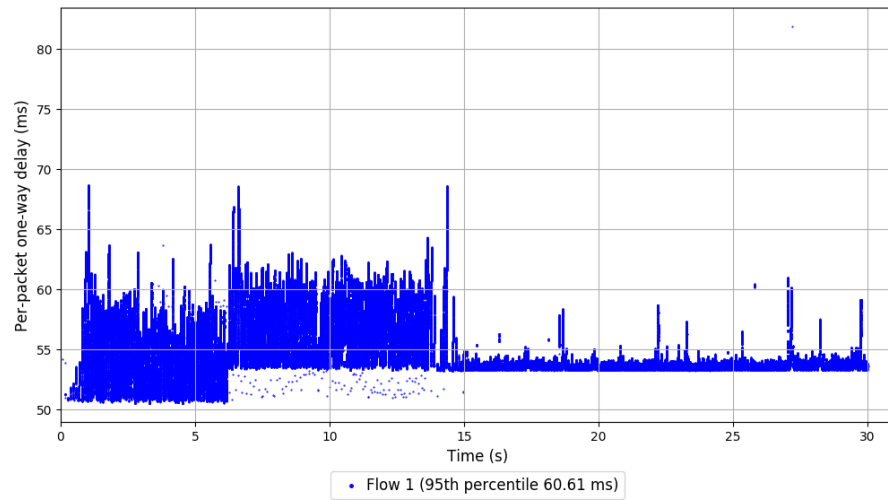
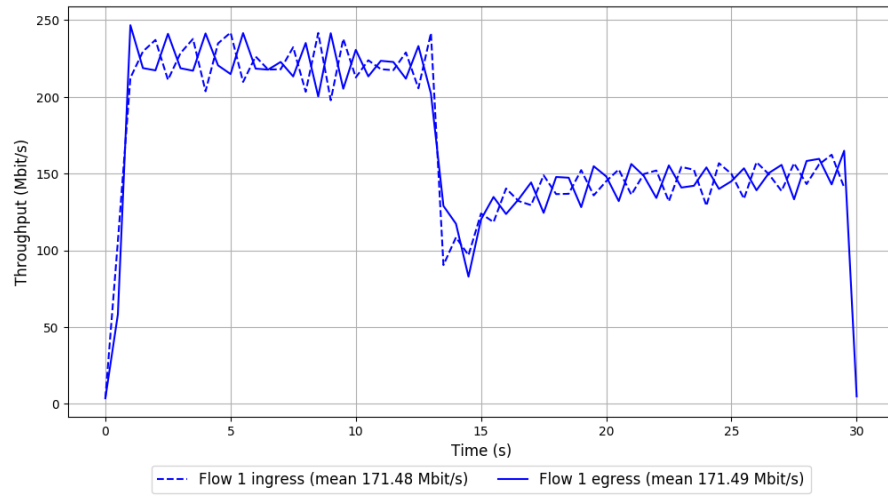
-- Flow 1:

Average throughput: 171.49 Mbit/s

95th percentile per-packet one-way delay: 60.613 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

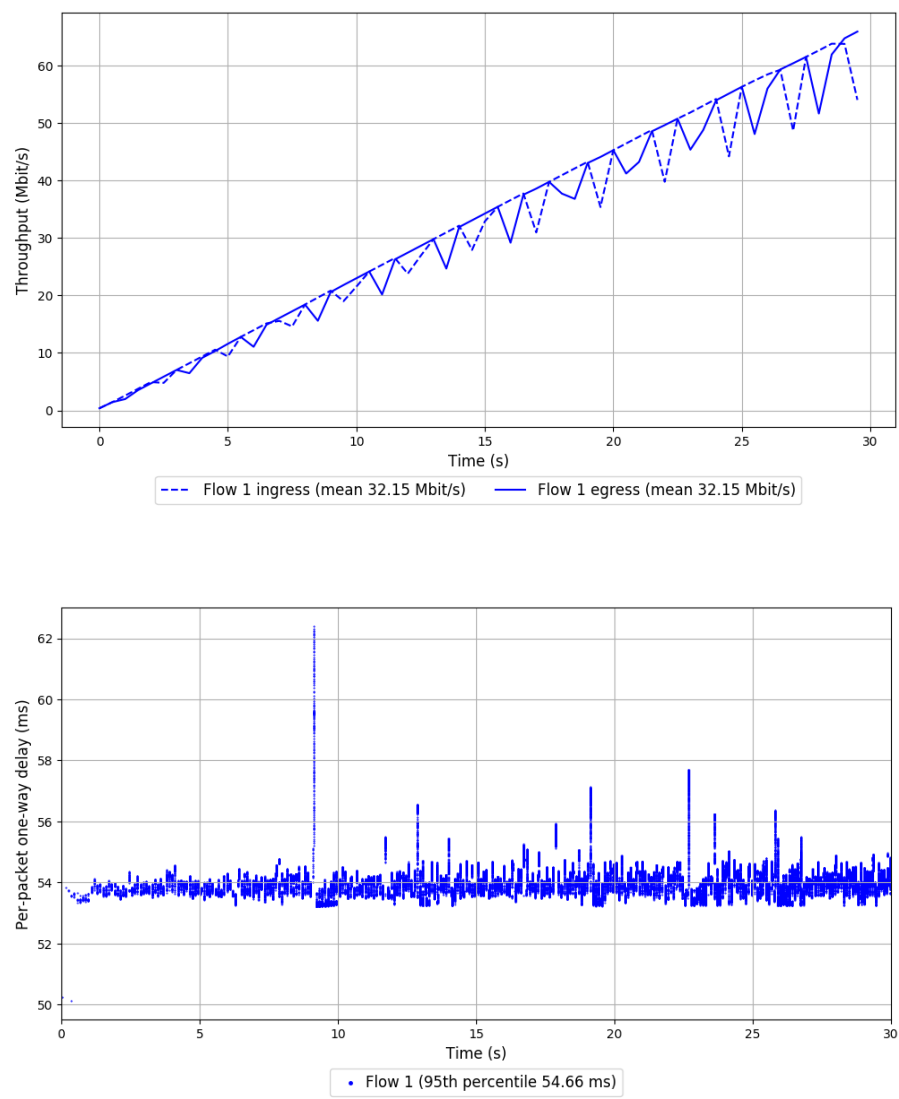


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 14:04:49
End at: 2018-04-10 14:05:19

# Below is generated by plot.py at 2018-04-10 18:11:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 54.660 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.15 Mbit/s
95th percentile per-packet one-way delay: 54.660 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

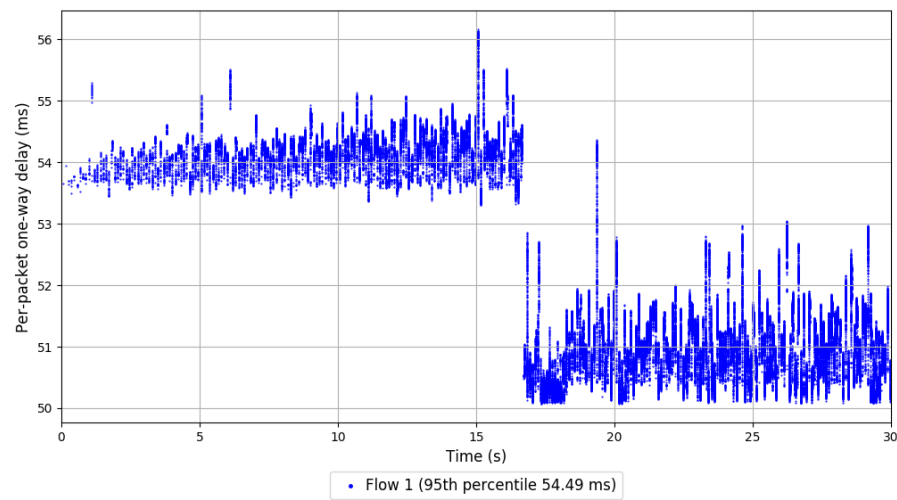
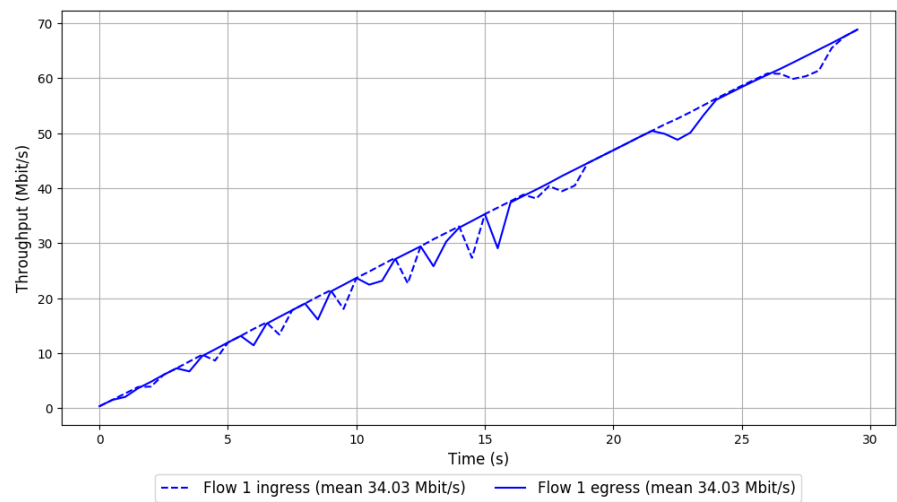


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-10 14:19:15
End at: 2018-04-10 14:19:45

# Below is generated by plot.py at 2018-04-10 18:11:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.03 Mbit/s
95th percentile per-packet one-way delay: 54.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 34.03 Mbit/s
95th percentile per-packet one-way delay: 54.491 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-10 14:33:28

End at: 2018-04-10 14:33:58

Below is generated by plot.py at 2018-04-10 18:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 54.420 ms

Loss rate: 0.00%

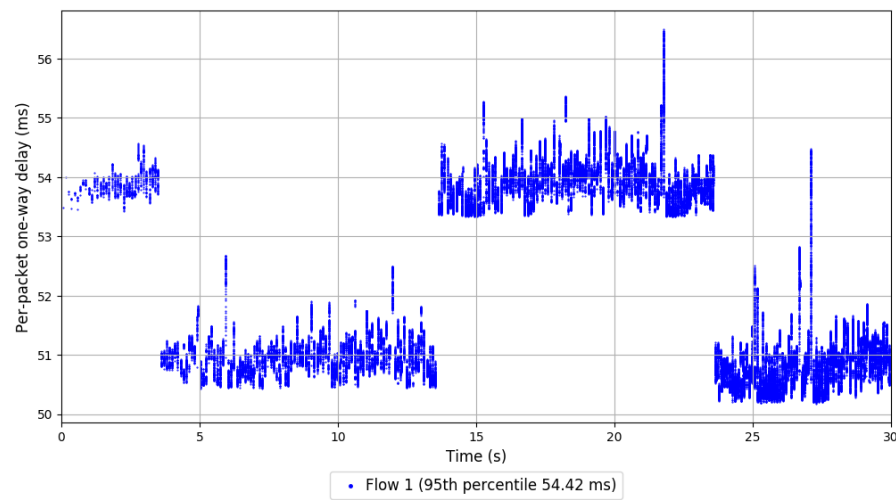
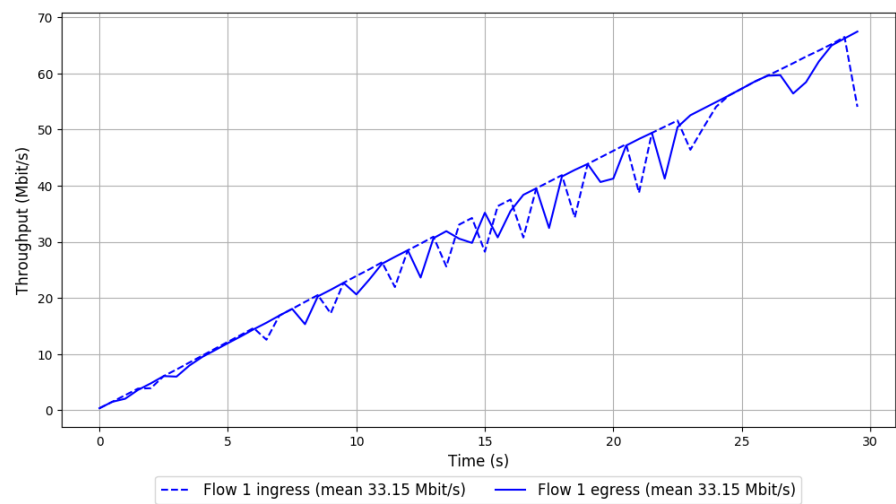
-- Flow 1:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 54.420 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-10 14:47:41

End at: 2018-04-10 14:48:11

Below is generated by plot.py at 2018-04-10 18:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.89 Mbit/s

95th percentile per-packet one-way delay: 54.684 ms

Loss rate: 0.00%

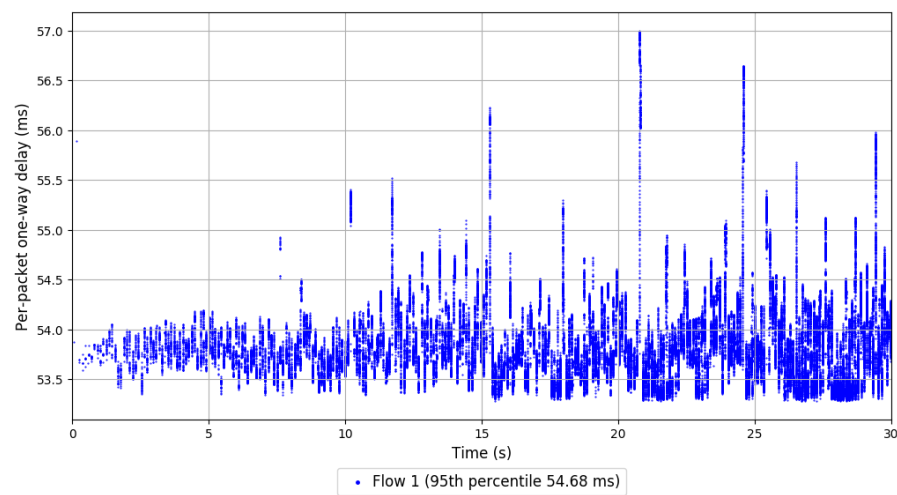
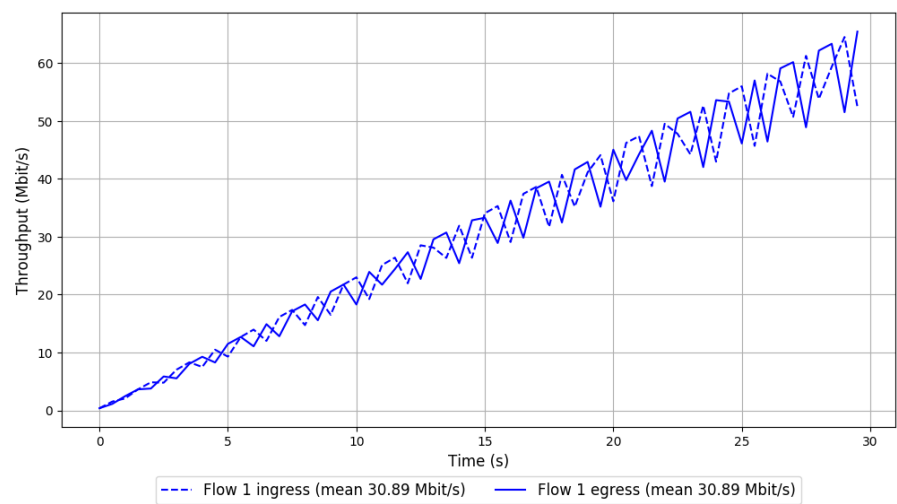
-- Flow 1:

Average throughput: 30.89 Mbit/s

95th percentile per-packet one-way delay: 54.684 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-10 15:01:55

End at: 2018-04-10 15:02:25

Below is generated by plot.py at 2018-04-10 18:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 54.564 ms

Loss rate: 0.00%

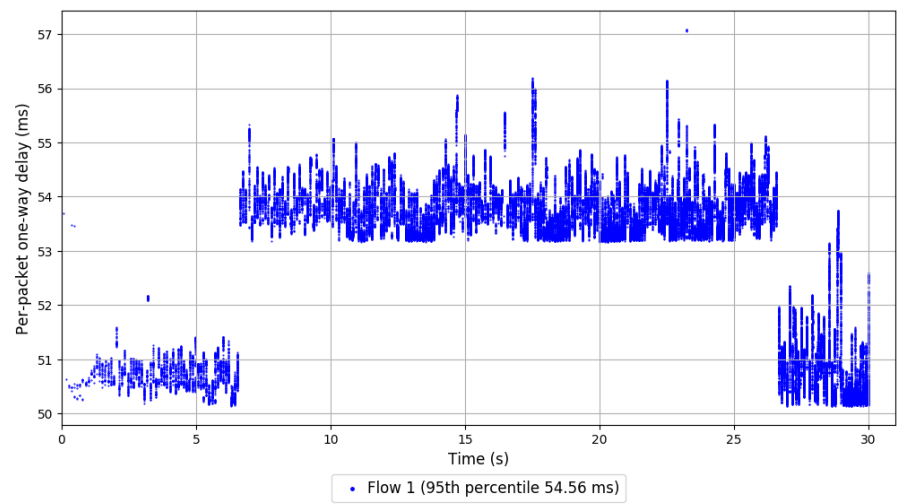
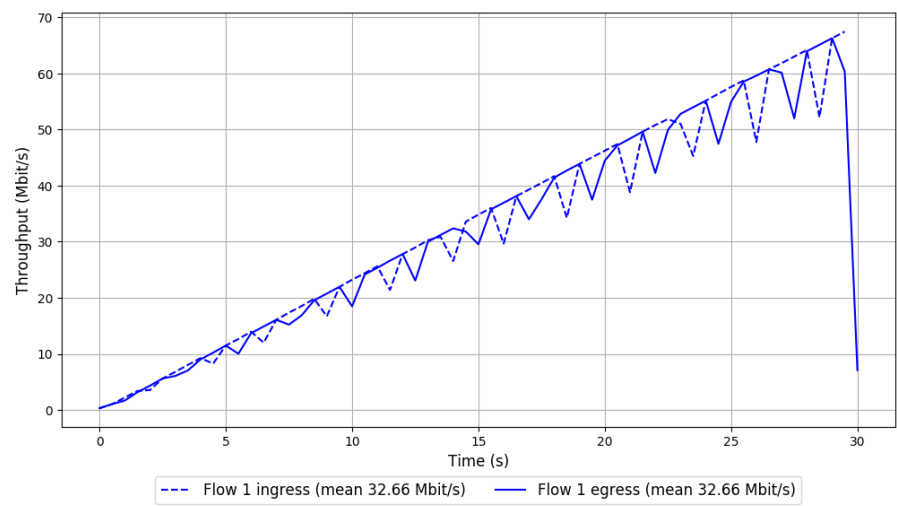
-- Flow 1:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 54.564 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-10 15:16:47

End at: 2018-04-10 15:17:17

Below is generated by plot.py at 2018-04-10 18:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 54.266 ms

Loss rate: 0.00%

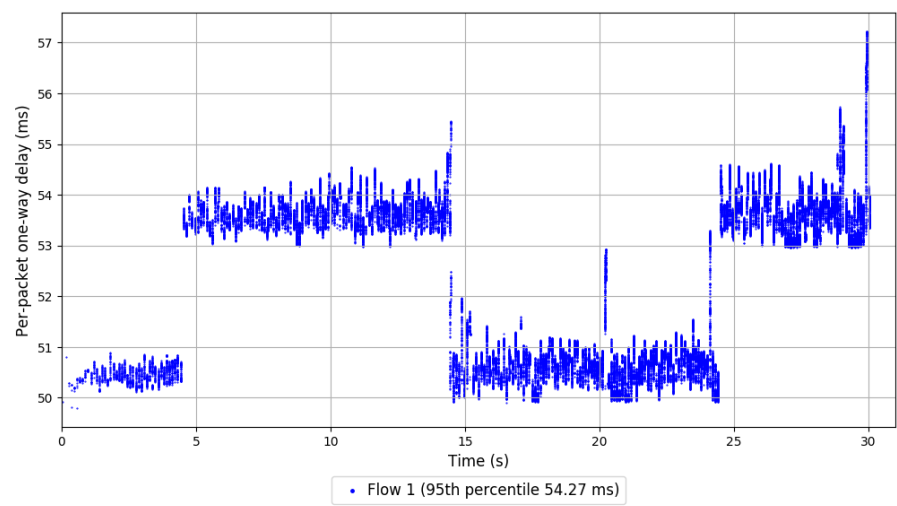
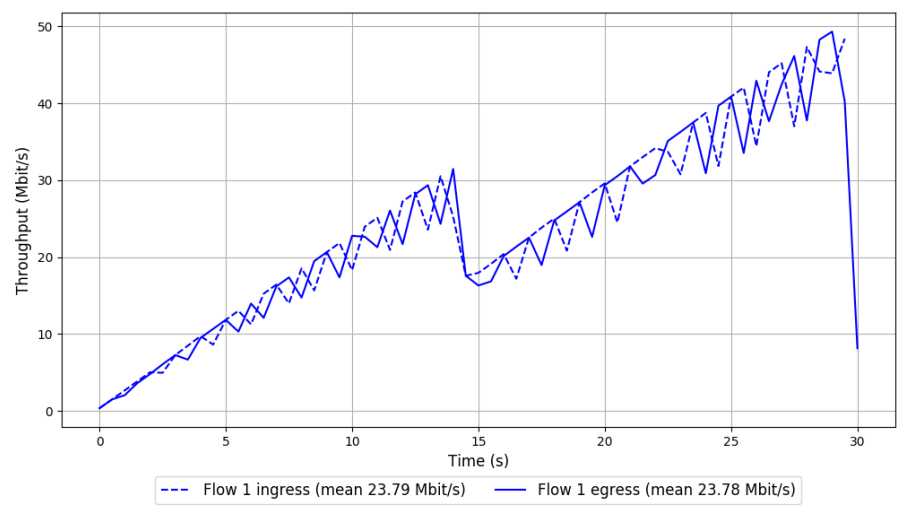
-- Flow 1:

Average throughput: 23.78 Mbit/s

95th percentile per-packet one-way delay: 54.266 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-10 15:31:24

End at: 2018-04-10 15:31:54

Below is generated by plot.py at 2018-04-10 18:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 54.314 ms

Loss rate: 0.00%

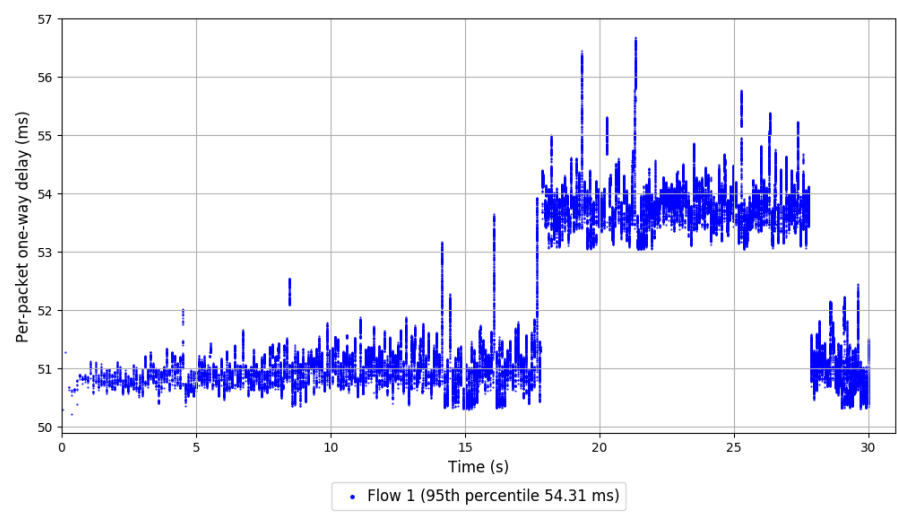
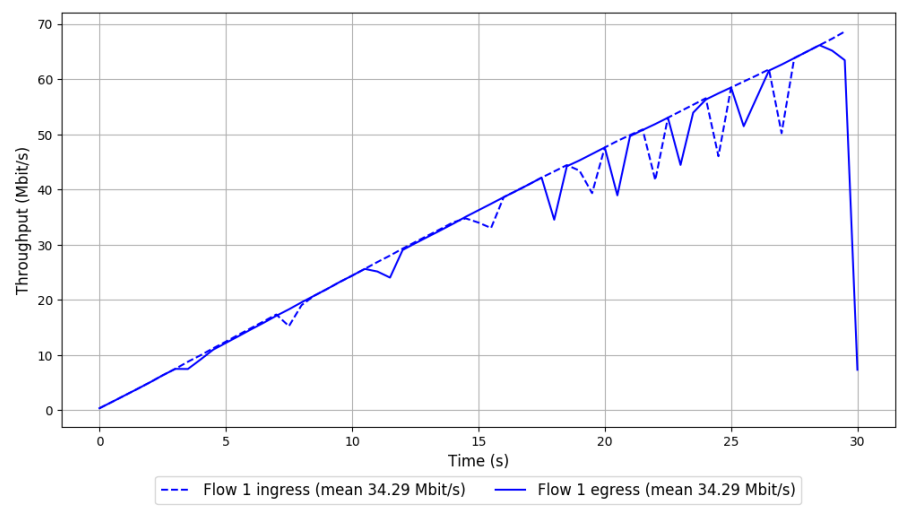
-- Flow 1:

Average throughput: 34.29 Mbit/s

95th percentile per-packet one-way delay: 54.314 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-10 15:45:28

End at: 2018-04-10 15:45:58

Below is generated by plot.py at 2018-04-10 18:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.91 Mbit/s

95th percentile per-packet one-way delay: 54.316 ms

Loss rate: 0.00%

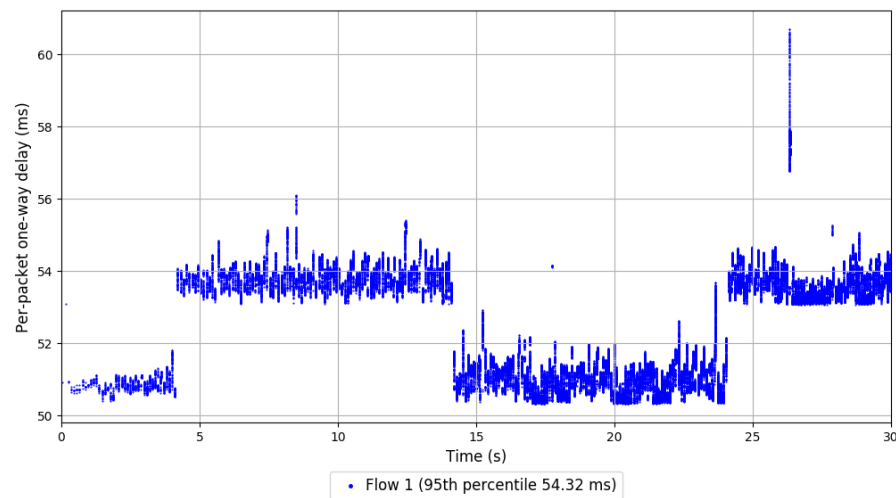
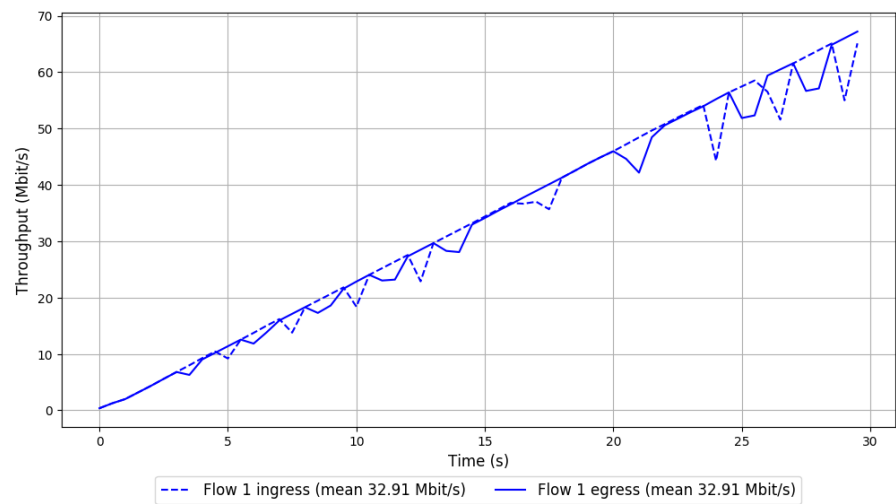
-- Flow 1:

Average throughput: 32.91 Mbit/s

95th percentile per-packet one-way delay: 54.316 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-10 15:59:56

End at: 2018-04-10 16:00:26

Below is generated by plot.py at 2018-04-10 18:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.64 Mbit/s

95th percentile per-packet one-way delay: 54.149 ms

Loss rate: 0.00%

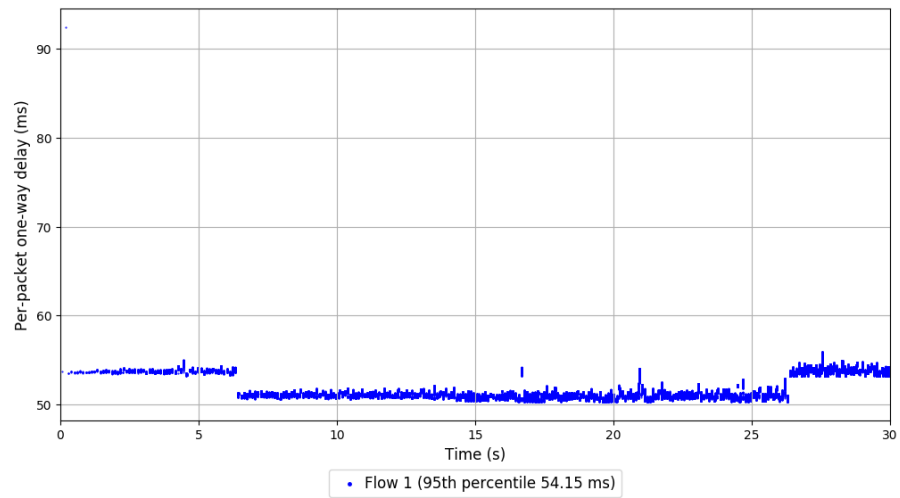
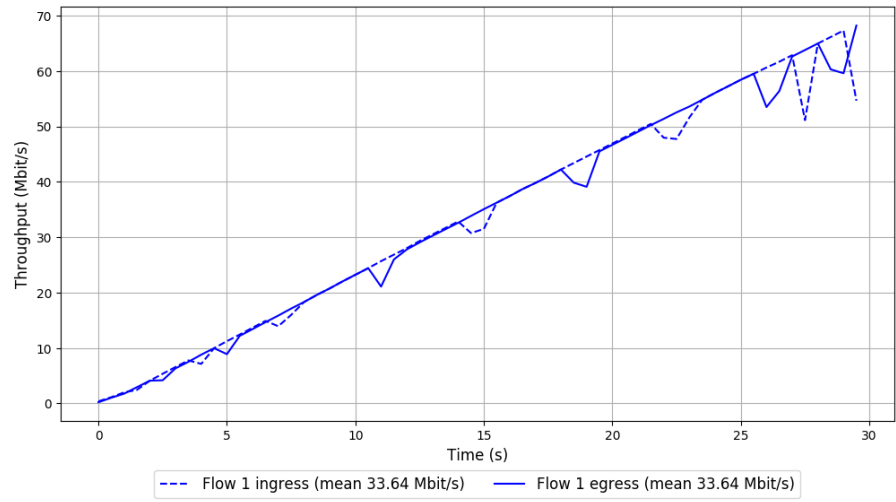
-- Flow 1:

Average throughput: 33.64 Mbit/s

95th percentile per-packet one-way delay: 54.149 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-10 16:14:11

End at: 2018-04-10 16:14:41

Below is generated by plot.py at 2018-04-10 18:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 54.697 ms

Loss rate: 0.00%

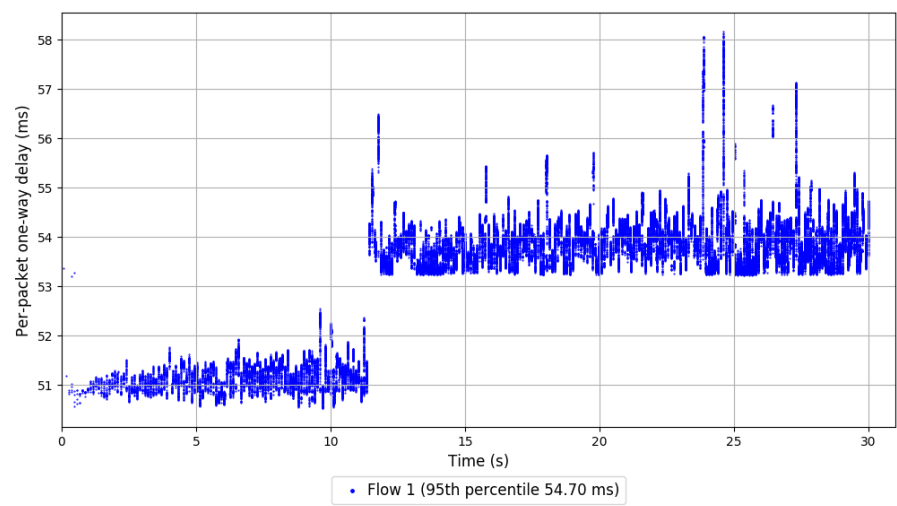
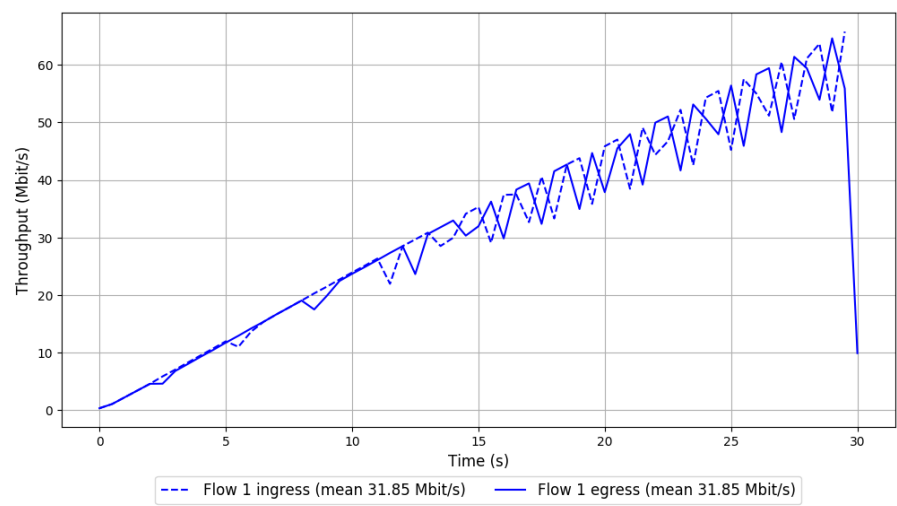
-- Flow 1:

Average throughput: 31.85 Mbit/s

95th percentile per-packet one-way delay: 54.697 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

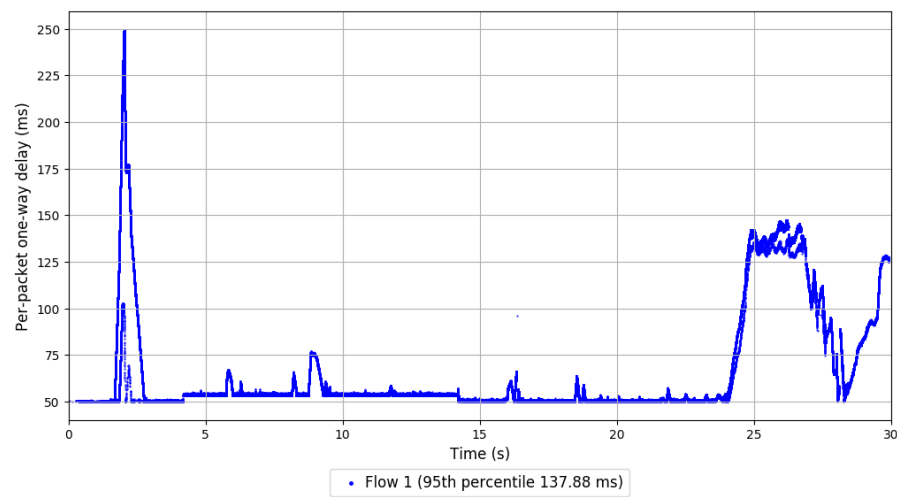
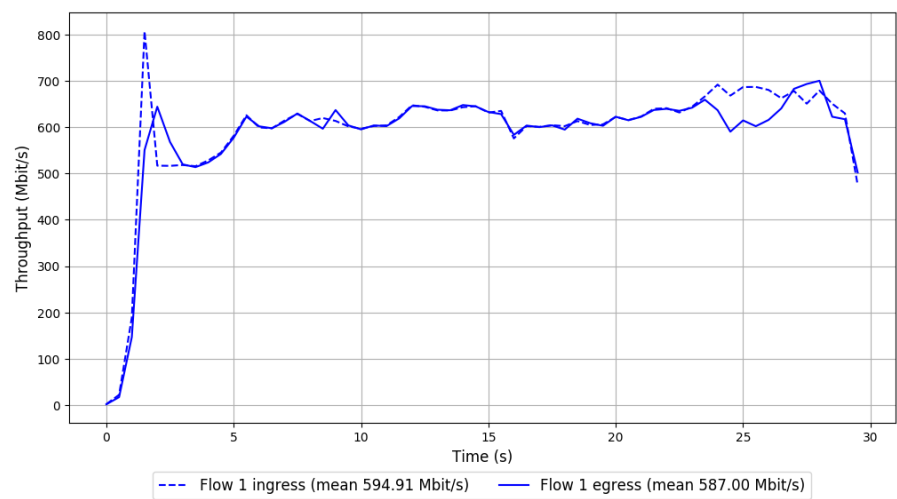


```
Run 1: Statistics of PCC

Start at: 2018-04-10 14:18:18
End at: 2018-04-10 14:18:48

# Below is generated by plot.py at 2018-04-10 18:20:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 587.00 Mbit/s
95th percentile per-packet one-way delay: 137.881 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 587.00 Mbit/s
95th percentile per-packet one-way delay: 137.881 ms
Loss rate: 1.32%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 14:32:30

End at: 2018-04-10 14:33:00

Below is generated by plot.py at 2018-04-10 18:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.39 Mbit/s

95th percentile per-packet one-way delay: 137.257 ms

Loss rate: 0.61%

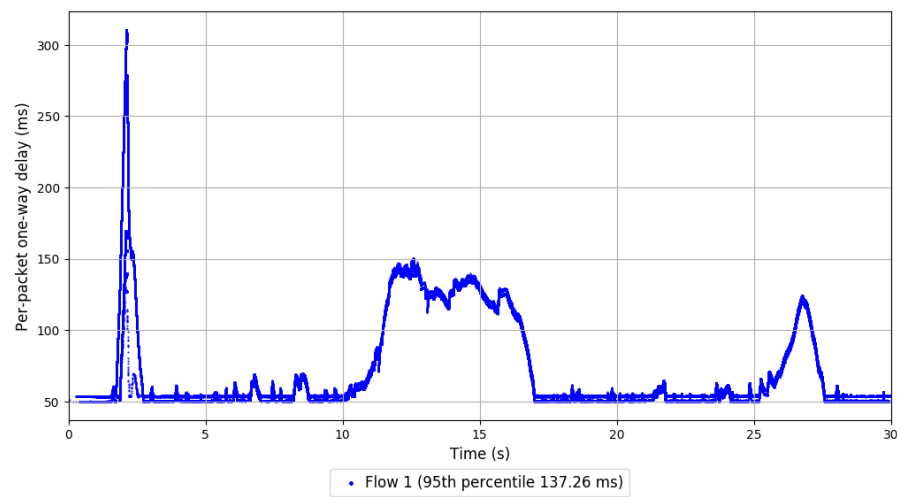
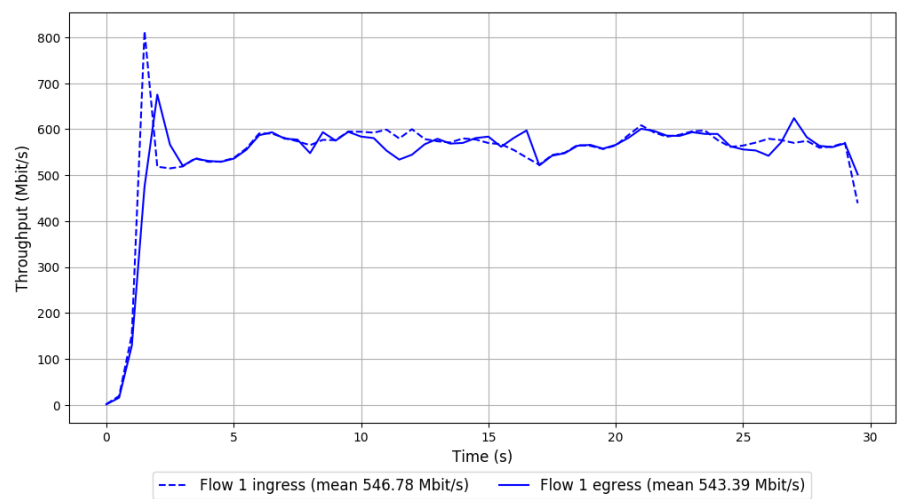
-- Flow 1:

Average throughput: 543.39 Mbit/s

95th percentile per-packet one-way delay: 137.257 ms

Loss rate: 0.61%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 14:46:44

End at: 2018-04-10 14:47:14

Below is generated by plot.py at 2018-04-10 18:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.11 Mbit/s

95th percentile per-packet one-way delay: 124.146 ms

Loss rate: 0.51%

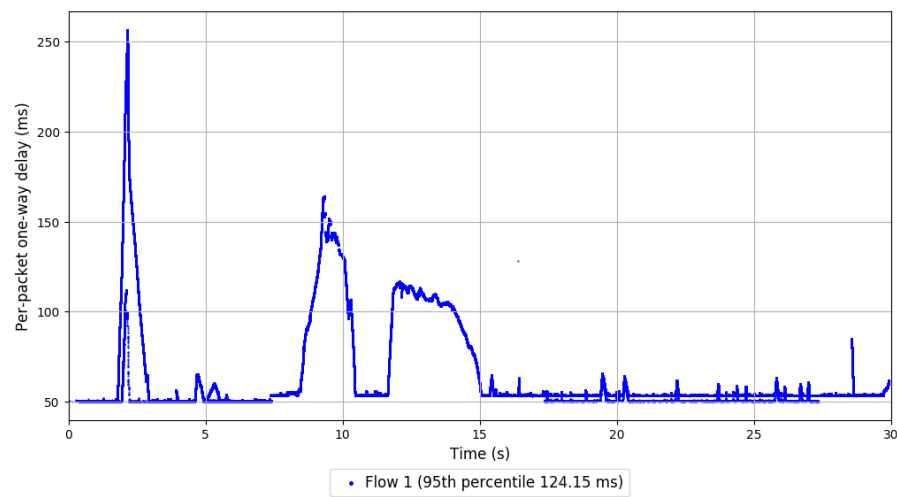
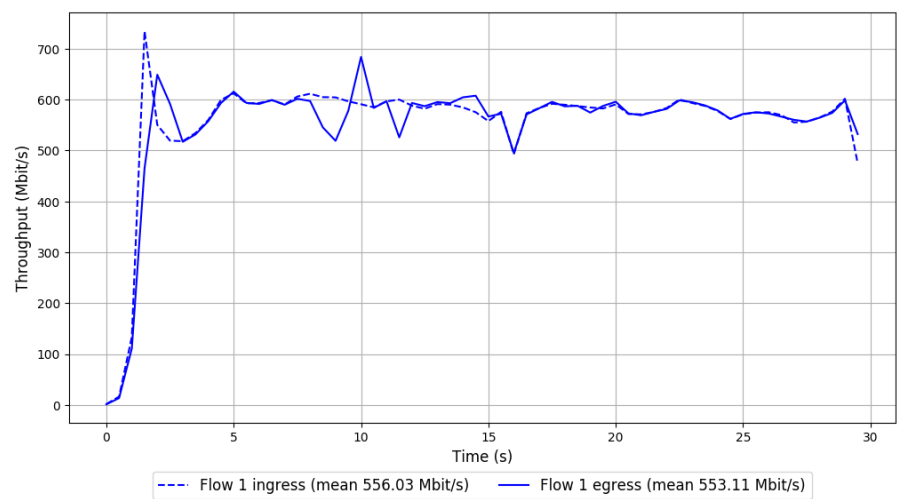
-- Flow 1:

Average throughput: 553.11 Mbit/s

95th percentile per-packet one-way delay: 124.146 ms

Loss rate: 0.51%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-10 15:00:59

End at: 2018-04-10 15:01:29

Below is generated by plot.py at 2018-04-10 18:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 520.88 Mbit/s

95th percentile per-packet one-way delay: 62.831 ms

Loss rate: 0.13%

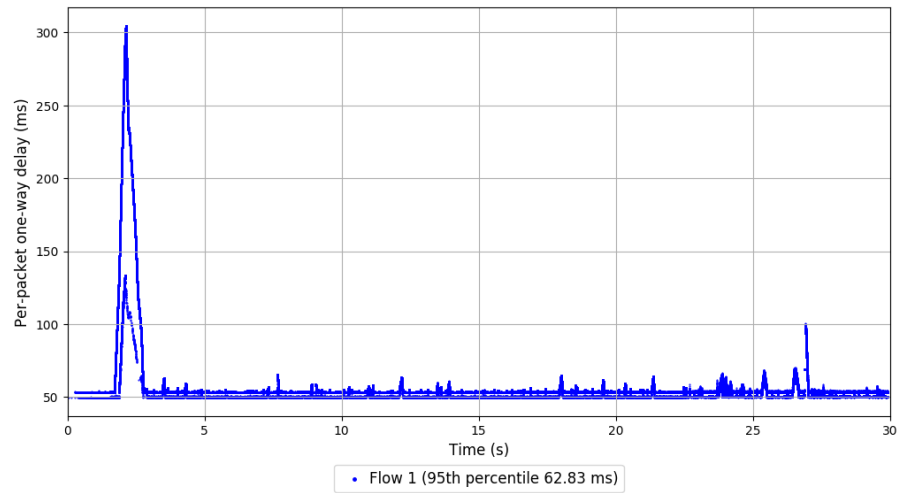
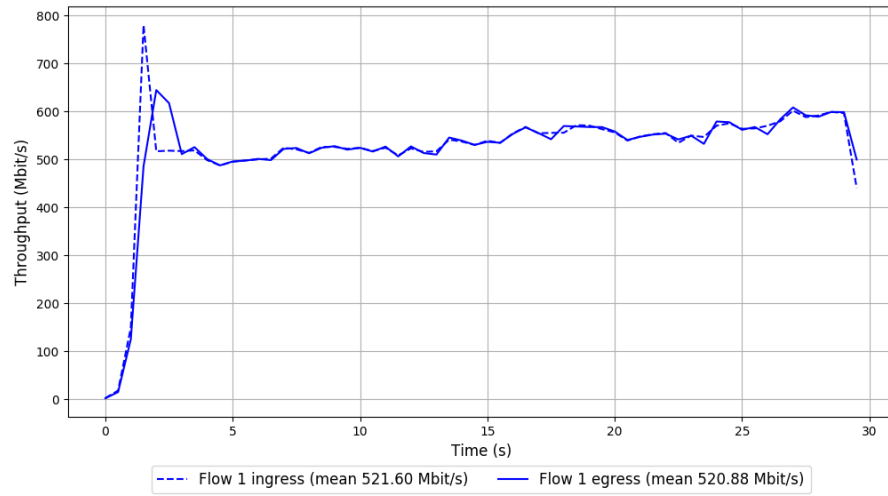
-- Flow 1:

Average throughput: 520.88 Mbit/s

95th percentile per-packet one-way delay: 62.831 ms

Loss rate: 0.13%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-10 15:15:50

End at: 2018-04-10 15:16:20

Below is generated by plot.py at 2018-04-10 18:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.25 Mbit/s

95th percentile per-packet one-way delay: 138.573 ms

Loss rate: 1.09%

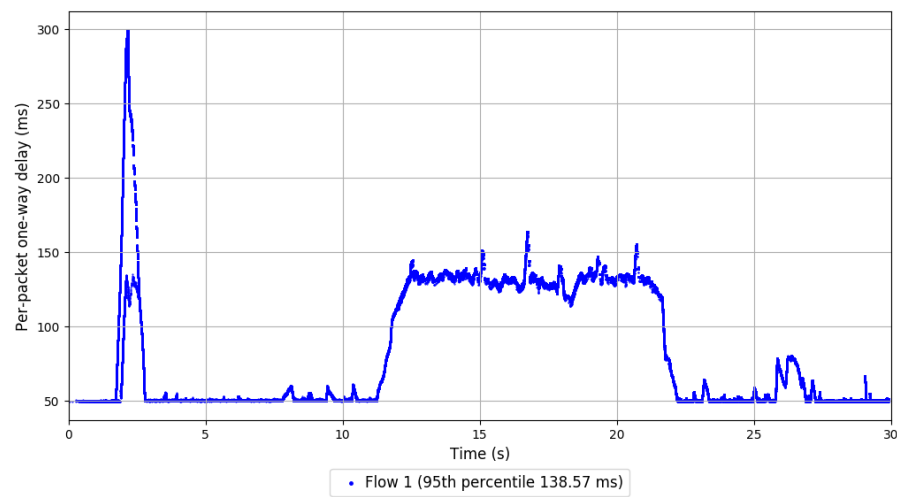
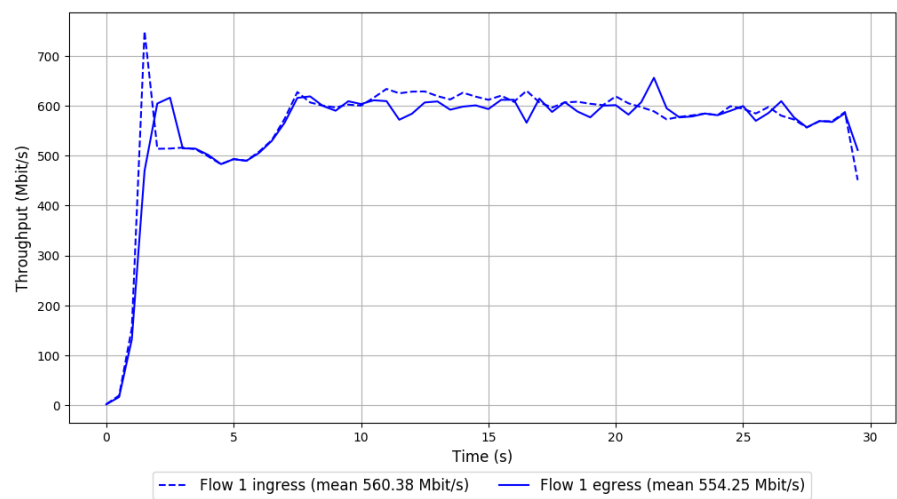
-- Flow 1:

Average throughput: 554.25 Mbit/s

95th percentile per-packet one-way delay: 138.573 ms

Loss rate: 1.09%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-10 15:30:27

End at: 2018-04-10 15:30:57

Below is generated by plot.py at 2018-04-10 18:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.40 Mbit/s

95th percentile per-packet one-way delay: 141.155 ms

Loss rate: 1.04%

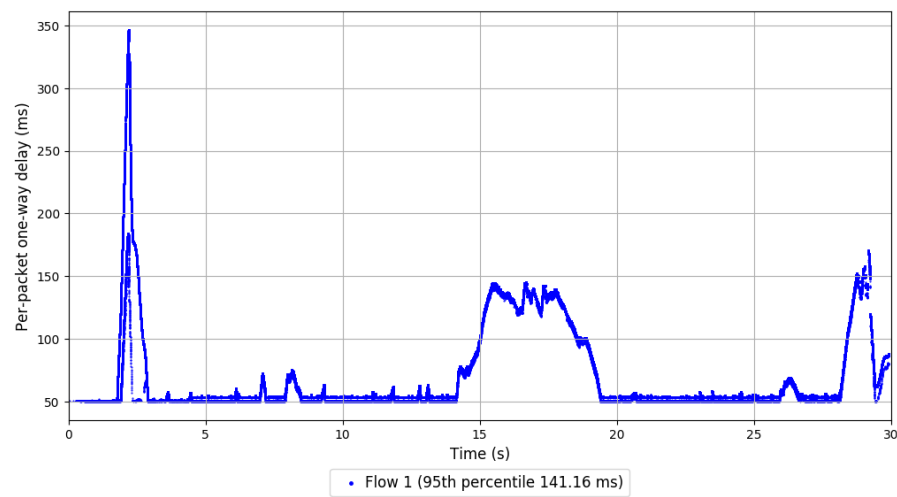
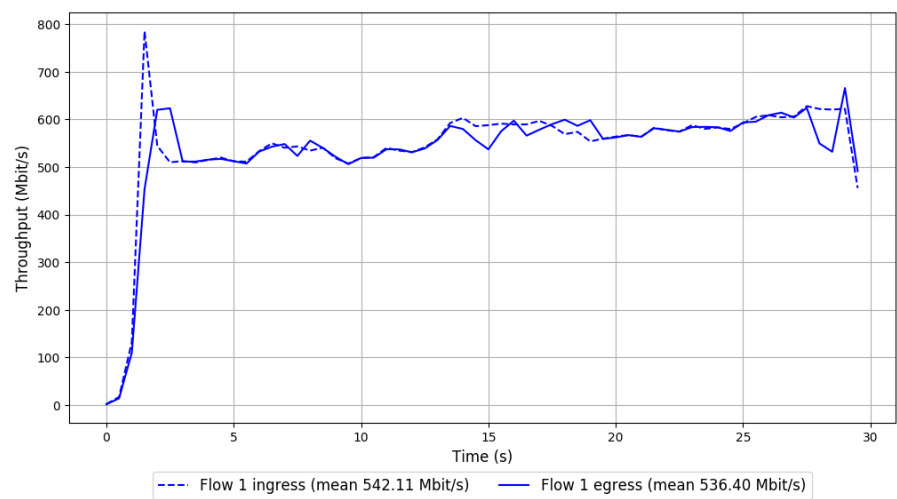
-- Flow 1:

Average throughput: 536.40 Mbit/s

95th percentile per-packet one-way delay: 141.155 ms

Loss rate: 1.04%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-10 15:44:32

End at: 2018-04-10 15:45:02

Below is generated by plot.py at 2018-04-10 18:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.67 Mbit/s

95th percentile per-packet one-way delay: 139.844 ms

Loss rate: 1.10%

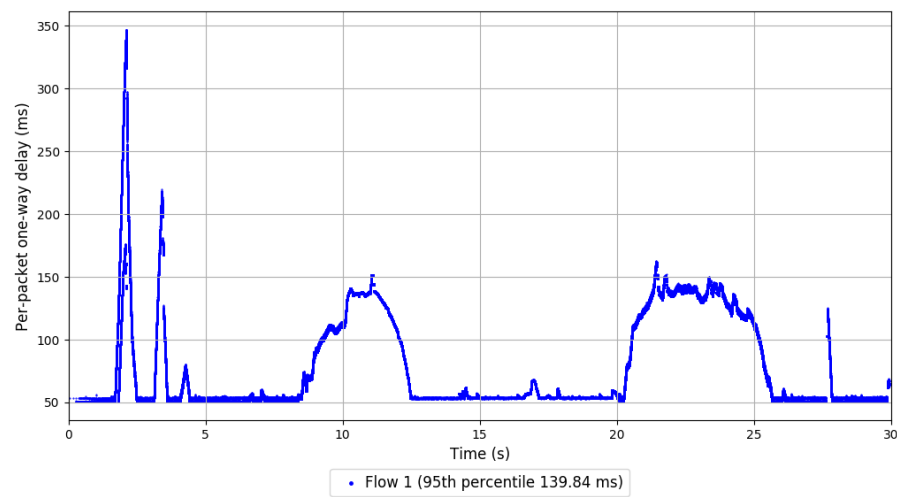
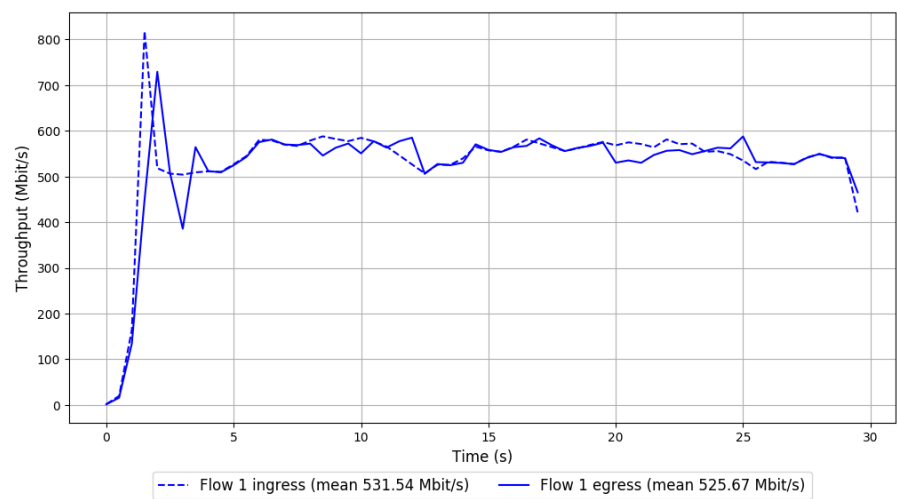
-- Flow 1:

Average throughput: 525.67 Mbit/s

95th percentile per-packet one-way delay: 139.844 ms

Loss rate: 1.10%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-10 15:58:59

End at: 2018-04-10 15:59:29

Below is generated by plot.py at 2018-04-10 18:21:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 545.61 Mbit/s

95th percentile per-packet one-way delay: 135.554 ms

Loss rate: 0.49%

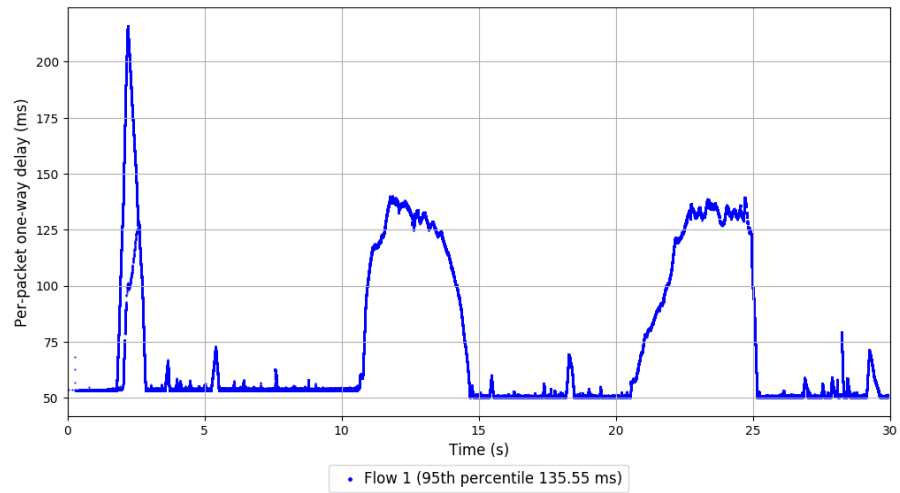
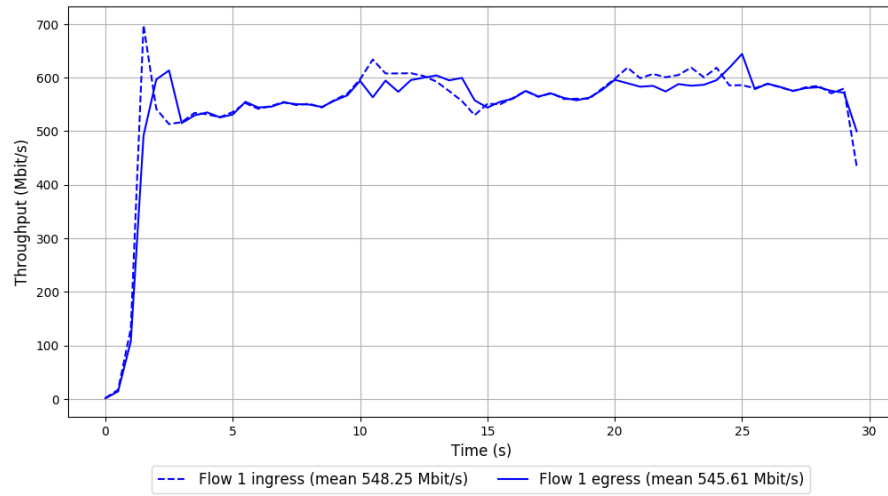
-- Flow 1:

Average throughput: 545.61 Mbit/s

95th percentile per-packet one-way delay: 135.554 ms

Loss rate: 0.49%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-10 16:13:13

End at: 2018-04-10 16:13:43

Below is generated by plot.py at 2018-04-10 18:30:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.86 Mbit/s

95th percentile per-packet one-way delay: 131.514 ms

Loss rate: 0.39%

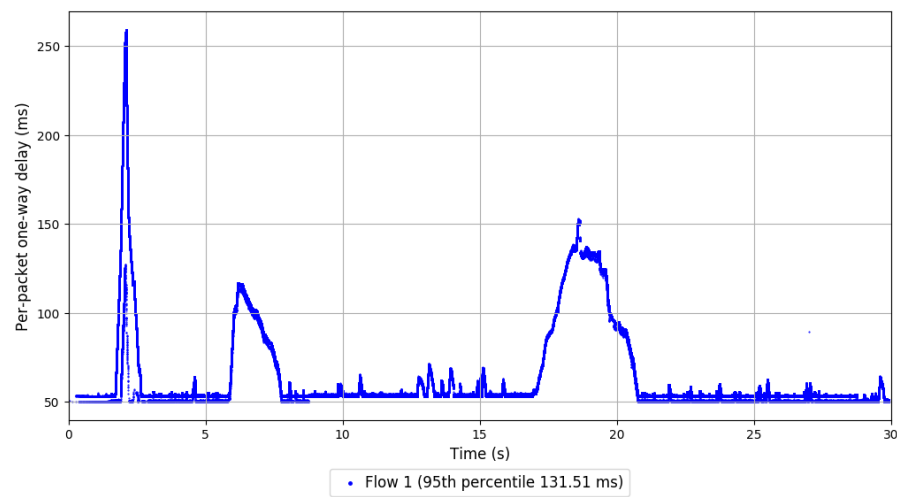
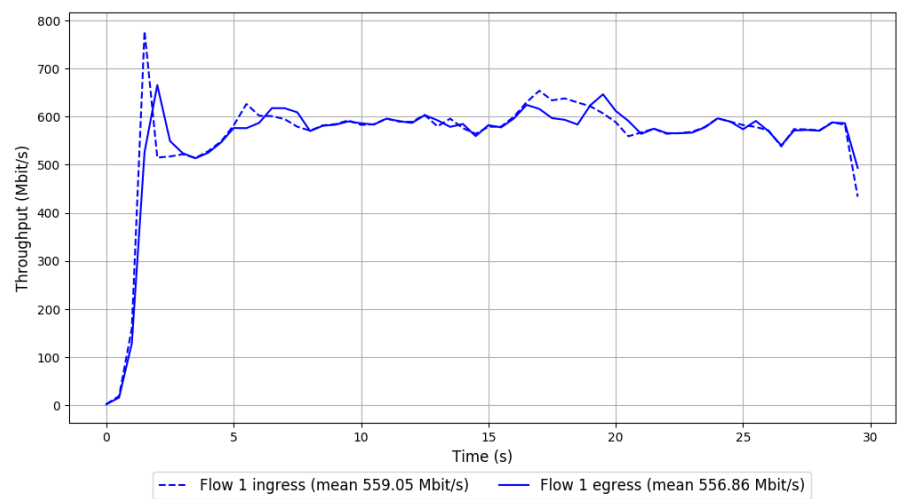
-- Flow 1:

Average throughput: 556.86 Mbit/s

95th percentile per-packet one-way delay: 131.514 ms

Loss rate: 0.39%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-10 16:27:25

End at: 2018-04-10 16:27:55

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.18 Mbit/s

95th percentile per-packet one-way delay: 135.386 ms

Loss rate: 0.50%

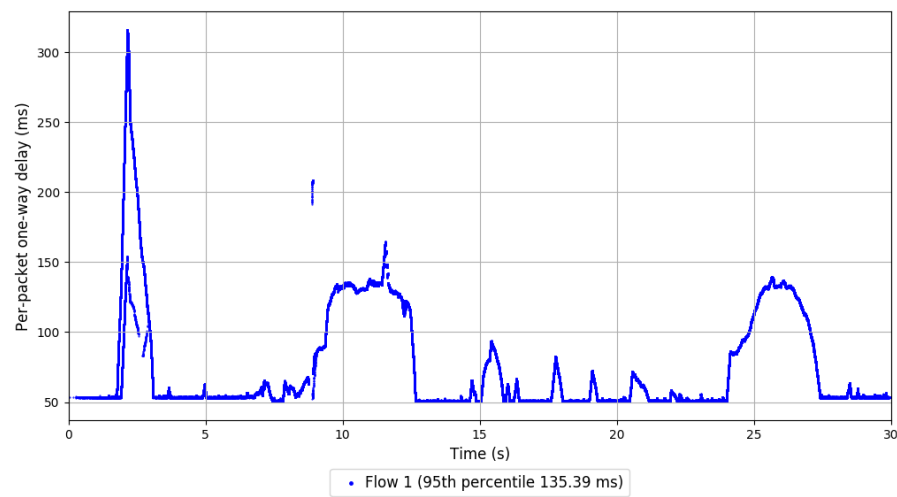
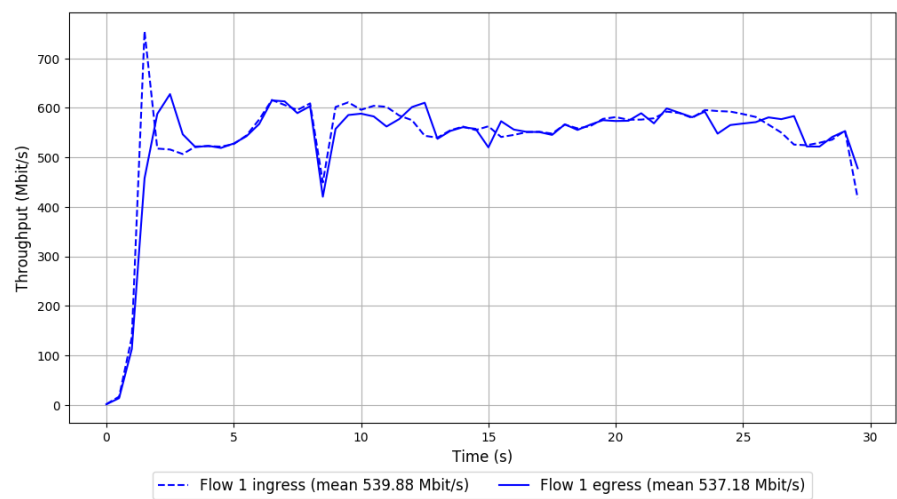
-- Flow 1:

Average throughput: 537.18 Mbit/s

95th percentile per-packet one-way delay: 135.386 ms

Loss rate: 0.50%

Run 10: Report of PCC — Data Link

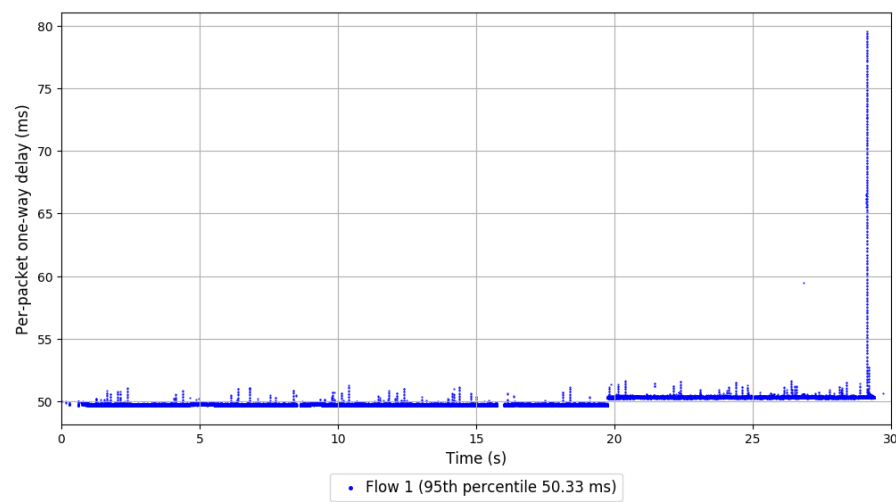
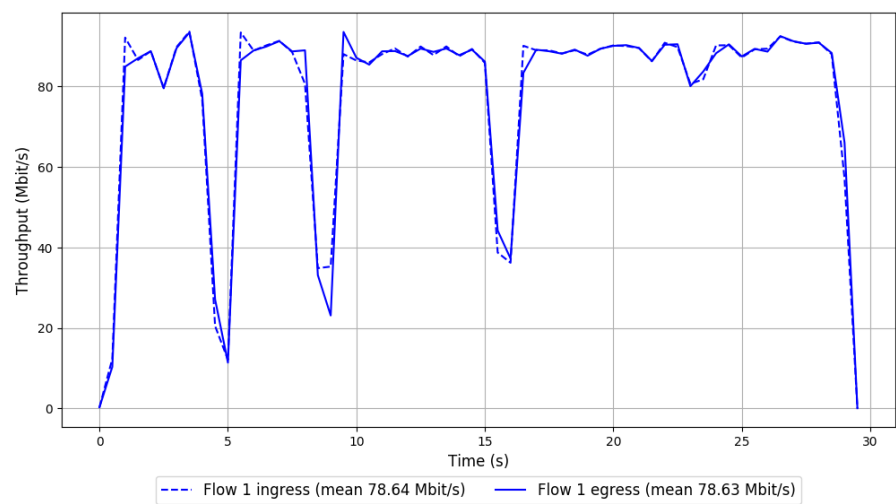


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 14:08:32
End at: 2018-04-10 14:09:02

# Below is generated by plot.py at 2018-04-10 18:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.63 Mbit/s
95th percentile per-packet one-way delay: 50.330 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.63 Mbit/s
95th percentile per-packet one-way delay: 50.330 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 14:22:57

End at: 2018-04-10 14:23:27

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 53.439 ms

Loss rate: 0.00%

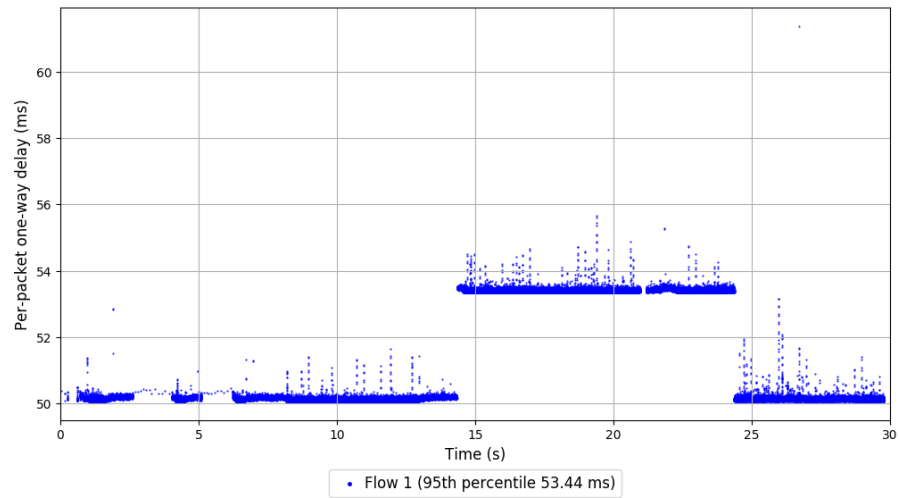
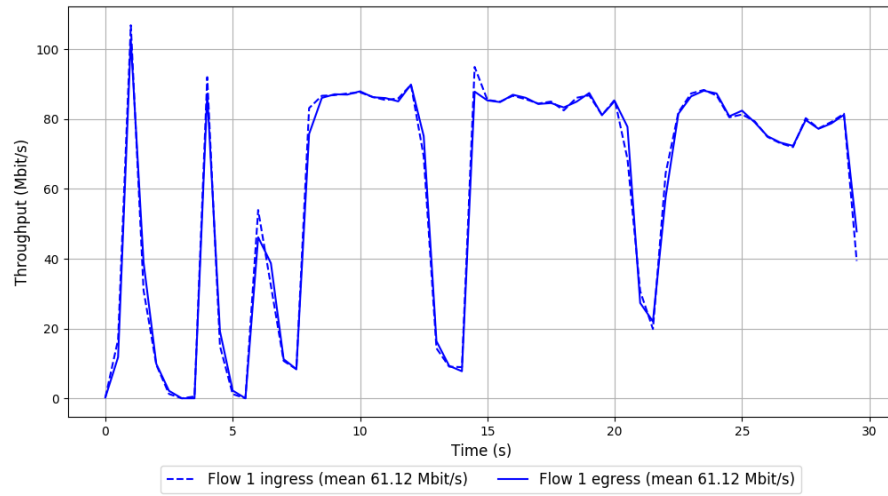
-- Flow 1:

Average throughput: 61.12 Mbit/s

95th percentile per-packet one-way delay: 53.439 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 14:37:13

End at: 2018-04-10 14:37:43

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.07 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.00%

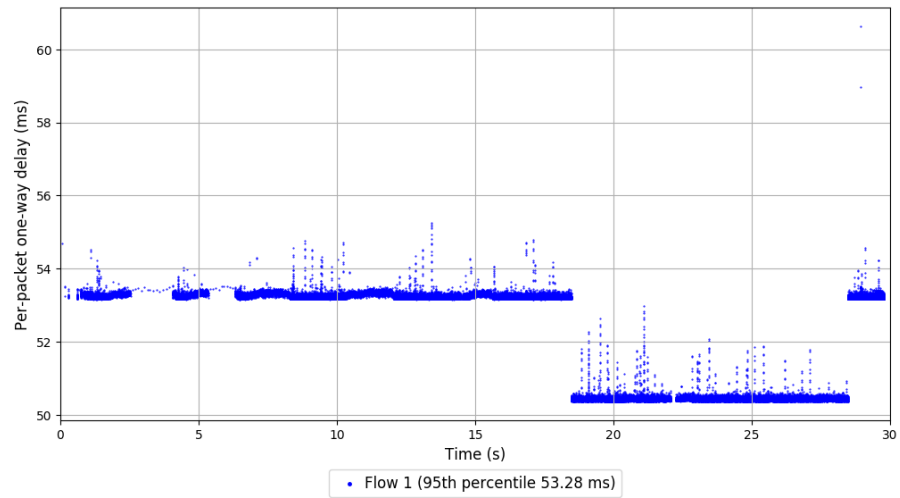
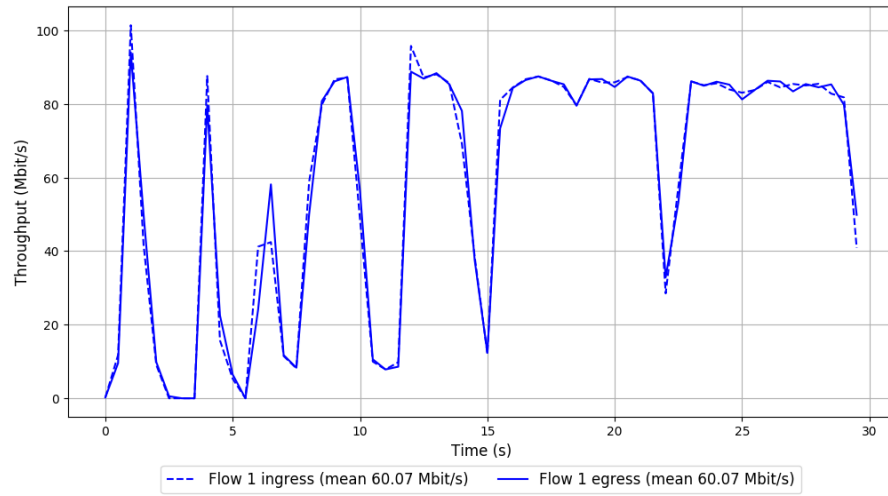
-- Flow 1:

Average throughput: 60.07 Mbit/s

95th percentile per-packet one-way delay: 53.284 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 14:51:24

End at: 2018-04-10 14:51:54

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.30 Mbit/s

95th percentile per-packet one-way delay: 53.159 ms

Loss rate: 0.00%

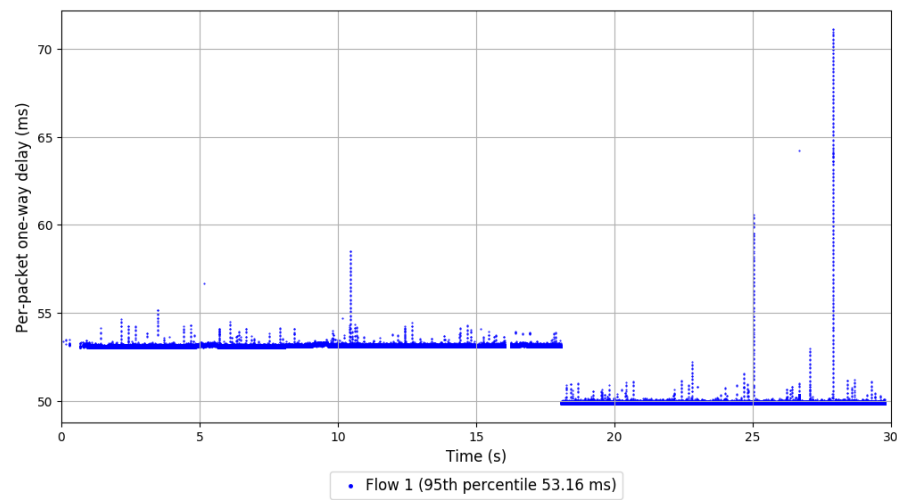
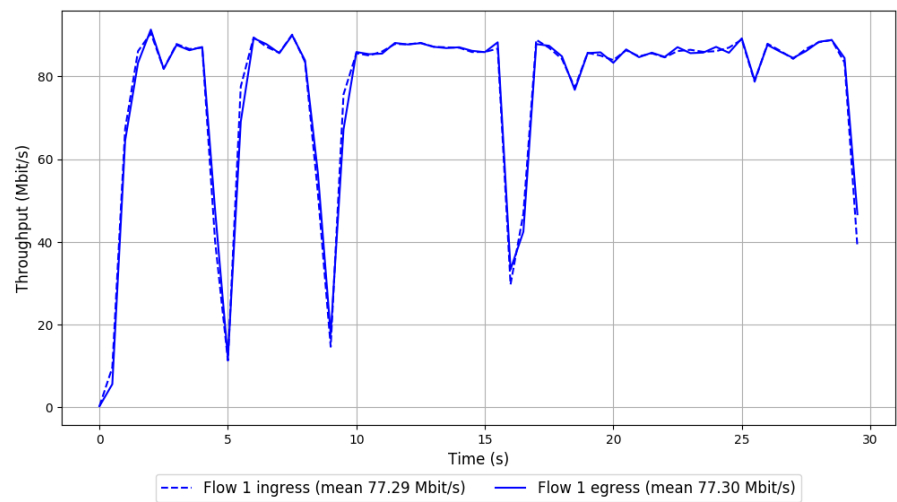
-- Flow 1:

Average throughput: 77.30 Mbit/s

95th percentile per-packet one-way delay: 53.159 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 15:05:39

End at: 2018-04-10 15:06:09

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 50.024 ms

Loss rate: 0.00%

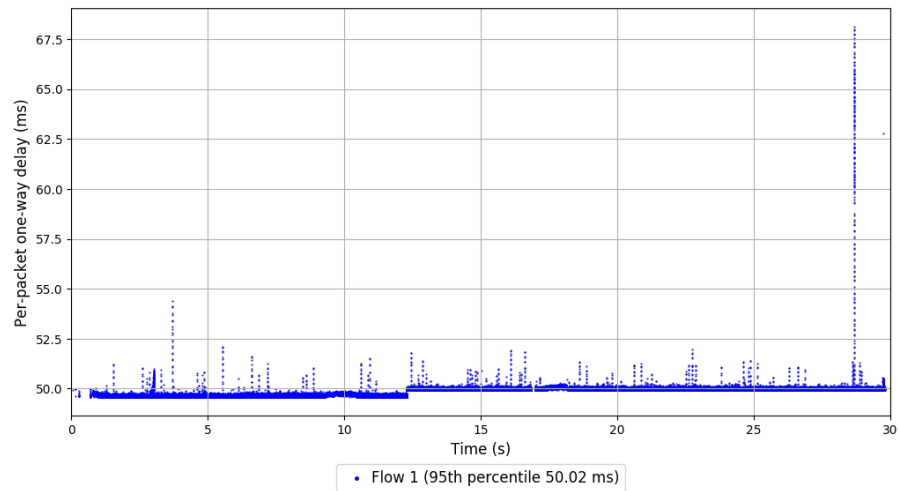
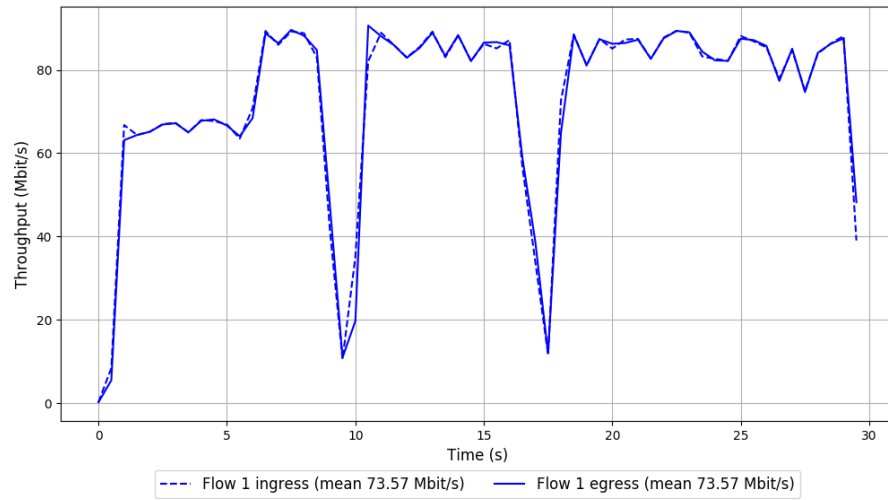
-- Flow 1:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 50.024 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 15:20:30

End at: 2018-04-10 15:21:00

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 53.220 ms

Loss rate: 0.00%

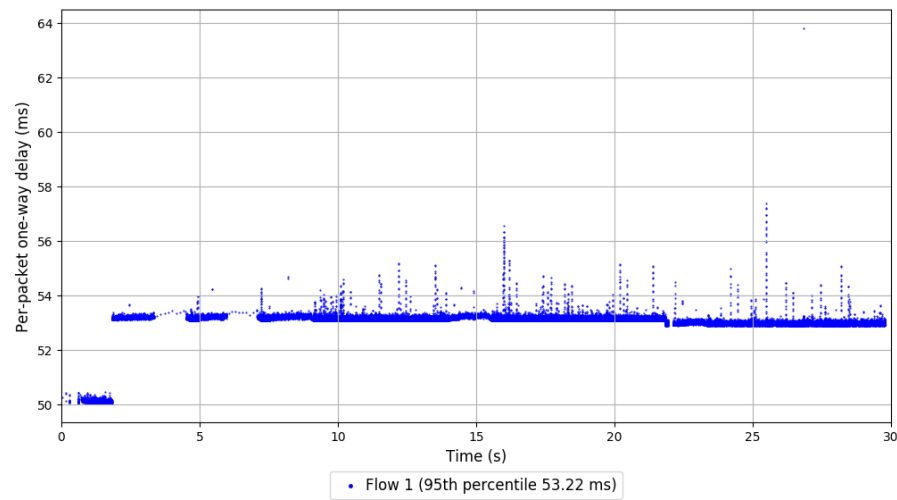
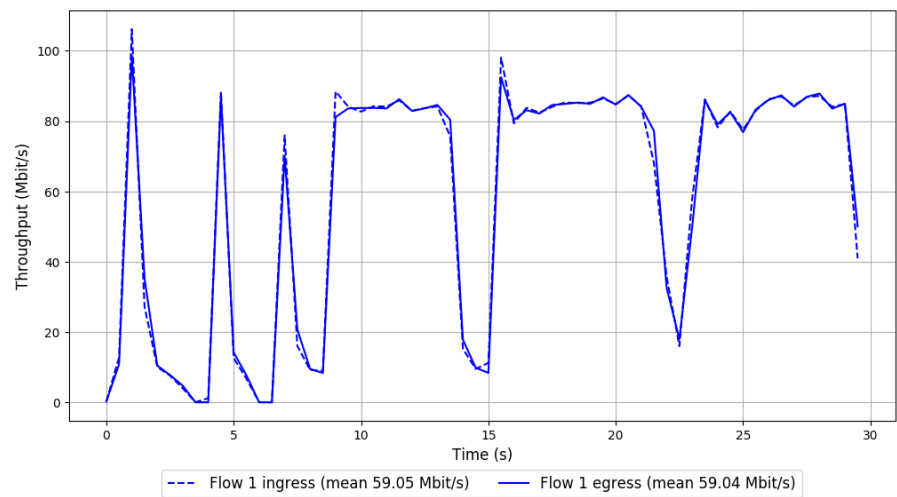
-- Flow 1:

Average throughput: 59.04 Mbit/s

95th percentile per-packet one-way delay: 53.220 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

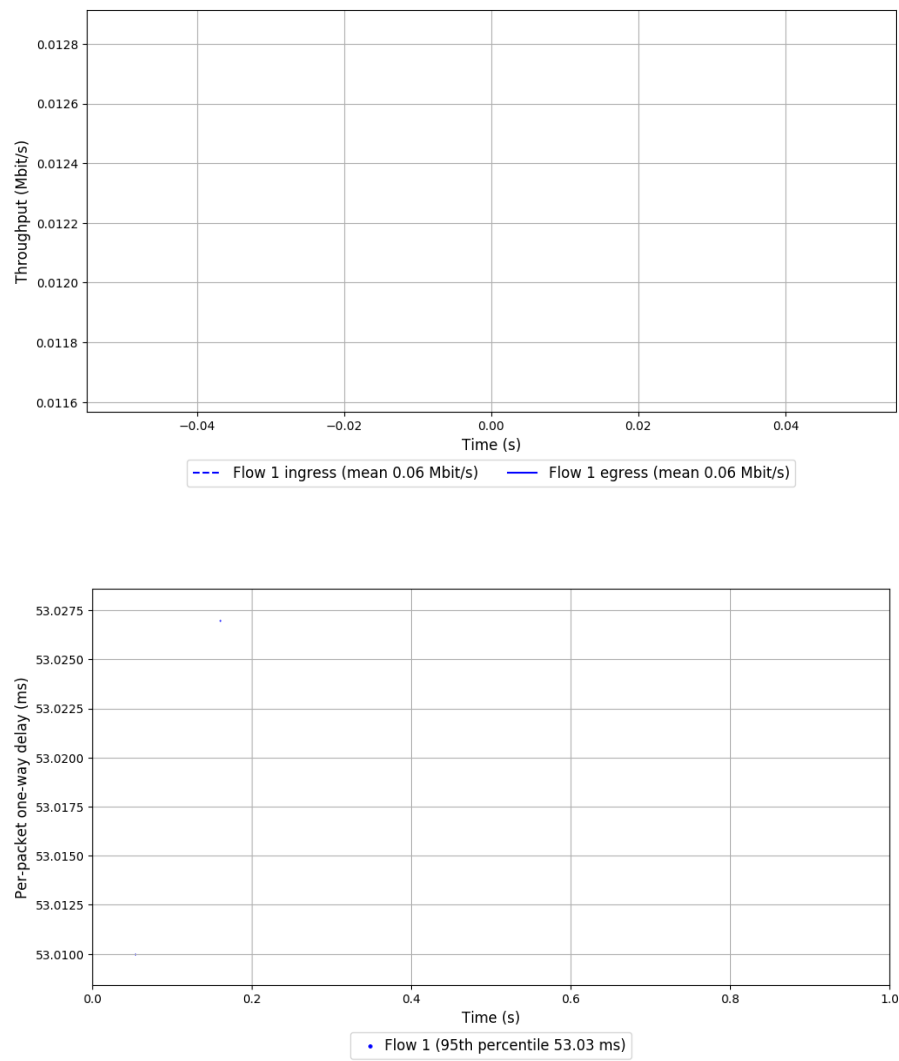


Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 15:35:07

End at: 2018-04-10 15:35:37

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 15:49:11

End at: 2018-04-10 15:49:41

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 50.447 ms

Loss rate: 0.00%

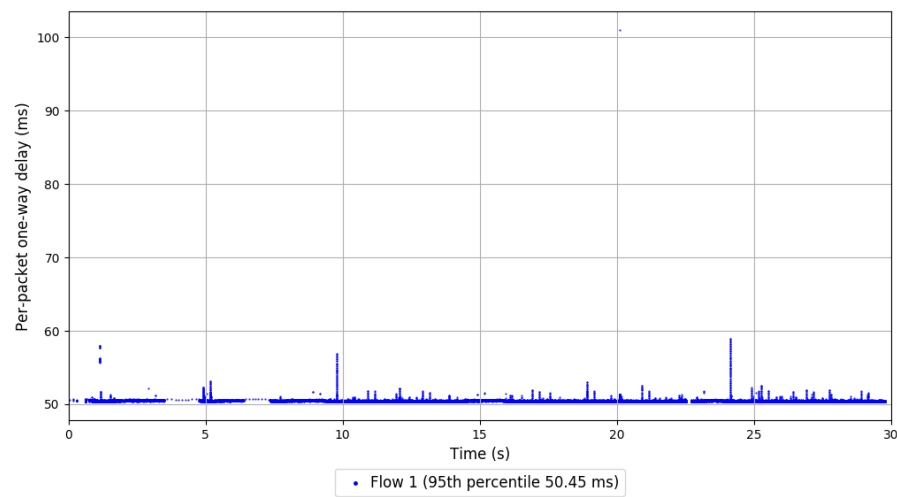
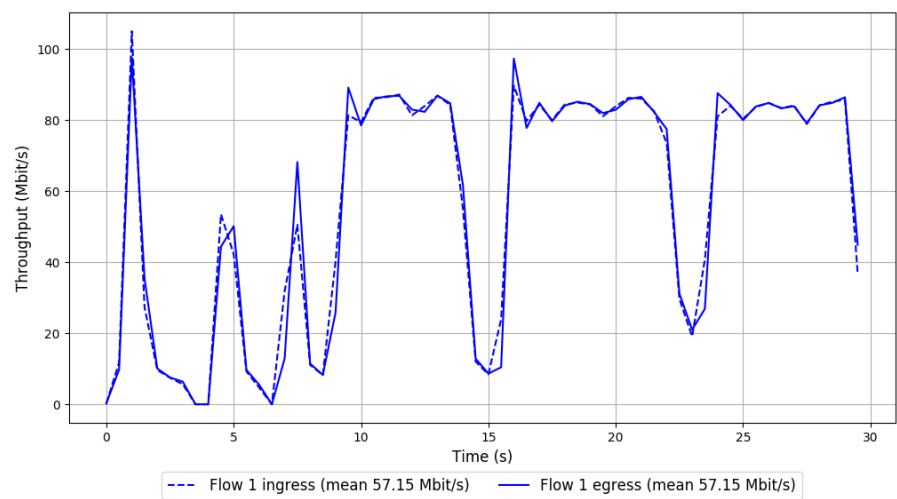
-- Flow 1:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 50.447 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-10 16:03:39

End at: 2018-04-10 16:04:09

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 53.049 ms

Loss rate: 0.00%

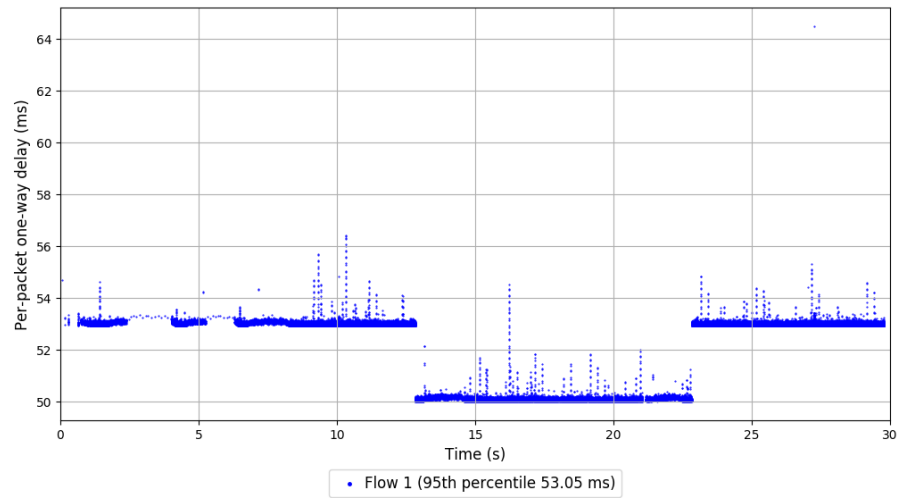
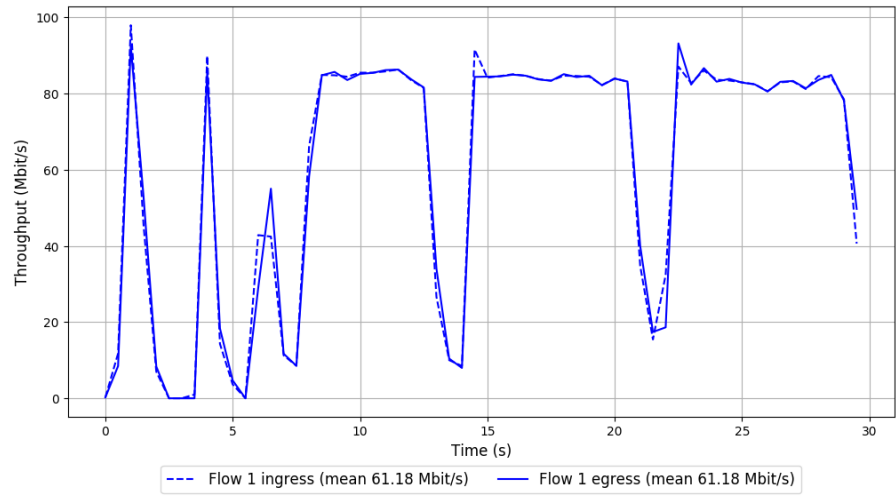
-- Flow 1:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 53.049 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

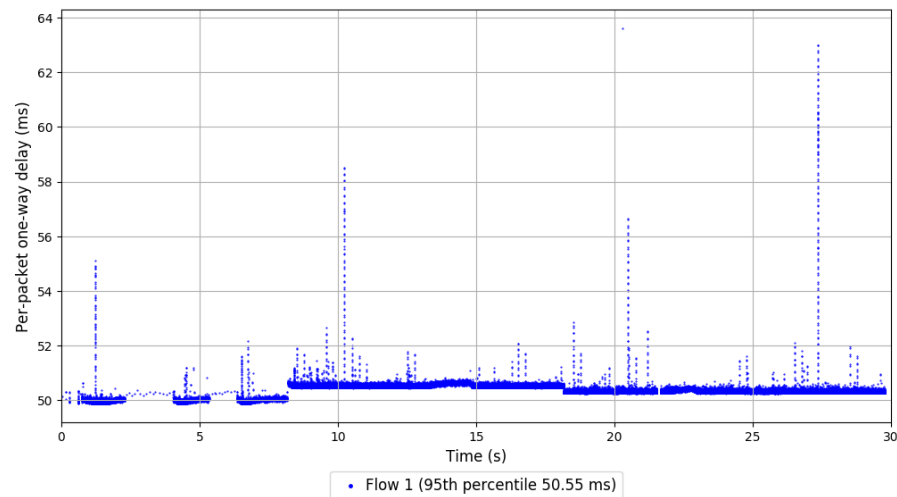
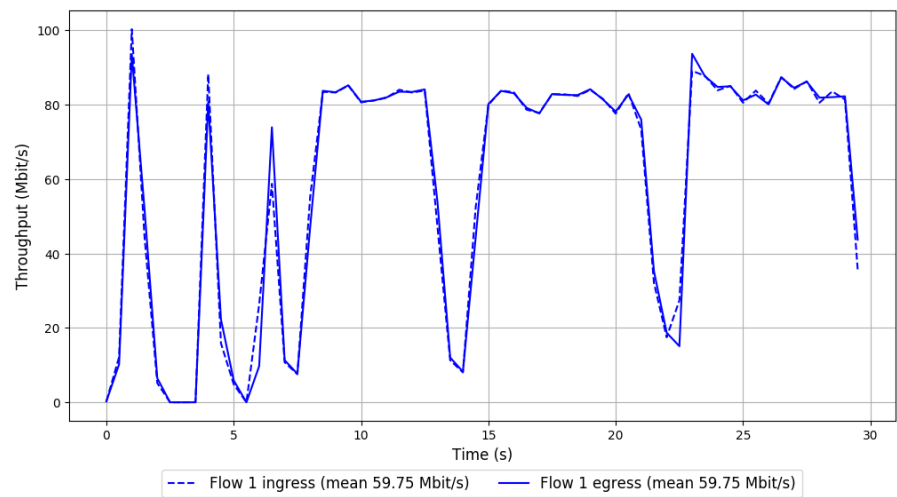


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-10 16:17:54
End at: 2018-04-10 16:18:24

# Below is generated by plot.py at 2018-04-10 18:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.75 Mbit/s
95th percentile per-packet one-way delay: 50.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.75 Mbit/s
95th percentile per-packet one-way delay: 50.545 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

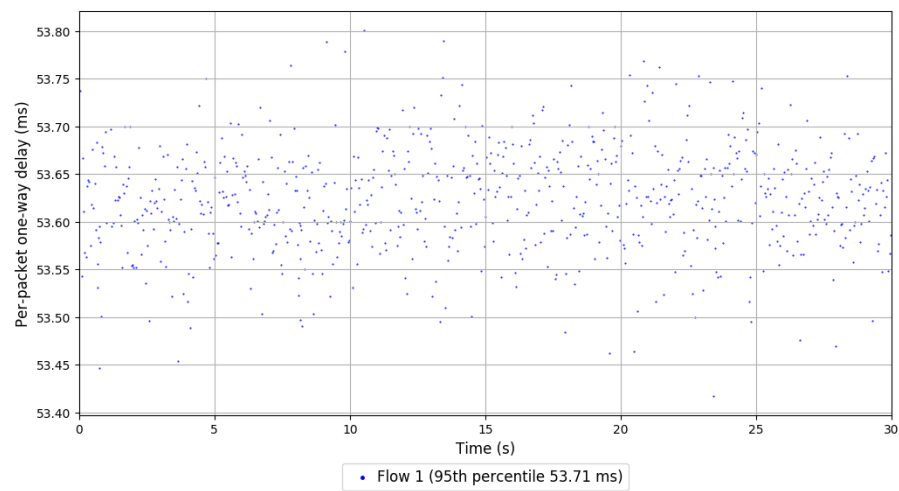
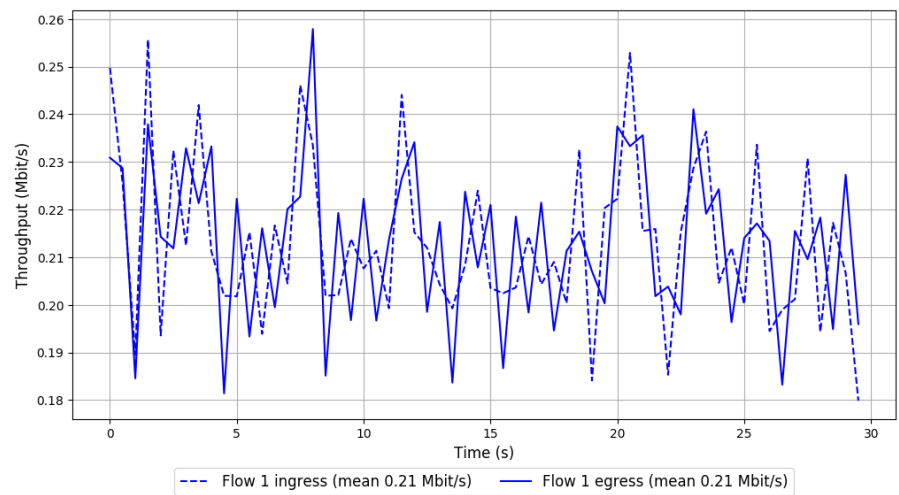


```
Run 1: Statistics of SCReAM

Start at: 2018-04-10 14:10:03
End at: 2018-04-10 14:10:33

# Below is generated by plot.py at 2018-04-10 18:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.706 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

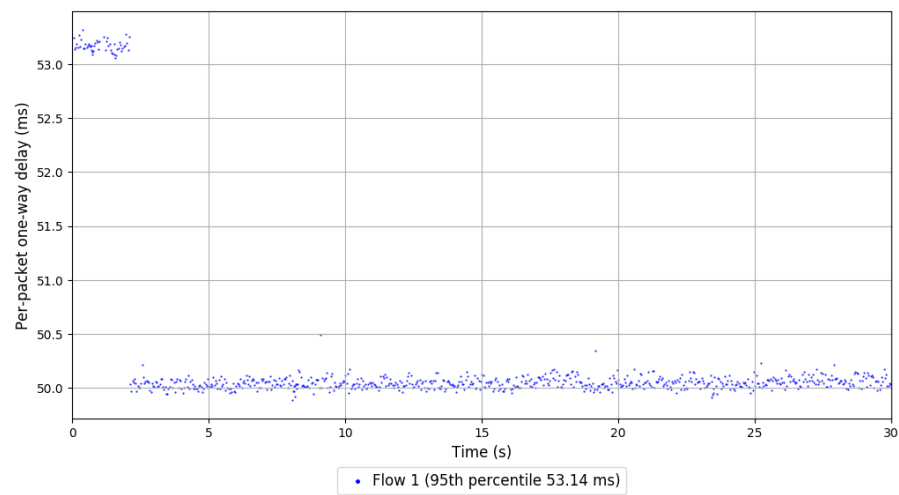
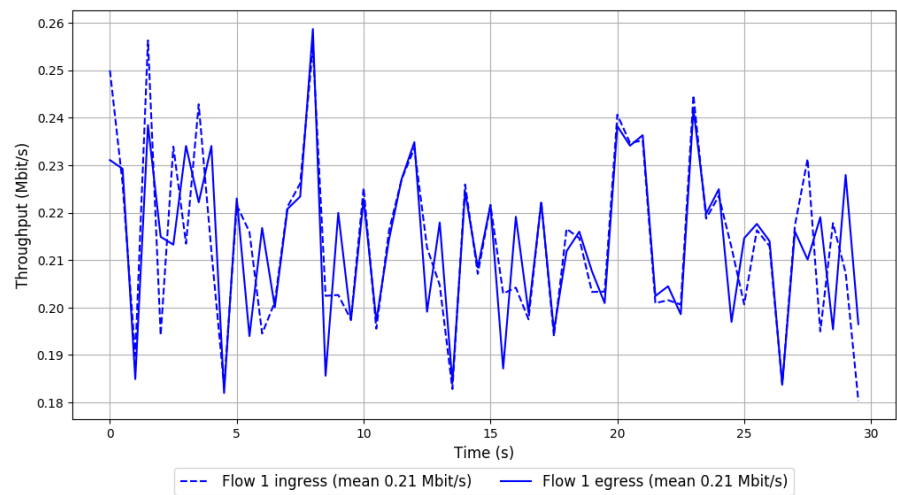


```
Run 2: Statistics of SCReAM

Start at: 2018-04-10 14:24:20
End at: 2018-04-10 14:24:50

# Below is generated by plot.py at 2018-04-10 18:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.141 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-10 14:38:38

End at: 2018-04-10 14:39:08

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.552 ms

Loss rate: 0.00%

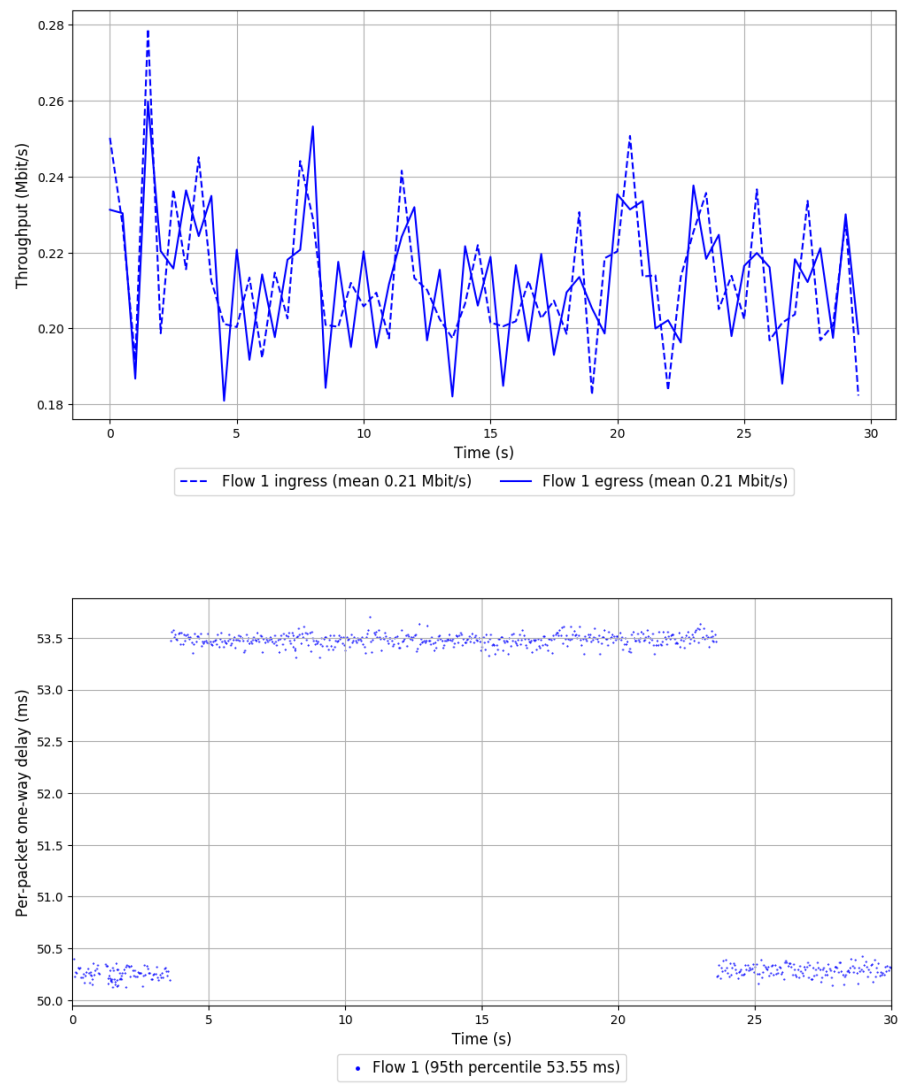
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.552 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-10 14:52:48

End at: 2018-04-10 14:53:18

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.638 ms

Loss rate: 0.00%

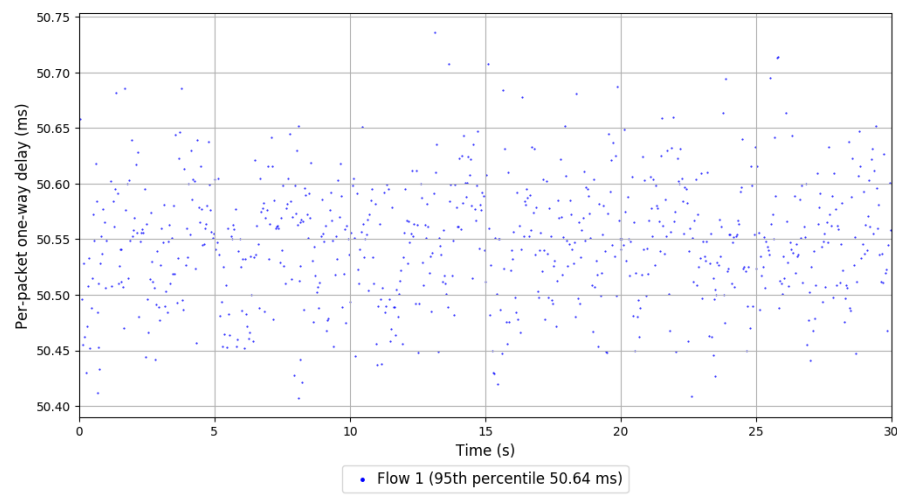
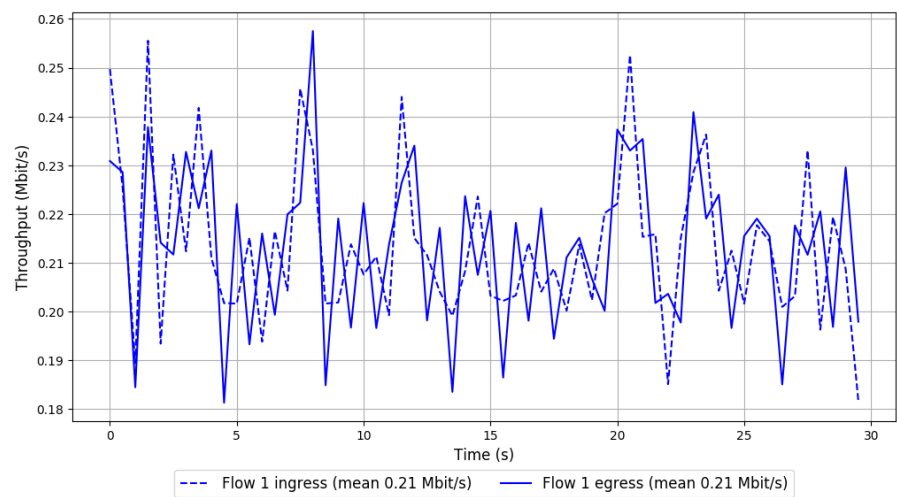
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.638 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-10 15:07:27

End at: 2018-04-10 15:07:57

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.081 ms

Loss rate: 0.00%

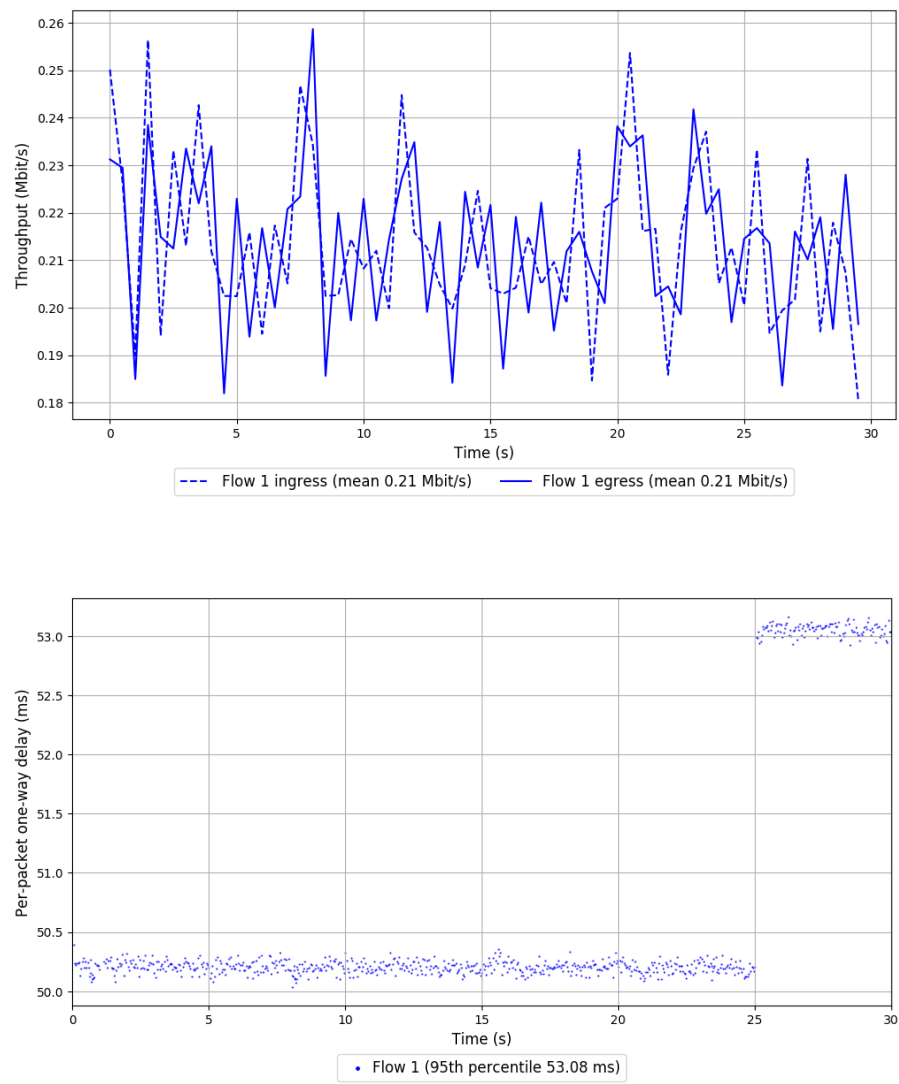
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.081 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-10 15:22:00

End at: 2018-04-10 15:22:30

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.276 ms

Loss rate: 0.00%

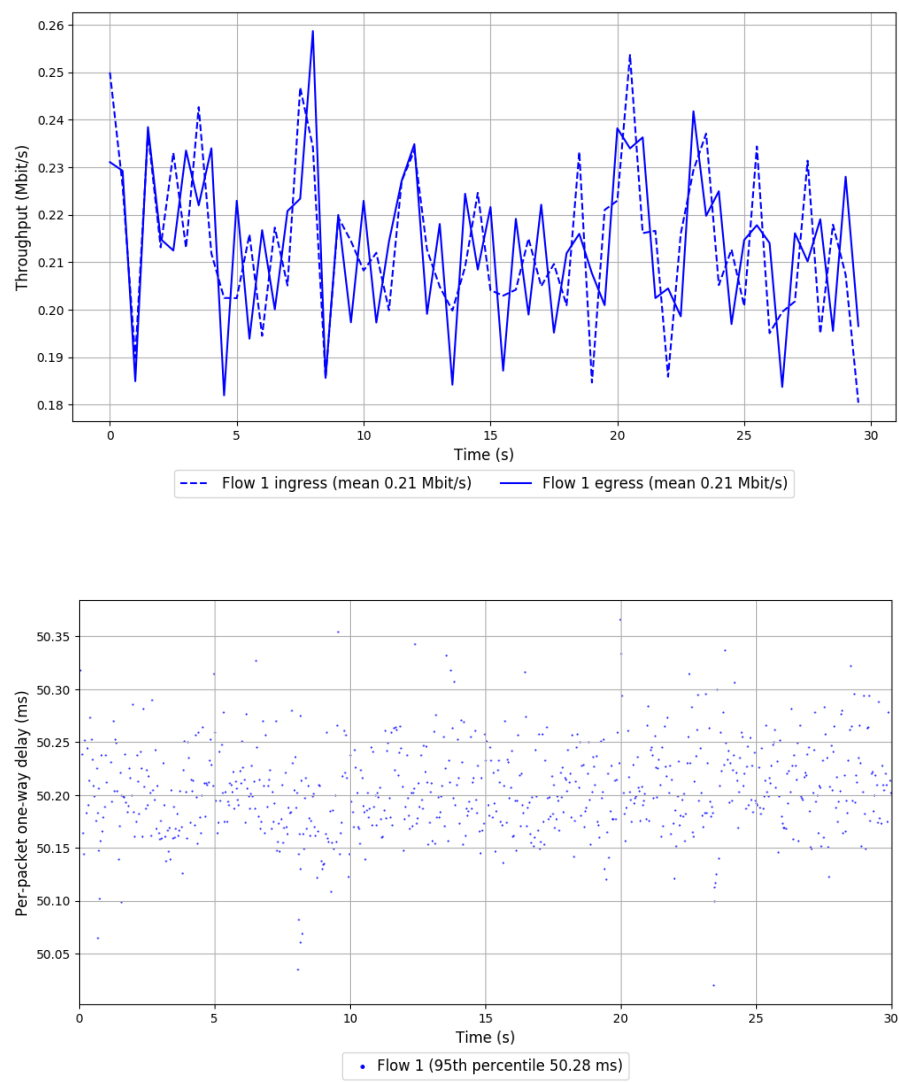
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.276 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-10 15:36:28

End at: 2018-04-10 15:36:58

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.616 ms

Loss rate: 0.00%

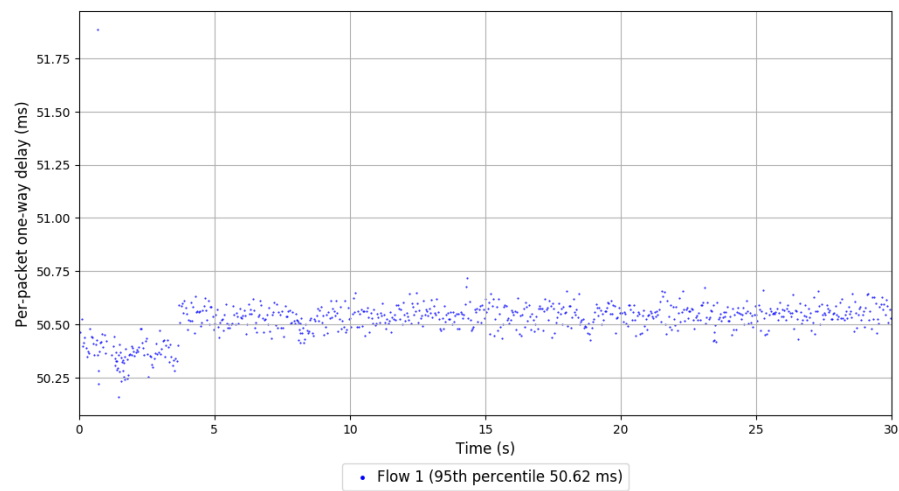
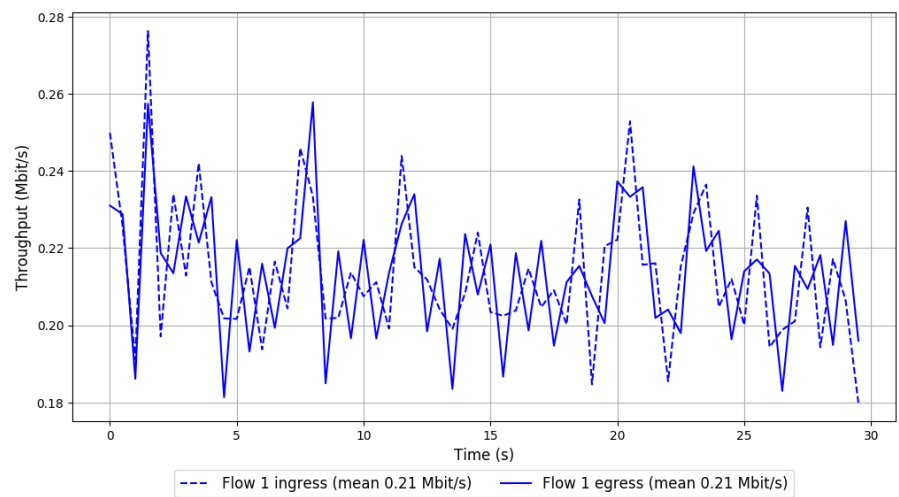
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.616 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-10 15:50:34

End at: 2018-04-10 15:51:04

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.00%

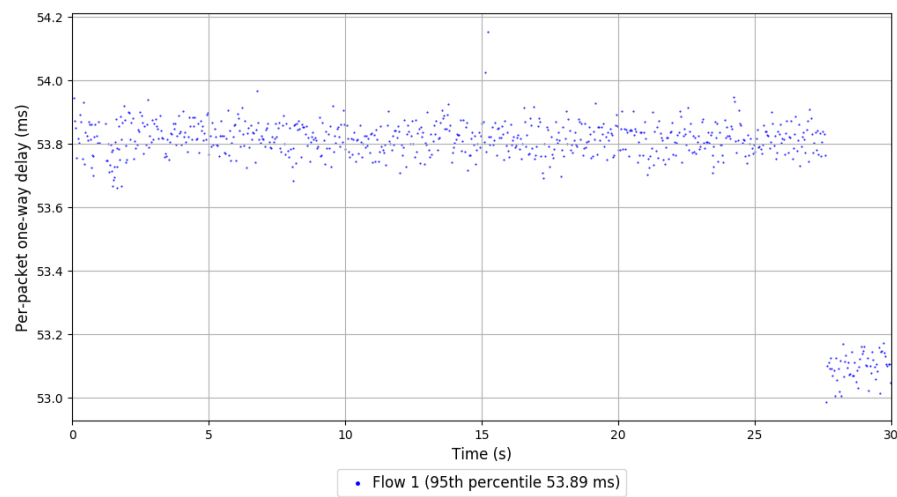
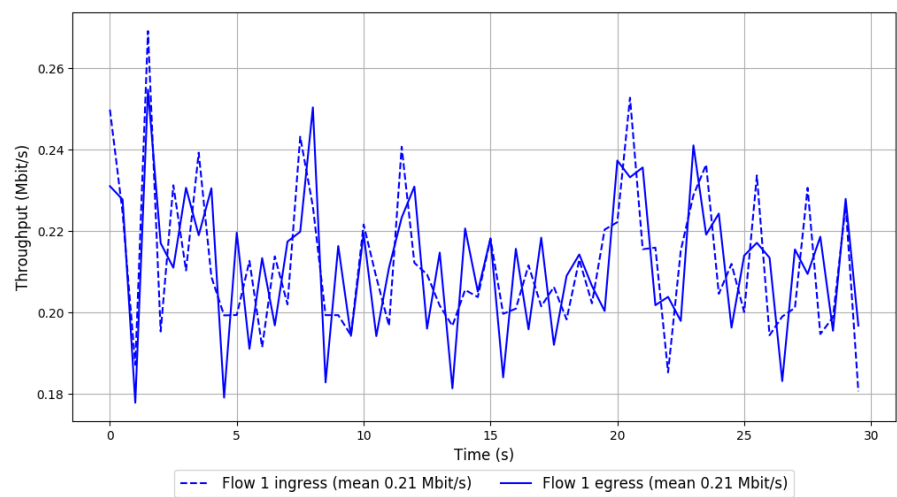
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-10 16:05:03

End at: 2018-04-10 16:05:33

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 0.00%

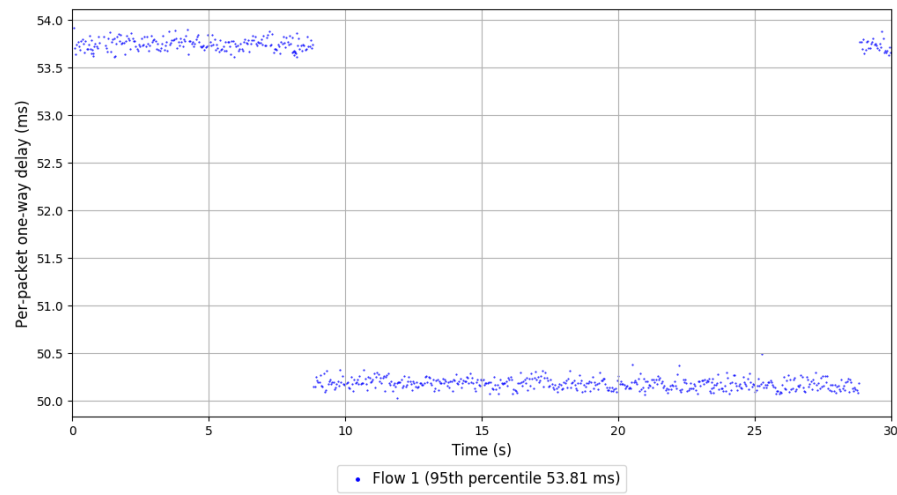
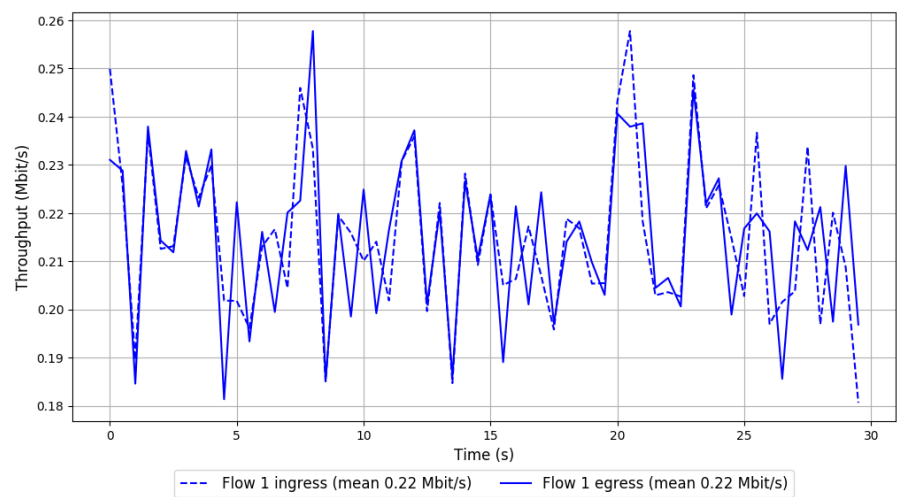
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

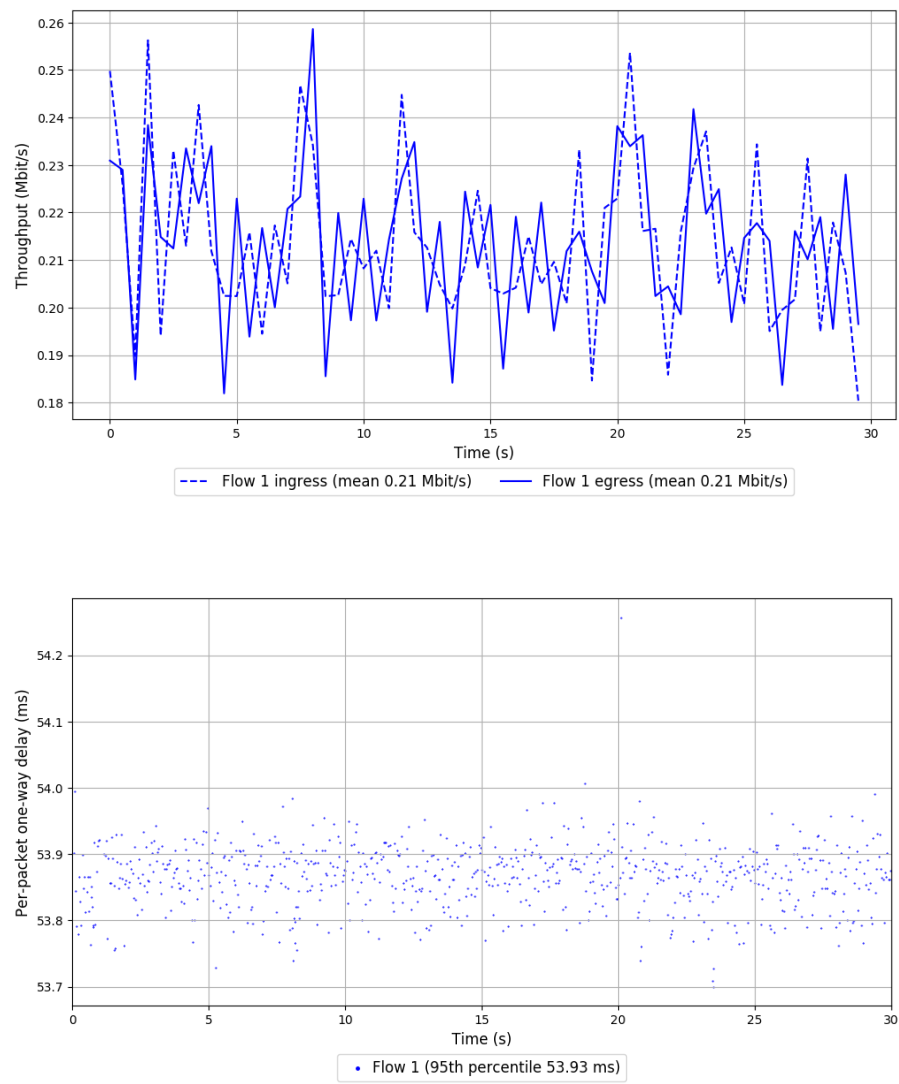


```
Run 10: Statistics of SReAM

Start at: 2018-04-10 16:19:19
End at: 2018-04-10 16:19:49

# Below is generated by plot.py at 2018-04-10 18:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.934 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

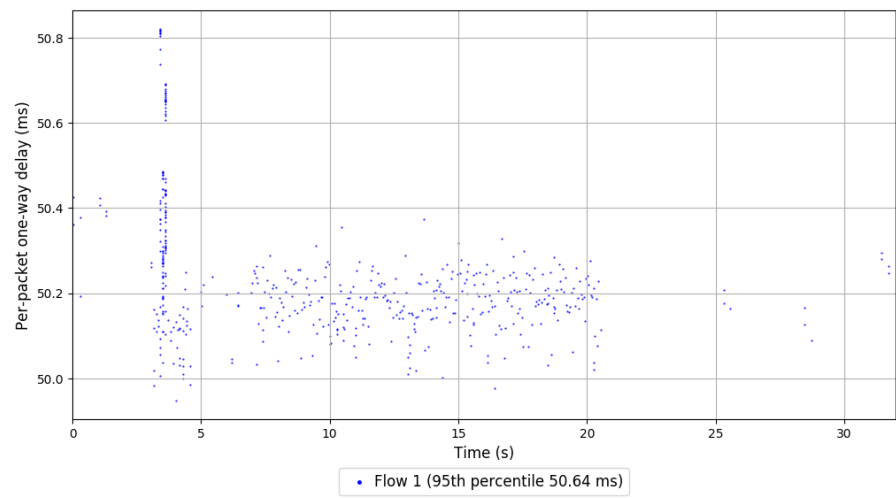
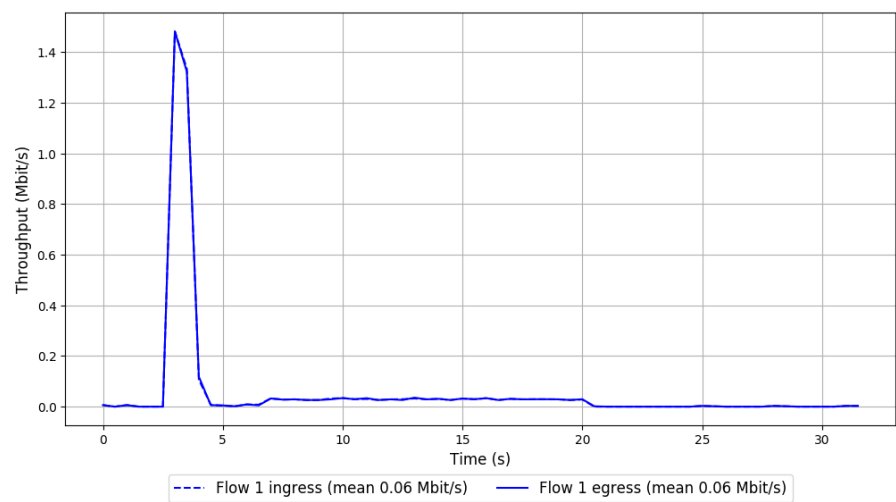


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-10 14:06:52
End at: 2018-04-10 14:07:22

# Below is generated by plot.py at 2018-04-10 18:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.636 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-10 14:21:19

End at: 2018-04-10 14:21:49

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.627 ms

Loss rate: 0.00%

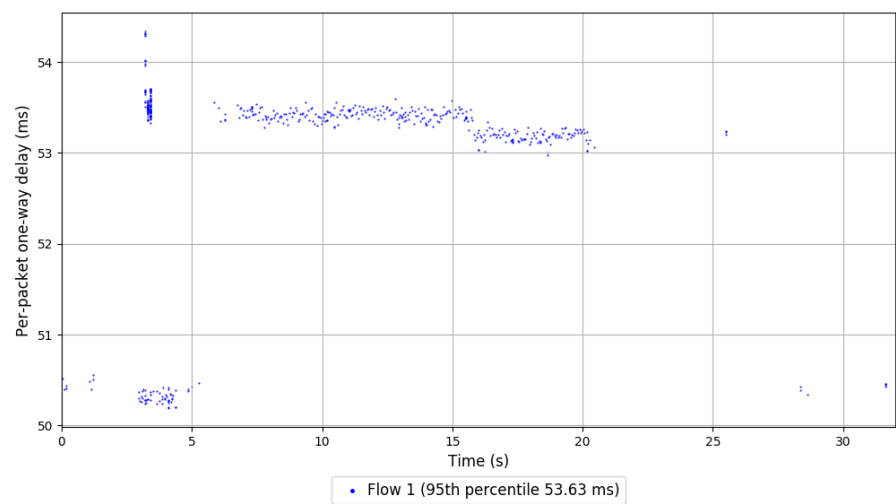
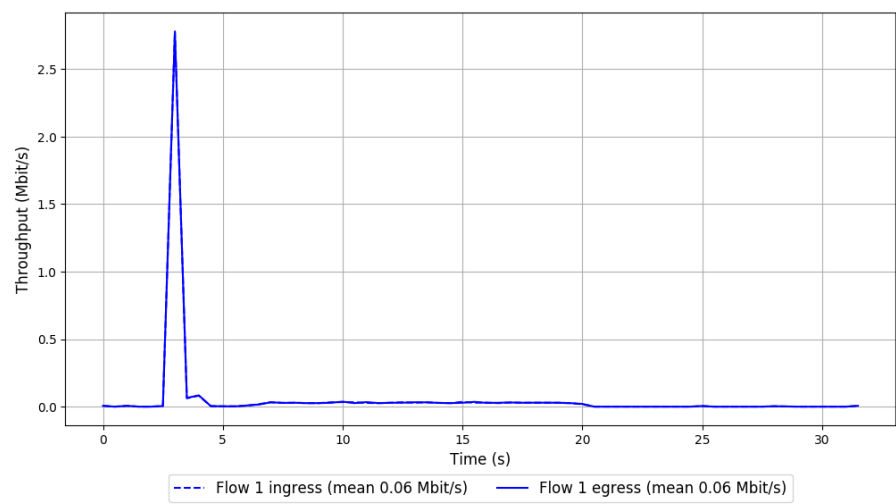
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.627 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 14:35:34

End at: 2018-04-10 14:36:04

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.931 ms

Loss rate: 0.00%

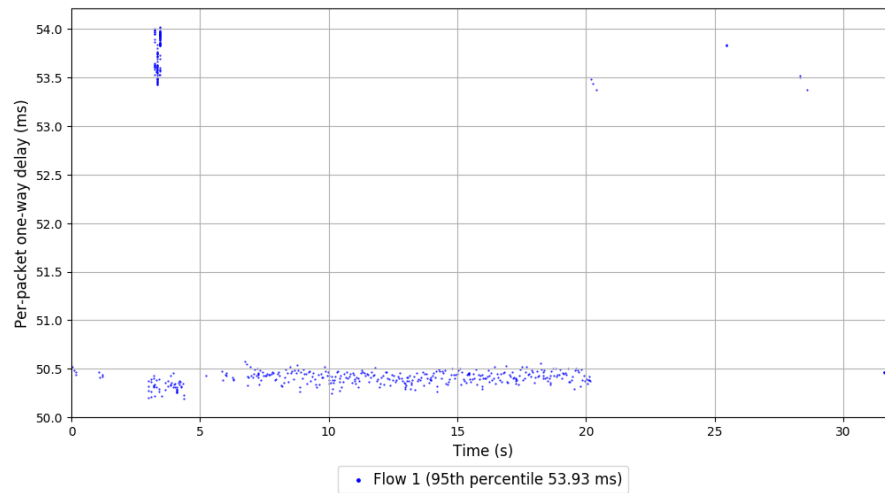
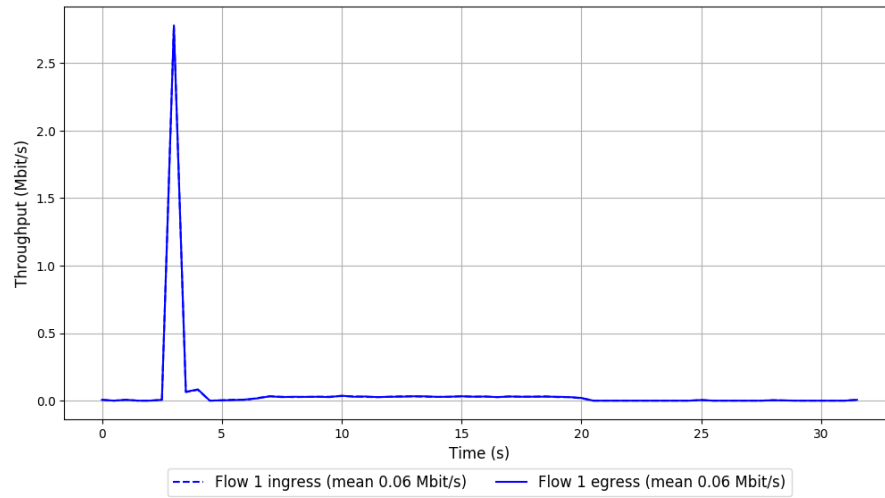
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.931 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-10 14:49:45

End at: 2018-04-10 14:50:15

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.801 ms

Loss rate: 0.00%

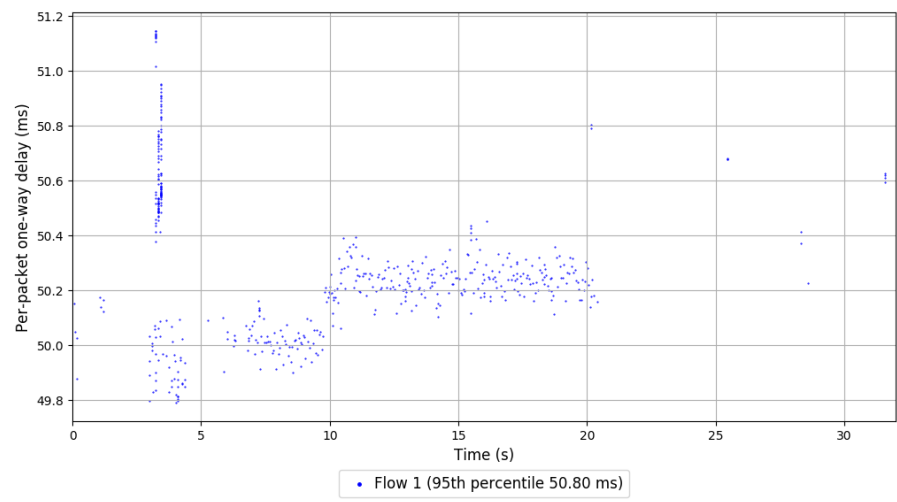
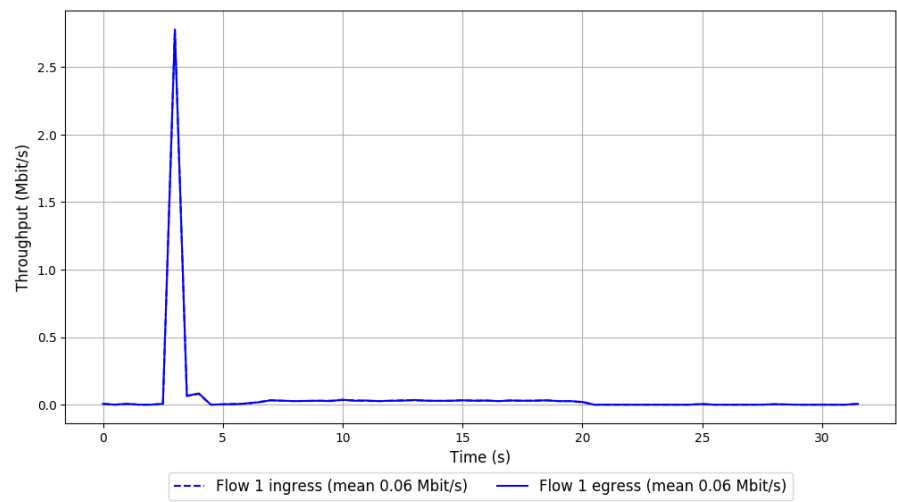
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.801 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-10 15:03:59

End at: 2018-04-10 15:04:29

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.00%

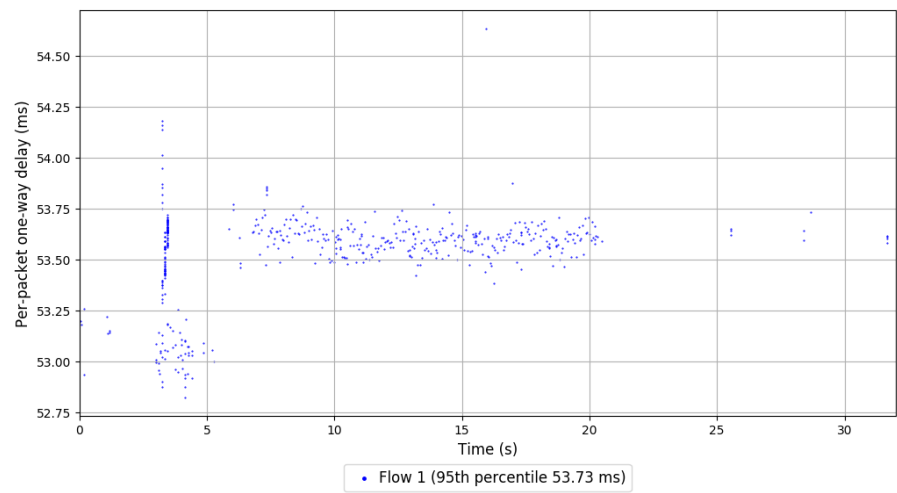
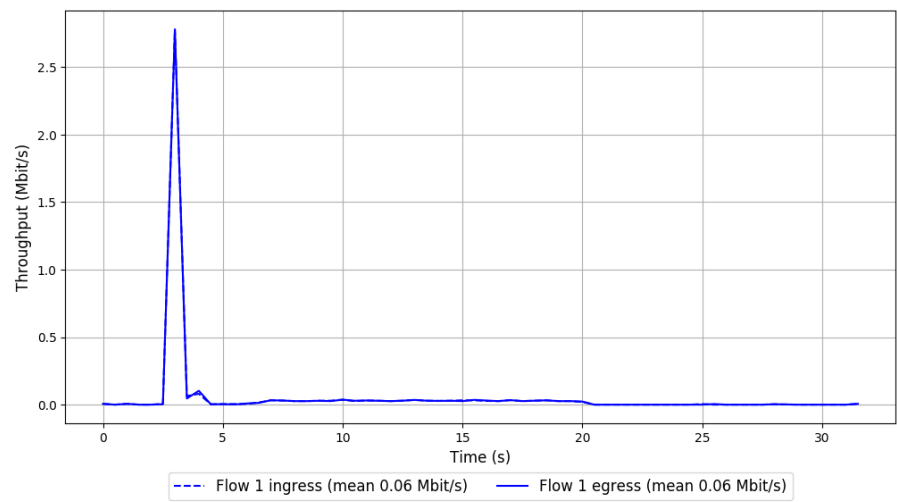
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.731 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-10 15:18:51

End at: 2018-04-10 15:19:21

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.584 ms

Loss rate: 0.00%

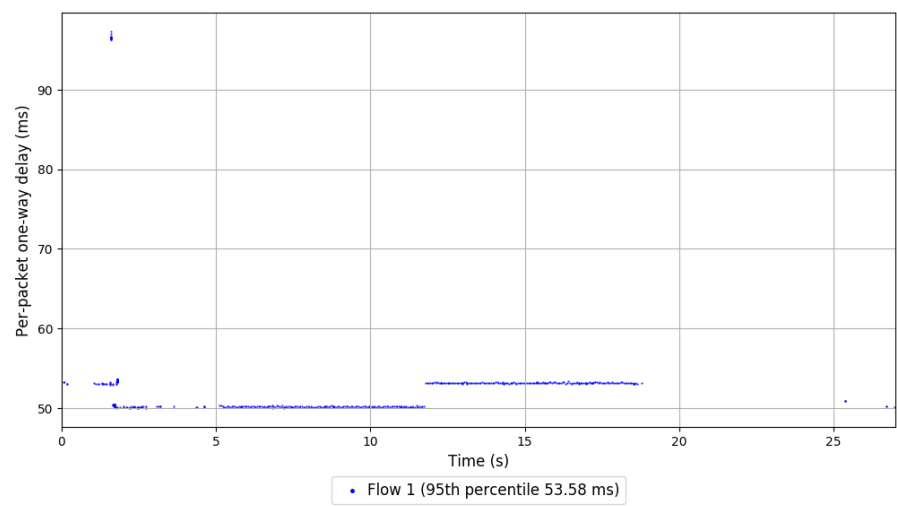
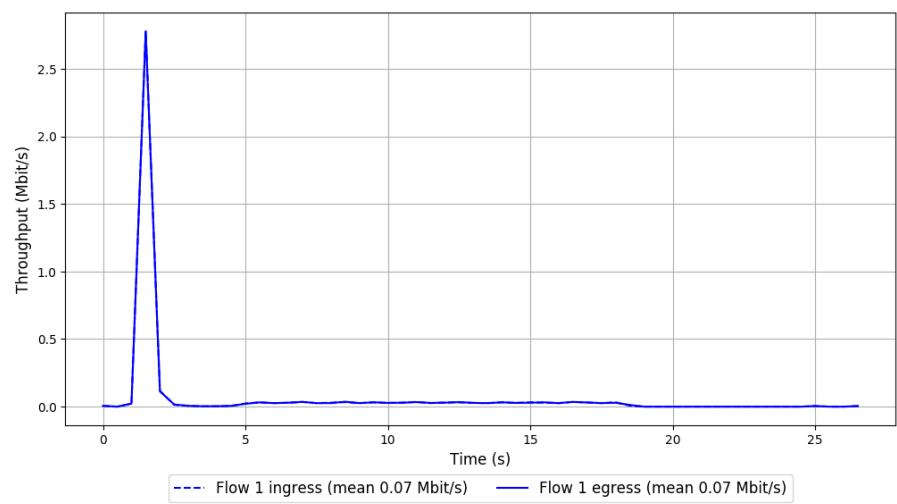
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.584 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 15:33:28

End at: 2018-04-10 15:33:58

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.606 ms

Loss rate: 0.00%

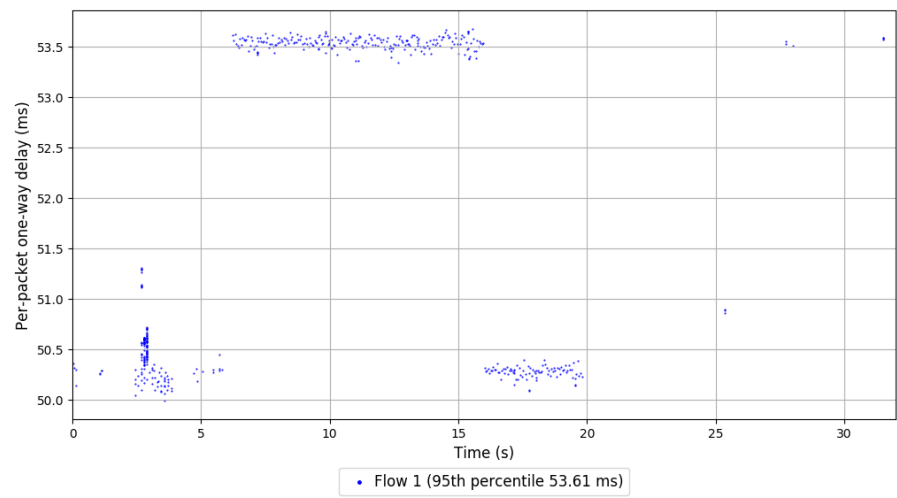
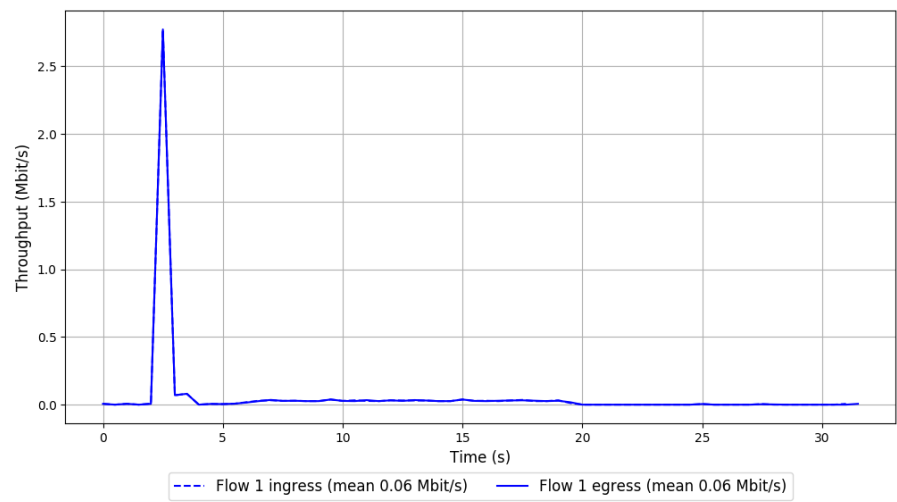
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.606 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-10 15:47:32

End at: 2018-04-10 15:48:02

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.638 ms

Loss rate: 0.00%

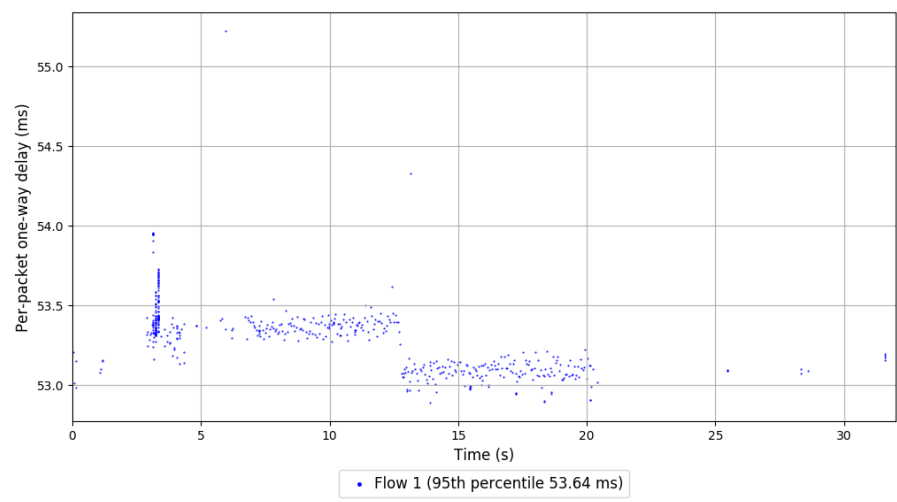
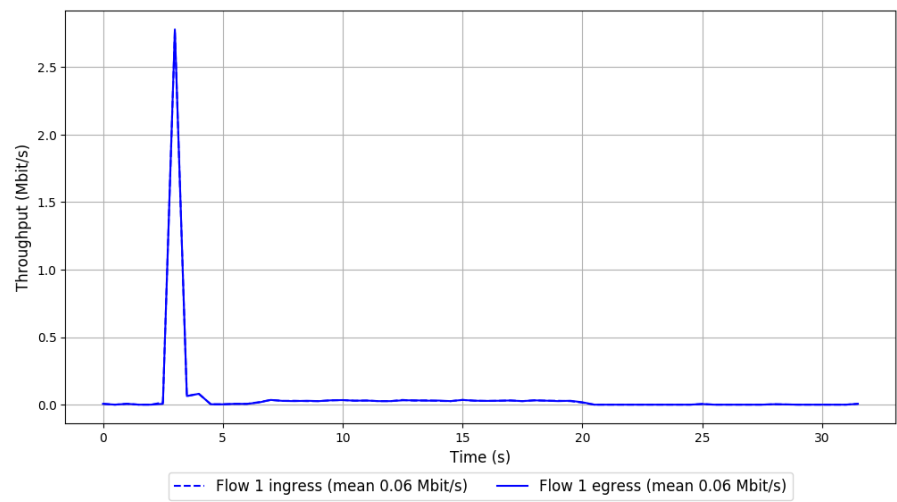
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.638 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-10 16:02:00

End at: 2018-04-10 16:02:30

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.565 ms

Loss rate: 0.00%

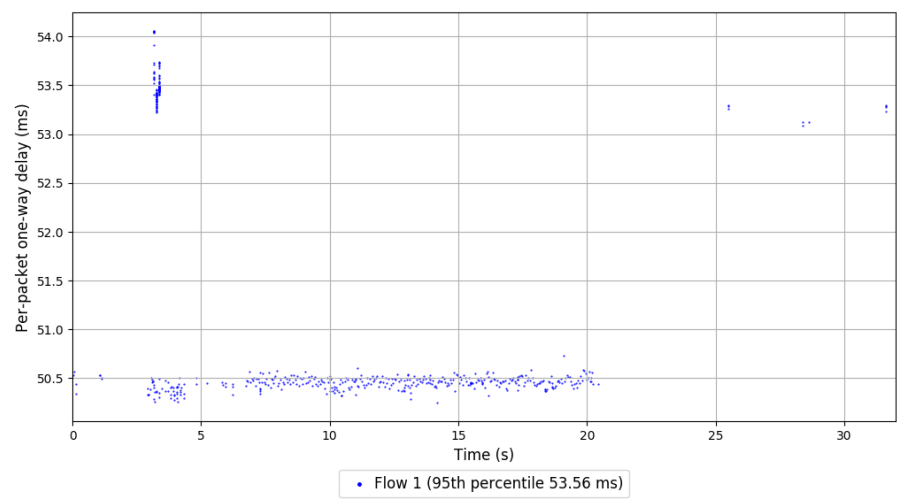
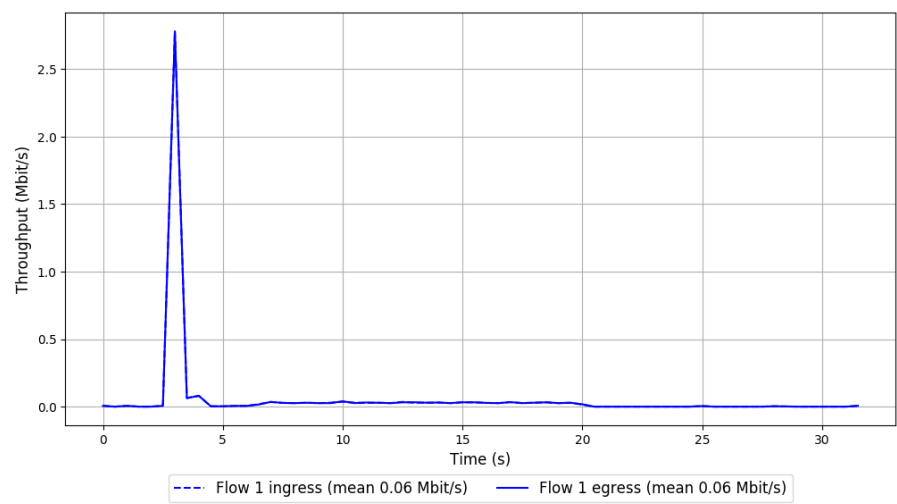
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.565 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-10 16:16:15

End at: 2018-04-10 16:16:45

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.00%

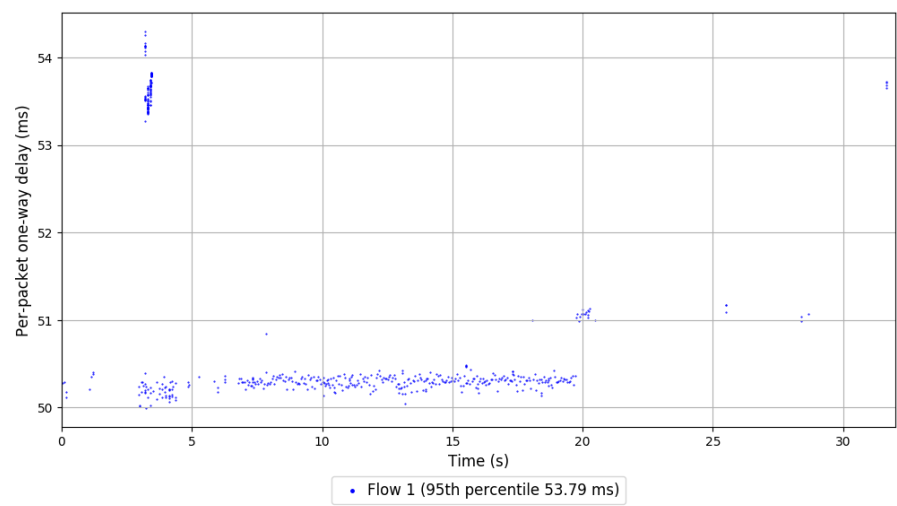
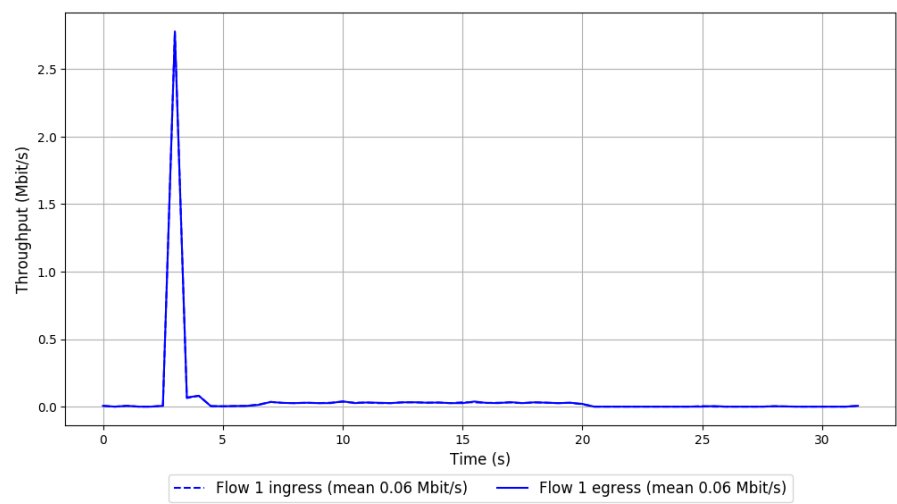
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.793 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-10 14:06:15

End at: 2018-04-10 14:06:45

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.334 ms

Loss rate: 0.00%

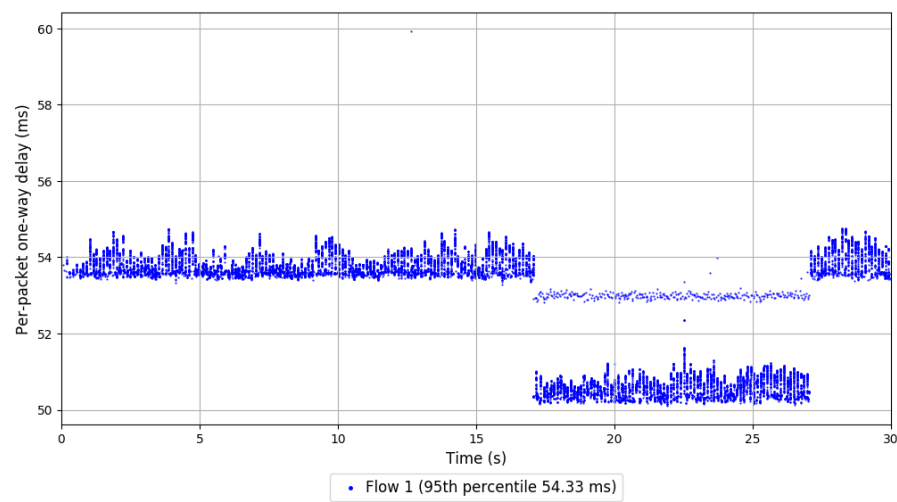
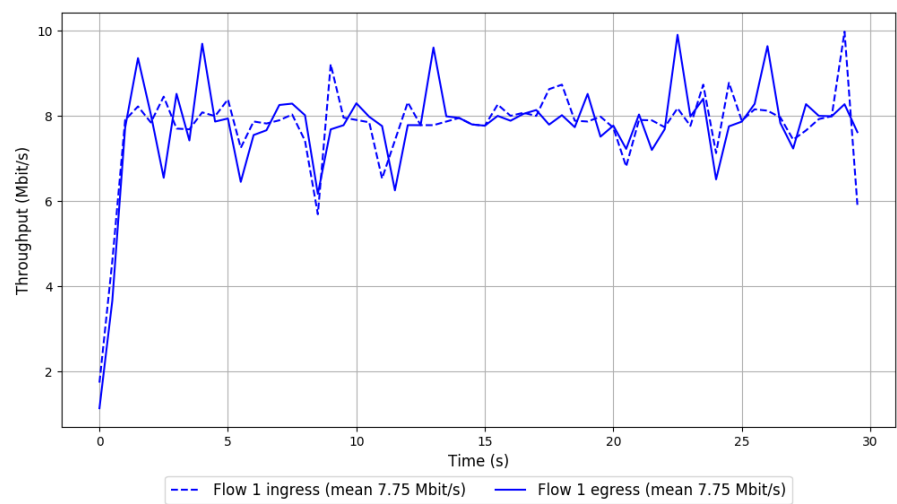
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.334 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-10 14:20:41

End at: 2018-04-10 14:21:11

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.129 ms

Loss rate: 0.00%

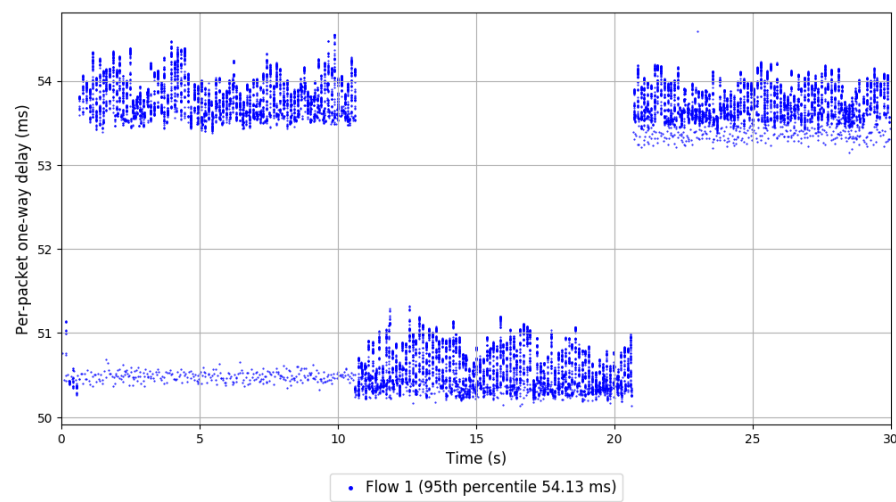
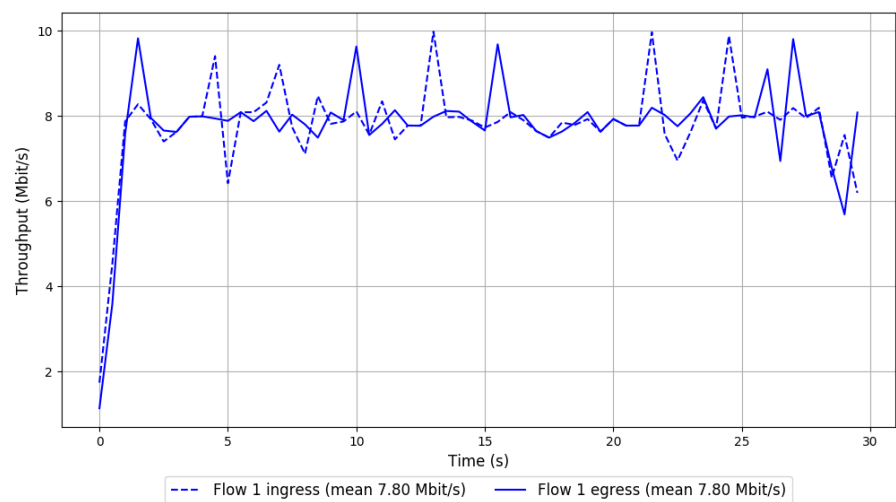
-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 54.129 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-10 14:34:57

End at: 2018-04-10 14:35:27

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.297 ms

Loss rate: 0.00%

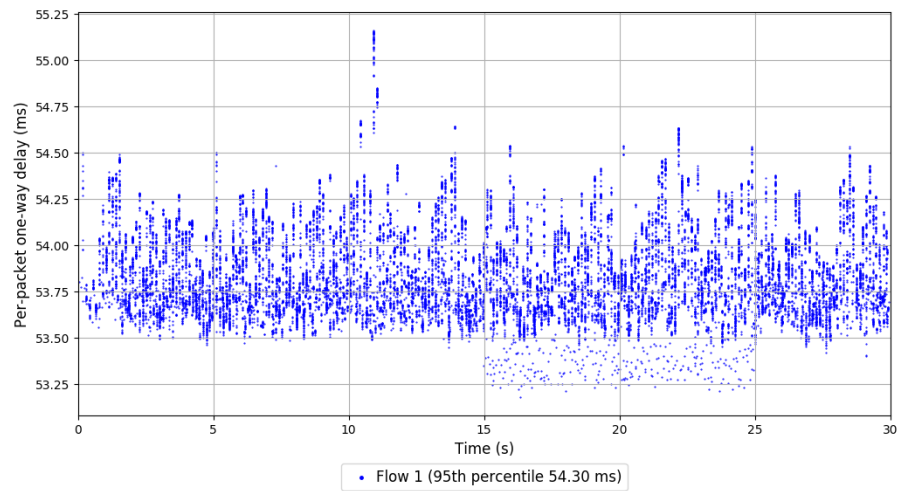
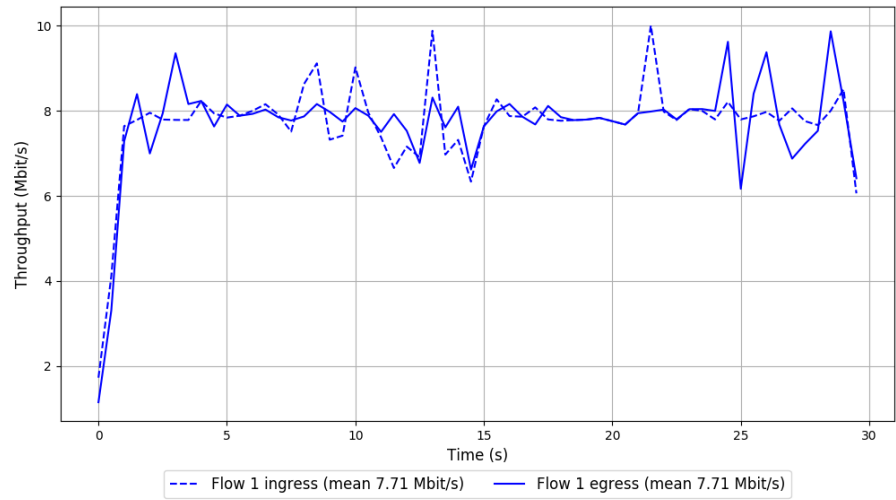
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.297 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-10 14:49:07

End at: 2018-04-10 14:49:37

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.00%

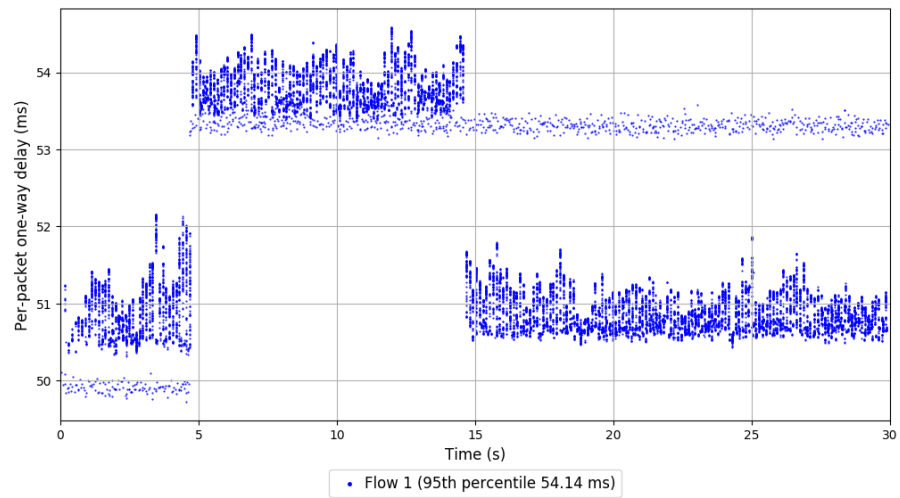
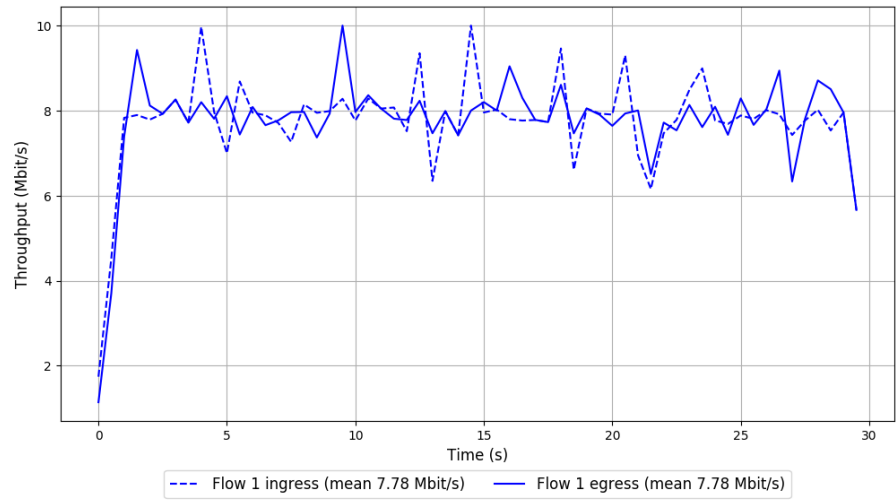
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-10 15:03:22

End at: 2018-04-10 15:03:52

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.436 ms

Loss rate: 0.00%

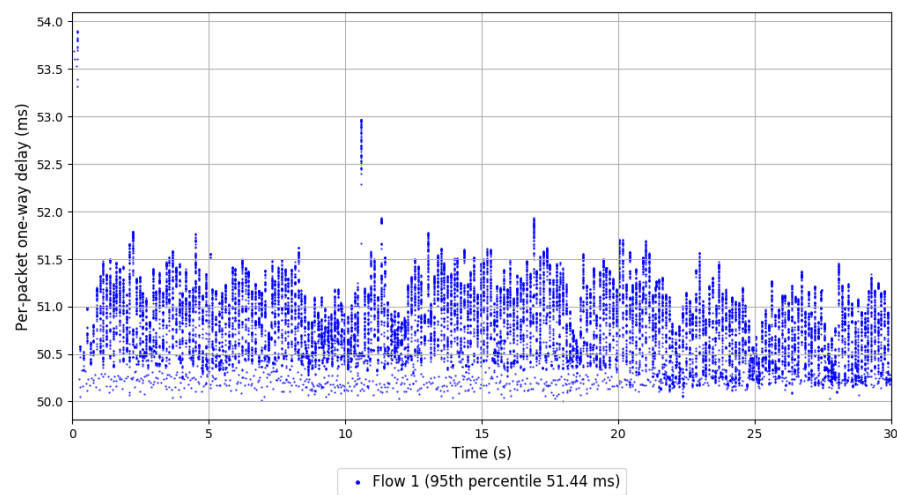
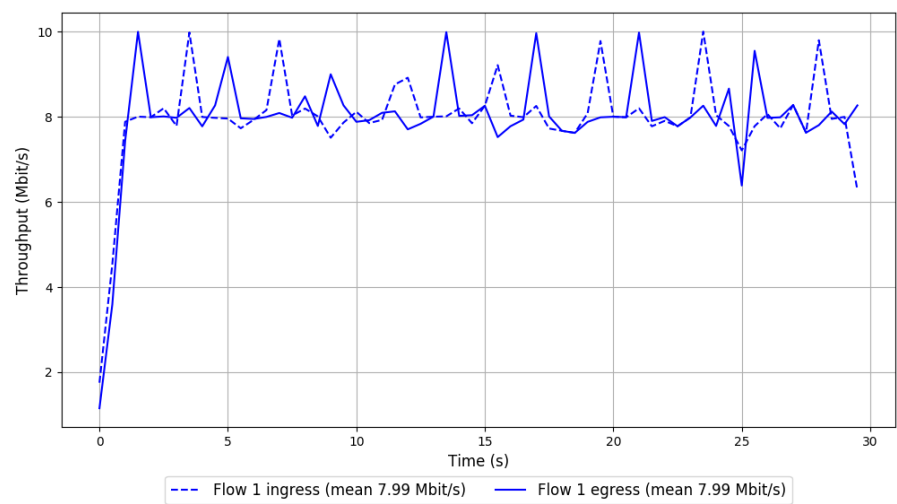
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.436 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-10 15:18:14

End at: 2018-04-10 15:18:44

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.079 ms

Loss rate: 0.00%

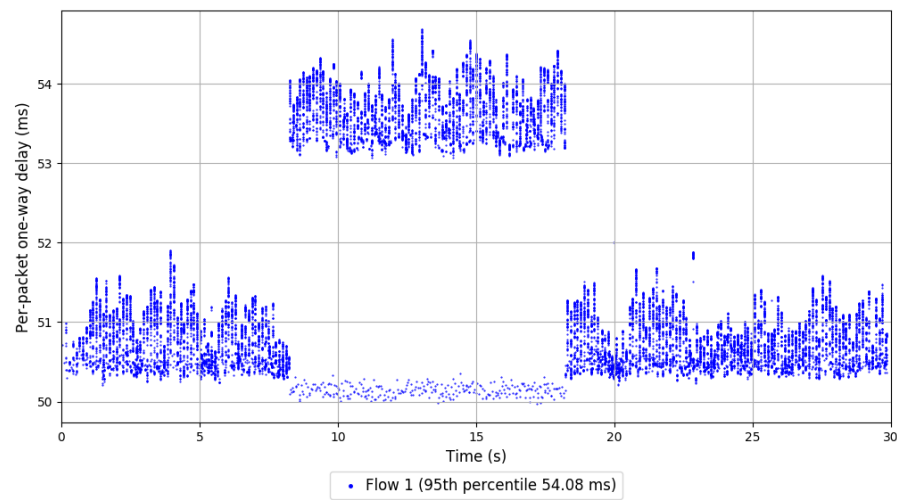
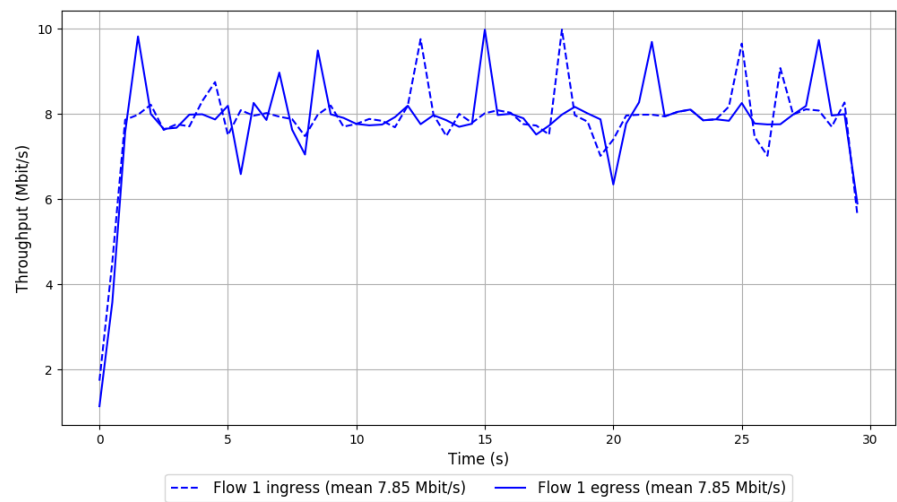
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.079 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-10 15:32:51

End at: 2018-04-10 15:33:21

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 53.966 ms

Loss rate: 0.00%

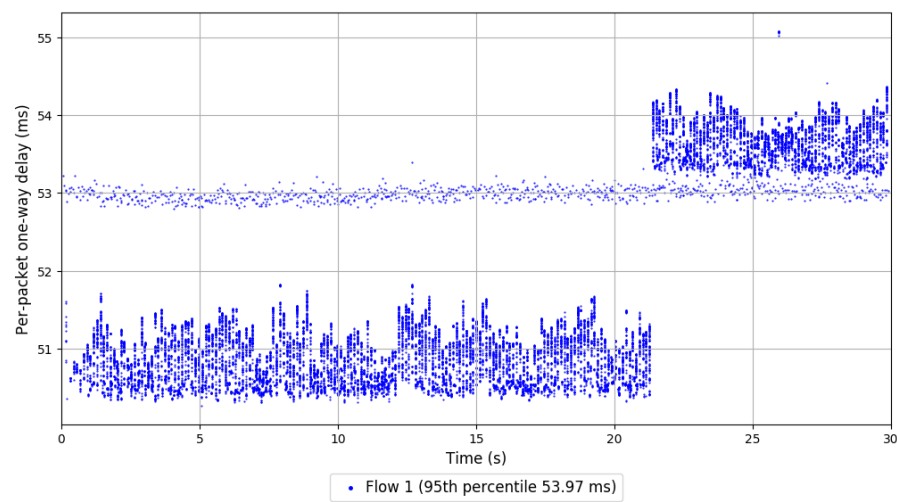
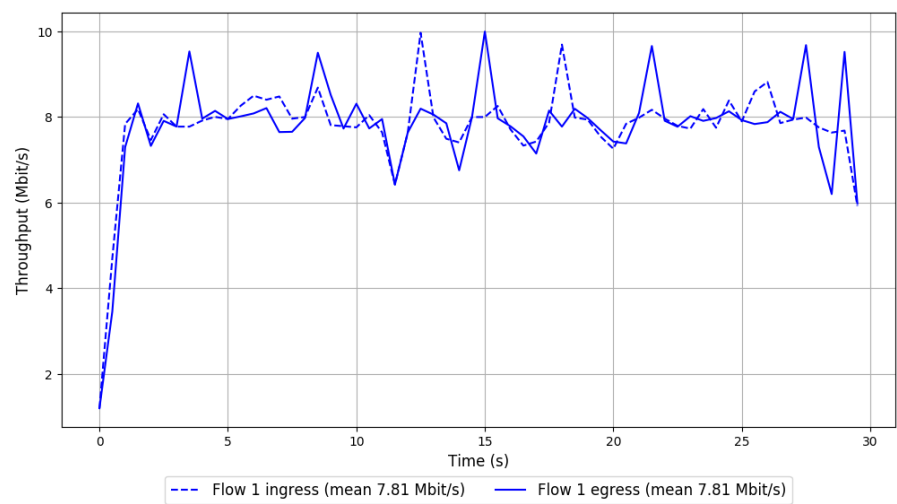
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 53.966 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-10 15:46:54

End at: 2018-04-10 15:47:24

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.739 ms

Loss rate: 0.00%

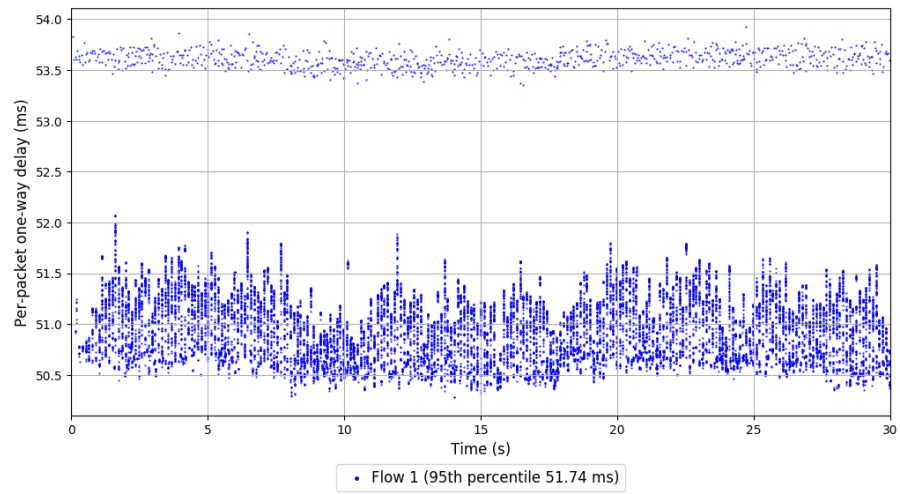
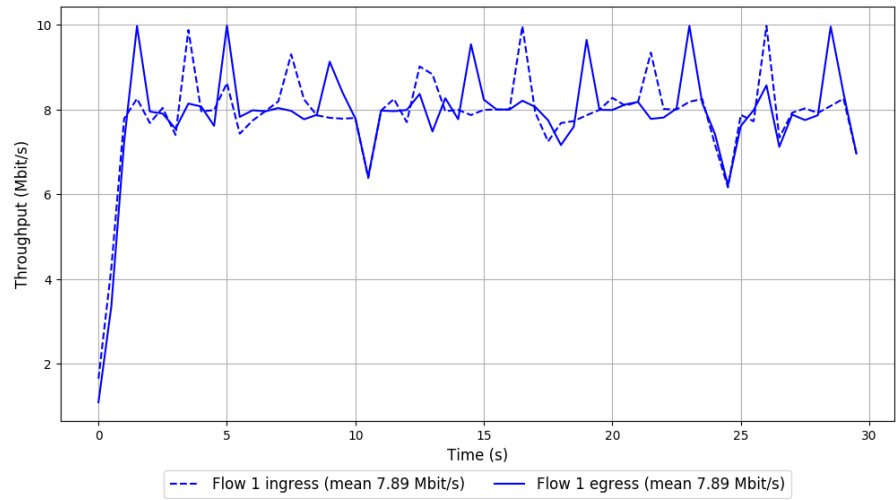
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.739 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-10 16:01:22

End at: 2018-04-10 16:01:53

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.098 ms

Loss rate: 0.00%

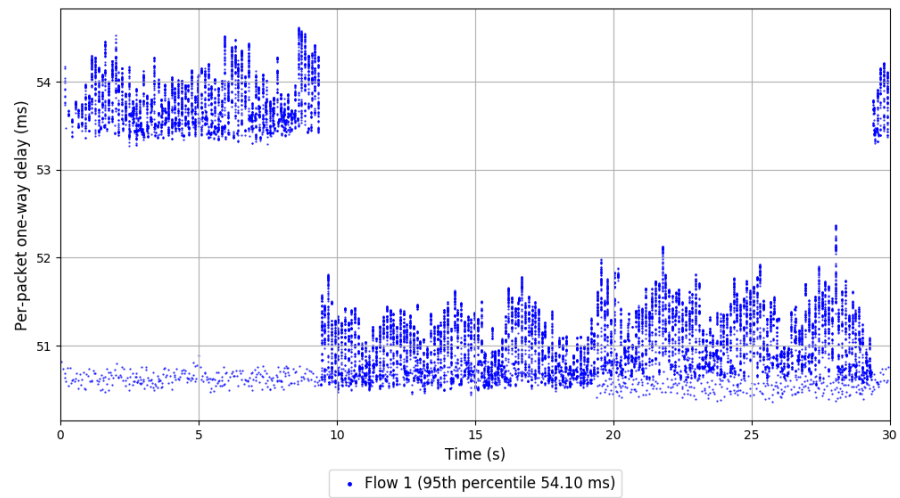
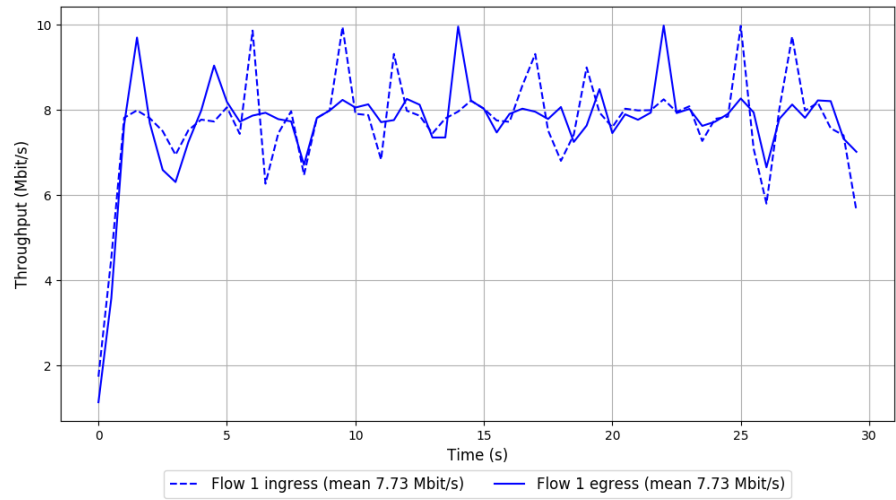
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.098 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-10 16:15:37

End at: 2018-04-10 16:16:07

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.347 ms

Loss rate: 0.00%

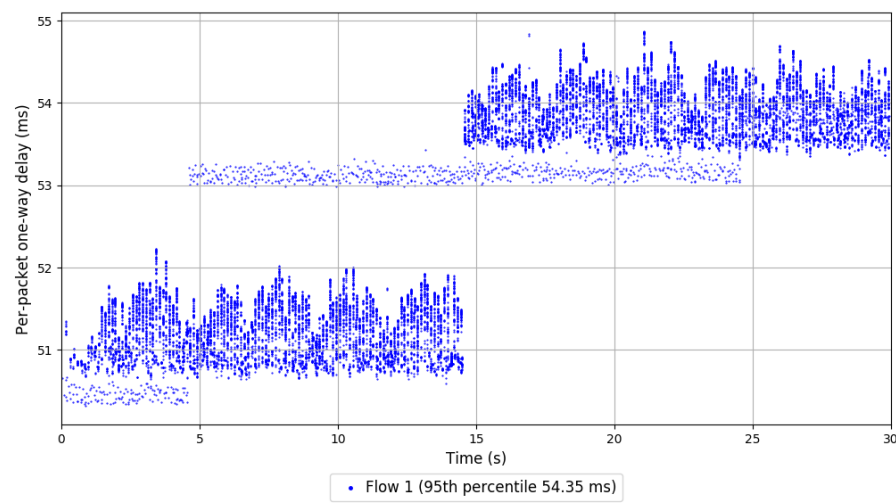
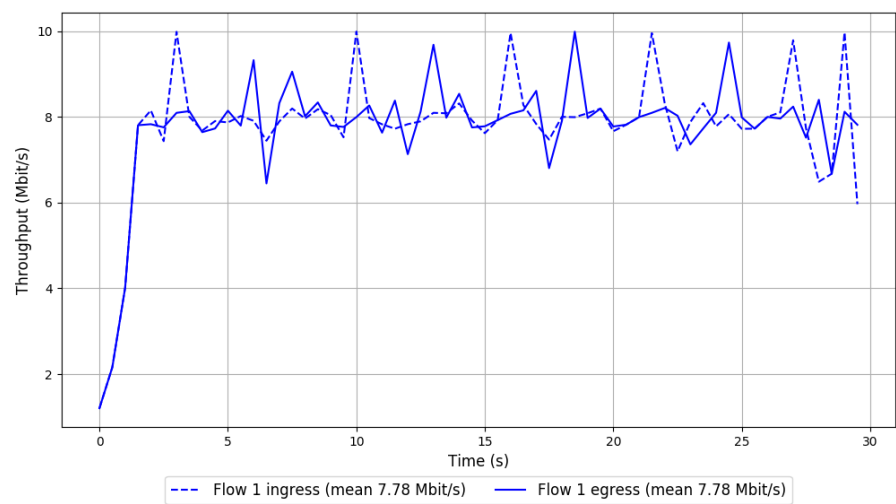
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.347 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

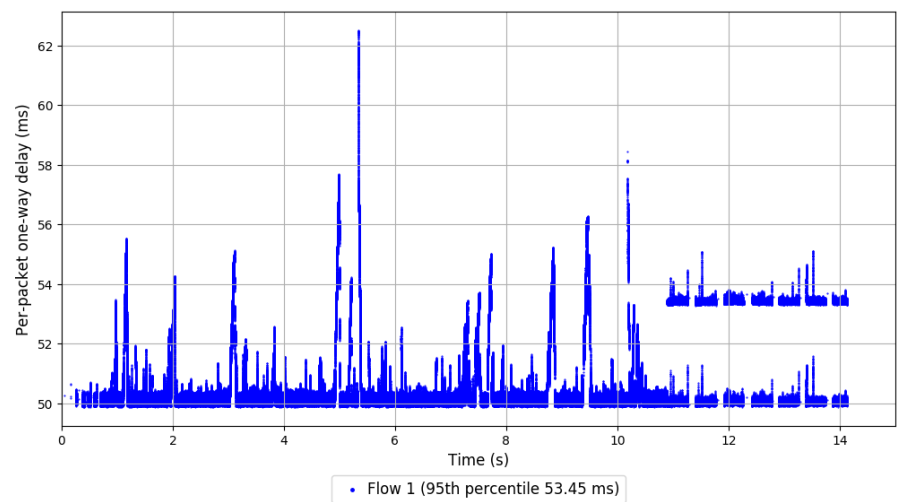
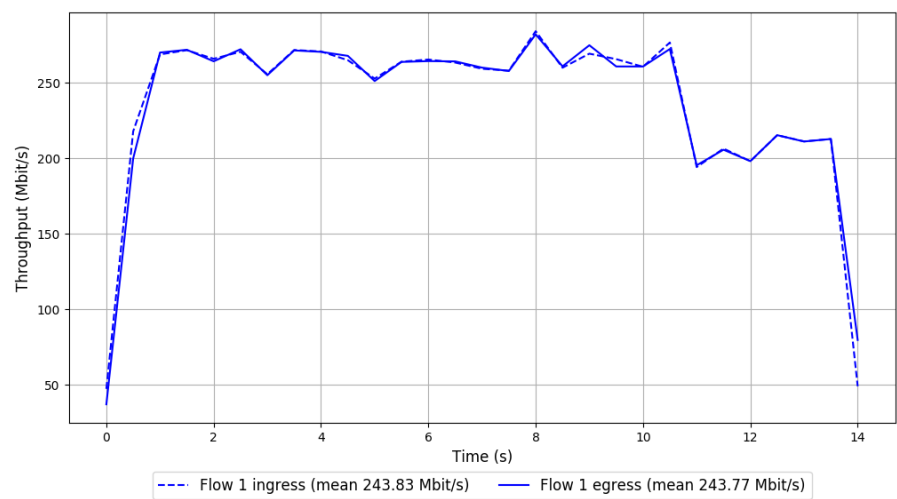


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 14:16:31

End at: 2018-04-10 14:17:01

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

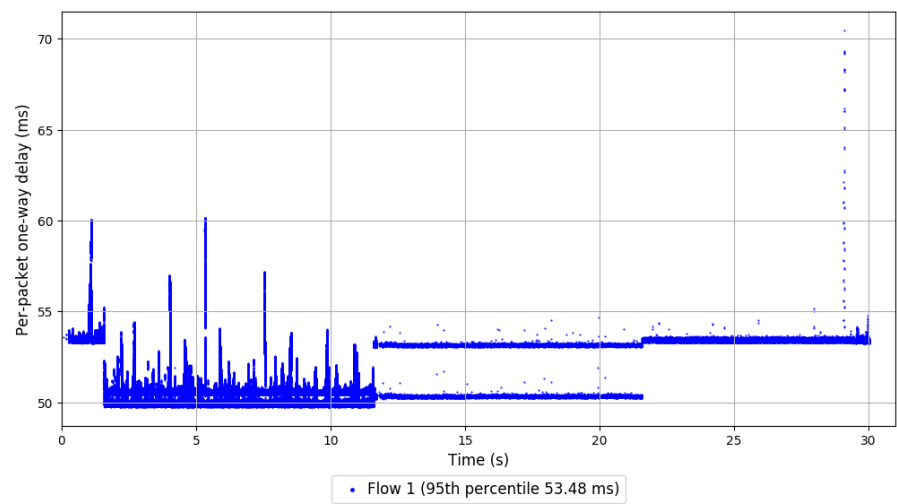
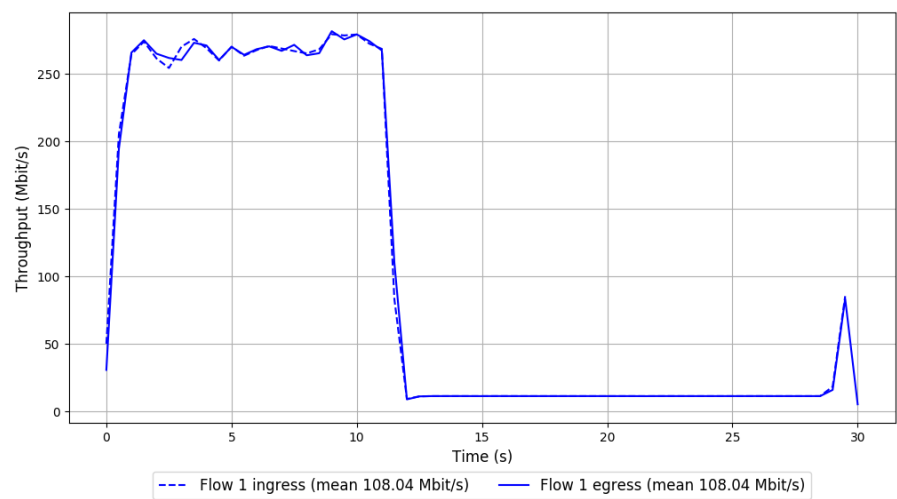


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 14:30:50
End at: 2018-04-10 14:31:20

# Below is generated by plot.py at 2018-04-10 18:30:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 108.04 Mbit/s
95th percentile per-packet one-way delay: 53.485 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 108.04 Mbit/s
95th percentile per-packet one-way delay: 53.485 ms
Loss rate: 0.00%
```

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

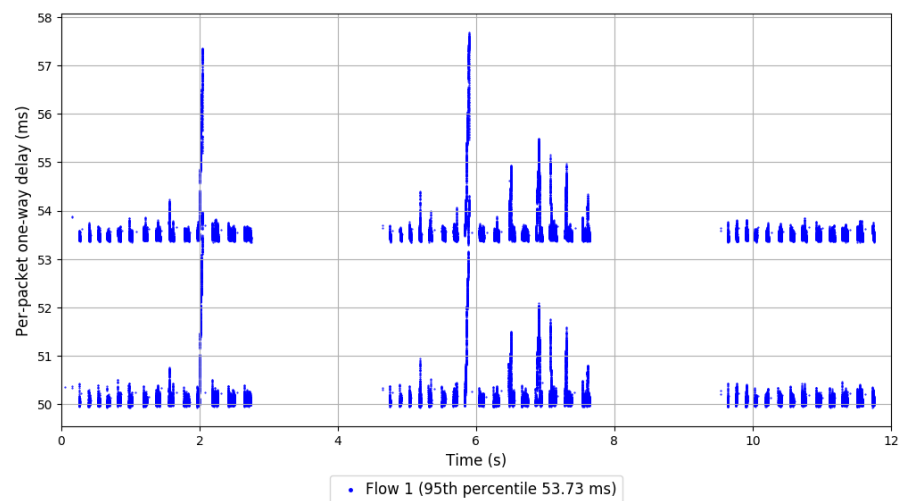
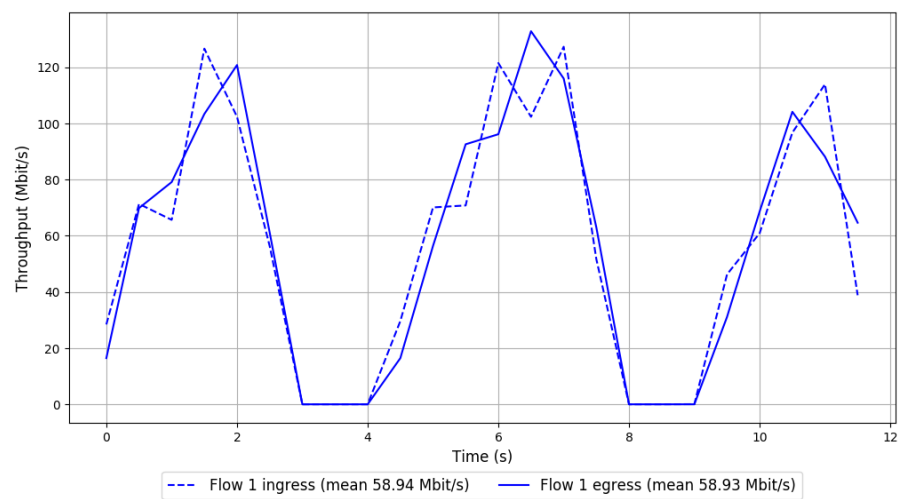


Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 14:45:05

End at: 2018-04-10 14:45:35

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 14:59:18

End at: 2018-04-10 14:59:48

Below is generated by plot.py at 2018-04-10 18:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.31 Mbit/s

95th percentile per-packet one-way delay: 53.398 ms

Loss rate: 0.00%

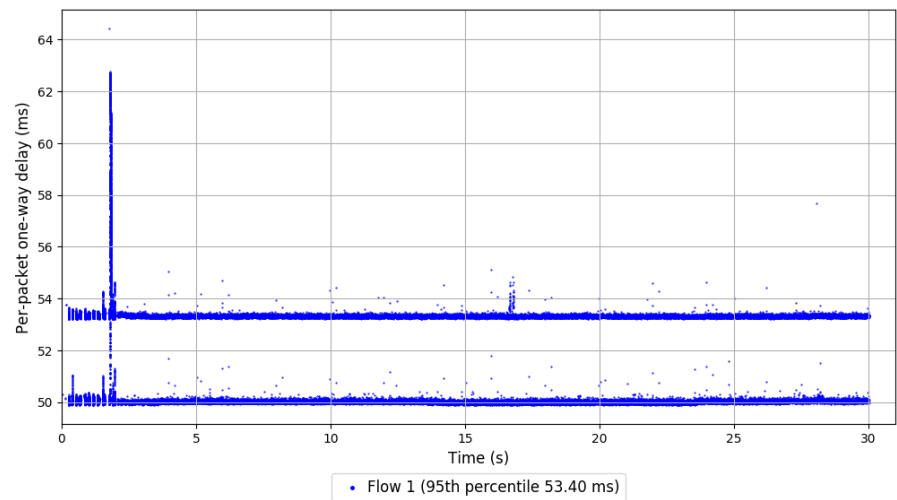
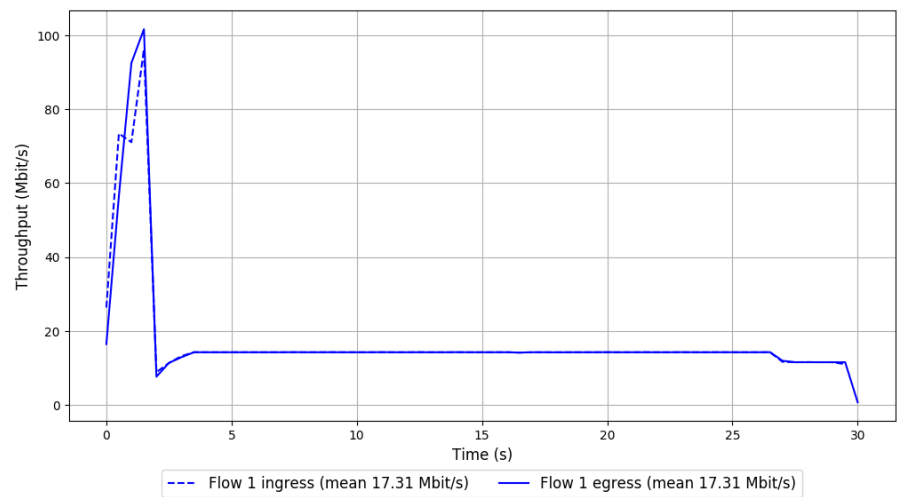
-- Flow 1:

Average throughput: 17.31 Mbit/s

95th percentile per-packet one-way delay: 53.398 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 15:13:54

End at: 2018-04-10 15:14:24

Below is generated by plot.py at 2018-04-10 18:31:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.54 Mbit/s

95th percentile per-packet one-way delay: 53.704 ms

Loss rate: 0.00%

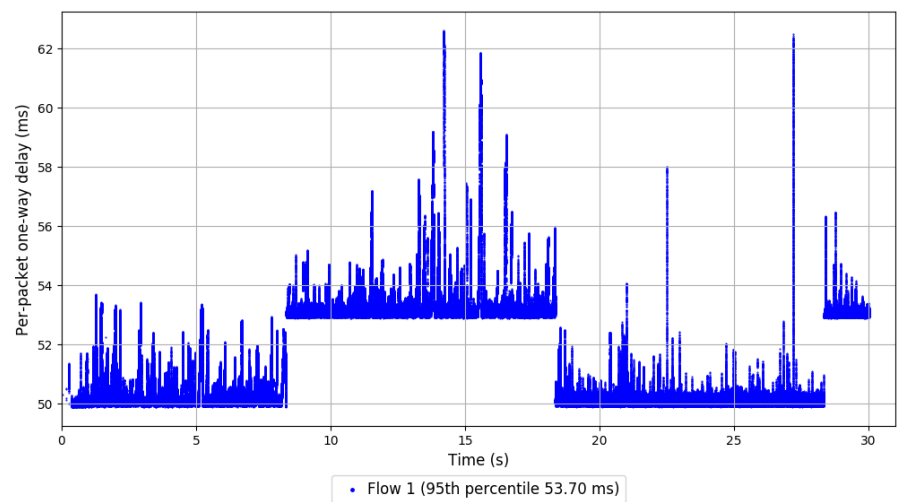
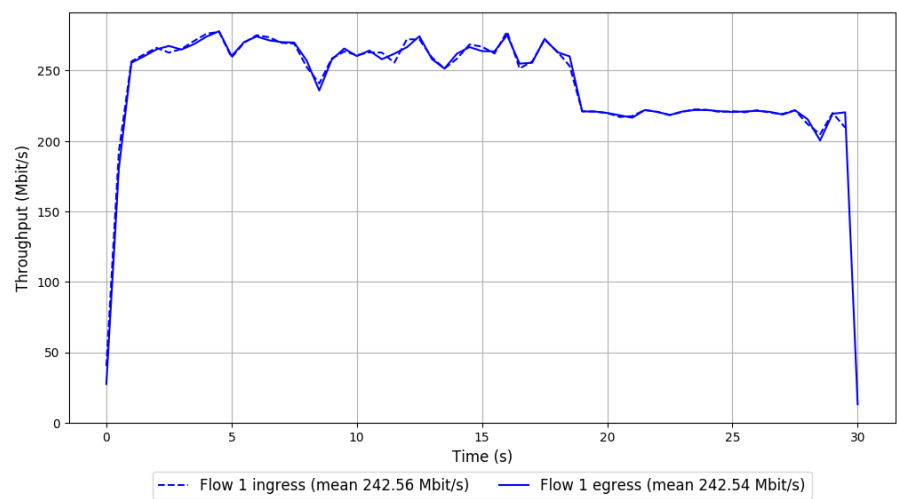
-- Flow 1:

Average throughput: 242.54 Mbit/s

95th percentile per-packet one-way delay: 53.704 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 15:28:27

End at: 2018-04-10 15:28:57

Below is generated by plot.py at 2018-04-10 18:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.02 Mbit/s

95th percentile per-packet one-way delay: 58.144 ms

Loss rate: 0.00%

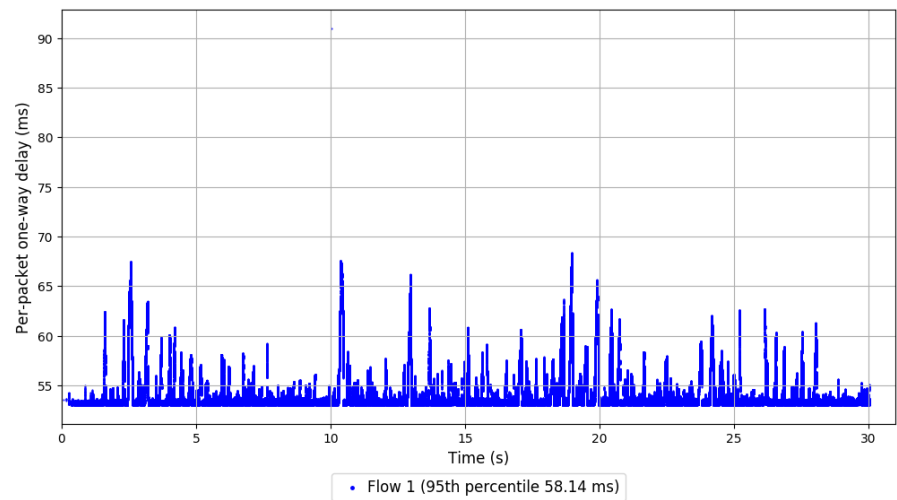
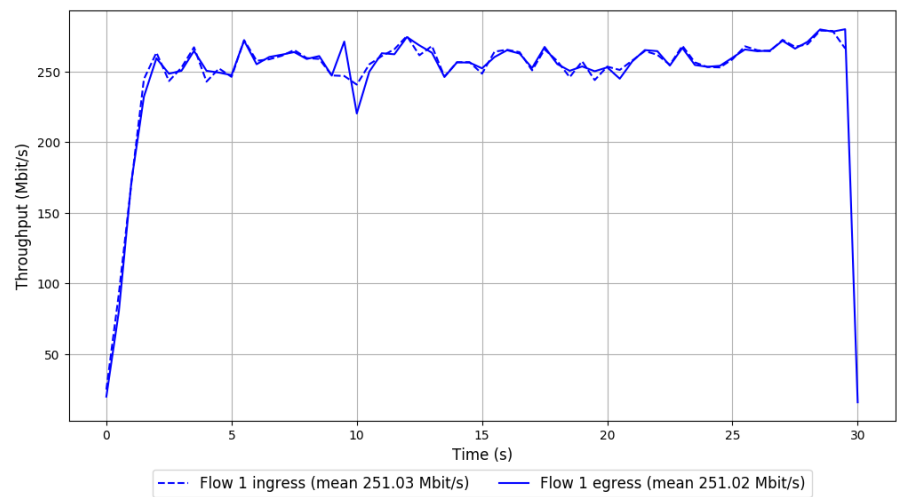
-- Flow 1:

Average throughput: 251.02 Mbit/s

95th percentile per-packet one-way delay: 58.144 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 15:42:54

End at: 2018-04-10 15:43:24

Below is generated by plot.py at 2018-04-10 18:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.00%

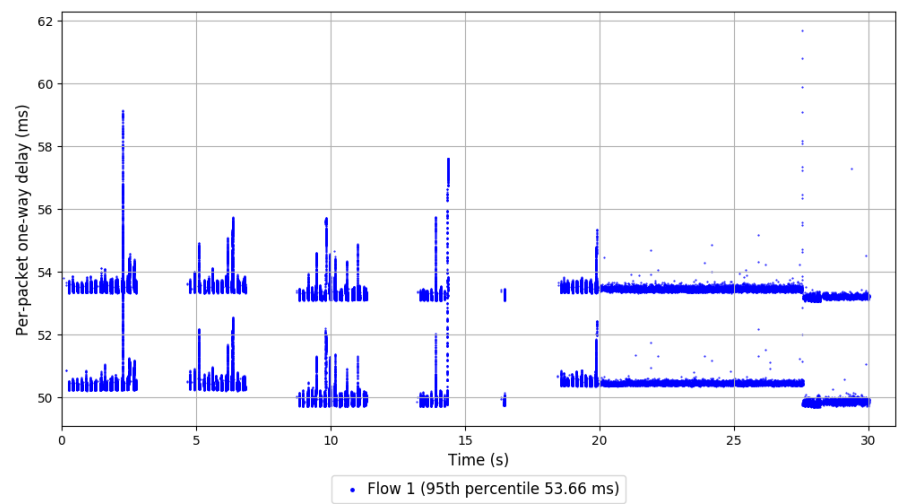
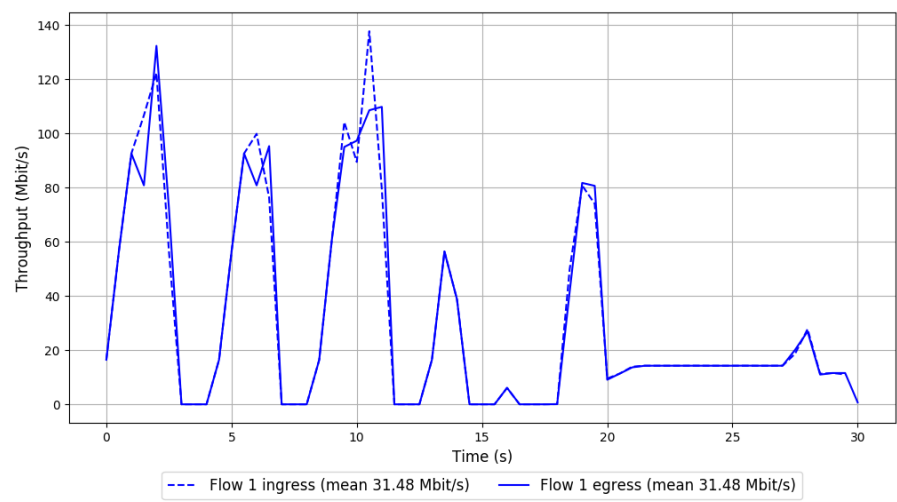
-- Flow 1:

Average throughput: 31.48 Mbit/s

95th percentile per-packet one-way delay: 53.657 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-10 15:57:04

End at: 2018-04-10 15:57:34

Below is generated by plot.py at 2018-04-10 18:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.92 Mbit/s

95th percentile per-packet one-way delay: 59.842 ms

Loss rate: 0.00%

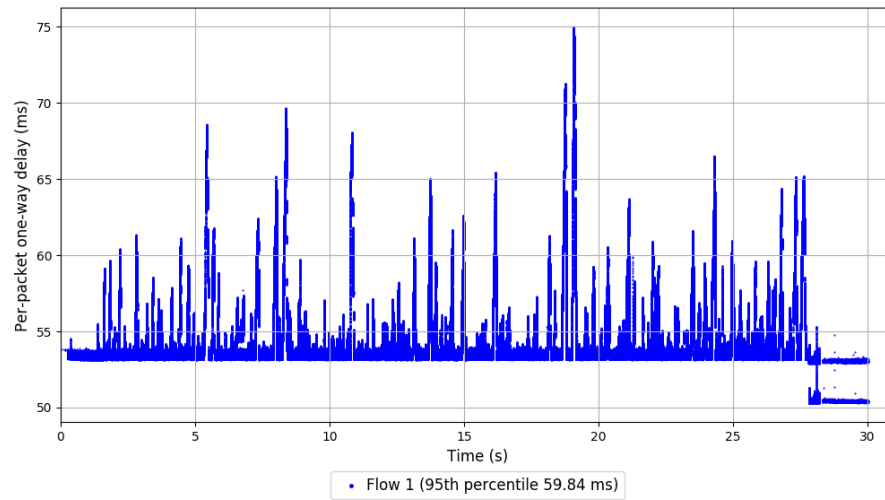
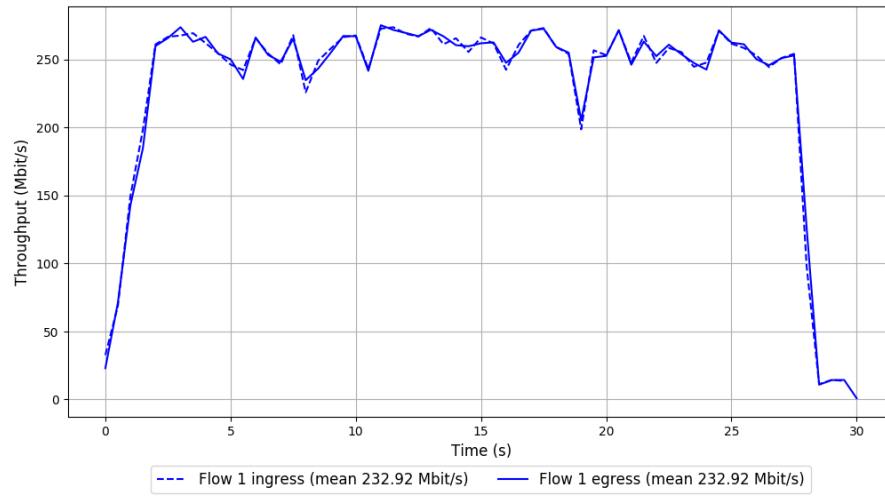
-- Flow 1:

Average throughput: 232.92 Mbit/s

95th percentile per-packet one-way delay: 59.842 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-10 16:11:31

End at: 2018-04-10 16:12:02

Below is generated by plot.py at 2018-04-10 18:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.55 Mbit/s

95th percentile per-packet one-way delay: 53.306 ms

Loss rate: 0.03%

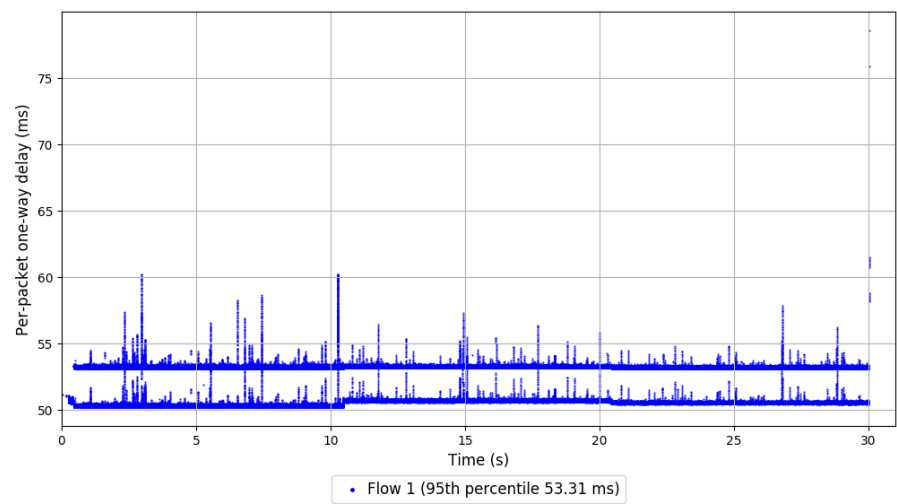
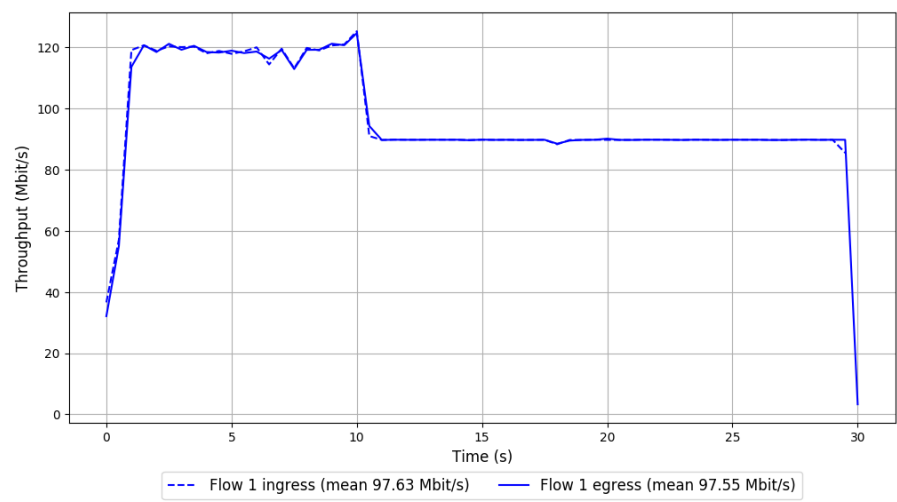
-- Flow 1:

Average throughput: 97.55 Mbit/s

95th percentile per-packet one-way delay: 53.306 ms

Loss rate: 0.03%

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

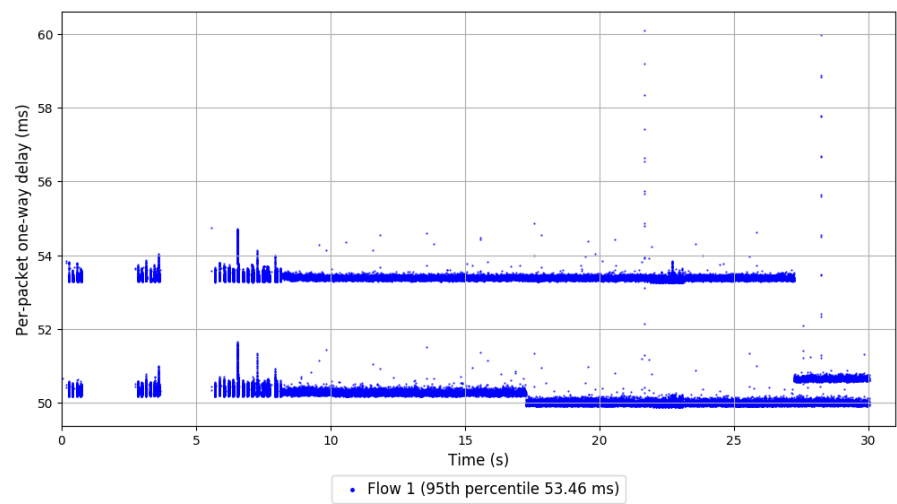
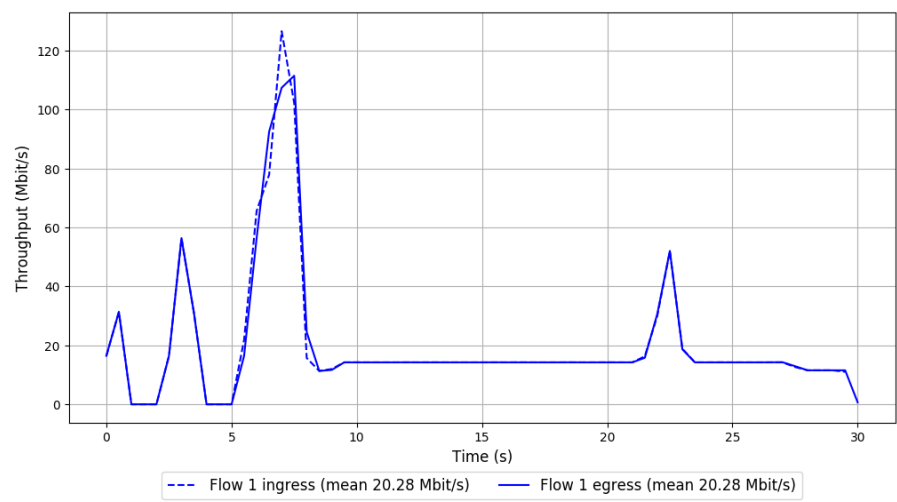


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-10 16:25:45
End at: 2018-04-10 16:26:15

# Below is generated by plot.py at 2018-04-10 18:31:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.28 Mbit/s
95th percentile per-packet one-way delay: 53.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.28 Mbit/s
95th percentile per-packet one-way delay: 53.457 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 14:13:51

End at: 2018-04-10 14:14:21

Below is generated by plot.py at 2018-04-10 18:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.83 Mbit/s

95th percentile per-packet one-way delay: 54.557 ms

Loss rate: 0.00%

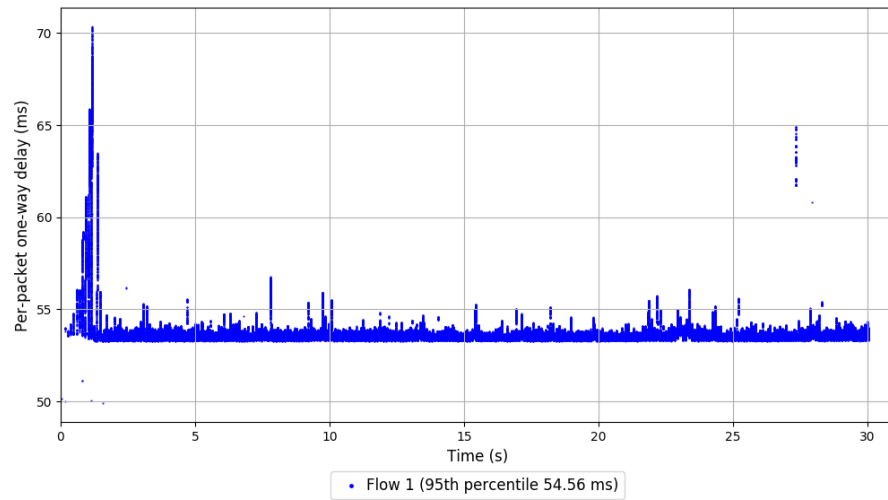
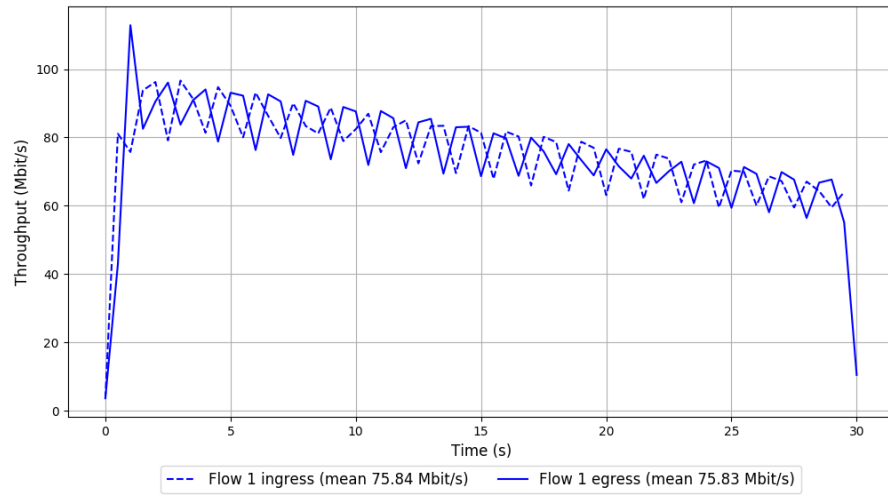
-- Flow 1:

Average throughput: 75.83 Mbit/s

95th percentile per-packet one-way delay: 54.557 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 14:28:09

End at: 2018-04-10 14:28:39

Below is generated by plot.py at 2018-04-10 18:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 54.037 ms

Loss rate: 0.00%

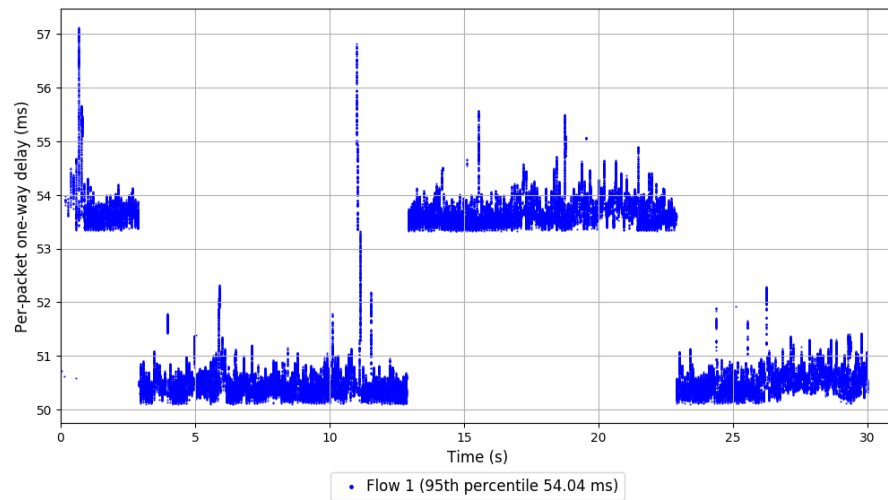
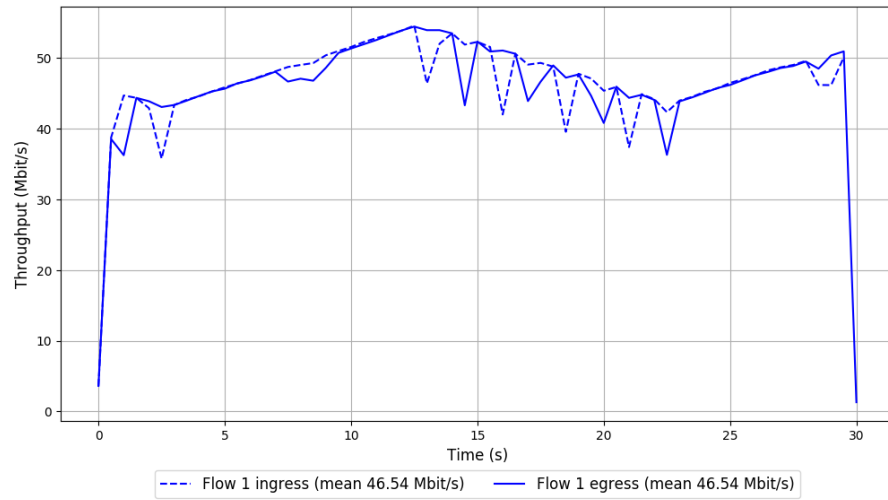
-- Flow 1:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 54.037 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 14:42:27

End at: 2018-04-10 14:42:57

Below is generated by plot.py at 2018-04-10 18:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.10 Mbit/s

95th percentile per-packet one-way delay: 54.214 ms

Loss rate: 0.00%

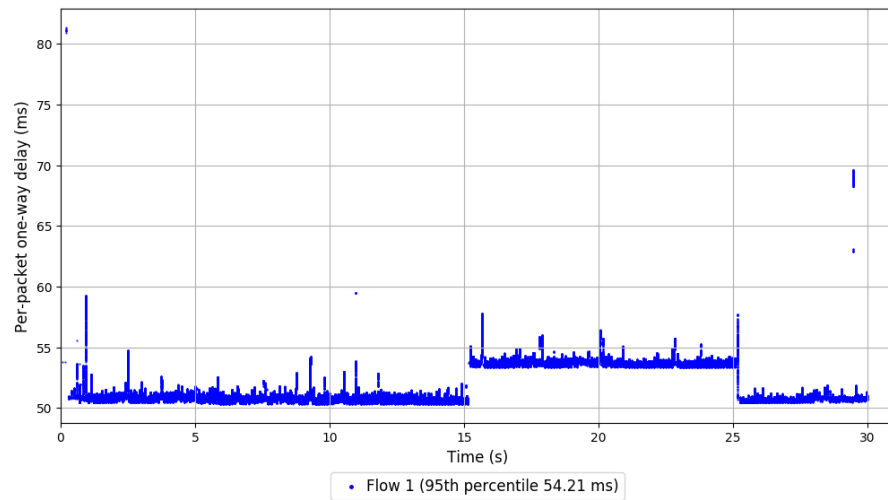
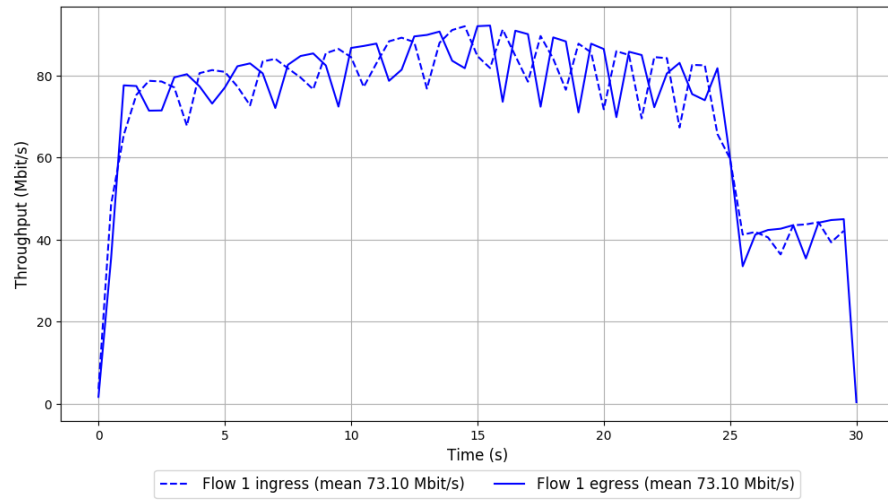
-- Flow 1:

Average throughput: 73.10 Mbit/s

95th percentile per-packet one-way delay: 54.214 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 14:56:40

End at: 2018-04-10 14:57:10

Below is generated by plot.py at 2018-04-10 18:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.57 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 0.00%

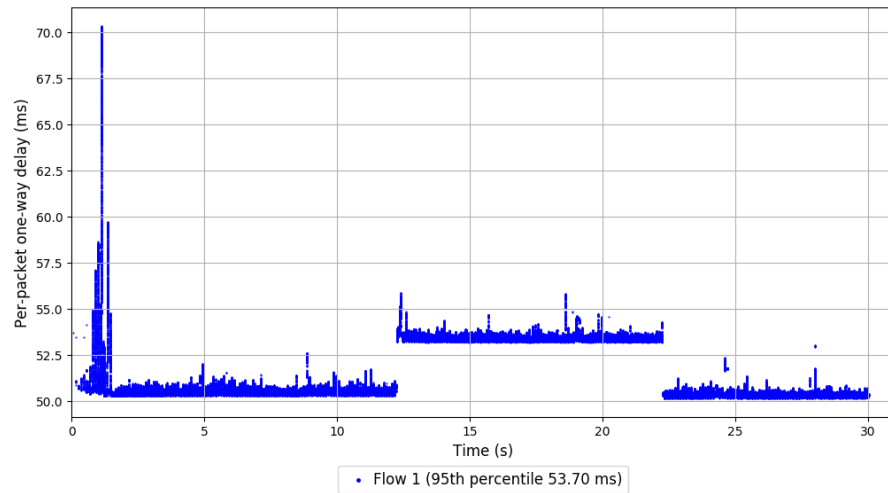
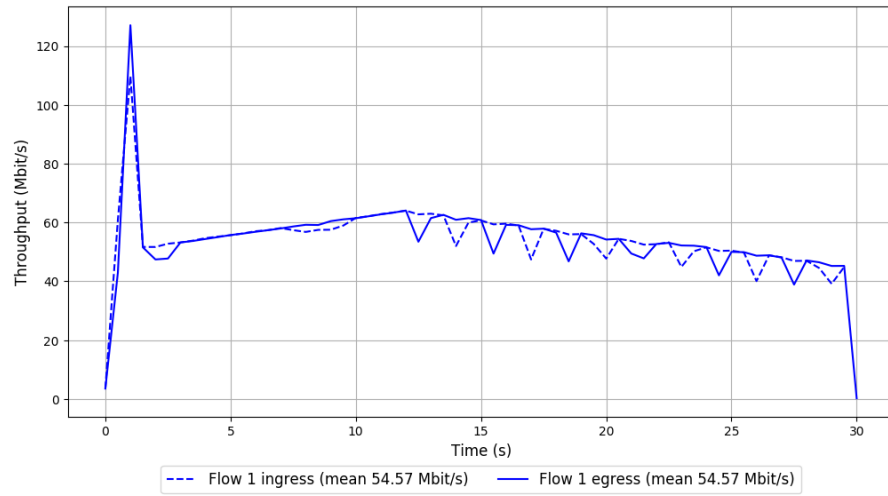
-- Flow 1:

Average throughput: 54.57 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 15:11:17

End at: 2018-04-10 15:11:47

Below is generated by plot.py at 2018-04-10 18:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.43 Mbit/s

95th percentile per-packet one-way delay: 54.169 ms

Loss rate: 0.00%

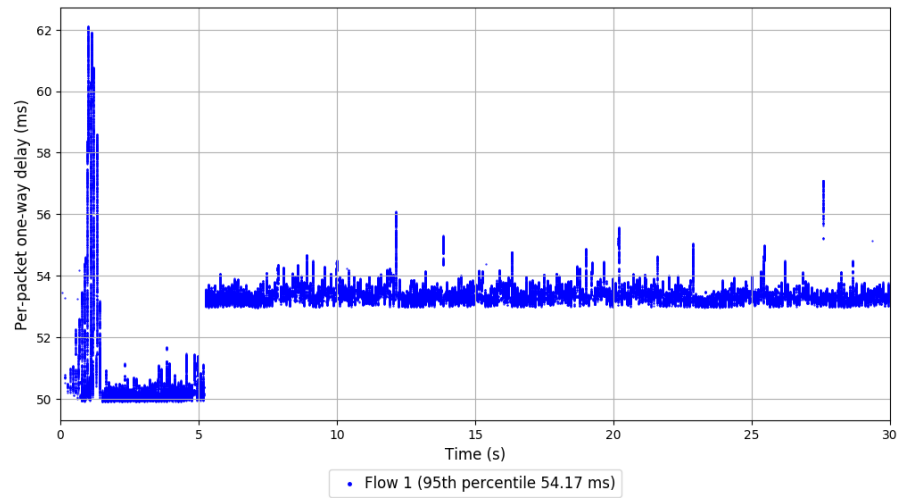
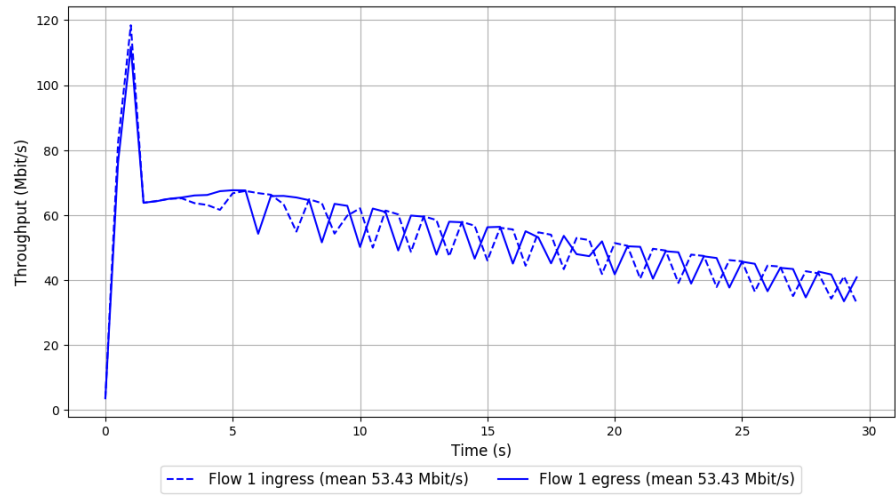
-- Flow 1:

Average throughput: 53.43 Mbit/s

95th percentile per-packet one-way delay: 54.169 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 15:25:48

End at: 2018-04-10 15:26:18

Below is generated by plot.py at 2018-04-10 18:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 0.00%

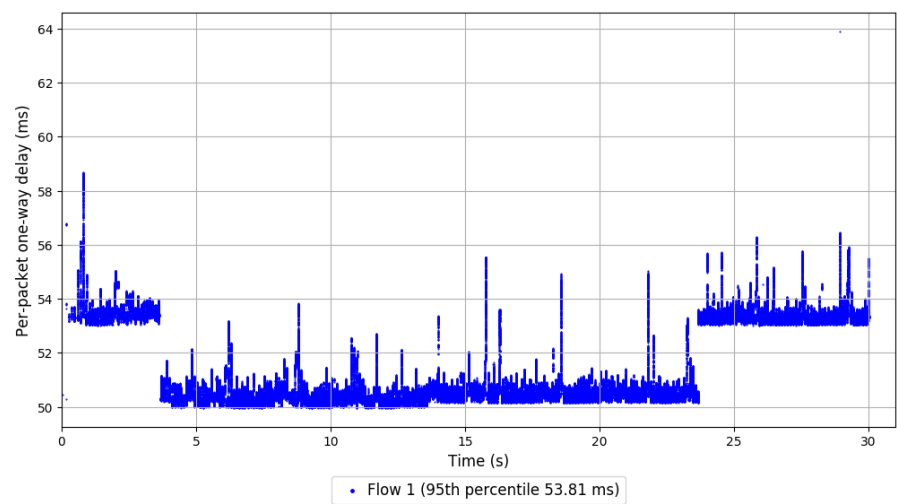
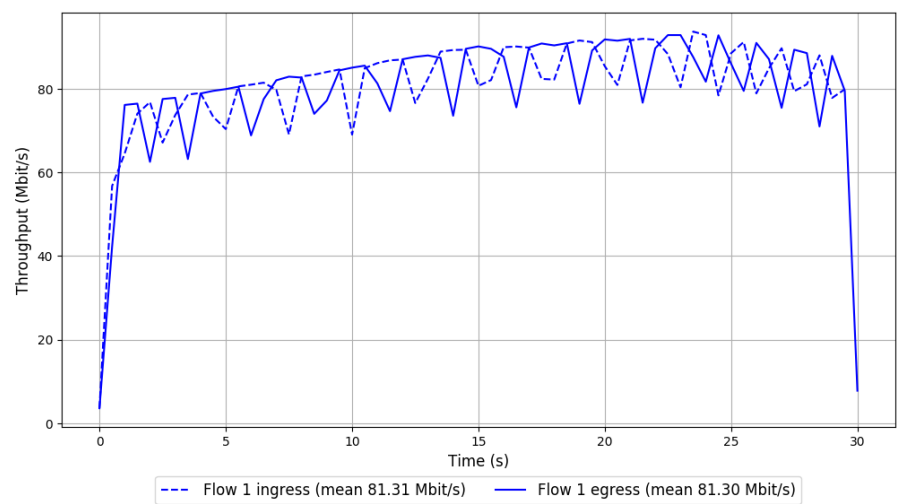
-- Flow 1:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 15:40:18

End at: 2018-04-10 15:40:48

Below is generated by plot.py at 2018-04-10 18:31:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.79 Mbit/s

95th percentile per-packet one-way delay: 54.373 ms

Loss rate: 0.00%

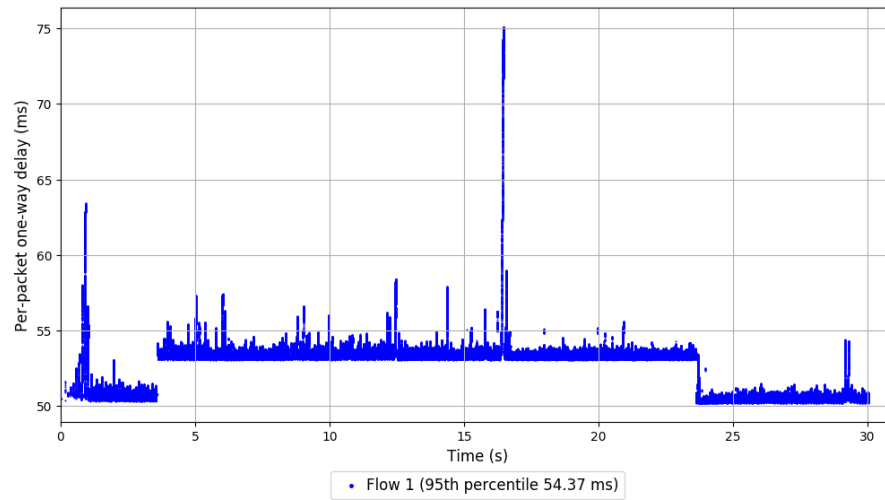
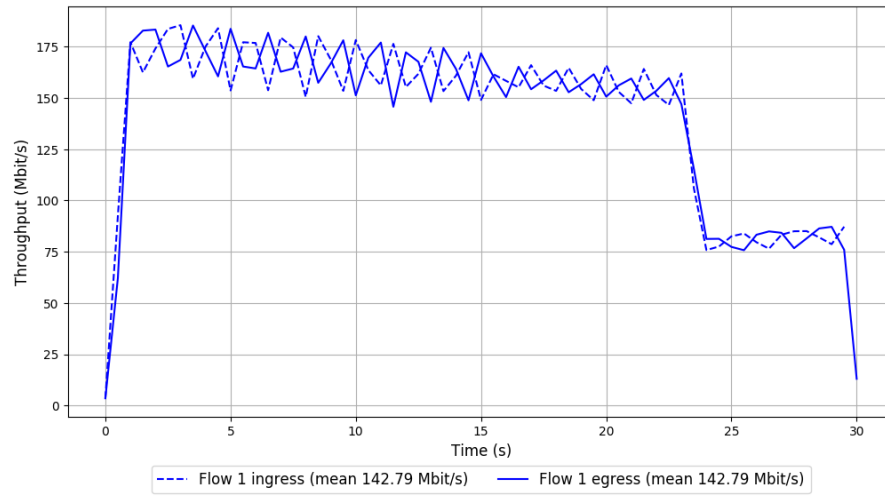
-- Flow 1:

Average throughput: 142.79 Mbit/s

95th percentile per-packet one-way delay: 54.373 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-10 15:54:23

End at: 2018-04-10 15:54:53

Below is generated by plot.py at 2018-04-10 18:31:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.79 Mbit/s

95th percentile per-packet one-way delay: 61.033 ms

Loss rate: 0.00%

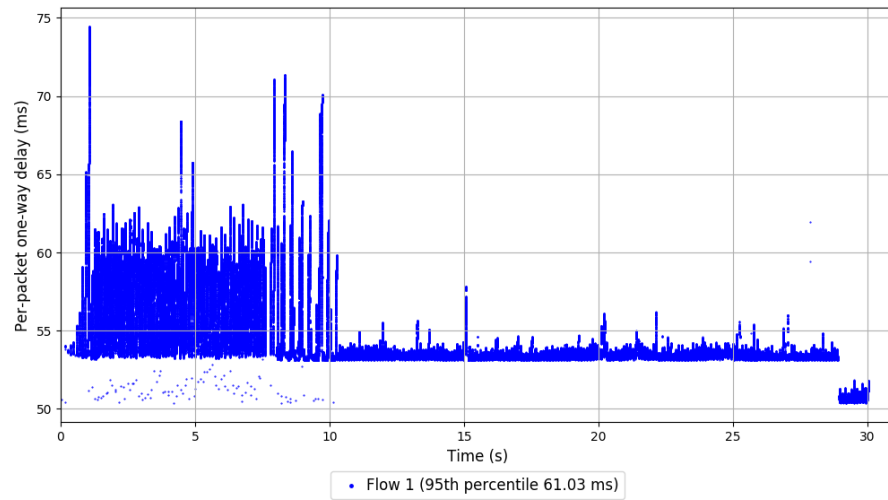
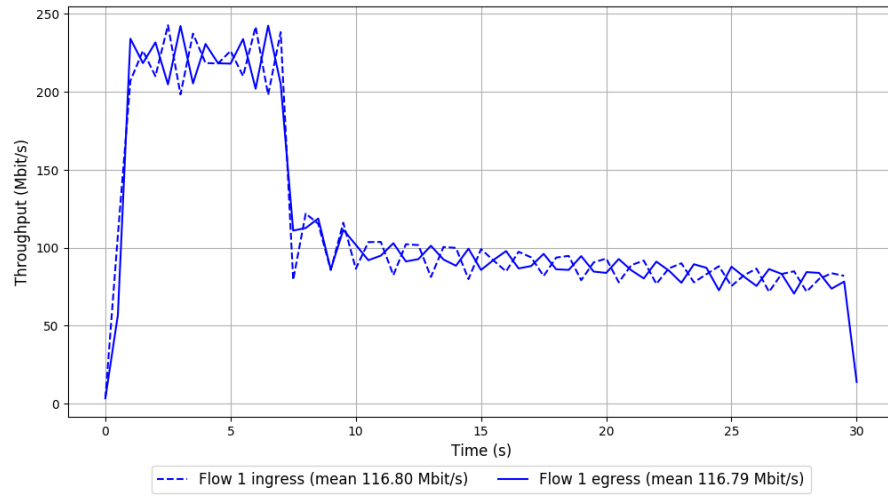
-- Flow 1:

Average throughput: 116.79 Mbit/s

95th percentile per-packet one-way delay: 61.033 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-10 16:08:53

End at: 2018-04-10 16:09:23

Below is generated by plot.py at 2018-04-10 18:31:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 53.160 ms

Loss rate: 0.00%

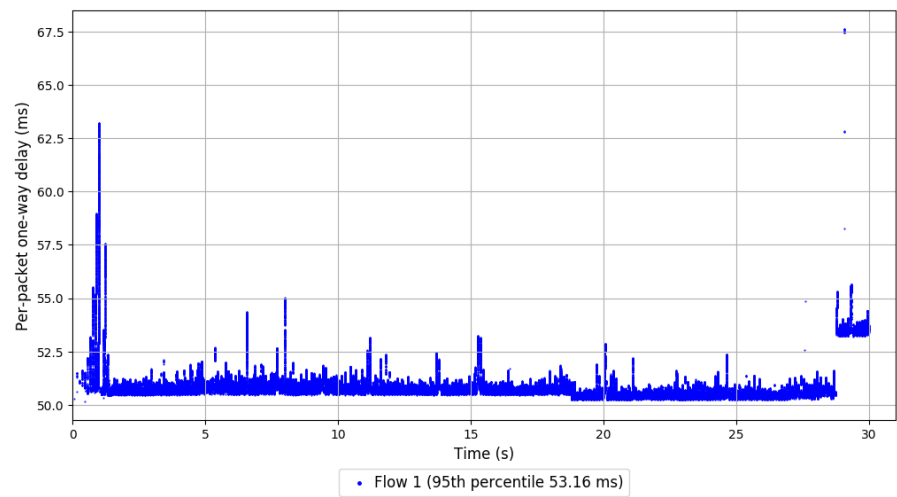
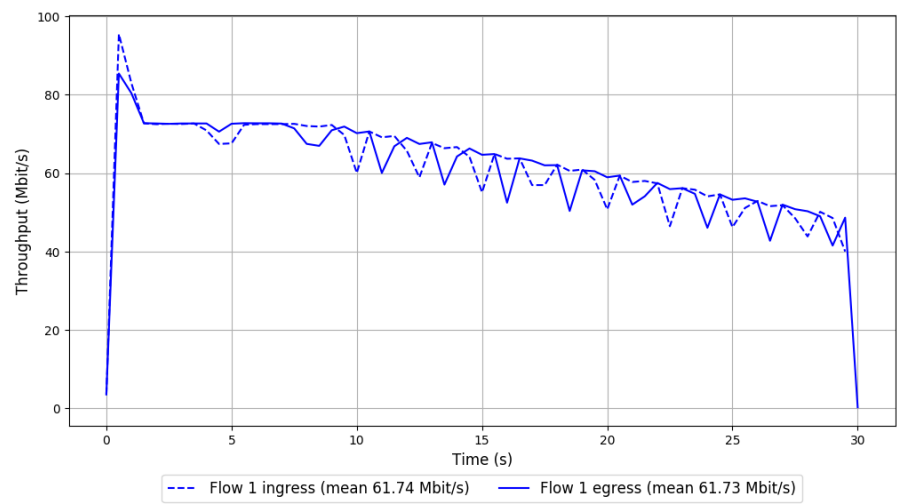
-- Flow 1:

Average throughput: 61.73 Mbit/s

95th percentile per-packet one-way delay: 53.160 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-10 16:23:11

End at: 2018-04-10 16:23:41

Below is generated by plot.py at 2018-04-10 18:31:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 54.262 ms

Loss rate: 0.00%

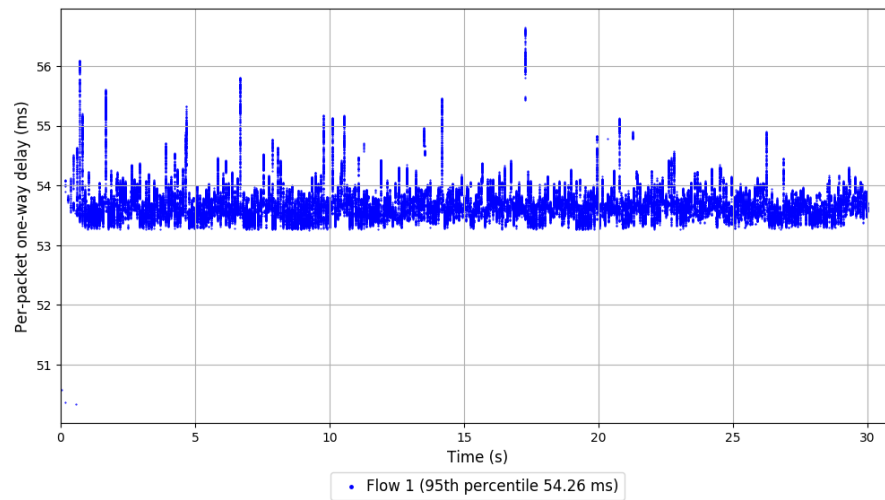
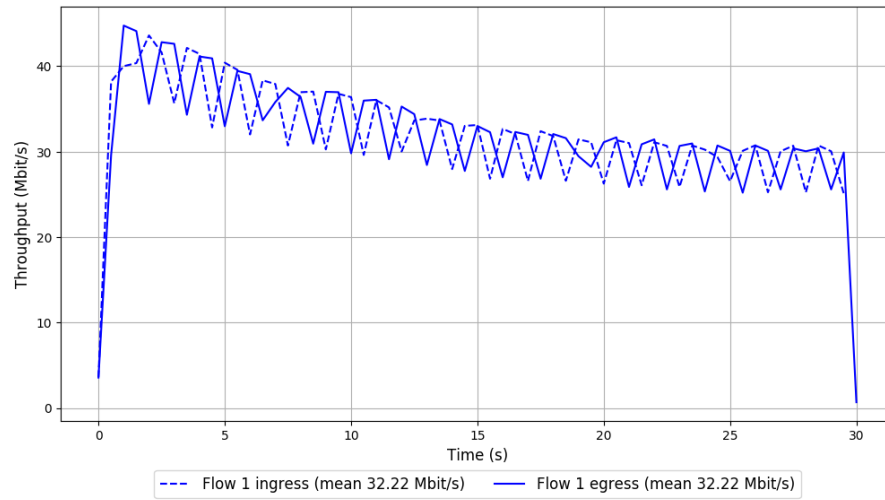
-- Flow 1:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 54.262 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 14:11:27

End at: 2018-04-10 14:11:57

Below is generated by plot.py at 2018-04-10 18:34:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.22 Mbit/s

95th percentile per-packet one-way delay: 93.165 ms

Loss rate: 0.08%

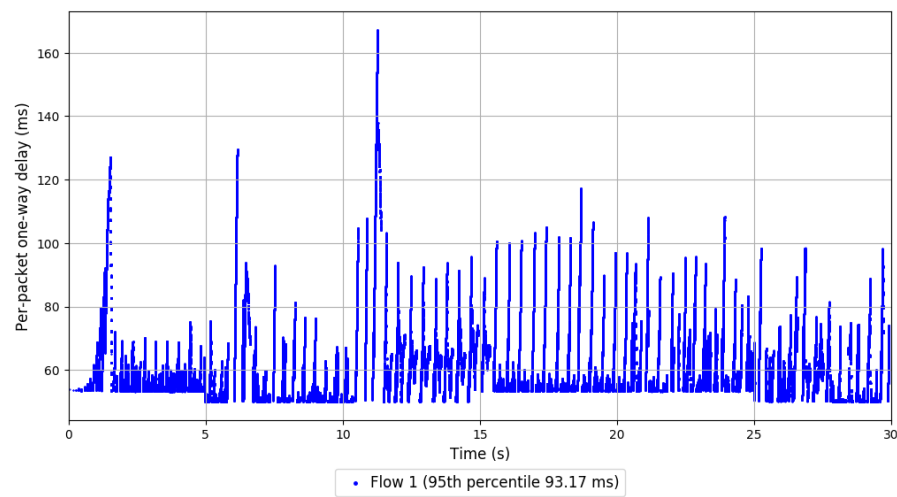
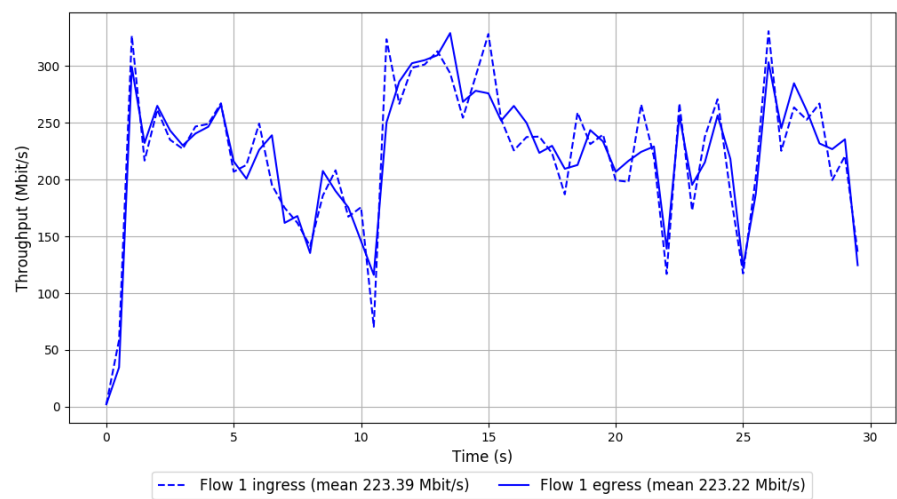
-- Flow 1:

Average throughput: 223.22 Mbit/s

95th percentile per-packet one-way delay: 93.165 ms

Loss rate: 0.08%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 14:25:45

End at: 2018-04-10 14:26:15

Below is generated by plot.py at 2018-04-10 18:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.51 Mbit/s

95th percentile per-packet one-way delay: 104.330 ms

Loss rate: 0.00%

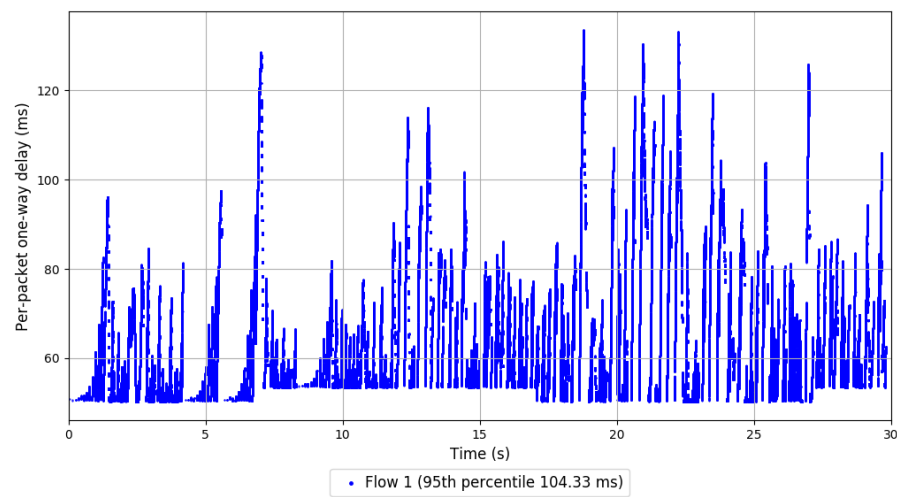
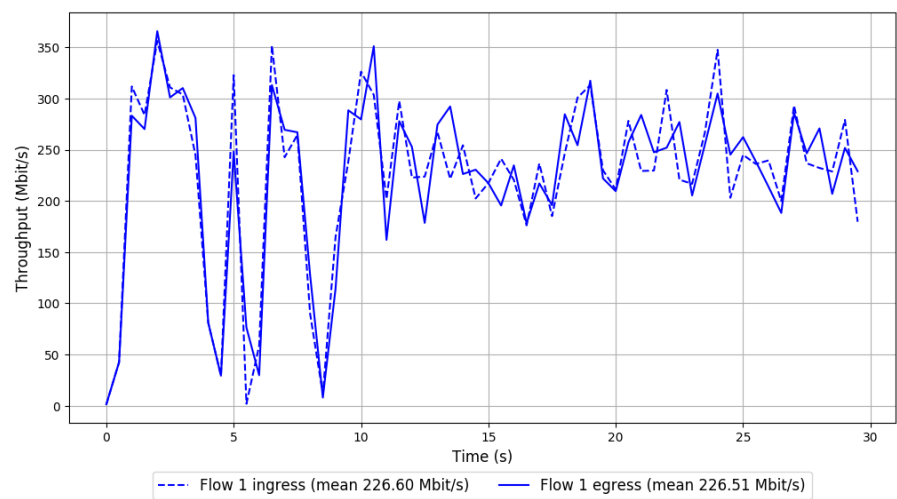
-- Flow 1:

Average throughput: 226.51 Mbit/s

95th percentile per-packet one-way delay: 104.330 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 14:40:02

End at: 2018-04-10 14:40:32

Below is generated by plot.py at 2018-04-10 18:34:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.74 Mbit/s

95th percentile per-packet one-way delay: 101.936 ms

Loss rate: 0.00%

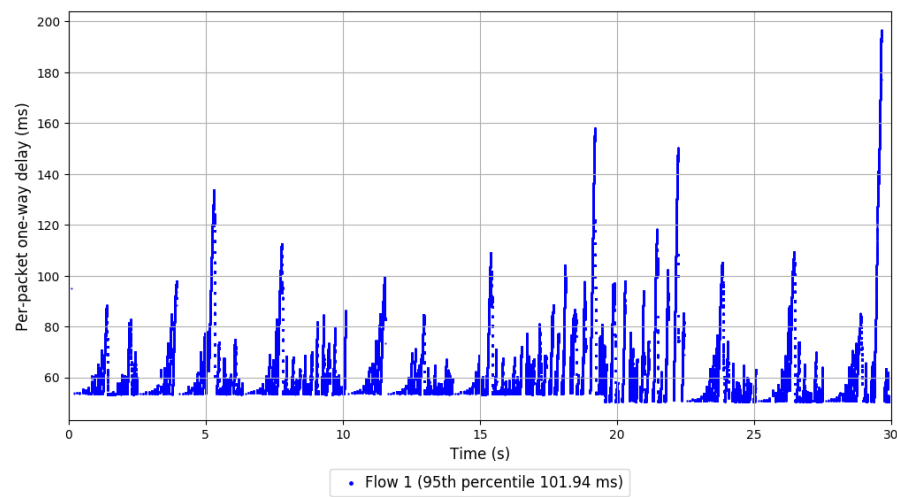
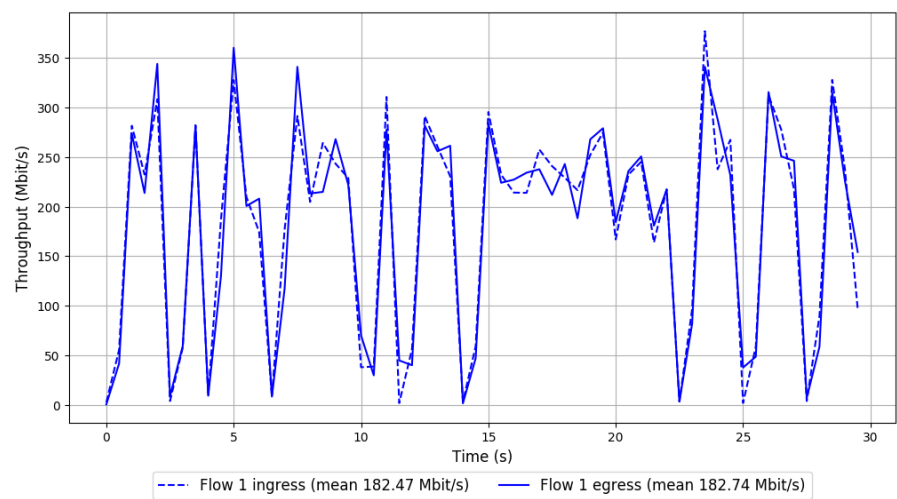
-- Flow 1:

Average throughput: 182.74 Mbit/s

95th percentile per-packet one-way delay: 101.936 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-10 14:54:13

End at: 2018-04-10 14:54:43

Below is generated by plot.py at 2018-04-10 18:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.75 Mbit/s

95th percentile per-packet one-way delay: 109.519 ms

Loss rate: 0.00%

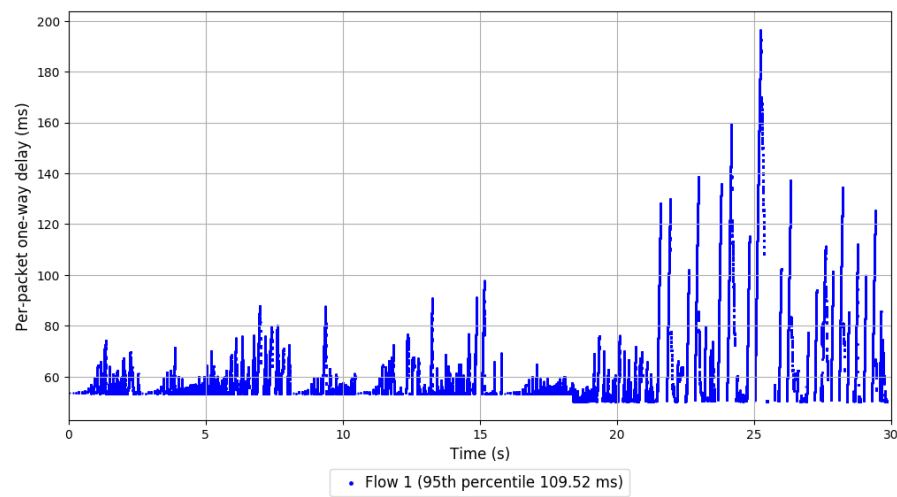
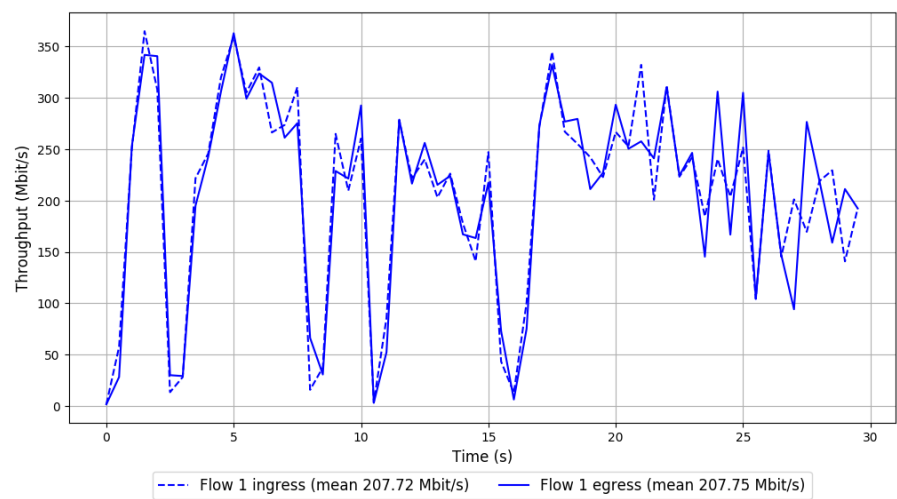
-- Flow 1:

Average throughput: 207.75 Mbit/s

95th percentile per-packet one-way delay: 109.519 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 15:08:51

End at: 2018-04-10 15:09:21

Below is generated by plot.py at 2018-04-10 18:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.55 Mbit/s

95th percentile per-packet one-way delay: 89.295 ms

Loss rate: 0.09%

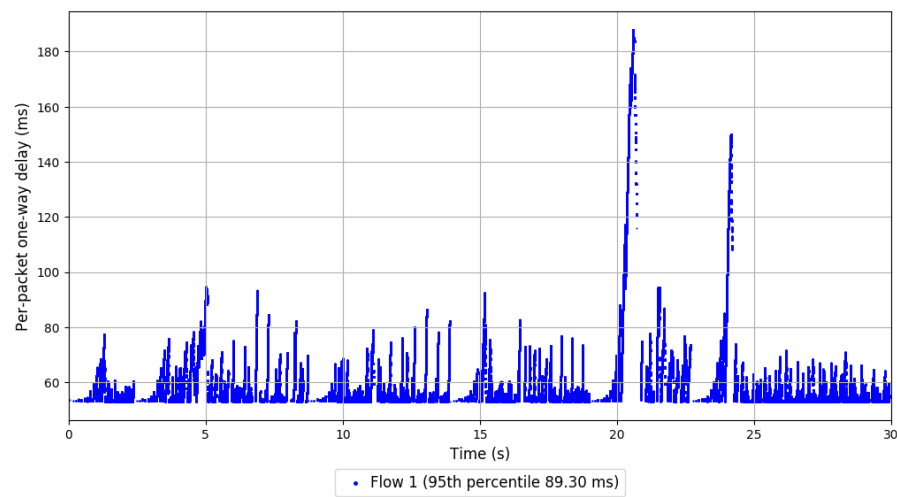
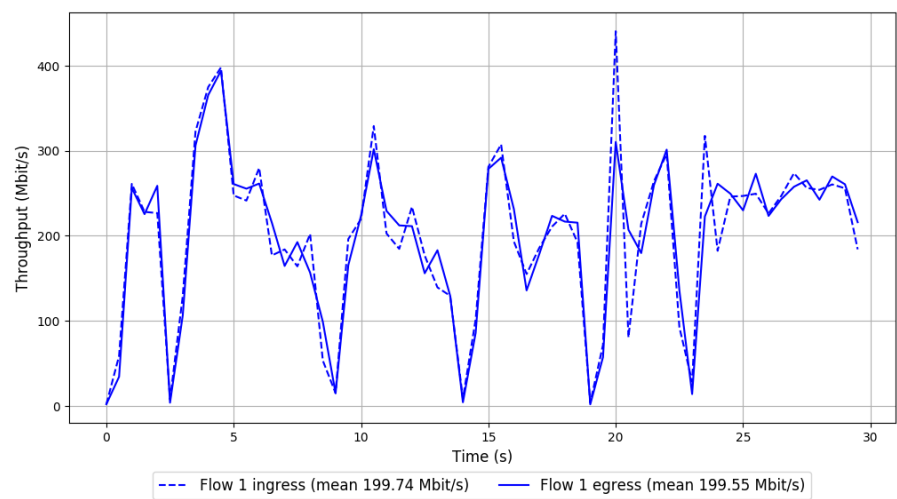
-- Flow 1:

Average throughput: 199.55 Mbit/s

95th percentile per-packet one-way delay: 89.295 ms

Loss rate: 0.09%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-10 15:23:23

End at: 2018-04-10 15:23:53

Below is generated by plot.py at 2018-04-10 18:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.51 Mbit/s

95th percentile per-packet one-way delay: 100.153 ms

Loss rate: 0.00%

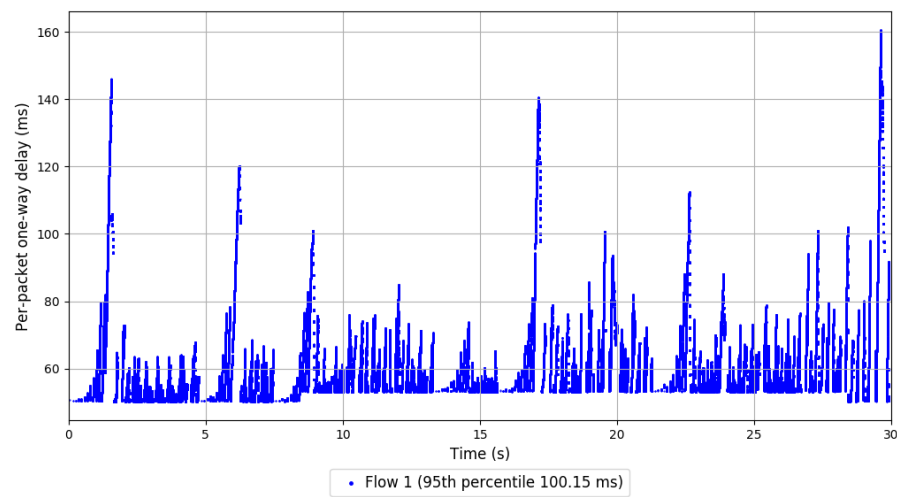
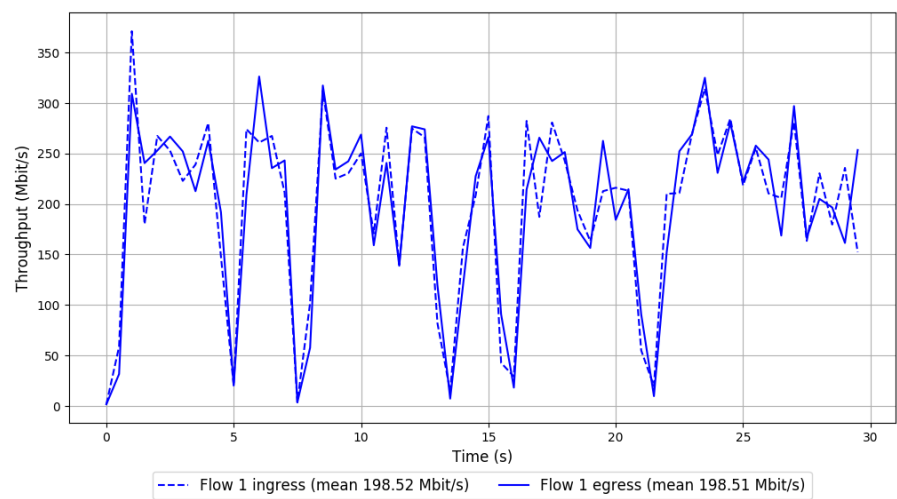
-- Flow 1:

Average throughput: 198.51 Mbit/s

95th percentile per-packet one-way delay: 100.153 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-10 15:37:53

End at: 2018-04-10 15:38:23

Below is generated by plot.py at 2018-04-10 18:35:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.02 Mbit/s

95th percentile per-packet one-way delay: 107.999 ms

Loss rate: 0.11%

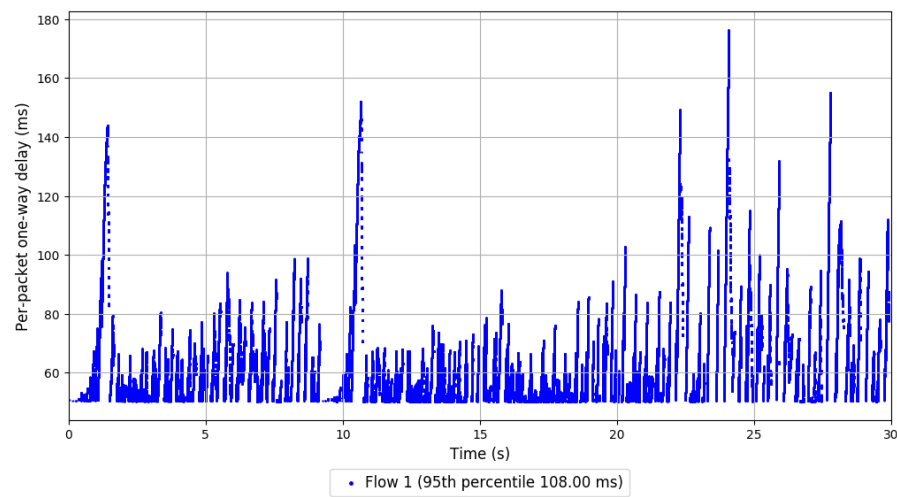
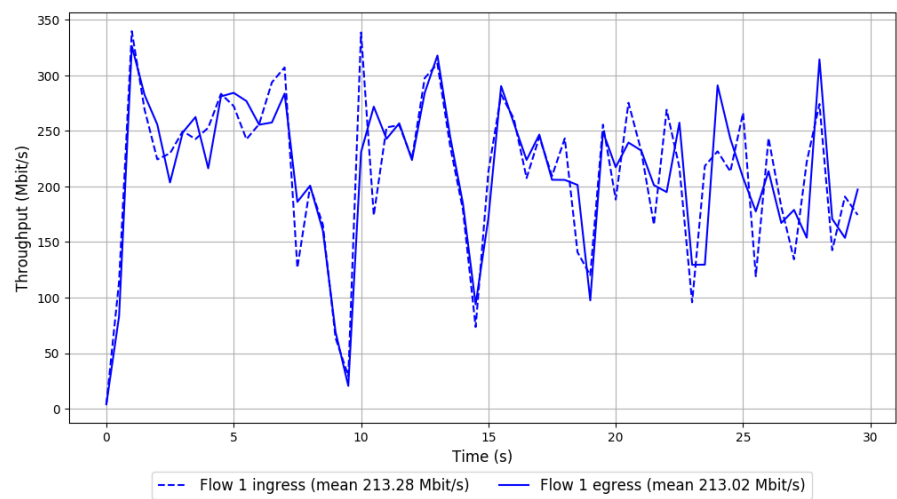
-- Flow 1:

Average throughput: 213.02 Mbit/s

95th percentile per-packet one-way delay: 107.999 ms

Loss rate: 0.11%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-10 15:51:58

End at: 2018-04-10 15:52:28

Below is generated by plot.py at 2018-04-10 18:36:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.83 Mbit/s

95th percentile per-packet one-way delay: 95.618 ms

Loss rate: 0.23%

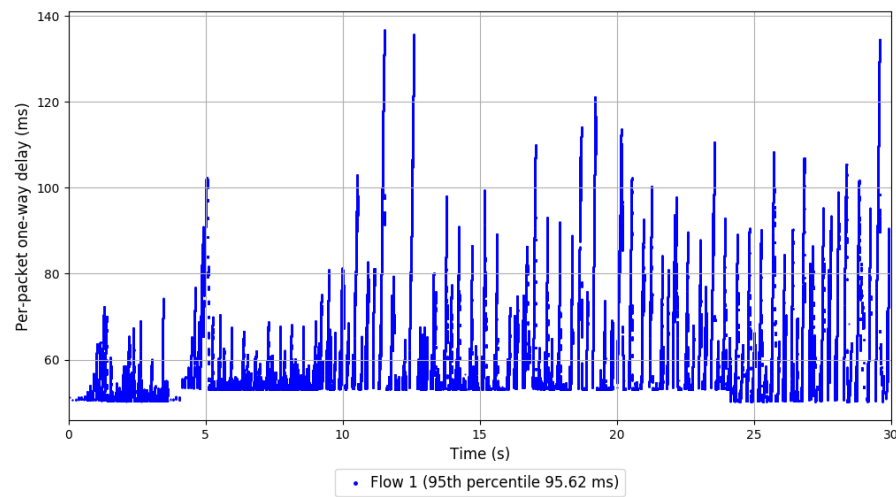
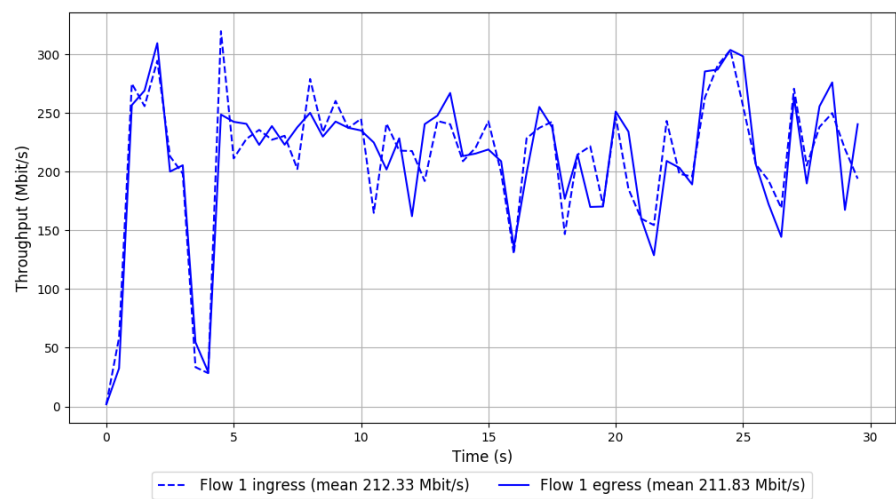
-- Flow 1:

Average throughput: 211.83 Mbit/s

95th percentile per-packet one-way delay: 95.618 ms

Loss rate: 0.23%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-10 16:06:28

End at: 2018-04-10 16:06:58

Below is generated by plot.py at 2018-04-10 18:38:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.69 Mbit/s

95th percentile per-packet one-way delay: 80.591 ms

Loss rate: 0.00%

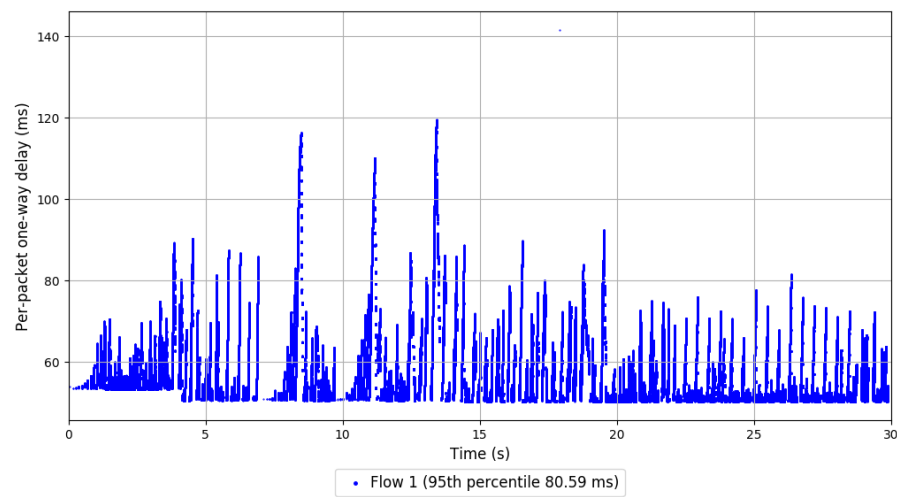
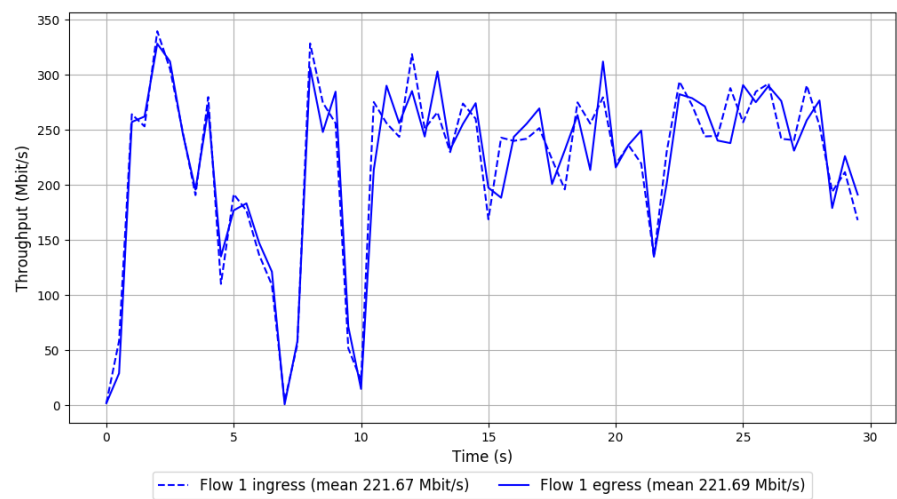
-- Flow 1:

Average throughput: 221.69 Mbit/s

95th percentile per-packet one-way delay: 80.591 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-10 16:20:44

End at: 2018-04-10 16:21:14

Below is generated by plot.py at 2018-04-10 18:38:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.88 Mbit/s

95th percentile per-packet one-way delay: 108.675 ms

Loss rate: 0.33%

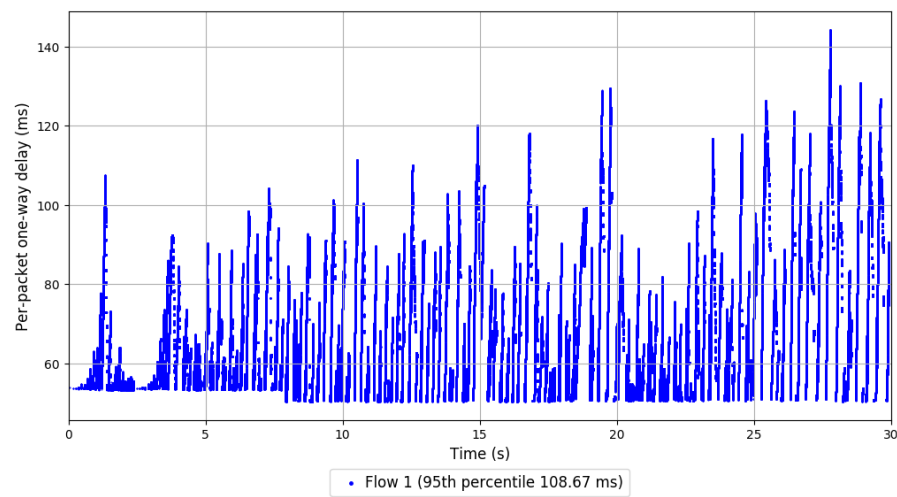
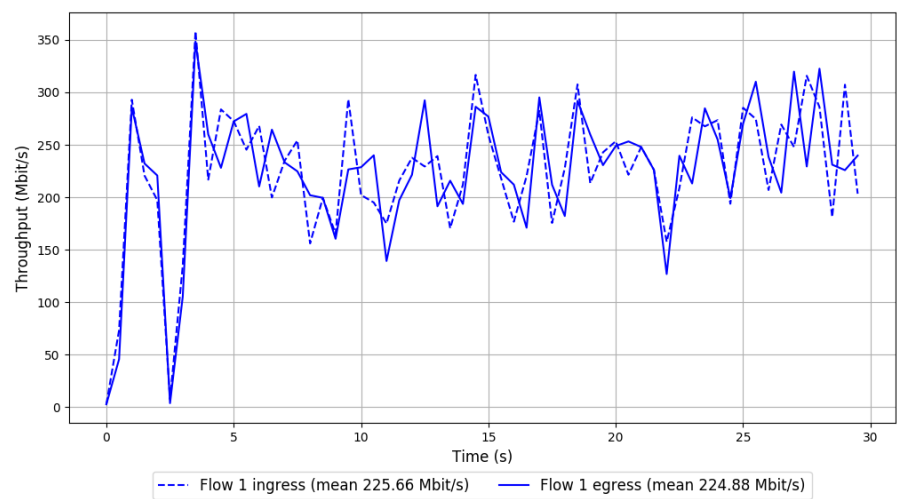
-- Flow 1:

Average throughput: 224.88 Mbit/s

95th percentile per-packet one-way delay: 108.675 ms

Loss rate: 0.33%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-10 14:09:13

End at: 2018-04-10 14:09:43

Below is generated by plot.py at 2018-04-10 18:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.42 Mbit/s

95th percentile per-packet one-way delay: 161.919 ms

Loss rate: 23.07%

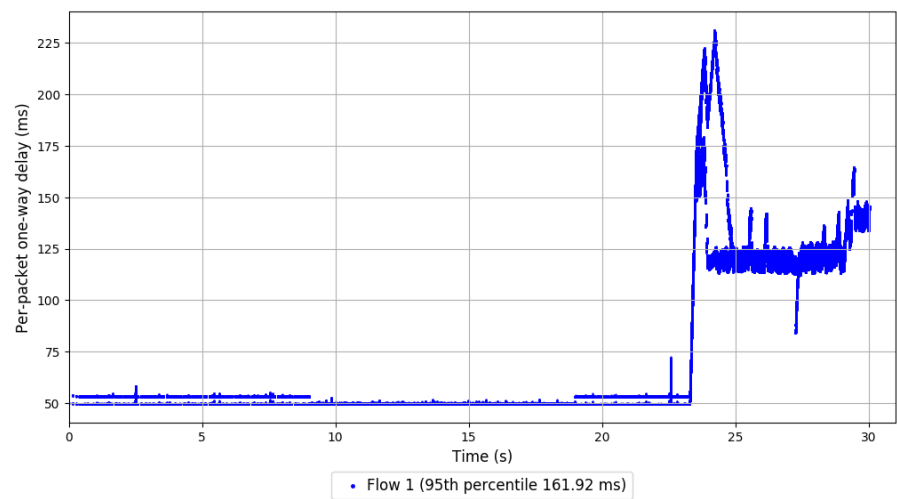
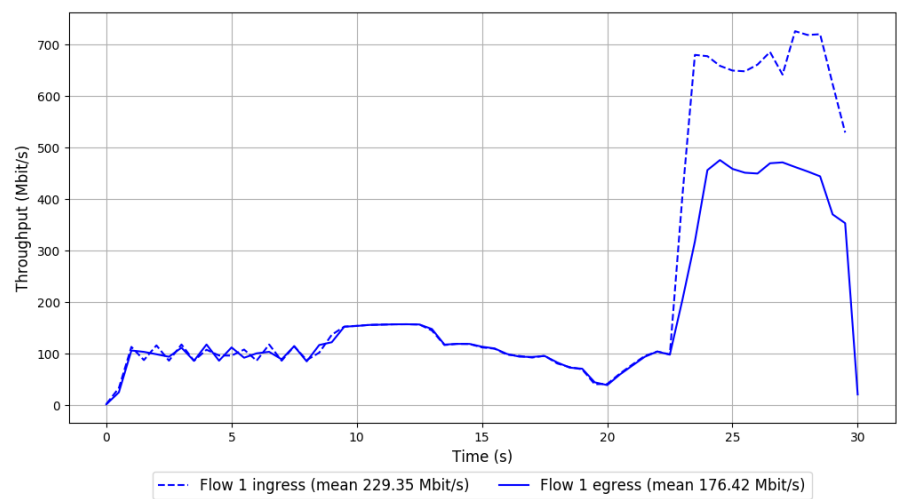
-- Flow 1:

Average throughput: 176.42 Mbit/s

95th percentile per-packet one-way delay: 161.919 ms

Loss rate: 23.07%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-10 14:23:37

End at: 2018-04-10 14:24:07

Below is generated by plot.py at 2018-04-10 18:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.70 Mbit/s

95th percentile per-packet one-way delay: 53.415 ms

Loss rate: 0.00%

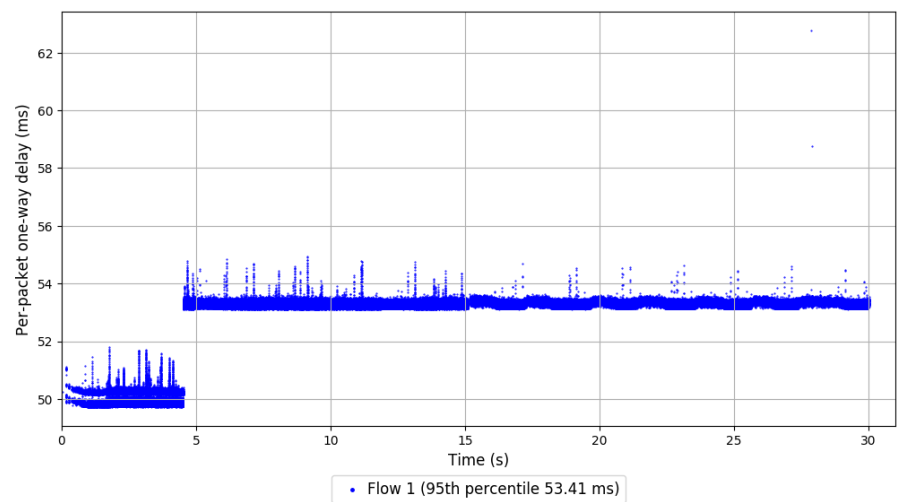
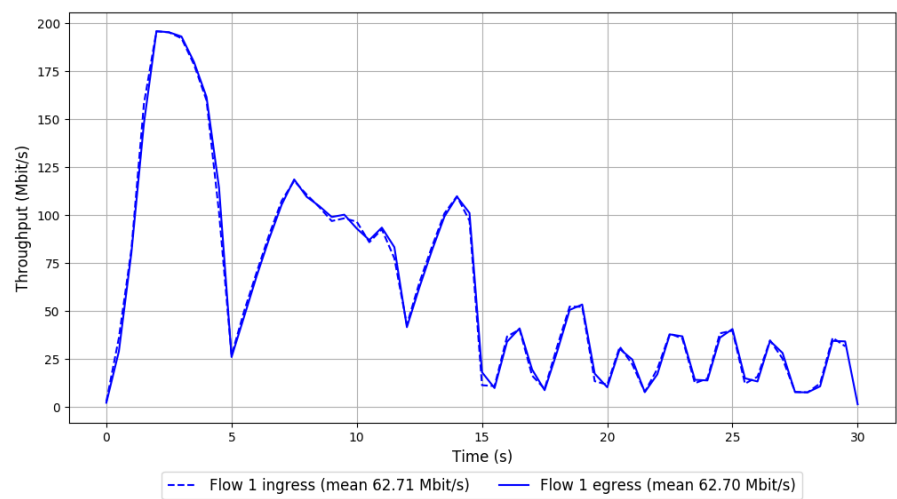
-- Flow 1:

Average throughput: 62.70 Mbit/s

95th percentile per-packet one-way delay: 53.415 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-10 14:37:53

End at: 2018-04-10 14:38:23

Below is generated by plot.py at 2018-04-10 18:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.73 Mbit/s

95th percentile per-packet one-way delay: 53.415 ms

Loss rate: 0.00%

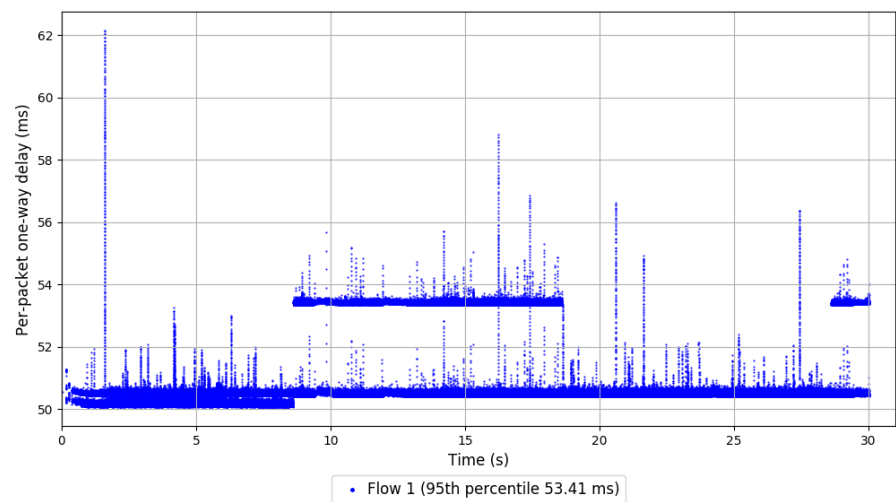
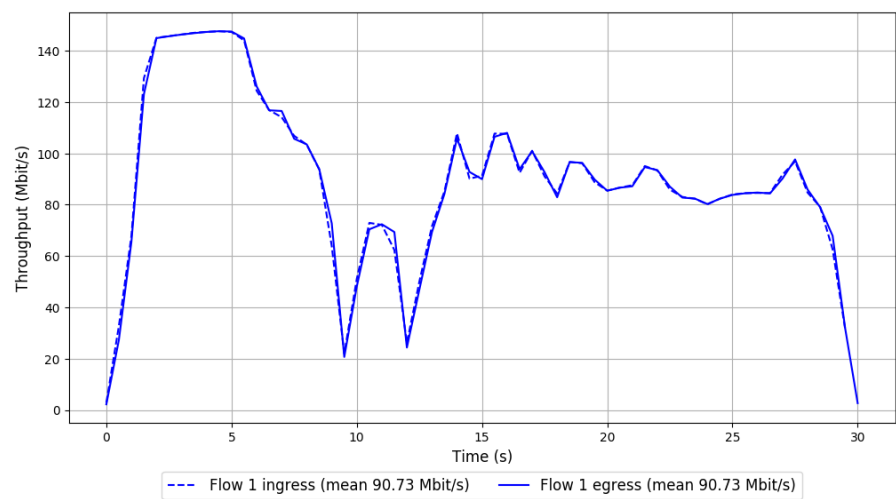
-- Flow 1:

Average throughput: 90.73 Mbit/s

95th percentile per-packet one-way delay: 53.415 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-10 14:52:05

End at: 2018-04-10 14:52:35

Below is generated by plot.py at 2018-04-10 18:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.95 Mbit/s

95th percentile per-packet one-way delay: 53.503 ms

Loss rate: 0.00%

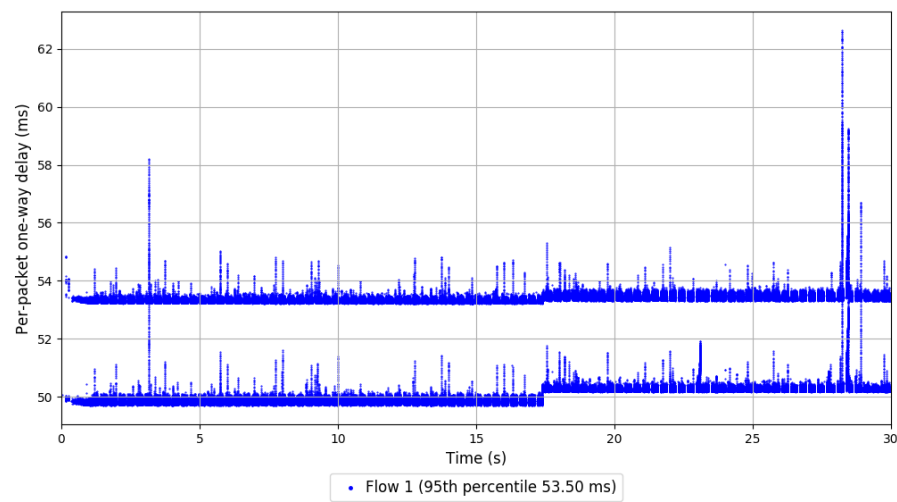
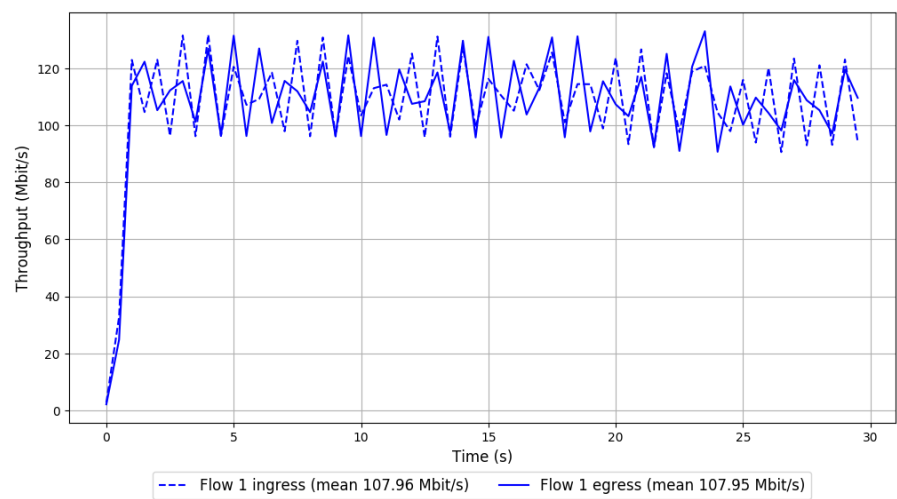
-- Flow 1:

Average throughput: 107.95 Mbit/s

95th percentile per-packet one-way delay: 53.503 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-10 15:06:20

End at: 2018-04-10 15:06:50

Below is generated by plot.py at 2018-04-10 18:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.51 Mbit/s

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

Loss rate: 23.62%

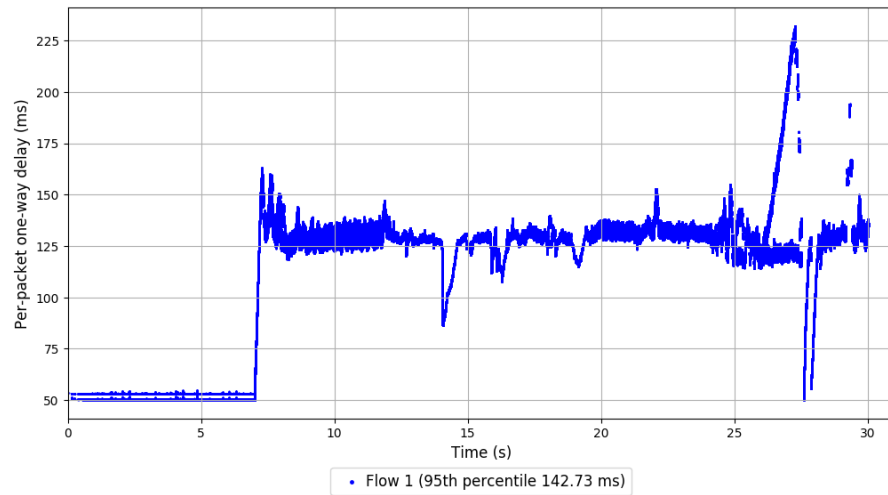
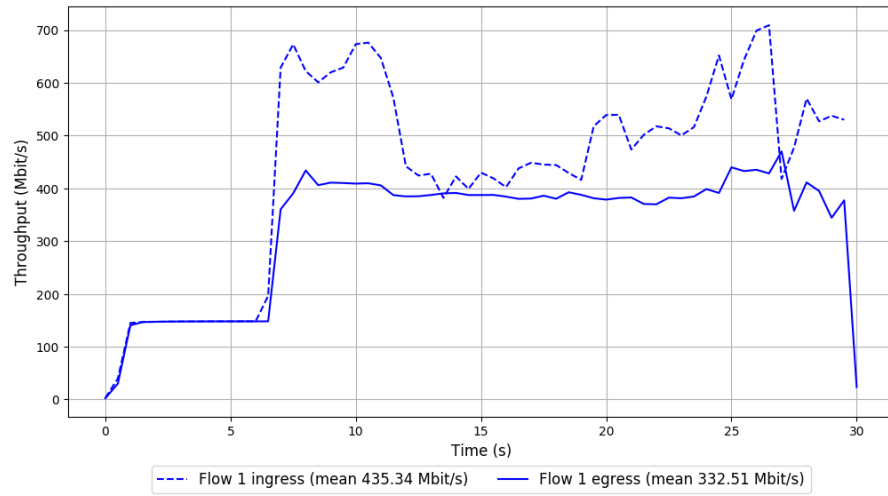
-- Flow 1:

Average throughput: 332.51 Mbit/s

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

Loss rate: 23.62%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-10 15:21:10

End at: 2018-04-10 15:21:40

Below is generated by plot.py at 2018-04-10 18:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.33 Mbit/s

95th percentile per-packet one-way delay: 153.726 ms

Loss rate: 19.71%

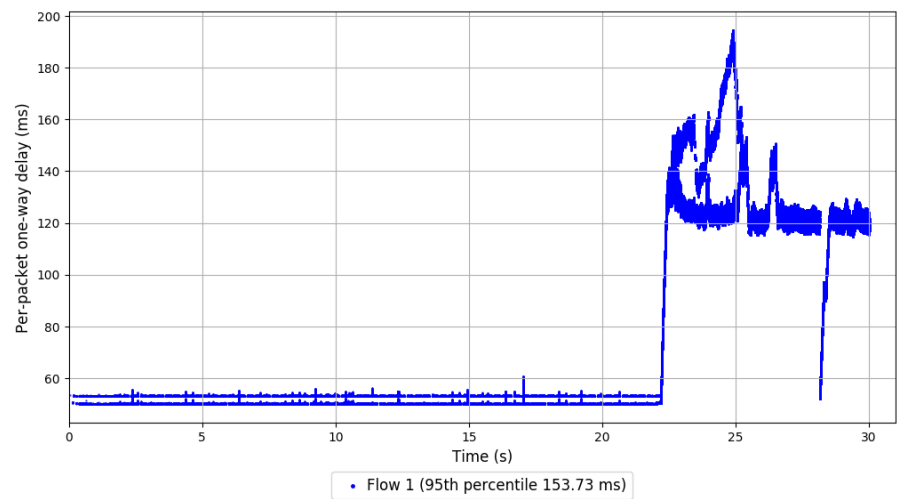
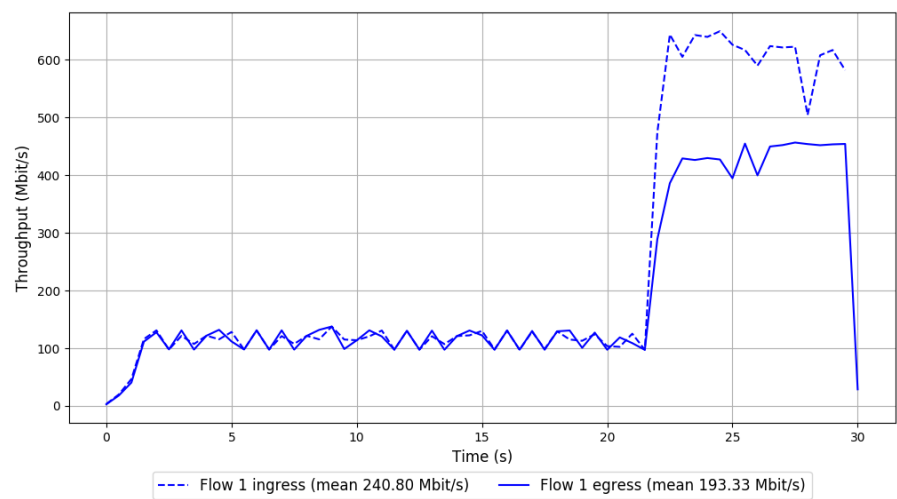
-- Flow 1:

Average throughput: 193.33 Mbit/s

95th percentile per-packet one-way delay: 153.726 ms

Loss rate: 19.71%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-10 15:35:44

End at: 2018-04-10 15:36:14

Below is generated by plot.py at 2018-04-10 18:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.25 Mbit/s

95th percentile per-packet one-way delay: 53.206 ms

Loss rate: 0.00%

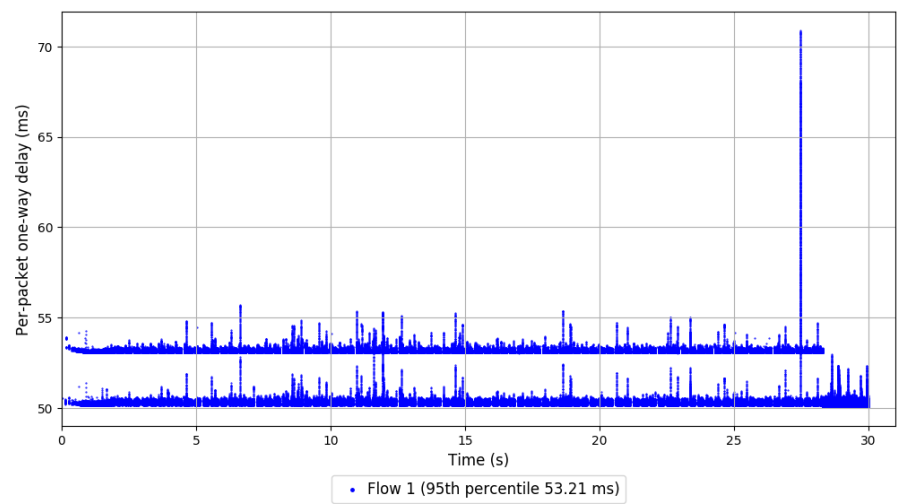
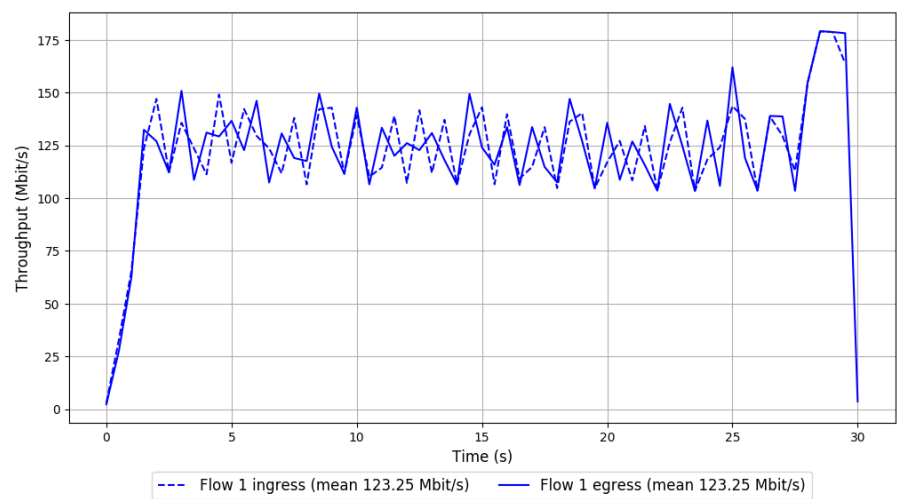
-- Flow 1:

Average throughput: 123.25 Mbit/s

95th percentile per-packet one-way delay: 53.206 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-10 15:49:51

End at: 2018-04-10 15:50:21

Below is generated by plot.py at 2018-04-10 18:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 53.190 ms

Loss rate: 0.00%

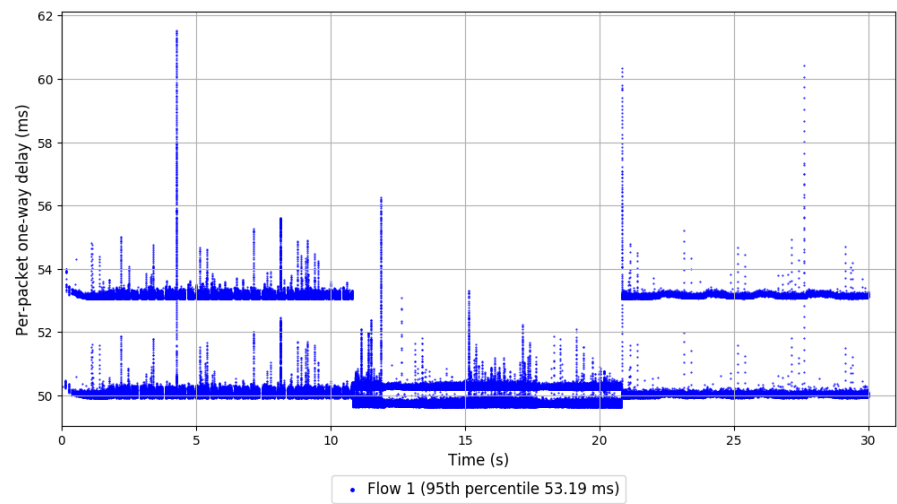
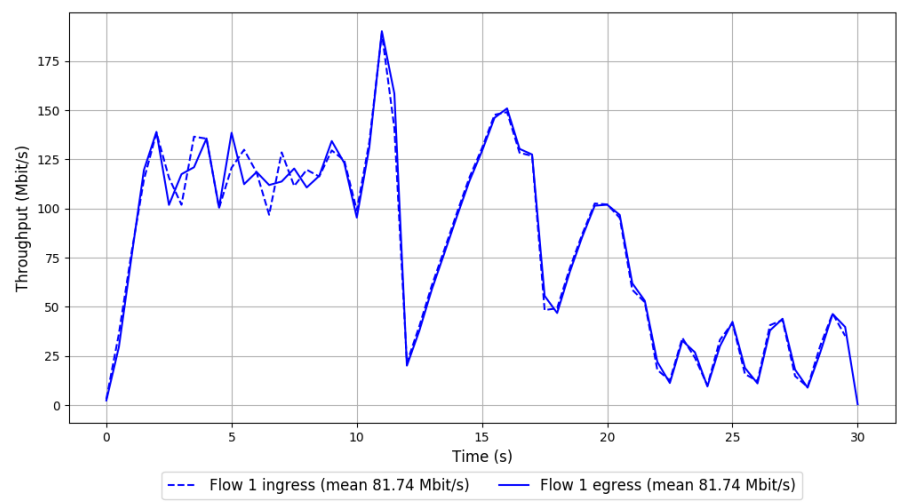
-- Flow 1:

Average throughput: 81.74 Mbit/s

95th percentile per-packet one-way delay: 53.190 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-10 16:04:19

End at: 2018-04-10 16:04:49

Below is generated by plot.py at 2018-04-10 18:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.01 Mbit/s

95th percentile per-packet one-way delay: 53.283 ms

Loss rate: 0.00%

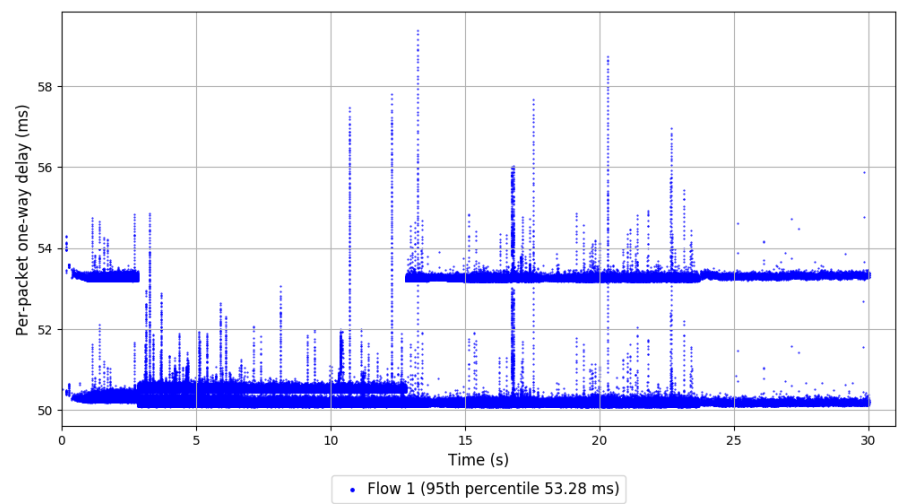
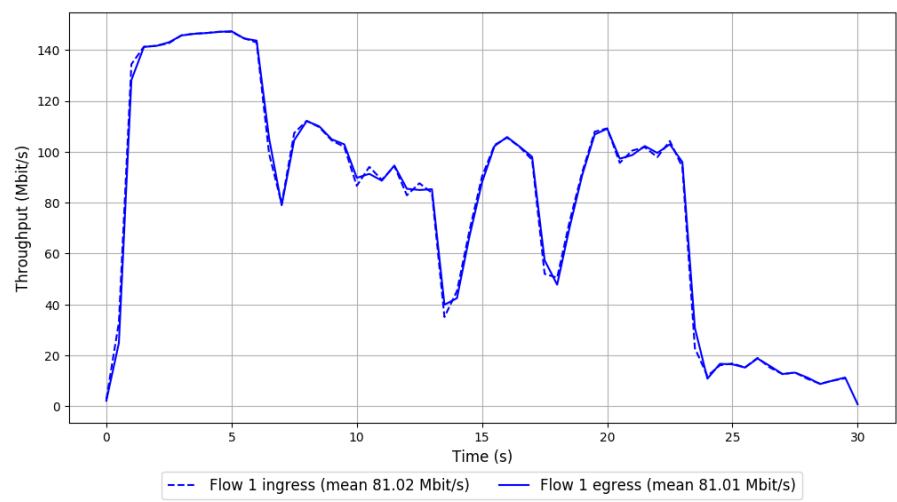
-- Flow 1:

Average throughput: 81.01 Mbit/s

95th percentile per-packet one-way delay: 53.283 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-10 16:18:34

End at: 2018-04-10 16:19:04

Below is generated by plot.py at 2018-04-10 18:46:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.91 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.00%

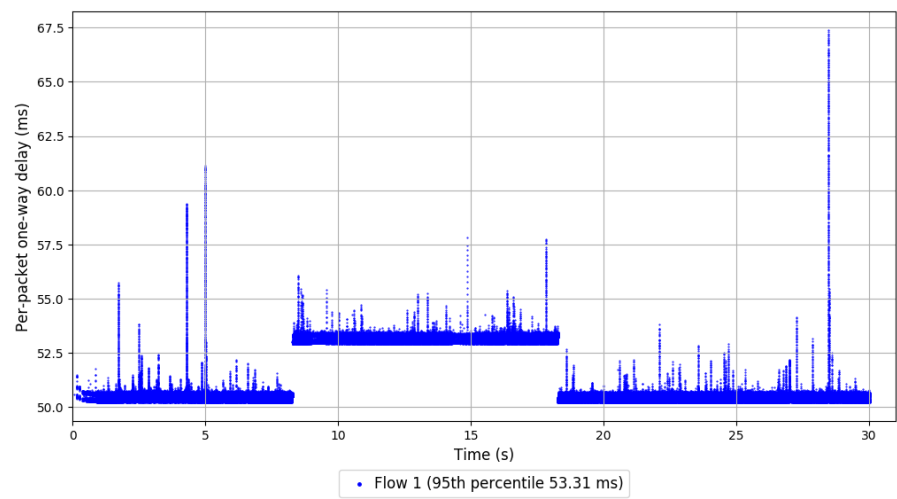
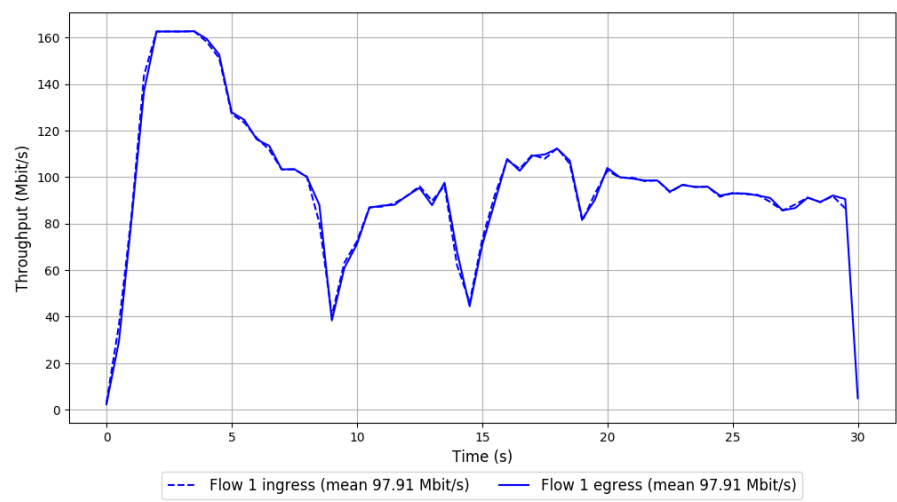
-- Flow 1:

Average throughput: 97.91 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-10 14:07:29

End at: 2018-04-10 14:07:59

Below is generated by plot.py at 2018-04-10 18:53:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 711.94 Mbit/s

95th percentile per-packet one-way delay: 140.690 ms

Loss rate: 4.93%

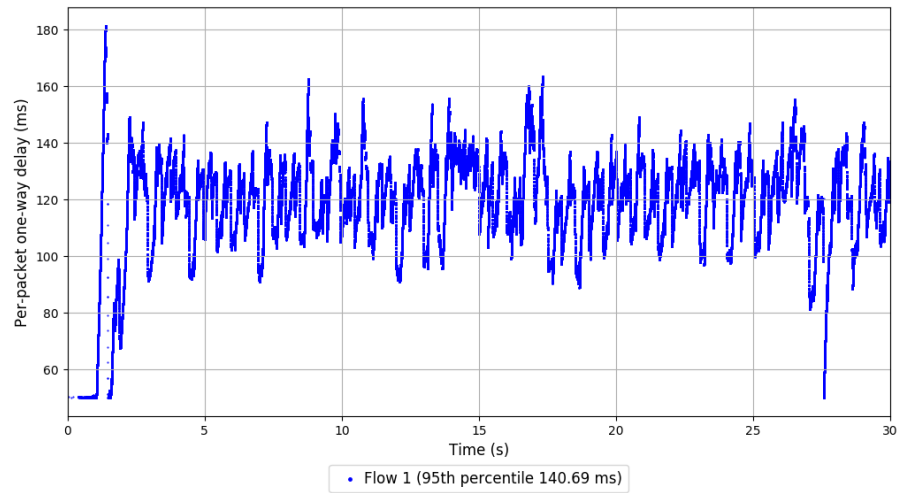
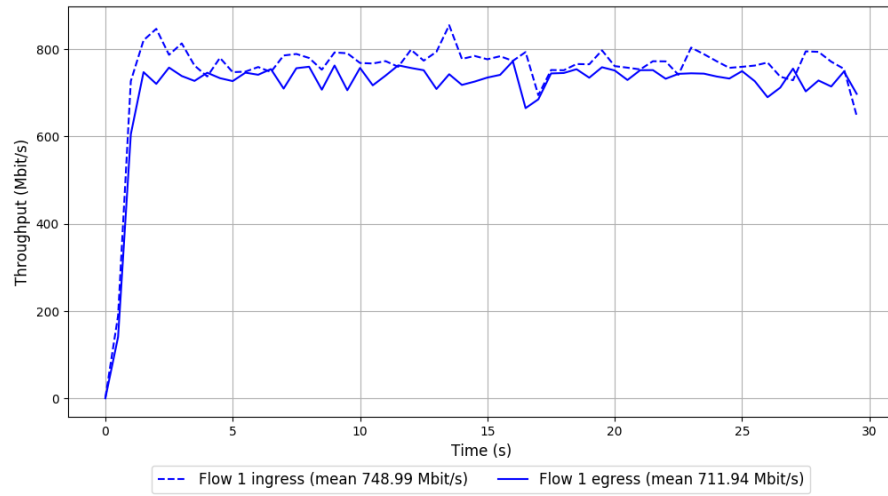
-- Flow 1:

Average throughput: 711.94 Mbit/s

95th percentile per-packet one-way delay: 140.690 ms

Loss rate: 4.93%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-10 14:21:55

End at: 2018-04-10 14:22:25

Below is generated by plot.py at 2018-04-10 18:54:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 738.86 Mbit/s

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

Loss rate: 3.61%

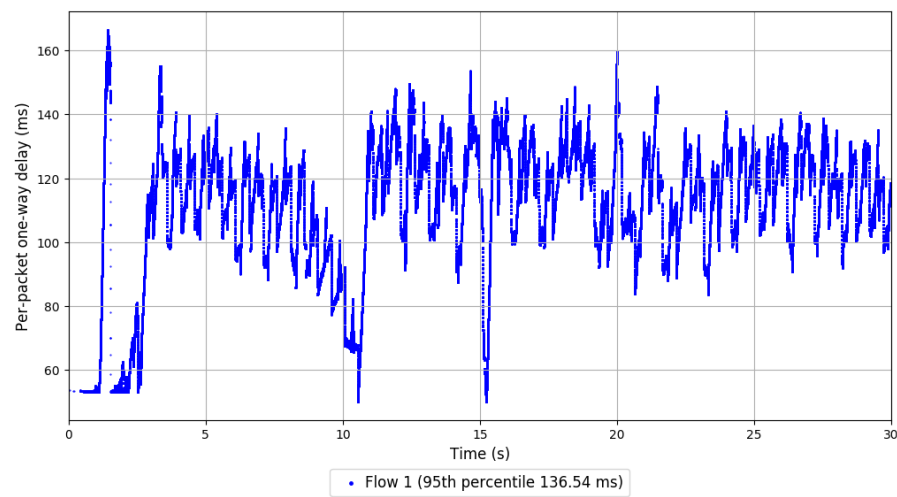
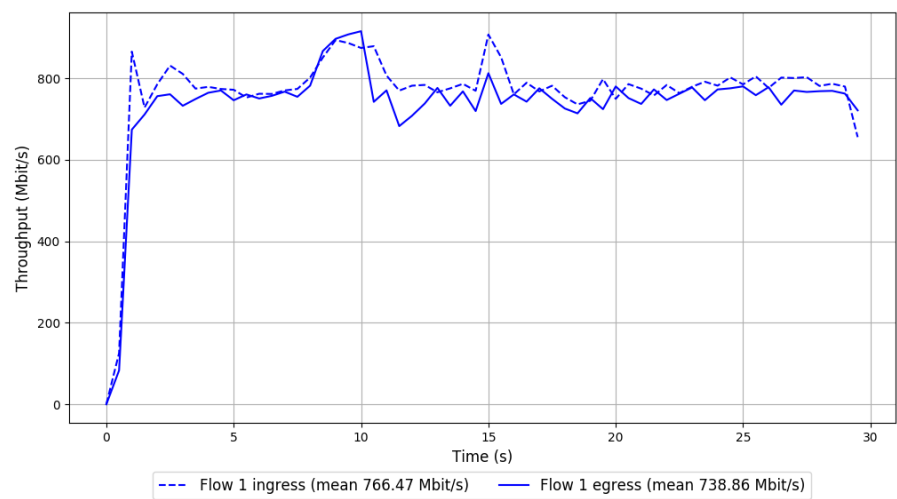
-- Flow 1:

Average throughput: 738.86 Mbit/s

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

Loss rate: 3.61%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-10 14:36:11

End at: 2018-04-10 14:36:41

Below is generated by plot.py at 2018-04-10 18:54:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 700.34 Mbit/s

95th percentile per-packet one-way delay: 138.435 ms

Loss rate: 4.03%

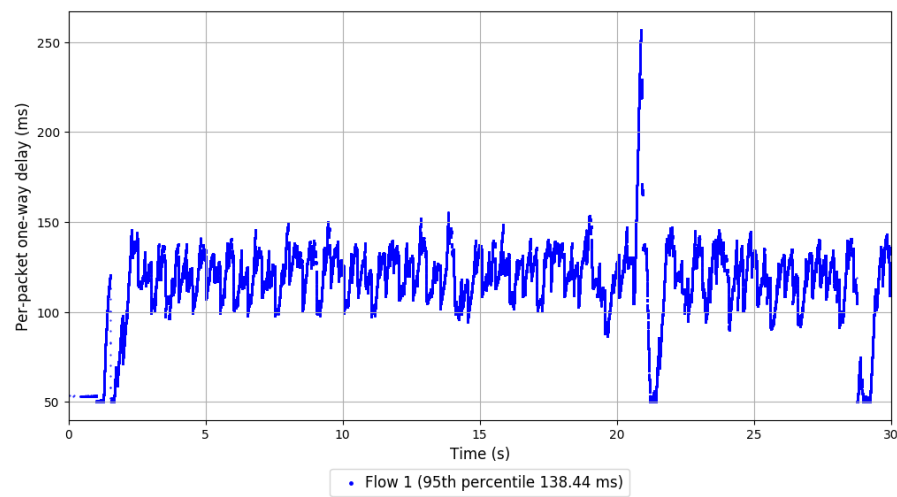
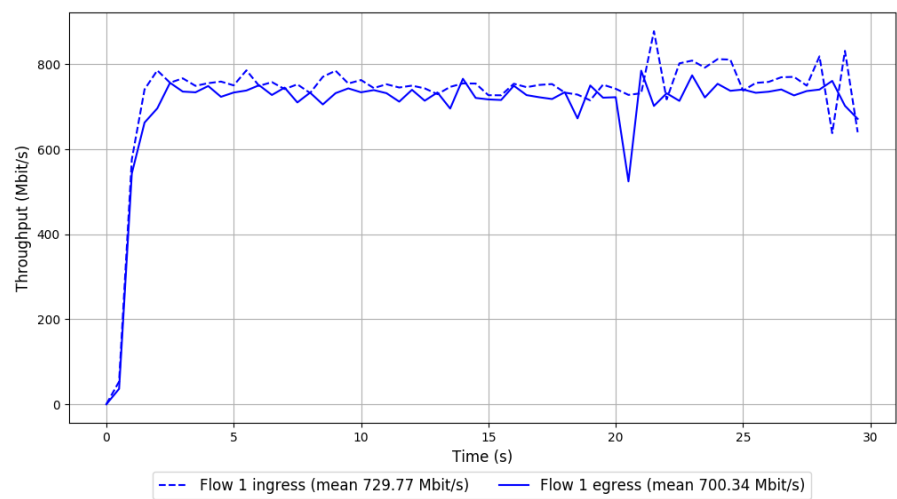
-- Flow 1:

Average throughput: 700.34 Mbit/s

95th percentile per-packet one-way delay: 138.435 ms

Loss rate: 4.03%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-10 14:50:21

End at: 2018-04-10 14:50:51

Below is generated by plot.py at 2018-04-10 18:55:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 733.66 Mbit/s

95th percentile per-packet one-way delay: 135.670 ms

Loss rate: 3.37%

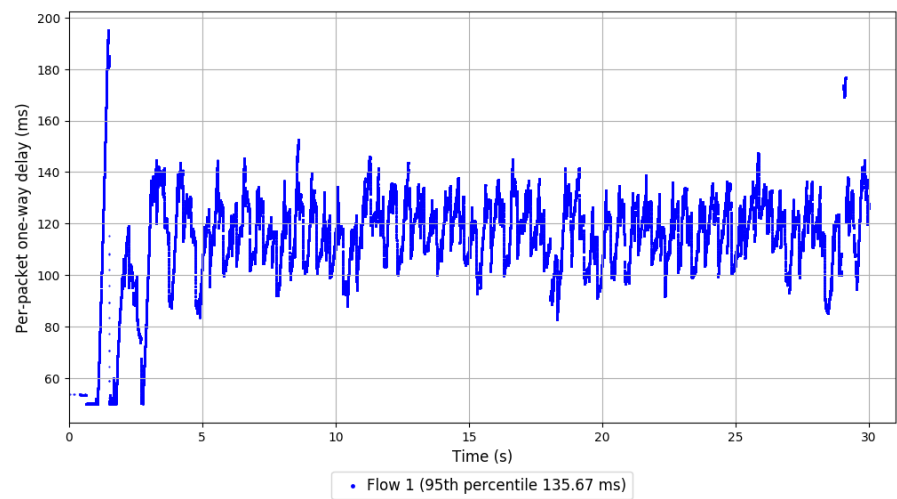
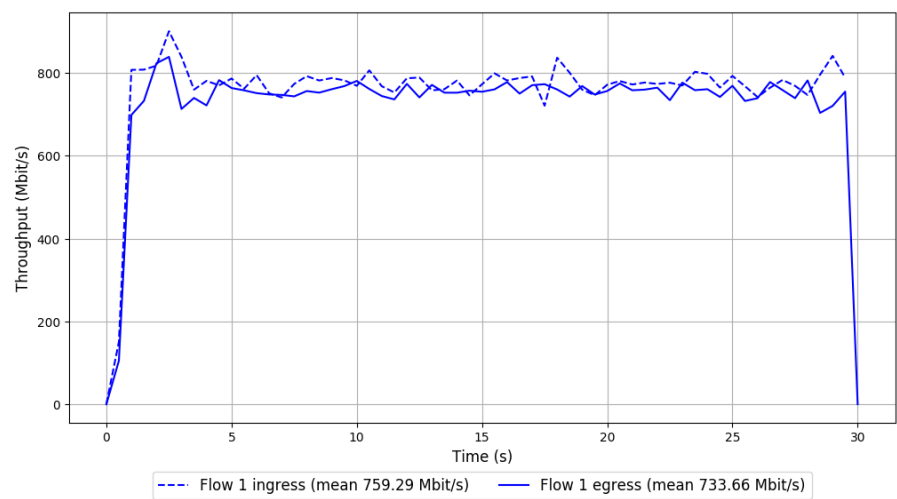
-- Flow 1:

Average throughput: 733.66 Mbit/s

95th percentile per-packet one-way delay: 135.670 ms

Loss rate: 3.37%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-10 15:04:36

End at: 2018-04-10 15:05:06

Below is generated by plot.py at 2018-04-10 18:55:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.15 Mbit/s

95th percentile per-packet one-way delay: 133.750 ms

Loss rate: 3.30%

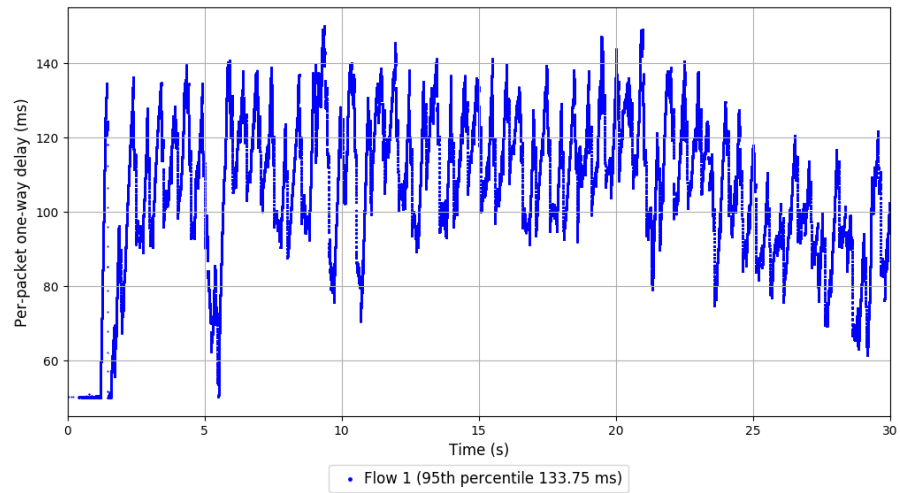
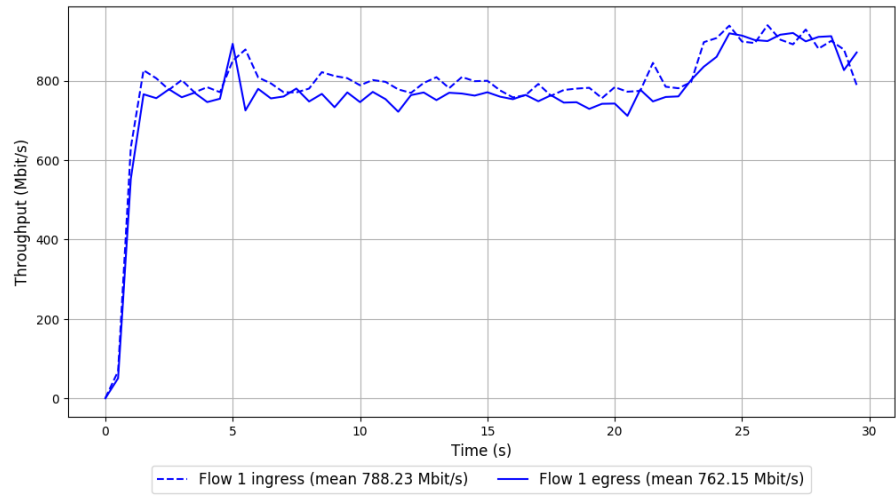
-- Flow 1:

Average throughput: 762.15 Mbit/s

95th percentile per-packet one-way delay: 133.750 ms

Loss rate: 3.30%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-10 15:19:28

End at: 2018-04-10 15:19:58

Below is generated by plot.py at 2018-04-10 18:55:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 708.56 Mbit/s

95th percentile per-packet one-way delay: 139.530 ms

Loss rate: 3.93%

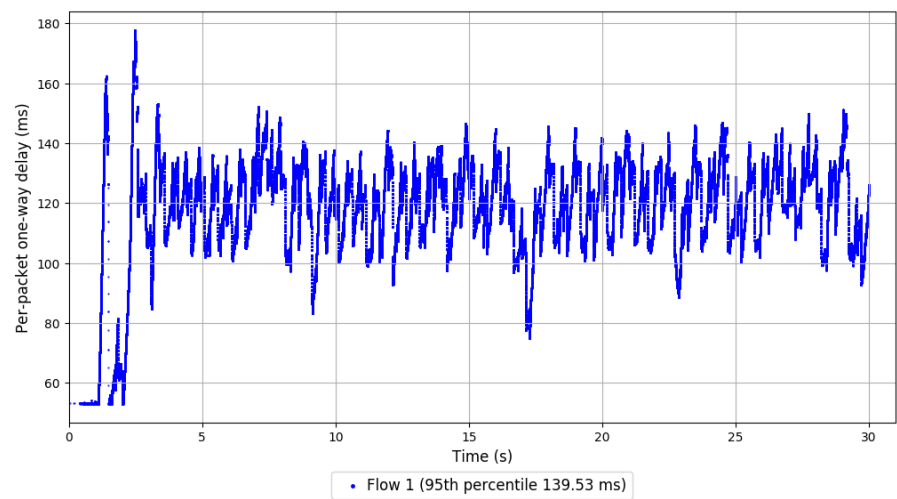
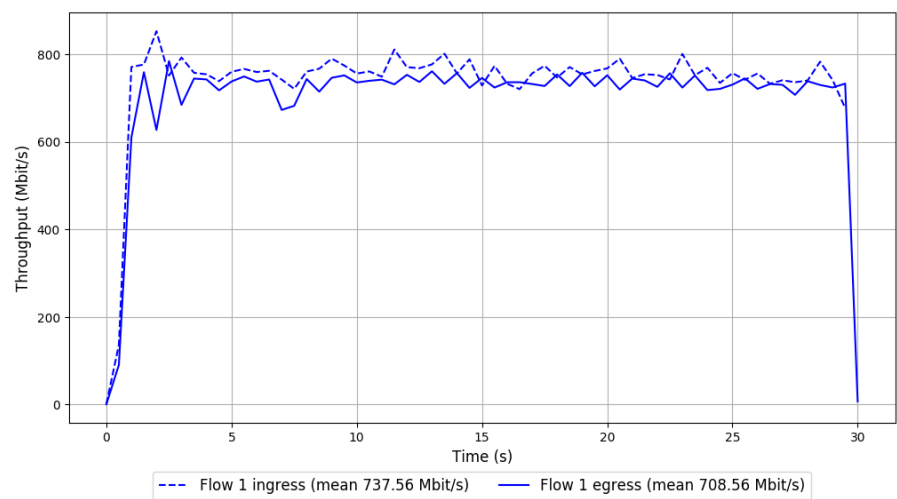
-- Flow 1:

Average throughput: 708.56 Mbit/s

95th percentile per-packet one-way delay: 139.530 ms

Loss rate: 3.93%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-10 15:34:05

End at: 2018-04-10 15:34:35

Below is generated by plot.py at 2018-04-10 18:57:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 727.89 Mbit/s

95th percentile per-packet one-way delay: 136.395 ms

Loss rate: 3.59%

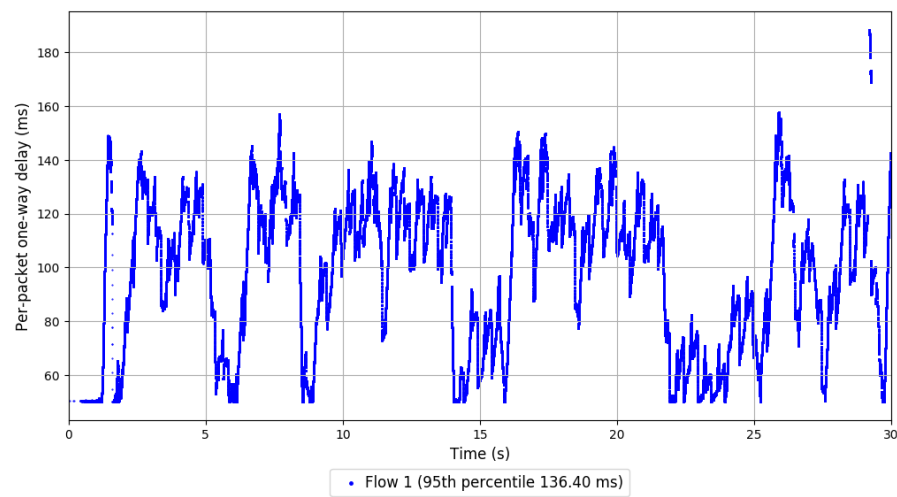
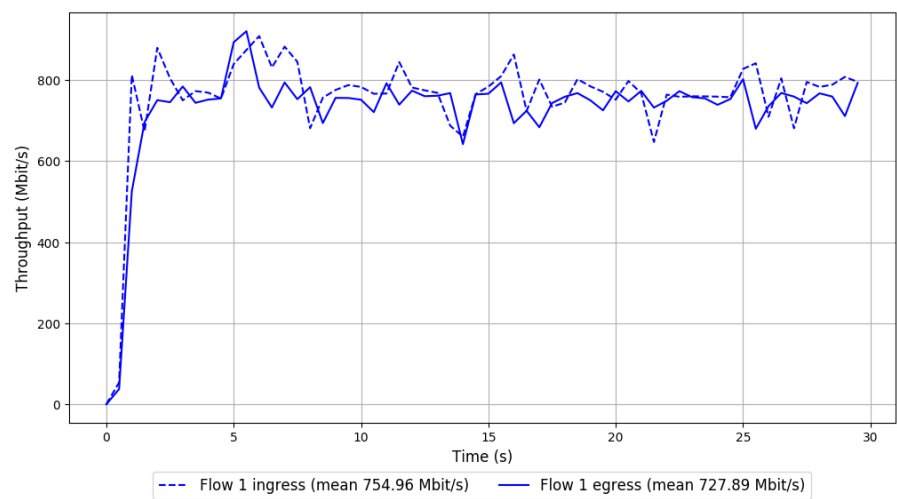
-- Flow 1:

Average throughput: 727.89 Mbit/s

95th percentile per-packet one-way delay: 136.395 ms

Loss rate: 3.59%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-10 15:48:08

End at: 2018-04-10 15:48:38

Below is generated by plot.py at 2018-04-10 19:02:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 744.25 Mbit/s

95th percentile per-packet one-way delay: 134.506 ms

Loss rate: 2.87%

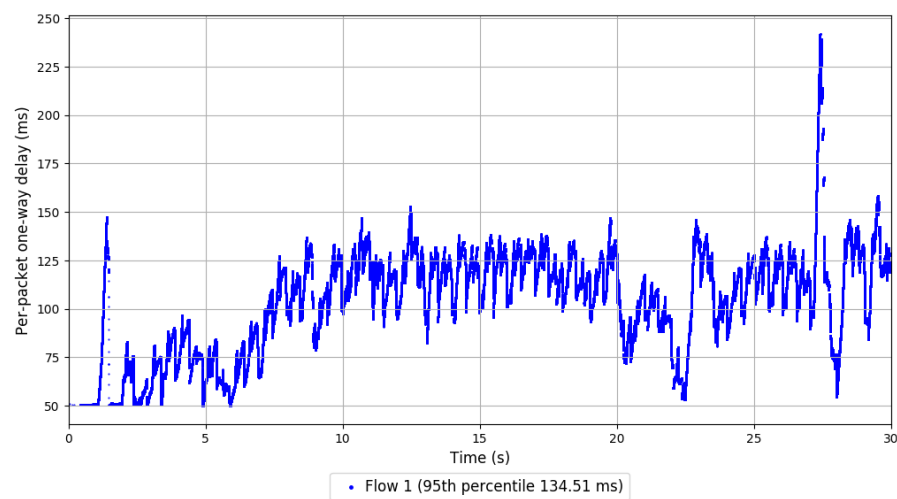
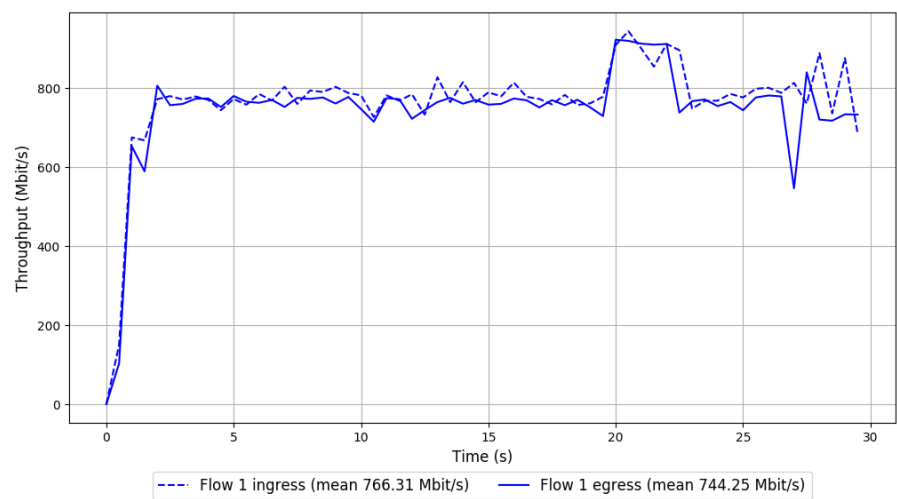
-- Flow 1:

Average throughput: 744.25 Mbit/s

95th percentile per-packet one-way delay: 134.506 ms

Loss rate: 2.87%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-10 16:02:36

End at: 2018-04-10 16:03:06

Below is generated by plot.py at 2018-04-10 19:07:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 731.03 Mbit/s

95th percentile per-packet one-way delay: 141.893 ms

Loss rate: 4.41%

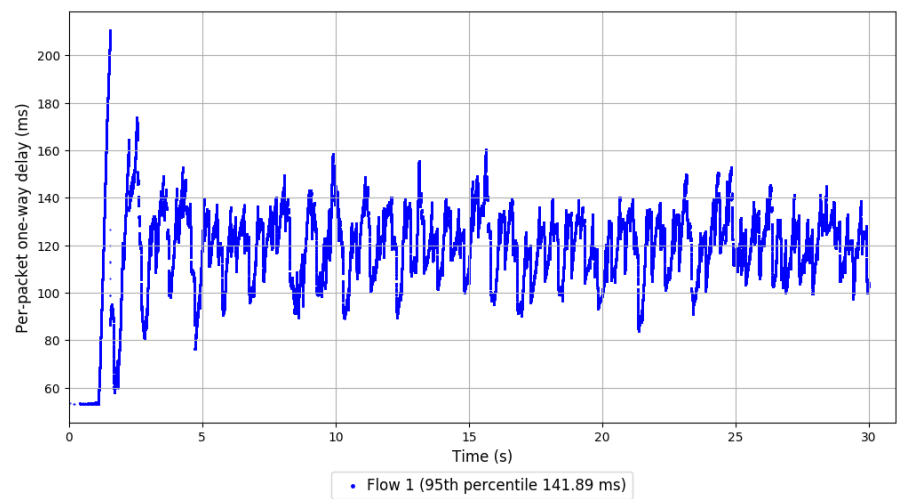
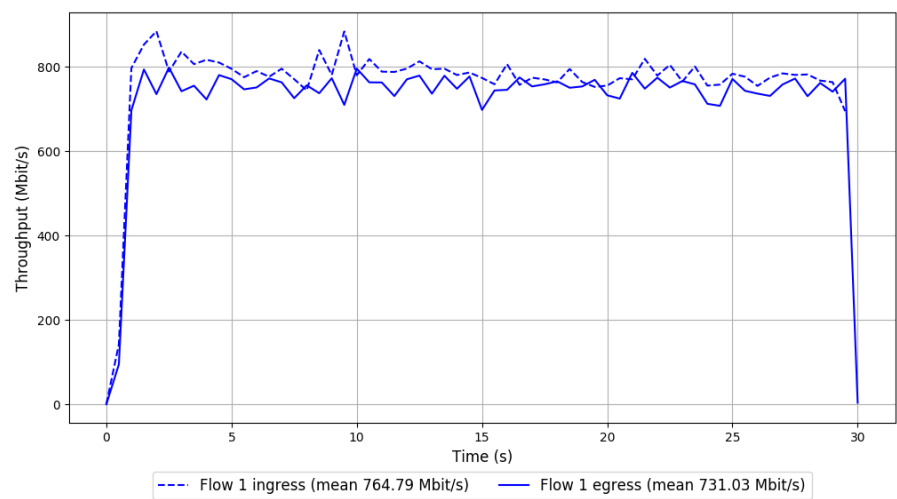
-- Flow 1:

Average throughput: 731.03 Mbit/s

95th percentile per-packet one-way delay: 141.893 ms

Loss rate: 4.41%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-10 16:16:51

End at: 2018-04-10 16:17:21

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 720.04 Mbit/s

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

Loss rate: 3.92%

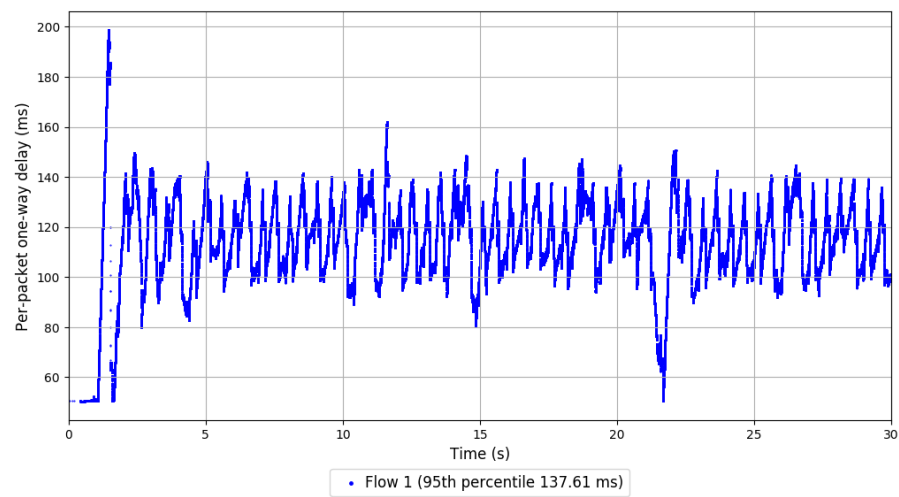
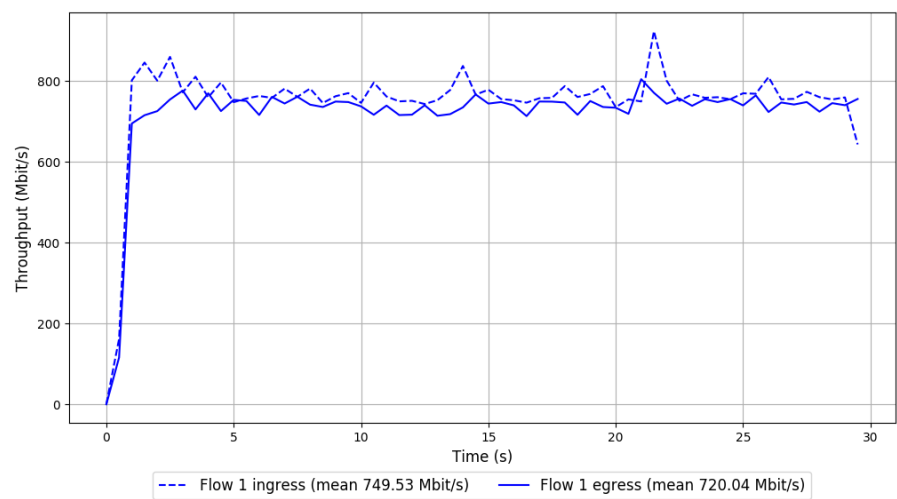
-- Flow 1:

Average throughput: 720.04 Mbit/s

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

Loss rate: 3.92%

Run 10: Report of FillP — Data Link

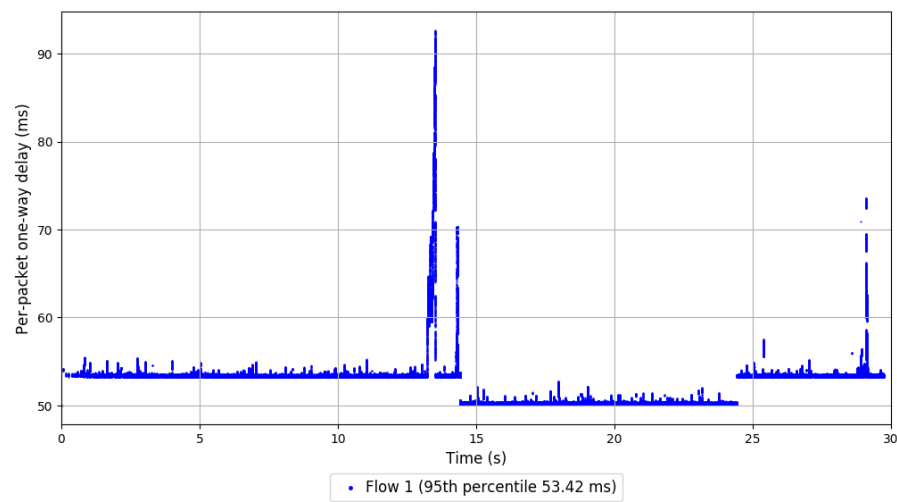
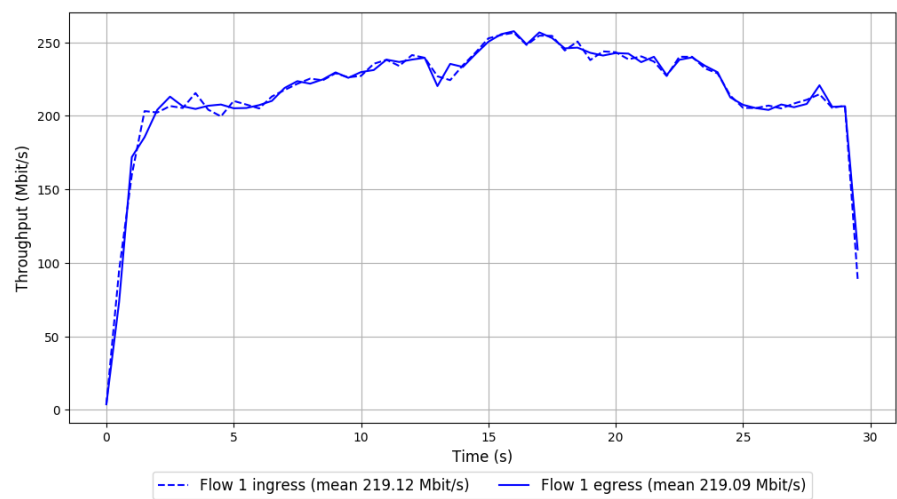


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 14:12:17
End at: 2018-04-10 14:12:47

# Below is generated by plot.py at 2018-04-10 19:08:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.09 Mbit/s
95th percentile per-packet one-way delay: 53.421 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.09 Mbit/s
95th percentile per-packet one-way delay: 53.421 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 14:26:36

End at: 2018-04-10 14:27:06

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.45 Mbit/s

95th percentile per-packet one-way delay: 53.461 ms

Loss rate: 0.00%

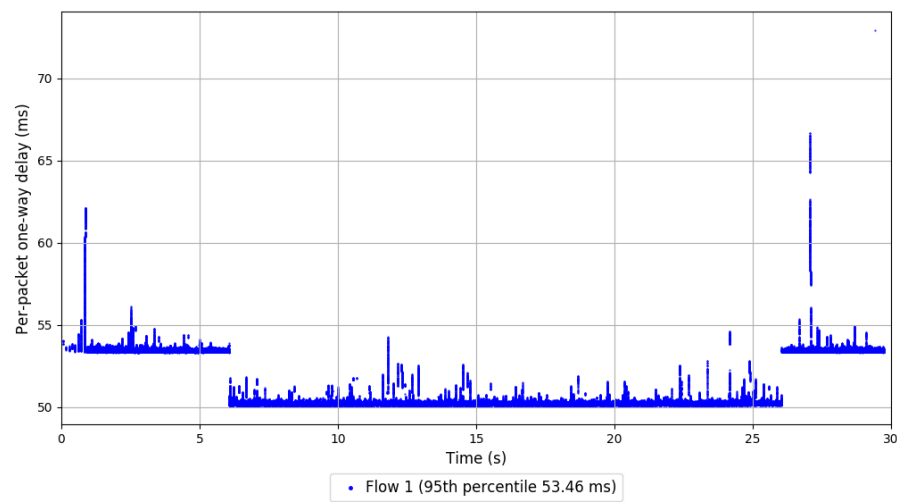
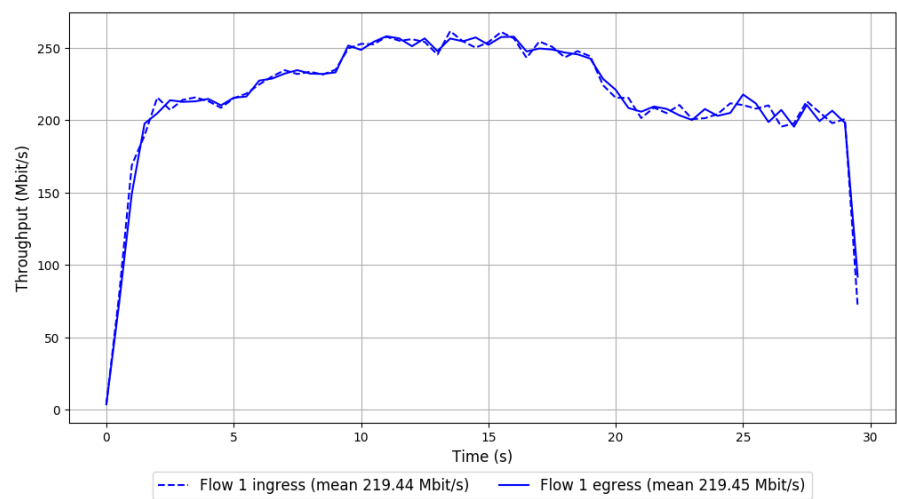
-- Flow 1:

Average throughput: 219.45 Mbit/s

95th percentile per-packet one-way delay: 53.461 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 14:40:51

End at: 2018-04-10 14:41:21

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.81 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.00%

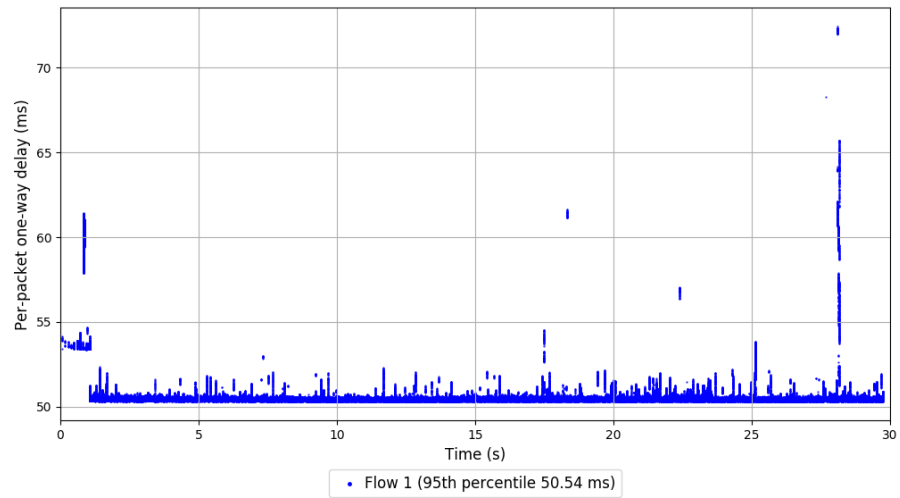
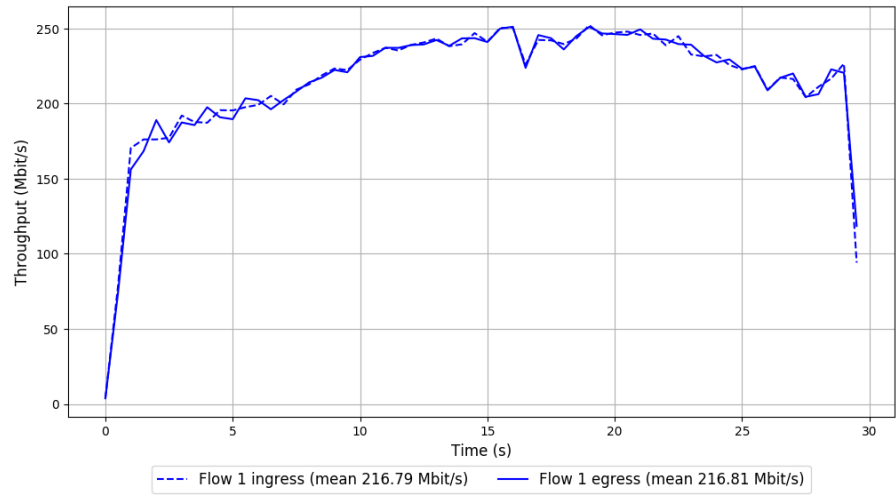
-- Flow 1:

Average throughput: 216.81 Mbit/s

95th percentile per-packet one-way delay: 50.537 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 14:55:03

End at: 2018-04-10 14:55:33

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.79 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.00%

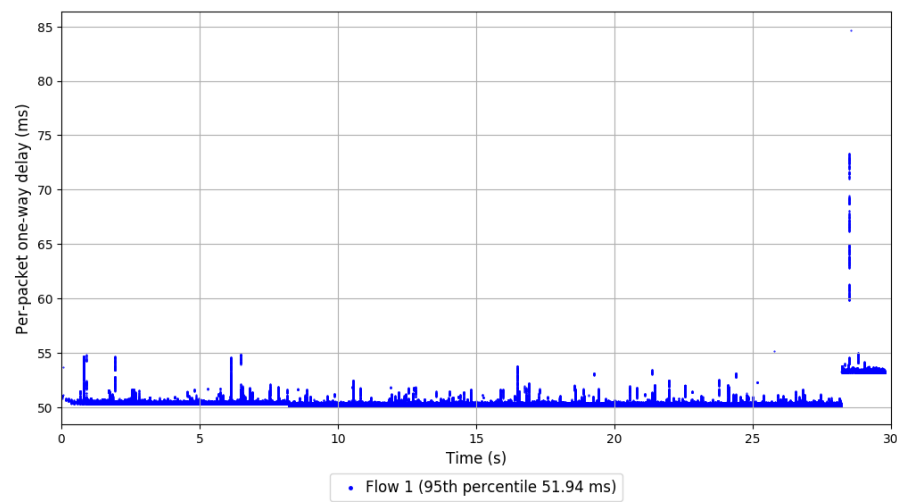
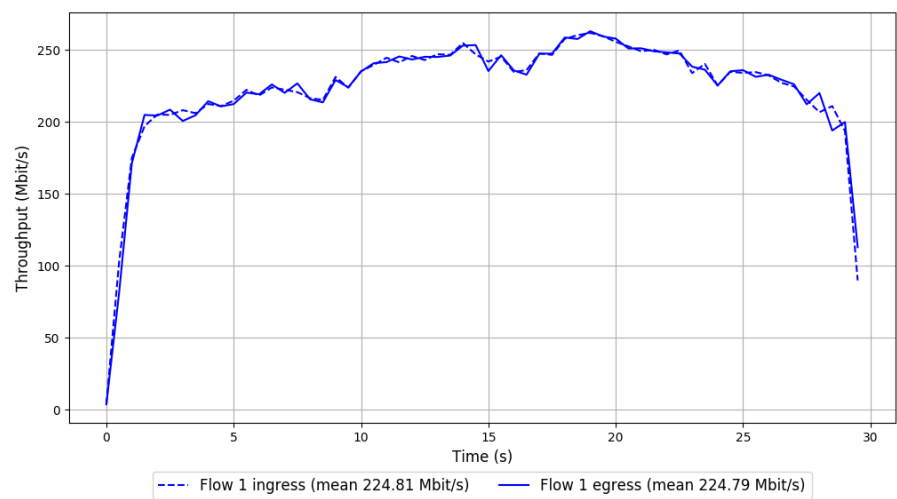
-- Flow 1:

Average throughput: 224.79 Mbit/s

95th percentile per-packet one-way delay: 51.936 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 15:09:40

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

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 53.124 ms

Loss rate: 0.00%

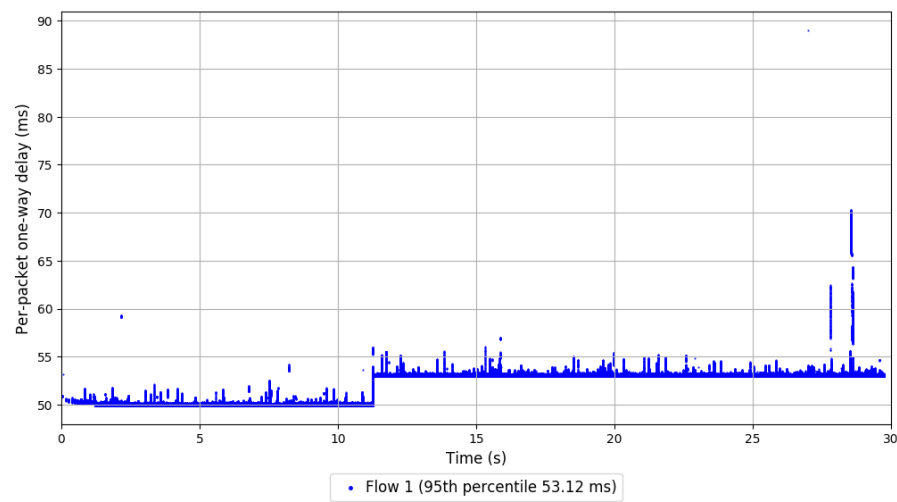
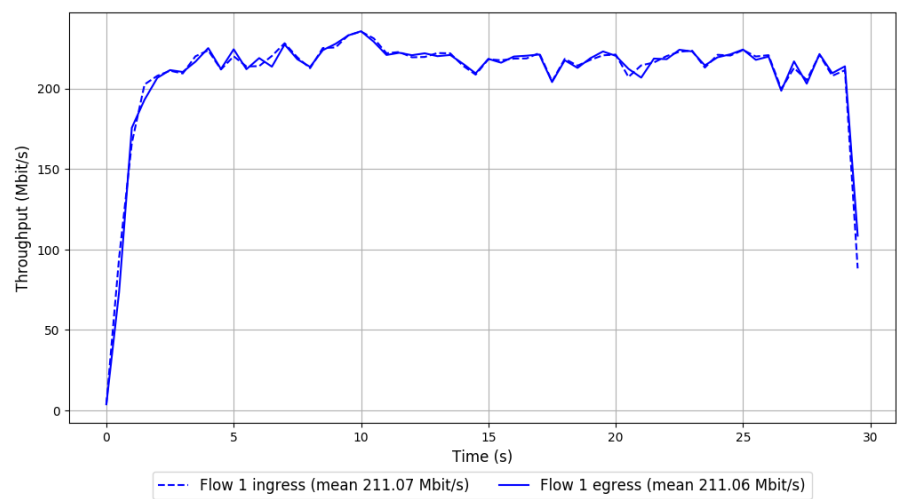
-- Flow 1:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 53.124 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 15:24:13

End at: 2018-04-10 15:24:43

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.17 Mbit/s

95th percentile per-packet one-way delay: 53.241 ms

Loss rate: 0.00%

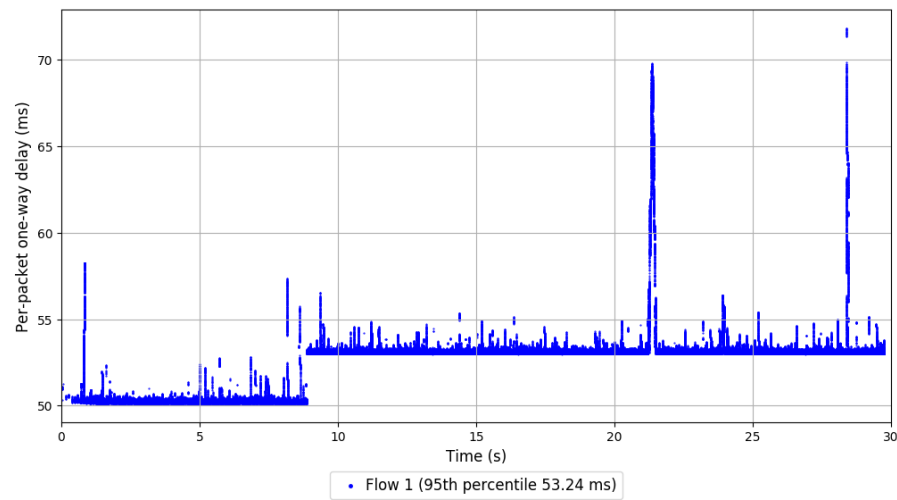
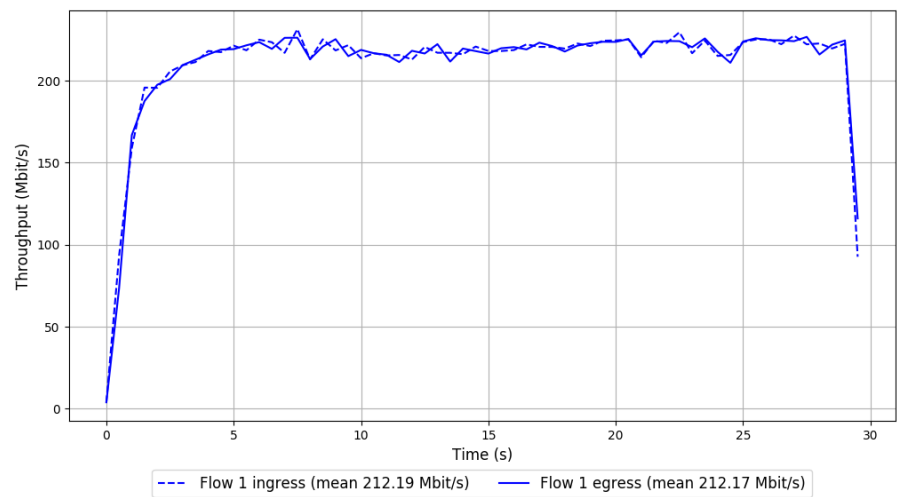
-- Flow 1:

Average throughput: 212.17 Mbit/s

95th percentile per-packet one-way delay: 53.241 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 15:38:43

End at: 2018-04-10 15:39:13

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.97 Mbit/s

95th percentile per-packet one-way delay: 53.209 ms

Loss rate: 0.00%

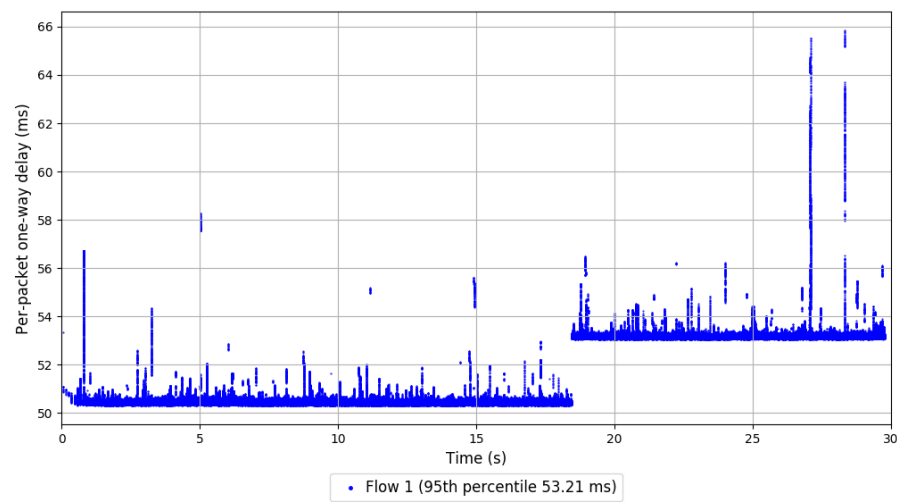
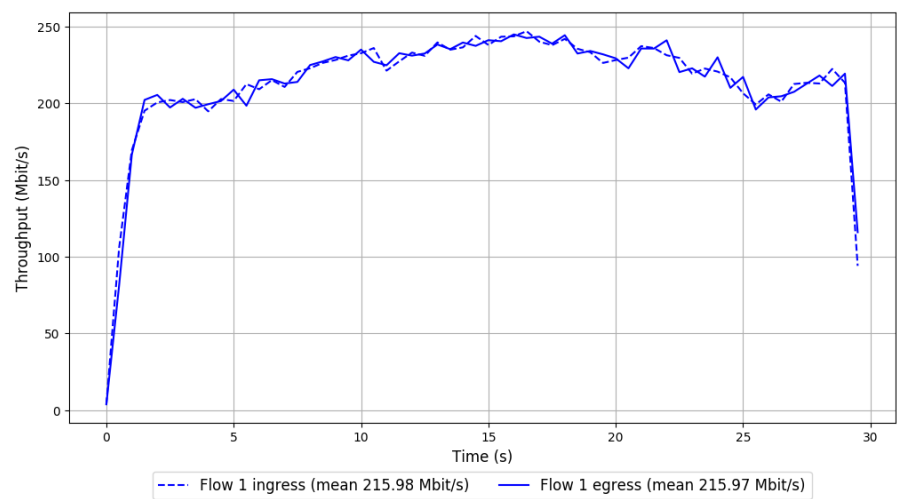
-- Flow 1:

Average throughput: 215.97 Mbit/s

95th percentile per-packet one-way delay: 53.209 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-10 15:52:48

End at: 2018-04-10 15:53:18

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.09 Mbit/s

95th percentile per-packet one-way delay: 53.233 ms

Loss rate: 0.00%

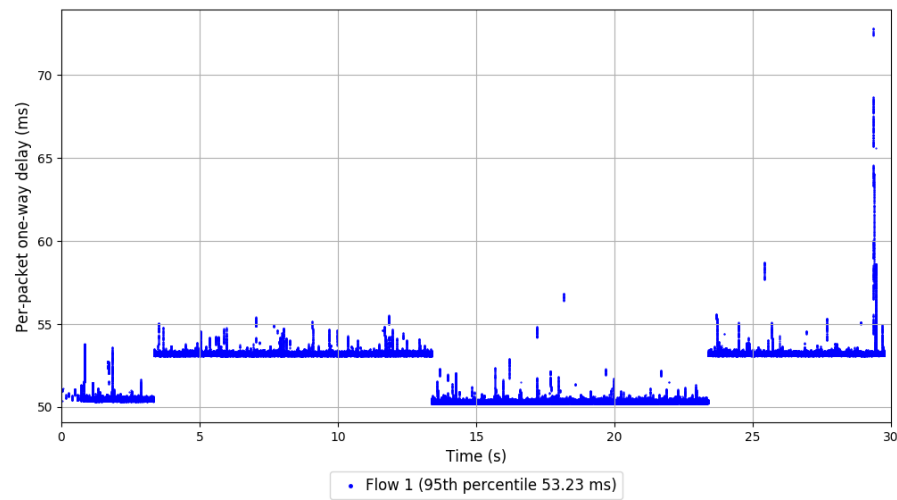
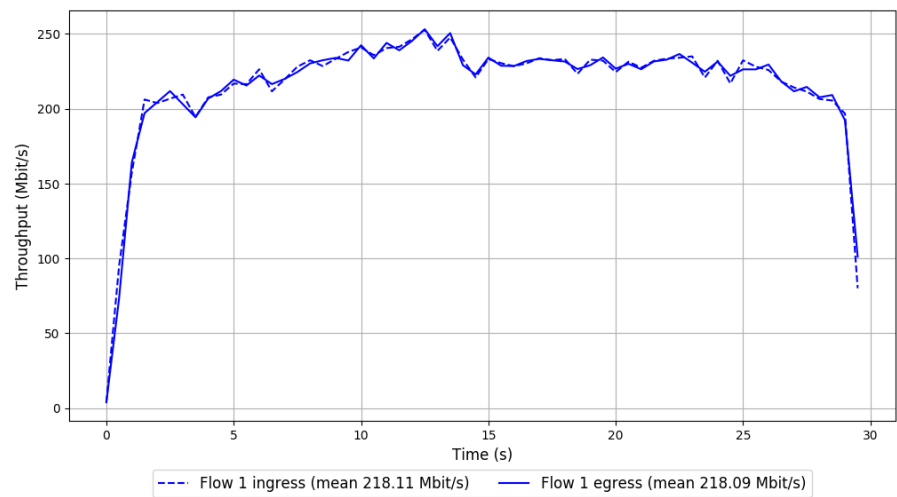
-- Flow 1:

Average throughput: 218.09 Mbit/s

95th percentile per-packet one-way delay: 53.233 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-10 16:07:18

End at: 2018-04-10 16:07:49

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.07 Mbit/s

95th percentile per-packet one-way delay: 50.637 ms

Loss rate: 0.00%

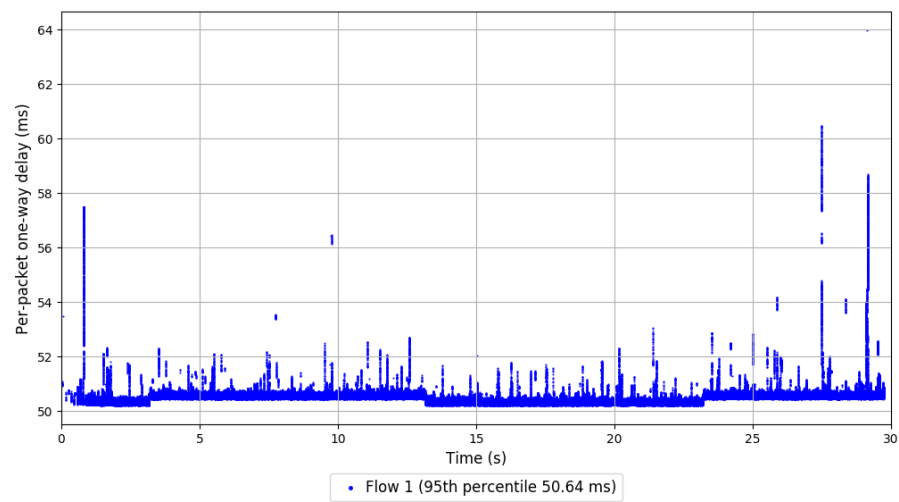
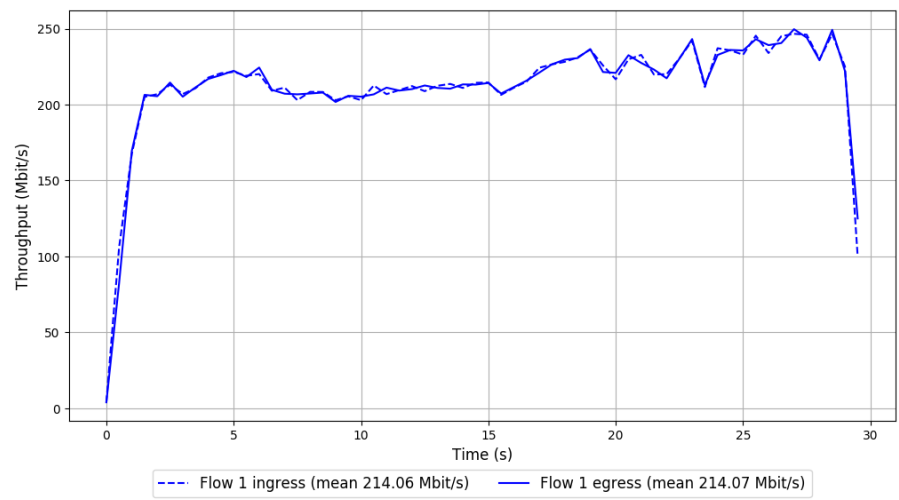
-- Flow 1:

Average throughput: 214.07 Mbit/s

95th percentile per-packet one-way delay: 50.637 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-10 16:21:35

End at: 2018-04-10 16:22:05

Below is generated by plot.py at 2018-04-10 19:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.45 Mbit/s

95th percentile per-packet one-way delay: 50.484 ms

Loss rate: 0.00%

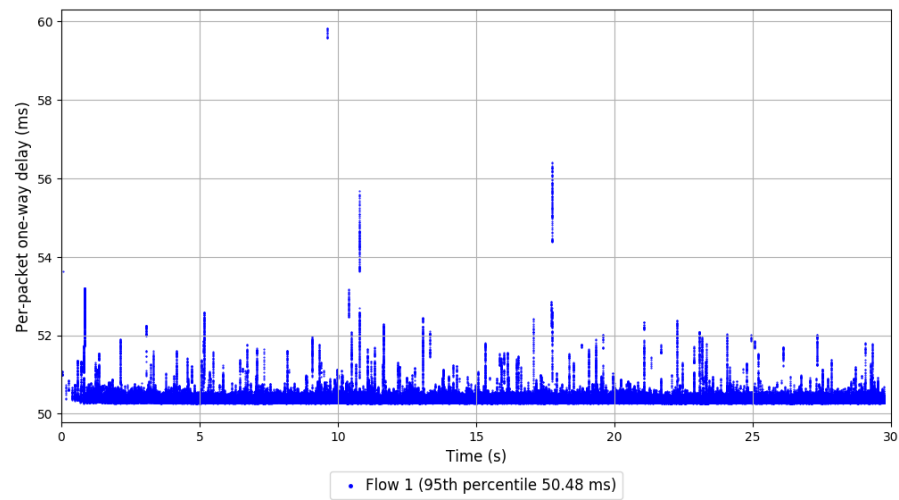
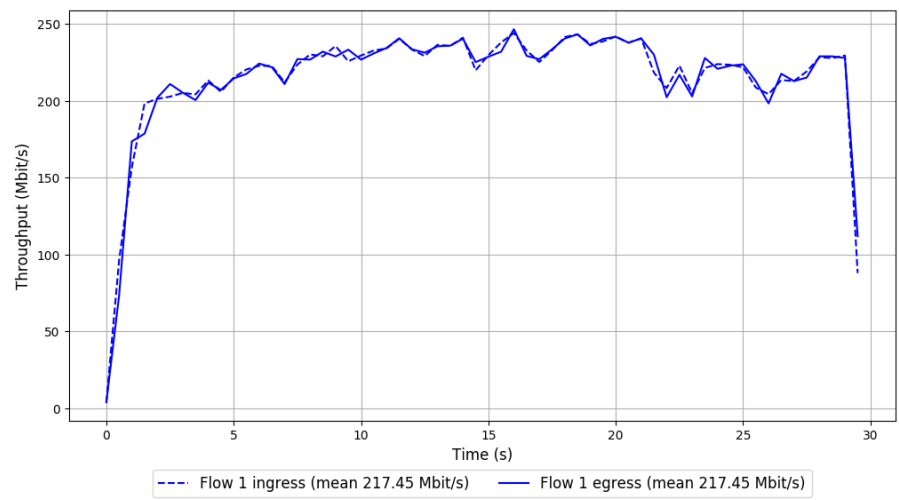
-- Flow 1:

Average throughput: 217.45 Mbit/s

95th percentile per-packet one-way delay: 50.484 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 14:14:32

End at: 2018-04-10 14:15:02

Below is generated by plot.py at 2018-04-10 19:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.14 Mbit/s

95th percentile per-packet one-way delay: 58.320 ms

Loss rate: 0.00%

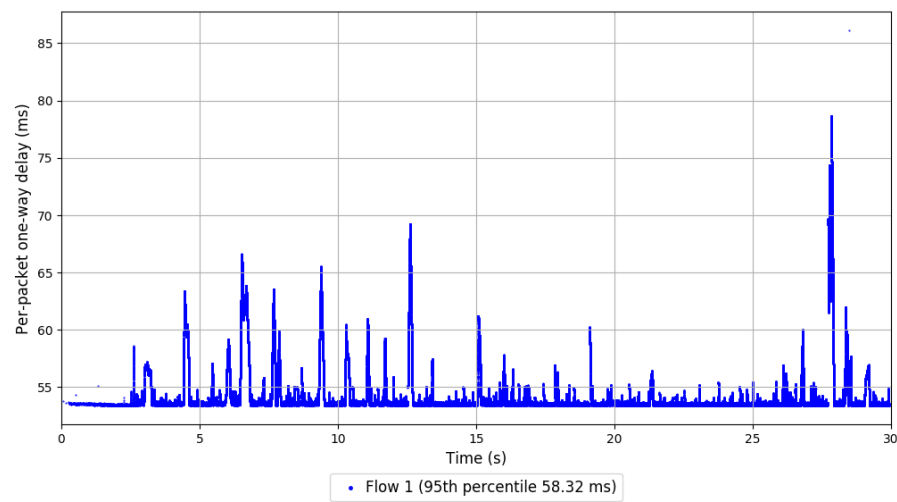
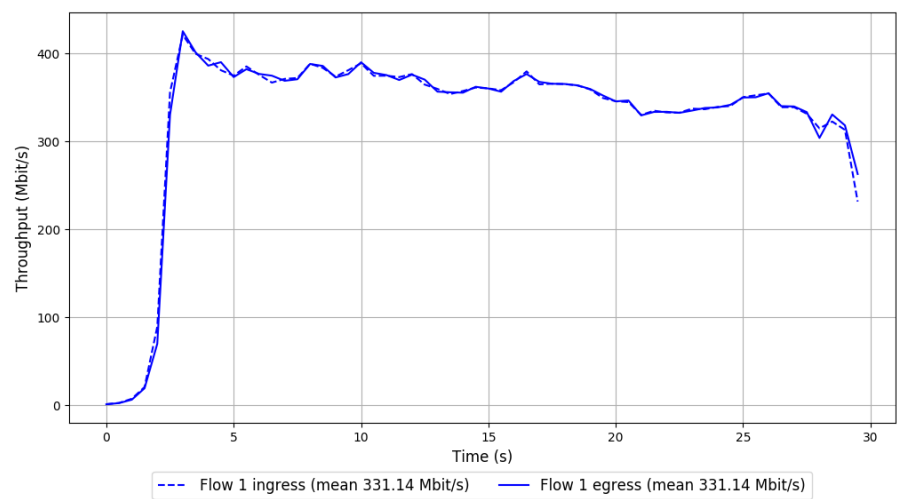
-- Flow 1:

Average throughput: 331.14 Mbit/s

95th percentile per-packet one-way delay: 58.320 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 14:28:48

End at: 2018-04-10 14:29:18

Below is generated by plot.py at 2018-04-10 19:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.36 Mbit/s

95th percentile per-packet one-way delay: 56.123 ms

Loss rate: 0.00%

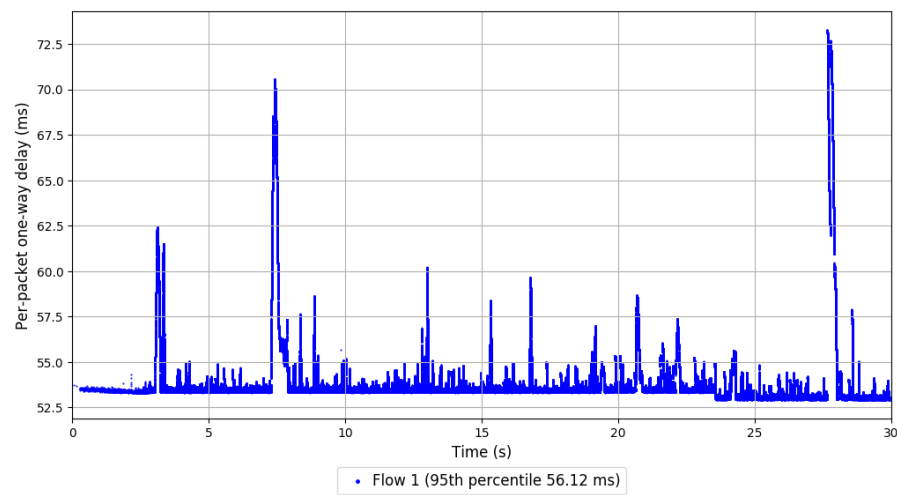
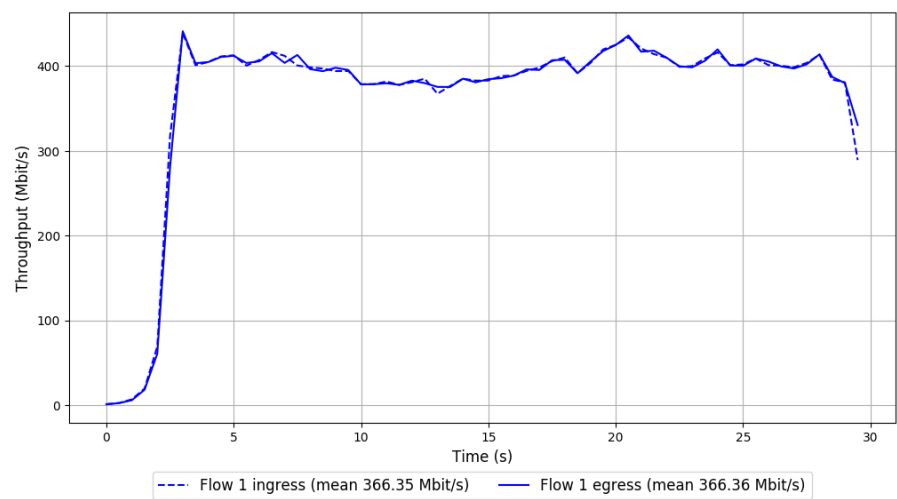
-- Flow 1:

Average throughput: 366.36 Mbit/s

95th percentile per-packet one-way delay: 56.123 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 14:43:07

End at: 2018-04-10 14:43:37

Below is generated by plot.py at 2018-04-10 19:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.15 Mbit/s

95th percentile per-packet one-way delay: 61.884 ms

Loss rate: 0.00%

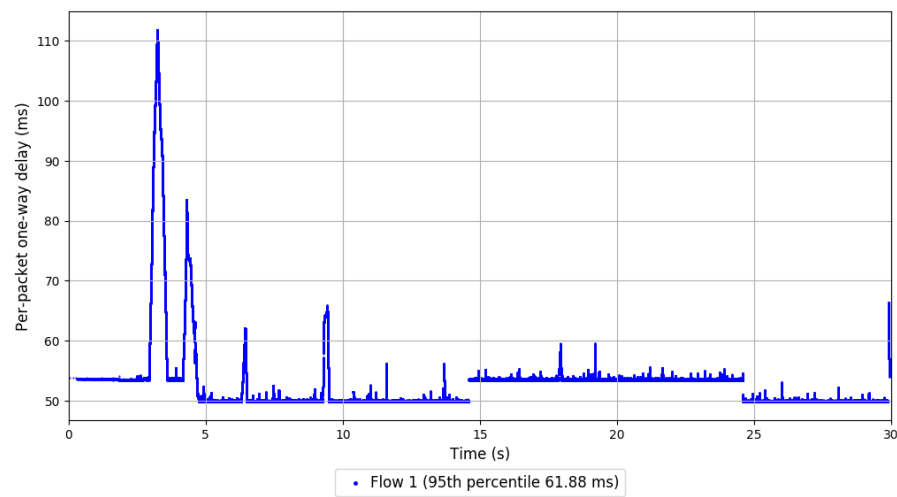
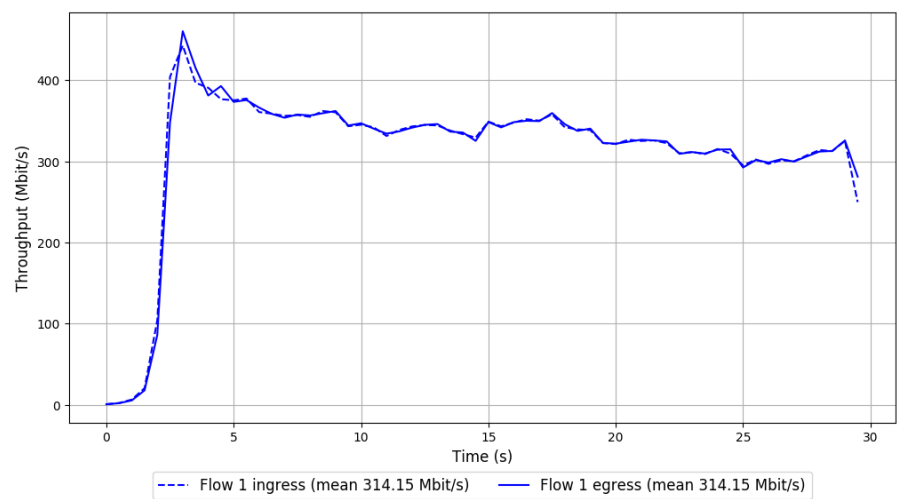
-- Flow 1:

Average throughput: 314.15 Mbit/s

95th percentile per-packet one-way delay: 61.884 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 14:57:19

End at: 2018-04-10 14:57:50

Below is generated by plot.py at 2018-04-10 19:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.52 Mbit/s

95th percentile per-packet one-way delay: 56.849 ms

Loss rate: 0.00%

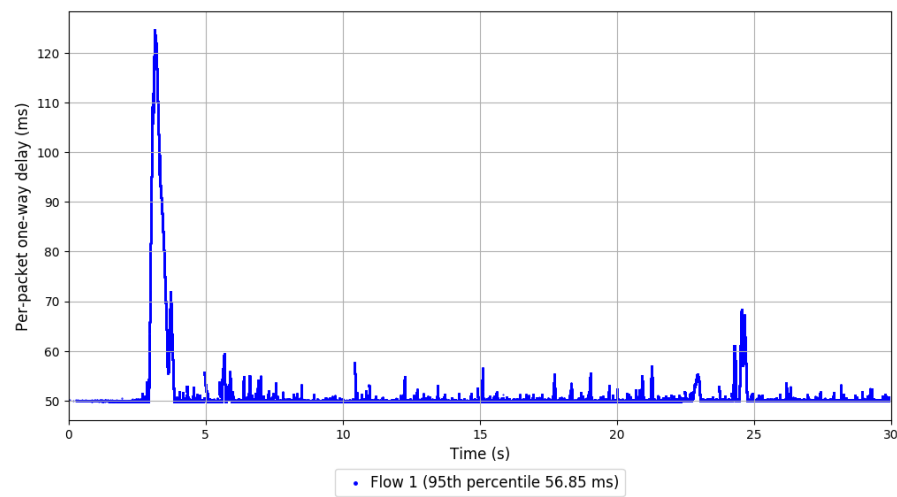
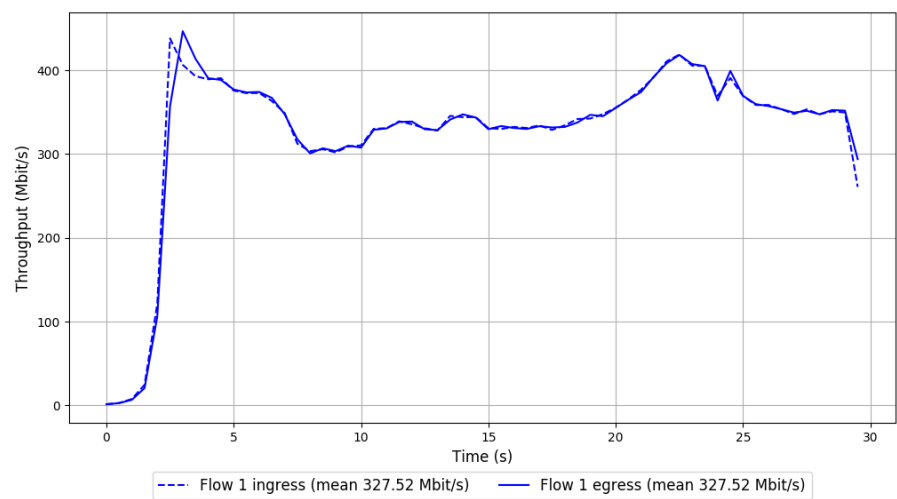
-- Flow 1:

Average throughput: 327.52 Mbit/s

95th percentile per-packet one-way delay: 56.849 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 15:11:56

End at: 2018-04-10 15:12:26

Below is generated by plot.py at 2018-04-10 19:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.50 Mbit/s

95th percentile per-packet one-way delay: 60.322 ms

Loss rate: 0.00%

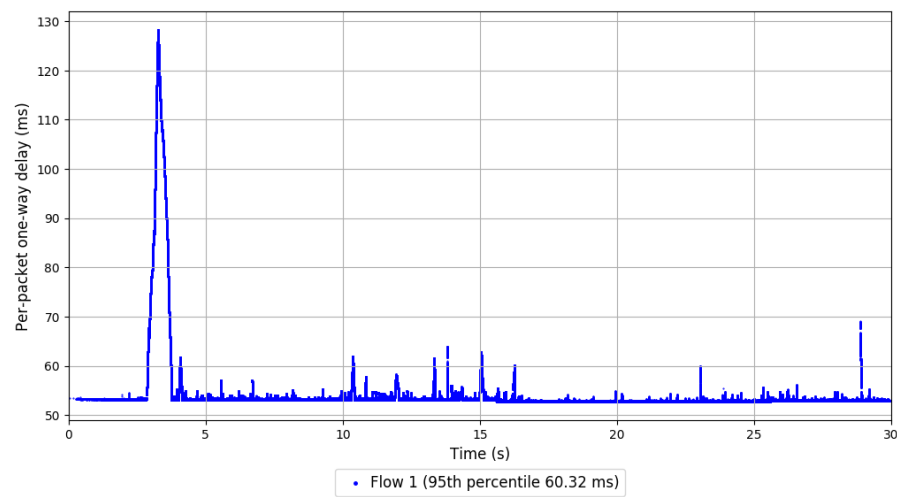
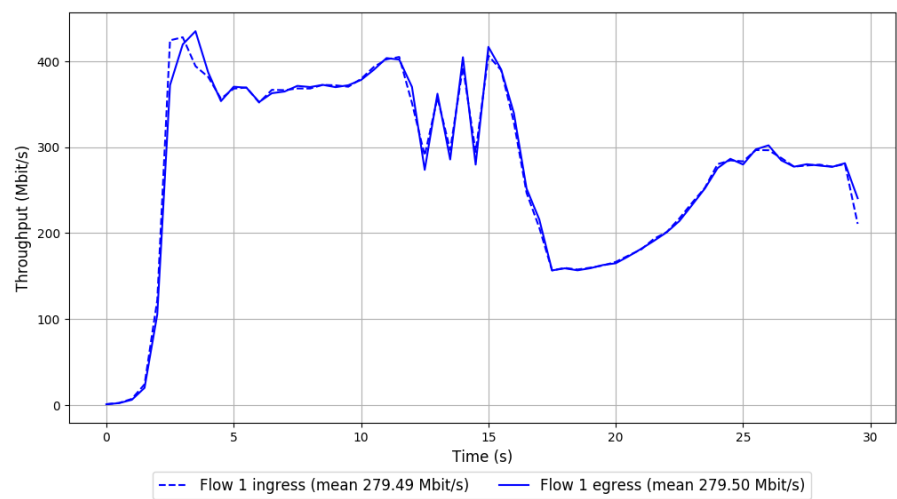
-- Flow 1:

Average throughput: 279.50 Mbit/s

95th percentile per-packet one-way delay: 60.322 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 15:26:29

End at: 2018-04-10 15:26:59

Below is generated by plot.py at 2018-04-10 19:12:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.10 Mbit/s

95th percentile per-packet one-way delay: 59.446 ms

Loss rate: 0.00%

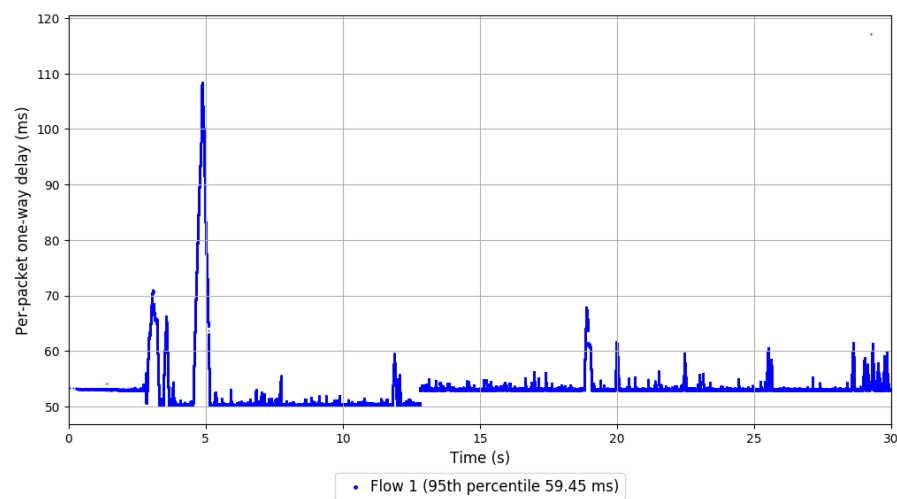
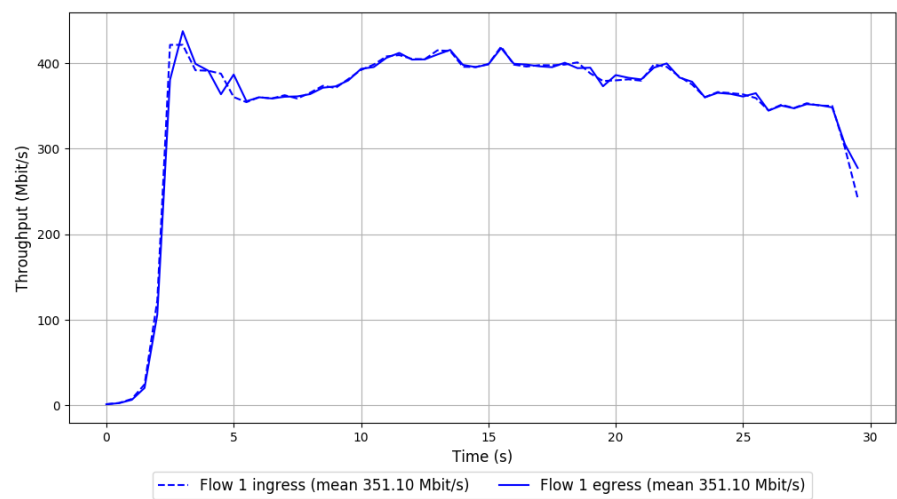
-- Flow 1:

Average throughput: 351.10 Mbit/s

95th percentile per-packet one-way delay: 59.446 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 15:41:02

End at: 2018-04-10 15:41:32

Below is generated by plot.py at 2018-04-10 19:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.57 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.00%

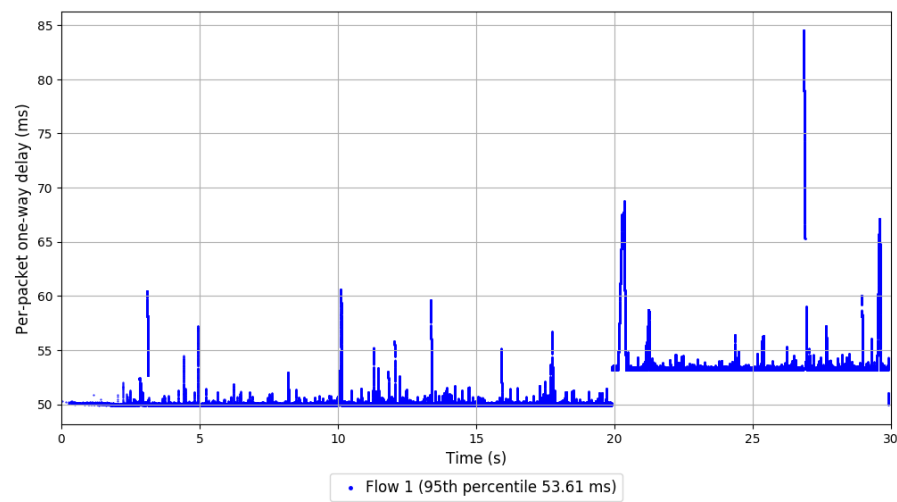
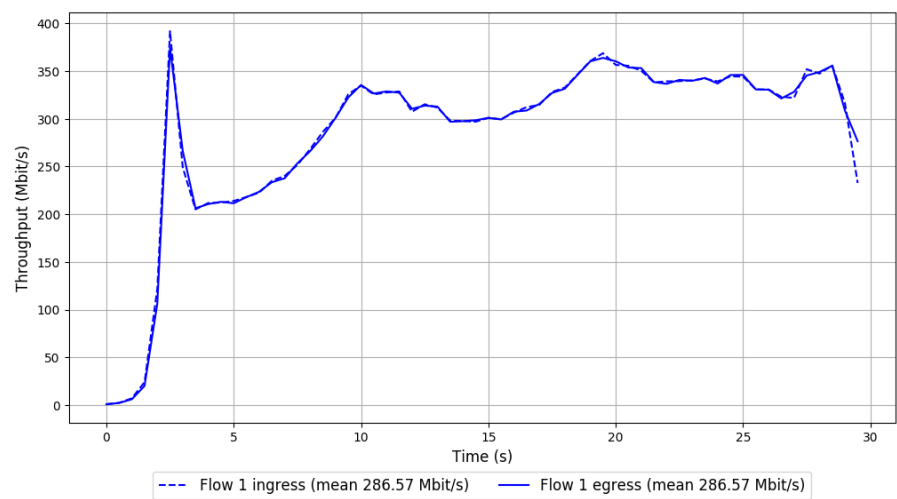
-- Flow 1:

Average throughput: 286.57 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-10 15:55:06

End at: 2018-04-10 15:55:36

Below is generated by plot.py at 2018-04-10 19:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.41 Mbit/s

95th percentile per-packet one-way delay: 59.032 ms

Loss rate: 0.00%

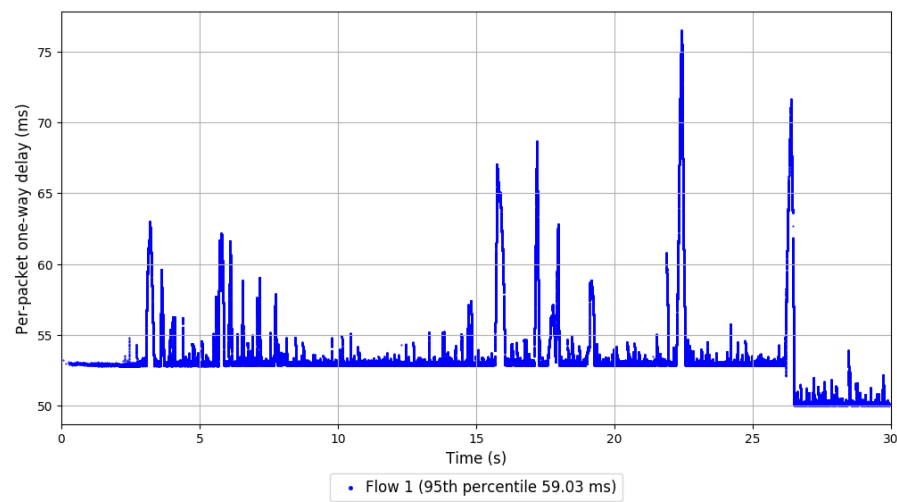
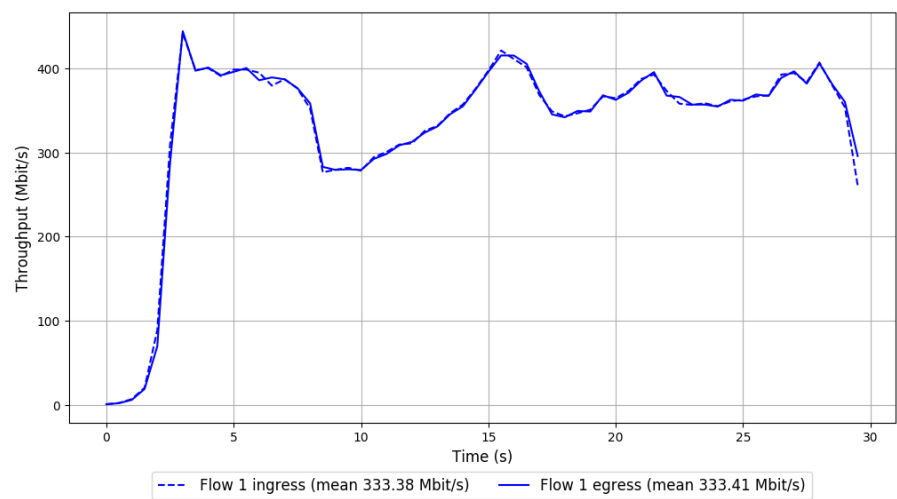
-- Flow 1:

Average throughput: 333.41 Mbit/s

95th percentile per-packet one-way delay: 59.032 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-10 16:09:33

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

Below is generated by plot.py at 2018-04-10 19:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.35 Mbit/s

95th percentile per-packet one-way delay: 54.588 ms

Loss rate: 0.00%

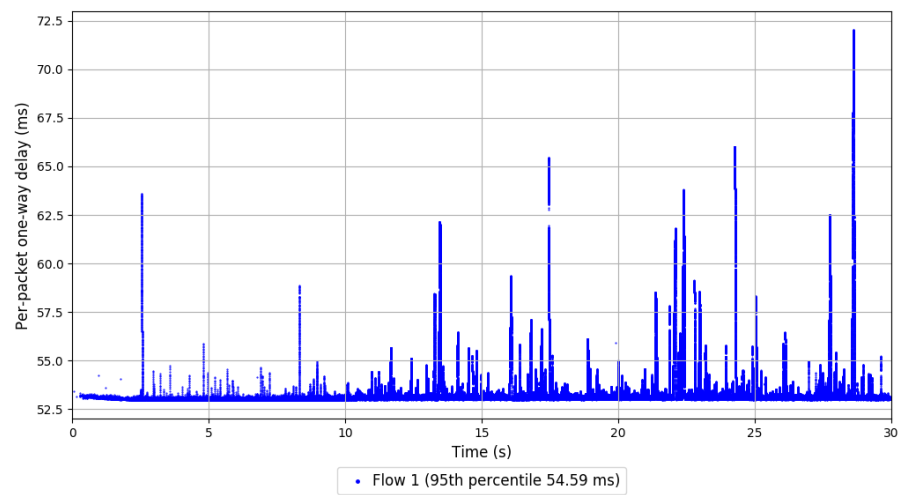
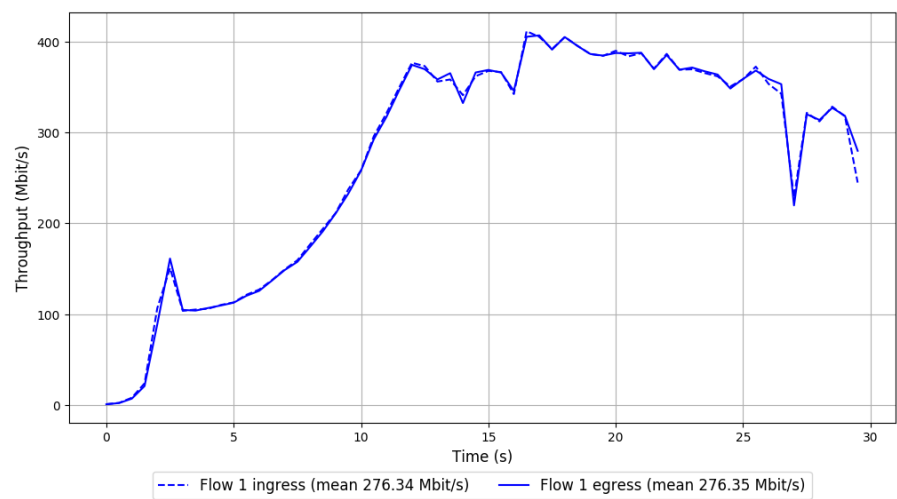
-- Flow 1:

Average throughput: 276.35 Mbit/s

95th percentile per-packet one-way delay: 54.588 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-10 16:23:50

End at: 2018-04-10 16:24:20

Below is generated by plot.py at 2018-04-10 19:15:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.58 Mbit/s

95th percentile per-packet one-way delay: 60.917 ms

Loss rate: 0.00%

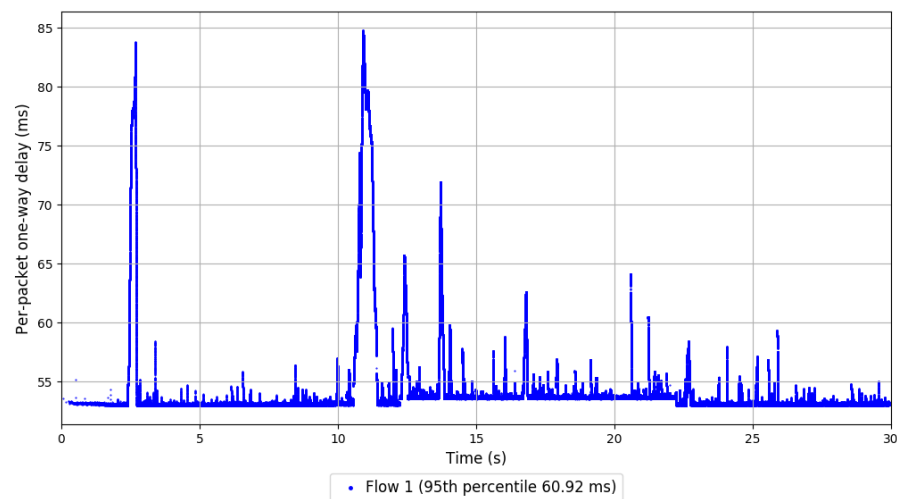
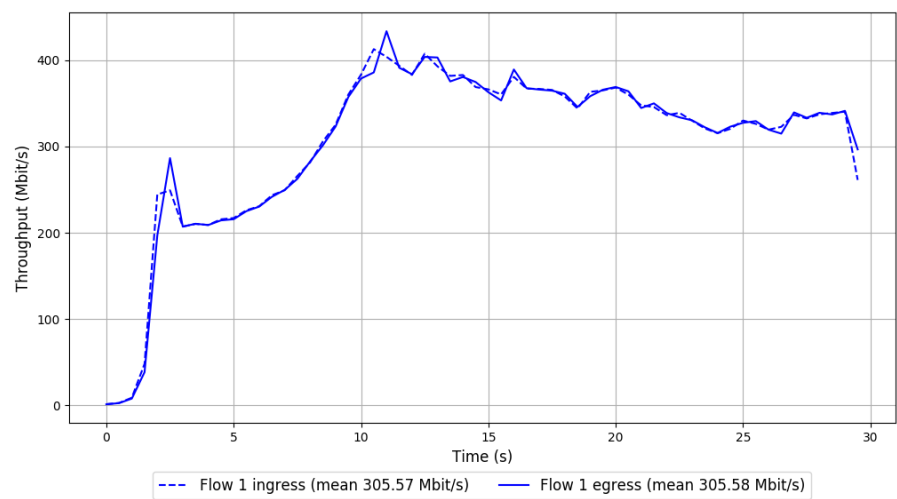
-- Flow 1:

Average throughput: 305.58 Mbit/s

95th percentile per-packet one-way delay: 60.917 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

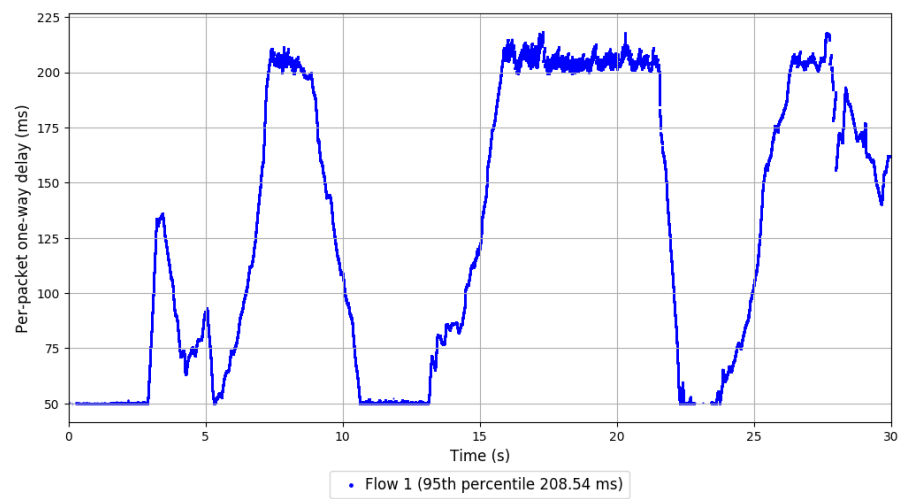
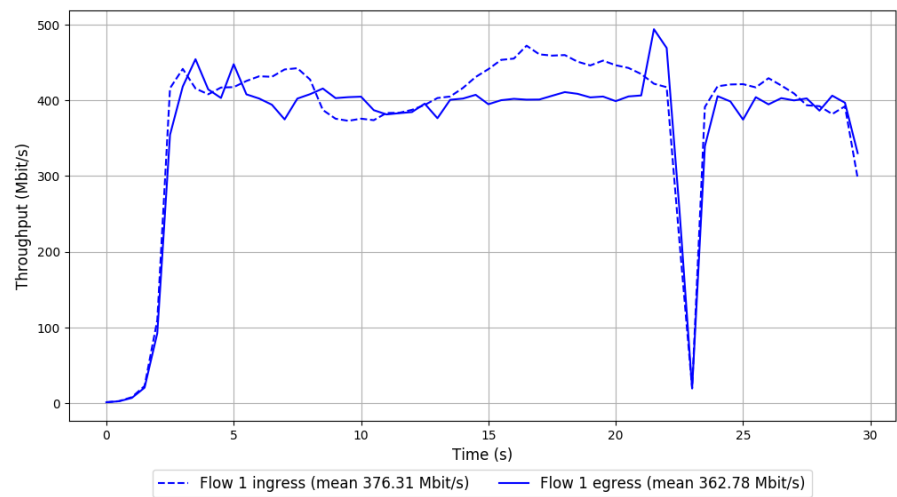


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 14:15:30
End at: 2018-04-10 14:16:00

# Below is generated by plot.py at 2018-04-10 19:15:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.78 Mbit/s
95th percentile per-packet one-way delay: 208.536 ms
Loss rate: 3.58%
-- Flow 1:
Average throughput: 362.78 Mbit/s
95th percentile per-packet one-way delay: 208.536 ms
Loss rate: 3.58%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 14:29:49

End at: 2018-04-10 14:30:19

Below is generated by plot.py at 2018-04-10 19:16:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.37 Mbit/s

95th percentile per-packet one-way delay: 100.273 ms

Loss rate: 0.00%

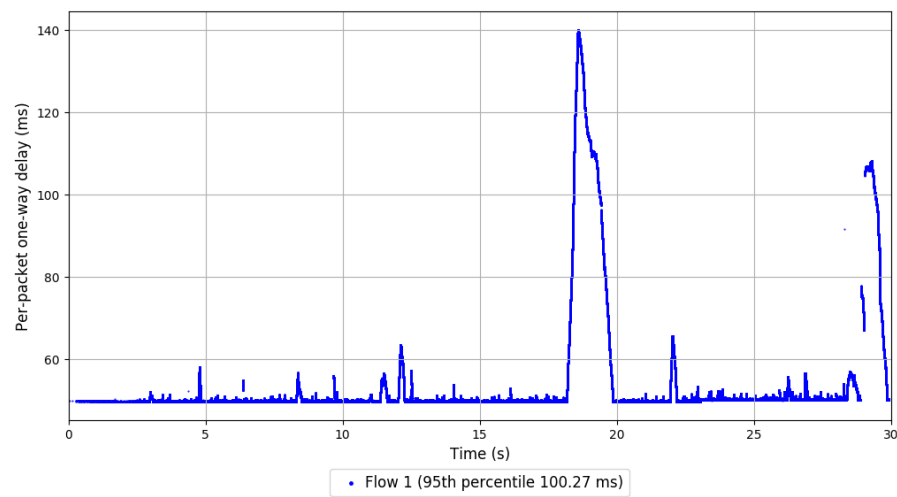
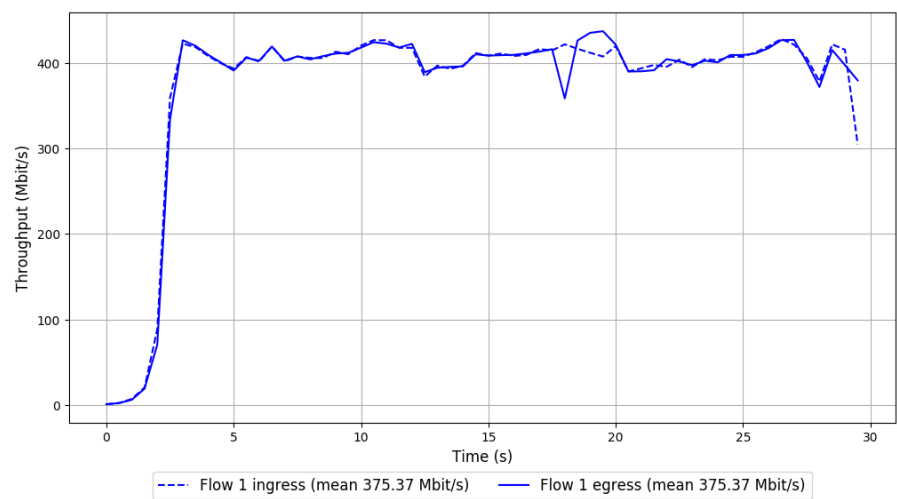
-- Flow 1:

Average throughput: 375.37 Mbit/s

95th percentile per-packet one-way delay: 100.273 ms

Loss rate: 0.00%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 14:44:05

End at: 2018-04-10 14:44:35

Below is generated by plot.py at 2018-04-10 19:16:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.27 Mbit/s

95th percentile per-packet one-way delay: 192.079 ms

Loss rate: 0.88%

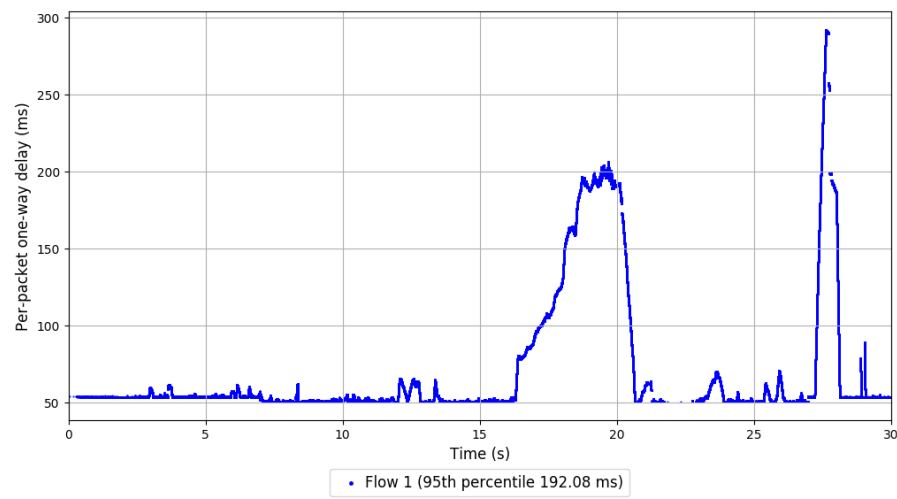
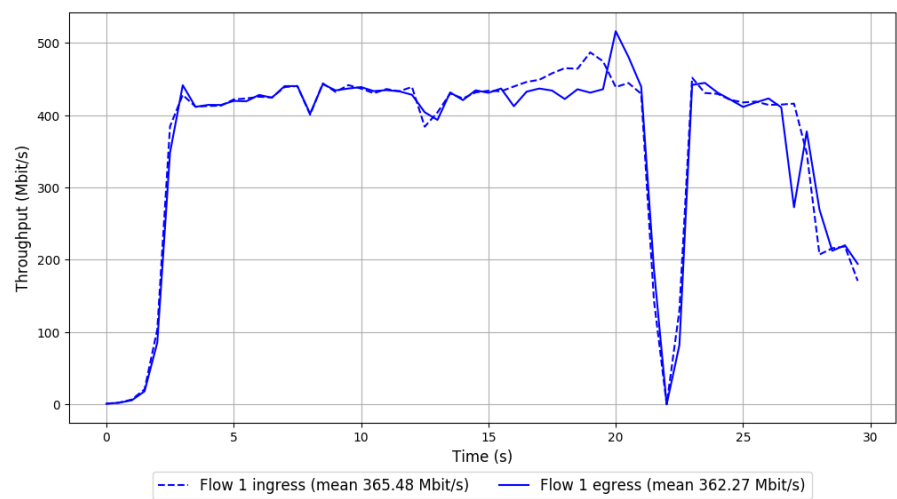
-- Flow 1:

Average throughput: 362.27 Mbit/s

95th percentile per-packet one-way delay: 192.079 ms

Loss rate: 0.88%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 14:58:18

End at: 2018-04-10 14:58:48

Below is generated by plot.py at 2018-04-10 19:19:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.65 Mbit/s

95th percentile per-packet one-way delay: 222.311 ms

Loss rate: 2.59%

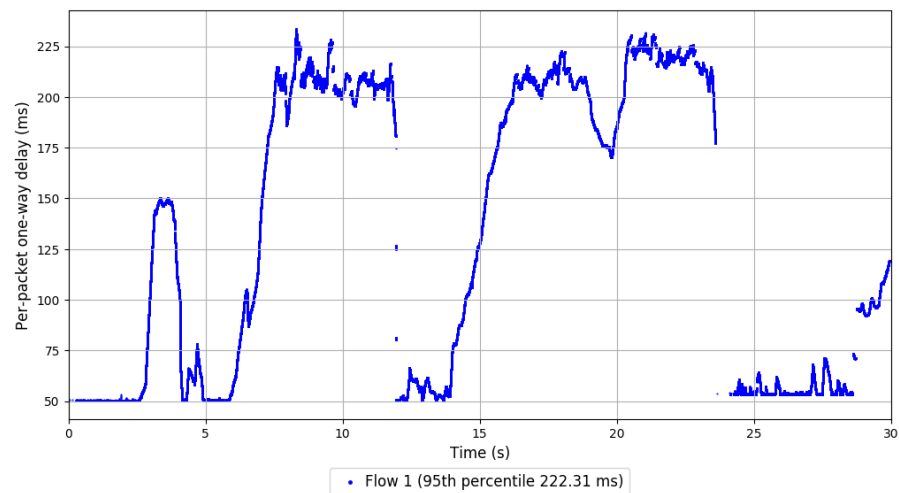
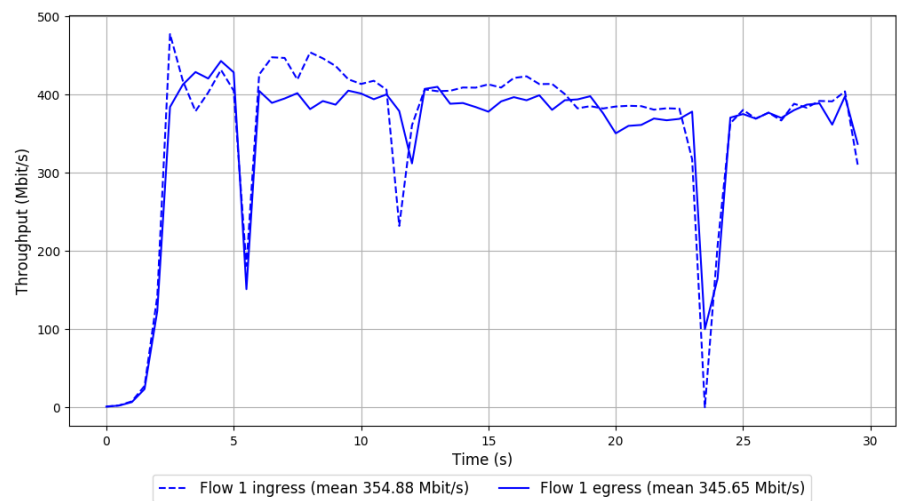
-- Flow 1:

Average throughput: 345.65 Mbit/s

95th percentile per-packet one-way delay: 222.311 ms

Loss rate: 2.59%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 15:12:52

End at: 2018-04-10 15:13:22

Below is generated by plot.py at 2018-04-10 19:20:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.98 Mbit/s

95th percentile per-packet one-way delay: 66.498 ms

Loss rate: 0.00%

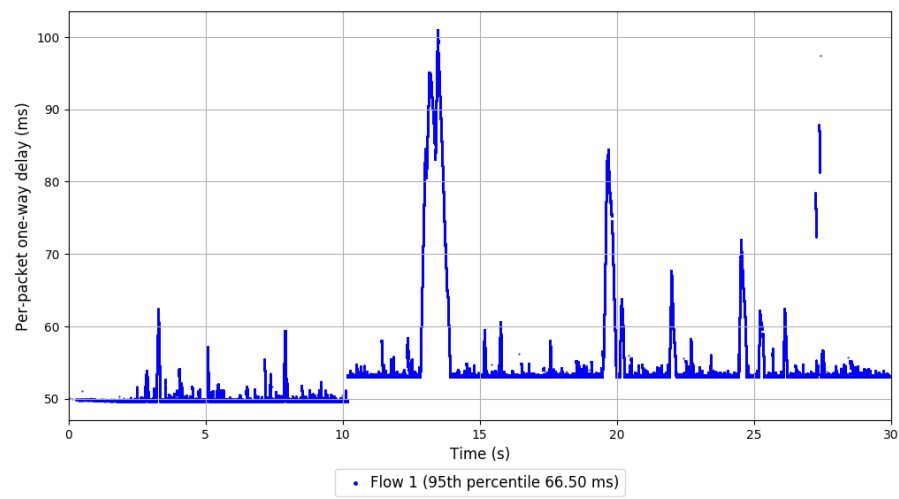
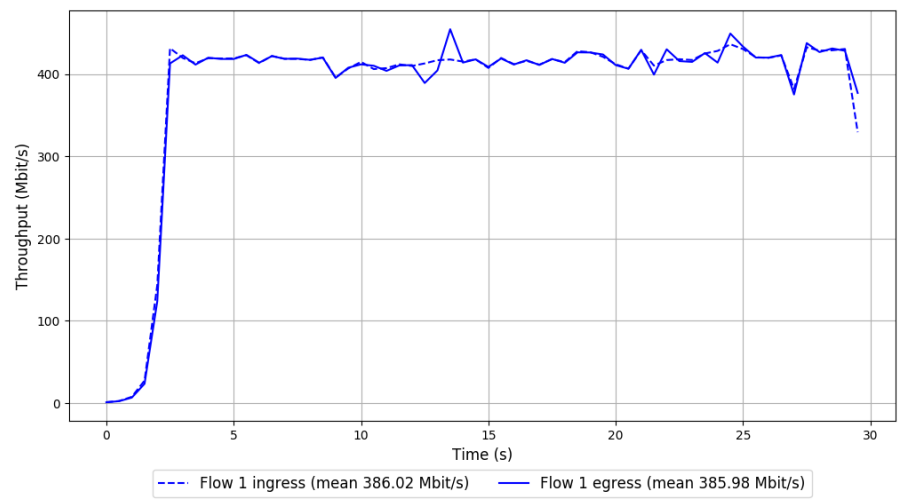
-- Flow 1:

Average throughput: 385.98 Mbit/s

95th percentile per-packet one-way delay: 66.498 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 15:27:30

End at: 2018-04-10 15:28:00

Below is generated by plot.py at 2018-04-10 19:20:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.56 Mbit/s

95th percentile per-packet one-way delay: 197.805 ms

Loss rate: 1.31%

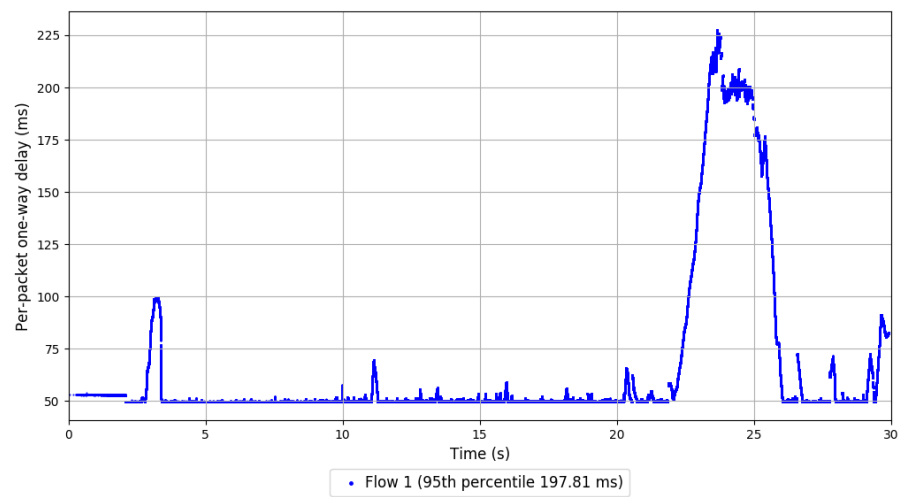
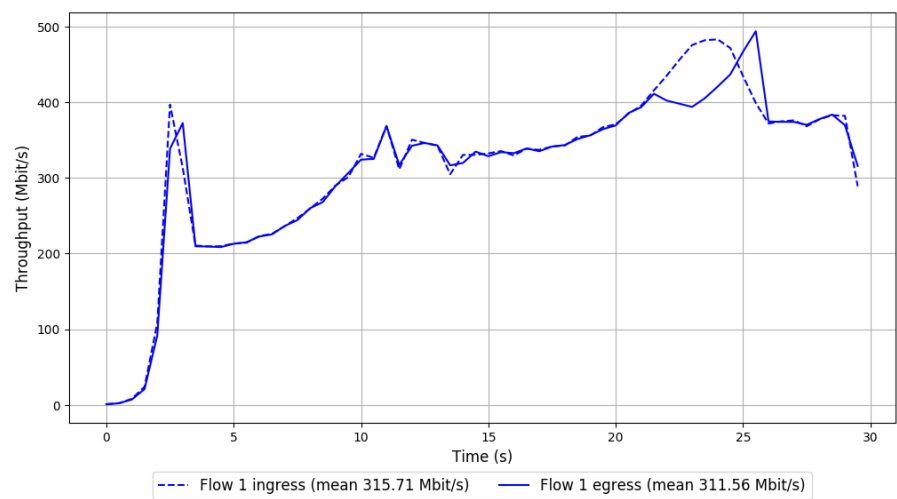
-- Flow 1:

Average throughput: 311.56 Mbit/s

95th percentile per-packet one-way delay: 197.805 ms

Loss rate: 1.31%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 15:41:57

End at: 2018-04-10 15:42:27

Below is generated by plot.py at 2018-04-10 19:20:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.10 Mbit/s

95th percentile per-packet one-way delay: 207.613 ms

Loss rate: 1.25%

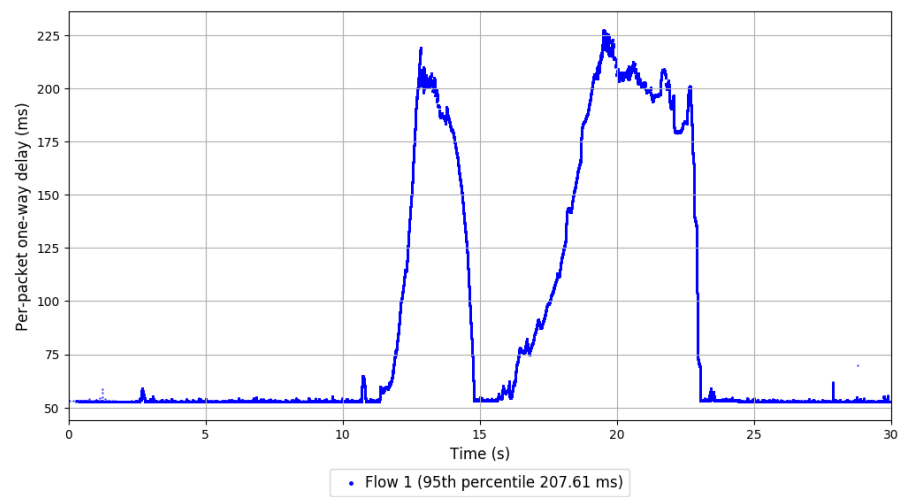
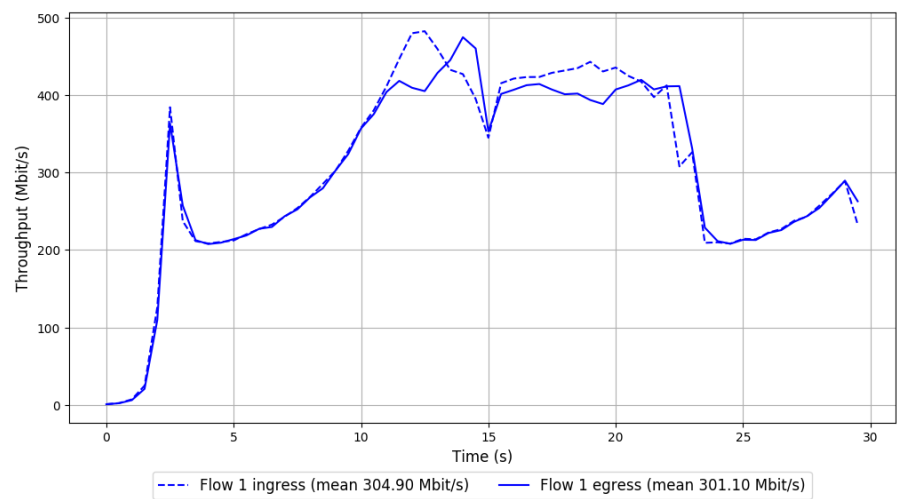
-- Flow 1:

Average throughput: 301.10 Mbit/s

95th percentile per-packet one-way delay: 207.613 ms

Loss rate: 1.25%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-10 15:56:04

End at: 2018-04-10 15:56:34

Below is generated by plot.py at 2018-04-10 19:21:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.27 Mbit/s

95th percentile per-packet one-way delay: 193.767 ms

Loss rate: 0.68%

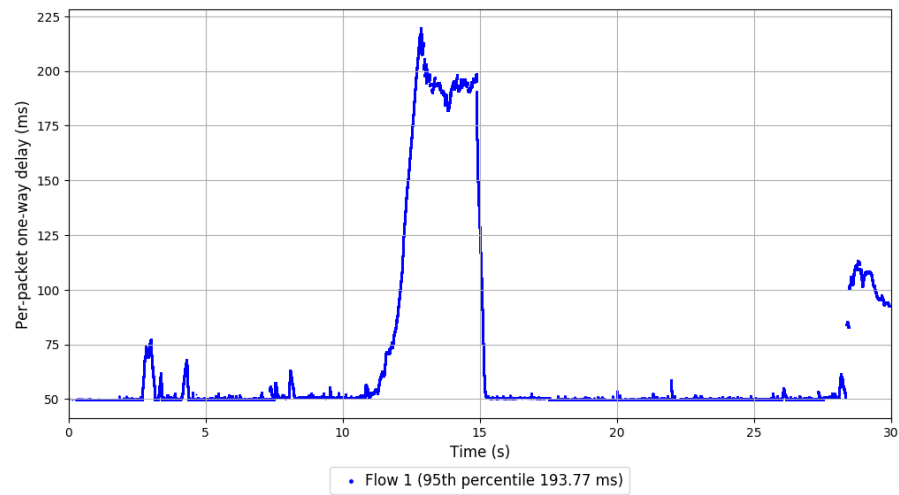
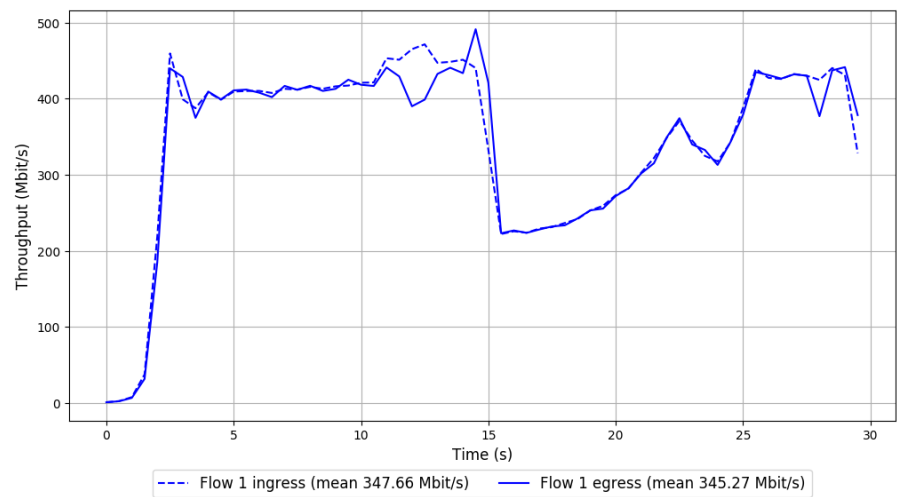
-- Flow 1:

Average throughput: 345.27 Mbit/s

95th percentile per-packet one-way delay: 193.767 ms

Loss rate: 0.68%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-10 16:10:29

End at: 2018-04-10 16:10:59

Below is generated by plot.py at 2018-04-10 19:23:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.75 Mbit/s

95th percentile per-packet one-way delay: 192.387 ms

Loss rate: 0.46%

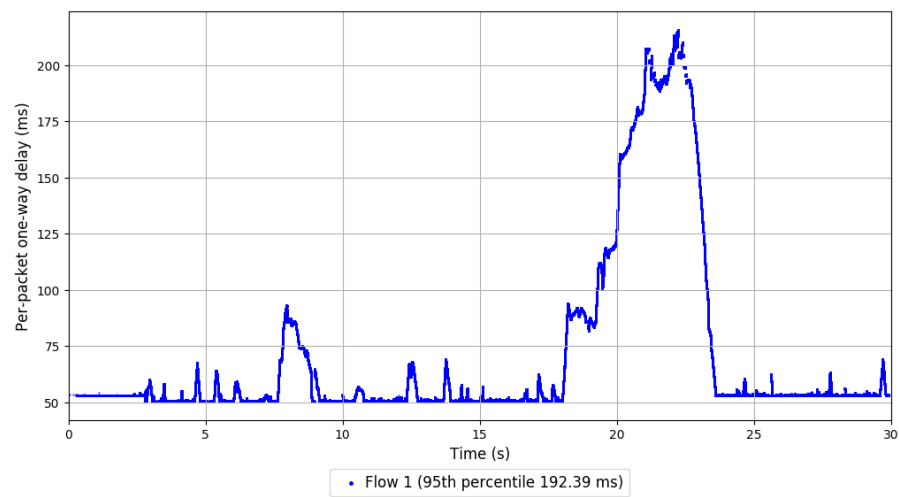
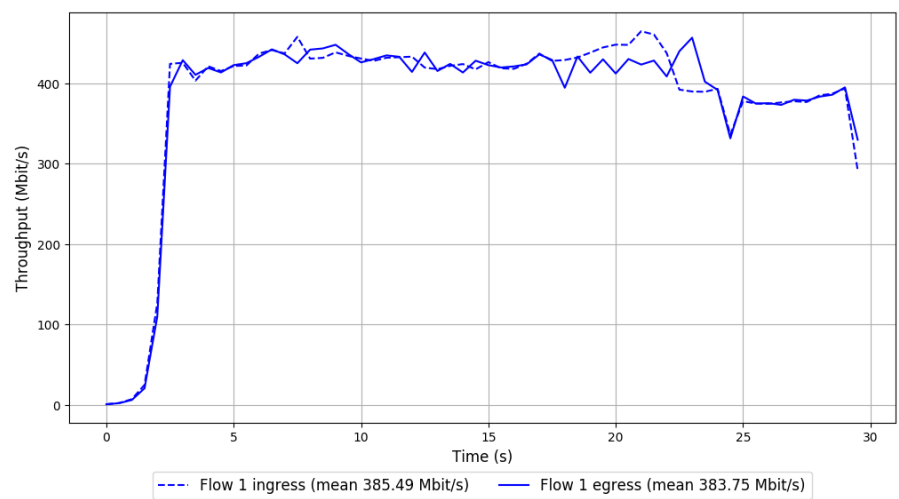
-- Flow 1:

Average throughput: 383.75 Mbit/s

95th percentile per-packet one-way delay: 192.387 ms

Loss rate: 0.46%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-10 16:24:47

End at: 2018-04-10 16:25:17

Below is generated by plot.py at 2018-04-10 19:23:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.70 Mbit/s

95th percentile per-packet one-way delay: 115.055 ms

Loss rate: 0.00%

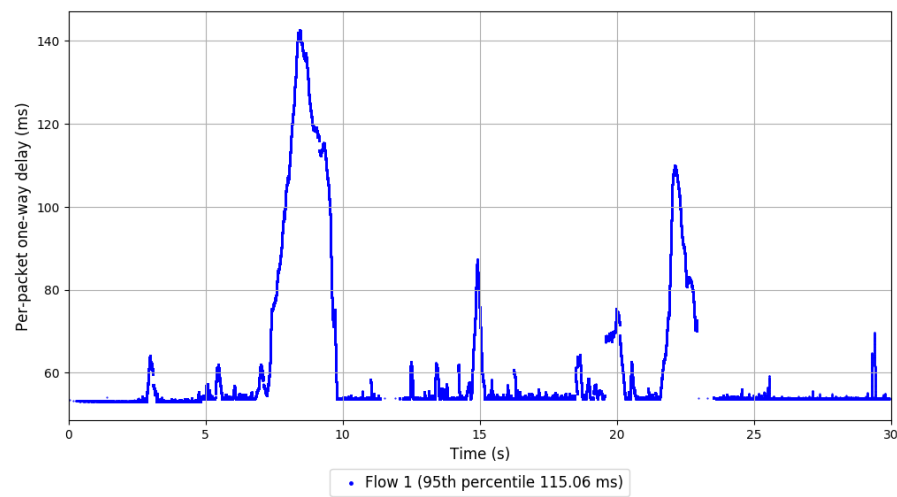
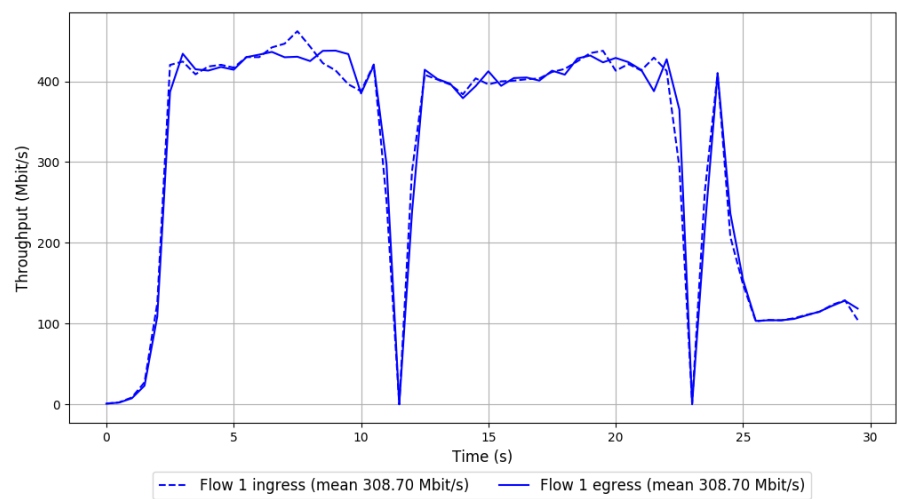
-- Flow 1:

Average throughput: 308.70 Mbit/s

95th percentile per-packet one-way delay: 115.055 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

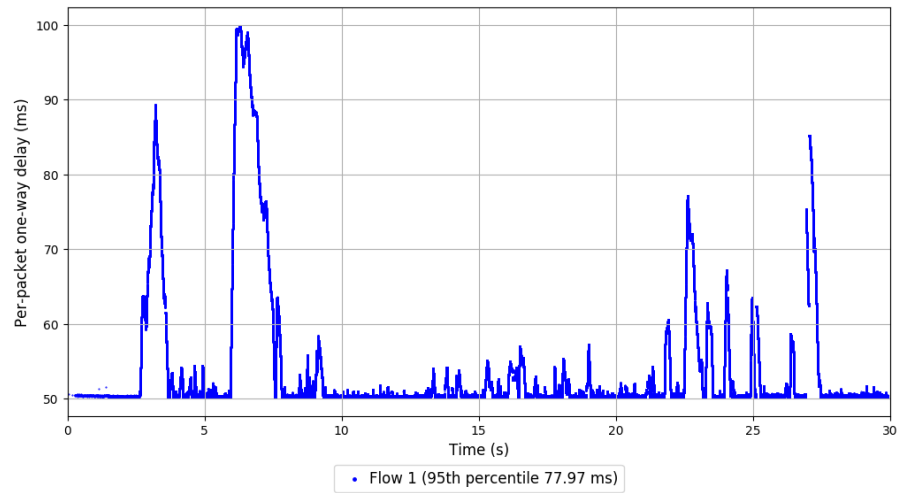
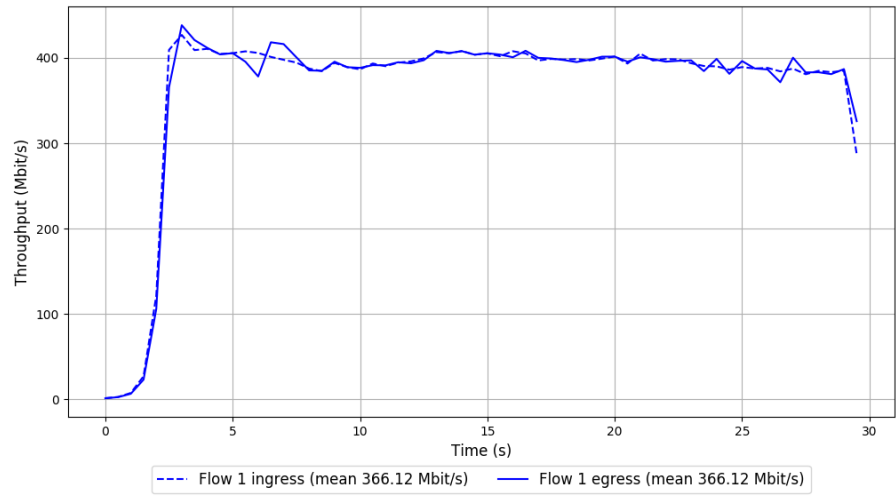


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 14:17:17
End at: 2018-04-10 14:17:47

# Below is generated by plot.py at 2018-04-10 19:23:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.12 Mbit/s
95th percentile per-packet one-way delay: 77.968 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 366.12 Mbit/s
95th percentile per-packet one-way delay: 77.968 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link

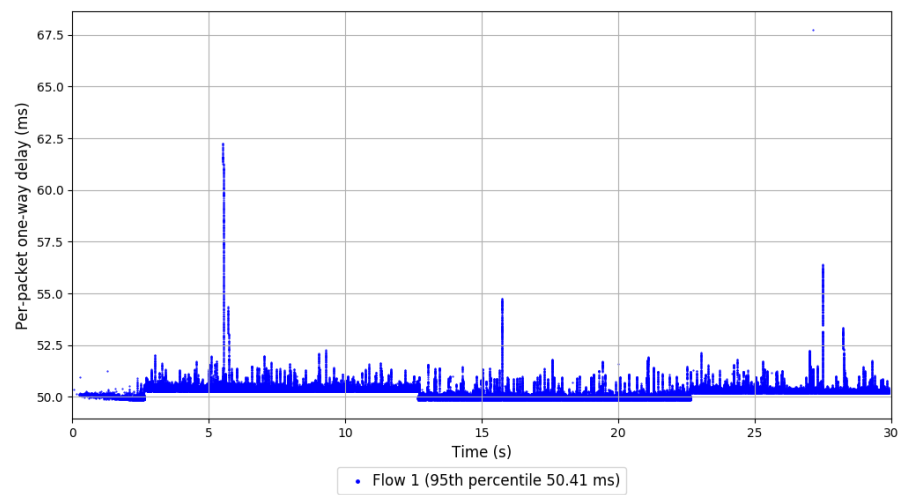
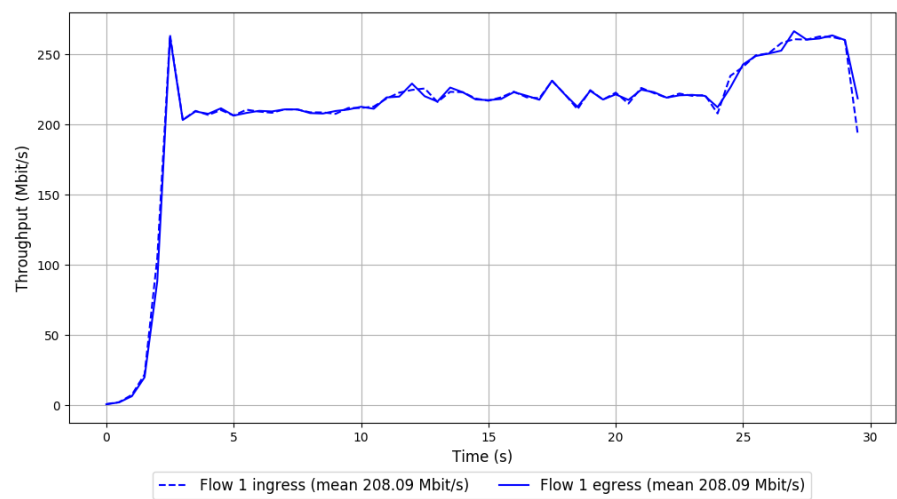


```
Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 14:31:39
End at: 2018-04-10 14:32:09

# Below is generated by plot.py at 2018-04-10 19:23:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.09 Mbit/s
95th percentile per-packet one-way delay: 50.413 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.09 Mbit/s
95th percentile per-packet one-way delay: 50.413 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 14:45:44

End at: 2018-04-10 14:46:14

Below is generated by plot.py at 2018-04-10 19:26:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.95 Mbit/s

95th percentile per-packet one-way delay: 204.405 ms

Loss rate: 0.44%

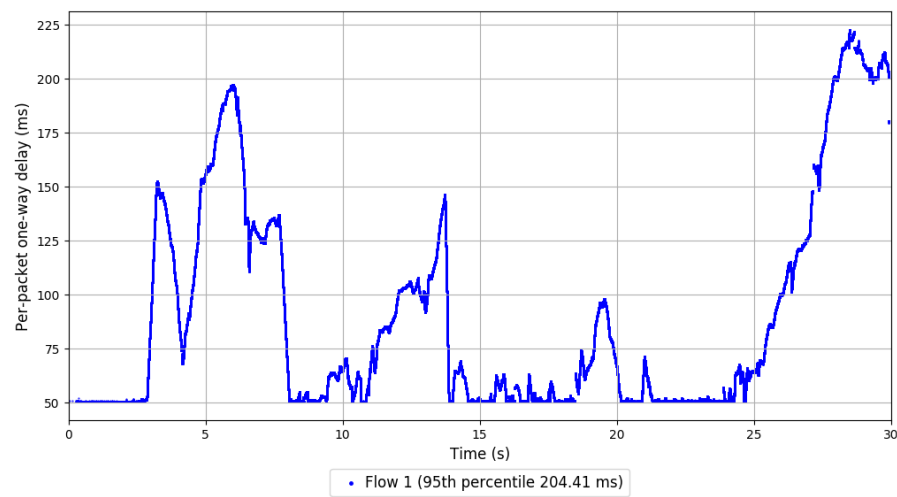
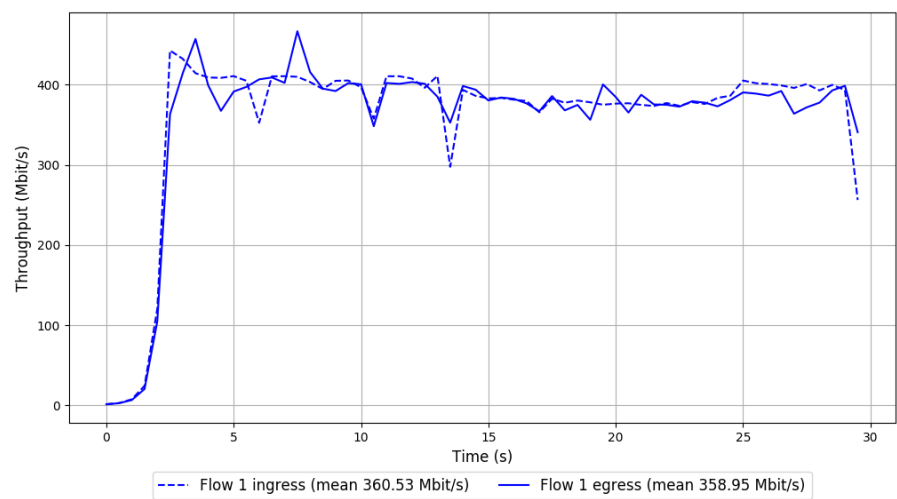
-- Flow 1:

Average throughput: 358.95 Mbit/s

95th percentile per-packet one-way delay: 204.405 ms

Loss rate: 0.44%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 14:59:57

End at: 2018-04-10 15:00:27

Below is generated by plot.py at 2018-04-10 19:27:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.61 Mbit/s

95th percentile per-packet one-way delay: 58.745 ms

Loss rate: 0.00%

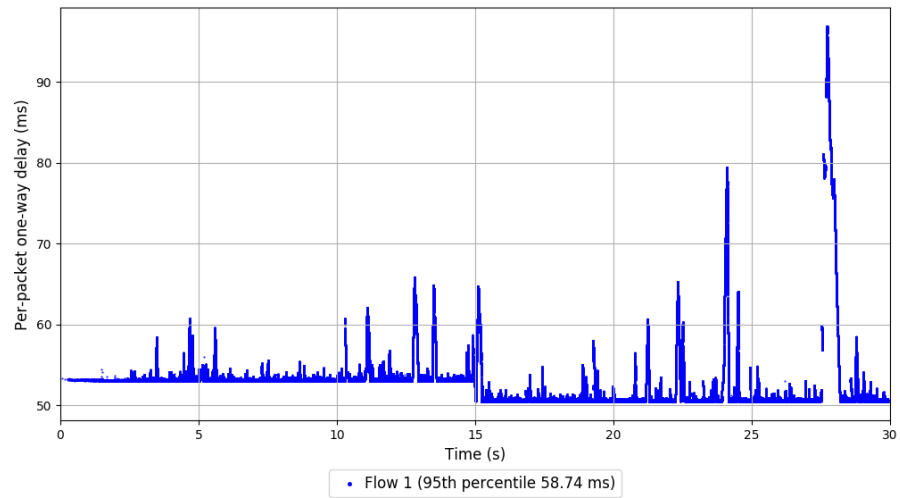
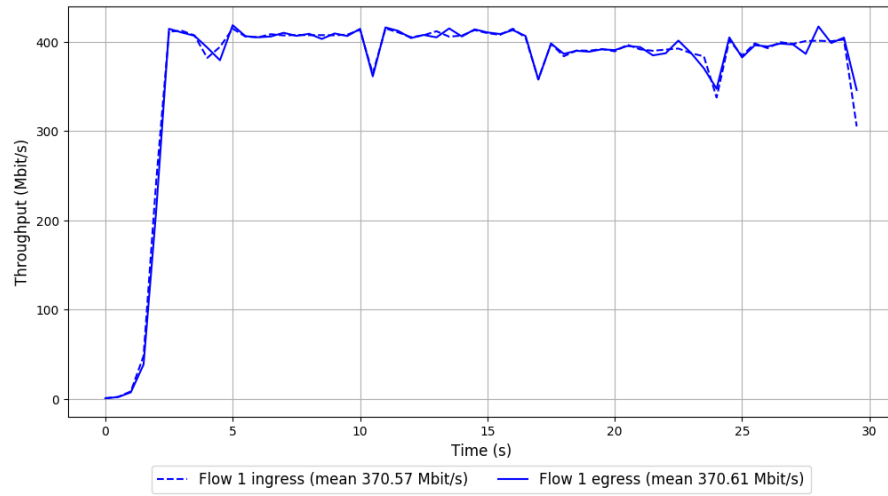
-- Flow 1:

Average throughput: 370.61 Mbit/s

95th percentile per-packet one-way delay: 58.745 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 15:14:52

End at: 2018-04-10 15:15:22

Below is generated by plot.py at 2018-04-10 19:27:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.94 Mbit/s

95th percentile per-packet one-way delay: 58.289 ms

Loss rate: 0.00%

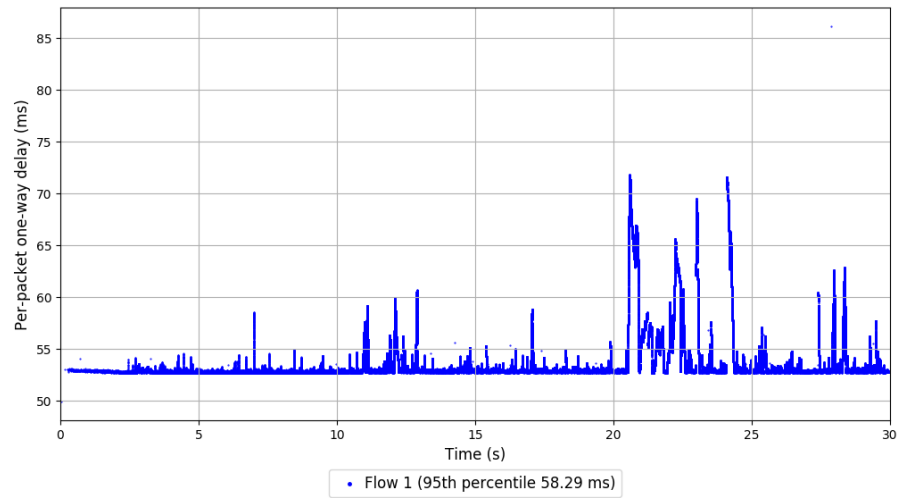
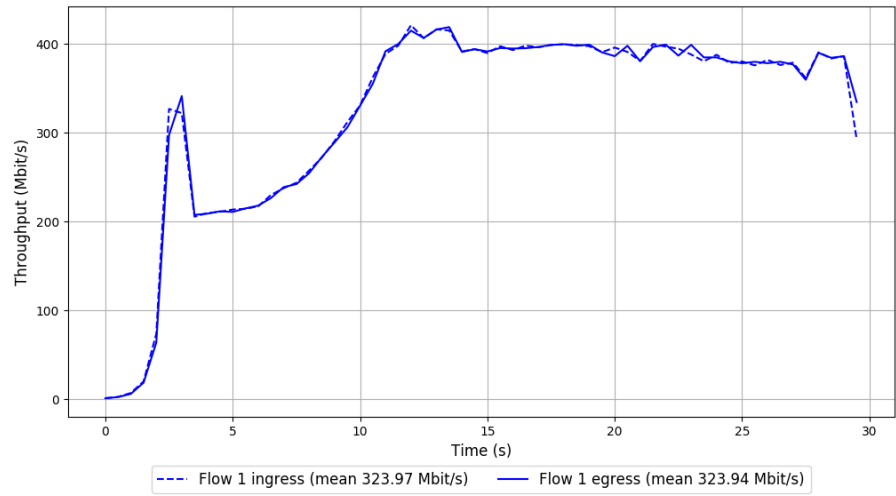
-- Flow 1:

Average throughput: 323.94 Mbit/s

95th percentile per-packet one-way delay: 58.289 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 15:29:27

End at: 2018-04-10 15:29:57

Below is generated by plot.py at 2018-04-10 19:27:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.46 Mbit/s

95th percentile per-packet one-way delay: 58.334 ms

Loss rate: 0.00%

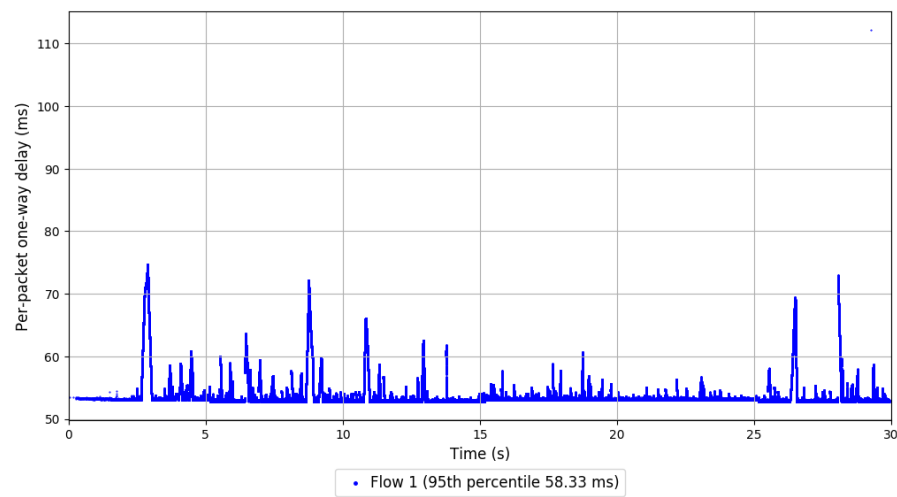
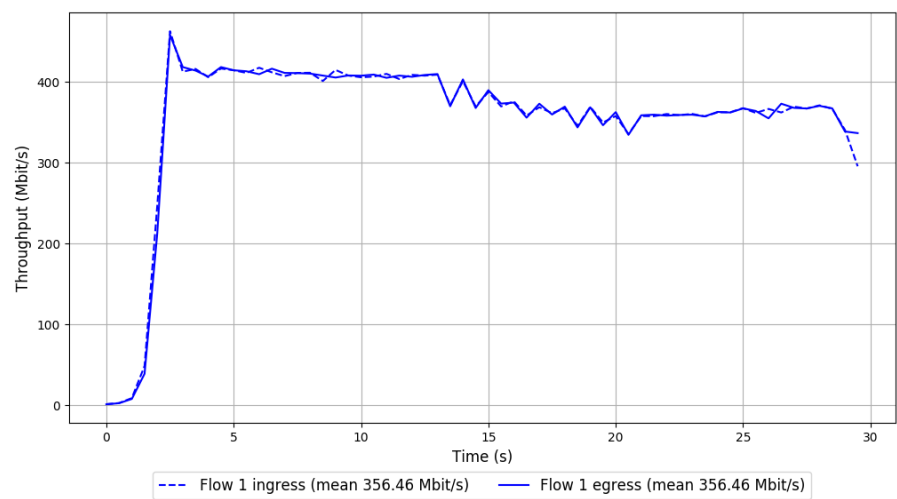
-- Flow 1:

Average throughput: 356.46 Mbit/s

95th percentile per-packet one-way delay: 58.334 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 15:43:33

End at: 2018-04-10 15:44:03

Below is generated by plot.py at 2018-04-10 19:27:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.15 Mbit/s

95th percentile per-packet one-way delay: 68.438 ms

Loss rate: 0.00%

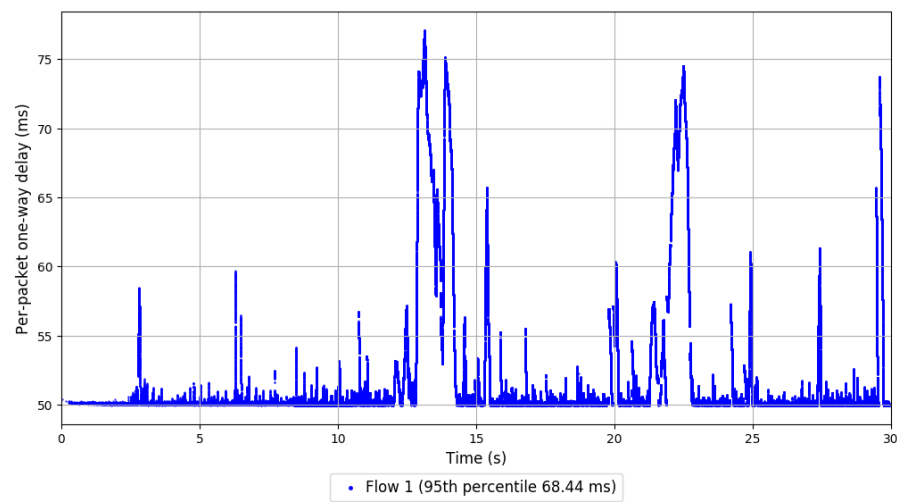
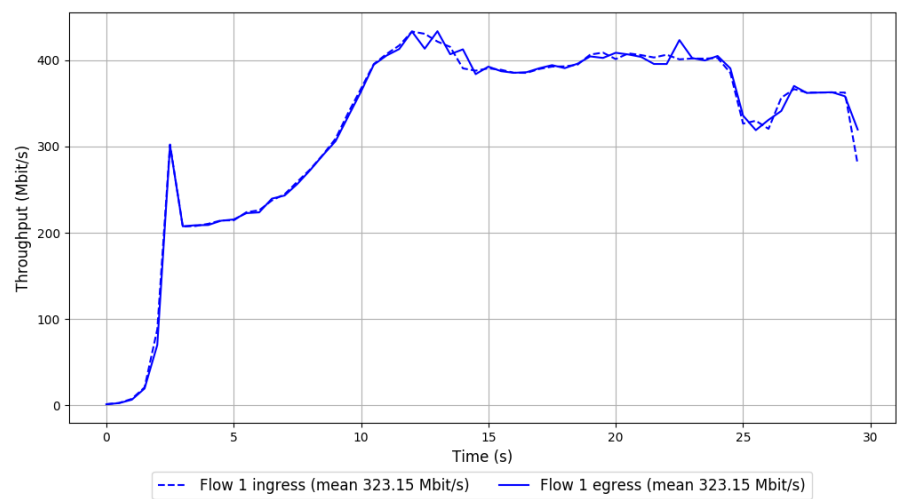
-- Flow 1:

Average throughput: 323.15 Mbit/s

95th percentile per-packet one-way delay: 68.438 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-10 15:58:02

End at: 2018-04-10 15:58:32

Below is generated by plot.py at 2018-04-10 19:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.72 Mbit/s

95th percentile per-packet one-way delay: 88.176 ms

Loss rate: 0.00%

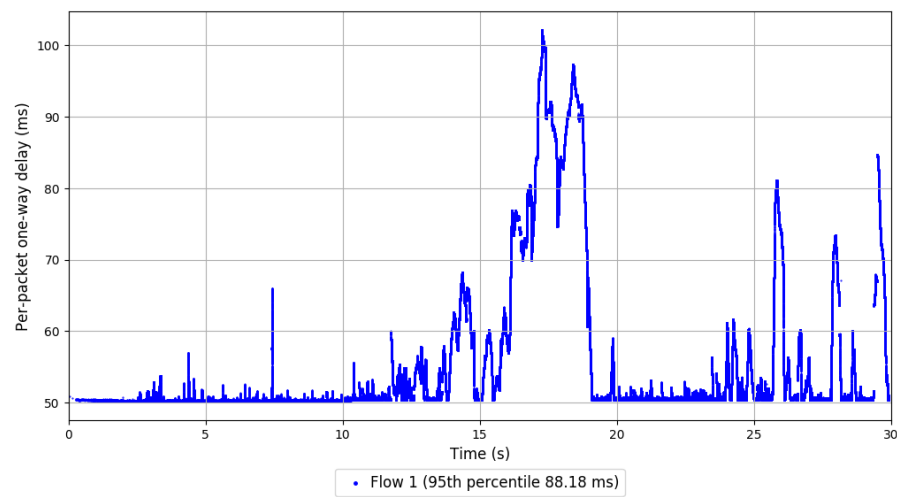
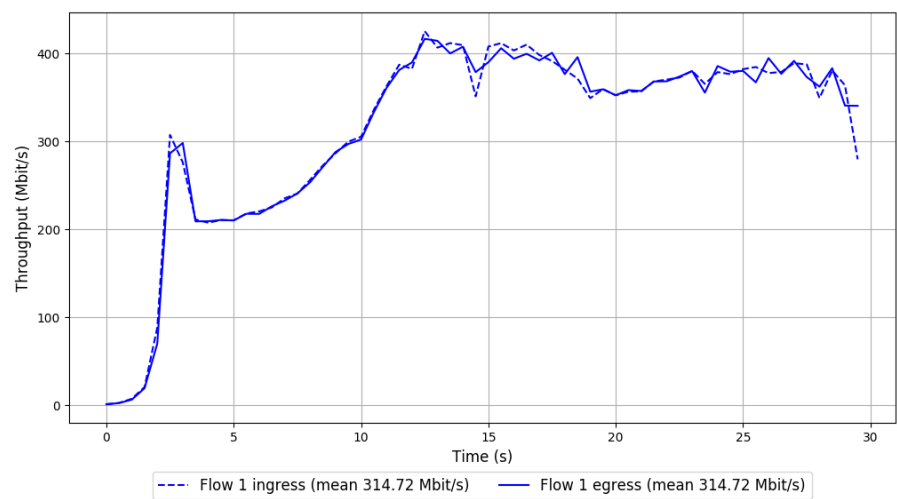
-- Flow 1:

Average throughput: 314.72 Mbit/s

95th percentile per-packet one-way delay: 88.176 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-10 16:12:17

End at: 2018-04-10 16:12:47

Below is generated by plot.py at 2018-04-10 19:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.97 Mbit/s

95th percentile per-packet one-way delay: 55.465 ms

Loss rate: 0.00%

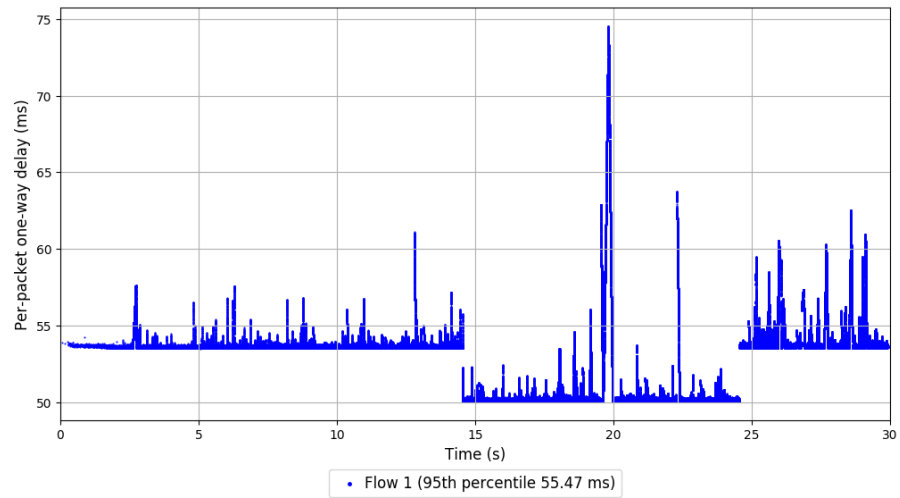
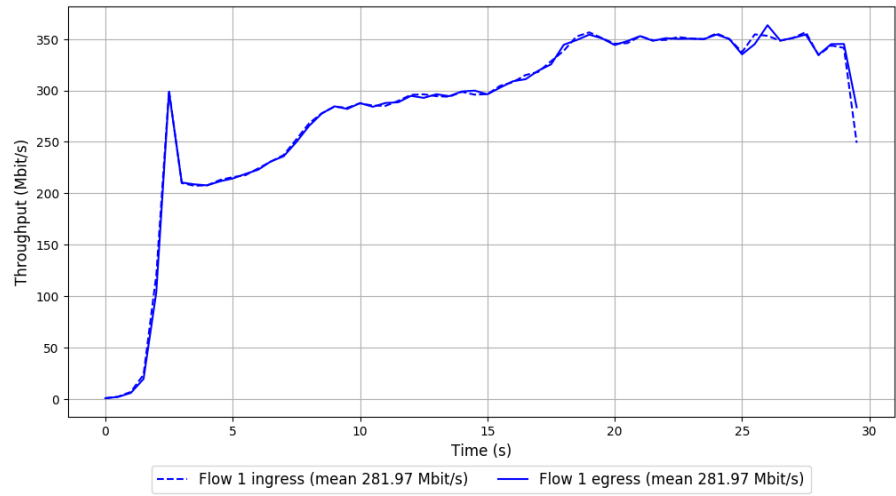
-- Flow 1:

Average throughput: 281.97 Mbit/s

95th percentile per-packet one-way delay: 55.465 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-04-10 16:26:23
End at: 2018-04-10 16:26:53

# Below is generated by plot.py at 2018-04-10 19:28:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 365.35 Mbit/s
95th percentile per-packet one-way delay: 65.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 365.35 Mbit/s
95th percentile per-packet one-way delay: 65.812 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

