

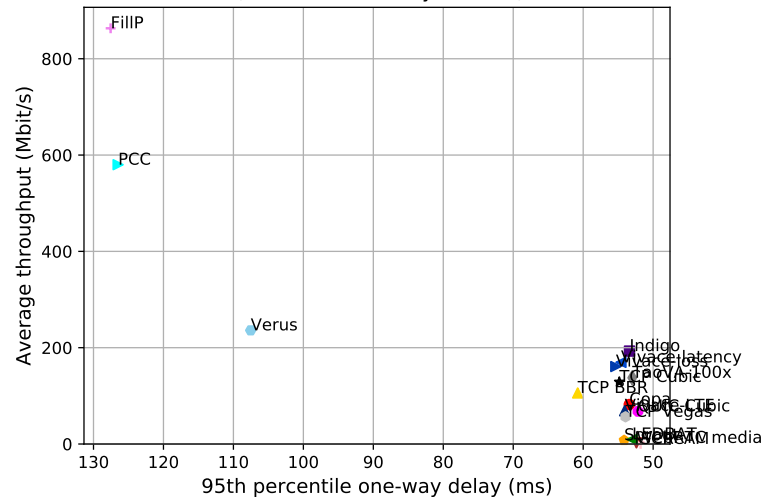
Pantheon Report

Generated at 2018-01-16 21:54:12 (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**).

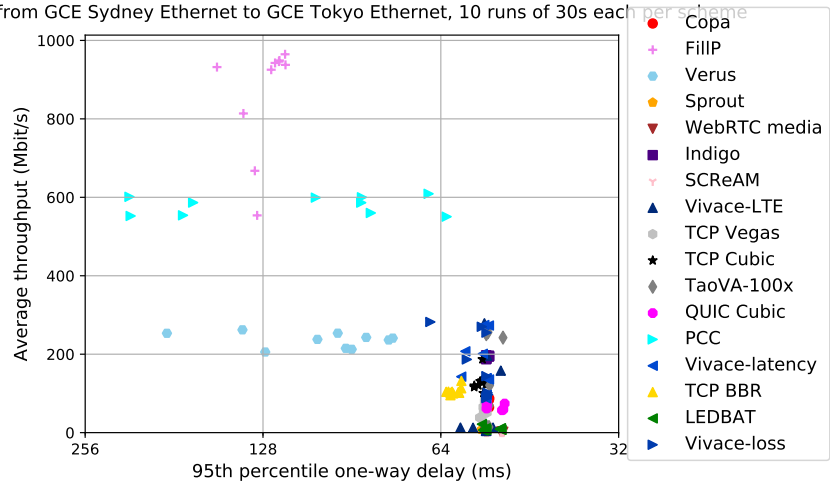
Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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	106.03	60.79	0.09
TCP Cubic	10	128.87	54.83	0.01
LEDBAT	10	9.53	53.01	0.09
PCC	10	579.98	126.48	0.44
QUIC Cubic	10	67.72	52.17	0.00
SCReAM	9	0.21	51.80	0.00
WebRTC media	10	2.30	52.39	0.00
Sprout	8	7.79	54.14	0.24
TaoVA-100x	9	137.51	52.98	0.00
TCP Vegas	10	56.51	53.95	0.11
Verus	10	236.00	107.53	0.28
Copa	10	81.97	53.41	0.00
FillP	10	863.24	127.55	3.90
Indigo	10	192.95	53.38	0.00
Vivace-latency	10	169.49	54.60	0.01
Vivace-loss	10	160.84	55.33	0.00
Vivace-LTE	10	69.03	54.07	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-01-16 17:03:56

End at: 2018-01-16 17:04:26

Below is generated by plot.py at 2018-01-16 20:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.12 Mbit/s

95th percentile per-packet one-way delay: 62.674 ms

Loss rate: 0.00%

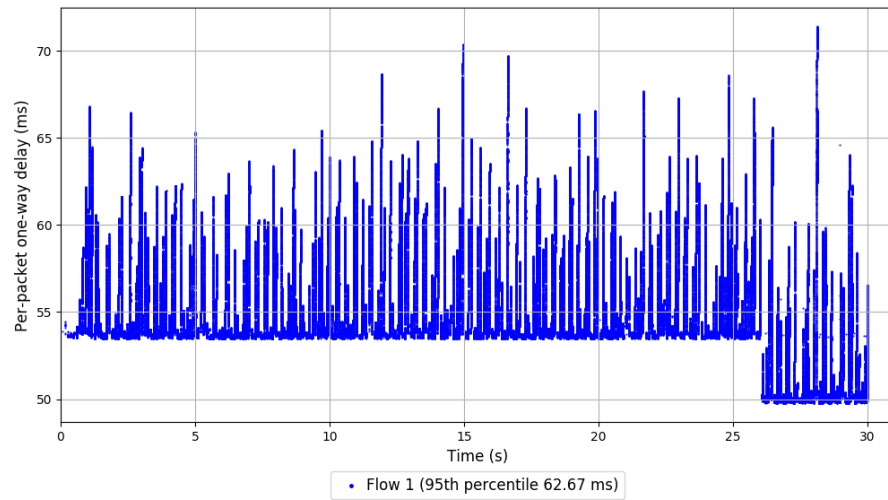
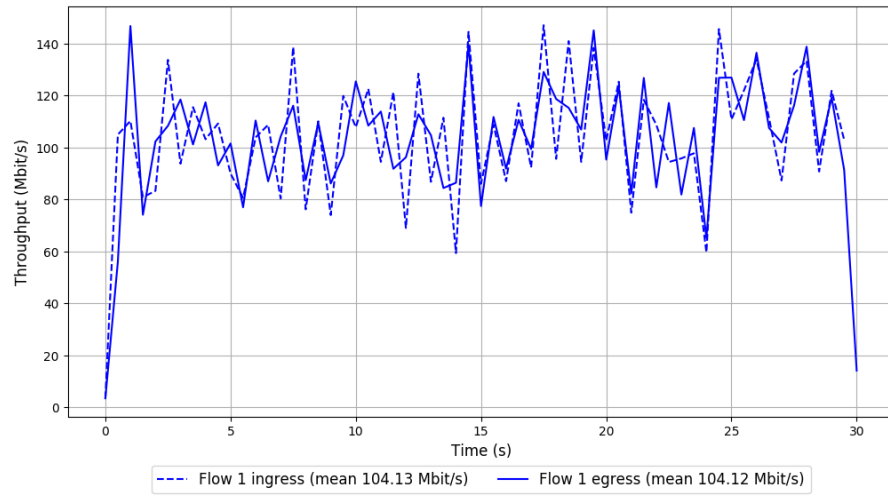
-- Flow 1:

Average throughput: 104.12 Mbit/s

95th percentile per-packet one-way delay: 62.674 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-16 17:17:45

End at: 2018-01-16 17:18:15

Below is generated by plot.py at 2018-01-16 20:38:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.48 Mbit/s

95th percentile per-packet one-way delay: 62.129 ms

Loss rate: 0.01%

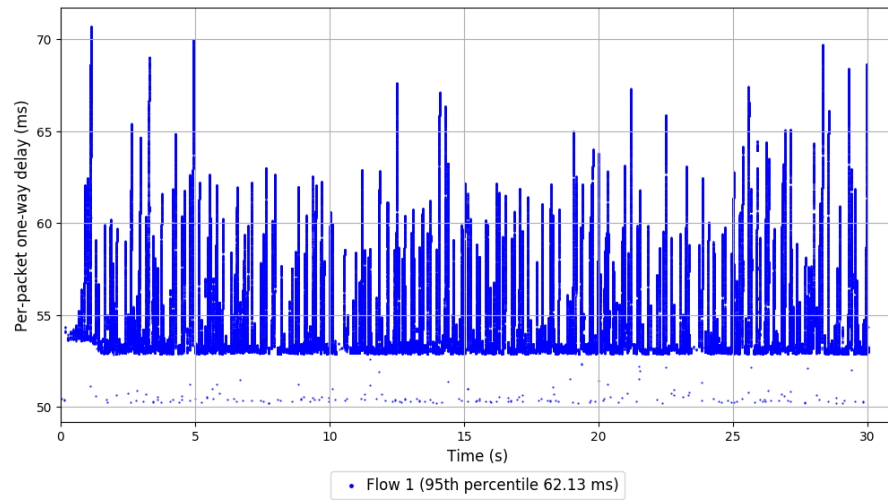
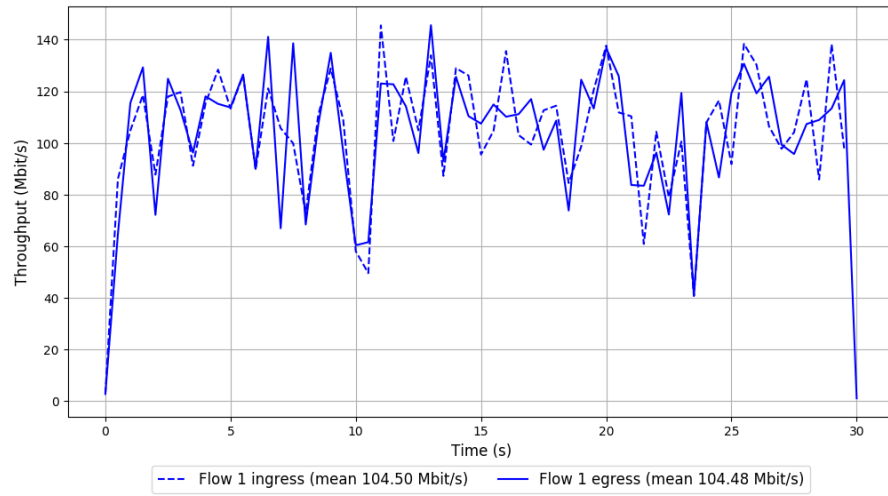
-- Flow 1:

Average throughput: 104.48 Mbit/s

95th percentile per-packet one-way delay: 62.129 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 17:32:05

End at: 2018-01-16 17:32:35

Below is generated by plot.py at 2018-01-16 20:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.13 Mbit/s

95th percentile per-packet one-way delay: 59.110 ms

Loss rate: 0.00%

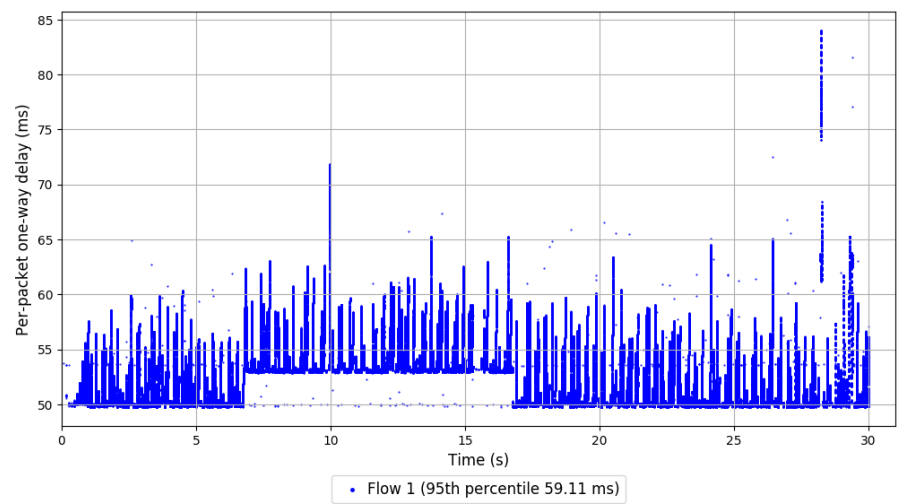
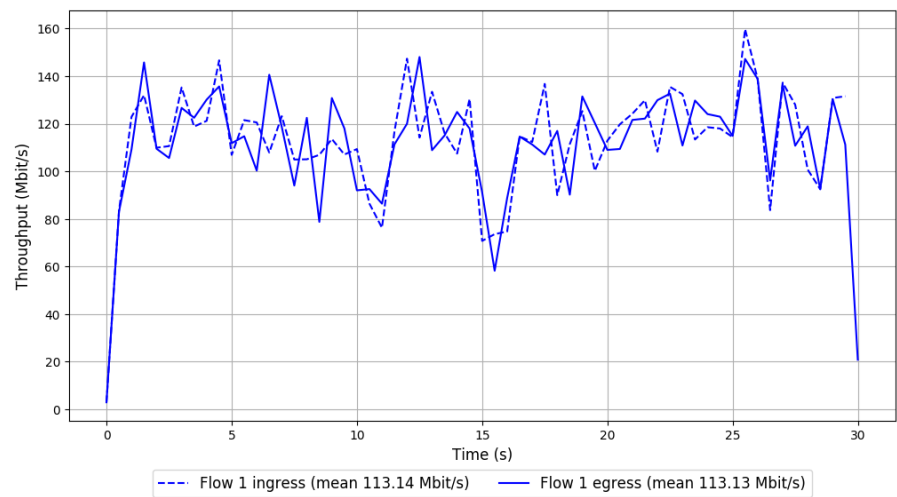
-- Flow 1:

Average throughput: 113.13 Mbit/s

95th percentile per-packet one-way delay: 59.110 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 17:46:13

End at: 2018-01-16 17:46:43

Below is generated by plot.py at 2018-01-16 20:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.48 Mbit/s

95th percentile per-packet one-way delay: 59.765 ms

Loss rate: 0.34%

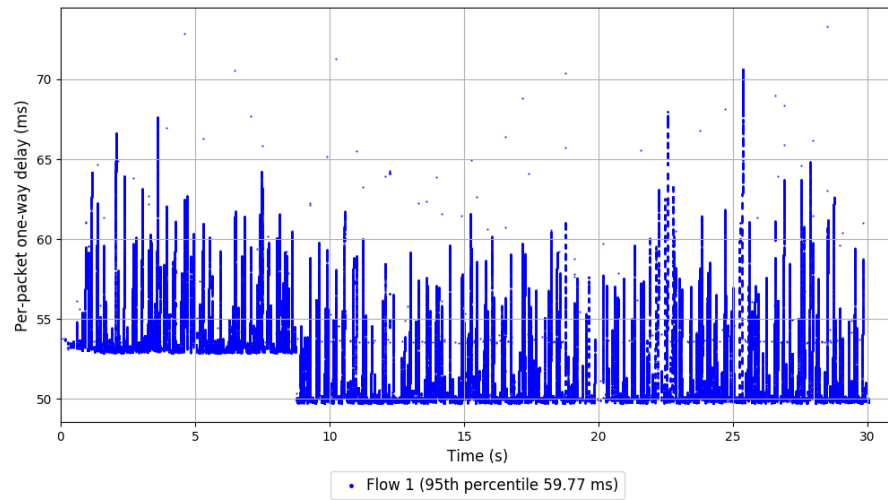
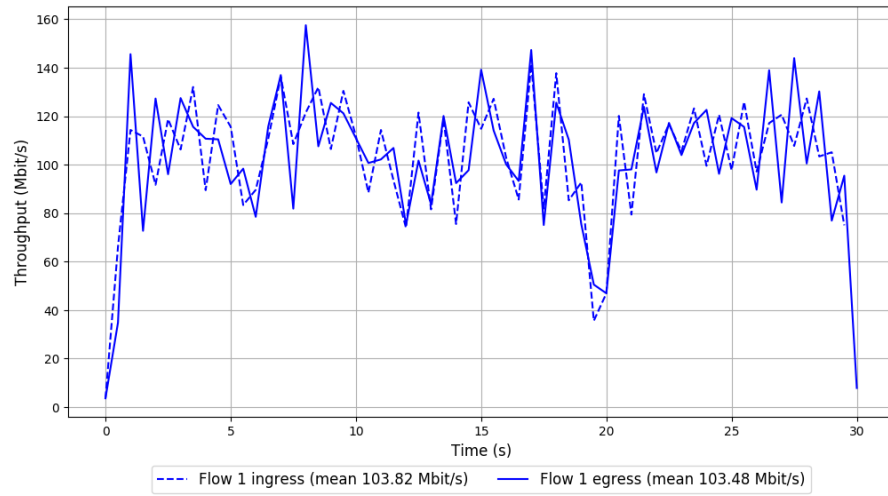
-- Flow 1:

Average throughput: 103.48 Mbit/s

95th percentile per-packet one-way delay: 59.765 ms

Loss rate: 0.34%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 18:00:24

End at: 2018-01-16 18:00:54

Below is generated by plot.py at 2018-01-16 20:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.07 Mbit/s

95th percentile per-packet one-way delay: 61.007 ms

Loss rate: 0.04%

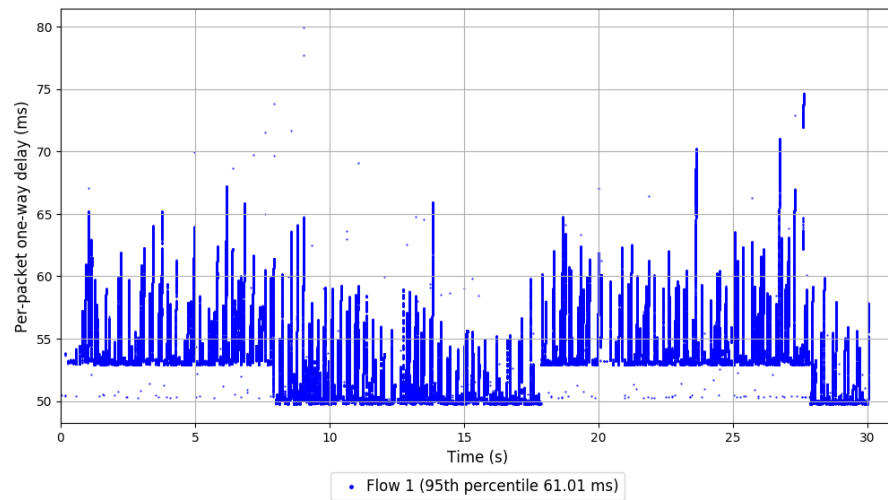
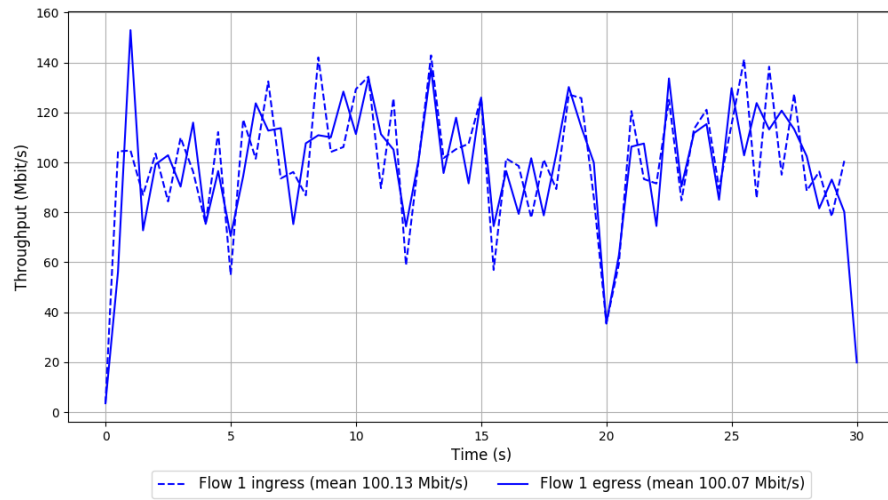
-- Flow 1:

Average throughput: 100.07 Mbit/s

95th percentile per-packet one-way delay: 61.007 ms

Loss rate: 0.04%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-16 18:14:26

End at: 2018-01-16 18:14:56

Below is generated by plot.py at 2018-01-16 20:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.35 Mbit/s

95th percentile per-packet one-way delay: 61.247 ms

Loss rate: 0.01%

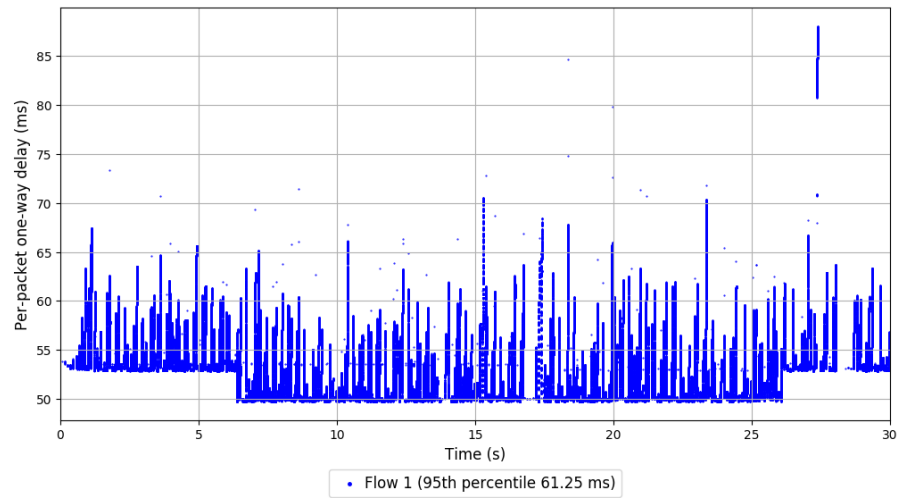
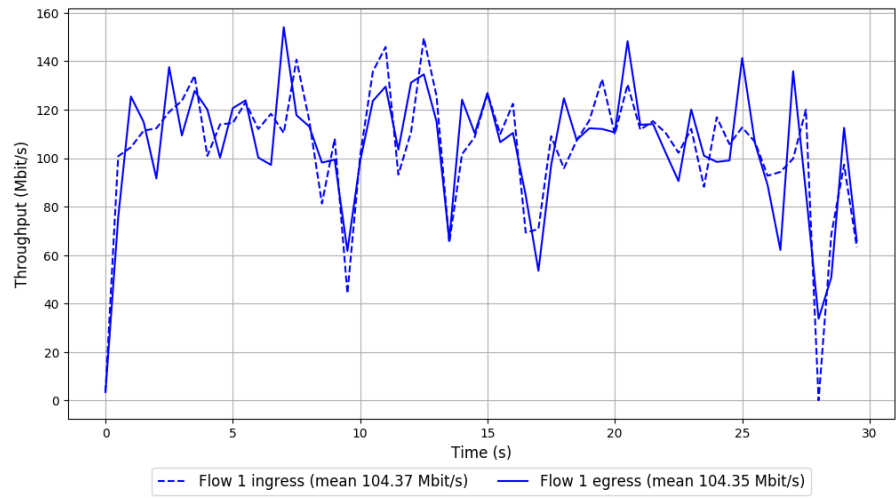
-- Flow 1:

Average throughput: 104.35 Mbit/s

95th percentile per-packet one-way delay: 61.247 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 18:28:24

End at: 2018-01-16 18:28:54

Below is generated by plot.py at 2018-01-16 20:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.70 Mbit/s

95th percentile per-packet one-way delay: 61.634 ms

Loss rate: 0.00%

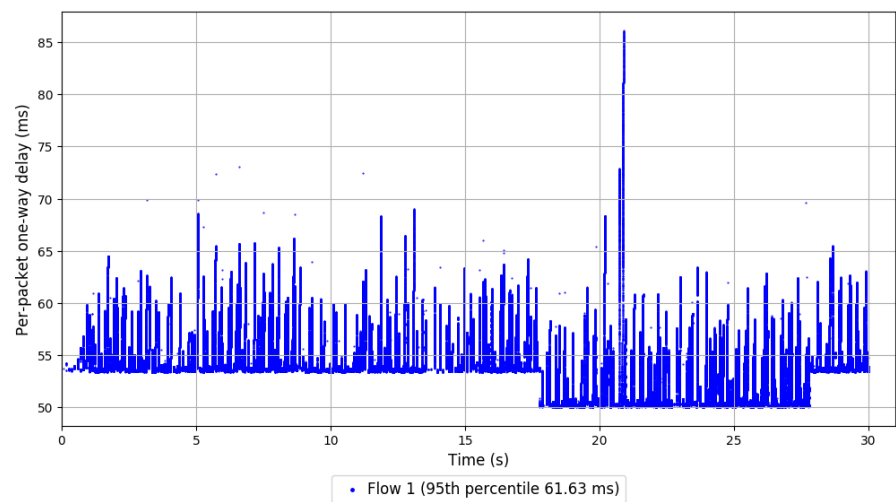
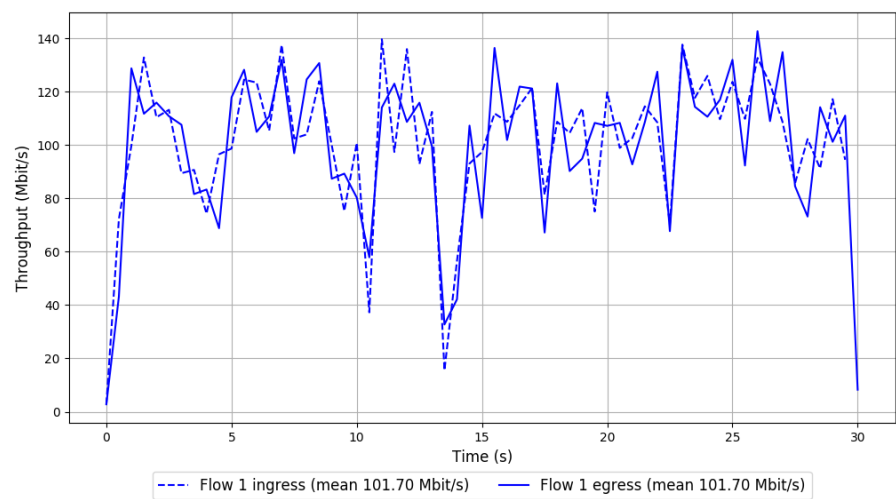
-- Flow 1:

Average throughput: 101.70 Mbit/s

95th percentile per-packet one-way delay: 61.634 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-16 18:42:50

End at: 2018-01-16 18:43:20

Below is generated by plot.py at 2018-01-16 20:38:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.59 Mbit/s

95th percentile per-packet one-way delay: 59.587 ms

Loss rate: 0.00%

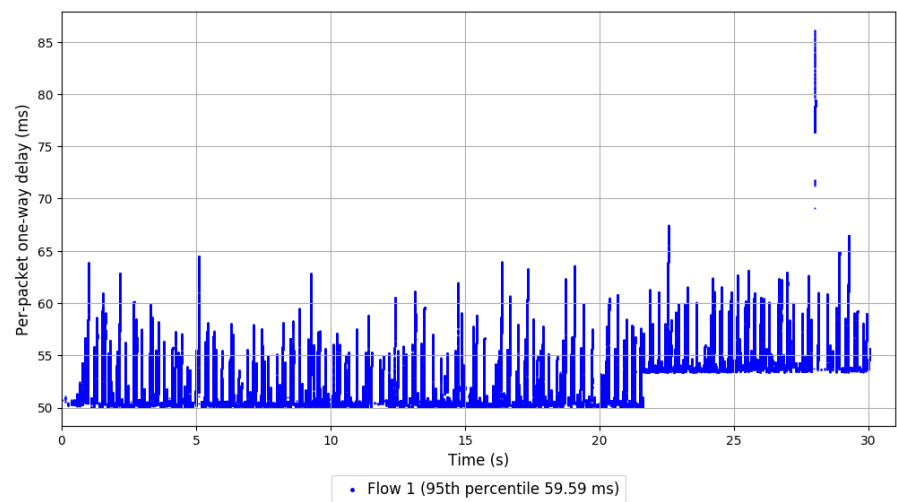
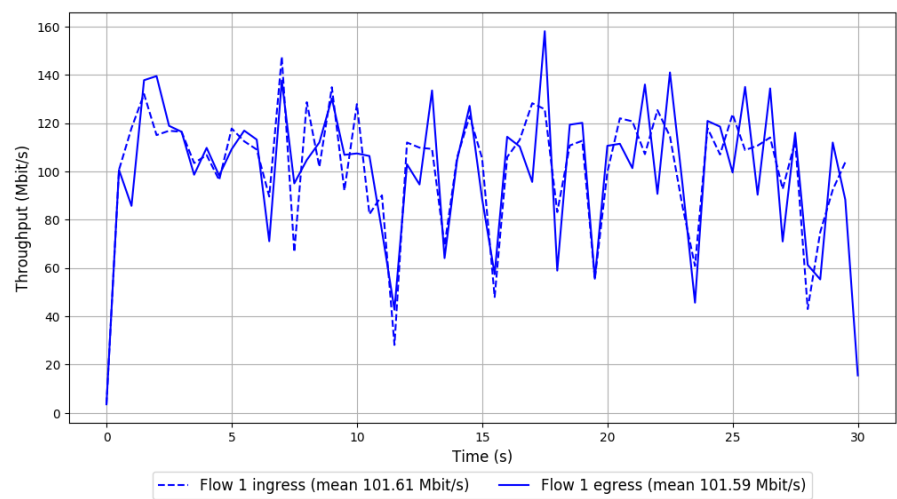
-- Flow 1:

Average throughput: 101.59 Mbit/s

95th percentile per-packet one-way delay: 59.587 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-16 18:56:55

End at: 2018-01-16 18:57:25

Below is generated by plot.py at 2018-01-16 20:40:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.94 Mbit/s

95th percentile per-packet one-way delay: 59.069 ms

Loss rate: 0.00%

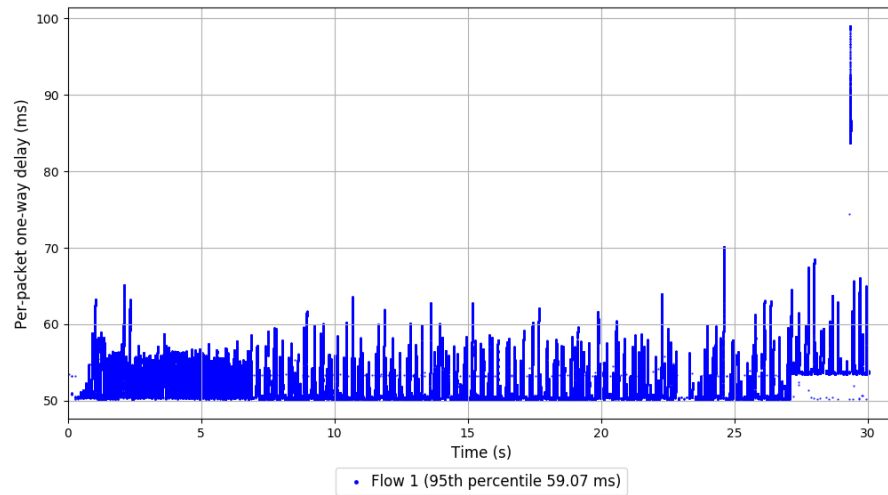
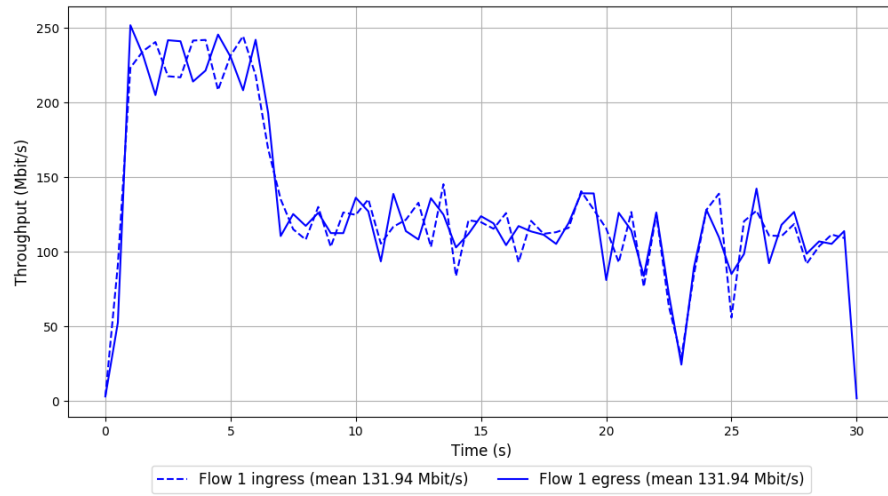
-- Flow 1:

Average throughput: 131.94 Mbit/s

95th percentile per-packet one-way delay: 59.069 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-16 19:11:08

End at: 2018-01-16 19:11:38

Below is generated by plot.py at 2018-01-16 20:40:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 61.648 ms

Loss rate: 0.50%

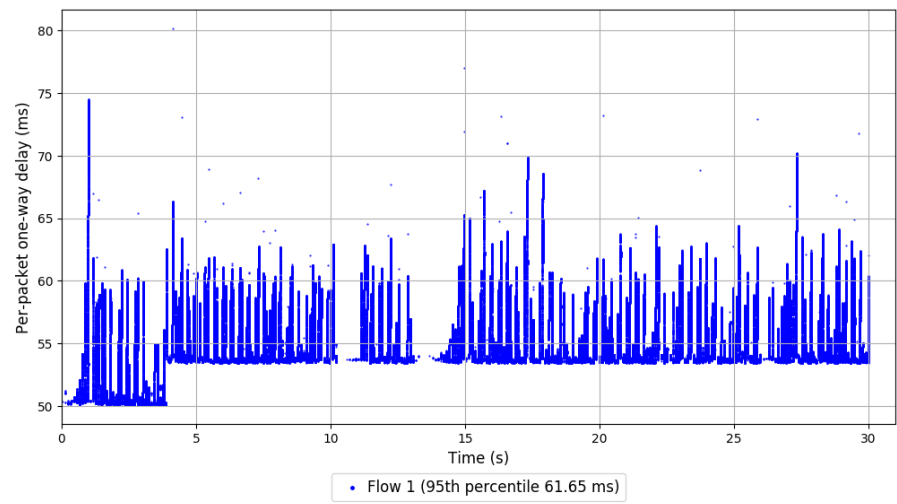
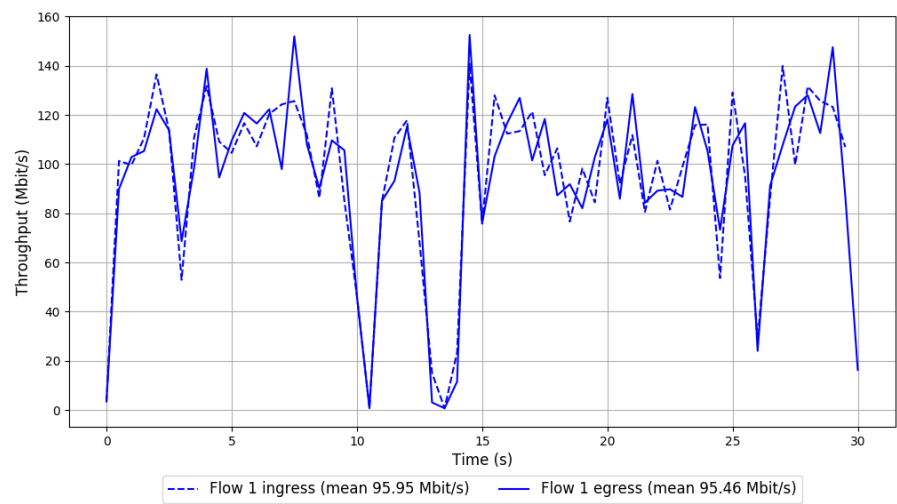
-- Flow 1:

Average throughput: 95.46 Mbit/s

95th percentile per-packet one-way delay: 61.648 ms

Loss rate: 0.50%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-16 16:52:37

End at: 2018-01-16 16:53:07

Below is generated by plot.py at 2018-01-16 20:40:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.79 Mbit/s

95th percentile per-packet one-way delay: 56.170 ms

Loss rate: 0.00%

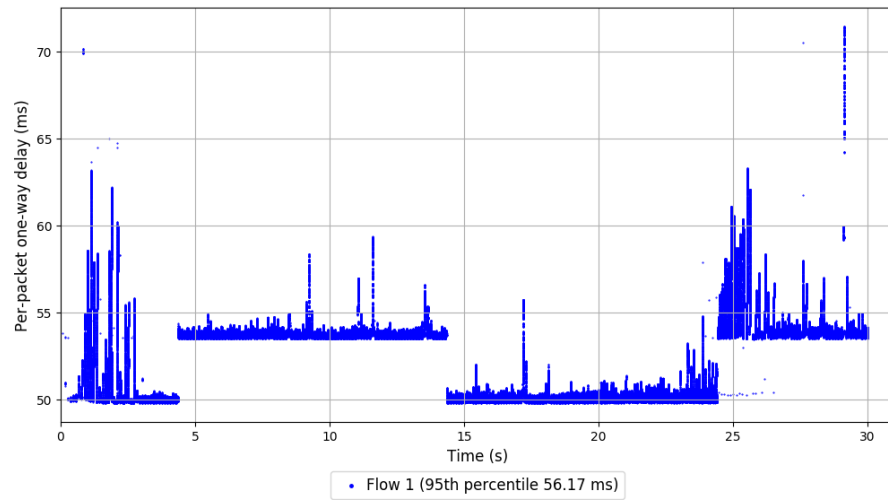
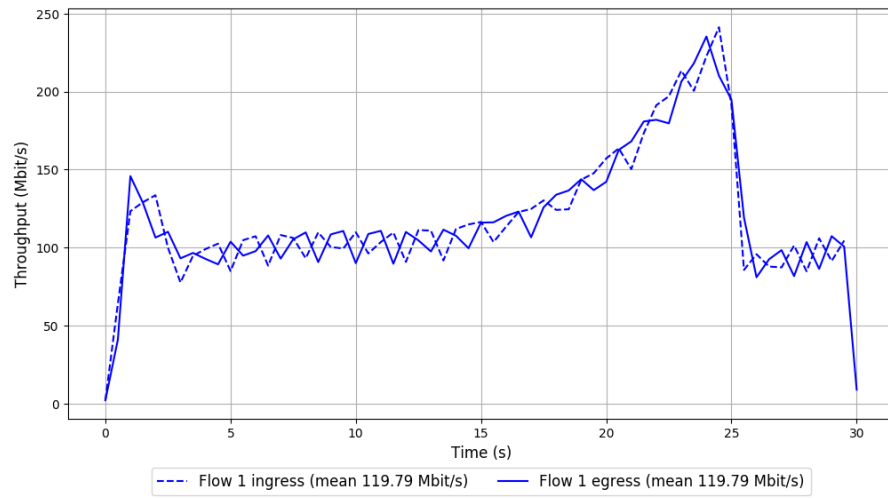
-- Flow 1:

Average throughput: 119.79 Mbit/s

95th percentile per-packet one-way delay: 56.170 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 17:06:21

End at: 2018-01-16 17:06:51

Below is generated by plot.py at 2018-01-16 20:40:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.42 Mbit/s

95th percentile per-packet one-way delay: 55.293 ms

Loss rate: 0.00%

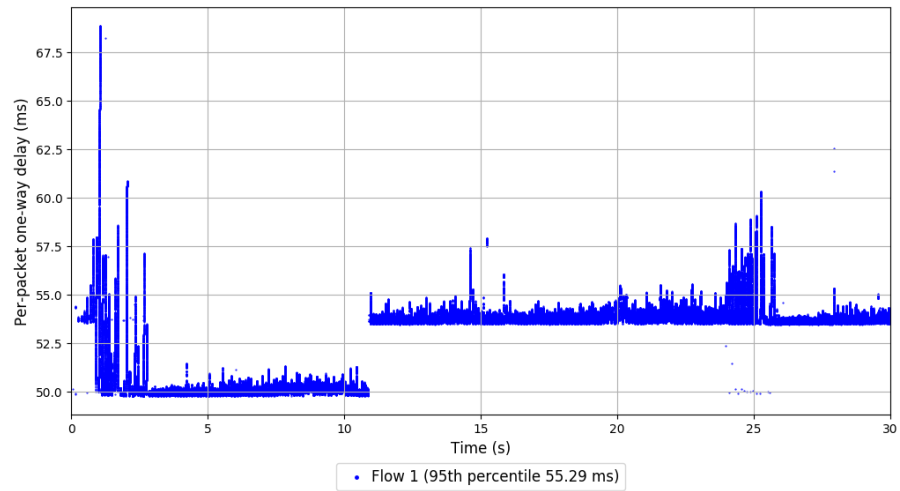
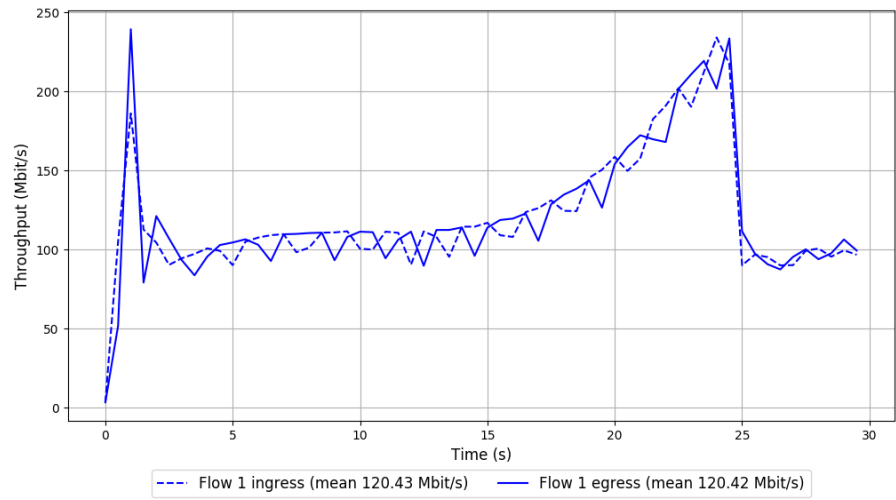
-- Flow 1:

Average throughput: 120.42 Mbit/s

95th percentile per-packet one-way delay: 55.293 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 17:20:14

End at: 2018-01-16 17:20:44

Below is generated by plot.py at 2018-01-16 20:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.12 Mbit/s

95th percentile per-packet one-way delay: 54.409 ms

Loss rate: 0.00%

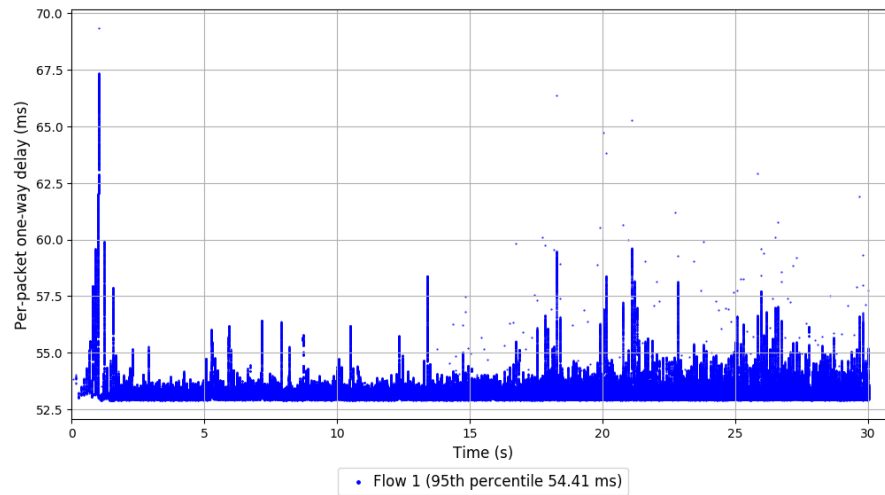
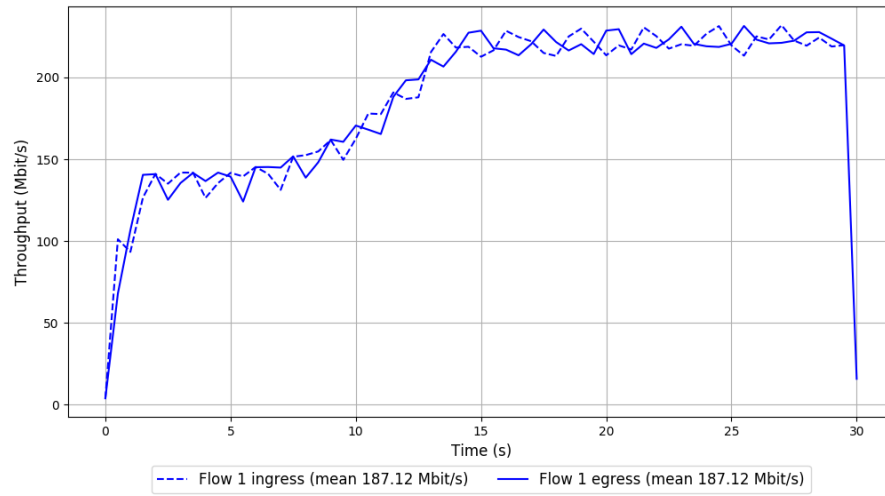
-- Flow 1:

Average throughput: 187.12 Mbit/s

95th percentile per-packet one-way delay: 54.409 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 17:34:28

End at: 2018-01-16 17:34:58

Below is generated by plot.py at 2018-01-16 20:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.57 Mbit/s

95th percentile per-packet one-way delay: 53.725 ms

Loss rate: 0.00%

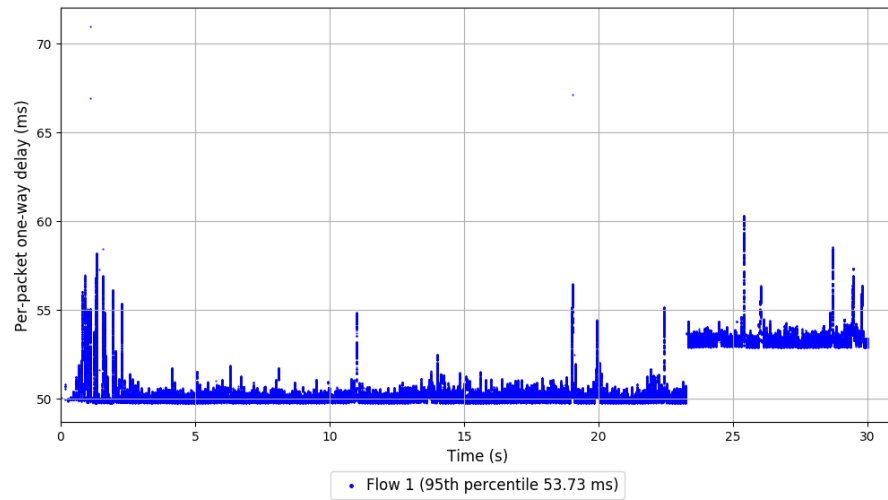
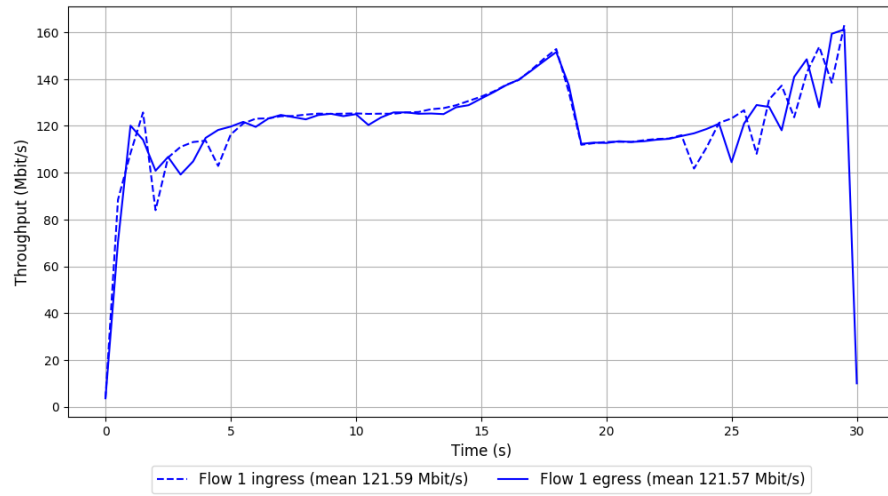
-- Flow 1:

Average throughput: 121.57 Mbit/s

95th percentile per-packet one-way delay: 53.725 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 17:48:36

End at: 2018-01-16 17:49:06

Below is generated by plot.py at 2018-01-16 20:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.88 Mbit/s

95th percentile per-packet one-way delay: 54.221 ms

Loss rate: 0.05%

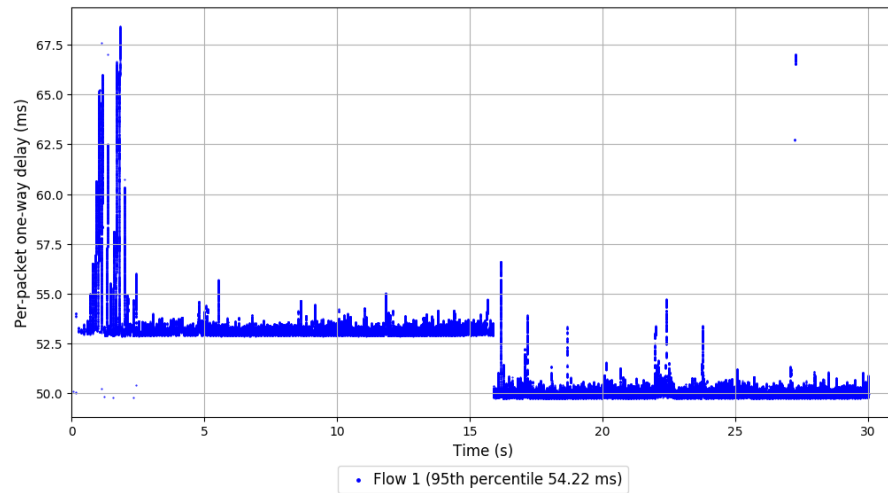
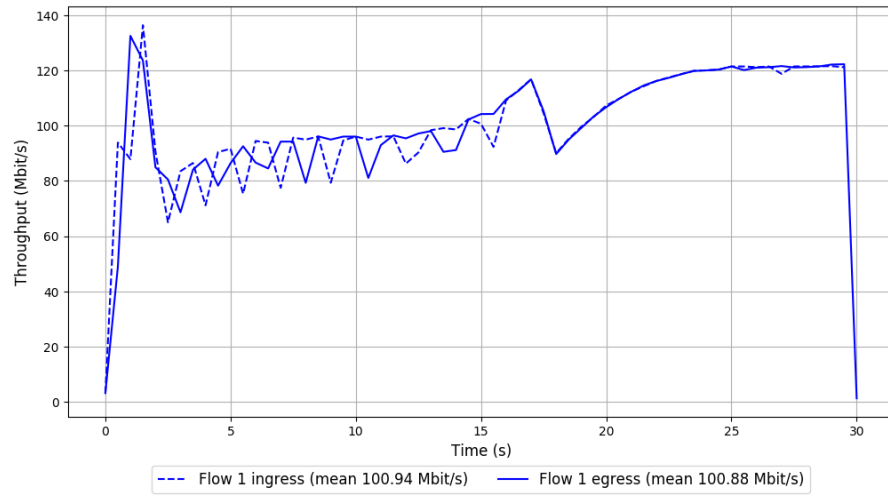
-- Flow 1:

Average throughput: 100.88 Mbit/s

95th percentile per-packet one-way delay: 54.221 ms

Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 18:02:45

End at: 2018-01-16 18:03:15

Below is generated by plot.py at 2018-01-16 20:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.83 Mbit/s

95th percentile per-packet one-way delay: 54.532 ms

Loss rate: 0.00%

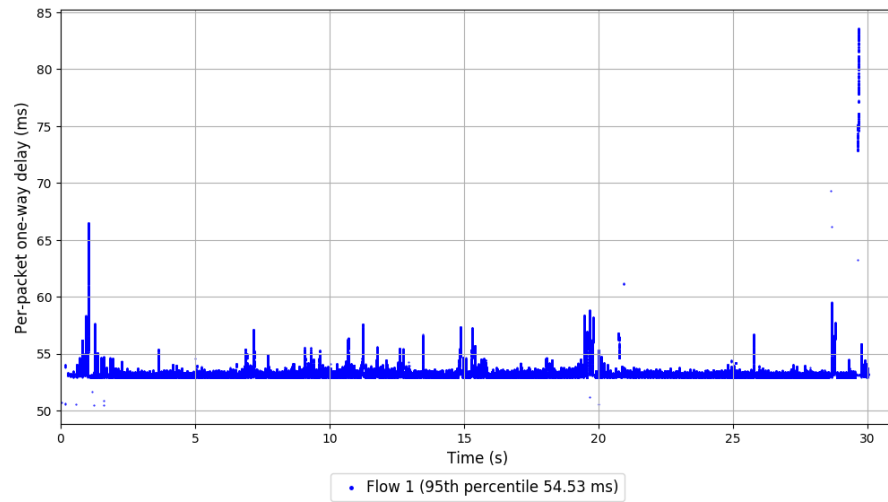
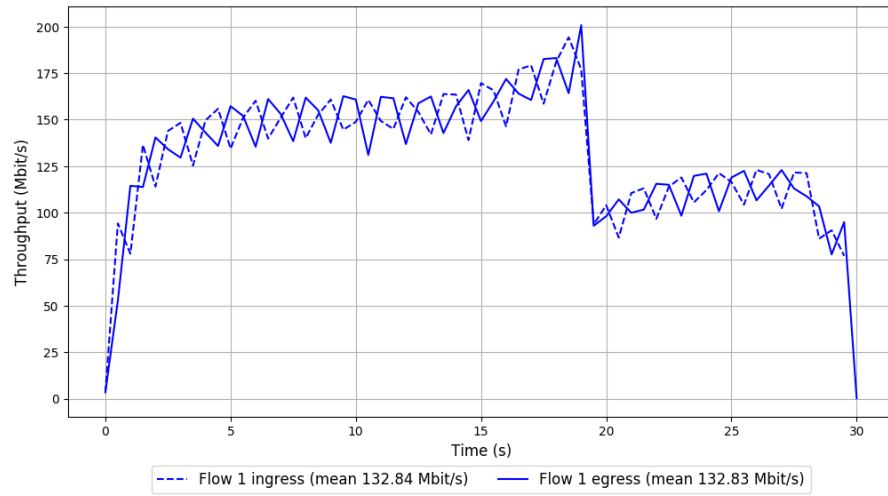
-- Flow 1:

Average throughput: 132.83 Mbit/s

95th percentile per-packet one-way delay: 54.532 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 18:16:49

End at: 2018-01-16 18:17:19

Below is generated by plot.py at 2018-01-16 20:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.11 Mbit/s

95th percentile per-packet one-way delay: 56.201 ms

Loss rate: 0.00%

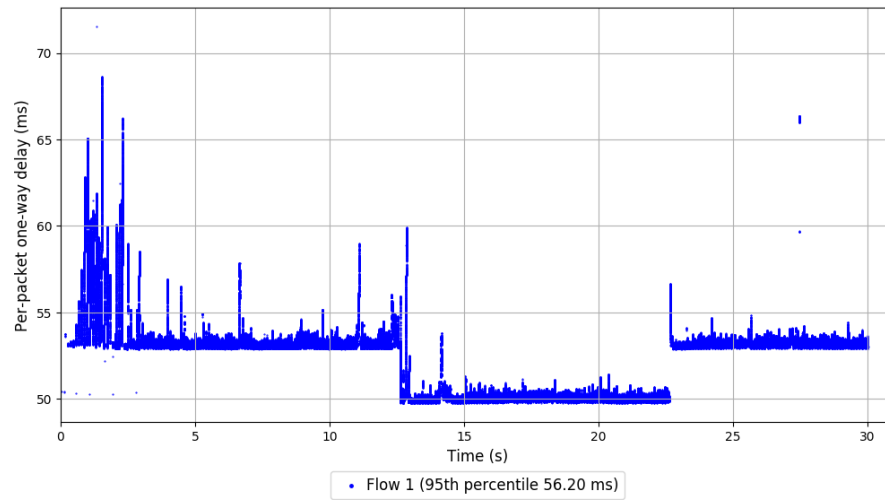
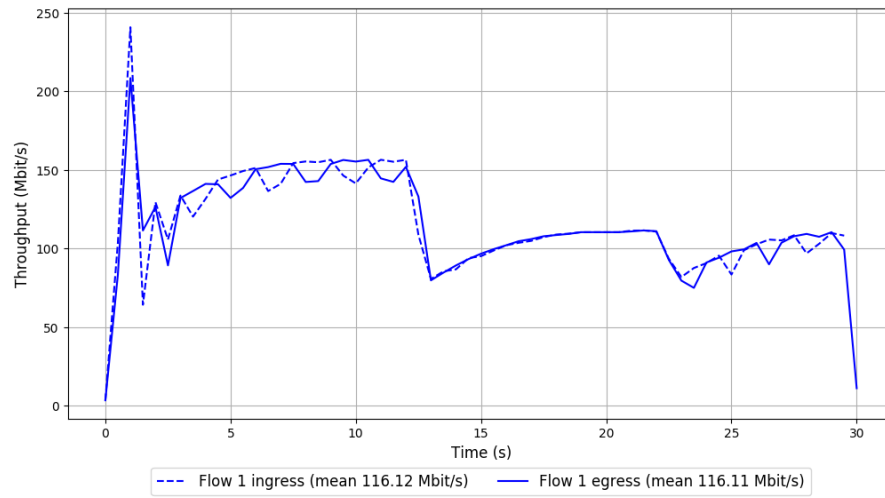
-- Flow 1:

Average throughput: 116.11 Mbit/s

95th percentile per-packet one-way delay: 56.201 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 18:30:47

End at: 2018-01-16 18:31:17

Below is generated by plot.py at 2018-01-16 20:42:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.95 Mbit/s

95th percentile per-packet one-way delay: 54.896 ms

Loss rate: 0.00%

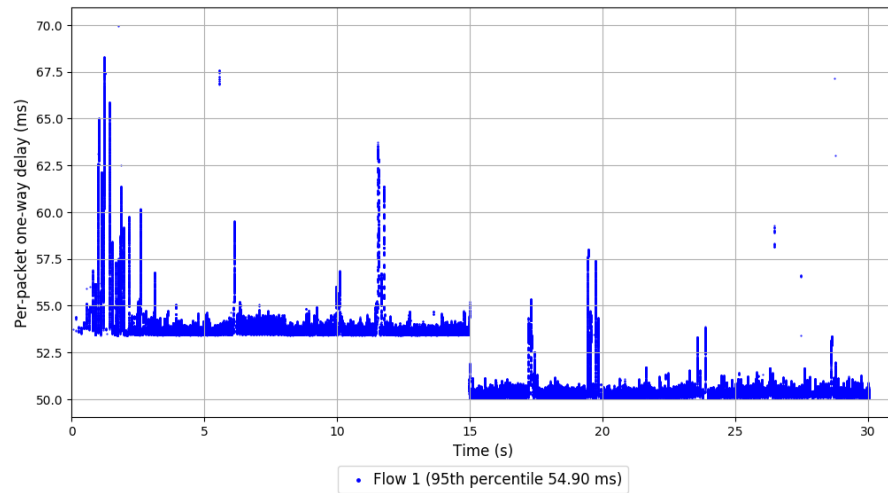
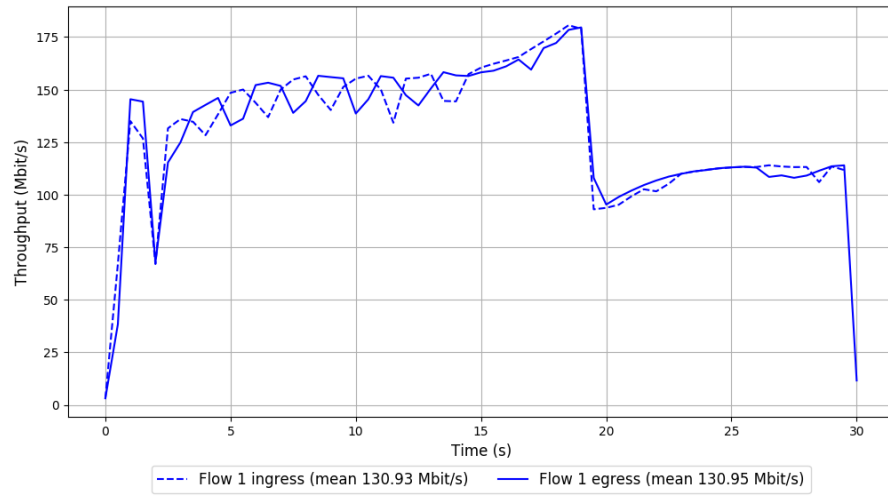
-- Flow 1:

Average throughput: 130.95 Mbit/s

95th percentile per-packet one-way delay: 54.896 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-16 18:45:15

End at: 2018-01-16 18:45:45

Below is generated by plot.py at 2018-01-16 20:42:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.34 Mbit/s

95th percentile per-packet one-way delay: 54.375 ms

Loss rate: 0.01%

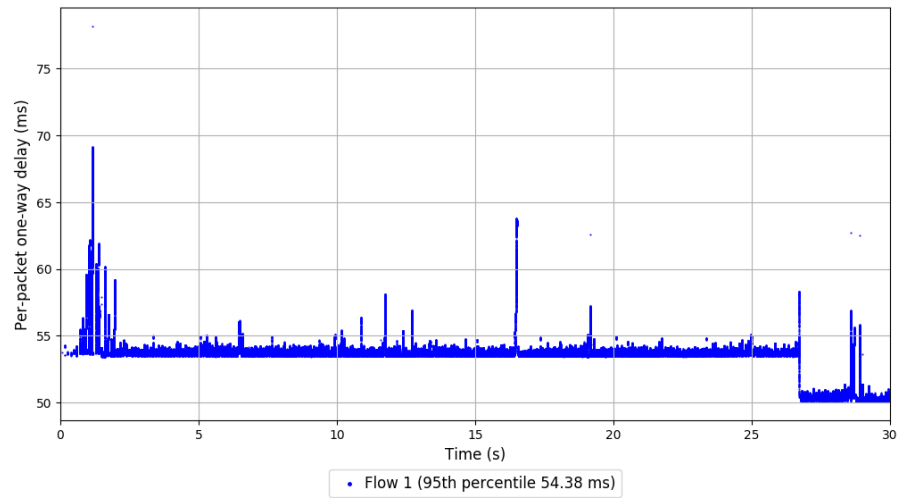
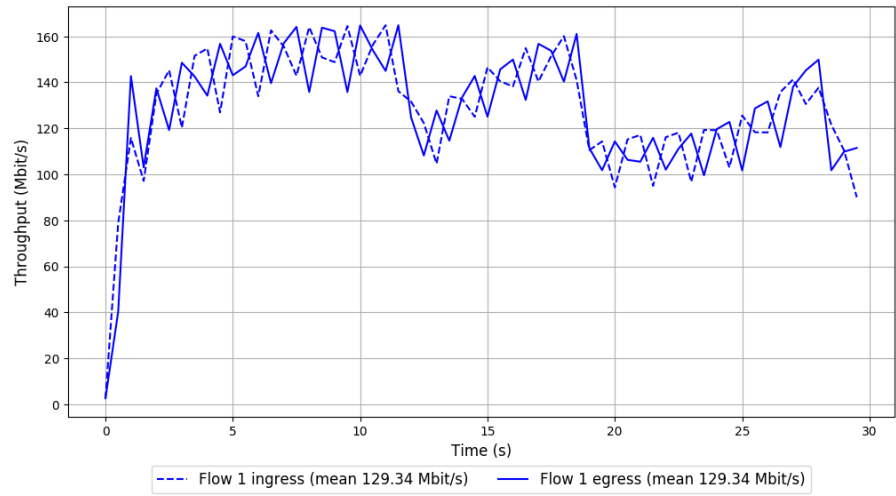
-- Flow 1:

Average throughput: 129.34 Mbit/s

95th percentile per-packet one-way delay: 54.375 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-16 18:59:18

End at: 2018-01-16 18:59:48

Below is generated by plot.py at 2018-01-16 20:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.72 Mbit/s

95th percentile per-packet one-way delay: 54.491 ms

Loss rate: 0.00%

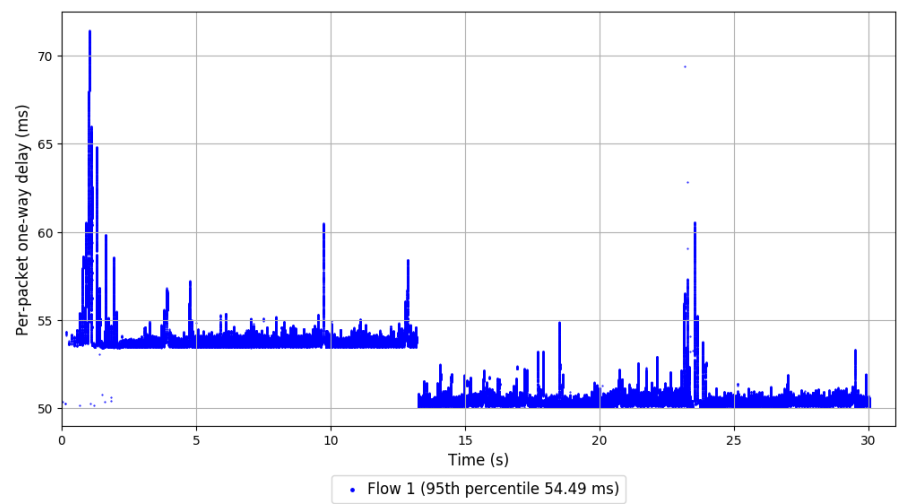
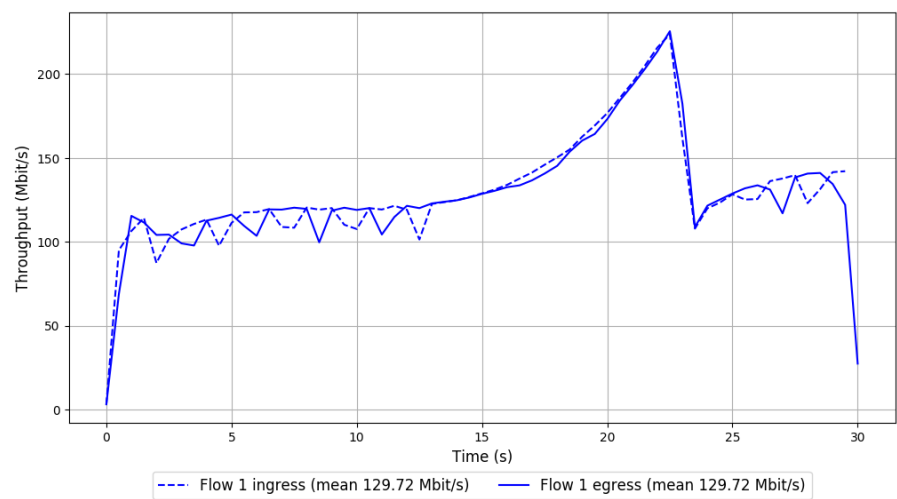
-- Flow 1:

Average throughput: 129.72 Mbit/s

95th percentile per-packet one-way delay: 54.491 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

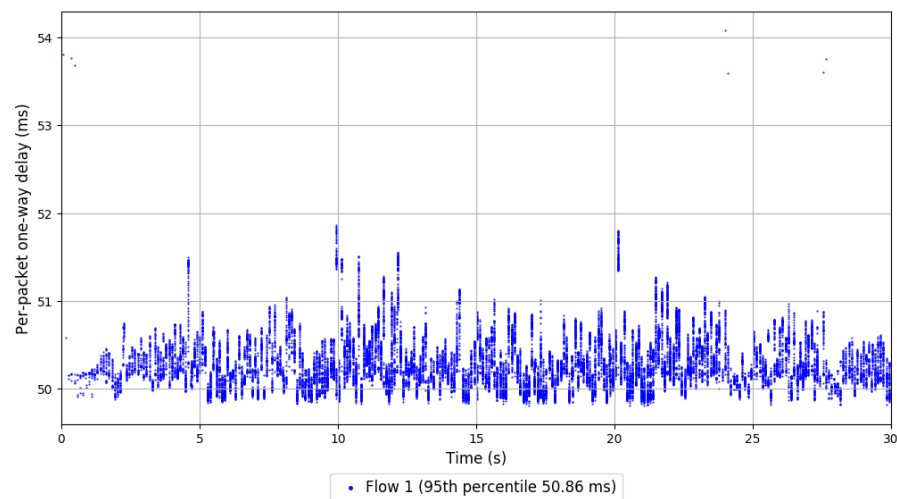
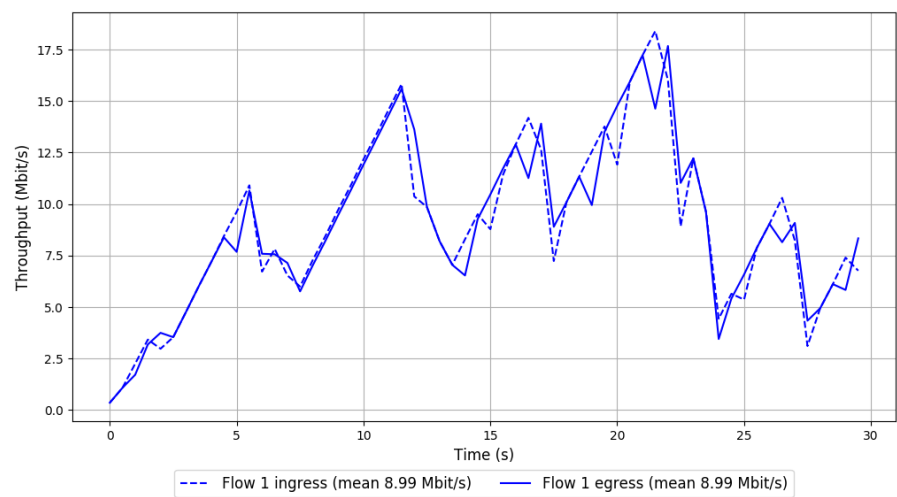


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 16:53:21
End at: 2018-01-16 16:53:51

# Below is generated by plot.py at 2018-01-16 20:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 50.863 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 50.863 ms
Loss rate: 0.02%
```


Run 1: Report of LEDBAT — Data Link

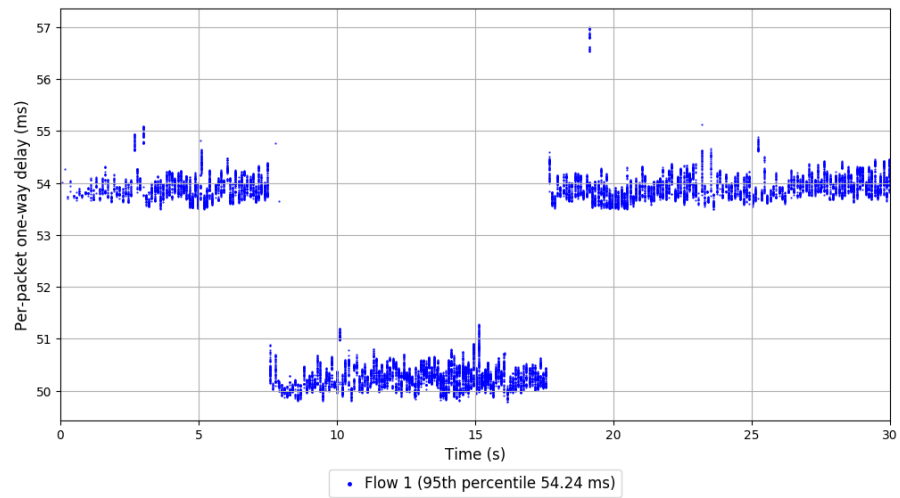
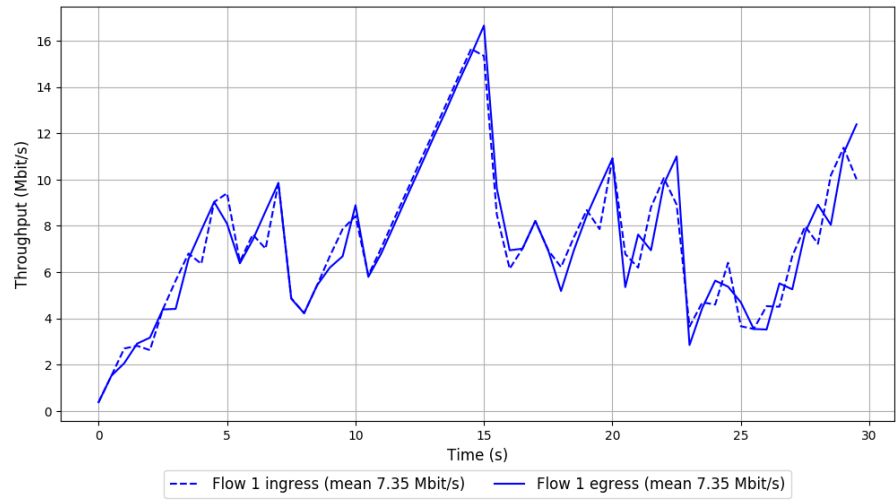


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-16 17:07:04
End at: 2018-01-16 17:07:34

# Below is generated by plot.py at 2018-01-16 20:42:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 7.35 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 0.01%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 17:21:01

End at: 2018-01-16 17:21:31

Below is generated by plot.py at 2018-01-16 20:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 50.515 ms

Loss rate: 0.00%

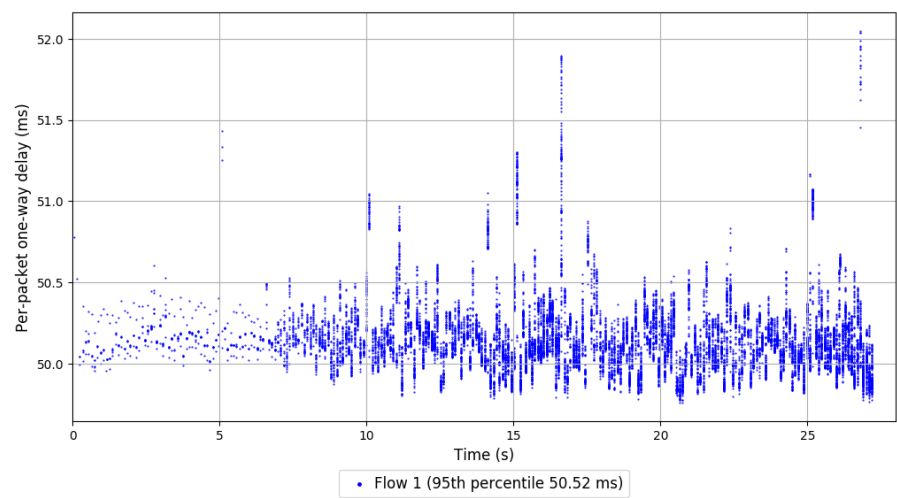
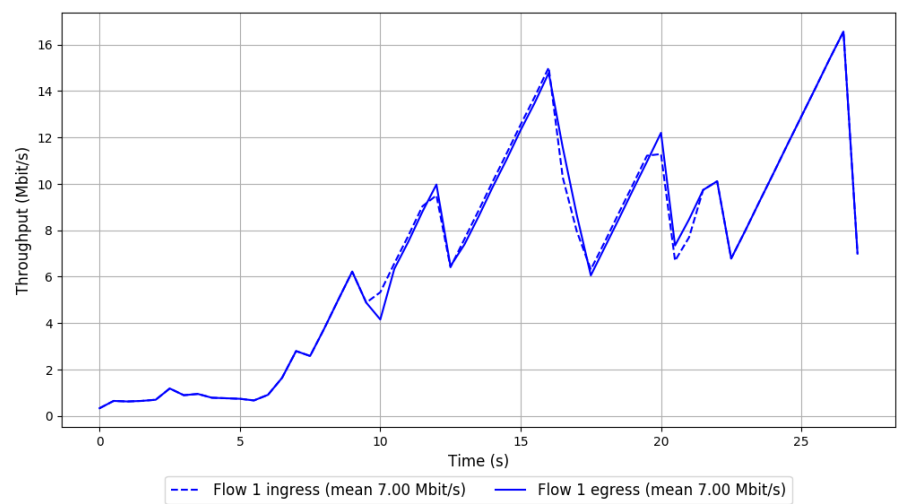
-- Flow 1:

Average throughput: 7.00 Mbit/s

95th percentile per-packet one-way delay: 50.515 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-16 17:35:12

End at: 2018-01-16 17:35:42

Below is generated by plot.py at 2018-01-16 20:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.12 Mbit/s

95th percentile per-packet one-way delay: 53.720 ms

Loss rate: 0.04%

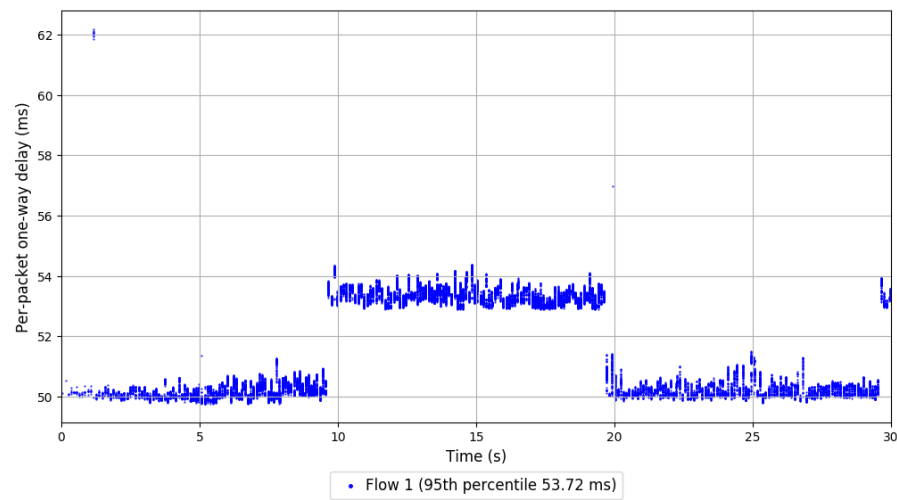
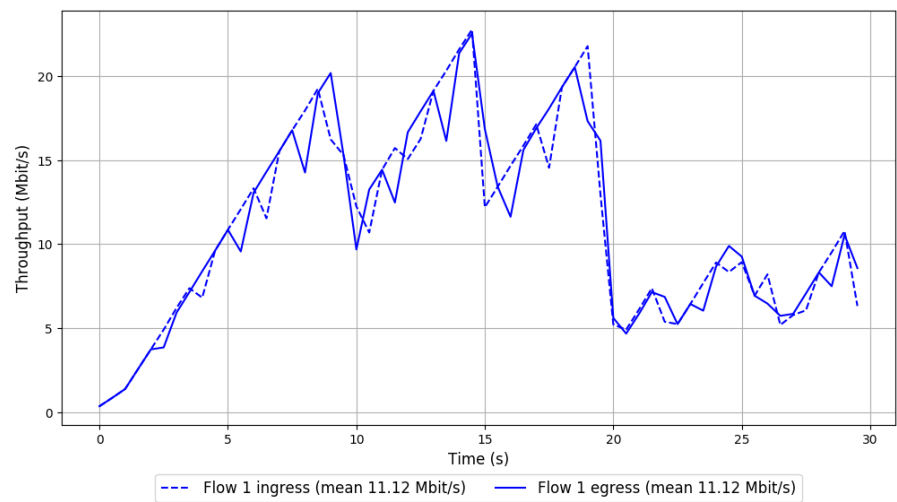
-- Flow 1:

Average throughput: 11.12 Mbit/s

95th percentile per-packet one-way delay: 53.720 ms

Loss rate: 0.04%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-16 17:49:18

End at: 2018-01-16 17:49:48

Below is generated by plot.py at 2018-01-16 20:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 53.664 ms

Loss rate: 0.00%

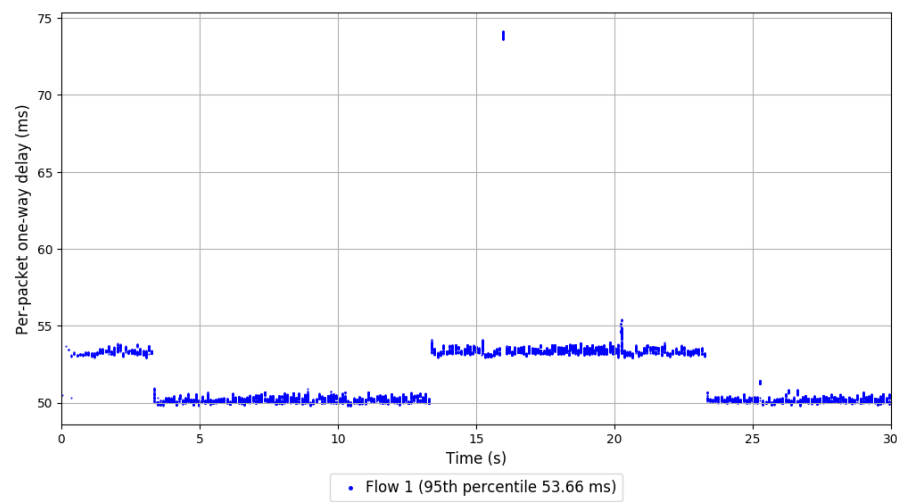
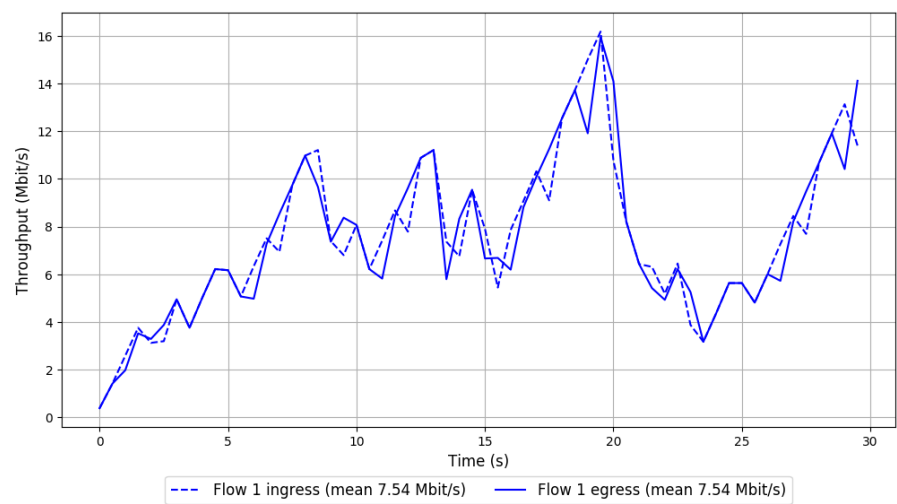
-- Flow 1:

Average throughput: 7.54 Mbit/s

95th percentile per-packet one-way delay: 53.664 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-16 18:03:29

End at: 2018-01-16 18:04:00

Below is generated by plot.py at 2018-01-16 20:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 53.593 ms

Loss rate: 0.67%

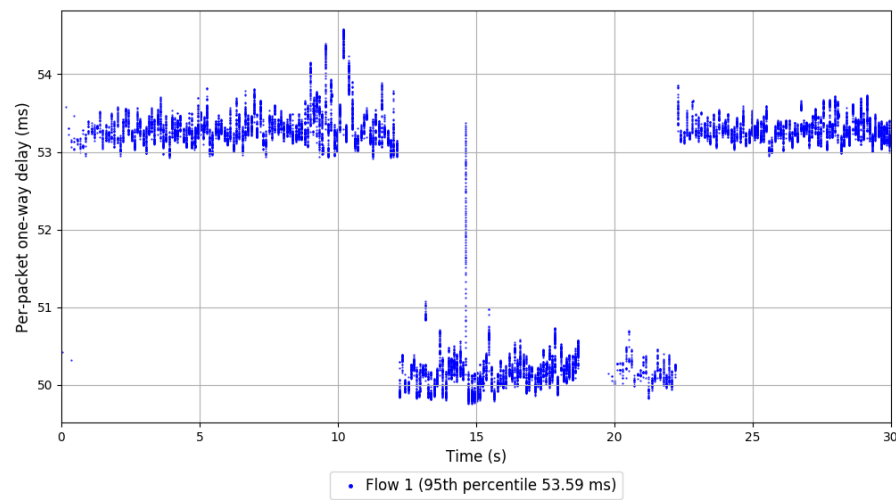
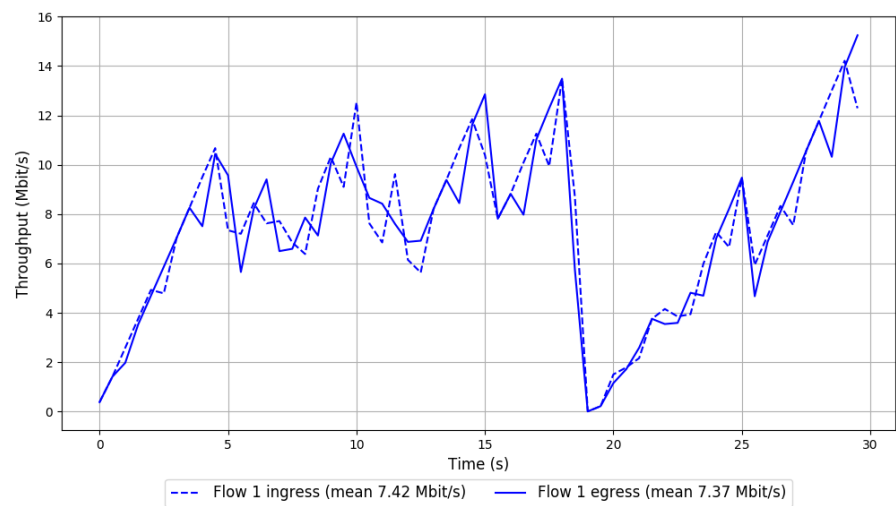
-- Flow 1:

Average throughput: 7.37 Mbit/s

95th percentile per-packet one-way delay: 53.593 ms

Loss rate: 0.67%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-16 18:17:32

End at: 2018-01-16 18:18:02

Below is generated by plot.py at 2018-01-16 20:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.37 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.00%

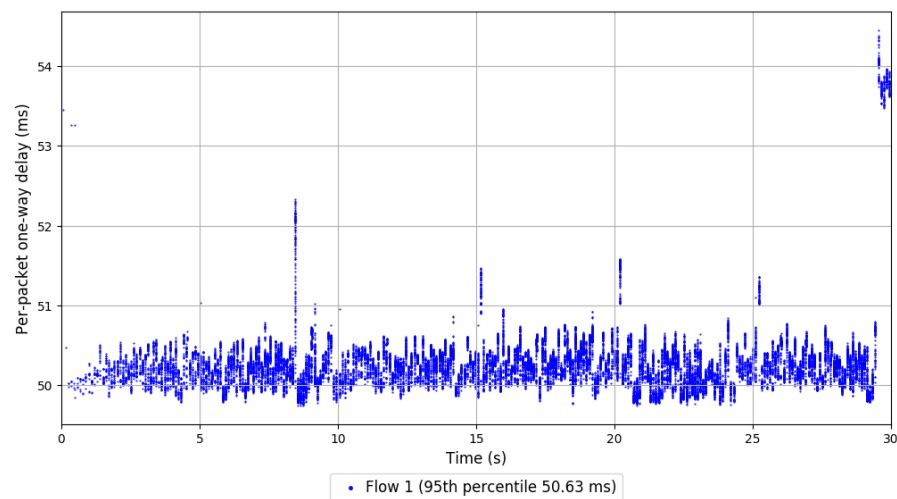
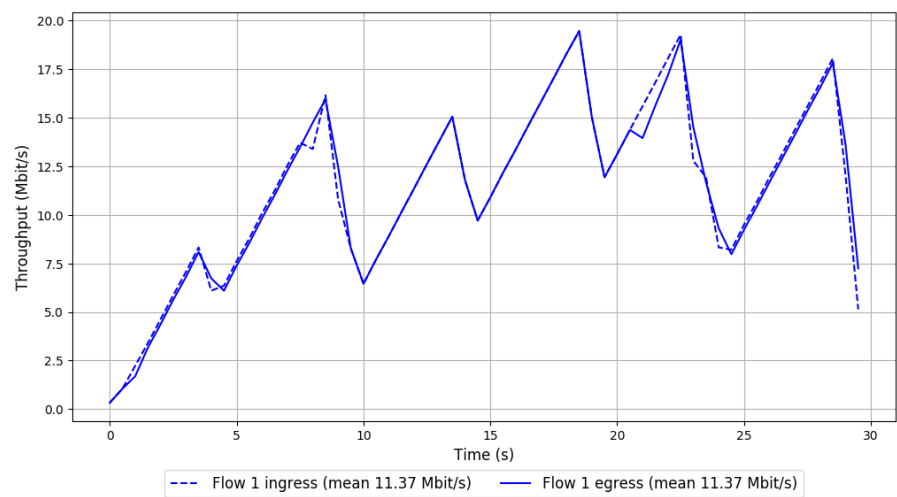
-- Flow 1:

Average throughput: 11.37 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-16 18:31:31

End at: 2018-01-16 18:32:01

Below is generated by plot.py at 2018-01-16 20:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 54.077 ms

Loss rate: 0.09%

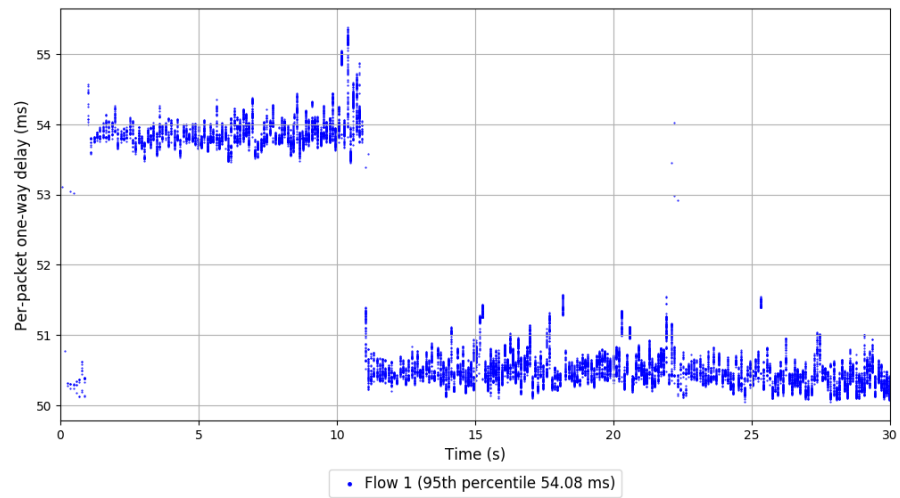
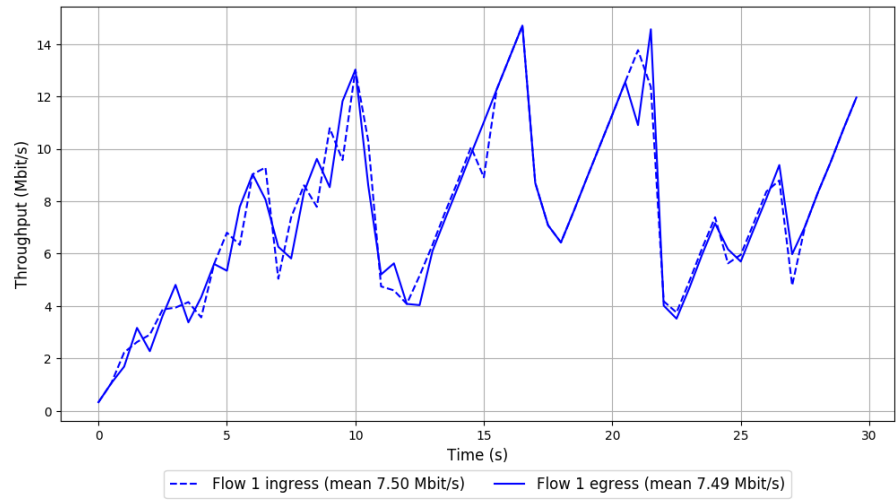
-- Flow 1:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 54.077 ms

Loss rate: 0.09%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-16 18:45:59

End at: 2018-01-16 18:46:29

Below is generated by plot.py at 2018-01-16 20:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.50 Mbit/s

95th percentile per-packet one-way delay: 54.540 ms

Loss rate: 0.00%

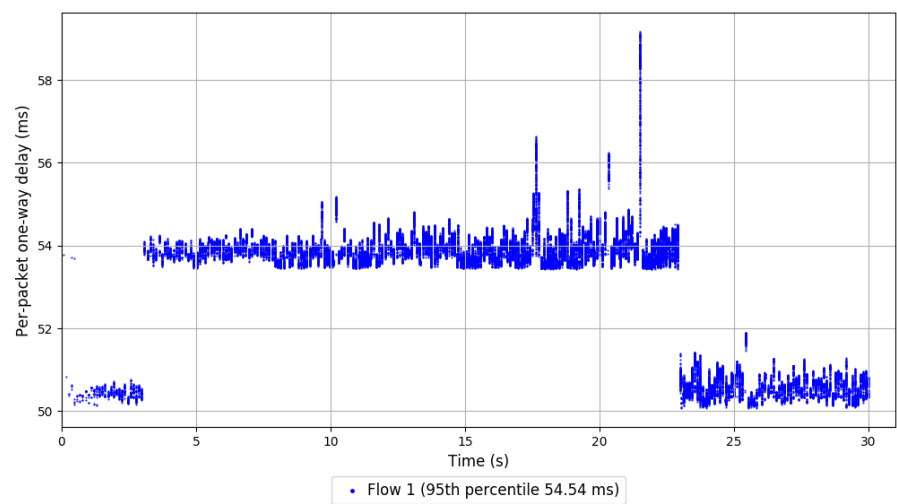
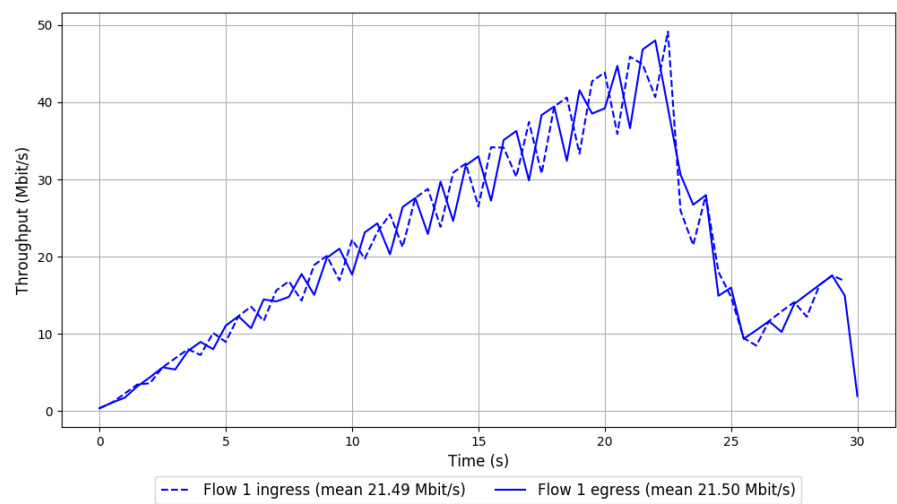
-- Flow 1:

Average throughput: 21.50 Mbit/s

95th percentile per-packet one-way delay: 54.540 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-16 19:00:02

End at: 2018-01-16 19:00:32

Below is generated by plot.py at 2018-01-16 20:42:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 54.231 ms

Loss rate: 0.04%

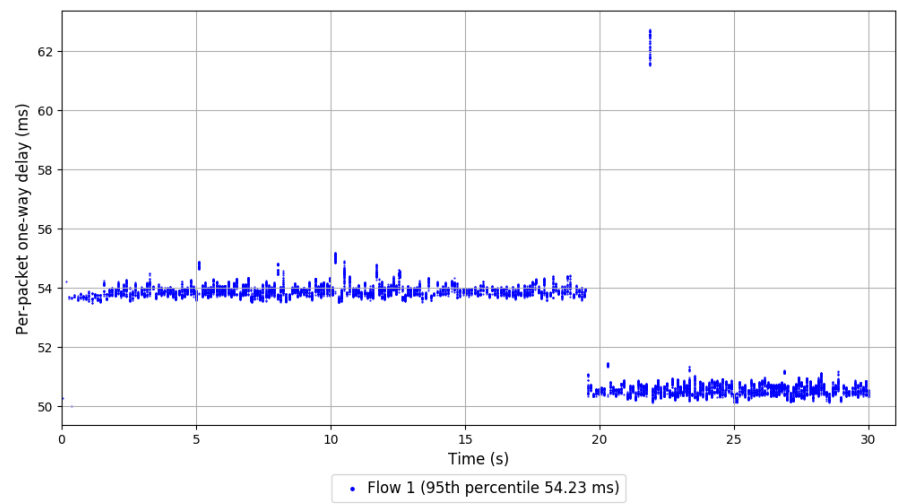
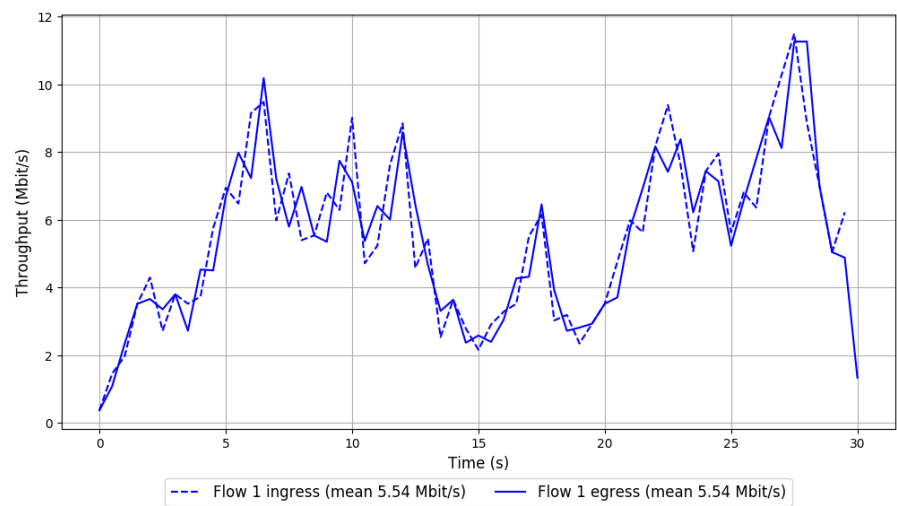
-- Flow 1:

Average throughput: 5.54 Mbit/s

95th percentile per-packet one-way delay: 54.231 ms

Loss rate: 0.04%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-01-16 17:05:20

End at: 2018-01-16 17:05:50

Below is generated by plot.py at 2018-01-16 20:52:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.07 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 0.14%

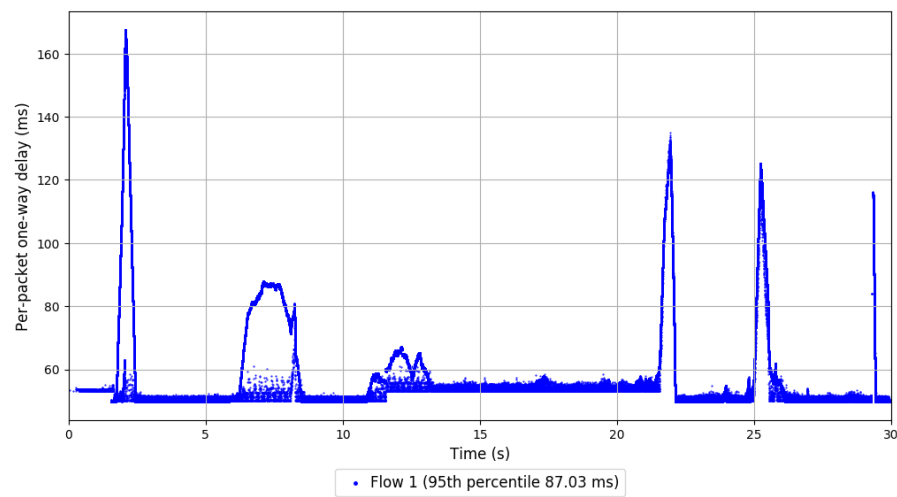
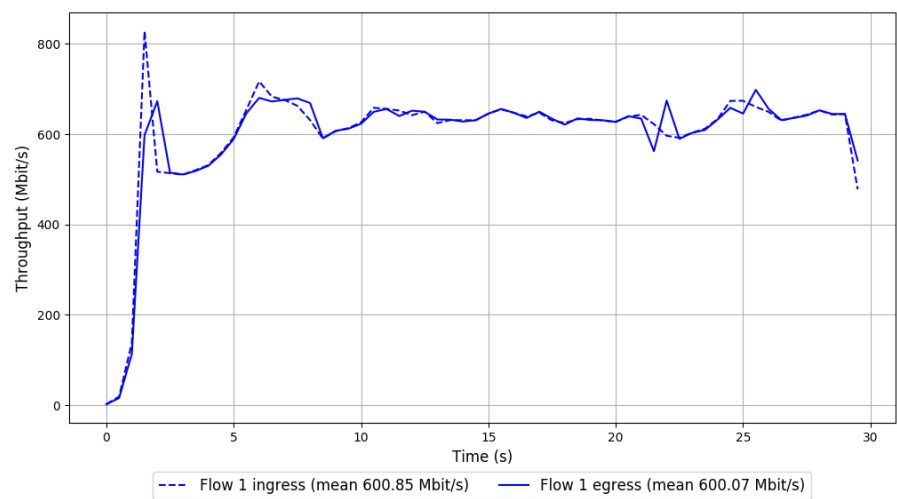
-- Flow 1:

Average throughput: 600.07 Mbit/s

95th percentile per-packet one-way delay: 87.029 ms

Loss rate: 0.14%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 17:19:13

End at: 2018-01-16 17:19:43

Below is generated by plot.py at 2018-01-16 20:52:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.55 Mbit/s

95th percentile per-packet one-way delay: 168.041 ms

Loss rate: 0.72%

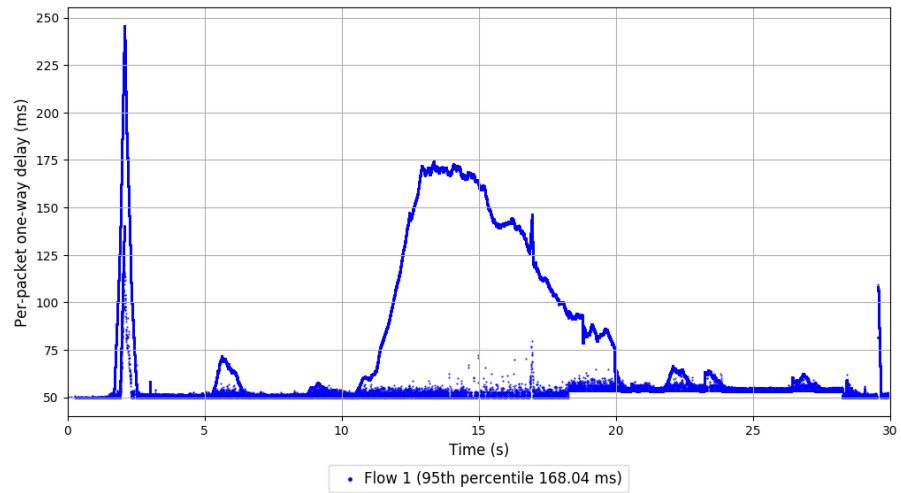
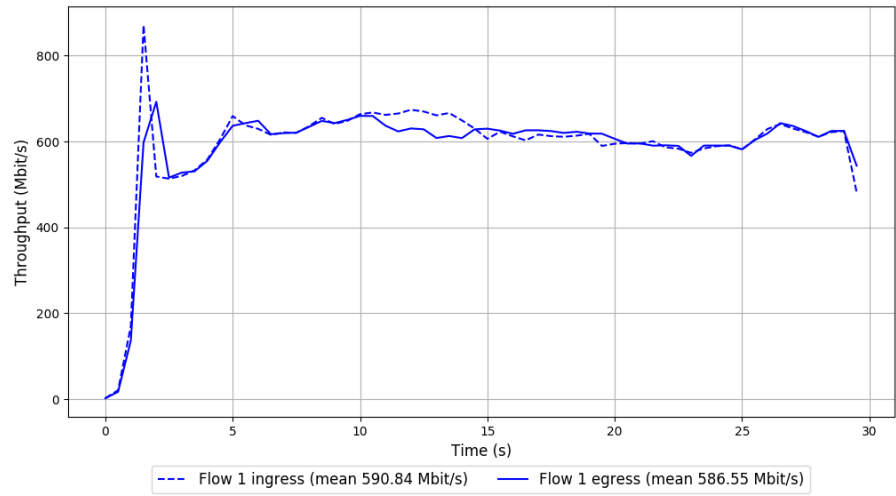
-- Flow 1:

Average throughput: 586.55 Mbit/s

95th percentile per-packet one-way delay: 168.041 ms

Loss rate: 0.72%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-16 17:33:28

End at: 2018-01-16 17:33:58

Below is generated by plot.py at 2018-01-16 20:52:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 599.20 Mbit/s

95th percentile per-packet one-way delay: 104.162 ms

Loss rate: 0.35%

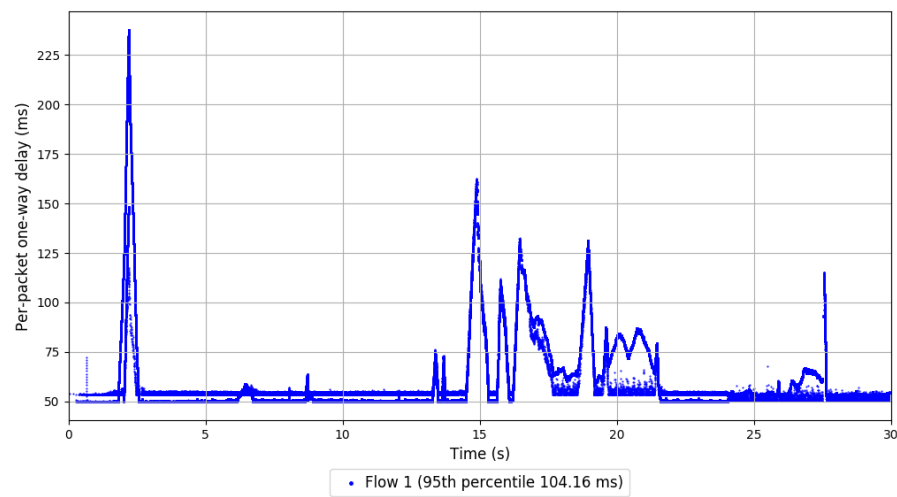
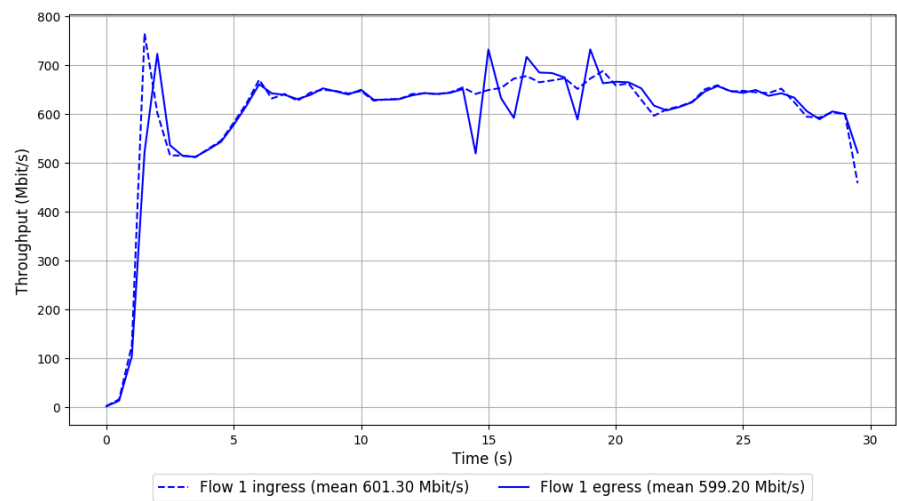
-- Flow 1:

Average throughput: 599.20 Mbit/s

95th percentile per-packet one-way delay: 104.162 ms

Loss rate: 0.35%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-16 17:47:37

End at: 2018-01-16 17:48:07

Below is generated by plot.py at 2018-01-16 20:52:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 552.43 Mbit/s

95th percentile per-packet one-way delay: 214.379 ms

Loss rate: 0.58%

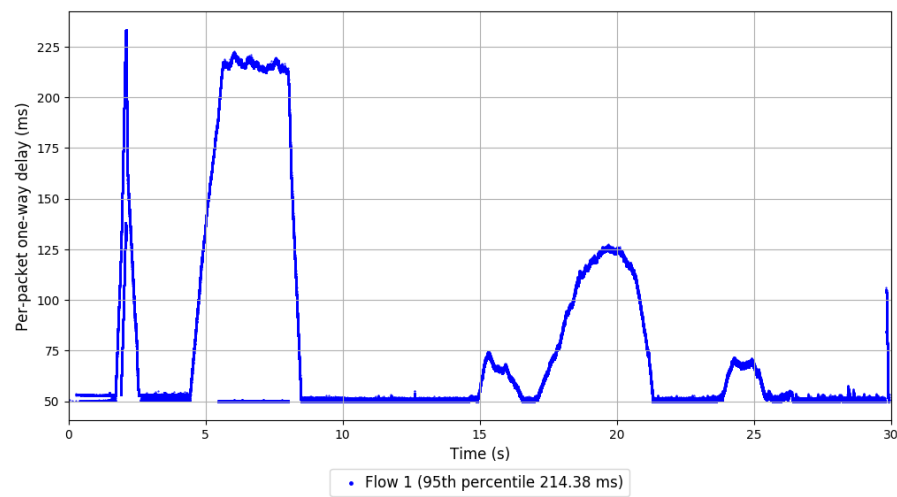
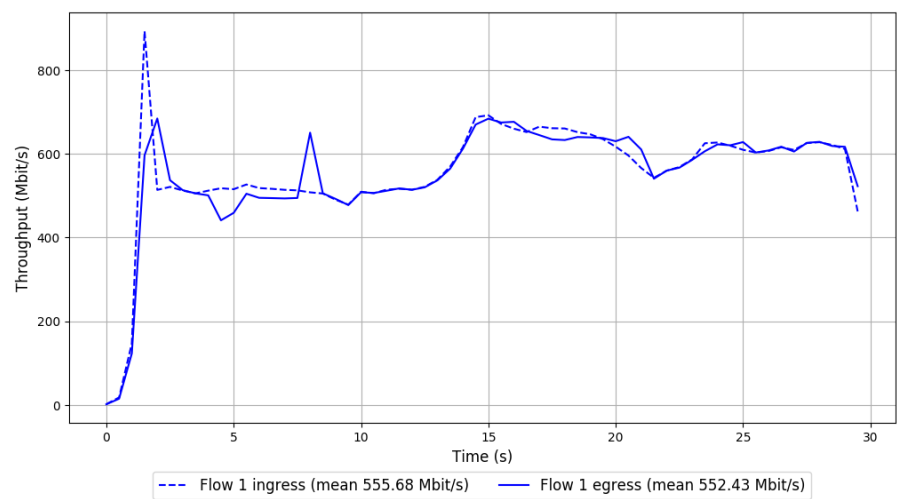
-- Flow 1:

Average throughput: 552.43 Mbit/s

95th percentile per-packet one-way delay: 214.379 ms

Loss rate: 0.58%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-16 18:01:47

End at: 2018-01-16 18:02:17

Below is generated by plot.py at 2018-01-16 20:52:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.09 Mbit/s

95th percentile per-packet one-way delay: 174.797 ms

Loss rate: 1.08%

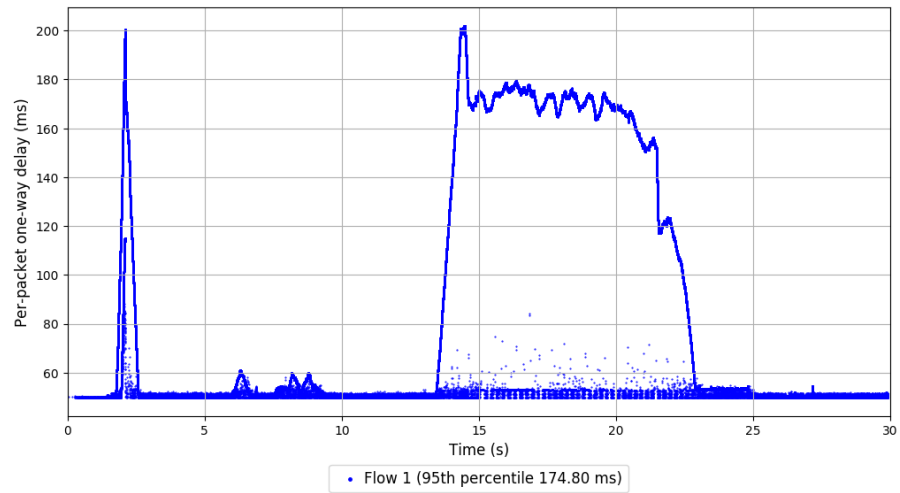
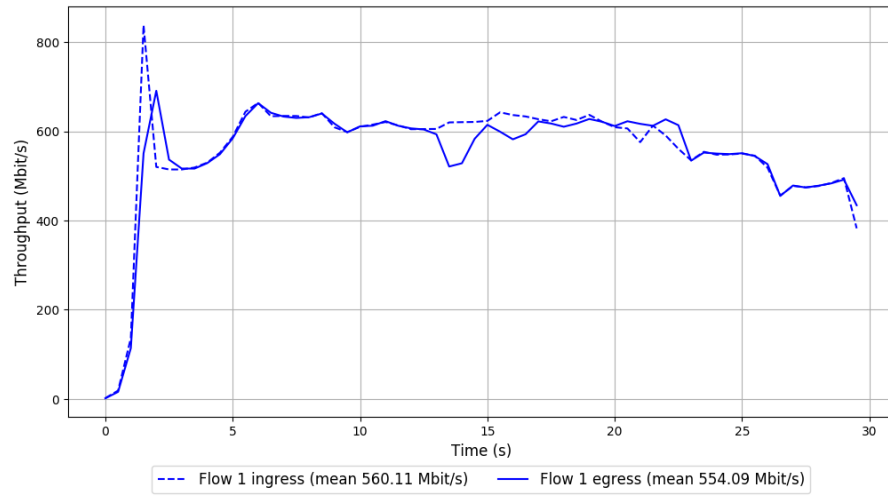
-- Flow 1:

Average throughput: 554.09 Mbit/s

95th percentile per-packet one-way delay: 174.797 ms

Loss rate: 1.08%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-16 18:15:51

End at: 2018-01-16 18:16:21

Below is generated by plot.py at 2018-01-16 20:52:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.67 Mbit/s

95th percentile per-packet one-way delay: 62.559 ms

Loss rate: 0.19%

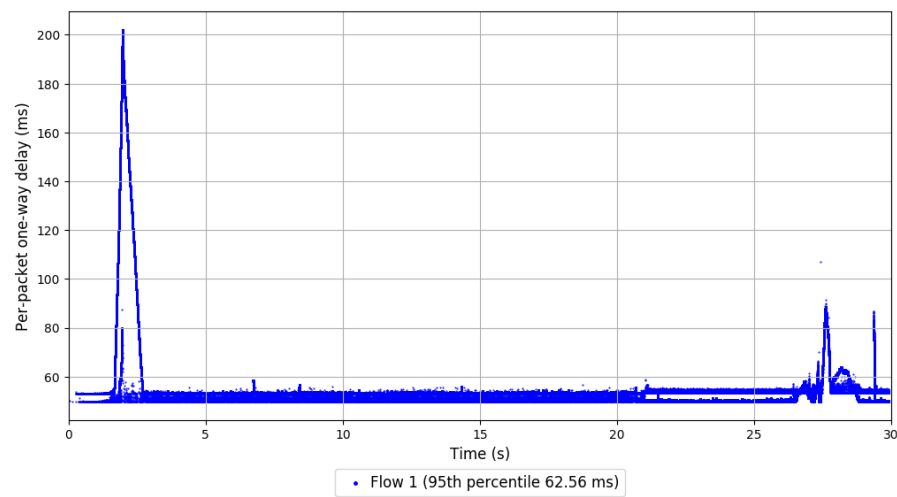
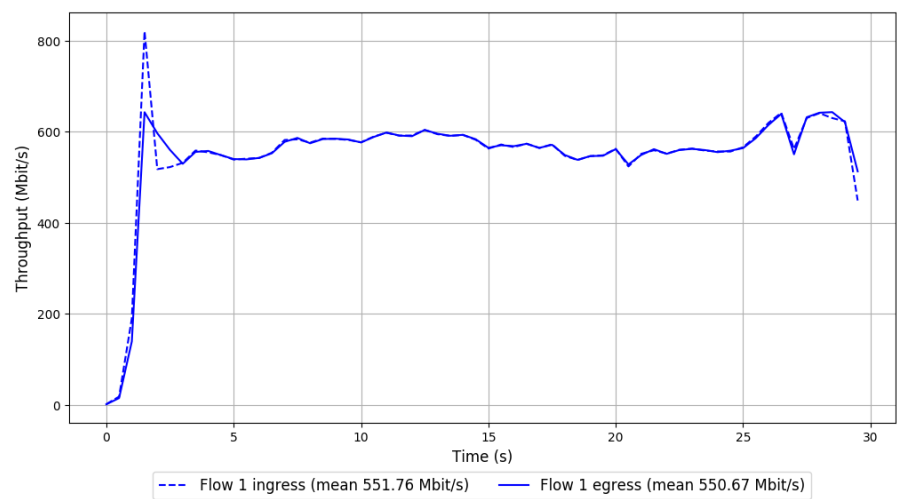
-- Flow 1:

Average throughput: 550.67 Mbit/s

95th percentile per-packet one-way delay: 62.559 ms

Loss rate: 0.19%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-16 18:29:46

End at: 2018-01-16 18:30:16

Below is generated by plot.py at 2018-01-16 20:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 609.00 Mbit/s

95th percentile per-packet one-way delay: 67.114 ms

Loss rate: 0.22%

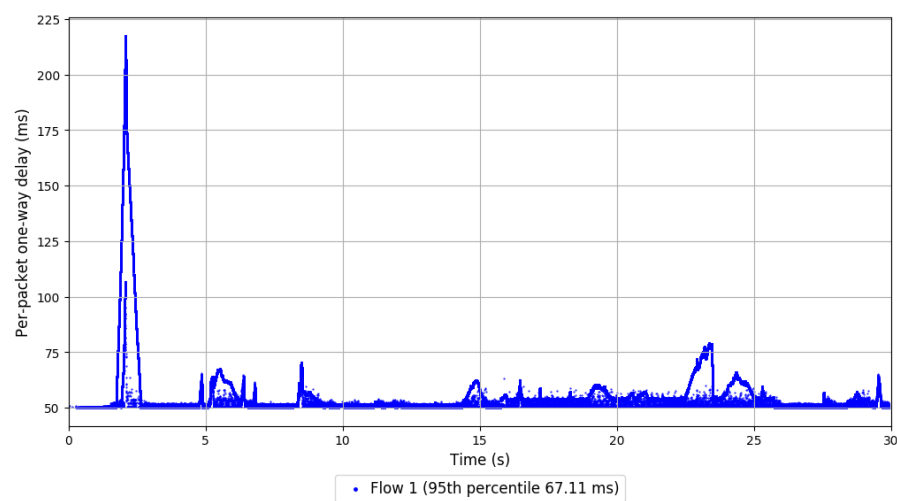
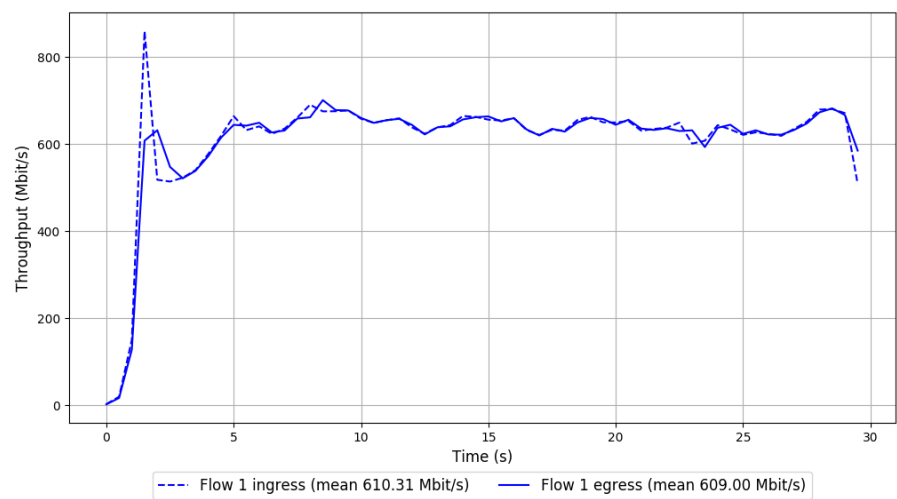
-- Flow 1:

Average throughput: 609.00 Mbit/s

95th percentile per-packet one-way delay: 67.114 ms

Loss rate: 0.22%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-16 18:44:15

End at: 2018-01-16 18:44:45

Below is generated by plot.py at 2018-01-16 20:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 586.37 Mbit/s

95th percentile per-packet one-way delay: 87.272 ms

Loss rate: 0.26%

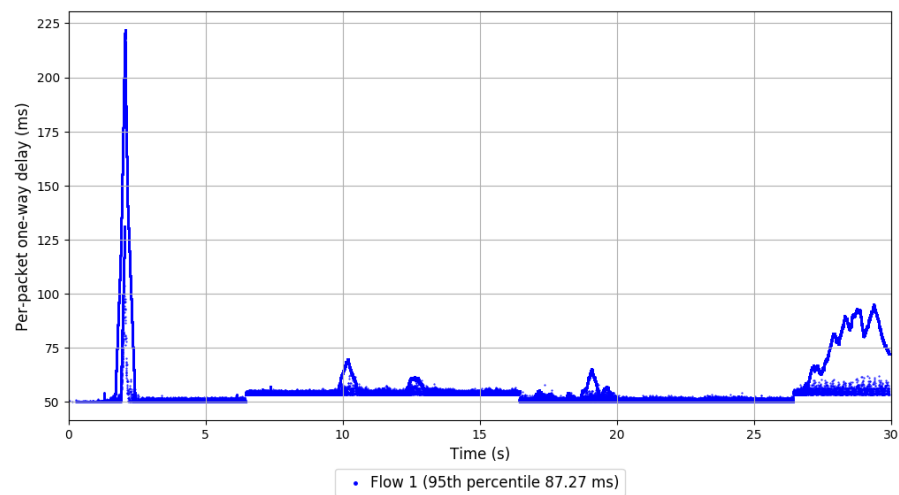
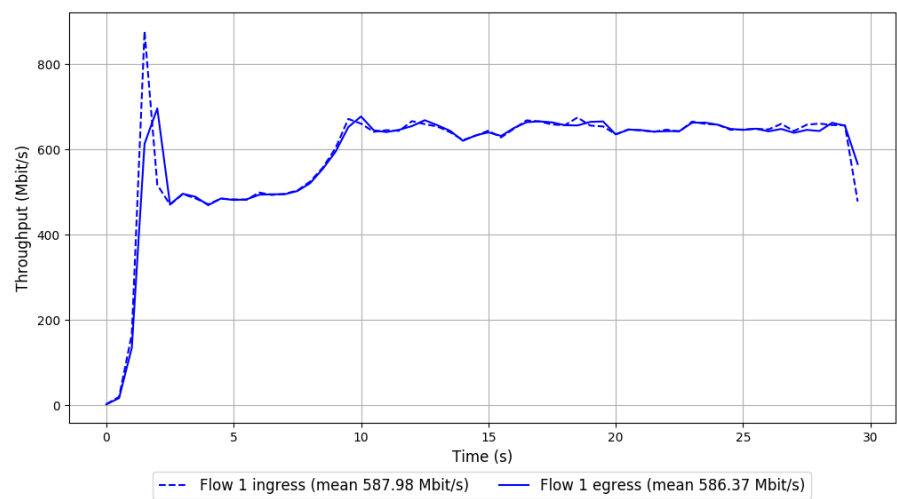
-- Flow 1:

Average throughput: 586.37 Mbit/s

95th percentile per-packet one-way delay: 87.272 ms

Loss rate: 0.26%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-16 18:58:20

End at: 2018-01-16 18:58:50

Below is generated by plot.py at 2018-01-16 21:03:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 560.10 Mbit/s

95th percentile per-packet one-way delay: 84.066 ms

Loss rate: 0.24%

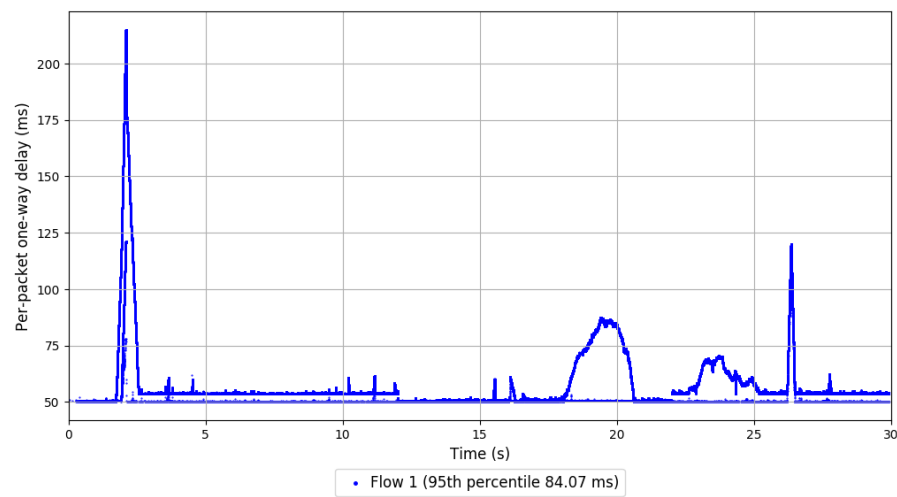
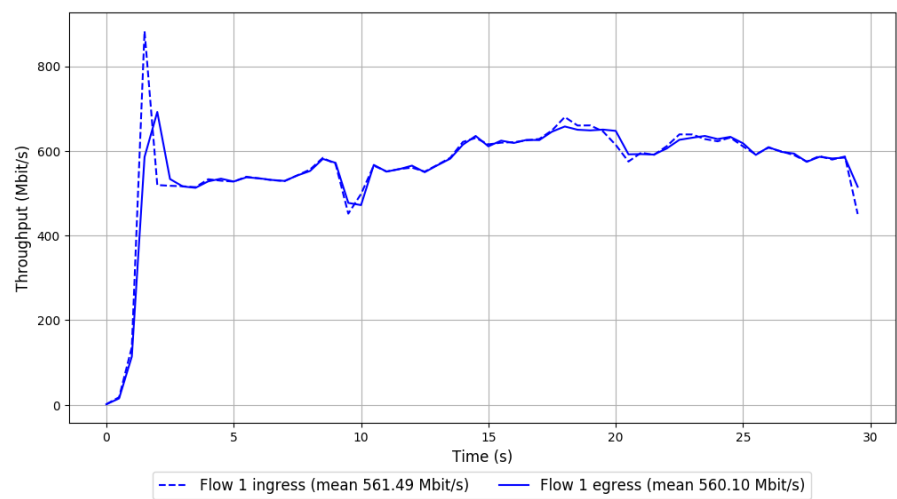
-- Flow 1:

Average throughput: 560.10 Mbit/s

95th percentile per-packet one-way delay: 84.066 ms

Loss rate: 0.24%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-16 19:12:30

End at: 2018-01-16 19:13:00

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.28 Mbit/s

95th percentile per-packet one-way delay: 215.365 ms

Loss rate: 0.66%

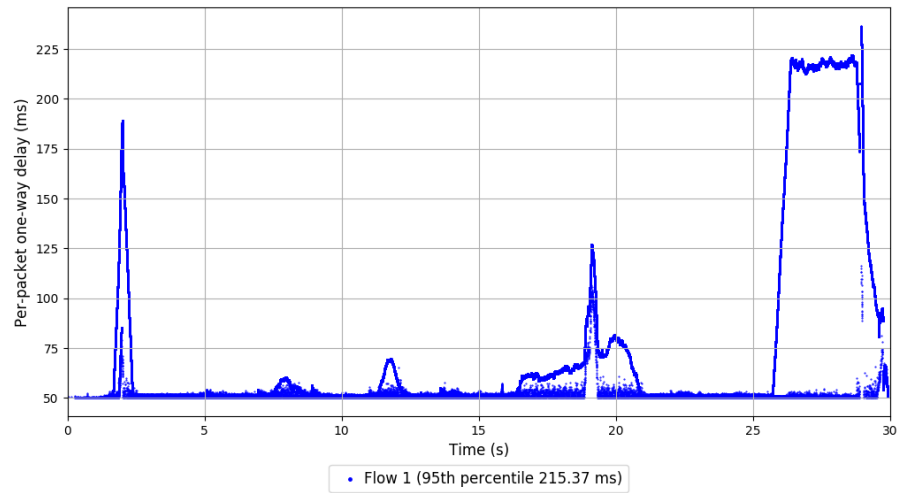
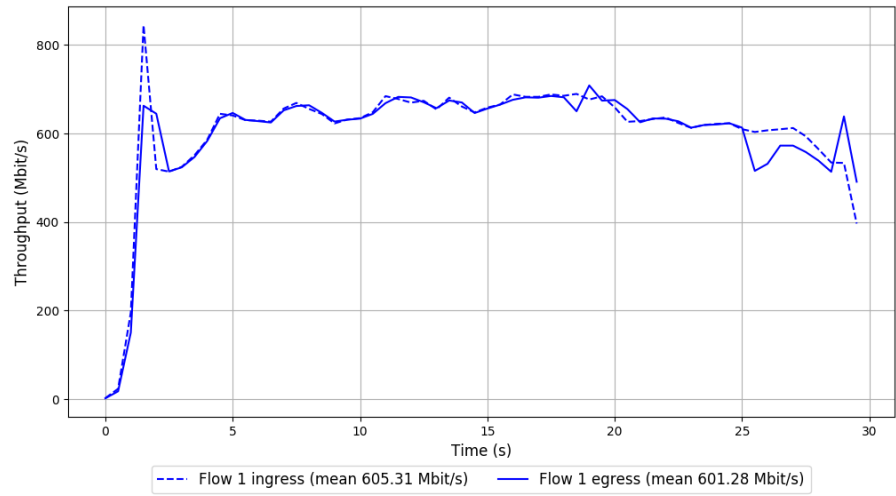
-- Flow 1:

Average throughput: 601.28 Mbit/s

95th percentile per-packet one-way delay: 215.365 ms

Loss rate: 0.66%

Run 10: Report of PCC — Data Link

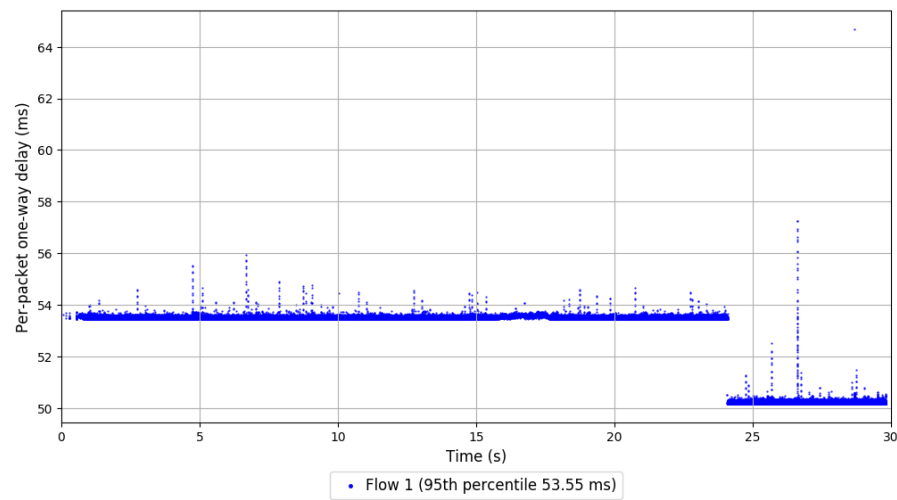
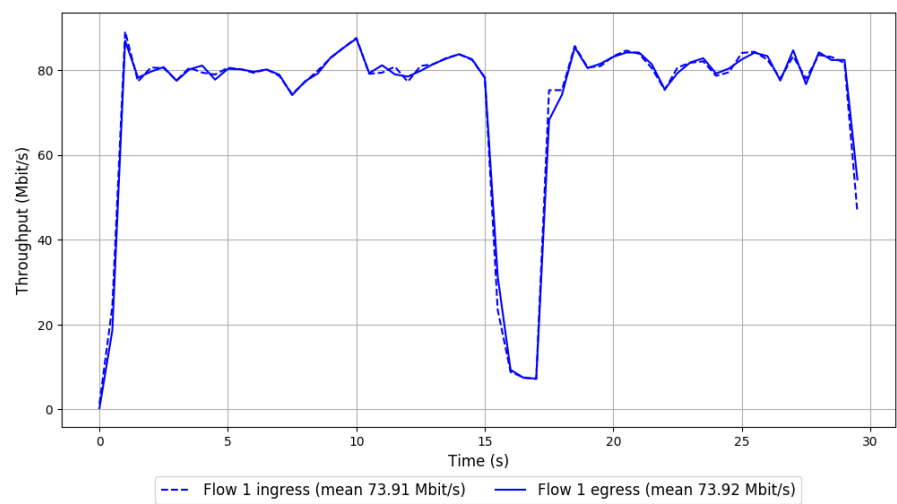


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 16:59:17
End at: 2018-01-16 16:59:47

# Below is generated by plot.py at 2018-01-16 21:03:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.92 Mbit/s
95th percentile per-packet one-way delay: 53.551 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.92 Mbit/s
95th percentile per-packet one-way delay: 53.551 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link

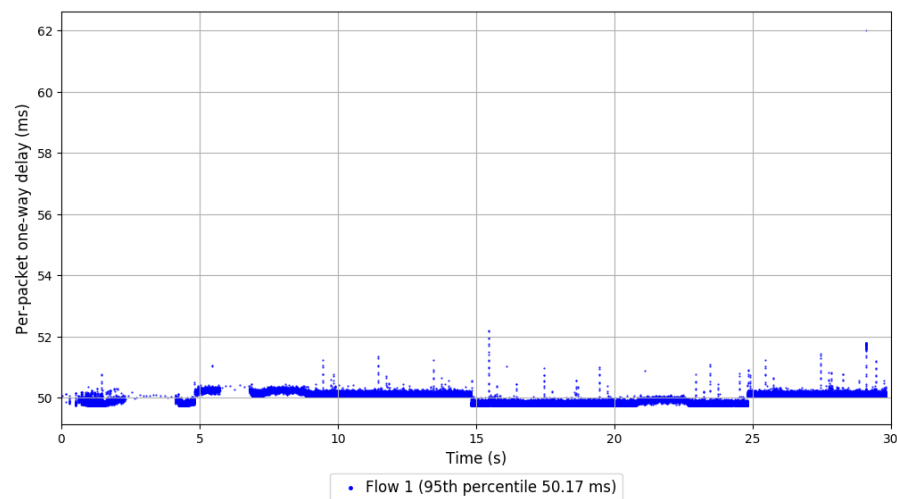
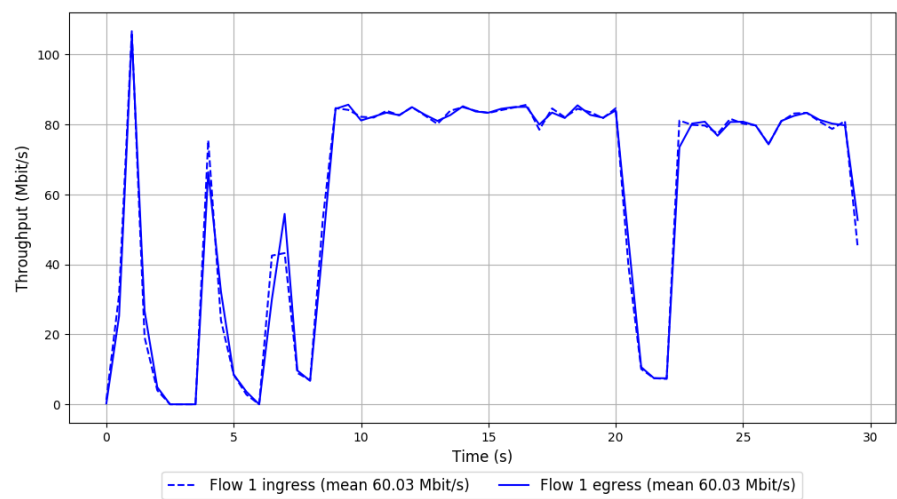


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 17:13:07
End at: 2018-01-16 17:13:37

# Below is generated by plot.py at 2018-01-16 21:03:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 50.166 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 50.166 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 17:27:09

End at: 2018-01-16 17:27:39

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 53.455 ms

Loss rate: 0.00%

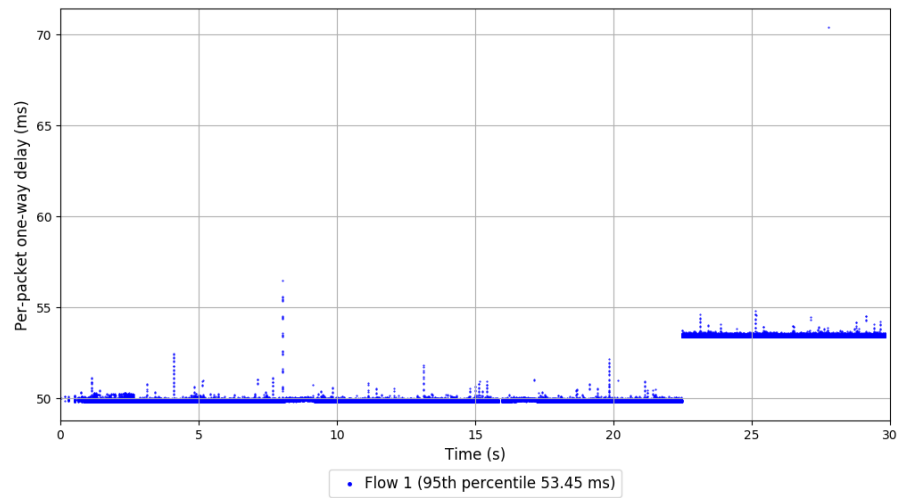
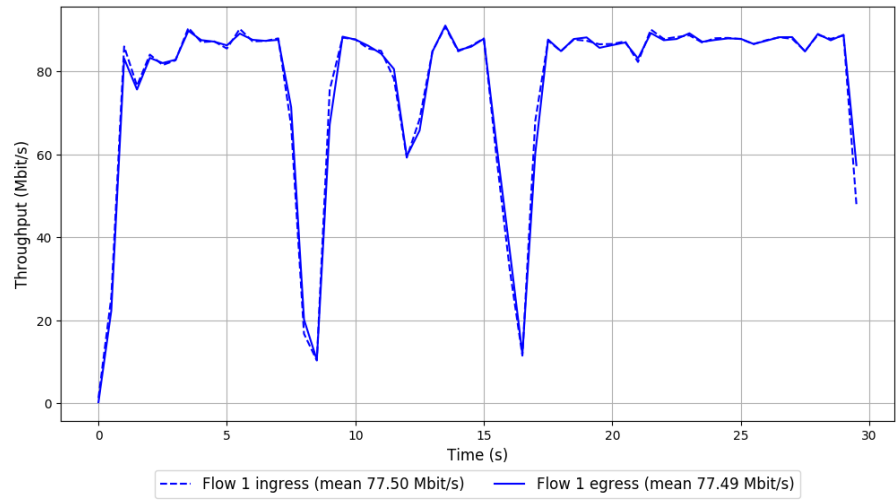
-- Flow 1:

Average throughput: 77.49 Mbit/s

95th percentile per-packet one-way delay: 53.455 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 17:41:27

End at: 2018-01-16 17:41:57

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 53.496 ms

Loss rate: 0.00%

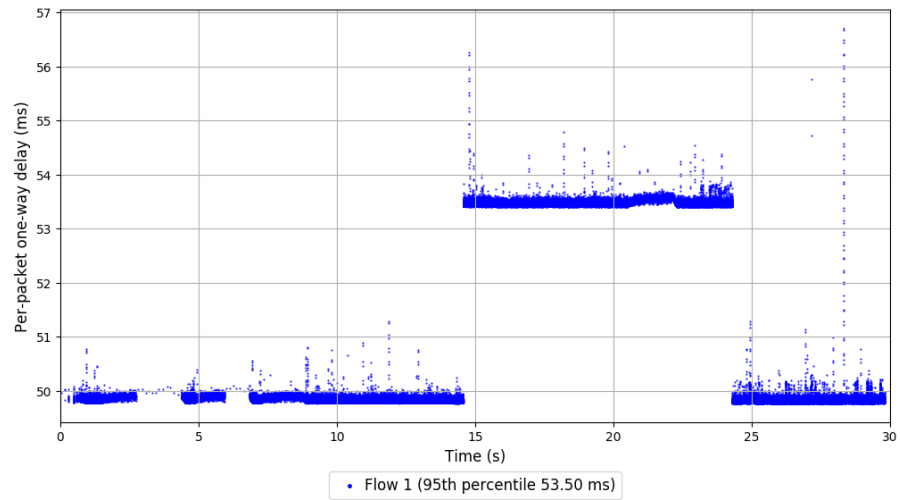
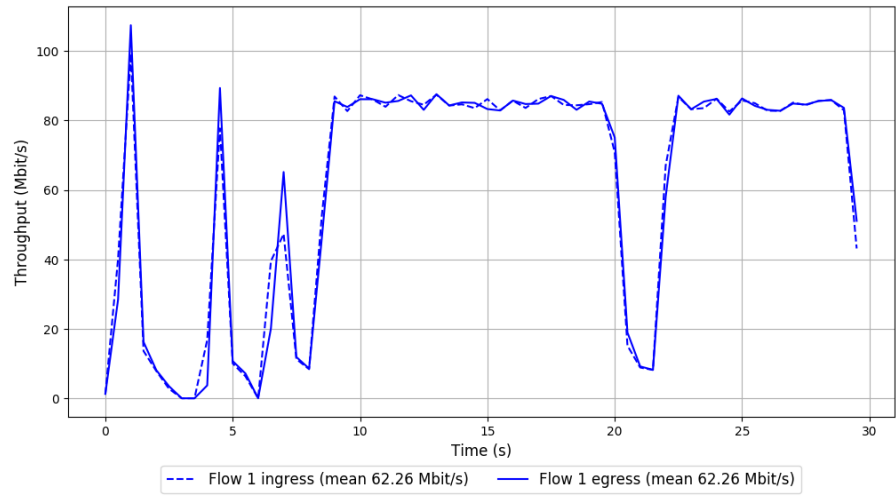
-- Flow 1:

Average throughput: 62.26 Mbit/s

95th percentile per-packet one-way delay: 53.496 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 17:55:35

End at: 2018-01-16 17:56:05

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 53.575 ms

Loss rate: 0.00%

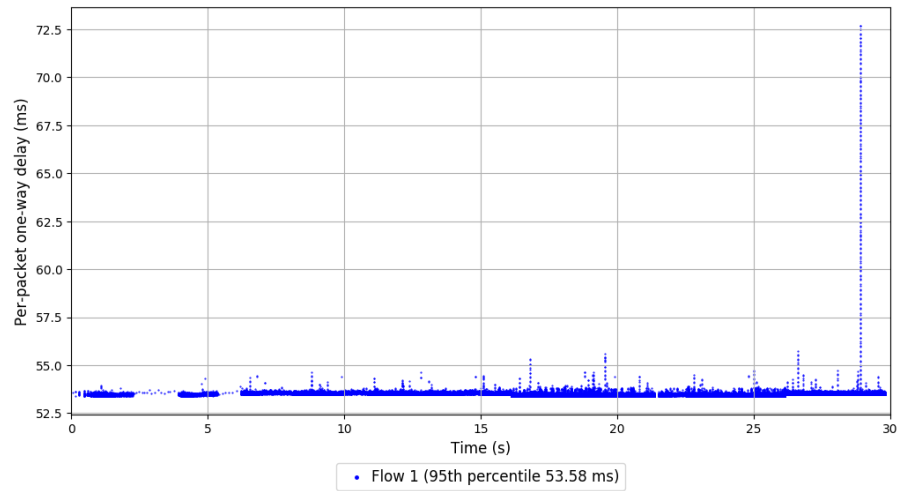
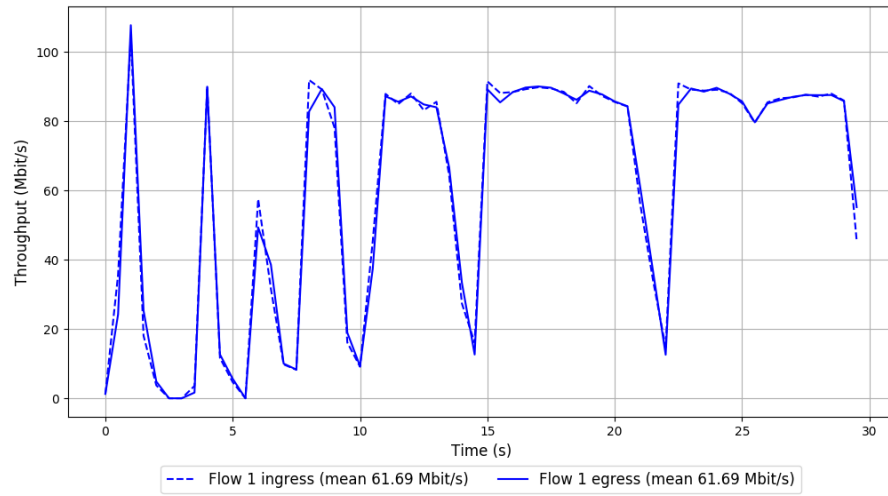
-- Flow 1:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 53.575 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 18:10:00

End at: 2018-01-16 18:10:30

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 49.902 ms

Loss rate: 0.00%

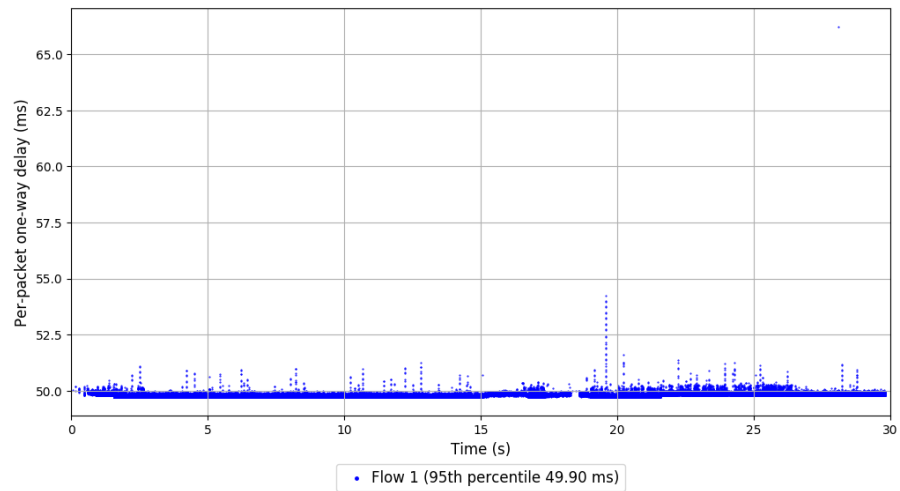
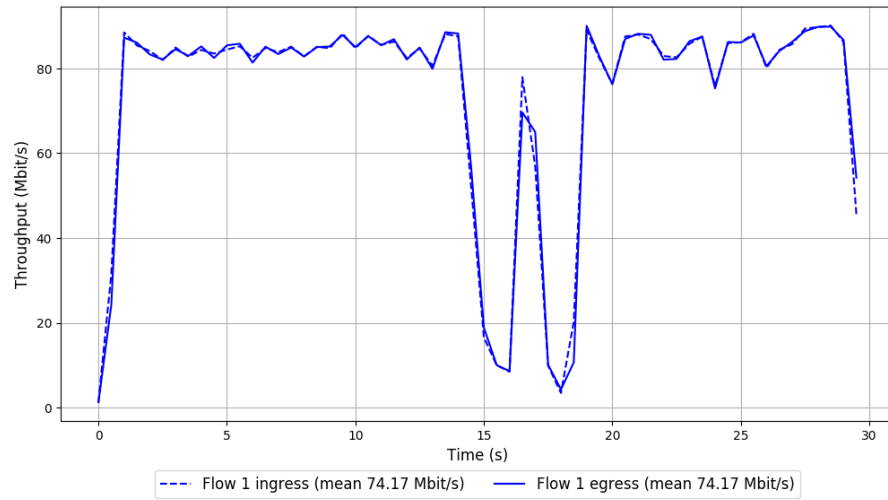
-- Flow 1:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 49.902 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 18:23:43

End at: 2018-01-16 18:24:13

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 50.191 ms

Loss rate: 0.00%

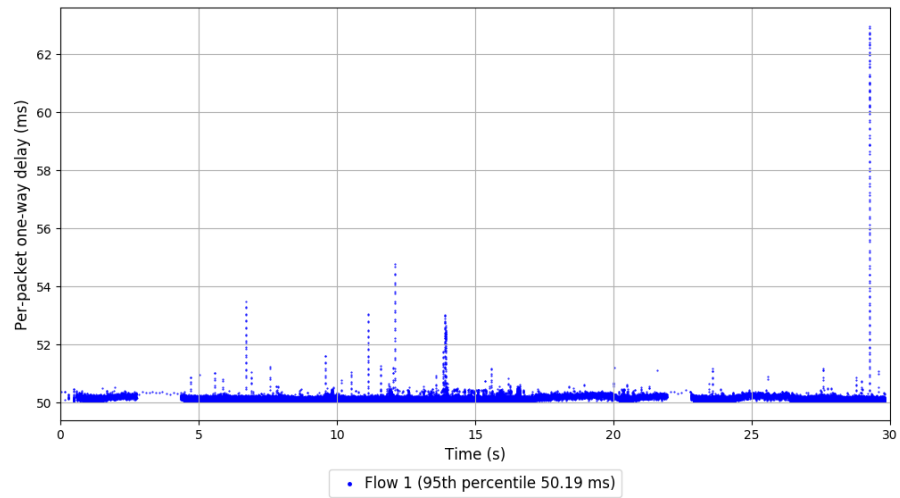
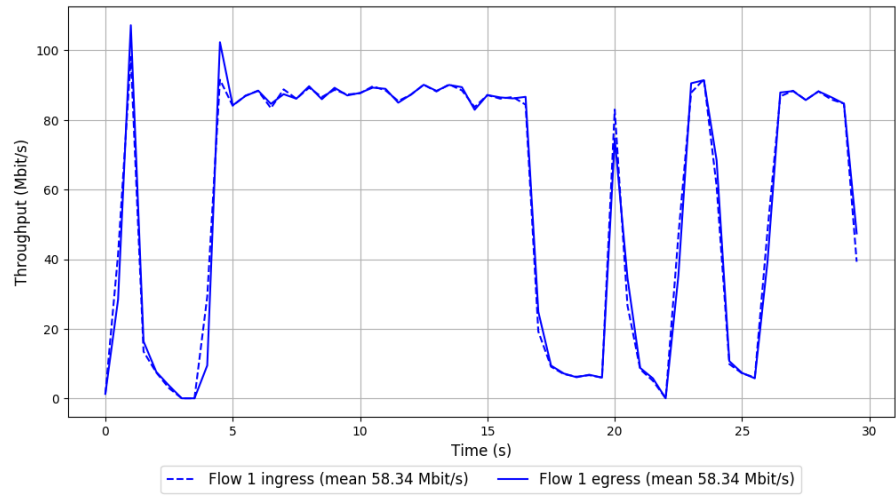
-- Flow 1:

Average throughput: 58.34 Mbit/s

95th percentile per-packet one-way delay: 50.191 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-16 18:38:00

End at: 2018-01-16 18:38:30

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 53.490 ms

Loss rate: 0.00%

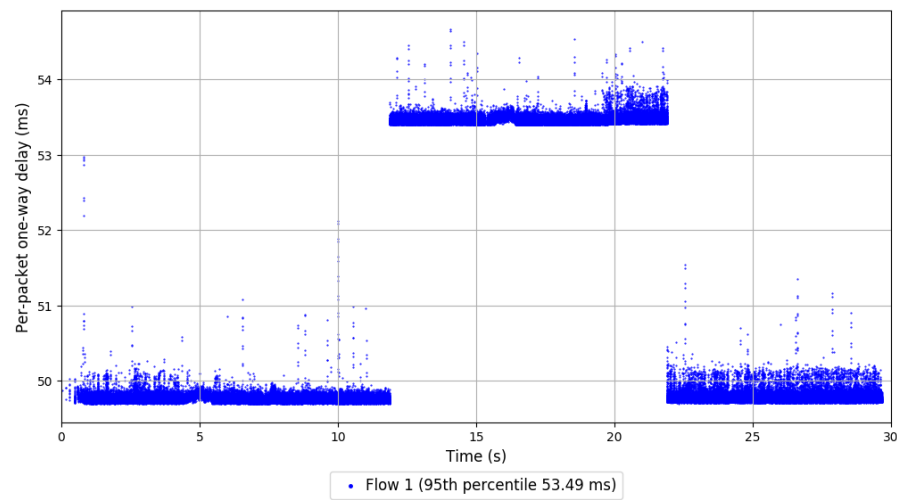
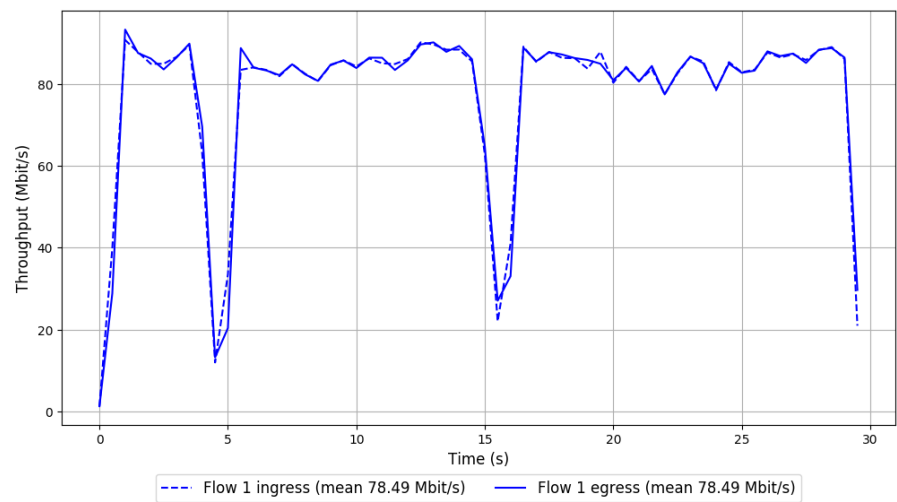
-- Flow 1:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 53.490 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 18:52:31

End at: 2018-01-16 18:53:01

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.13 Mbit/s

95th percentile per-packet one-way delay: 50.431 ms

Loss rate: 0.00%

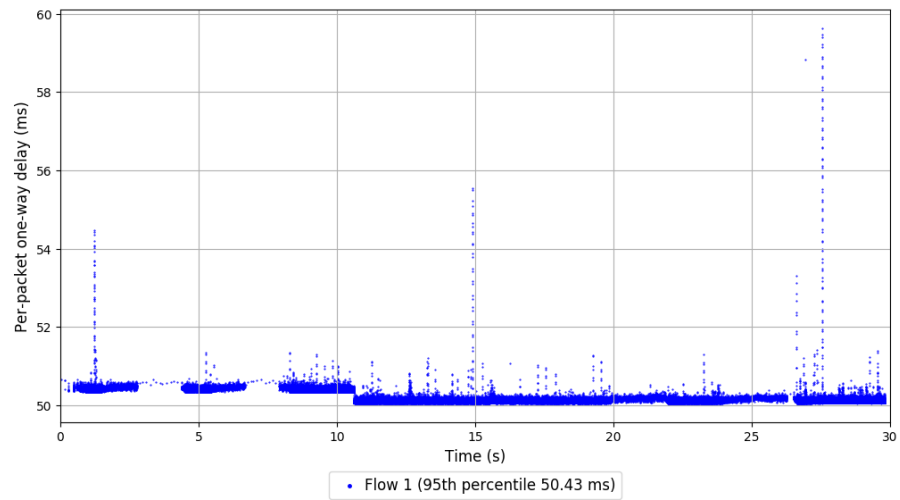
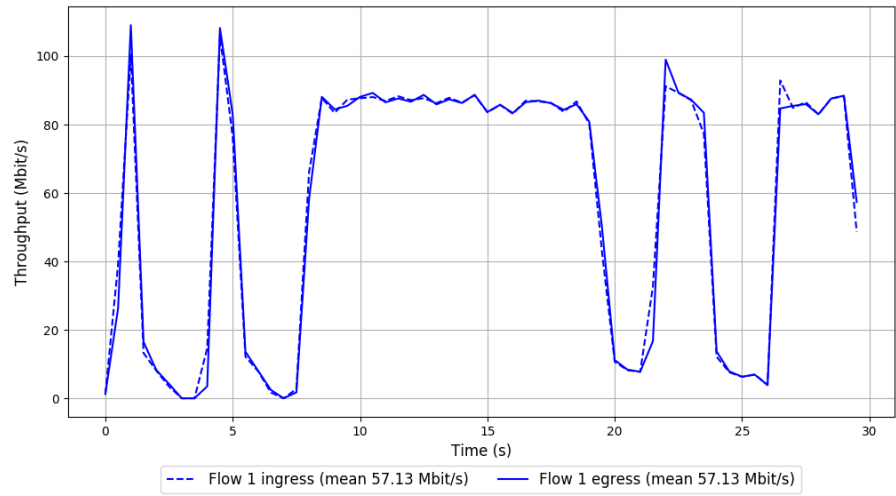
-- Flow 1:

Average throughput: 57.13 Mbit/s

95th percentile per-packet one-way delay: 50.431 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

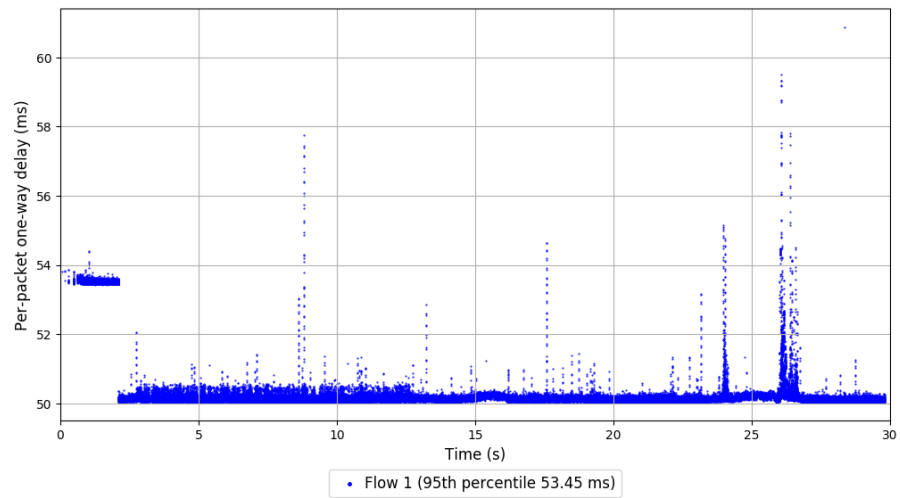
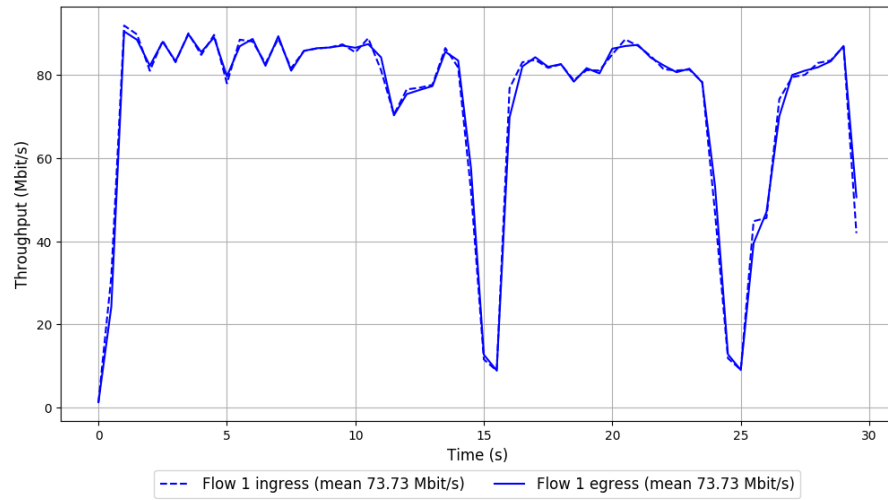


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 19:06:19
End at: 2018-01-16 19:06:49

# Below is generated by plot.py at 2018-01-16 21:03:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.73 Mbit/s
95th percentile per-packet one-way delay: 53.446 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.73 Mbit/s
95th percentile per-packet one-way delay: 53.446 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

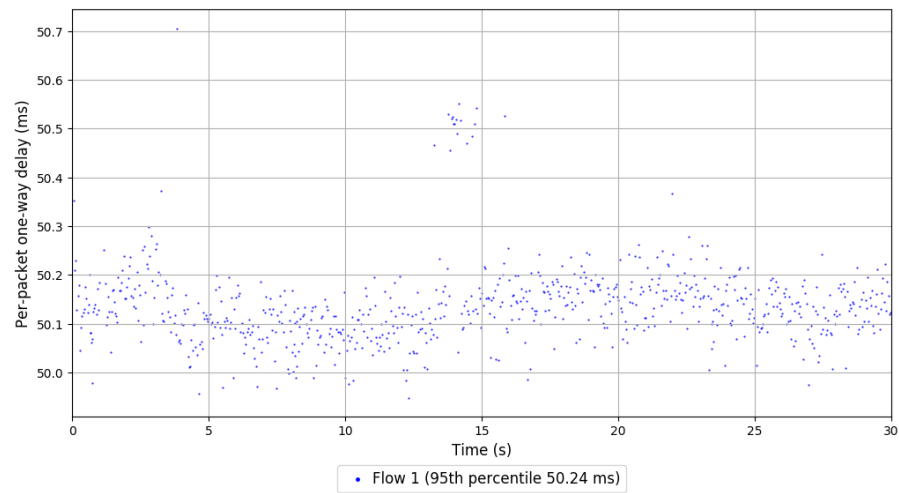
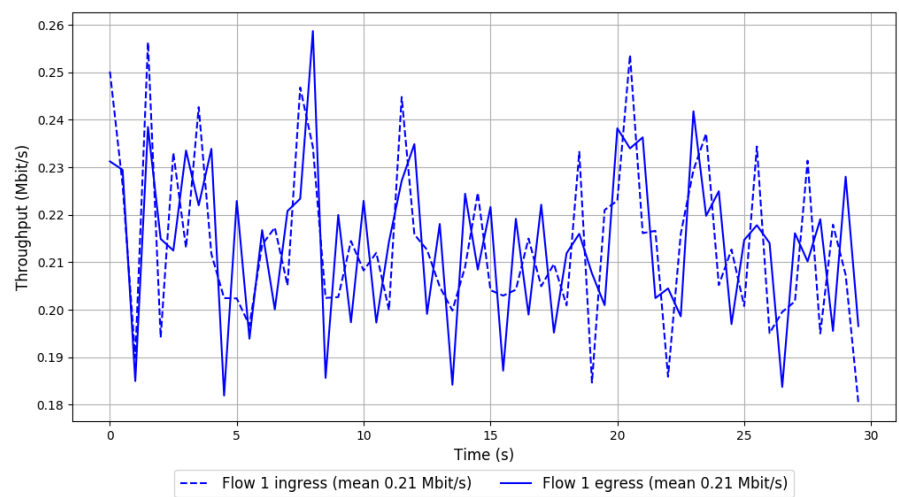


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 16:54:58
End at: 2018-01-16 16:55:28

# Below is generated by plot.py at 2018-01-16 21:03:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.242 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.242 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

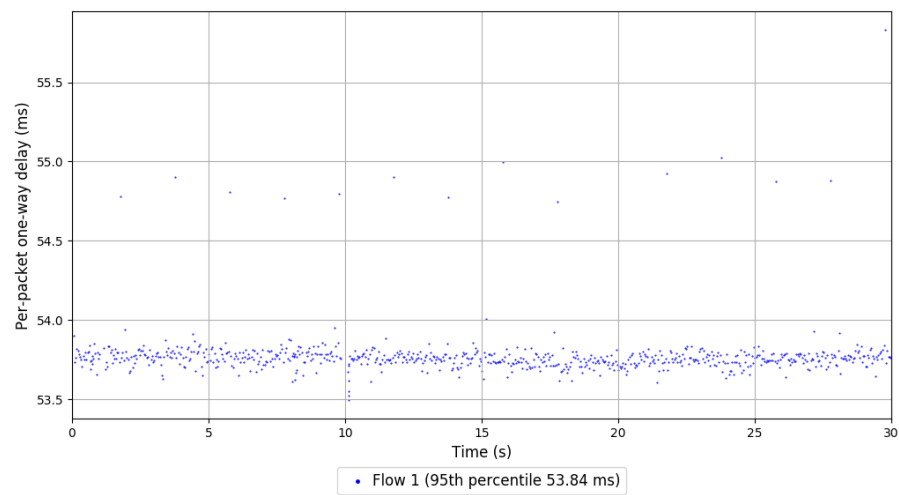
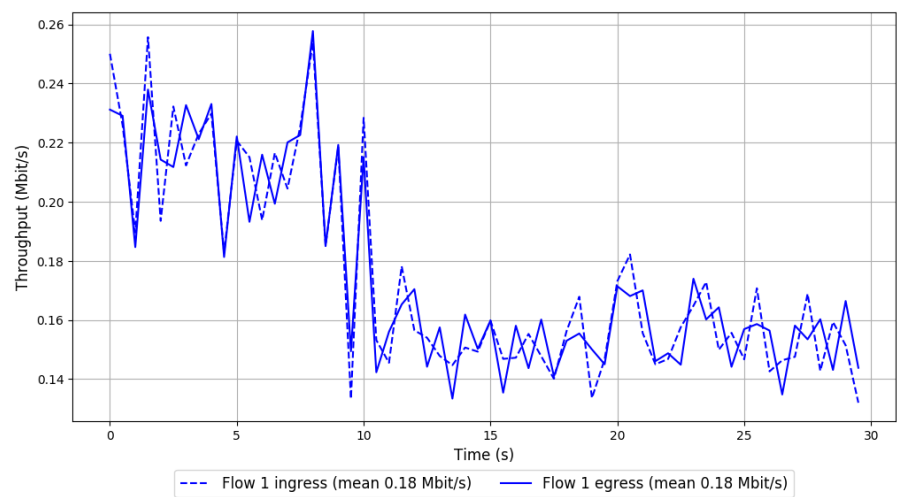


```
Run 2: Statistics of SCReAM

Start at: 2018-01-16 17:08:53
End at: 2018-01-16 17:09:23

# Below is generated by plot.py at 2018-01-16 21:03:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-16 17:22:52

End at: 2018-01-16 17:23:22

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.00%

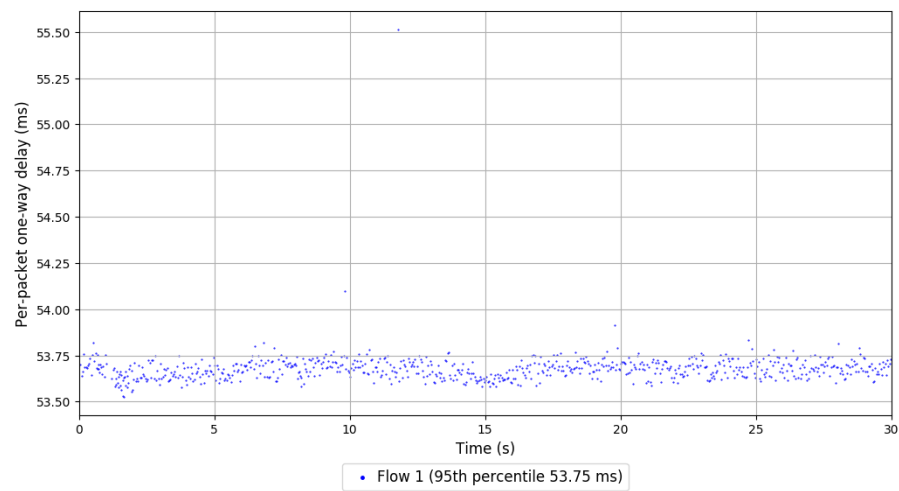
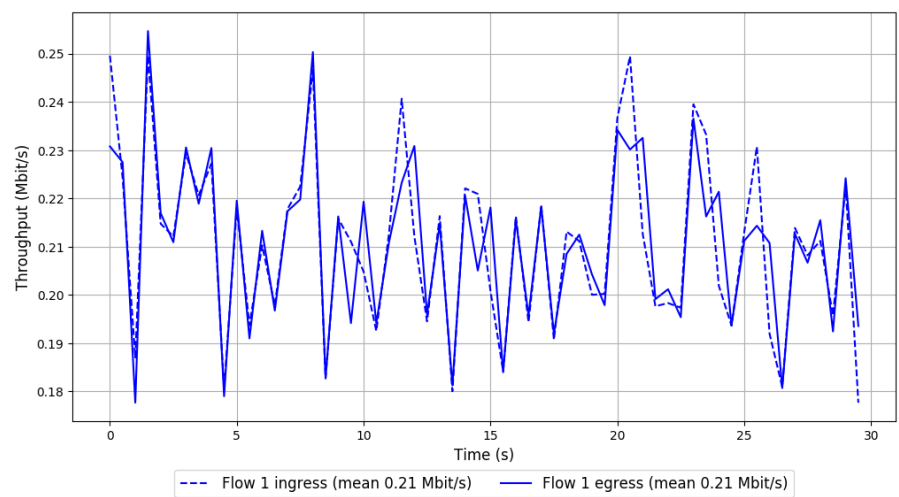
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-16 17:37:06

End at: 2018-01-16 17:37:36

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.120 ms

Loss rate: 0.00%

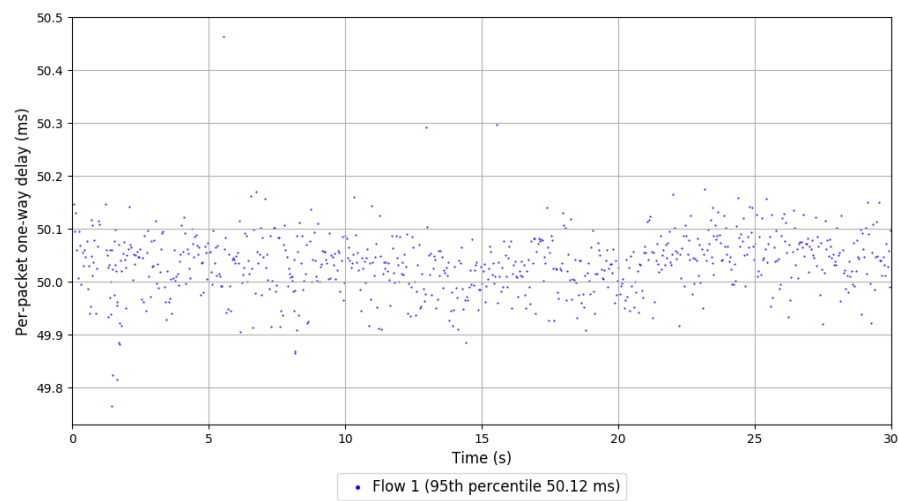
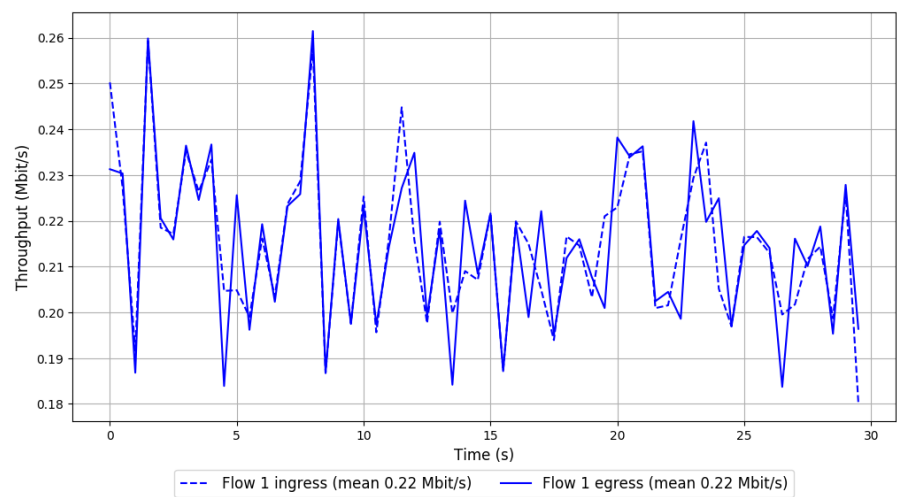
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.120 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-16 17:51:10

End at: 2018-01-16 17:51:40

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.472 ms

Loss rate: 0.00%

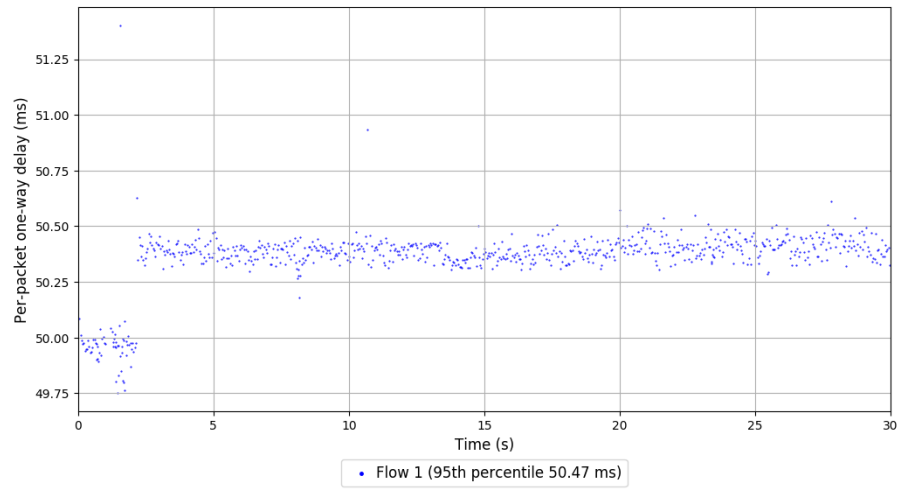
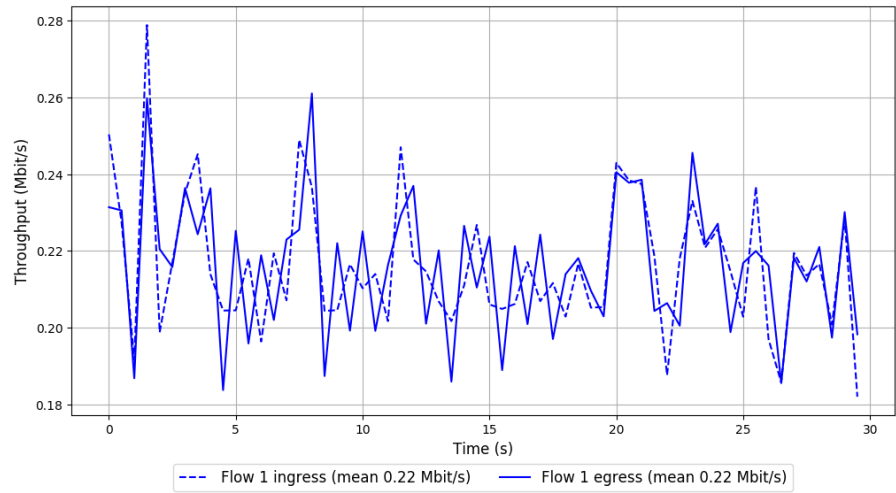
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.472 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-16 18:05:21

End at: 2018-01-16 18:05:51

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.00%

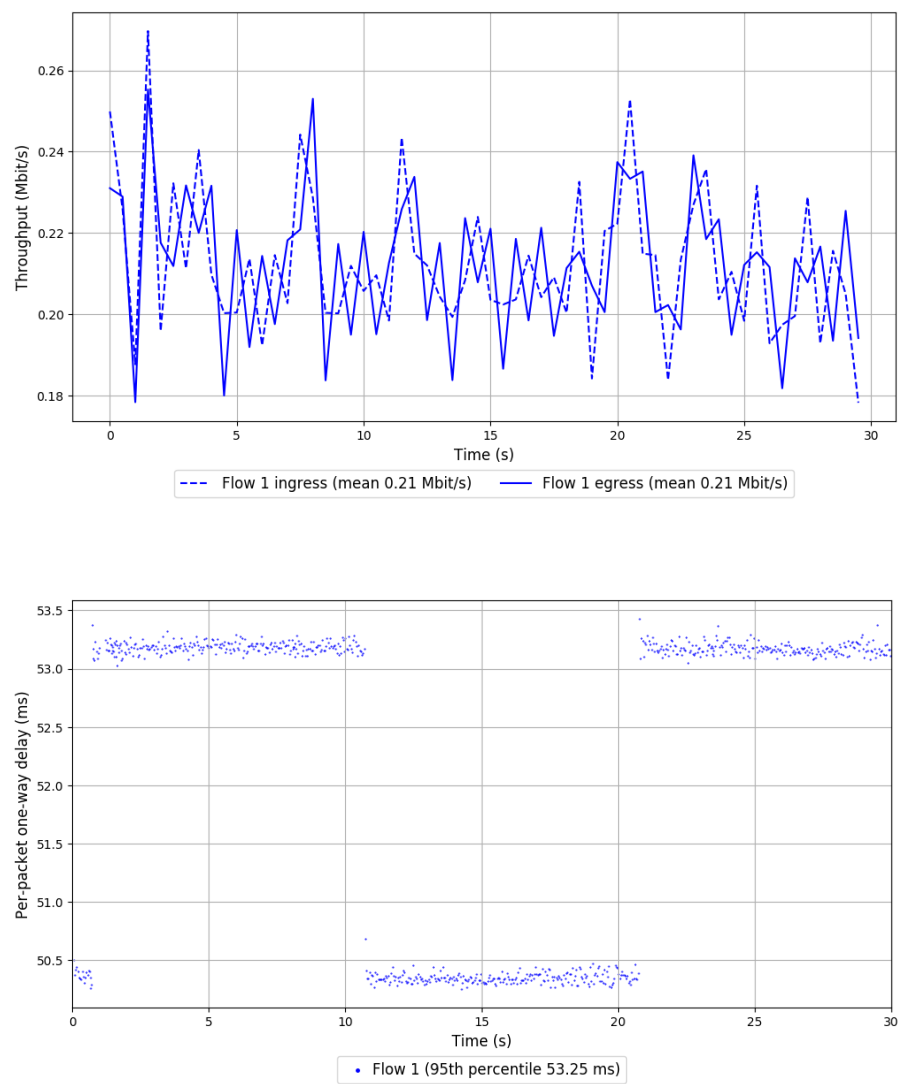
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.253 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-16 18:19:25

End at: 2018-01-16 18:19:55

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.709 ms

Loss rate: 0.00%

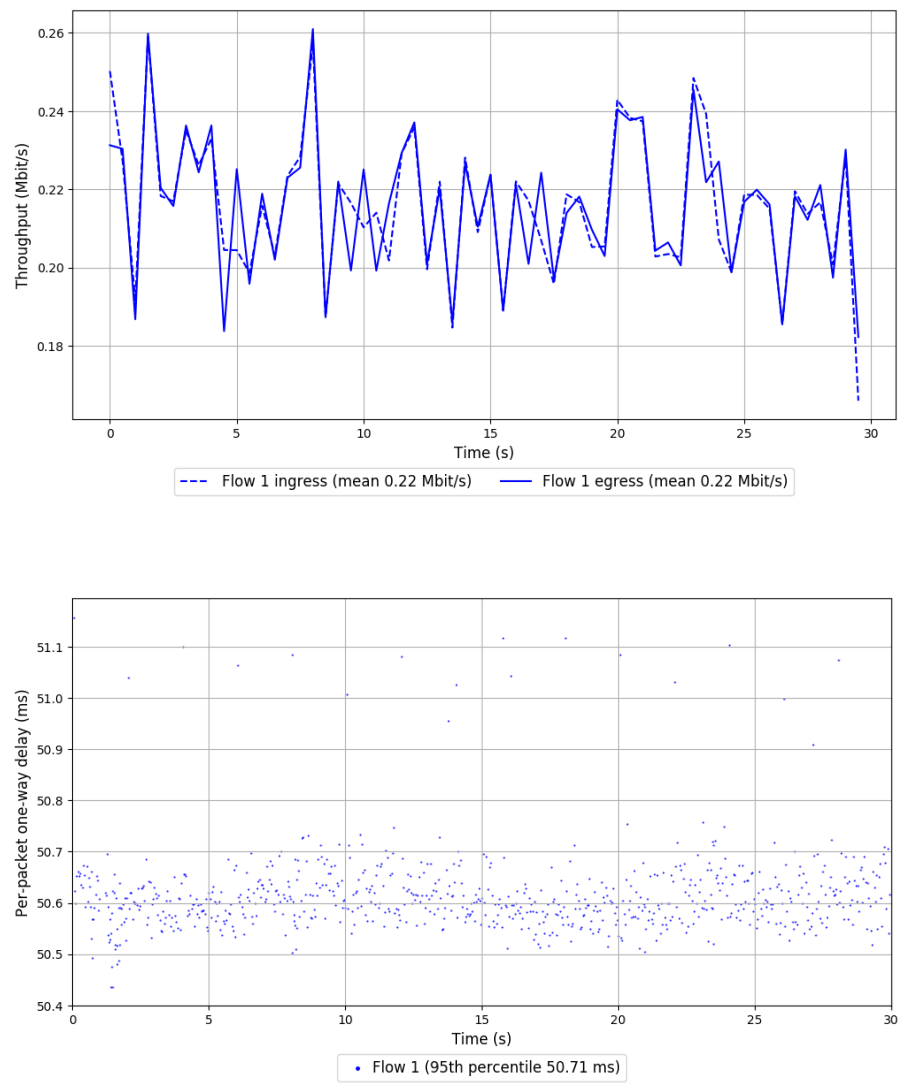
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.709 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-16 18:33:23

End at: 2018-01-16 18:33:53

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.389 ms

Loss rate: 0.00%

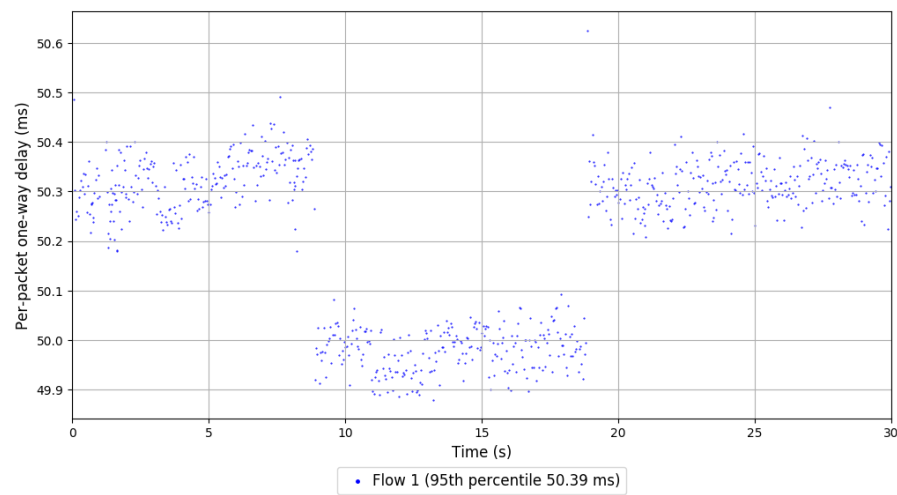
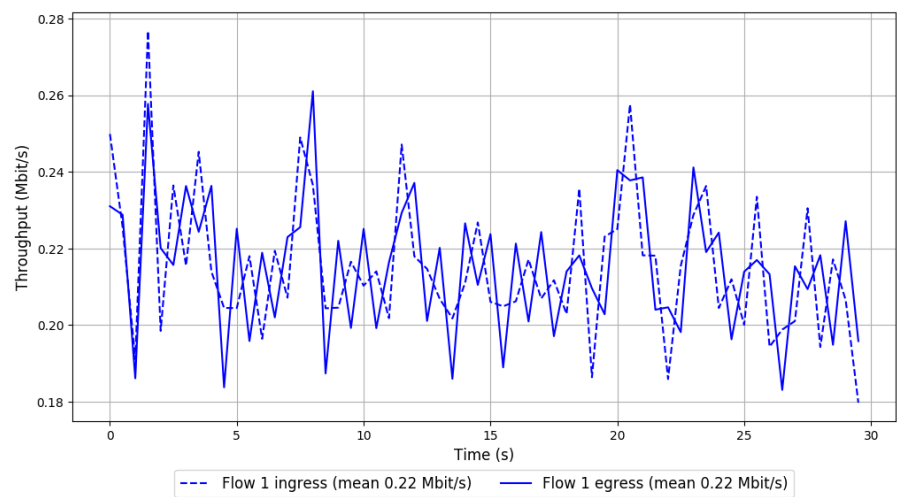
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.389 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-16 18:47:52

End at: 2018-01-16 18:48:22

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.403 ms

Loss rate: 0.00%

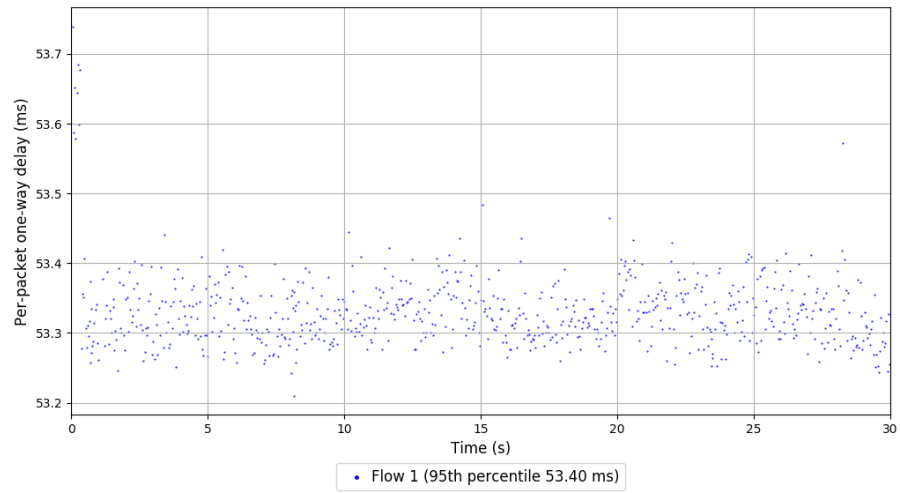
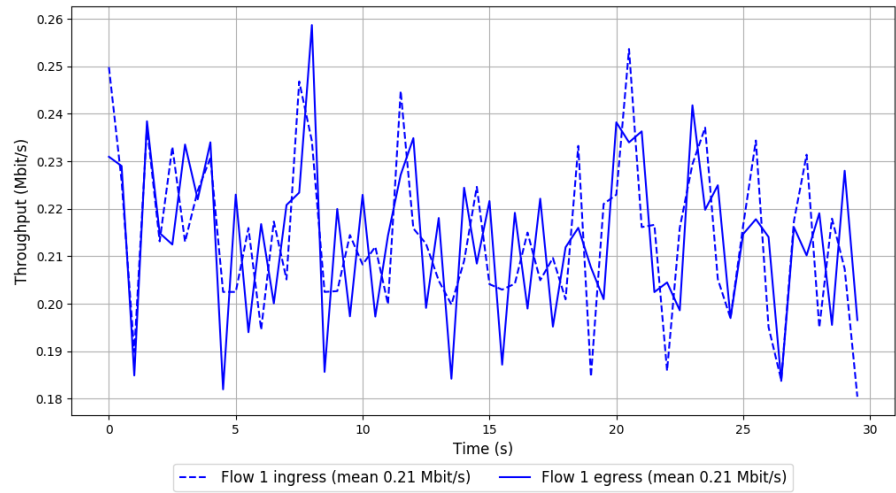
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.403 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

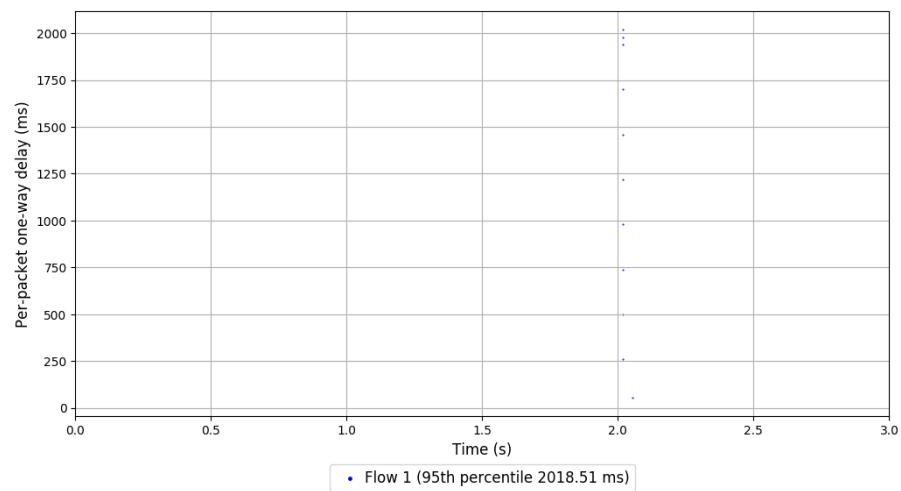
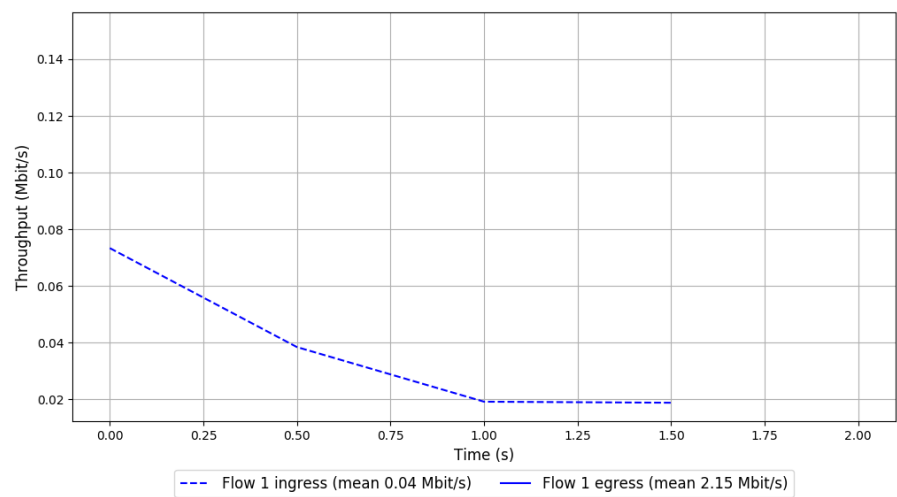


Run 10: Statistics of SReAM

Start at: 2018-01-16 19:01:43

End at: 2018-01-16 19:02:13

Run 10: Report of SCReAM — Data Link

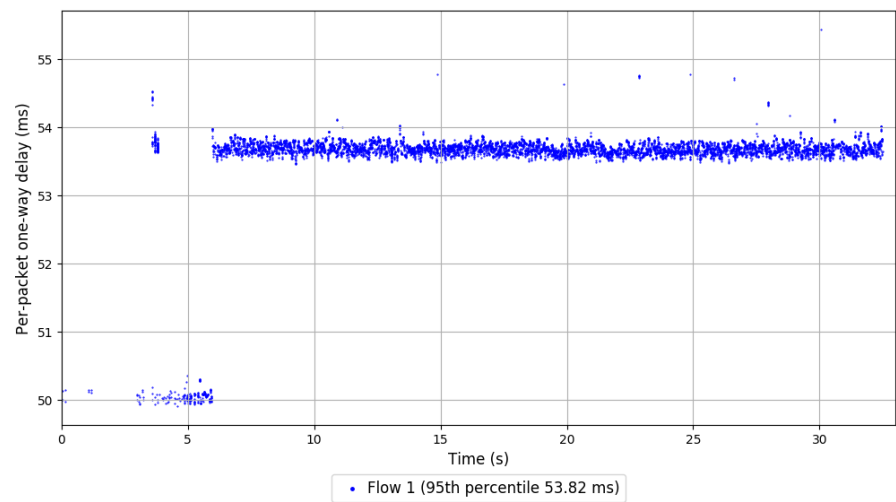
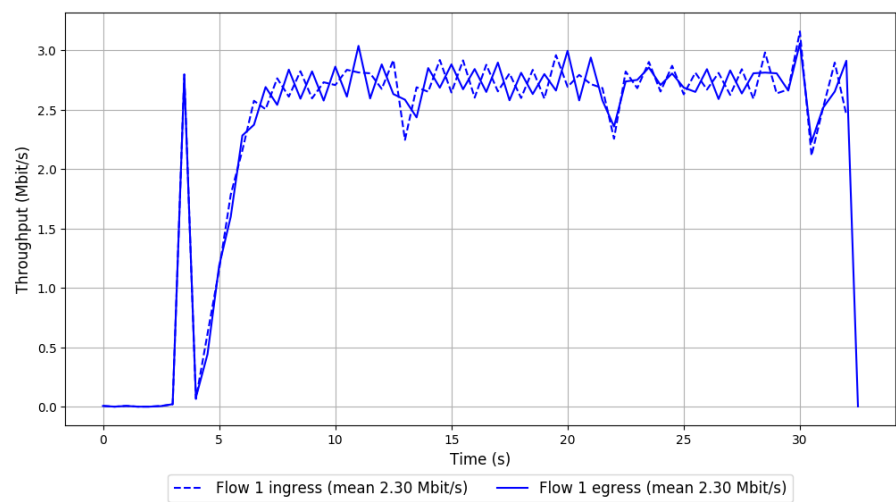


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 17:03:18
End at: 2018-01-16 17:03:48

# Below is generated by plot.py at 2018-01-16 21:03:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-16 17:17:08

End at: 2018-01-16 17:17:38

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.00%

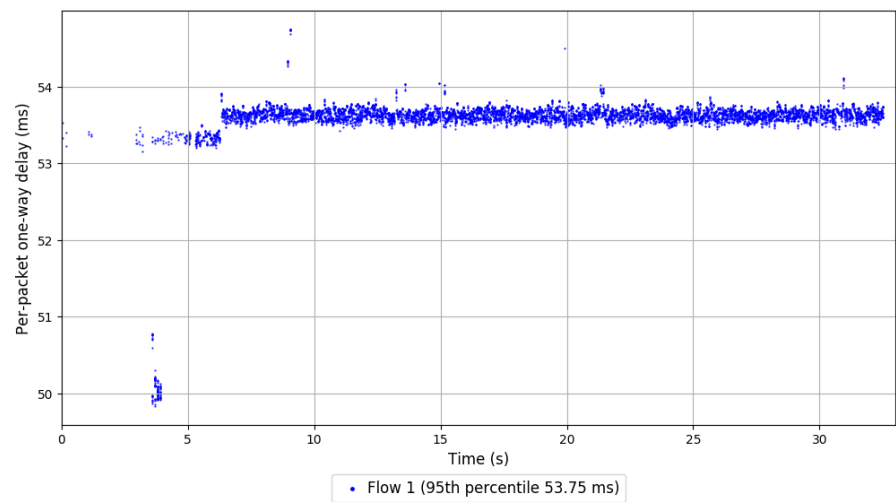
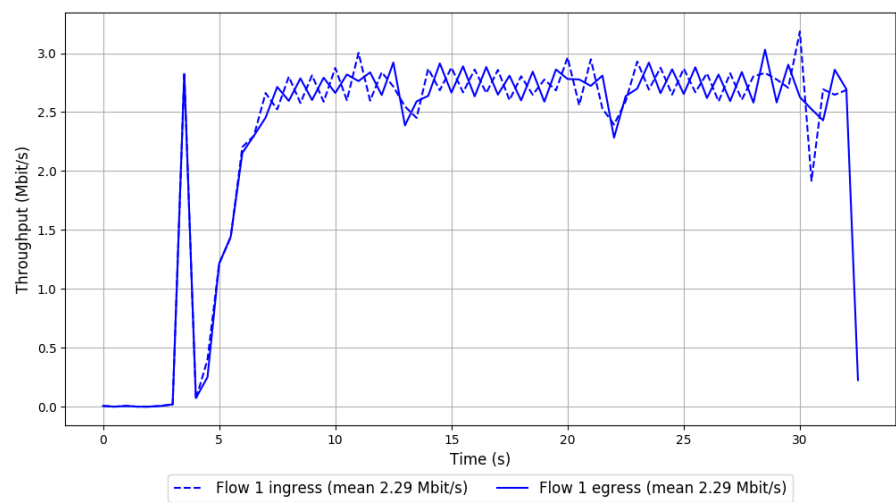
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.752 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 17:31:28

End at: 2018-01-16 17:31:58

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.171 ms

Loss rate: 0.00%

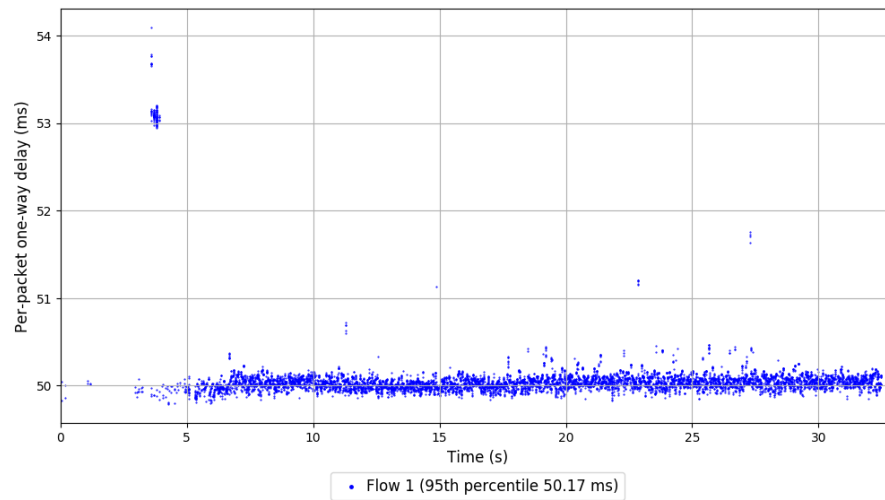
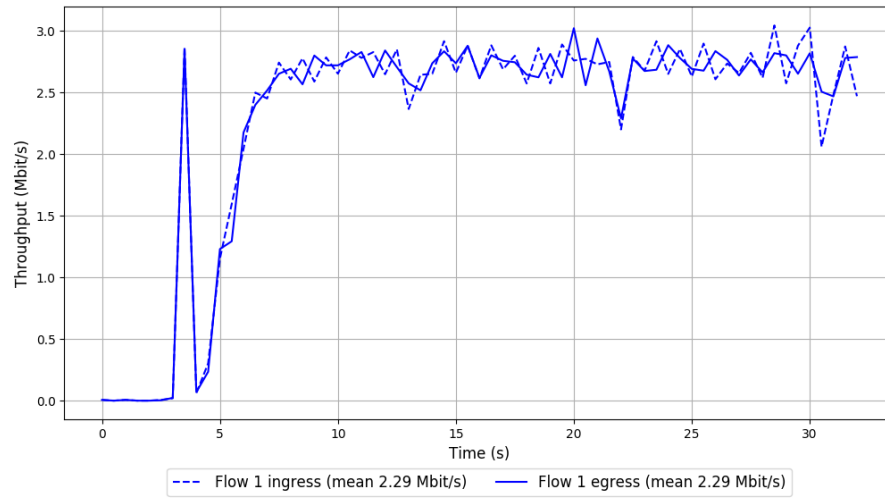
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.171 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-16 17:45:36

End at: 2018-01-16 17:46:06

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

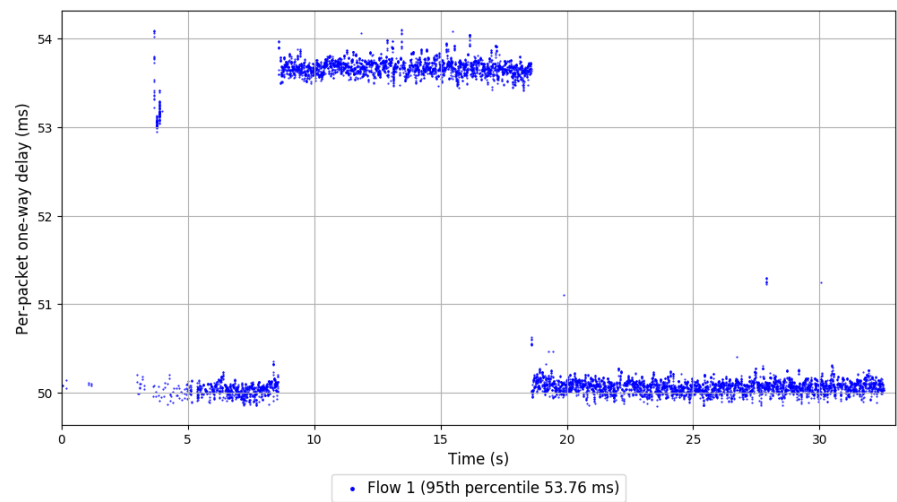
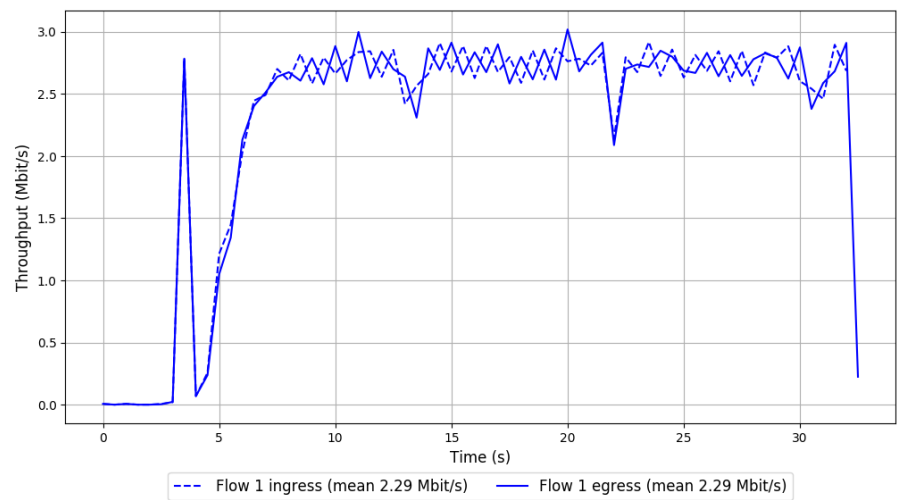
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-16 17:59:46

End at: 2018-01-16 18:00:16

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.487 ms

Loss rate: 0.00%

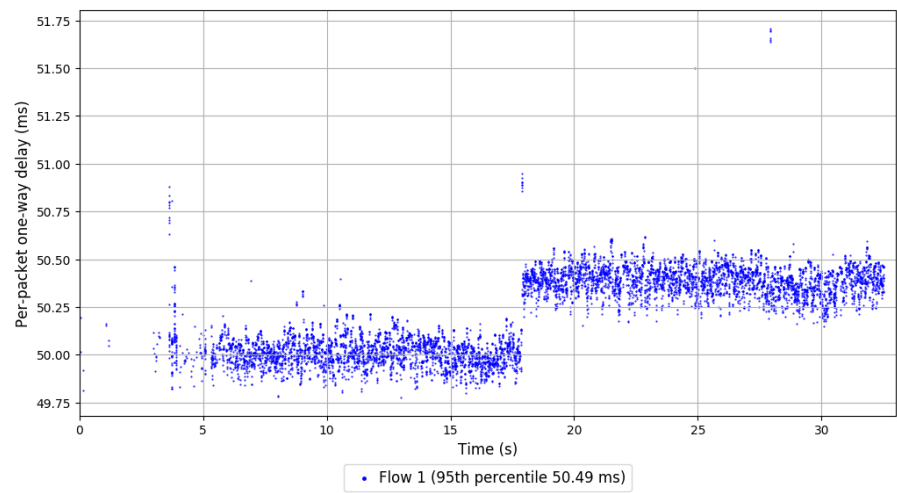
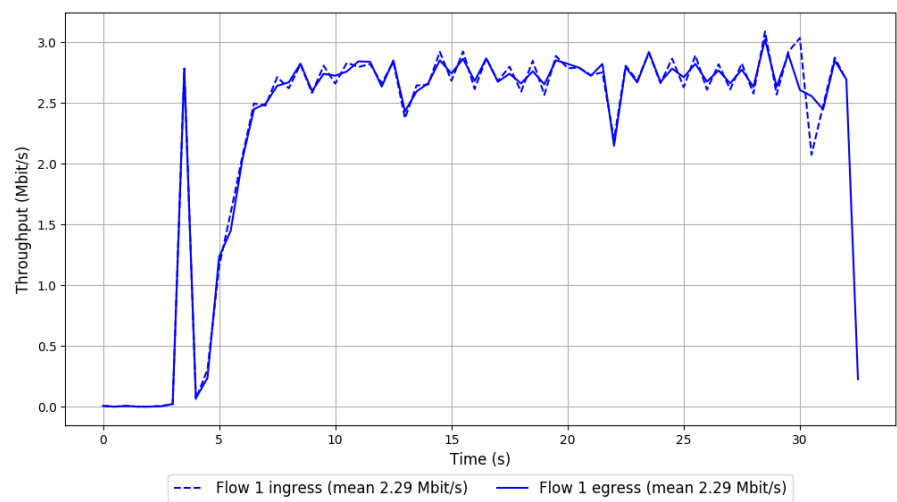
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.487 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-16 18:13:48

End at: 2018-01-16 18:14:18

Below is generated by plot.py at 2018-01-16 21:03:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 53.754 ms

Loss rate: 0.00%

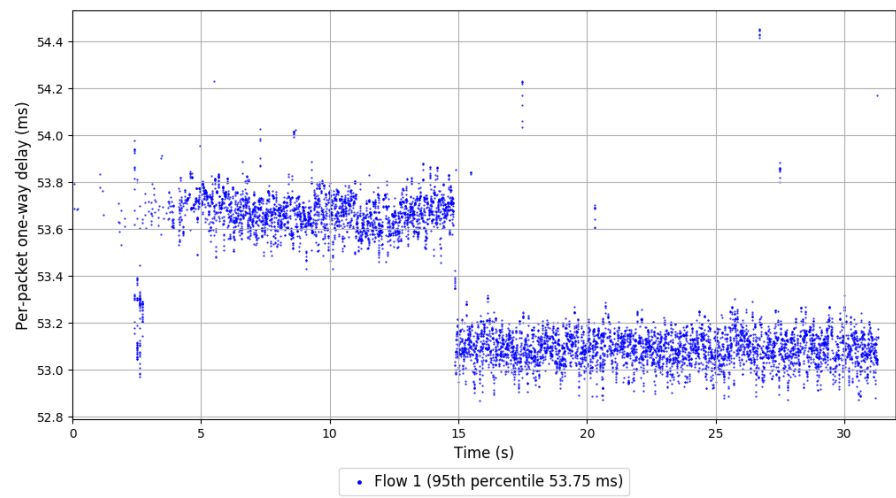
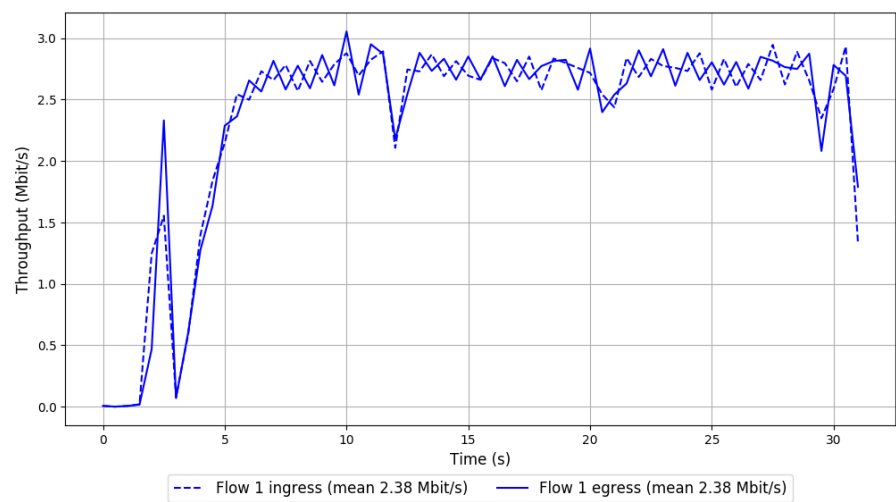
-- Flow 1:

Average throughput: 2.38 Mbit/s

95th percentile per-packet one-way delay: 53.754 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-16 18:27:47

End at: 2018-01-16 18:28:17

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.479 ms

Loss rate: 0.00%

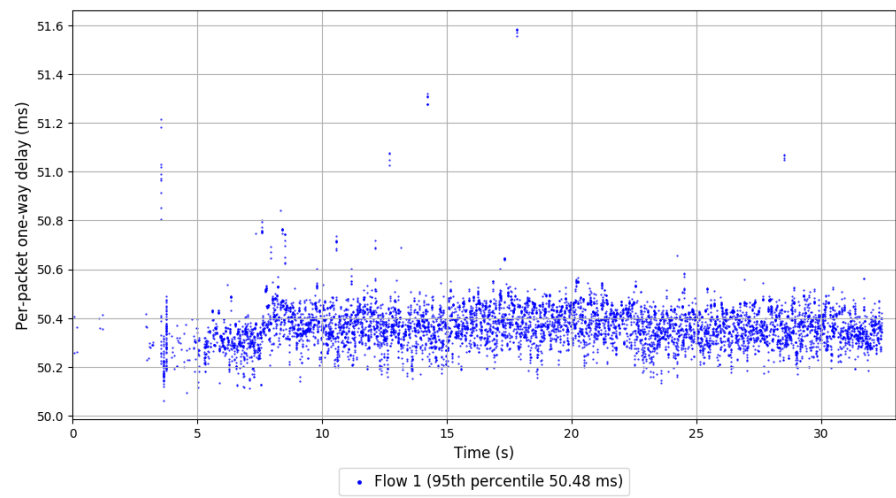
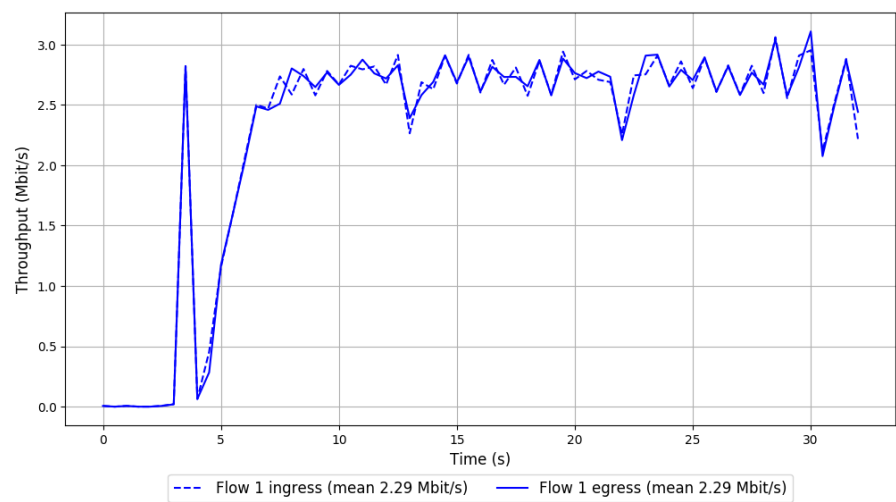
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.479 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-16 18:42:13

End at: 2018-01-16 18:42:43

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.00%

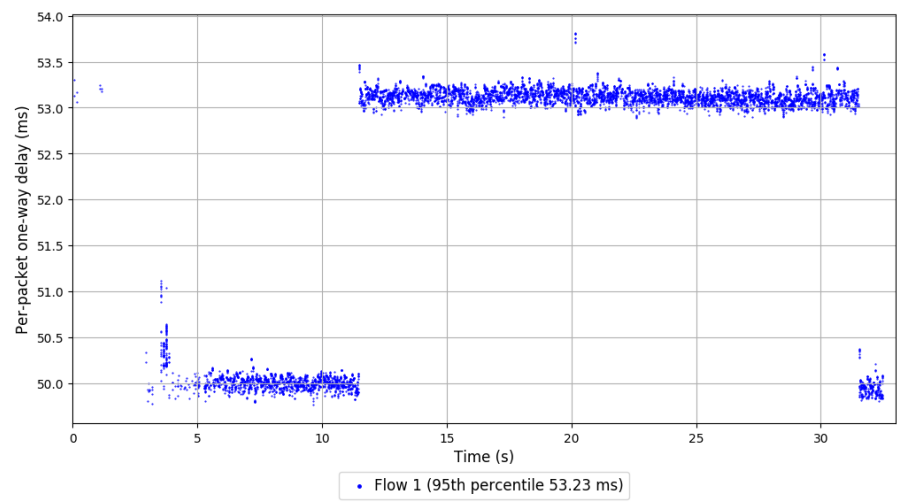
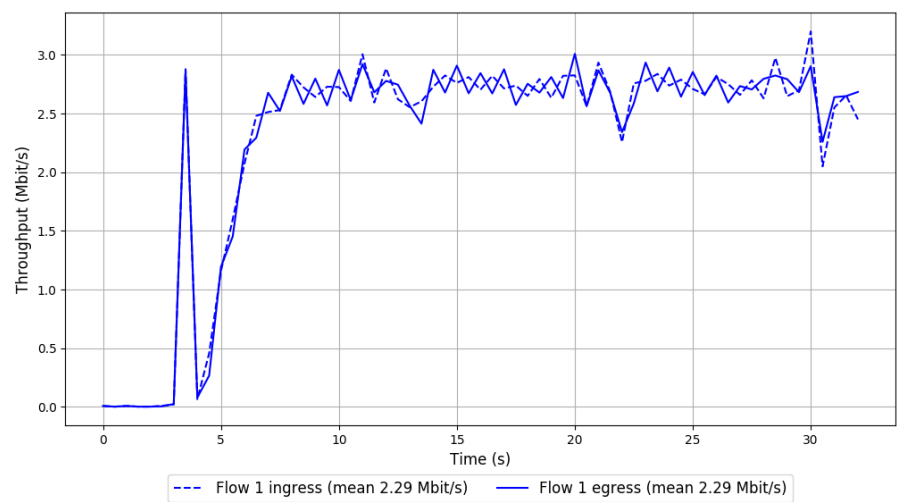
-- Flow 1:

Average throughput: 2.29 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-16 18:56:17

End at: 2018-01-16 18:56:47

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.00%

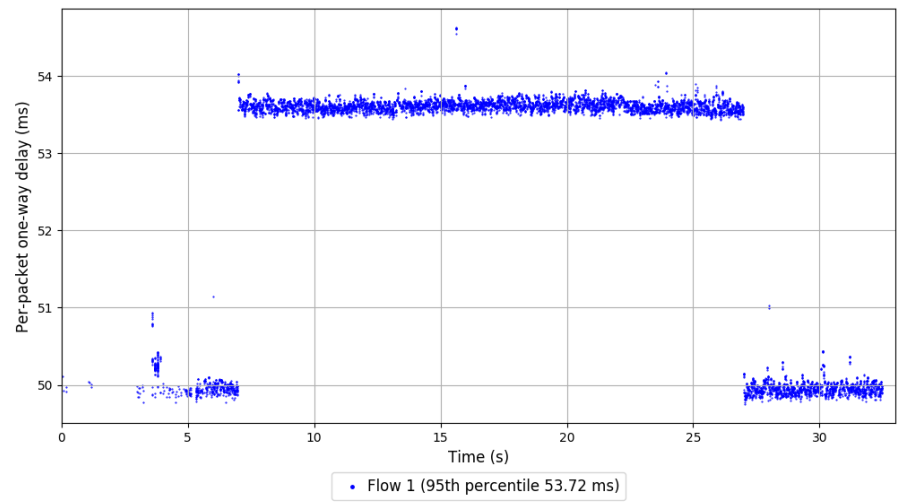
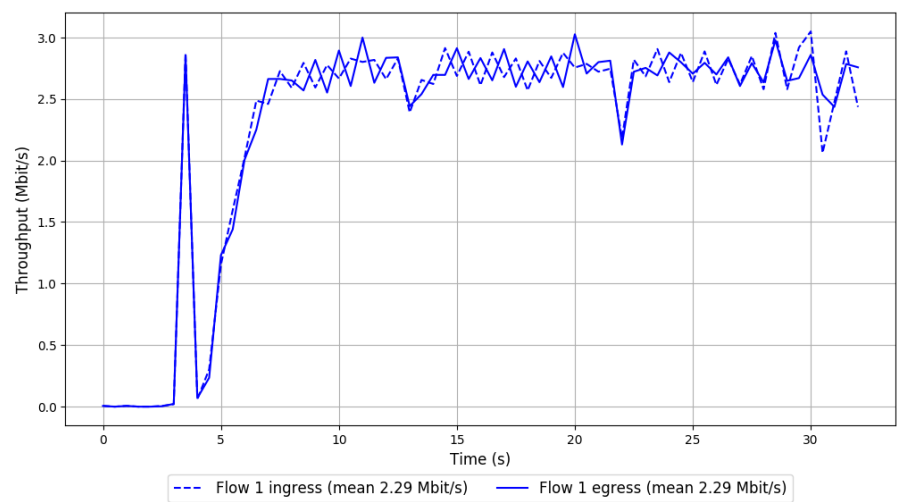
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-16 19:10:30

End at: 2018-01-16 19:11:00

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.696 ms

Loss rate: 0.00%

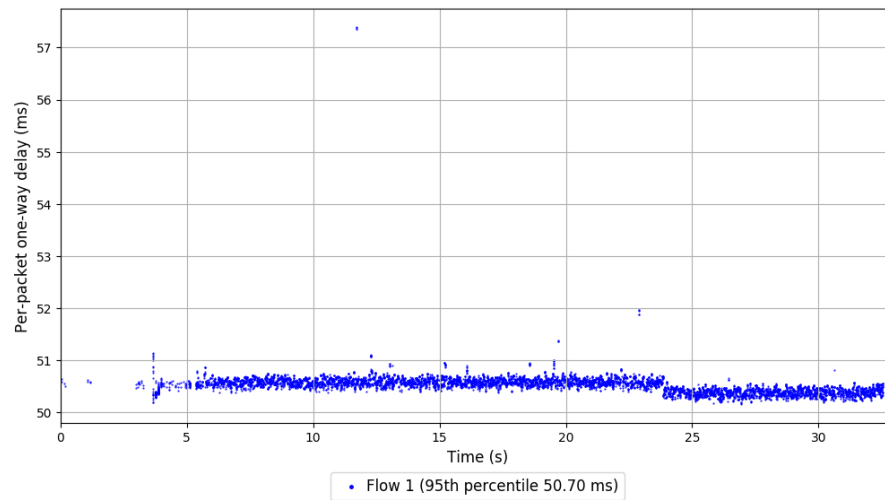
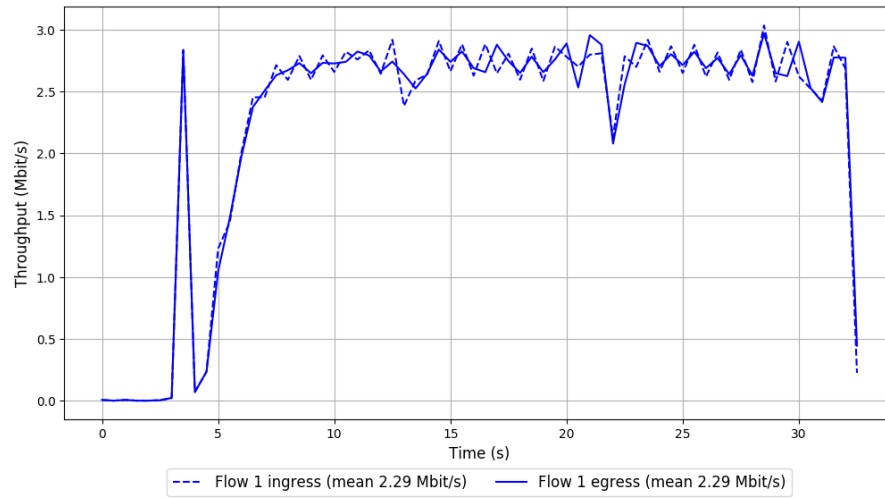
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.696 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-16 16:57:55

End at: 2018-01-16 16:58:25

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.272 ms

Loss rate: 0.01%

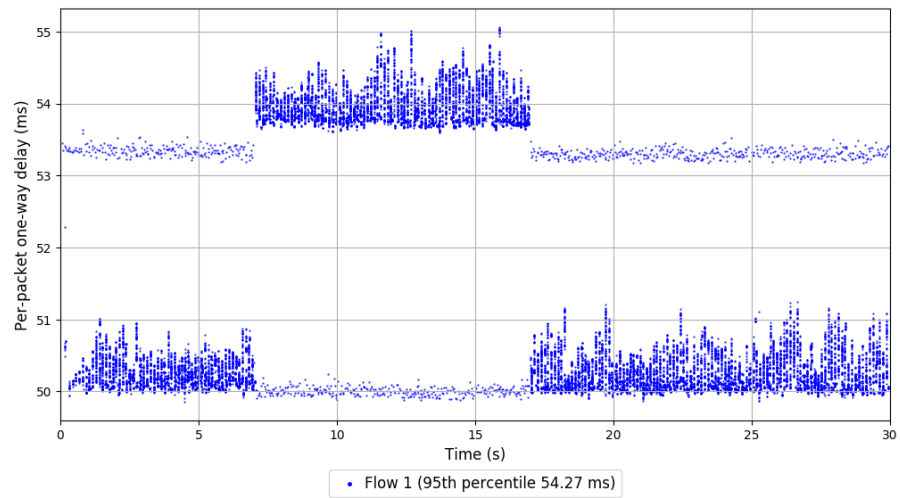
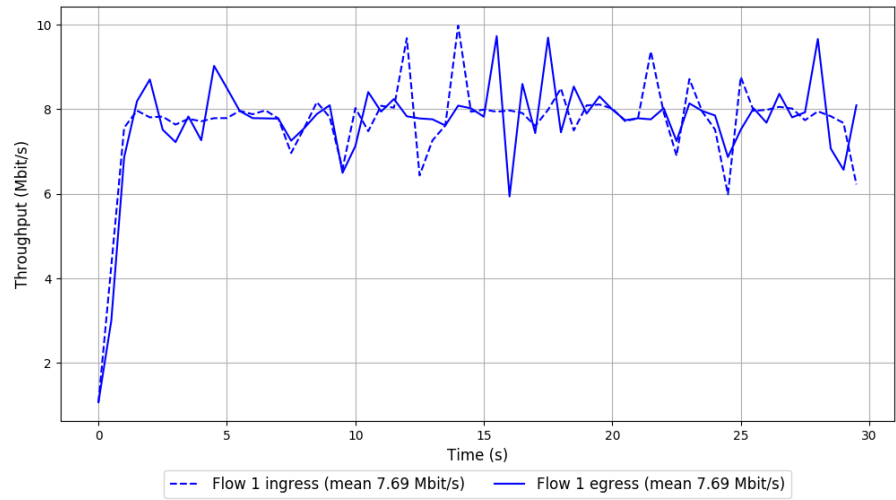
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.272 ms

Loss rate: 0.01%

Run 1: Report of Sprout — Data Link

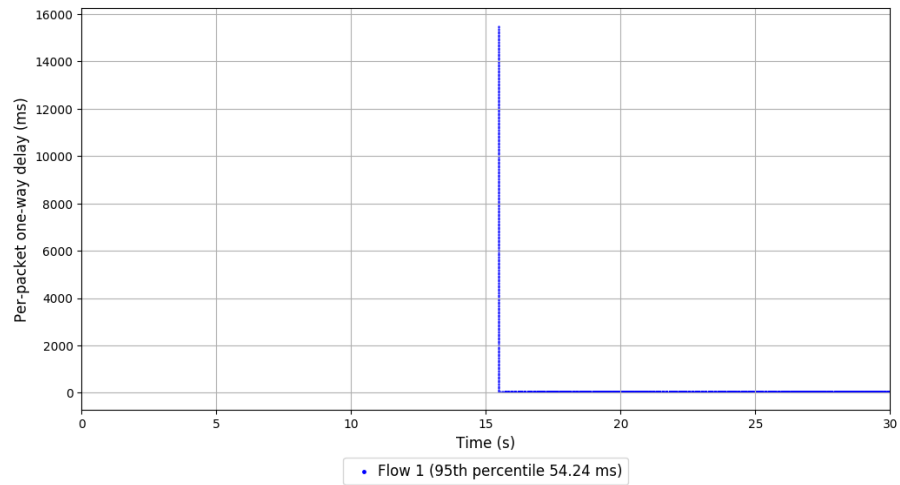
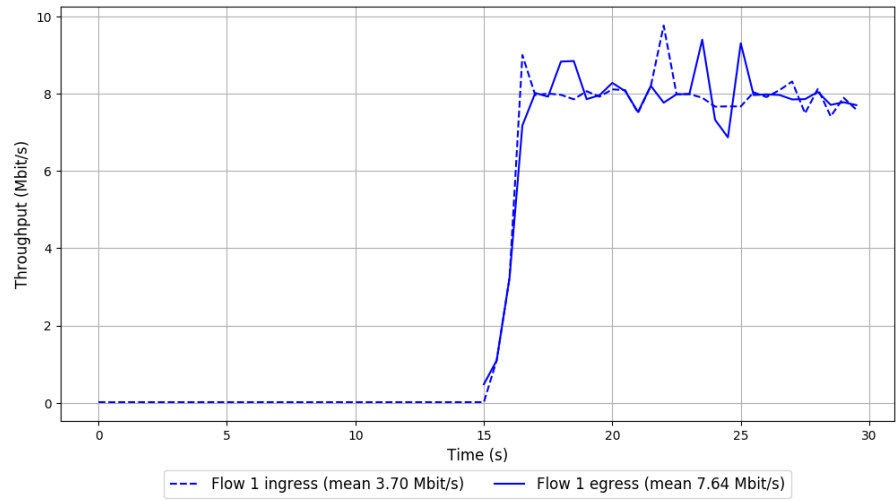


Run 2: Statistics of Sprout

Start at: 2018-01-16 17:11:45

End at: 2018-01-16 17:12:15

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-16 17:25:47

End at: 2018-01-16 17:26:17

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.03%

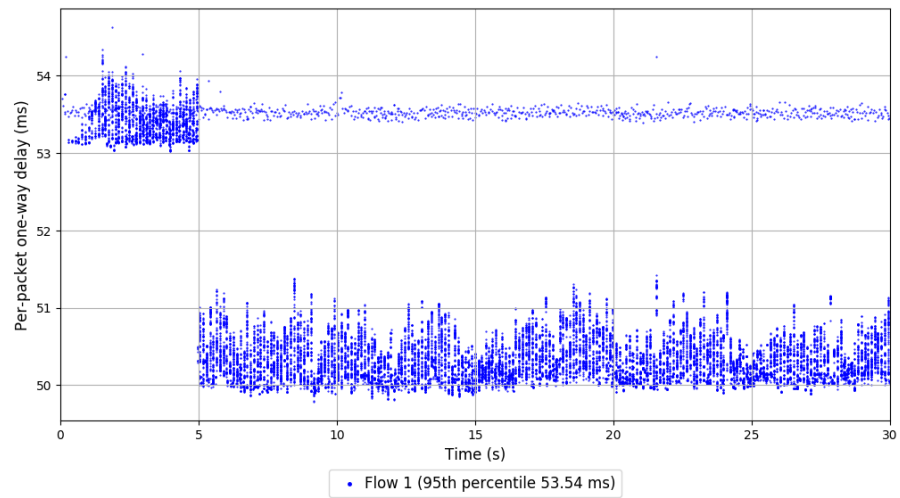
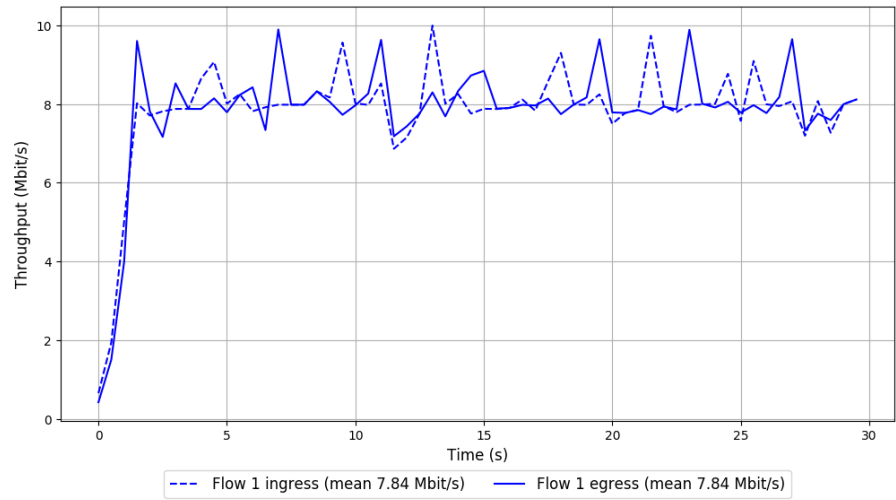
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.03%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-16 17:40:05

End at: 2018-01-16 17:40:35

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 53.928 ms

Loss rate: 0.01%

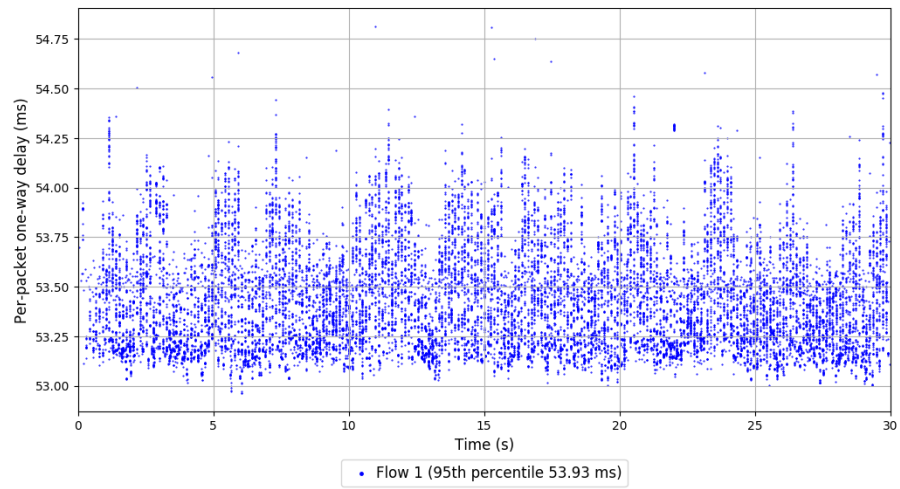
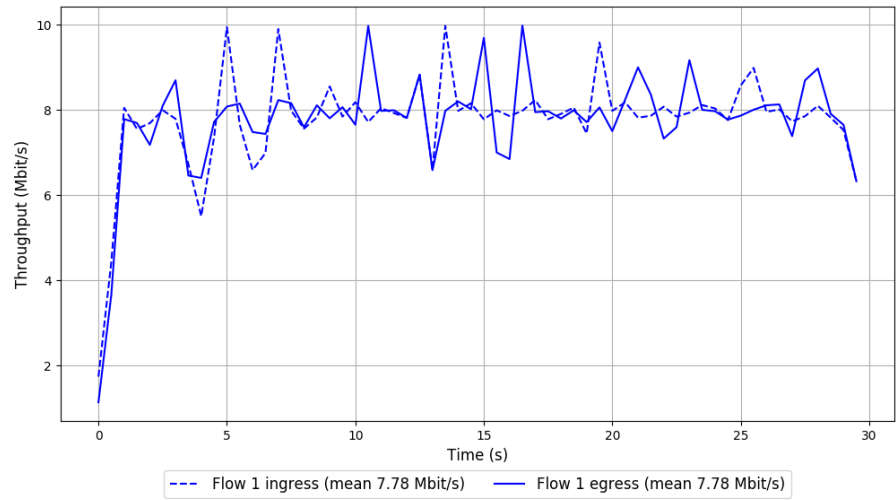
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 53.928 ms

Loss rate: 0.01%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-16 17:54:15

End at: 2018-01-16 17:54:45

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 53.877 ms

Loss rate: 0.01%

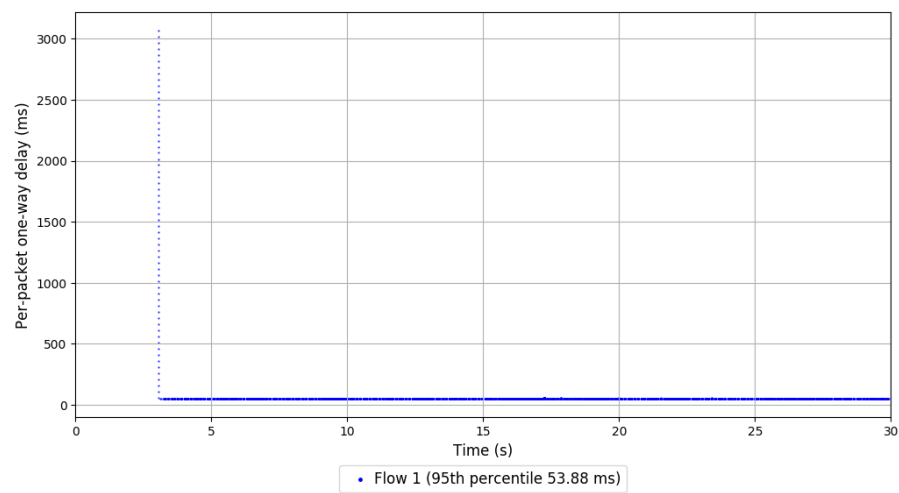
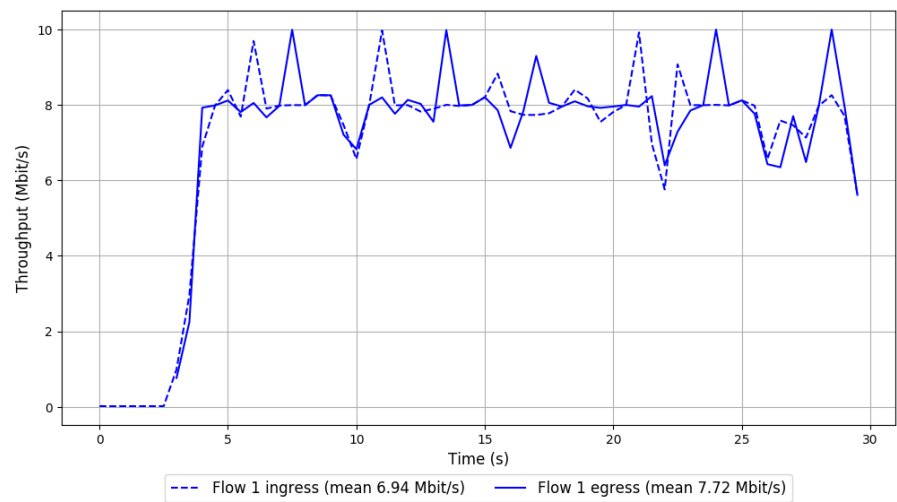
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 53.877 ms

Loss rate: 0.01%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 18:08:37

End at: 2018-01-16 18:09:07

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.45%

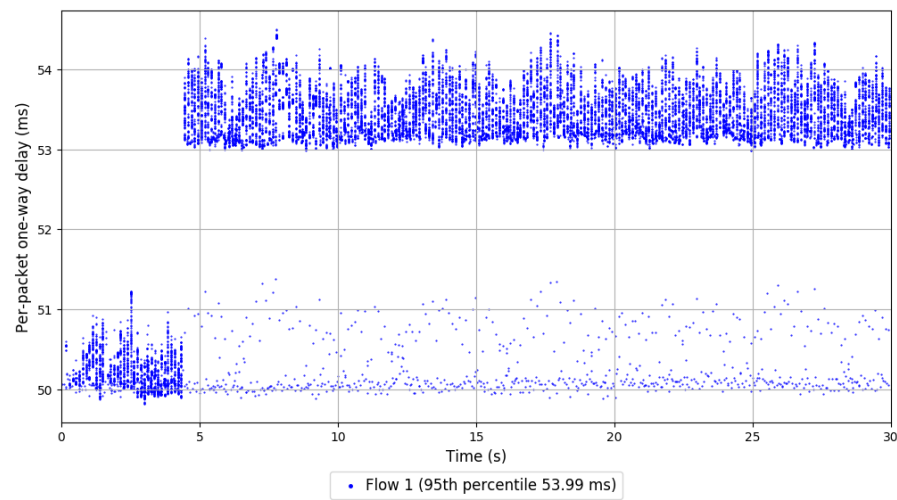
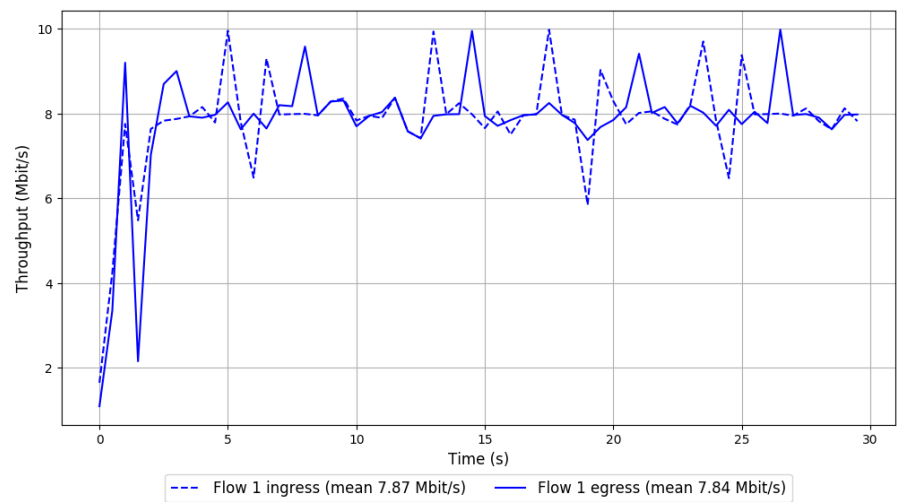
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.45%

Run 6: Report of Sprout — Data Link

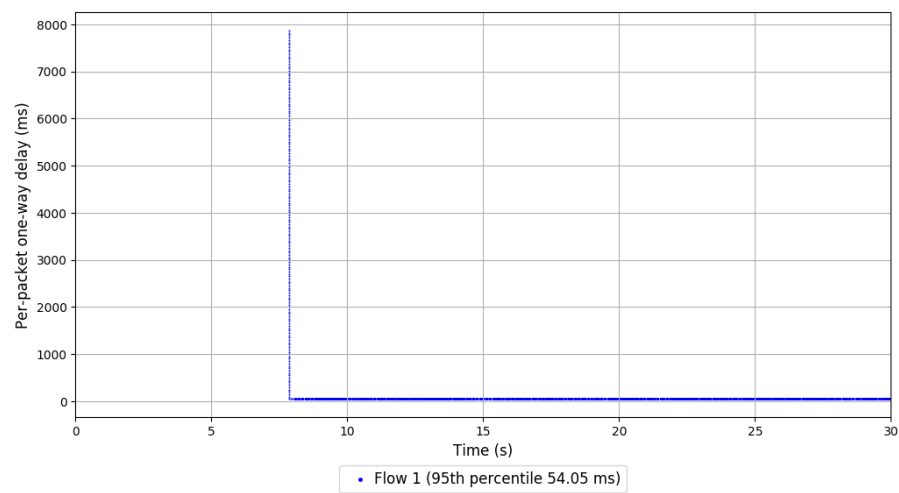
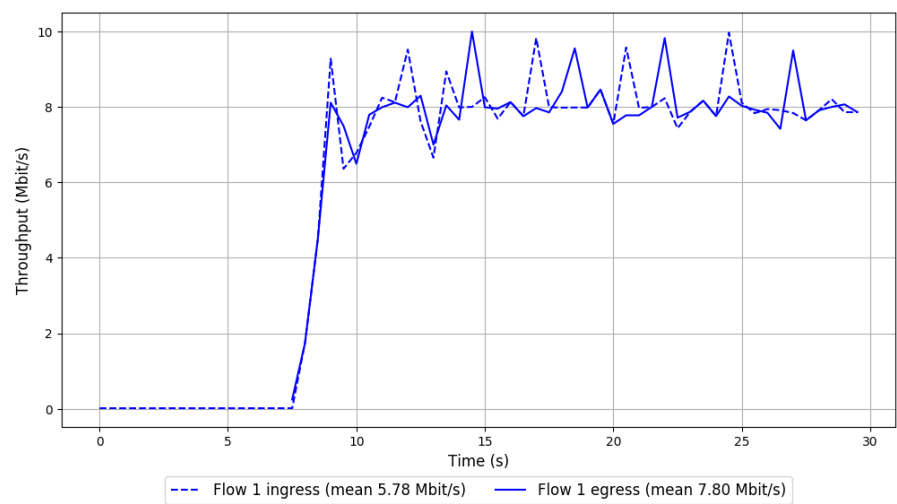


Run 7: Statistics of Sprout

Start at: 2018-01-16 18:22:20

End at: 2018-01-16 18:22:50

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-16 18:36:38

End at: 2018-01-16 18:37:08

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 54.483 ms

Loss rate: 0.02%

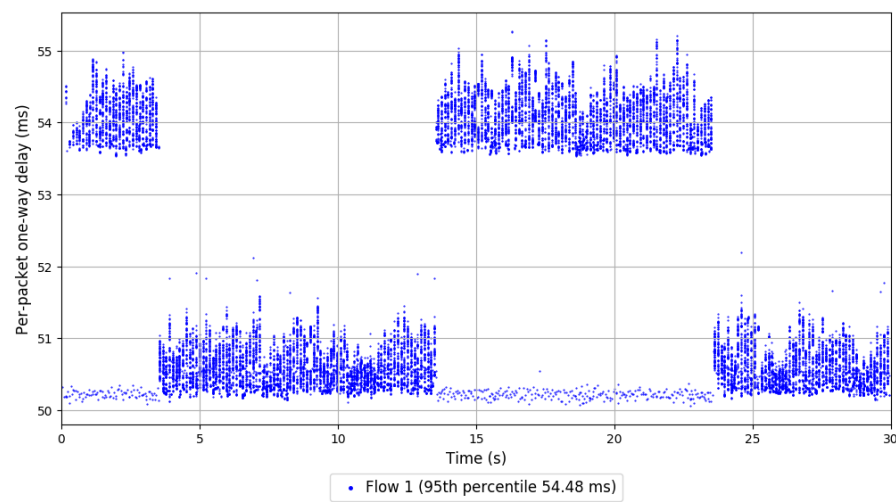
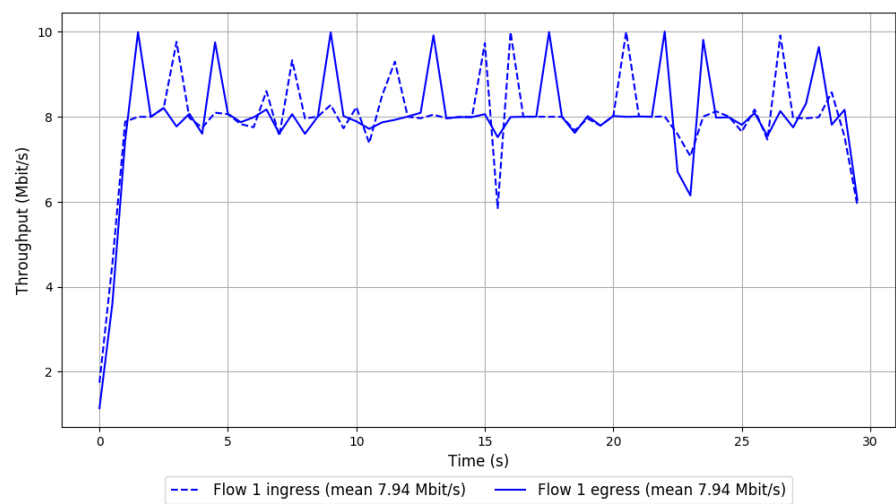
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 54.483 ms

Loss rate: 0.02%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-16 18:51:10

End at: 2018-01-16 18:51:40

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.471 ms

Loss rate: 0.01%

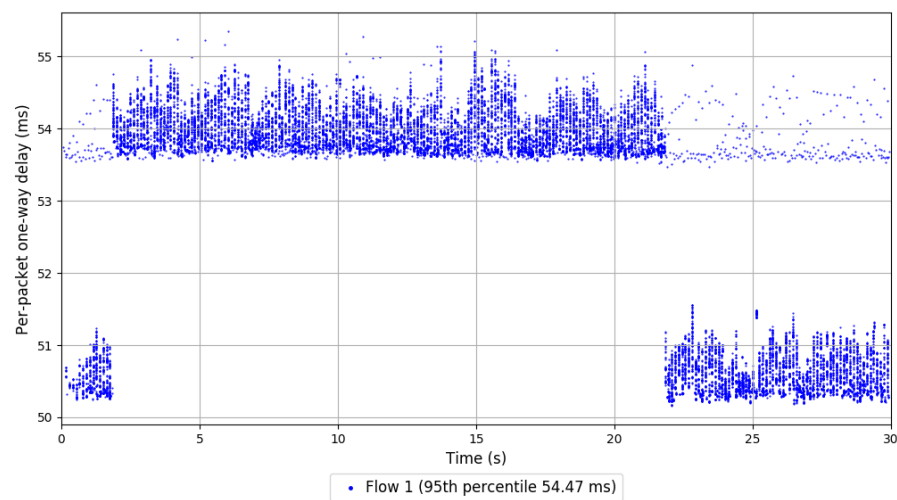
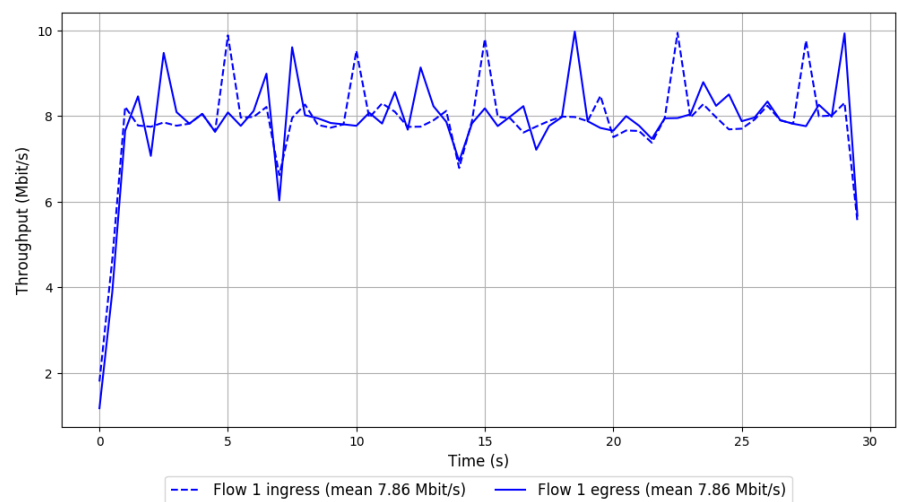
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.471 ms

Loss rate: 0.01%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-16 19:04:57

End at: 2018-01-16 19:05:27

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.582 ms

Loss rate: 1.39%

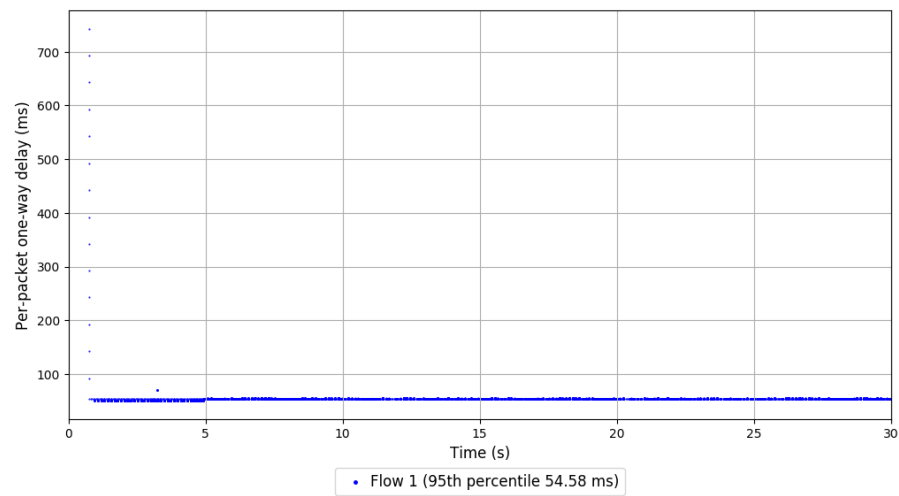
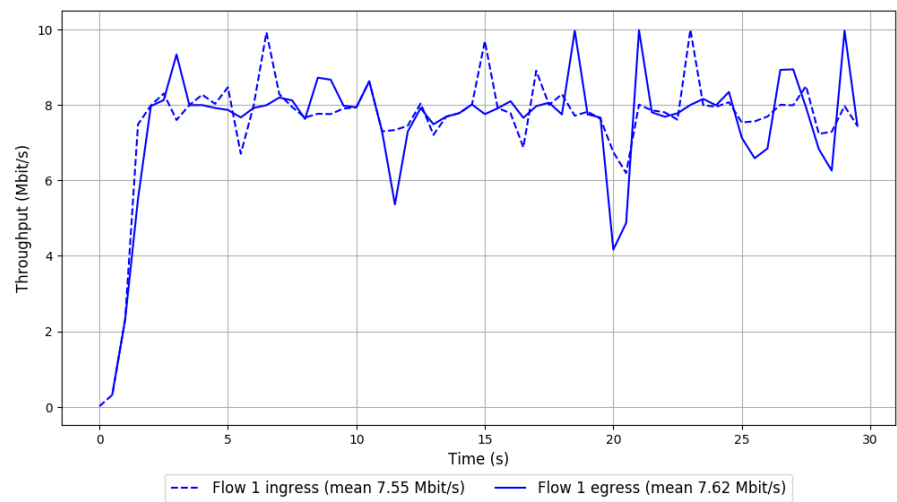
-- Flow 1:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.582 ms

Loss rate: 1.39%

Run 10: Report of Sprout — Data Link

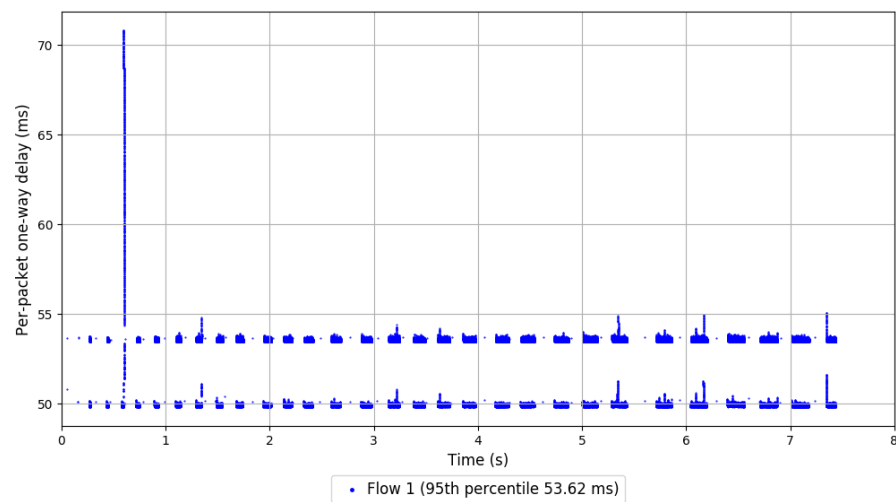
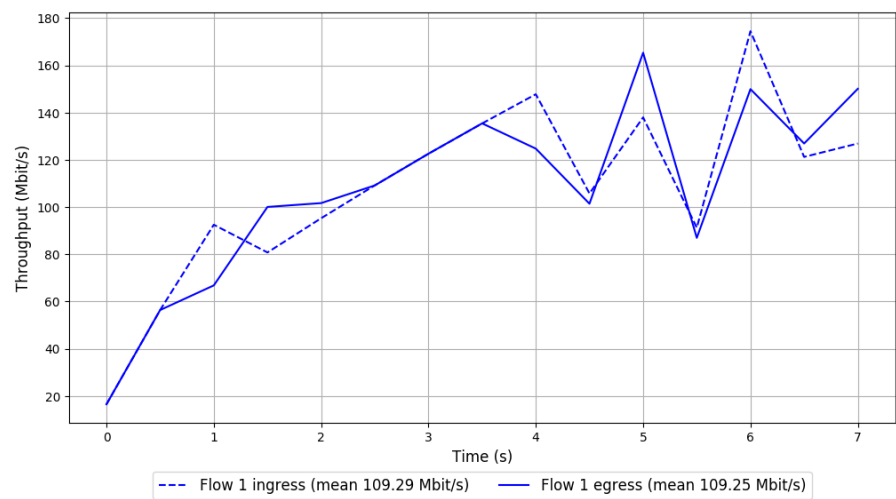


Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 16:56:25

End at: 2018-01-16 16:56:55

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

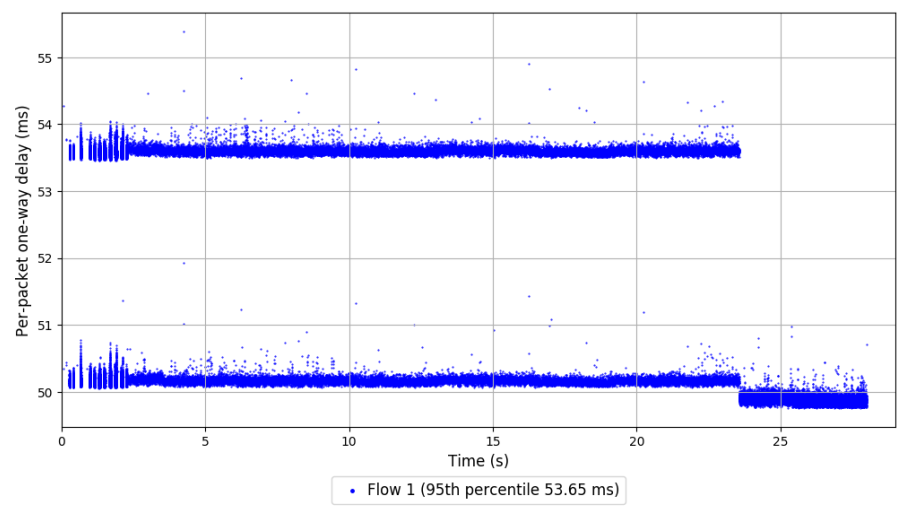
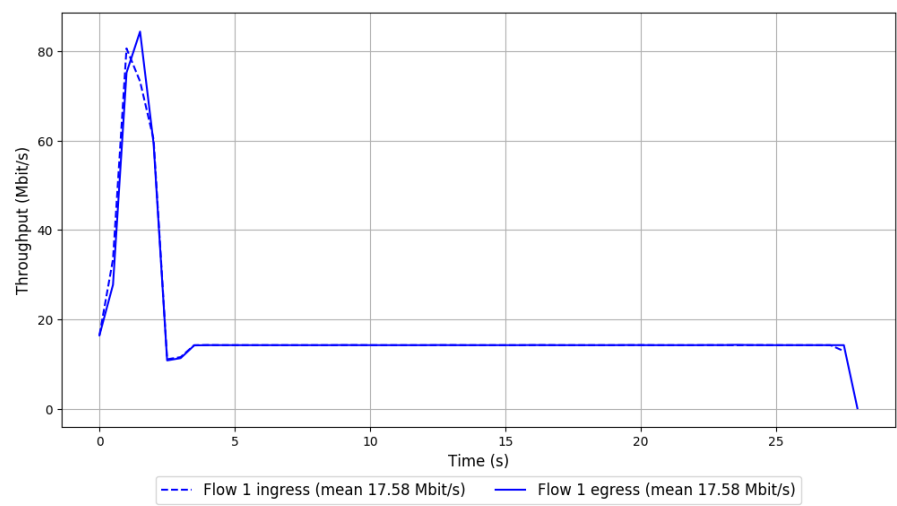


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 17:10:16
End at: 2018-01-16 17:10:46

# Below is generated by plot.py at 2018-01-16 21:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 53.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 53.651 ms
Loss rate: 0.00%
```

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

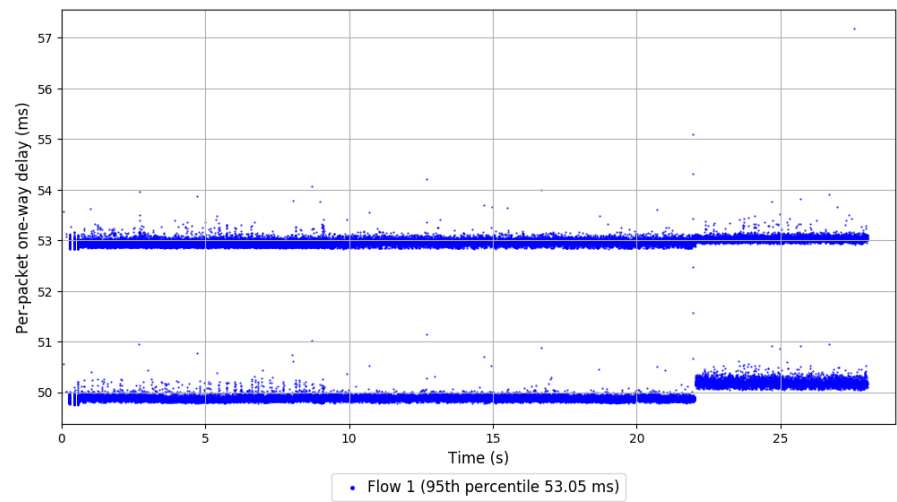
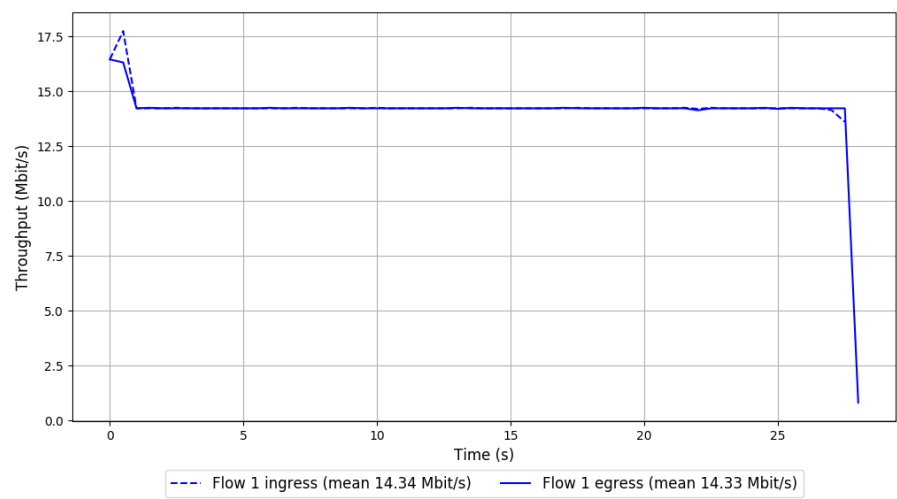


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 17:24:18
End at: 2018-01-16 17:24:48

# Below is generated by plot.py at 2018-01-16 21:03:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 53.050 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 53.050 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 17:38:31

End at: 2018-01-16 17:39:01

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.06 Mbit/s

95th percentile per-packet one-way delay: 52.970 ms

Loss rate: 0.00%

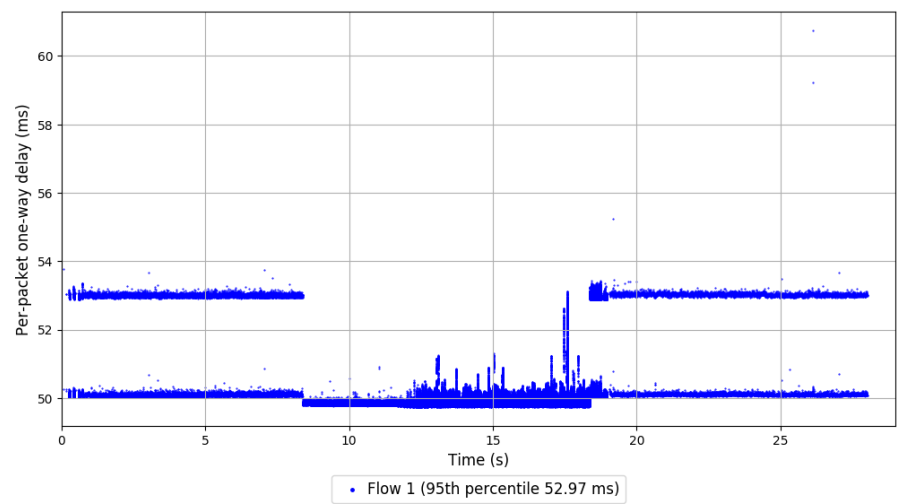
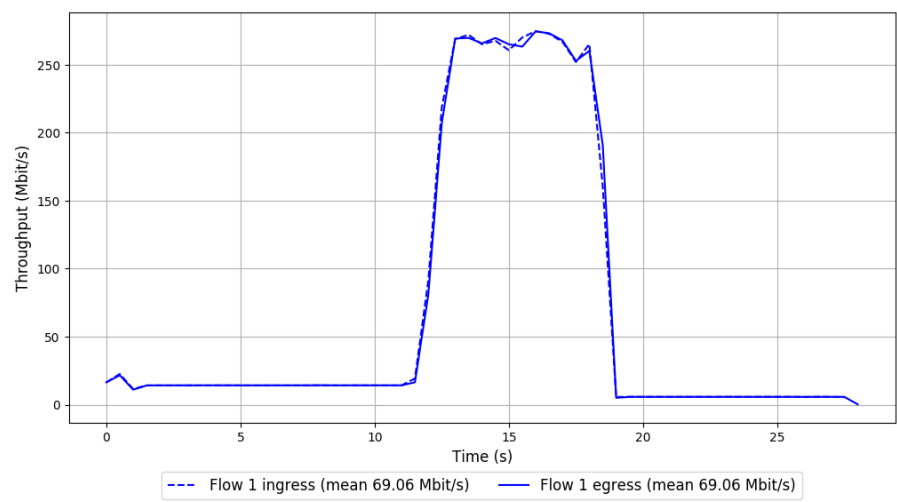
-- Flow 1:

Average throughput: 69.06 Mbit/s

95th percentile per-packet one-way delay: 52.970 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 17:52:37

End at: 2018-01-16 17:53:07

Below is generated by plot.py at 2018-01-16 21:03:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.71 Mbit/s

95th percentile per-packet one-way delay: 52.914 ms

Loss rate: 0.04%

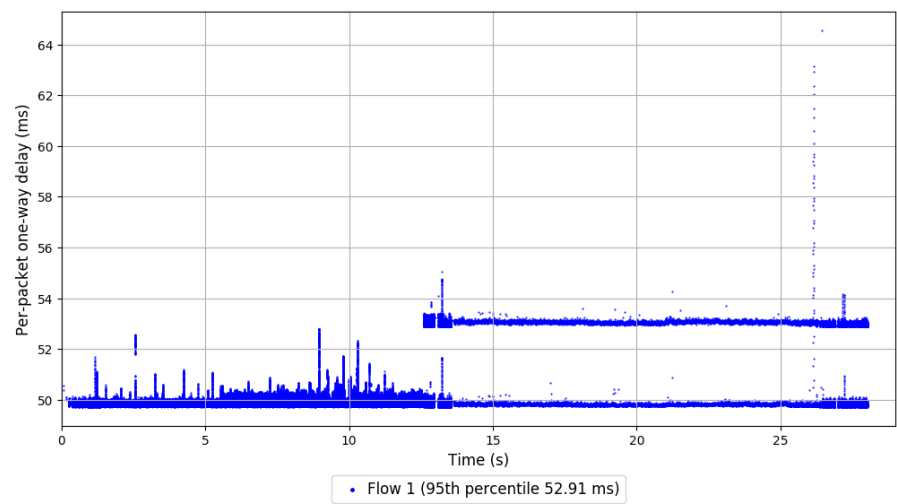
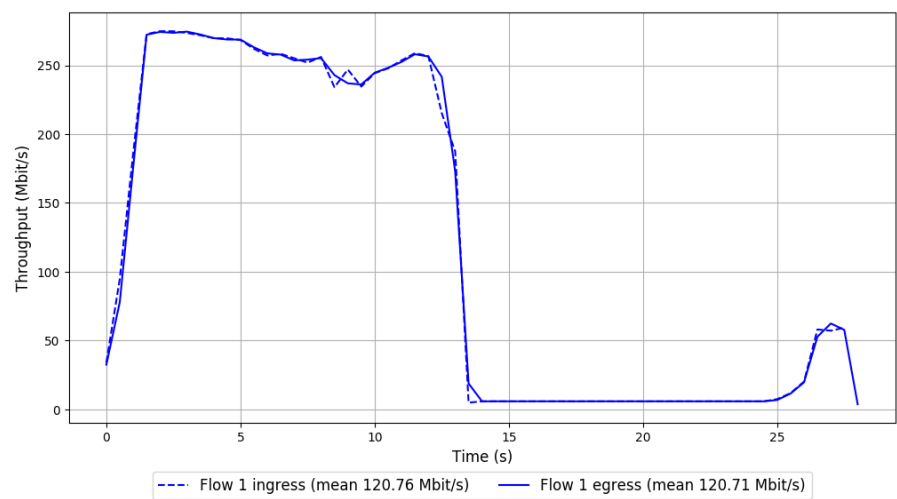
-- Flow 1:

Average throughput: 120.71 Mbit/s

95th percentile per-packet one-way delay: 52.914 ms

Loss rate: 0.04%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 18:06:48

End at: 2018-01-16 18:07:18

Below is generated by plot.py at 2018-01-16 21:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.93 Mbit/s

95th percentile per-packet one-way delay: 53.243 ms

Loss rate: 0.00%

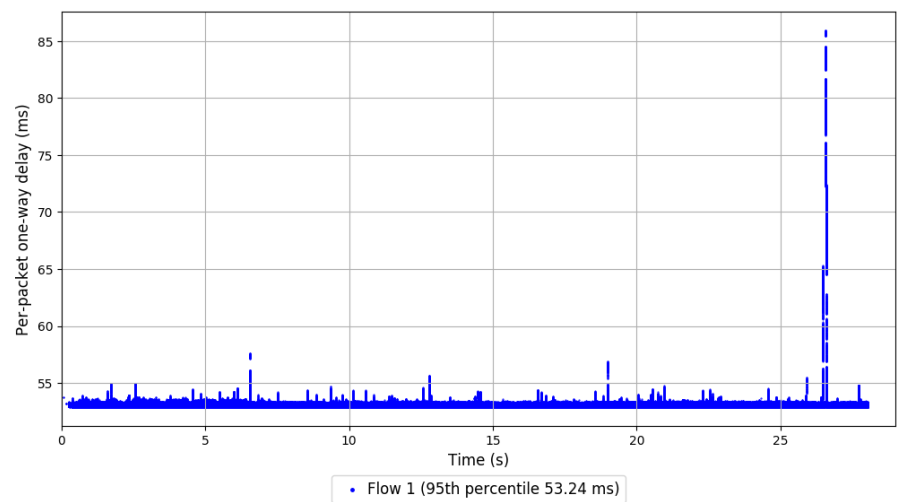
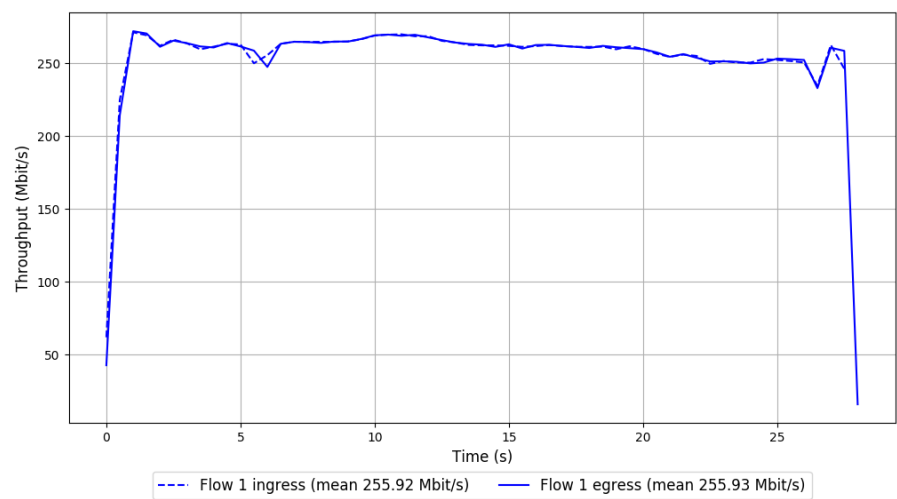
-- Flow 1:

Average throughput: 255.93 Mbit/s

95th percentile per-packet one-way delay: 53.243 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 18:20:52

End at: 2018-01-16 18:21:22

Below is generated by plot.py at 2018-01-16 21:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.83 Mbit/s

95th percentile per-packet one-way delay: 53.569 ms

Loss rate: 0.00%

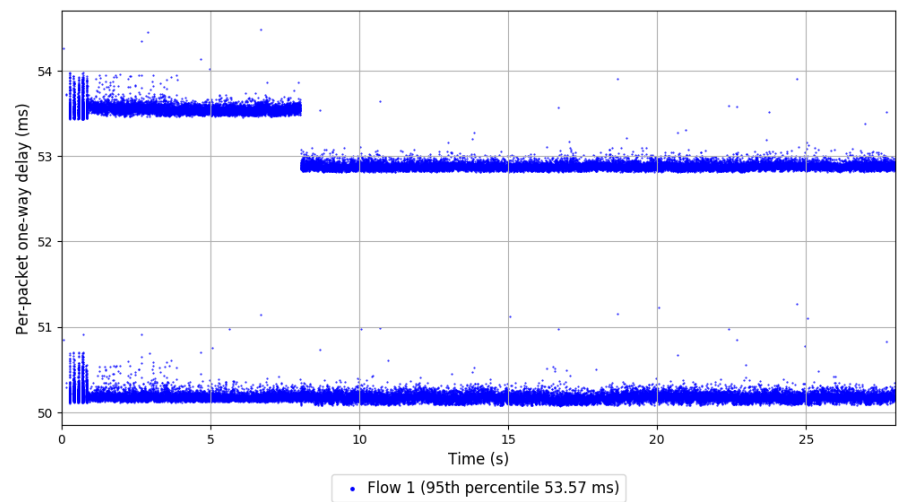
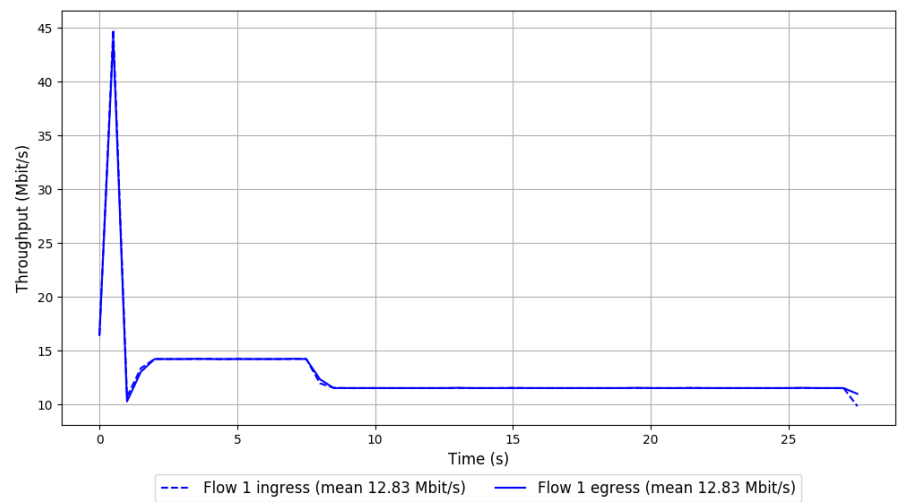
-- Flow 1:

Average throughput: 12.83 Mbit/s

95th percentile per-packet one-way delay: 53.569 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-16 18:34:50

End at: 2018-01-16 18:35:20

Below is generated by plot.py at 2018-01-16 21:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.24 Mbit/s

95th percentile per-packet one-way delay: 50.226 ms

Loss rate: 0.00%

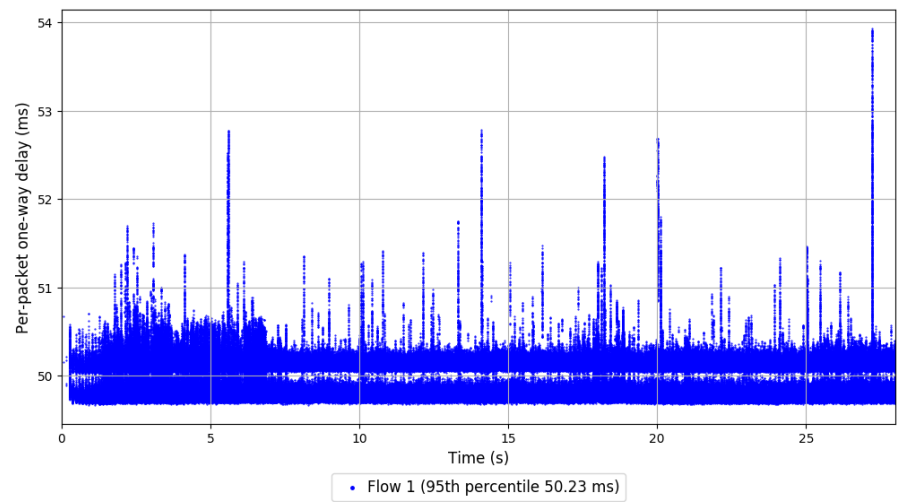
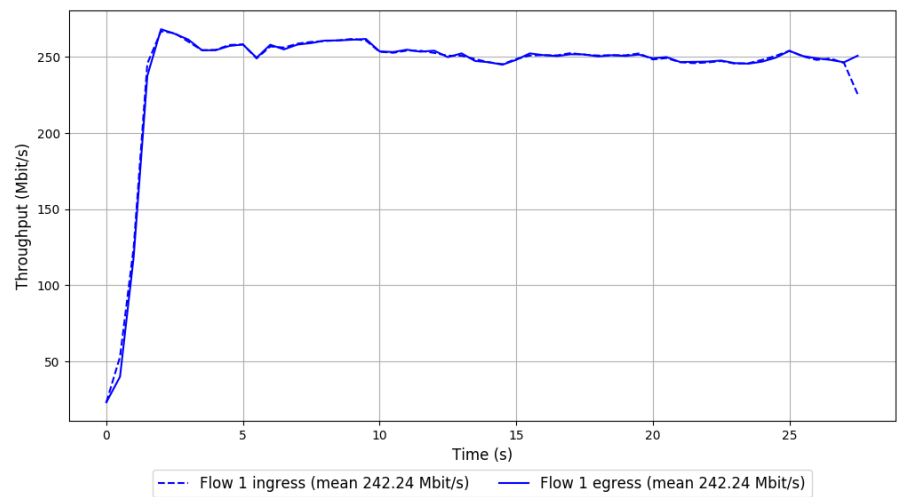
-- Flow 1:

Average throughput: 242.24 Mbit/s

95th percentile per-packet one-way delay: 50.226 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 18:49:19

End at: 2018-01-16 18:49:49

Below is generated by plot.py at 2018-01-16 21:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.92 Mbit/s

95th percentile per-packet one-way delay: 53.634 ms

Loss rate: 0.00%

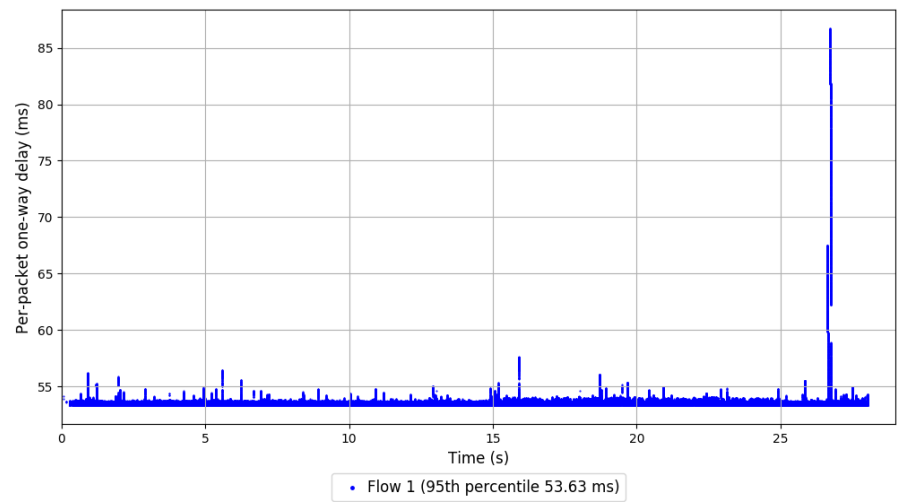
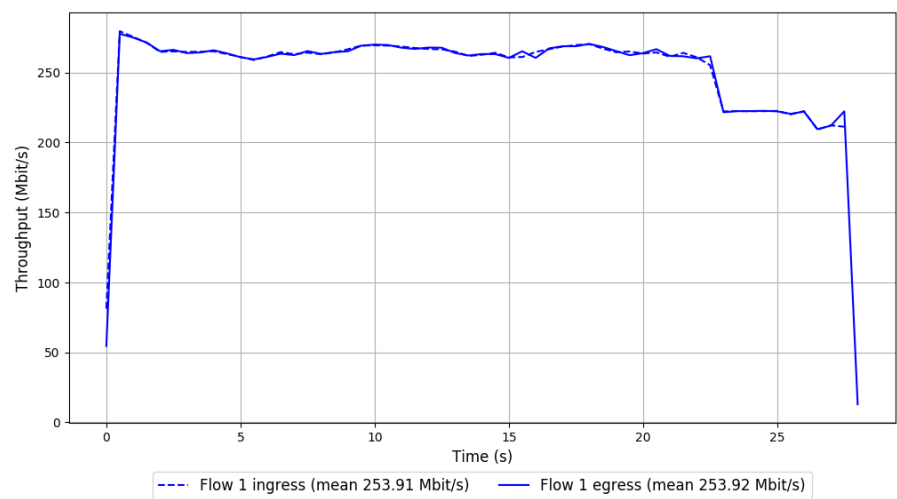
-- Flow 1:

Average throughput: 253.92 Mbit/s

95th percentile per-packet one-way delay: 53.634 ms

Loss rate: 0.00%

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

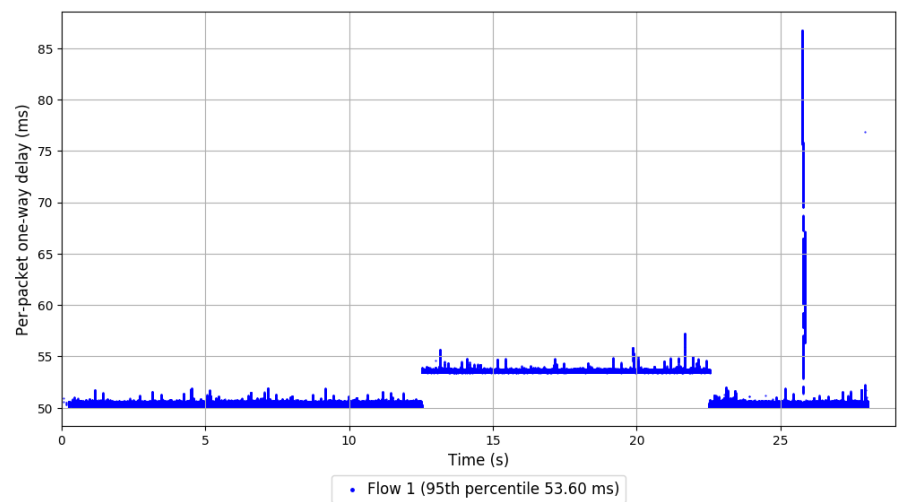
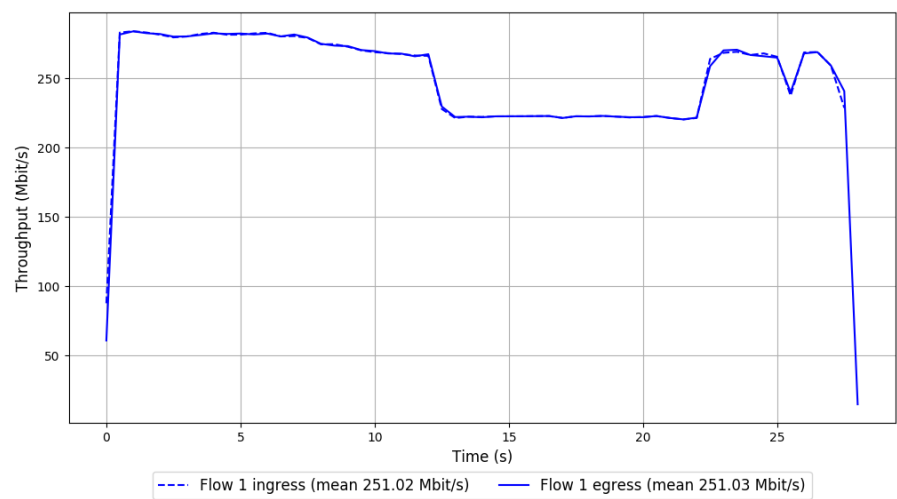


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 19:03:07
End at: 2018-01-16 19:03:37

# Below is generated by plot.py at 2018-01-16 21:04:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.03 Mbit/s
95th percentile per-packet one-way delay: 53.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.03 Mbit/s
95th percentile per-packet one-way delay: 53.602 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 17:04:40

End at: 2018-01-16 17:05:10

Below is generated by plot.py at 2018-01-16 21:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.23 Mbit/s

95th percentile per-packet one-way delay: 54.273 ms

Loss rate: 0.00%

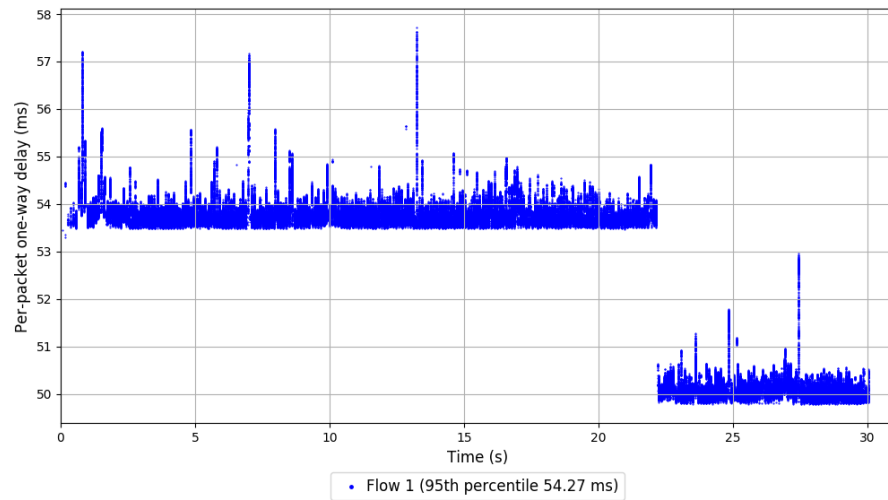
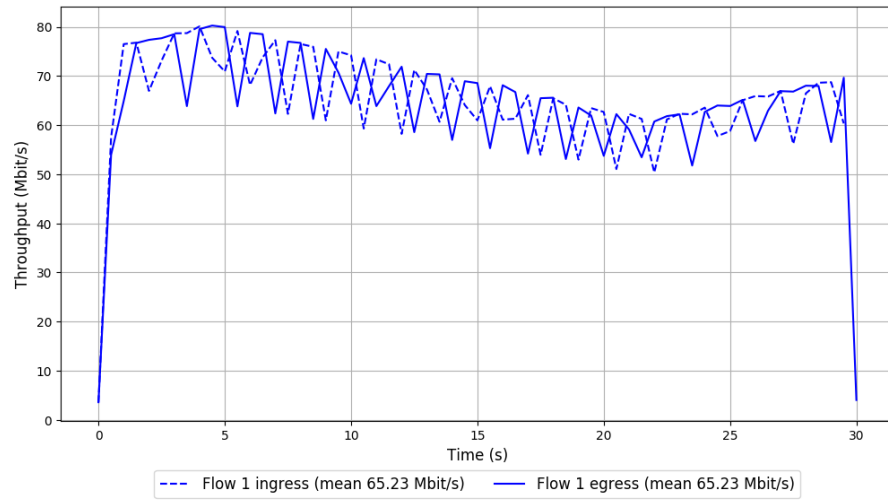
-- Flow 1:

Average throughput: 65.23 Mbit/s

95th percentile per-packet one-way delay: 54.273 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 17:18:29

End at: 2018-01-16 17:18:59

Below is generated by plot.py at 2018-01-16 21:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.42 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 0.00%

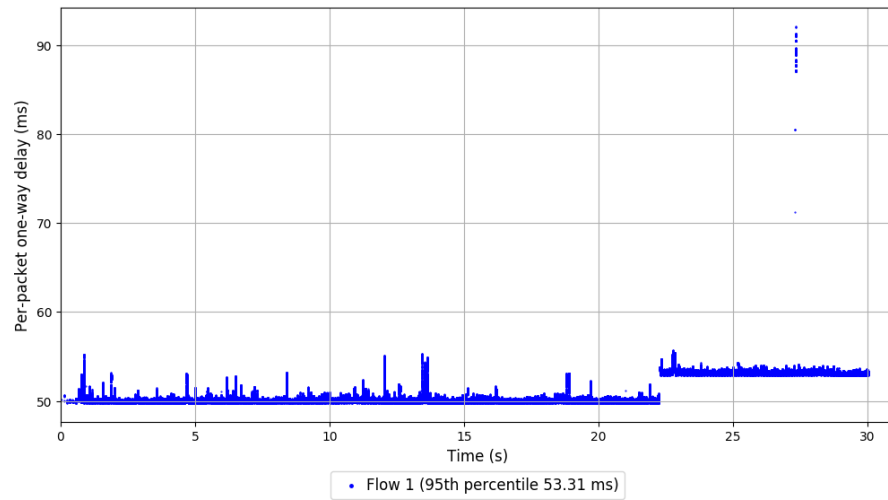
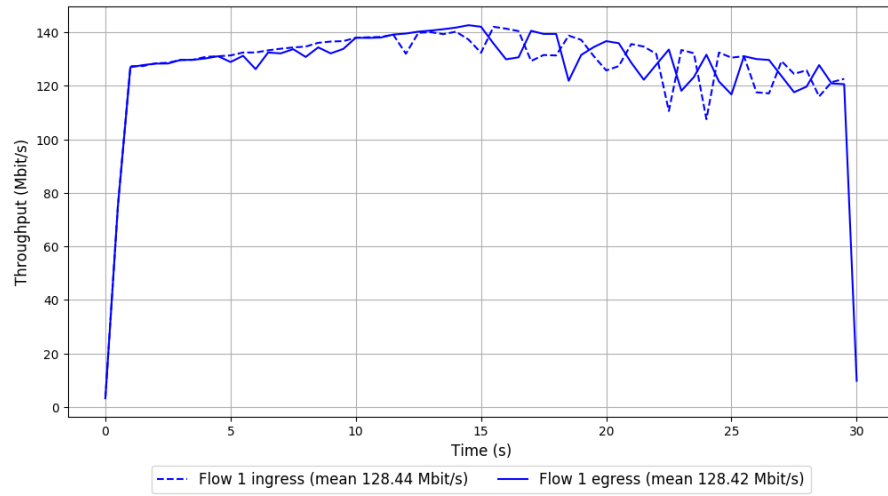
-- Flow 1:

Average throughput: 128.42 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 17:32:49

End at: 2018-01-16 17:33:19

Below is generated by plot.py at 2018-01-16 21:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.74 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 0.00%

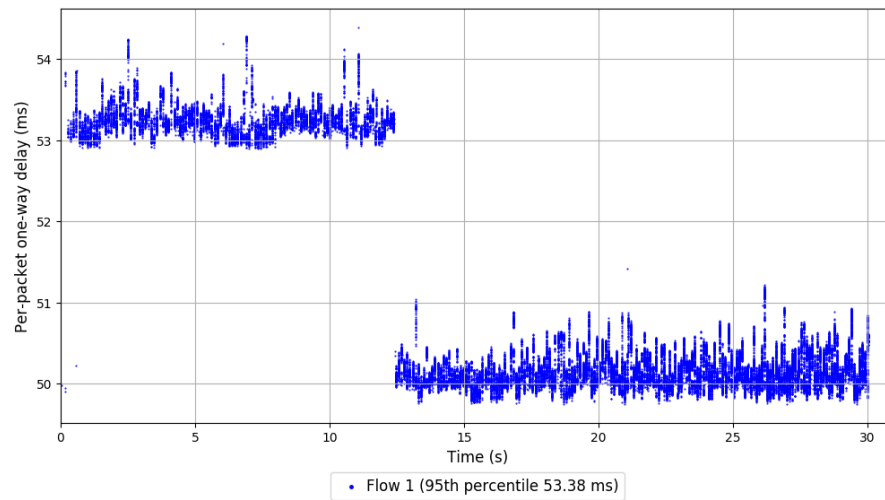
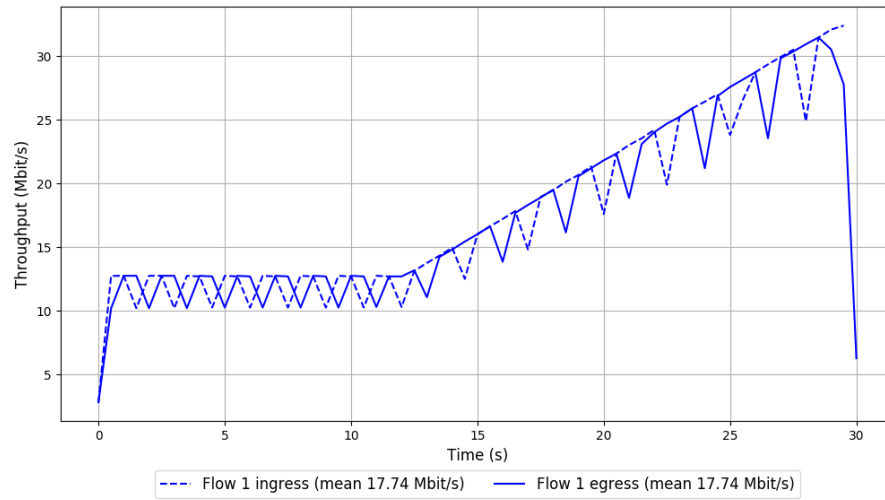
-- Flow 1:

Average throughput: 17.74 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 17:46:57

End at: 2018-01-16 17:47:27

Below is generated by plot.py at 2018-01-16 21:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.06 Mbit/s

95th percentile per-packet one-way delay: 53.449 ms

Loss rate: 0.73%

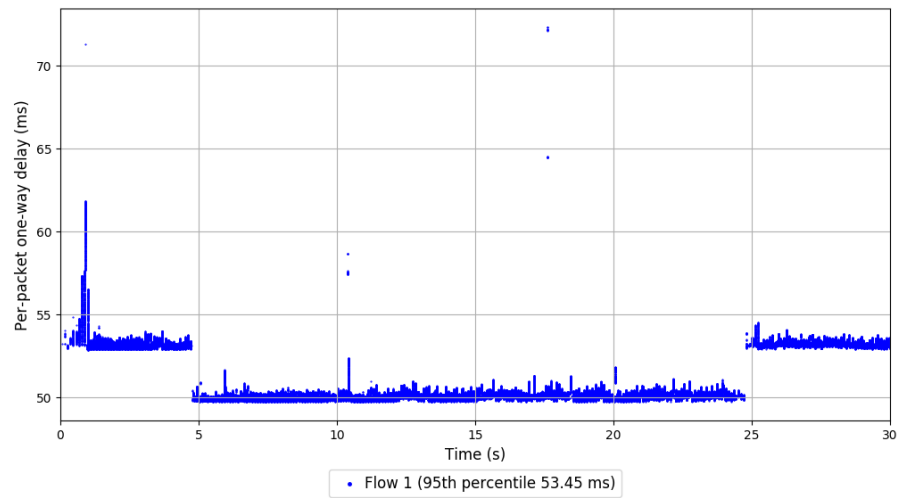
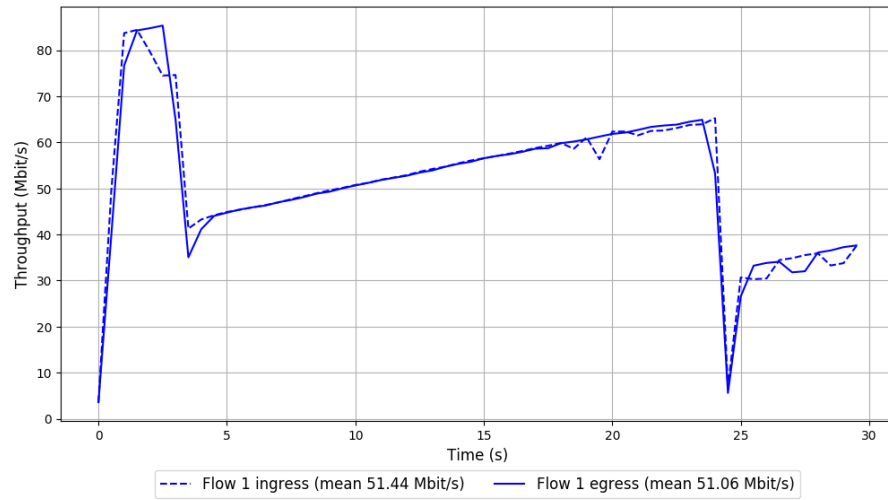
-- Flow 1:

Average throughput: 51.06 Mbit/s

95th percentile per-packet one-way delay: 53.449 ms

Loss rate: 0.73%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 18:01:07

End at: 2018-01-16 18:01:37

Below is generated by plot.py at 2018-01-16 21:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 55.018 ms

Loss rate: 0.00%

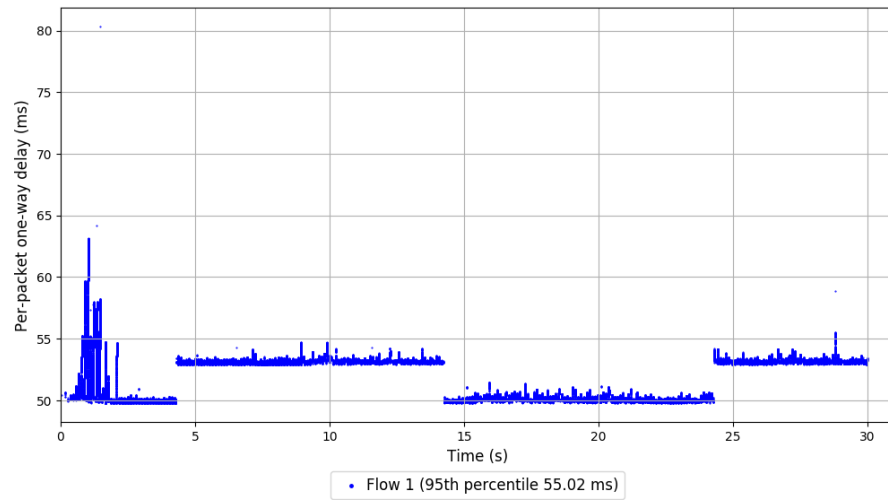
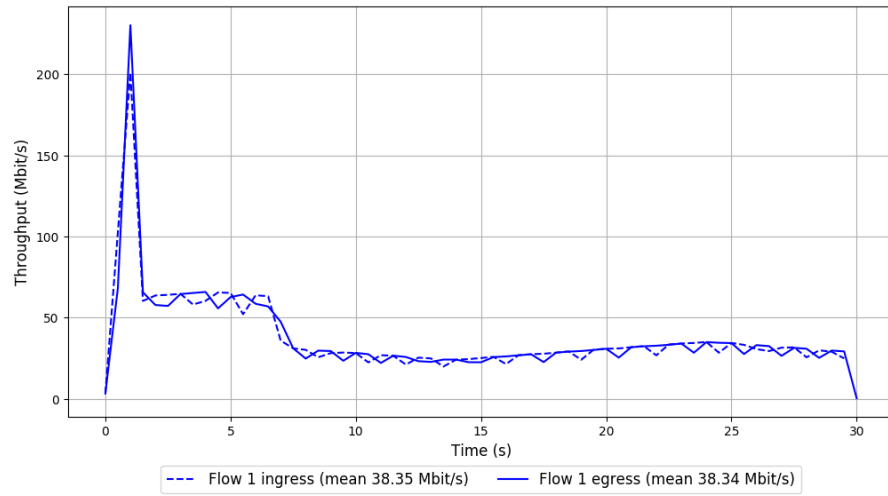
-- Flow 1:

Average throughput: 38.34 Mbit/s

95th percentile per-packet one-way delay: 55.018 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 18:15:10

End at: 2018-01-16 18:15:40

Below is generated by plot.py at 2018-01-16 21:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.85 Mbit/s

95th percentile per-packet one-way delay: 53.491 ms

Loss rate: 0.00%

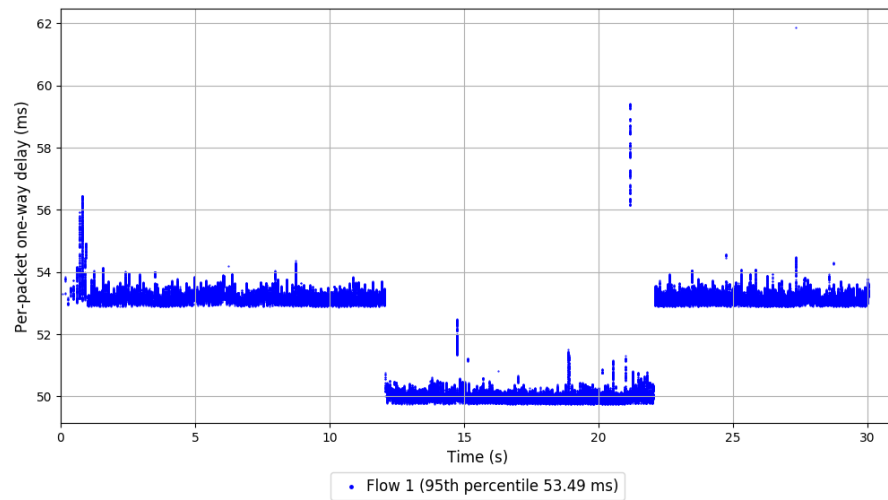
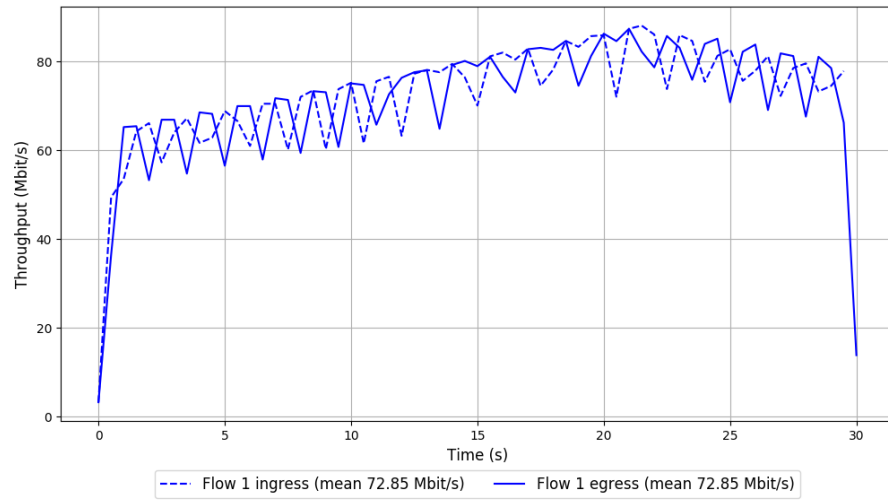
-- Flow 1:

Average throughput: 72.85 Mbit/s

95th percentile per-packet one-way delay: 53.491 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 18:29:08

End at: 2018-01-16 18:29:38

Below is generated by plot.py at 2018-01-16 21:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 53.883 ms

Loss rate: 0.00%

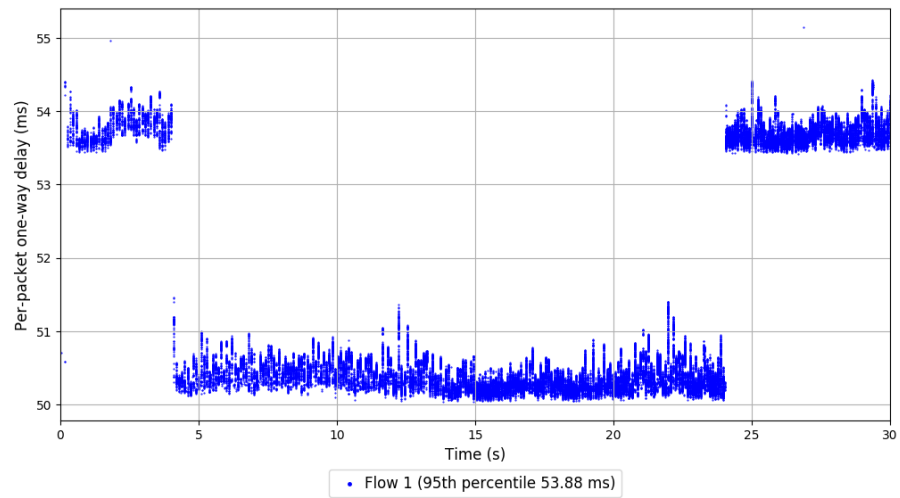
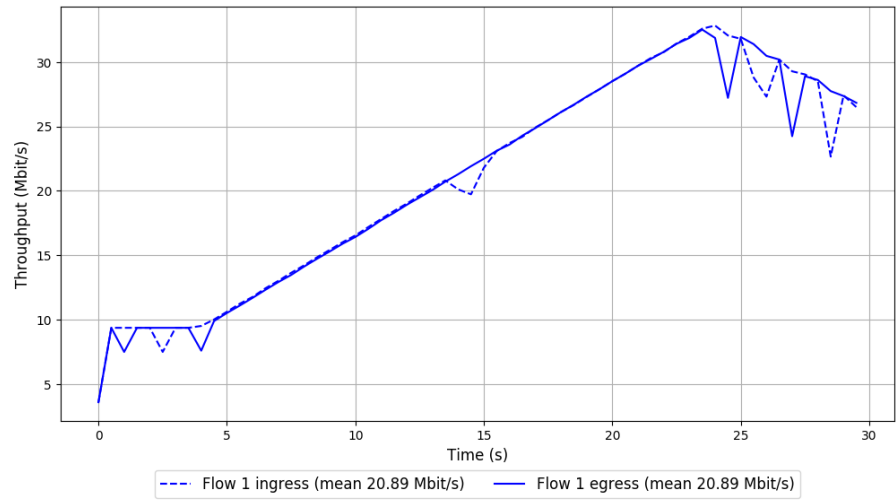
-- Flow 1:

Average throughput: 20.89 Mbit/s

95th percentile per-packet one-way delay: 53.883 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 18:43:34

End at: 2018-01-16 18:44:04

Below is generated by plot.py at 2018-01-16 21:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.66 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 0.00%

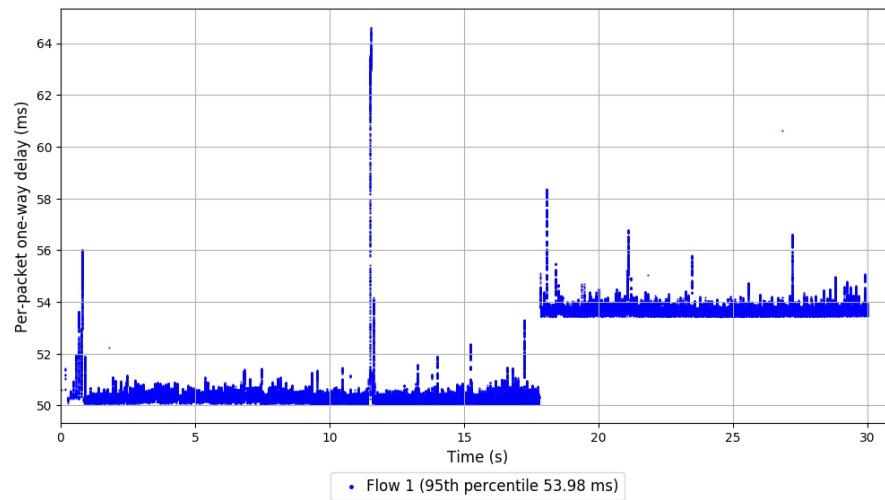
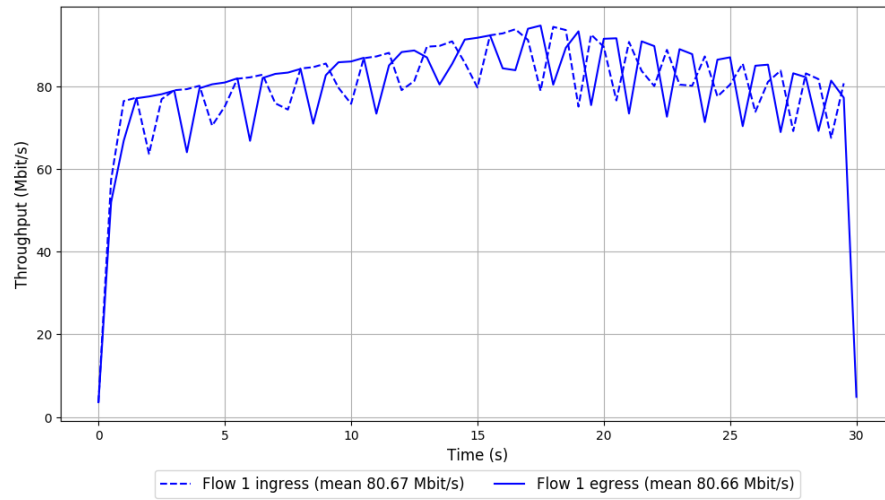
-- Flow 1:

Average throughput: 80.66 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-16 18:57:40

End at: 2018-01-16 18:58:10

Below is generated by plot.py at 2018-01-16 21:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.66 Mbit/s

95th percentile per-packet one-way delay: 54.195 ms

Loss rate: 0.16%

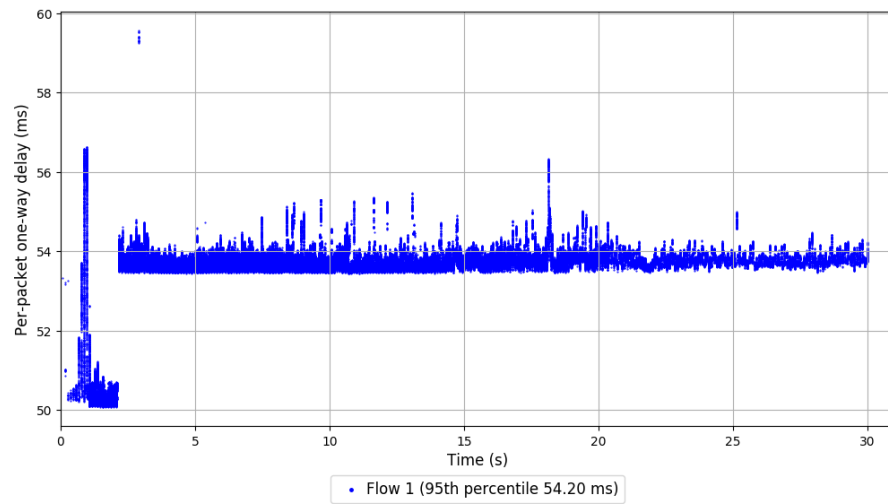
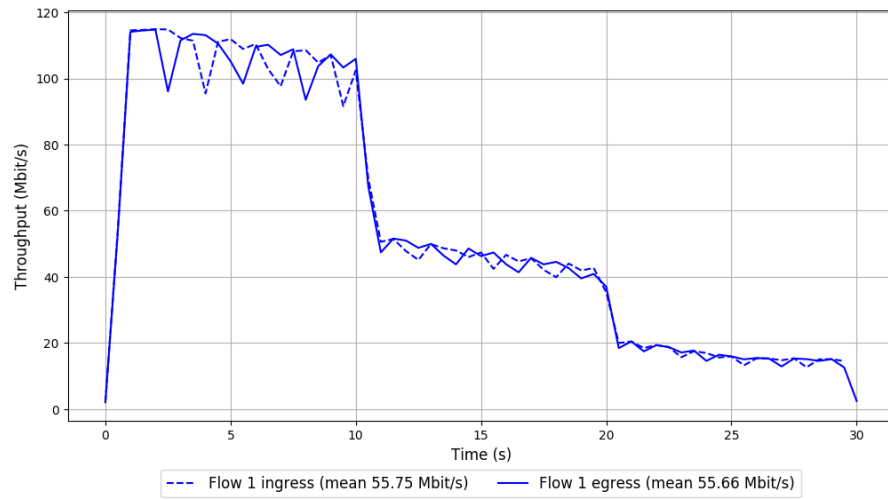
-- Flow 1:

Average throughput: 55.66 Mbit/s

95th percentile per-packet one-way delay: 54.195 ms

Loss rate: 0.16%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 19:11:51

End at: 2018-01-16 19:12:21

Below is generated by plot.py at 2018-01-16 21:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.28 Mbit/s

95th percentile per-packet one-way delay: 54.511 ms

Loss rate: 0.19%

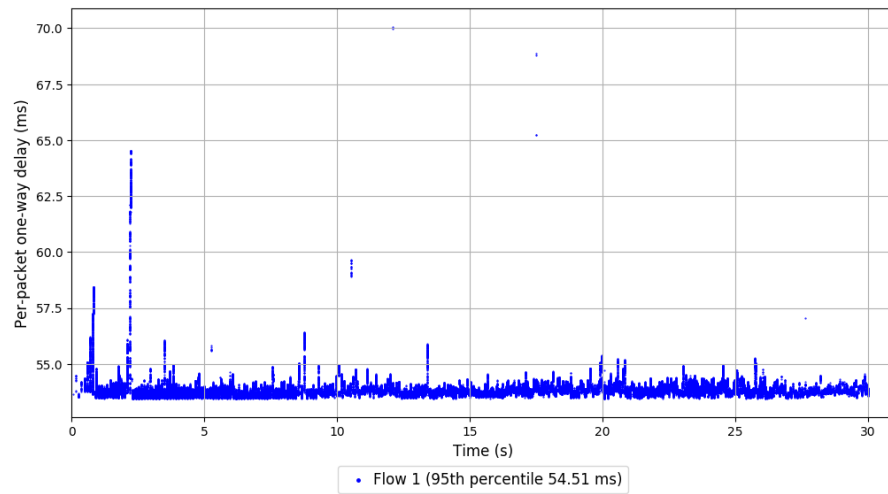
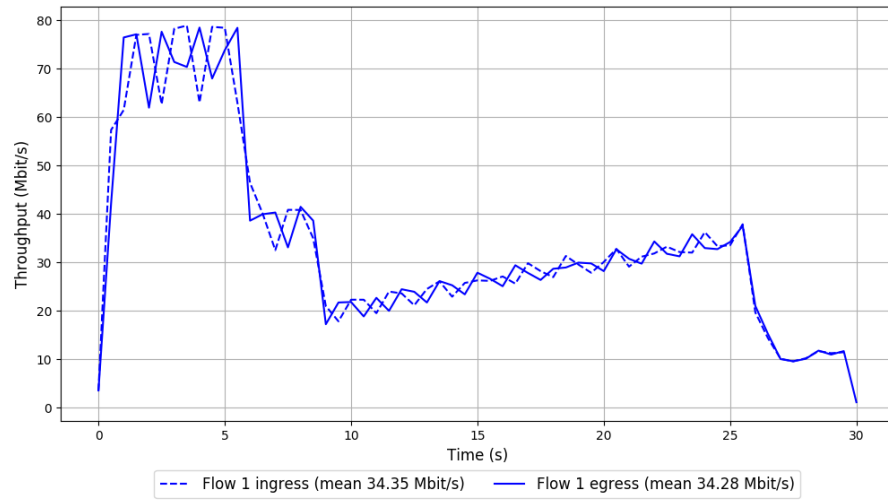
-- Flow 1:

Average throughput: 34.28 Mbit/s

95th percentile per-packet one-way delay: 54.511 ms

Loss rate: 0.19%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-16 17:00:37

End at: 2018-01-16 17:01:07

Below is generated by plot.py at 2018-01-16 21:07:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.30 Mbit/s

95th percentile per-packet one-way delay: 78.410 ms

Loss rate: 0.00%

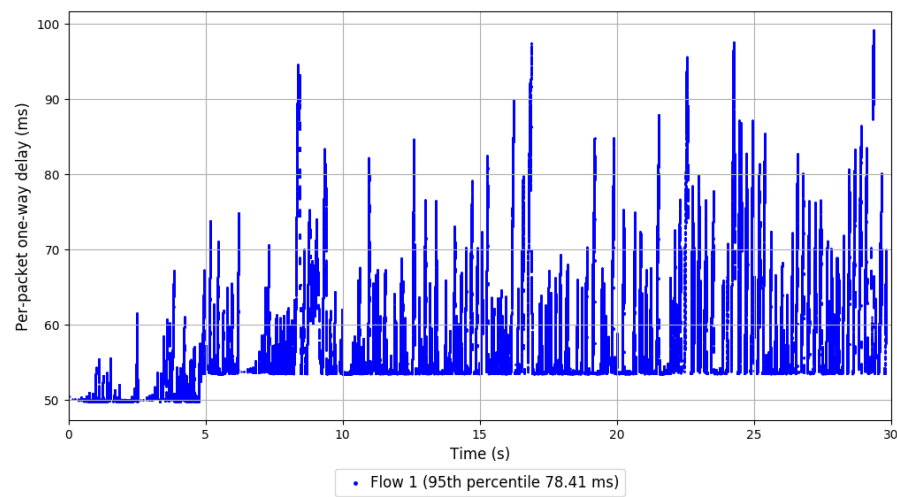
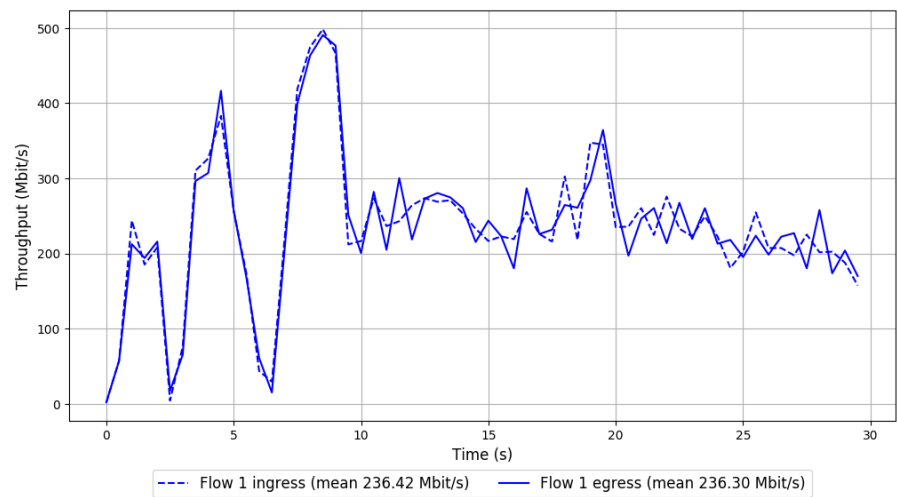
-- Flow 1:

Average throughput: 236.30 Mbit/s

95th percentile per-packet one-way delay: 78.410 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 17:14:26

End at: 2018-01-16 17:14:56

Below is generated by plot.py at 2018-01-16 21:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.79 Mbit/s

95th percentile per-packet one-way delay: 103.525 ms

Loss rate: 0.12%

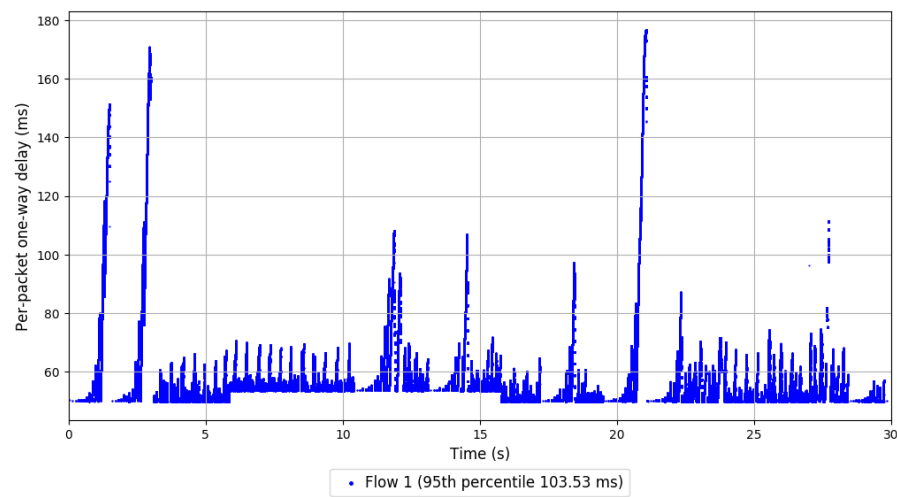
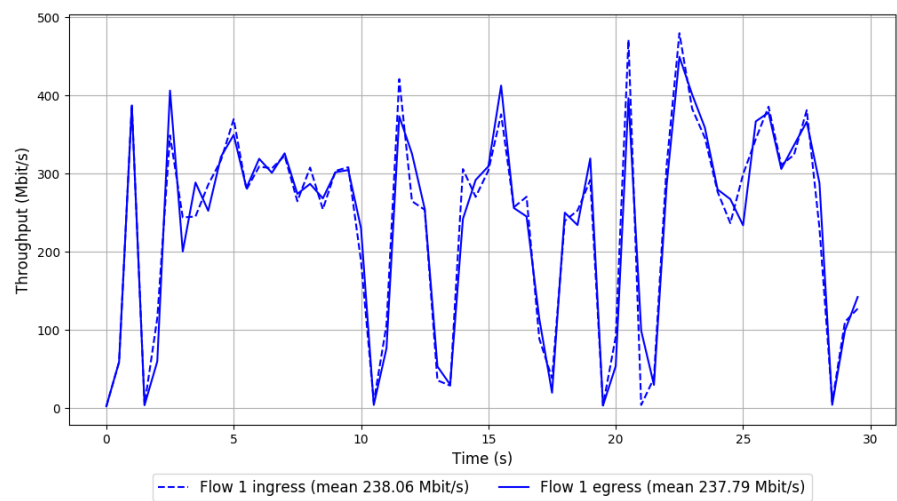
-- Flow 1:

Average throughput: 237.79 Mbit/s

95th percentile per-packet one-way delay: 103.525 ms

Loss rate: 0.12%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 17:28:43

End at: 2018-01-16 17:29:13

Below is generated by plot.py at 2018-01-16 21:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.14 Mbit/s

95th percentile per-packet one-way delay: 138.666 ms

Loss rate: 0.10%

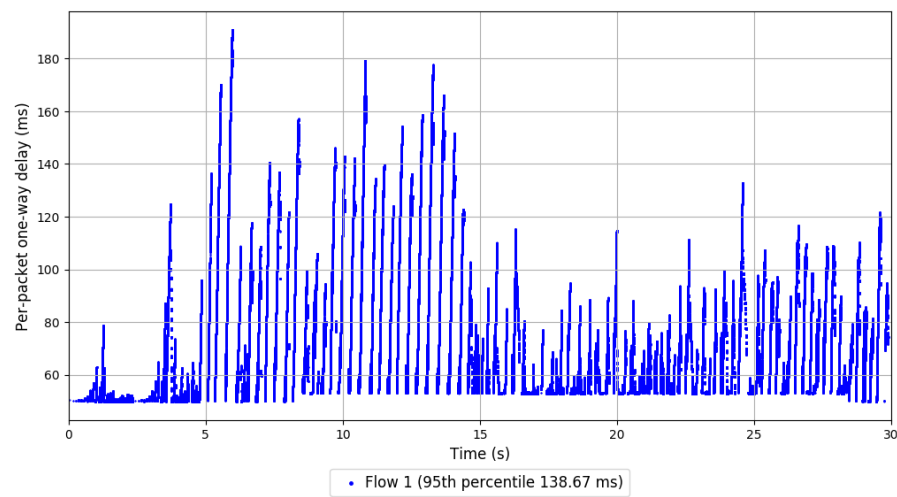
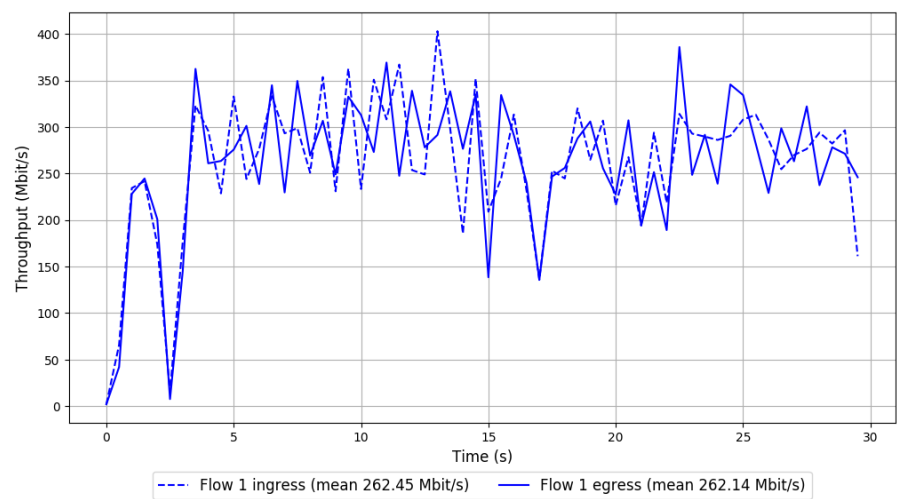
-- Flow 1:

Average throughput: 262.14 Mbit/s

95th percentile per-packet one-way delay: 138.666 ms

Loss rate: 0.10%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-16 17:43:04

End at: 2018-01-16 17:43:34

Below is generated by plot.py at 2018-01-16 21:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.34 Mbit/s

95th percentile per-packet one-way delay: 186.132 ms

Loss rate: 0.30%

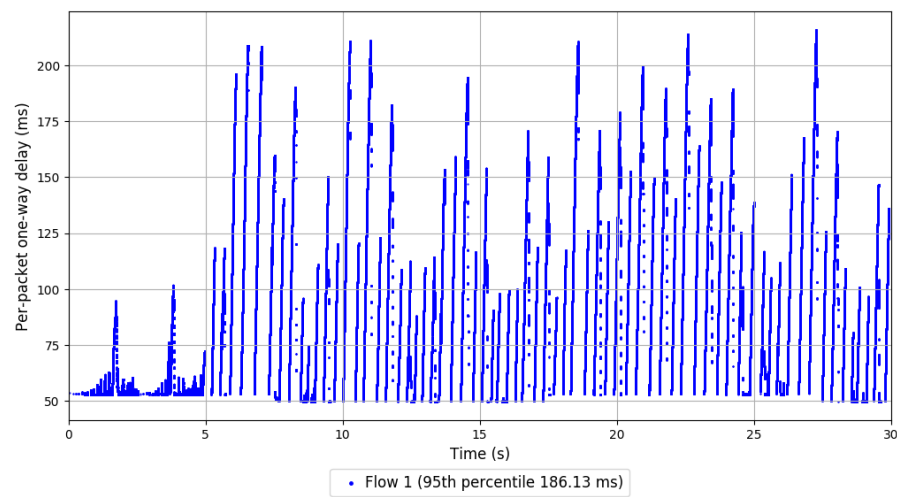
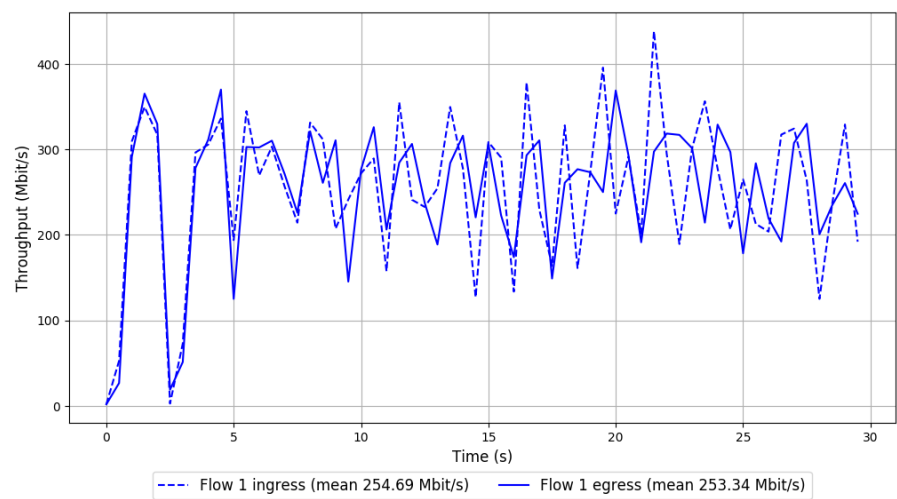
-- Flow 1:

Average throughput: 253.34 Mbit/s

95th percentile per-packet one-way delay: 186.132 ms

Loss rate: 0.30%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 17:57:20

End at: 2018-01-16 17:57:50

Below is generated by plot.py at 2018-01-16 21:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.98 Mbit/s

95th percentile per-packet one-way delay: 77.185 ms

Loss rate: 0.41%

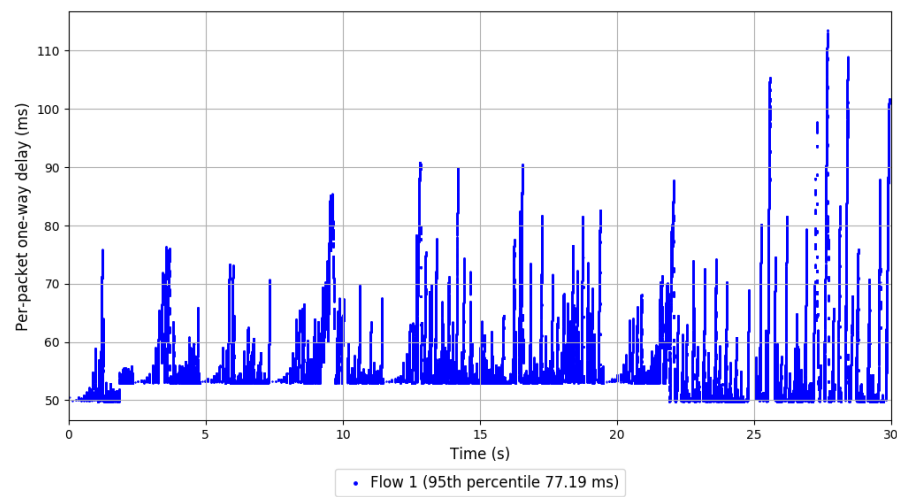
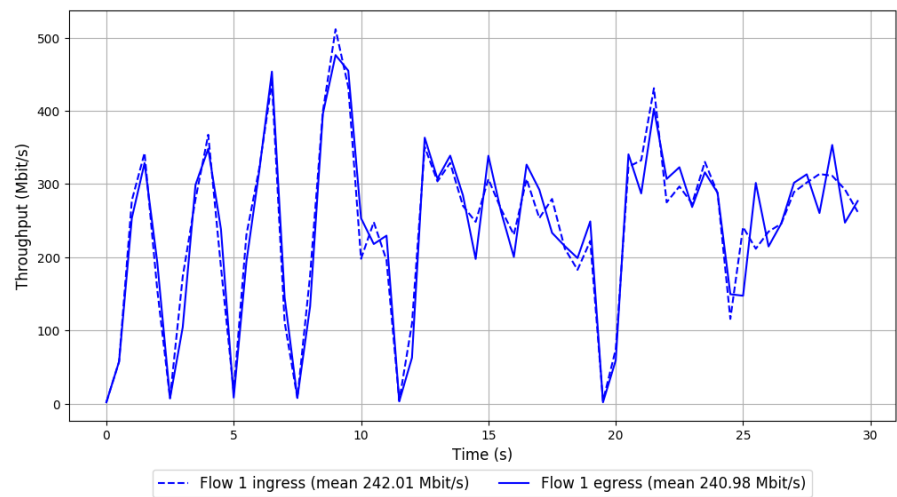
-- Flow 1:

Average throughput: 240.98 Mbit/s

95th percentile per-packet one-way delay: 77.185 ms

Loss rate: 0.41%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-16 18:11:20

End at: 2018-01-16 18:11:50

Below is generated by plot.py at 2018-01-16 21:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.50 Mbit/s

95th percentile per-packet one-way delay: 90.578 ms

Loss rate: 0.16%

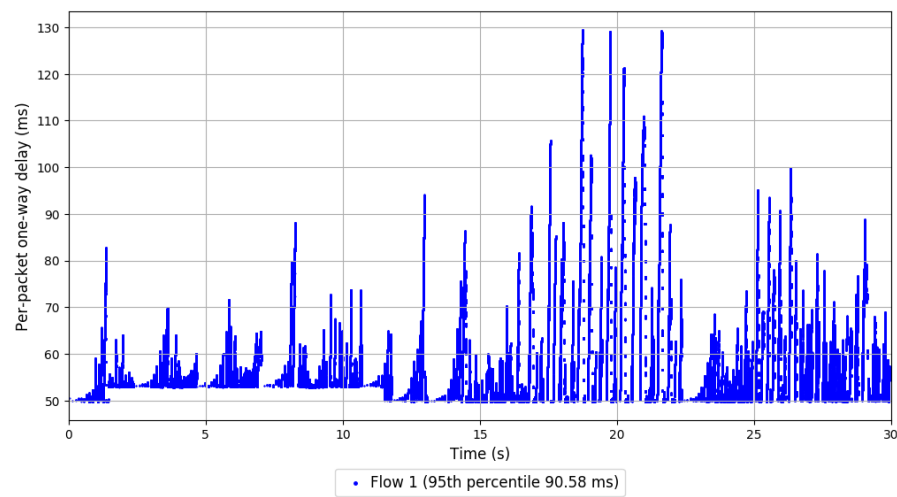
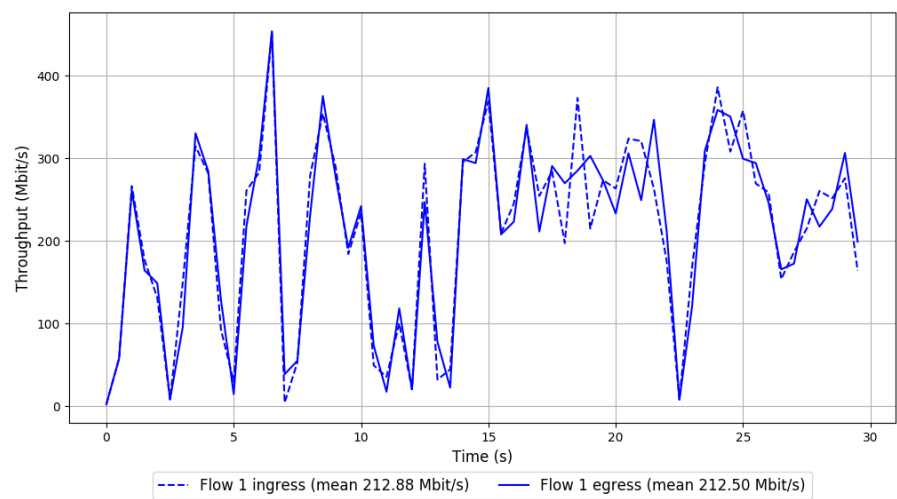
-- Flow 1:

Average throughput: 212.50 Mbit/s

95th percentile per-packet one-way delay: 90.578 ms

Loss rate: 0.16%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-16 18:25:01

End at: 2018-01-16 18:25:31

Below is generated by plot.py at 2018-01-16 21:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.59 Mbit/s

95th percentile per-packet one-way delay: 126.898 ms

Loss rate: 0.64%

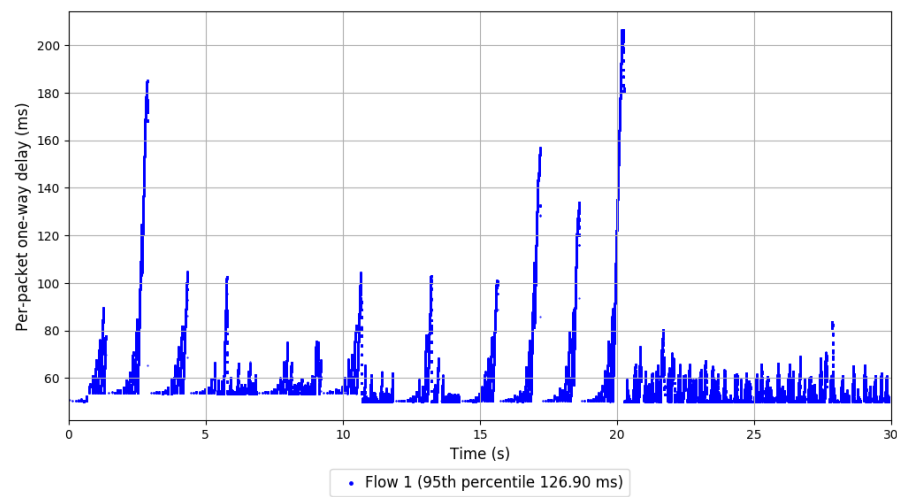
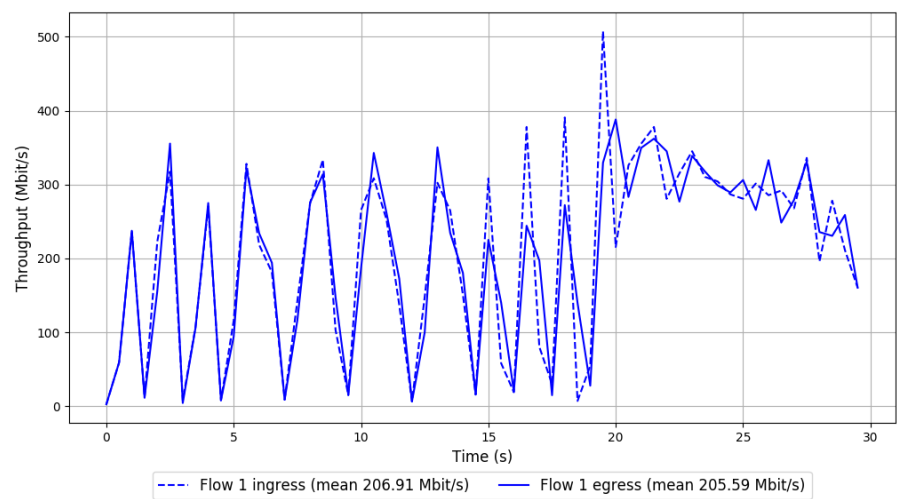
-- Flow 1:

Average throughput: 205.59 Mbit/s

95th percentile per-packet one-way delay: 126.898 ms

Loss rate: 0.64%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-16 18:39:19

End at: 2018-01-16 18:39:50

Below is generated by plot.py at 2018-01-16 21:09:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.56 Mbit/s

95th percentile per-packet one-way delay: 95.642 ms

Loss rate: 0.10%

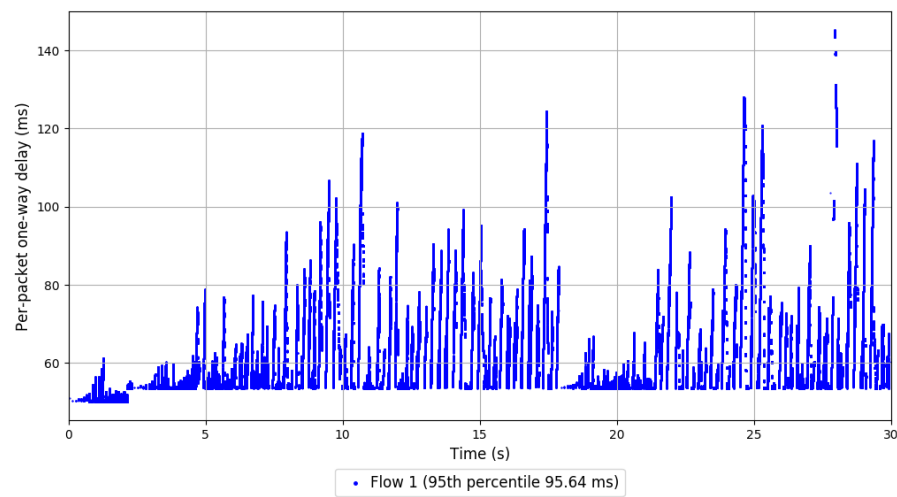
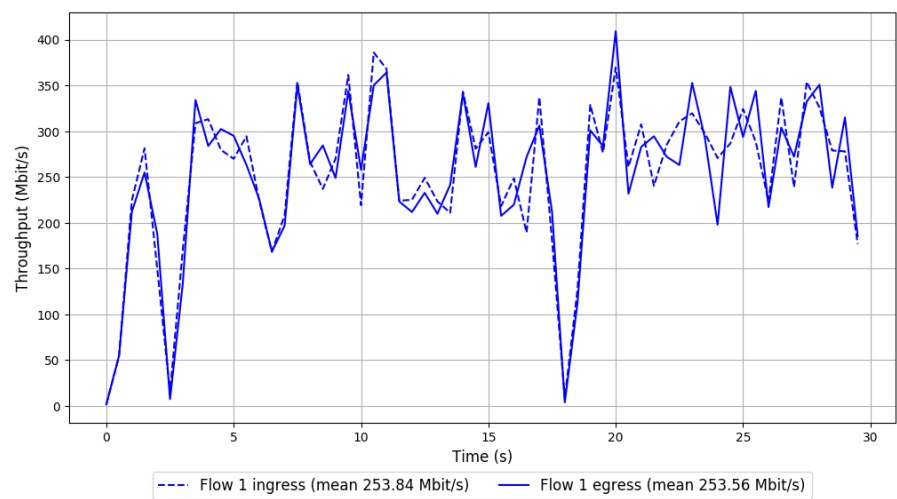
-- Flow 1:

Average throughput: 253.56 Mbit/s

95th percentile per-packet one-way delay: 95.642 ms

Loss rate: 0.10%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-16 18:53:49

End at: 2018-01-16 18:54:19

Below is generated by plot.py at 2018-01-16 21:11:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.01 Mbit/s

95th percentile per-packet one-way delay: 92.690 ms

Loss rate: 0.00%

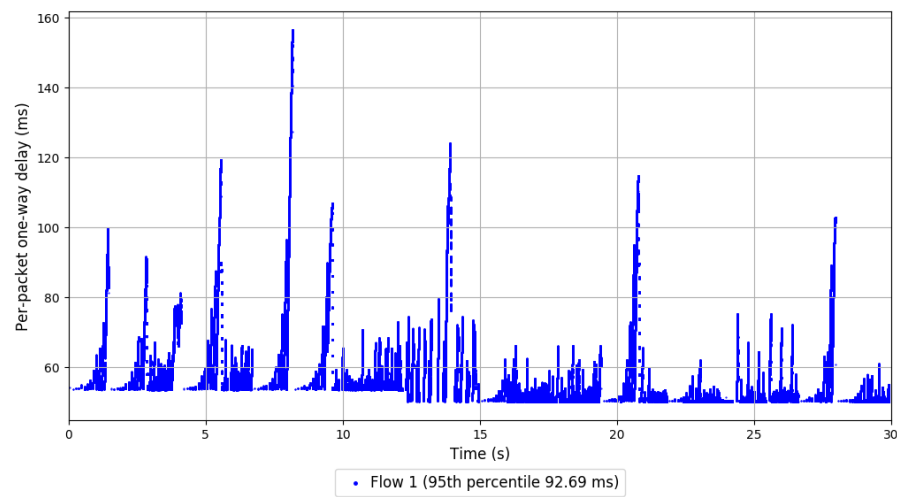
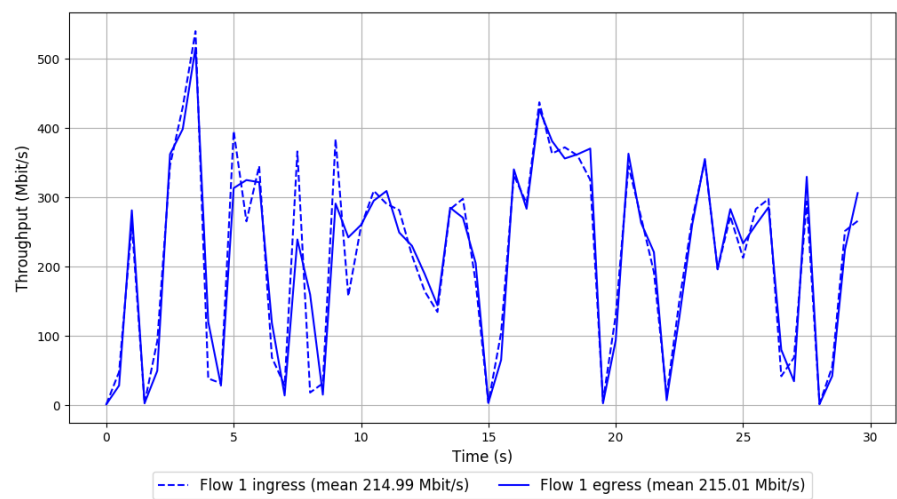
-- Flow 1:

Average throughput: 215.01 Mbit/s

95th percentile per-packet one-way delay: 92.690 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-16 19:07:39

End at: 2018-01-16 19:08:09

Below is generated by plot.py at 2018-01-16 21:12:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.83 Mbit/s

95th percentile per-packet one-way delay: 85.600 ms

Loss rate: 0.93%

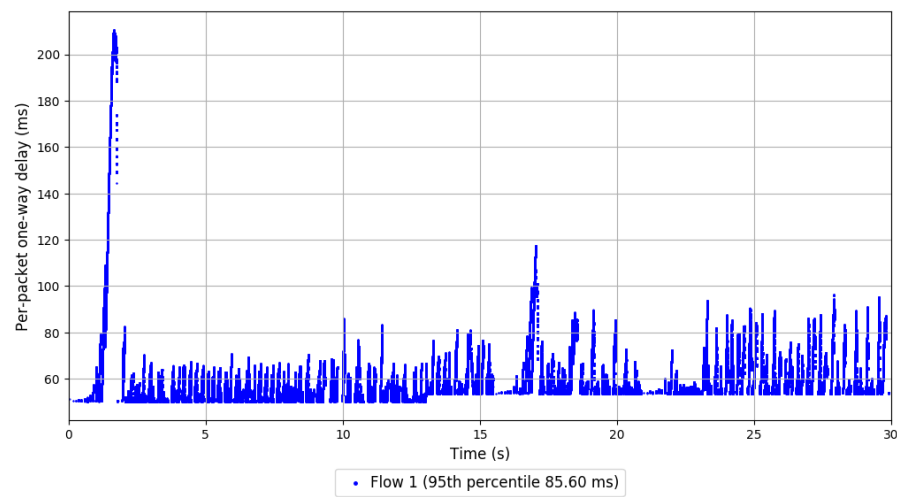
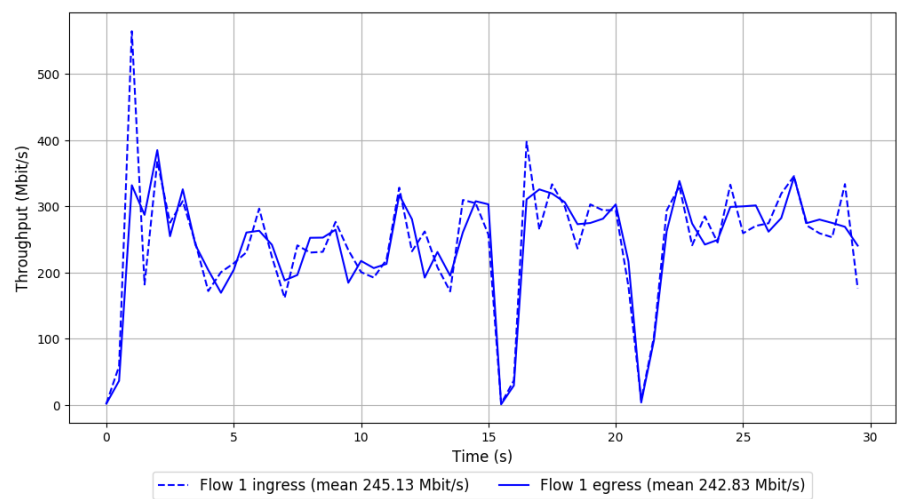
-- Flow 1:

Average throughput: 242.83 Mbit/s

95th percentile per-packet one-way delay: 85.600 ms

Loss rate: 0.93%

Run 10: Report of Verus — Data Link

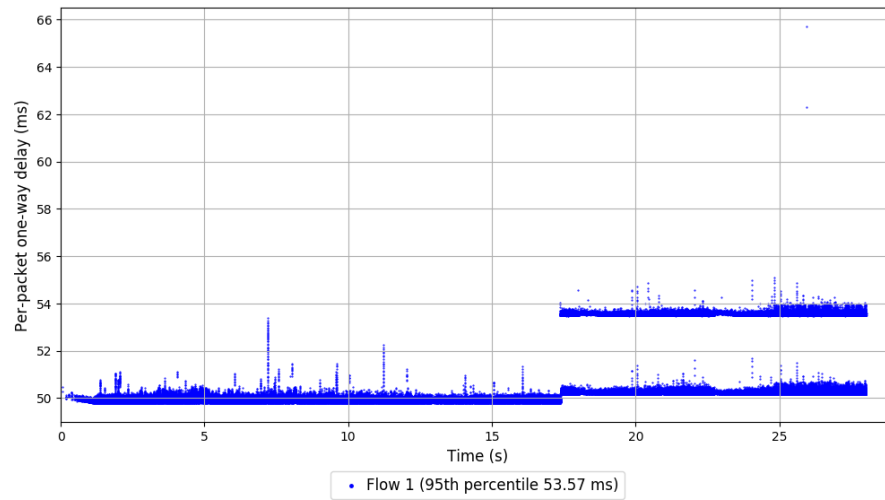
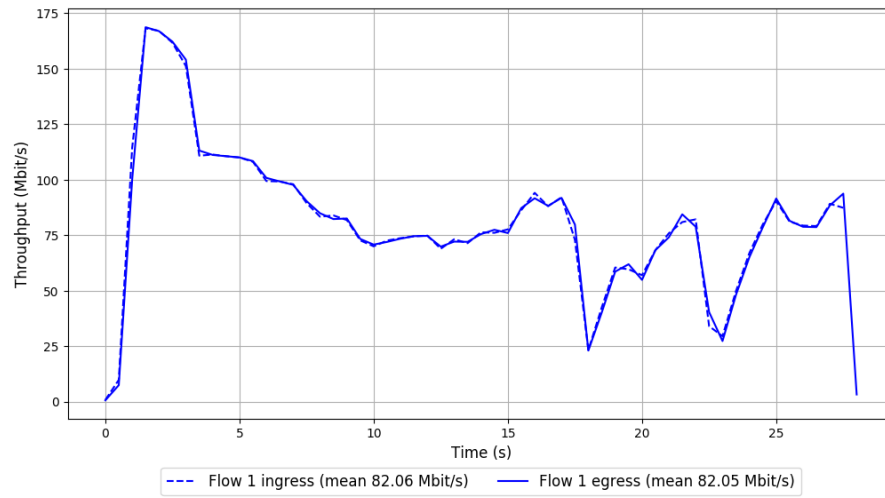


```
Run 1: Statistics of Copa

Start at: 2018-01-16 16:58:32
End at: 2018-01-16 16:59:02

# Below is generated by plot.py at 2018-01-16 21:12:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 53.570 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 82.05 Mbit/s
95th percentile per-packet one-way delay: 53.570 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-16 17:12:22

End at: 2018-01-16 17:12:52

Below is generated by plot.py at 2018-01-16 21:12:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 53.540 ms

Loss rate: 0.00%

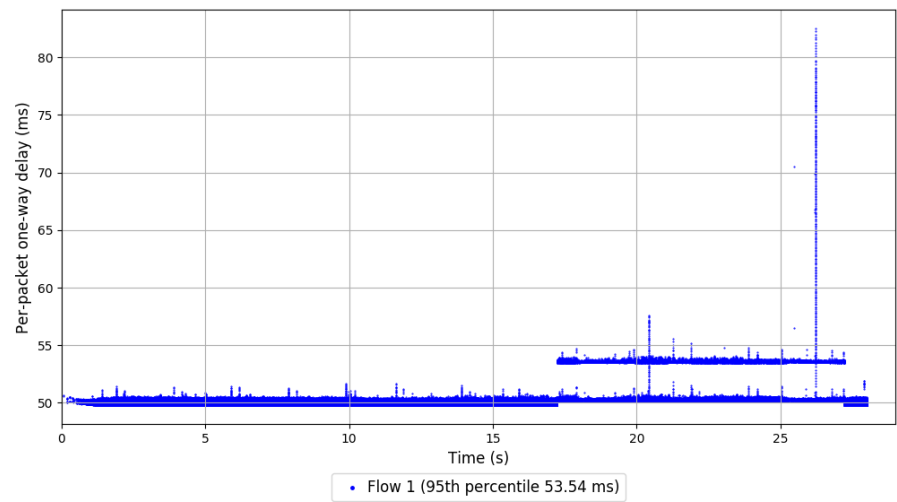
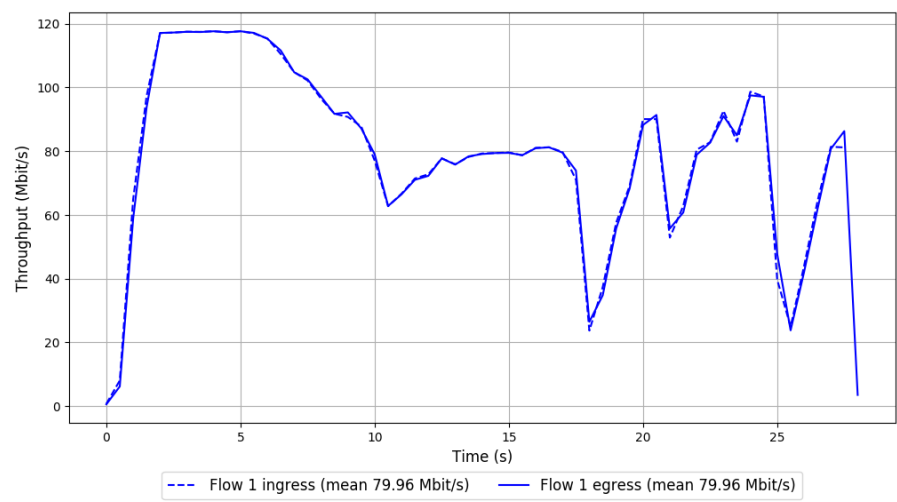
-- Flow 1:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 53.540 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-16 17:26:24

End at: 2018-01-16 17:26:54

Below is generated by plot.py at 2018-01-16 21:12:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 52.998 ms

Loss rate: 0.00%

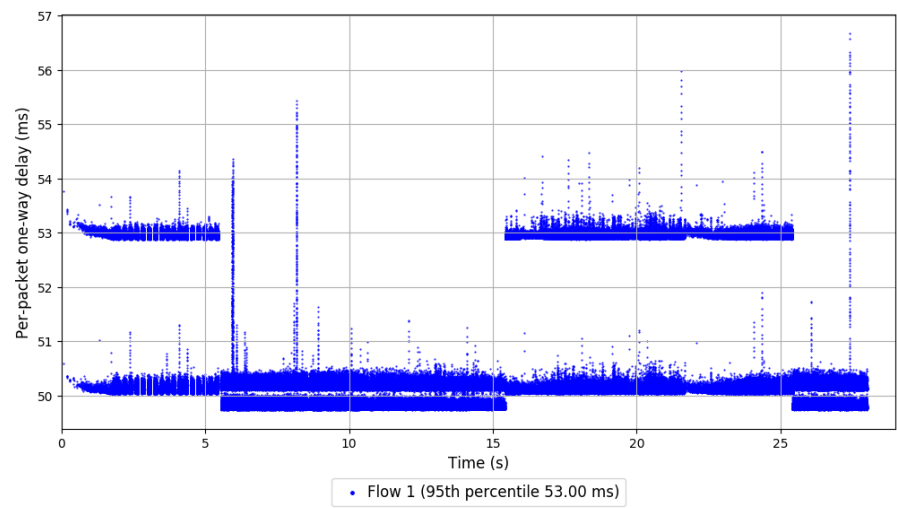
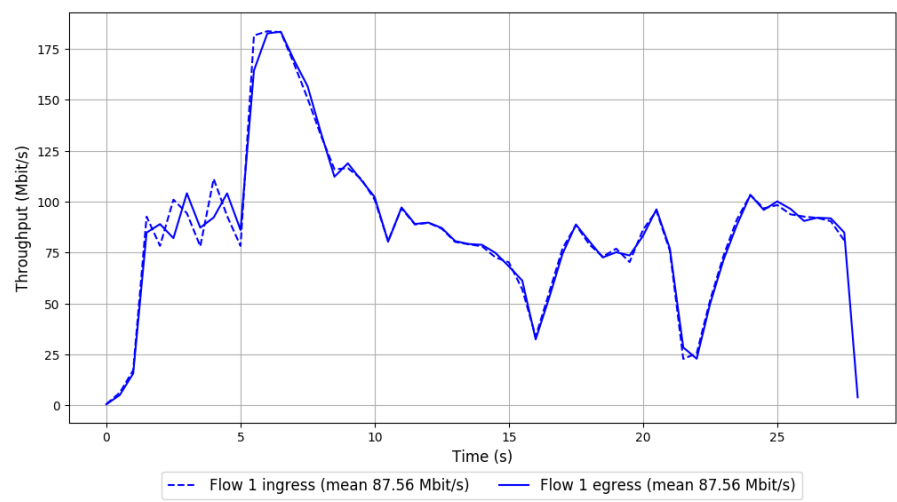
-- Flow 1:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 52.998 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 17:40:43

End at: 2018-01-16 17:41:13

Below is generated by plot.py at 2018-01-16 21:12:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 53.058 ms

Loss rate: 0.00%

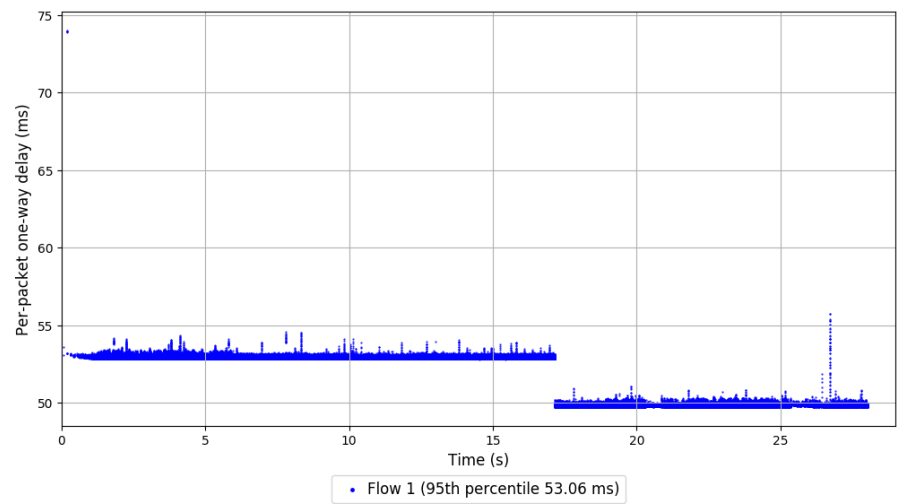
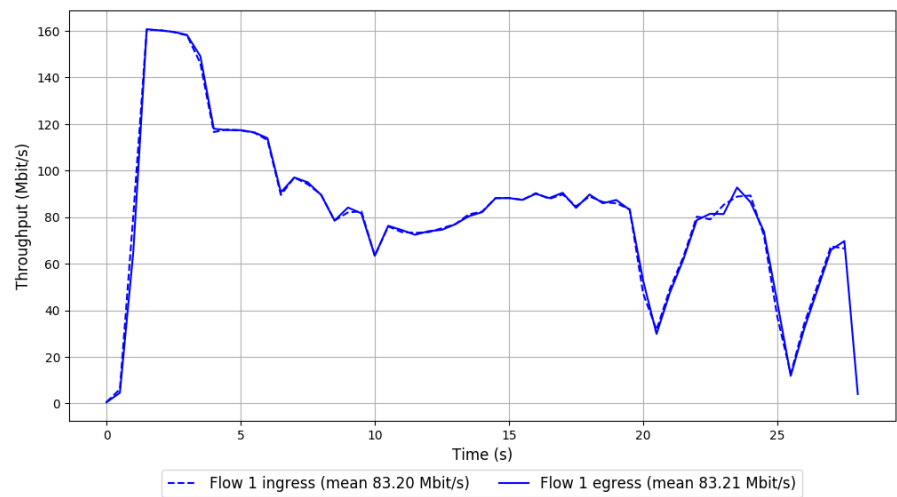
-- Flow 1:

Average throughput: 83.21 Mbit/s

95th percentile per-packet one-way delay: 53.058 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-16 17:54:53

End at: 2018-01-16 17:55:23

Below is generated by plot.py at 2018-01-16 21:12:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 53.039 ms

Loss rate: 0.00%

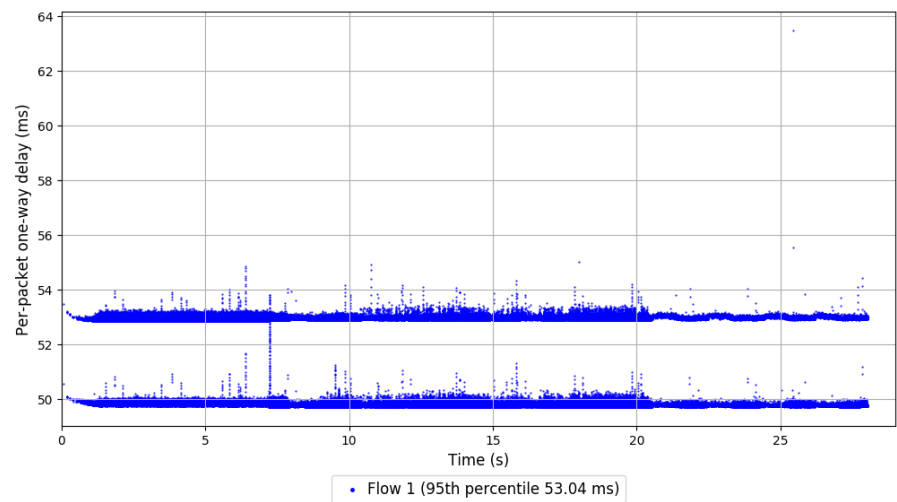
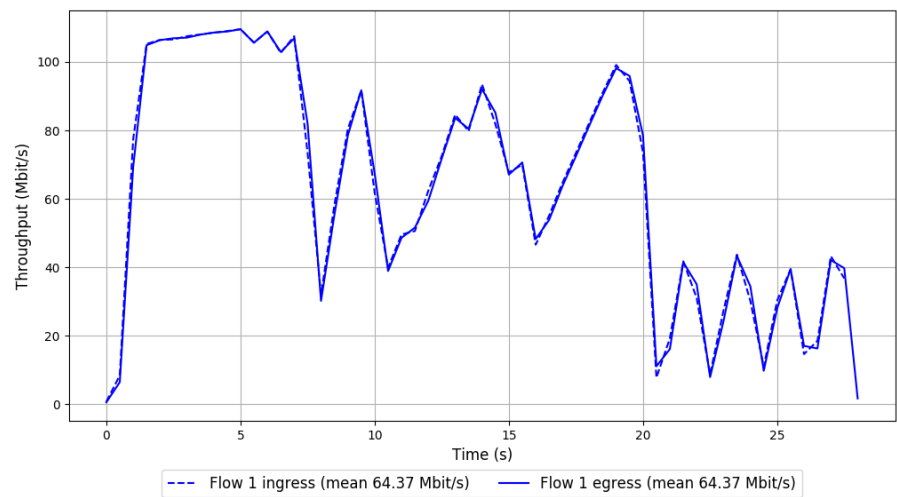
-- Flow 1:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 53.039 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-16 18:09:15

End at: 2018-01-16 18:09:45

Below is generated by plot.py at 2018-01-16 21:12:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 53.559 ms

Loss rate: 0.00%

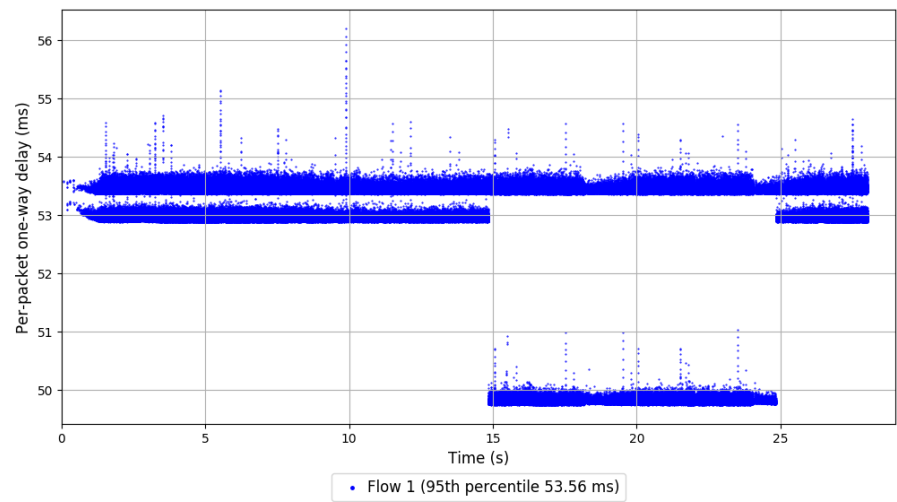
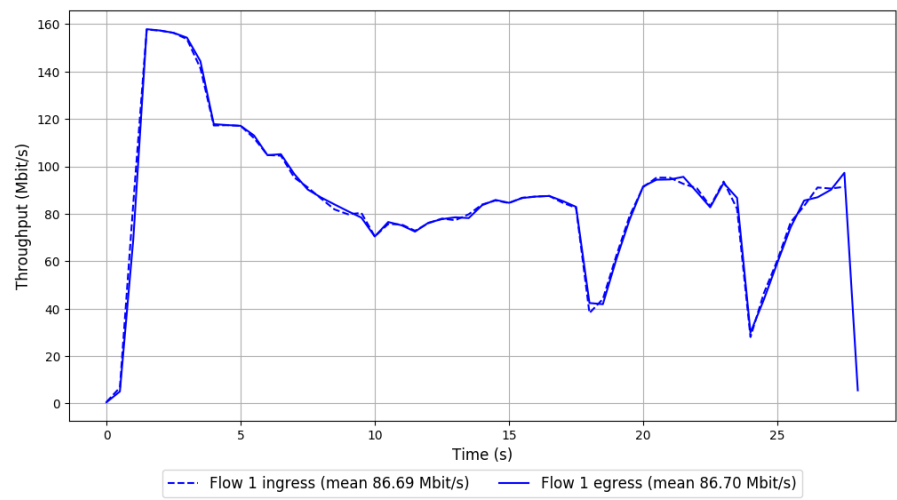
-- Flow 1:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 53.559 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-16 18:22:57

End at: 2018-01-16 18:23:27

Below is generated by plot.py at 2018-01-16 21:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 53.601 ms

Loss rate: 0.00%

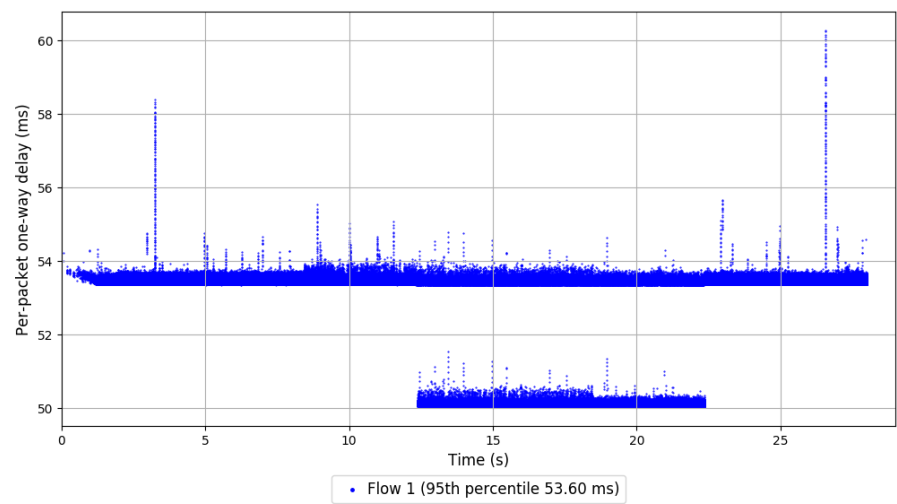
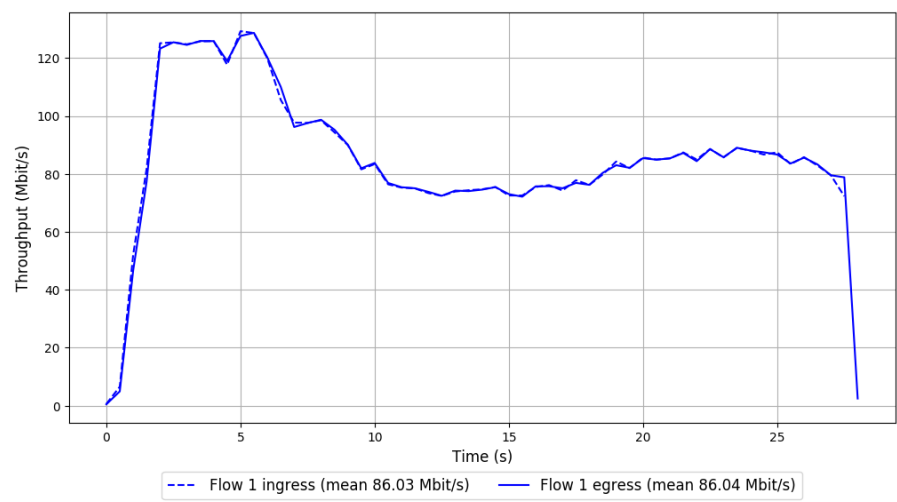
-- Flow 1:

Average throughput: 86.04 Mbit/s

95th percentile per-packet one-way delay: 53.601 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-16 18:37:16

End at: 2018-01-16 18:37:46

Below is generated by plot.py at 2018-01-16 21:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 53.531 ms

Loss rate: 0.00%

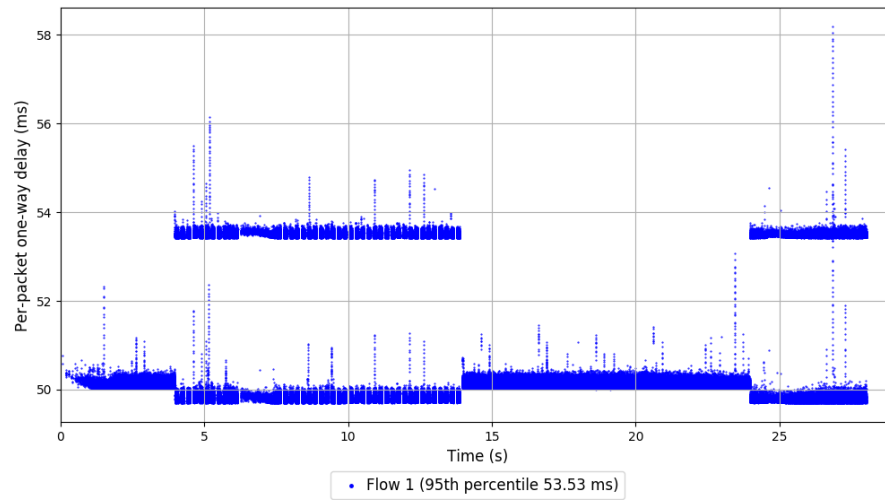
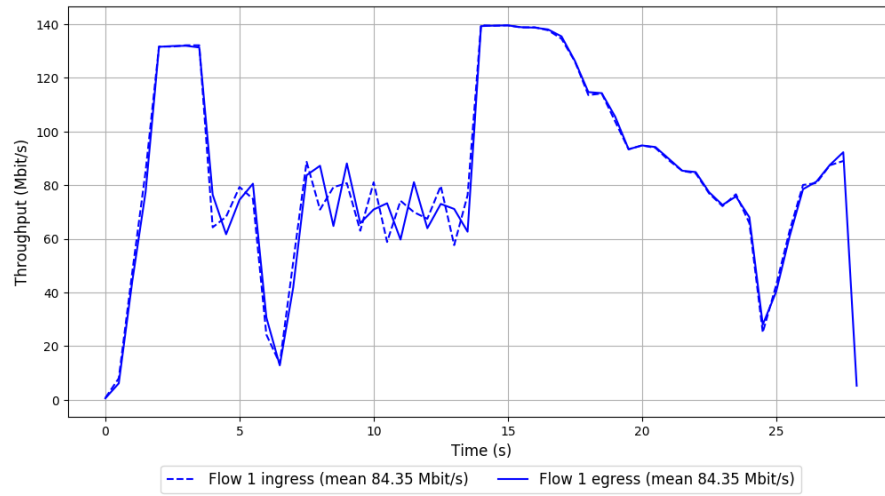
-- Flow 1:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 53.531 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-16 18:51:47

End at: 2018-01-16 18:52:17

Below is generated by plot.py at 2018-01-16 21:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.00%

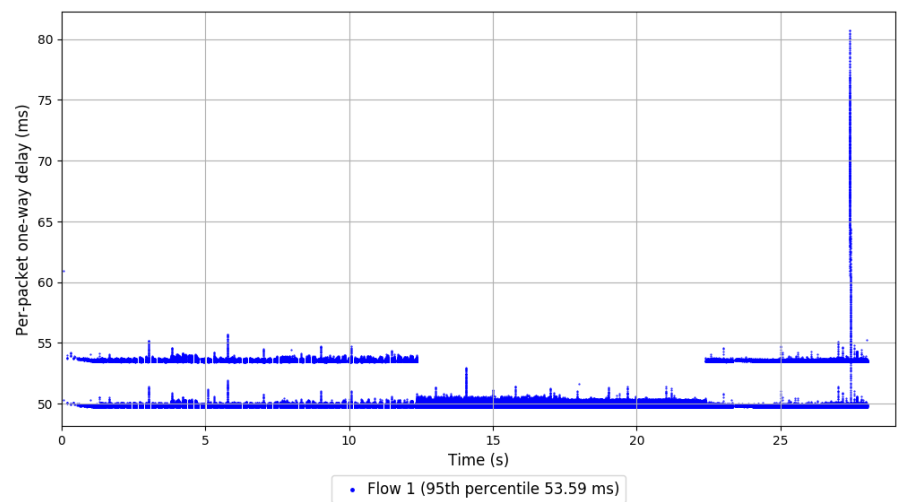
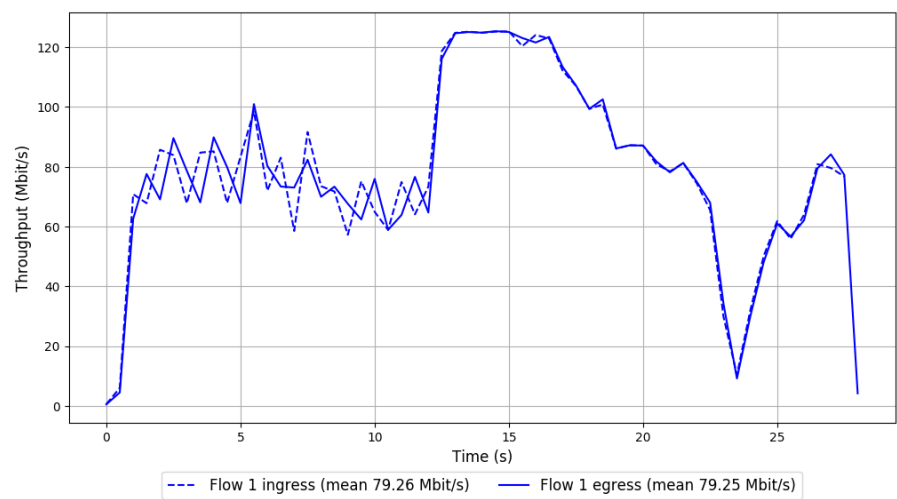
-- Flow 1:

Average throughput: 79.25 Mbit/s

95th percentile per-packet one-way delay: 53.585 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-16 19:05:34

End at: 2018-01-16 19:06:04

Below is generated by plot.py at 2018-01-16 21:13:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 53.633 ms

Loss rate: 0.00%

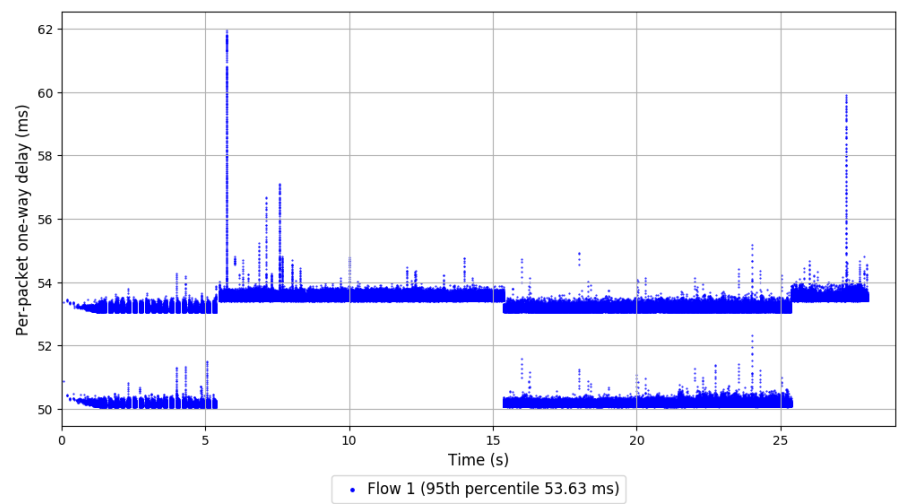
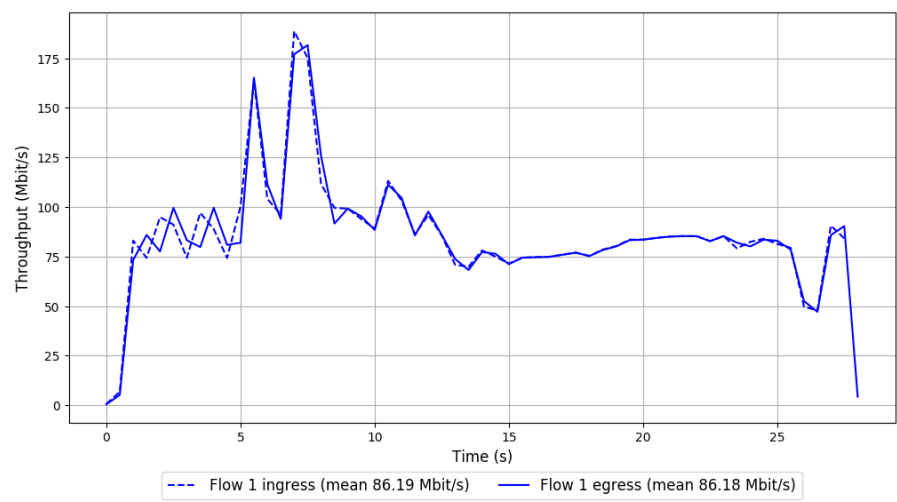
-- Flow 1:

Average throughput: 86.18 Mbit/s

95th percentile per-packet one-way delay: 53.633 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-16 16:53:59

End at: 2018-01-16 16:54:29

Below is generated by plot.py at 2018-01-16 21:20:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 553.91 Mbit/s

95th percentile per-packet one-way delay: 130.950 ms

Loss rate: 3.46%

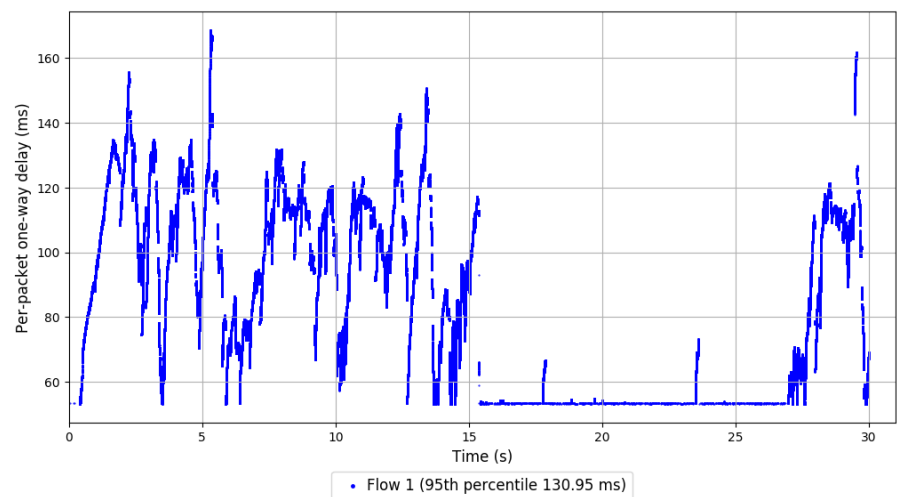
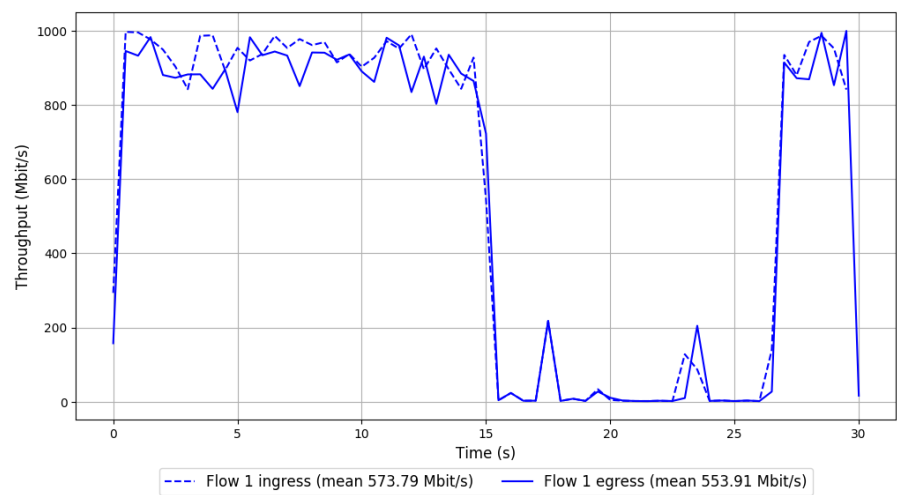
-- Flow 1:

Average throughput: 553.91 Mbit/s

95th percentile per-packet one-way delay: 130.950 ms

Loss rate: 3.46%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-16 17:07:42

End at: 2018-01-16 17:08:12

Below is generated by plot.py at 2018-01-16 21:29:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 813.79 Mbit/s

95th percentile per-packet one-way delay: 138.161 ms

Loss rate: 9.62%

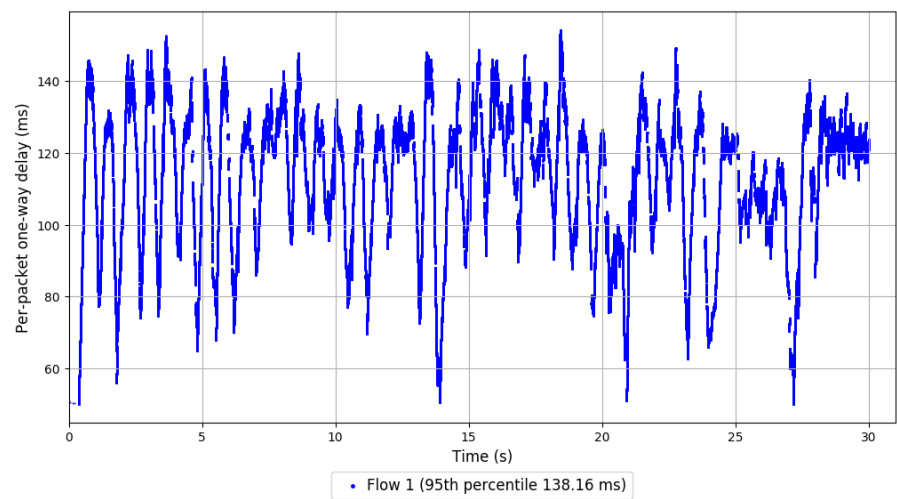
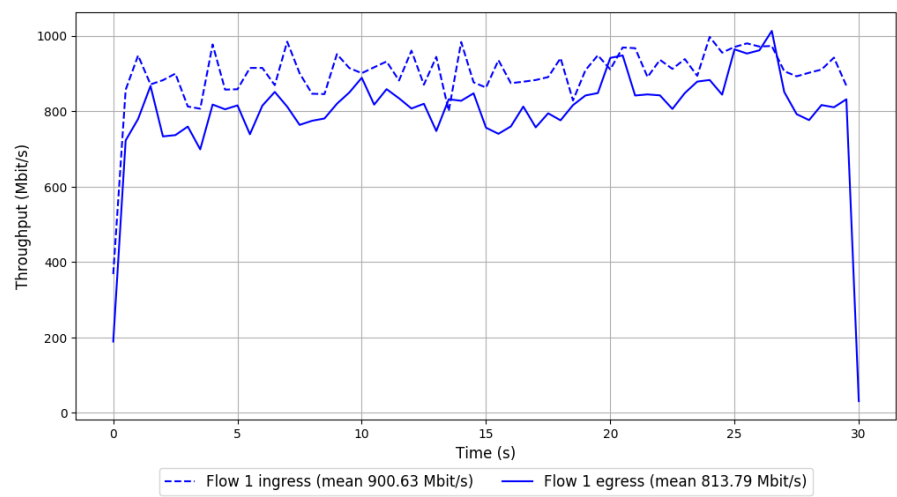
-- Flow 1:

Average throughput: 813.79 Mbit/s

95th percentile per-packet one-way delay: 138.161 ms

Loss rate: 9.62%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 17:21:38

End at: 2018-01-16 17:22:08

Below is generated by plot.py at 2018-01-16 21:29:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 937.68 Mbit/s

95th percentile per-packet one-way delay: 117.261 ms

Loss rate: 1.42%

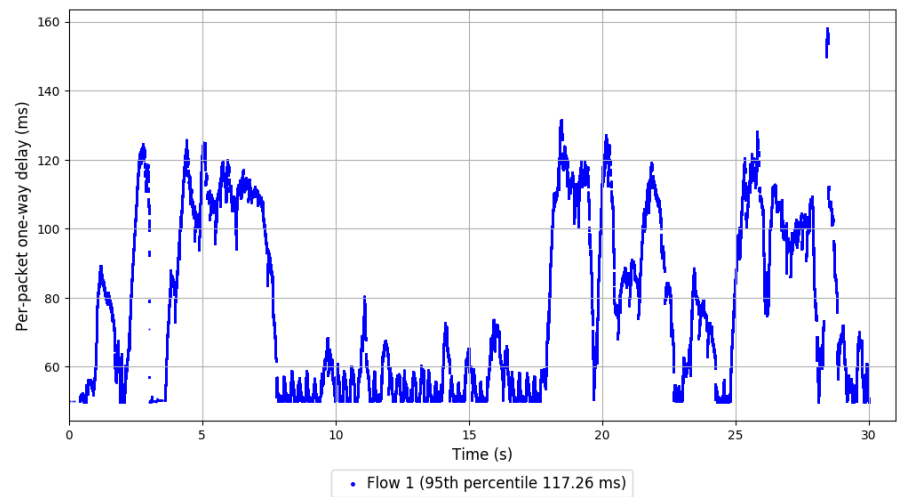
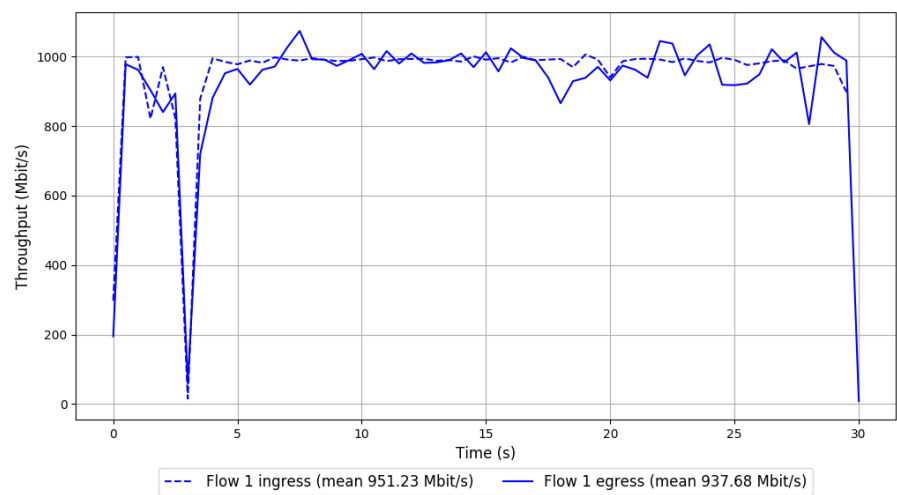
-- Flow 1:

Average throughput: 937.68 Mbit/s

95th percentile per-packet one-way delay: 117.261 ms

Loss rate: 1.42%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 17:35:50

End at: 2018-01-16 17:36:20

Below is generated by plot.py at 2018-01-16 21:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 932.01 Mbit/s

95th percentile per-packet one-way delay: 153.141 ms

Loss rate: 3.03%

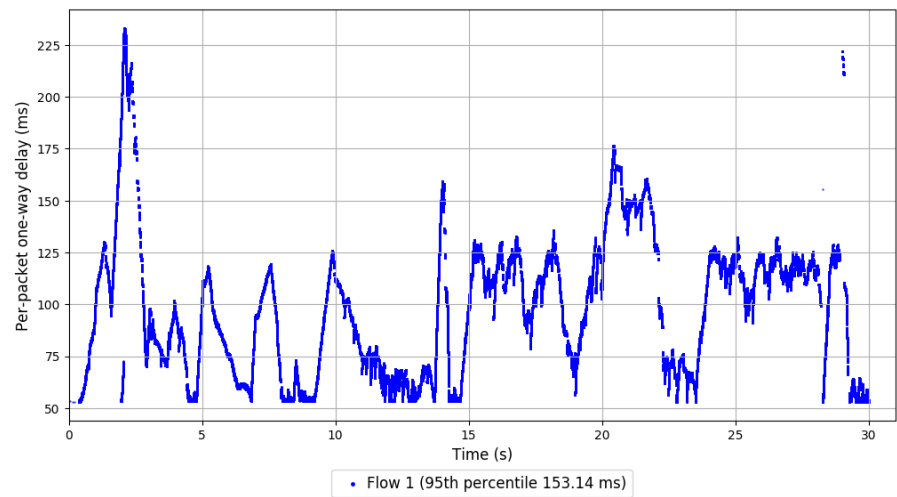
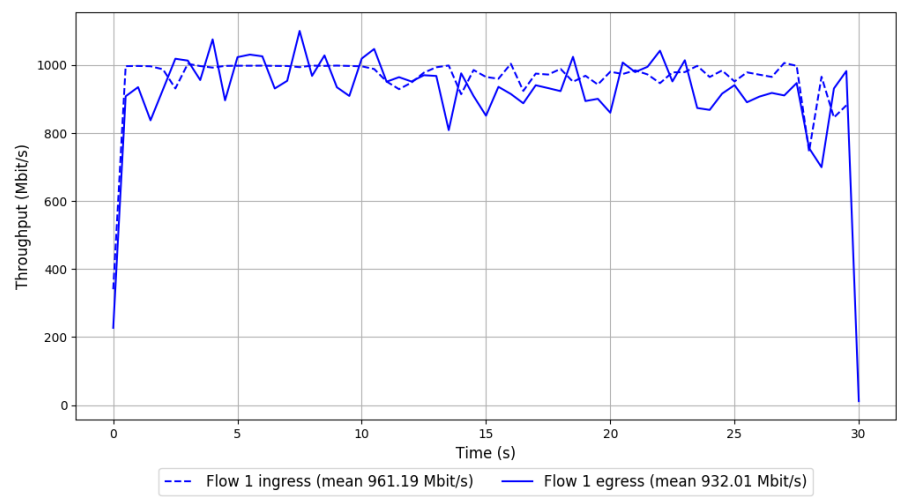
-- Flow 1:

Average throughput: 932.01 Mbit/s

95th percentile per-packet one-way delay: 153.141 ms

Loss rate: 3.03%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 17:49:56

End at: 2018-01-16 17:50:26

Below is generated by plot.py at 2018-01-16 21:30:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 925.28 Mbit/s

95th percentile per-packet one-way delay: 123.965 ms

Loss rate: 3.77%

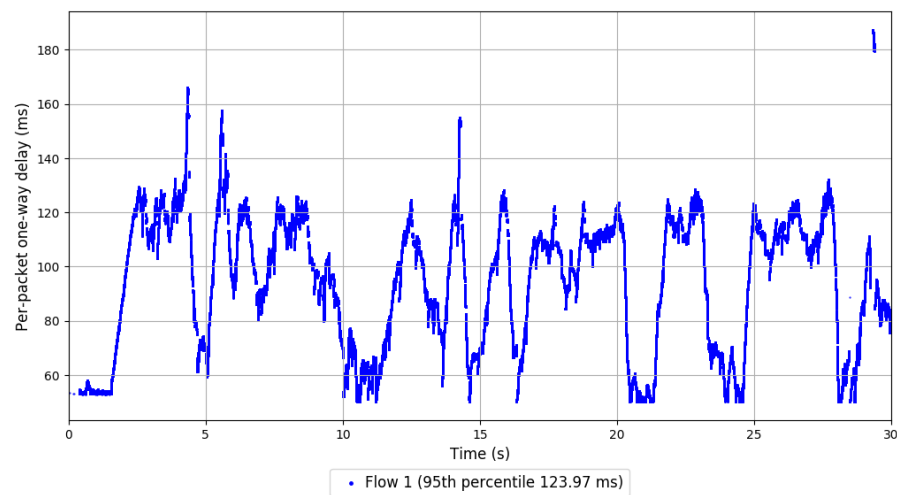
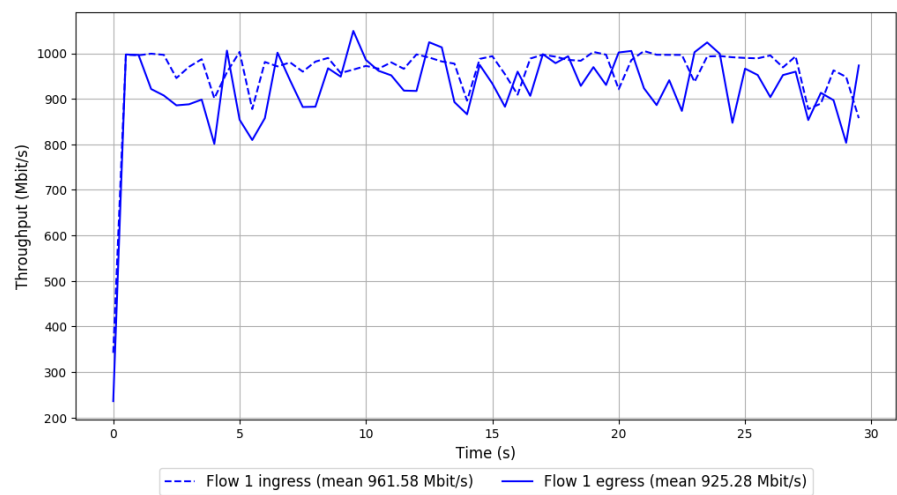
-- Flow 1:

Average throughput: 925.28 Mbit/s

95th percentile per-packet one-way delay: 123.965 ms

Loss rate: 3.77%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-16 18:04:07

End at: 2018-01-16 18:04:37

Below is generated by plot.py at 2018-01-16 21:30:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 942.57 Mbit/s

95th percentile per-packet one-way delay: 122.120 ms

Loss rate: 3.17%

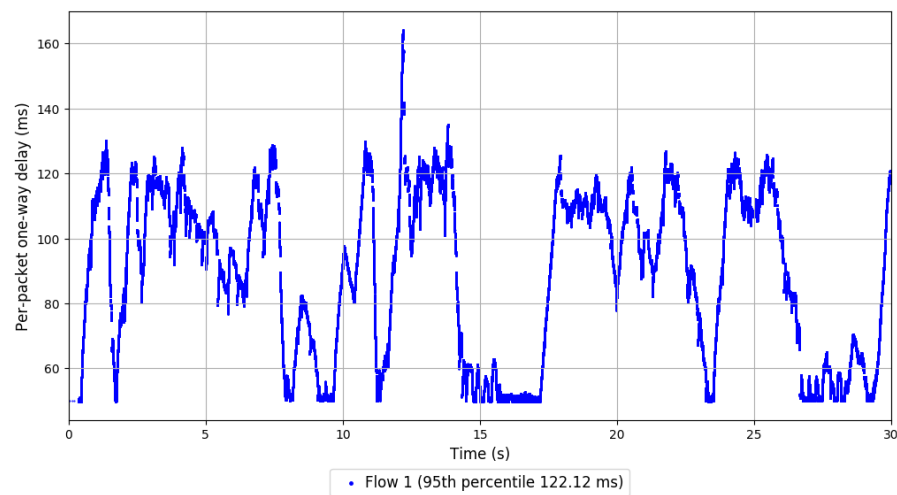
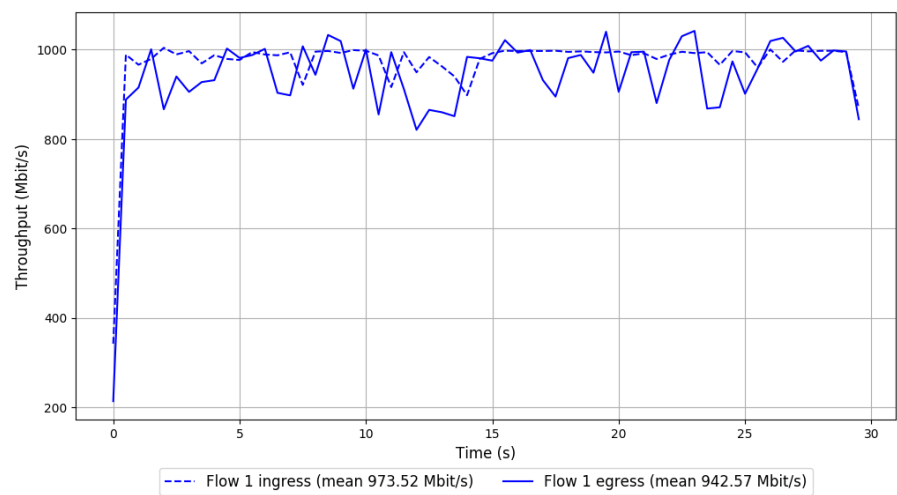
-- Flow 1:

Average throughput: 942.57 Mbit/s

95th percentile per-packet one-way delay: 122.120 ms

Loss rate: 3.17%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-16 18:18:10

End at: 2018-01-16 18:18:40

Below is generated by plot.py at 2018-01-16 21:30:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 946.05 Mbit/s

95th percentile per-packet one-way delay: 120.285 ms

Loss rate: 3.11%

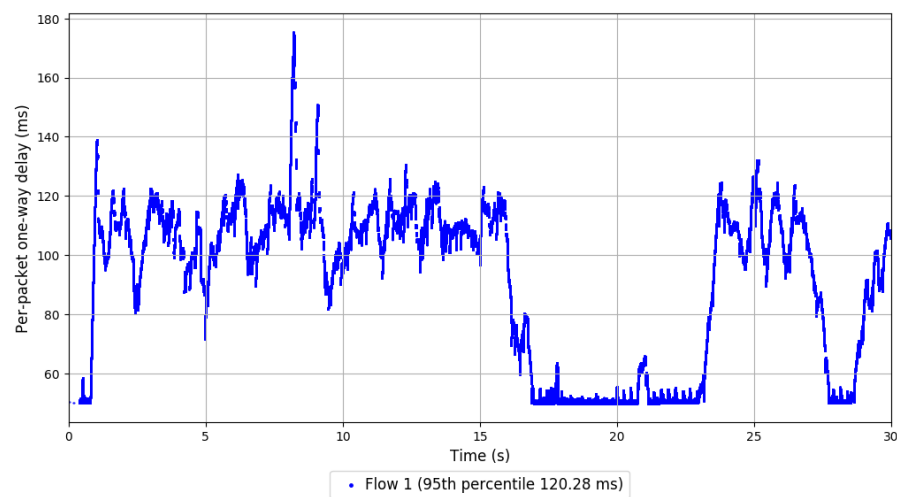
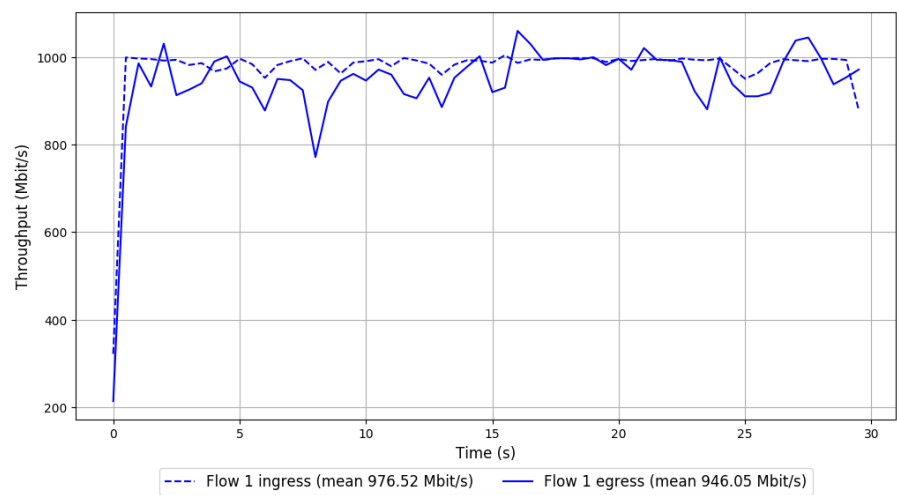
-- Flow 1:

Average throughput: 946.05 Mbit/s

95th percentile per-packet one-way delay: 120.285 ms

Loss rate: 3.11%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-16 18:32:09

End at: 2018-01-16 18:32:39

Below is generated by plot.py at 2018-01-16 21:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 964.68 Mbit/s

95th percentile per-packet one-way delay: 117.446 ms

Loss rate: 0.89%

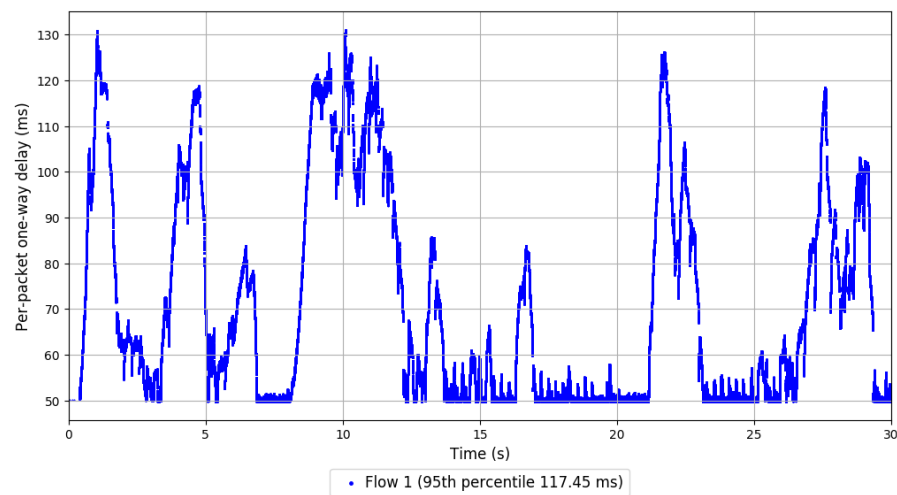
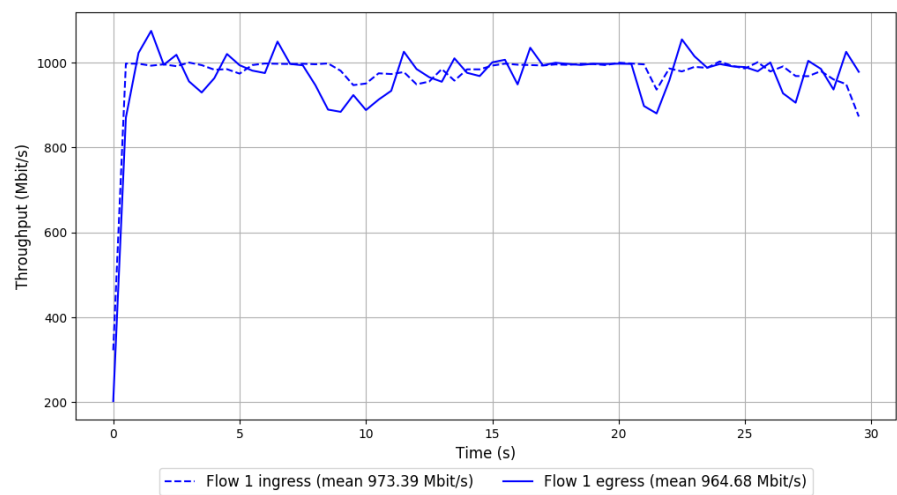
-- Flow 1:

Average throughput: 964.68 Mbit/s

95th percentile per-packet one-way delay: 117.446 ms

Loss rate: 0.89%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-16 18:46:37

End at: 2018-01-16 18:47:08

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.84 Mbit/s

95th percentile per-packet one-way delay: 120.068 ms

Loss rate: 2.53%

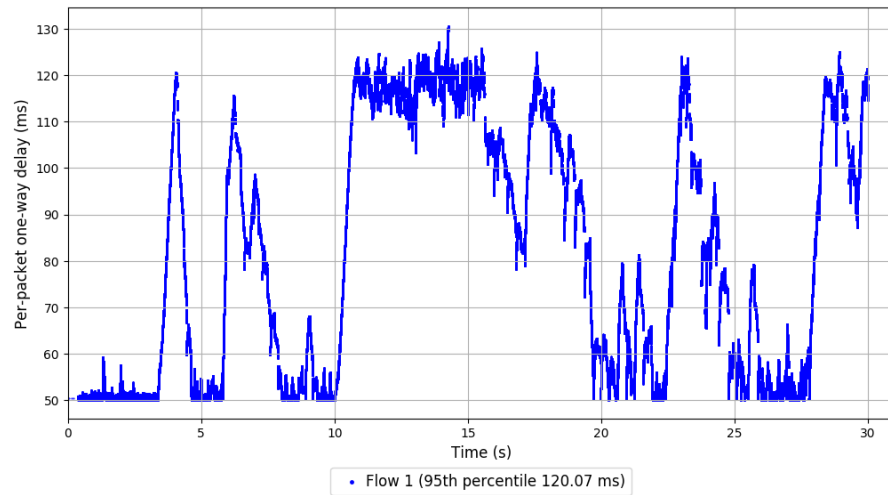
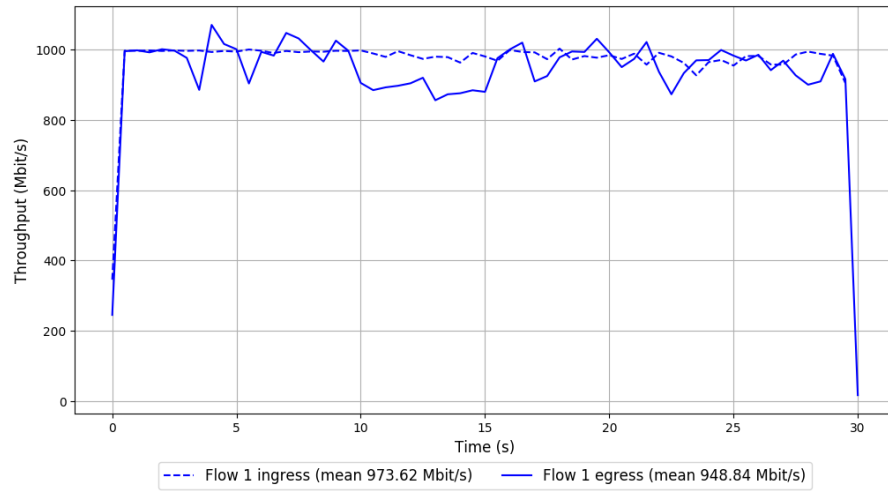
-- Flow 1:

Average throughput: 948.84 Mbit/s

95th percentile per-packet one-way delay: 120.068 ms

Loss rate: 2.53%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-16 19:00:40

End at: 2018-01-16 19:01:10

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 667.58 Mbit/s

95th percentile per-packet one-way delay: 132.133 ms

Loss rate: 7.95%

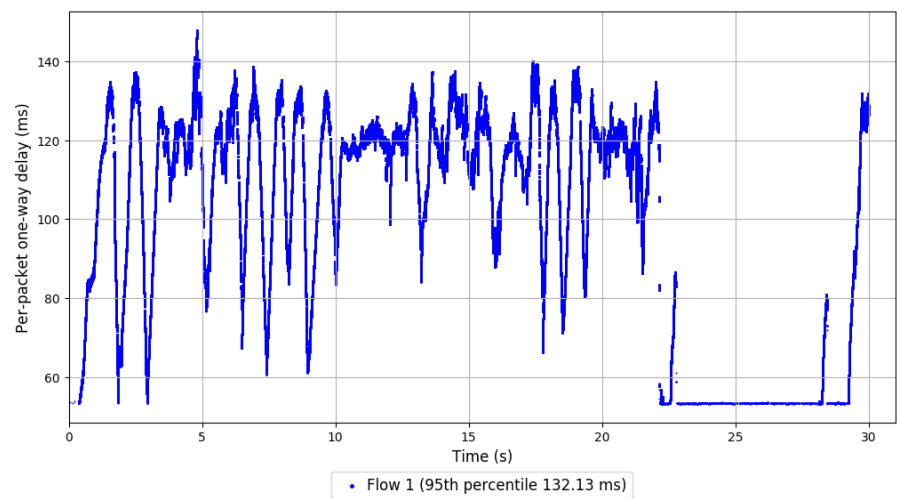
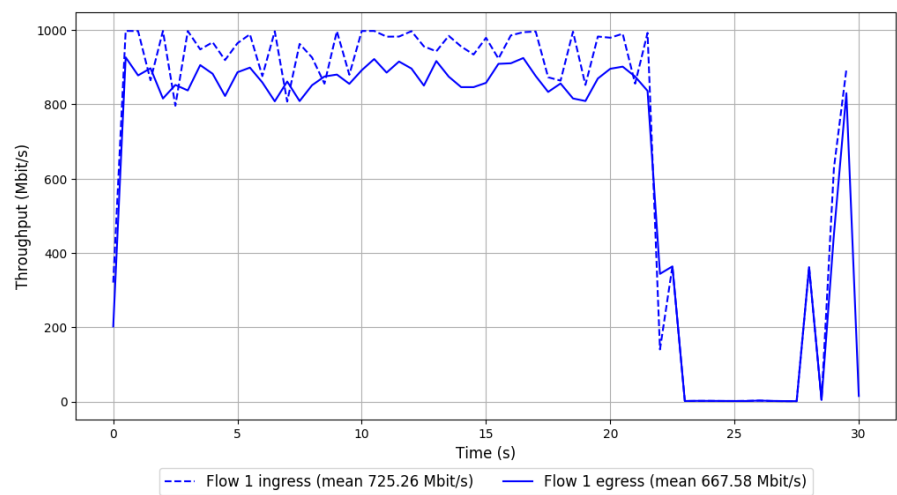
-- Flow 1:

Average throughput: 667.58 Mbit/s

95th percentile per-packet one-way delay: 132.133 ms

Loss rate: 7.95%

Run 10: Report of FillP — Data Link

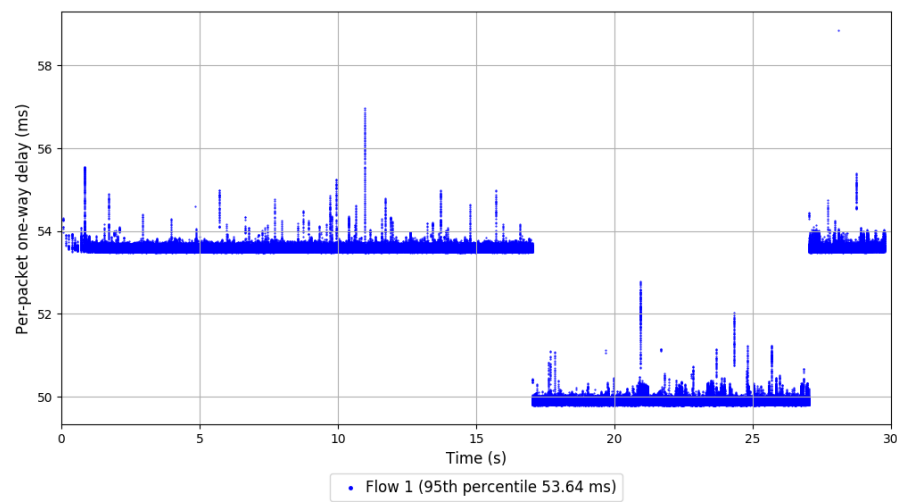
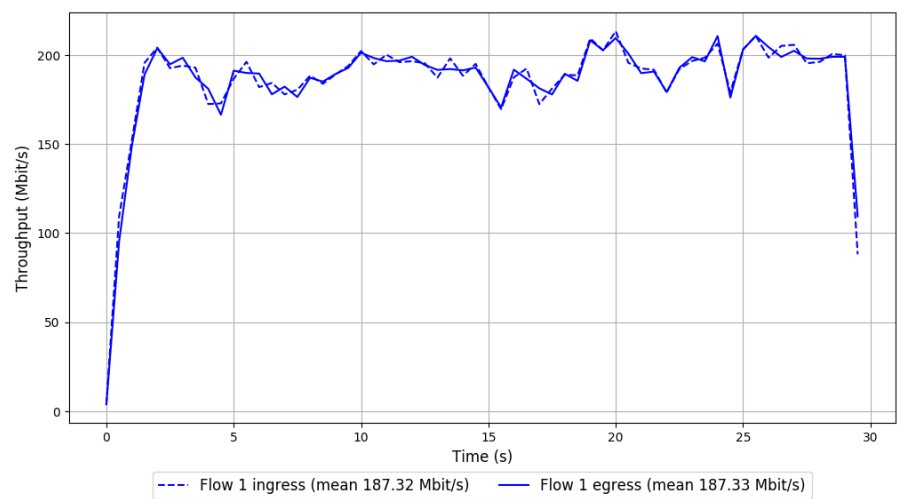


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 16:57:04
End at: 2018-01-16 16:57:34

# Below is generated by plot.py at 2018-01-16 21:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.33 Mbit/s
95th percentile per-packet one-way delay: 53.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.33 Mbit/s
95th percentile per-packet one-way delay: 53.640 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-16 17:10:55

End at: 2018-01-16 17:11:25

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.32 Mbit/s

95th percentile per-packet one-way delay: 53.547 ms

Loss rate: 0.00%

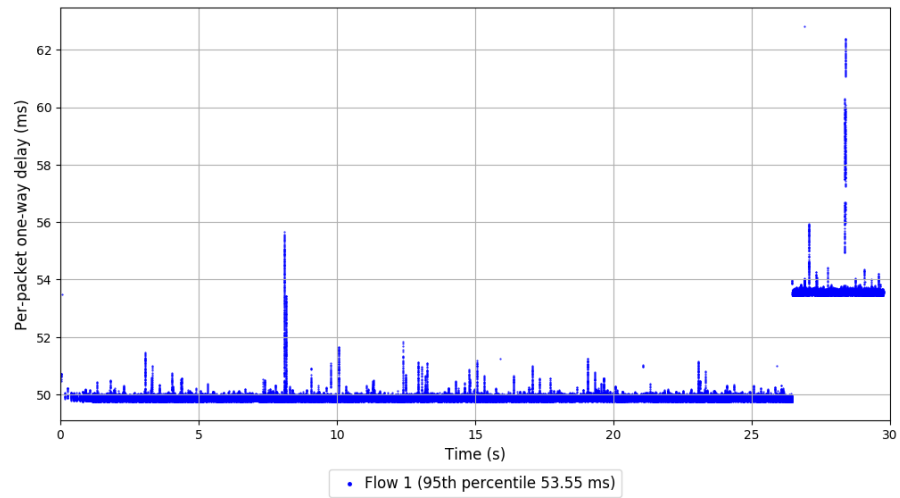
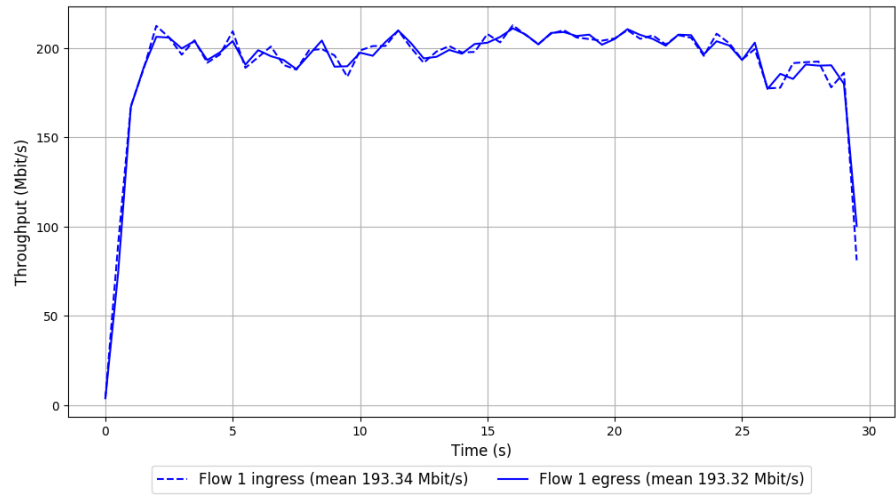
-- Flow 1:

Average throughput: 193.32 Mbit/s

95th percentile per-packet one-way delay: 53.547 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 17:24:56

End at: 2018-01-16 17:25:26

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.41 Mbit/s

95th percentile per-packet one-way delay: 53.035 ms

Loss rate: 0.00%

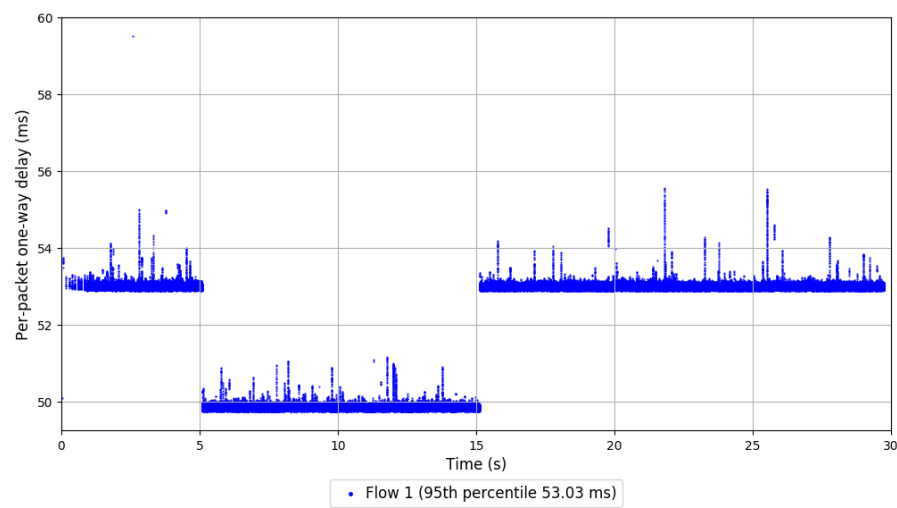
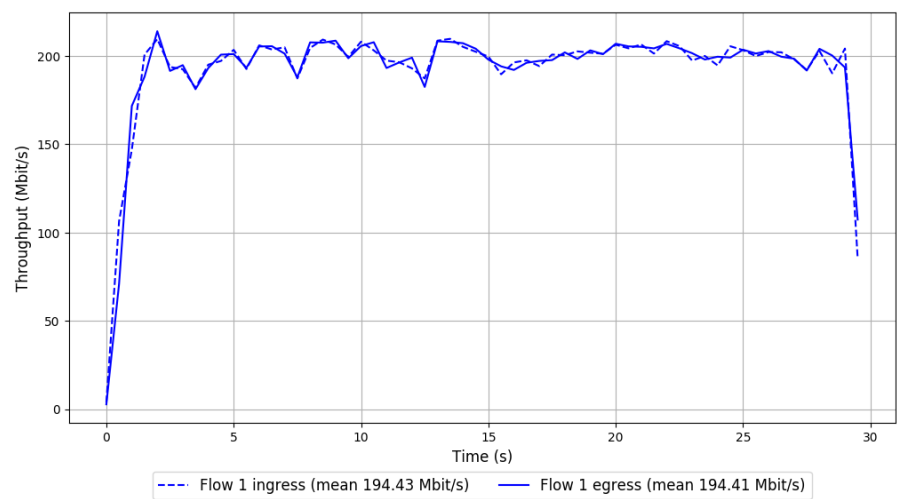
-- Flow 1:

Average throughput: 194.41 Mbit/s

95th percentile per-packet one-way delay: 53.035 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-16 17:39:15

End at: 2018-01-16 17:39:45

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.14 Mbit/s

95th percentile per-packet one-way delay: 53.066 ms

Loss rate: 0.00%

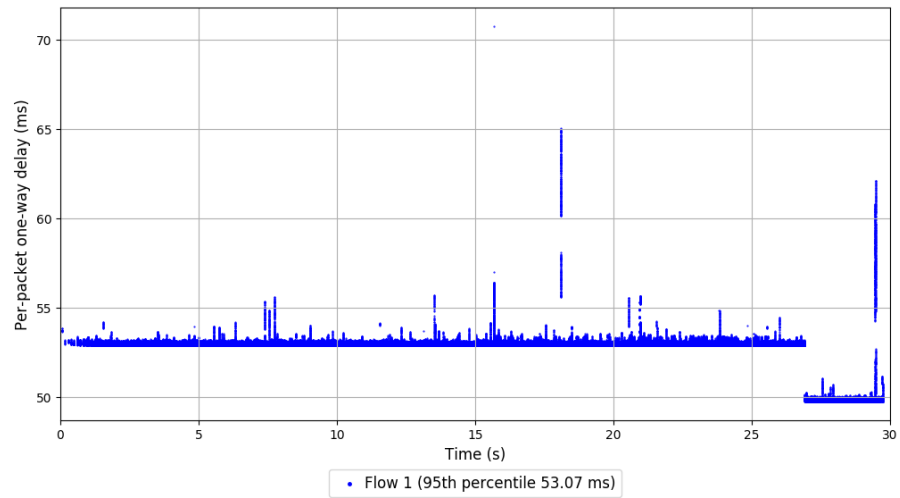
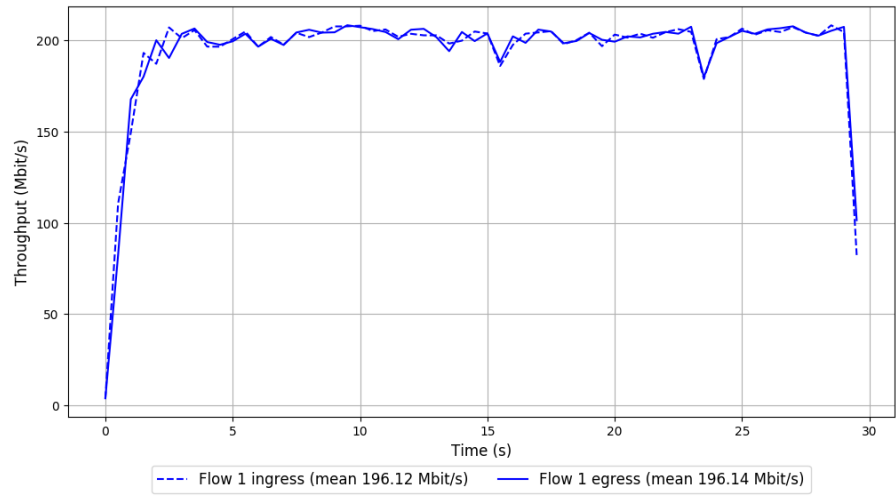
-- Flow 1:

Average throughput: 196.14 Mbit/s

95th percentile per-packet one-way delay: 53.066 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-16 17:53:25

End at: 2018-01-16 17:53:55

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.14 Mbit/s

95th percentile per-packet one-way delay: 53.021 ms

Loss rate: 0.00%

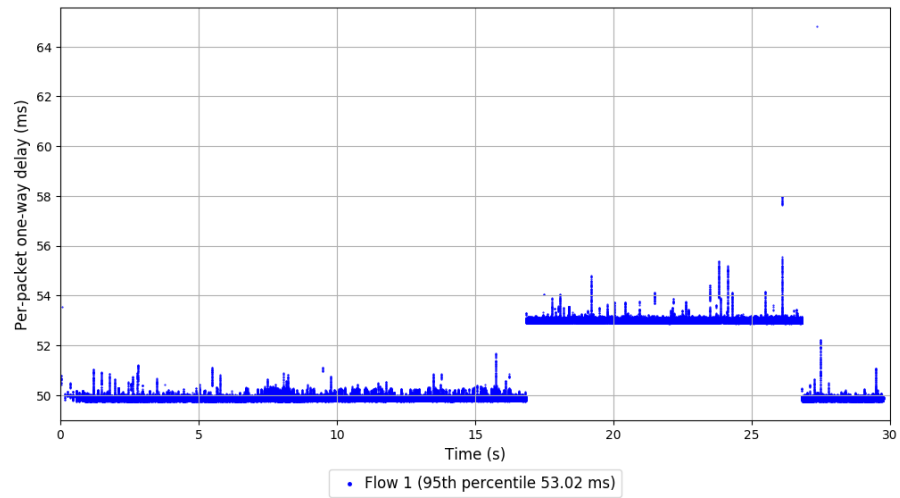
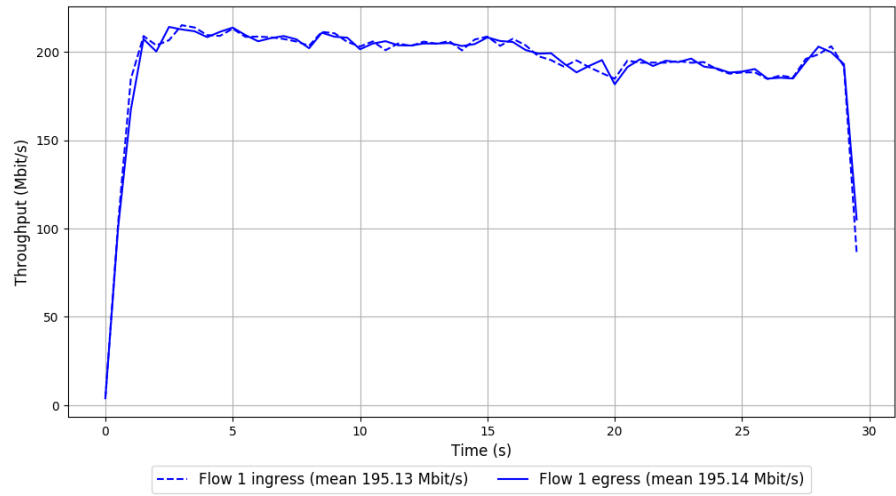
-- Flow 1:

Average throughput: 195.14 Mbit/s

95th percentile per-packet one-way delay: 53.021 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-16 18:07:47

End at: 2018-01-16 18:08:17

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.68 Mbit/s

95th percentile per-packet one-way delay: 53.080 ms

Loss rate: 0.00%

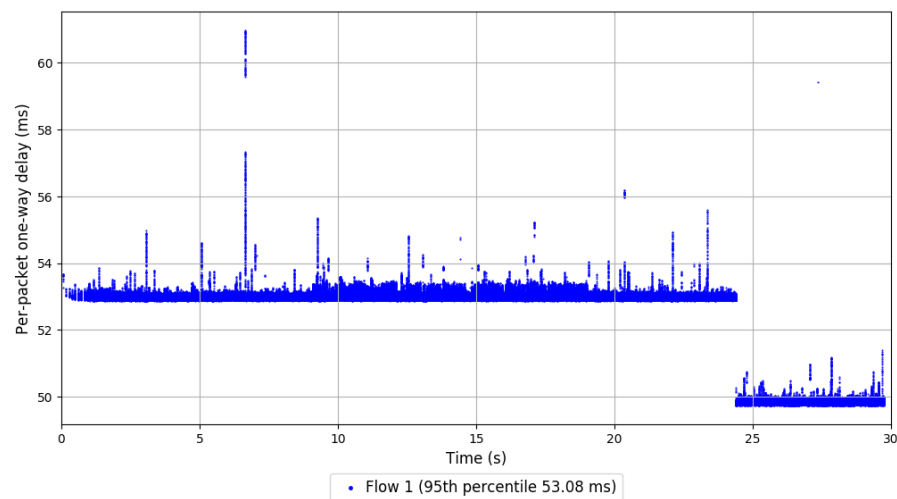
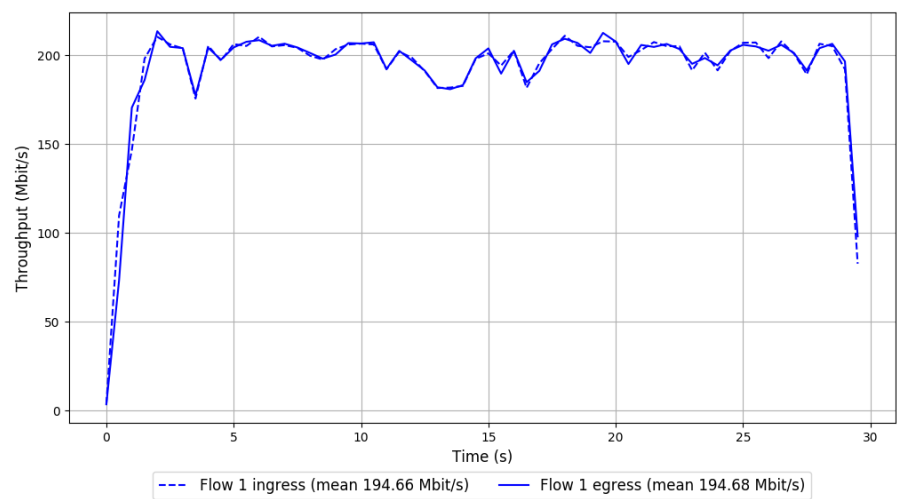
-- Flow 1:

Average throughput: 194.68 Mbit/s

95th percentile per-packet one-way delay: 53.080 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-16 18:21:30

End at: 2018-01-16 18:22:00

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.04 Mbit/s

95th percentile per-packet one-way delay: 53.590 ms

Loss rate: 0.00%

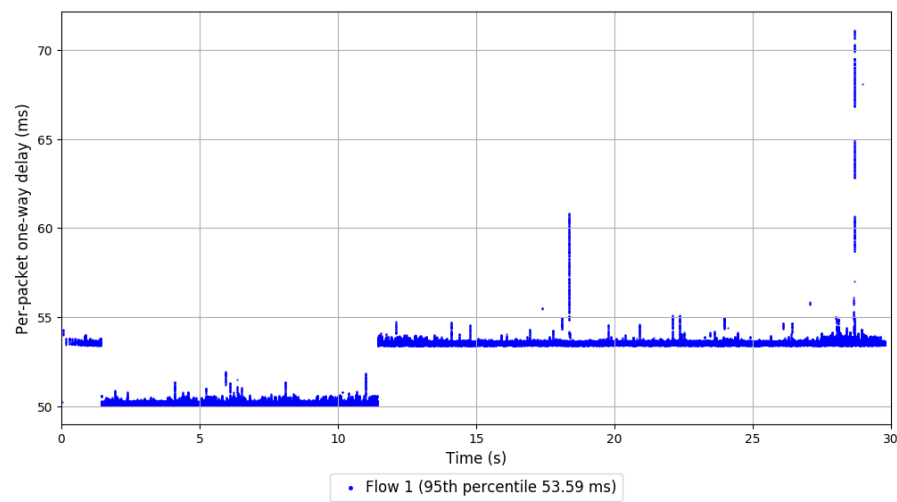
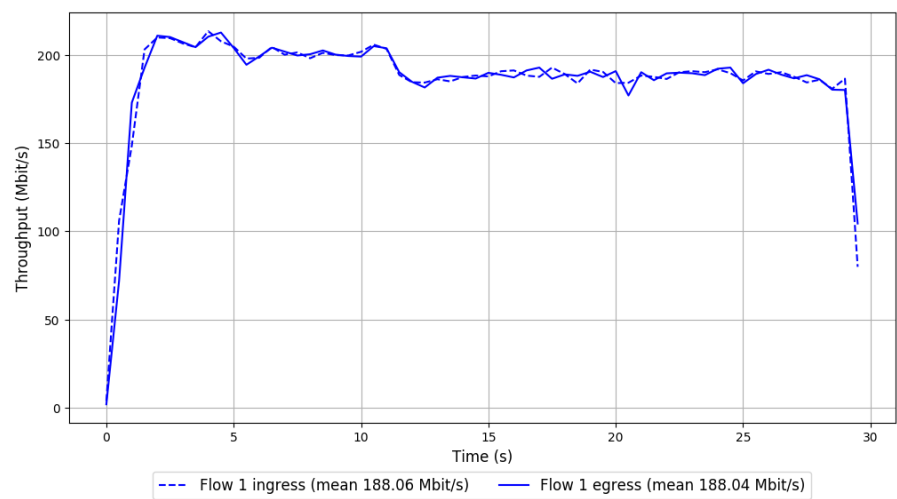
-- Flow 1:

Average throughput: 188.04 Mbit/s

95th percentile per-packet one-way delay: 53.590 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-16 18:35:48

End at: 2018-01-16 18:36:18

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.84 Mbit/s

95th percentile per-packet one-way delay: 53.573 ms

Loss rate: 0.04%

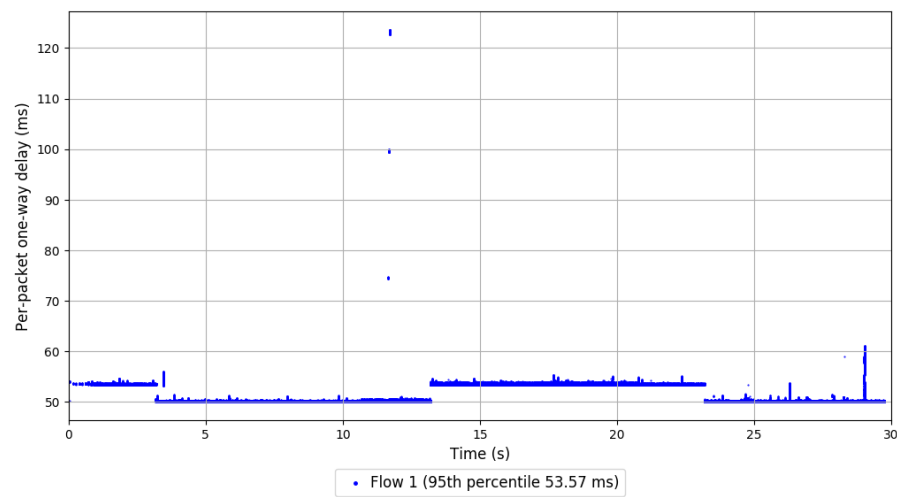
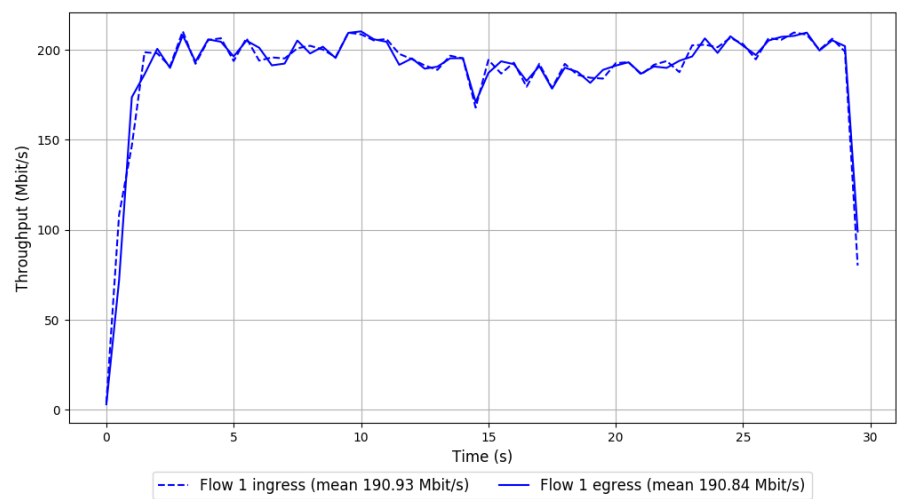
-- Flow 1:

Average throughput: 190.84 Mbit/s

95th percentile per-packet one-way delay: 53.573 ms

Loss rate: 0.04%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-16 18:50:20

End at: 2018-01-16 18:50:50

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.37 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.00%

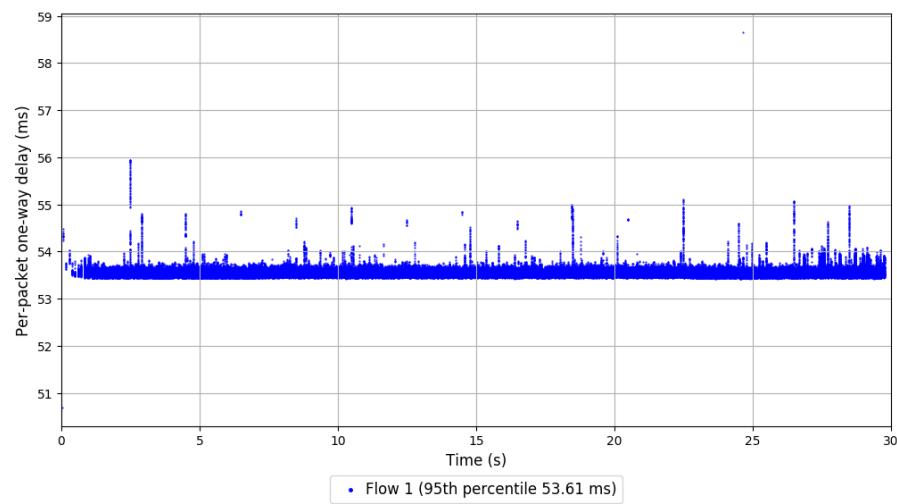
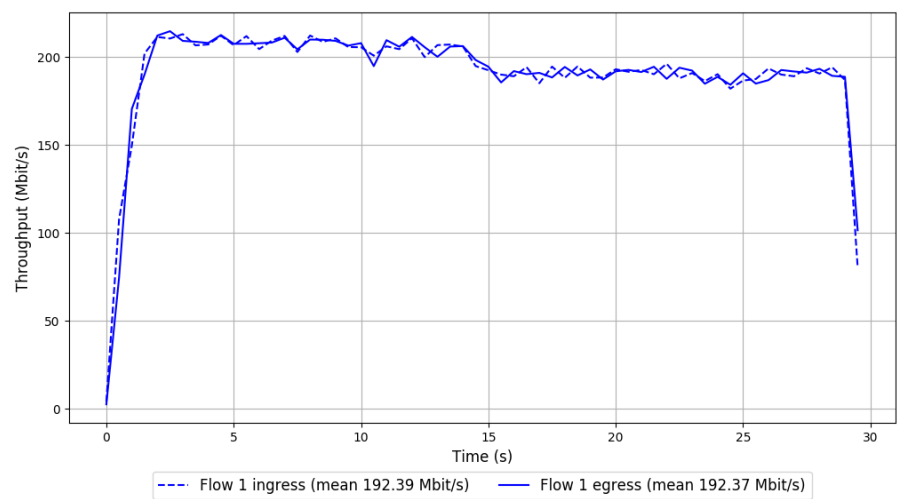
-- Flow 1:

Average throughput: 192.37 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-16 19:04:06

End at: 2018-01-16 19:04:36

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.22 Mbit/s

95th percentile per-packet one-way delay: 53.619 ms

Loss rate: 0.00%

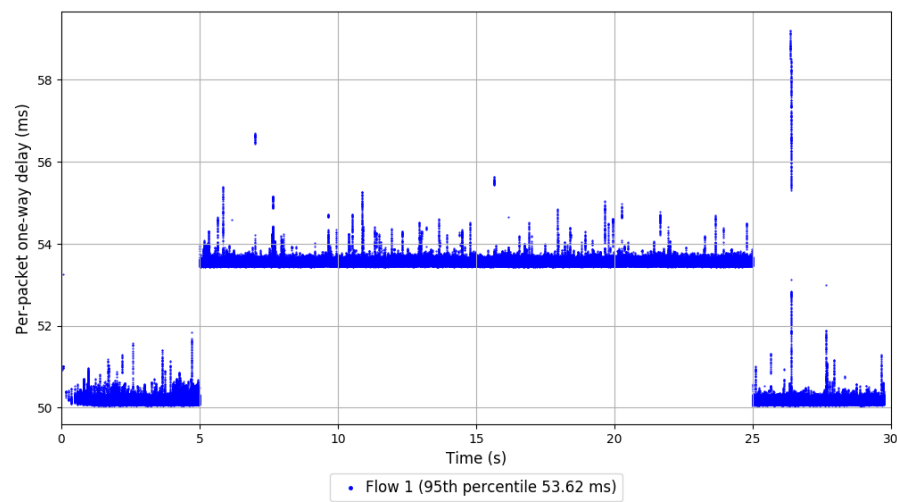
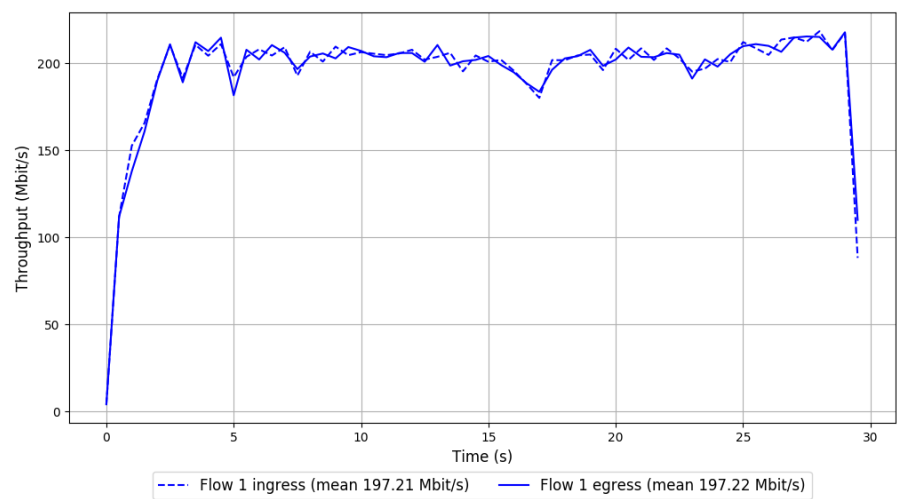
-- Flow 1:

Average throughput: 197.22 Mbit/s

95th percentile per-packet one-way delay: 53.619 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

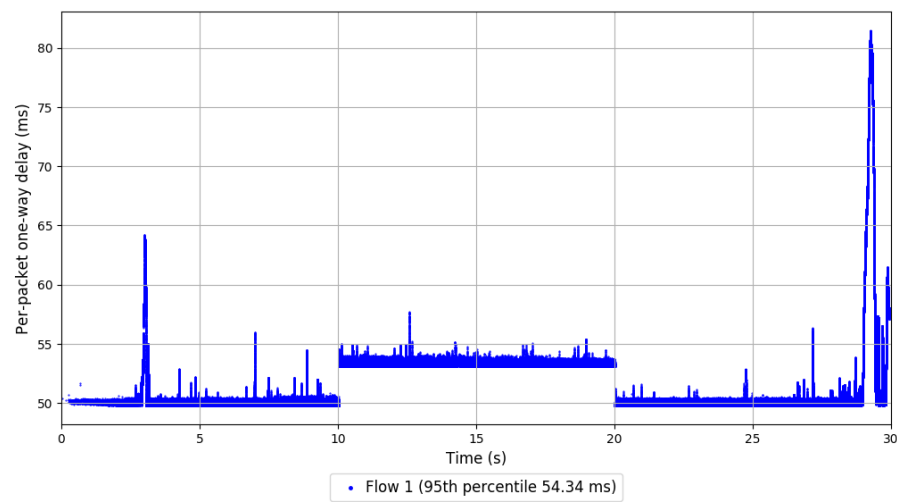
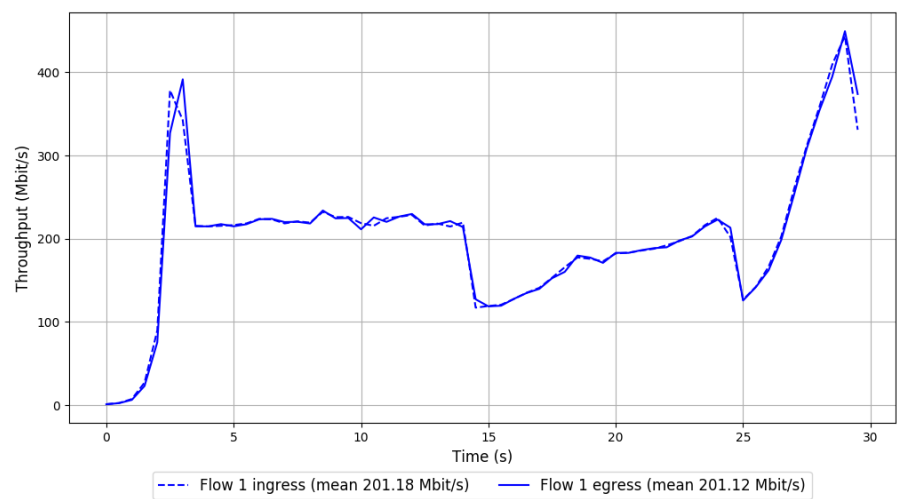


```
Run 1: Statistics of Vivace-latency

Start at: 2018-01-16 17:02:22
End at: 2018-01-16 17:02:52

# Below is generated by plot.py at 2018-01-16 21:42:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.12 Mbit/s
95th percentile per-packet one-way delay: 54.341 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 201.12 Mbit/s
95th percentile per-packet one-way delay: 54.341 ms
Loss rate: 0.02%
```


Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 17:16:22

End at: 2018-01-16 17:16:52

Below is generated by plot.py at 2018-01-16 21:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.00%

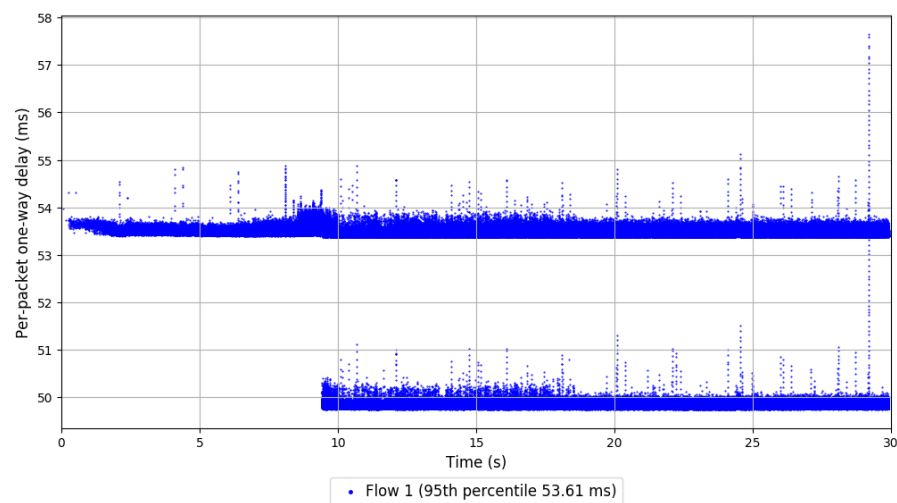
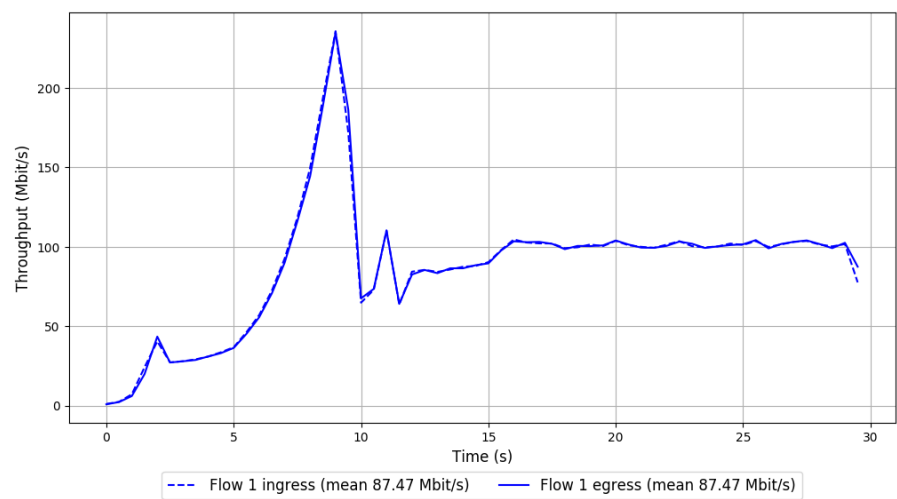
-- Flow 1:

Average throughput: 87.47 Mbit/s

95th percentile per-packet one-way delay: 53.614 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 17:30:24

End at: 2018-01-16 17:30:54

Below is generated by plot.py at 2018-01-16 21:45:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.07 Mbit/s

95th percentile per-packet one-way delay: 53.066 ms

Loss rate: 0.00%

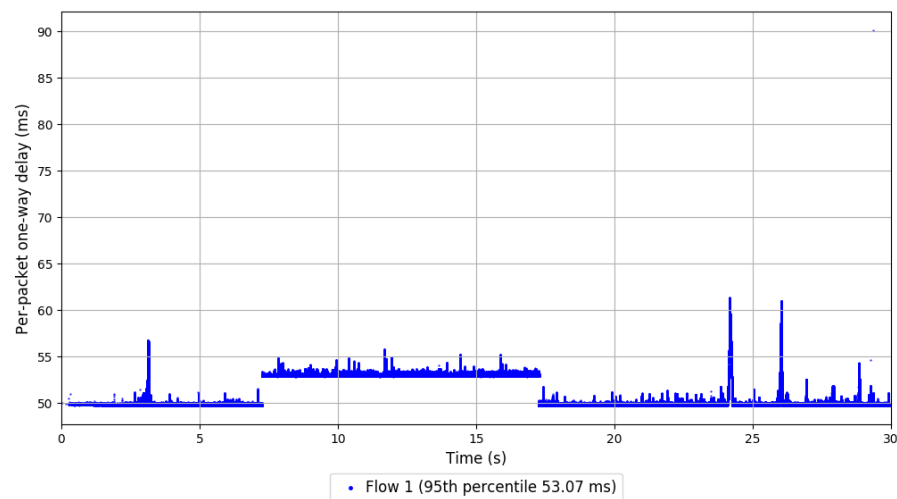
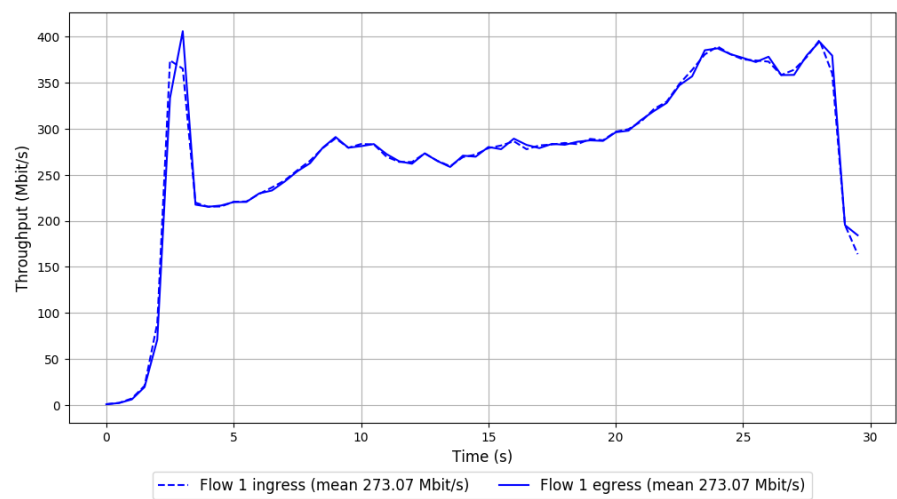
-- Flow 1:

Average throughput: 273.07 Mbit/s

95th percentile per-packet one-way delay: 53.066 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-16 17:44:45

End at: 2018-01-16 17:45:15

Below is generated by plot.py at 2018-01-16 21:45:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.76 Mbit/s

95th percentile per-packet one-way delay: 59.107 ms

Loss rate: 0.05%

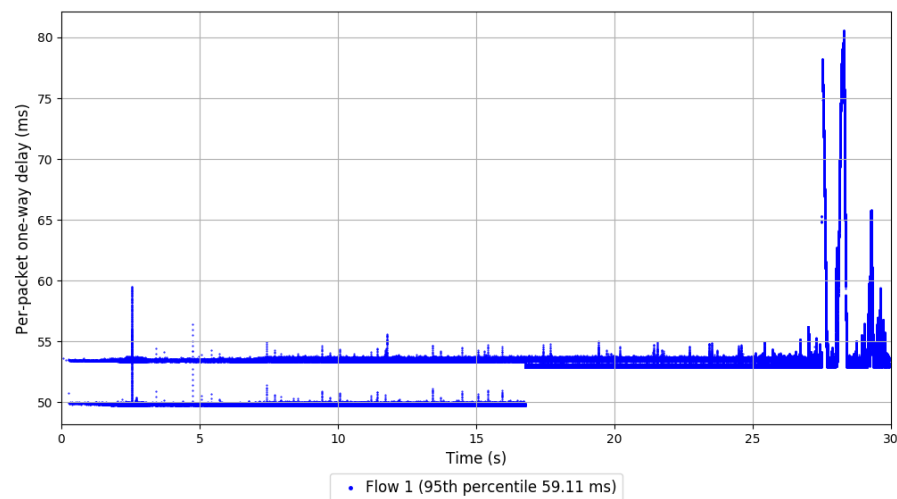
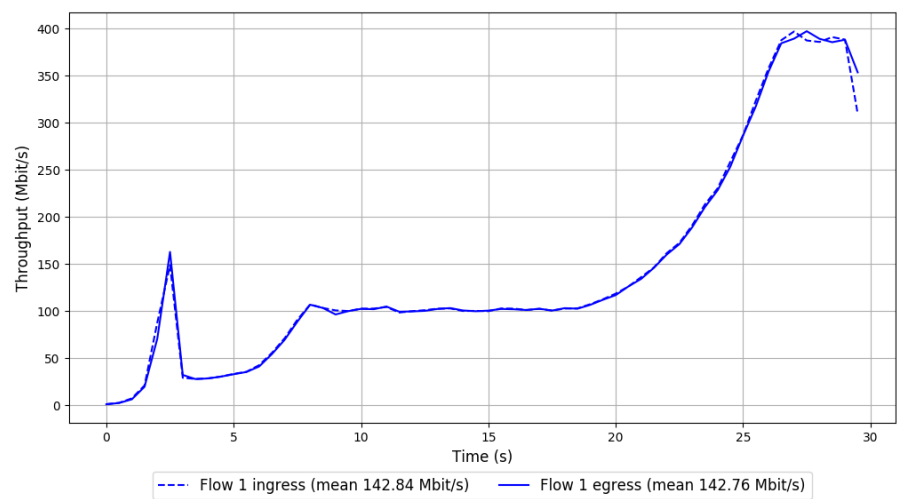
-- Flow 1:

Average throughput: 142.76 Mbit/s

95th percentile per-packet one-way delay: 59.107 ms

Loss rate: 0.05%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-16 17:59:00

End at: 2018-01-16 17:59:30

Below is generated by plot.py at 2018-01-16 21:45:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.00%

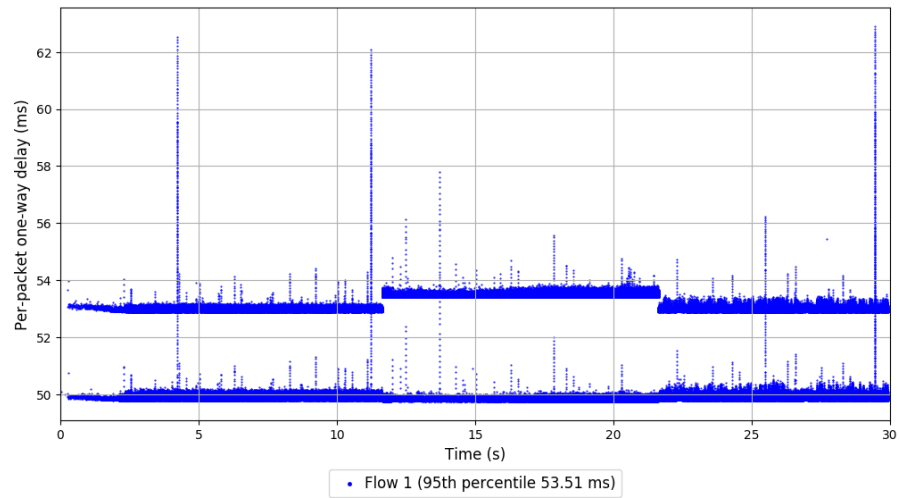
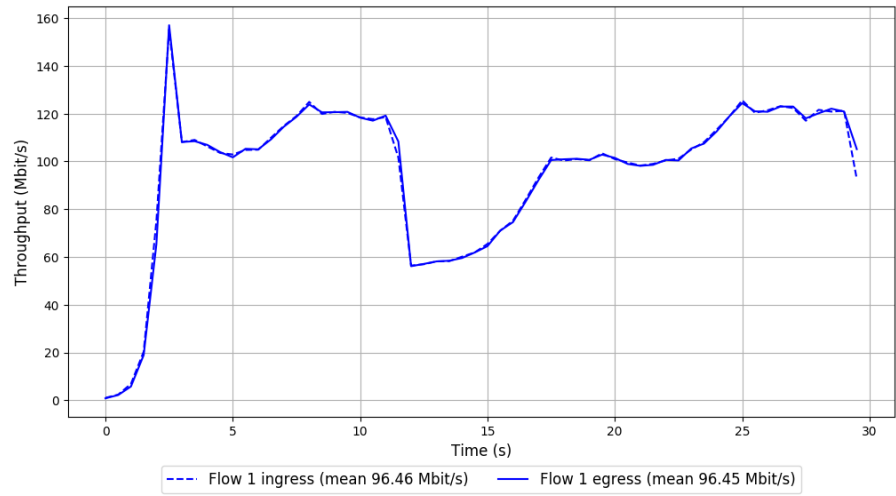
-- Flow 1:

Average throughput: 96.45 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-16 18:12:59

End at: 2018-01-16 18:13:29

Below is generated by plot.py at 2018-01-16 21:45:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.59 Mbit/s

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

Loss rate: 0.00%

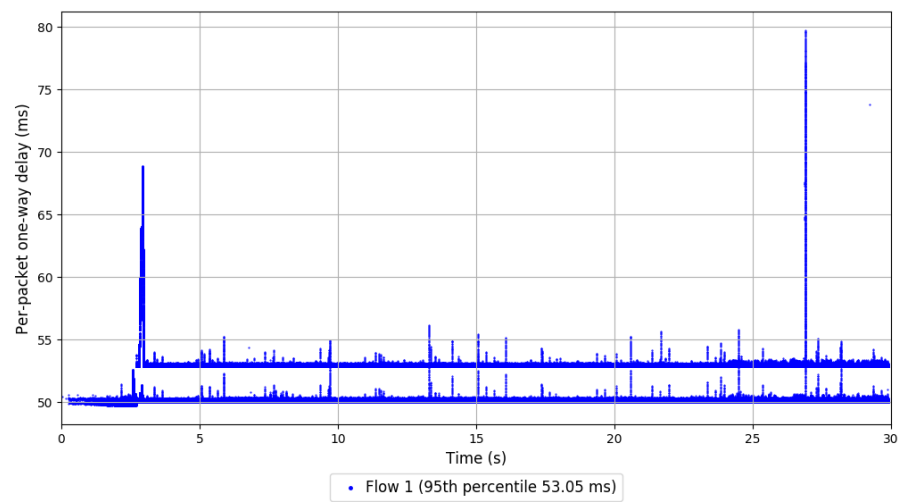
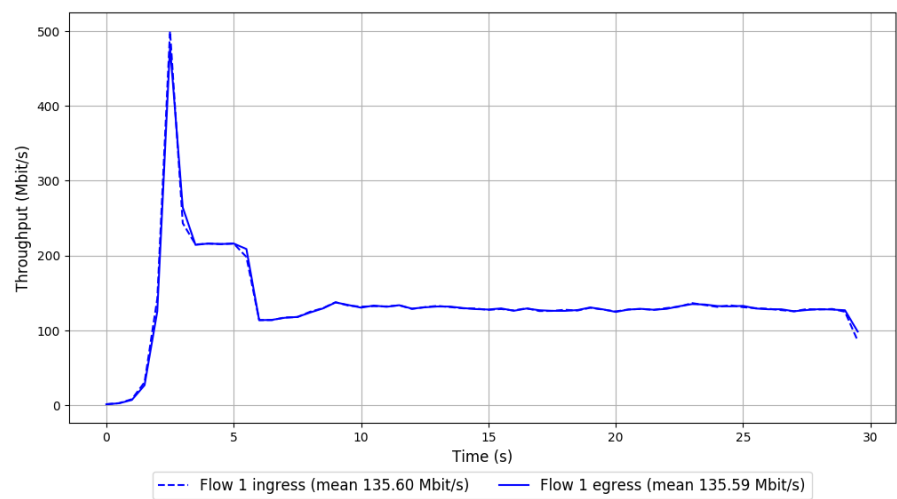
-- Flow 1:

Average throughput: 135.59 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-16 18:26:56

End at: 2018-01-16 18:27:26

Below is generated by plot.py at 2018-01-16 21:45:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.05 Mbit/s

95th percentile per-packet one-way delay: 53.528 ms

Loss rate: 0.00%

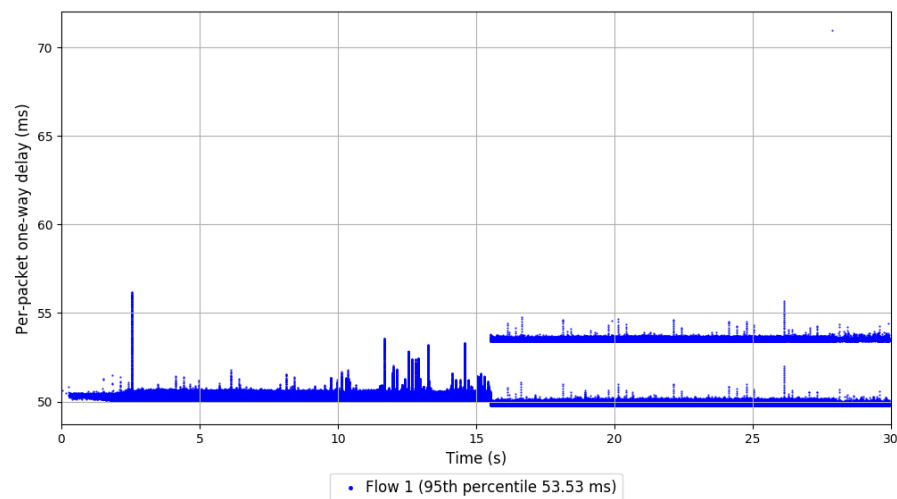
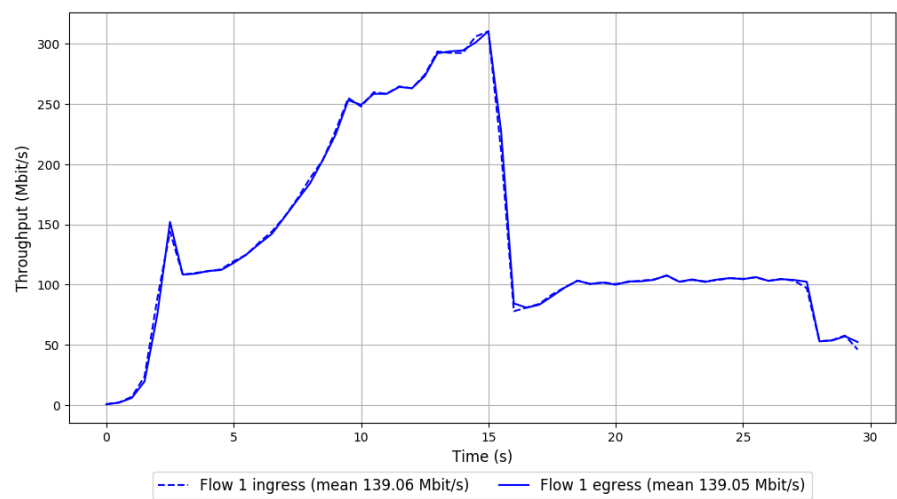
-- Flow 1:

Average throughput: 139.05 Mbit/s

95th percentile per-packet one-way delay: 53.528 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-16 18:41:16

End at: 2018-01-16 18:41:46

Below is generated by plot.py at 2018-01-16 21:47:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.33 Mbit/s

95th percentile per-packet one-way delay: 58.176 ms

Loss rate: 0.00%

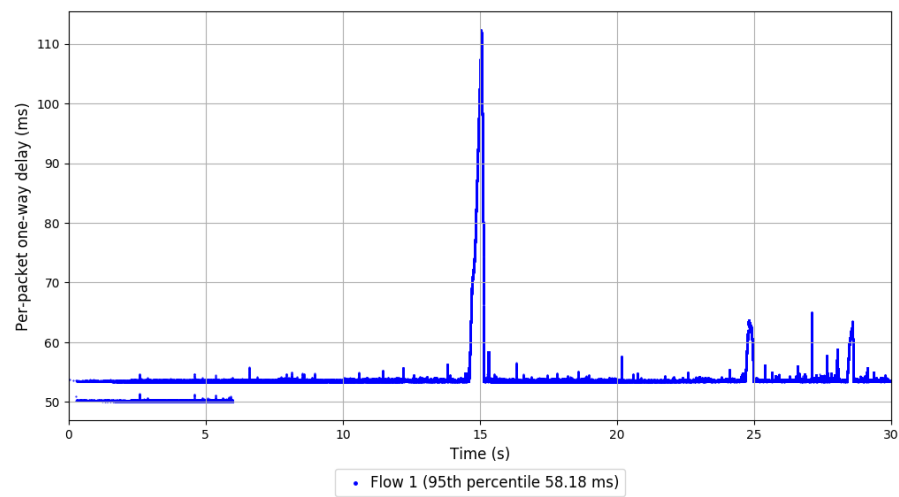
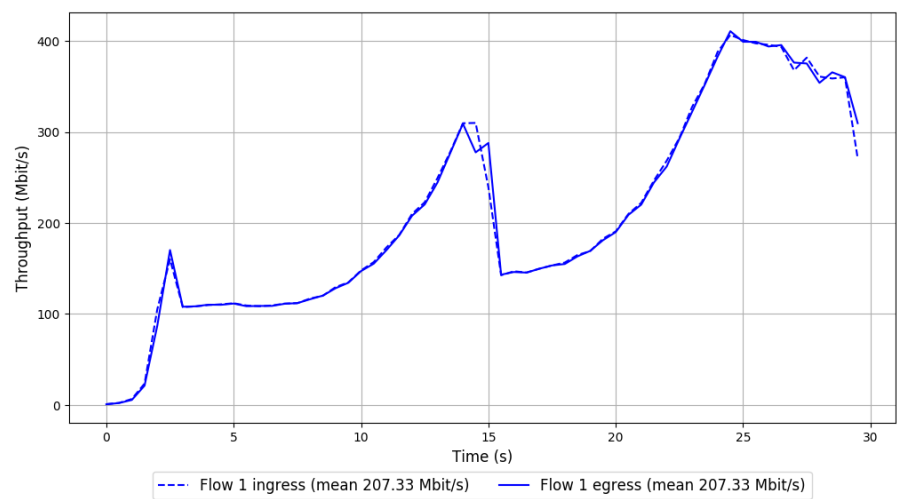
-- Flow 1:

Average throughput: 207.33 Mbit/s

95th percentile per-packet one-way delay: 58.176 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-16 18:55:27

End at: 2018-01-16 18:55:57

Below is generated by plot.py at 2018-01-16 21:47:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.62 Mbit/s

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

Loss rate: 0.00%

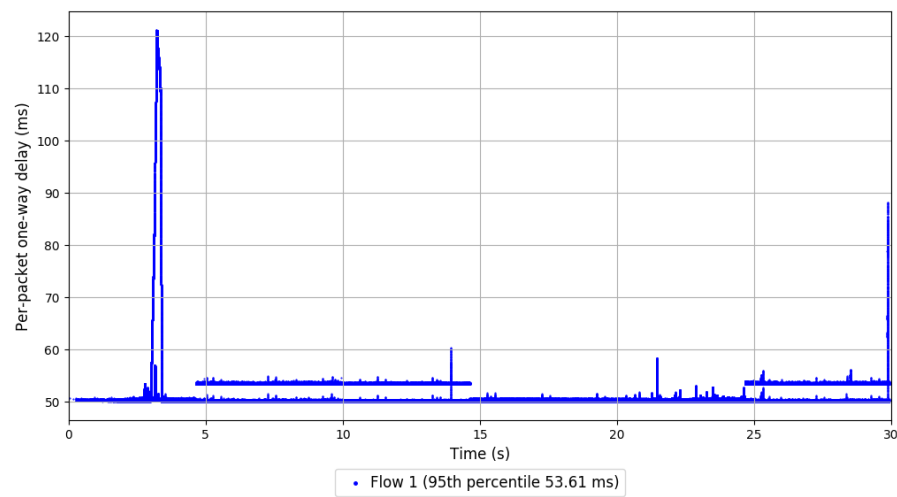
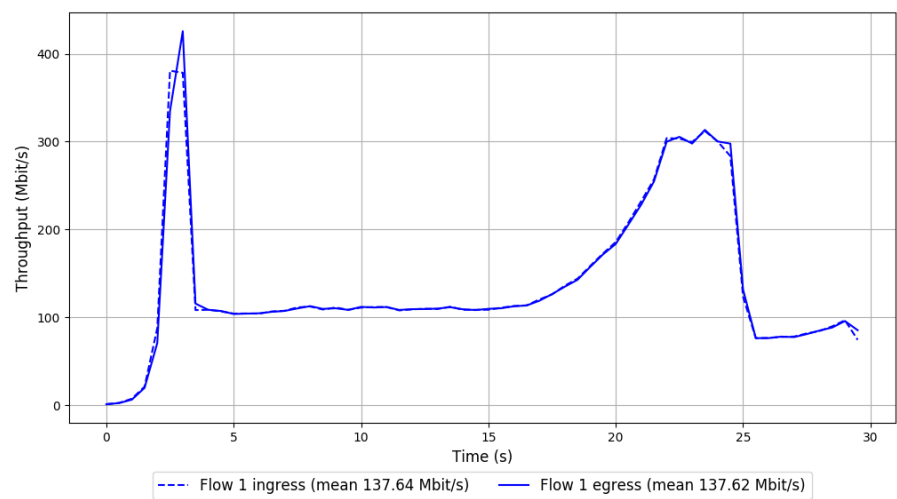
-- Flow 1:

Average throughput: 137.62 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-16 19:09:27

End at: 2018-01-16 19:09:57

Below is generated by plot.py at 2018-01-16 21:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.41 Mbit/s

95th percentile per-packet one-way delay: 54.024 ms

Loss rate: 0.00%

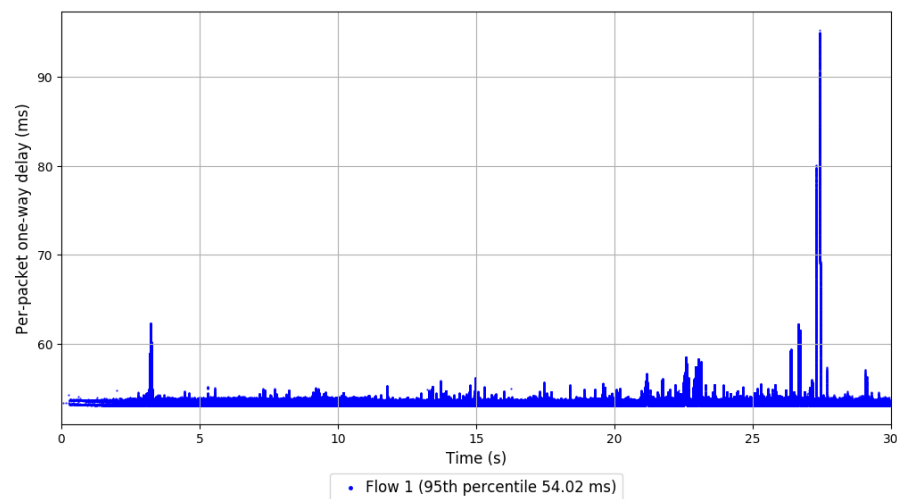
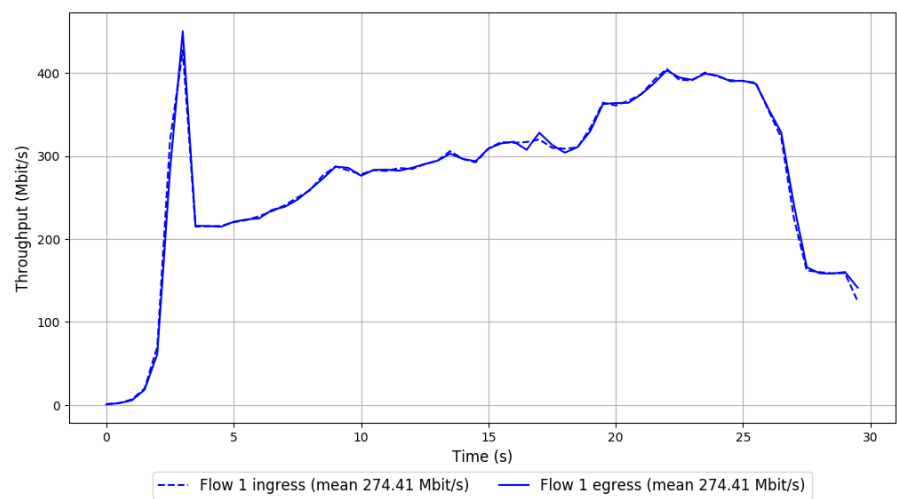
-- Flow 1:

Average throughput: 274.41 Mbit/s

95th percentile per-packet one-way delay: 54.024 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

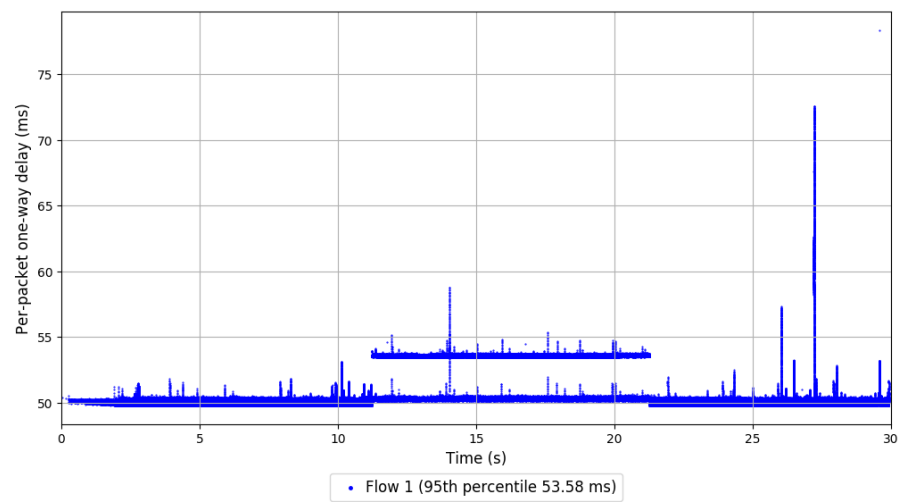
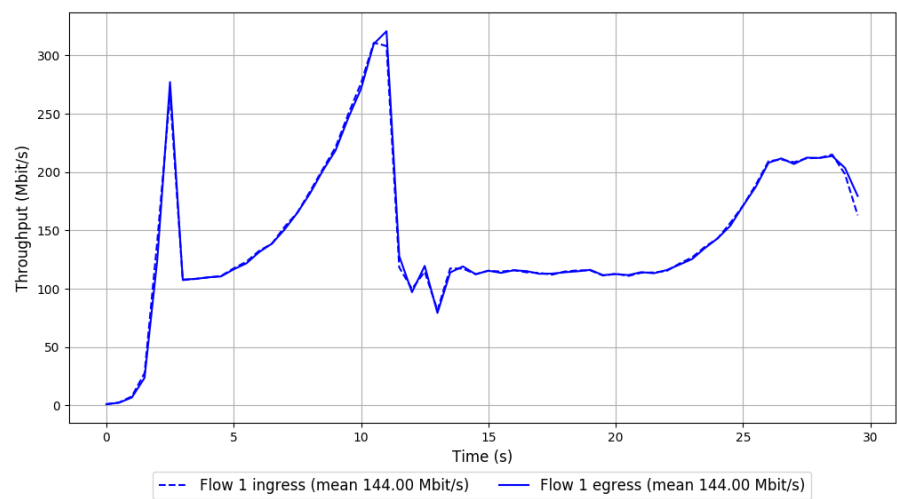


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 17:01:30
End at: 2018-01-16 17:02:00

# Below is generated by plot.py at 2018-01-16 21:50:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 144.00 Mbit/s
95th percentile per-packet one-way delay: 53.578 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.00 Mbit/s
95th percentile per-packet one-way delay: 53.578 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link

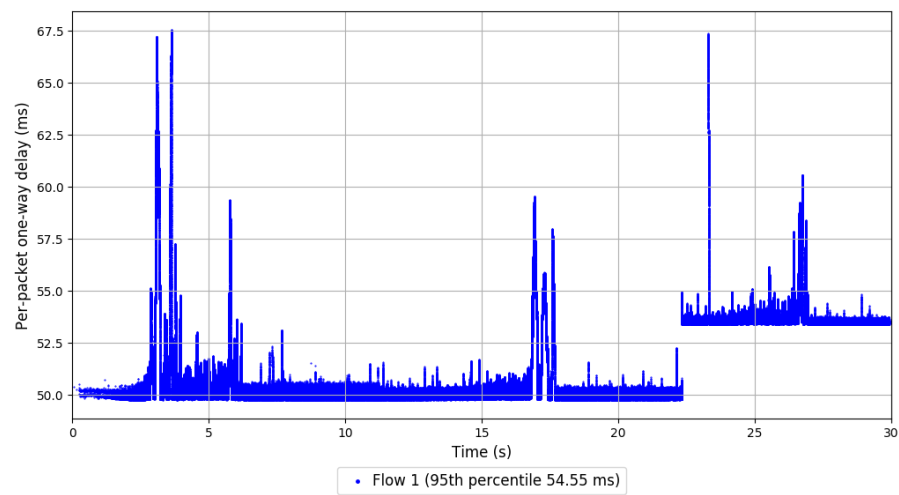
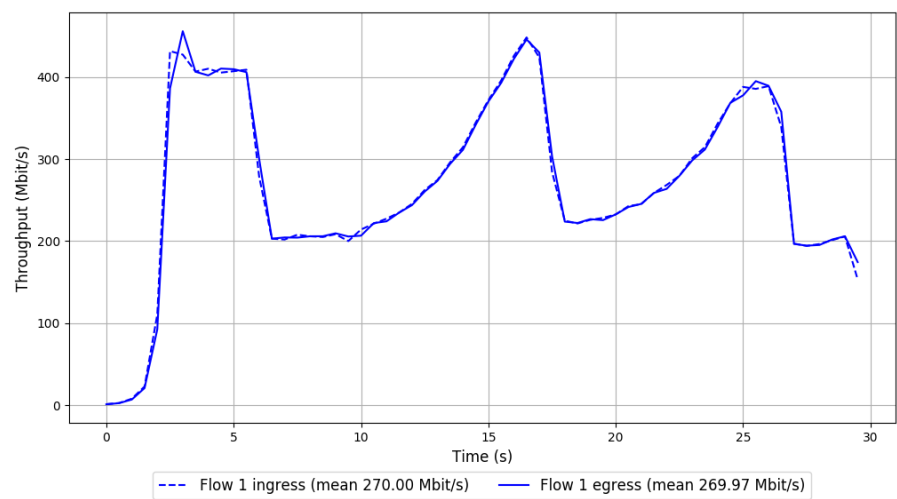


```
Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 17:15:19
End at: 2018-01-16 17:15:49

# Below is generated by plot.py at 2018-01-16 21:50:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.97 Mbit/s
95th percentile per-packet one-way delay: 54.551 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 269.97 Mbit/s
95th percentile per-packet one-way delay: 54.551 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 17:29:38

End at: 2018-01-16 17:30:08

Below is generated by plot.py at 2018-01-16 21:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 53.480 ms

Loss rate: 0.00%

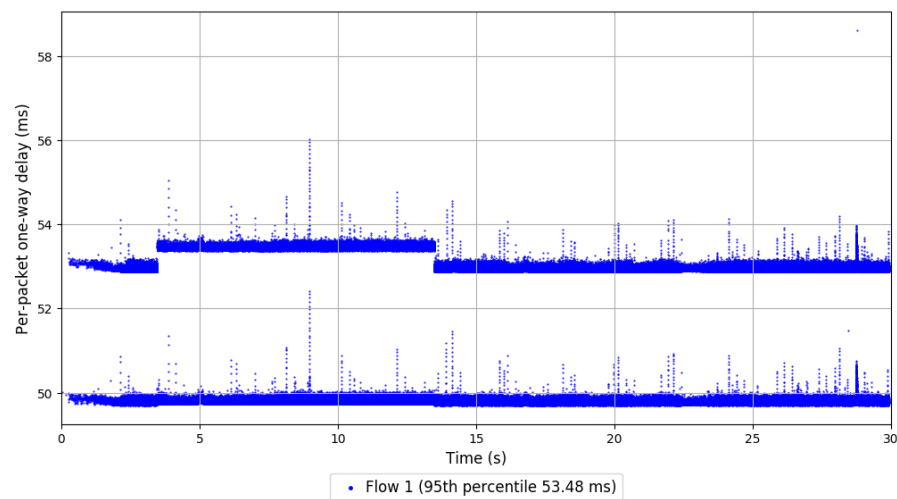
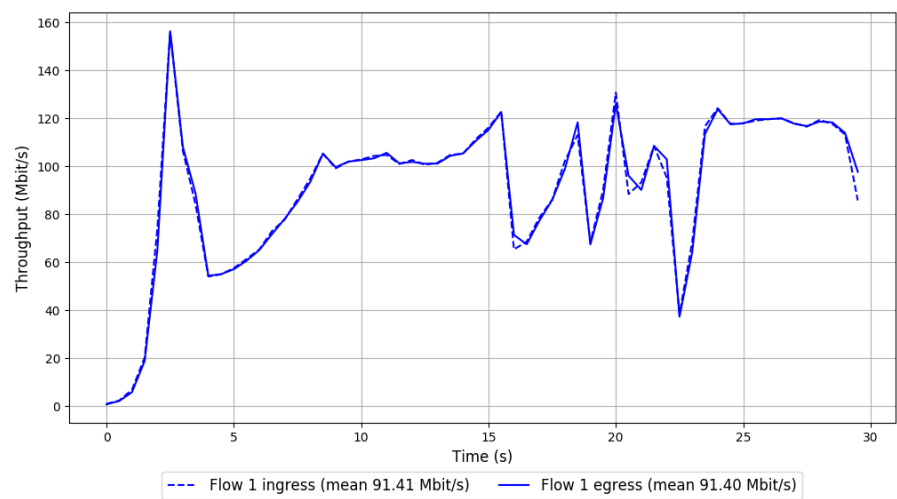
-- Flow 1:

Average throughput: 91.40 Mbit/s

95th percentile per-packet one-way delay: 53.480 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link

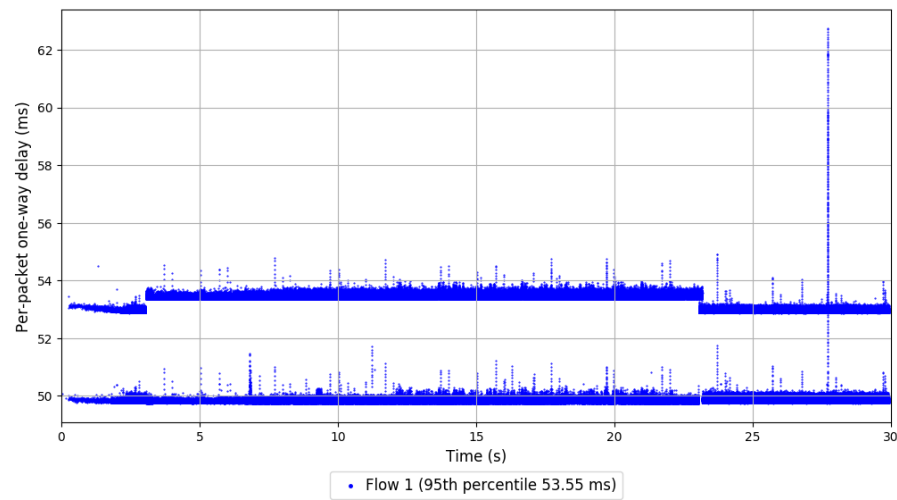
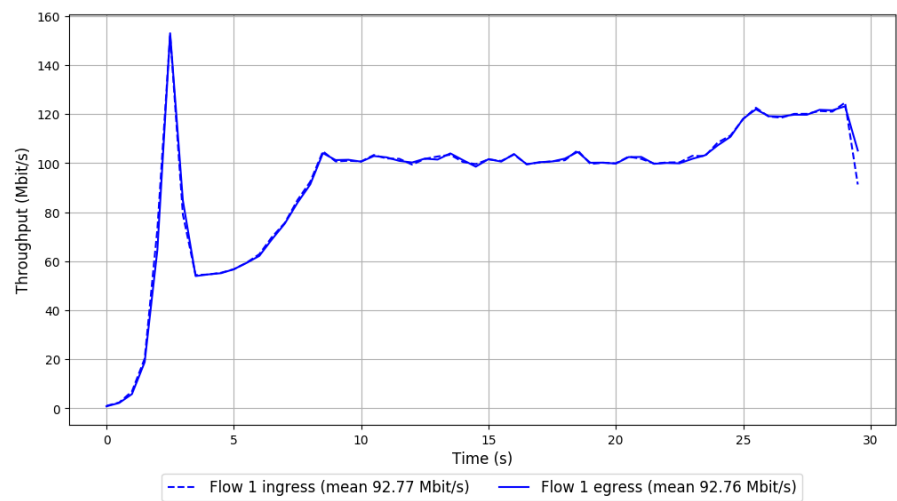


```
Run 4: Statistics of Vivace-loss

Start at: 2018-01-16 17:43:59
End at: 2018-01-16 17:44:29

# Below is generated by plot.py at 2018-01-16 21:50:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 53.547 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 92.76 Mbit/s
95th percentile per-packet one-way delay: 53.547 ms
Loss rate: 0.00%
```

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-16 17:58:13

End at: 2018-01-16 17:58:43

Below is generated by plot.py at 2018-01-16 21:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.93 Mbit/s

95th percentile per-packet one-way delay: 53.225 ms

Loss rate: 0.00%

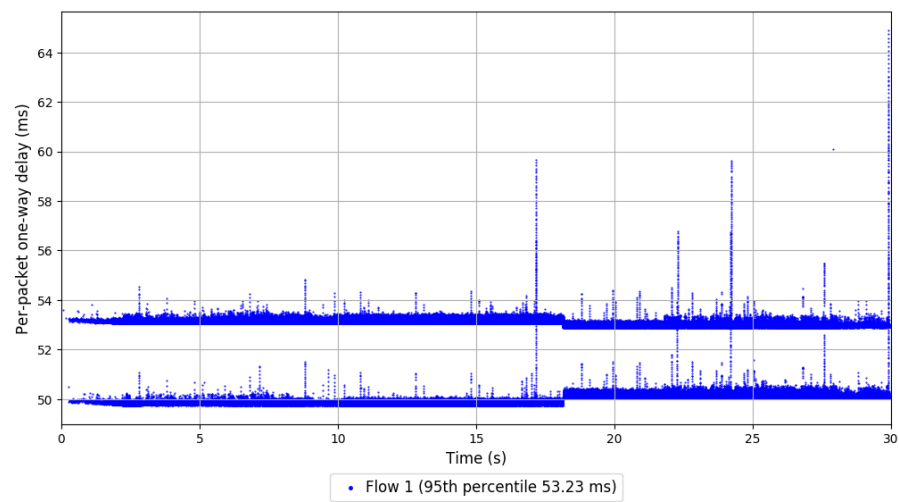
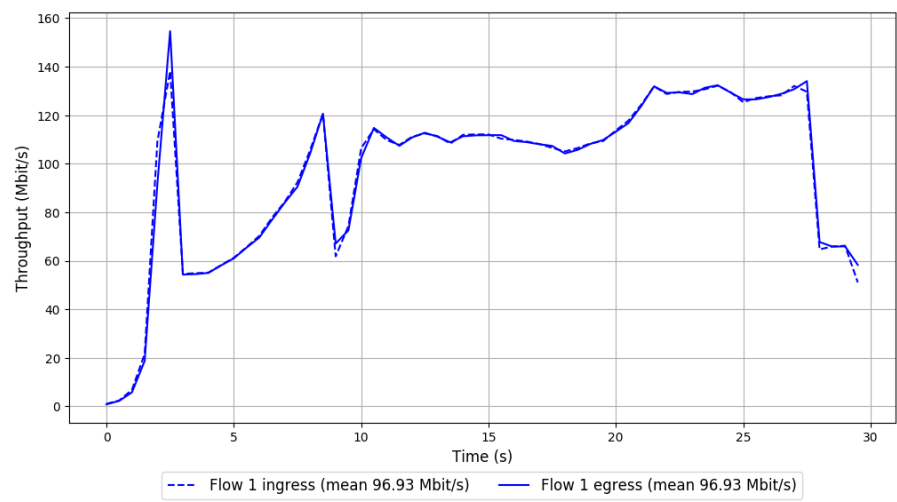
-- Flow 1:

Average throughput: 96.93 Mbit/s

95th percentile per-packet one-way delay: 53.225 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-16 18:12:12

End at: 2018-01-16 18:12:42

Below is generated by plot.py at 2018-01-16 21:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.48 Mbit/s

95th percentile per-packet one-way delay: 53.319 ms

Loss rate: 0.00%

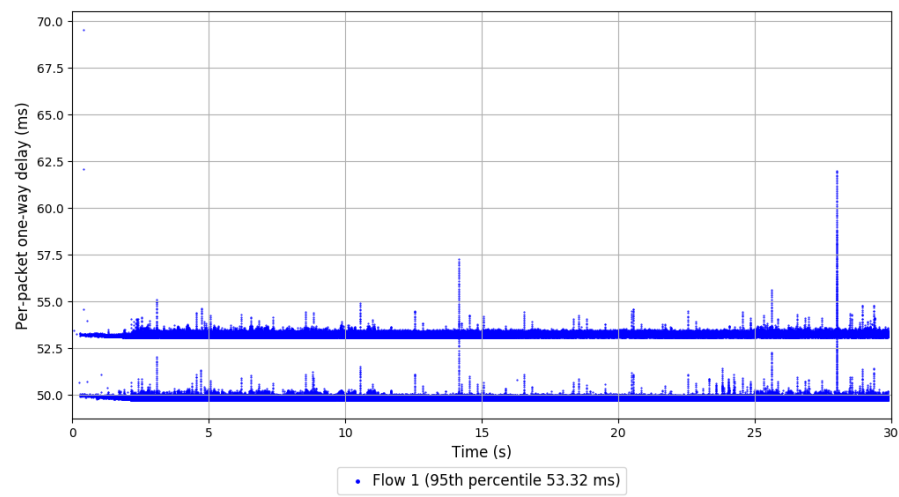
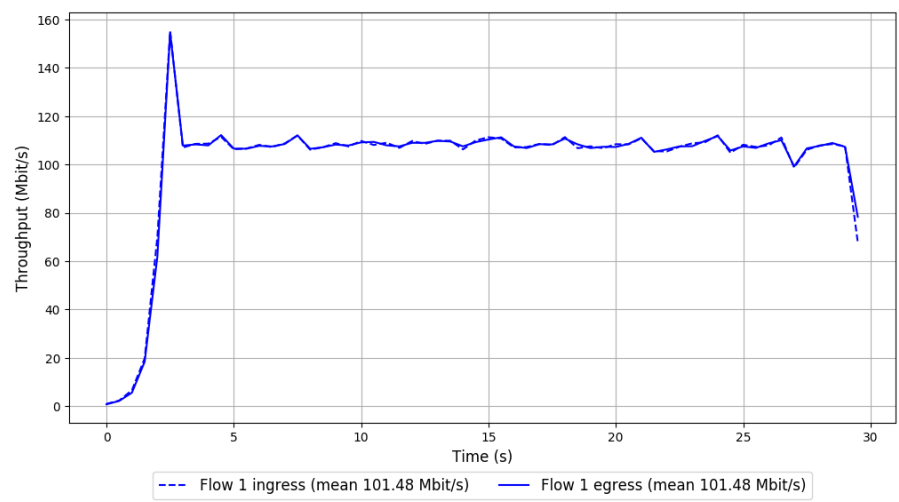
-- Flow 1:

Average throughput: 101.48 Mbit/s

95th percentile per-packet one-way delay: 53.319 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-16 18:25:52

End at: 2018-01-16 18:26:22

Below is generated by plot.py at 2018-01-16 21:53:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.20 Mbit/s

95th percentile per-packet one-way delay: 66.659 ms

Loss rate: 0.00%

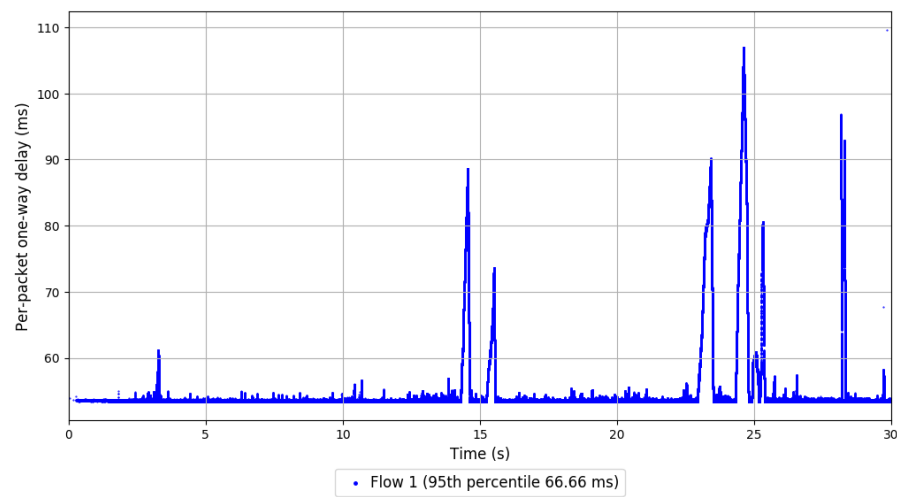
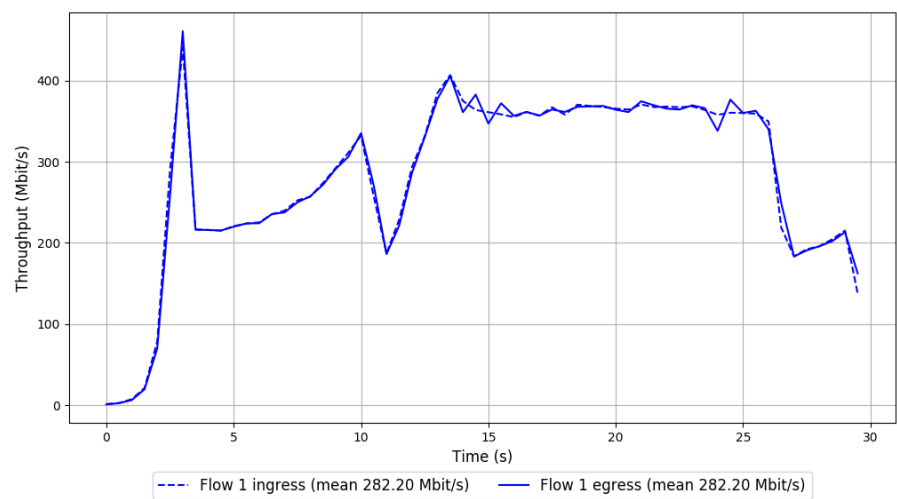
-- Flow 1:

Average throughput: 282.20 Mbit/s

95th percentile per-packet one-way delay: 66.659 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-16 18:40:14

End at: 2018-01-16 18:40:44

Below is generated by plot.py at 2018-01-16 21:53:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.97 Mbit/s

95th percentile per-packet one-way delay: 53.562 ms

Loss rate: 0.00%

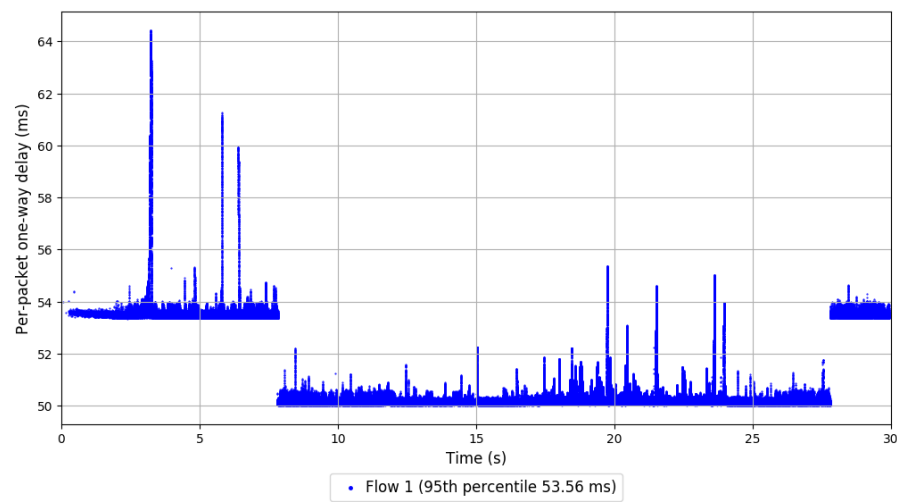
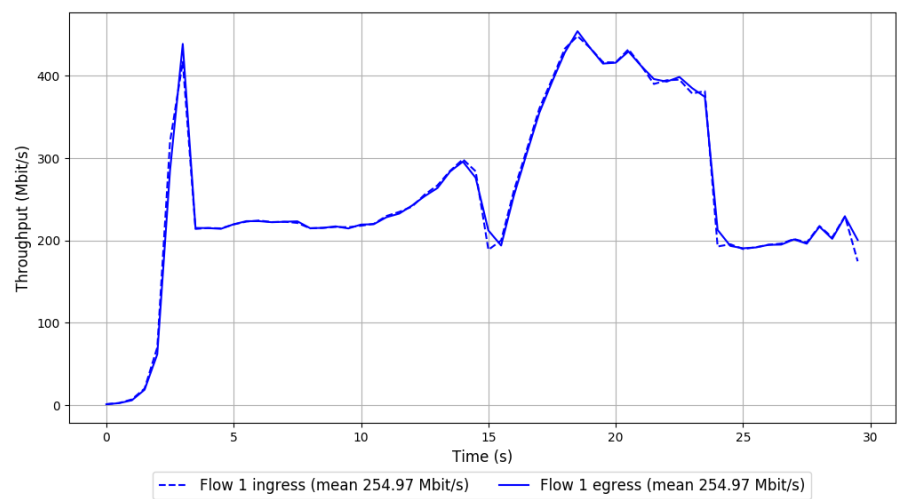
-- Flow 1:

Average throughput: 254.97 Mbit/s

95th percentile per-packet one-way delay: 53.562 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-16 18:54:41

End at: 2018-01-16 18:55:11

Below is generated by plot.py at 2018-01-16 21:53:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.06 Mbit/s

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

Loss rate: 0.00%

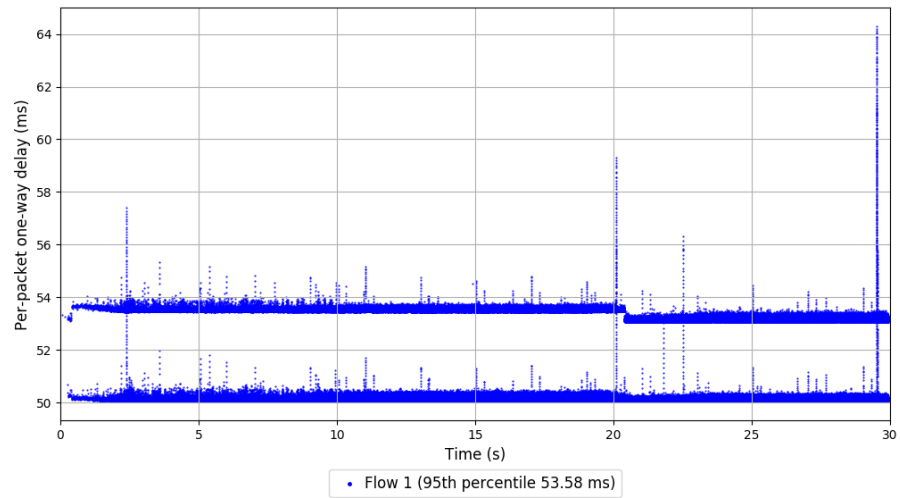
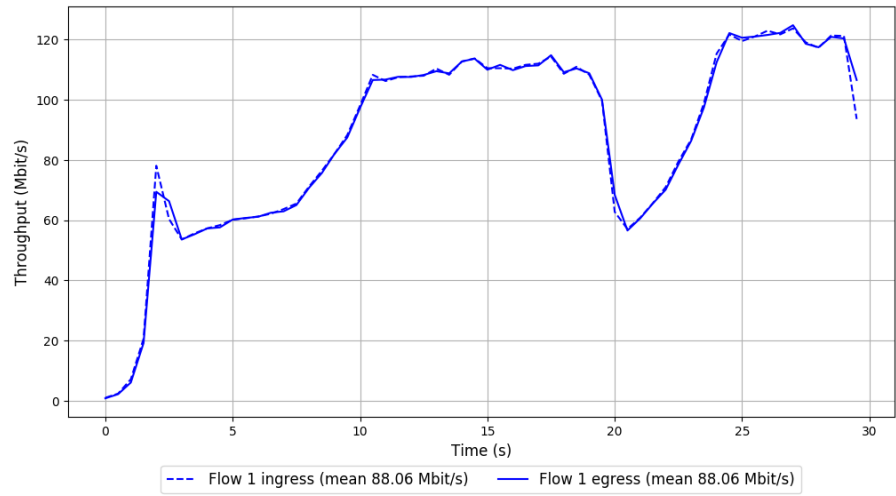
-- Flow 1:

Average throughput: 88.06 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-16 19:08:32

End at: 2018-01-16 19:09:02

Below is generated by plot.py at 2018-01-16 21:53:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.66 Mbit/s

95th percentile per-packet one-way delay: 57.827 ms

Loss rate: 0.00%

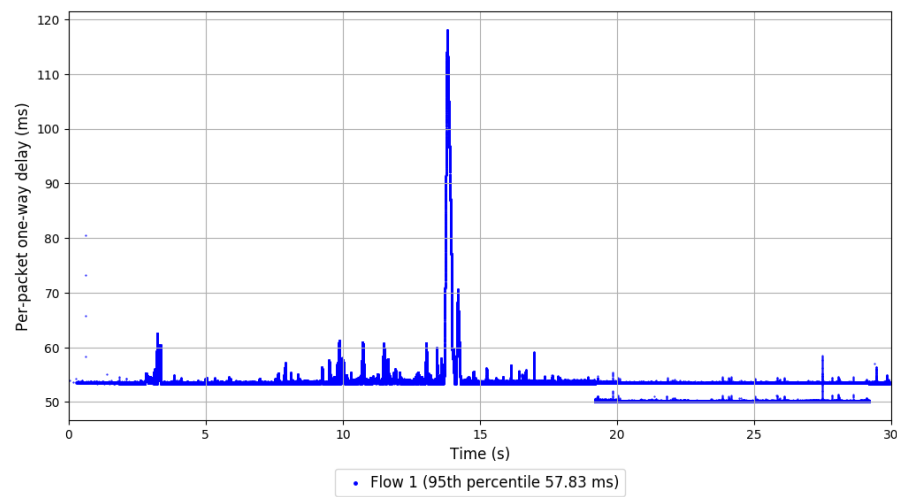
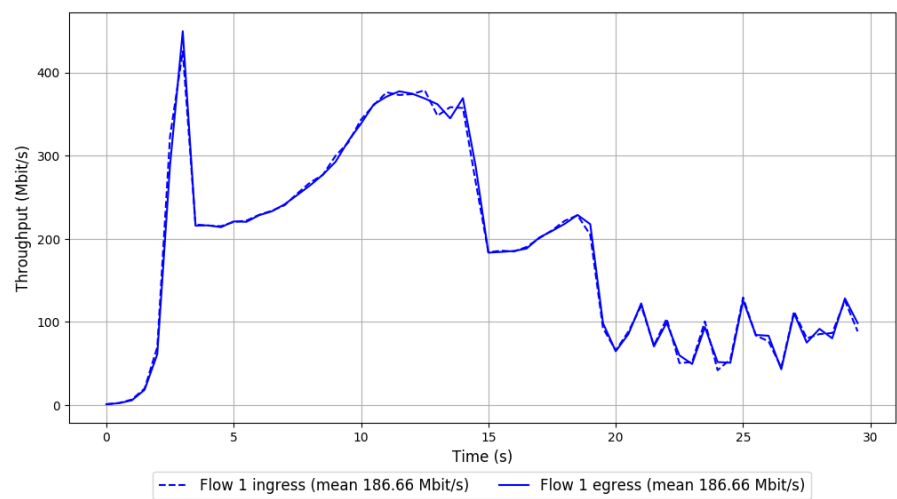
-- Flow 1:

Average throughput: 186.66 Mbit/s

95th percentile per-packet one-way delay: 57.827 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

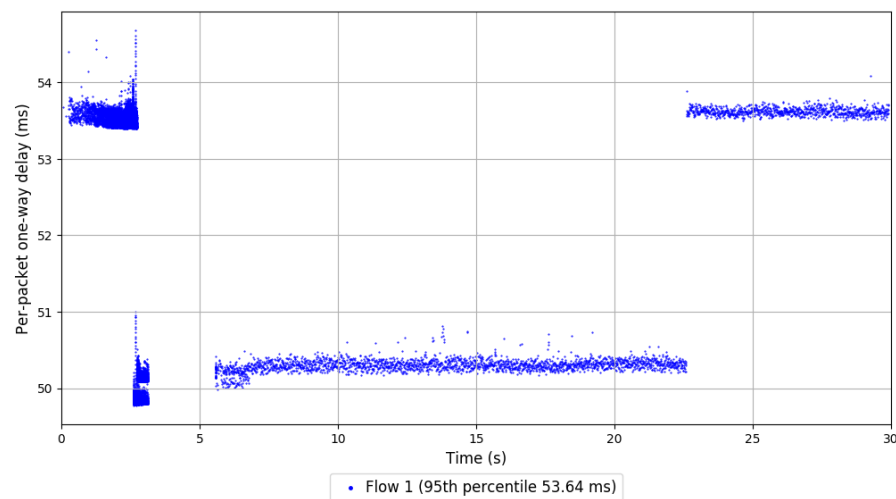
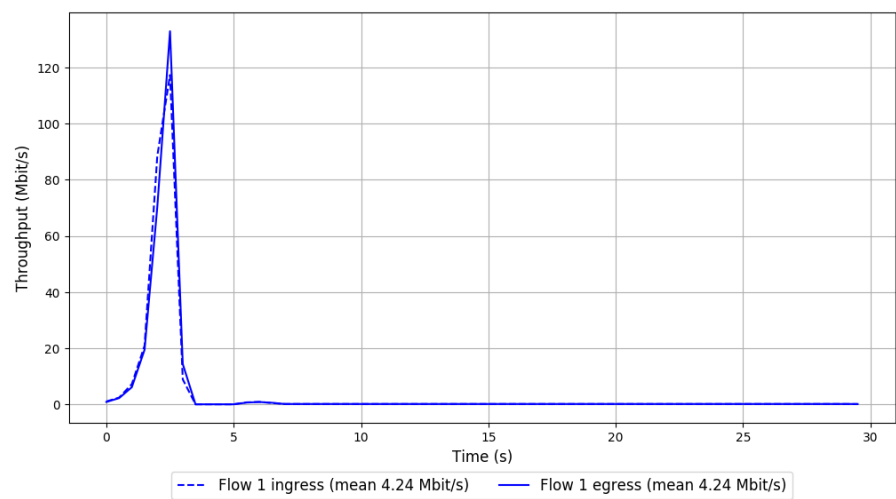


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 16:59:59
End at: 2018-01-16 17:00:29

# Below is generated by plot.py at 2018-01-16 21:53:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 53.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 53.640 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 17:13:47

End at: 2018-01-16 17:14:17

Below is generated by plot.py at 2018-01-16 21:53:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.81 Mbit/s

95th percentile per-packet one-way delay: 52.225 ms

Loss rate: 0.00%

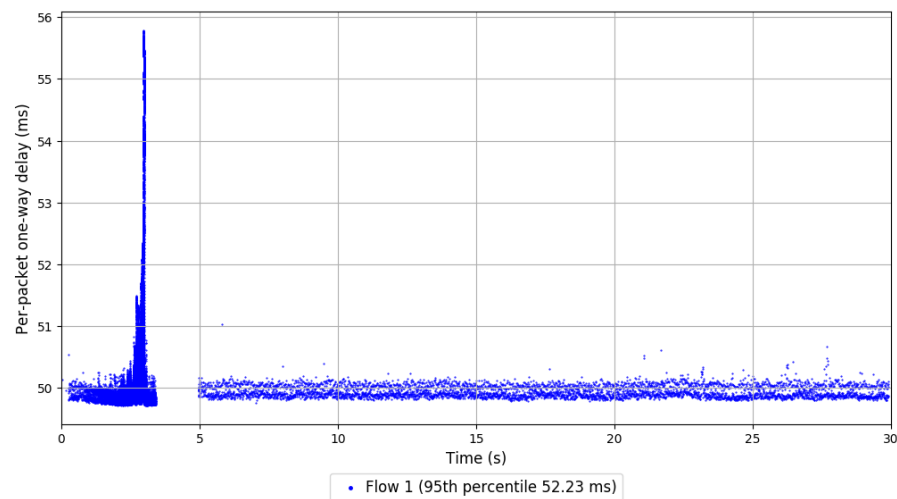
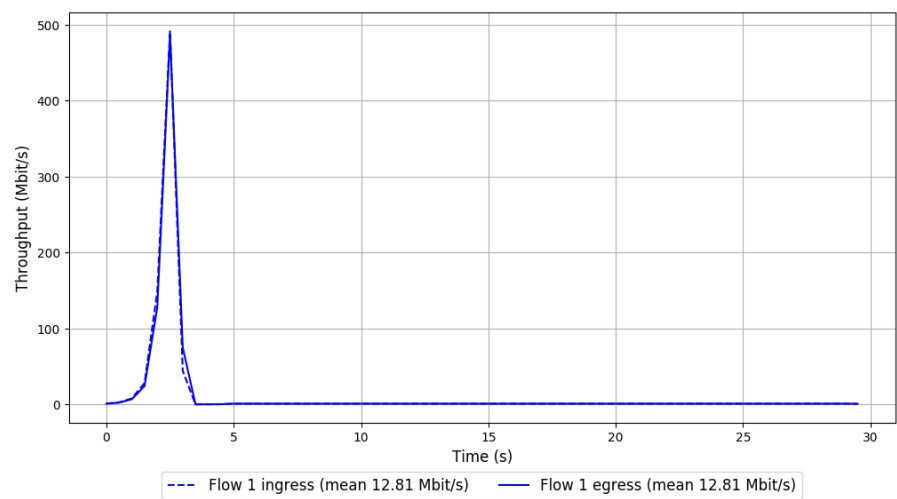
-- Flow 1:

Average throughput: 12.81 Mbit/s

95th percentile per-packet one-way delay: 52.225 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 17:27:50

End at: 2018-01-16 17:28:20

Below is generated by plot.py at 2018-01-16 21:53:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.10 Mbit/s

95th percentile per-packet one-way delay: 50.658 ms

Loss rate: 0.00%

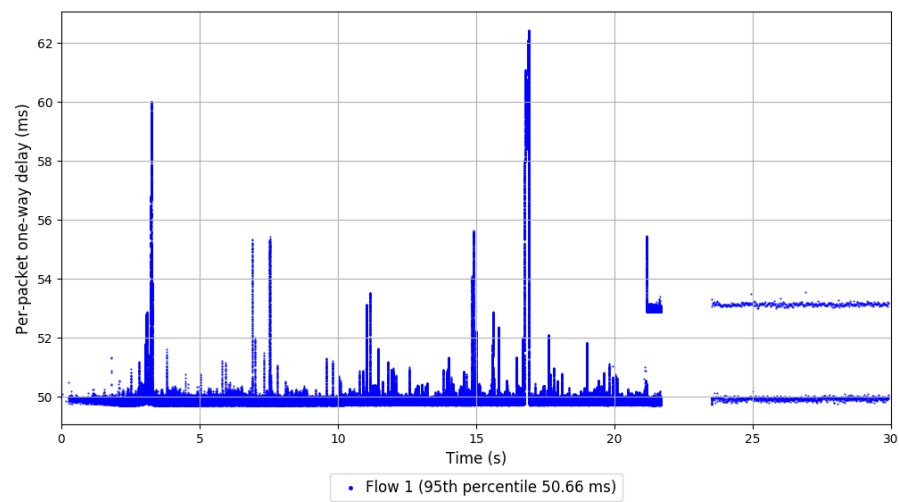
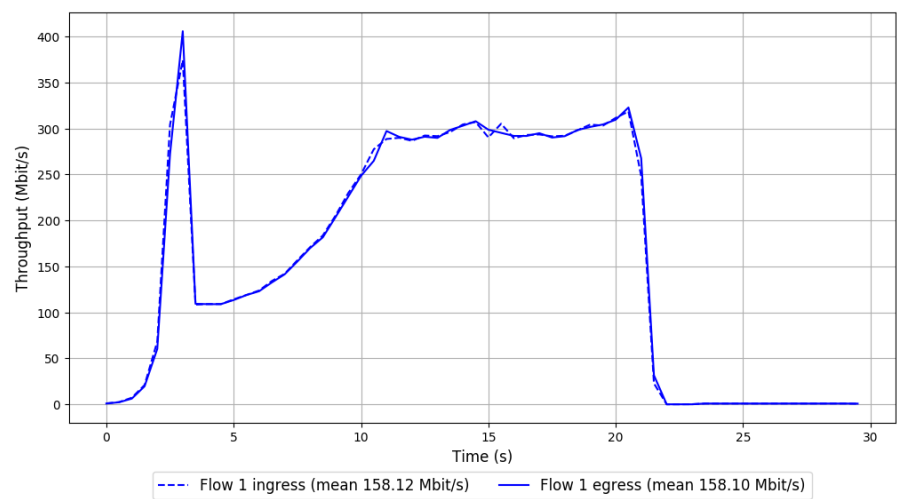
-- Flow 1:

Average throughput: 158.10 Mbit/s

95th percentile per-packet one-way delay: 50.658 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-16 17:42:08

End at: 2018-01-16 17:42:38

Below is generated by plot.py at 2018-01-16 21:53:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.12 Mbit/s

95th percentile per-packet one-way delay: 53.458 ms

Loss rate: 0.00%

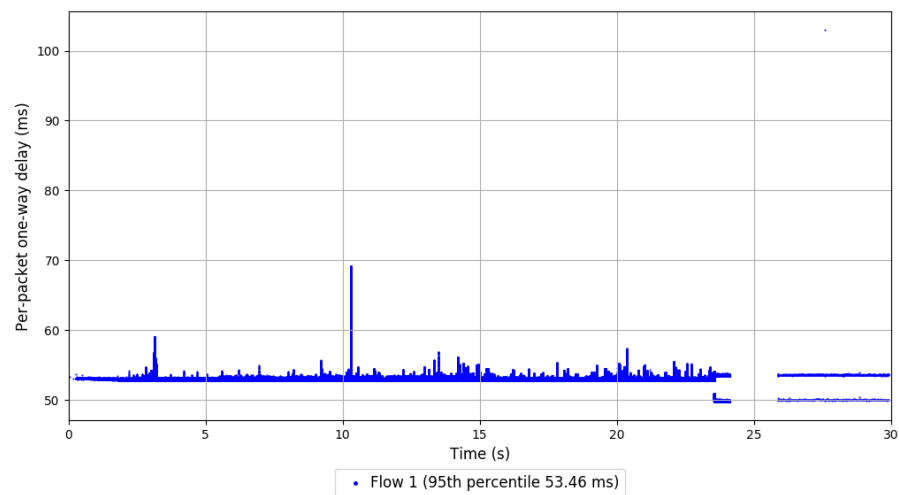
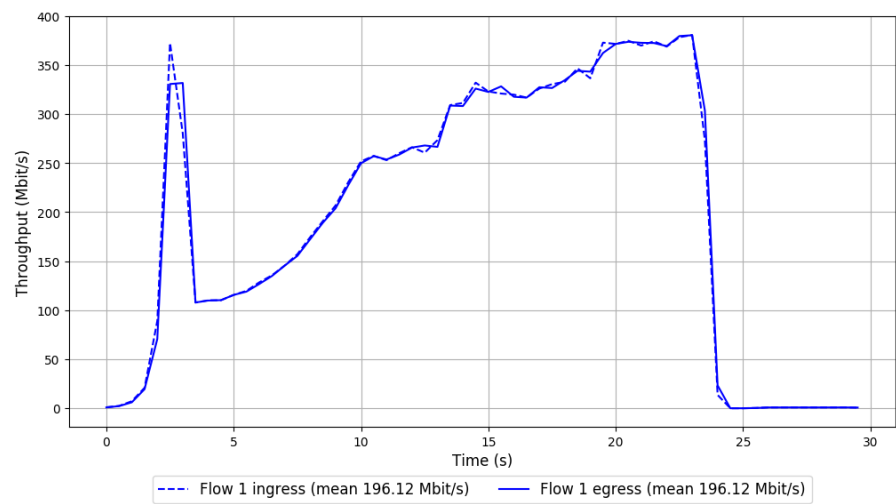
-- Flow 1:

Average throughput: 196.12 Mbit/s

95th percentile per-packet one-way delay: 53.458 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-16 17:56:16

End at: 2018-01-16 17:56:46

Below is generated by plot.py at 2018-01-16 21:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.90 Mbit/s

95th percentile per-packet one-way delay: 53.998 ms

Loss rate: 0.00%

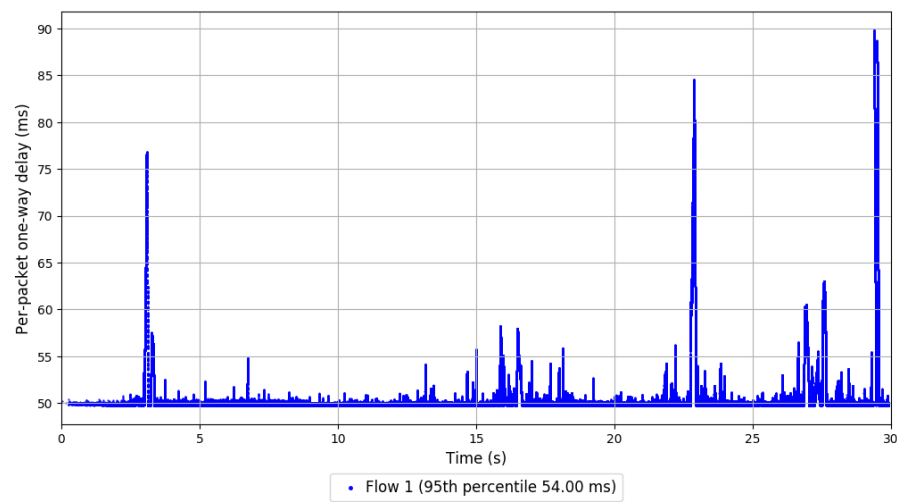
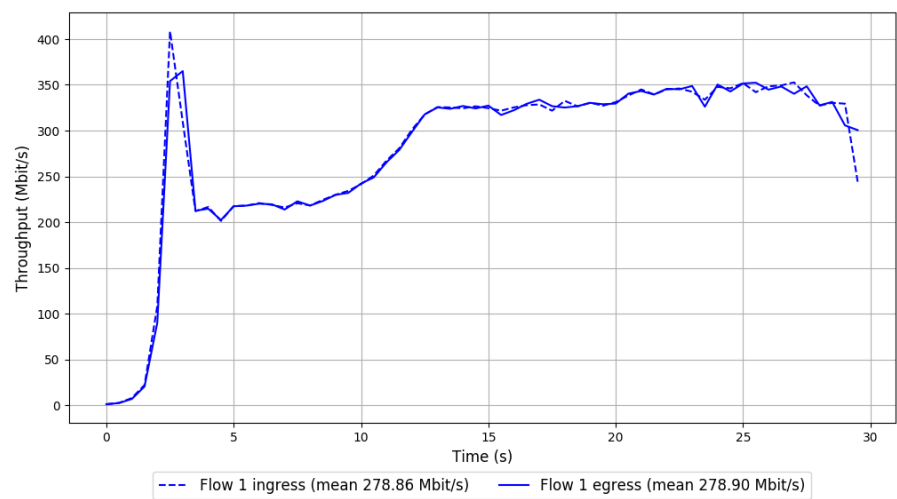
-- Flow 1:

Average throughput: 278.90 Mbit/s

95th percentile per-packet one-way delay: 53.998 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-16 18:10:41

End at: 2018-01-16 18:11:11

Below is generated by plot.py at 2018-01-16 21:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 56.445 ms

Loss rate: 0.00%

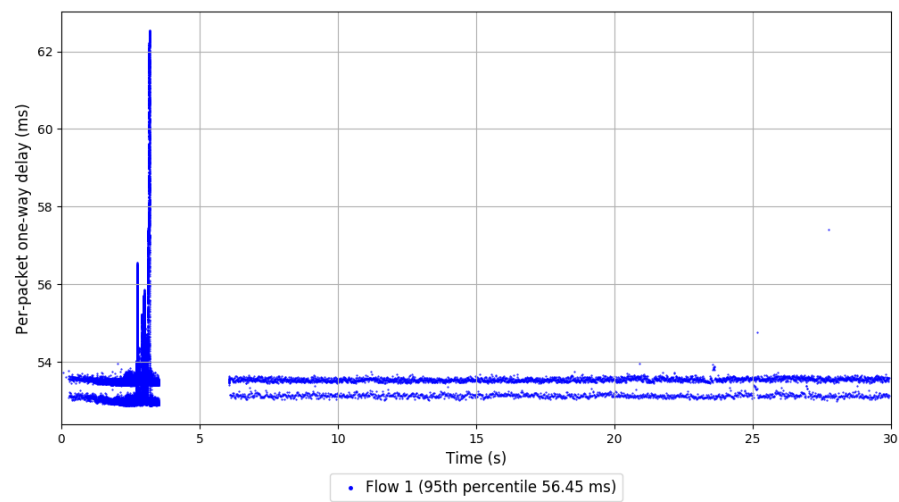
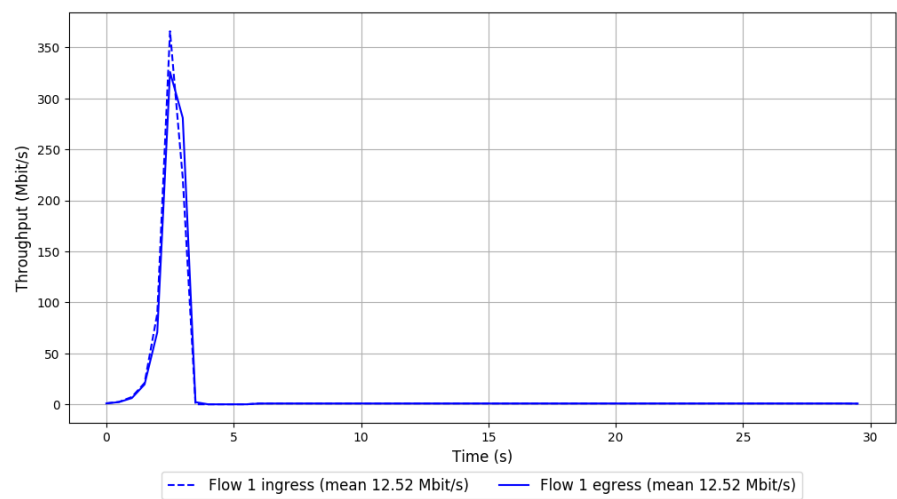
-- Flow 1:

Average throughput: 12.52 Mbit/s

95th percentile per-packet one-way delay: 56.445 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-16 18:24:23

End at: 2018-01-16 18:24:53

Below is generated by plot.py at 2018-01-16 21:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 53.653 ms

Loss rate: 0.00%

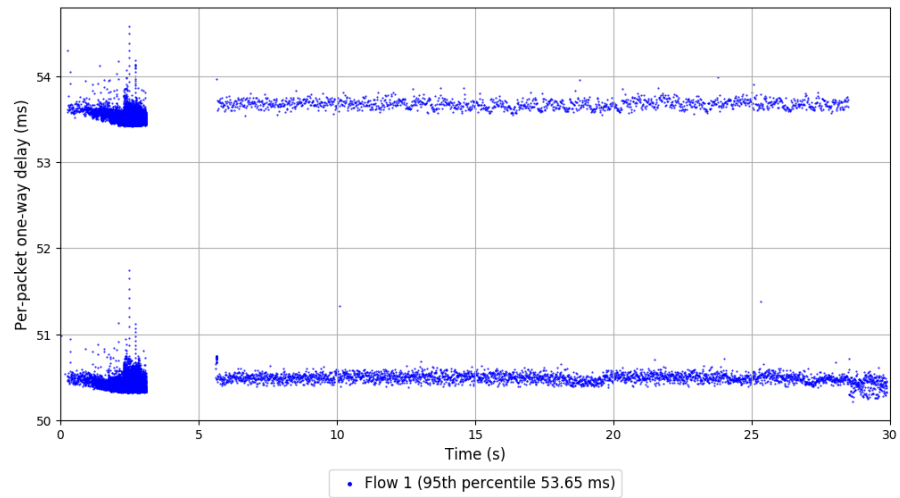
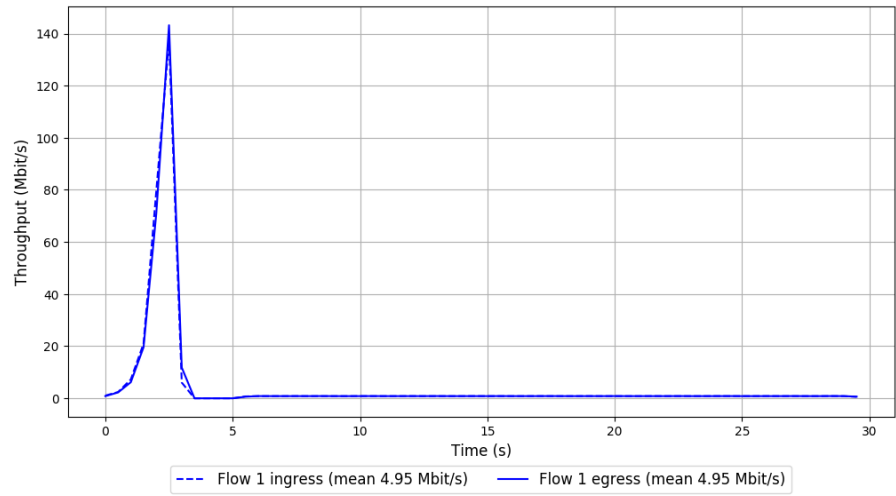
-- Flow 1:

Average throughput: 4.95 Mbit/s

95th percentile per-packet one-way delay: 53.653 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-16 18:38:41

End at: 2018-01-16 18:39:11

Below is generated by plot.py at 2018-01-16 21:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 59.290 ms

Loss rate: 0.00%

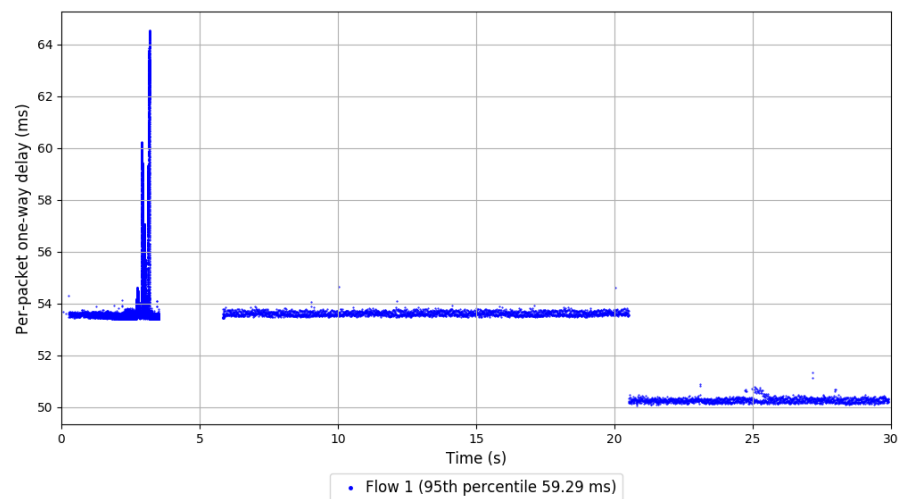
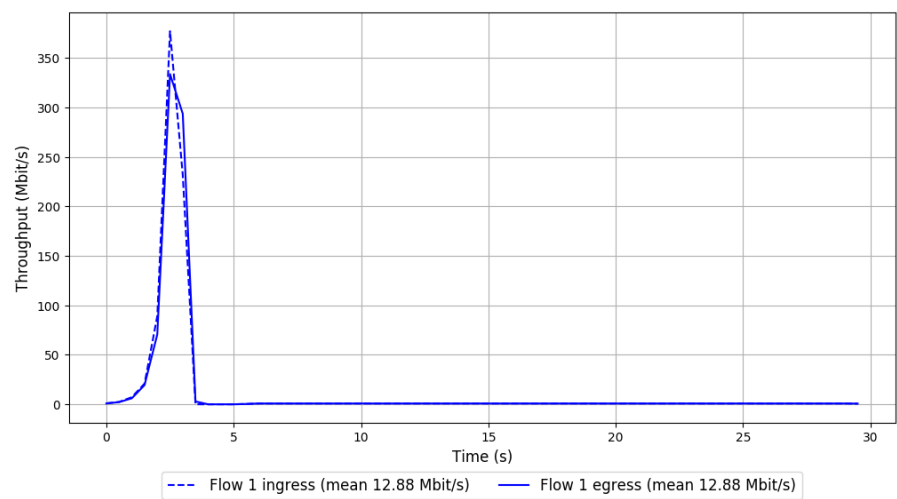
-- Flow 1:

Average throughput: 12.88 Mbit/s

95th percentile per-packet one-way delay: 59.290 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-16 18:53:11

End at: 2018-01-16 18:53:41

Below is generated by plot.py at 2018-01-16 21:54:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.00%

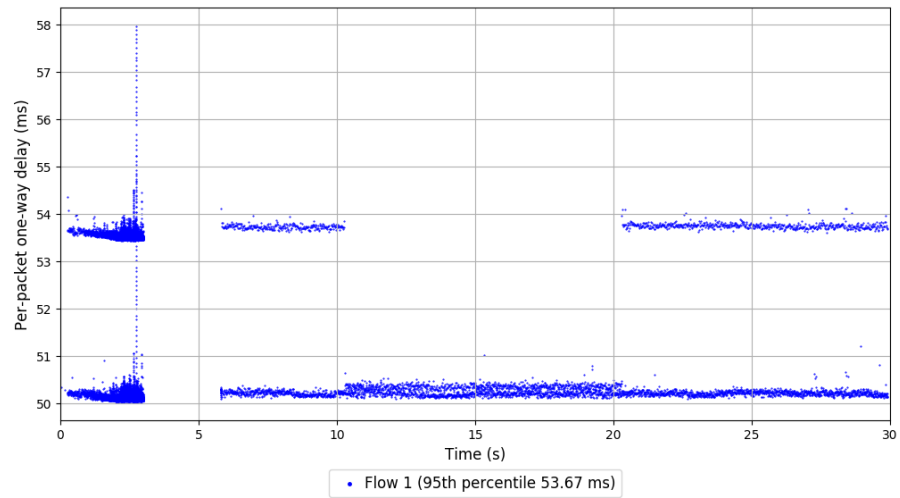
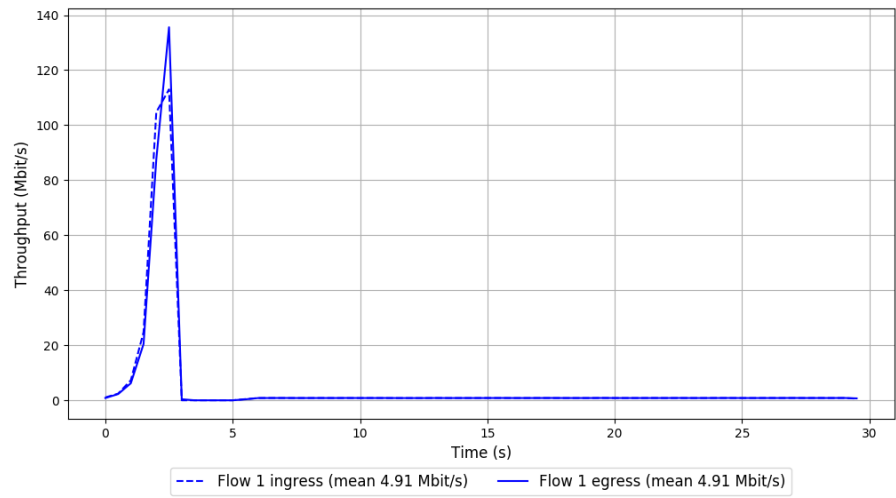
-- Flow 1:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-16 19:07:01
End at: 2018-01-16 19:07:31

# Below is generated by plot.py at 2018-01-16 21:54:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 53.649 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.90 Mbit/s
95th percentile per-packet one-way delay: 53.649 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

