

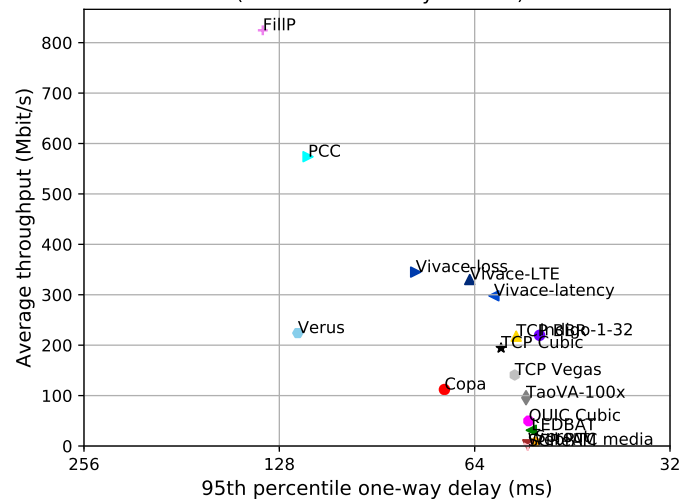
Pantheon Report

Generated at 2018-03-13 12:13:37 (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**).

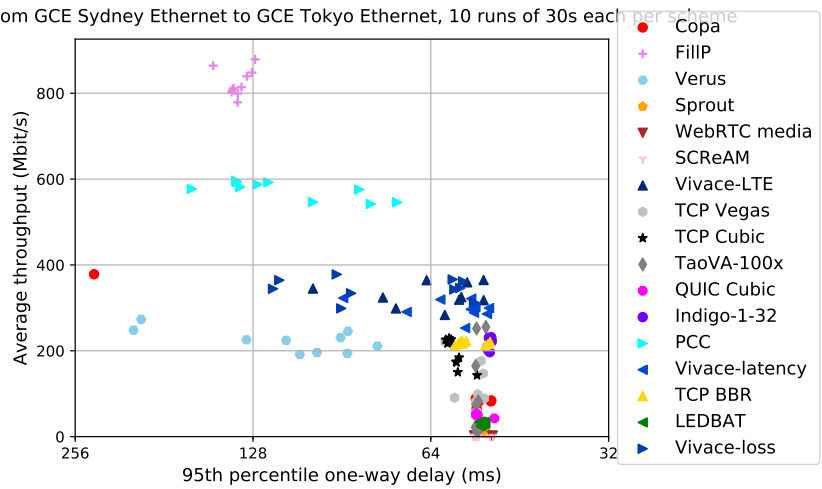
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ 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	217.92	55.23	0.00
TCP Cubic	10	194.42	58.28	0.00
LEDBAT	10	31.26	52.36	0.00
PCC	10	573.84	115.59	0.66
QUIC Cubic	5	49.79	52.85	0.00
SCReAM	10	0.21	53.01	0.00
WebRTC media	10	2.32	53.01	0.00
Sprout	10	7.82	51.61	0.00
TaoVA-100x	10	95.79	53.33	0.00
TCP Vegas	10	140.86	55.52	0.00
Verus	10	223.97	119.88	0.60
Copa	10	112.04	71.25	3.35
FillP	10	824.56	135.74	8.46
Indigo-1-32	10	219.57	50.83	0.00
Vivace-latency	10	297.97	59.79	0.00
Vivace-loss	10	344.93	78.90	0.04
Vivace-LTE	10	330.27	65.13	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-03-13 05:59:40

End at: 2018-03-13 06:00:10

Below is generated by plot.py at 2018-03-13 10:27:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.21 Mbit/s

95th percentile per-packet one-way delay: 57.297 ms

Loss rate: 0.00%

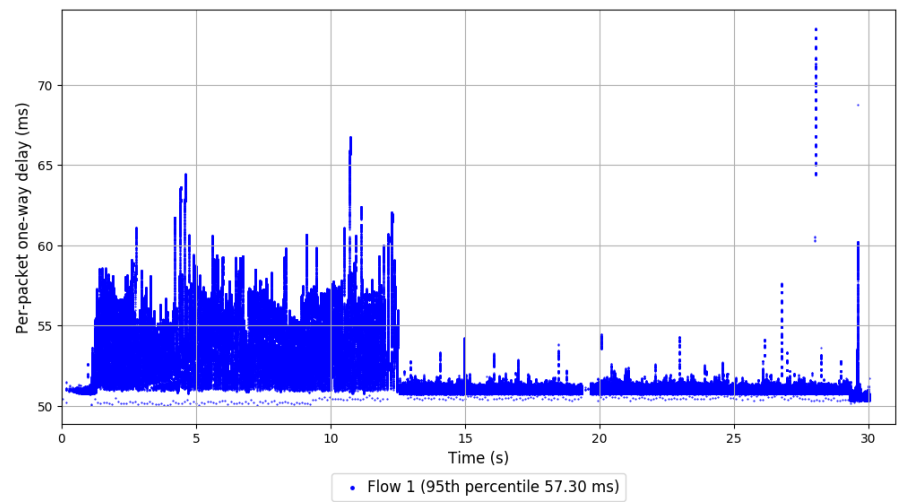
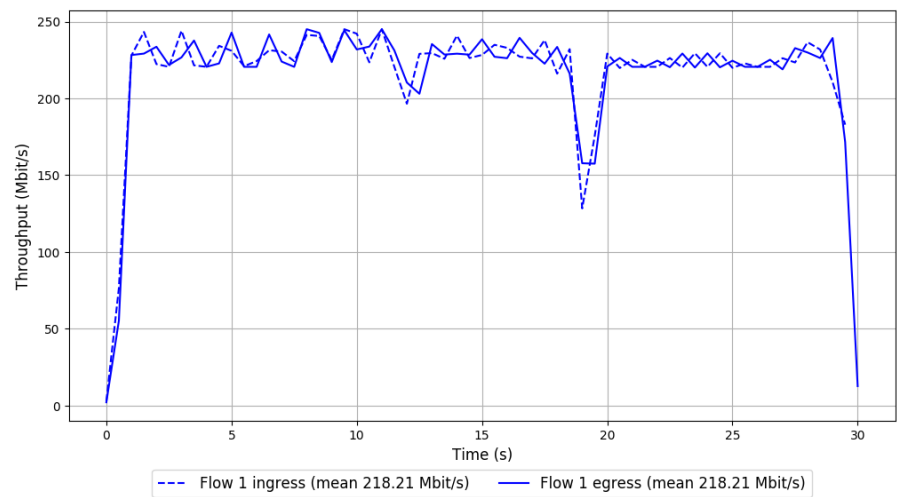
-- Flow 1:

Average throughput: 218.21 Mbit/s

95th percentile per-packet one-way delay: 57.297 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-13 06:14:13

End at: 2018-03-13 06:14:43

Below is generated by plot.py at 2018-03-13 10:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.21 Mbit/s

95th percentile per-packet one-way delay: 55.736 ms

Loss rate: 0.00%

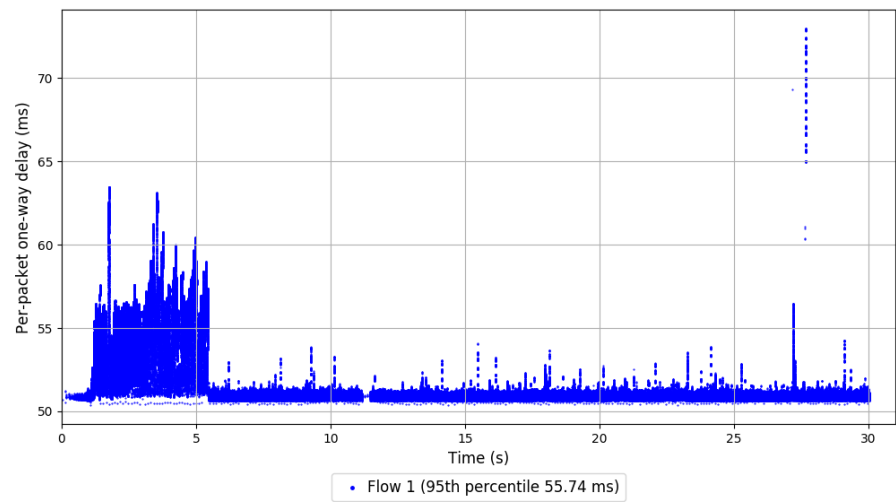
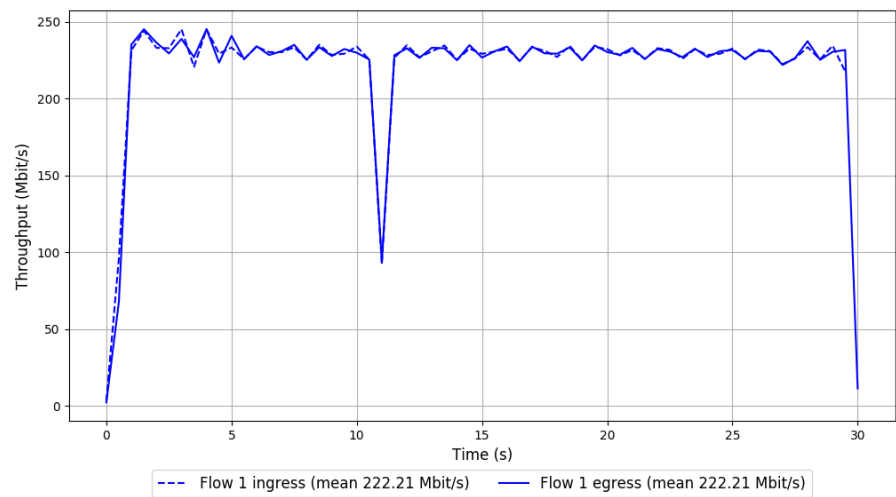
-- Flow 1:

Average throughput: 222.21 Mbit/s

95th percentile per-packet one-way delay: 55.736 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-13 06:28:25

End at: 2018-03-13 06:28:55

Below is generated by plot.py at 2018-03-13 10:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.45 Mbit/s

95th percentile per-packet one-way delay: 51.756 ms

Loss rate: 0.00%

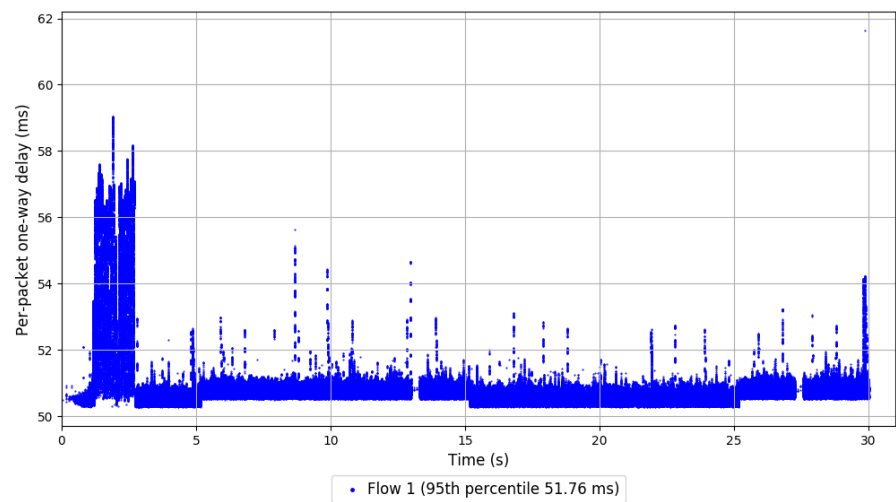
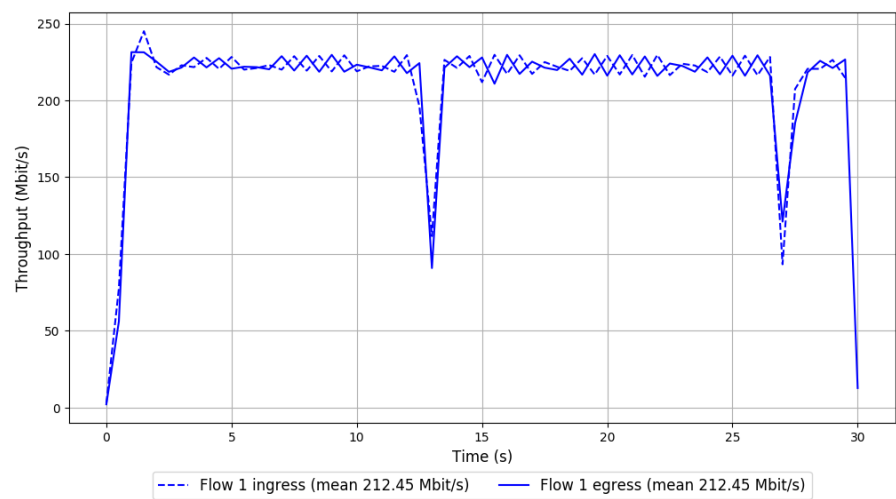
-- Flow 1:

Average throughput: 212.45 Mbit/s

95th percentile per-packet one-way delay: 51.756 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-13 06:42:59

End at: 2018-03-13 06:43:29

Below is generated by plot.py at 2018-03-13 10:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.02 Mbit/s

95th percentile per-packet one-way delay: 56.563 ms

Loss rate: 0.00%

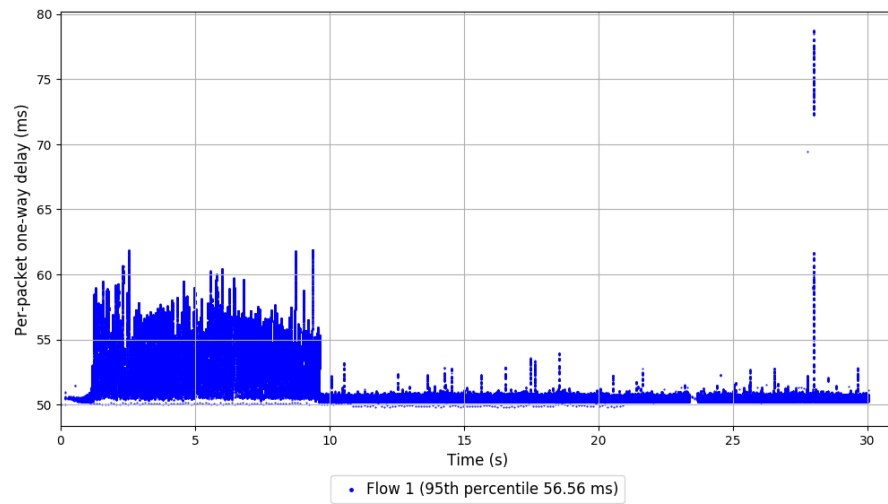
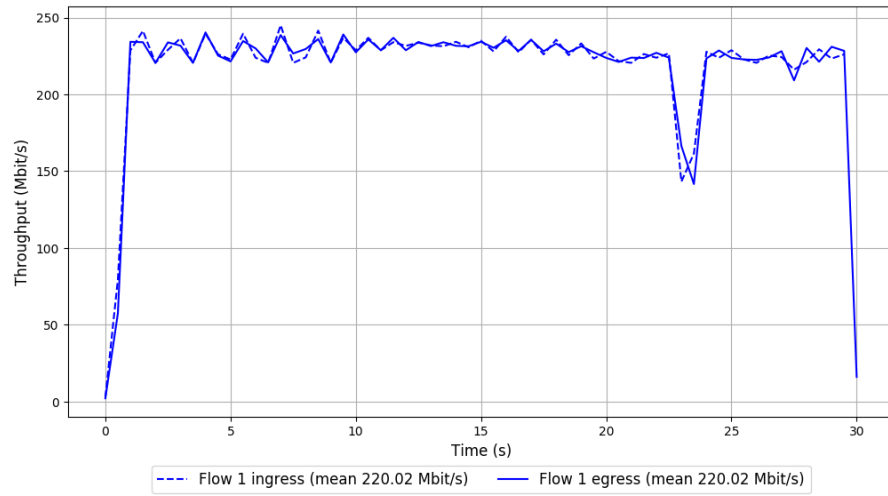
-- Flow 1:

Average throughput: 220.02 Mbit/s

95th percentile per-packet one-way delay: 56.563 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-13 06:57:30

End at: 2018-03-13 06:58:00

Below is generated by plot.py at 2018-03-13 10:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.79 Mbit/s

95th percentile per-packet one-way delay: 51.174 ms

Loss rate: 0.00%

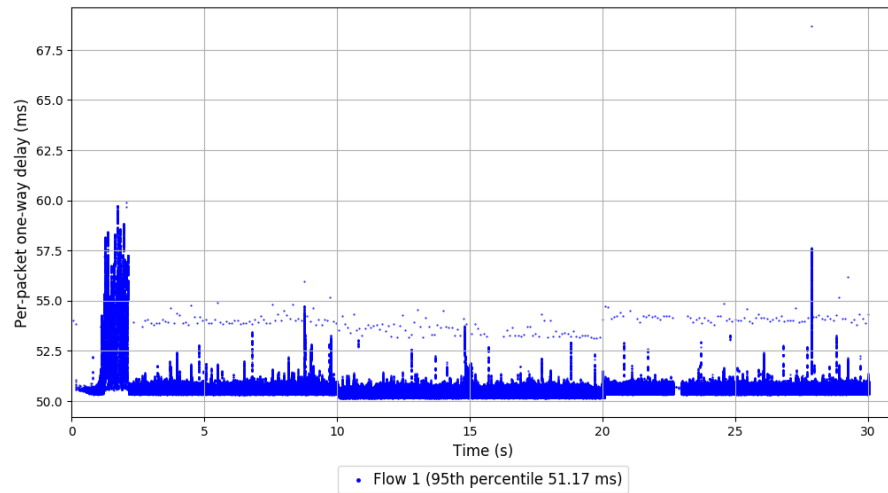
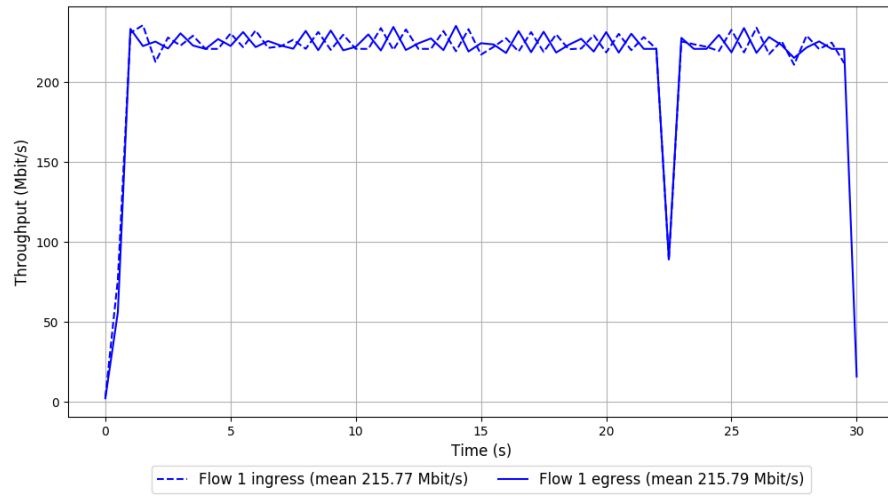
-- Flow 1:

Average throughput: 215.79 Mbit/s

95th percentile per-packet one-way delay: 51.174 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-13 07:11:49

End at: 2018-03-13 07:12:19

Below is generated by plot.py at 2018-03-13 10:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.75 Mbit/s

95th percentile per-packet one-way delay: 58.236 ms

Loss rate: 0.00%

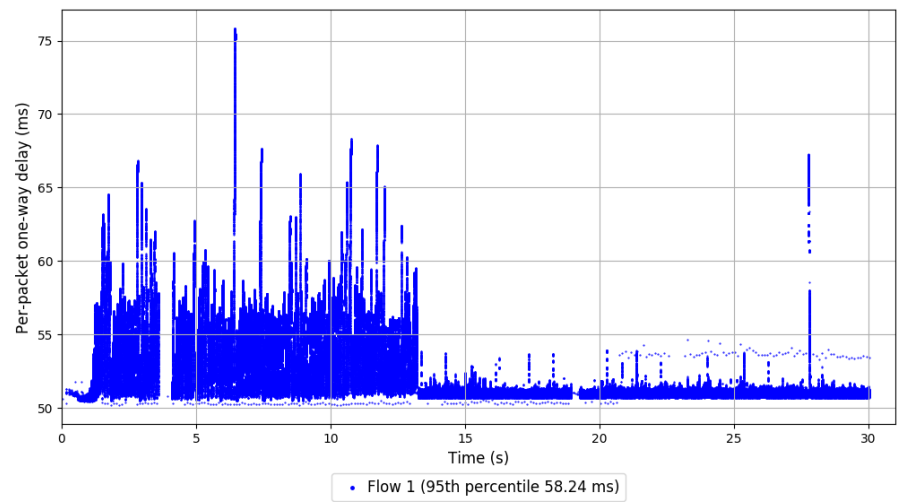
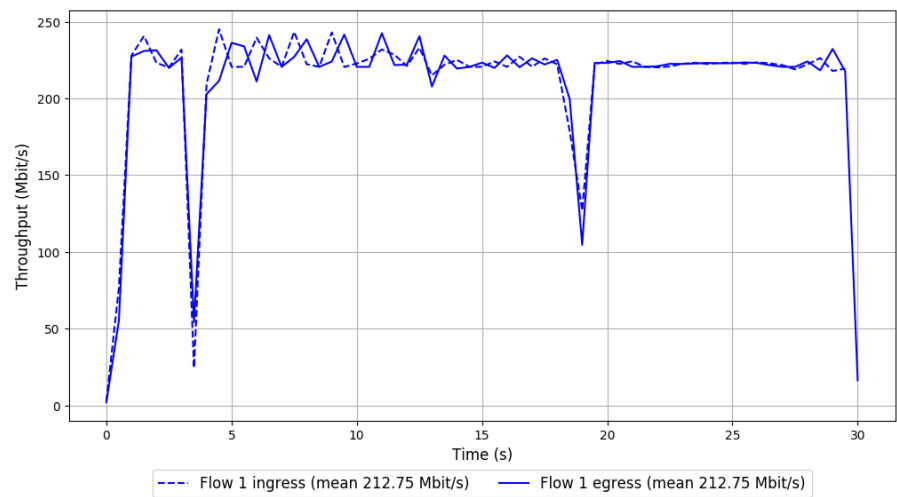
-- Flow 1:

Average throughput: 212.75 Mbit/s

95th percentile per-packet one-way delay: 58.236 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-13 07:26:27

End at: 2018-03-13 07:26:57

Below is generated by plot.py at 2018-03-13 10:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.71 Mbit/s

95th percentile per-packet one-way delay: 57.526 ms

Loss rate: 0.00%

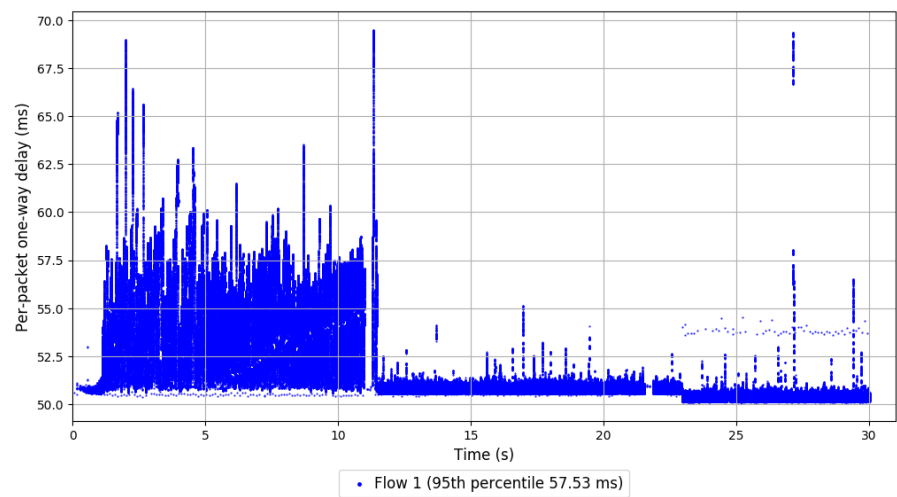
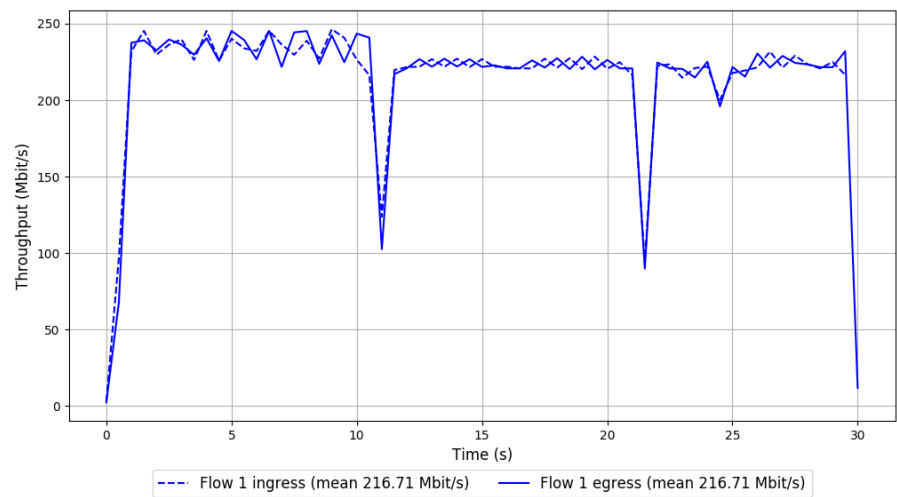
-- Flow 1:

Average throughput: 216.71 Mbit/s

95th percentile per-packet one-way delay: 57.526 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-13 07:40:41

End at: 2018-03-13 07:41:11

Below is generated by plot.py at 2018-03-13 10:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.37 Mbit/s

95th percentile per-packet one-way delay: 56.782 ms

Loss rate: 0.00%

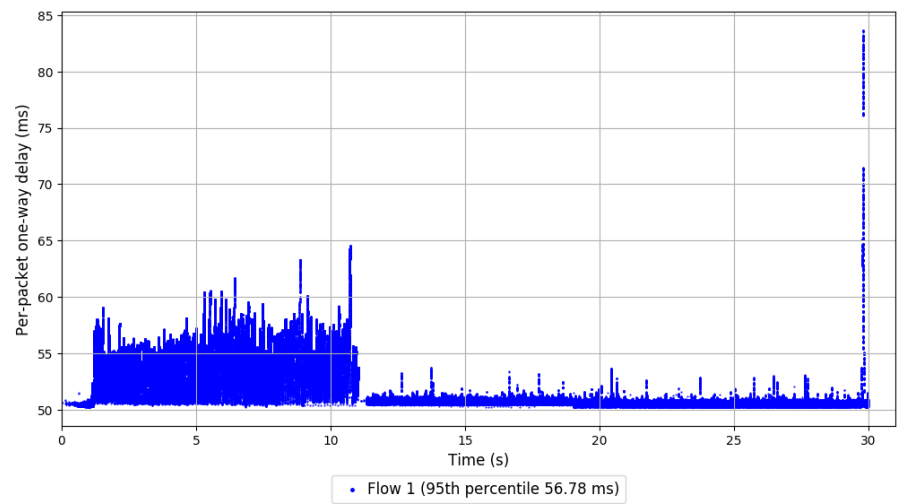
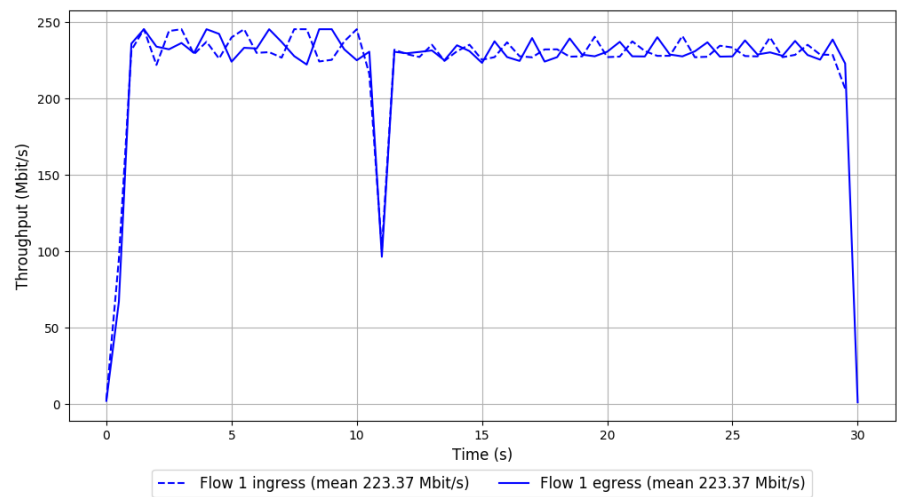
-- Flow 1:

Average throughput: 223.37 Mbit/s

95th percentile per-packet one-way delay: 56.782 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-13 07:54:49

End at: 2018-03-13 07:55:19

Below is generated by plot.py at 2018-03-13 10:31:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.24 Mbit/s

95th percentile per-packet one-way delay: 56.440 ms

Loss rate: 0.00%

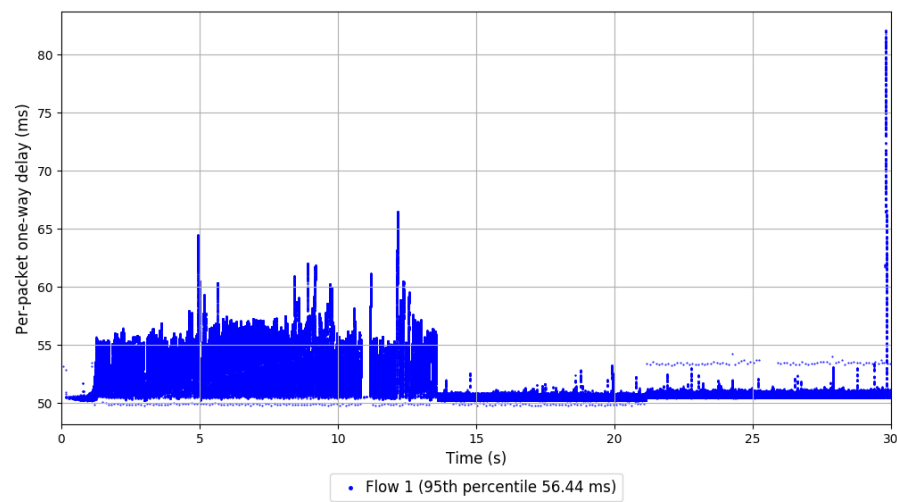
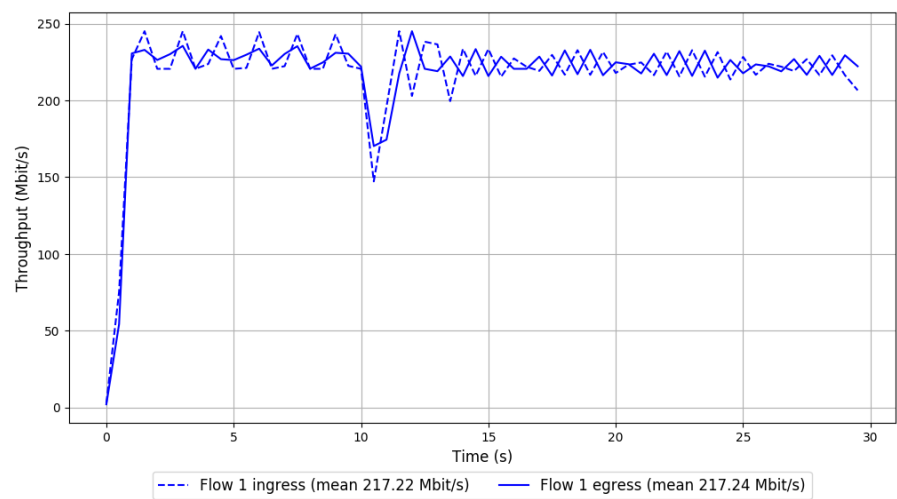
-- Flow 1:

Average throughput: 217.24 Mbit/s

95th percentile per-packet one-way delay: 56.440 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-13 08:08:59

End at: 2018-03-13 08:09:29

Below is generated by plot.py at 2018-03-13 10:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.49 Mbit/s

95th percentile per-packet one-way delay: 50.800 ms

Loss rate: 0.00%

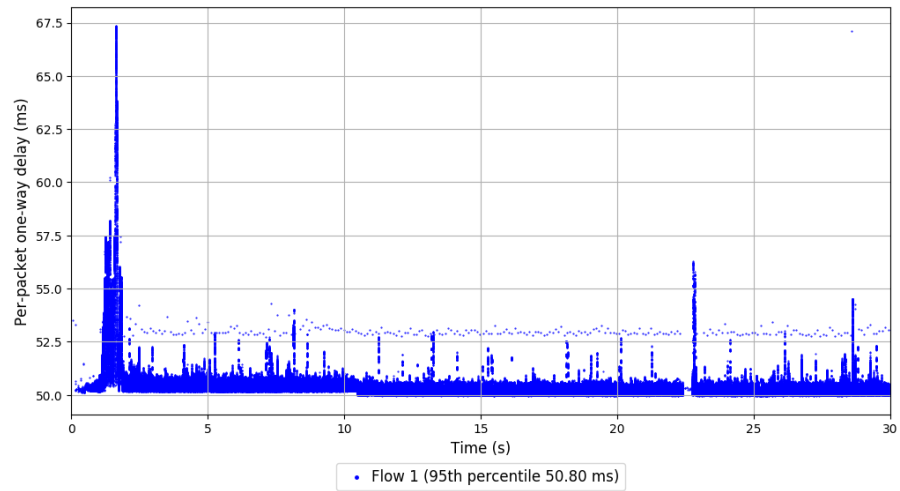
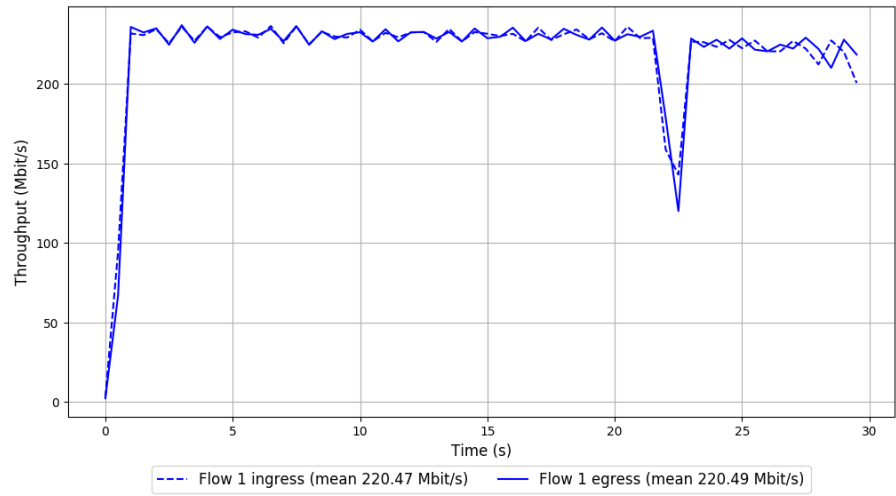
-- Flow 1:

Average throughput: 220.49 Mbit/s

95th percentile per-packet one-way delay: 50.800 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-13 06:07:40

End at: 2018-03-13 06:08:10

Below is generated by plot.py at 2018-03-13 10:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.25 Mbit/s

95th percentile per-packet one-way delay: 59.959 ms

Loss rate: 0.00%

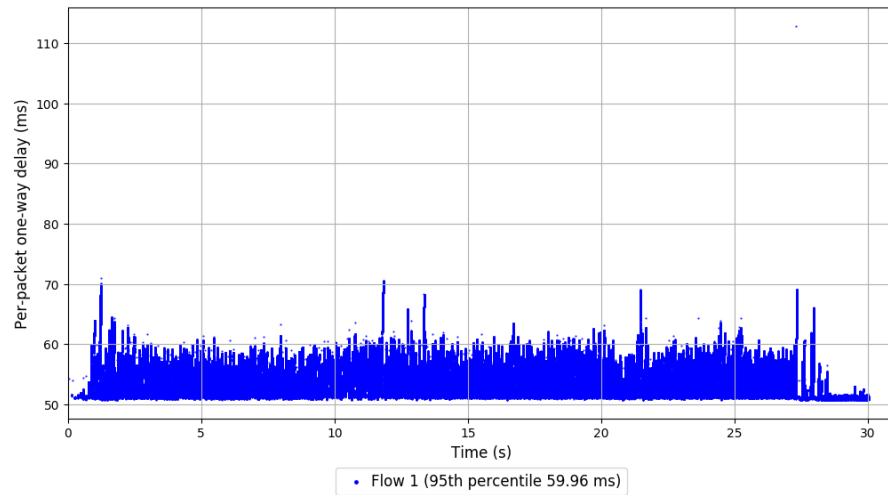
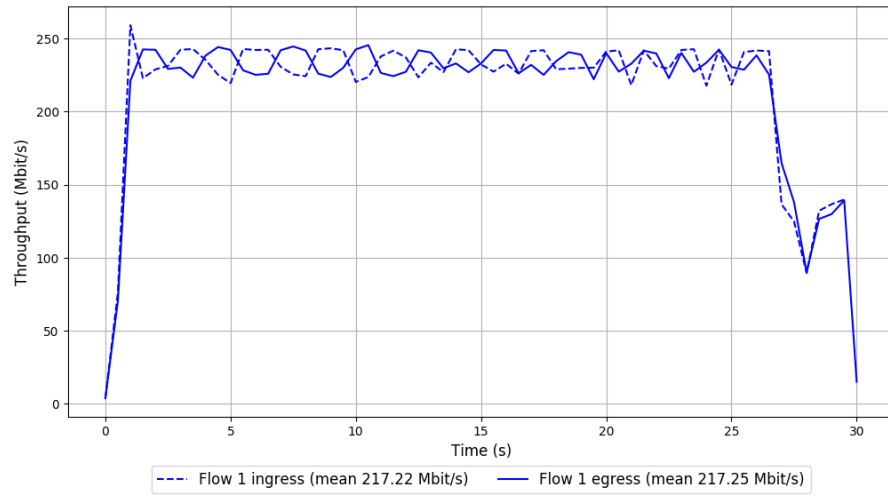
-- Flow 1:

Average throughput: 217.25 Mbit/s

95th percentile per-packet one-way delay: 59.959 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-13 06:21:59

End at: 2018-03-13 06:22:29

Below is generated by plot.py at 2018-03-13 10:32:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.28 Mbit/s

95th percentile per-packet one-way delay: 59.612 ms

Loss rate: 0.01%

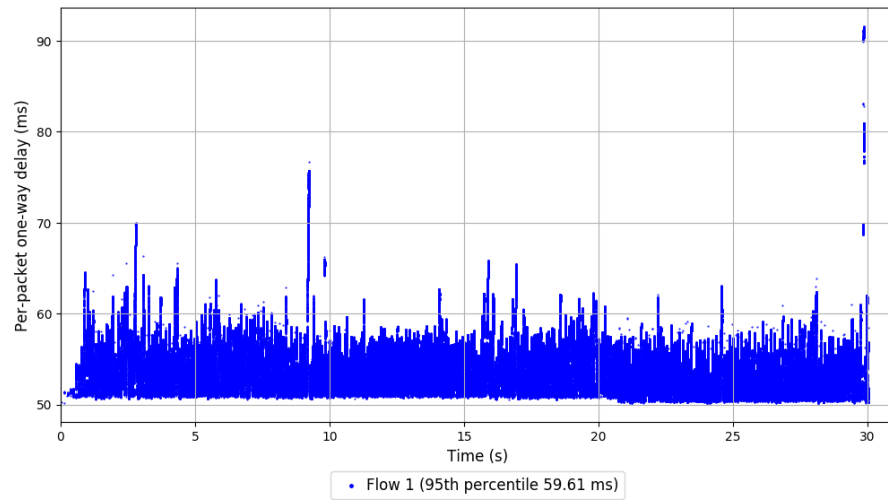
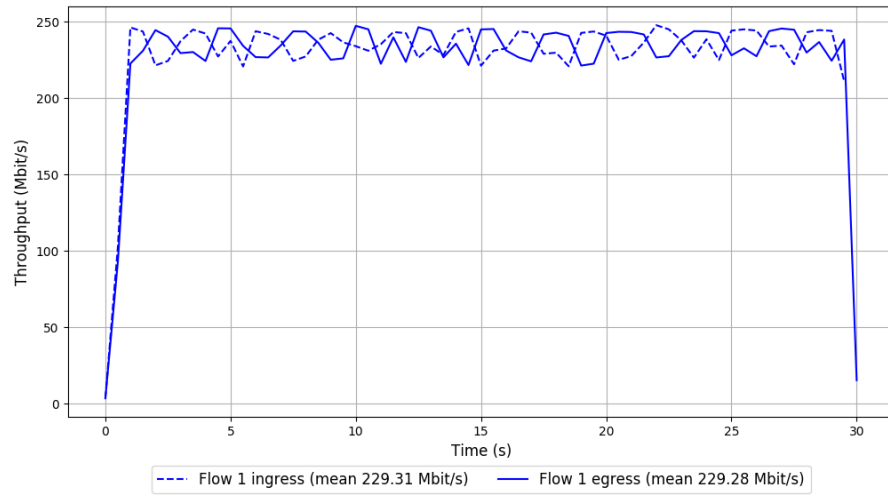
-- Flow 1:

Average throughput: 229.28 Mbit/s

95th percentile per-packet one-way delay: 59.612 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-13 06:36:33

End at: 2018-03-13 06:37:03

Below is generated by plot.py at 2018-03-13 10:32:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.26 Mbit/s

95th percentile per-packet one-way delay: 57.332 ms

Loss rate: 0.00%

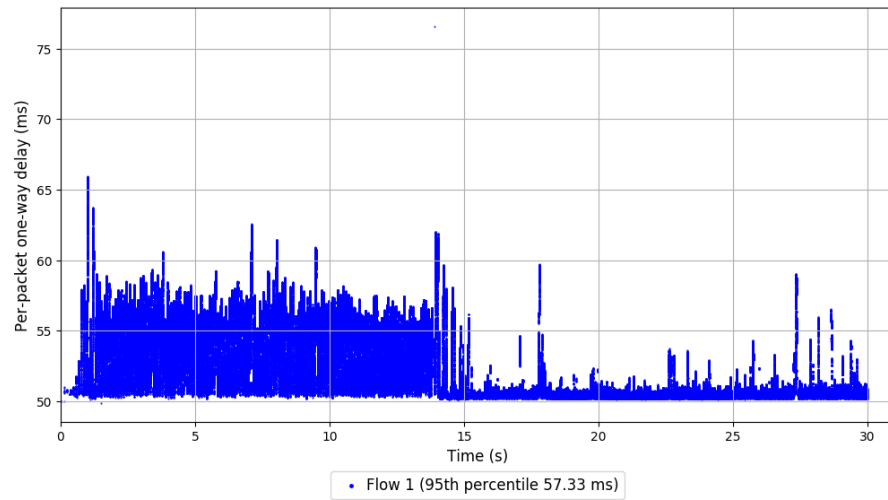
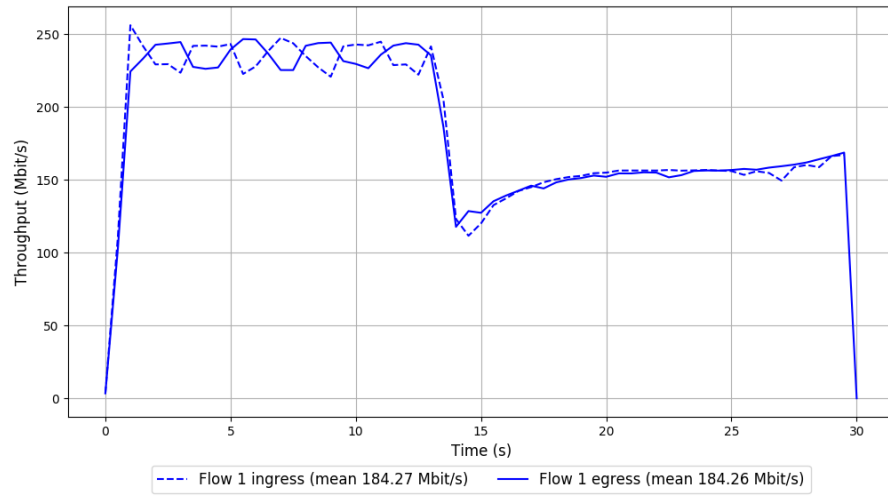
-- Flow 1:

Average throughput: 184.26 Mbit/s

95th percentile per-packet one-way delay: 57.332 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-13 06:51:04

End at: 2018-03-13 06:51:34

Below is generated by plot.py at 2018-03-13 10:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.42 Mbit/s

95th percentile per-packet one-way delay: 59.126 ms

Loss rate: 0.00%

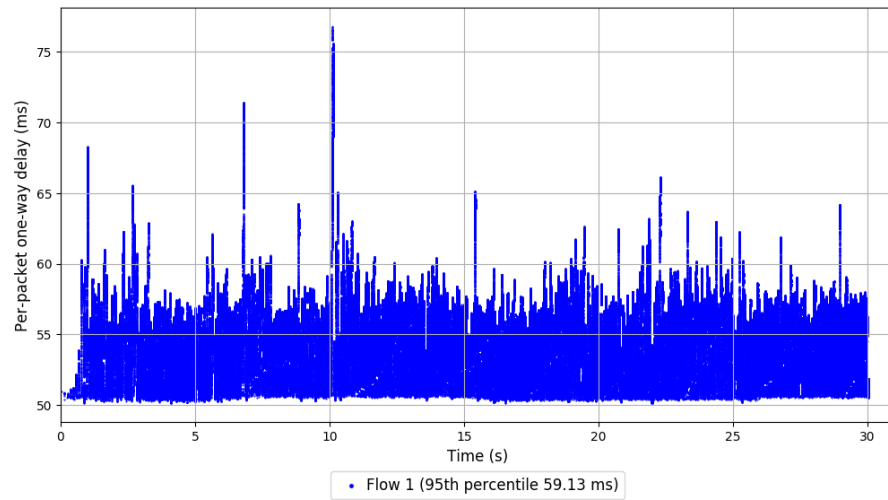
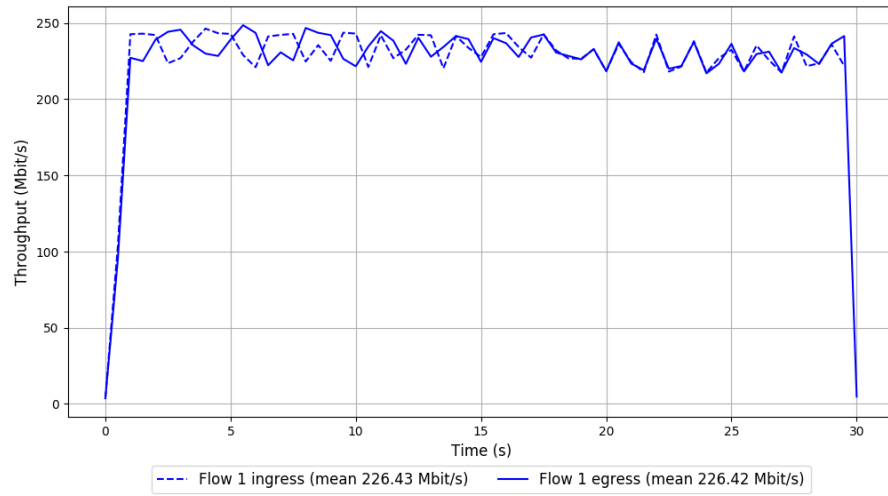
-- Flow 1:

Average throughput: 226.42 Mbit/s

95th percentile per-packet one-way delay: 59.126 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-13 07:05:24

End at: 2018-03-13 07:05:54

Below is generated by plot.py at 2018-03-13 10:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.72 Mbit/s

95th percentile per-packet one-way delay: 59.379 ms

Loss rate: 0.00%

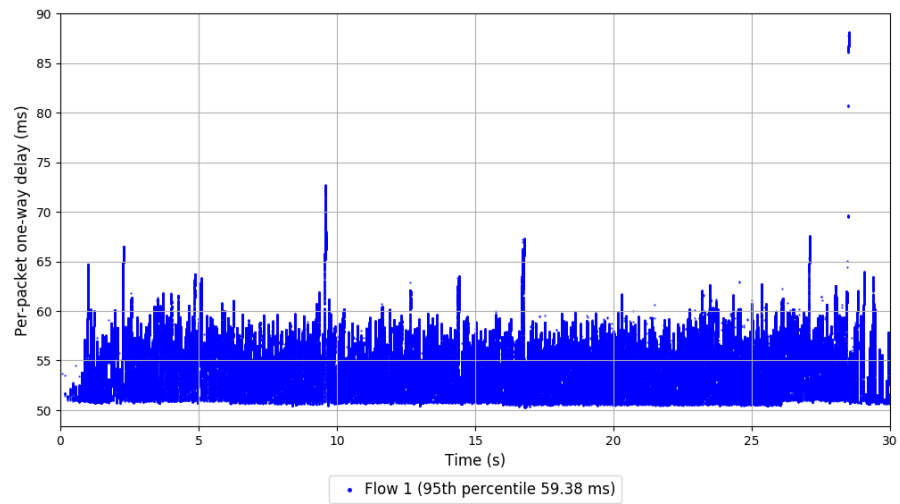
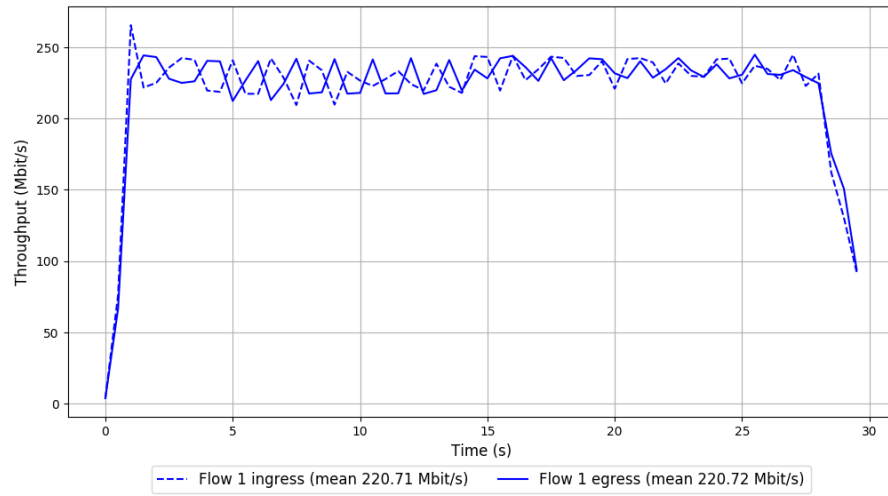
-- Flow 1:

Average throughput: 220.72 Mbit/s

95th percentile per-packet one-way delay: 59.379 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-13 07:19:57

End at: 2018-03-13 07:20:27

Below is generated by plot.py at 2018-03-13 10:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.11 Mbit/s

95th percentile per-packet one-way delay: 57.611 ms

Loss rate: 0.00%

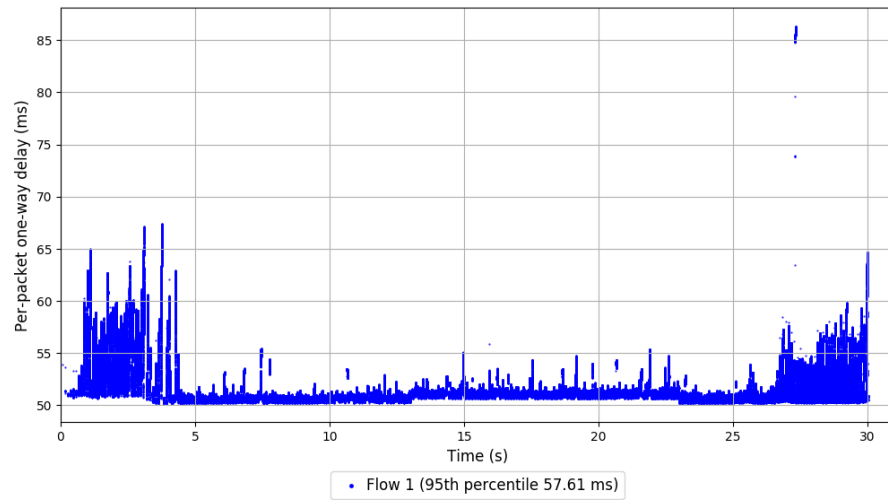
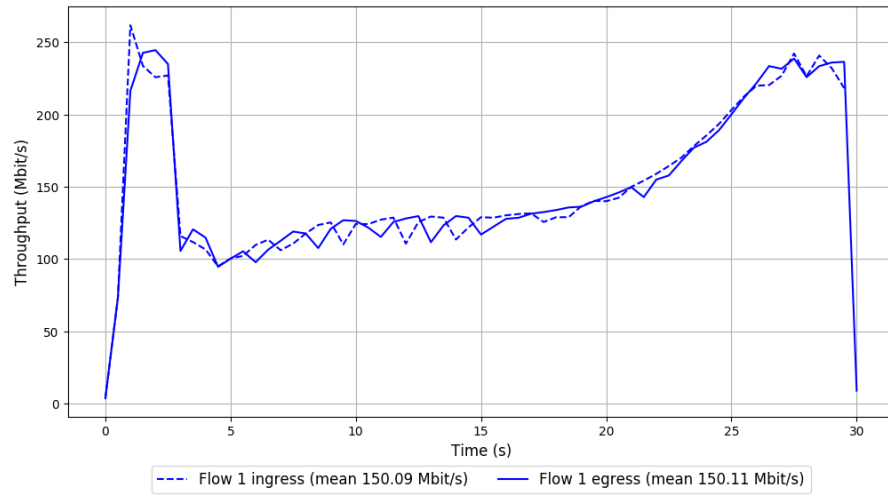
-- Flow 1:

Average throughput: 150.11 Mbit/s

95th percentile per-packet one-way delay: 57.611 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-13 07:34:14

End at: 2018-03-13 07:34:44

Below is generated by plot.py at 2018-03-13 10:34:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.72 Mbit/s

95th percentile per-packet one-way delay: 57.904 ms

Loss rate: 0.00%

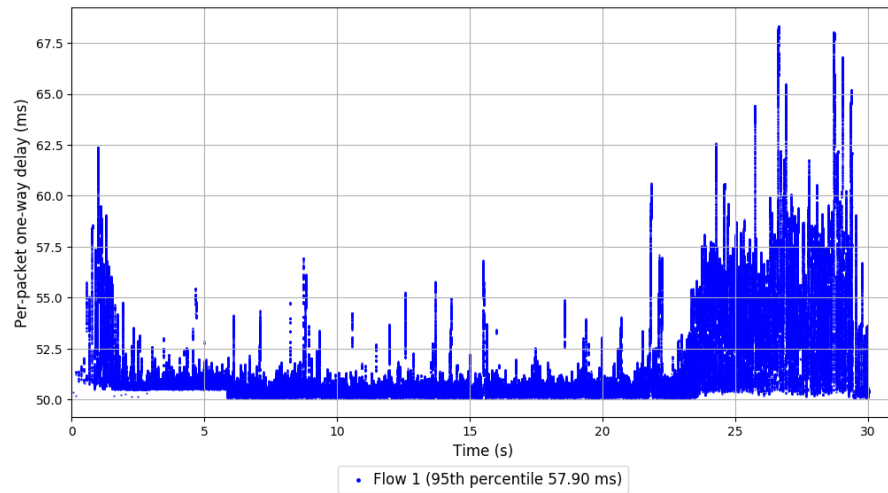
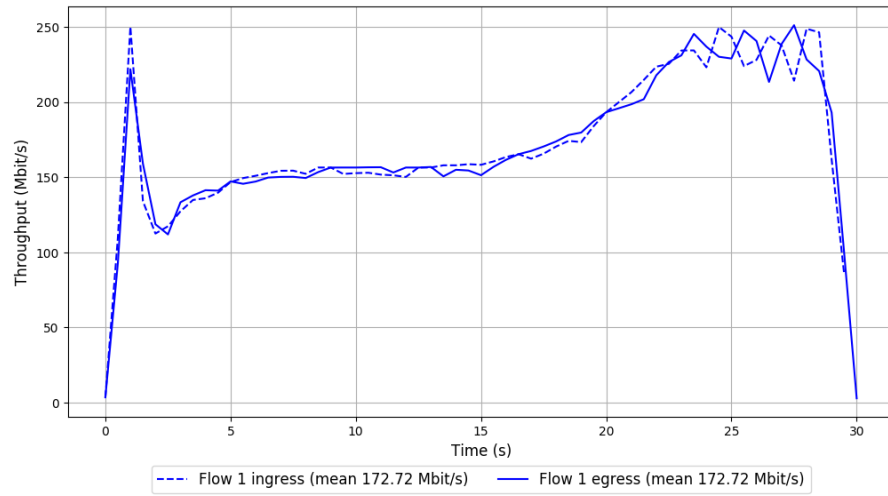
-- Flow 1:

Average throughput: 172.72 Mbit/s

95th percentile per-packet one-way delay: 57.904 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-13 07:48:28

End at: 2018-03-13 07:48:58

Below is generated by plot.py at 2018-03-13 10:35:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.64 Mbit/s

95th percentile per-packet one-way delay: 58.007 ms

Loss rate: 0.00%

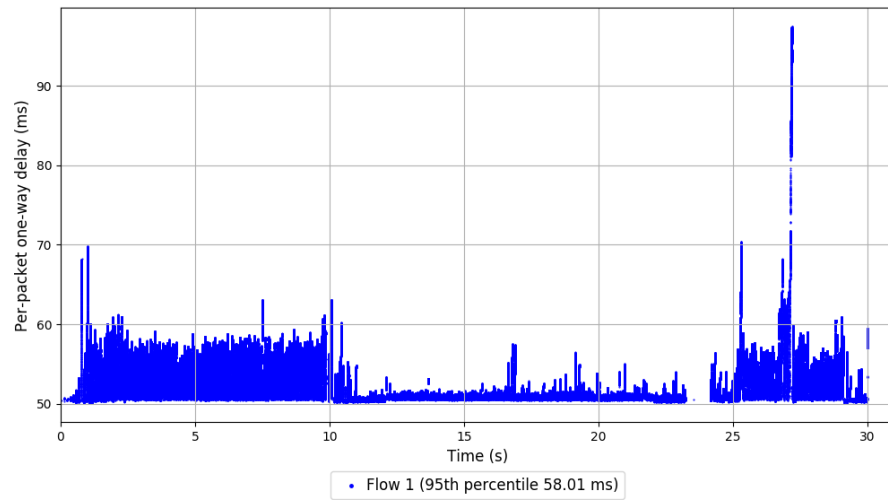
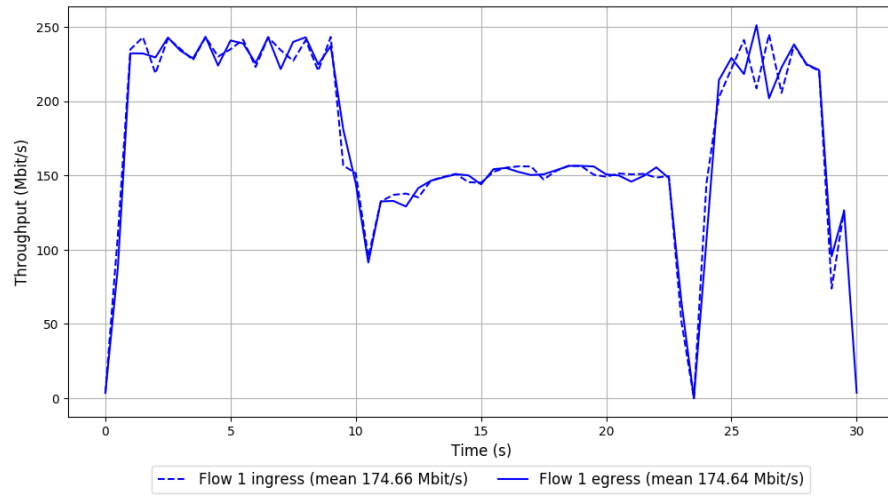
-- Flow 1:

Average throughput: 174.64 Mbit/s

95th percentile per-packet one-way delay: 58.007 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-13 08:02:40

End at: 2018-03-13 08:03:10

Below is generated by plot.py at 2018-03-13 10:35:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.91 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.00%

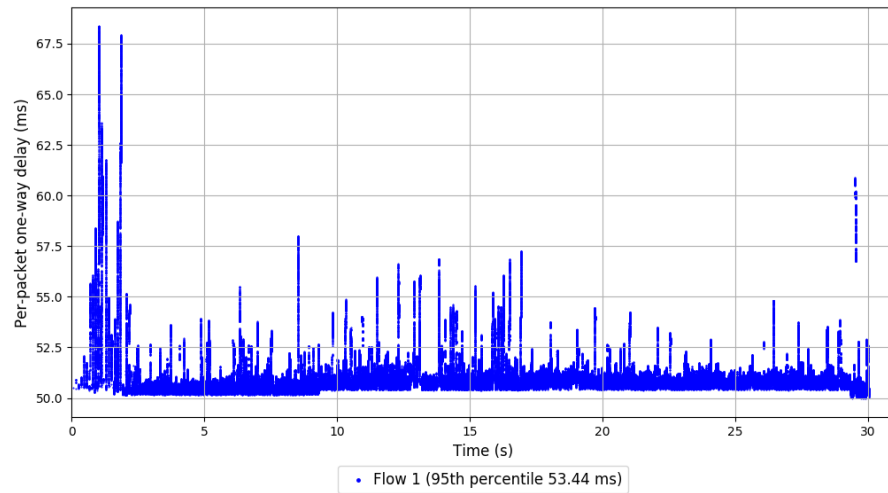
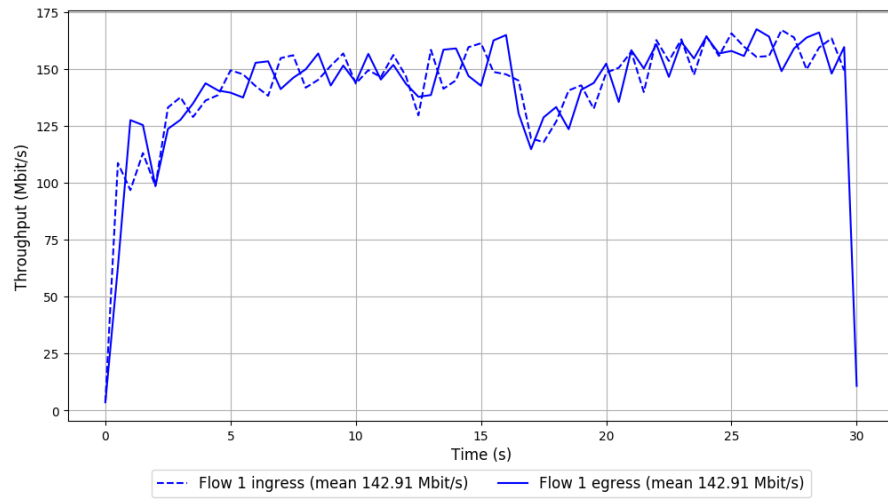
-- Flow 1:

Average throughput: 142.91 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-13 08:16:43

End at: 2018-03-13 08:17:13

Below is generated by plot.py at 2018-03-13 10:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.90 Mbit/s

95th percentile per-packet one-way delay: 60.391 ms

Loss rate: 0.00%

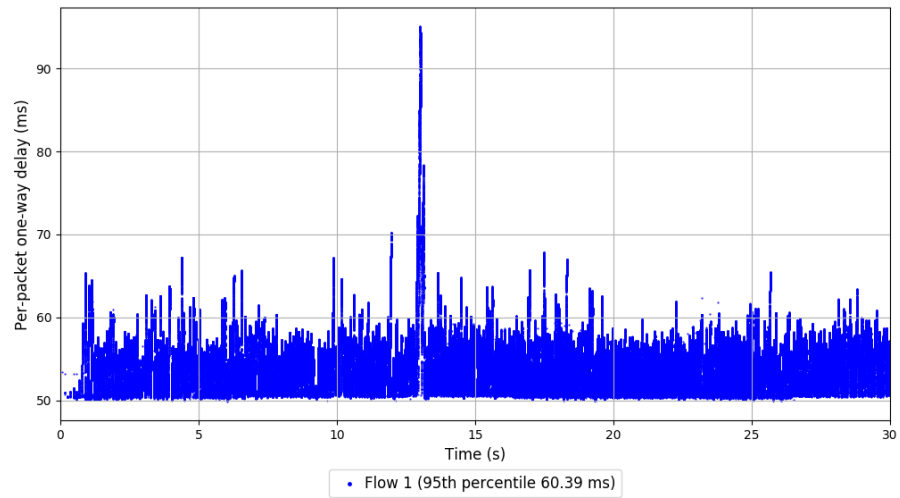
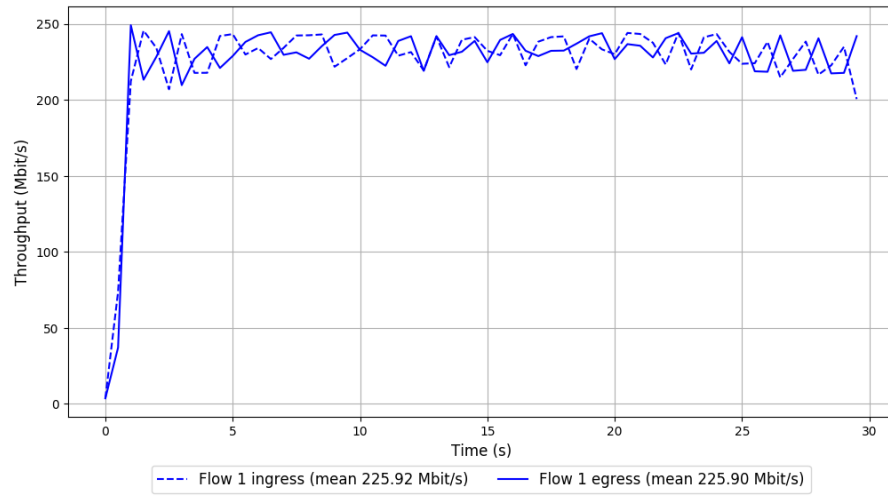
-- Flow 1:

Average throughput: 225.90 Mbit/s

95th percentile per-packet one-way delay: 60.391 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

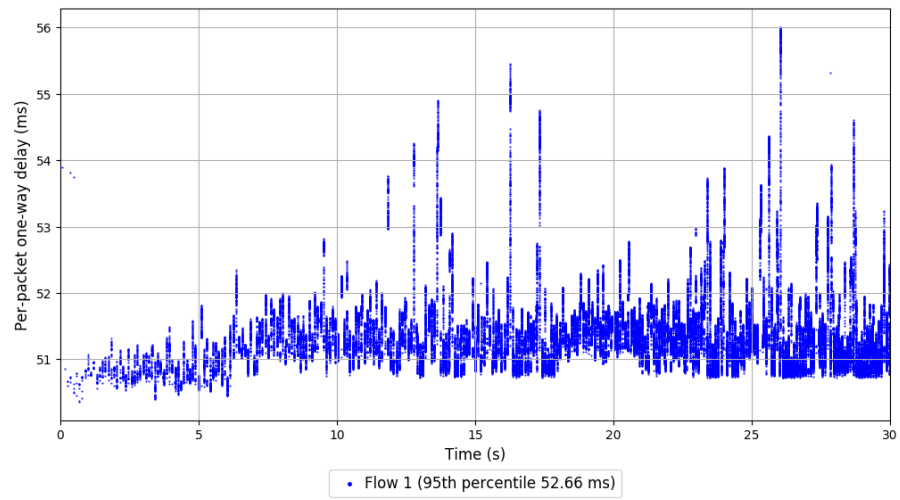
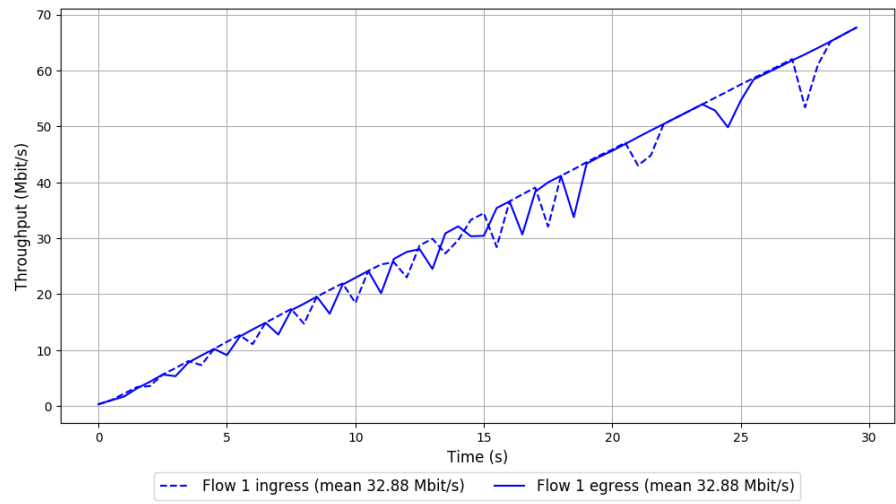


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-13 05:58:03
End at: 2018-03-13 05:58:34

# Below is generated by plot.py at 2018-03-13 10:36:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 52.664 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 52.664 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

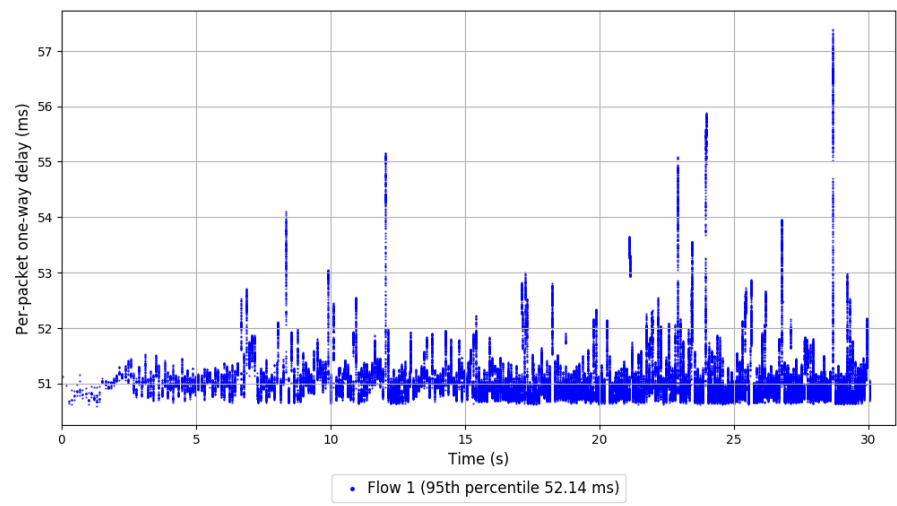
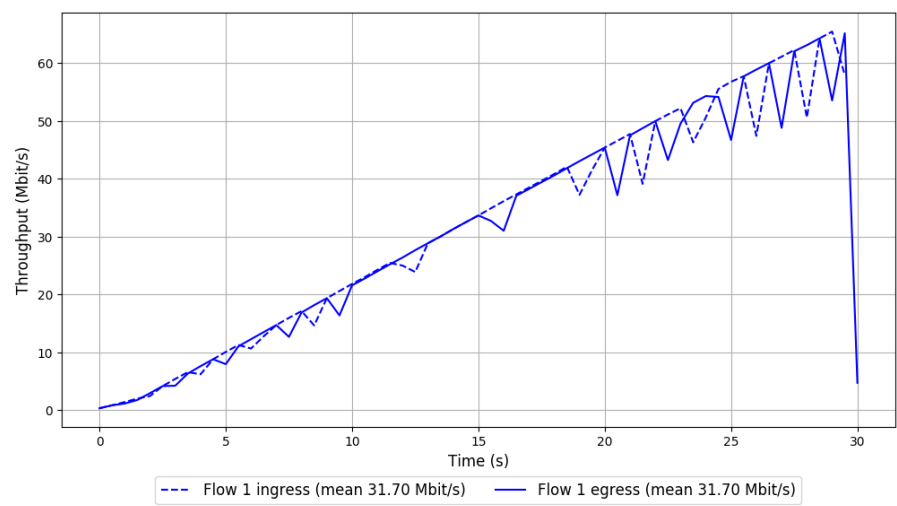


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-13 06:12:38
End at: 2018-03-13 06:13:08

# Below is generated by plot.py at 2018-03-13 10:36:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 52.140 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.70 Mbit/s
95th percentile per-packet one-way delay: 52.140 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-13 06:26:48

End at: 2018-03-13 06:27:18

Below is generated by plot.py at 2018-03-13 10:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 51.972 ms

Loss rate: 0.00%

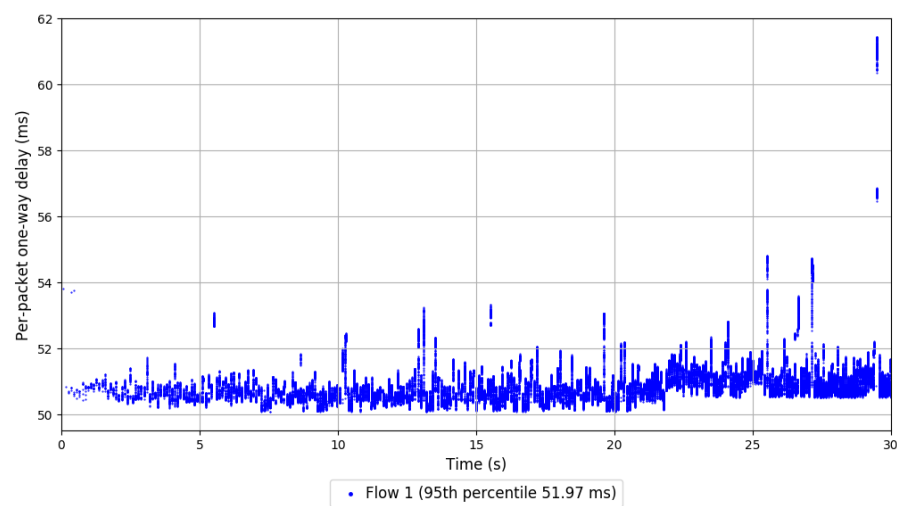
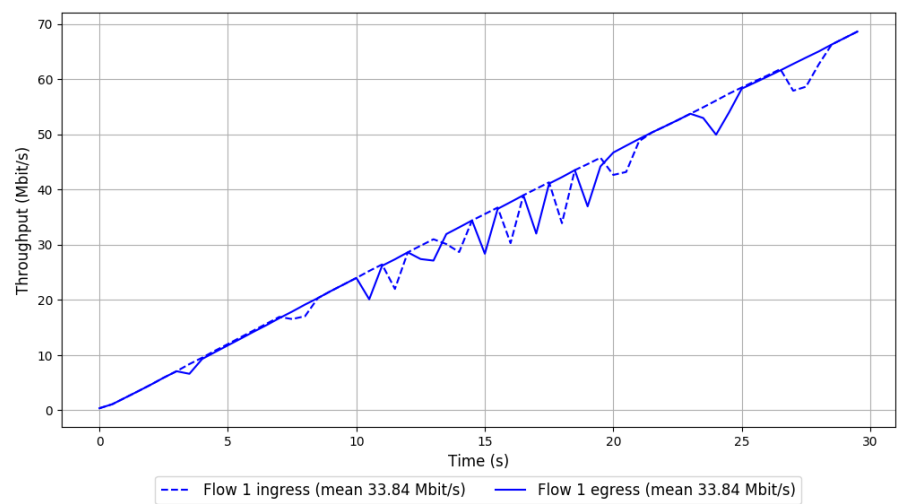
-- Flow 1:

Average throughput: 33.84 Mbit/s

95th percentile per-packet one-way delay: 51.972 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-13 06:41:22

End at: 2018-03-13 06:41:52

Below is generated by plot.py at 2018-03-13 10:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 51.750 ms

Loss rate: 0.01%

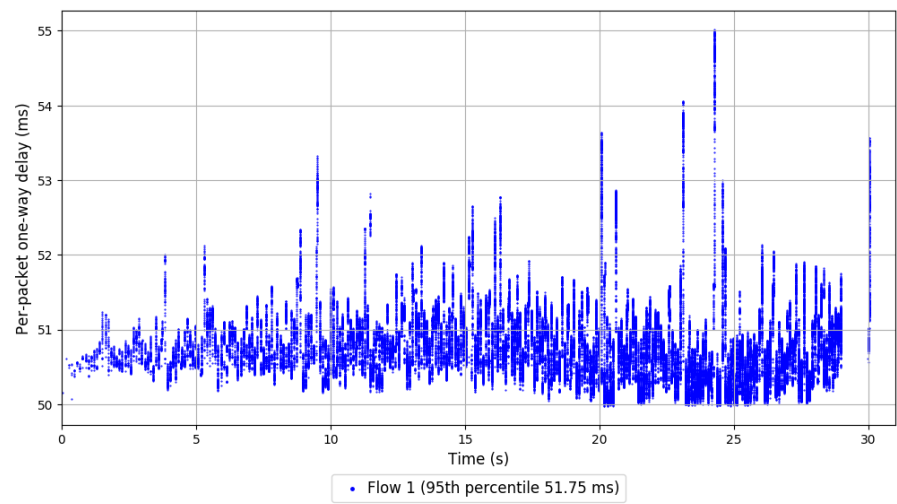
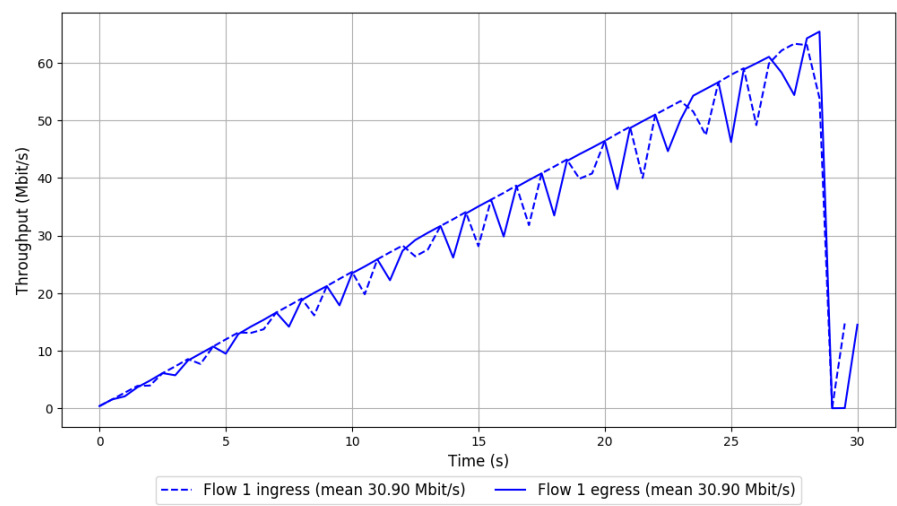
-- Flow 1:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 51.750 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-13 06:55:56

End at: 2018-03-13 06:56:26

Below is generated by plot.py at 2018-03-13 10:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 52.727 ms

Loss rate: 0.00%

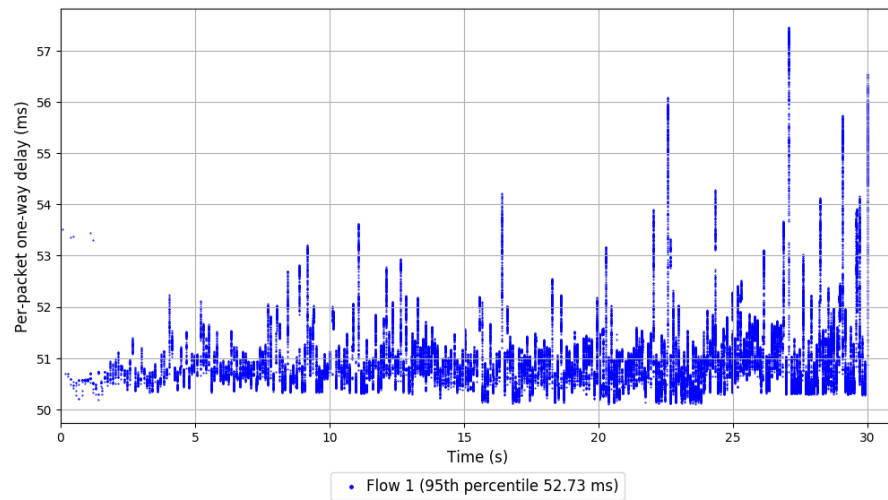
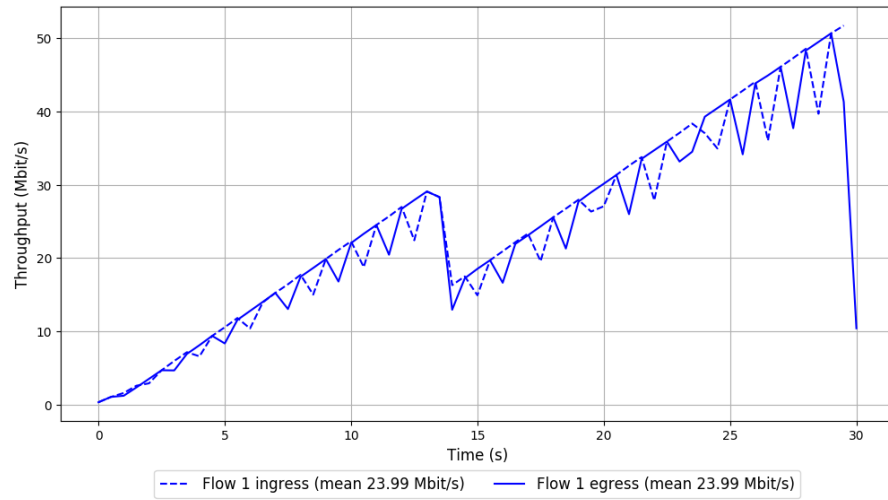
-- Flow 1:

Average throughput: 23.99 Mbit/s

95th percentile per-packet one-way delay: 52.727 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-13 07:10:14

End at: 2018-03-13 07:10:44

Below is generated by plot.py at 2018-03-13 10:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 52.465 ms

Loss rate: 0.00%

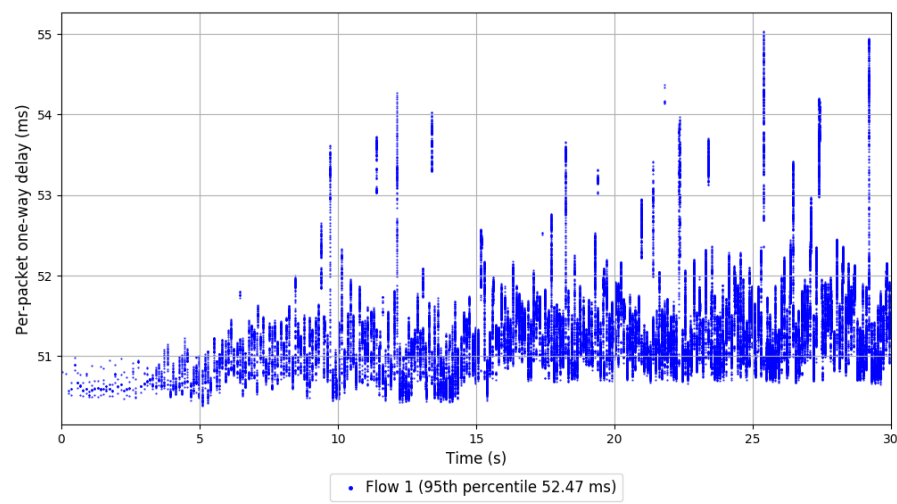
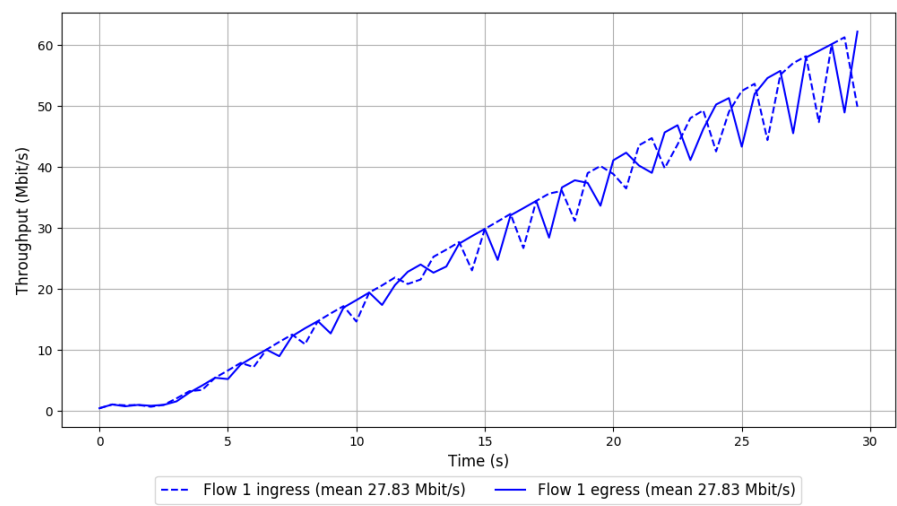
-- Flow 1:

Average throughput: 27.83 Mbit/s

95th percentile per-packet one-way delay: 52.465 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-13 07:24:52

End at: 2018-03-13 07:25:22

Below is generated by plot.py at 2018-03-13 10:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.68 Mbit/s

95th percentile per-packet one-way delay: 52.216 ms

Loss rate: 0.00%

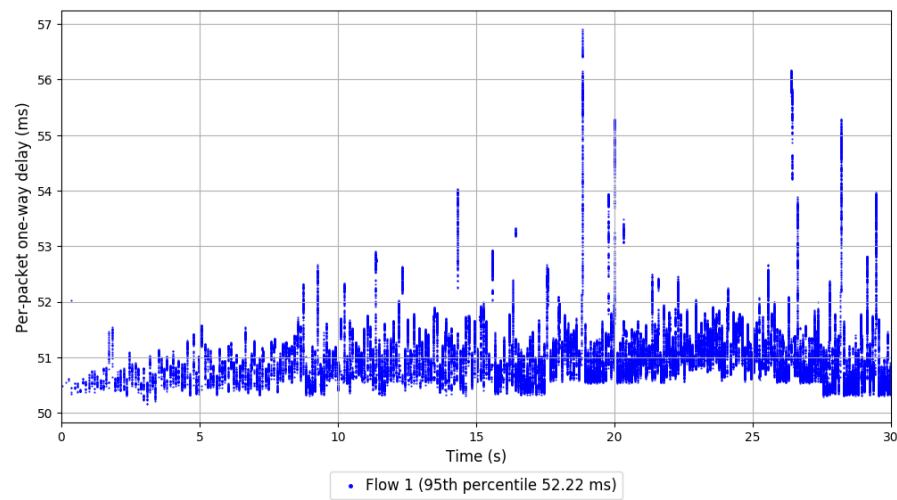
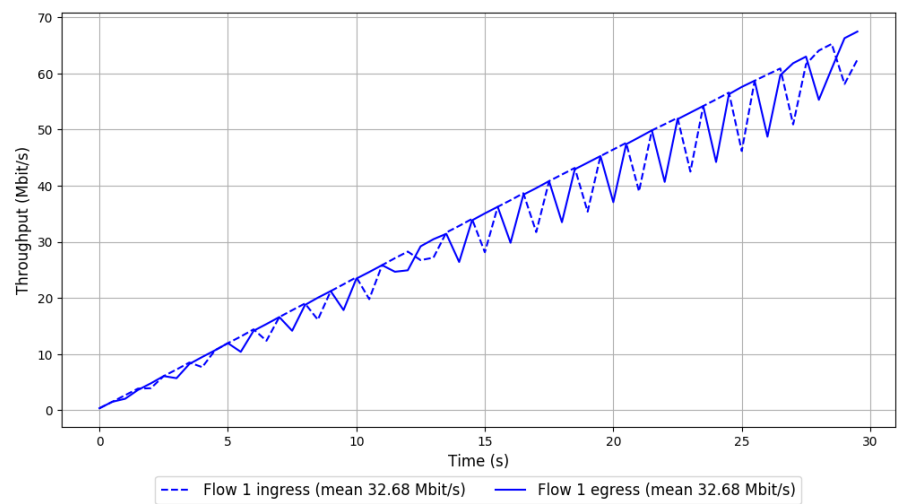
-- Flow 1:

Average throughput: 32.68 Mbit/s

95th percentile per-packet one-way delay: 52.216 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-13 07:39:05

End at: 2018-03-13 07:39:35

Below is generated by plot.py at 2018-03-13 10:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.74 Mbit/s

95th percentile per-packet one-way delay: 52.985 ms

Loss rate: 0.00%

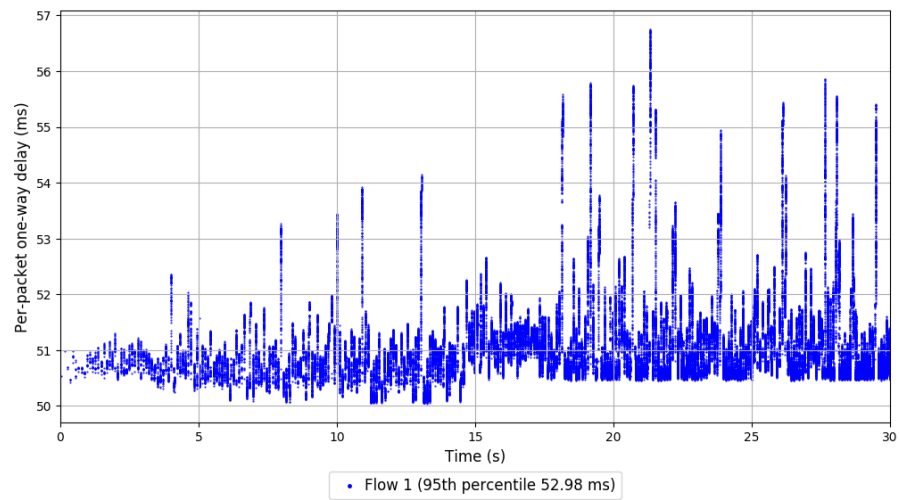
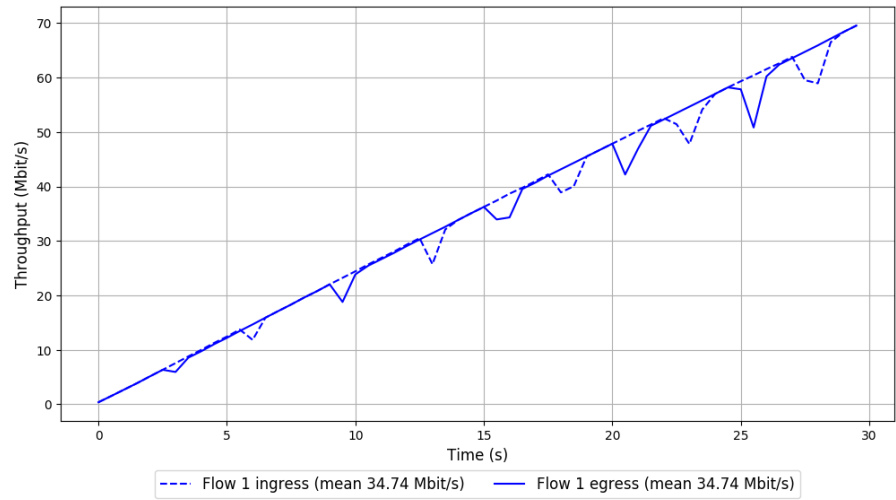
-- Flow 1:

Average throughput: 34.74 Mbit/s

95th percentile per-packet one-way delay: 52.985 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-13 07:53:14

End at: 2018-03-13 07:53:44

Below is generated by plot.py at 2018-03-13 10:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.06 Mbit/s

95th percentile per-packet one-way delay: 52.048 ms

Loss rate: 0.00%

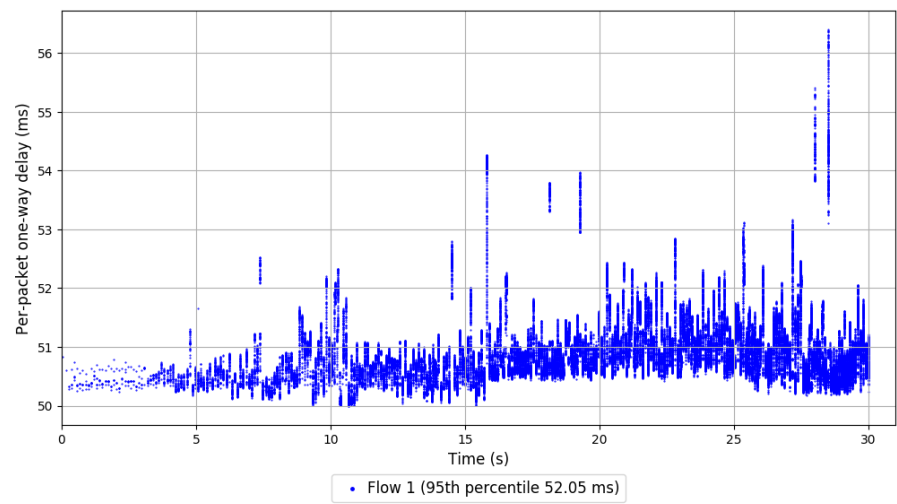
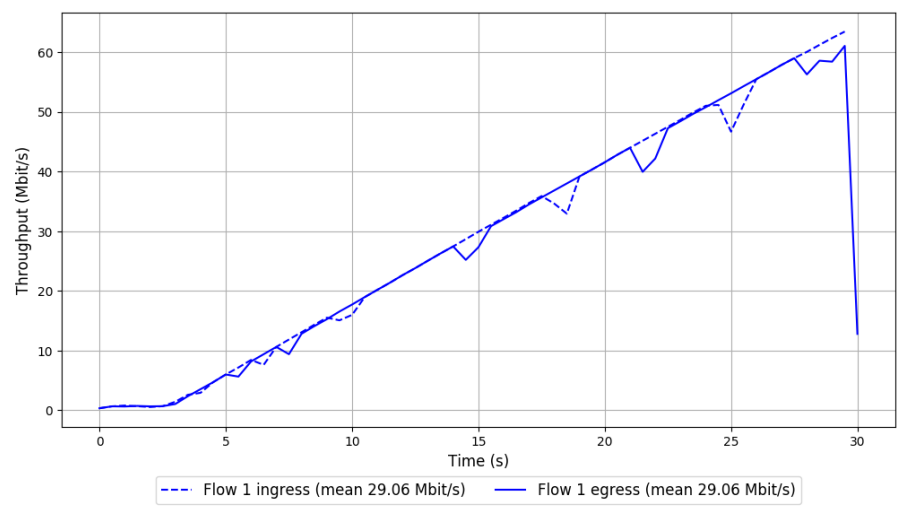
-- Flow 1:

Average throughput: 29.06 Mbit/s

95th percentile per-packet one-way delay: 52.048 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-13 08:07:27

End at: 2018-03-13 08:07:57

Below is generated by plot.py at 2018-03-13 10:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 52.591 ms

Loss rate: 0.00%

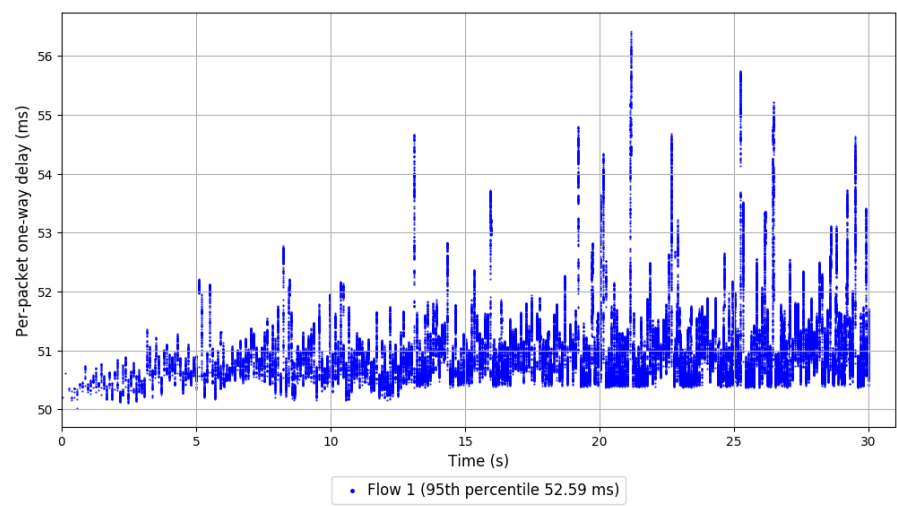
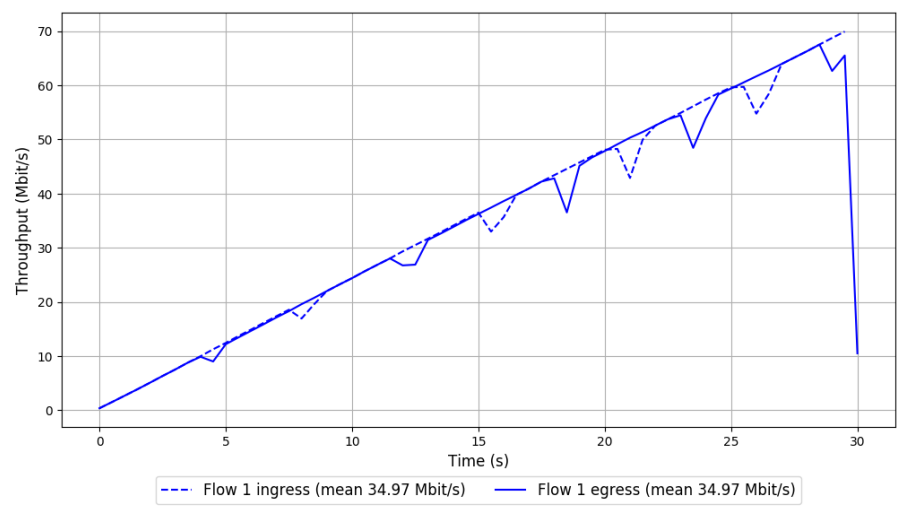
-- Flow 1:

Average throughput: 34.97 Mbit/s

95th percentile per-packet one-way delay: 52.591 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

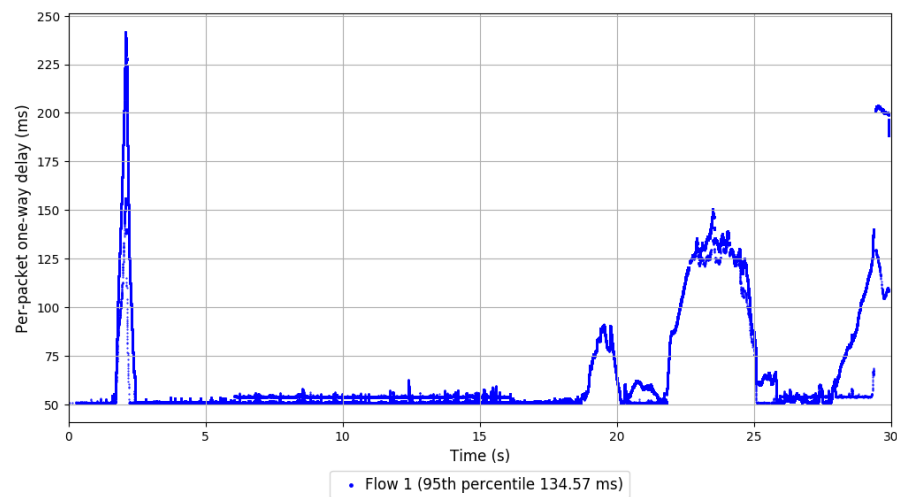
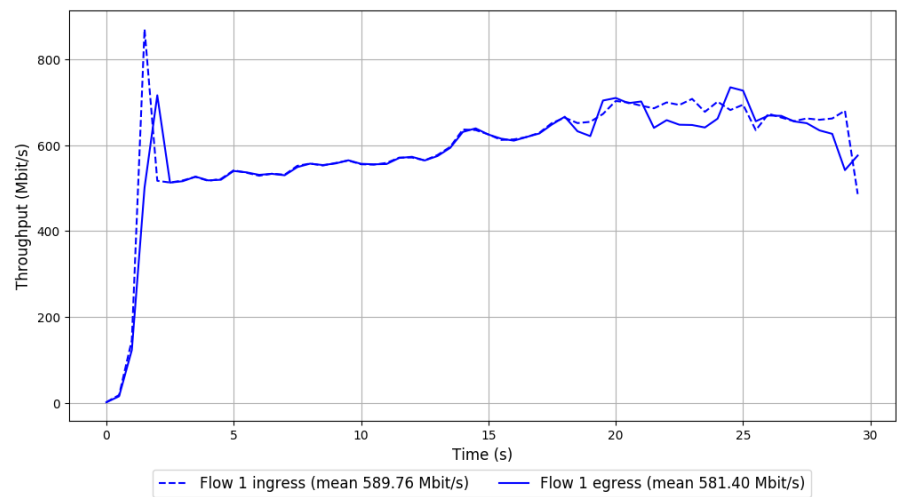


```
Run 1: Statistics of PCC

Start at: 2018-03-13 06:06:04
End at: 2018-03-13 06:06:34

# Below is generated by plot.py at 2018-03-13 10:47:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 581.40 Mbit/s
95th percentile per-packet one-way delay: 134.569 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 581.40 Mbit/s
95th percentile per-packet one-way delay: 134.569 ms
Loss rate: 1.42%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-13 06:20:23

End at: 2018-03-13 06:20:53

Below is generated by plot.py at 2018-03-13 10:47:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.66 Mbit/s

95th percentile per-packet one-way delay: 84.585 ms

Loss rate: 0.48%

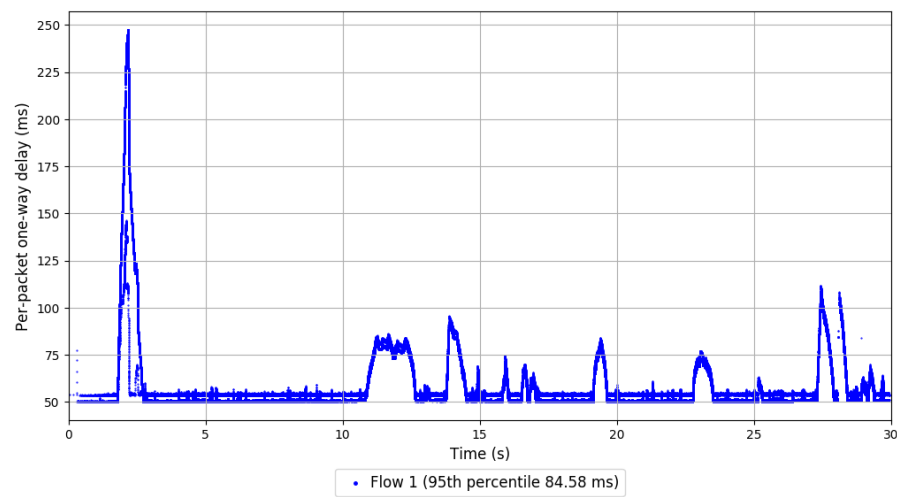
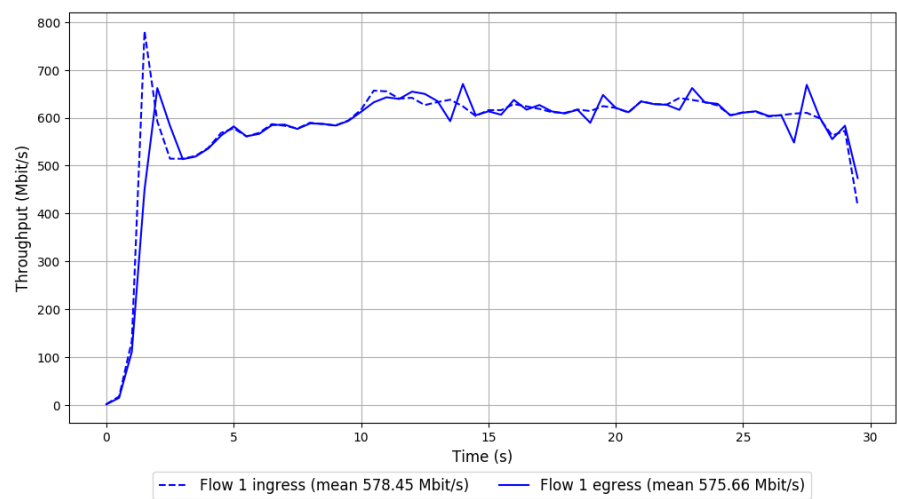
-- Flow 1:

Average throughput: 575.66 Mbit/s

95th percentile per-packet one-way delay: 84.585 ms

Loss rate: 0.48%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-13 06:34:57

End at: 2018-03-13 06:35:27

Below is generated by plot.py at 2018-03-13 10:47:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 577.20 Mbit/s

95th percentile per-packet one-way delay: 162.435 ms

Loss rate: 0.65%

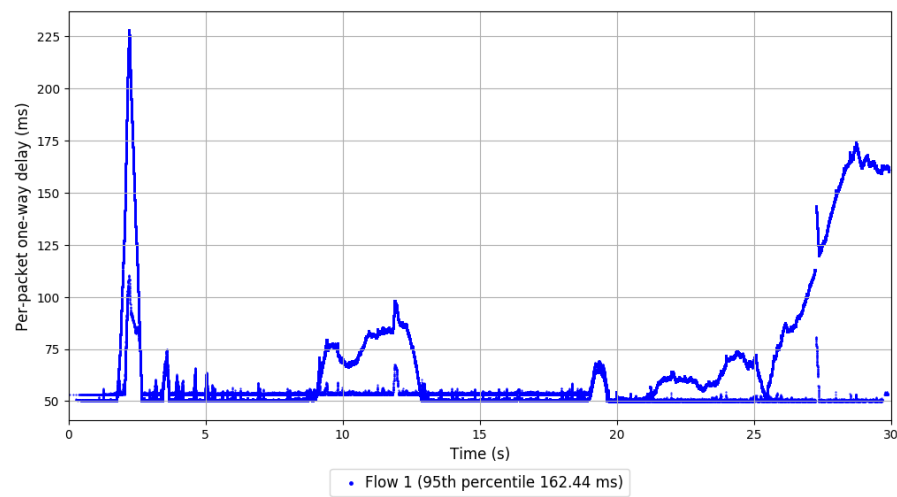
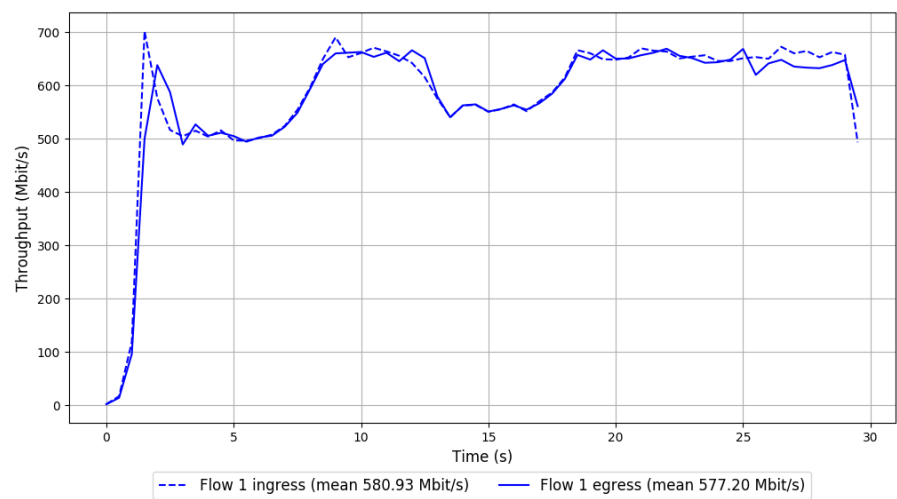
-- Flow 1:

Average throughput: 577.20 Mbit/s

95th percentile per-packet one-way delay: 162.435 ms

Loss rate: 0.65%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-13 06:49:28

End at: 2018-03-13 06:49:58

Below is generated by plot.py at 2018-03-13 10:47:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 592.50 Mbit/s

95th percentile per-packet one-way delay: 120.535 ms

Loss rate: 0.26%

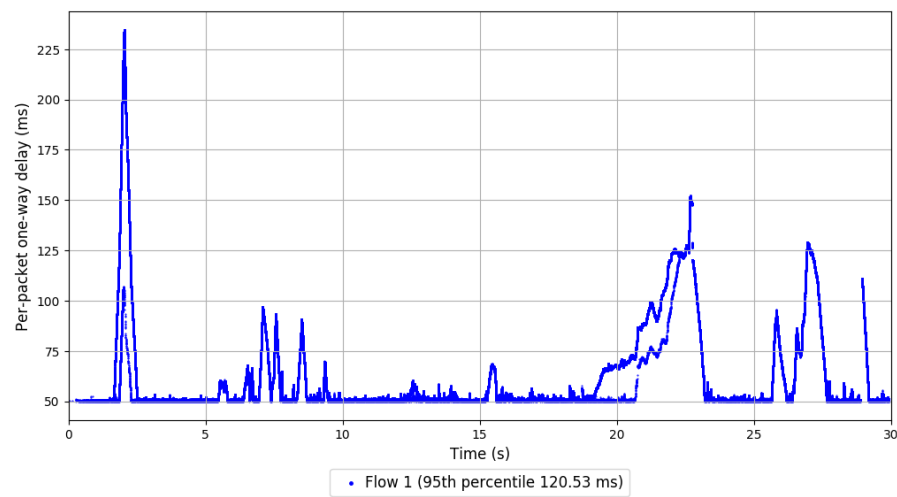
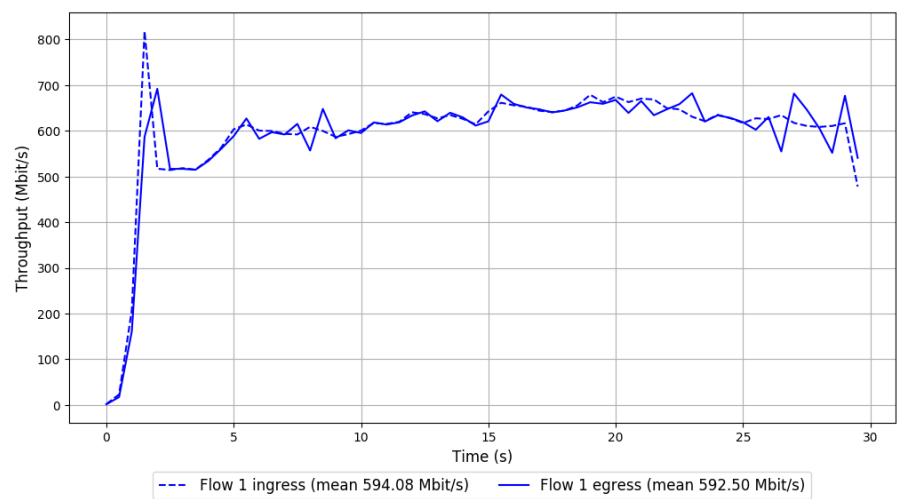
-- Flow 1:

Average throughput: 592.50 Mbit/s

95th percentile per-packet one-way delay: 120.535 ms

Loss rate: 0.26%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-13 07:03:46

End at: 2018-03-13 07:04:16

Below is generated by plot.py at 2018-03-13 10:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 593.53 Mbit/s

95th percentile per-packet one-way delay: 136.272 ms

Loss rate: 0.72%

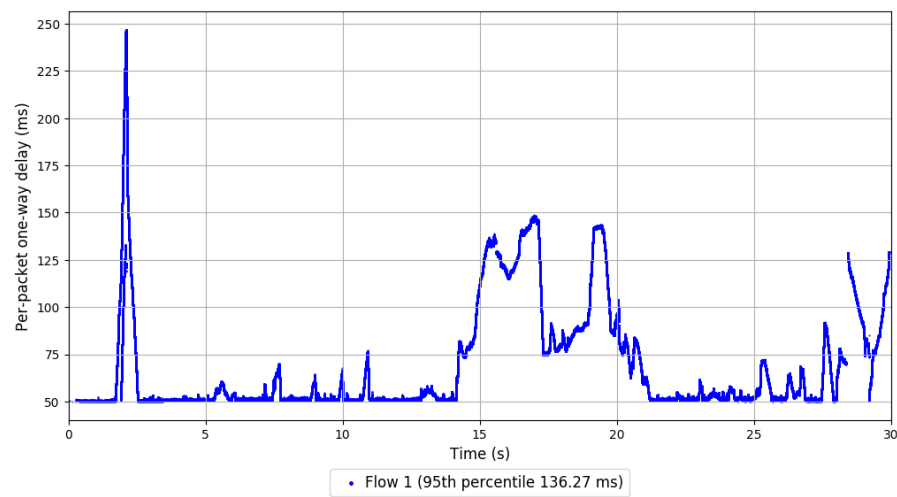
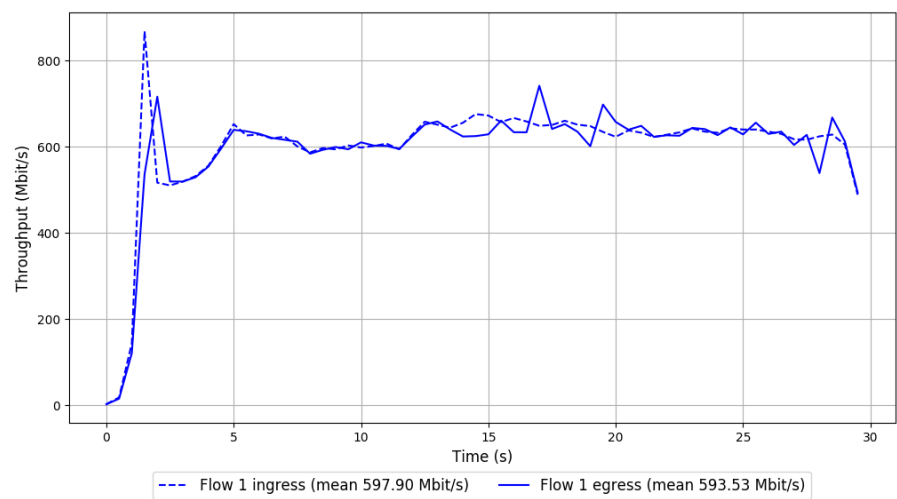
-- Flow 1:

Average throughput: 593.53 Mbit/s

95th percentile per-packet one-way delay: 136.272 ms

Loss rate: 0.72%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-13 07:18:25

End at: 2018-03-13 07:18:55

Below is generated by plot.py at 2018-03-13 10:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.01 Mbit/s

95th percentile per-packet one-way delay: 72.949 ms

Loss rate: 0.11%

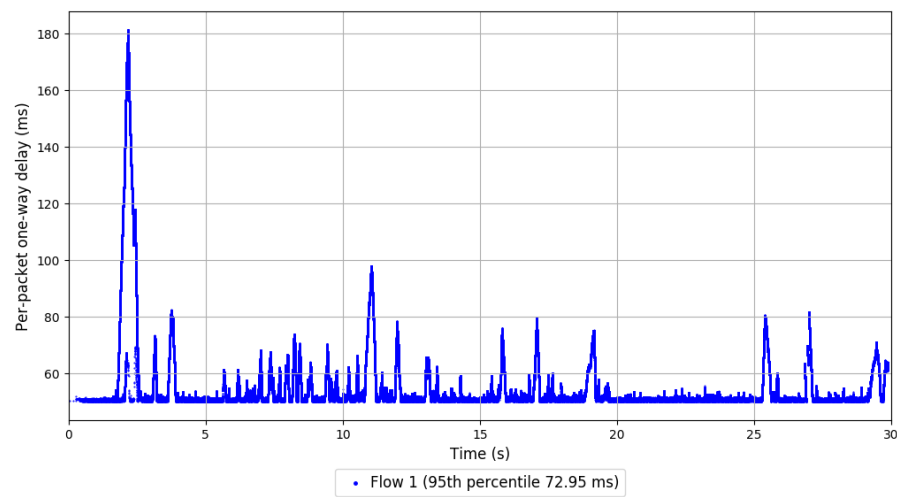
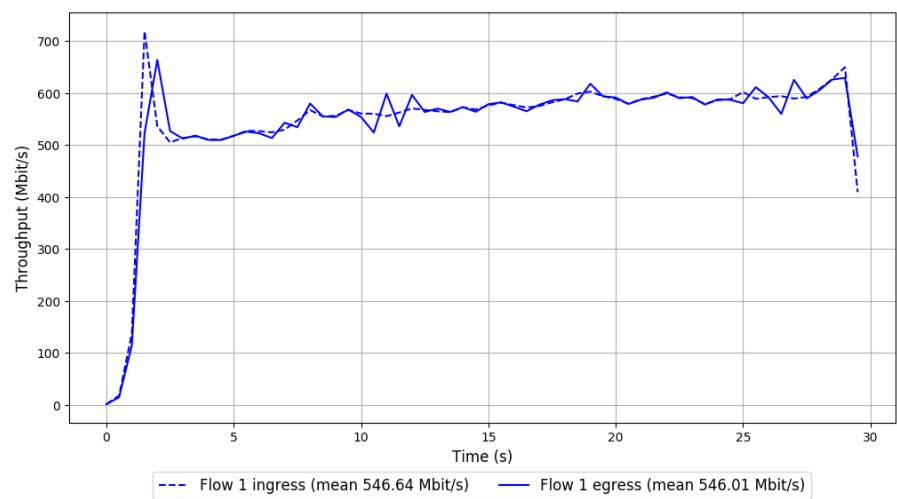
-- Flow 1:

Average throughput: 546.01 Mbit/s

95th percentile per-packet one-way delay: 72.949 ms

Loss rate: 0.11%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-13 07:32:40

End at: 2018-03-13 07:33:10

Below is generated by plot.py at 2018-03-13 10:48:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.34 Mbit/s

95th percentile per-packet one-way delay: 125.702 ms

Loss rate: 0.65%

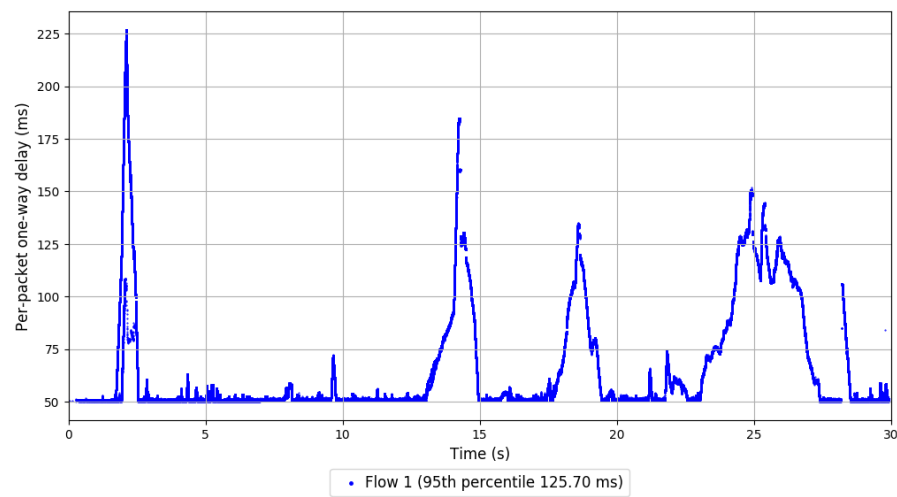
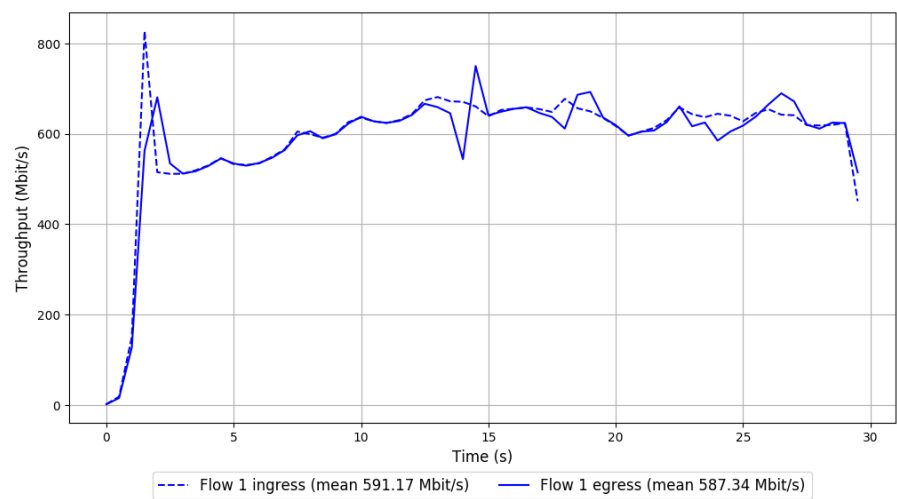
-- Flow 1:

Average throughput: 587.34 Mbit/s

95th percentile per-packet one-way delay: 125.702 ms

Loss rate: 0.65%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-13 07:46:56

End at: 2018-03-13 07:47:26

Below is generated by plot.py at 2018-03-13 10:50:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.39 Mbit/s

95th percentile per-packet one-way delay: 101.297 ms

Loss rate: 0.23%

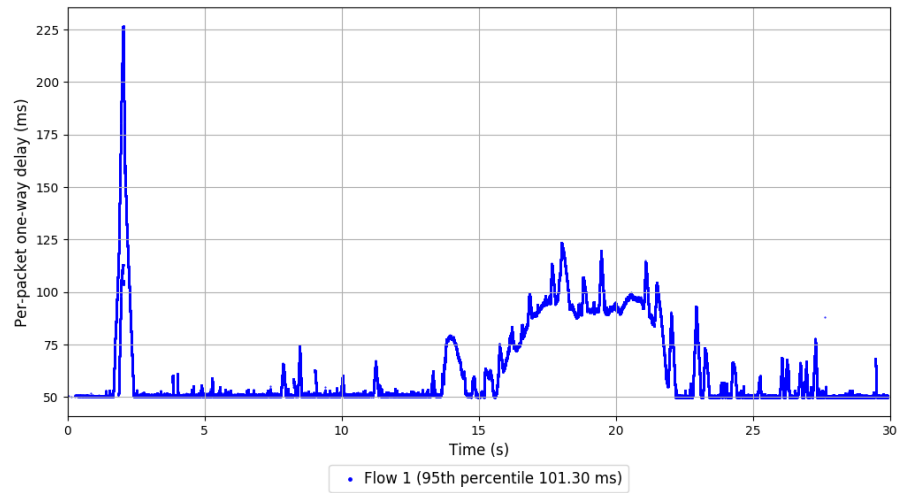
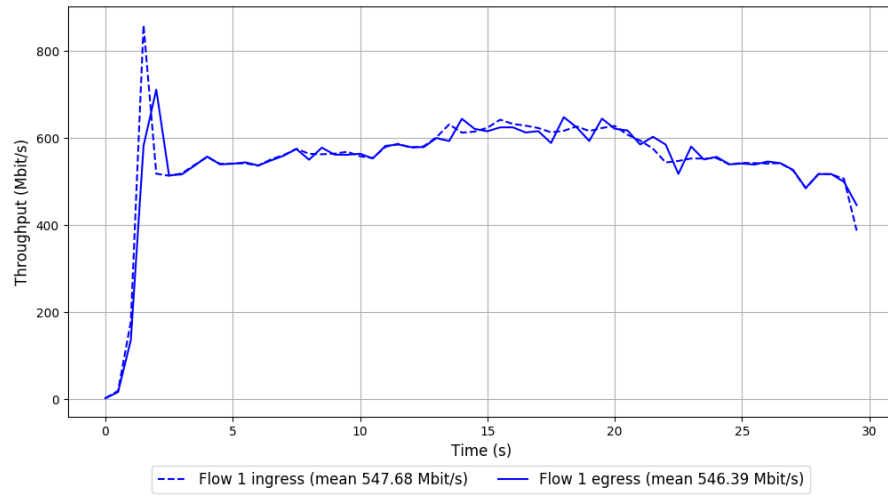
-- Flow 1:

Average throughput: 546.39 Mbit/s

95th percentile per-packet one-way delay: 101.297 ms

Loss rate: 0.23%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-13 08:01:07

End at: 2018-03-13 08:01:37

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 596.29 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 1.63%

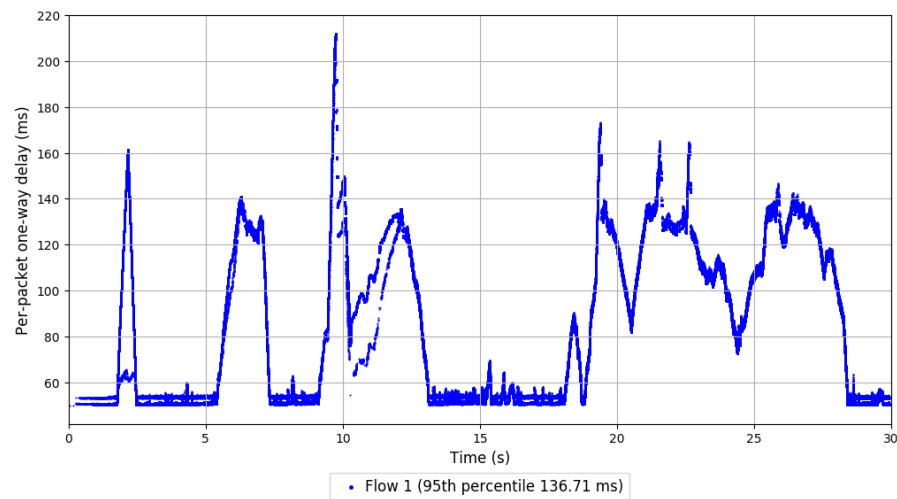
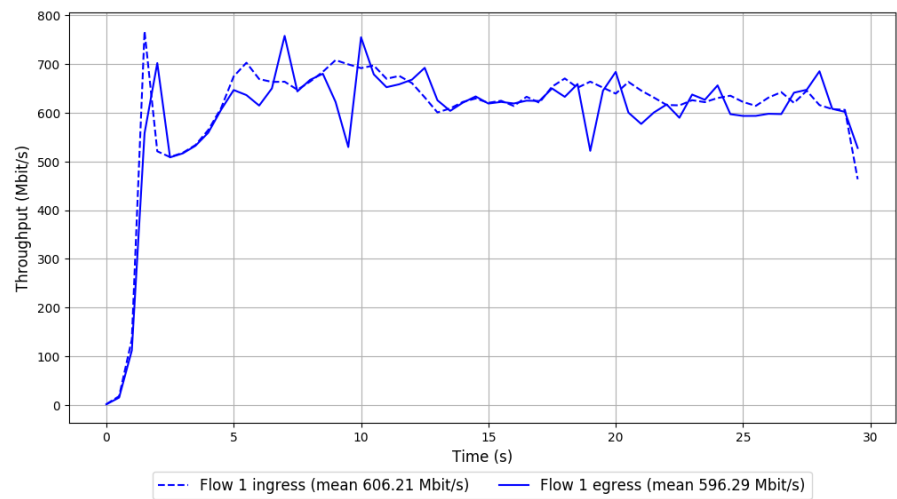
-- Flow 1:

Average throughput: 596.29 Mbit/s

95th percentile per-packet one-way delay: 136.709 ms

Loss rate: 1.63%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-13 08:15:11

End at: 2018-03-13 08:15:41

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 542.07 Mbit/s

95th percentile per-packet one-way delay: 80.837 ms

Loss rate: 0.42%

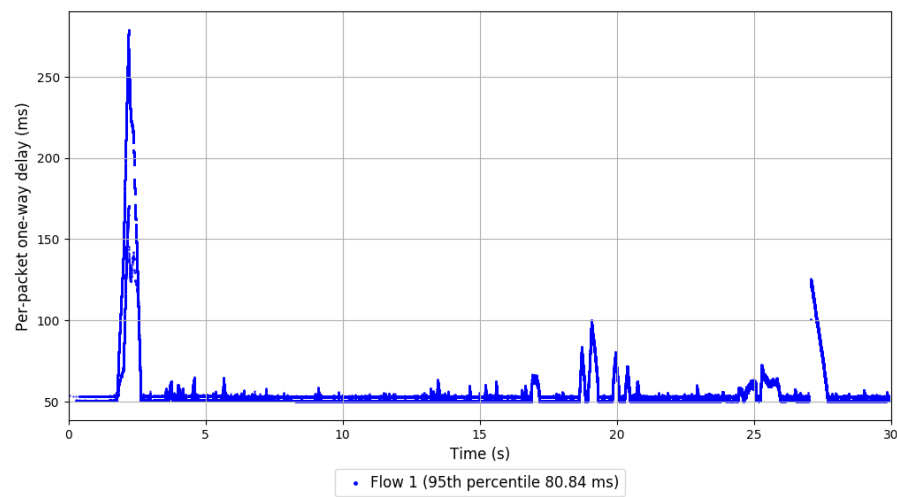
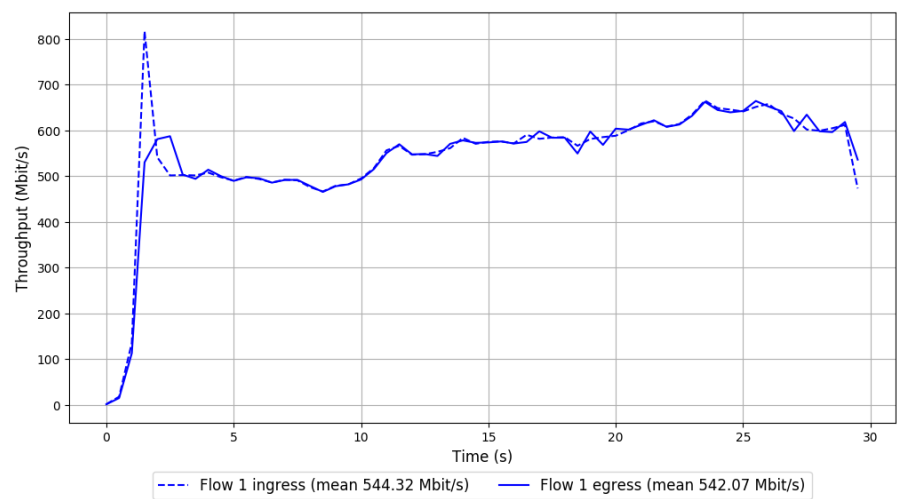
-- Flow 1:

Average throughput: 542.07 Mbit/s

95th percentile per-packet one-way delay: 80.837 ms

Loss rate: 0.42%

Run 10: Report of PCC — Data Link

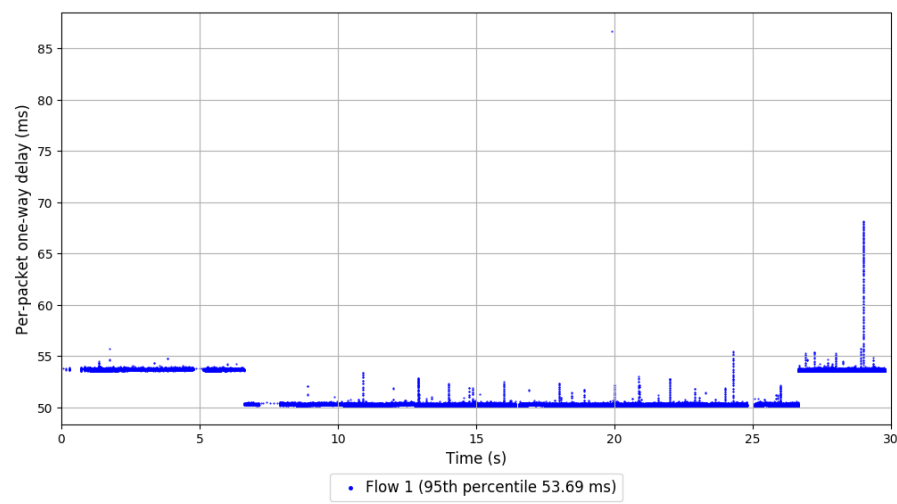
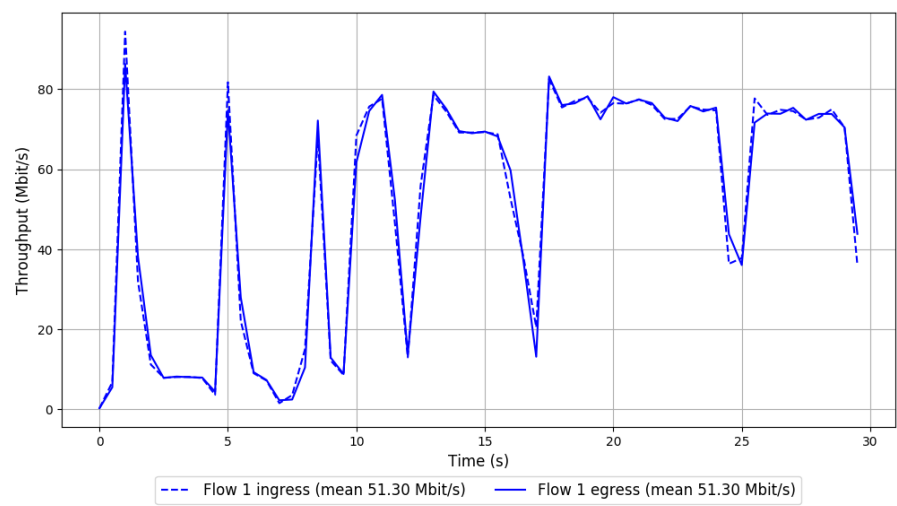


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-13 06:07:00
End at: 2018-03-13 06:07:30

# Below is generated by plot.py at 2018-03-13 11:00:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.30 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.30 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-13 06:21:20

End at: 2018-03-13 06:21:50

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.80 Mbit/s

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

Loss rate: 0.00%

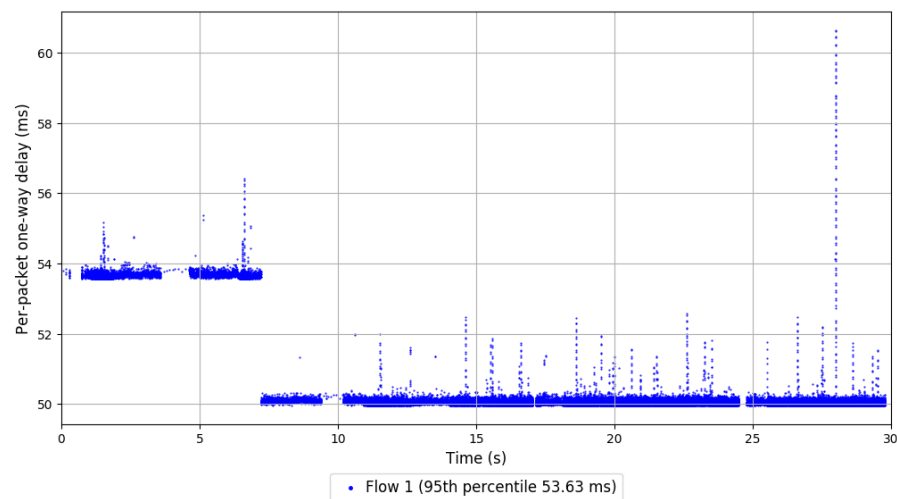
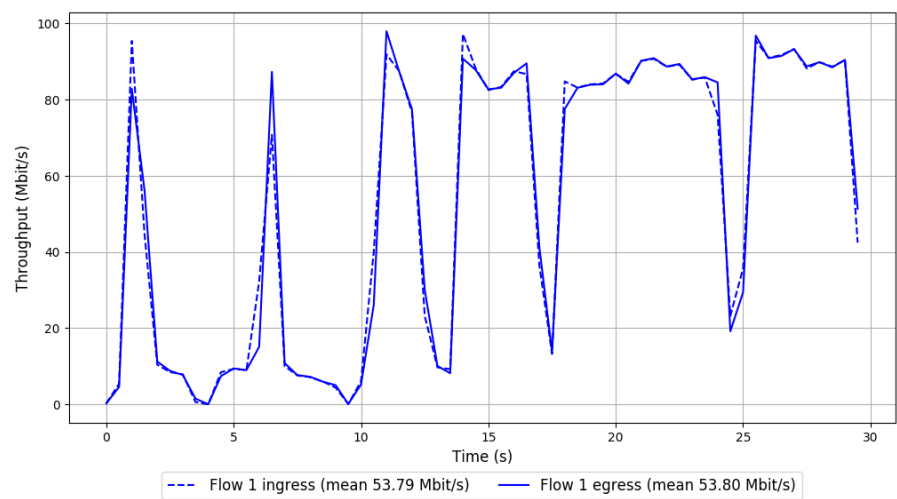
-- Flow 1:

Average throughput: 53.80 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-13 06:35:54

End at: 2018-03-13 06:36:24

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.00%

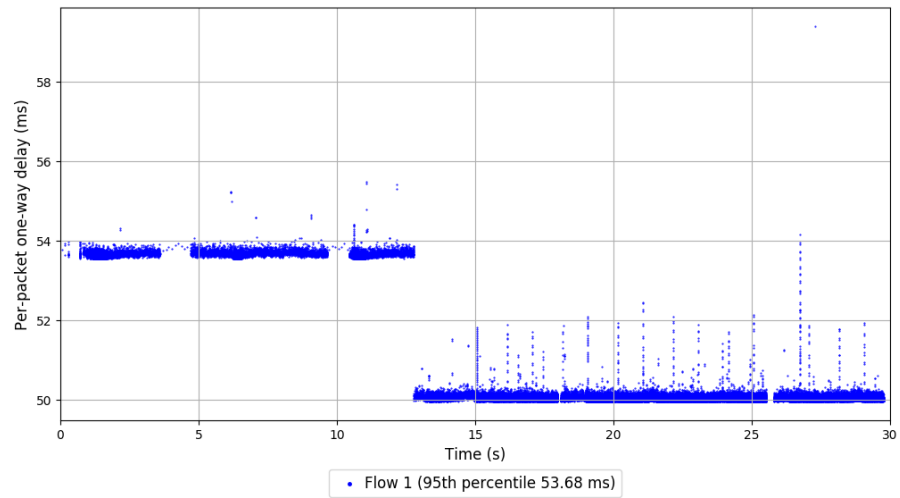
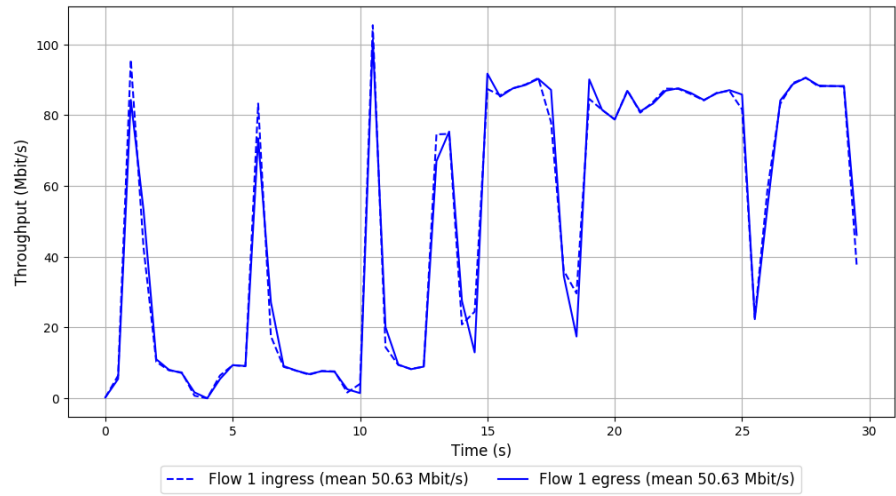
-- Flow 1:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-13 06:50:25

End at: 2018-03-13 06:50:55

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 49.952 ms

Loss rate: 0.00%

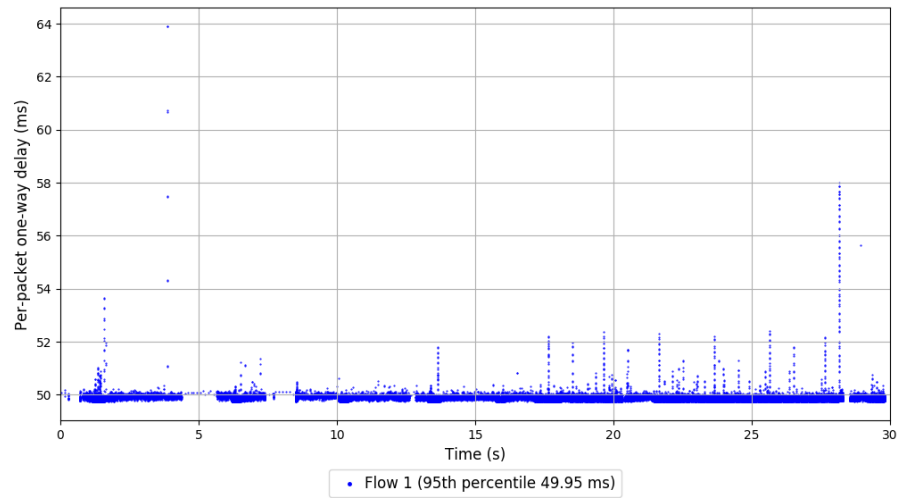
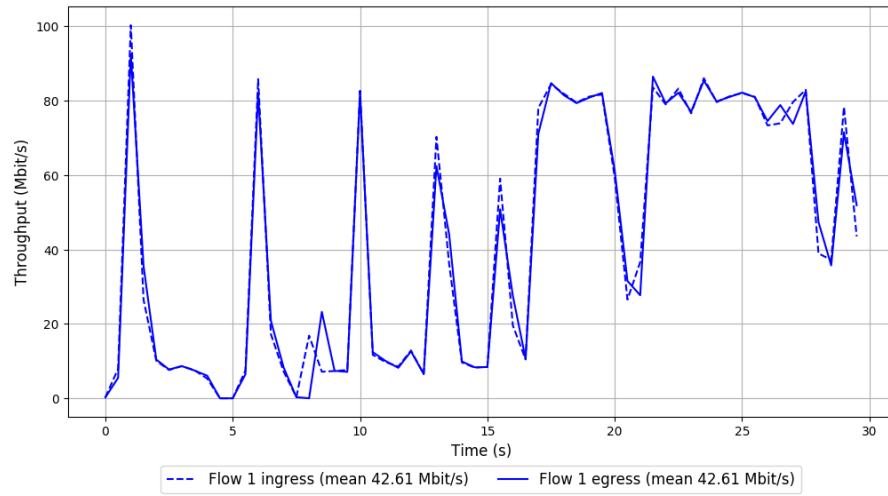
-- Flow 1:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 49.952 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-13 07:04:44

End at: 2018-03-13 07:05:14

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 53.286 ms

Loss rate: 0.01%

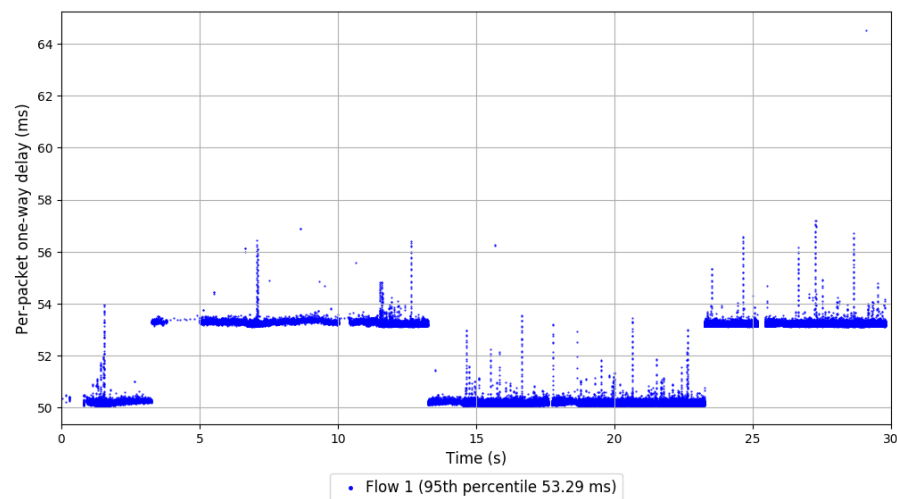
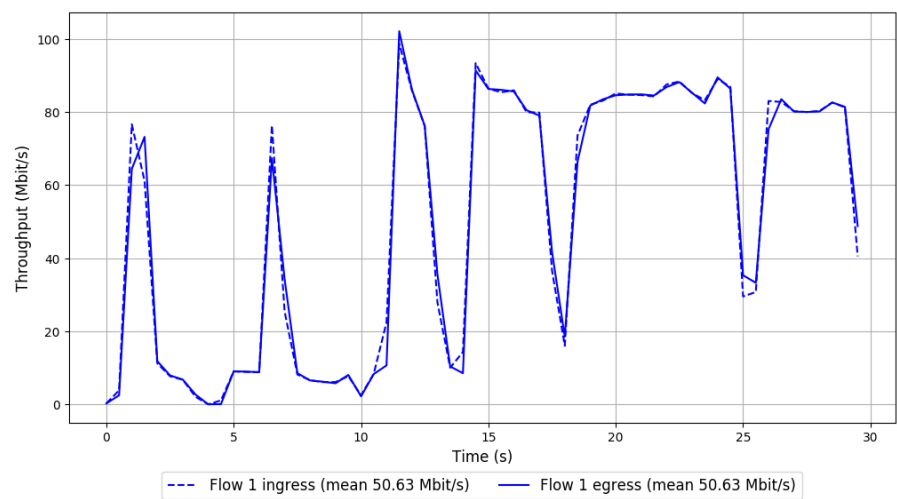
-- Flow 1:

Average throughput: 50.63 Mbit/s

95th percentile per-packet one-way delay: 53.286 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link

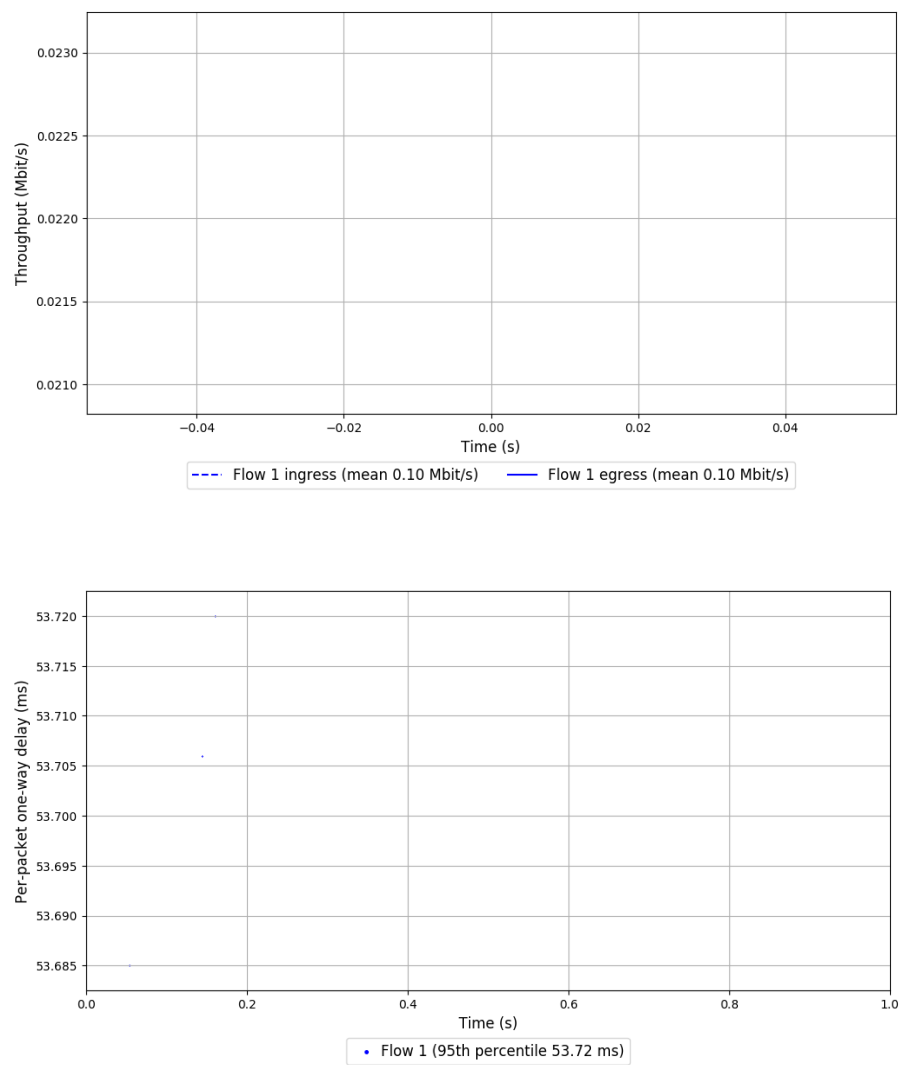


Run 6: Statistics of QUIC Cubic

Start at: 2018-03-13 07:19:20

End at: 2018-03-13 07:19:50

Run 6: Report of QUIC Cubic — Data Link

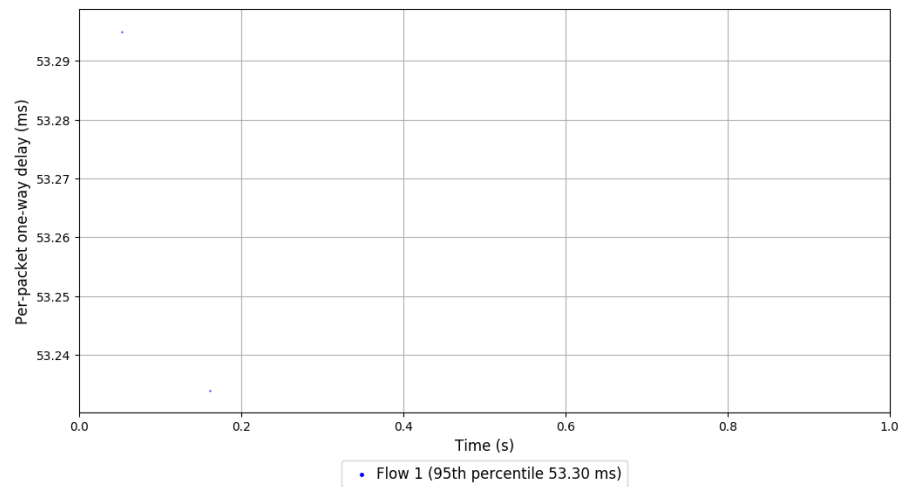
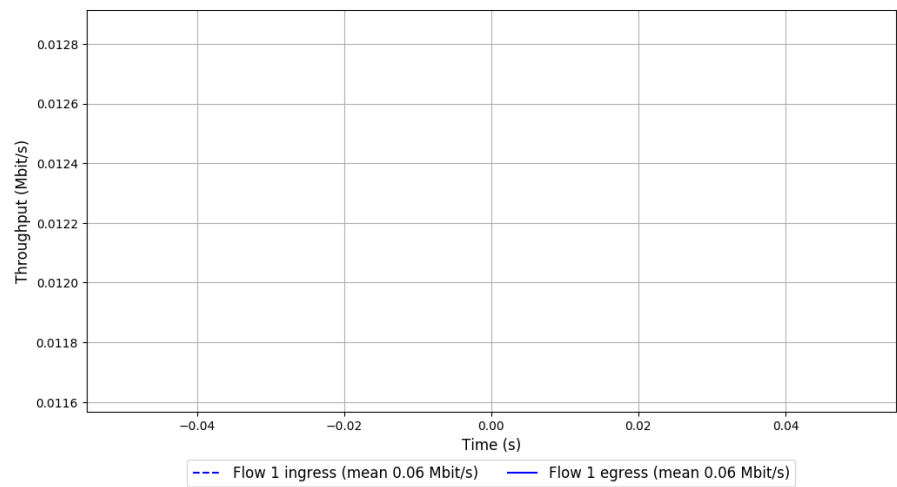


Run 7: Statistics of QUIC Cubic

Start at: 2018-03-13 07:33:37

End at: 2018-03-13 07:34:07

Run 7: Report of QUIC Cubic — Data Link

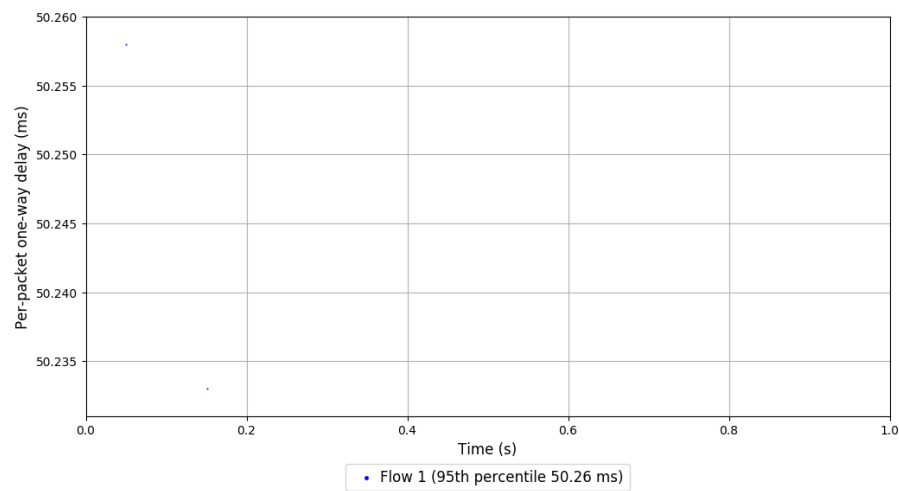
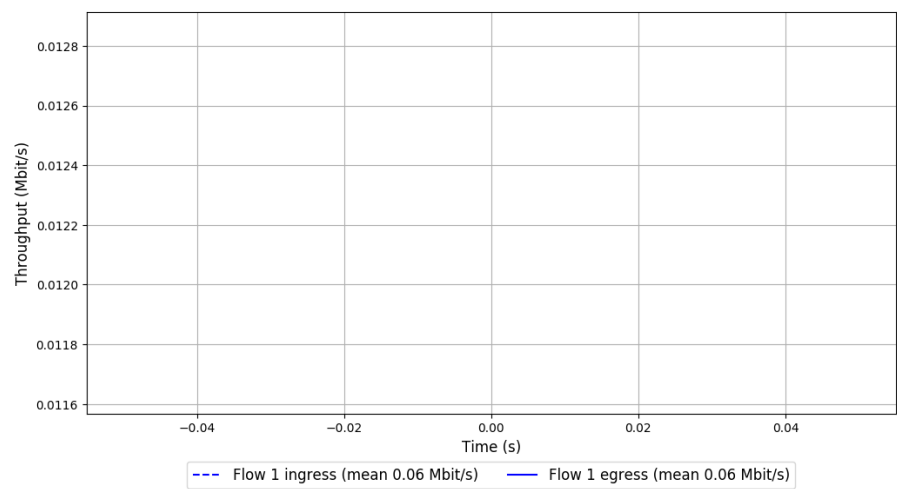


Run 8: Statistics of QUIC Cubic

Start at: 2018-03-13 07:47:51

End at: 2018-03-13 07:48:21

Run 8: Report of QUIC Cubic — Data Link

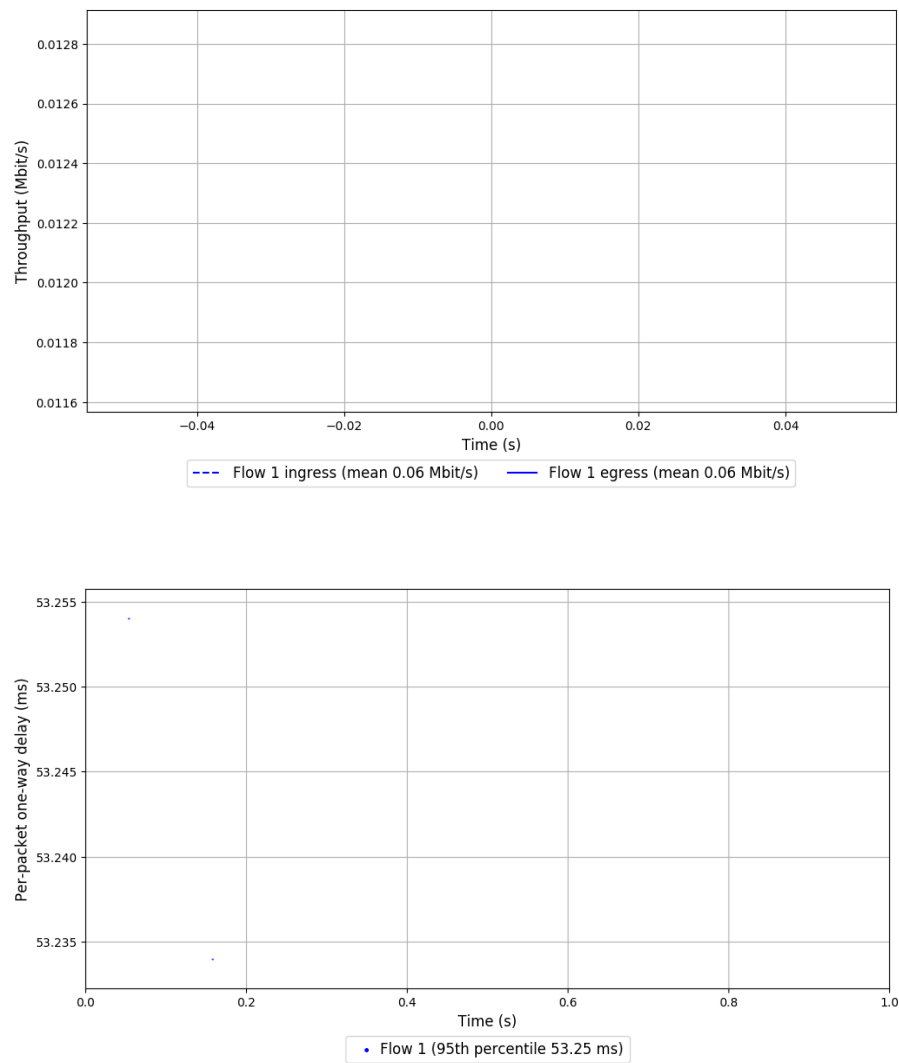


Run 9: Statistics of QUIC Cubic

Start at: 2018-03-13 08:02:04

End at: 2018-03-13 08:02:34

Run 9: Report of QUIC Cubic — Data Link

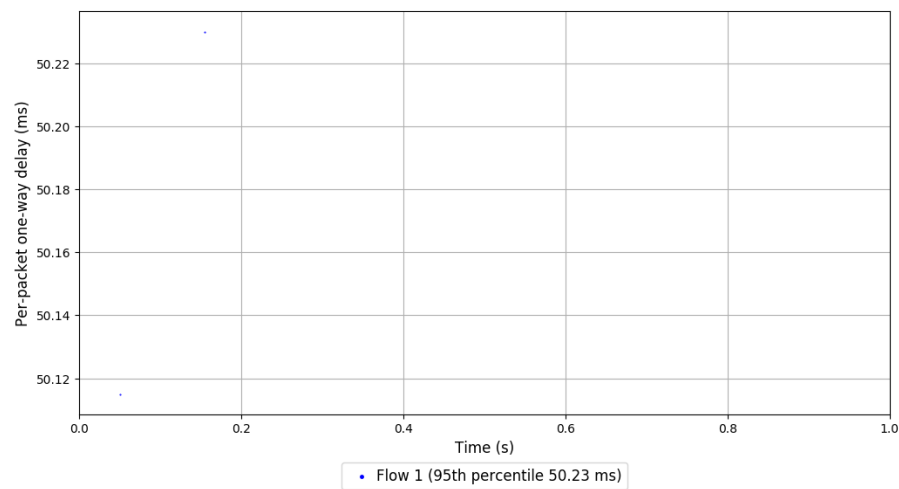
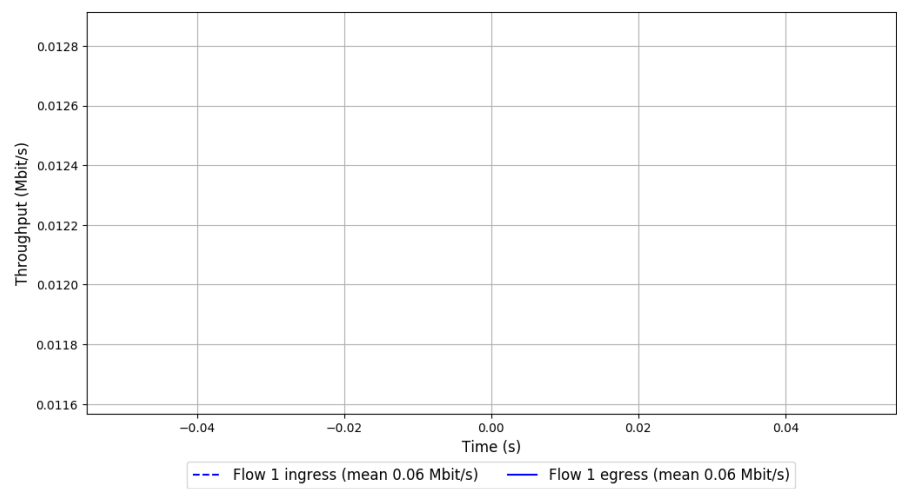


Run 10: Statistics of QUIC Cubic

Start at: 2018-03-13 08:16:07

End at: 2018-03-13 08:16:37

Run 10: Report of QUIC Cubic — Data Link

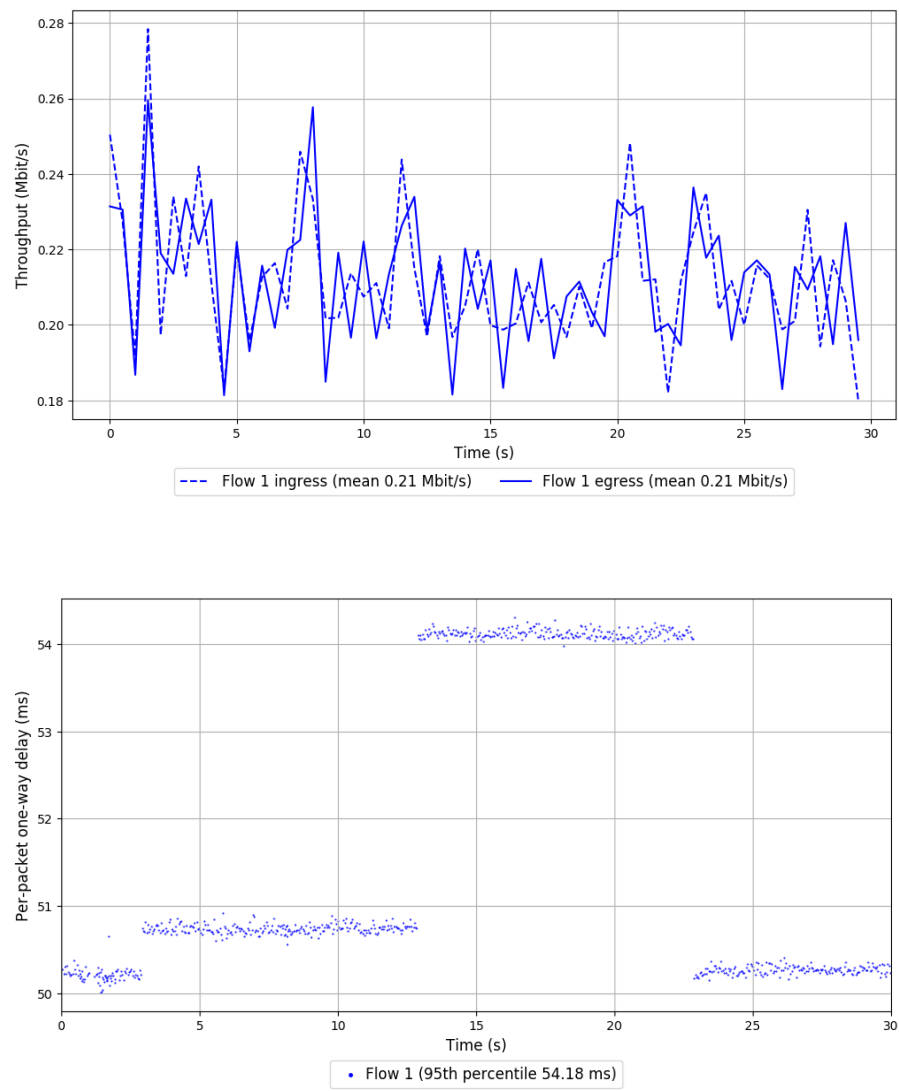


```
Run 1: Statistics of SCReAM

Start at: 2018-03-13 05:57:27
End at: 2018-03-13 05:57:57

# Below is generated by plot.py at 2018-03-13 11:00:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.180 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

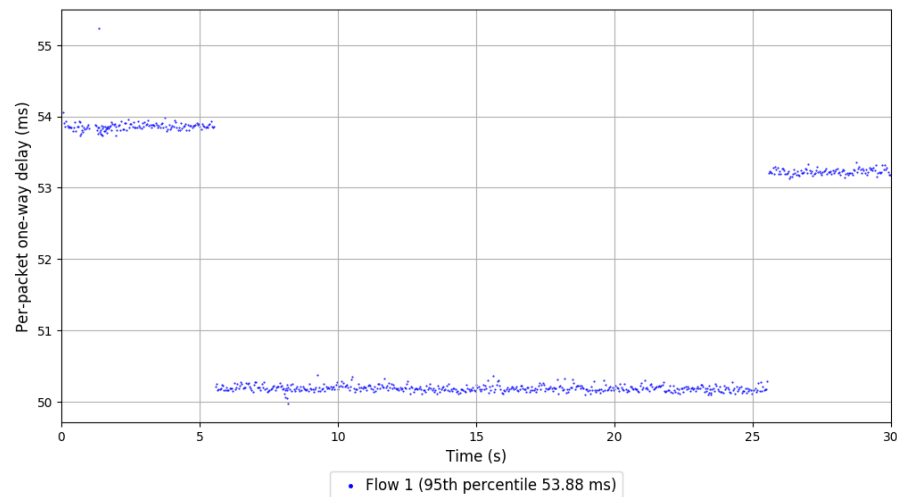
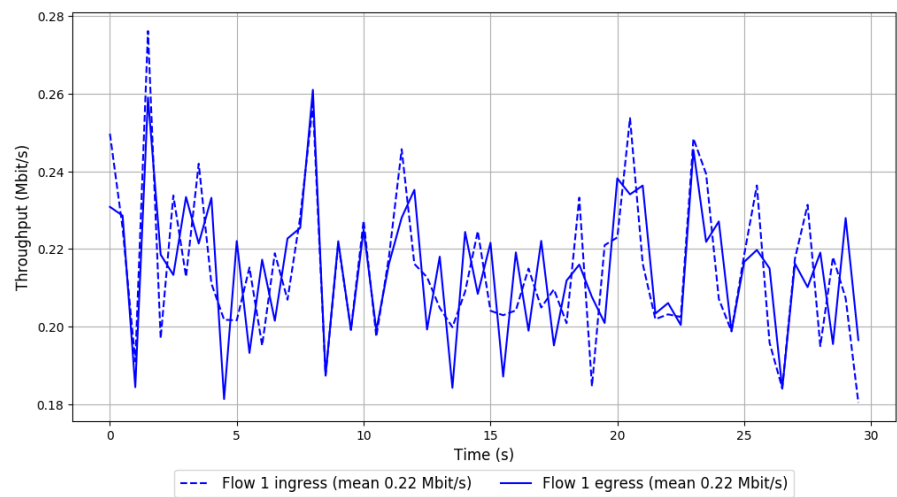


```
Run 2: Statistics of SCReAM

Start at: 2018-03-13 06:12:01
End at: 2018-03-13 06:12:31

# Below is generated by plot.py at 2018-03-13 11:00:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.884 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-13 06:26:11

End at: 2018-03-13 06:26:41

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 0.00%

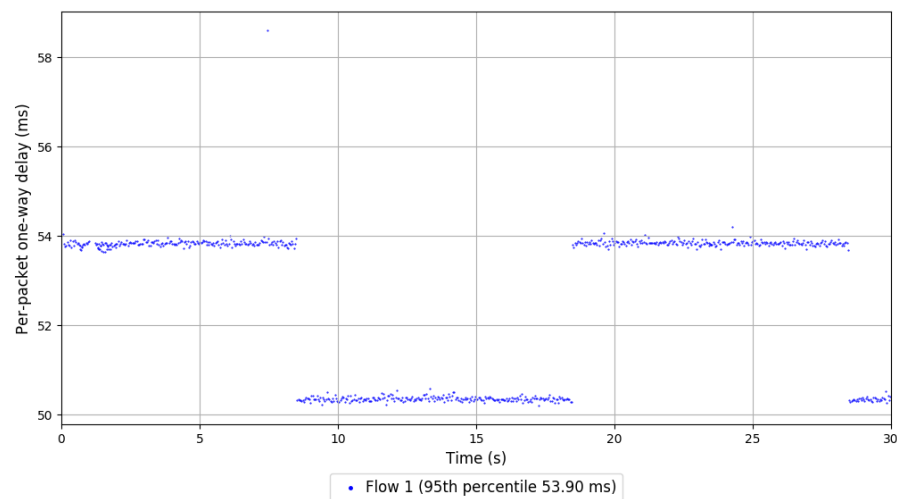
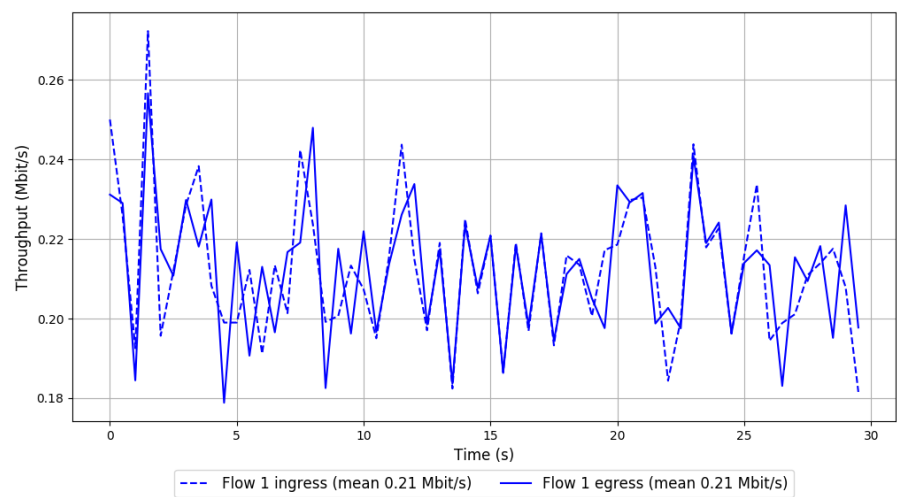
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 0.00%

Run 3: Report of SCRaM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-13 06:40:45

End at: 2018-03-13 06:41:15

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.199 ms

Loss rate: 0.00%

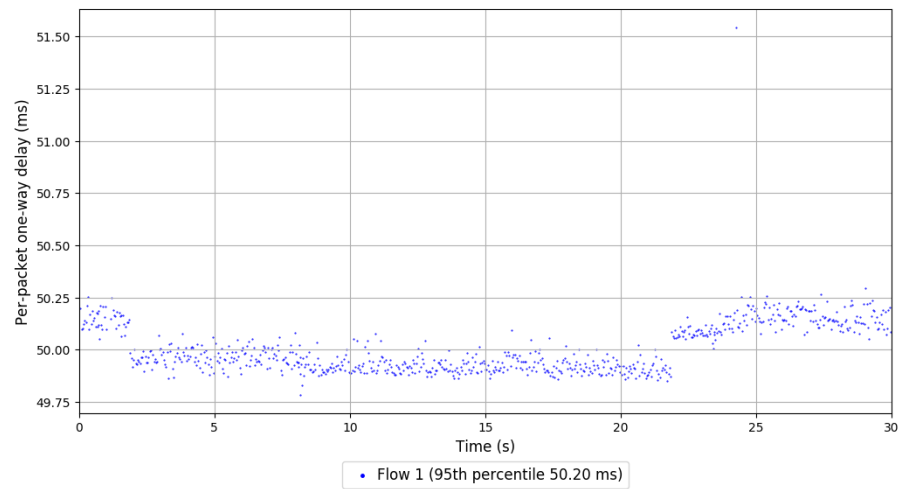
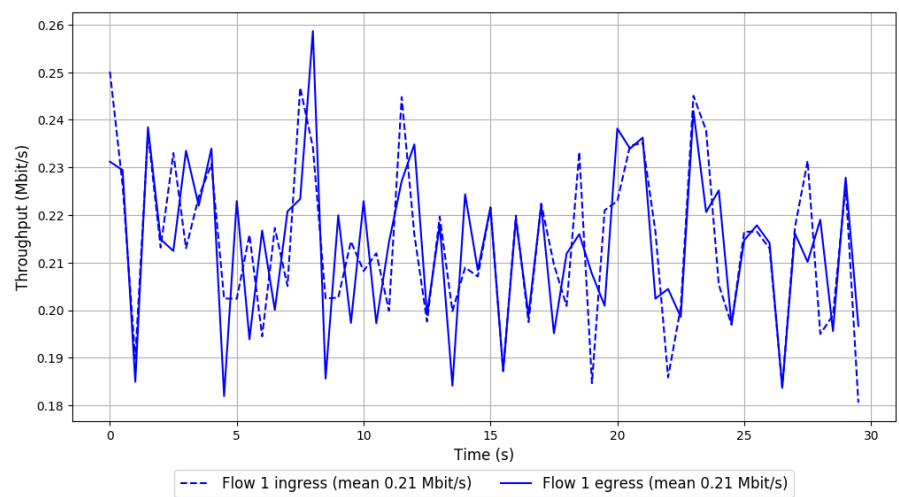
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.199 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-13 06:55:19

End at: 2018-03-13 06:55:49

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.510 ms

Loss rate: 0.00%

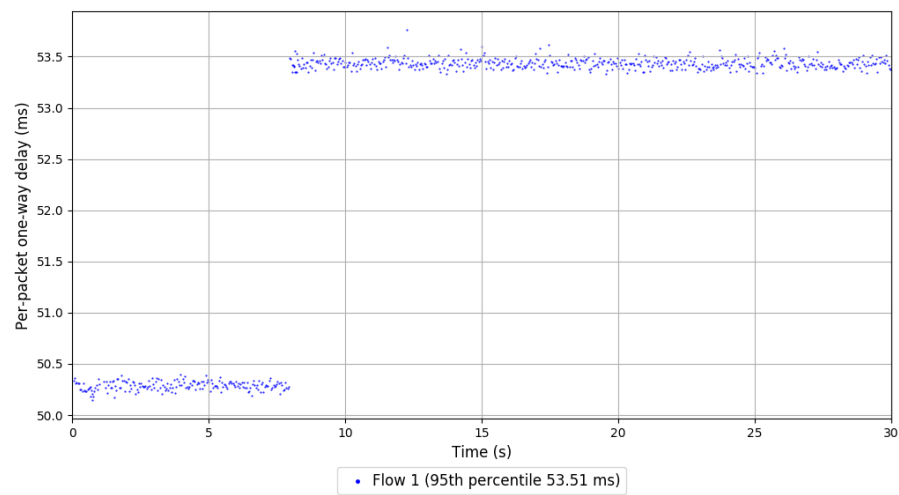
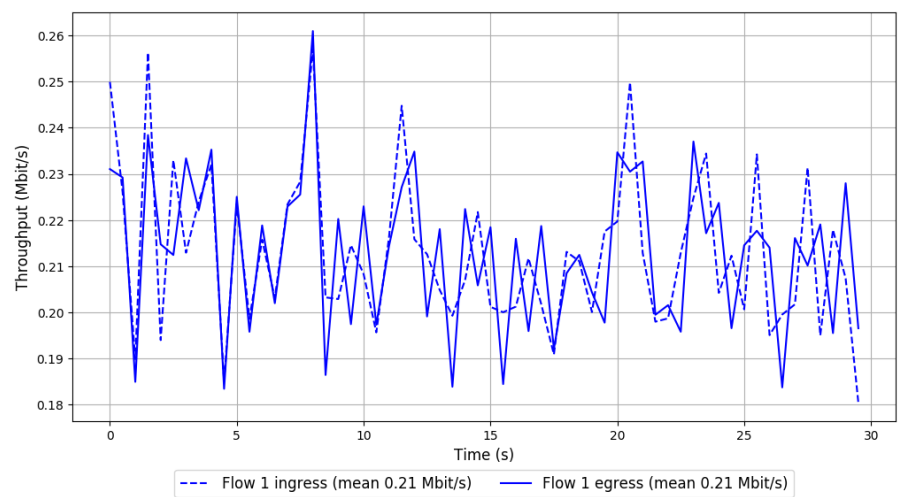
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.510 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-13 07:09:37

End at: 2018-03-13 07:10:07

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.874 ms

Loss rate: 0.00%

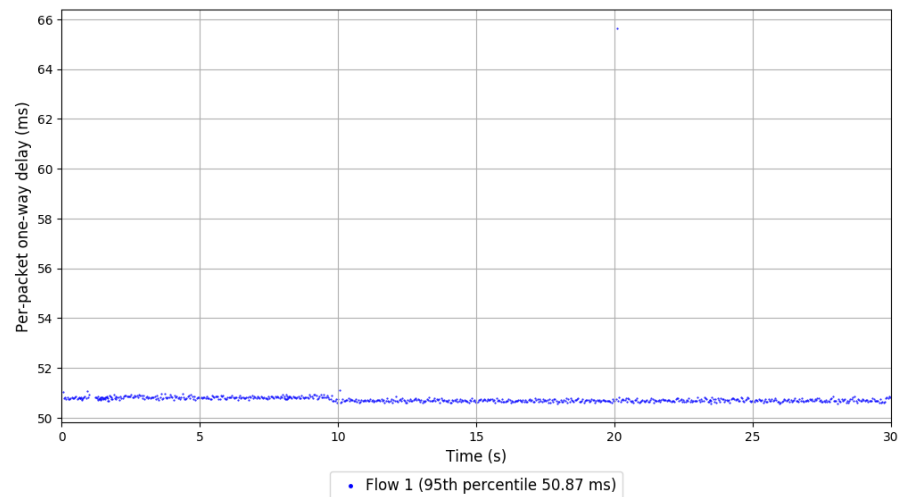
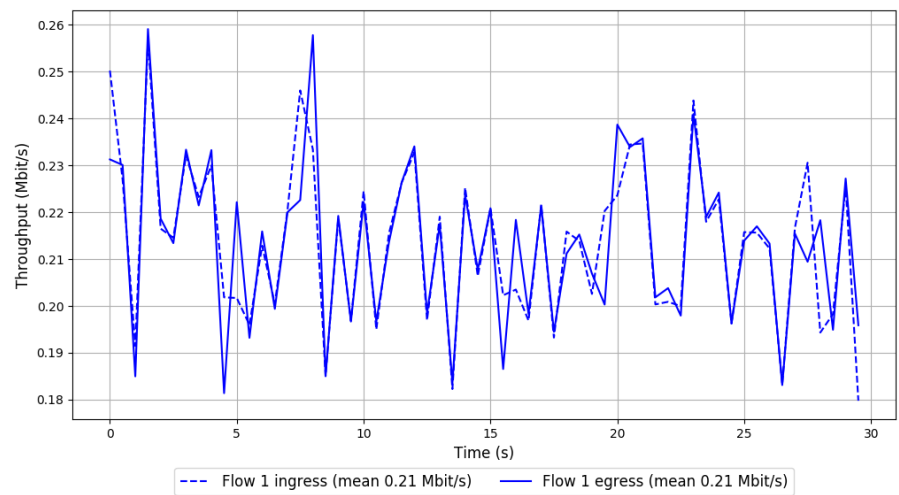
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.874 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-13 07:24:15

End at: 2018-03-13 07:24:45

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.450 ms

Loss rate: 0.00%

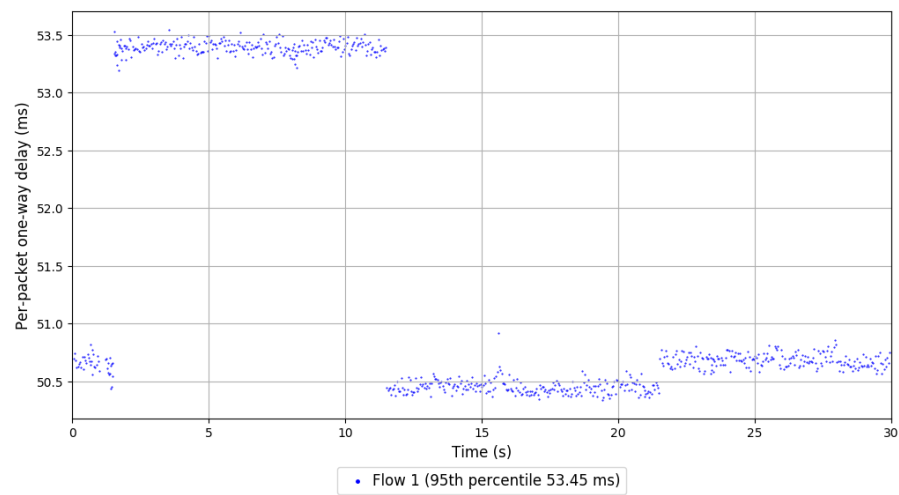
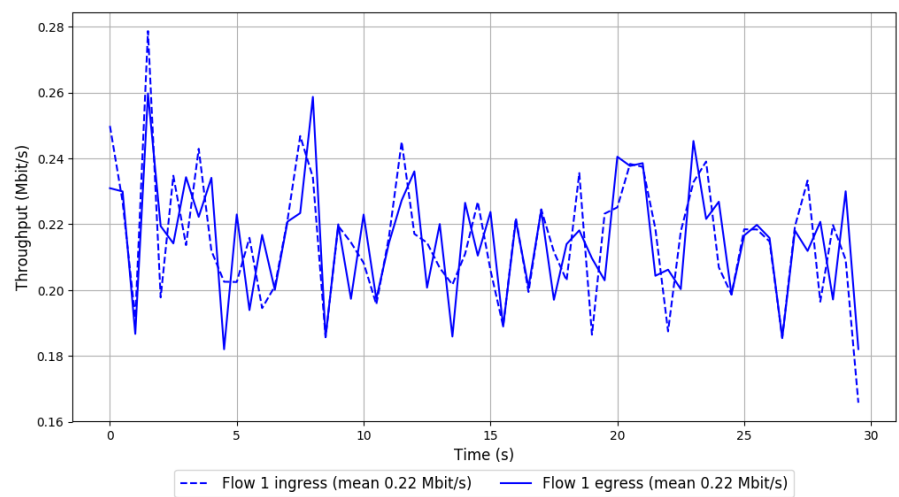
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.450 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-13 07:38:28

End at: 2018-03-13 07:38:58

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.185 ms

Loss rate: 0.00%

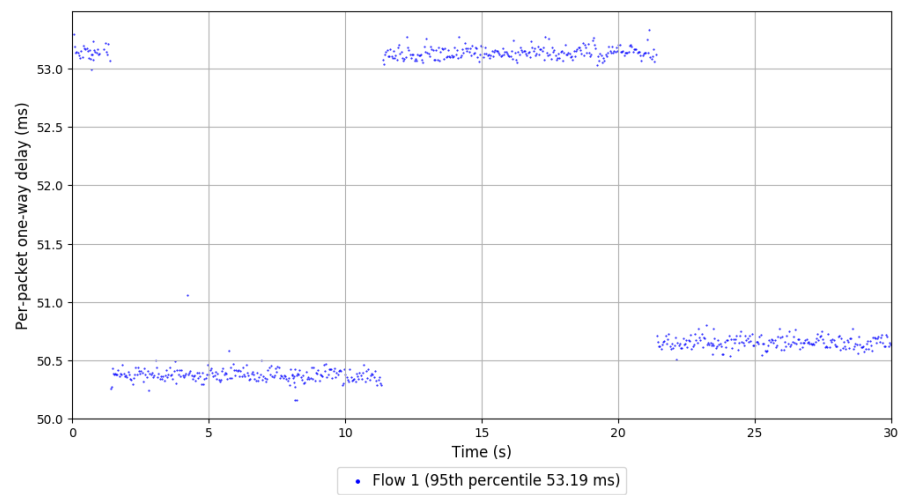
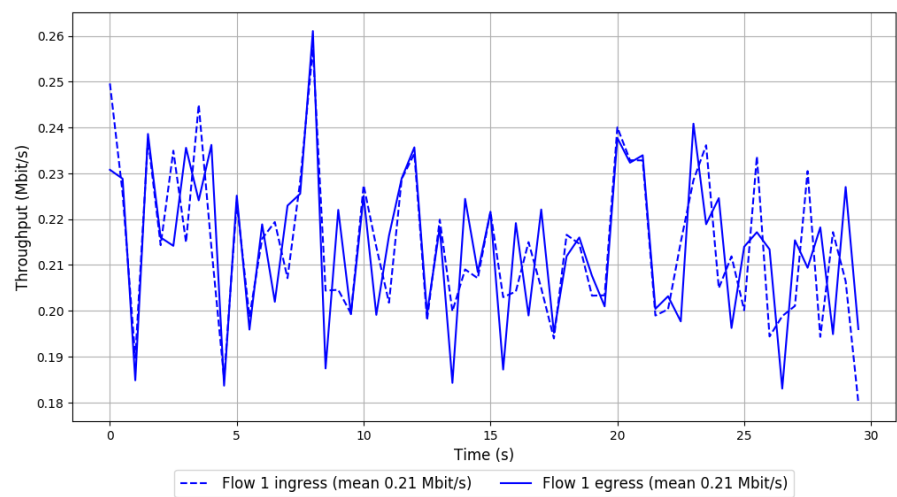
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.185 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-13 07:52:37

End at: 2018-03-13 07:53:07

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.219 ms

Loss rate: 0.00%

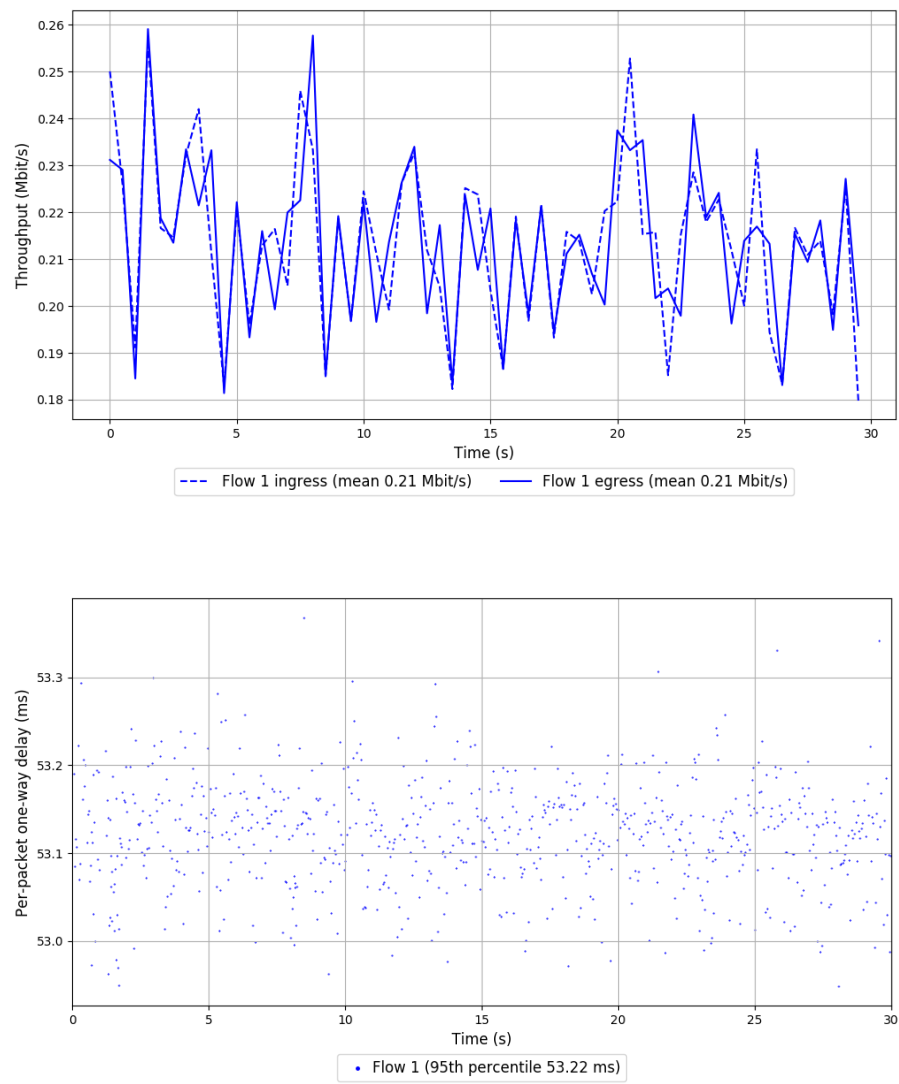
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.219 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-13 08:06:50

End at: 2018-03-13 08:07:20

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 0.00%

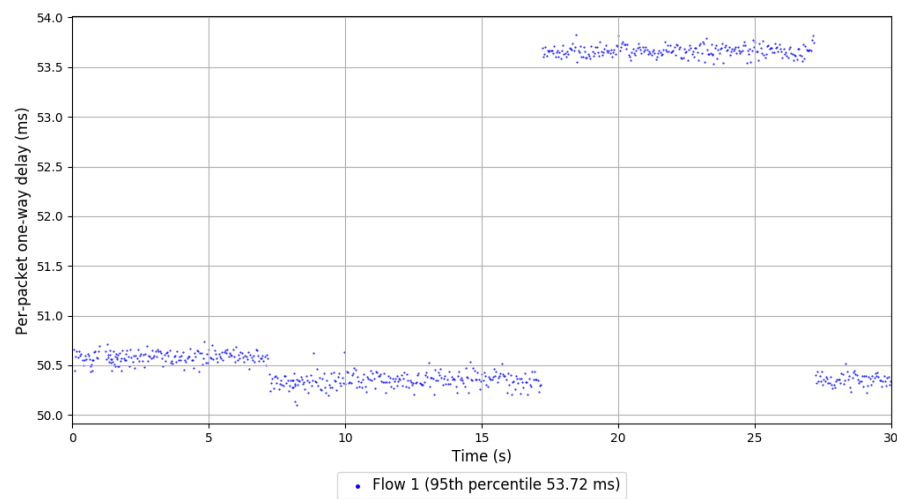
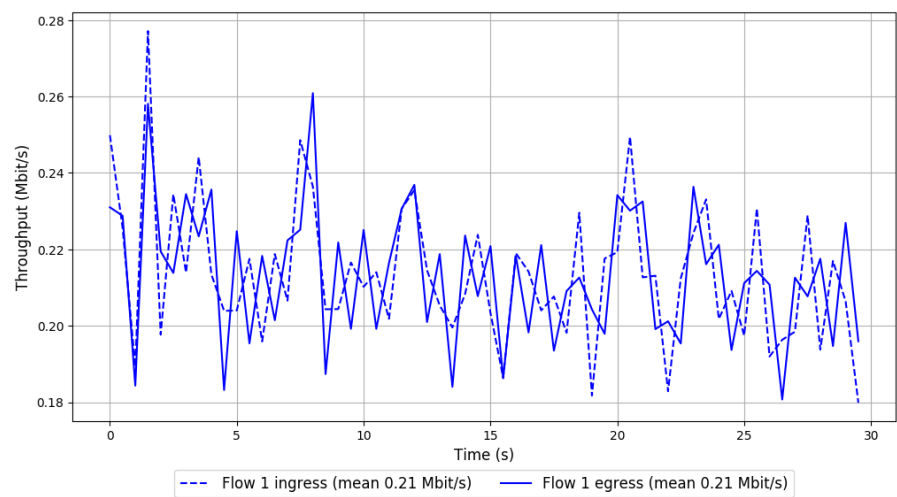
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

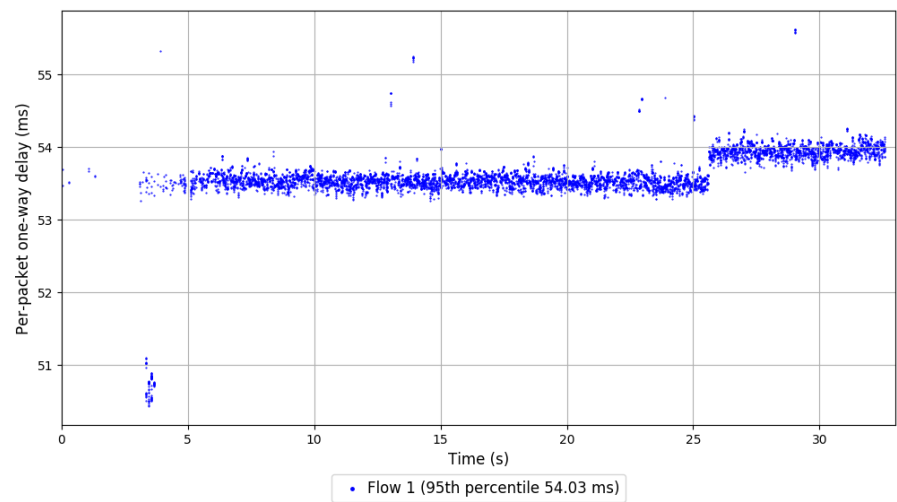
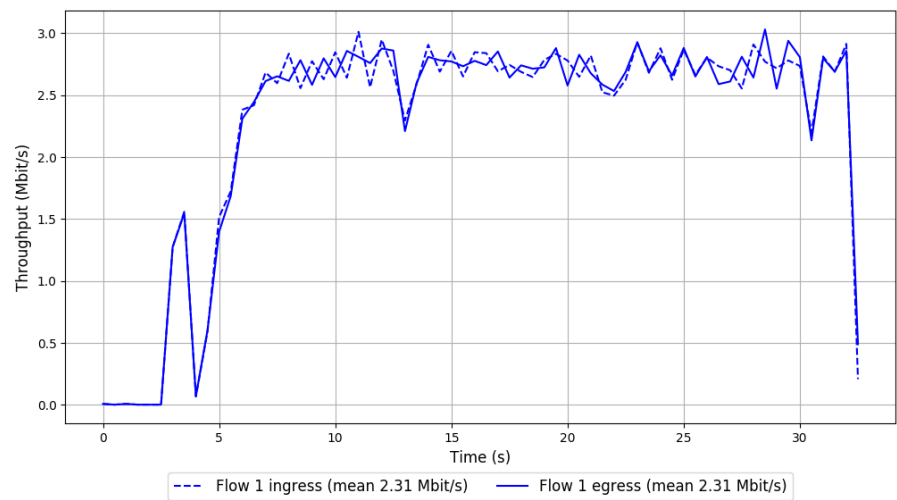


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-13 06:01:54
End at: 2018-03-13 06:02:24

# Below is generated by plot.py at 2018-03-13 11:00:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 54.028 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 54.028 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-13 06:16:30

End at: 2018-03-13 06:17:00

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.00%

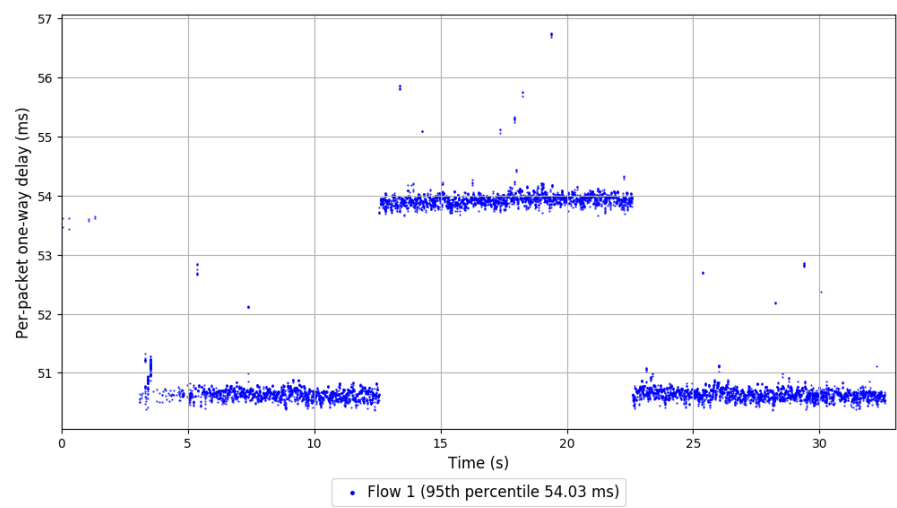
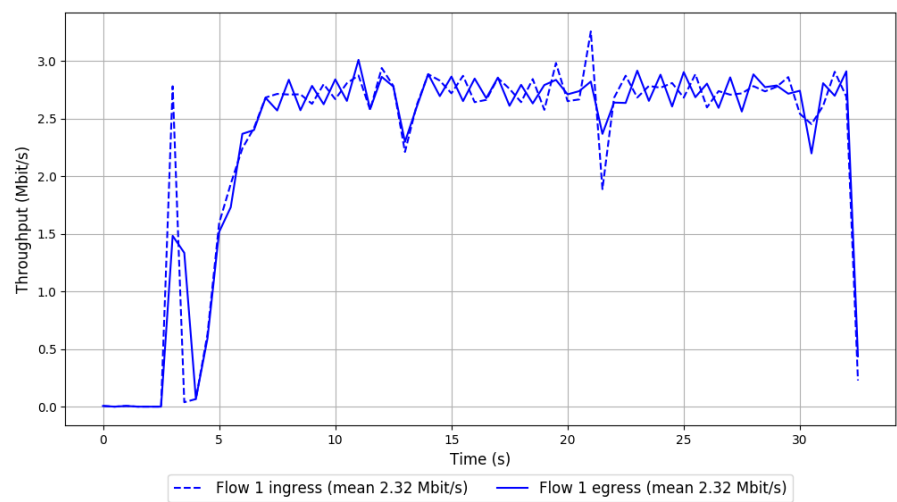
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.026 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-13 06:30:37

End at: 2018-03-13 06:31:07

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.438 ms

Loss rate: 0.00%

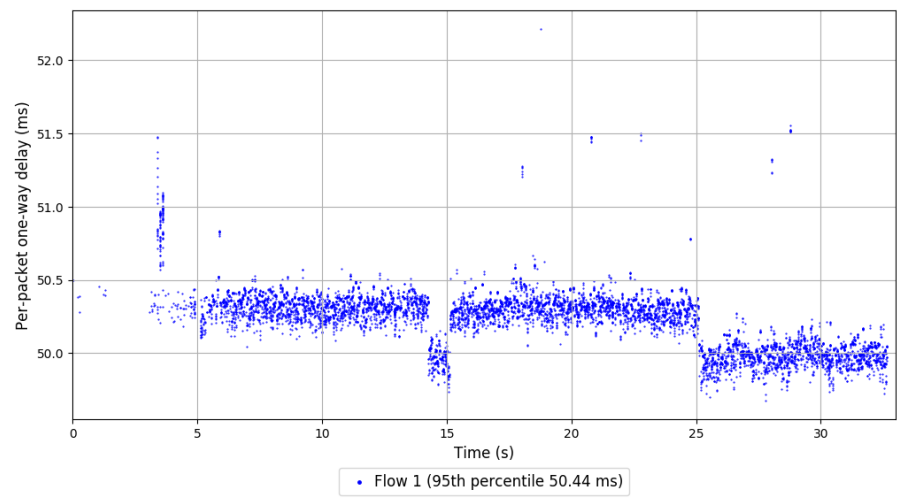
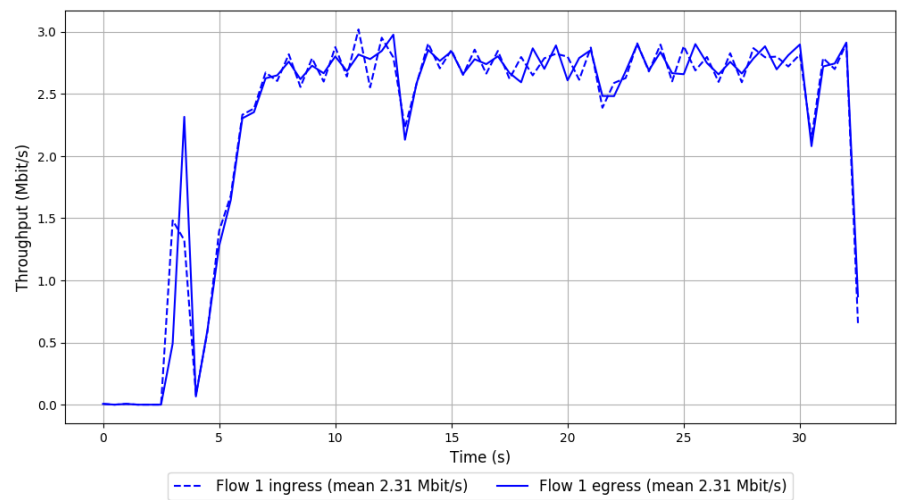
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.438 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-13 06:45:14

End at: 2018-03-13 06:45:44

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.946 ms

Loss rate: 0.00%

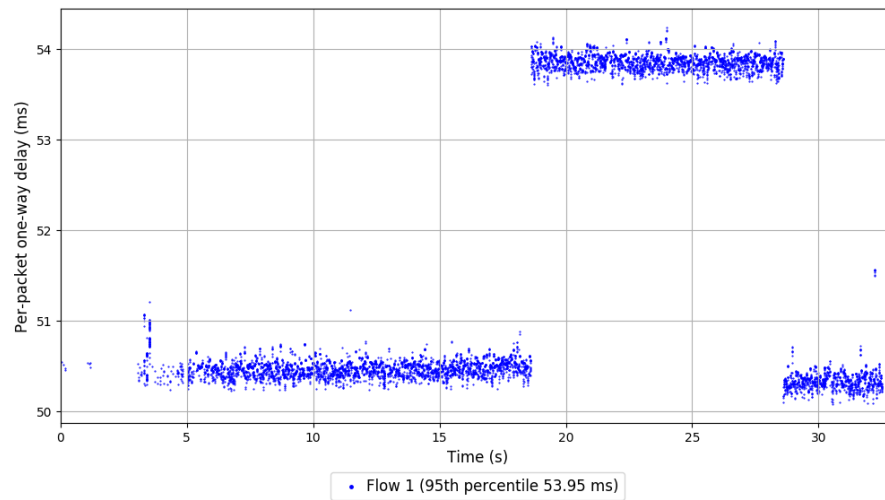
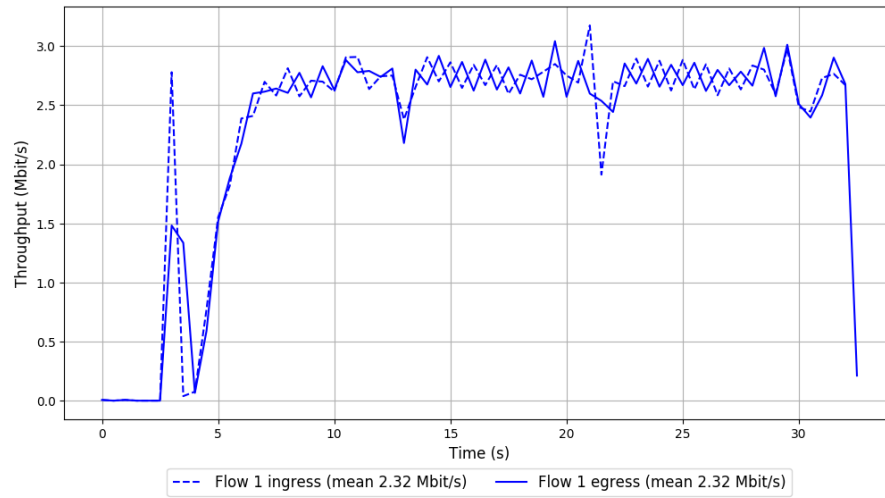
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.946 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-13 06:59:47

End at: 2018-03-13 07:00:17

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.271 ms

Loss rate: 0.00%

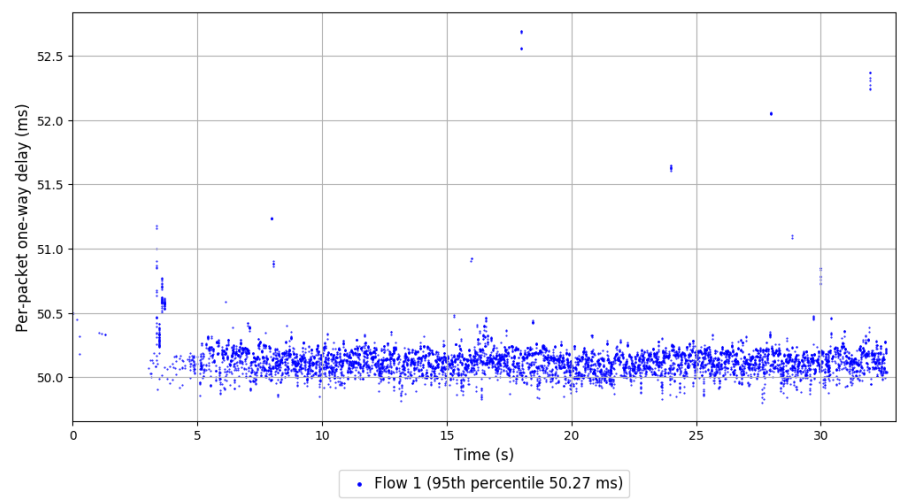
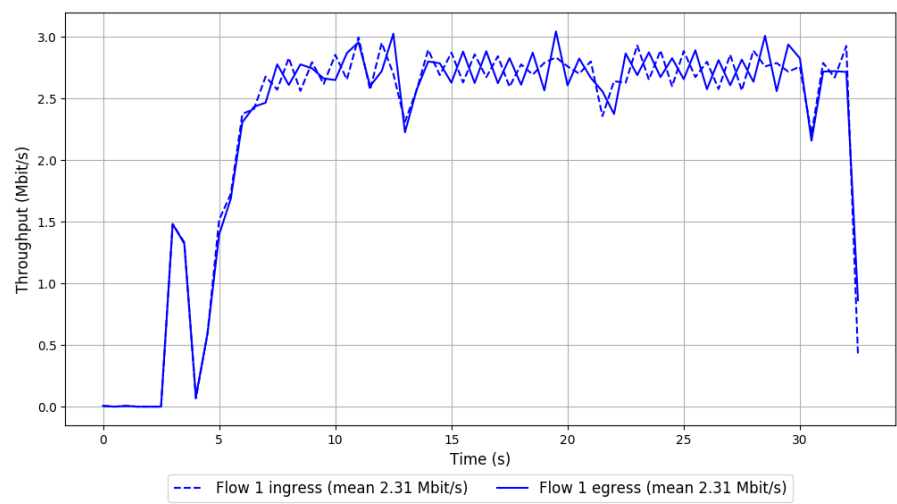
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.271 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-13 07:14:05

End at: 2018-03-13 07:14:35

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 53.737 ms

Loss rate: 0.00%

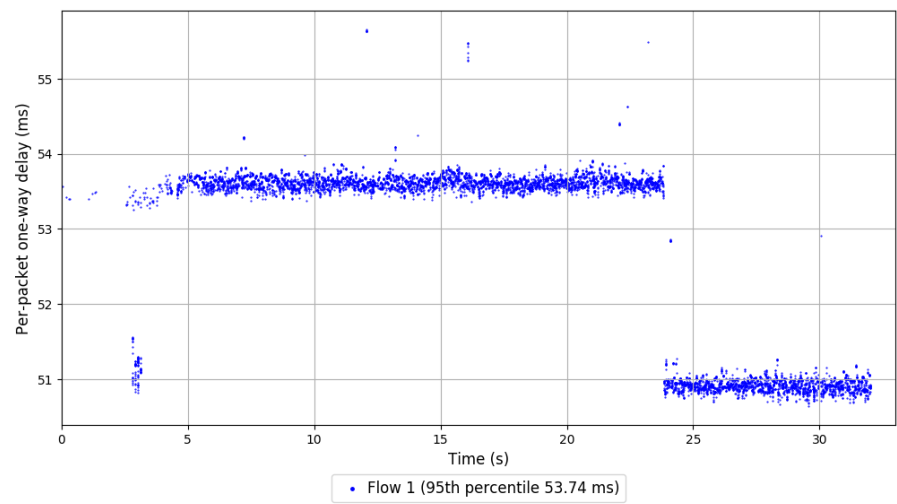
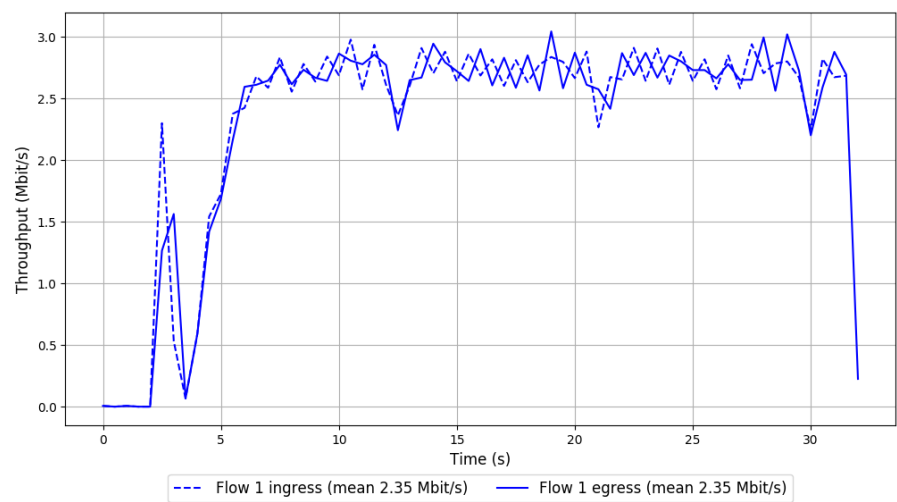
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 53.737 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-13 07:28:45

End at: 2018-03-13 07:29:15

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 53.381 ms

Loss rate: 0.00%

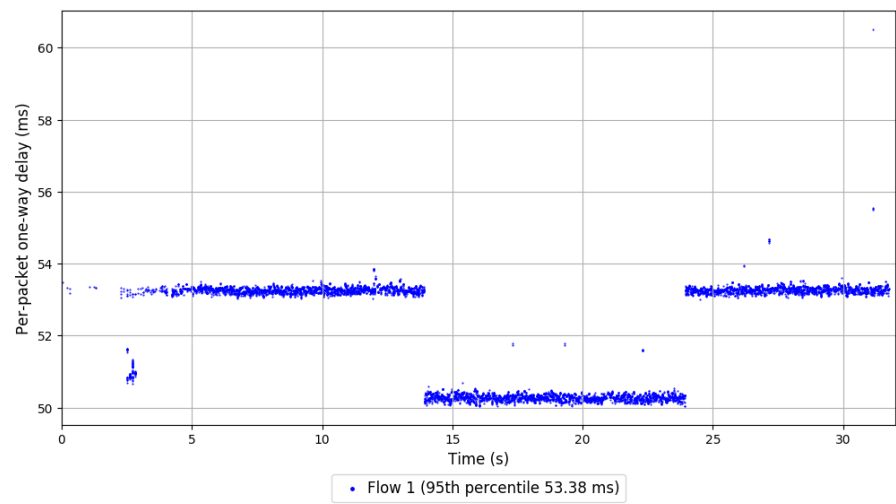
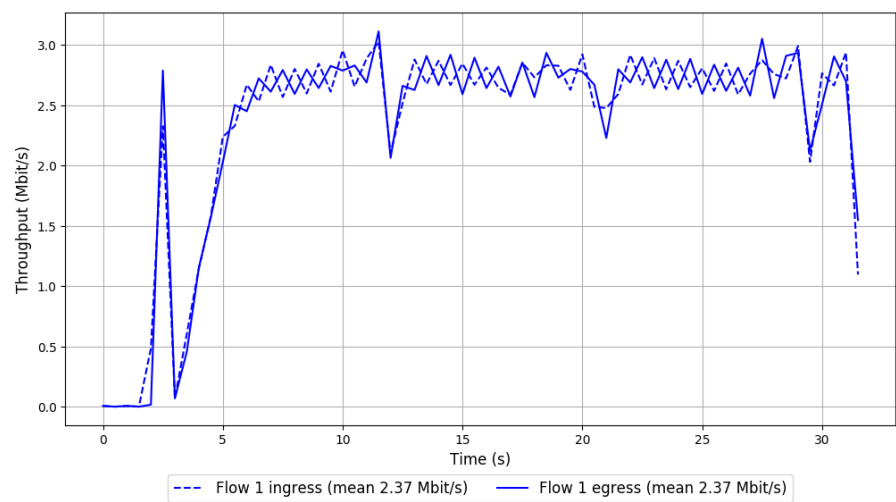
-- Flow 1:

Average throughput: 2.37 Mbit/s

95th percentile per-packet one-way delay: 53.381 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-13 07:42:57

End at: 2018-03-13 07:43:27

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.526 ms

Loss rate: 0.00%

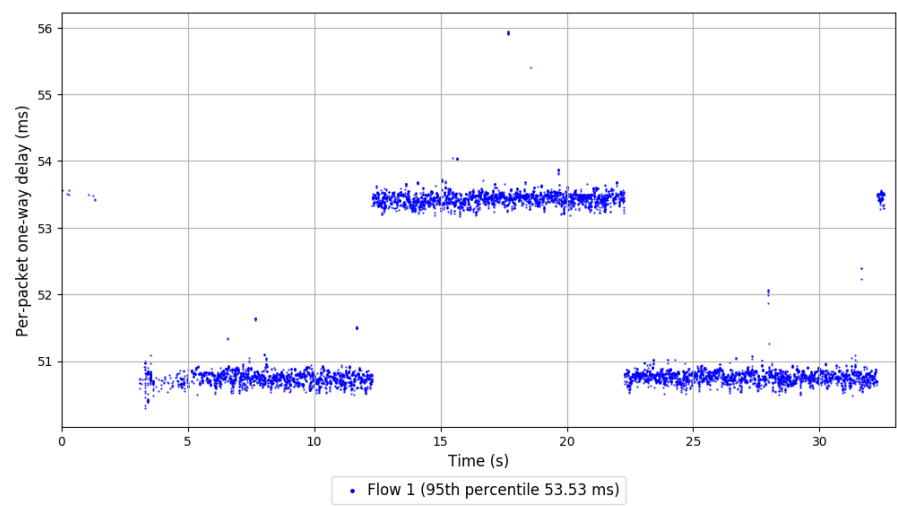
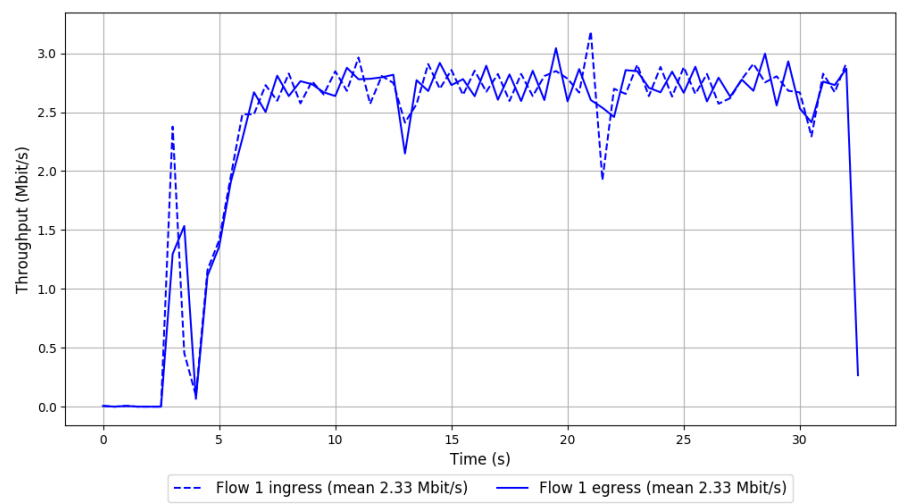
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.526 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-13 07:57:04

End at: 2018-03-13 07:57:34

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.350 ms

Loss rate: 0.00%

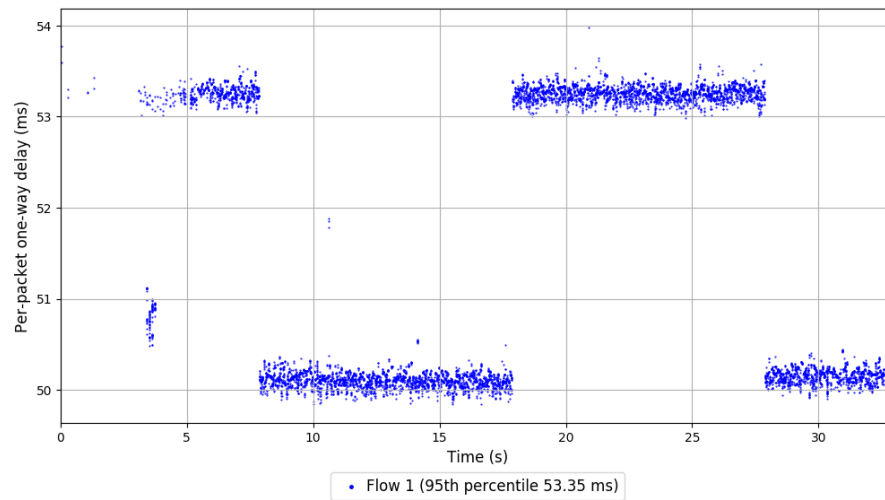
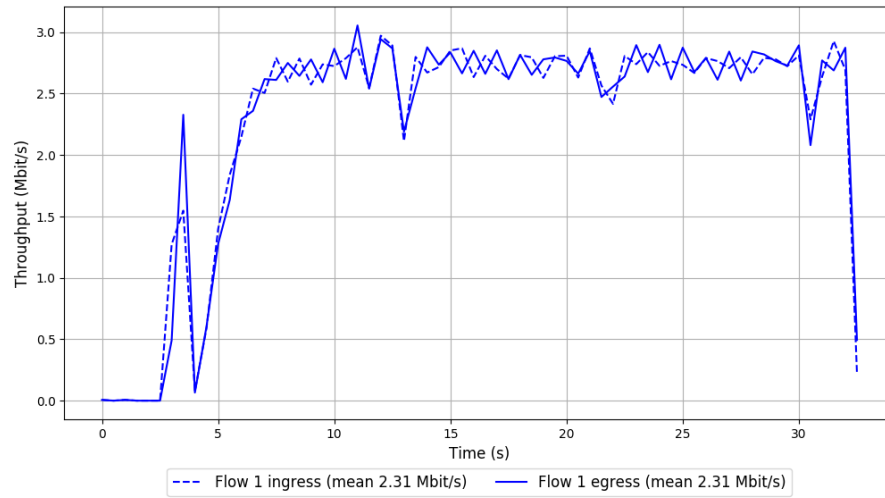
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.350 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-13 08:11:16

End at: 2018-03-13 08:11:46

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.424 ms

Loss rate: 0.00%

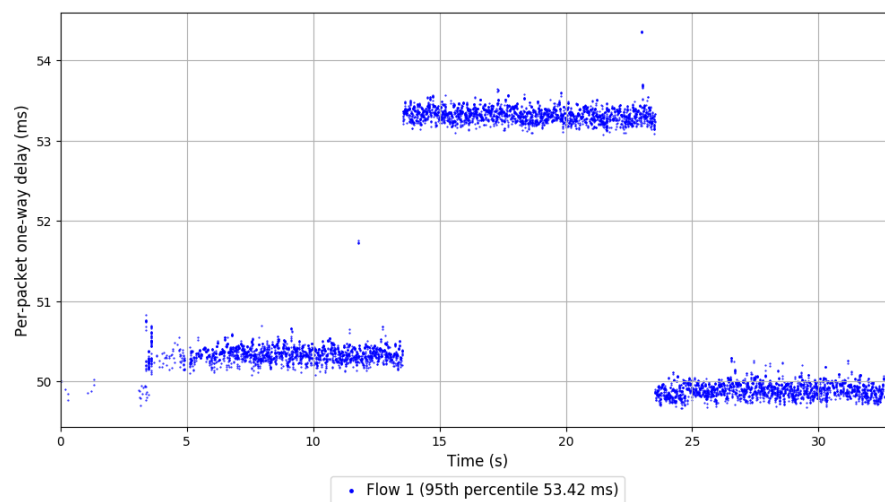
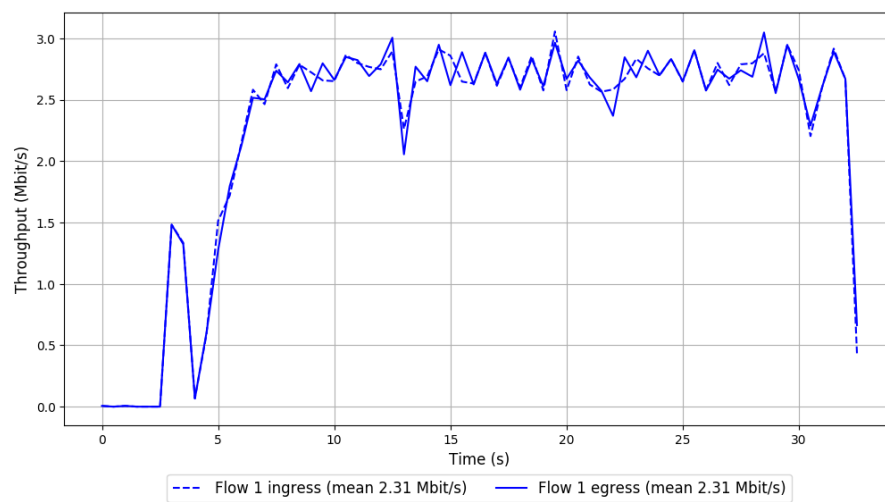
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.424 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-13 06:01:17

End at: 2018-03-13 06:01:47

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.596 ms

Loss rate: 0.00%

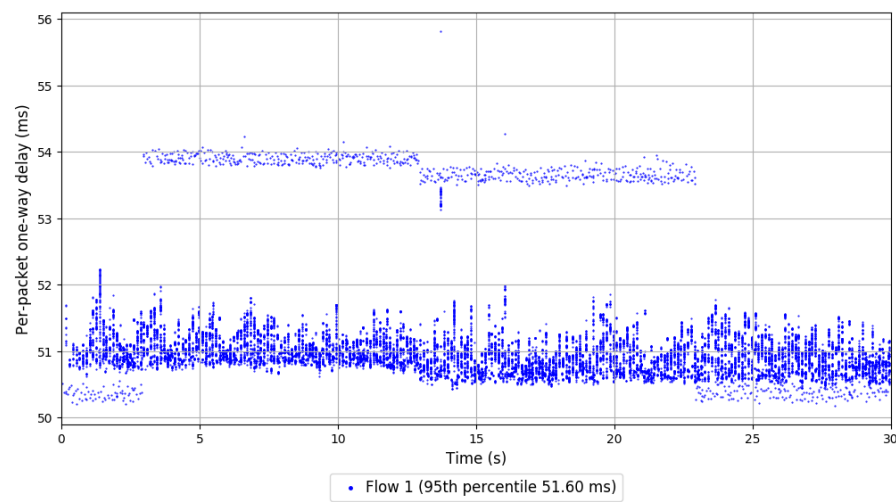
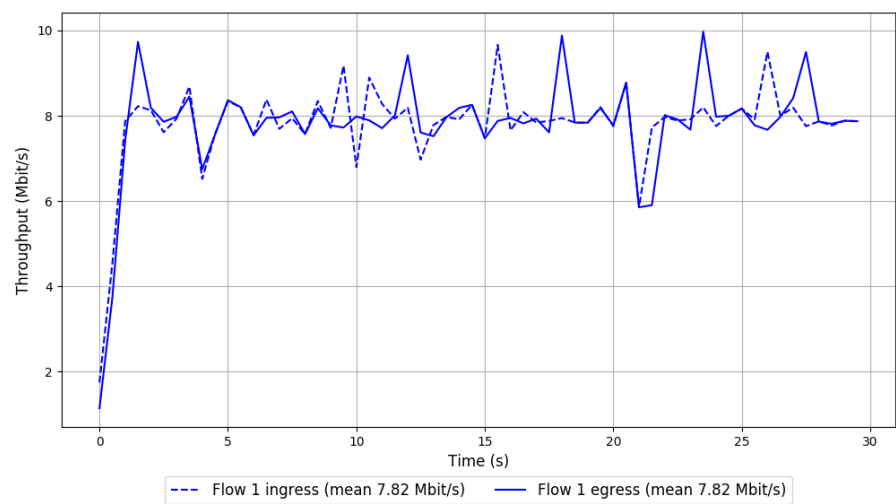
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.596 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-13 06:15:52

End at: 2018-03-13 06:16:22

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.922 ms

Loss rate: 0.00%

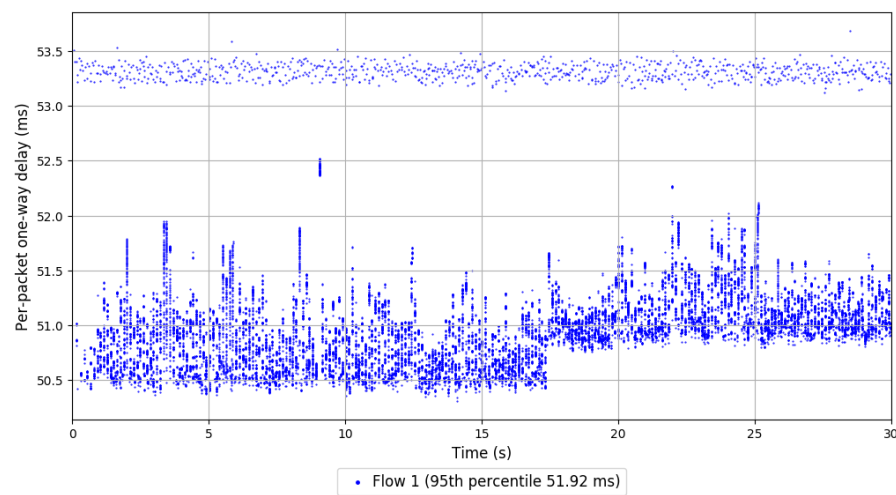
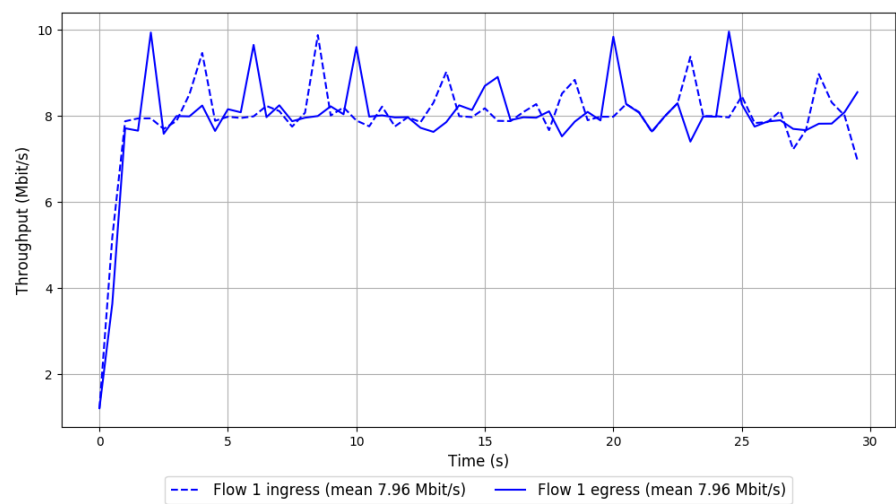
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.922 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-13 06:30:00

End at: 2018-03-13 06:30:30

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.995 ms

Loss rate: 0.00%

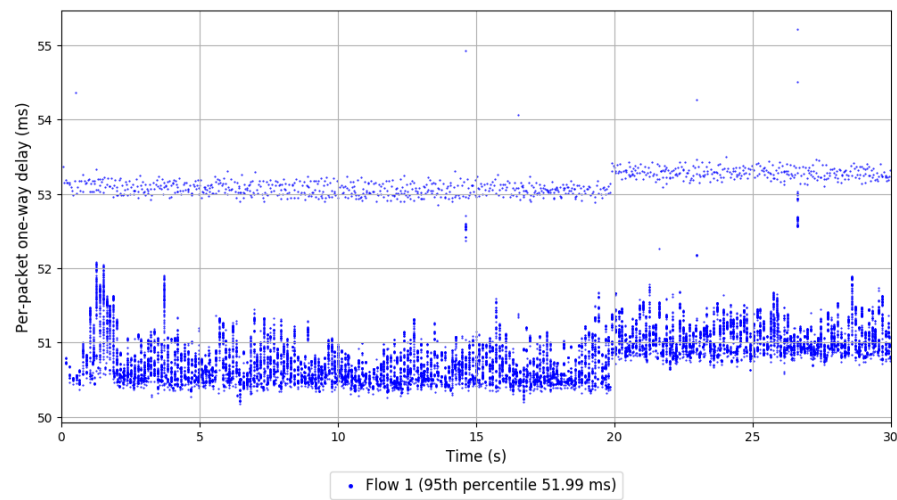
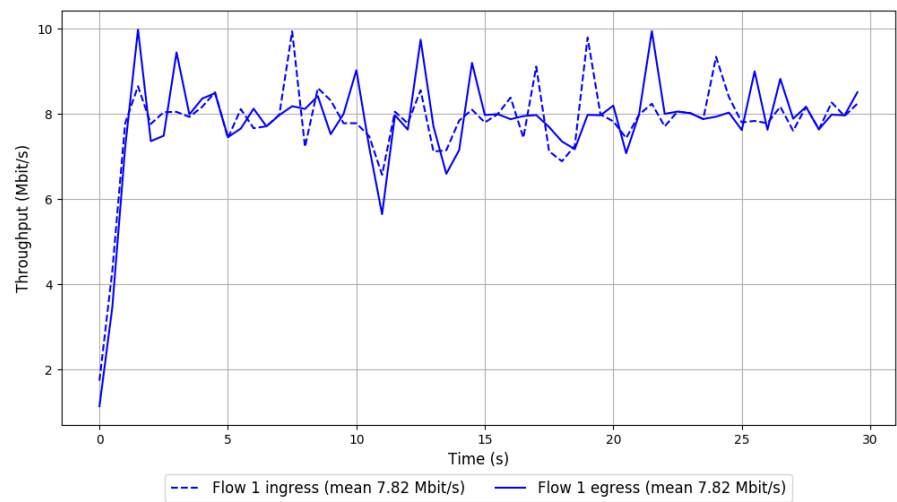
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.995 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-13 06:44:36

End at: 2018-03-13 06:45:06

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.228 ms

Loss rate: 0.00%

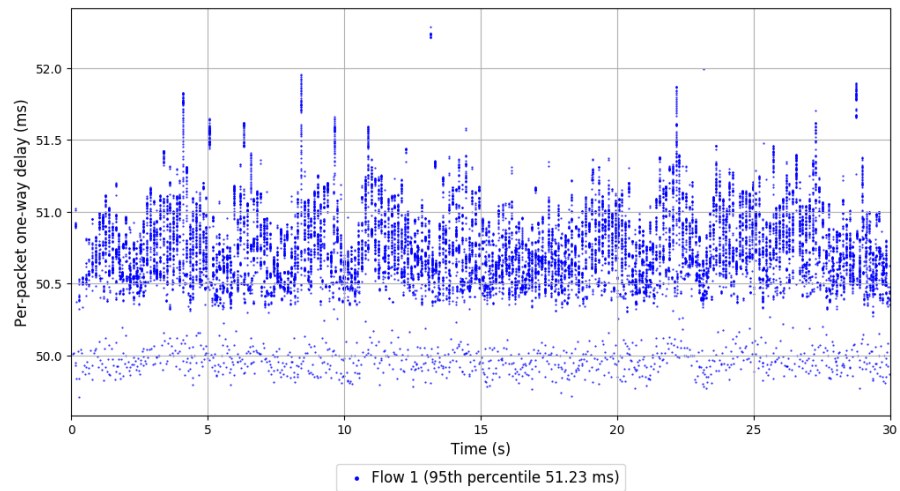
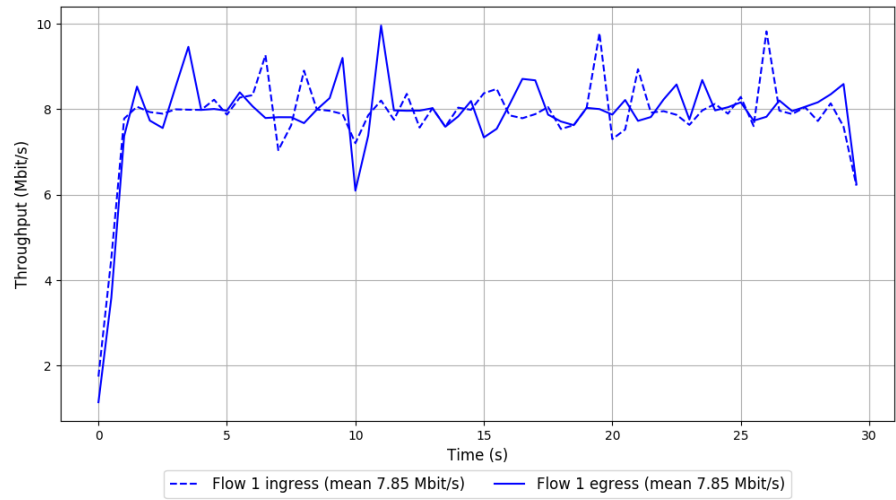
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.228 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-13 06:59:10

End at: 2018-03-13 06:59:40

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.472 ms

Loss rate: 0.00%

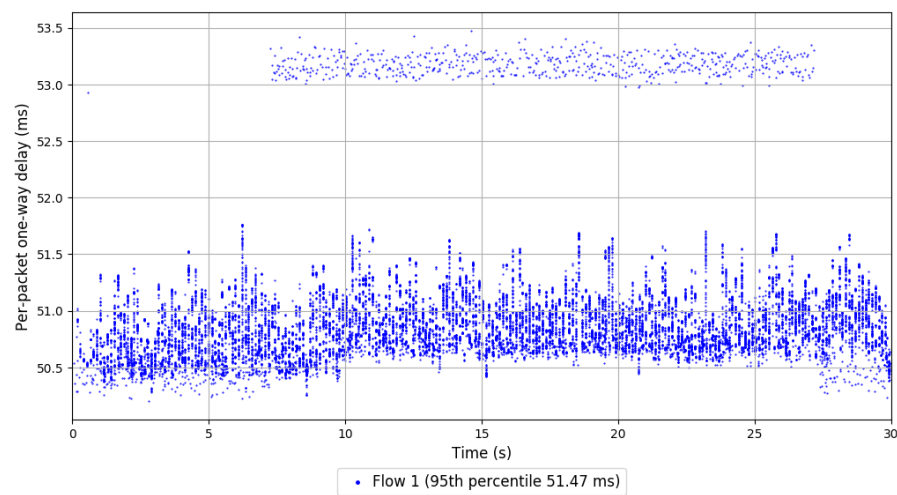
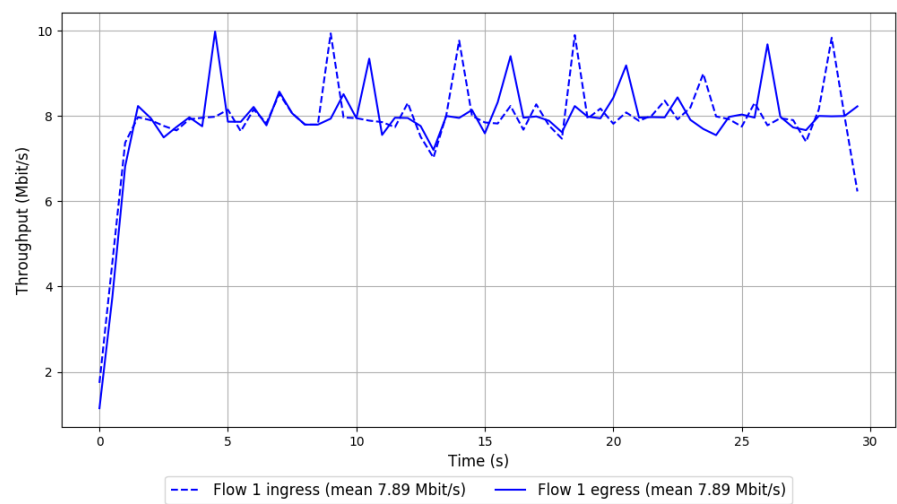
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.472 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-13 07:13:28

End at: 2018-03-13 07:13:58

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 51.560 ms

Loss rate: 0.00%

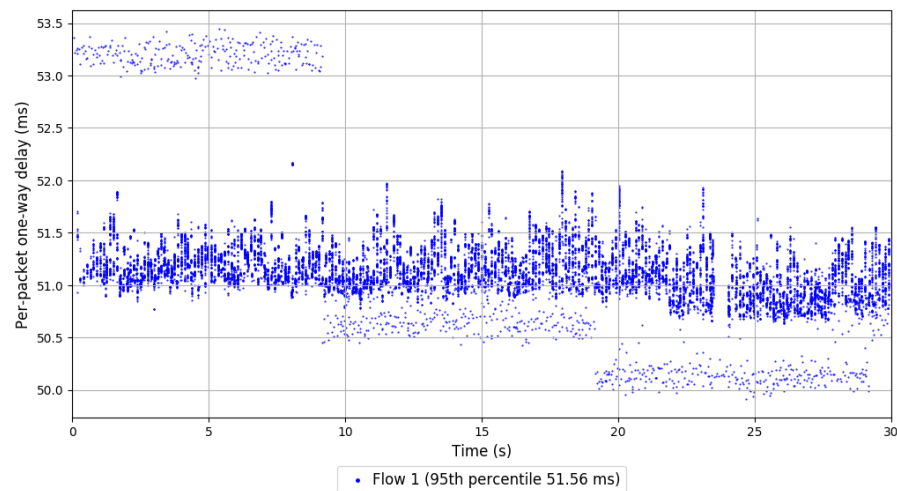
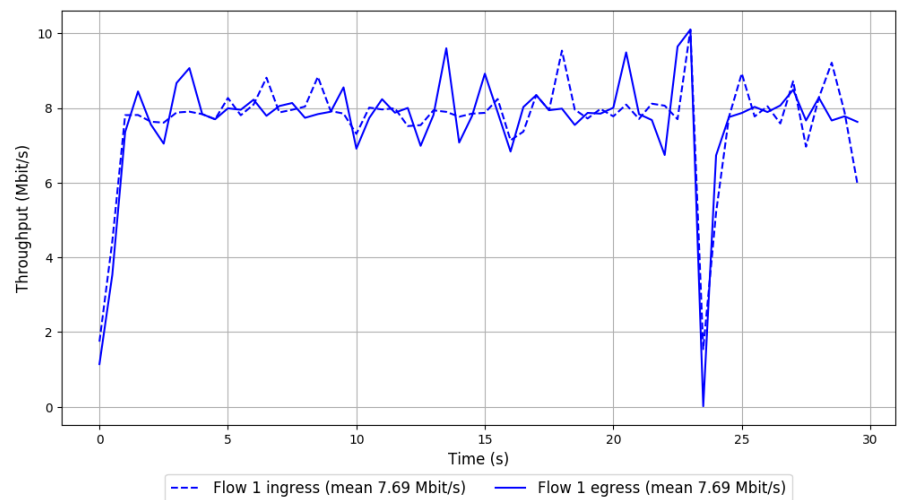
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 51.560 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-13 07:28:08

End at: 2018-03-13 07:28:38

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.799 ms

Loss rate: 0.00%

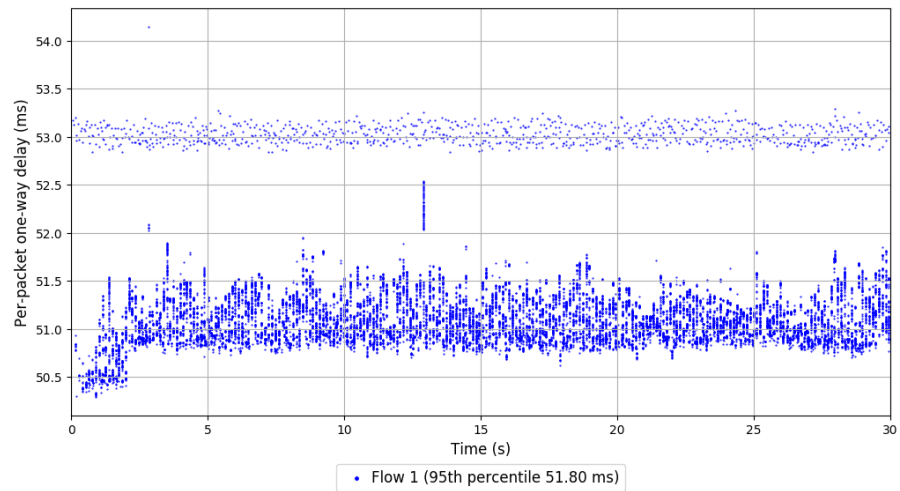
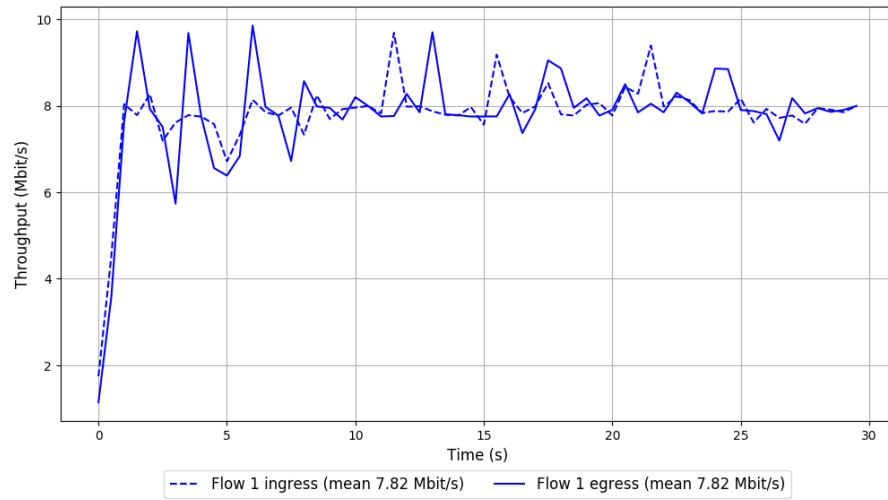
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.799 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-13 07:42:20

End at: 2018-03-13 07:42:50

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.419 ms

Loss rate: 0.00%

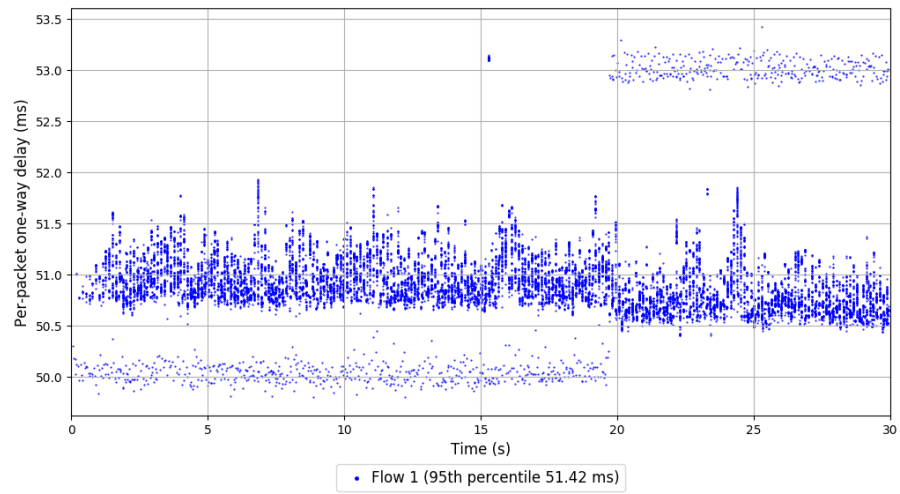
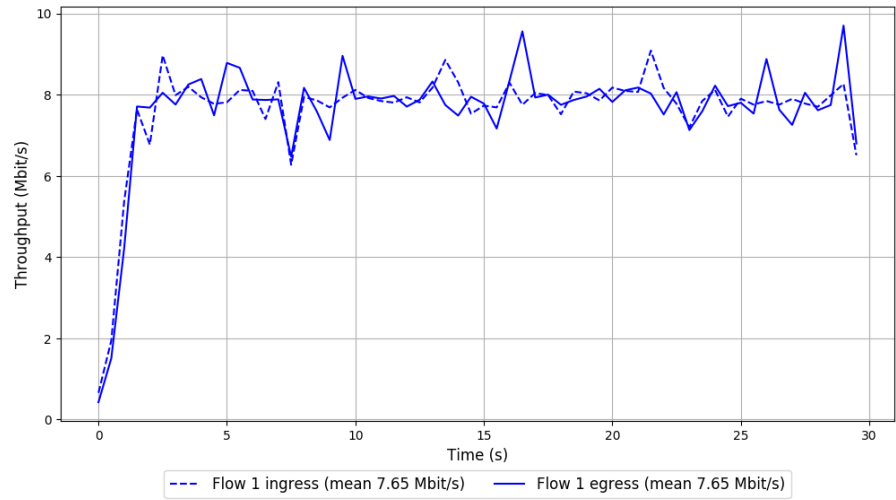
-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 51.419 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-13 07:56:27

End at: 2018-03-13 07:56:57

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.552 ms

Loss rate: 0.00%

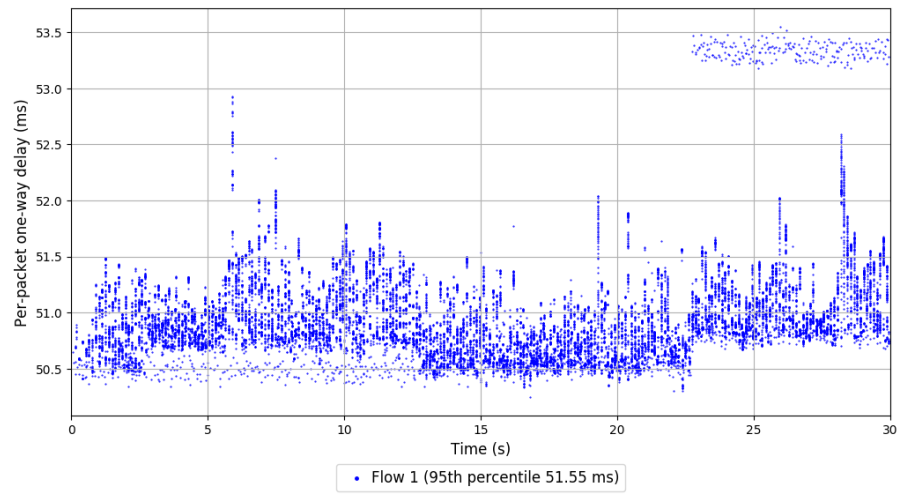
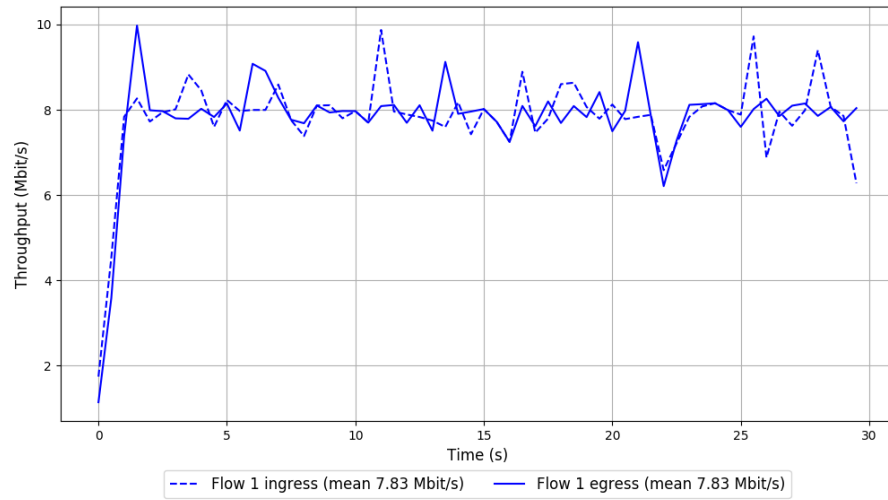
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.552 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-13 08:10:39

End at: 2018-03-13 08:11:09

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.553 ms

Loss rate: 0.00%

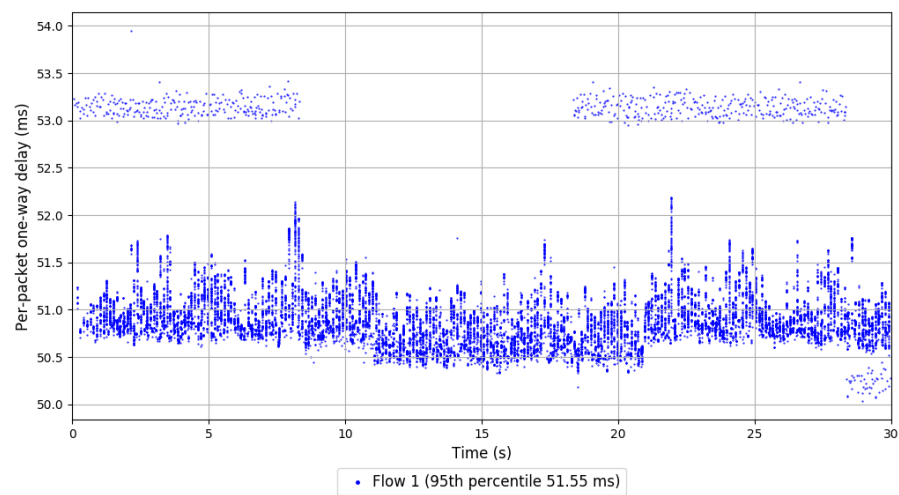
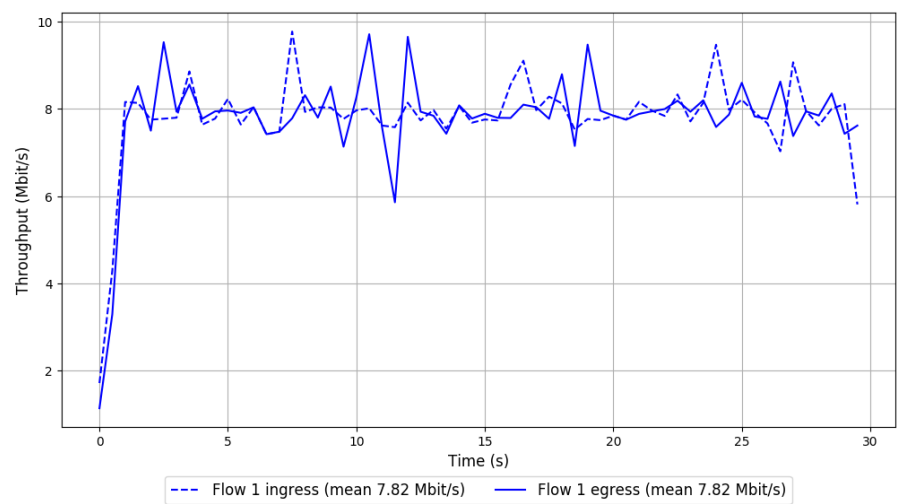
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.553 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

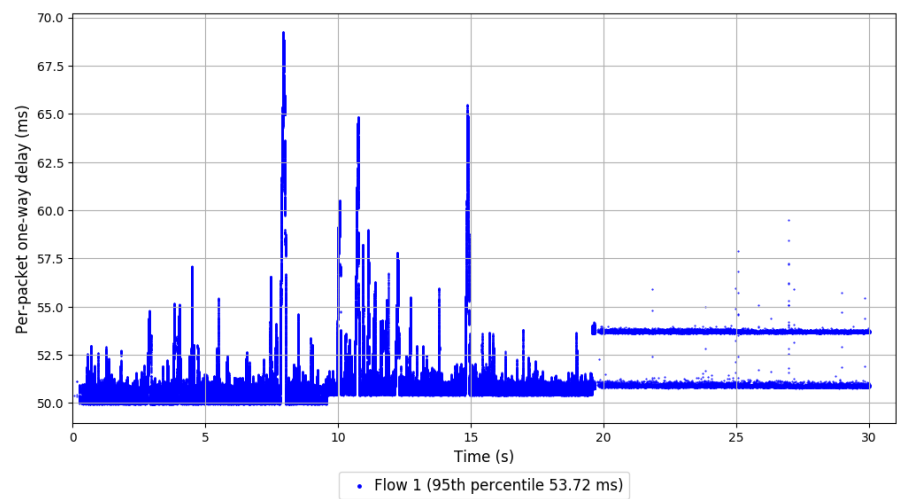
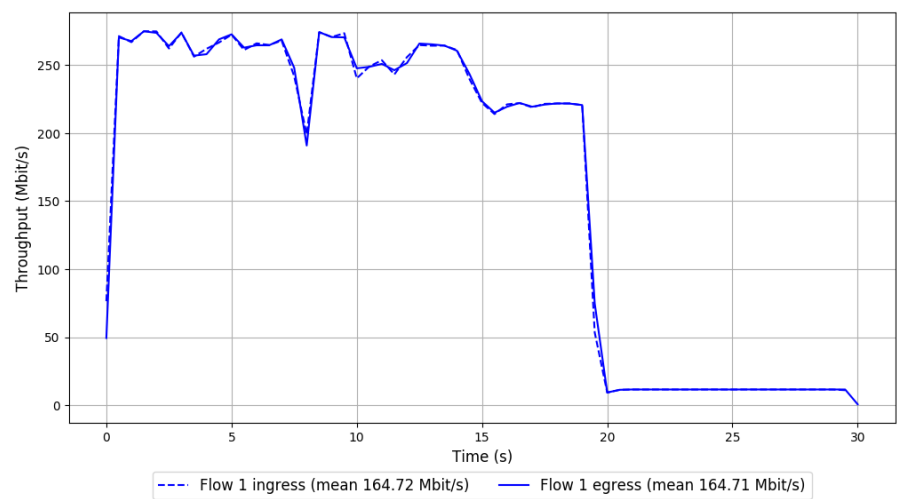


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-13 06:03:37
End at: 2018-03-13 06:04:08

# Below is generated by plot.py at 2018-03-13 11:00:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.71 Mbit/s
95th percentile per-packet one-way delay: 53.723 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.71 Mbit/s
95th percentile per-packet one-way delay: 53.723 ms
Loss rate: 0.00%
```

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

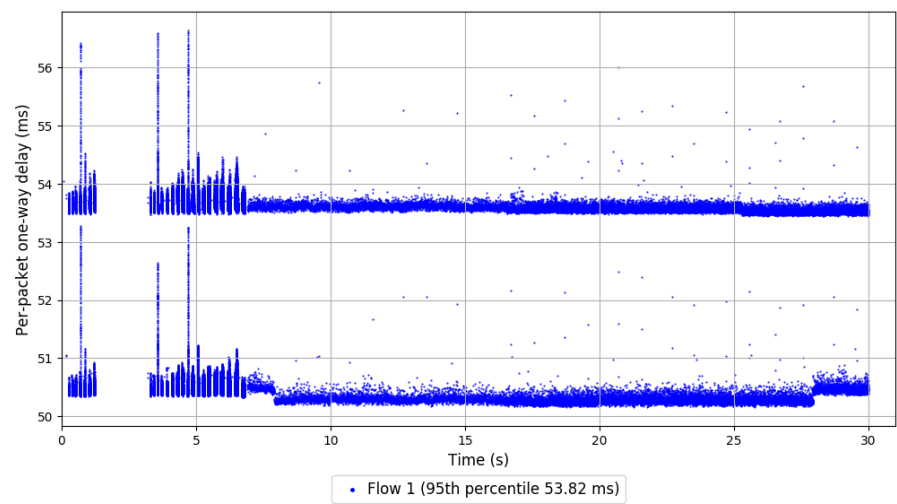
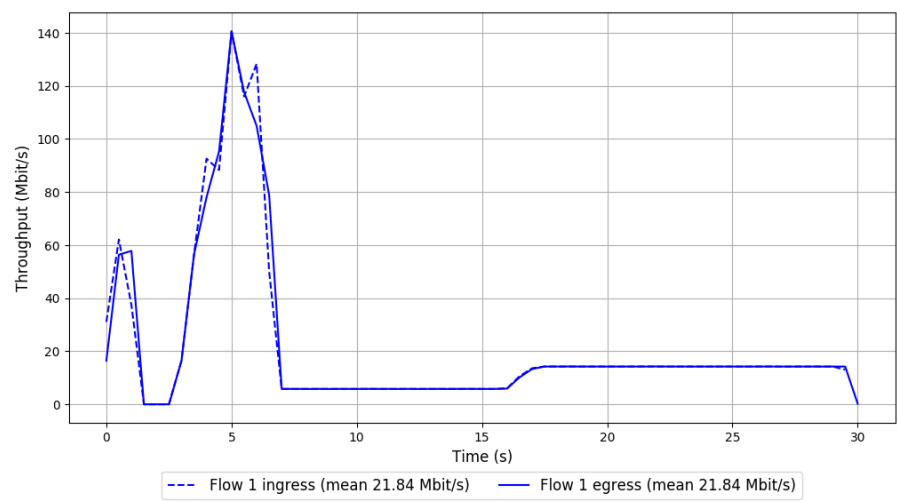


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-13 06:18:12
End at: 2018-03-13 06:18:42

# Below is generated by plot.py at 2018-03-13 11:00:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.84 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-13 06:32:21

End at: 2018-03-13 06:32:52

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 53.645 ms

Loss rate: 0.00%

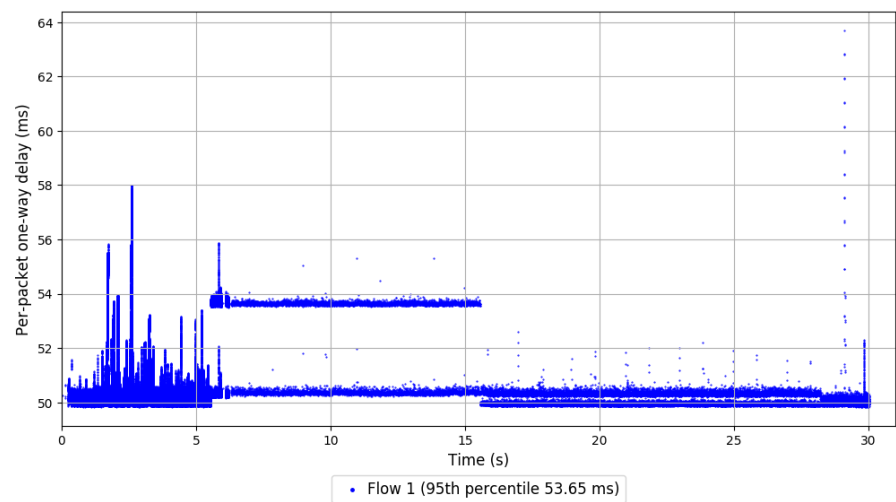
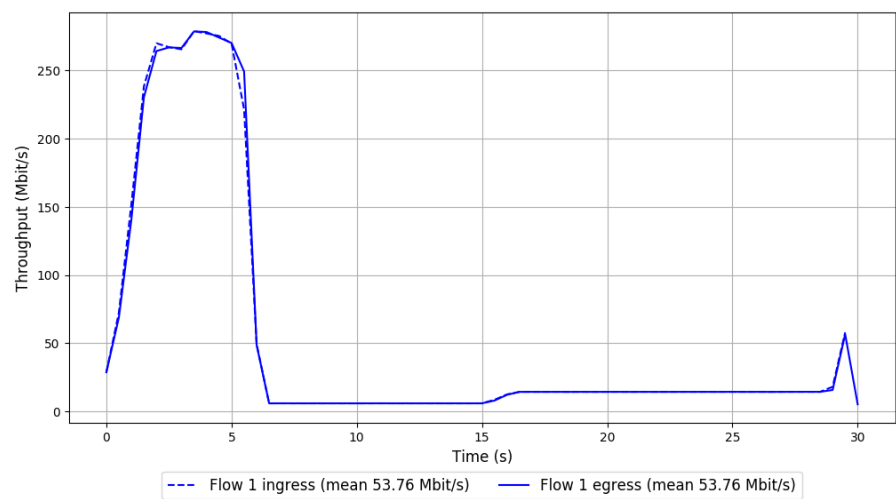
-- Flow 1:

Average throughput: 53.76 Mbit/s

95th percentile per-packet one-way delay: 53.645 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-13 06:46:56

End at: 2018-03-13 06:47:26

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.86 Mbit/s

95th percentile per-packet one-way delay: 53.548 ms

Loss rate: 0.00%

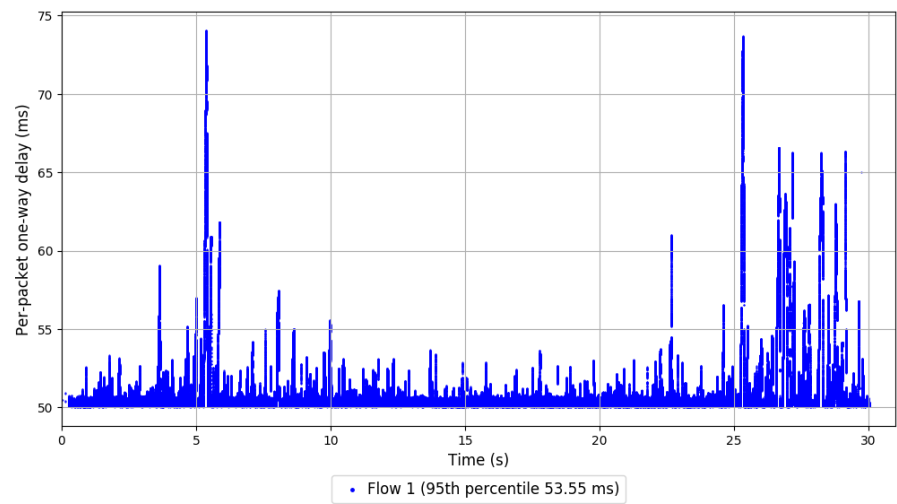
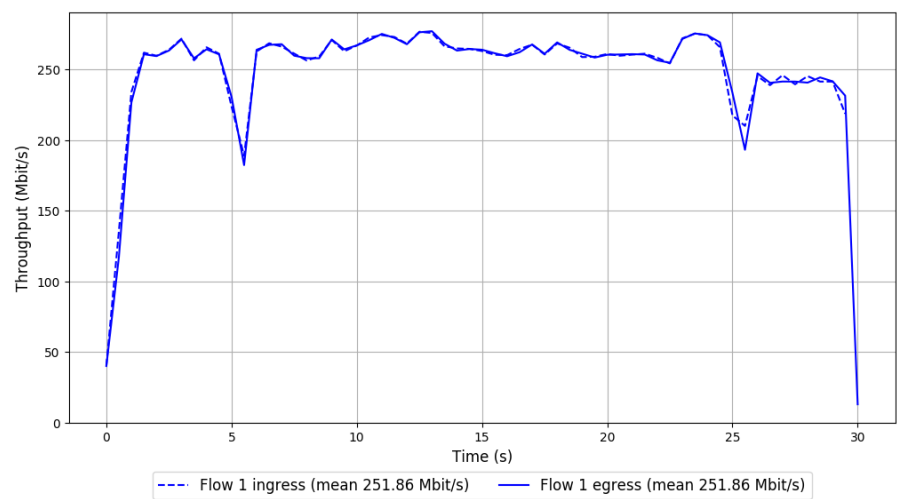
-- Flow 1:

Average throughput: 251.86 Mbit/s

95th percentile per-packet one-way delay: 53.548 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-13 07:01:30

End at: 2018-03-13 07:02:00

Below is generated by plot.py at 2018-03-13 11:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 53.650 ms

Loss rate: 0.00%

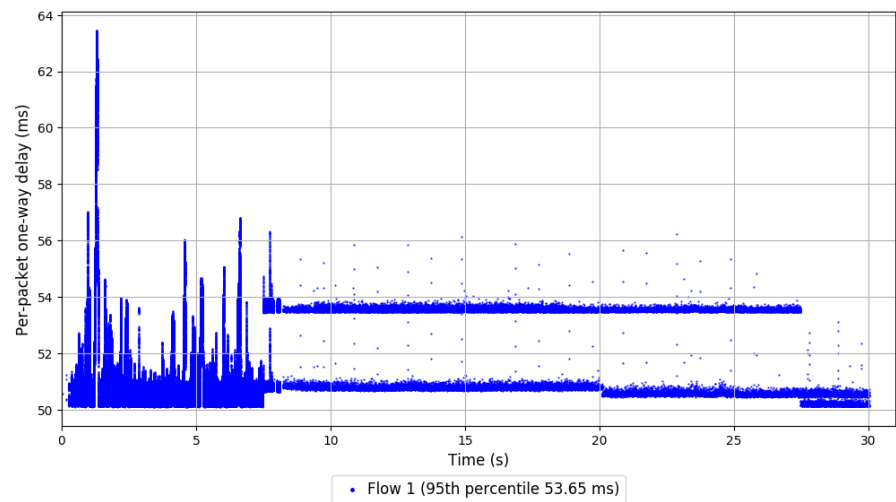
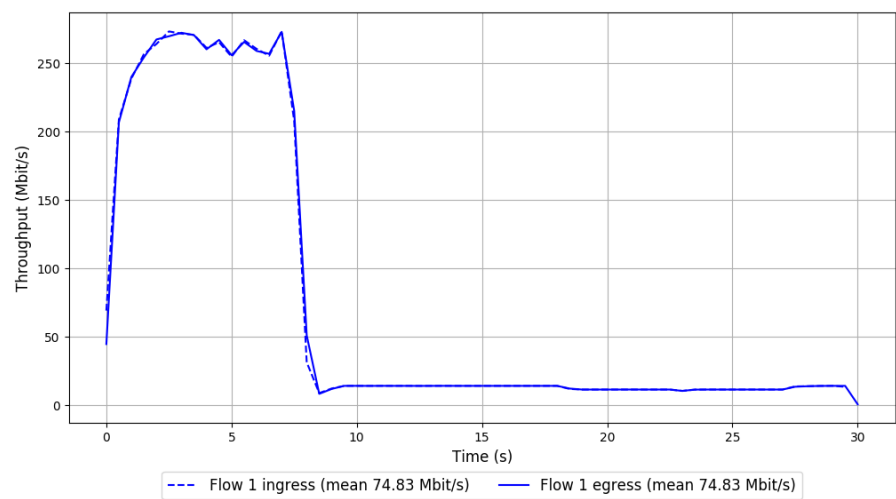
-- Flow 1:

Average throughput: 74.83 Mbit/s

95th percentile per-packet one-way delay: 53.650 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-13 07:15:49

End at: 2018-03-13 07:16:19

Below is generated by plot.py at 2018-03-13 11:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.46 Mbit/s

95th percentile per-packet one-way delay: 51.638 ms

Loss rate: 0.00%

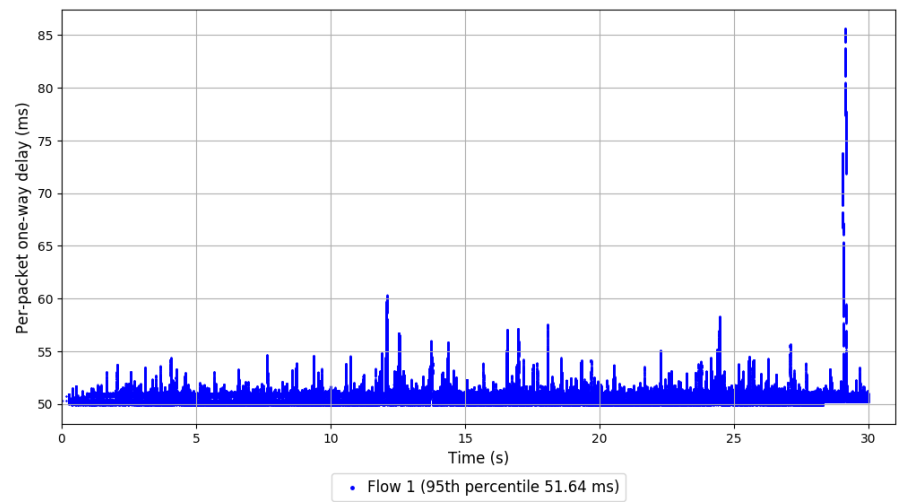
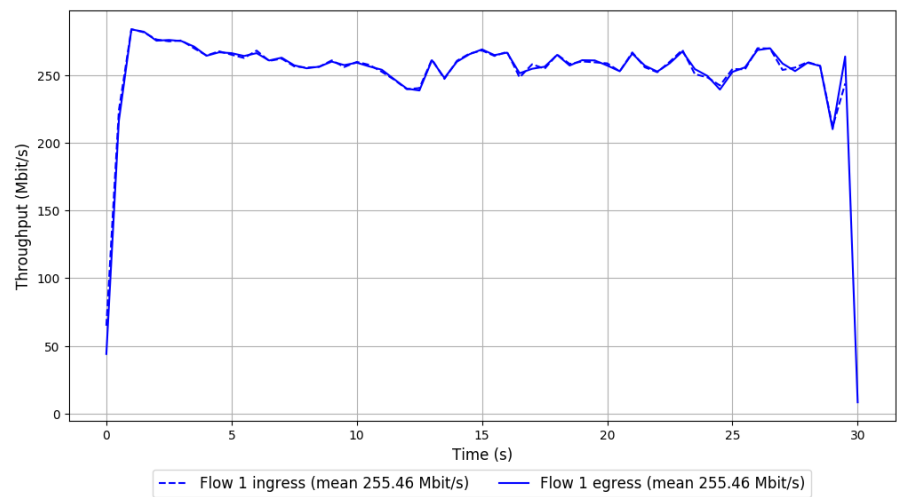
-- Flow 1:

Average throughput: 255.46 Mbit/s

95th percentile per-packet one-way delay: 51.638 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-13 07:30:28

End at: 2018-03-13 07:30:58

Below is generated by plot.py at 2018-03-13 11:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.46 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.00%

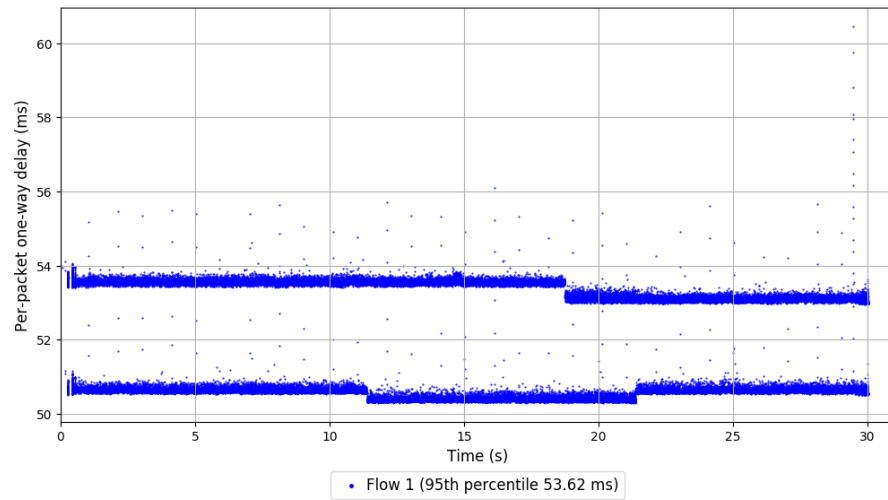
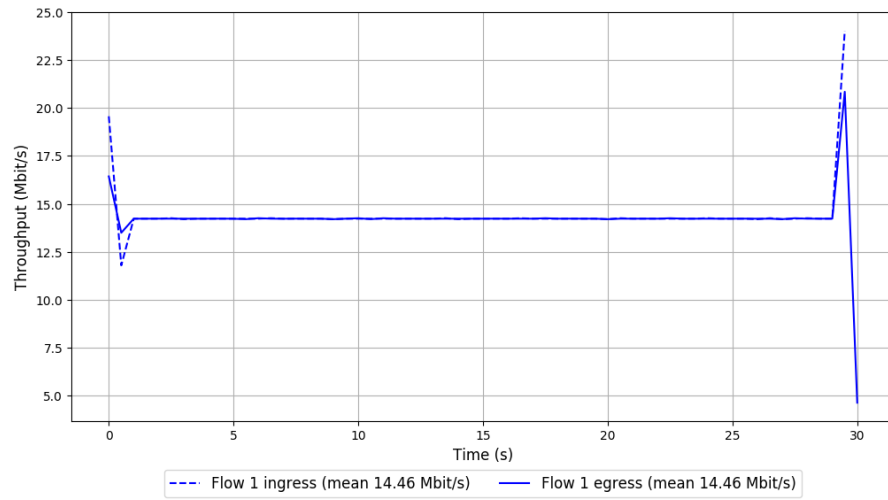
-- Flow 1:

Average throughput: 14.46 Mbit/s

95th percentile per-packet one-way delay: 53.623 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-13 07:44:42

End at: 2018-03-13 07:45:12

Below is generated by plot.py at 2018-03-13 11:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 53.286 ms

Loss rate: 0.00%

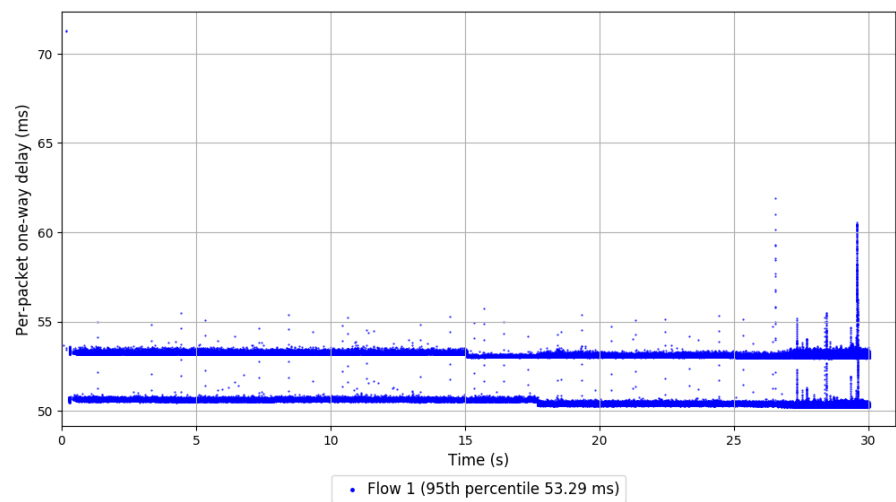
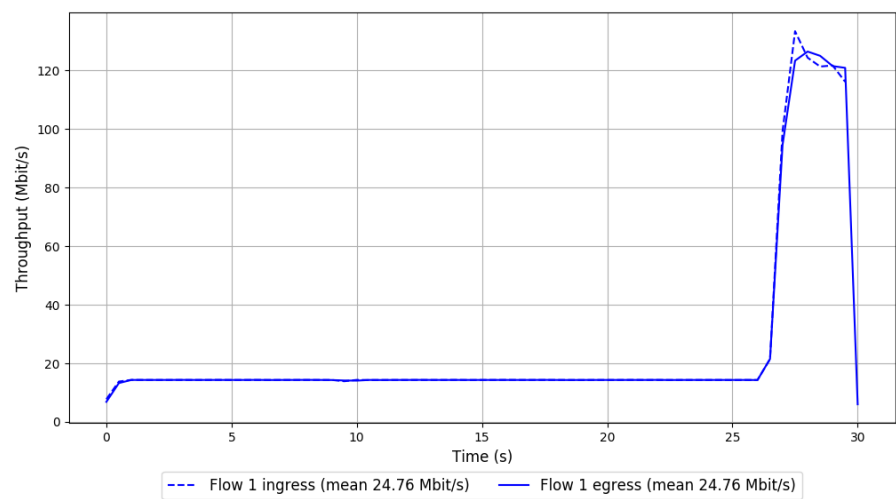
-- Flow 1:

Average throughput: 24.76 Mbit/s

95th percentile per-packet one-way delay: 53.286 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-13 07:58:48

End at: 2018-03-13 07:59:18

Below is generated by plot.py at 2018-03-13 11:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.30 Mbit/s

95th percentile per-packet one-way delay: 53.191 ms

Loss rate: 0.00%

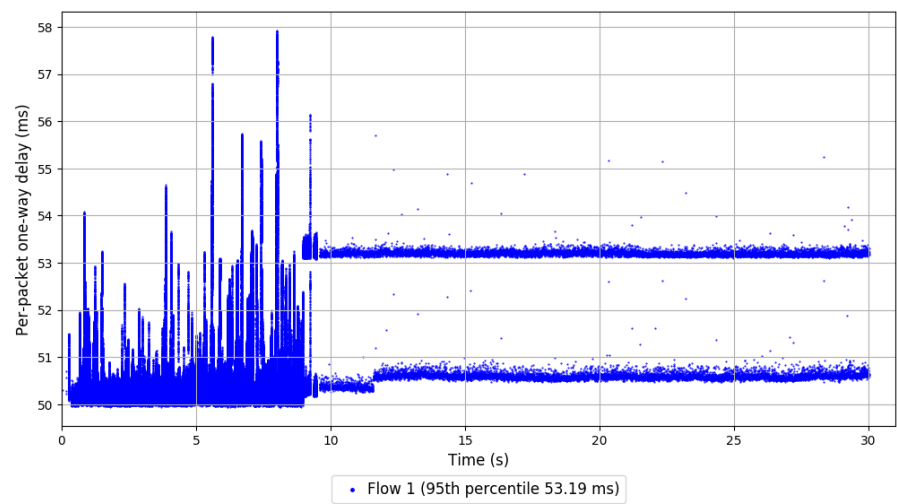
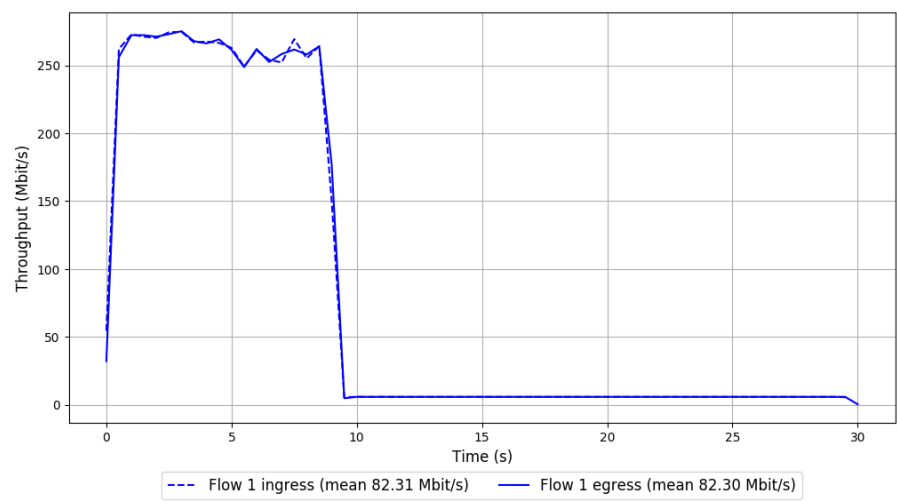
-- Flow 1:

Average throughput: 82.30 Mbit/s

95th percentile per-packet one-way delay: 53.191 ms

Loss rate: 0.00%

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

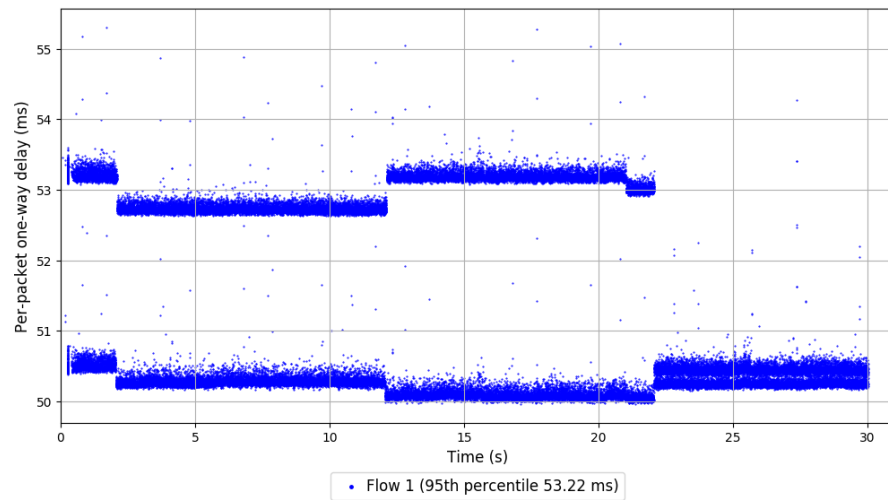
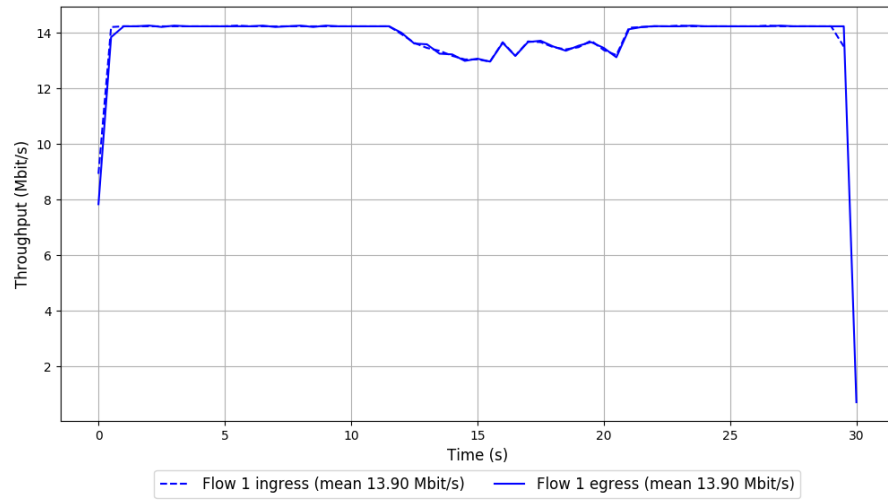


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-13 08:12:58
End at: 2018-03-13 08:13:28

# Below is generated by plot.py at 2018-03-13 11:00:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 53.222 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.90 Mbit/s
95th percentile per-packet one-way delay: 53.222 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-13 06:10:14

End at: 2018-03-13 06:10:44

Below is generated by plot.py at 2018-03-13 11:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.39 Mbit/s

95th percentile per-packet one-way delay: 59.553 ms

Loss rate: 0.00%

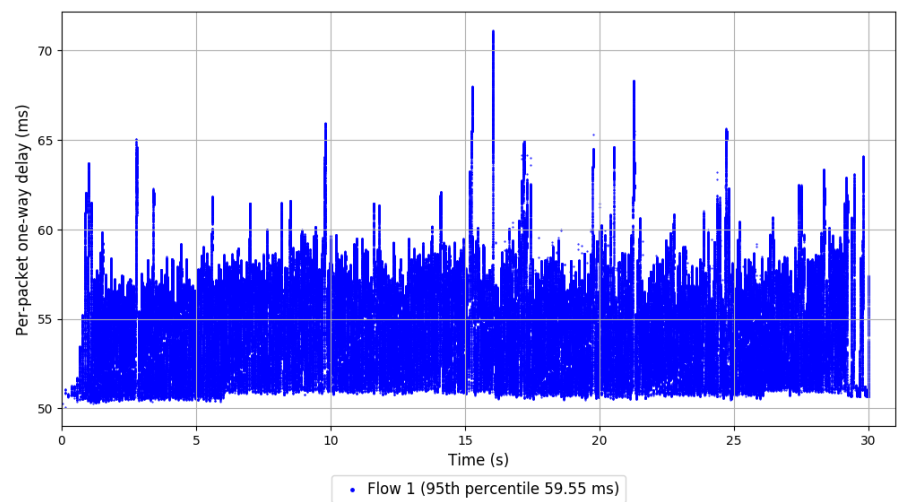
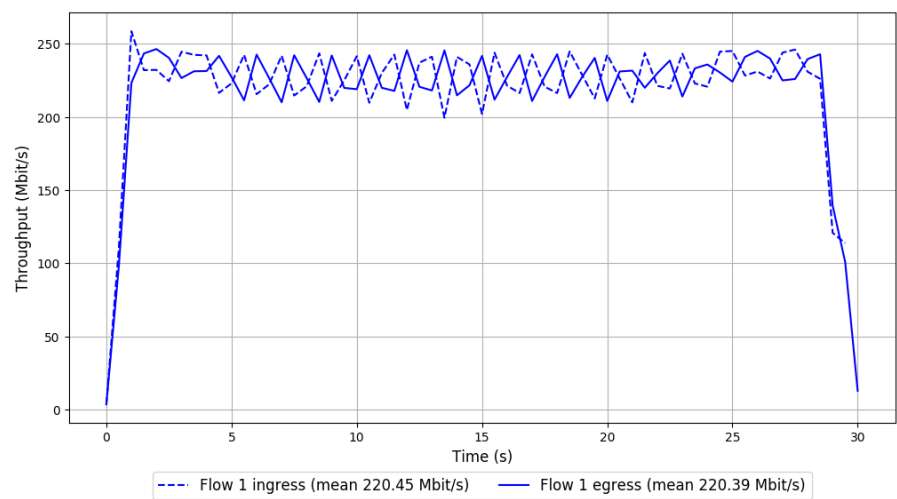
-- Flow 1:

Average throughput: 220.39 Mbit/s

95th percentile per-packet one-way delay: 59.553 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-13 06:24:32

End at: 2018-03-13 06:25:02

Below is generated by plot.py at 2018-03-13 11:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 0.00%

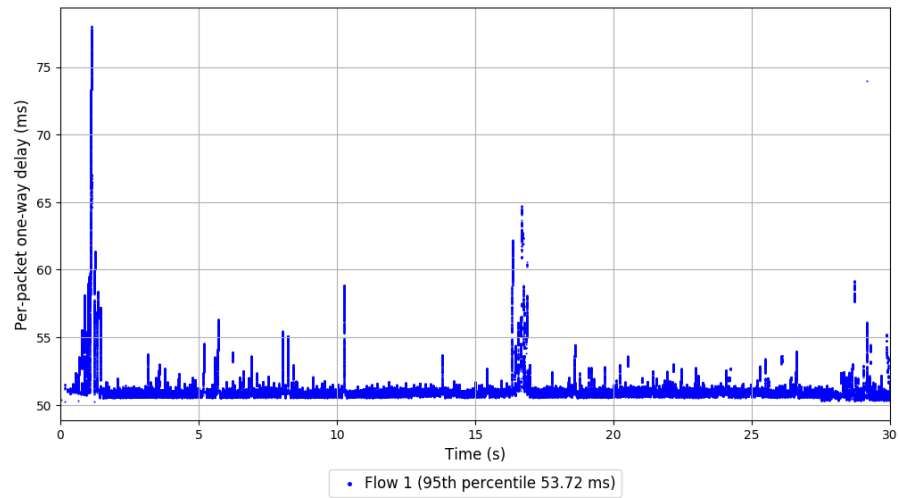
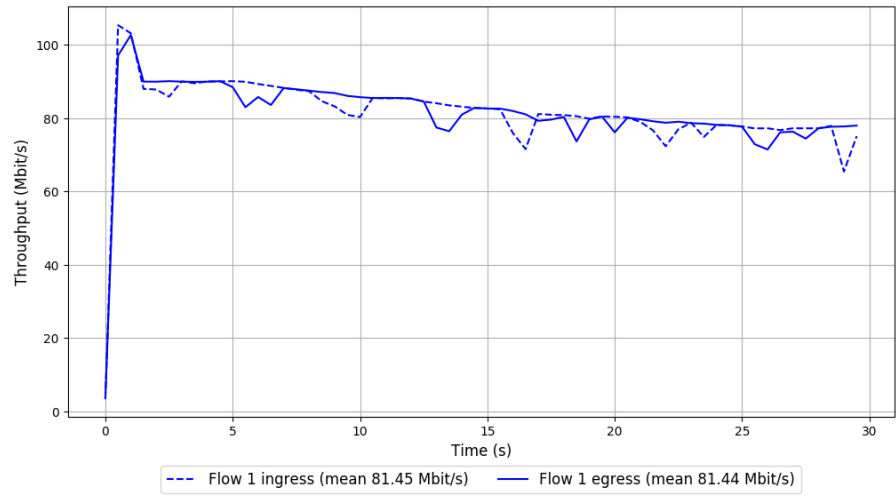
-- Flow 1:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-13 06:39:03

End at: 2018-03-13 06:39:33

Below is generated by plot.py at 2018-03-13 11:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 58.348 ms

Loss rate: 0.00%

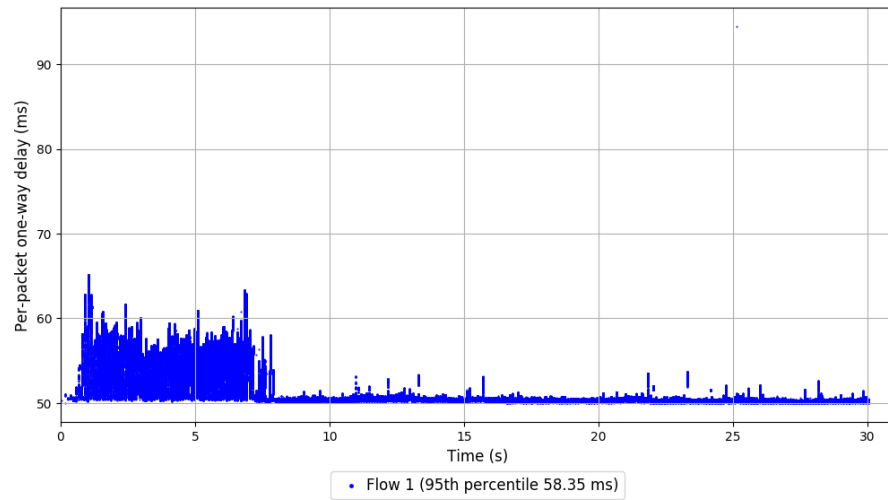
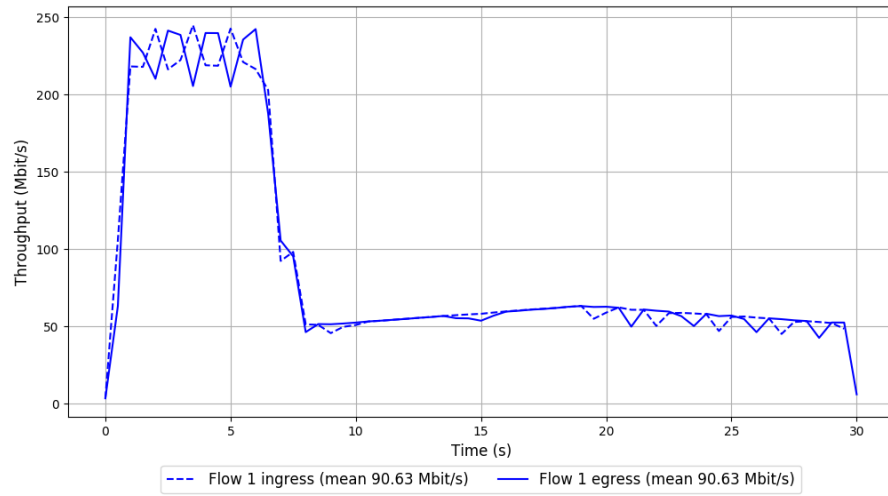
-- Flow 1:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 58.348 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-13 06:53:39

End at: 2018-03-13 06:54:09

Below is generated by plot.py at 2018-03-13 11:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.67 Mbit/s

95th percentile per-packet one-way delay: 53.533 ms

Loss rate: 0.00%

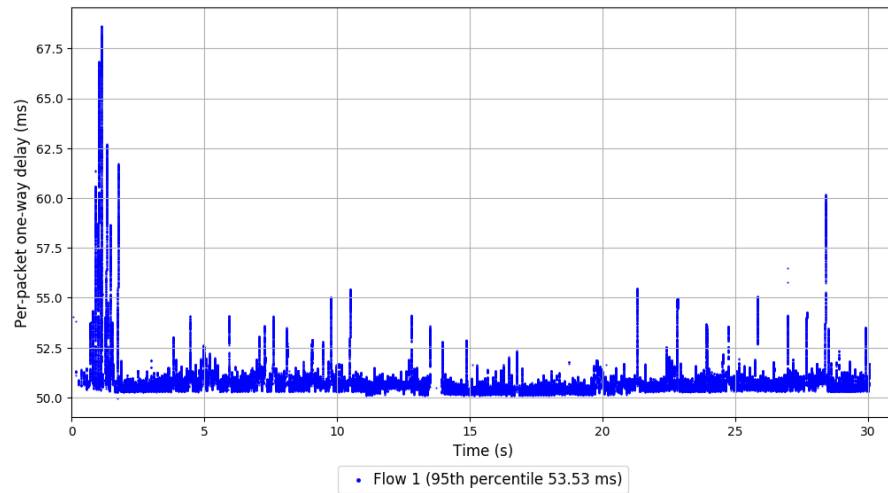
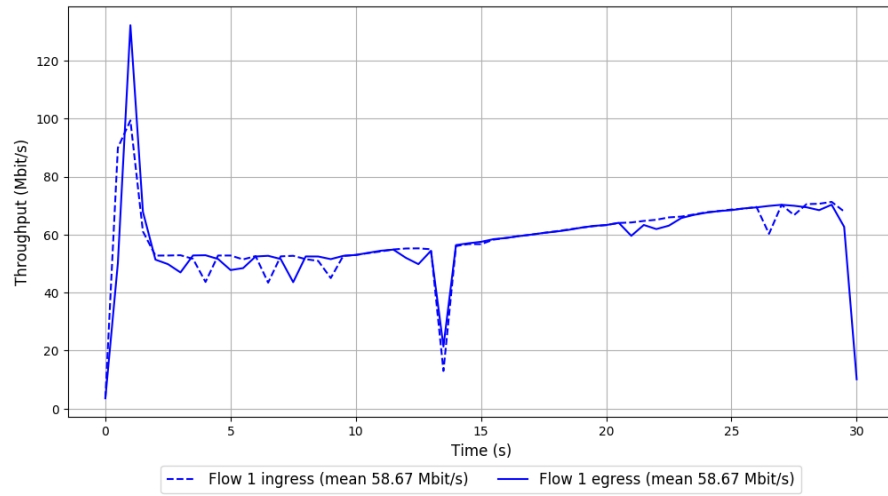
-- Flow 1:

Average throughput: 58.67 Mbit/s

95th percentile per-packet one-way delay: 53.533 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-13 07:07:59

End at: 2018-03-13 07:08:29

Below is generated by plot.py at 2018-03-13 11:00:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.77 Mbit/s

95th percentile per-packet one-way delay: 53.305 ms

Loss rate: 0.00%

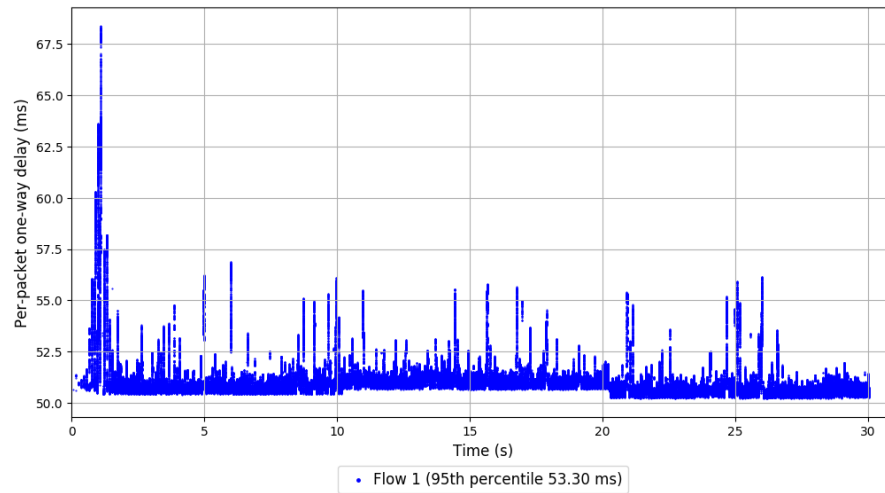
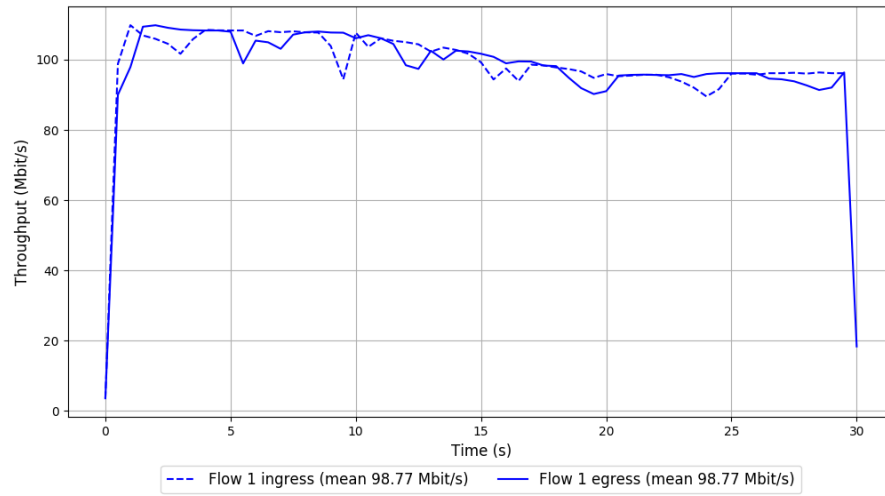
-- Flow 1:

Average throughput: 98.77 Mbit/s

95th percentile per-packet one-way delay: 53.305 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-13 07:22:28

End at: 2018-03-13 07:22:58

Below is generated by plot.py at 2018-03-13 11:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.72 Mbit/s

95th percentile per-packet one-way delay: 60.527 ms

Loss rate: 0.00%

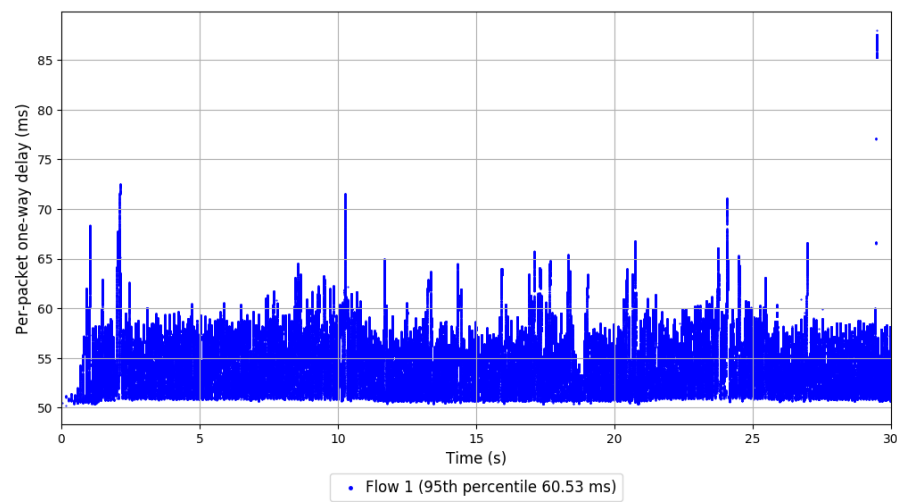
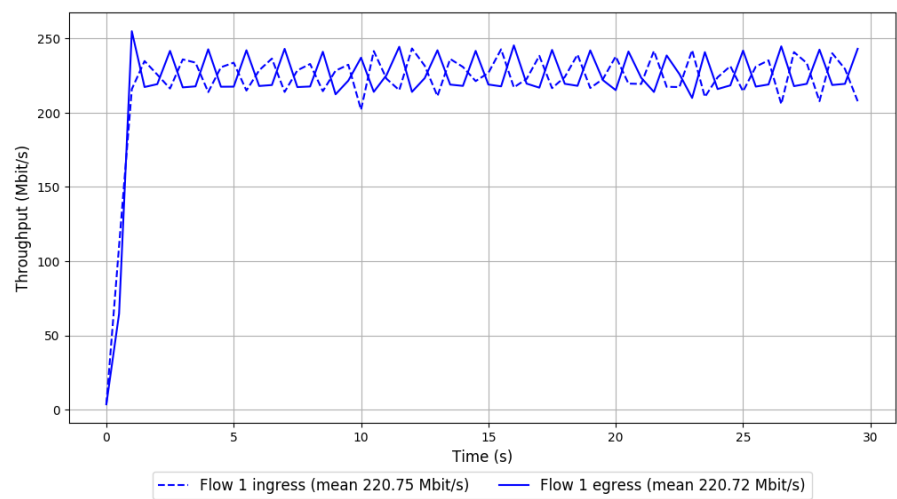
-- Flow 1:

Average throughput: 220.72 Mbit/s

95th percentile per-packet one-way delay: 60.527 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-13 07:36:45

End at: 2018-03-13 07:37:15

Below is generated by plot.py at 2018-03-13 11:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.34 Mbit/s

95th percentile per-packet one-way delay: 52.616 ms

Loss rate: 0.00%

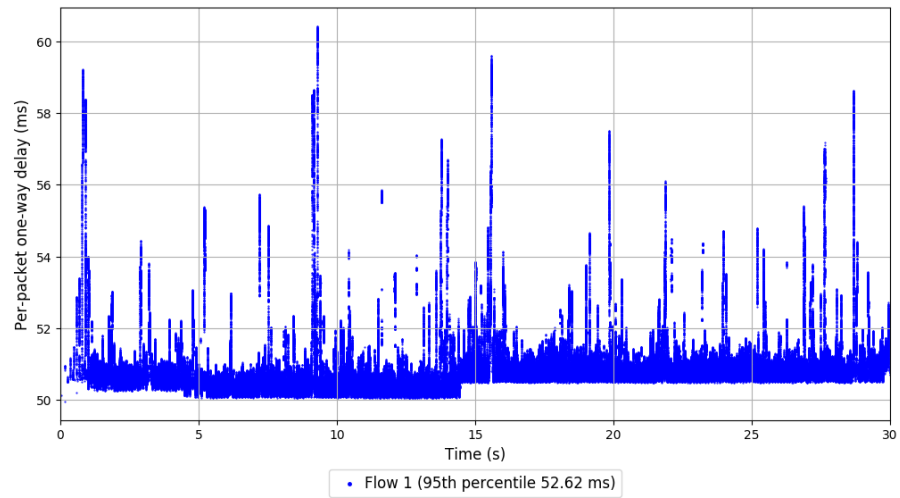
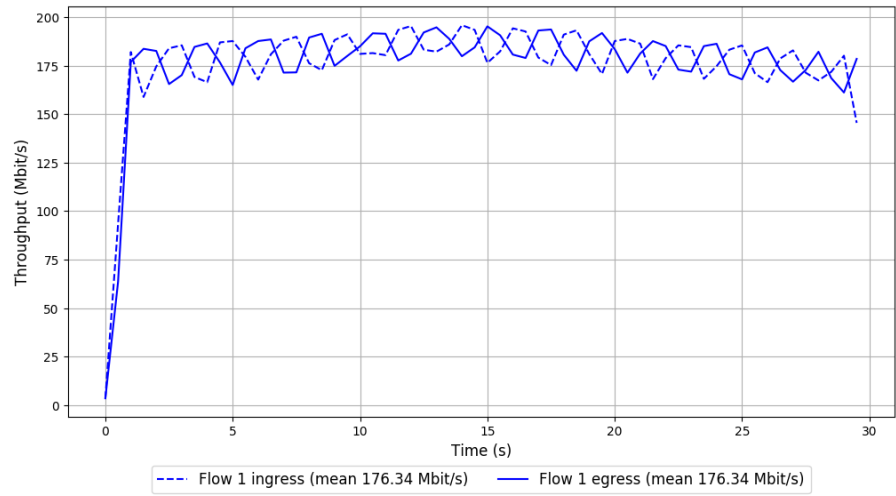
-- Flow 1:

Average throughput: 176.34 Mbit/s

95th percentile per-packet one-way delay: 52.616 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-13 07:50:56

End at: 2018-03-13 07:51:26

Below is generated by plot.py at 2018-03-13 11:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.05 Mbit/s

95th percentile per-packet one-way delay: 52.184 ms

Loss rate: 0.00%

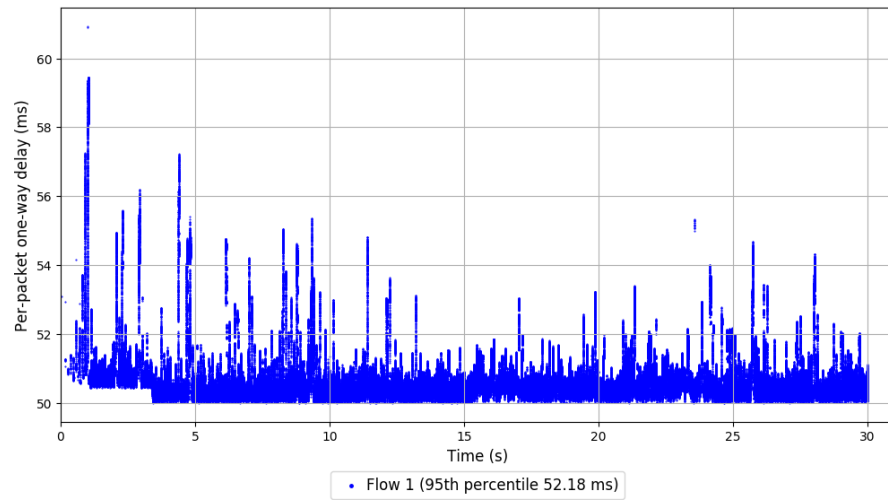
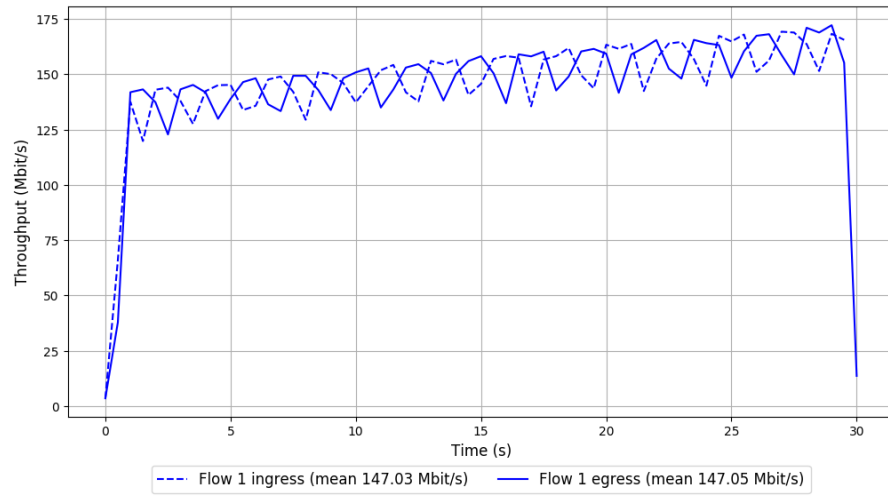
-- Flow 1:

Average throughput: 147.05 Mbit/s

95th percentile per-packet one-way delay: 52.184 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-13 08:05:10

End at: 2018-03-13 08:05:40

Below is generated by plot.py at 2018-03-13 11:01:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.12 Mbit/s

95th percentile per-packet one-way delay: 51.941 ms

Loss rate: 0.00%

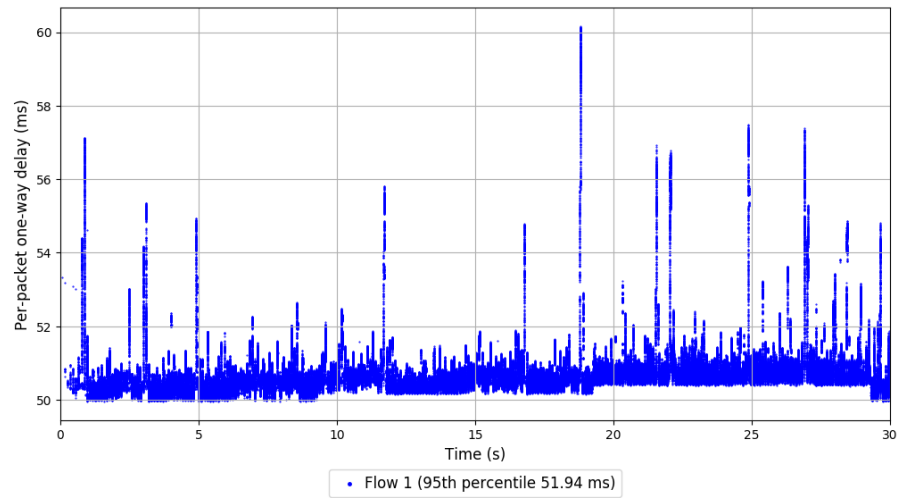
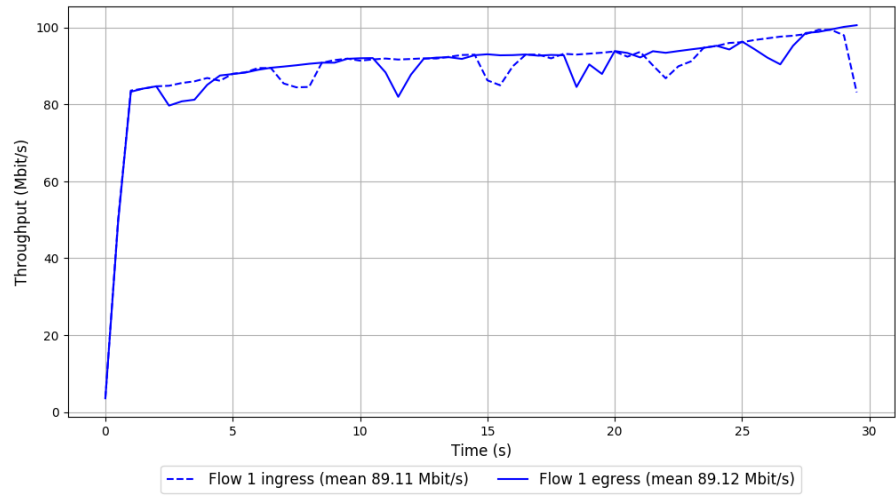
-- Flow 1:

Average throughput: 89.12 Mbit/s

95th percentile per-packet one-way delay: 51.941 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-13 08:19:15

End at: 2018-03-13 08:19:45

Below is generated by plot.py at 2018-03-13 11:04:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.47 Mbit/s

95th percentile per-packet one-way delay: 59.522 ms

Loss rate: 0.00%

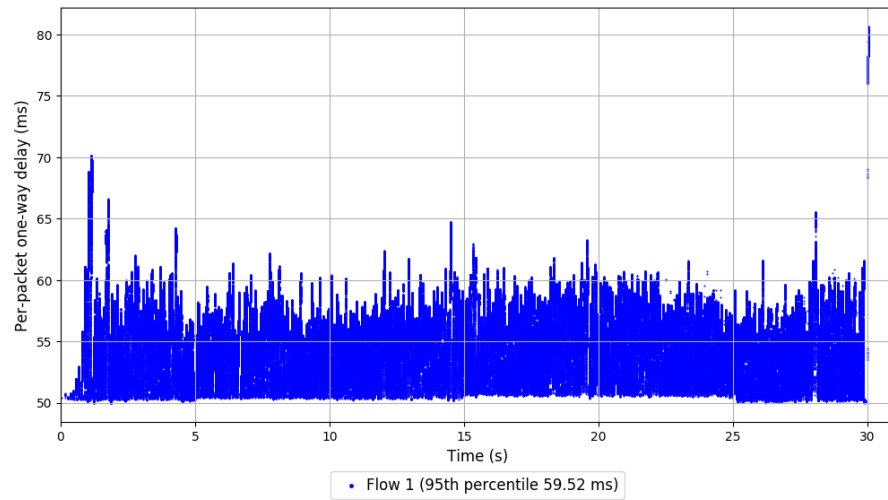
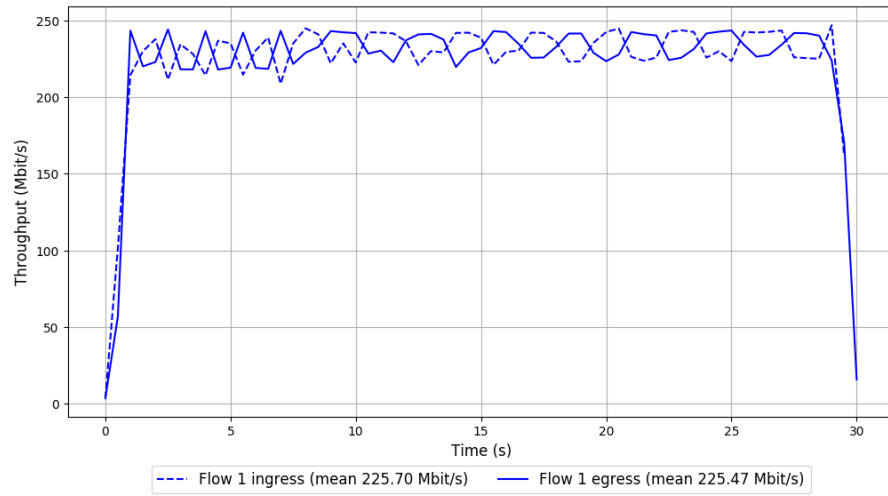
-- Flow 1:

Average throughput: 225.47 Mbit/s

95th percentile per-packet one-way delay: 59.522 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

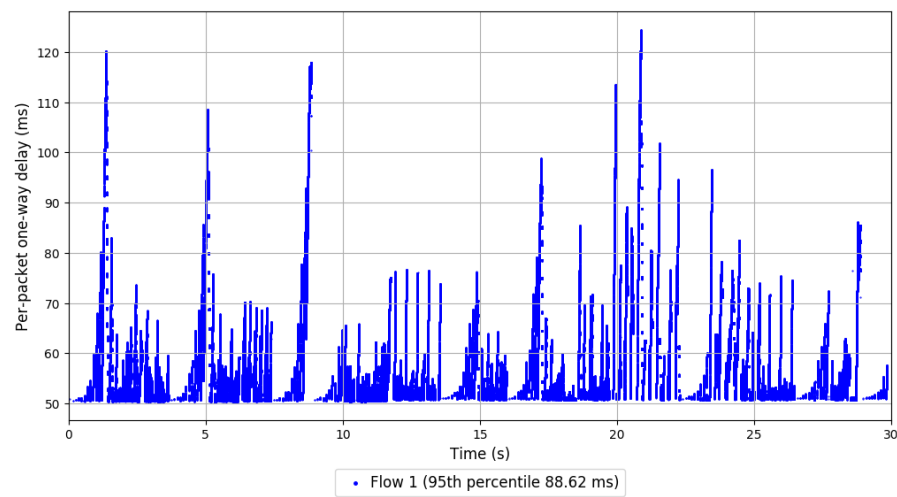
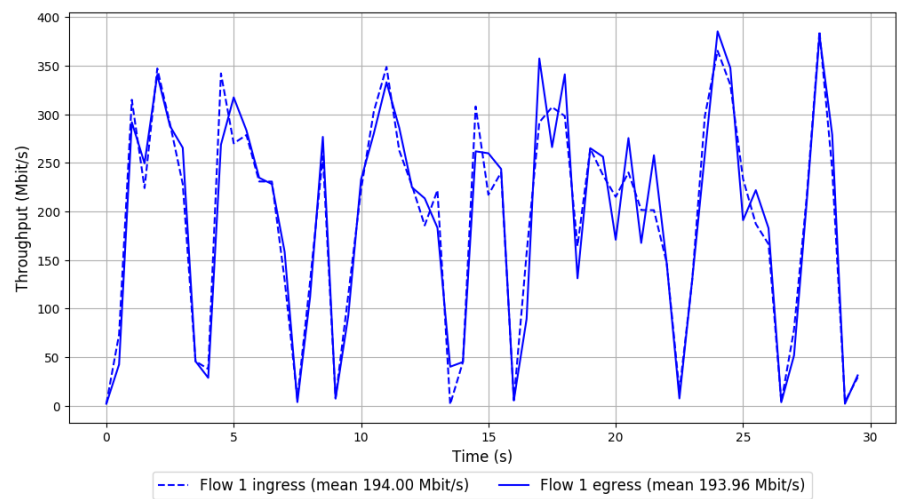


```
Run 1: Statistics of Verus

Start at: 2018-03-13 06:00:28
End at: 2018-03-13 06:00:58

# Below is generated by plot.py at 2018-03-13 11:04:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.96 Mbit/s
95th percentile per-packet one-way delay: 88.621 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.96 Mbit/s
95th percentile per-packet one-way delay: 88.621 ms
Loss rate: 0.00%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-13 06:15:00

End at: 2018-03-13 06:15:30

Below is generated by plot.py at 2018-03-13 11:06:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.04 Mbit/s

95th percentile per-packet one-way delay: 203.855 ms

Loss rate: 2.01%

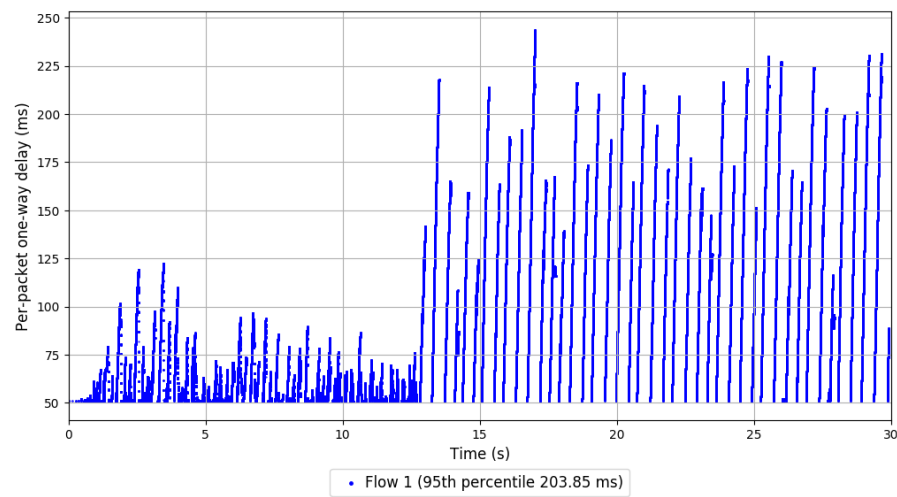
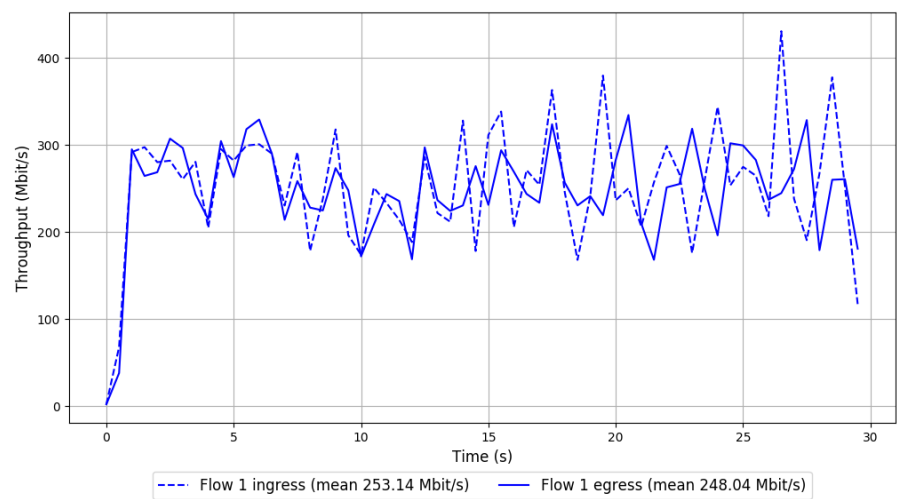
-- Flow 1:

Average throughput: 248.04 Mbit/s

95th percentile per-packet one-way delay: 203.855 ms

Loss rate: 2.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-13 06:29:11

End at: 2018-03-13 06:29:41

Below is generated by plot.py at 2018-03-13 11:06:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.06 Mbit/s

95th percentile per-packet one-way delay: 99.759 ms

Loss rate: 0.10%

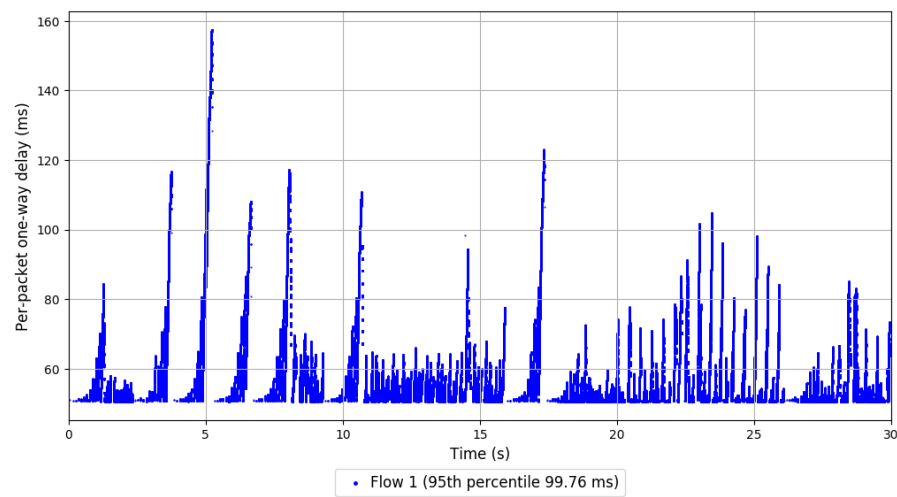
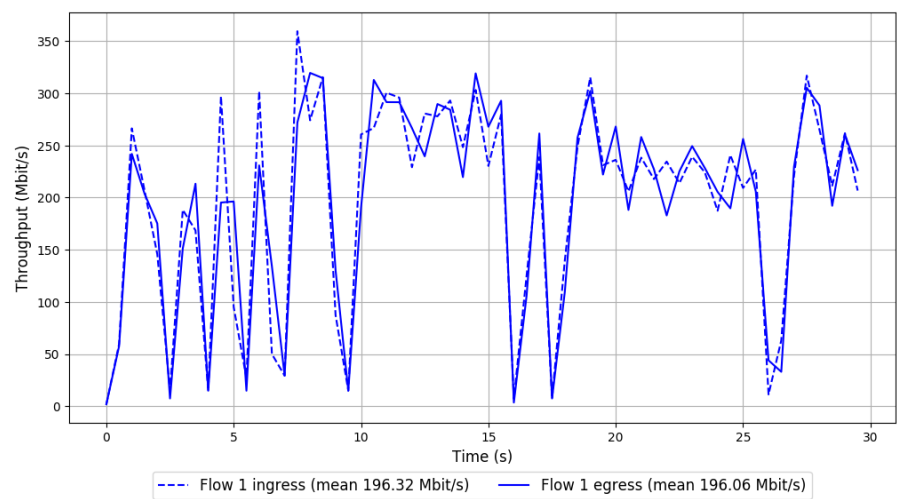
-- Flow 1:

Average throughput: 196.06 Mbit/s

95th percentile per-packet one-way delay: 99.759 ms

Loss rate: 0.10%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-13 06:43:46

End at: 2018-03-13 06:44:16

Below is generated by plot.py at 2018-03-13 11:06:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.15 Mbit/s

95th percentile per-packet one-way delay: 78.813 ms

Loss rate: 0.00%

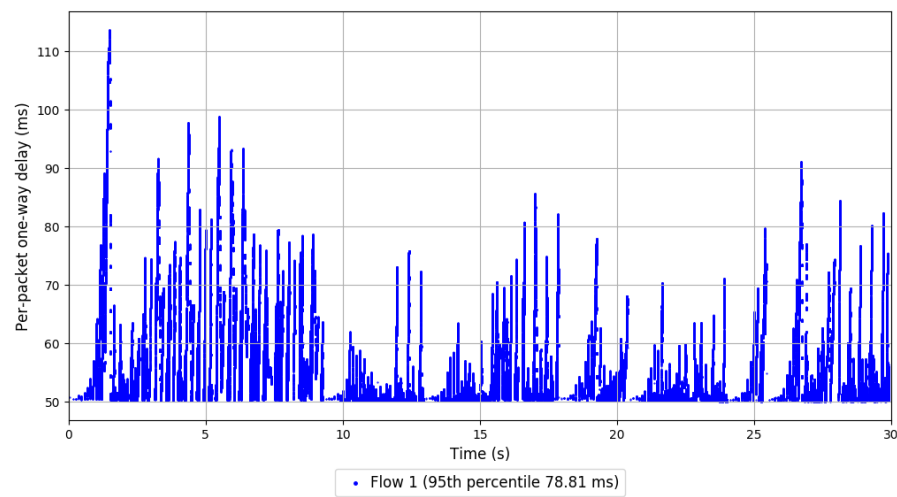
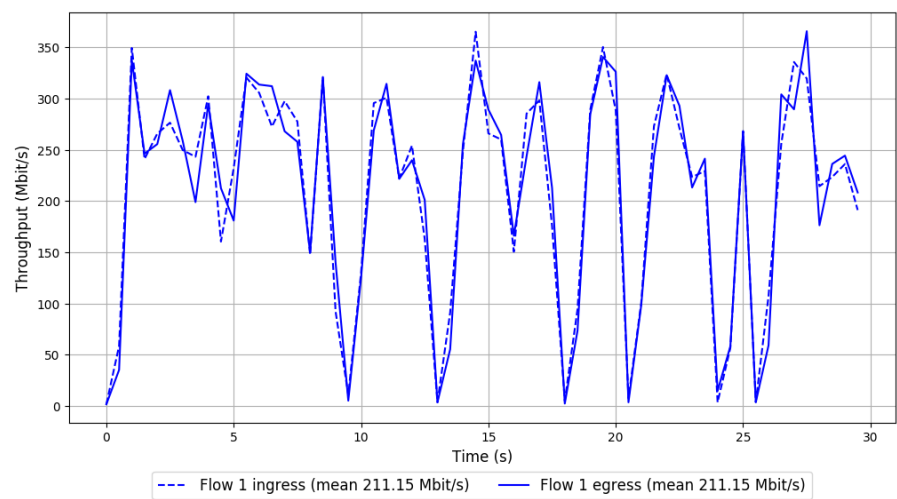
-- Flow 1:

Average throughput: 211.15 Mbit/s

95th percentile per-packet one-way delay: 78.813 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-13 06:58:17

End at: 2018-03-13 06:58:47

Below is generated by plot.py at 2018-03-13 11:06:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.30 Mbit/s

95th percentile per-packet one-way delay: 112.501 ms

Loss rate: 1.10%

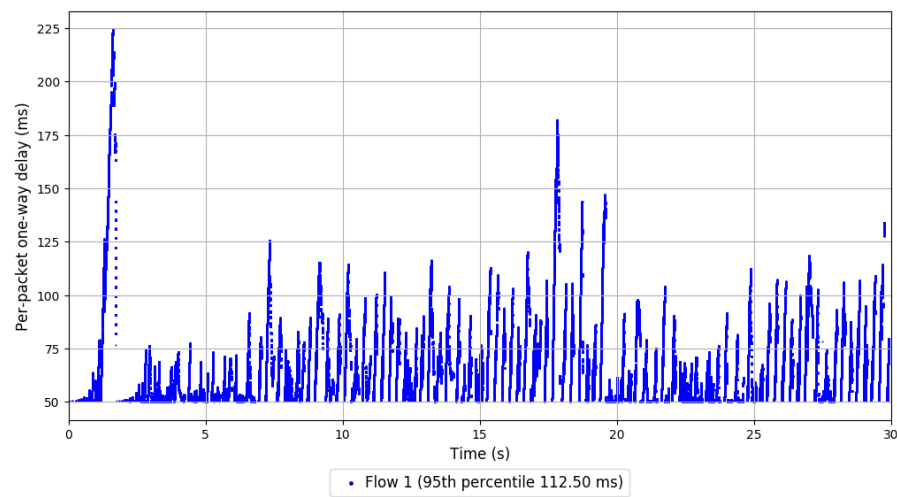
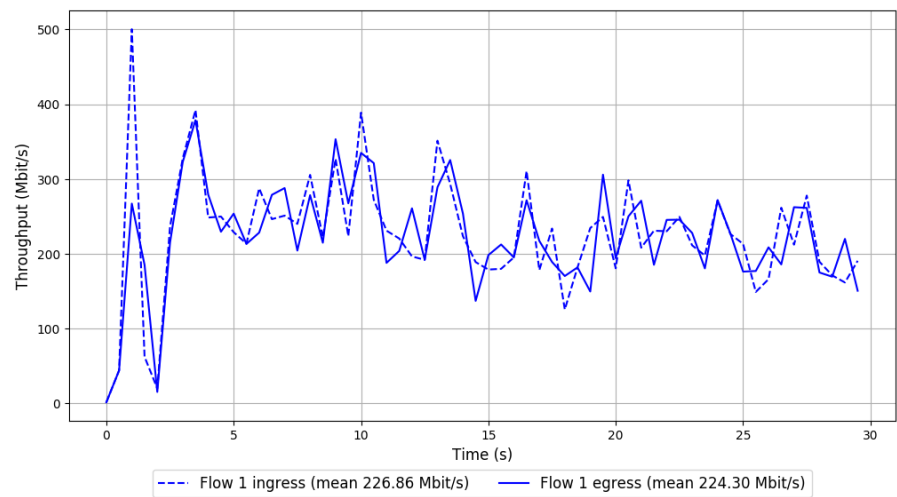
-- Flow 1:

Average throughput: 224.30 Mbit/s

95th percentile per-packet one-way delay: 112.501 ms

Loss rate: 1.10%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-13 07:12:37

End at: 2018-03-13 07:13:07

Below is generated by plot.py at 2018-03-13 11:06:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.46 Mbit/s

95th percentile per-packet one-way delay: 106.644 ms

Loss rate: 0.03%

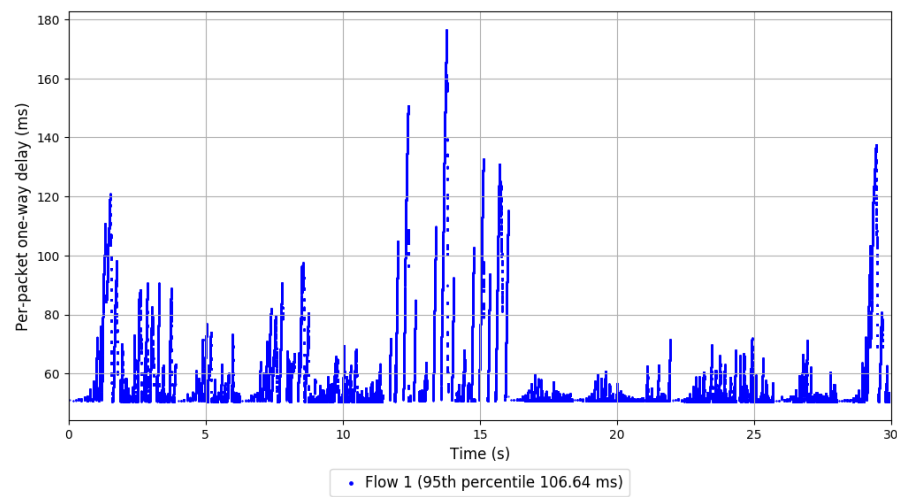
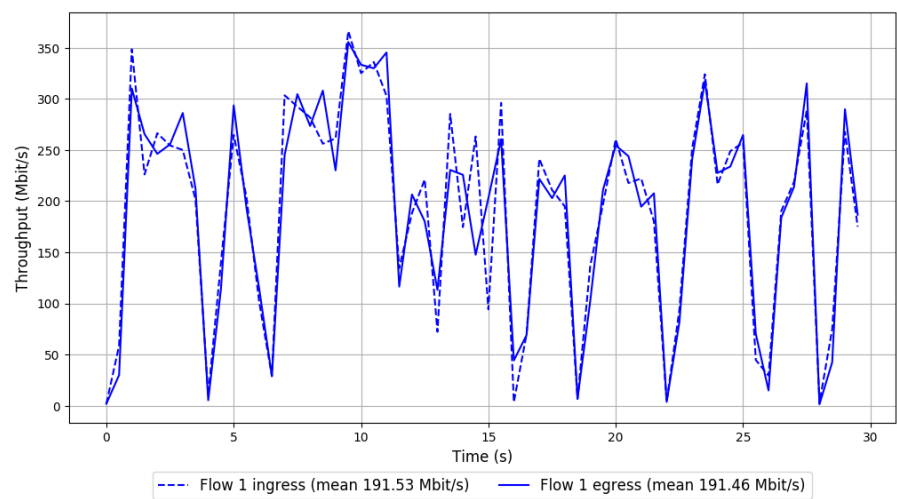
-- Flow 1:

Average throughput: 191.46 Mbit/s

95th percentile per-packet one-way delay: 106.644 ms

Loss rate: 0.03%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-13 07:27:14

End at: 2018-03-13 07:27:44

Below is generated by plot.py at 2018-03-13 11:07:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.17 Mbit/s

95th percentile per-packet one-way delay: 197.866 ms

Loss rate: 2.54%

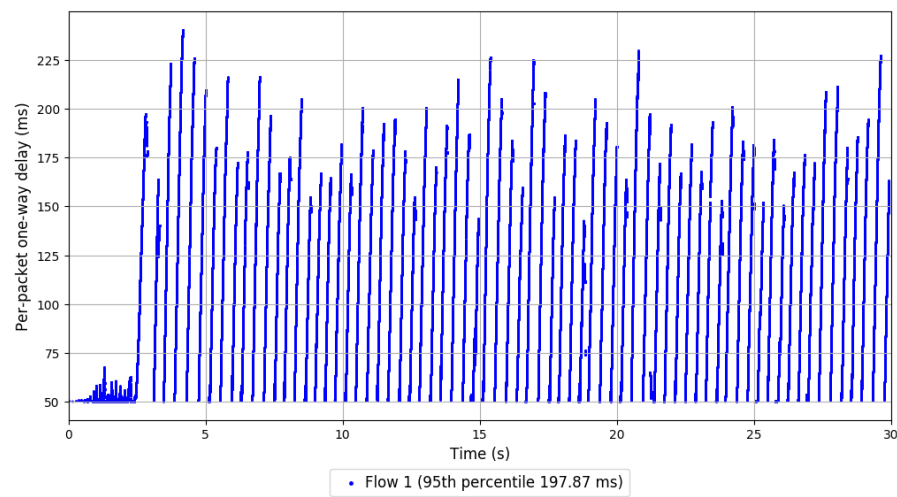
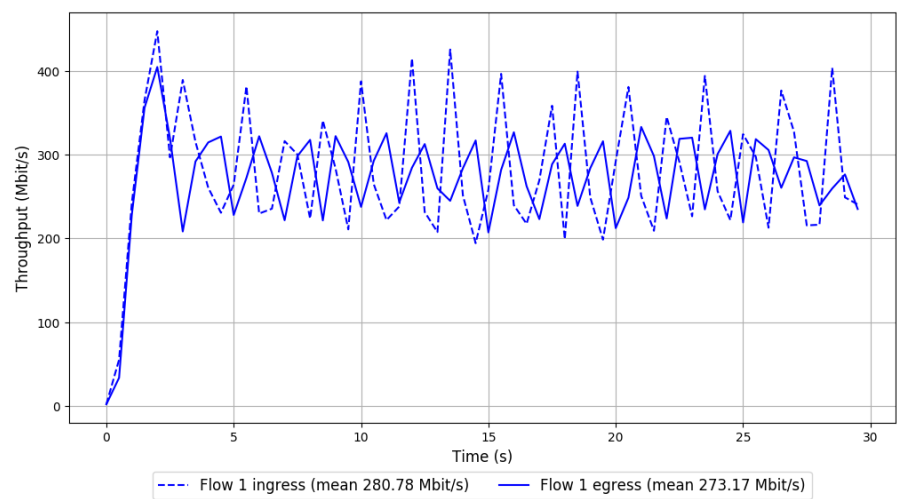
-- Flow 1:

Average throughput: 273.17 Mbit/s

95th percentile per-packet one-way delay: 197.866 ms

Loss rate: 2.54%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-13 07:41:28

End at: 2018-03-13 07:41:58

Below is generated by plot.py at 2018-03-13 11:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.25 Mbit/s

95th percentile per-packet one-way delay: 88.441 ms

Loss rate: 0.00%

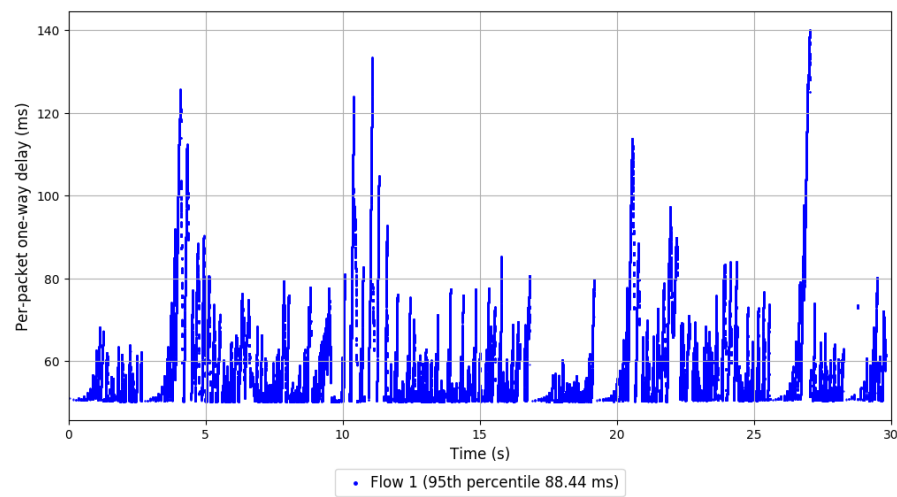
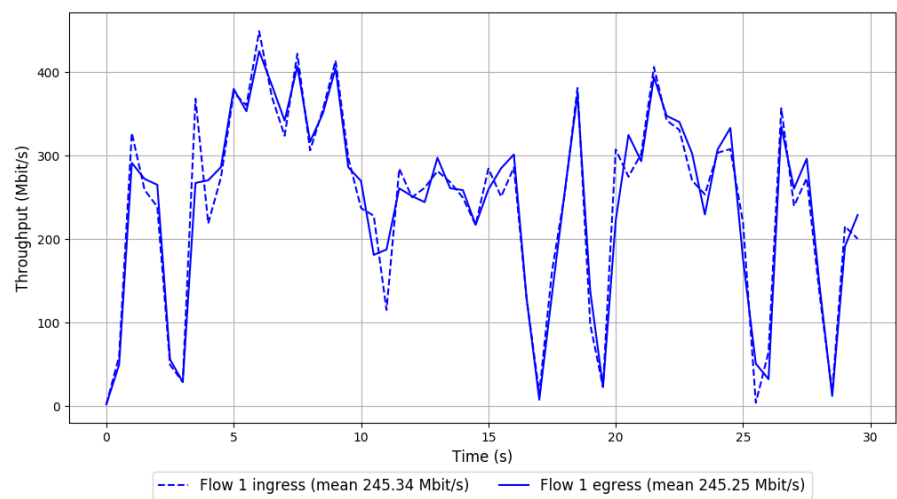
-- Flow 1:

Average throughput: 245.25 Mbit/s

95th percentile per-packet one-way delay: 88.441 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-13 07:55:35

End at: 2018-03-13 07:56:05

Below is generated by plot.py at 2018-03-13 11:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.57 Mbit/s

95th percentile per-packet one-way delay: 91.013 ms

Loss rate: 0.00%

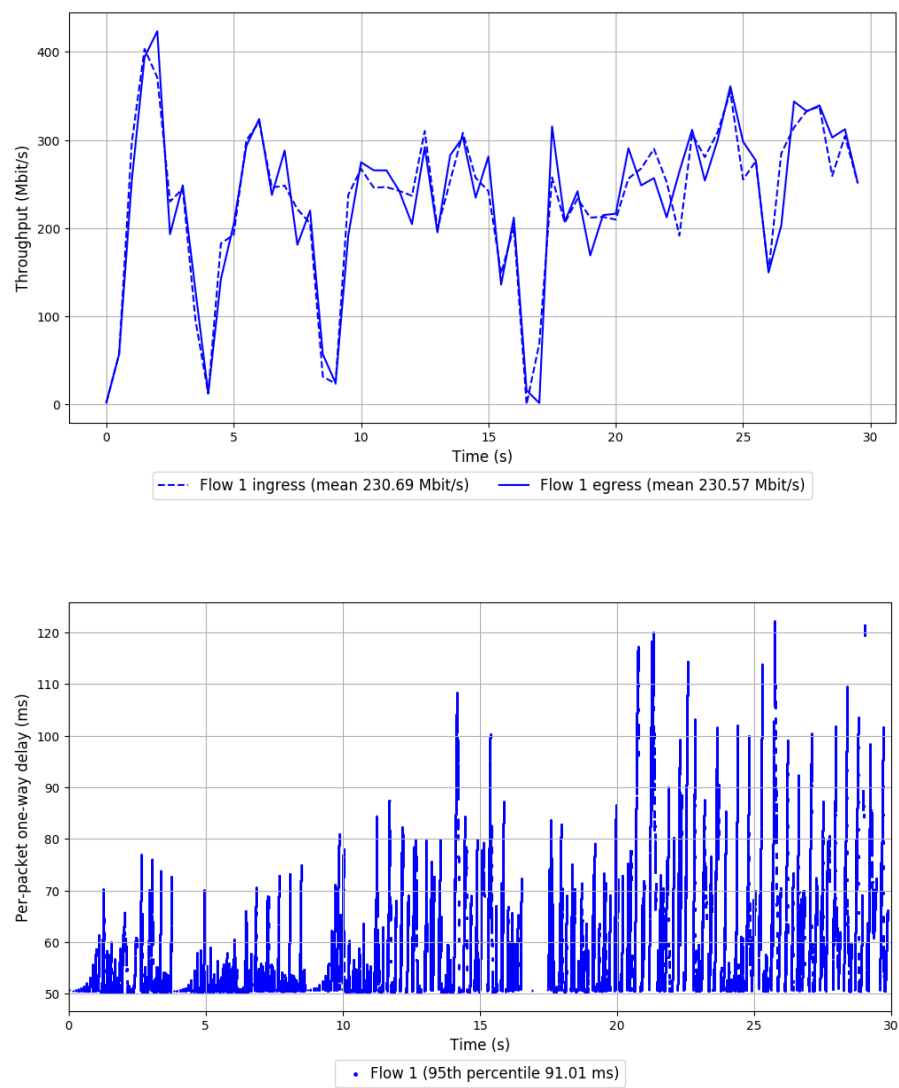
-- Flow 1:

Average throughput: 230.57 Mbit/s

95th percentile per-packet one-way delay: 91.013 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-13 08:09:46

End at: 2018-03-13 08:10:16

Below is generated by plot.py at 2018-03-13 11:09:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.71 Mbit/s

95th percentile per-packet one-way delay: 131.315 ms

Loss rate: 0.20%

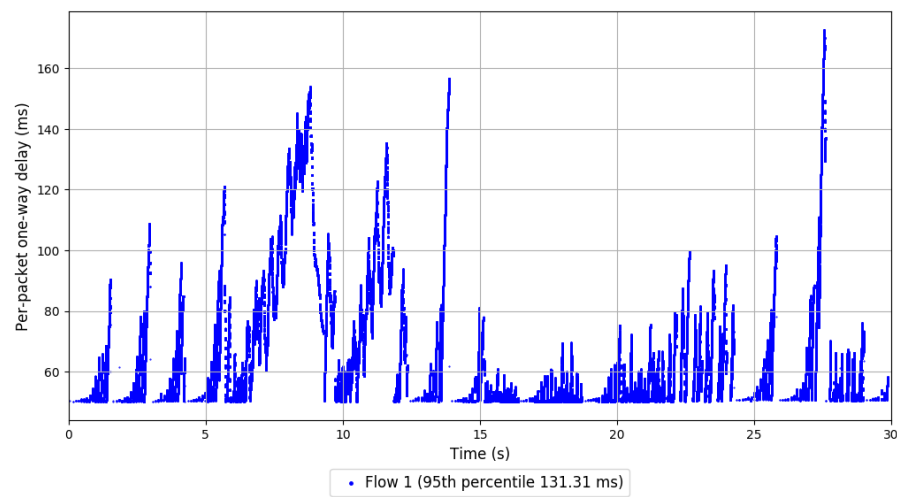
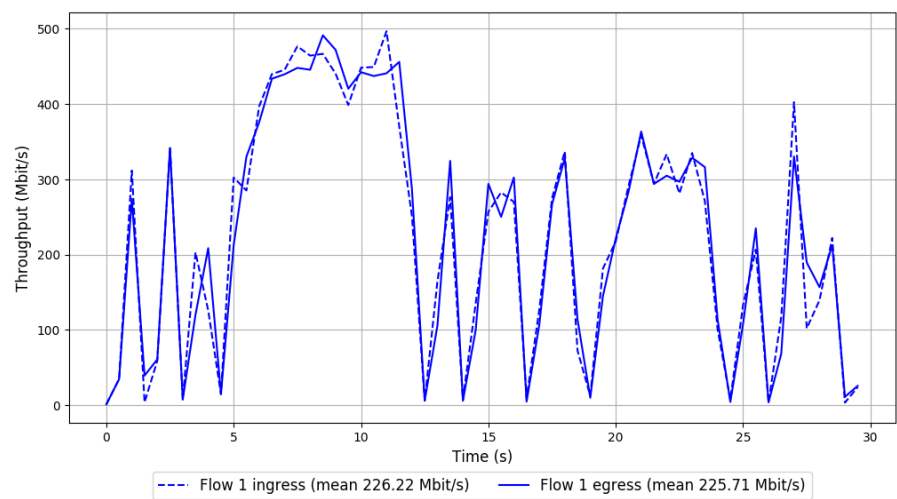
-- Flow 1:

Average throughput: 225.71 Mbit/s

95th percentile per-packet one-way delay: 131.315 ms

Loss rate: 0.20%

Run 10: Report of Verus — Data Link

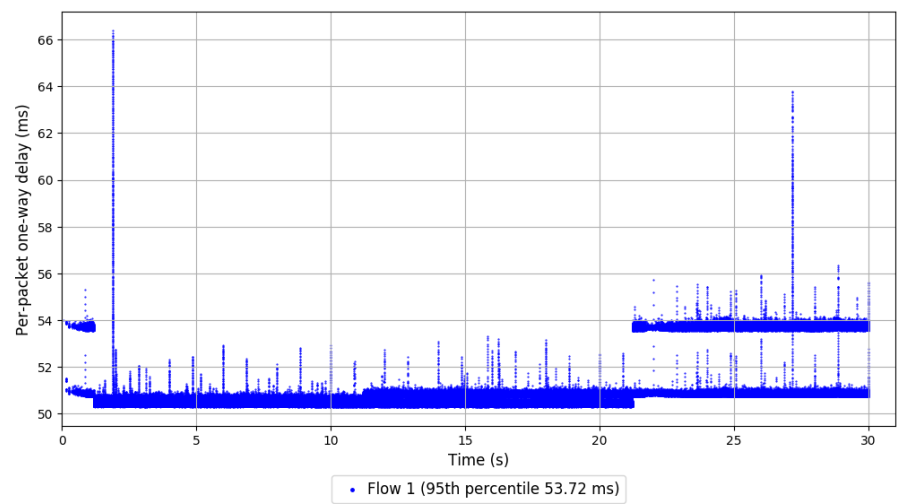
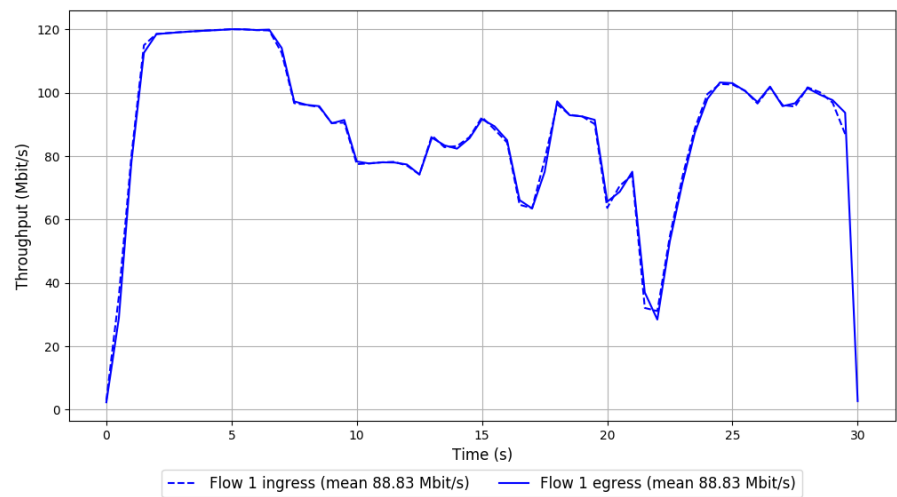


```
Run 1: Statistics of Copa

Start at: 2018-03-13 06:04:28
End at: 2018-03-13 06:04:58

# Below is generated by plot.py at 2018-03-13 11:09:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.83 Mbit/s
95th percentile per-packet one-way delay: 53.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.83 Mbit/s
95th percentile per-packet one-way delay: 53.721 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-13 06:18:50

End at: 2018-03-13 06:19:20

Below is generated by plot.py at 2018-03-13 11:09:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.78 Mbit/s

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

Loss rate: 0.00%

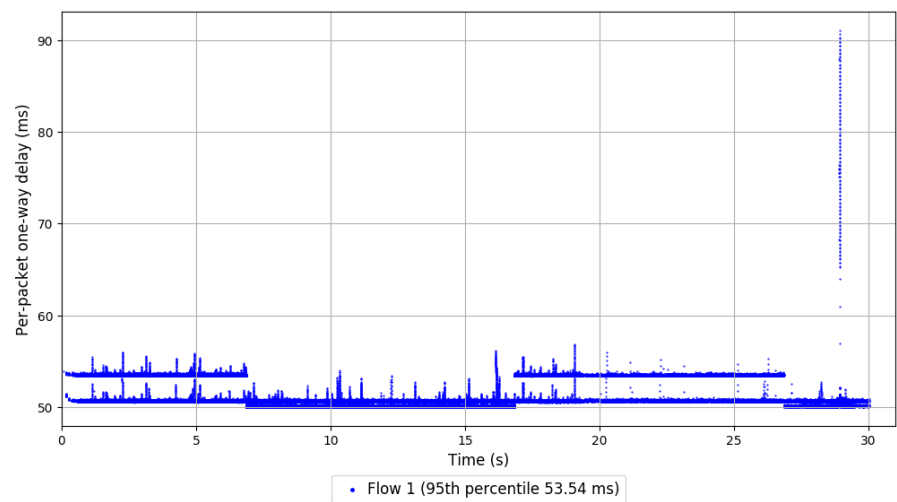
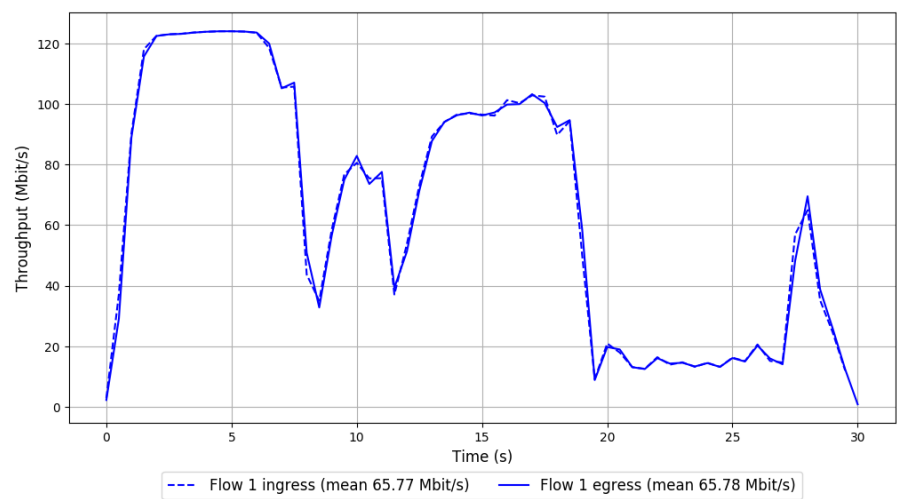
-- Flow 1:

Average throughput: 65.78 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-13 06:33:03

End at: 2018-03-13 06:33:33

Below is generated by plot.py at 2018-03-13 11:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.39 Mbit/s

95th percentile per-packet one-way delay: 237.808 ms

Loss rate: 33.46%

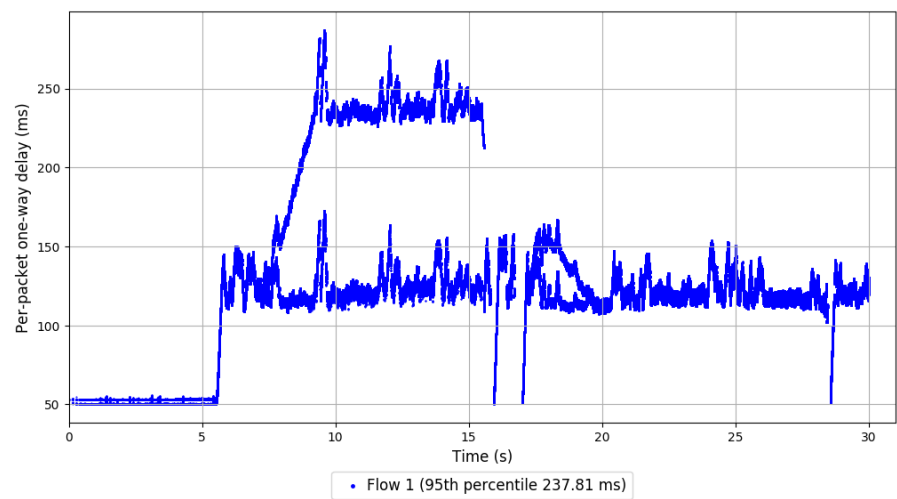
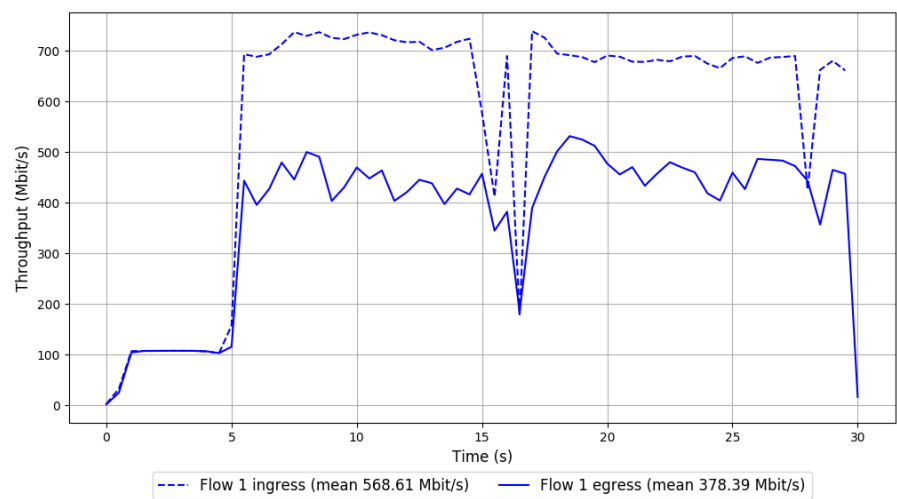
-- Flow 1:

Average throughput: 378.39 Mbit/s

95th percentile per-packet one-way delay: 237.808 ms

Loss rate: 33.46%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-13 06:47:53

End at: 2018-03-13 06:48:23

Below is generated by plot.py at 2018-03-13 11:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.85 Mbit/s

95th percentile per-packet one-way delay: 53.566 ms

Loss rate: 0.00%

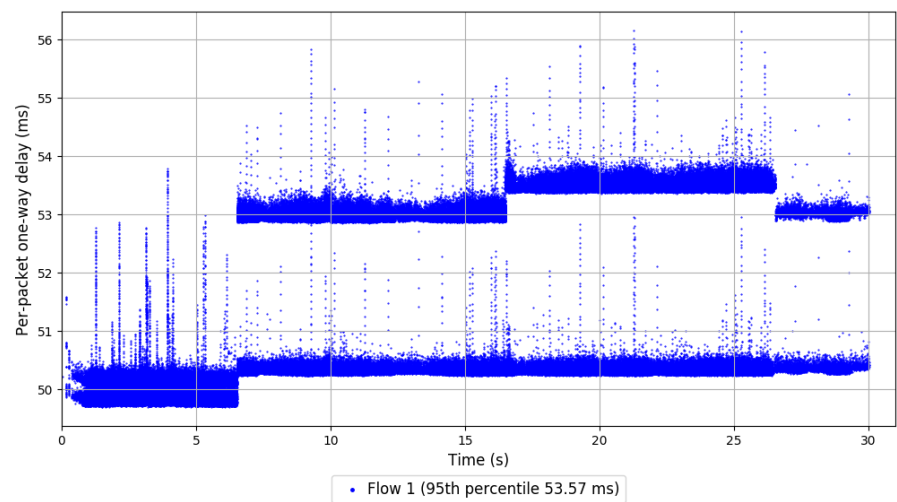
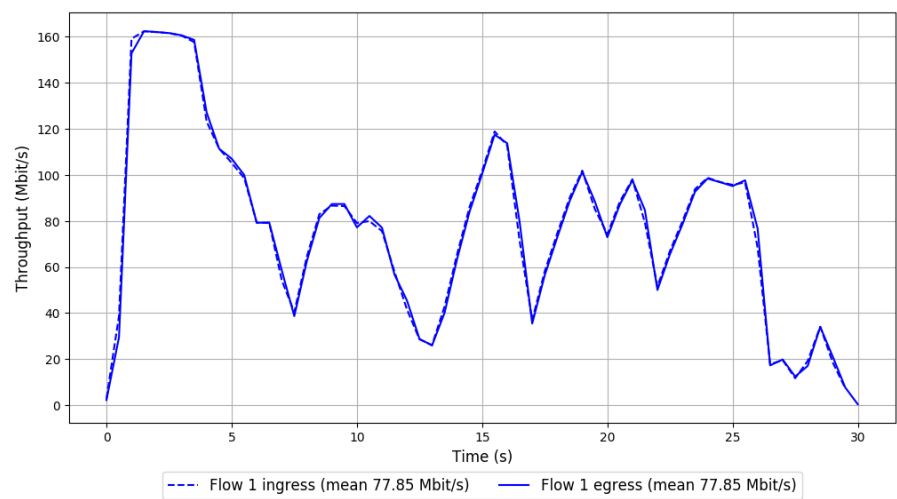
-- Flow 1:

Average throughput: 77.85 Mbit/s

95th percentile per-packet one-way delay: 53.566 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-13 07:02:13

End at: 2018-03-13 07:02:43

Below is generated by plot.py at 2018-03-13 11:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.00 Mbit/s

95th percentile per-packet one-way delay: 53.357 ms

Loss rate: 0.00%

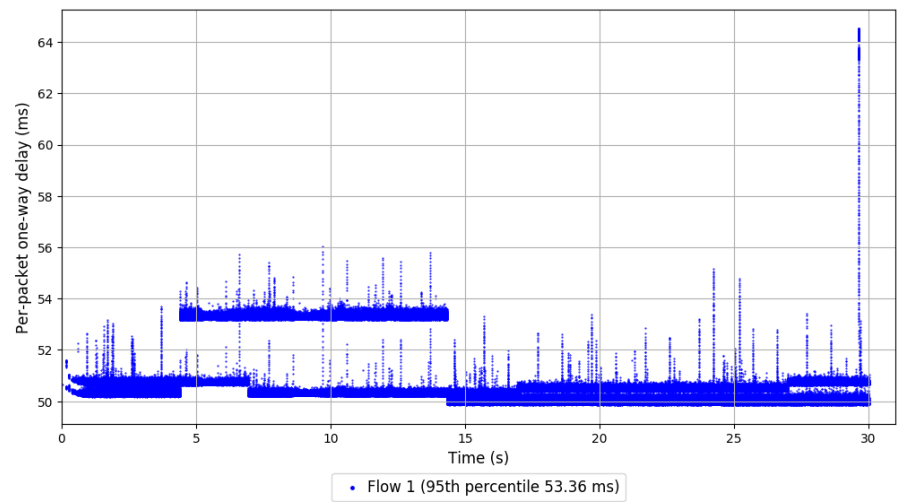
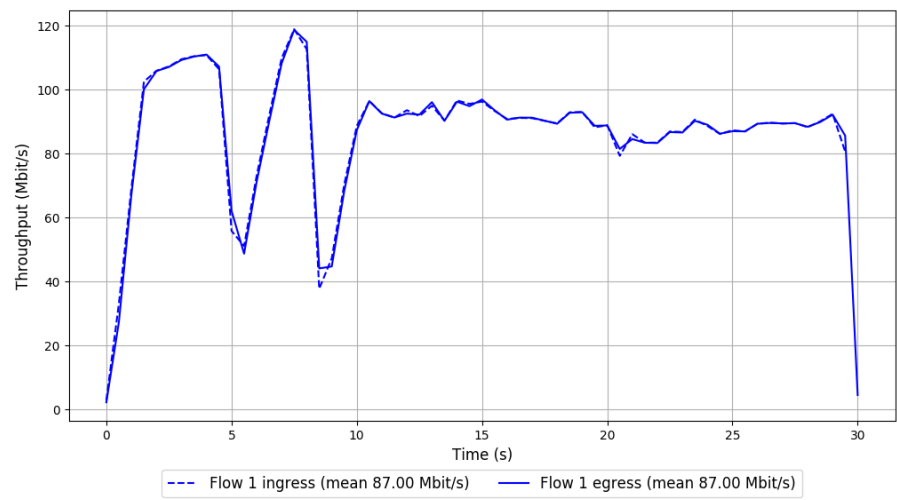
-- Flow 1:

Average throughput: 87.00 Mbit/s

95th percentile per-packet one-way delay: 53.357 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-13 07:16:48

End at: 2018-03-13 07:17:18

Below is generated by plot.py at 2018-03-13 11:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 53.329 ms

Loss rate: 0.00%

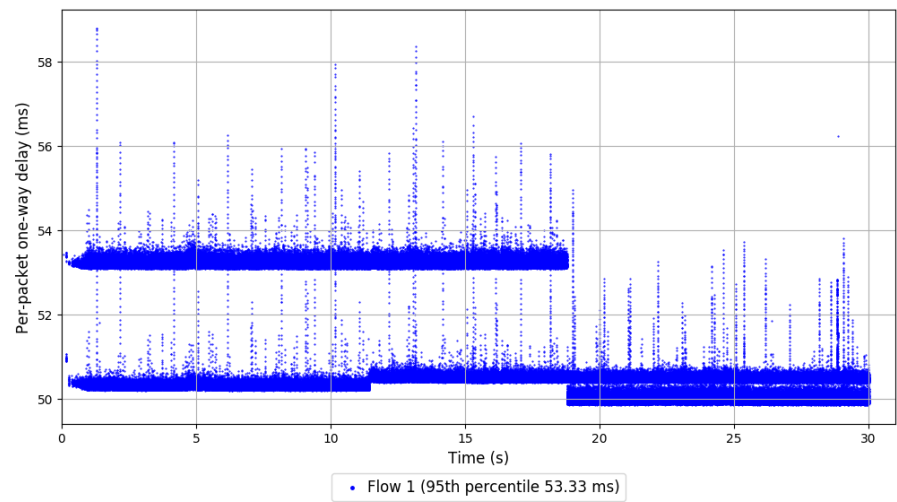
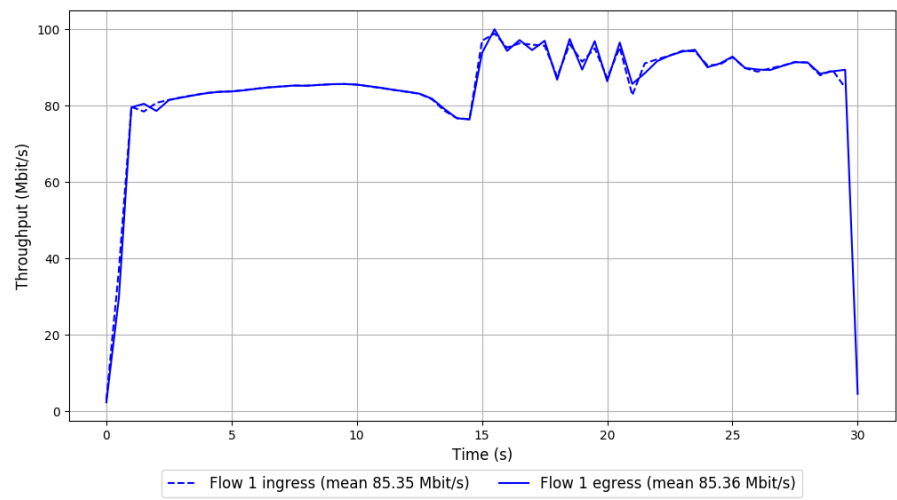
-- Flow 1:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 53.329 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-13 07:31:07

End at: 2018-03-13 07:31:37

Below is generated by plot.py at 2018-03-13 11:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.24 Mbit/s

95th percentile per-packet one-way delay: 50.641 ms

Loss rate: 0.00%

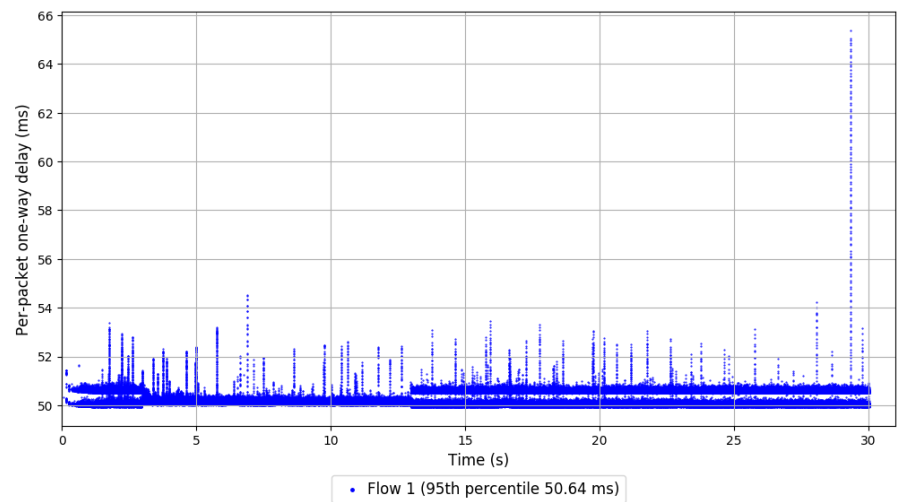
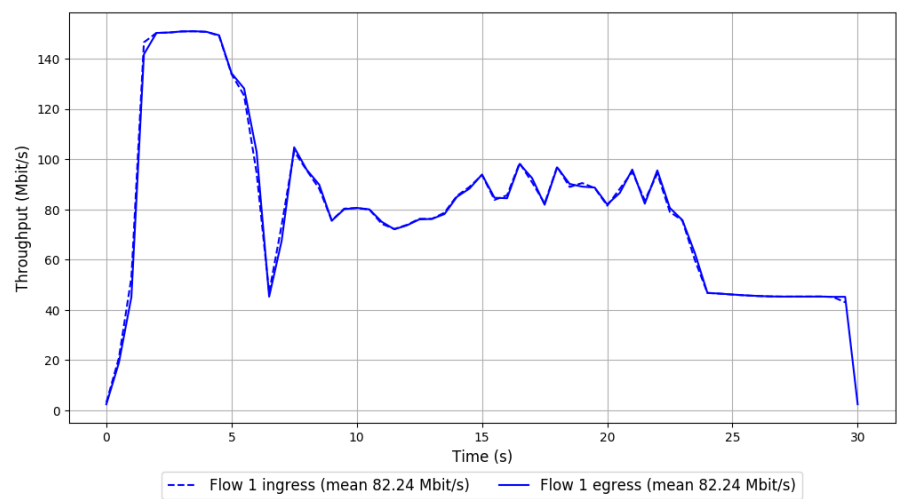
-- Flow 1:

Average throughput: 82.24 Mbit/s

95th percentile per-packet one-way delay: 50.641 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-13 07:45:21

End at: 2018-03-13 07:45:51

Below is generated by plot.py at 2018-03-13 11:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 53.052 ms

Loss rate: 0.00%

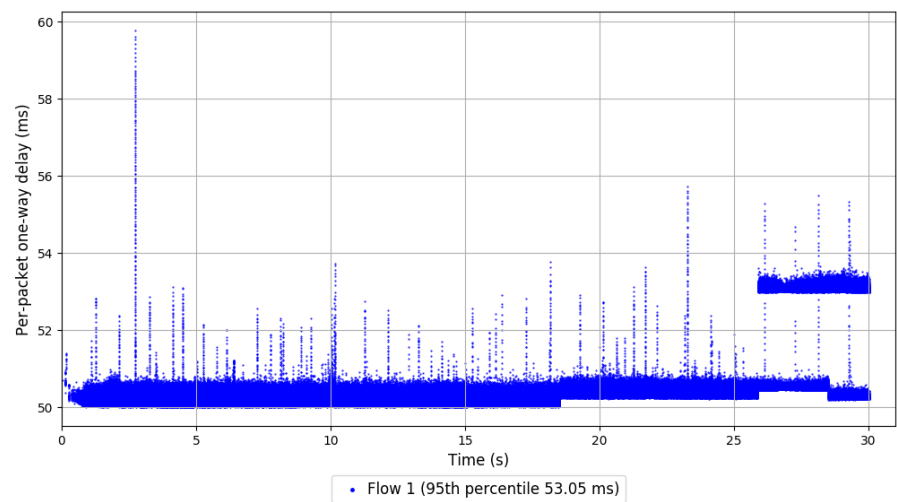
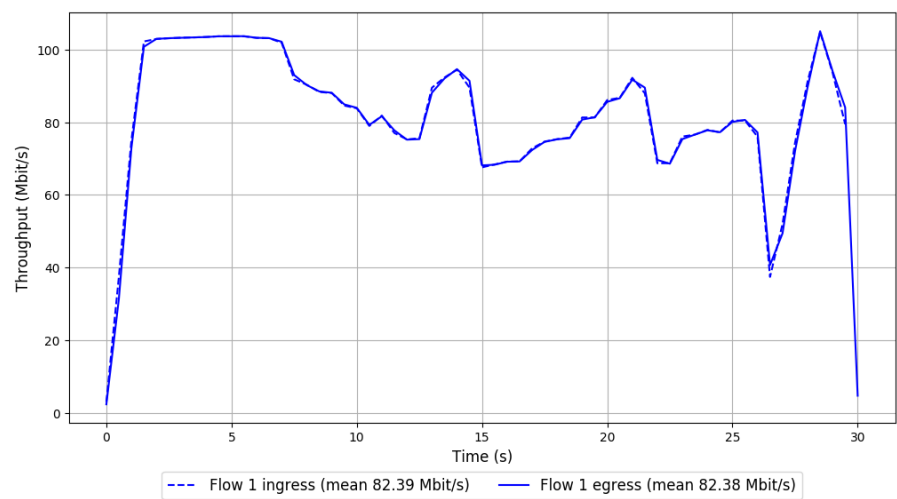
-- Flow 1:

Average throughput: 82.38 Mbit/s

95th percentile per-packet one-way delay: 53.052 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-13 07:59:32

End at: 2018-03-13 08:00:02

Below is generated by plot.py at 2018-03-13 11:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.41 Mbit/s

95th percentile per-packet one-way delay: 50.558 ms

Loss rate: 0.00%

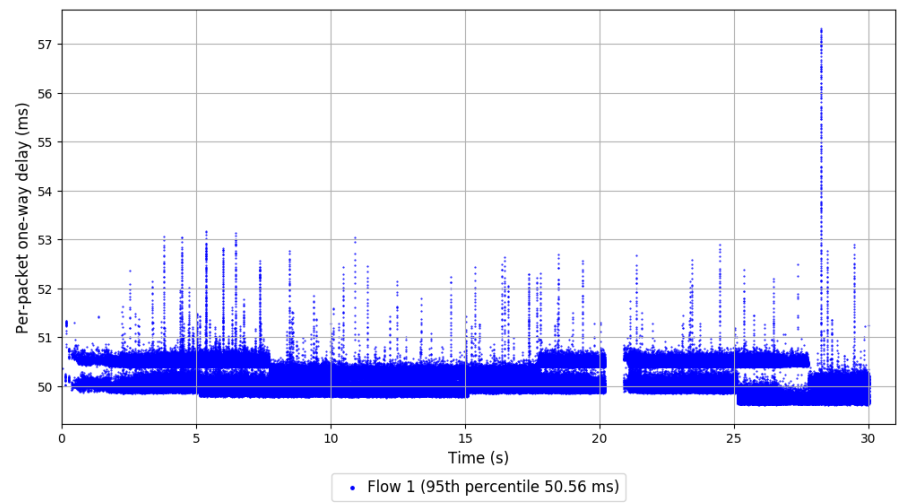
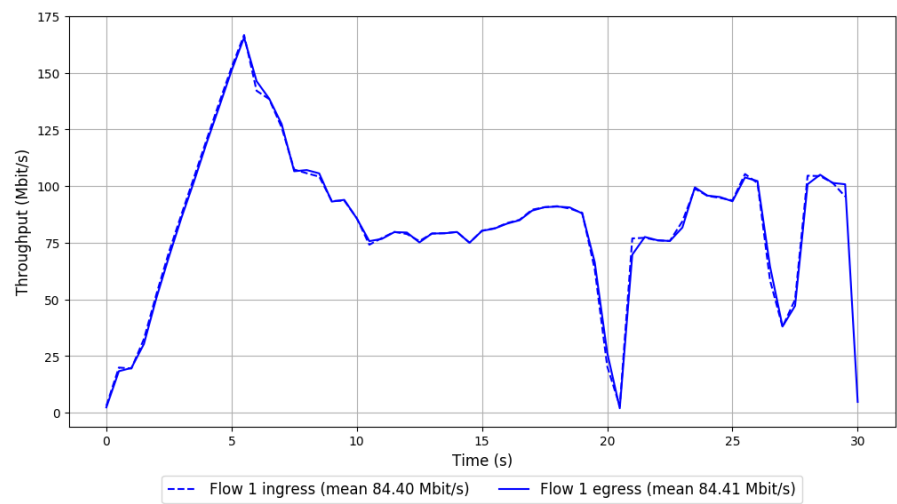
-- Flow 1:

Average throughput: 84.41 Mbit/s

95th percentile per-packet one-way delay: 50.558 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-13 08:13:36

End at: 2018-03-13 08:14:06

Below is generated by plot.py at 2018-03-13 11:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 52.883 ms

Loss rate: 0.00%

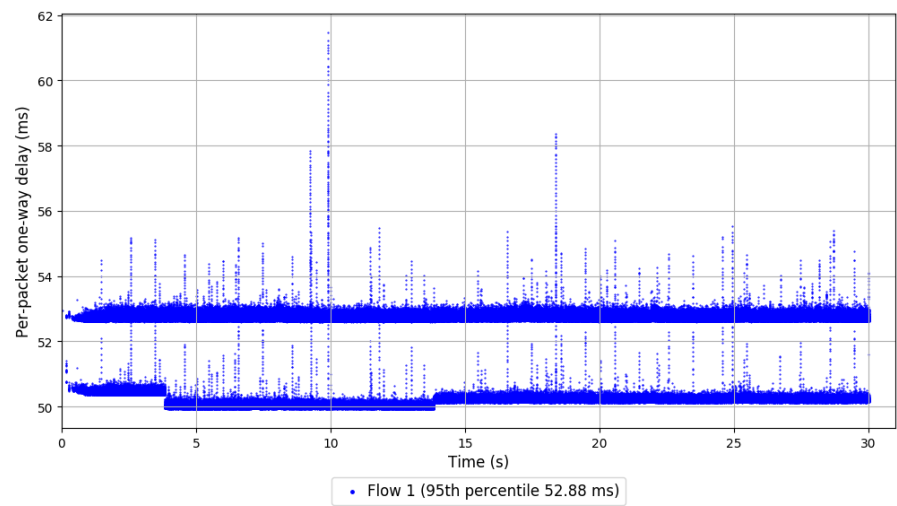
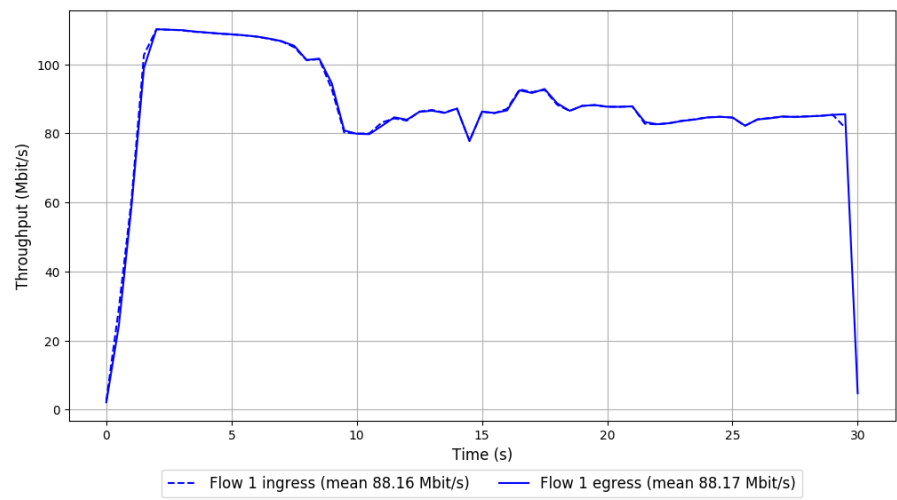
-- Flow 1:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 52.883 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

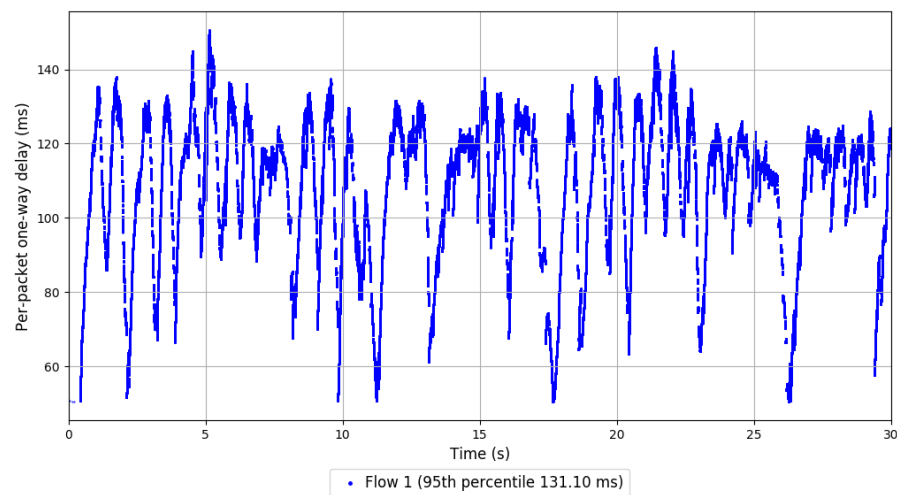
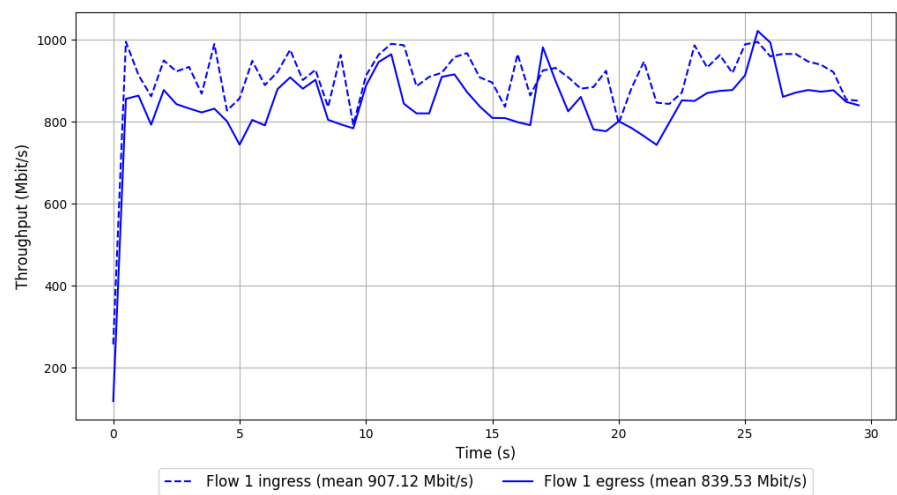


```
Run 1: Statistics of FillP

Start at: 2018-03-13 06:02:31
End at: 2018-03-13 06:03:01

# Below is generated by plot.py at 2018-03-13 11:31:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 839.53 Mbit/s
95th percentile per-packet one-way delay: 131.099 ms
Loss rate: 7.44%
-- Flow 1:
Average throughput: 839.53 Mbit/s
95th percentile per-packet one-way delay: 131.099 ms
Loss rate: 7.44%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-13 06:17:07

End at: 2018-03-13 06:17:37

Below is generated by plot.py at 2018-03-13 11:31:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.77 Mbit/s

95th percentile per-packet one-way delay: 139.124 ms

Loss rate: 9.53%

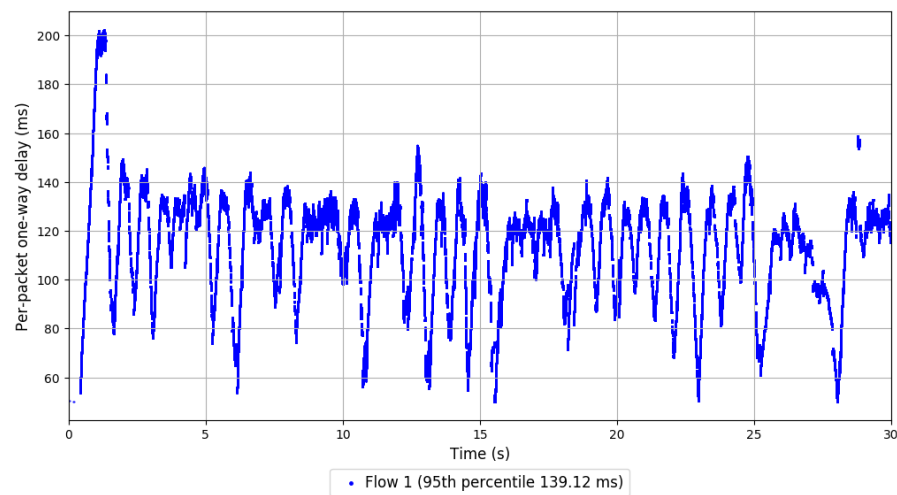
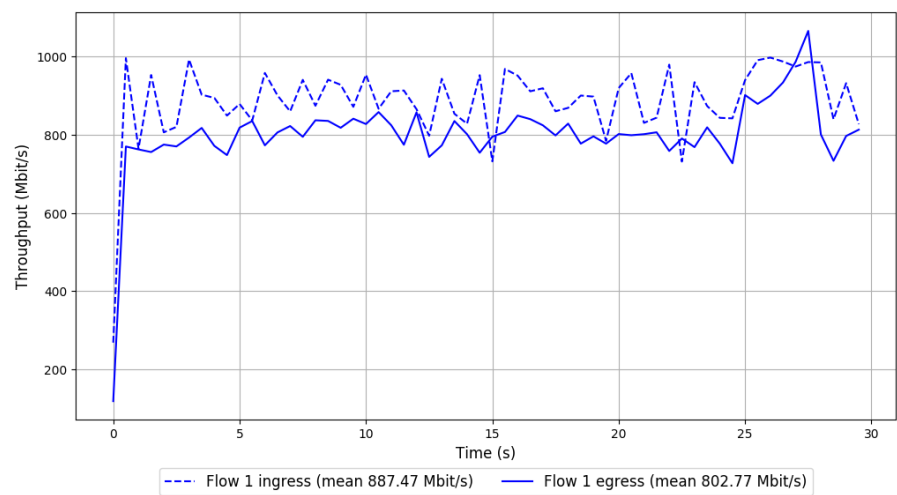
-- Flow 1:

Average throughput: 802.77 Mbit/s

95th percentile per-packet one-way delay: 139.124 ms

Loss rate: 9.53%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-13 06:31:14

End at: 2018-03-13 06:31:44

Below is generated by plot.py at 2018-03-13 11:32:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 878.84 Mbit/s

95th percentile per-packet one-way delay: 126.943 ms

Loss rate: 6.51%

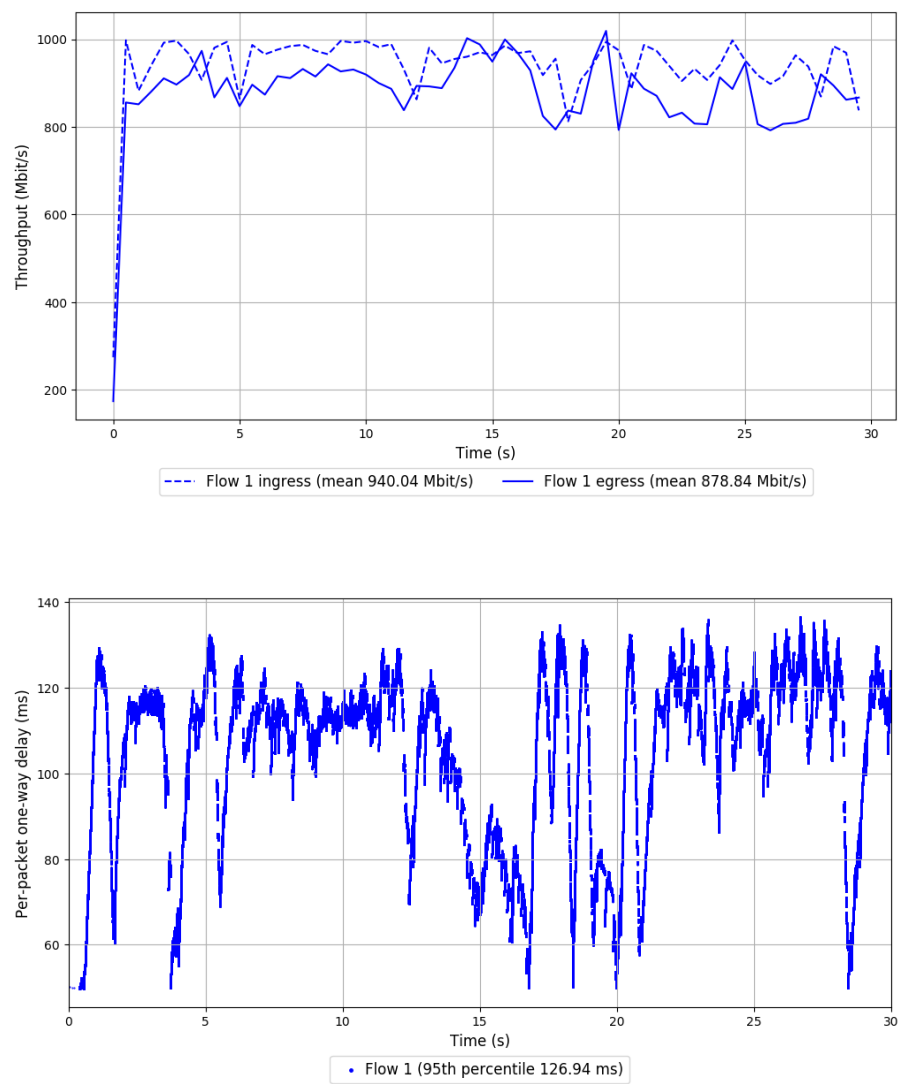
-- Flow 1:

Average throughput: 878.84 Mbit/s

95th percentile per-packet one-way delay: 126.943 ms

Loss rate: 6.51%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-13 06:45:51

End at: 2018-03-13 06:46:21

Below is generated by plot.py at 2018-03-13 11:32:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 799.08 Mbit/s

95th percentile per-packet one-way delay: 135.789 ms

Loss rate: 7.14%

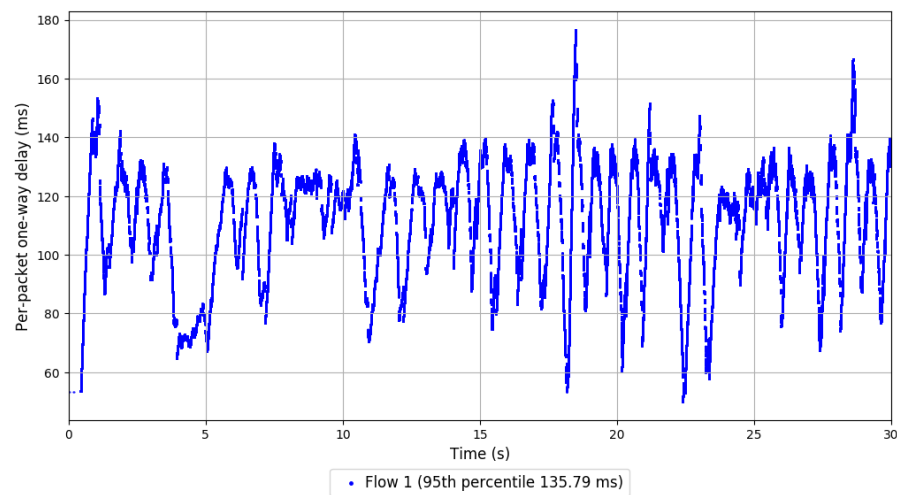
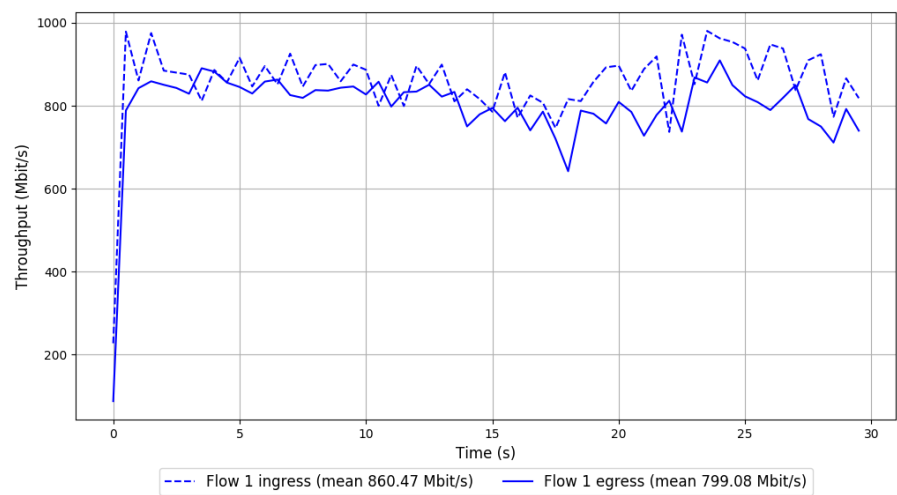
-- Flow 1:

Average throughput: 799.08 Mbit/s

95th percentile per-packet one-way delay: 135.789 ms

Loss rate: 7.14%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-13 07:00:24

End at: 2018-03-13 07:00:54

Below is generated by plot.py at 2018-03-13 11:32:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 814.19 Mbit/s

95th percentile per-packet one-way delay: 133.850 ms

Loss rate: 9.52%

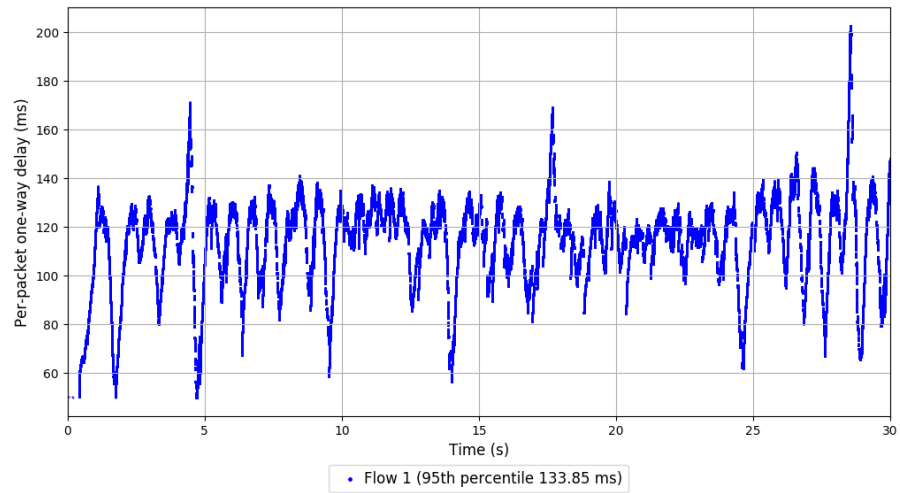
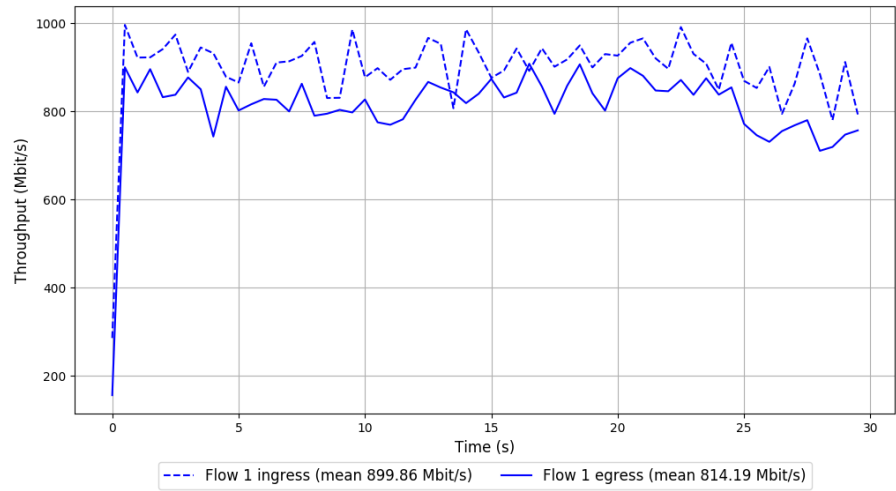
-- Flow 1:

Average throughput: 814.19 Mbit/s

95th percentile per-packet one-way delay: 133.850 ms

Loss rate: 9.52%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-13 07:14:42

End at: 2018-03-13 07:15:12

Below is generated by plot.py at 2018-03-13 11:32:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 808.12 Mbit/s

95th percentile per-packet one-way delay: 138.644 ms

Loss rate: 8.20%

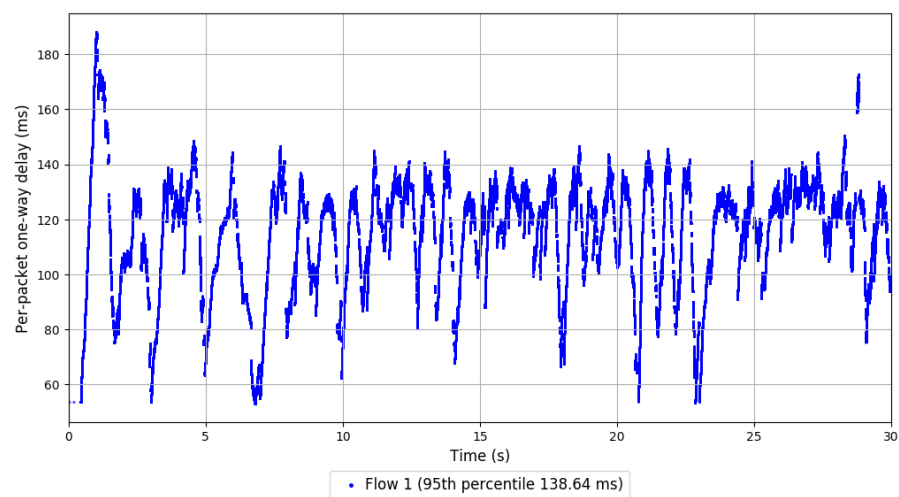
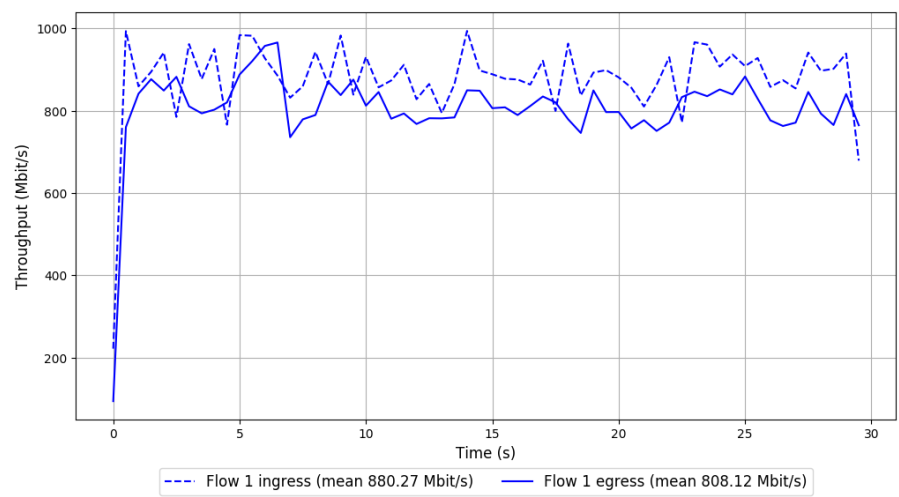
-- Flow 1:

Average throughput: 808.12 Mbit/s

95th percentile per-packet one-way delay: 138.644 ms

Loss rate: 8.20%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-13 07:29:22

End at: 2018-03-13 07:29:52

Below is generated by plot.py at 2018-03-13 11:33:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 811.63 Mbit/s

95th percentile per-packet one-way delay: 138.055 ms

Loss rate: 10.06%

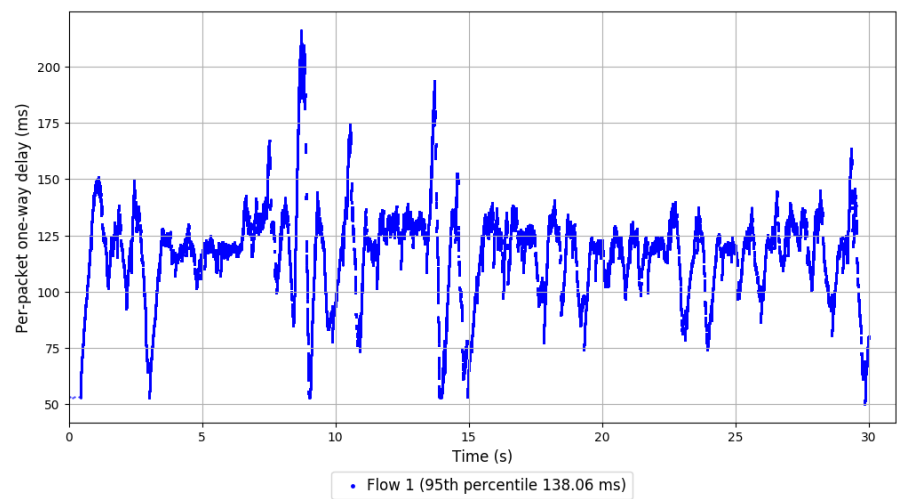
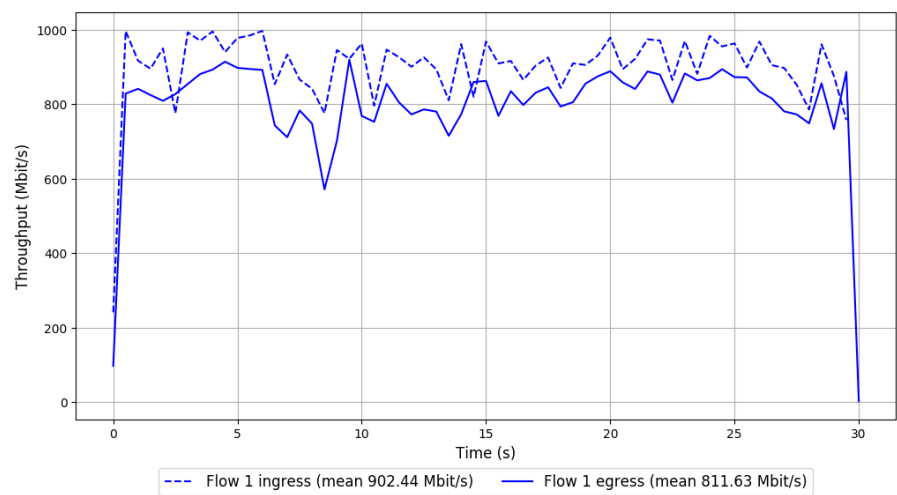
-- Flow 1:

Average throughput: 811.63 Mbit/s

95th percentile per-packet one-way delay: 138.055 ms

Loss rate: 10.06%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-13 07:43:34

End at: 2018-03-13 07:44:04

Below is generated by plot.py at 2018-03-13 11:46:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 864.29 Mbit/s

95th percentile per-packet one-way delay: 149.478 ms

Loss rate: 7.00%

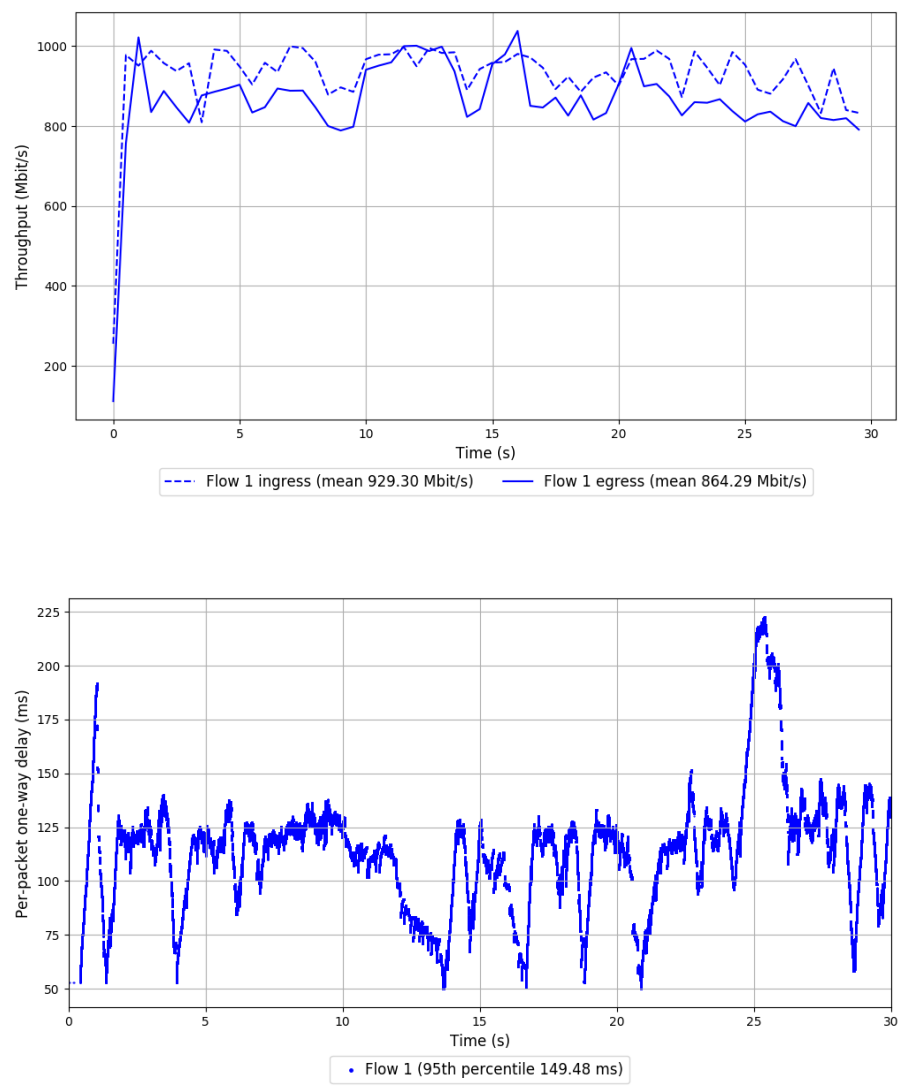
-- Flow 1:

Average throughput: 864.29 Mbit/s

95th percentile per-packet one-way delay: 149.478 ms

Loss rate: 7.00%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-13 07:57:41

End at: 2018-03-13 07:58:11

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 848.34 Mbit/s

95th percentile per-packet one-way delay: 128.498 ms

Loss rate: 8.02%

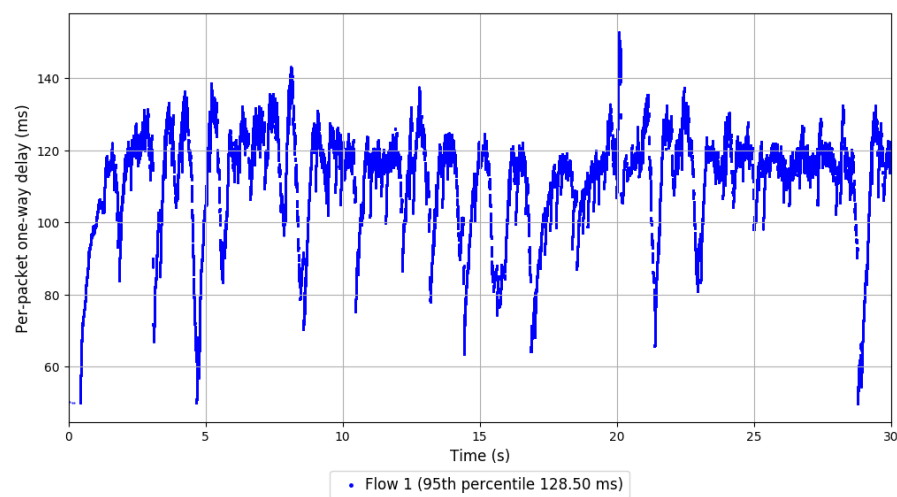
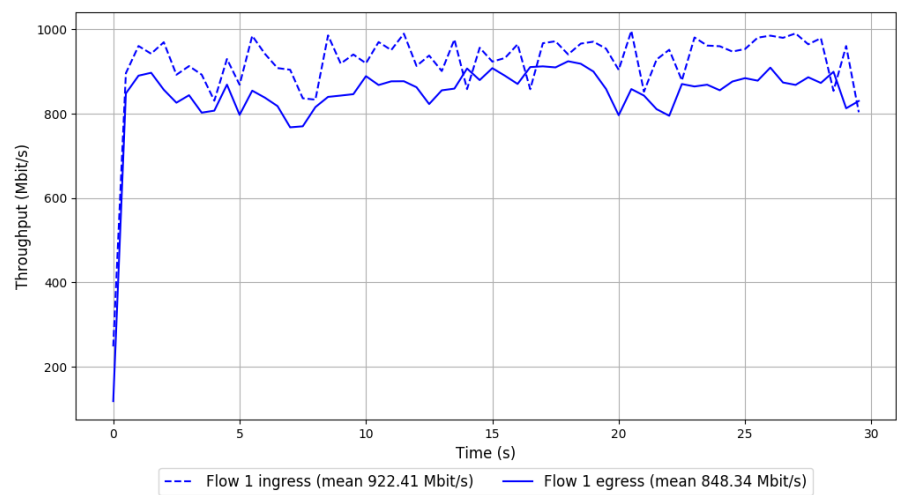
-- Flow 1:

Average throughput: 848.34 Mbit/s

95th percentile per-packet one-way delay: 128.498 ms

Loss rate: 8.02%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-13 08:11:53

End at: 2018-03-13 08:12:23

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 778.78 Mbit/s

95th percentile per-packet one-way delay: 135.894 ms

Loss rate: 11.14%

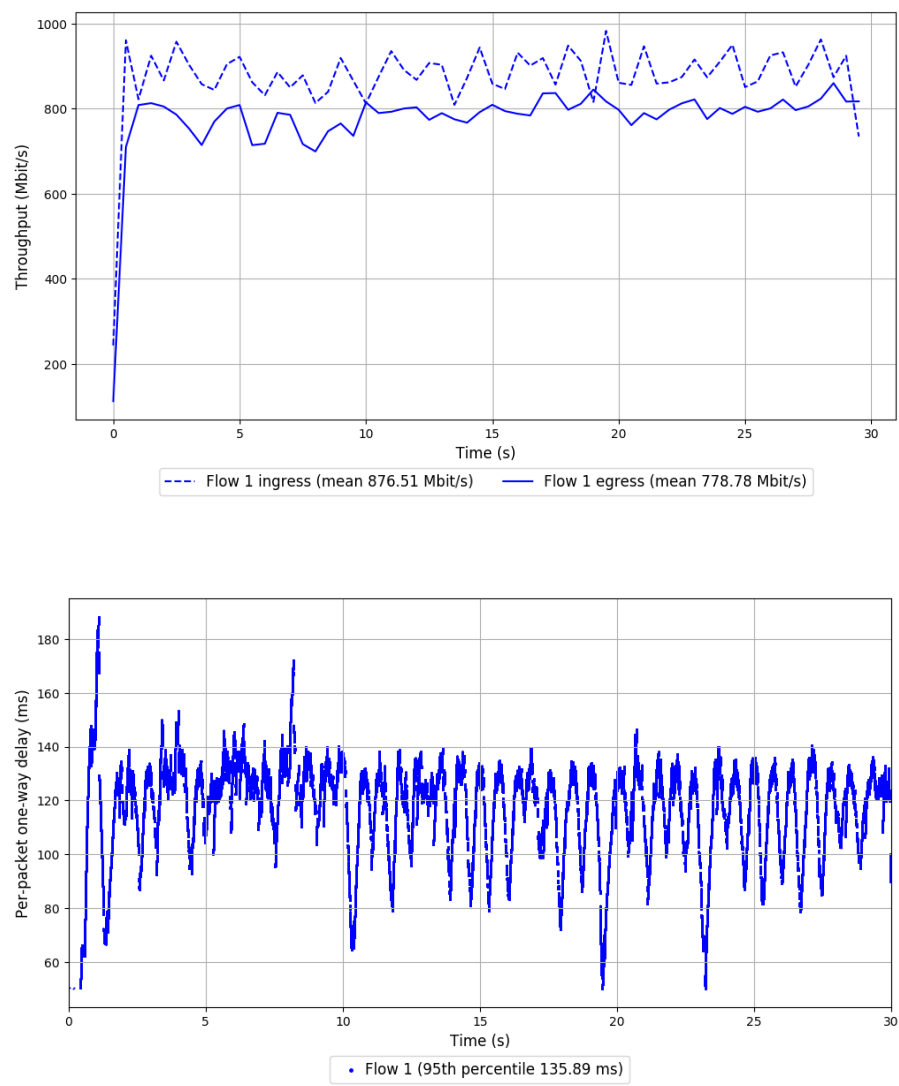
-- Flow 1:

Average throughput: 778.78 Mbit/s

95th percentile per-packet one-way delay: 135.894 ms

Loss rate: 11.14%

Run 10: Report of FillP — Data Link

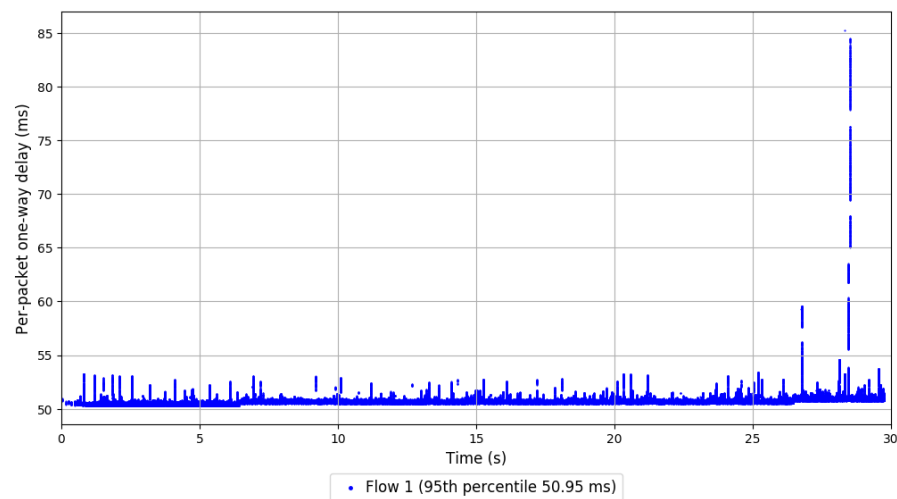
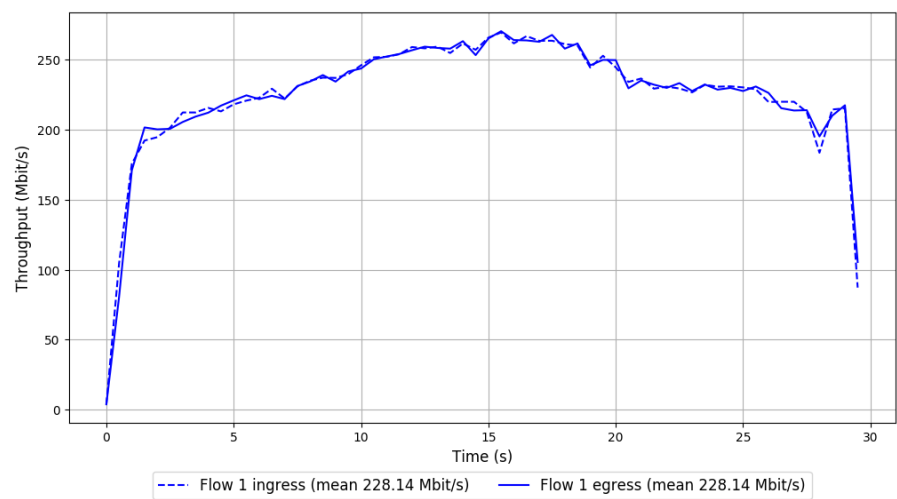


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-13 06:05:13
End at: 2018-03-13 06:05:43

# Below is generated by plot.py at 2018-03-13 11:51:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.14 Mbit/s
95th percentile per-packet one-way delay: 50.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.14 Mbit/s
95th percentile per-packet one-way delay: 50.948 ms
Loss rate: 0.00%
```

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

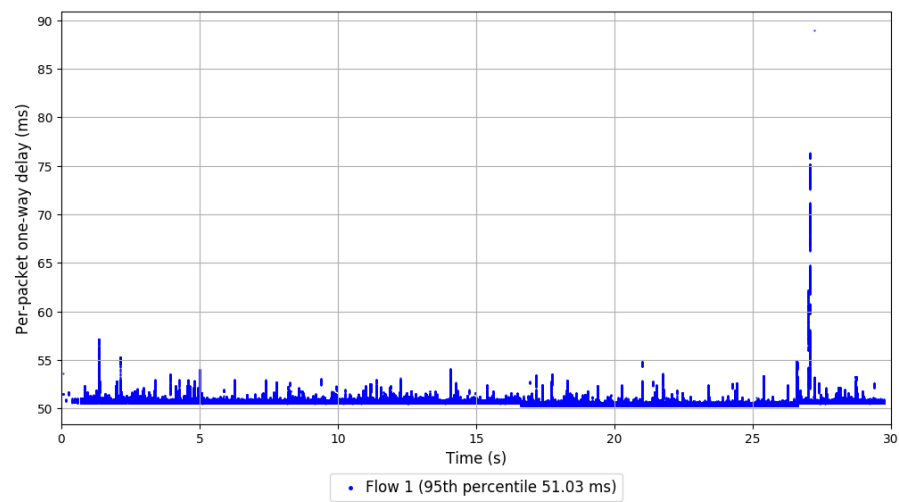
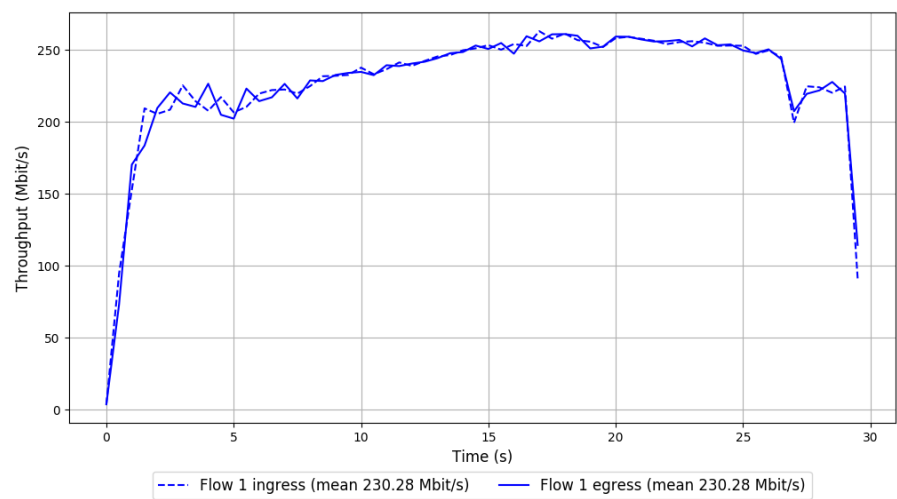


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-13 06:19:33
End at: 2018-03-13 06:20:03

# Below is generated by plot.py at 2018-03-13 11:51:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.28 Mbit/s
95th percentile per-packet one-way delay: 51.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.28 Mbit/s
95th percentile per-packet one-way delay: 51.030 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-13 06:34:07

End at: 2018-03-13 06:34:37

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.41 Mbit/s

95th percentile per-packet one-way delay: 50.569 ms

Loss rate: 0.00%

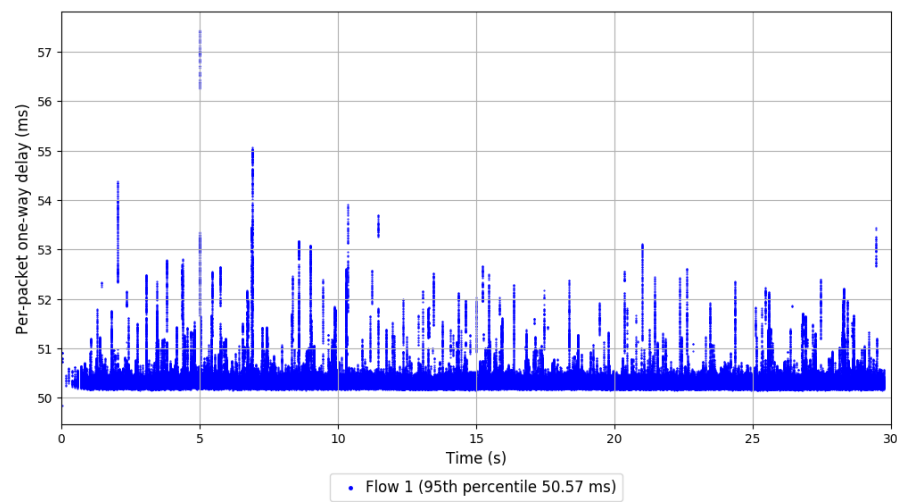
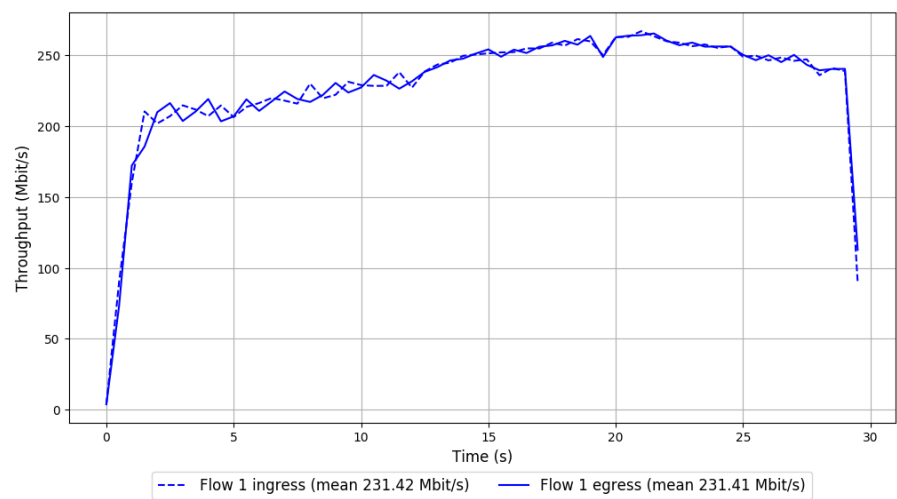
-- Flow 1:

Average throughput: 231.41 Mbit/s

95th percentile per-packet one-way delay: 50.569 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-13 06:48:37

End at: 2018-03-13 06:49:07

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.86 Mbit/s

95th percentile per-packet one-way delay: 50.602 ms

Loss rate: 0.00%

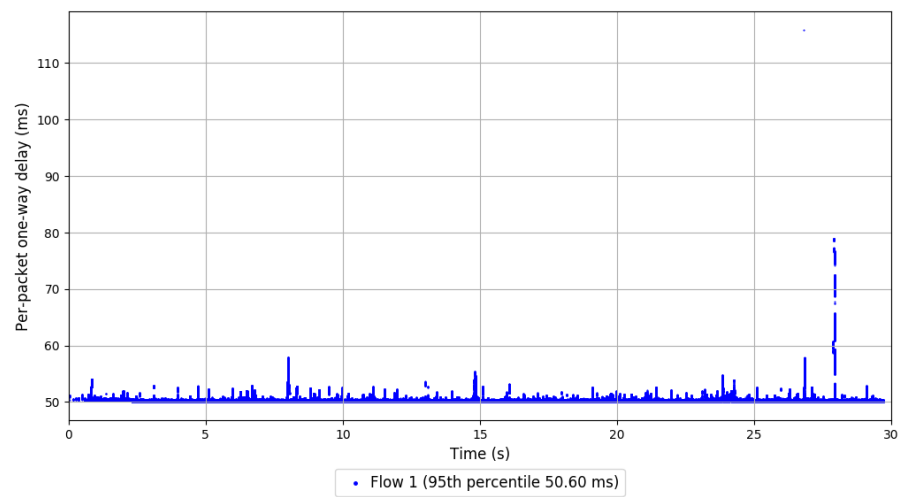
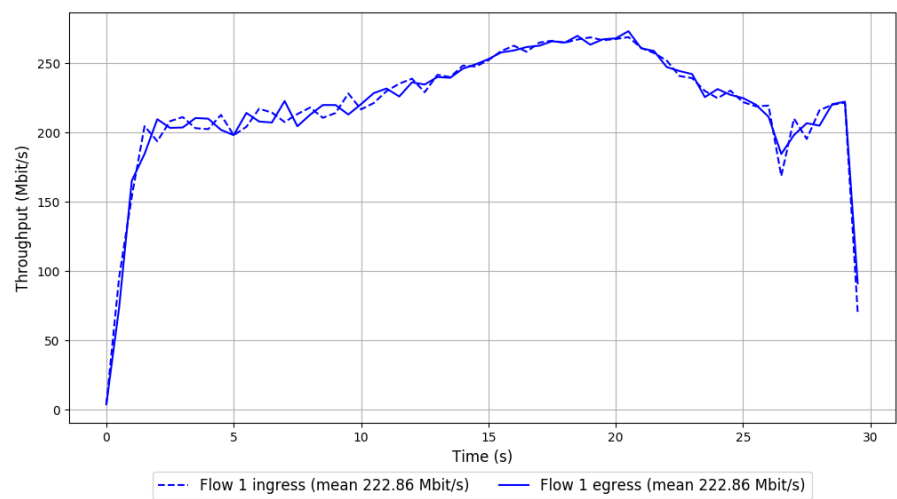
-- Flow 1:

Average throughput: 222.86 Mbit/s

95th percentile per-packet one-way delay: 50.602 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-13 07:02:57

End at: 2018-03-13 07:03:27

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.88 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.00%

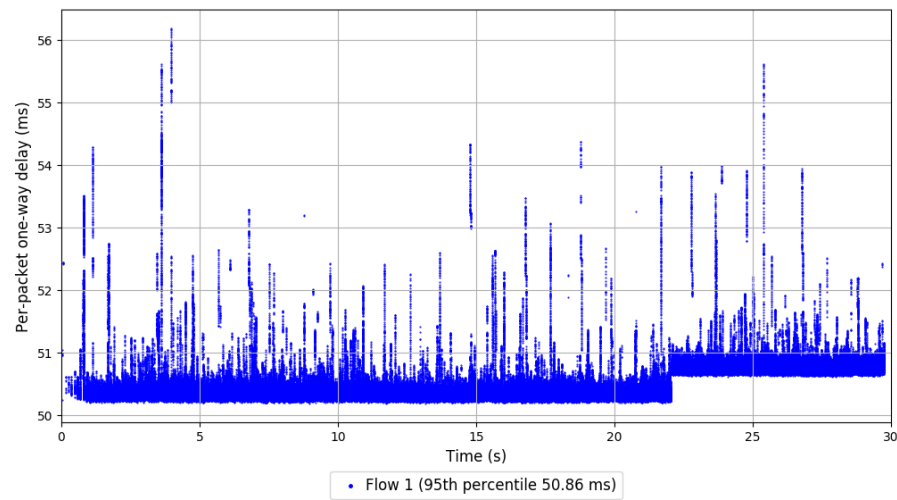
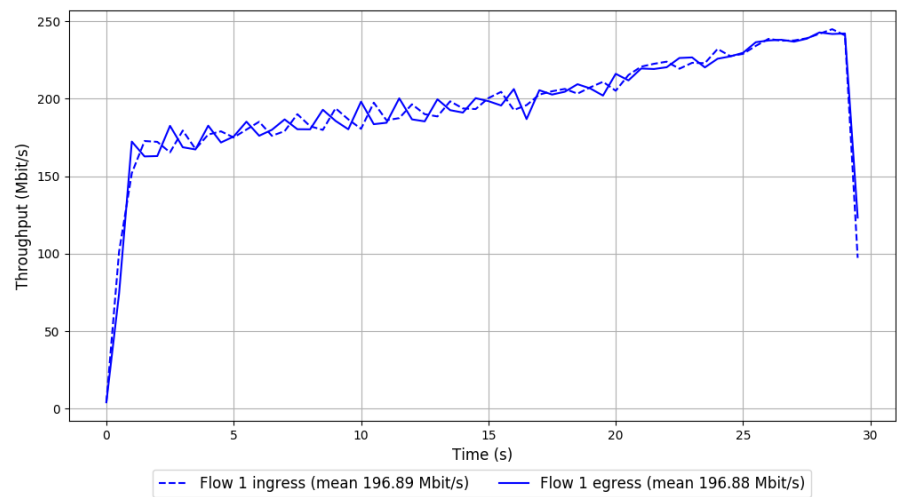
-- Flow 1:

Average throughput: 196.88 Mbit/s

95th percentile per-packet one-way delay: 50.864 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-13 07:17:33

End at: 2018-03-13 07:18:03

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.11 Mbit/s

95th percentile per-packet one-way delay: 51.247 ms

Loss rate: 0.00%

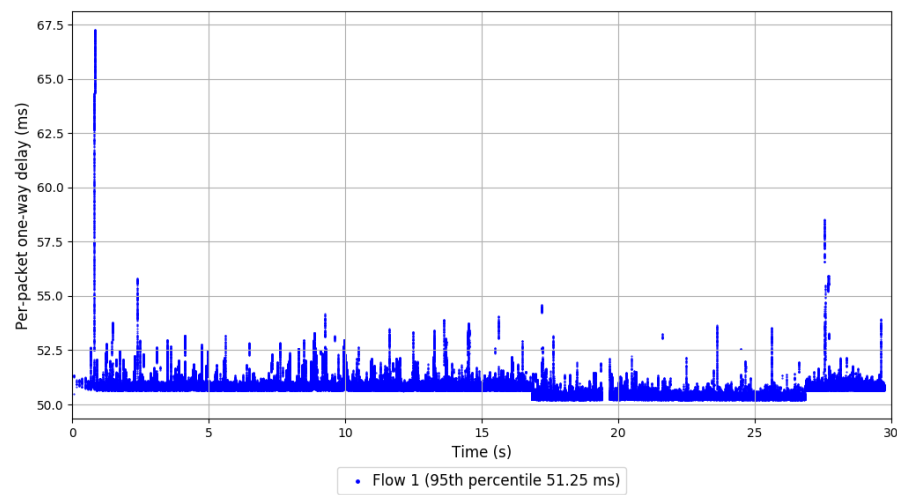
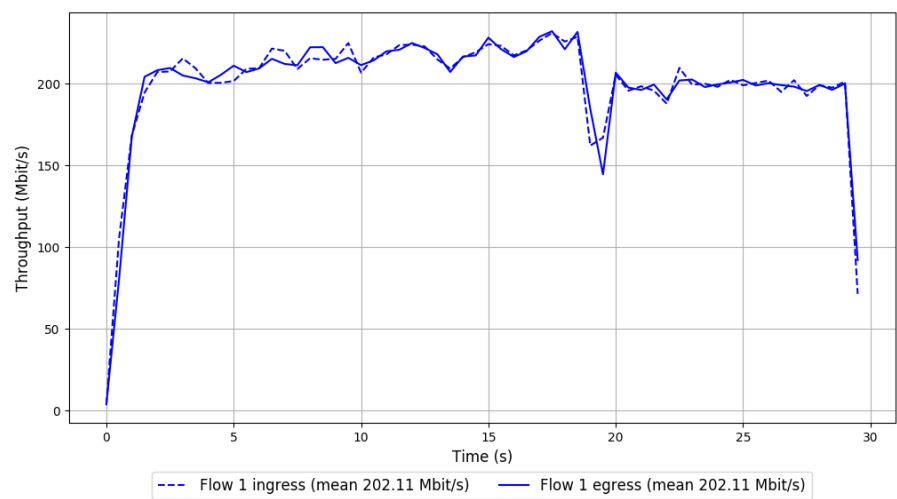
-- Flow 1:

Average throughput: 202.11 Mbit/s

95th percentile per-packet one-way delay: 51.247 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-13 07:31:51

End at: 2018-03-13 07:32:21

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.95 Mbit/s

95th percentile per-packet one-way delay: 51.375 ms

Loss rate: 0.00%

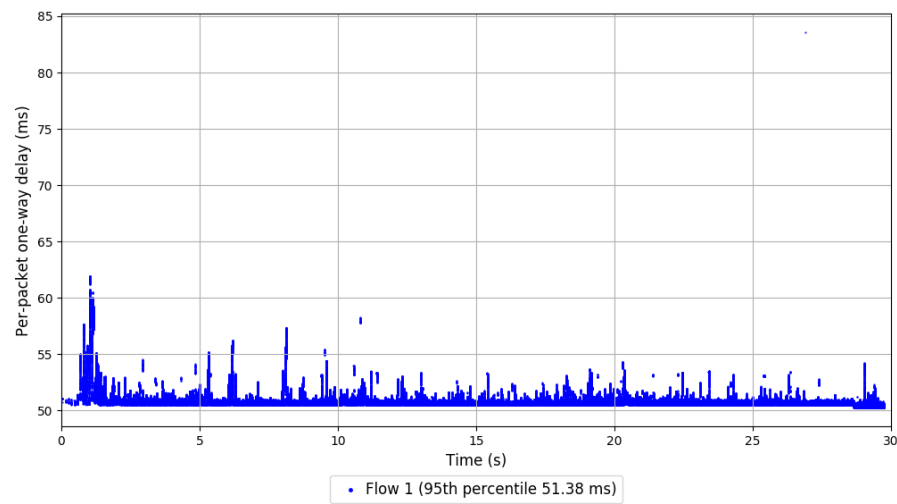
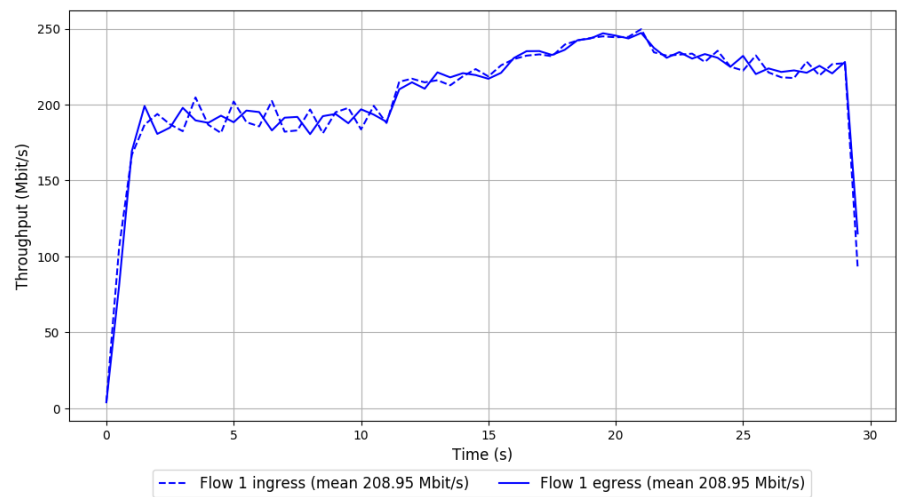
-- Flow 1:

Average throughput: 208.95 Mbit/s

95th percentile per-packet one-way delay: 51.375 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-13 07:46:05

End at: 2018-03-13 07:46:35

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.93 Mbit/s

95th percentile per-packet one-way delay: 50.482 ms

Loss rate: 0.00%

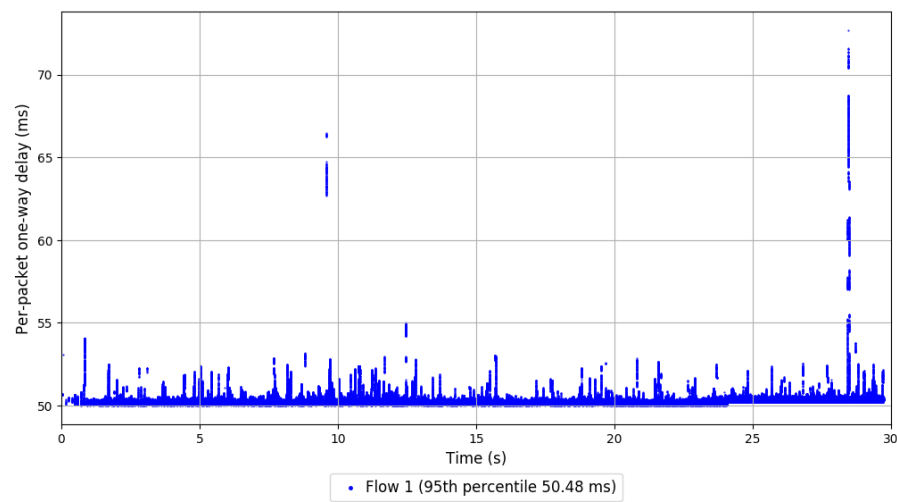
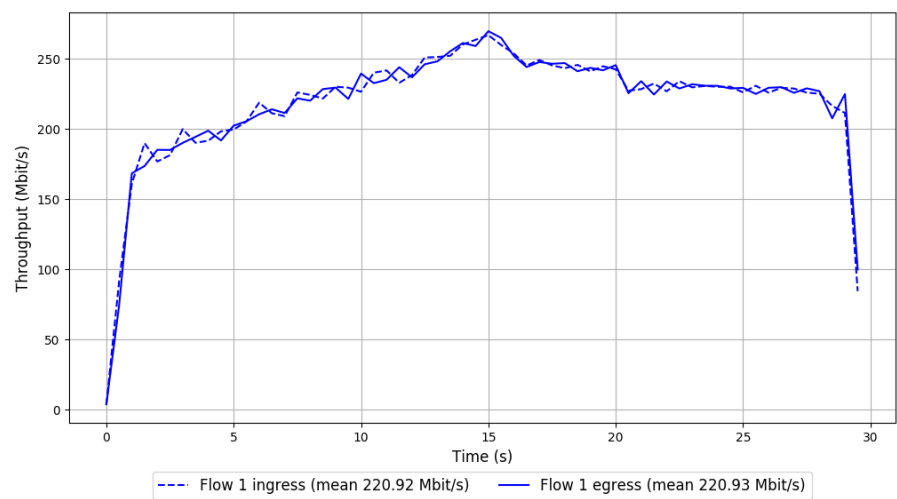
-- Flow 1:

Average throughput: 220.93 Mbit/s

95th percentile per-packet one-way delay: 50.482 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-13 08:00:16

End at: 2018-03-13 08:00:46

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.12 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 0.00%

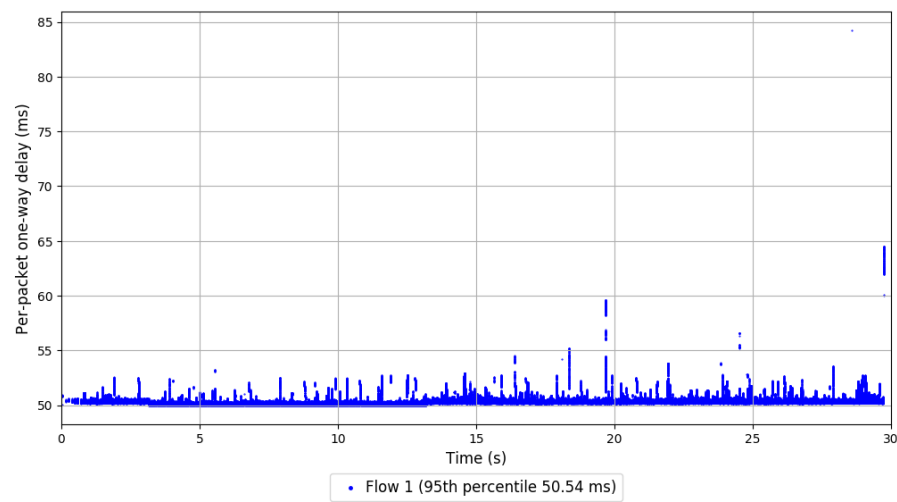
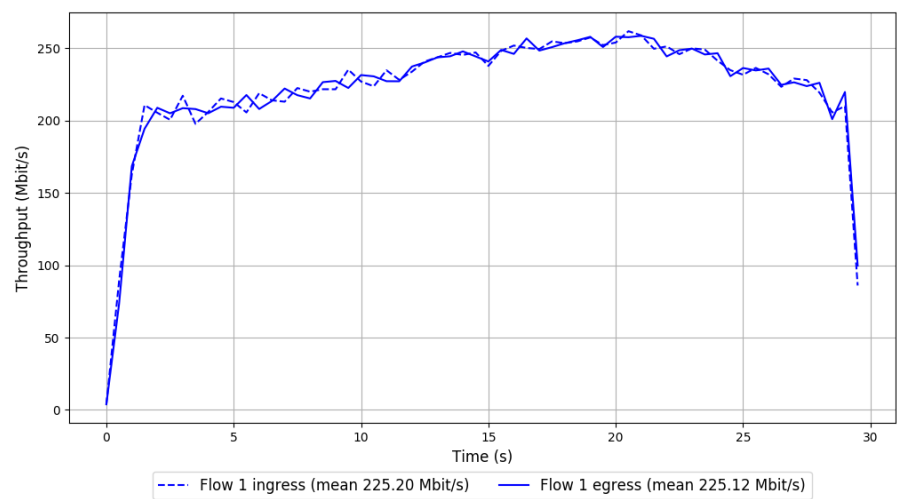
-- Flow 1:

Average throughput: 225.12 Mbit/s

95th percentile per-packet one-way delay: 50.540 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-13 08:14:21

End at: 2018-03-13 08:14:51

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.04 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.00%

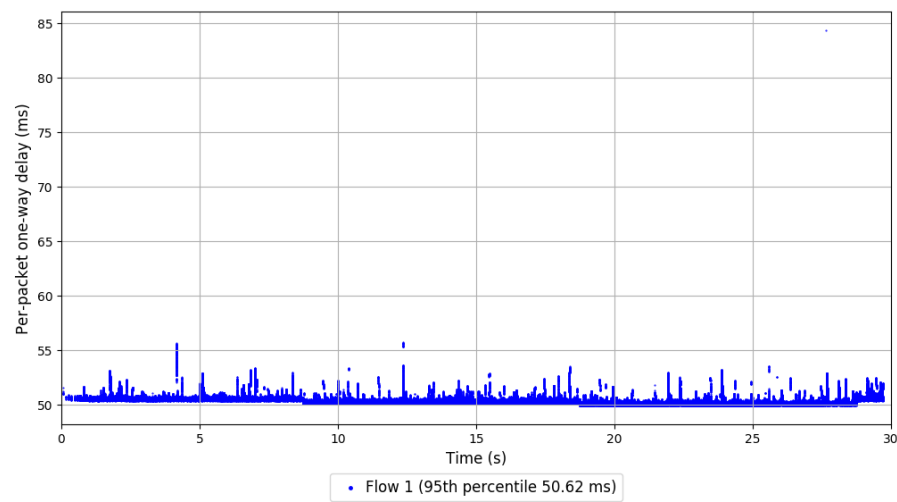
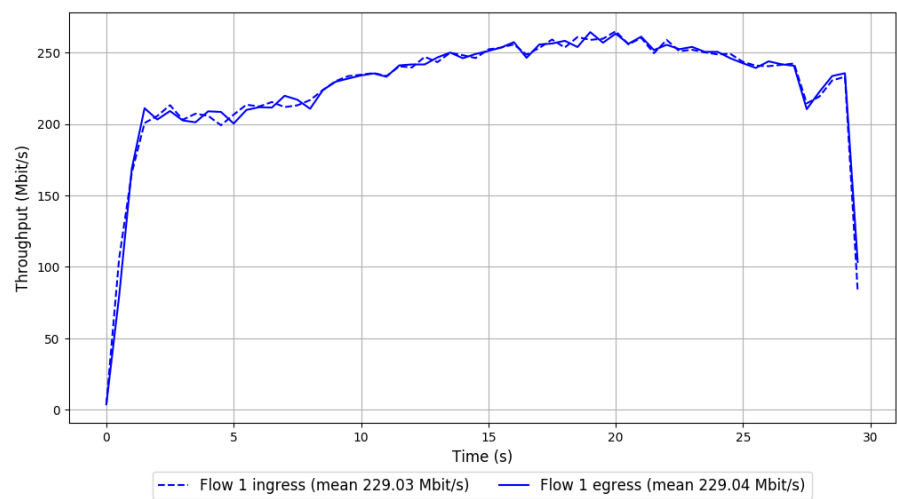
-- Flow 1:

Average throughput: 229.04 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-13 05:58:42

End at: 2018-03-13 05:59:12

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.86 Mbit/s

95th percentile per-packet one-way delay: 90.069 ms

Loss rate: 0.00%

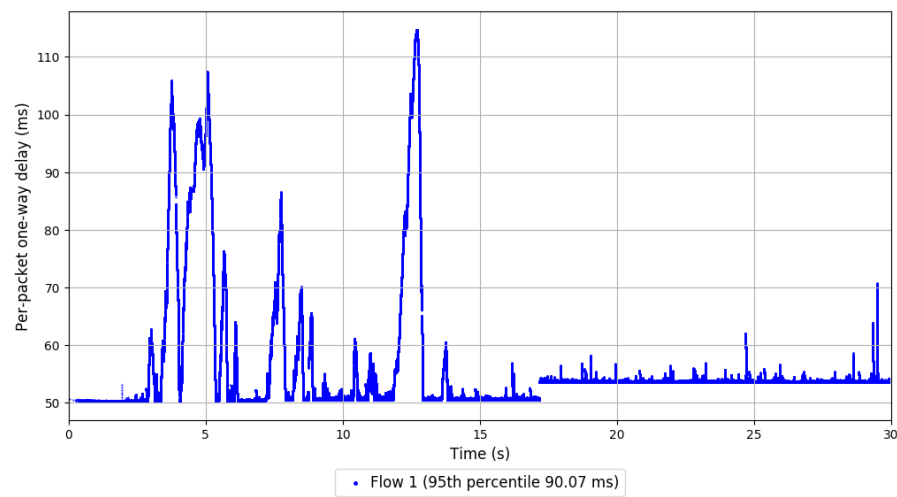
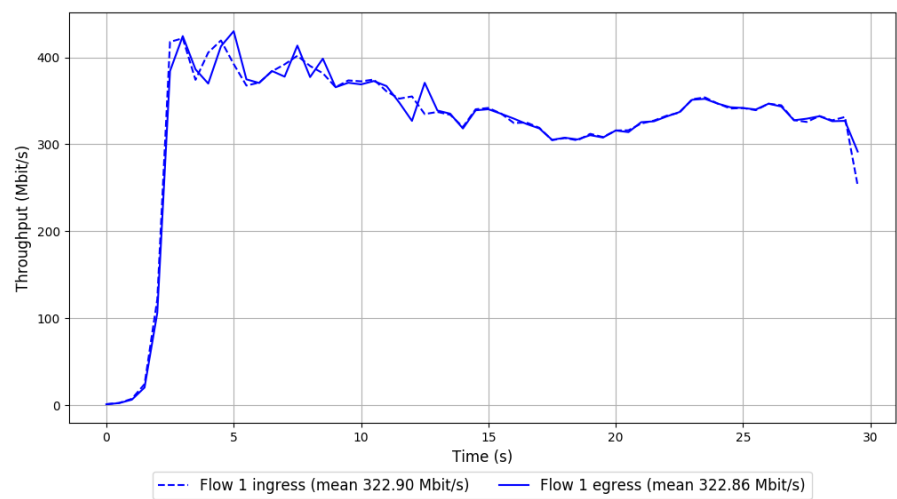
-- Flow 1:

Average throughput: 322.86 Mbit/s

95th percentile per-packet one-way delay: 90.069 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

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

End at: 2018-03-13 06:13:47

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.71 Mbit/s

95th percentile per-packet one-way delay: 54.794 ms

Loss rate: 0.00%

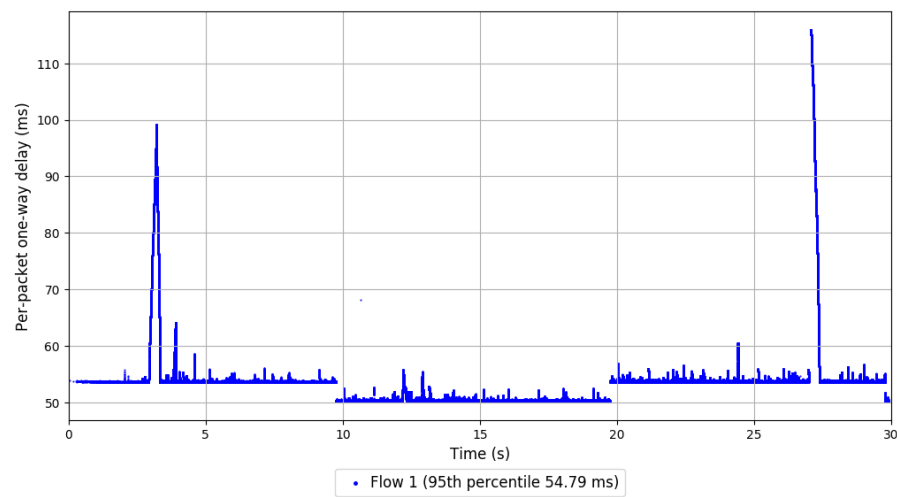
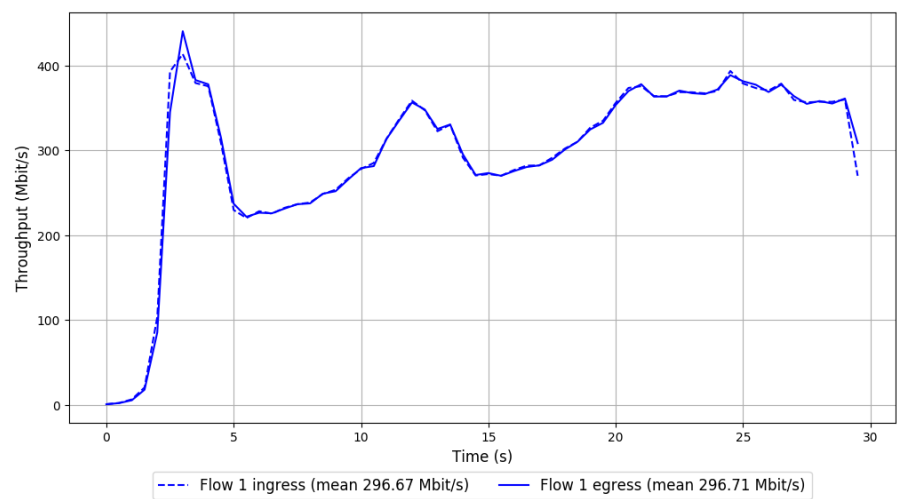
-- Flow 1:

Average throughput: 296.71 Mbit/s

95th percentile per-packet one-way delay: 54.794 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-13 06:27:27

End at: 2018-03-13 06:27:57

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.40 Mbit/s

95th percentile per-packet one-way delay: 61.668 ms

Loss rate: 0.00%

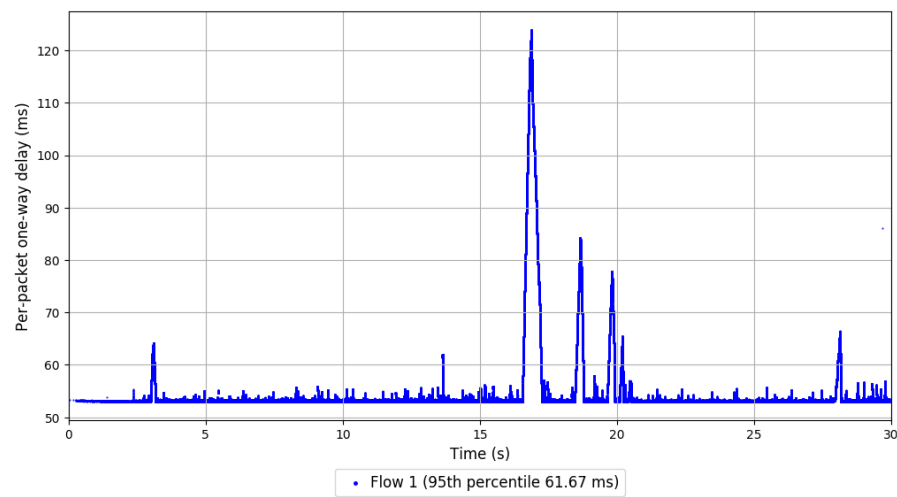
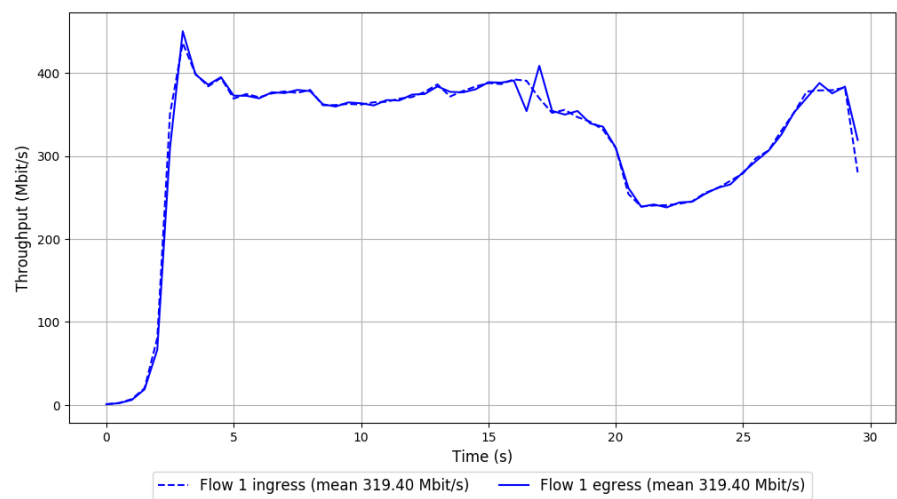
-- Flow 1:

Average throughput: 319.40 Mbit/s

95th percentile per-packet one-way delay: 61.668 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-13 06:42:01

End at: 2018-03-13 06:42:31

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.40 Mbit/s

95th percentile per-packet one-way delay: 54.679 ms

Loss rate: 0.00%

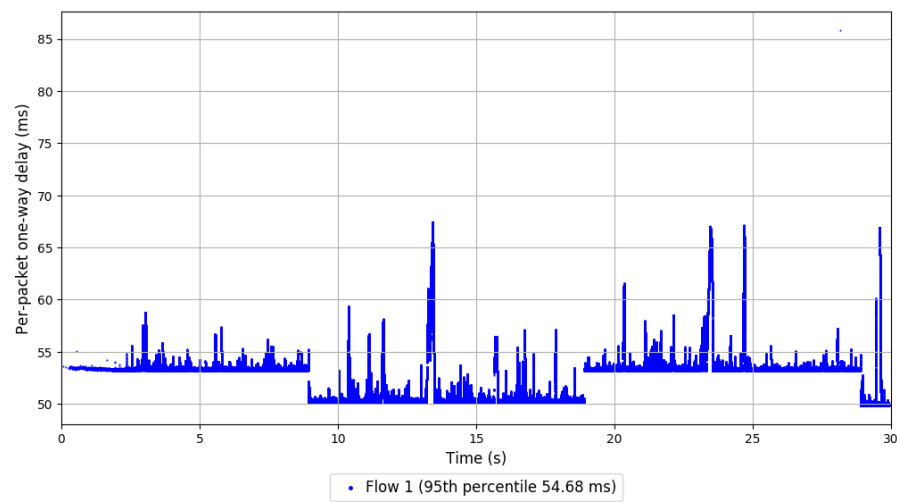
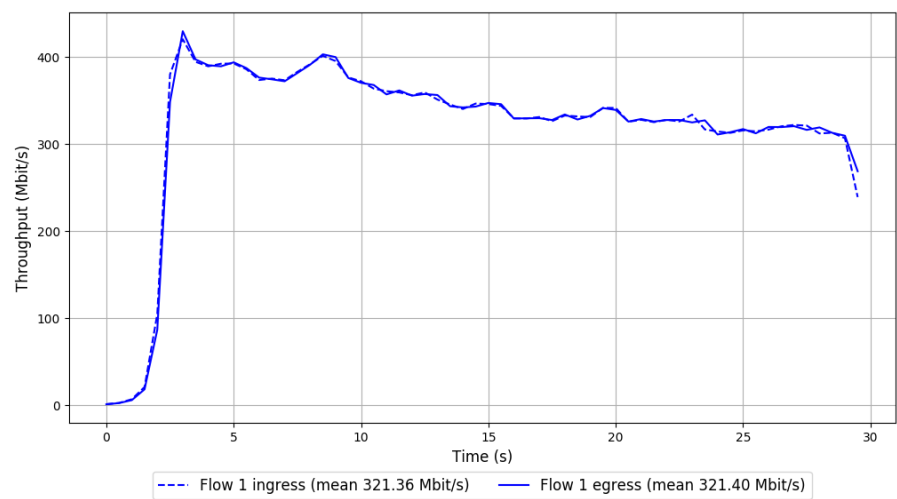
-- Flow 1:

Average throughput: 321.40 Mbit/s

95th percentile per-packet one-way delay: 54.679 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-13 06:56:34

End at: 2018-03-13 06:57:04

Below is generated by plot.py at 2018-03-13 11:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.63 Mbit/s

95th percentile per-packet one-way delay: 54.095 ms

Loss rate: 0.00%

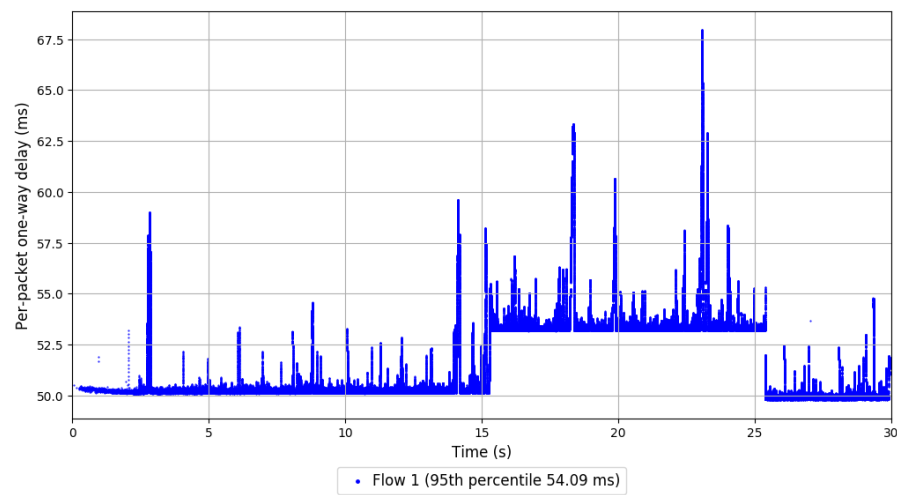
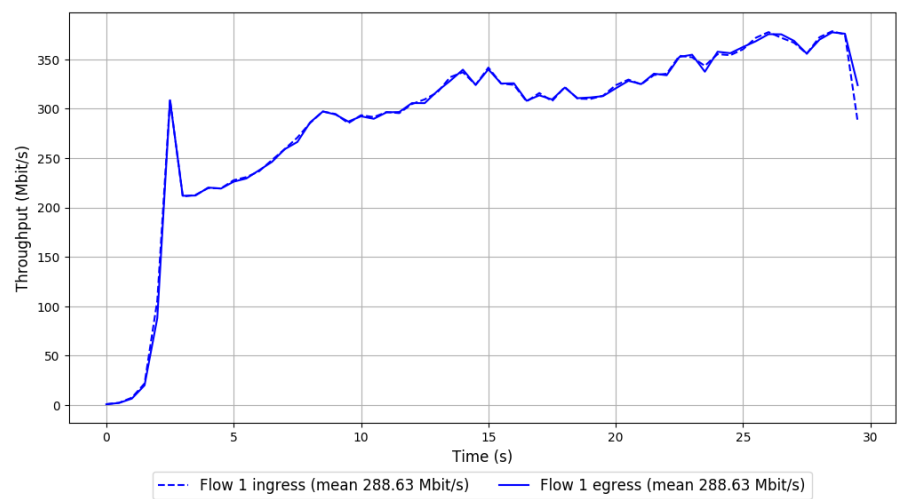
-- Flow 1:

Average throughput: 288.63 Mbit/s

95th percentile per-packet one-way delay: 54.095 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-13 07:10:53

End at: 2018-03-13 07:11:23

Below is generated by plot.py at 2018-03-13 11:53:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.52 Mbit/s

95th percentile per-packet one-way delay: 51.019 ms

Loss rate: 0.00%

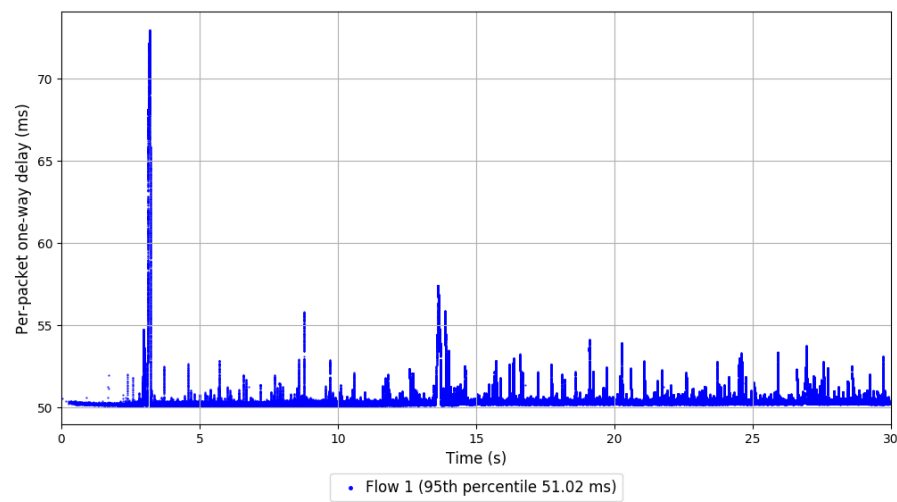
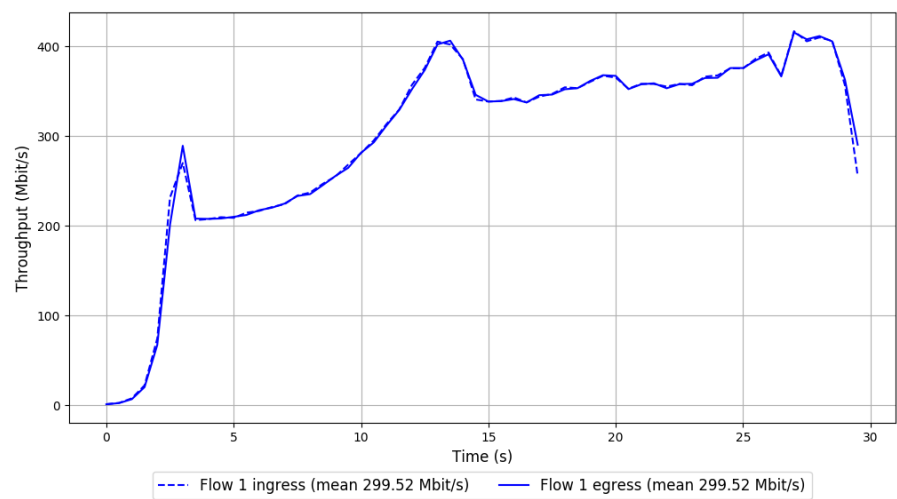
-- Flow 1:

Average throughput: 299.52 Mbit/s

95th percentile per-packet one-way delay: 51.019 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-13 07:25:31

End at: 2018-03-13 07:26:01

Below is generated by plot.py at 2018-03-13 11:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.50 Mbit/s

95th percentile per-packet one-way delay: 70.340 ms

Loss rate: 0.01%

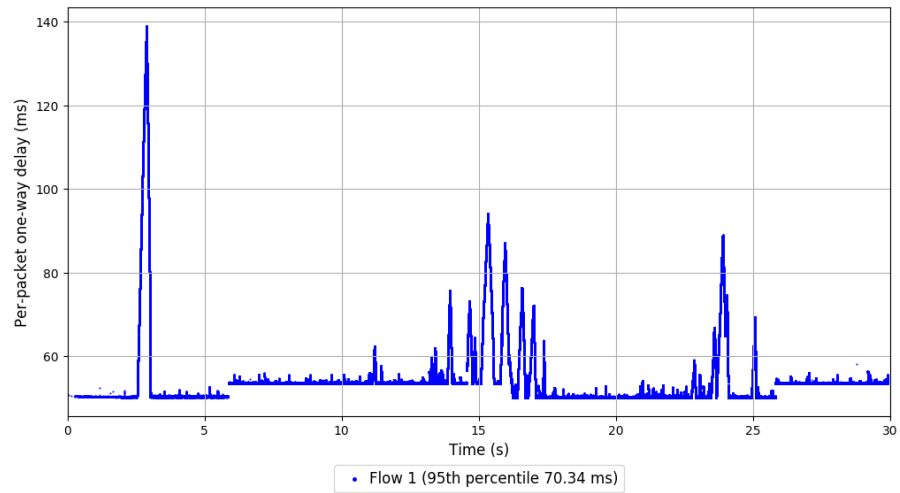
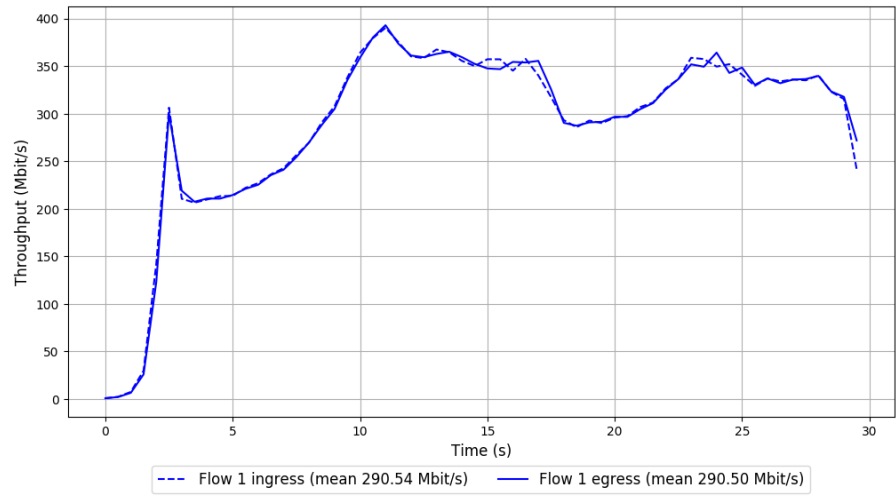
-- Flow 1:

Average throughput: 290.50 Mbit/s

95th percentile per-packet one-way delay: 70.340 ms

Loss rate: 0.01%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-13 07:39:44

End at: 2018-03-13 07:40:14

Below is generated by plot.py at 2018-03-13 11:55:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.85 Mbit/s

95th percentile per-packet one-way delay: 53.801 ms

Loss rate: 0.00%

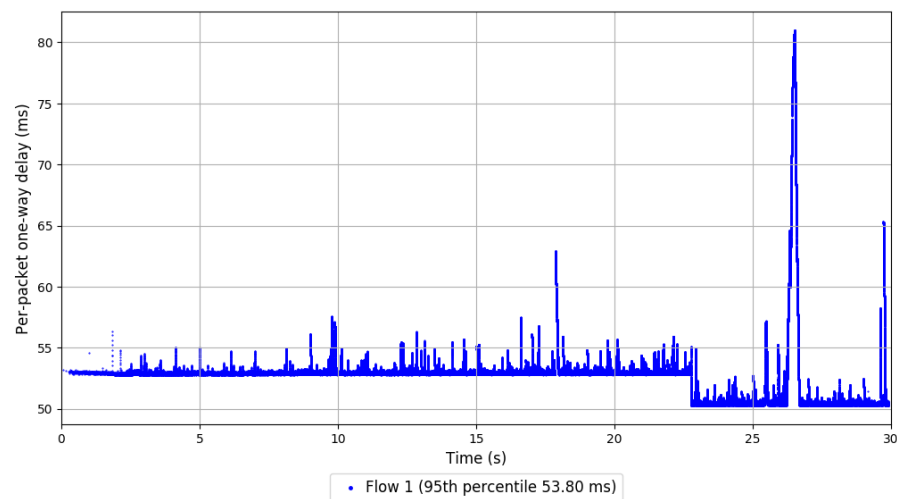
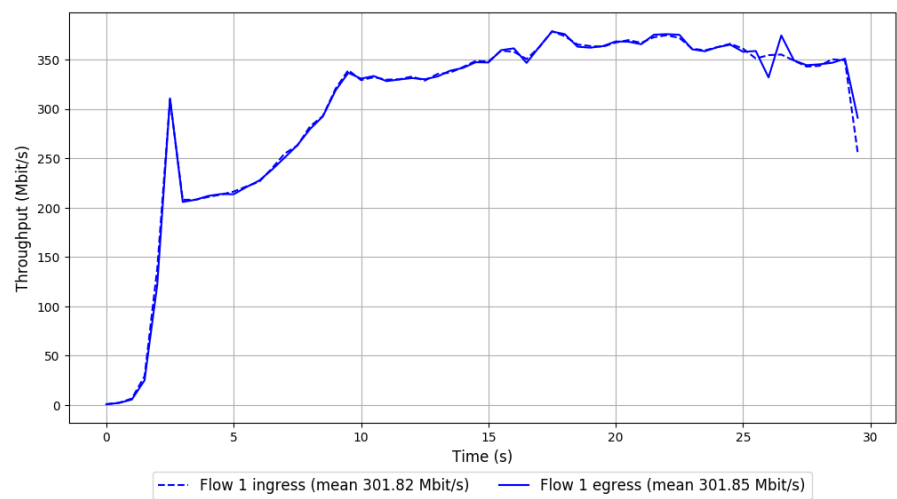
-- Flow 1:

Average throughput: 301.85 Mbit/s

95th percentile per-packet one-way delay: 53.801 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-13 07:53:53

End at: 2018-03-13 07:54:23

Below is generated by plot.py at 2018-03-13 11:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.86 Mbit/s

95th percentile per-packet one-way delay: 51.424 ms

Loss rate: 0.00%

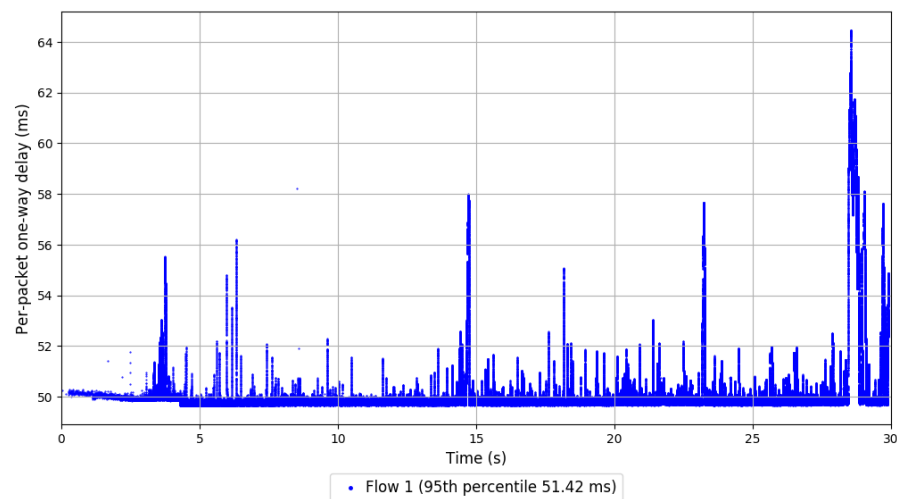
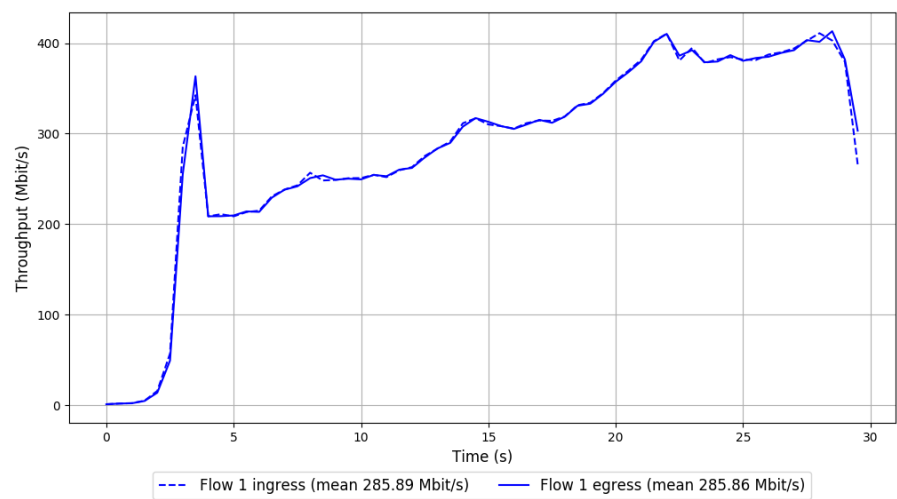
-- Flow 1:

Average throughput: 285.86 Mbit/s

95th percentile per-packet one-way delay: 51.424 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-13 08:08:06

End at: 2018-03-13 08:08:36

Below is generated by plot.py at 2018-03-13 11:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.01 Mbit/s

95th percentile per-packet one-way delay: 55.998 ms

Loss rate: 0.00%

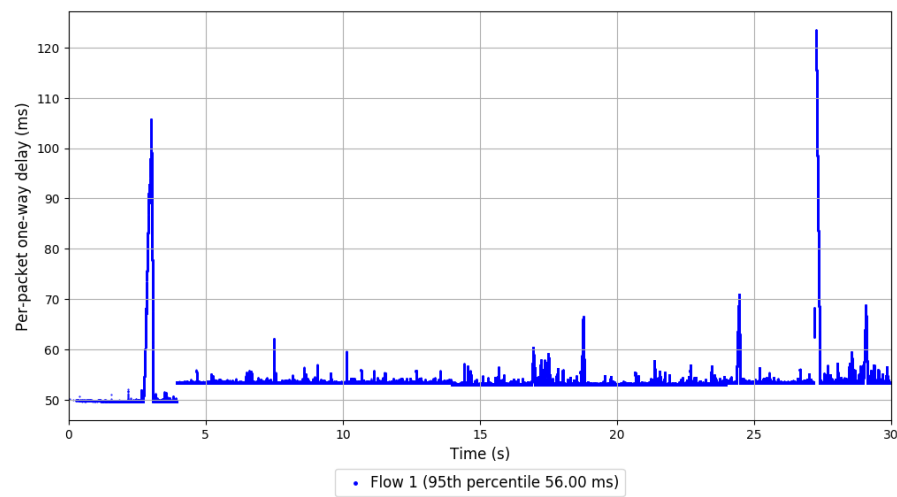
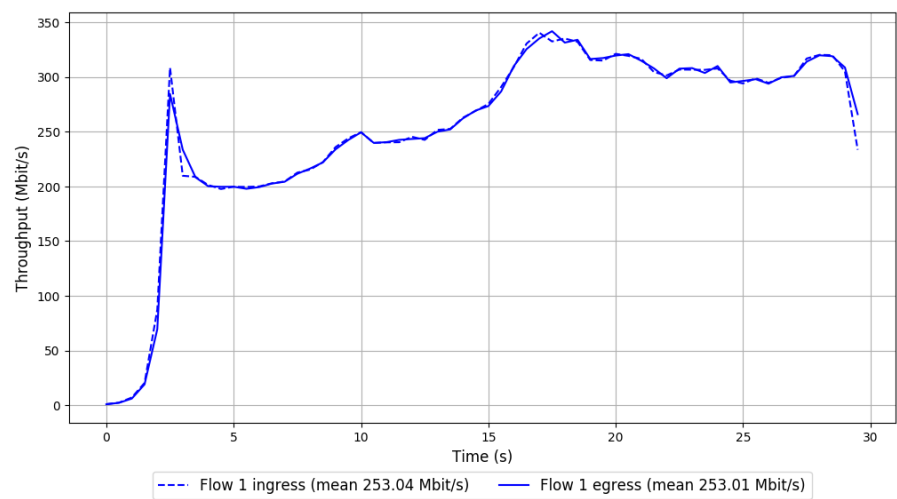
-- Flow 1:

Average throughput: 253.01 Mbit/s

95th percentile per-packet one-way delay: 55.998 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

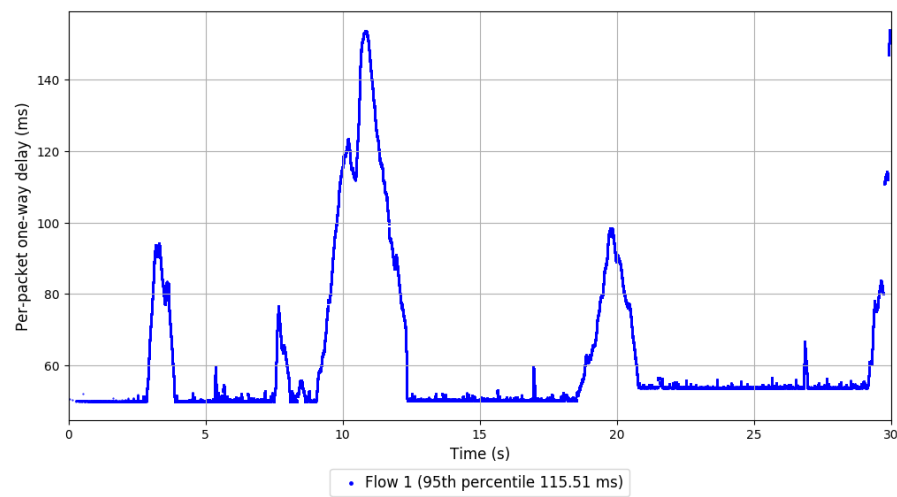
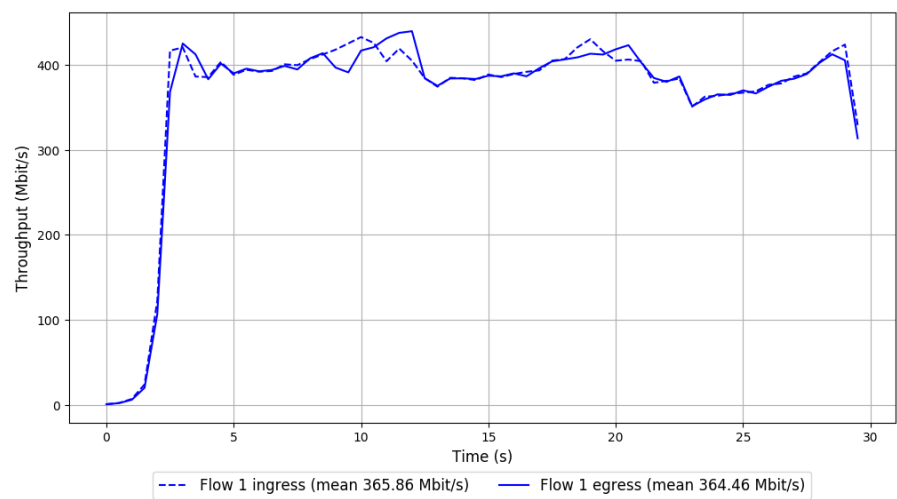


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-13 06:08:27
End at: 2018-03-13 06:08:57

# Below is generated by plot.py at 2018-03-13 11:58:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.46 Mbit/s
95th percentile per-packet one-way delay: 115.513 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 364.46 Mbit/s
95th percentile per-packet one-way delay: 115.513 ms
Loss rate: 0.37%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-13 06:22:46

End at: 2018-03-13 06:23:16

Below is generated by plot.py at 2018-03-13 11:58:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.33 Mbit/s

95th percentile per-packet one-way delay: 57.070 ms

Loss rate: 0.01%

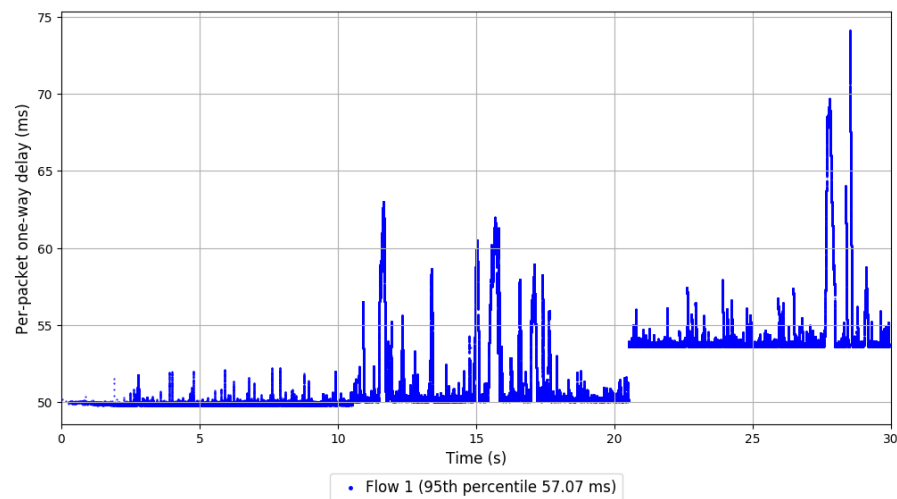
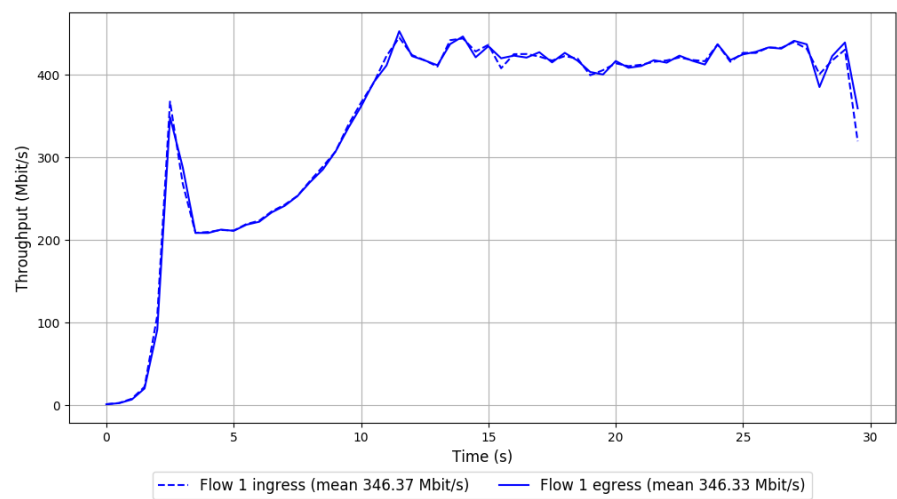
-- Flow 1:

Average throughput: 346.33 Mbit/s

95th percentile per-packet one-way delay: 57.070 ms

Loss rate: 0.01%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-13 06:37:19

End at: 2018-03-13 06:37:49

Below is generated by plot.py at 2018-03-13 11:59:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.98 Mbit/s

95th percentile per-packet one-way delay: 87.305 ms

Loss rate: 0.00%

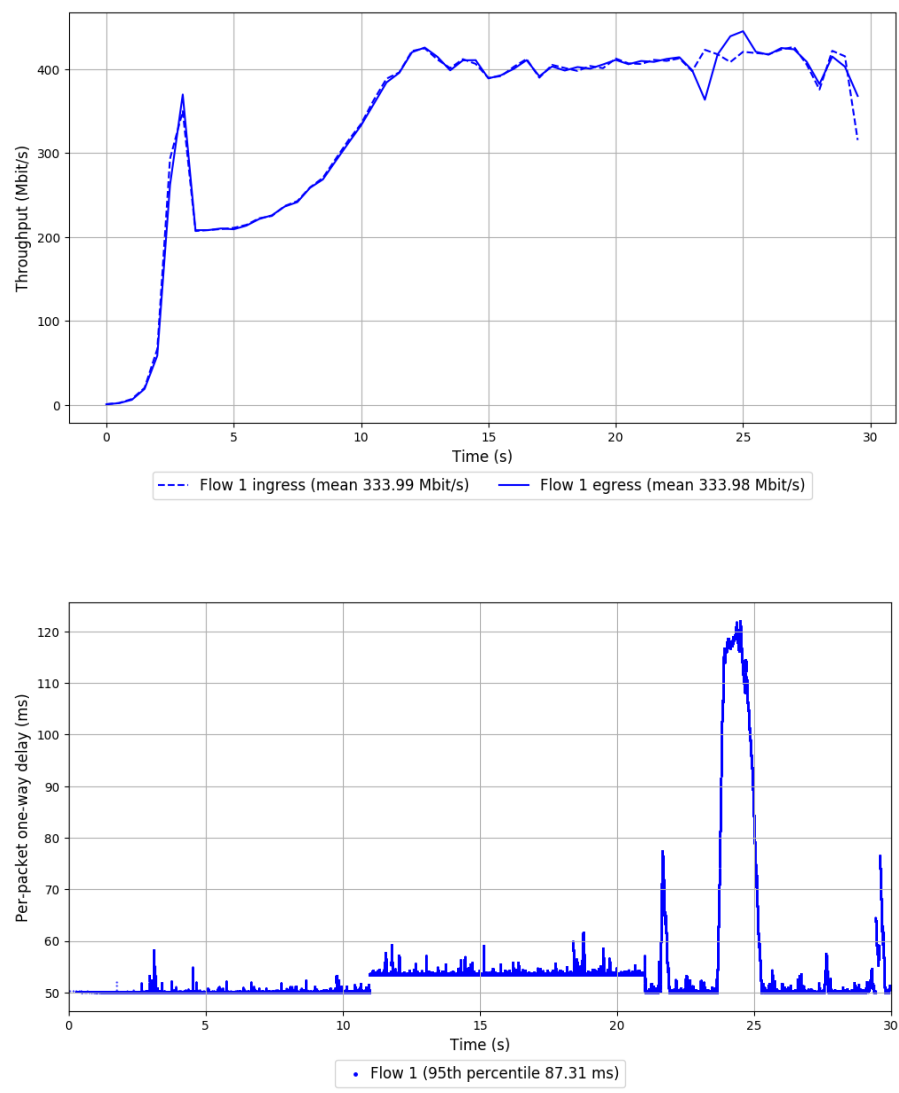
-- Flow 1:

Average throughput: 333.98 Mbit/s

95th percentile per-packet one-way delay: 87.305 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-13 06:51:51

End at: 2018-03-13 06:52:21

Below is generated by plot.py at 2018-03-13 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.94 Mbit/s

95th percentile per-packet one-way delay: 92.346 ms

Loss rate: 0.01%

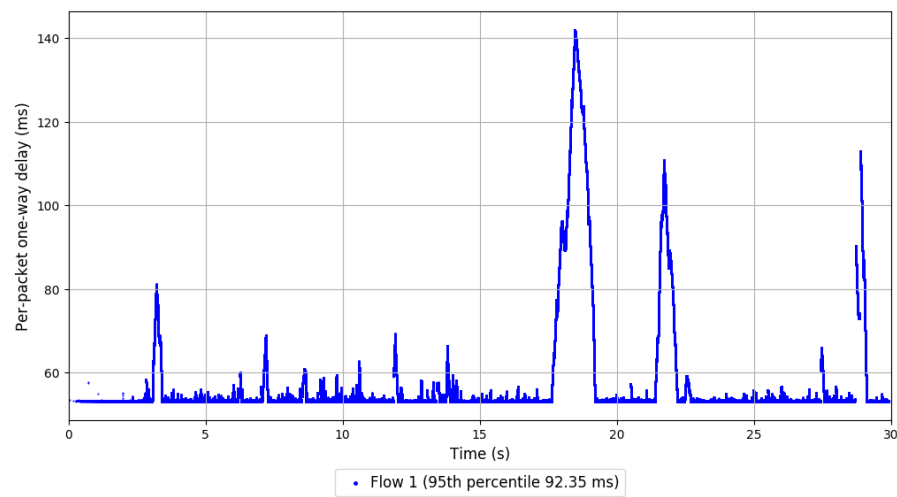
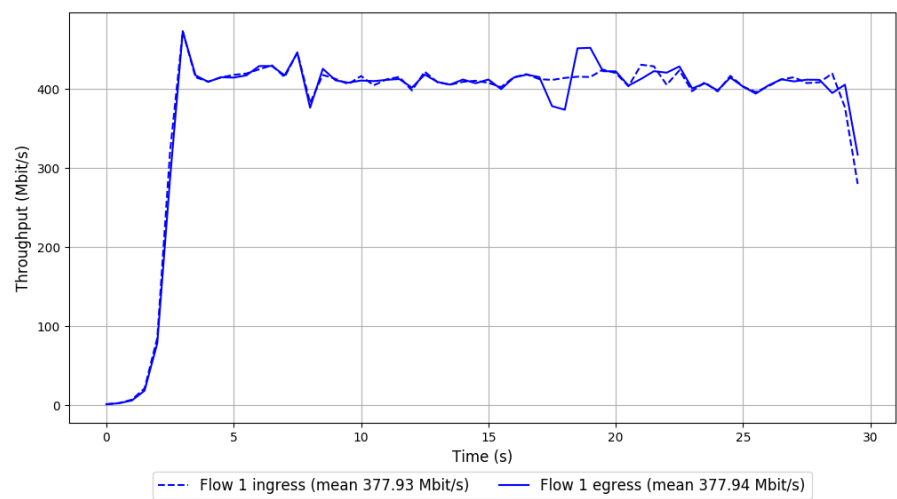
-- Flow 1:

Average throughput: 377.94 Mbit/s

95th percentile per-packet one-way delay: 92.346 ms

Loss rate: 0.01%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-13 07:06:11

End at: 2018-03-13 07:06:41

Below is generated by plot.py at 2018-03-13 12:03:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.00 Mbit/s

95th percentile per-packet one-way delay: 58.389 ms

Loss rate: 0.01%

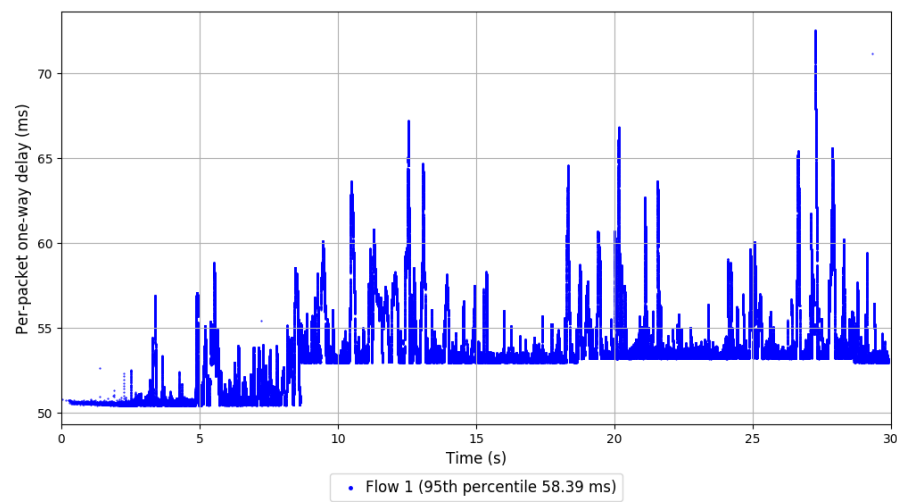
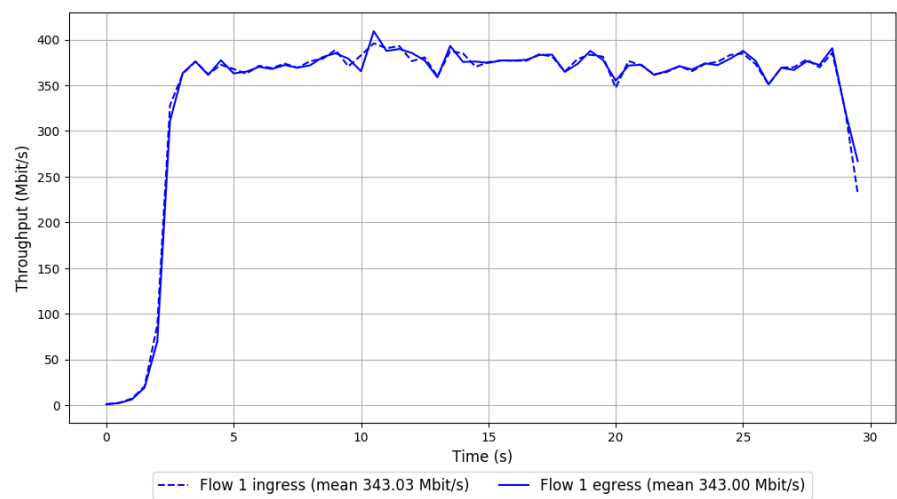
-- Flow 1:

Average throughput: 343.00 Mbit/s

95th percentile per-packet one-way delay: 58.389 ms

Loss rate: 0.01%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-13 07:20:41

End at: 2018-03-13 07:21:11

Below is generated by plot.py at 2018-03-13 12:04:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.22 Mbit/s

95th percentile per-packet one-way delay: 58.765 ms

Loss rate: 0.00%

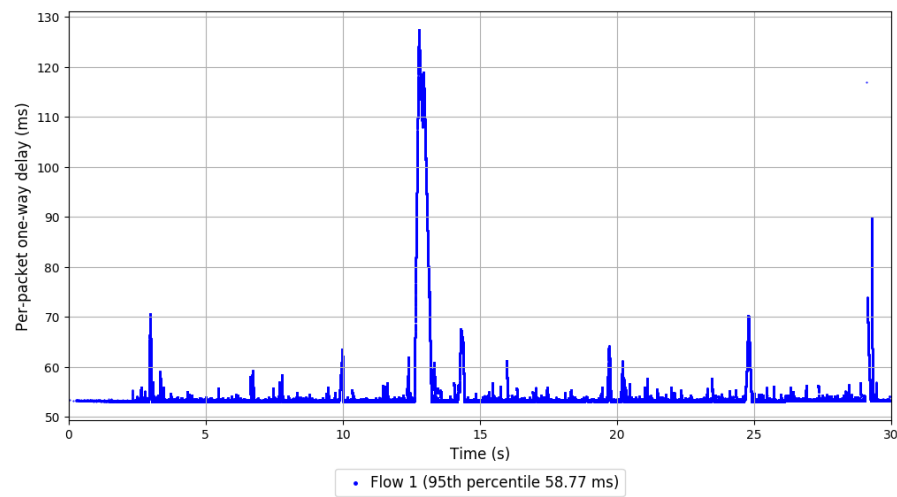
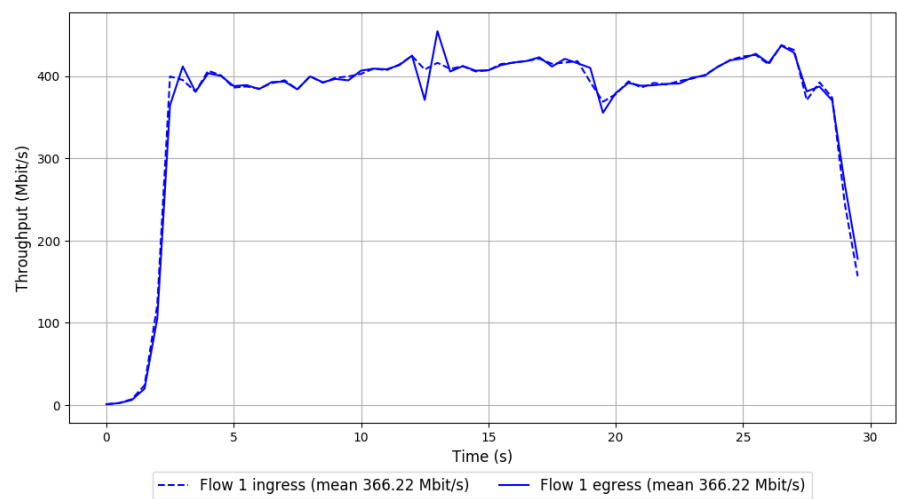
-- Flow 1:

Average throughput: 366.22 Mbit/s

95th percentile per-packet one-way delay: 58.765 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-13 07:34:59

End at: 2018-03-13 07:35:29

Below is generated by plot.py at 2018-03-13 12:04:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.54 Mbit/s

95th percentile per-packet one-way delay: 56.421 ms

Loss rate: 0.00%

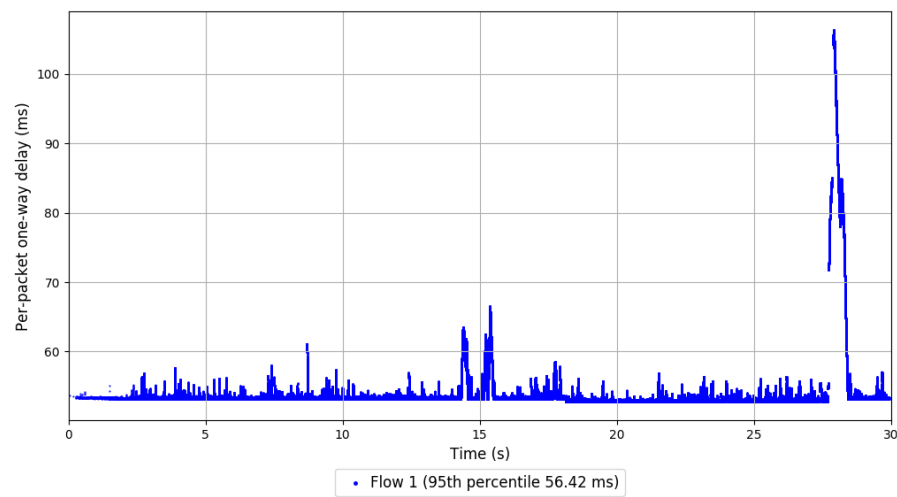
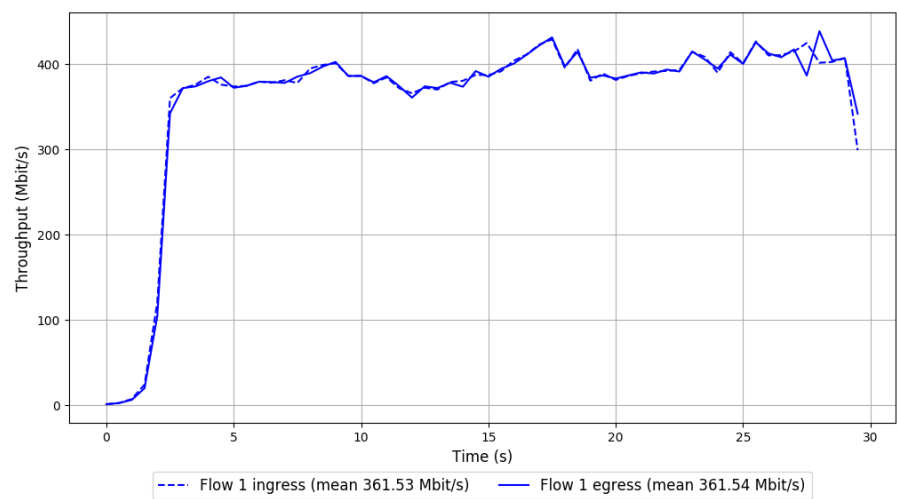
-- Flow 1:

Average throughput: 361.54 Mbit/s

95th percentile per-packet one-way delay: 56.421 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-13 07:49:13

End at: 2018-03-13 07:49:43

Below is generated by plot.py at 2018-03-13 12:04:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.80 Mbit/s

95th percentile per-packet one-way delay: 90.735 ms

Loss rate: 0.00%

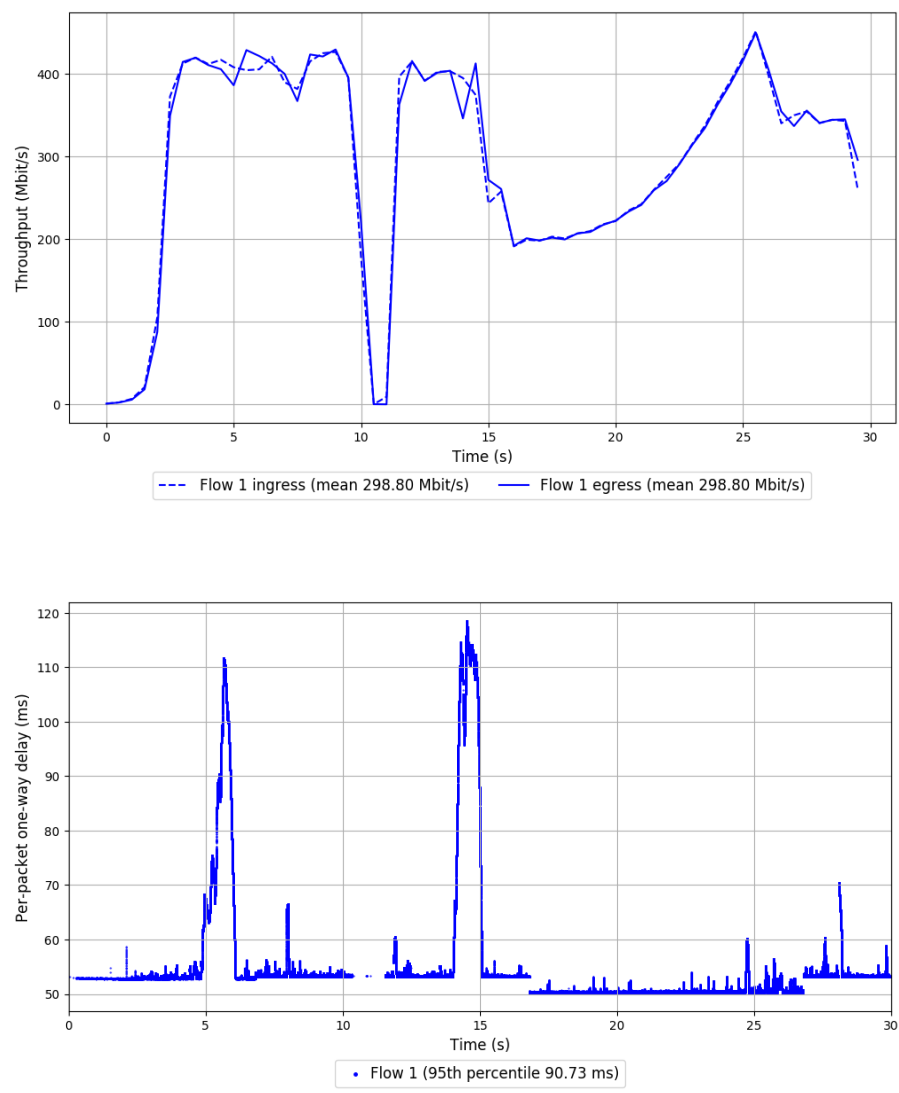
-- Flow 1:

Average throughput: 298.80 Mbit/s

95th percentile per-packet one-way delay: 90.735 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-13 08:03:24

End at: 2018-03-13 08:03:54

Below is generated by plot.py at 2018-03-13 12:06:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.40 Mbit/s

95th percentile per-packet one-way delay: 118.384 ms

Loss rate: 0.00%

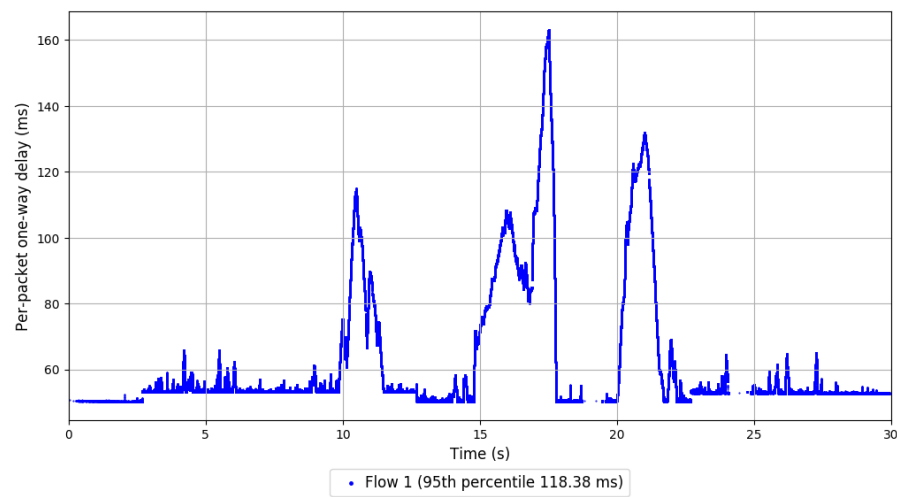
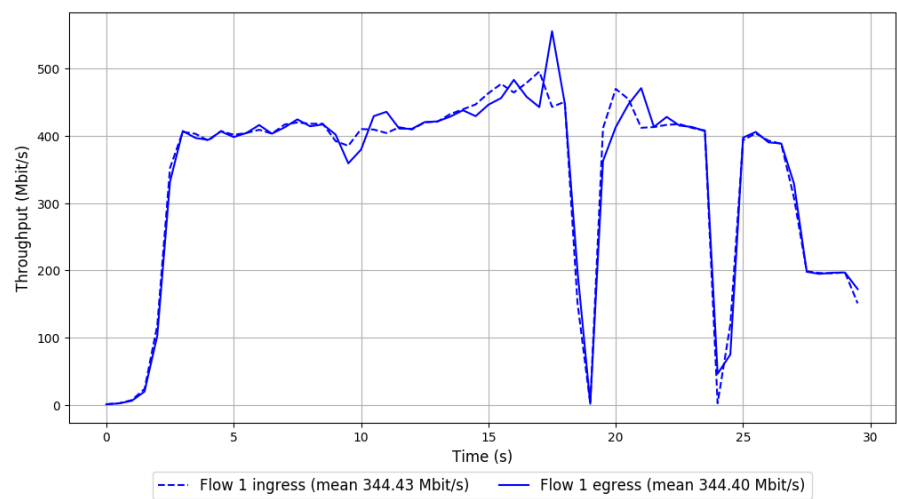
-- Flow 1:

Average throughput: 344.40 Mbit/s

95th percentile per-packet one-way delay: 118.384 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-13 08:17:31

End at: 2018-03-13 08:18:01

Below is generated by plot.py at 2018-03-13 12:06:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.66 Mbit/s

95th percentile per-packet one-way delay: 54.071 ms

Loss rate: 0.00%

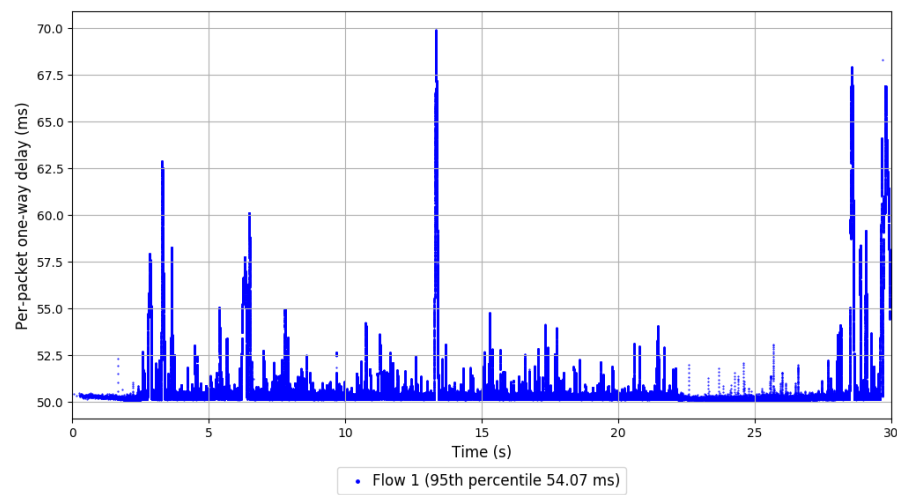
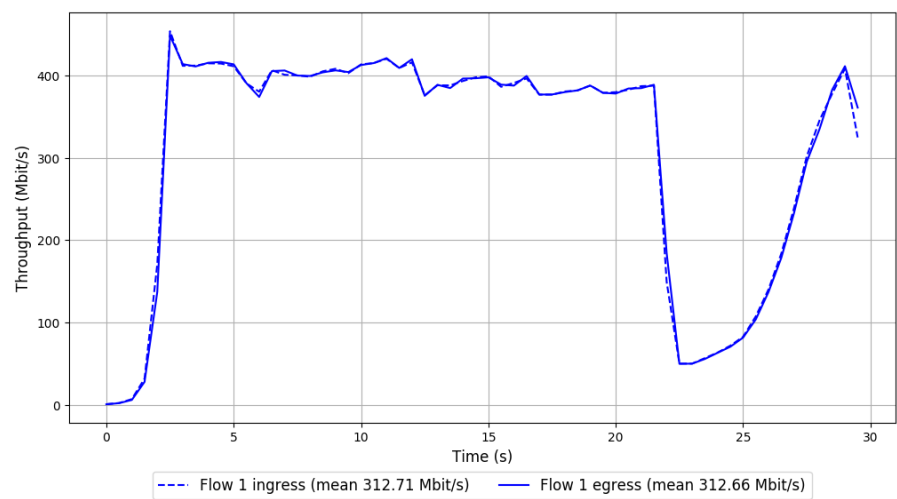
-- Flow 1:

Average throughput: 312.66 Mbit/s

95th percentile per-packet one-way delay: 54.071 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

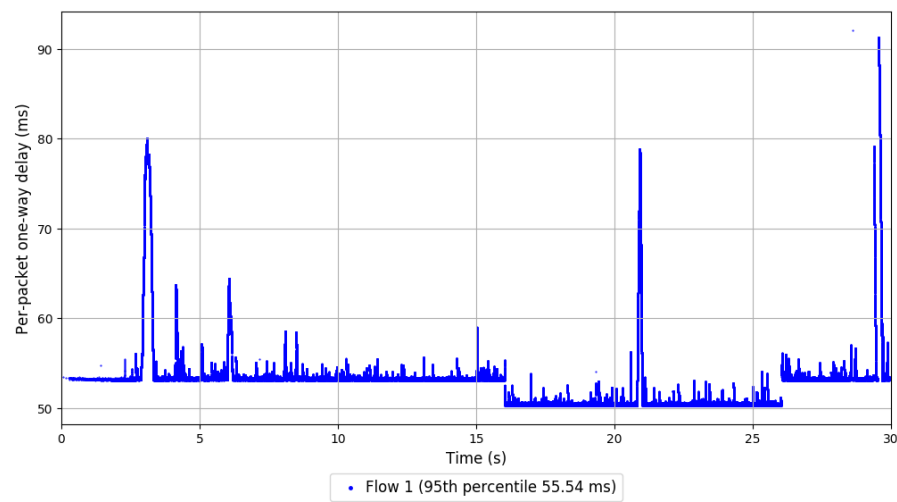
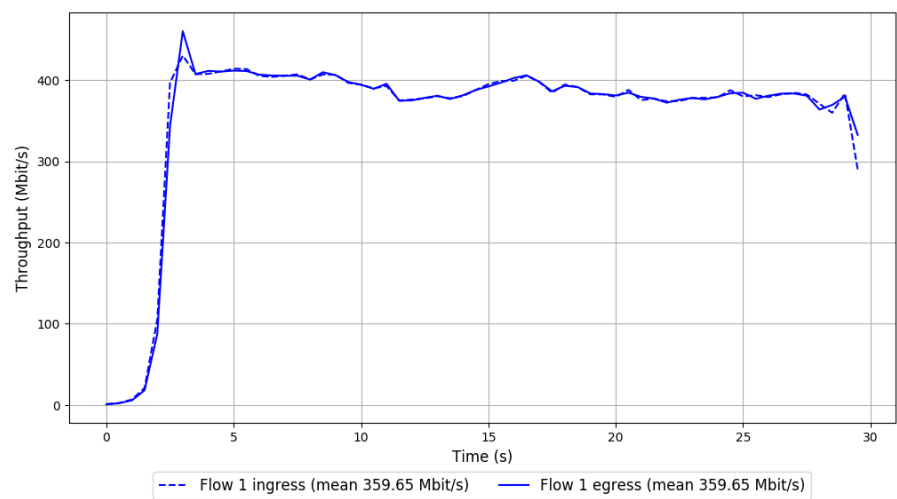


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-13 06:11:01
End at: 2018-03-13 06:11:31

# Below is generated by plot.py at 2018-03-13 12:08:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.65 Mbit/s
95th percentile per-packet one-way delay: 55.544 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.65 Mbit/s
95th percentile per-packet one-way delay: 55.544 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-13 06:25:13

End at: 2018-03-13 06:25:43

Below is generated by plot.py at 2018-03-13 12:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.20 Mbit/s

95th percentile per-packet one-way delay: 56.835 ms

Loss rate: 0.00%

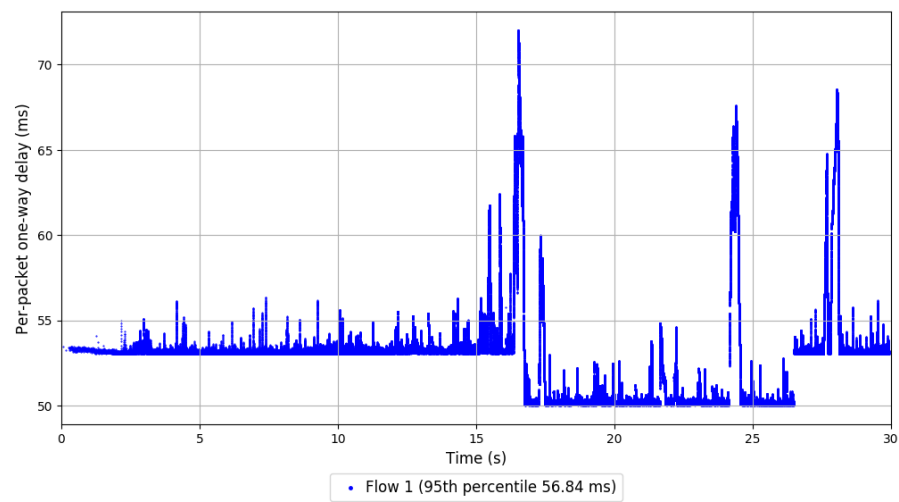
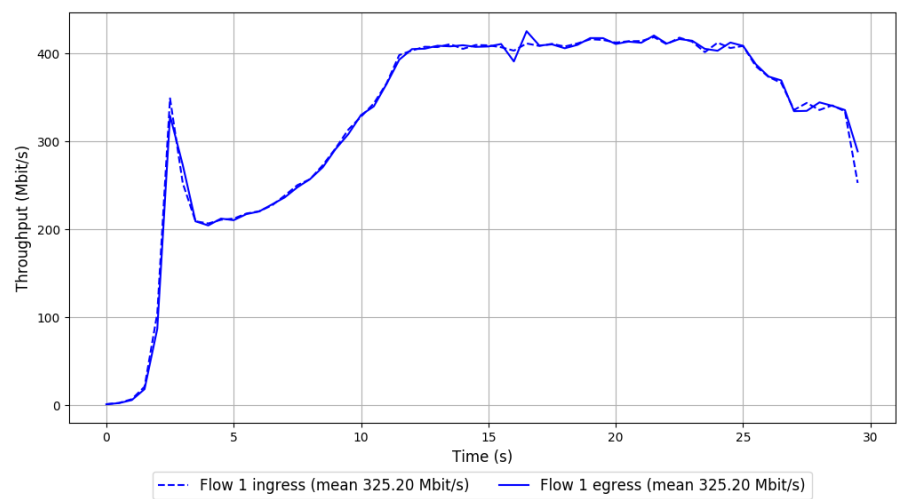
-- Flow 1:

Average throughput: 325.20 Mbit/s

95th percentile per-packet one-way delay: 56.835 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-13 06:39:44

End at: 2018-03-13 06:40:14

Below is generated by plot.py at 2018-03-13 12:12:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.47 Mbit/s

95th percentile per-packet one-way delay: 65.047 ms

Loss rate: 0.00%

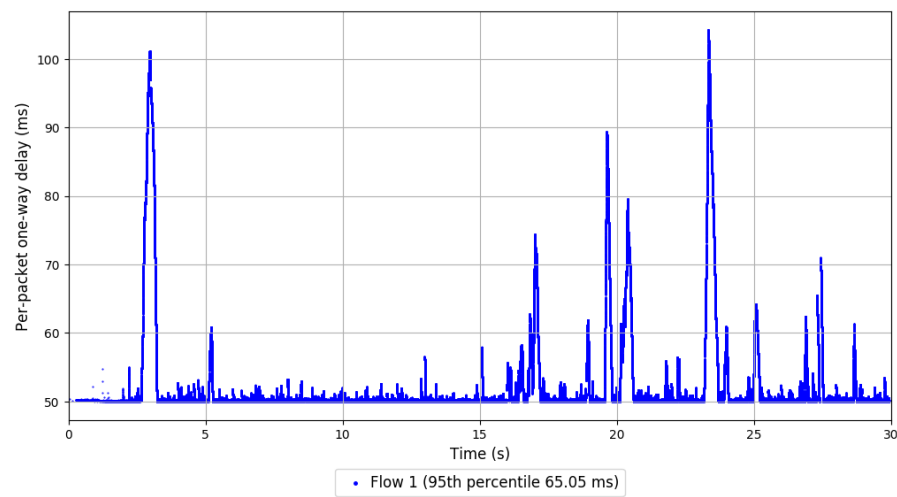
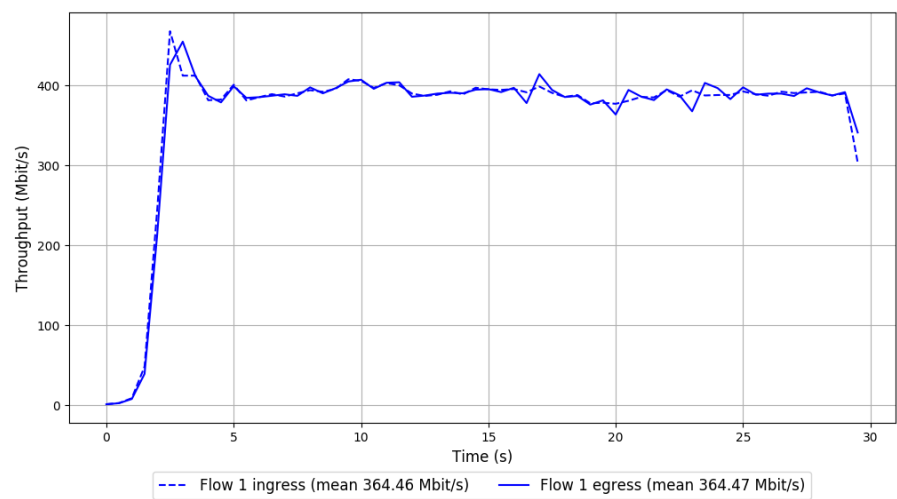
-- Flow 1:

Average throughput: 364.47 Mbit/s

95th percentile per-packet one-way delay: 65.047 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-13 06:54:18

End at: 2018-03-13 06:54:48

Below is generated by plot.py at 2018-03-13 12:12:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.90 Mbit/s

95th percentile per-packet one-way delay: 52.102 ms

Loss rate: 0.00%

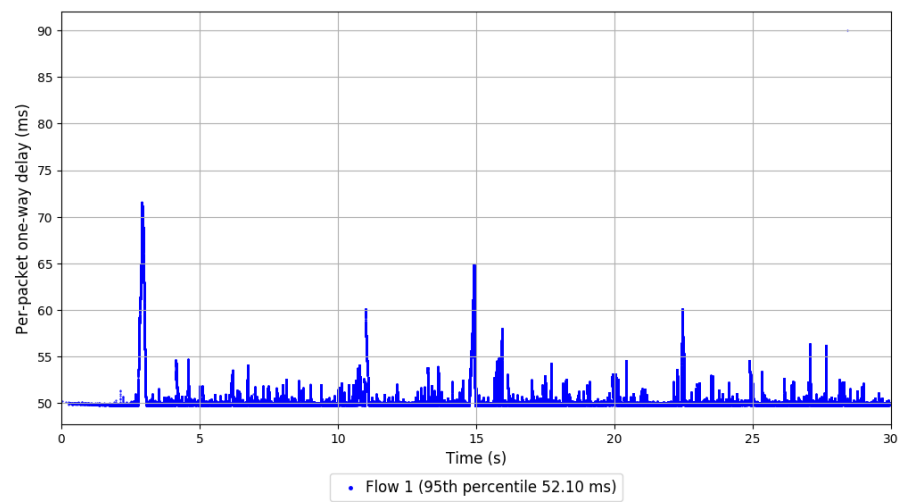
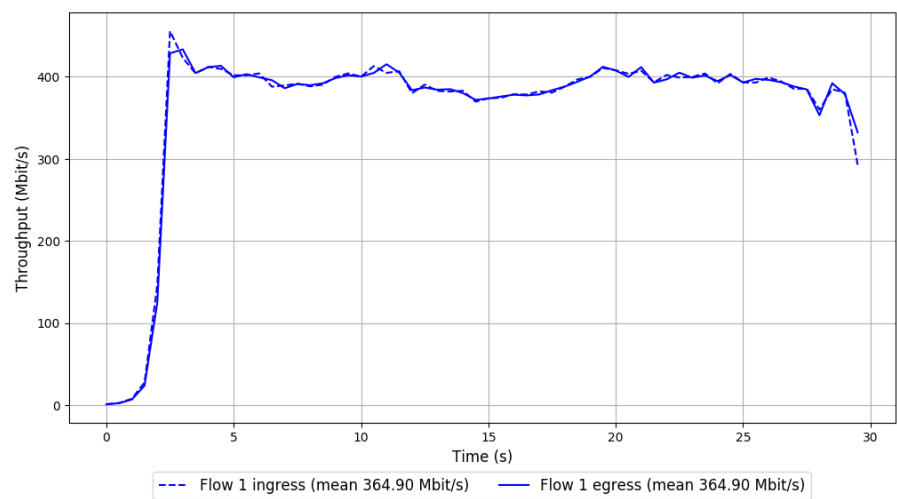
-- Flow 1:

Average throughput: 364.90 Mbit/s

95th percentile per-packet one-way delay: 52.102 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-13 07:08:42

End at: 2018-03-13 07:09:12

Below is generated by plot.py at 2018-03-13 12:12:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.58 Mbit/s

95th percentile per-packet one-way delay: 60.606 ms

Loss rate: 0.00%

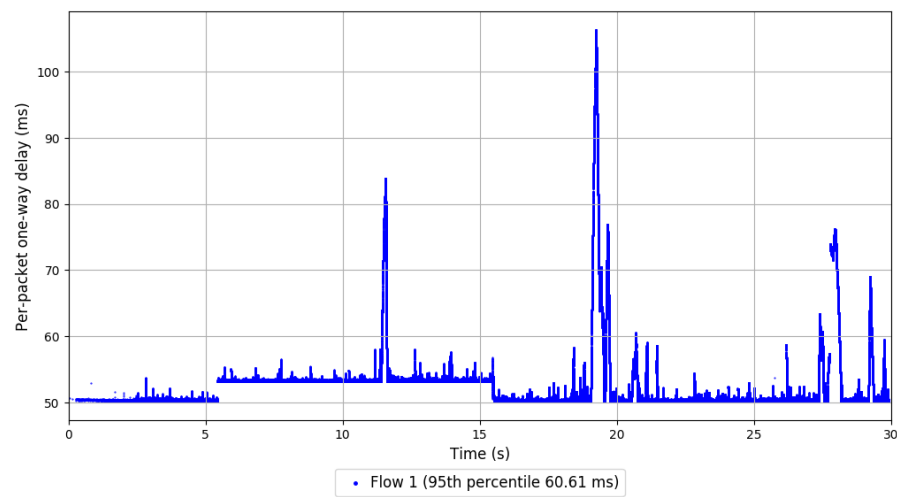
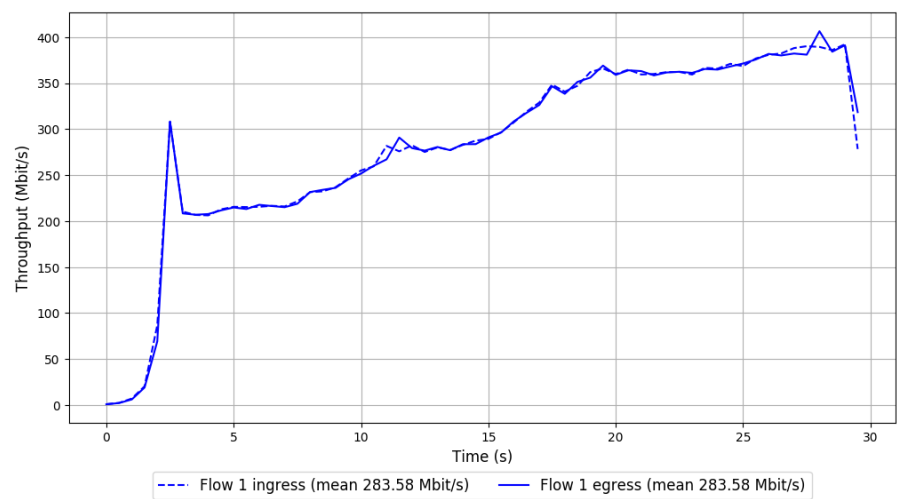
-- Flow 1:

Average throughput: 283.58 Mbit/s

95th percentile per-packet one-way delay: 60.606 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-13 07:23:16

End at: 2018-03-13 07:23:46

Below is generated by plot.py at 2018-03-13 12:12:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.99 Mbit/s

95th percentile per-packet one-way delay: 101.335 ms

Loss rate: 0.00%

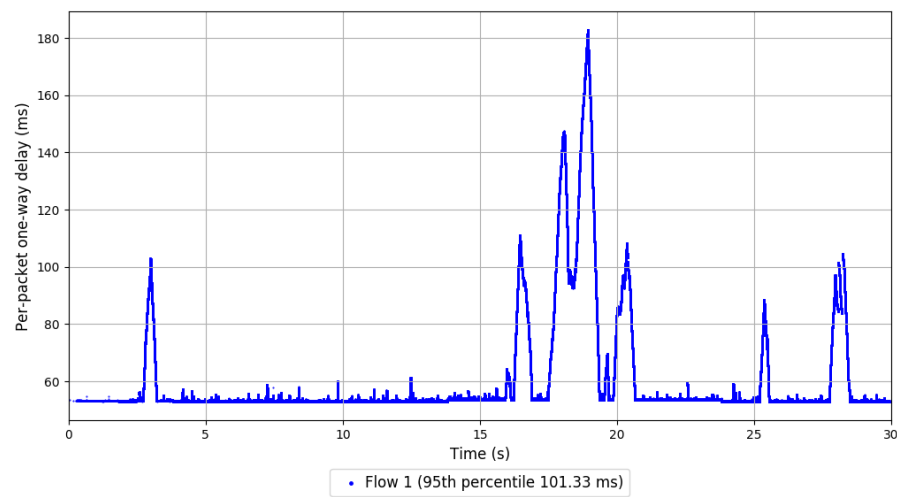
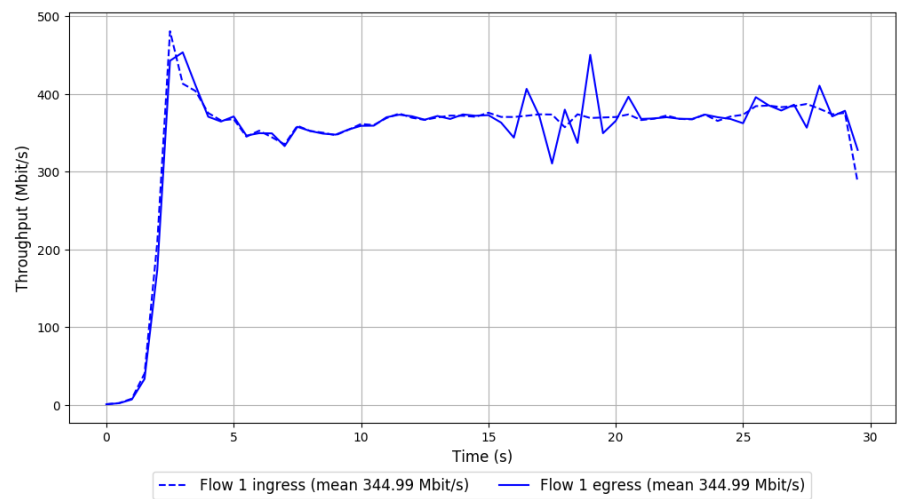
-- Flow 1:

Average throughput: 344.99 Mbit/s

95th percentile per-packet one-way delay: 101.335 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-13 07:37:30

End at: 2018-03-13 07:38:00

Below is generated by plot.py at 2018-03-13 12:13:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.95 Mbit/s

95th percentile per-packet one-way delay: 52.092 ms

Loss rate: 0.00%

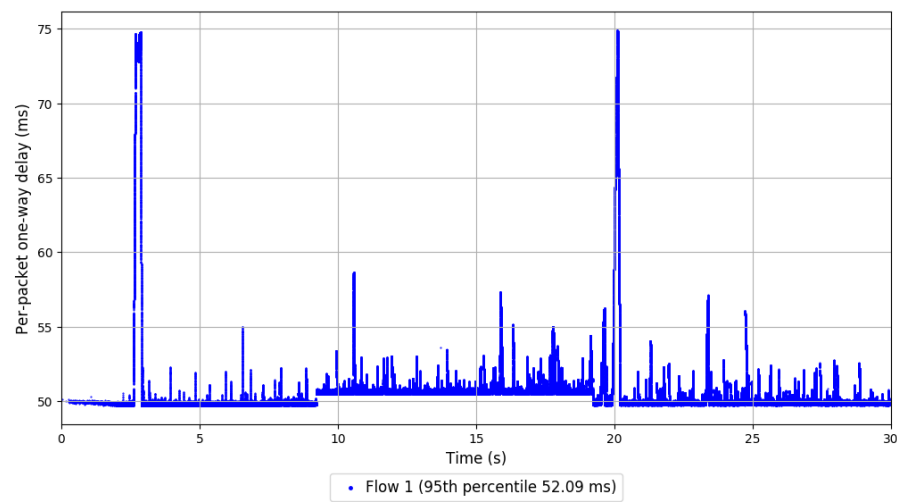
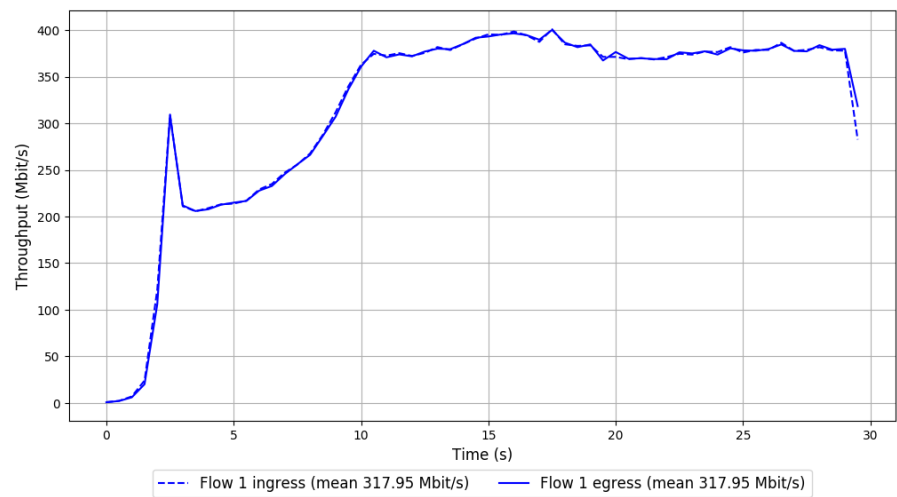
-- Flow 1:

Average throughput: 317.95 Mbit/s

95th percentile per-packet one-way delay: 52.092 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-13 07:51:40

End at: 2018-03-13 07:52:10

Below is generated by plot.py at 2018-03-13 12:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.71 Mbit/s

95th percentile per-packet one-way delay: 73.335 ms

Loss rate: 0.00%

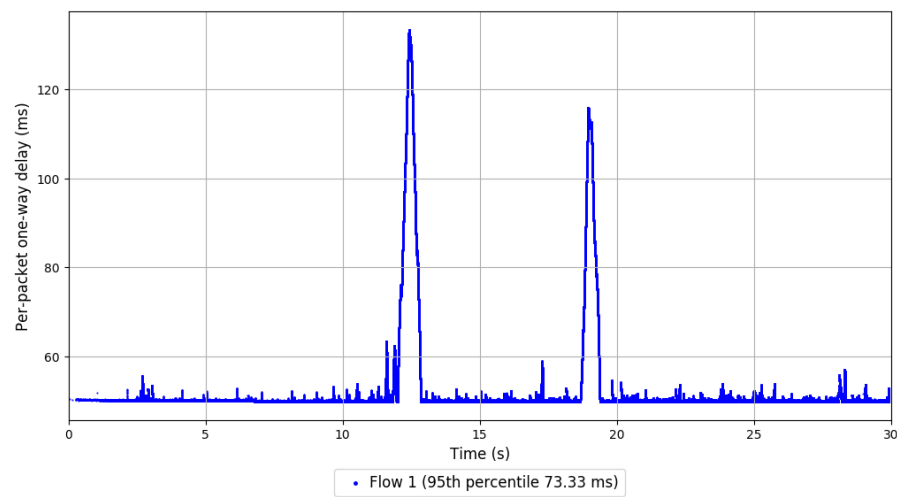
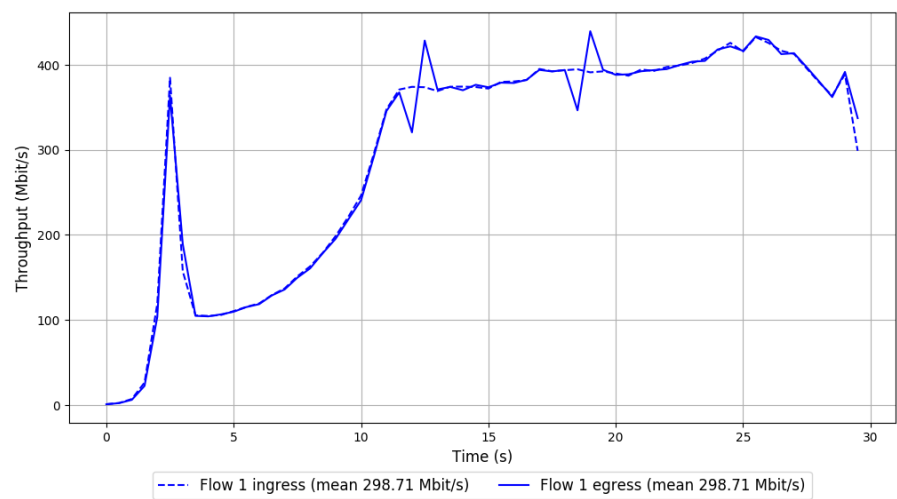
-- Flow 1:

Average throughput: 298.71 Mbit/s

95th percentile per-packet one-way delay: 73.335 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-13 08:05:52

End at: 2018-03-13 08:06:22

Below is generated by plot.py at 2018-03-13 12:13:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.15 Mbit/s

95th percentile per-packet one-way delay: 77.135 ms

Loss rate: 0.01%

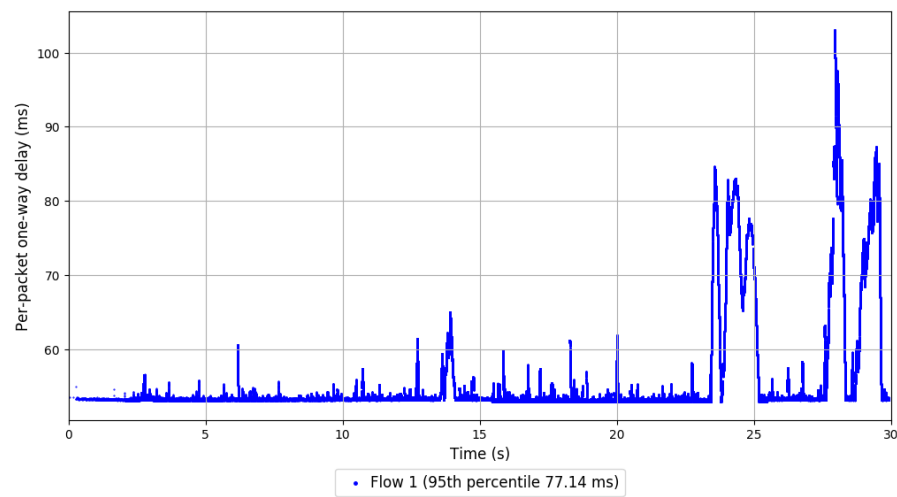
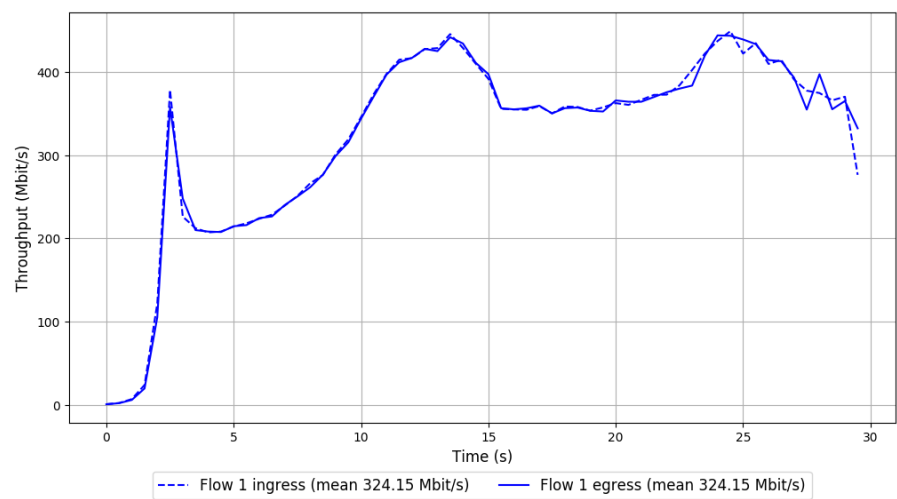
-- Flow 1:

Average throughput: 324.15 Mbit/s

95th percentile per-packet one-way delay: 77.135 ms

Loss rate: 0.01%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-13 08:20:02
End at: 2018-03-13 08:20:32

# Below is generated by plot.py at 2018-03-13 12:13:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.12 Mbit/s
95th percentile per-packet one-way delay: 57.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 319.12 Mbit/s
95th percentile per-packet one-way delay: 57.306 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

