

Pantheon Report

Generated at 2018-02-20 07:26:10 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

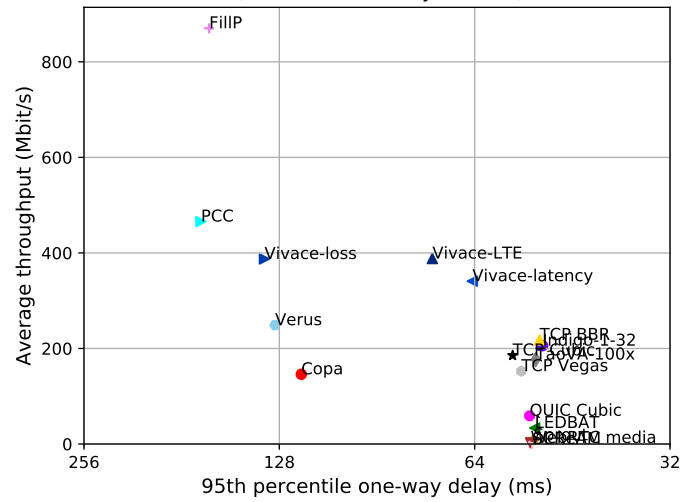
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

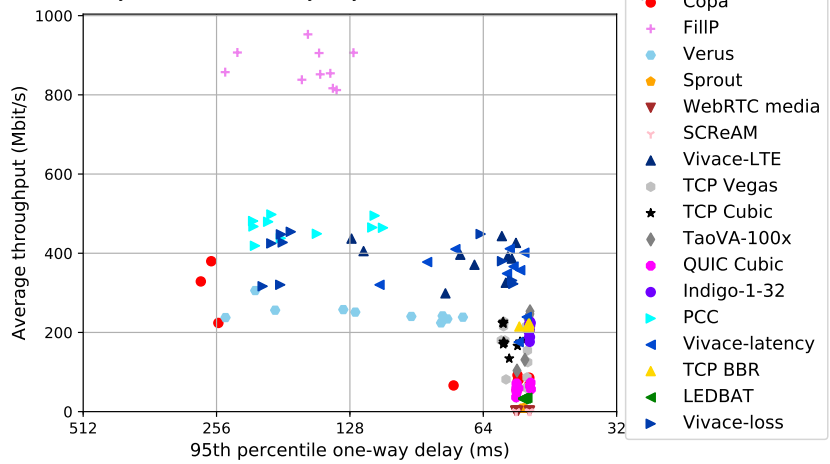
Git summary:

```
branch: master @ 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 Tokyo Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	217.93	50.83	0.36
TCP Cubic	10	185.46	55.93	0.36
LEDBAT	10	33.52	51.72	0.68
PCC	10	465.66	169.04	1.42
QUIC Cubic	10	59.11	52.67	0.58
SCReAM	10	0.21	52.15	0.34
WebRTC media	10	2.31	52.48	0.43
Sprout	10	7.89	51.92	0.38
TaoVA-100x	10	176.77	51.55	0.23
TCP Vegas	10	152.55	54.24	0.28
Verus	10	248.75	129.94	1.06
Copa	10	145.95	118.40	11.92
FillP	10	870.22	164.20	7.32
Indigo-1-32	10	205.82	50.30	0.35
Vivace-latency	10	340.83	64.54	0.48
Vivace-loss	10	387.34	134.94	3.22
Vivace-LTE	10	388.22	74.37	0.60

Run 1: Statistics of TCP BBR

Start at: 2018-02-20 00:58:08

End at: 2018-02-20 00:58:38

Below is generated by plot.py at 2018-02-20 05:53:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.99 Mbit/s

95th percentile per-packet one-way delay: 53.063 ms

Loss rate: 0.36%

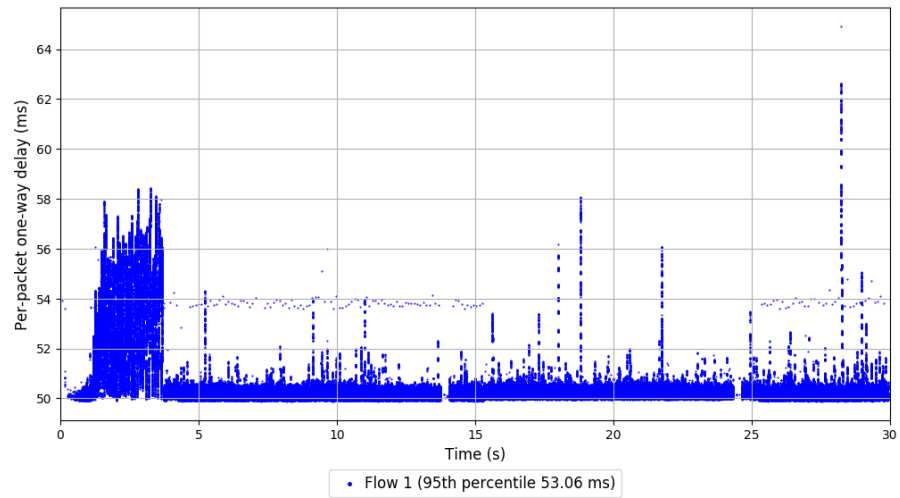
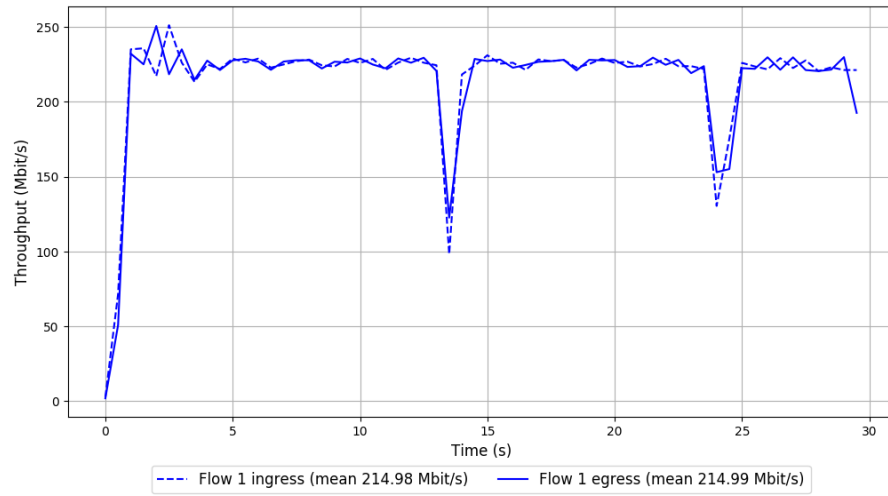
-- Flow 1:

Average throughput: 214.99 Mbit/s

95th percentile per-packet one-way delay: 53.063 ms

Loss rate: 0.36%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-20 01:12:33

End at: 2018-02-20 01:13:03

Below is generated by plot.py at 2018-02-20 05:53:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.96 Mbit/s

95th percentile per-packet one-way delay: 50.694 ms

Loss rate: 0.37%

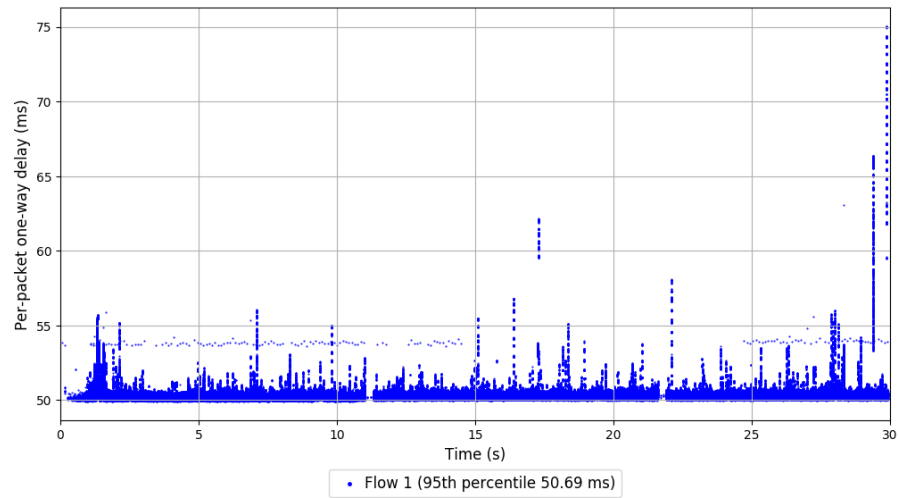
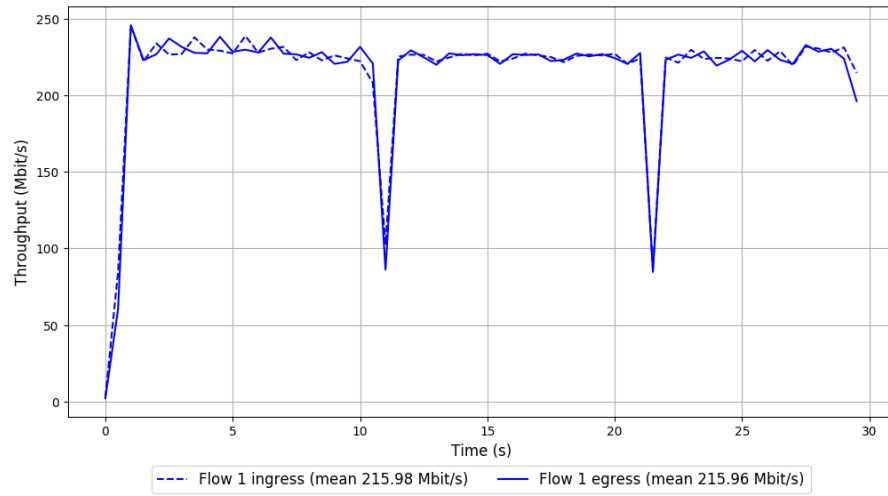
-- Flow 1:

Average throughput: 215.96 Mbit/s

95th percentile per-packet one-way delay: 50.694 ms

Loss rate: 0.37%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-20 01:26:46

End at: 2018-02-20 01:27:16

Below is generated by plot.py at 2018-02-20 05:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.93 Mbit/s

95th percentile per-packet one-way delay: 50.543 ms

Loss rate: 0.38%

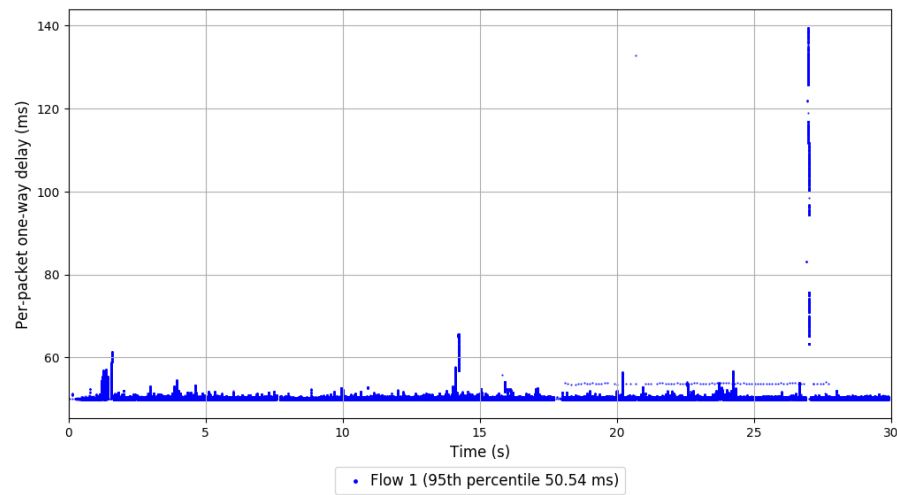
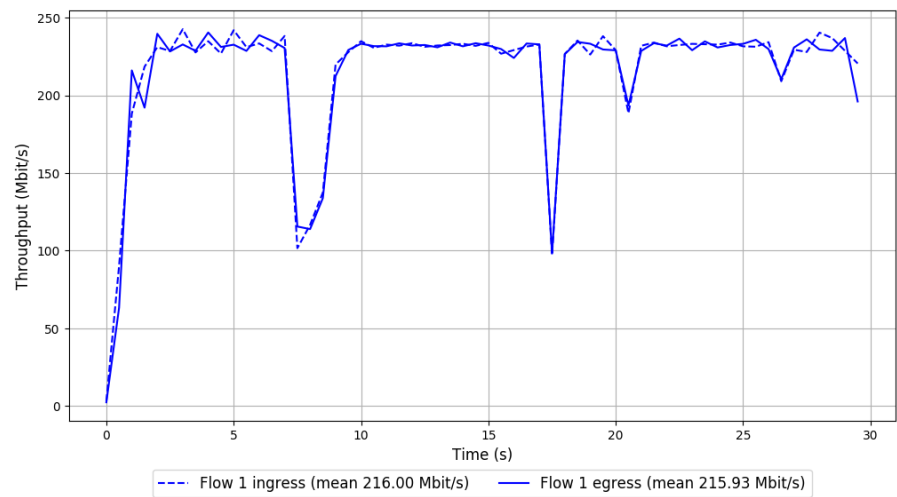
-- Flow 1:

Average throughput: 215.93 Mbit/s

95th percentile per-packet one-way delay: 50.543 ms

Loss rate: 0.38%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-20 01:41:14

End at: 2018-02-20 01:41:44

Below is generated by plot.py at 2018-02-20 05:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.90 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 0.35%

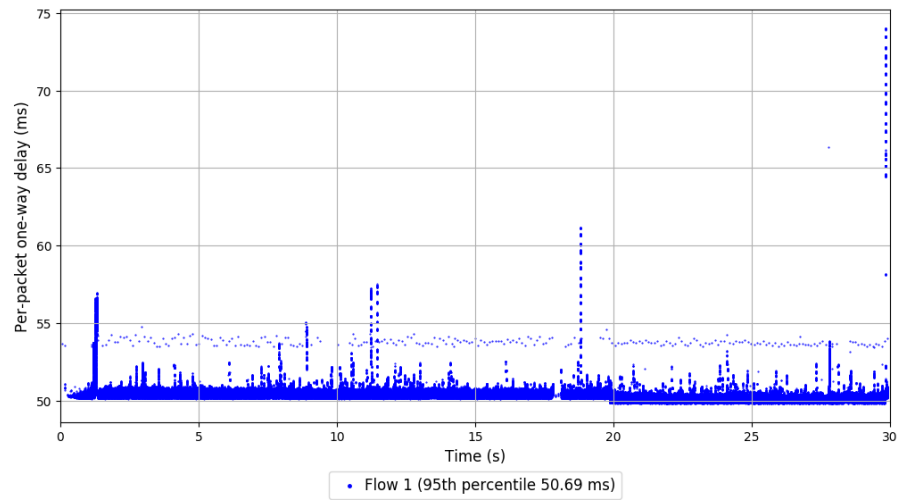
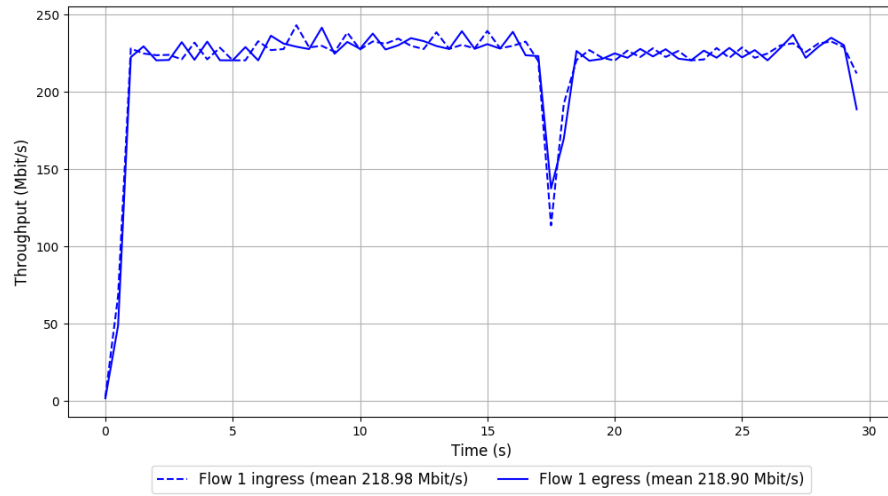
-- Flow 1:

Average throughput: 218.90 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 0.35%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-20 01:55:42

End at: 2018-02-20 01:56:12

Below is generated by plot.py at 2018-02-20 05:53:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.65 Mbit/s

95th percentile per-packet one-way delay: 50.897 ms

Loss rate: 0.35%

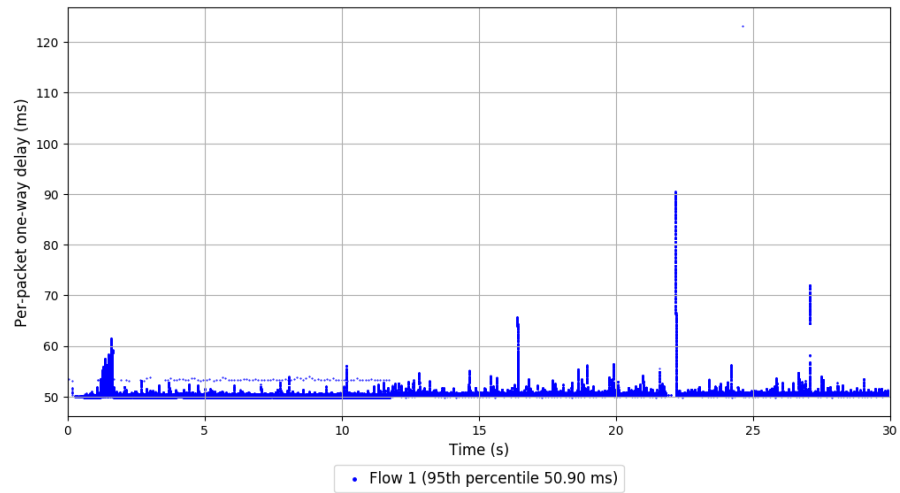
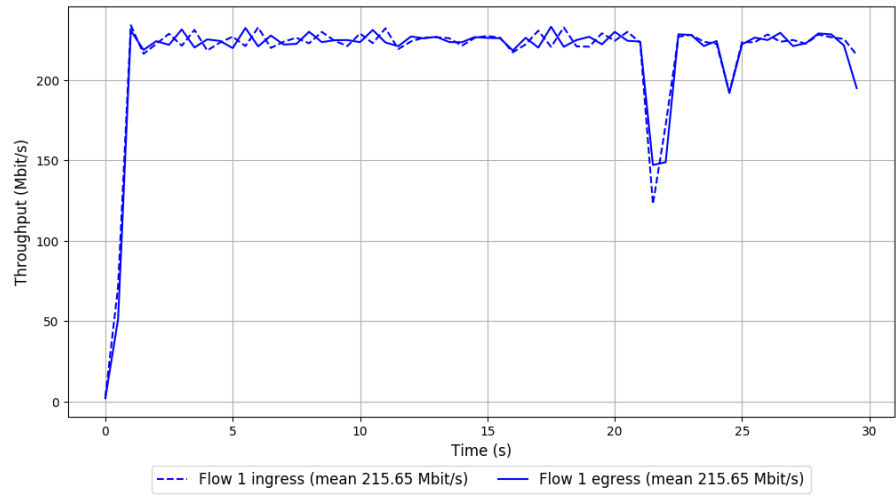
-- Flow 1:

Average throughput: 215.65 Mbit/s

95th percentile per-packet one-way delay: 50.897 ms

Loss rate: 0.35%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-20 02:10:14

End at: 2018-02-20 02:10:44

Below is generated by plot.py at 2018-02-20 05:53:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.40 Mbit/s

95th percentile per-packet one-way delay: 50.348 ms

Loss rate: 0.36%

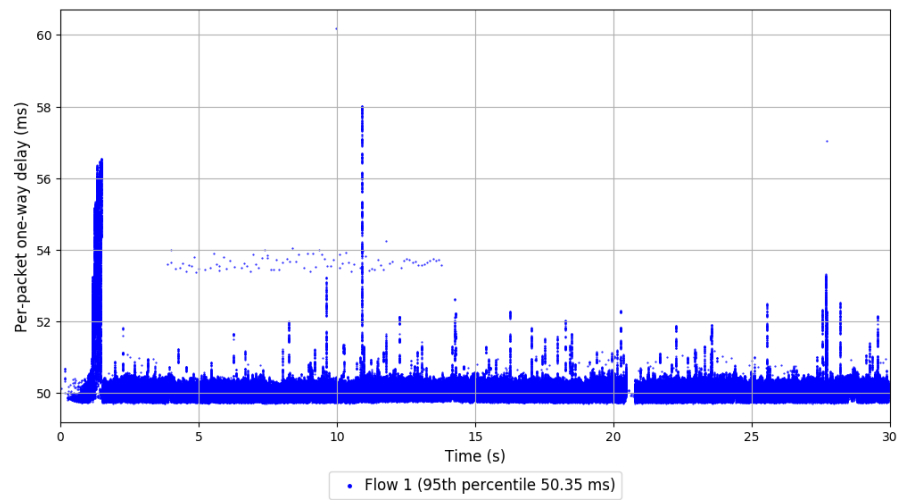
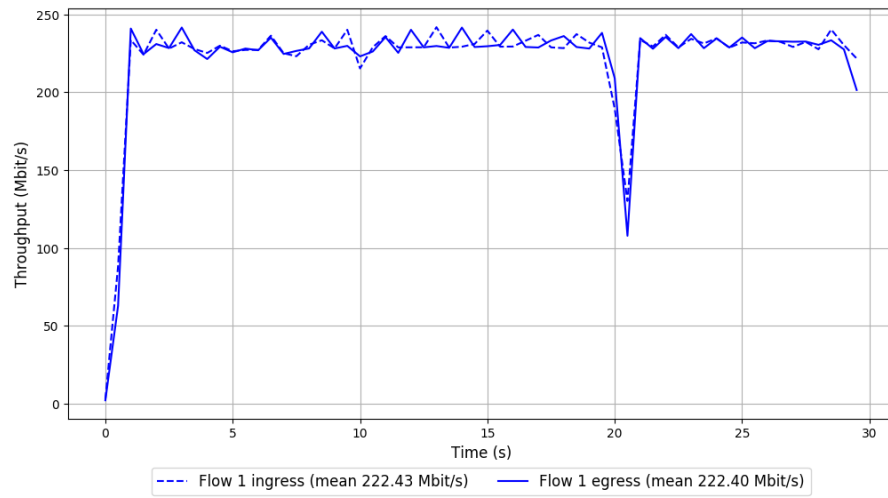
-- Flow 1:

Average throughput: 222.40 Mbit/s

95th percentile per-packet one-way delay: 50.348 ms

Loss rate: 0.36%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-20 02:25:25

End at: 2018-02-20 02:25:55

Below is generated by plot.py at 2018-02-20 05:53:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.76 Mbit/s

95th percentile per-packet one-way delay: 50.359 ms

Loss rate: 0.37%

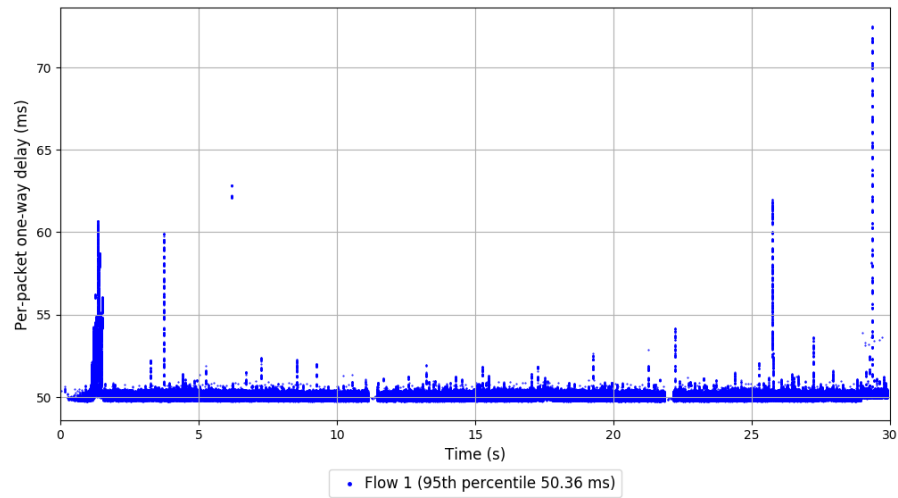
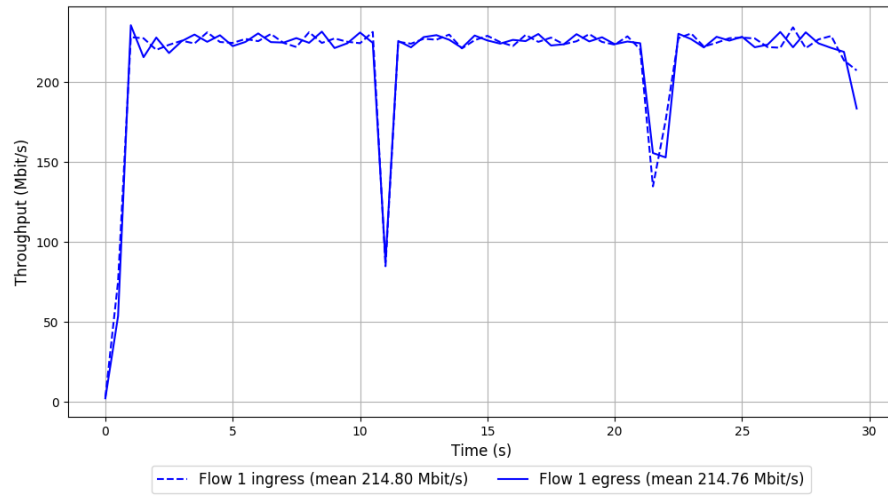
-- Flow 1:

Average throughput: 214.76 Mbit/s

95th percentile per-packet one-way delay: 50.359 ms

Loss rate: 0.37%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-20 02:40:37

End at: 2018-02-20 02:41:07

Below is generated by plot.py at 2018-02-20 05:53:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.43 Mbit/s

95th percentile per-packet one-way delay: 50.570 ms

Loss rate: 0.36%

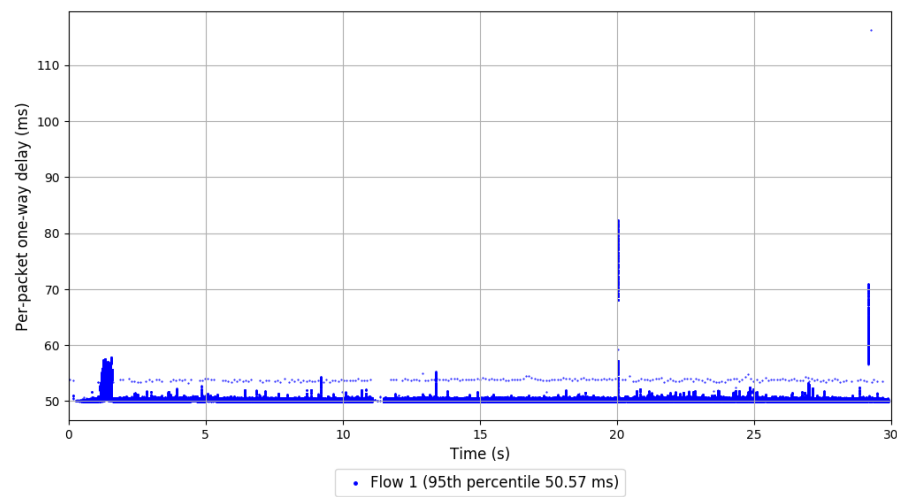
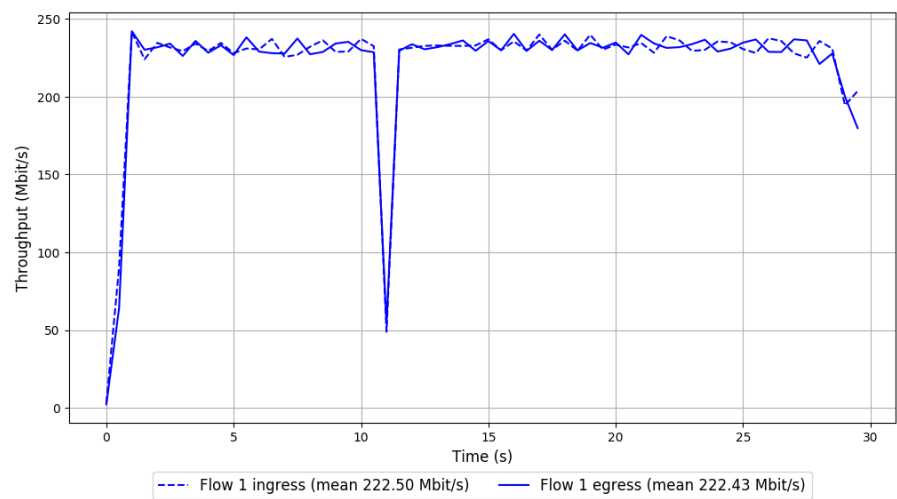
-- Flow 1:

Average throughput: 222.43 Mbit/s

95th percentile per-packet one-way delay: 50.570 ms

Loss rate: 0.36%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-20 02:55:13

End at: 2018-02-20 02:55:43

Below is generated by plot.py at 2018-02-20 05:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.82 Mbit/s

95th percentile per-packet one-way delay: 50.593 ms

Loss rate: 0.37%

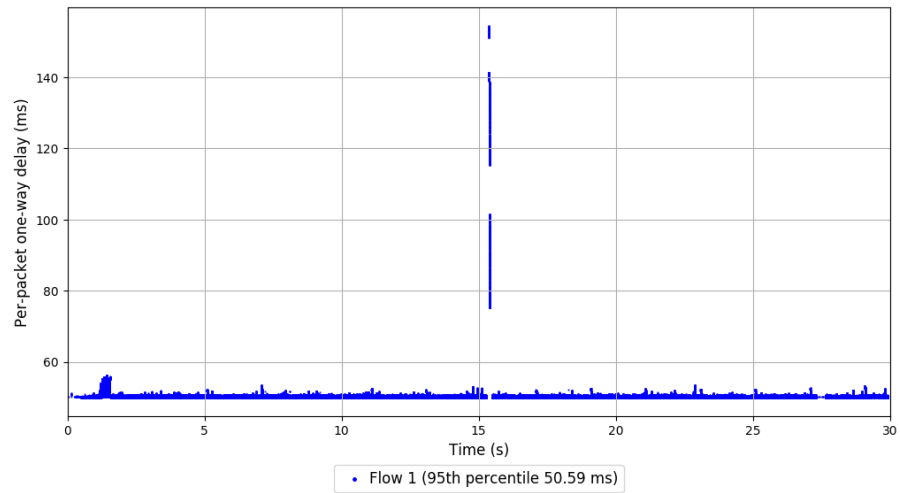
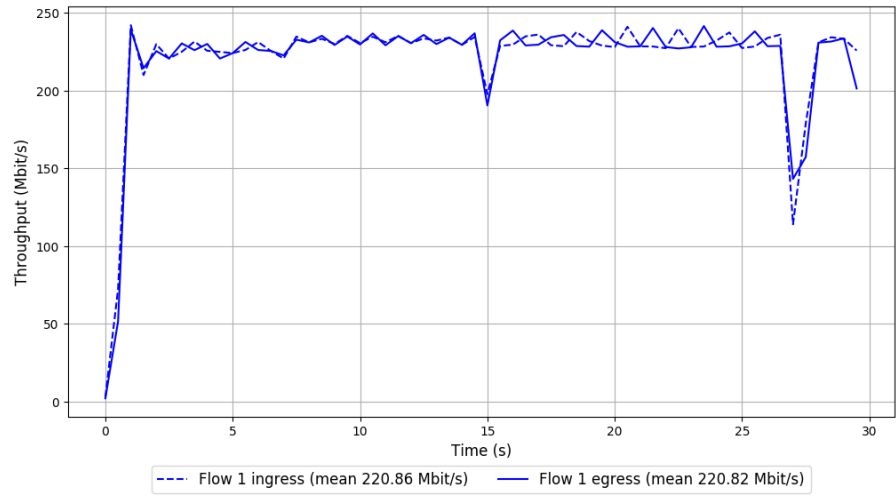
-- Flow 1:

Average throughput: 220.82 Mbit/s

95th percentile per-packet one-way delay: 50.593 ms

Loss rate: 0.37%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-20 03:10:17

End at: 2018-02-20 03:10:47

Below is generated by plot.py at 2018-02-20 05:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.44 Mbit/s

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

Loss rate: 0.38%

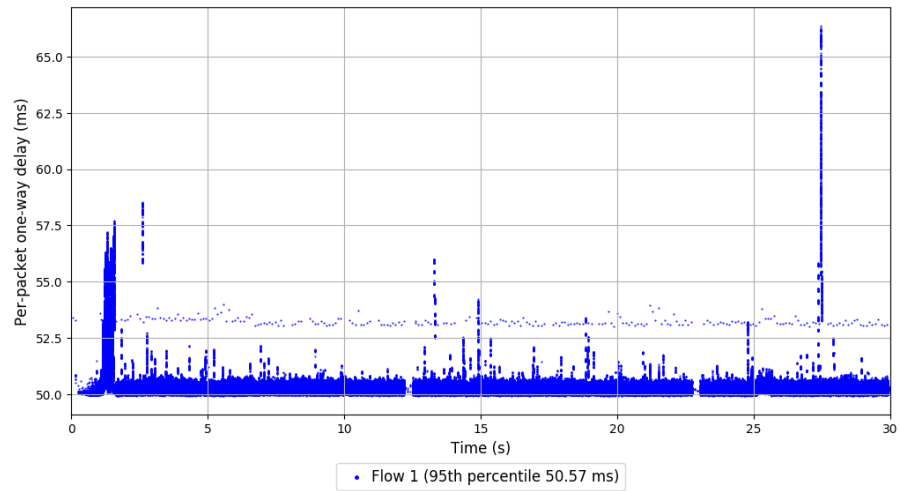
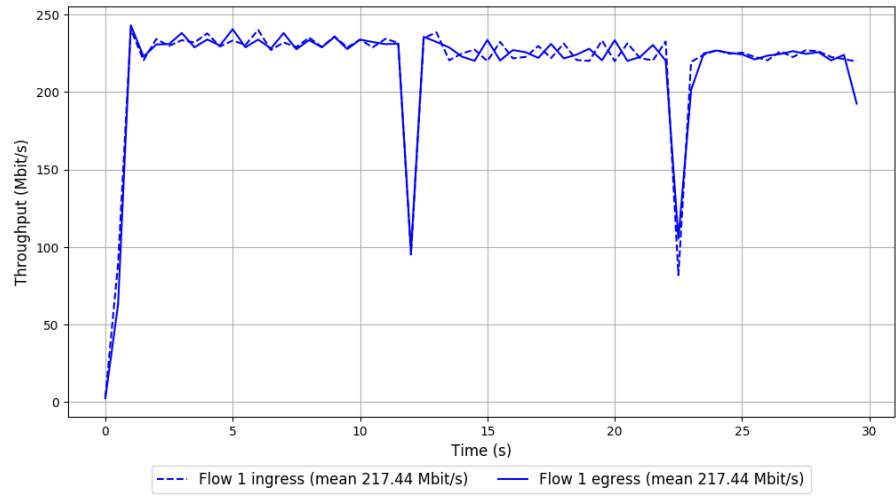
-- Flow 1:

Average throughput: 217.44 Mbit/s

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

Loss rate: 0.38%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-20 01:00:49

End at: 2018-02-20 01:01:19

Below is generated by plot.py at 2018-02-20 05:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.42 Mbit/s

95th percentile per-packet one-way delay: 51.114 ms

Loss rate: 0.43%

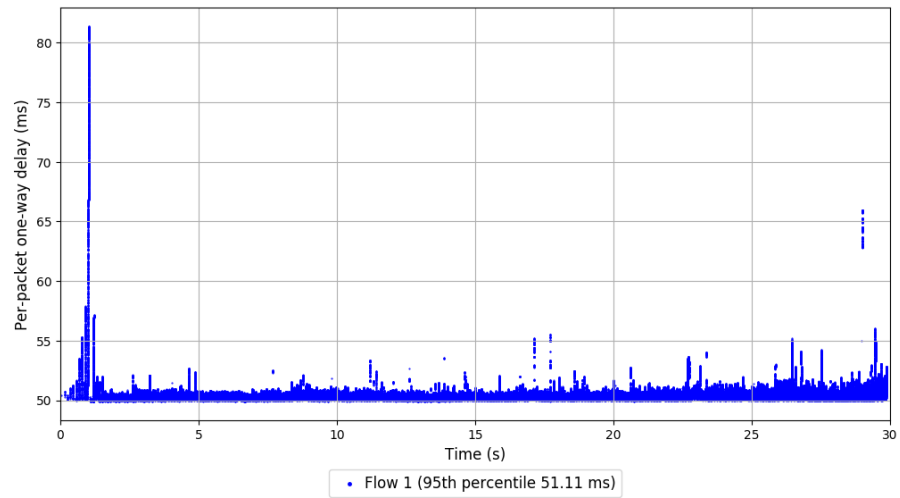
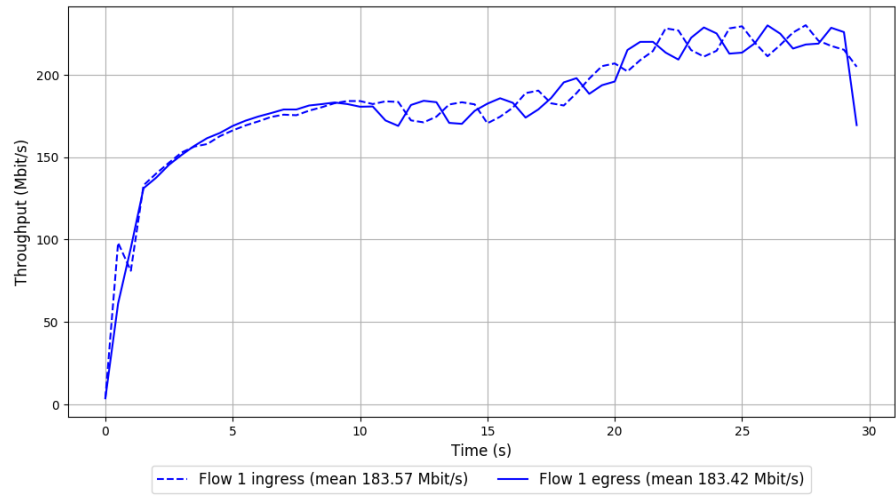
-- Flow 1:

Average throughput: 183.42 Mbit/s

95th percentile per-packet one-way delay: 51.114 ms

Loss rate: 0.43%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-20 01:15:06

End at: 2018-02-20 01:15:36

Below is generated by plot.py at 2018-02-20 05:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.77 Mbit/s

95th percentile per-packet one-way delay: 52.865 ms

Loss rate: 0.47%

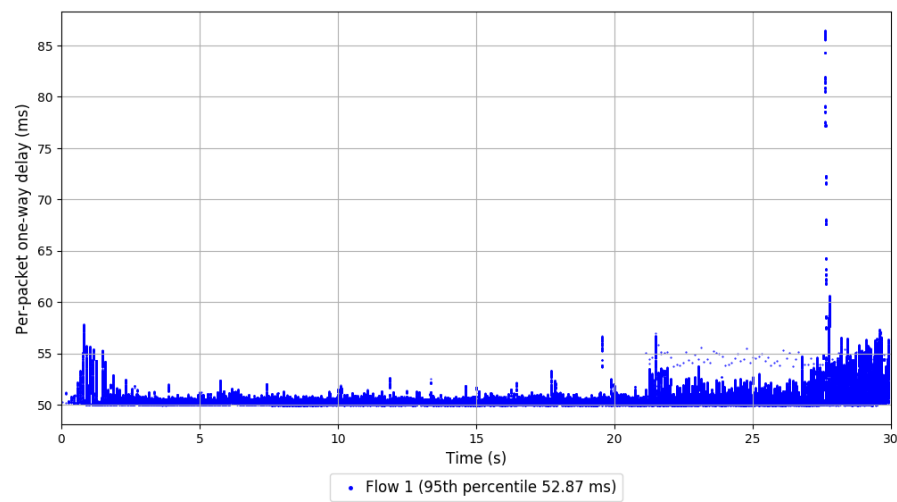
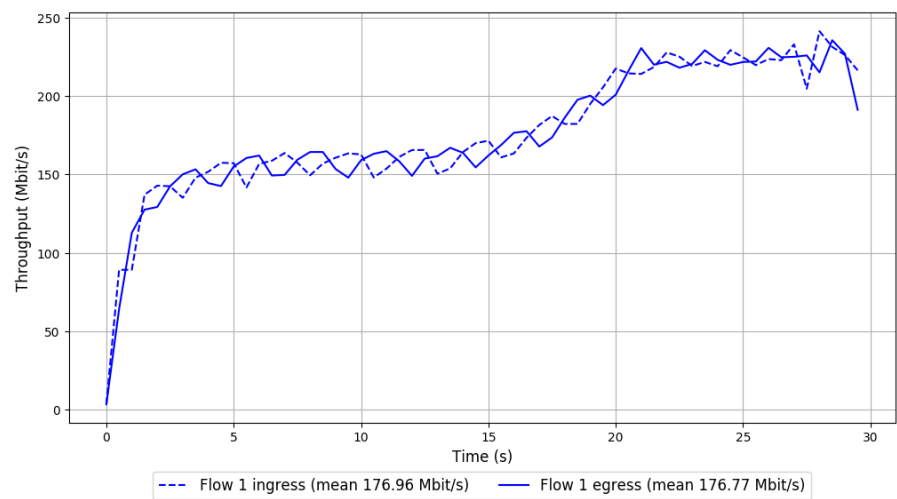
-- Flow 1:

Average throughput: 176.77 Mbit/s

95th percentile per-packet one-way delay: 52.865 ms

Loss rate: 0.47%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-20 01:29:31

End at: 2018-02-20 01:30:01

Below is generated by plot.py at 2018-02-20 05:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.11 Mbit/s

95th percentile per-packet one-way delay: 53.561 ms

Loss rate: 0.31%

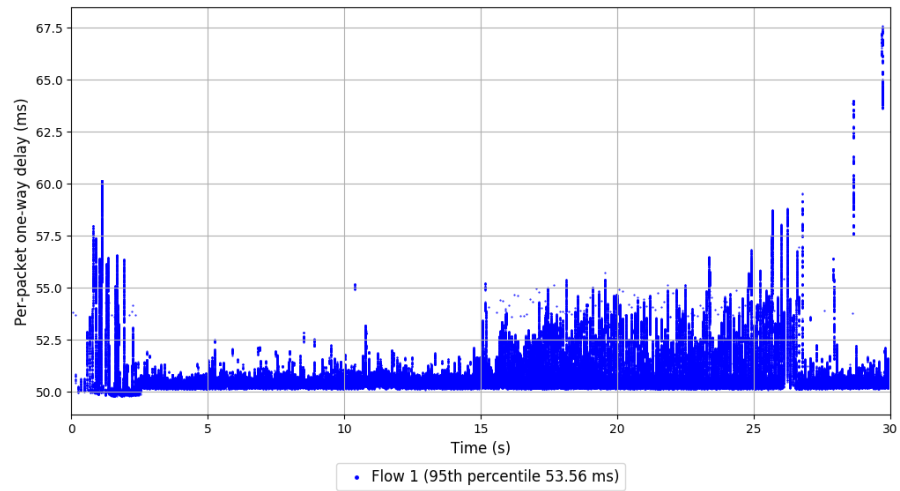
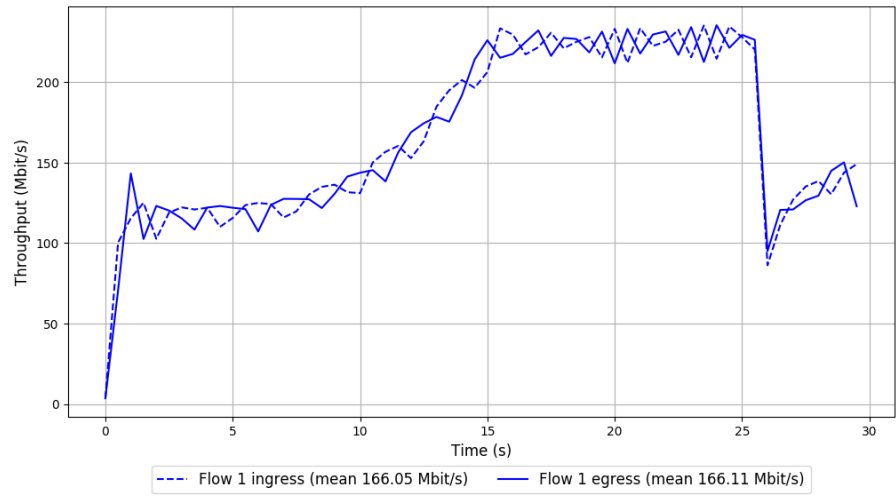
-- Flow 1:

Average throughput: 166.11 Mbit/s

95th percentile per-packet one-way delay: 53.561 ms

Loss rate: 0.31%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-20 01:44:02

End at: 2018-02-20 01:44:32

Below is generated by plot.py at 2018-02-20 05:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.11 Mbit/s

95th percentile per-packet one-way delay: 55.922 ms

Loss rate: 0.38%

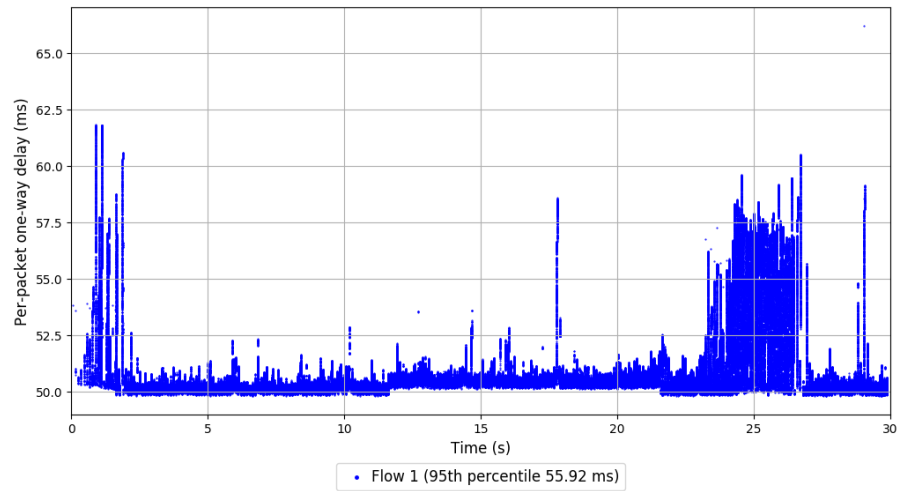
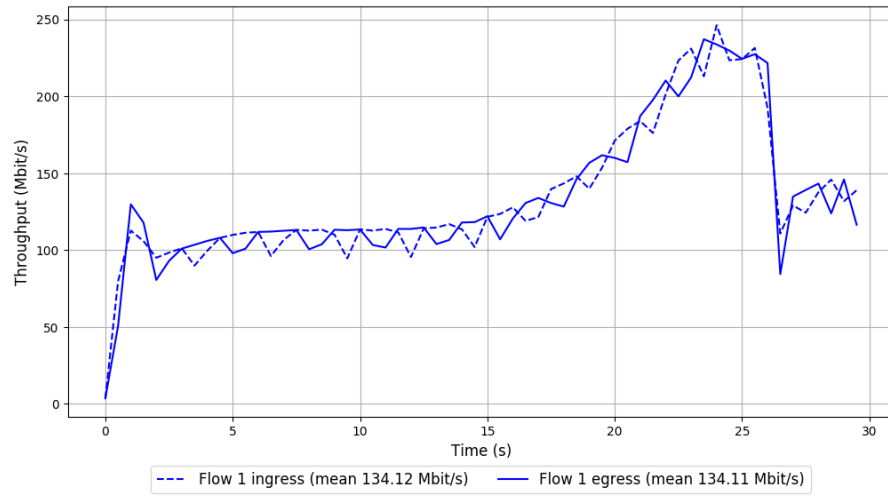
-- Flow 1:

Average throughput: 134.11 Mbit/s

95th percentile per-packet one-way delay: 55.922 ms

Loss rate: 0.38%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-20 01:58:16

End at: 2018-02-20 01:58:46

Below is generated by plot.py at 2018-02-20 05:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.95 Mbit/s

95th percentile per-packet one-way delay: 57.344 ms

Loss rate: 0.50%

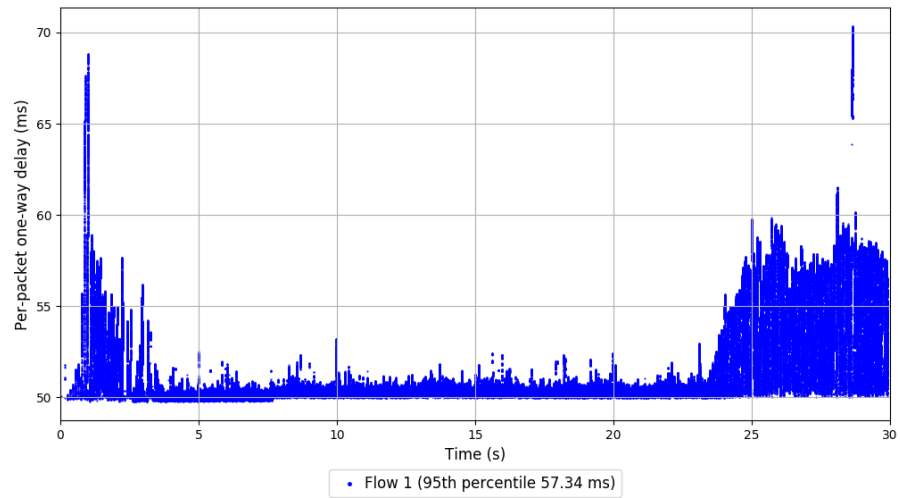
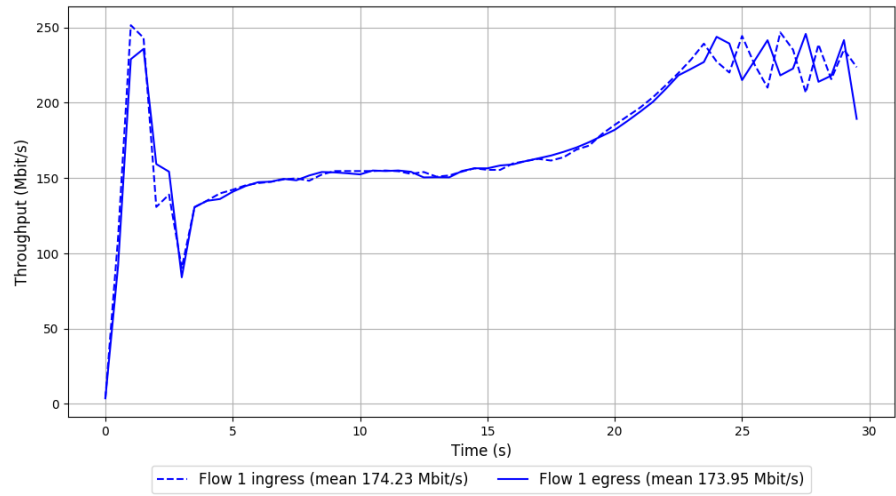
-- Flow 1:

Average throughput: 173.95 Mbit/s

95th percentile per-packet one-way delay: 57.344 ms

Loss rate: 0.50%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-20 02:12:57

End at: 2018-02-20 02:13:27

Below is generated by plot.py at 2018-02-20 05:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.58 Mbit/s

95th percentile per-packet one-way delay: 57.600 ms

Loss rate: 0.30%

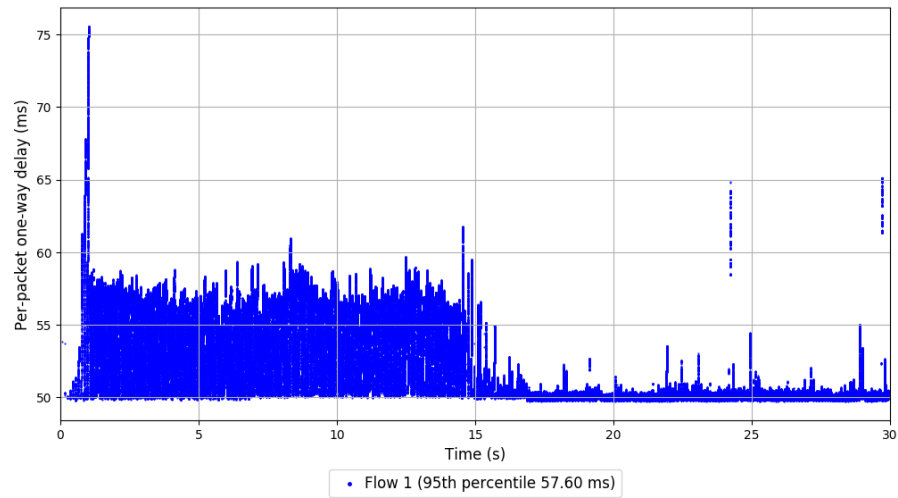
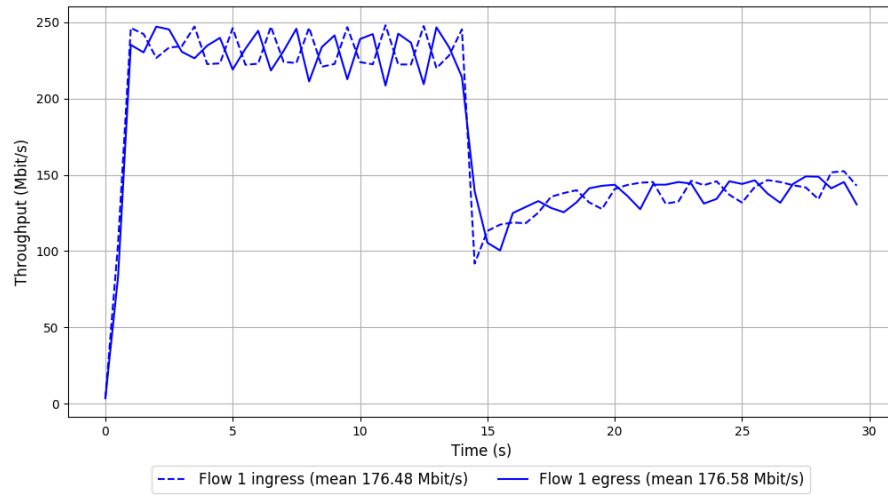
-- Flow 1:

Average throughput: 176.58 Mbit/s

95th percentile per-packet one-way delay: 57.600 ms

Loss rate: 0.30%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-20 02:28:15

End at: 2018-02-20 02:28:45

Below is generated by plot.py at 2018-02-20 05:59:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.97 Mbit/s

95th percentile per-packet one-way delay: 57.686 ms

Loss rate: 0.39%

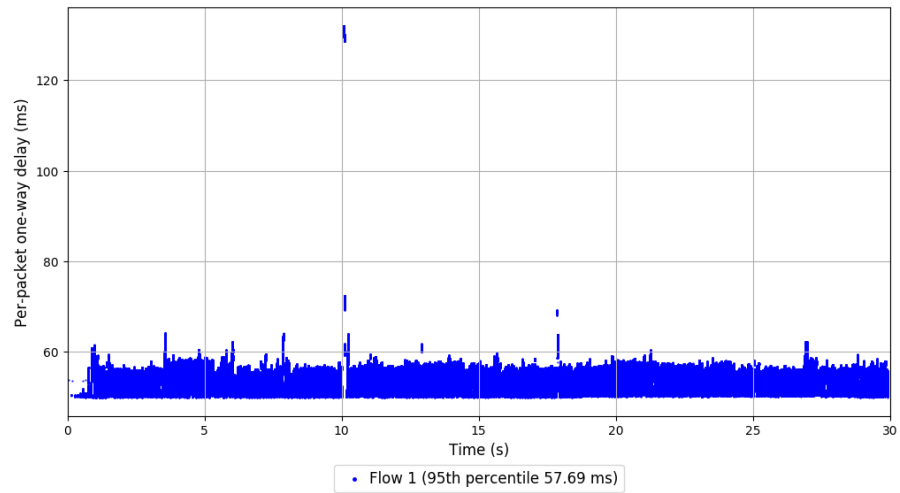
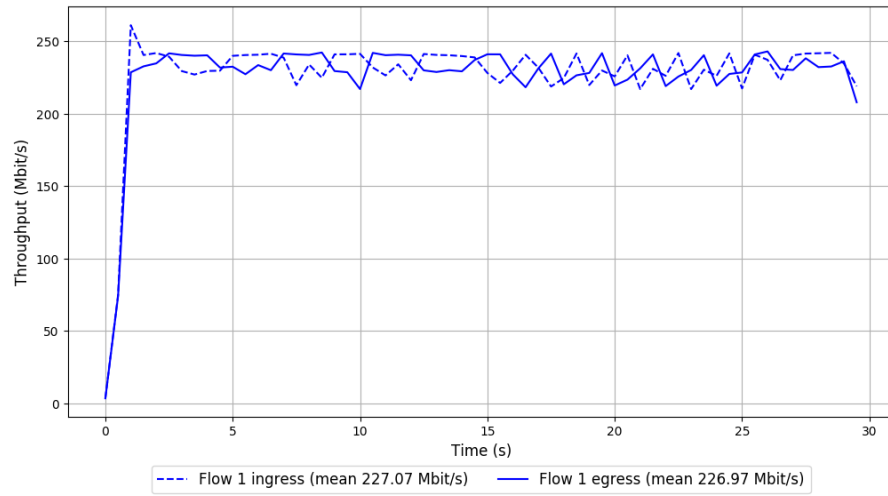
-- Flow 1:

Average throughput: 226.97 Mbit/s

95th percentile per-packet one-way delay: 57.686 ms

Loss rate: 0.39%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-20 02:43:16

End at: 2018-02-20 02:43:46

Below is generated by plot.py at 2018-02-20 05:59:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.26 Mbit/s

95th percentile per-packet one-way delay: 57.706 ms

Loss rate: 0.21%

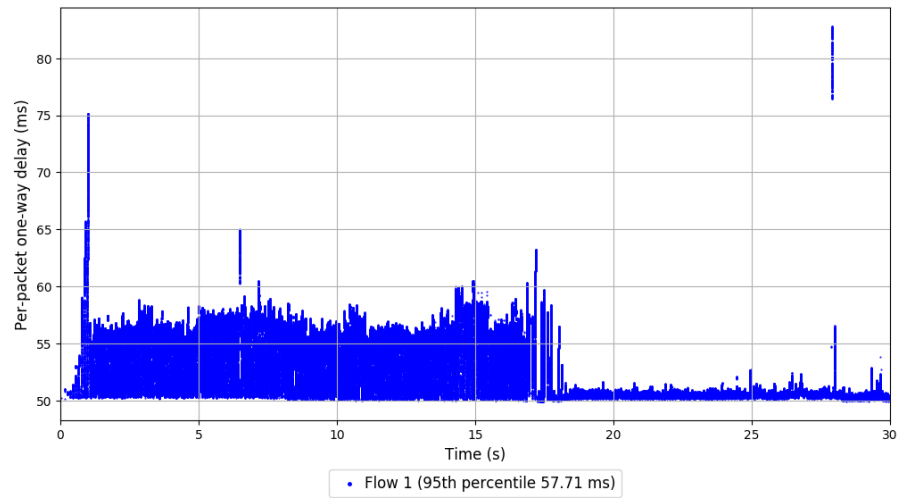
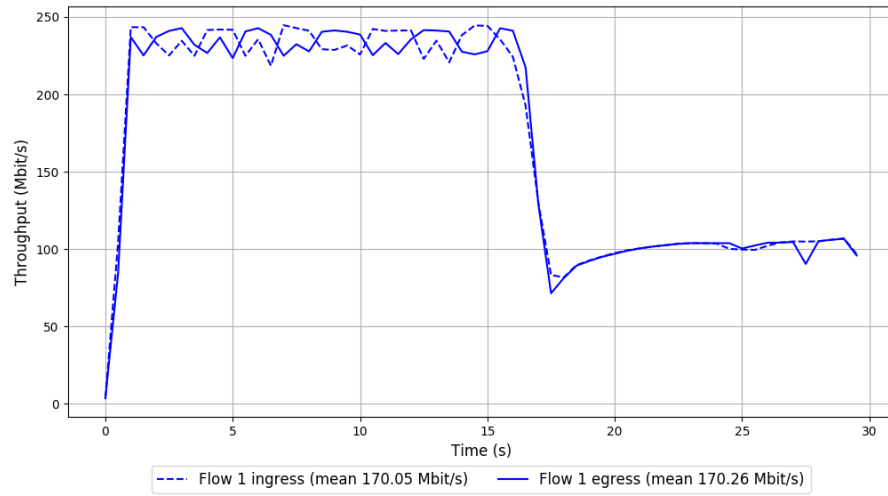
-- Flow 1:

Average throughput: 170.26 Mbit/s

95th percentile per-packet one-way delay: 57.706 ms

Loss rate: 0.21%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-20 02:58:00

End at: 2018-02-20 02:58:30

Below is generated by plot.py at 2018-02-20 05:59:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.33 Mbit/s

95th percentile per-packet one-way delay: 57.642 ms

Loss rate: 0.28%

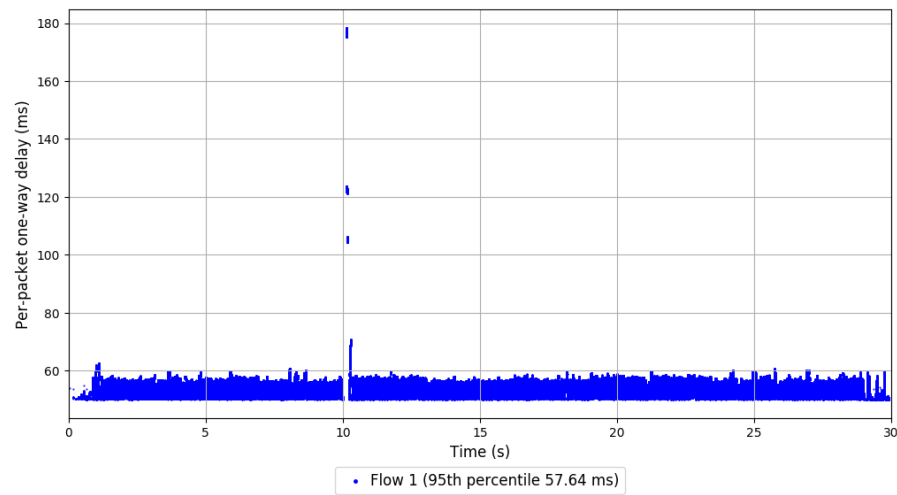
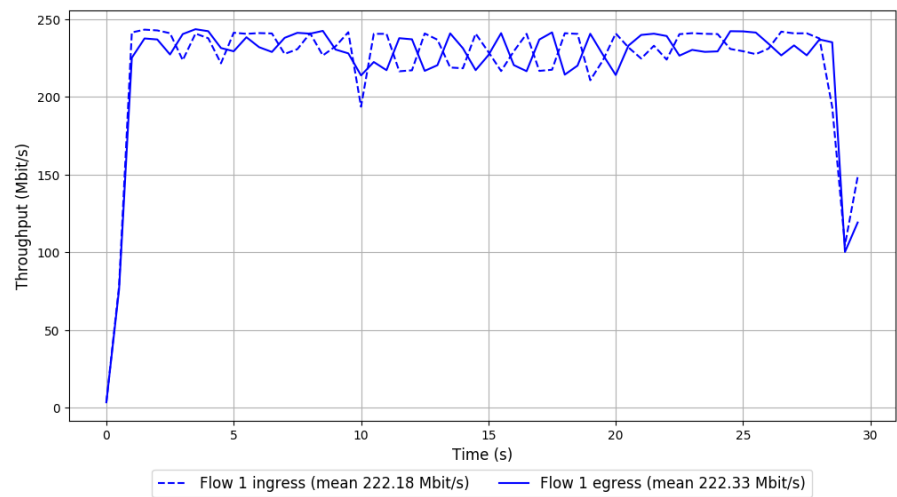
-- Flow 1:

Average throughput: 222.33 Mbit/s

95th percentile per-packet one-way delay: 57.642 ms

Loss rate: 0.28%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-20 03:12:42

End at: 2018-02-20 03:13:12

Below is generated by plot.py at 2018-02-20 05:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.12 Mbit/s

95th percentile per-packet one-way delay: 57.906 ms

Loss rate: 0.36%

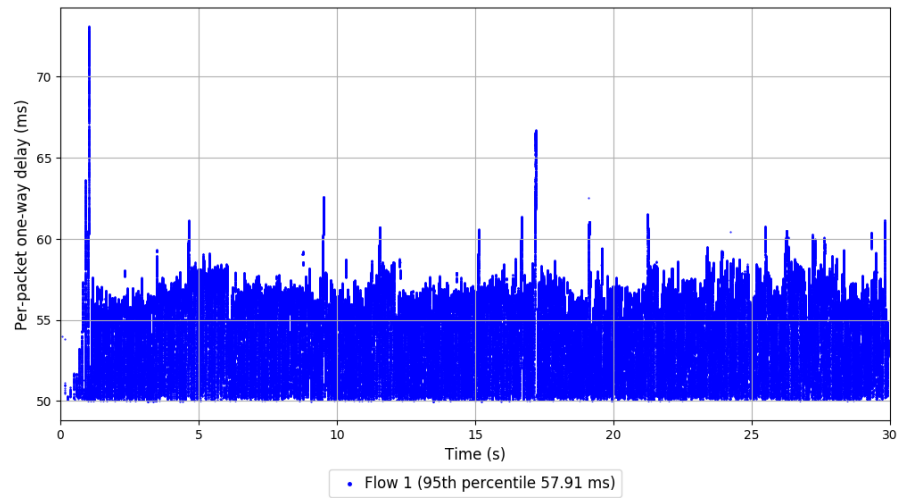
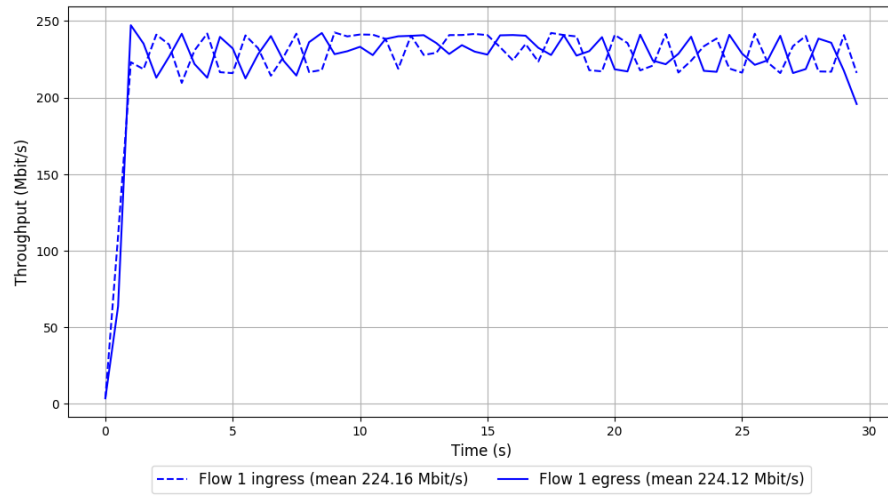
-- Flow 1:

Average throughput: 224.12 Mbit/s

95th percentile per-packet one-way delay: 57.906 ms

Loss rate: 0.36%

Run 10: Report of TCP Cubic — Data Link

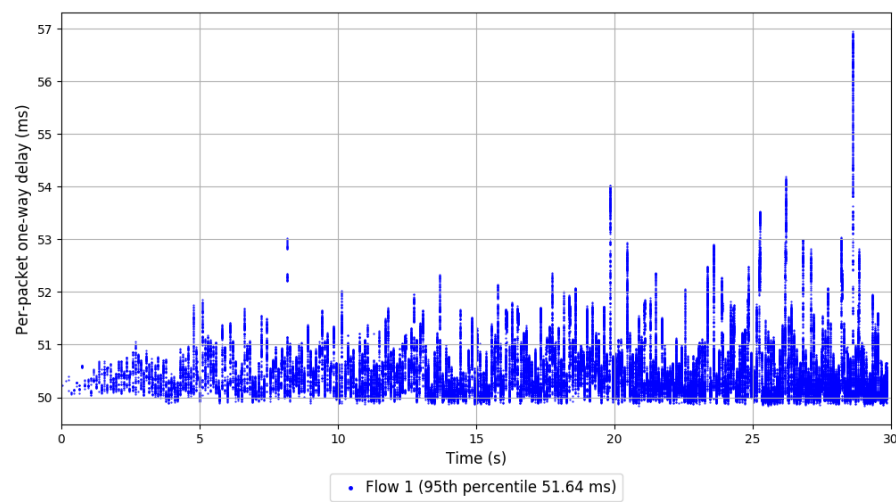
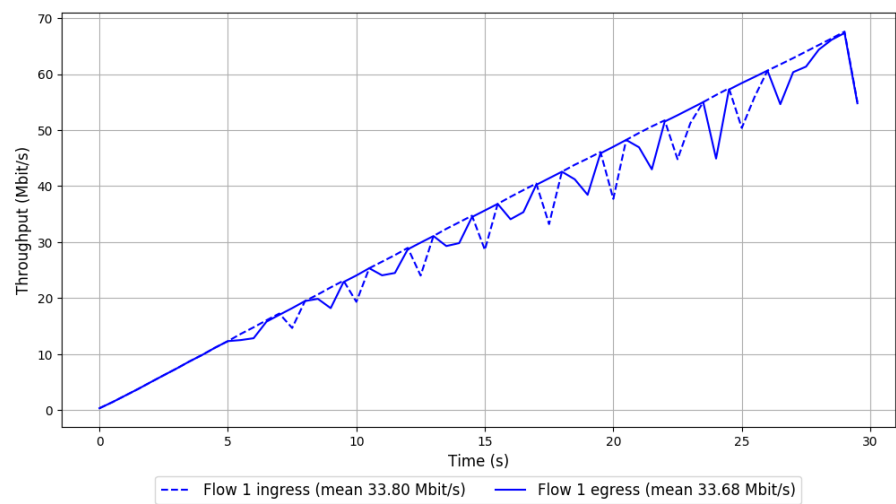


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-20 00:50:04
End at: 2018-02-20 00:50:34

# Below is generated by plot.py at 2018-02-20 05:59:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.68 Mbit/s
95th percentile per-packet one-way delay: 51.644 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 33.68 Mbit/s
95th percentile per-packet one-way delay: 51.644 ms
Loss rate: 0.68%
```


Run 1: Report of LEDBAT — Data Link

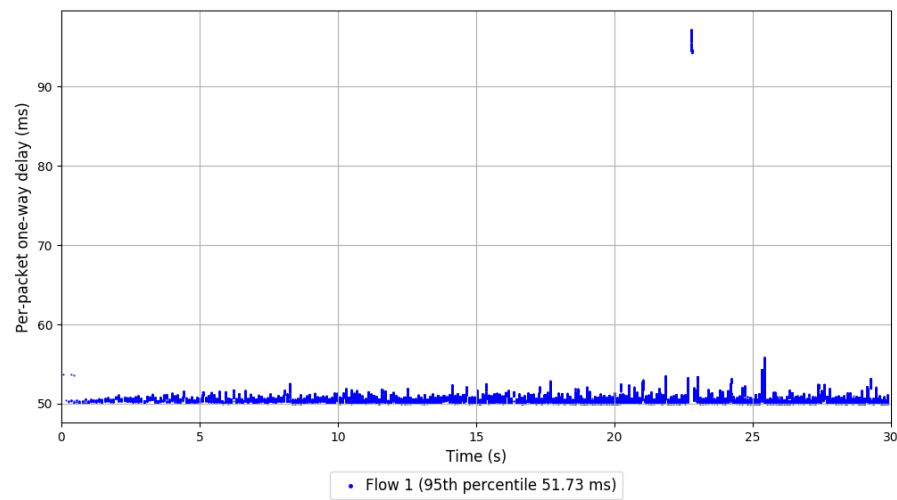
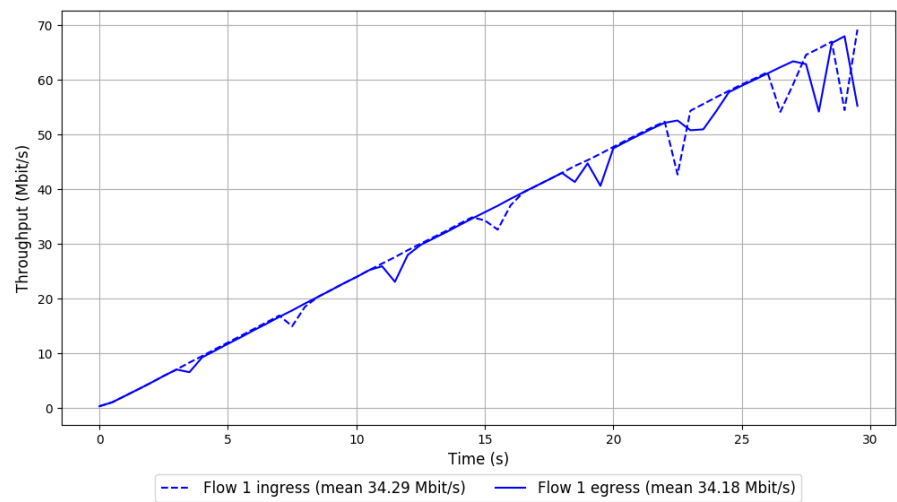


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-20 01:04:44
End at: 2018-02-20 01:05:14

# Below is generated by plot.py at 2018-02-20 05:59:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.18 Mbit/s
95th percentile per-packet one-way delay: 51.728 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.18 Mbit/s
95th percentile per-packet one-way delay: 51.728 ms
Loss rate: 0.68%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-20 01:19:02

End at: 2018-02-20 01:19:32

Below is generated by plot.py at 2018-02-20 05:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 52.017 ms

Loss rate: 0.68%

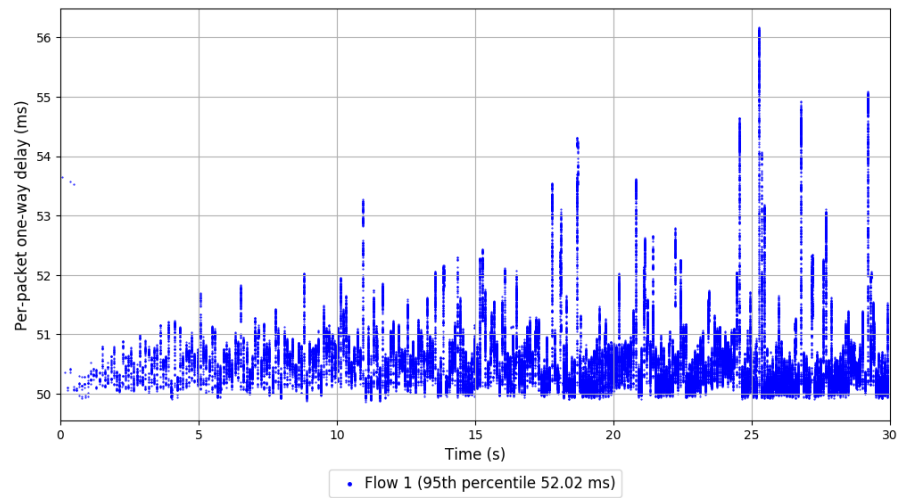
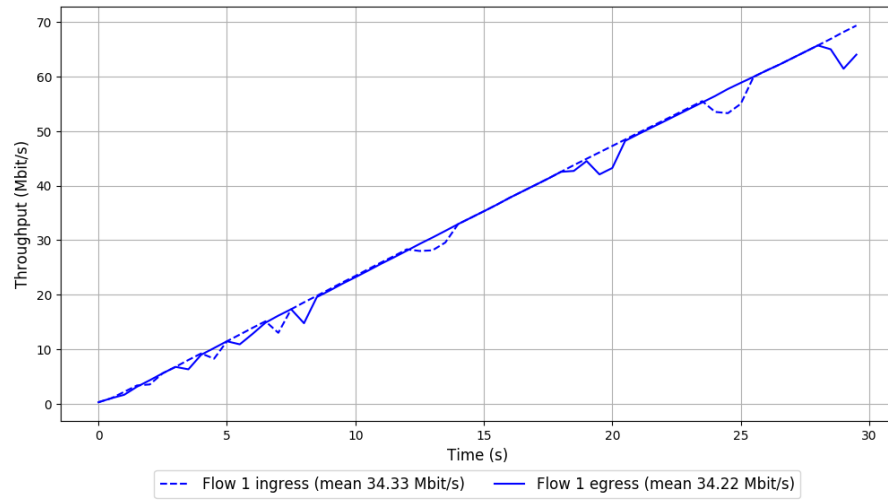
-- Flow 1:

Average throughput: 34.22 Mbit/s

95th percentile per-packet one-way delay: 52.017 ms

Loss rate: 0.68%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-20 01:33:27

End at: 2018-02-20 01:33:57

Below is generated by plot.py at 2018-02-20 05:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 51.766 ms

Loss rate: 0.68%

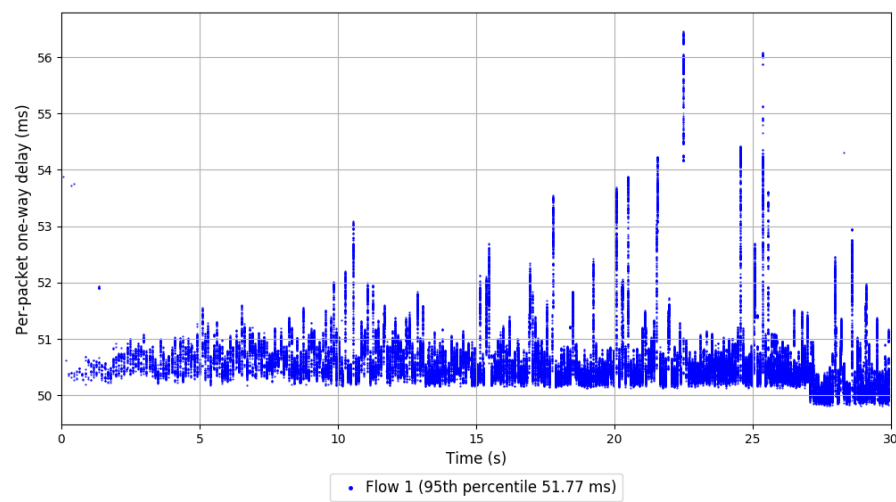
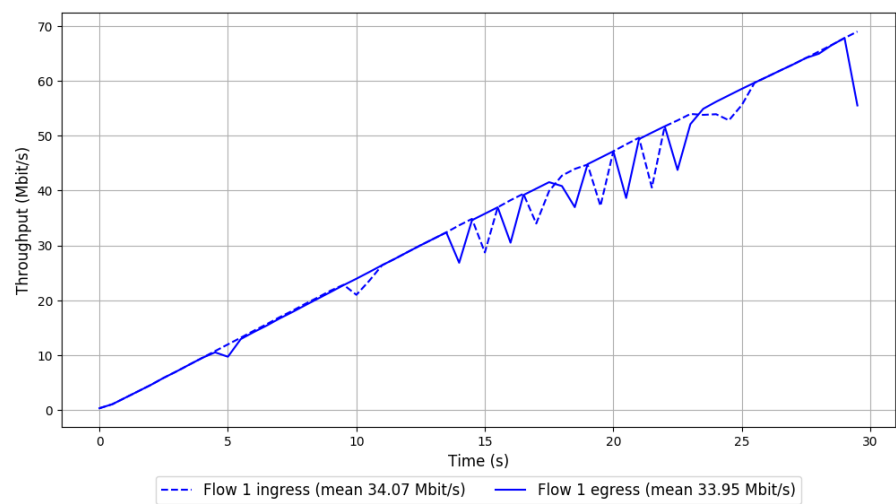
-- Flow 1:

Average throughput: 33.95 Mbit/s

95th percentile per-packet one-way delay: 51.766 ms

Loss rate: 0.68%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-20 01:47:56

End at: 2018-02-20 01:48:26

Below is generated by plot.py at 2018-02-20 05:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 52.025 ms

Loss rate: 0.70%

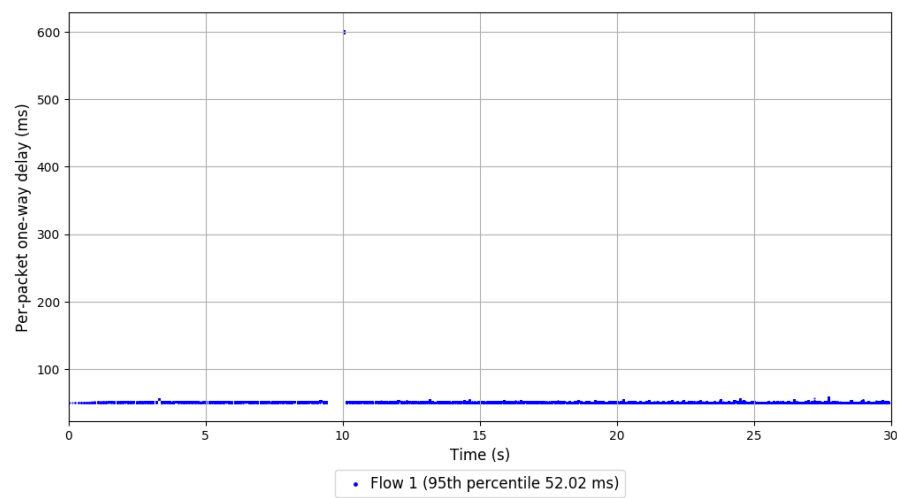
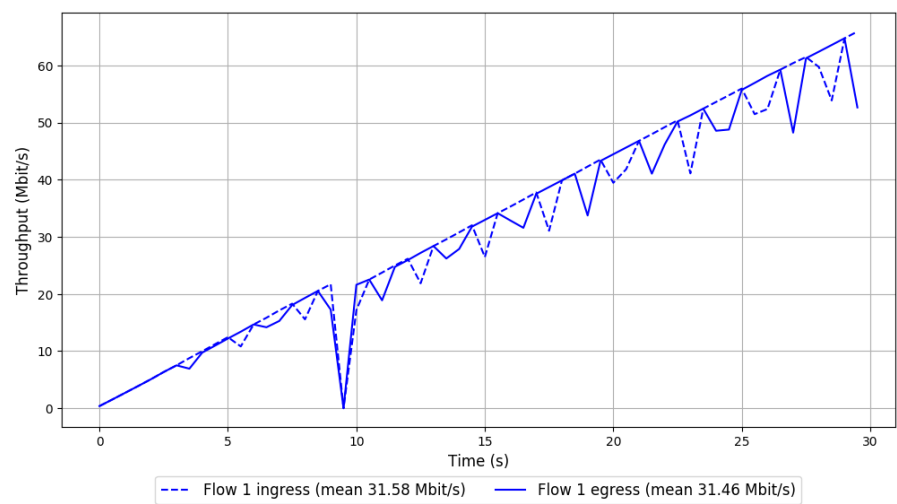
-- Flow 1:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 52.025 ms

Loss rate: 0.70%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-20 02:02:13

End at: 2018-02-20 02:02:43

Below is generated by plot.py at 2018-02-20 05:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 50.906 ms

Loss rate: 0.67%

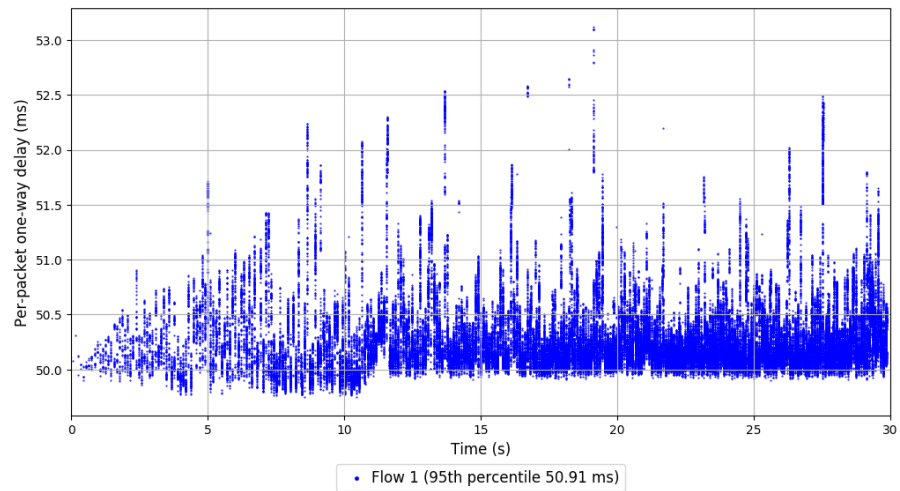
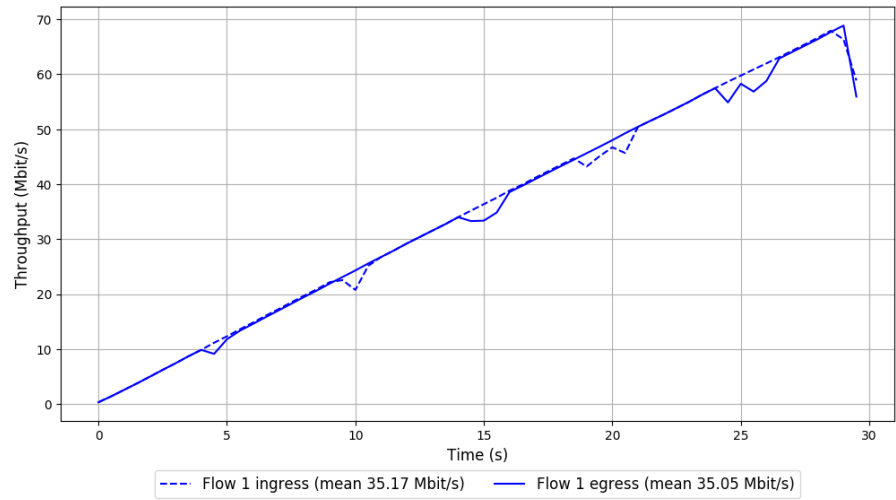
-- Flow 1:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 50.906 ms

Loss rate: 0.67%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-20 02:16:56

End at: 2018-02-20 02:17:26

Below is generated by plot.py at 2018-02-20 05:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 51.969 ms

Loss rate: 0.68%

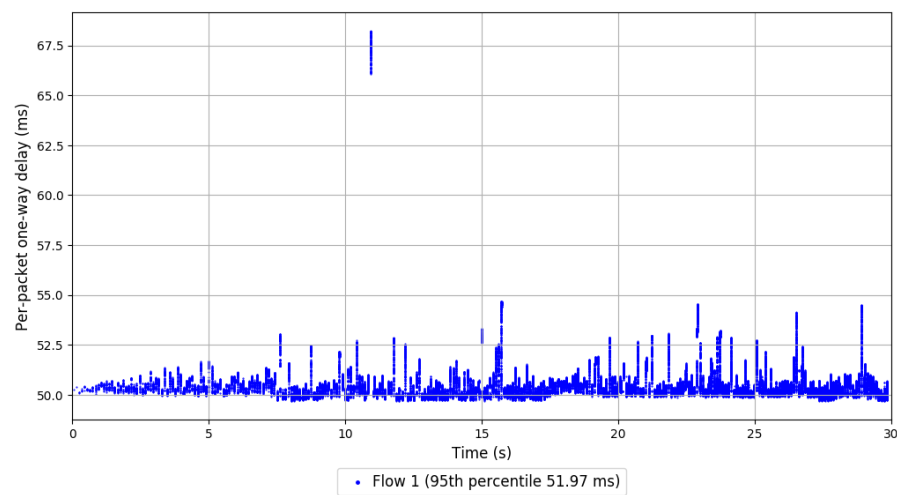
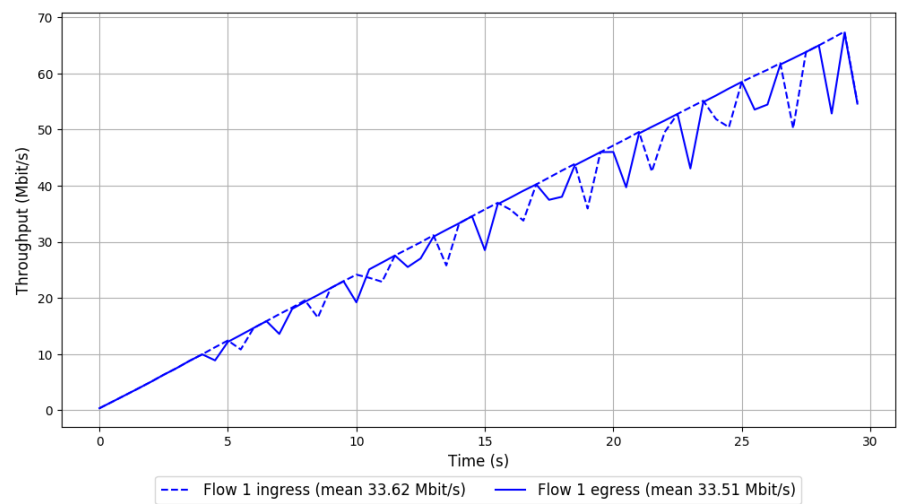
-- Flow 1:

Average throughput: 33.51 Mbit/s

95th percentile per-packet one-way delay: 51.969 ms

Loss rate: 0.68%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-20 02:32:16

End at: 2018-02-20 02:32:46

Below is generated by plot.py at 2018-02-20 05:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.79 Mbit/s

95th percentile per-packet one-way delay: 51.959 ms

Loss rate: 0.69%

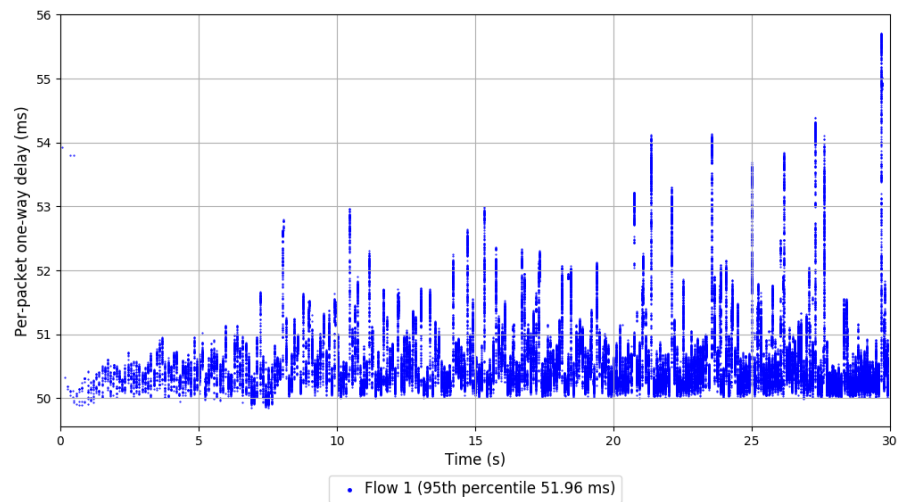
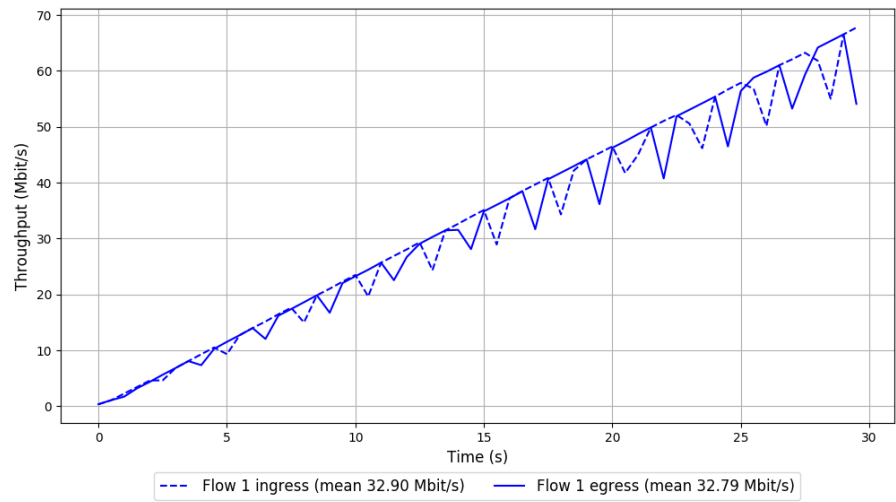
-- Flow 1:

Average throughput: 32.79 Mbit/s

95th percentile per-packet one-way delay: 51.959 ms

Loss rate: 0.69%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-20 02:47:13

End at: 2018-02-20 02:47:43

Below is generated by plot.py at 2018-02-20 05:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 51.871 ms

Loss rate: 0.69%

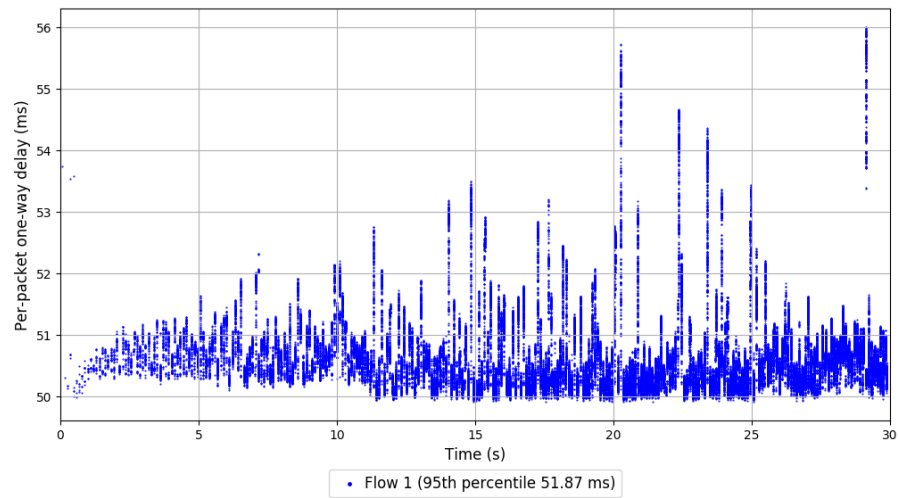
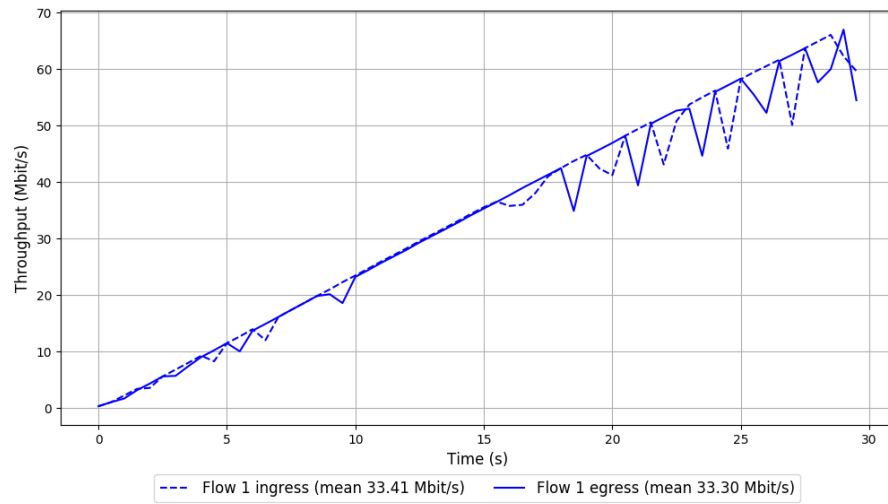
-- Flow 1:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 51.871 ms

Loss rate: 0.69%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

End at: 2018-02-20 03:02:30

Below is generated by plot.py at 2018-02-20 05:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.06 Mbit/s

95th percentile per-packet one-way delay: 51.331 ms

Loss rate: 0.69%

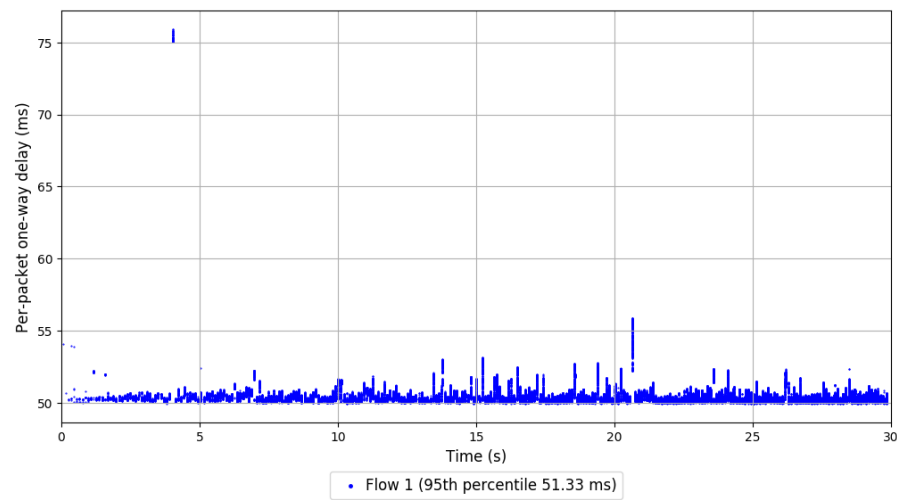
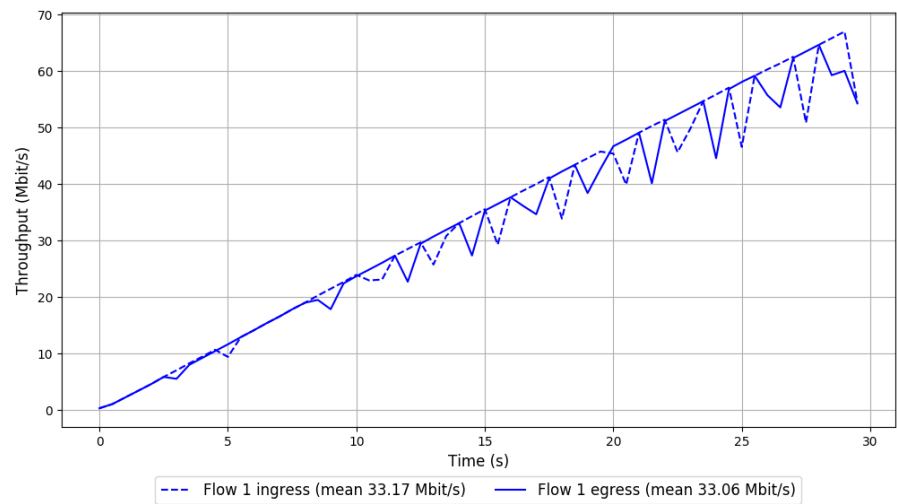
-- Flow 1:

Average throughput: 33.06 Mbit/s

95th percentile per-packet one-way delay: 51.331 ms

Loss rate: 0.69%

Run 10: Report of LEDBAT — Data Link

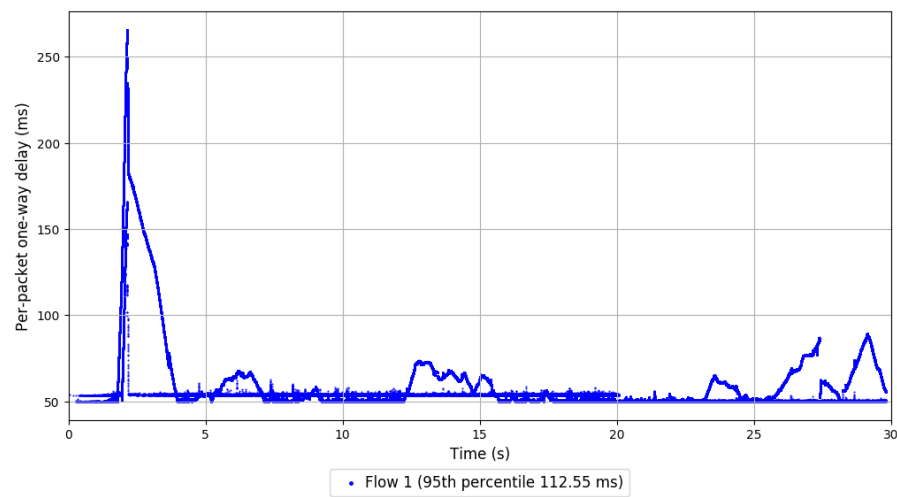
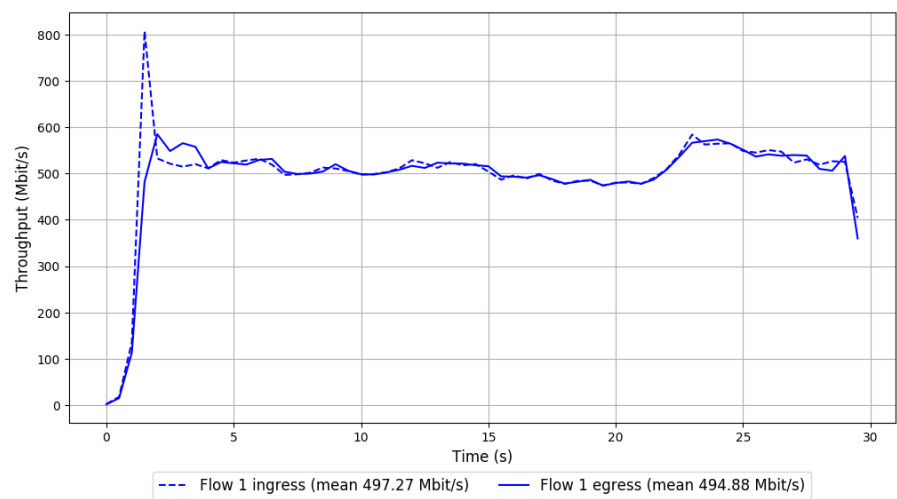


```
Run 1: Statistics of PCC

Start at: 2018-02-20 00:52:24
End at: 2018-02-20 00:52:54

# Below is generated by plot.py at 2018-02-20 06:07:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 494.88 Mbit/s
95th percentile per-packet one-way delay: 112.546 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 494.88 Mbit/s
95th percentile per-packet one-way delay: 112.546 ms
Loss rate: 0.84%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-20 01:07:01

End at: 2018-02-20 01:07:31

Below is generated by plot.py at 2018-02-20 06:07:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.53 Mbit/s

95th percentile per-packet one-way delay: 195.764 ms

Loss rate: 1.67%

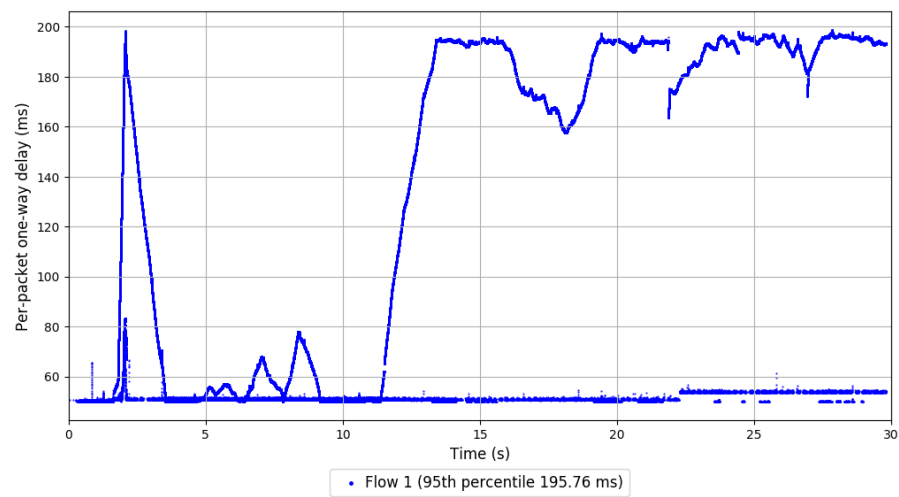
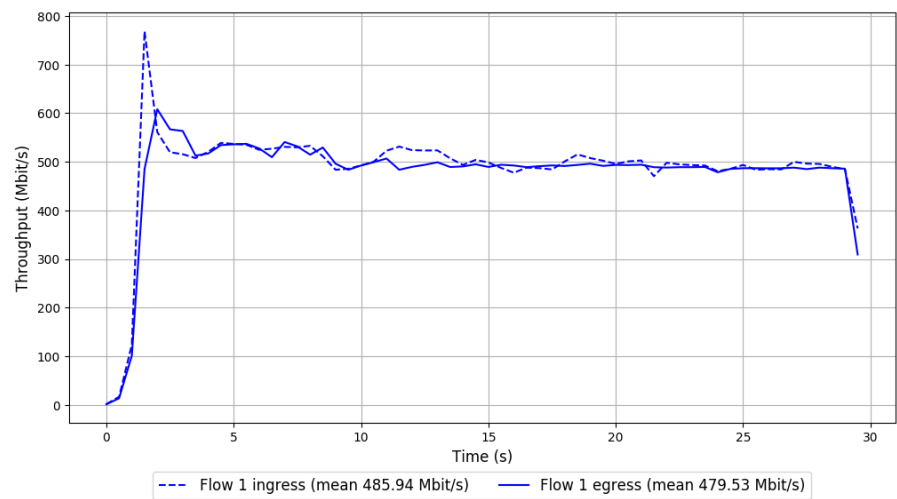
-- Flow 1:

Average throughput: 479.53 Mbit/s

95th percentile per-packet one-way delay: 195.764 ms

Loss rate: 1.67%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-20 01:21:22

End at: 2018-02-20 01:21:52

Below is generated by plot.py at 2018-02-20 06:07:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.28 Mbit/s

95th percentile per-packet one-way delay: 107.788 ms

Loss rate: 0.38%

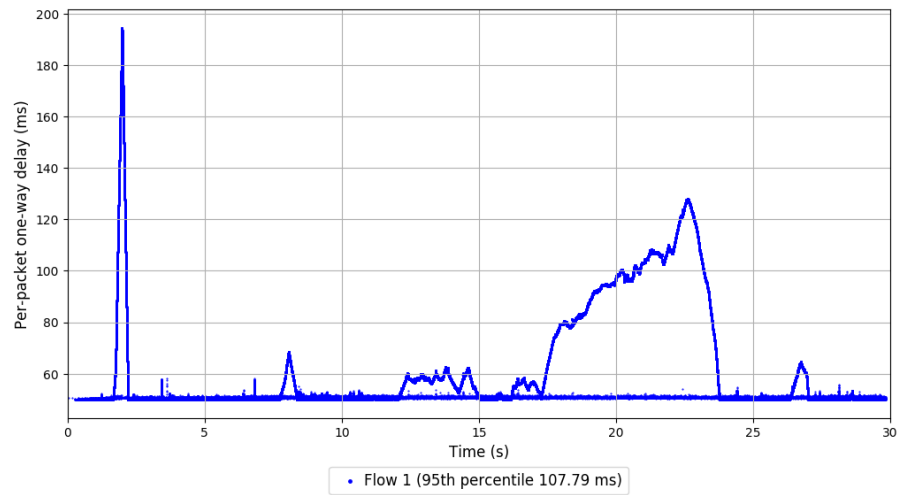
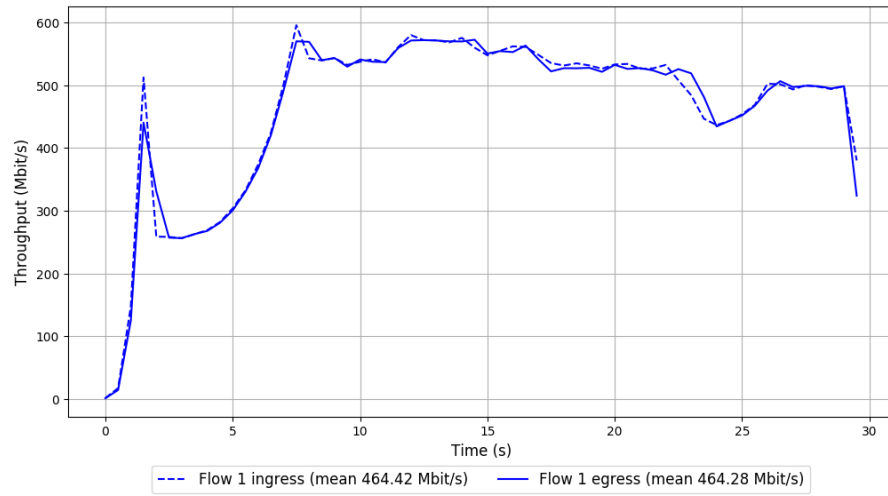
-- Flow 1:

Average throughput: 464.28 Mbit/s

95th percentile per-packet one-way delay: 107.788 ms

Loss rate: 0.38%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-20 01:35:41

End at: 2018-02-20 01:36:11

Below is generated by plot.py at 2018-02-20 06:07:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 449.15 Mbit/s

95th percentile per-packet one-way delay: 151.974 ms

Loss rate: 0.42%

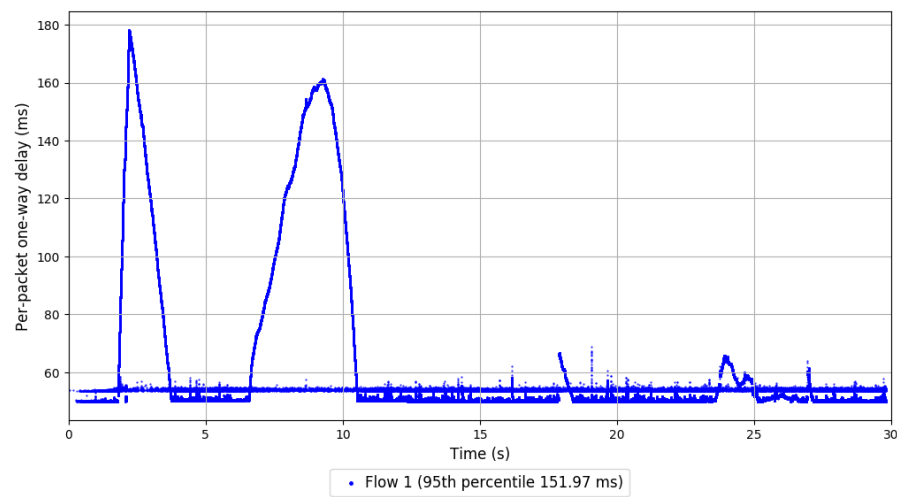
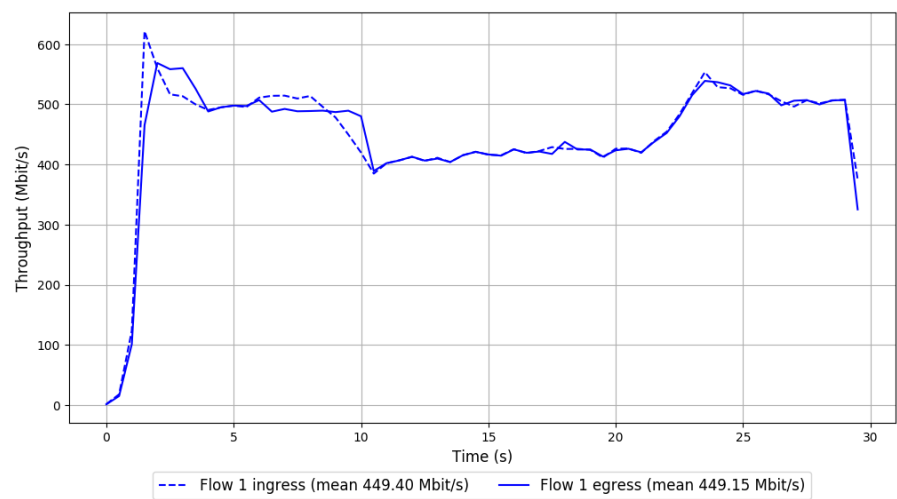
-- Flow 1:

Average throughput: 449.15 Mbit/s

95th percentile per-packet one-way delay: 151.974 ms

Loss rate: 0.42%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-20 01:50:17

End at: 2018-02-20 01:50:47

Below is generated by plot.py at 2018-02-20 06:08:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 497.91 Mbit/s

95th percentile per-packet one-way delay: 192.474 ms

Loss rate: 3.27%

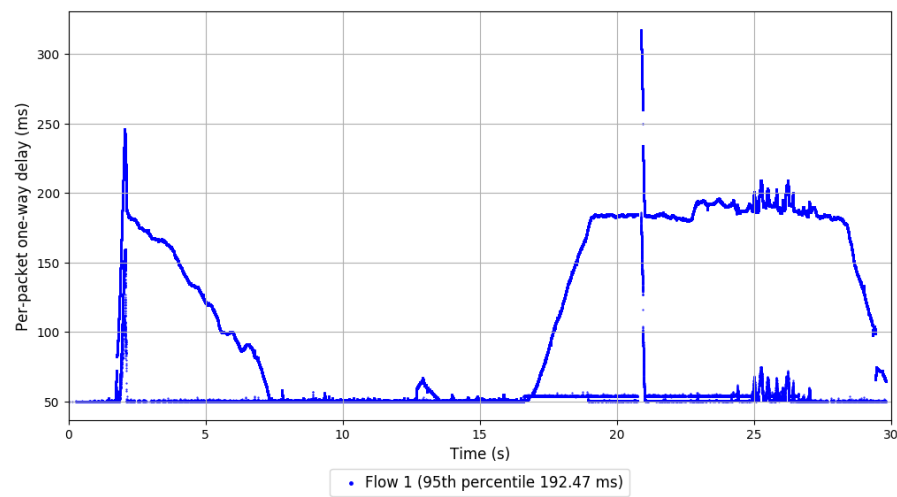
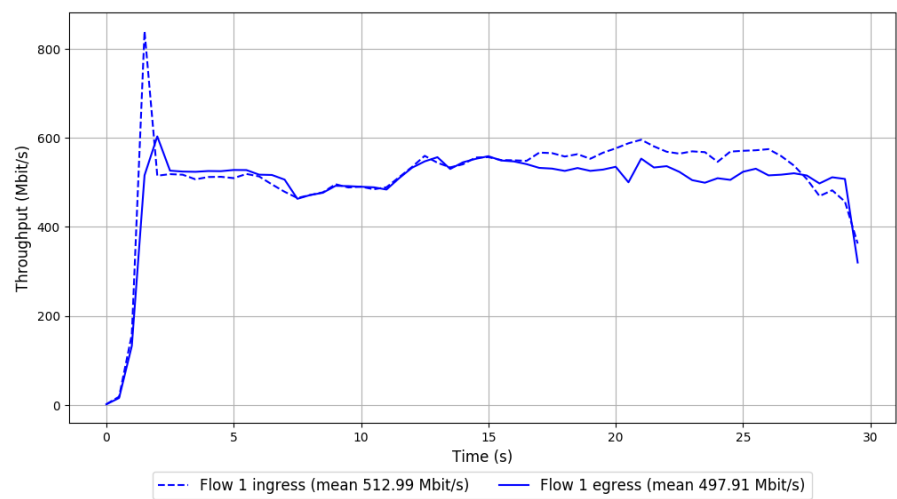
-- Flow 1:

Average throughput: 497.91 Mbit/s

95th percentile per-packet one-way delay: 192.474 ms

Loss rate: 3.27%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-20 02:04:35

End at: 2018-02-20 02:05:05

Below is generated by plot.py at 2018-02-20 06:08:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 418.84 Mbit/s

95th percentile per-packet one-way delay: 209.654 ms

Loss rate: 1.30%

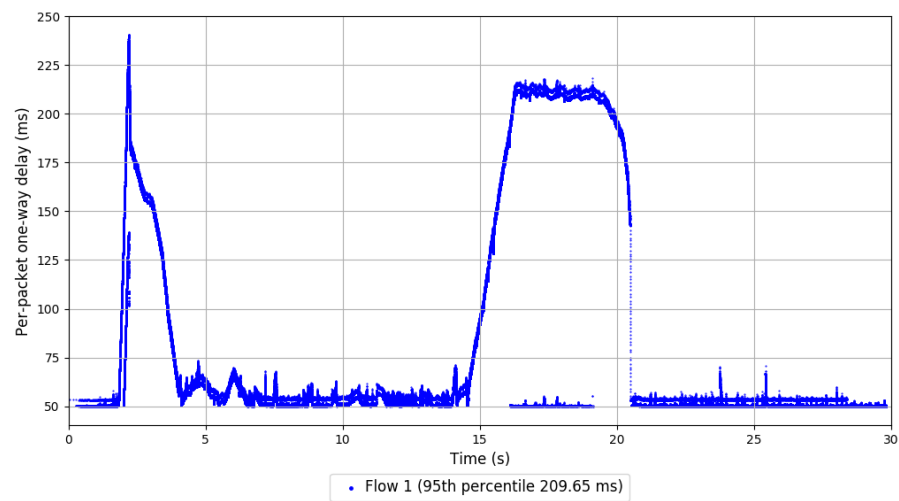
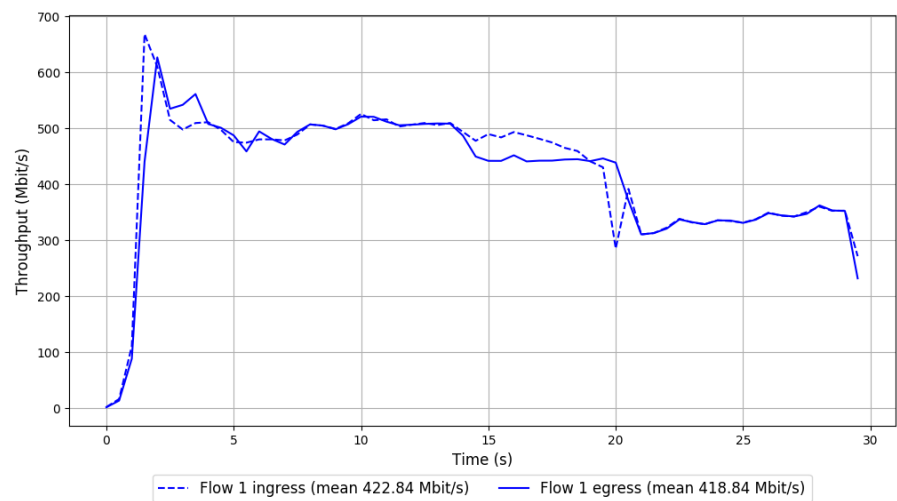
-- Flow 1:

Average throughput: 418.84 Mbit/s

95th percentile per-packet one-way delay: 209.654 ms

Loss rate: 1.30%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-20 02:19:20

End at: 2018-02-20 02:19:50

Below is generated by plot.py at 2018-02-20 06:08:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.03 Mbit/s

95th percentile per-packet one-way delay: 113.943 ms

Loss rate: 0.70%

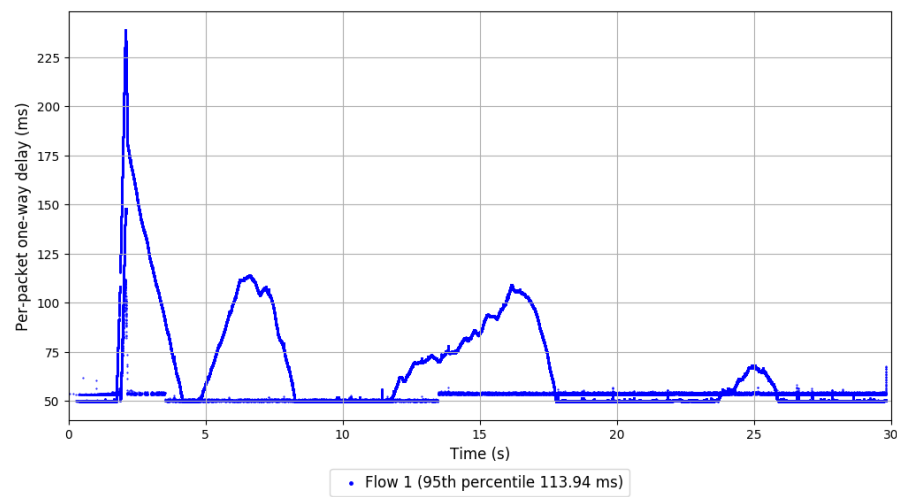
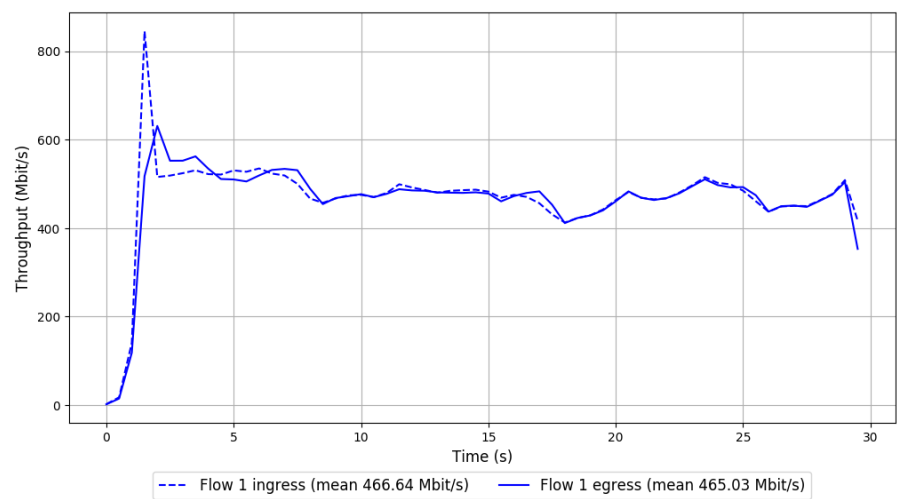
-- Flow 1:

Average throughput: 465.03 Mbit/s

95th percentile per-packet one-way delay: 113.943 ms

Loss rate: 0.70%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-20 02:34:40

End at: 2018-02-20 02:35:10

Below is generated by plot.py at 2018-02-20 06:09:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 481.36 Mbit/s

95th percentile per-packet one-way delay: 211.672 ms

Loss rate: 2.69%

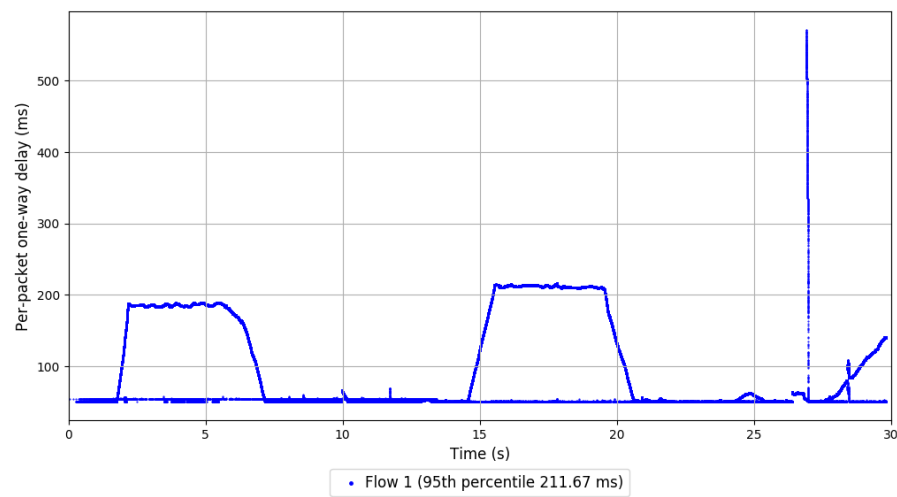
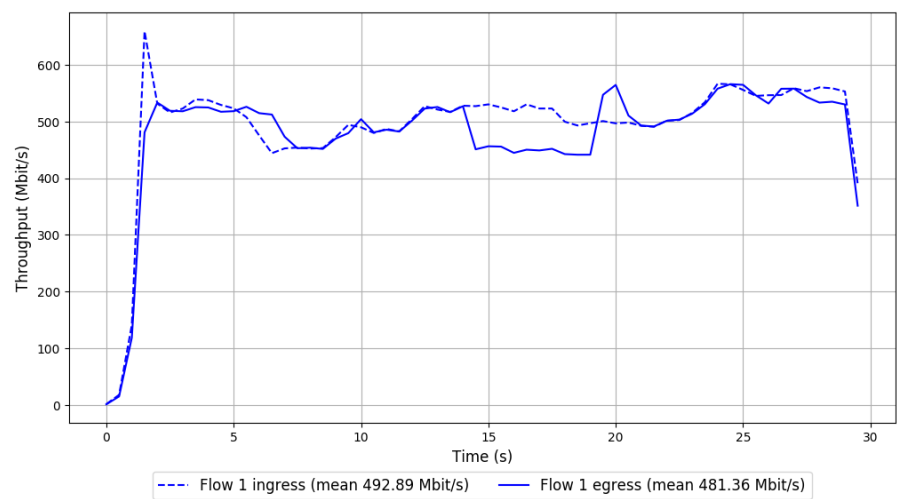
-- Flow 1:

Average throughput: 481.36 Mbit/s

95th percentile per-packet one-way delay: 211.672 ms

Loss rate: 2.69%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-20 02:49:34

End at: 2018-02-20 02:50:04

Below is generated by plot.py at 2018-02-20 06:14:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.03 Mbit/s

95th percentile per-packet one-way delay: 183.272 ms

Loss rate: 0.86%

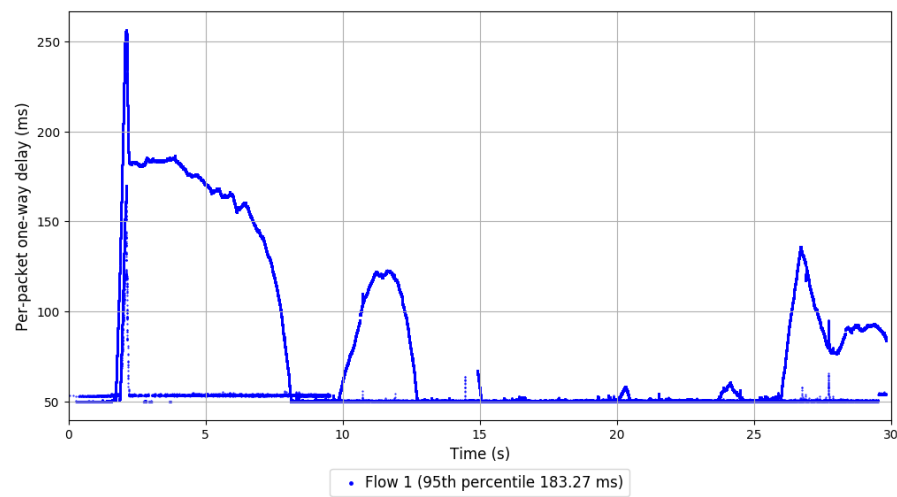
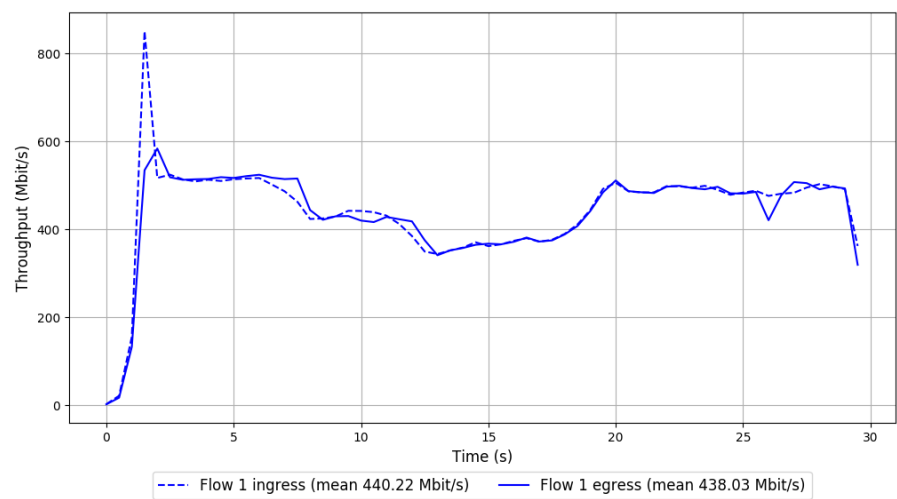
-- Flow 1:

Average throughput: 438.03 Mbit/s

95th percentile per-packet one-way delay: 183.272 ms

Loss rate: 0.86%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-20 03:04:24

End at: 2018-02-20 03:04:54

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.57 Mbit/s

95th percentile per-packet one-way delay: 211.264 ms

Loss rate: 2.11%

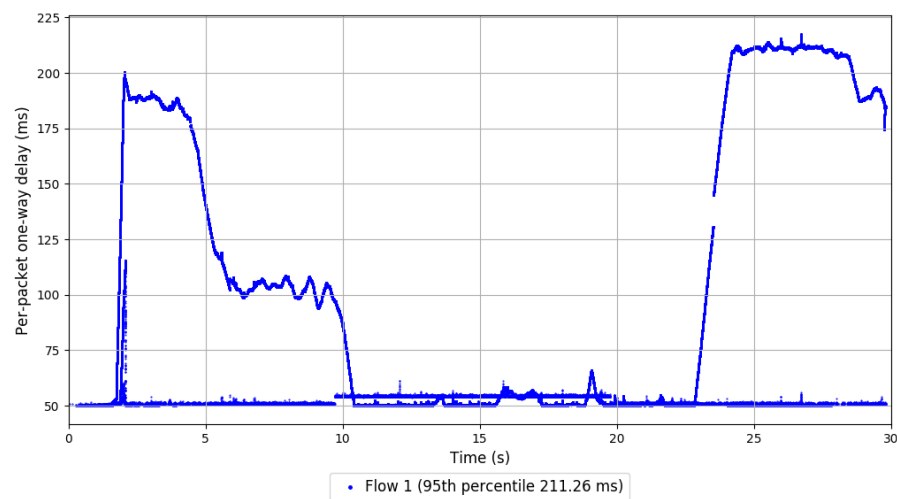
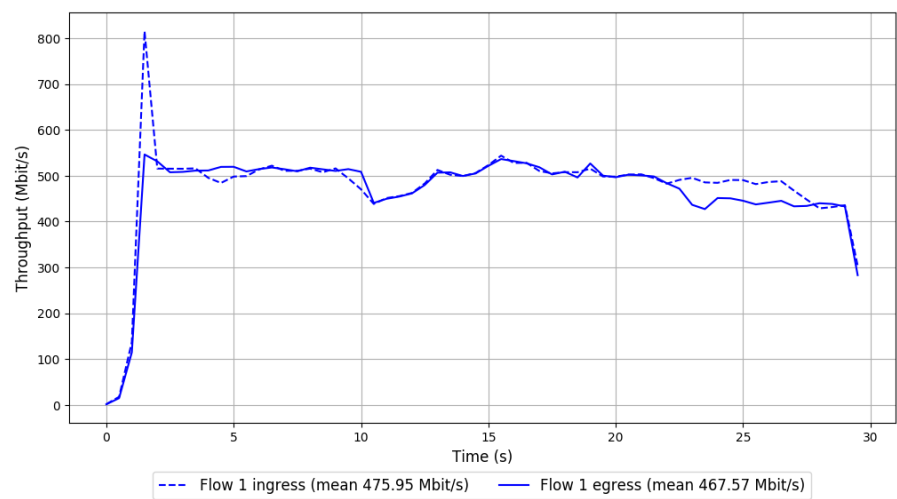
-- Flow 1:

Average throughput: 467.57 Mbit/s

95th percentile per-packet one-way delay: 211.264 ms

Loss rate: 2.11%

Run 10: Report of PCC — Data Link

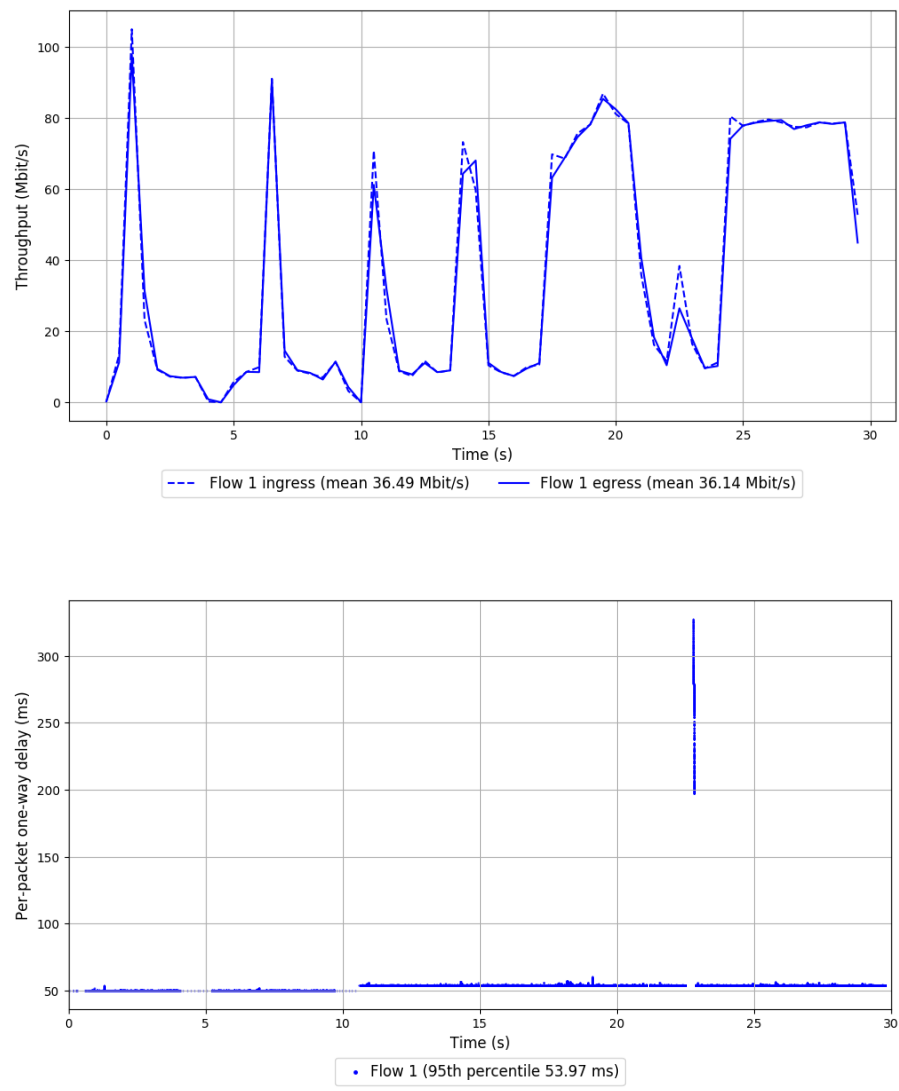


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-20 00:50:43
End at: 2018-02-20 00:51:13

# Below is generated by plot.py at 2018-02-20 06:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 53.972 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 53.972 ms
Loss rate: 1.28%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-20 01:05:23

End at: 2018-02-20 01:05:53

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.24 Mbit/s

95th percentile per-packet one-way delay: 53.846 ms

Loss rate: 0.43%

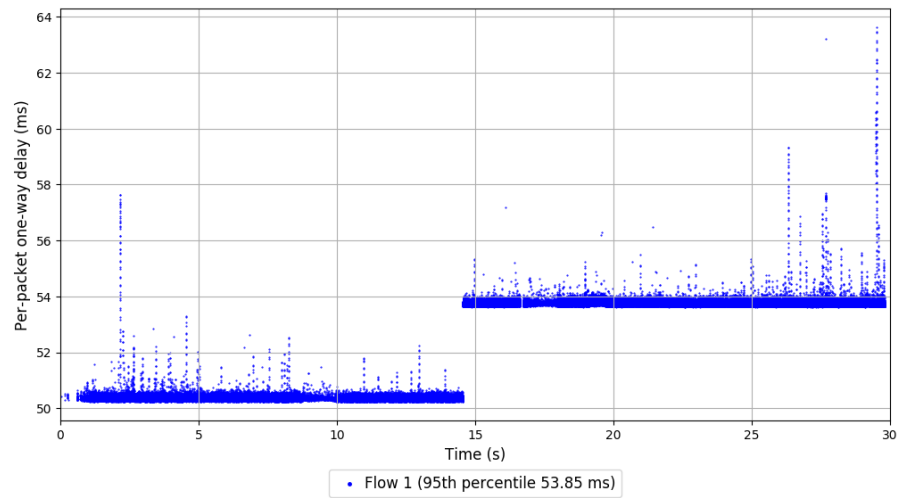
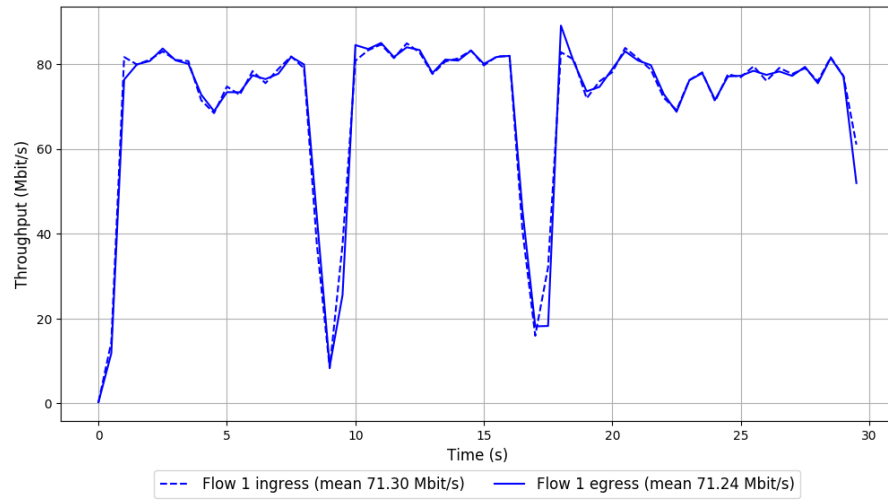
-- Flow 1:

Average throughput: 71.24 Mbit/s

95th percentile per-packet one-way delay: 53.846 ms

Loss rate: 0.43%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-20 01:19:41

End at: 2018-02-20 01:20:11

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 53.943 ms

Loss rate: 0.77%

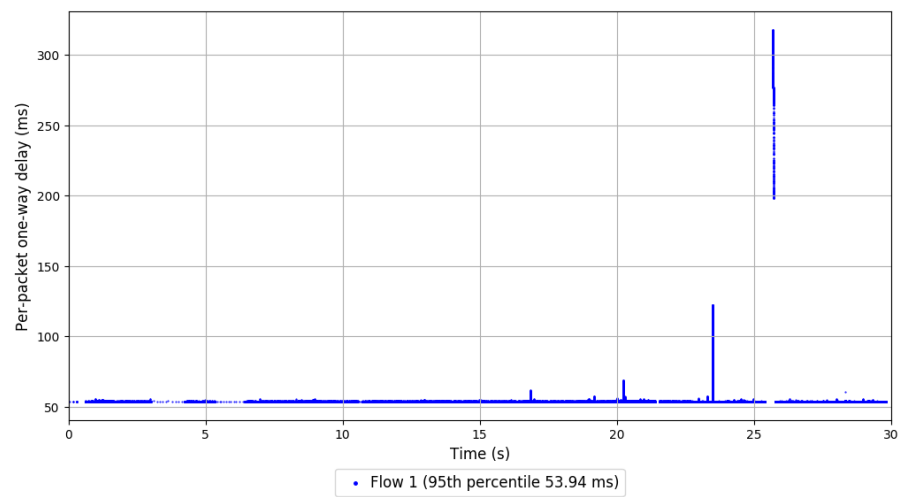
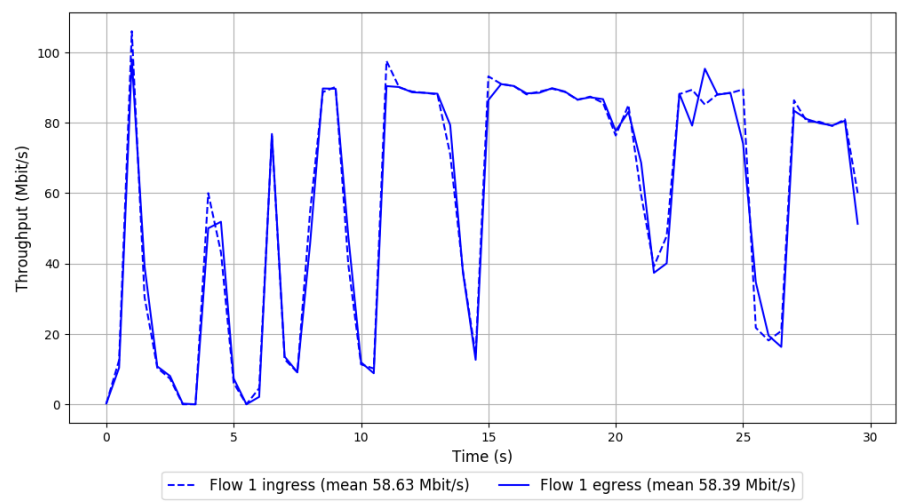
-- Flow 1:

Average throughput: 58.39 Mbit/s

95th percentile per-packet one-way delay: 53.943 ms

Loss rate: 0.77%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-20 01:34:06

End at: 2018-02-20 01:34:36

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 53.845 ms

Loss rate: 0.49%

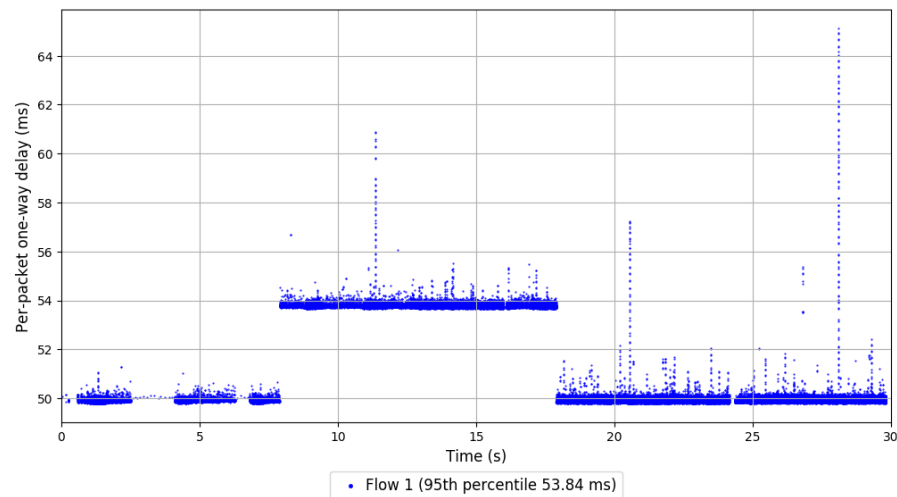
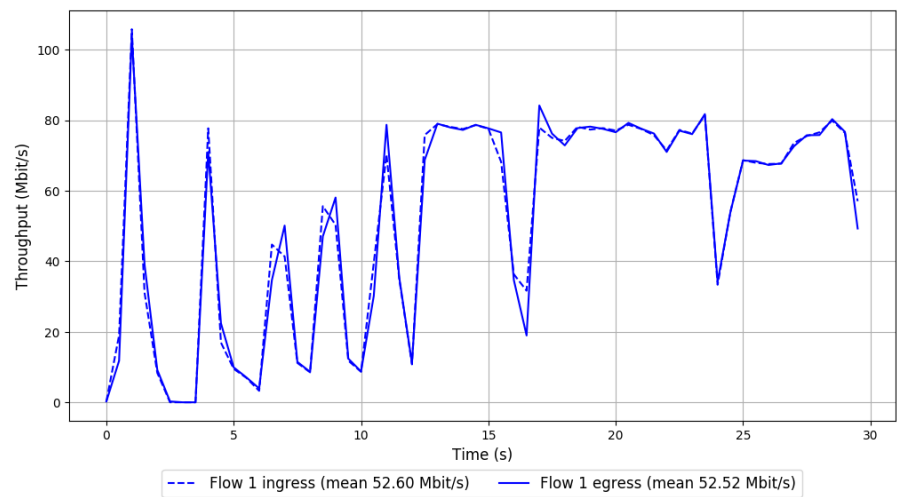
-- Flow 1:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 53.845 ms

Loss rate: 0.49%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-20 01:48:35

End at: 2018-02-20 01:49:05

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 50.042 ms

Loss rate: 0.37%

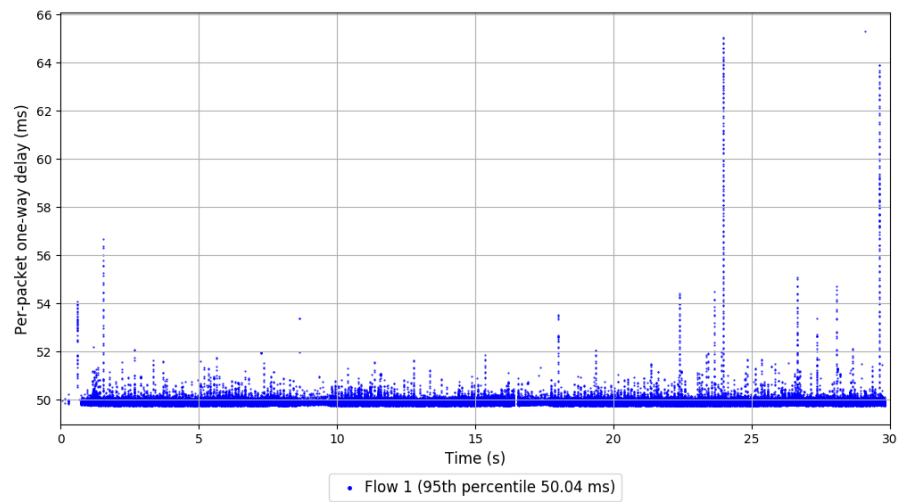
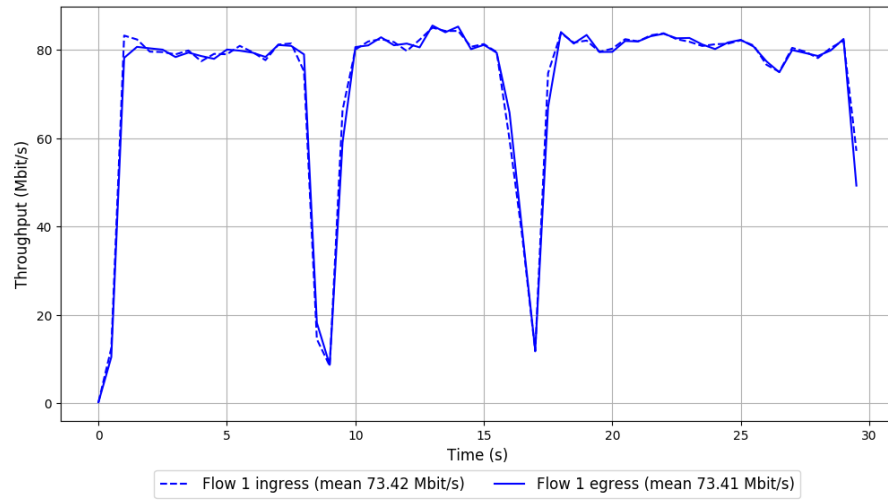
-- Flow 1:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 50.042 ms

Loss rate: 0.37%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-20 02:02:52

End at: 2018-02-20 02:03:22

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.38%

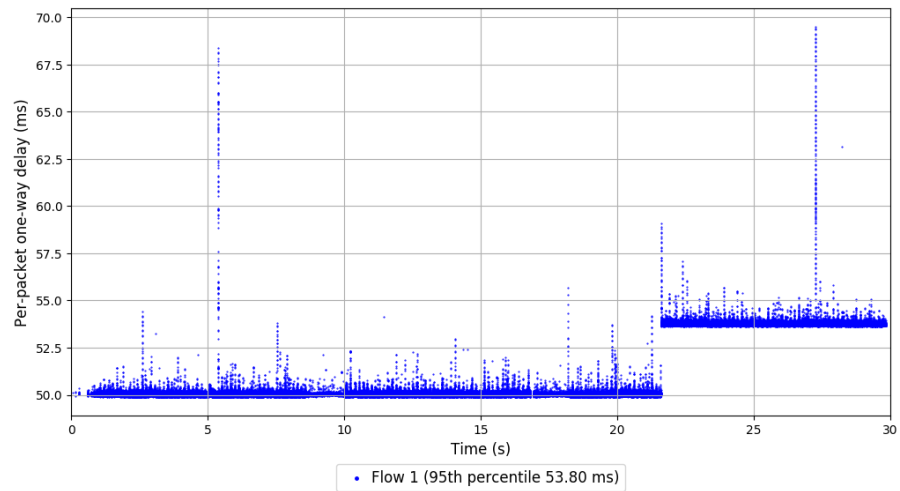
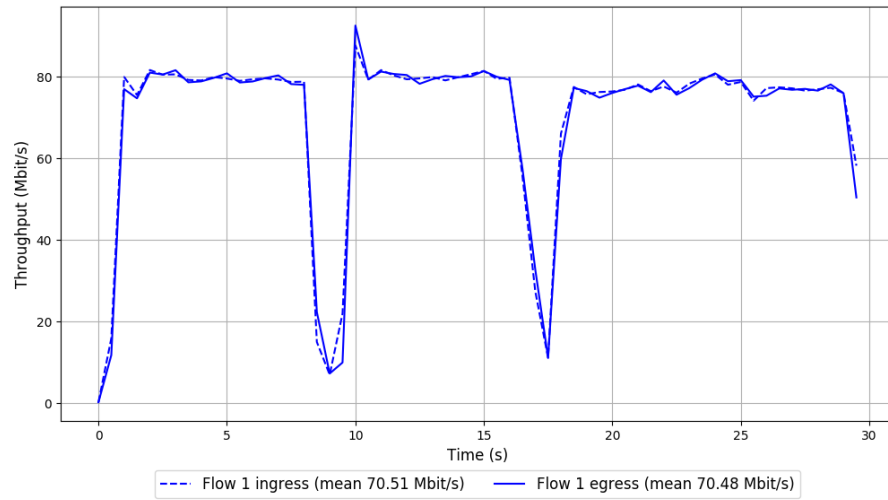
-- Flow 1:

Average throughput: 70.48 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.38%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-20 02:17:35

End at: 2018-02-20 02:18:05

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.48 Mbit/s

95th percentile per-packet one-way delay: 49.946 ms

Loss rate: 0.54%

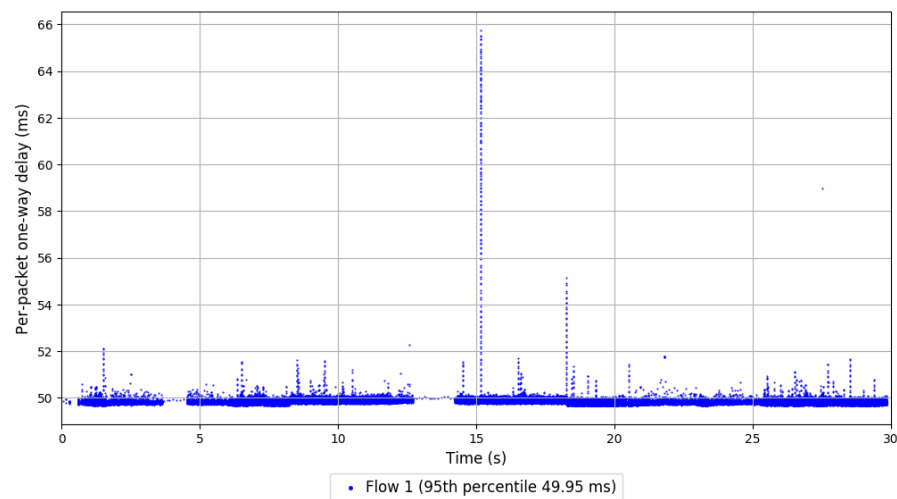
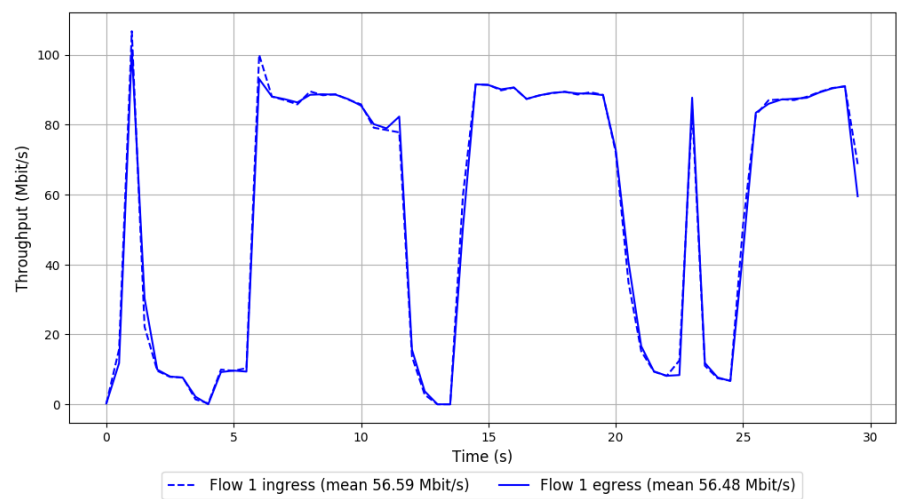
-- Flow 1:

Average throughput: 56.48 Mbit/s

95th percentile per-packet one-way delay: 49.946 ms

Loss rate: 0.54%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-20 02:32:55

End at: 2018-02-20 02:33:25

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 50.221 ms

Loss rate: 0.45%

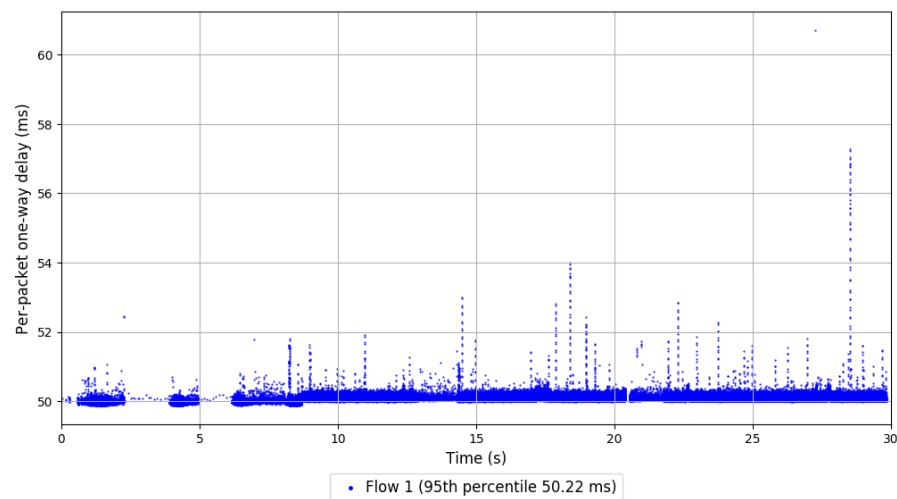
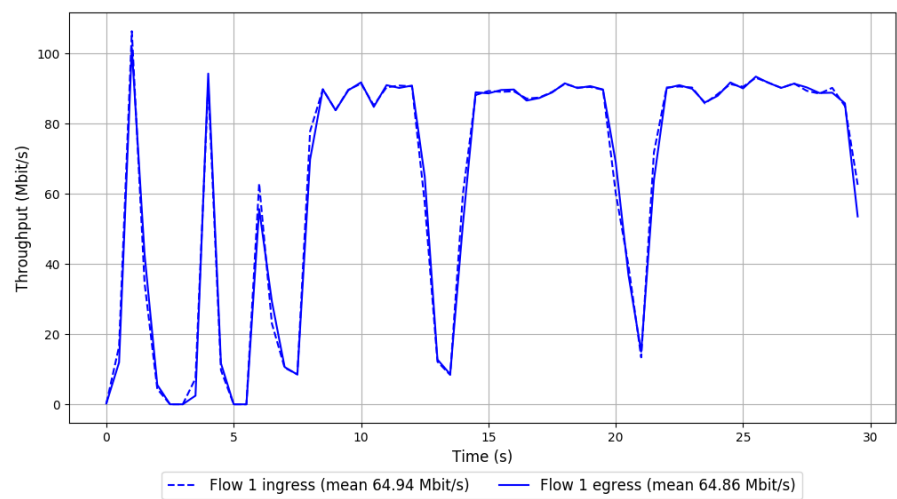
-- Flow 1:

Average throughput: 64.86 Mbit/s

95th percentile per-packet one-way delay: 50.221 ms

Loss rate: 0.45%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-20 02:47:52

End at: 2018-02-20 02:48:22

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 53.815 ms

Loss rate: 0.57%

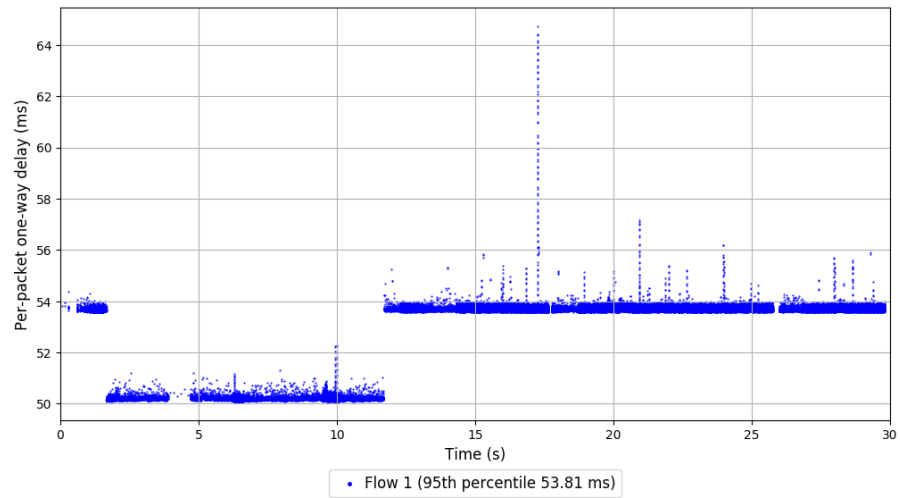
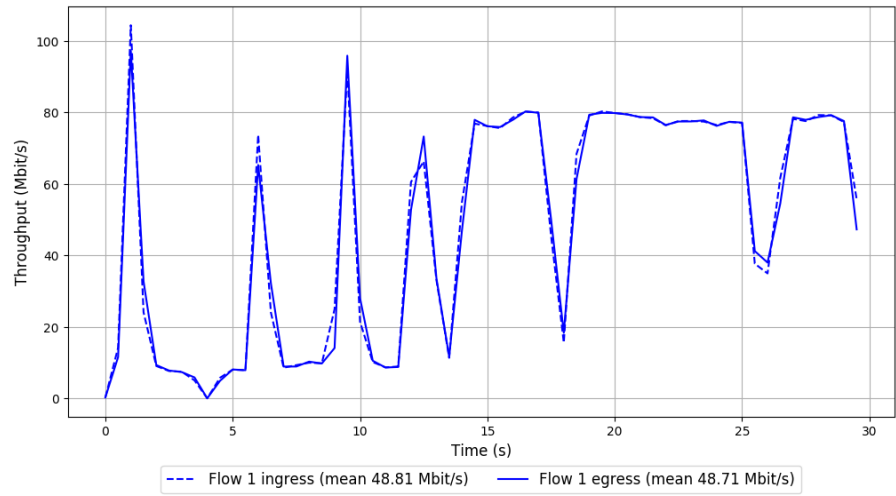
-- Flow 1:

Average throughput: 48.71 Mbit/s

95th percentile per-packet one-way delay: 53.815 ms

Loss rate: 0.57%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-20 03:02:40

End at: 2018-02-20 03:03:10

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.91 Mbit/s

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

Loss rate: 0.51%

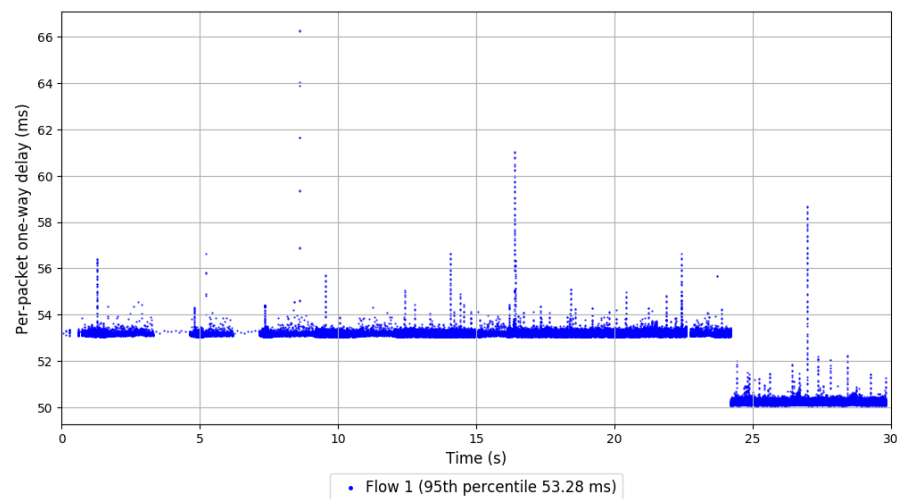
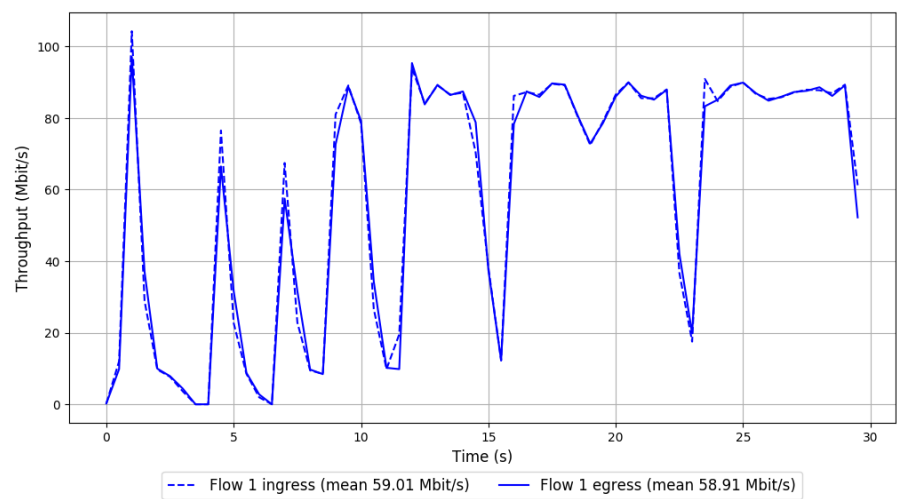
-- Flow 1:

Average throughput: 58.91 Mbit/s

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

Loss rate: 0.51%

Run 10: Report of QUIC Cubic — Data Link

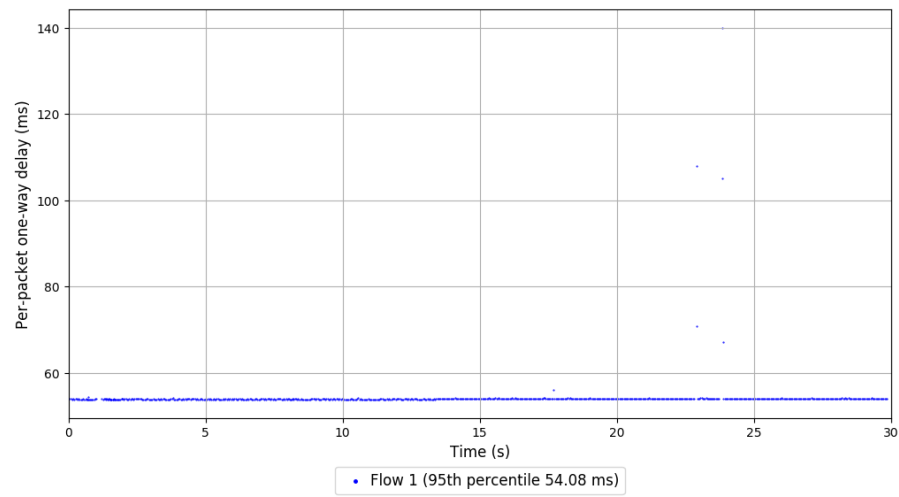
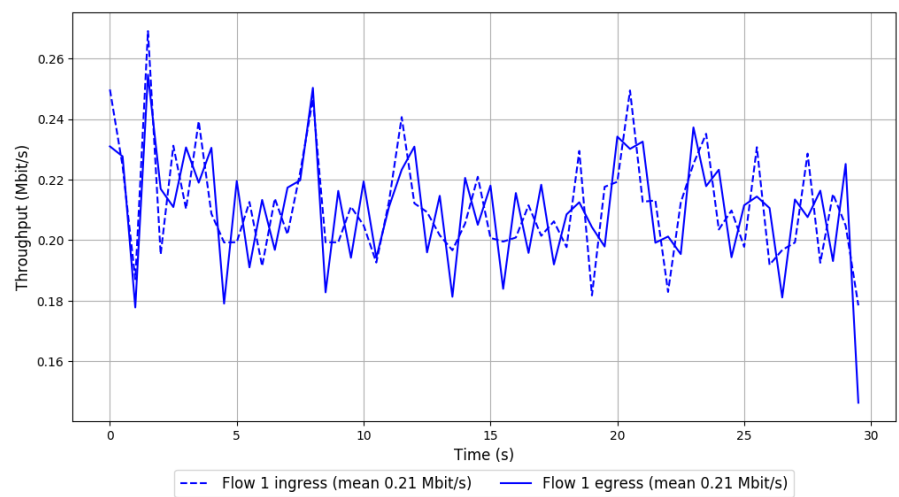


```
Run 1: Statistics of SCReAM

Start at: 2018-02-20 00:55:44
End at: 2018-02-20 00:56:14

# Below is generated by plot.py at 2018-02-20 06:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.077 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.077 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

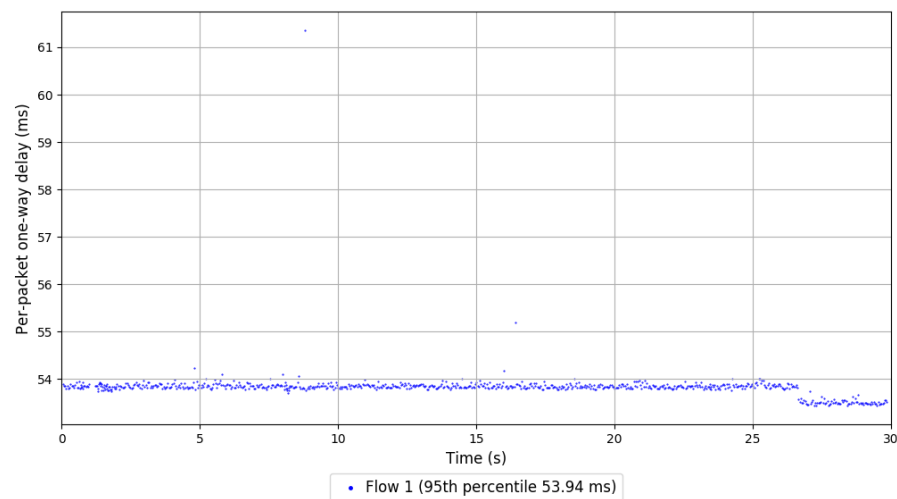
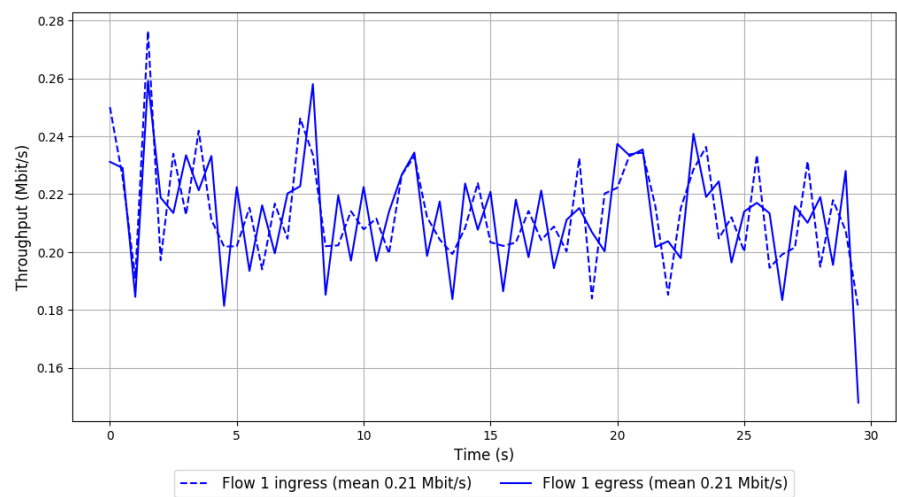


```
Run 2: Statistics of SCReAM

Start at: 2018-02-20 01:10:17
End at: 2018-02-20 01:10:47

# Below is generated by plot.py at 2018-02-20 06:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.939 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.939 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-20 01:24:38

End at: 2018-02-20 01:25:08

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.38%

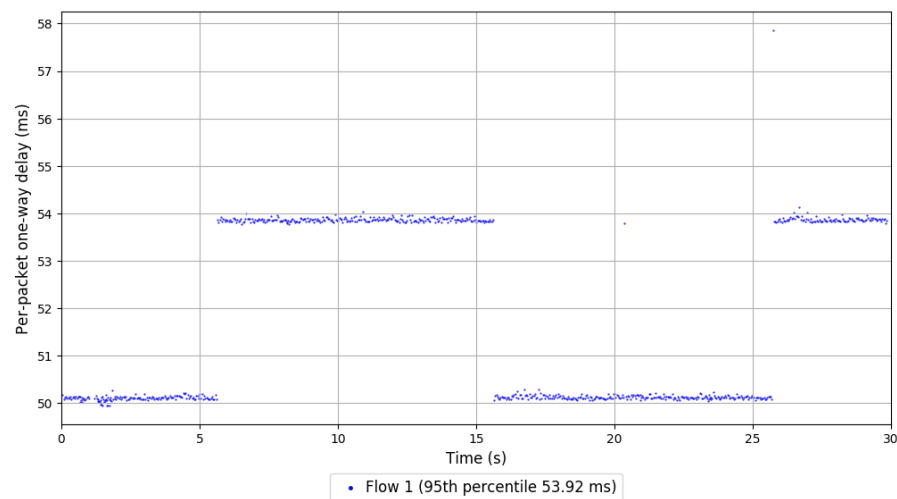
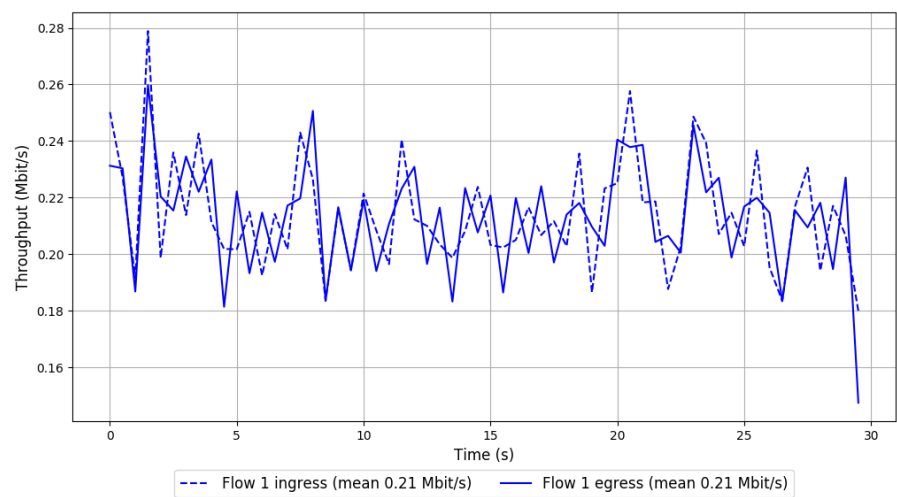
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

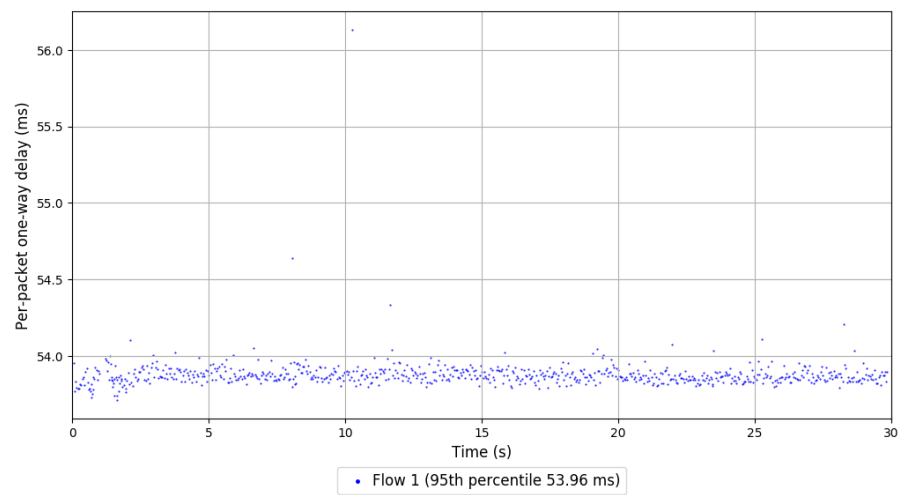
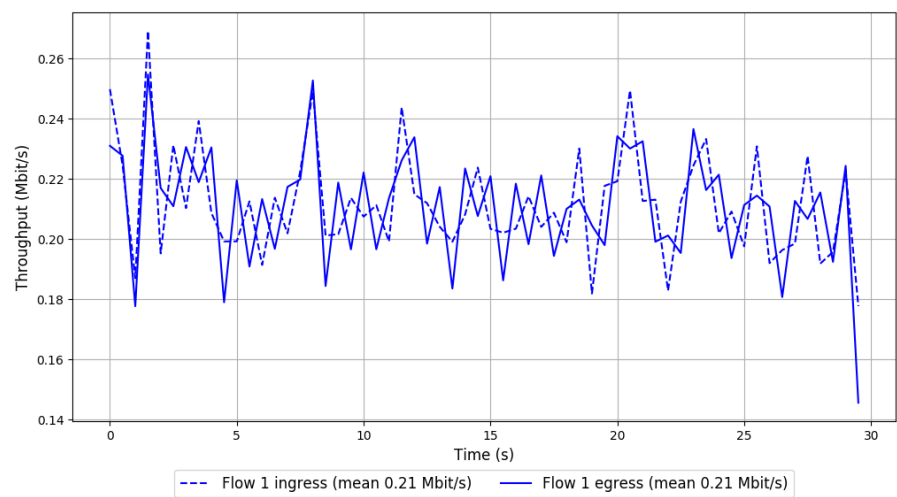


```
Run 4: Statistics of SCReAM

Start at: 2018-02-20 01:38:53
End at: 2018-02-20 01:39:23

# Below is generated by plot.py at 2018-02-20 06:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.962 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.962 ms
Loss rate: 0.38%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-20 01:53:30

End at: 2018-02-20 01:54:00

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.404 ms

Loss rate: 0.38%

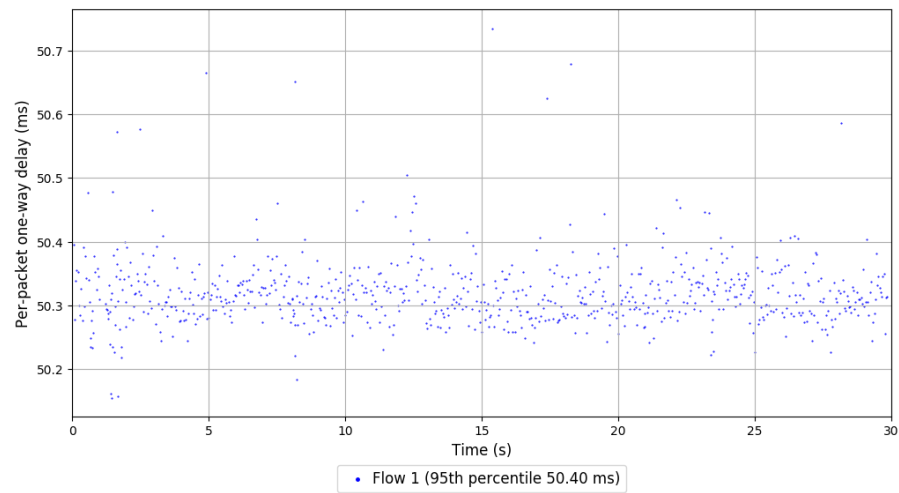
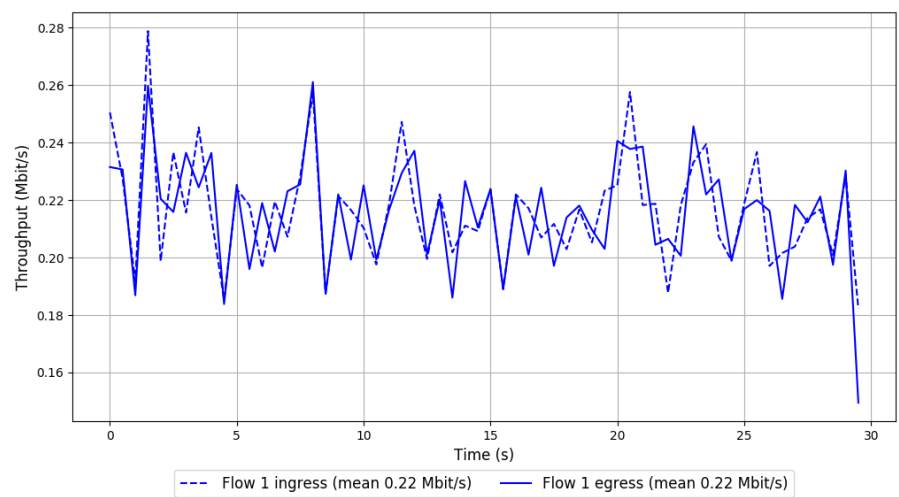
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.404 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-20 02:07:52

End at: 2018-02-20 02:08:22

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.272 ms

Loss rate: 0.38%

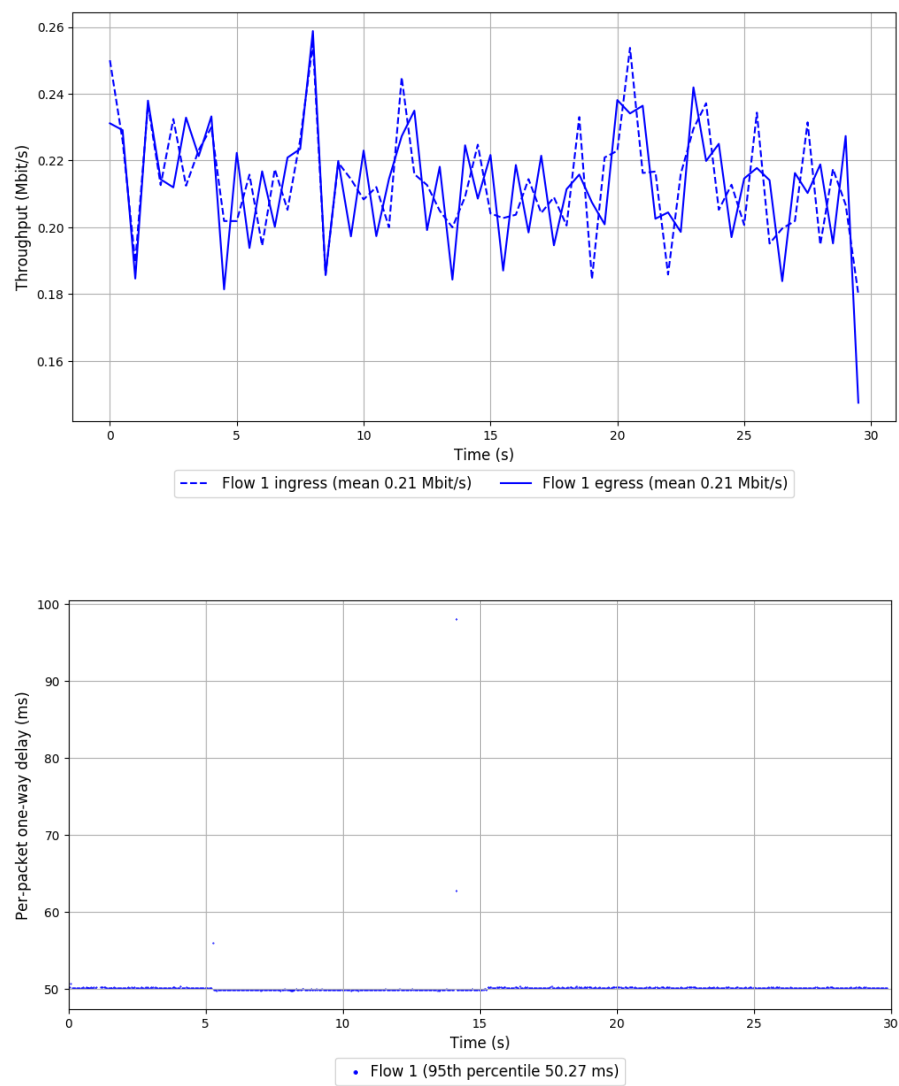
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.272 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-20 02:22:41

End at: 2018-02-20 02:23:11

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.074 ms

Loss rate: 0.26%

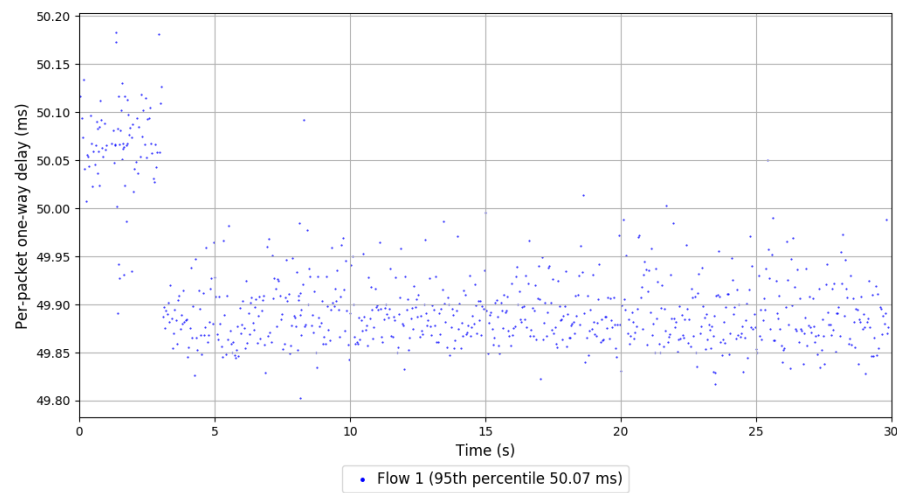
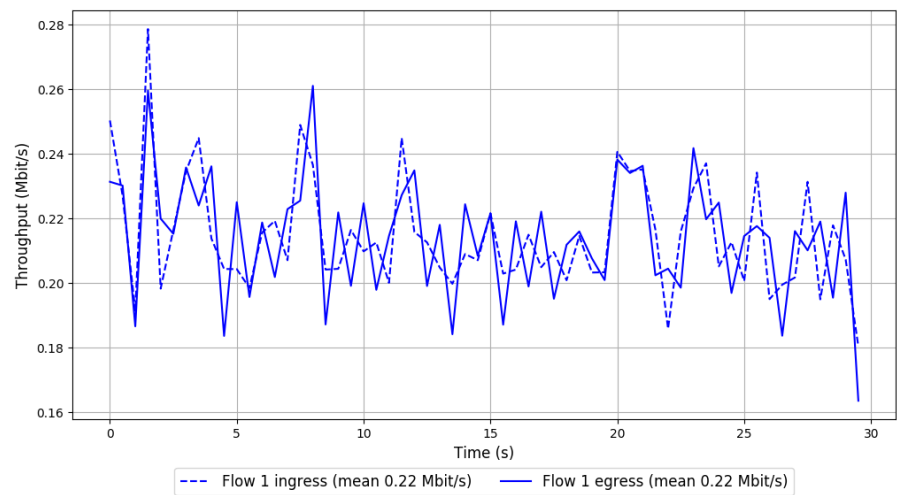
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.074 ms

Loss rate: 0.26%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-20 02:37:56

End at: 2018-02-20 02:38:26

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.876 ms

Loss rate: 0.38%

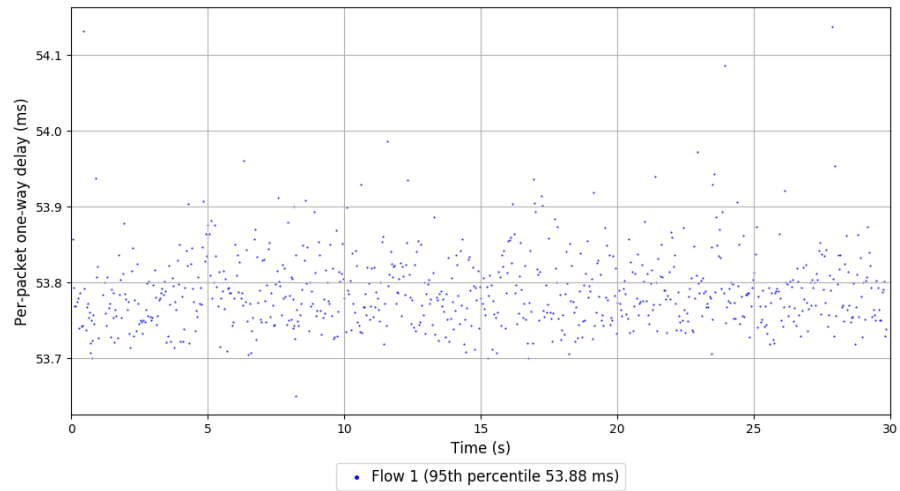
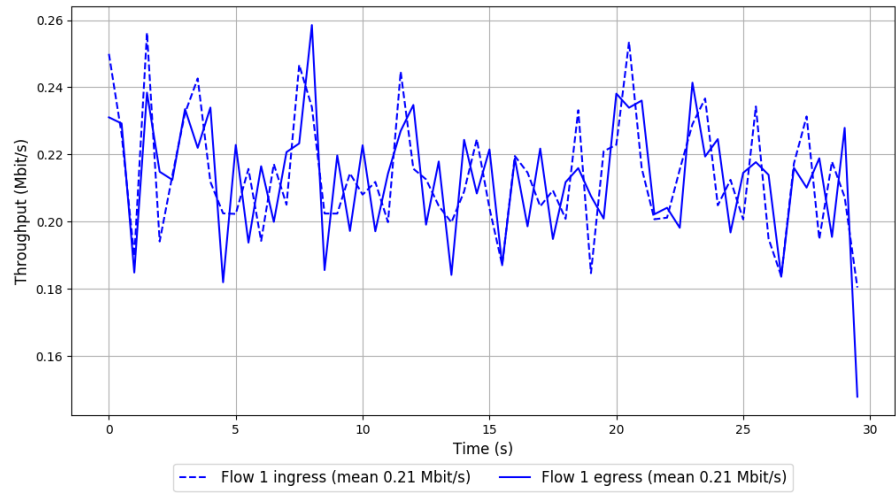
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.876 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-20 02:52:50

End at: 2018-02-20 02:53:20

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.448 ms

Loss rate: 0.38%

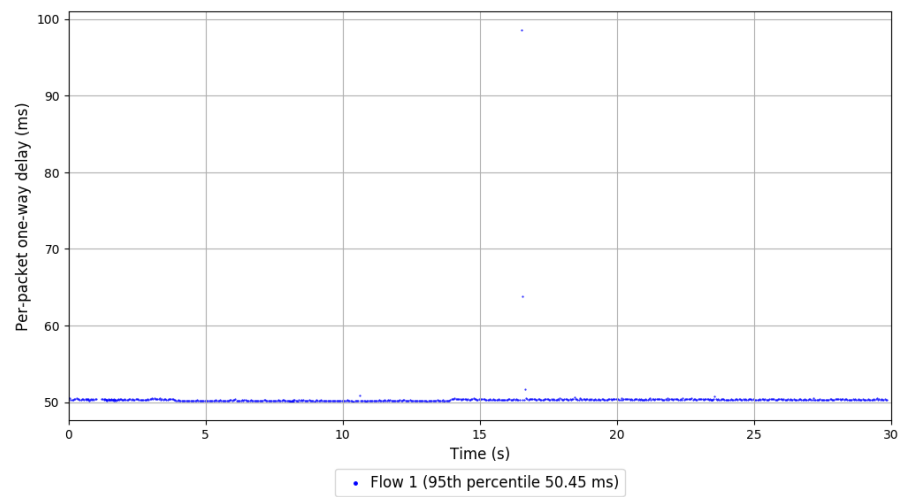
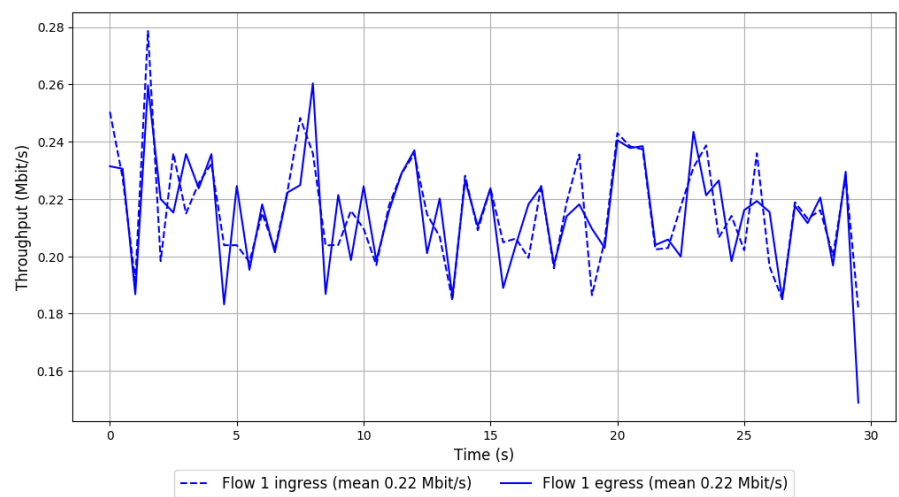
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.448 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-20 03:07:41

End at: 2018-02-20 03:08:11

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 50.565 ms

Loss rate: 0.10%

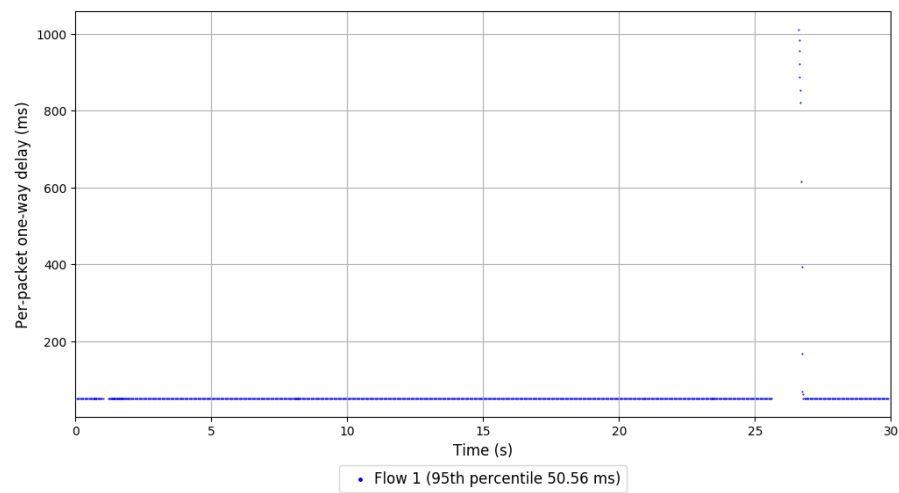
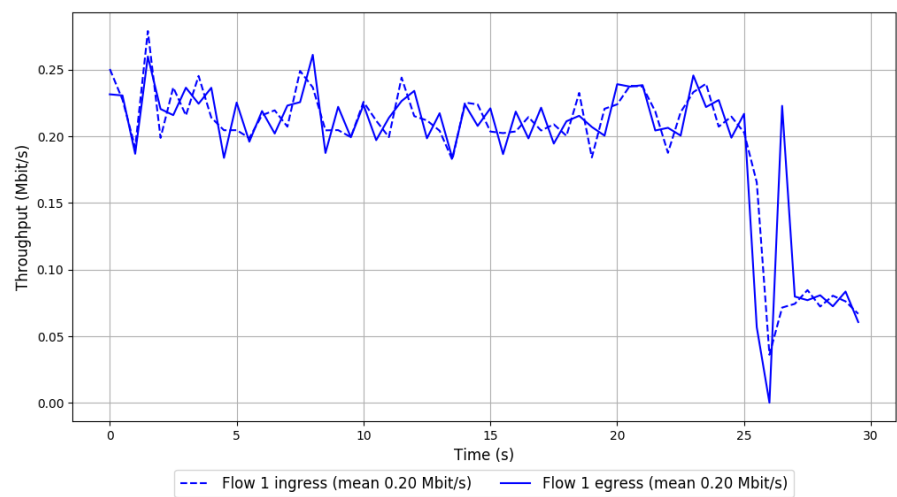
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 50.565 ms

Loss rate: 0.10%

Run 10: Report of SReAM — Data Link

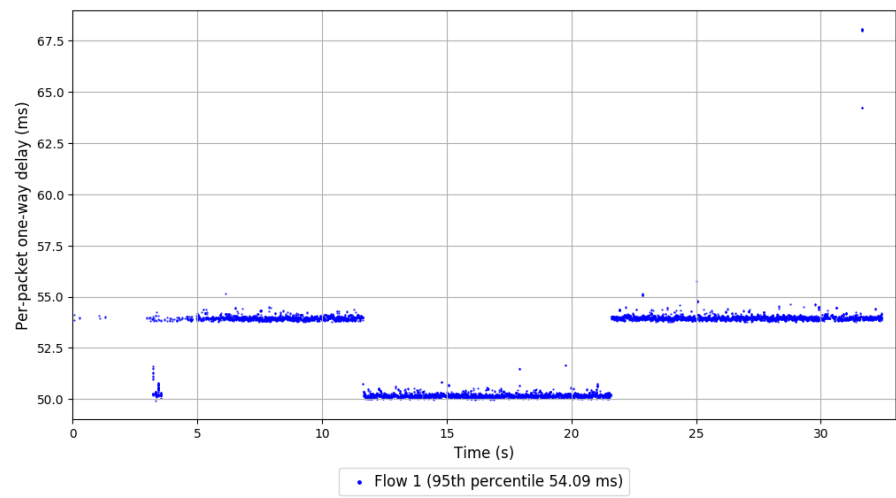
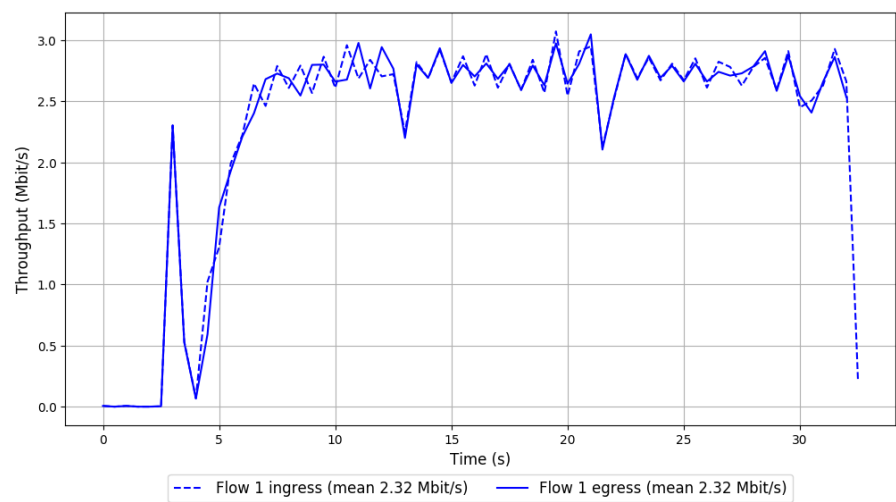


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-20 01:01:35
End at: 2018-02-20 01:02:05

# Below is generated by plot.py at 2018-02-20 06:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 54.095 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 54.095 ms
Loss rate: 0.43%
```


Run 1: Report of WebRTC media — Data Link

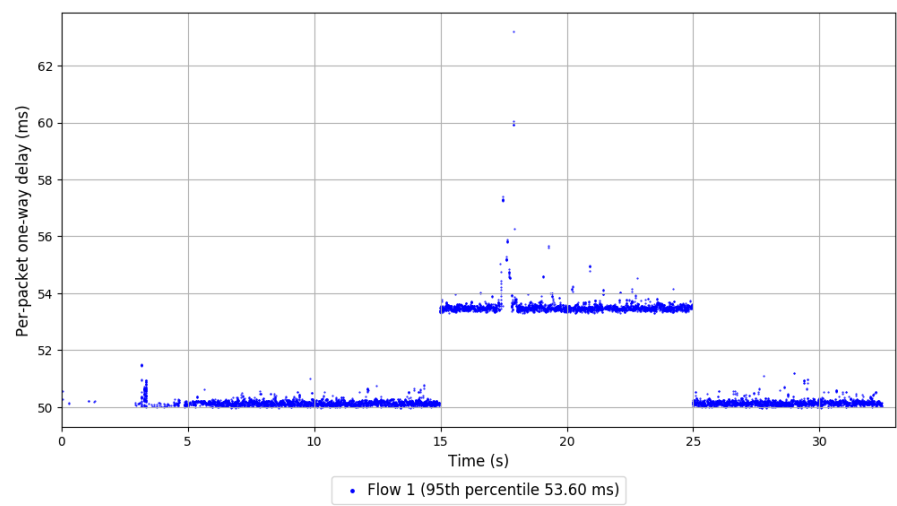
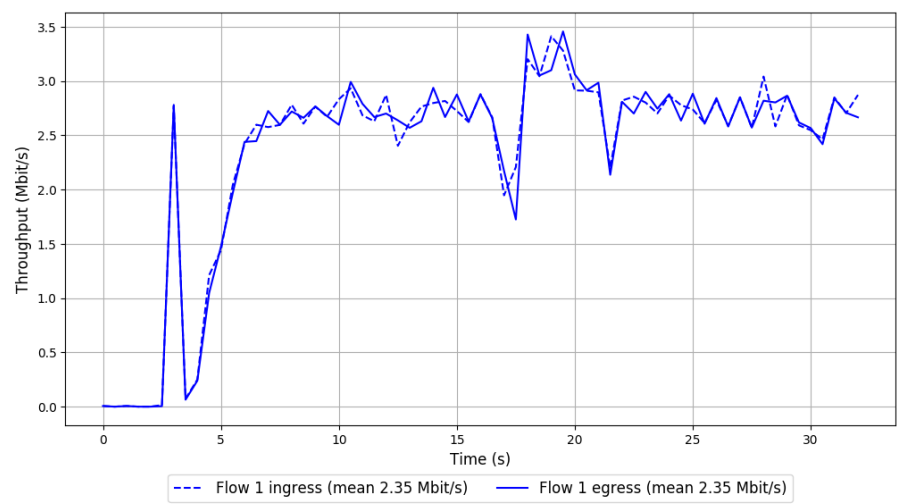


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-20 01:15:51
End at: 2018-02-20 01:16:21

# Below is generated by plot.py at 2018-02-20 06:14:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 53.598 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 53.598 ms
Loss rate: 0.28%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-20 01:30:16

End at: 2018-02-20 01:30:46

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

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

Loss rate: 0.43%

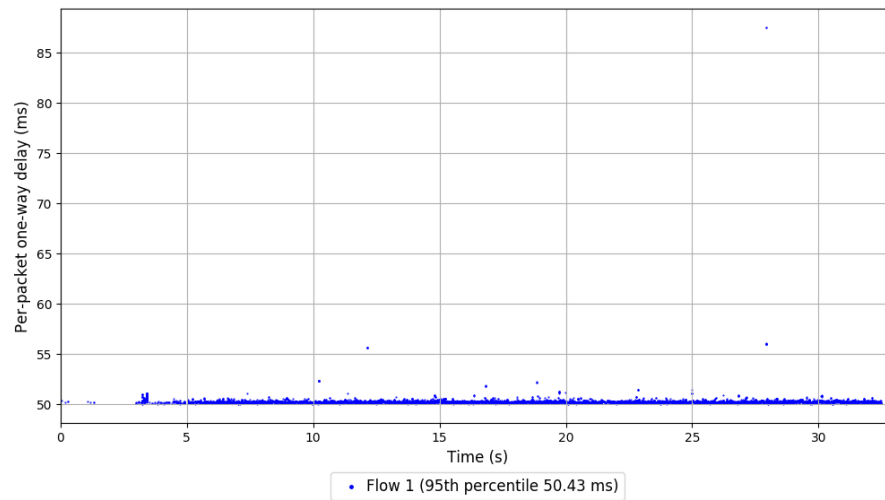
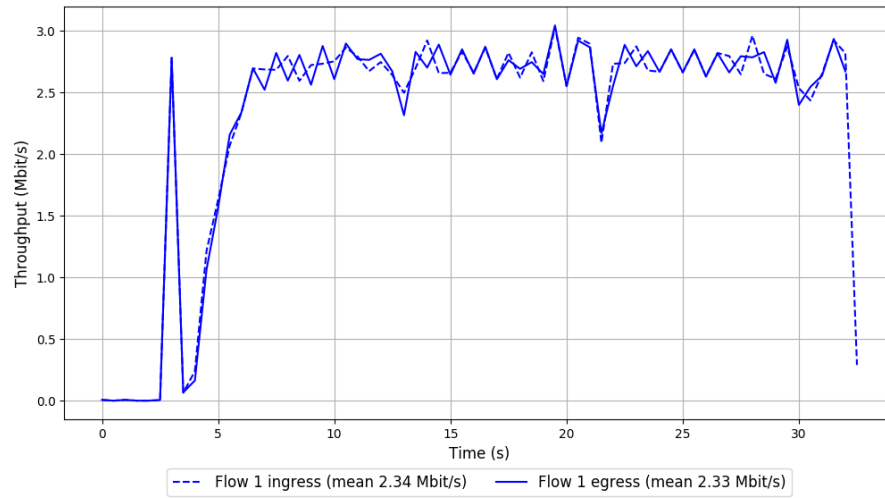
-- Flow 1:

Average throughput: 2.33 Mbit/s

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

Loss rate: 0.43%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-20 01:44:45

End at: 2018-02-20 01:45:15

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.947 ms

Loss rate: 0.43%

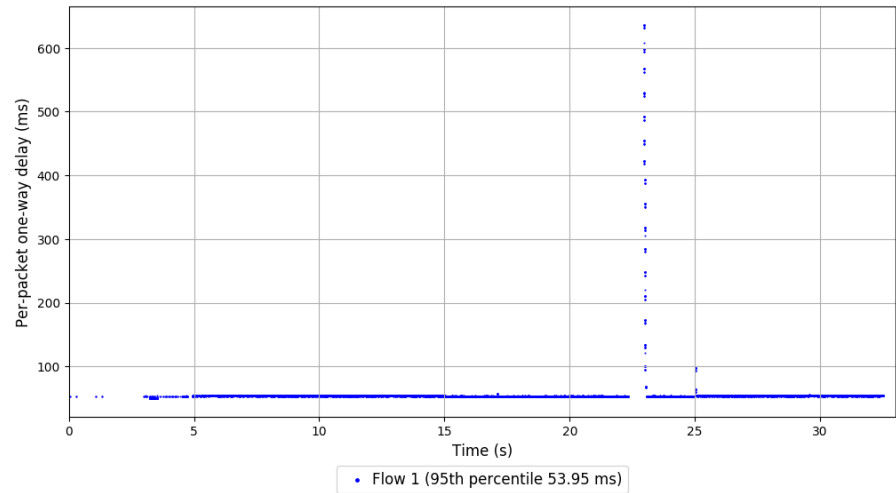
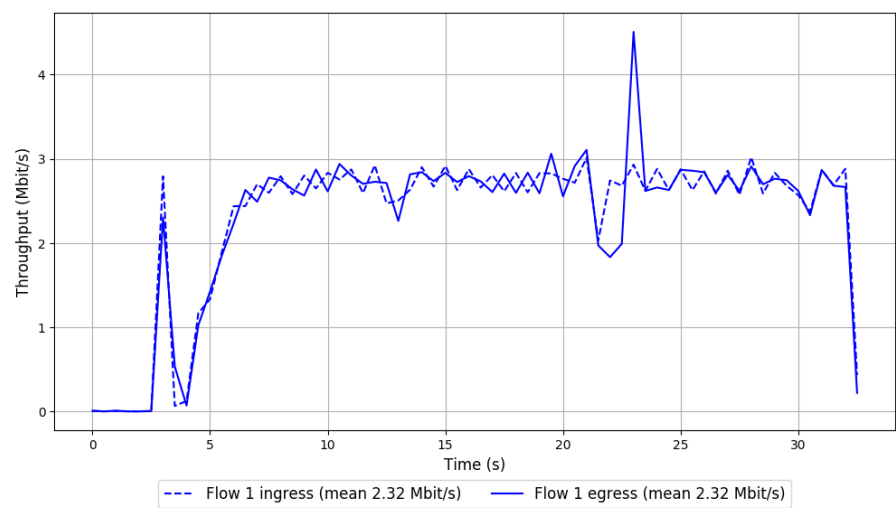
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.947 ms

Loss rate: 0.43%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-20 01:59:01

End at: 2018-02-20 01:59:31

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

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

Loss rate: 0.31%

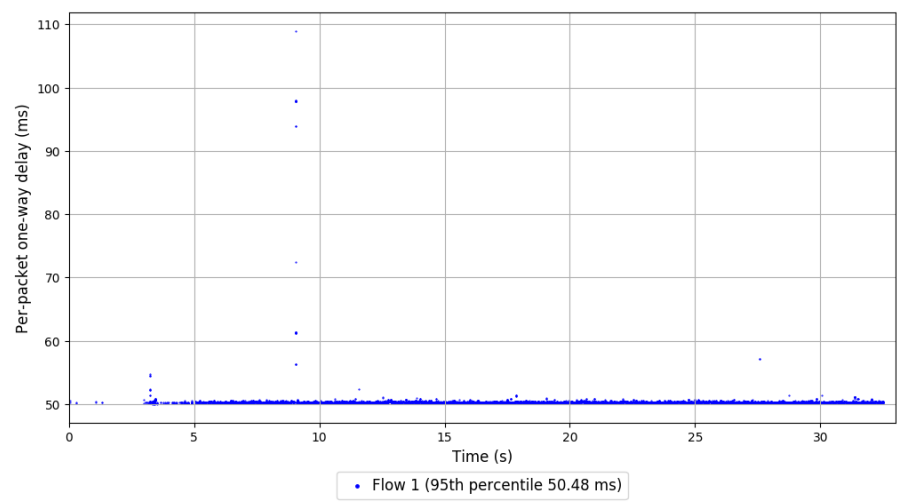
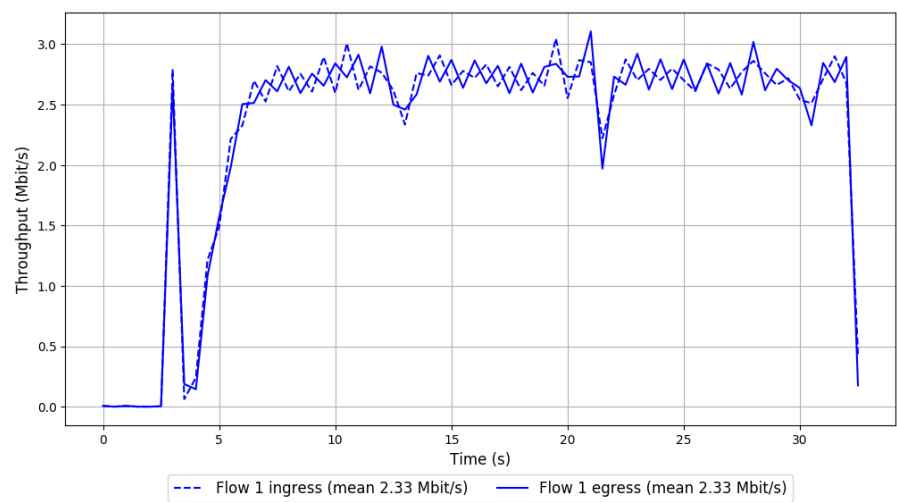
-- Flow 1:

Average throughput: 2.33 Mbit/s

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

Loss rate: 0.31%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-20 02:13:42

End at: 2018-02-20 02:14:12

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.208 ms

Loss rate: 0.44%

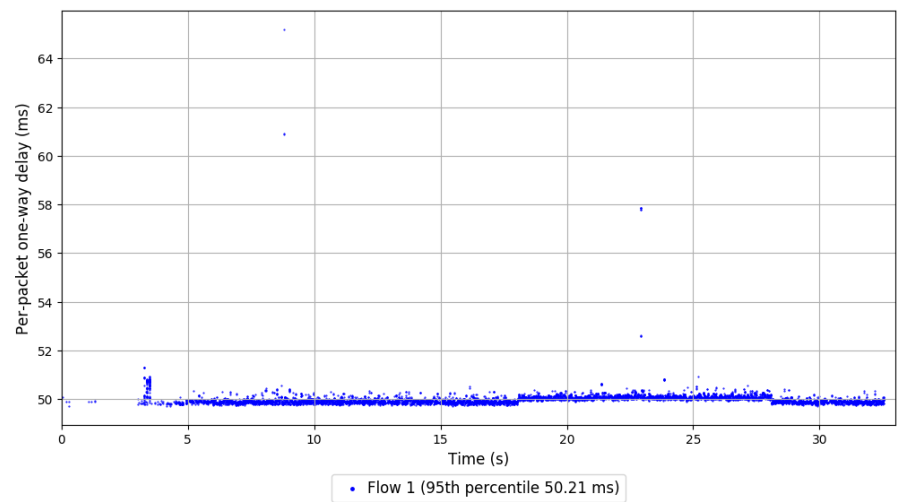
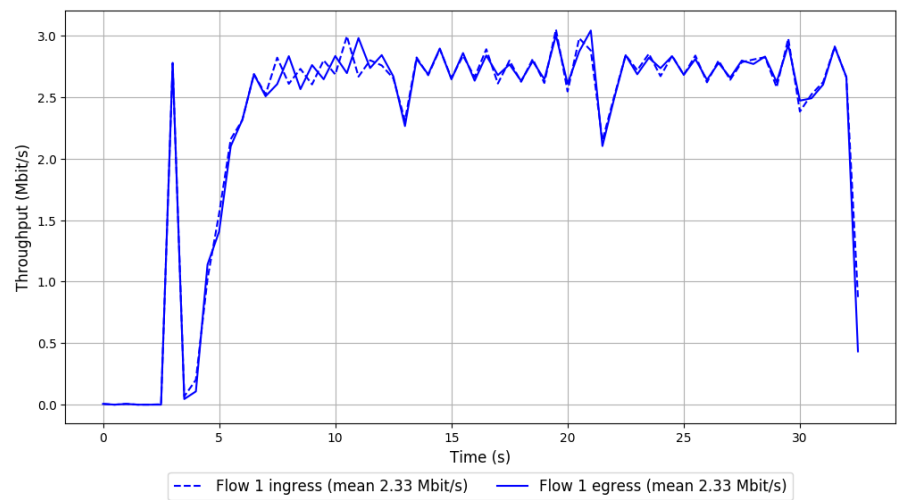
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.208 ms

Loss rate: 0.44%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-20 02:29:02

End at: 2018-02-20 02:29:32

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.312 ms

Loss rate: 0.28%

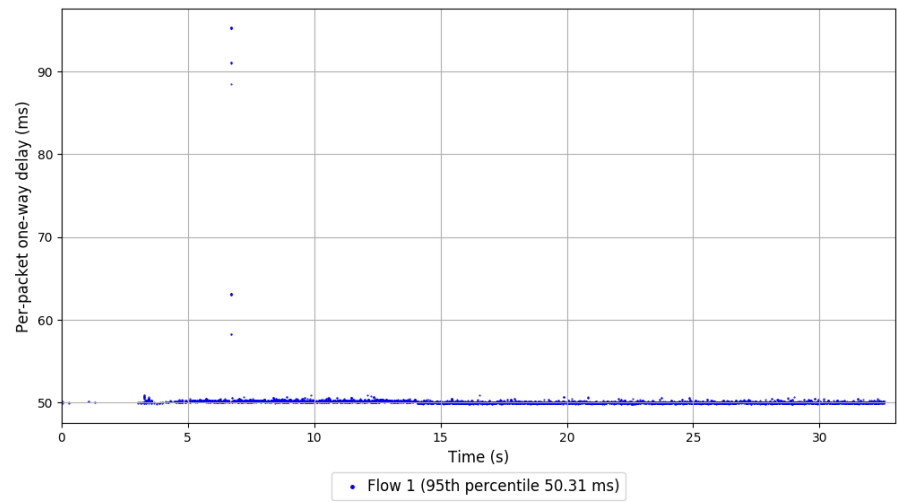
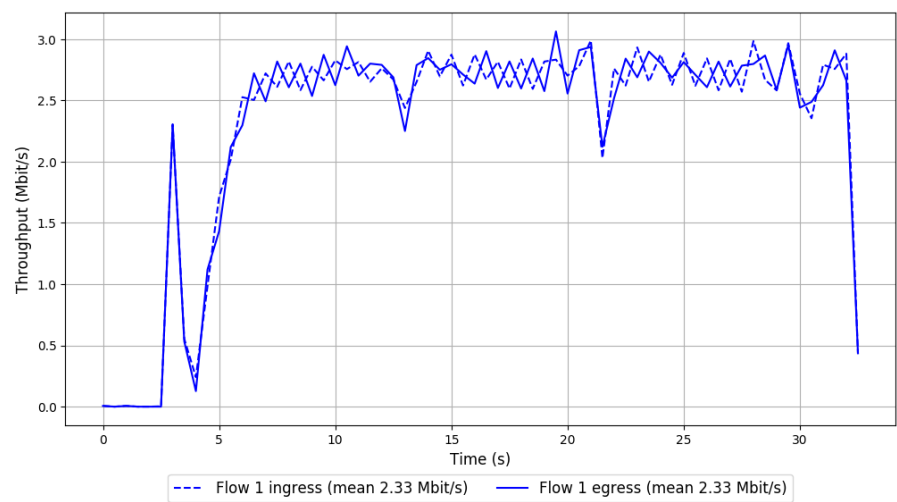
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 50.312 ms

Loss rate: 0.28%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-20 02:44:01

End at: 2018-02-20 02:44:31

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 54.156 ms

Loss rate: 0.80%

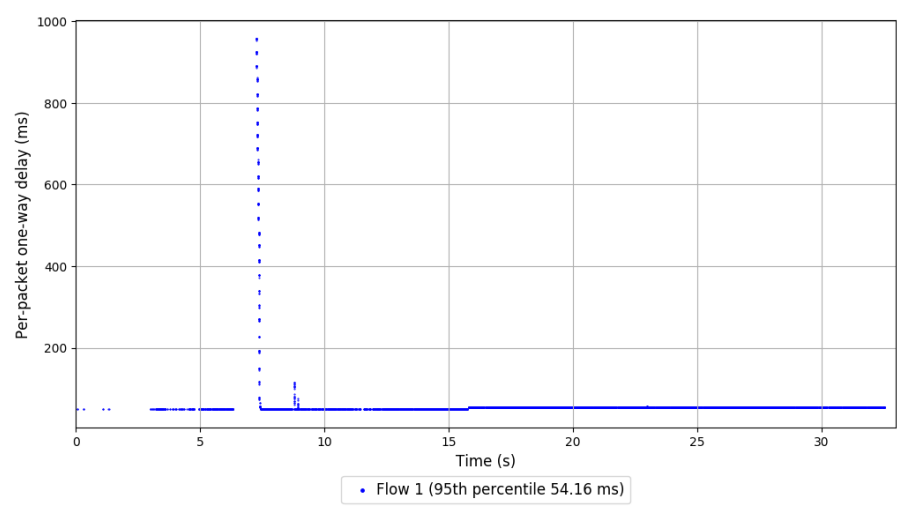
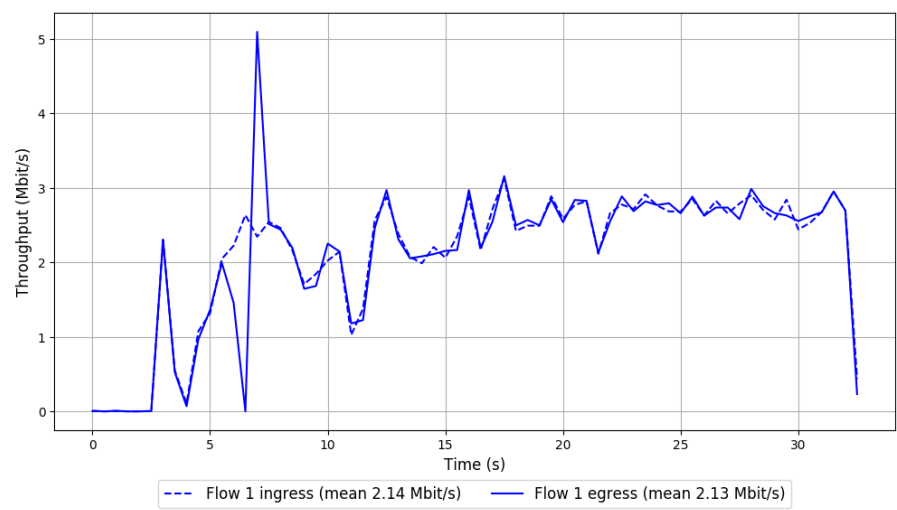
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 54.156 ms

Loss rate: 0.80%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-20 02:58:47

End at: 2018-02-20 02:59:17

Below is generated by plot.py at 2018-02-20 06:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.370 ms

Loss rate: 0.44%

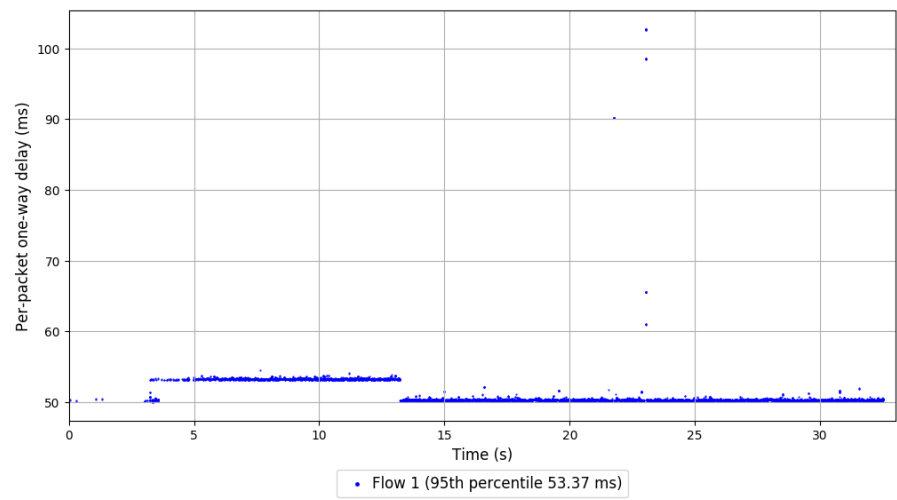
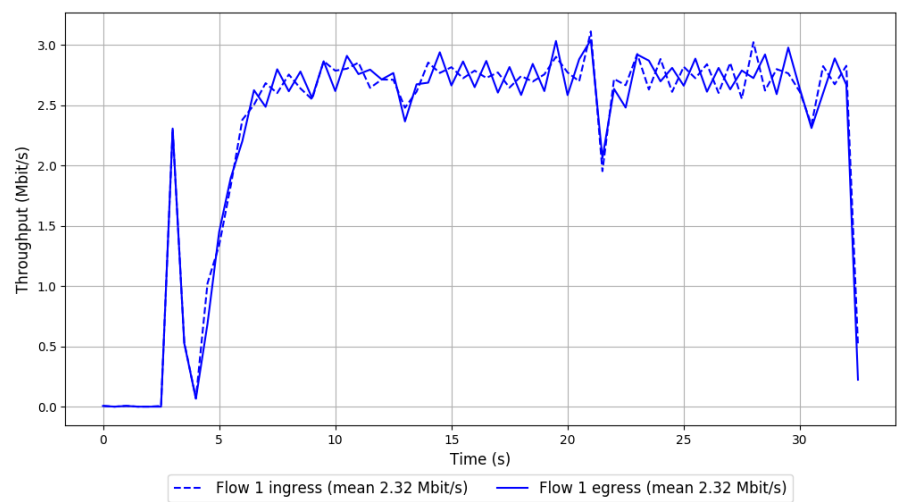
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.370 ms

Loss rate: 0.44%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-20 03:13:29

End at: 2018-02-20 03:13:59

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.193 ms

Loss rate: 0.42%

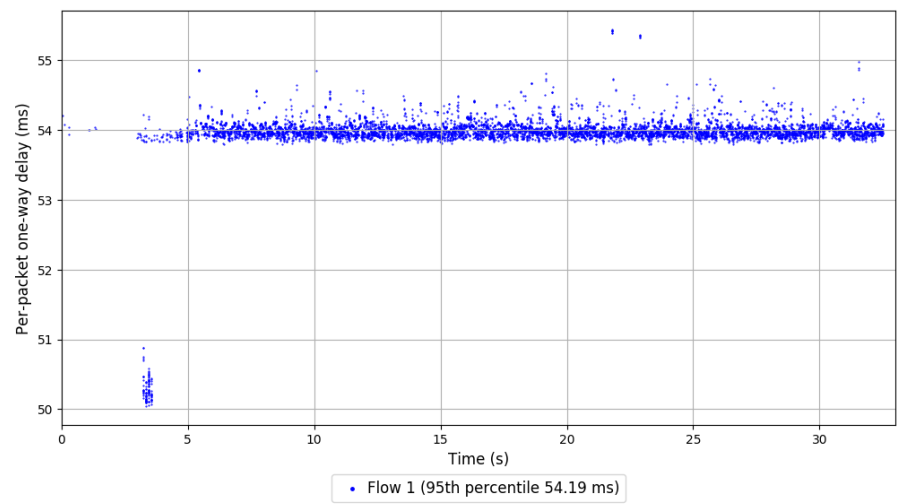
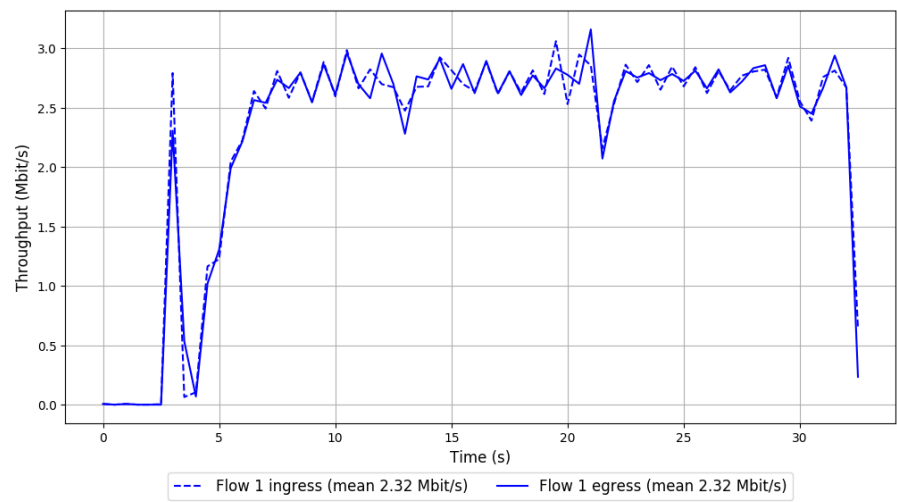
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.193 ms

Loss rate: 0.42%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-20 00:47:29

End at: 2018-02-20 00:47:59

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 51.653 ms

Loss rate: 0.41%

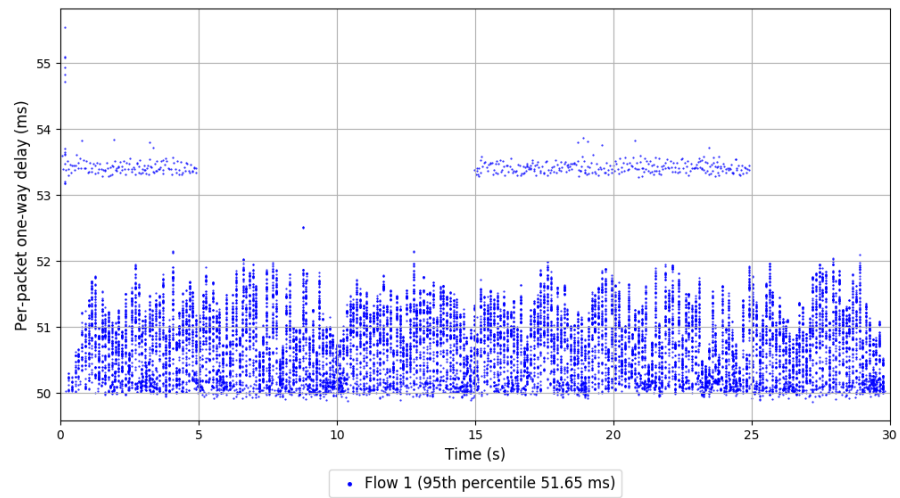
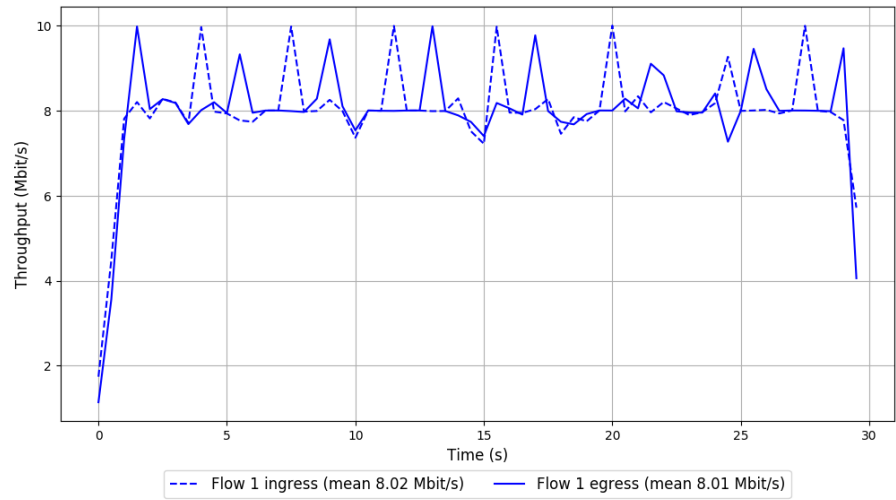
-- Flow 1:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 51.653 ms

Loss rate: 0.41%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-20 01:02:12

End at: 2018-02-20 01:02:42

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 52.099 ms

Loss rate: 0.09%

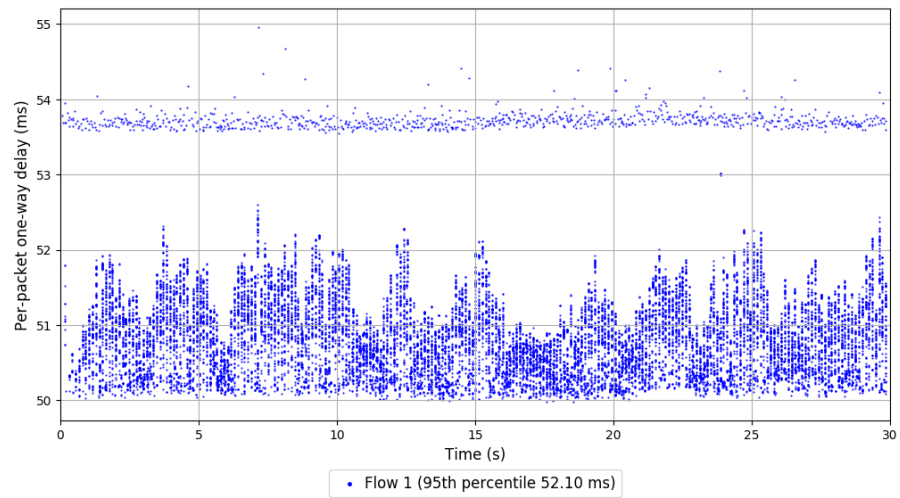
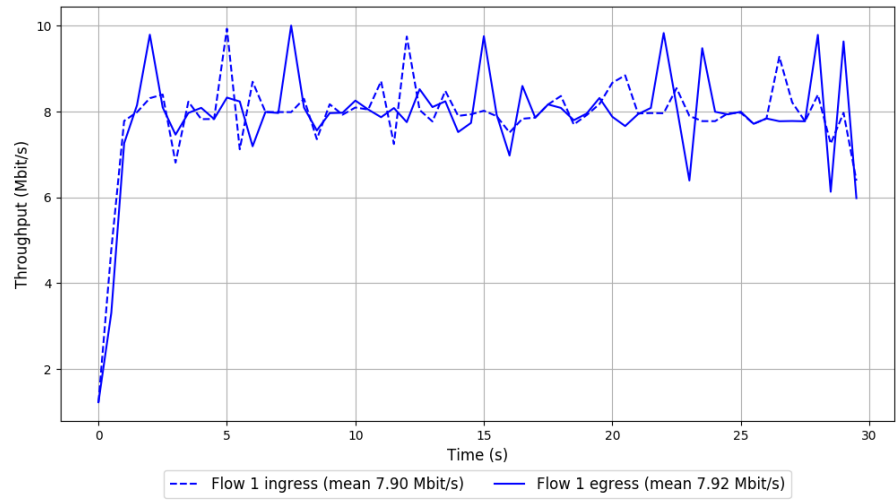
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 52.099 ms

Loss rate: 0.09%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-20 01:16:29

End at: 2018-02-20 01:16:59

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.702 ms

Loss rate: 0.38%

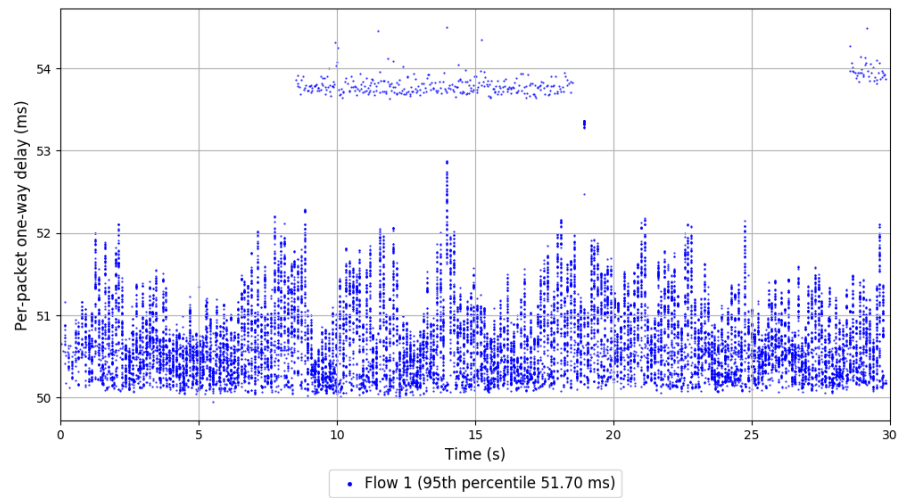
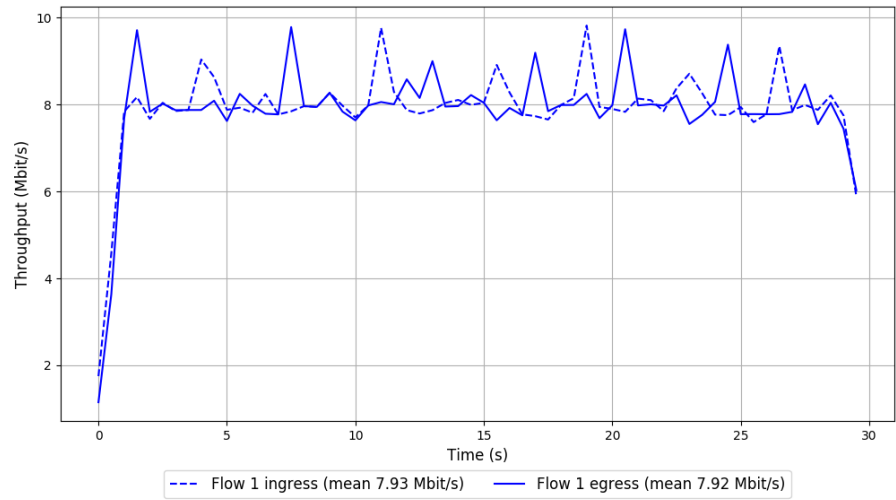
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.702 ms

Loss rate: 0.38%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-20 01:30:53

End at: 2018-02-20 01:31:23

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.48%

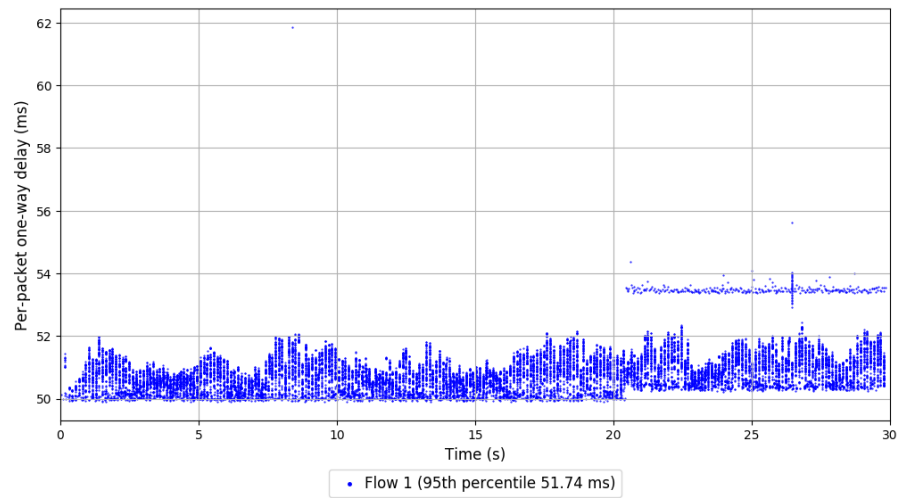
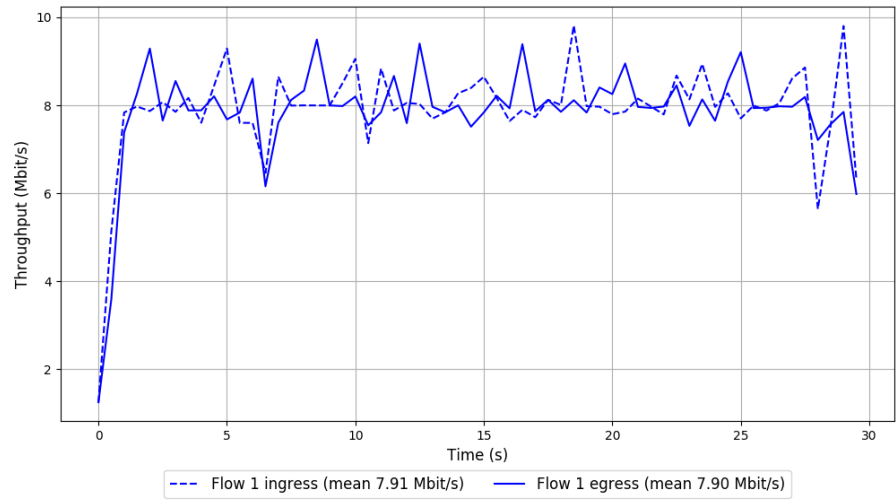
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.738 ms

Loss rate: 0.48%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-20 01:45:23

End at: 2018-02-20 01:45:53

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 52.264 ms

Loss rate: 0.42%

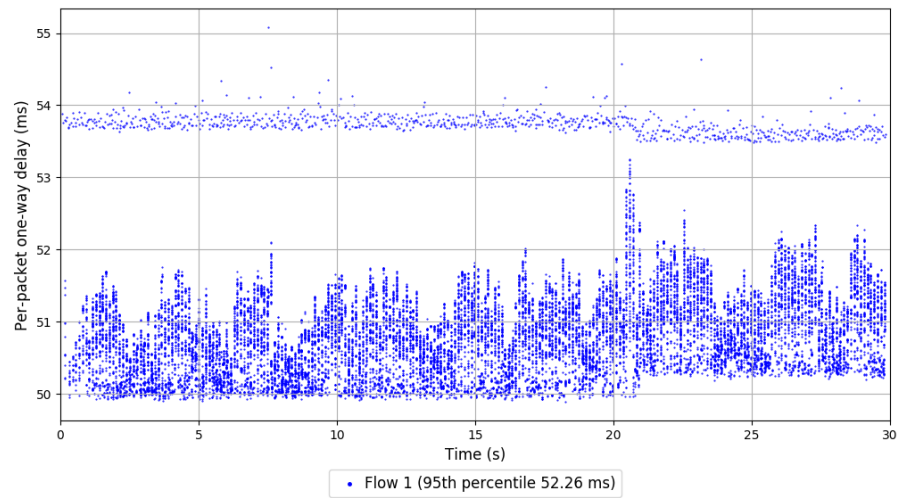
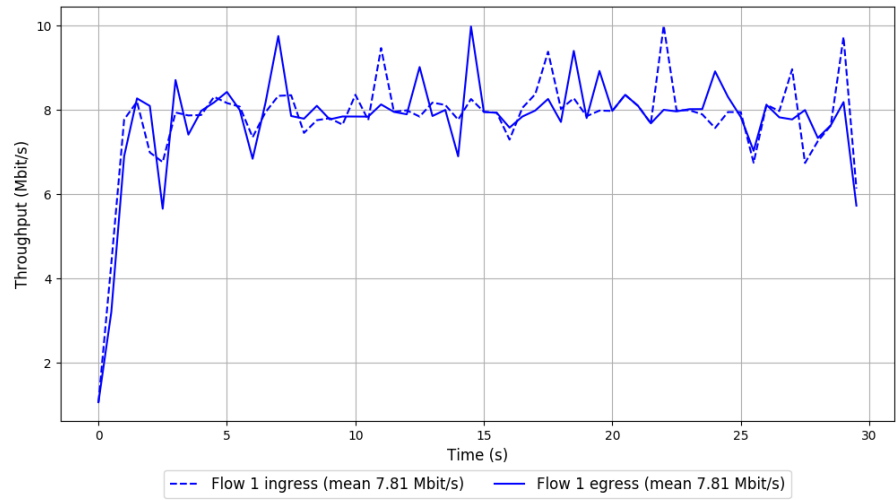
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 52.264 ms

Loss rate: 0.42%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-20 01:59:39

End at: 2018-02-20 02:00:09

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.530 ms

Loss rate: 0.42%

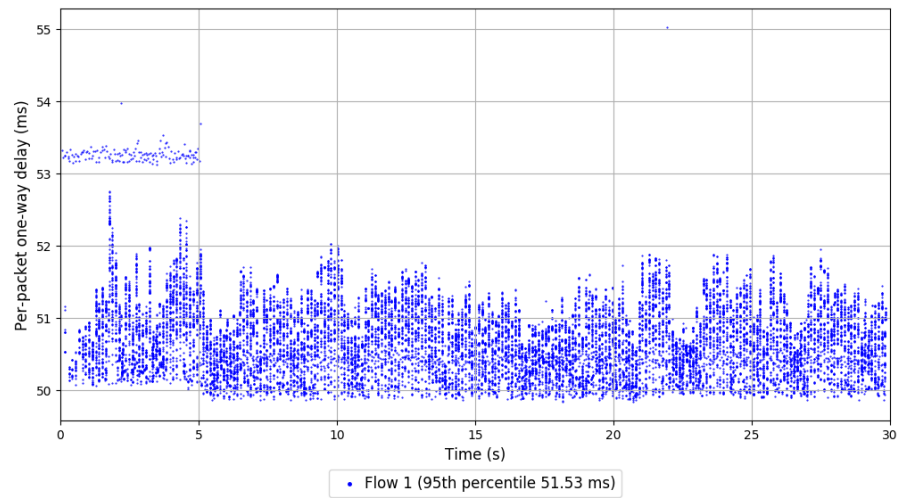
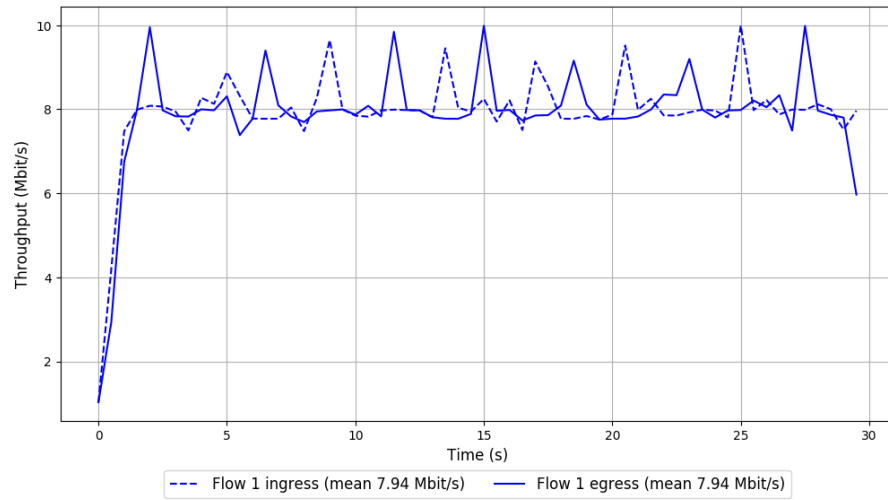
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.530 ms

Loss rate: 0.42%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-20 02:14:20

End at: 2018-02-20 02:14:50

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 51.736 ms

Loss rate: 0.43%

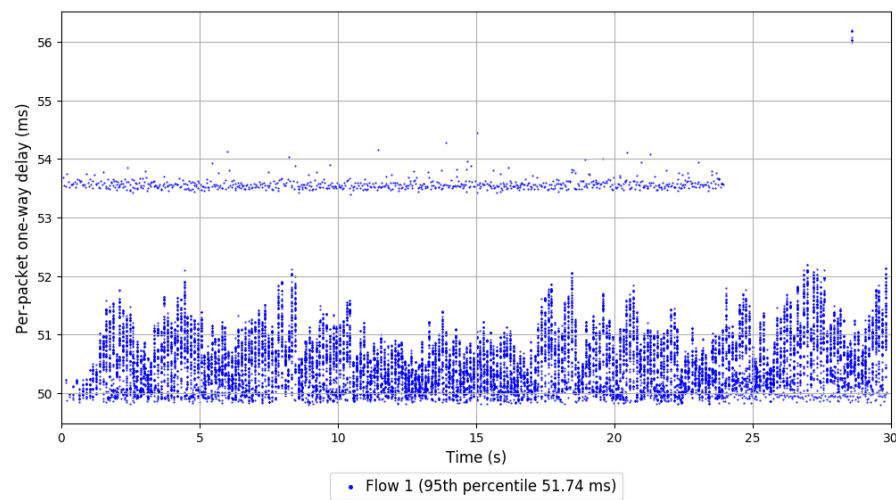
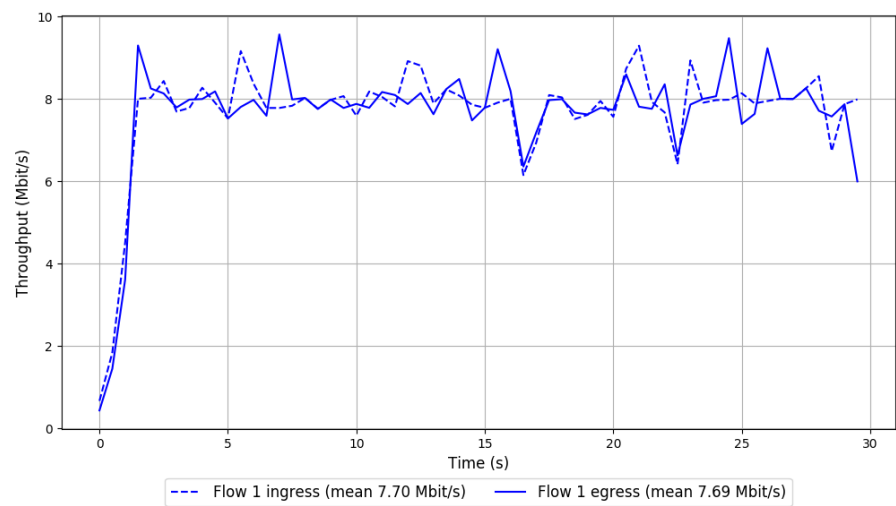
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 51.736 ms

Loss rate: 0.43%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-20 02:29:40

End at: 2018-02-20 02:30:10

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 52.675 ms

Loss rate: 0.42%

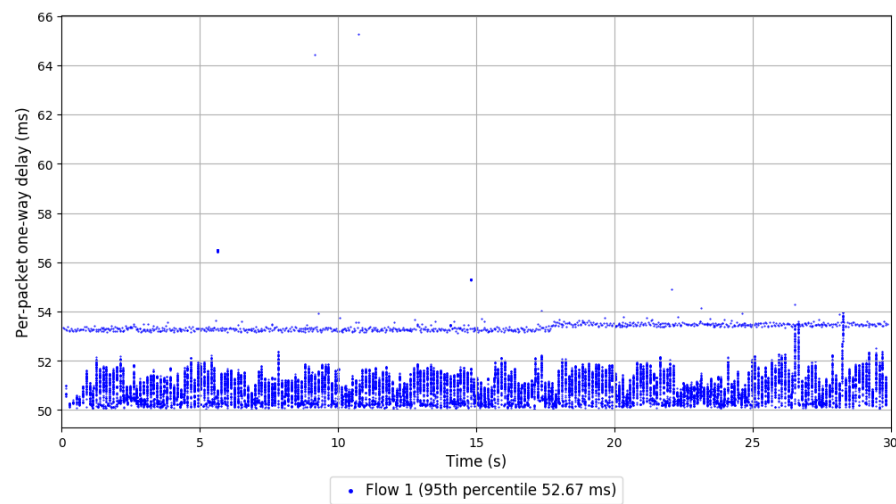
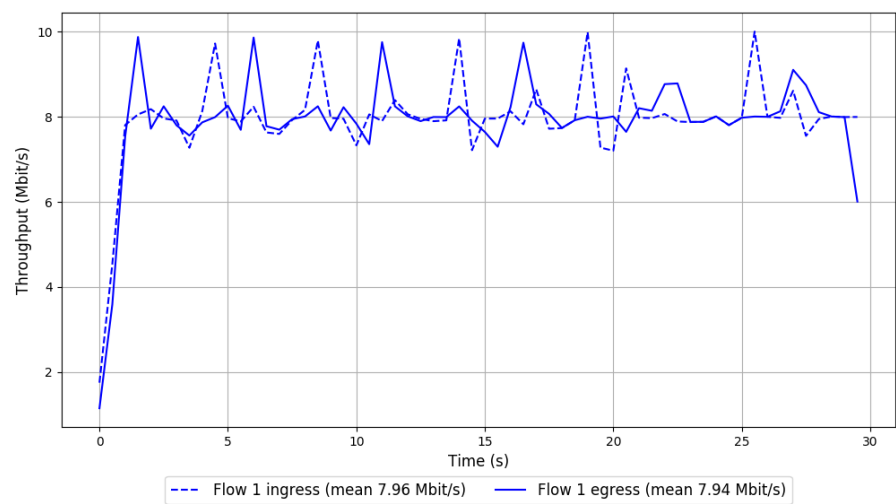
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 52.675 ms

Loss rate: 0.42%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-20 02:44:38

End at: 2018-02-20 02:45:08

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.962 ms

Loss rate: 0.42%

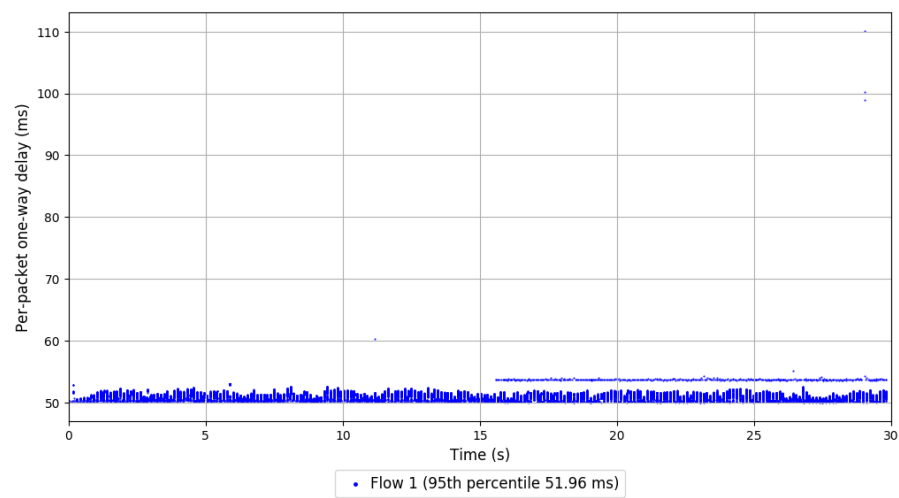
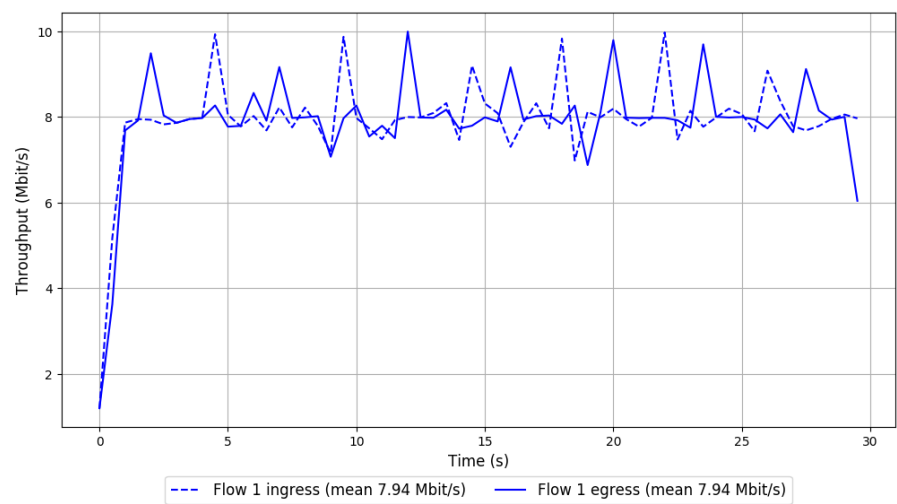
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.962 ms

Loss rate: 0.42%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-20 02:59:25

End at: 2018-02-20 02:59:55

Below is generated by plot.py at 2018-02-20 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.884 ms

Loss rate: 0.34%

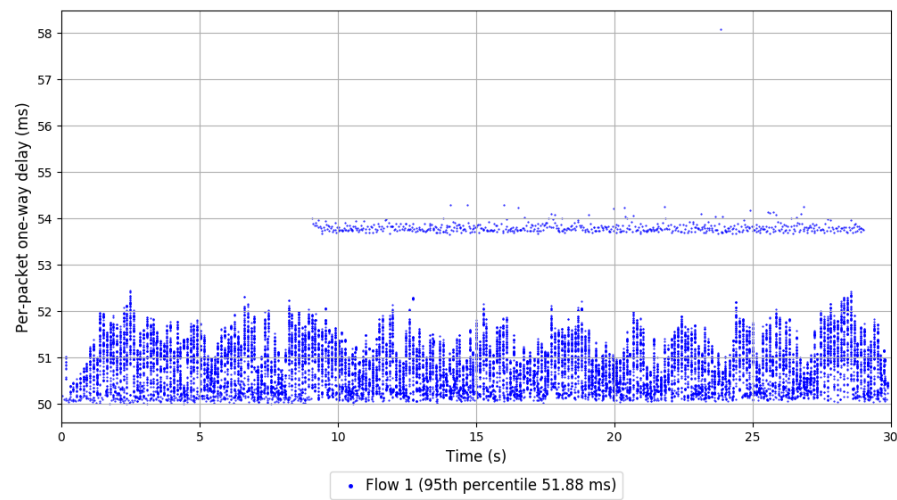
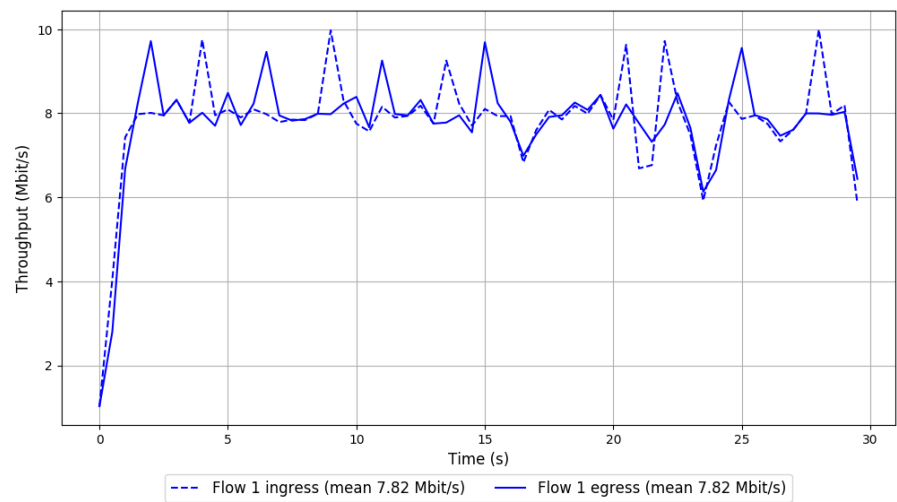
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.884 ms

Loss rate: 0.34%

Run 10: Report of Sprout — Data Link

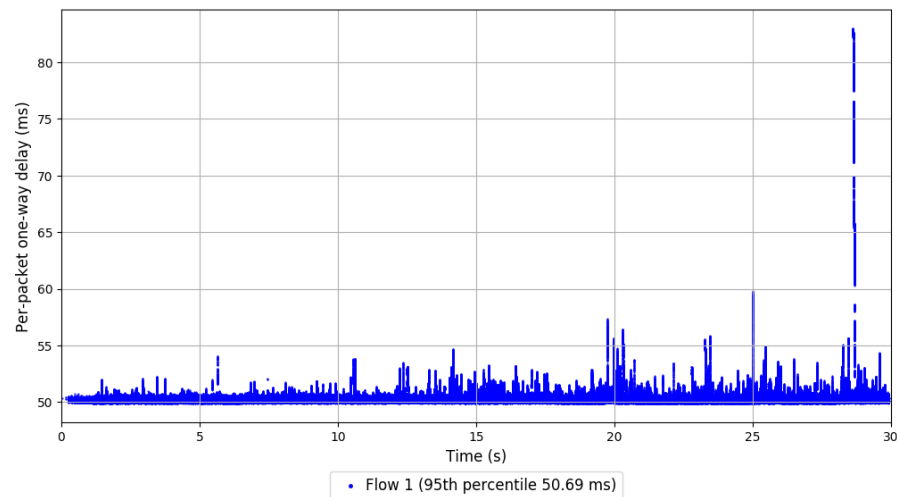
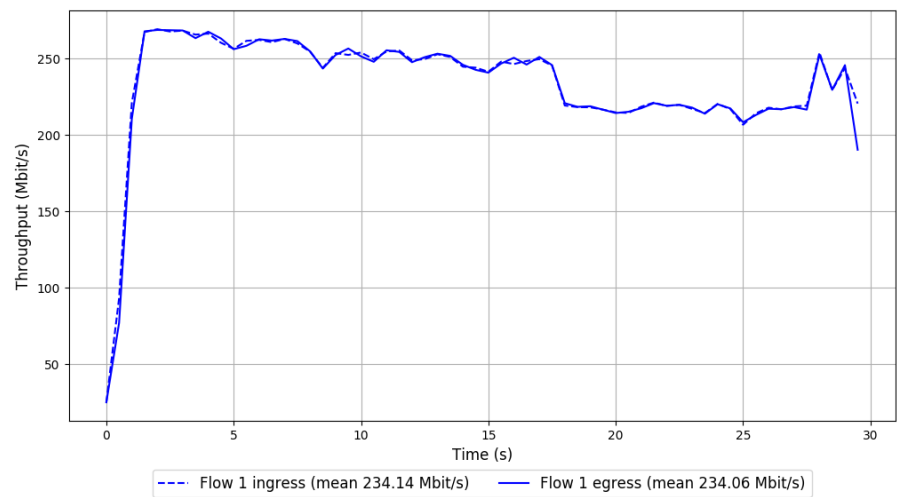


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-20 00:59:53
End at: 2018-02-20 01:00:23

# Below is generated by plot.py at 2018-02-20 06:17:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.06 Mbit/s
95th percentile per-packet one-way delay: 50.687 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 234.06 Mbit/s
95th percentile per-packet one-way delay: 50.687 ms
Loss rate: 0.39%
```


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

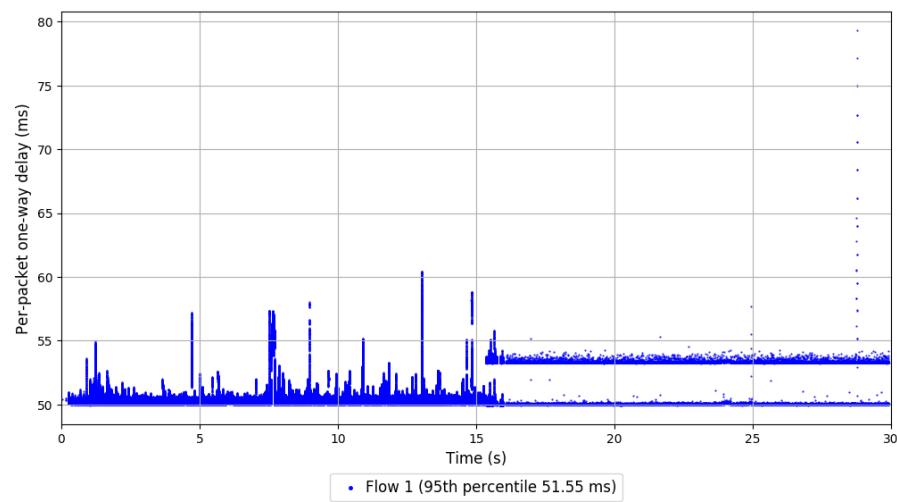
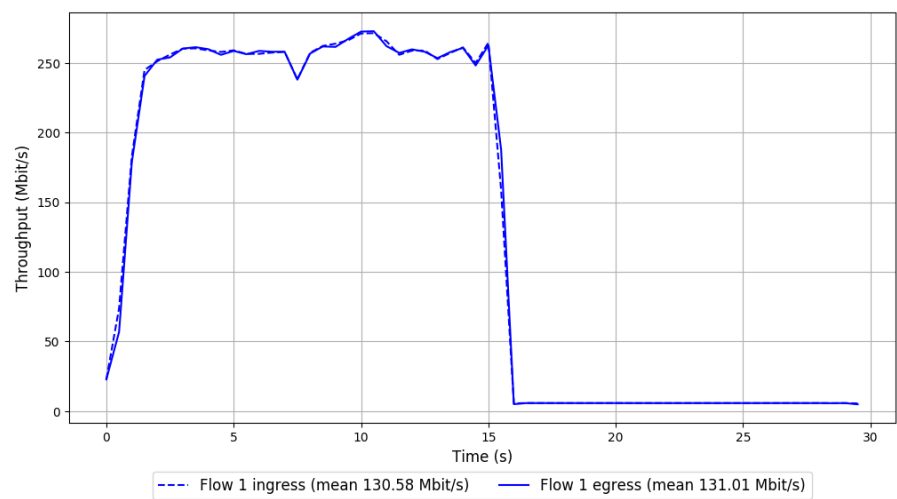


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-20 01:14:18
End at: 2018-02-20 01:14:48

# Below is generated by plot.py at 2018-02-20 06:17:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.01 Mbit/s
95th percentile per-packet one-way delay: 51.549 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 131.01 Mbit/s
95th percentile per-packet one-way delay: 51.549 ms
Loss rate: 0.02%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-20 01:28:34

End at: 2018-02-20 01:29:04

Below is generated by plot.py at 2018-02-20 06:18:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.35 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 0.32%

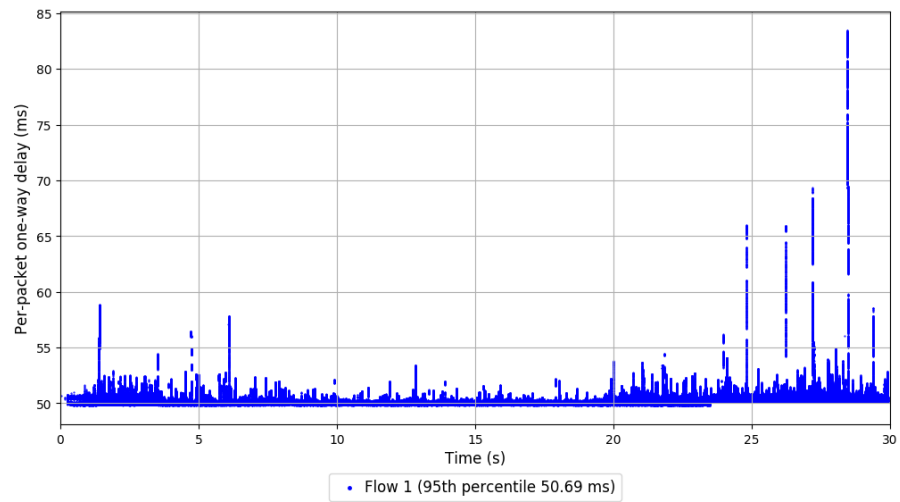
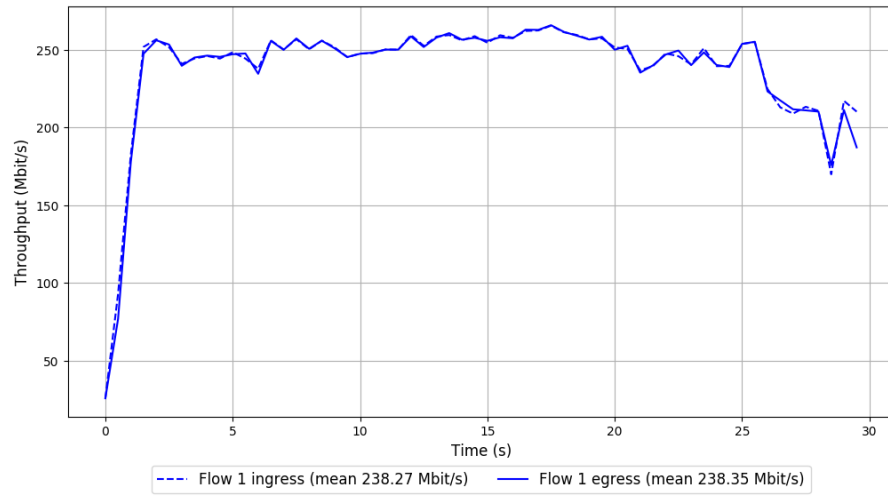
-- Flow 1:

Average throughput: 238.35 Mbit/s

95th percentile per-packet one-way delay: 50.686 ms

Loss rate: 0.32%

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

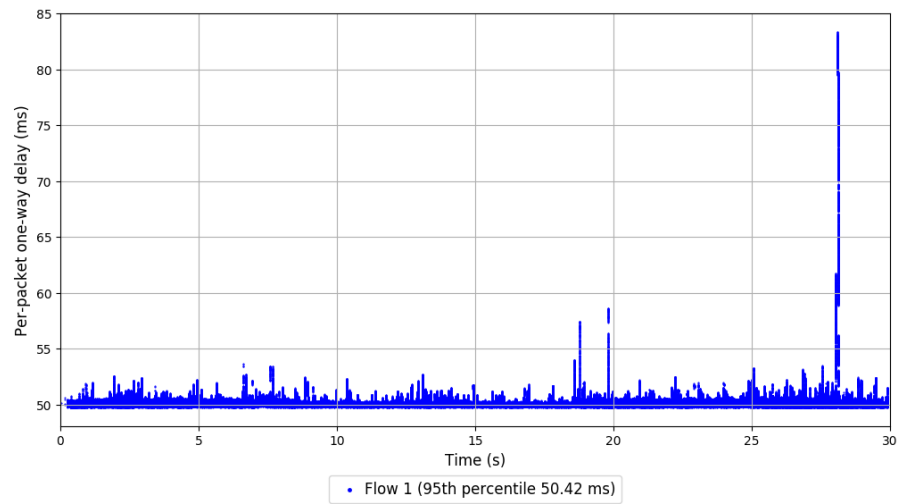
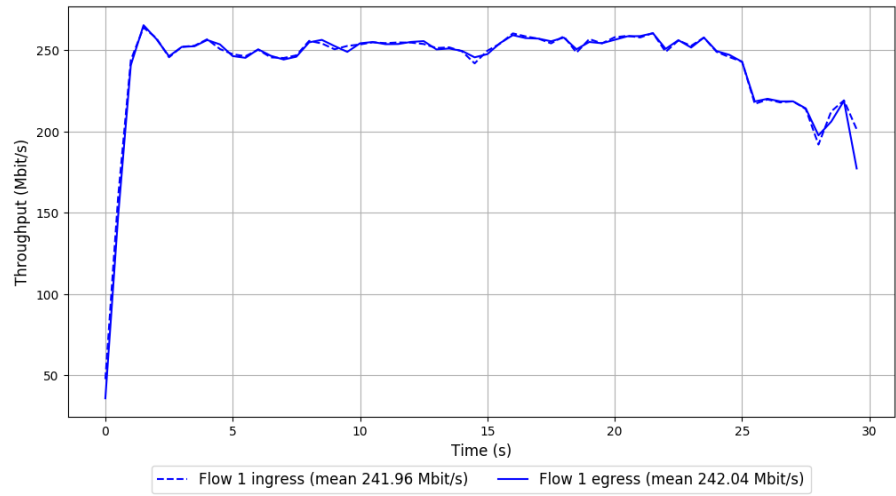


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-20 01:43:05
End at: 2018-02-20 01:43:35

# Below is generated by plot.py at 2018-02-20 06:18:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 242.04 Mbit/s
95th percentile per-packet one-way delay: 50.418 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 242.04 Mbit/s
95th percentile per-packet one-way delay: 50.418 ms
Loss rate: 0.32%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-20 01:57:35

End at: 2018-02-20 01:58:05

Below is generated by plot.py at 2018-02-20 06:18:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.38 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.04%

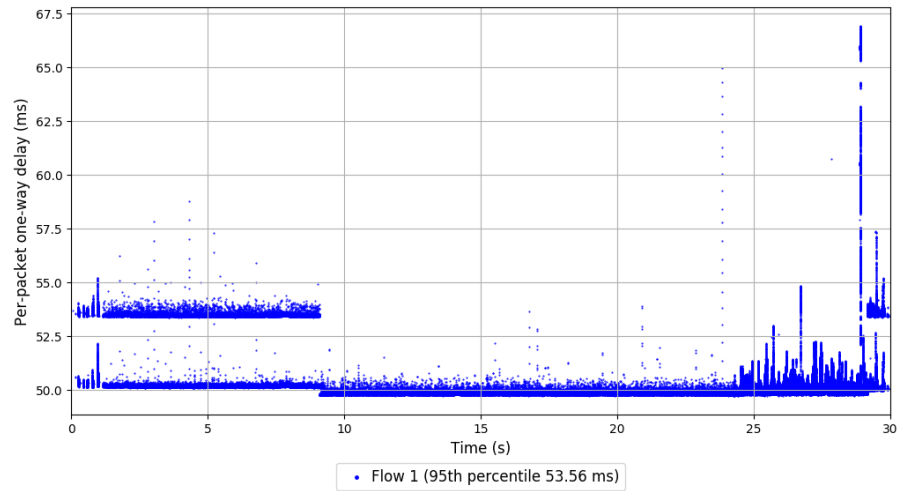
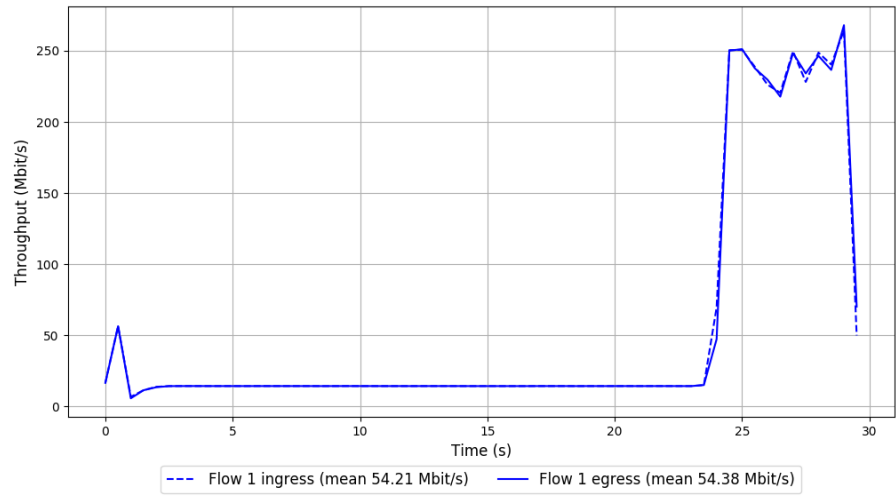
-- Flow 1:

Average throughput: 54.38 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.04%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-20 02:11:59

End at: 2018-02-20 02:12:29

Below is generated by plot.py at 2018-02-20 06:18:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.39 Mbit/s

95th percentile per-packet one-way delay: 50.200 ms

Loss rate: 0.36%

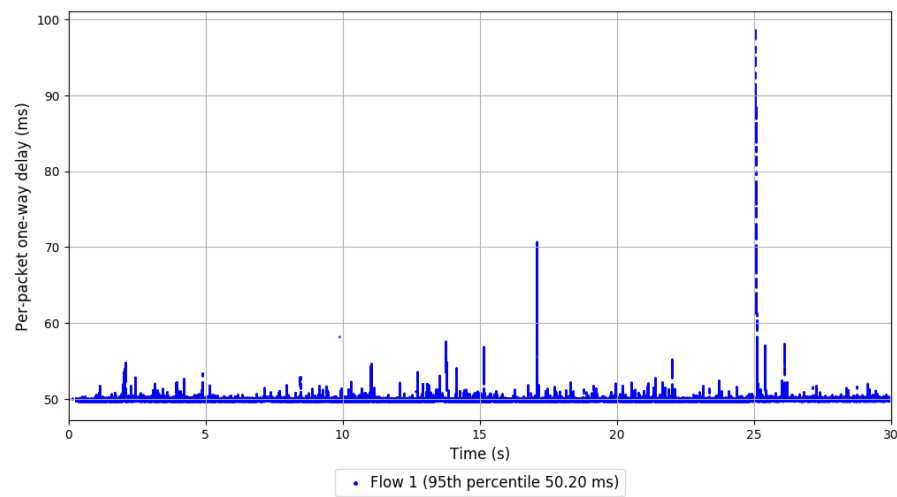
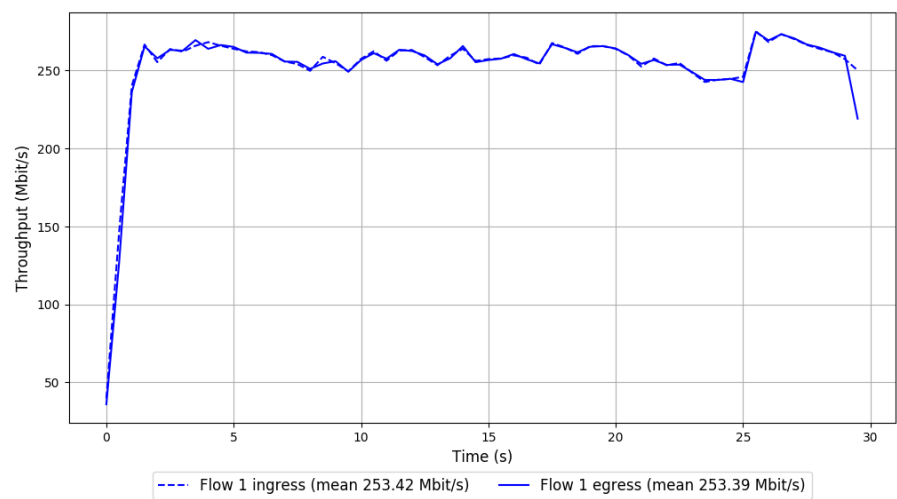
-- Flow 1:

Average throughput: 253.39 Mbit/s

95th percentile per-packet one-way delay: 50.200 ms

Loss rate: 0.36%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-20 02:27:17

End at: 2018-02-20 02:27:47

Below is generated by plot.py at 2018-02-20 06:20:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.76 Mbit/s

95th percentile per-packet one-way delay: 50.224 ms

Loss rate: 0.35%

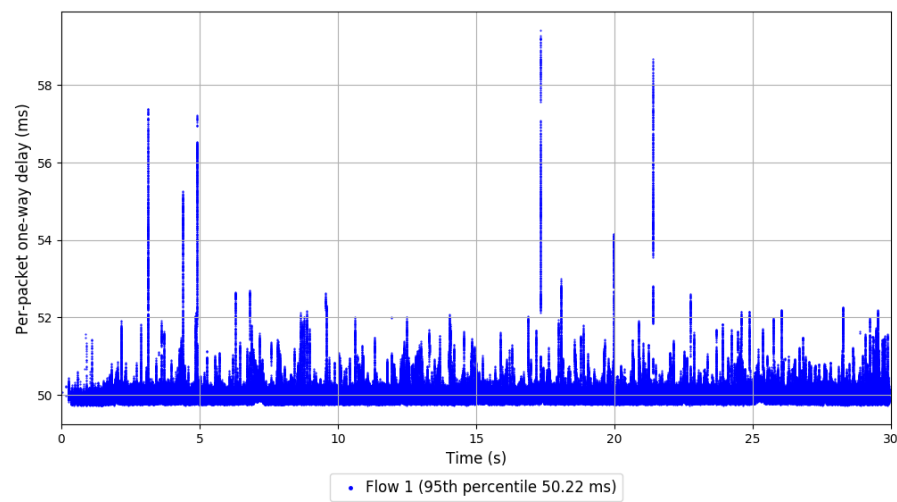
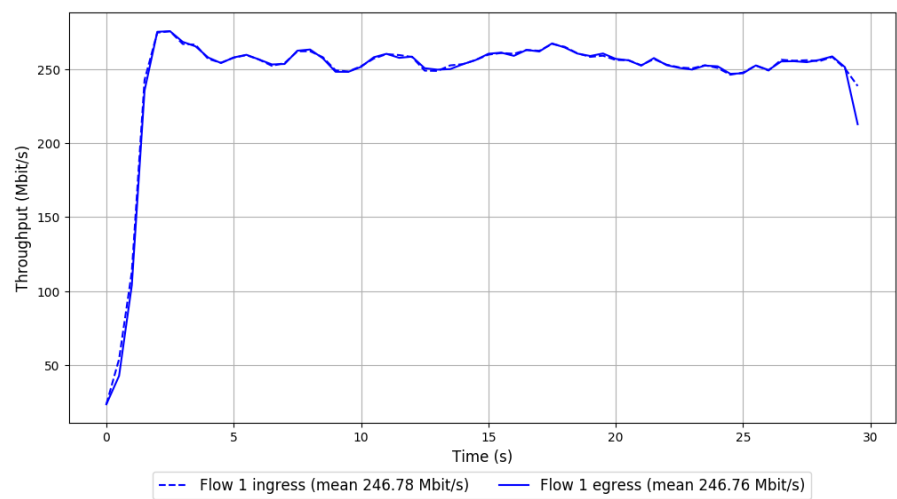
-- Flow 1:

Average throughput: 246.76 Mbit/s

95th percentile per-packet one-way delay: 50.224 ms

Loss rate: 0.35%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-20 02:42:30

End at: 2018-02-20 02:43:00

Below is generated by plot.py at 2018-02-20 06:20:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.67 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.02%

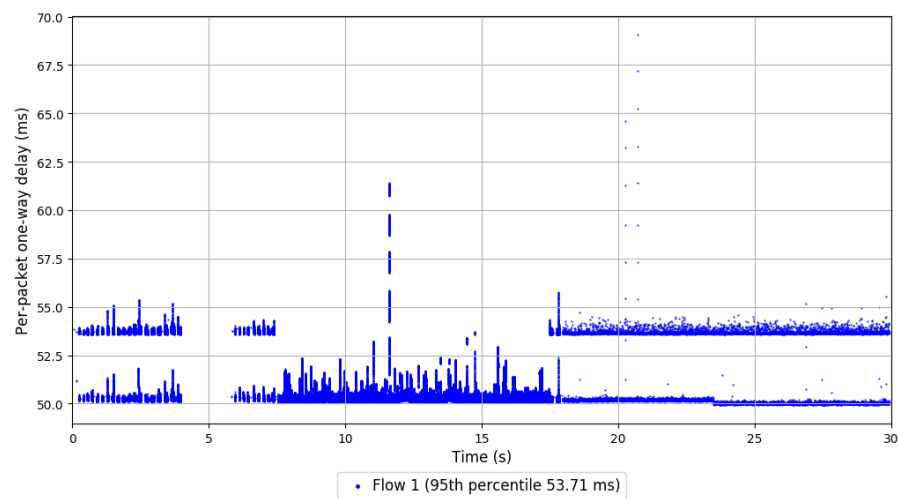
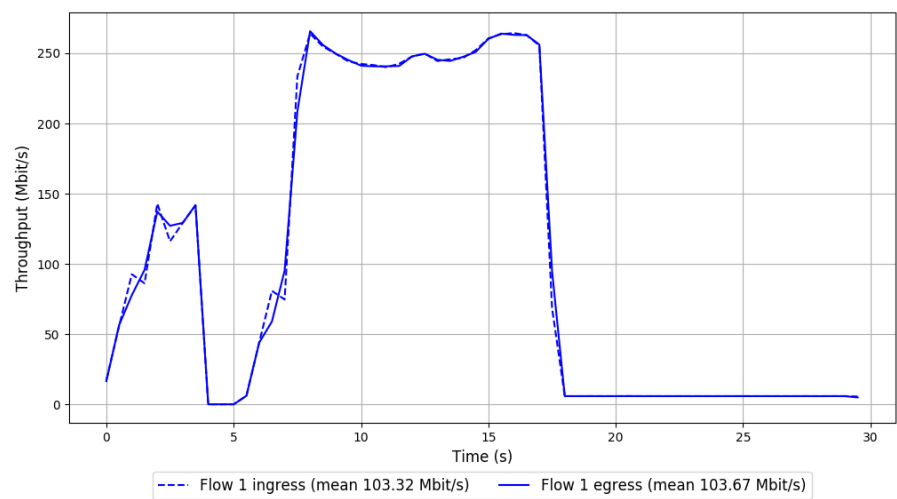
-- Flow 1:

Average throughput: 103.67 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-20 02:57:04

End at: 2018-02-20 02:57:34

Below is generated by plot.py at 2018-02-20 06:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.70 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.34%

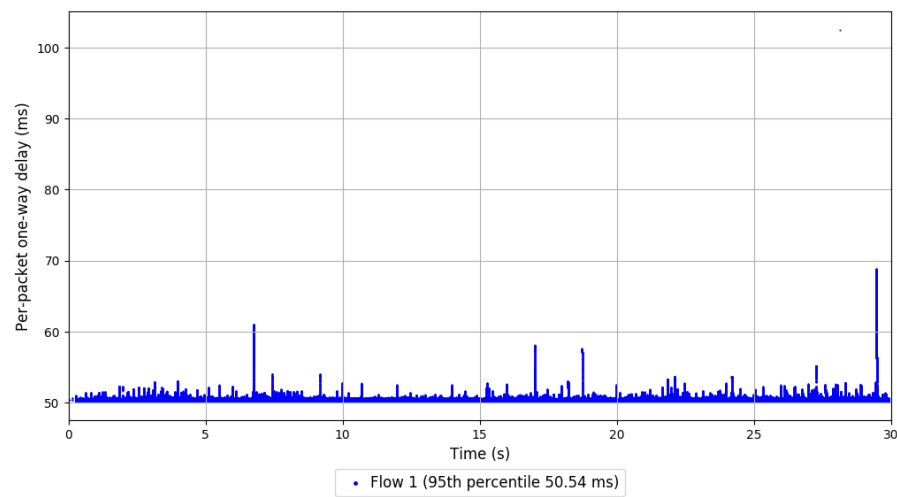
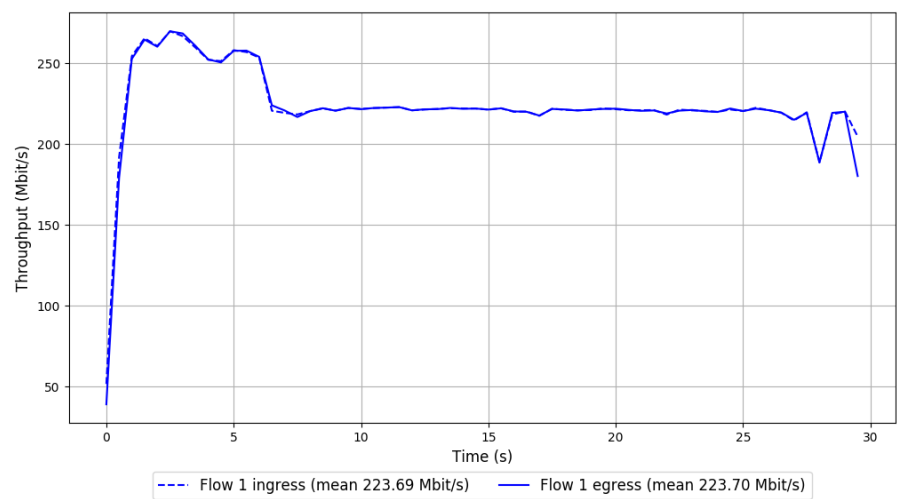
-- Flow 1:

Average throughput: 223.70 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.34%

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

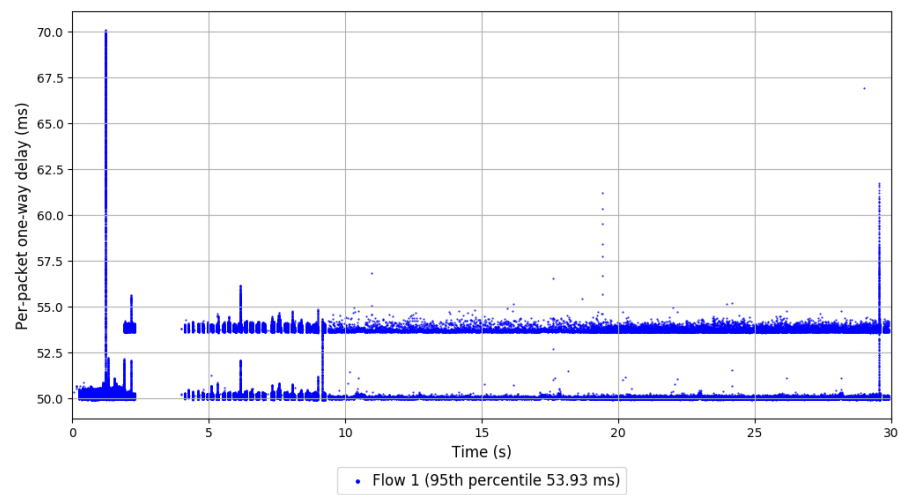
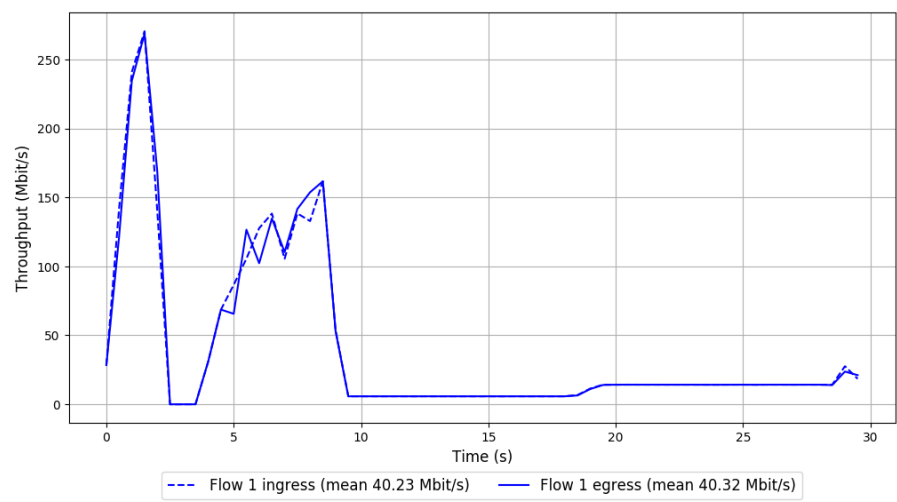


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-20 03:12:02
End at: 2018-02-20 03:12:32

# Below is generated by plot.py at 2018-02-20 06:22:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.32 Mbit/s
95th percentile per-packet one-way delay: 53.929 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 40.32 Mbit/s
95th percentile per-packet one-way delay: 53.929 ms
Loss rate: 0.12%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-20 00:54:57

End at: 2018-02-20 00:55:27

Below is generated by plot.py at 2018-02-20 06:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.44 Mbit/s

95th percentile per-packet one-way delay: 57.608 ms

Loss rate: 0.22%

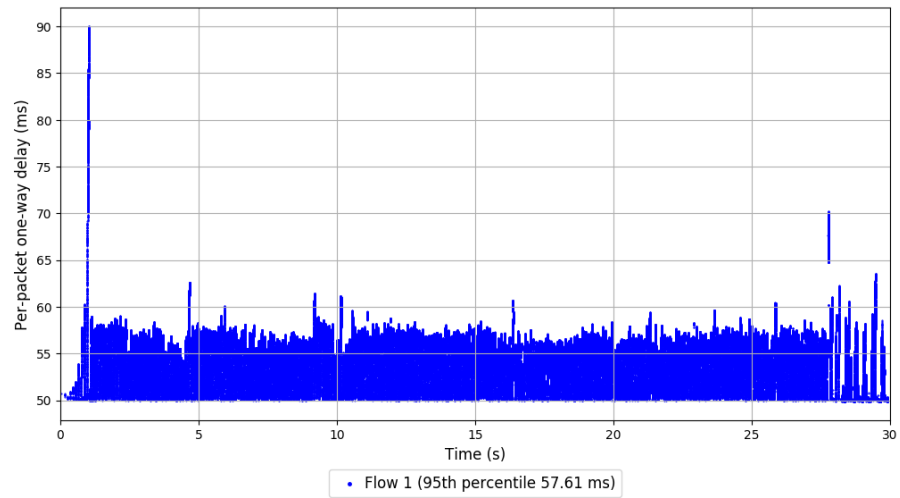
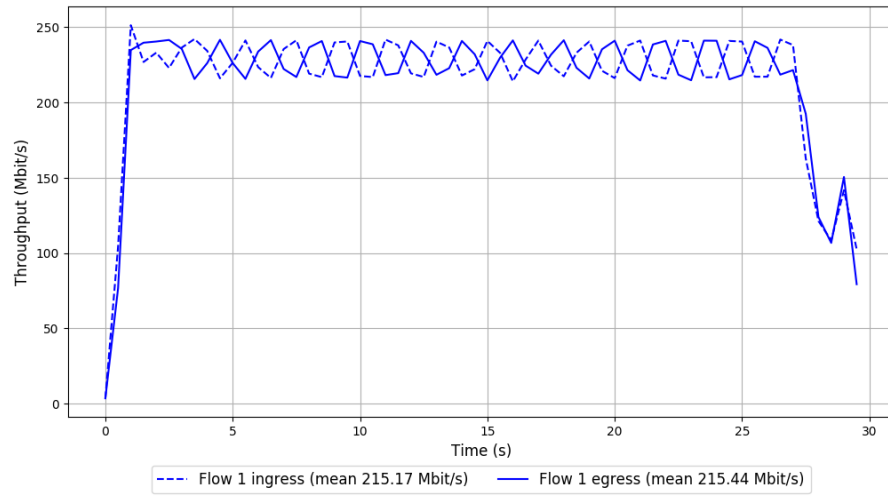
-- Flow 1:

Average throughput: 215.44 Mbit/s

95th percentile per-packet one-way delay: 57.608 ms

Loss rate: 0.22%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-20 01:09:34

End at: 2018-02-20 01:10:04

Below is generated by plot.py at 2018-02-20 06:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.85 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 0.33%

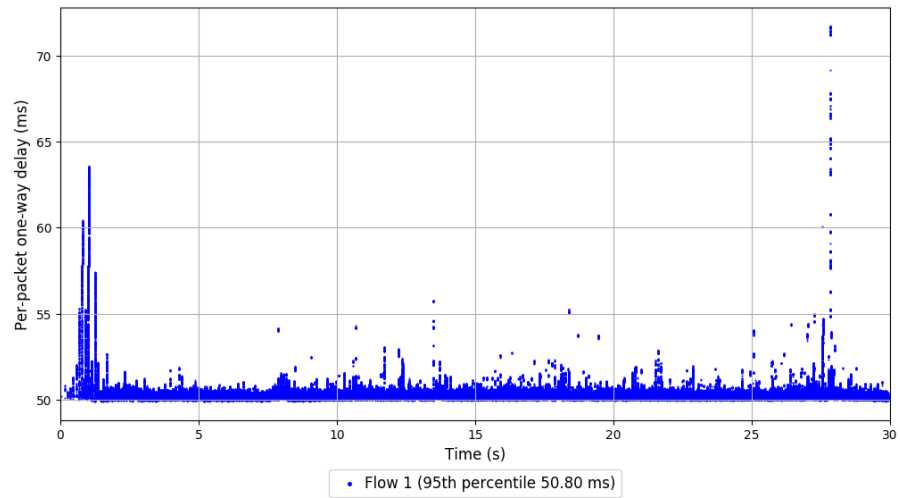
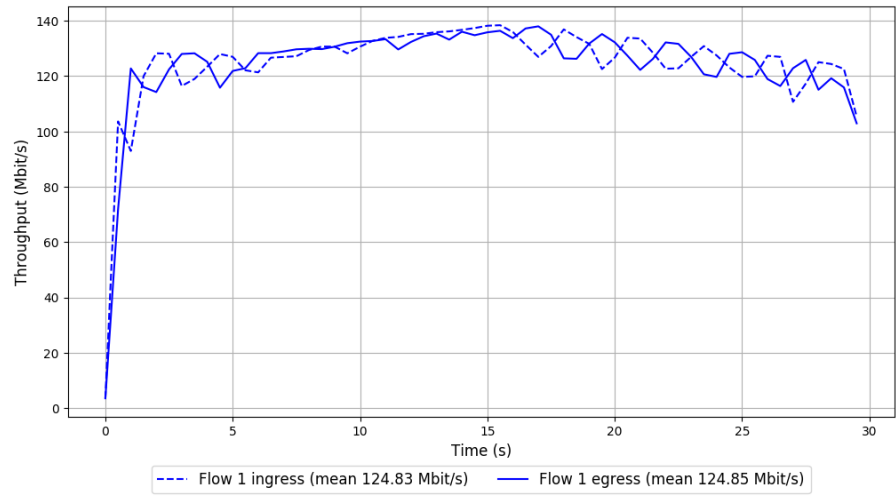
-- Flow 1:

Average throughput: 124.85 Mbit/s

95th percentile per-packet one-way delay: 50.804 ms

Loss rate: 0.33%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-20 01:23:54

End at: 2018-02-20 01:24:24

Below is generated by plot.py at 2018-02-20 06:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.57 Mbit/s

95th percentile per-packet one-way delay: 50.870 ms

Loss rate: 0.37%

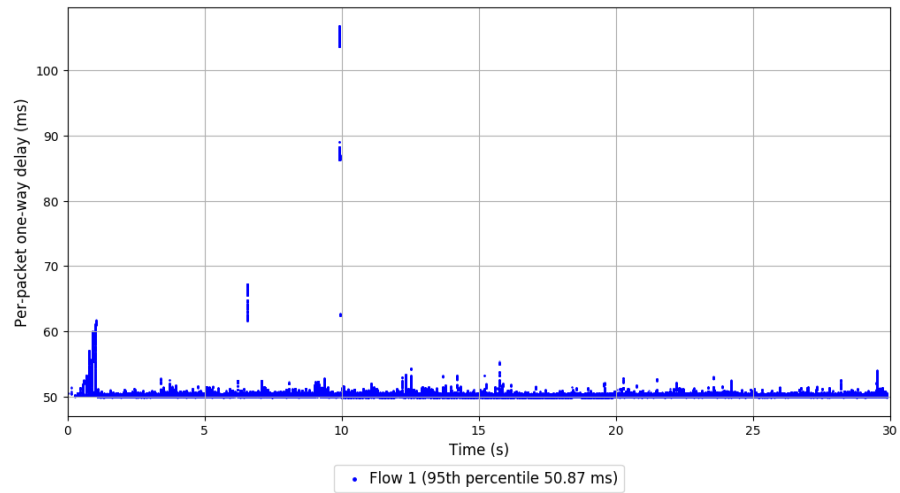
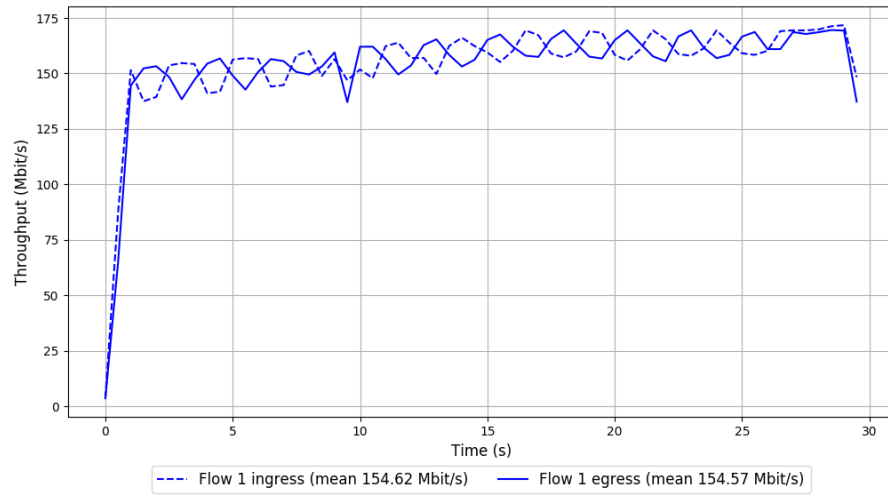
-- Flow 1:

Average throughput: 154.57 Mbit/s

95th percentile per-packet one-way delay: 50.870 ms

Loss rate: 0.37%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-20 01:38:12

End at: 2018-02-20 01:38:42

Below is generated by plot.py at 2018-02-20 06:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 56.871 ms

Loss rate: 0.17%

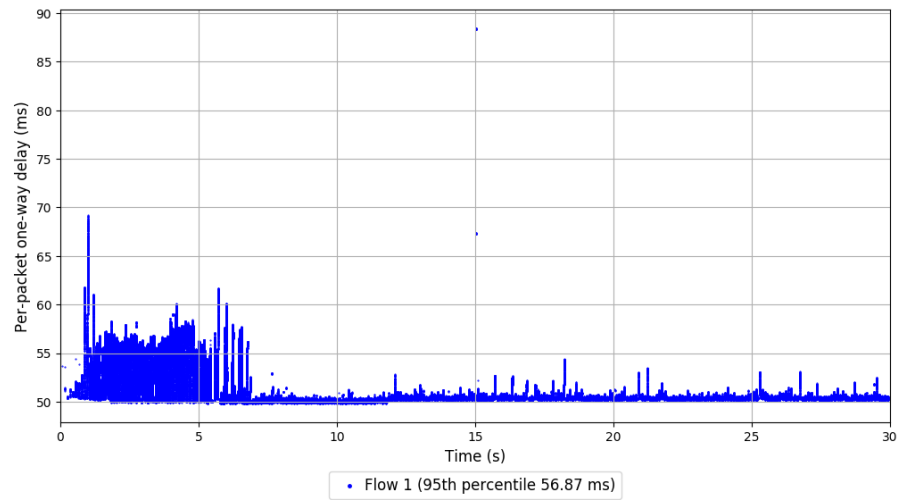
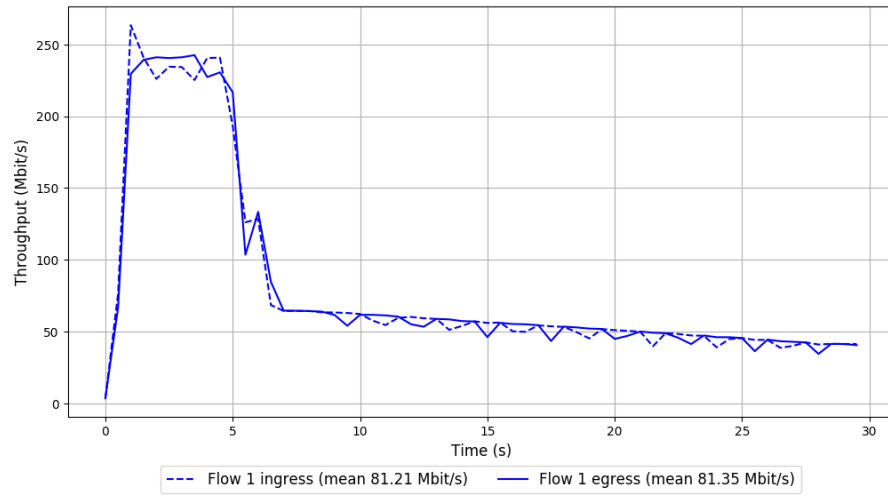
-- Flow 1:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 56.871 ms

Loss rate: 0.17%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-20 01:52:50

End at: 2018-02-20 01:53:20

Below is generated by plot.py at 2018-02-20 06:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.30 Mbit/s

95th percentile per-packet one-way delay: 51.198 ms

Loss rate: 0.32%

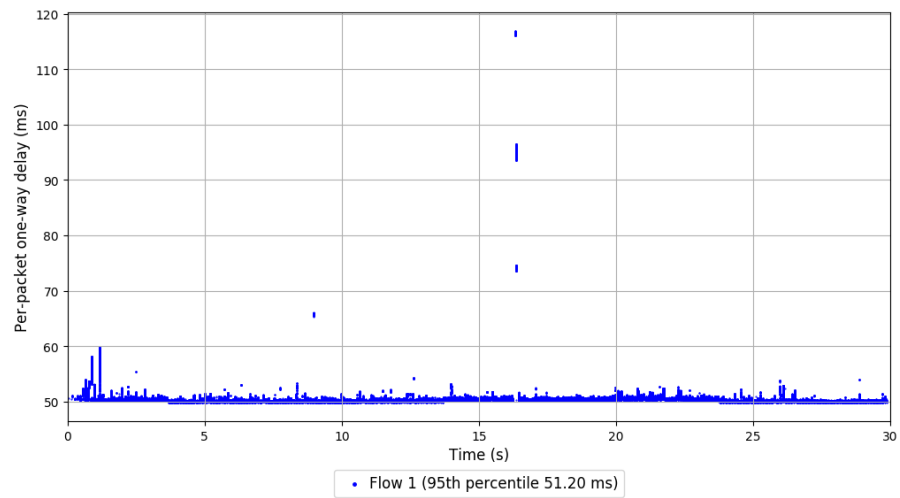
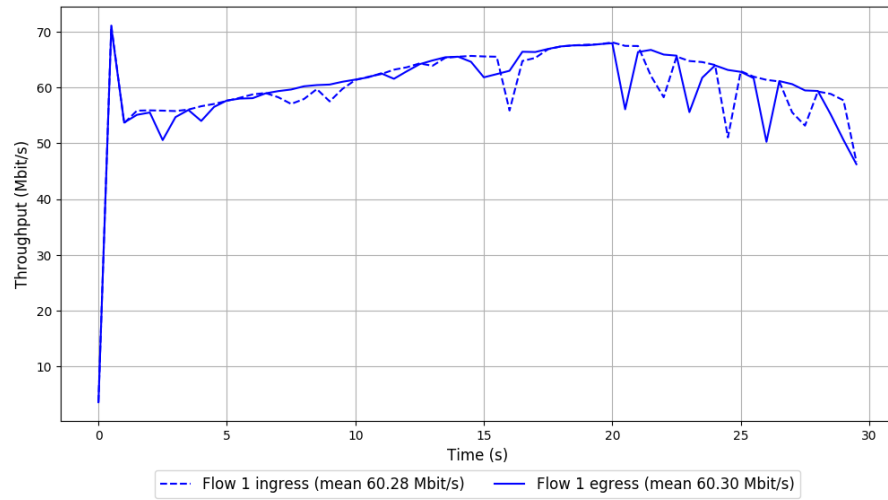
-- Flow 1:

Average throughput: 60.30 Mbit/s

95th percentile per-packet one-way delay: 51.198 ms

Loss rate: 0.32%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-20 02:07:06

End at: 2018-02-20 02:07:36

Below is generated by plot.py at 2018-02-20 06:22:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.78 Mbit/s

95th percentile per-packet one-way delay: 51.130 ms

Loss rate: 0.34%

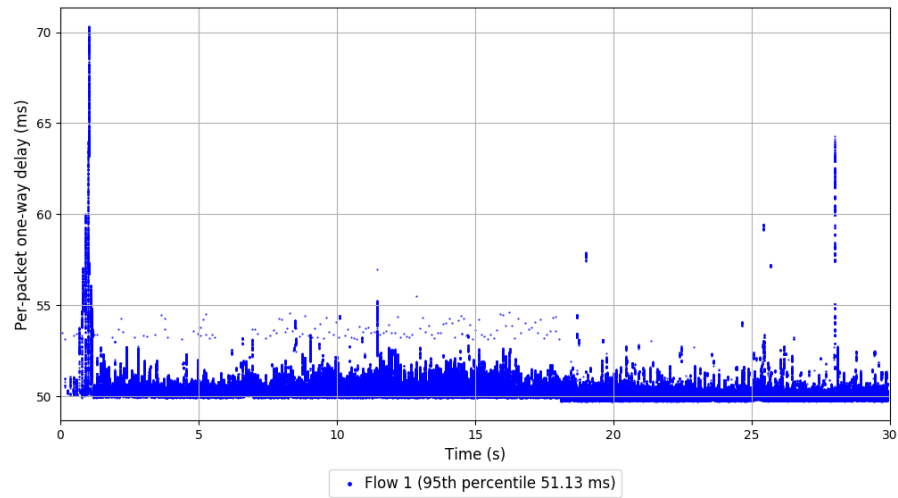
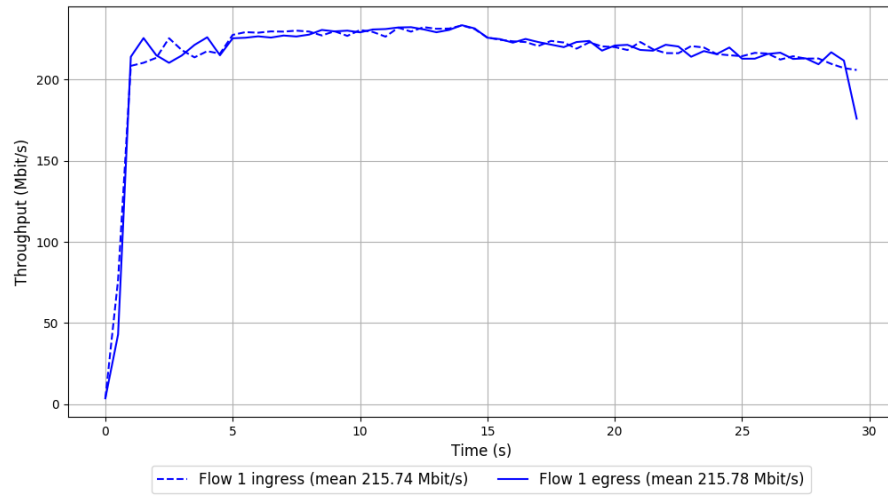
-- Flow 1:

Average throughput: 215.78 Mbit/s

95th percentile per-packet one-way delay: 51.130 ms

Loss rate: 0.34%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-20 02:21:53

End at: 2018-02-20 02:22:23

Below is generated by plot.py at 2018-02-20 06:23:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.00 Mbit/s

95th percentile per-packet one-way delay: 57.462 ms

Loss rate: 0.35%

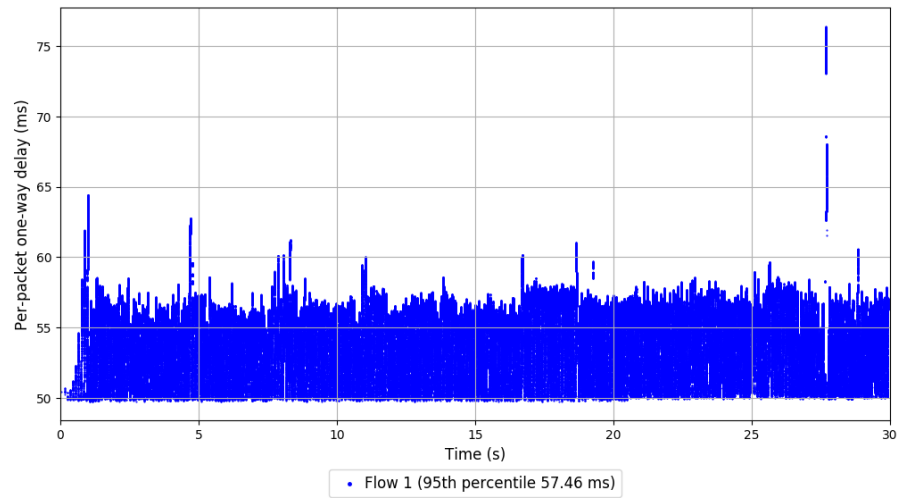
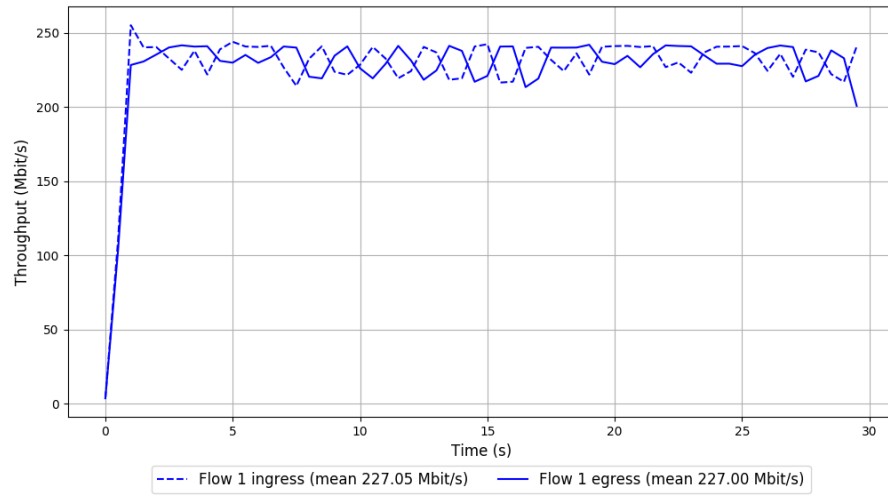
-- Flow 1:

Average throughput: 227.00 Mbit/s

95th percentile per-packet one-way delay: 57.462 ms

Loss rate: 0.35%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-20 02:37:11

End at: 2018-02-20 02:37:41

Below is generated by plot.py at 2018-02-20 06:23:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.73 Mbit/s

95th percentile per-packet one-way delay: 57.201 ms

Loss rate: 0.14%

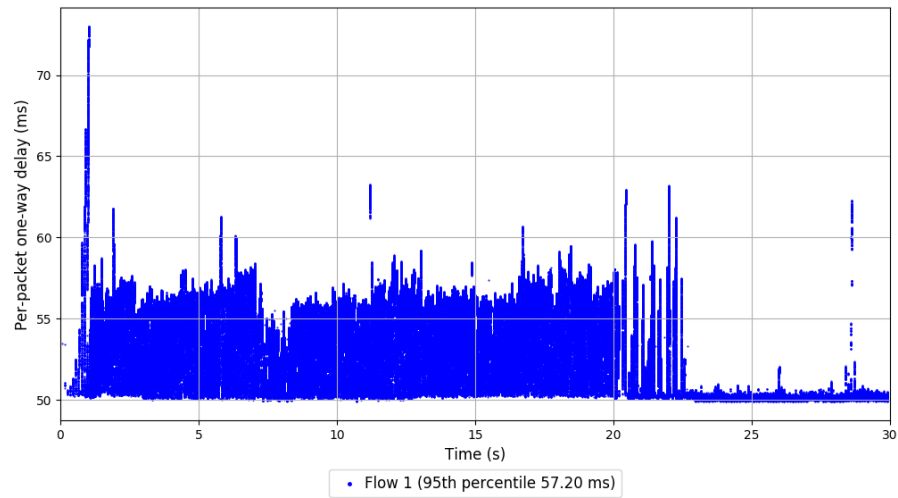
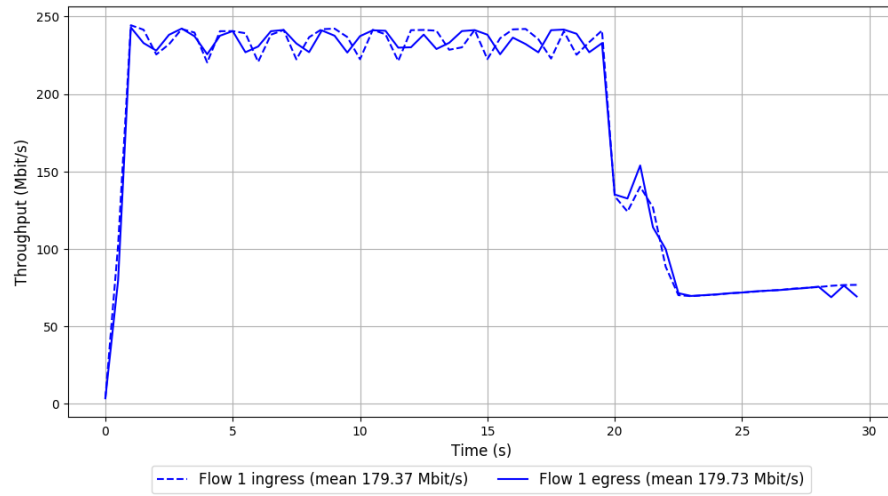
-- Flow 1:

Average throughput: 179.73 Mbit/s

95th percentile per-packet one-way delay: 57.201 ms

Loss rate: 0.14%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-20 02:52:05

End at: 2018-02-20 02:52:35

Below is generated by plot.py at 2018-02-20 06:23:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.95 Mbit/s

95th percentile per-packet one-way delay: 58.283 ms

Loss rate: 0.15%

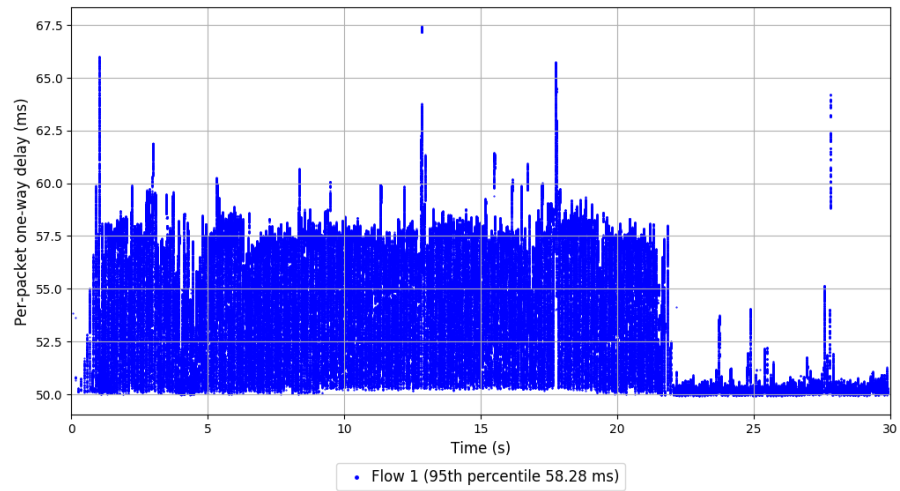
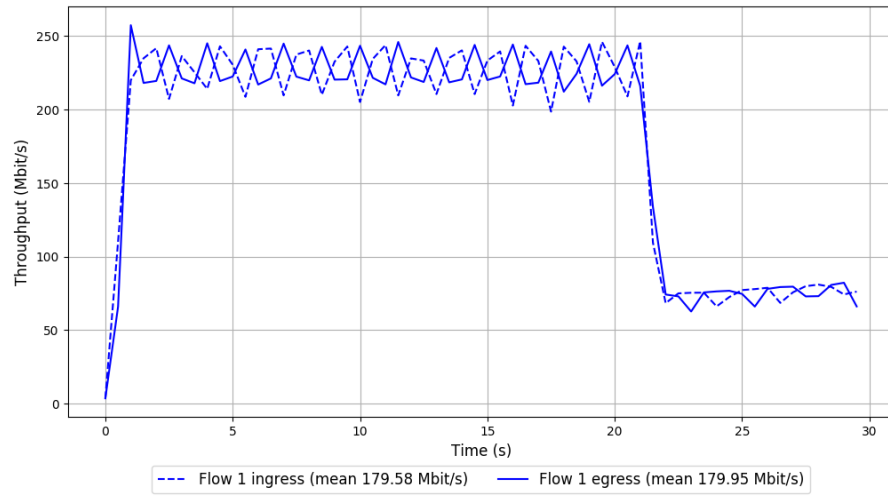
-- Flow 1:

Average throughput: 179.95 Mbit/s

95th percentile per-packet one-way delay: 58.283 ms

Loss rate: 0.15%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-20 03:07:00

End at: 2018-02-20 03:07:30

Below is generated by plot.py at 2018-02-20 06:23:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.51 Mbit/s

95th percentile per-packet one-way delay: 50.990 ms

Loss rate: 0.42%

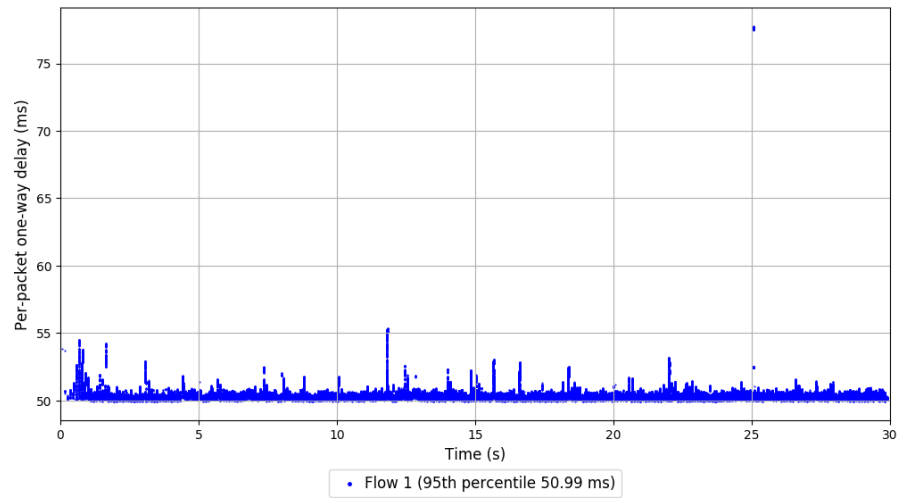
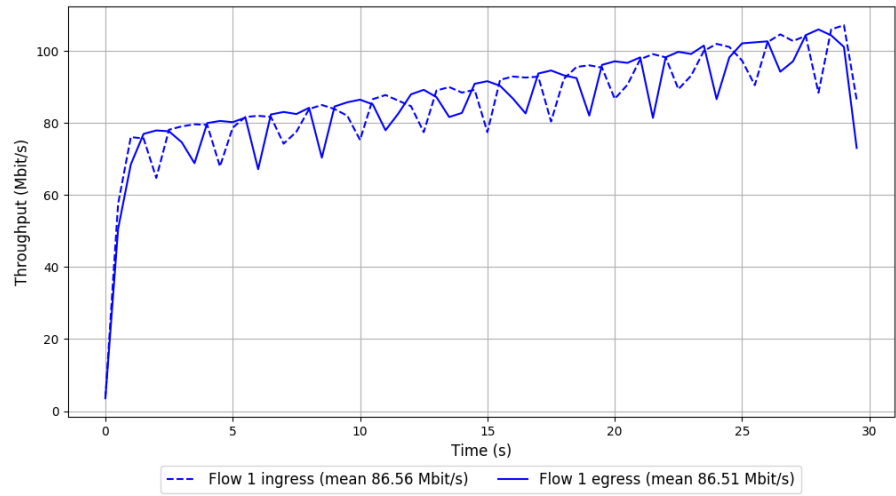
-- Flow 1:

Average throughput: 86.51 Mbit/s

95th percentile per-packet one-way delay: 50.990 ms

Loss rate: 0.42%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-20 00:54:05

End at: 2018-02-20 00:54:35

Below is generated by plot.py at 2018-02-20 06:24:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.57 Mbit/s

95th percentile per-packet one-way delay: 244.339 ms

Loss rate: 3.62%

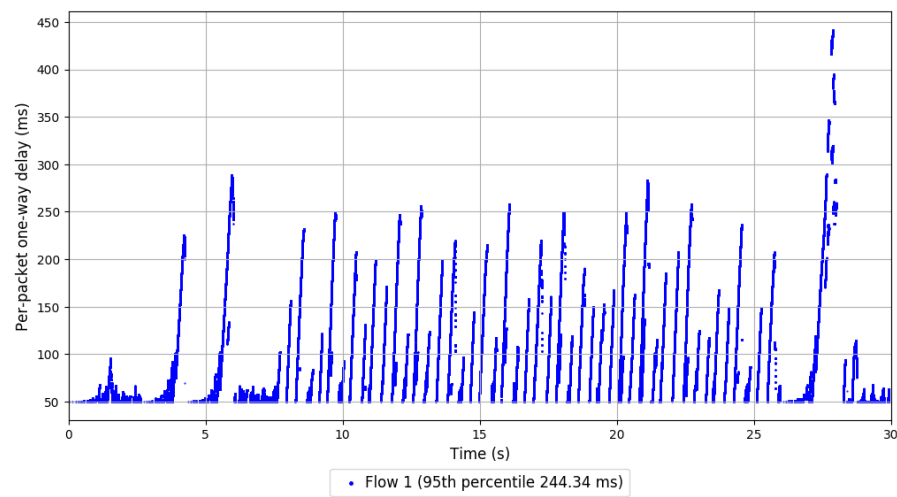
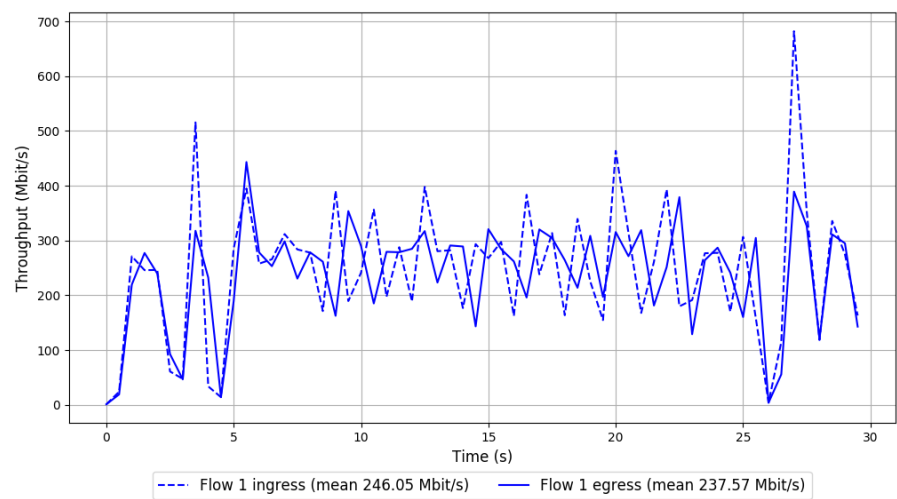
-- Flow 1:

Average throughput: 237.57 Mbit/s

95th percentile per-packet one-way delay: 244.339 ms

Loss rate: 3.62%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-20 01:08:42

End at: 2018-02-20 01:09:12

Below is generated by plot.py at 2018-02-20 06:25:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.29 Mbit/s

95th percentile per-packet one-way delay: 124.462 ms

Loss rate: 0.32%

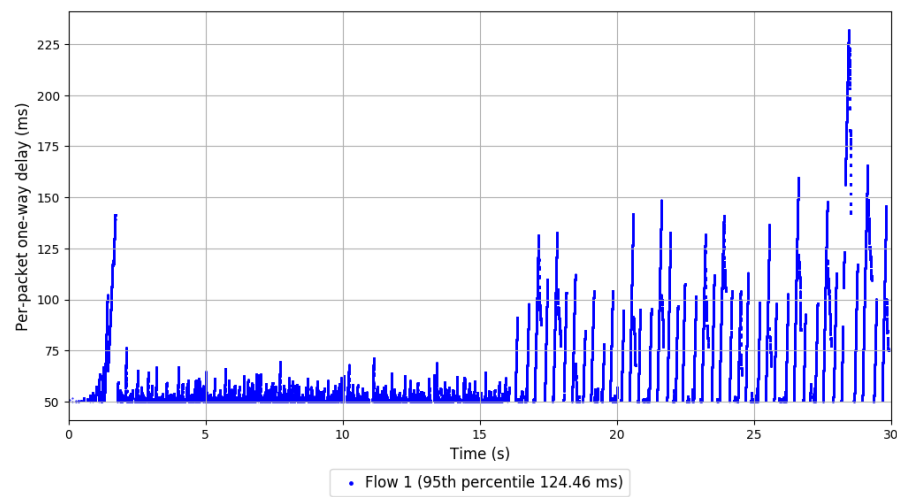
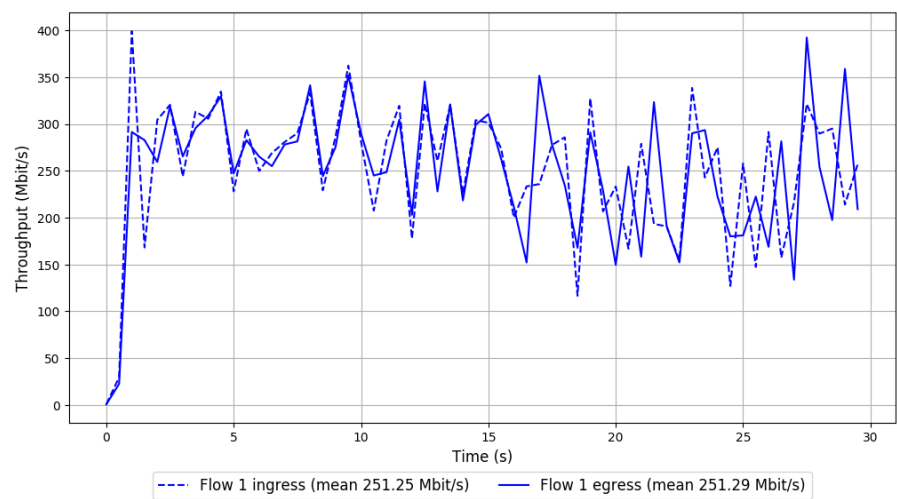
-- Flow 1:

Average throughput: 251.29 Mbit/s

95th percentile per-packet one-way delay: 124.462 ms

Loss rate: 0.32%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-20 01:23:01

End at: 2018-02-20 01:23:31

Below is generated by plot.py at 2018-02-20 06:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.20 Mbit/s

95th percentile per-packet one-way delay: 188.757 ms

Loss rate: 2.77%

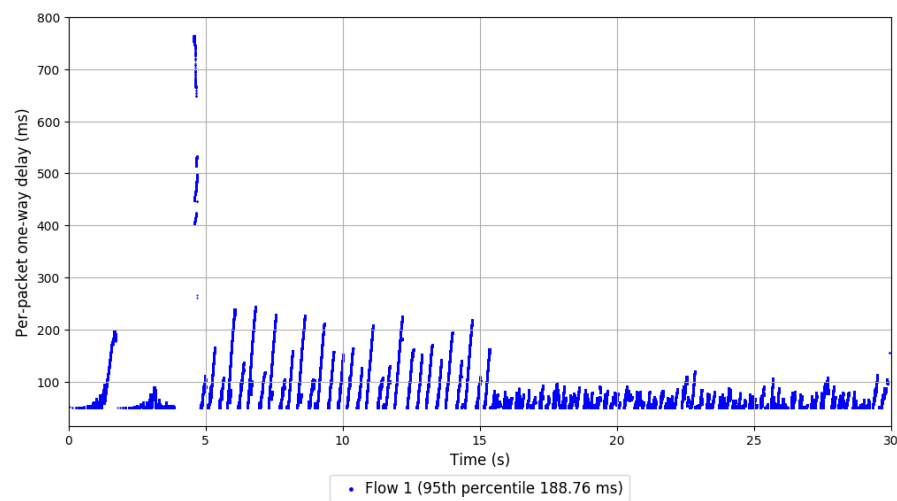
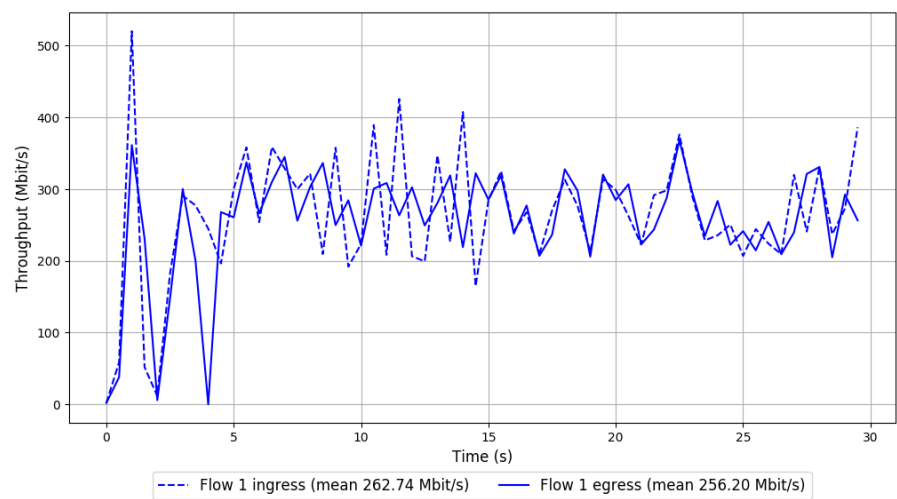
-- Flow 1:

Average throughput: 256.20 Mbit/s

95th percentile per-packet one-way delay: 188.757 ms

Loss rate: 2.77%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-20 01:37:20

End at: 2018-02-20 01:37:50

Below is generated by plot.py at 2018-02-20 06:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.50 Mbit/s

95th percentile per-packet one-way delay: 71.138 ms

Loss rate: 0.46%

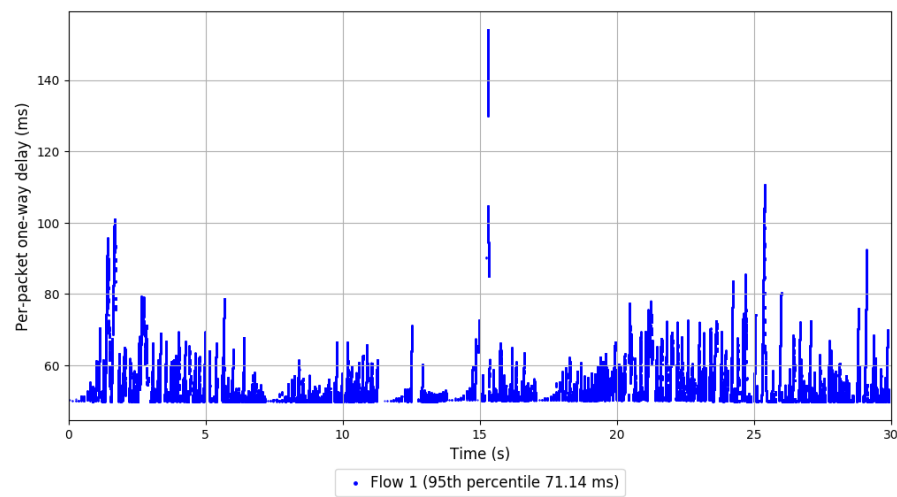
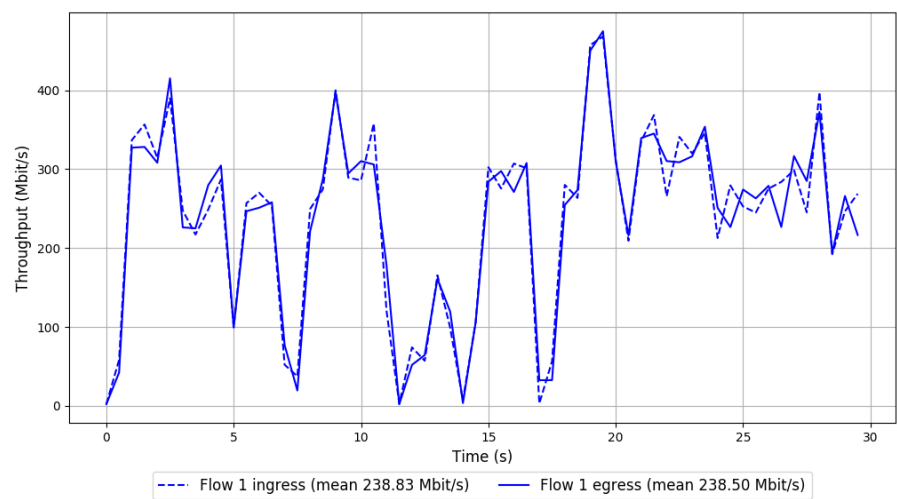
-- Flow 1:

Average throughput: 238.50 Mbit/s

95th percentile per-packet one-way delay: 71.138 ms

Loss rate: 0.46%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-20 01:51:58

End at: 2018-02-20 01:52:28

Below is generated by plot.py at 2018-02-20 06:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.84 Mbit/s

95th percentile per-packet one-way delay: 79.054 ms

Loss rate: 0.00%

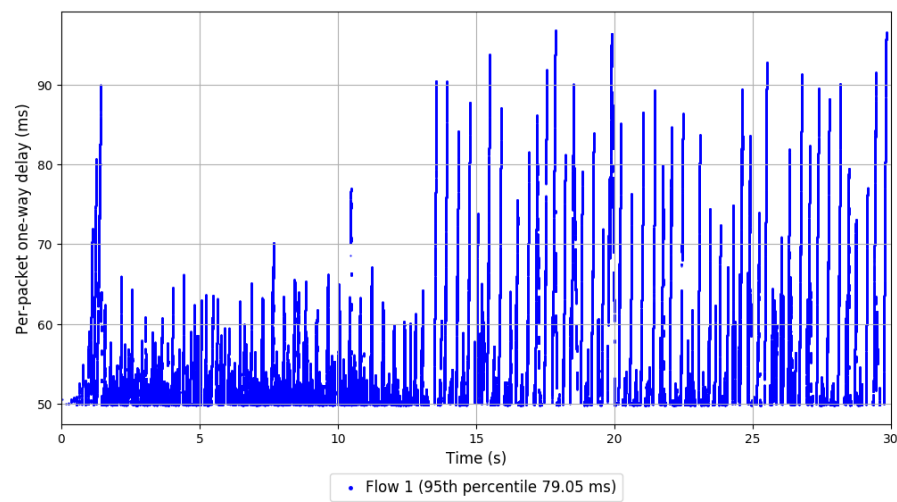
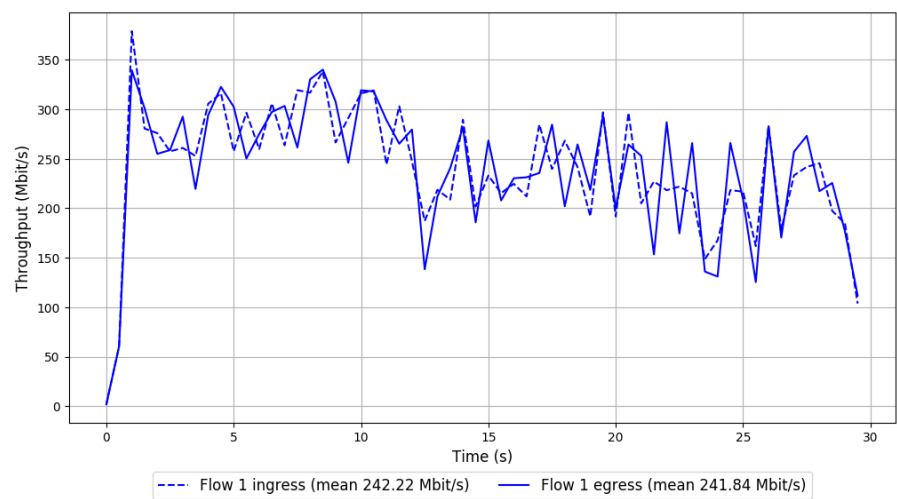
-- Flow 1:

Average throughput: 241.84 Mbit/s

95th percentile per-packet one-way delay: 79.054 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-20 02:06:14

End at: 2018-02-20 02:06:44

Below is generated by plot.py at 2018-02-20 06:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.10 Mbit/s

95th percentile per-packet one-way delay: 77.136 ms

Loss rate: 0.48%

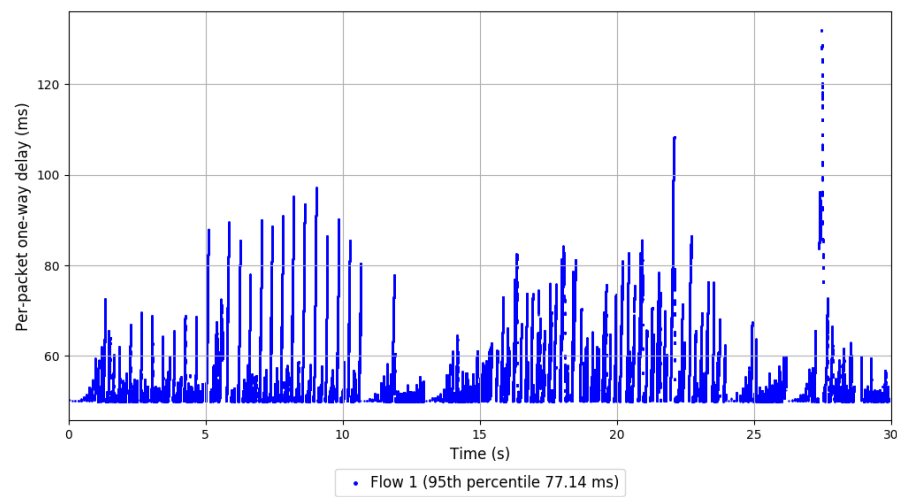
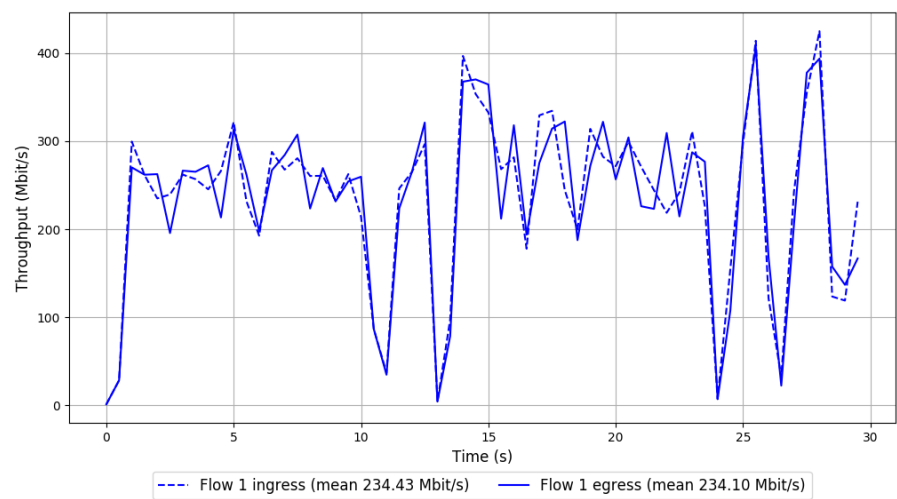
-- Flow 1:

Average throughput: 234.10 Mbit/s

95th percentile per-packet one-way delay: 77.136 ms

Loss rate: 0.48%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-20 02:21:00

End at: 2018-02-20 02:21:30

Below is generated by plot.py at 2018-02-20 06:27:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.68 Mbit/s

95th percentile per-packet one-way delay: 132.473 ms

Loss rate: 0.12%

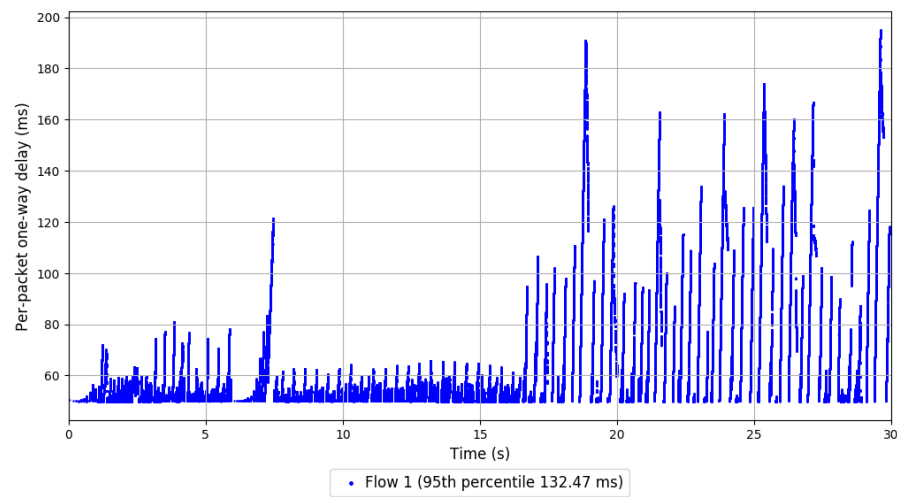
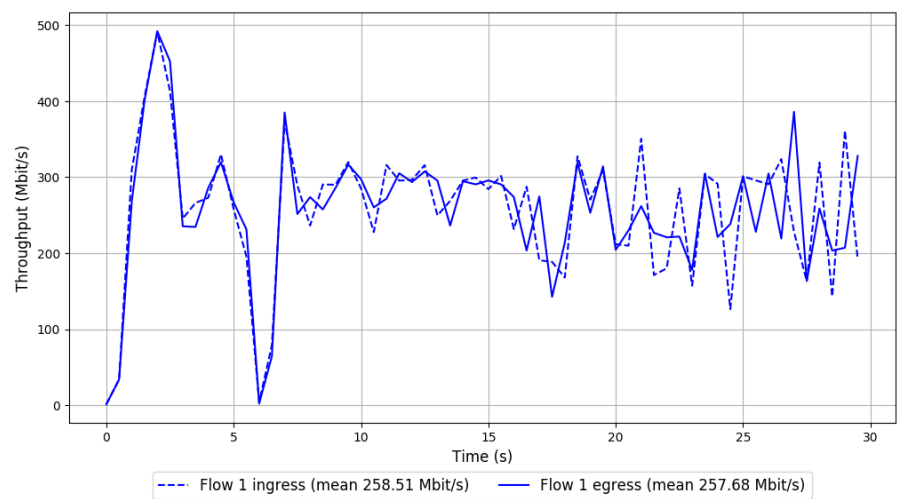
-- Flow 1:

Average throughput: 257.68 Mbit/s

95th percentile per-packet one-way delay: 132.473 ms

Loss rate: 0.12%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-20 02:36:20

End at: 2018-02-20 02:36:50

Below is generated by plot.py at 2018-02-20 06:27:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.15 Mbit/s

95th percentile per-packet one-way delay: 79.700 ms

Loss rate: 0.37%

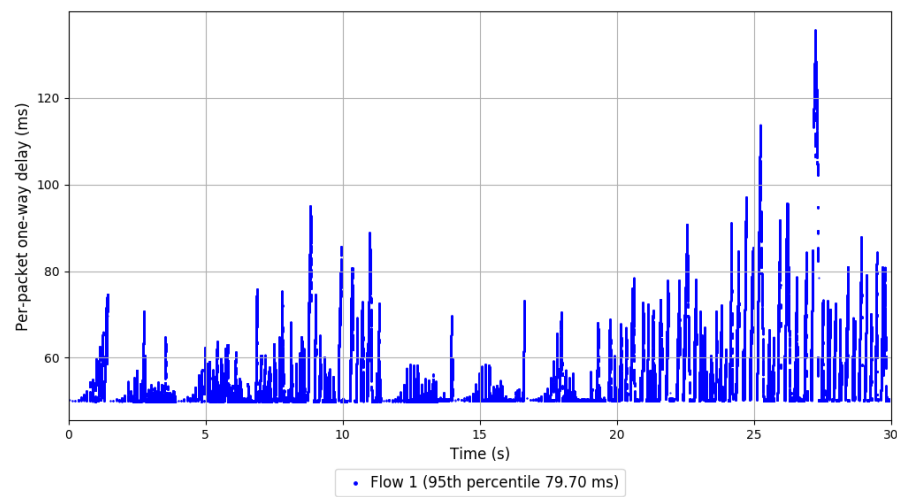
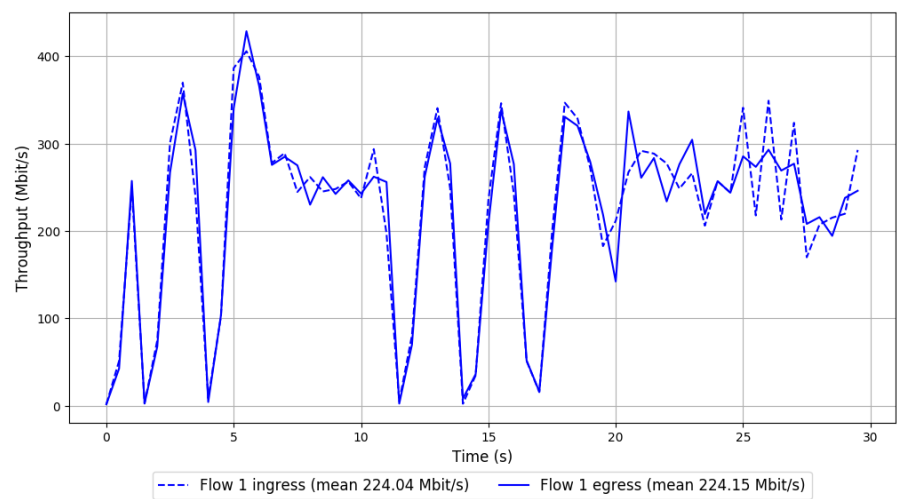
-- Flow 1:

Average throughput: 224.15 Mbit/s

95th percentile per-packet one-way delay: 79.700 ms

Loss rate: 0.37%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-20 02:51:13

End at: 2018-02-20 02:51:43

Below is generated by plot.py at 2018-02-20 06:29:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.41 Mbit/s

95th percentile per-packet one-way delay: 93.008 ms

Loss rate: 0.64%

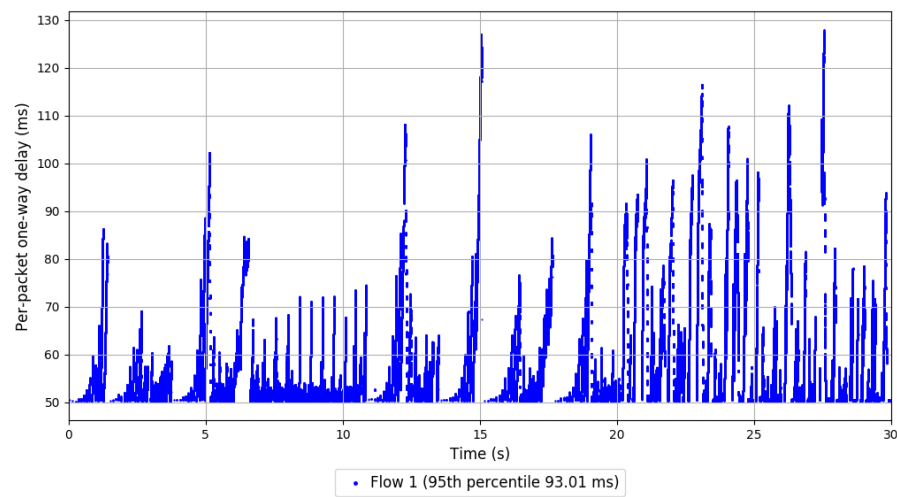
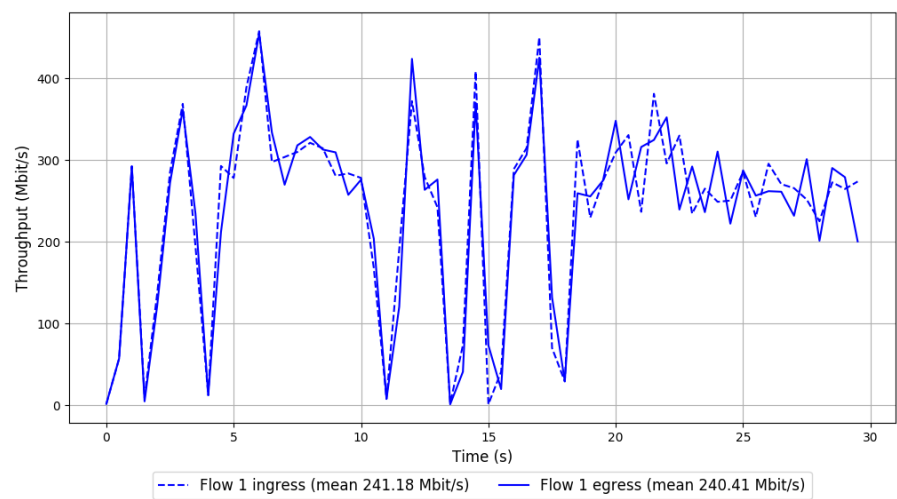
-- Flow 1:

Average throughput: 240.41 Mbit/s

95th percentile per-packet one-way delay: 93.008 ms

Loss rate: 0.64%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-20 03:06:04

End at: 2018-02-20 03:06:34

Below is generated by plot.py at 2018-02-20 06:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.77 Mbit/s

95th percentile per-packet one-way delay: 209.383 ms

Loss rate: 1.85%

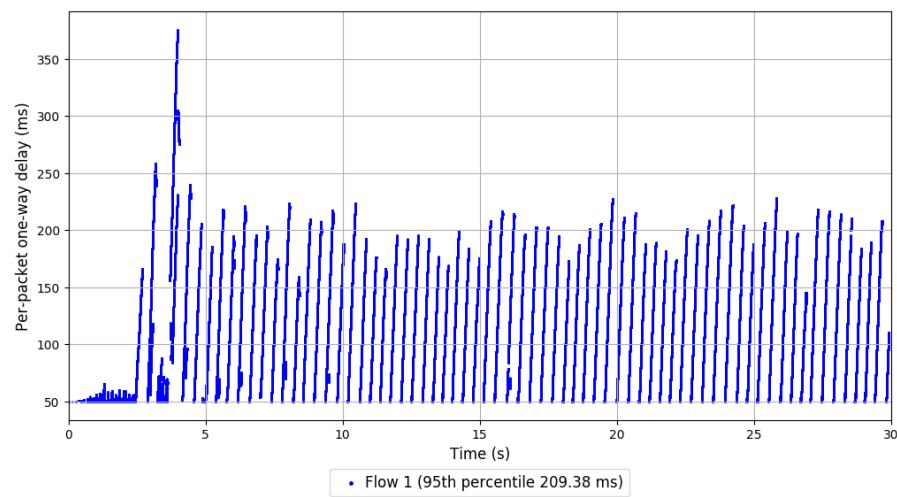
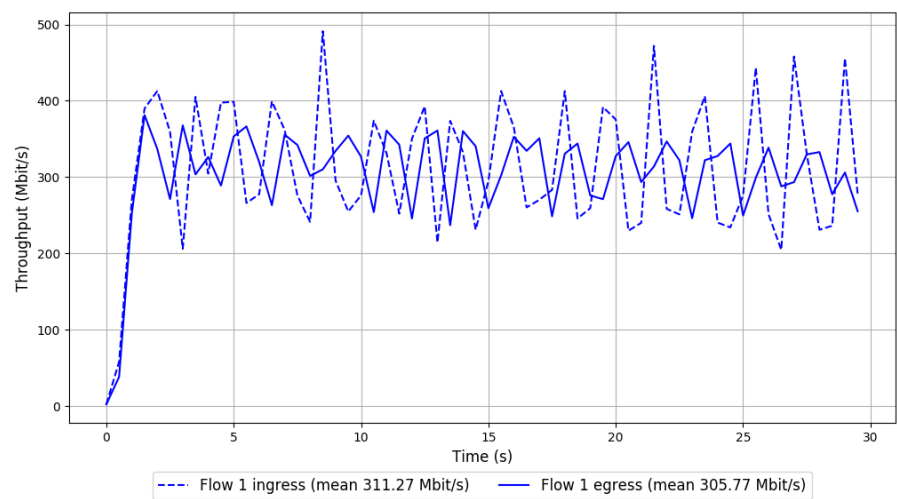
-- Flow 1:

Average throughput: 305.77 Mbit/s

95th percentile per-packet one-way delay: 209.383 ms

Loss rate: 1.85%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-20 00:56:21

End at: 2018-02-20 00:56:51

Below is generated by plot.py at 2018-02-20 06:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.63 Mbit/s

95th percentile per-packet one-way delay: 50.387 ms

Loss rate: 0.14%

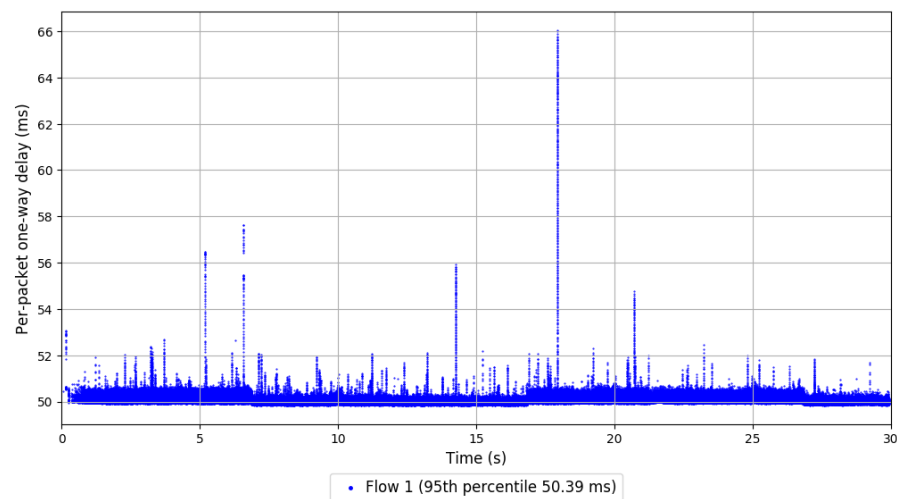
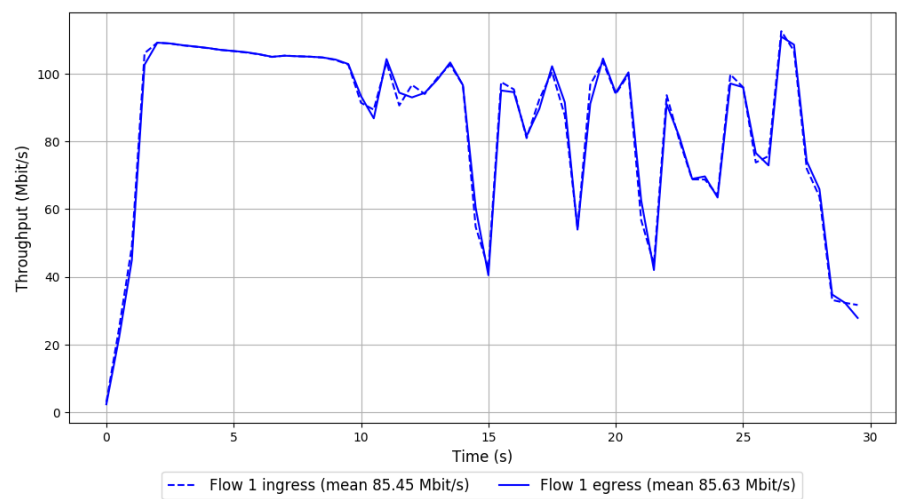
-- Flow 1:

Average throughput: 85.63 Mbit/s

95th percentile per-packet one-way delay: 50.387 ms

Loss rate: 0.14%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-20 01:10:54

End at: 2018-02-20 01:11:24

Below is generated by plot.py at 2018-02-20 06:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 0.13%

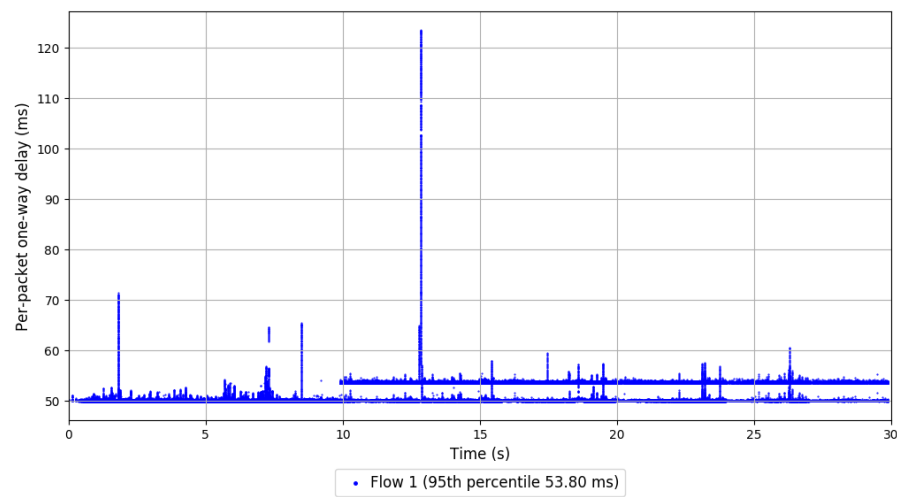
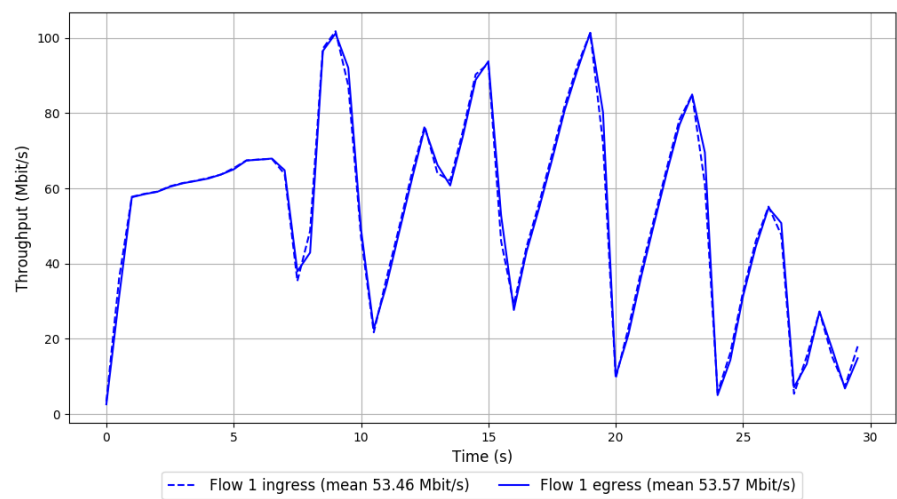
-- Flow 1:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 0.13%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-20 01:25:15

End at: 2018-02-20 01:25:45

Below is generated by plot.py at 2018-02-20 06:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.14 Mbit/s

95th percentile per-packet one-way delay: 74.687 ms

Loss rate: 8.78%

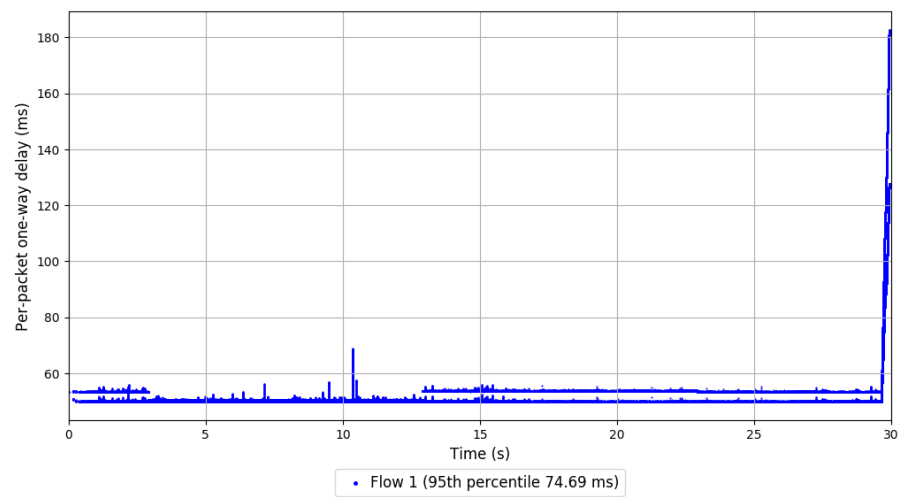
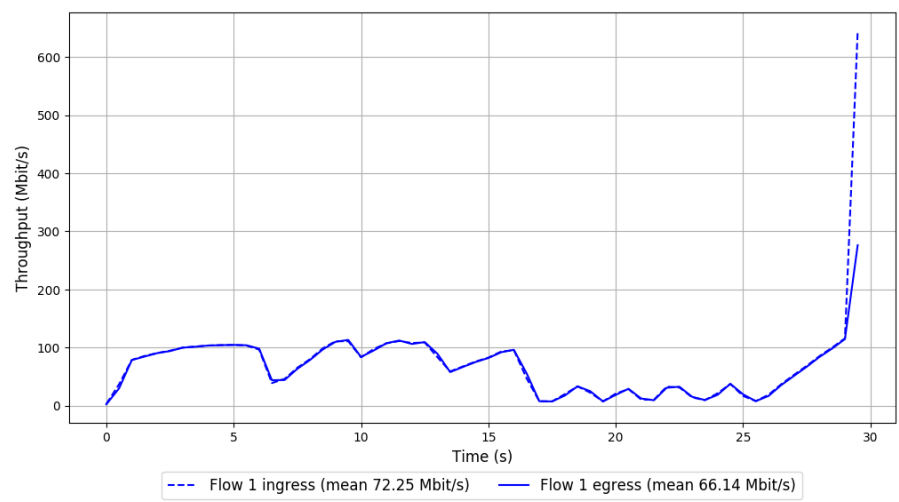
-- Flow 1:

Average throughput: 66.14 Mbit/s

95th percentile per-packet one-way delay: 74.687 ms

Loss rate: 8.78%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-20 01:39:30

End at: 2018-02-20 01:40:00

Below is generated by plot.py at 2018-02-20 06:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.85 Mbit/s

95th percentile per-packet one-way delay: 53.478 ms

Loss rate: 0.38%

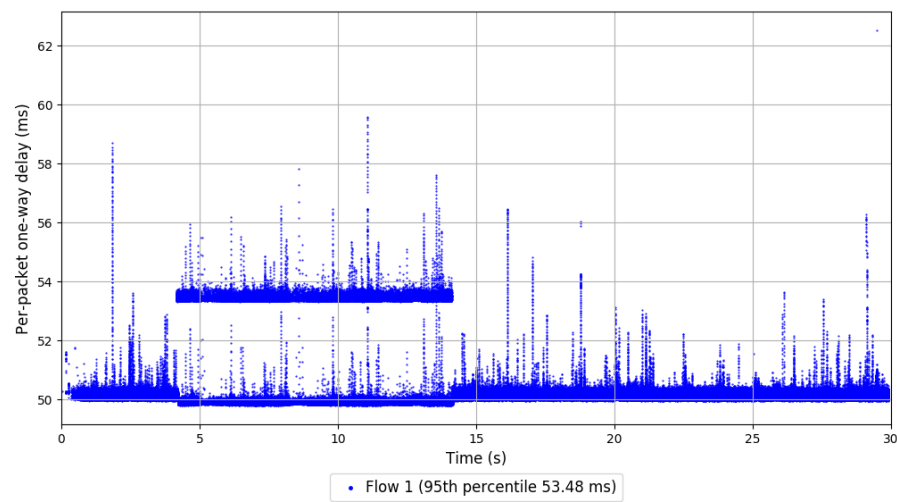
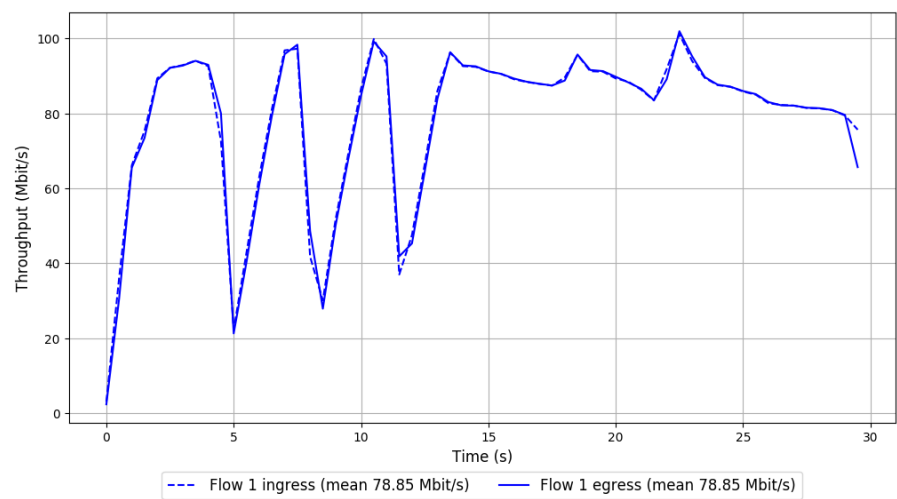
-- Flow 1:

Average throughput: 78.85 Mbit/s

95th percentile per-packet one-way delay: 53.478 ms

Loss rate: 0.38%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-20 01:54:07

End at: 2018-02-20 01:54:37

Below is generated by plot.py at 2018-02-20 06:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.50 Mbit/s

95th percentile per-packet one-way delay: 50.315 ms

Loss rate: 0.56%

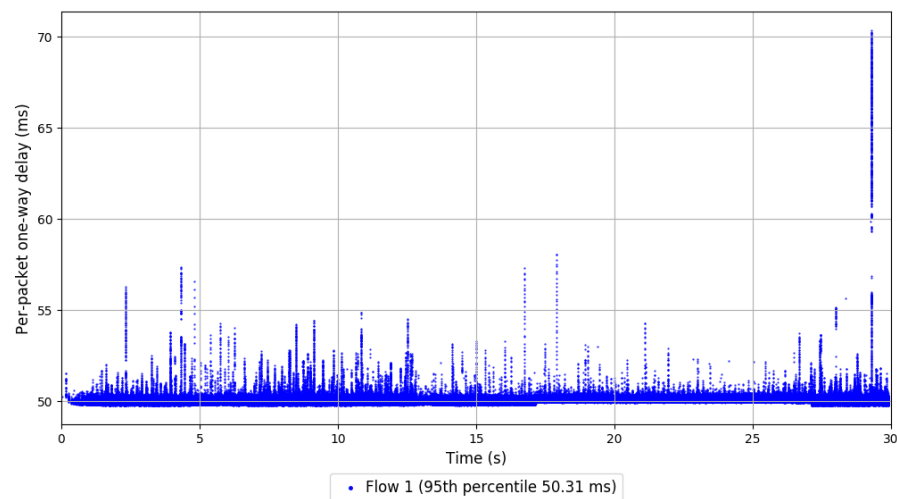
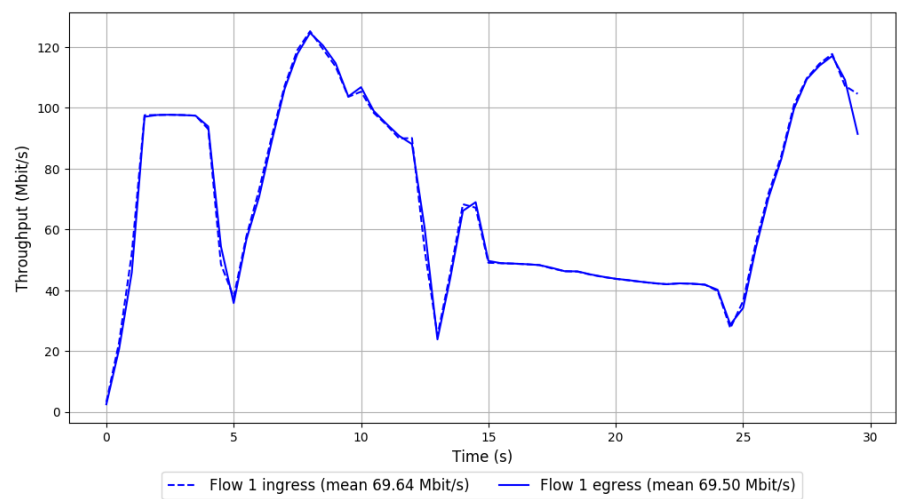
-- Flow 1:

Average throughput: 69.50 Mbit/s

95th percentile per-packet one-way delay: 50.315 ms

Loss rate: 0.56%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-20 02:08:29

End at: 2018-02-20 02:08:59

Below is generated by plot.py at 2018-02-20 06:30:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 53.568 ms

Loss rate: 0.37%

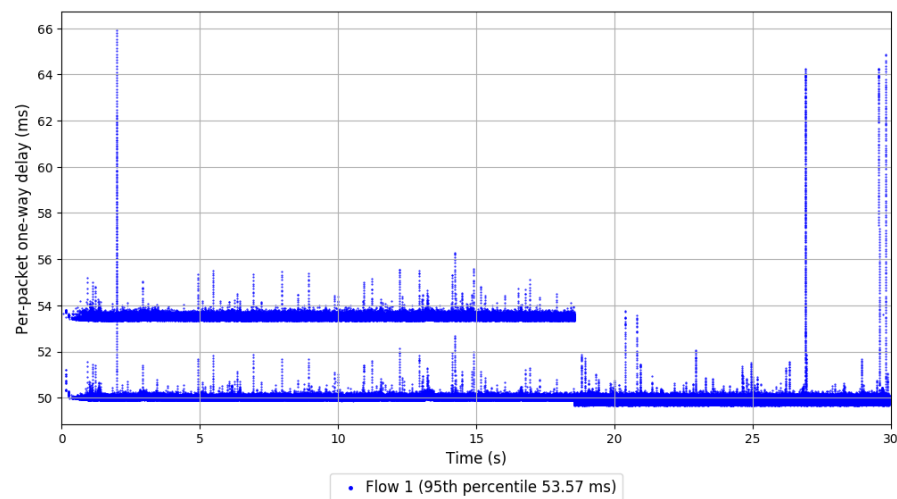
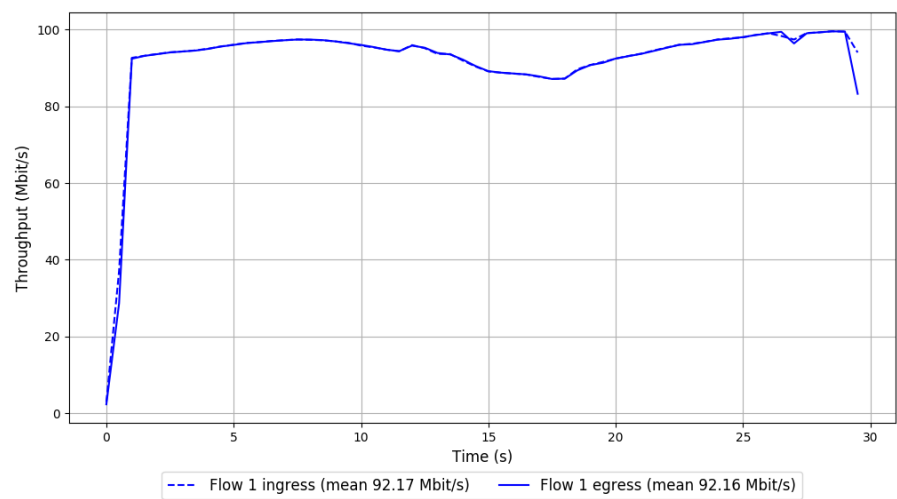
-- Flow 1:

Average throughput: 92.16 Mbit/s

95th percentile per-packet one-way delay: 53.568 ms

Loss rate: 0.37%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-20 02:23:17

End at: 2018-02-20 02:23:47

Below is generated by plot.py at 2018-02-20 06:44:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.85 Mbit/s

95th percentile per-packet one-way delay: 263.143 ms

Loss rate: 38.57%

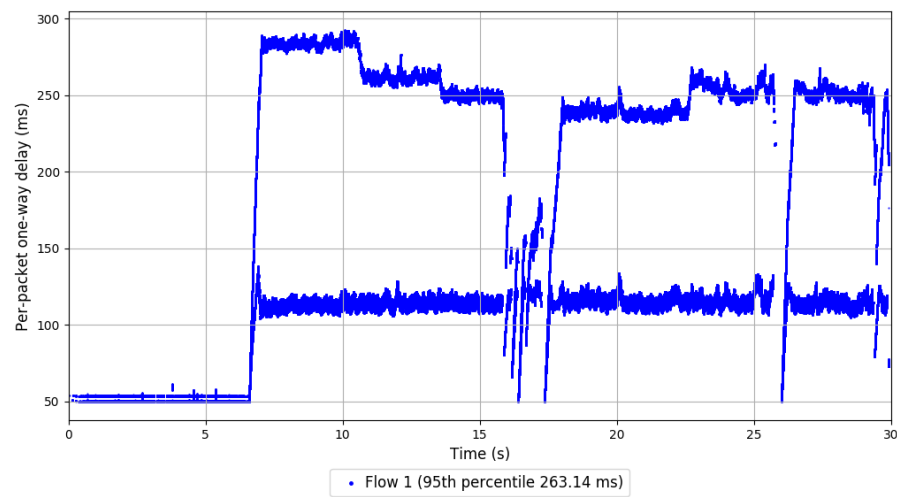
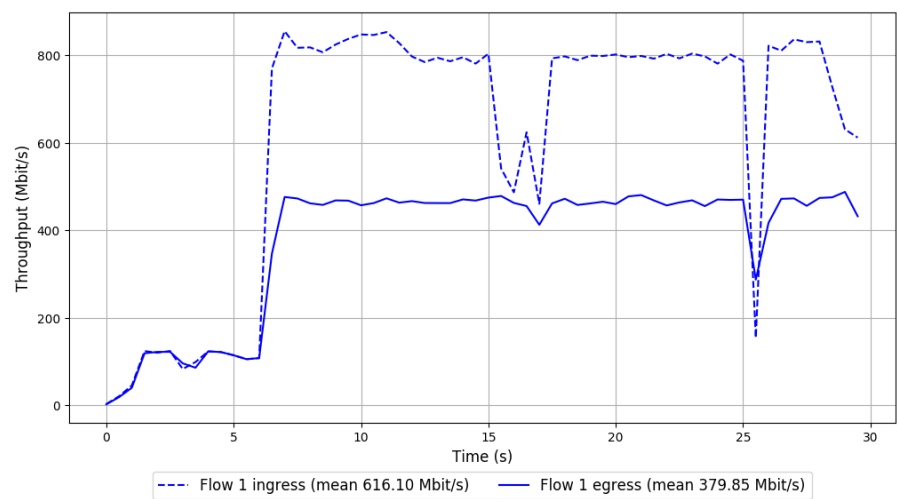
-- Flow 1:

Average throughput: 379.85 Mbit/s

95th percentile per-packet one-way delay: 263.143 ms

Loss rate: 38.57%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-20 02:38:33

End at: 2018-02-20 02:39:03

Below is generated by plot.py at 2018-02-20 06:44:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.79 Mbit/s

95th percentile per-packet one-way delay: 277.799 ms

Loss rate: 34.58%

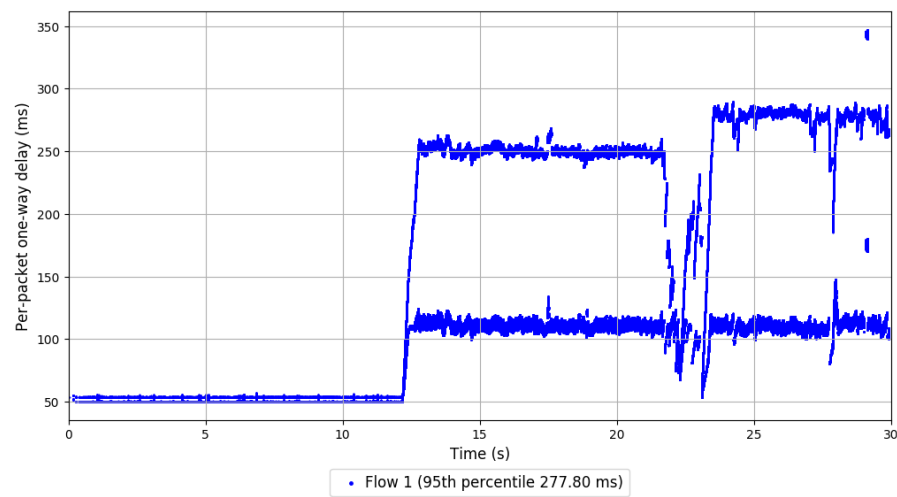
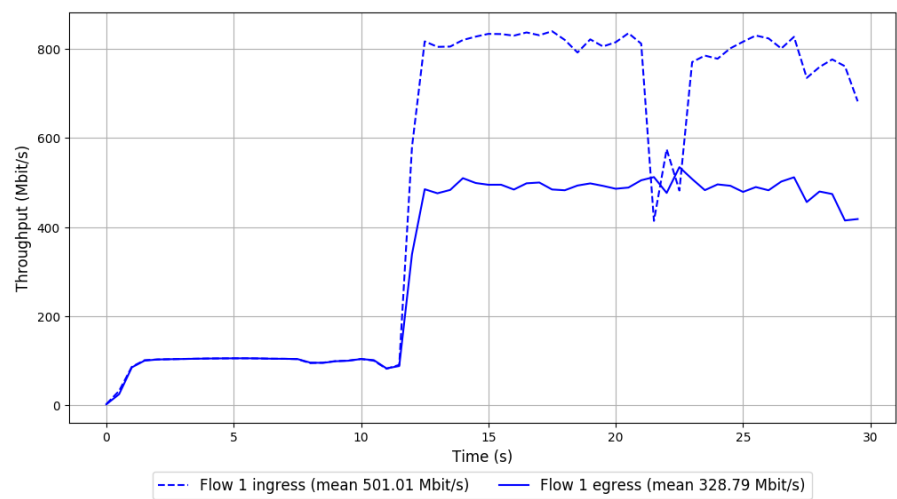
-- Flow 1:

Average throughput: 328.79 Mbit/s

95th percentile per-packet one-way delay: 277.799 ms

Loss rate: 34.58%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-20 02:53:26

End at: 2018-02-20 02:53:56

Below is generated by plot.py at 2018-02-20 06:44:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 53.223 ms

Loss rate: 0.38%

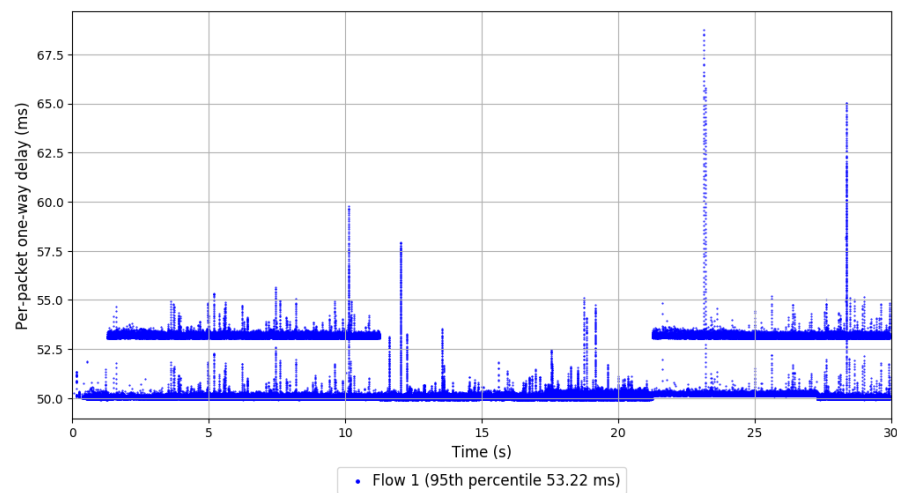
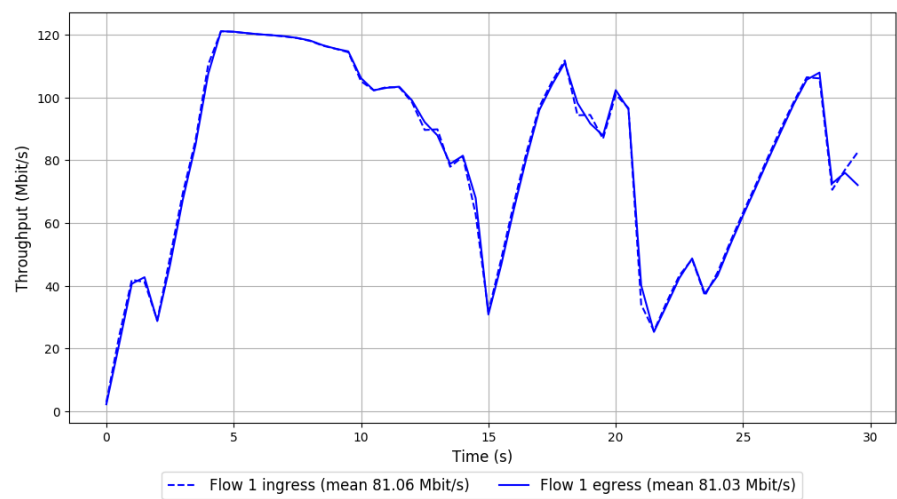
-- Flow 1:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 53.223 ms

Loss rate: 0.38%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-20 03:08:18

End at: 2018-02-20 03:08:48

Below is generated by plot.py at 2018-02-20 06:44:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.00 Mbit/s

95th percentile per-packet one-way delay: 253.566 ms

Loss rate: 35.30%

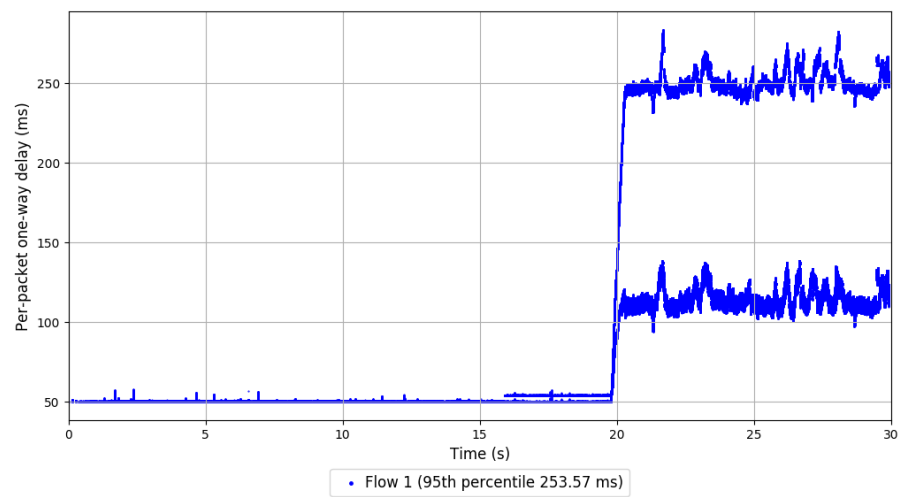
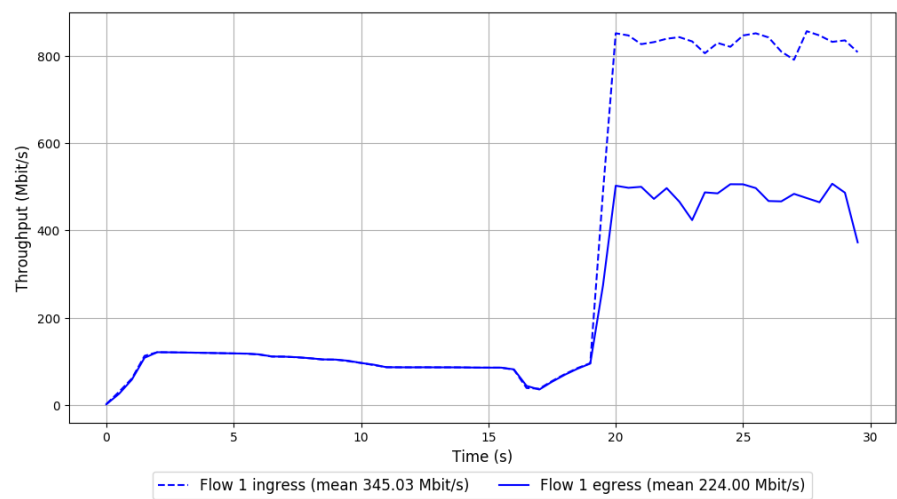
-- Flow 1:

Average throughput: 224.00 Mbit/s

95th percentile per-packet one-way delay: 253.566 ms

Loss rate: 35.30%

Run 10: Report of Copa — Data Link

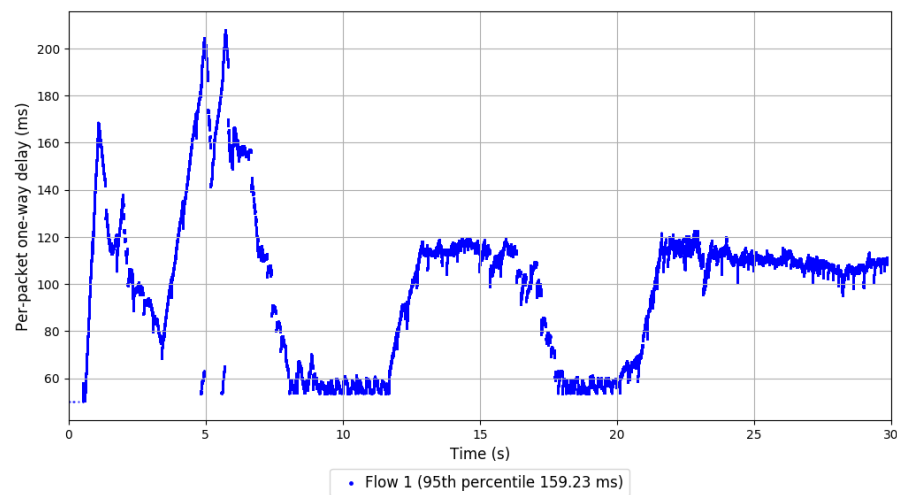
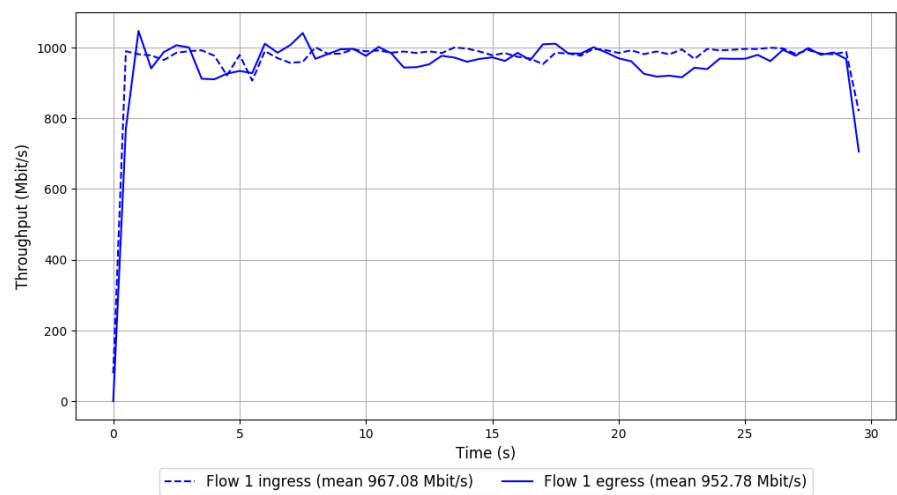


```
Run 1: Statistics of FillP

Start at: 2018-02-20 00:48:06
End at: 2018-02-20 00:48:36

# Below is generated by plot.py at 2018-02-20 06:46:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 952.78 Mbit/s
95th percentile per-packet one-way delay: 159.229 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 952.78 Mbit/s
95th percentile per-packet one-way delay: 159.229 ms
Loss rate: 1.81%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-20 01:02:49

End at: 2018-02-20 01:03:19

Below is generated by plot.py at 2018-02-20 06:46:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 851.85 Mbit/s

95th percentile per-packet one-way delay: 149.365 ms

Loss rate: 7.75%

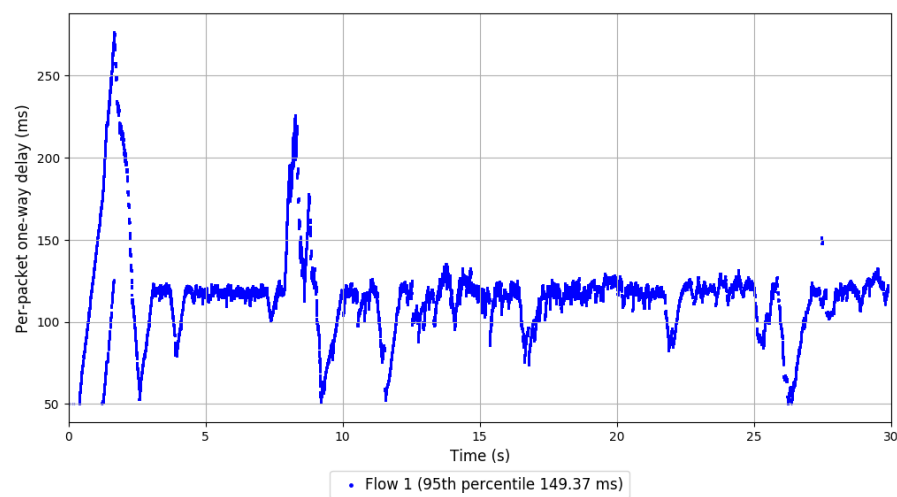
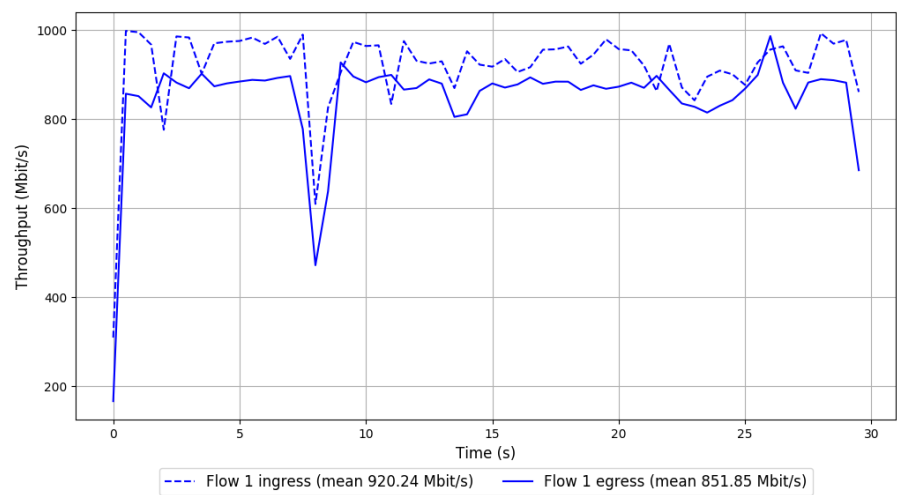
-- Flow 1:

Average throughput: 851.85 Mbit/s

95th percentile per-packet one-way delay: 149.365 ms

Loss rate: 7.75%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-20 01:17:06

End at: 2018-02-20 01:17:36

Below is generated by plot.py at 2018-02-20 06:46:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.10 Mbit/s

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

Loss rate: 9.00%

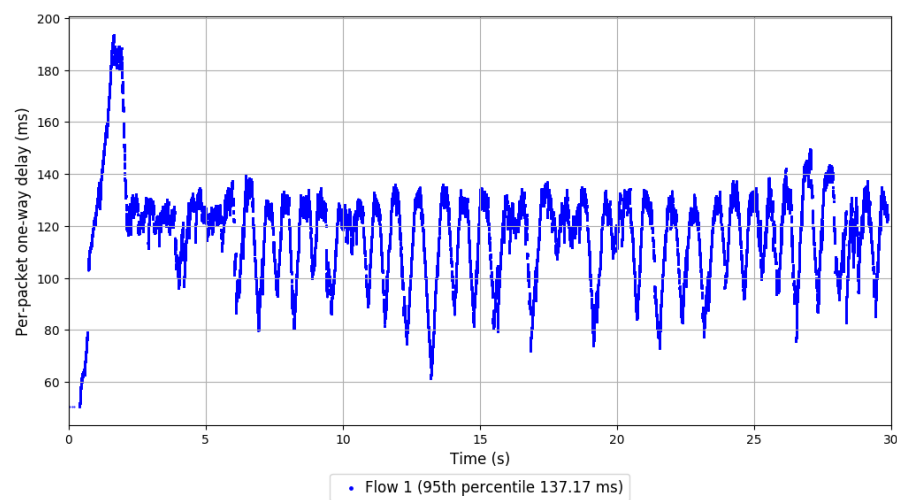
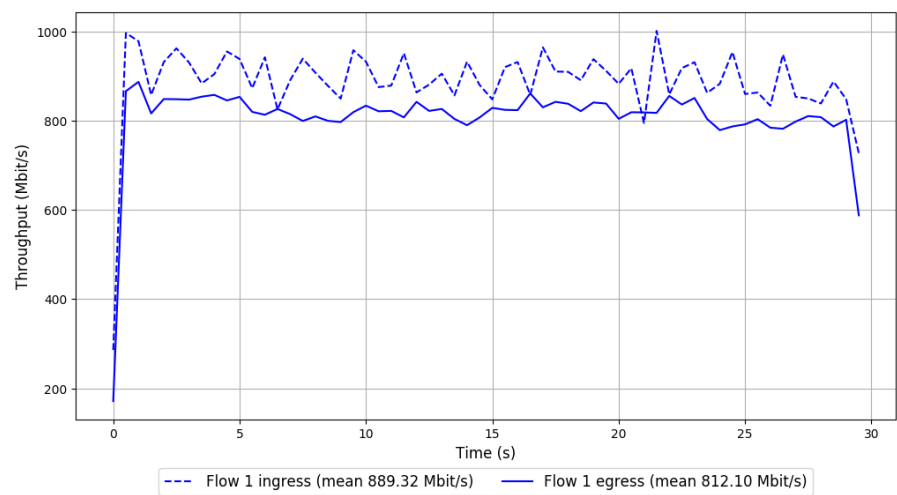
-- Flow 1:

Average throughput: 812.10 Mbit/s

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

Loss rate: 9.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-20 01:31:31

End at: 2018-02-20 01:32:01

Below is generated by plot.py at 2018-02-20 06:46:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 857.36 Mbit/s

95th percentile per-packet one-way delay: 244.726 ms

Loss rate: 7.63%

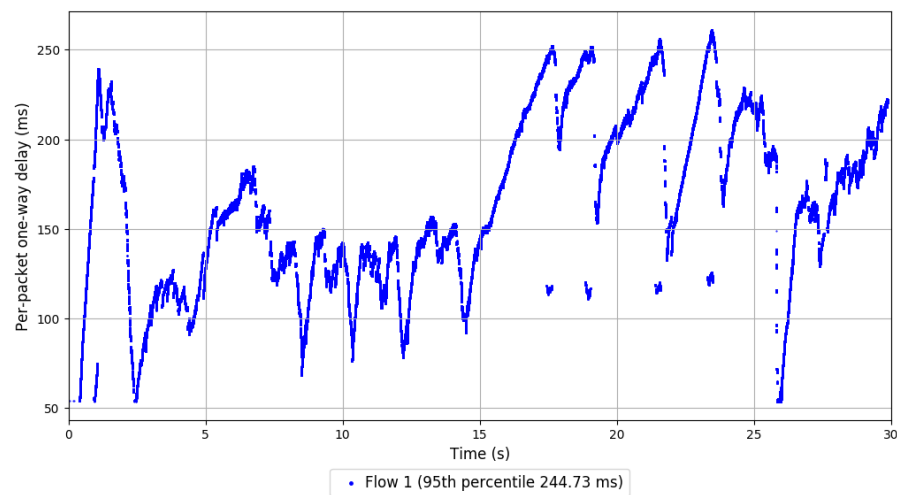
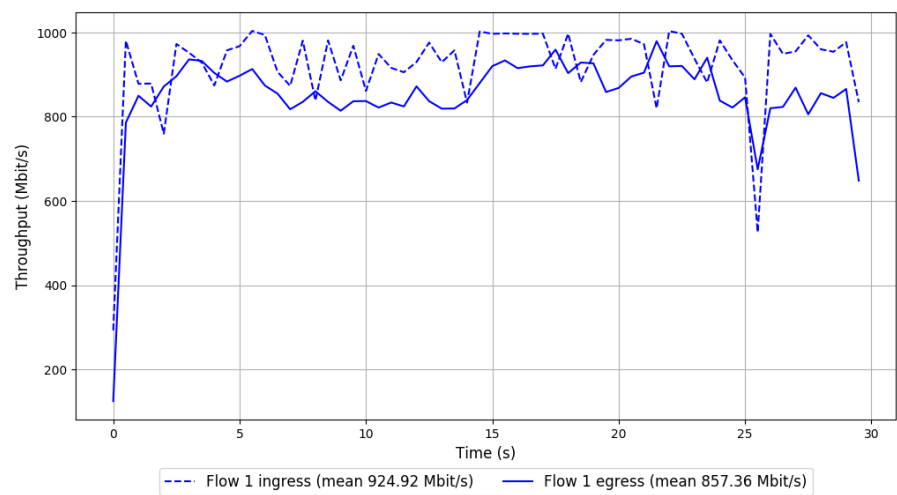
-- Flow 1:

Average throughput: 857.36 Mbit/s

95th percentile per-packet one-way delay: 244.726 ms

Loss rate: 7.63%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-20 01:46:00

End at: 2018-02-20 01:46:30

Below is generated by plot.py at 2018-02-20 06:47:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.62 Mbit/s

95th percentile per-packet one-way delay: 139.853 ms

Loss rate: 9.02%

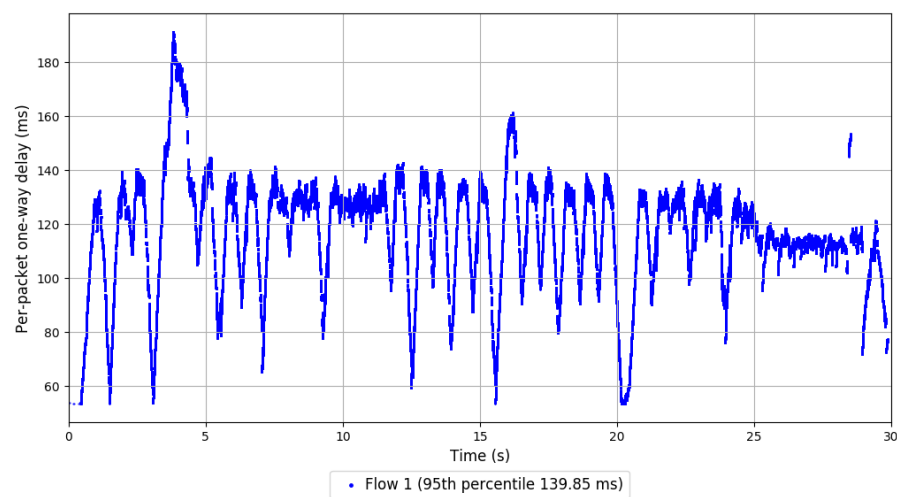
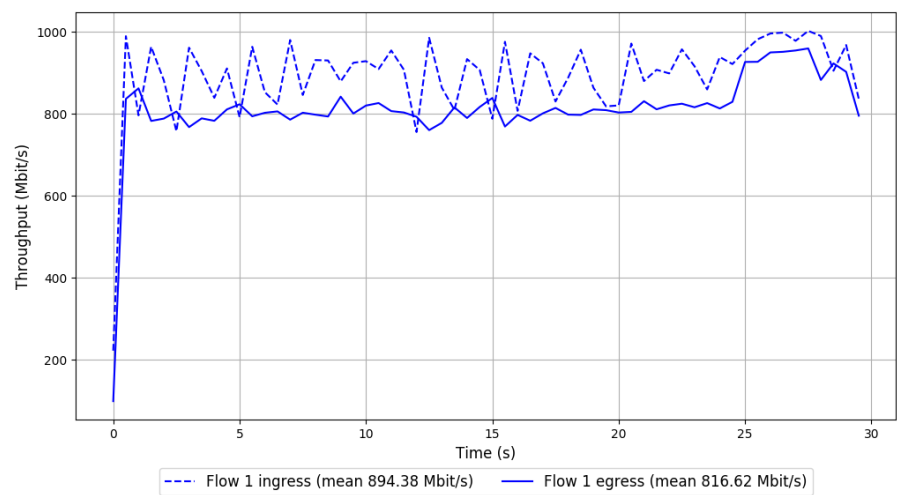
-- Flow 1:

Average throughput: 816.62 Mbit/s

95th percentile per-packet one-way delay: 139.853 ms

Loss rate: 9.02%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-20 02:00:16

End at: 2018-02-20 02:00:46

Below is generated by plot.py at 2018-02-20 06:56:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 905.57 Mbit/s

95th percentile per-packet one-way delay: 150.247 ms

Loss rate: 6.00%

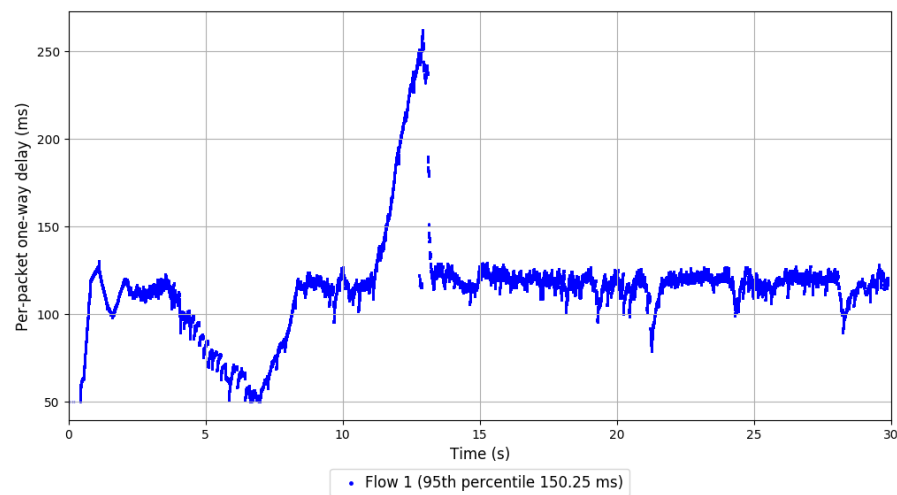
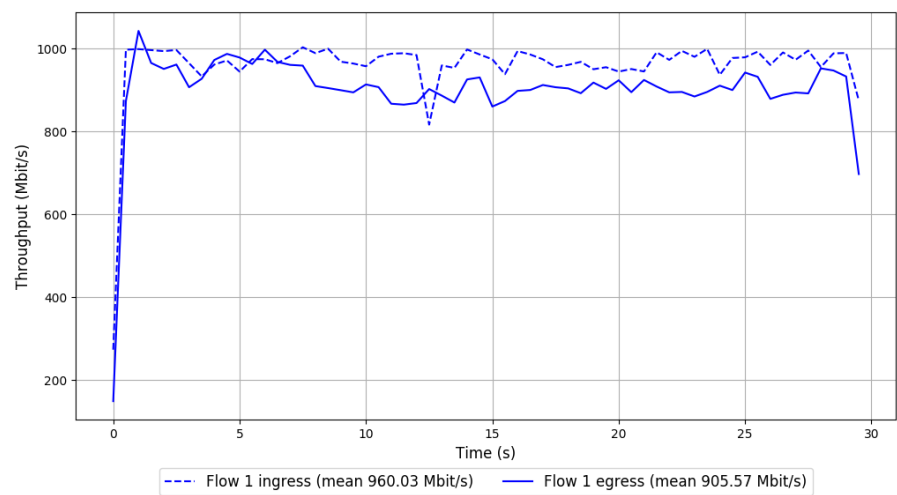
-- Flow 1:

Average throughput: 905.57 Mbit/s

95th percentile per-packet one-way delay: 150.247 ms

Loss rate: 6.00%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-20 02:14:57

End at: 2018-02-20 02:15:27

Below is generated by plot.py at 2018-02-20 07:00:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 906.43 Mbit/s

95th percentile per-packet one-way delay: 125.663 ms

Loss rate: 7.11%

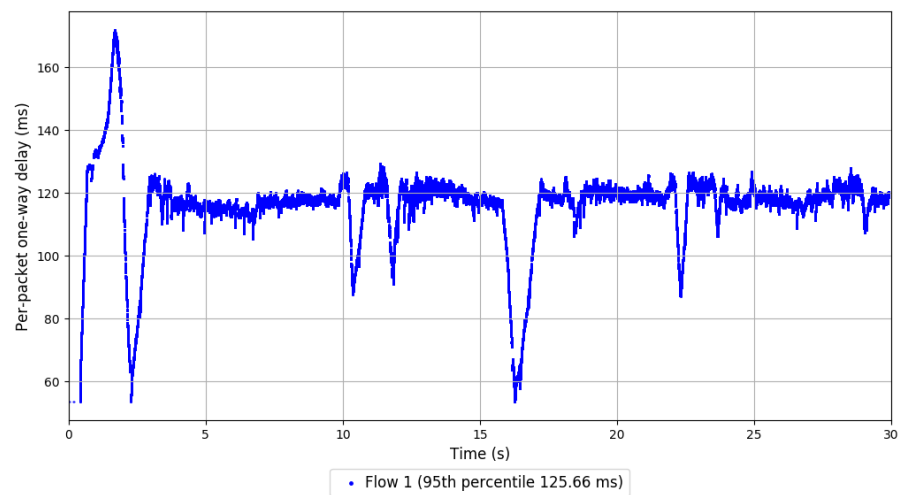
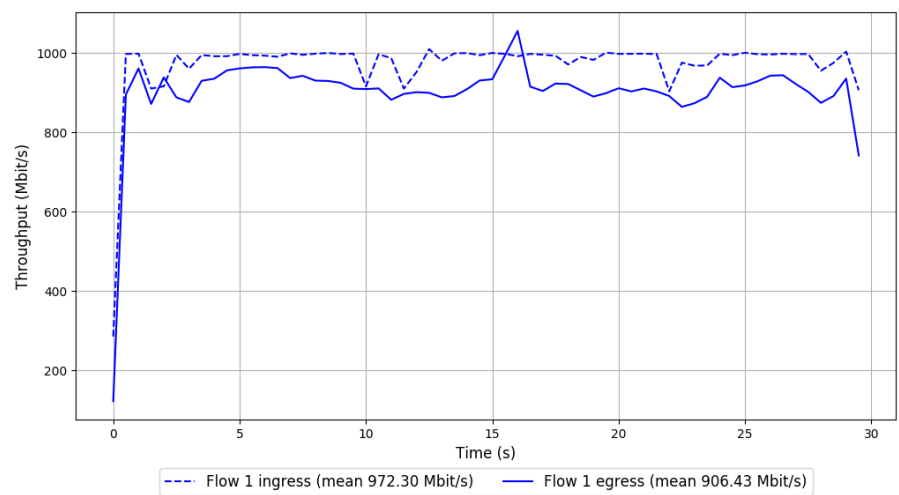
-- Flow 1:

Average throughput: 906.43 Mbit/s

95th percentile per-packet one-way delay: 125.663 ms

Loss rate: 7.11%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-20 02:30:17

End at: 2018-02-20 02:30:47

Below is generated by plot.py at 2018-02-20 07:00:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 838.14 Mbit/s

95th percentile per-packet one-way delay: 164.308 ms

Loss rate: 9.60%

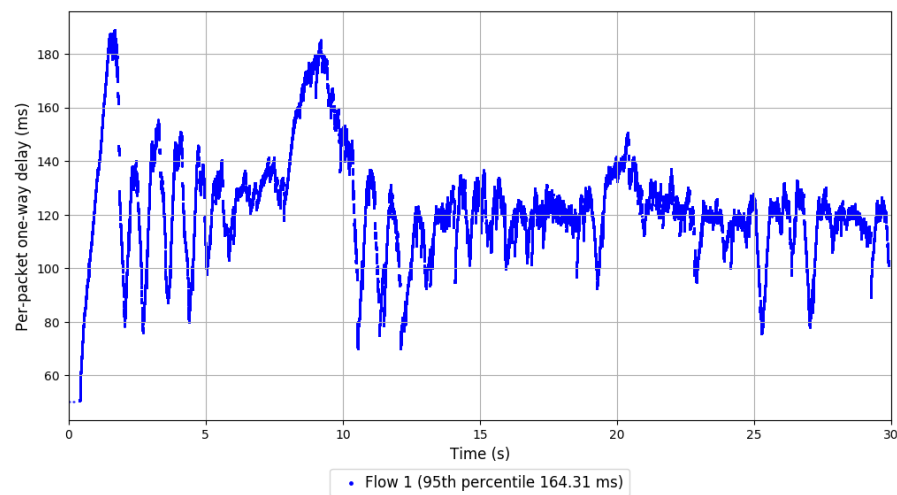
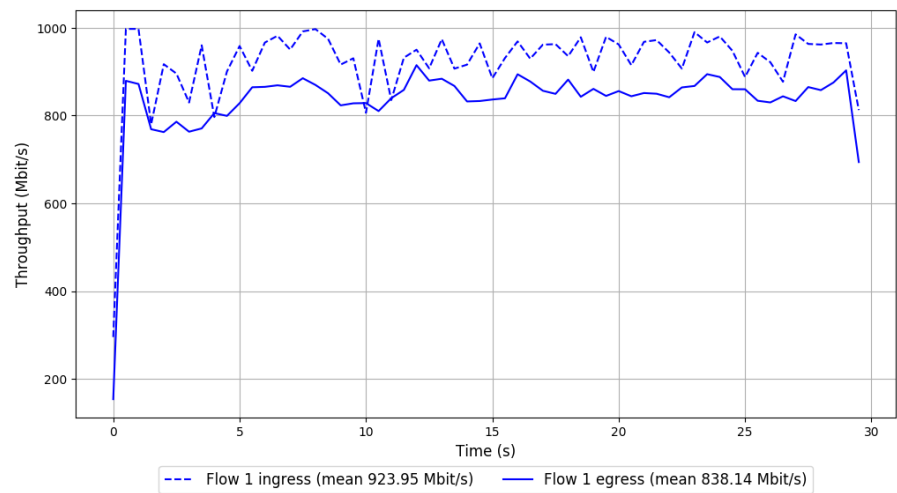
-- Flow 1:

Average throughput: 838.14 Mbit/s

95th percentile per-packet one-way delay: 164.308 ms

Loss rate: 9.60%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-20 02:45:15

End at: 2018-02-20 02:45:46

Below is generated by plot.py at 2018-02-20 07:02:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 854.37 Mbit/s

95th percentile per-packet one-way delay: 141.721 ms

Loss rate: 8.77%

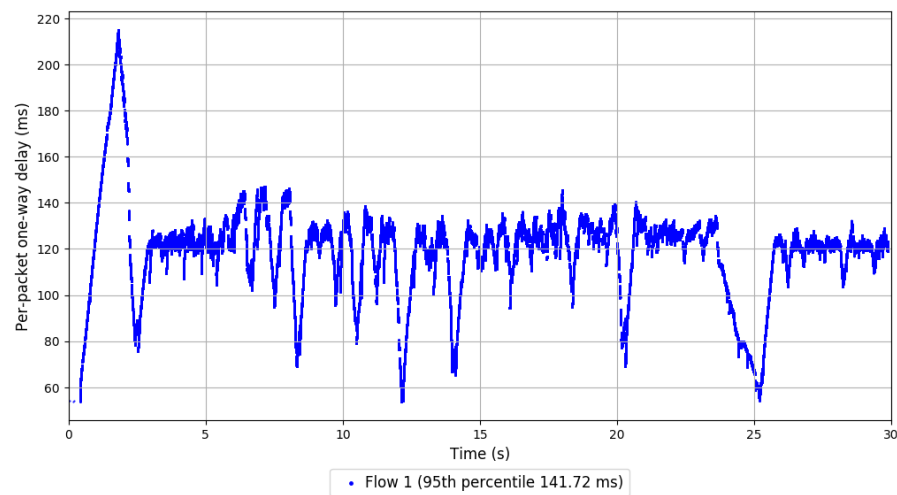
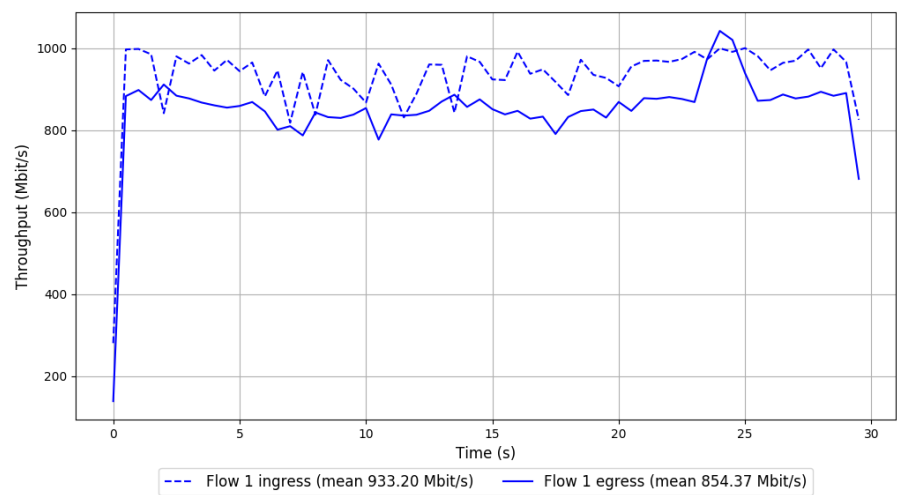
-- Flow 1:

Average throughput: 854.37 Mbit/s

95th percentile per-packet one-way delay: 141.721 ms

Loss rate: 8.77%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

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

End at: 2018-02-20 03:00:32

Below is generated by plot.py at 2018-02-20 07:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 906.94 Mbit/s

95th percentile per-packet one-way delay: 229.712 ms

Loss rate: 6.52%

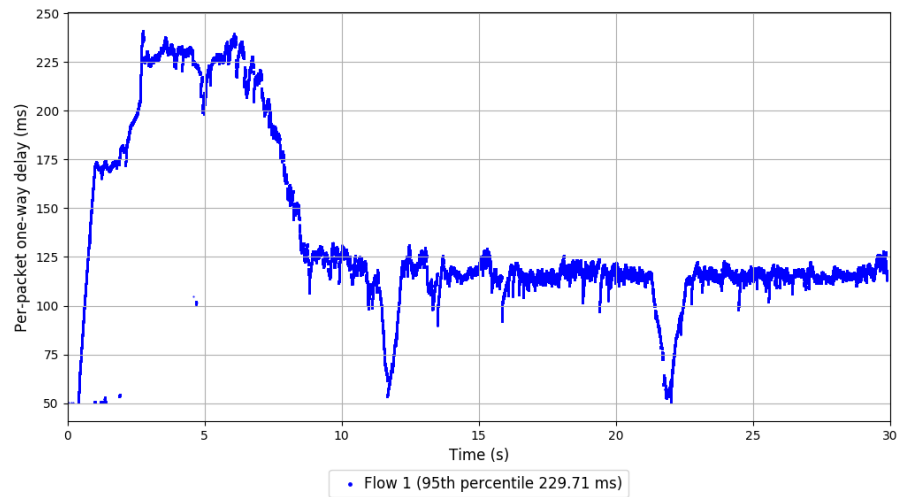
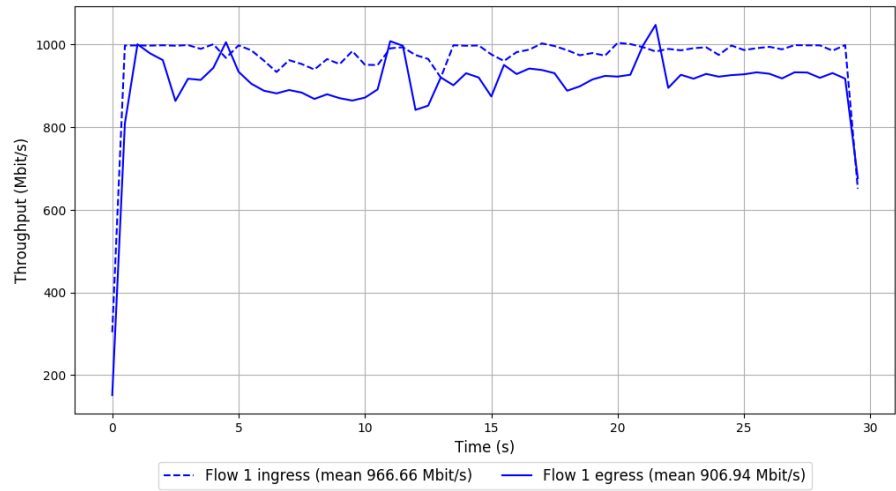
-- Flow 1:

Average throughput: 906.94 Mbit/s

95th percentile per-packet one-way delay: 229.712 ms

Loss rate: 6.52%

Run 10: Report of FillP — Data Link

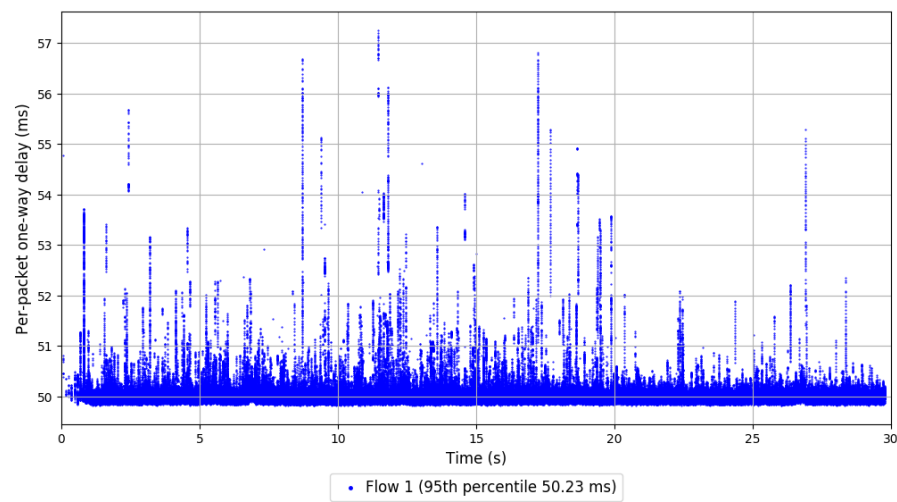
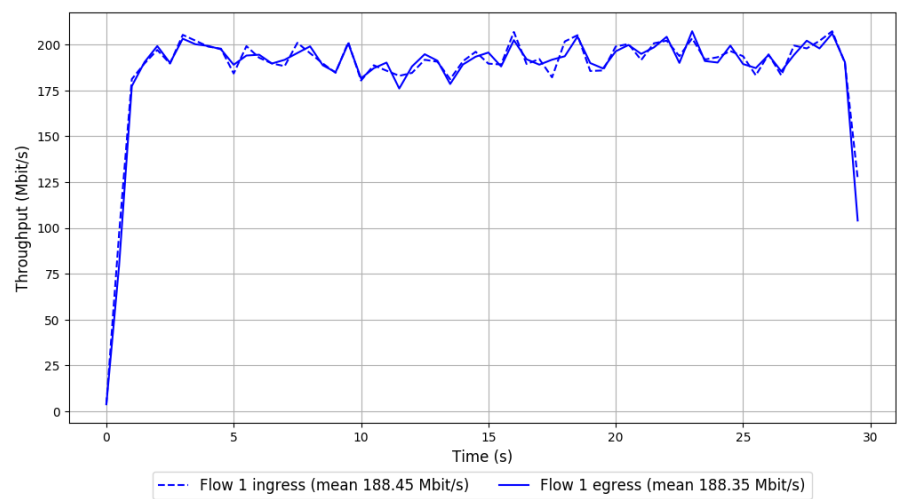


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-20 00:49:16
End at: 2018-02-20 00:49:46

# Below is generated by plot.py at 2018-02-20 07:04:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.35 Mbit/s
95th percentile per-packet one-way delay: 50.228 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 188.35 Mbit/s
95th percentile per-packet one-way delay: 50.228 ms
Loss rate: 0.40%
```

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

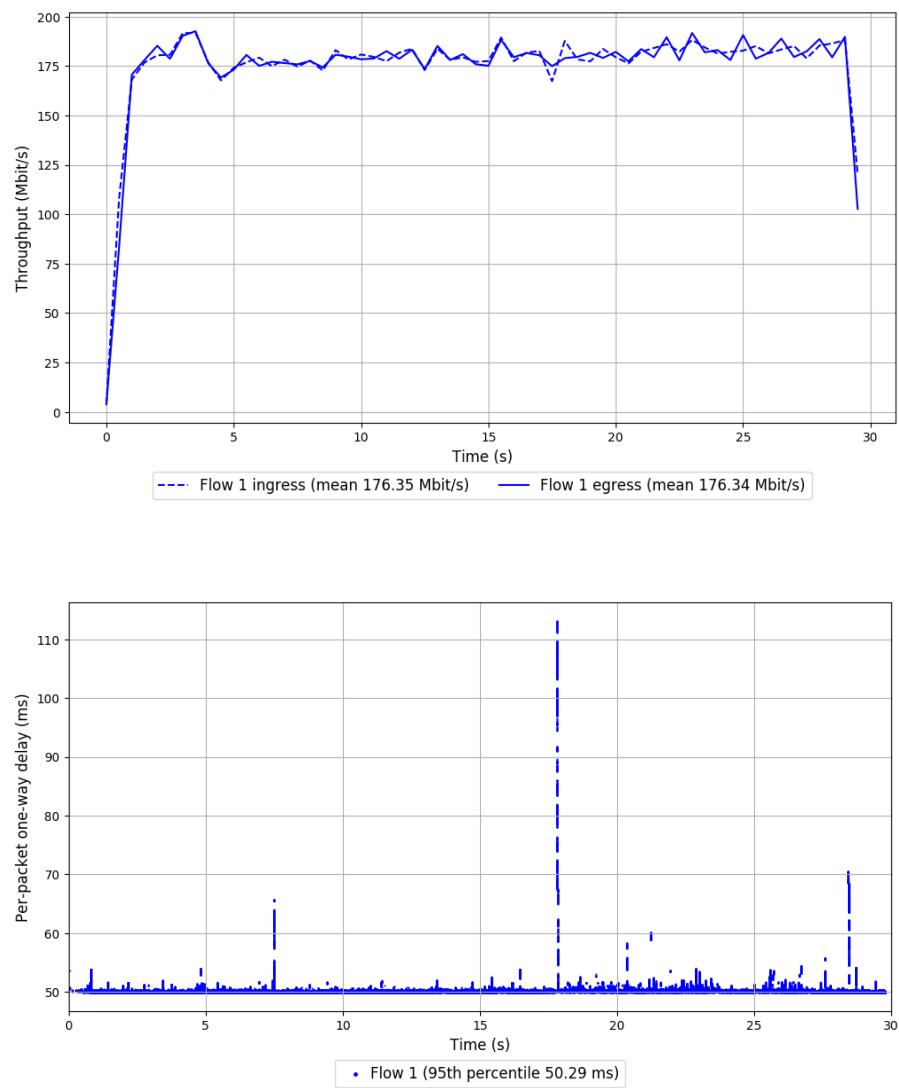


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-20 01:03:56
End at: 2018-02-20 01:04:26

# Below is generated by plot.py at 2018-02-20 07:04:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 176.34 Mbit/s
95th percentile per-packet one-way delay: 50.288 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 176.34 Mbit/s
95th percentile per-packet one-way delay: 50.288 ms
Loss rate: 0.35%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-20 01:18:12

End at: 2018-02-20 01:18:42

Below is generated by plot.py at 2018-02-20 07:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.46 Mbit/s

95th percentile per-packet one-way delay: 50.202 ms

Loss rate: 0.35%

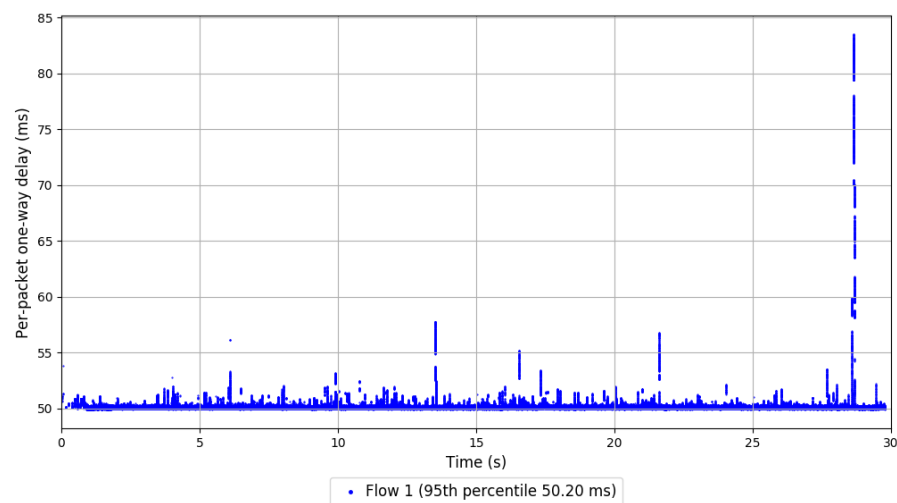
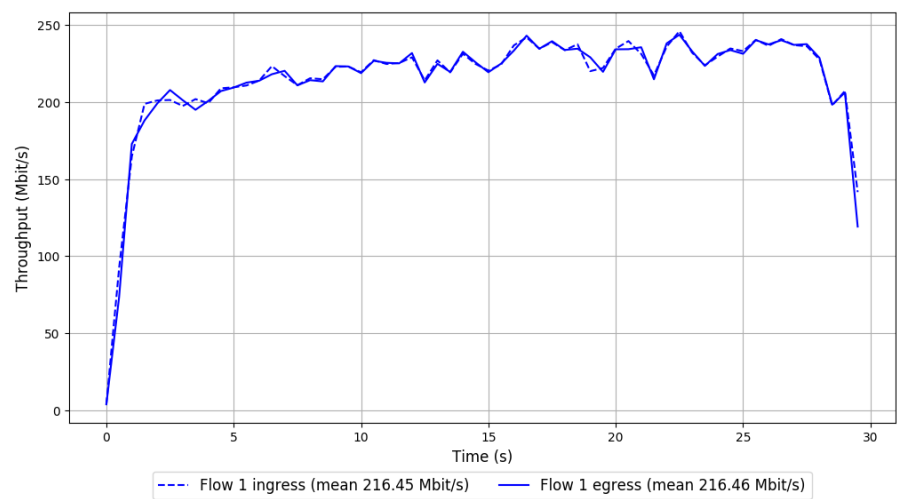
-- Flow 1:

Average throughput: 216.46 Mbit/s

95th percentile per-packet one-way delay: 50.202 ms

Loss rate: 0.35%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-20 01:32:37

End at: 2018-02-20 01:33:08

Below is generated by plot.py at 2018-02-20 07:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.00 Mbit/s

95th percentile per-packet one-way delay: 50.519 ms

Loss rate: 0.29%

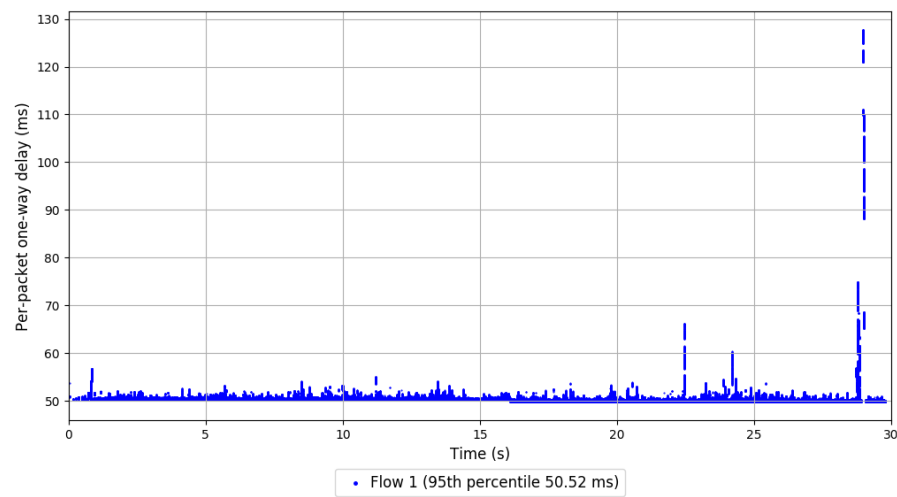
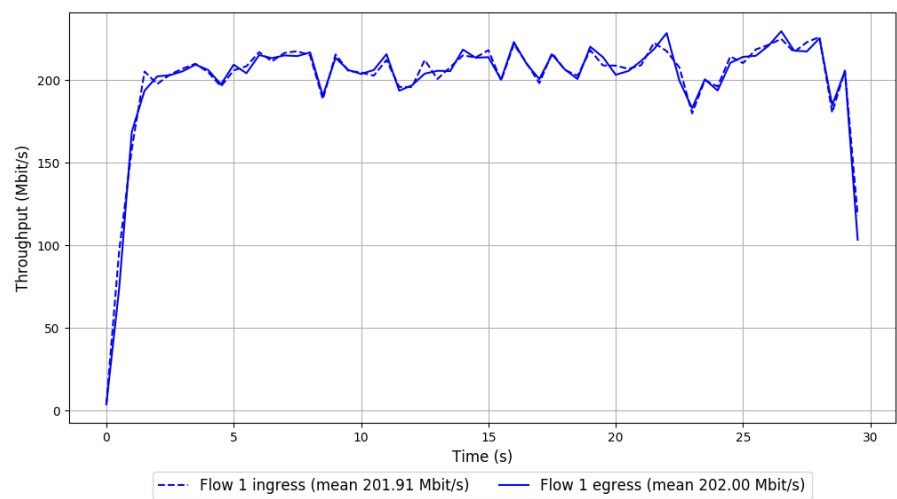
-- Flow 1:

Average throughput: 202.00 Mbit/s

95th percentile per-packet one-way delay: 50.519 ms

Loss rate: 0.29%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-20 01:47:06

End at: 2018-02-20 01:47:36

Below is generated by plot.py at 2018-02-20 07:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.14 Mbit/s

95th percentile per-packet one-way delay: 50.402 ms

Loss rate: 0.35%

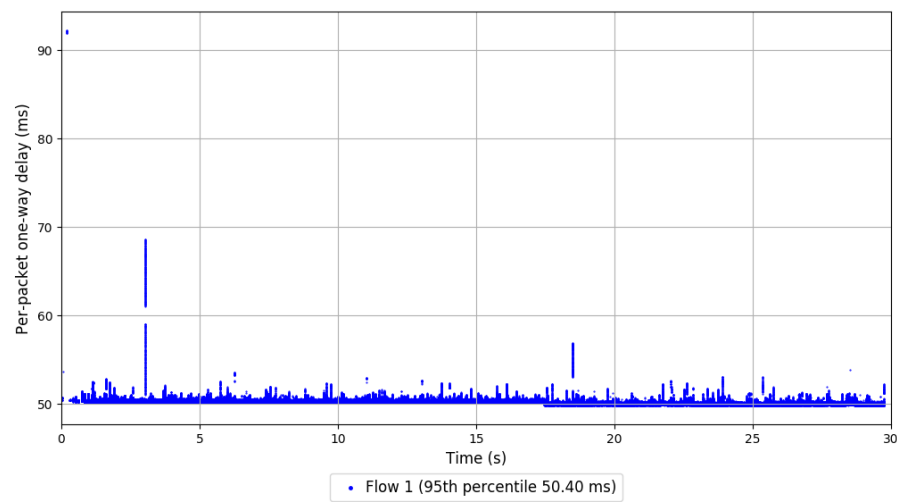
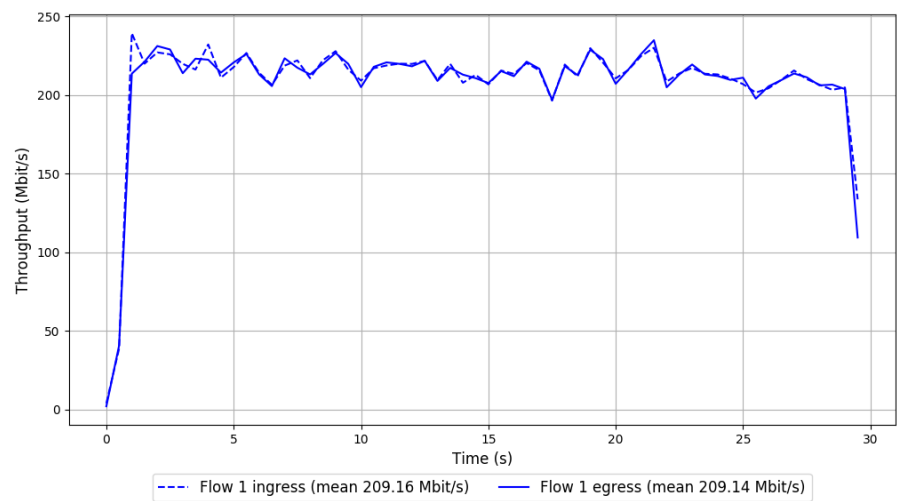
-- Flow 1:

Average throughput: 209.14 Mbit/s

95th percentile per-packet one-way delay: 50.402 ms

Loss rate: 0.35%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-20 02:01:24

End at: 2018-02-20 02:01:55

Below is generated by plot.py at 2018-02-20 07:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.74 Mbit/s

95th percentile per-packet one-way delay: 50.405 ms

Loss rate: 0.37%

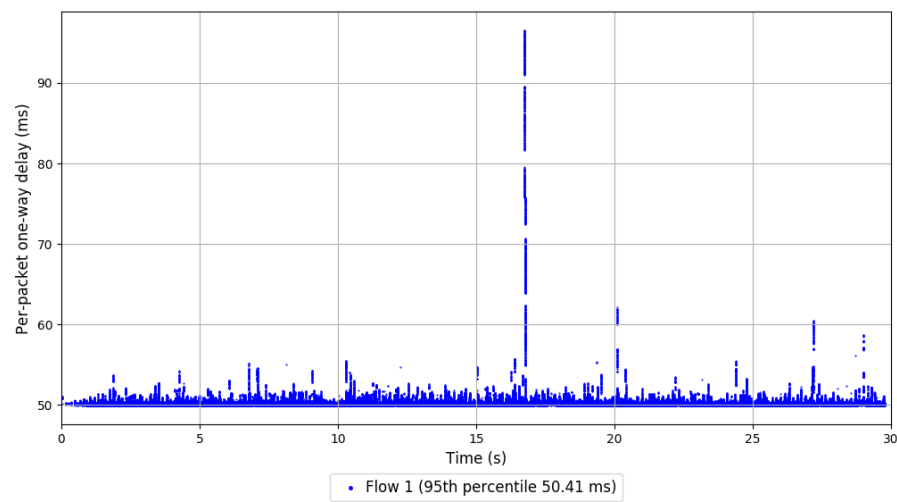
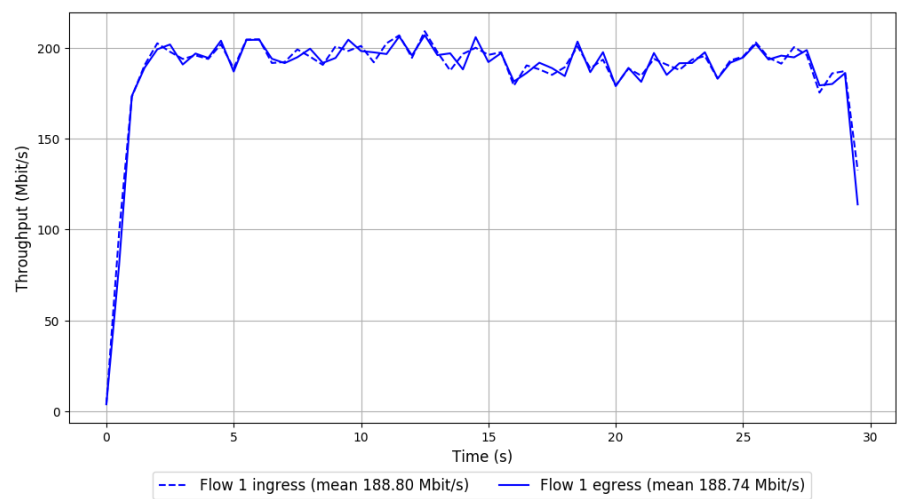
-- Flow 1:

Average throughput: 188.74 Mbit/s

95th percentile per-packet one-way delay: 50.405 ms

Loss rate: 0.37%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-20 02:16:06

End at: 2018-02-20 02:16:36

Below is generated by plot.py at 2018-02-20 07:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.12 Mbit/s

95th percentile per-packet one-way delay: 50.034 ms

Loss rate: 0.34%

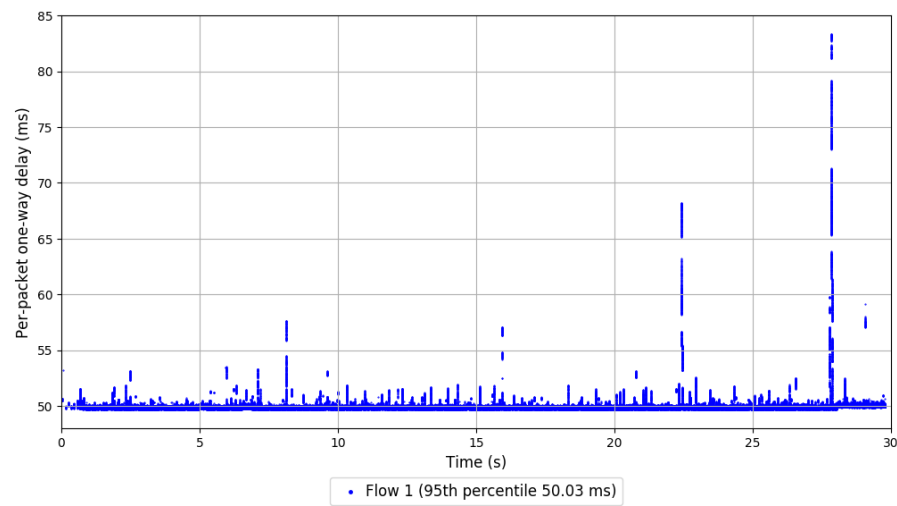
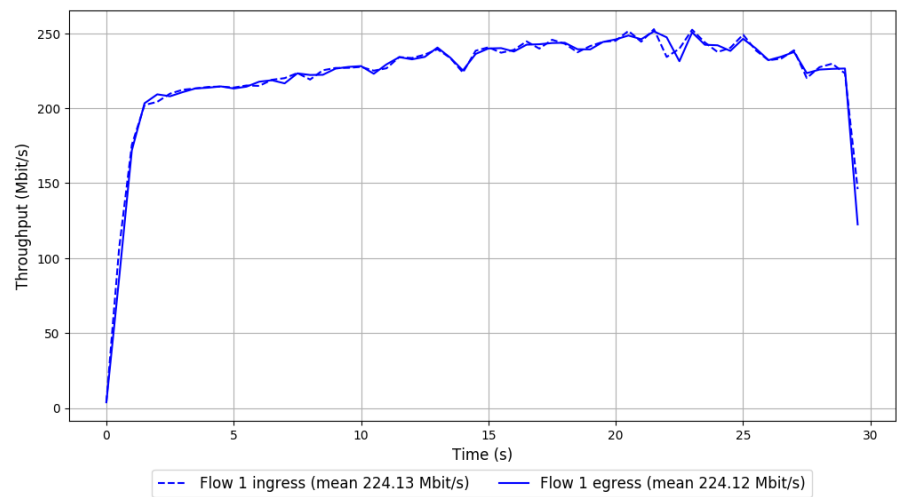
-- Flow 1:

Average throughput: 224.12 Mbit/s

95th percentile per-packet one-way delay: 50.034 ms

Loss rate: 0.34%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-20 02:31:25

End at: 2018-02-20 02:31:55

Below is generated by plot.py at 2018-02-20 07:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.89 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 0.30%

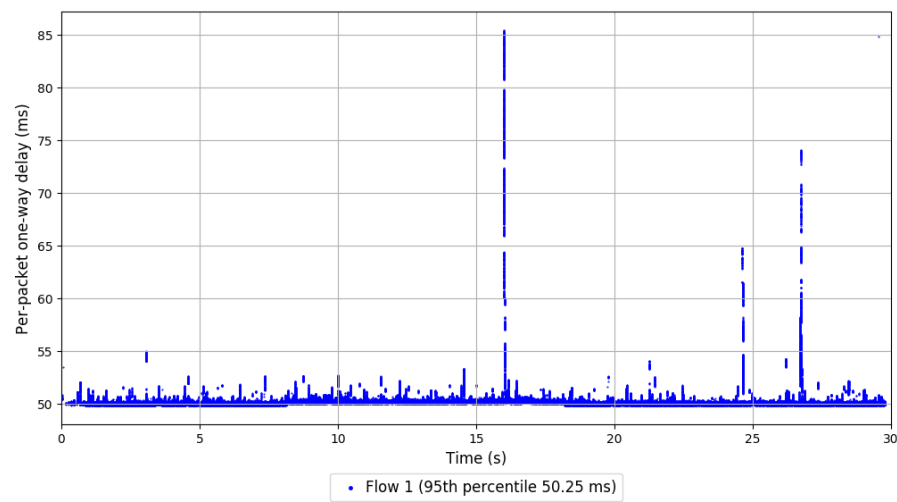
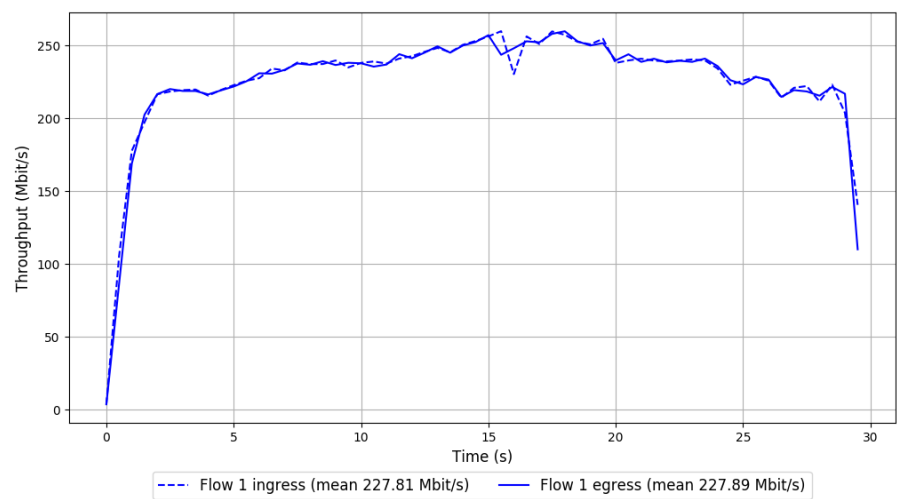
-- Flow 1:

Average throughput: 227.89 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 0.30%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-20 02:46:23

End at: 2018-02-20 02:46:53

Below is generated by plot.py at 2018-02-20 07:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.77 Mbit/s

95th percentile per-packet one-way delay: 50.374 ms

Loss rate: 0.32%

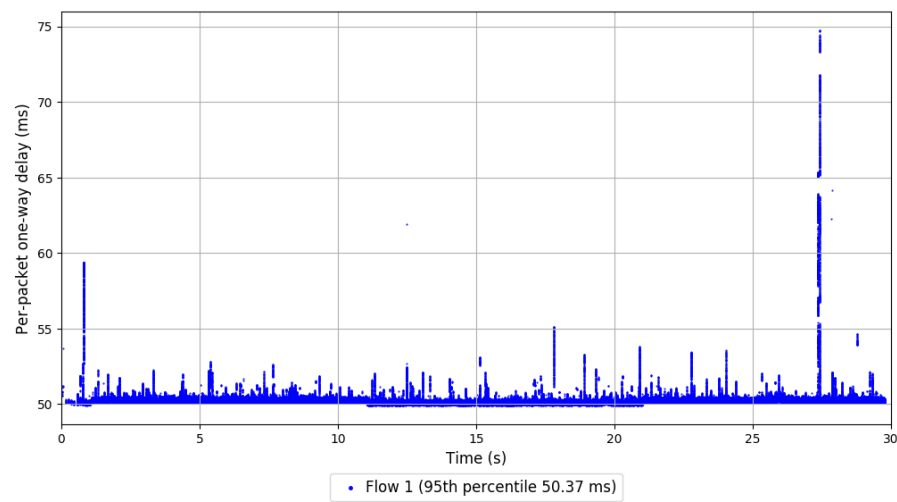
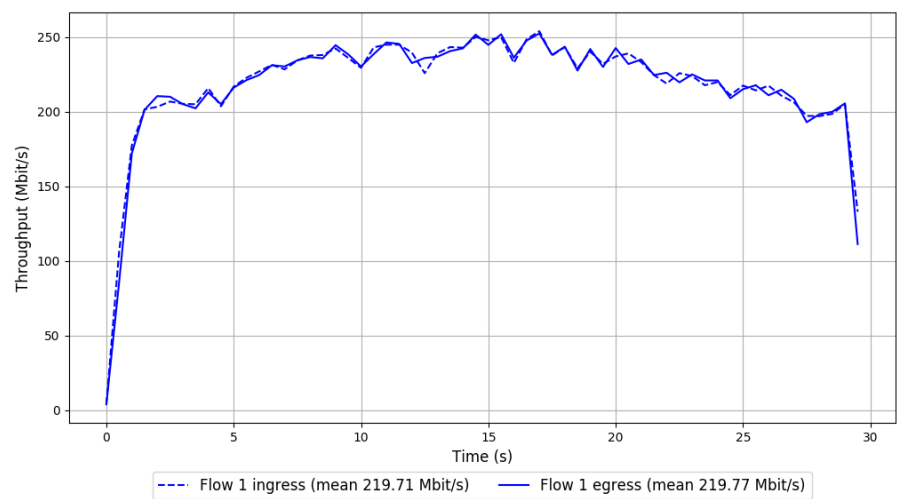
-- Flow 1:

Average throughput: 219.77 Mbit/s

95th percentile per-packet one-way delay: 50.374 ms

Loss rate: 0.32%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-20 03:01:11

End at: 2018-02-20 03:01:41

Below is generated by plot.py at 2018-02-20 07:04:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 50.270 ms

Loss rate: 0.40%

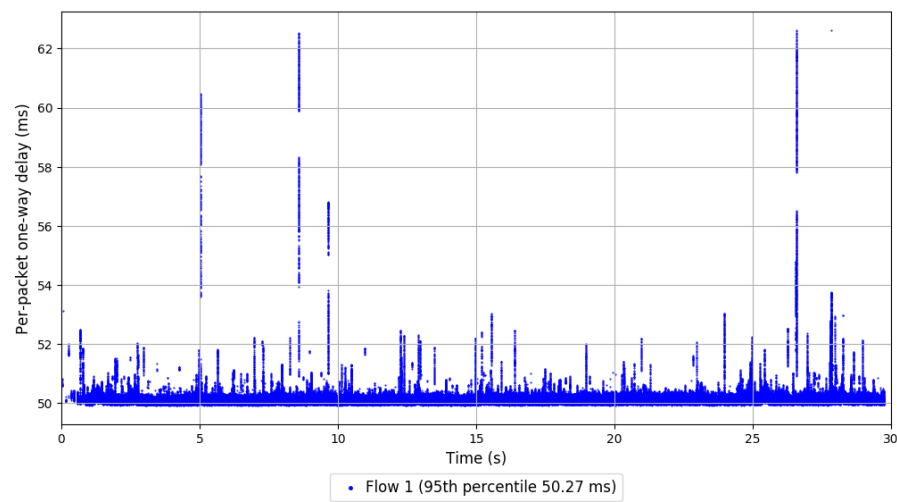
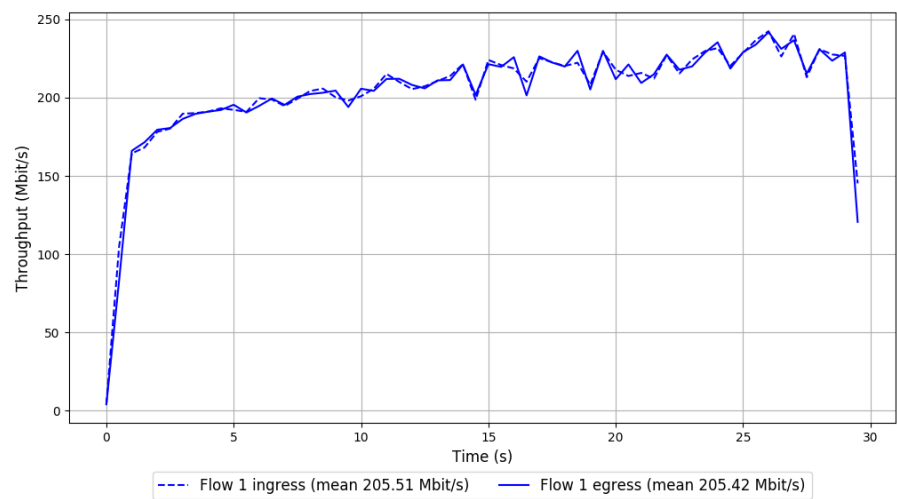
-- Flow 1:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 50.270 ms

Loss rate: 0.40%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-20 00:57:05

End at: 2018-02-20 00:57:35

Below is generated by plot.py at 2018-02-20 07:05:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.31 Mbit/s

95th percentile per-packet one-way delay: 74.001 ms

Loss rate: 0.34%

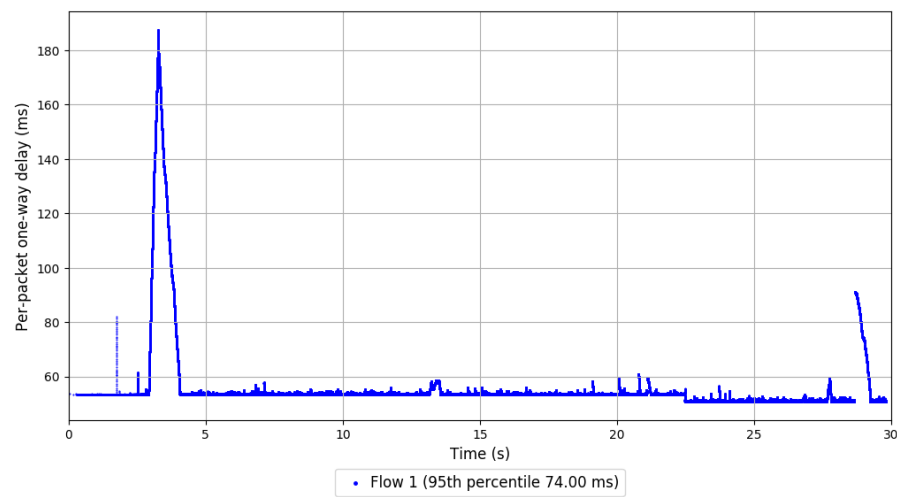
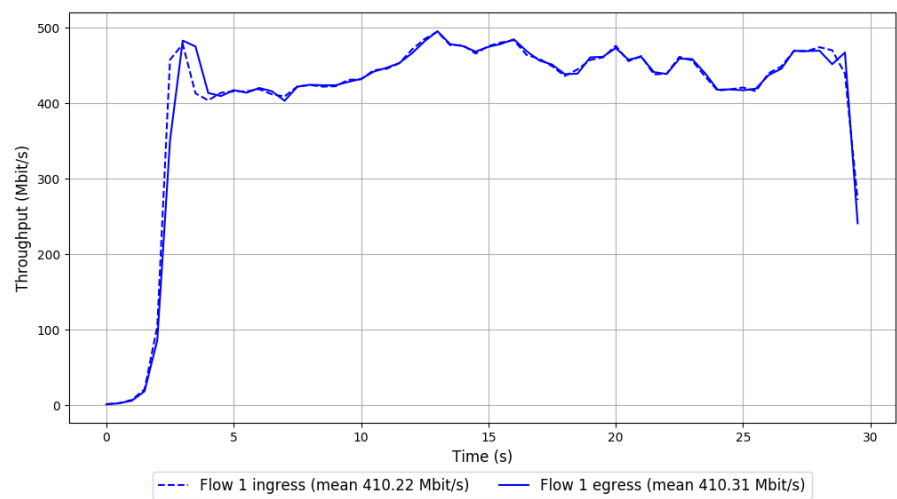
-- Flow 1:

Average throughput: 410.31 Mbit/s

95th percentile per-packet one-way delay: 74.001 ms

Loss rate: 0.34%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-20 01:11:35

End at: 2018-02-20 01:12:05

Below is generated by plot.py at 2018-02-20 07:05:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.27 Mbit/s

95th percentile per-packet one-way delay: 109.759 ms

Loss rate: 0.85%

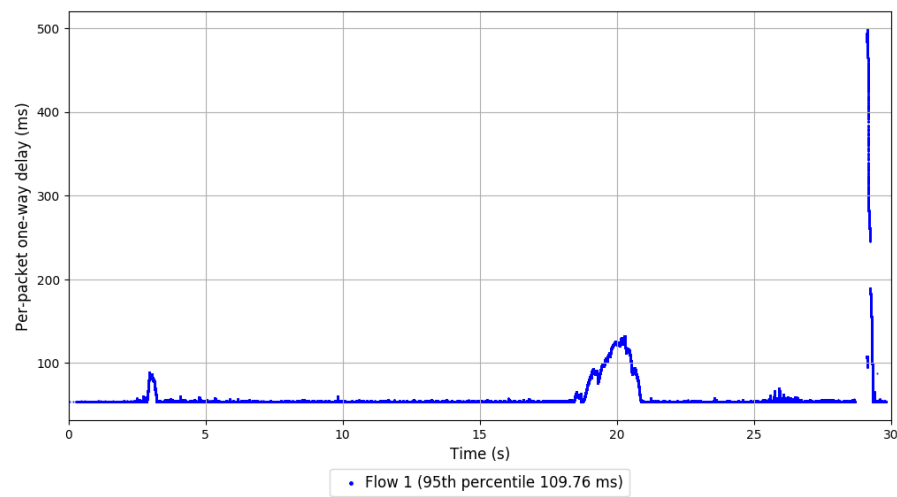
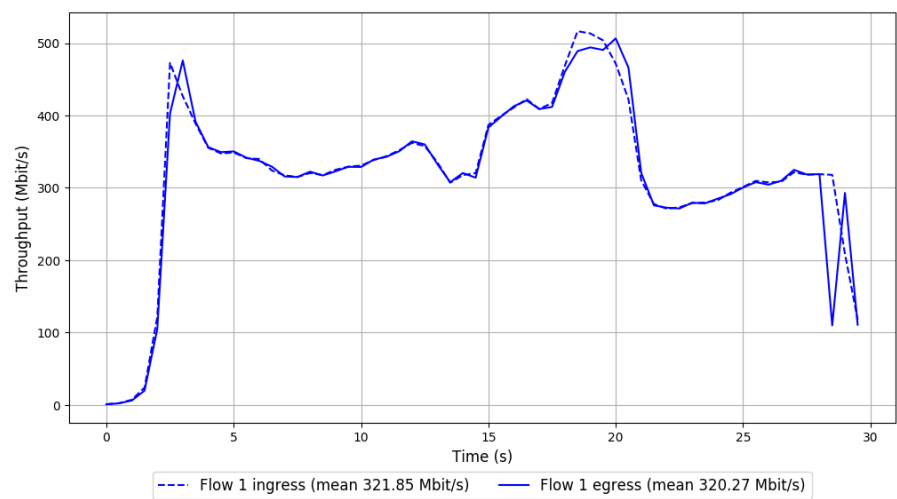
-- Flow 1:

Average throughput: 320.27 Mbit/s

95th percentile per-packet one-way delay: 109.759 ms

Loss rate: 0.85%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-20 01:25:57

End at: 2018-02-20 01:26:27

Below is generated by plot.py at 2018-02-20 07:05:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.55 Mbit/s

95th percentile per-packet one-way delay: 53.268 ms

Loss rate: 0.77%

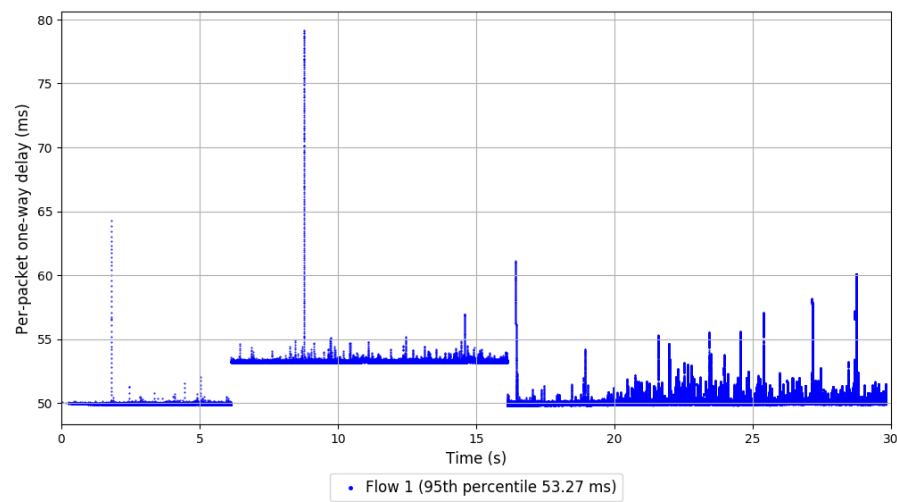
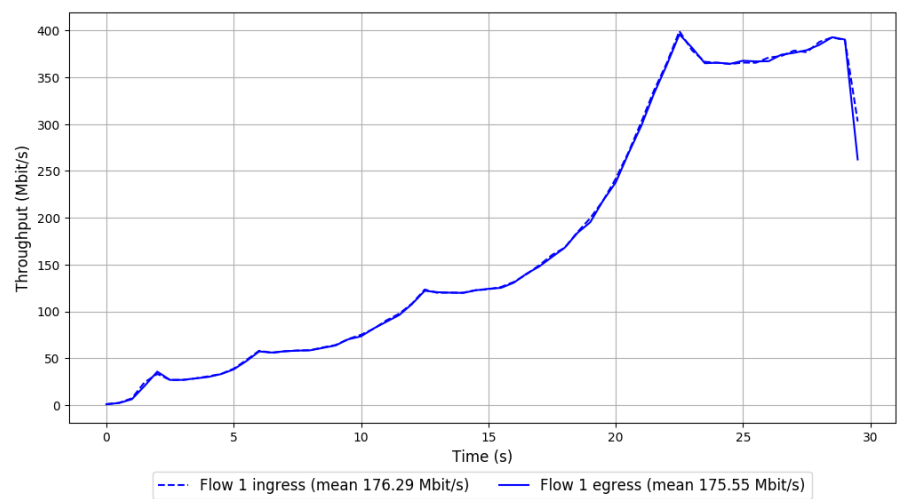
-- Flow 1:

Average throughput: 175.55 Mbit/s

95th percentile per-packet one-way delay: 53.268 ms

Loss rate: 0.77%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-20 01:40:13

End at: 2018-02-20 01:40:43

Below is generated by plot.py at 2018-02-20 07:06:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.37 Mbit/s

95th percentile per-packet one-way delay: 54.693 ms

Loss rate: 0.43%

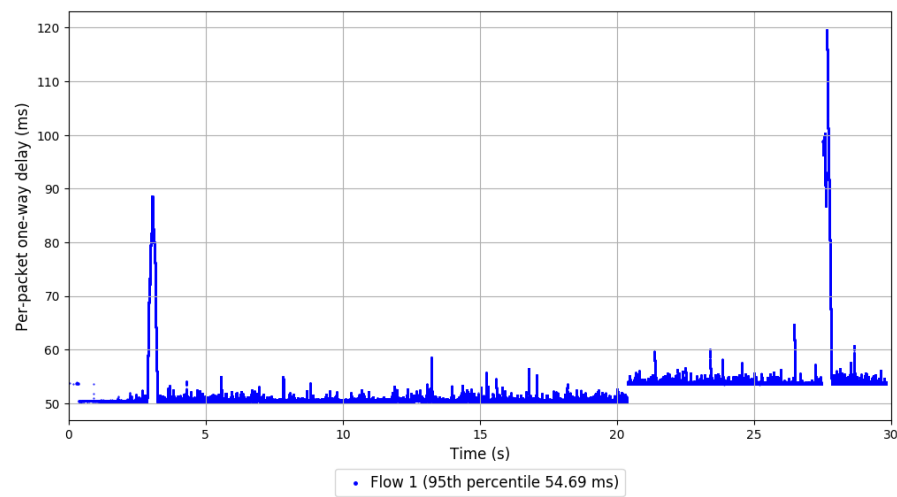
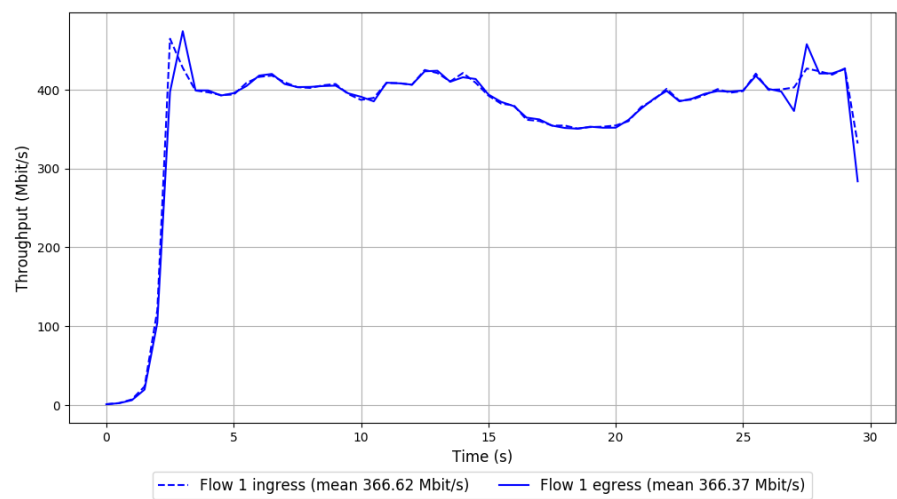
-- Flow 1:

Average throughput: 366.37 Mbit/s

95th percentile per-packet one-way delay: 54.693 ms

Loss rate: 0.43%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-20 01:54:49

End at: 2018-02-20 01:55:19

Below is generated by plot.py at 2018-02-20 07:06:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.10 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.37%

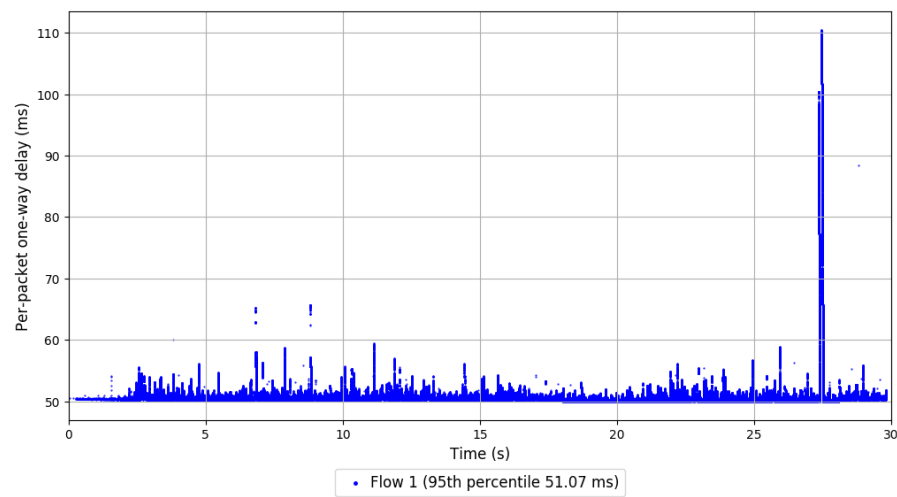
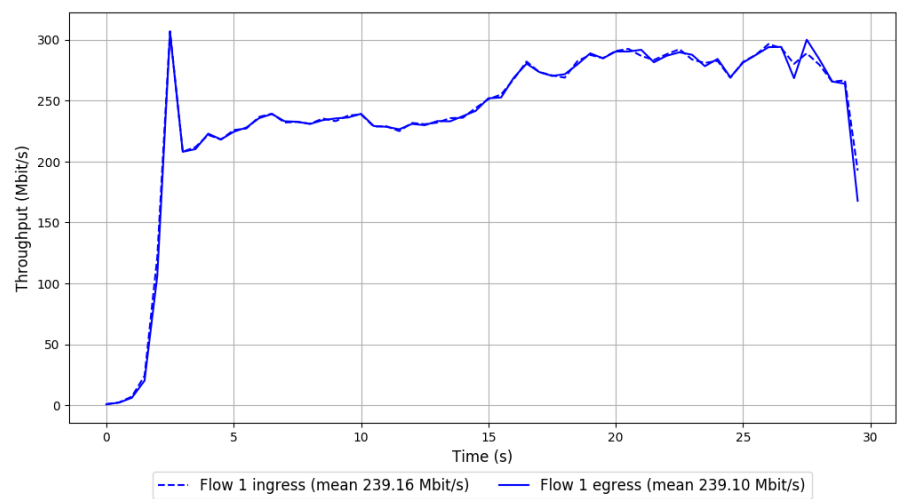
-- Flow 1:

Average throughput: 239.10 Mbit/s

95th percentile per-packet one-way delay: 51.072 ms

Loss rate: 0.37%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-20 02:09:14

End at: 2018-02-20 02:09:44

Below is generated by plot.py at 2018-02-20 07:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.24 Mbit/s

95th percentile per-packet one-way delay: 52.828 ms

Loss rate: 0.42%

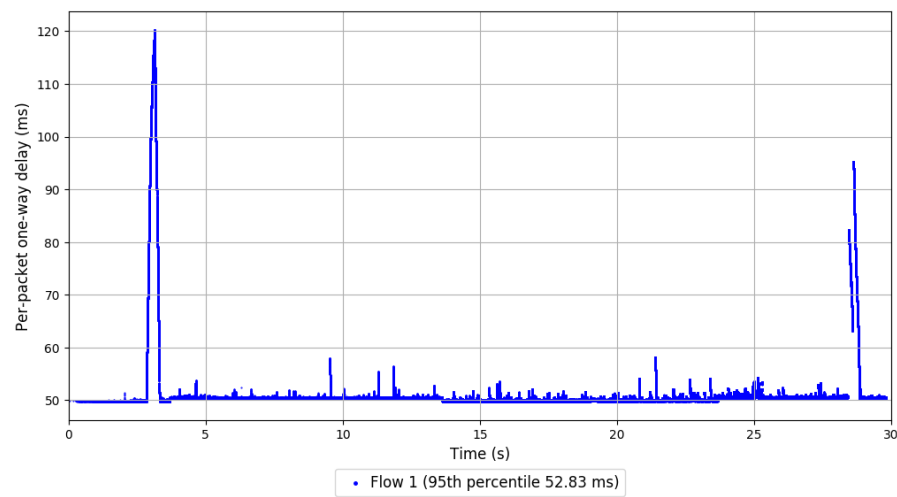
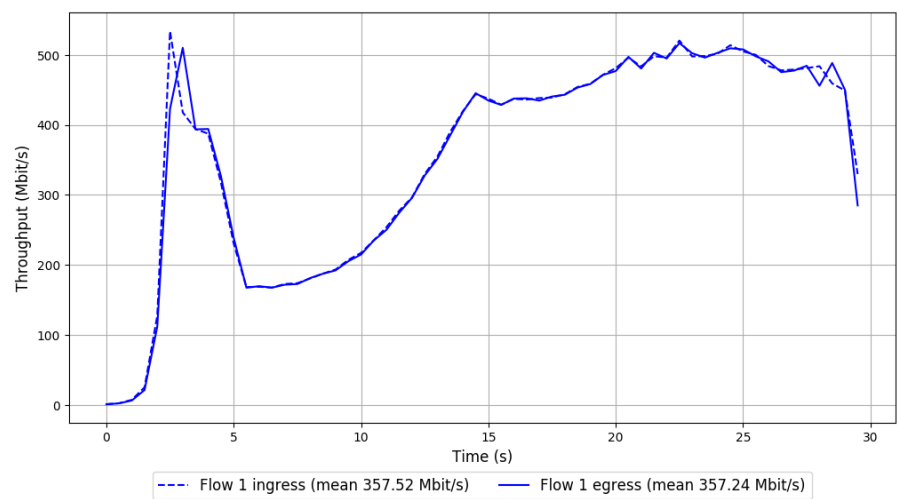
-- Flow 1:

Average throughput: 357.24 Mbit/s

95th percentile per-packet one-way delay: 52.828 ms

Loss rate: 0.42%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-20 02:24:25

End at: 2018-02-20 02:24:55

Below is generated by plot.py at 2018-02-20 07:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.80 Mbit/s

95th percentile per-packet one-way delay: 56.590 ms

Loss rate: 0.53%

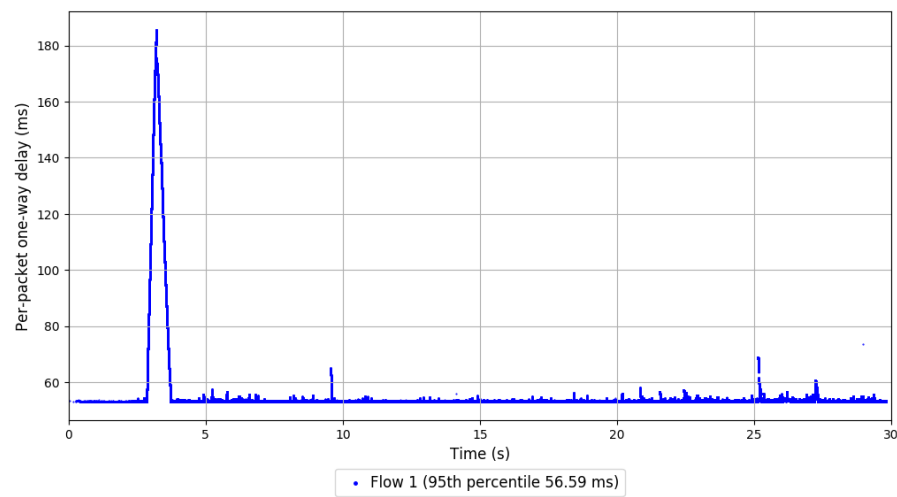
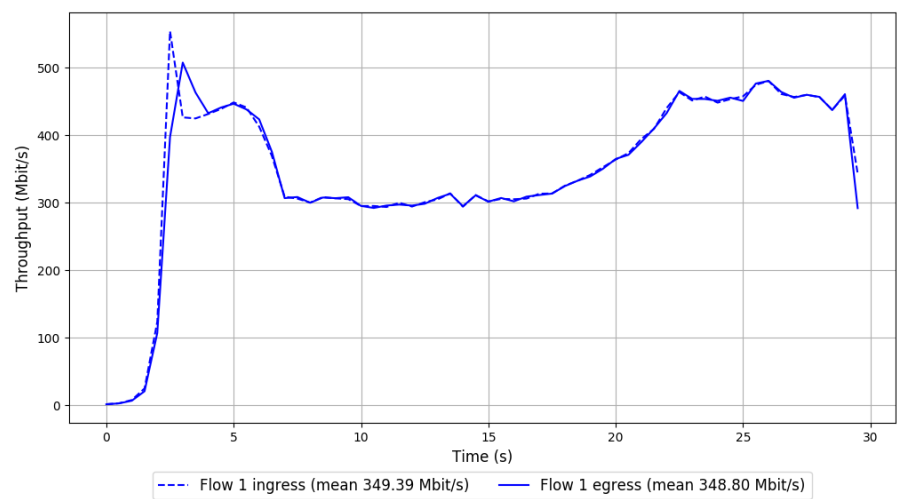
-- Flow 1:

Average throughput: 348.80 Mbit/s

95th percentile per-packet one-way delay: 56.590 ms

Loss rate: 0.53%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-20 02:39:36

End at: 2018-02-20 02:40:06

Below is generated by plot.py at 2018-02-20 07:10:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.79 Mbit/s

95th percentile per-packet one-way delay: 85.685 ms

Loss rate: 0.41%

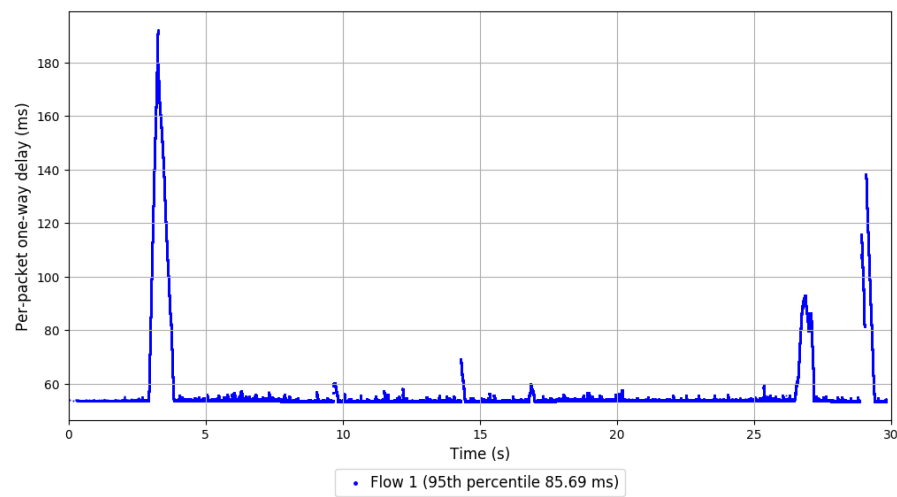
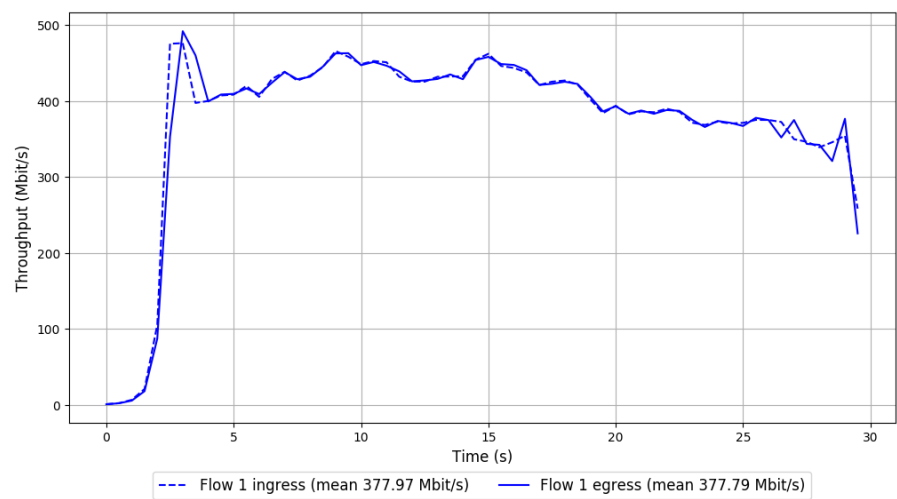
-- Flow 1:

Average throughput: 377.79 Mbit/s

95th percentile per-packet one-way delay: 85.685 ms

Loss rate: 0.41%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-20 02:54:10

End at: 2018-02-20 02:54:40

Below is generated by plot.py at 2018-02-20 07:11:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.44 Mbit/s

95th percentile per-packet one-way delay: 51.702 ms

Loss rate: 0.36%

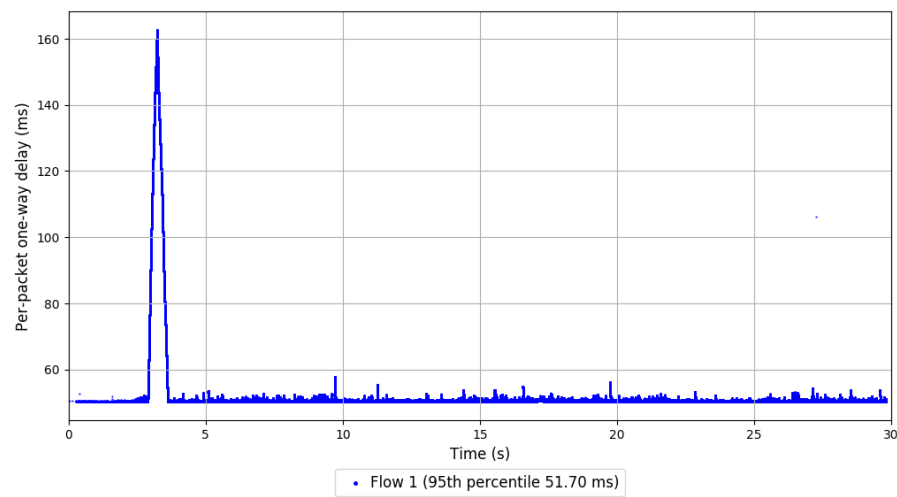
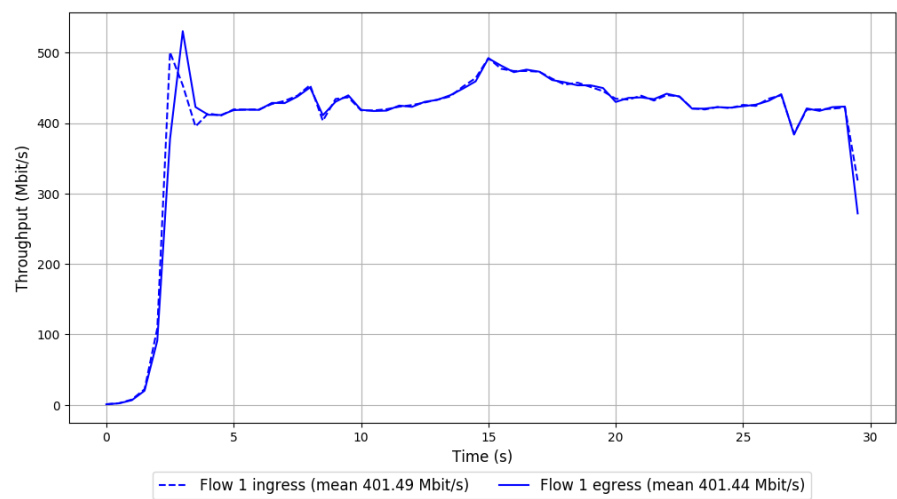
-- Flow 1:

Average throughput: 401.44 Mbit/s

95th percentile per-packet one-way delay: 51.702 ms

Loss rate: 0.36%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-20 03:09:14

End at: 2018-02-20 03:09:44

Below is generated by plot.py at 2018-02-20 07:11:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.39 Mbit/s

95th percentile per-packet one-way delay: 55.777 ms

Loss rate: 0.37%

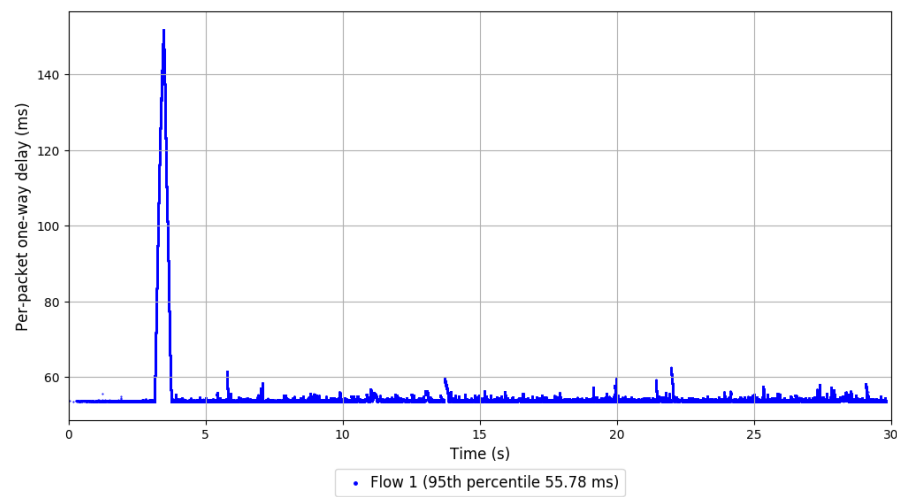
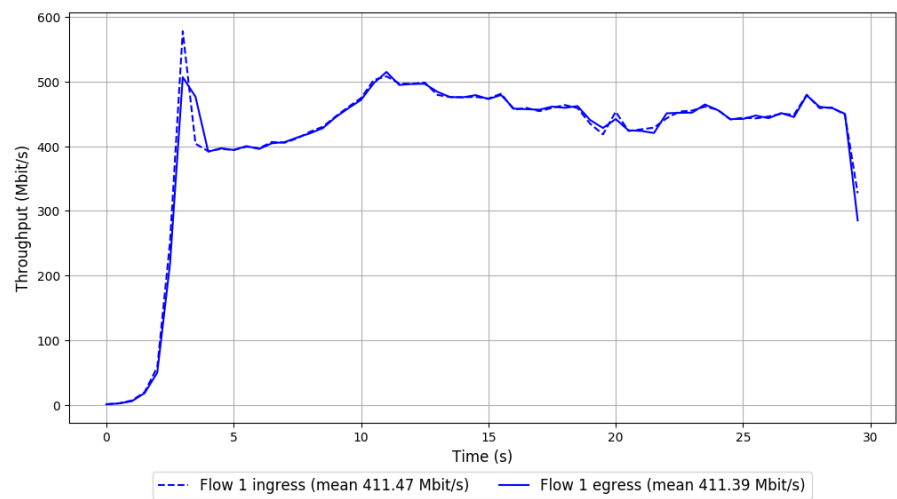
-- Flow 1:

Average throughput: 411.39 Mbit/s

95th percentile per-packet one-way delay: 55.777 ms

Loss rate: 0.37%

Run 10: Report of Vivace-latency — Data Link

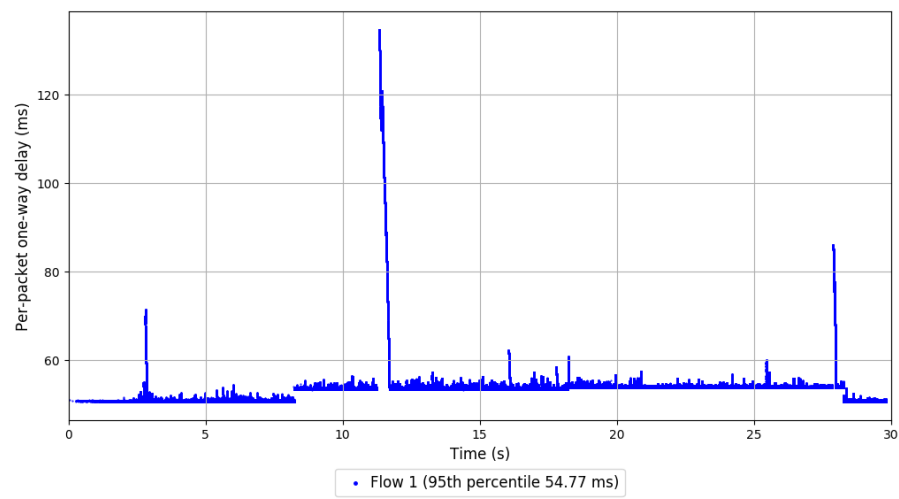
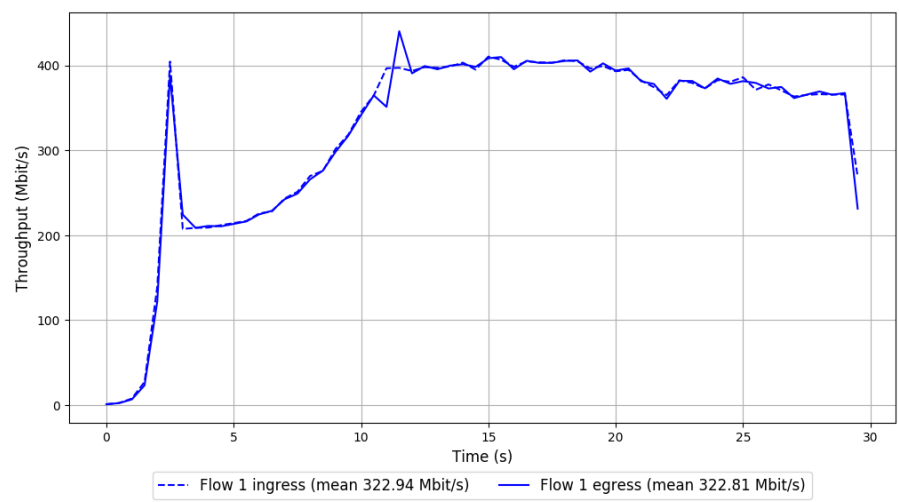


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-20 00:58:55
End at: 2018-02-20 00:59:25

# Below is generated by plot.py at 2018-02-20 07:11:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 322.81 Mbit/s
95th percentile per-packet one-way delay: 54.765 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 322.81 Mbit/s
95th percentile per-packet one-way delay: 54.765 ms
Loss rate: 0.38%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-20 01:13:20

End at: 2018-02-20 01:13:50

Below is generated by plot.py at 2018-02-20 07:11:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.13 Mbit/s

95th percentile per-packet one-way delay: 55.082 ms

Loss rate: 0.46%

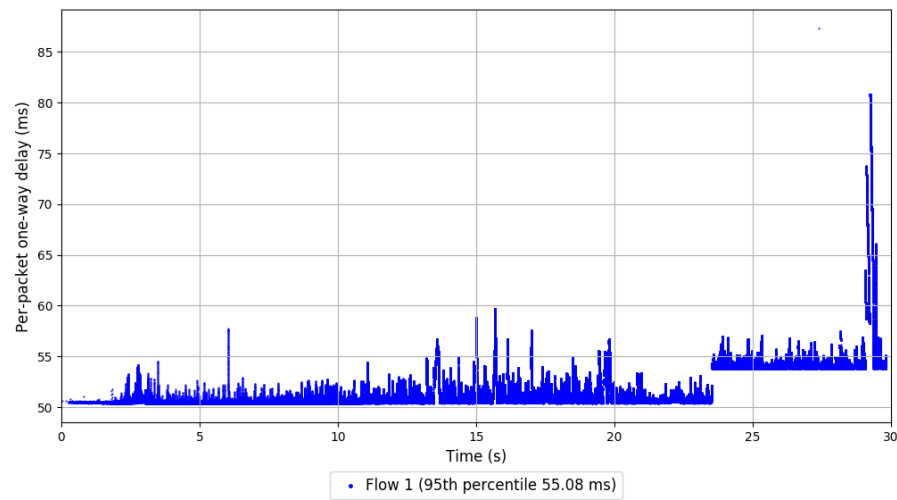
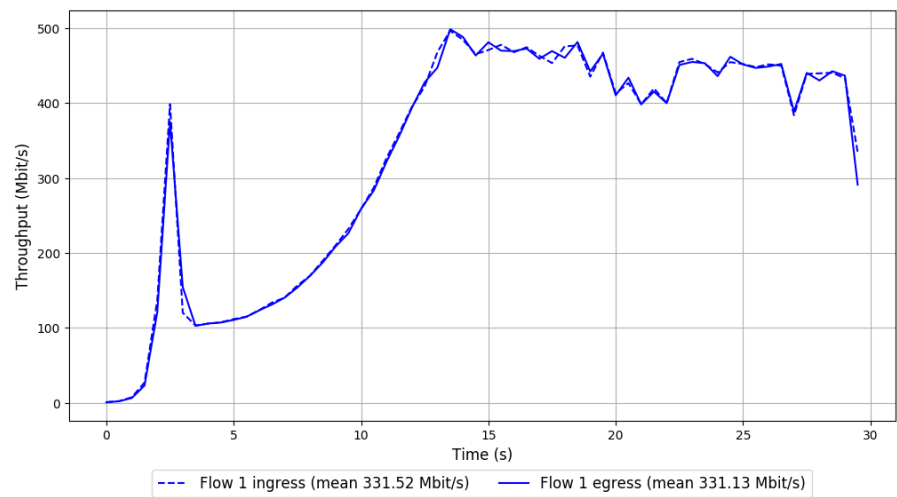
-- Flow 1:

Average throughput: 331.13 Mbit/s

95th percentile per-packet one-way delay: 55.082 ms

Loss rate: 0.46%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-20 01:27:33

End at: 2018-02-20 01:28:03

Below is generated by plot.py at 2018-02-20 07:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.95 Mbit/s

95th percentile per-packet one-way delay: 58.060 ms

Loss rate: 0.39%

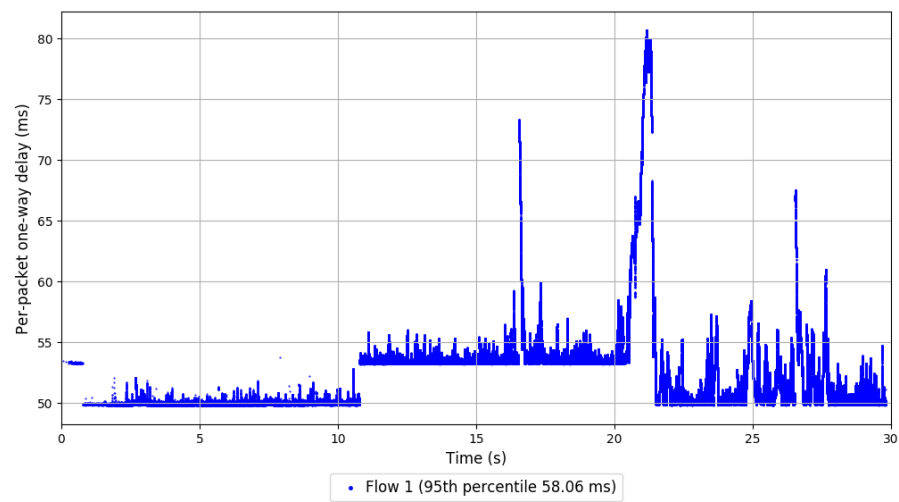
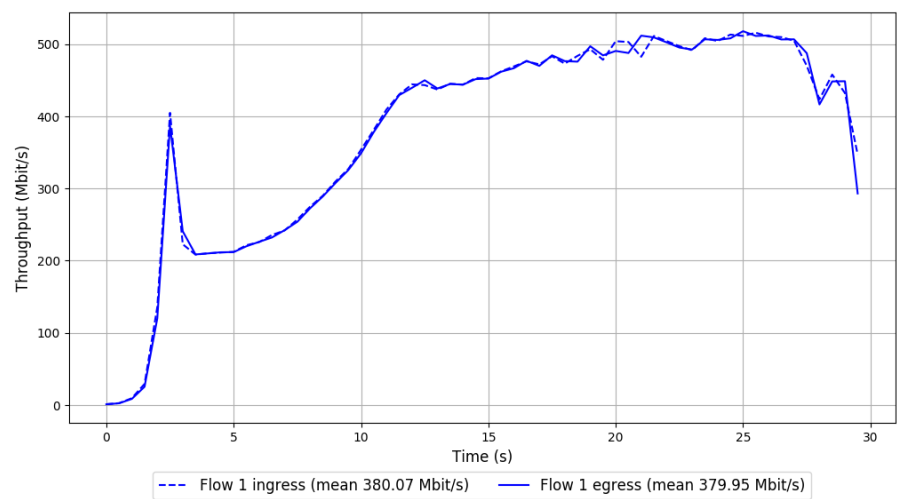
-- Flow 1:

Average throughput: 379.95 Mbit/s

95th percentile per-packet one-way delay: 58.060 ms

Loss rate: 0.39%

Run 3: Report of Vivace-loss — Data Link

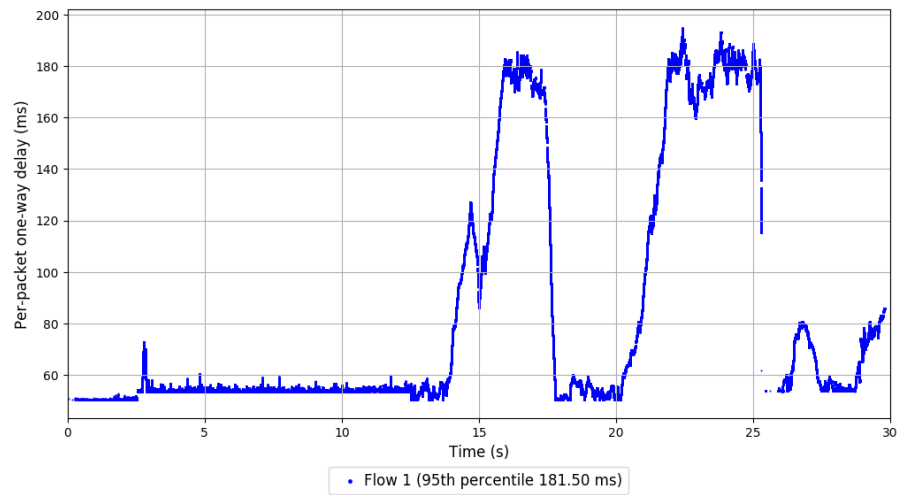
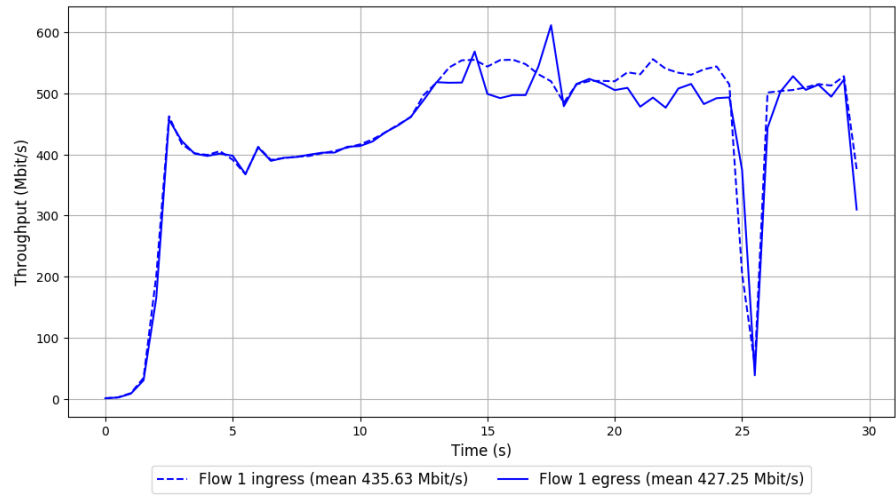


```
Run 4: Statistics of Vivace-loss

Start at: 2018-02-20 01:42:01
End at: 2018-02-20 01:42:31

# Below is generated by plot.py at 2018-02-20 07:14:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 427.25 Mbit/s
95th percentile per-packet one-way delay: 181.502 ms
Loss rate: 2.27%
-- Flow 1:
Average throughput: 427.25 Mbit/s
95th percentile per-packet one-way delay: 181.502 ms
Loss rate: 2.27%
```

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-20 01:56:29

End at: 2018-02-20 01:56:59

Below is generated by plot.py at 2018-02-20 07:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.52 Mbit/s

95th percentile per-packet one-way delay: 64.877 ms

Loss rate: 0.42%

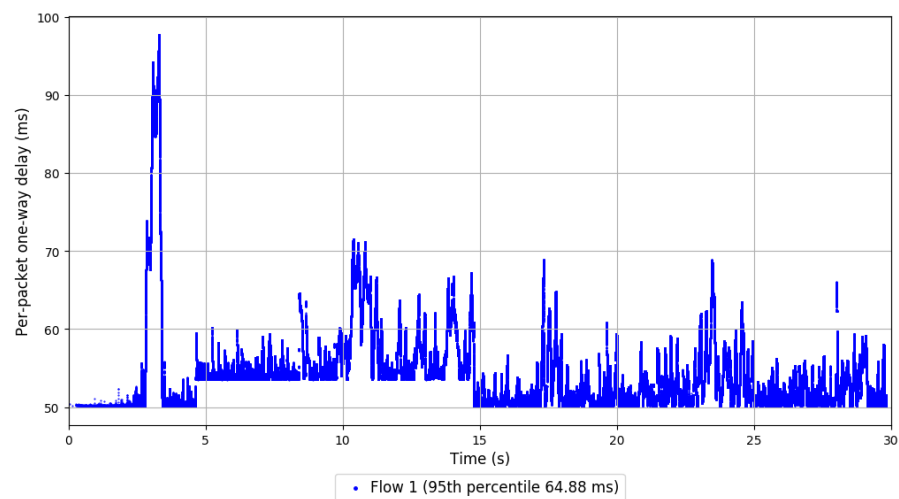
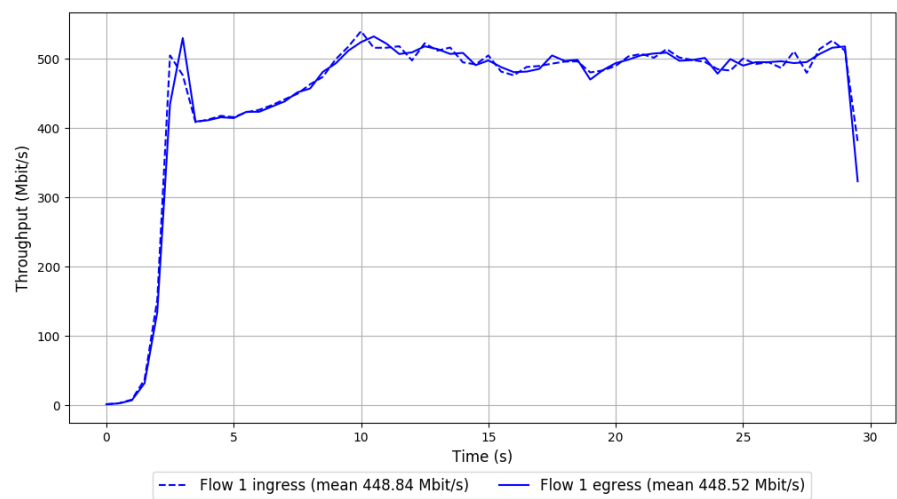
-- Flow 1:

Average throughput: 448.52 Mbit/s

95th percentile per-packet one-way delay: 64.877 ms

Loss rate: 0.42%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-20 02:11:01

End at: 2018-02-20 02:11:31

Below is generated by plot.py at 2018-02-20 07:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.62 Mbit/s

95th percentile per-packet one-way delay: 201.433 ms

Loss rate: 15.22%

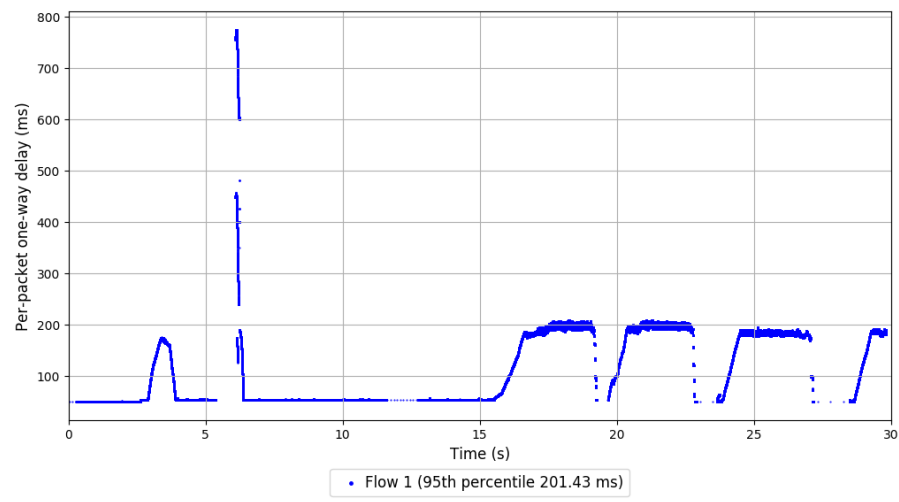
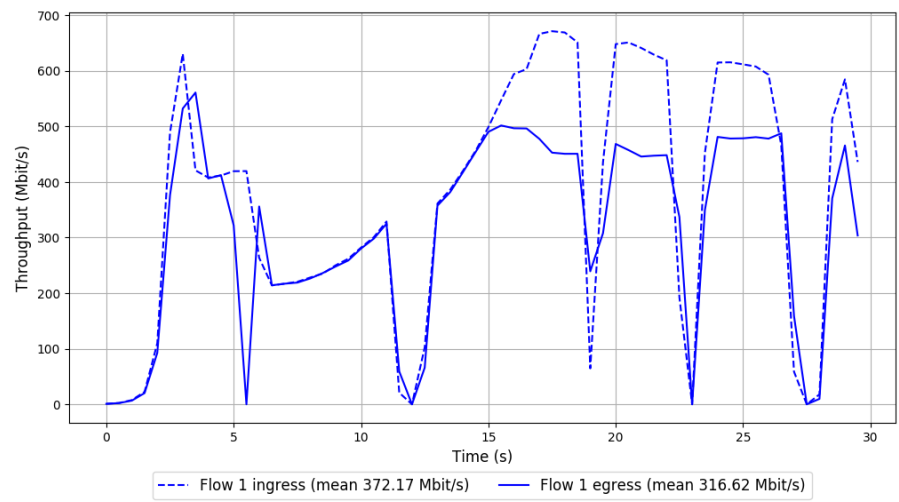
-- Flow 1:

Average throughput: 316.62 Mbit/s

95th percentile per-packet one-way delay: 201.433 ms

Loss rate: 15.22%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-20 02:26:12

End at: 2018-02-20 02:26:42

Below is generated by plot.py at 2018-02-20 07:18:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.69 Mbit/s

95th percentile per-packet one-way delay: 183.195 ms

Loss rate: 3.86%

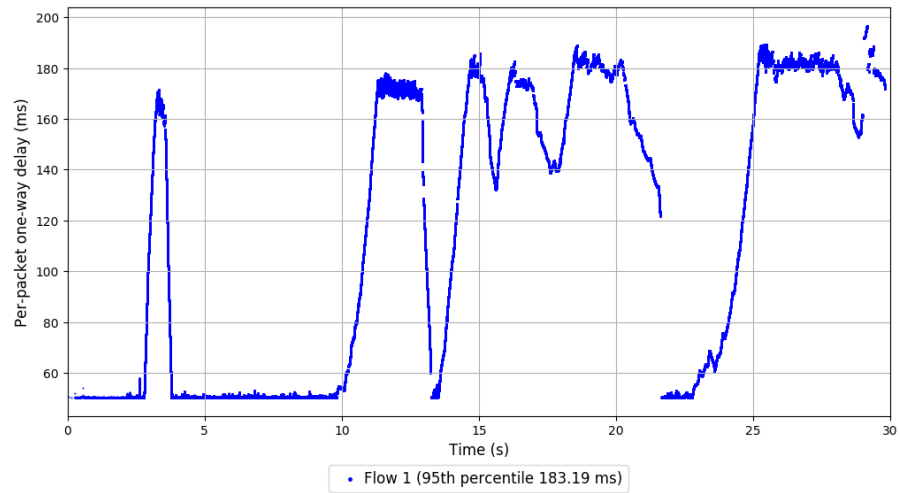
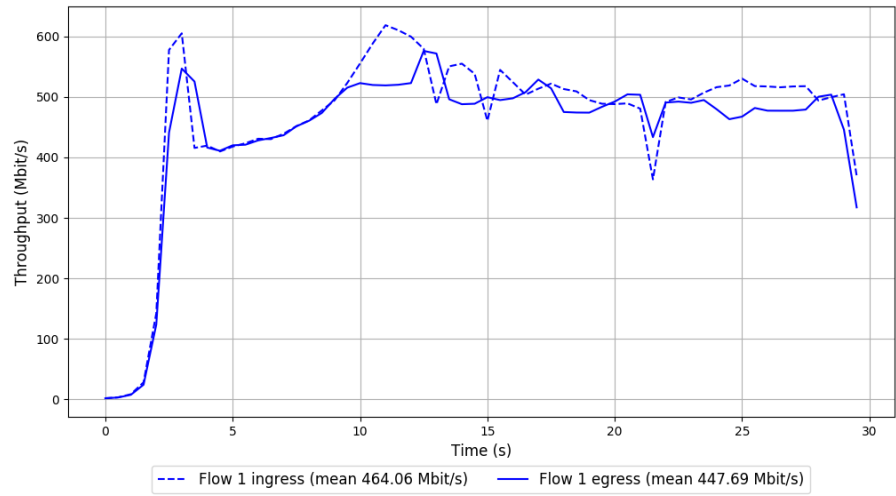
-- Flow 1:

Average throughput: 447.69 Mbit/s

95th percentile per-packet one-way delay: 183.195 ms

Loss rate: 3.86%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-20 02:41:24

End at: 2018-02-20 02:41:54

Below is generated by plot.py at 2018-02-20 07:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.20 Mbit/s

95th percentile per-packet one-way delay: 174.035 ms

Loss rate: 1.67%

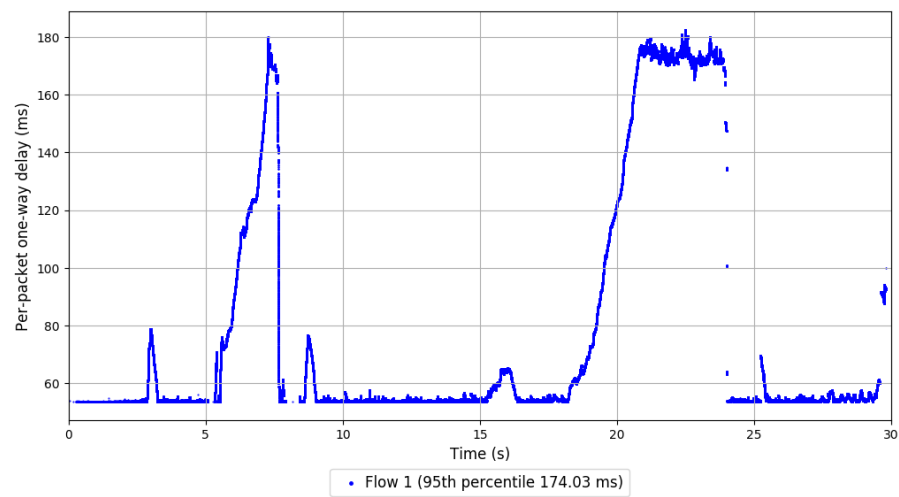
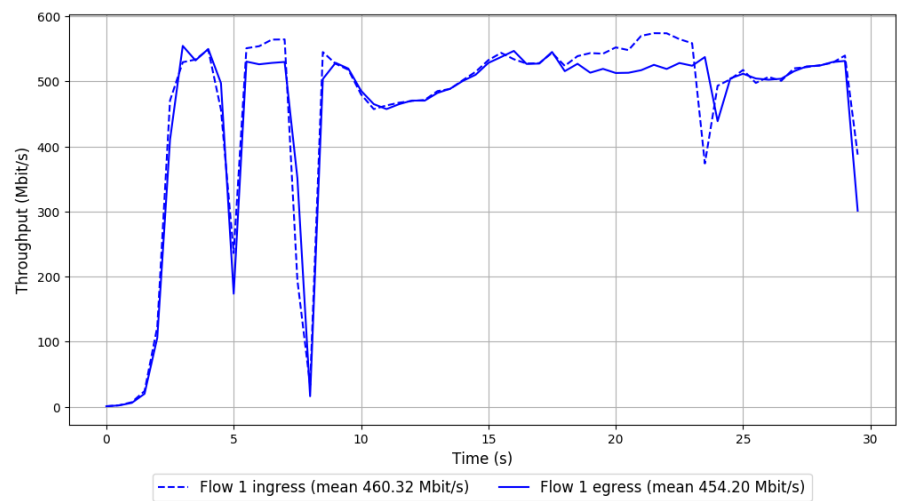
-- Flow 1:

Average throughput: 454.20 Mbit/s

95th percentile per-packet one-way delay: 174.035 ms

Loss rate: 1.67%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-20 02:56:00

End at: 2018-02-20 02:56:30

Below is generated by plot.py at 2018-02-20 07:19:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.86 Mbit/s

95th percentile per-packet one-way delay: 192.559 ms

Loss rate: 2.95%

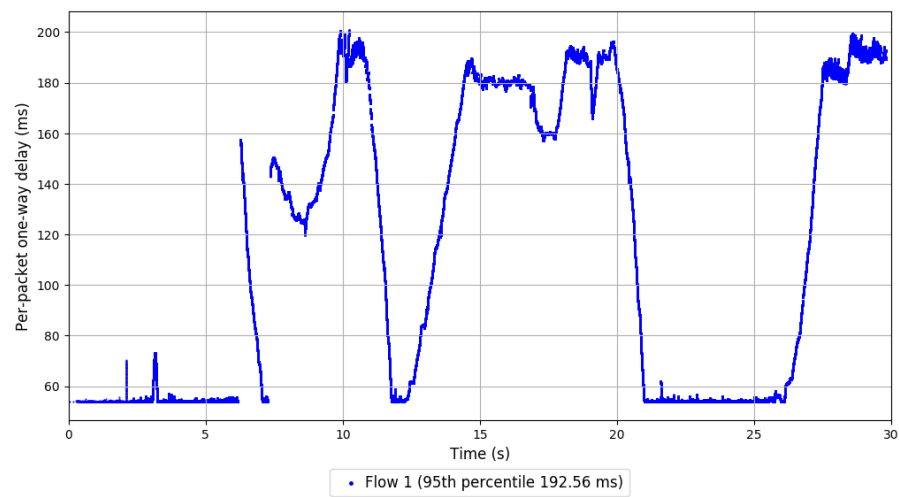
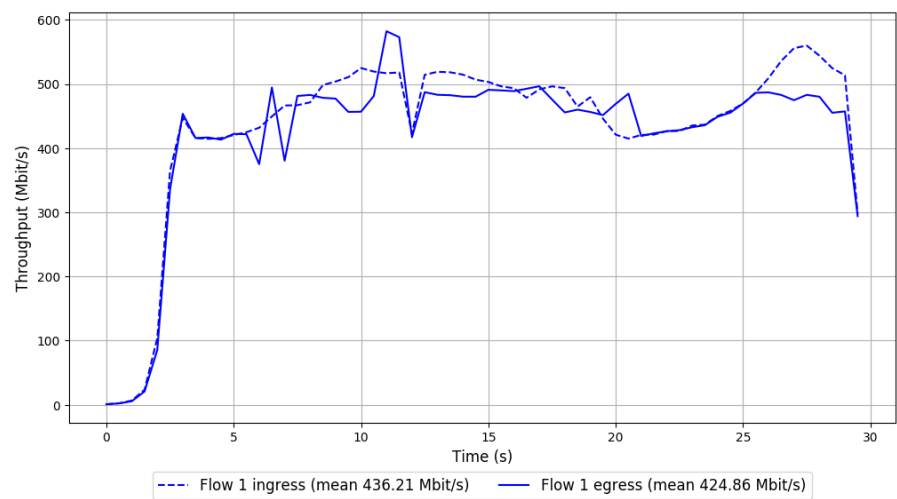
-- Flow 1:

Average throughput: 424.86 Mbit/s

95th percentile per-packet one-way delay: 192.559 ms

Loss rate: 2.95%

Run 9: Report of Vivace-loss — Data Link

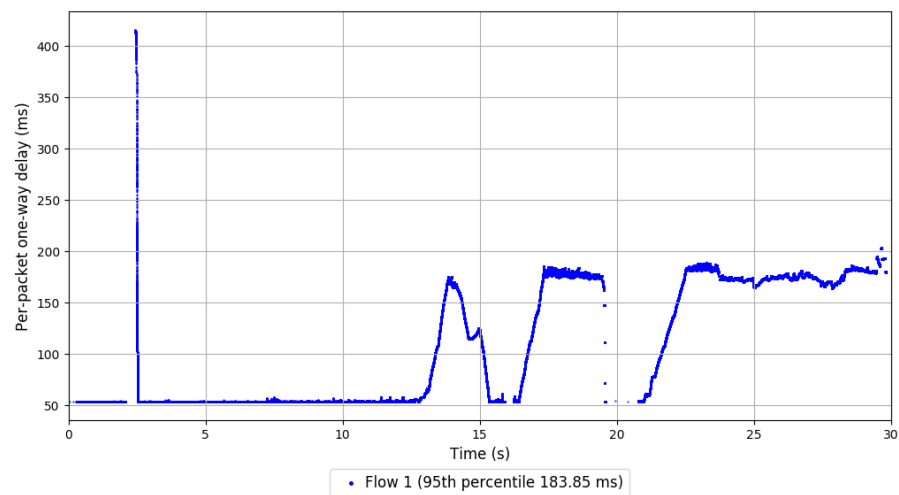
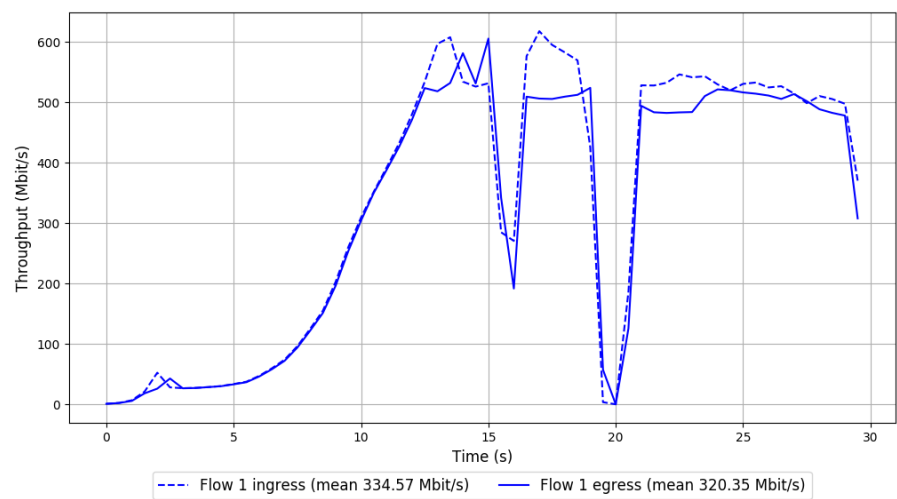


```
Run 10: Statistics of Vivace-loss

Start at: 2018-02-20 03:11:04
End at: 2018-02-20 03:11:34

# Below is generated by plot.py at 2018-02-20 07:19:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.35 Mbit/s
95th percentile per-packet one-way delay: 183.850 ms
Loss rate: 4.60%
-- Flow 1:
Average throughput: 320.35 Mbit/s
95th percentile per-packet one-way delay: 183.850 ms
Loss rate: 4.60%
```

Run 10: Report of Vivace-loss — Data Link

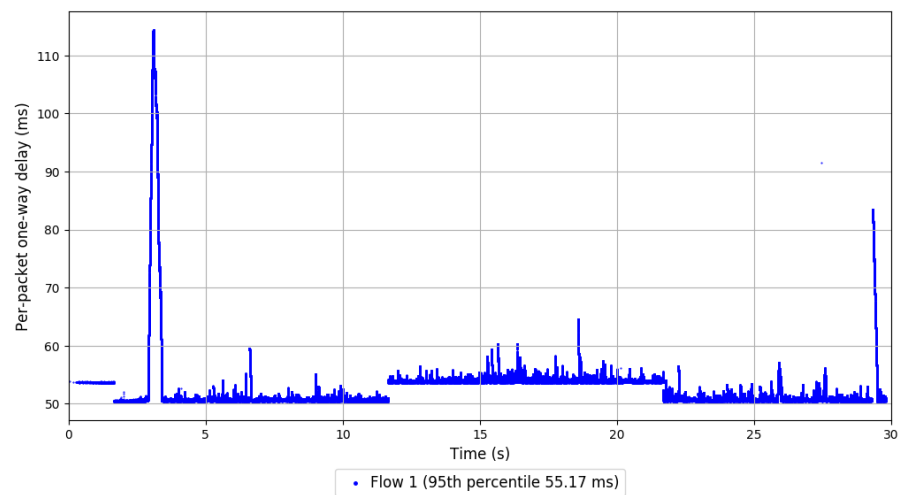
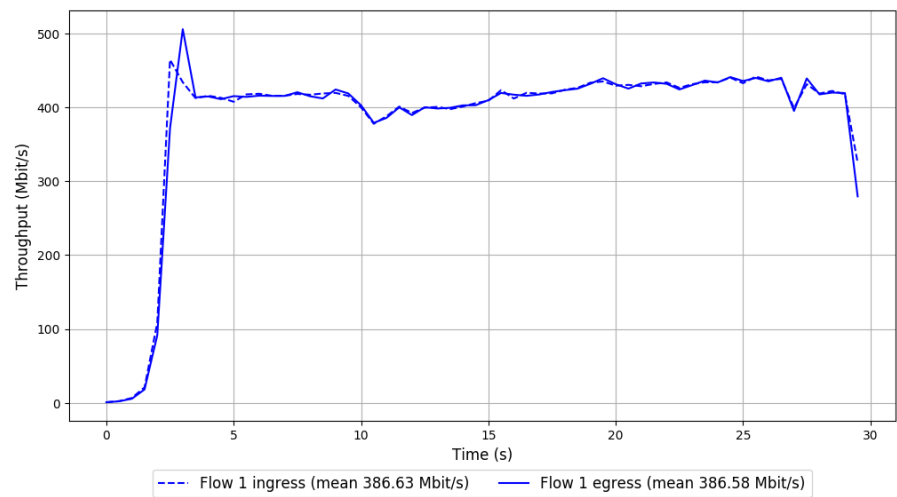


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-20 00:51:22
End at: 2018-02-20 00:51:52

# Below is generated by plot.py at 2018-02-20 07:21:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 386.58 Mbit/s
95th percentile per-packet one-way delay: 55.175 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 386.58 Mbit/s
95th percentile per-packet one-way delay: 55.175 ms
Loss rate: 0.37%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-20 01:06:04

End at: 2018-02-20 01:06:34

Below is generated by plot.py at 2018-02-20 07:21:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.58 Mbit/s

95th percentile per-packet one-way delay: 56.928 ms

Loss rate: 0.42%

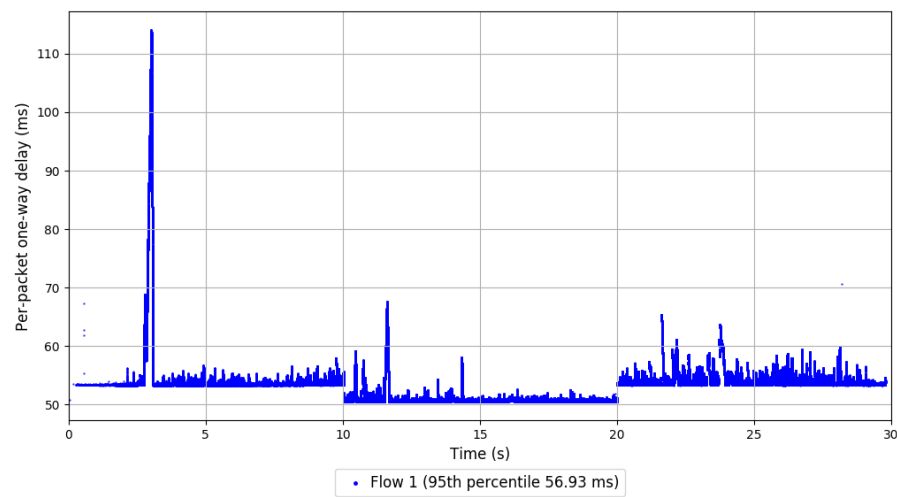
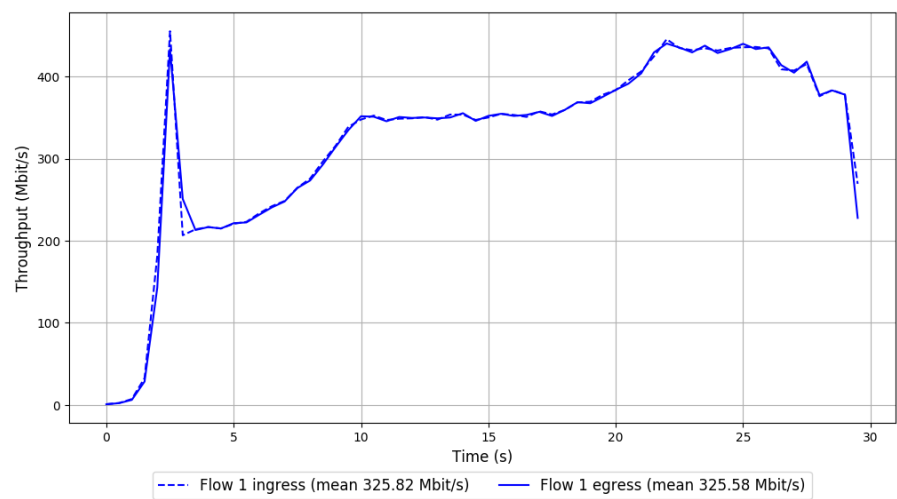
-- Flow 1:

Average throughput: 325.58 Mbit/s

95th percentile per-packet one-way delay: 56.928 ms

Loss rate: 0.42%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-20 01:20:21

End at: 2018-02-20 01:20:51

Below is generated by plot.py at 2018-02-20 07:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.98 Mbit/s

95th percentile per-packet one-way delay: 66.998 ms

Loss rate: 0.70%

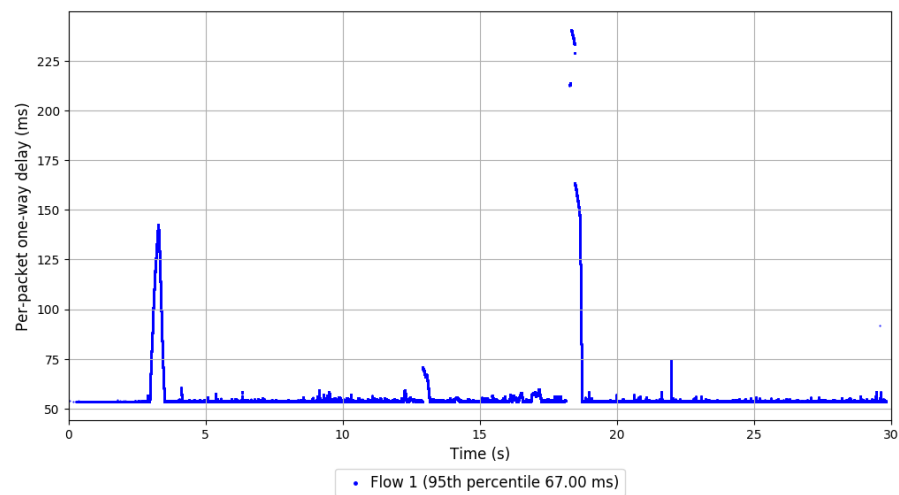
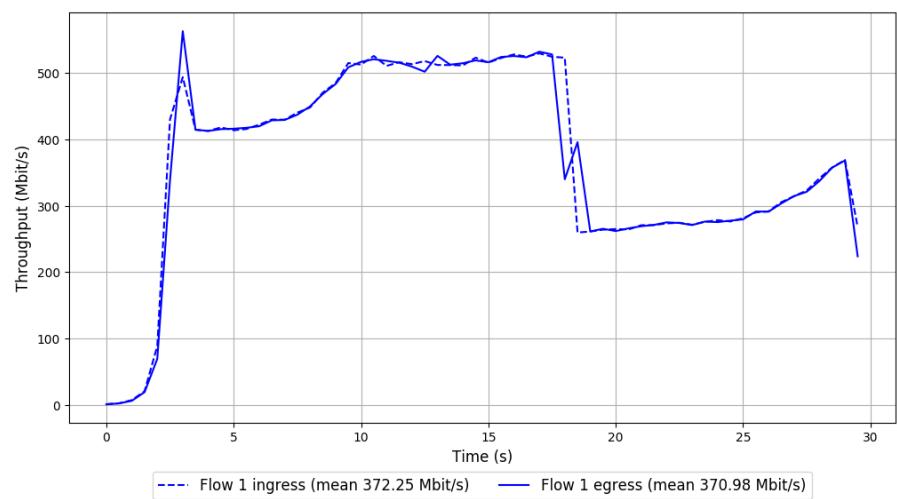
-- Flow 1:

Average throughput: 370.98 Mbit/s

95th percentile per-packet one-way delay: 66.998 ms

Loss rate: 0.70%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-20 01:34:45

End at: 2018-02-20 01:35:15

Below is generated by plot.py at 2018-02-20 07:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.78 Mbit/s

95th percentile per-packet one-way delay: 77.913 ms

Loss rate: 2.03%

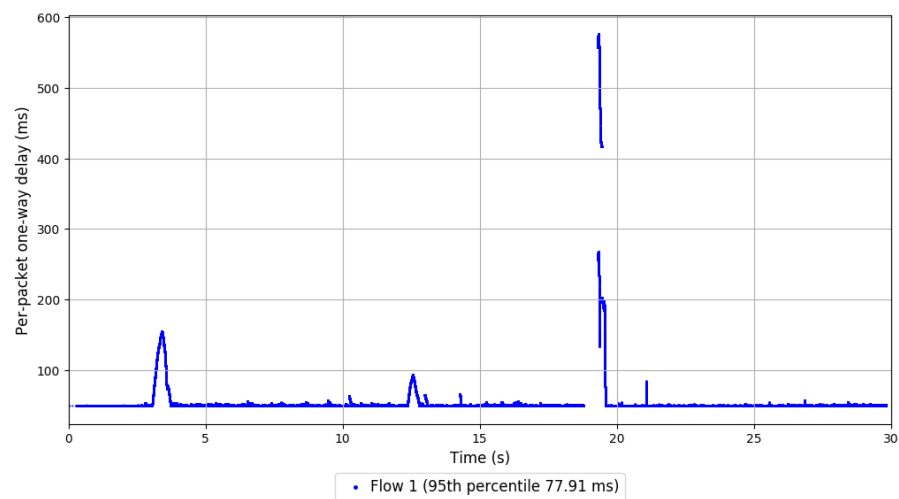
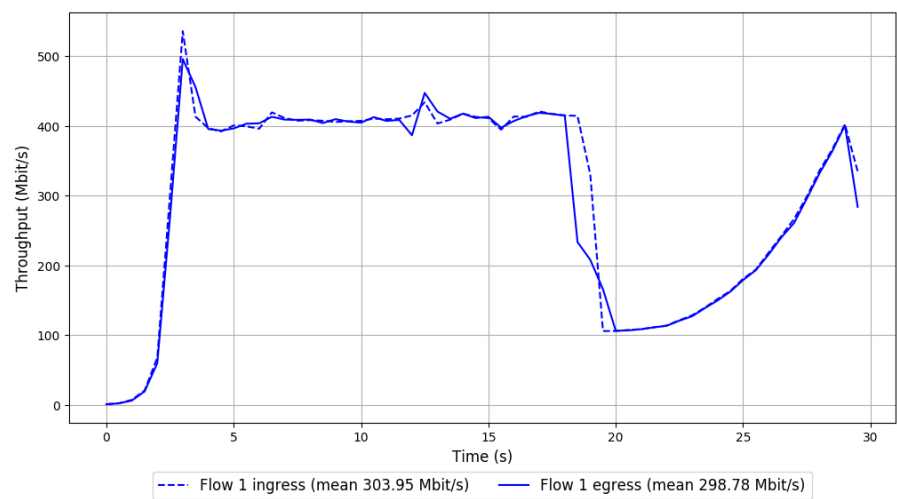
-- Flow 1:

Average throughput: 298.78 Mbit/s

95th percentile per-packet one-way delay: 77.913 ms

Loss rate: 2.03%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-20 01:49:15

End at: 2018-02-20 01:49:45

Below is generated by plot.py at 2018-02-20 07:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.02 Mbit/s

95th percentile per-packet one-way delay: 56.316 ms

Loss rate: 0.38%

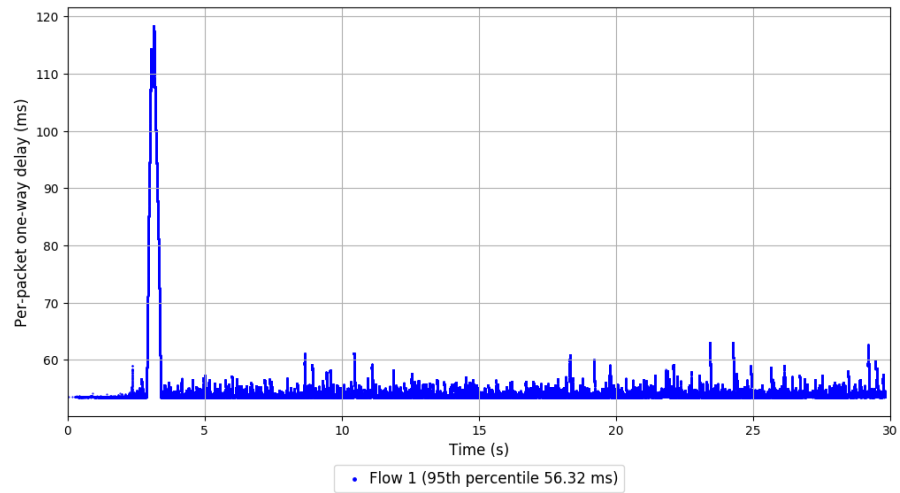
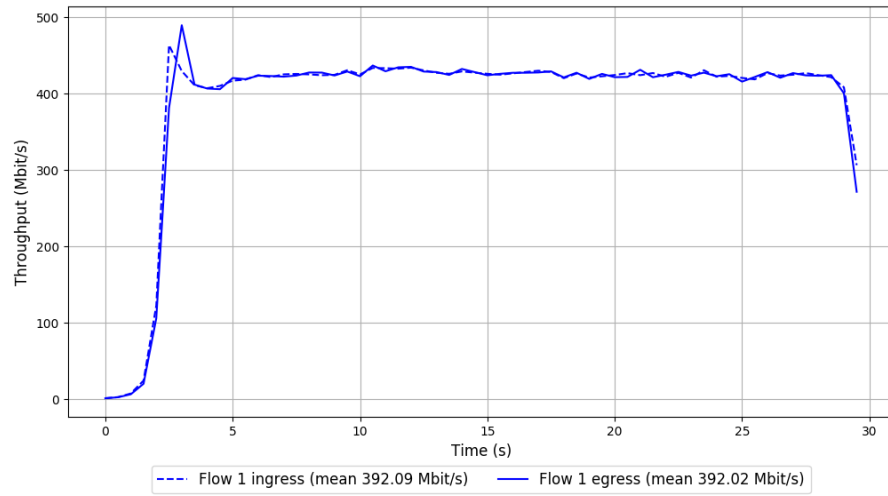
-- Flow 1:

Average throughput: 392.02 Mbit/s

95th percentile per-packet one-way delay: 56.316 ms

Loss rate: 0.38%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-20 02:03:32

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

Below is generated by plot.py at 2018-02-20 07:25:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.33 Mbit/s

95th percentile per-packet one-way delay: 72.121 ms

Loss rate: 0.37%

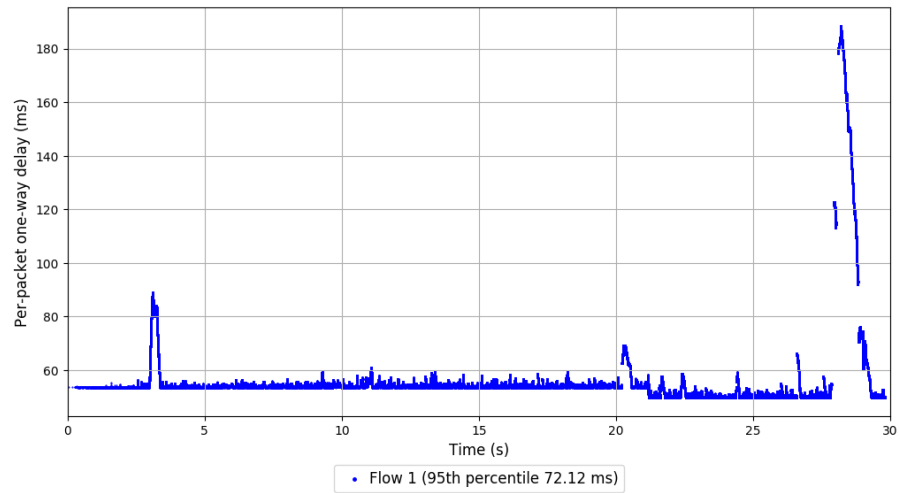
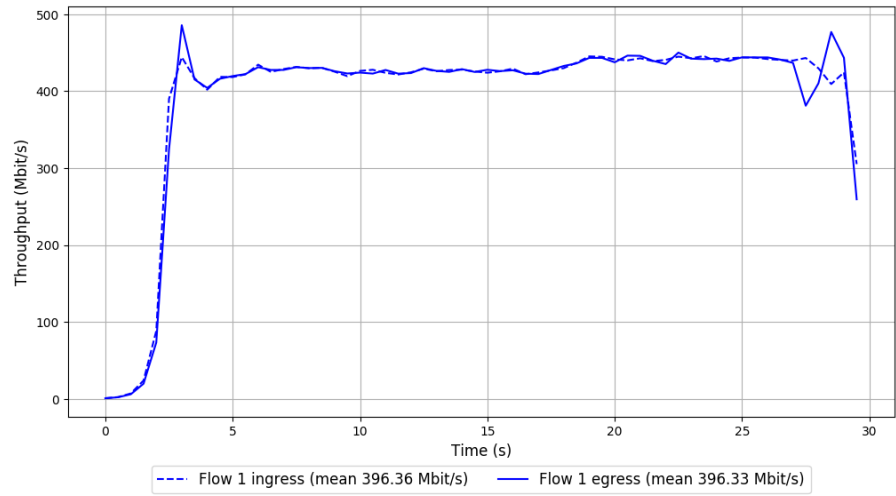
-- Flow 1:

Average throughput: 396.33 Mbit/s

95th percentile per-packet one-way delay: 72.121 ms

Loss rate: 0.37%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-20 02:18:15

End at: 2018-02-20 02:18:45

Below is generated by plot.py at 2018-02-20 07:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.01 Mbit/s

95th percentile per-packet one-way delay: 126.930 ms

Loss rate: 0.55%

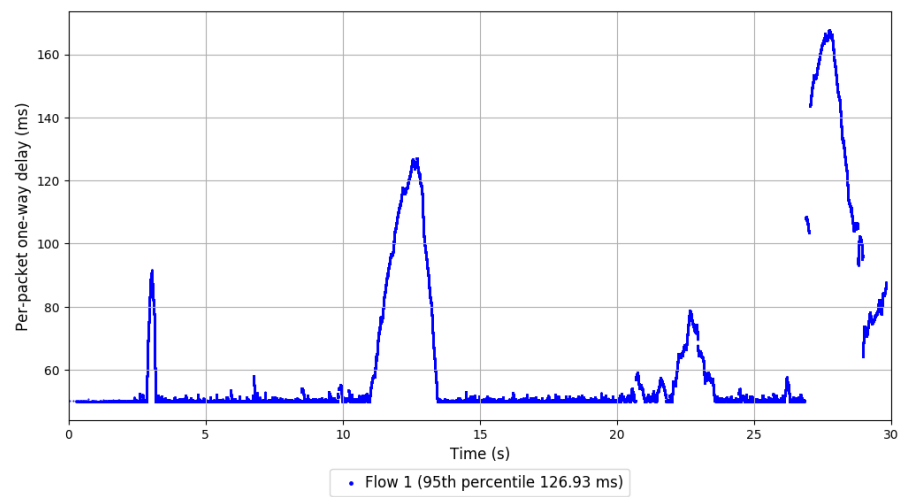
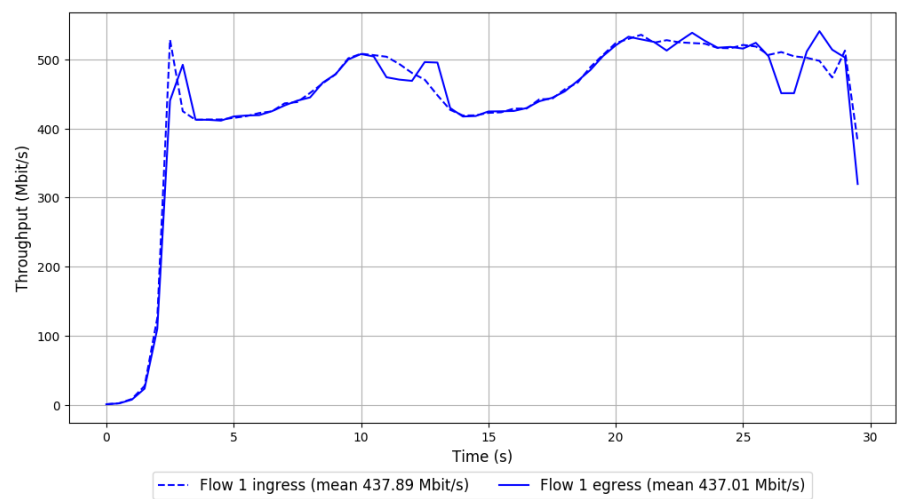
-- Flow 1:

Average throughput: 437.01 Mbit/s

95th percentile per-packet one-way delay: 126.930 ms

Loss rate: 0.55%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-20 02:33:35

End at: 2018-02-20 02:34:05

Below is generated by plot.py at 2018-02-20 07:26:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.33 Mbit/s

95th percentile per-packet one-way delay: 58.108 ms

Loss rate: 0.38%

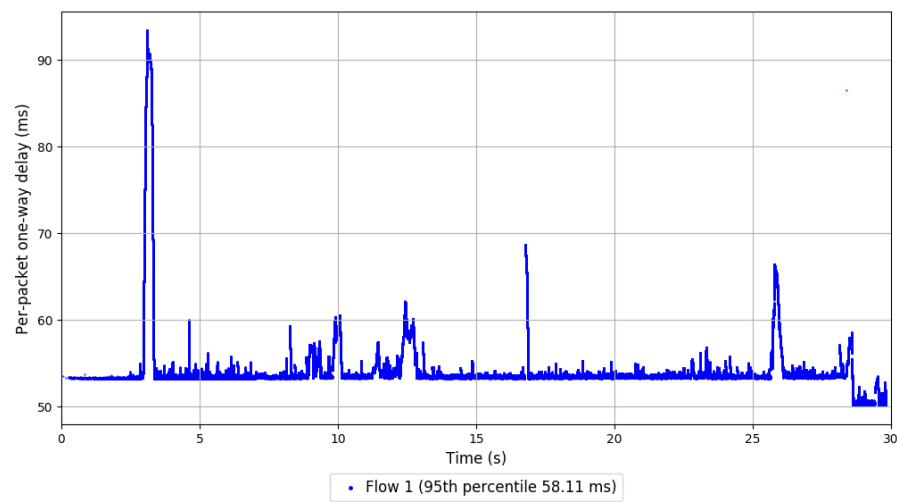
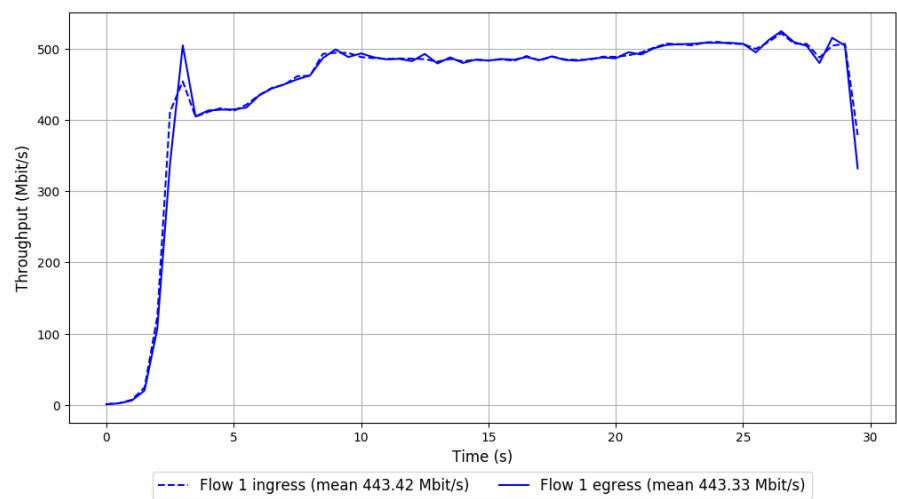
-- Flow 1:

Average throughput: 443.33 Mbit/s

95th percentile per-packet one-way delay: 58.108 ms

Loss rate: 0.38%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-20 02:48:31

End at: 2018-02-20 02:49:01

Below is generated by plot.py at 2018-02-20 07:26:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.37 Mbit/s

95th percentile per-packet one-way delay: 119.234 ms

Loss rate: 0.39%

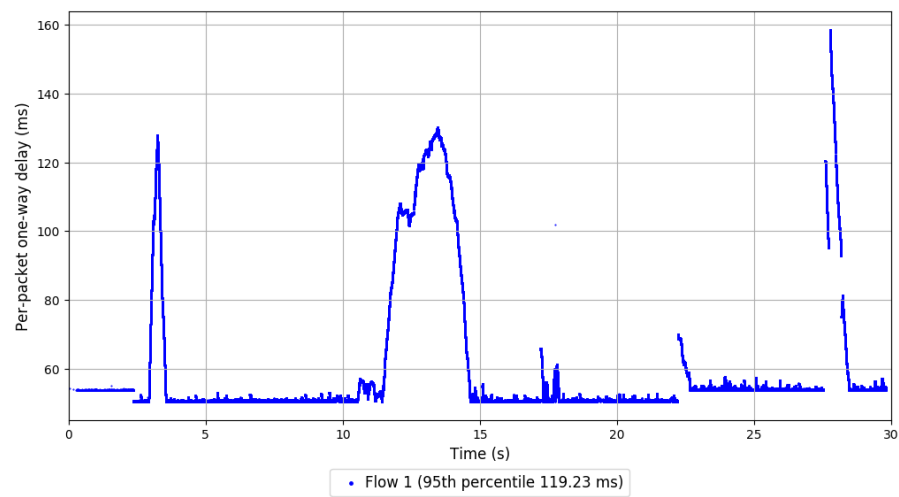
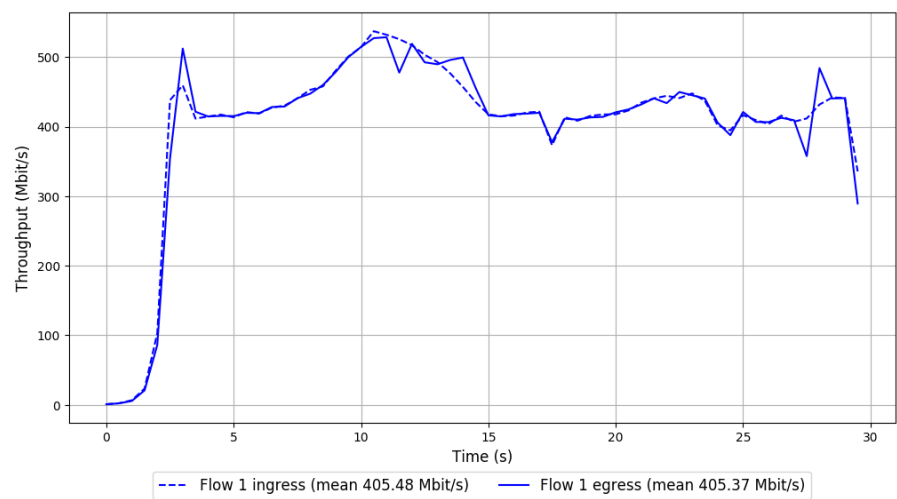
-- Flow 1:

Average throughput: 405.37 Mbit/s

95th percentile per-packet one-way delay: 119.234 ms

Loss rate: 0.39%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

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

End at: 2018-02-20 03:03:50

Below is generated by plot.py at 2018-02-20 07:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.23 Mbit/s

95th percentile per-packet one-way delay: 54.006 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 426.23 Mbit/s

95th percentile per-packet one-way delay: 54.006 ms

Loss rate: 0.39%

Run 10: Report of Vivace-LTE — Data Link

