

Pantheon Report

Generated at 2018-02-20 09:08:44 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE London Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

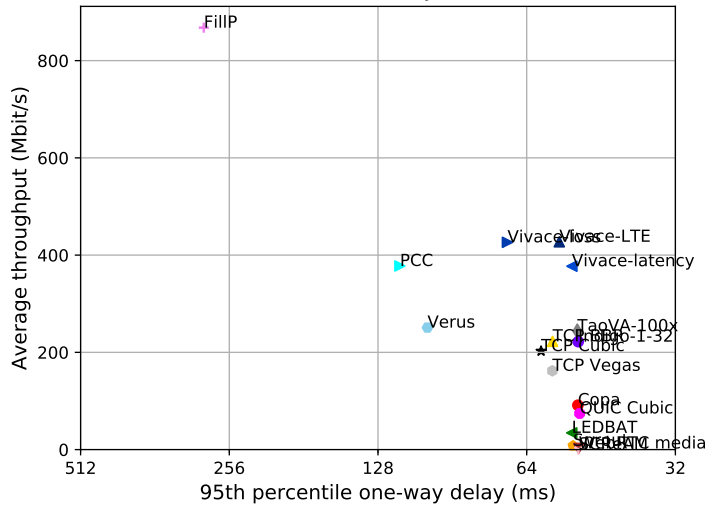
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

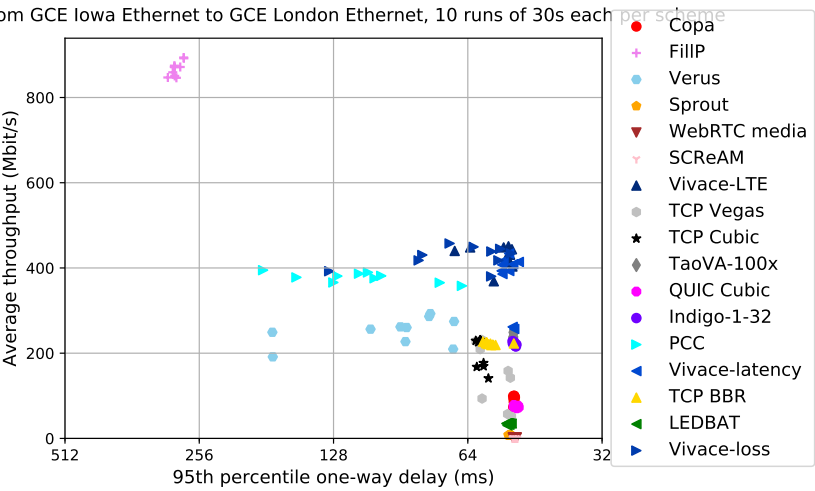
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ceec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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 Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	222.64	56.72	0.00
TCP Cubic	10	202.66	59.85	0.02
LEDBAT	10	34.38	51.89	0.00
PCC	10	377.63	115.55	0.12
QUIC Cubic	10	74.41	49.99	0.00
SCReAM	10	0.22	50.30	0.00
WebRTC media	10	2.34	50.23	0.00
Sprout	10	7.90	51.56	0.00
TaoVA-100x	10	243.47	50.55	0.00
TCP Vegas	10	162.03	56.79	0.00
Verus	10	250.91	101.66	0.26
Copa	10	91.27	50.42	0.00
FillP	10	867.81	288.31	5.65
Indigo-1-32	10	221.94	50.33	0.00
Vivace-latency	10	377.16	51.85	0.00
Vivace-loss	10	426.32	70.01	0.01
Vivace-LTE	10	427.42	54.98	0.00

Run 1: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-02-20 07:36:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.17 Mbit/s

95th percentile per-packet one-way delay: 56.238 ms

Loss rate: 0.00%

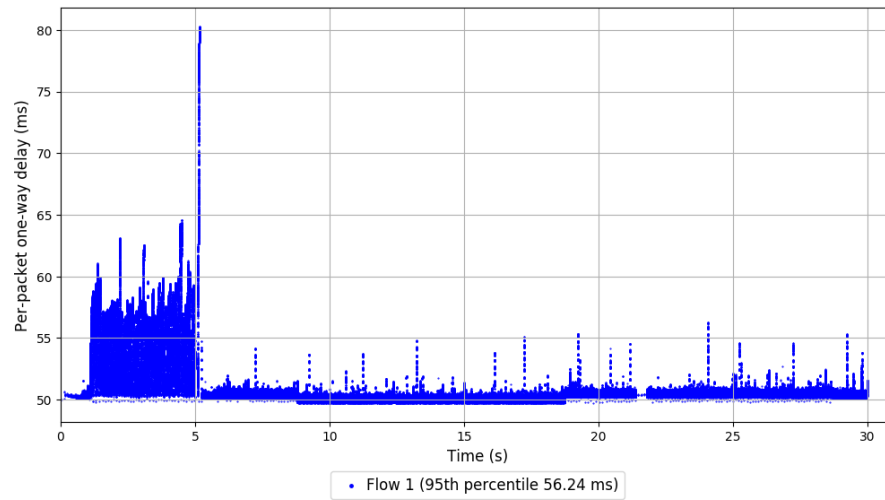
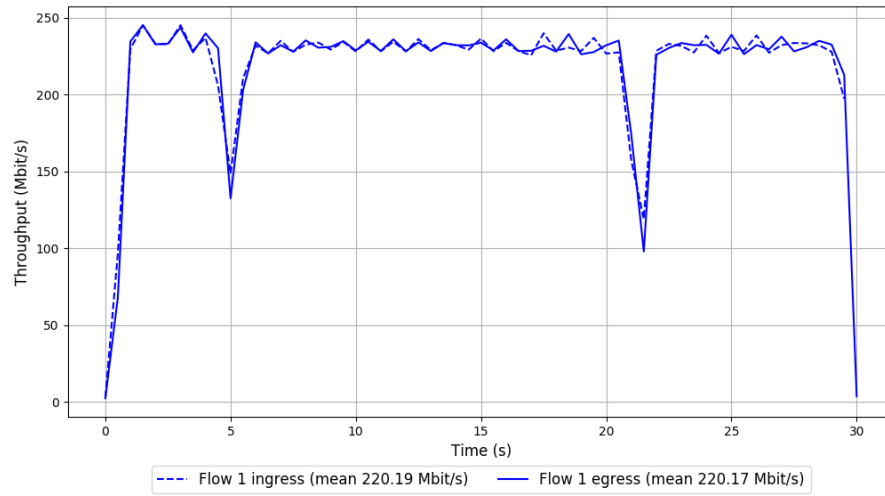
-- Flow 1:

Average throughput: 220.17 Mbit/s

95th percentile per-packet one-way delay: 56.238 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-20 03:35:21

End at: 2018-02-20 03:35:51

Below is generated by plot.py at 2018-02-20 07:36:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.25 Mbit/s

95th percentile per-packet one-way delay: 55.479 ms

Loss rate: 0.00%

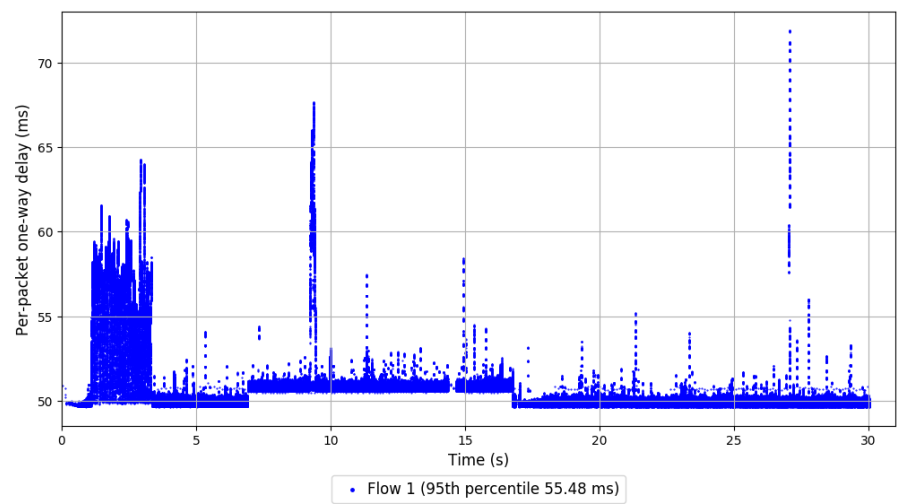
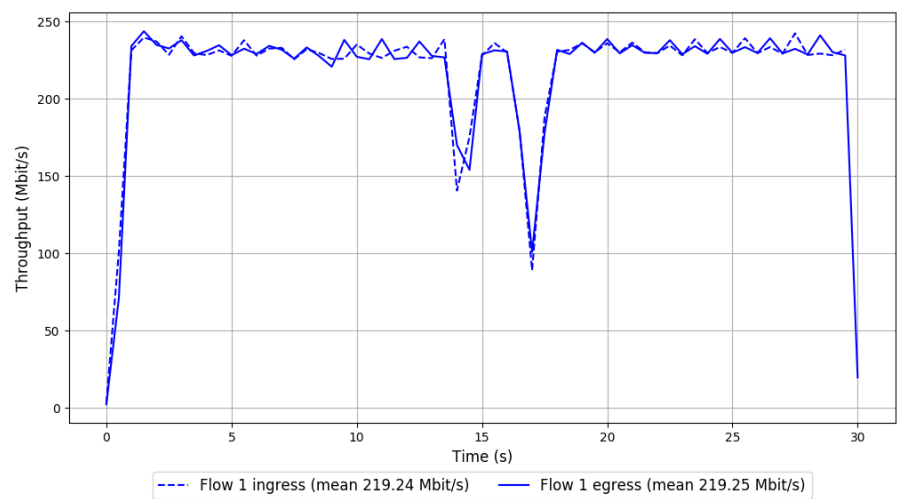
-- Flow 1:

Average throughput: 219.25 Mbit/s

95th percentile per-packet one-way delay: 55.479 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-20 03:50:04

End at: 2018-02-20 03:50:34

Below is generated by plot.py at 2018-02-20 07:36:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.45 Mbit/s

95th percentile per-packet one-way delay: 57.685 ms

Loss rate: 0.00%

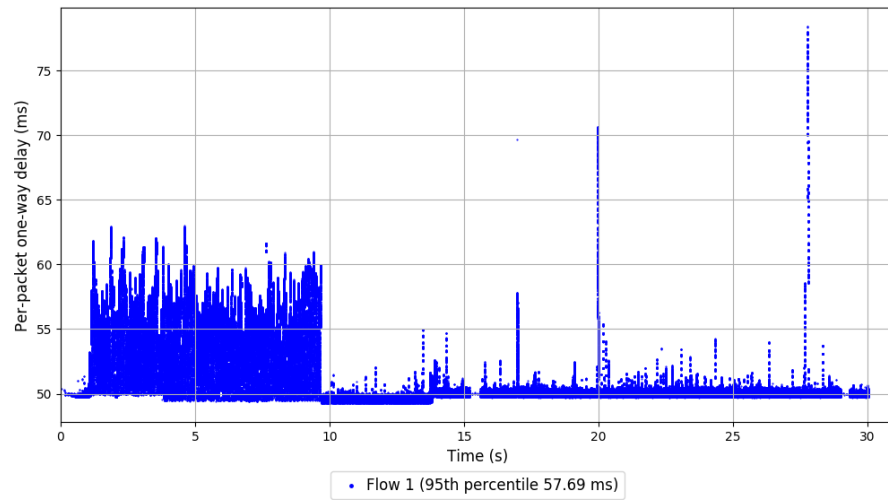
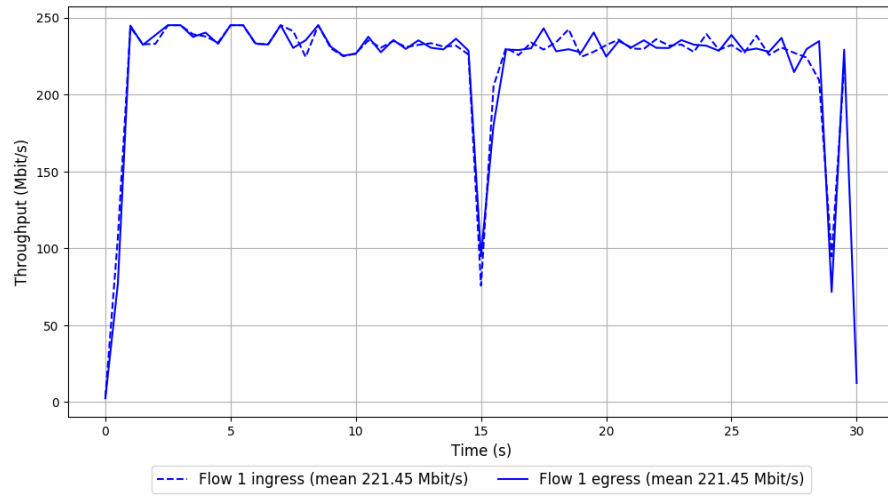
-- Flow 1:

Average throughput: 221.45 Mbit/s

95th percentile per-packet one-way delay: 57.685 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-20 04:04:55

End at: 2018-02-20 04:05:25

Below is generated by plot.py at 2018-02-20 07:36:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.51 Mbit/s

95th percentile per-packet one-way delay: 56.953 ms

Loss rate: 0.00%

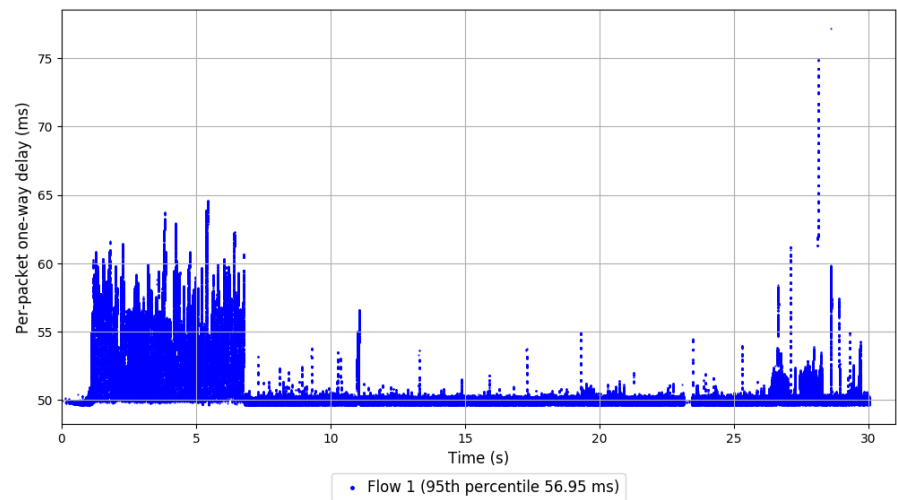
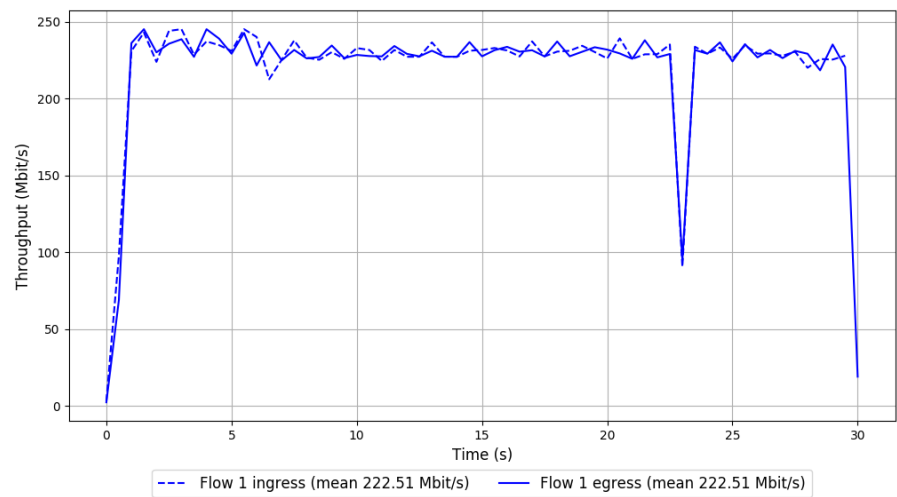
-- Flow 1:

Average throughput: 222.51 Mbit/s

95th percentile per-packet one-way delay: 56.953 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-20 04:19:58

End at: 2018-02-20 04:20:28

Below is generated by plot.py at 2018-02-20 07:36:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.85 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.00%

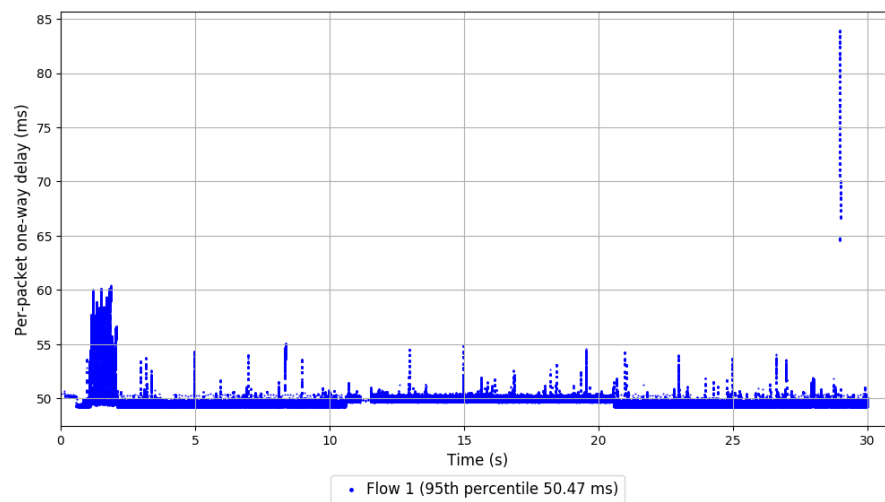
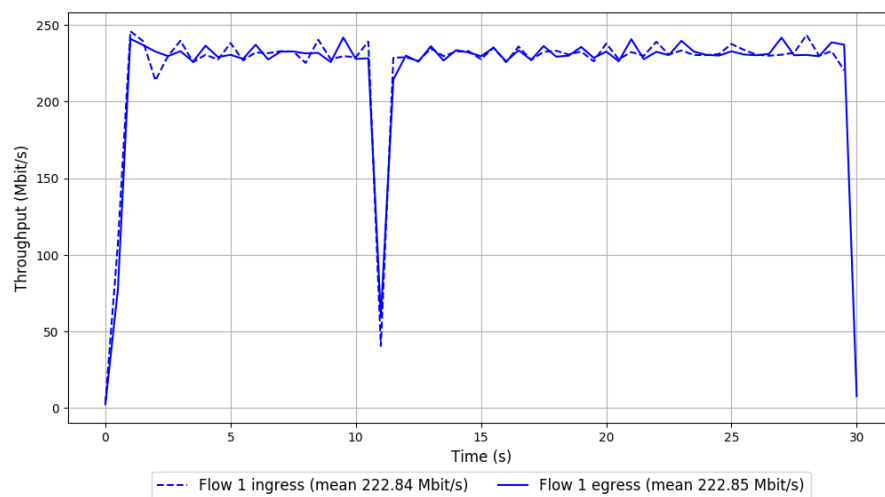
-- Flow 1:

Average throughput: 222.85 Mbit/s

95th percentile per-packet one-way delay: 50.469 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-02-20 07:36:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.94 Mbit/s

95th percentile per-packet one-way delay: 56.680 ms

Loss rate: 0.00%

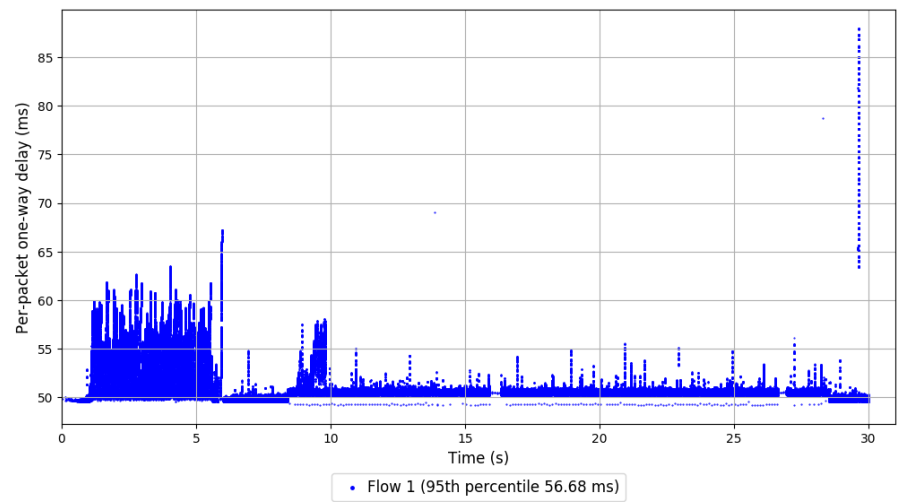
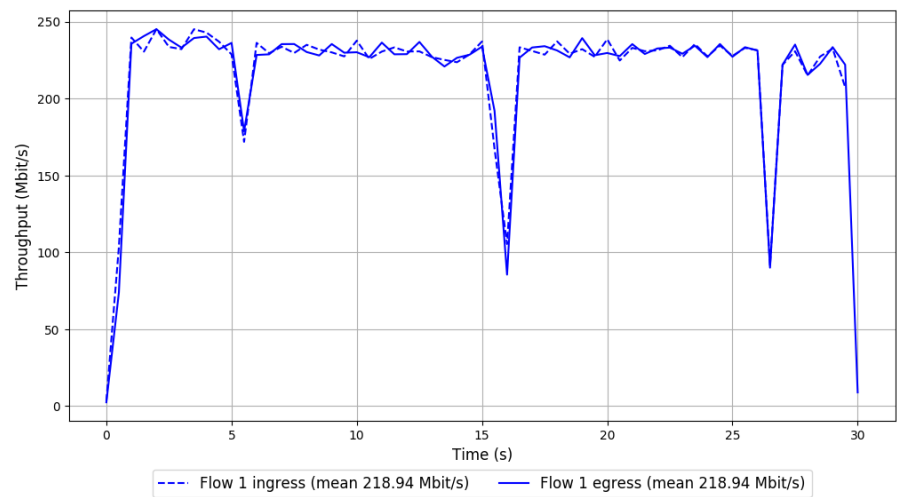
-- Flow 1:

Average throughput: 218.94 Mbit/s

95th percentile per-packet one-way delay: 56.680 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-20 04:49:38

End at: 2018-02-20 04:50:08

Below is generated by plot.py at 2018-02-20 07:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.64 Mbit/s

95th percentile per-packet one-way delay: 58.047 ms

Loss rate: 0.00%

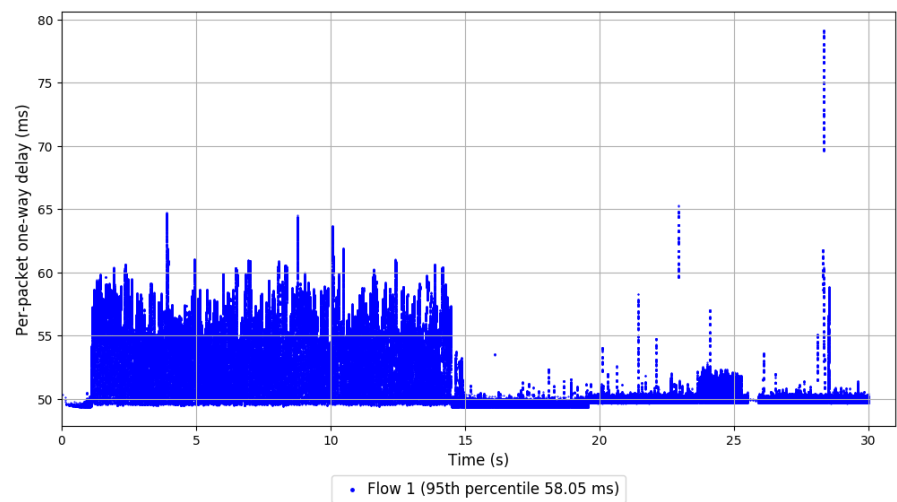
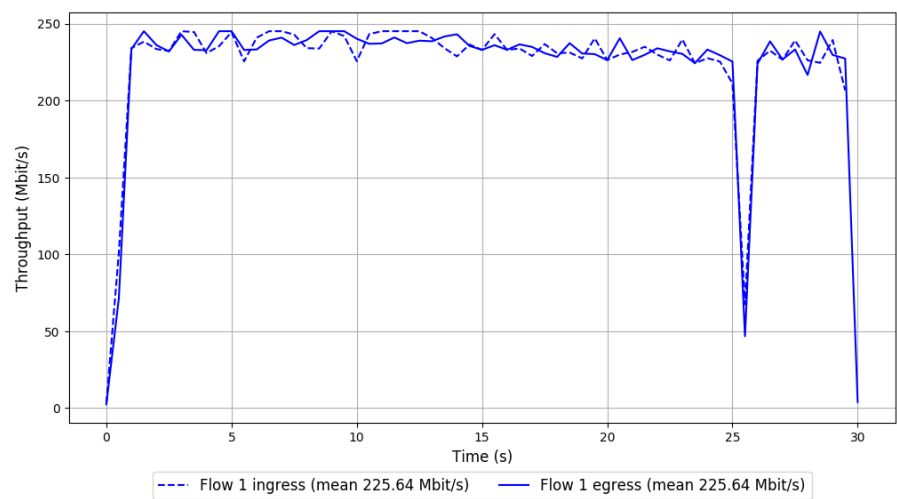
-- Flow 1:

Average throughput: 225.64 Mbit/s

95th percentile per-packet one-way delay: 58.047 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-20 05:04:36

End at: 2018-02-20 05:05:07

Below is generated by plot.py at 2018-02-20 07:36:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.03 Mbit/s

95th percentile per-packet one-way delay: 59.157 ms

Loss rate: 0.00%

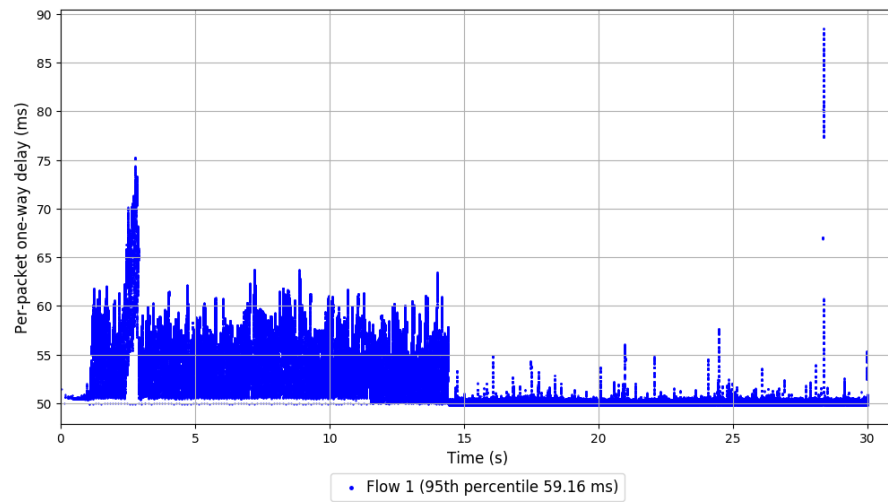
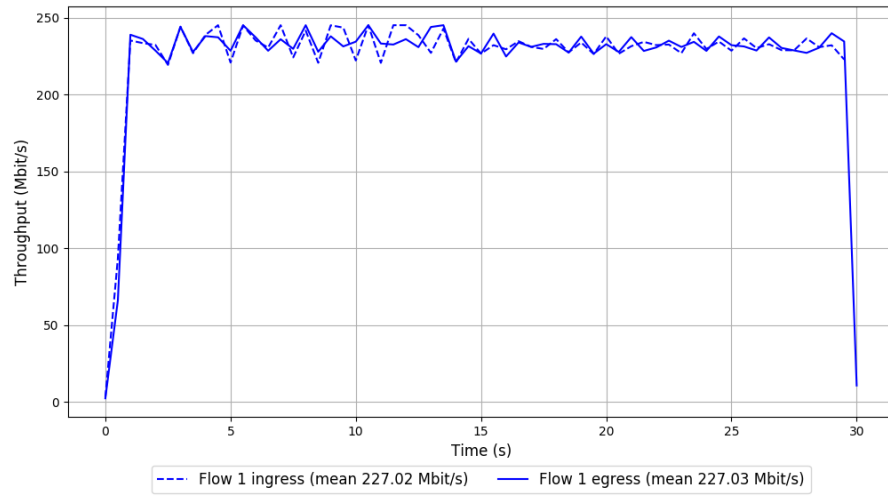
-- Flow 1:

Average throughput: 227.03 Mbit/s

95th percentile per-packet one-way delay: 59.157 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-20 05:19:32

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

Below is generated by plot.py at 2018-02-20 07:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.26 Mbit/s

95th percentile per-packet one-way delay: 58.268 ms

Loss rate: 0.01%

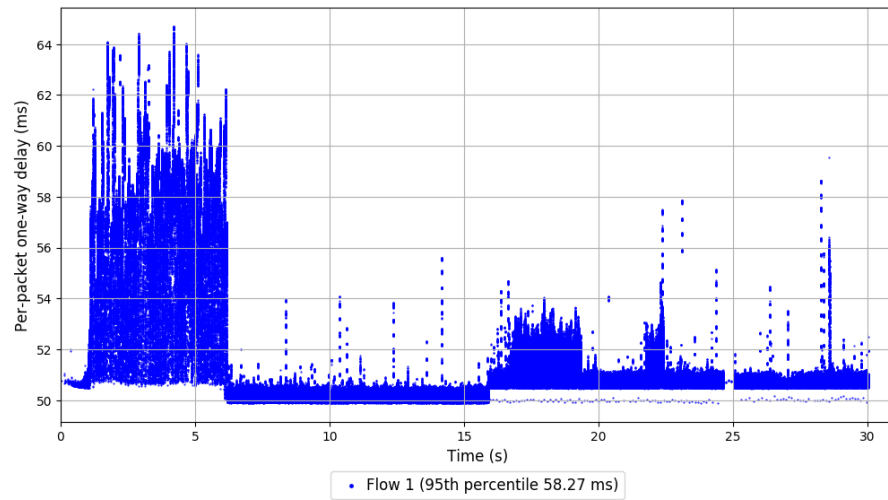
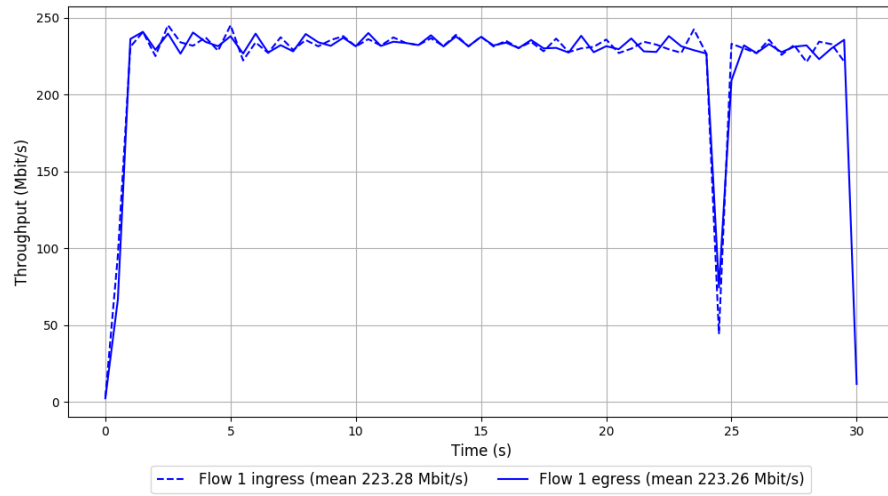
-- Flow 1:

Average throughput: 223.26 Mbit/s

95th percentile per-packet one-way delay: 58.268 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-20 05:34:31

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

Below is generated by plot.py at 2018-02-20 07:40:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.33 Mbit/s

95th percentile per-packet one-way delay: 58.192 ms

Loss rate: 0.00%

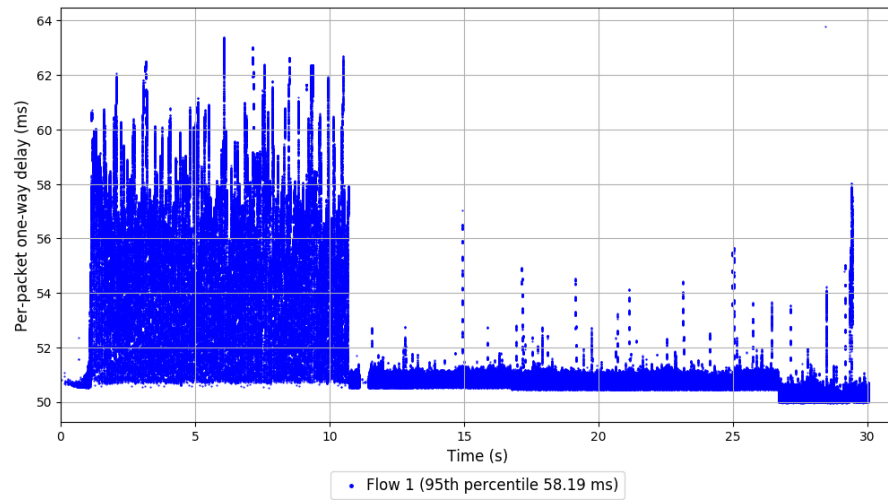
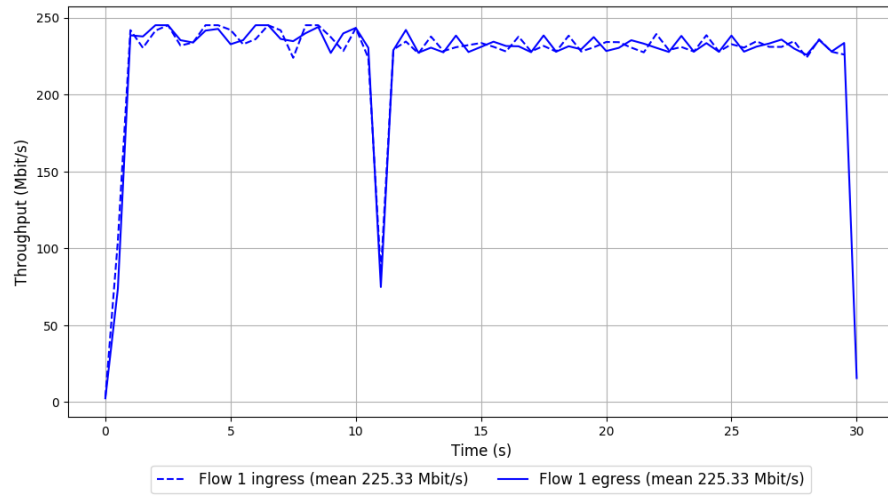
-- Flow 1:

Average throughput: 225.33 Mbit/s

95th percentile per-packet one-way delay: 58.192 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-20 03:28:54

End at: 2018-02-20 03:29:24

Below is generated by plot.py at 2018-02-20 07:40:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.09 Mbit/s

95th percentile per-packet one-way delay: 61.436 ms

Loss rate: 0.00%

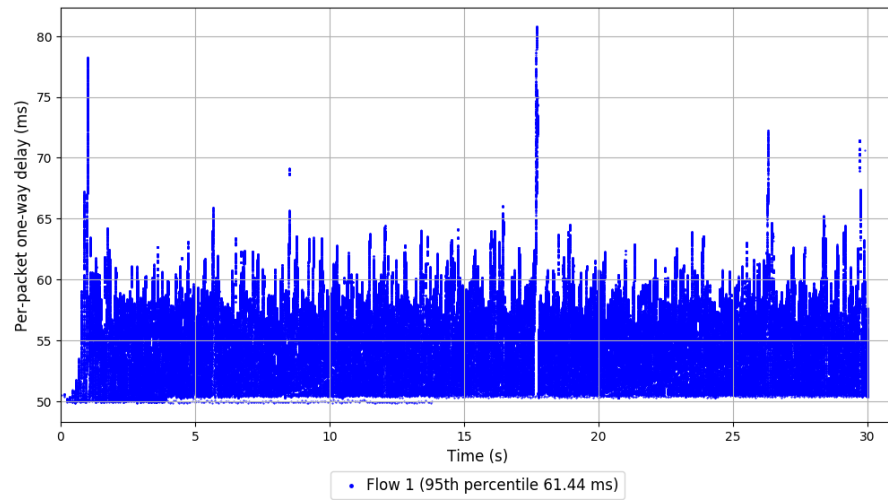
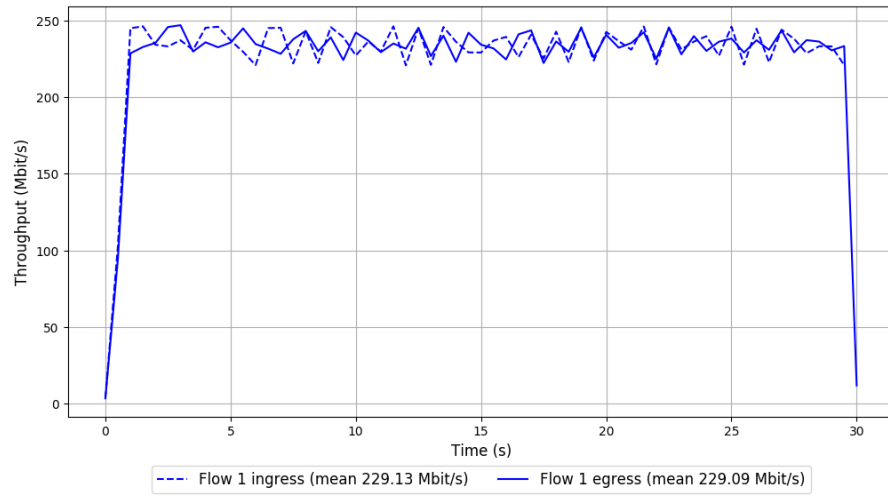
-- Flow 1:

Average throughput: 229.09 Mbit/s

95th percentile per-packet one-way delay: 61.436 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-20 03:43:33

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

Below is generated by plot.py at 2018-02-20 07:40:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.96 Mbit/s

95th percentile per-packet one-way delay: 60.611 ms

Loss rate: 0.00%

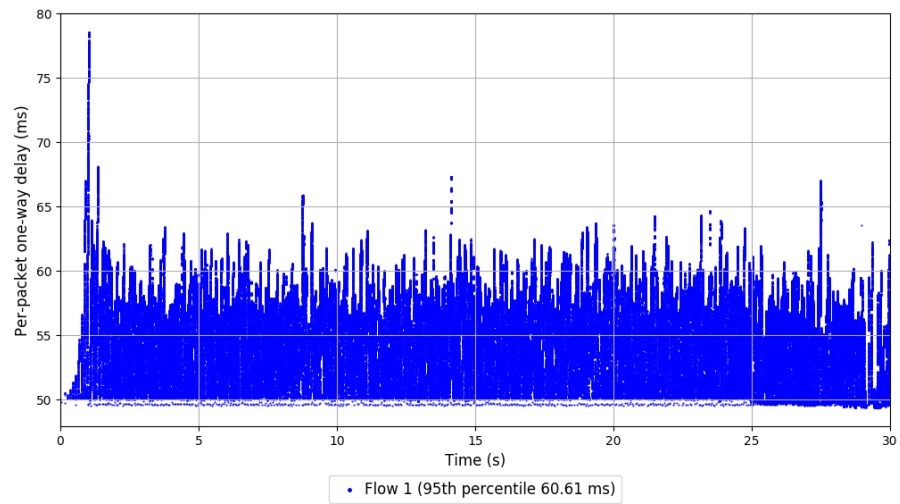
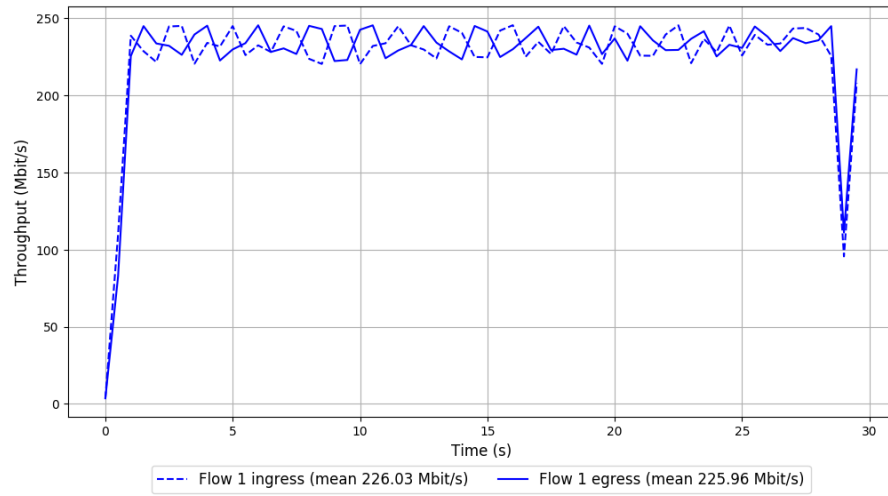
-- Flow 1:

Average throughput: 225.96 Mbit/s

95th percentile per-packet one-way delay: 60.611 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-20 03:58:24

End at: 2018-02-20 03:58:54

Below is generated by plot.py at 2018-02-20 07:40:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.81 Mbit/s

95th percentile per-packet one-way delay: 60.072 ms

Loss rate: 0.05%

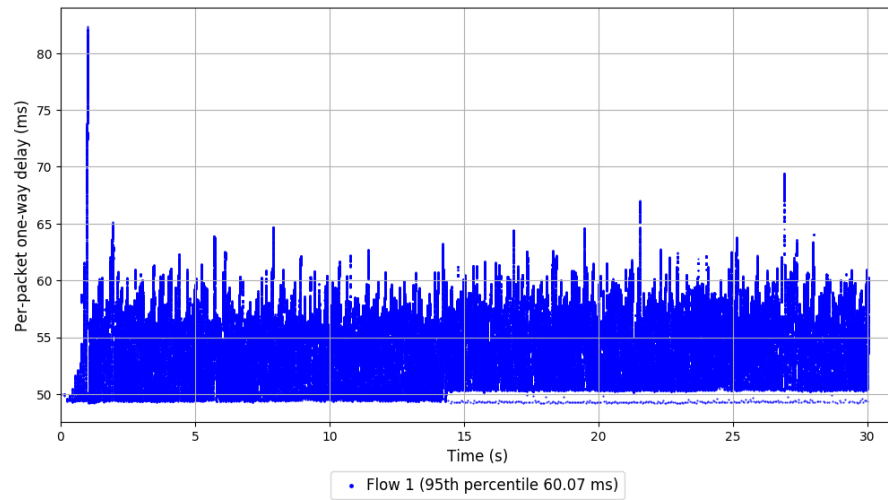
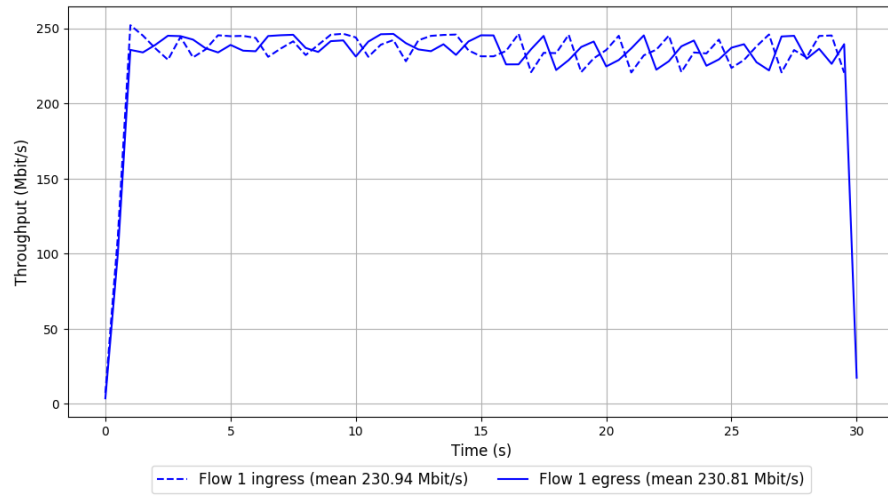
-- Flow 1:

Average throughput: 230.81 Mbit/s

95th percentile per-packet one-way delay: 60.072 ms

Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-20 04:13:27

End at: 2018-02-20 04:13:57

Below is generated by plot.py at 2018-02-20 07:40:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.87 Mbit/s

95th percentile per-packet one-way delay: 59.728 ms

Loss rate: 0.00%

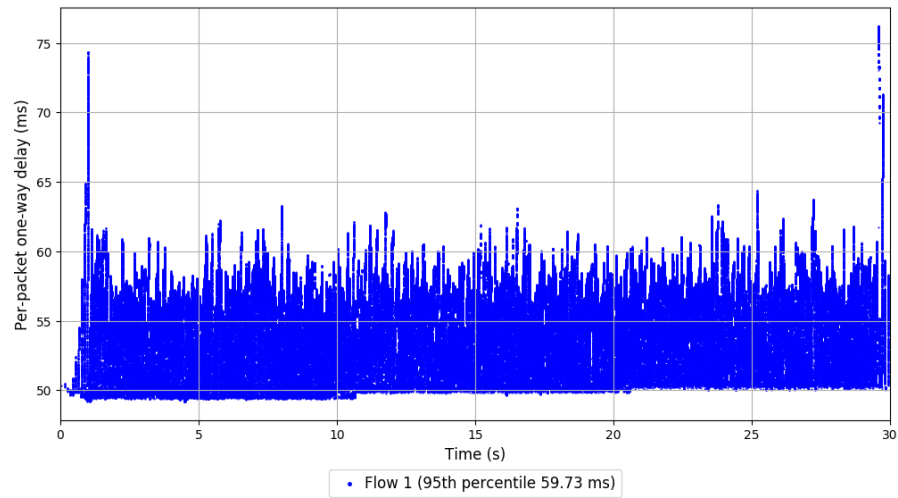
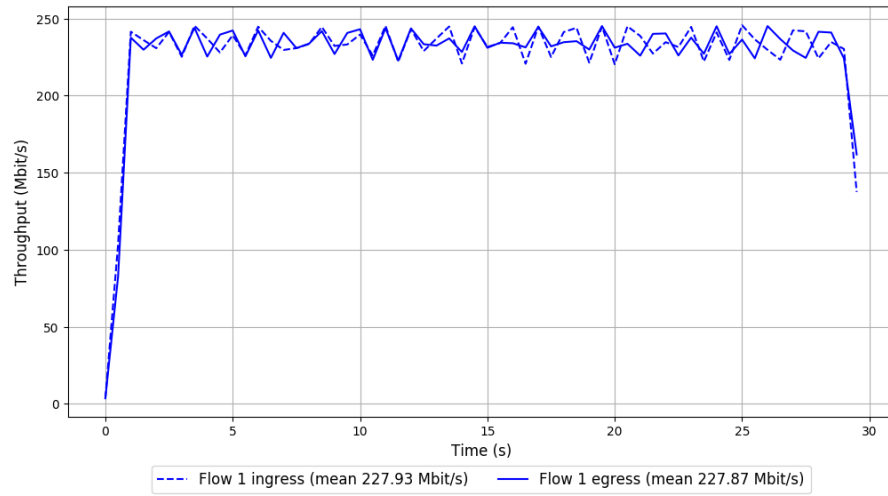
-- Flow 1:

Average throughput: 227.87 Mbit/s

95th percentile per-packet one-way delay: 59.728 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-20 04:28:25

End at: 2018-02-20 04:28:55

Below is generated by plot.py at 2018-02-20 07:40:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.94 Mbit/s

95th percentile per-packet one-way delay: 57.541 ms

Loss rate: 0.01%

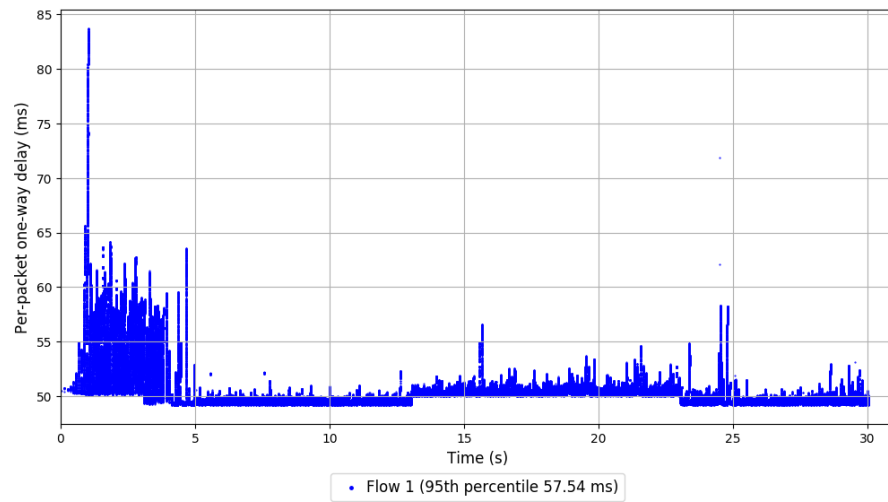
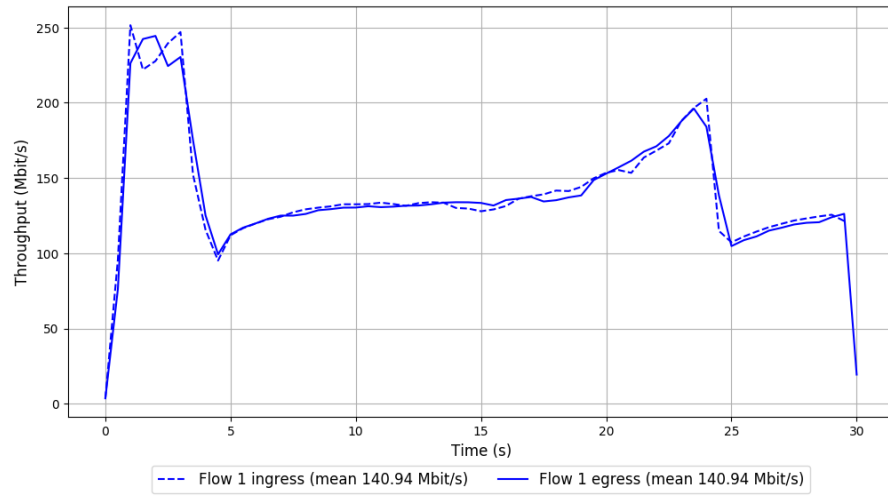
-- Flow 1:

Average throughput: 140.94 Mbit/s

95th percentile per-packet one-way delay: 57.541 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-20 04:43:12

End at: 2018-02-20 04:43:42

Below is generated by plot.py at 2018-02-20 07:40:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.43 Mbit/s

95th percentile per-packet one-way delay: 59.006 ms

Loss rate: 0.05%

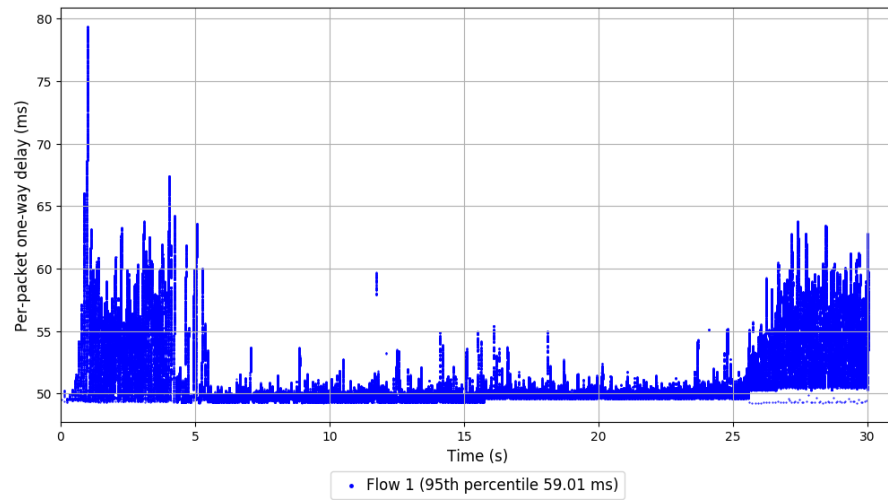
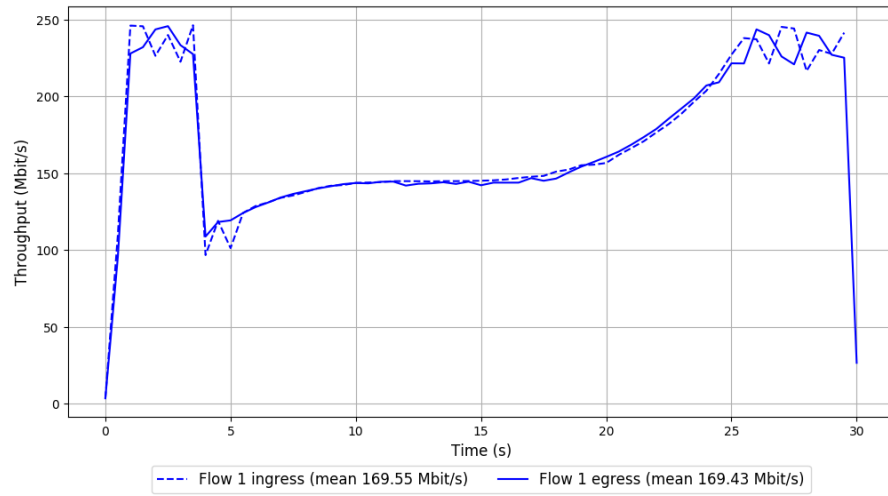
-- Flow 1:

Average throughput: 169.43 Mbit/s

95th percentile per-packet one-way delay: 59.006 ms

Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-20 04:58:07

End at: 2018-02-20 04:58:37

Below is generated by plot.py at 2018-02-20 07:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.74 Mbit/s

95th percentile per-packet one-way delay: 60.207 ms

Loss rate: 0.04%

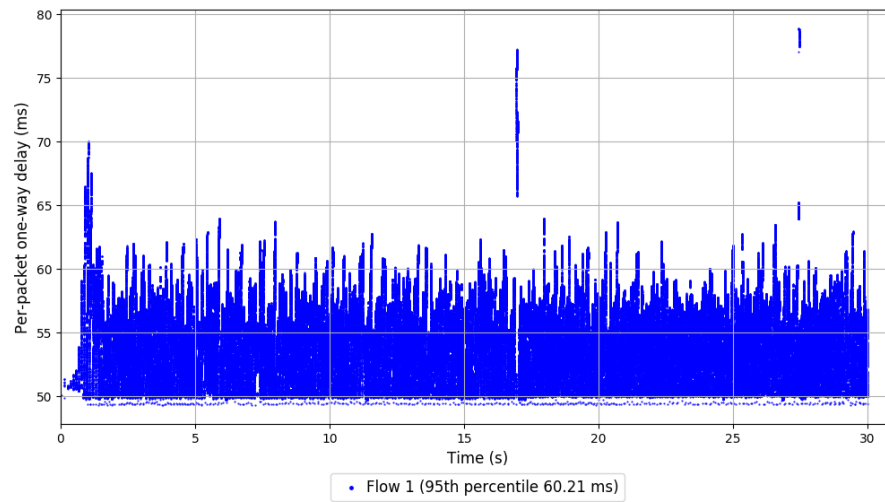
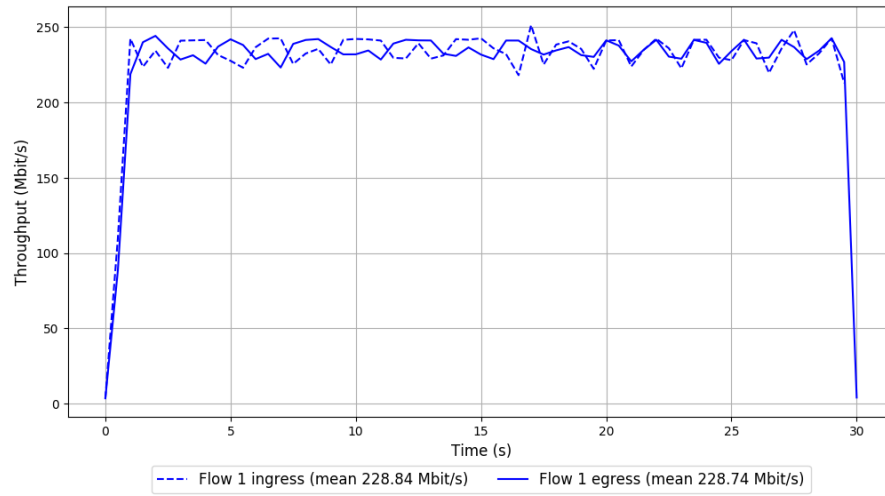
-- Flow 1:

Average throughput: 228.74 Mbit/s

95th percentile per-packet one-way delay: 60.207 ms

Loss rate: 0.04%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-20 05:13:08

End at: 2018-02-20 05:13:38

Below is generated by plot.py at 2018-02-20 07:43:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.97 Mbit/s

95th percentile per-packet one-way delay: 59.008 ms

Loss rate: 0.00%

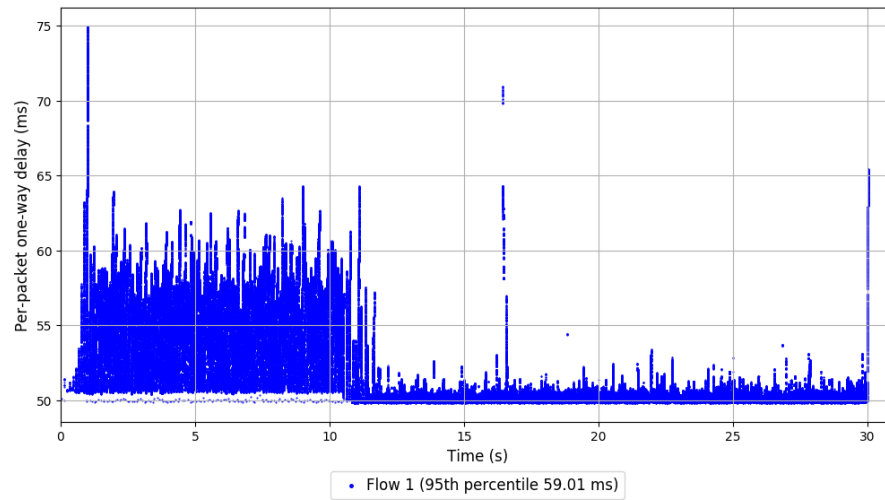
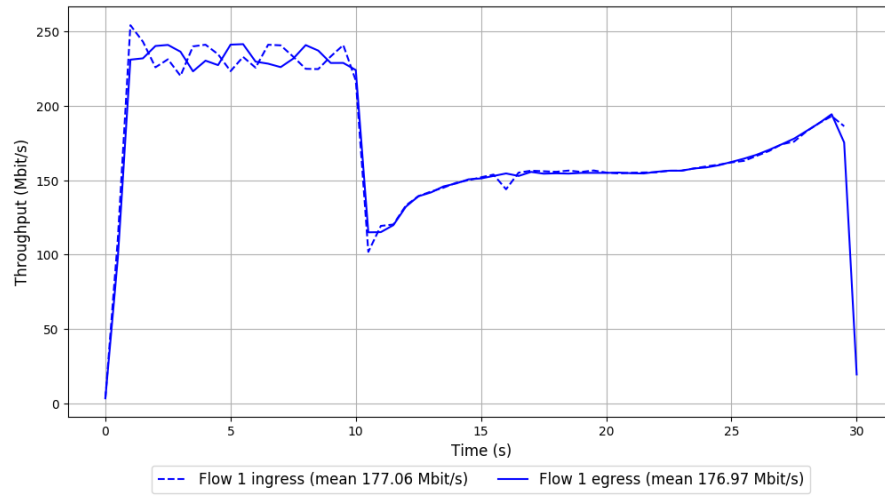
-- Flow 1:

Average throughput: 176.97 Mbit/s

95th percentile per-packet one-way delay: 59.008 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-20 05:27:59

End at: 2018-02-20 05:28:29

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.95 Mbit/s

95th percentile per-packet one-way delay: 59.804 ms

Loss rate: 0.00%

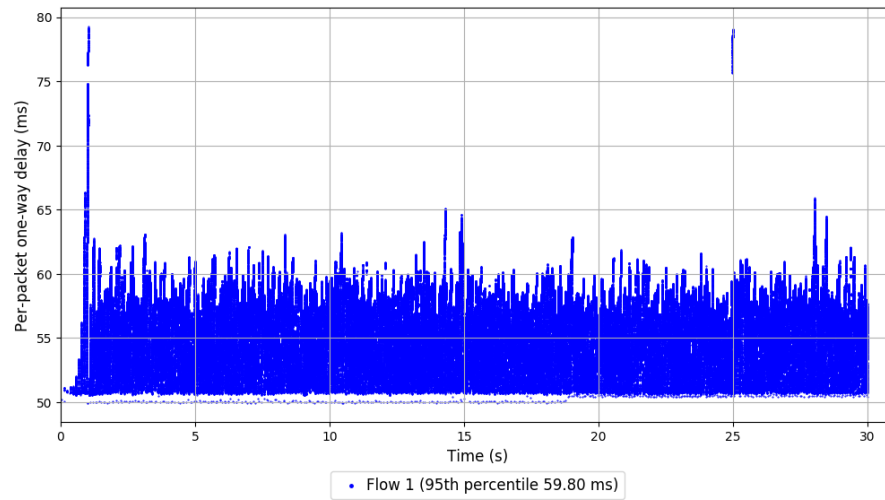
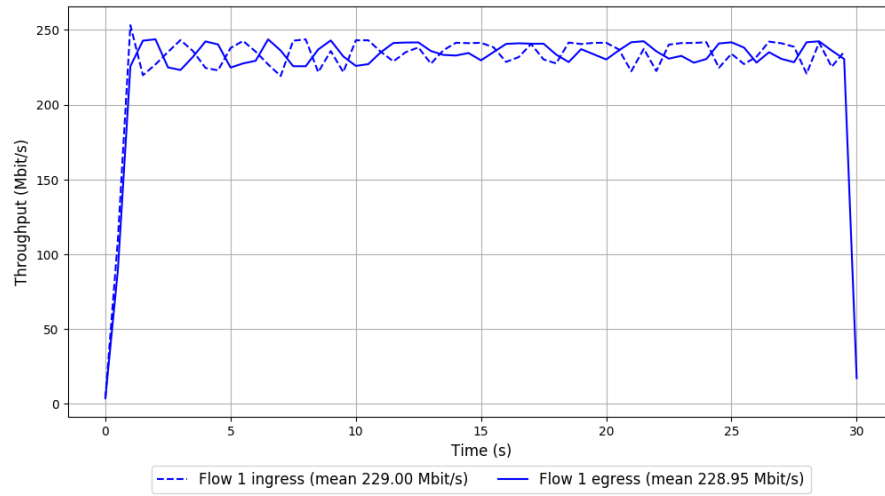
-- Flow 1:

Average throughput: 228.95 Mbit/s

95th percentile per-packet one-way delay: 59.804 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-20 05:42:51

End at: 2018-02-20 05:43:21

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.80 Mbit/s

95th percentile per-packet one-way delay: 61.106 ms

Loss rate: 0.00%

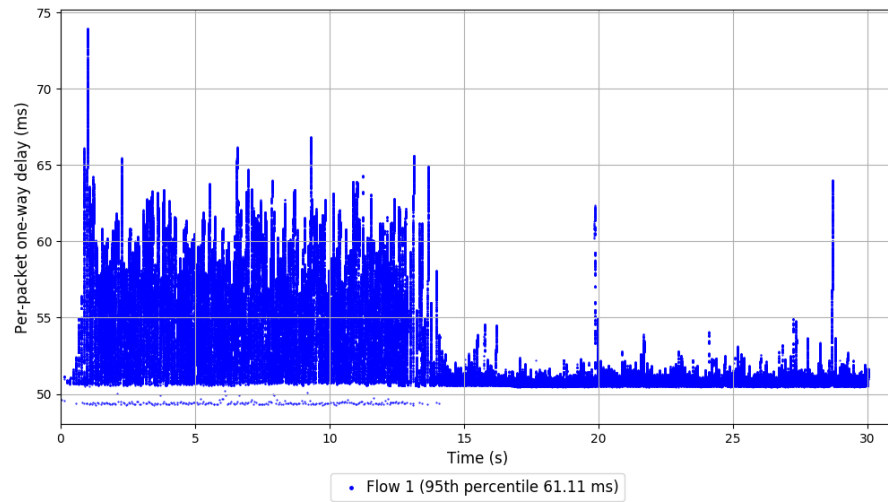
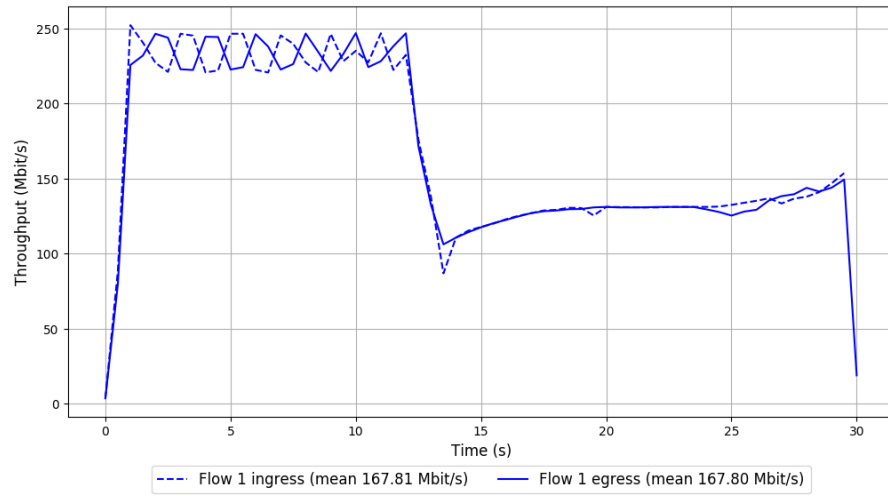
-- Flow 1:

Average throughput: 167.80 Mbit/s

95th percentile per-packet one-way delay: 61.106 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

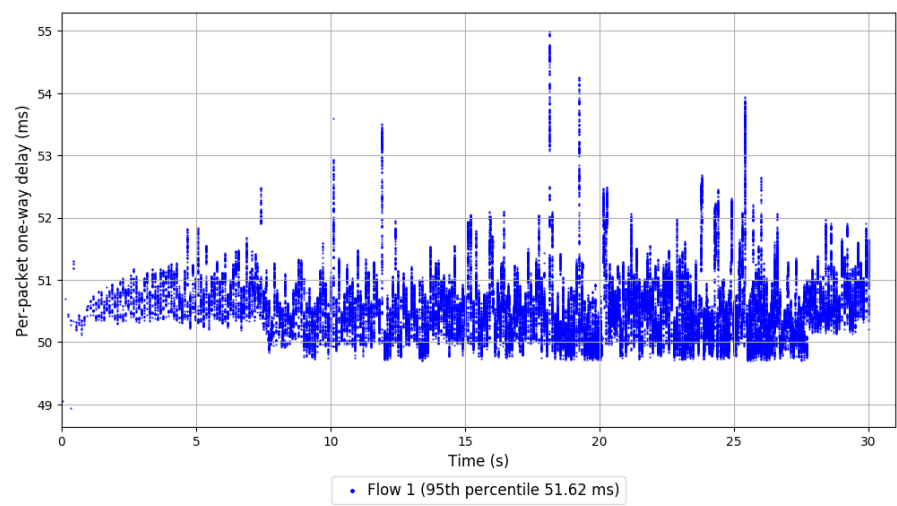
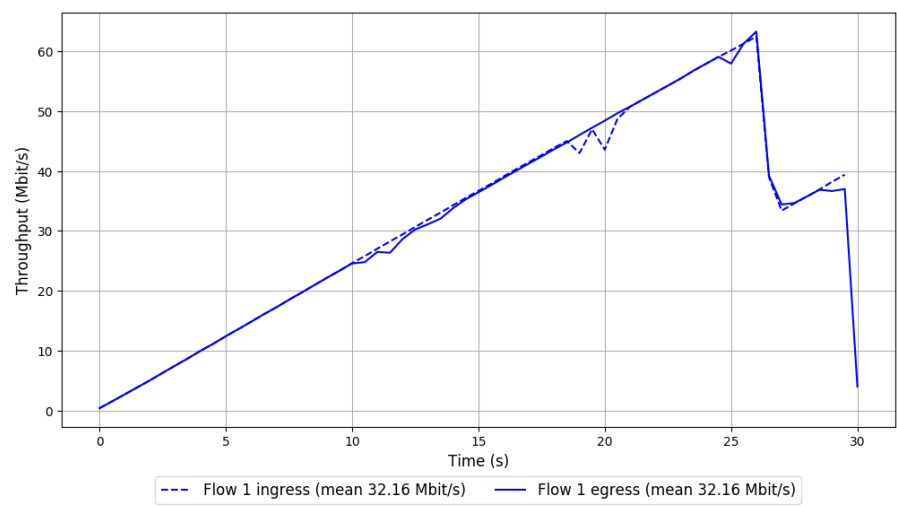


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-20 03:19:50
End at: 2018-02-20 03:20:20

# Below is generated by plot.py at 2018-02-20 07:44:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 51.625 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 51.625 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

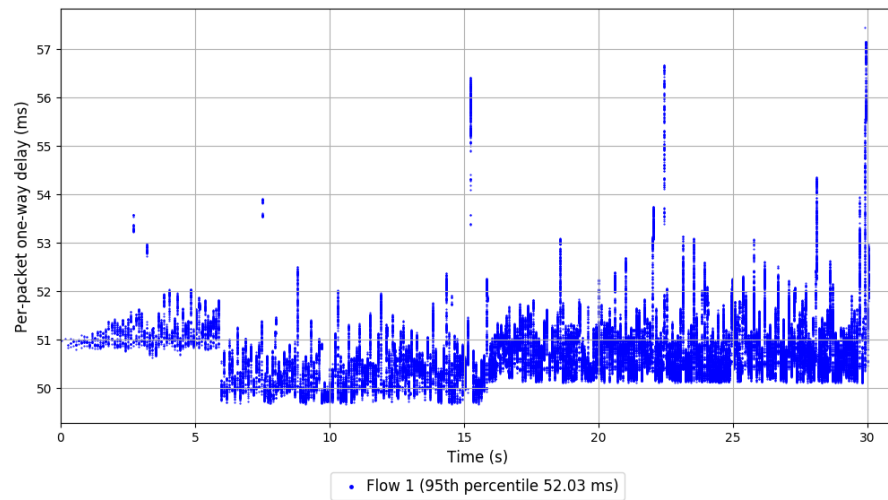
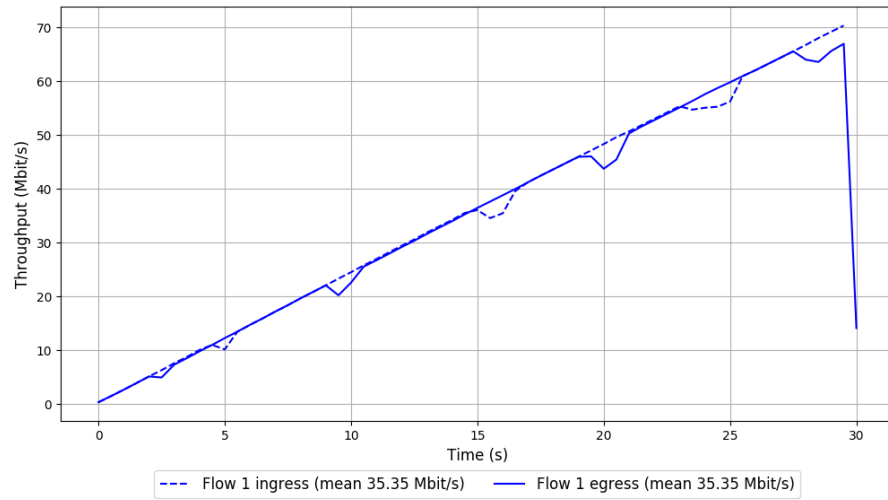


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-20 03:34:42
End at: 2018-02-20 03:35:12

# Below is generated by plot.py at 2018-02-20 07:44:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.35 Mbit/s
95th percentile per-packet one-way delay: 52.032 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 35.35 Mbit/s
95th percentile per-packet one-way delay: 52.032 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-20 03:49:25

End at: 2018-02-20 03:49:55

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.12 Mbit/s

95th percentile per-packet one-way delay: 51.744 ms

Loss rate: 0.00%

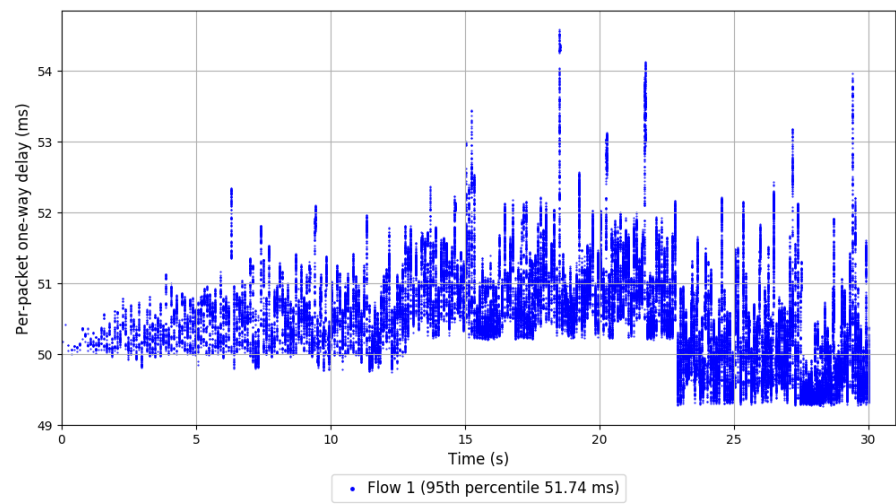
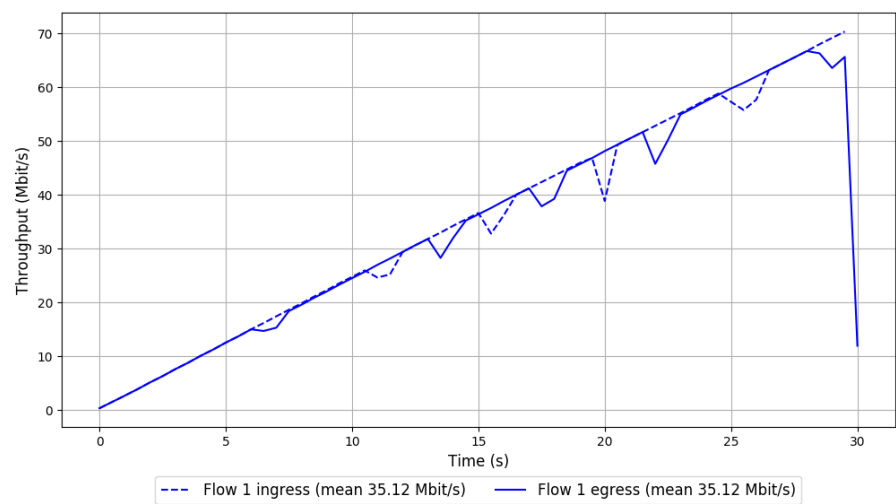
-- Flow 1:

Average throughput: 35.12 Mbit/s

95th percentile per-packet one-way delay: 51.744 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-20 04:04:16

End at: 2018-02-20 04:04:46

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 51.057 ms

Loss rate: 0.00%

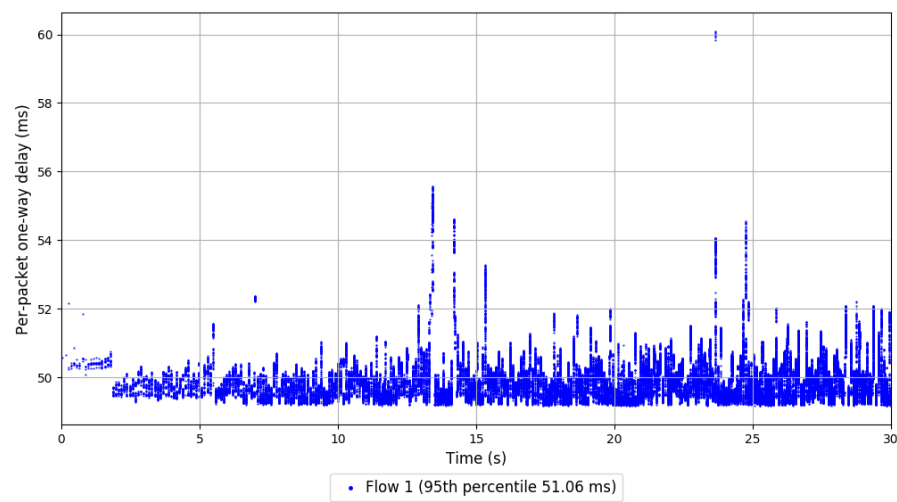
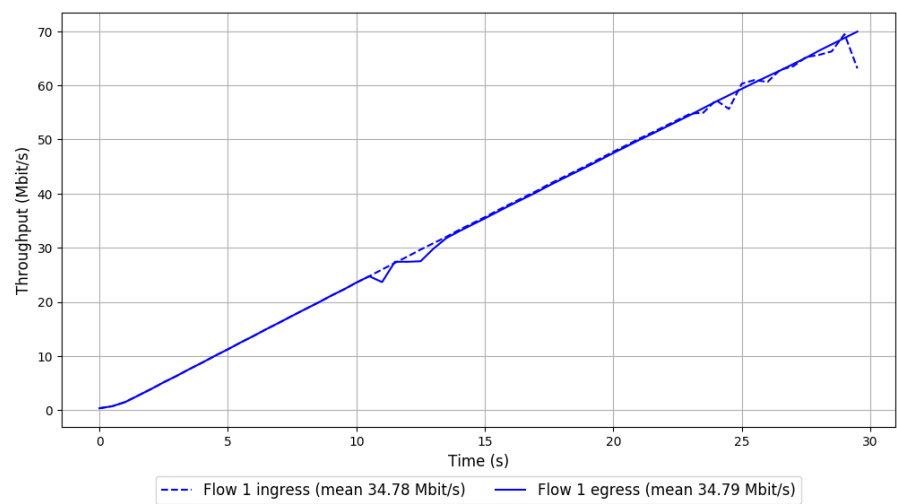
-- Flow 1:

Average throughput: 34.79 Mbit/s

95th percentile per-packet one-way delay: 51.057 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-20 04:19:19

End at: 2018-02-20 04:19:49

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 51.944 ms

Loss rate: 0.00%

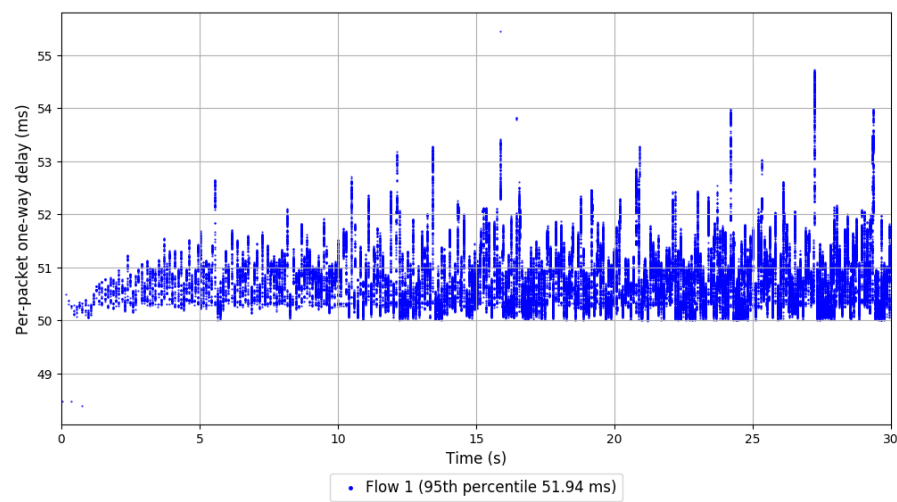
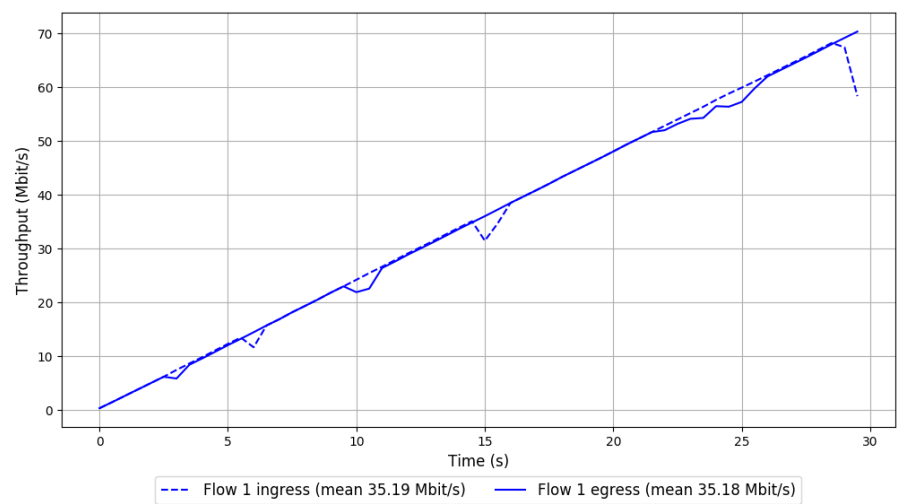
-- Flow 1:

Average throughput: 35.18 Mbit/s

95th percentile per-packet one-way delay: 51.944 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

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

End at: 2018-02-20 04:34:41

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.33 Mbit/s

95th percentile per-packet one-way delay: 51.559 ms

Loss rate: 0.00%

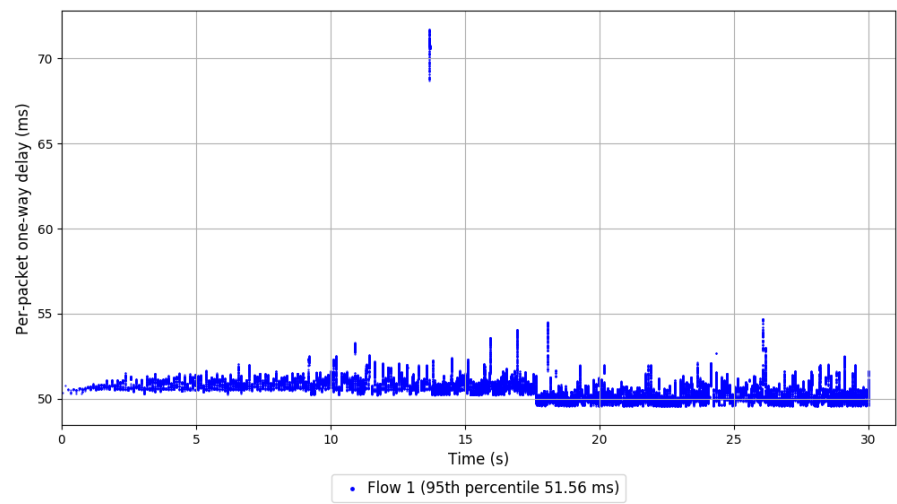
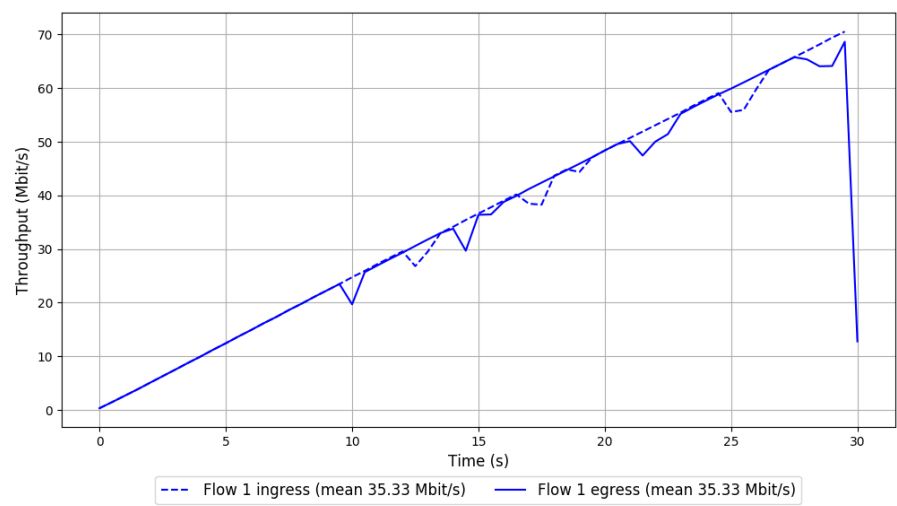
-- Flow 1:

Average throughput: 35.33 Mbit/s

95th percentile per-packet one-way delay: 51.559 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-20 04:48:59

End at: 2018-02-20 04:49:29

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.37 Mbit/s

95th percentile per-packet one-way delay: 52.082 ms

Loss rate: 0.00%

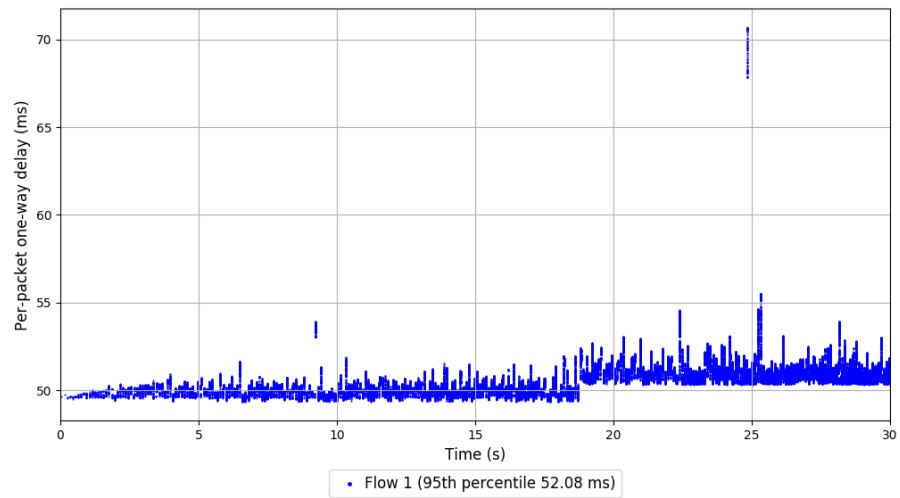
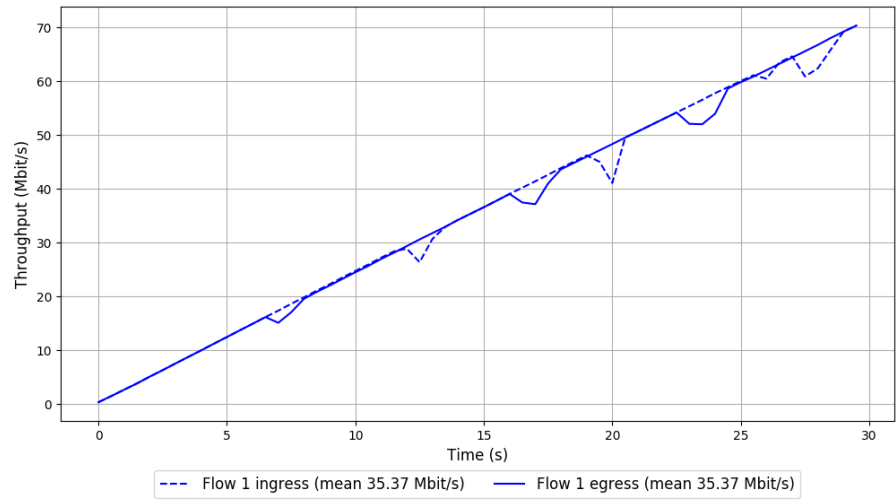
-- Flow 1:

Average throughput: 35.37 Mbit/s

95th percentile per-packet one-way delay: 52.082 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-20 05:03:57

End at: 2018-02-20 05:04:27

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 52.462 ms

Loss rate: 0.03%

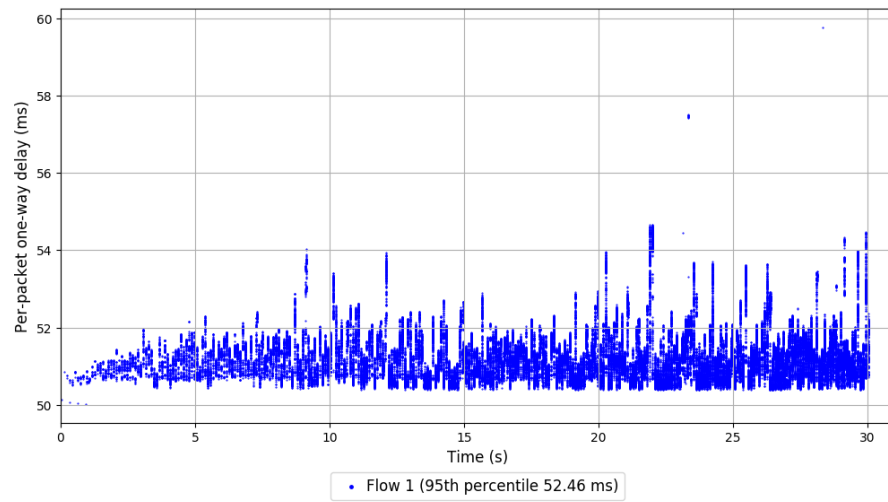
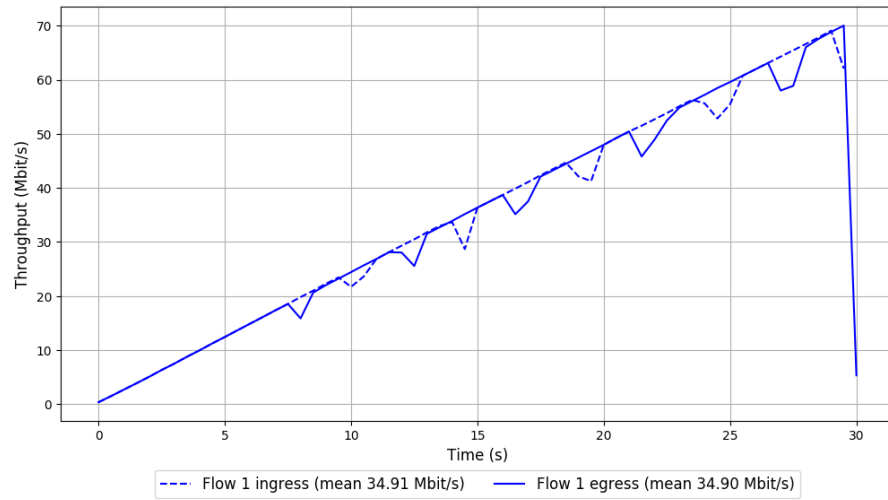
-- Flow 1:

Average throughput: 34.90 Mbit/s

95th percentile per-packet one-way delay: 52.462 ms

Loss rate: 0.03%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-20 05:18:53

End at: 2018-02-20 05:19:23

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 52.195 ms

Loss rate: 0.00%

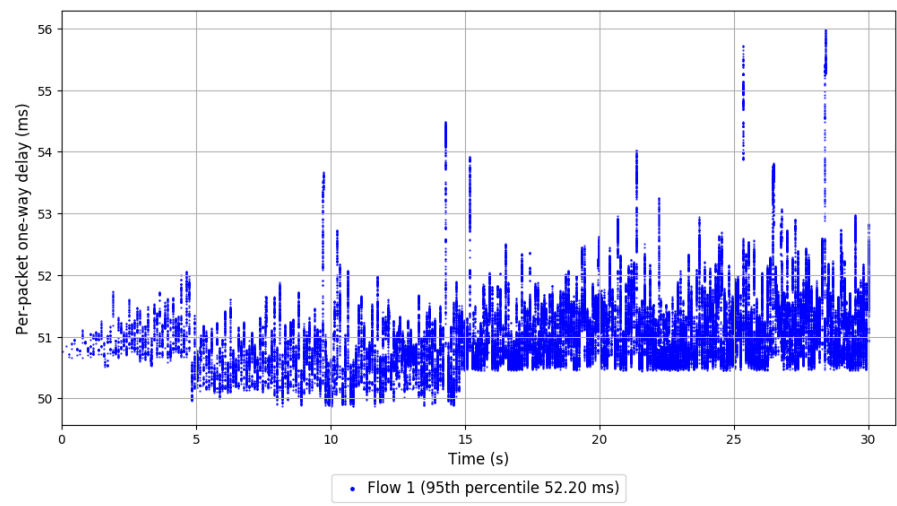
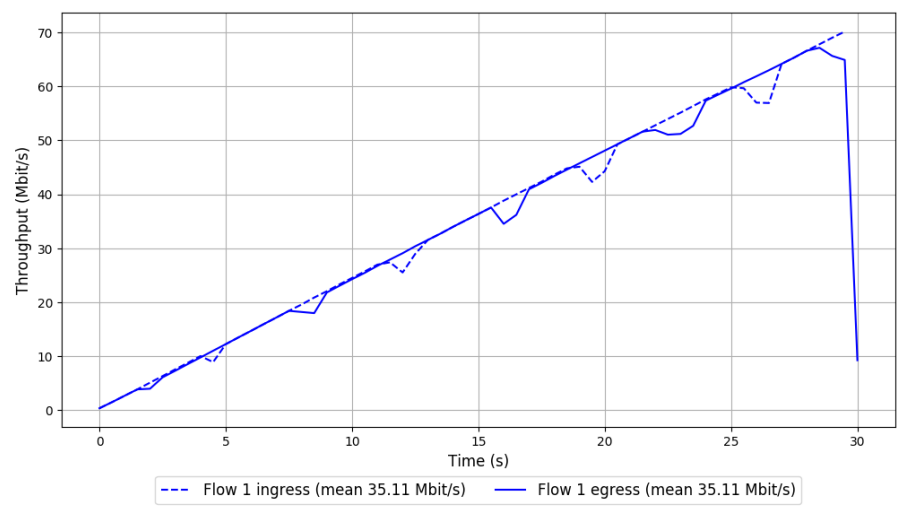
-- Flow 1:

Average throughput: 35.11 Mbit/s

95th percentile per-packet one-way delay: 52.195 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-20 05:33:53

End at: 2018-02-20 05:34:23

Below is generated by plot.py at 2018-02-20 07:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 52.157 ms

Loss rate: 0.00%

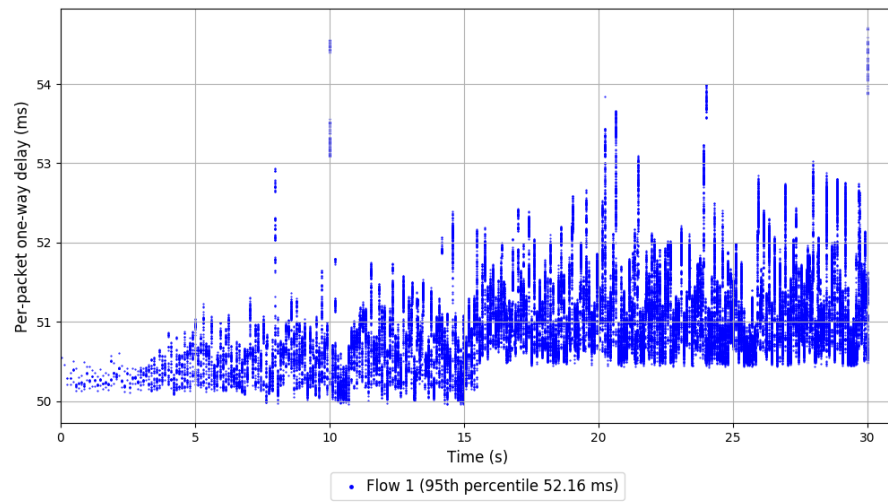
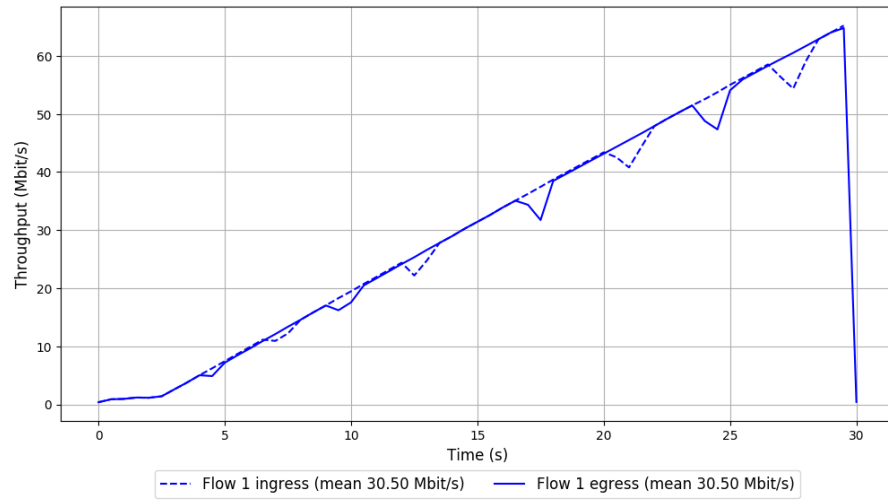
-- Flow 1:

Average throughput: 30.50 Mbit/s

95th percentile per-packet one-way delay: 52.157 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

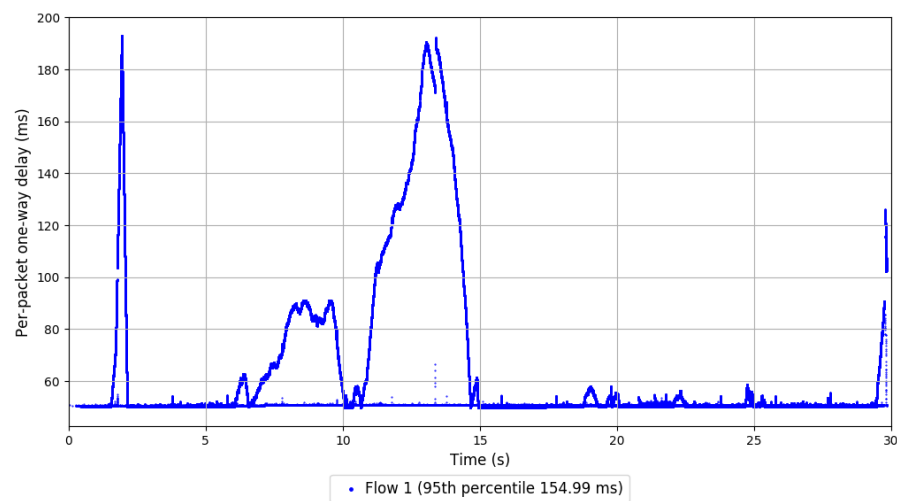
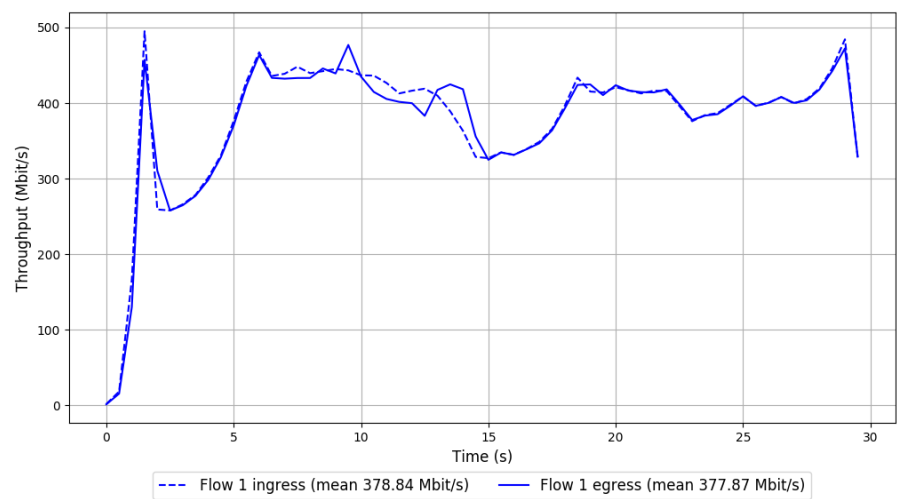


```
Run 1: Statistics of PCC

Start at: 2018-02-20 03:17:11
End at: 2018-02-20 03:17:41

# Below is generated by plot.py at 2018-02-20 07:48:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.87 Mbit/s
95th percentile per-packet one-way delay: 154.992 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 377.87 Mbit/s
95th percentile per-packet one-way delay: 154.992 ms
Loss rate: 0.25%
```

Run 1: Report of PCC — Data Link

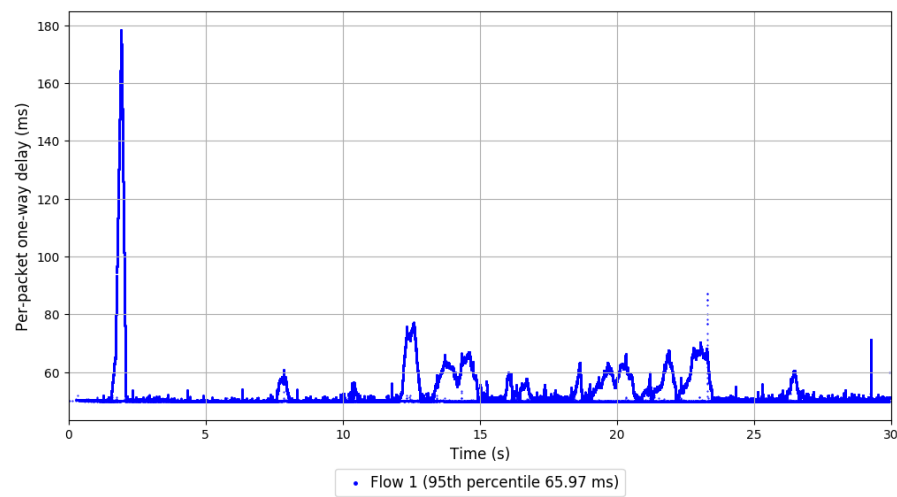
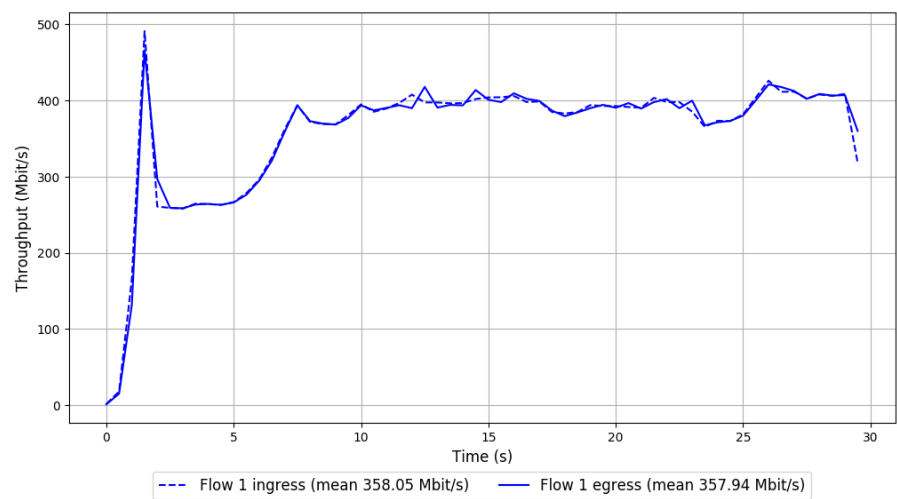


```
Run 2: Statistics of PCC

Start at: 2018-02-20 03:32:04
End at: 2018-02-20 03:32:34

# Below is generated by plot.py at 2018-02-20 07:48:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 357.94 Mbit/s
95th percentile per-packet one-way delay: 65.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 357.94 Mbit/s
95th percentile per-packet one-way delay: 65.973 ms
Loss rate: 0.00%
```

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-20 03:46:44

End at: 2018-02-20 03:47:14

Below is generated by plot.py at 2018-02-20 07:48:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.82 Mbit/s

95th percentile per-packet one-way delay: 103.546 ms

Loss rate: 0.03%

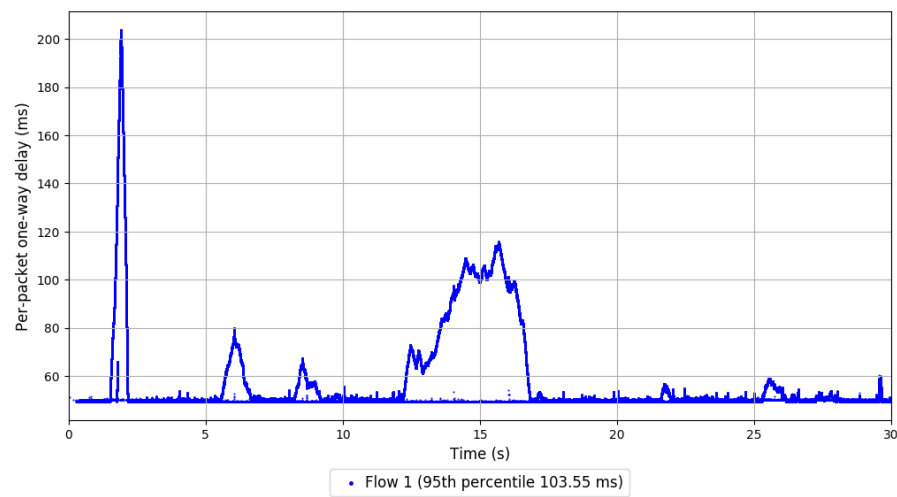
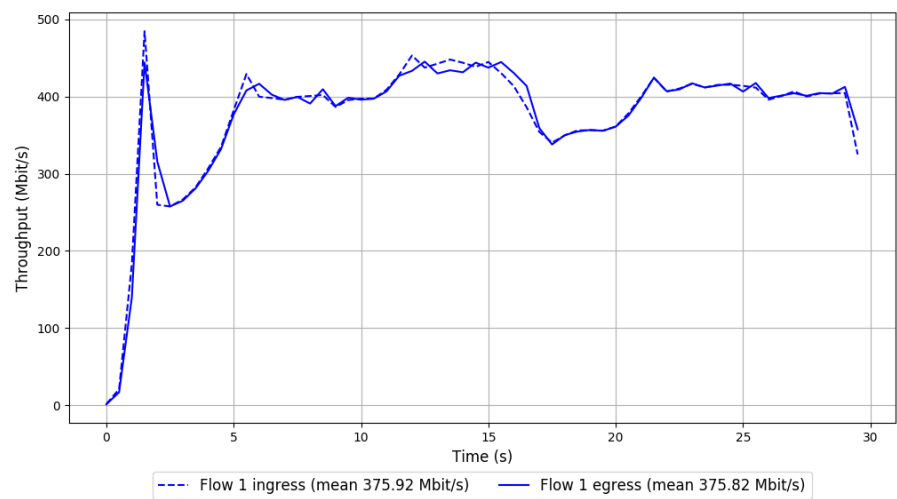
-- Flow 1:

Average throughput: 375.82 Mbit/s

95th percentile per-packet one-way delay: 103.546 ms

Loss rate: 0.03%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-20 04:01:35

End at: 2018-02-20 04:02:05

Below is generated by plot.py at 2018-02-20 07:48:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.46 Mbit/s

95th percentile per-packet one-way delay: 100.053 ms

Loss rate: 0.04%

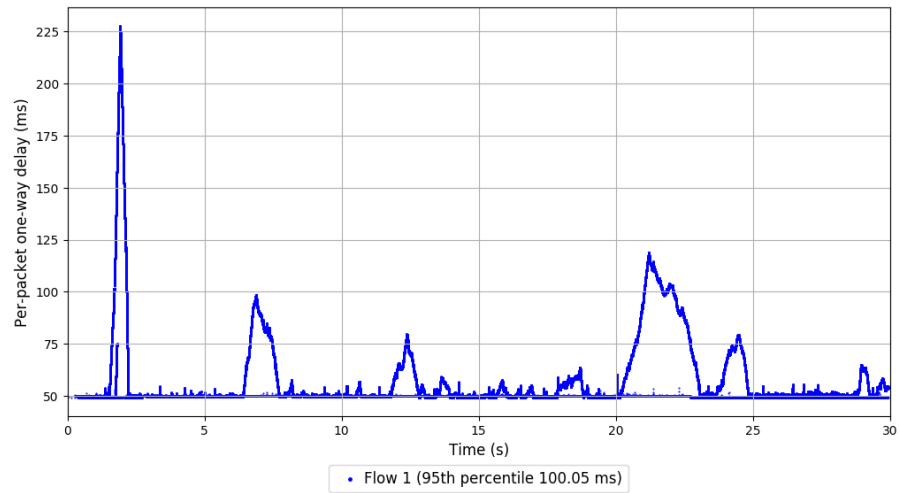
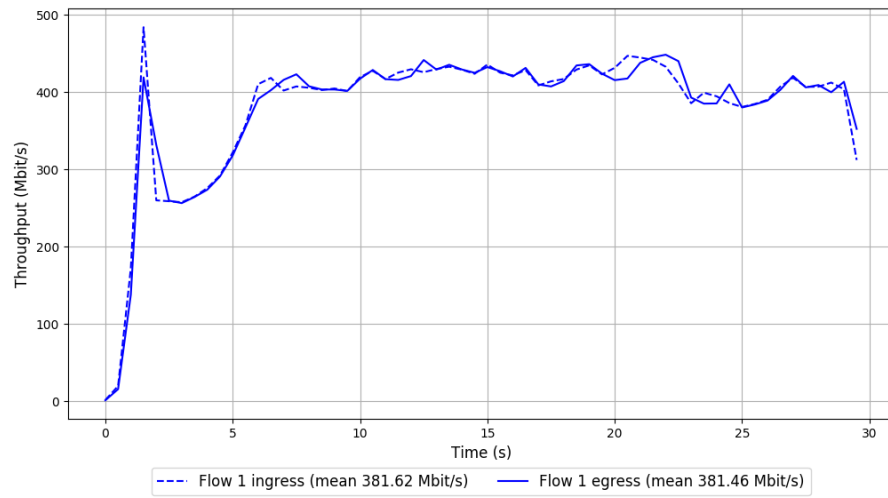
-- Flow 1:

Average throughput: 381.46 Mbit/s

95th percentile per-packet one-way delay: 100.053 ms

Loss rate: 0.04%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-20 04:16:37

End at: 2018-02-20 04:17:07

Below is generated by plot.py at 2018-02-20 07:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.43 Mbit/s

95th percentile per-packet one-way delay: 73.964 ms

Loss rate: 0.03%

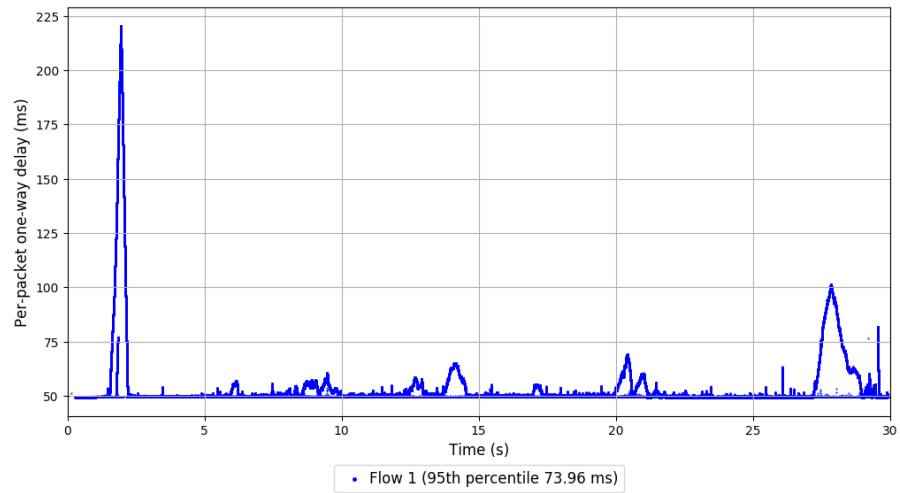
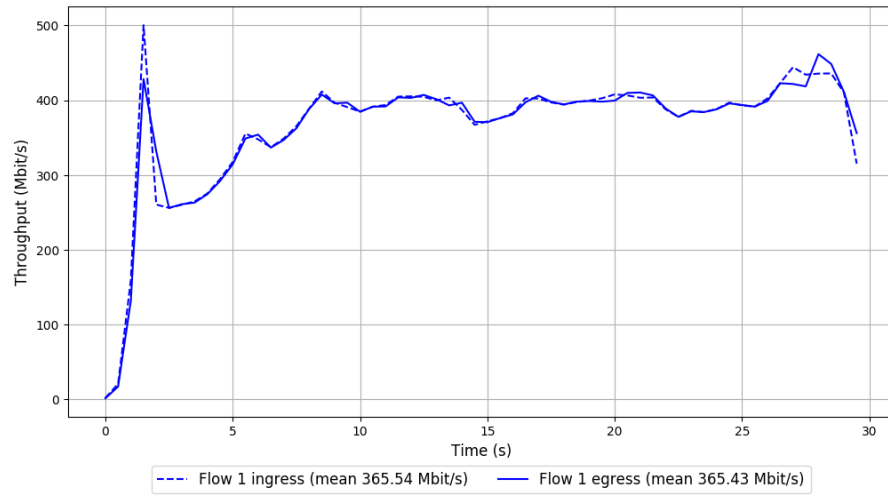
-- Flow 1:

Average throughput: 365.43 Mbit/s

95th percentile per-packet one-way delay: 73.964 ms

Loss rate: 0.03%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-20 04:31:28

End at: 2018-02-20 04:31:58

Below is generated by plot.py at 2018-02-20 07:50:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.61 Mbit/s

95th percentile per-packet one-way delay: 112.215 ms

Loss rate: 0.14%

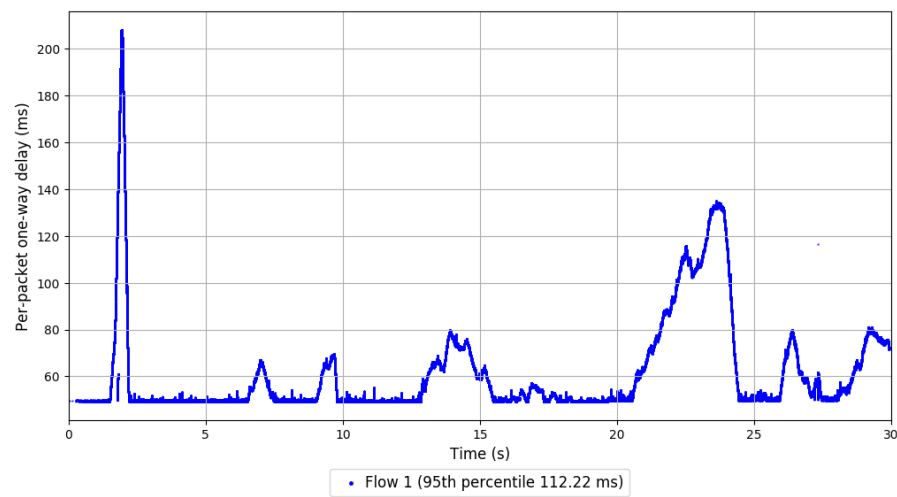
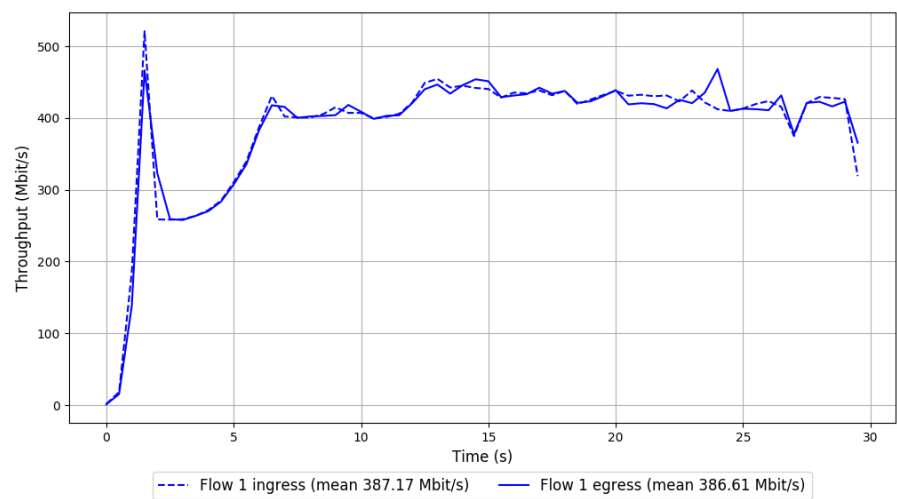
-- Flow 1:

Average throughput: 386.61 Mbit/s

95th percentile per-packet one-way delay: 112.215 ms

Loss rate: 0.14%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-20 04:46:16

End at: 2018-02-20 04:46:46

Below is generated by plot.py at 2018-02-20 07:50:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.91 Mbit/s

95th percentile per-packet one-way delay: 125.455 ms

Loss rate: 0.04%

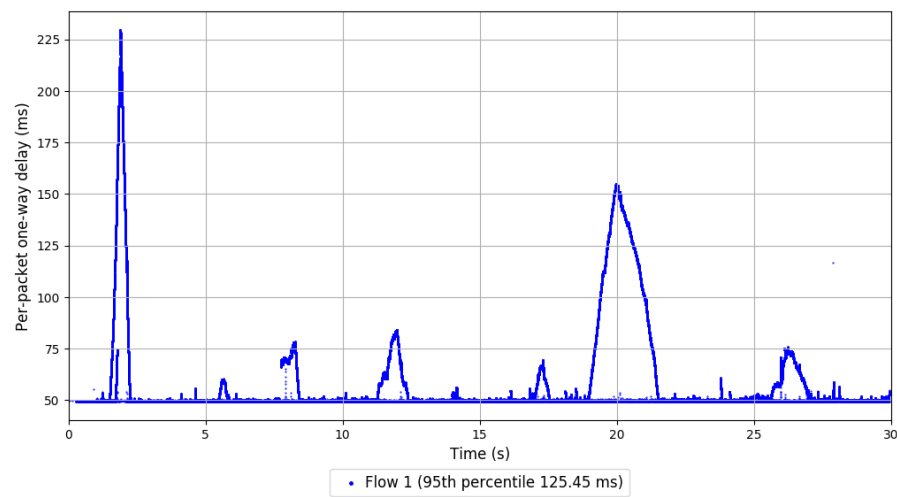
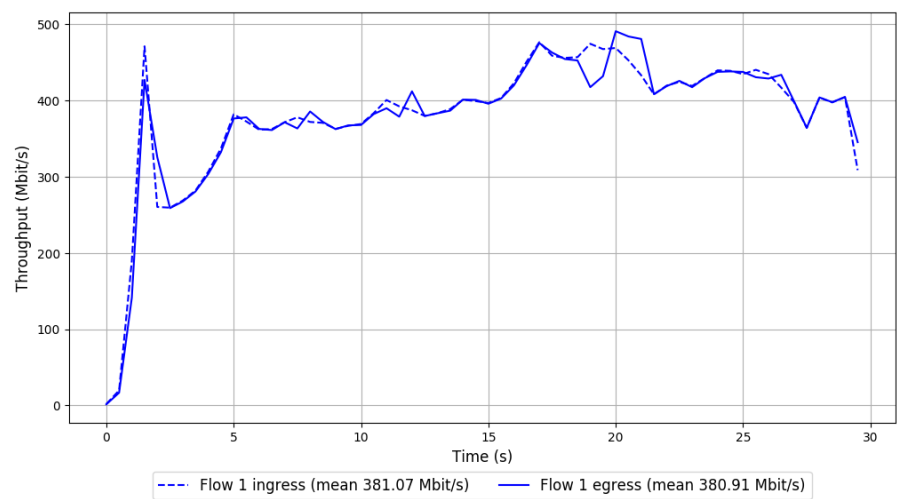
-- Flow 1:

Average throughput: 380.91 Mbit/s

95th percentile per-packet one-way delay: 125.455 ms

Loss rate: 0.04%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-20 05:01:18

End at: 2018-02-20 05:01:48

Below is generated by plot.py at 2018-02-20 07:51:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.96 Mbit/s

95th percentile per-packet one-way delay: 128.075 ms

Loss rate: 0.03%

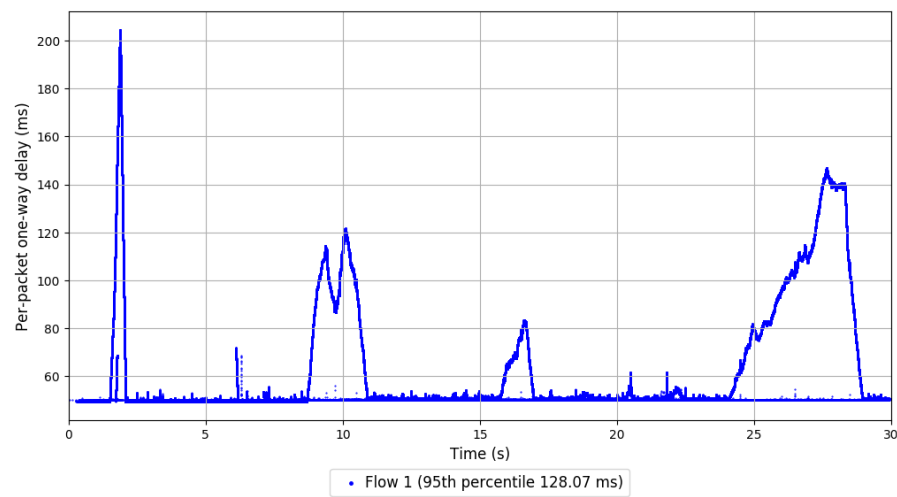
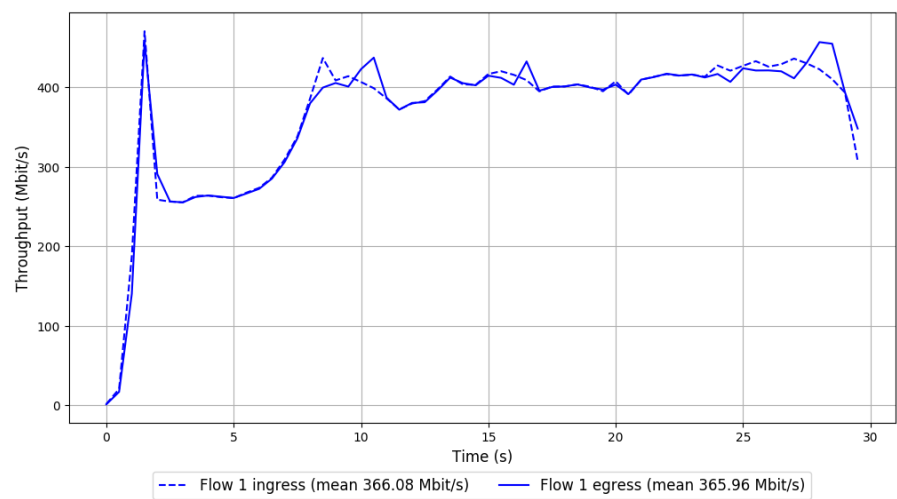
-- Flow 1:

Average throughput: 365.96 Mbit/s

95th percentile per-packet one-way delay: 128.075 ms

Loss rate: 0.03%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-20 05:16:16

End at: 2018-02-20 05:16:46

Below is generated by plot.py at 2018-02-20 07:55:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.49 Mbit/s

95th percentile per-packet one-way delay: 107.148 ms

Loss rate: 0.50%

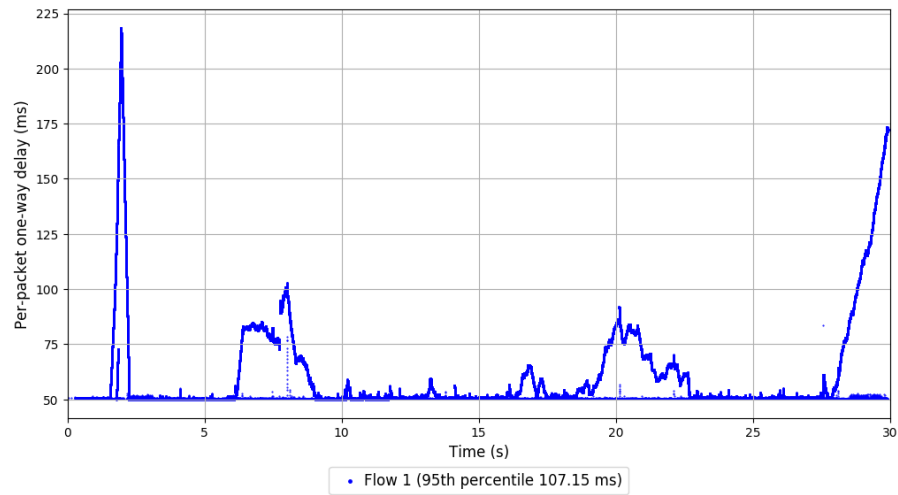
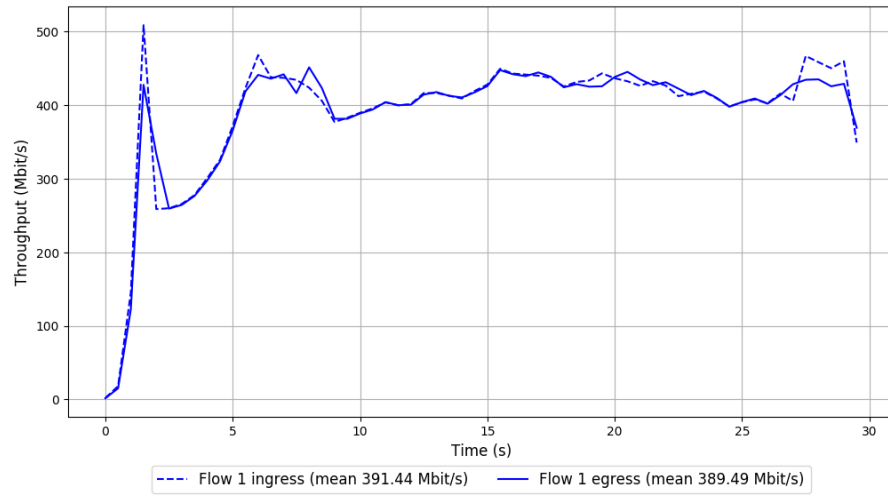
-- Flow 1:

Average throughput: 389.49 Mbit/s

95th percentile per-packet one-way delay: 107.148 ms

Loss rate: 0.50%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-20 05:31:10

End at: 2018-02-20 05:31:40

Below is generated by plot.py at 2018-02-20 07:55:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.80 Mbit/s

95th percentile per-packet one-way delay: 184.116 ms

Loss rate: 0.18%

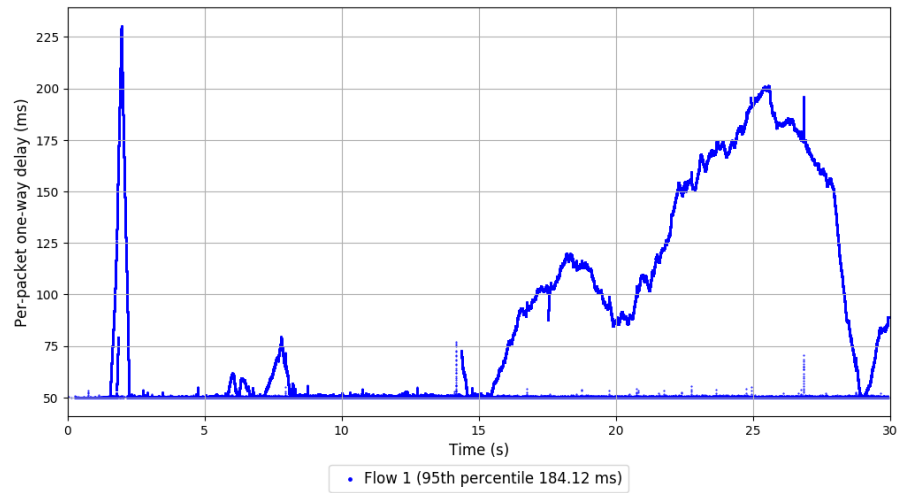
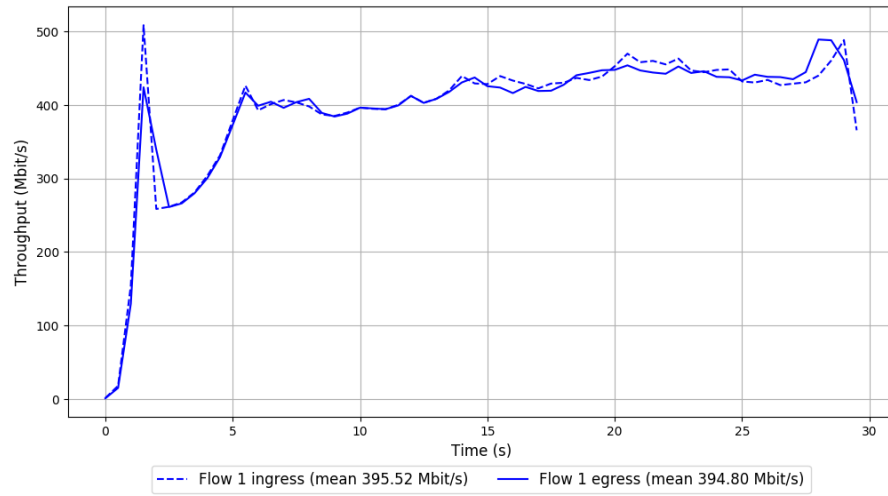
-- Flow 1:

Average throughput: 394.80 Mbit/s

95th percentile per-packet one-way delay: 184.116 ms

Loss rate: 0.18%

Run 10: Report of PCC — Data Link

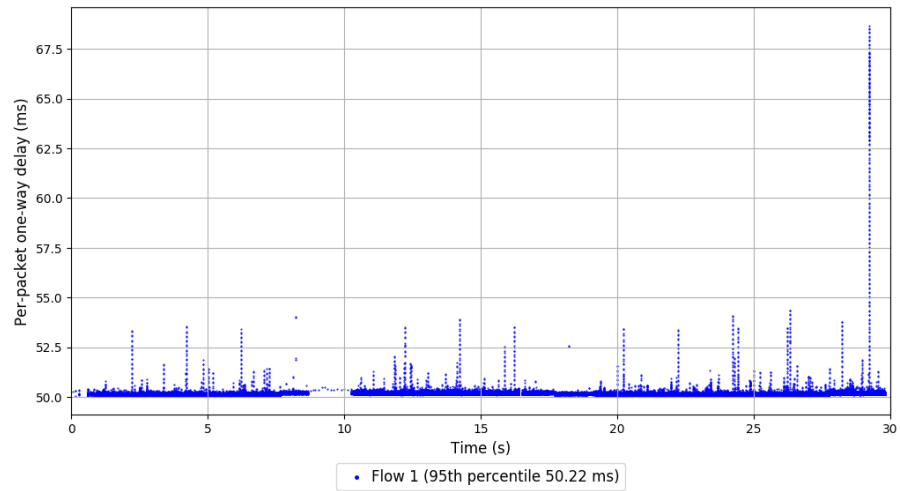
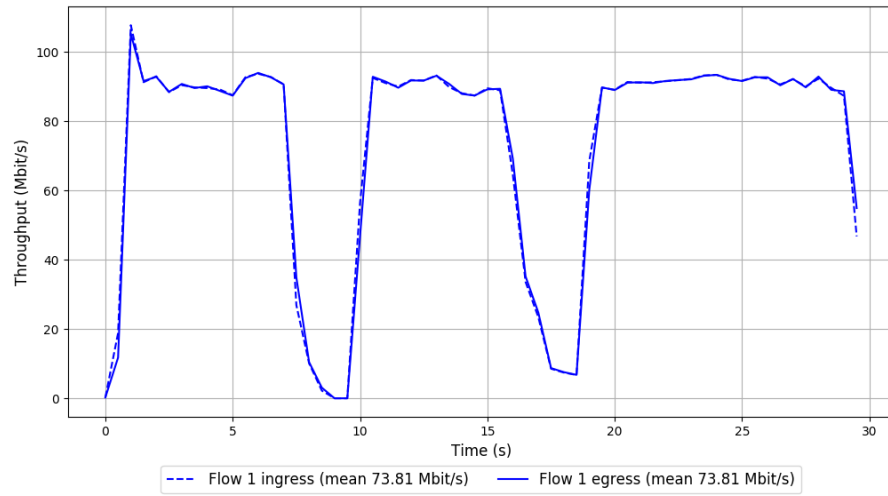


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-20 03:16:30
End at: 2018-02-20 03:17:00

# Below is generated by plot.py at 2018-02-20 07:55:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.81 Mbit/s
95th percentile per-packet one-way delay: 50.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.81 Mbit/s
95th percentile per-packet one-way delay: 50.216 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-20 03:31:24

End at: 2018-02-20 03:31:54

Below is generated by plot.py at 2018-02-20 07:55:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 50.555 ms

Loss rate: 0.00%

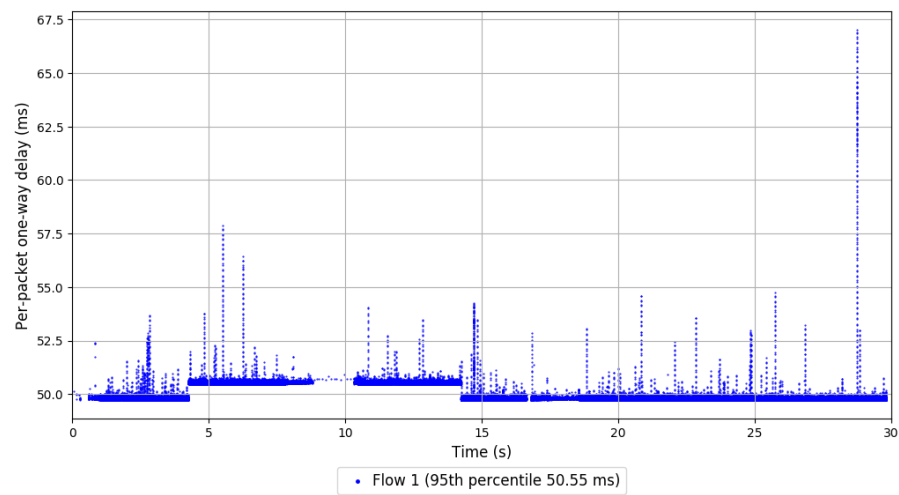
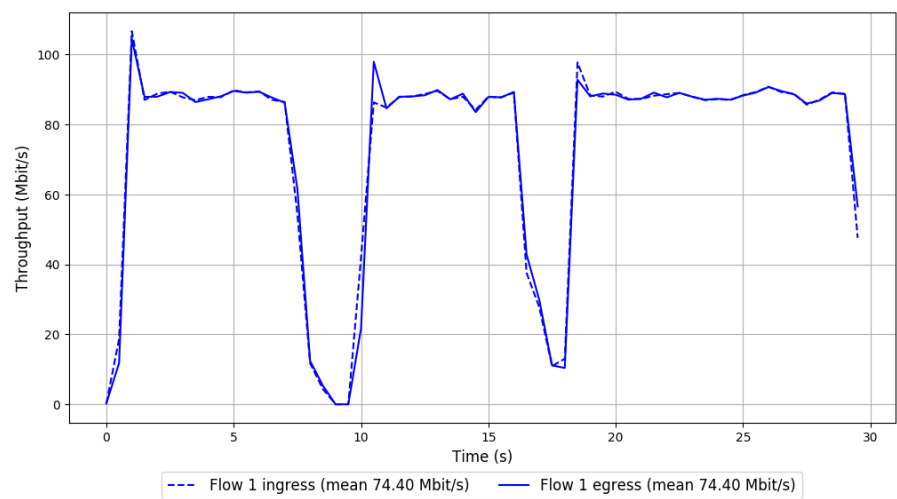
-- Flow 1:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 50.555 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-20 03:46:04

End at: 2018-02-20 03:46:34

Below is generated by plot.py at 2018-02-20 07:55:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.59 Mbit/s

95th percentile per-packet one-way delay: 50.457 ms

Loss rate: 0.00%

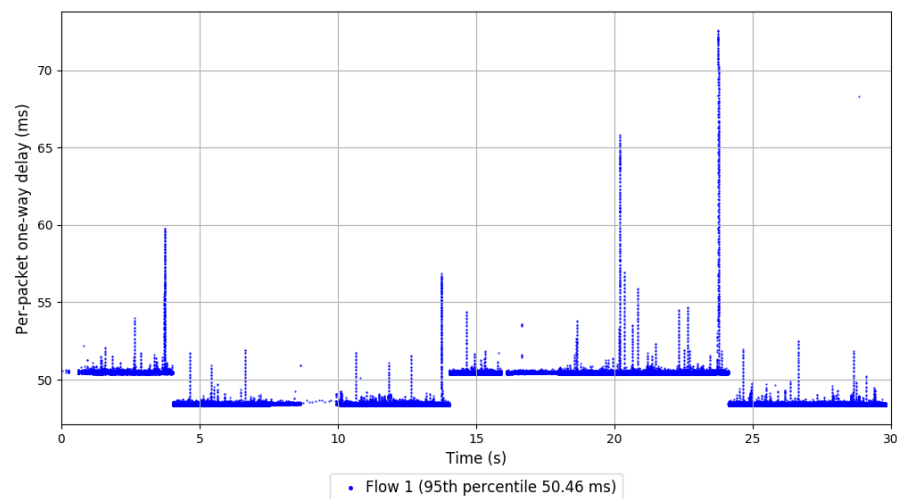
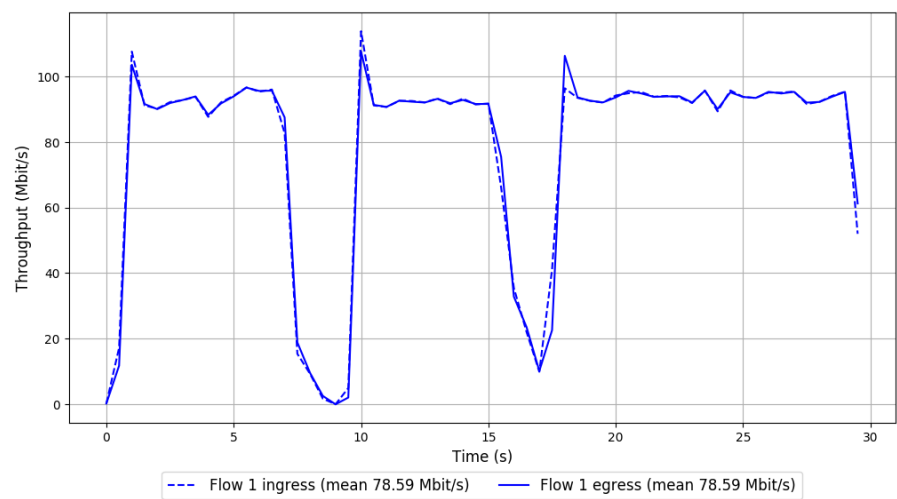
-- Flow 1:

Average throughput: 78.59 Mbit/s

95th percentile per-packet one-way delay: 50.457 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-20 04:00:55

End at: 2018-02-20 04:01:25

Below is generated by plot.py at 2018-02-20 07:55:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.99 Mbit/s

95th percentile per-packet one-way delay: 50.091 ms

Loss rate: 0.01%

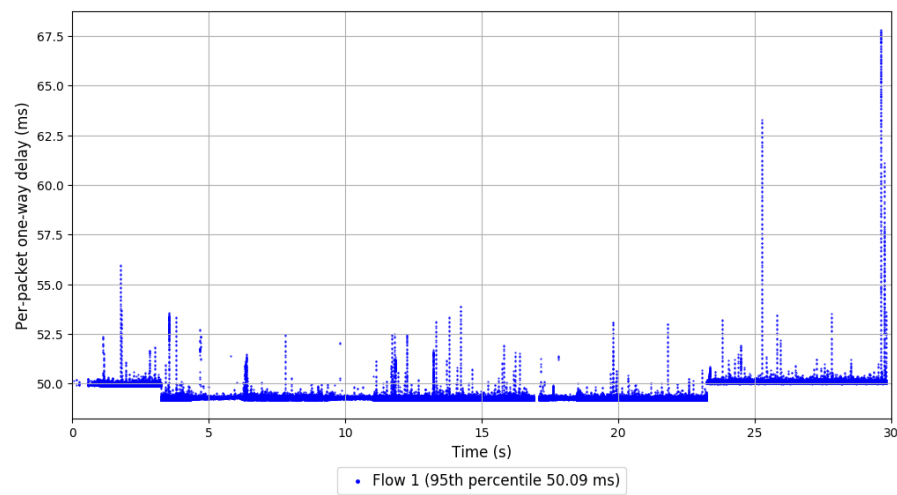
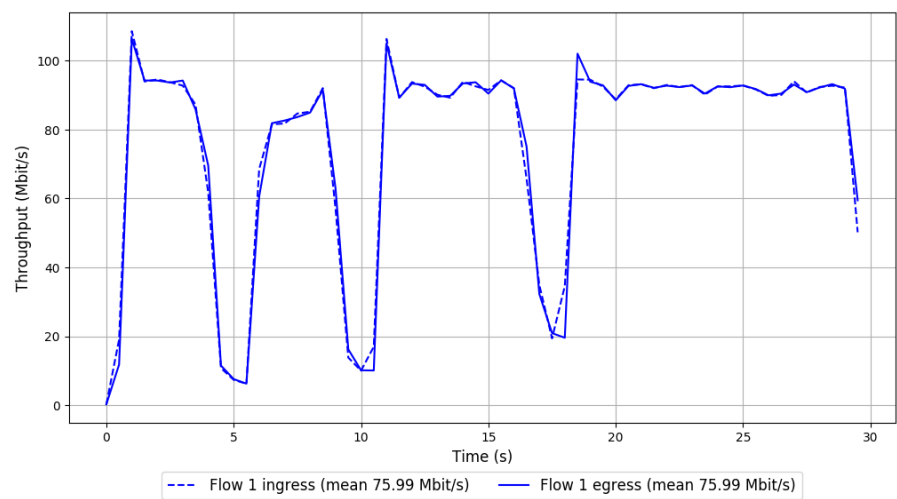
-- Flow 1:

Average throughput: 75.99 Mbit/s

95th percentile per-packet one-way delay: 50.091 ms

Loss rate: 0.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-20 04:15:57

End at: 2018-02-20 04:16:27

Below is generated by plot.py at 2018-02-20 07:55:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 50.274 ms

Loss rate: 0.00%

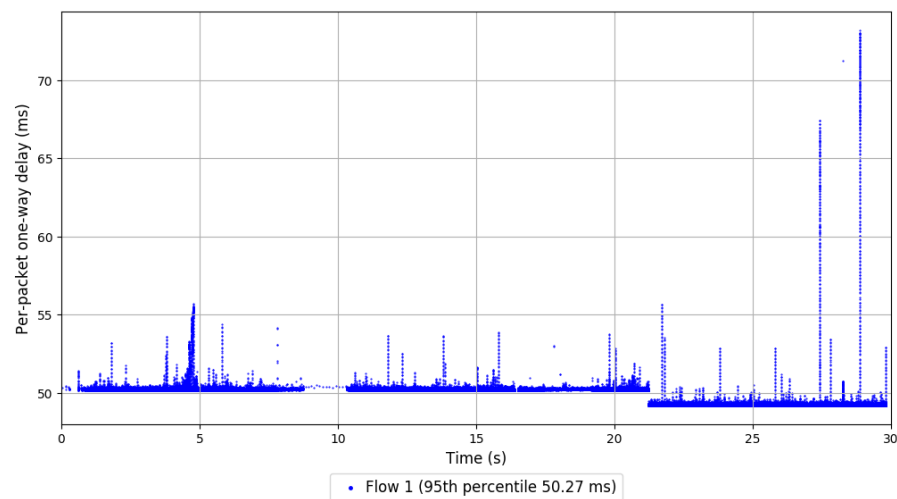
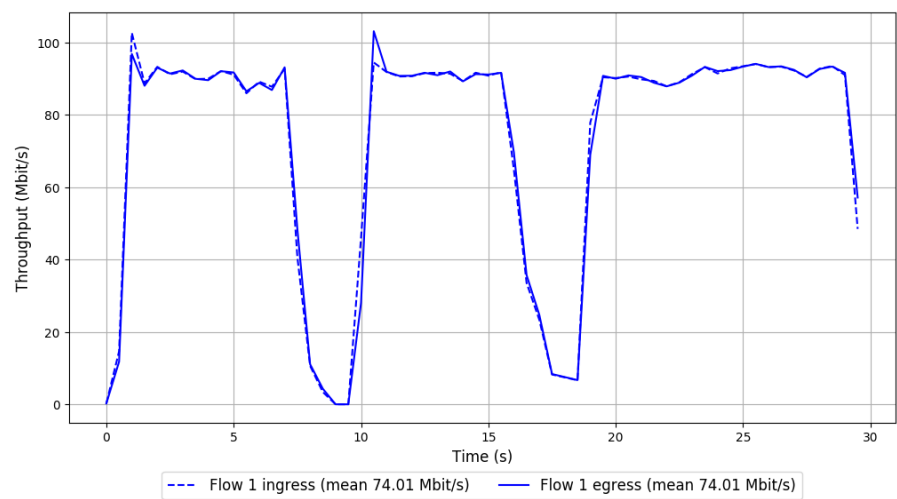
-- Flow 1:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 50.274 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-20 04:30:48

End at: 2018-02-20 04:31:18

Below is generated by plot.py at 2018-02-20 07:55:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 49.703 ms

Loss rate: 0.00%

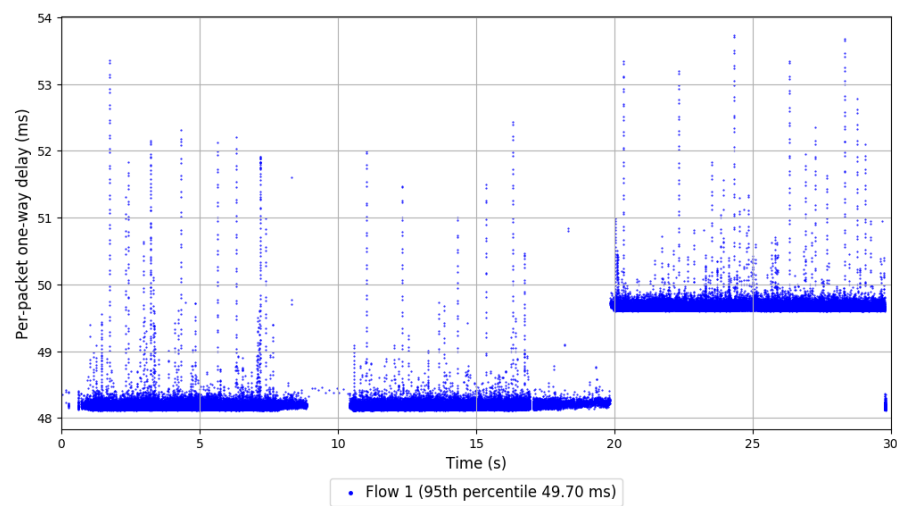
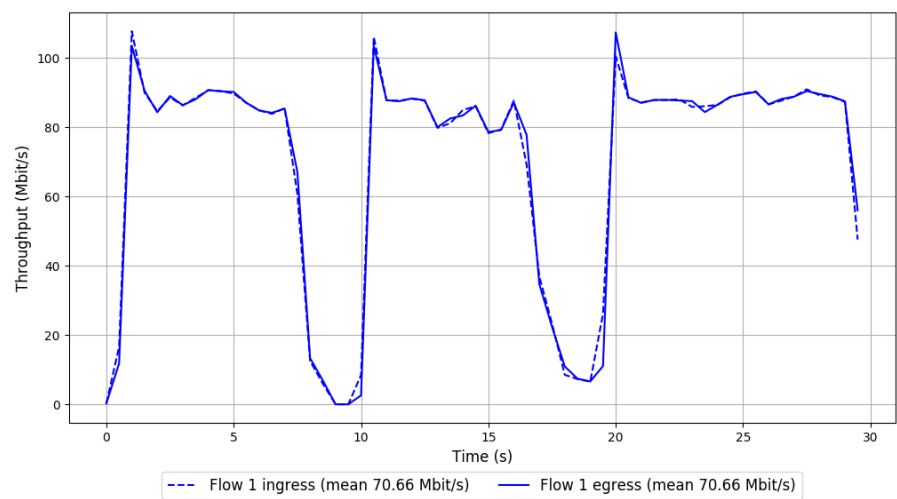
-- Flow 1:

Average throughput: 70.66 Mbit/s

95th percentile per-packet one-way delay: 49.703 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-20 04:45:36

End at: 2018-02-20 04:46:06

Below is generated by plot.py at 2018-02-20 07:55:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 50.241 ms

Loss rate: 0.00%

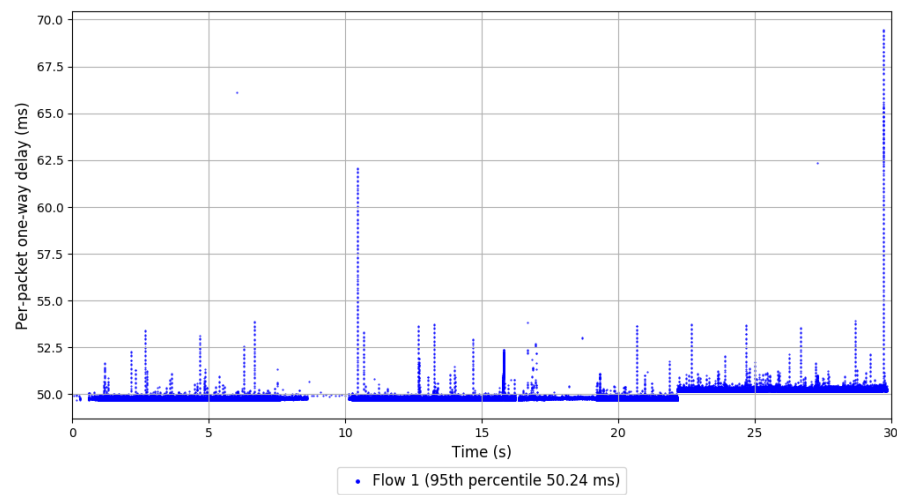
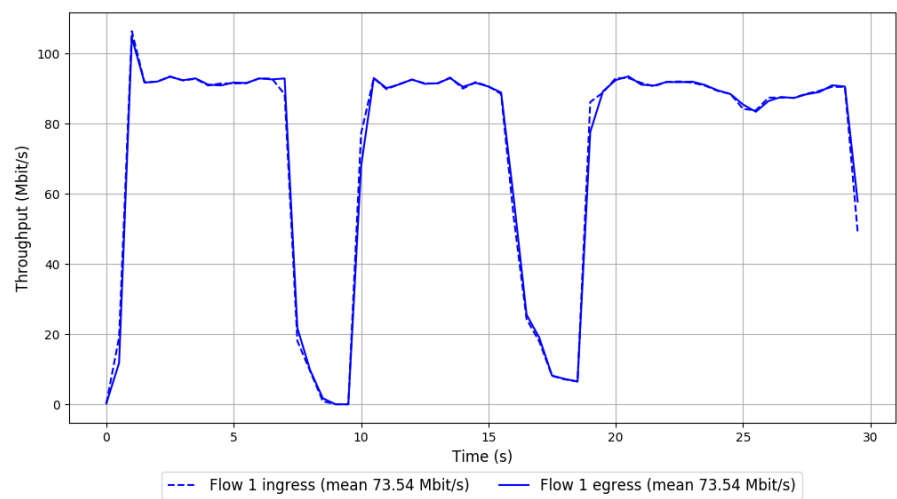
-- Flow 1:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 50.241 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-20 05:00:37

End at: 2018-02-20 05:01:07

Below is generated by plot.py at 2018-02-20 07:55:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 49.869 ms

Loss rate: 0.00%

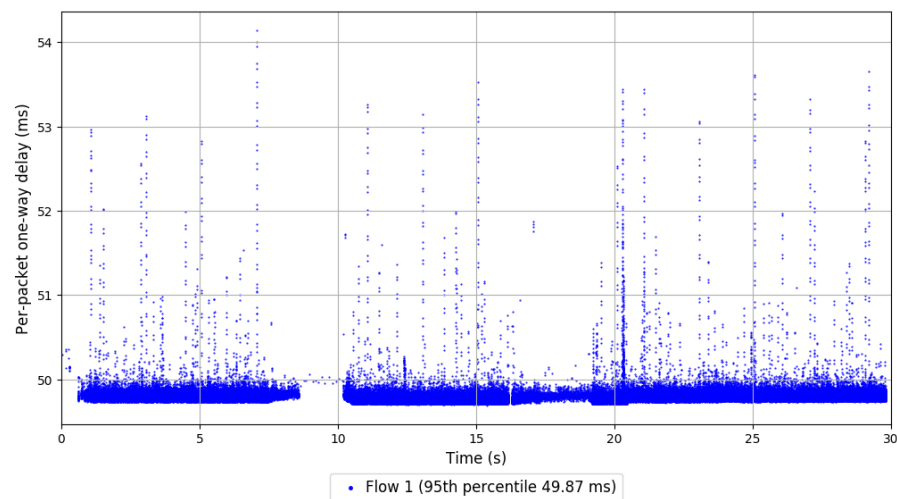
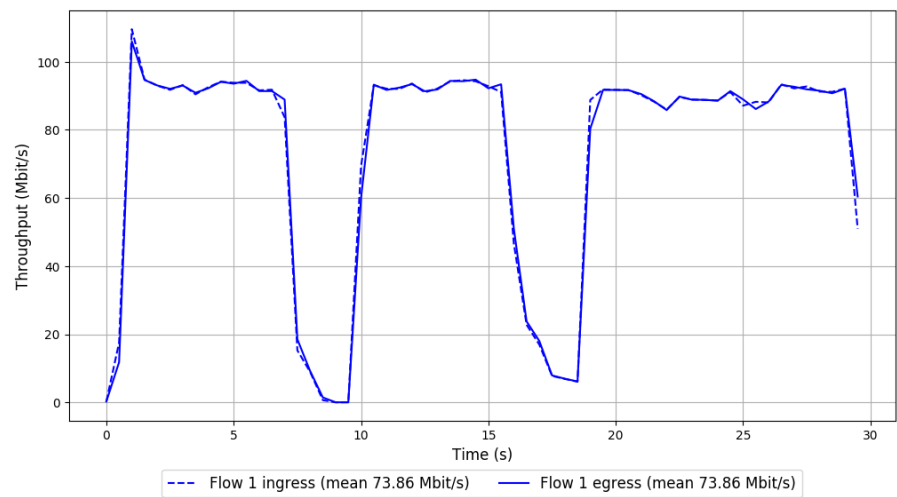
-- Flow 1:

Average throughput: 73.86 Mbit/s

95th percentile per-packet one-way delay: 49.869 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-20 05:15:36

End at: 2018-02-20 05:16:06

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 49.205 ms

Loss rate: 0.00%

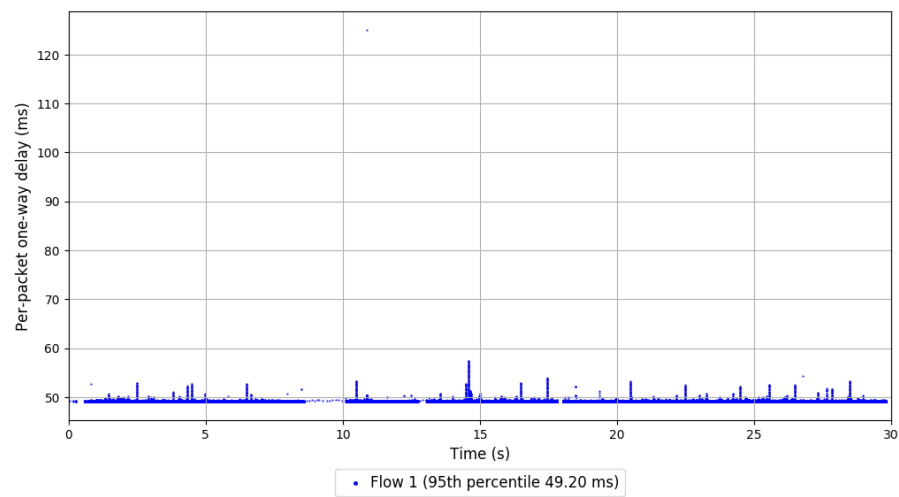
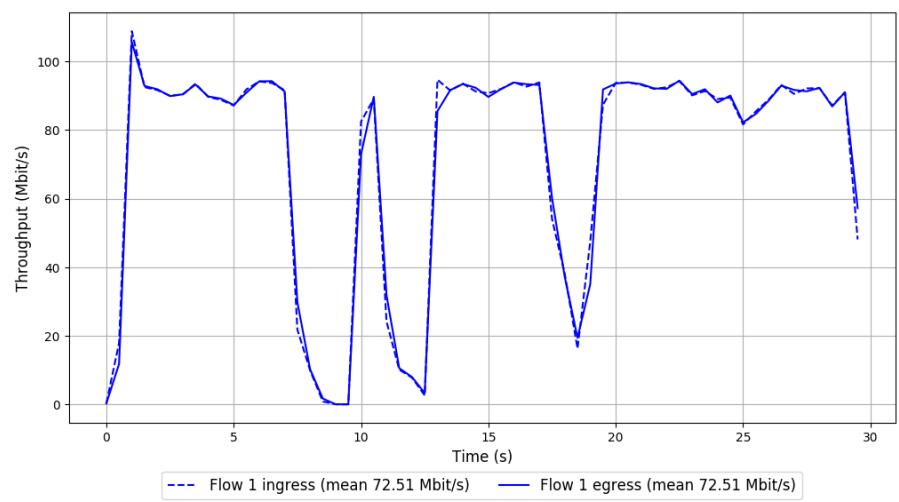
-- Flow 1:

Average throughput: 72.51 Mbit/s

95th percentile per-packet one-way delay: 49.205 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-20 05:30:29

End at: 2018-02-20 05:30:59

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 49.322 ms

Loss rate: 0.00%

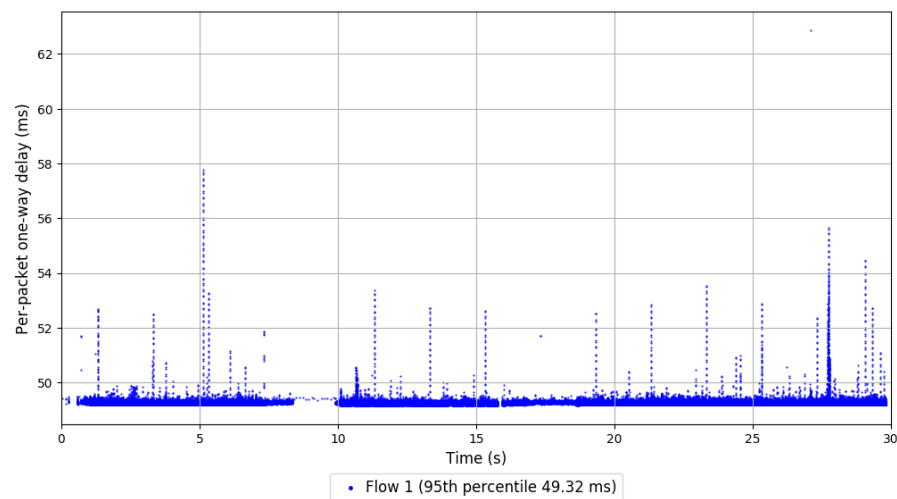
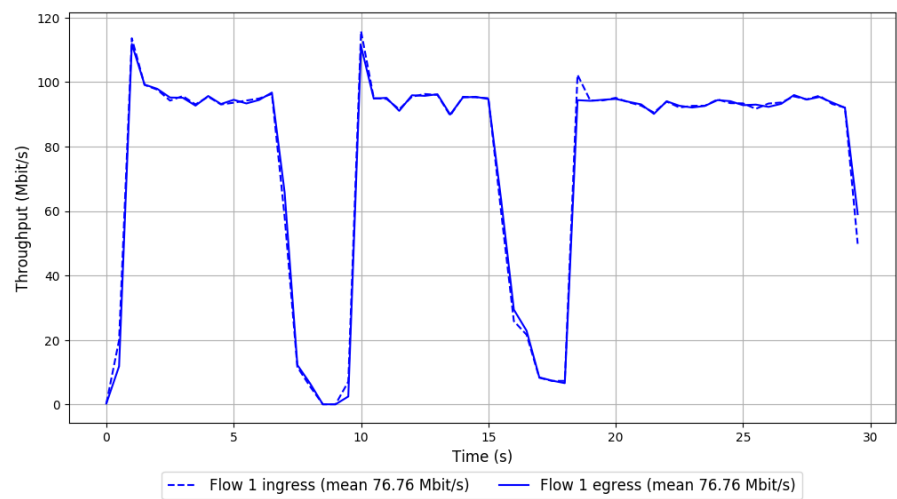
-- Flow 1:

Average throughput: 76.76 Mbit/s

95th percentile per-packet one-way delay: 49.322 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

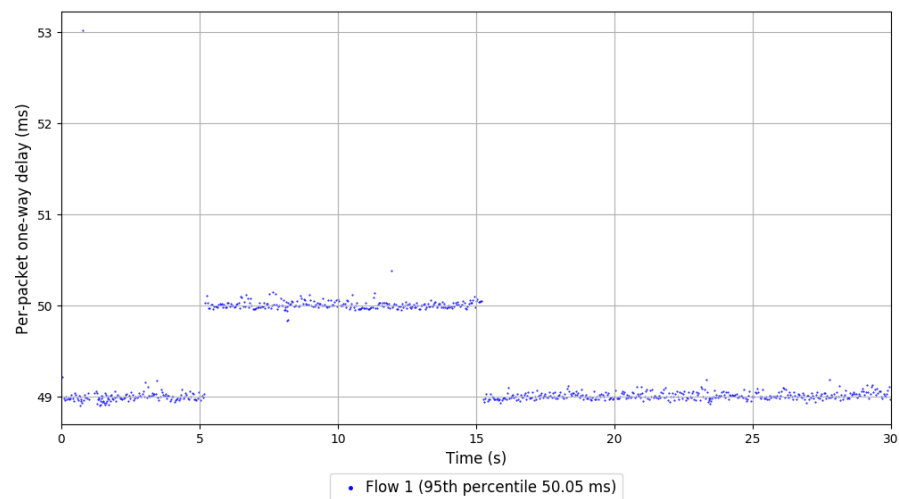
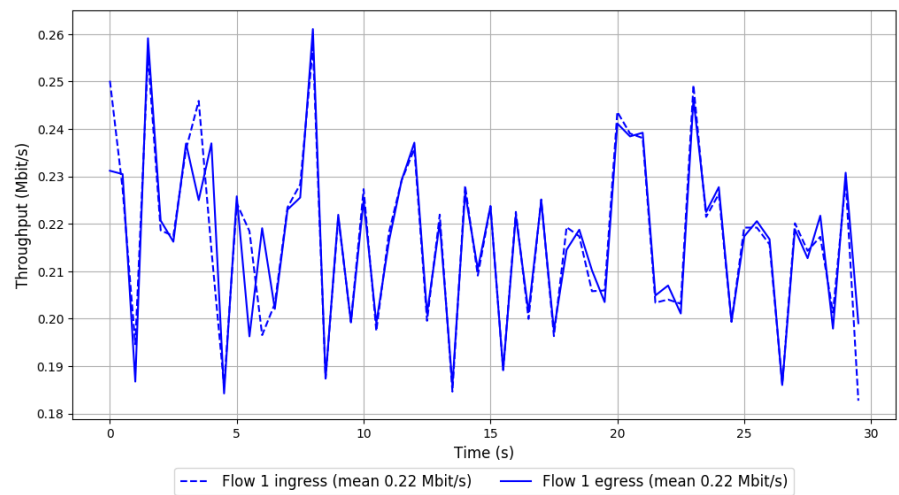


```
Run 1: Statistics of SCReAM

Start at: 2018-02-20 03:25:53
End at: 2018-02-20 03:26:23

# Below is generated by plot.py at 2018-02-20 07:55:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.047 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.047 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

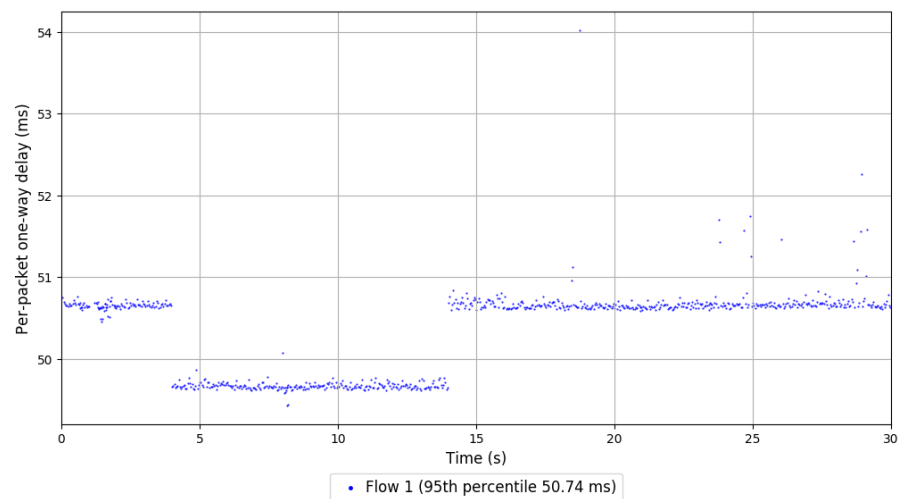
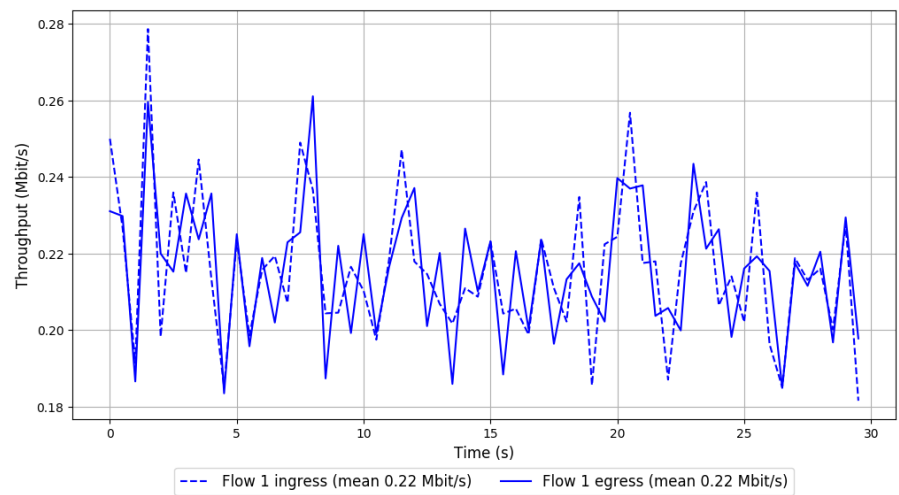


```
Run 2: Statistics of SCReAM

Start at: 2018-02-20 03:40:34
End at: 2018-02-20 03:41:04

# Below is generated by plot.py at 2018-02-20 07:55:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.744 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-20 03:55:22

End at: 2018-02-20 03:55:53

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.537 ms

Loss rate: 0.00%

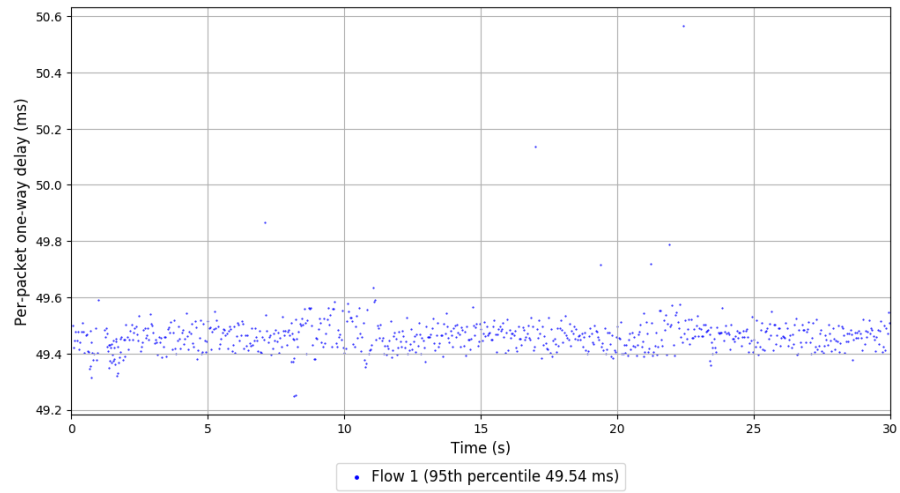
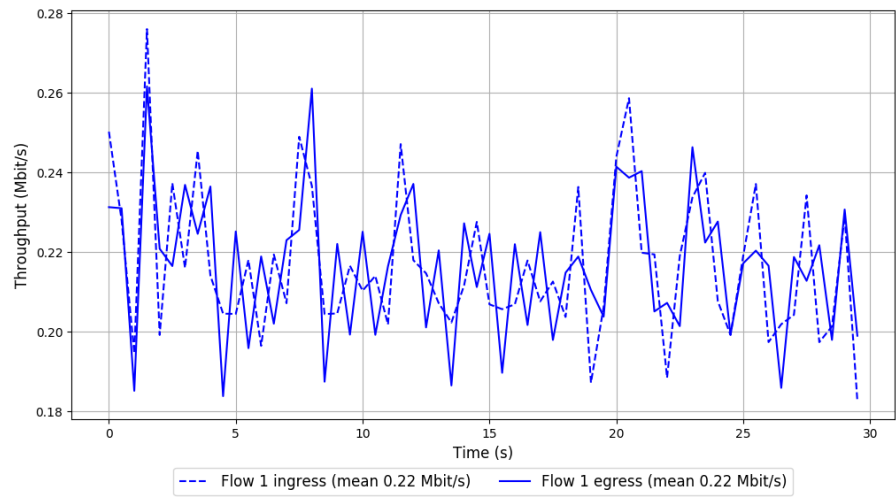
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.537 ms

Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-20 04:10:26

End at: 2018-02-20 04:10:57

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.926 ms

Loss rate: 0.00%

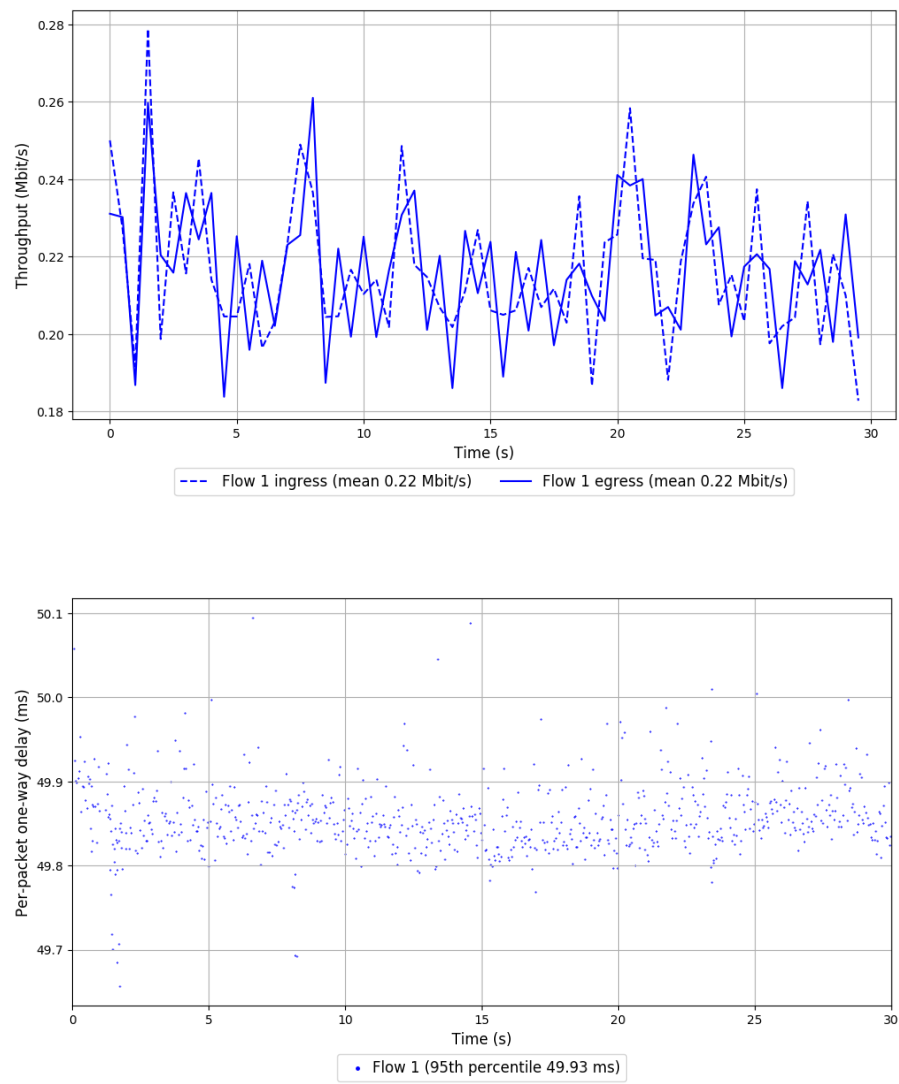
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.926 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-20 04:25:24

End at: 2018-02-20 04:25:54

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.351 ms

Loss rate: 0.00%

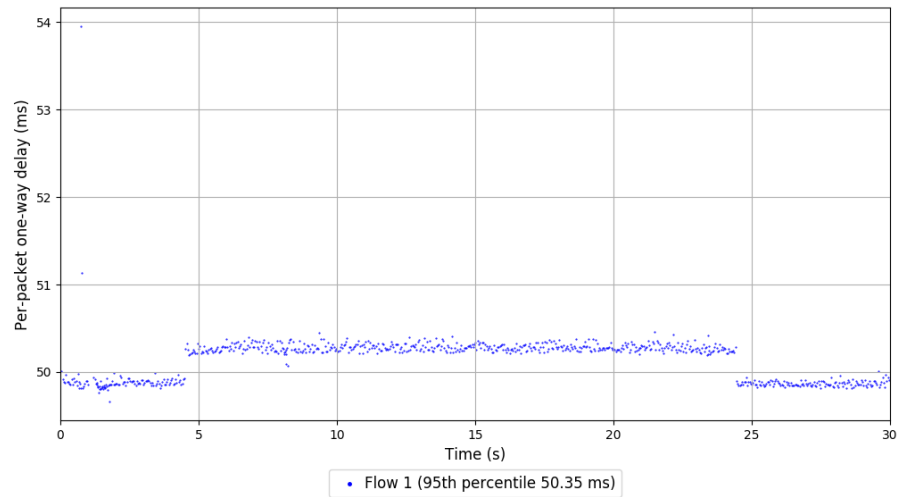
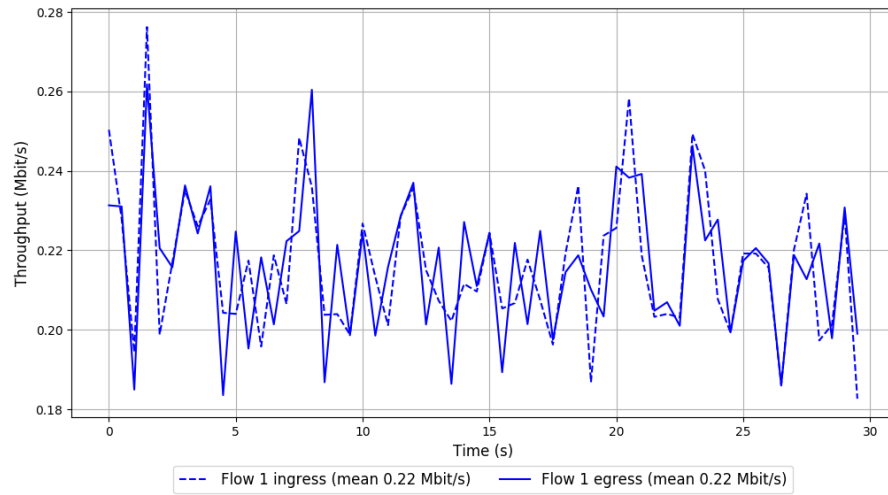
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.351 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-20 04:40:11

End at: 2018-02-20 04:40:41

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.865 ms

Loss rate: 0.00%

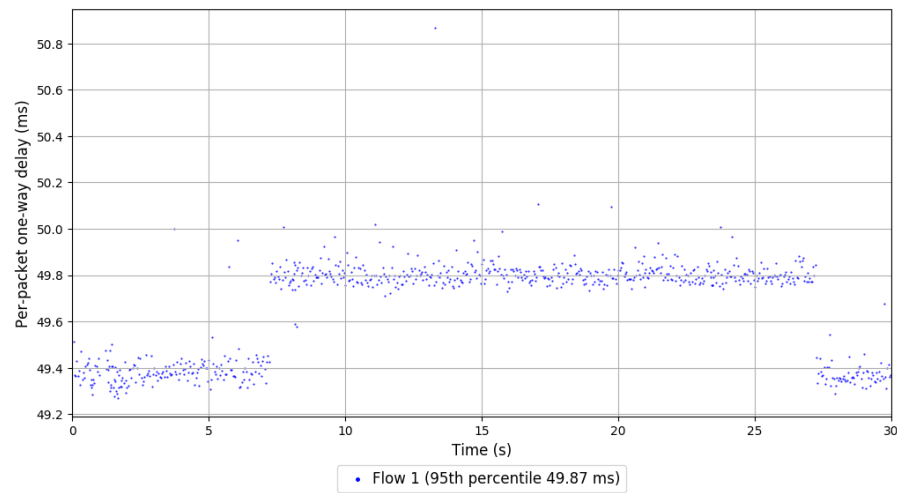
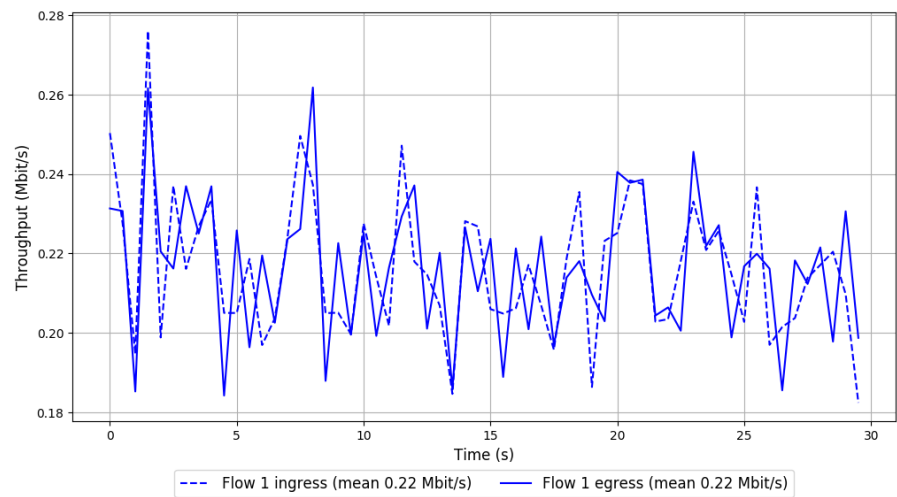
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.865 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-20 04:55:06

End at: 2018-02-20 04:55:36

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 0.00%

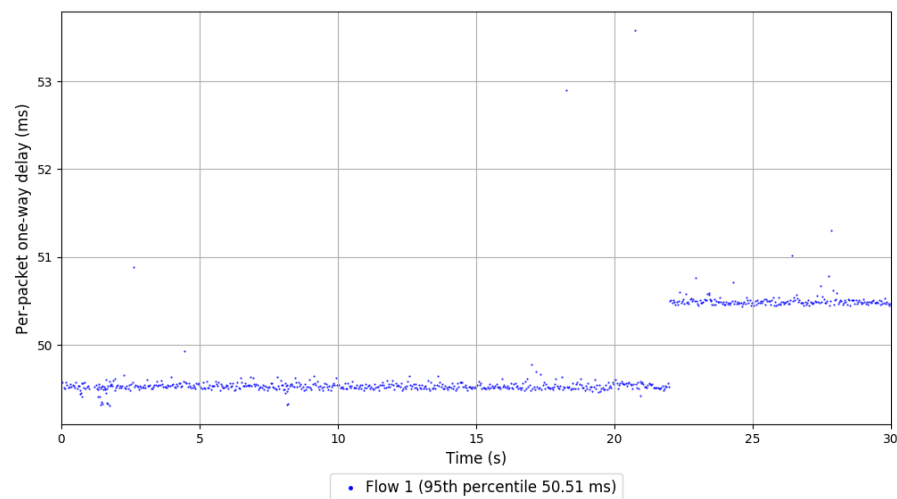
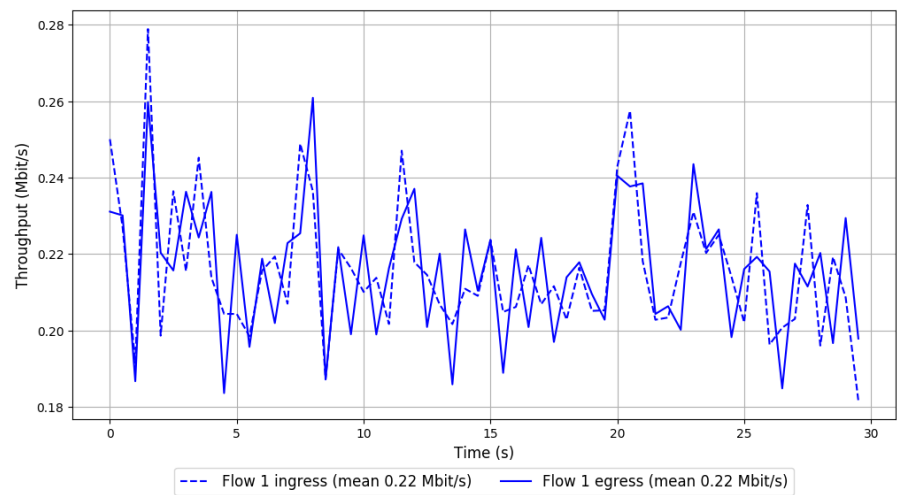
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-20 05:10:06

End at: 2018-02-20 05:10:36

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.728 ms

Loss rate: 0.00%

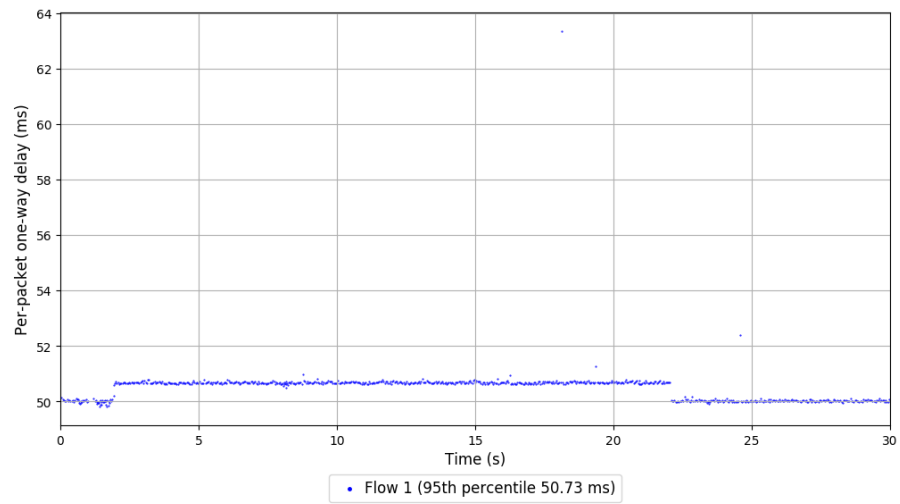
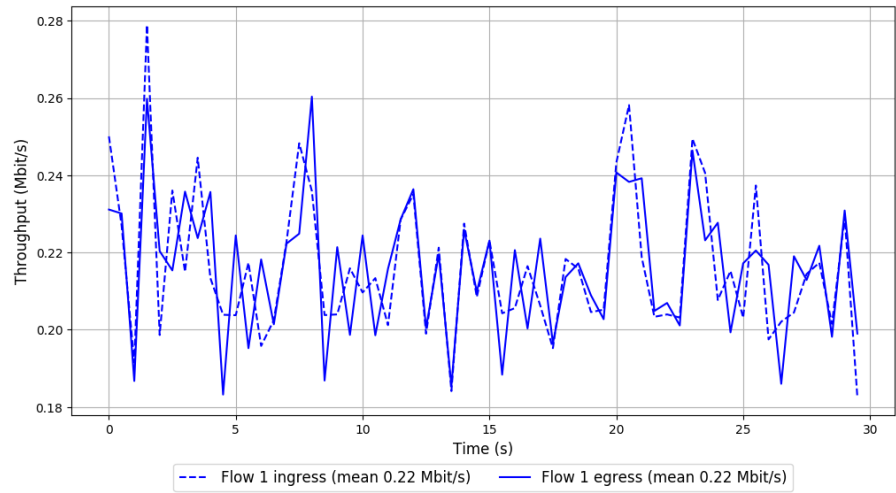
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.728 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-20 05:24:59

End at: 2018-02-20 05:25:29

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.749 ms

Loss rate: 0.00%

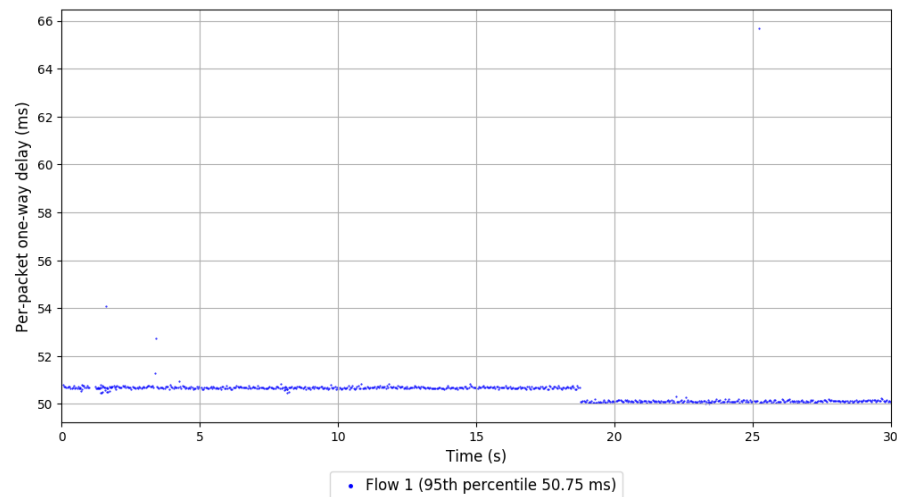
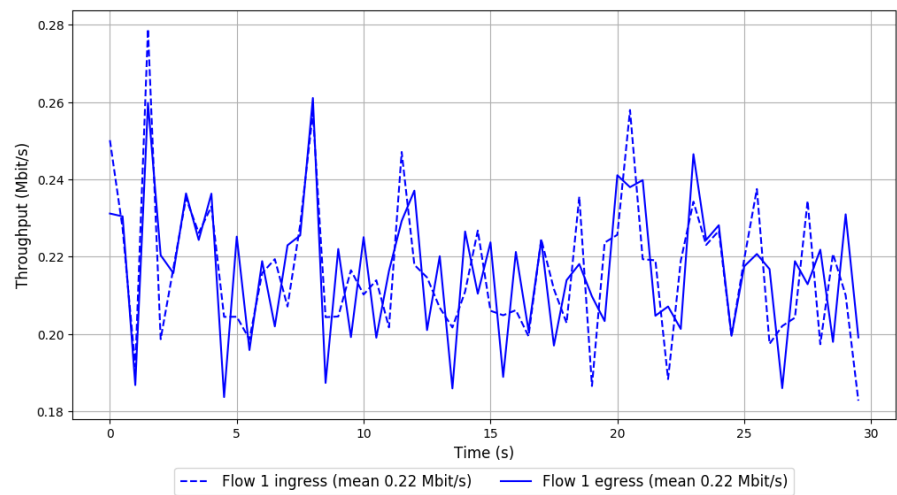
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.749 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-20 05:39:51

End at: 2018-02-20 05:40:21

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.551 ms

Loss rate: 0.00%

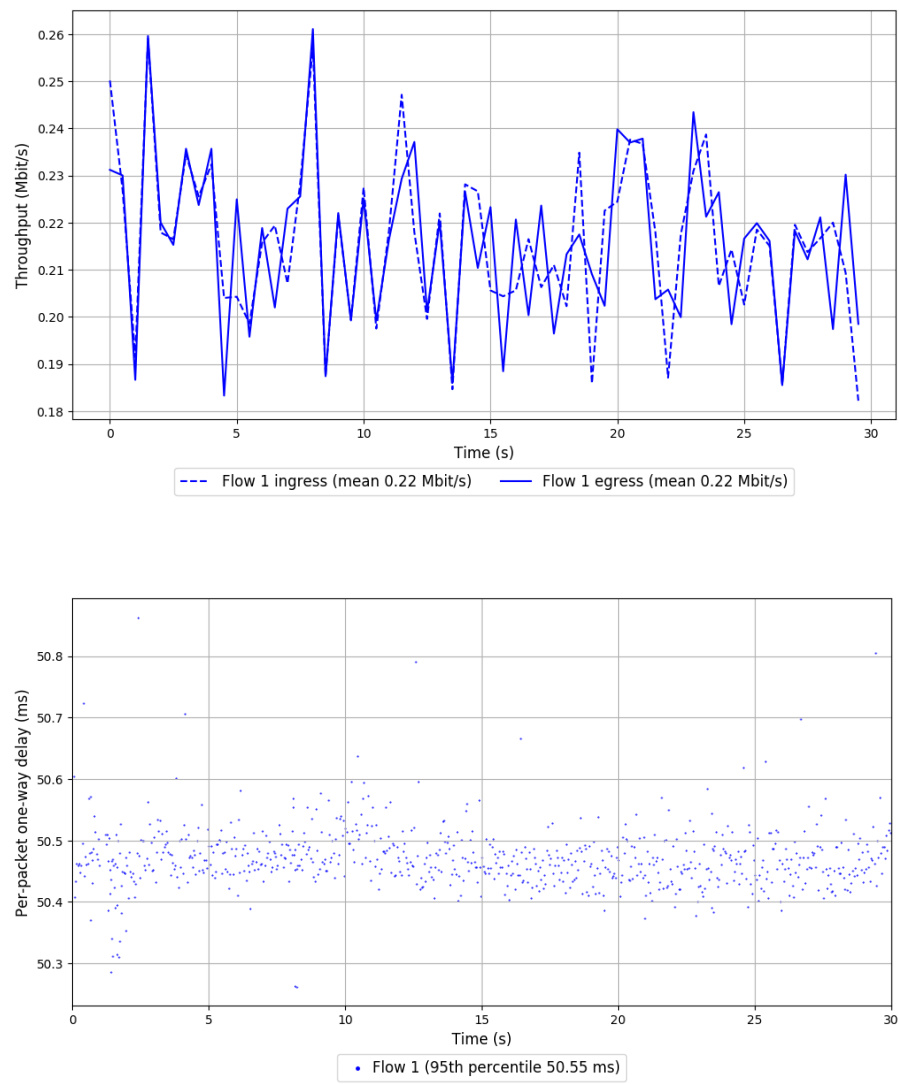
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.551 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

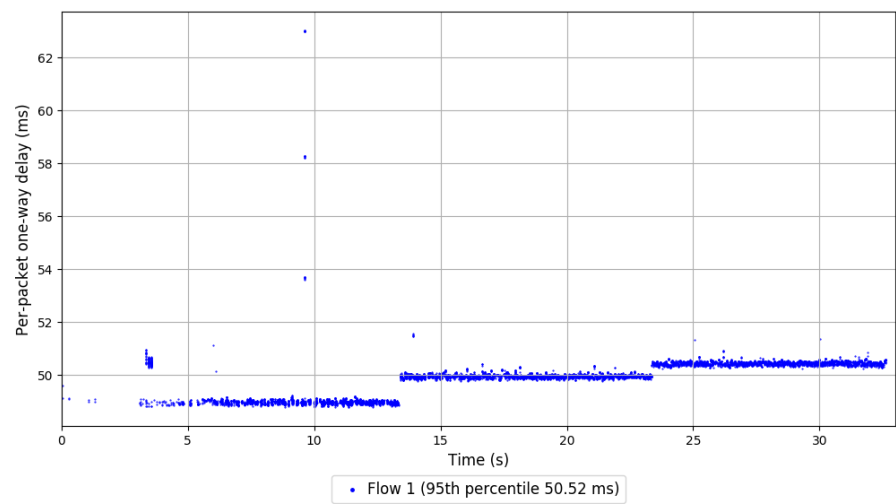
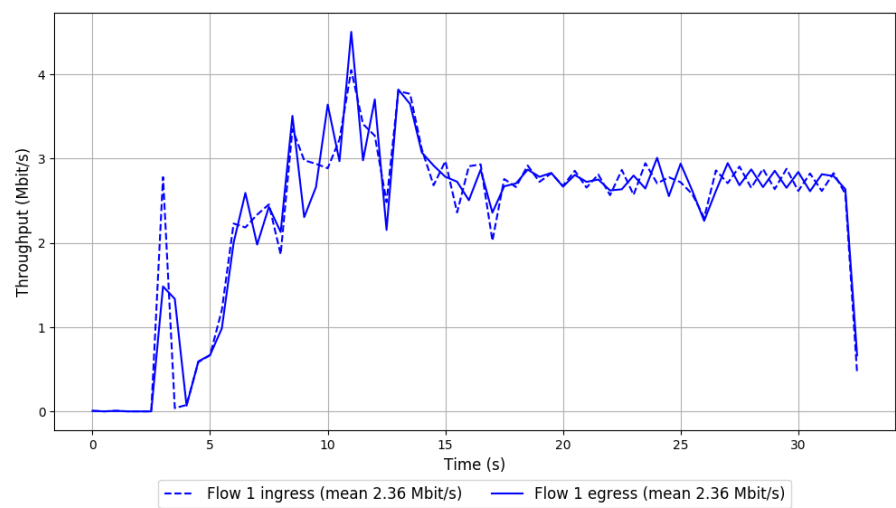


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-20 03:28:17
End at: 2018-02-20 03:28:47

# Below is generated by plot.py at 2018-02-20 07:55:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 50.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.36 Mbit/s
95th percentile per-packet one-way delay: 50.516 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-20 03:42:56

End at: 2018-02-20 03:43:26

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.614 ms

Loss rate: 0.00%

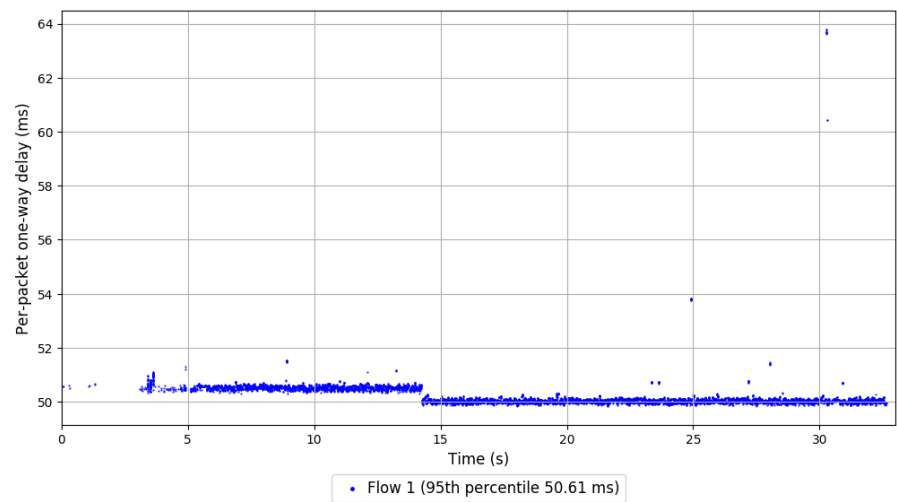
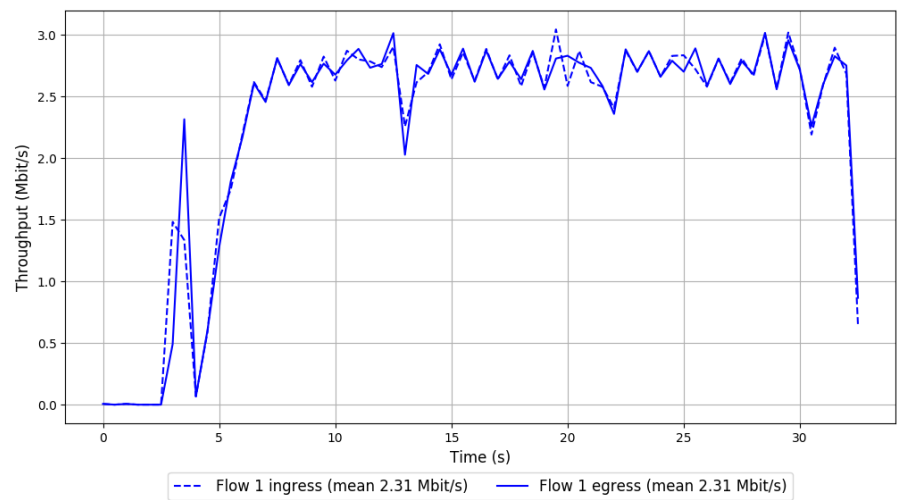
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.614 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-20 03:57:47

End at: 2018-02-20 03:58:17

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.032 ms

Loss rate: 0.00%

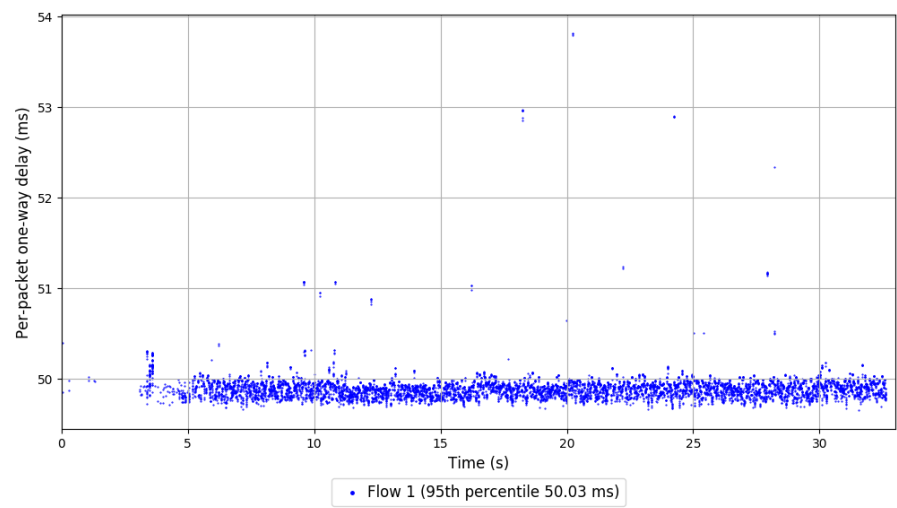
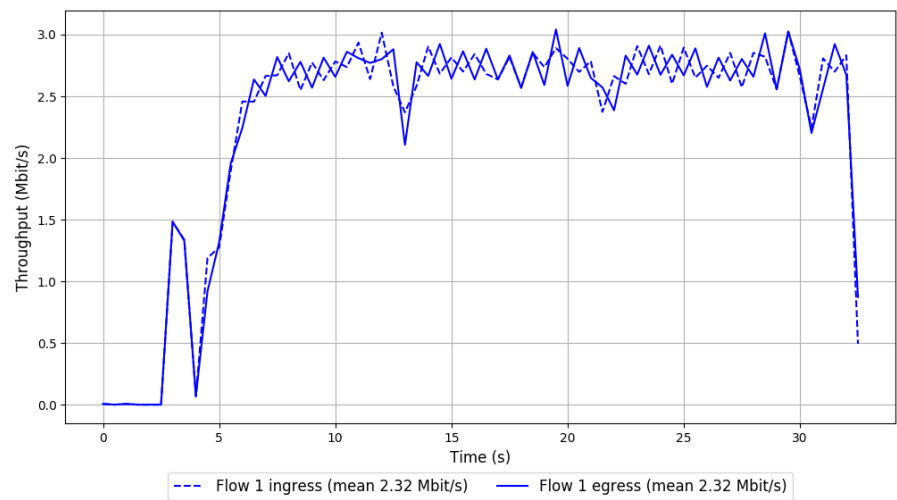
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.032 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-20 04:12:50

End at: 2018-02-20 04:13:21

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 50.461 ms

Loss rate: 0.00%

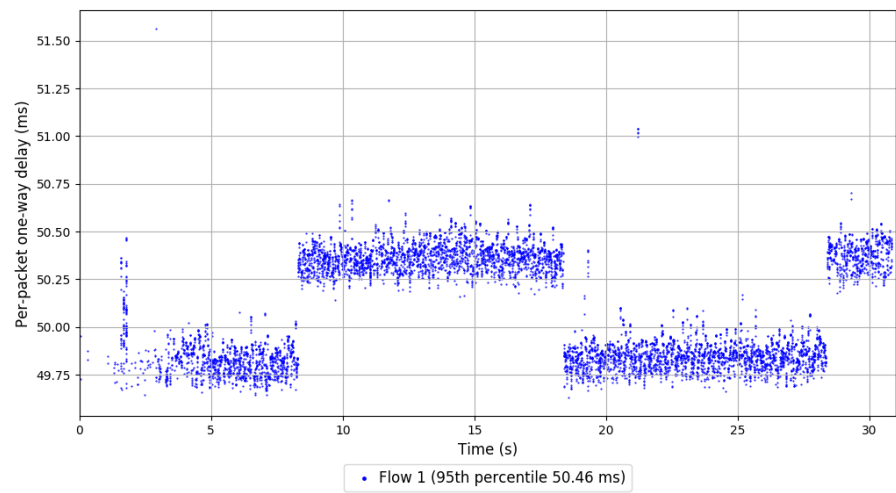
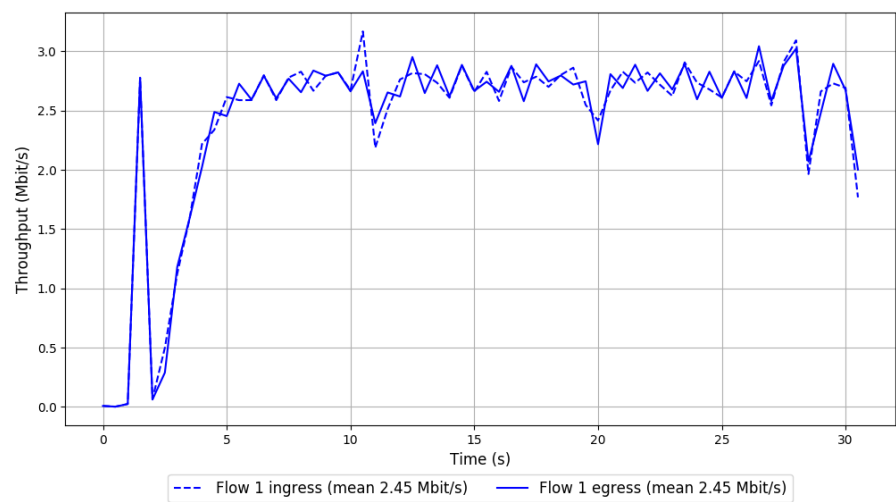
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 50.461 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-20 04:27:48

End at: 2018-02-20 04:28:18

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 50.327 ms

Loss rate: 0.00%

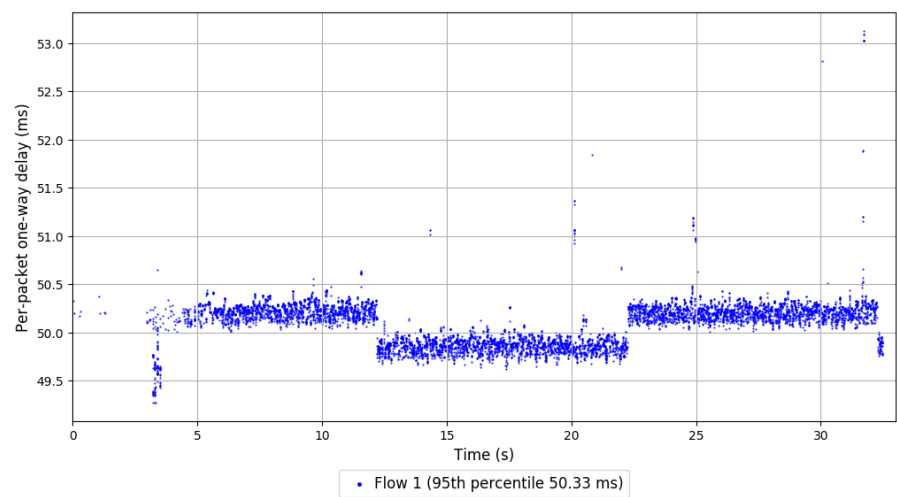
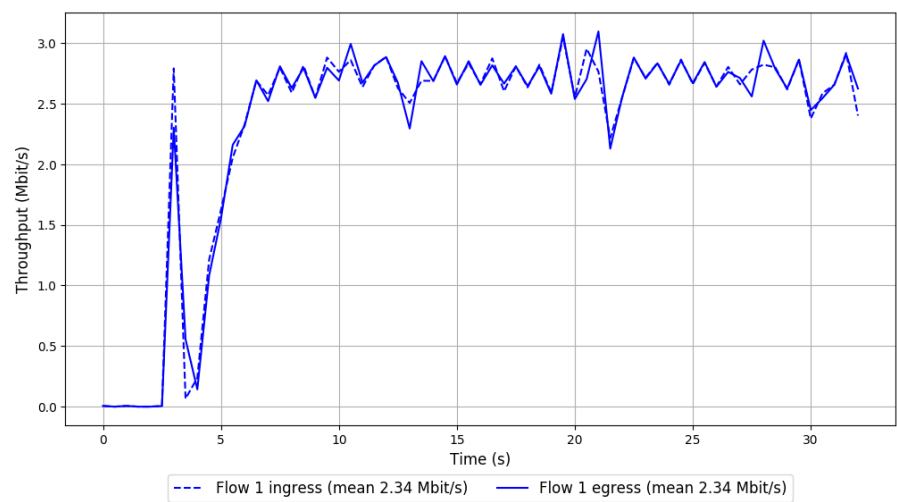
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 50.327 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-20 04:42:36

End at: 2018-02-20 04:43:06

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.881 ms

Loss rate: 0.00%

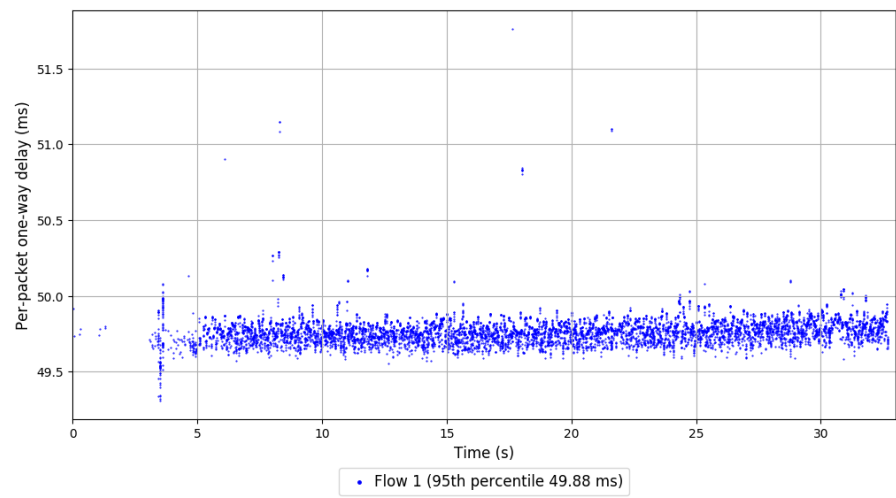
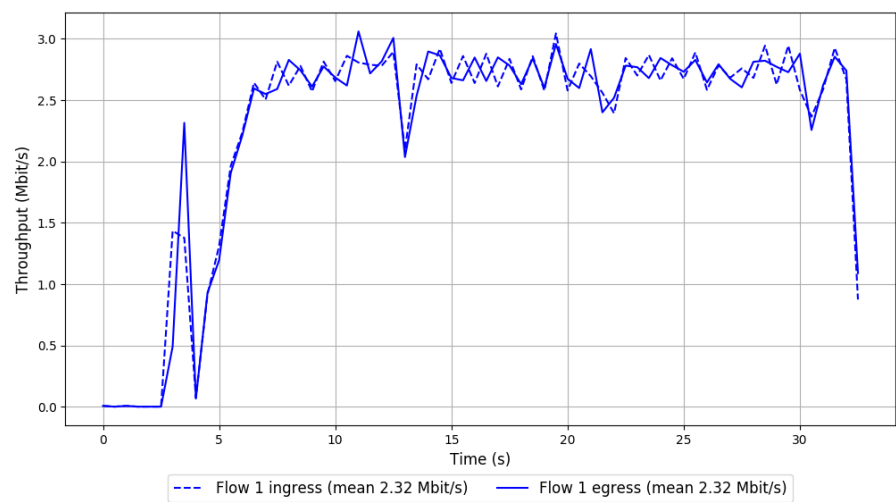
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.881 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-20 04:57:30

End at: 2018-02-20 04:58:00

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 49.745 ms

Loss rate: 0.00%

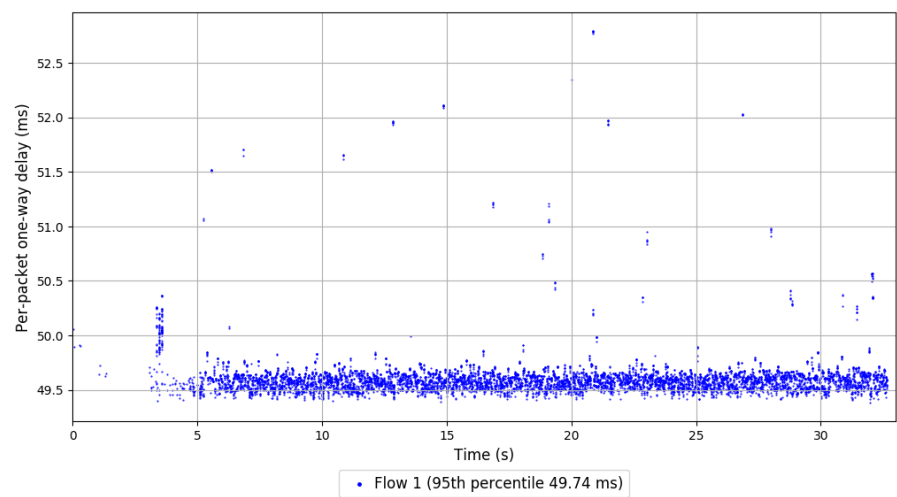
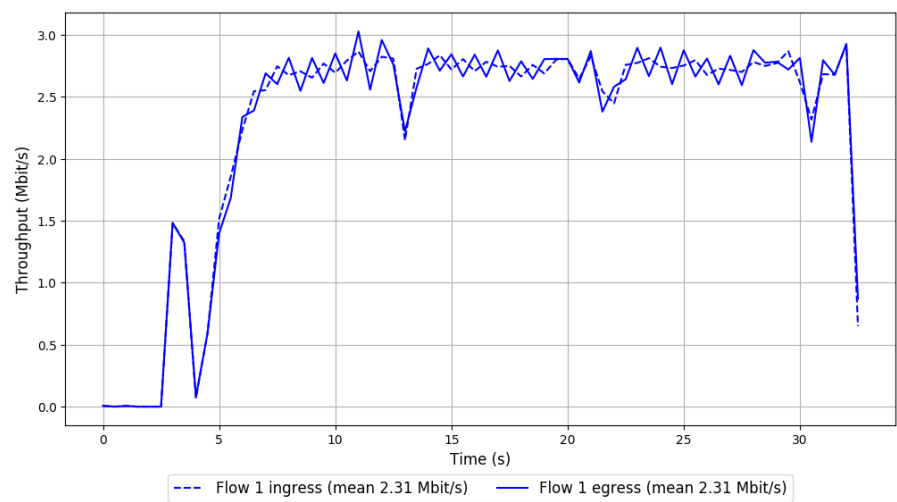
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 49.745 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-20 05:12:31

End at: 2018-02-20 05:13:01

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

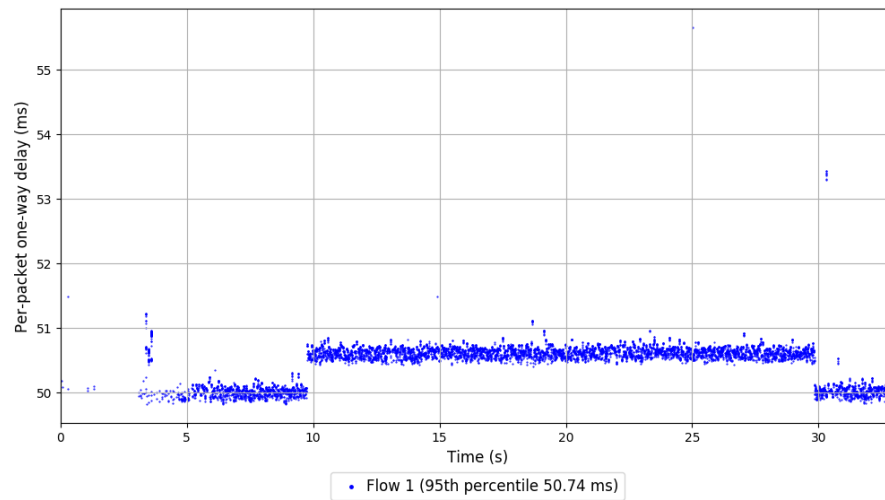
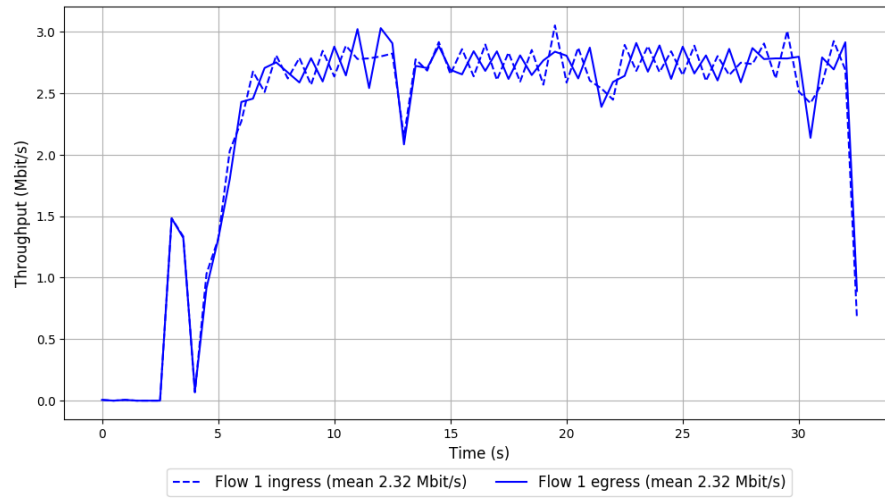
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-20 05:27:22

End at: 2018-02-20 05:27:52

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.234 ms

Loss rate: 0.00%

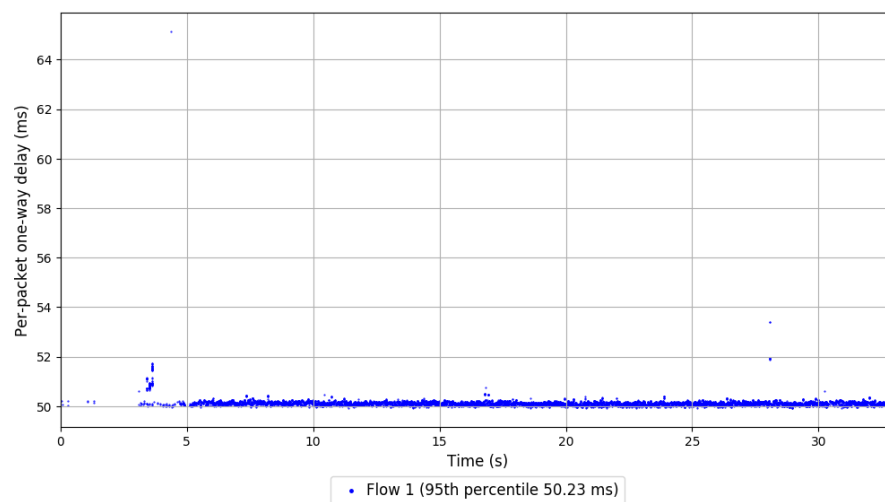
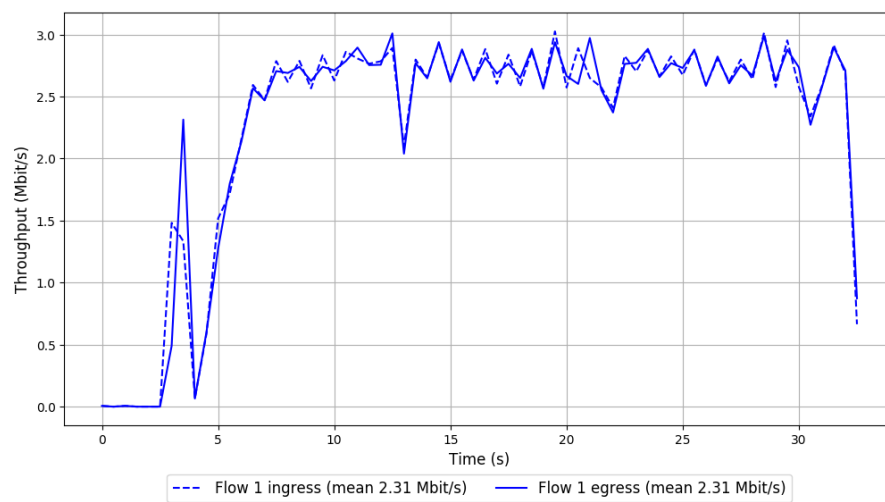
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.234 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-20 05:42:15

End at: 2018-02-20 05:42:45

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.753 ms

Loss rate: 0.00%

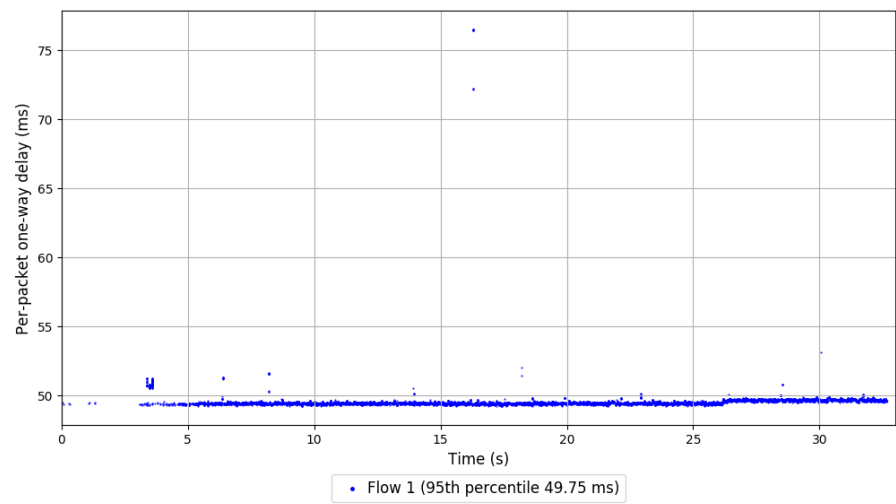
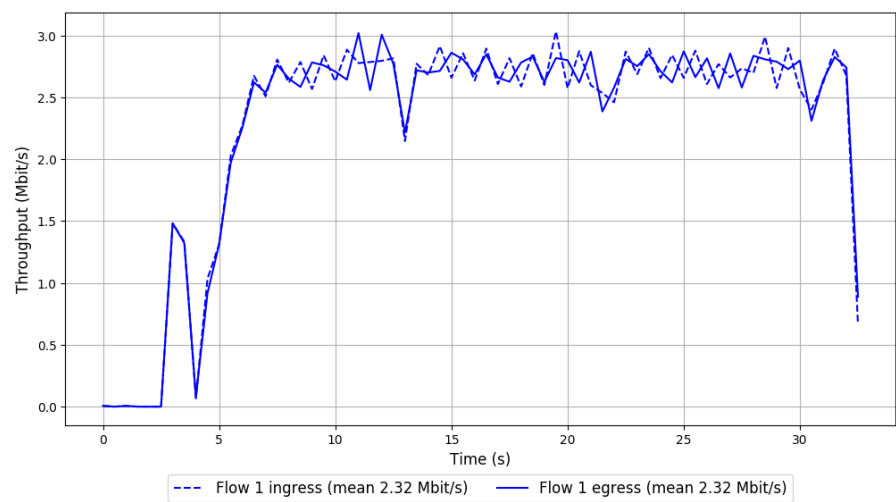
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.753 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-20 03:29:42

End at: 2018-02-20 03:30:12

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

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

Loss rate: 0.00%

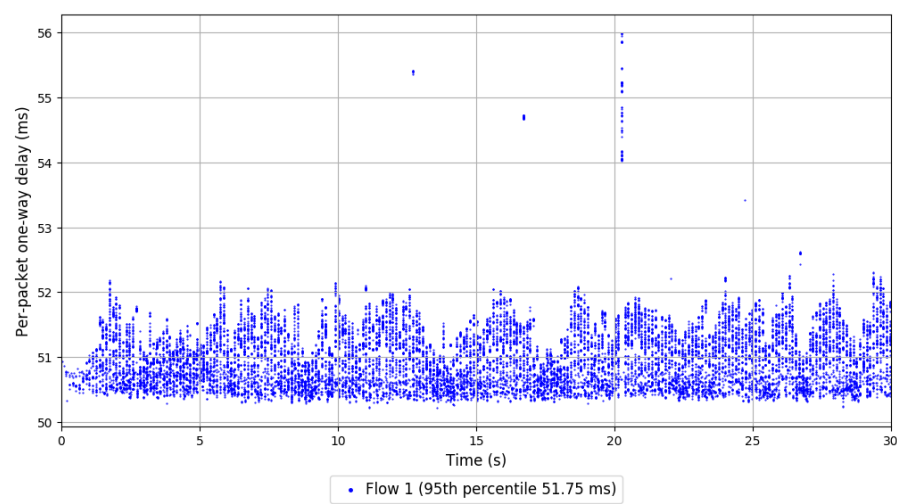
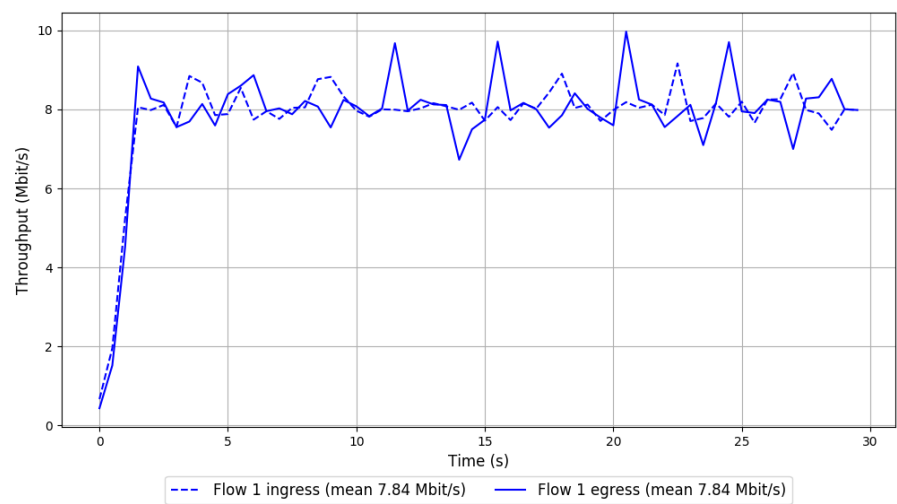
-- Flow 1:

Average throughput: 7.84 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-20 03:44:20

End at: 2018-02-20 03:44:50

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.741 ms

Loss rate: 0.00%

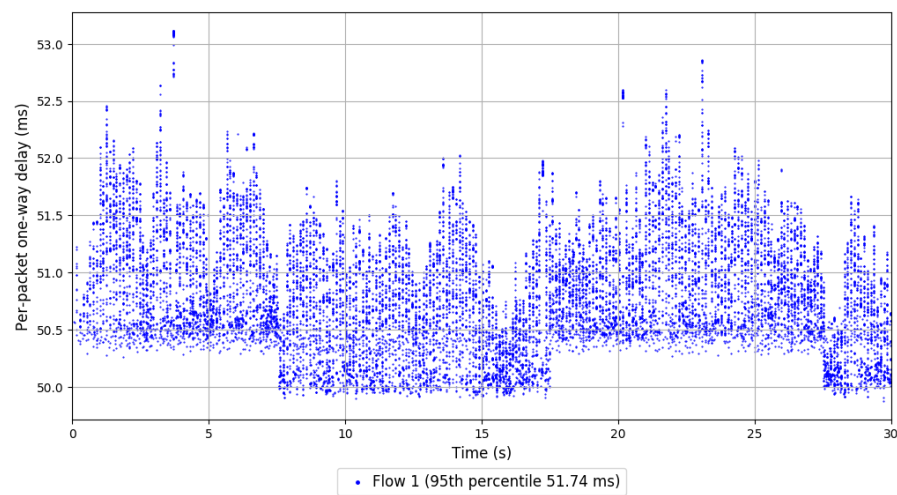
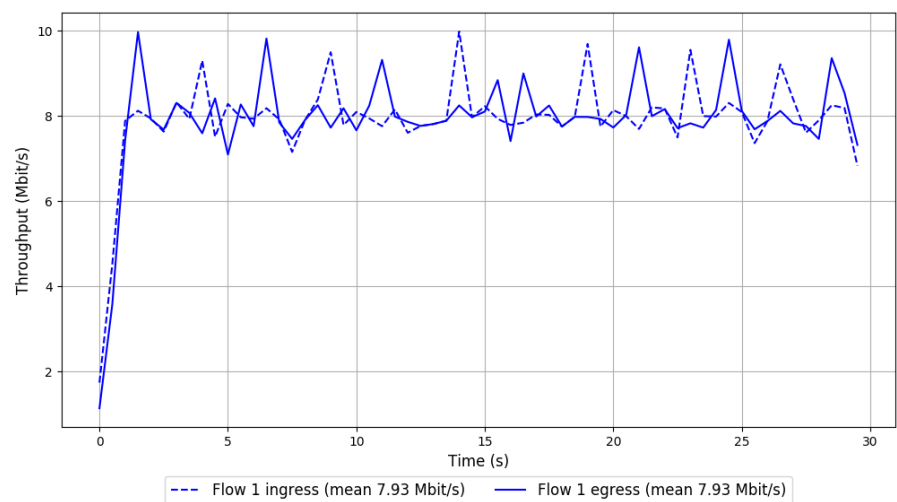
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.741 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-20 03:59:12

End at: 2018-02-20 03:59:42

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.080 ms

Loss rate: 0.00%

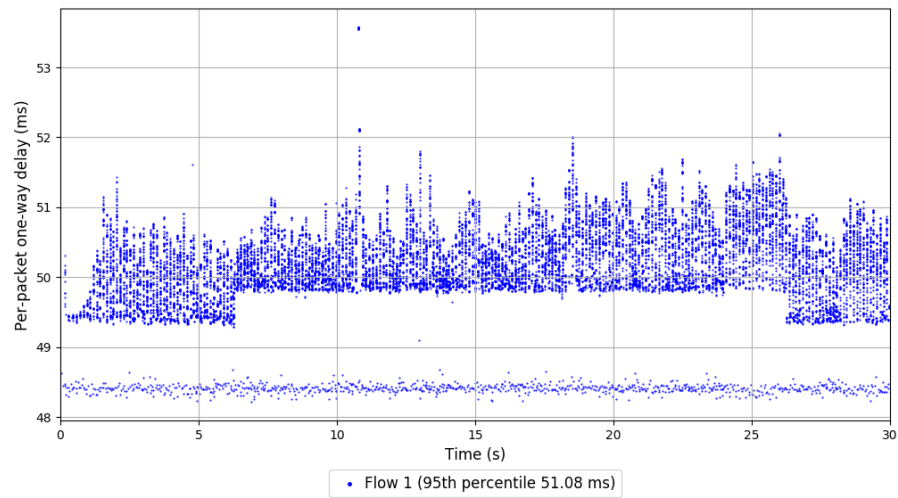
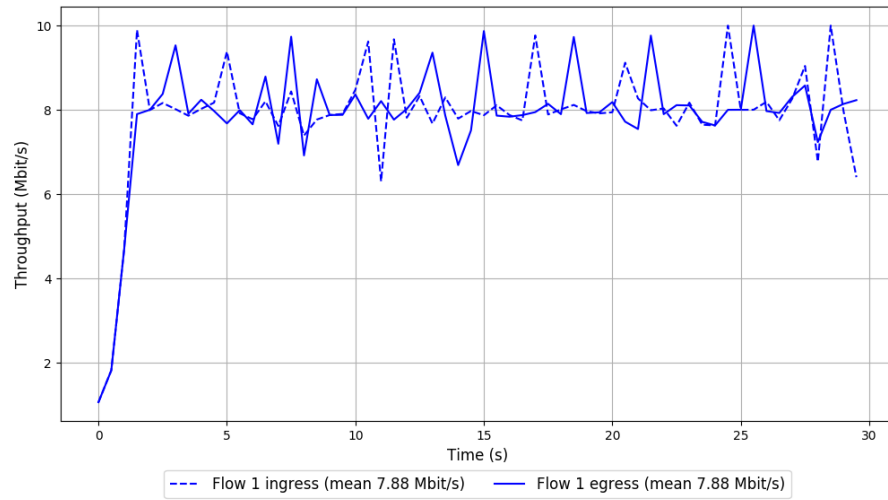
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.080 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-20 04:14:15

End at: 2018-02-20 04:14:45

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.414 ms

Loss rate: 0.00%

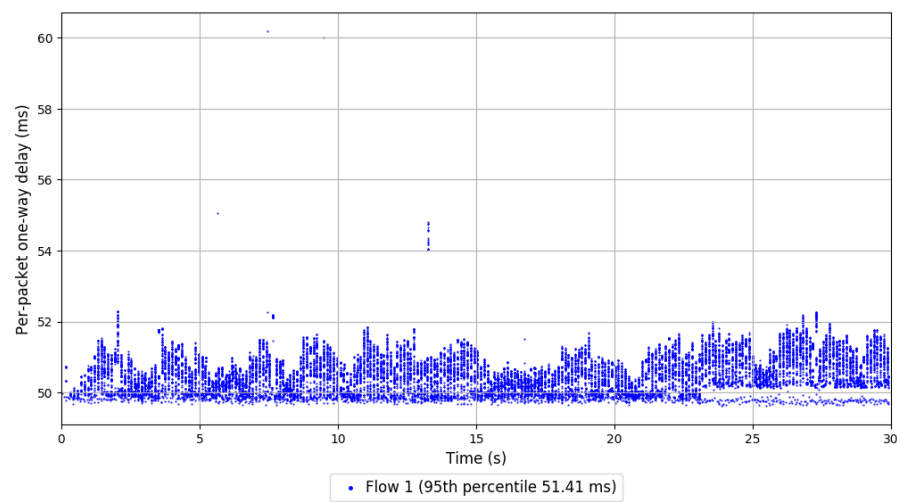
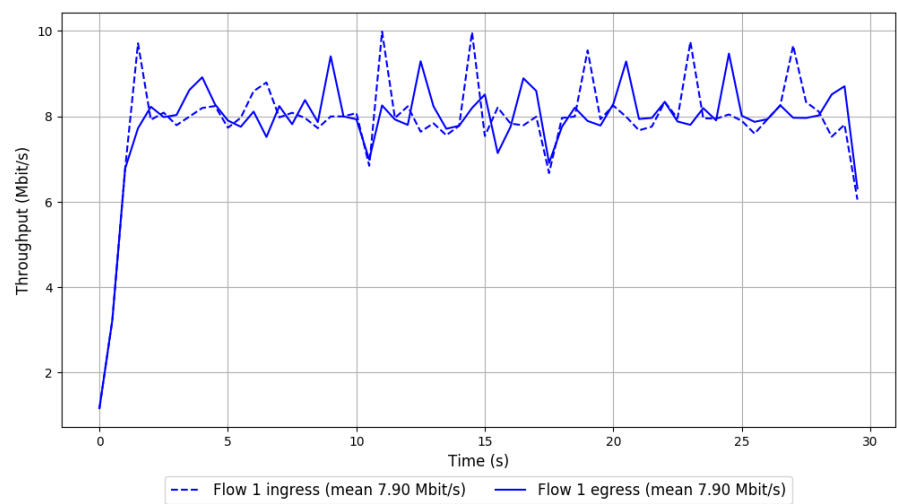
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.414 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-20 04:29:08

End at: 2018-02-20 04:29:38

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.196 ms

Loss rate: 0.00%

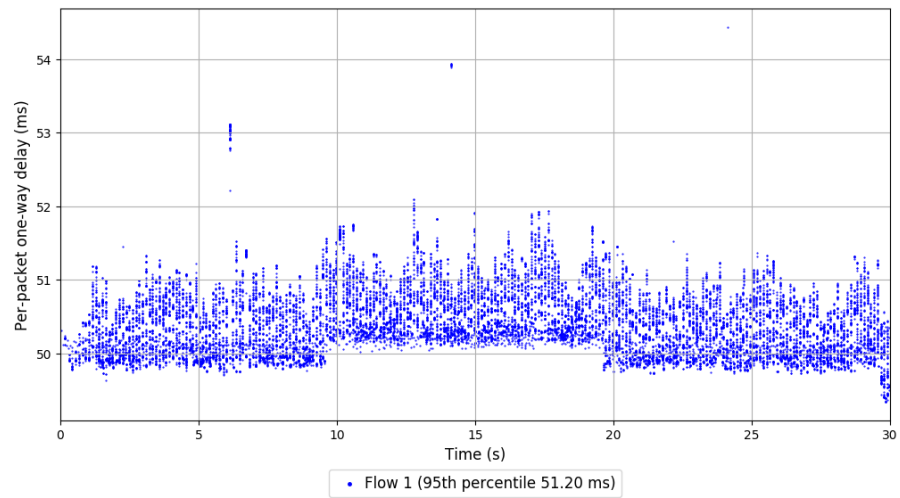
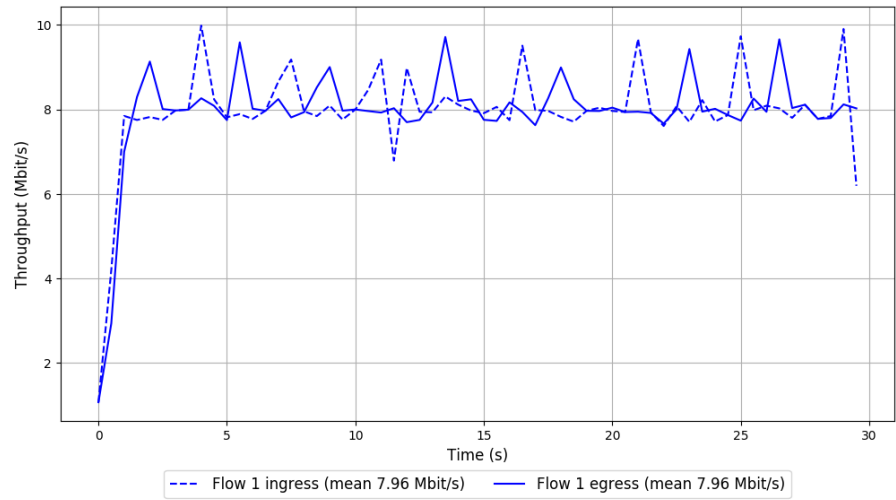
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.196 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-20 04:43:57

End at: 2018-02-20 04:44:27

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.561 ms

Loss rate: 0.00%

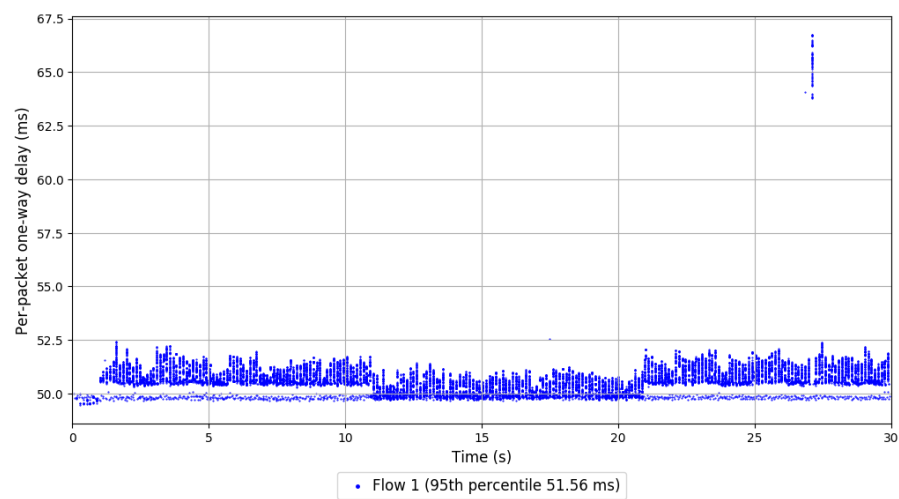
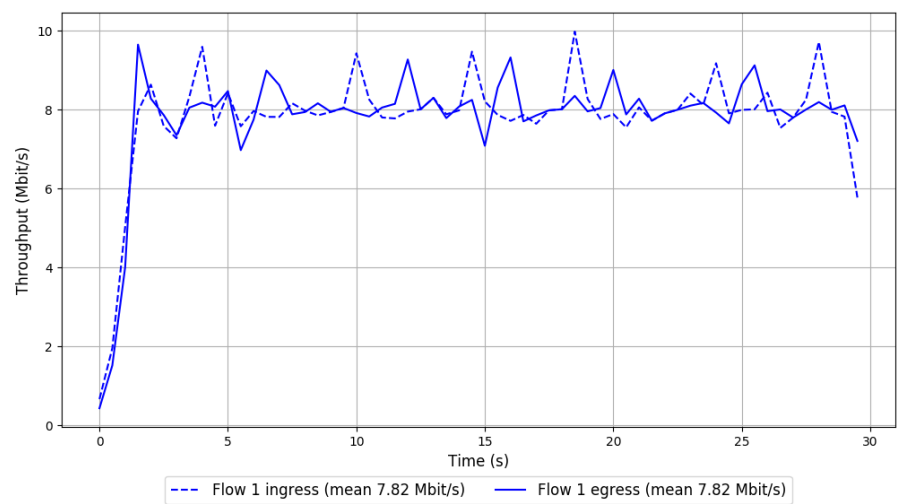
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.561 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-20 04:58:55

End at: 2018-02-20 04:59:25

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 0.00%

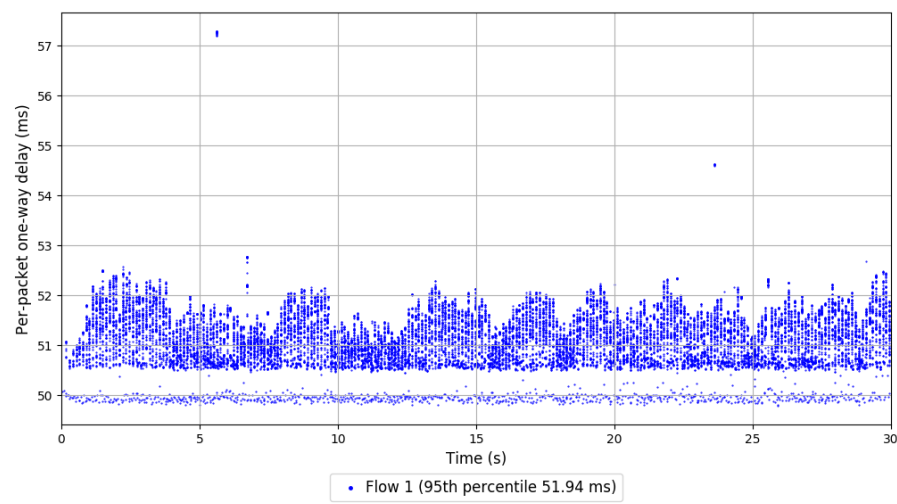
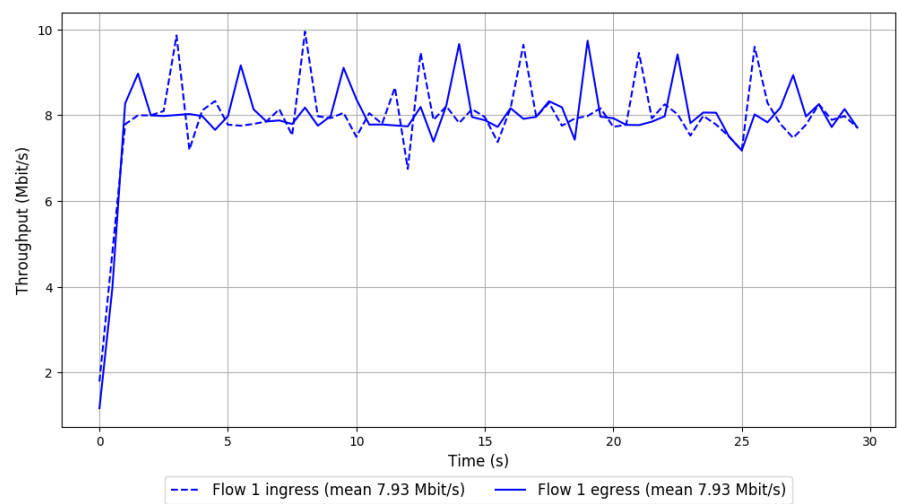
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.943 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-20 05:13:53

End at: 2018-02-20 05:14:23

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.659 ms

Loss rate: 0.00%

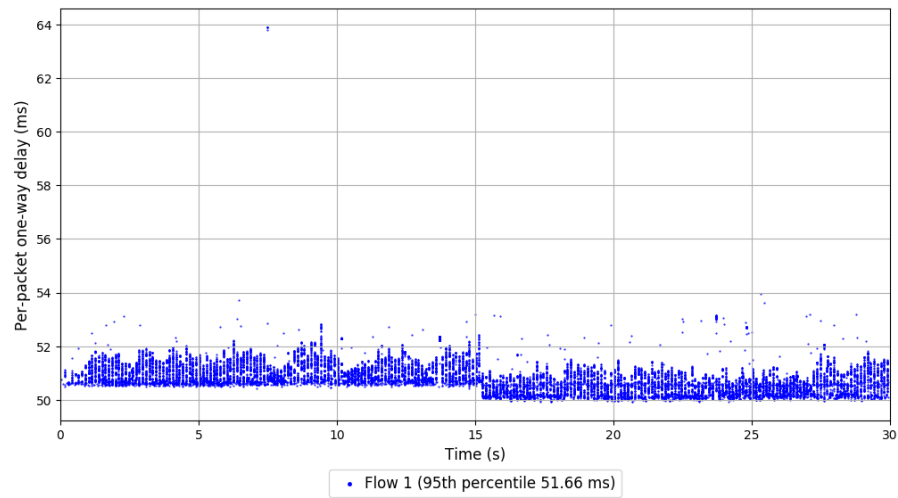
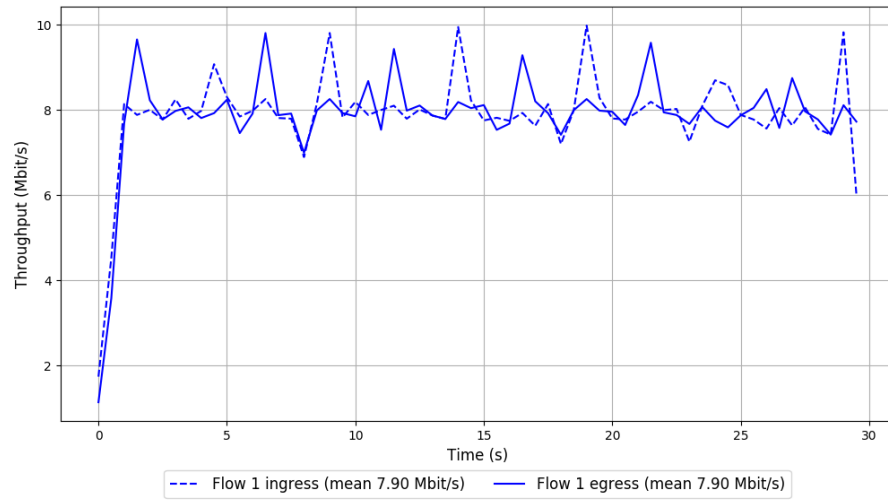
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.659 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-20 05:28:47

End at: 2018-02-20 05:29:17

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.611 ms

Loss rate: 0.00%

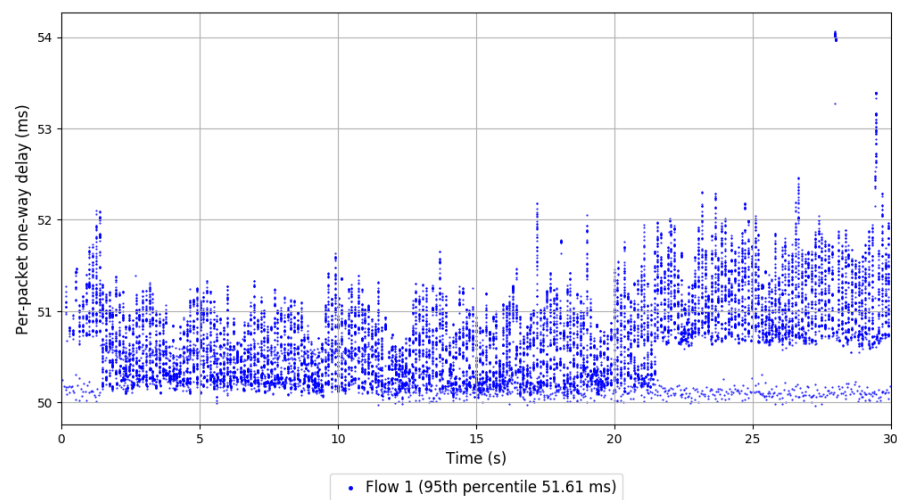
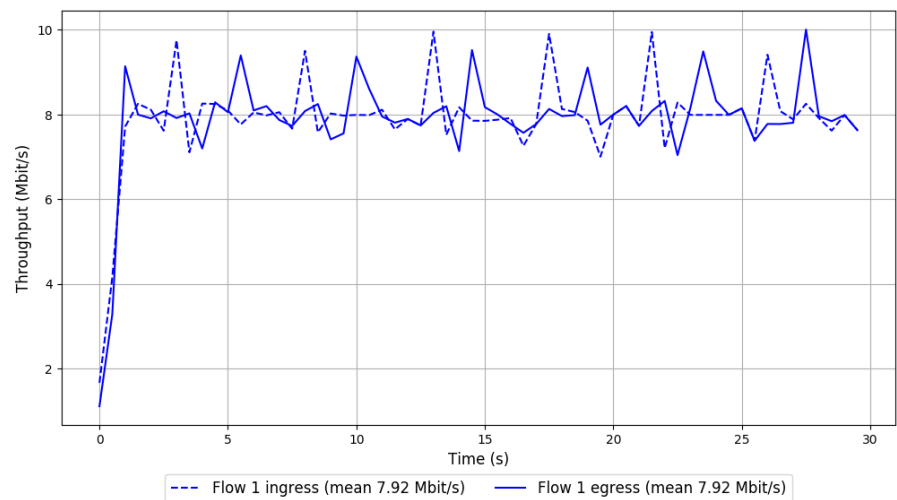
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.611 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-20 05:43:36

End at: 2018-02-20 05:44:06

Below is generated by plot.py at 2018-02-20 07:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

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

Loss rate: 0.00%

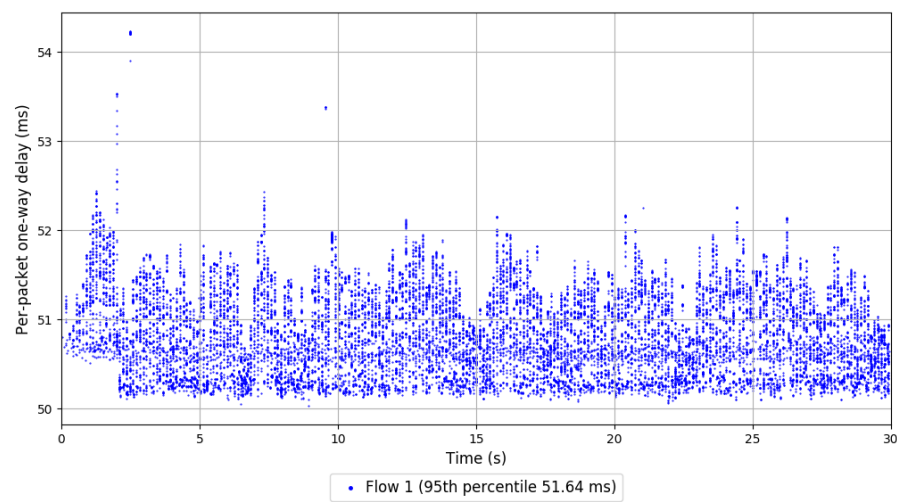
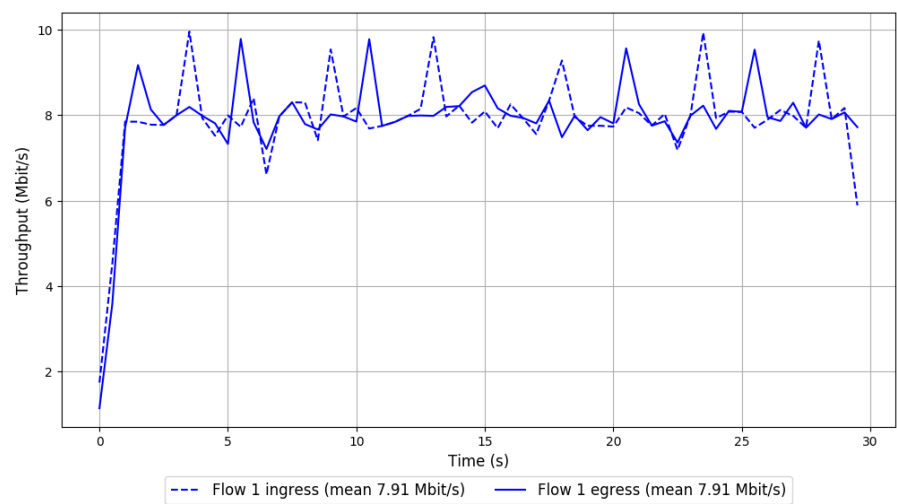
-- Flow 1:

Average throughput: 7.91 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

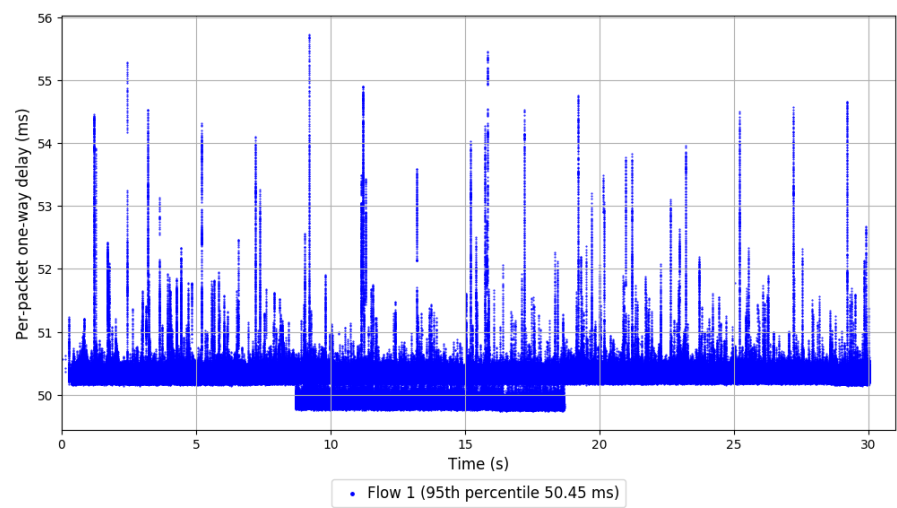
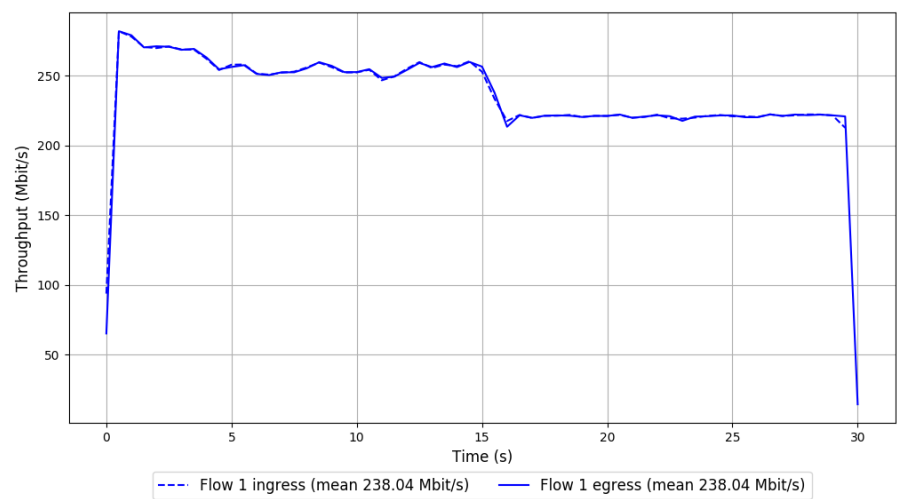


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-20 03:26:29
End at: 2018-02-20 03:26:59

# Below is generated by plot.py at 2018-02-20 07:59:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.04 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.04 Mbit/s
95th percentile per-packet one-way delay: 50.450 ms
Loss rate: 0.00%
```


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

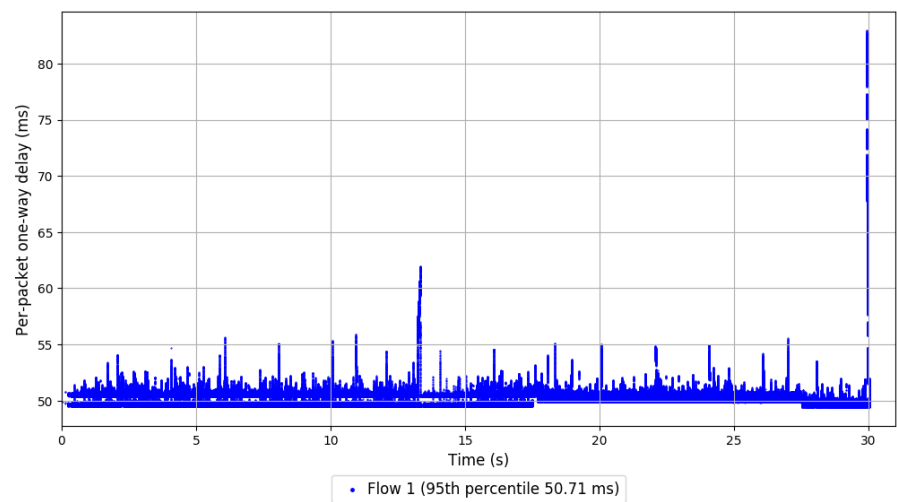
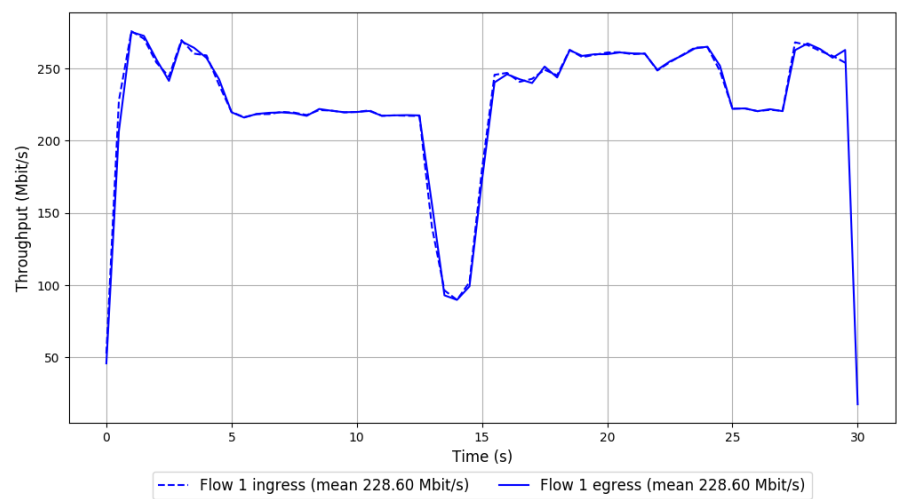


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-20 03:41:10
End at: 2018-02-20 03:41:41

# Below is generated by plot.py at 2018-02-20 07:59:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.60 Mbit/s
95th percentile per-packet one-way delay: 50.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.60 Mbit/s
95th percentile per-packet one-way delay: 50.708 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-20 03:55:59

End at: 2018-02-20 03:56:29

Below is generated by plot.py at 2018-02-20 08:00:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.96 Mbit/s

95th percentile per-packet one-way delay: 50.495 ms

Loss rate: 0.00%

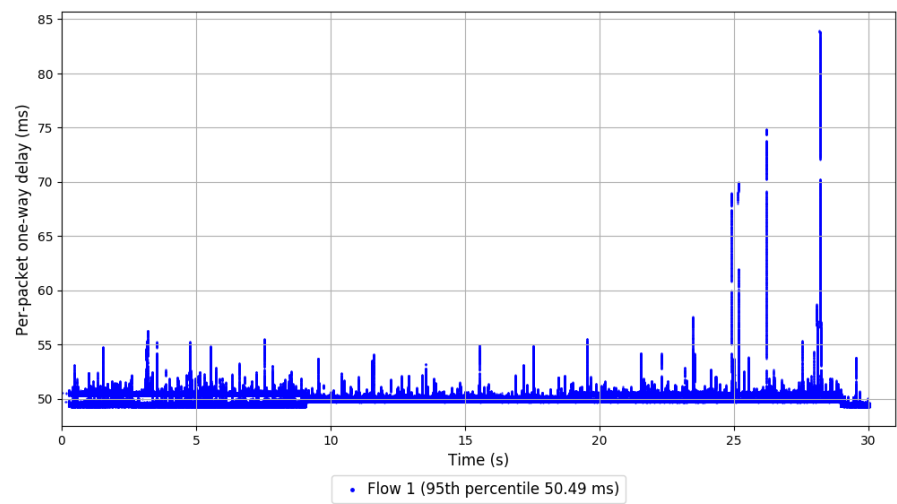
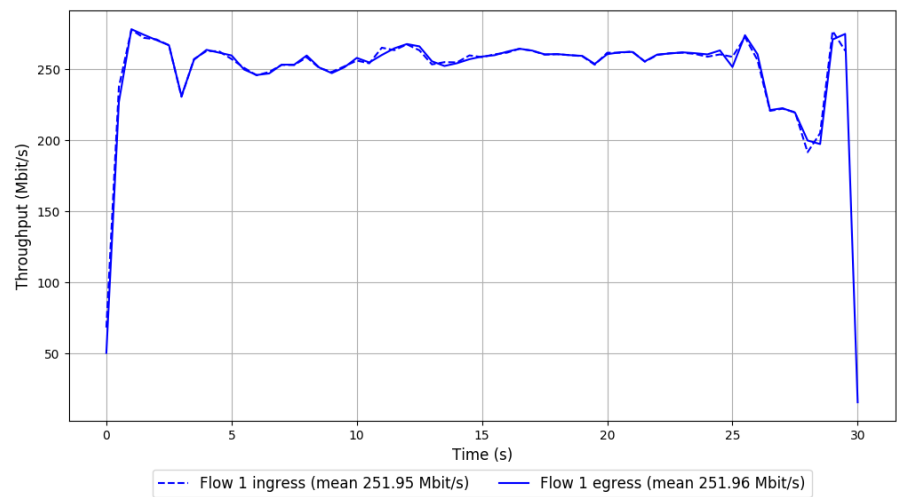
-- Flow 1:

Average throughput: 251.96 Mbit/s

95th percentile per-packet one-way delay: 50.495 ms

Loss rate: 0.00%

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

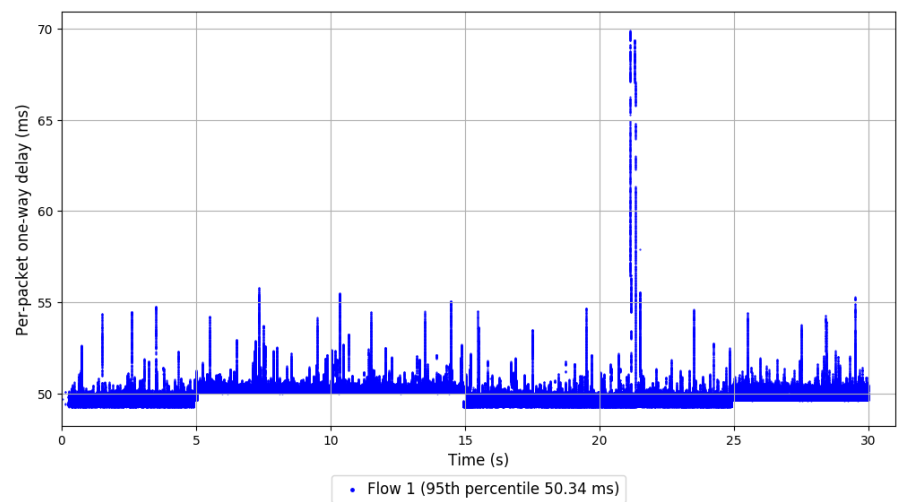
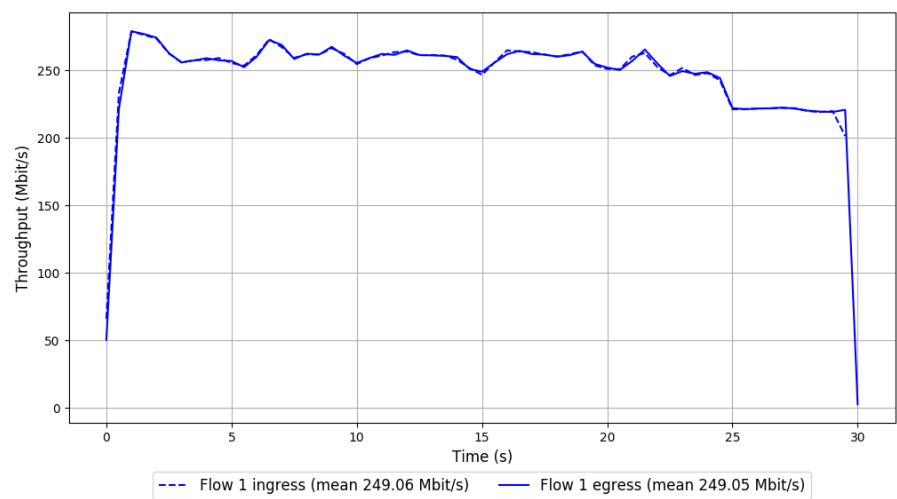


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-20 04:11:03
End at: 2018-02-20 04:11:33

# Below is generated by plot.py at 2018-02-20 08:00:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.05 Mbit/s
95th percentile per-packet one-way delay: 50.339 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 249.05 Mbit/s
95th percentile per-packet one-way delay: 50.339 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-20 04:26:00

End at: 2018-02-20 04:26:30

Below is generated by plot.py at 2018-02-20 08:00:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.36 Mbit/s

95th percentile per-packet one-way delay: 50.302 ms

Loss rate: 0.00%

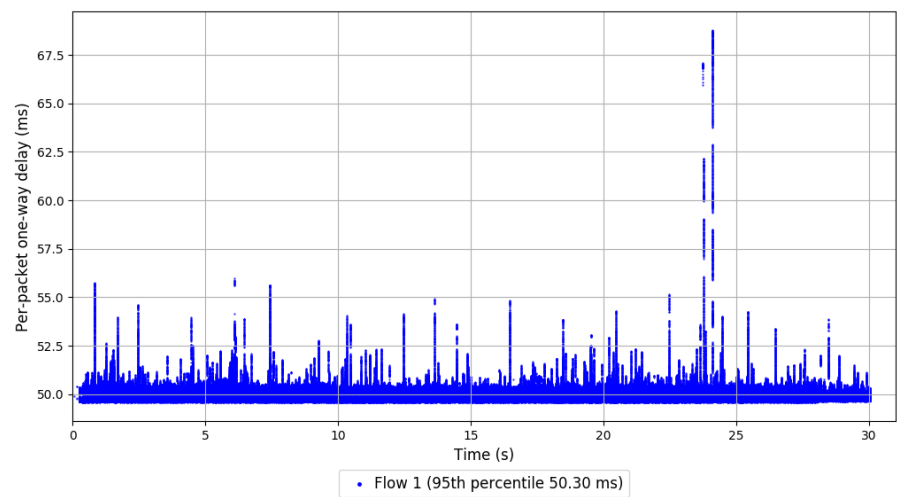
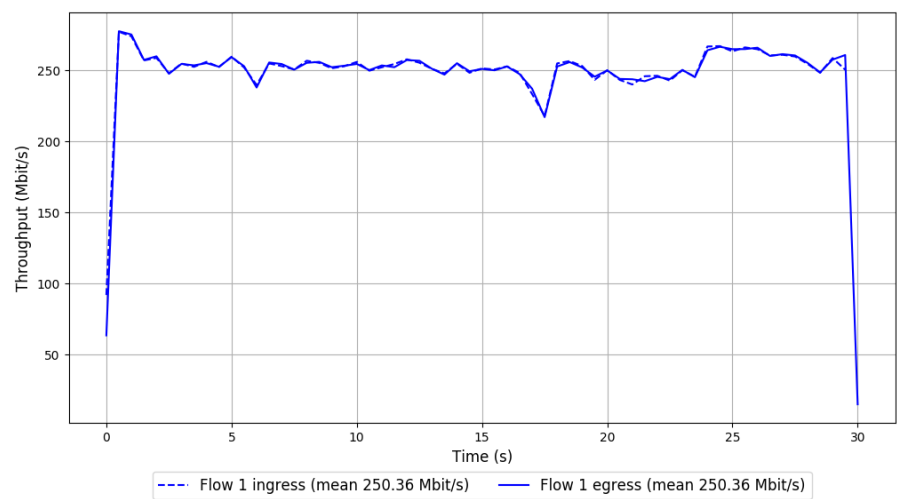
-- Flow 1:

Average throughput: 250.36 Mbit/s

95th percentile per-packet one-way delay: 50.302 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-20 04:40:47

End at: 2018-02-20 04:41:17

Below is generated by plot.py at 2018-02-20 08:00:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.24 Mbit/s

95th percentile per-packet one-way delay: 50.418 ms

Loss rate: 0.00%

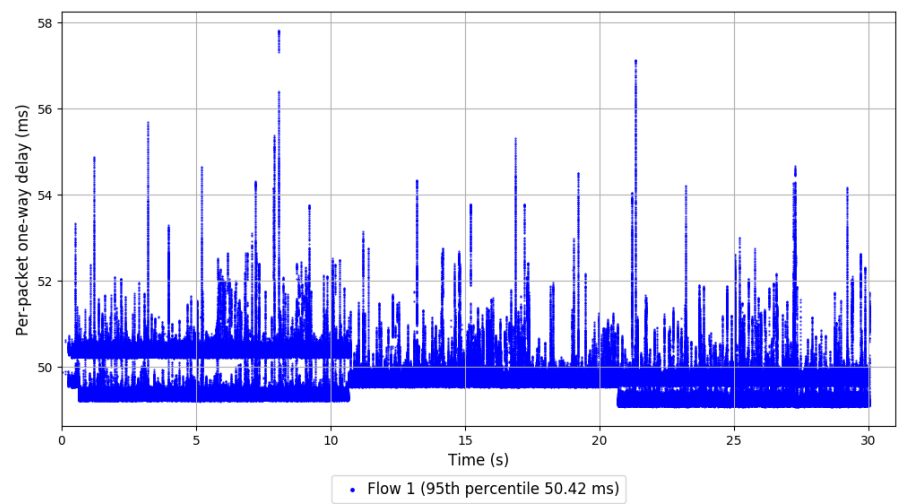
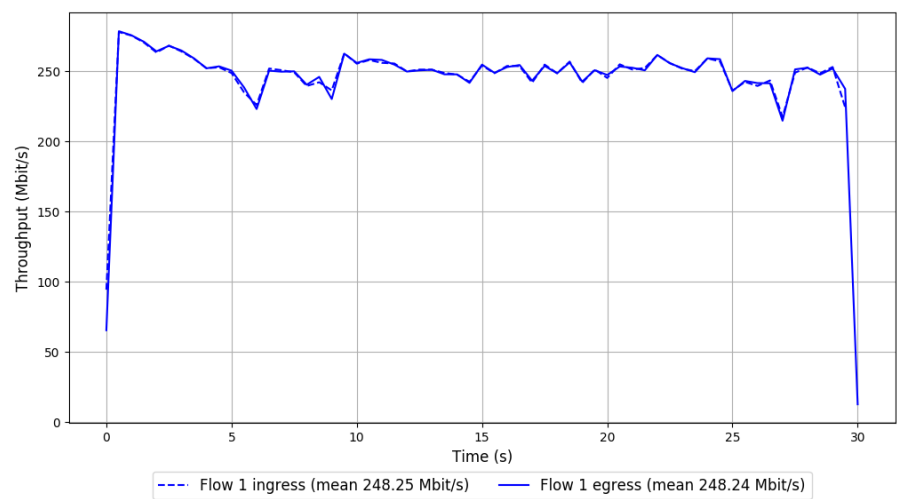
-- Flow 1:

Average throughput: 248.24 Mbit/s

95th percentile per-packet one-way delay: 50.418 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-20 04:55:43

End at: 2018-02-20 04:56:13

Below is generated by plot.py at 2018-02-20 08:03:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.73 Mbit/s

95th percentile per-packet one-way delay: 50.561 ms

Loss rate: 0.00%

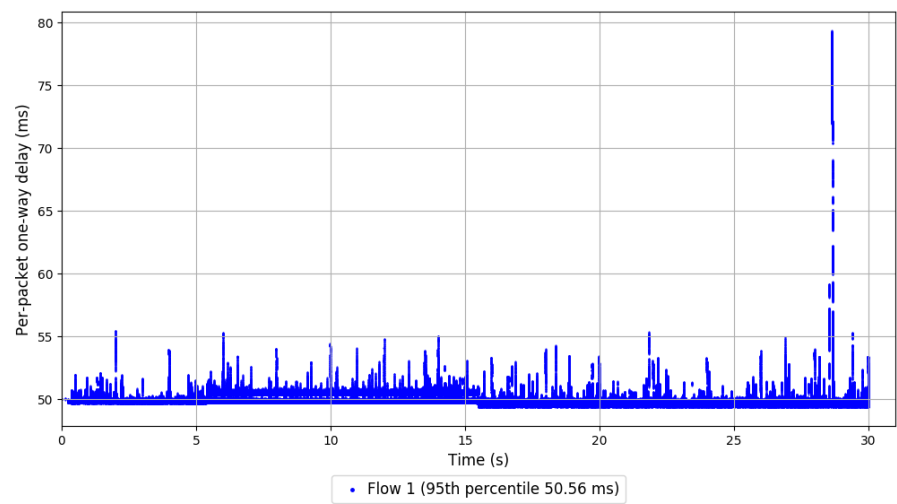
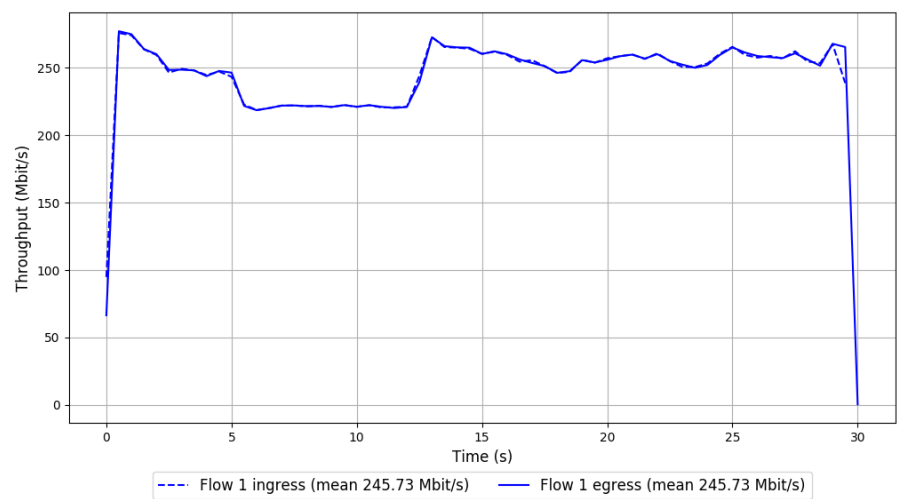
-- Flow 1:

Average throughput: 245.73 Mbit/s

95th percentile per-packet one-way delay: 50.561 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-20 05:10:43

End at: 2018-02-20 05:11:13

Below is generated by plot.py at 2018-02-20 08:04:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.81 Mbit/s

95th percentile per-packet one-way delay: 50.703 ms

Loss rate: 0.00%

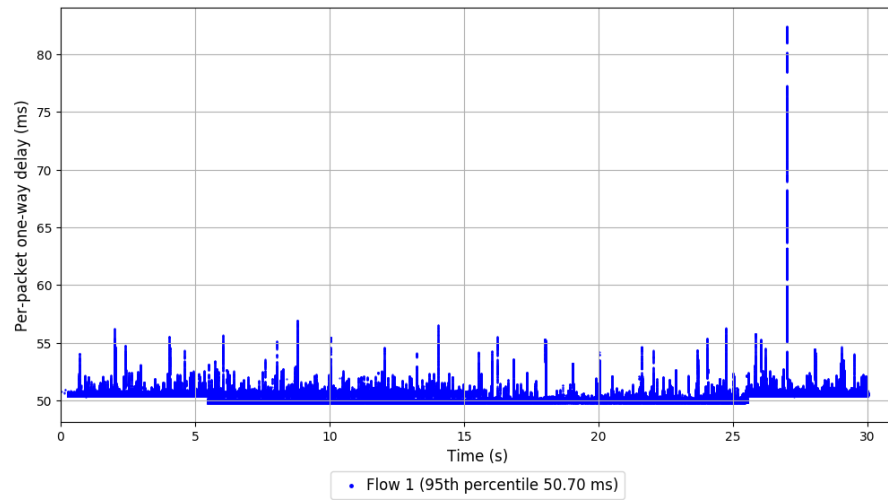
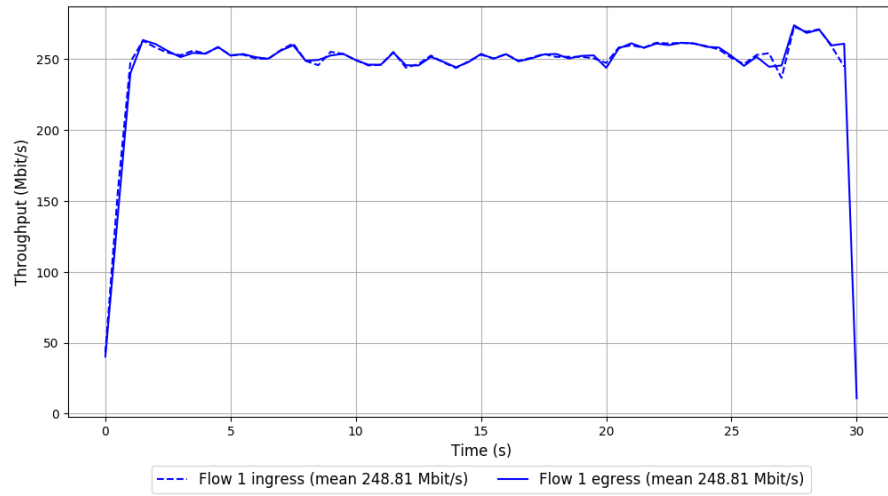
-- Flow 1:

Average throughput: 248.81 Mbit/s

95th percentile per-packet one-way delay: 50.703 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-20 05:25:36

End at: 2018-02-20 05:26:06

Below is generated by plot.py at 2018-02-20 08:07:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.58 Mbit/s

95th percentile per-packet one-way delay: 50.735 ms

Loss rate: 0.00%

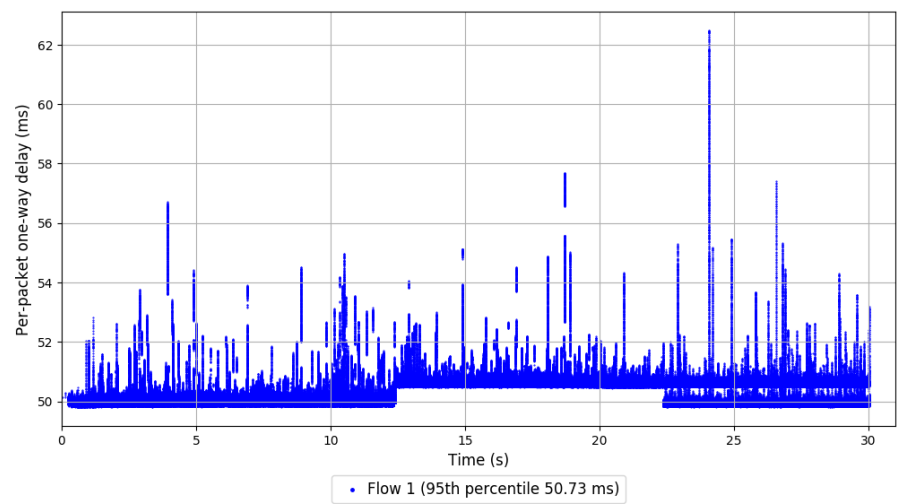
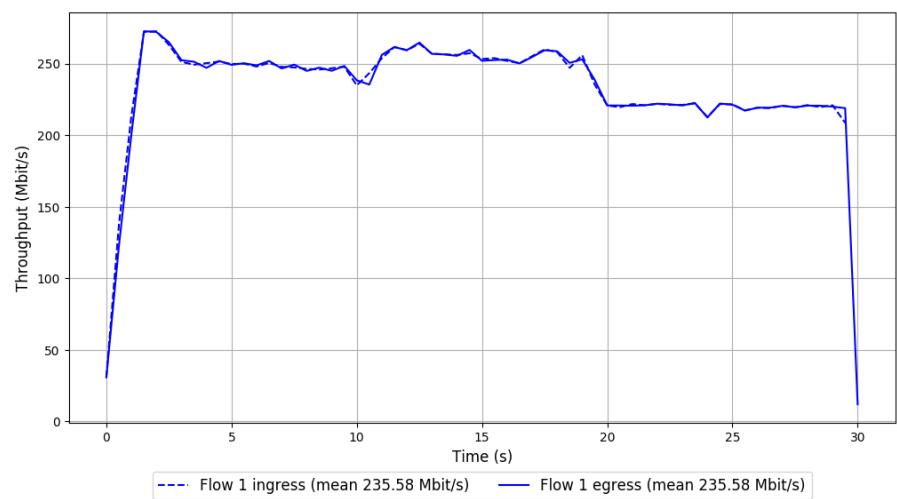
-- Flow 1:

Average throughput: 235.58 Mbit/s

95th percentile per-packet one-way delay: 50.735 ms

Loss rate: 0.00%

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

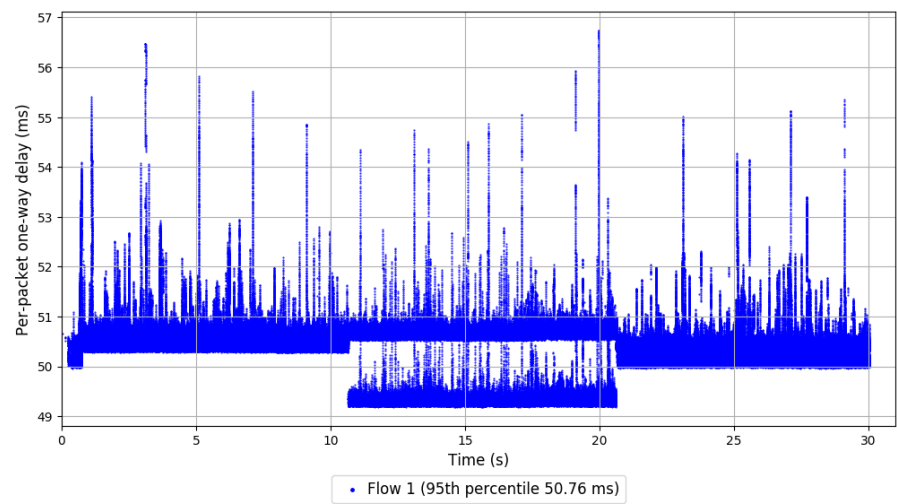
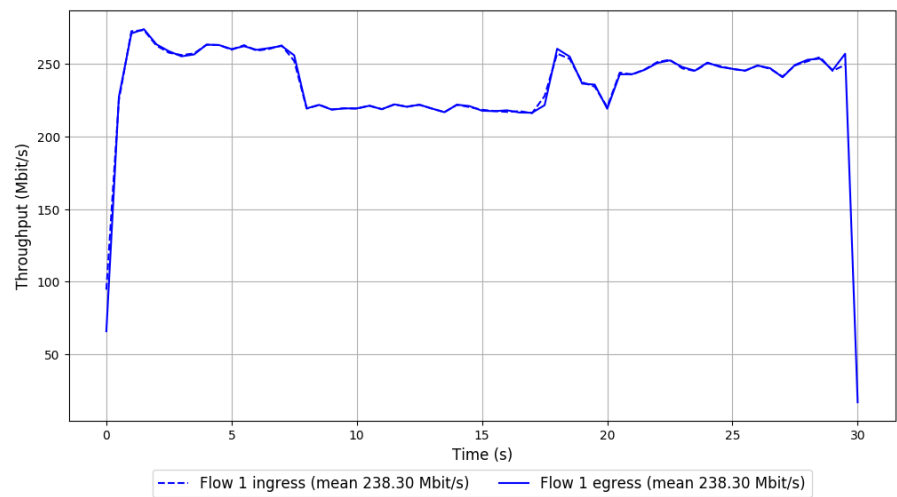


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-20 05:40:27
End at: 2018-02-20 05:40:57

# Below is generated by plot.py at 2018-02-20 08:07:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.30 Mbit/s
95th percentile per-packet one-way delay: 50.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.30 Mbit/s
95th percentile per-packet one-way delay: 50.764 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-20 03:23:14

End at: 2018-02-20 03:23:44

Below is generated by plot.py at 2018-02-20 08:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 51.090 ms

Loss rate: 0.00%

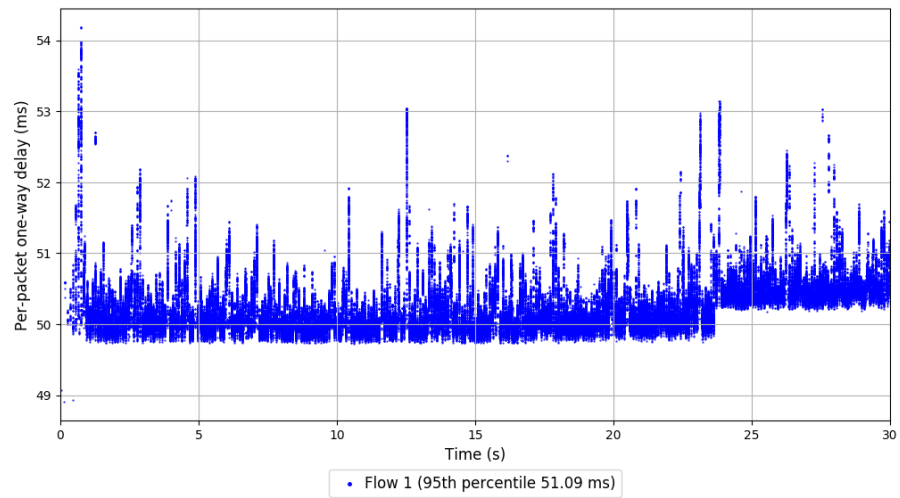
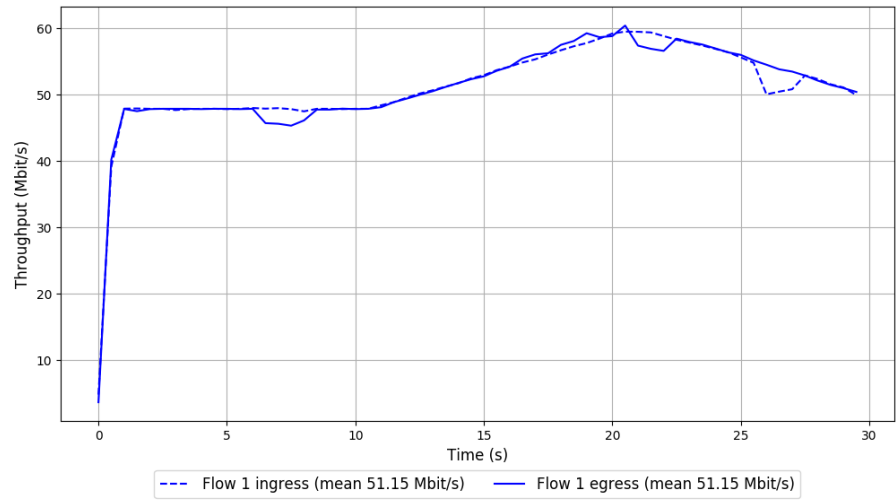
-- Flow 1:

Average throughput: 51.15 Mbit/s

95th percentile per-packet one-way delay: 51.090 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-20 03:37:56

End at: 2018-02-20 03:38:26

Below is generated by plot.py at 2018-02-20 08:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 59.456 ms

Loss rate: 0.00%

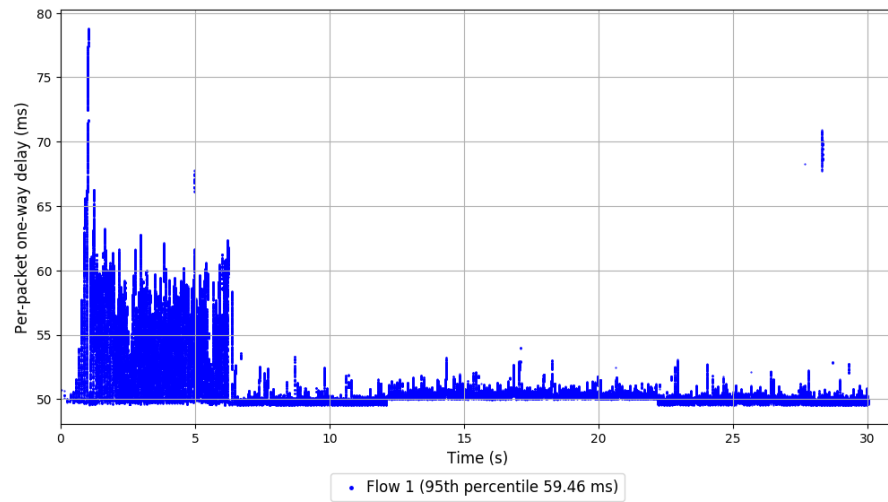
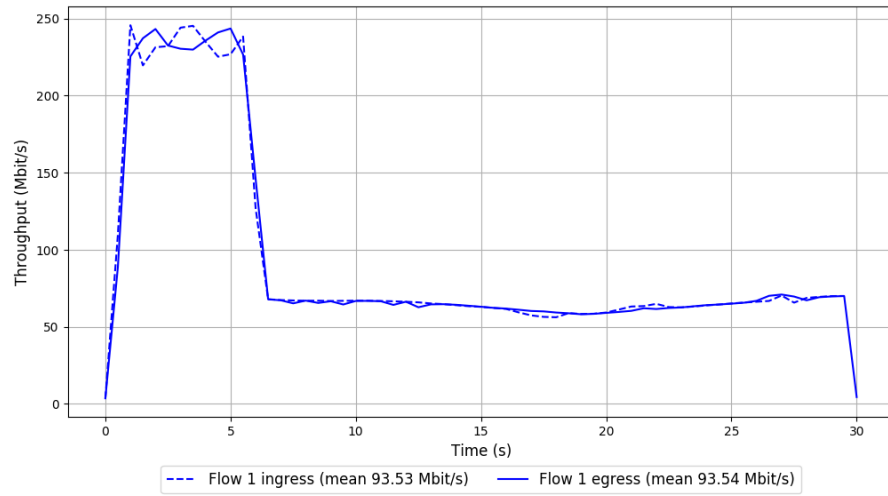
-- Flow 1:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 59.456 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-20 03:52:37

End at: 2018-02-20 03:53:07

Below is generated by plot.py at 2018-02-20 08:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.41 Mbit/s

95th percentile per-packet one-way delay: 60.030 ms

Loss rate: 0.00%

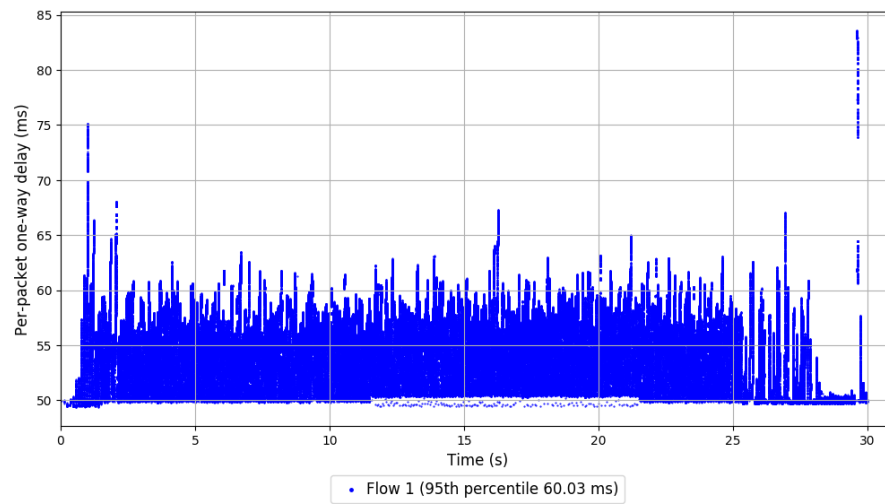
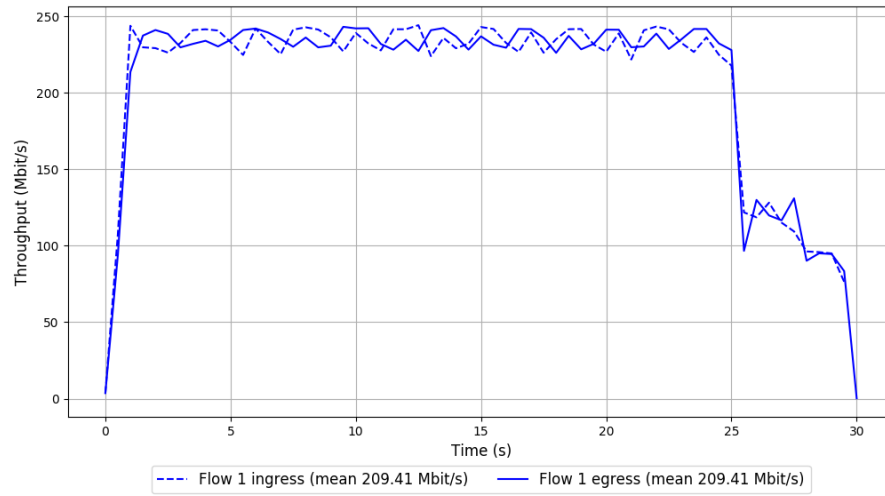
-- Flow 1:

Average throughput: 209.41 Mbit/s

95th percentile per-packet one-way delay: 60.030 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-20 04:07:38

End at: 2018-02-20 04:08:08

Below is generated by plot.py at 2018-02-20 08:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.23 Mbit/s

95th percentile per-packet one-way delay: 59.545 ms

Loss rate: 0.00%

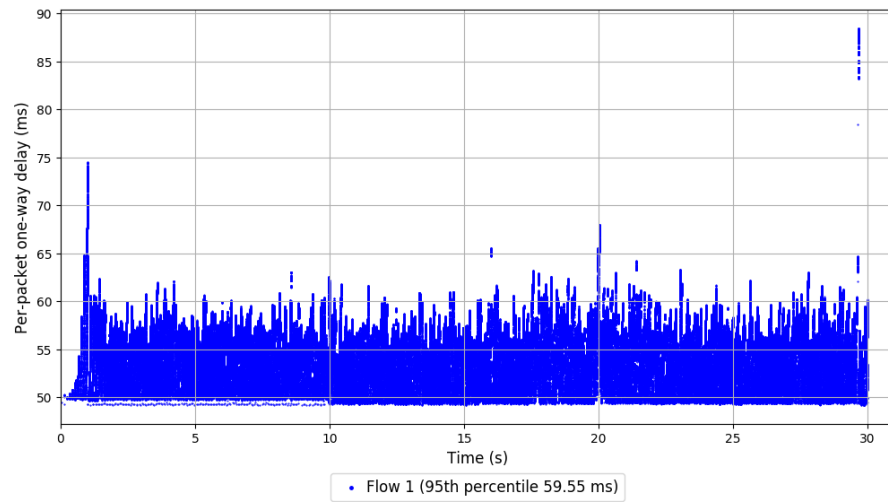
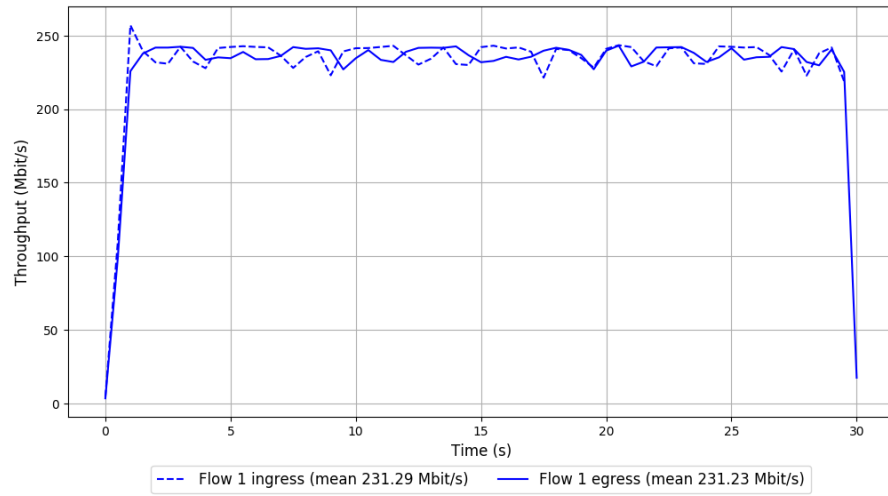
-- Flow 1:

Average throughput: 231.23 Mbit/s

95th percentile per-packet one-way delay: 59.545 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-20 04:22:36

End at: 2018-02-20 04:23:06

Below is generated by plot.py at 2018-02-20 08:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.35 Mbit/s

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

Loss rate: 0.00%

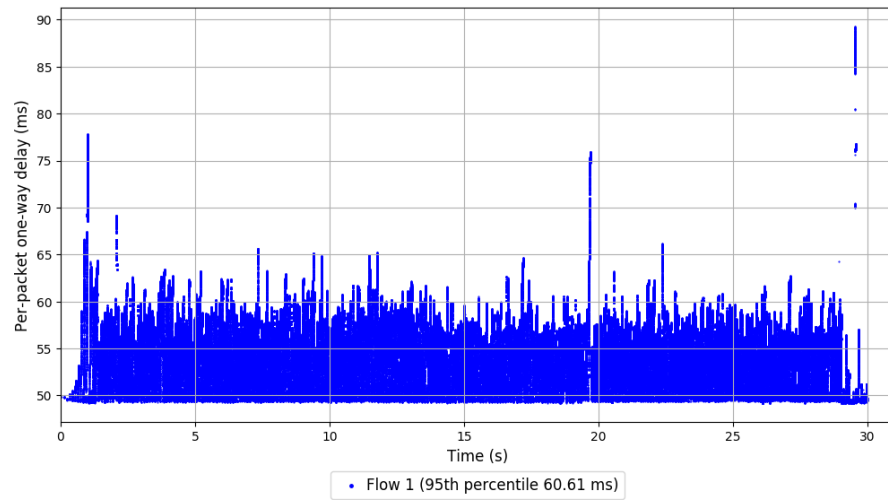
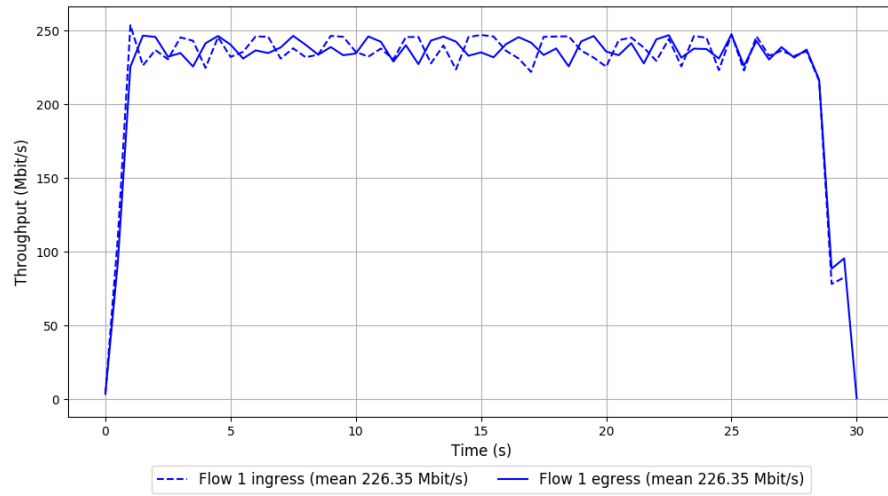
-- Flow 1:

Average throughput: 226.35 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-20 04:37:28

End at: 2018-02-20 04:37:58

Below is generated by plot.py at 2018-02-20 08:07:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.37 Mbit/s

95th percentile per-packet one-way delay: 51.383 ms

Loss rate: 0.00%

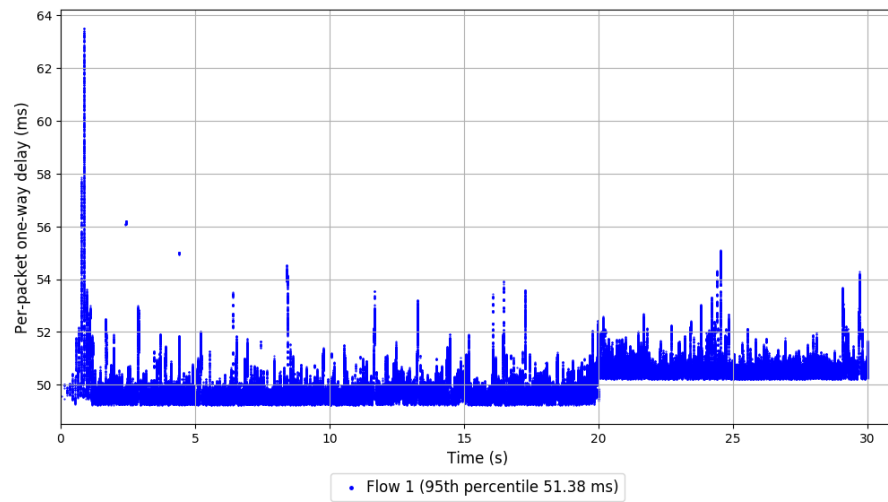
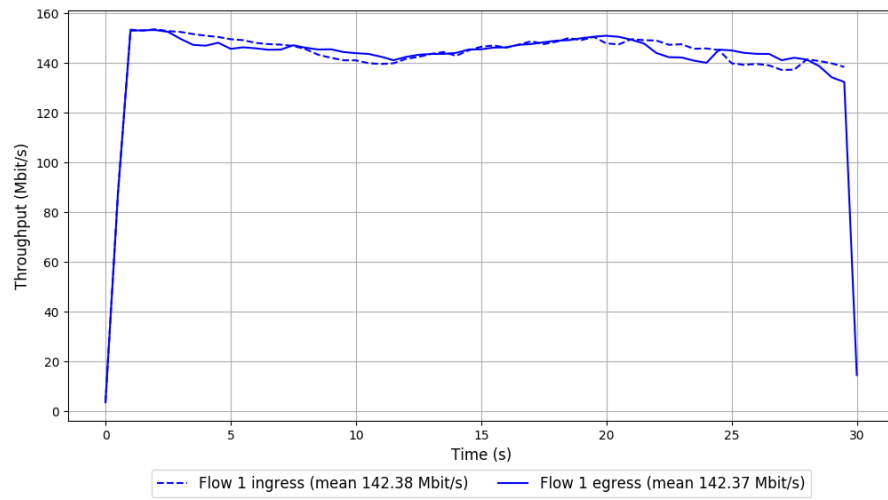
-- Flow 1:

Average throughput: 142.37 Mbit/s

95th percentile per-packet one-way delay: 51.383 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-20 04:52:20

End at: 2018-02-20 04:52:50

Below is generated by plot.py at 2018-02-20 08:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.91 Mbit/s

95th percentile per-packet one-way delay: 60.345 ms

Loss rate: 0.01%

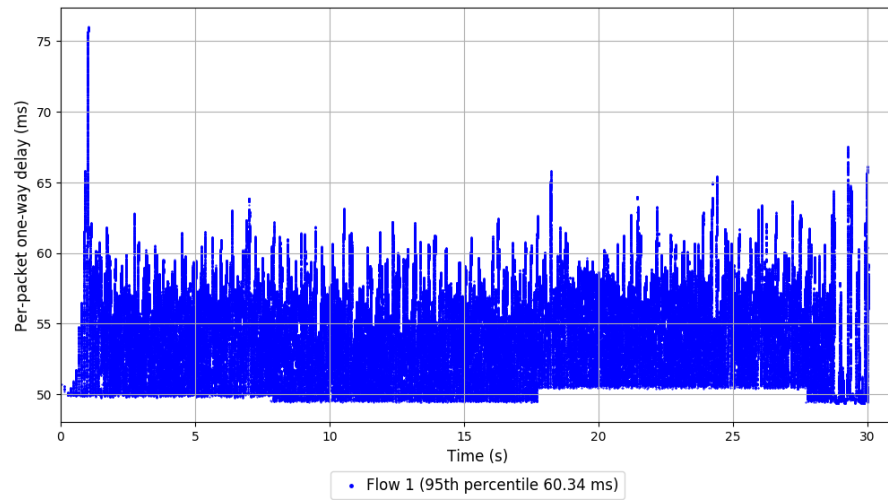
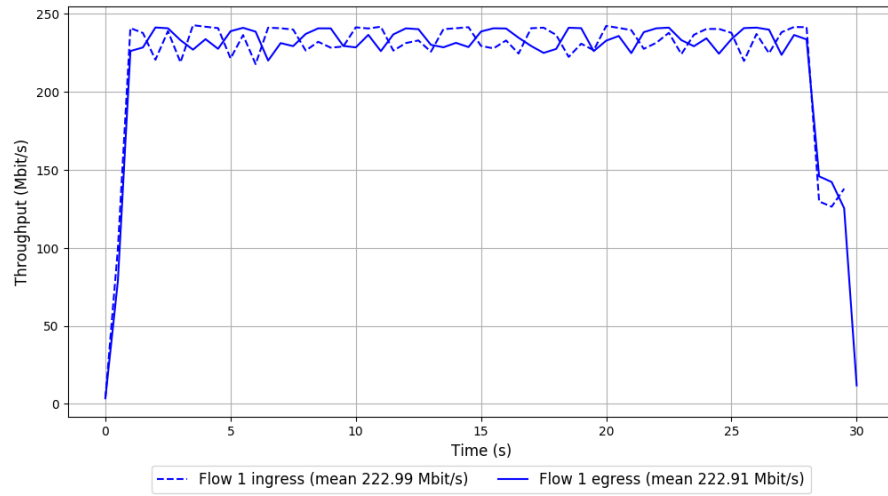
-- Flow 1:

Average throughput: 222.91 Mbit/s

95th percentile per-packet one-way delay: 60.345 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-20 05:07:20

End at: 2018-02-20 05:07:50

Below is generated by plot.py at 2018-02-20 08:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.80 Mbit/s

95th percentile per-packet one-way delay: 61.335 ms

Loss rate: 0.00%

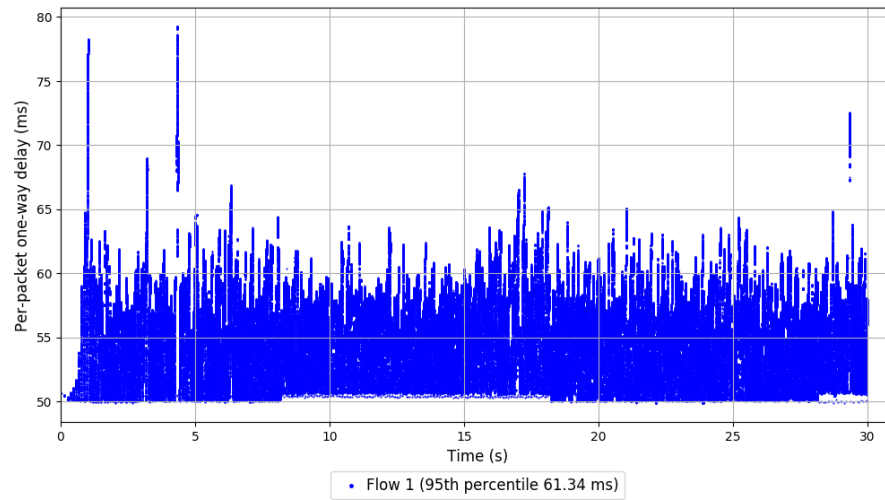
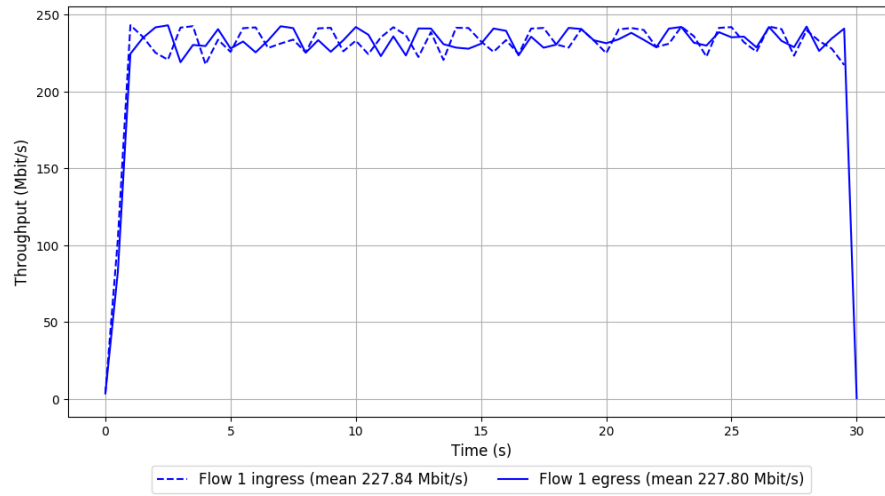
-- Flow 1:

Average throughput: 227.80 Mbit/s

95th percentile per-packet one-way delay: 61.335 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-20 05:22:18

End at: 2018-02-20 05:22:48

Below is generated by plot.py at 2018-02-20 08:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.34 Mbit/s

95th percentile per-packet one-way delay: 51.973 ms

Loss rate: 0.00%

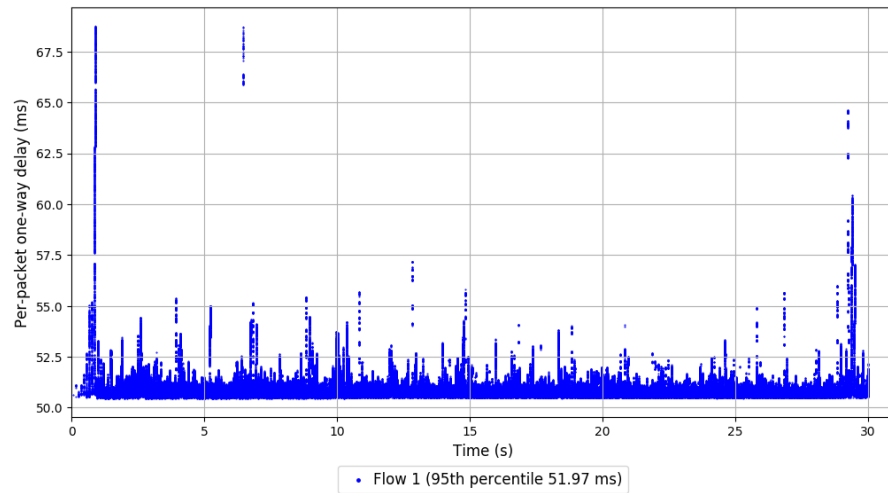
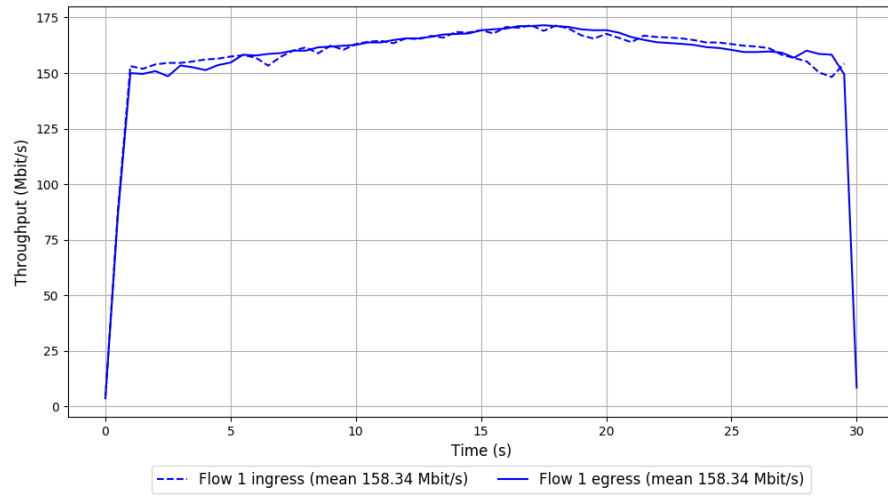
-- Flow 1:

Average throughput: 158.34 Mbit/s

95th percentile per-packet one-way delay: 51.973 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-20 05:37:16

End at: 2018-02-20 05:37:46

Below is generated by plot.py at 2018-02-20 08:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 52.112 ms

Loss rate: 0.00%

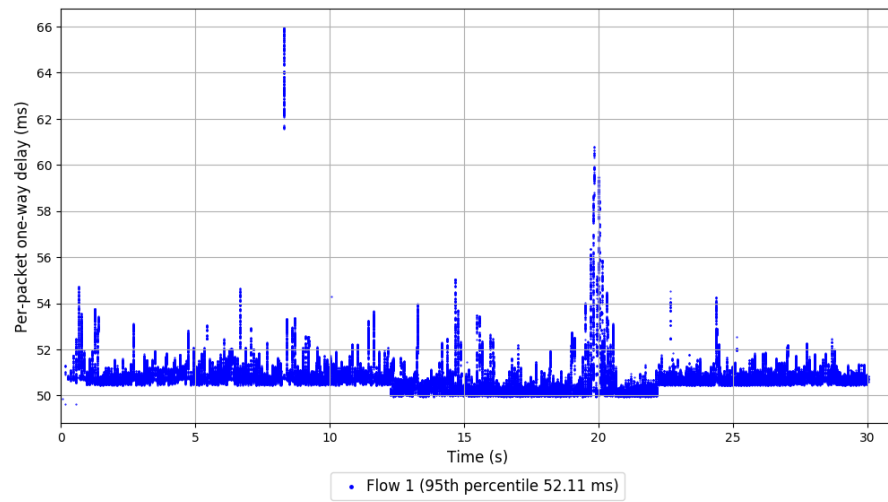
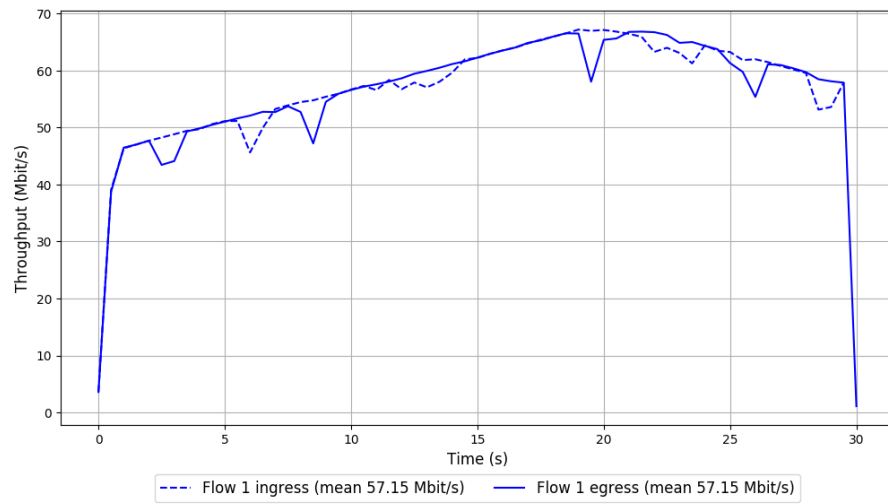
-- Flow 1:

Average throughput: 57.15 Mbit/s

95th percentile per-packet one-way delay: 52.112 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-20 03:21:16

End at: 2018-02-20 03:21:46

Below is generated by plot.py at 2018-02-20 08:09:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.26 Mbit/s

95th percentile per-packet one-way delay: 87.767 ms

Loss rate: 0.00%

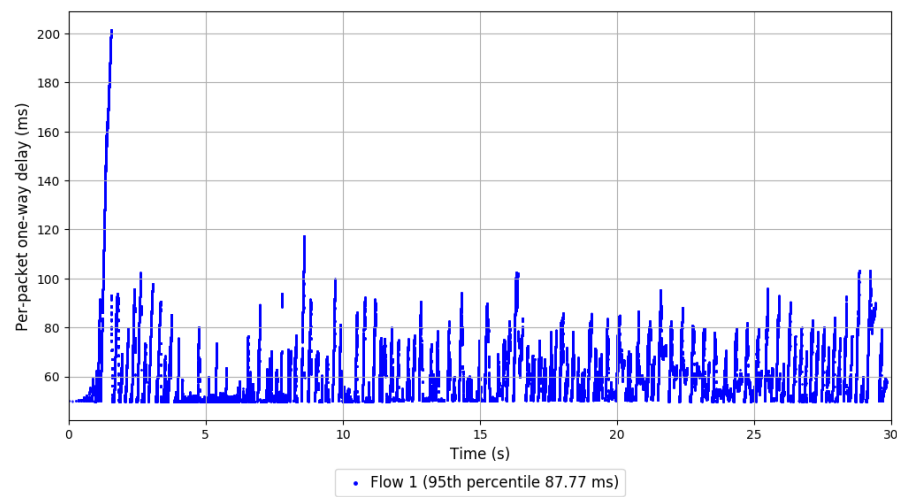
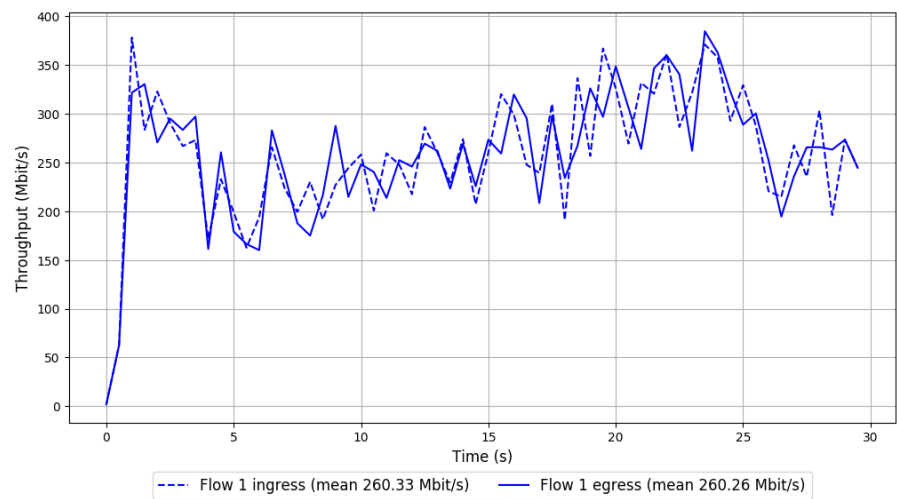
-- Flow 1:

Average throughput: 260.26 Mbit/s

95th percentile per-packet one-way delay: 87.767 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-20 03:36:08

End at: 2018-02-20 03:36:38

Below is generated by plot.py at 2018-02-20 08:09:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.44 Mbit/s

95th percentile per-packet one-way delay: 68.699 ms

Loss rate: 0.22%

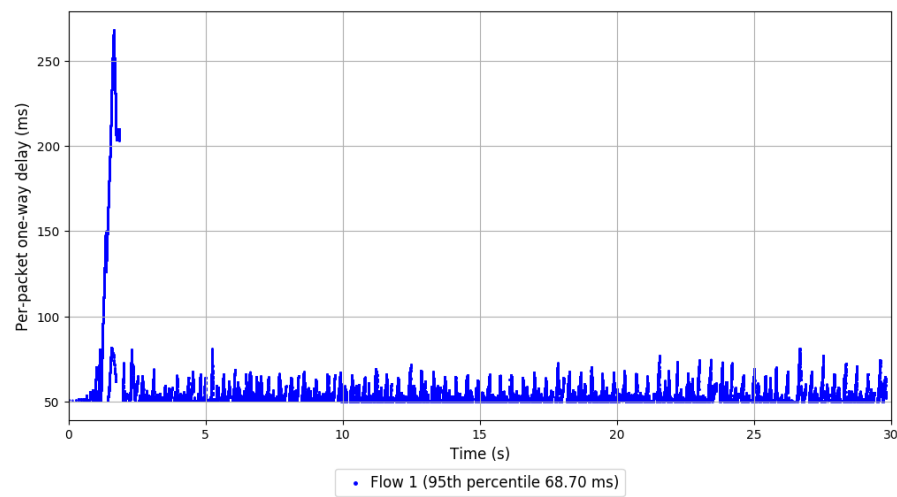
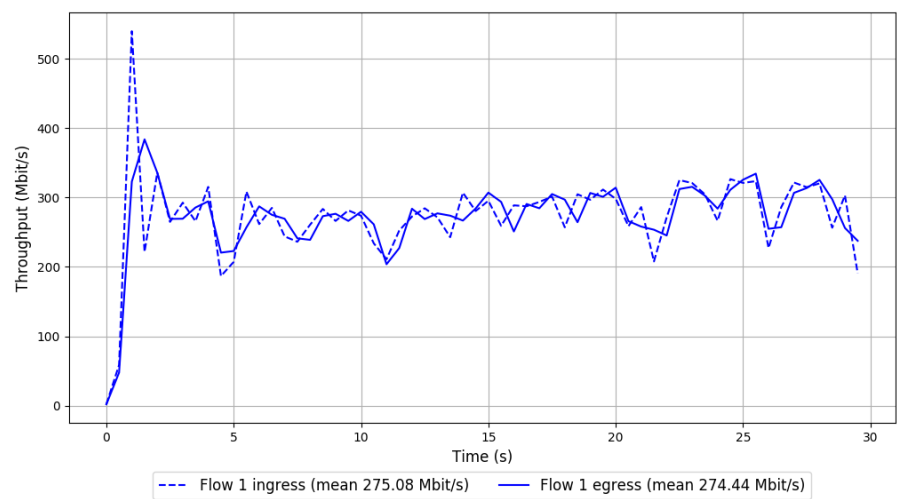
-- Flow 1:

Average throughput: 274.44 Mbit/s

95th percentile per-packet one-way delay: 68.699 ms

Loss rate: 0.22%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-20 03:50:51

End at: 2018-02-20 03:51:21

Below is generated by plot.py at 2018-02-20 08:09:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.36 Mbit/s

95th percentile per-packet one-way delay: 105.743 ms

Loss rate: 0.18%

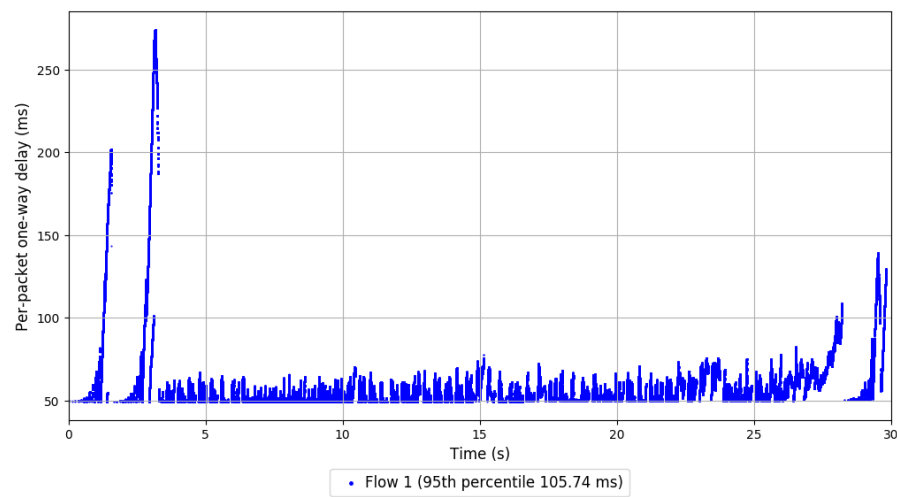
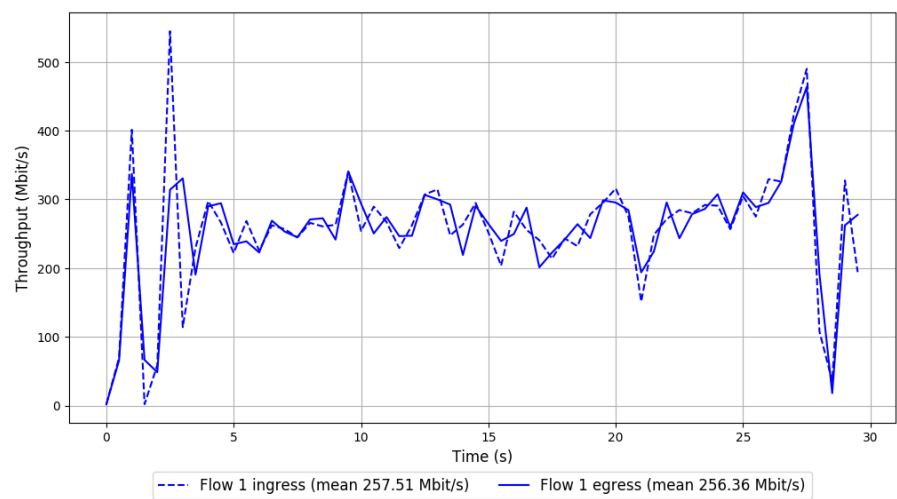
-- Flow 1:

Average throughput: 256.36 Mbit/s

95th percentile per-packet one-way delay: 105.743 ms

Loss rate: 0.18%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-20 04:05:43

End at: 2018-02-20 04:06:13

Below is generated by plot.py at 2018-02-20 08:11:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.76 Mbit/s

95th percentile per-packet one-way delay: 90.622 ms

Loss rate: 0.33%

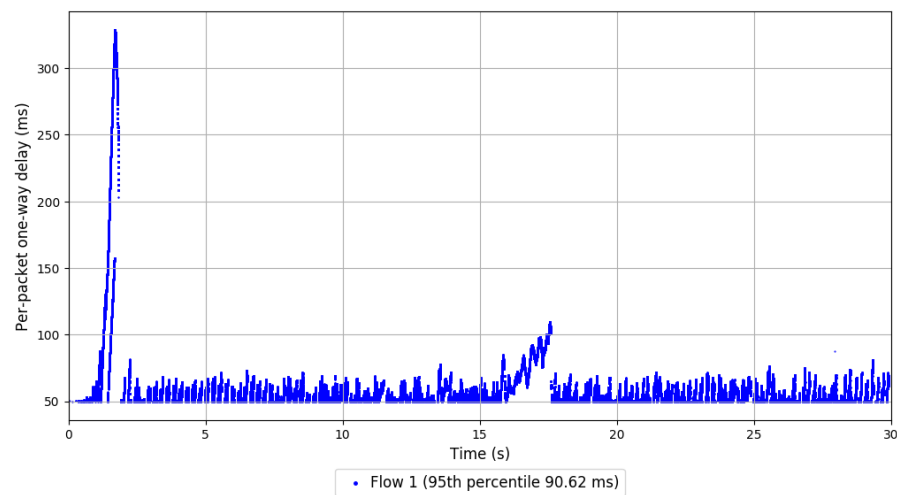
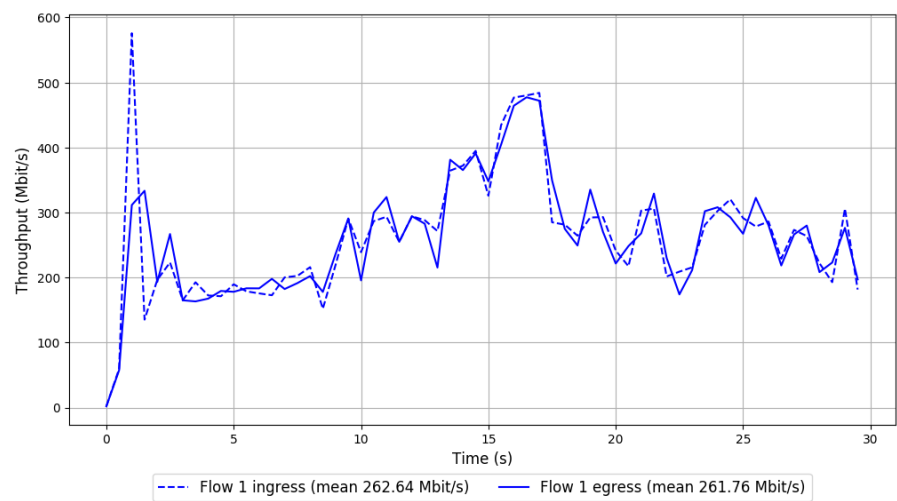
-- Flow 1:

Average throughput: 261.76 Mbit/s

95th percentile per-packet one-way delay: 90.622 ms

Loss rate: 0.33%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-20 04:20:45

End at: 2018-02-20 04:21:15

Below is generated by plot.py at 2018-02-20 08:11:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.42 Mbit/s

95th percentile per-packet one-way delay: 175.150 ms

Loss rate: 0.22%

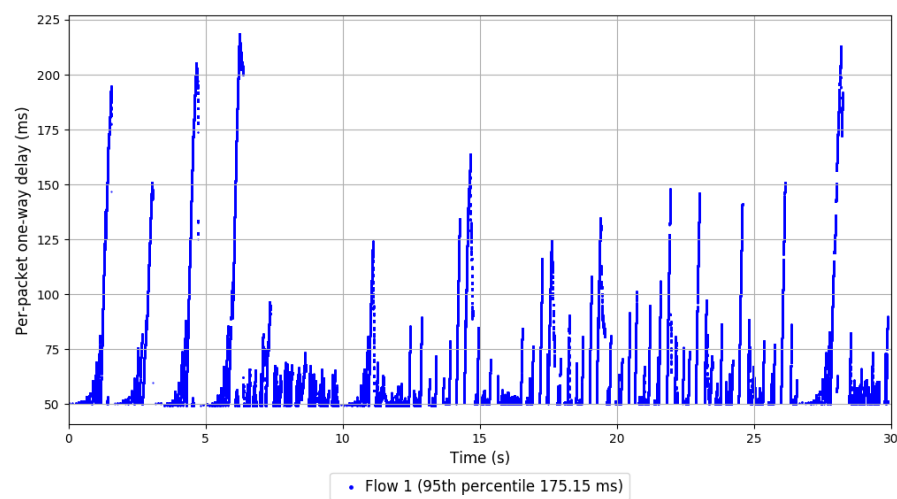
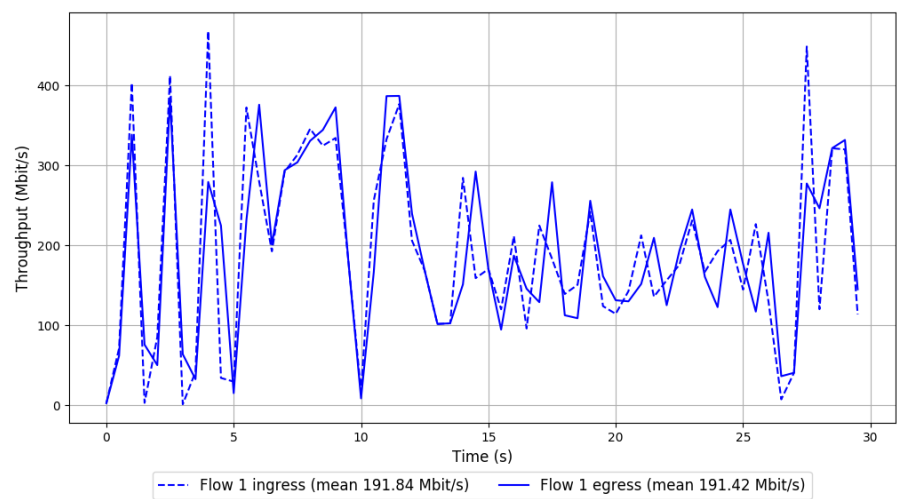
-- Flow 1:

Average throughput: 191.42 Mbit/s

95th percentile per-packet one-way delay: 175.150 ms

Loss rate: 0.22%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-20 04:35:36

End at: 2018-02-20 04:36:06

Below is generated by plot.py at 2018-02-20 08:11:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.56 Mbit/s

95th percentile per-packet one-way delay: 69.022 ms

Loss rate: 0.25%

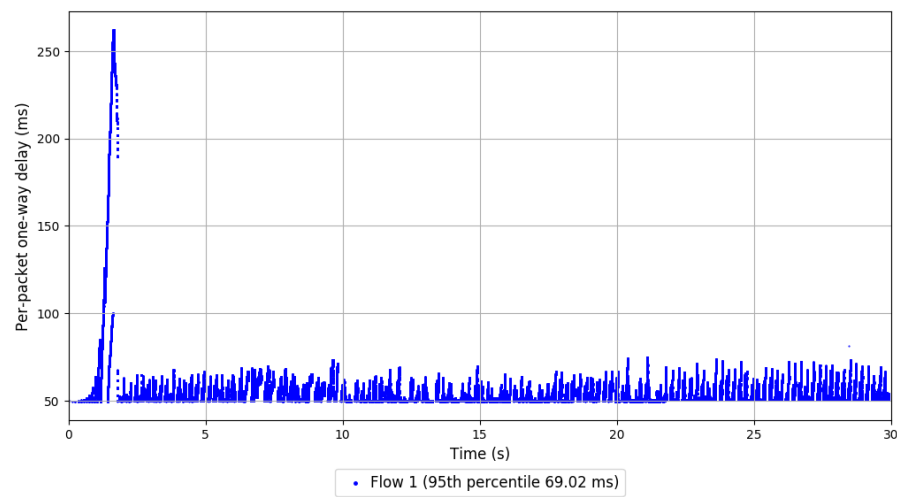
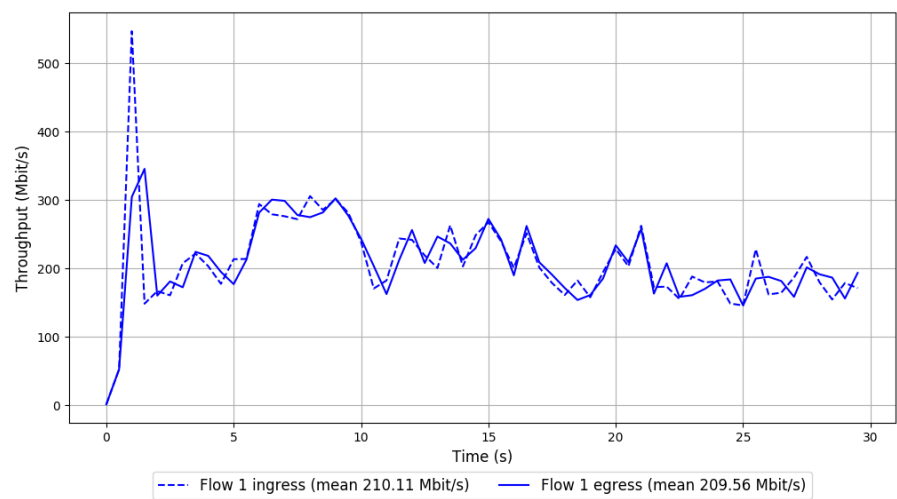
-- Flow 1:

Average throughput: 209.56 Mbit/s

95th percentile per-packet one-way delay: 69.022 ms

Loss rate: 0.25%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-20 04:50:26

End at: 2018-02-20 04:50:56

Below is generated by plot.py at 2018-02-20 08:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.17 Mbit/s

95th percentile per-packet one-way delay: 88.298 ms

Loss rate: 0.00%

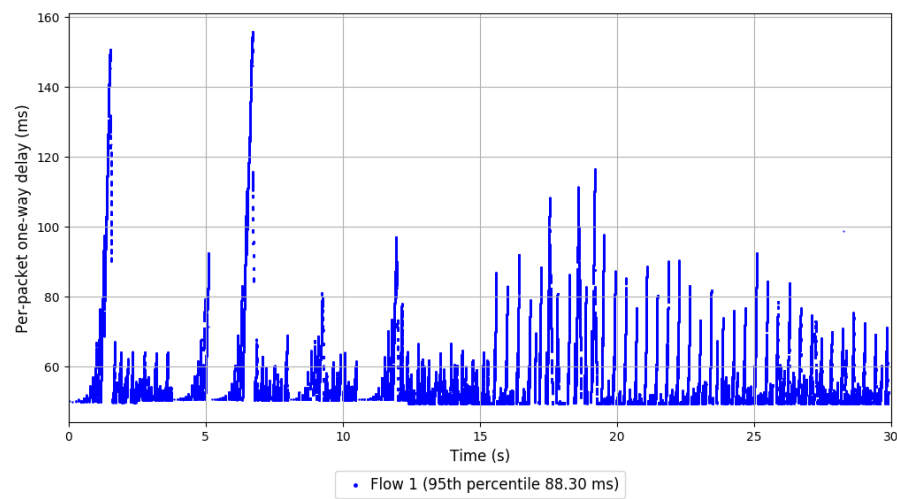
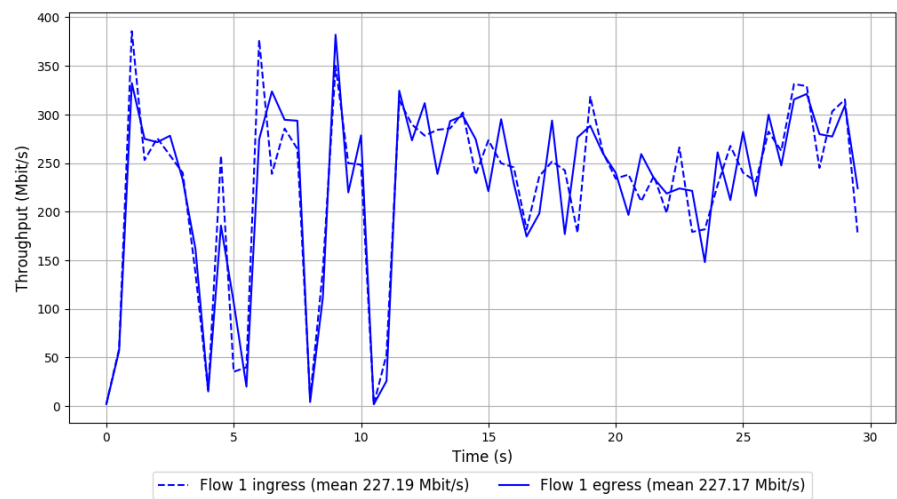
-- Flow 1:

Average throughput: 227.17 Mbit/s

95th percentile per-packet one-way delay: 88.298 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-20 05:05:24

End at: 2018-02-20 05:05:54

Below is generated by plot.py at 2018-02-20 08:13:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.84 Mbit/s

95th percentile per-packet one-way delay: 77.652 ms

Loss rate: 0.77%

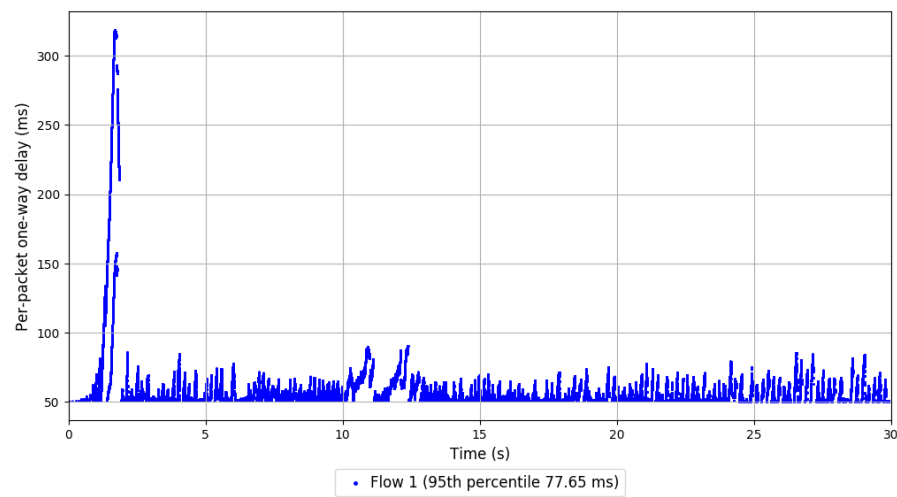
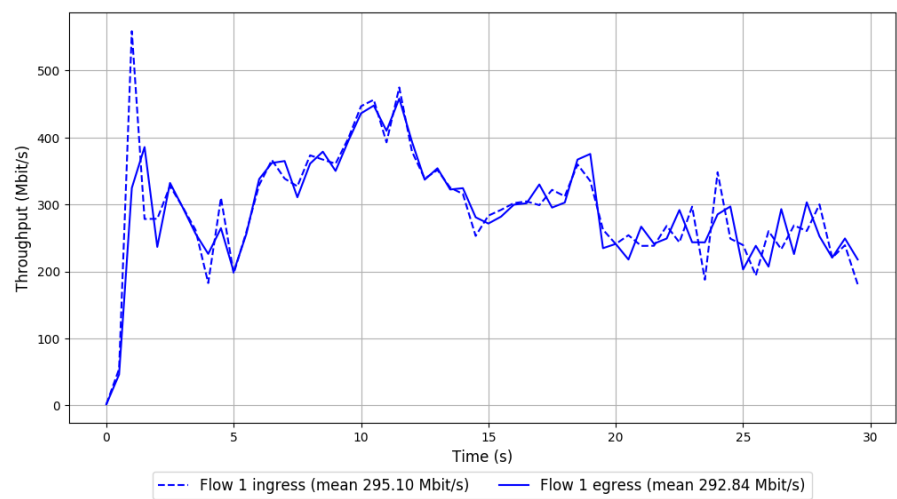
-- Flow 1:

Average throughput: 292.84 Mbit/s

95th percentile per-packet one-way delay: 77.652 ms

Loss rate: 0.77%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-20 05:20:19

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.09 Mbit/s

95th percentile per-packet one-way delay: 175.530 ms

Loss rate: 0.42%

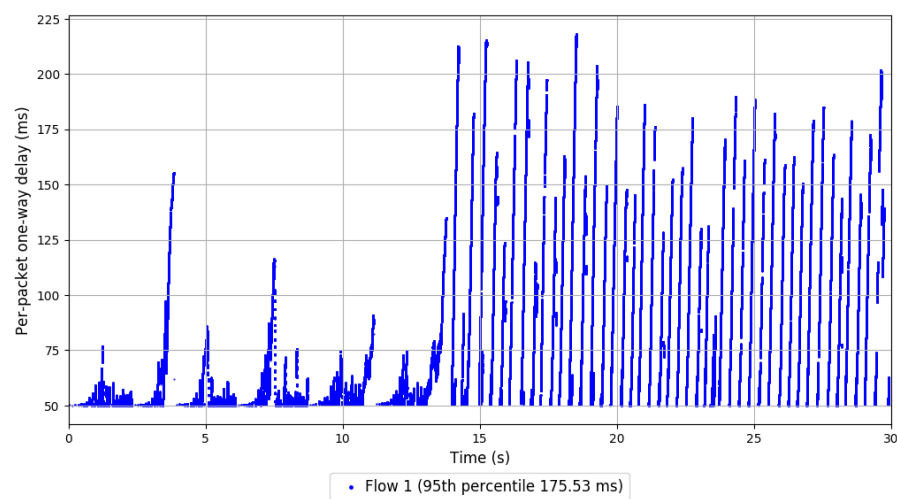
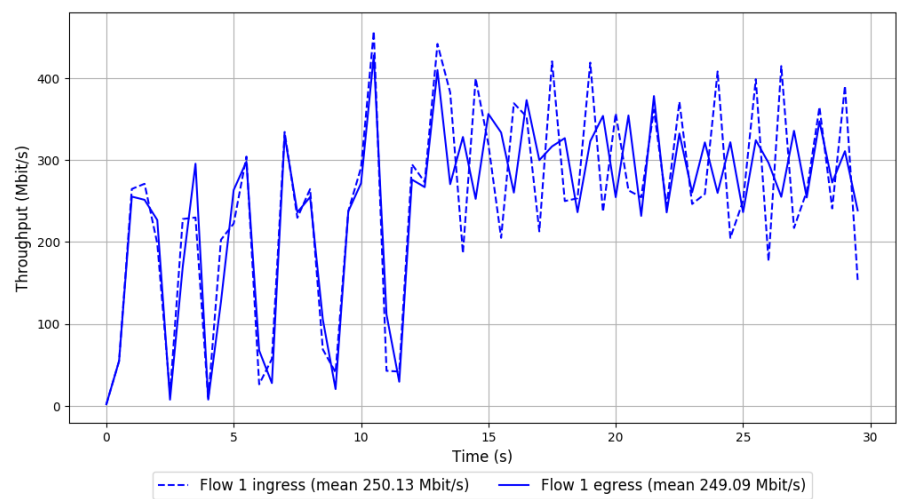
-- Flow 1:

Average throughput: 249.09 Mbit/s

95th percentile per-packet one-way delay: 175.530 ms

Loss rate: 0.42%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-20 05:35:19

End at: 2018-02-20 05:35:49

Below is generated by plot.py at 2018-02-20 08:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.22 Mbit/s

95th percentile per-packet one-way delay: 78.149 ms

Loss rate: 0.18%

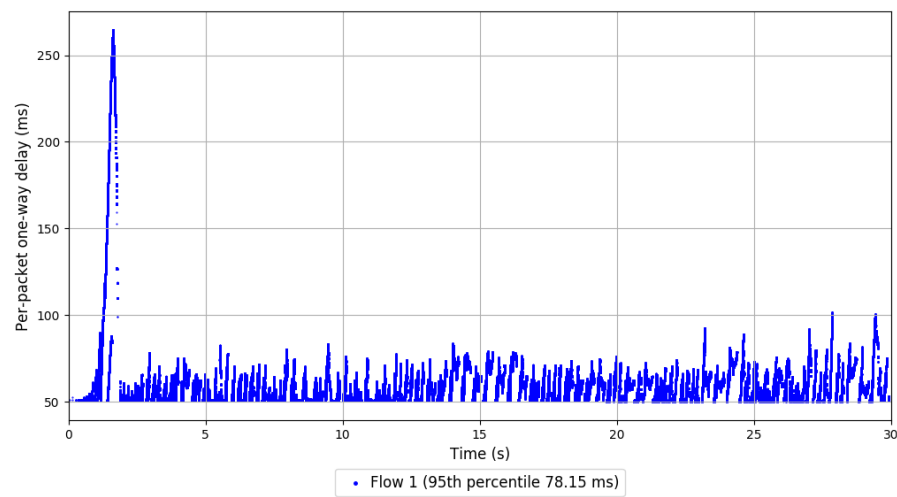
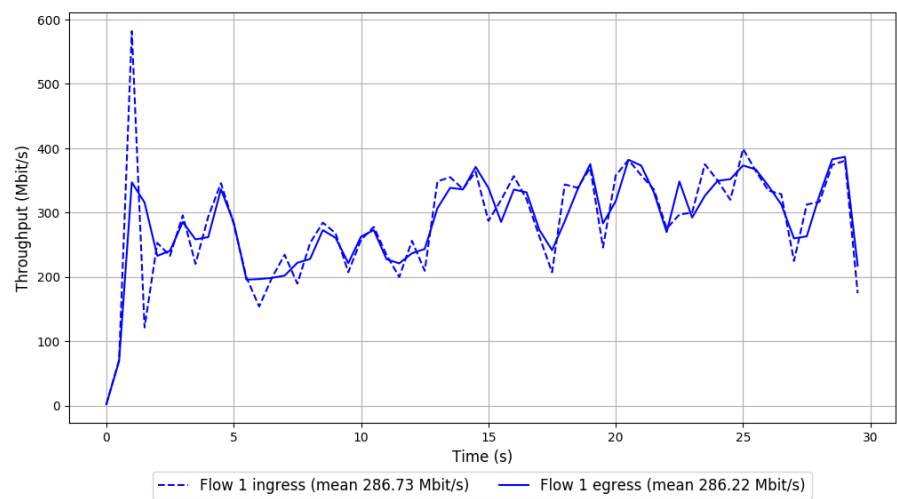
-- Flow 1:

Average throughput: 286.22 Mbit/s

95th percentile per-packet one-way delay: 78.149 ms

Loss rate: 0.18%

Run 10: Report of Verus — Data Link

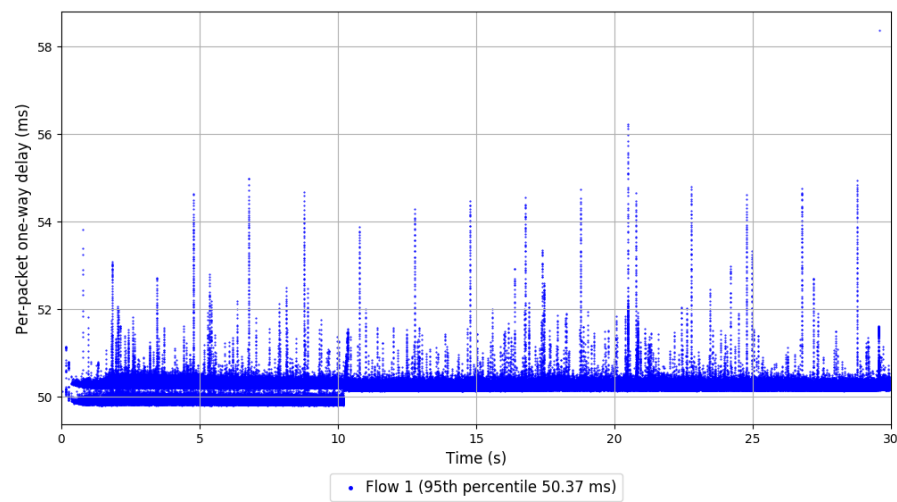
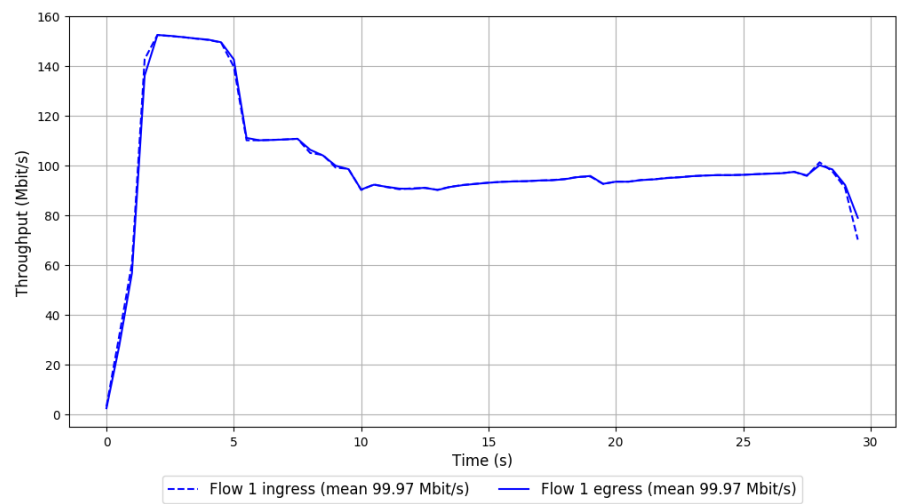


```
Run 1: Statistics of Copa

Start at: 2018-02-20 03:25:08
End at: 2018-02-20 03:25:38

# Below is generated by plot.py at 2018-02-20 08:14:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 99.97 Mbit/s
95th percentile per-packet one-way delay: 50.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 99.97 Mbit/s
95th percentile per-packet one-way delay: 50.372 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-20 03:39:50

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

Below is generated by plot.py at 2018-02-20 08:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.42 Mbit/s

95th percentile per-packet one-way delay: 50.384 ms

Loss rate: 0.00%

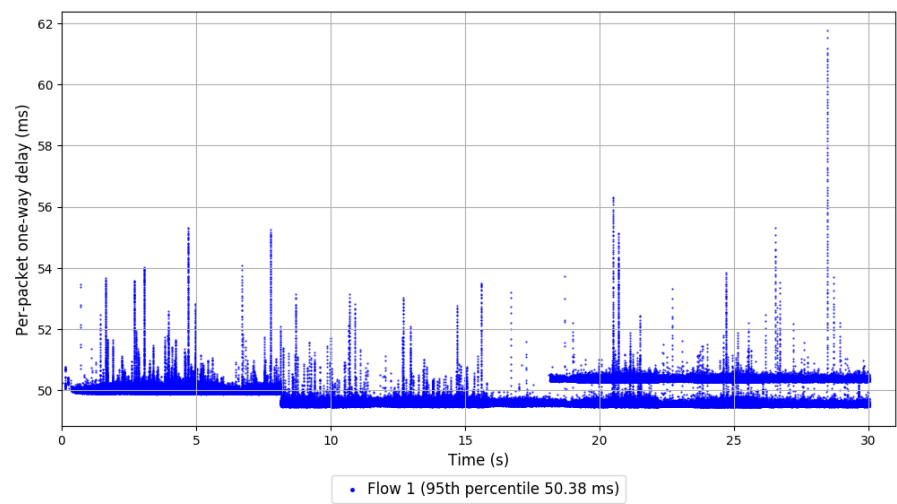
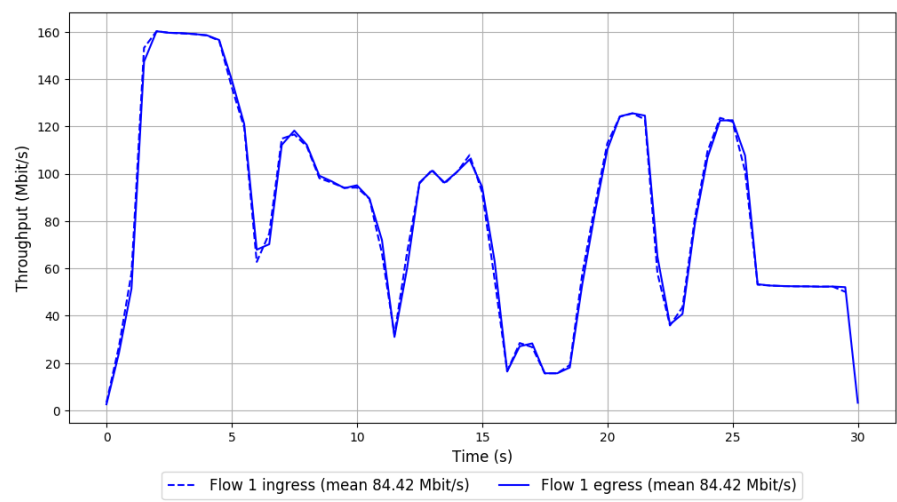
-- Flow 1:

Average throughput: 84.42 Mbit/s

95th percentile per-packet one-way delay: 50.384 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-20 03:54:38

End at: 2018-02-20 03:55:08

Below is generated by plot.py at 2018-02-20 08:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.61 Mbit/s

95th percentile per-packet one-way delay: 50.327 ms

Loss rate: 0.00%

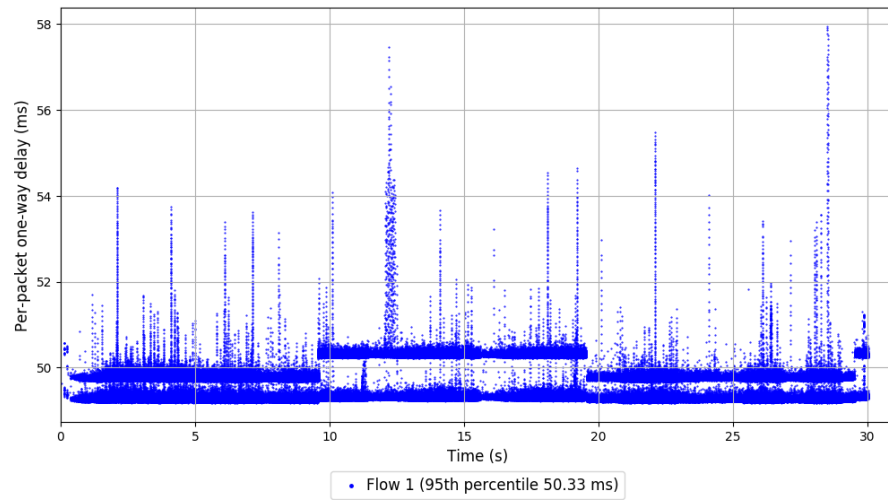
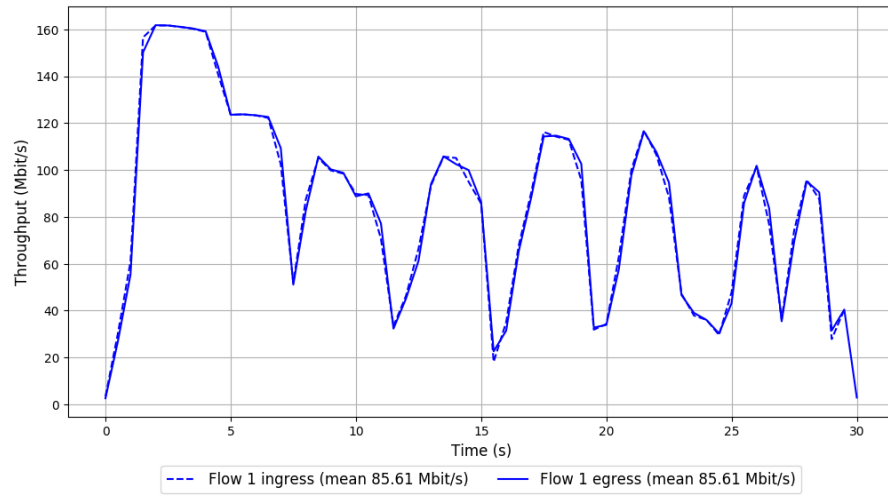
-- Flow 1:

Average throughput: 85.61 Mbit/s

95th percentile per-packet one-way delay: 50.327 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-20 04:09:41

End at: 2018-02-20 04:10:11

Below is generated by plot.py at 2018-02-20 08:14:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 50.203 ms

Loss rate: 0.00%

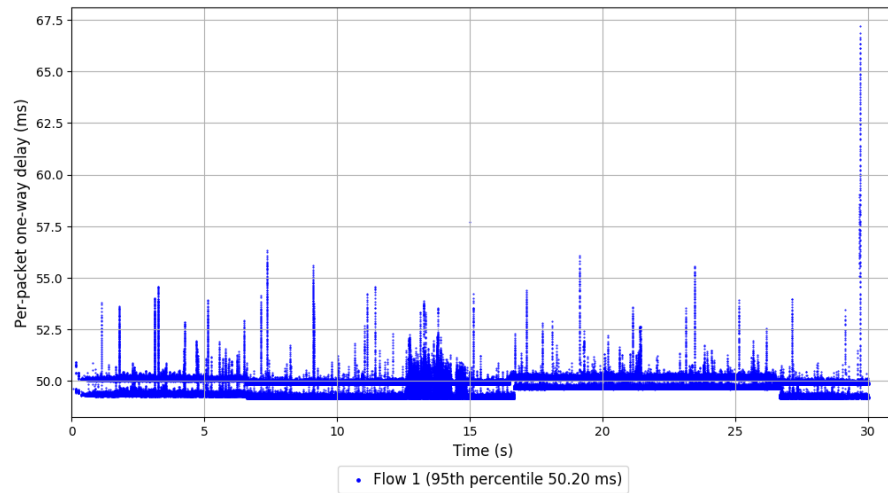
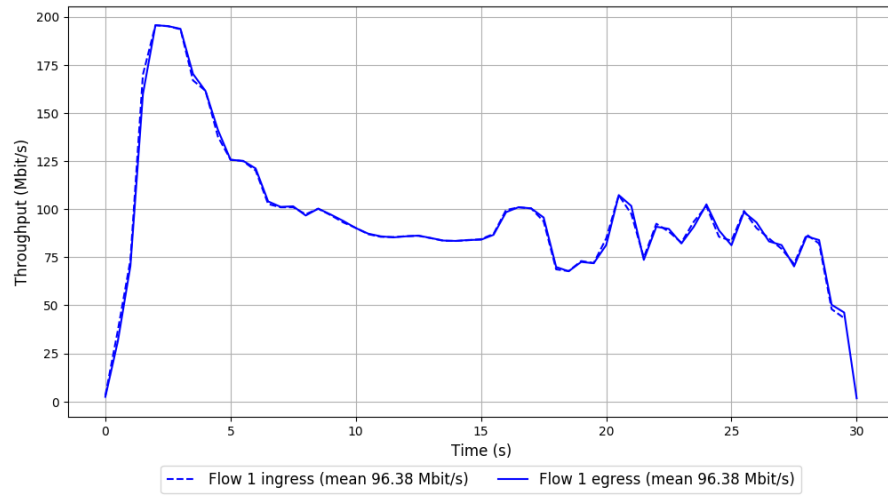
-- Flow 1:

Average throughput: 96.38 Mbit/s

95th percentile per-packet one-way delay: 50.203 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-20 04:24:39

End at: 2018-02-20 04:25:09

Below is generated by plot.py at 2018-02-20 08:14:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 50.262 ms

Loss rate: 0.00%

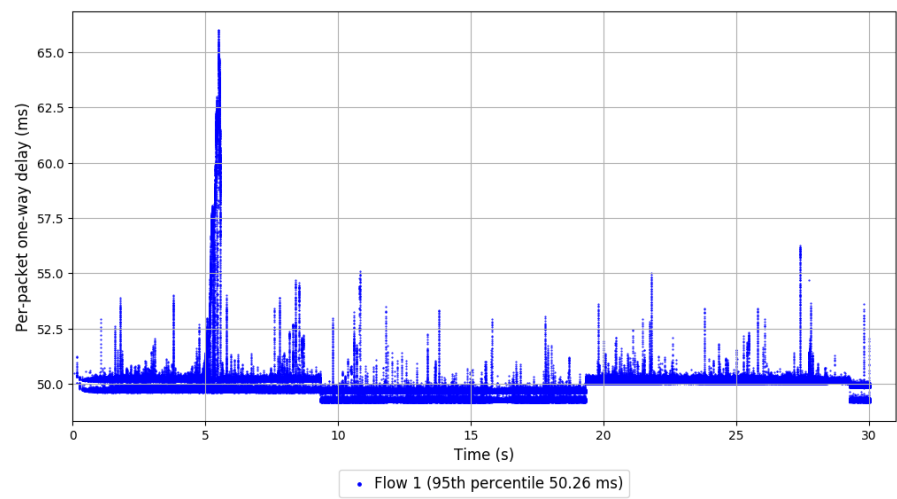
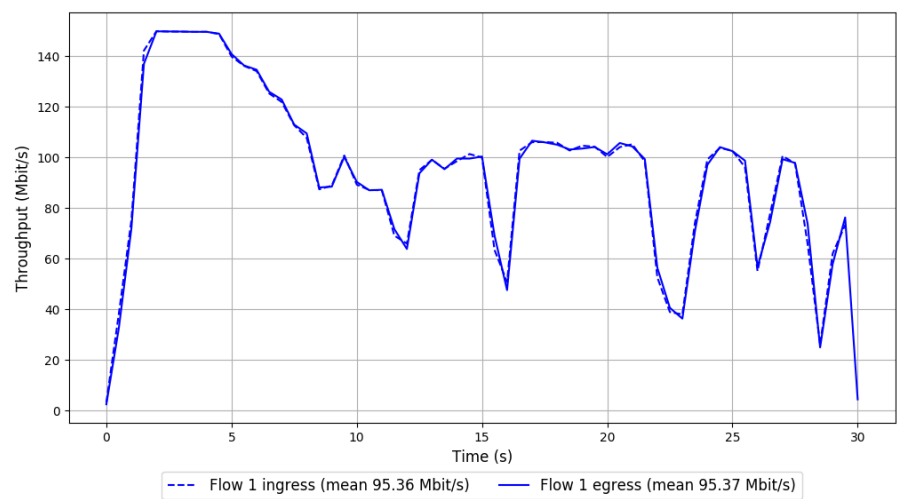
-- Flow 1:

Average throughput: 95.37 Mbit/s

95th percentile per-packet one-way delay: 50.262 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-20 04:39:26

End at: 2018-02-20 04:39:56

Below is generated by plot.py at 2018-02-20 08:16:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.53 Mbit/s

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

Loss rate: 0.00%

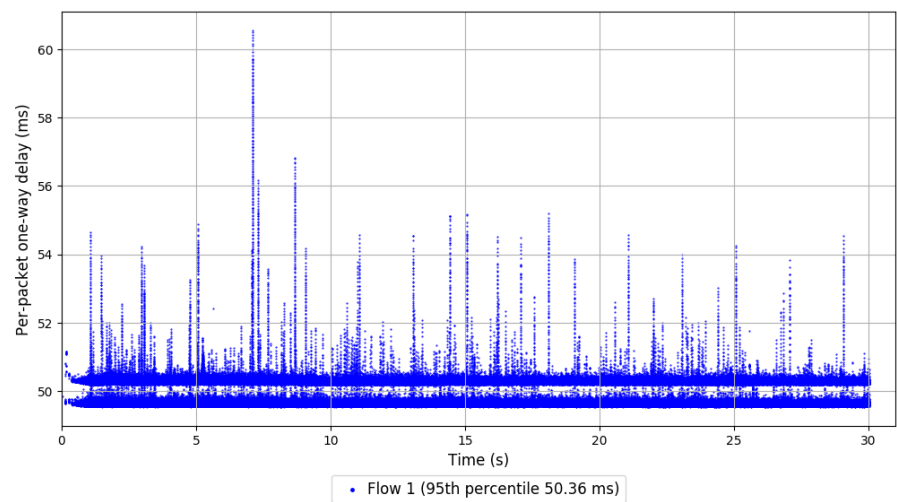
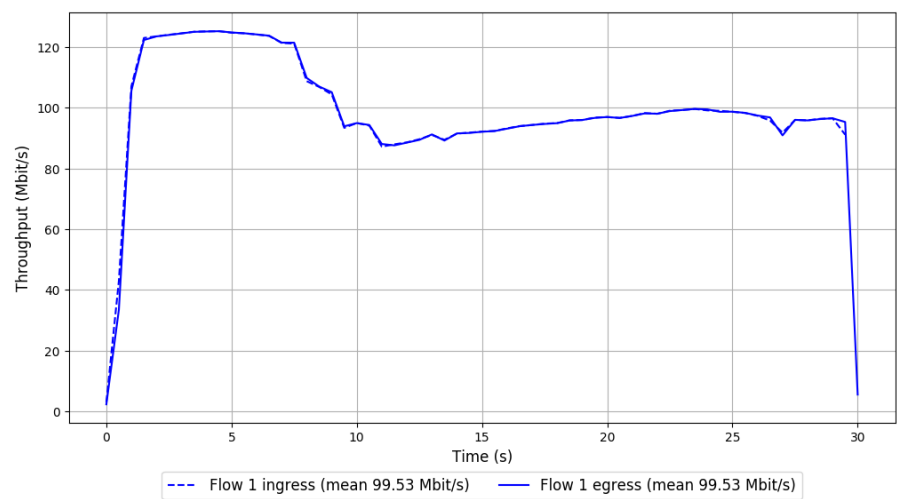
-- Flow 1:

Average throughput: 99.53 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-20 04:54:22

End at: 2018-02-20 04:54:52

Below is generated by plot.py at 2018-02-20 08:16:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.56 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.00%

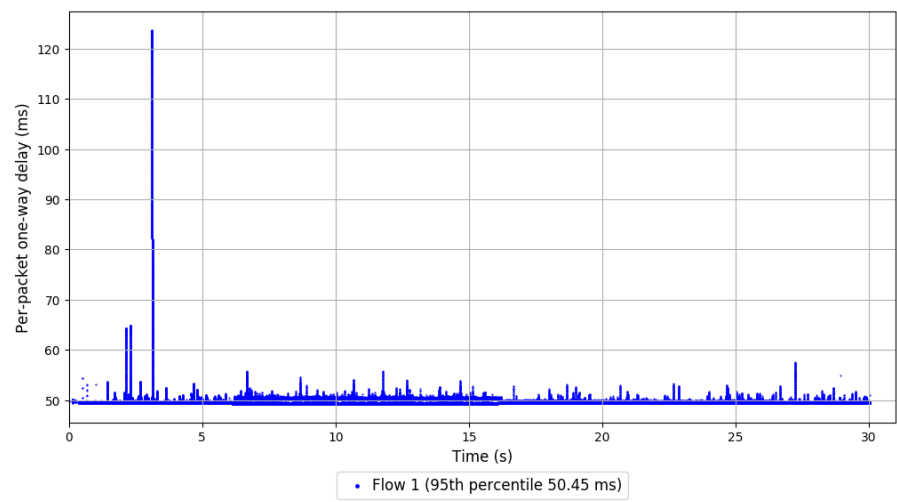
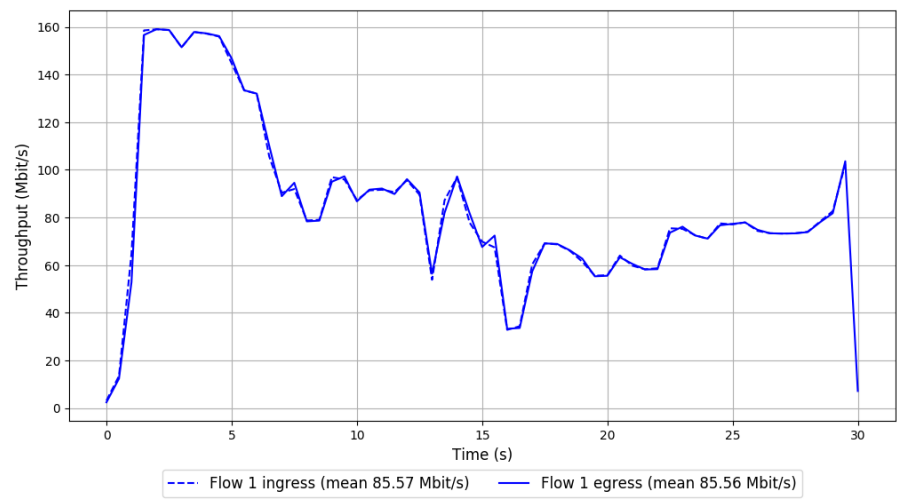
-- Flow 1:

Average throughput: 85.56 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-20 05:09:21

End at: 2018-02-20 05:09:51

Below is generated by plot.py at 2018-02-20 08:16:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.06 Mbit/s

95th percentile per-packet one-way delay: 50.552 ms

Loss rate: 0.00%

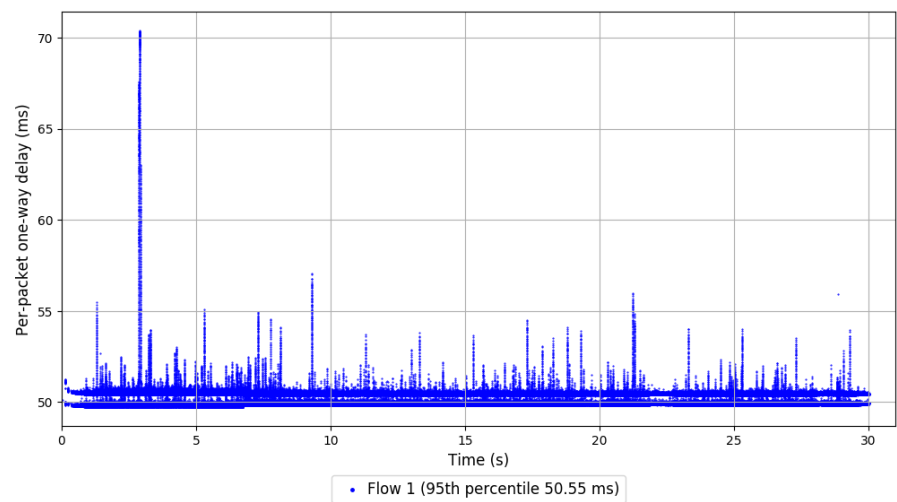
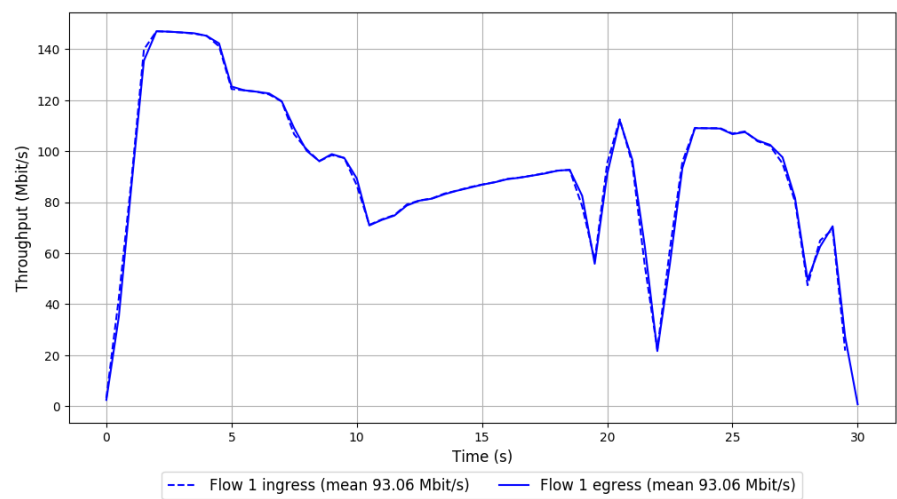
-- Flow 1:

Average throughput: 93.06 Mbit/s

95th percentile per-packet one-way delay: 50.552 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-20 05:24:14

End at: 2018-02-20 05:24:44

Below is generated by plot.py at 2018-02-20 08:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.34 Mbit/s

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

Loss rate: 0.00%

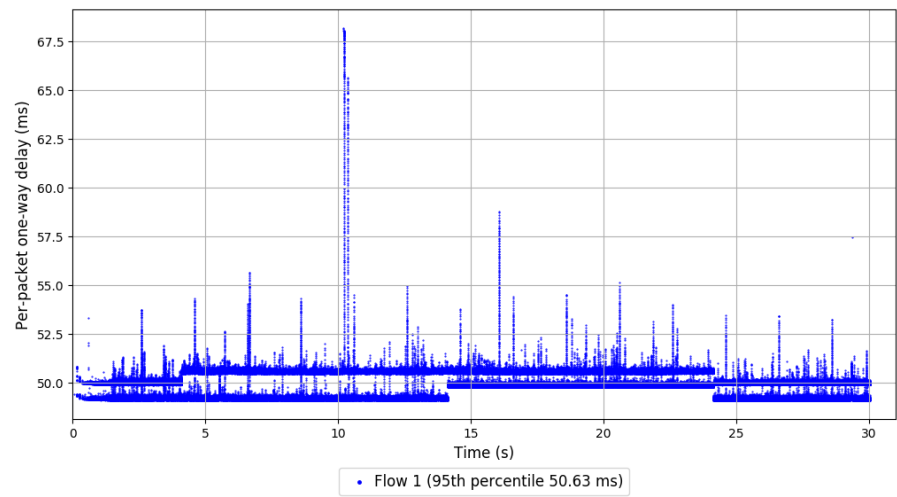
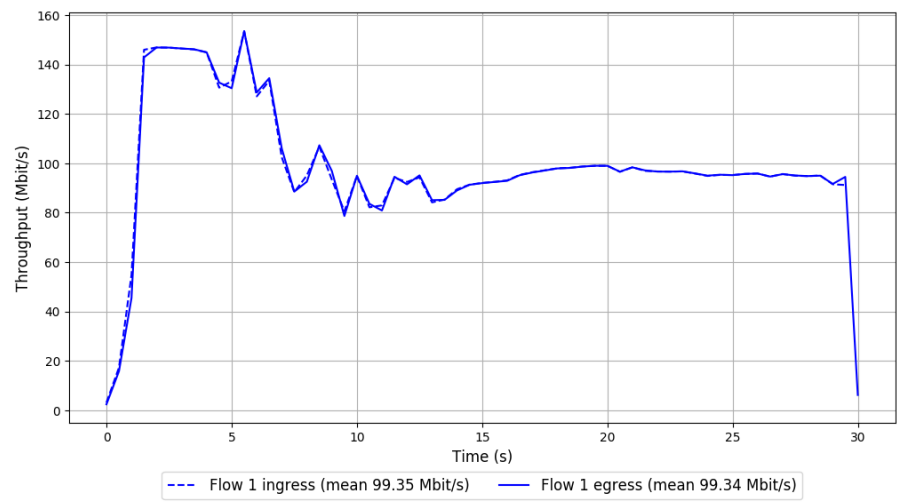
-- Flow 1:

Average throughput: 99.34 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-20 05:39:08

End at: 2018-02-20 05:39:38

Below is generated by plot.py at 2018-02-20 08:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.50 Mbit/s

95th percentile per-packet one-way delay: 50.617 ms

Loss rate: 0.00%

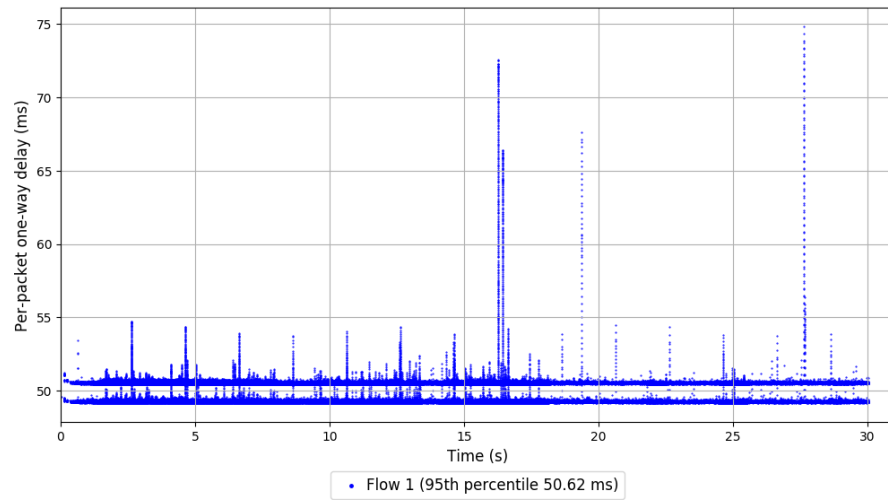
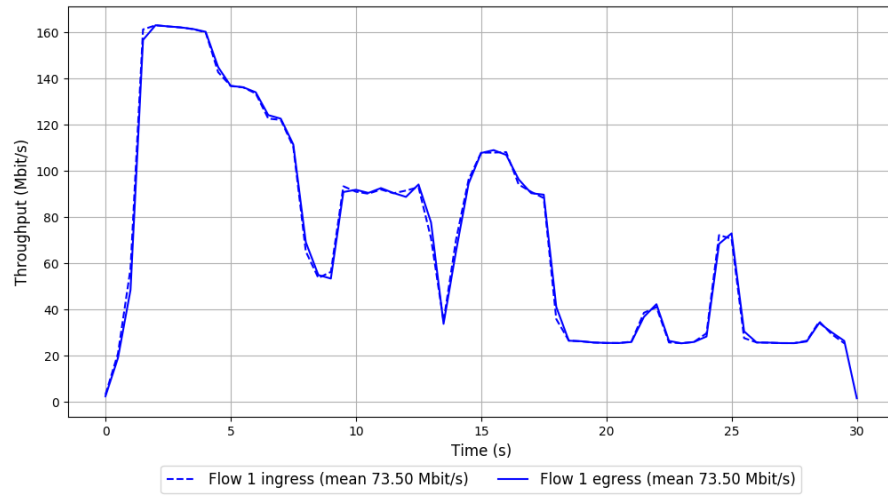
-- Flow 1:

Average throughput: 73.50 Mbit/s

95th percentile per-packet one-way delay: 50.617 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

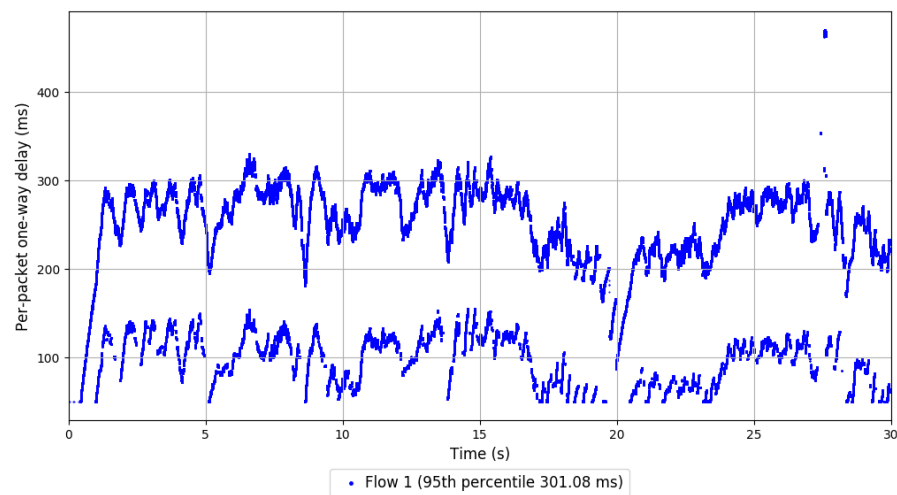
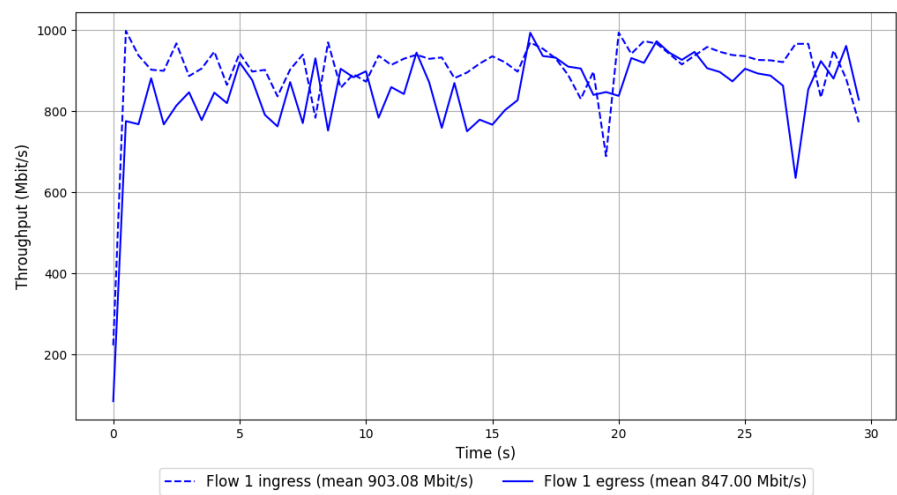


```
Run 1: Statistics of FillP

Start at: 2018-02-20 03:23:54
End at: 2018-02-20 03:24:24

# Below is generated by plot.py at 2018-02-20 08:31:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 847.00 Mbit/s
95th percentile per-packet one-way delay: 301.077 ms
Loss rate: 6.21%
-- Flow 1:
Average throughput: 847.00 Mbit/s
95th percentile per-packet one-way delay: 301.077 ms
Loss rate: 6.21%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-20 03:38:37

End at: 2018-02-20 03:39:07

Below is generated by plot.py at 2018-02-20 08:31:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 871.61 Mbit/s

95th percentile per-packet one-way delay: 282.417 ms

Loss rate: 6.66%

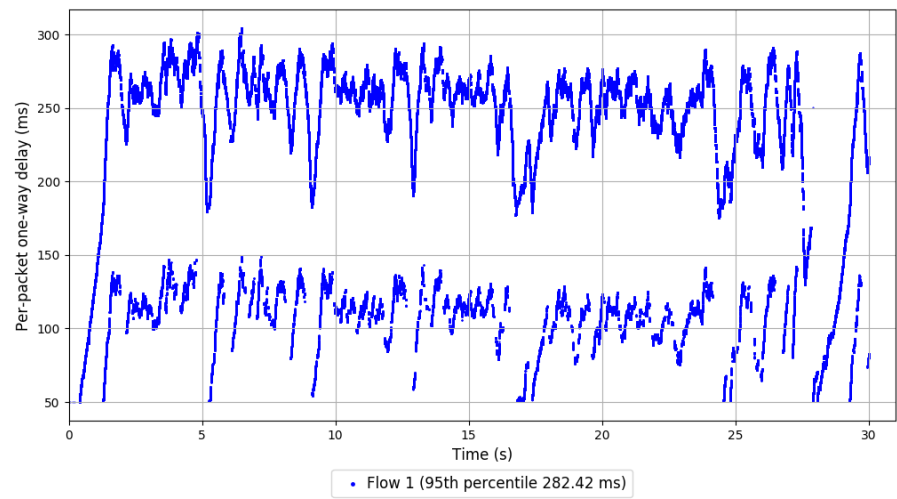
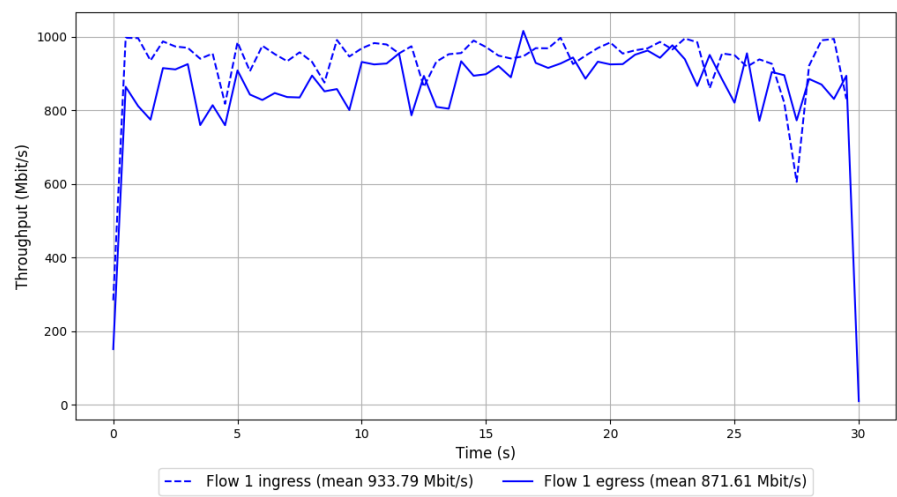
-- Flow 1:

Average throughput: 871.61 Mbit/s

95th percentile per-packet one-way delay: 282.417 ms

Loss rate: 6.66%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-20 03:53:24

End at: 2018-02-20 03:53:54

Below is generated by plot.py at 2018-02-20 08:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 874.64 Mbit/s

95th percentile per-packet one-way delay: 291.035 ms

Loss rate: 7.17%

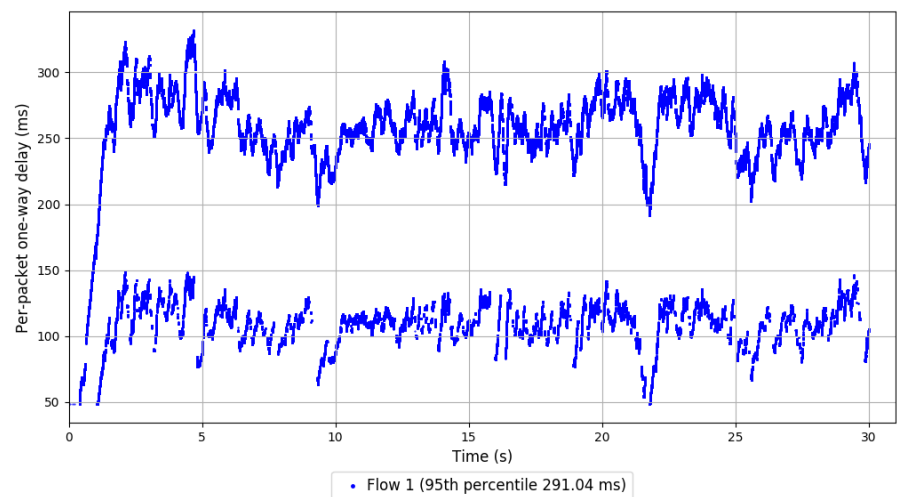
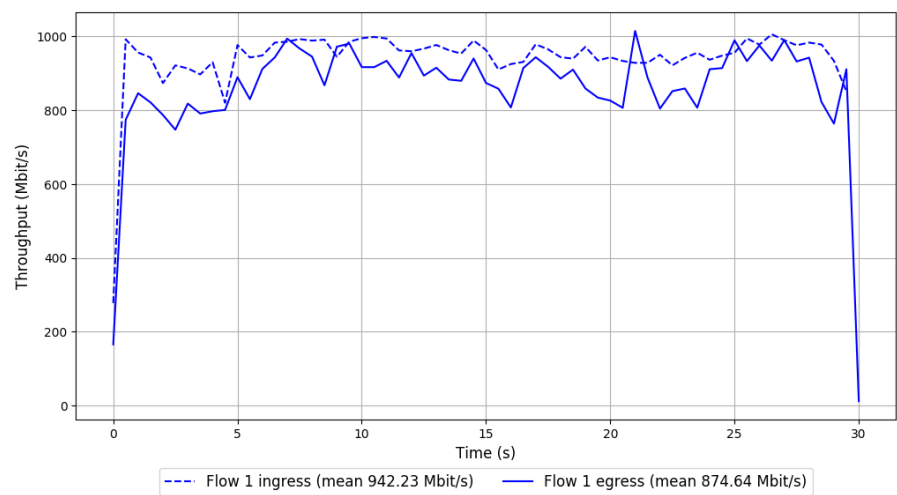
-- Flow 1:

Average throughput: 874.64 Mbit/s

95th percentile per-packet one-way delay: 291.035 ms

Loss rate: 7.17%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-20 04:08:26

End at: 2018-02-20 04:08:56

Below is generated by plot.py at 2018-02-20 08:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 871.74 Mbit/s

95th percentile per-packet one-way delay: 291.276 ms

Loss rate: 4.89%

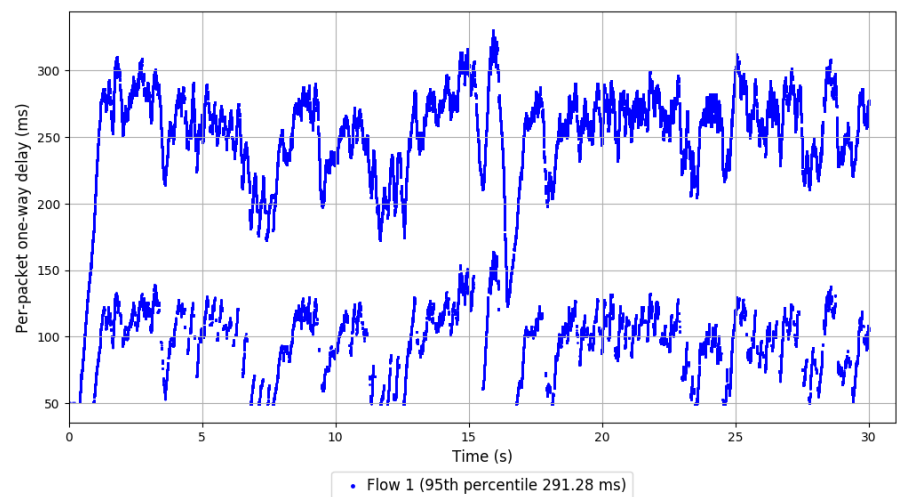
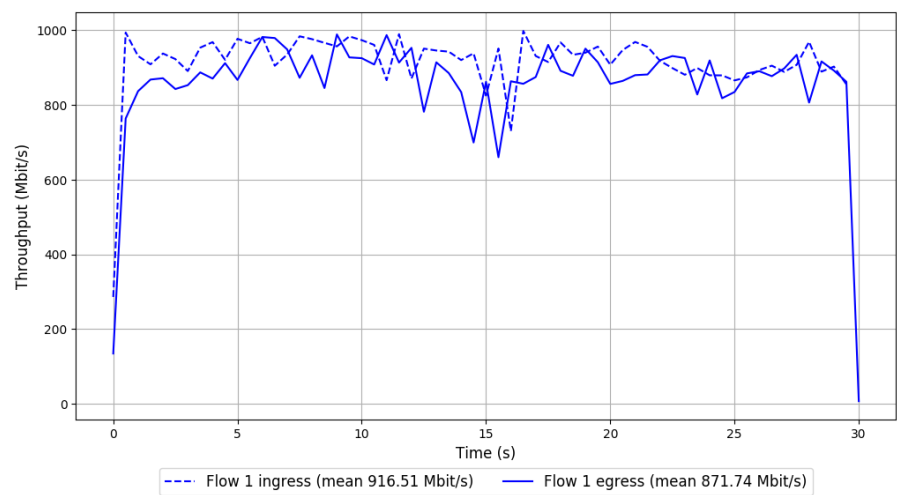
-- Flow 1:

Average throughput: 871.74 Mbit/s

95th percentile per-packet one-way delay: 291.276 ms

Loss rate: 4.89%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-20 04:23:24

End at: 2018-02-20 04:23:54

Below is generated by plot.py at 2018-02-20 08:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 850.70 Mbit/s

95th percentile per-packet one-way delay: 290.568 ms

Loss rate: 6.02%

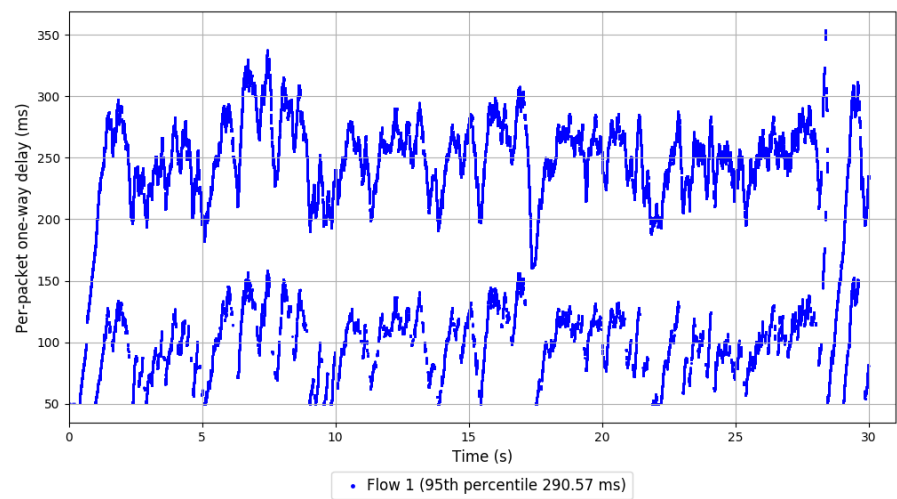
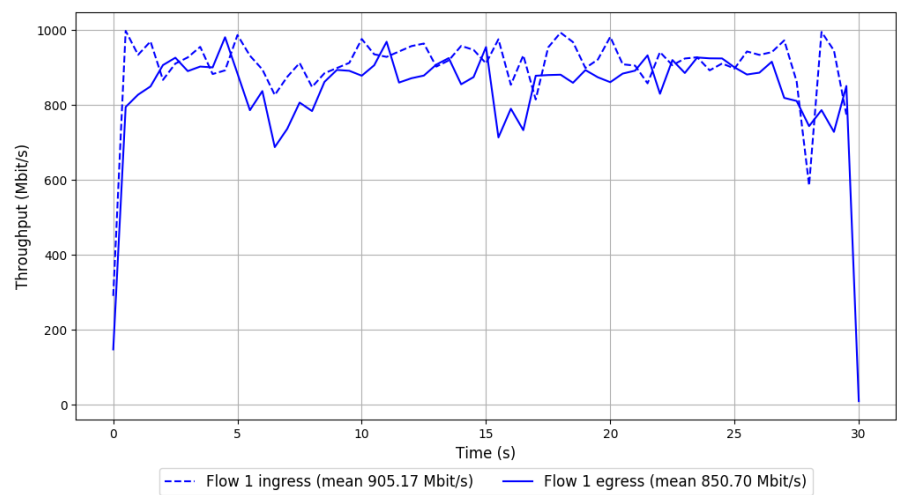
-- Flow 1:

Average throughput: 850.70 Mbit/s

95th percentile per-packet one-way delay: 290.568 ms

Loss rate: 6.02%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-20 04:38:11

End at: 2018-02-20 04:38:41

Below is generated by plot.py at 2018-02-20 08:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 846.23 Mbit/s

95th percentile per-packet one-way delay: 288.074 ms

Loss rate: 6.98%

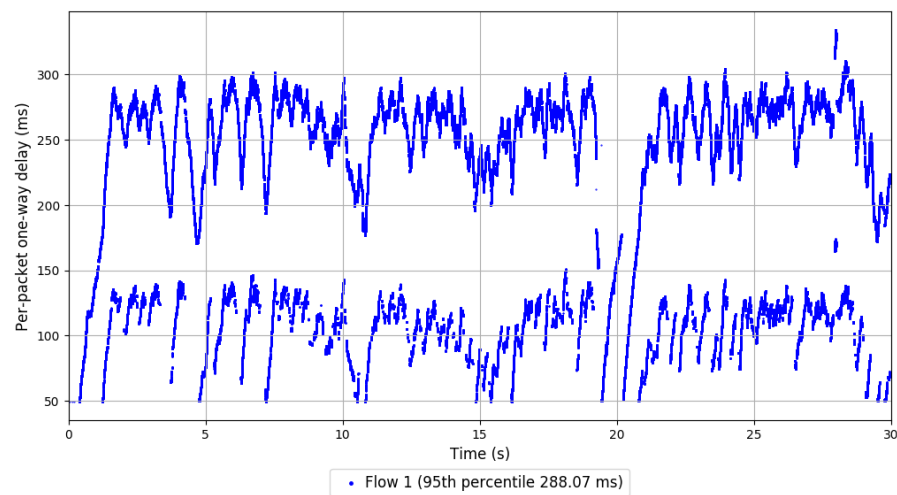
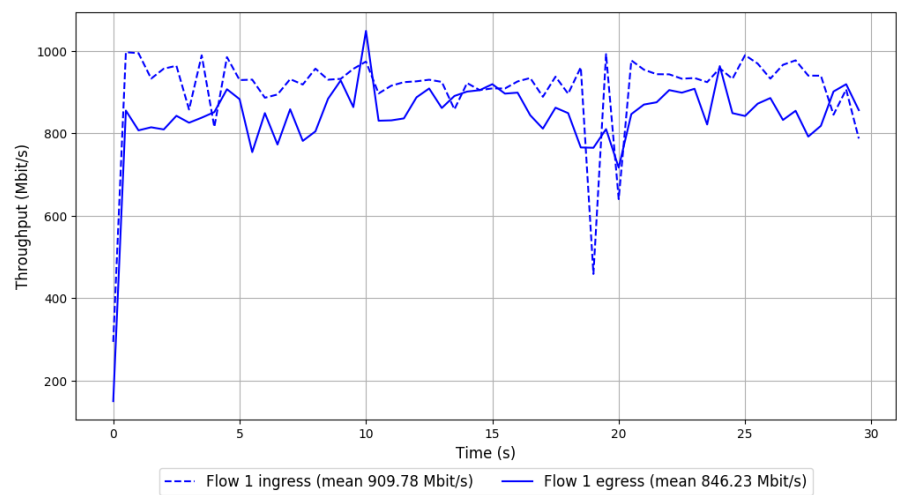
-- Flow 1:

Average throughput: 846.23 Mbit/s

95th percentile per-packet one-way delay: 288.074 ms

Loss rate: 6.98%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-20 04:53:08

End at: 2018-02-20 04:53:38

Below is generated by plot.py at 2018-02-20 08:33:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 893.86 Mbit/s

95th percentile per-packet one-way delay: 277.454 ms

Loss rate: 5.52%

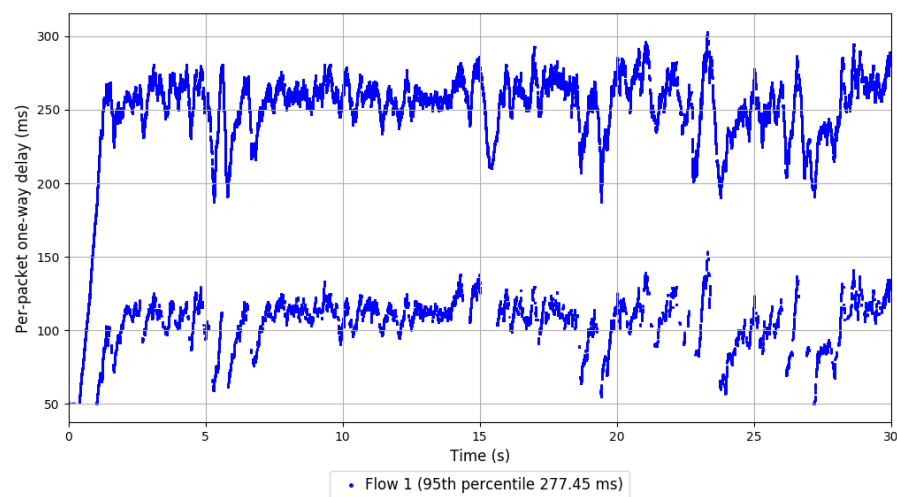
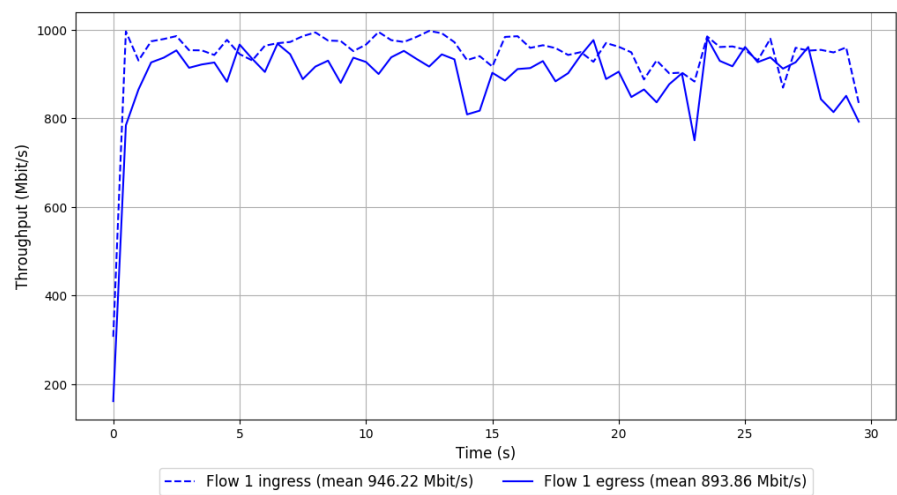
-- Flow 1:

Average throughput: 893.86 Mbit/s

95th percentile per-packet one-way delay: 277.454 ms

Loss rate: 5.52%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-20 05:08:08

End at: 2018-02-20 05:08:38

Below is generated by plot.py at 2018-02-20 08:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 892.03 Mbit/s

95th percentile per-packet one-way delay: 277.219 ms

Loss rate: 3.66%

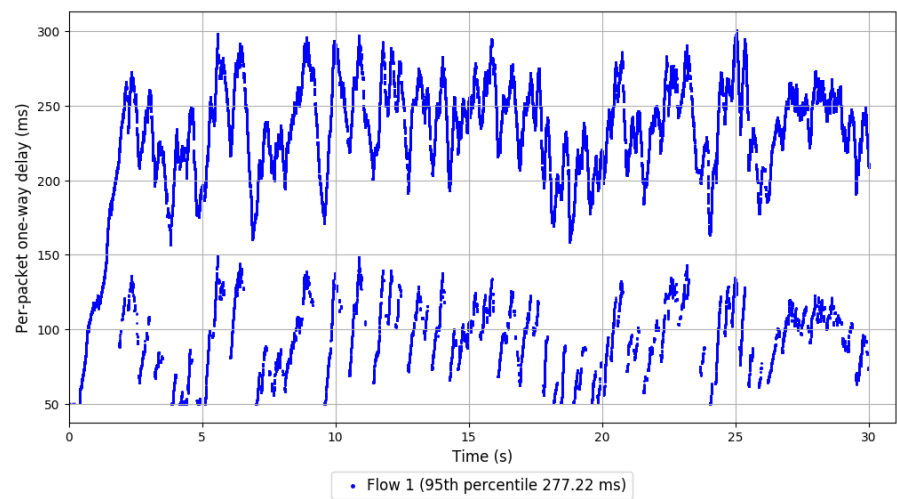
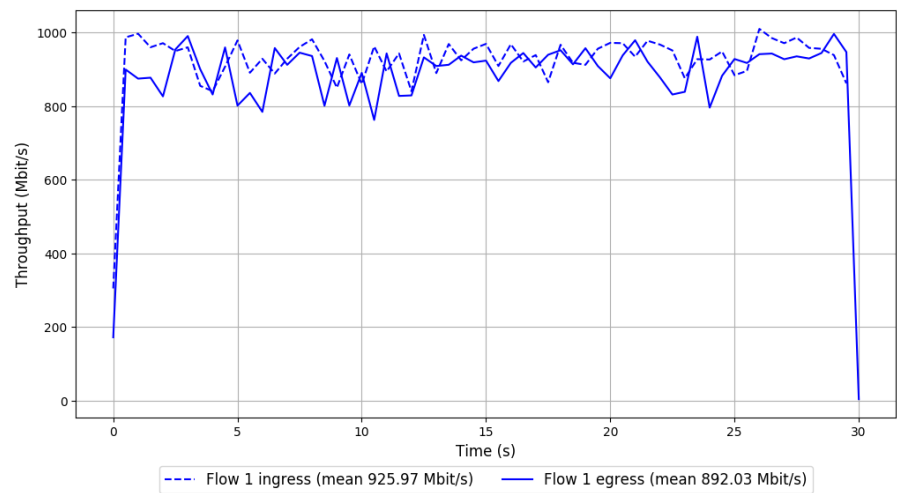
-- Flow 1:

Average throughput: 892.03 Mbit/s

95th percentile per-packet one-way delay: 277.219 ms

Loss rate: 3.66%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

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

End at: 2018-02-20 05:23:32

Below is generated by plot.py at 2018-02-20 08:46:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 859.11 Mbit/s

95th percentile per-packet one-way delay: 293.529 ms

Loss rate: 2.85%

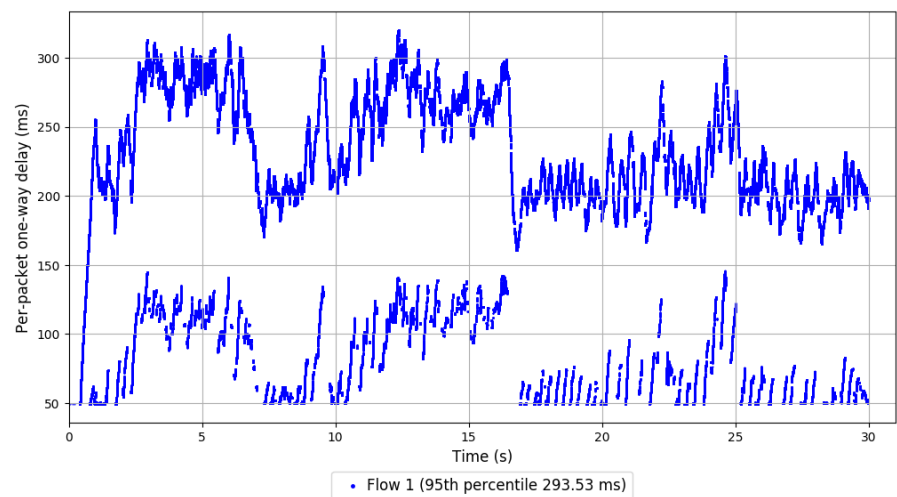
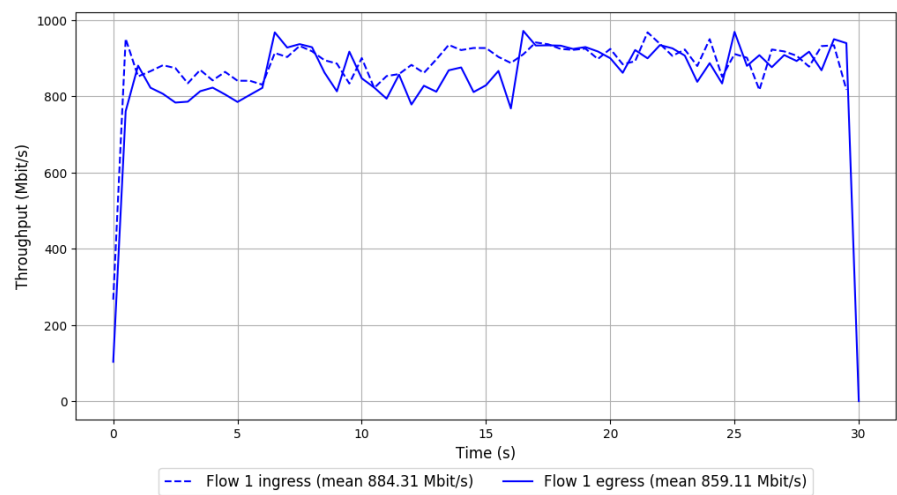
-- Flow 1:

Average throughput: 859.11 Mbit/s

95th percentile per-packet one-way delay: 293.529 ms

Loss rate: 2.85%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-20 05:37:55

End at: 2018-02-20 05:38:25

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 871.23 Mbit/s

95th percentile per-packet one-way delay: 290.460 ms

Loss rate: 6.59%

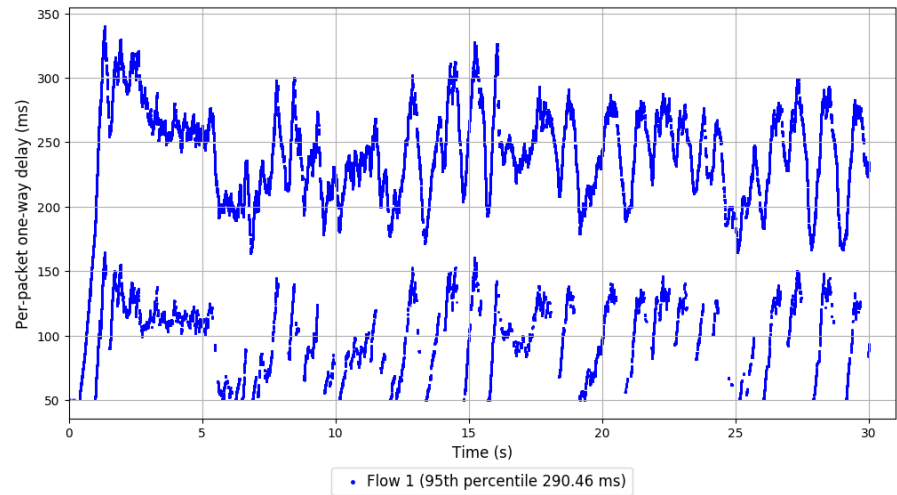
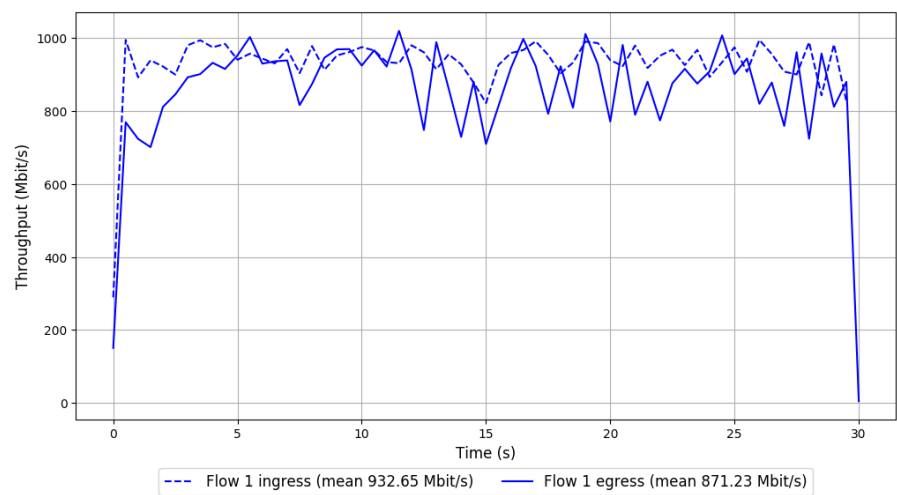
-- Flow 1:

Average throughput: 871.23 Mbit/s

95th percentile per-packet one-way delay: 290.460 ms

Loss rate: 6.59%

Run 10: Report of FillP — Data Link

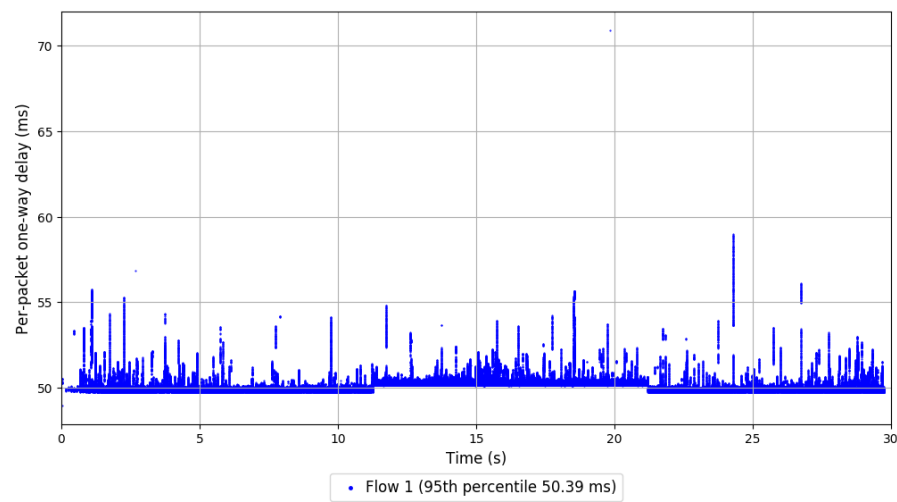
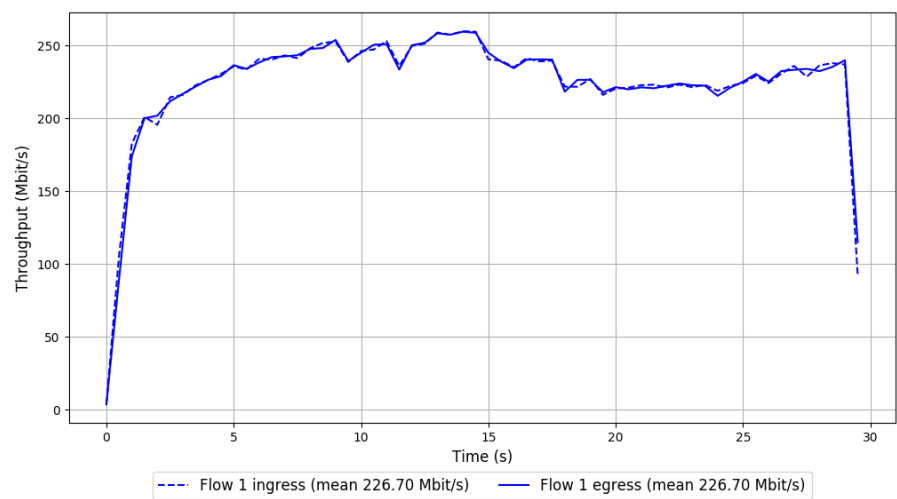


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-20 03:27:27
End at: 2018-02-20 03:27:57

# Below is generated by plot.py at 2018-02-20 08:47:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 50.389 ms
Loss rate: 0.00%
```

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

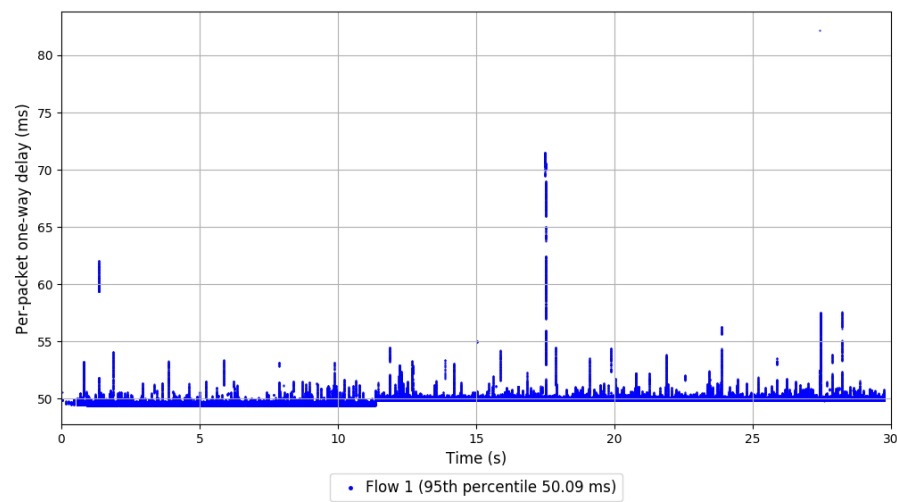
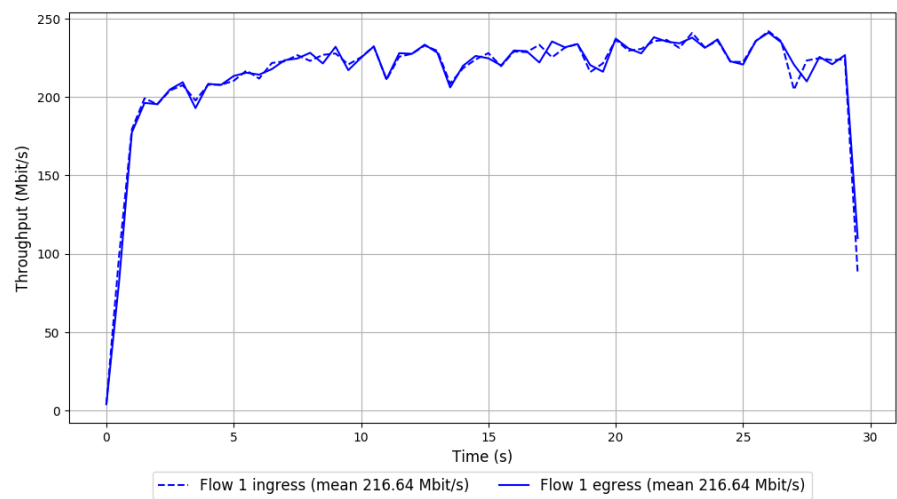


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-20 03:42:06
End at: 2018-02-20 03:42:36

# Below is generated by plot.py at 2018-02-20 08:47:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.64 Mbit/s
95th percentile per-packet one-way delay: 50.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.64 Mbit/s
95th percentile per-packet one-way delay: 50.090 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-20 03:56:57

End at: 2018-02-20 03:57:27

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.89 Mbit/s

95th percentile per-packet one-way delay: 49.922 ms

Loss rate: 0.00%

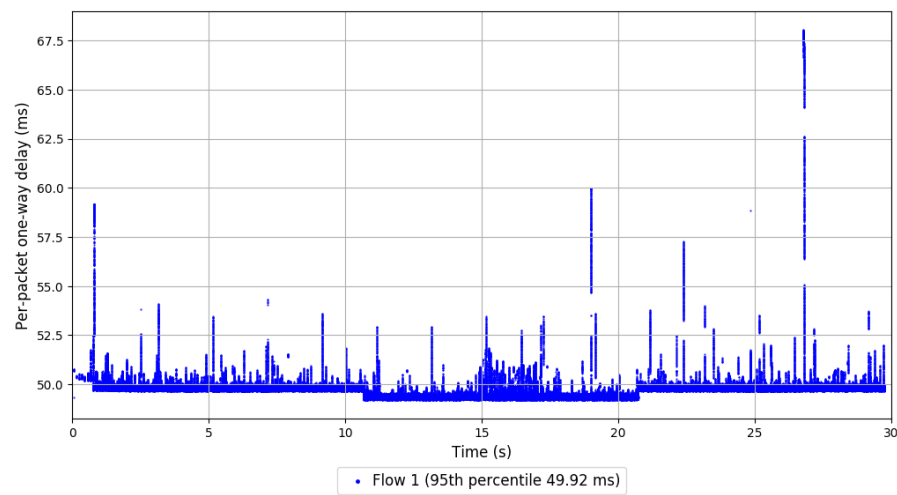
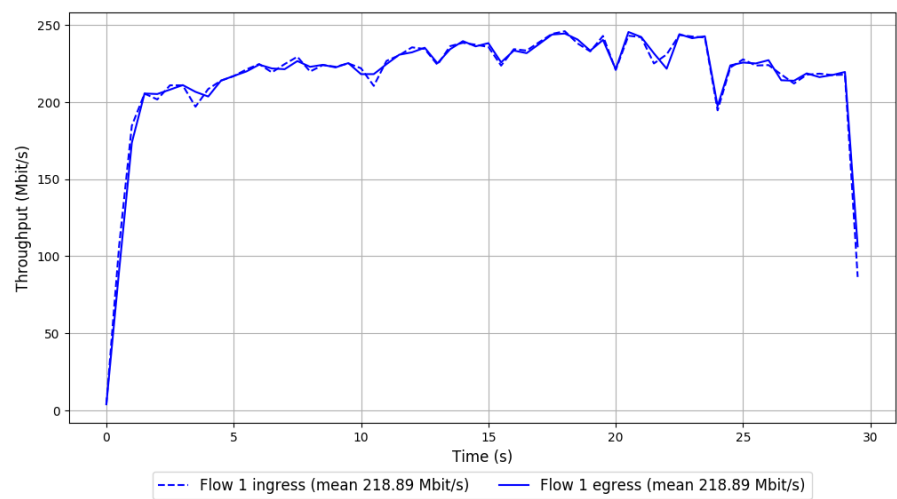
-- Flow 1:

Average throughput: 218.89 Mbit/s

95th percentile per-packet one-way delay: 49.922 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-20 04:12:01

End at: 2018-02-20 04:12:31

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.77 Mbit/s

95th percentile per-packet one-way delay: 49.921 ms

Loss rate: 0.00%

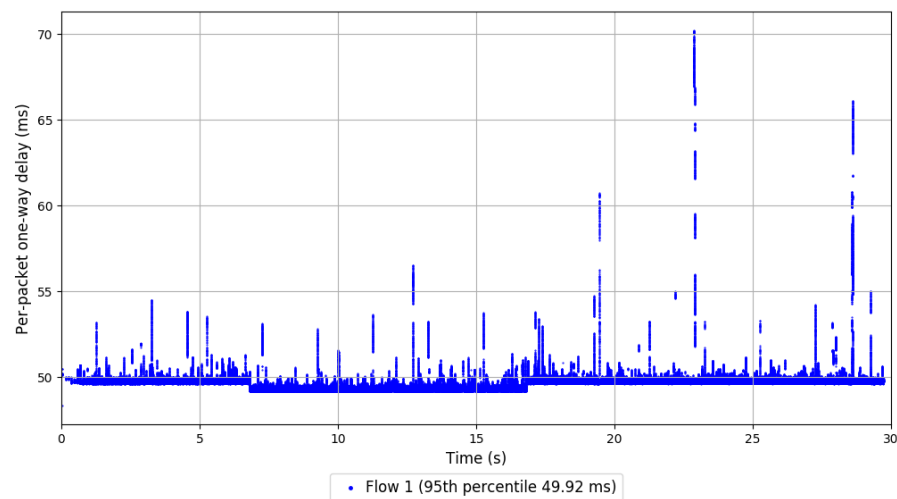
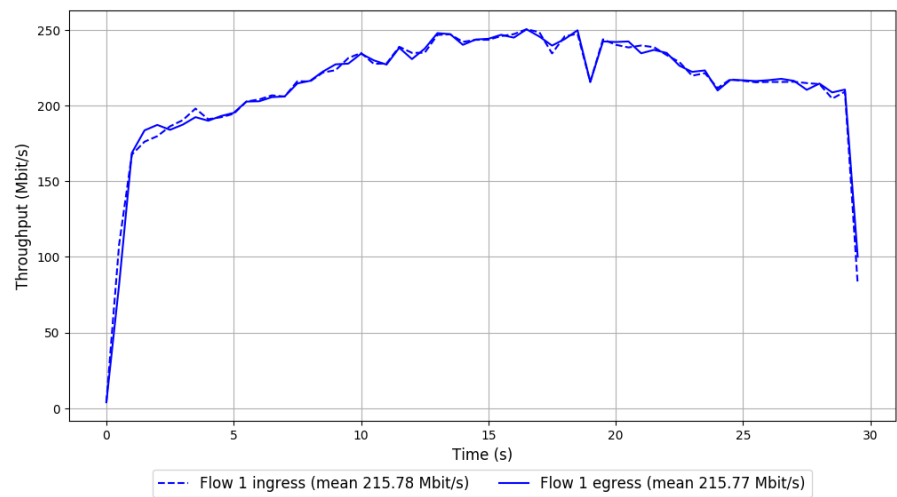
-- Flow 1:

Average throughput: 215.77 Mbit/s

95th percentile per-packet one-way delay: 49.921 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-20 04:26:58

End at: 2018-02-20 04:27:28

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.57 Mbit/s

95th percentile per-packet one-way delay: 49.810 ms

Loss rate: 0.00%

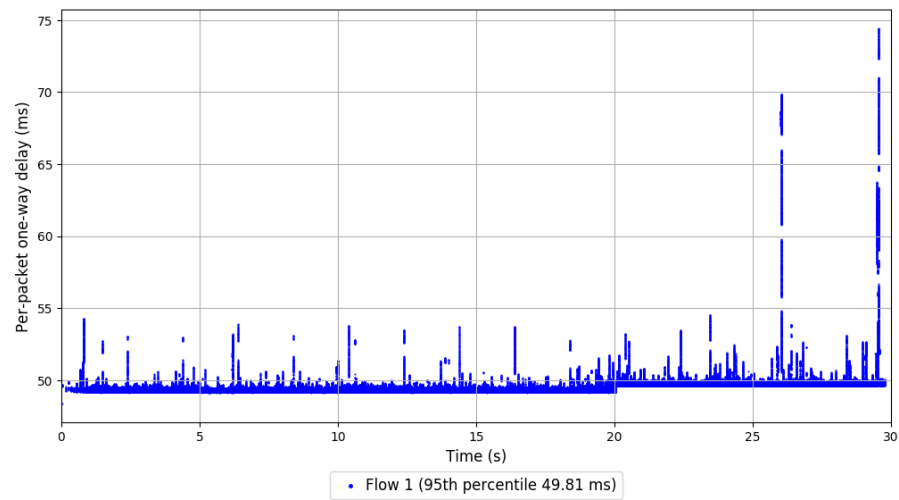
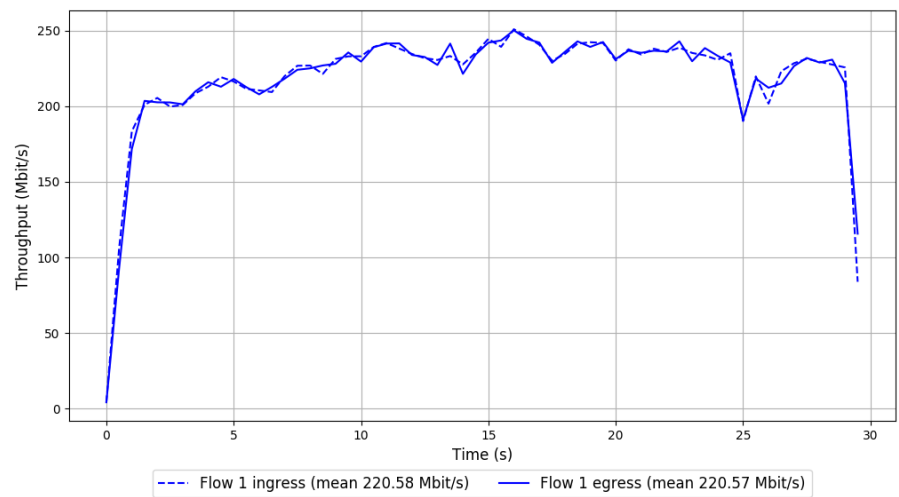
-- Flow 1:

Average throughput: 220.57 Mbit/s

95th percentile per-packet one-way delay: 49.810 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-20 04:41:45

End at: 2018-02-20 04:42:15

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.03 Mbit/s

95th percentile per-packet one-way delay: 50.526 ms

Loss rate: 0.00%

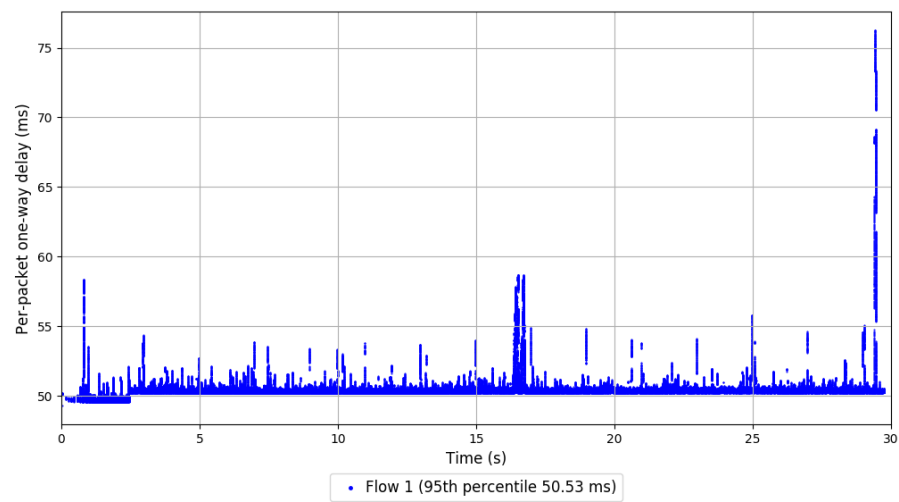
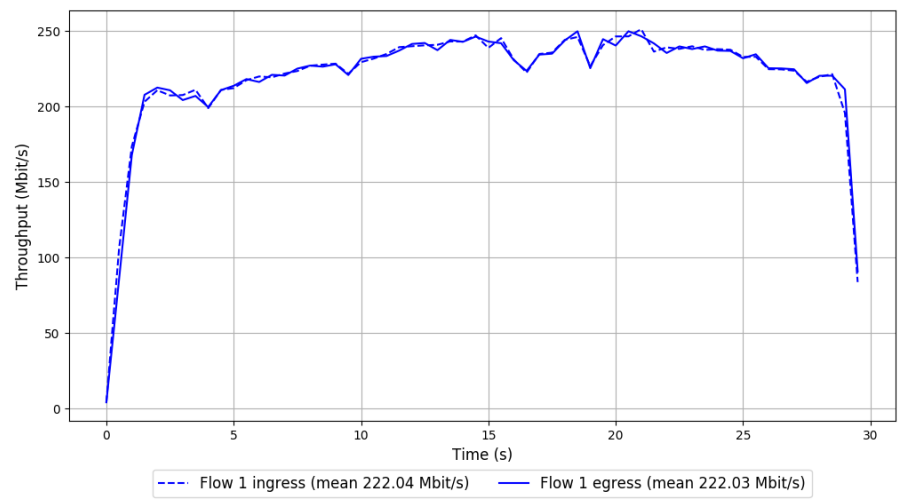
-- Flow 1:

Average throughput: 222.03 Mbit/s

95th percentile per-packet one-way delay: 50.526 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-20 04:56:40

End at: 2018-02-20 04:57:10

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.94 Mbit/s

95th percentile per-packet one-way delay: 50.527 ms

Loss rate: 0.00%

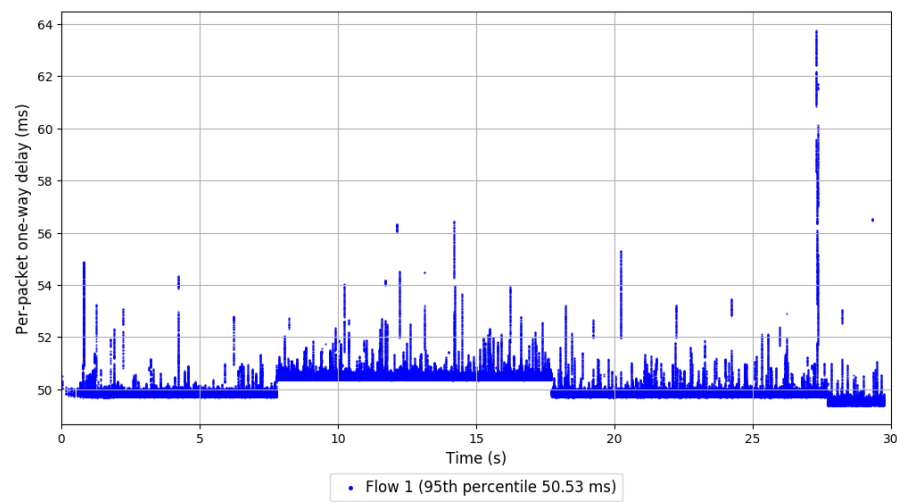
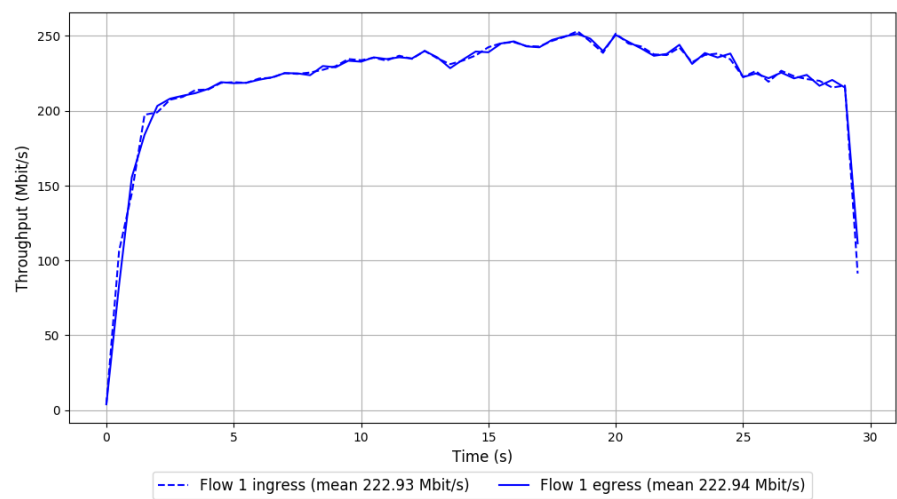
-- Flow 1:

Average throughput: 222.94 Mbit/s

95th percentile per-packet one-way delay: 50.527 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-20 05:11:41

End at: 2018-02-20 05:12:11

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.92 Mbit/s

95th percentile per-packet one-way delay: 50.599 ms

Loss rate: 0.00%

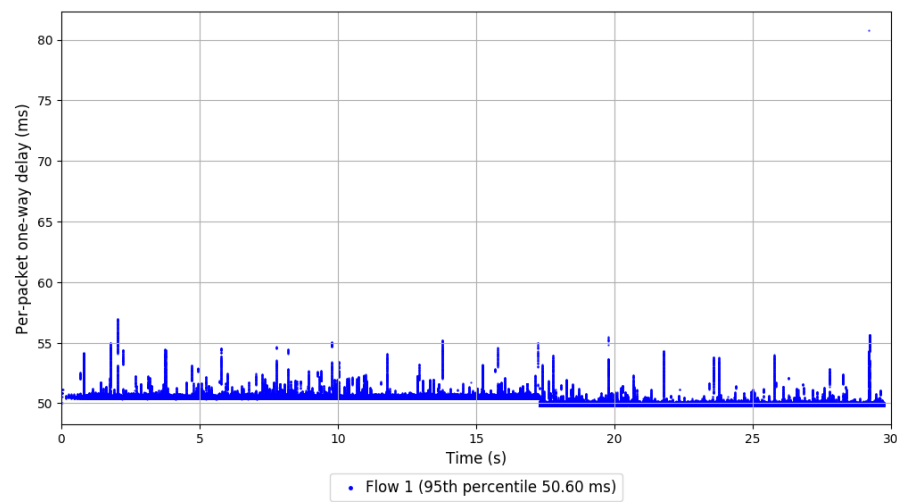
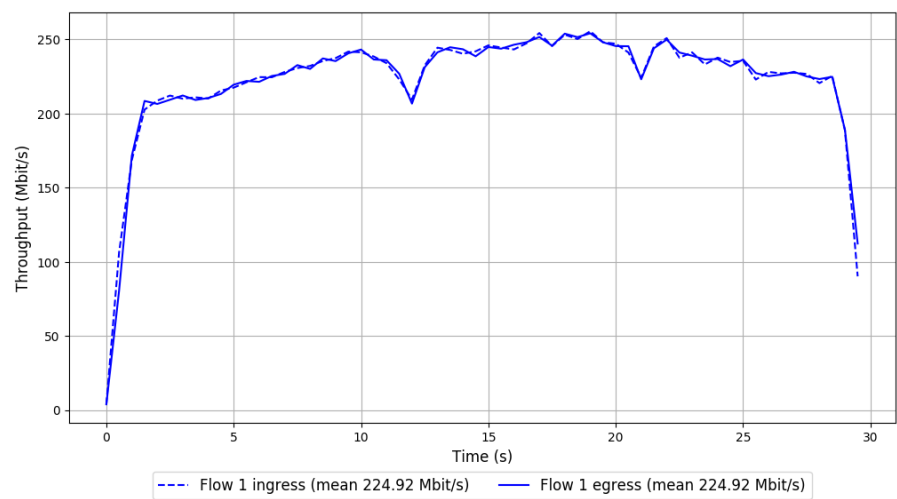
-- Flow 1:

Average throughput: 224.92 Mbit/s

95th percentile per-packet one-way delay: 50.599 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-20 05:26:32

End at: 2018-02-20 05:27:02

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.66 Mbit/s

95th percentile per-packet one-way delay: 50.720 ms

Loss rate: 0.00%

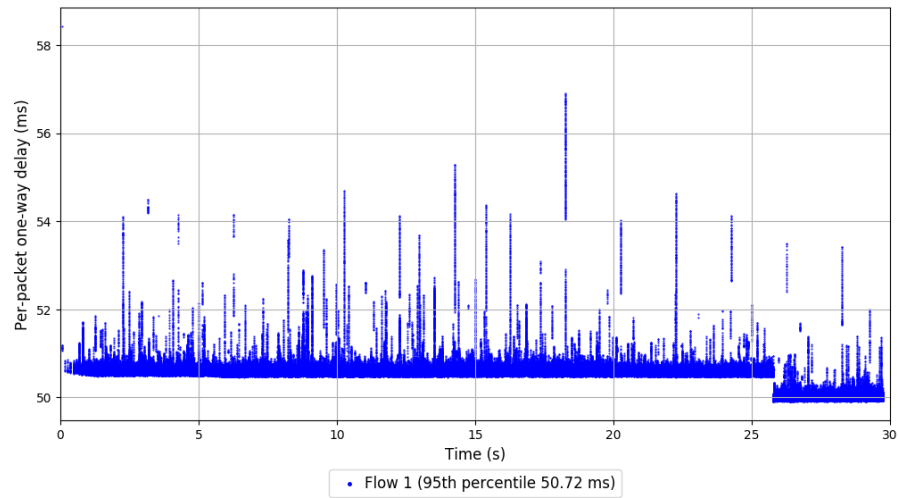
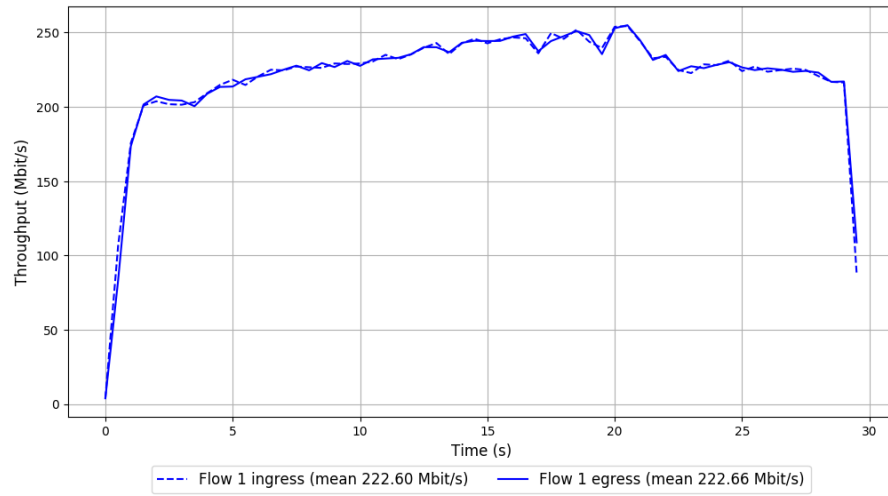
-- Flow 1:

Average throughput: 222.66 Mbit/s

95th percentile per-packet one-way delay: 50.720 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-20 05:41:24

End at: 2018-02-20 05:41:54

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.28 Mbit/s

95th percentile per-packet one-way delay: 50.805 ms

Loss rate: 0.00%

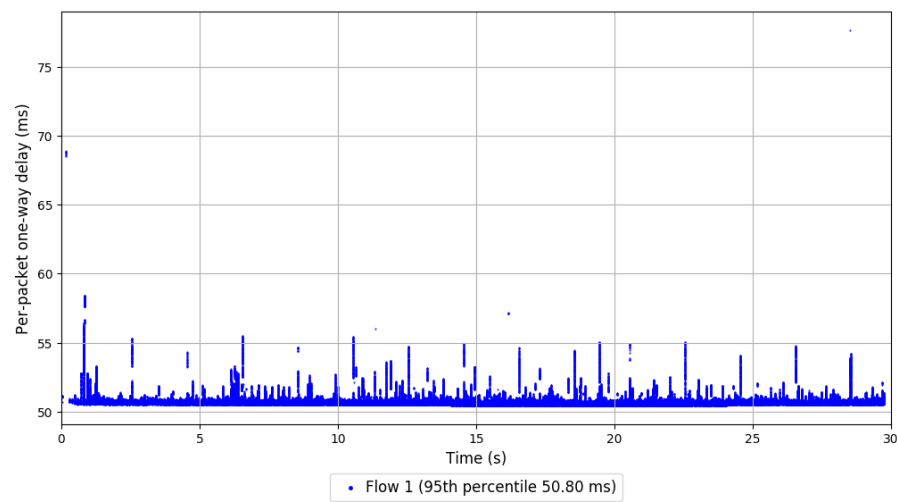
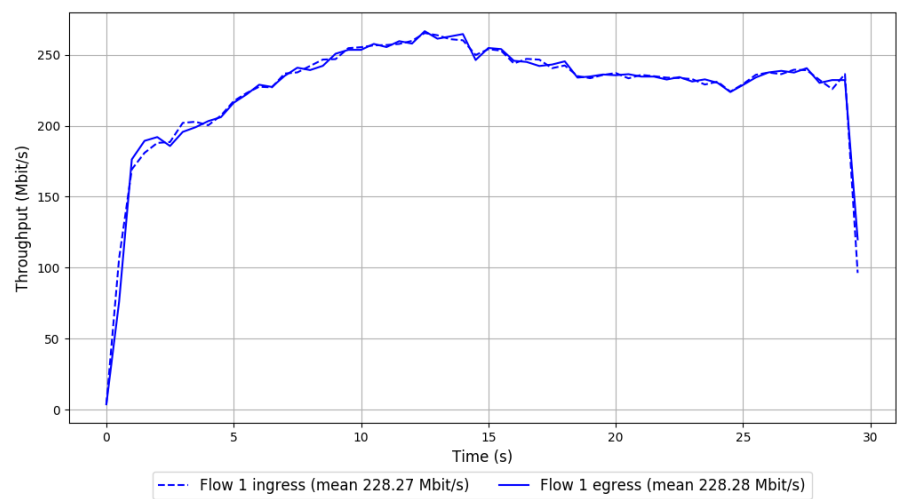
-- Flow 1:

Average throughput: 228.28 Mbit/s

95th percentile per-packet one-way delay: 50.805 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-20 03:22:11

End at: 2018-02-20 03:22:41

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.86 Mbit/s

95th percentile per-packet one-way delay: 53.244 ms

Loss rate: 0.00%

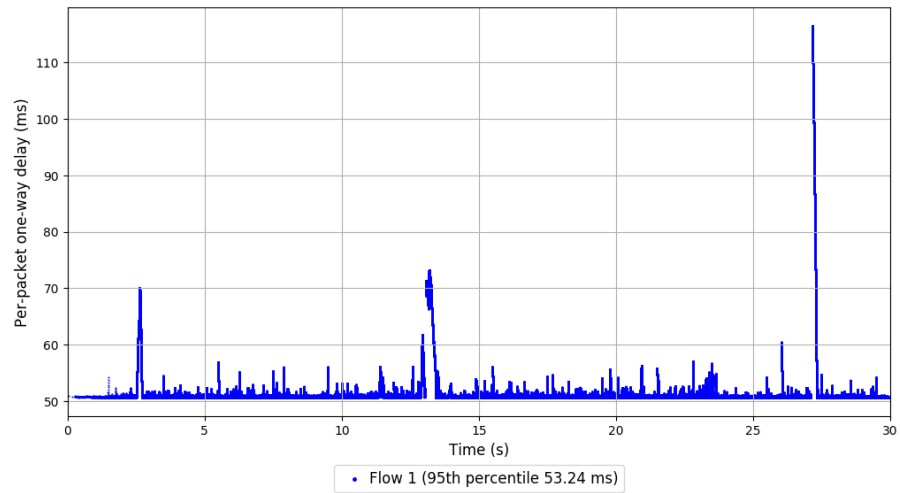
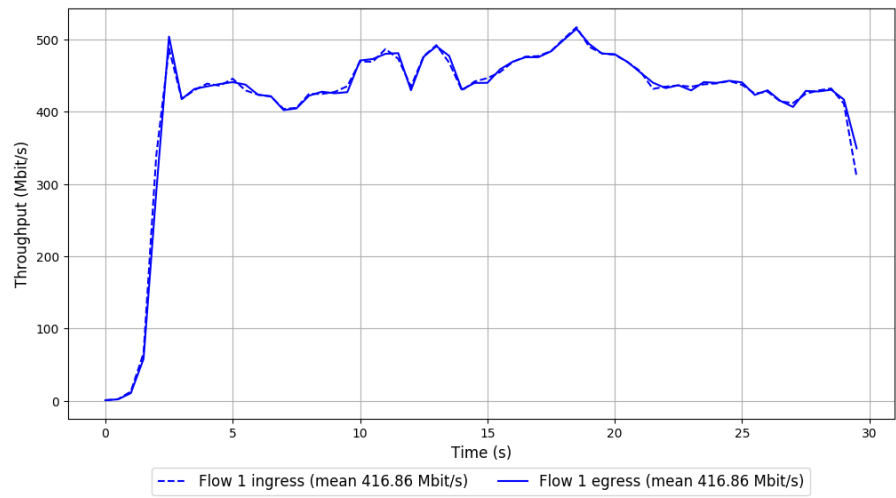
-- Flow 1:

Average throughput: 416.86 Mbit/s

95th percentile per-packet one-way delay: 53.244 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-20 03:37:01

End at: 2018-02-20 03:37:31

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.74 Mbit/s

95th percentile per-packet one-way delay: 50.784 ms

Loss rate: 0.00%

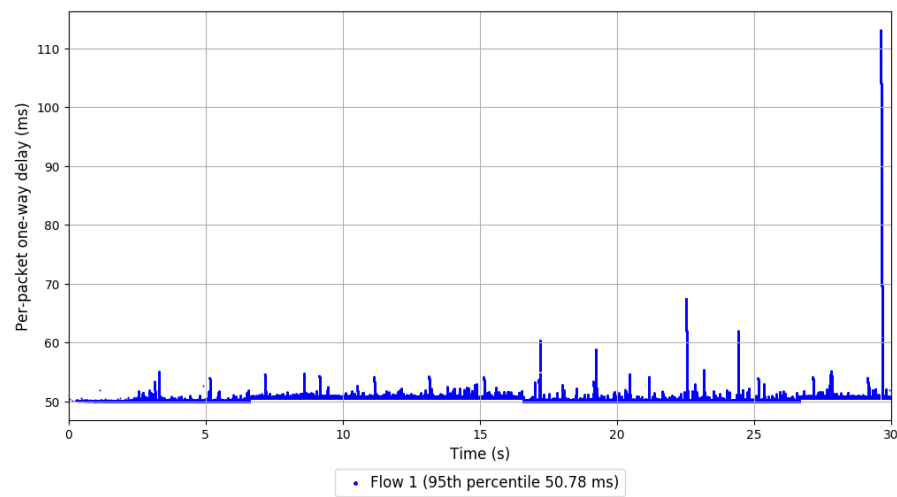
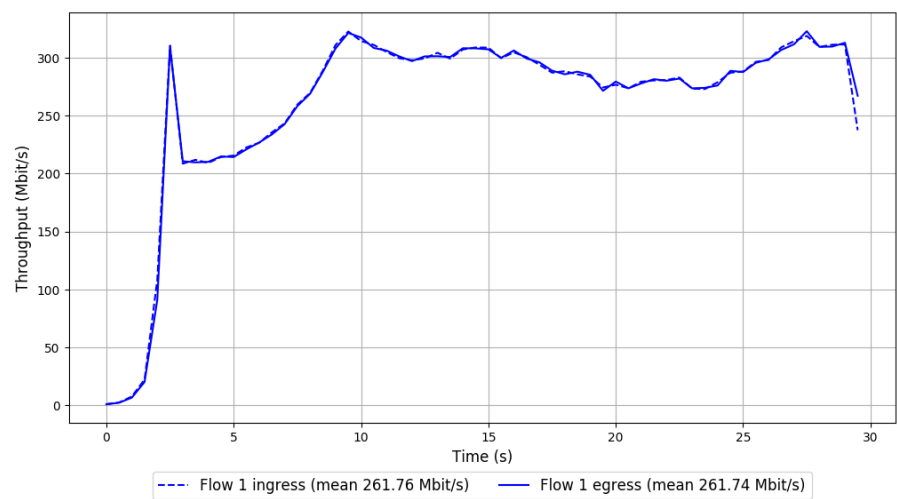
-- Flow 1:

Average throughput: 261.74 Mbit/s

95th percentile per-packet one-way delay: 50.784 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-20 03:51:43

End at: 2018-02-20 03:52:13

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.87 Mbit/s

95th percentile per-packet one-way delay: 50.368 ms

Loss rate: 0.00%

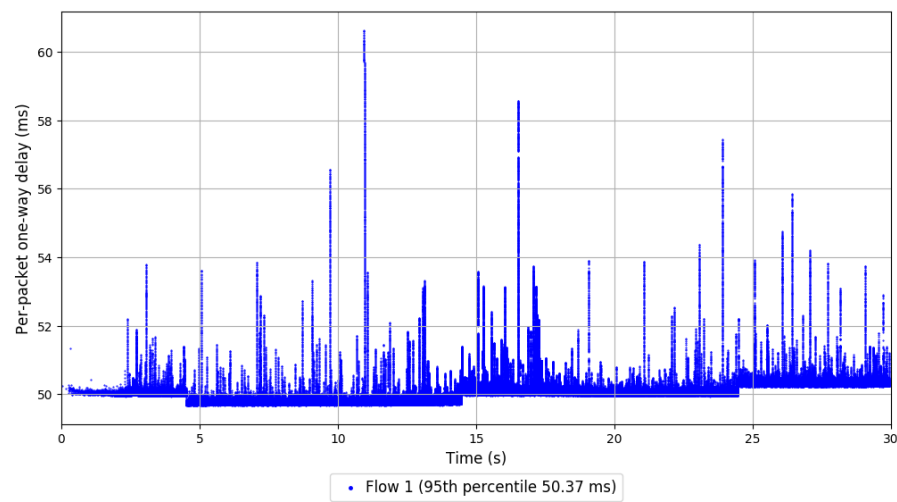
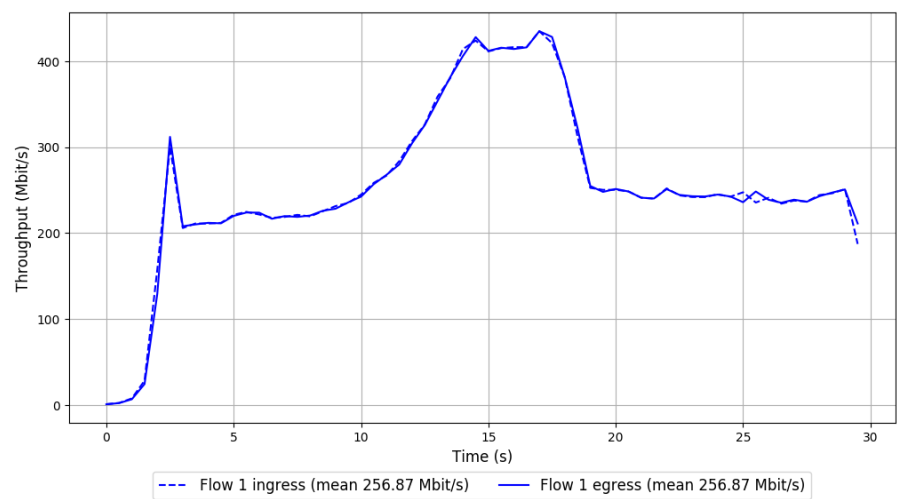
-- Flow 1:

Average throughput: 256.87 Mbit/s

95th percentile per-packet one-way delay: 50.368 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-20 04:06:35

End at: 2018-02-20 04:07:05

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.81 Mbit/s

95th percentile per-packet one-way delay: 50.622 ms

Loss rate: 0.00%

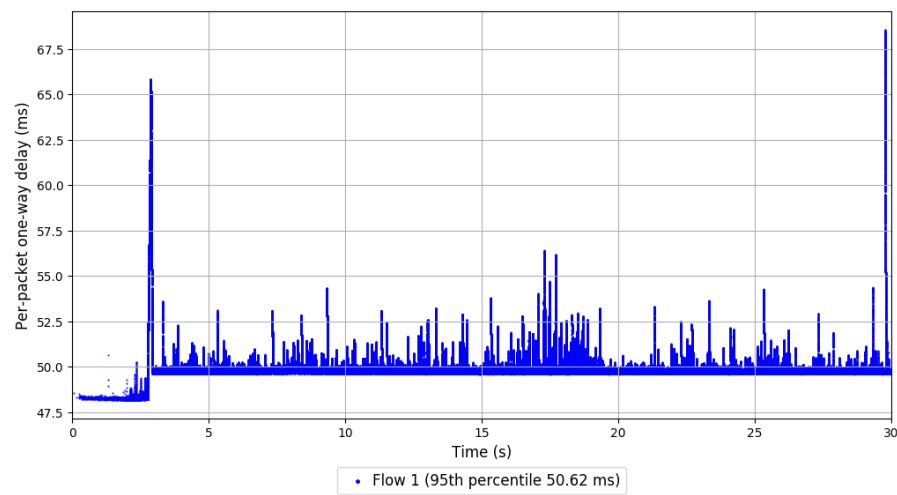
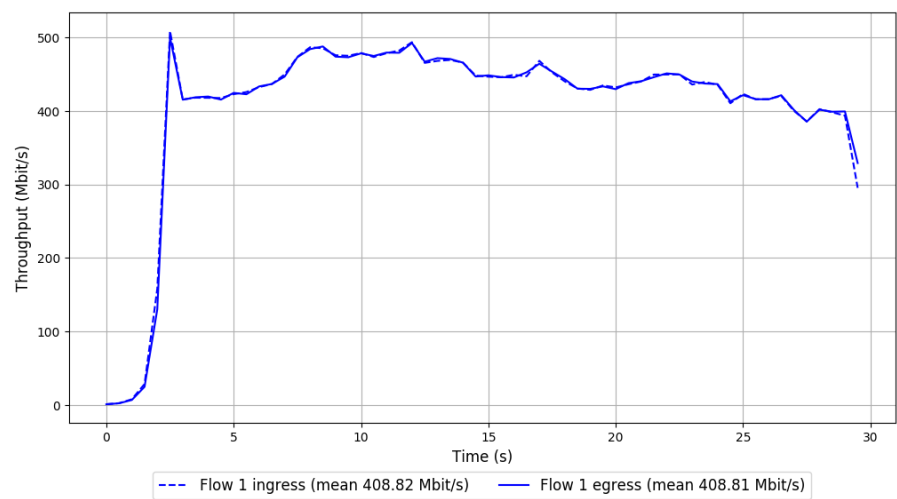
-- Flow 1:

Average throughput: 408.81 Mbit/s

95th percentile per-packet one-way delay: 50.622 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-20 04:21:33

End at: 2018-02-20 04:22:03

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.19 Mbit/s

95th percentile per-packet one-way delay: 49.180 ms

Loss rate: 0.00%

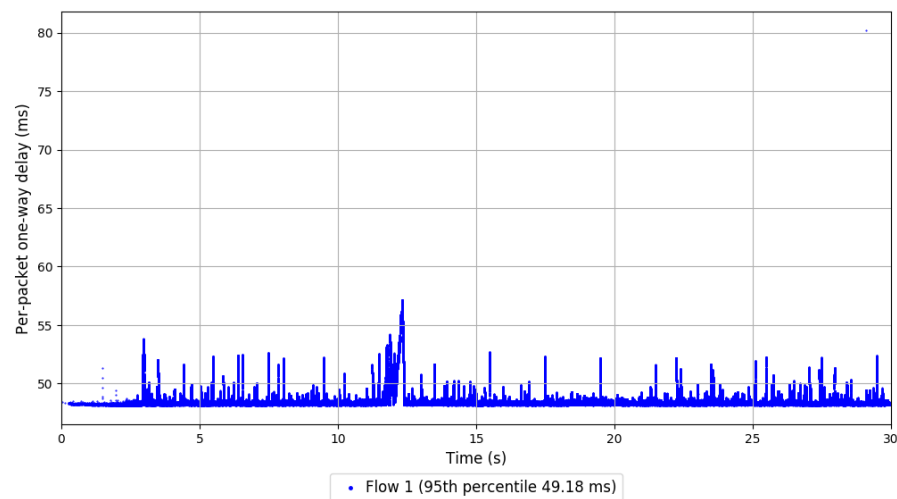
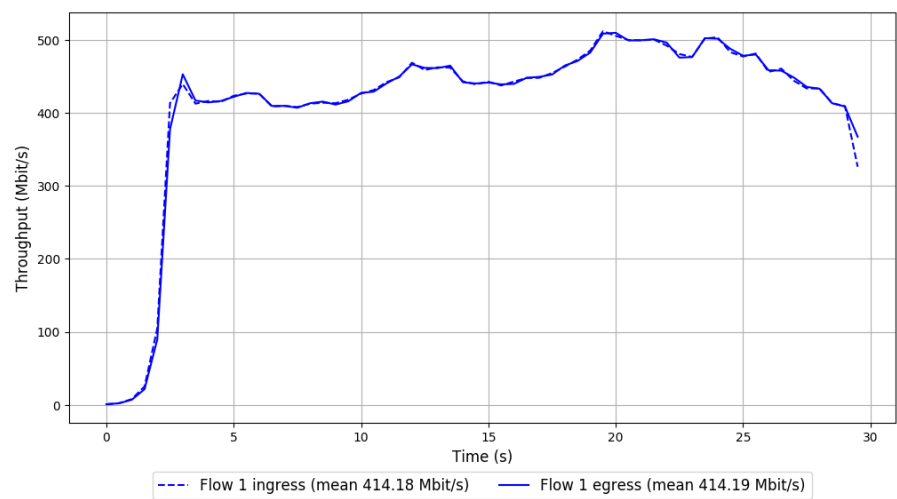
-- Flow 1:

Average throughput: 414.19 Mbit/s

95th percentile per-packet one-way delay: 49.180 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-20 04:36:26

End at: 2018-02-20 04:36:56

Below is generated by plot.py at 2018-02-20 08:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.30 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.00%

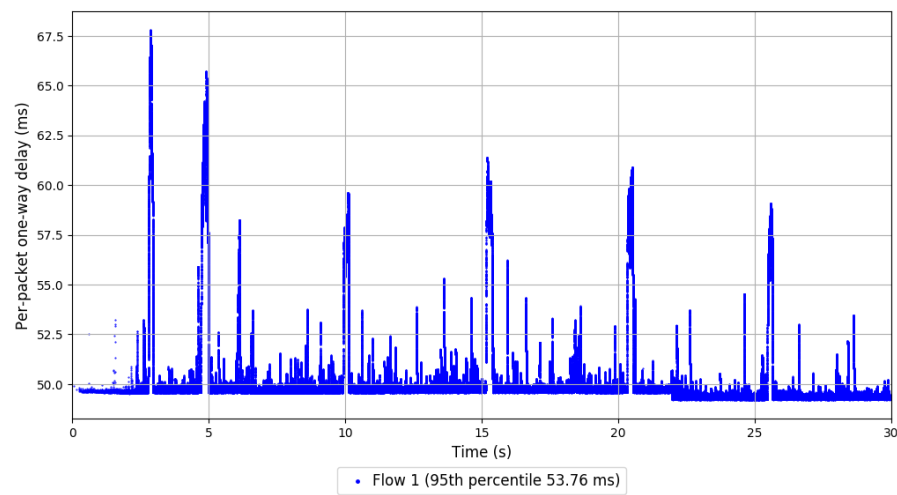
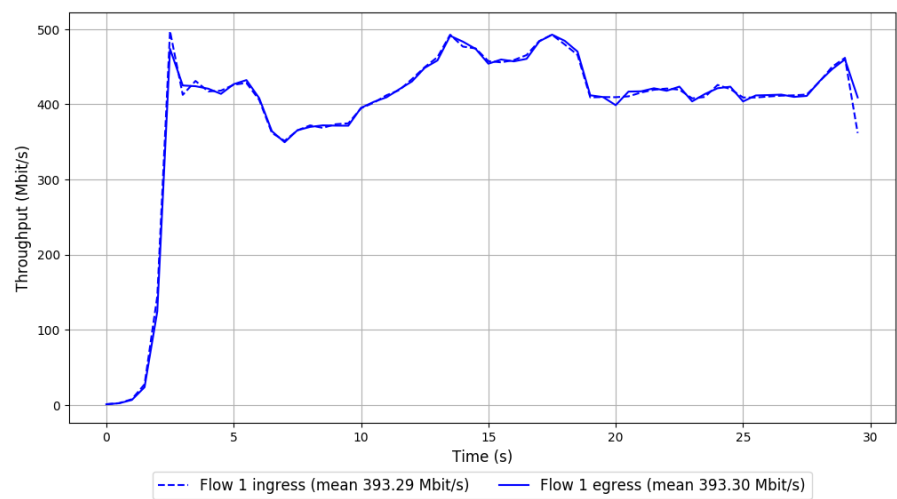
-- Flow 1:

Average throughput: 393.30 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-20 04:51:16

End at: 2018-02-20 04:51:46

Below is generated by plot.py at 2018-02-20 08:50:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.85 Mbit/s

95th percentile per-packet one-way delay: 51.719 ms

Loss rate: 0.00%

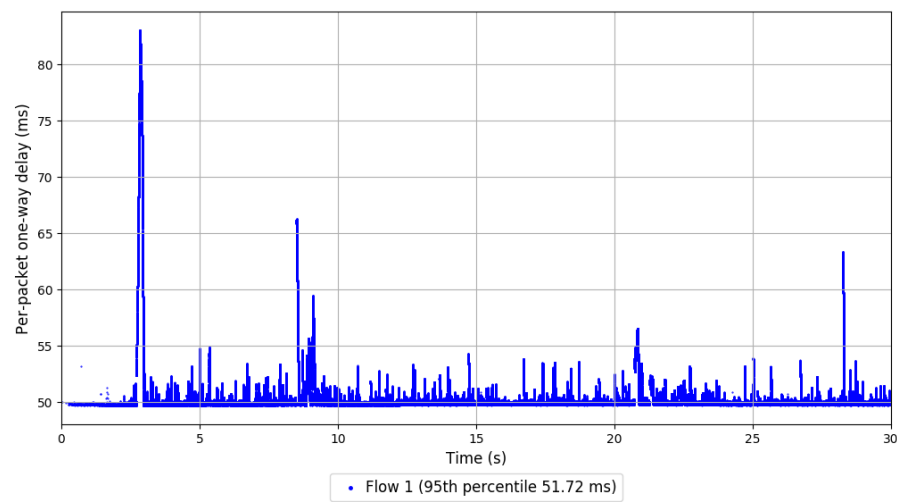
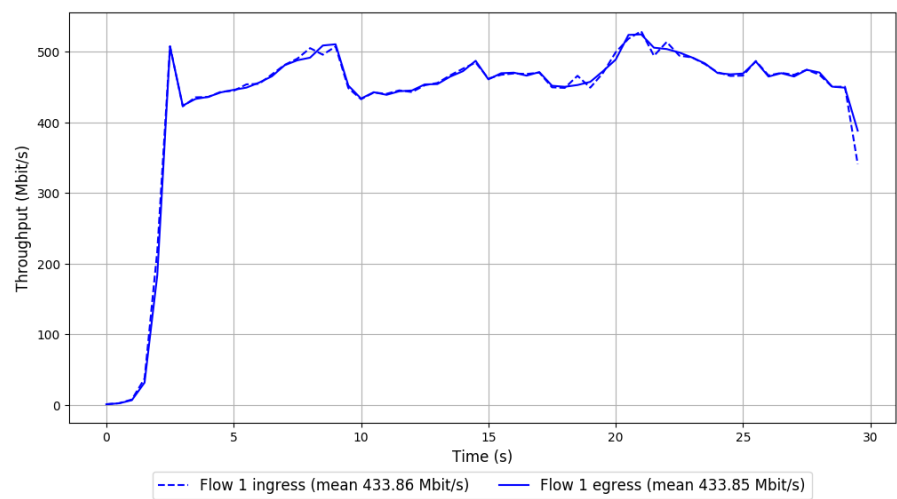
-- Flow 1:

Average throughput: 433.85 Mbit/s

95th percentile per-packet one-way delay: 51.719 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-20 05:06:18

End at: 2018-02-20 05:06:48

Below is generated by plot.py at 2018-02-20 08:50:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.70 Mbit/s

95th percentile per-packet one-way delay: 53.522 ms

Loss rate: 0.00%

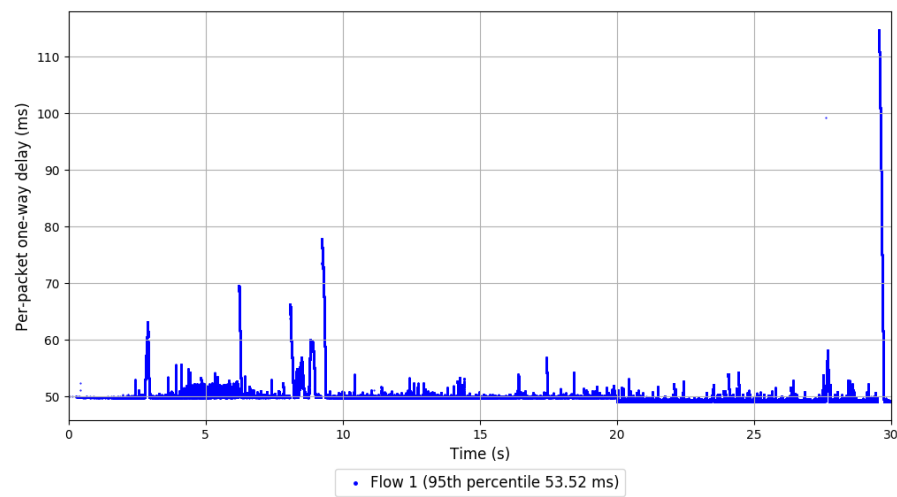
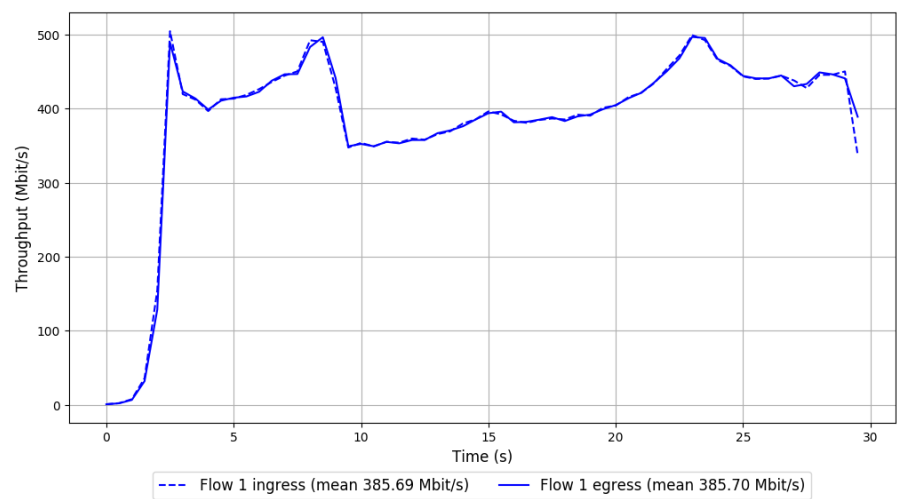
-- Flow 1:

Average throughput: 385.70 Mbit/s

95th percentile per-packet one-way delay: 53.522 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-20 05:21:15

End at: 2018-02-20 05:21:45

Below is generated by plot.py at 2018-02-20 08:52:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.43 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 0.00%

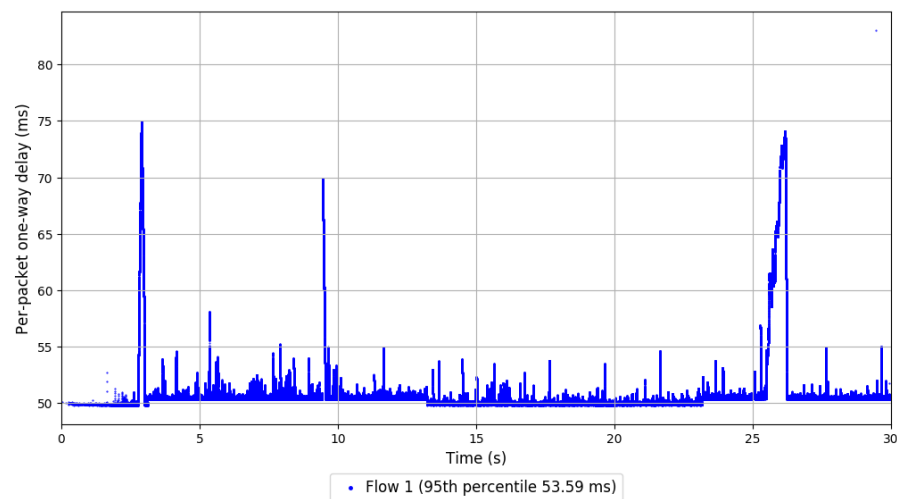
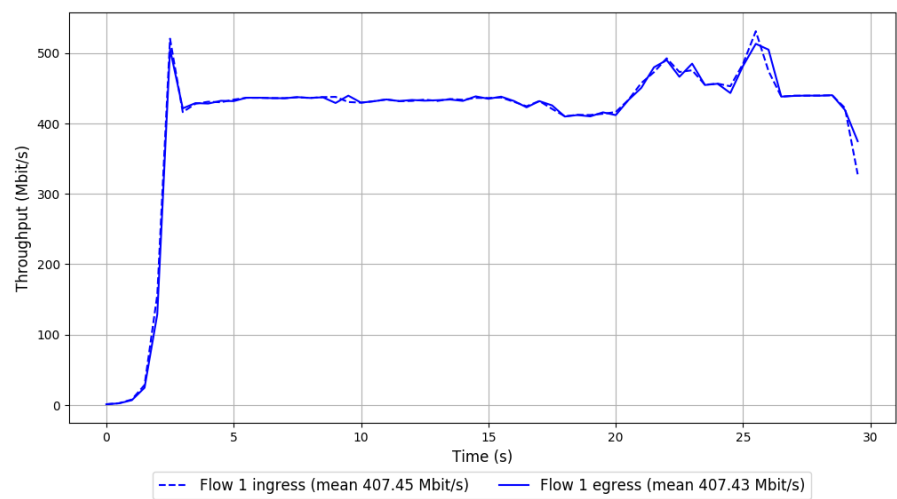
-- Flow 1:

Average throughput: 407.43 Mbit/s

95th percentile per-packet one-way delay: 53.588 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-20 05:36:13

End at: 2018-02-20 05:36:43

Below is generated by plot.py at 2018-02-20 08:53:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.83 Mbit/s

95th percentile per-packet one-way delay: 51.674 ms

Loss rate: 0.00%

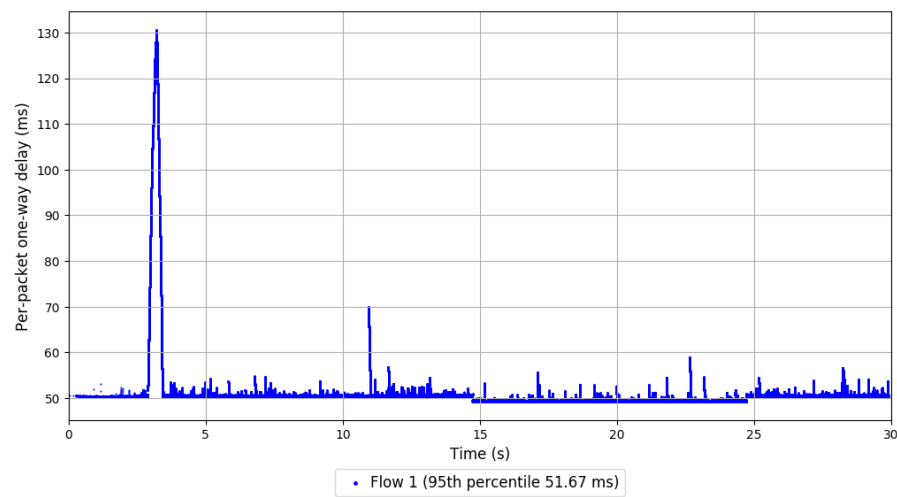
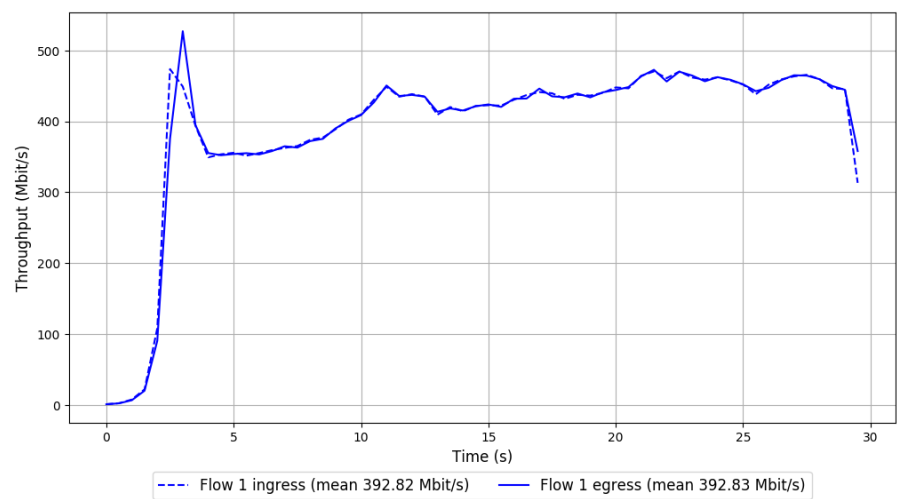
-- Flow 1:

Average throughput: 392.83 Mbit/s

95th percentile per-packet one-way delay: 51.674 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

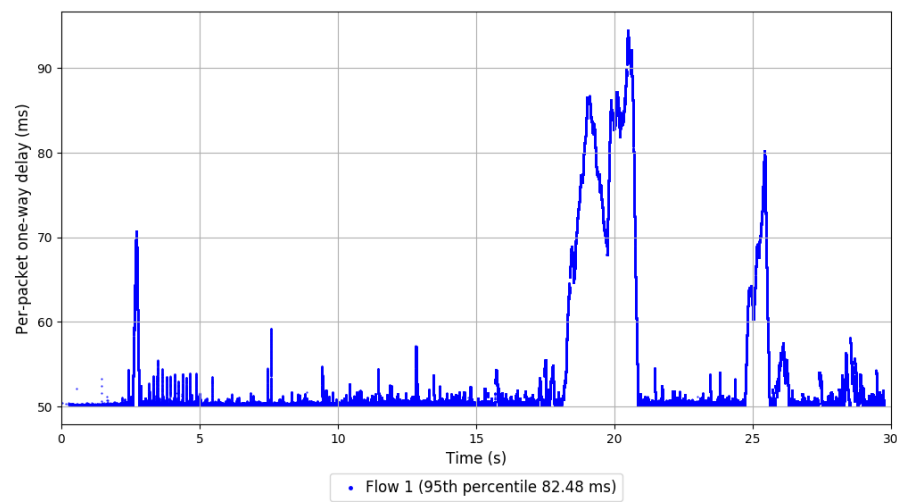
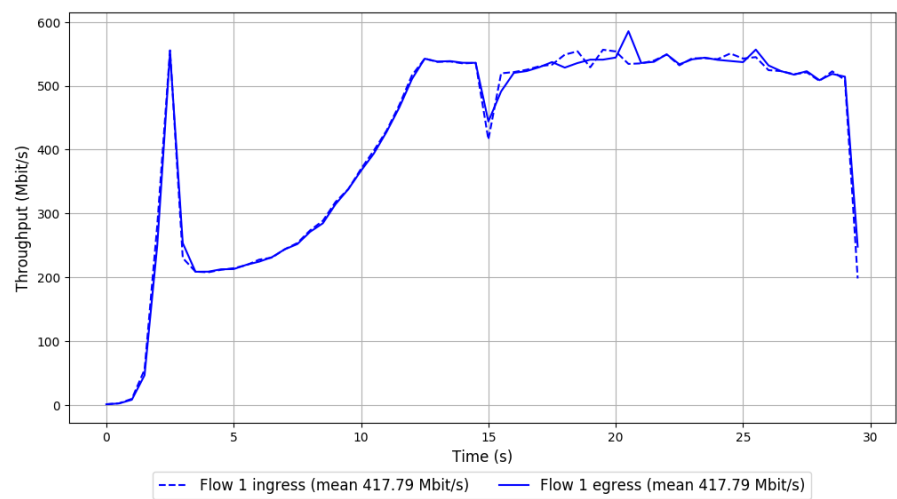


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-20 03:15:27
End at: 2018-02-20 03:15:57

# Below is generated by plot.py at 2018-02-20 08:54:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.79 Mbit/s
95th percentile per-packet one-way delay: 82.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 417.79 Mbit/s
95th percentile per-packet one-way delay: 82.479 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link

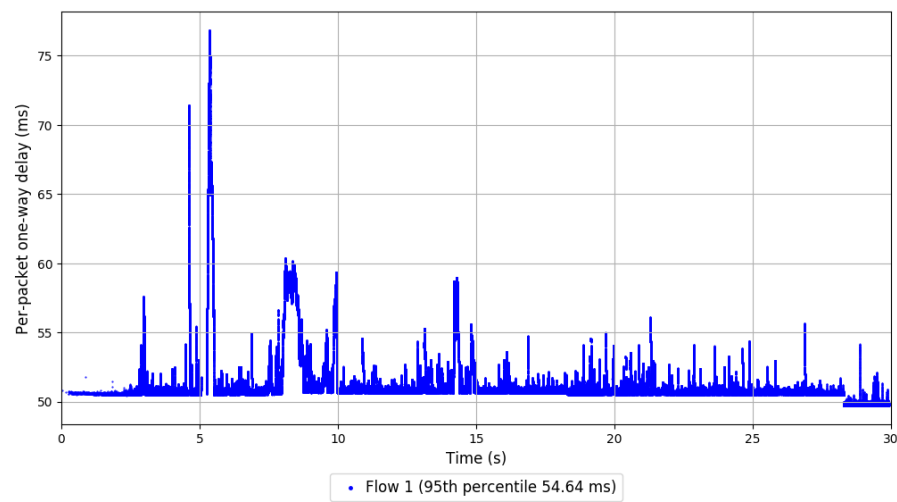
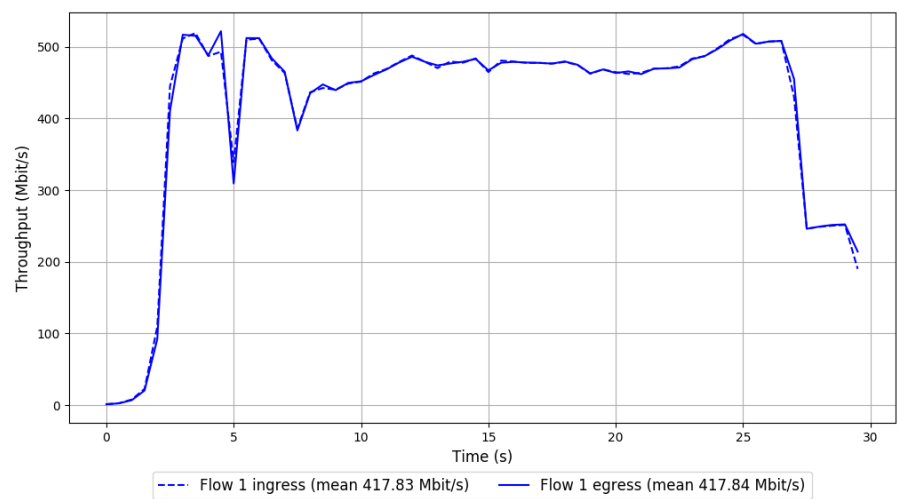


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-20 03:30:20
End at: 2018-02-20 03:30:50

# Below is generated by plot.py at 2018-02-20 08:54:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.84 Mbit/s
95th percentile per-packet one-way delay: 54.636 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 417.84 Mbit/s
95th percentile per-packet one-way delay: 54.636 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-20 03:44:58

End at: 2018-02-20 03:45:28

Below is generated by plot.py at 2018-02-20 08:54:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 457.48 Mbit/s

95th percentile per-packet one-way delay: 70.293 ms

Loss rate: 0.00%

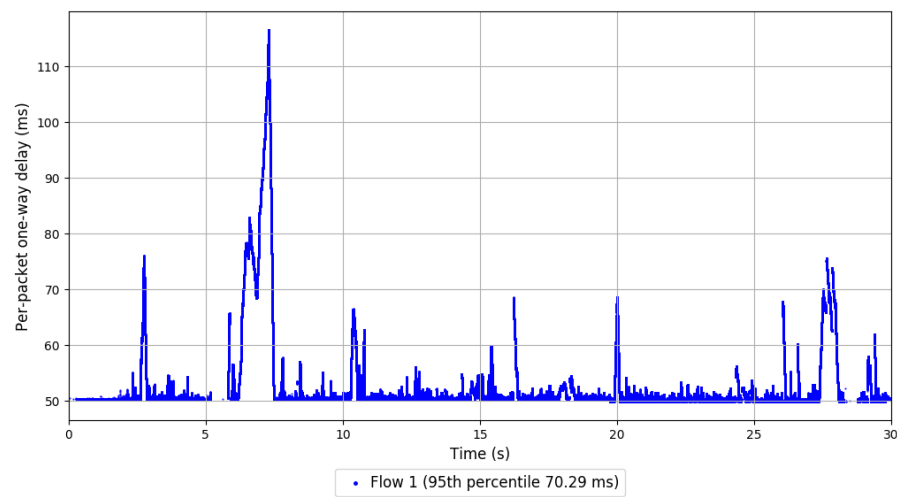
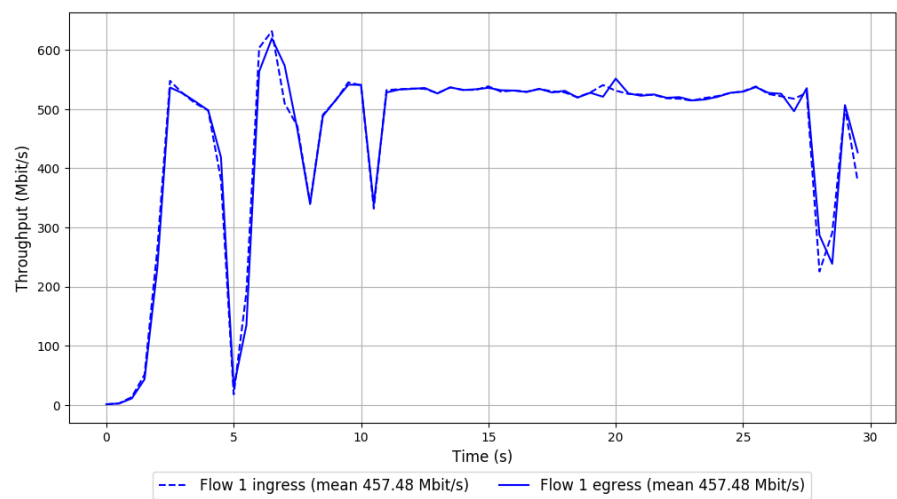
-- Flow 1:

Average throughput: 457.48 Mbit/s

95th percentile per-packet one-way delay: 70.293 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-20 03:59:49

End at: 2018-02-20 04:00:19

Below is generated by plot.py at 2018-02-20 08:56:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.66 Mbit/s

95th percentile per-packet one-way delay: 56.666 ms

Loss rate: 0.01%

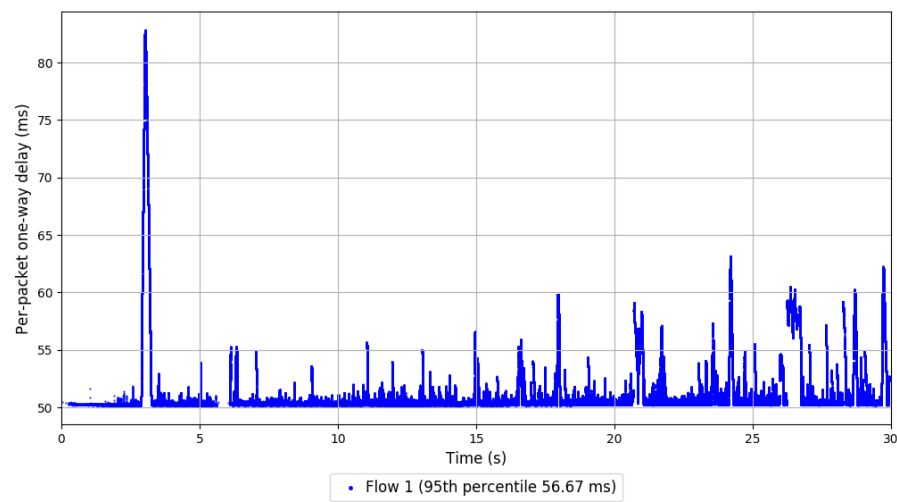
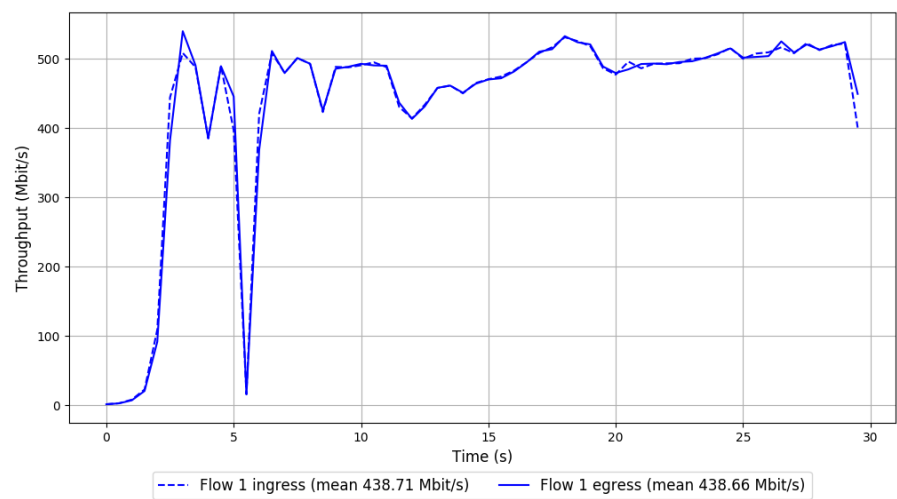
-- Flow 1:

Average throughput: 438.66 Mbit/s

95th percentile per-packet one-way delay: 56.666 ms

Loss rate: 0.01%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-20 04:14:53

End at: 2018-02-20 04:15:23

Below is generated by plot.py at 2018-02-20 08:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.40 Mbit/s

95th percentile per-packet one-way delay: 80.924 ms

Loss rate: 0.00%

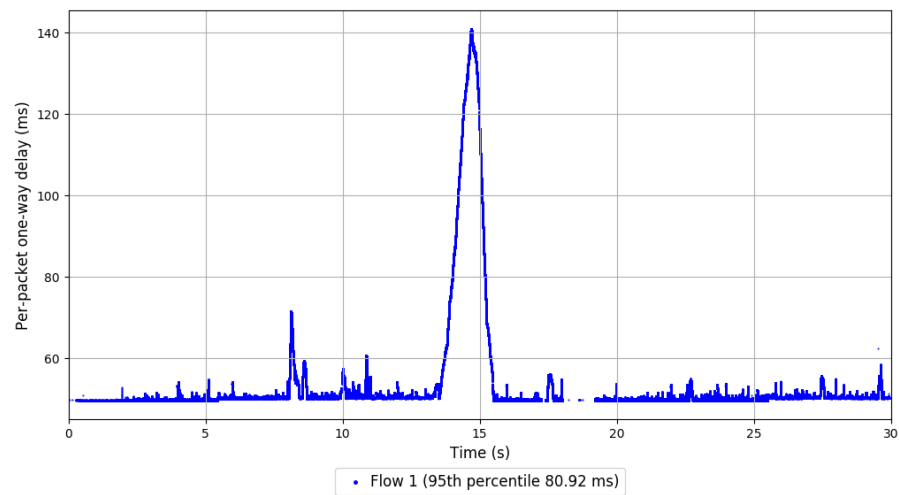
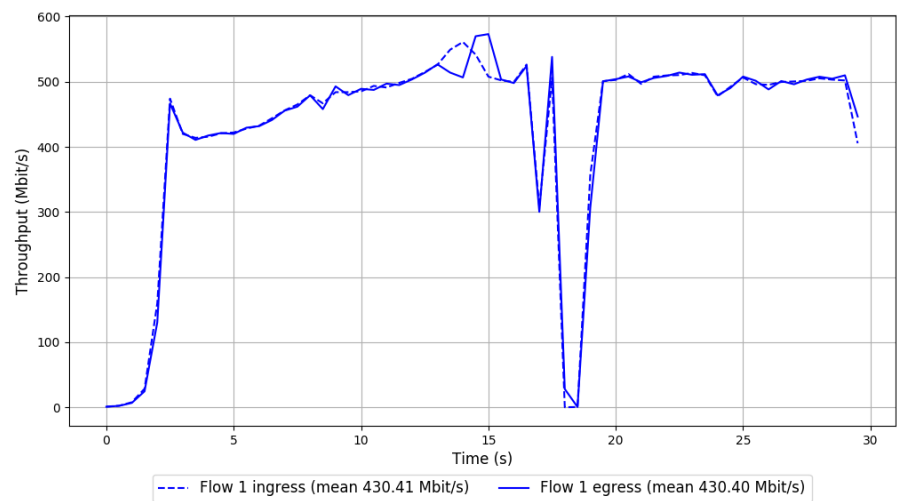
-- Flow 1:

Average throughput: 430.40 Mbit/s

95th percentile per-packet one-way delay: 80.924 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-20 04:29:46

End at: 2018-02-20 04:30:16

Below is generated by plot.py at 2018-02-20 08:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.34 Mbit/s

95th percentile per-packet one-way delay: 130.894 ms

Loss rate: 0.00%

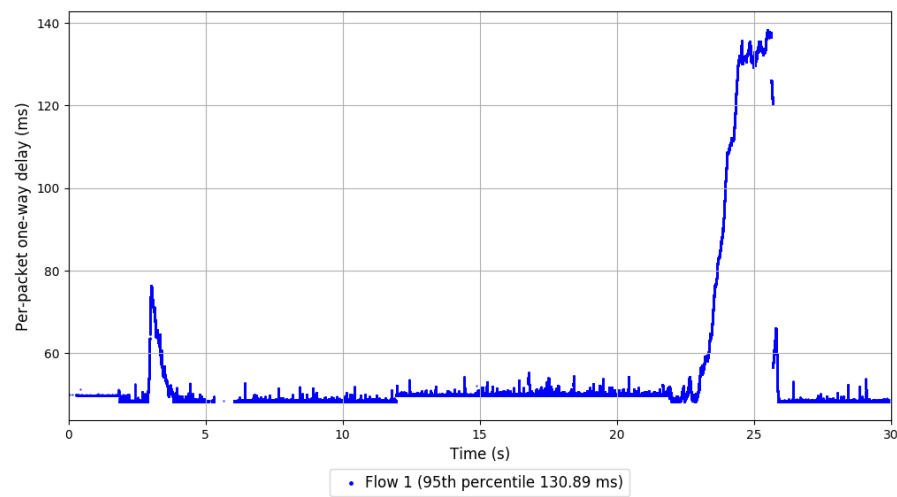
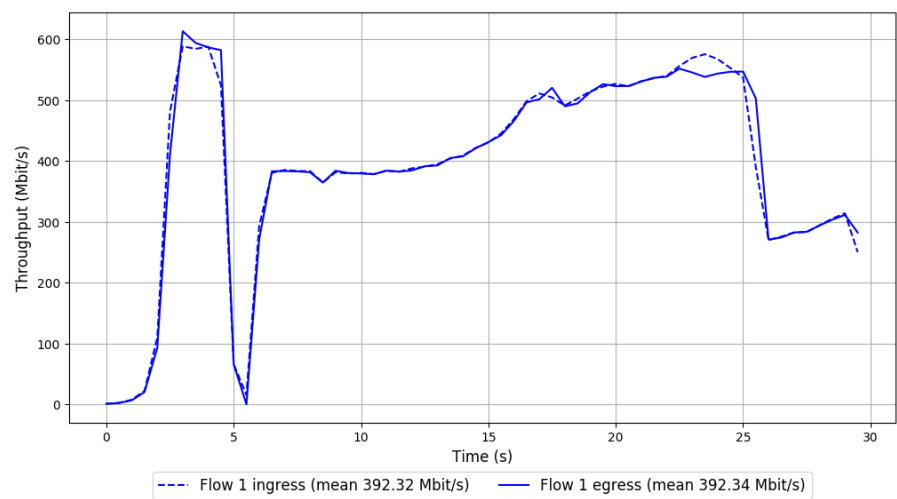
-- Flow 1:

Average throughput: 392.34 Mbit/s

95th percentile per-packet one-way delay: 130.894 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-20 04:44:35

End at: 2018-02-20 04:45:05

Below is generated by plot.py at 2018-02-20 08:59:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.21 Mbit/s

95th percentile per-packet one-way delay: 56.720 ms

Loss rate: 0.00%

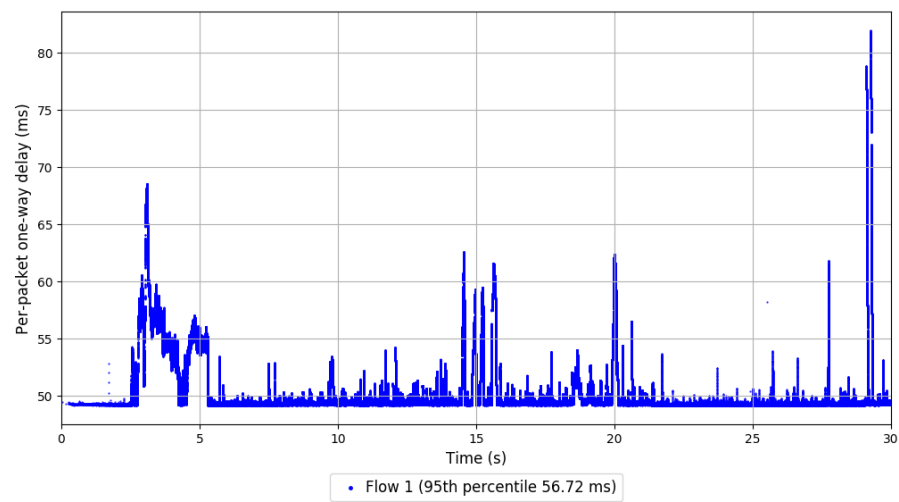
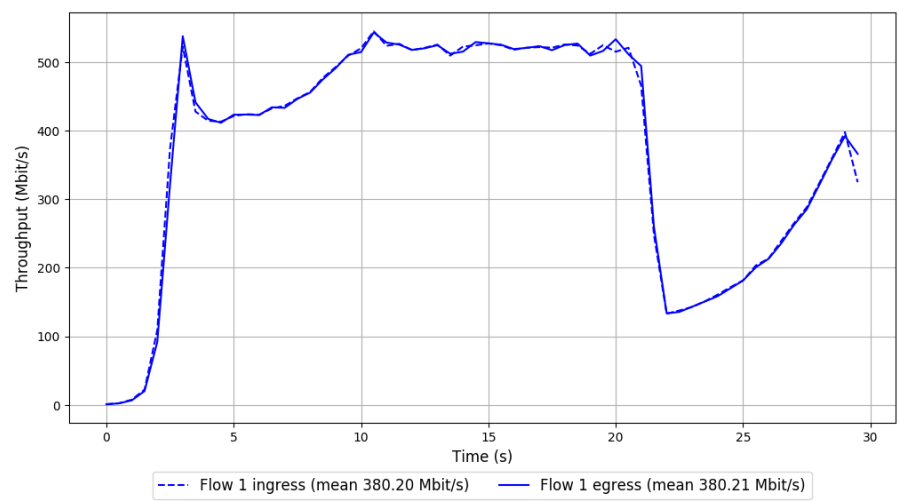
-- Flow 1:

Average throughput: 380.21 Mbit/s

95th percentile per-packet one-way delay: 56.720 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-20 04:59:33

End at: 2018-02-20 05:00:03

Below is generated by plot.py at 2018-02-20 09:01:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.12 Mbit/s

95th percentile per-packet one-way delay: 51.213 ms

Loss rate: 0.01%

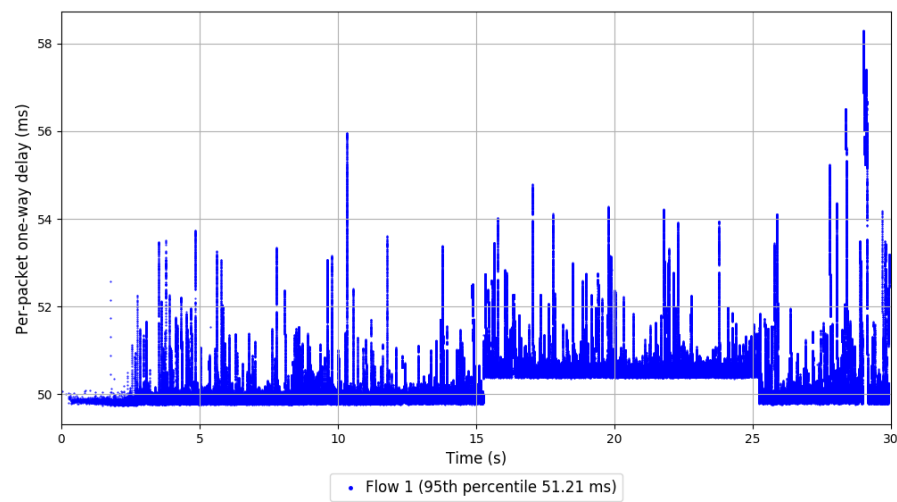
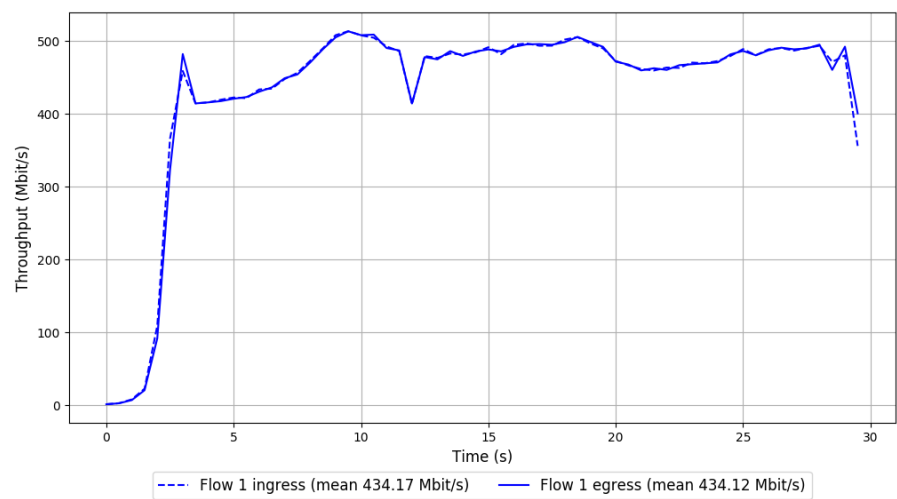
-- Flow 1:

Average throughput: 434.12 Mbit/s

95th percentile per-packet one-way delay: 51.213 ms

Loss rate: 0.01%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-20 05:14:31

End at: 2018-02-20 05:15:01

Below is generated by plot.py at 2018-02-20 09:02:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 449.49 Mbit/s

95th percentile per-packet one-way delay: 62.118 ms

Loss rate: 0.04%

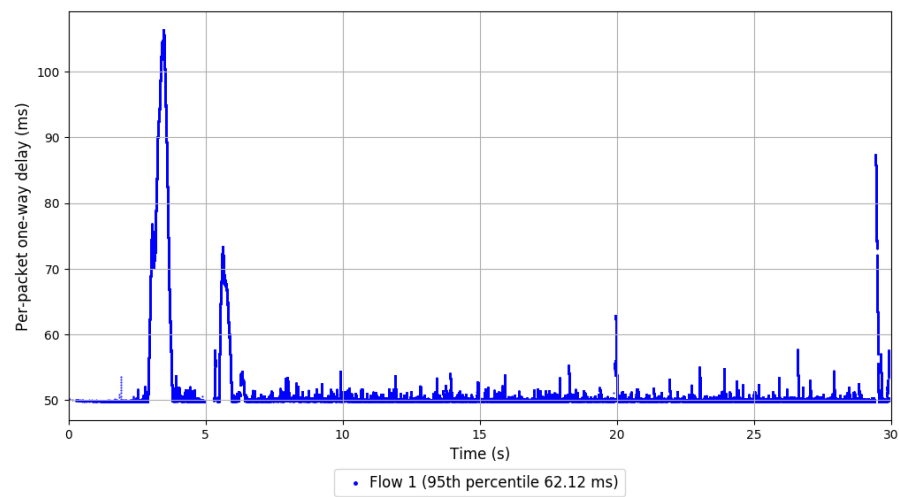
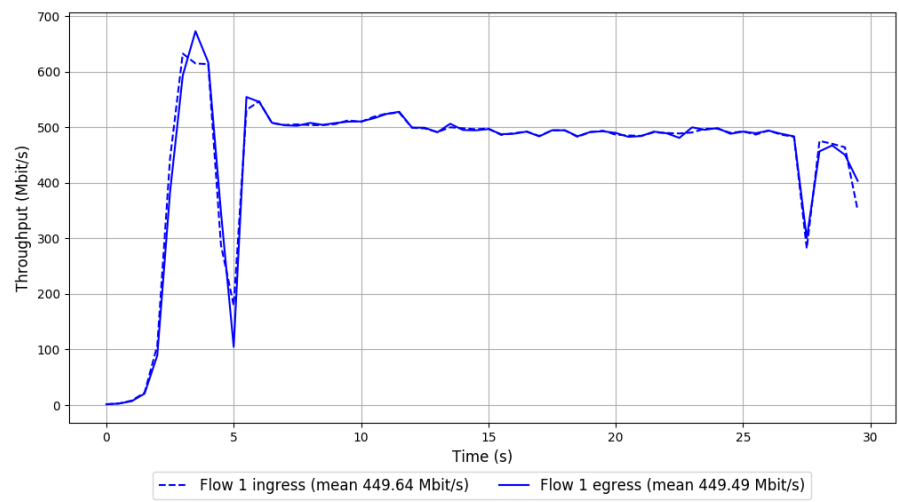
-- Flow 1:

Average throughput: 449.49 Mbit/s

95th percentile per-packet one-way delay: 62.118 ms

Loss rate: 0.04%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-20 05:29:24

End at: 2018-02-20 05:29:54

Below is generated by plot.py at 2018-02-20 09:02:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.89 Mbit/s

95th percentile per-packet one-way delay: 54.146 ms

Loss rate: 0.00%

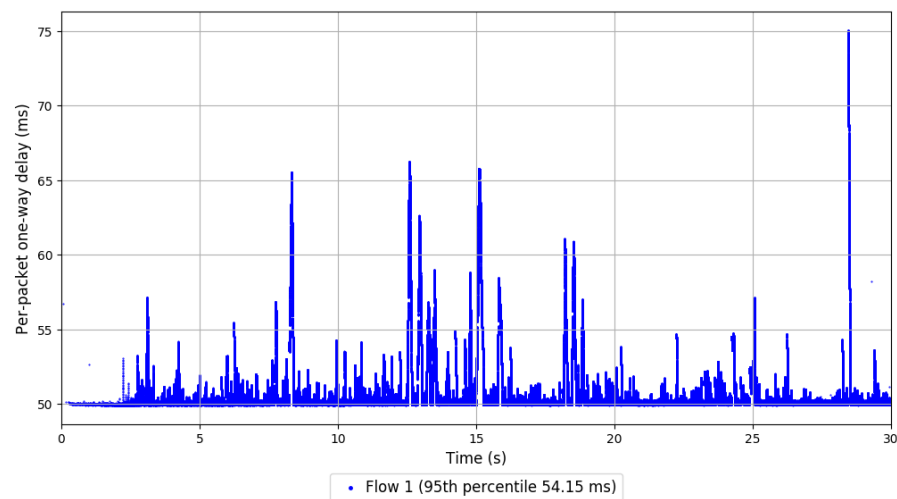
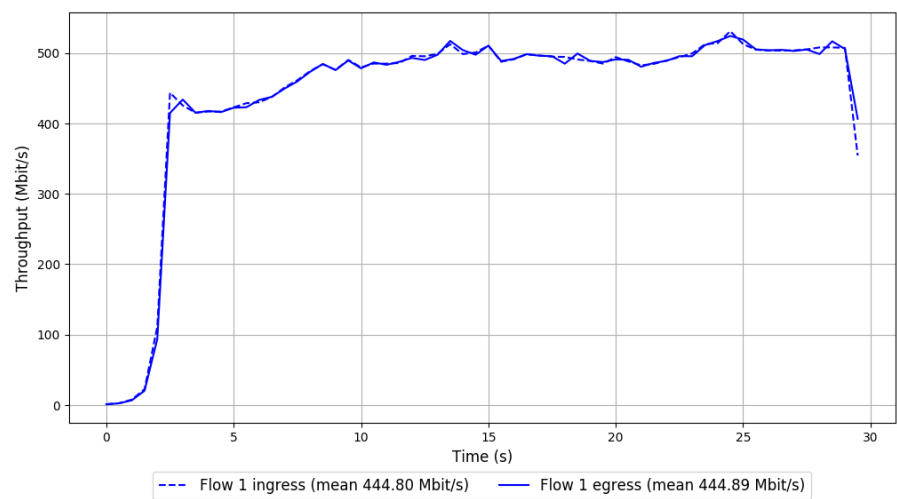
-- Flow 1:

Average throughput: 444.89 Mbit/s

95th percentile per-packet one-way delay: 54.146 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

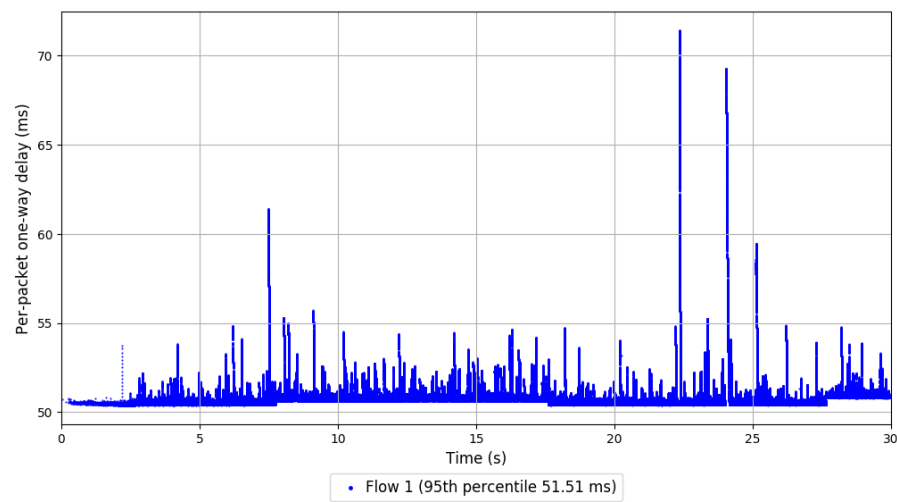
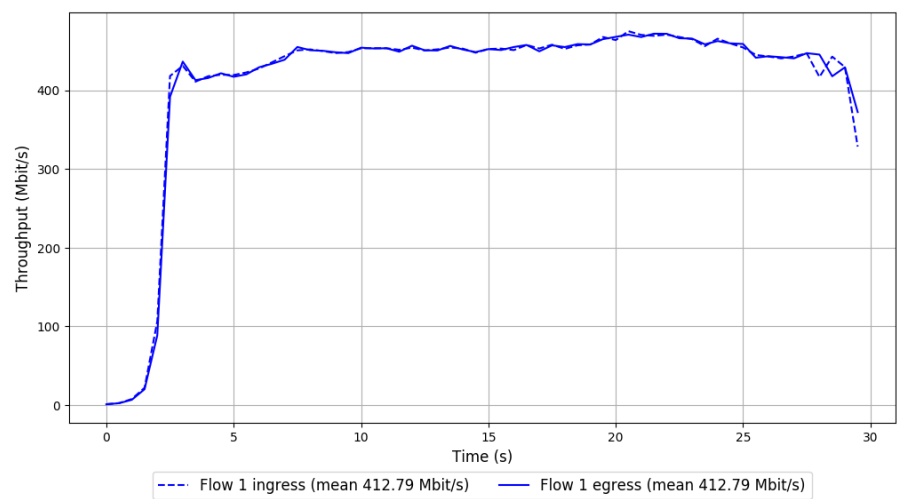


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-20 03:18:00
End at: 2018-02-20 03:18:30

# Below is generated by plot.py at 2018-02-20 09:02:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.79 Mbit/s
95th percentile per-packet one-way delay: 51.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 412.79 Mbit/s
95th percentile per-packet one-way delay: 51.514 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-20 03:32:53

End at: 2018-02-20 03:33:23

Below is generated by plot.py at 2018-02-20 09:03:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.53 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.00%

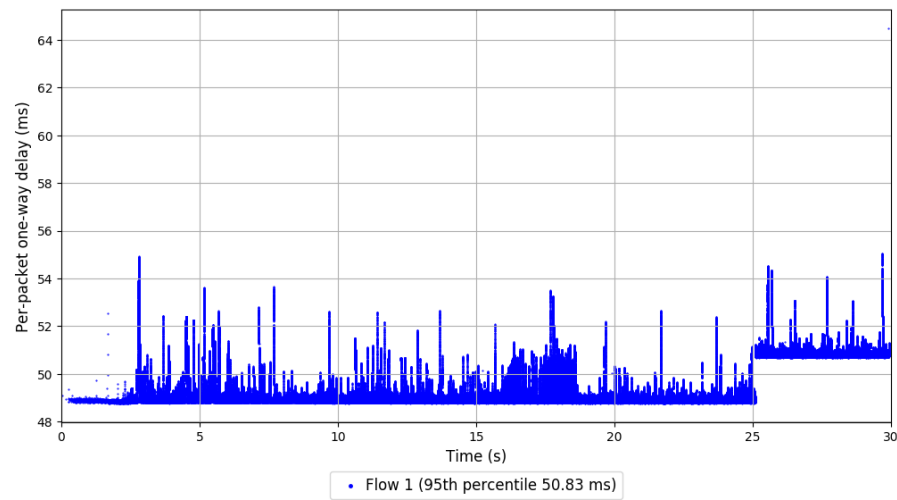
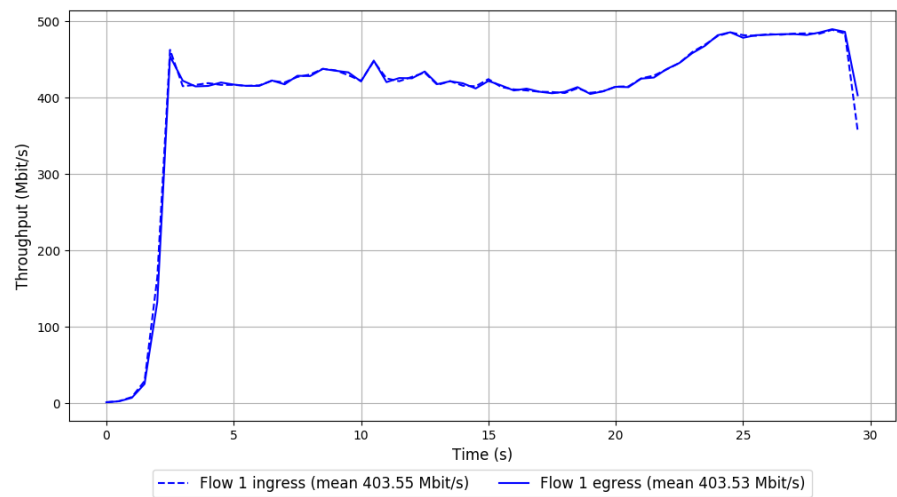
-- Flow 1:

Average throughput: 403.53 Mbit/s

95th percentile per-packet one-way delay: 50.834 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-20 03:47:34

End at: 2018-02-20 03:48:04

Below is generated by plot.py at 2018-02-20 09:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.27 Mbit/s

95th percentile per-packet one-way delay: 52.265 ms

Loss rate: 0.00%

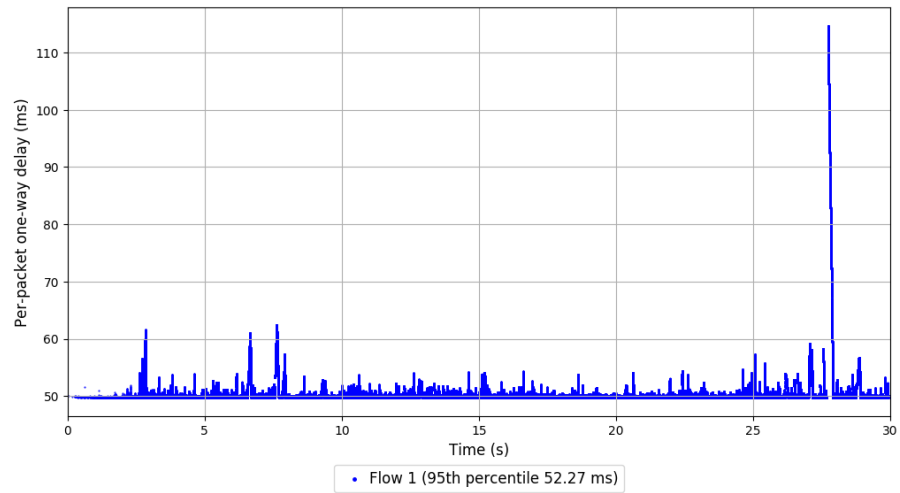
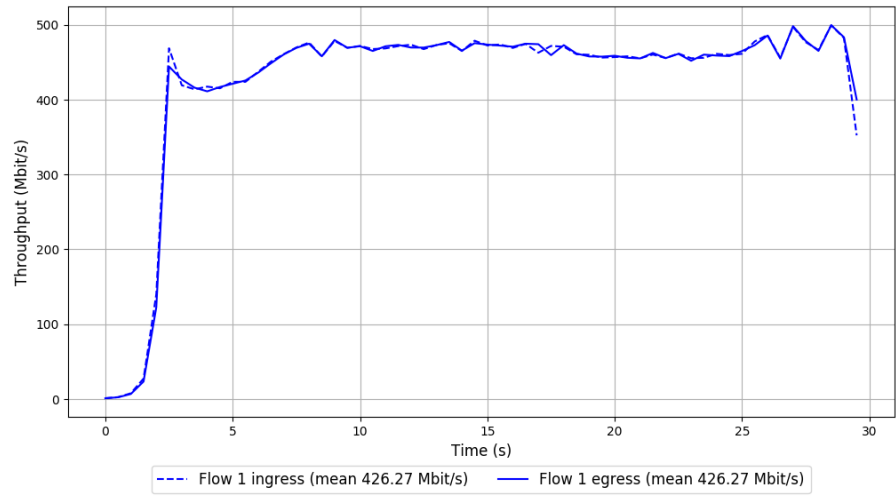
-- Flow 1:

Average throughput: 426.27 Mbit/s

95th percentile per-packet one-way delay: 52.265 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-20 04:02:25

End at: 2018-02-20 04:02:55

Below is generated by plot.py at 2018-02-20 09:06:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.01 Mbit/s

95th percentile per-packet one-way delay: 68.486 ms

Loss rate: 0.02%

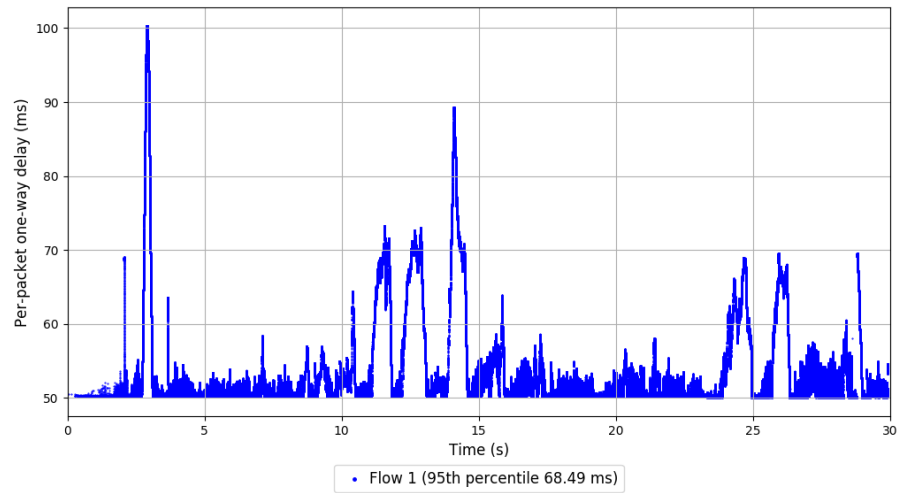
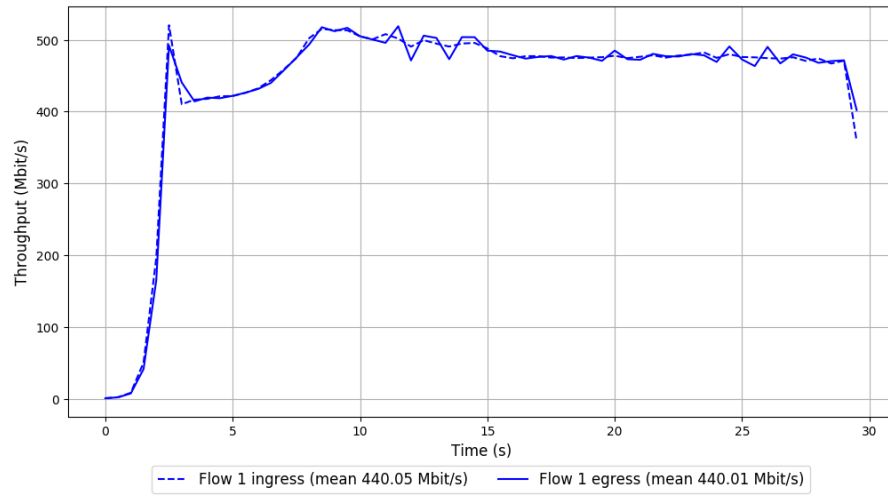
-- Flow 1:

Average throughput: 440.01 Mbit/s

95th percentile per-packet one-way delay: 68.486 ms

Loss rate: 0.02%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-20 04:17:26

End at: 2018-02-20 04:17:56

Below is generated by plot.py at 2018-02-20 09:07:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.04 Mbit/s

95th percentile per-packet one-way delay: 50.961 ms

Loss rate: 0.00%

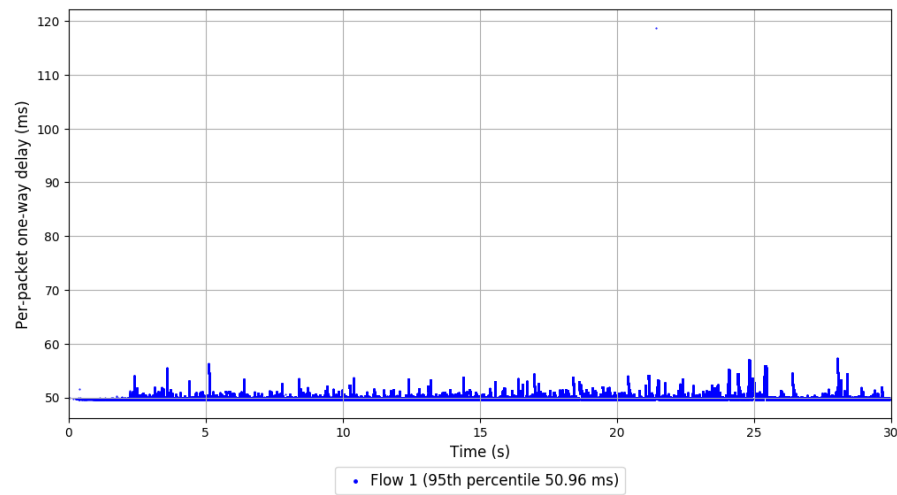
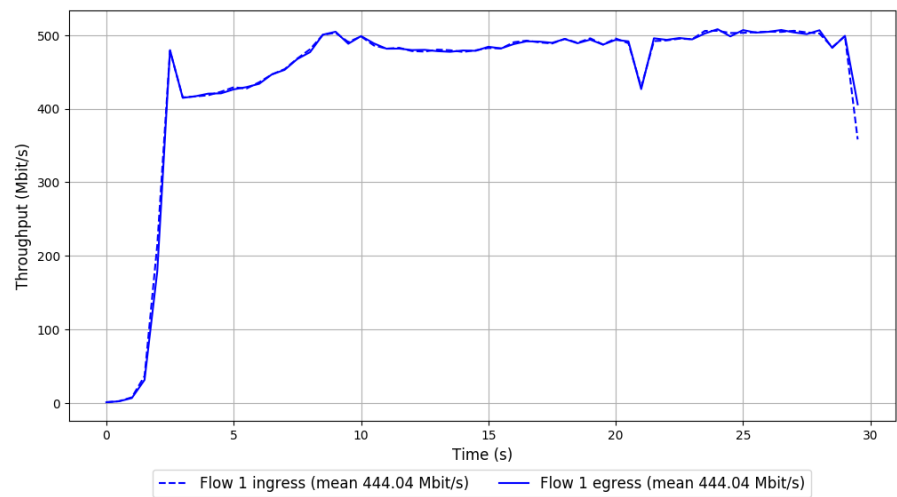
-- Flow 1:

Average throughput: 444.04 Mbit/s

95th percentile per-packet one-way delay: 50.961 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-20 04:32:18

End at: 2018-02-20 04:32:48

Below is generated by plot.py at 2018-02-20 09:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.25 Mbit/s

95th percentile per-packet one-way delay: 63.232 ms

Loss rate: 0.00%

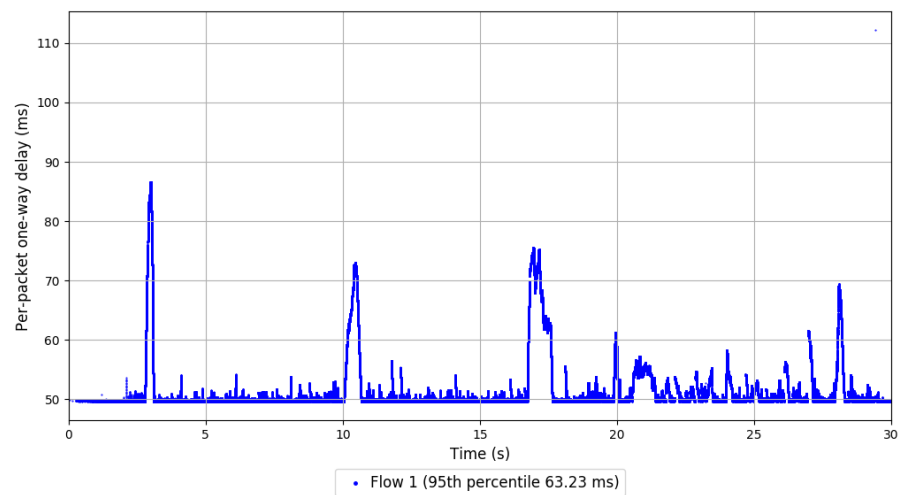
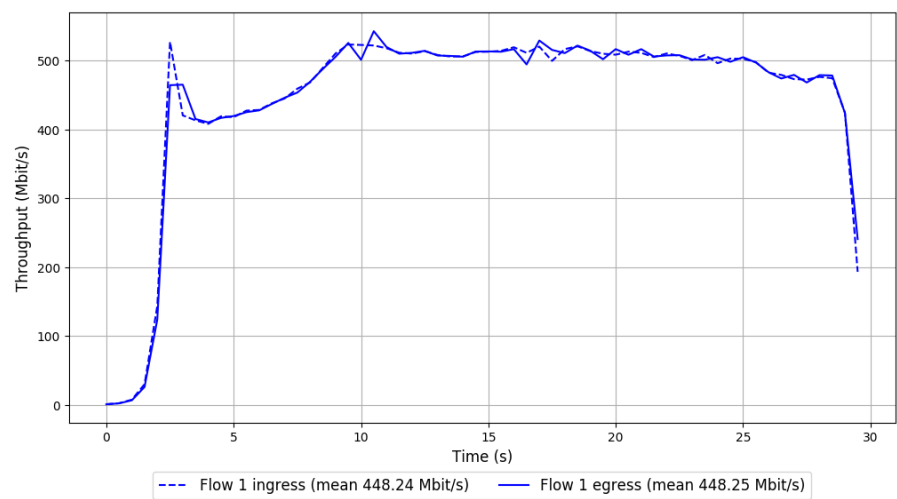
-- Flow 1:

Average throughput: 448.25 Mbit/s

95th percentile per-packet one-way delay: 63.232 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-20 04:47:06

End at: 2018-02-20 04:47:36

Below is generated by plot.py at 2018-02-20 09:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.96 Mbit/s

95th percentile per-packet one-way delay: 51.879 ms

Loss rate: 0.00%

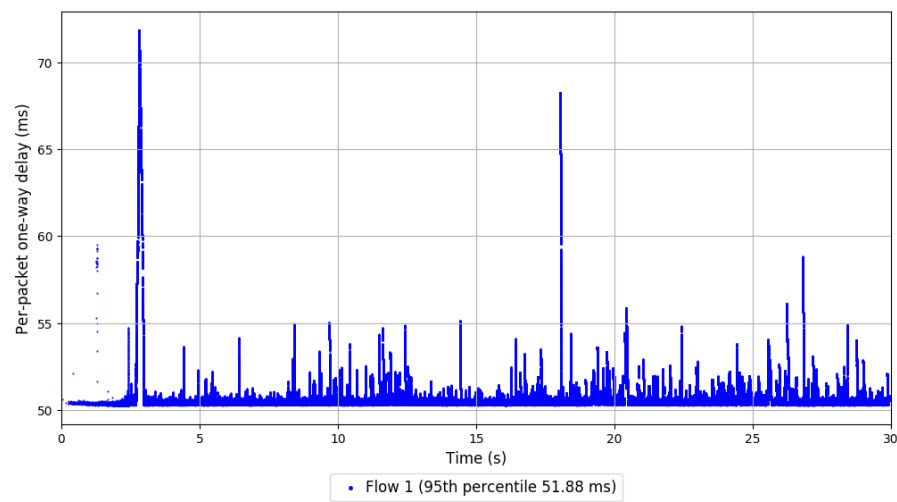
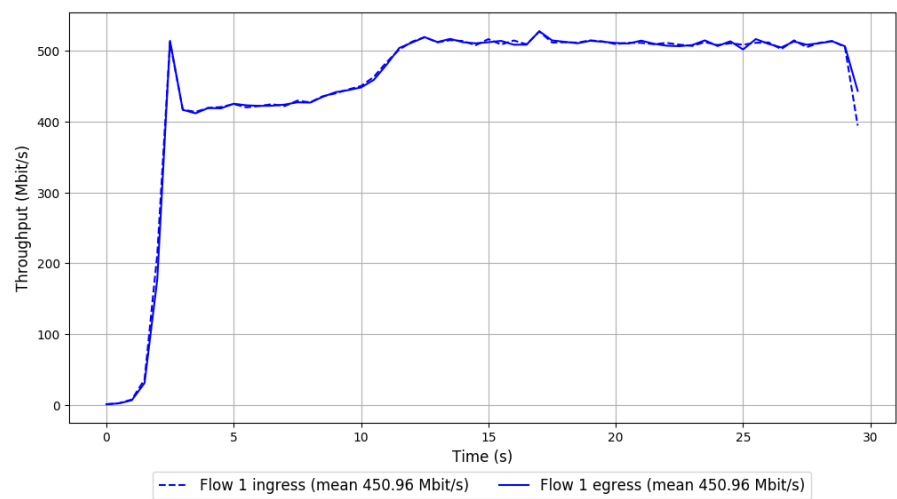
-- Flow 1:

Average throughput: 450.96 Mbit/s

95th percentile per-packet one-way delay: 51.879 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-20 05:02:07

End at: 2018-02-20 05:02:37

Below is generated by plot.py at 2018-02-20 09:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 431.19 Mbit/s

95th percentile per-packet one-way delay: 51.460 ms

Loss rate: 0.00%

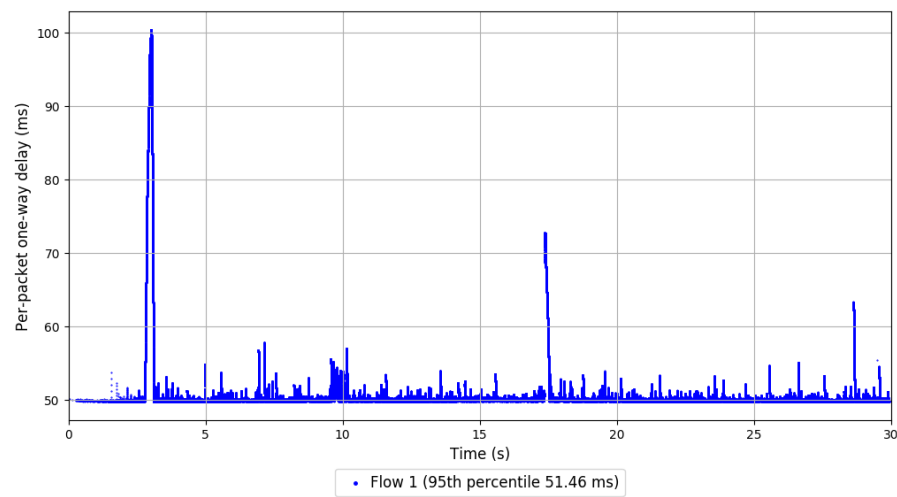
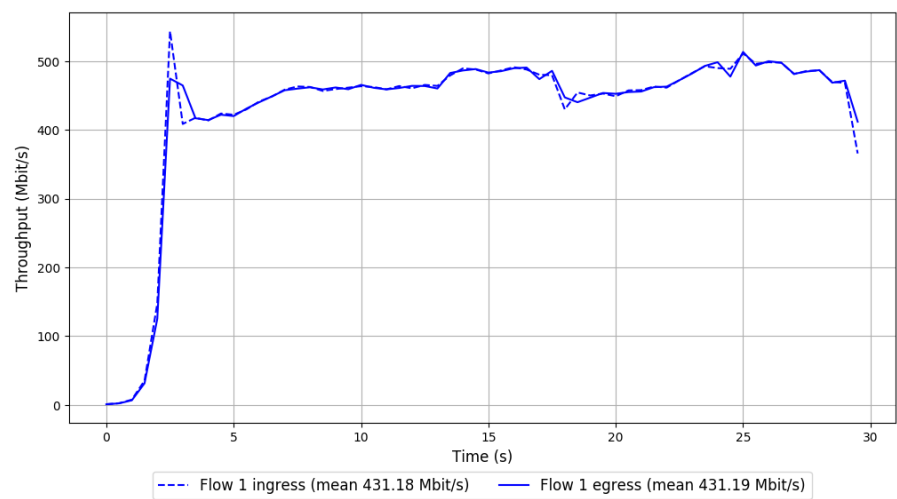
-- Flow 1:

Average throughput: 431.19 Mbit/s

95th percentile per-packet one-way delay: 51.460 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-20 05:17:06

End at: 2018-02-20 05:17:36

Below is generated by plot.py at 2018-02-20 09:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.85 Mbit/s

95th percentile per-packet one-way delay: 55.975 ms

Loss rate: 0.00%

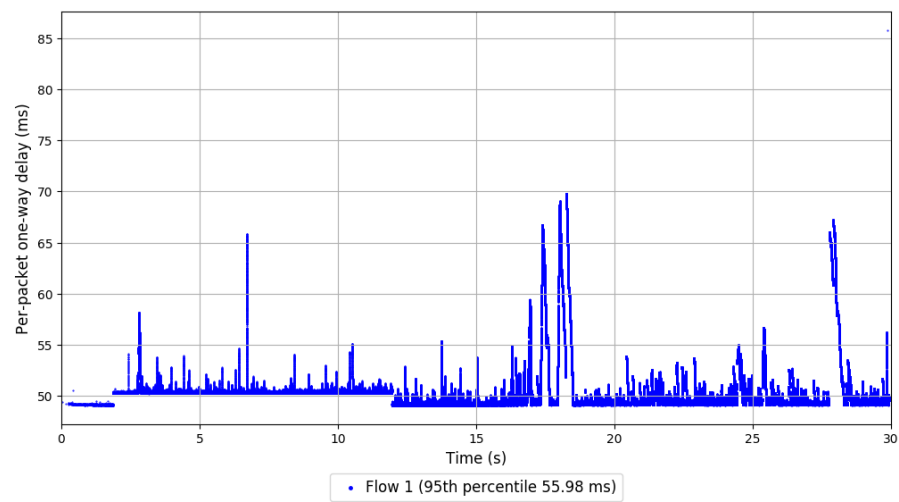
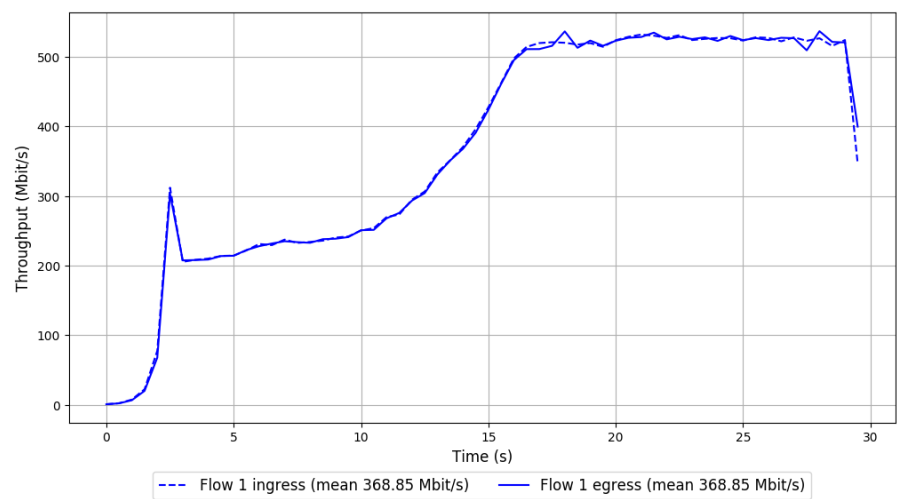
-- Flow 1:

Average throughput: 368.85 Mbit/s

95th percentile per-packet one-way delay: 55.975 ms

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-20 05:32:00
End at: 2018-02-20 05:32:30

# Below is generated by plot.py at 2018-02-20 09:08:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 448.28 Mbit/s
95th percentile per-packet one-way delay: 53.193 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 448.28 Mbit/s
95th percentile per-packet one-way delay: 53.193 ms
Loss rate: 0.01%
```

Run 10: Report of Vivace-LTE — Data Link

