

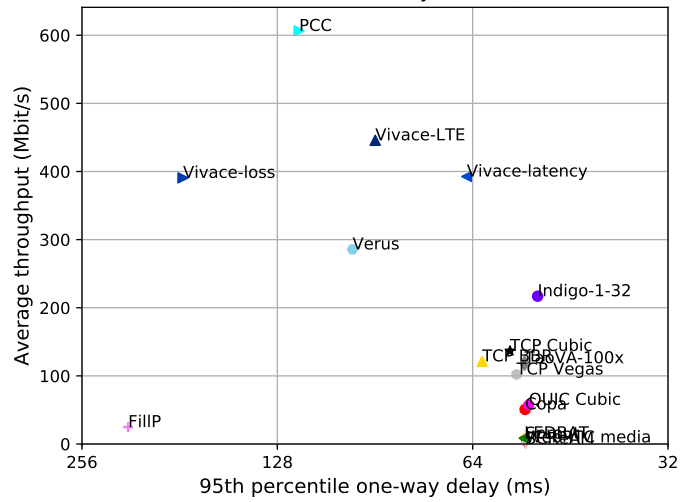
Pantheon Report

Generated at 2018-01-31 00:36:29 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

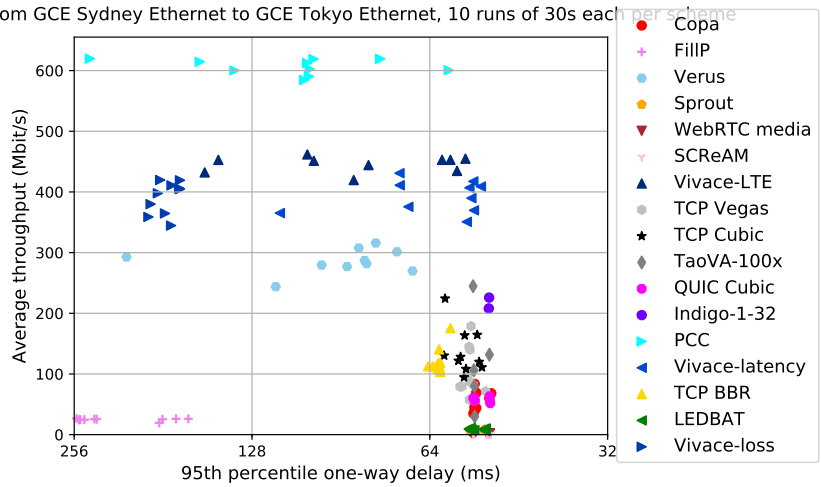
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	121.29	61.88	0.04
TCP Cubic	10	136.65	56.06	0.00
LEDBAT	10	8.46	53.31	0.12
PCC	10	606.30	118.48	0.80
QUIC Cubic	7	57.48	52.45	0.00
SCReAM	10	0.21	53.05	0.00
WebRTC media	10	2.29	53.10	0.00
Sprout	10	7.92	53.11	0.02
TaoVA-100x	5	118.59	53.24	0.00
TCP Vegas	10	102.04	54.78	0.04
Verus	10	285.63	98.04	0.59
Copa	10	50.76	53.13	0.00
FillP	10	24.85	217.32	11.04
Indigo-1-32	2	216.94	50.83	0.00
Vivace-latency	10	392.59	65.35	0.02
Vivace-loss	10	390.62	178.88	4.33
Vivace-LTE	10	445.76	90.44	0.09

Run 1: Statistics of TCP BBR

Start at: 2018-01-30 20:12:44

End at: 2018-01-30 20:13:14

Below is generated by plot.py at 2018-01-30 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.44 Mbit/s

95th percentile per-packet one-way delay: 59.059 ms

Loss rate: 0.00%

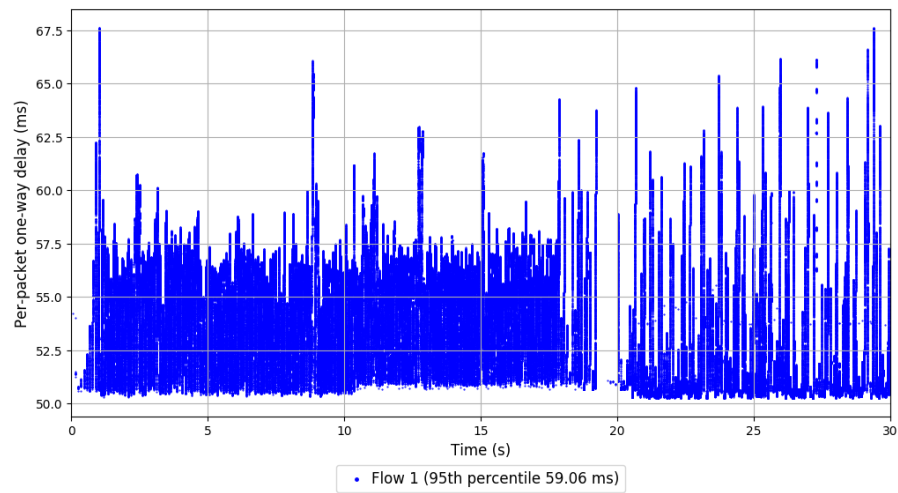
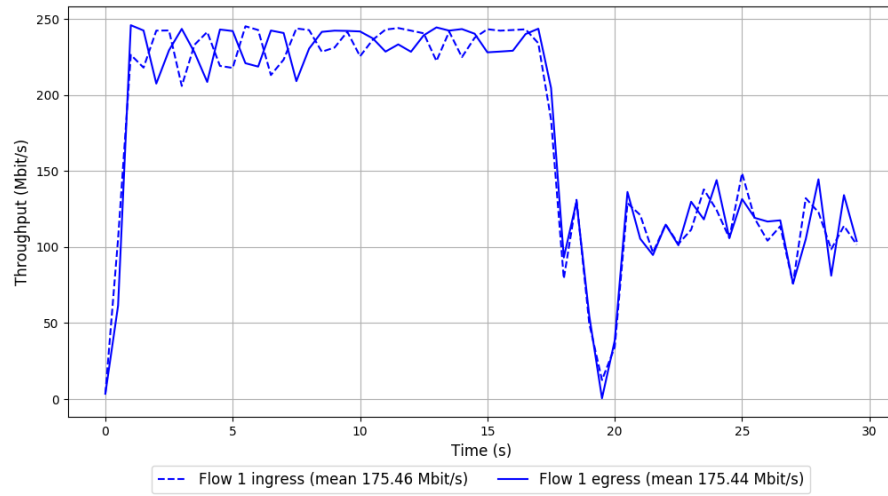
-- Flow 1:

Average throughput: 175.44 Mbit/s

95th percentile per-packet one-way delay: 59.059 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-30 20:26:19

End at: 2018-01-30 20:26:49

Below is generated by plot.py at 2018-01-30 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.02 Mbit/s

95th percentile per-packet one-way delay: 61.775 ms

Loss rate: 0.00%

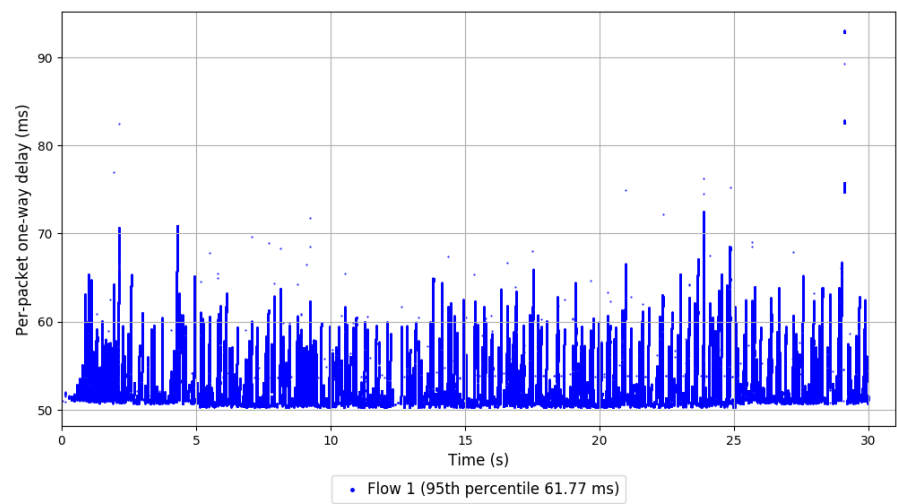
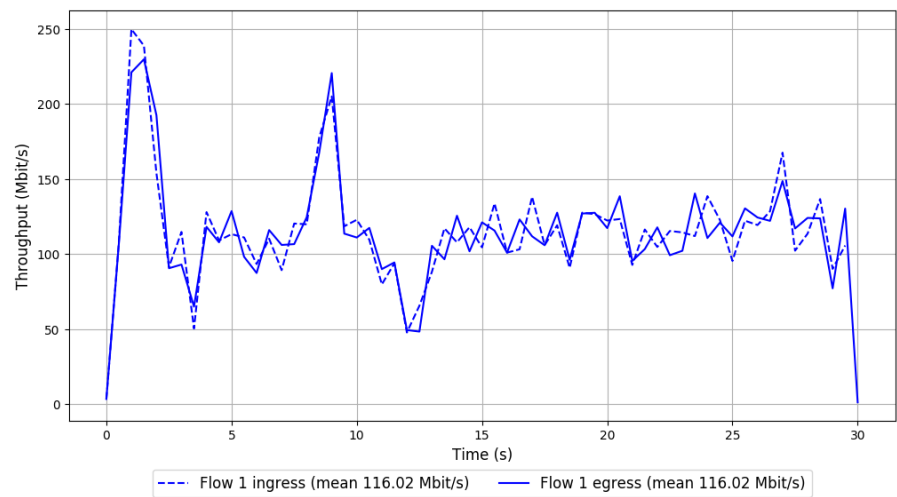
-- Flow 1:

Average throughput: 116.02 Mbit/s

95th percentile per-packet one-way delay: 61.775 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-30 20:39:55

End at: 2018-01-30 20:40:25

Below is generated by plot.py at 2018-01-30 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.52 Mbit/s

95th percentile per-packet one-way delay: 63.293 ms

Loss rate: 0.00%

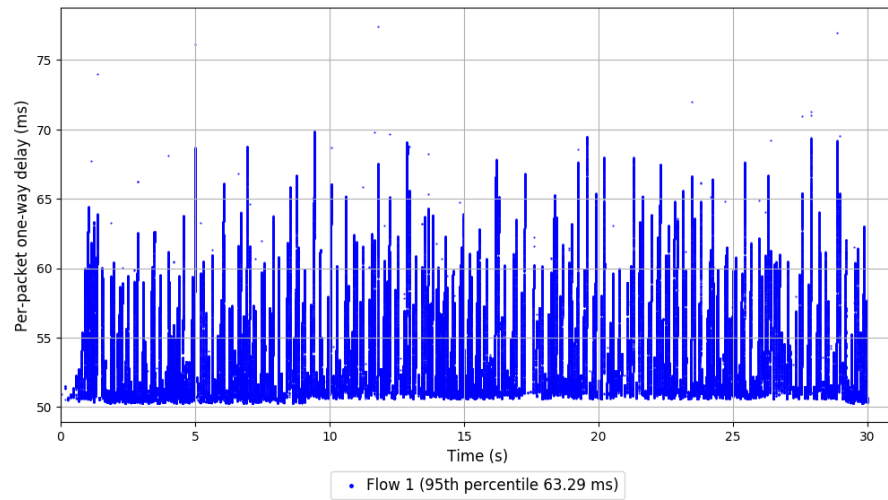
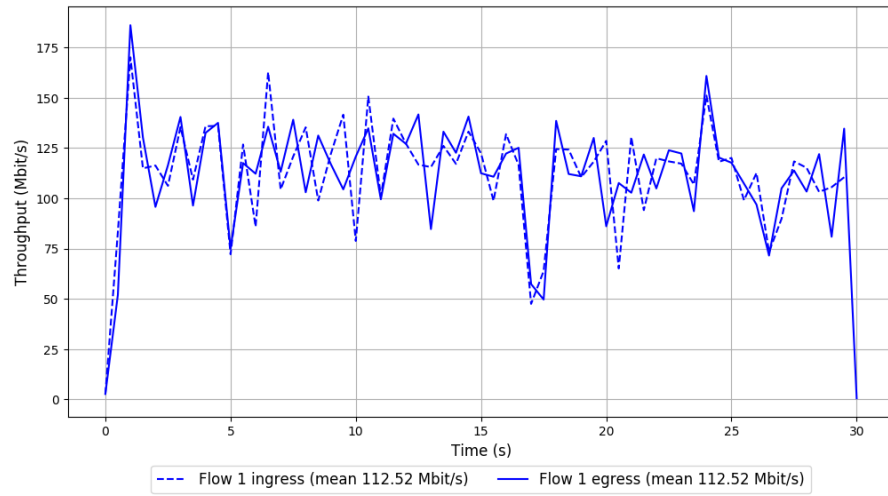
-- Flow 1:

Average throughput: 112.52 Mbit/s

95th percentile per-packet one-way delay: 63.293 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-30 20:53:42

End at: 2018-01-30 20:54:12

Below is generated by plot.py at 2018-01-30 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.82 Mbit/s

95th percentile per-packet one-way delay: 61.458 ms

Loss rate: 0.00%

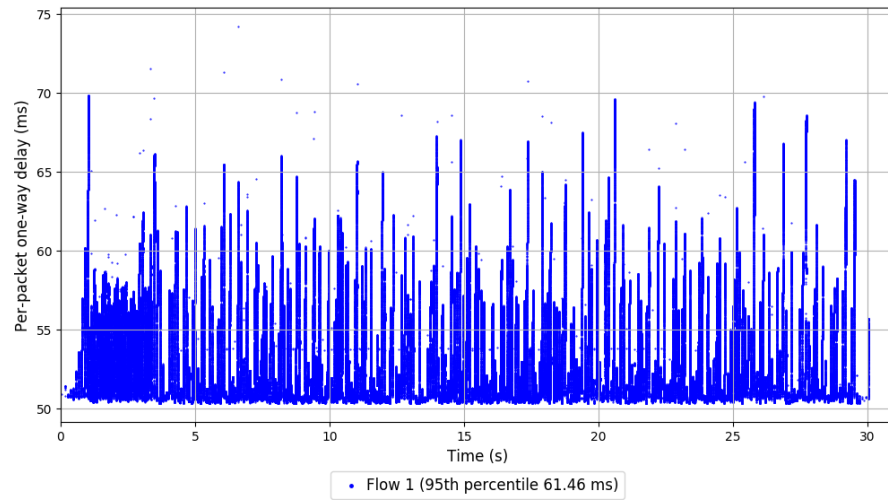
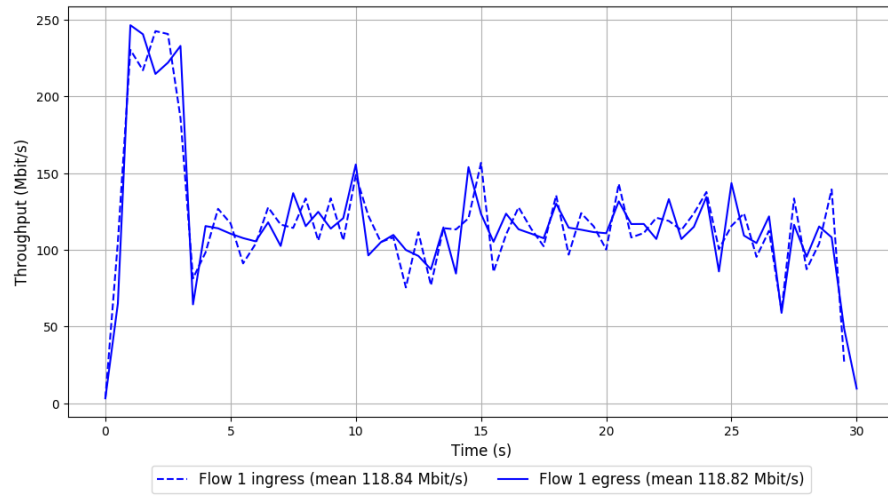
-- Flow 1:

Average throughput: 118.82 Mbit/s

95th percentile per-packet one-way delay: 61.458 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-30 21:07:30

End at: 2018-01-30 21:08:00

Below is generated by plot.py at 2018-01-30 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.07 Mbit/s

95th percentile per-packet one-way delay: 62.052 ms

Loss rate: 0.01%

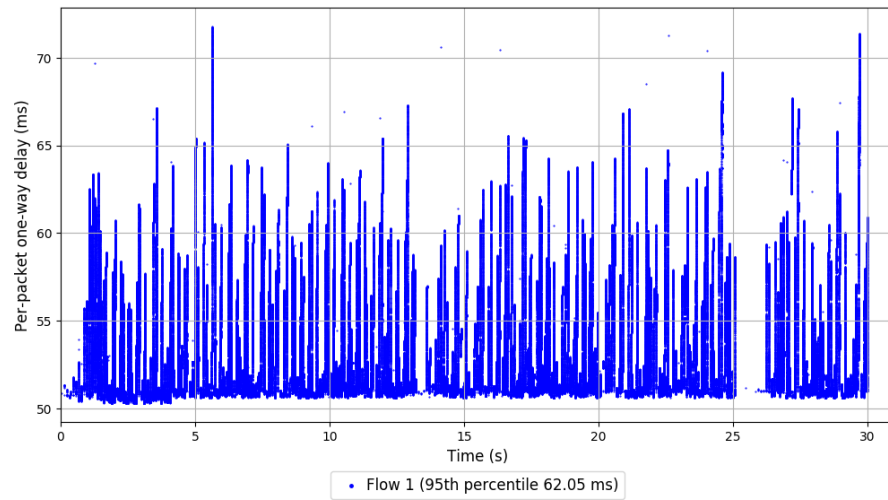
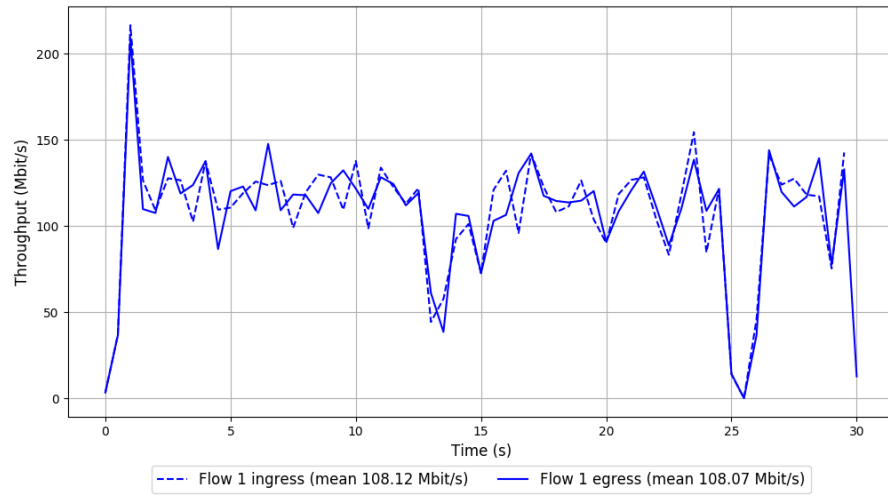
-- Flow 1:

Average throughput: 108.07 Mbit/s

95th percentile per-packet one-way delay: 62.052 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

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

End at: 2018-01-30 21:21:46

Below is generated by plot.py at 2018-01-30 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.59 Mbit/s

95th percentile per-packet one-way delay: 64.434 ms

Loss rate: 0.00%

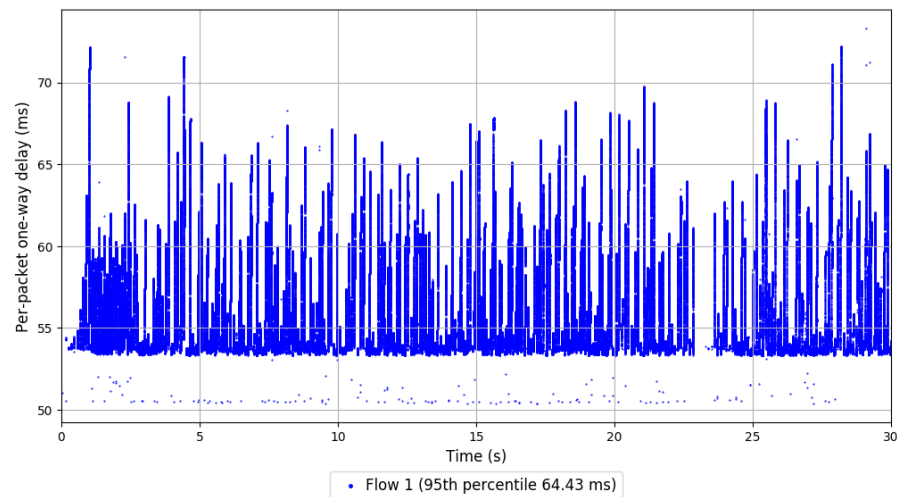
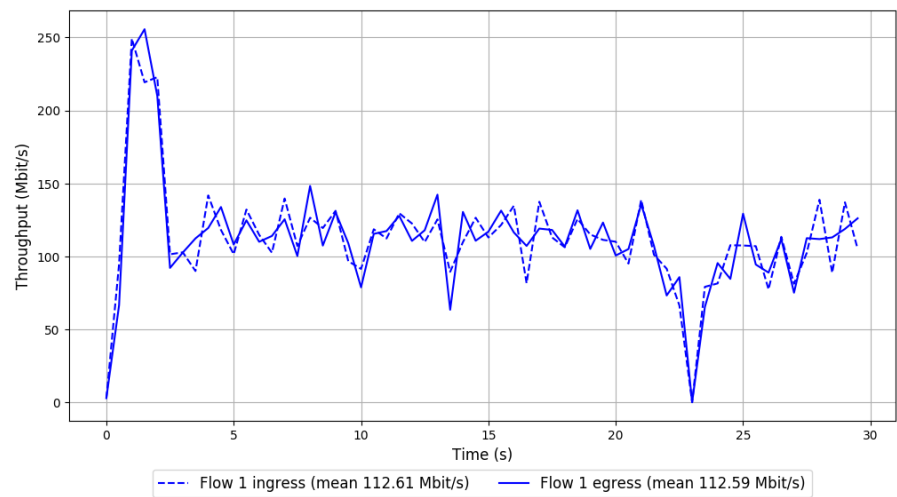
-- Flow 1:

Average throughput: 112.59 Mbit/s

95th percentile per-packet one-way delay: 64.434 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-30 21:35:24

End at: 2018-01-30 21:35:54

Below is generated by plot.py at 2018-01-30 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.49 Mbit/s

95th percentile per-packet one-way delay: 61.717 ms

Loss rate: 0.00%

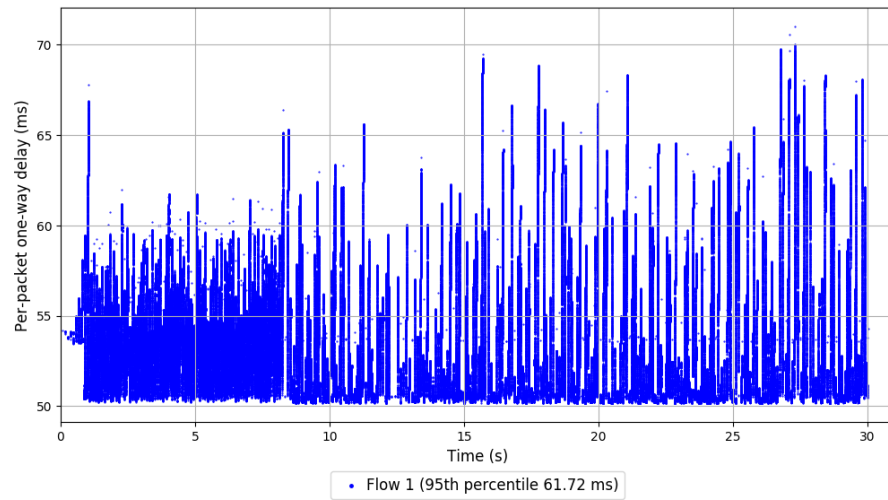
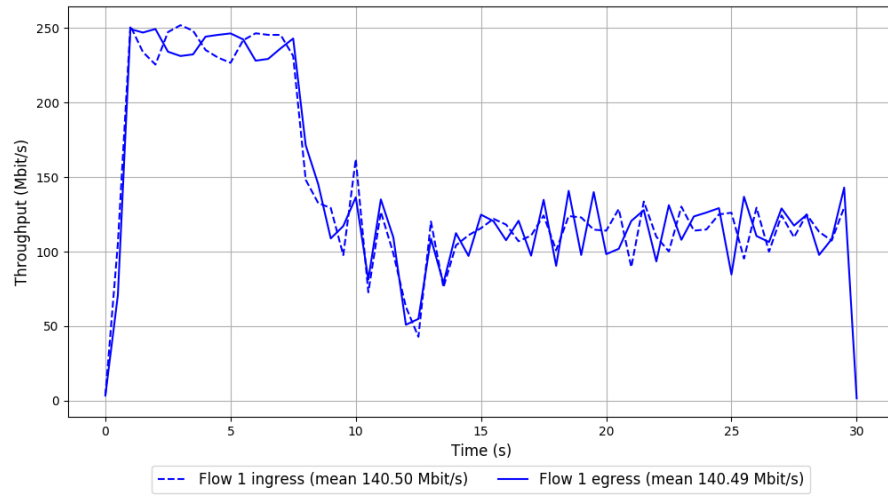
-- Flow 1:

Average throughput: 140.49 Mbit/s

95th percentile per-packet one-way delay: 61.717 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-30 21:49:12

End at: 2018-01-30 21:49:42

Below is generated by plot.py at 2018-01-30 23:38:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.45 Mbit/s

95th percentile per-packet one-way delay: 61.473 ms

Loss rate: 0.20%

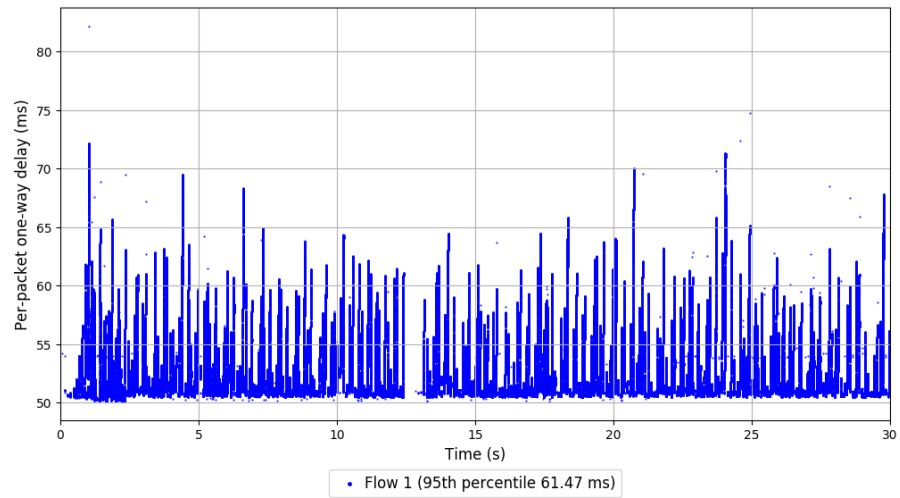
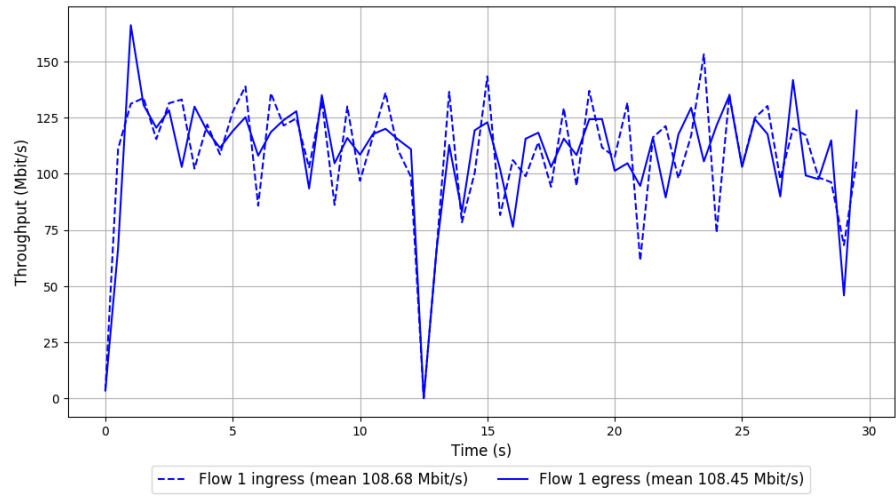
-- Flow 1:

Average throughput: 108.45 Mbit/s

95th percentile per-packet one-way delay: 61.473 ms

Loss rate: 0.20%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-30 22:02:57

End at: 2018-01-30 22:03:27

Below is generated by plot.py at 2018-01-30 23:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 61.457 ms

Loss rate: 0.22%

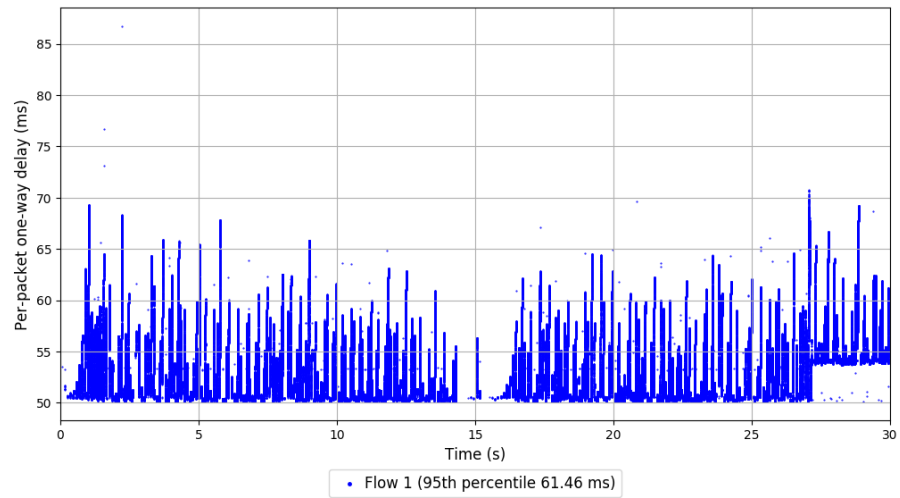
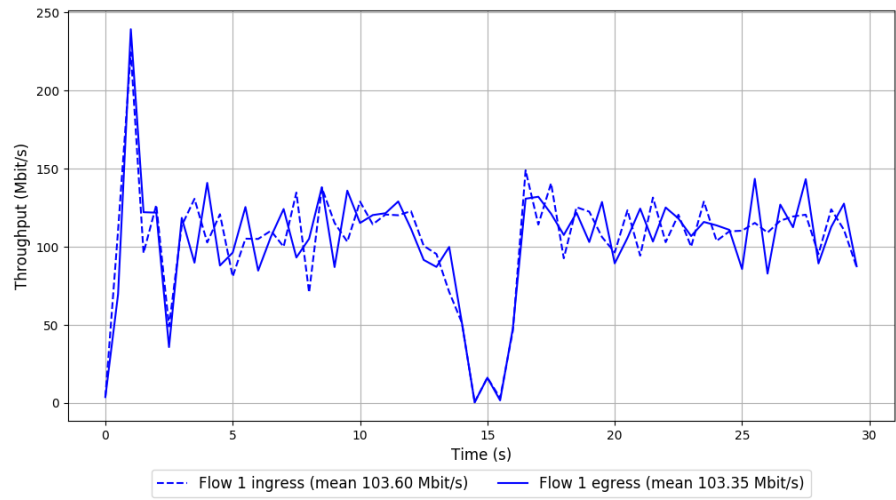
-- Flow 1:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 61.457 ms

Loss rate: 0.22%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-30 22:16:56

End at: 2018-01-30 22:17:26

Below is generated by plot.py at 2018-01-30 23:38:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.11 Mbit/s

95th percentile per-packet one-way delay: 62.091 ms

Loss rate: 0.01%

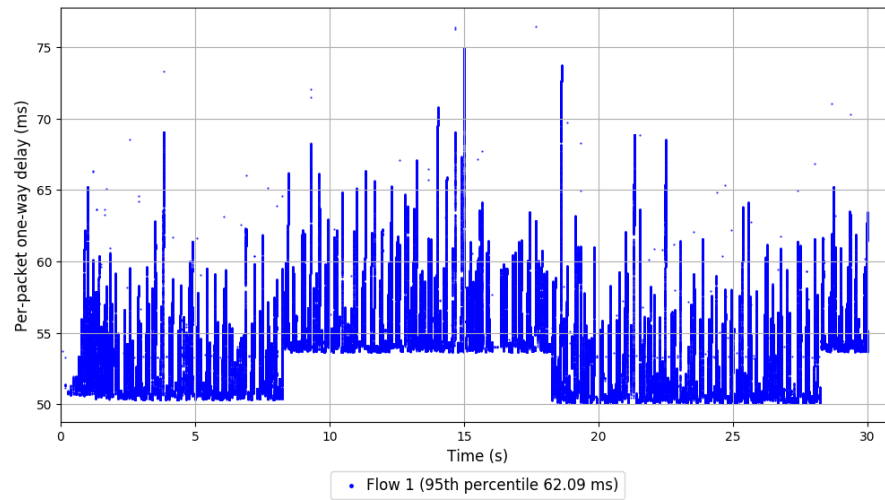
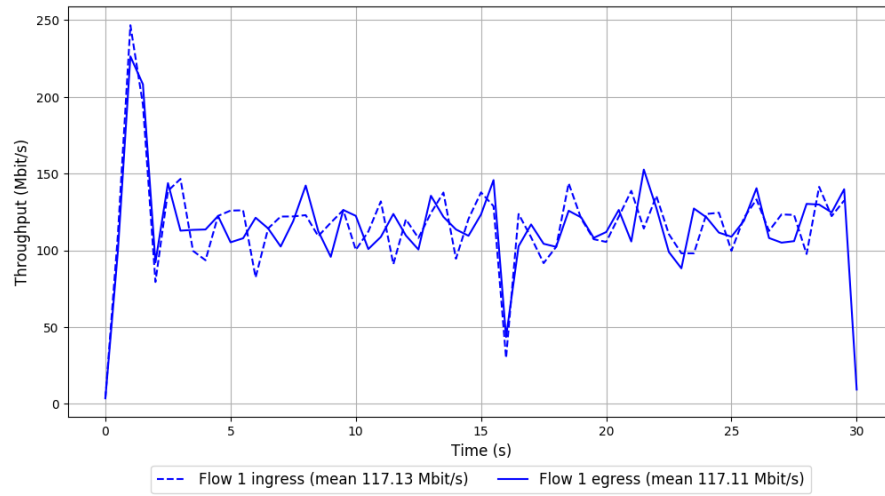
-- Flow 1:

Average throughput: 117.11 Mbit/s

95th percentile per-packet one-way delay: 62.091 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-30 20:07:37

End at: 2018-01-30 20:08:07

Below is generated by plot.py at 2018-01-30 23:40:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.30 Mbit/s

95th percentile per-packet one-way delay: 60.305 ms

Loss rate: 0.00%

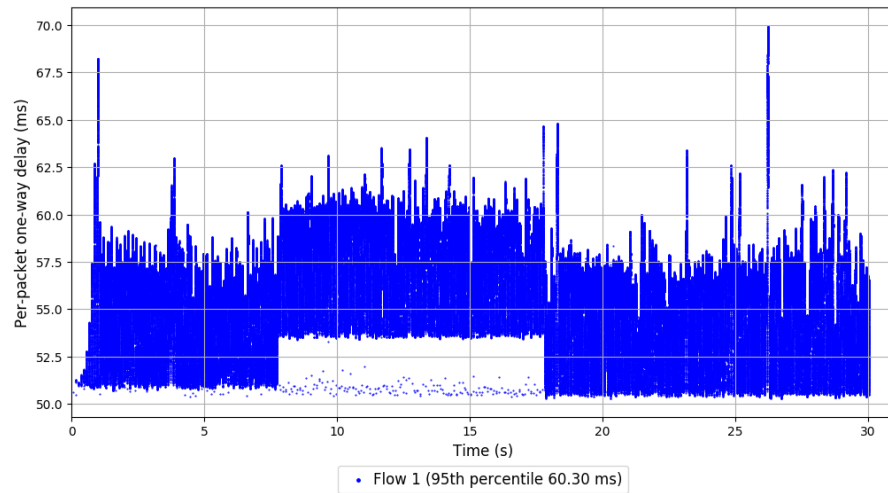
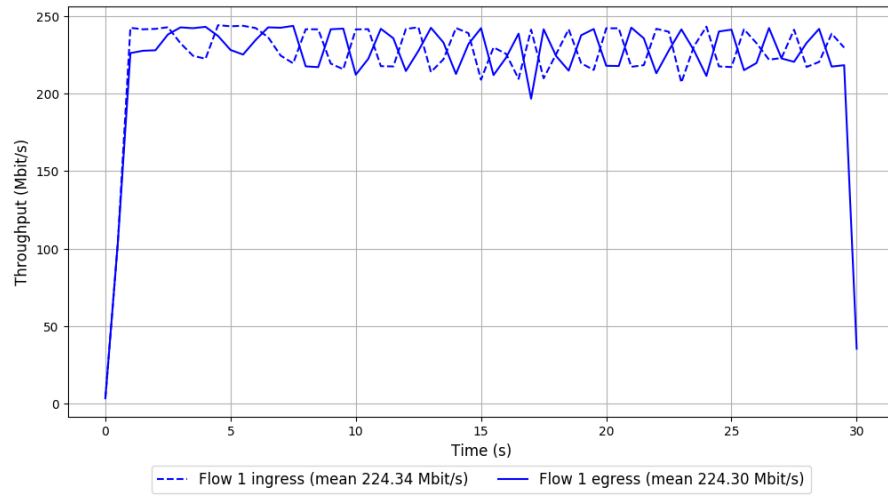
-- Flow 1:

Average throughput: 224.30 Mbit/s

95th percentile per-packet one-way delay: 60.305 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-30 20:21:21

End at: 2018-01-30 20:21:51

Below is generated by plot.py at 2018-01-30 23:40:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.91 Mbit/s

95th percentile per-packet one-way delay: 52.236 ms

Loss rate: 0.00%

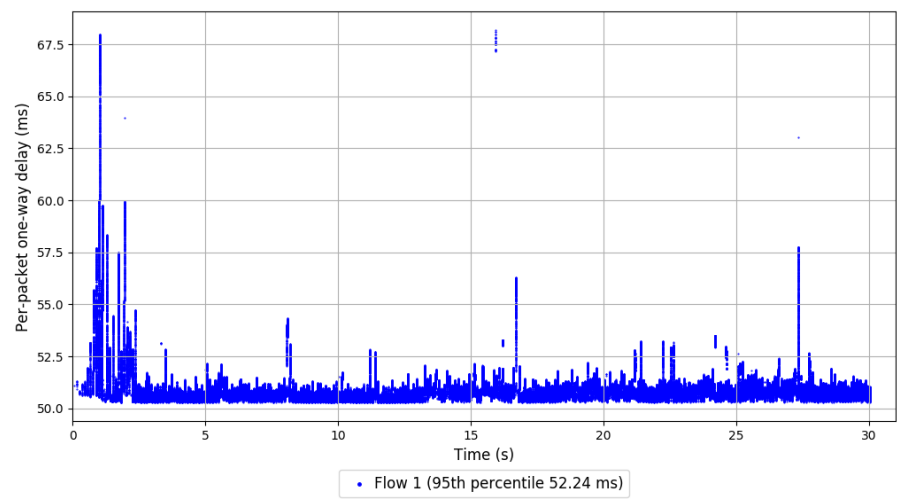
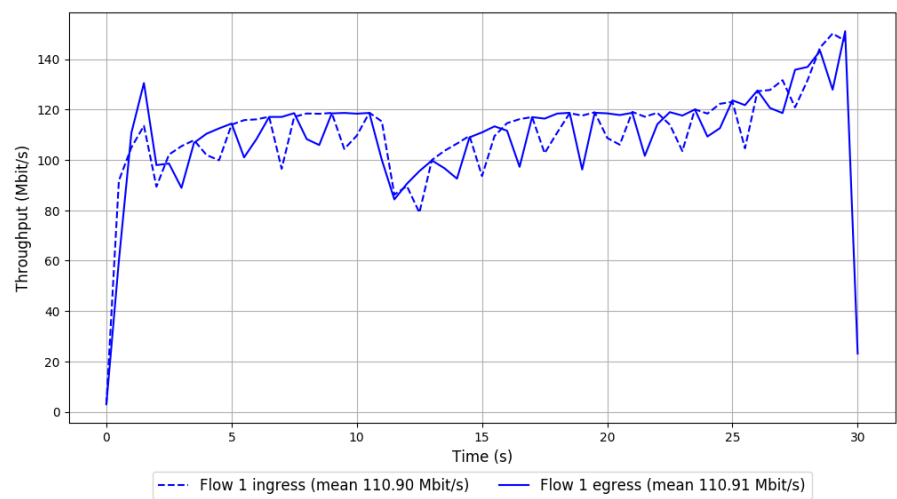
-- Flow 1:

Average throughput: 110.91 Mbit/s

95th percentile per-packet one-way delay: 52.236 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-30 20:34:51

End at: 2018-01-30 20:35:21

Below is generated by plot.py at 2018-01-30 23:40:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.32 Mbit/s

95th percentile per-packet one-way delay: 55.589 ms

Loss rate: 0.00%

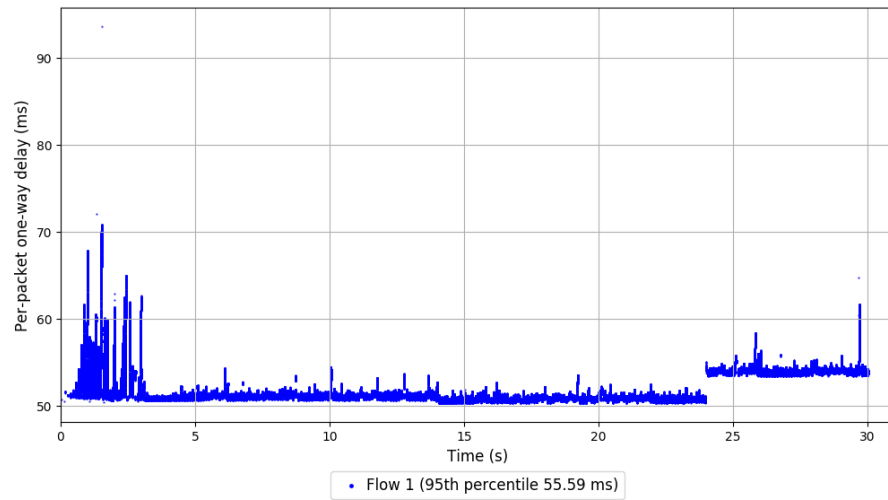
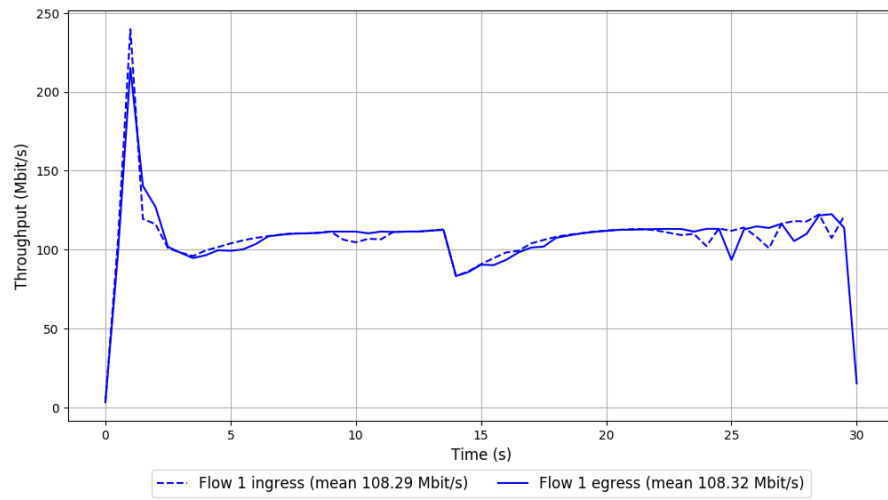
-- Flow 1:

Average throughput: 108.32 Mbit/s

95th percentile per-packet one-way delay: 55.589 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-30 20:48:36

End at: 2018-01-30 20:49:06

Below is generated by plot.py at 2018-01-30 23:40:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.29 Mbit/s

95th percentile per-packet one-way delay: 60.526 ms

Loss rate: 0.00%

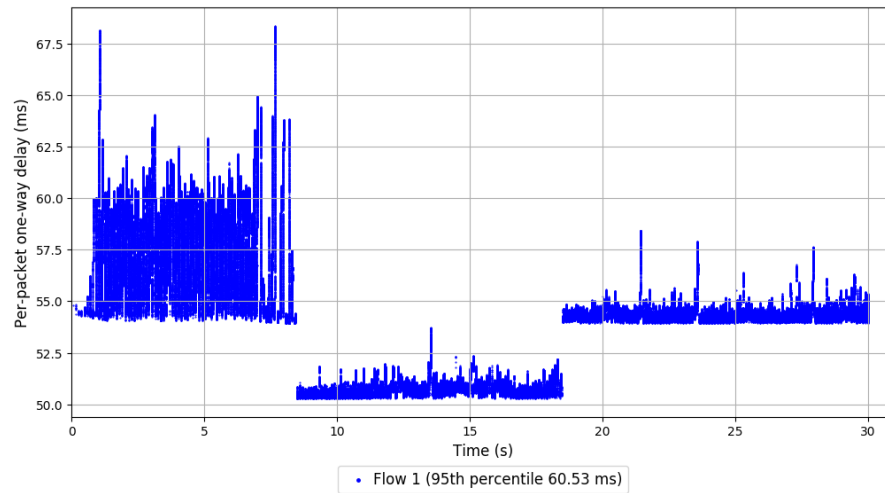
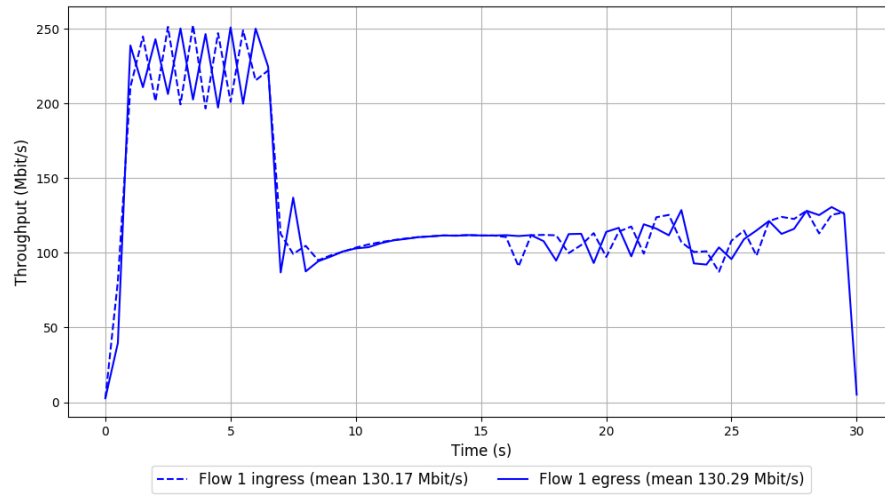
-- Flow 1:

Average throughput: 130.29 Mbit/s

95th percentile per-packet one-way delay: 60.526 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-30 21:02:28

End at: 2018-01-30 21:02:58

Below is generated by plot.py at 2018-01-30 23:40:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 56.007 ms

Loss rate: 0.01%

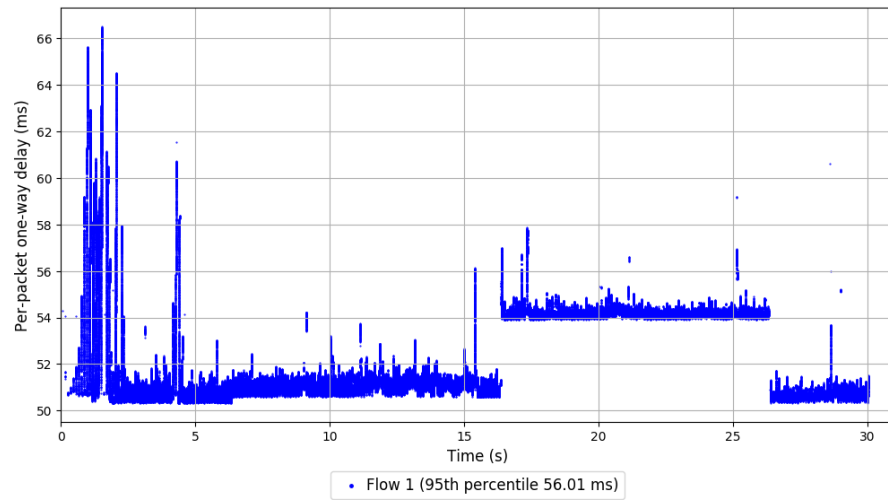
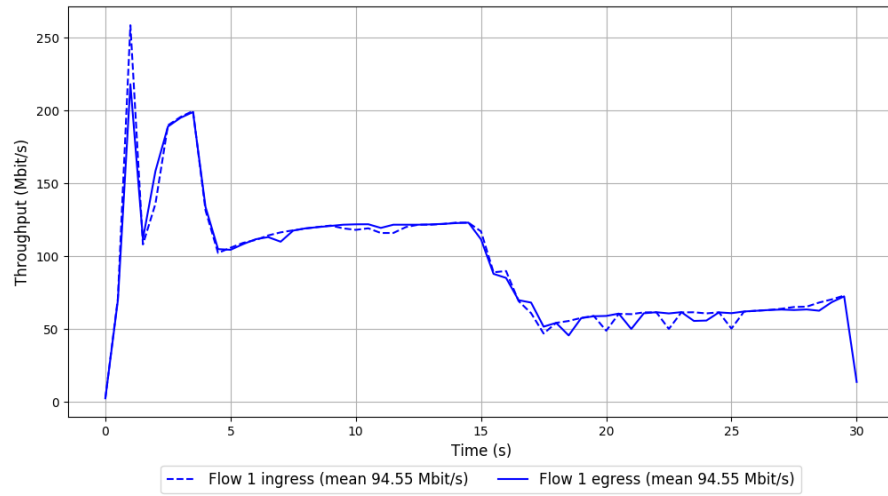
-- Flow 1:

Average throughput: 94.55 Mbit/s

95th percentile per-packet one-way delay: 56.007 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-30 21:16:12

End at: 2018-01-30 21:16:42

Below is generated by plot.py at 2018-01-30 23:40:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.98 Mbit/s

95th percentile per-packet one-way delay: 52.808 ms

Loss rate: 0.00%

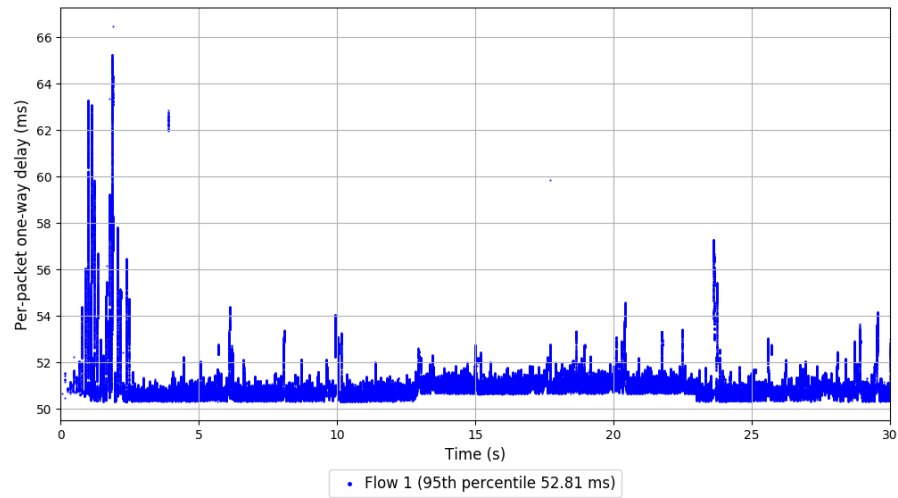
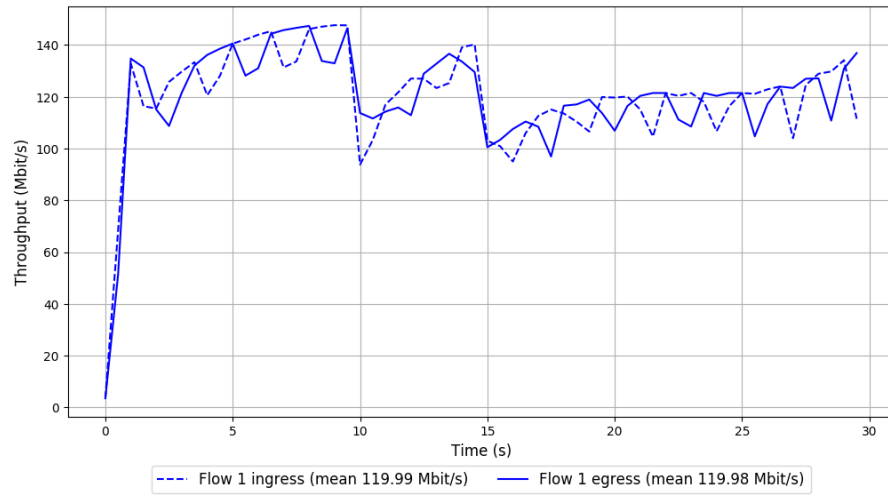
-- Flow 1:

Average throughput: 119.98 Mbit/s

95th percentile per-packet one-way delay: 52.808 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-30 21:30:20

End at: 2018-01-30 21:30:50

Below is generated by plot.py at 2018-01-30 23:40:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.83 Mbit/s

95th percentile per-packet one-way delay: 57.251 ms

Loss rate: 0.00%

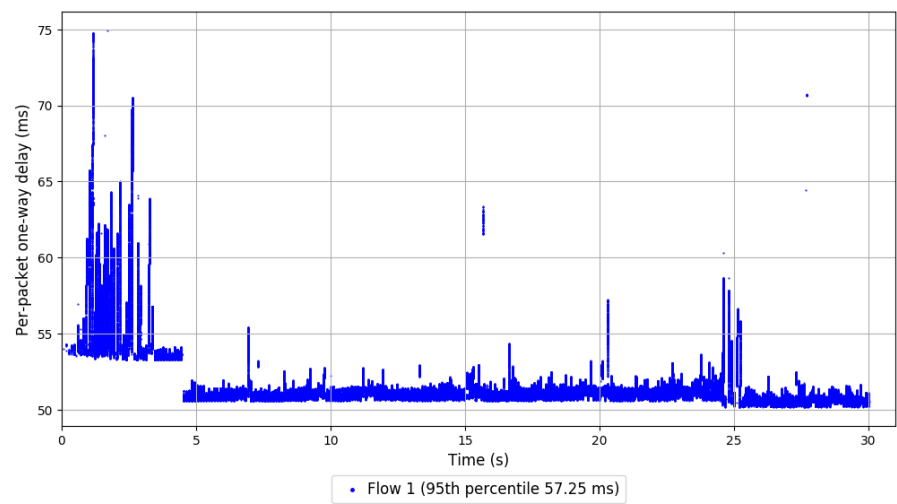
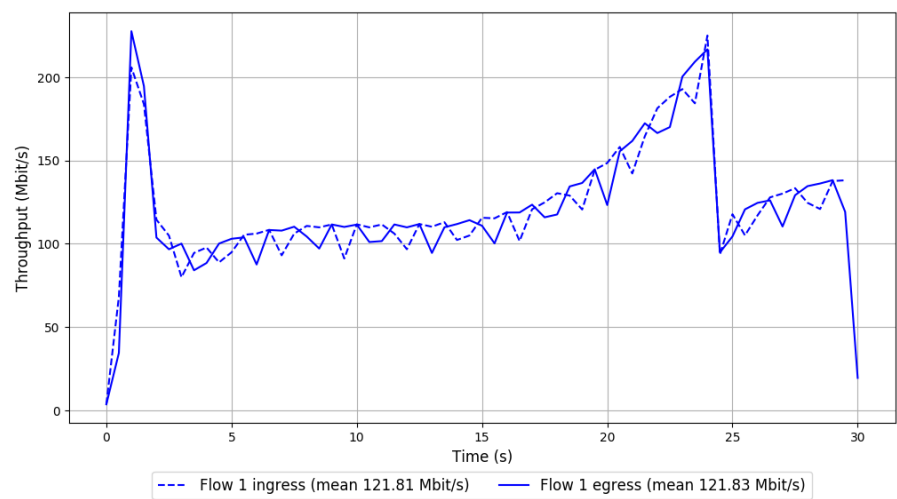
-- Flow 1:

Average throughput: 121.83 Mbit/s

95th percentile per-packet one-way delay: 57.251 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-30 21:44:06

End at: 2018-01-30 21:44:36

Below is generated by plot.py at 2018-01-30 23:40:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.22 Mbit/s

95th percentile per-packet one-way delay: 56.774 ms

Loss rate: 0.00%

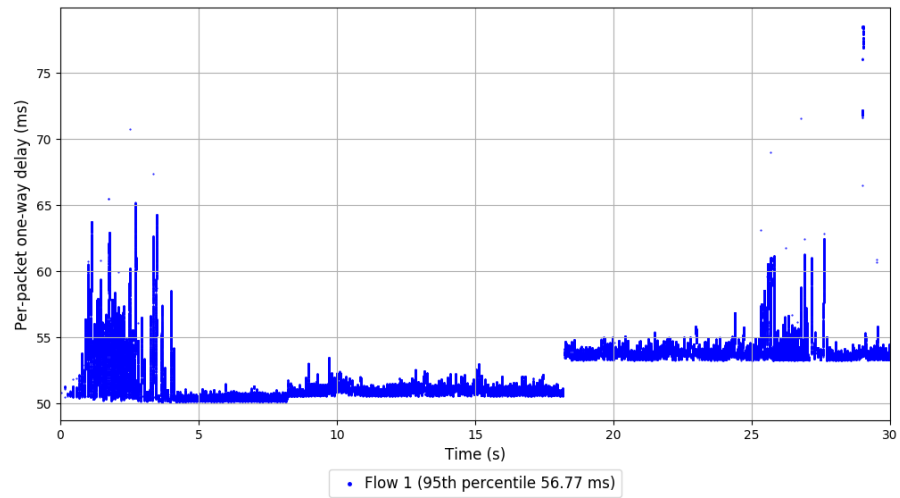
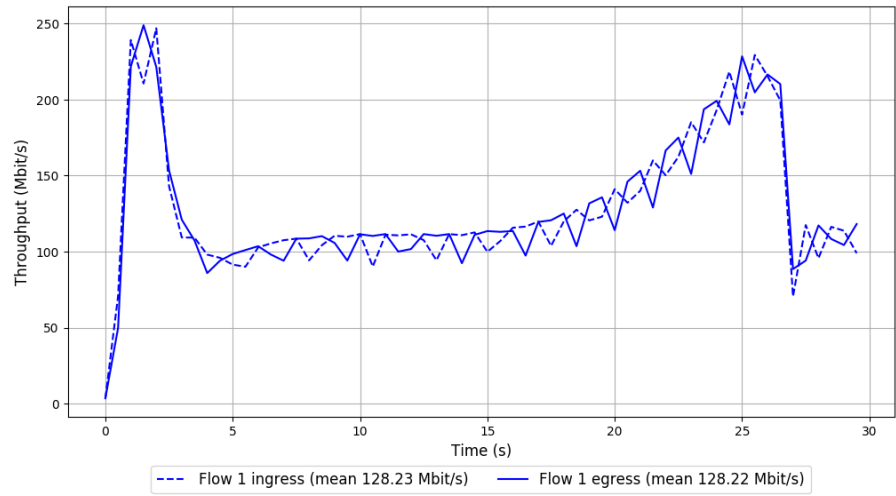
-- Flow 1:

Average throughput: 128.22 Mbit/s

95th percentile per-packet one-way delay: 56.774 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-30 21:57:52

End at: 2018-01-30 21:58:23

Below is generated by plot.py at 2018-01-30 23:41:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.63 Mbit/s

95th percentile per-packet one-way delay: 55.872 ms

Loss rate: 0.00%

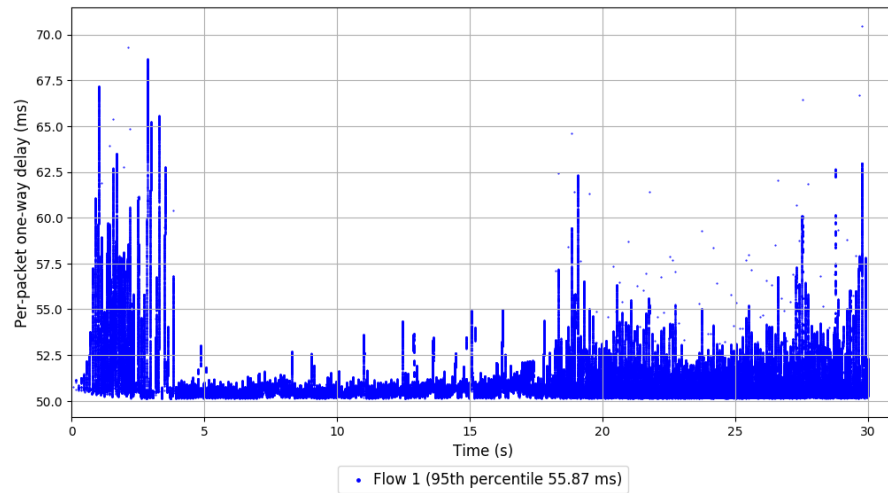
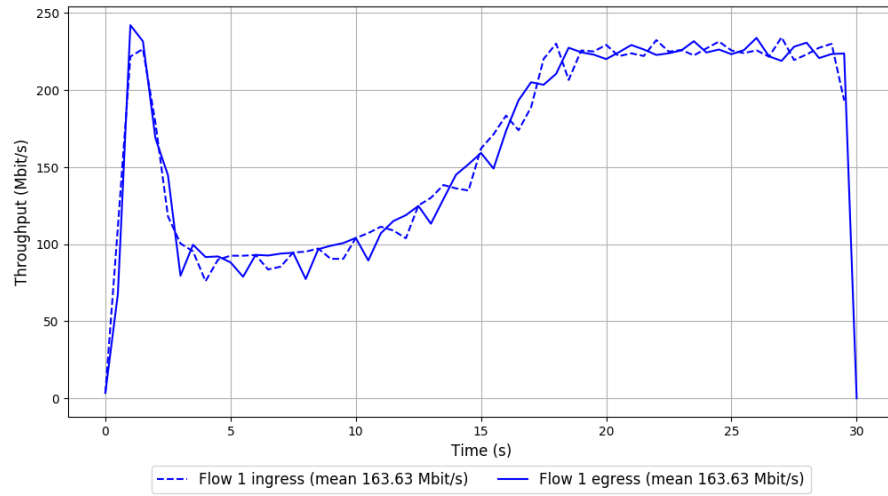
-- Flow 1:

Average throughput: 163.63 Mbit/s

95th percentile per-packet one-way delay: 55.872 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-30 22:11:47

End at: 2018-01-30 22:12:17

Below is generated by plot.py at 2018-01-30 23:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.49 Mbit/s

95th percentile per-packet one-way delay: 53.199 ms

Loss rate: 0.00%

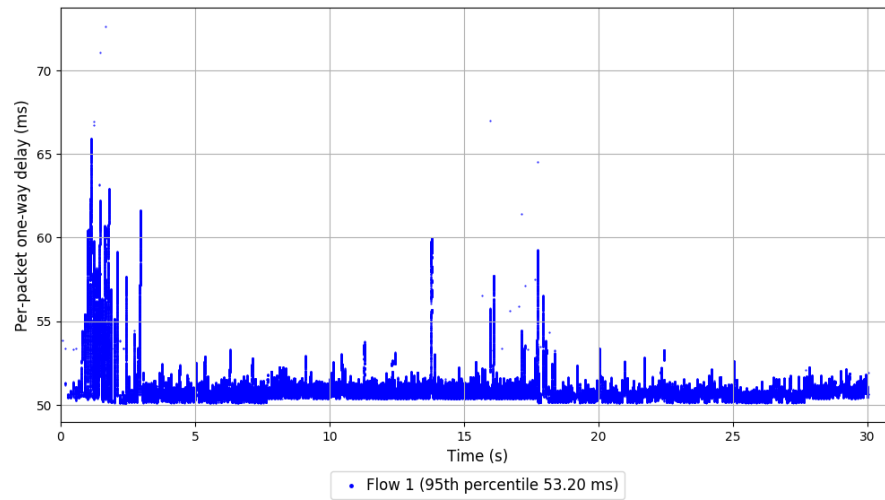
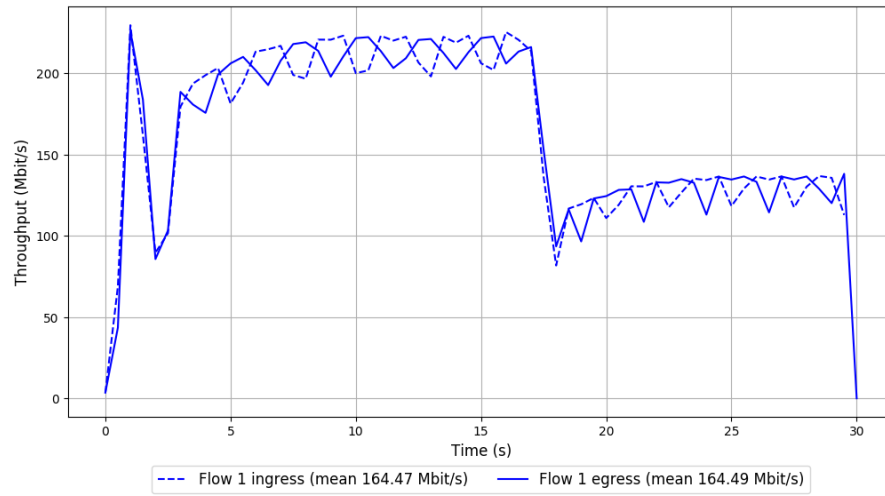
-- Flow 1:

Average throughput: 164.49 Mbit/s

95th percentile per-packet one-way delay: 53.199 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

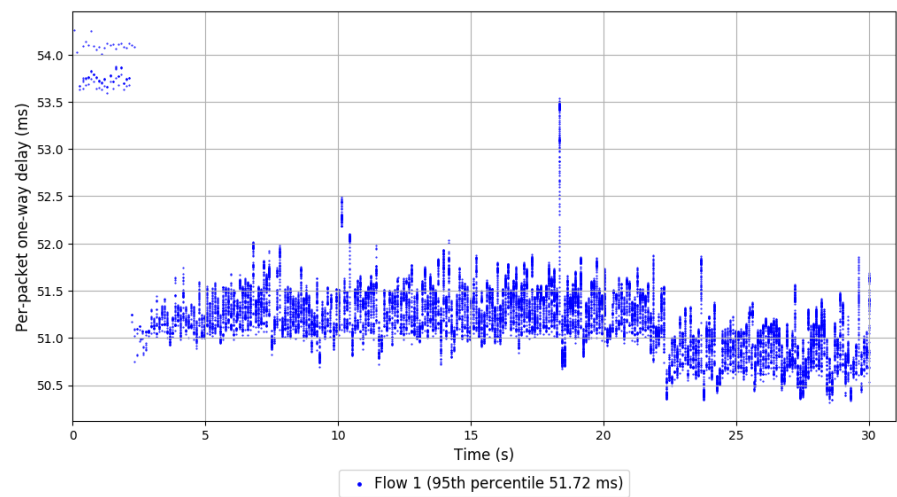
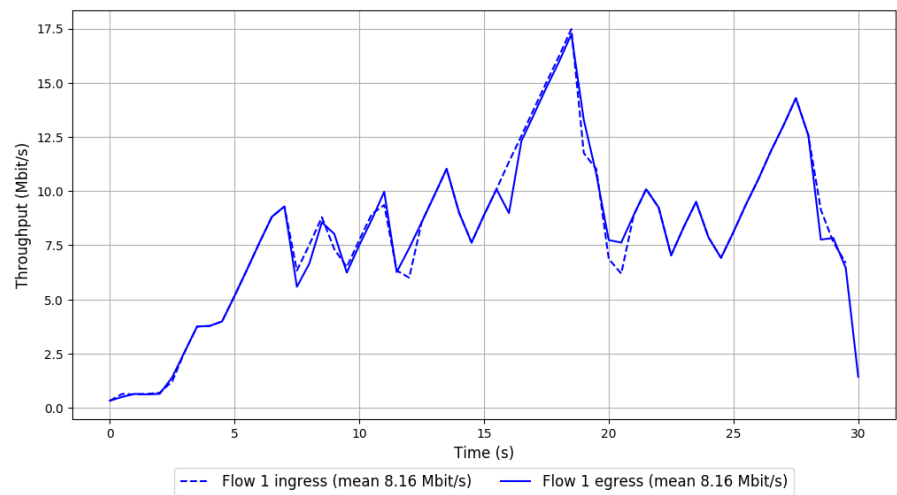


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-30 20:06:22
End at: 2018-01-30 20:06:52

# Below is generated by plot.py at 2018-01-30 23:41:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.16 Mbit/s
95th percentile per-packet one-way delay: 51.715 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.16 Mbit/s
95th percentile per-packet one-way delay: 51.715 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

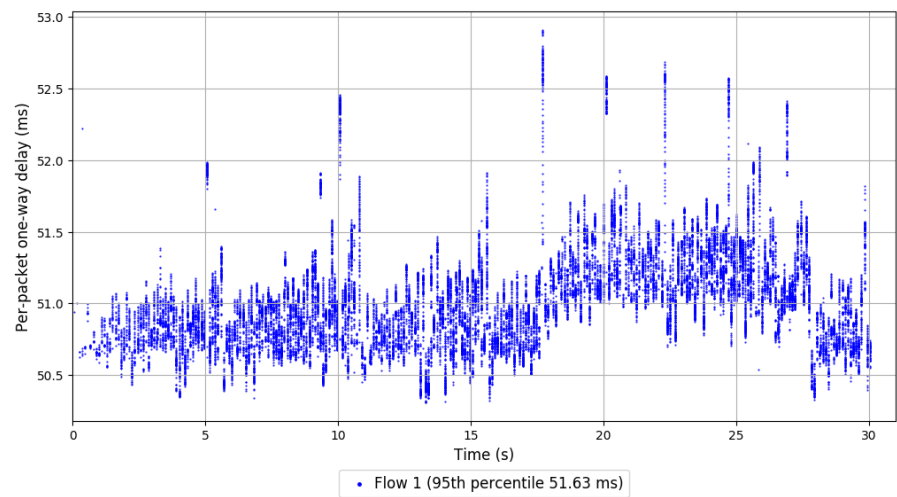
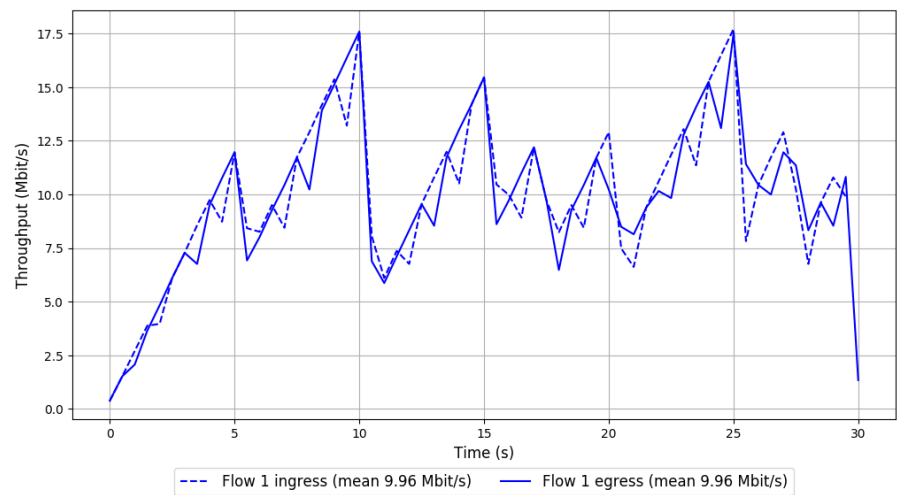


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-30 20:20:07
End at: 2018-01-30 20:20:37

# Below is generated by plot.py at 2018-01-30 23:41:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.96 Mbit/s
95th percentile per-packet one-way delay: 51.627 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 9.96 Mbit/s
95th percentile per-packet one-way delay: 51.627 ms
Loss rate: 0.05%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-30 20:33:37

End at: 2018-01-30 20:34:07

Below is generated by plot.py at 2018-01-30 23:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 53.799 ms

Loss rate: 0.50%

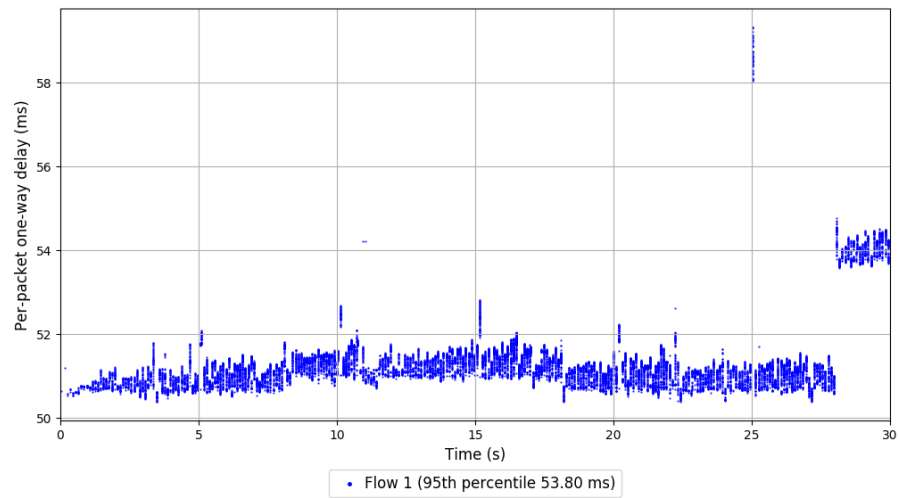
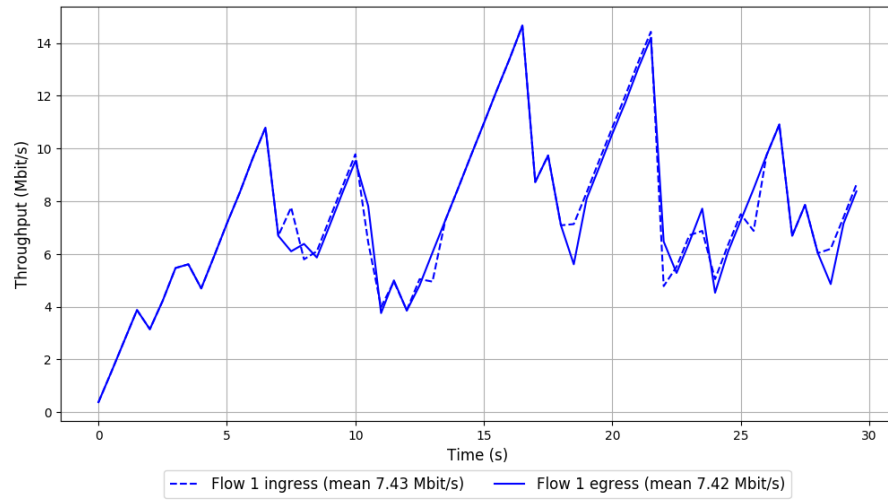
-- Flow 1:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 53.799 ms

Loss rate: 0.50%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-30 20:47:22

End at: 2018-01-30 20:47:52

Below is generated by plot.py at 2018-01-30 23:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 55.015 ms

Loss rate: 0.02%

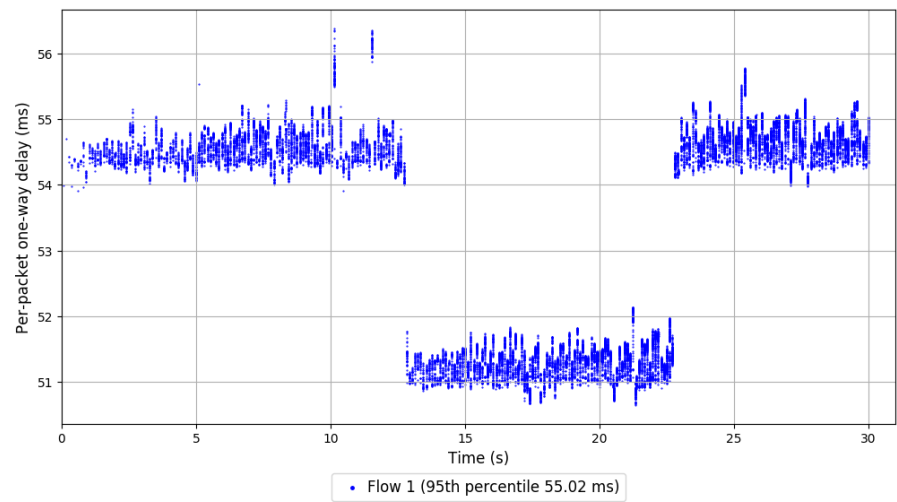
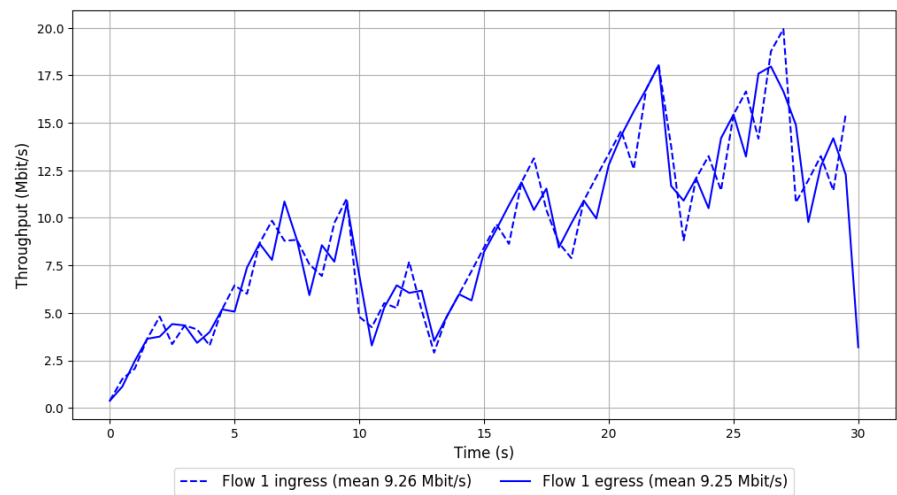
-- Flow 1:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 55.015 ms

Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-30 21:01:14

End at: 2018-01-30 21:01:44

Below is generated by plot.py at 2018-01-30 23:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 51.510 ms

Loss rate: 0.00%

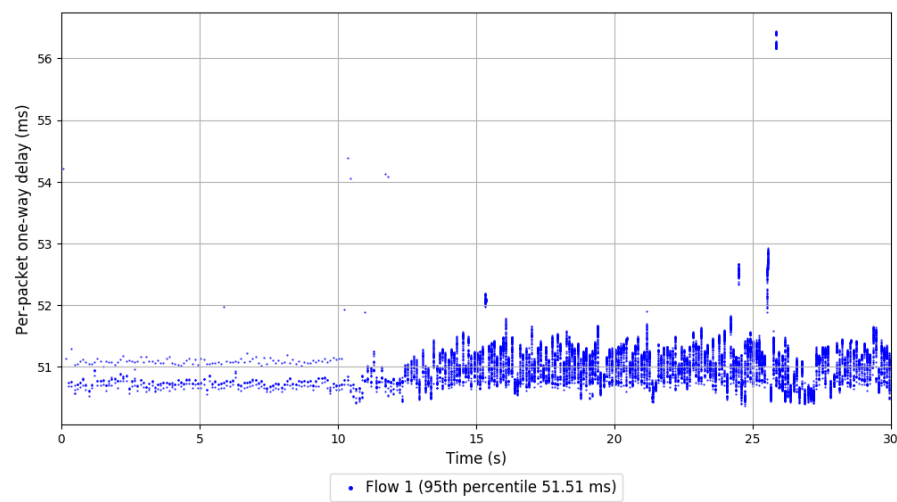
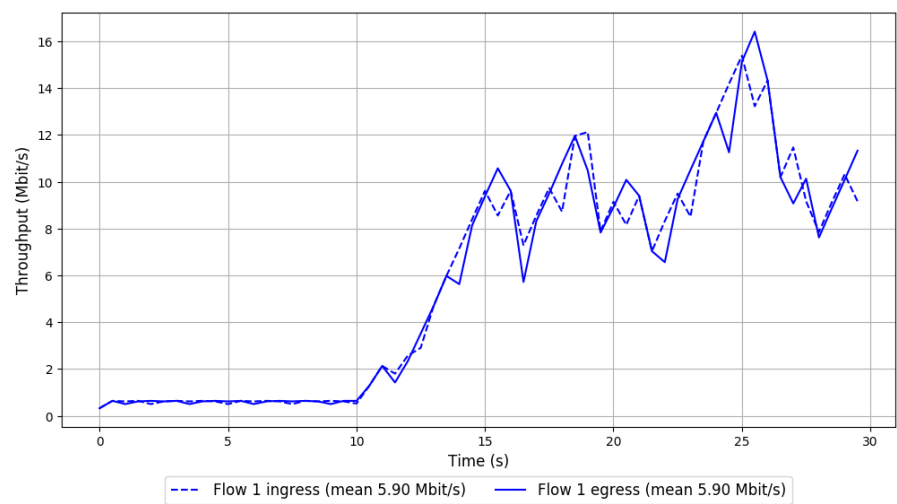
-- Flow 1:

Average throughput: 5.90 Mbit/s

95th percentile per-packet one-way delay: 51.510 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-30 21:14:58

End at: 2018-01-30 21:15:28

Below is generated by plot.py at 2018-01-30 23:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 54.733 ms

Loss rate: 0.09%

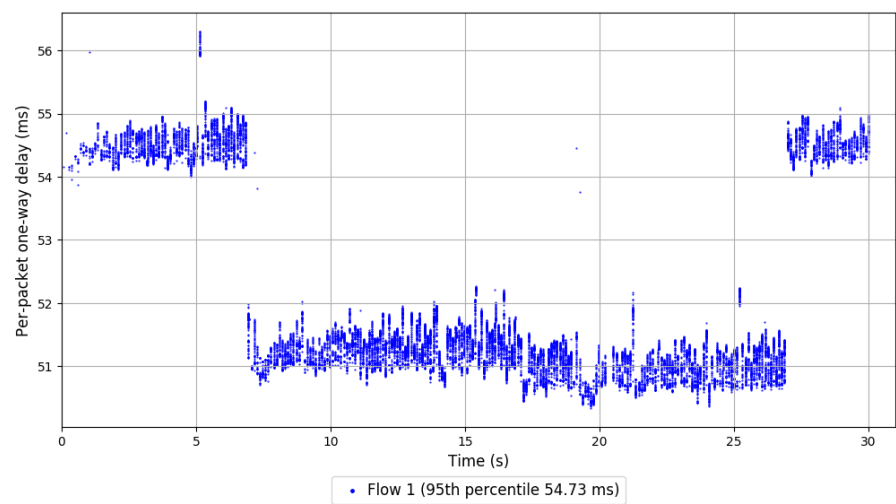
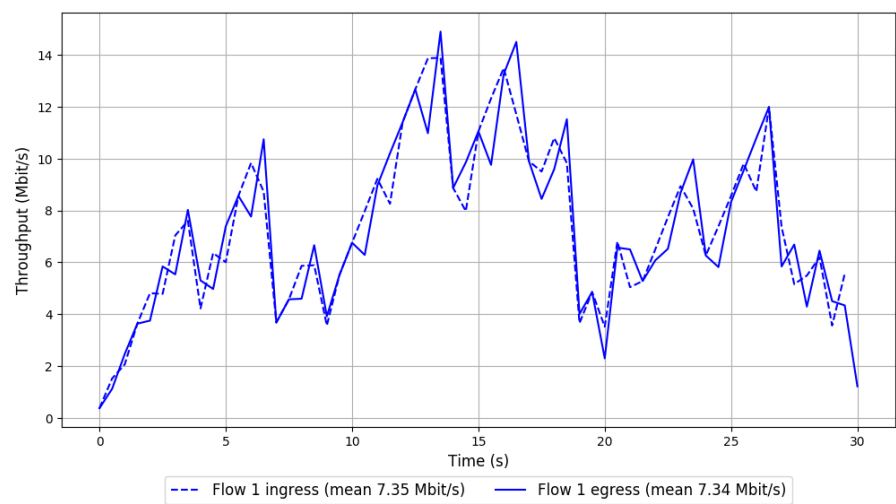
-- Flow 1:

Average throughput: 7.34 Mbit/s

95th percentile per-packet one-way delay: 54.733 ms

Loss rate: 0.09%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-30 21:29:06

End at: 2018-01-30 21:29:36

Below is generated by plot.py at 2018-01-30 23:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 54.390 ms

Loss rate: 0.47%

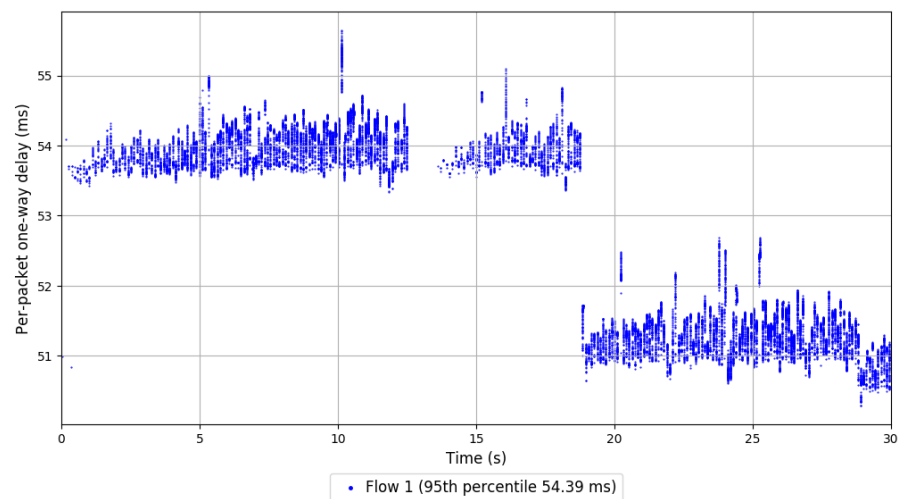
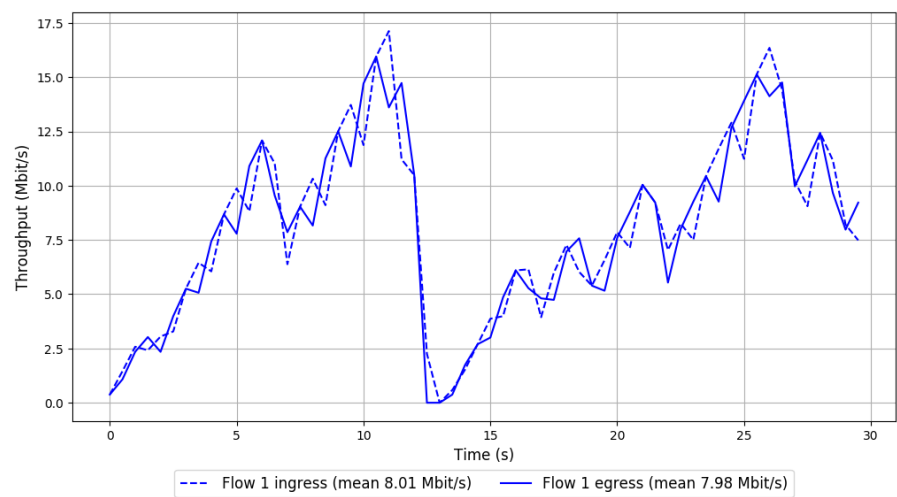
-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 54.390 ms

Loss rate: 0.47%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-30 21:42:52

End at: 2018-01-30 21:43:22

Below is generated by plot.py at 2018-01-30 23:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 0.03%

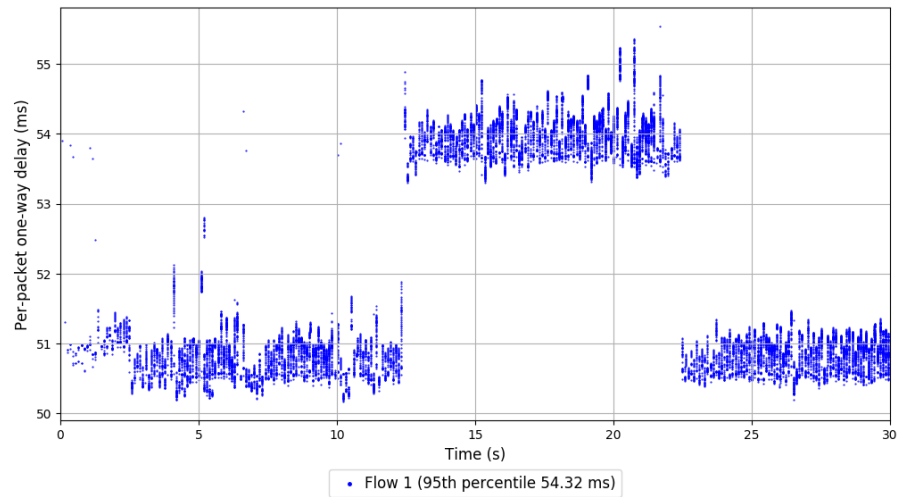
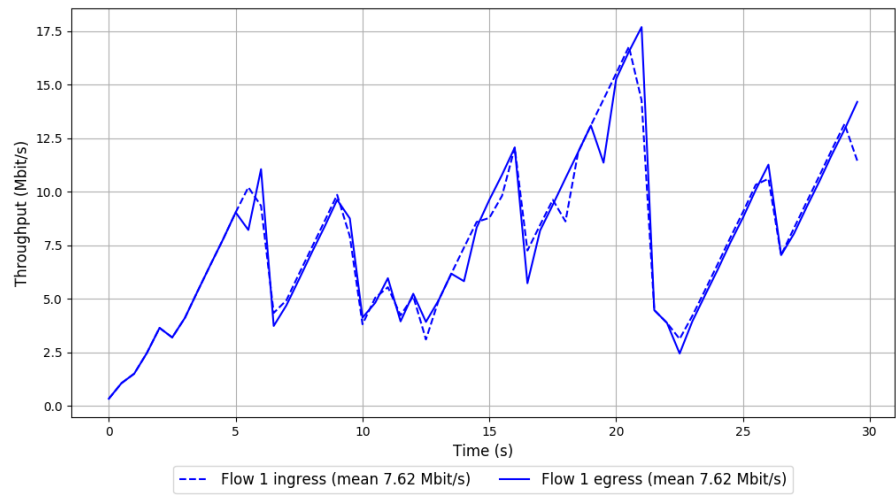
-- Flow 1:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 54.323 ms

Loss rate: 0.03%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-30 21:56:38

End at: 2018-01-30 21:57:08

Below is generated by plot.py at 2018-01-30 23:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 54.567 ms

Loss rate: 0.01%

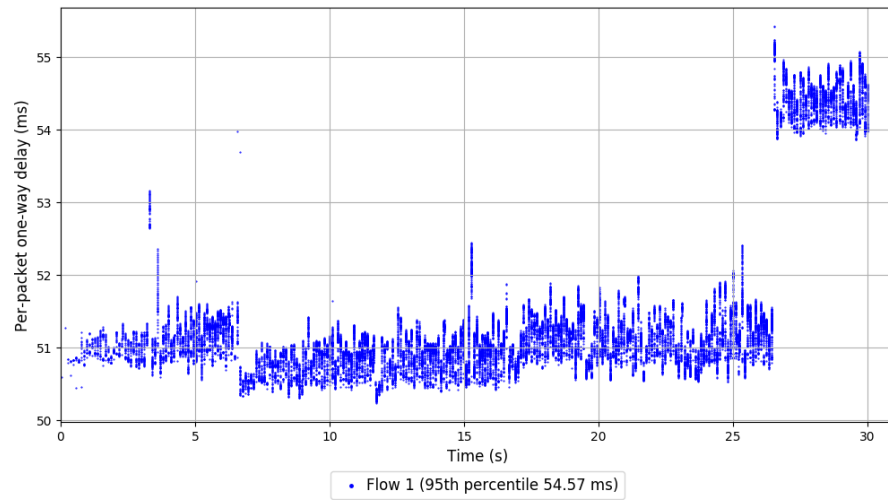
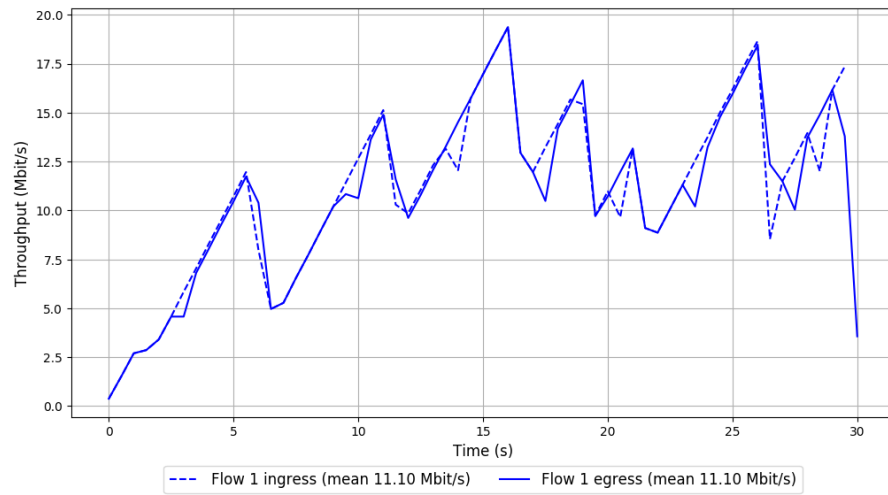
-- Flow 1:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 54.567 ms

Loss rate: 0.01%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-30 22:10:32

End at: 2018-01-30 22:11:02

Below is generated by plot.py at 2018-01-30 23:41:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.89 Mbit/s

95th percentile per-packet one-way delay: 51.439 ms

Loss rate: 0.00%

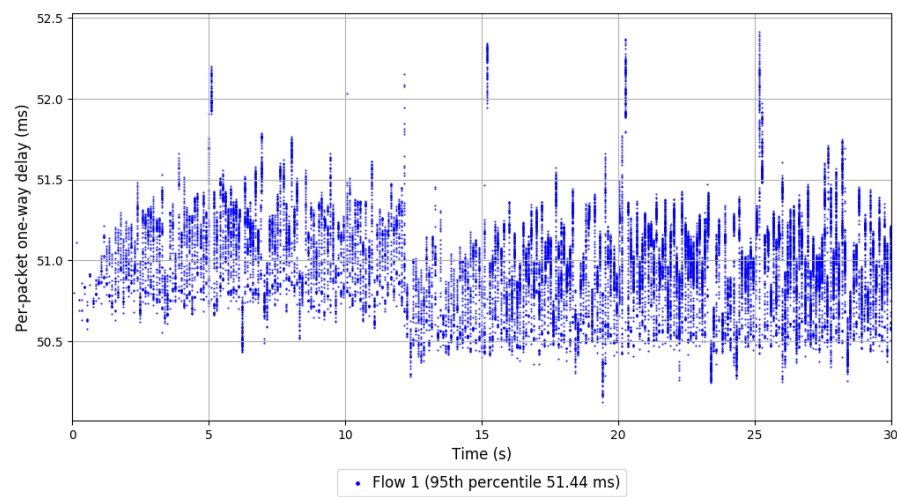
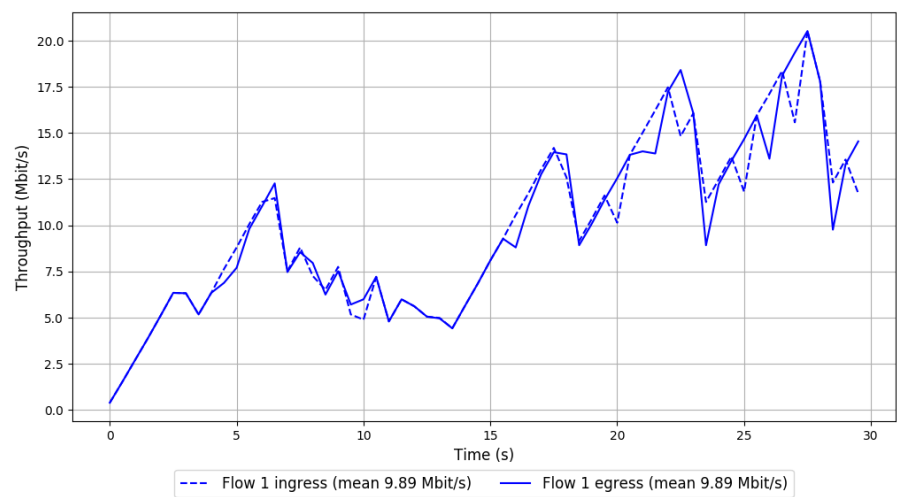
-- Flow 1:

Average throughput: 9.89 Mbit/s

95th percentile per-packet one-way delay: 51.439 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

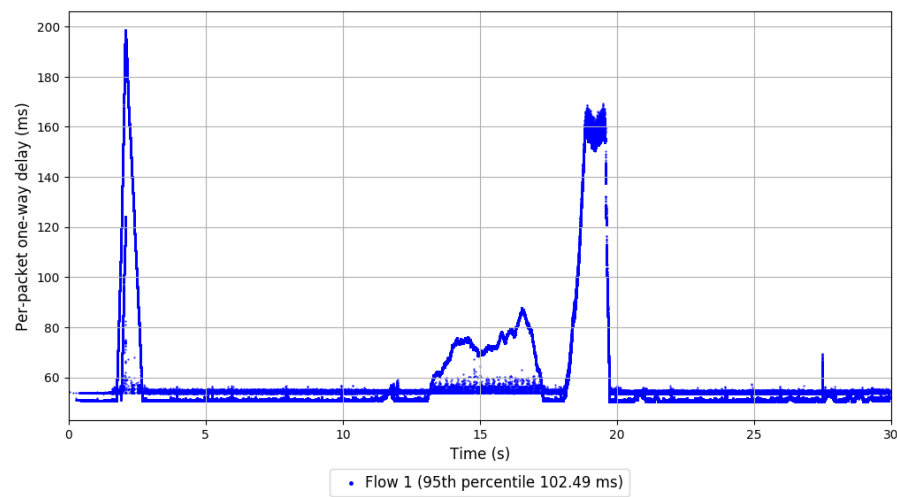
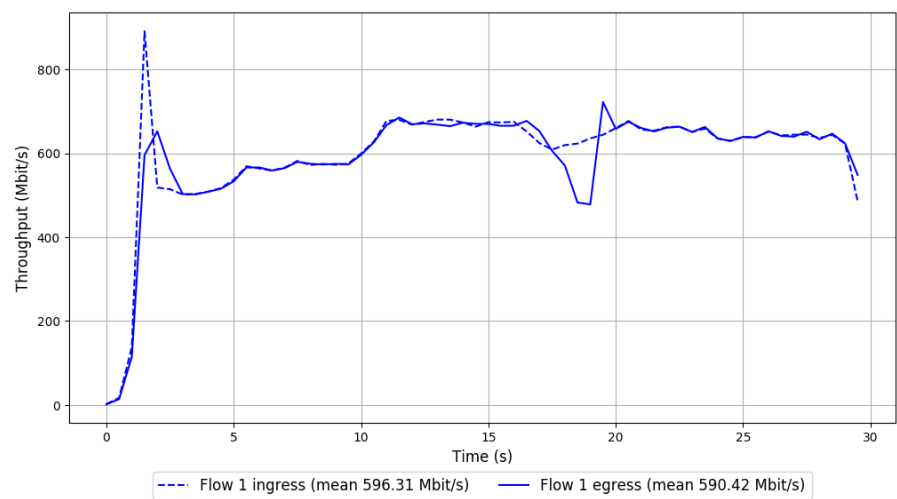


```
Run 1: Statistics of PCC

Start at: 2018-01-30 20:15:55
End at: 2018-01-30 20:16:25

# Below is generated by plot.py at 2018-01-30 23:49:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 590.42 Mbit/s
95th percentile per-packet one-way delay: 102.492 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 590.42 Mbit/s
95th percentile per-packet one-way delay: 102.492 ms
Loss rate: 0.99%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-30 20:29:28

End at: 2018-01-30 20:29:59

Below is generated by plot.py at 2018-01-30 23:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.57 Mbit/s

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

Loss rate: 0.23%

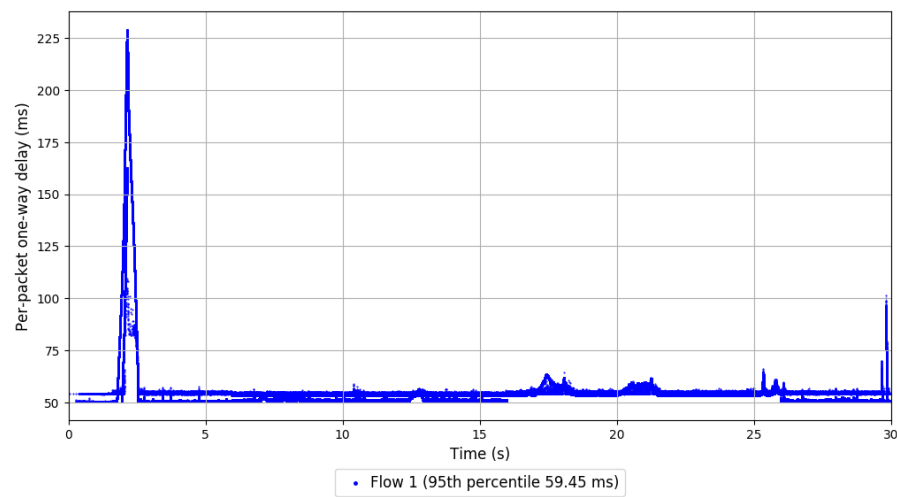
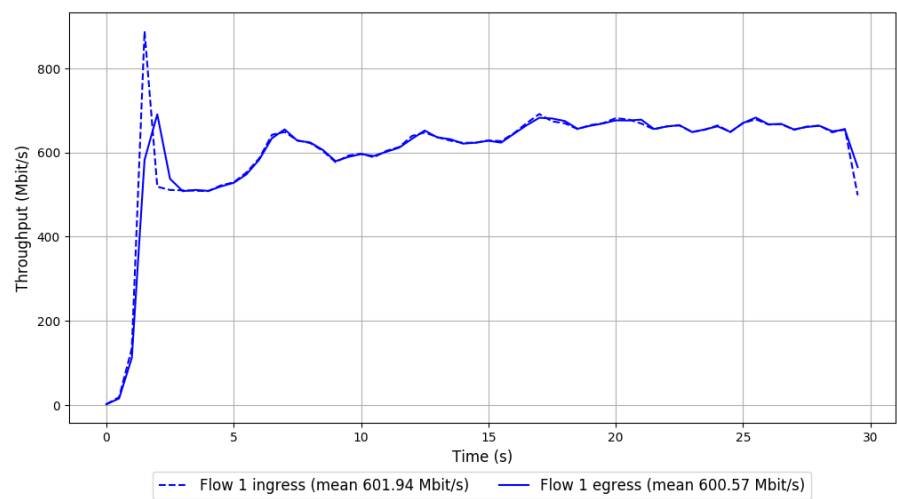
-- Flow 1:

Average throughput: 600.57 Mbit/s

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

Loss rate: 0.23%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-30 20:43:08

End at: 2018-01-30 20:43:38

Below is generated by plot.py at 2018-01-30 23:50:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.19 Mbit/s

95th percentile per-packet one-way delay: 137.018 ms

Loss rate: 1.38%

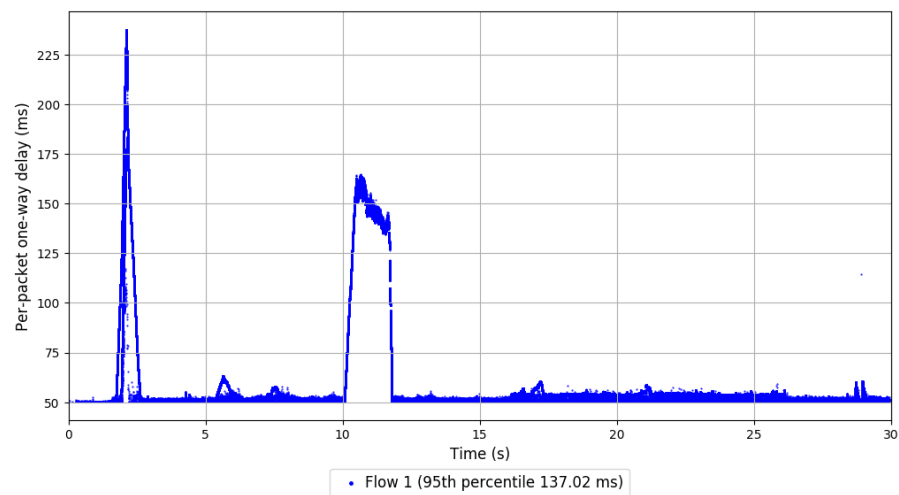
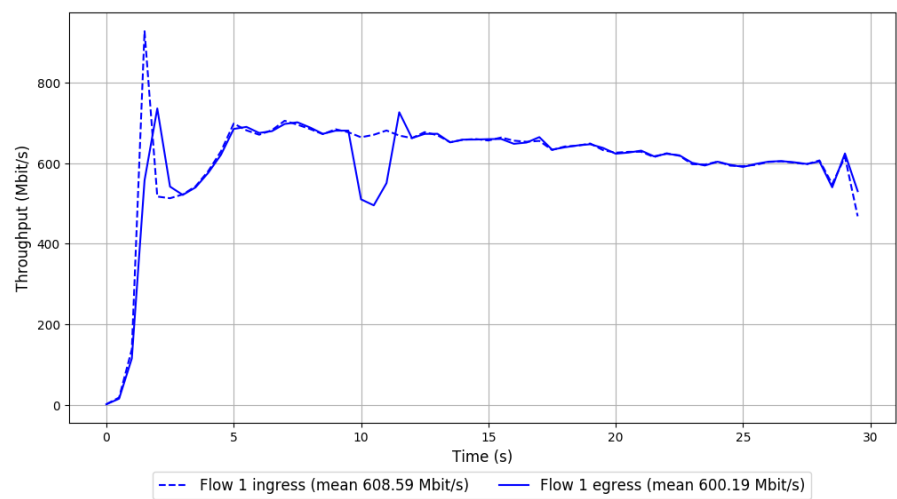
-- Flow 1:

Average throughput: 600.19 Mbit/s

95th percentile per-packet one-way delay: 137.018 ms

Loss rate: 1.38%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-30 20:56:50

End at: 2018-01-30 20:57:20

Below is generated by plot.py at 2018-01-30 23:50:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.34 Mbit/s

95th percentile per-packet one-way delay: 77.680 ms

Loss rate: 0.38%

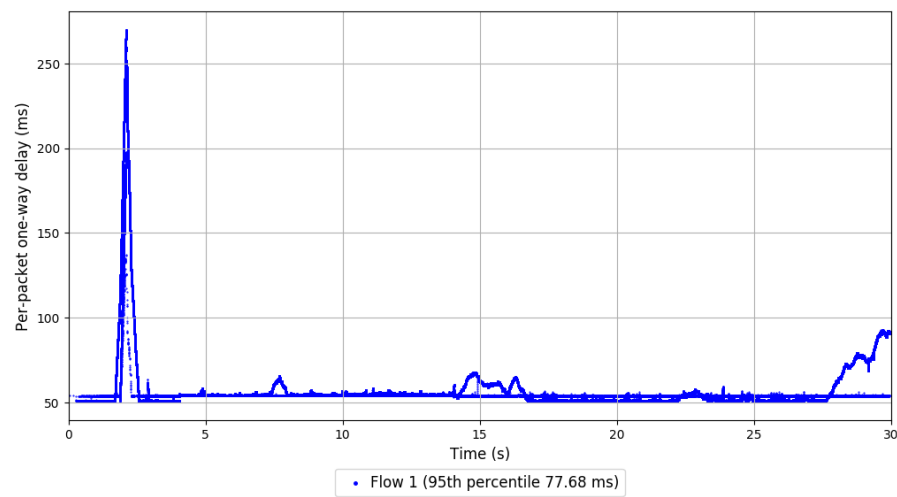
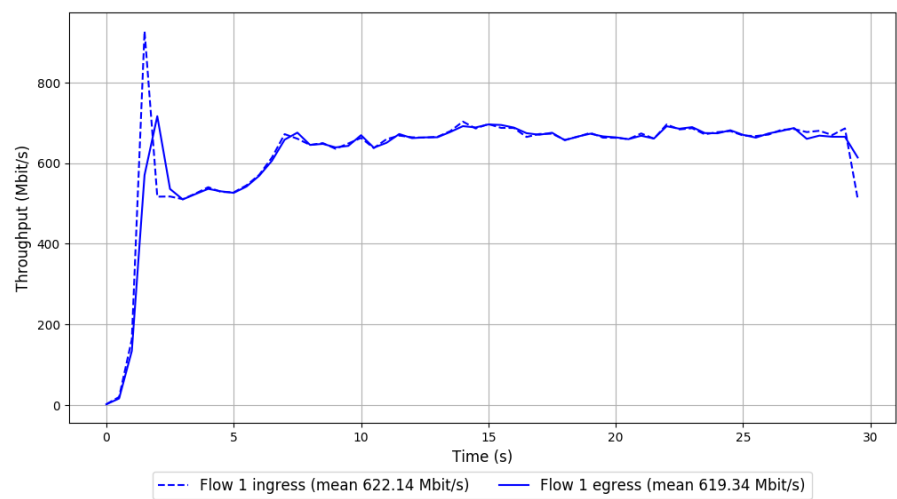
-- Flow 1:

Average throughput: 619.34 Mbit/s

95th percentile per-packet one-way delay: 77.680 ms

Loss rate: 0.38%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-30 21:10:36

End at: 2018-01-30 21:11:06

Below is generated by plot.py at 2018-01-30 23:50:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 602.24 Mbit/s

95th percentile per-packet one-way delay: 102.183 ms

Loss rate: 0.32%

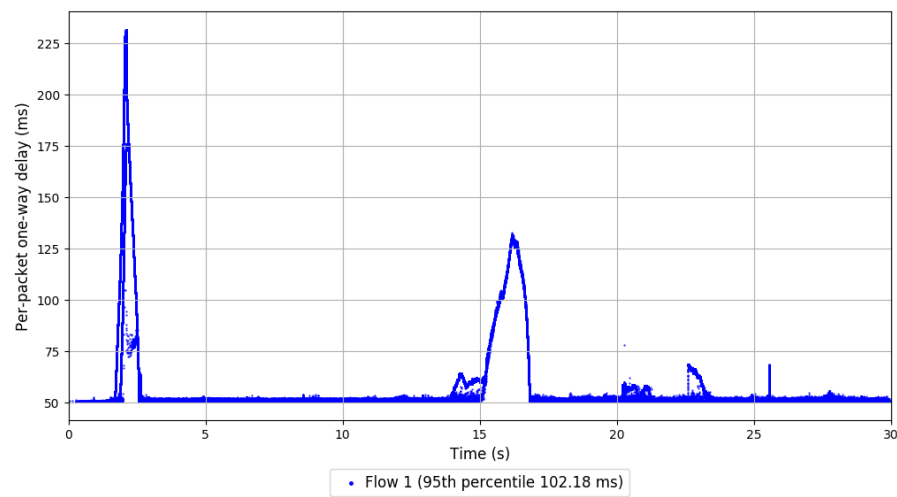
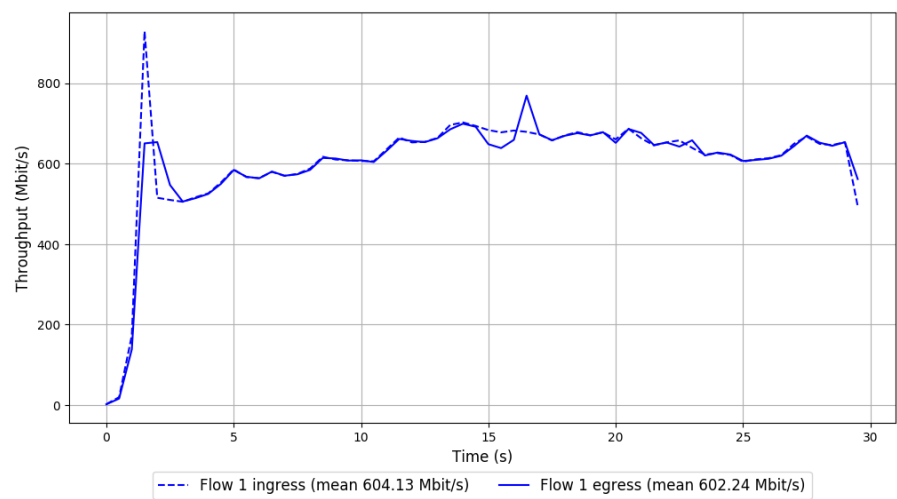
-- Flow 1:

Average throughput: 602.24 Mbit/s

95th percentile per-packet one-way delay: 102.183 ms

Loss rate: 0.32%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-30 21:24:26

End at: 2018-01-30 21:24:56

Below is generated by plot.py at 2018-01-30 23:50:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.47 Mbit/s

95th percentile per-packet one-way delay: 104.417 ms

Loss rate: 0.24%

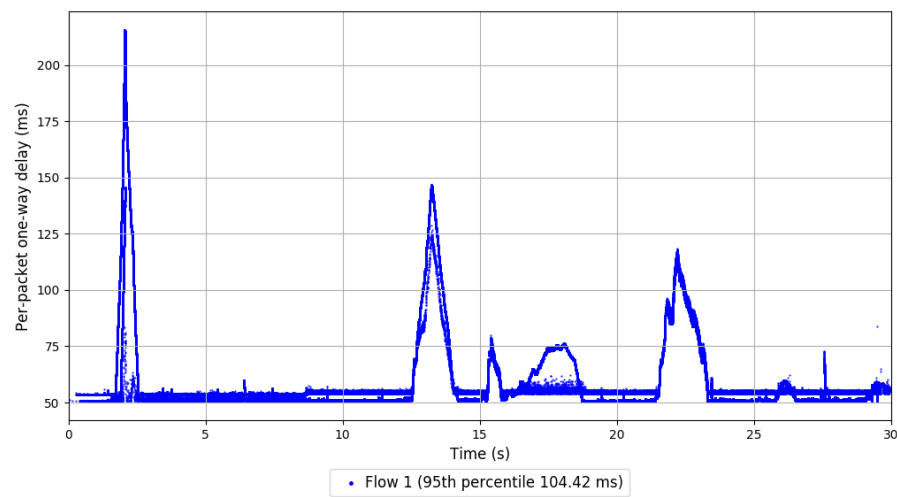
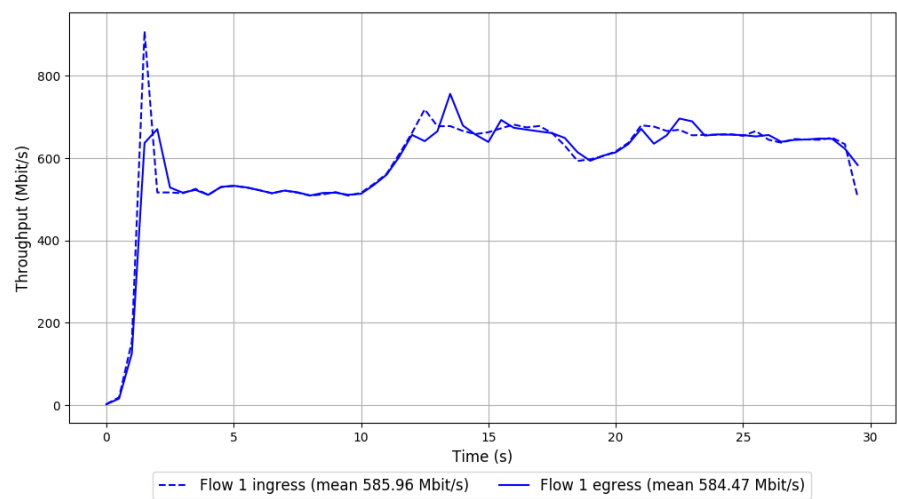
-- Flow 1:

Average throughput: 584.47 Mbit/s

95th percentile per-packet one-way delay: 104.417 ms

Loss rate: 0.24%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-30 21:38:31

End at: 2018-01-30 21:39:01

Below is generated by plot.py at 2018-01-30 23:51:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.11 Mbit/s

95th percentile per-packet one-way delay: 100.665 ms

Loss rate: 0.32%

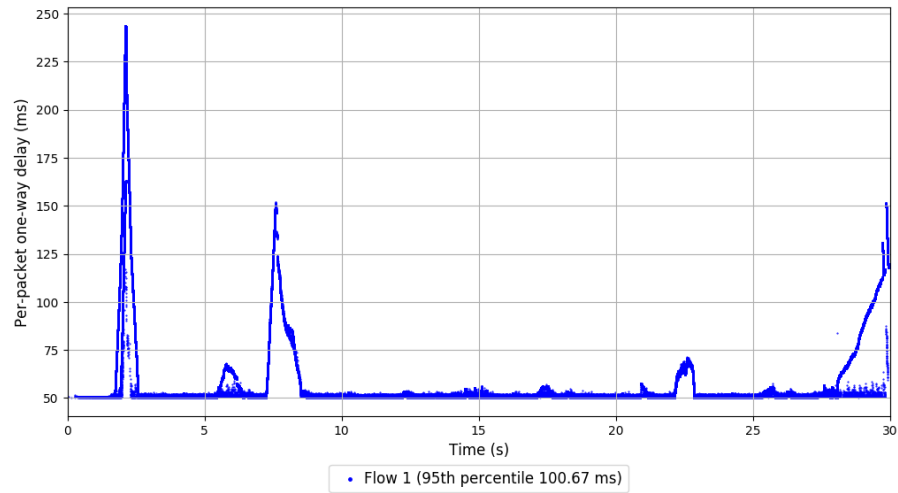
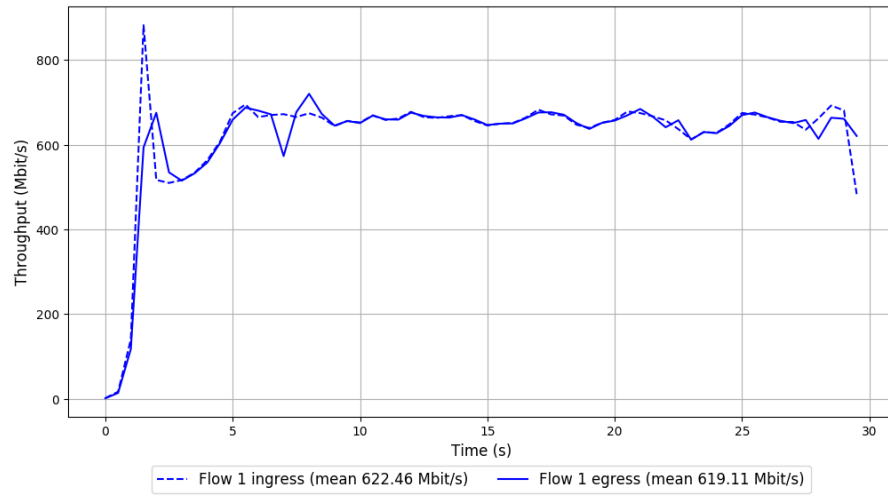
-- Flow 1:

Average throughput: 619.11 Mbit/s

95th percentile per-packet one-way delay: 100.665 ms

Loss rate: 0.32%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-30 21:52:21

End at: 2018-01-30 21:52:51

Below is generated by plot.py at 2018-01-30 23:51:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 612.44 Mbit/s

95th percentile per-packet one-way delay: 103.251 ms

Loss rate: 0.32%

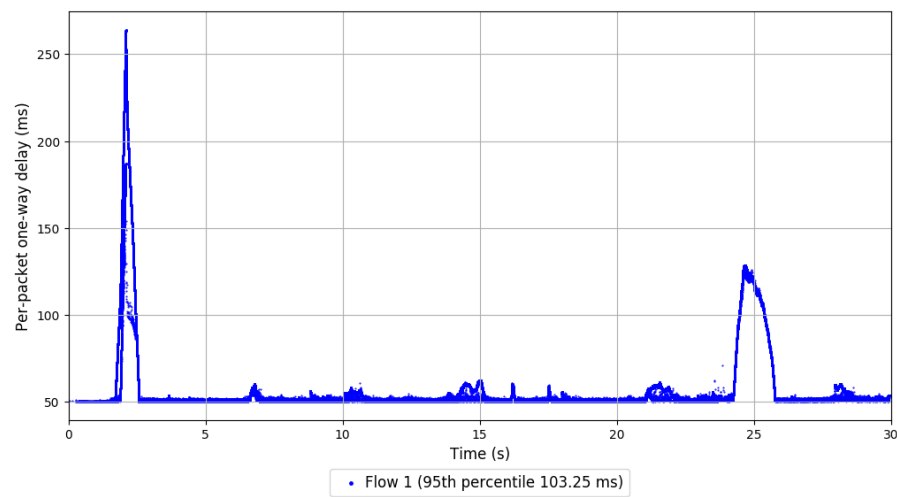
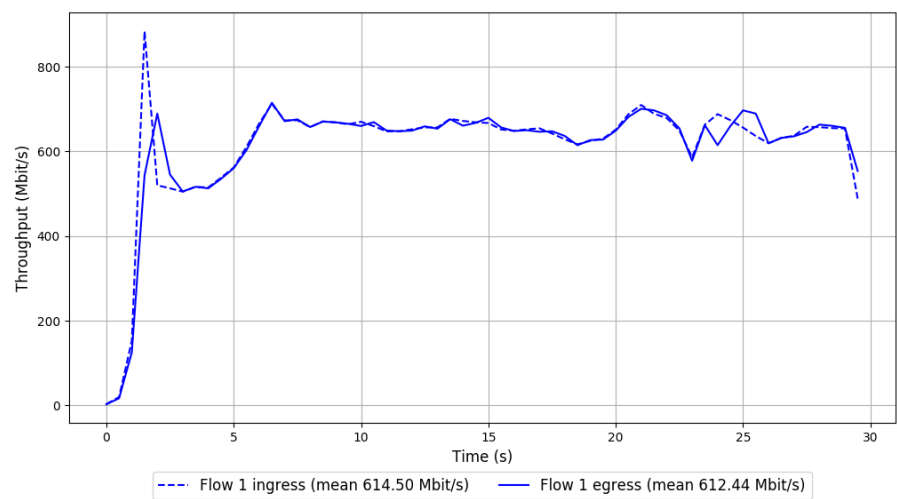
-- Flow 1:

Average throughput: 612.44 Mbit/s

95th percentile per-packet one-way delay: 103.251 ms

Loss rate: 0.32%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-30 22:06:06

End at: 2018-01-30 22:06:36

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.69 Mbit/s

95th percentile per-packet one-way delay: 240.711 ms

Loss rate: 3.45%

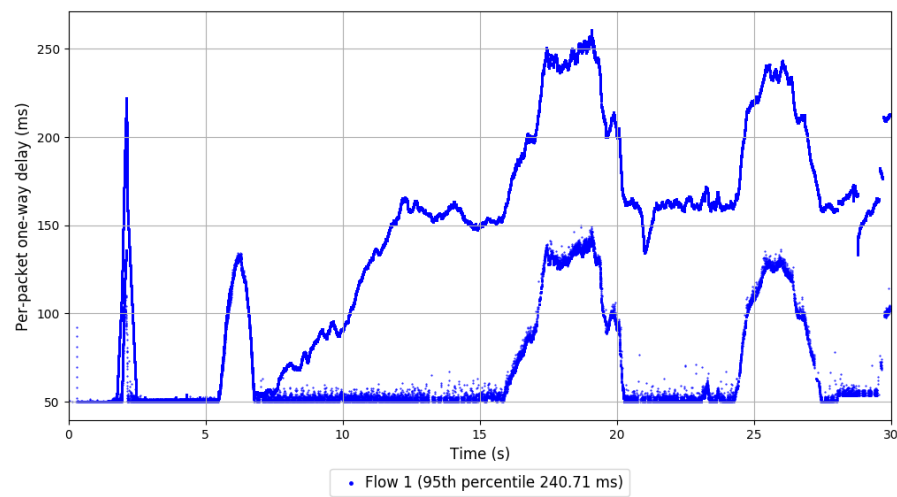
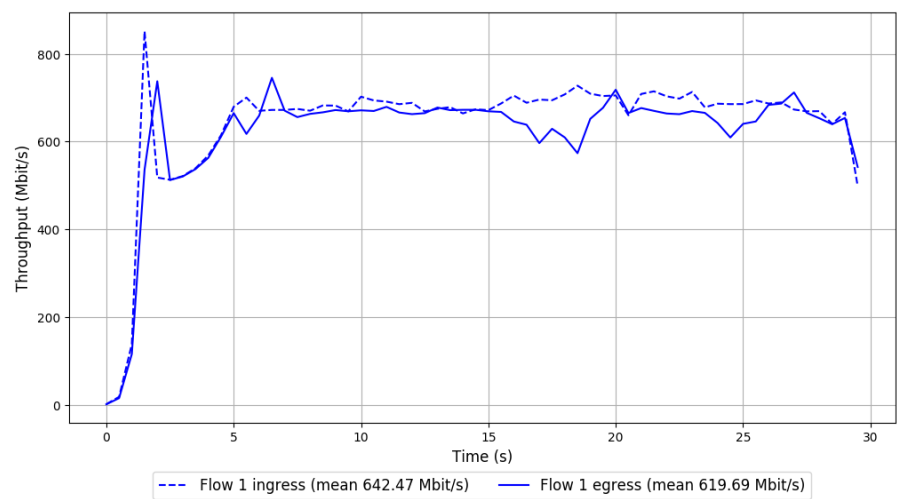
-- Flow 1:

Average throughput: 619.69 Mbit/s

95th percentile per-packet one-way delay: 240.711 ms

Loss rate: 3.45%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-30 22:20:05

End at: 2018-01-30 22:20:35

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 614.54 Mbit/s

95th percentile per-packet one-way delay: 156.895 ms

Loss rate: 0.40%

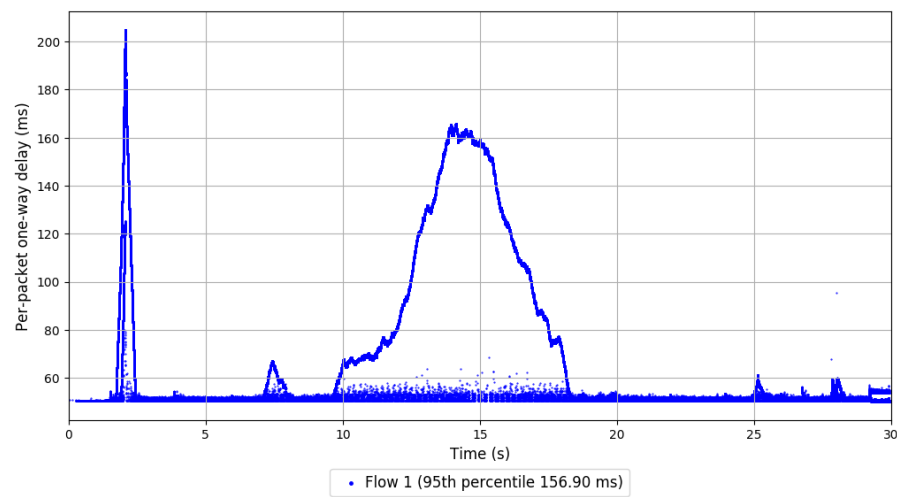
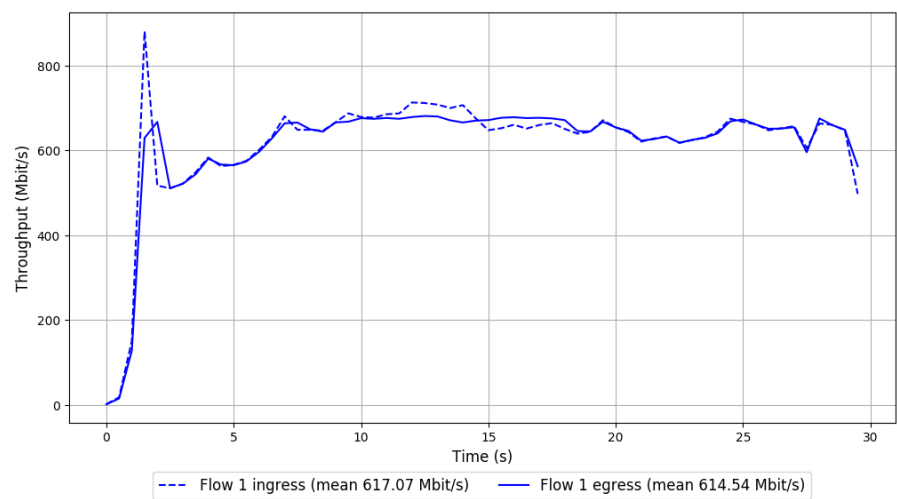
-- Flow 1:

Average throughput: 614.54 Mbit/s

95th percentile per-packet one-way delay: 156.895 ms

Loss rate: 0.40%

Run 10: Report of PCC — Data Link

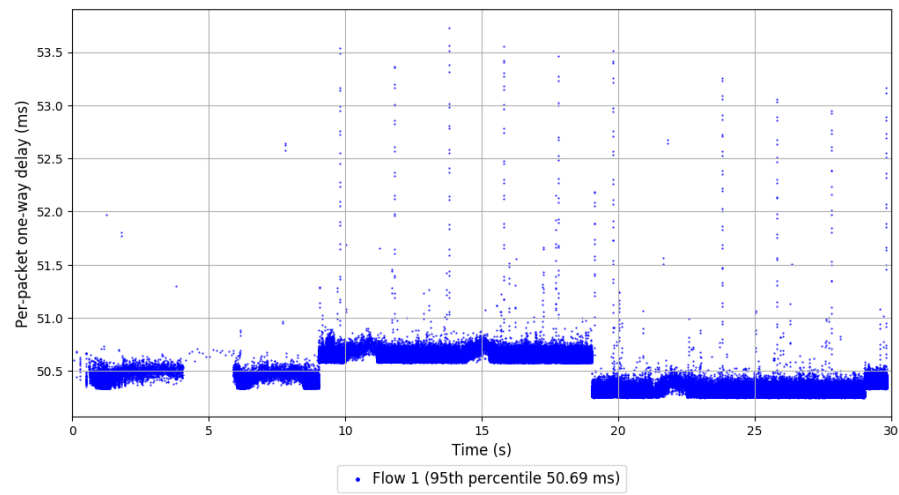
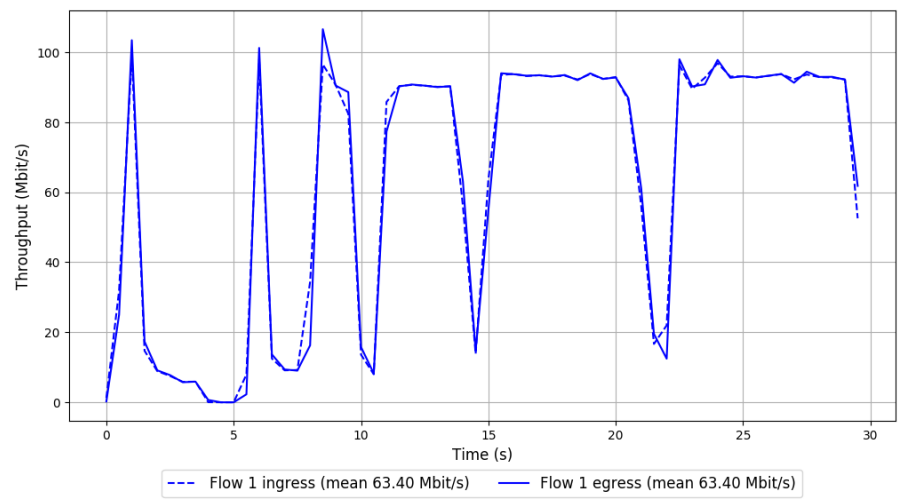


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-30 20:15:15
End at: 2018-01-30 20:15:45

# Below is generated by plot.py at 2018-01-30 23:59:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.40 Mbit/s
95th percentile per-packet one-way delay: 50.692 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 63.40 Mbit/s
95th percentile per-packet one-way delay: 50.692 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-30 20:28:49

End at: 2018-01-30 20:29:19

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.00%

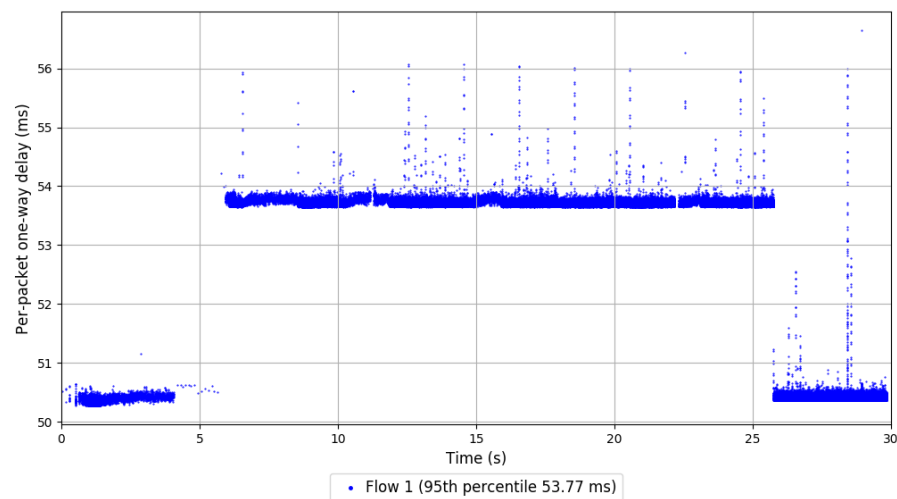
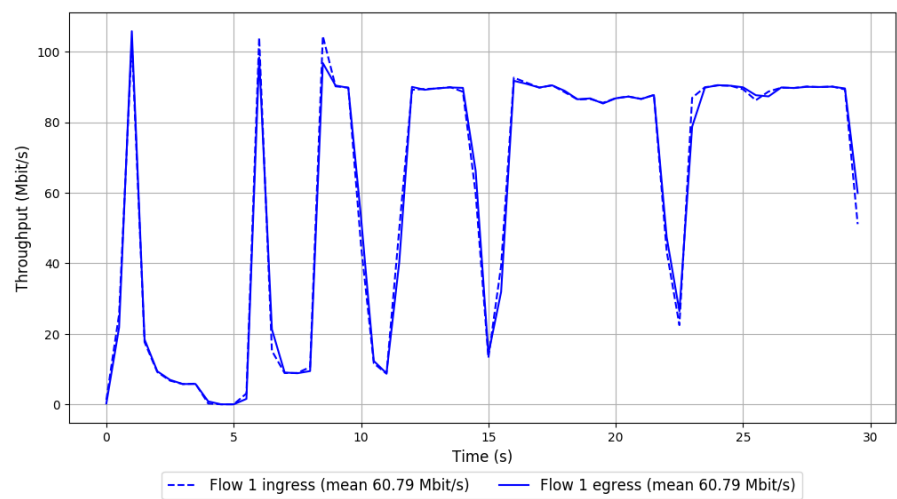
-- Flow 1:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-30 20:42:29

End at: 2018-01-30 20:42:59

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.70 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.00%

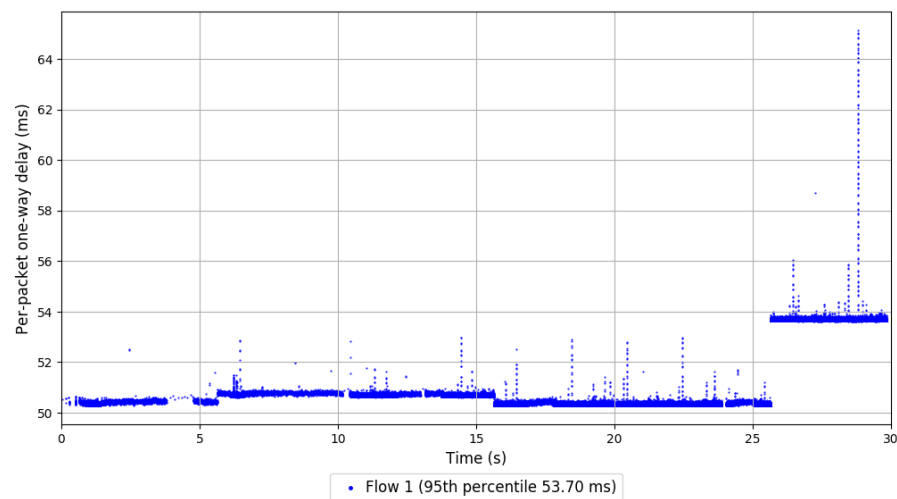
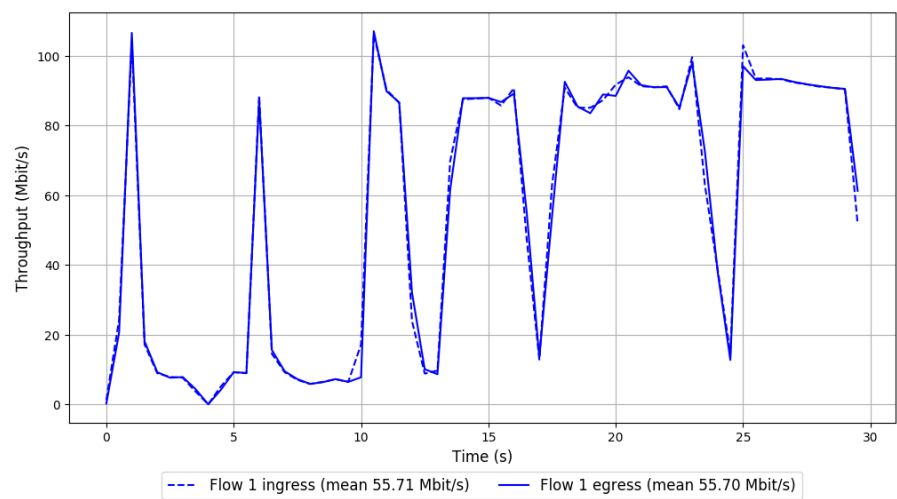
-- Flow 1:

Average throughput: 55.70 Mbit/s

95th percentile per-packet one-way delay: 53.701 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-30 20:56:10

End at: 2018-01-30 20:56:41

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.00%

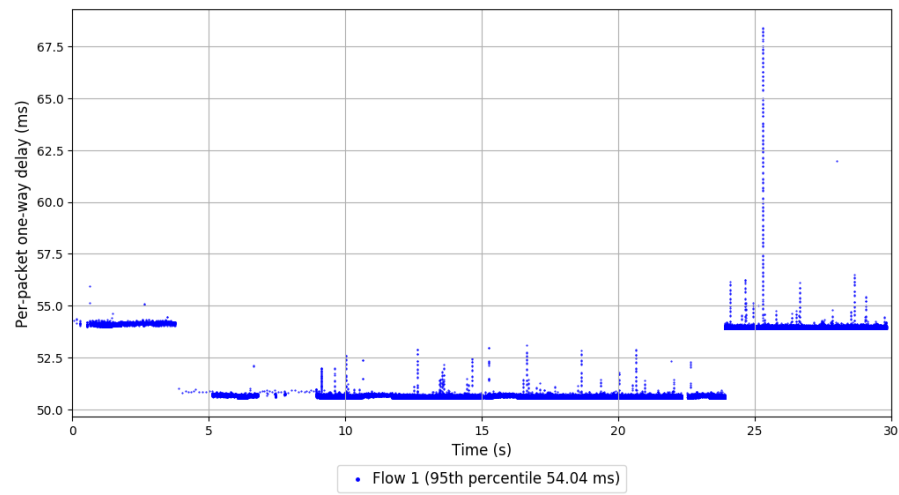
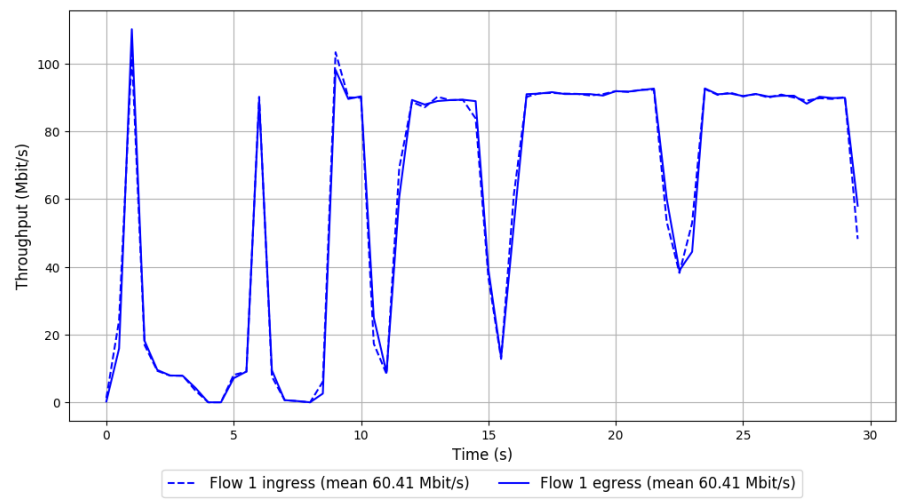
-- Flow 1:

Average throughput: 60.41 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-30 21:09:56

End at: 2018-01-30 21:10:26

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.23 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.00%

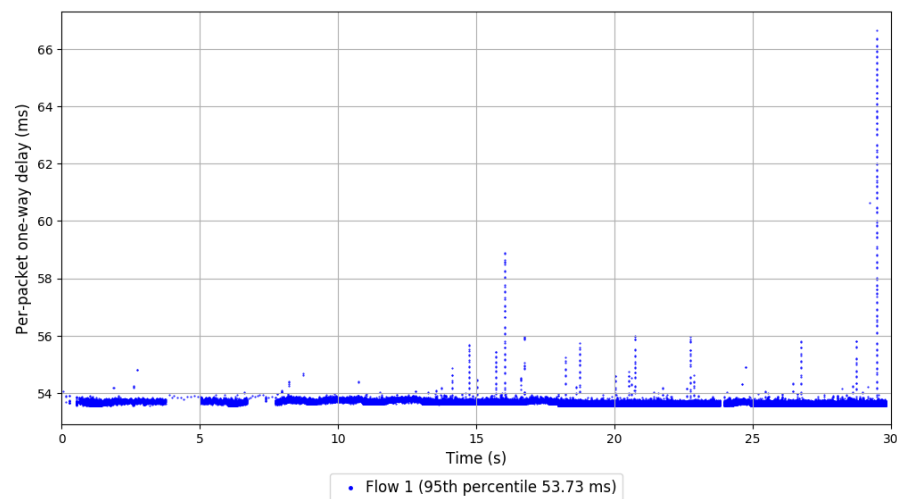
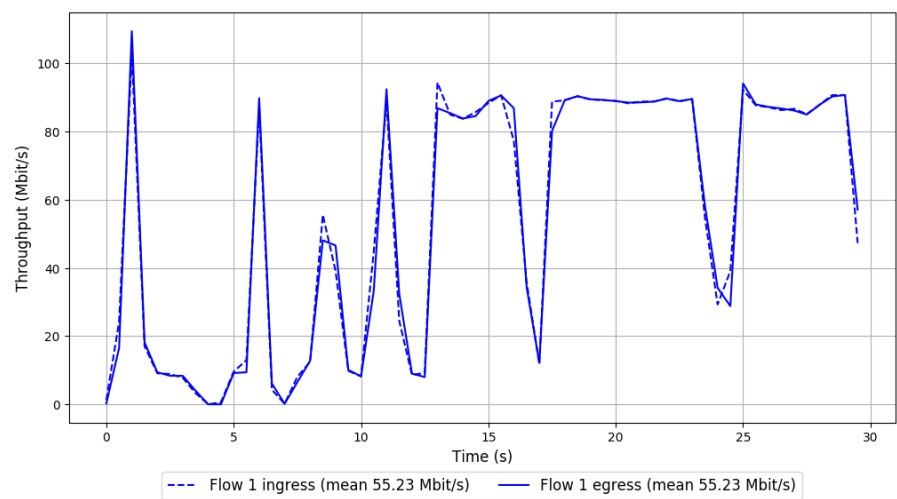
-- Flow 1:

Average throughput: 55.23 Mbit/s

95th percentile per-packet one-way delay: 53.729 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-30 21:23:46

End at: 2018-01-30 21:24:16

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.08 Mbit/s

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

Loss rate: 0.00%

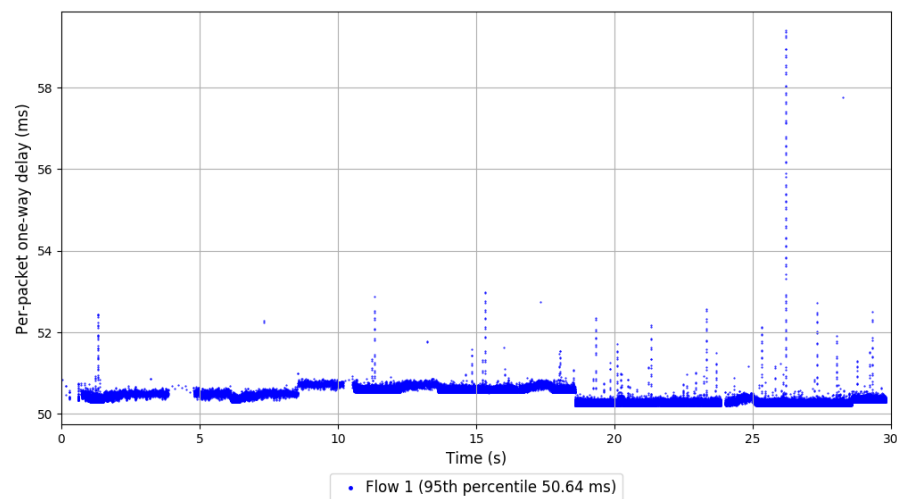
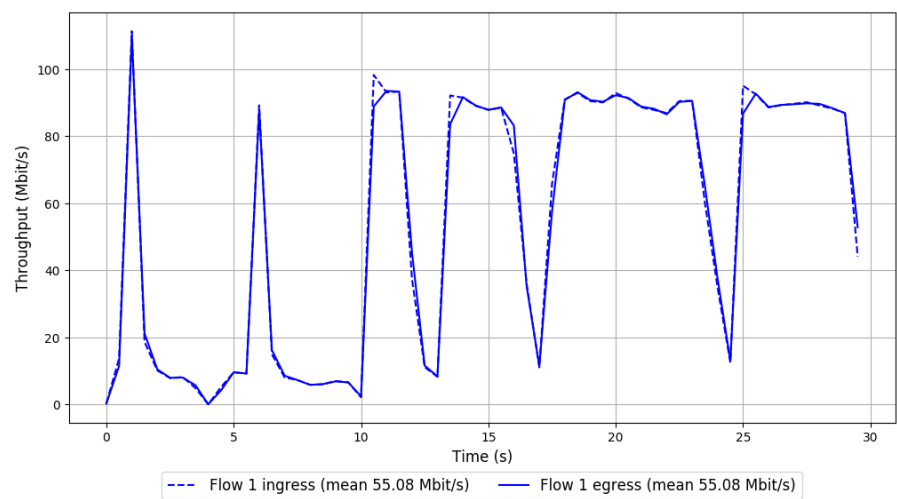
-- Flow 1:

Average throughput: 55.08 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

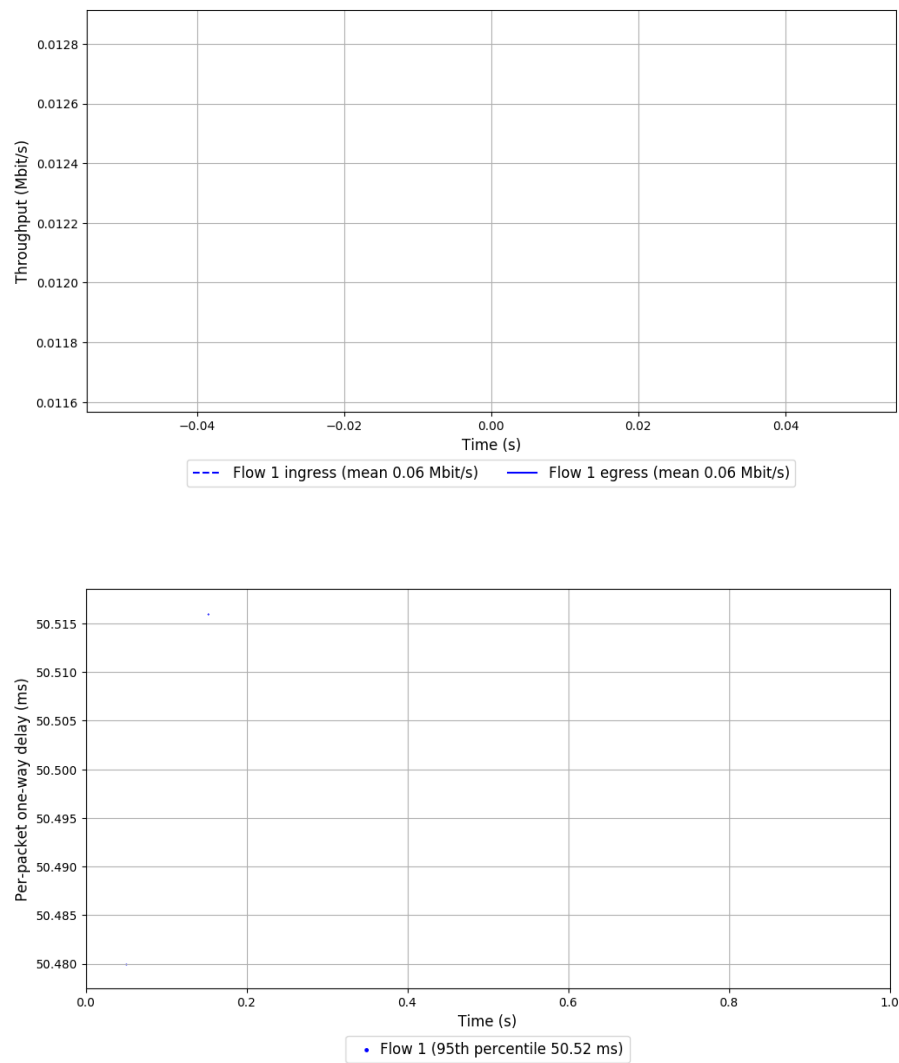


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-30 21:37:54

End at: 2018-01-30 21:38:24

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-30 21:51:41

End at: 2018-01-30 21:52:11

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 50.572 ms

Loss rate: 0.00%

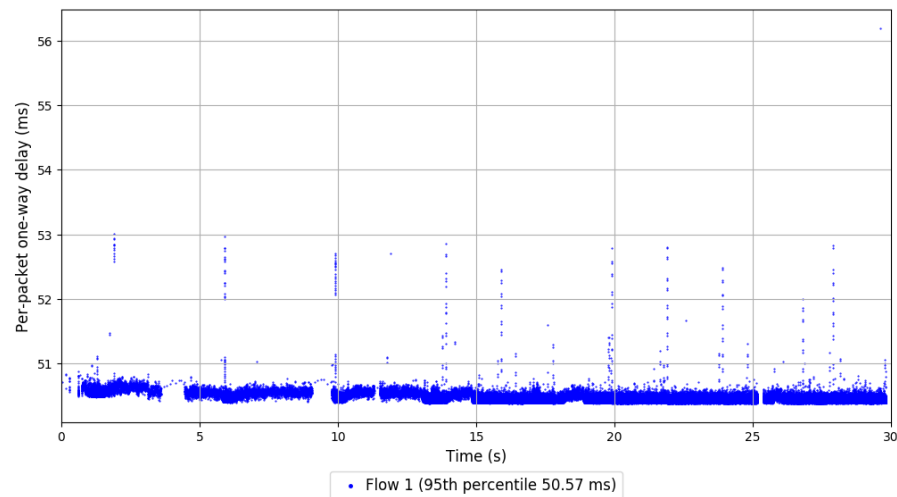
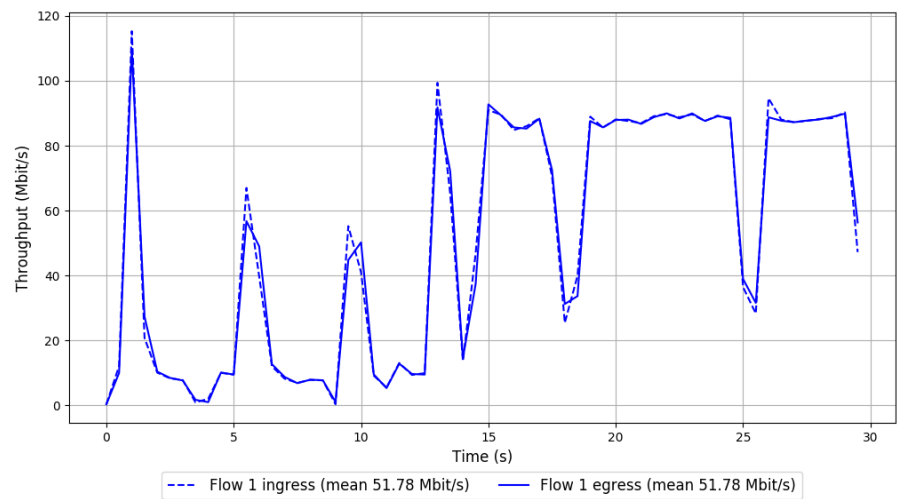
-- Flow 1:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 50.572 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

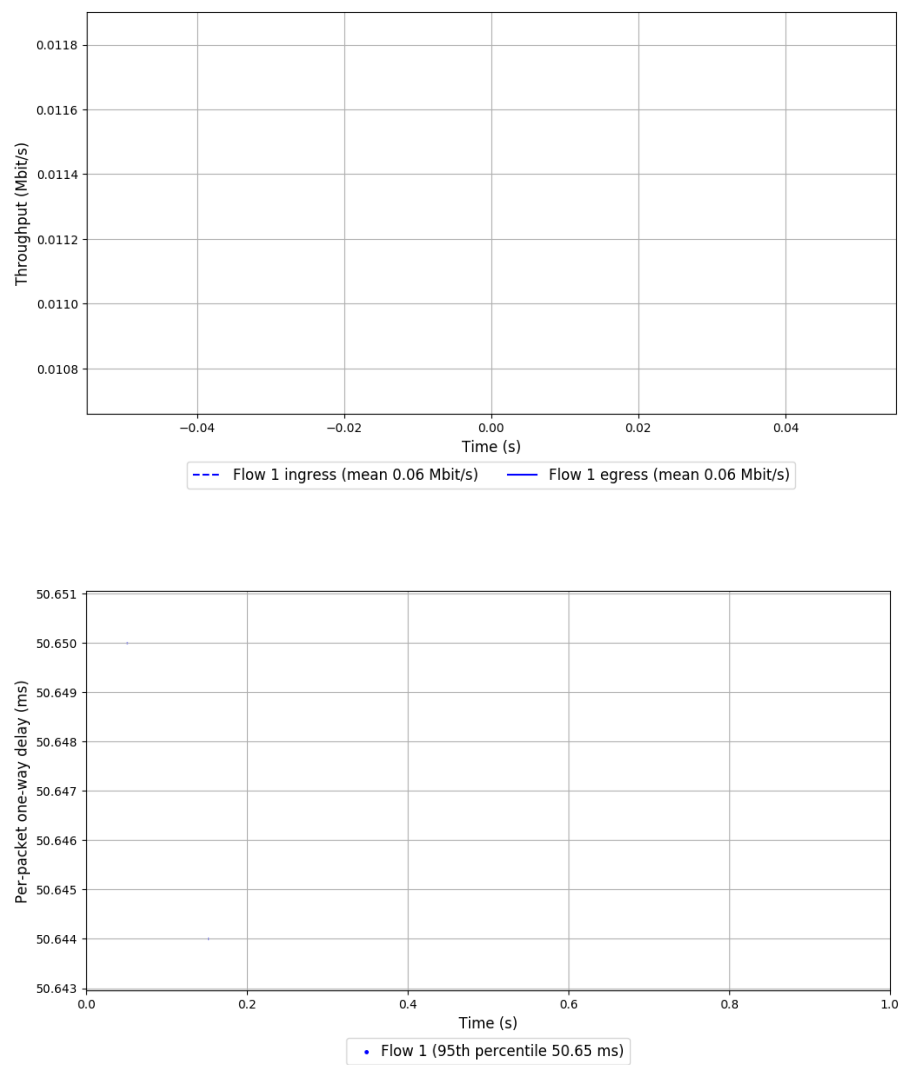


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-30 22:05:30

End at: 2018-01-30 22:06:00

Run 9: Report of QUIC Cubic — Data Link

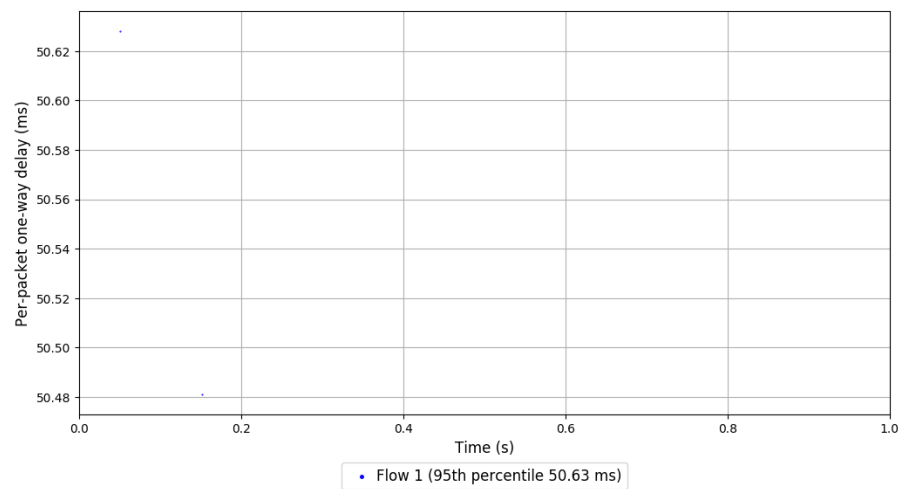
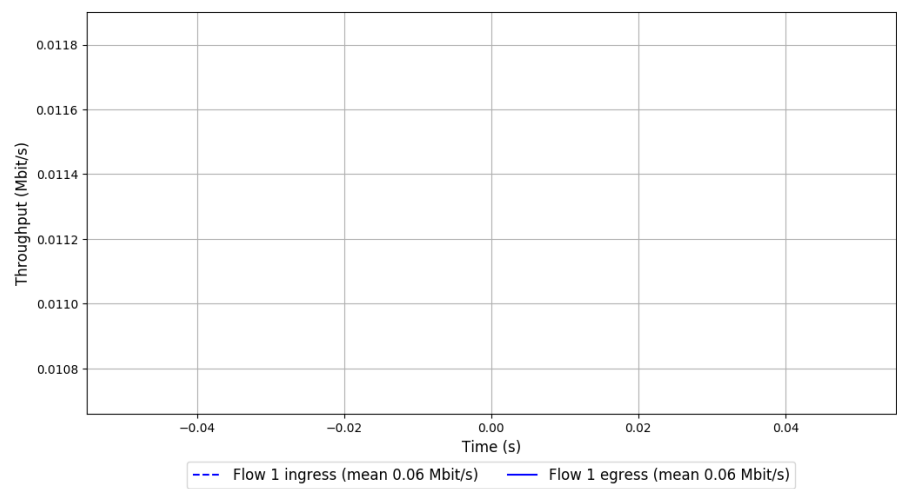


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-30 22:19:29

End at: 2018-01-30 22:19:59

Run 10: Report of QUIC Cubic — Data Link

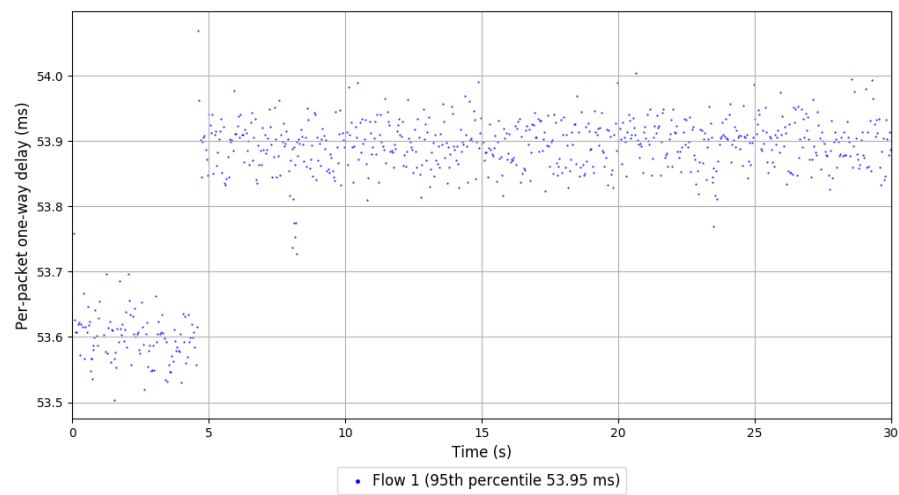
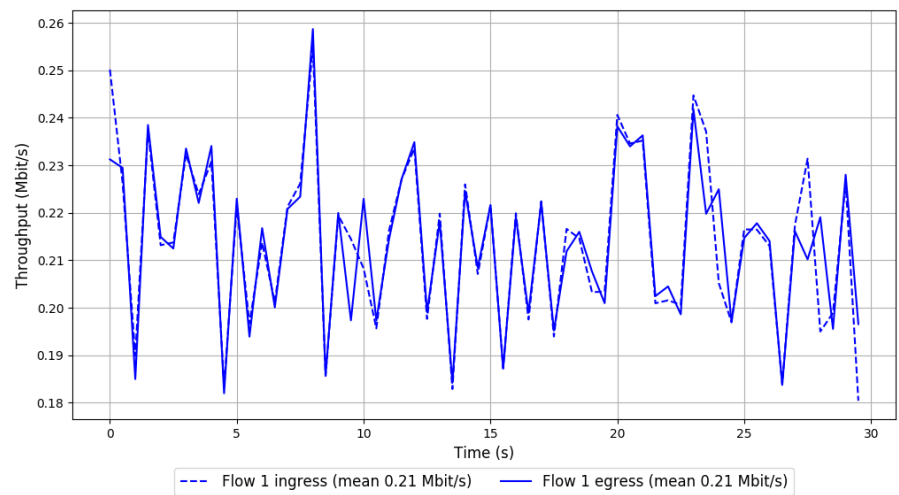


```
Run 1: Statistics of SCReAM

Start at: 2018-01-30 20:07:00
End at: 2018-01-30 20:07:30

# Below is generated by plot.py at 2018-01-30 23:59:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.948 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-01-30 20:20:45

End at: 2018-01-30 20:21:15

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.982 ms

Loss rate: 0.00%

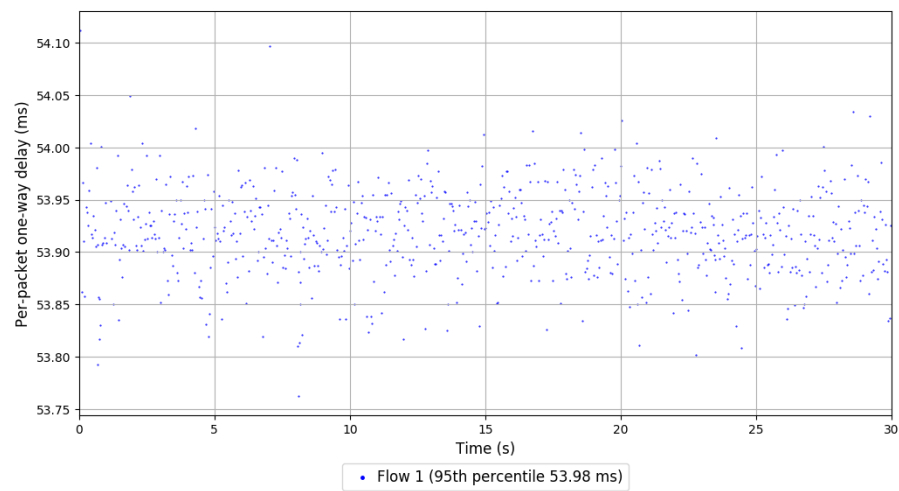
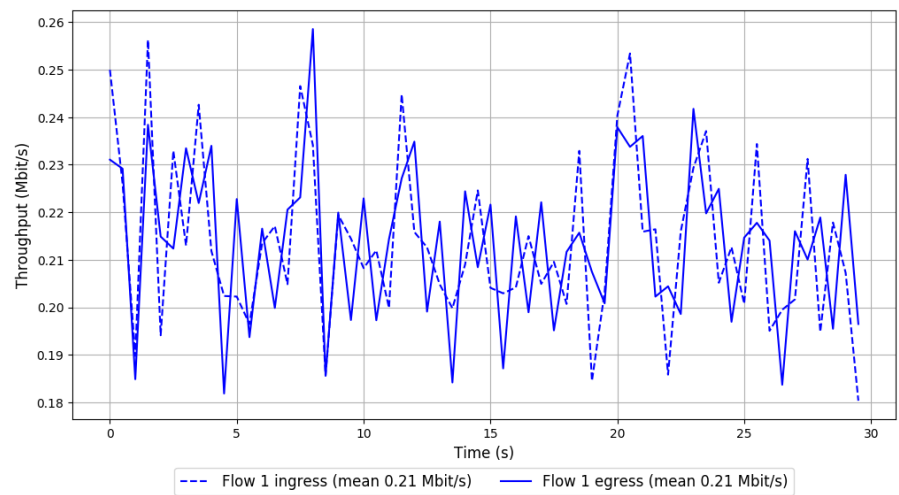
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.982 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-30 20:34:14

End at: 2018-01-30 20:34:44

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.937 ms

Loss rate: 0.00%

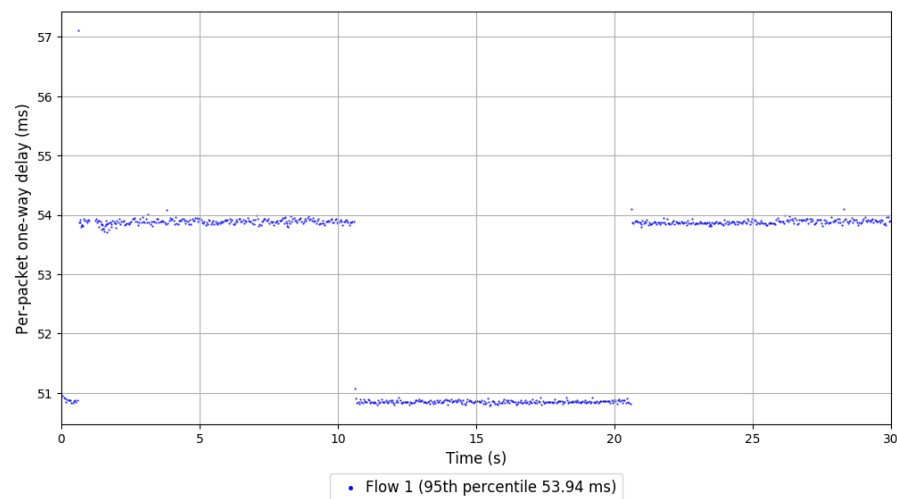
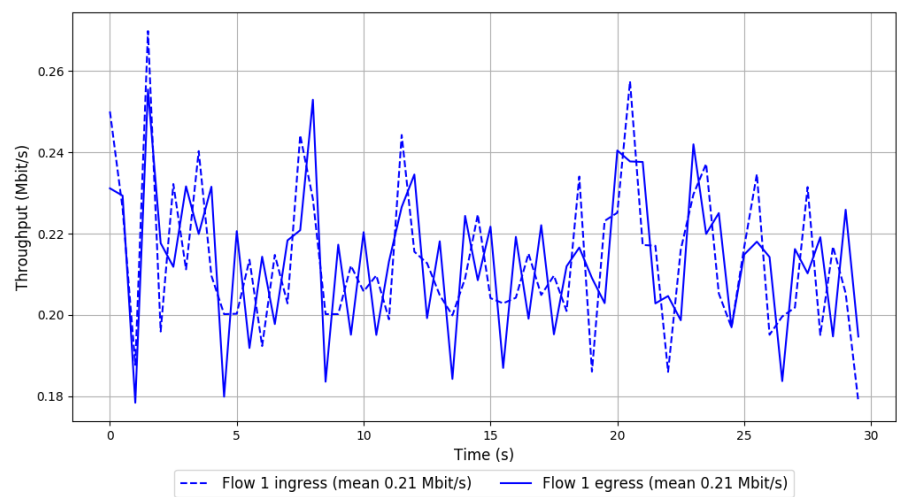
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.937 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-30 20:47:59

End at: 2018-01-30 20:48:29

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.036 ms

Loss rate: 0.00%

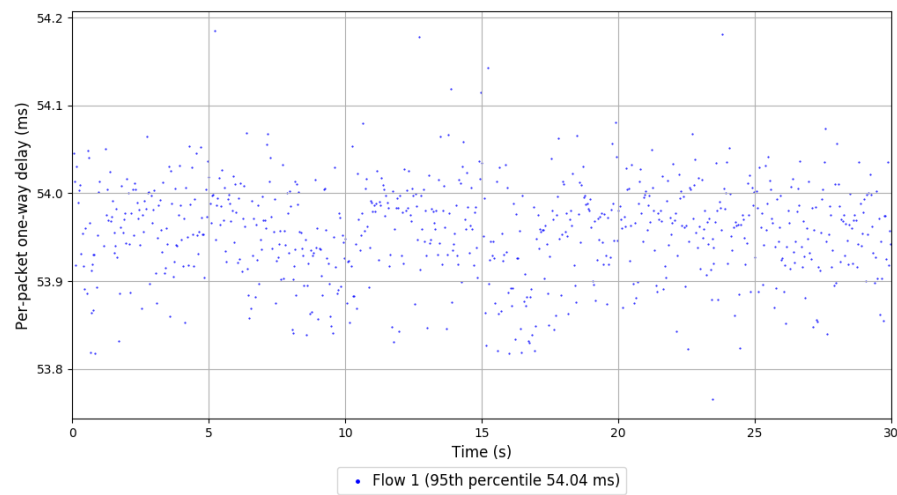
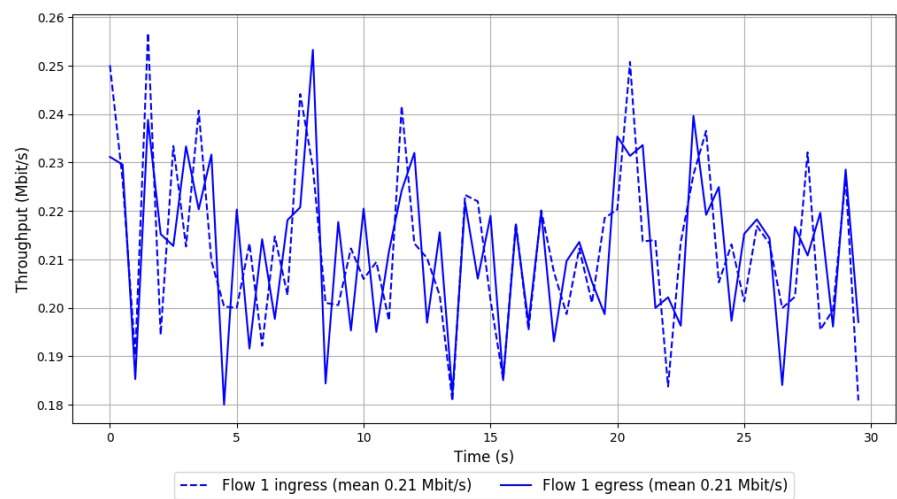
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.036 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-30 21:01:51

End at: 2018-01-30 21:02:22

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.015 ms

Loss rate: 0.00%

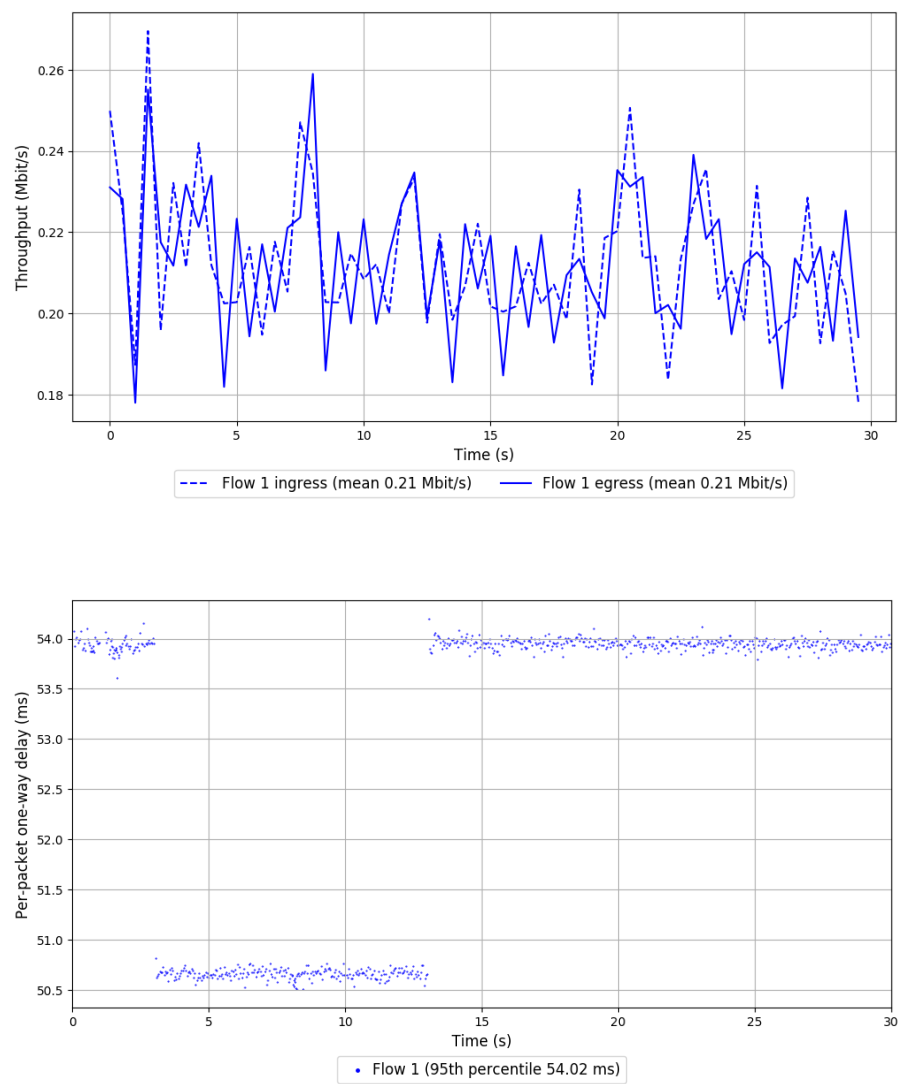
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.015 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-30 21:15:35

End at: 2018-01-30 21:16:05

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.243 ms

Loss rate: 0.00%

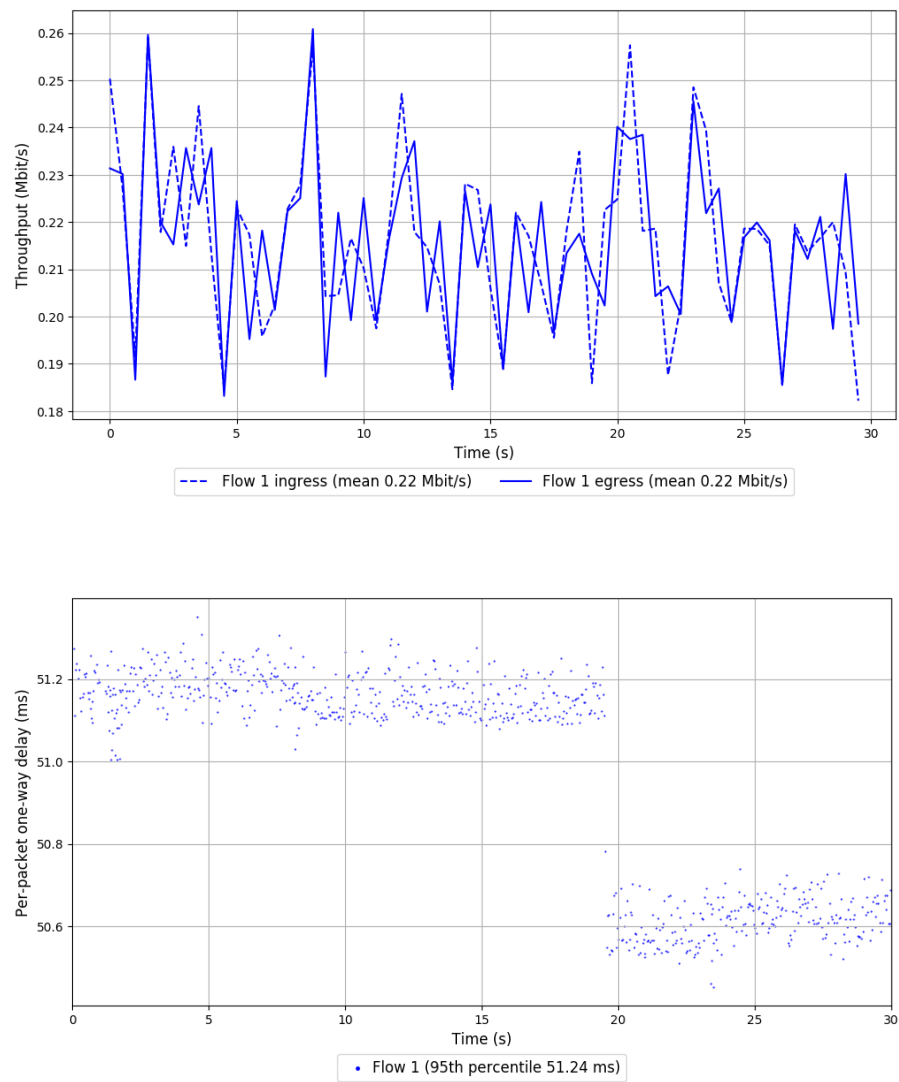
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.243 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-30 21:29:43

End at: 2018-01-30 21:30:13

Below is generated by plot.py at 2018-01-30 23:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.888 ms

Loss rate: 0.00%

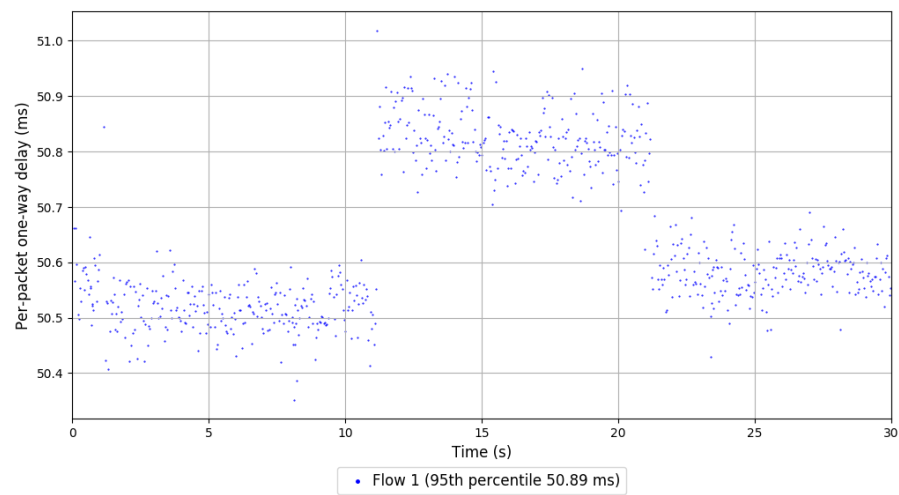
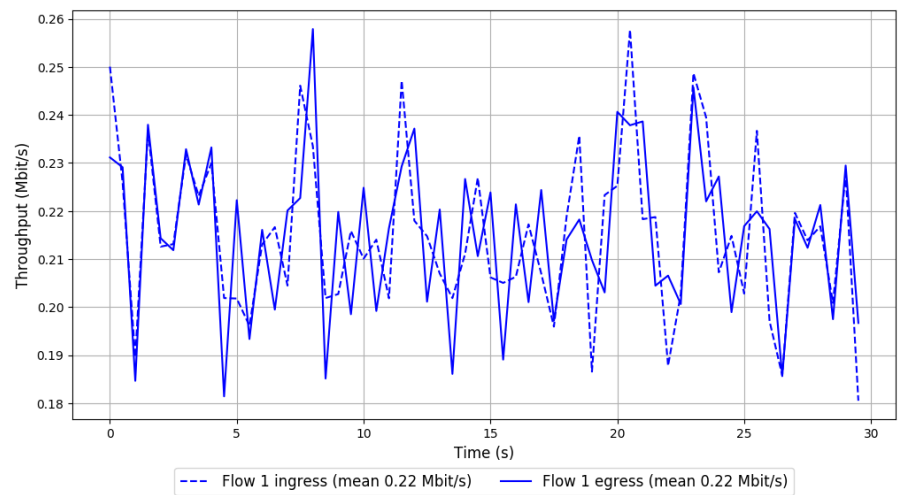
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.888 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

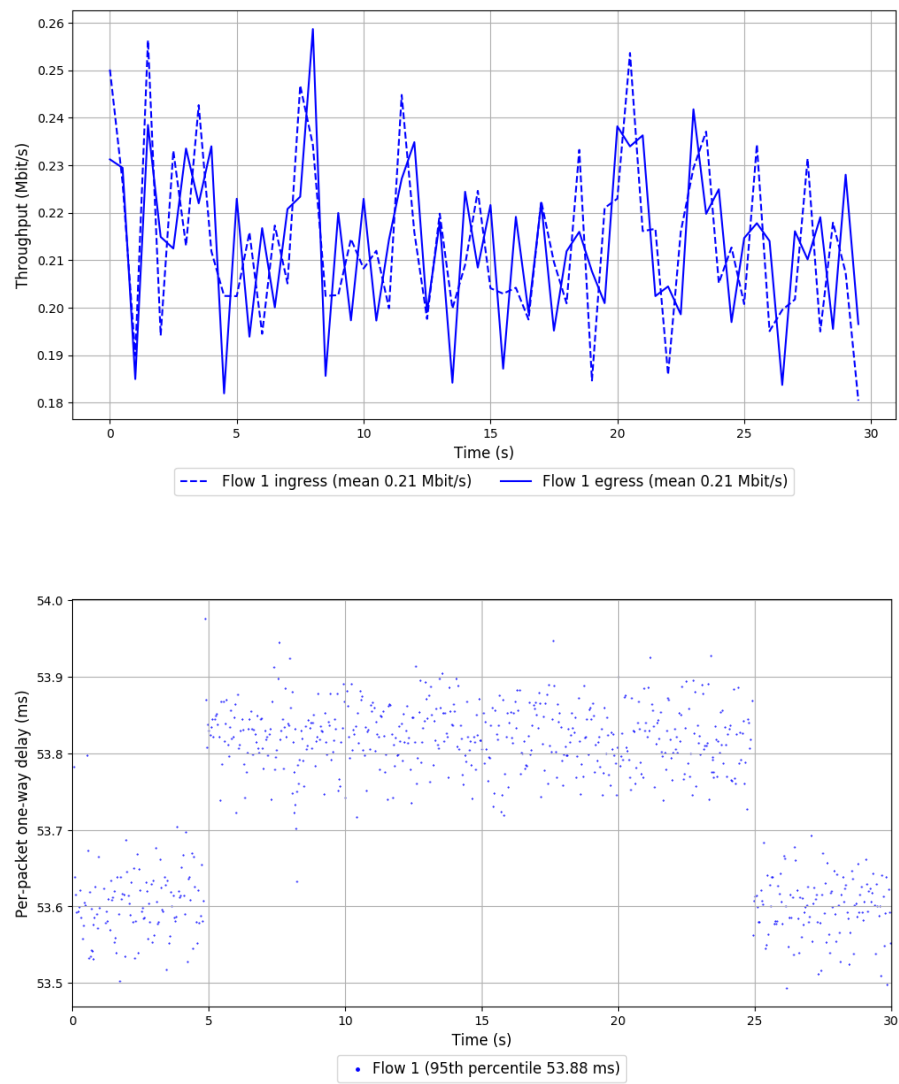


```
Run 8: Statistics of SCReAM

Start at: 2018-01-30 21:43:30
End at: 2018-01-30 21:44:00

# Below is generated by plot.py at 2018-01-31 00:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.880 ms
Loss rate: 0.00%
```

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-30 21:57:16

End at: 2018-01-30 21:57:46

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

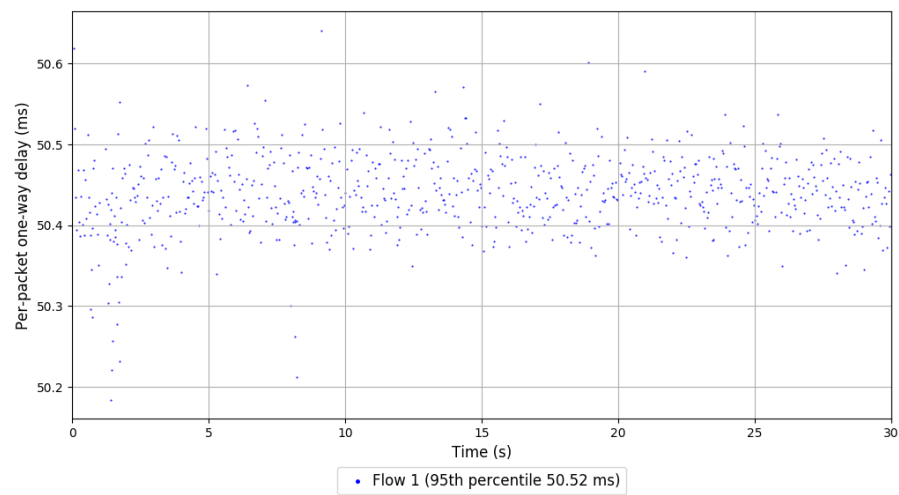
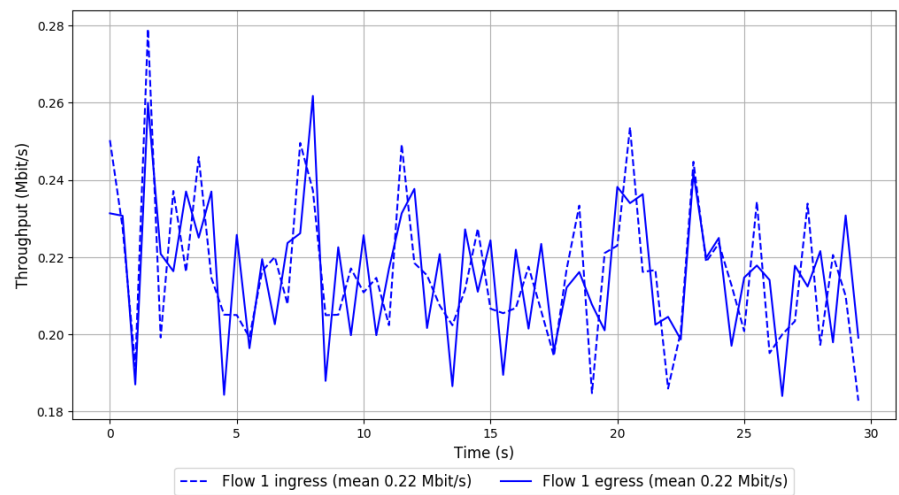
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

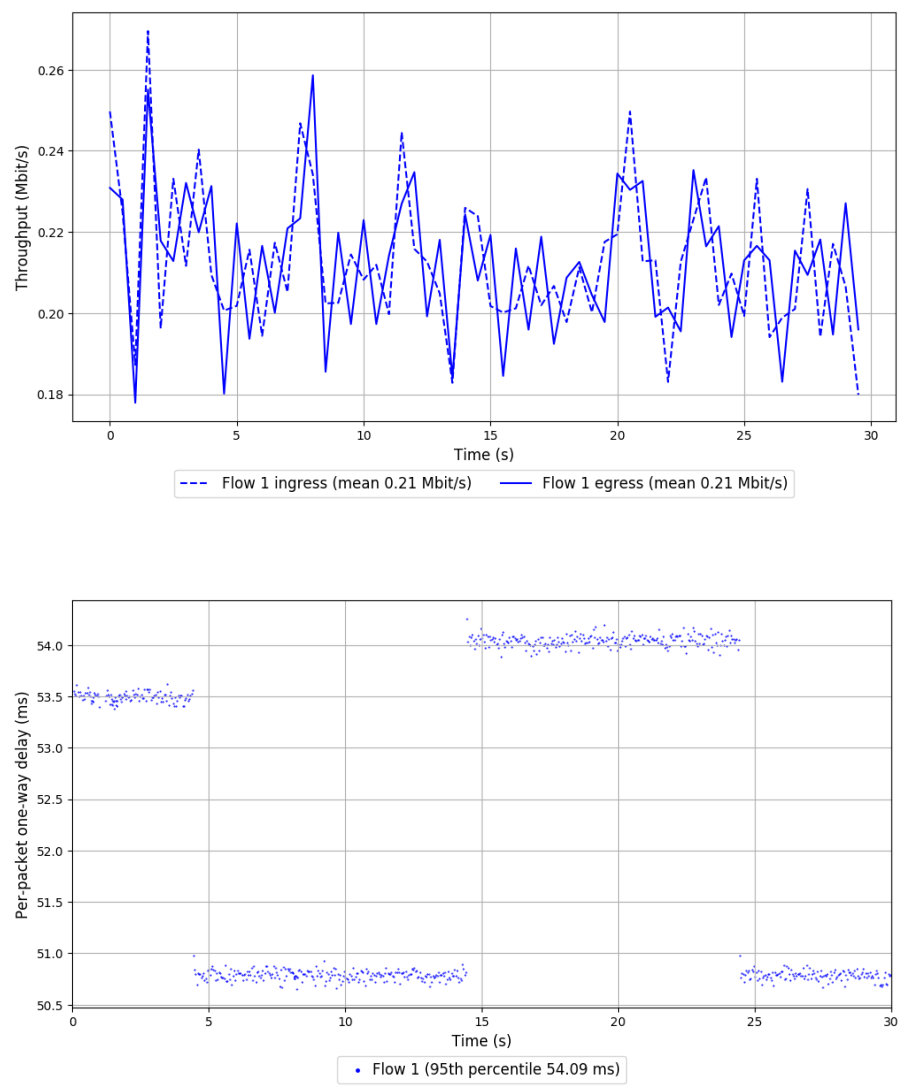


```
Run 10: Statistics of SReAM

Start at: 2018-01-30 22:11:10
End at: 2018-01-30 22:11:40

# Below is generated by plot.py at 2018-01-31 00:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.094 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.094 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

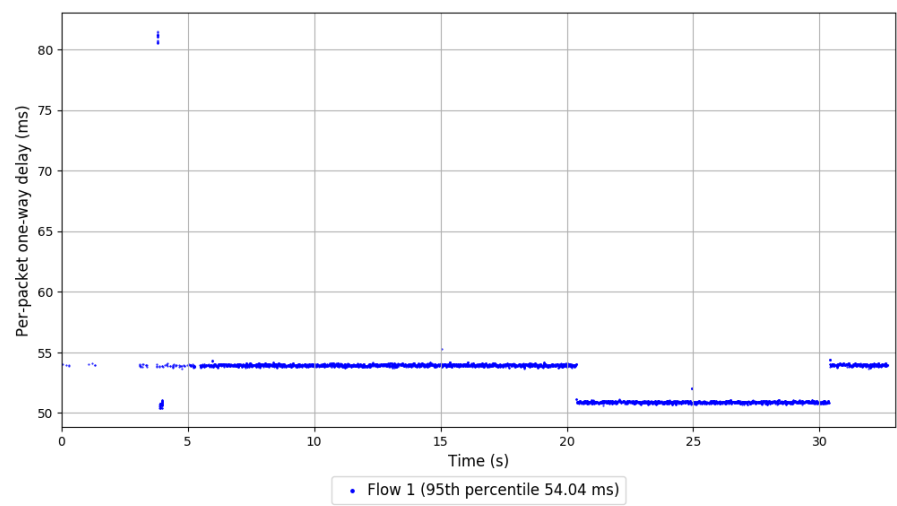
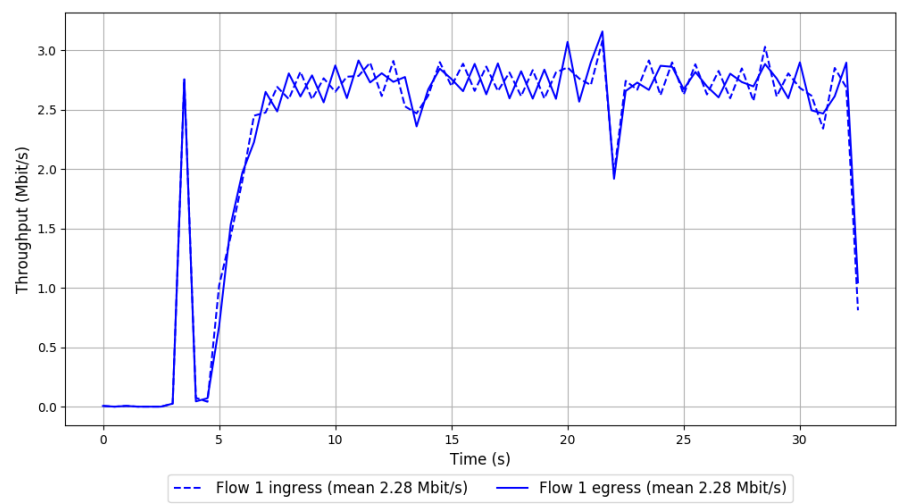


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-30 20:12:07
End at: 2018-01-30 20:12:37

# Below is generated by plot.py at 2018-01-31 00:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 54.040 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

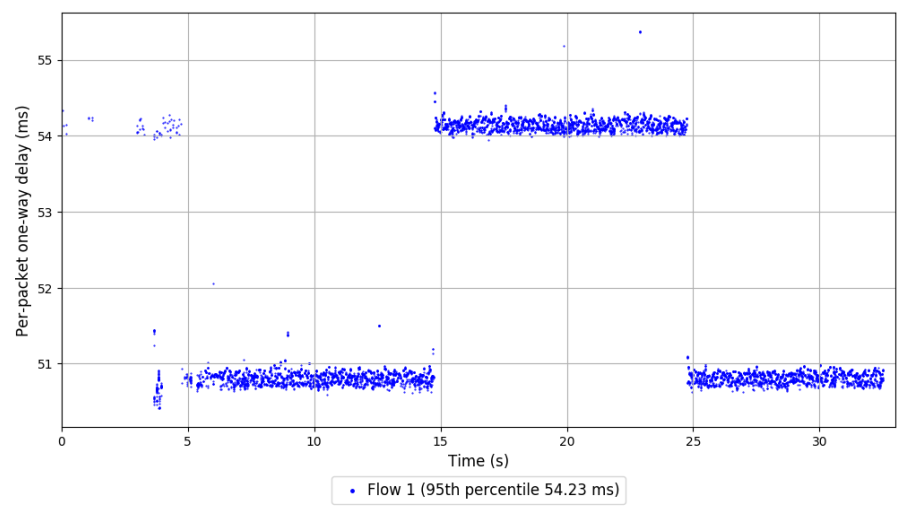
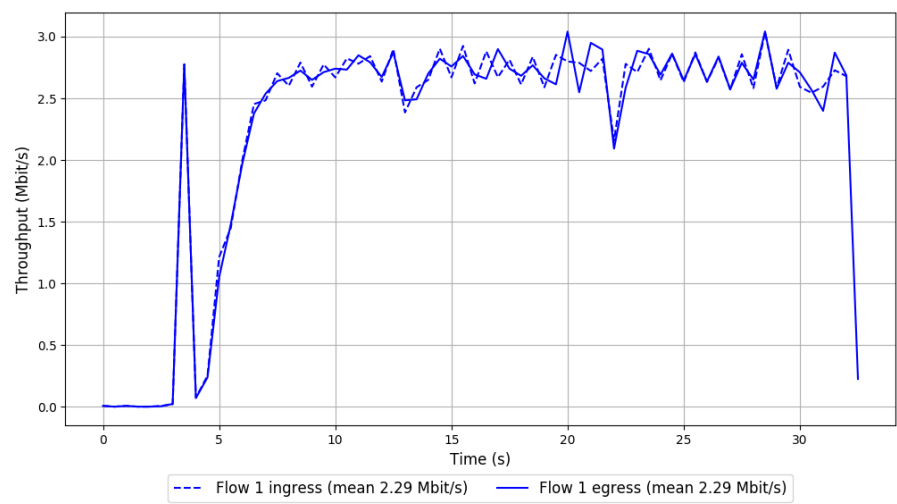


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-30 20:25:42
End at: 2018-01-30 20:26:12

# Below is generated by plot.py at 2018-01-31 00:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 54.228 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 54.228 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-30 20:39:18

End at: 2018-01-30 20:39:48

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

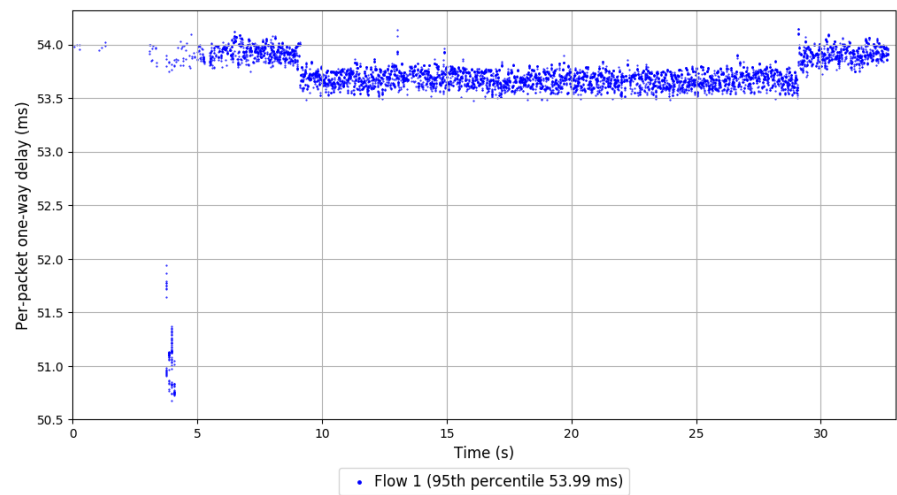
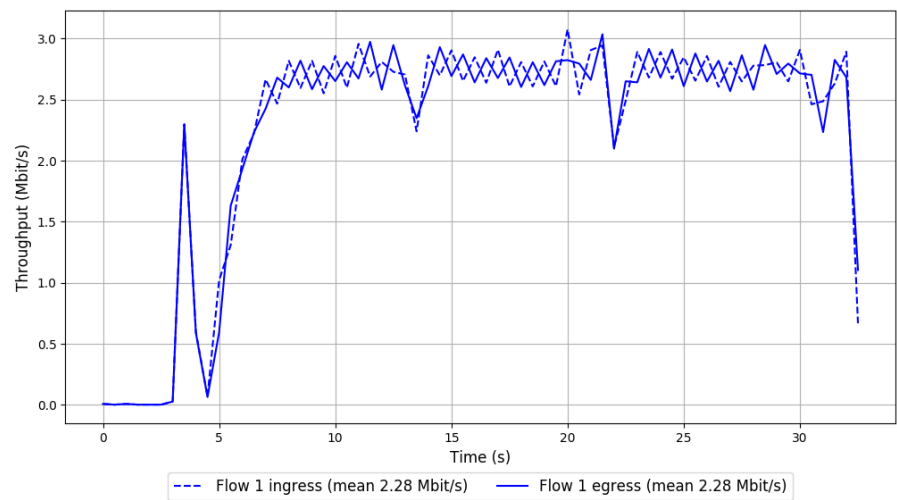
-- Flow 1:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-30 20:53:05

End at: 2018-01-30 20:53:35

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.646 ms

Loss rate: 0.00%

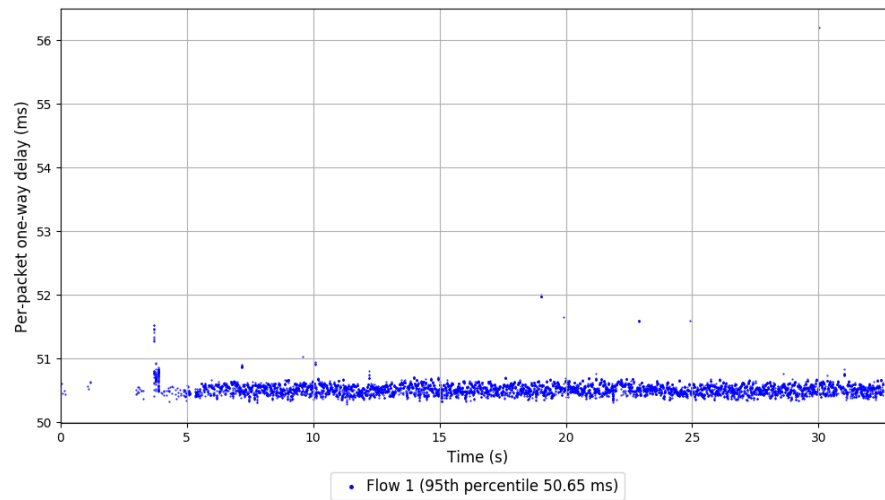
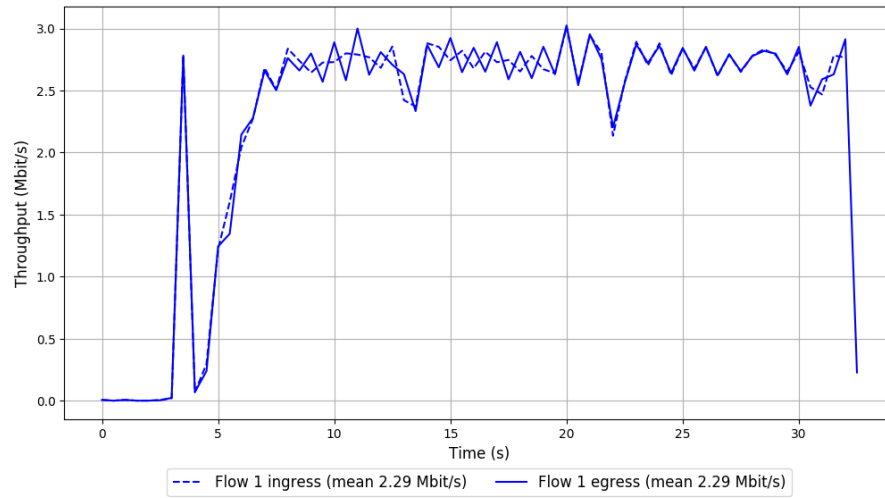
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.646 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-30 21:06:53

End at: 2018-01-30 21:07:23

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 54.305 ms

Loss rate: 0.00%

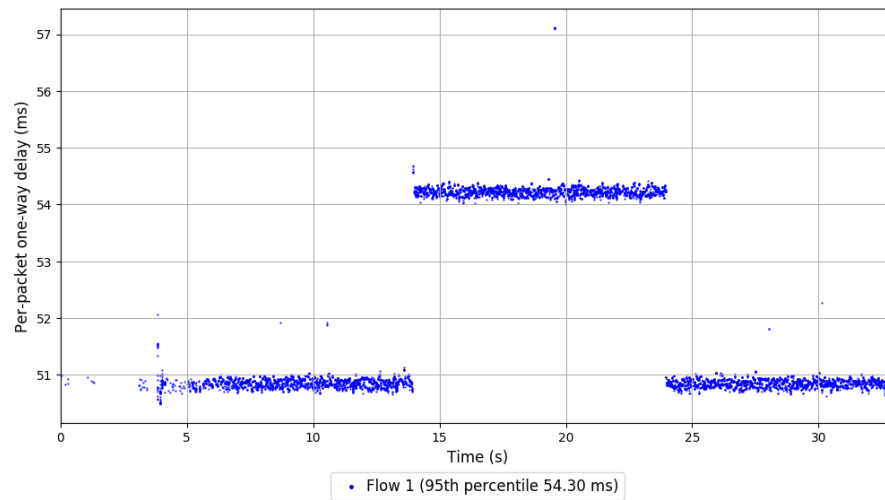
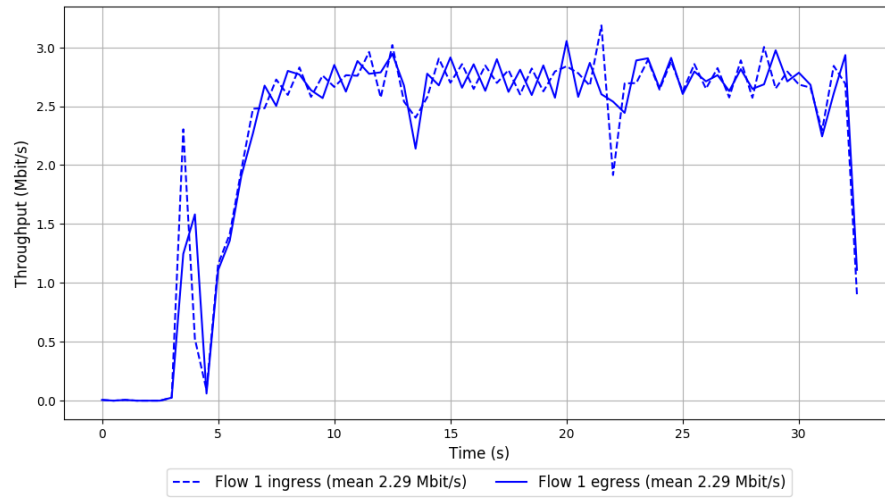
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 54.305 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-30 21:20:39

End at: 2018-01-30 21:21:09

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 51.263 ms

Loss rate: 0.00%

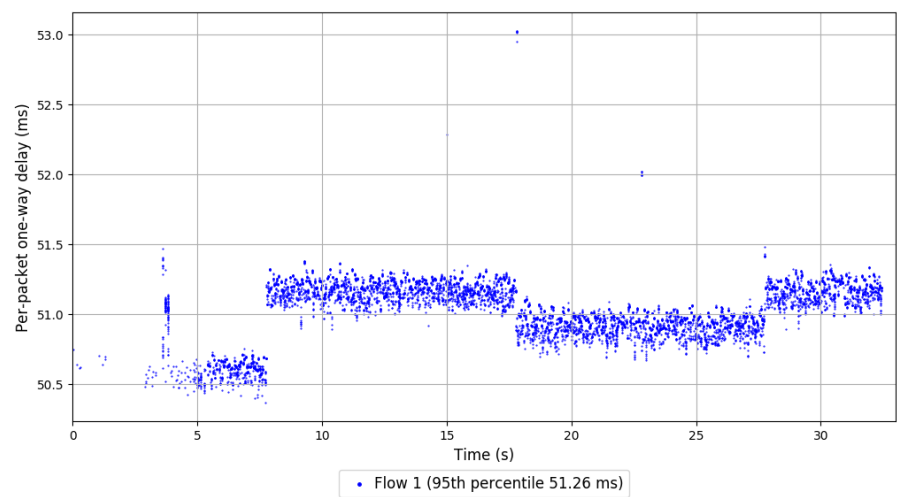
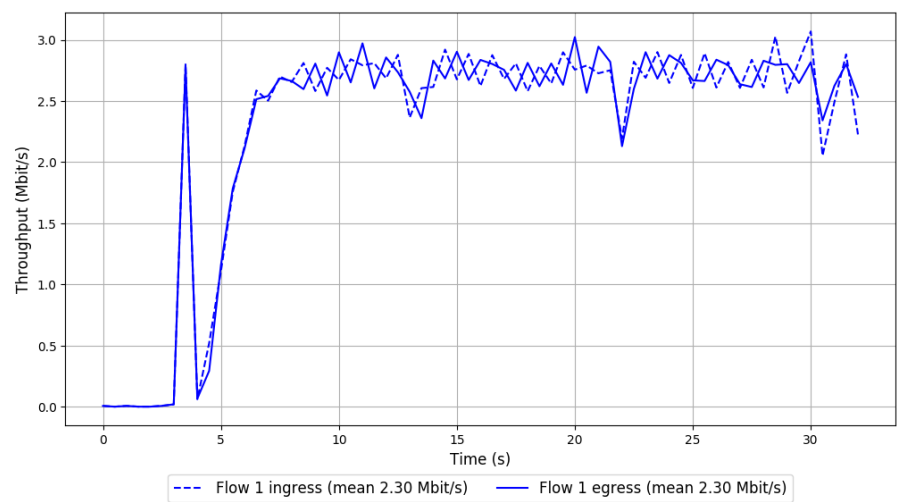
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 51.263 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-30 21:34:47

End at: 2018-01-30 21:35:17

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.954 ms

Loss rate: 0.00%

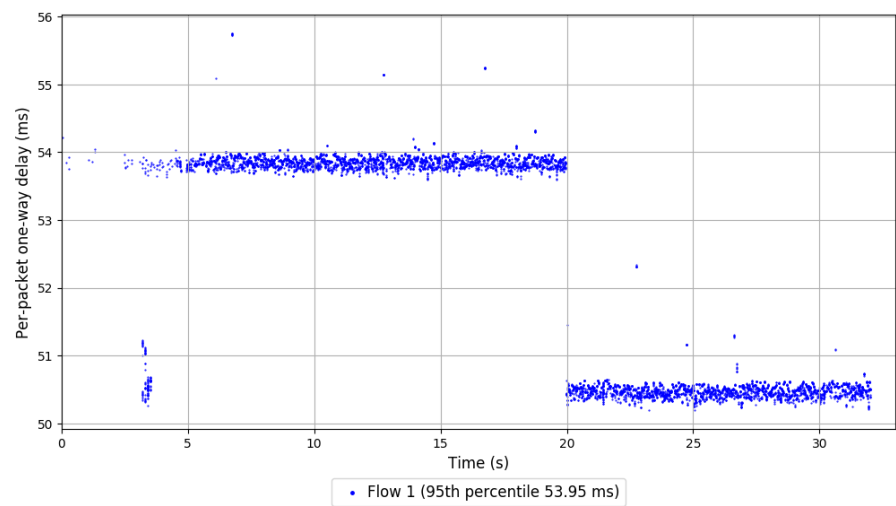
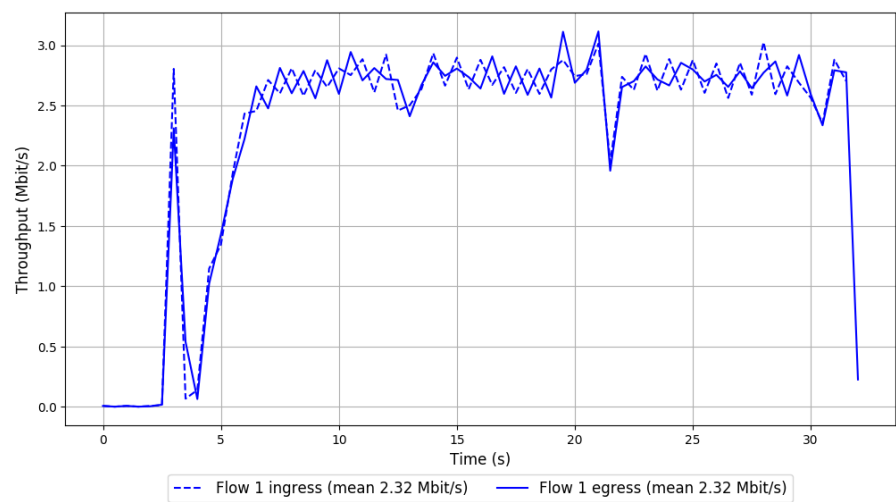
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.954 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-30 21:48:35

End at: 2018-01-30 21:49:05

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.00%

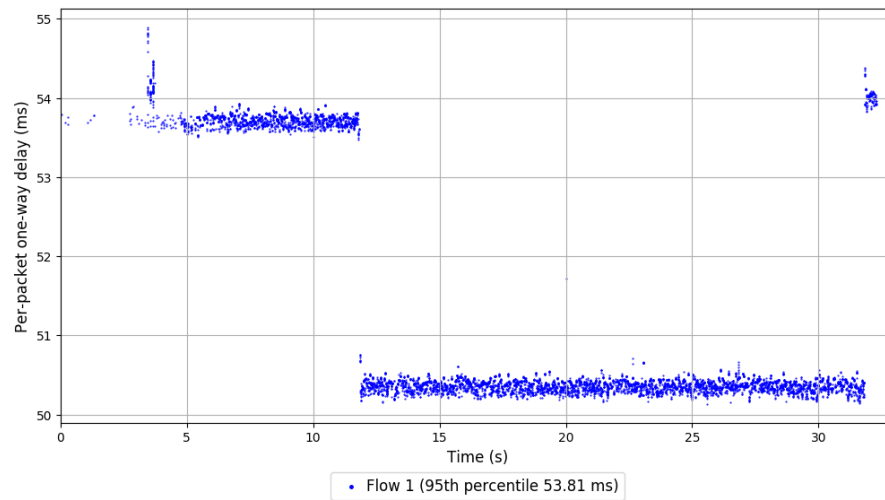
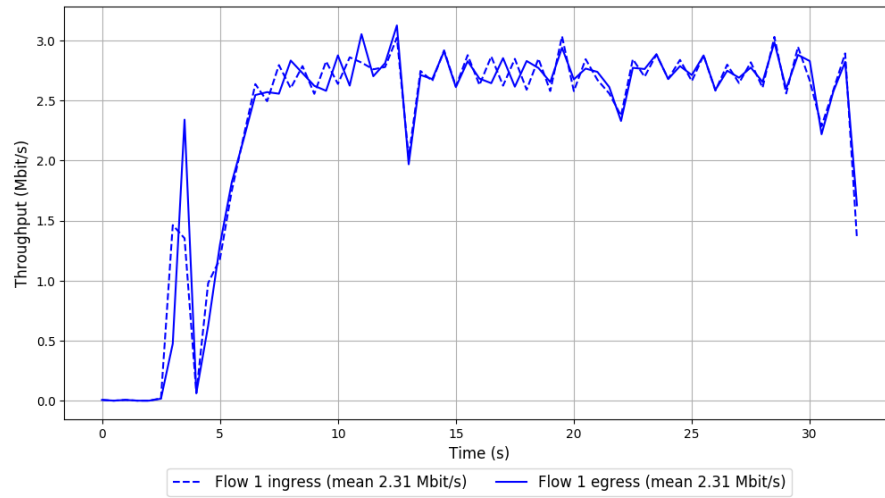
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-30 22:02:20

End at: 2018-01-30 22:02:50

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

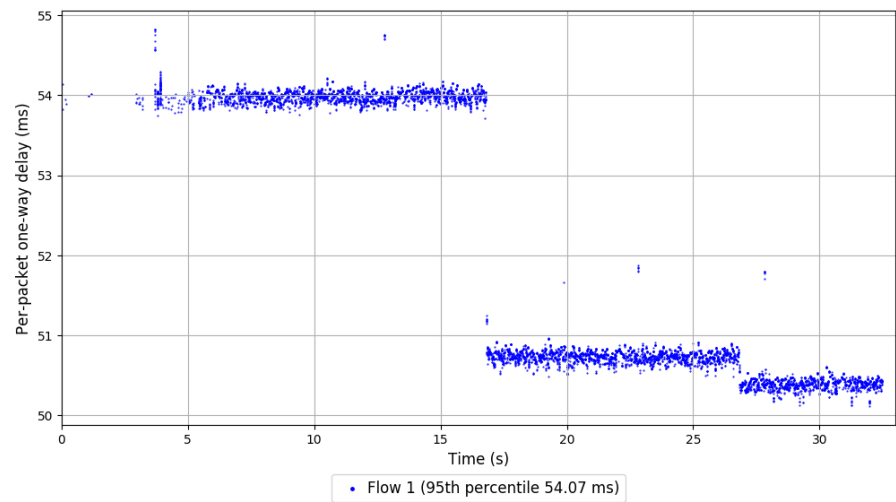
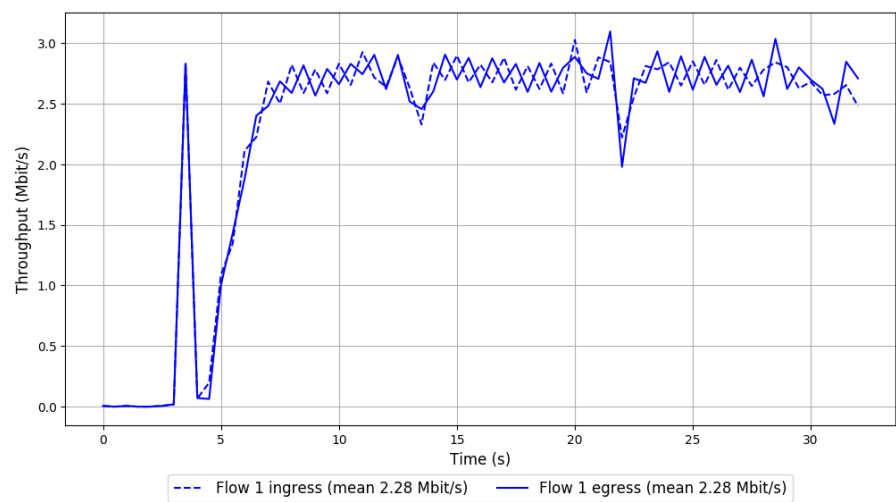
-- Flow 1:

Average throughput: 2.28 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-30 22:16:19

End at: 2018-01-30 22:16:49

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.679 ms

Loss rate: 0.00%

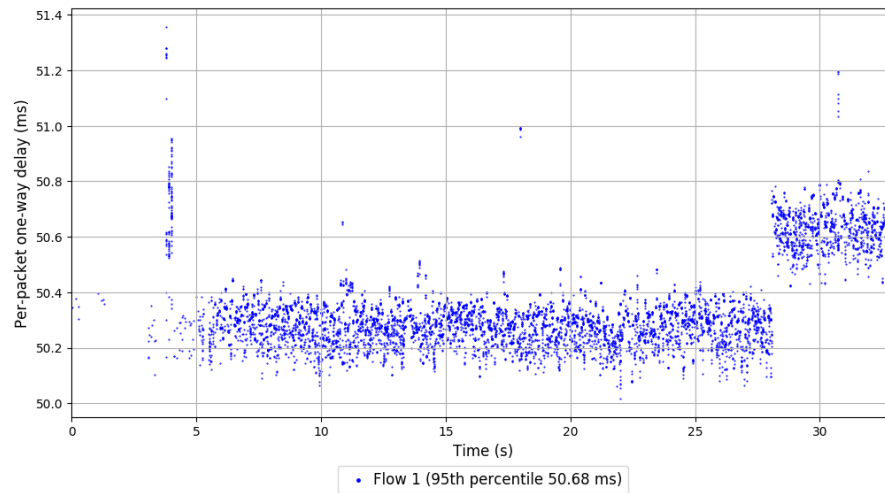
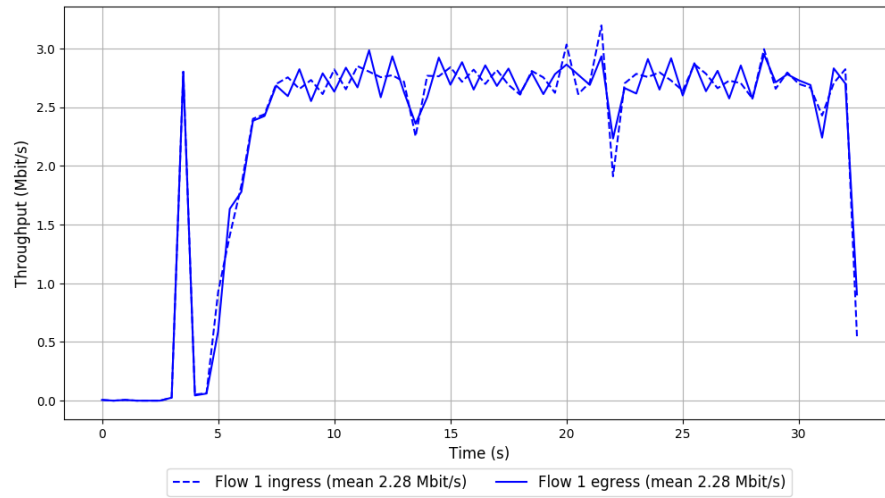
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.679 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-30 20:10:45

End at: 2018-01-30 20:11:15

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.807 ms

Loss rate: 0.00%

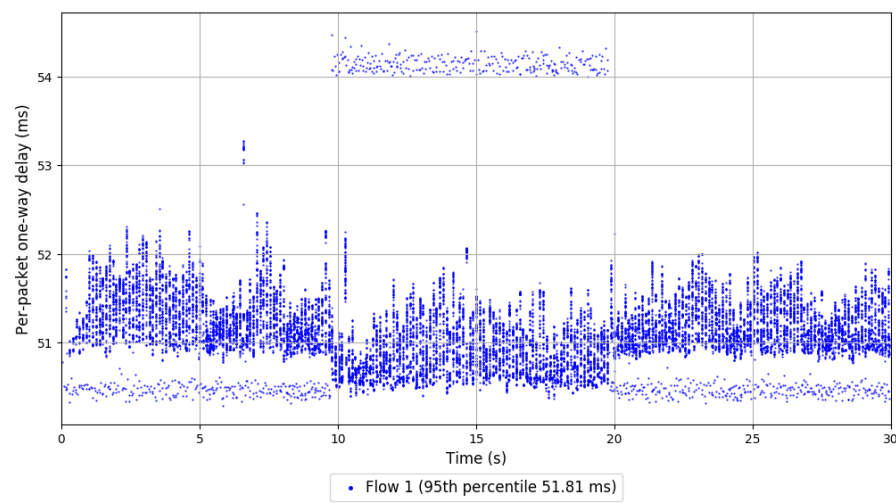
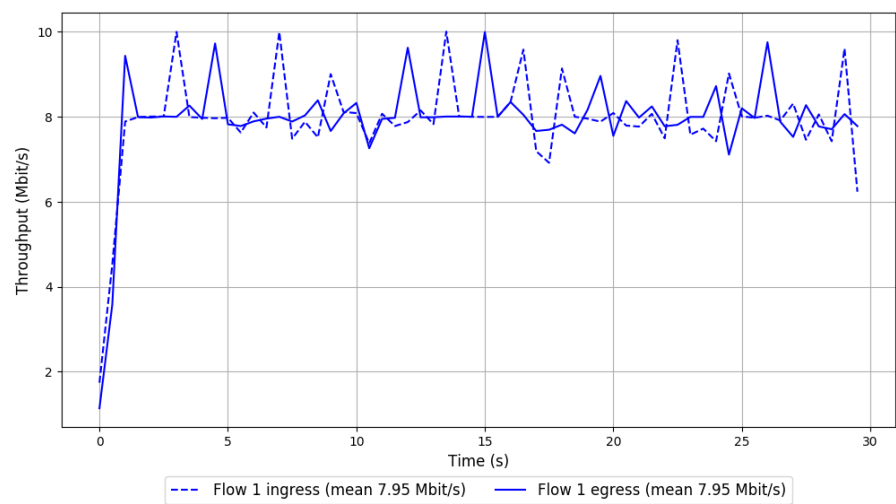
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.807 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-30 20:24:21

End at: 2018-01-30 20:24:51

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.673 ms

Loss rate: 0.00%

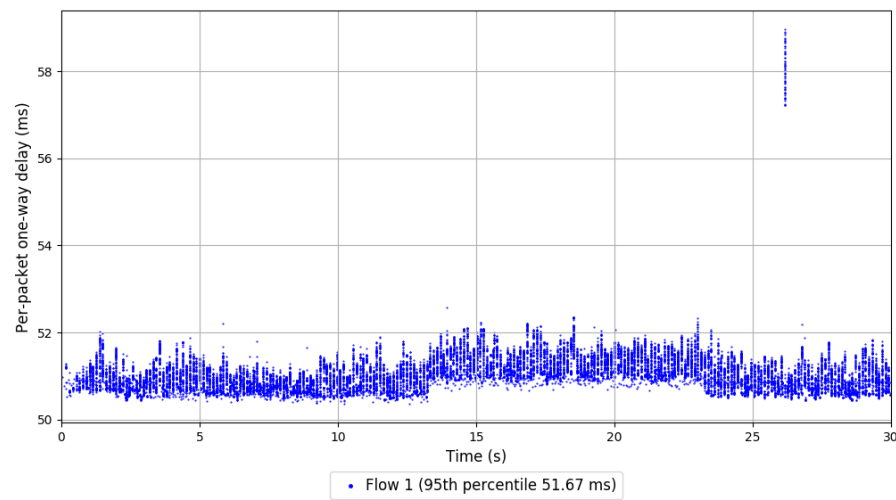
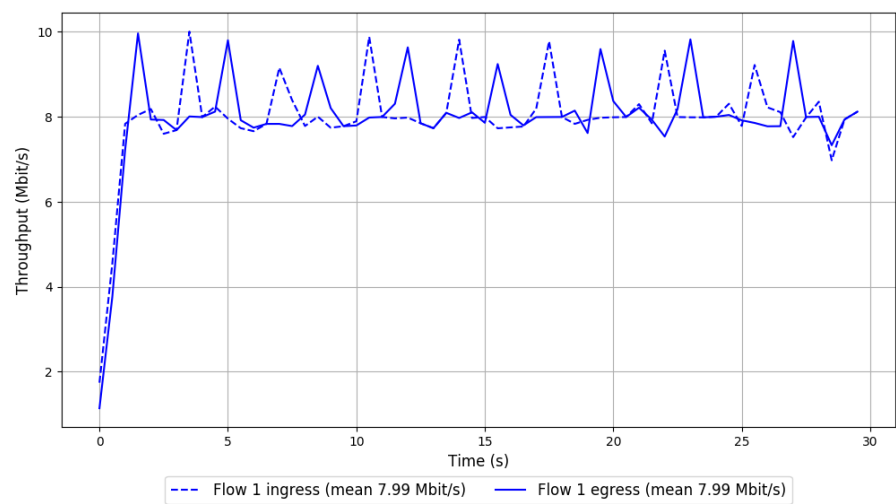
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.673 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-30 20:37:55

End at: 2018-01-30 20:38:25

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.641 ms

Loss rate: 0.01%

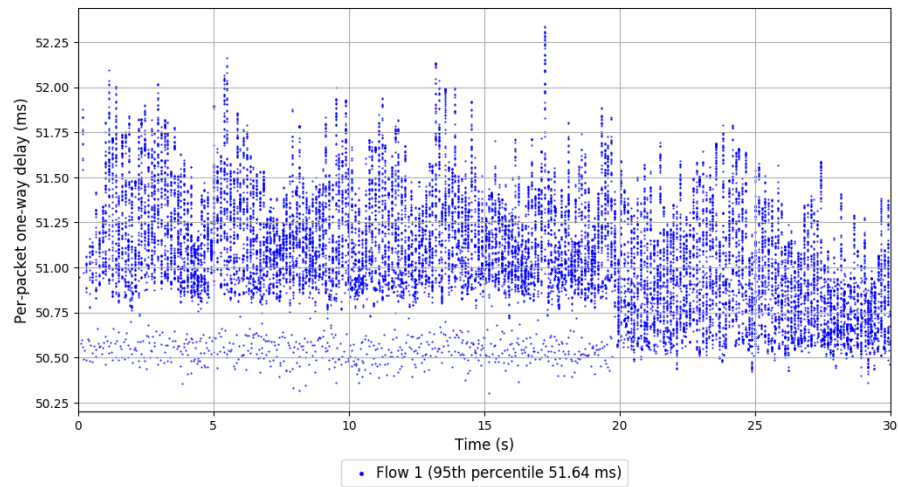
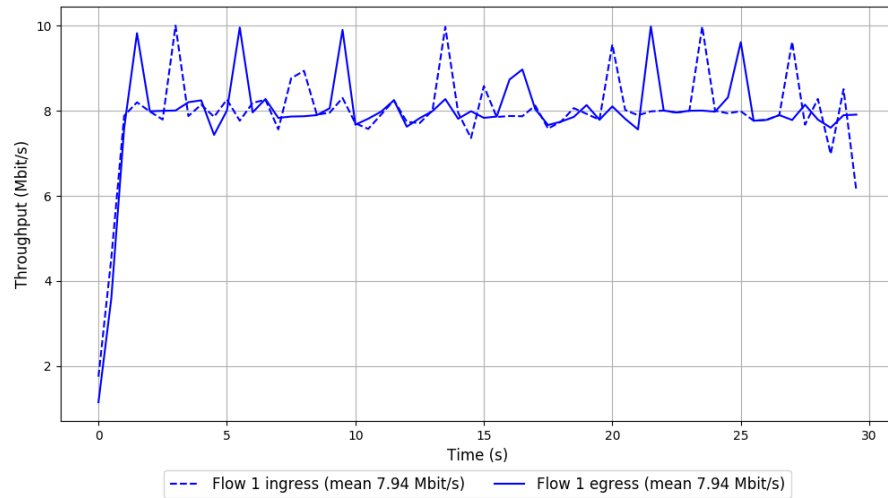
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.641 ms

Loss rate: 0.01%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-30 20:51:42

End at: 2018-01-30 20:52:12

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.782 ms

Loss rate: 0.02%

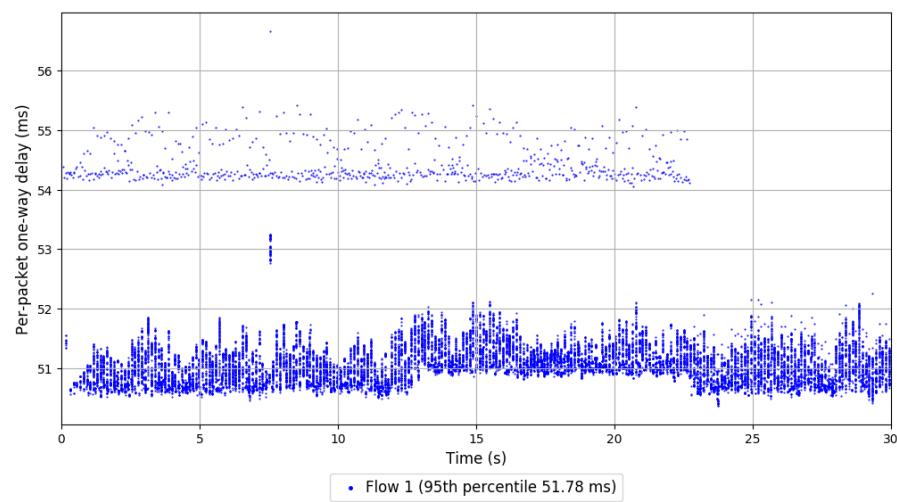
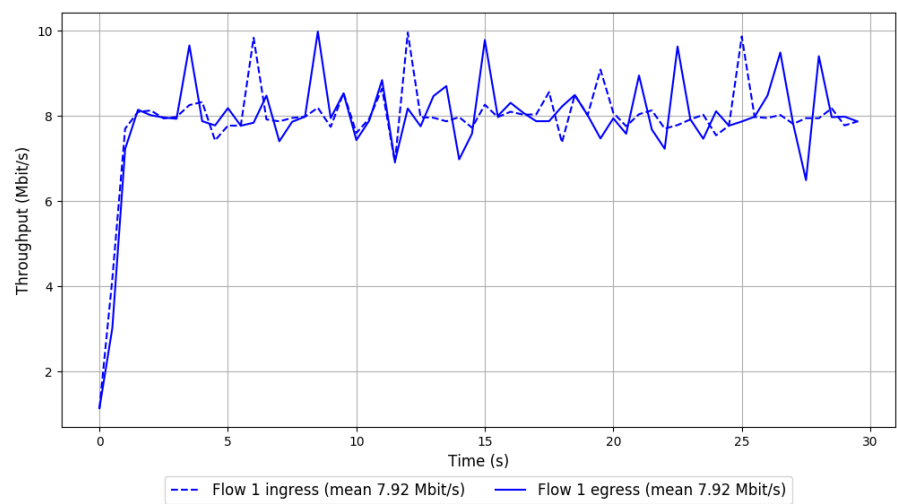
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.782 ms

Loss rate: 0.02%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-30 21:05:31

End at: 2018-01-30 21:06:01

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 54.411 ms

Loss rate: 0.00%

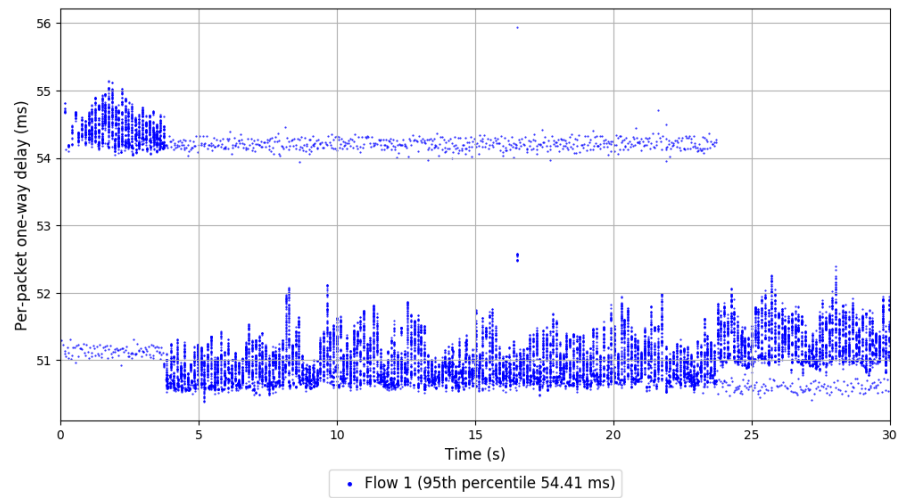
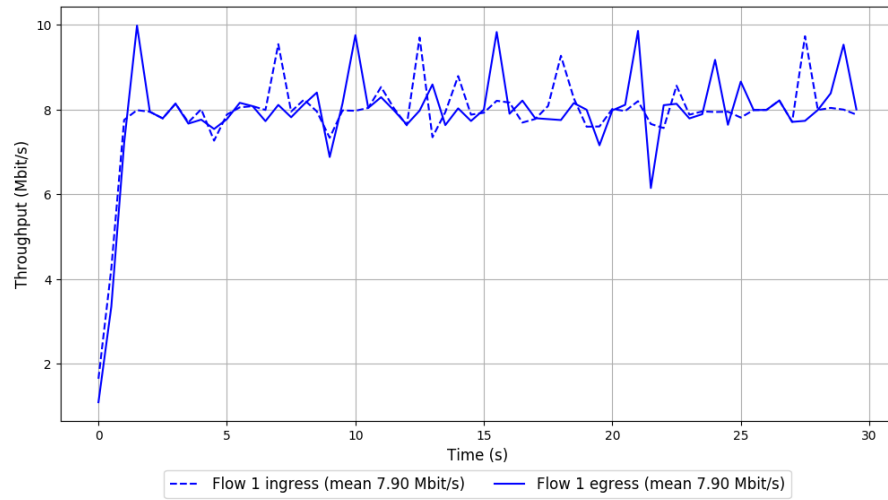
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 54.411 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-30 21:19:16

End at: 2018-01-30 21:19:46

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.514 ms

Loss rate: 0.00%

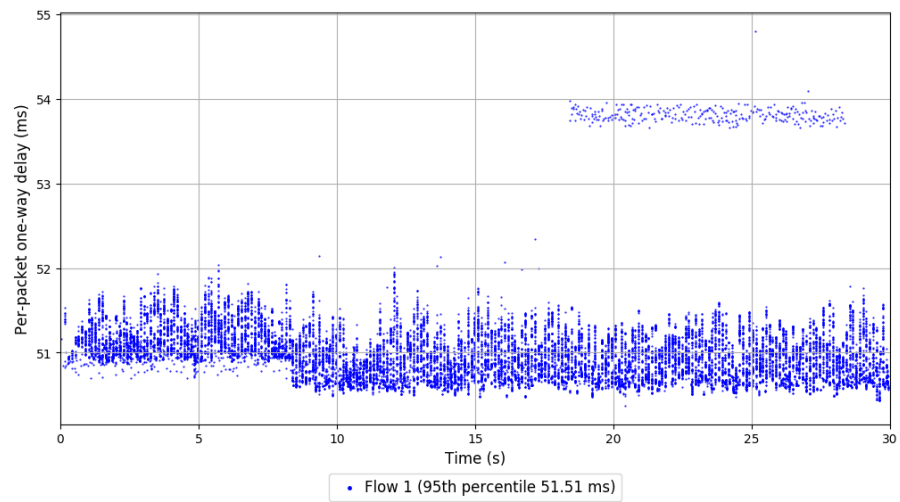
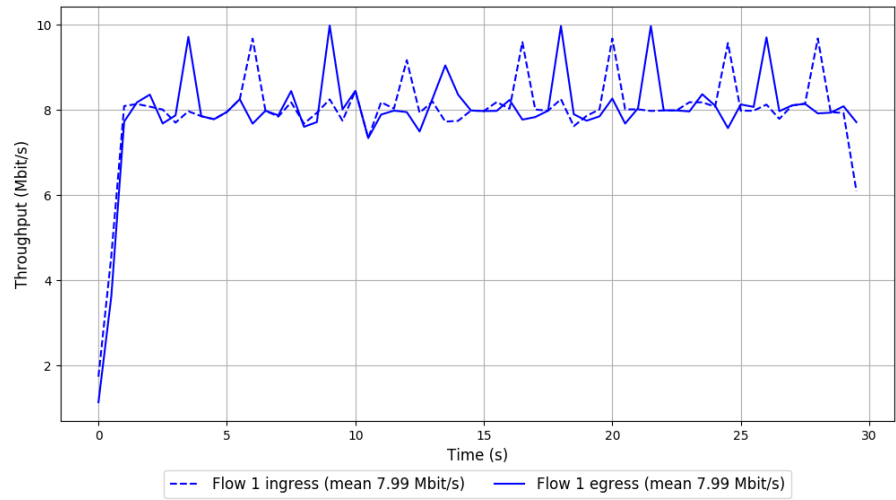
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.514 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-30 21:33:25

End at: 2018-01-30 21:33:55

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.343 ms

Loss rate: 0.04%

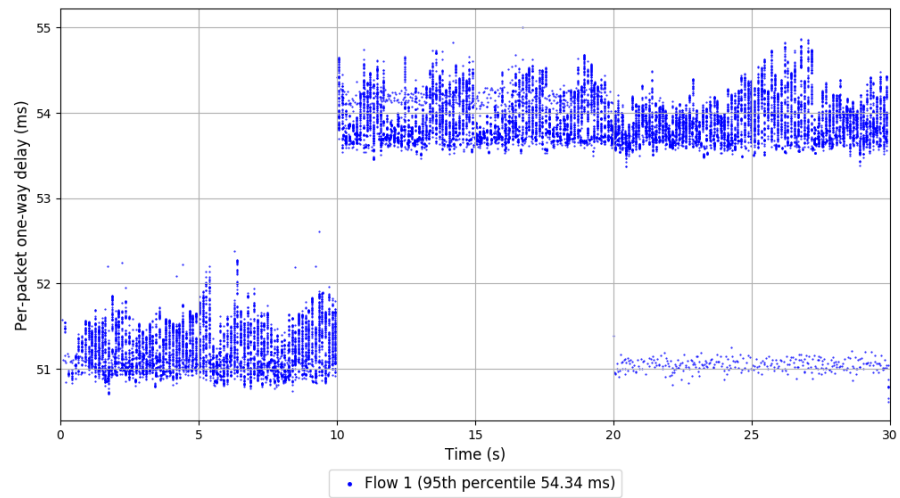
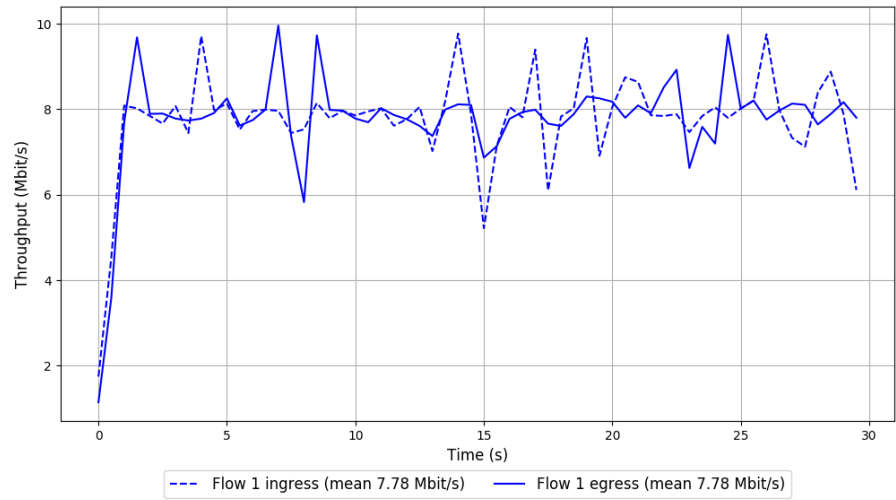
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.343 ms

Loss rate: 0.04%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-30 21:47:12

End at: 2018-01-30 21:47:42

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 54.802 ms

Loss rate: 0.03%

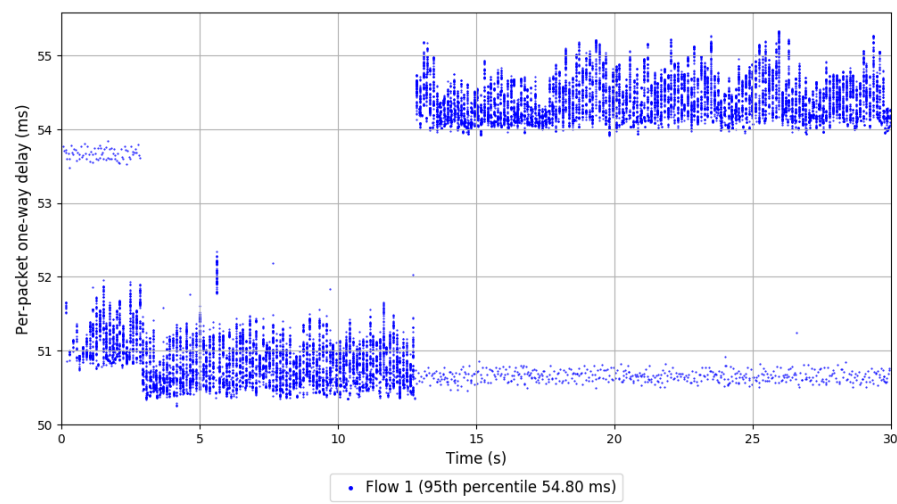
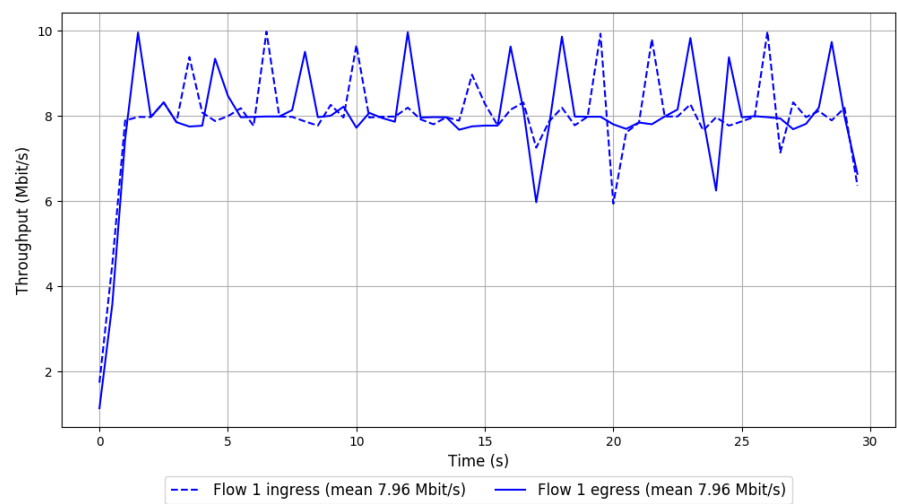
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 54.802 ms

Loss rate: 0.03%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-30 22:00:58

End at: 2018-01-30 22:01:28

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.581 ms

Loss rate: 0.00%

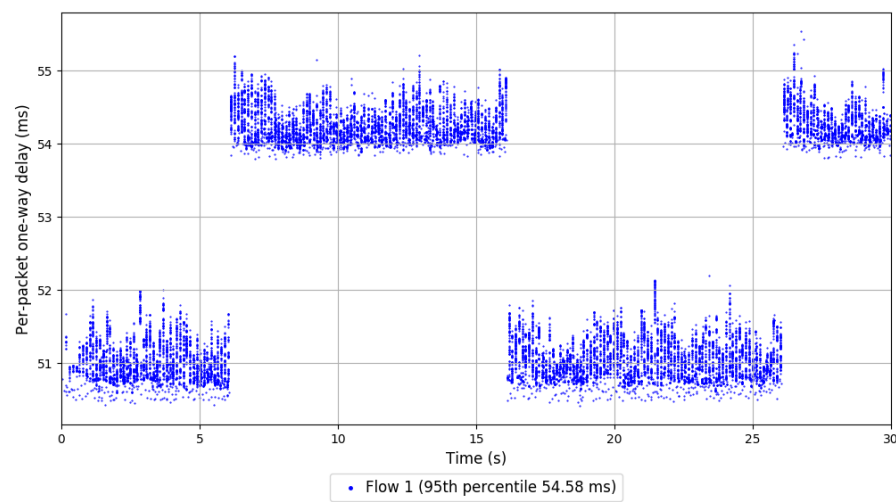
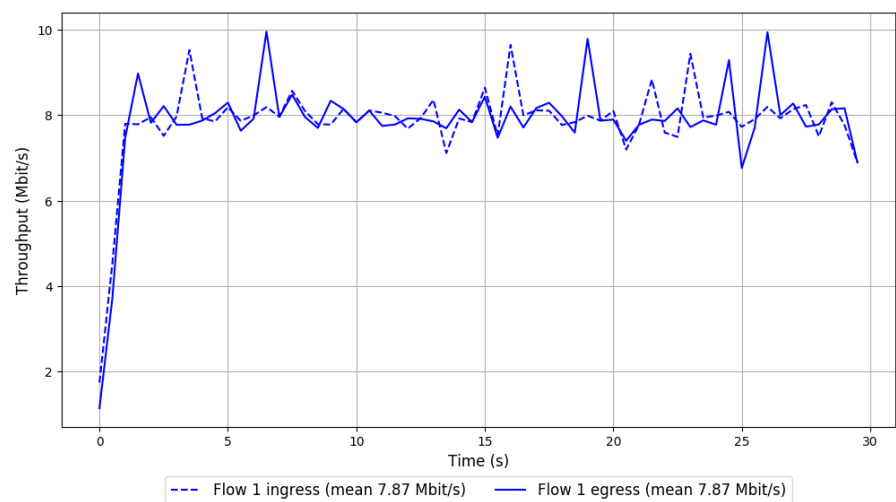
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.581 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-30 22:14:56

End at: 2018-01-30 22:15:26

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.550 ms

Loss rate: 0.05%

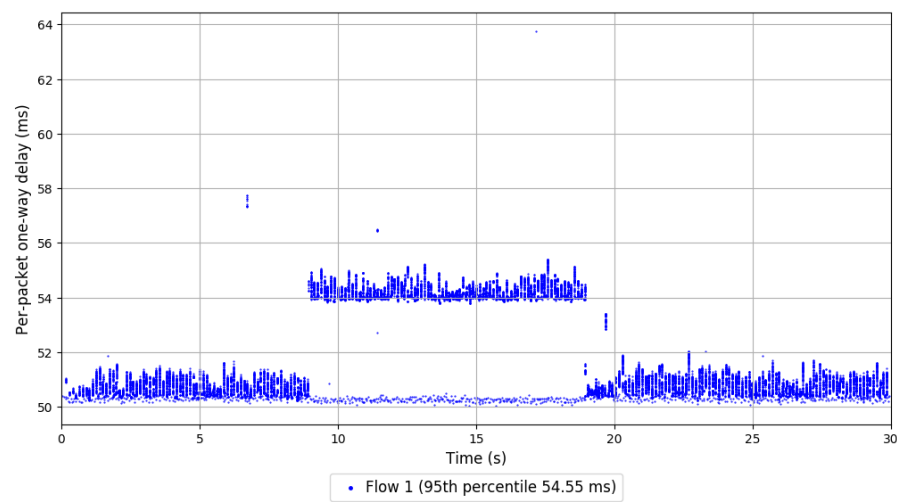
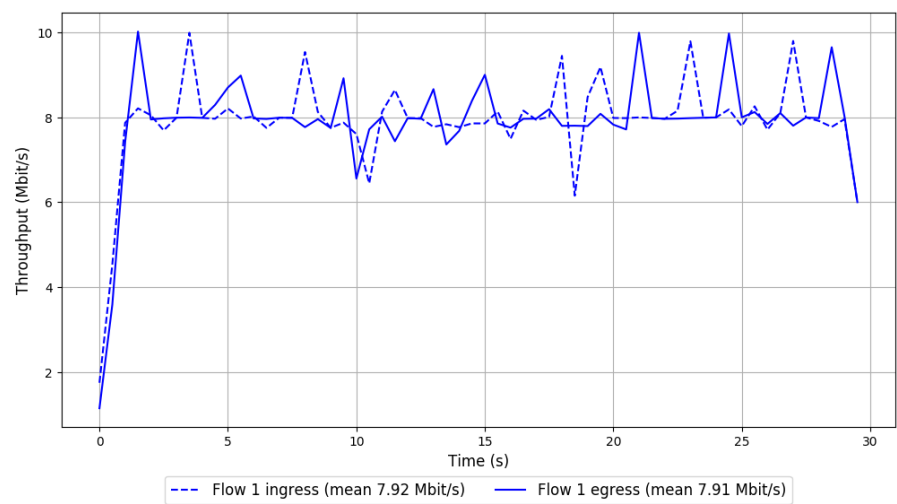
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.550 ms

Loss rate: 0.05%

Run 10: Report of Sprout — Data Link

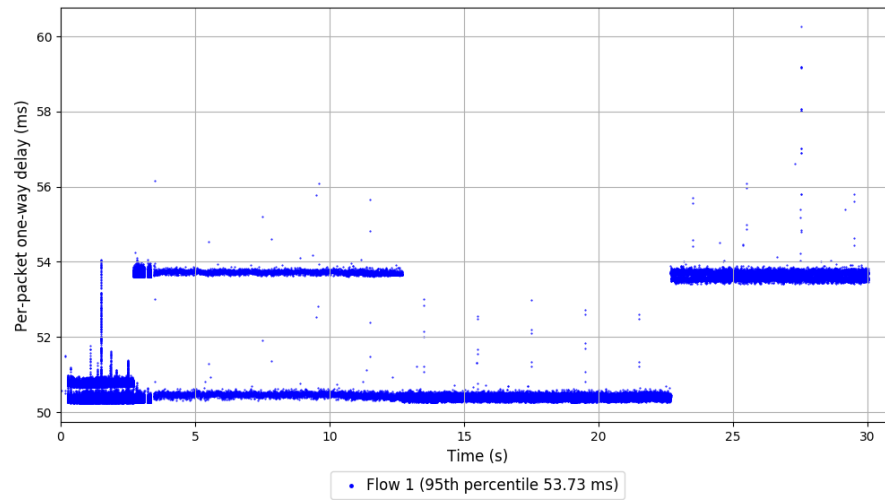
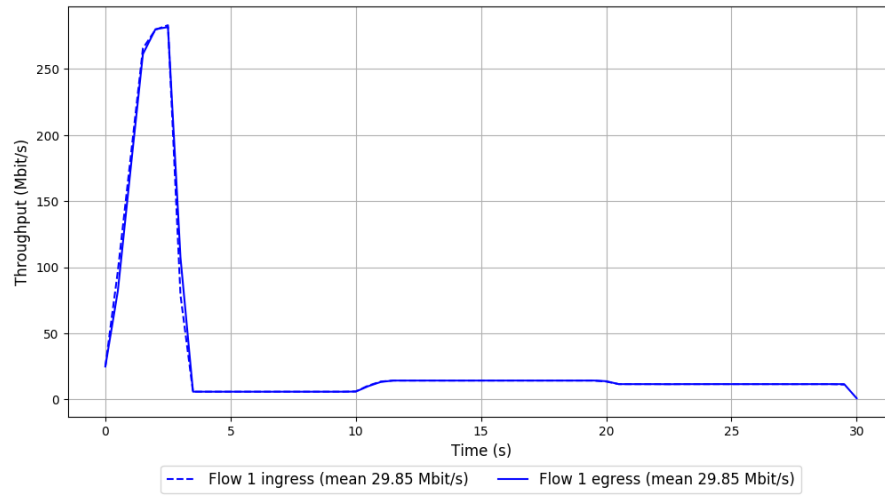


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-30 20:16:52
End at: 2018-01-30 20:17:22

# Below is generated by plot.py at 2018-01-31 00:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 29.85 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.00%
```


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

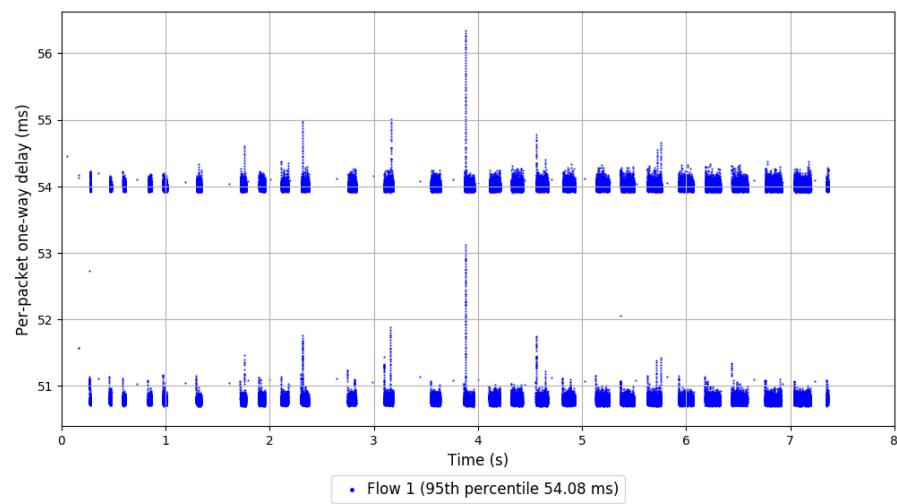
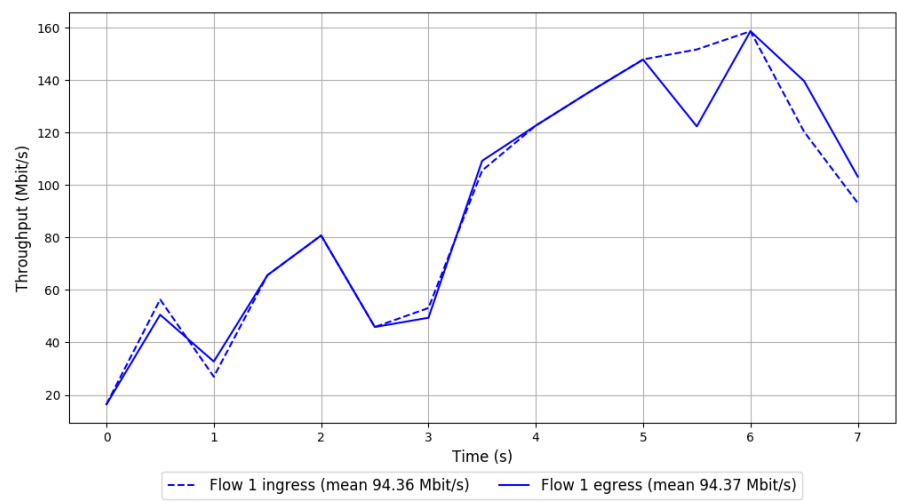


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-30 20:30:25

End at: 2018-01-30 20:30:55

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

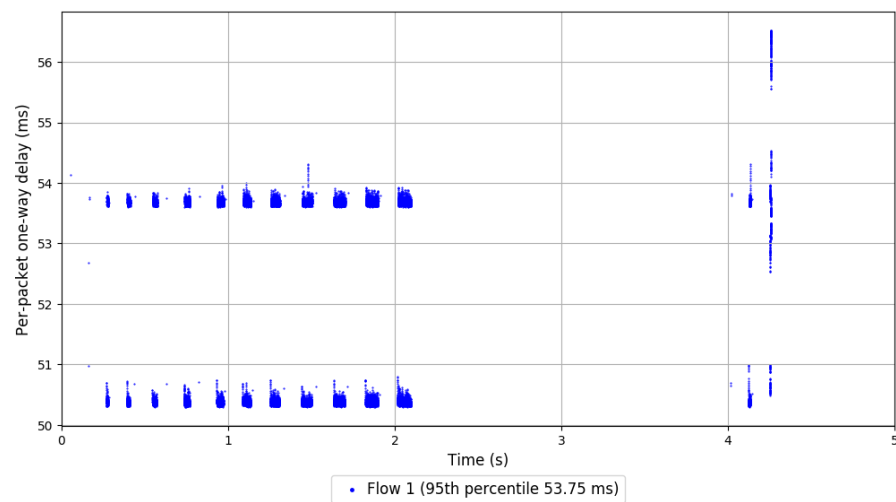
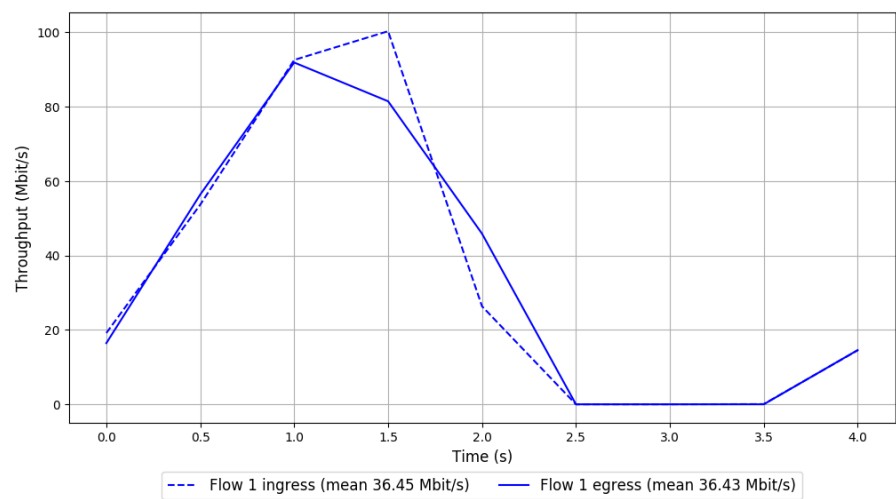


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-30 20:44:05

End at: 2018-01-30 20:44:35

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

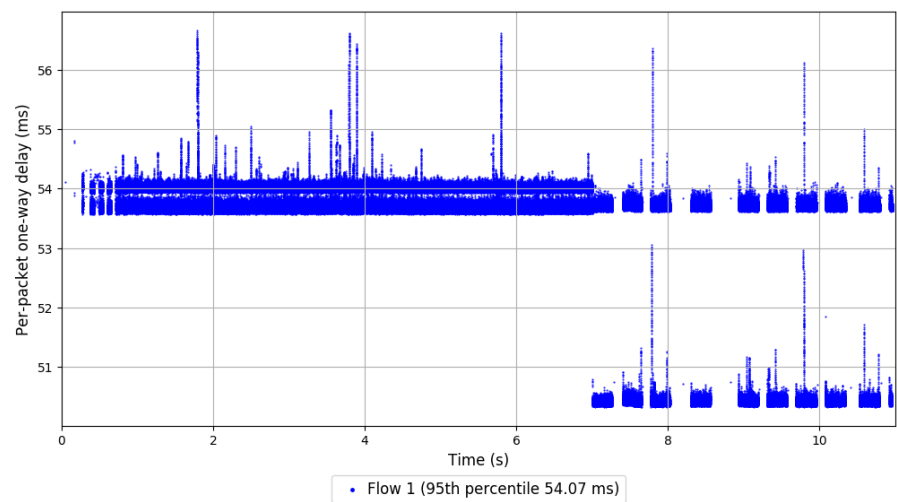
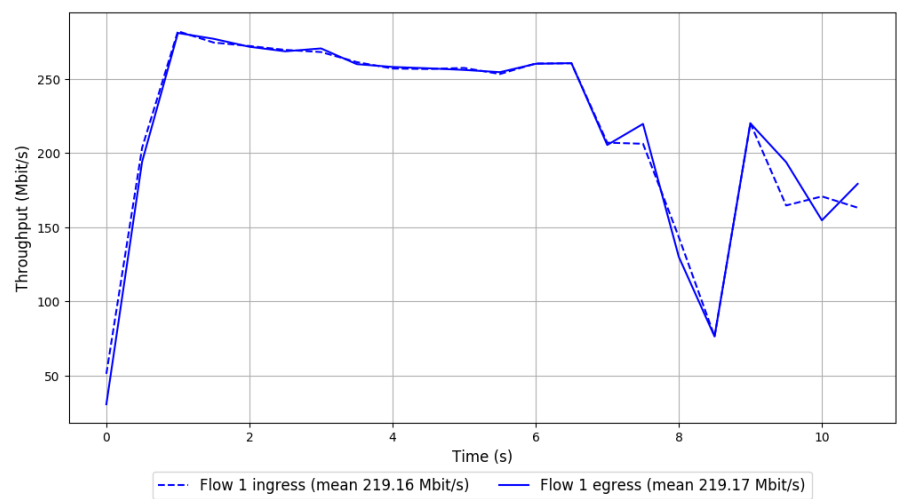


Run 4: Statistics of TaoVA-100x

Start at: 2018-01-30 20:57:48

End at: 2018-01-30 20:58:18

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

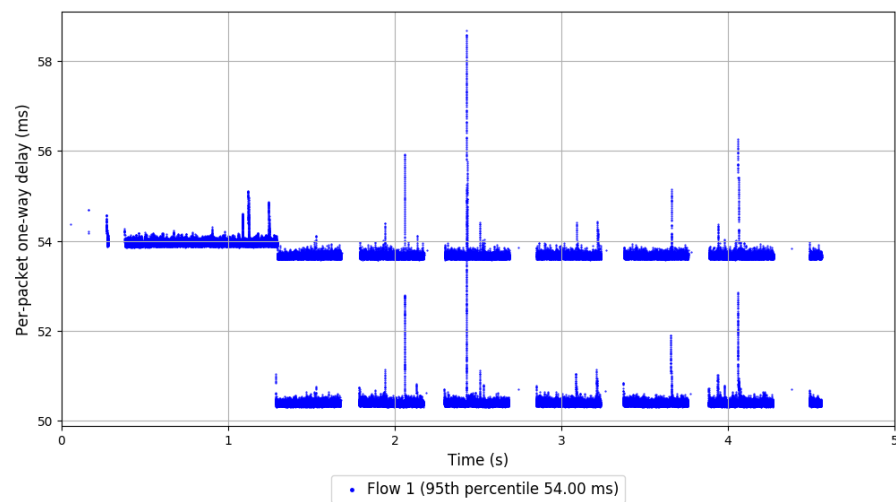
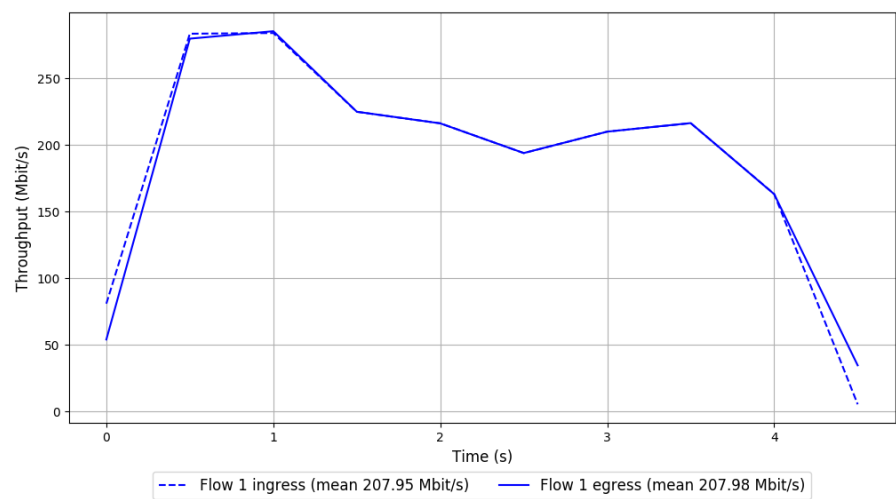


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-30 21:11:33

End at: 2018-01-30 21:12:03

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

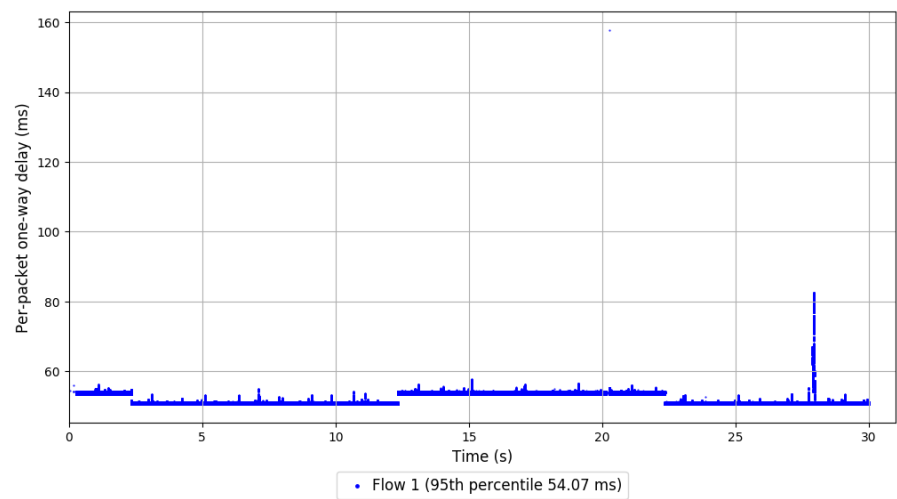
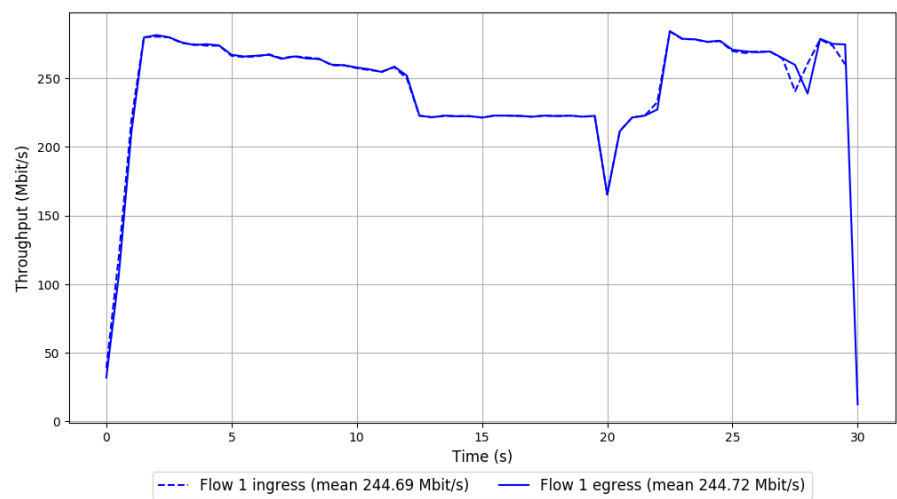


```
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-30 21:25:22
End at: 2018-01-30 21:25:52

# Below is generated by plot.py at 2018-01-31 00:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.72 Mbit/s
95th percentile per-packet one-way delay: 54.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.72 Mbit/s
95th percentile per-packet one-way delay: 54.072 ms
Loss rate: 0.00%
```

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

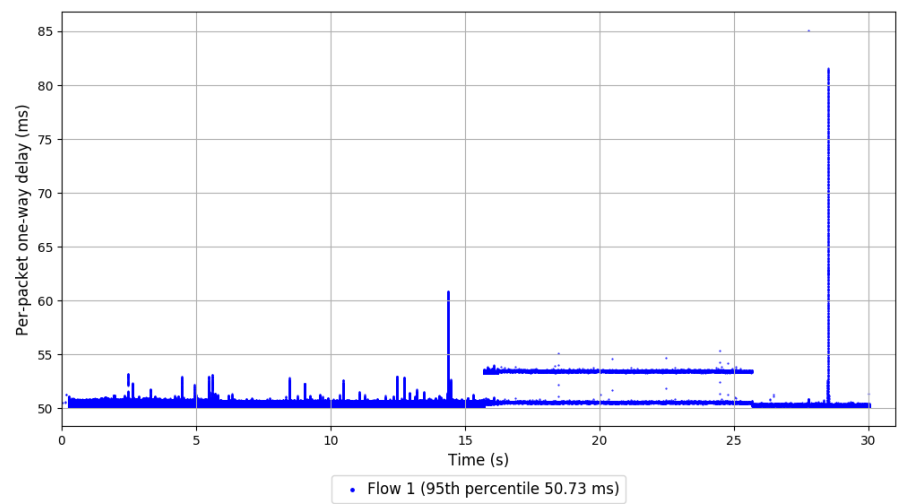
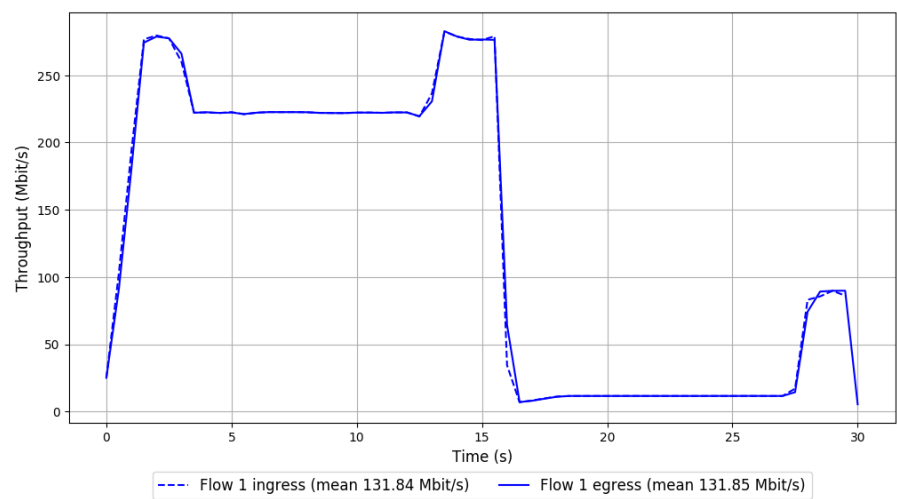


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-30 21:39:29
End at: 2018-01-30 21:39:59

# Below is generated by plot.py at 2018-01-31 00:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.85 Mbit/s
95th percentile per-packet one-way delay: 50.733 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.85 Mbit/s
95th percentile per-packet one-way delay: 50.733 ms
Loss rate: 0.00%
```

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

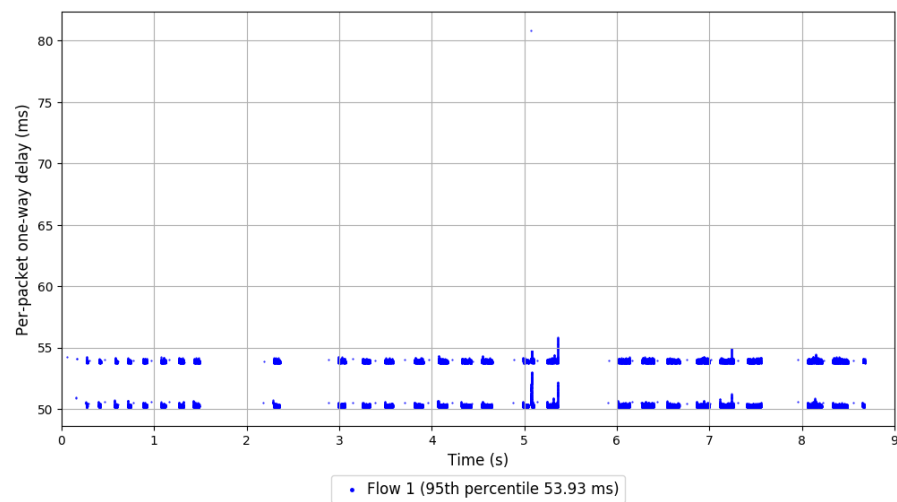
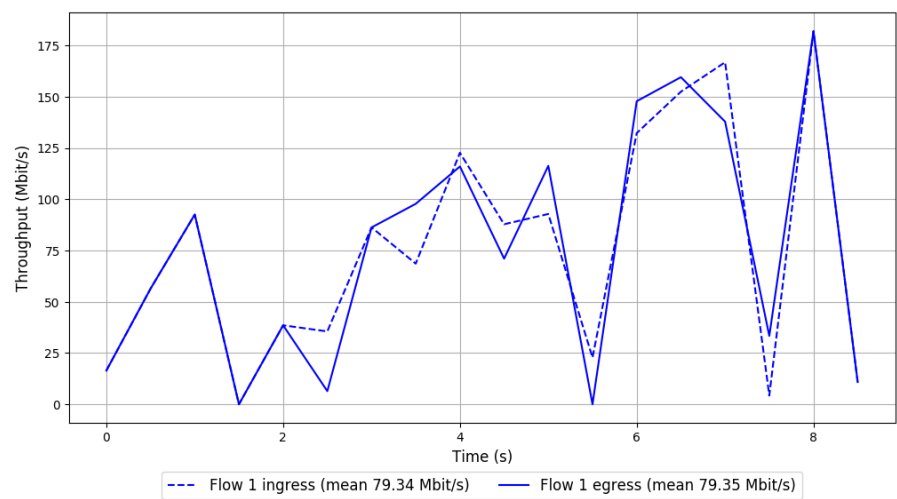


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-30 21:53:18

End at: 2018-01-30 21:53:48

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-30 22:07:05

End at: 2018-01-30 22:07:35

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.22 Mbit/s

95th percentile per-packet one-way delay: 53.896 ms

Loss rate: 0.00%

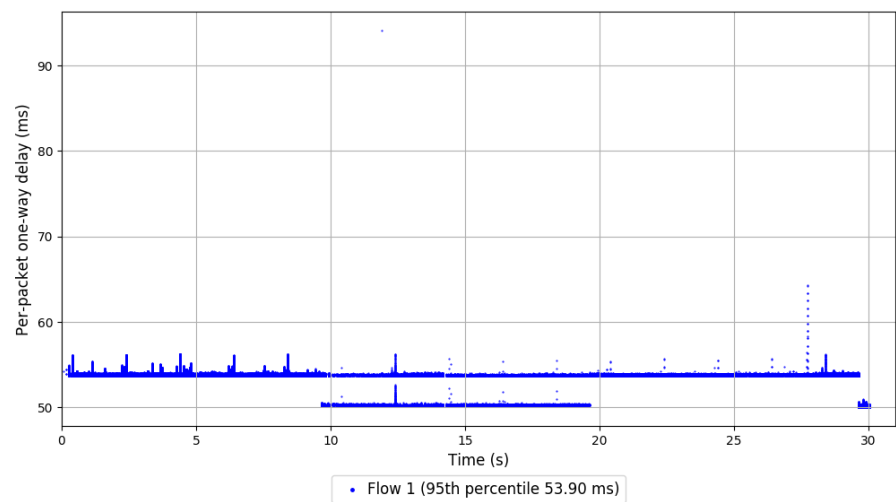
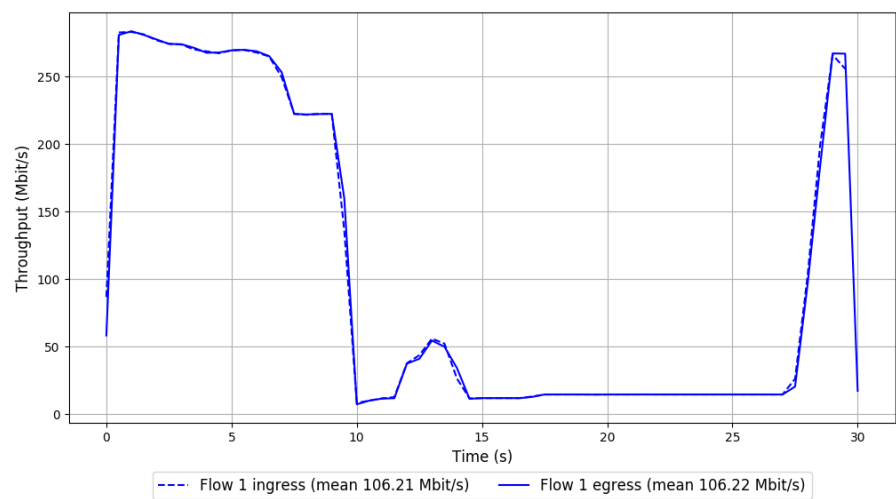
-- Flow 1:

Average throughput: 106.22 Mbit/s

95th percentile per-packet one-way delay: 53.896 ms

Loss rate: 0.00%

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

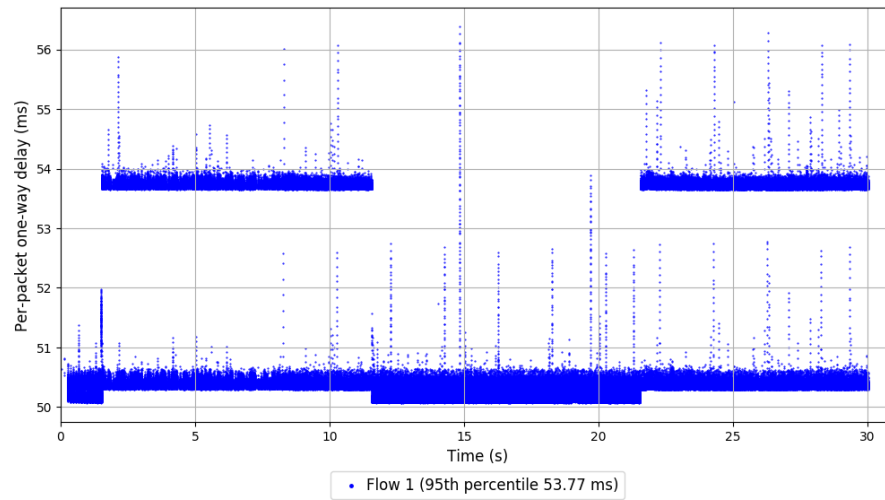
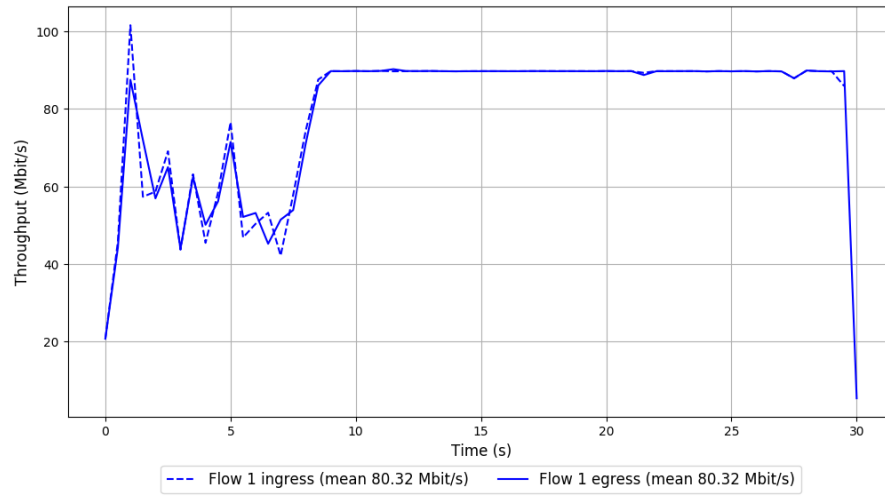


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-30 22:21:03
End at: 2018-01-30 22:21:33

# Below is generated by plot.py at 2018-01-31 00:00:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.32 Mbit/s
95th percentile per-packet one-way delay: 53.773 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.32 Mbit/s
95th percentile per-packet one-way delay: 53.773 ms
Loss rate: 0.01%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-30 20:13:30

End at: 2018-01-30 20:14:00

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.07 Mbit/s

95th percentile per-packet one-way delay: 56.892 ms

Loss rate: 0.31%

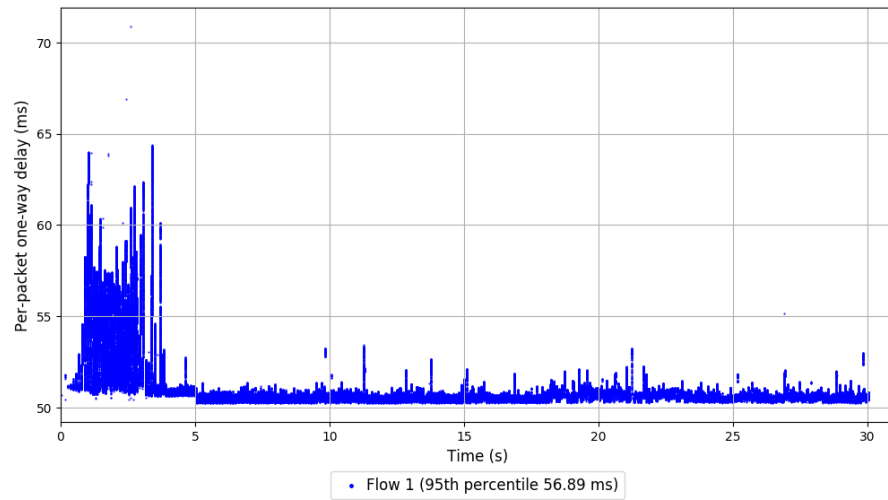
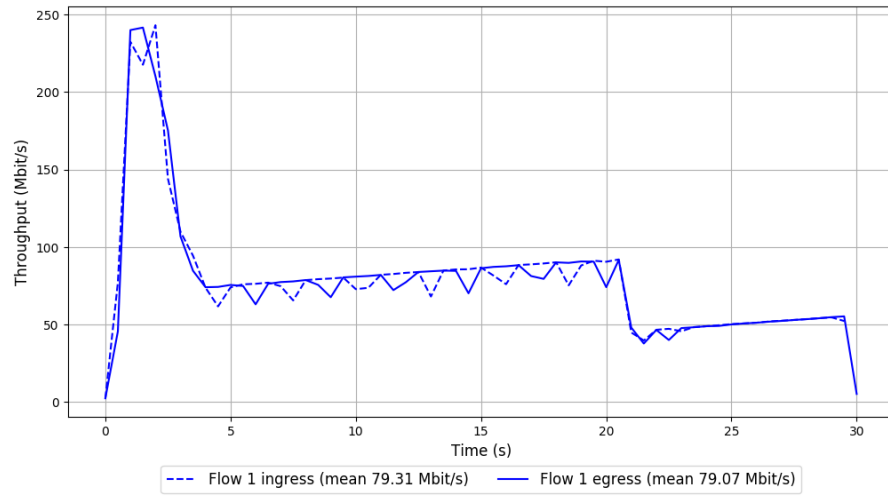
-- Flow 1:

Average throughput: 79.07 Mbit/s

95th percentile per-packet one-way delay: 56.892 ms

Loss rate: 0.31%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-30 20:27:03

End at: 2018-01-30 20:27:33

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.16 Mbit/s

95th percentile per-packet one-way delay: 56.469 ms

Loss rate: 0.00%

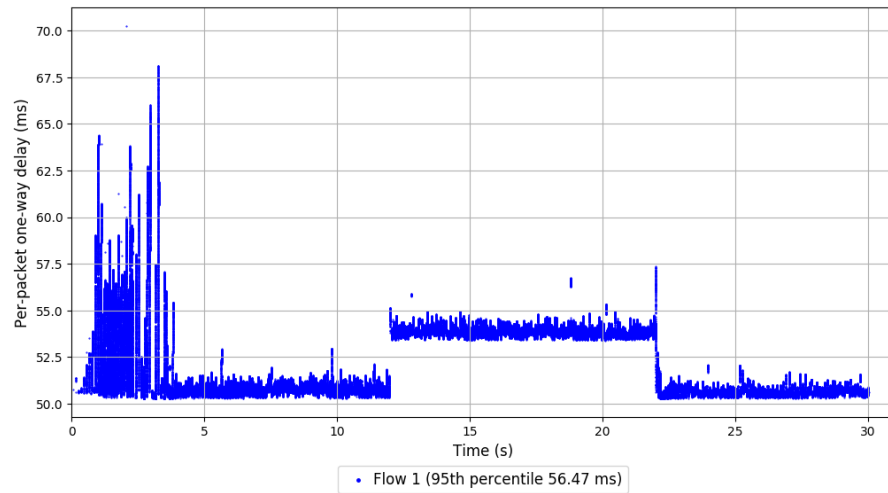
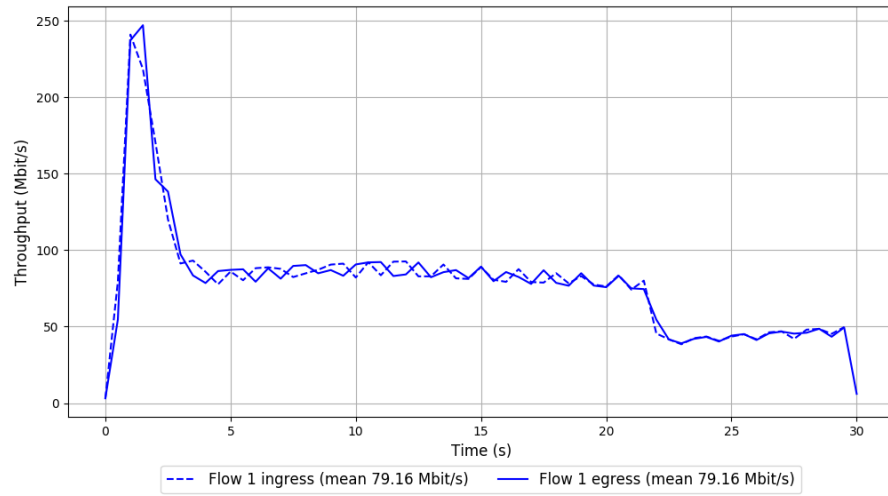
-- Flow 1:

Average throughput: 79.16 Mbit/s

95th percentile per-packet one-way delay: 56.469 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-30 20:40:39

End at: 2018-01-30 20:41:09

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.84 Mbit/s

95th percentile per-packet one-way delay: 54.509 ms

Loss rate: 0.00%

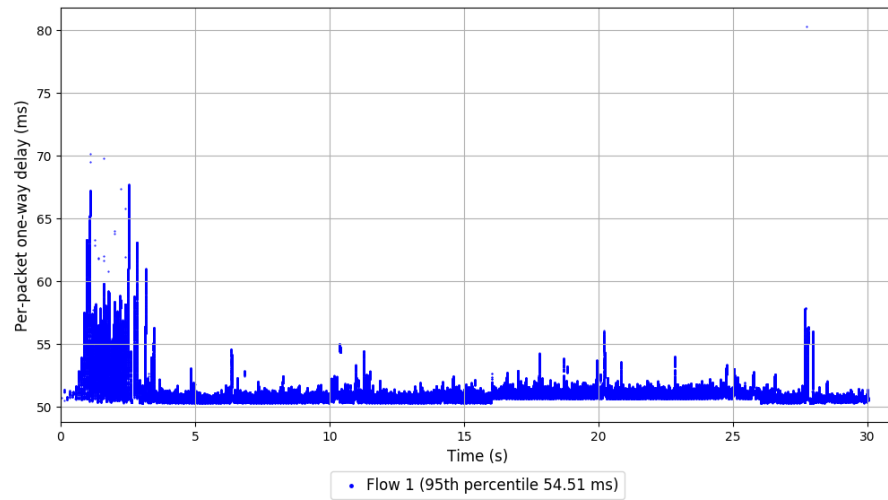
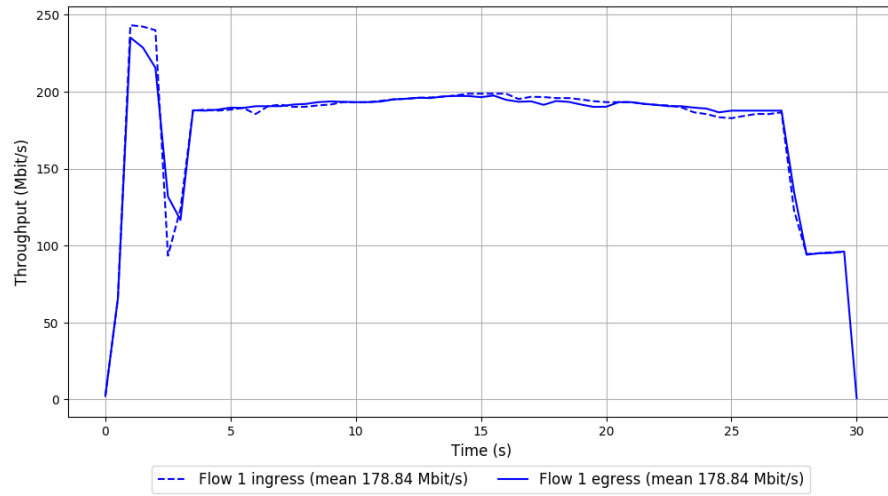
-- Flow 1:

Average throughput: 178.84 Mbit/s

95th percentile per-packet one-way delay: 54.509 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-30 20:54:25

End at: 2018-01-30 20:54:55

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.70 Mbit/s

95th percentile per-packet one-way delay: 54.870 ms

Loss rate: 0.00%

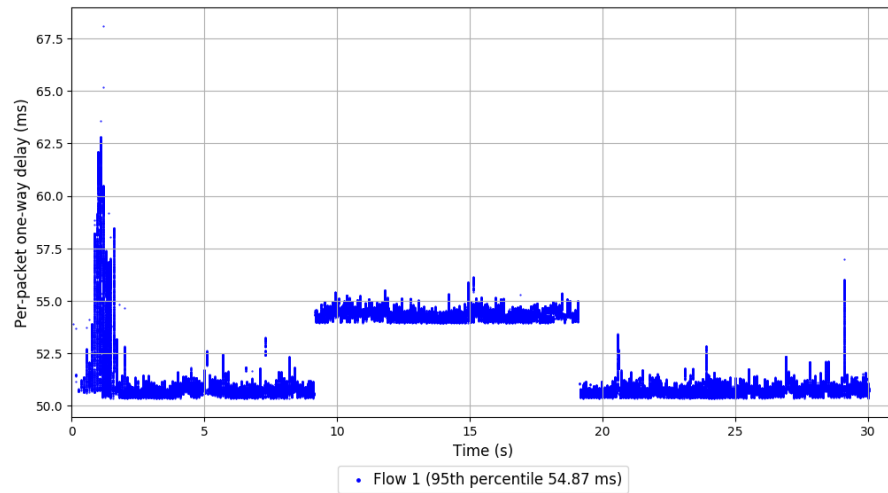
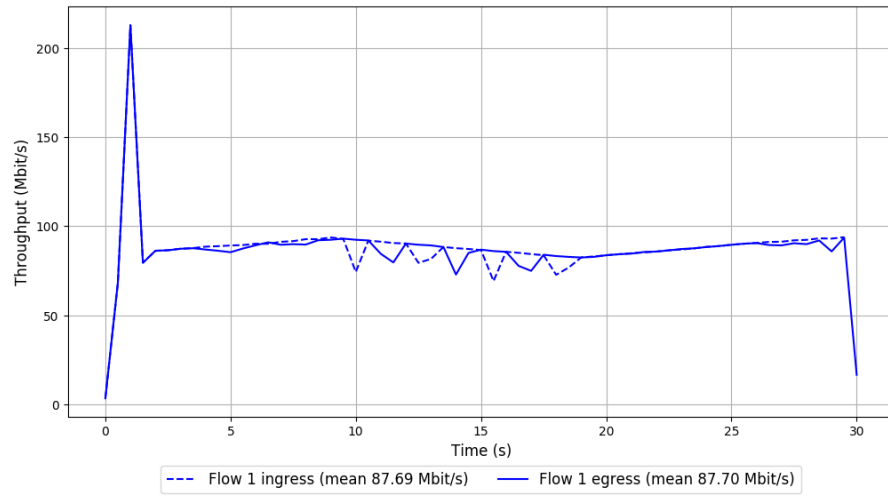
-- Flow 1:

Average throughput: 87.70 Mbit/s

95th percentile per-packet one-way delay: 54.870 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-30 21:08:13

End at: 2018-01-30 21:08:43

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.01%

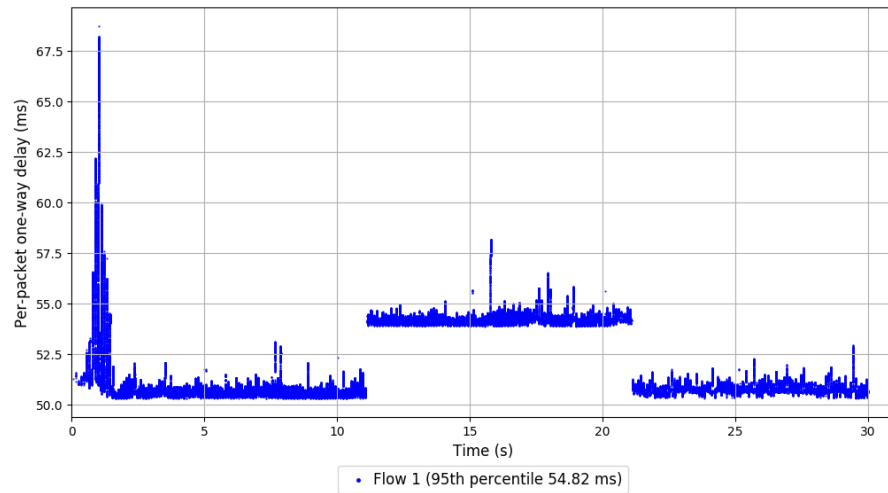
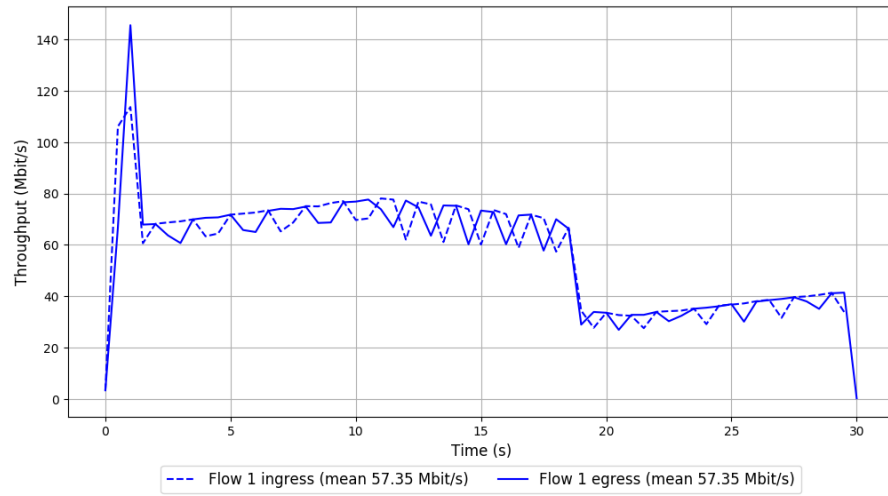
-- Flow 1:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 54.817 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-30 21:21:59

End at: 2018-01-30 21:22:30

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 53.988 ms

Loss rate: 0.00%

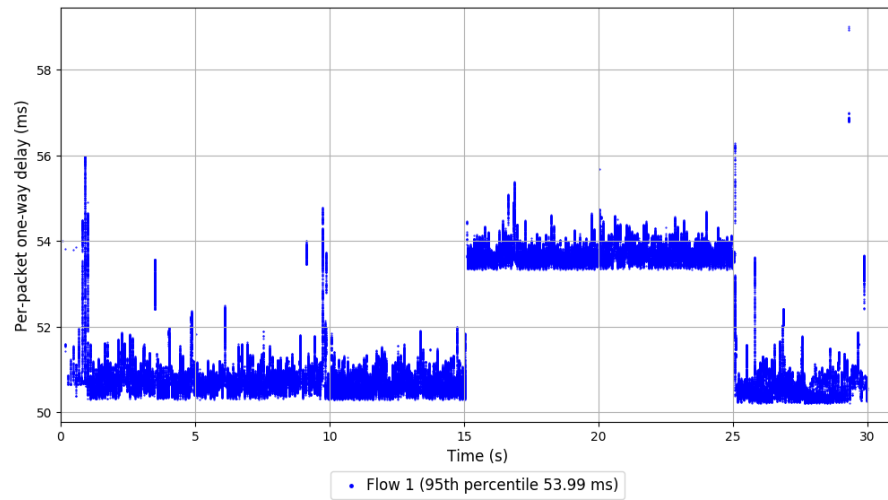
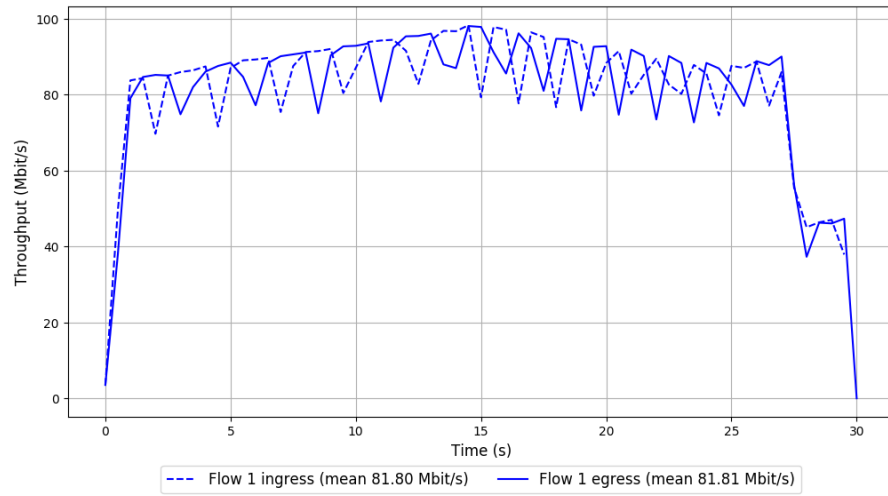
-- Flow 1:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 53.988 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-30 21:36:08

End at: 2018-01-30 21:36:38

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.43 Mbit/s

95th percentile per-packet one-way delay: 51.480 ms

Loss rate: 0.00%

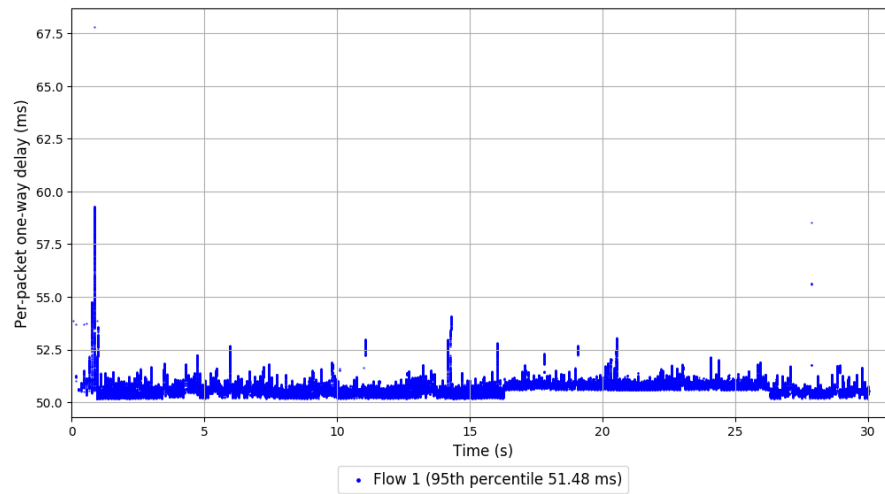
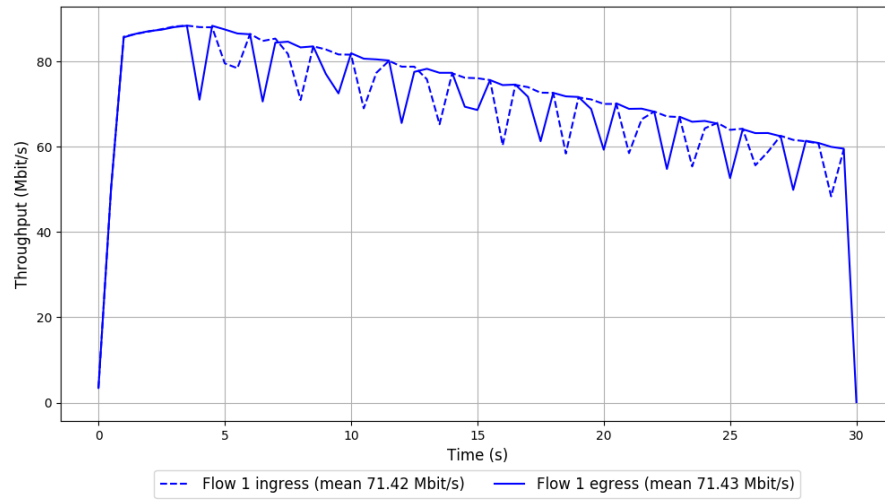
-- Flow 1:

Average throughput: 71.43 Mbit/s

95th percentile per-packet one-way delay: 51.480 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-30 21:49:55

End at: 2018-01-30 21:50:25

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.14 Mbit/s

95th percentile per-packet one-way delay: 55.092 ms

Loss rate: 0.00%

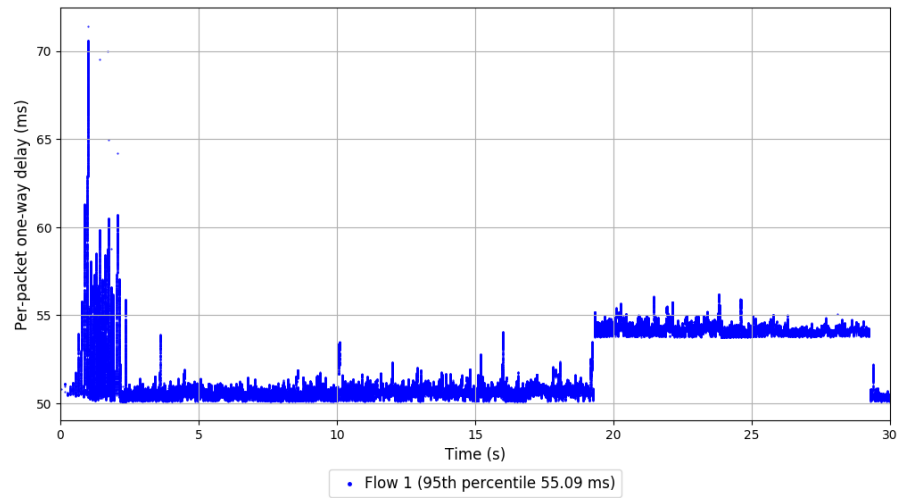
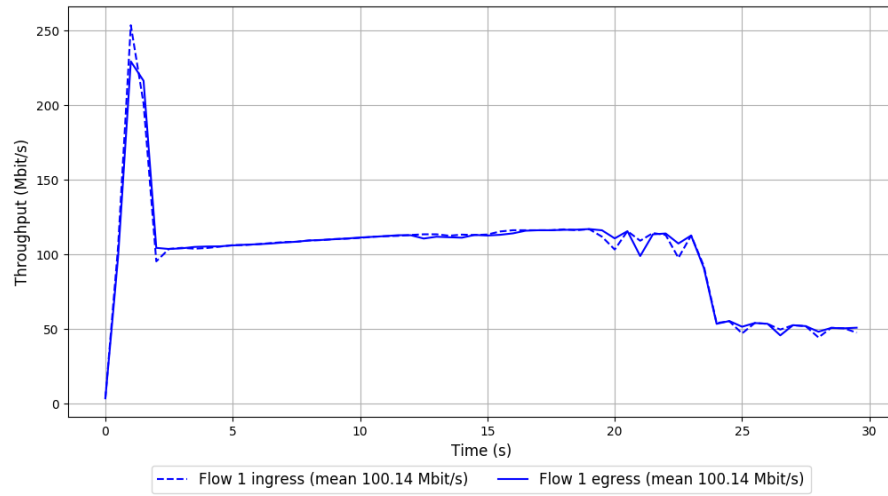
-- Flow 1:

Average throughput: 100.14 Mbit/s

95th percentile per-packet one-way delay: 55.092 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-30 22:03:40

End at: 2018-01-30 22:04:10

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.85 Mbit/s

95th percentile per-packet one-way delay: 54.919 ms

Loss rate: 0.12%

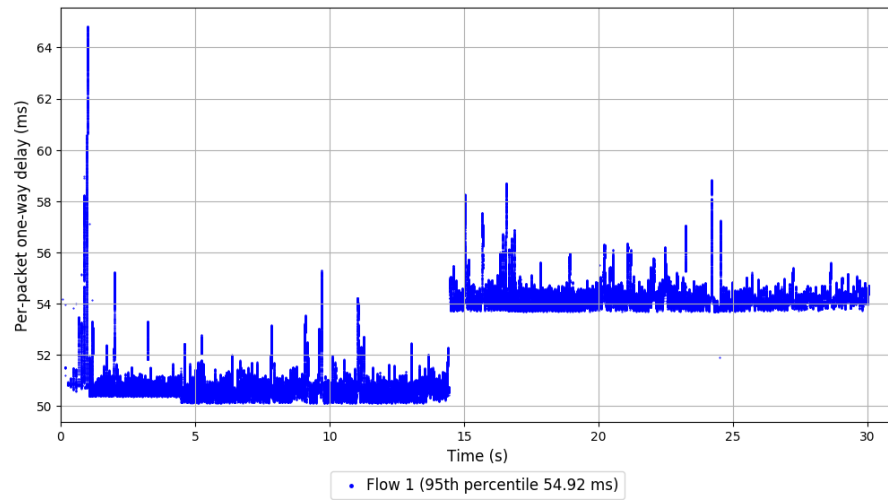
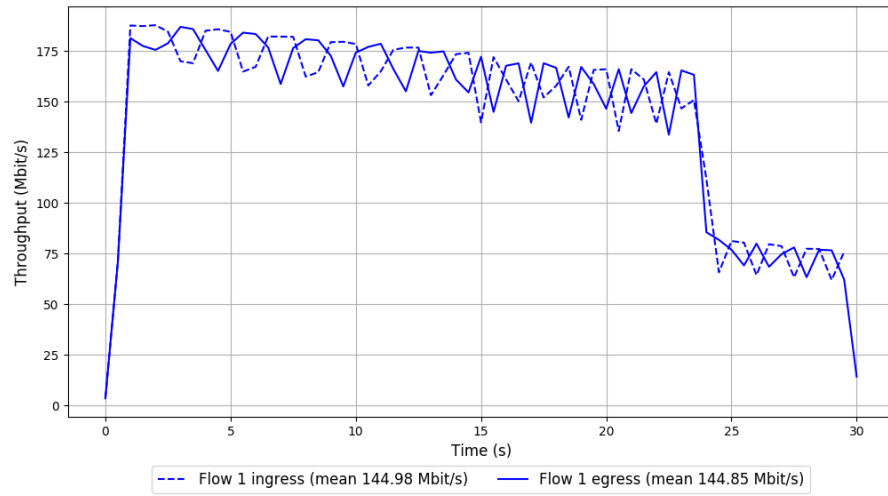
-- Flow 1:

Average throughput: 144.85 Mbit/s

95th percentile per-packet one-way delay: 54.919 ms

Loss rate: 0.12%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-30 22:17:40

End at: 2018-01-30 22:18:10

Below is generated by plot.py at 2018-01-31 00:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.07 Mbit/s

95th percentile per-packet one-way delay: 54.736 ms

Loss rate: 0.00%

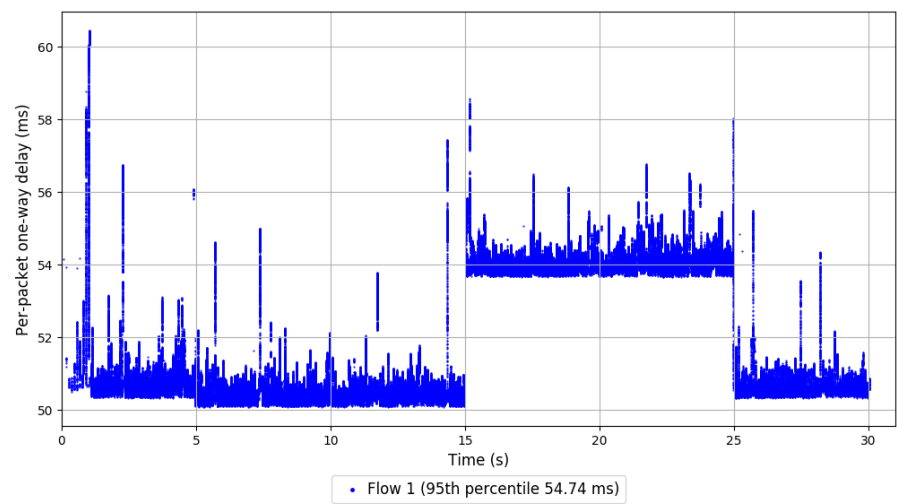
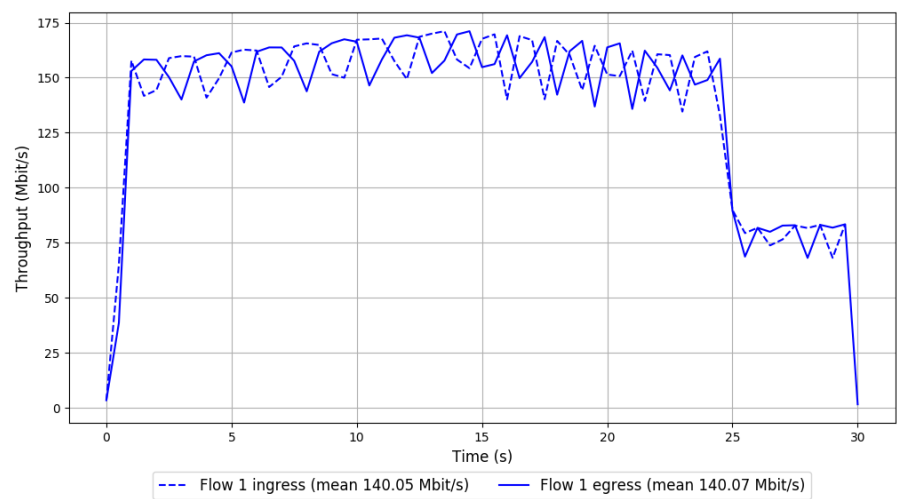
-- Flow 1:

Average throughput: 140.07 Mbit/s

95th percentile per-packet one-way delay: 54.736 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

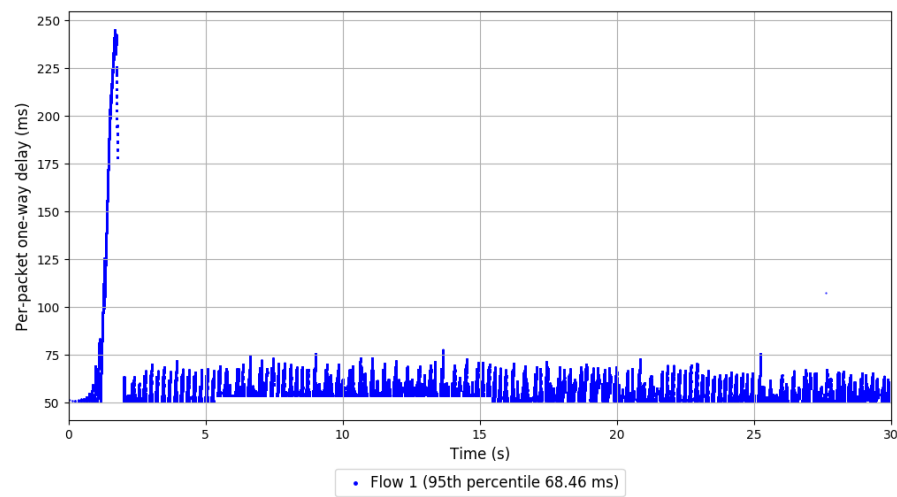
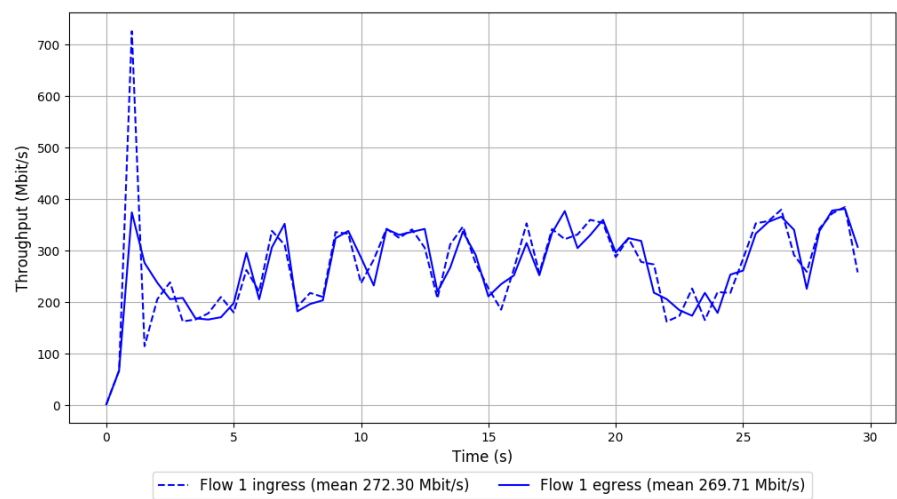


```
Run 1: Statistics of Verus

Start at: 2018-01-30 20:05:29
End at: 2018-01-30 20:05:59

# Below is generated by plot.py at 2018-01-31 00:02:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.71 Mbit/s
95th percentile per-packet one-way delay: 68.464 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 269.71 Mbit/s
95th percentile per-packet one-way delay: 68.464 ms
Loss rate: 0.95%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-30 20:19:12

End at: 2018-01-30 20:19:42

Below is generated by plot.py at 2018-01-31 00:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.50 Mbit/s

95th percentile per-packet one-way delay: 84.411 ms

Loss rate: 1.03%

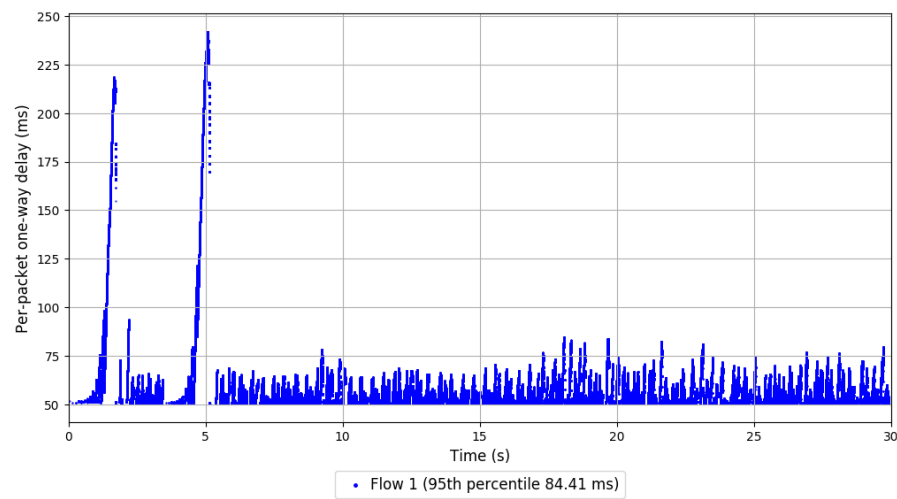
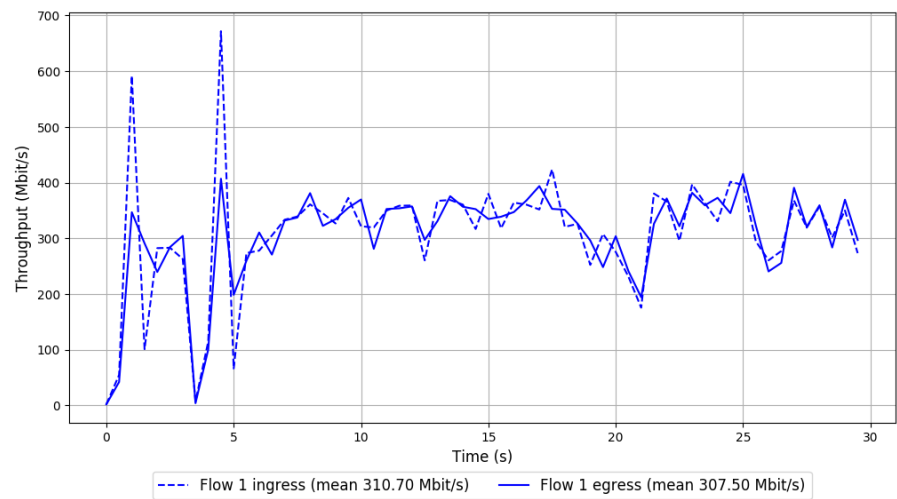
-- Flow 1:

Average throughput: 307.50 Mbit/s

95th percentile per-packet one-way delay: 84.411 ms

Loss rate: 1.03%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-30 20:32:43

End at: 2018-01-30 20:33:13

Below is generated by plot.py at 2018-01-31 00:03:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.02 Mbit/s

95th percentile per-packet one-way delay: 88.357 ms

Loss rate: 0.54%

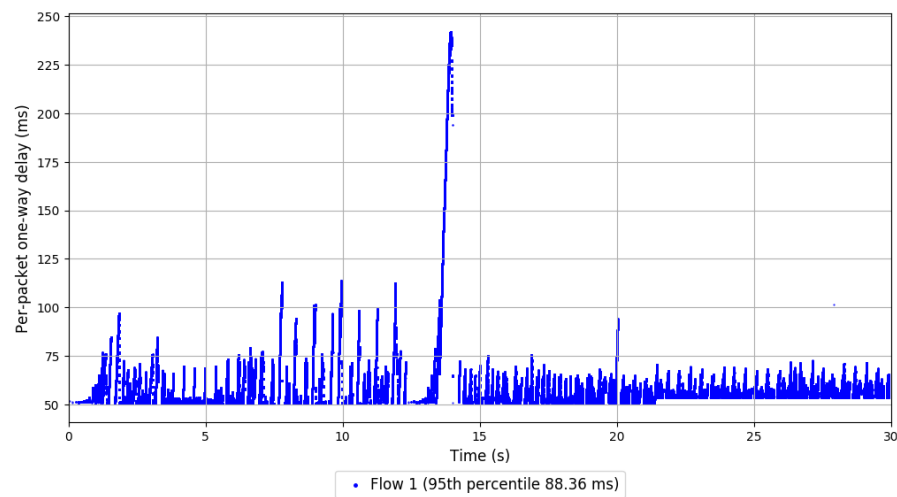
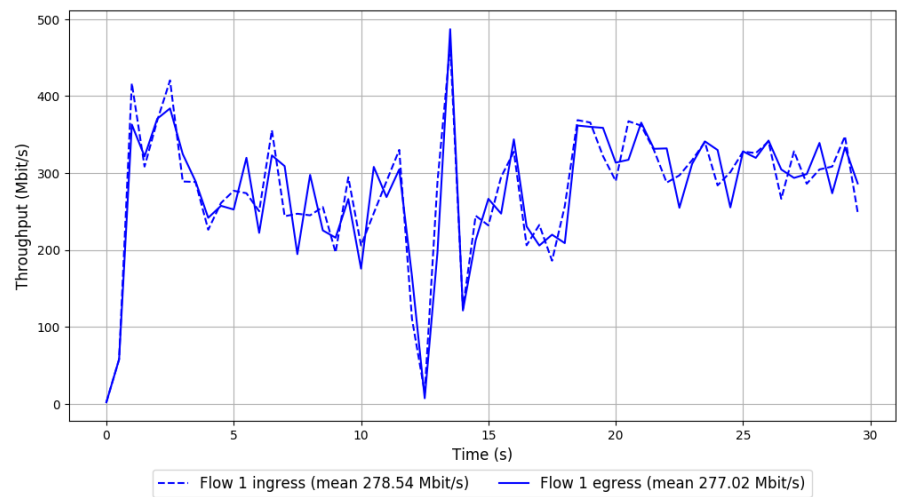
-- Flow 1:

Average throughput: 277.02 Mbit/s

95th percentile per-packet one-way delay: 88.357 ms

Loss rate: 0.54%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-30 20:46:28

End at: 2018-01-30 20:46:58

Below is generated by plot.py at 2018-01-31 00:04:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.72 Mbit/s

95th percentile per-packet one-way delay: 81.876 ms

Loss rate: 0.21%

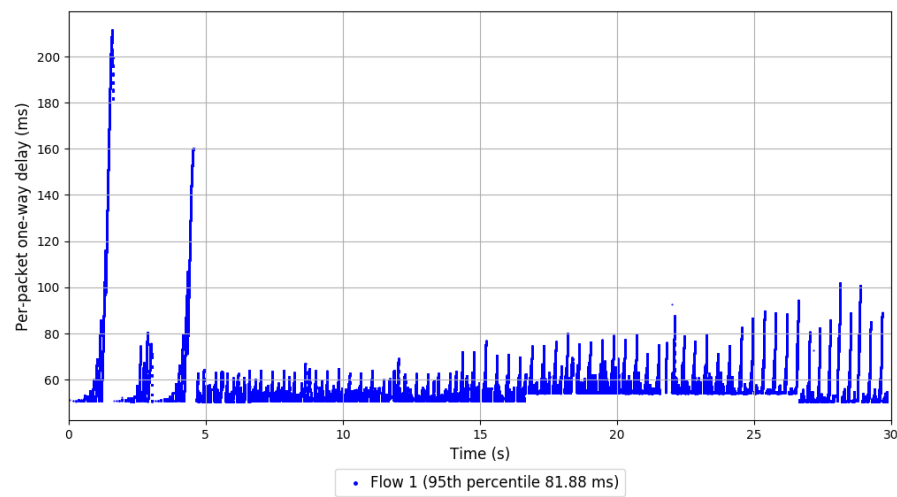
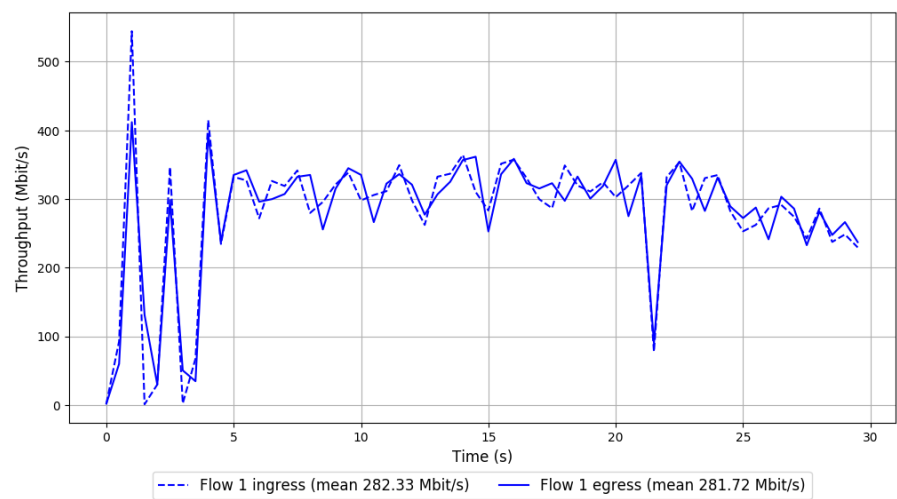
-- Flow 1:

Average throughput: 281.72 Mbit/s

95th percentile per-packet one-way delay: 81.876 ms

Loss rate: 0.21%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-30 21:00:19

End at: 2018-01-30 21:00:49

Below is generated by plot.py at 2018-01-31 00:04:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.39 Mbit/s

95th percentile per-packet one-way delay: 72.766 ms

Loss rate: 0.54%

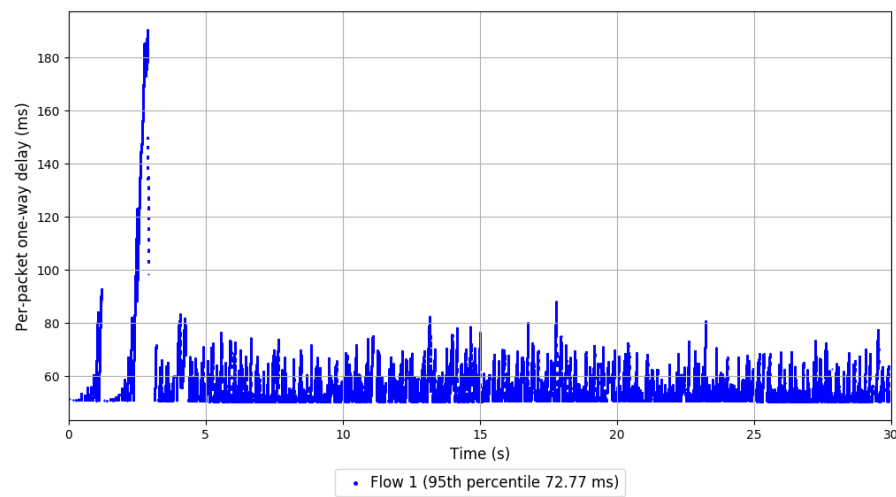
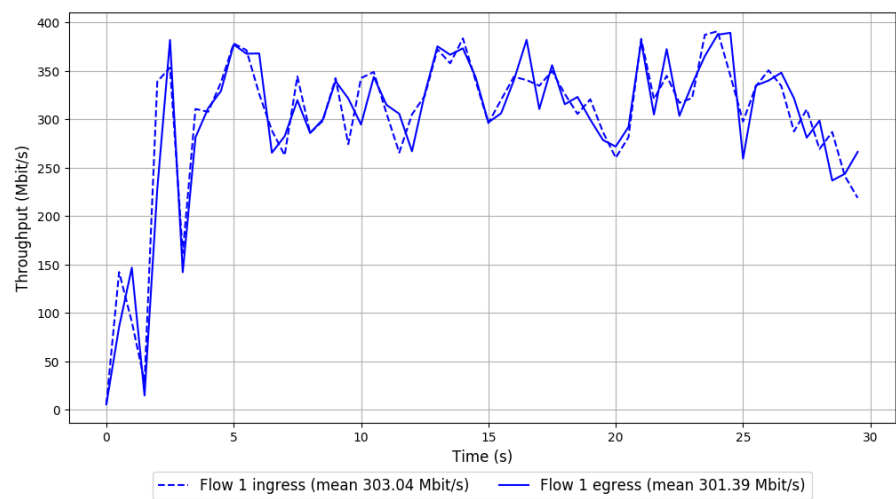
-- Flow 1:

Average throughput: 301.39 Mbit/s

95th percentile per-packet one-way delay: 72.766 ms

Loss rate: 0.54%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-30 21:14:03

End at: 2018-01-30 21:14:33

Below is generated by plot.py at 2018-01-31 00:04:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.80 Mbit/s

95th percentile per-packet one-way delay: 208.730 ms

Loss rate: 0.83%

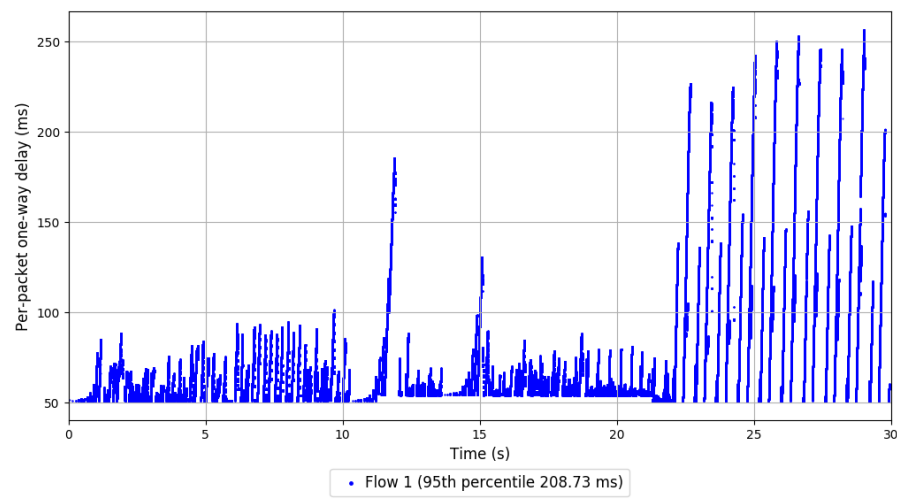
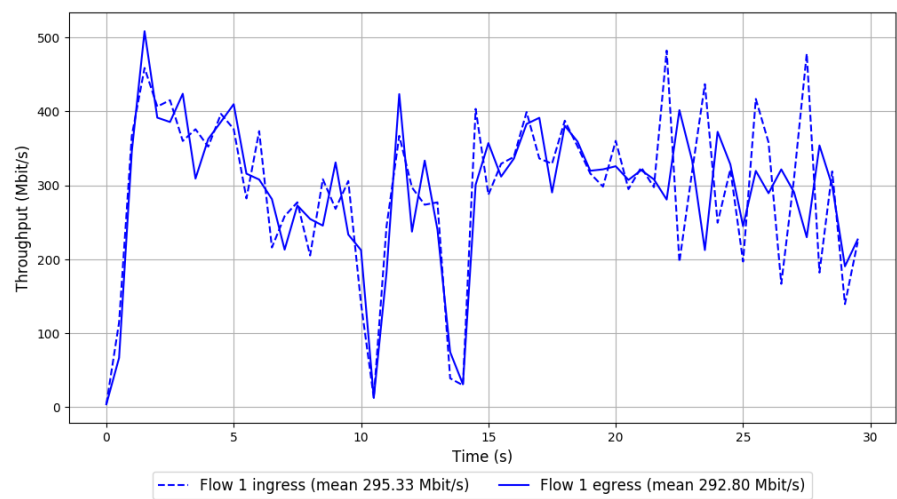
-- Flow 1:

Average throughput: 292.80 Mbit/s

95th percentile per-packet one-way delay: 208.730 ms

Loss rate: 0.83%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-30 21:28:14

End at: 2018-01-30 21:28:44

Below is generated by plot.py at 2018-01-31 00:04:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.88 Mbit/s

95th percentile per-packet one-way delay: 116.698 ms

Loss rate: 0.05%

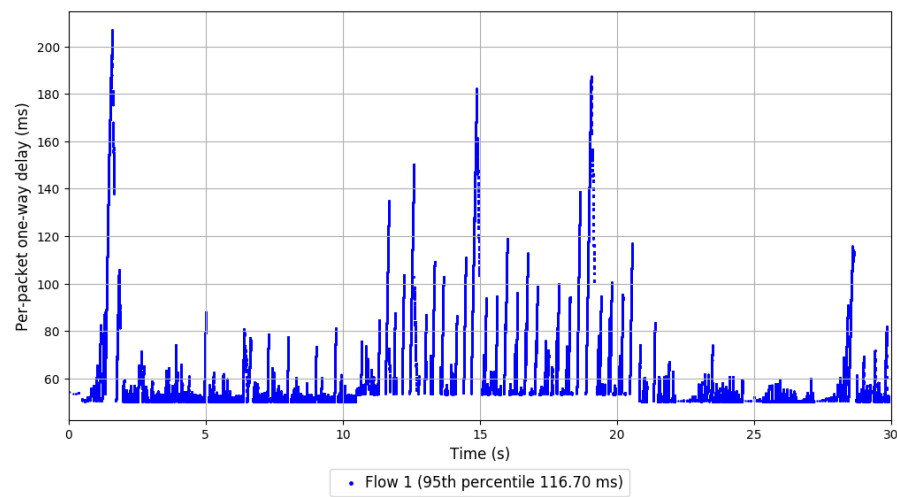
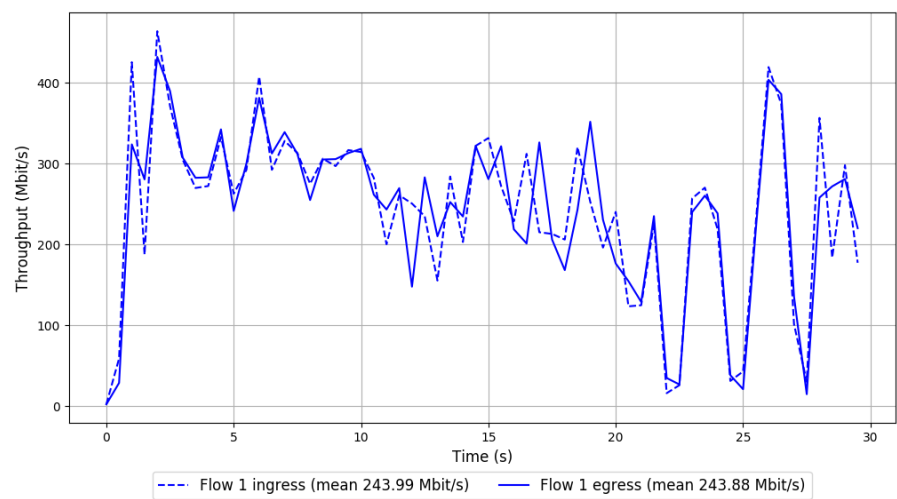
-- Flow 1:

Average throughput: 243.88 Mbit/s

95th percentile per-packet one-way delay: 116.698 ms

Loss rate: 0.05%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-30 21:41:58

End at: 2018-01-30 21:42:28

Below is generated by plot.py at 2018-01-31 00:04:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.52 Mbit/s

95th percentile per-packet one-way delay: 97.553 ms

Loss rate: 0.73%

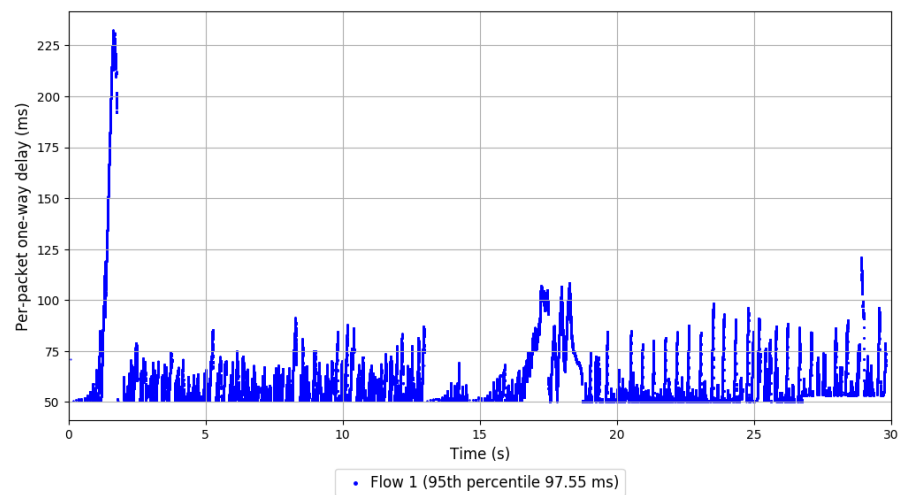
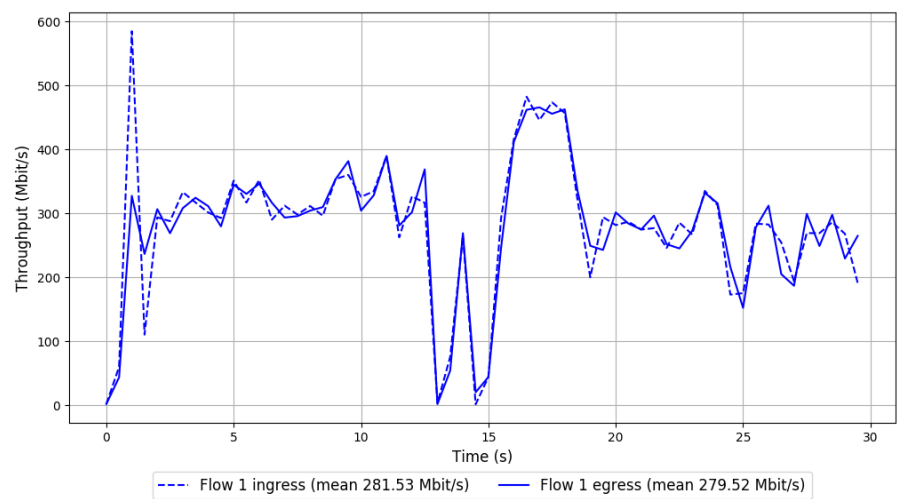
-- Flow 1:

Average throughput: 279.52 Mbit/s

95th percentile per-packet one-way delay: 97.553 ms

Loss rate: 0.73%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-30 21:55:43

End at: 2018-01-30 21:56:13

Below is generated by plot.py at 2018-01-31 00:07:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.96 Mbit/s

95th percentile per-packet one-way delay: 82.529 ms

Loss rate: 0.25%

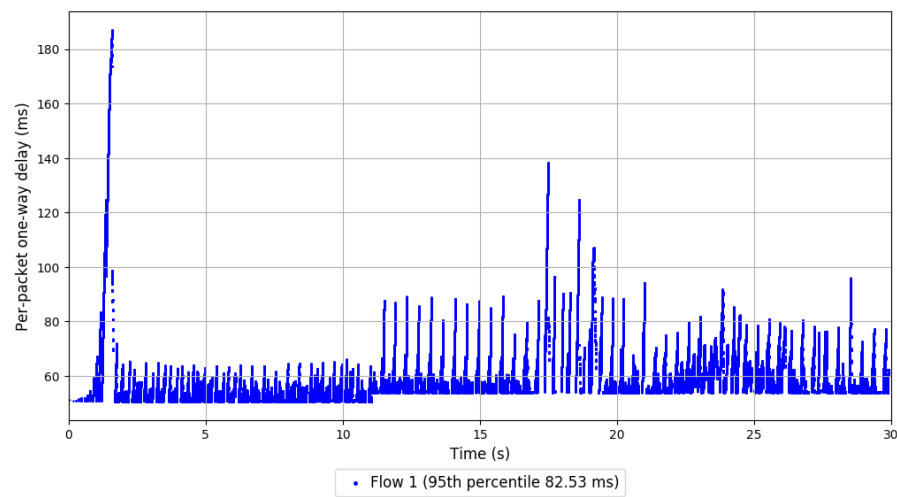
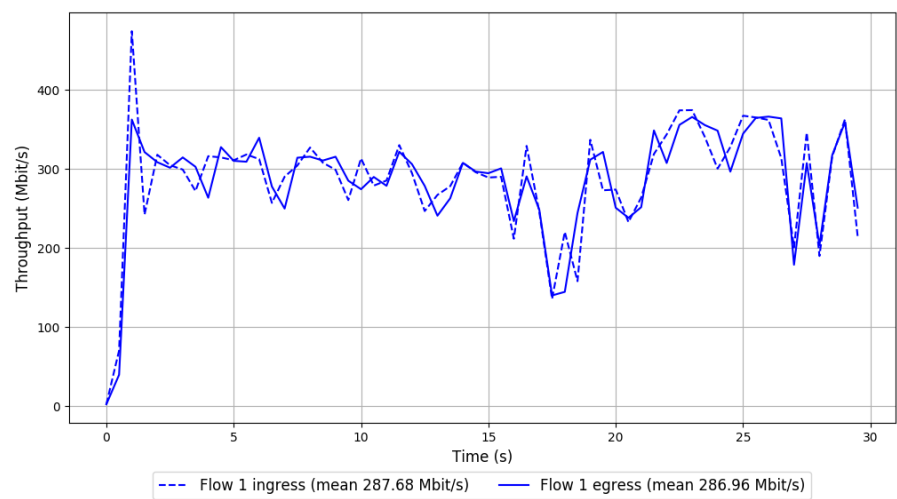
-- Flow 1:

Average throughput: 286.96 Mbit/s

95th percentile per-packet one-way delay: 82.529 ms

Loss rate: 0.25%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-30 22:09:36

End at: 2018-01-30 22:10:06

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.85 Mbit/s

95th percentile per-packet one-way delay: 79.011 ms

Loss rate: 0.72%

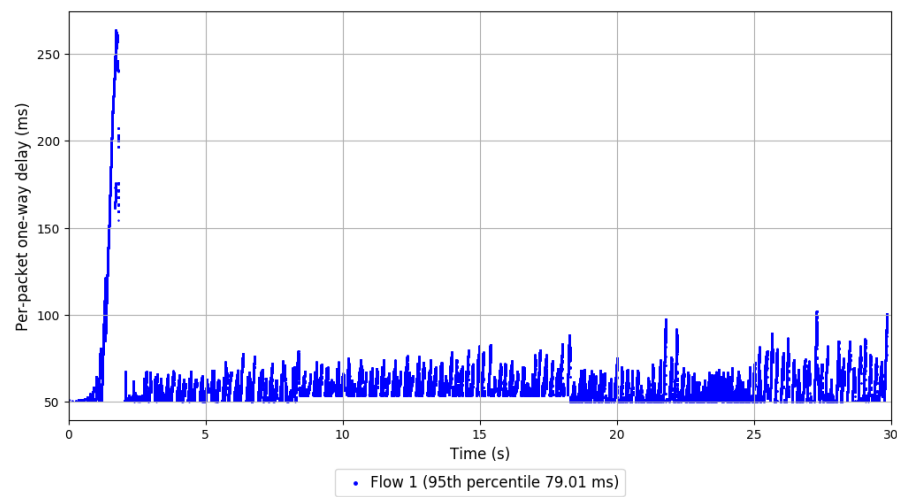
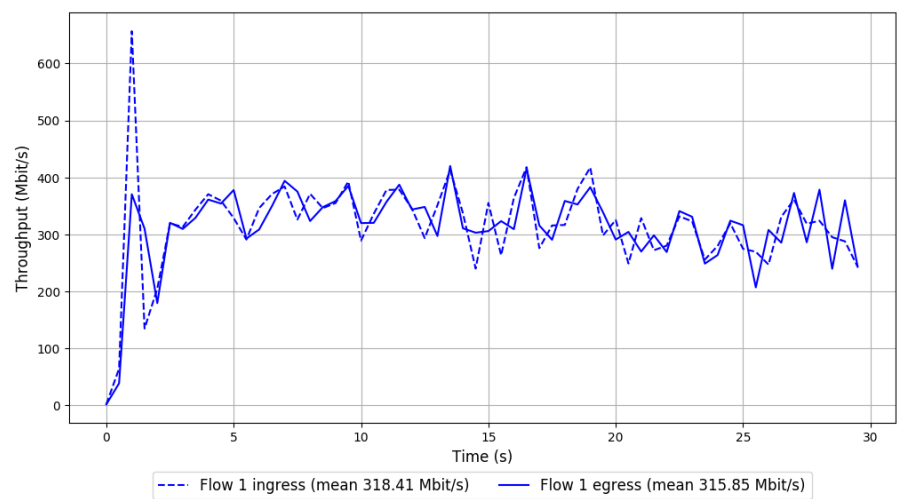
-- Flow 1:

Average throughput: 315.85 Mbit/s

95th percentile per-packet one-way delay: 79.011 ms

Loss rate: 0.72%

Run 10: Report of Verus — Data Link

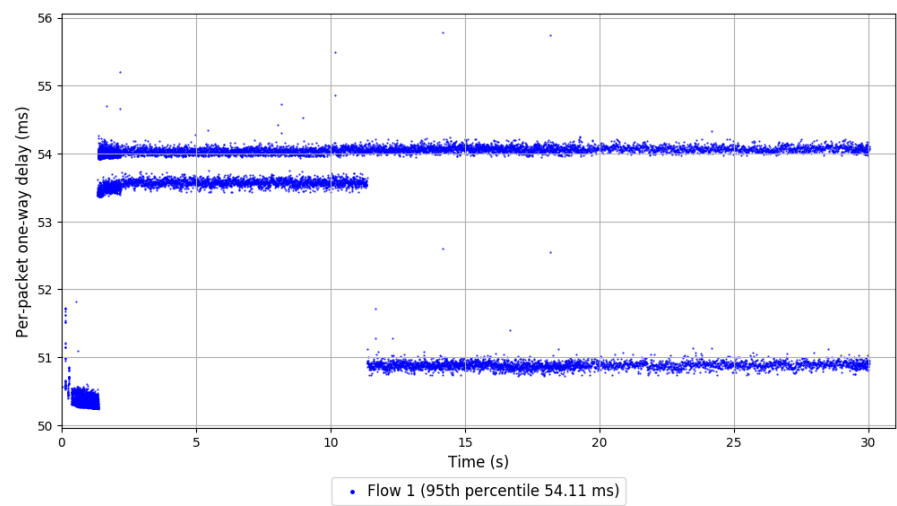
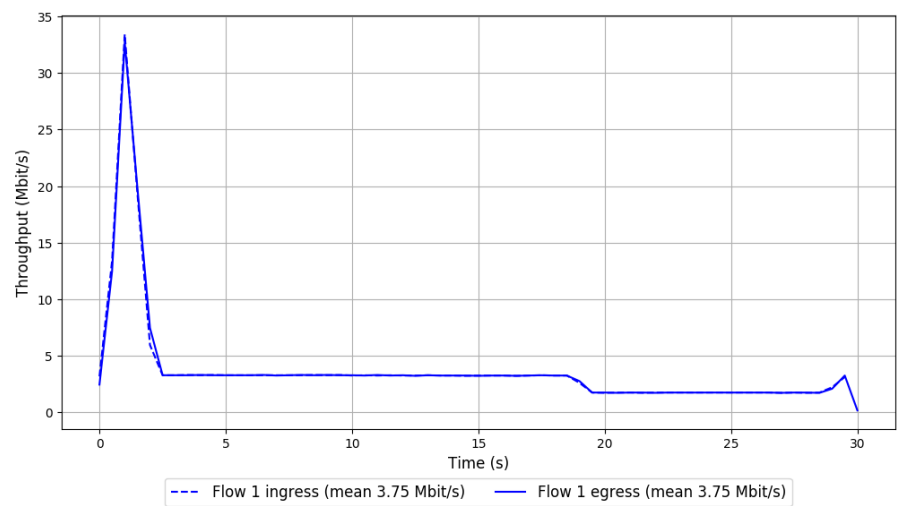


```
Run 1: Statistics of Copa

Start at: 2018-01-30 20:09:03
End at: 2018-01-30 20:09:33

# Below is generated by plot.py at 2018-01-31 00:08:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 54.106 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.75 Mbit/s
95th percentile per-packet one-way delay: 54.106 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-30 20:22:42

End at: 2018-01-30 20:23:12

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.93 Mbit/s

95th percentile per-packet one-way delay: 53.999 ms

Loss rate: 0.00%

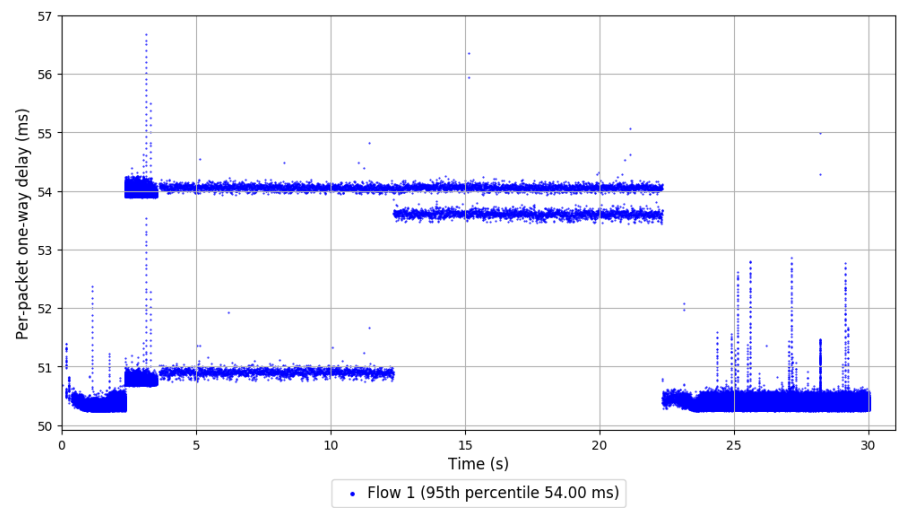
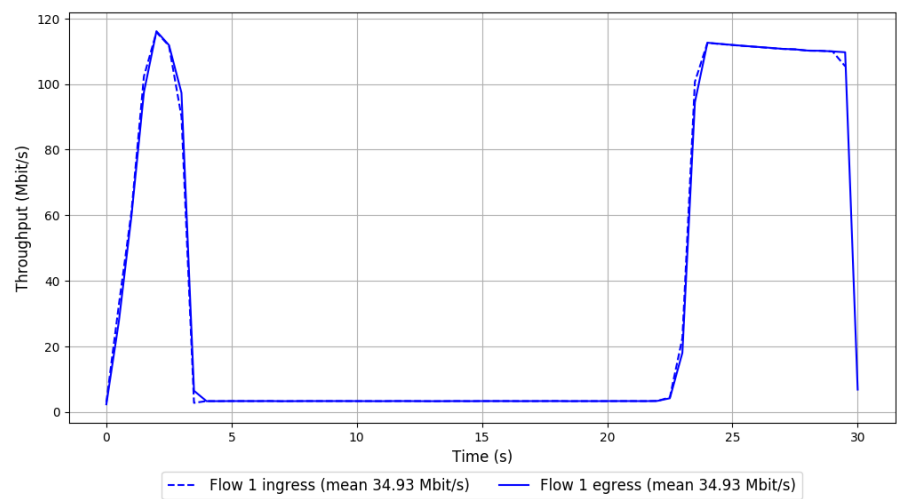
-- Flow 1:

Average throughput: 34.93 Mbit/s

95th percentile per-packet one-way delay: 53.999 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-30 20:36:11

End at: 2018-01-30 20:36:41

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.97 Mbit/s

95th percentile per-packet one-way delay: 53.959 ms

Loss rate: 0.00%

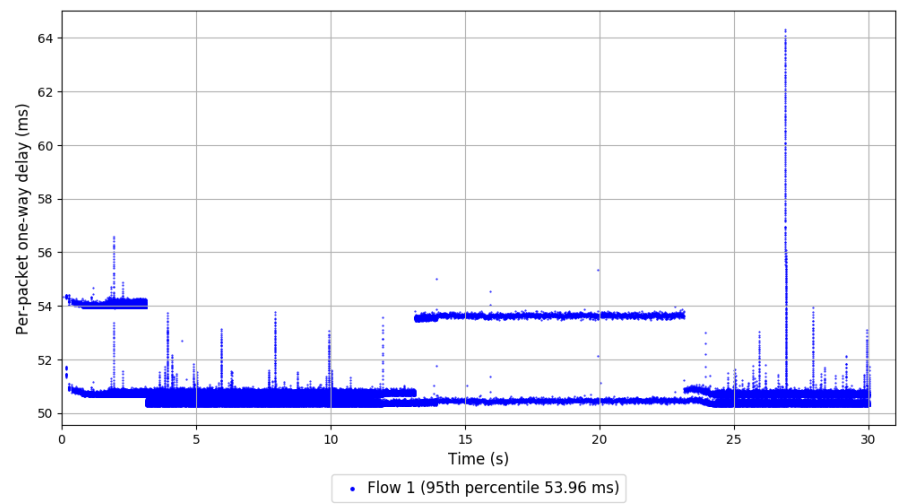
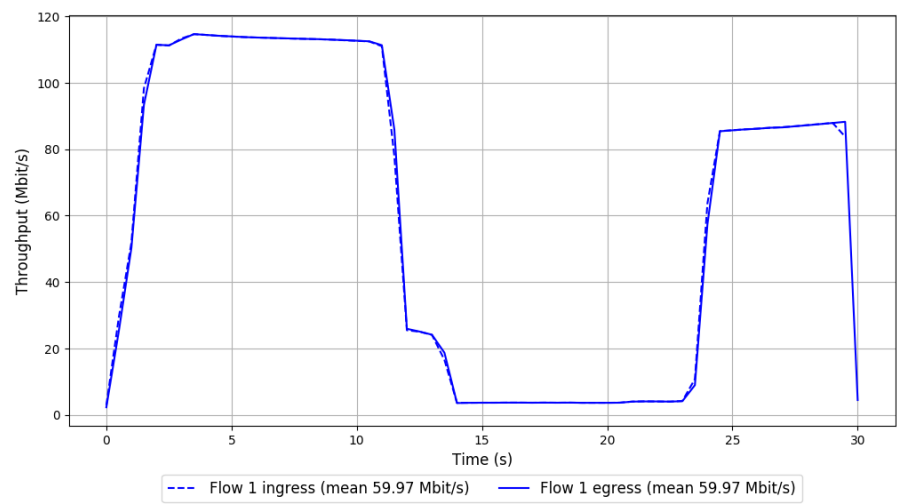
-- Flow 1:

Average throughput: 59.97 Mbit/s

95th percentile per-packet one-way delay: 53.959 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-30 20:49:58

End at: 2018-01-30 20:50:28

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.66 Mbit/s

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

Loss rate: 0.00%

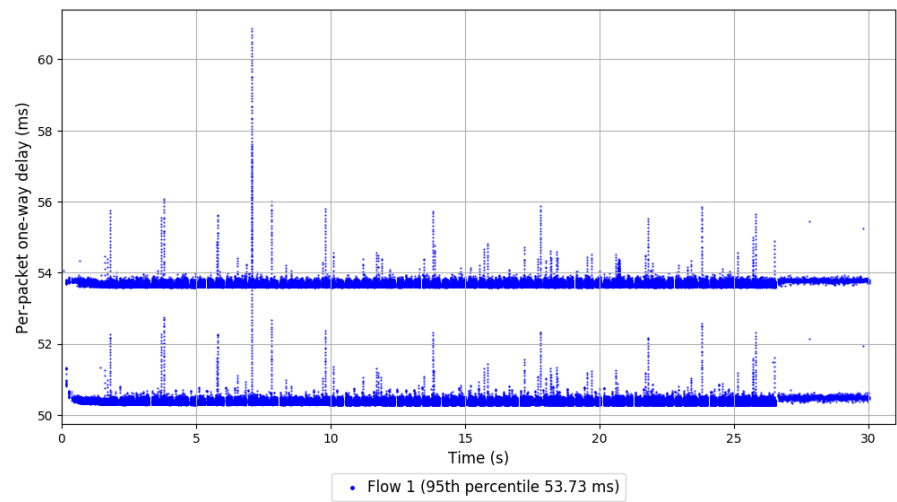
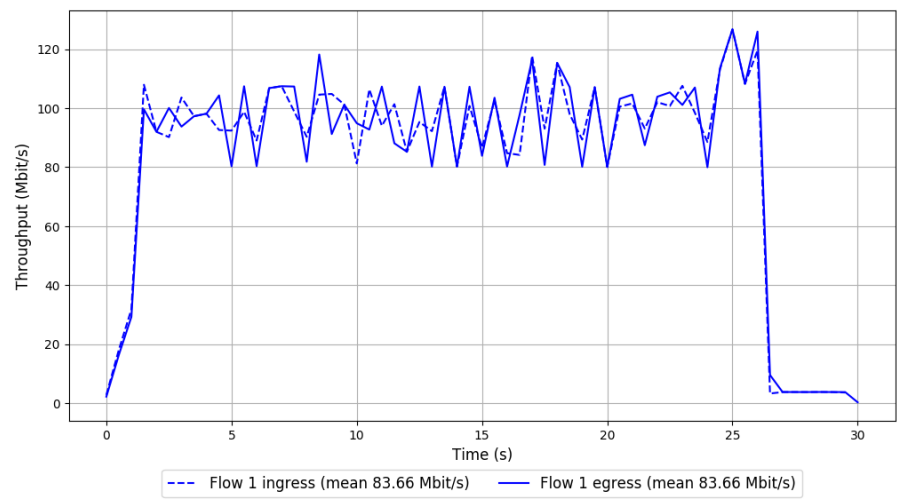
-- Flow 1:

Average throughput: 83.66 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-30 21:03:48

End at: 2018-01-30 21:04:18

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.09 Mbit/s

95th percentile per-packet one-way delay: 50.756 ms

Loss rate: 0.00%

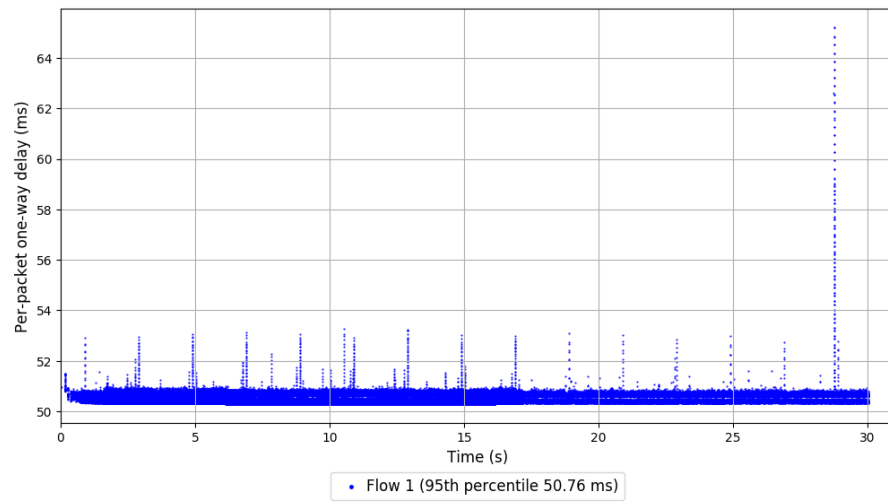
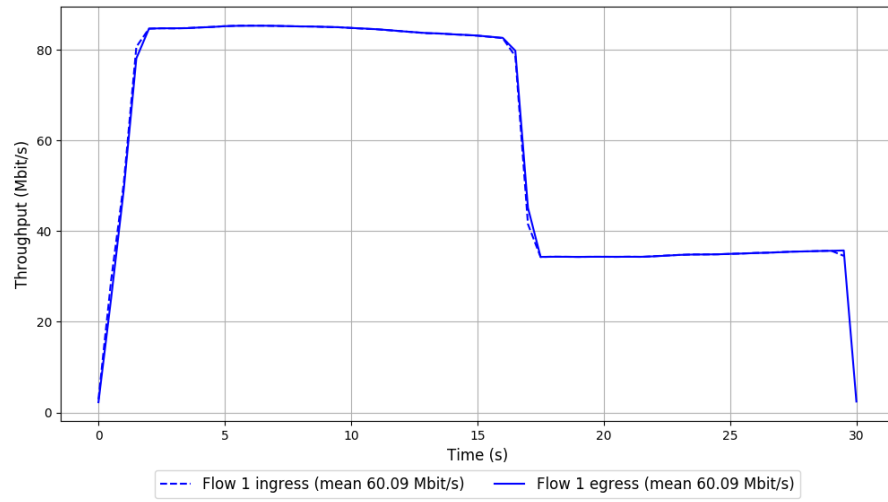
-- Flow 1:

Average throughput: 60.09 Mbit/s

95th percentile per-packet one-way delay: 50.756 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-30 21:17:33

End at: 2018-01-30 21:18:03

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 53.414 ms

Loss rate: 0.00%

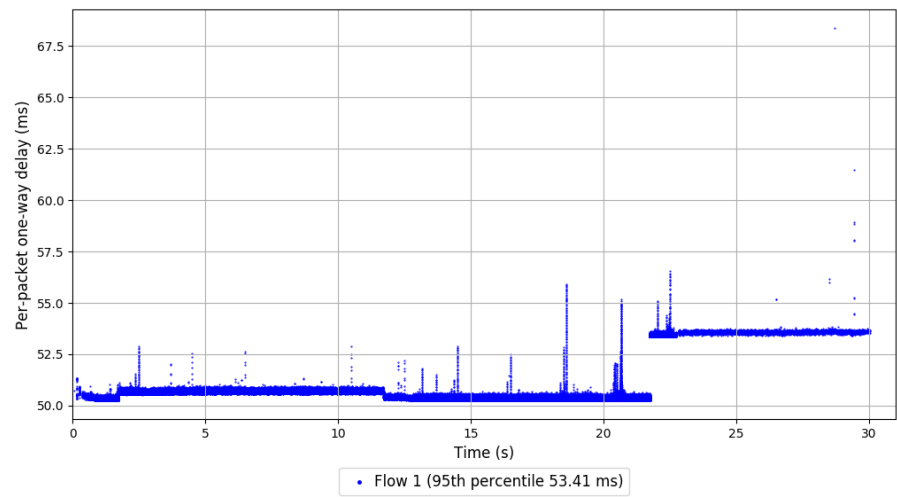
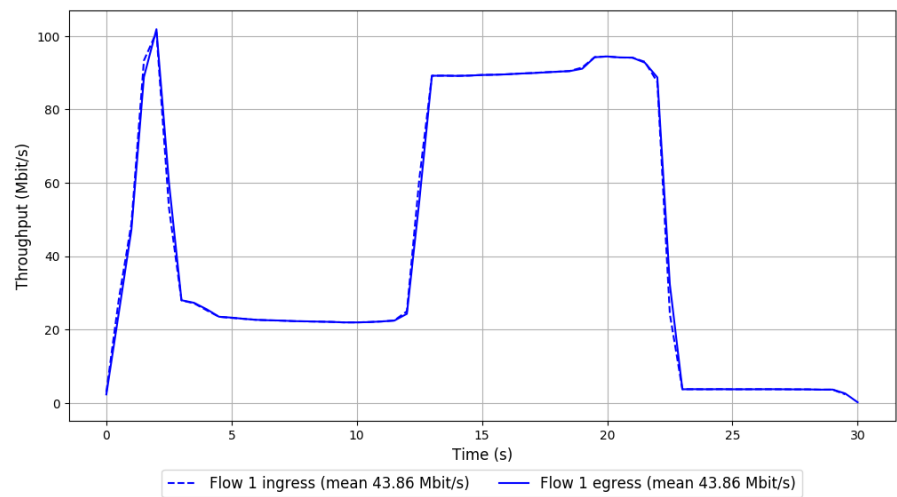
-- Flow 1:

Average throughput: 43.86 Mbit/s

95th percentile per-packet one-way delay: 53.414 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-30 21:31:41

End at: 2018-01-30 21:32:11

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.14 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.00%

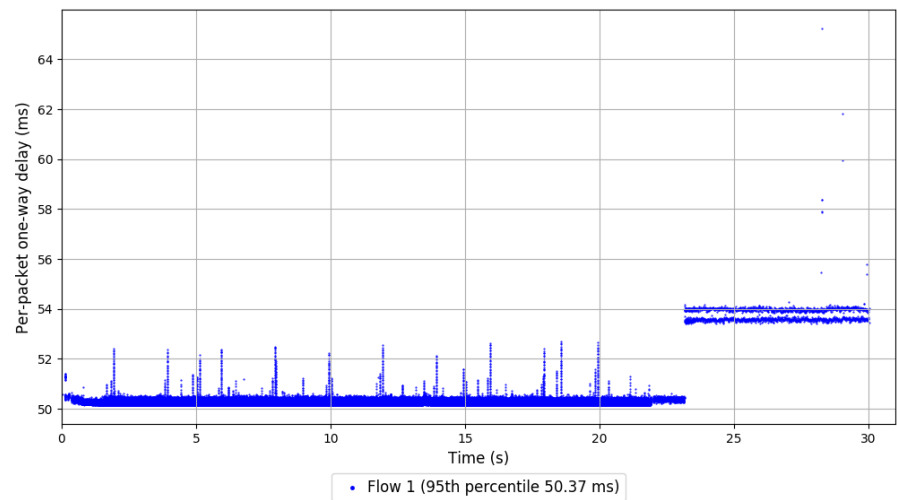
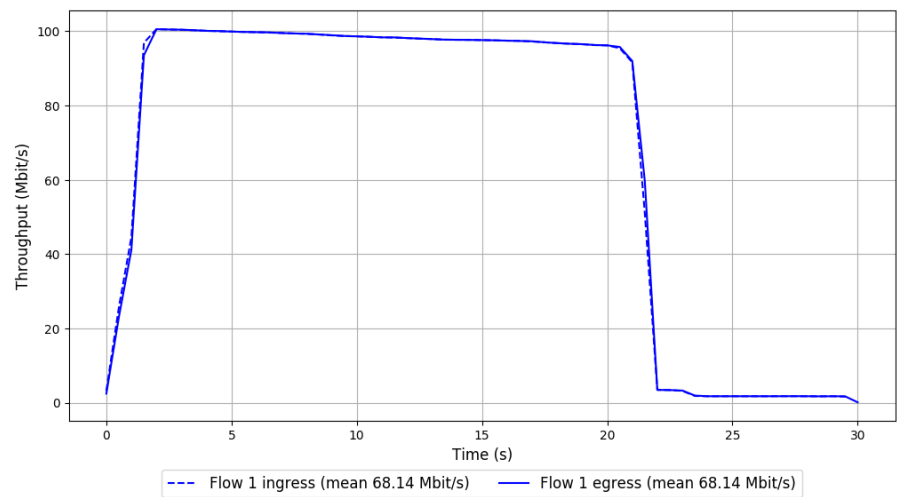
-- Flow 1:

Average throughput: 68.14 Mbit/s

95th percentile per-packet one-way delay: 50.373 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-30 21:45:28

End at: 2018-01-30 21:45:58

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.07 Mbit/s

95th percentile per-packet one-way delay: 53.409 ms

Loss rate: 0.00%

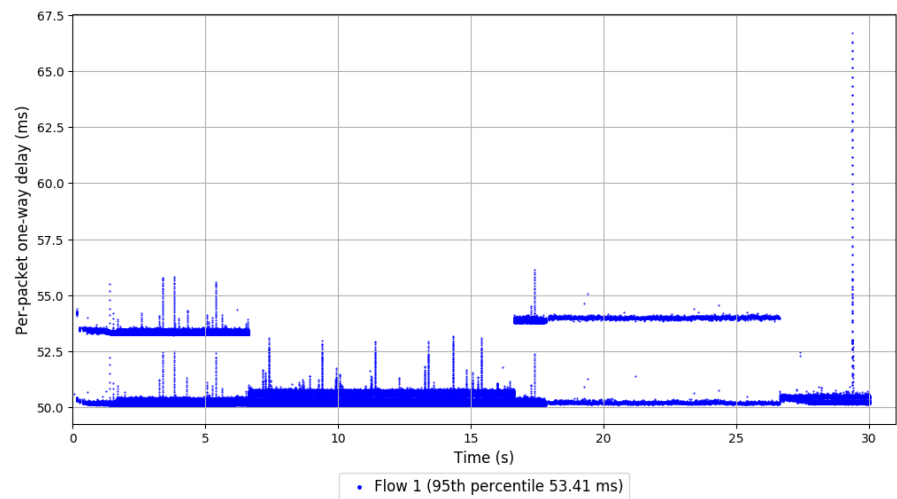
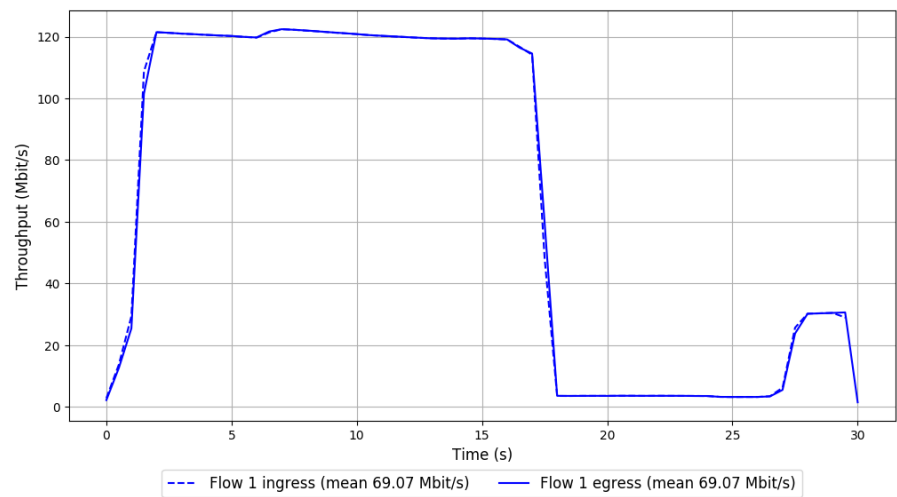
-- Flow 1:

Average throughput: 69.07 Mbit/s

95th percentile per-packet one-way delay: 53.409 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-30 21:59:16

End at: 2018-01-30 21:59:46

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.77 Mbit/s

95th percentile per-packet one-way delay: 53.805 ms

Loss rate: 0.00%

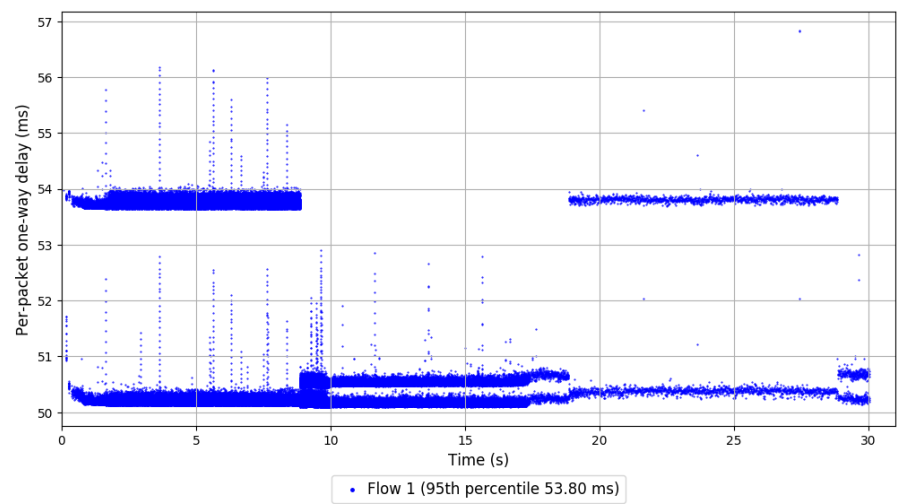
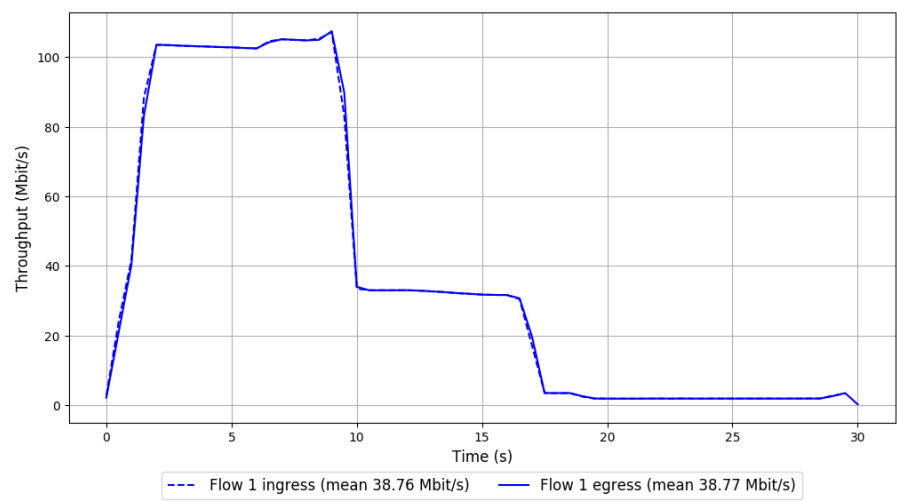
-- Flow 1:

Average throughput: 38.77 Mbit/s

95th percentile per-packet one-way delay: 53.805 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-30 22:13:11

End at: 2018-01-30 22:13:41

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.38 Mbit/s

95th percentile per-packet one-way delay: 53.787 ms

Loss rate: 0.00%

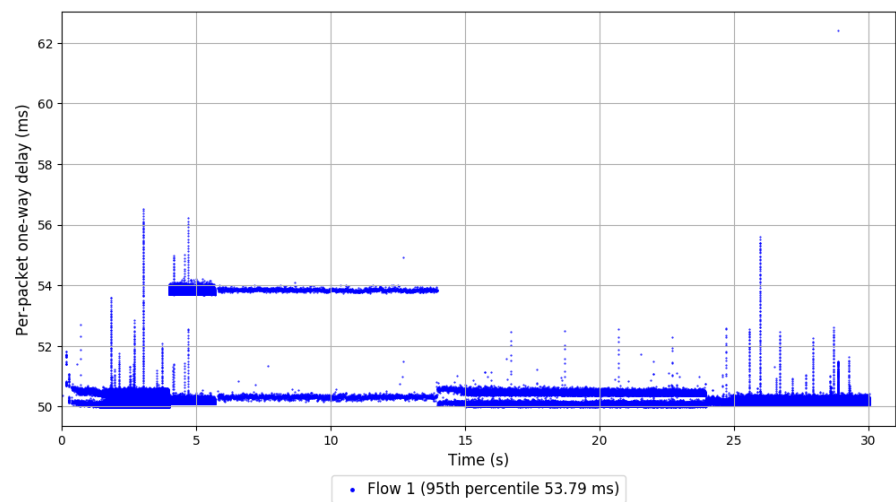
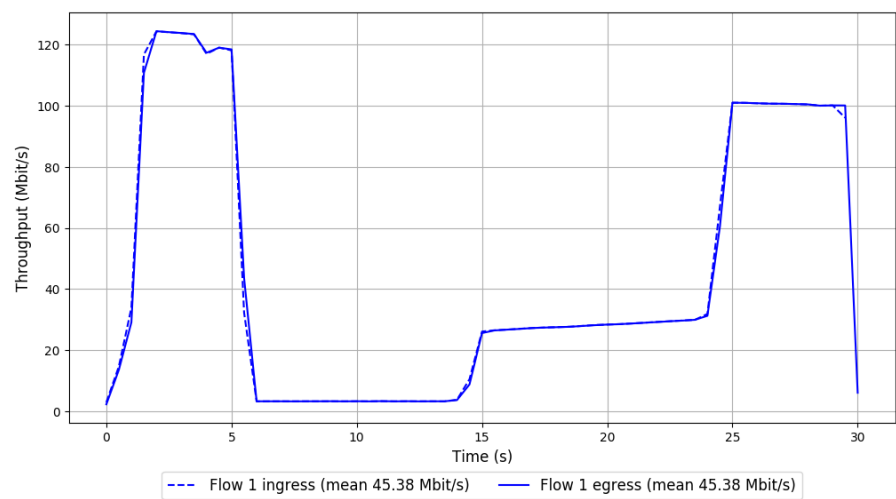
-- Flow 1:

Average throughput: 45.38 Mbit/s

95th percentile per-packet one-way delay: 53.787 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

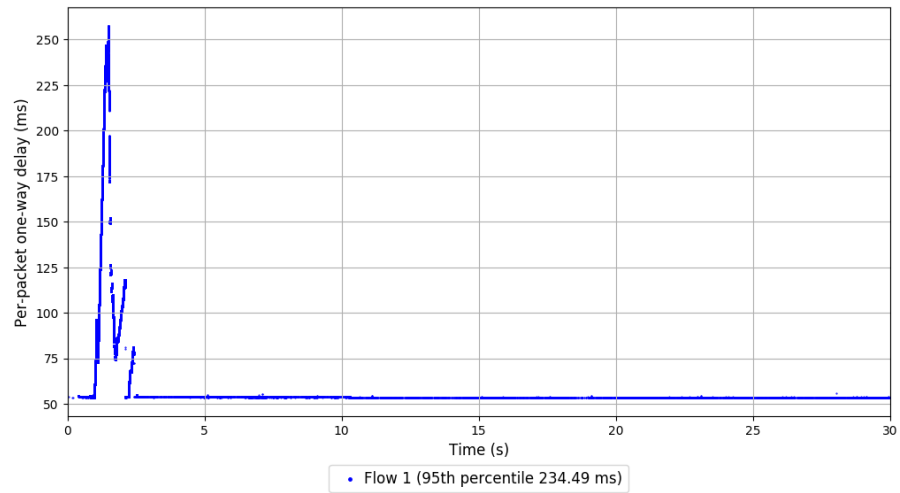
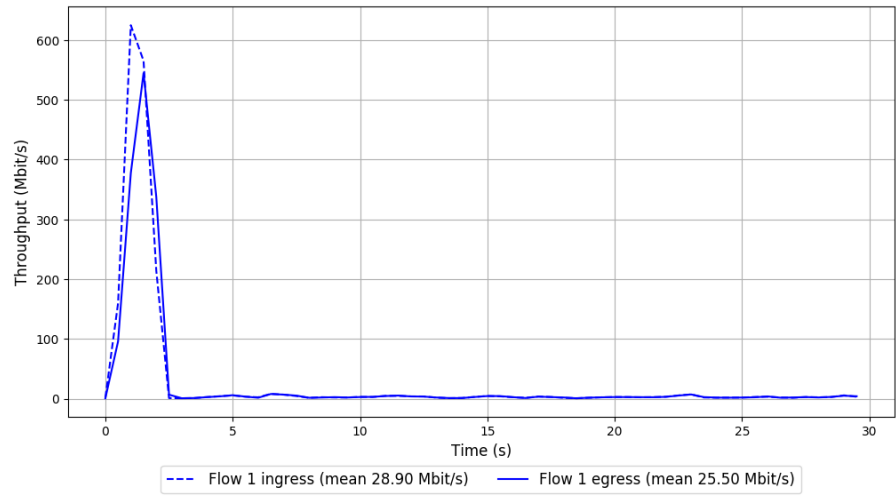


```
Run 1: Statistics of FillP

Start at: 2018-01-30 20:08:24
End at: 2018-01-30 20:08:54

# Below is generated by plot.py at 2018-01-31 00:08:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.50 Mbit/s
95th percentile per-packet one-way delay: 234.493 ms
Loss rate: 11.75%
-- Flow 1:
Average throughput: 25.50 Mbit/s
95th percentile per-packet one-way delay: 234.493 ms
Loss rate: 11.75%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-30 20:22:03

End at: 2018-01-30 20:22:33

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 164.048 ms

Loss rate: 6.56%

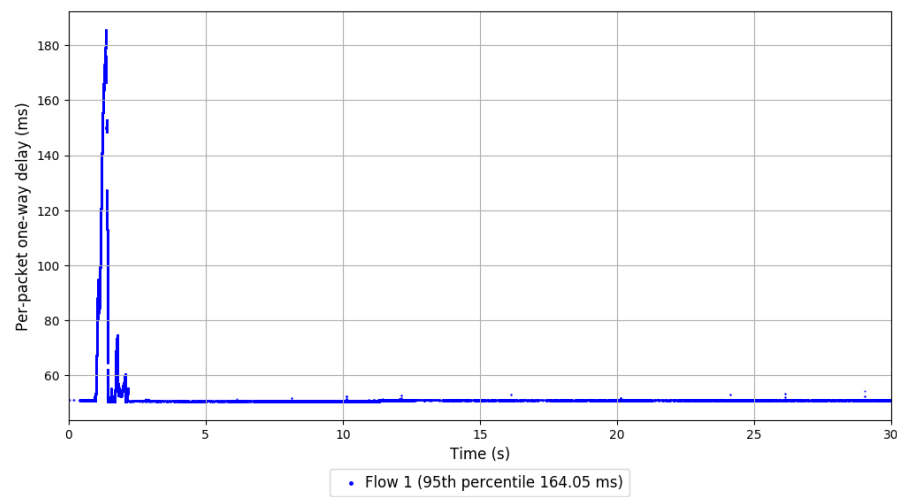
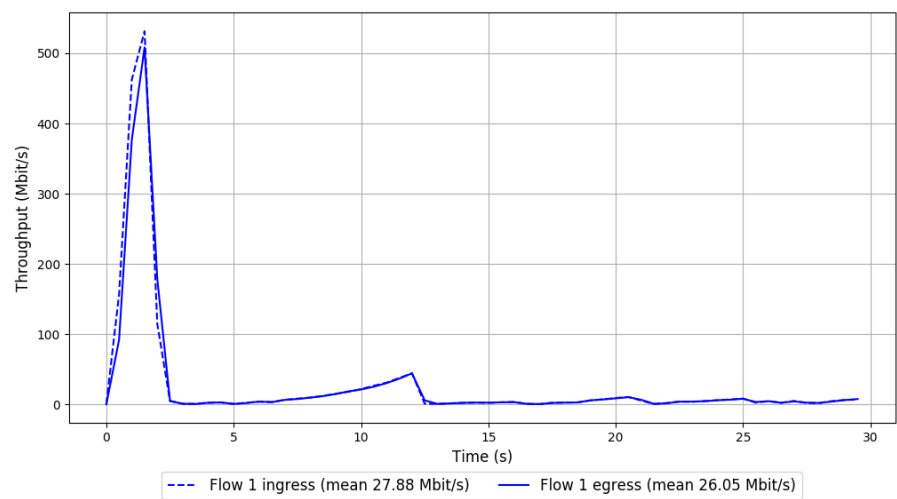
-- Flow 1:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 164.048 ms

Loss rate: 6.56%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-30 20:35:32

End at: 2018-01-30 20:36:02

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 181.503 ms

Loss rate: 9.63%

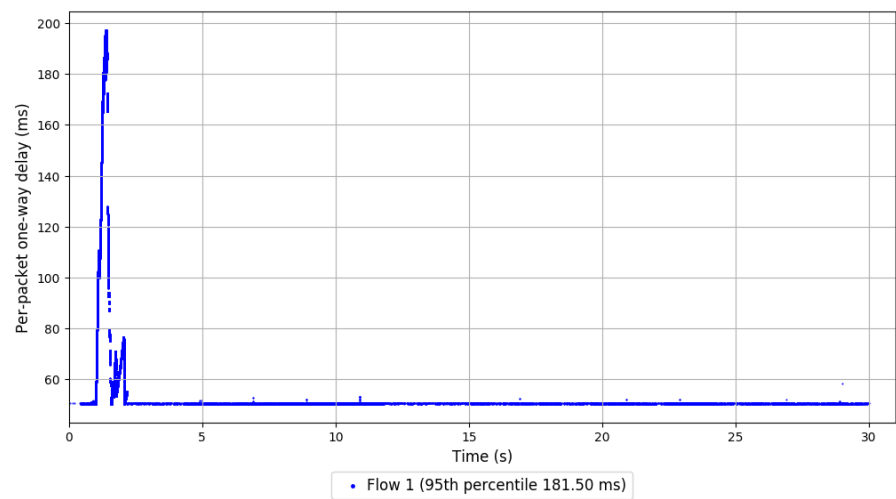
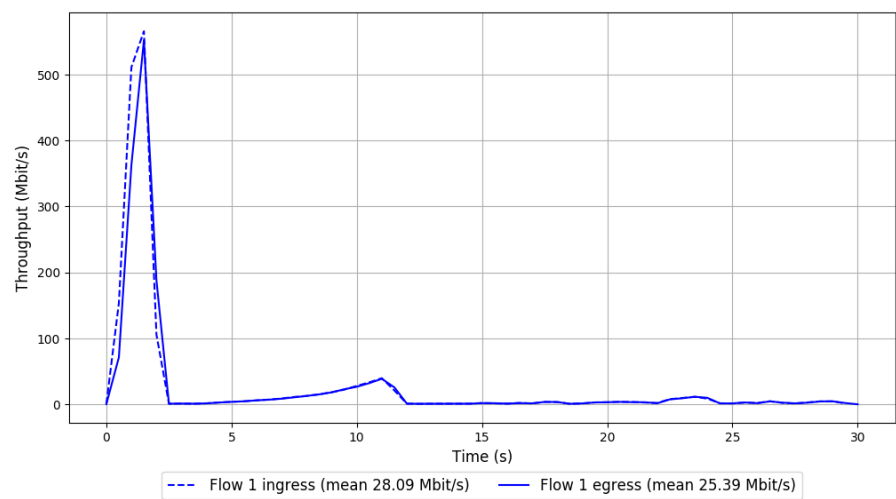
-- Flow 1:

Average throughput: 25.39 Mbit/s

95th percentile per-packet one-way delay: 181.503 ms

Loss rate: 9.63%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-30 20:49:19

End at: 2018-01-30 20:49:49

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 251.055 ms

Loss rate: 16.19%

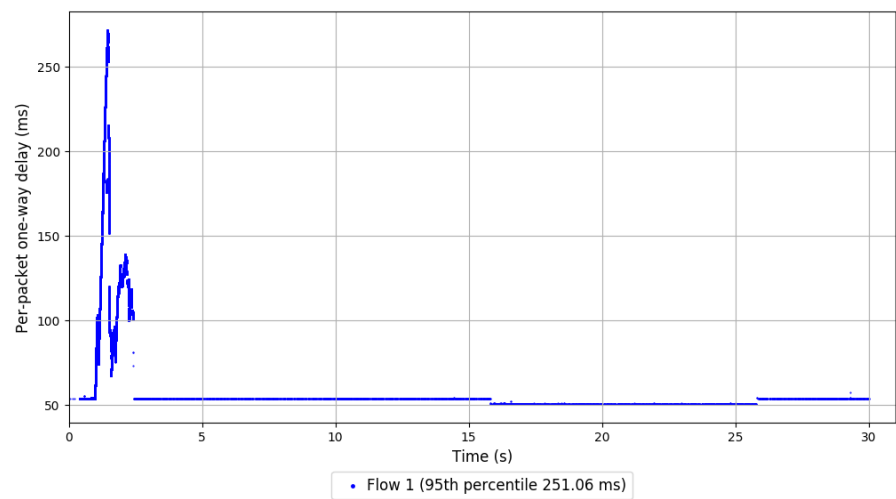
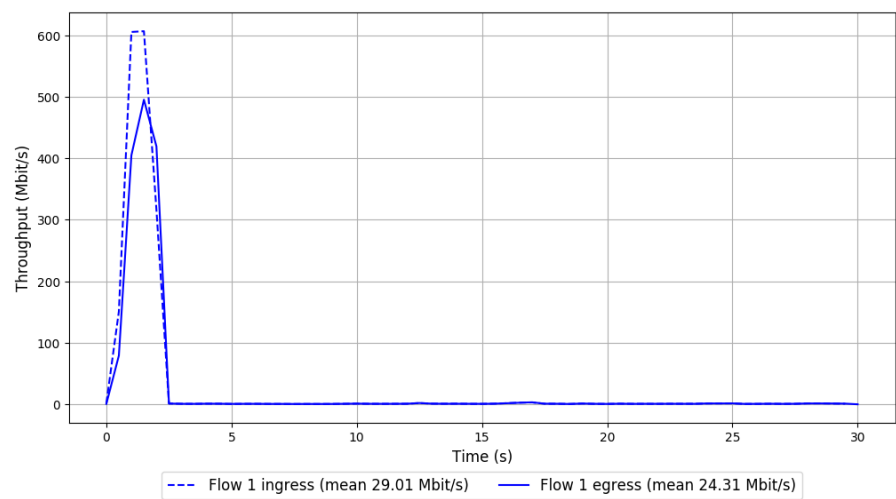
-- Flow 1:

Average throughput: 24.31 Mbit/s

95th percentile per-packet one-way delay: 251.055 ms

Loss rate: 16.19%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-30 21:03:10

End at: 2018-01-30 21:03:40

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.65 Mbit/s

95th percentile per-packet one-way delay: 236.627 ms

Loss rate: 12.49%

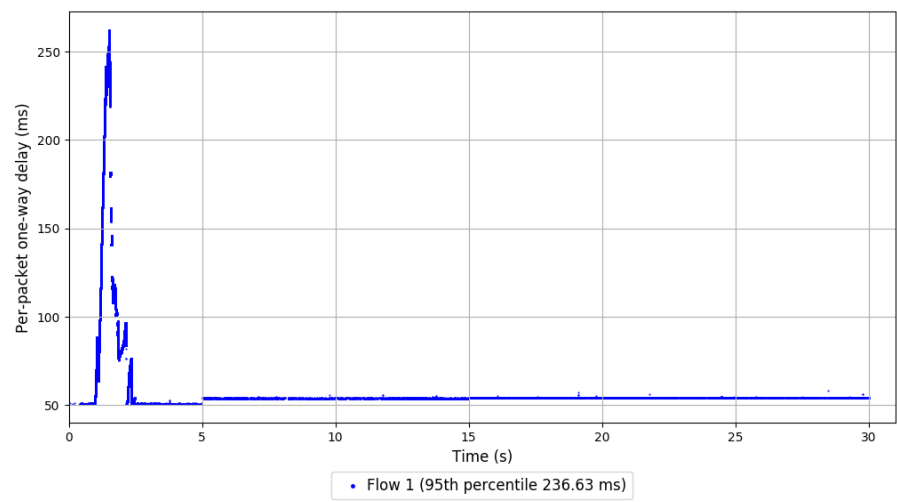
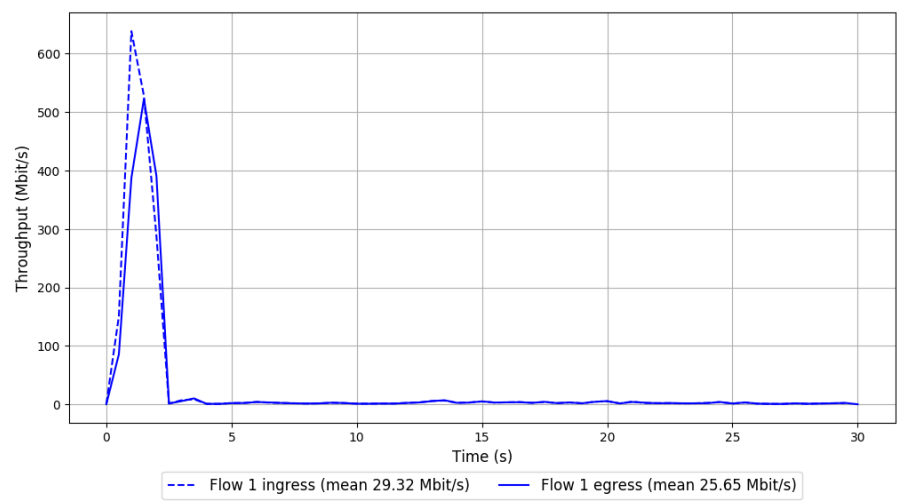
-- Flow 1:

Average throughput: 25.65 Mbit/s

95th percentile per-packet one-way delay: 236.627 ms

Loss rate: 12.49%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-30 21:16:54

End at: 2018-01-30 21:17:24

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.04 Mbit/s

95th percentile per-packet one-way delay: 172.114 ms

Loss rate: 9.62%

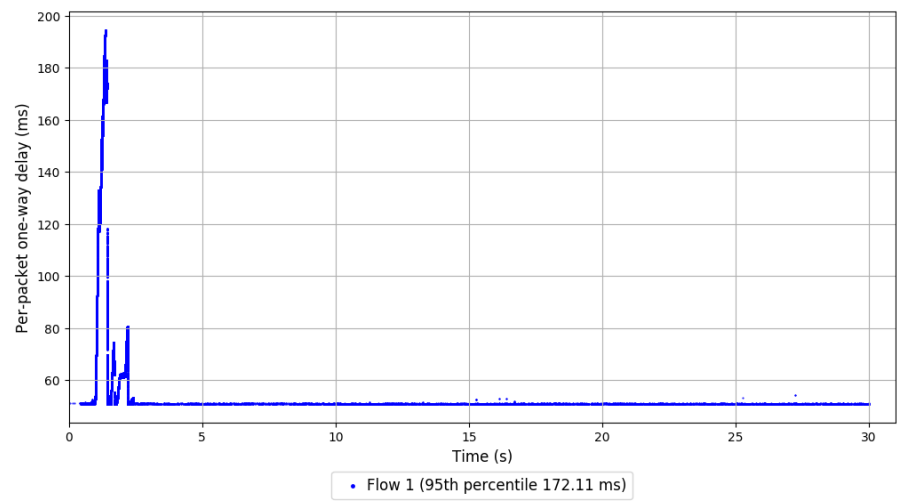
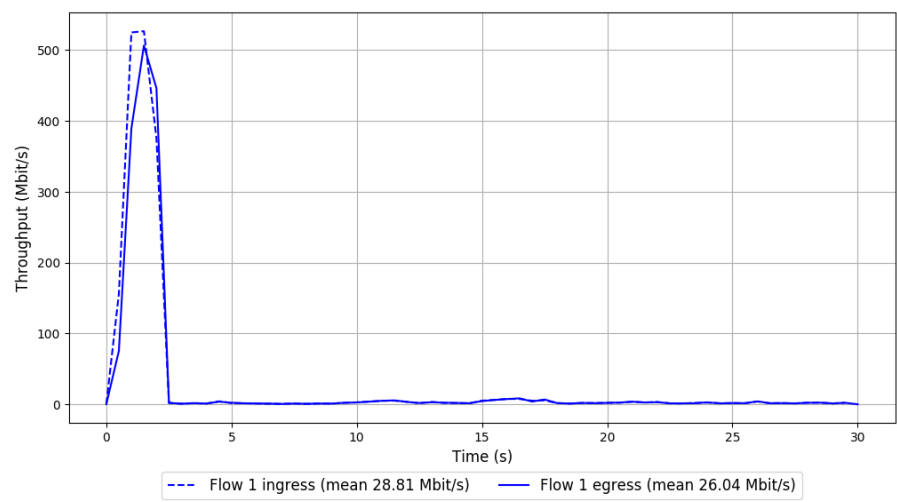
-- Flow 1:

Average throughput: 26.04 Mbit/s

95th percentile per-packet one-way delay: 172.114 ms

Loss rate: 9.62%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-30 21:31:03

End at: 2018-01-30 21:31:33

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 246.006 ms

Loss rate: 11.92%

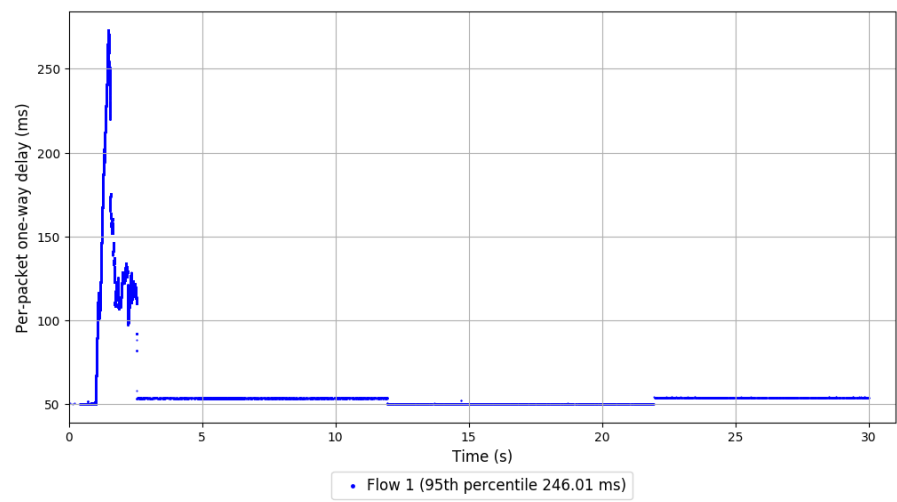
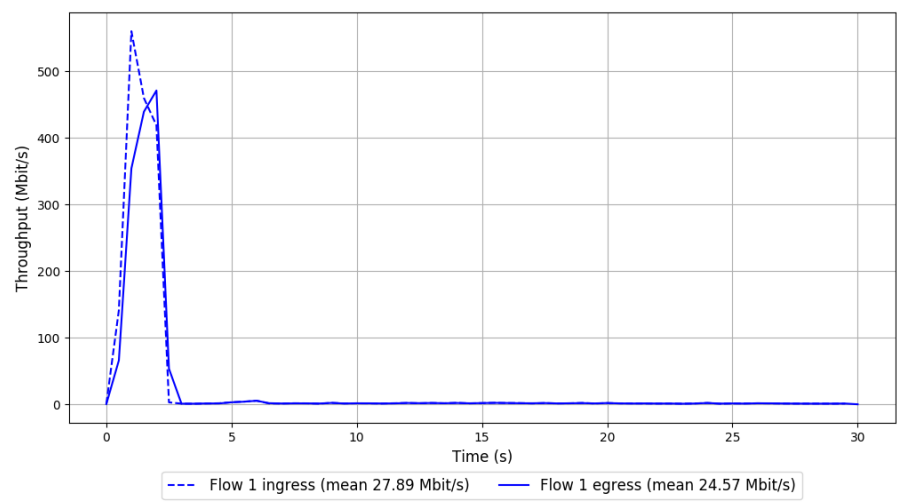
-- Flow 1:

Average throughput: 24.57 Mbit/s

95th percentile per-packet one-way delay: 246.006 ms

Loss rate: 11.92%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-30 21:44:49

End at: 2018-01-30 21:45:19

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 253.569 ms

Loss rate: 14.63%

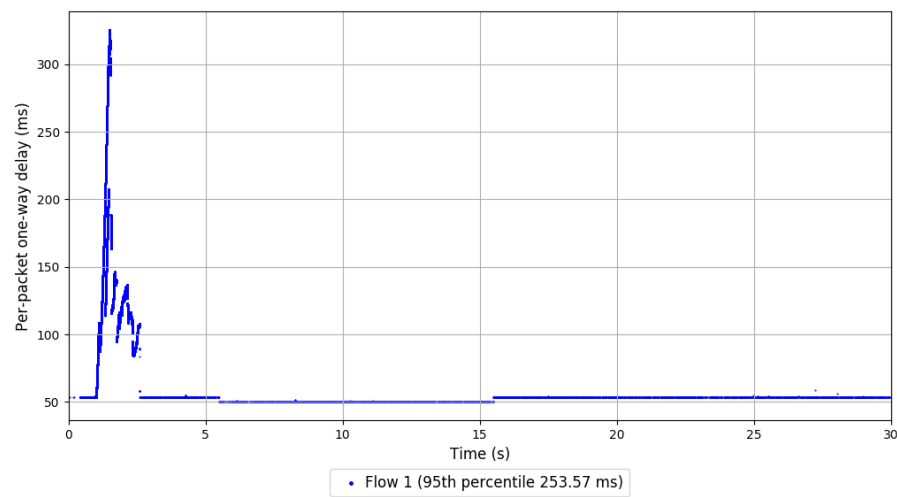
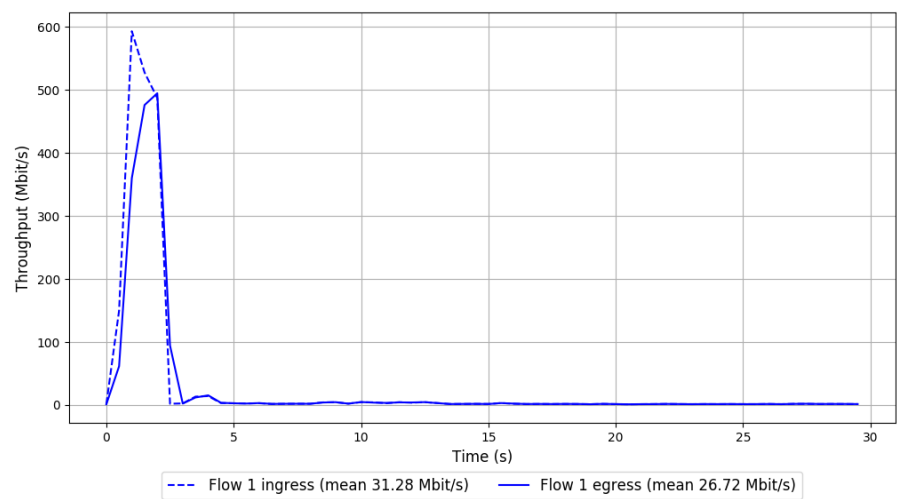
-- Flow 1:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 253.569 ms

Loss rate: 14.63%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-30 21:58:37

End at: 2018-01-30 21:59:07

Below is generated by plot.py at 2018-01-31 00:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.49 Mbit/s

95th percentile per-packet one-way delay: 183.717 ms

Loss rate: 10.62%

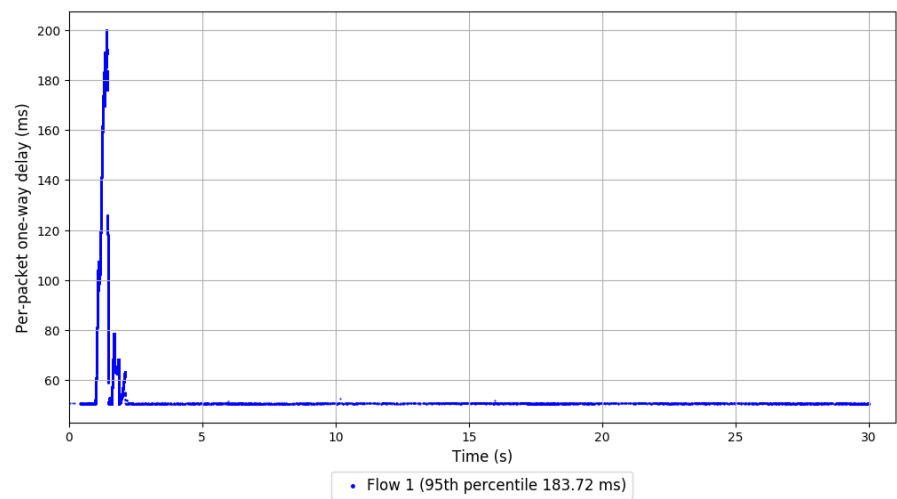
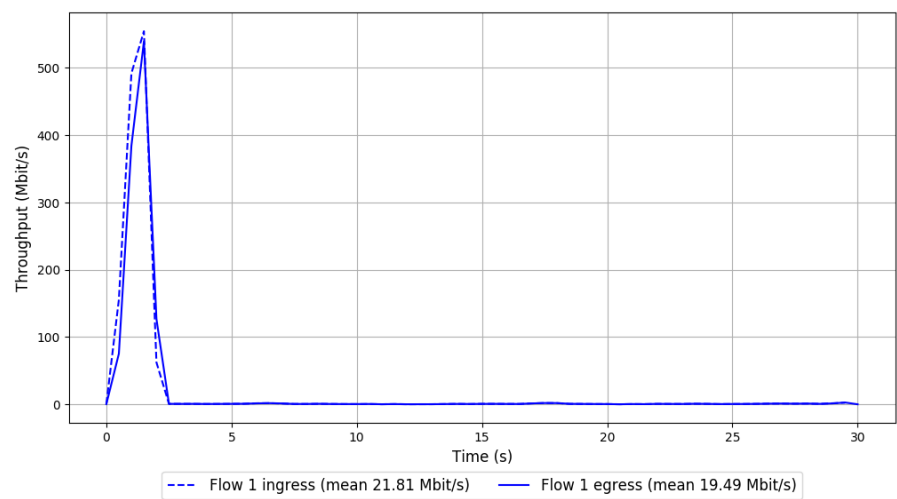
-- Flow 1:

Average throughput: 19.49 Mbit/s

95th percentile per-packet one-way delay: 183.717 ms

Loss rate: 10.62%

Run 9: Report of FillP — Data Link

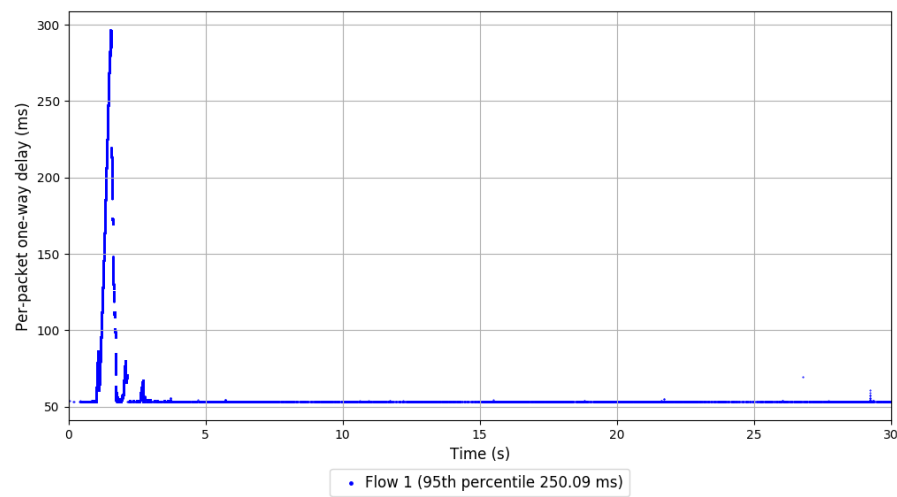
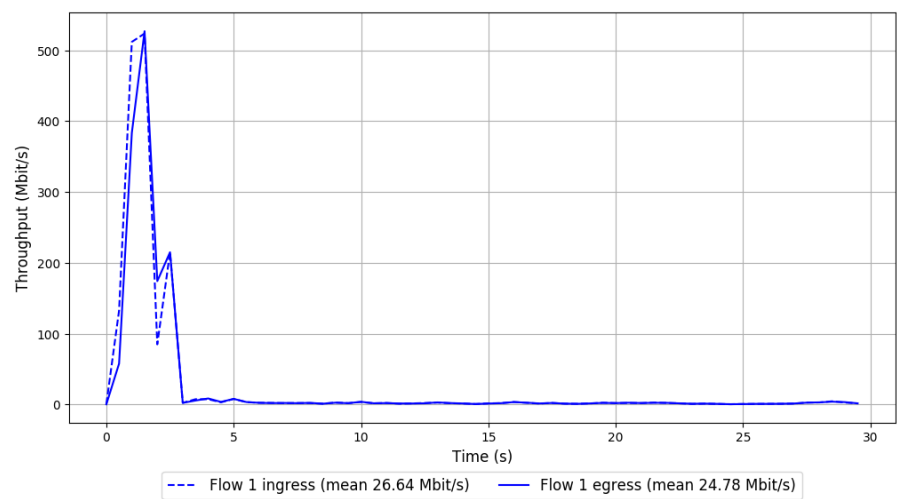


```
Run 10: Statistics of FillP

Start at: 2018-01-30 22:12:32
End at: 2018-01-30 22:13:02

# Below is generated by plot.py at 2018-01-31 00:08:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 250.092 ms
Loss rate: 6.99%
-- Flow 1:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 250.092 ms
Loss rate: 6.99%
```

Run 10: Report of FillP — Data Link

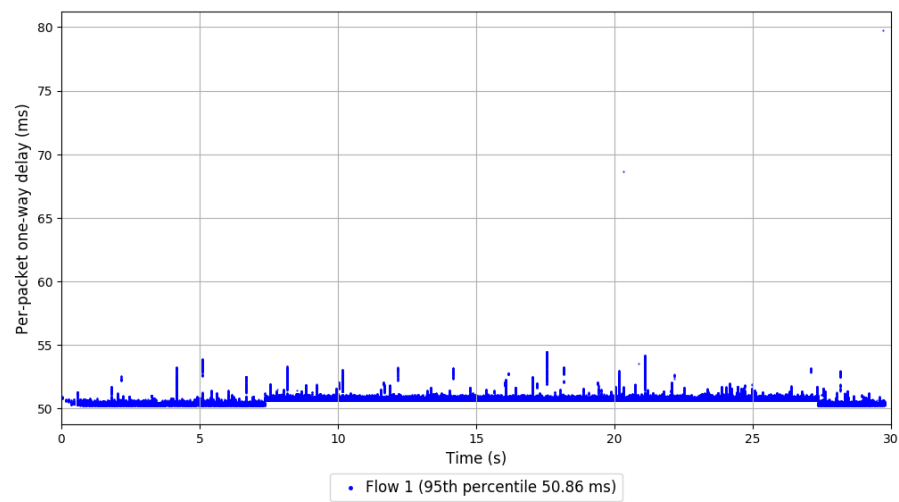
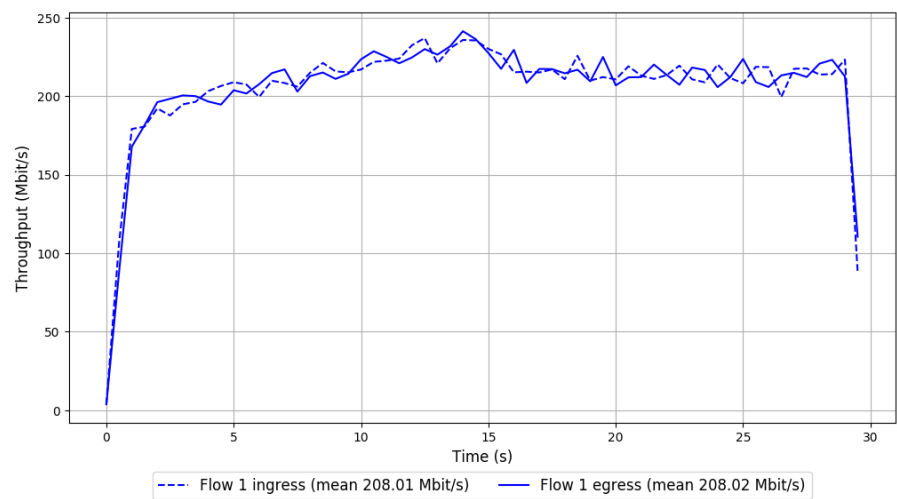


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-30 20:03:37
End at: 2018-01-30 20:04:07

# Below is generated by plot.py at 2018-01-31 00:11:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.02 Mbit/s
95th percentile per-packet one-way delay: 50.859 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.02 Mbit/s
95th percentile per-packet one-way delay: 50.859 ms
Loss rate: 0.00%
```

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

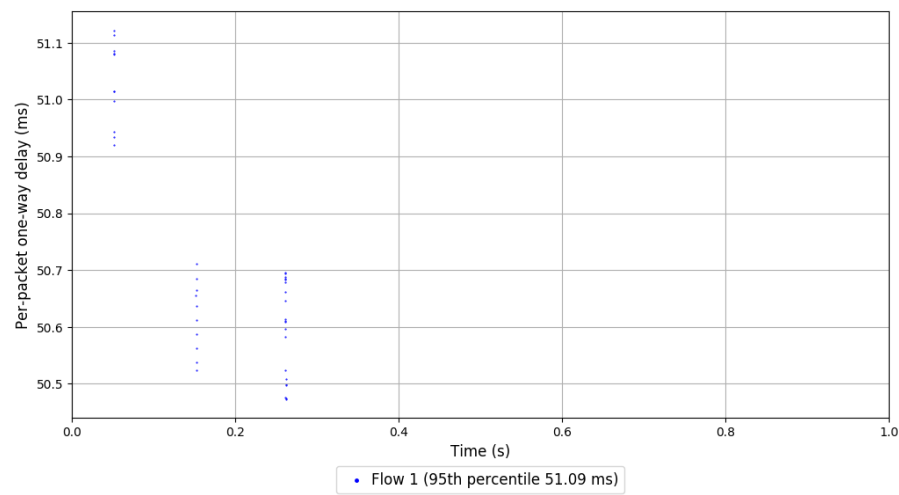
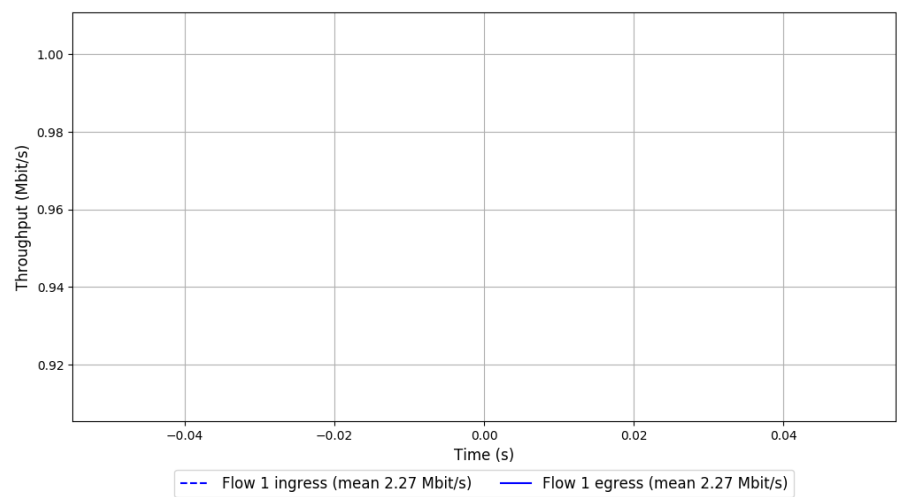


Run 2: Statistics of Indigo-1-32

Start at: 2018-01-30 20:17:32

End at: 2018-01-30 20:18:02

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

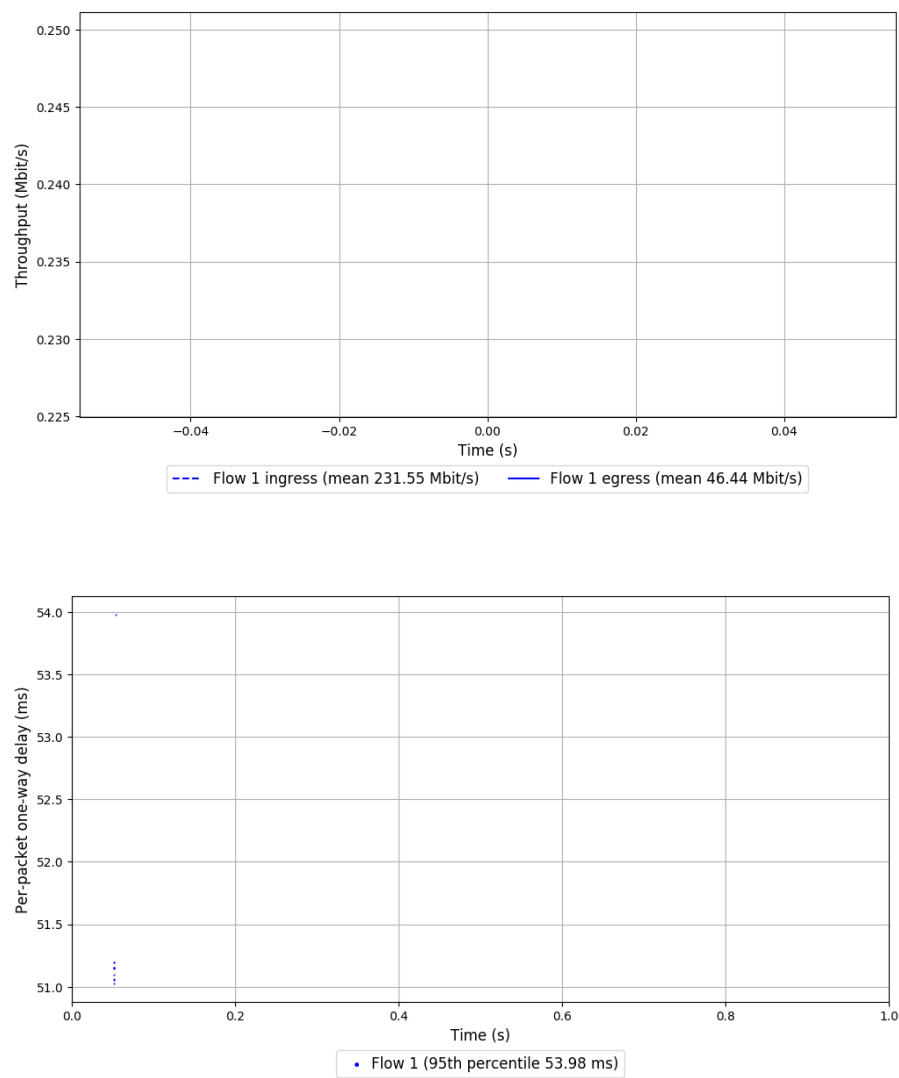


Run 3: Statistics of Indigo-1-32

Start at: 2018-01-30 20:31:04

End at: 2018-01-30 20:31:34

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

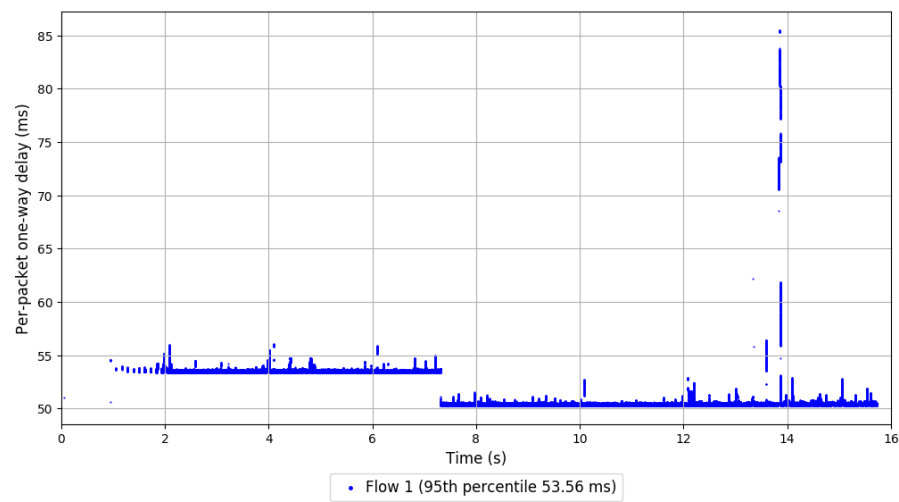
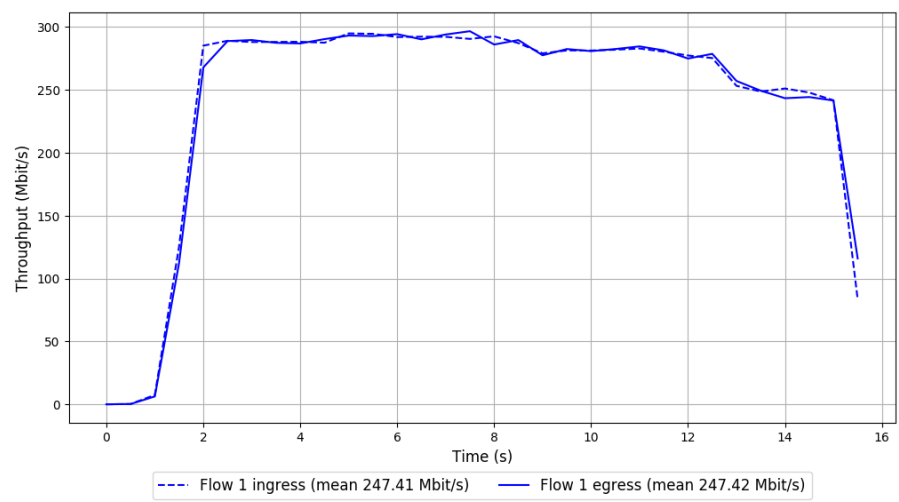


Run 4: Statistics of Indigo-1-32

Start at: 2018-01-30 20:44:43

End at: 2018-01-30 20:45:13

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

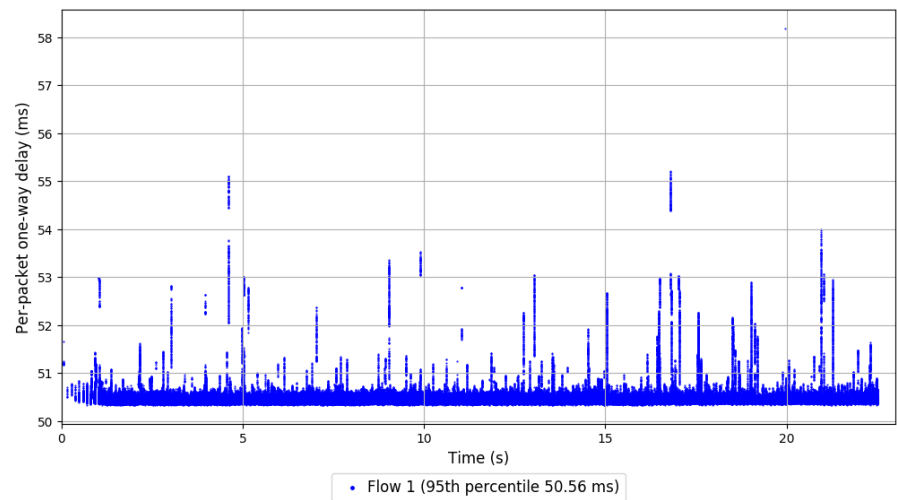
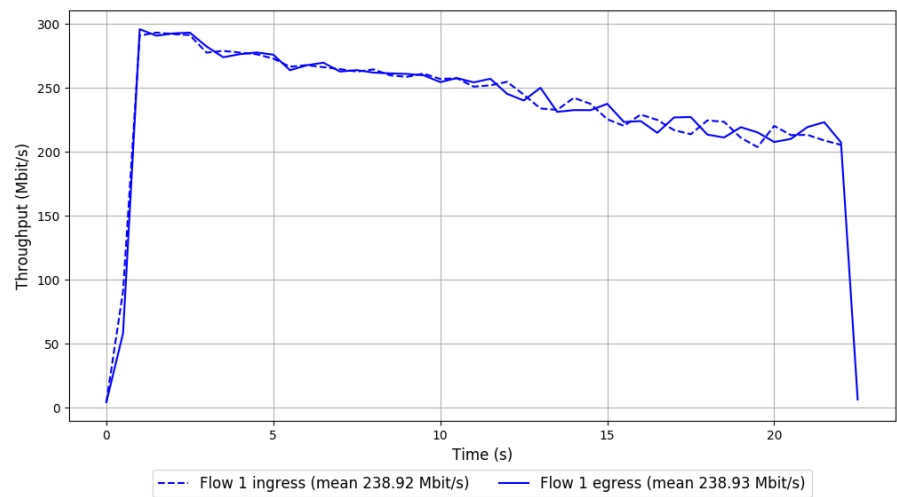


Run 5: Statistics of Indigo-1-32

Start at: 2018-01-30 20:58:31

End at: 2018-01-30 20:59:01

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

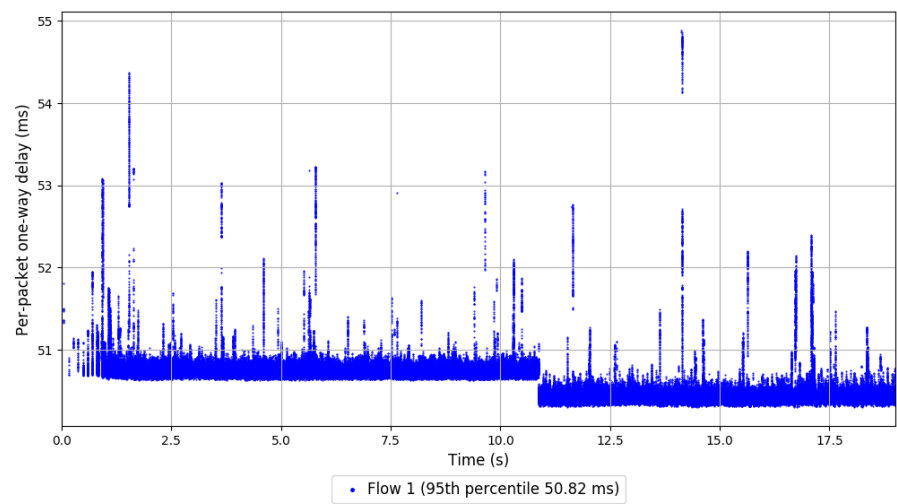
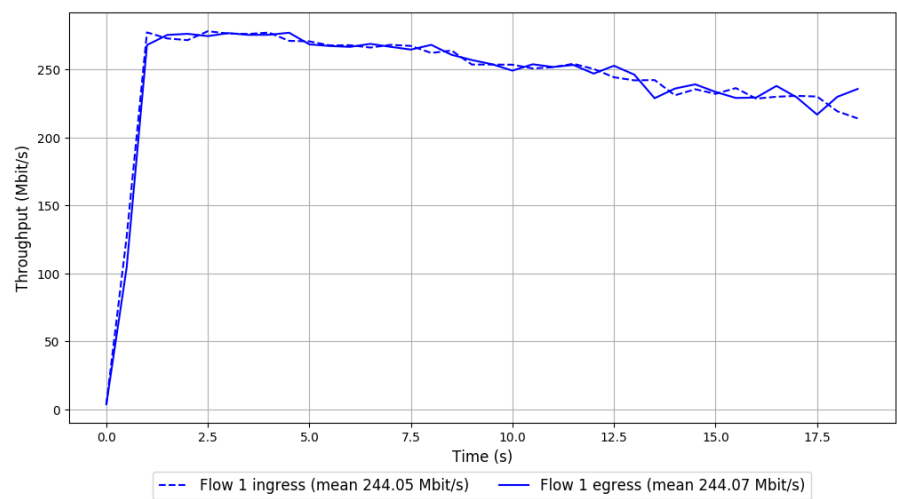


Run 6: Statistics of Indigo-1-32

Start at: 2018-01-30 21:12:13

End at: 2018-01-30 21:12:43

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-30 21:26:20

End at: 2018-01-30 21:26:50

Below is generated by plot.py at 2018-01-31 00:11:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.85 Mbit/s

95th percentile per-packet one-way delay: 50.793 ms

Loss rate: 0.00%

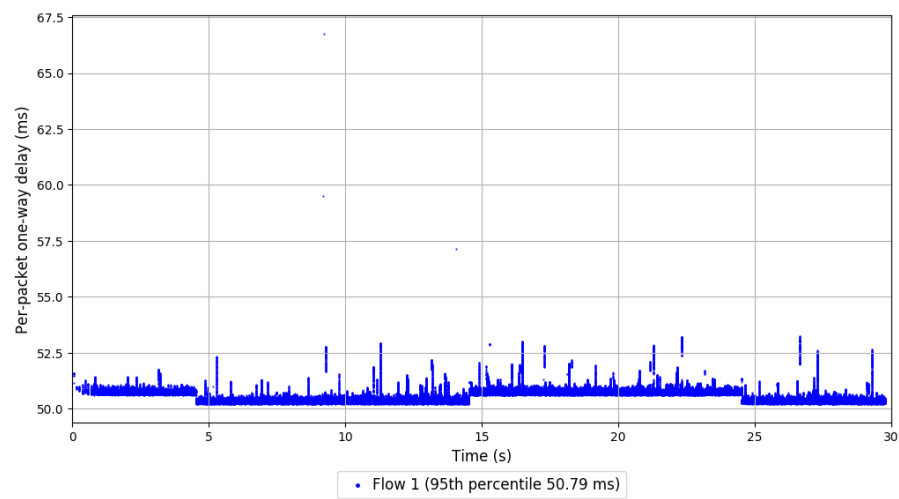
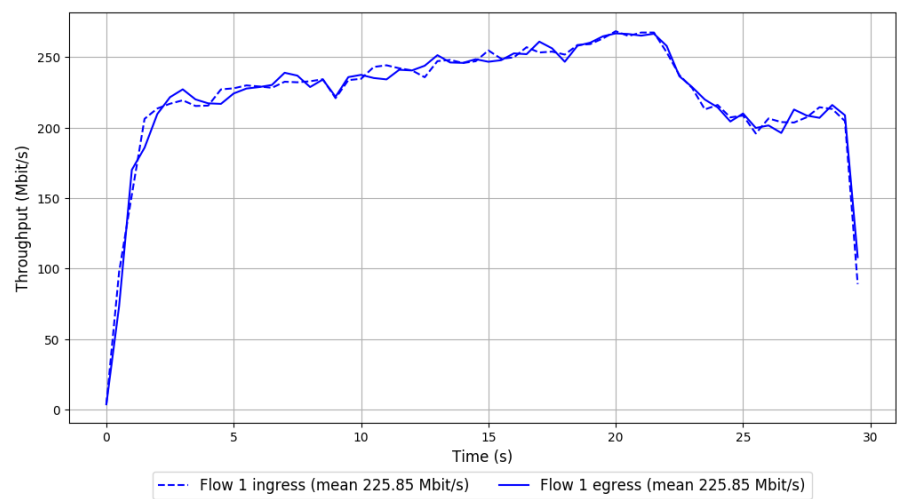
-- Flow 1:

Average throughput: 225.85 Mbit/s

95th percentile per-packet one-way delay: 50.793 ms

Loss rate: 0.00%

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

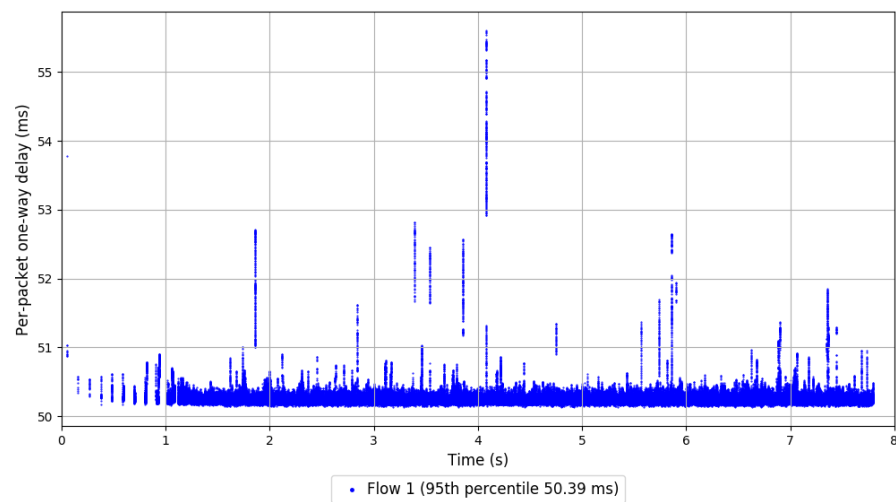
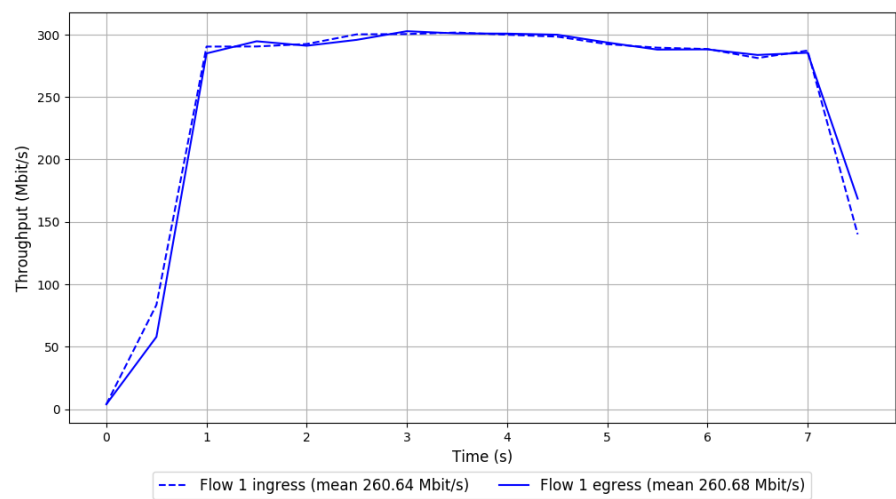


Run 8: Statistics of Indigo-1-32

Start at: 2018-01-30 21:40:17

End at: 2018-01-30 21:40:47

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

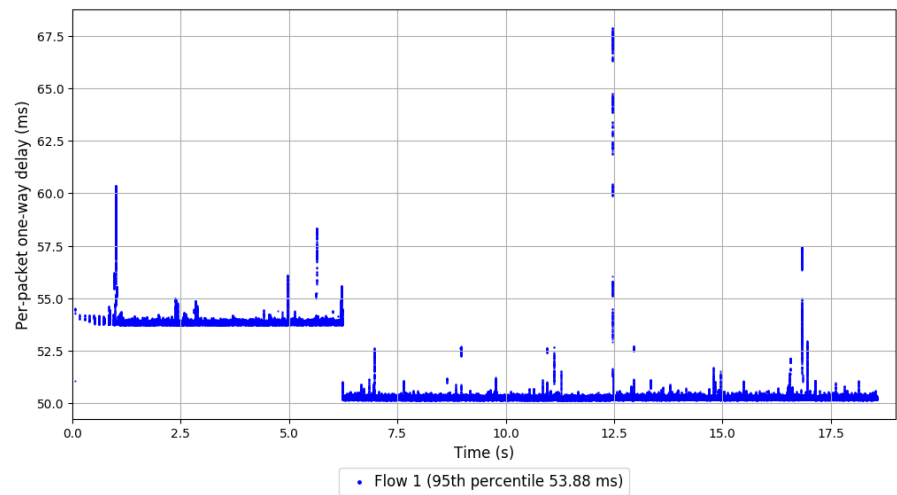
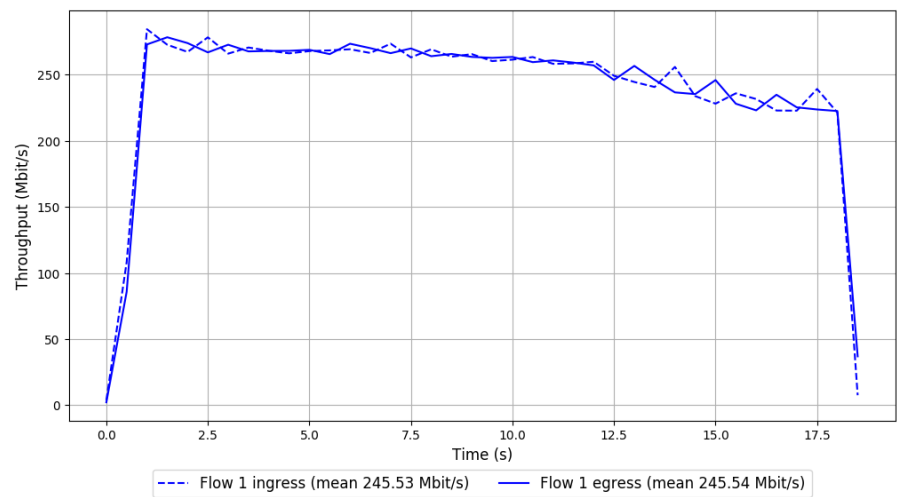


Run 9: Statistics of Indigo-1-32

Start at: 2018-01-30 21:53:57

End at: 2018-01-30 21:54:27

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

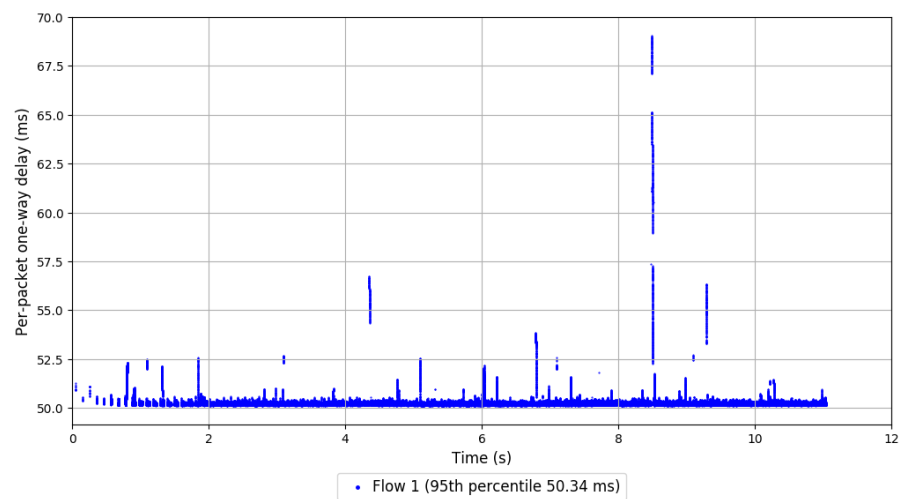
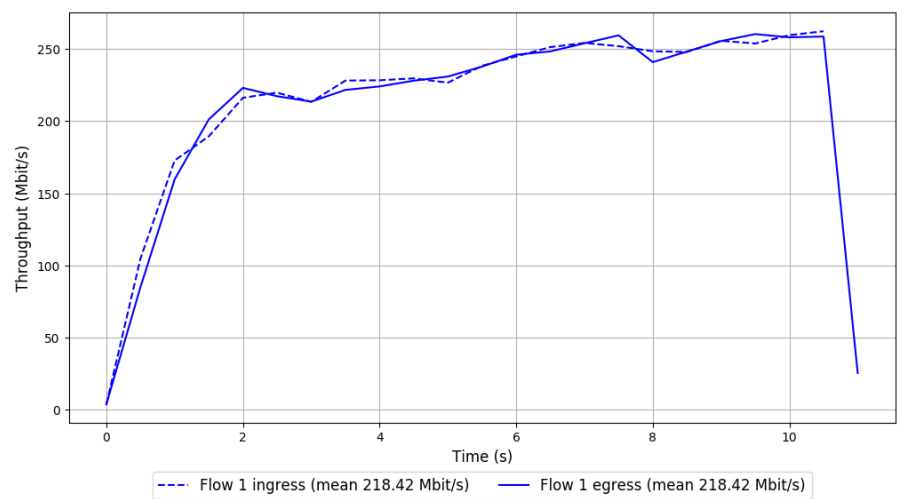


Run 10: Statistics of Indigo-1-32

Start at: 2018-01-30 22:07:51

End at: 2018-01-30 22:08:21

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

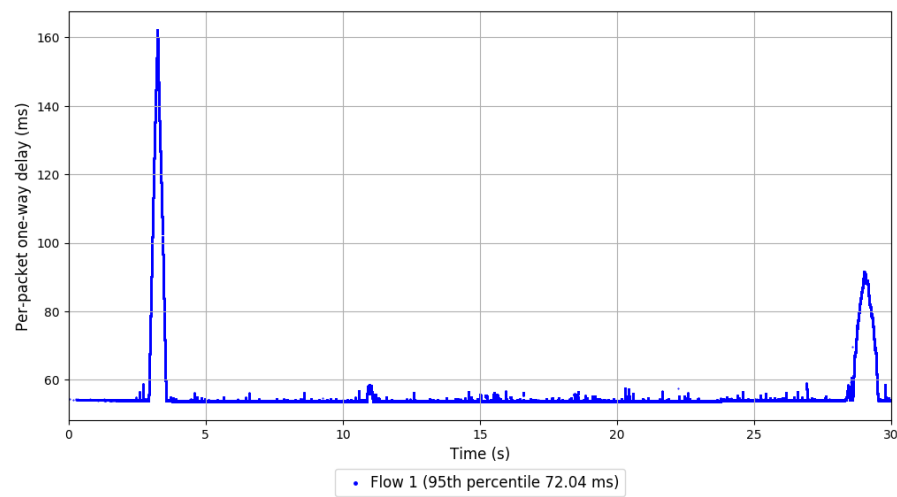
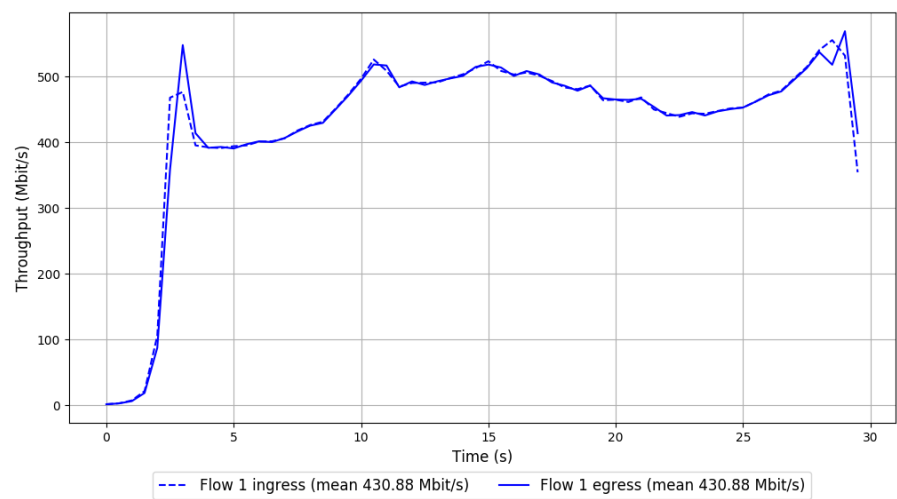


```
Run 1: Statistics of Vivace-latency

Start at: 2018-01-30 20:09:41
End at: 2018-01-30 20:10:11

# Below is generated by plot.py at 2018-01-31 00:17:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 430.88 Mbit/s
95th percentile per-packet one-way delay: 72.039 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 430.88 Mbit/s
95th percentile per-packet one-way delay: 72.039 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-30 20:23:22

End at: 2018-01-30 20:23:52

Below is generated by plot.py at 2018-01-31 00:17:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.74 Mbit/s

95th percentile per-packet one-way delay: 55.405 ms

Loss rate: 0.00%

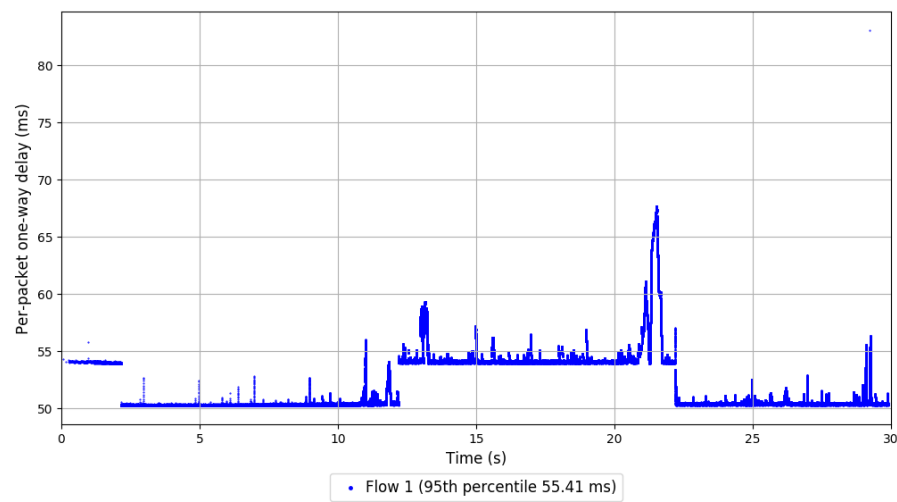
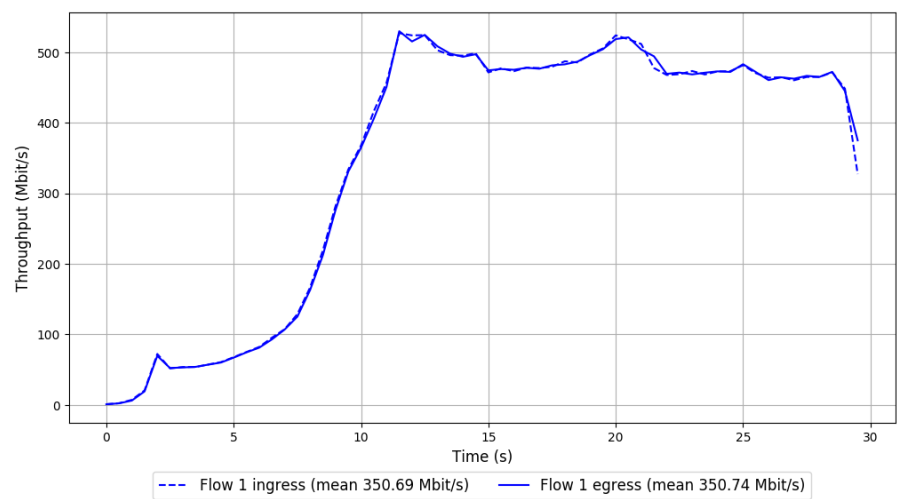
-- Flow 1:

Average throughput: 350.74 Mbit/s

95th percentile per-packet one-way delay: 55.405 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-30 20:36:53

End at: 2018-01-30 20:37:23

Below is generated by plot.py at 2018-01-31 00:17:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.75 Mbit/s

95th percentile per-packet one-way delay: 54.432 ms

Loss rate: 0.00%

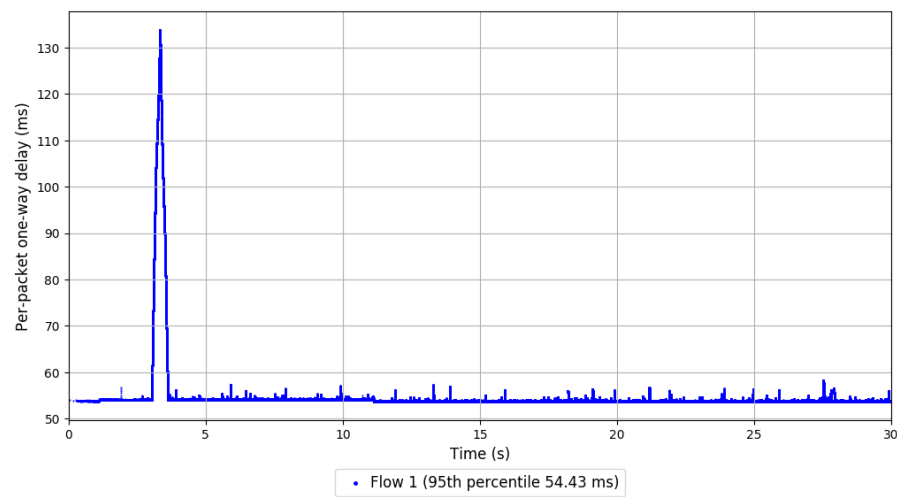
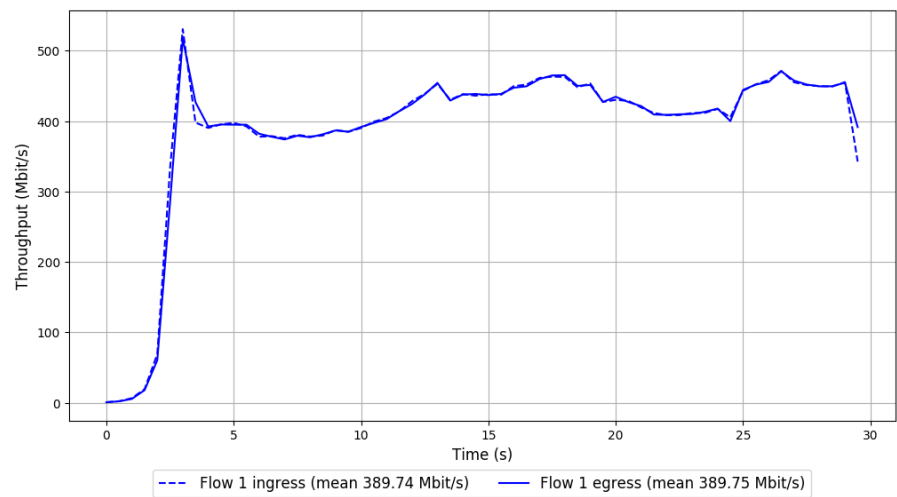
-- Flow 1:

Average throughput: 389.75 Mbit/s

95th percentile per-packet one-way delay: 54.432 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-30 20:50:39

End at: 2018-01-30 20:51:09

Below is generated by plot.py at 2018-01-31 00:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.90 Mbit/s

95th percentile per-packet one-way delay: 52.452 ms

Loss rate: 0.00%

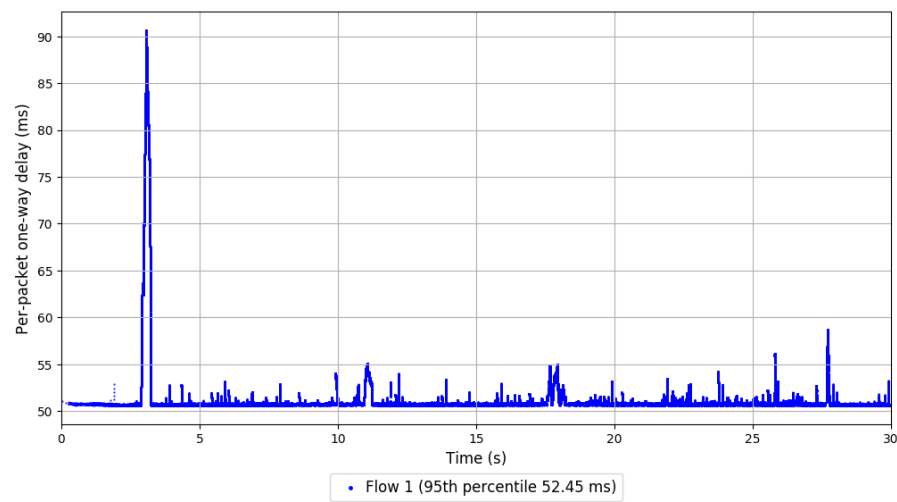
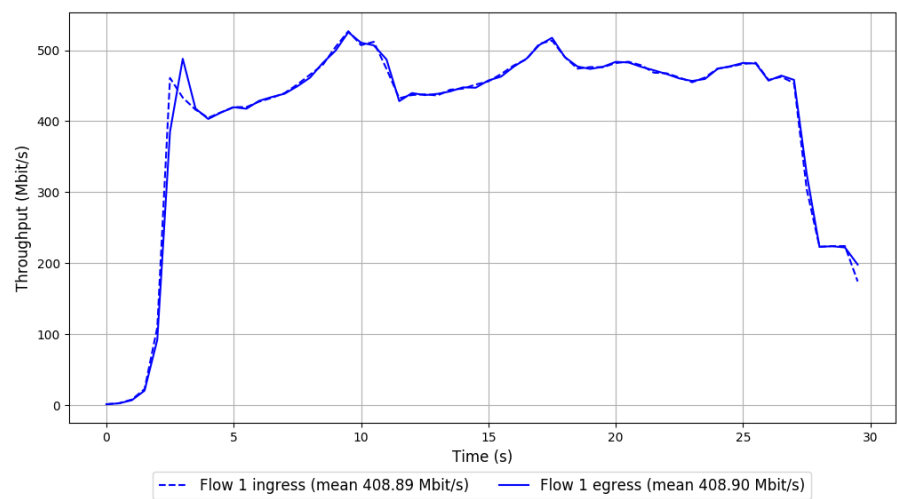
-- Flow 1:

Average throughput: 408.90 Mbit/s

95th percentile per-packet one-way delay: 52.452 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-30 21:04:30

End at: 2018-01-30 21:05:00

Below is generated by plot.py at 2018-01-31 00:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.70 Mbit/s

95th percentile per-packet one-way delay: 53.891 ms

Loss rate: 0.00%

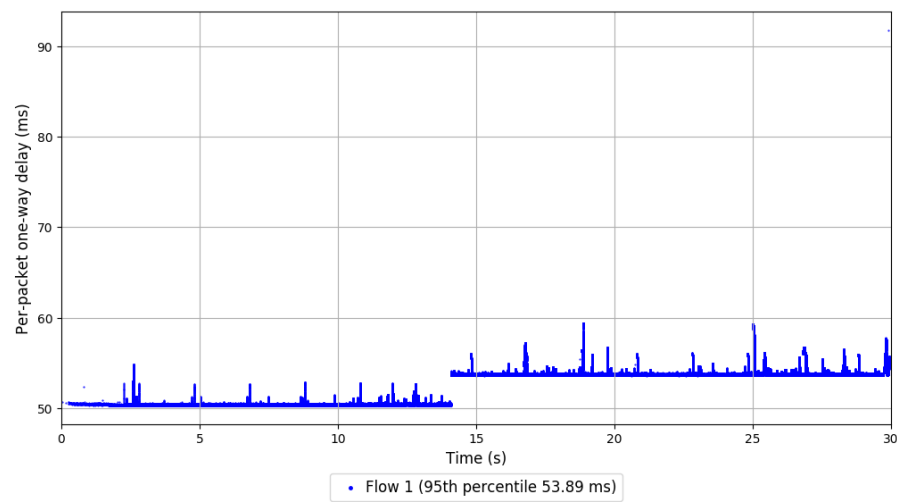
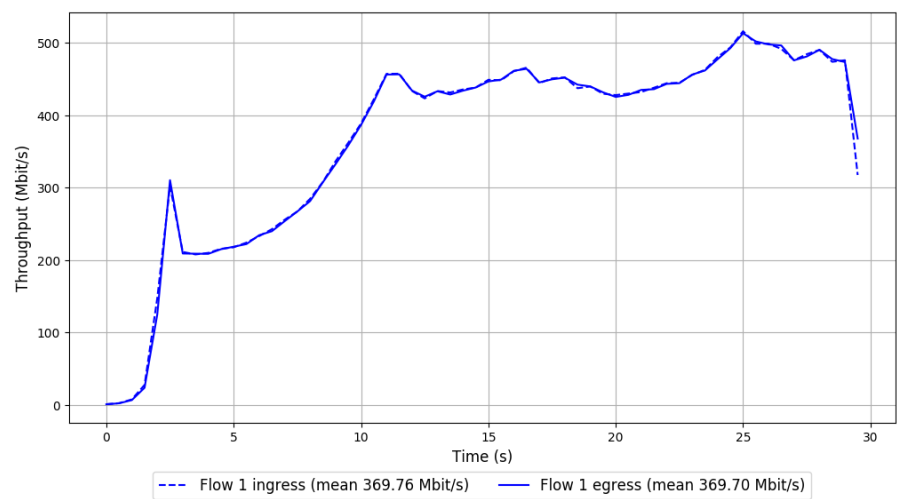
-- Flow 1:

Average throughput: 369.70 Mbit/s

95th percentile per-packet one-way delay: 53.891 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-30 21:18:13

End at: 2018-01-30 21:18:43

Below is generated by plot.py at 2018-01-31 00:18:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.89 Mbit/s

95th percentile per-packet one-way delay: 54.853 ms

Loss rate: 0.17%

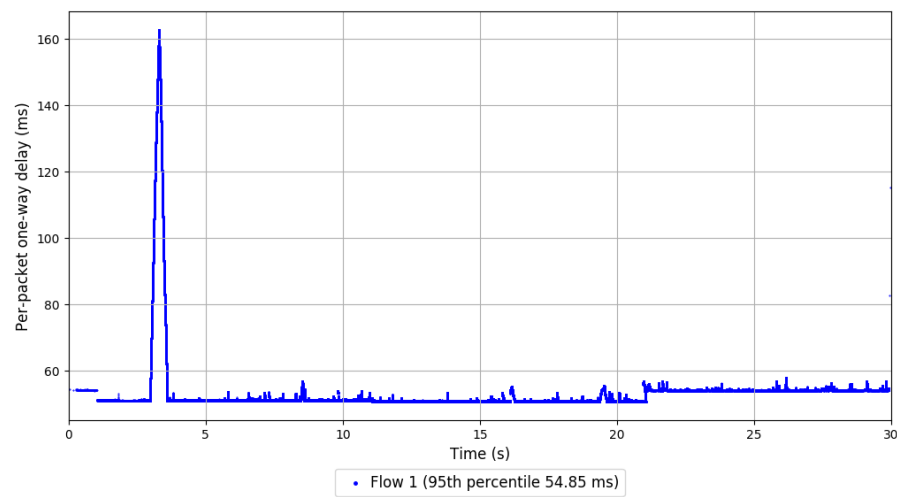
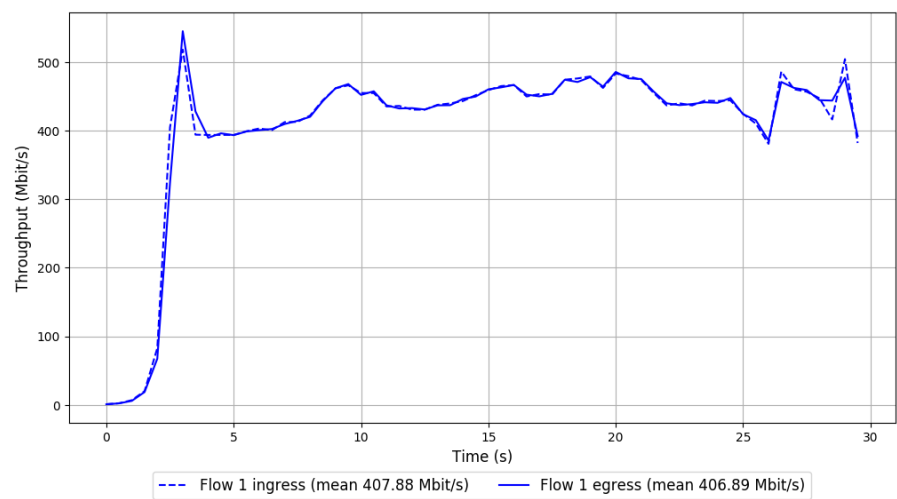
-- Flow 1:

Average throughput: 406.89 Mbit/s

95th percentile per-packet one-way delay: 54.853 ms

Loss rate: 0.17%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-30 21:32:24

End at: 2018-01-30 21:32:54

Below is generated by plot.py at 2018-01-31 00:18:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.14 Mbit/s

95th percentile per-packet one-way delay: 114.826 ms

Loss rate: 0.00%

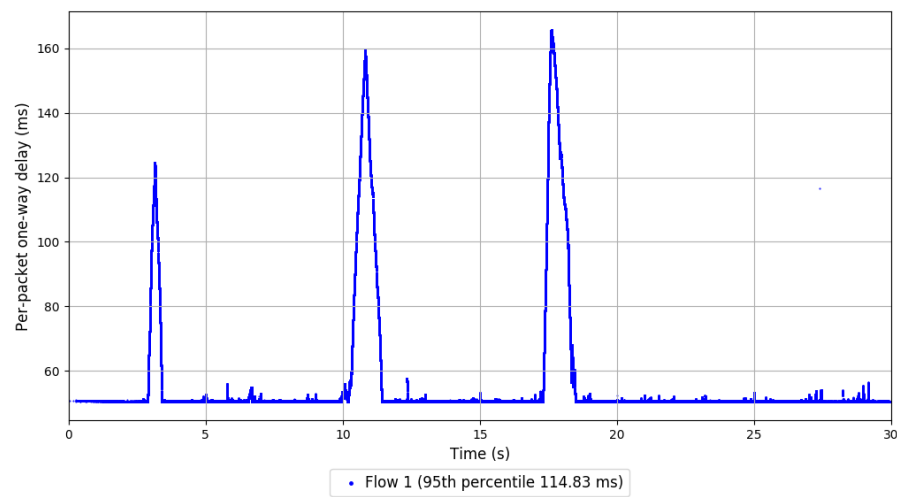
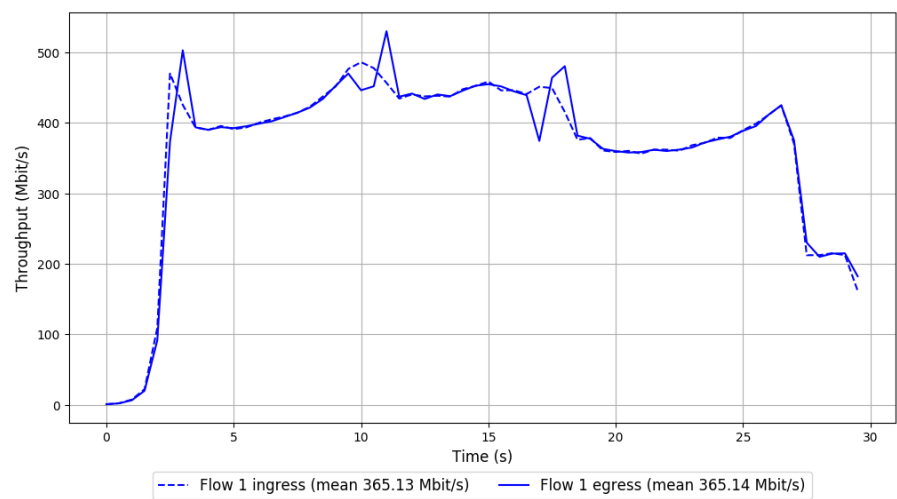
-- Flow 1:

Average throughput: 365.14 Mbit/s

95th percentile per-packet one-way delay: 114.826 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-30 21:46:11

End at: 2018-01-30 21:46:41

Below is generated by plot.py at 2018-01-31 00:18:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.55 Mbit/s

95th percentile per-packet one-way delay: 69.587 ms

Loss rate: 0.00%

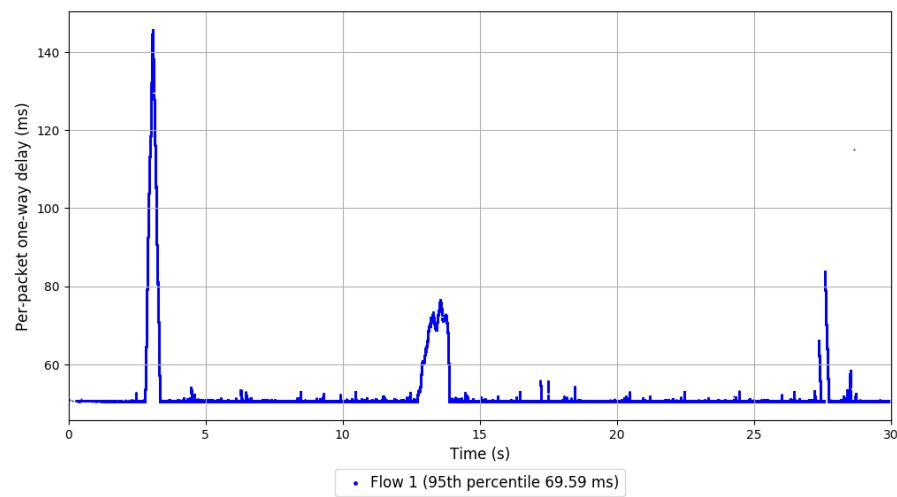
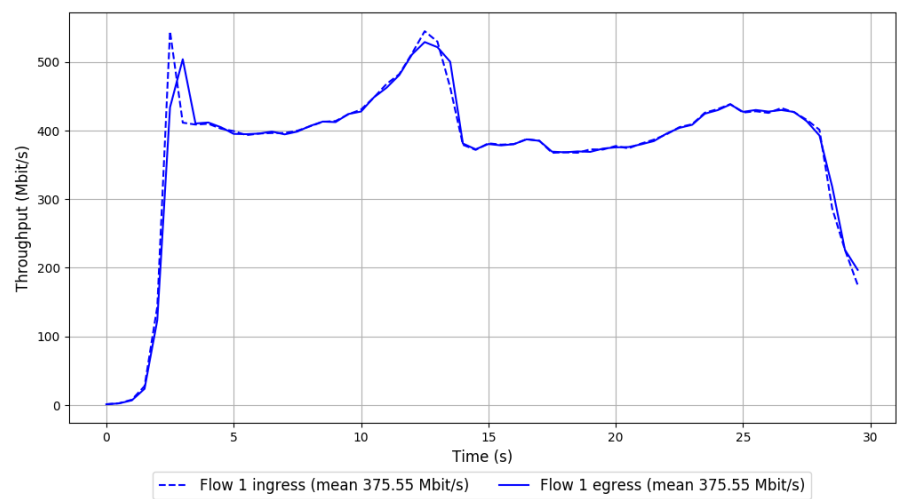
-- Flow 1:

Average throughput: 375.55 Mbit/s

95th percentile per-packet one-way delay: 69.587 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-30 21:59:56

End at: 2018-01-30 22:00:26

Below is generated by plot.py at 2018-01-31 00:23:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.03 Mbit/s

95th percentile per-packet one-way delay: 71.982 ms

Loss rate: 0.02%

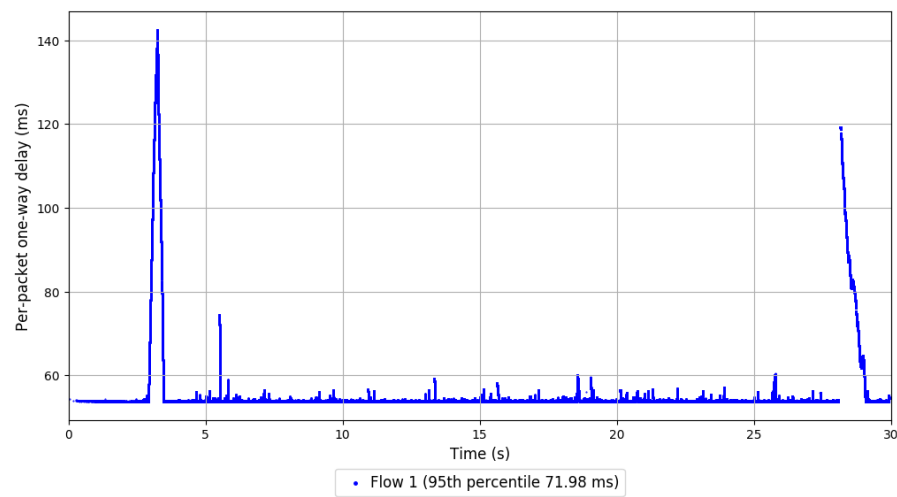
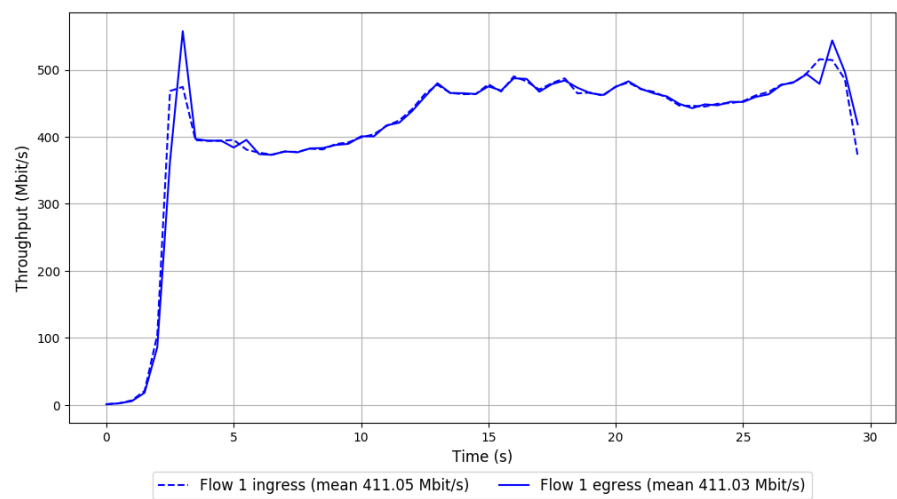
-- Flow 1:

Average throughput: 411.03 Mbit/s

95th percentile per-packet one-way delay: 71.982 ms

Loss rate: 0.02%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-30 22:13:51

End at: 2018-01-30 22:14:21

Below is generated by plot.py at 2018-01-31 00:24:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 417.37 Mbit/s

95th percentile per-packet one-way delay: 54.018 ms

Loss rate: 0.00%

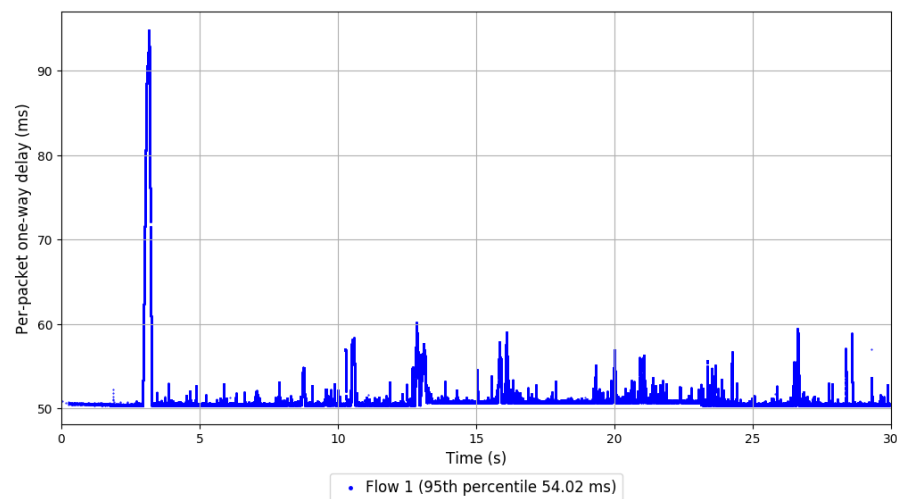
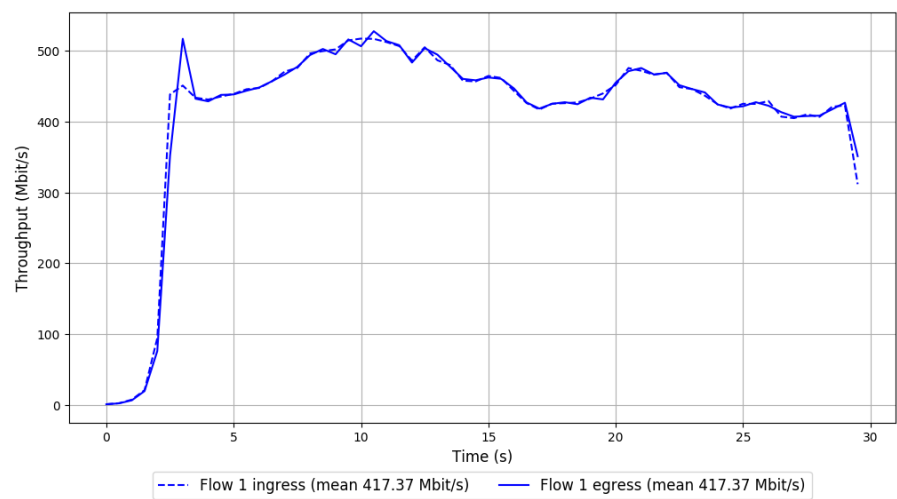
-- Flow 1:

Average throughput: 417.37 Mbit/s

95th percentile per-packet one-way delay: 54.018 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

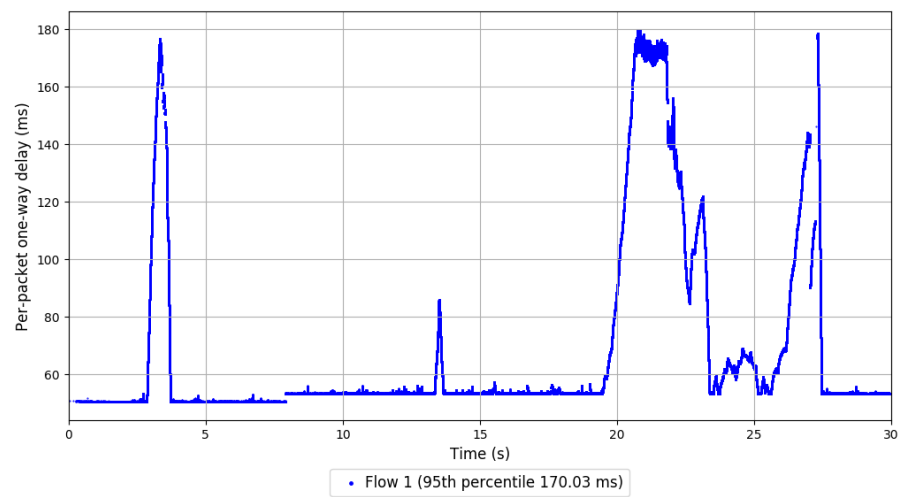
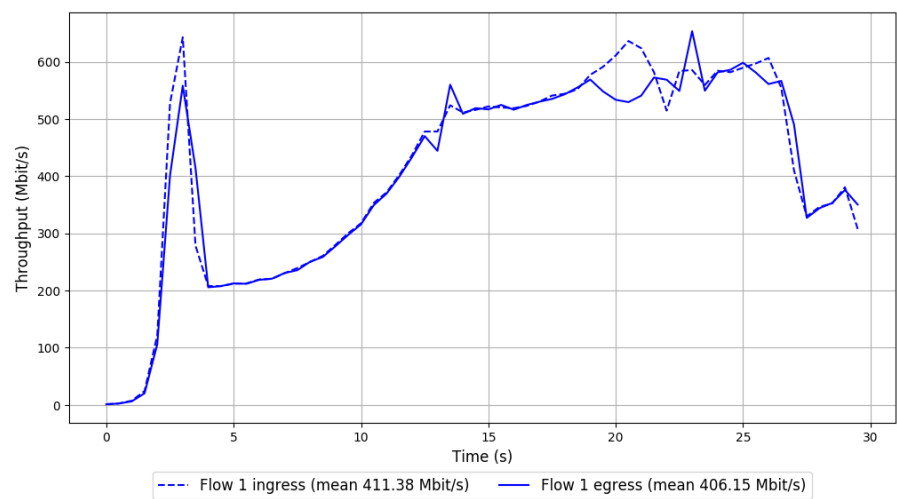


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-30 20:04:27
End at: 2018-01-30 20:04:57

# Below is generated by plot.py at 2018-01-31 00:24:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 406.15 Mbit/s
95th percentile per-packet one-way delay: 170.027 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 406.15 Mbit/s
95th percentile per-packet one-way delay: 170.027 ms
Loss rate: 1.26%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-30 20:18:08

End at: 2018-01-30 20:18:38

Below is generated by plot.py at 2018-01-31 00:24:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.78 Mbit/s

95th percentile per-packet one-way delay: 175.160 ms

Loss rate: 6.39%

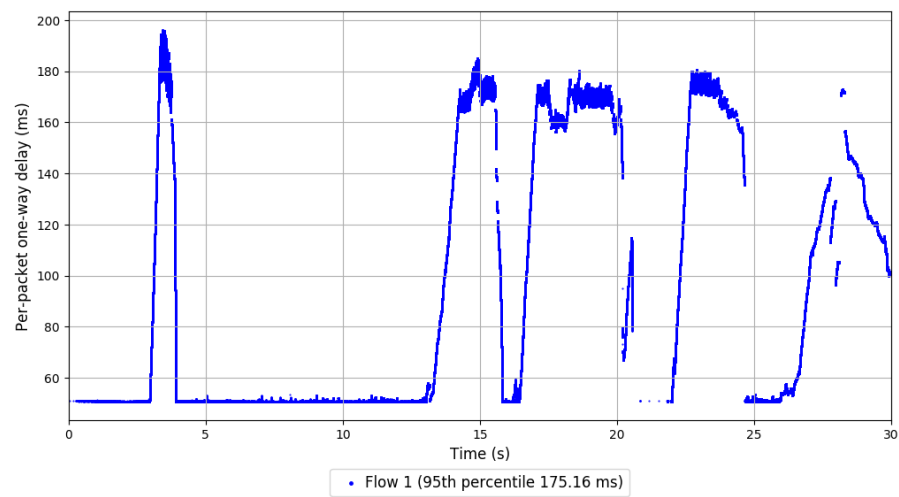
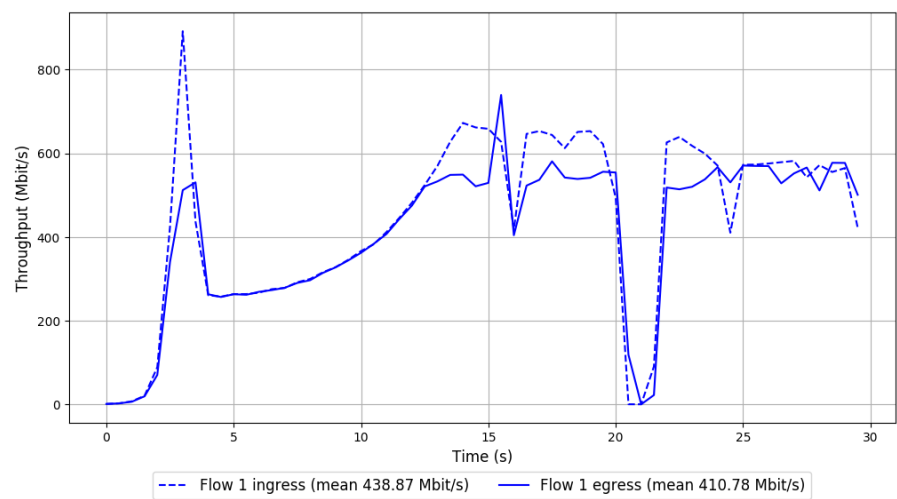
-- Flow 1:

Average throughput: 410.78 Mbit/s

95th percentile per-packet one-way delay: 175.160 ms

Loss rate: 6.39%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-30 20:31:41

End at: 2018-01-30 20:32:11

Below is generated by plot.py at 2018-01-31 00:24:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.82 Mbit/s

95th percentile per-packet one-way delay: 184.729 ms

Loss rate: 10.06%

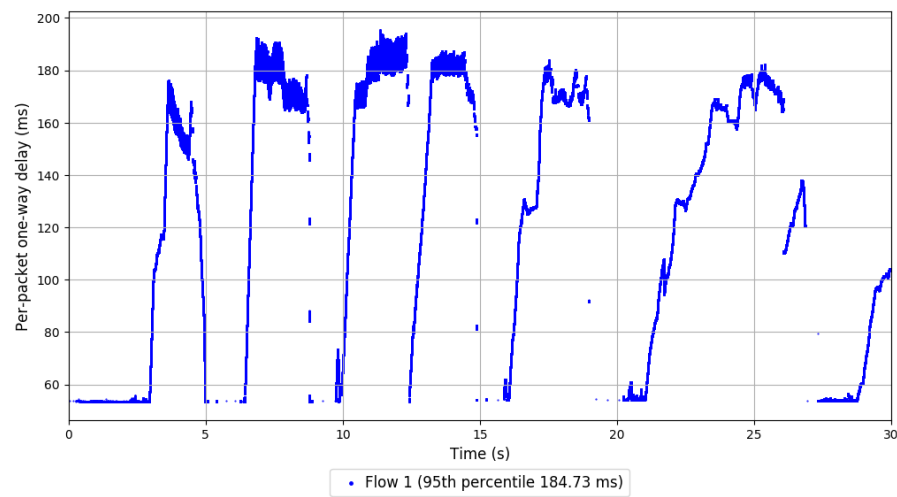
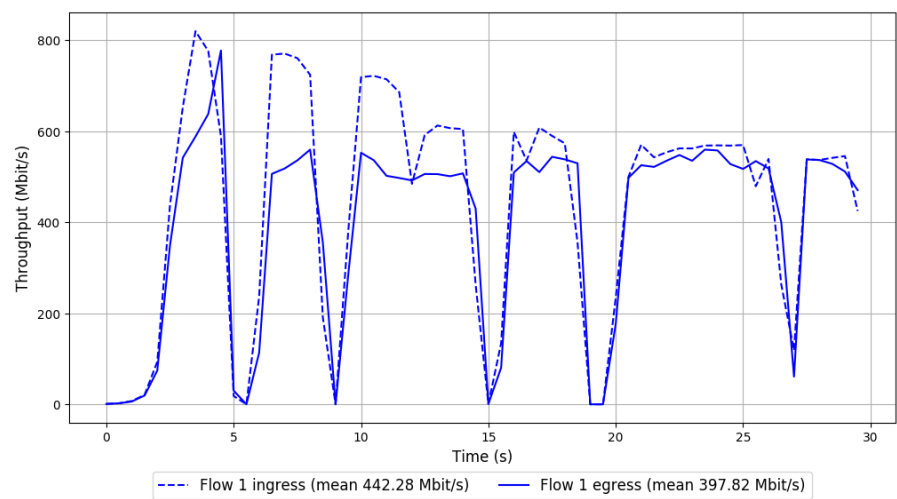
-- Flow 1:

Average throughput: 397.82 Mbit/s

95th percentile per-packet one-way delay: 184.729 ms

Loss rate: 10.06%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-30 20:45:28

End at: 2018-01-30 20:45:58

Below is generated by plot.py at 2018-01-31 00:24:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.54 Mbit/s

95th percentile per-packet one-way delay: 179.663 ms

Loss rate: 5.24%

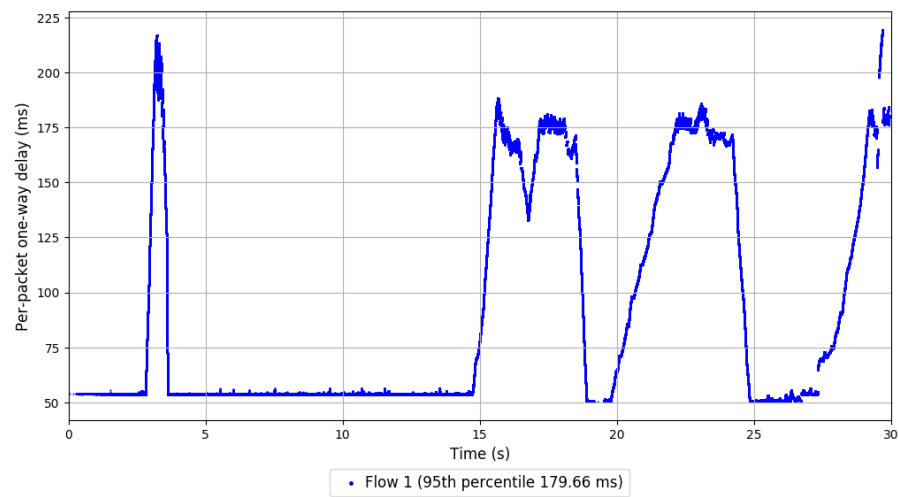
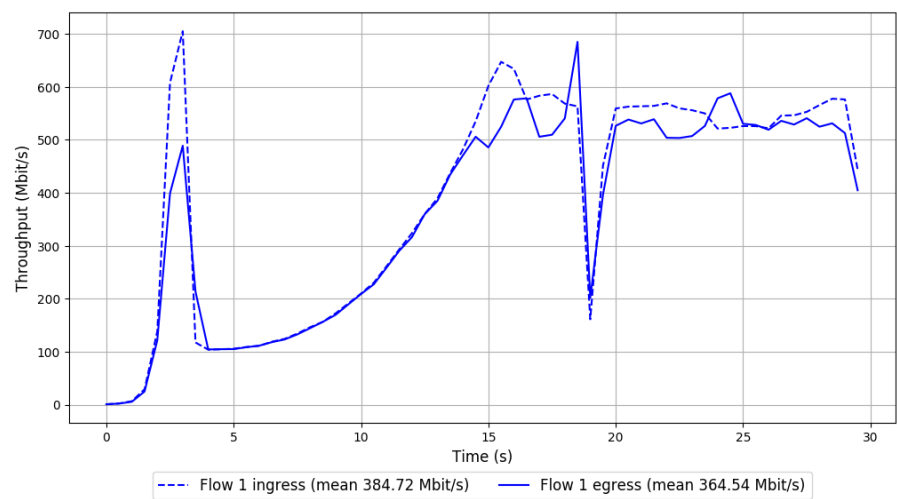
-- Flow 1:

Average throughput: 364.54 Mbit/s

95th percentile per-packet one-way delay: 179.663 ms

Loss rate: 5.24%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-30 20:59:18

End at: 2018-01-30 20:59:48

Below is generated by plot.py at 2018-01-31 00:24:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.89 Mbit/s

95th percentile per-packet one-way delay: 190.042 ms

Loss rate: 6.32%

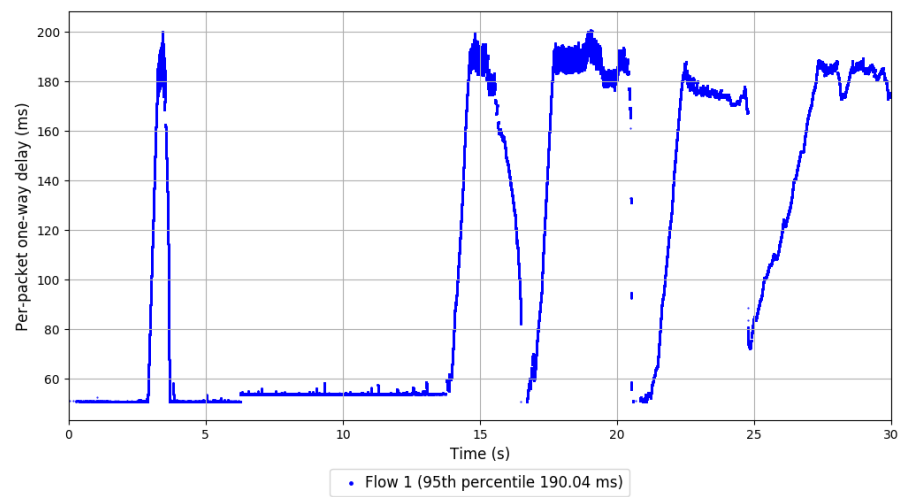
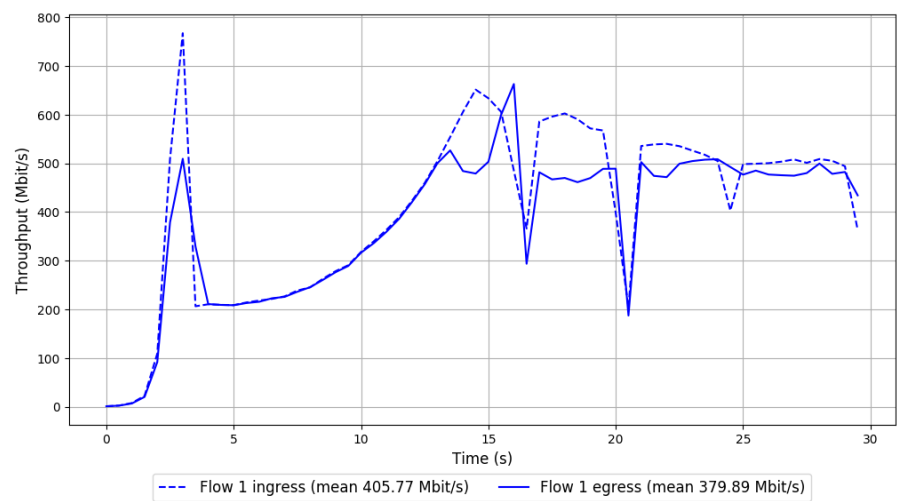
-- Flow 1:

Average throughput: 379.89 Mbit/s

95th percentile per-packet one-way delay: 190.042 ms

Loss rate: 6.32%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-30 21:12:59

End at: 2018-01-30 21:13:30

Below is generated by plot.py at 2018-01-31 00:26:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 419.23 Mbit/s

95th percentile per-packet one-way delay: 169.473 ms

Loss rate: 2.09%

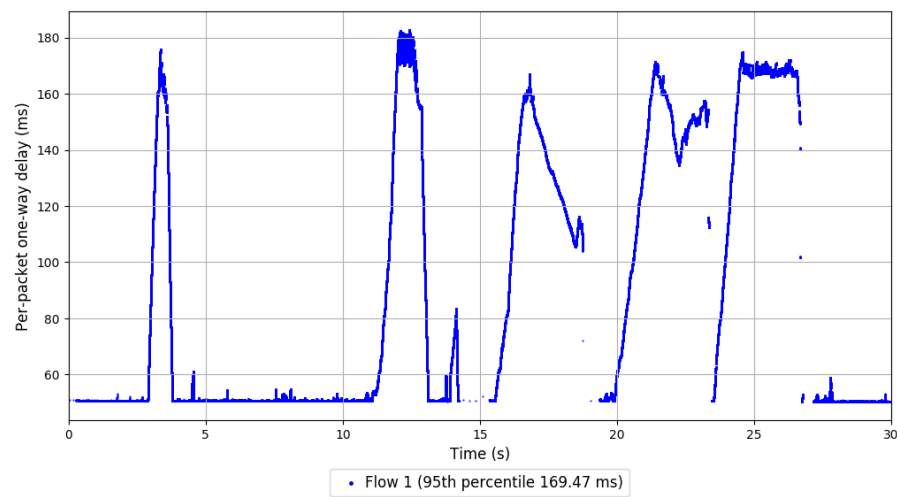
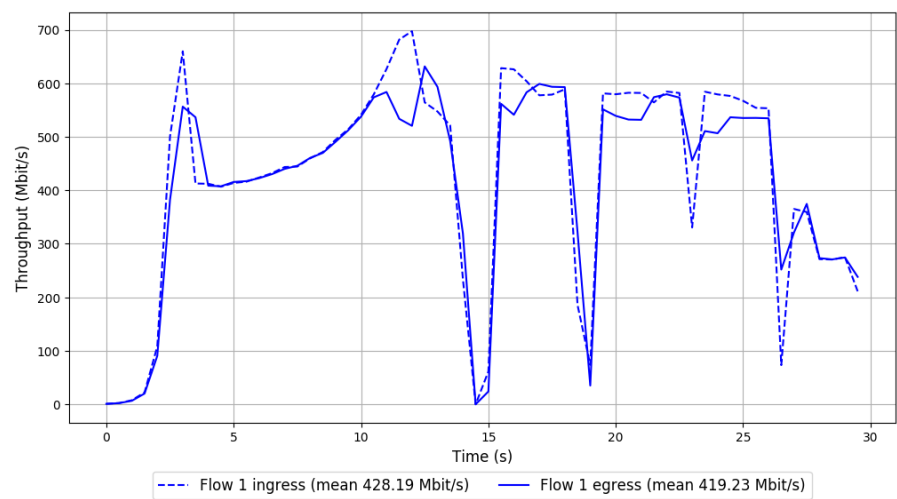
-- Flow 1:

Average throughput: 419.23 Mbit/s

95th percentile per-packet one-way delay: 169.473 ms

Loss rate: 2.09%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-30 21:27:10

End at: 2018-01-30 21:27:40

Below is generated by plot.py at 2018-01-31 00:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 419.64 Mbit/s

95th percentile per-packet one-way delay: 183.089 ms

Loss rate: 4.08%

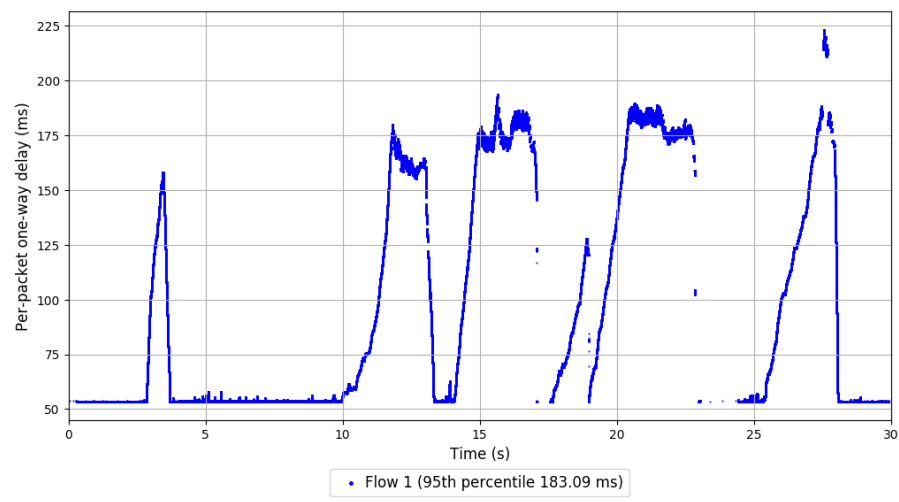
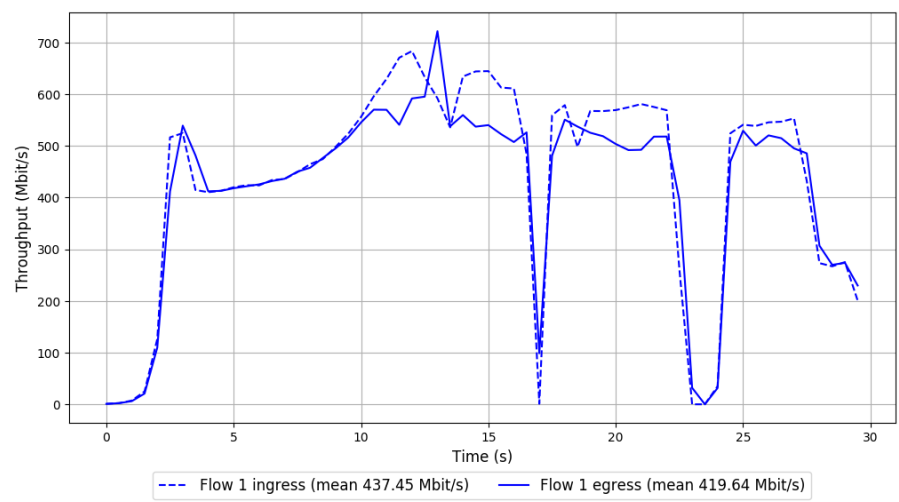
-- Flow 1:

Average throughput: 419.64 Mbit/s

95th percentile per-packet one-way delay: 183.089 ms

Loss rate: 4.08%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-30 21:40:59

End at: 2018-01-30 21:41:29

Below is generated by plot.py at 2018-01-31 00:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.59 Mbit/s

95th percentile per-packet one-way delay: 175.440 ms

Loss rate: 3.96%

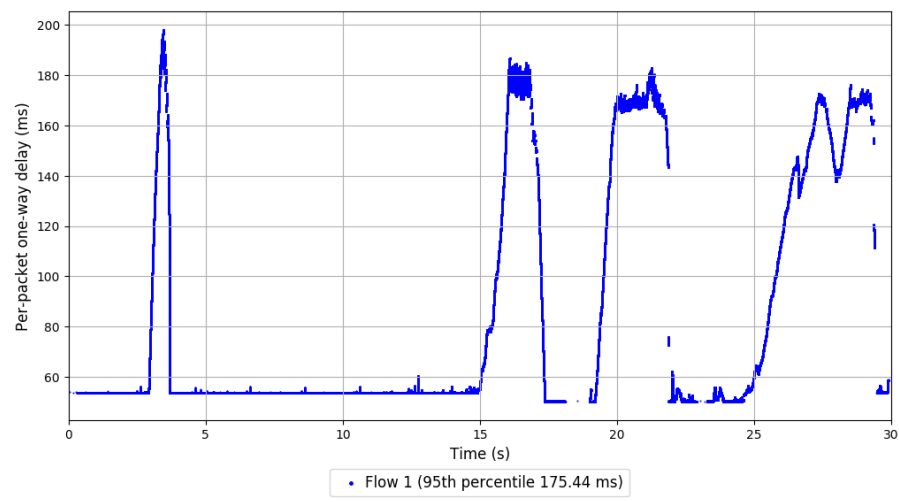
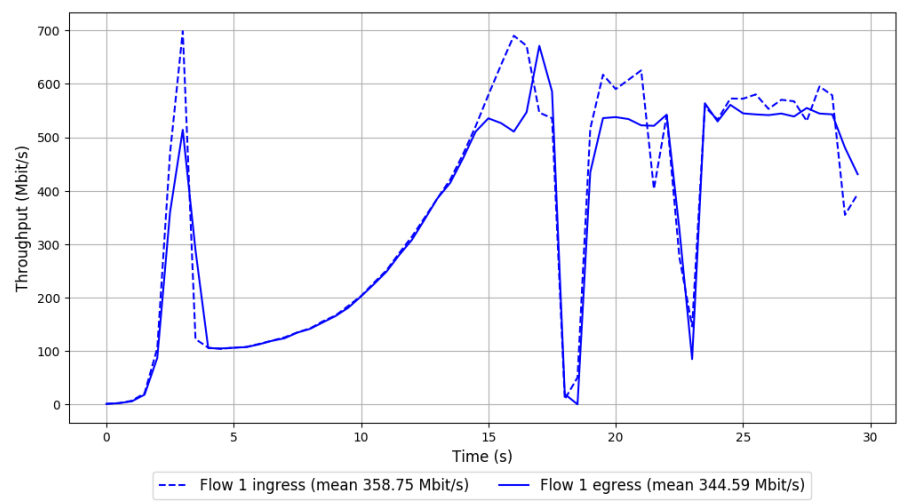
-- Flow 1:

Average throughput: 344.59 Mbit/s

95th percentile per-packet one-way delay: 175.440 ms

Loss rate: 3.96%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-30 21:54:43

End at: 2018-01-30 21:55:13

Below is generated by plot.py at 2018-01-31 00:30:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.79 Mbit/s

95th percentile per-packet one-way delay: 191.657 ms

Loss rate: 2.58%

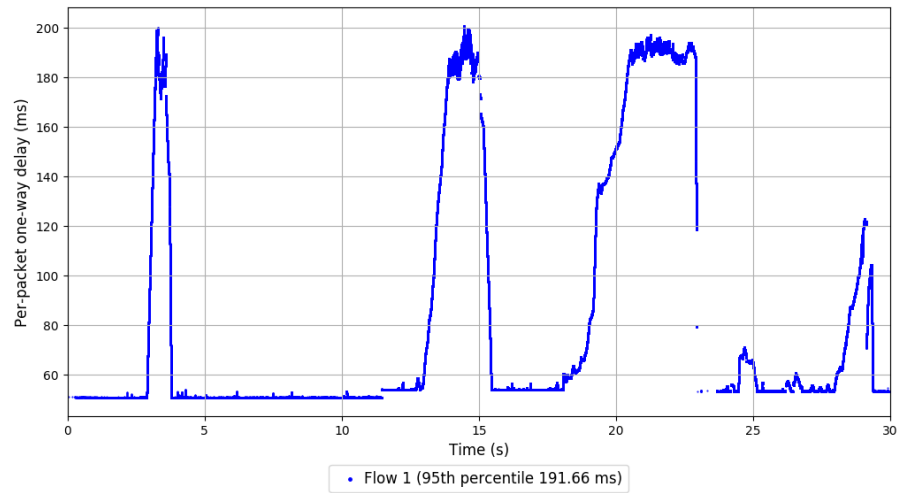
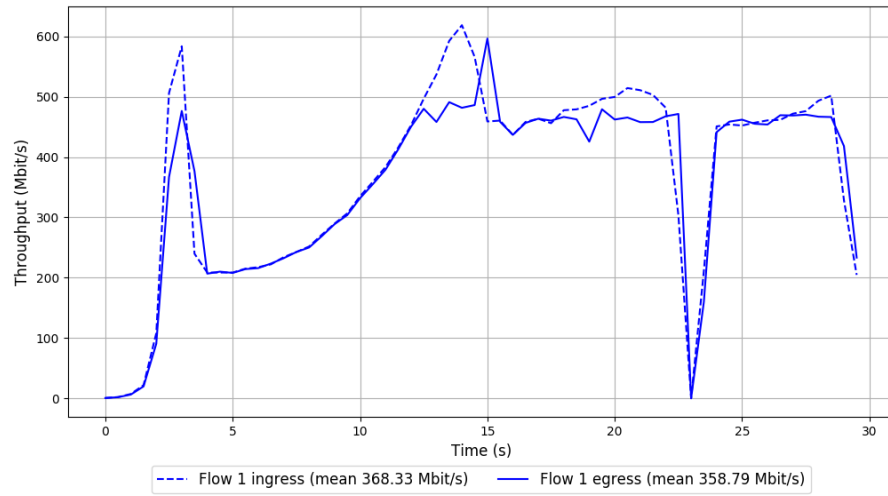
-- Flow 1:

Average throughput: 358.79 Mbit/s

95th percentile per-packet one-way delay: 191.657 ms

Loss rate: 2.58%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-30 22:08:33

End at: 2018-01-30 22:09:03

Below is generated by plot.py at 2018-01-31 00:30:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.76 Mbit/s

95th percentile per-packet one-way delay: 169.476 ms

Loss rate: 1.32%

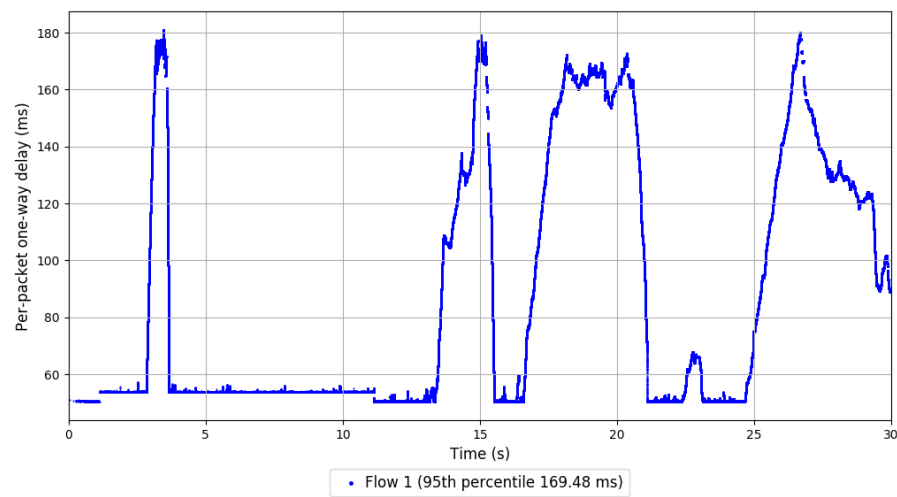
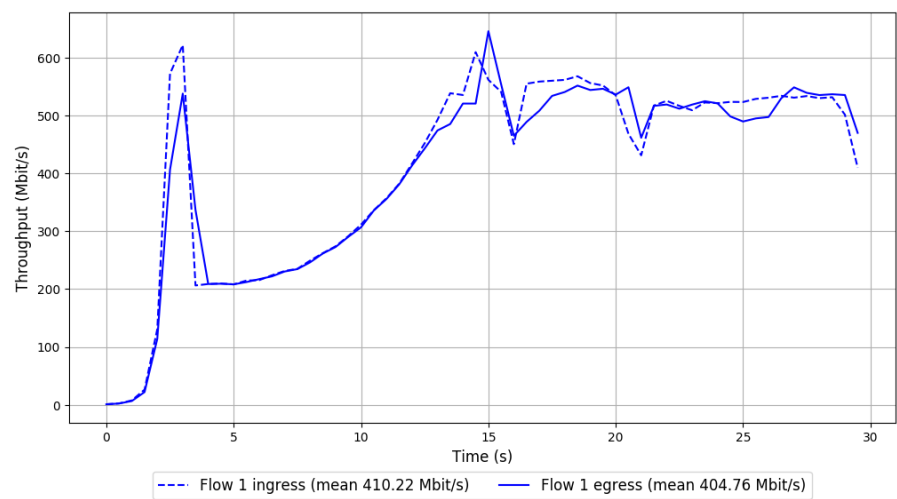
-- Flow 1:

Average throughput: 404.76 Mbit/s

95th percentile per-packet one-way delay: 169.476 ms

Loss rate: 1.32%

Run 10: Report of Vivace-loss — Data Link

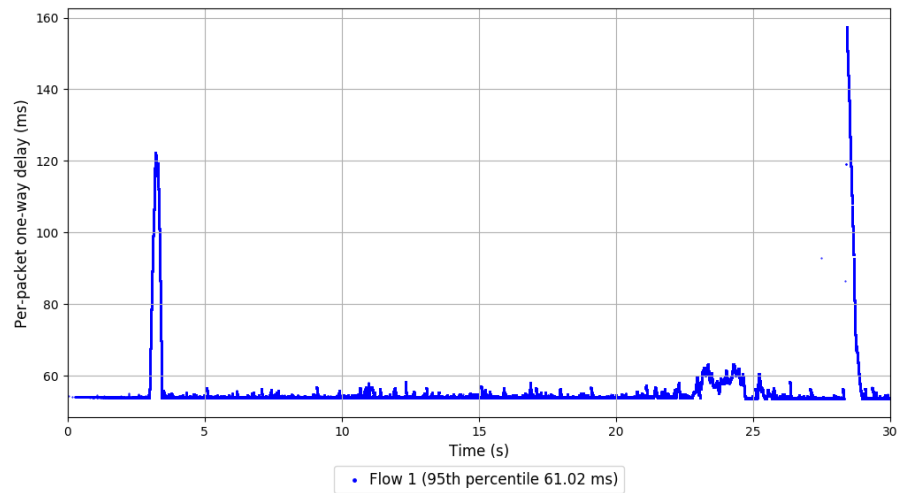
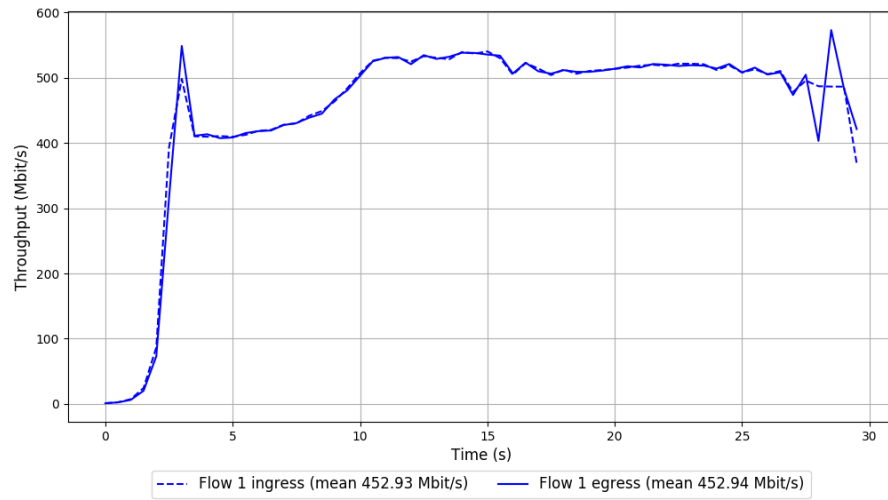


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-30 20:14:10
End at: 2018-01-30 20:14:40

# Below is generated by plot.py at 2018-01-31 00:31:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 452.94 Mbit/s
95th percentile per-packet one-way delay: 61.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 452.94 Mbit/s
95th percentile per-packet one-way delay: 61.019 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-30 20:27:43

End at: 2018-01-30 20:28:13

Below is generated by plot.py at 2018-01-31 00:32:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 461.83 Mbit/s

95th percentile per-packet one-way delay: 103.162 ms

Loss rate: 0.00%

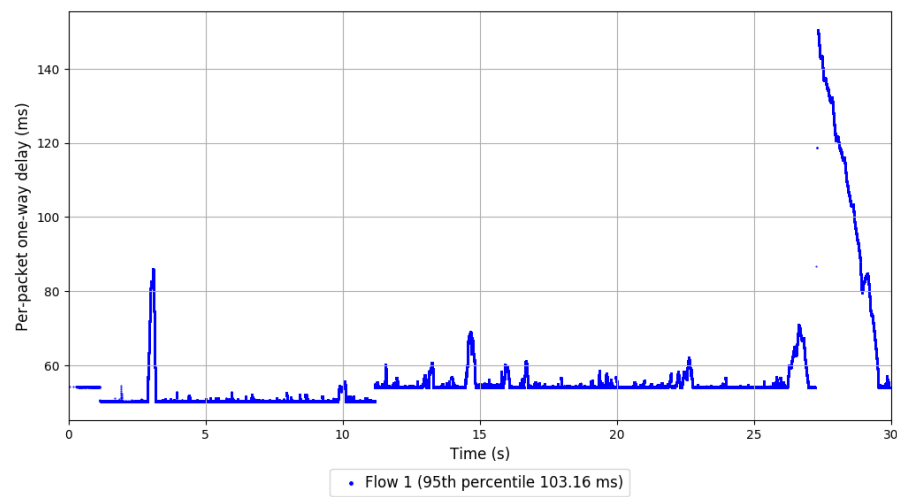
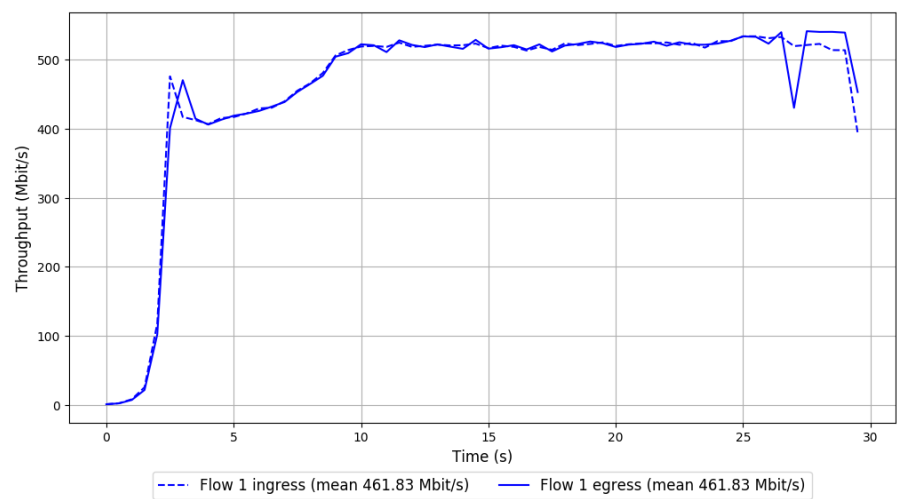
-- Flow 1:

Average throughput: 461.83 Mbit/s

95th percentile per-packet one-way delay: 103.162 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-30 20:41:23

End at: 2018-01-30 20:41:53

Below is generated by plot.py at 2018-01-31 00:32:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.81 Mbit/s

95th percentile per-packet one-way delay: 145.947 ms

Loss rate: 0.01%

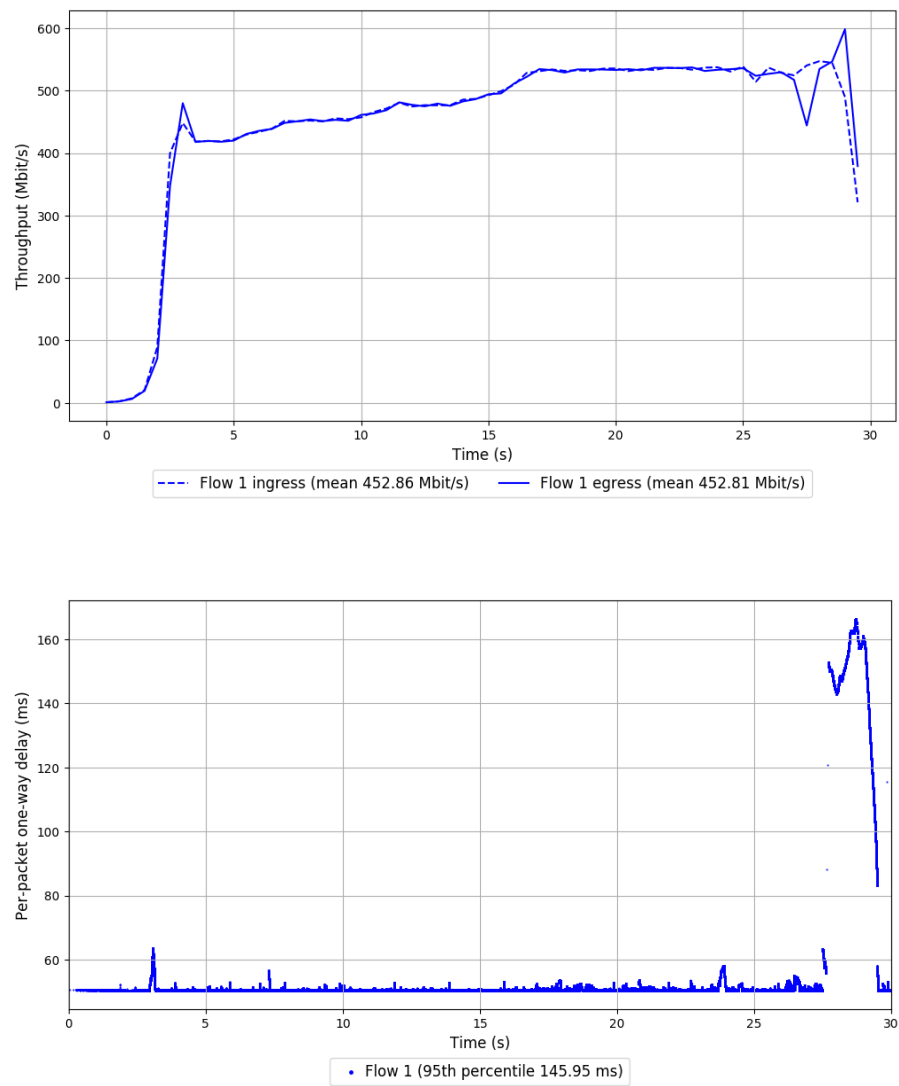
-- Flow 1:

Average throughput: 452.81 Mbit/s

95th percentile per-packet one-way delay: 145.947 ms

Loss rate: 0.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-30 20:55:06

End at: 2018-01-30 20:55:36

Below is generated by plot.py at 2018-01-31 00:33:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.71 Mbit/s

95th percentile per-packet one-way delay: 57.561 ms

Loss rate: 0.00%

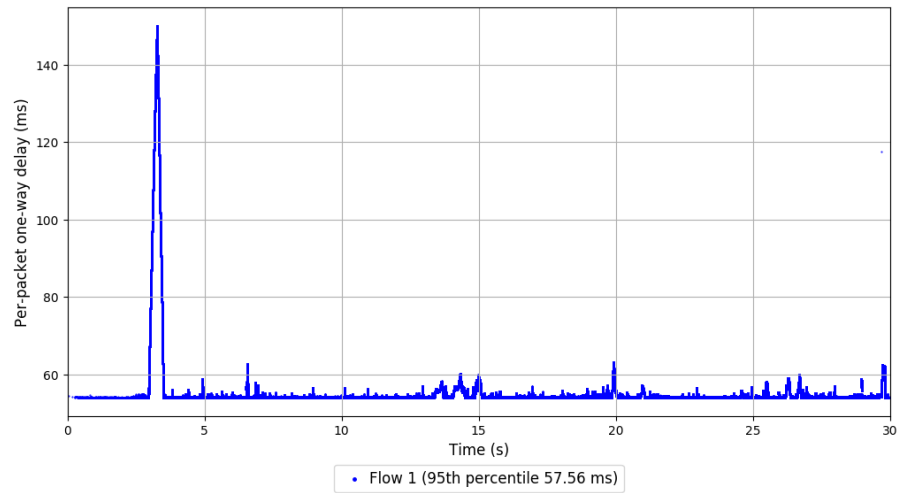
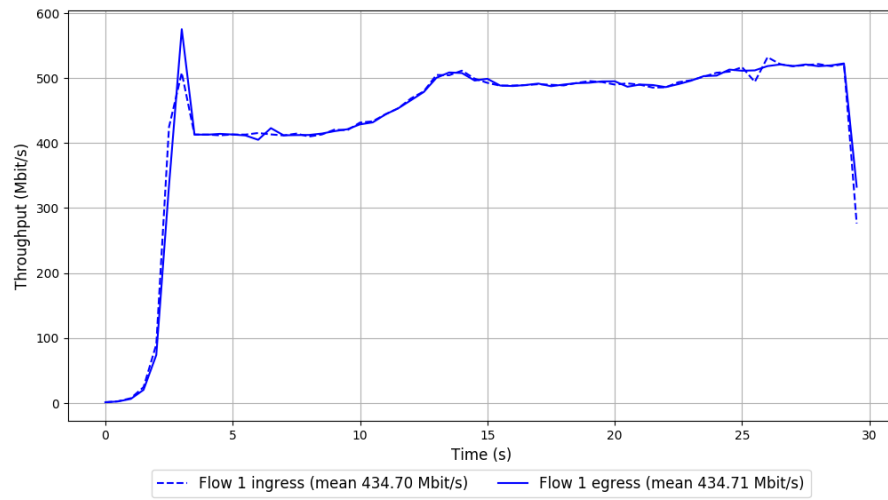
-- Flow 1:

Average throughput: 434.71 Mbit/s

95th percentile per-packet one-way delay: 57.561 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-30 21:08:53

End at: 2018-01-30 21:09:23

Below is generated by plot.py at 2018-01-31 00:35:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 419.62 Mbit/s

95th percentile per-packet one-way delay: 86.104 ms

Loss rate: 0.11%

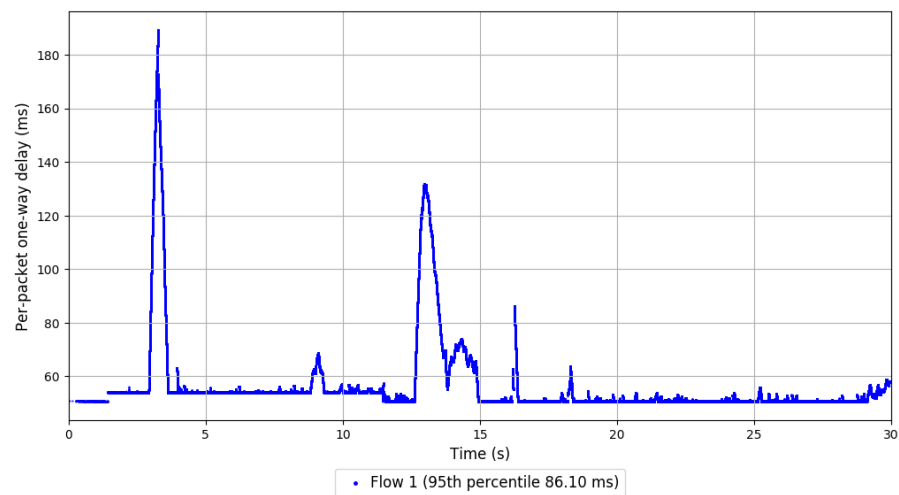
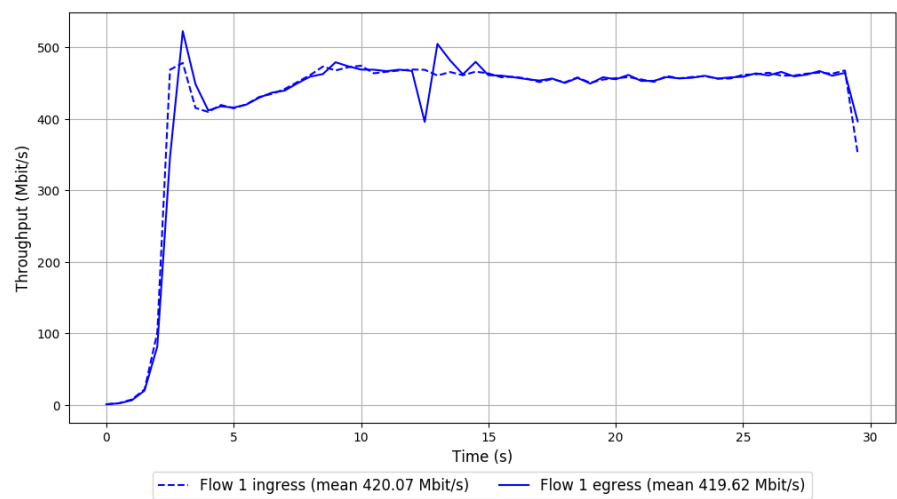
-- Flow 1:

Average throughput: 419.62 Mbit/s

95th percentile per-packet one-way delay: 86.104 ms

Loss rate: 0.11%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-30 21:22:40

End at: 2018-01-30 21:23:10

Below is generated by plot.py at 2018-01-31 00:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.80 Mbit/s

95th percentile per-packet one-way delay: 55.703 ms

Loss rate: 0.22%

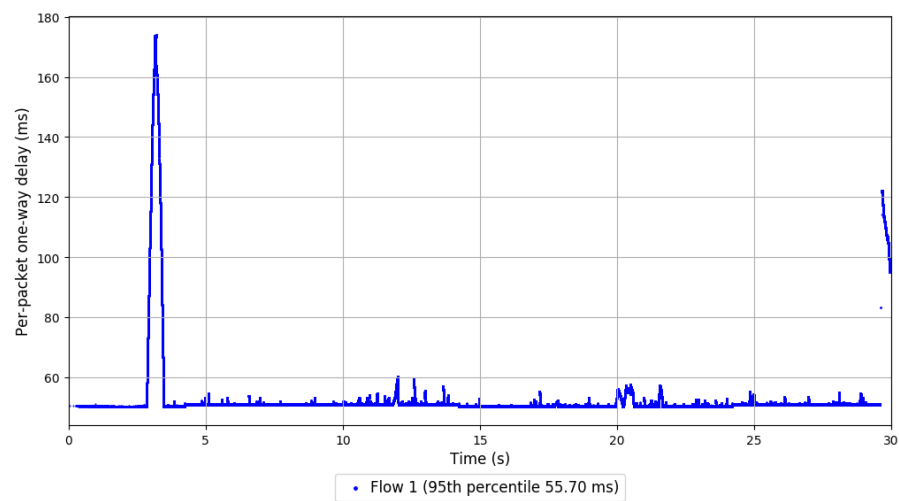
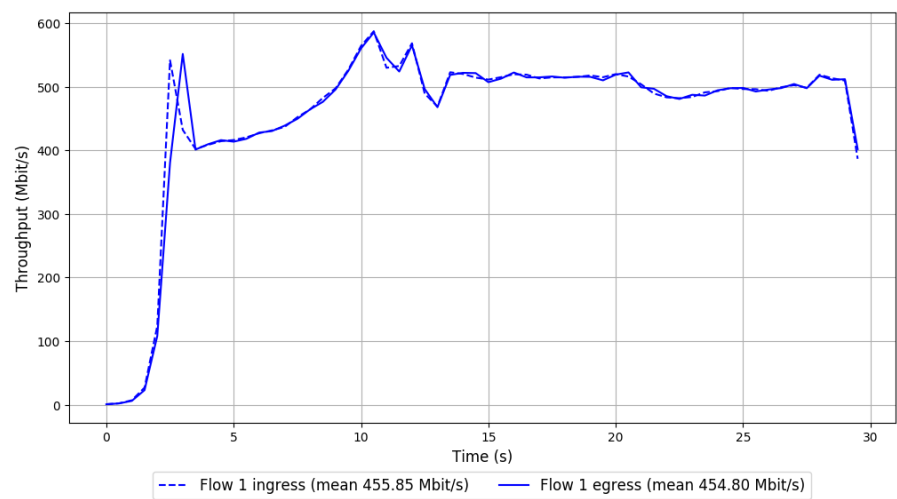
-- Flow 1:

Average throughput: 454.80 Mbit/s

95th percentile per-packet one-way delay: 55.703 ms

Loss rate: 0.22%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-30 21:36:49

End at: 2018-01-30 21:37:19

Below is generated by plot.py at 2018-01-31 00:36:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.29 Mbit/s

95th percentile per-packet one-way delay: 81.278 ms

Loss rate: 0.00%

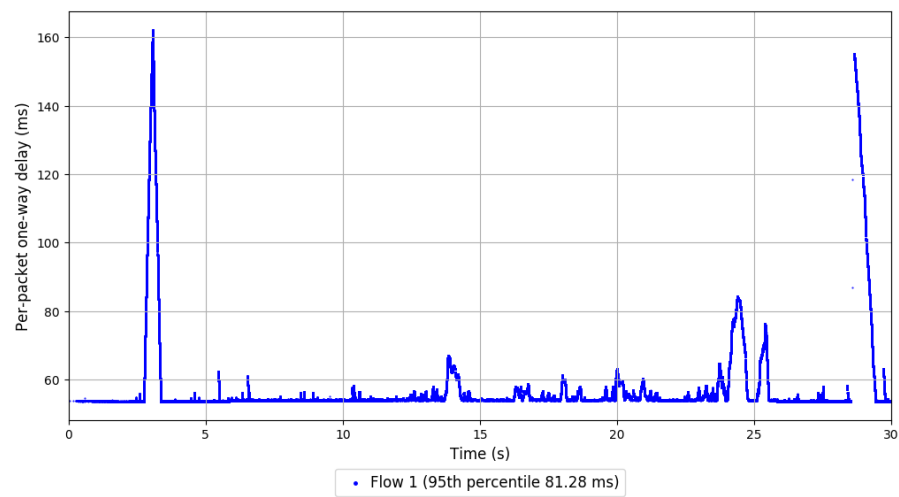
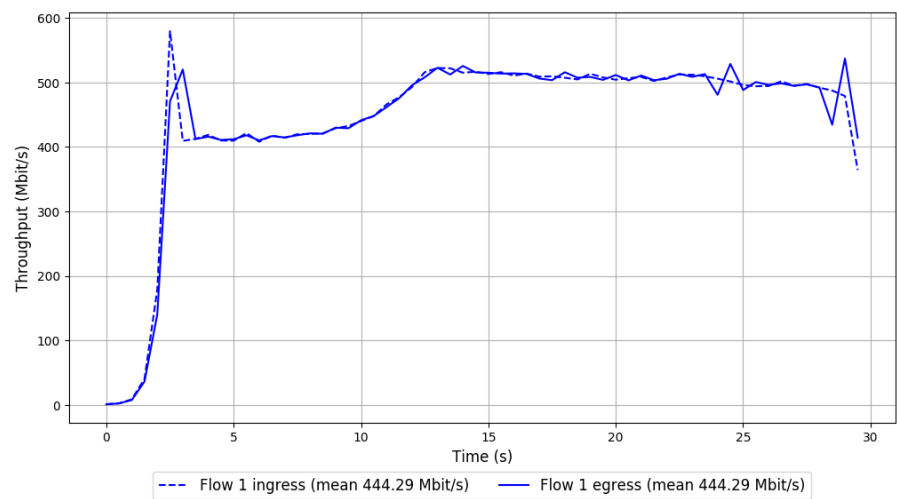
-- Flow 1:

Average throughput: 444.29 Mbit/s

95th percentile per-packet one-way delay: 81.278 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-30 21:50:37

End at: 2018-01-30 21:51:07

Below is generated by plot.py at 2018-01-31 00:36:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 432.24 Mbit/s

95th percentile per-packet one-way delay: 153.918 ms

Loss rate: 0.22%

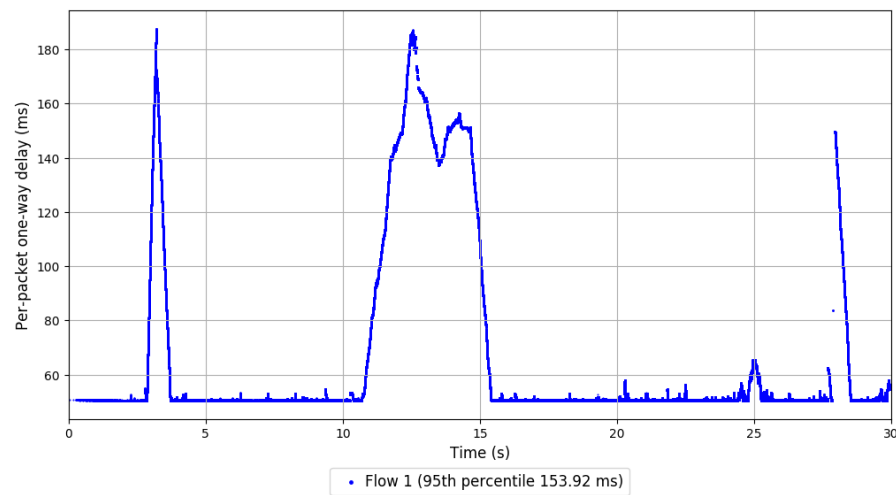
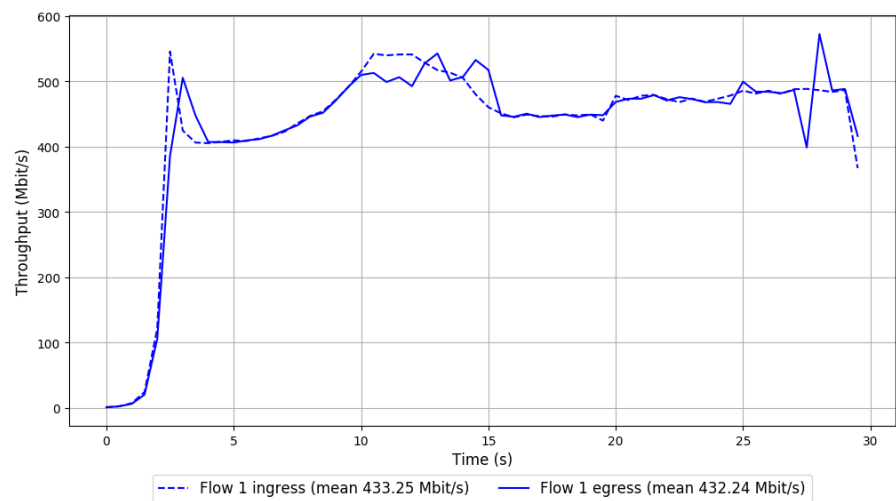
-- Flow 1:

Average throughput: 432.24 Mbit/s

95th percentile per-packet one-way delay: 153.918 ms

Loss rate: 0.22%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-30 22:04:24

End at: 2018-01-30 22:04:54

Below is generated by plot.py at 2018-01-31 00:36:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.40 Mbit/s

95th percentile per-packet one-way delay: 100.600 ms

Loss rate: 0.31%

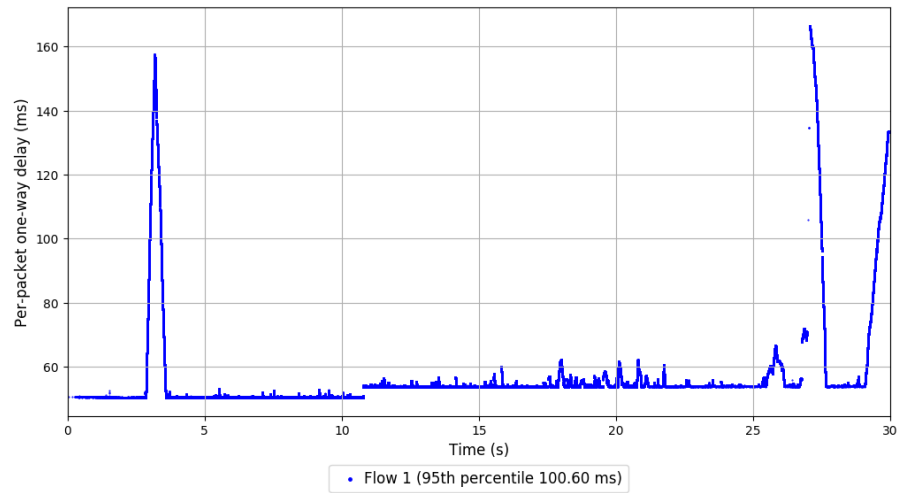
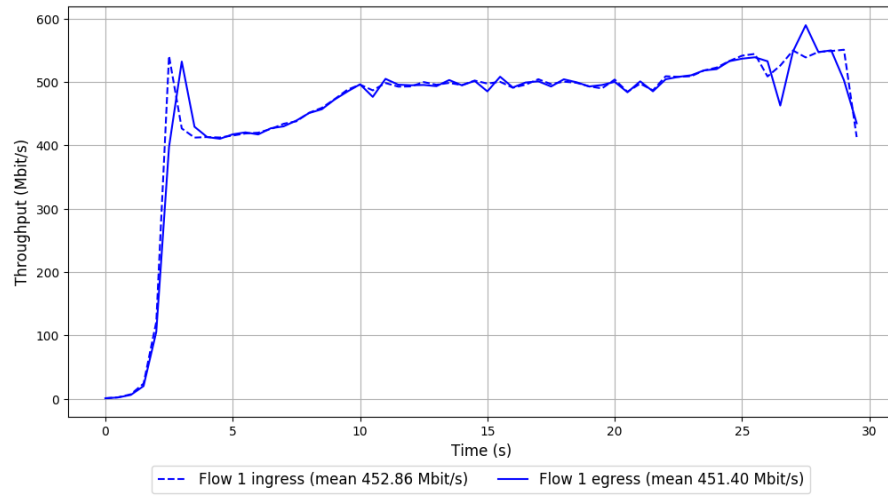
-- Flow 1:

Average throughput: 451.40 Mbit/s

95th percentile per-packet one-way delay: 100.600 ms

Loss rate: 0.31%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-30 22:18:23
End at: 2018-01-30 22:18:53

# Below is generated by plot.py at 2018-01-31 00:36:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 452.95 Mbit/s
95th percentile per-packet one-way delay: 59.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 452.95 Mbit/s
95th percentile per-packet one-way delay: 59.065 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

