

Pantheon Report

Generated at 2018-02-13 09:28:18 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

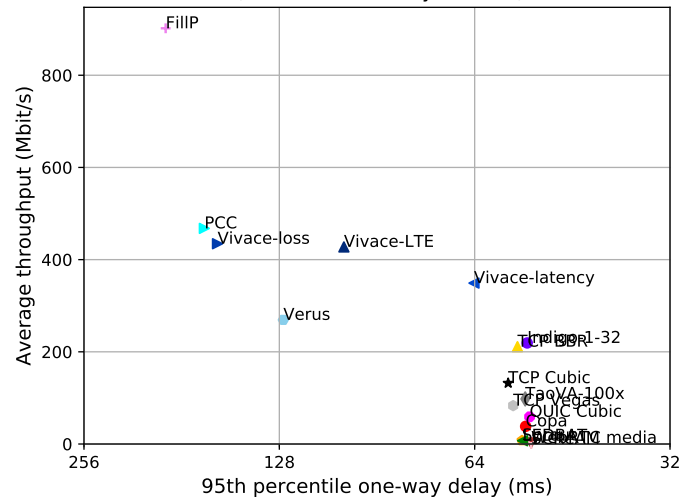
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

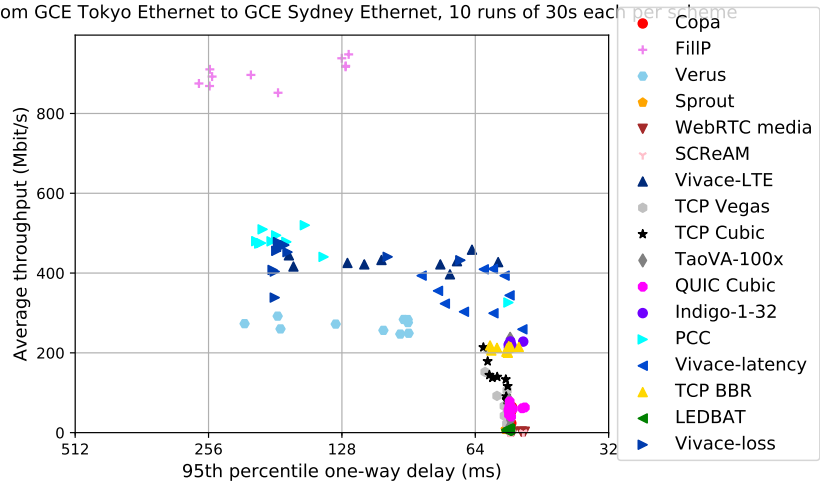
Git summary:

```
branch: master @ 2efdad57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	211.20	54.98	0.50
TCP Cubic	10	132.12	56.83	0.60
LEDBAT	10	7.08	54.01	0.63
PCC	10	467.76	167.00	1.19
QUIC Cubic	10	59.02	52.67	0.50
SCReAM	10	0.21	52.37	0.38
WebRTC media	10	2.32	52.39	0.41
Sprout	10	7.72	54.12	0.67
TaoVA-100x	8	97.80	53.49	0.54
TCP Vegas	10	83.23	55.83	0.41
Verus	10	269.31	126.20	0.67
Copa	10	38.30	53.41	0.37
FillP	10	901.85	191.59	5.81
Indigo-1-32	10	219.22	53.11	0.42
Vivace-latency	10	349.08	64.17	0.66
Vivace-loss	10	434.47	159.38	2.50
Vivace-LTE	10	427.58	101.79	0.58

Run 1: Statistics of TCP BBR

Start at: 2018-02-13 03:19:38

End at: 2018-02-13 03:20:08

Below is generated by plot.py at 2018-02-13 08:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.89 Mbit/s

95th percentile per-packet one-way delay: 51.052 ms

Loss rate: 0.39%

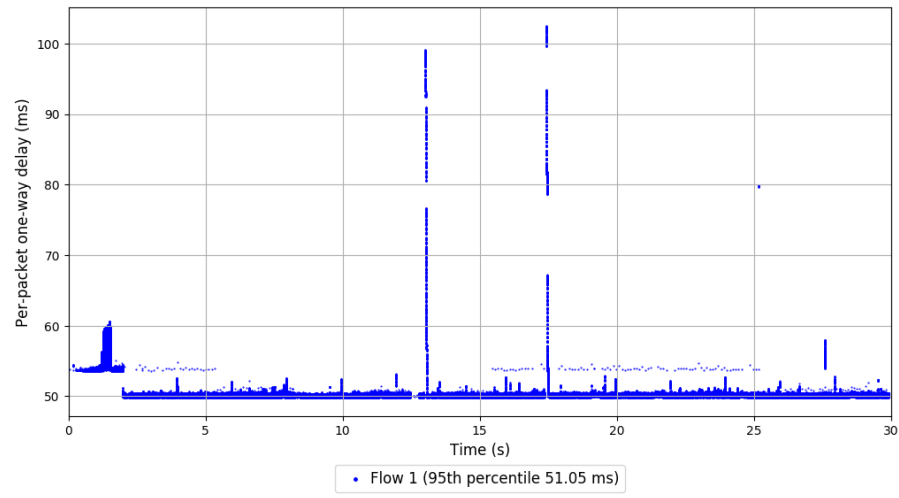
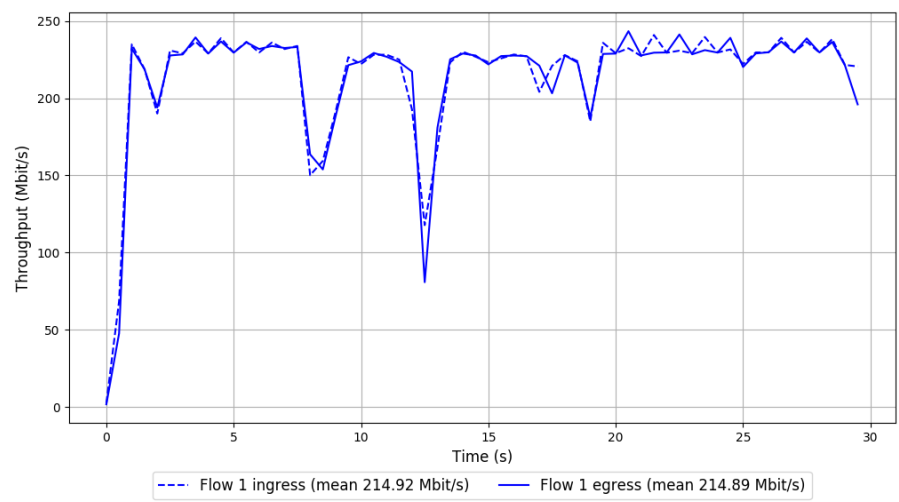
-- Flow 1:

Average throughput: 214.89 Mbit/s

95th percentile per-packet one-way delay: 51.052 ms

Loss rate: 0.39%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-13 03:33:58

End at: 2018-02-13 03:34:28

Below is generated by plot.py at 2018-02-13 08:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.93 Mbit/s

95th percentile per-packet one-way delay: 54.450 ms

Loss rate: 0.40%

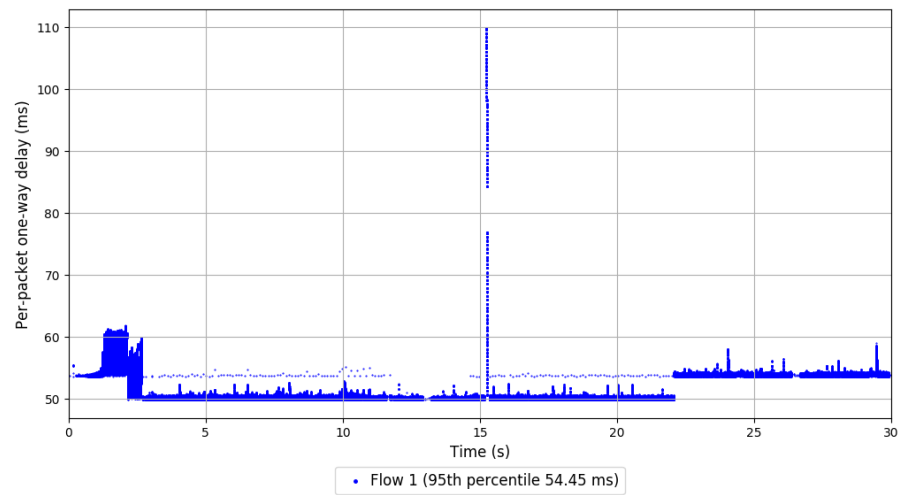
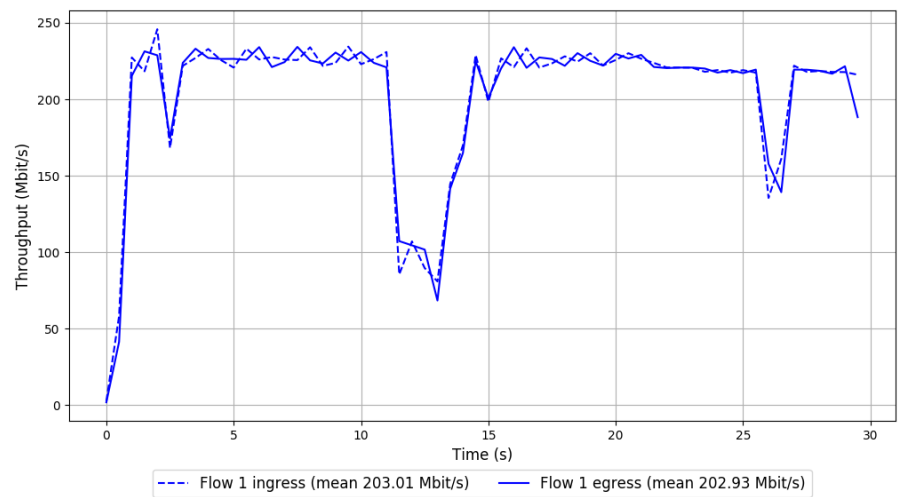
-- Flow 1:

Average throughput: 202.93 Mbit/s

95th percentile per-packet one-way delay: 54.450 ms

Loss rate: 0.40%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-13 03:48:23

End at: 2018-02-13 03:48:53

Below is generated by plot.py at 2018-02-13 08:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.91 Mbit/s

95th percentile per-packet one-way delay: 58.876 ms

Loss rate: 0.51%

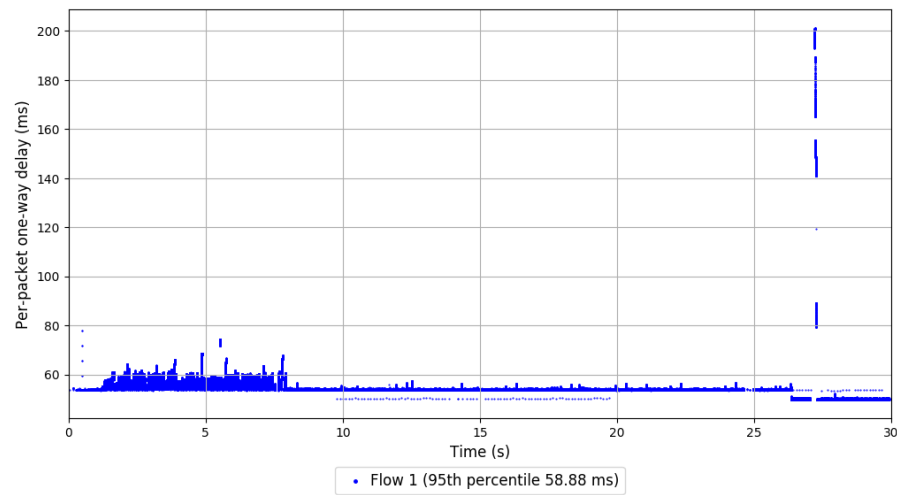
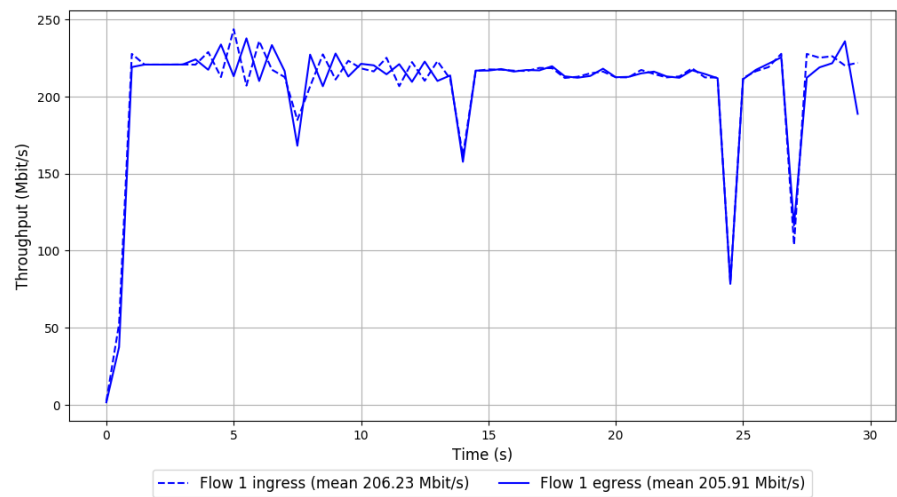
-- Flow 1:

Average throughput: 205.91 Mbit/s

95th percentile per-packet one-way delay: 58.876 ms

Loss rate: 0.51%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-13 04:02:35

End at: 2018-02-13 04:03:05

Below is generated by plot.py at 2018-02-13 08:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.66 Mbit/s

95th percentile per-packet one-way delay: 57.171 ms

Loss rate: 0.66%

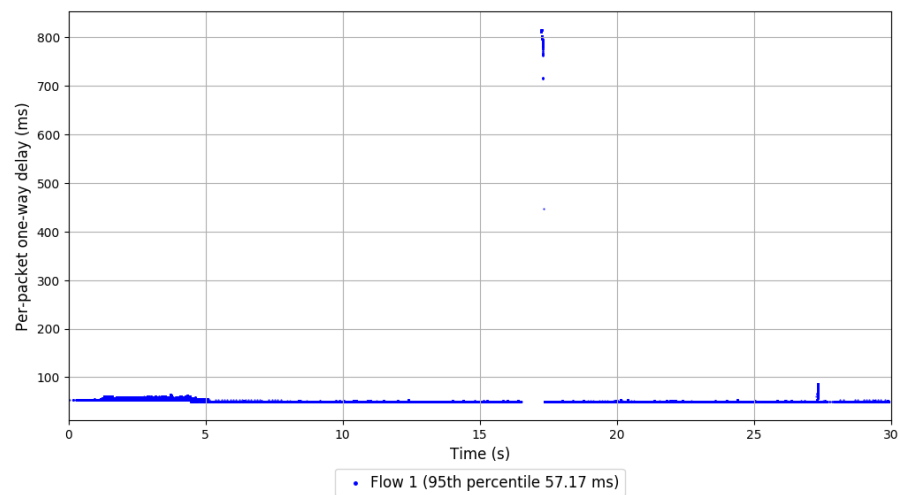
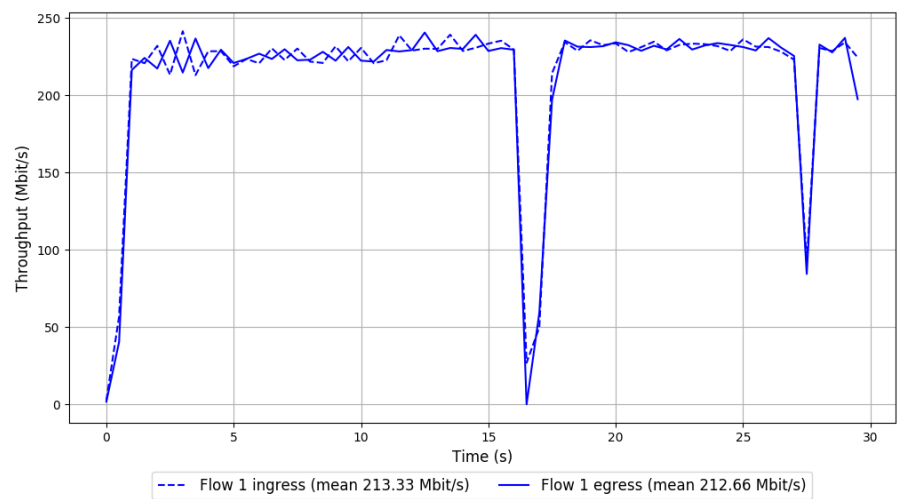
-- Flow 1:

Average throughput: 212.66 Mbit/s

95th percentile per-packet one-way delay: 57.171 ms

Loss rate: 0.66%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-13 04:17:01

End at: 2018-02-13 04:17:31

Below is generated by plot.py at 2018-02-13 08:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.90 Mbit/s

95th percentile per-packet one-way delay: 53.773 ms

Loss rate: 0.45%

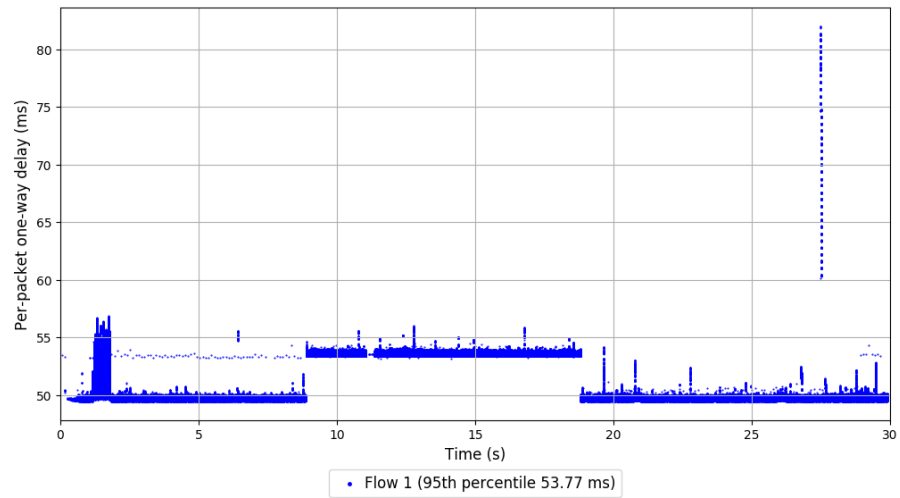
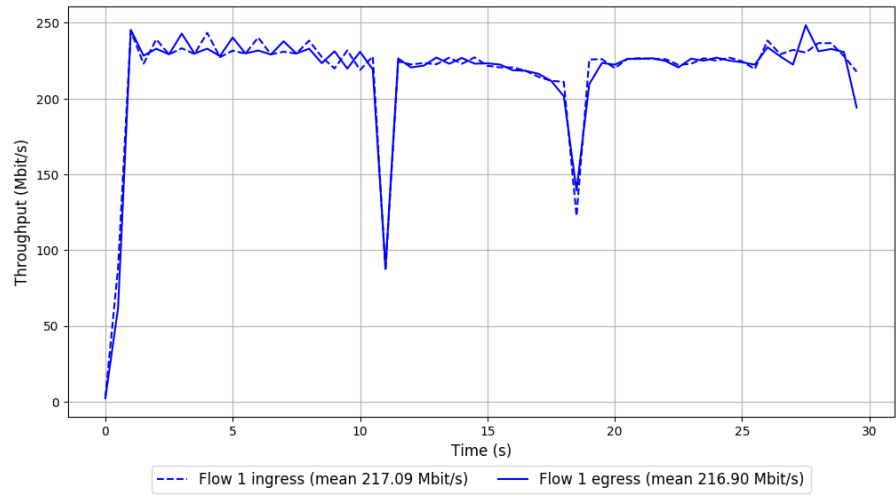
-- Flow 1:

Average throughput: 216.90 Mbit/s

95th percentile per-packet one-way delay: 53.773 ms

Loss rate: 0.45%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-13 04:31:37

End at: 2018-02-13 04:32:07

Below is generated by plot.py at 2018-02-13 08:08:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.60 Mbit/s

95th percentile per-packet one-way delay: 59.276 ms

Loss rate: 0.53%

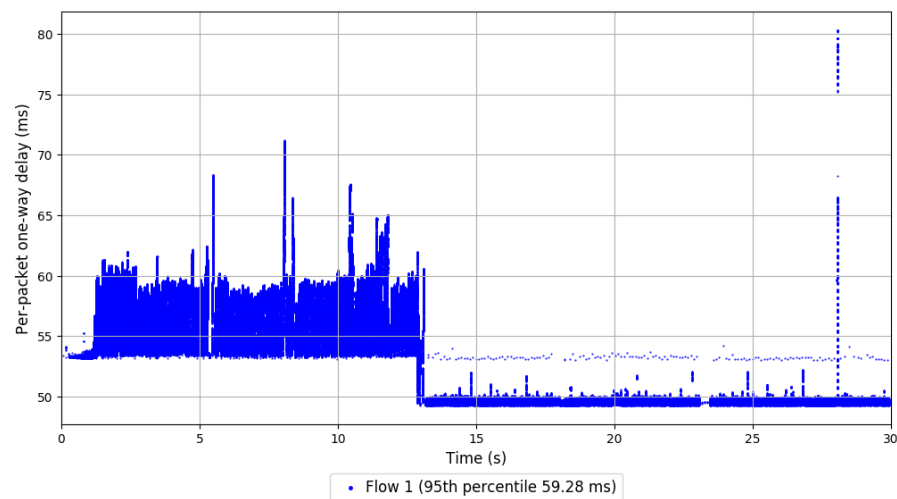
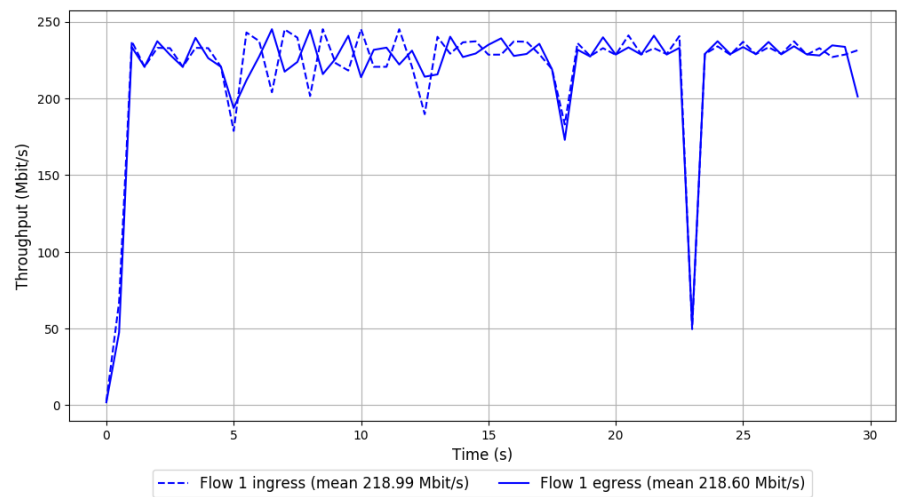
-- Flow 1:

Average throughput: 218.60 Mbit/s

95th percentile per-packet one-way delay: 59.276 ms

Loss rate: 0.53%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-13 04:46:03

End at: 2018-02-13 04:46:33

Below is generated by plot.py at 2018-02-13 08:08:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.55 Mbit/s

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

Loss rate: 0.47%

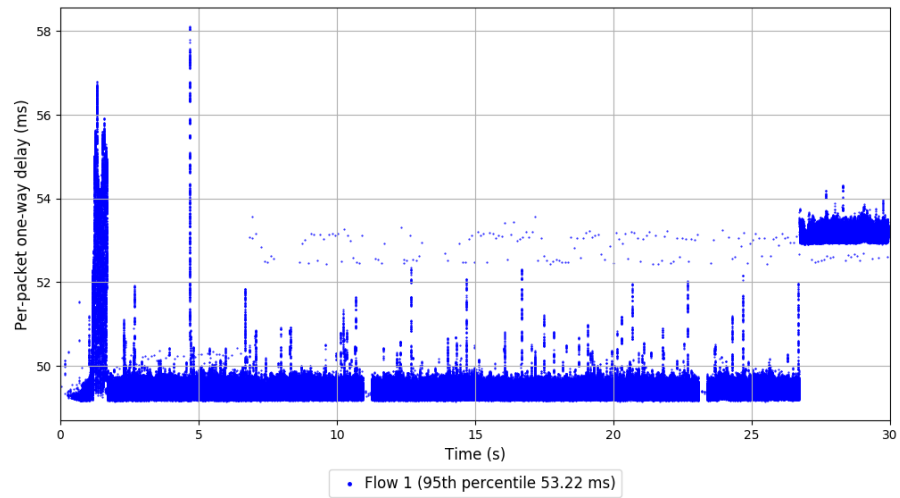
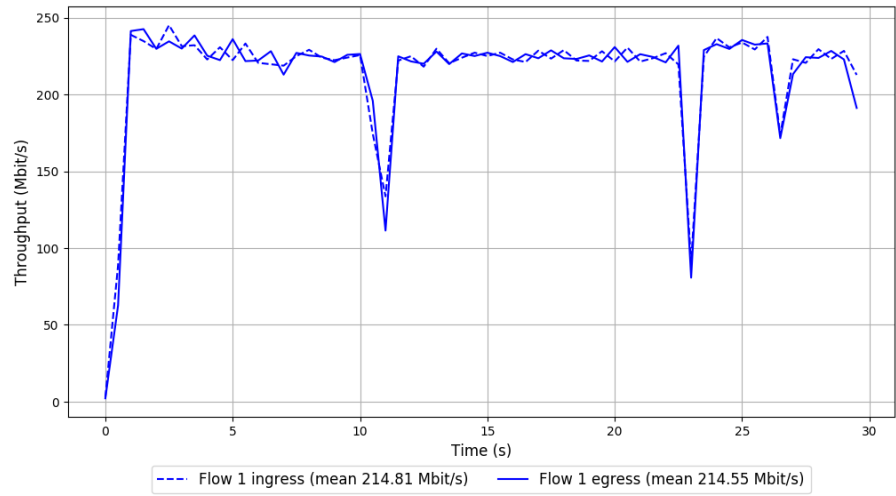
-- Flow 1:

Average throughput: 214.55 Mbit/s

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

Loss rate: 0.47%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-13 05:00:26

End at: 2018-02-13 05:00:56

Below is generated by plot.py at 2018-02-13 08:08:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.40 Mbit/s

95th percentile per-packet one-way delay: 54.217 ms

Loss rate: 0.43%

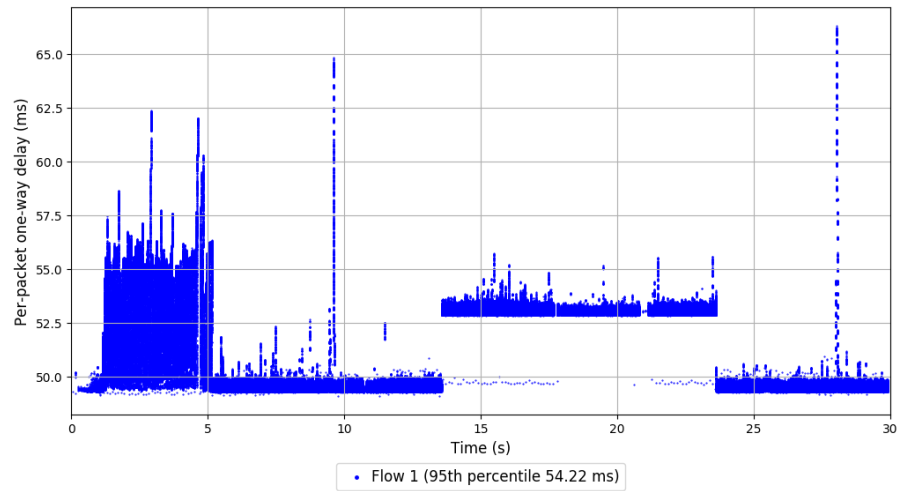
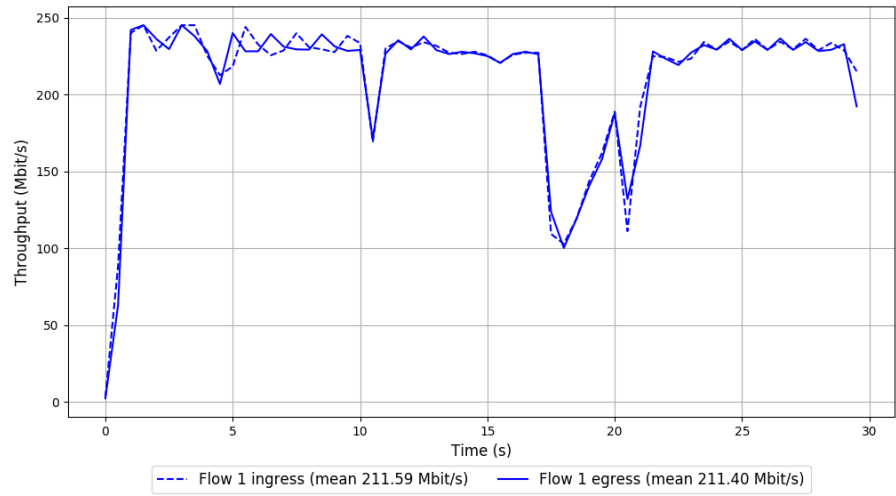
-- Flow 1:

Average throughput: 211.40 Mbit/s

95th percentile per-packet one-way delay: 54.217 ms

Loss rate: 0.43%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-13 05:14:47

End at: 2018-02-13 05:15:17

Below is generated by plot.py at 2018-02-13 08:12:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.91 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.54%

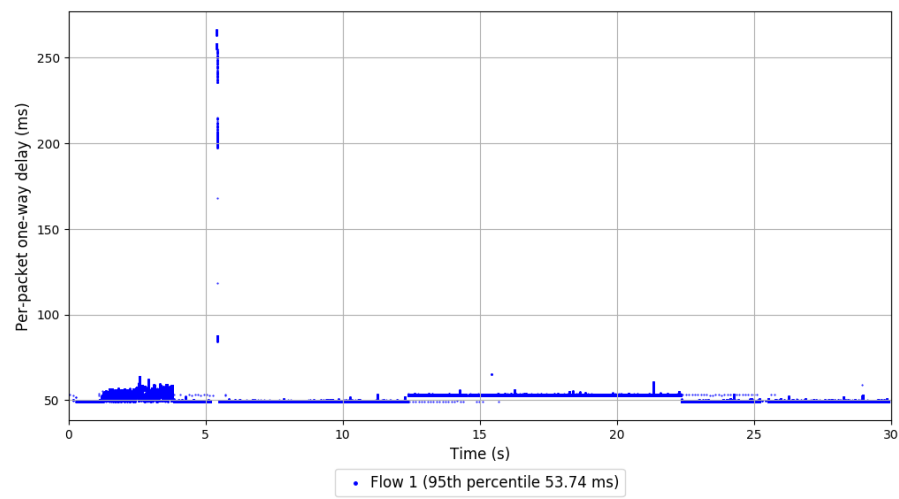
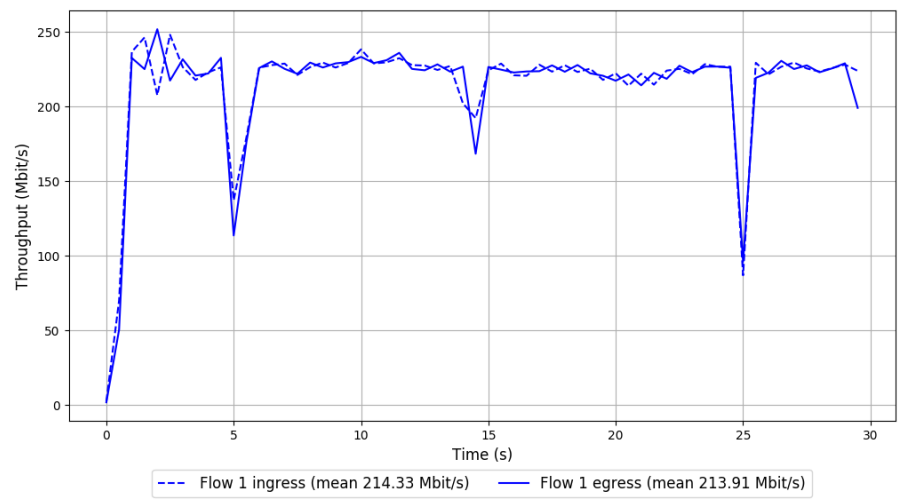
-- Flow 1:

Average throughput: 213.91 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.54%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-13 05:29:22

End at: 2018-02-13 05:29:52

Below is generated by plot.py at 2018-02-13 08:12:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.29 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.65%

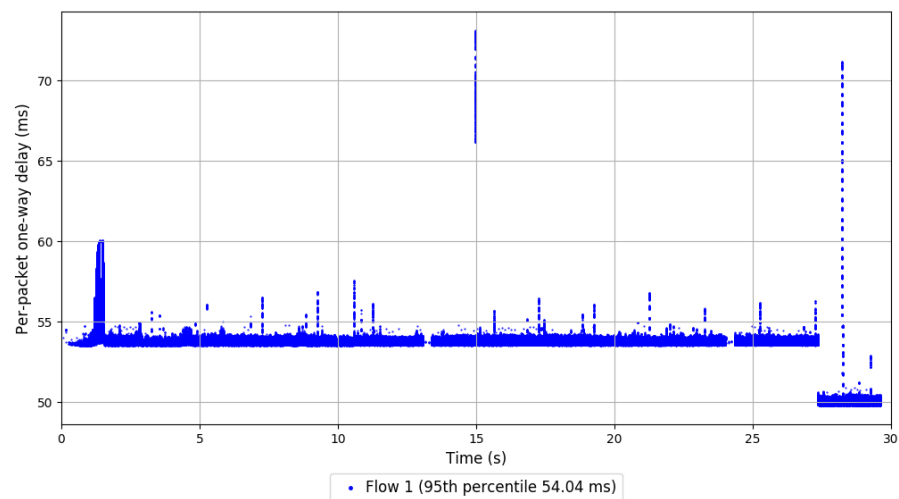
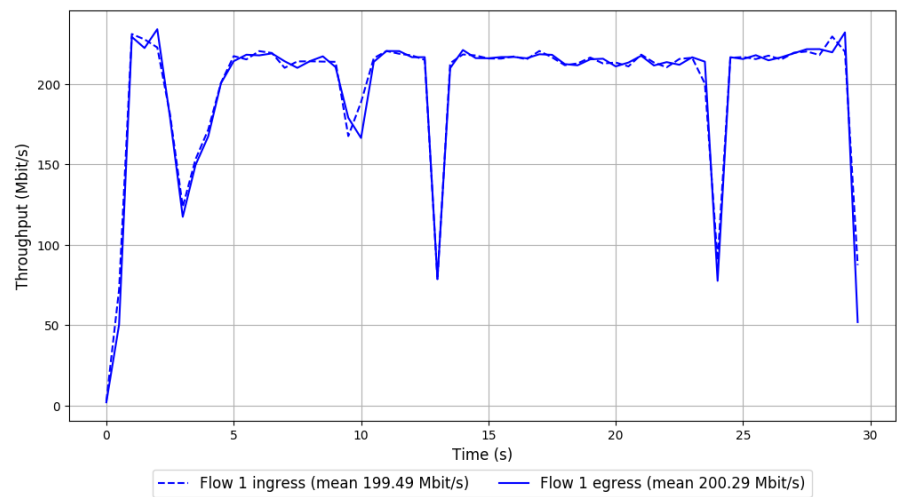
-- Flow 1:

Average throughput: 200.29 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.65%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-13 03:12:58

End at: 2018-02-13 03:13:28

Below is generated by plot.py at 2018-02-13 08:12:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 54.339 ms

Loss rate: 0.38%

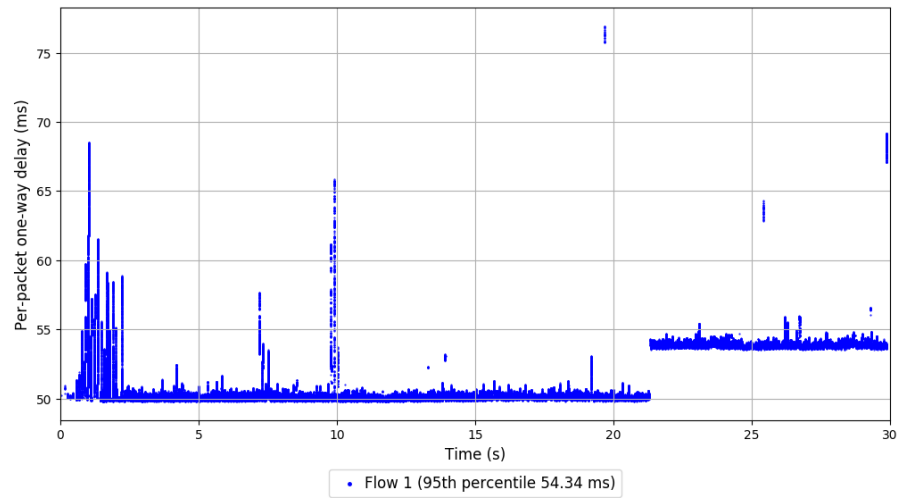
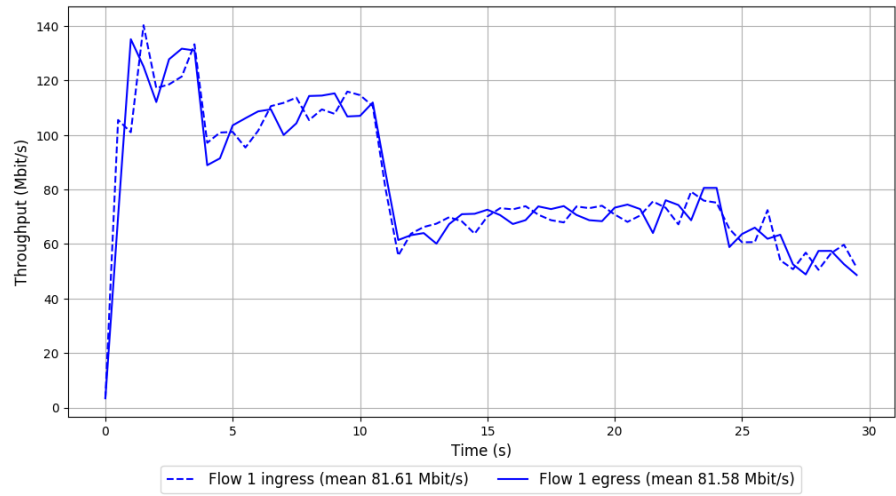
-- Flow 1:

Average throughput: 81.58 Mbit/s

95th percentile per-packet one-way delay: 54.339 ms

Loss rate: 0.38%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 03:27:23

End at: 2018-02-13 03:27:53

Below is generated by plot.py at 2018-02-13 08:12:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 54.480 ms

Loss rate: 0.73%

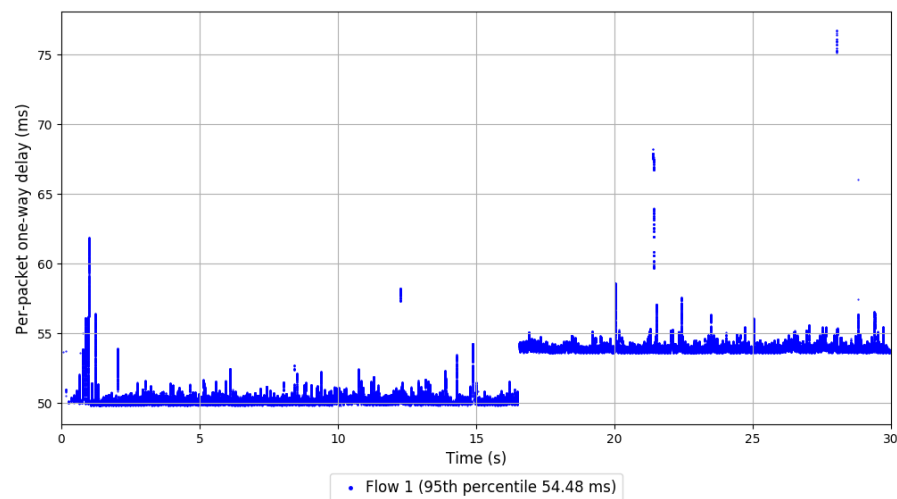
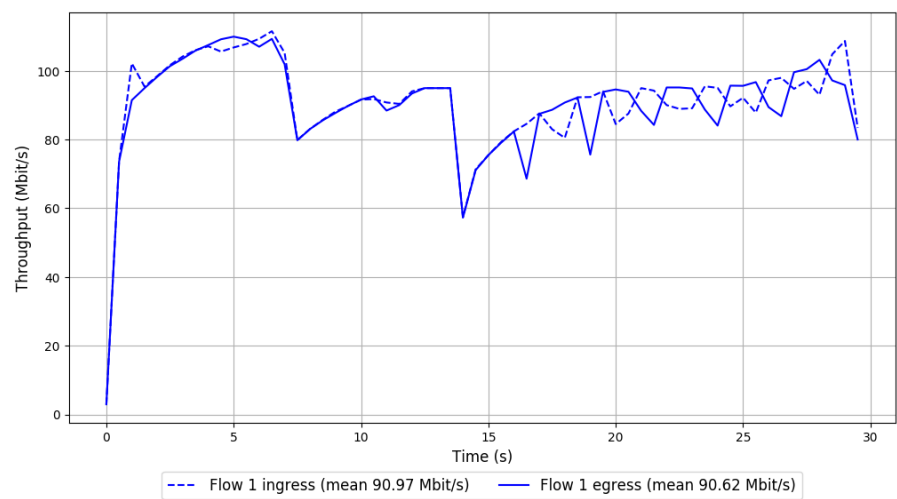
-- Flow 1:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 54.480 ms

Loss rate: 0.73%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-13 03:41:42

End at: 2018-02-13 03:42:12

Below is generated by plot.py at 2018-02-13 08:12:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.44 Mbit/s

95th percentile per-packet one-way delay: 59.467 ms

Loss rate: 0.70%

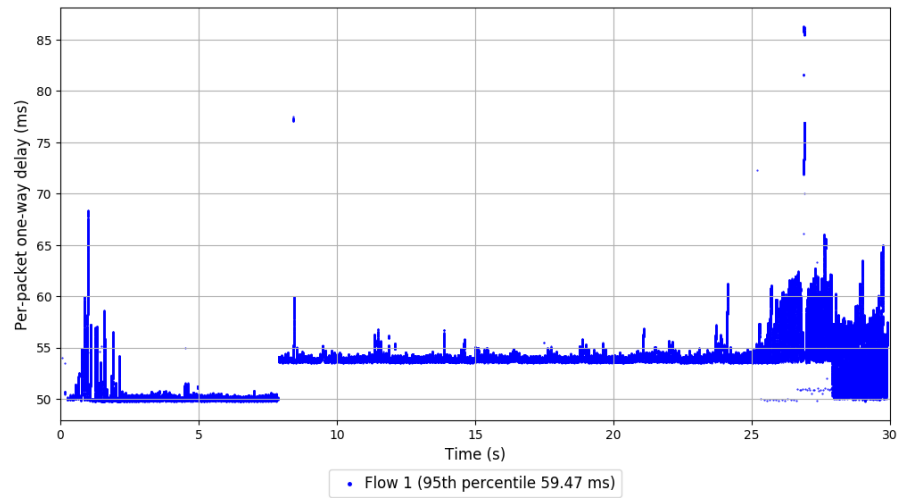
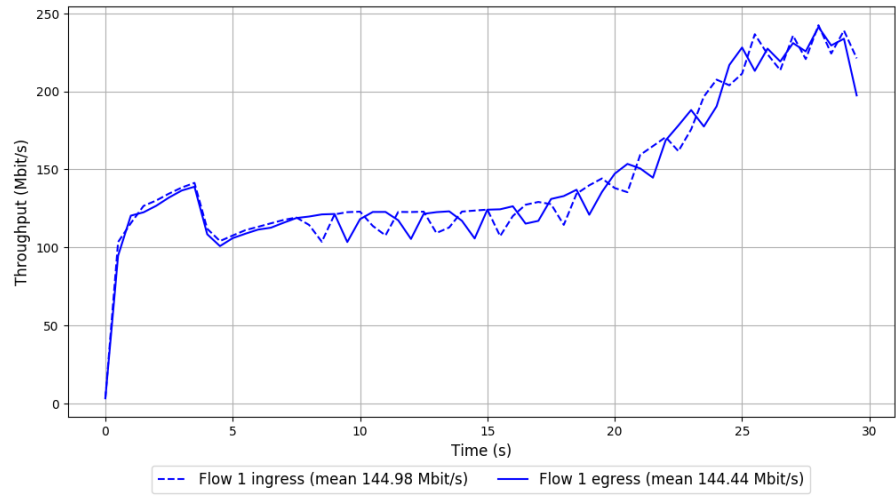
-- Flow 1:

Average throughput: 144.44 Mbit/s

95th percentile per-packet one-way delay: 59.467 ms

Loss rate: 0.70%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-13 03:56:01

End at: 2018-02-13 03:56:31

Below is generated by plot.py at 2018-02-13 08:12:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 54.262 ms

Loss rate: 0.86%

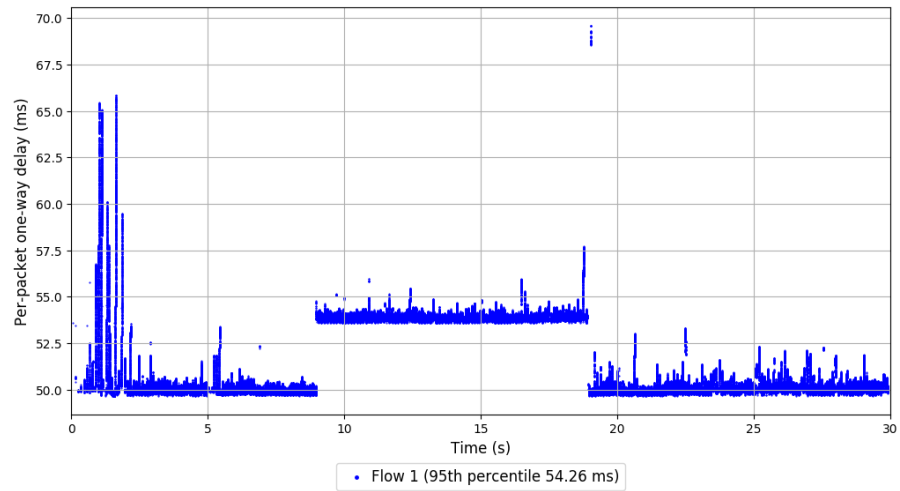
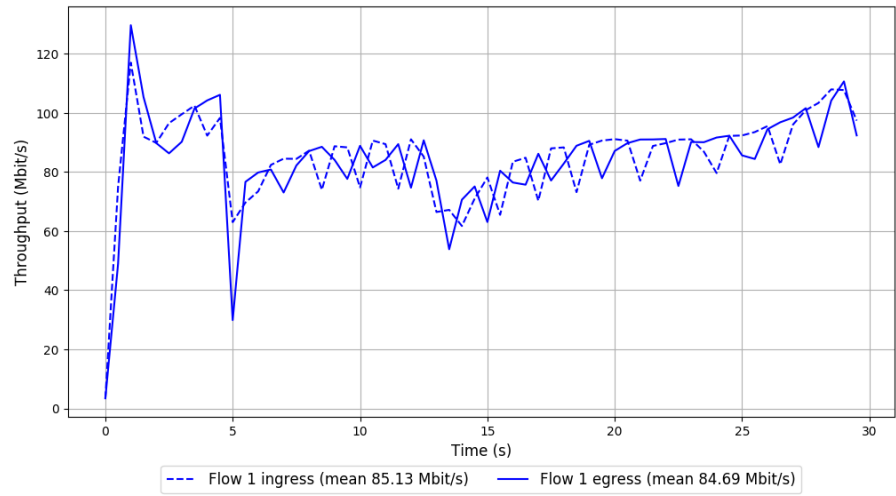
-- Flow 1:

Average throughput: 84.69 Mbit/s

95th percentile per-packet one-way delay: 54.262 ms

Loss rate: 0.86%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-13 04:10:16

End at: 2018-02-13 04:10:46

Below is generated by plot.py at 2018-02-13 08:12:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.46 Mbit/s

95th percentile per-packet one-way delay: 54.615 ms

Loss rate: 0.68%

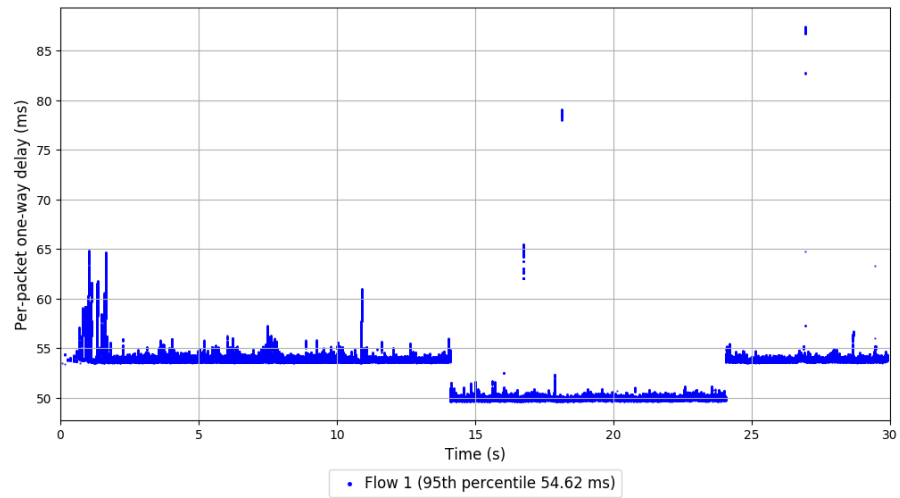
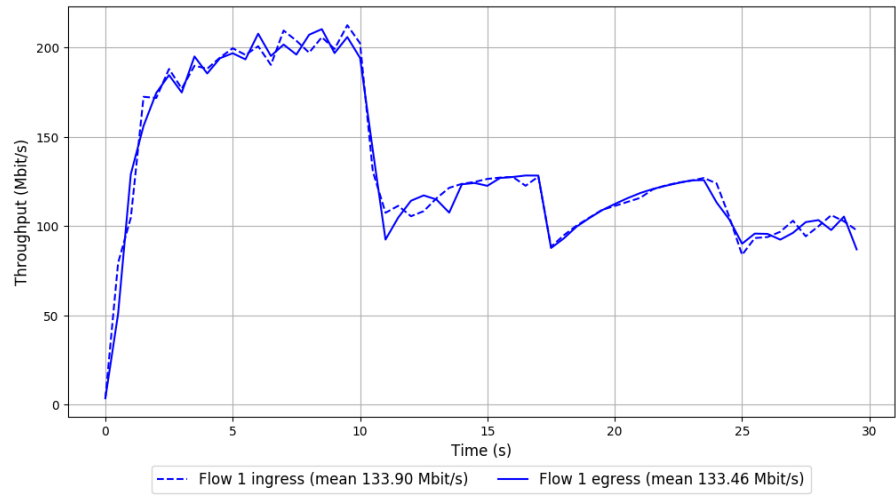
-- Flow 1:

Average throughput: 133.46 Mbit/s

95th percentile per-packet one-way delay: 54.615 ms

Loss rate: 0.68%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-13 04:24:35

End at: 2018-02-13 04:25:05

Below is generated by plot.py at 2018-02-13 08:12:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.87 Mbit/s

95th percentile per-packet one-way delay: 60.020 ms

Loss rate: 0.37%

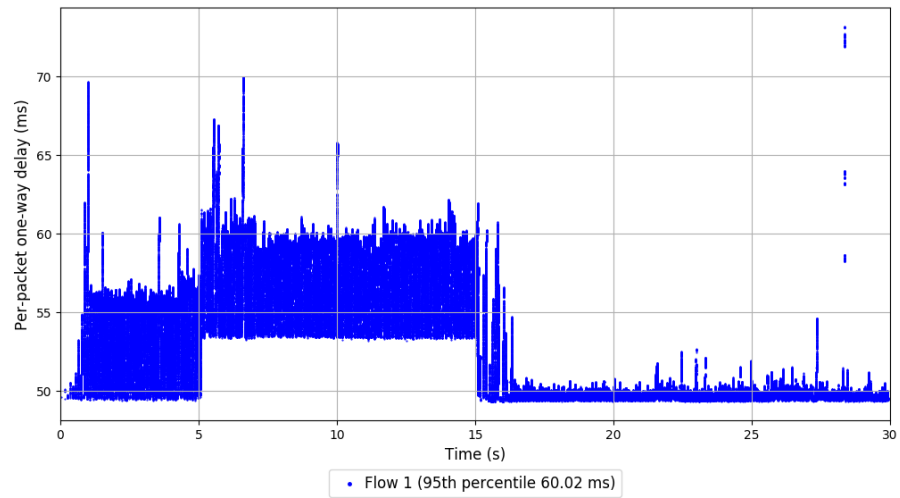
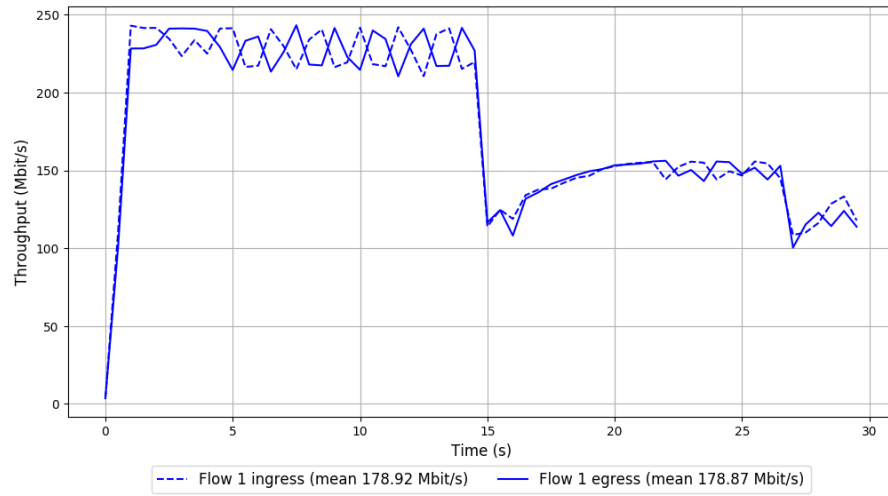
-- Flow 1:

Average throughput: 178.87 Mbit/s

95th percentile per-packet one-way delay: 60.020 ms

Loss rate: 0.37%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-13 04:39:27

End at: 2018-02-13 04:39:57

Below is generated by plot.py at 2018-02-13 08:12:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.77 Mbit/s

95th percentile per-packet one-way delay: 57.102 ms

Loss rate: 0.94%

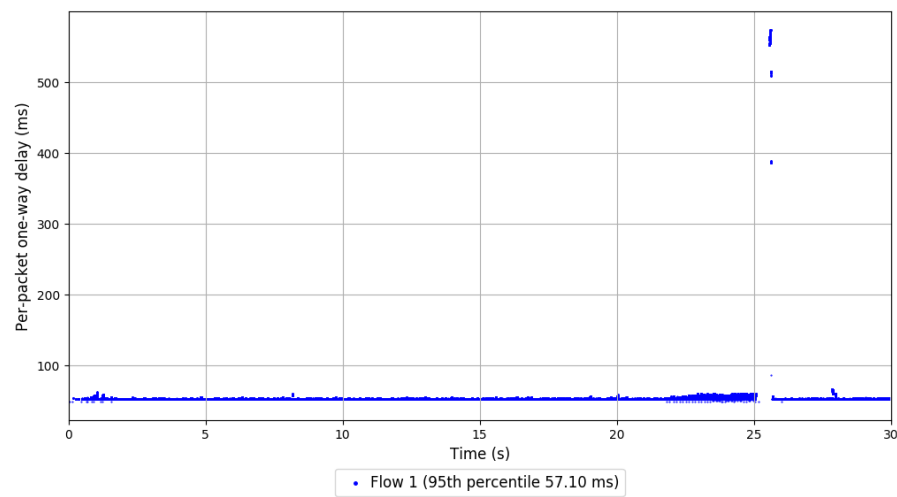
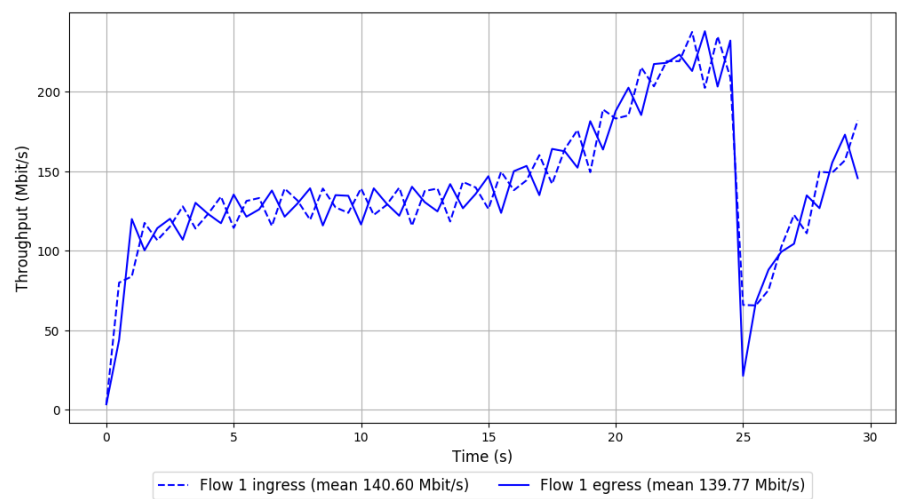
-- Flow 1:

Average throughput: 139.77 Mbit/s

95th percentile per-packet one-way delay: 57.102 ms

Loss rate: 0.94%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-13 04:53:46

End at: 2018-02-13 04:54:16

Below is generated by plot.py at 2018-02-13 08:12:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.44 Mbit/s

95th percentile per-packet one-way delay: 58.559 ms

Loss rate: 0.64%

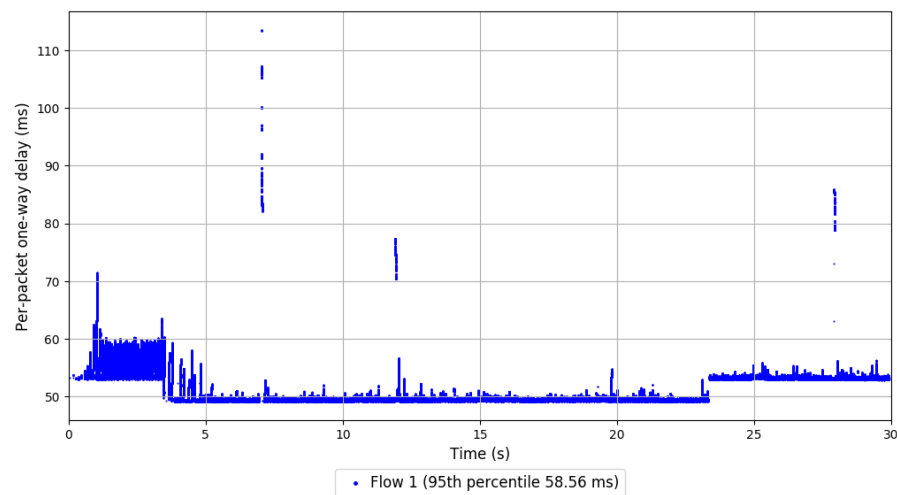
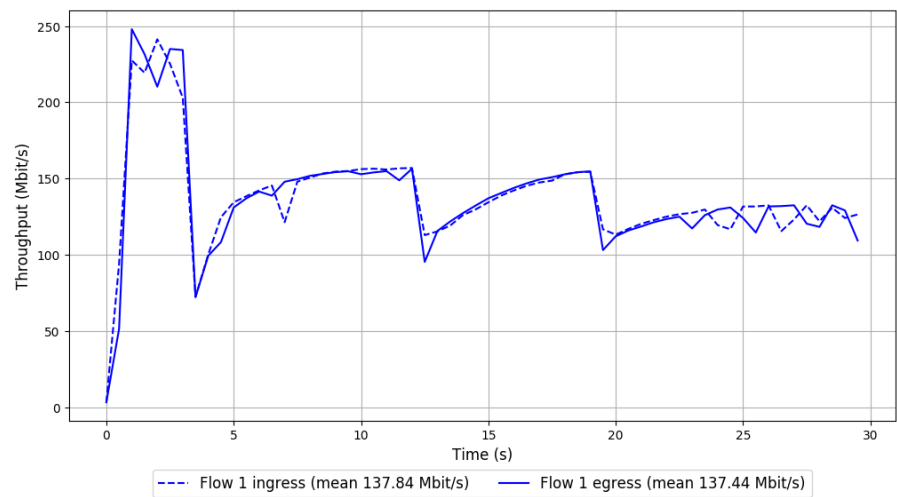
-- Flow 1:

Average throughput: 137.44 Mbit/s

95th percentile per-packet one-way delay: 58.559 ms

Loss rate: 0.64%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-13 05:08:06

End at: 2018-02-13 05:08:36

Below is generated by plot.py at 2018-02-13 08:12:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.48 Mbit/s

95th percentile per-packet one-way delay: 54.076 ms

Loss rate: 0.46%

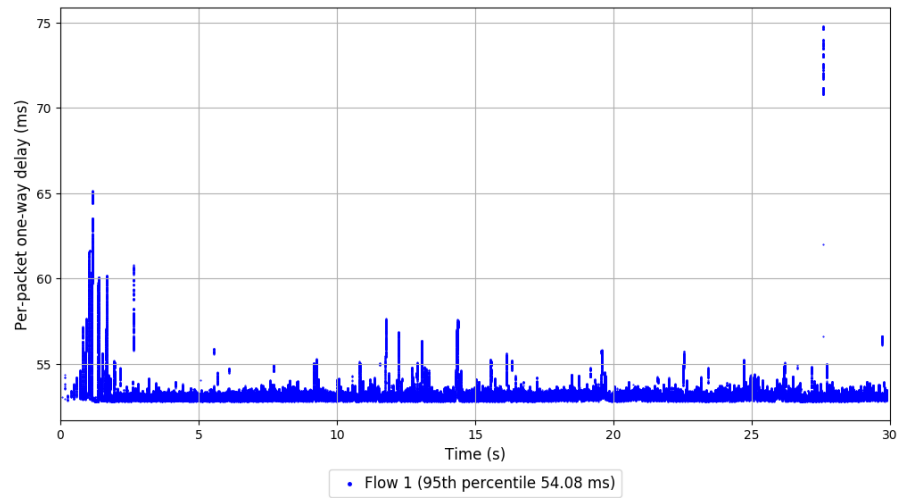
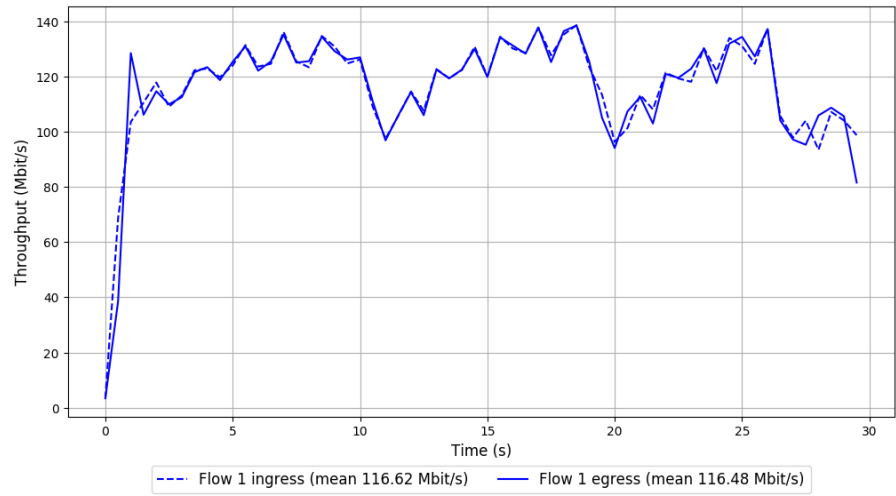
-- Flow 1:

Average throughput: 116.48 Mbit/s

95th percentile per-packet one-way delay: 54.076 ms

Loss rate: 0.46%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 05:22:36

End at: 2018-02-13 05:23:06

Below is generated by plot.py at 2018-02-13 08:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.85 Mbit/s

95th percentile per-packet one-way delay: 61.357 ms

Loss rate: 0.22%

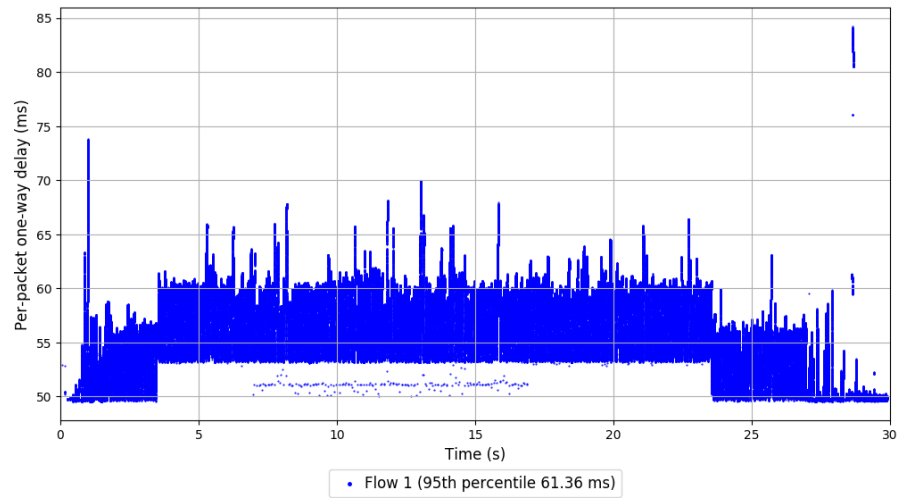
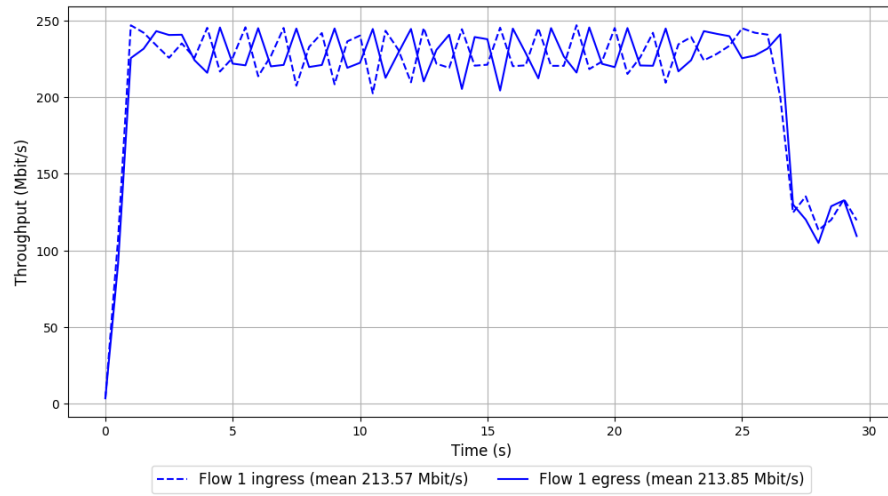
-- Flow 1:

Average throughput: 213.85 Mbit/s

95th percentile per-packet one-way delay: 61.357 ms

Loss rate: 0.22%

Run 10: Report of TCP Cubic — Data Link

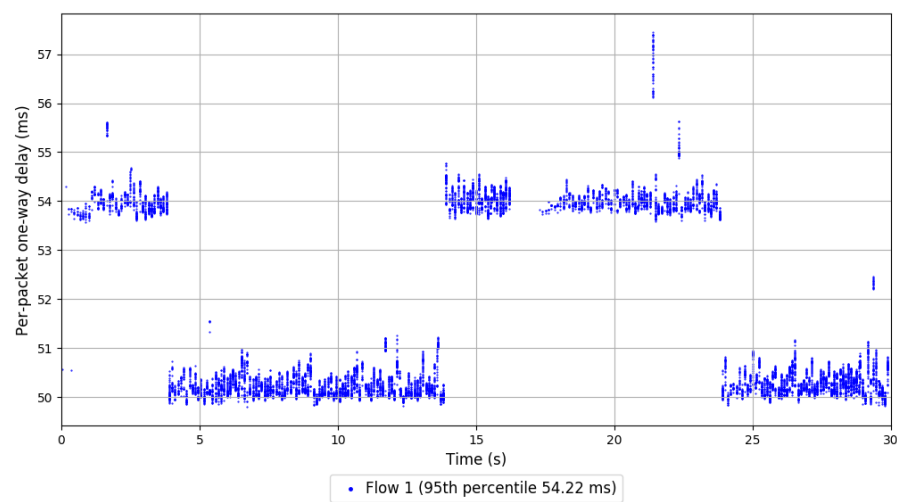
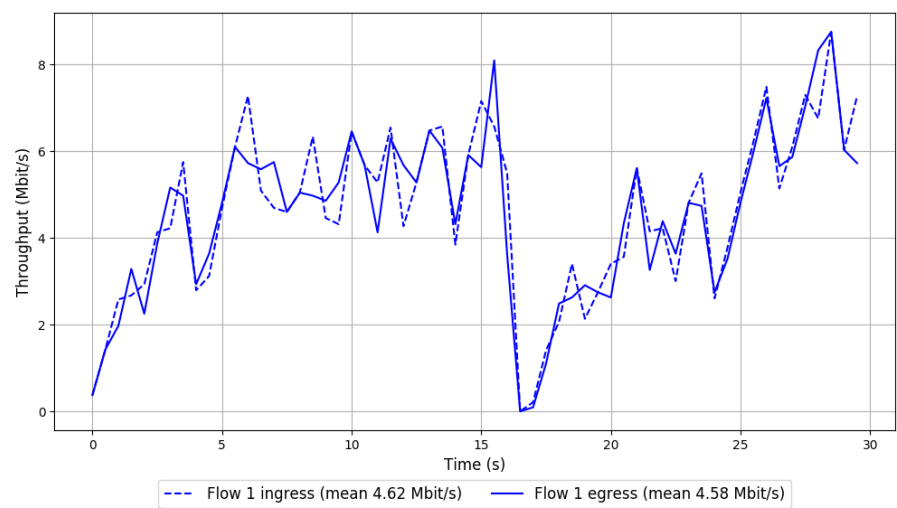


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-13 03:07:26
End at: 2018-02-13 03:07:56

# Below is generated by plot.py at 2018-02-13 08:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 54.215 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 4.58 Mbit/s
95th percentile per-packet one-way delay: 54.215 ms
Loss rate: 1.28%
```


Run 1: Report of LEDBAT — Data Link

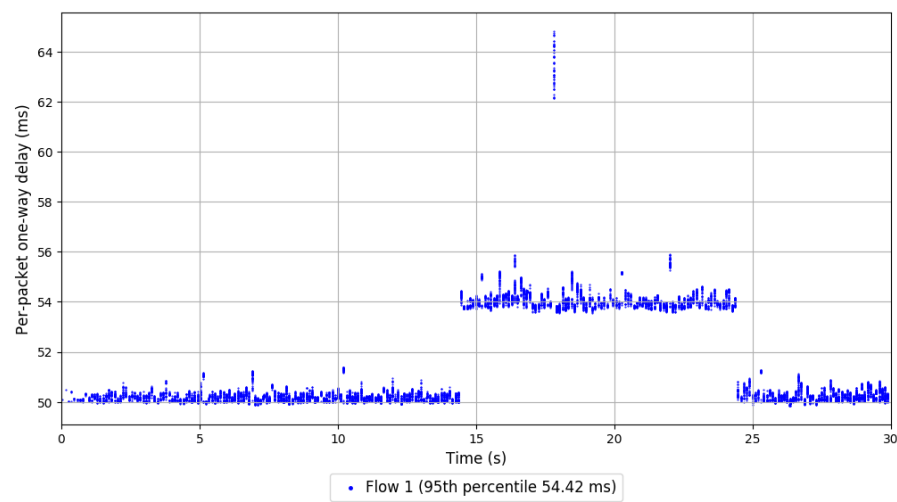
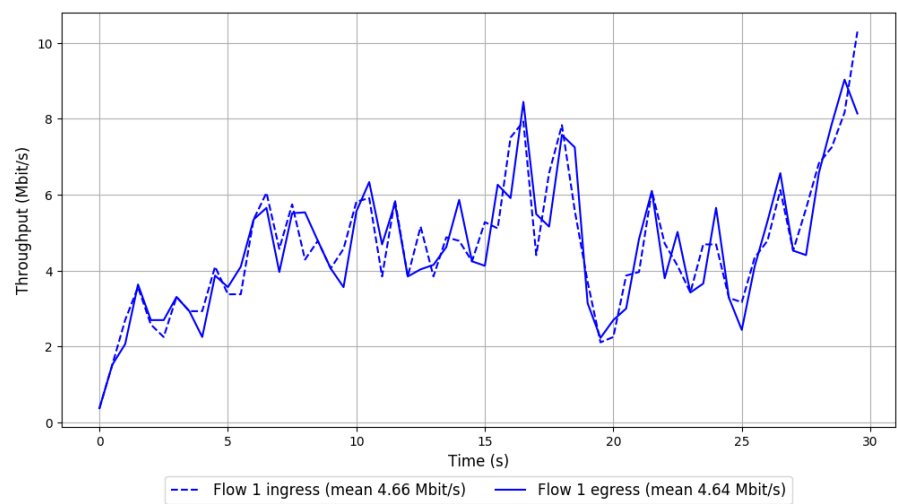


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-13 03:21:45
End at: 2018-02-13 03:22:15

# Below is generated by plot.py at 2018-02-13 08:14:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 54.419 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 4.64 Mbit/s
95th percentile per-packet one-way delay: 54.419 ms
Loss rate: 0.84%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-13 03:36:06

End at: 2018-02-13 03:36:36

Below is generated by plot.py at 2018-02-13 08:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.124 ms

Loss rate: 0.93%

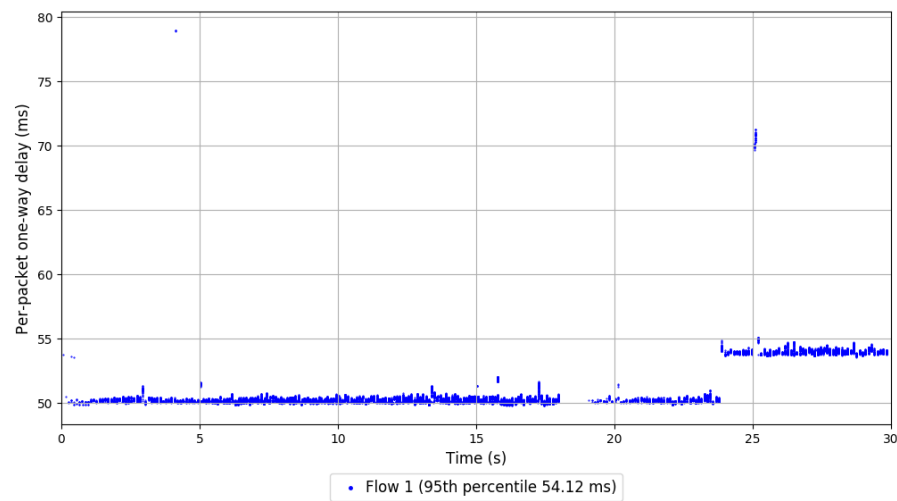
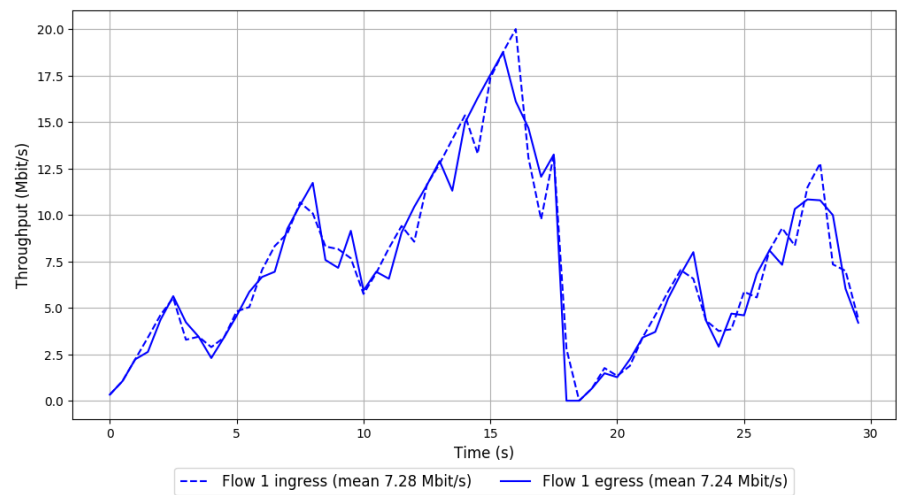
-- Flow 1:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.124 ms

Loss rate: 0.93%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-13 03:50:29

End at: 2018-02-13 03:50:59

Below is generated by plot.py at 2018-02-13 08:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.499 ms

Loss rate: 0.37%

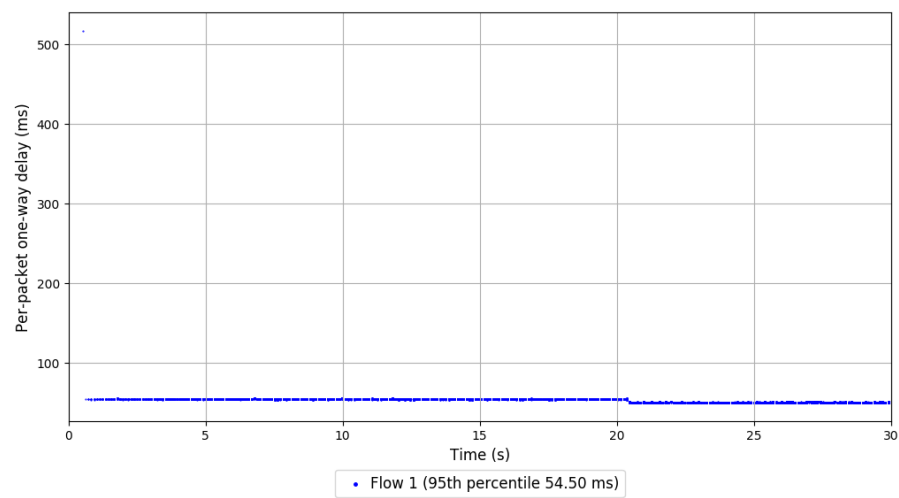
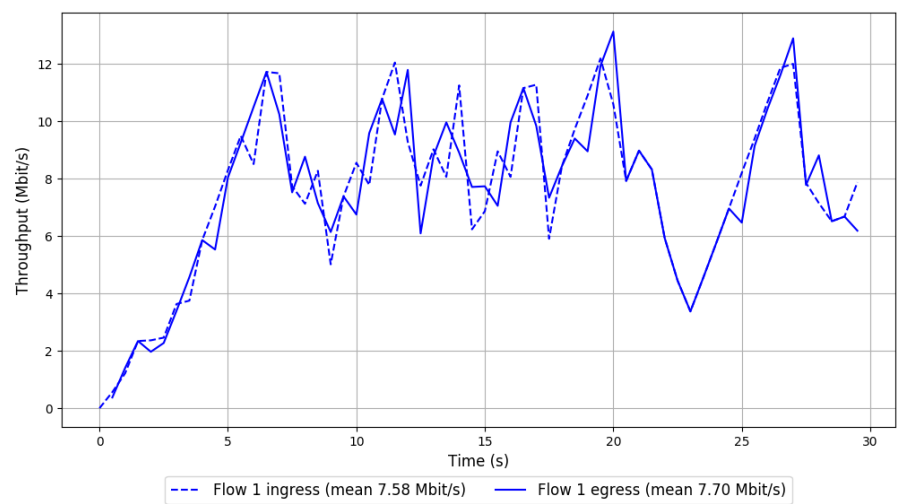
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.499 ms

Loss rate: 0.37%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-13 04:04:42

End at: 2018-02-13 04:05:12

Below is generated by plot.py at 2018-02-13 08:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 54.241 ms

Loss rate: 0.97%

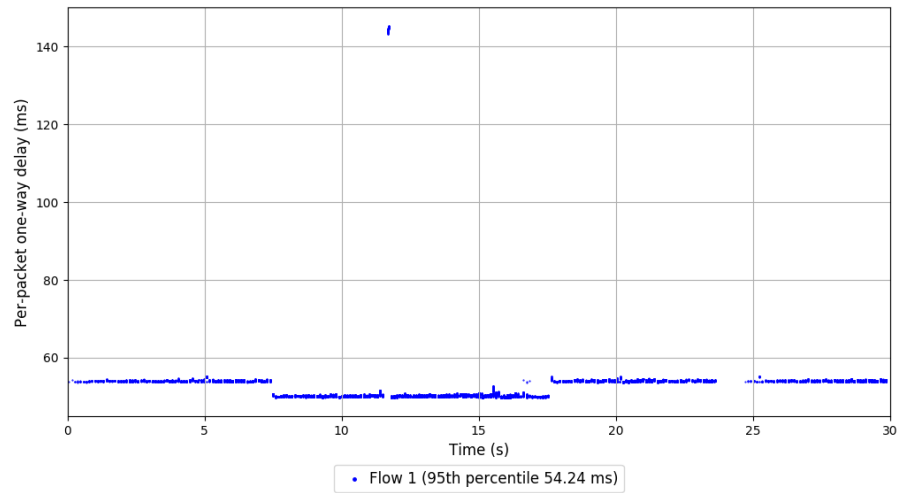
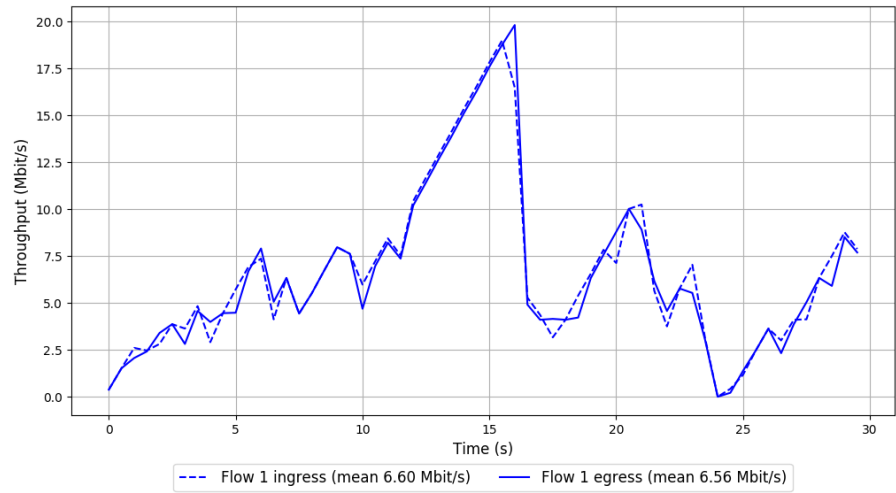
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 54.241 ms

Loss rate: 0.97%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-13 04:19:06

End at: 2018-02-13 04:19:36

Below is generated by plot.py at 2018-02-13 08:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 54.038 ms

Loss rate: 0.38%

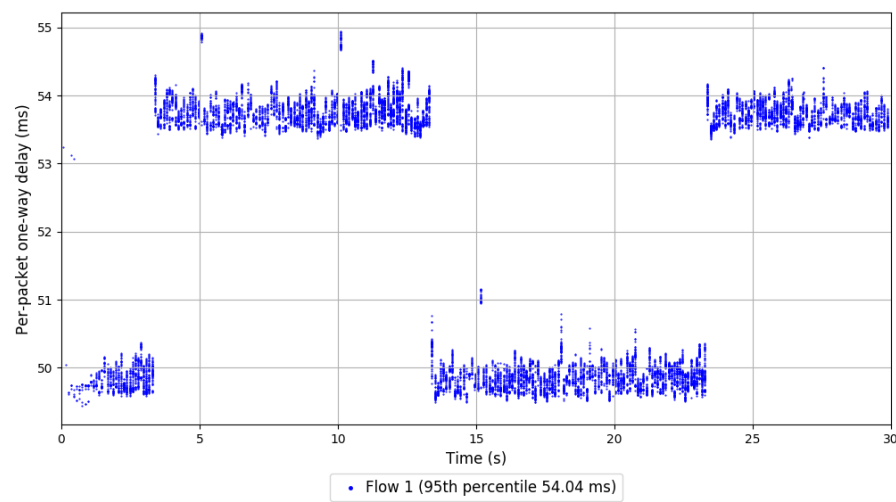
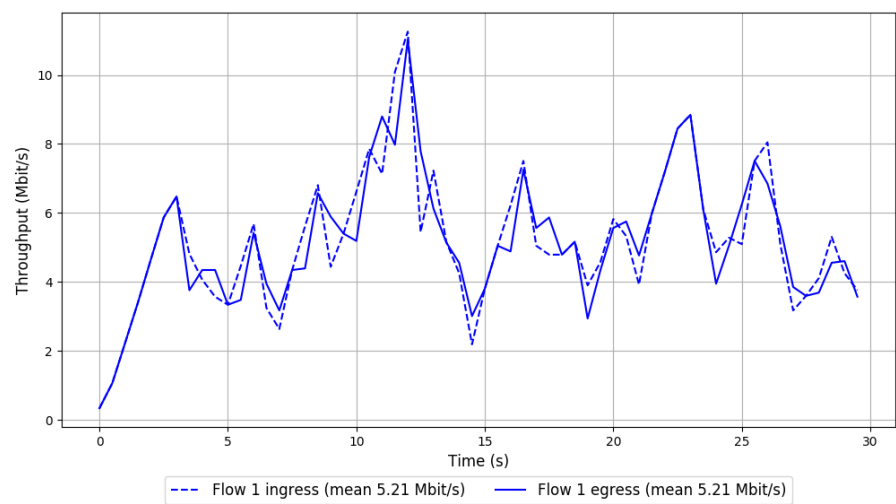
-- Flow 1:

Average throughput: 5.21 Mbit/s

95th percentile per-packet one-way delay: 54.038 ms

Loss rate: 0.38%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-13 04:33:46

End at: 2018-02-13 04:34:16

Below is generated by plot.py at 2018-02-13 08:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 0.60%

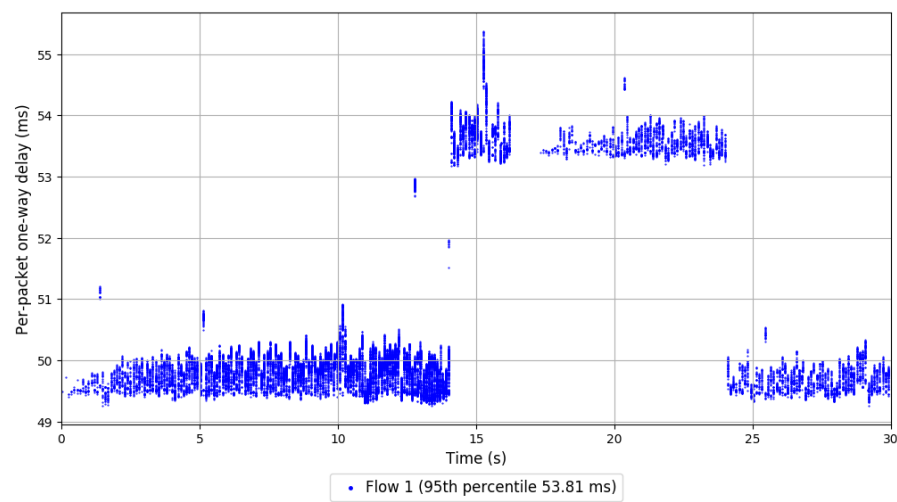
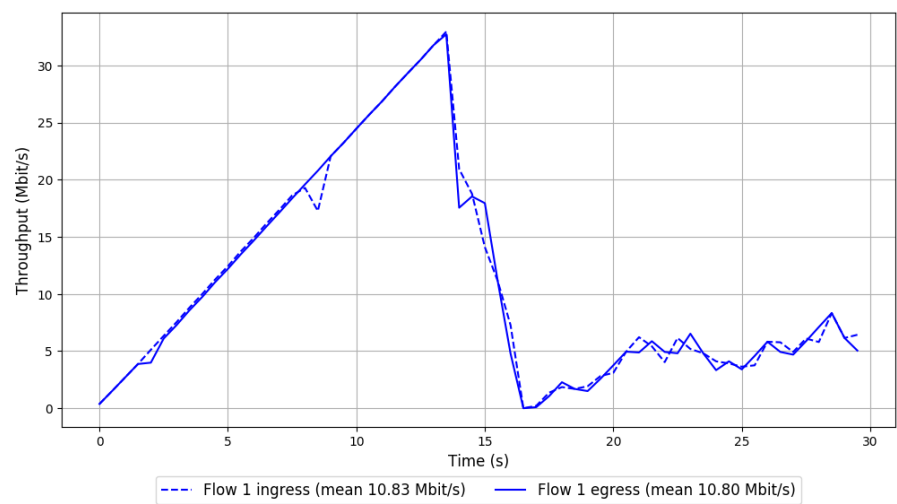
-- Flow 1:

Average throughput: 10.80 Mbit/s

95th percentile per-packet one-way delay: 53.806 ms

Loss rate: 0.60%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-13 04:48:09

End at: 2018-02-13 04:48:39

Below is generated by plot.py at 2018-02-13 08:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.25 Mbit/s

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

Loss rate: 0.33%

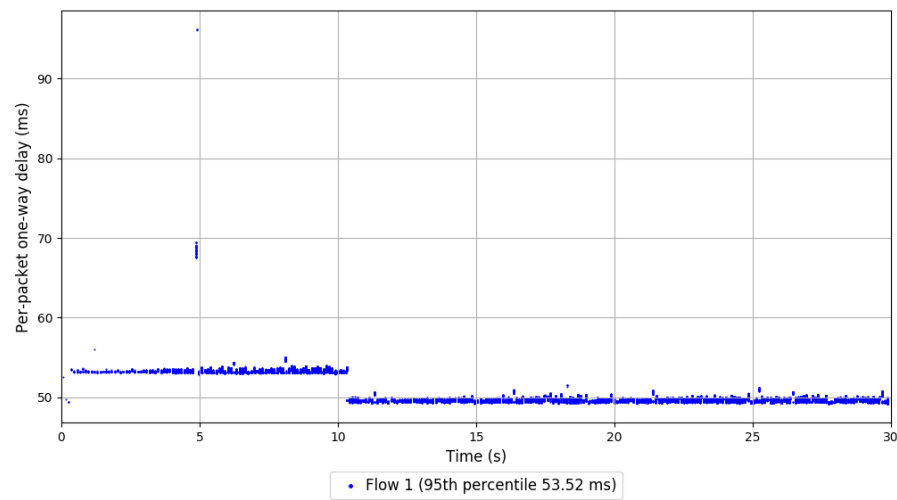
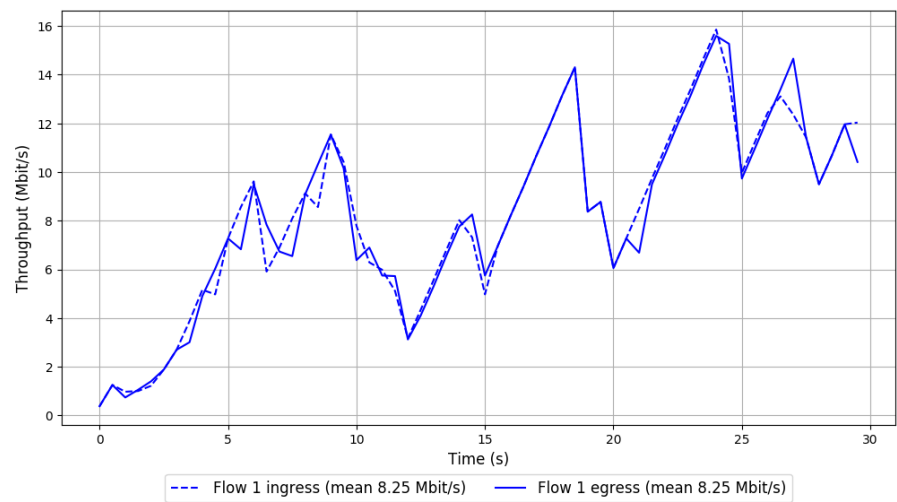
-- Flow 1:

Average throughput: 8.25 Mbit/s

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

Loss rate: 0.33%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

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

End at: 2018-02-13 05:03:06

Below is generated by plot.py at 2018-02-13 08:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.31%

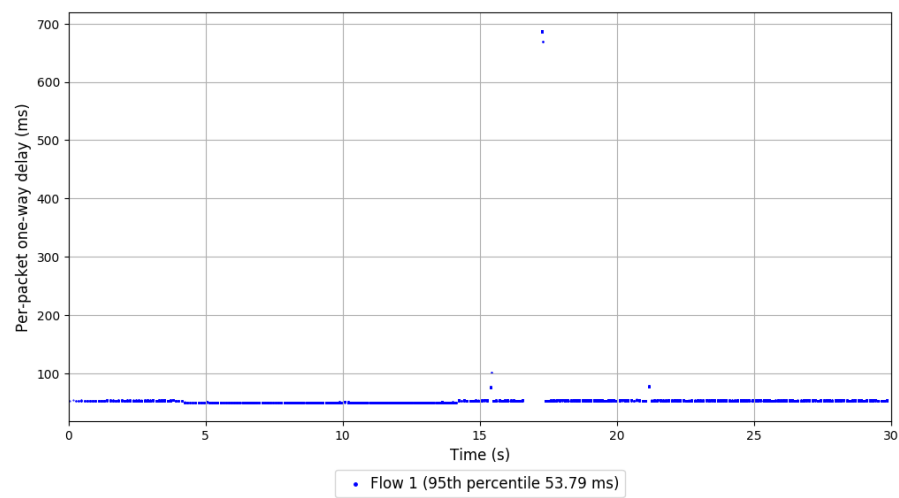
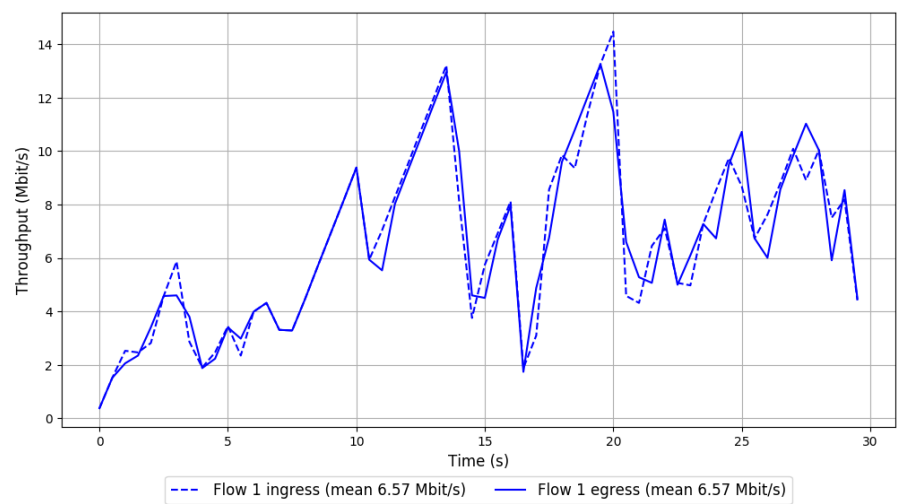
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.31%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-13 05:16:57

End at: 2018-02-13 05:17:27

Below is generated by plot.py at 2018-02-13 08:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 53.406 ms

Loss rate: 0.30%

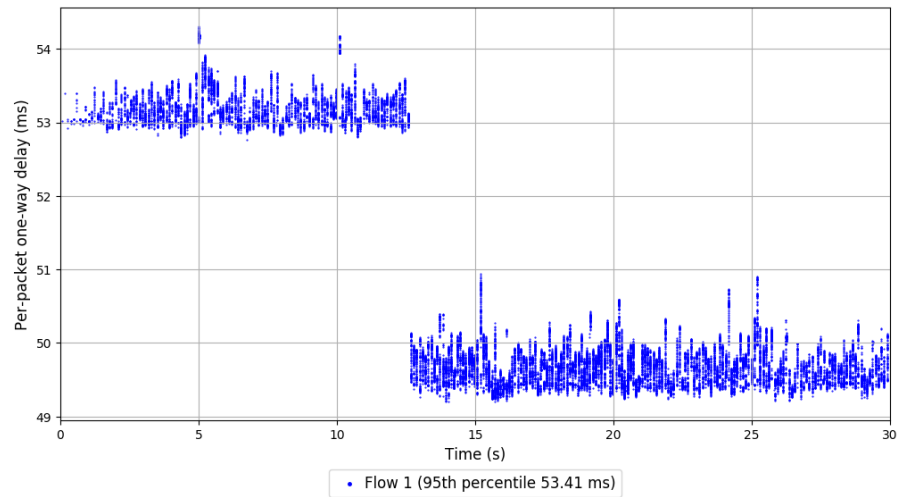
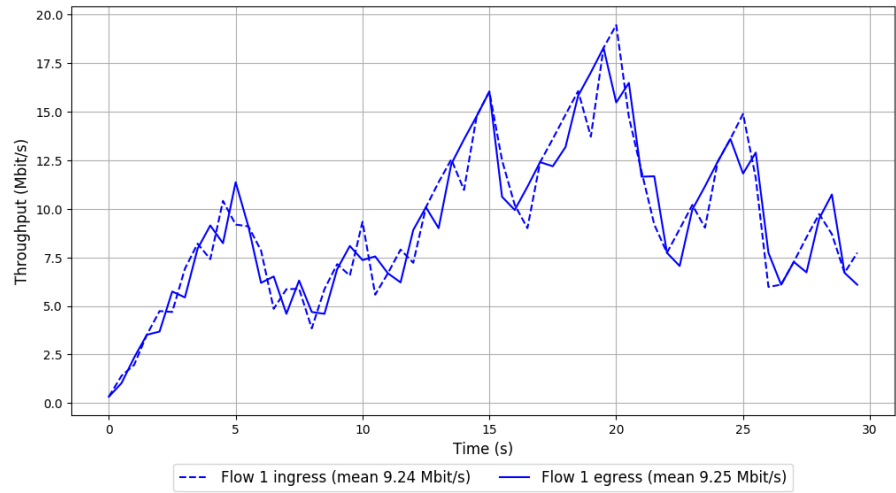
-- Flow 1:

Average throughput: 9.25 Mbit/s

95th percentile per-packet one-way delay: 53.406 ms

Loss rate: 0.30%

Run 10: Report of LEDBAT — Data Link

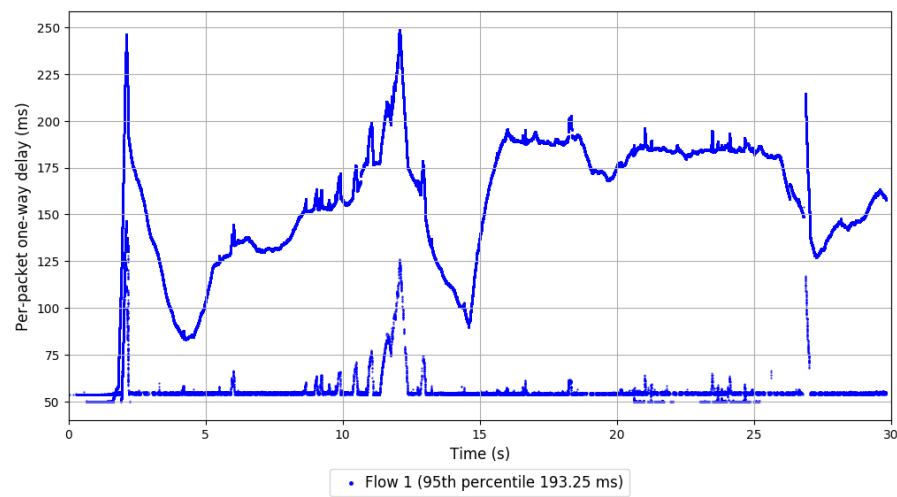
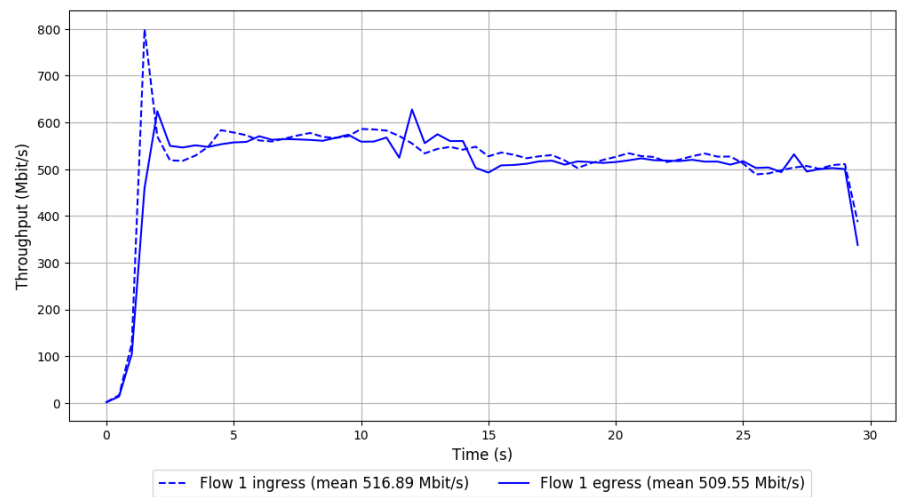


```
Run 1: Statistics of PCC

Start at: 2018-02-13 03:13:39
End at: 2018-02-13 03:14:09

# Below is generated by plot.py at 2018-02-13 08:20:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 509.55 Mbit/s
95th percentile per-packet one-way delay: 193.250 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 509.55 Mbit/s
95th percentile per-packet one-way delay: 193.250 ms
Loss rate: 1.77%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-13 03:28:04

End at: 2018-02-13 03:28:34

Below is generated by plot.py at 2018-02-13 08:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.57 Mbit/s

95th percentile per-packet one-way delay: 140.774 ms

Loss rate: 0.80%

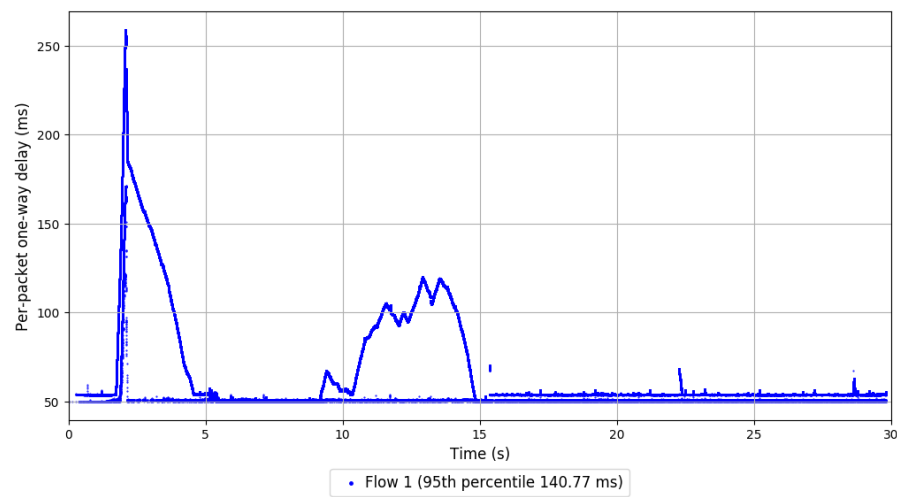
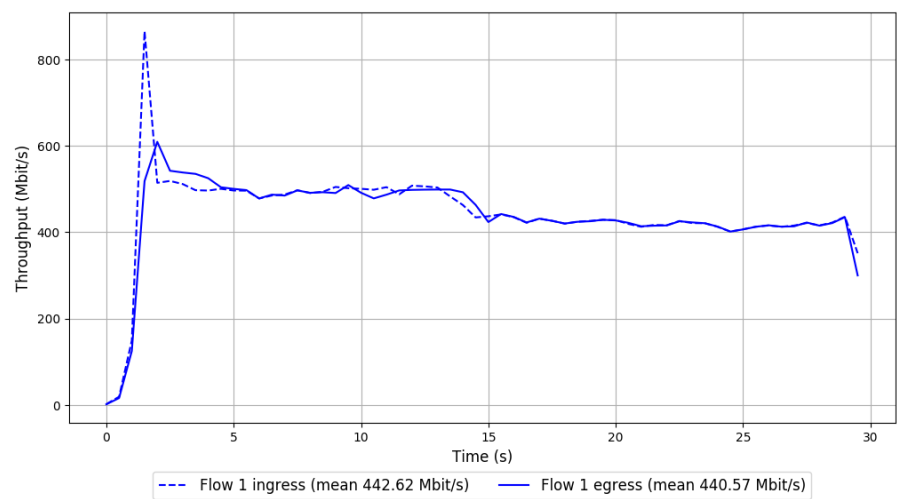
-- Flow 1:

Average throughput: 440.57 Mbit/s

95th percentile per-packet one-way delay: 140.774 ms

Loss rate: 0.80%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-13 03:42:26

End at: 2018-02-13 03:42:56

Below is generated by plot.py at 2018-02-13 08:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.22 Mbit/s

95th percentile per-packet one-way delay: 194.946 ms

Loss rate: 2.51%

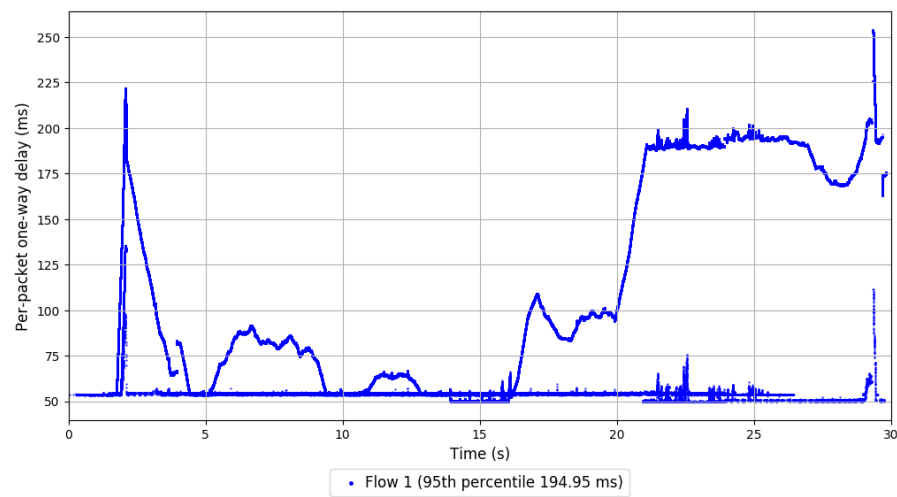
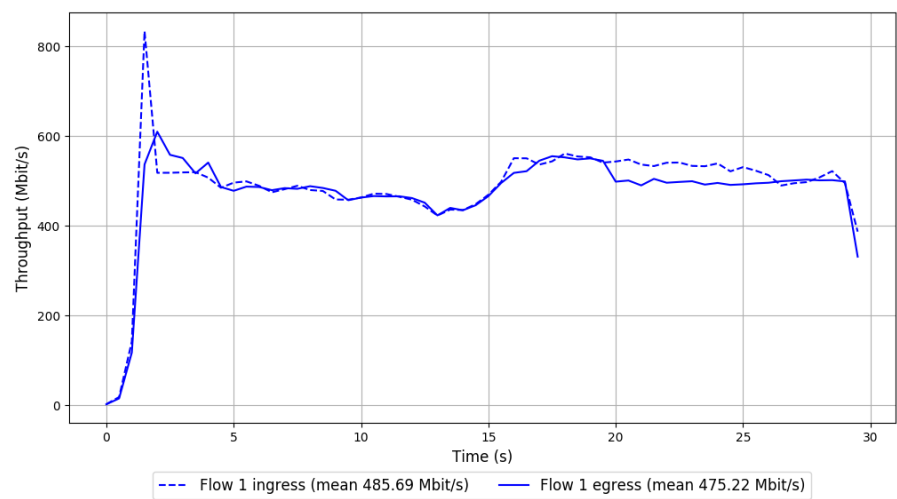
-- Flow 1:

Average throughput: 475.22 Mbit/s

95th percentile per-packet one-way delay: 194.946 ms

Loss rate: 2.51%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-13 03:56:42

End at: 2018-02-13 03:57:12

Below is generated by plot.py at 2018-02-13 08:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.98 Mbit/s

95th percentile per-packet one-way delay: 196.718 ms

Loss rate: 1.65%

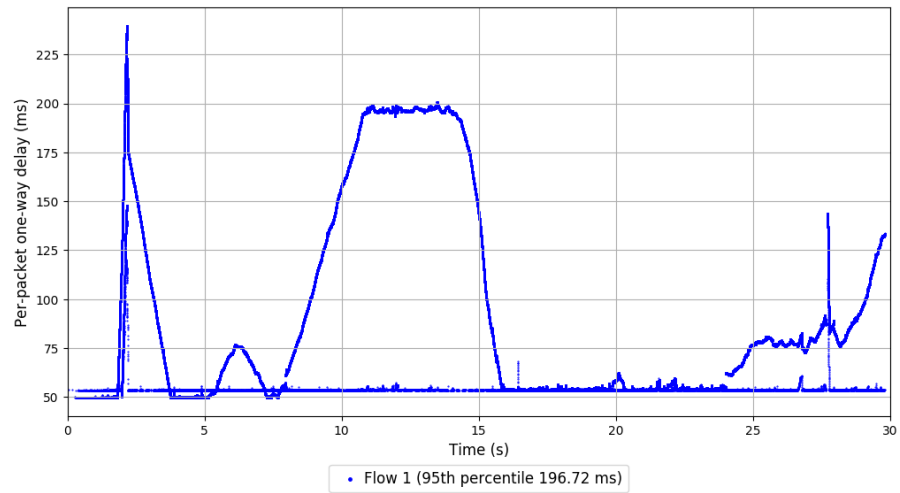
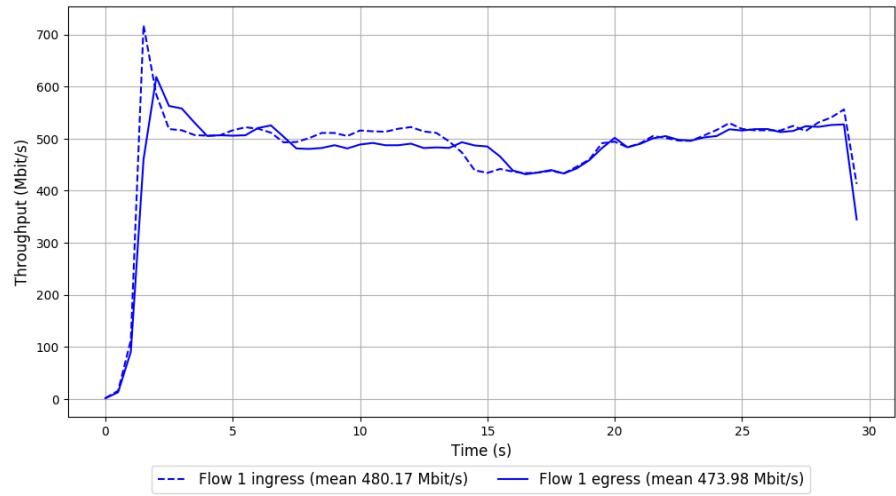
-- Flow 1:

Average throughput: 473.98 Mbit/s

95th percentile per-packet one-way delay: 196.718 ms

Loss rate: 1.65%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-13 04:10:59

End at: 2018-02-13 04:11:29

Below is generated by plot.py at 2018-02-13 08:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.53 Mbit/s

95th percentile per-packet one-way delay: 184.463 ms

Loss rate: 0.75%

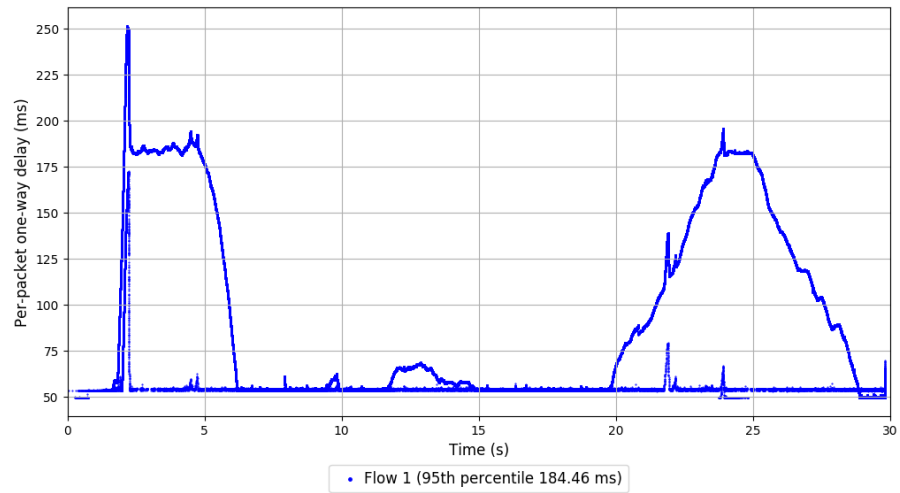
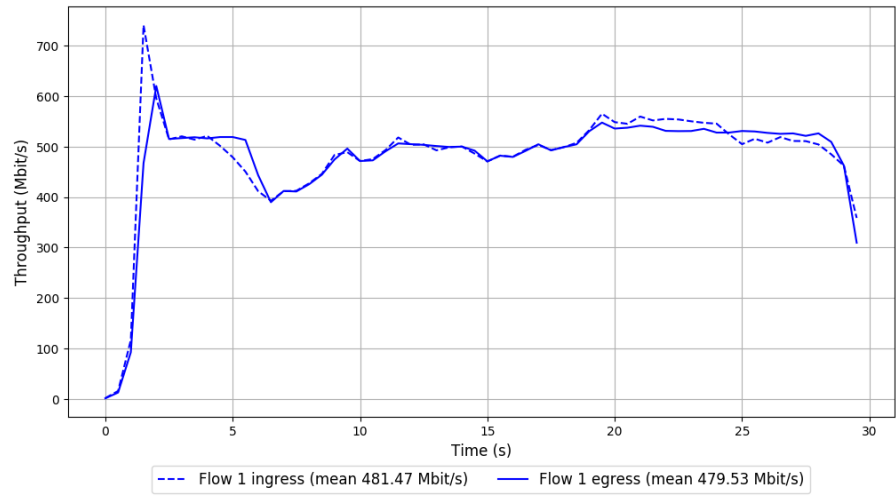
-- Flow 1:

Average throughput: 479.53 Mbit/s

95th percentile per-packet one-way delay: 184.463 ms

Loss rate: 0.75%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-13 04:25:20

End at: 2018-02-13 04:25:50

Below is generated by plot.py at 2018-02-13 08:21:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.93 Mbit/s

95th percentile per-packet one-way delay: 155.180 ms

Loss rate: 0.78%

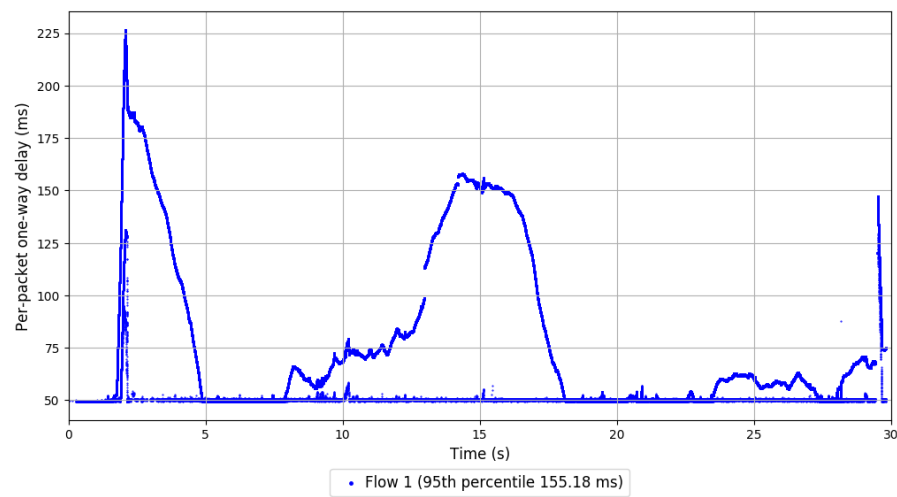
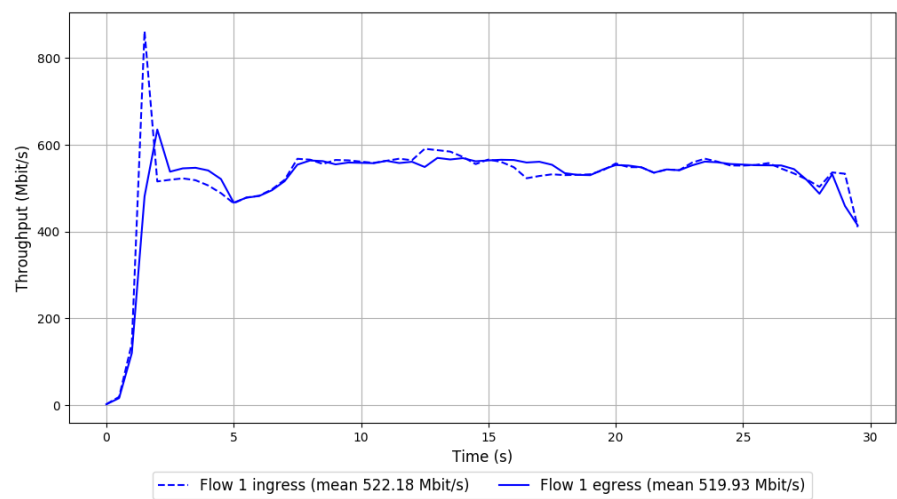
-- Flow 1:

Average throughput: 519.93 Mbit/s

95th percentile per-packet one-way delay: 155.180 ms

Loss rate: 0.78%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-13 04:40:11

End at: 2018-02-13 04:40:41

Below is generated by plot.py at 2018-02-13 08:21:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.94 Mbit/s

95th percentile per-packet one-way delay: 199.787 ms

Loss rate: 1.35%

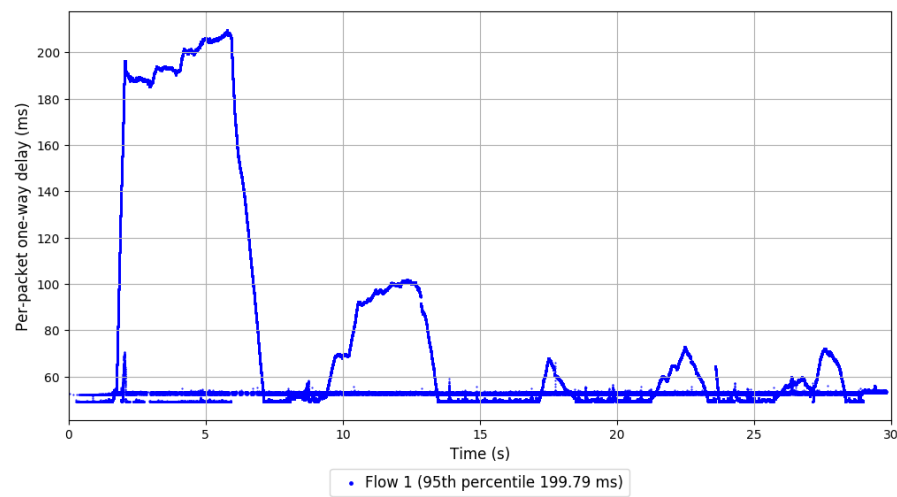
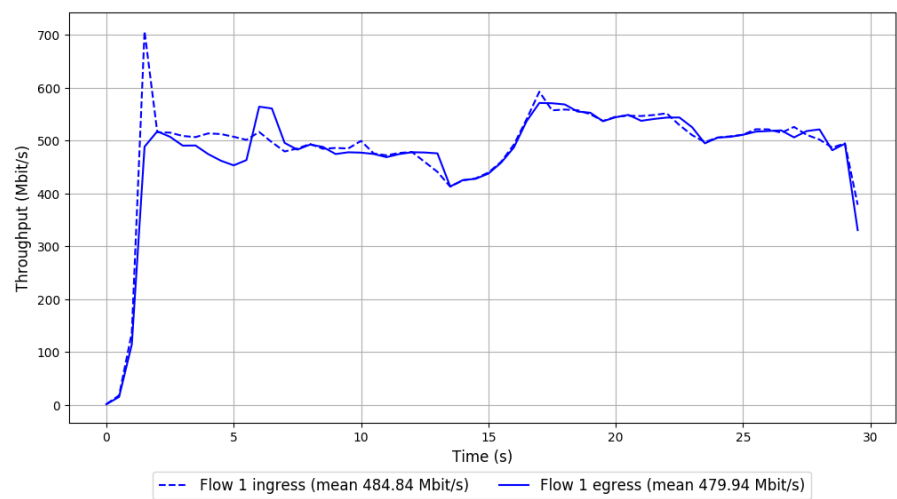
-- Flow 1:

Average throughput: 479.94 Mbit/s

95th percentile per-packet one-way delay: 199.787 ms

Loss rate: 1.35%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-13 04:54:30

End at: 2018-02-13 04:55:00

Below is generated by plot.py at 2018-02-13 08:23:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.51 Mbit/s

95th percentile per-packet one-way delay: 180.154 ms

Loss rate: 0.89%

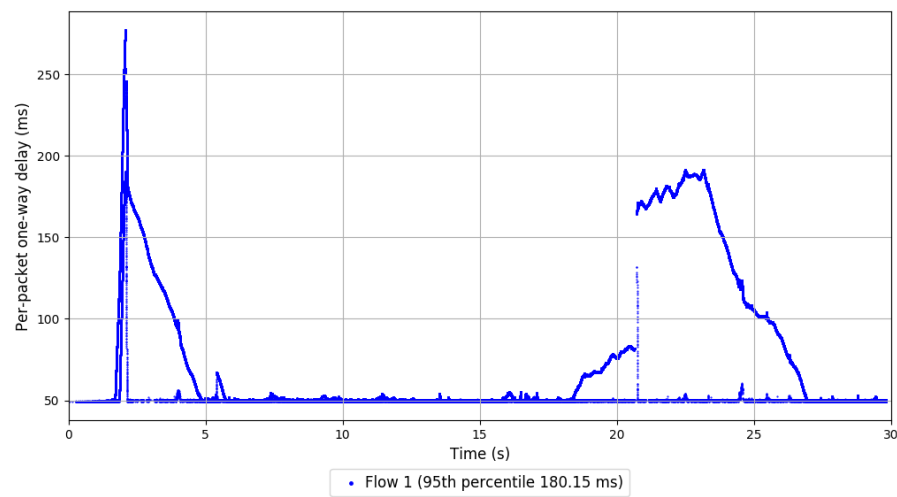
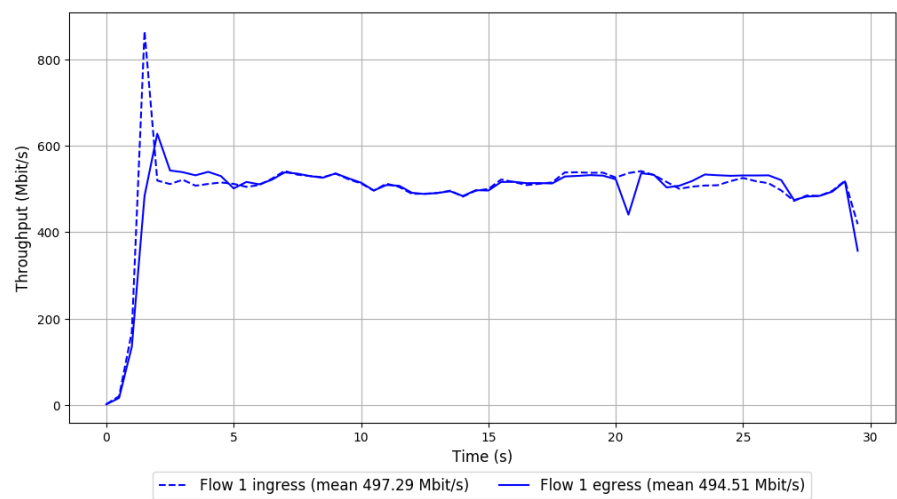
-- Flow 1:

Average throughput: 494.51 Mbit/s

95th percentile per-packet one-way delay: 180.154 ms

Loss rate: 0.89%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-13 05:08:48

End at: 2018-02-13 05:09:18

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 478.25 Mbit/s

95th percentile per-packet one-way delay: 170.818 ms

Loss rate: 1.00%

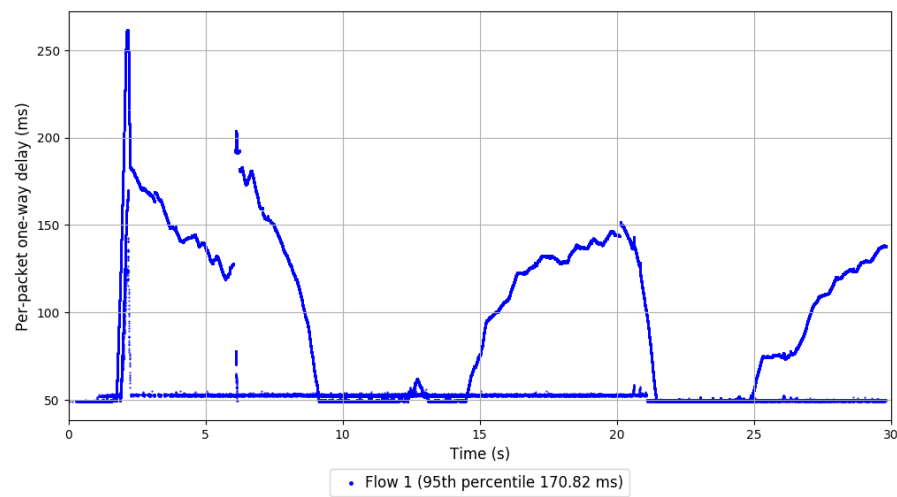
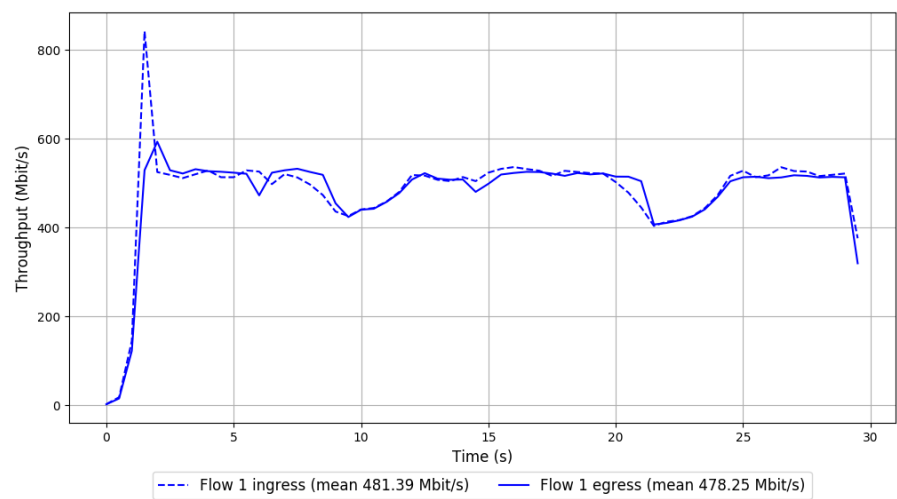
-- Flow 1:

Average throughput: 478.25 Mbit/s

95th percentile per-packet one-way delay: 170.818 ms

Loss rate: 1.00%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-13 05:23:23

End at: 2018-02-13 05:23:53

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.14 Mbit/s

95th percentile per-packet one-way delay: 53.866 ms

Loss rate: 0.44%

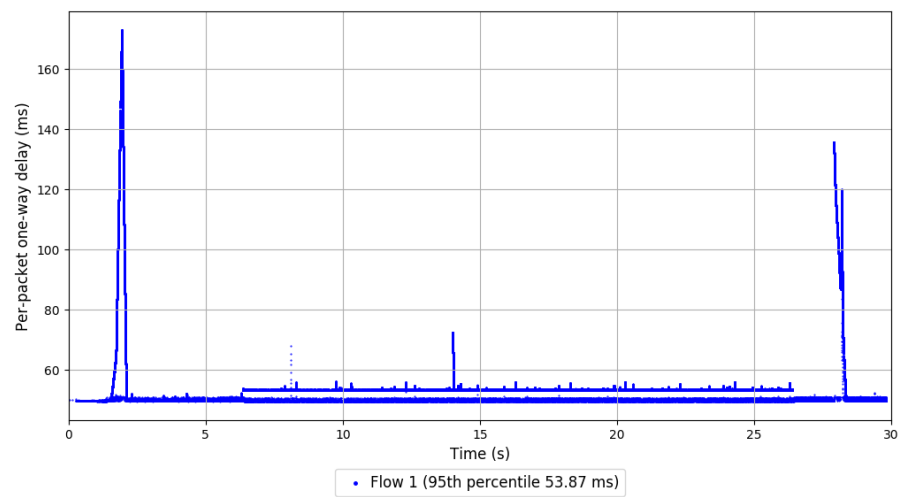
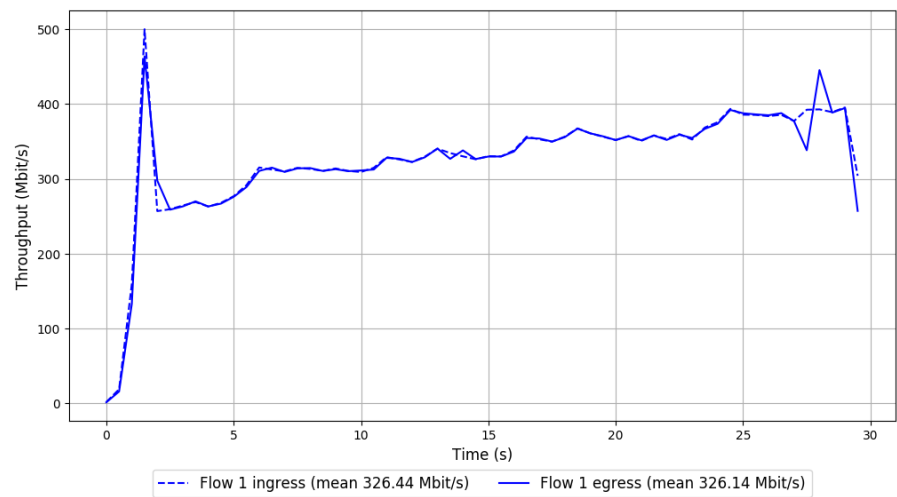
-- Flow 1:

Average throughput: 326.14 Mbit/s

95th percentile per-packet one-way delay: 53.866 ms

Loss rate: 0.44%

Run 10: Report of PCC — Data Link

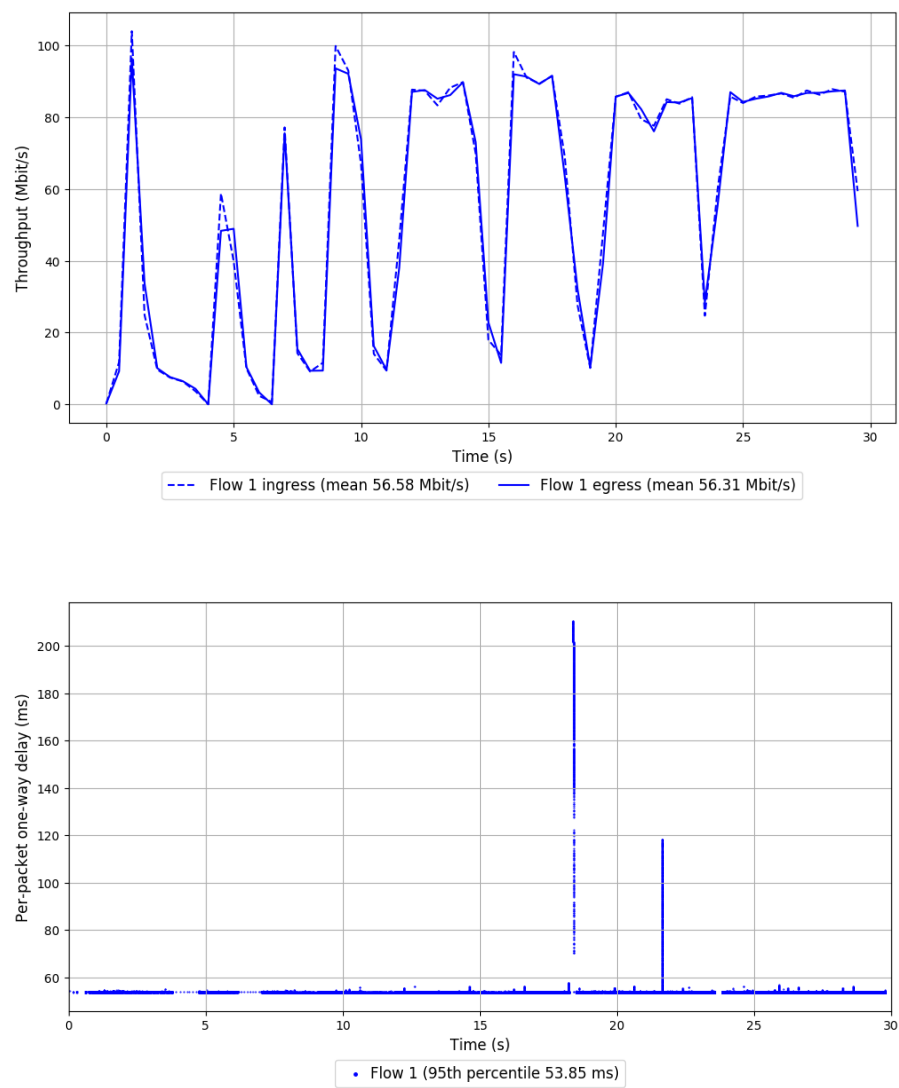


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 03:20:25
End at: 2018-02-13 03:20:55

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 56.31 Mbit/s
95th percentile per-packet one-way delay: 53.851 ms
Loss rate: 0.83%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-13 03:34:44

End at: 2018-02-13 03:35:14

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.71 Mbit/s

95th percentile per-packet one-way delay: 53.715 ms

Loss rate: 0.71%

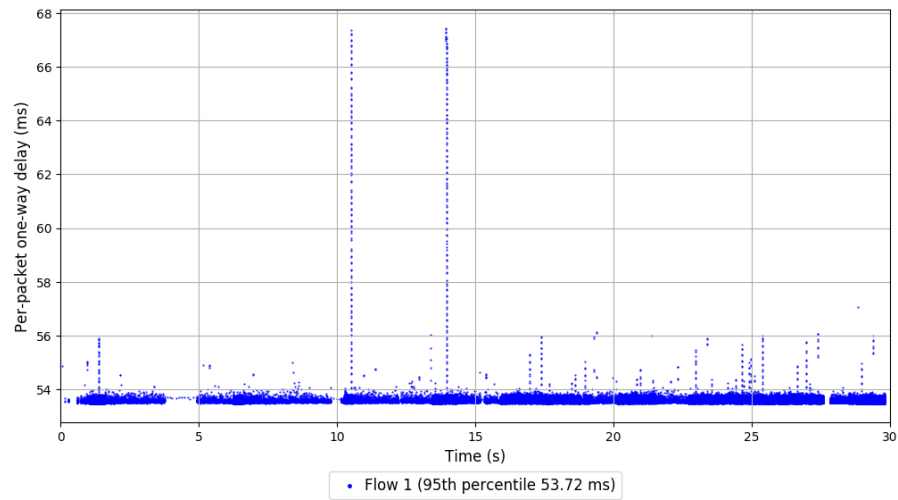
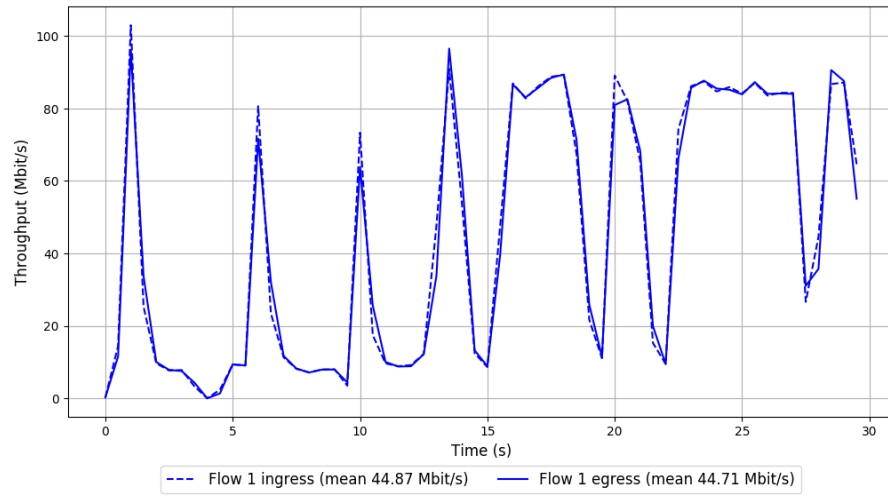
-- Flow 1:

Average throughput: 44.71 Mbit/s

95th percentile per-packet one-way delay: 53.715 ms

Loss rate: 0.71%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 03:49:10

End at: 2018-02-13 03:49:40

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 53.655 ms

Loss rate: 0.51%

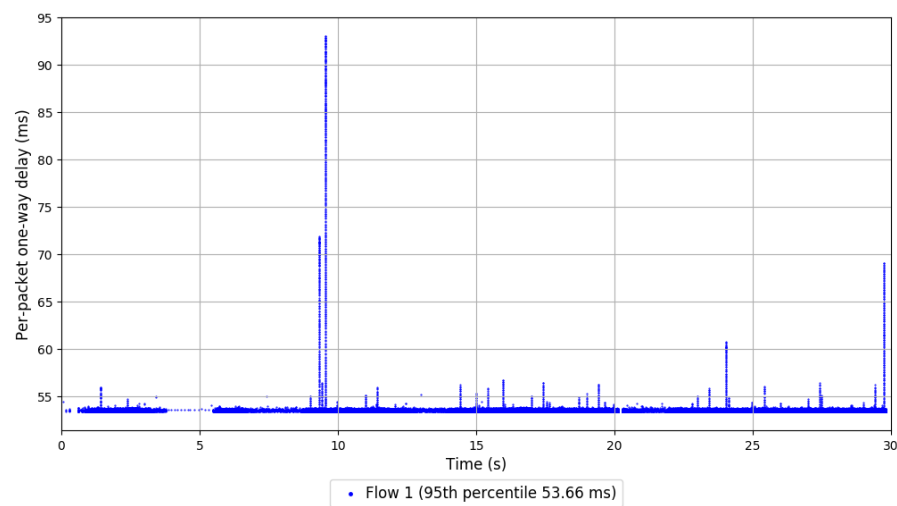
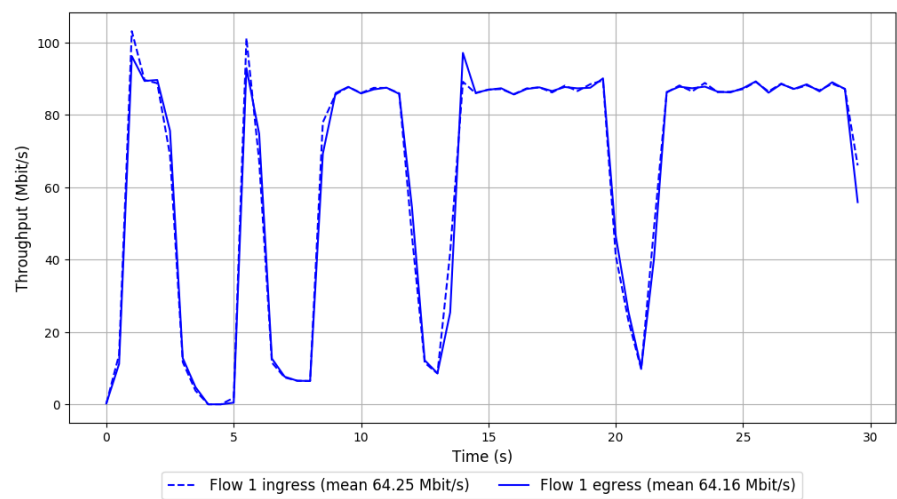
-- Flow 1:

Average throughput: 64.16 Mbit/s

95th percentile per-packet one-way delay: 53.655 ms

Loss rate: 0.51%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-13 04:03:22

End at: 2018-02-13 04:03:52

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 50.155 ms

Loss rate: 0.50%

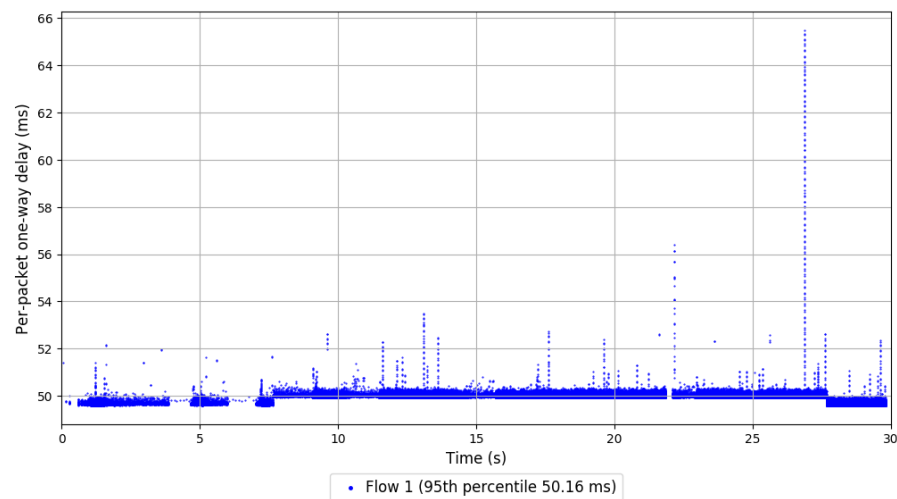
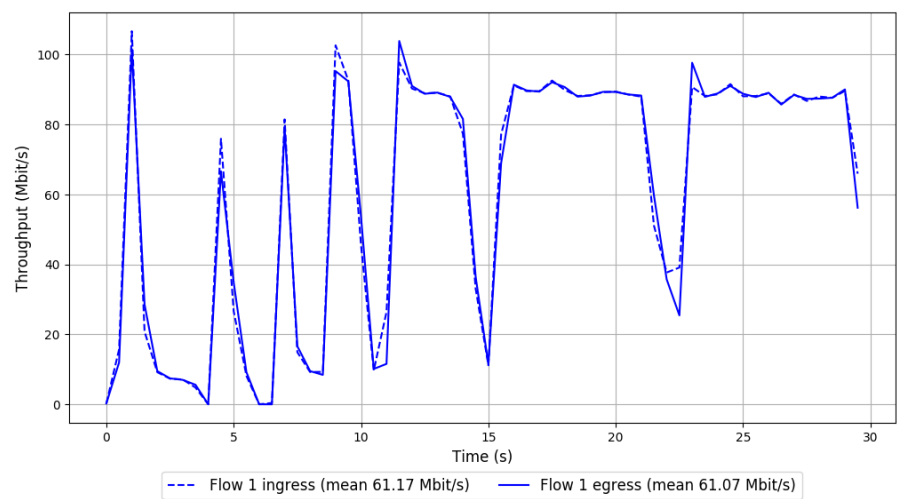
-- Flow 1:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 50.155 ms

Loss rate: 0.50%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-13 04:17:48

End at: 2018-02-13 04:18:18

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.43 Mbit/s

95th percentile per-packet one-way delay: 53.477 ms

Loss rate: 0.52%

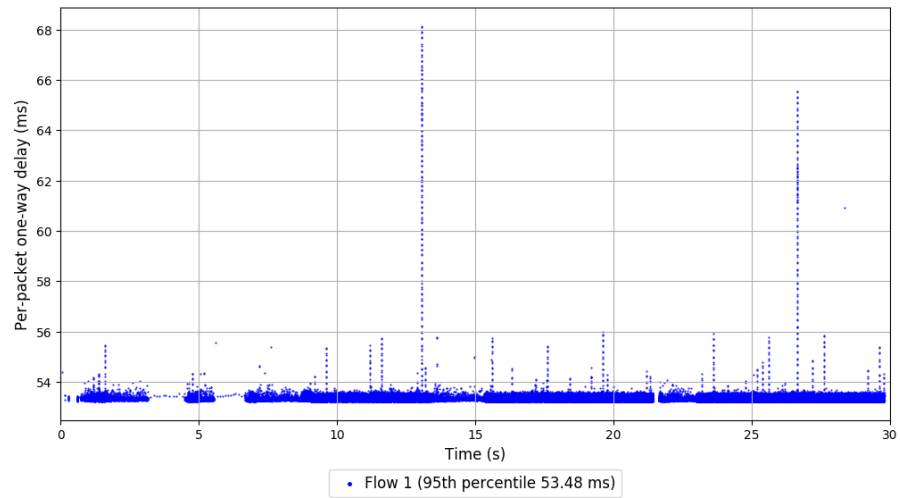
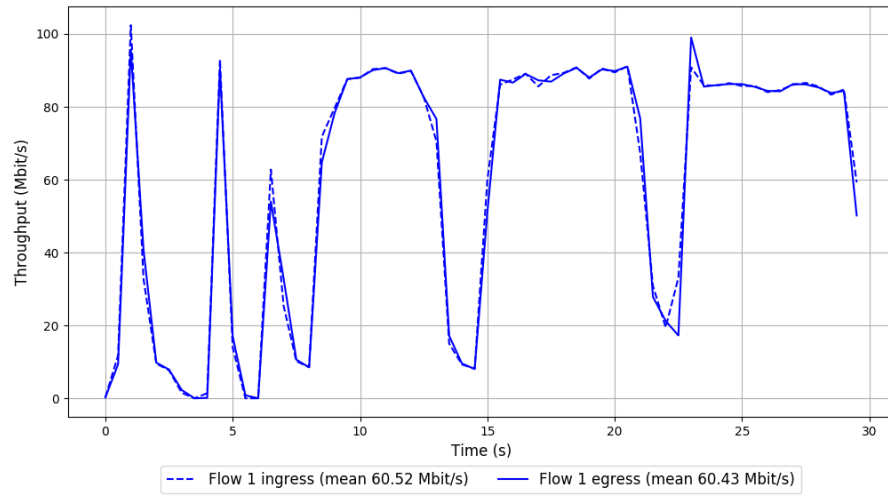
-- Flow 1:

Average throughput: 60.43 Mbit/s

95th percentile per-packet one-way delay: 53.477 ms

Loss rate: 0.52%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-13 04:32:24

End at: 2018-02-13 04:32:54

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 53.122 ms

Loss rate: 0.40%

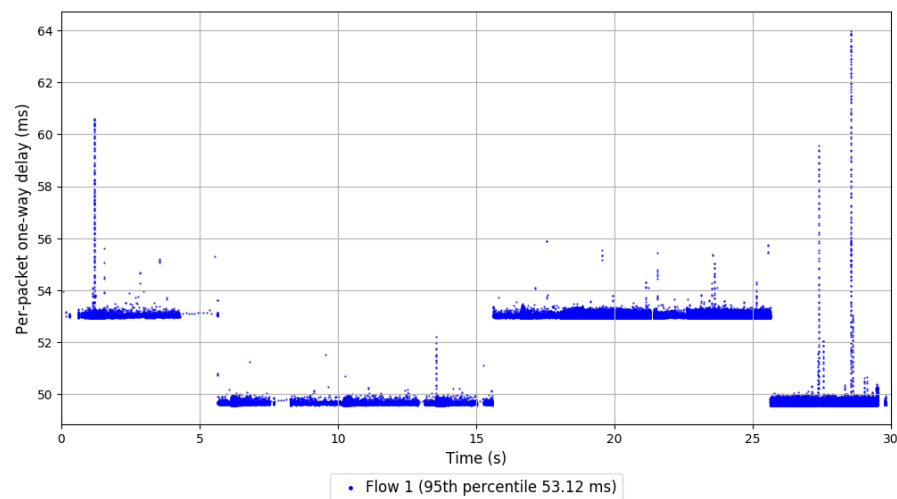
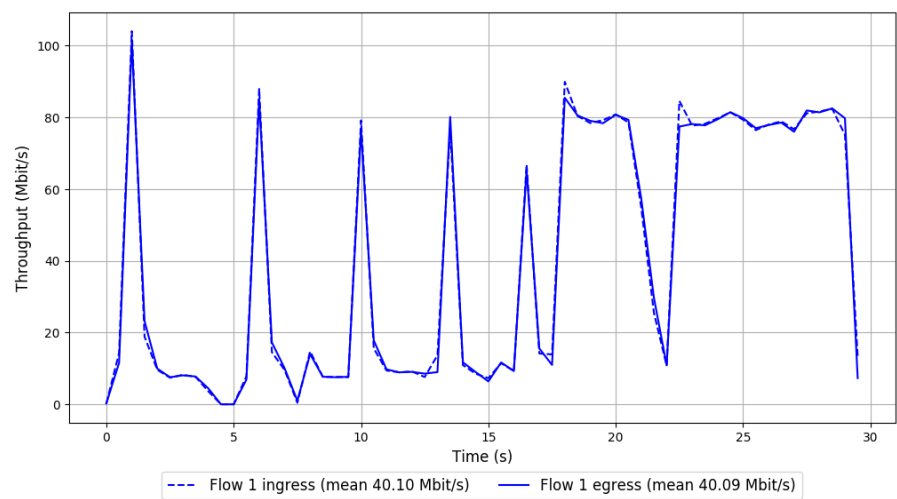
-- Flow 1:

Average throughput: 40.09 Mbit/s

95th percentile per-packet one-way delay: 53.122 ms

Loss rate: 0.40%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-13 04:46:50

End at: 2018-02-13 04:47:20

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.91 Mbit/s

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

Loss rate: 0.54%

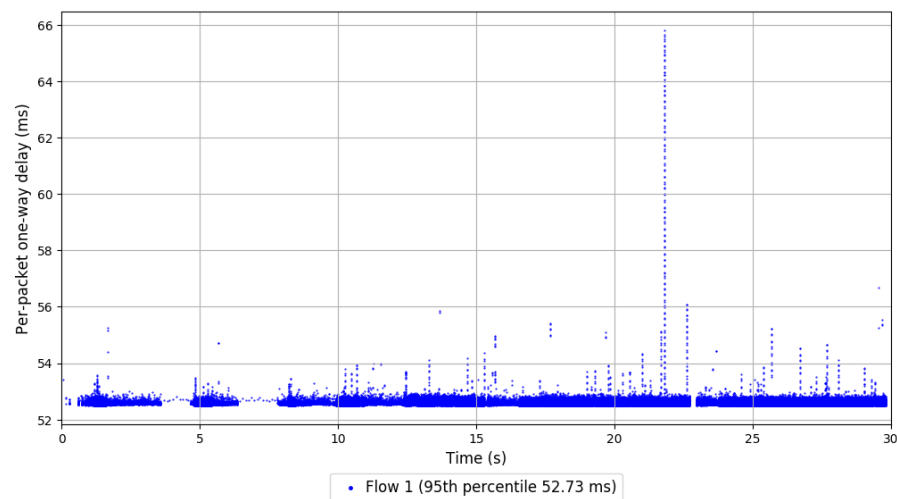
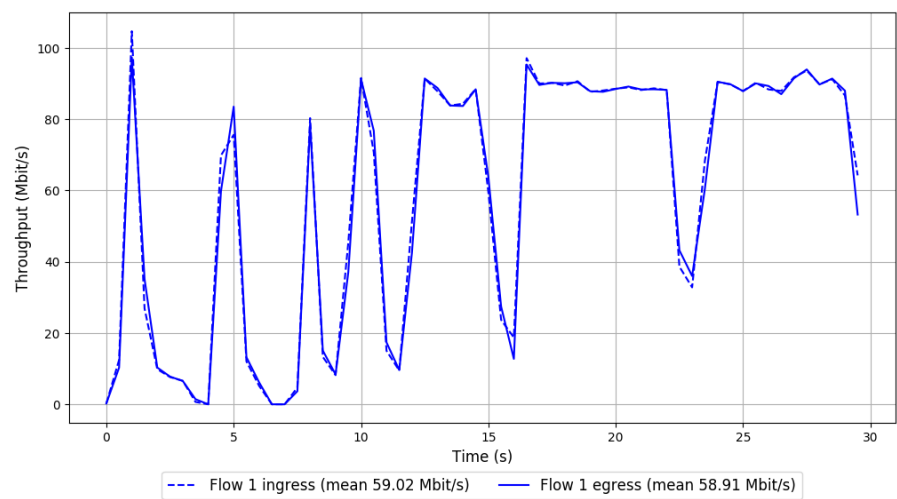
-- Flow 1:

Average throughput: 58.91 Mbit/s

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

Loss rate: 0.54%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-13 05:01:13

End at: 2018-02-13 05:01:43

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 49.475 ms

Loss rate: 0.48%

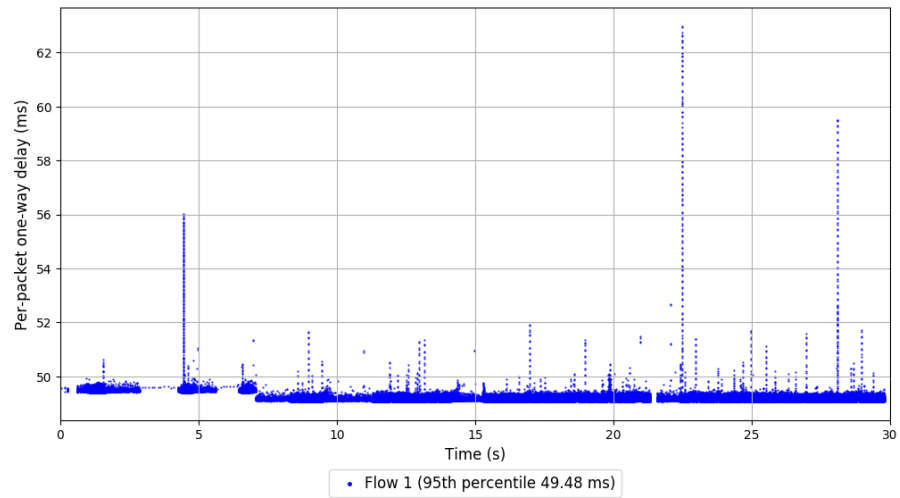
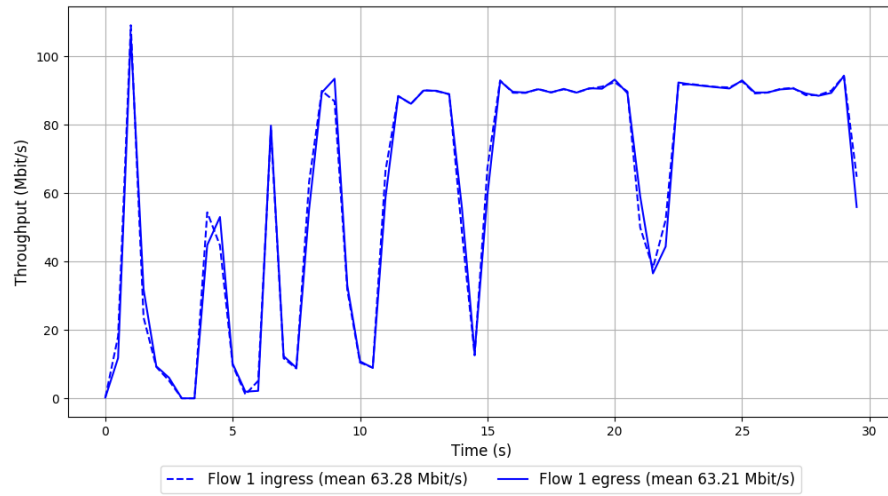
-- Flow 1:

Average throughput: 63.21 Mbit/s

95th percentile per-packet one-way delay: 49.475 ms

Loss rate: 0.48%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-13 05:15:34

End at: 2018-02-13 05:16:04

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 52.986 ms

Loss rate: 0.49%

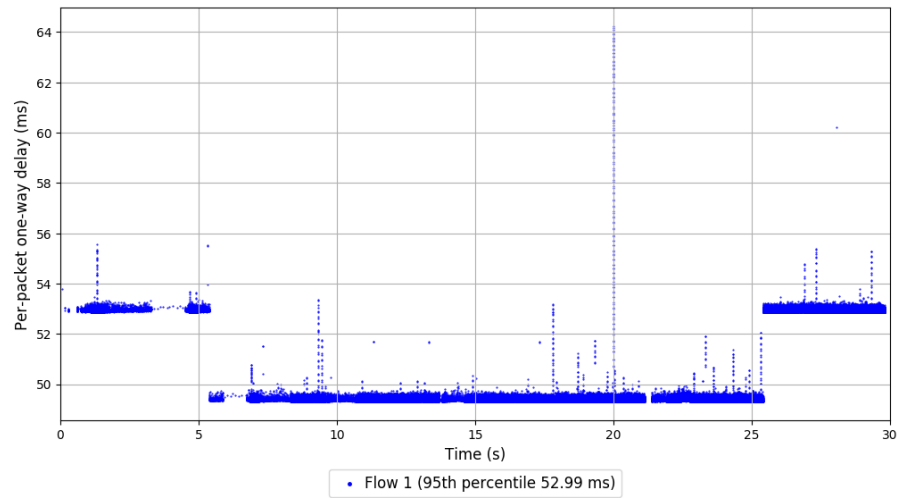
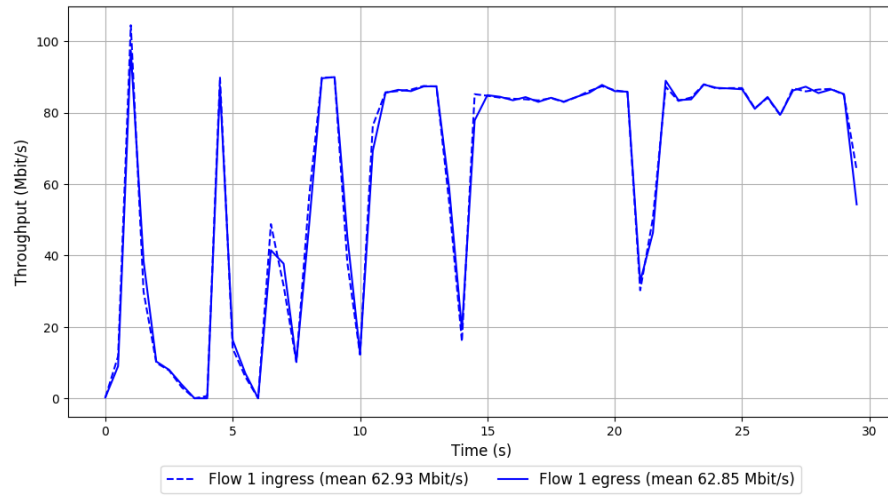
-- Flow 1:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 52.986 ms

Loss rate: 0.49%

Run 9: Report of QUIC Cubic — Data Link

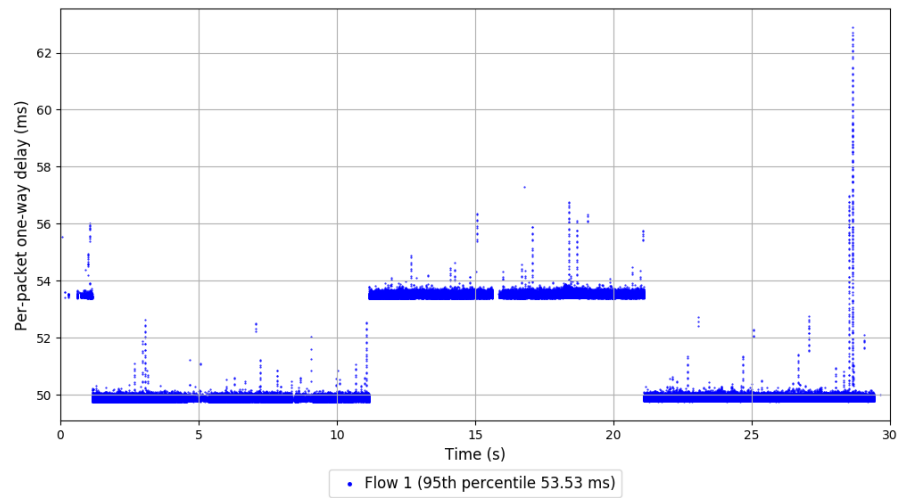
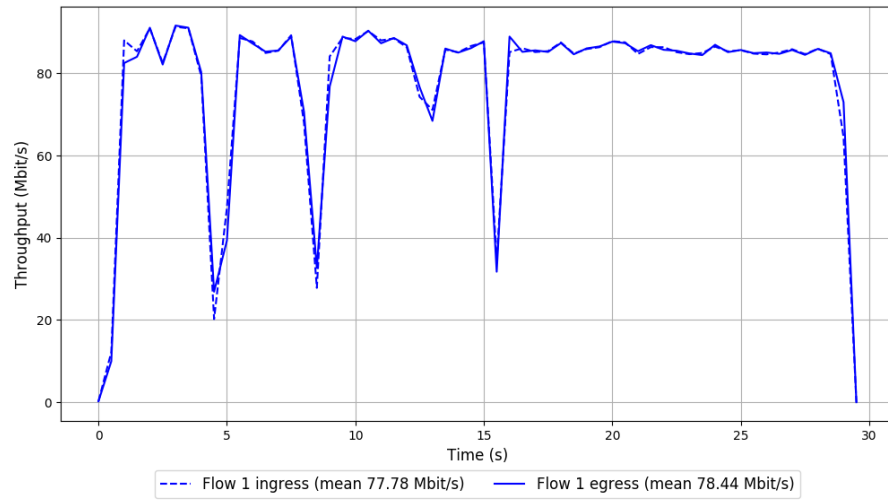


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-13 05:30:08
End at: 2018-02-13 05:30:38

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.44 Mbit/s
95th percentile per-packet one-way delay: 53.533 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.44 Mbit/s
95th percentile per-packet one-way delay: 53.533 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

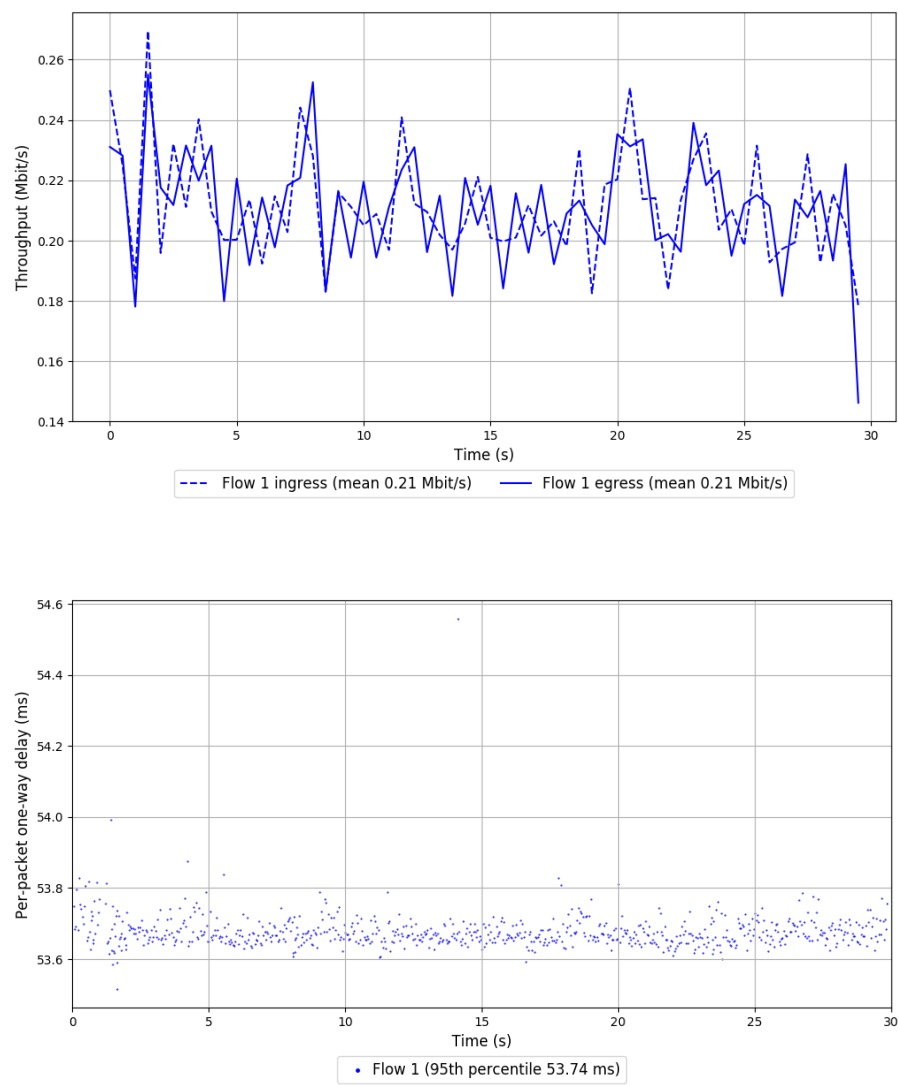


```
Run 1: Statistics of SCReAM

Start at: 2018-02-13 03:11:19
End at: 2018-02-13 03:11:49

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.744 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

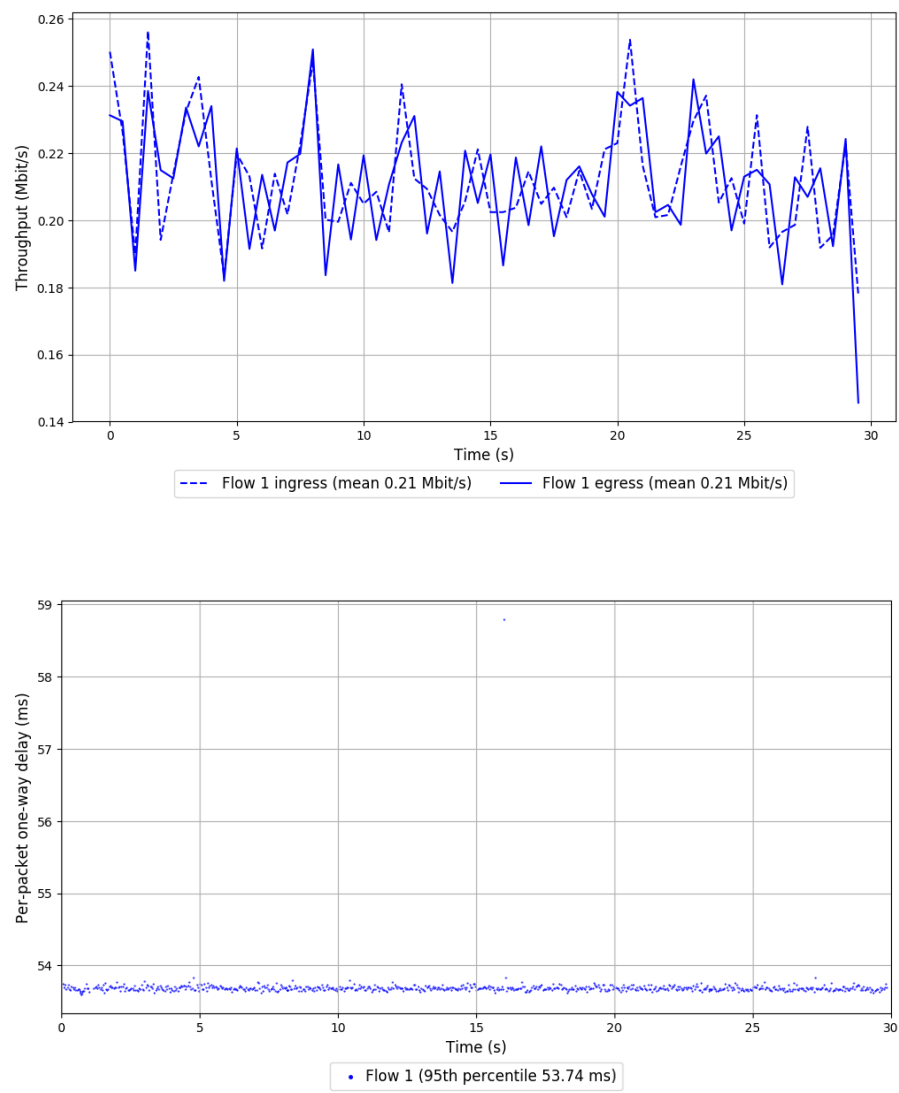


```
Run 2: Statistics of SCReAM

Start at: 2018-02-13 03:25:42
End at: 2018-02-13 03:26:12

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link

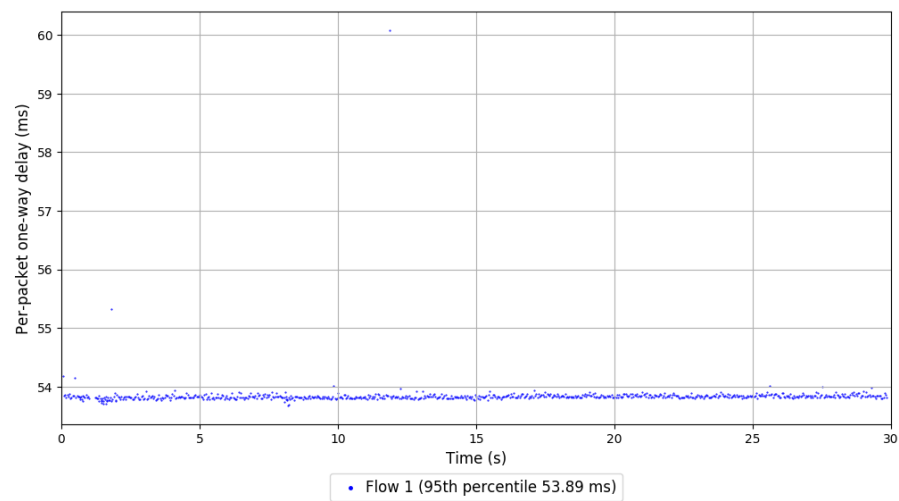
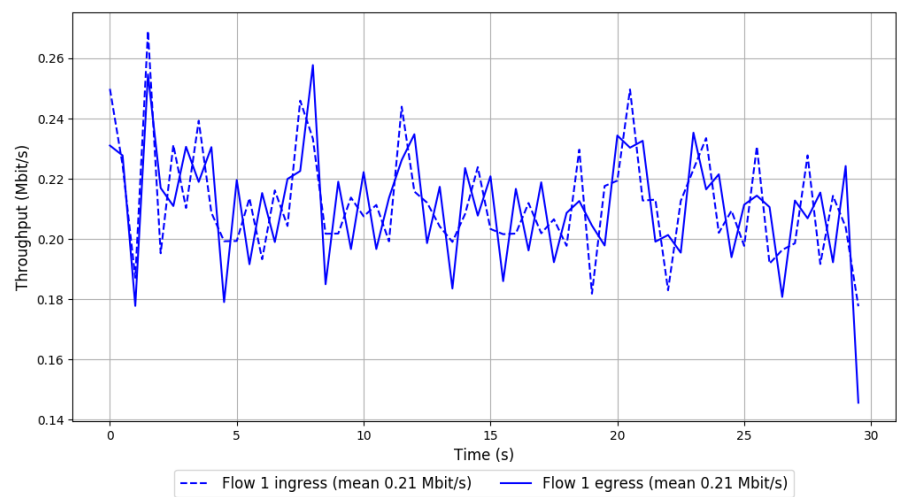


```
Run 3: Statistics of SCReAM

Start at: 2018-02-13 03:40:01
End at: 2018-02-13 03:40:31

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.891 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.891 ms
Loss rate: 0.38%
```


Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-13 03:54:20

End at: 2018-02-13 03:54:50

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

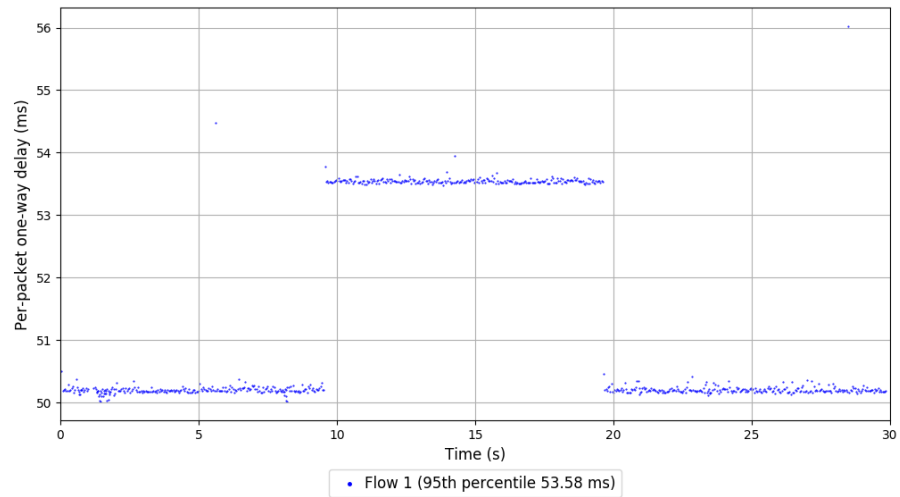
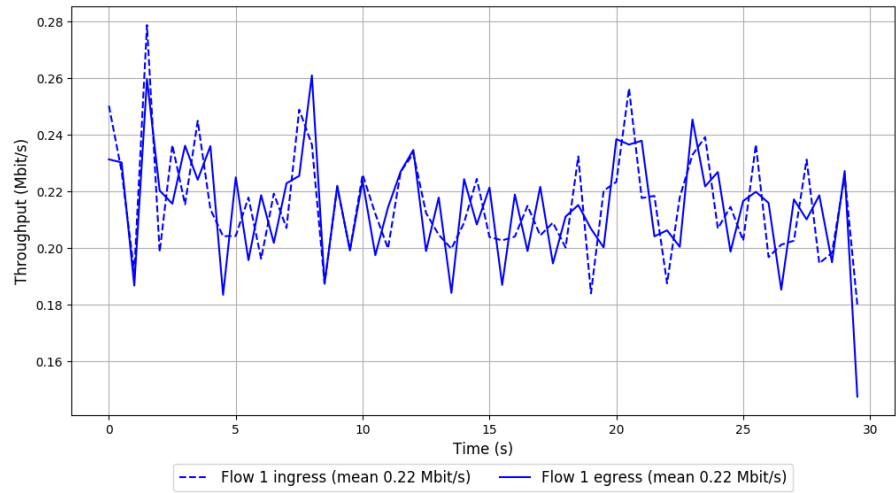
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-13 04:08:35

End at: 2018-02-13 04:09:05

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.868 ms

Loss rate: 0.38%

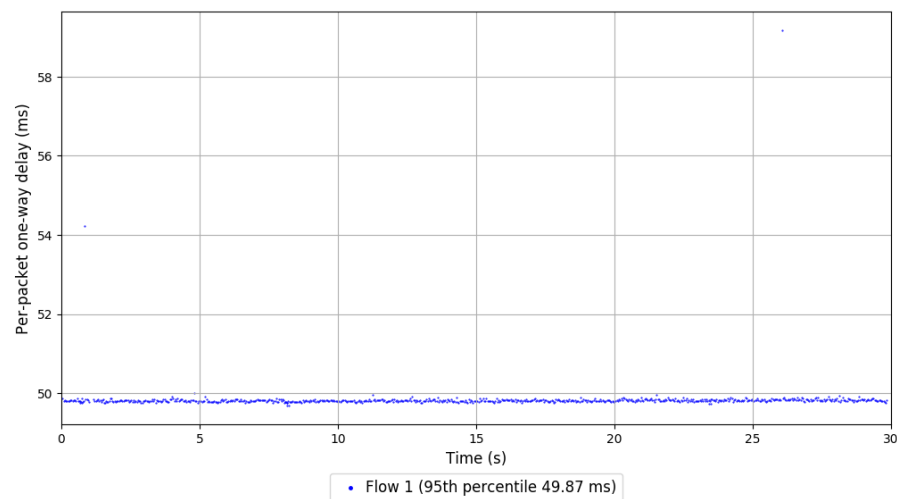
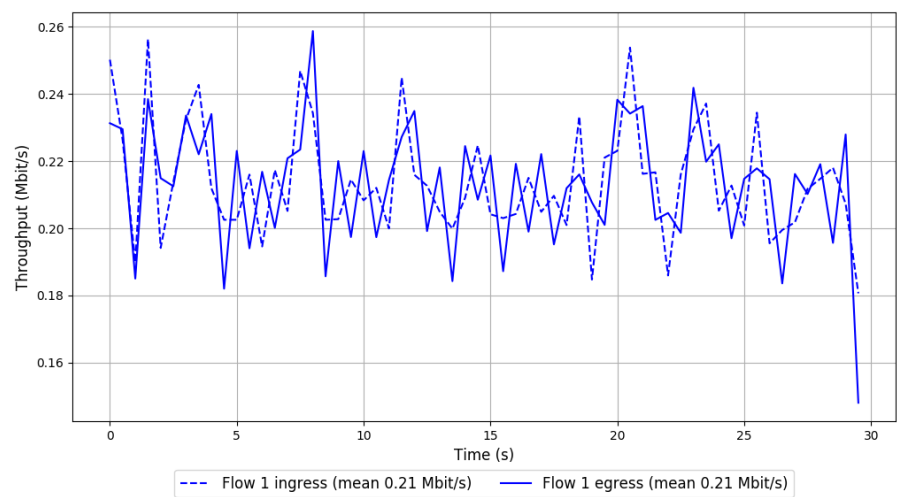
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.868 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link

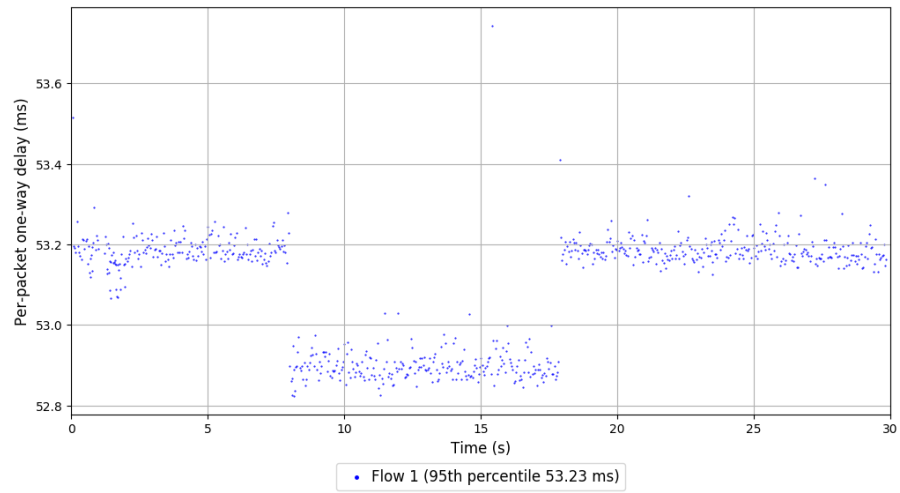
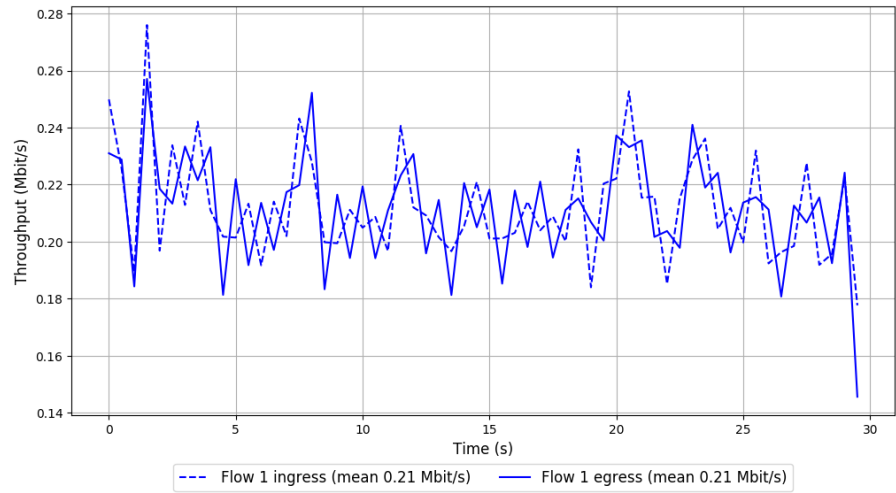


```
Run 6: Statistics of SCReAM

Start at: 2018-02-13 04:22:52
End at: 2018-02-13 04:23:22

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.230 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.230 ms
Loss rate: 0.38%
```

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-13 04:37:46

End at: 2018-02-13 04:38:16

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.161 ms

Loss rate: 0.38%

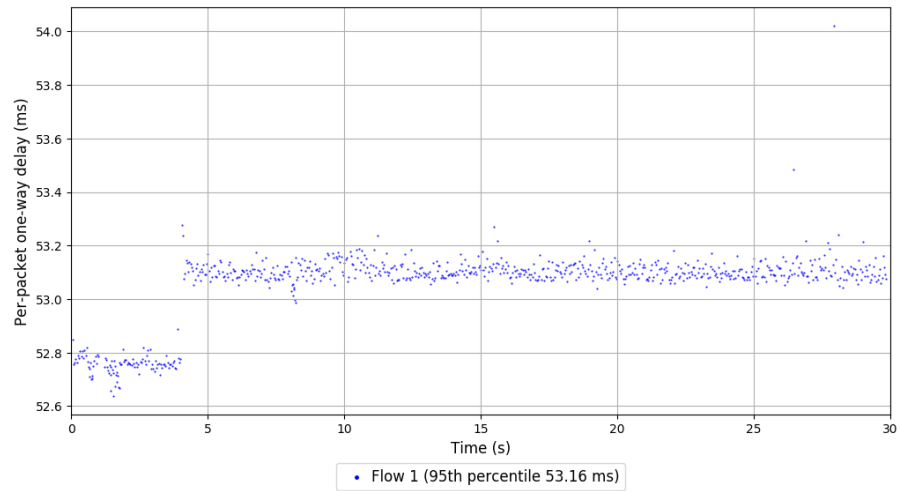
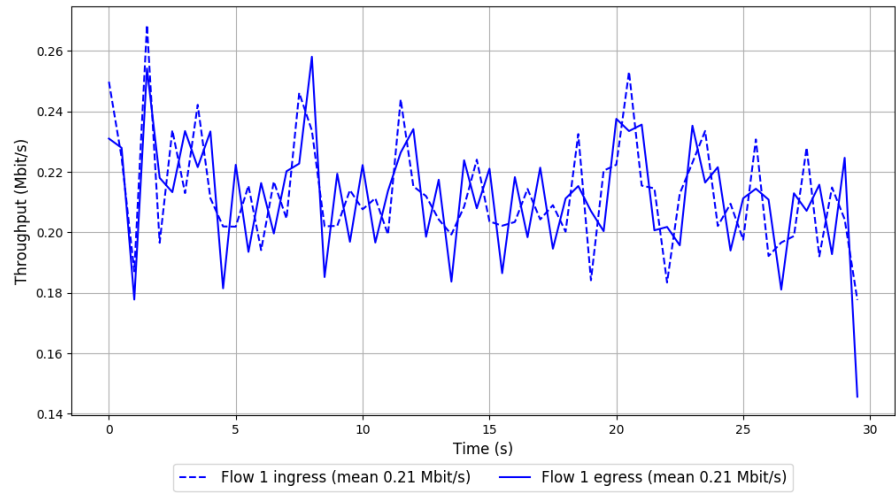
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.161 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-13 04:52:05

End at: 2018-02-13 04:52:35

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.723 ms

Loss rate: 0.38%

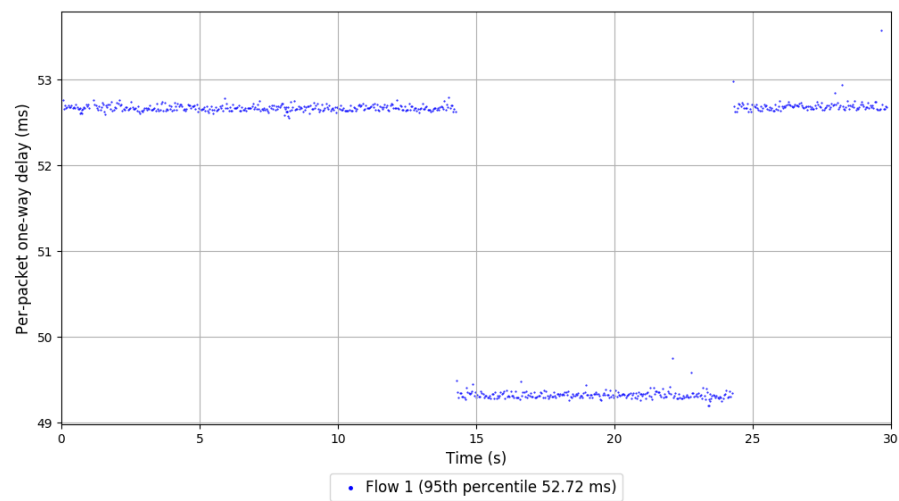
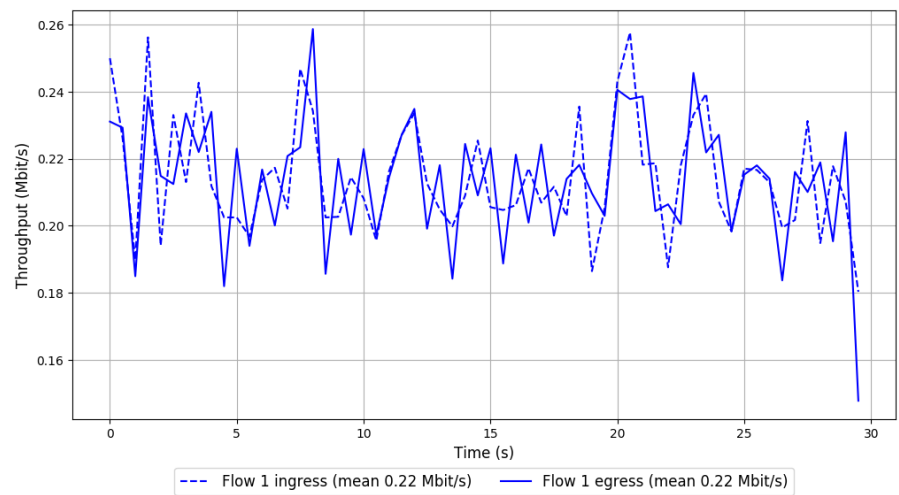
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.723 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-13 05:06:25

End at: 2018-02-13 05:06:55

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.800 ms

Loss rate: 0.38%

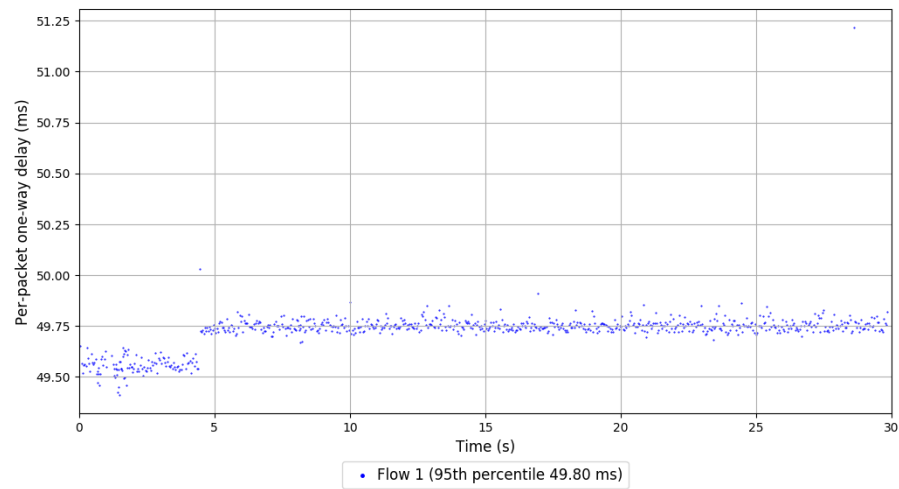
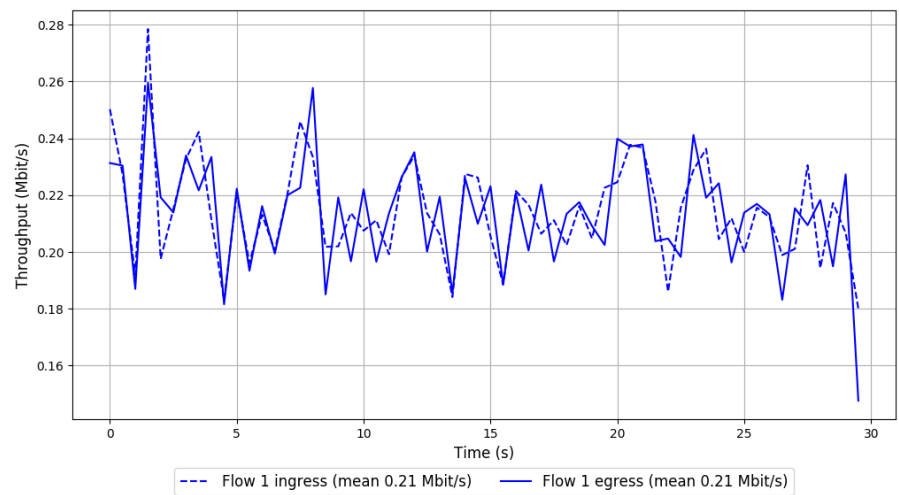
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.800 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-13 05:20:56

End at: 2018-02-13 05:21:26

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.942 ms

Loss rate: 0.38%

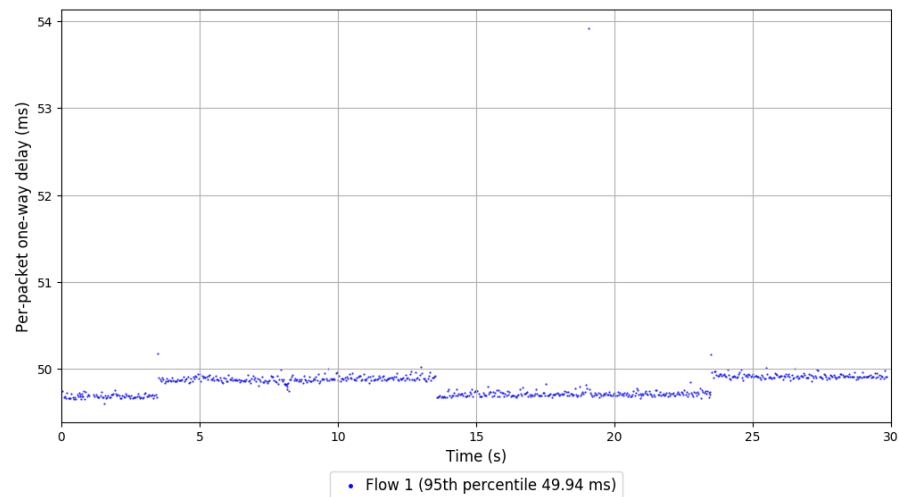
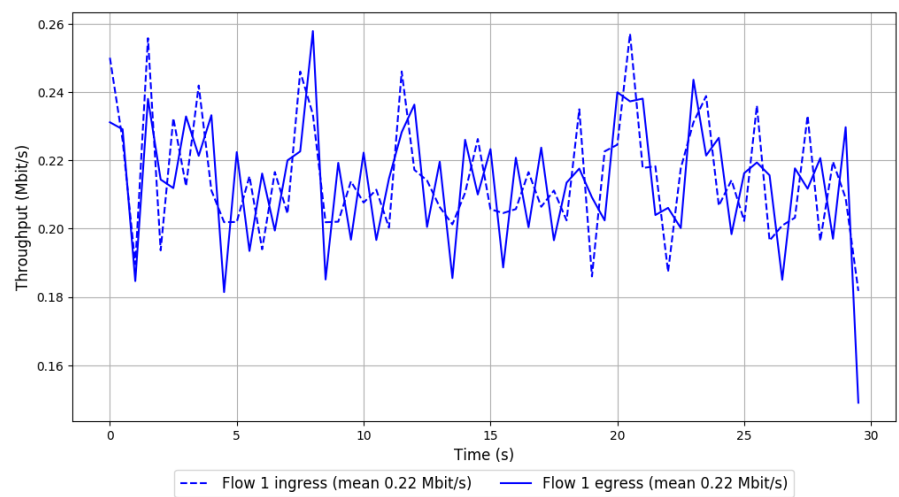
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.942 ms

Loss rate: 0.38%

Run 10: Report of SCRaM — Data Link

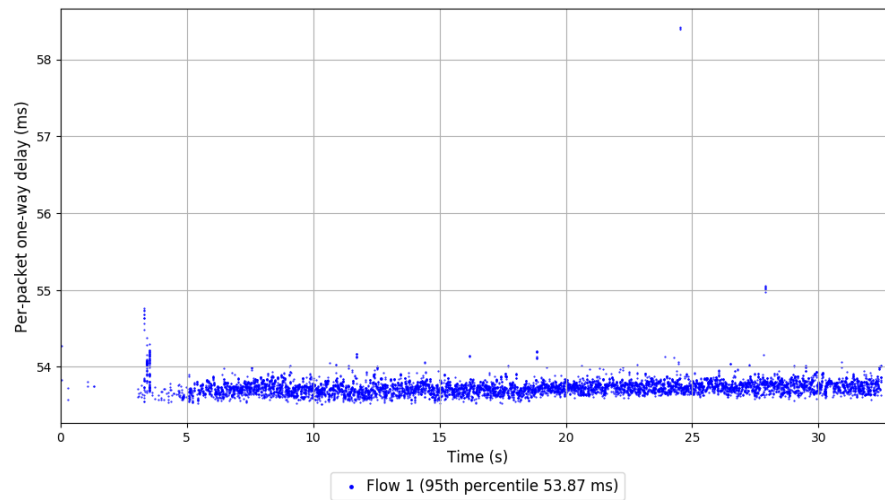
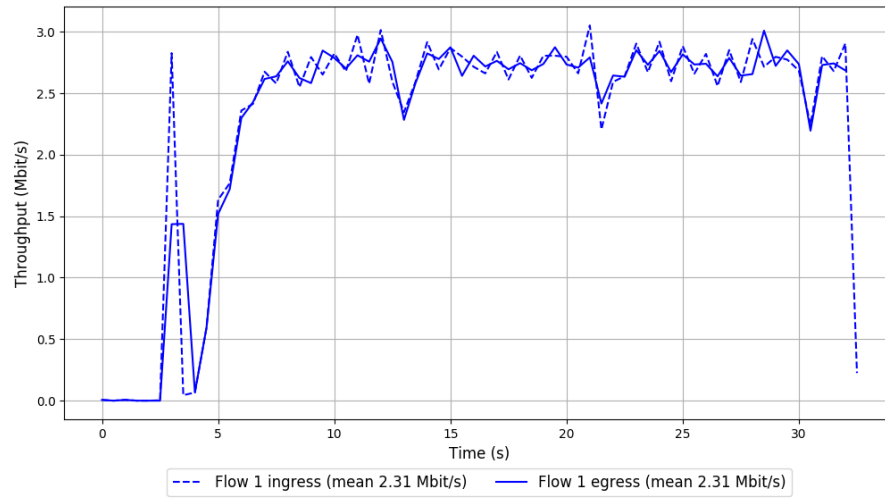


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-13 03:16:03
End at: 2018-02-13 03:16:33

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 53.872 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 53.872 ms
Loss rate: 0.44%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-13 03:30:24

End at: 2018-02-13 03:30:54

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.782 ms

Loss rate: 0.43%

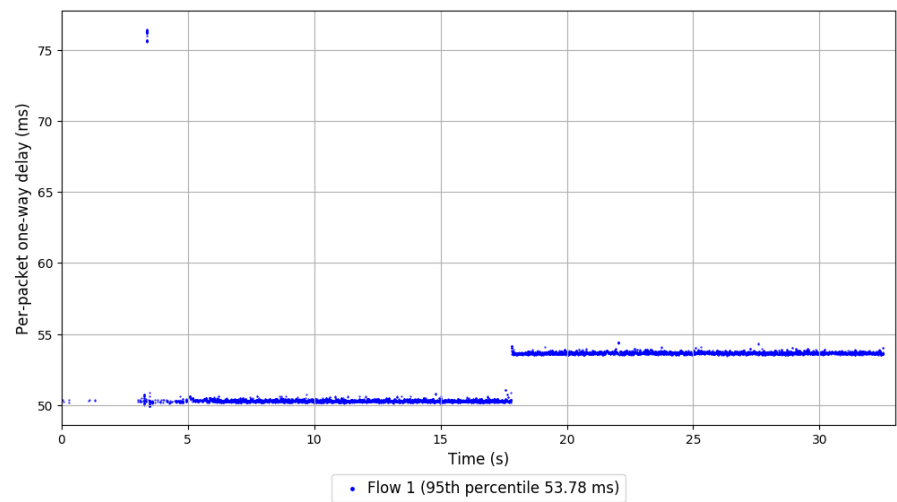
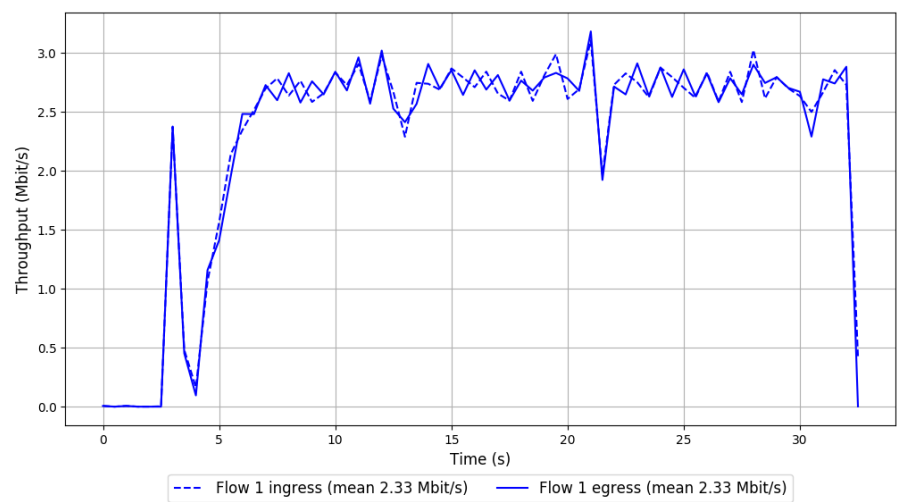
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.782 ms

Loss rate: 0.43%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-13 03:44:49

End at: 2018-02-13 03:45:19

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

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

Loss rate: 0.33%

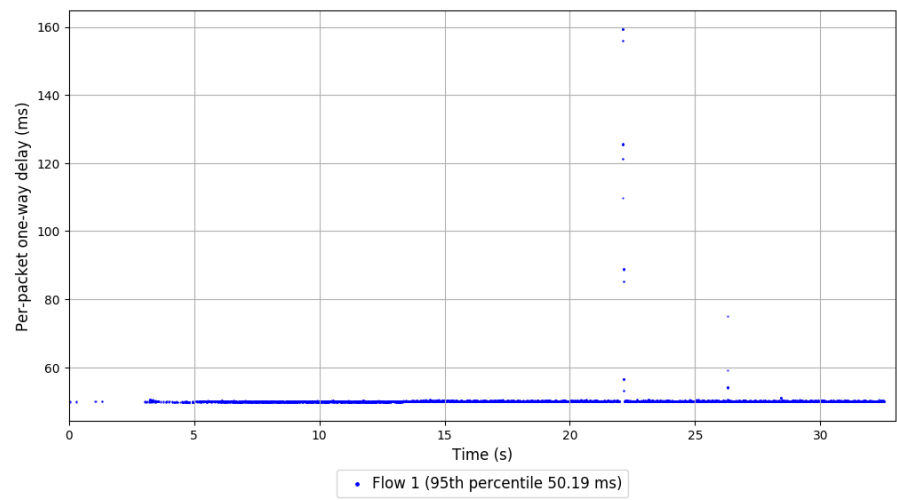
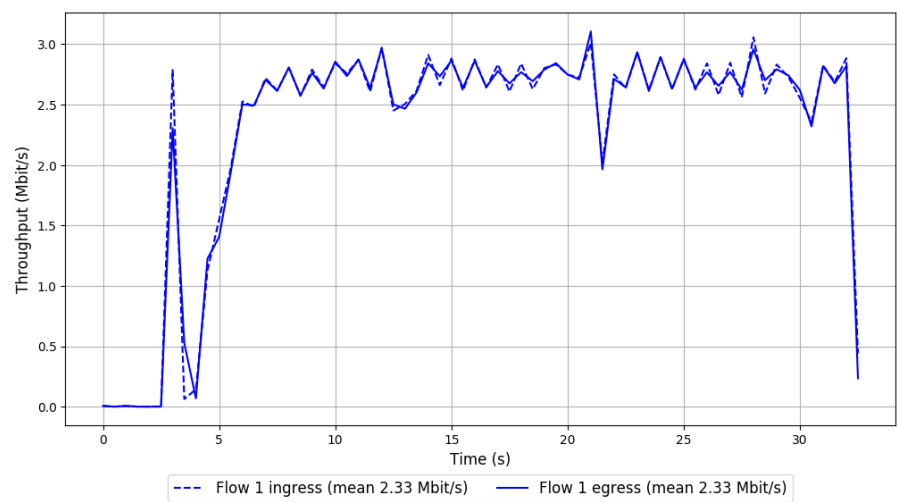
-- Flow 1:

Average throughput: 2.33 Mbit/s

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

Loss rate: 0.33%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-13 03:59:00

End at: 2018-02-13 03:59:30

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.44%

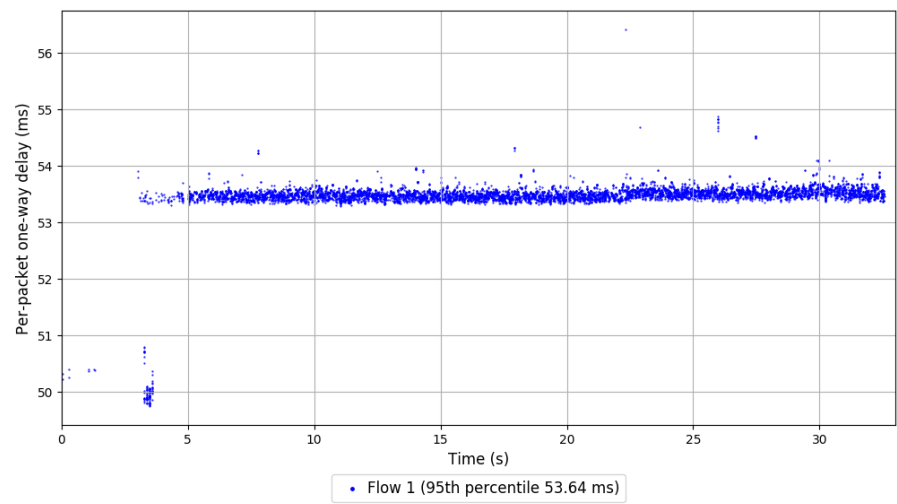
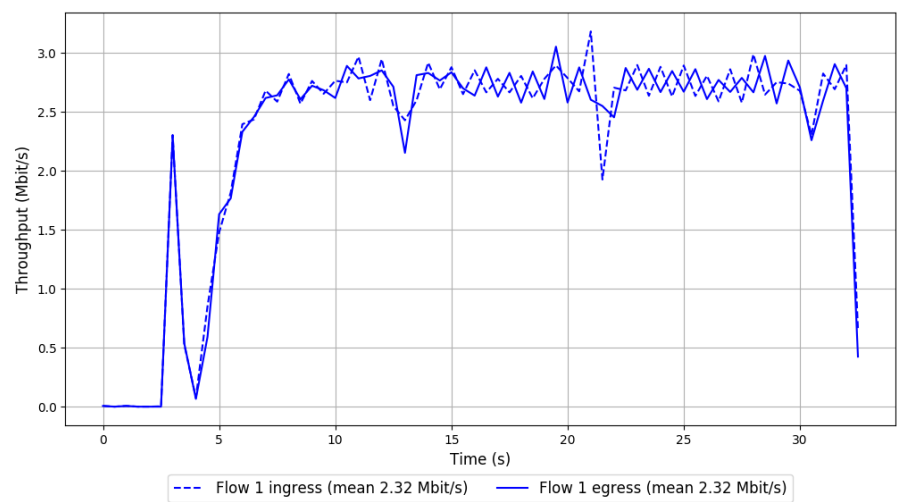
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.640 ms

Loss rate: 0.44%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-13 04:13:21

End at: 2018-02-13 04:13:51

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.43%

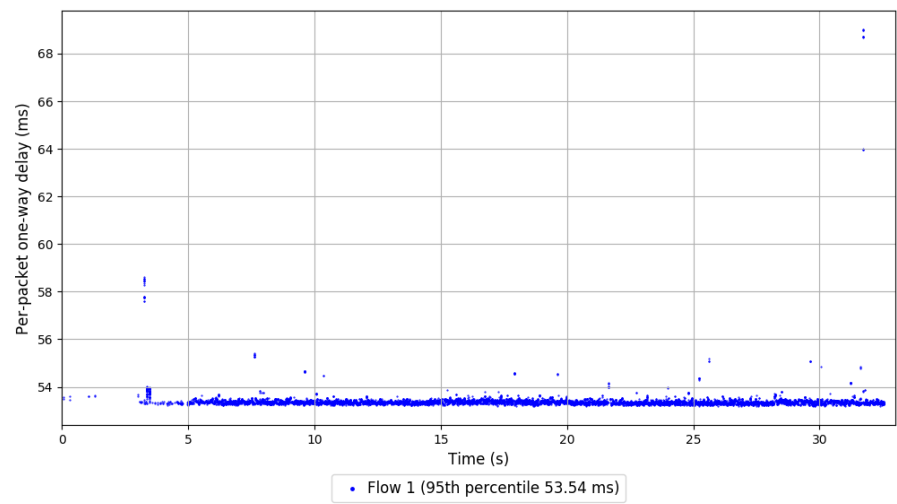
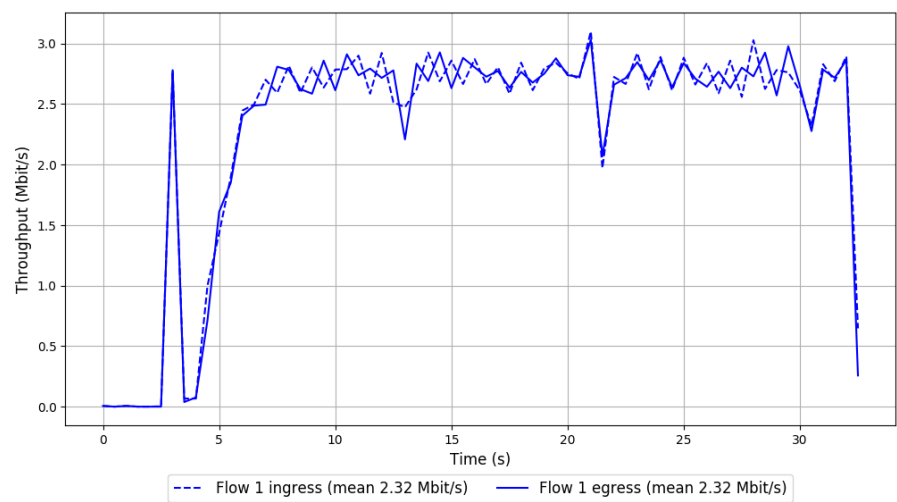
-- Flow 1:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.43%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-13 04:27:58

End at: 2018-02-13 04:28:28

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.398 ms

Loss rate: 0.43%

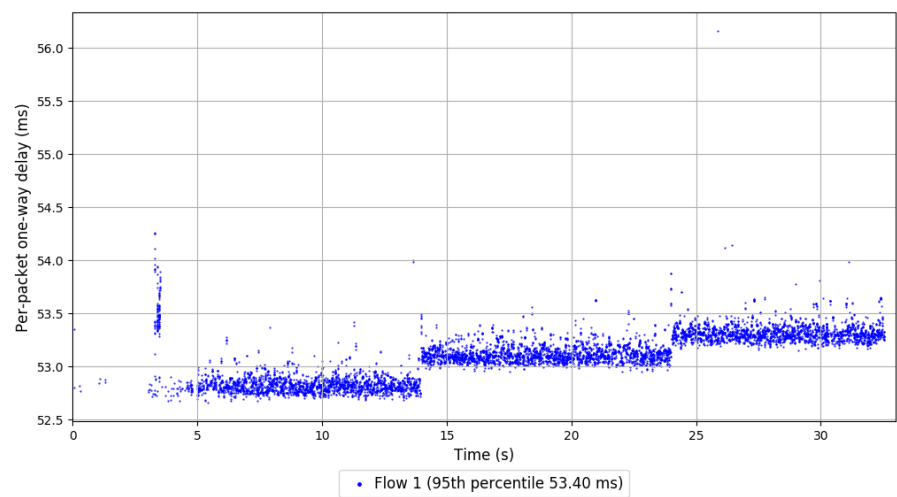
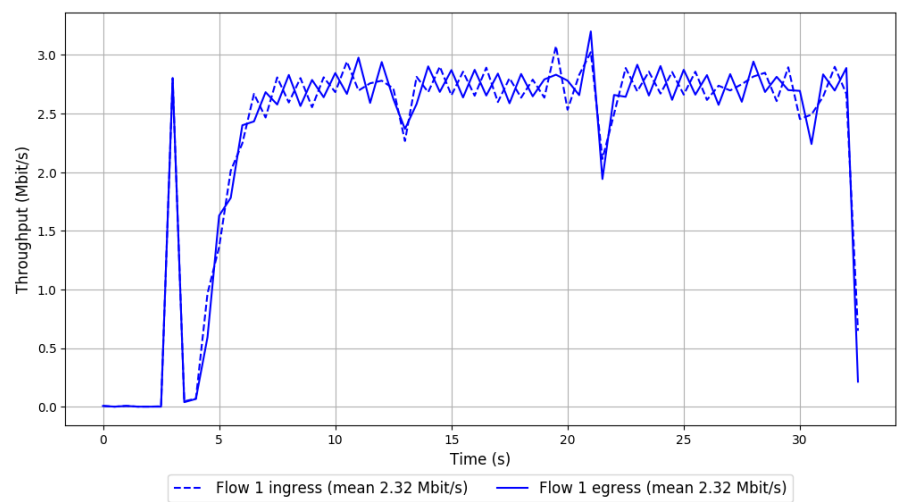
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.398 ms

Loss rate: 0.43%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-13 04:42:30

End at: 2018-02-13 04:43:00

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.483 ms

Loss rate: 0.43%

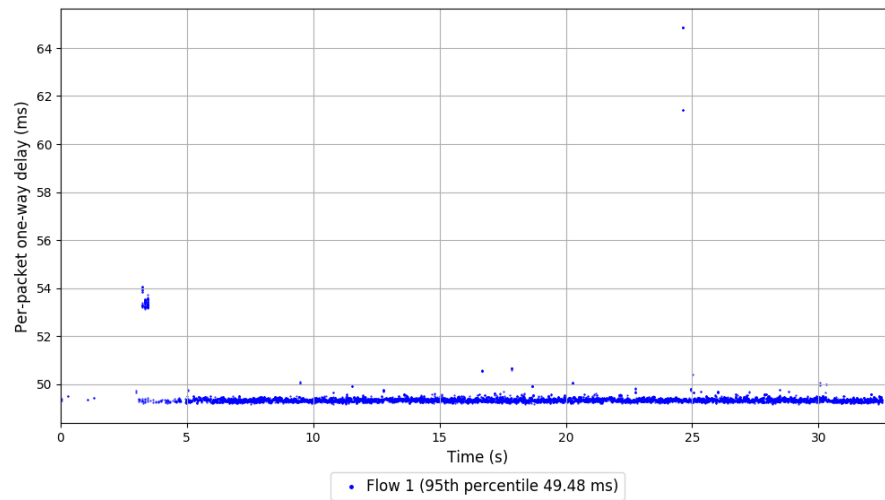
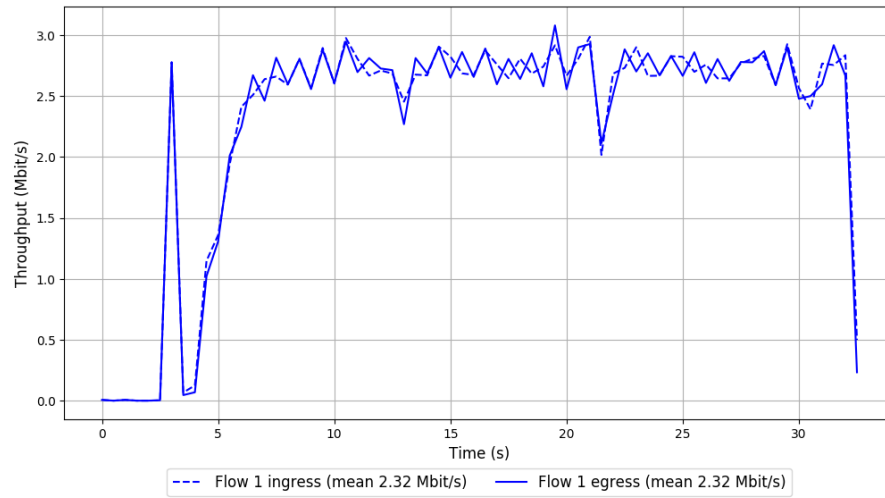
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.483 ms

Loss rate: 0.43%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-13 04:56:48

End at: 2018-02-13 04:57:18

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 52.535 ms

Loss rate: 0.43%

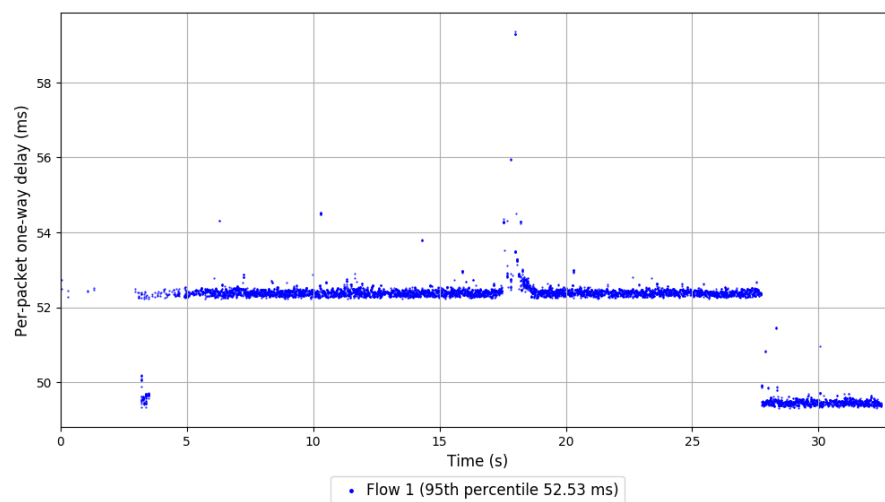
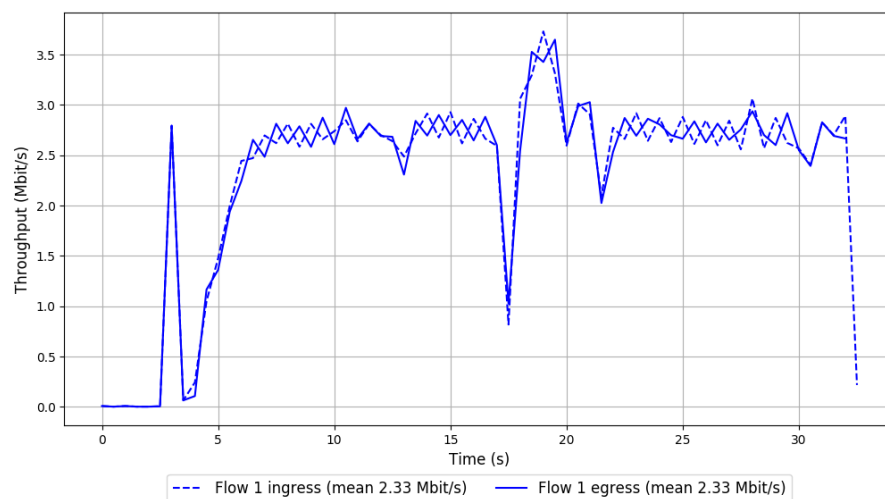
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 52.535 ms

Loss rate: 0.43%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-13 05:11:10

End at: 2018-02-13 05:11:40

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.048 ms

Loss rate: 0.29%

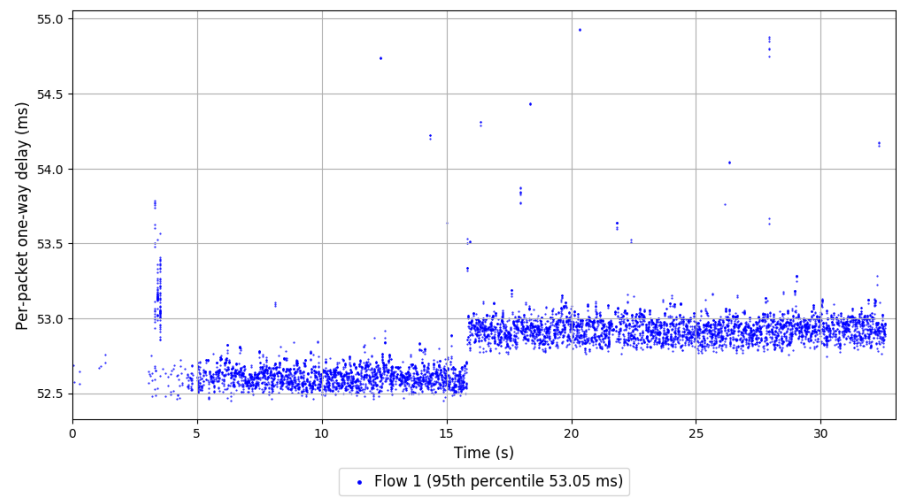
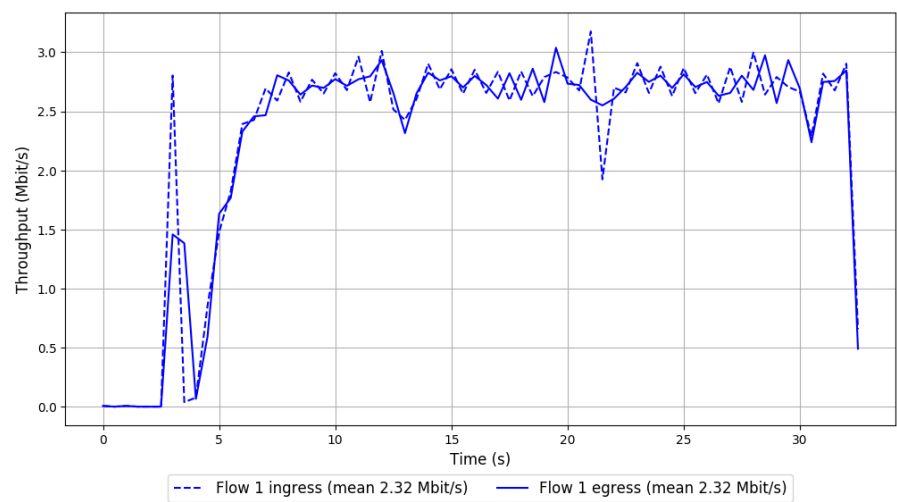
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.048 ms

Loss rate: 0.29%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-13 05:25:54

End at: 2018-02-13 05:26:24

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.375 ms

Loss rate: 0.43%

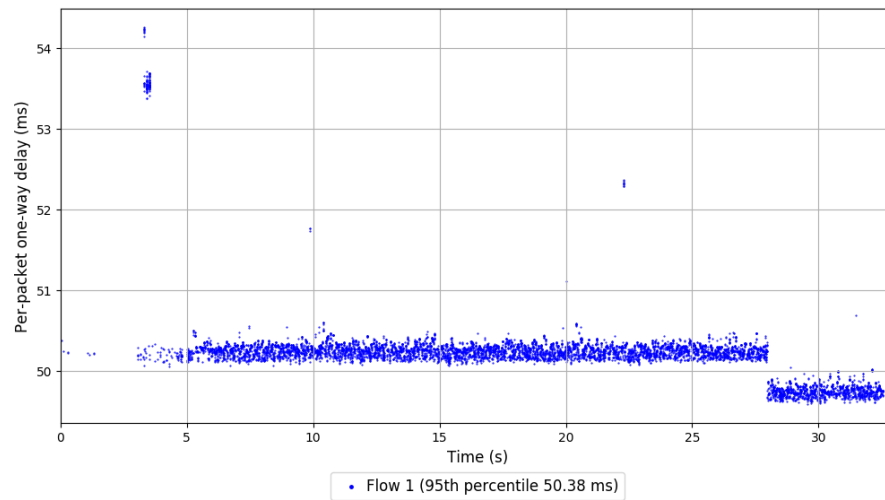
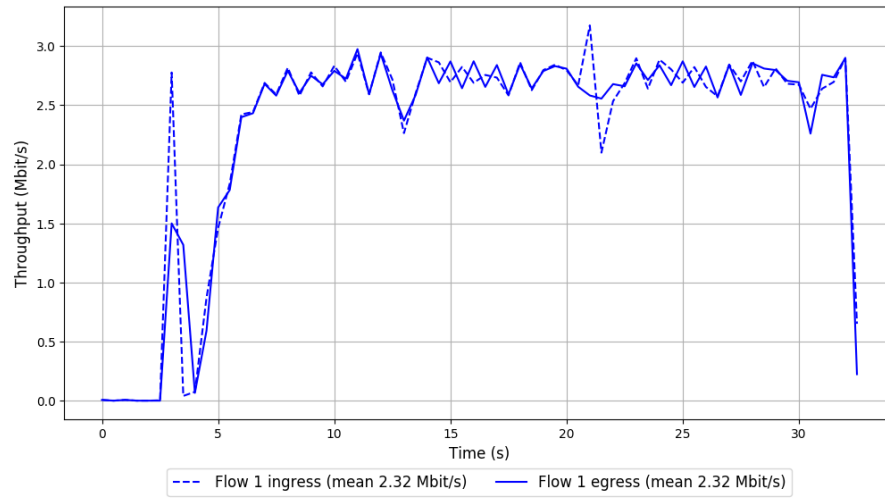
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.375 ms

Loss rate: 0.43%

Run 10: Report of WebRTC media — Data Link

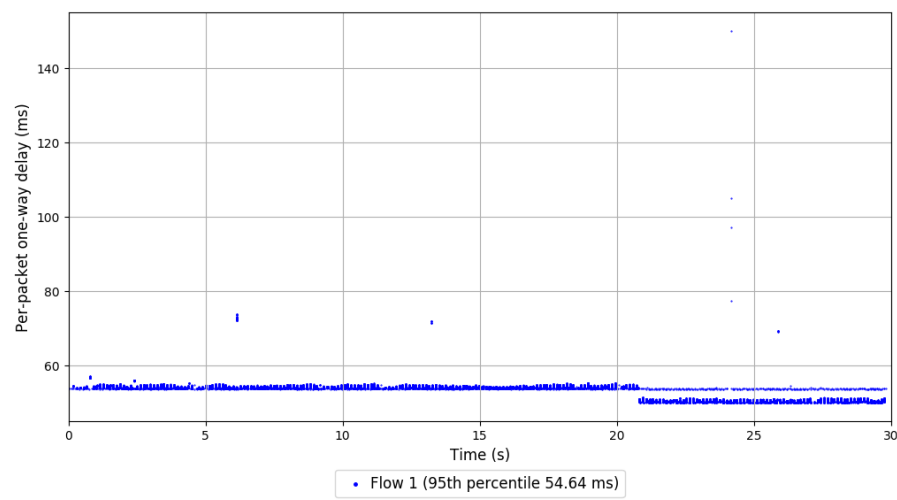
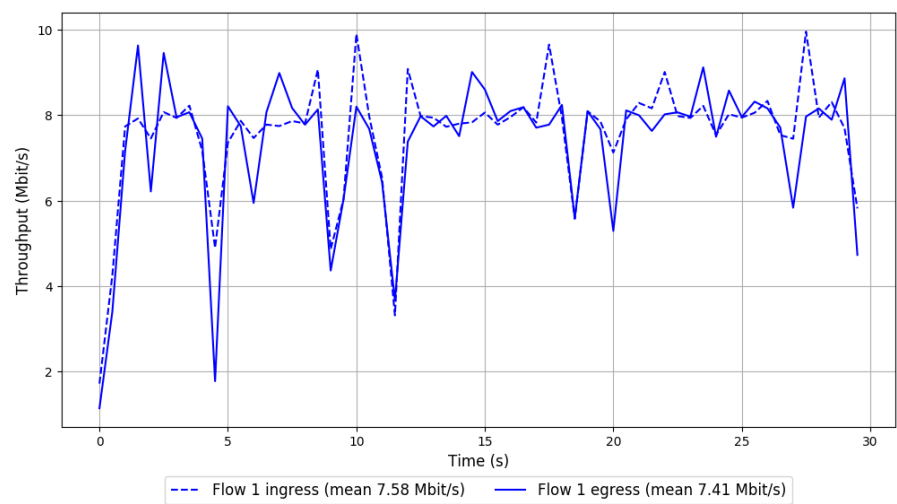


```
Run 1: Statistics of Sprout

Start at: 2018-02-13 03:09:49
End at: 2018-02-13 03:10:19

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 54.637 ms
Loss rate: 2.76%
-- Flow 1:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 54.637 ms
Loss rate: 2.76%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-13 03:24:10

End at: 2018-02-13 03:24:40

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 53.303 ms

Loss rate: 0.47%

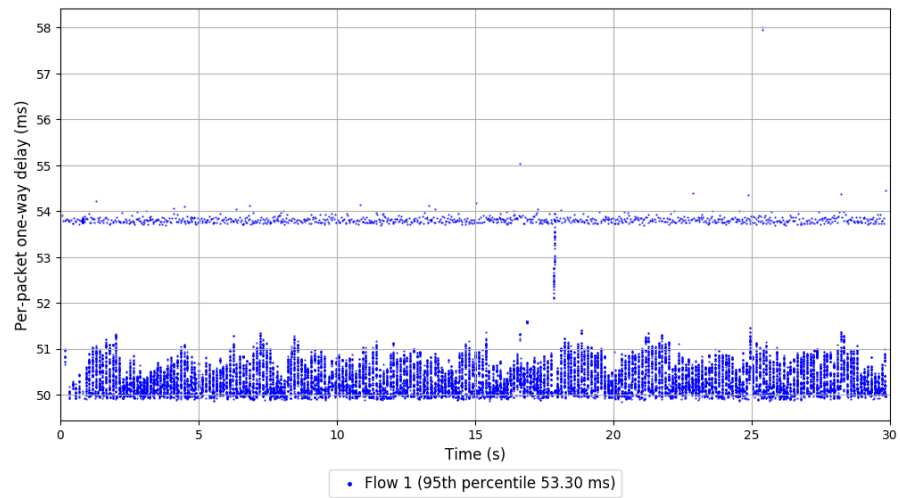
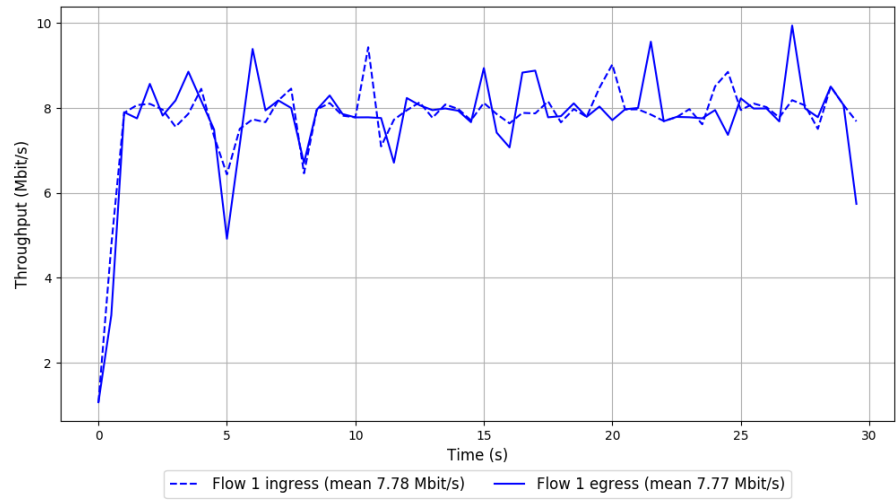
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 53.303 ms

Loss rate: 0.47%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-13 03:38:30

End at: 2018-02-13 03:39:00

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.41%

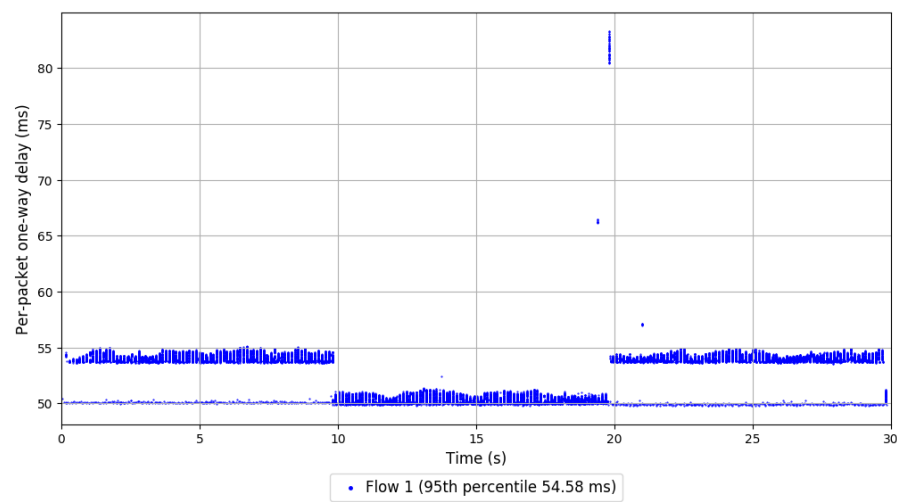
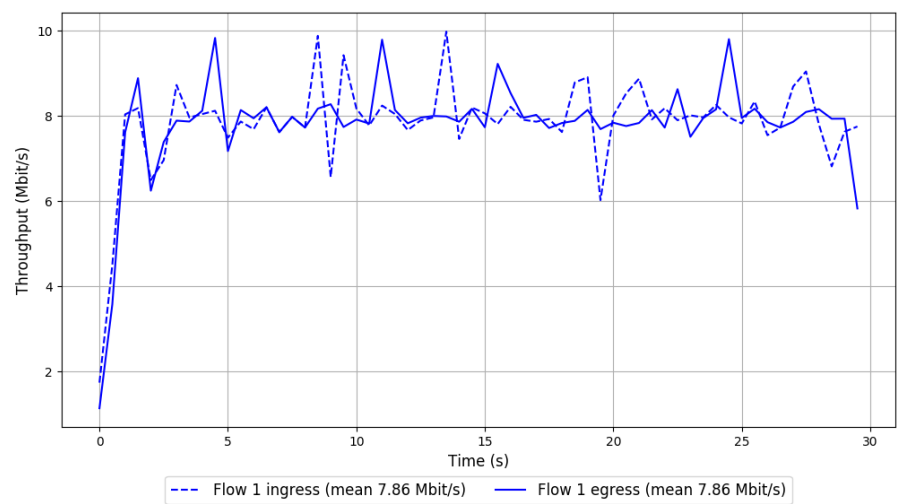
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.579 ms

Loss rate: 0.41%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-13 03:52:48

End at: 2018-02-13 03:53:18

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.676 ms

Loss rate: 0.48%

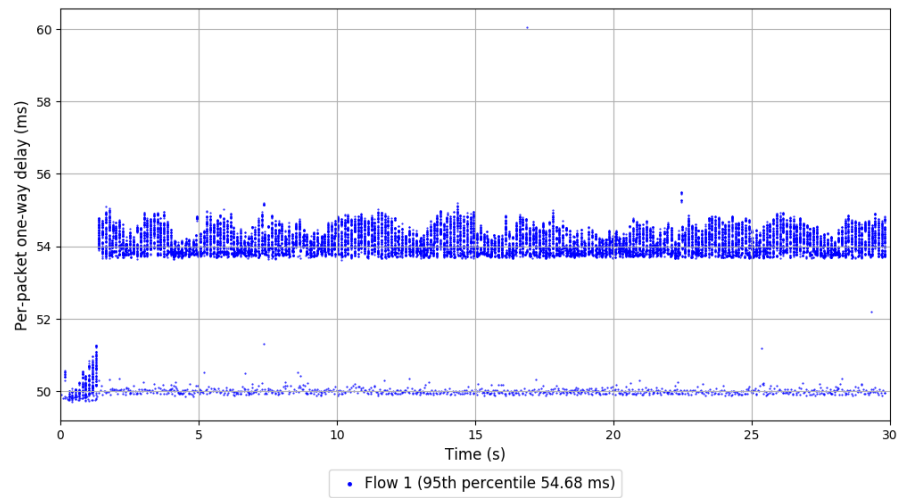
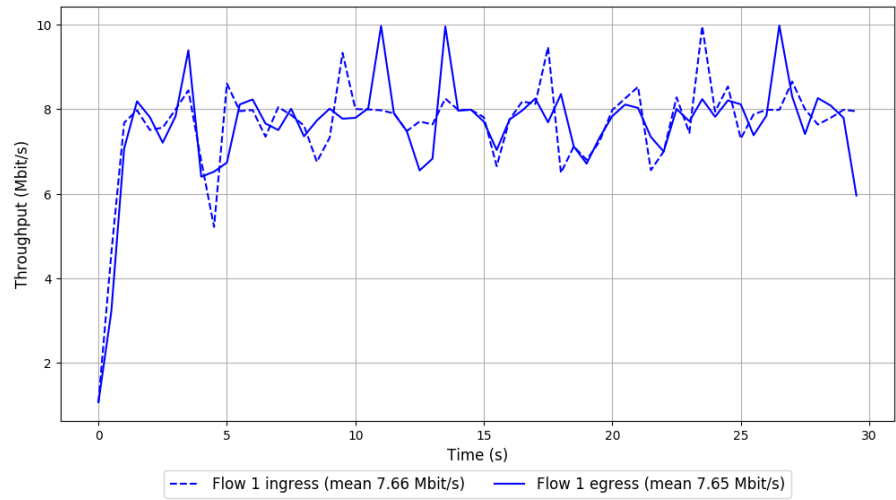
-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.676 ms

Loss rate: 0.48%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-13 04:07:04

End at: 2018-02-13 04:07:34

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.270 ms

Loss rate: 0.82%

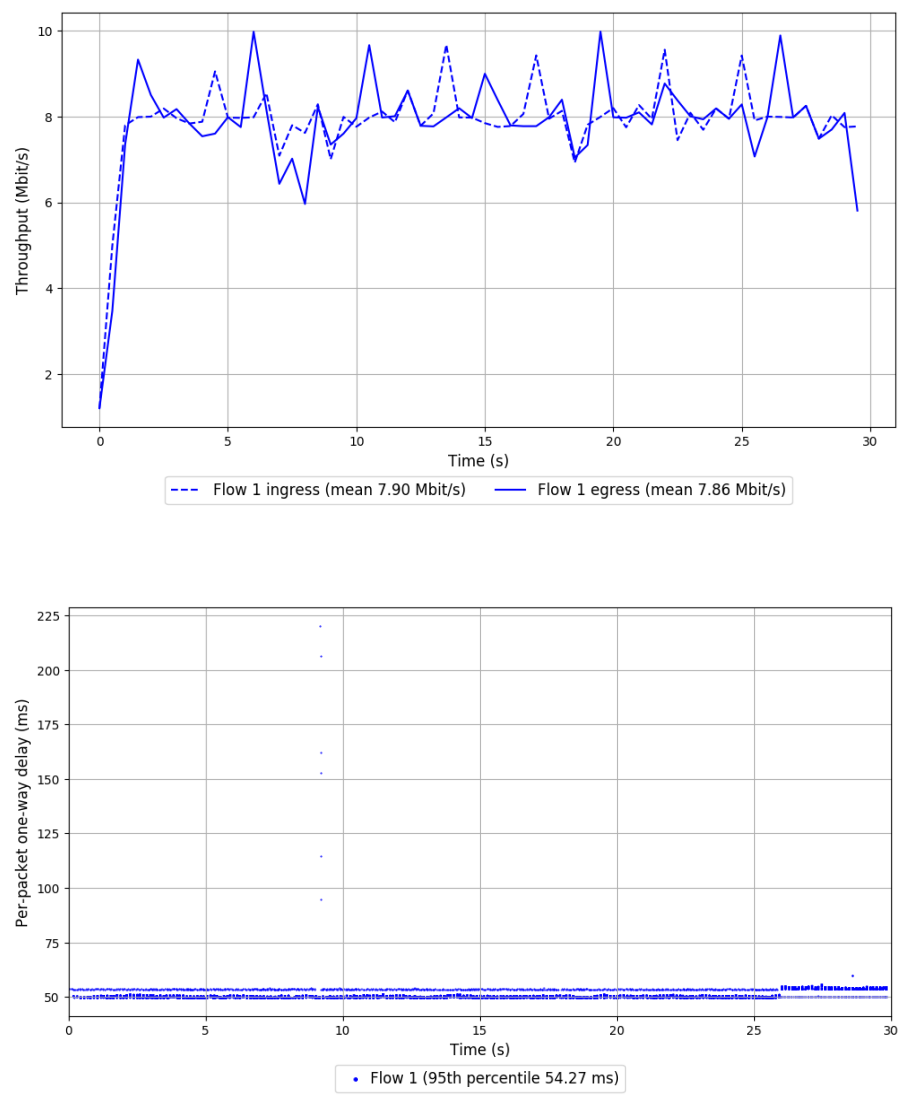
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 54.270 ms

Loss rate: 0.82%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

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

End at: 2018-02-13 04:21:50

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.220 ms

Loss rate: 0.10%

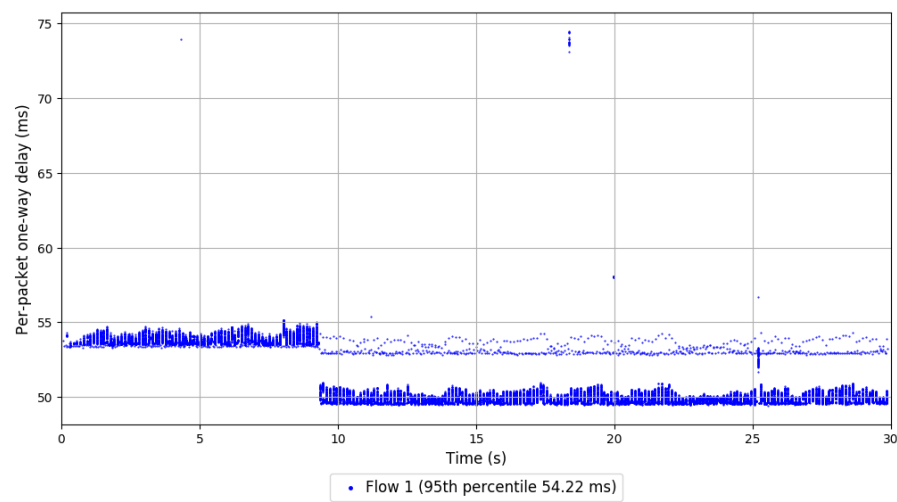
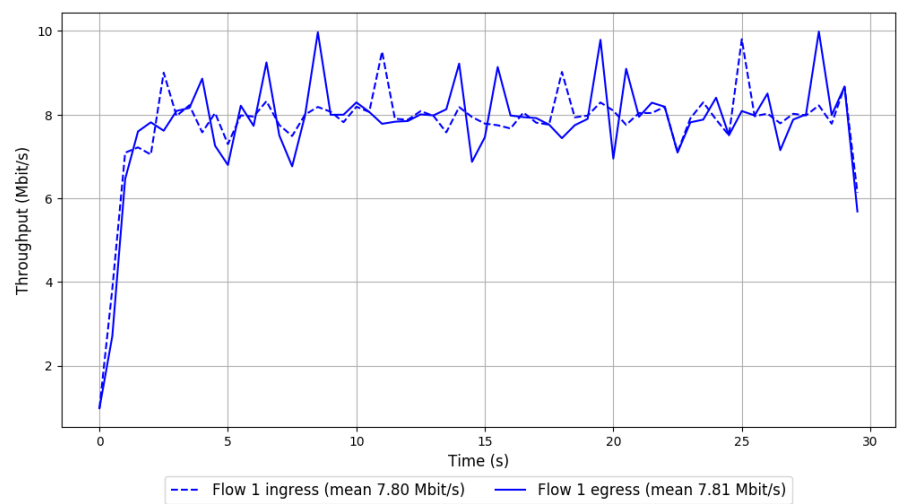
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.220 ms

Loss rate: 0.10%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-13 04:36:16

End at: 2018-02-13 04:36:46

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.49%

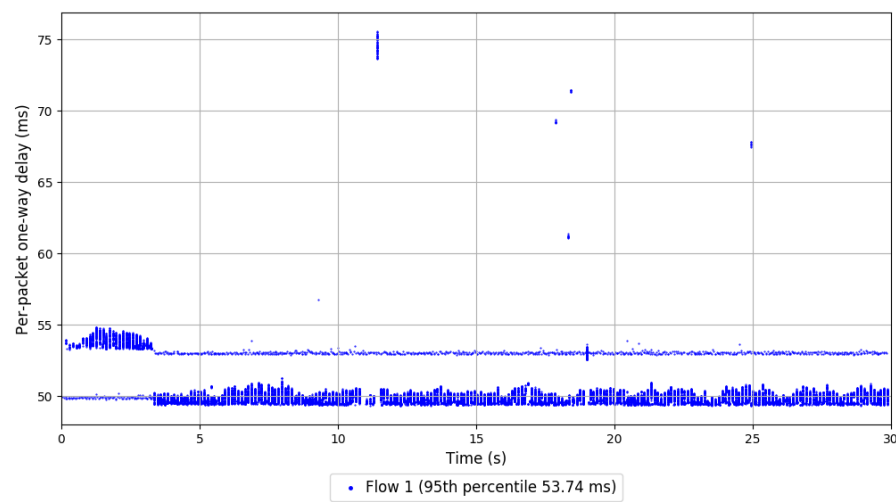
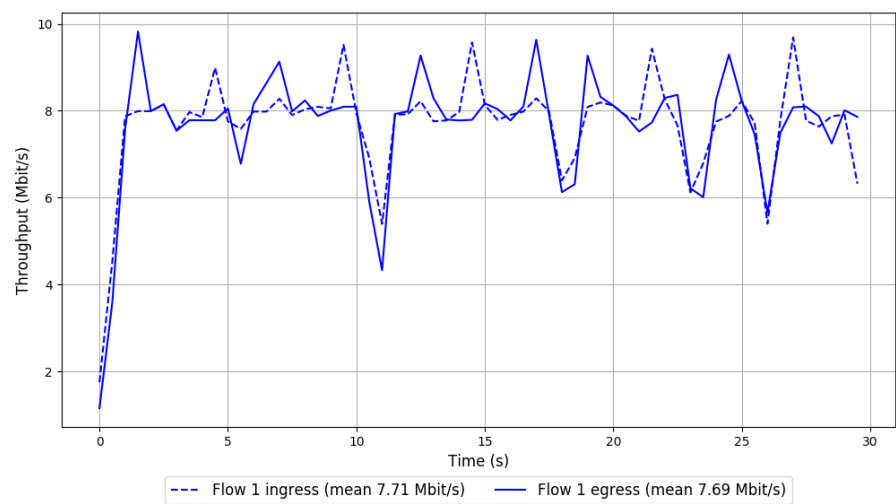
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 53.736 ms

Loss rate: 0.49%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-13 04:50:35

End at: 2018-02-13 04:51:05

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 54.035 ms

Loss rate: 0.38%

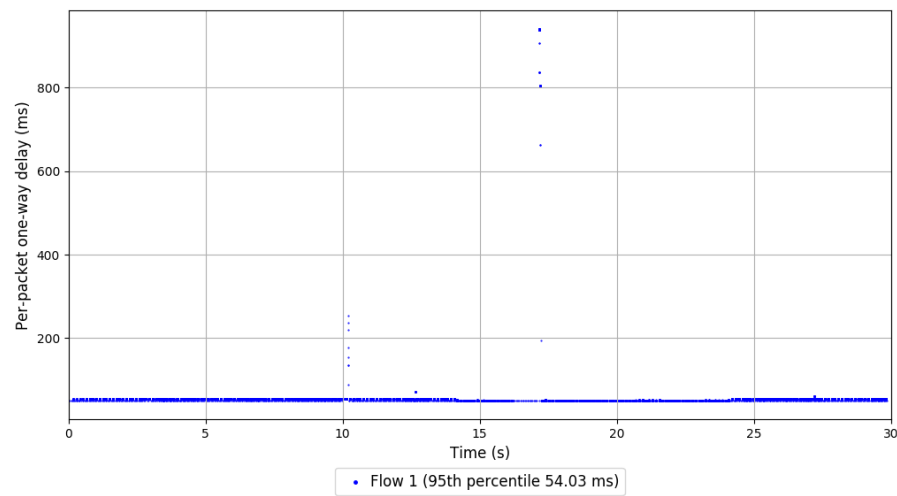
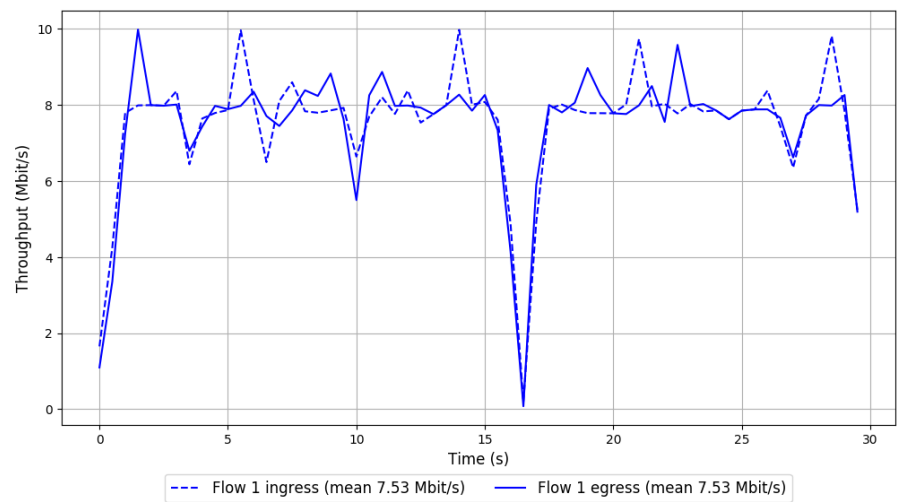
-- Flow 1:

Average throughput: 7.53 Mbit/s

95th percentile per-packet one-way delay: 54.035 ms

Loss rate: 0.38%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-13 05:04:55

End at: 2018-02-13 05:05:26

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

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

Loss rate: 0.41%

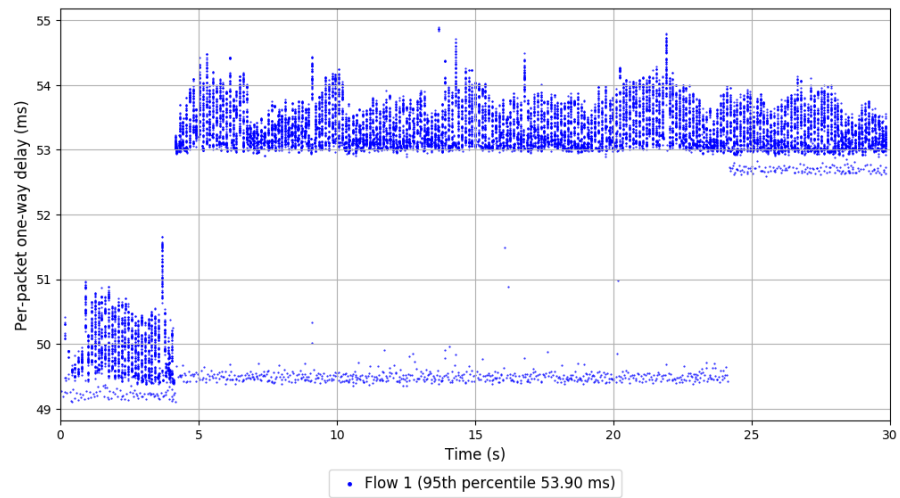
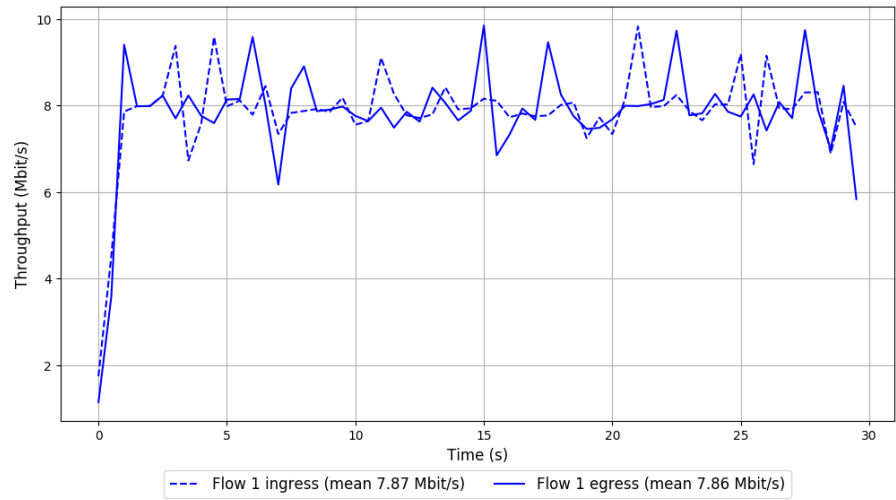
-- Flow 1:

Average throughput: 7.86 Mbit/s

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

Loss rate: 0.41%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-13 05:19:24

End at: 2018-02-13 05:19:54

Below is generated by plot.py at 2018-02-13 08:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 53.833 ms

Loss rate: 0.42%

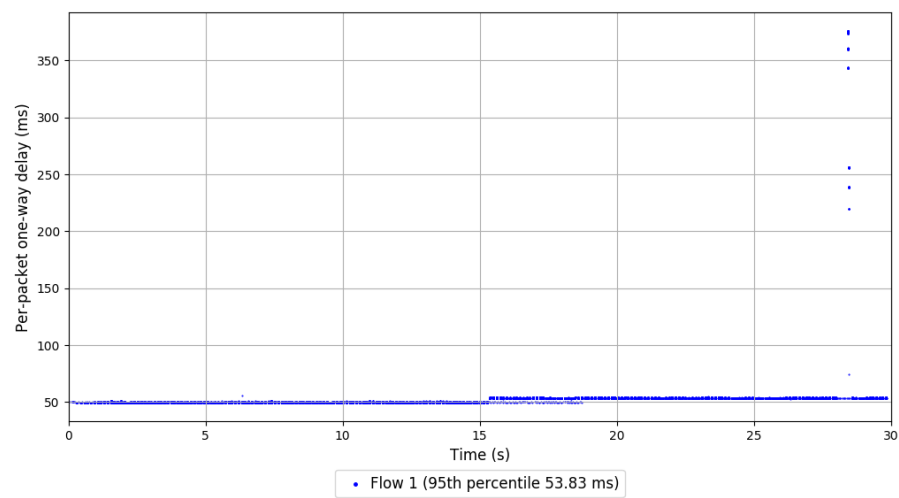
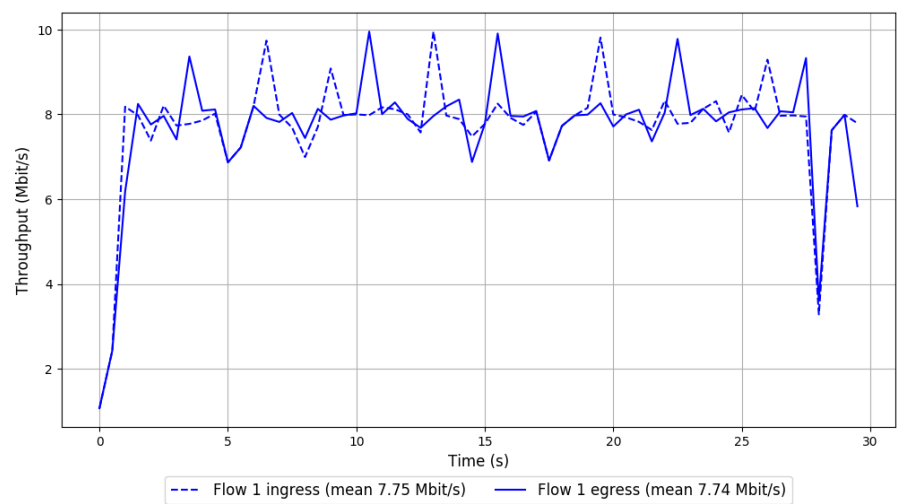
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 53.833 ms

Loss rate: 0.42%

Run 10: Report of Sprout — Data Link

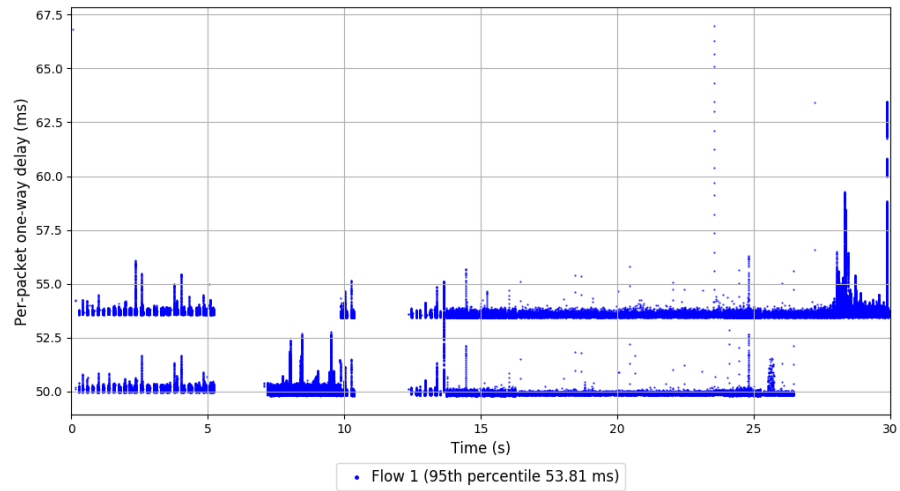
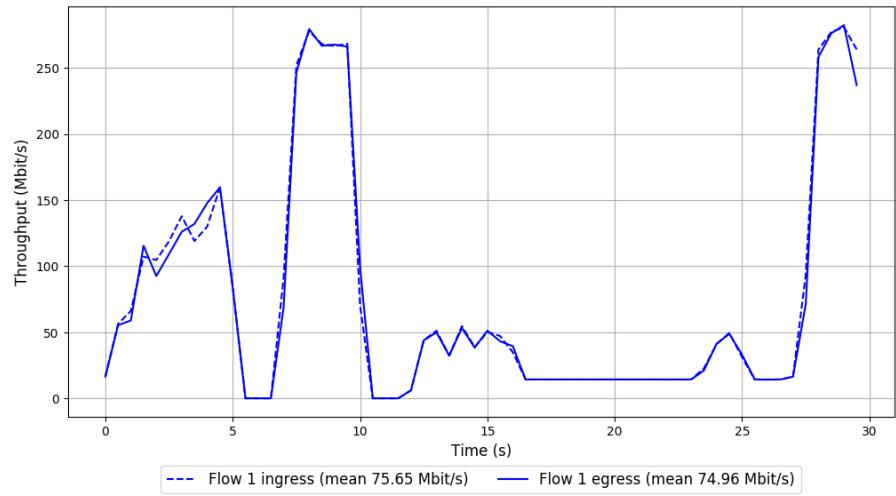


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 03:14:33
End at: 2018-02-13 03:15:03

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.96 Mbit/s
95th percentile per-packet one-way delay: 53.808 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 74.96 Mbit/s
95th percentile per-packet one-way delay: 53.808 ms
Loss rate: 1.30%
```


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

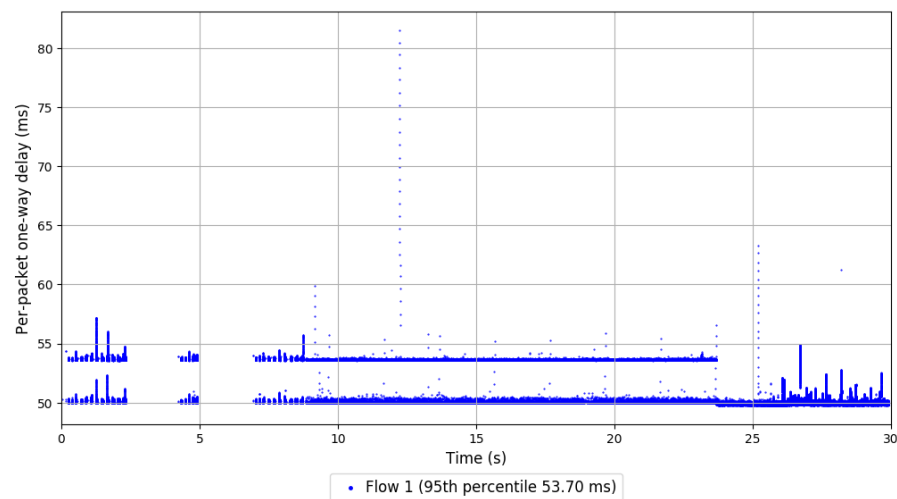
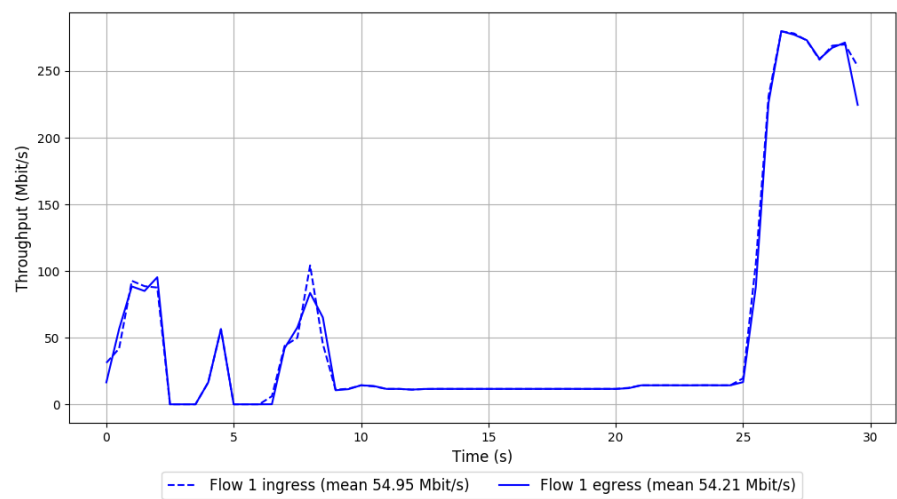


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 03:28:56
End at: 2018-02-13 03:29:26

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.21 Mbit/s
95th percentile per-packet one-way delay: 53.703 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 54.21 Mbit/s
95th percentile per-packet one-way delay: 53.703 ms
Loss rate: 1.69%
```

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

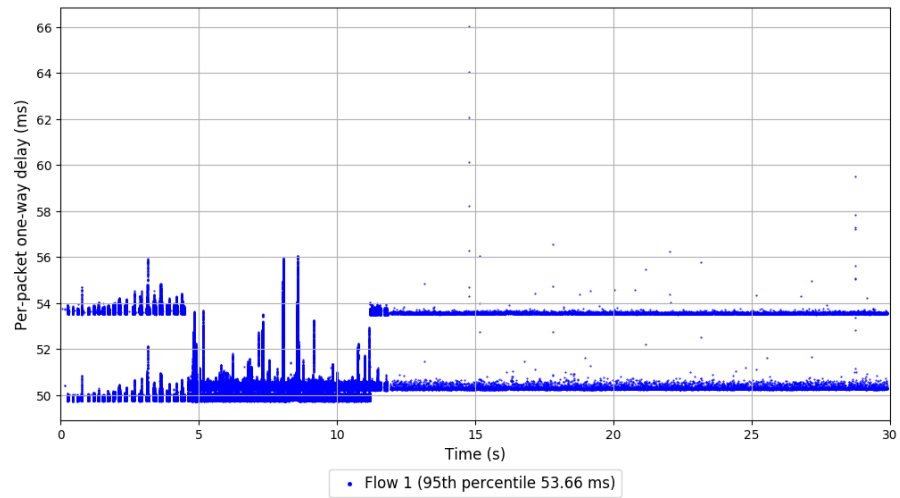
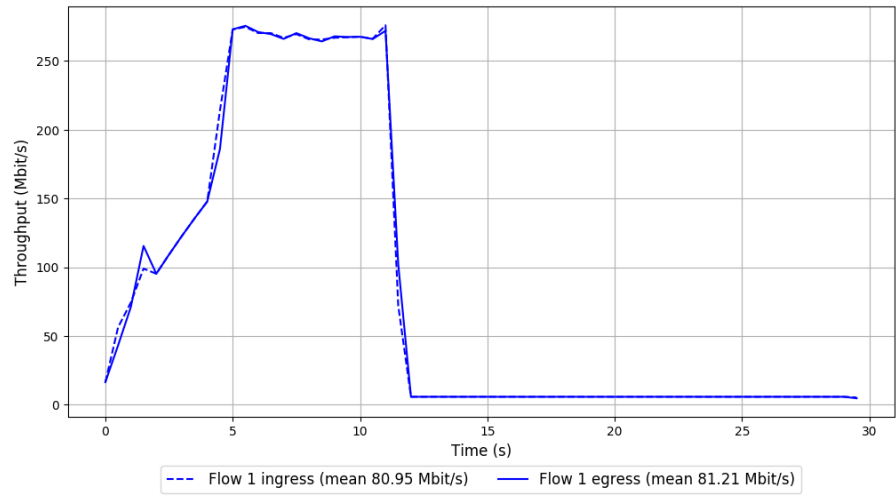


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 03:43:18
End at: 2018-02-13 03:43:48

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.21 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 81.21 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.03%
```

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

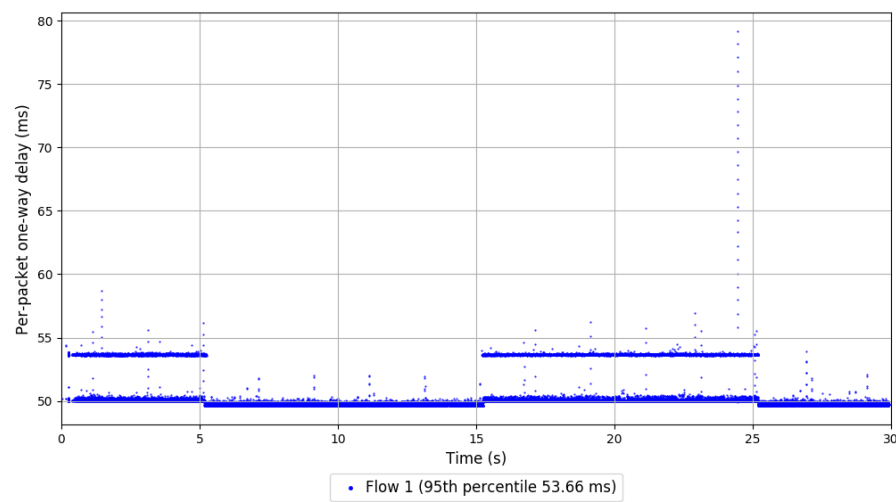
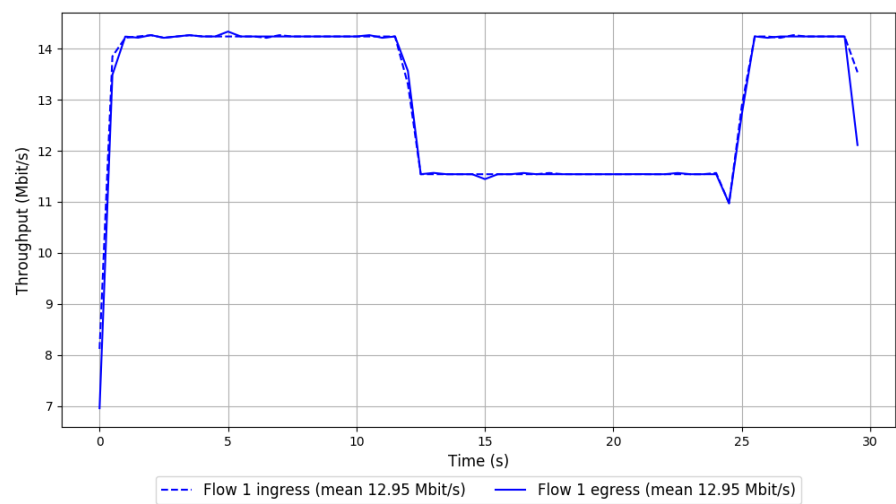


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-02-13 03:57:34
End at: 2018-02-13 03:58:05

# Below is generated by plot.py at 2018-02-13 08:28:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 12.95 Mbit/s
95th percentile per-packet one-way delay: 53.663 ms
Loss rate: 0.37%
```

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

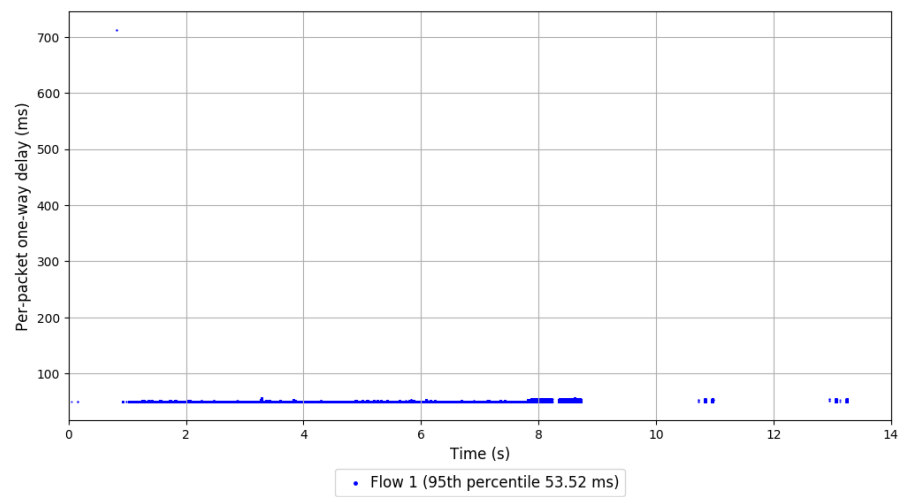
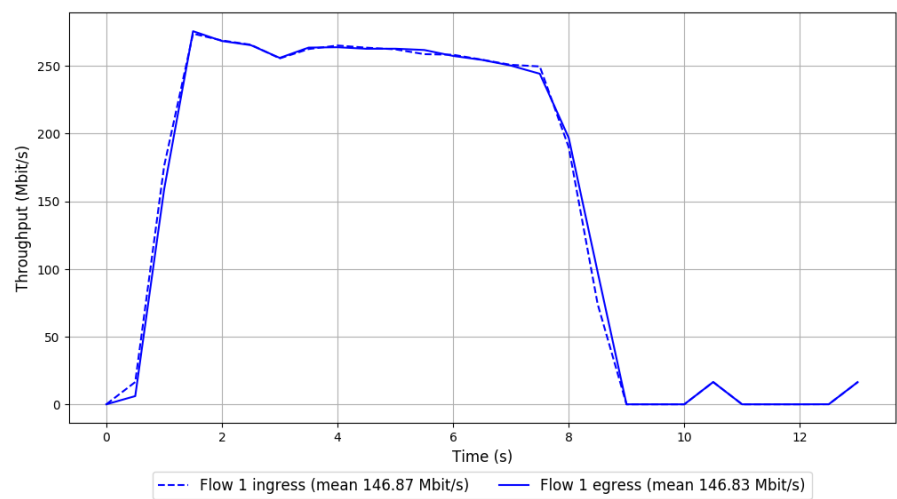


Run 5: Statistics of TaoVA-100x

Start at: 2018-02-13 04:11:52

End at: 2018-02-13 04:12:22

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-13 04:26:14

End at: 2018-02-13 04:26:44

Below is generated by plot.py at 2018-02-13 08:31:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.40 Mbit/s

95th percentile per-packet one-way delay: 53.395 ms

Loss rate: 0.33%

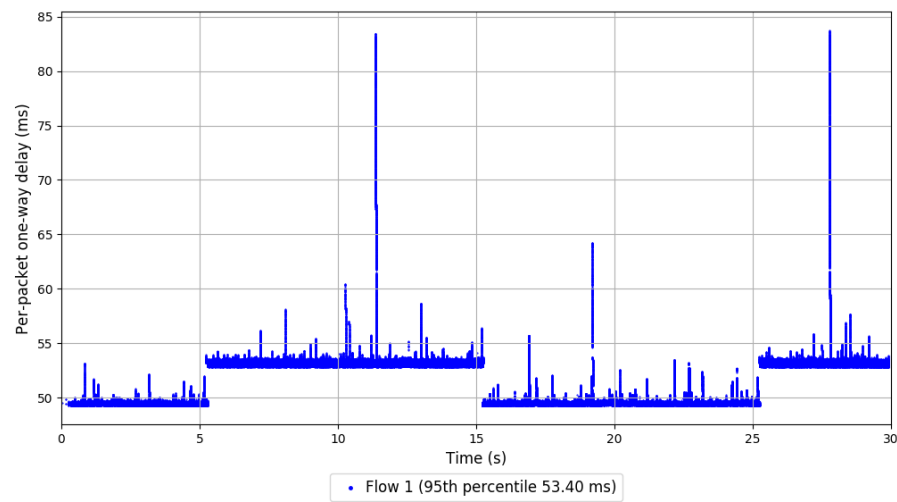
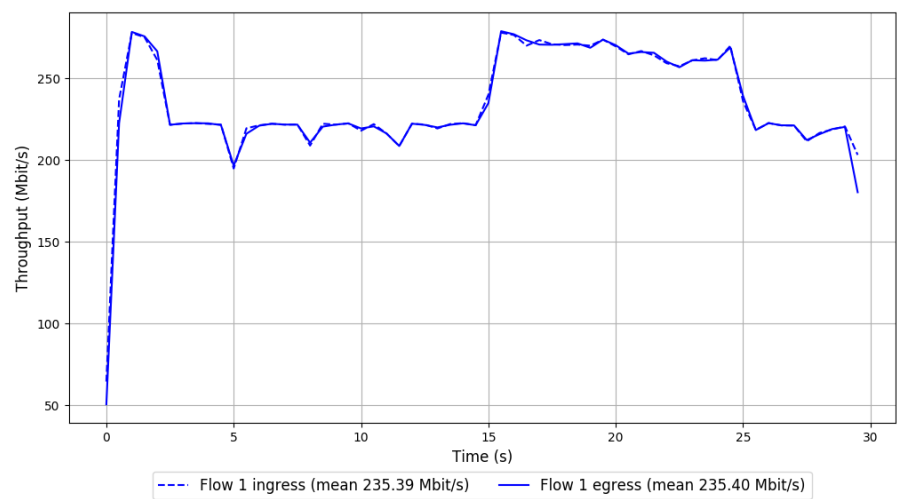
-- Flow 1:

Average throughput: 235.40 Mbit/s

95th percentile per-packet one-way delay: 53.395 ms

Loss rate: 0.33%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-13 04:41:03

End at: 2018-02-13 04:41:33

Below is generated by plot.py at 2018-02-13 08:31:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 53.277 ms

Loss rate: 0.13%

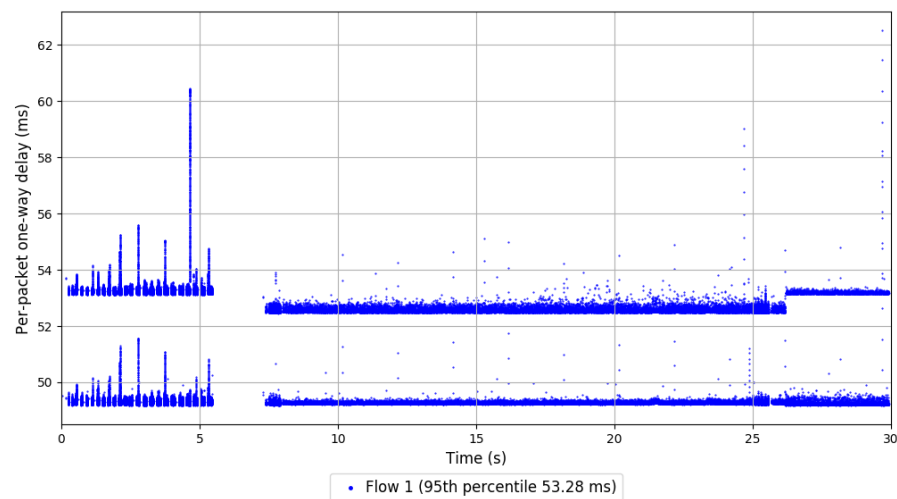
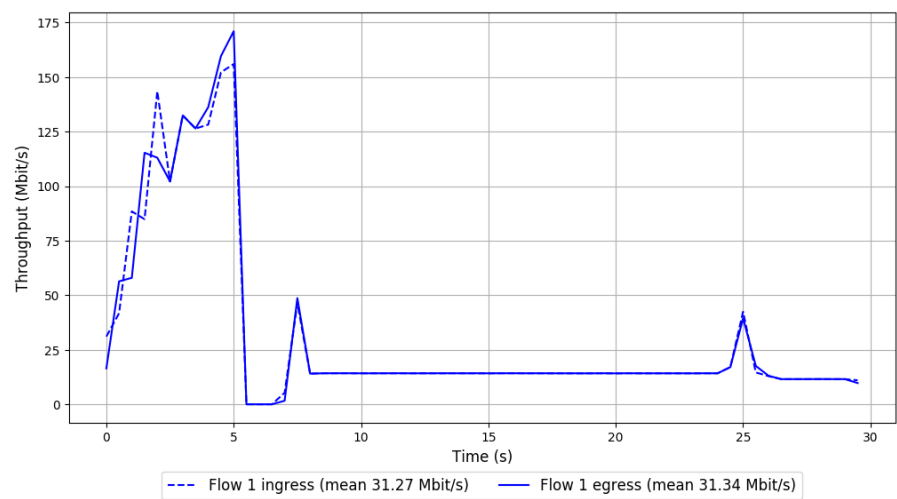
-- Flow 1:

Average throughput: 31.34 Mbit/s

95th percentile per-packet one-way delay: 53.277 ms

Loss rate: 0.13%

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

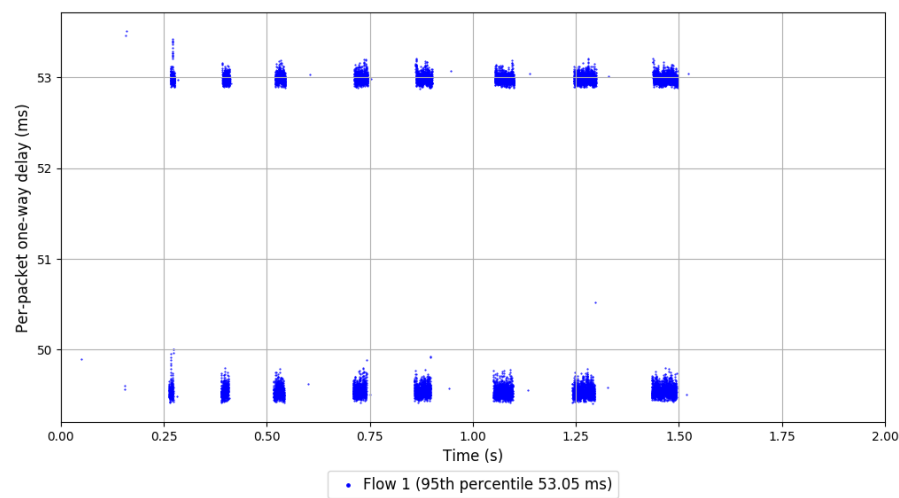
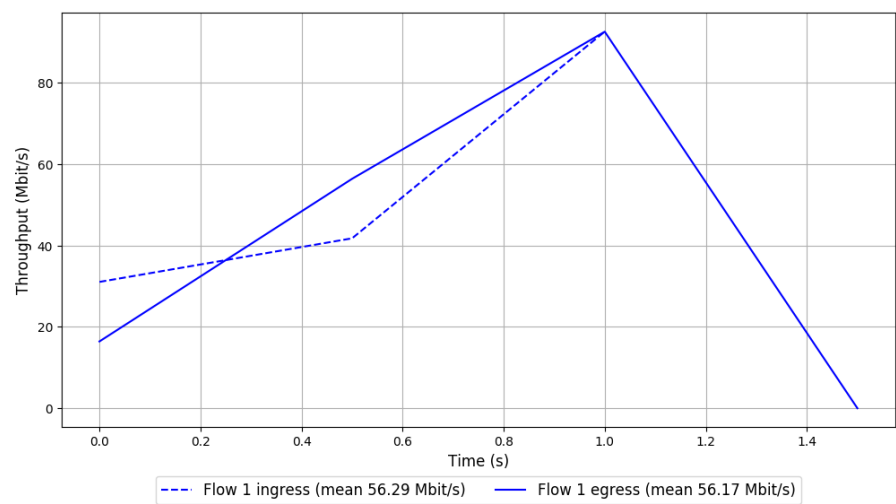


Run 8: Statistics of TaoVA-100x

Start at: 2018-02-13 04:55:23

End at: 2018-02-13 04:55:53

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 05:09:41

End at: 2018-02-13 05:10:11

Below is generated by plot.py at 2018-02-13 08:31:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.85 Mbit/s

95th percentile per-packet one-way delay: 52.939 ms

Loss rate: 0.00%

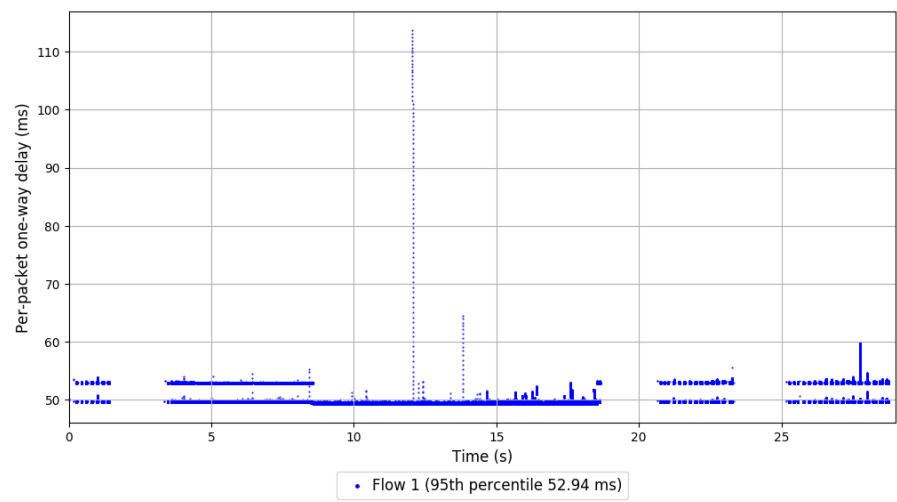
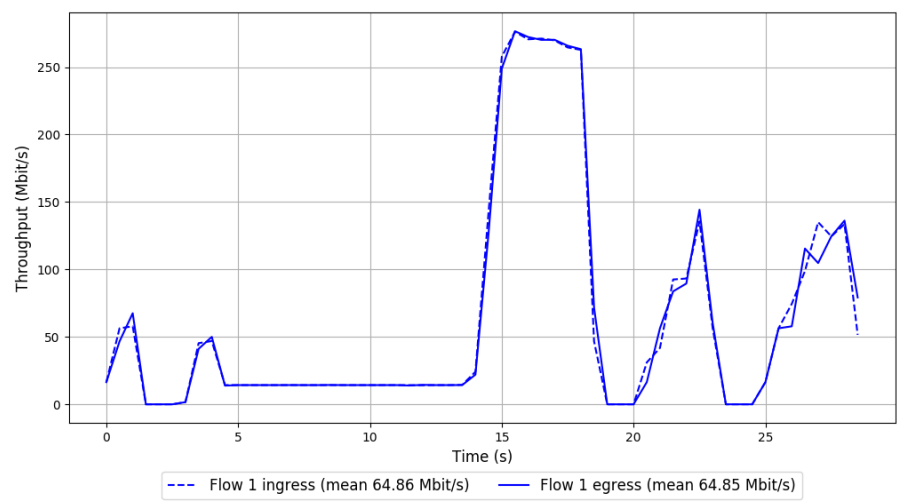
-- Flow 1:

Average throughput: 64.85 Mbit/s

95th percentile per-packet one-way delay: 52.939 ms

Loss rate: 0.00%

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

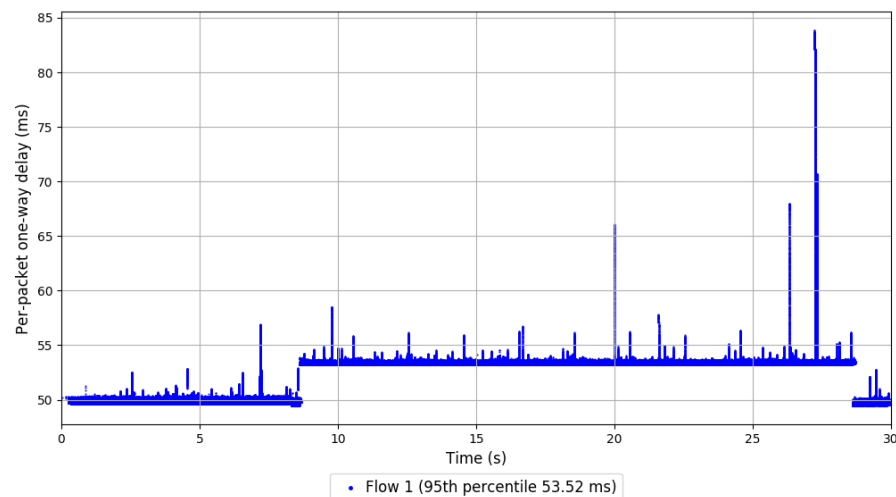
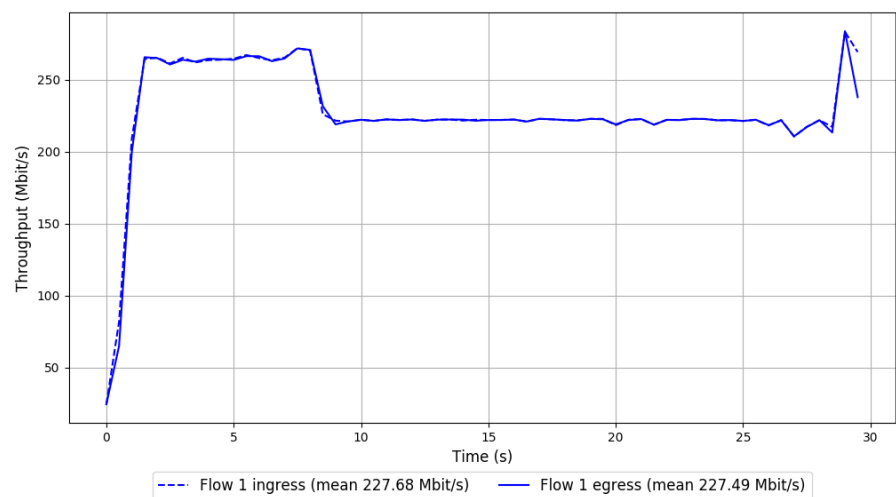


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 05:24:11
End at: 2018-02-13 05:24:41

# Below is generated by plot.py at 2018-02-13 08:32:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.49 Mbit/s
95th percentile per-packet one-way delay: 53.515 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 227.49 Mbit/s
95th percentile per-packet one-way delay: 53.515 ms
Loss rate: 0.43%
```

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



Run 1: Statistics of TCP Vegas

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

End at: 2018-02-13 03:08:33

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.02 Mbit/s

95th percentile per-packet one-way delay: 54.363 ms

Loss rate: 0.29%

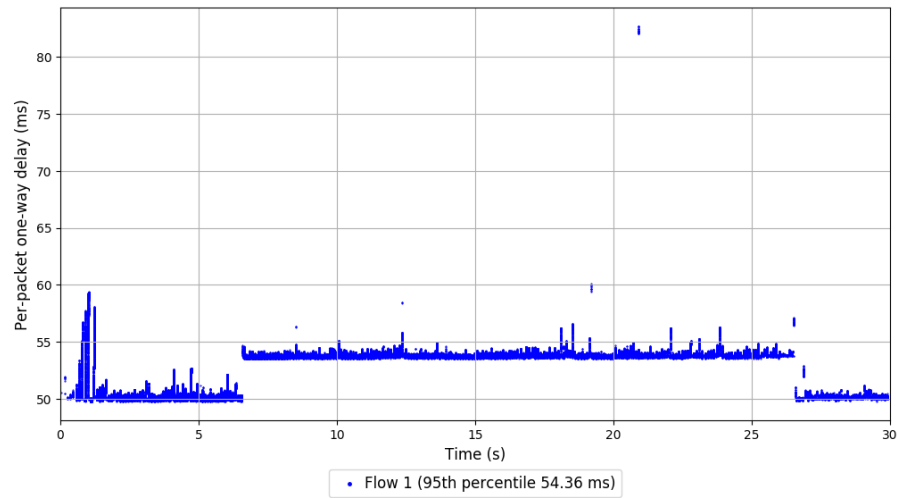
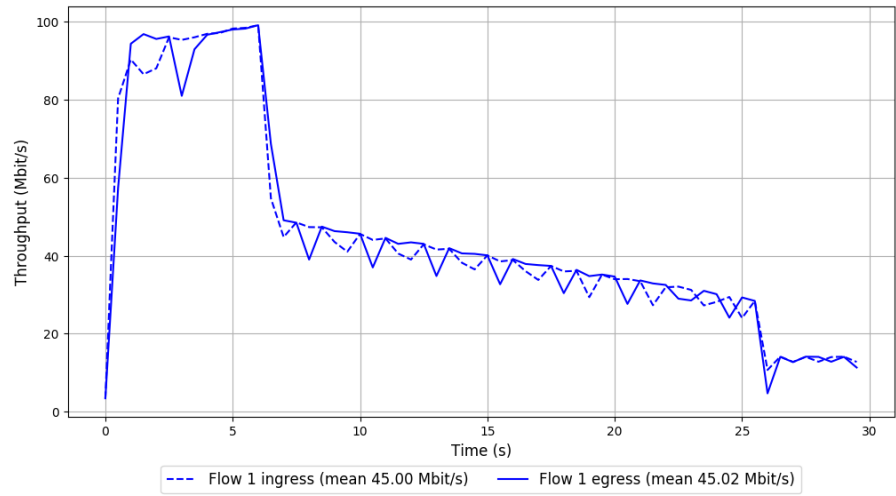
-- Flow 1:

Average throughput: 45.02 Mbit/s

95th percentile per-packet one-way delay: 54.363 ms

Loss rate: 0.29%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 03:22:22

End at: 2018-02-13 03:22:52

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.90 Mbit/s

95th percentile per-packet one-way delay: 54.246 ms

Loss rate: 0.26%

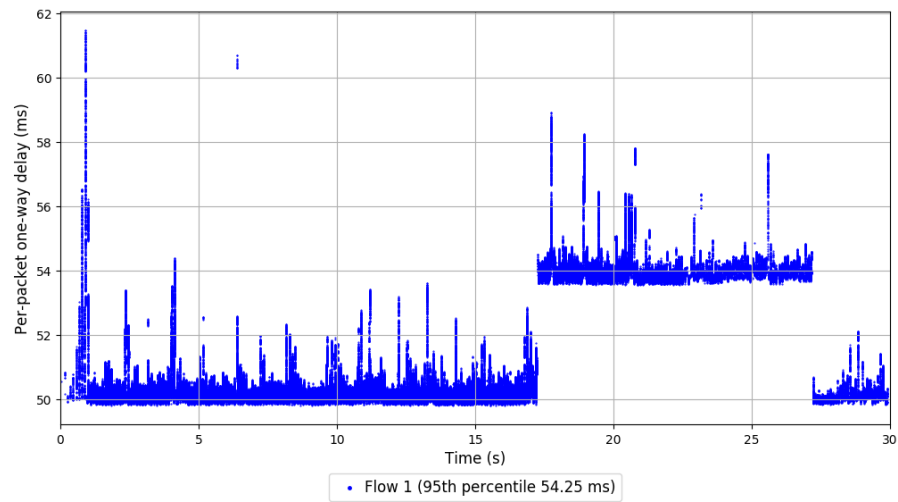
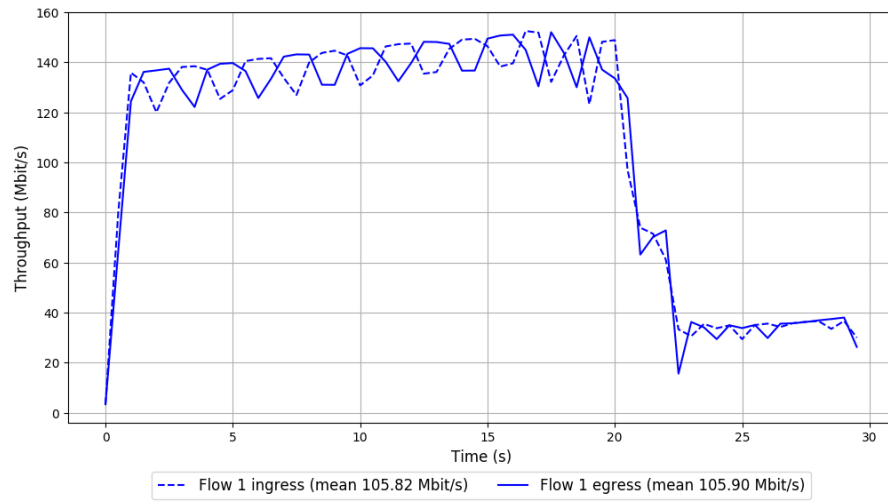
-- Flow 1:

Average throughput: 105.90 Mbit/s

95th percentile per-packet one-way delay: 54.246 ms

Loss rate: 0.26%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 03:36:43

End at: 2018-02-13 03:37:13

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.37 Mbit/s

95th percentile per-packet one-way delay: 55.031 ms

Loss rate: 0.50%

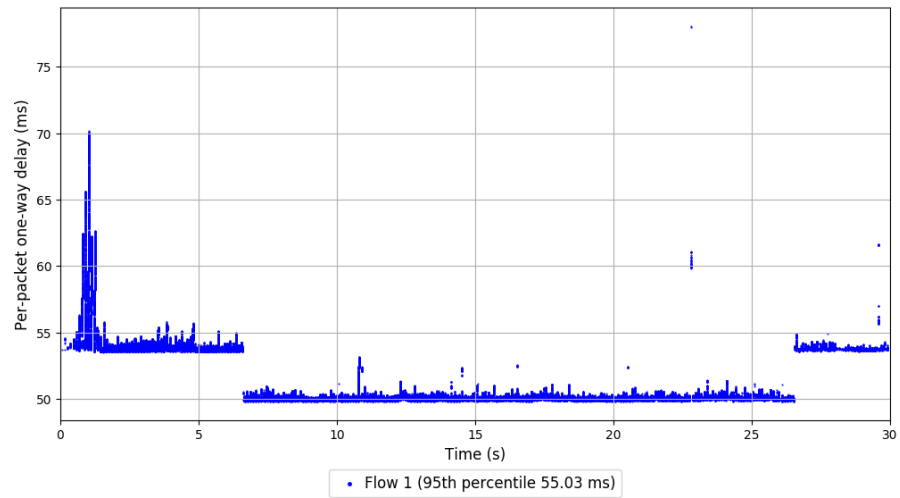
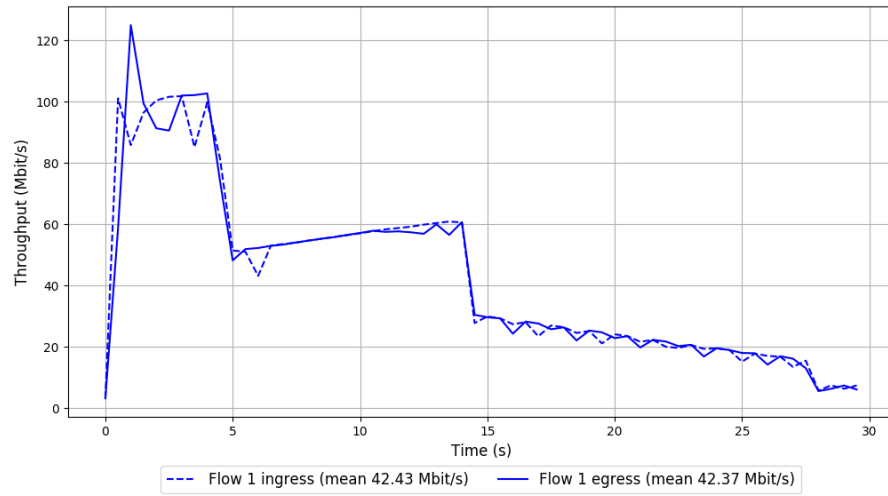
-- Flow 1:

Average throughput: 42.37 Mbit/s

95th percentile per-packet one-way delay: 55.031 ms

Loss rate: 0.50%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-13 03:51:07

End at: 2018-02-13 03:51:37

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.19 Mbit/s

95th percentile per-packet one-way delay: 54.348 ms

Loss rate: 0.19%

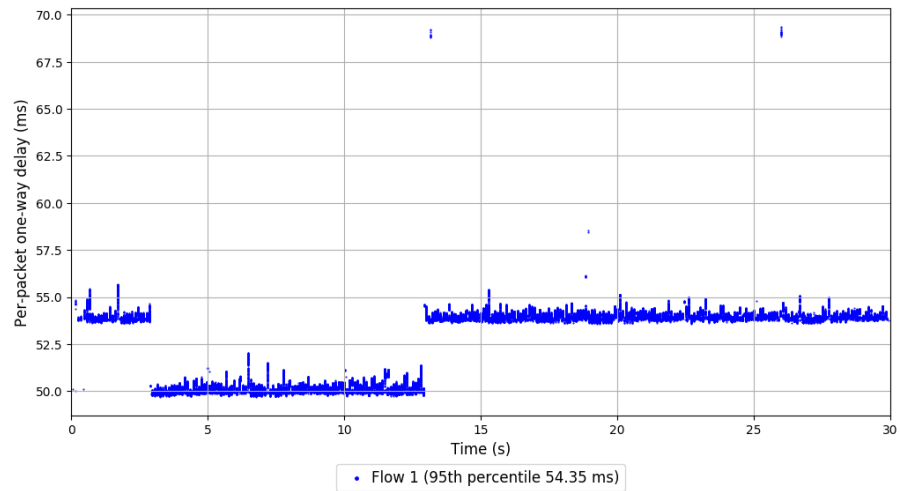
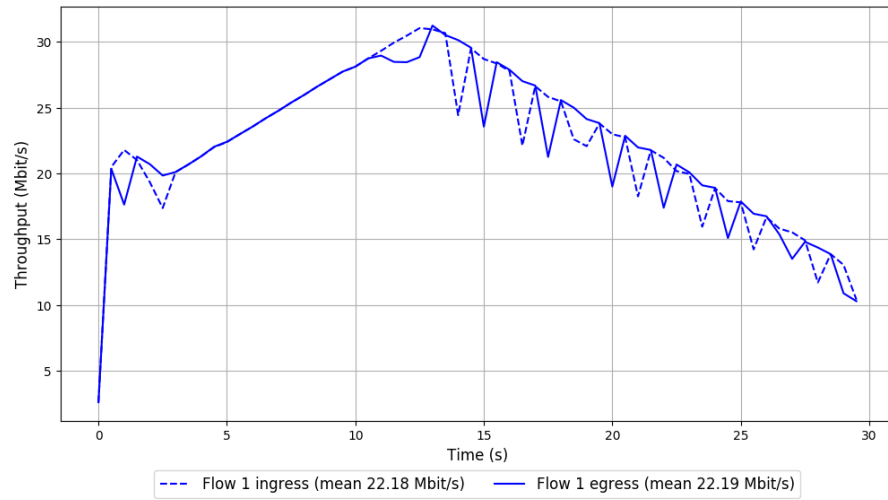
-- Flow 1:

Average throughput: 22.19 Mbit/s

95th percentile per-packet one-way delay: 54.348 ms

Loss rate: 0.19%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-13 04:05:19

End at: 2018-02-13 04:05:49

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.71 Mbit/s

95th percentile per-packet one-way delay: 55.059 ms

Loss rate: 1.04%

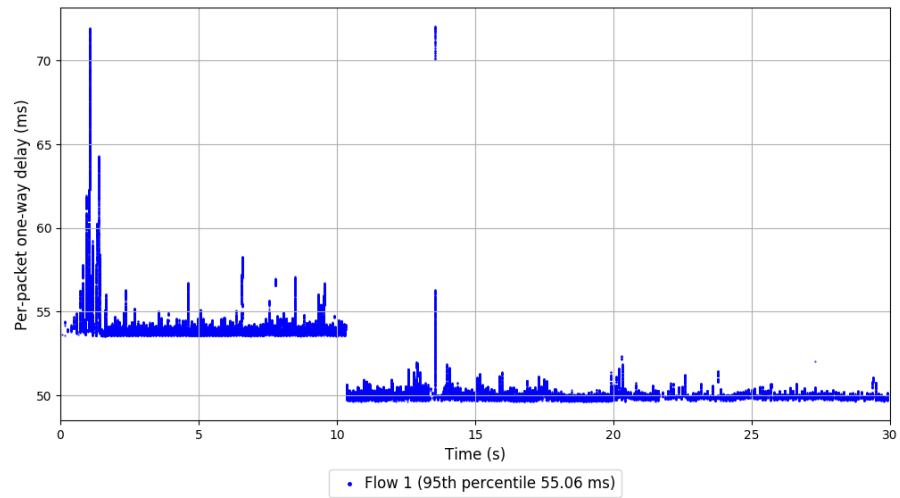
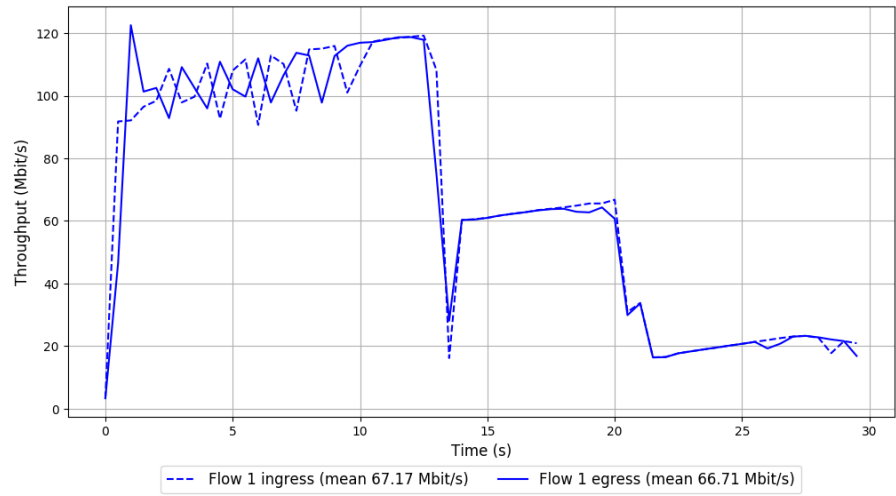
-- Flow 1:

Average throughput: 66.71 Mbit/s

95th percentile per-packet one-way delay: 55.059 ms

Loss rate: 1.04%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-13 04:19:43

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

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 53.899 ms

Loss rate: 0.73%

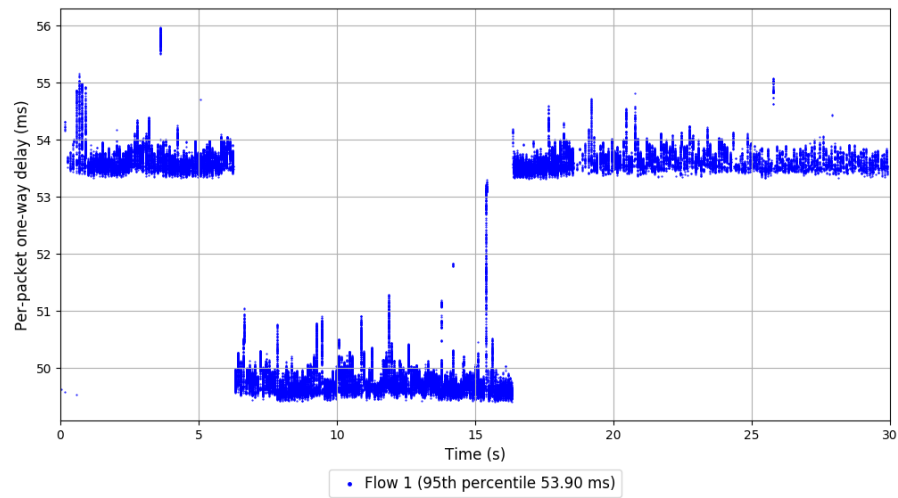
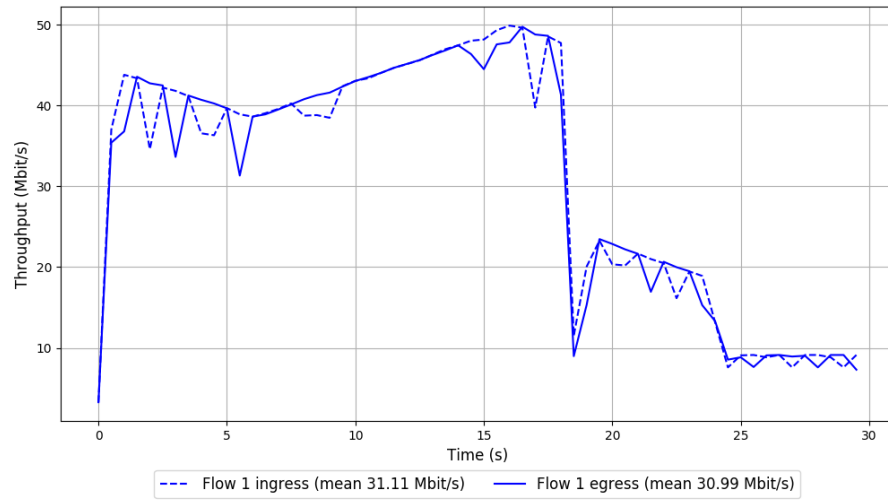
-- Flow 1:

Average throughput: 30.99 Mbit/s

95th percentile per-packet one-way delay: 53.899 ms

Loss rate: 0.73%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-13 04:34:23

End at: 2018-02-13 04:34:53

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.60 Mbit/s

95th percentile per-packet one-way delay: 59.918 ms

Loss rate: 0.18%

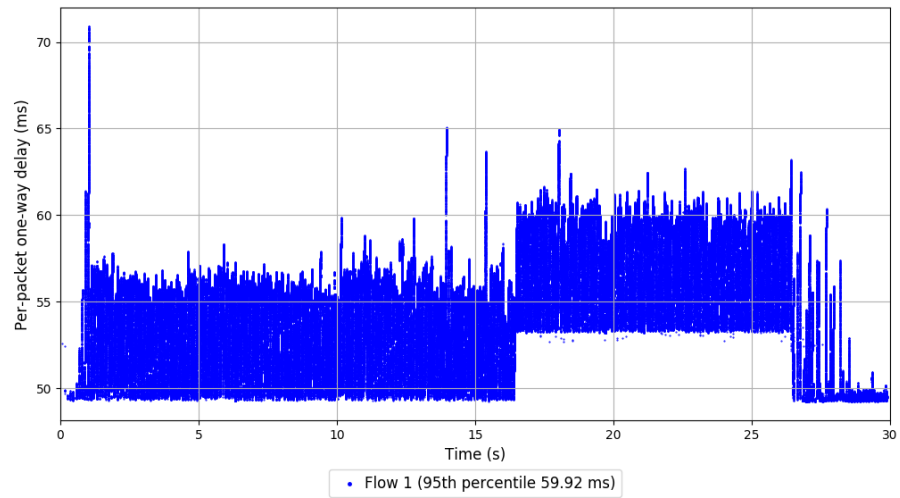
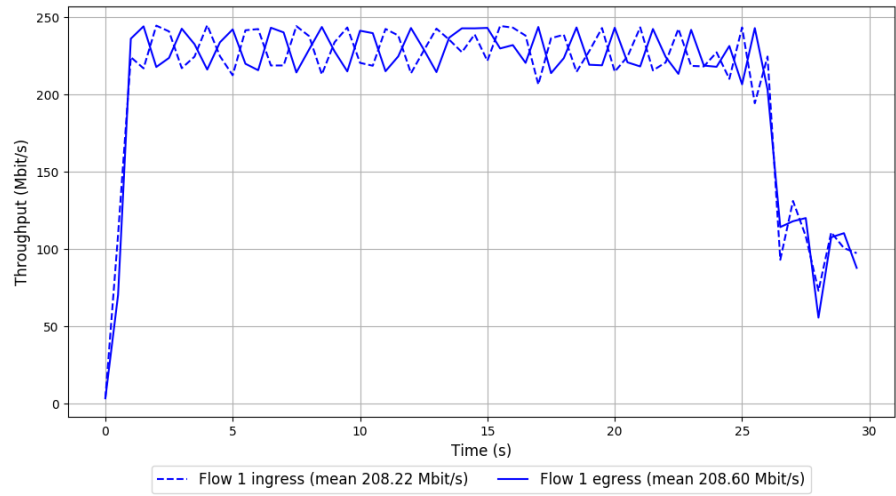
-- Flow 1:

Average throughput: 208.60 Mbit/s

95th percentile per-packet one-way delay: 59.918 ms

Loss rate: 0.18%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-13 04:48:47

End at: 2018-02-13 04:49:17

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 57.177 ms

Loss rate: 0.48%

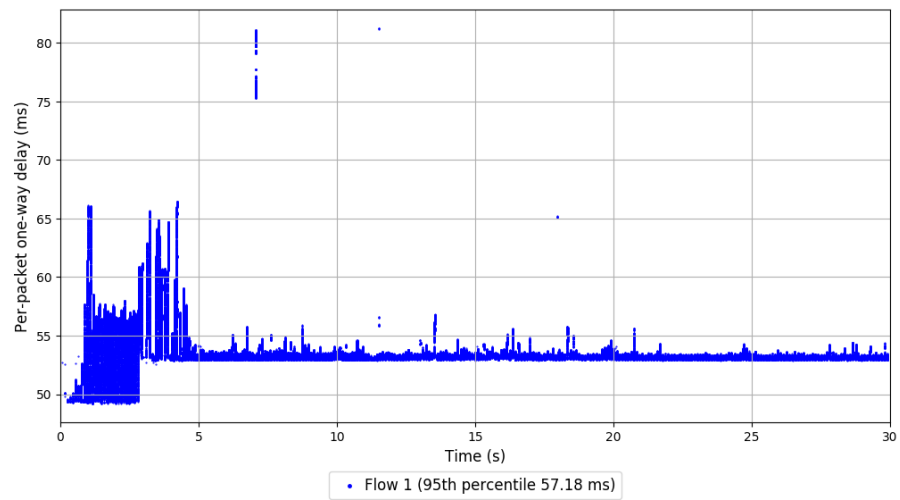
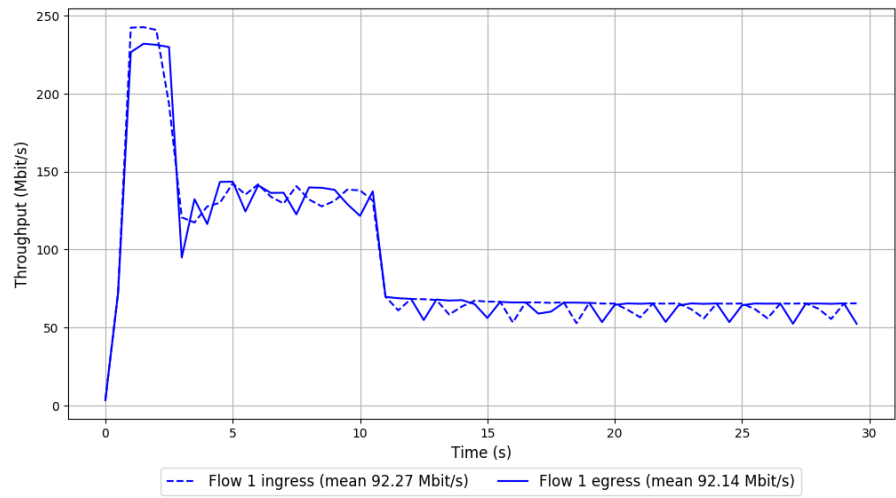
-- Flow 1:

Average throughput: 92.14 Mbit/s

95th percentile per-packet one-way delay: 57.177 ms

Loss rate: 0.48%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-13 05:03:13

End at: 2018-02-13 05:03:43

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.25 Mbit/s

95th percentile per-packet one-way delay: 53.401 ms

Loss rate: 0.28%

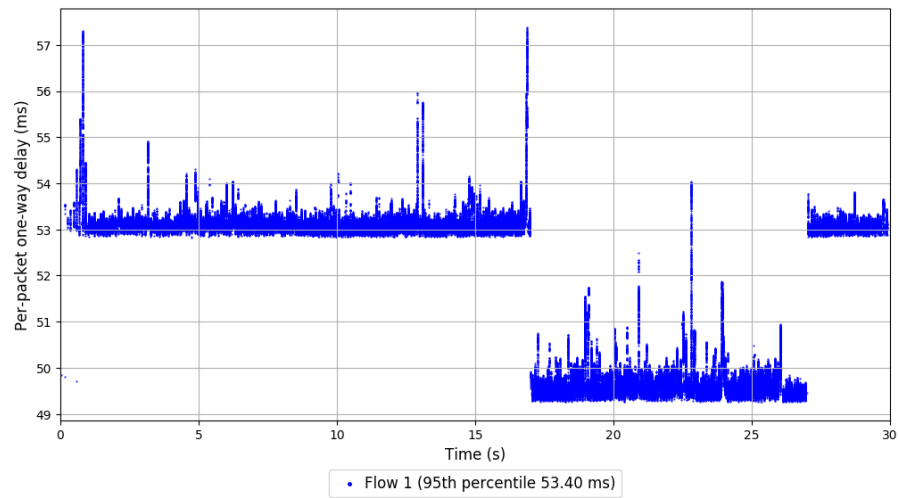
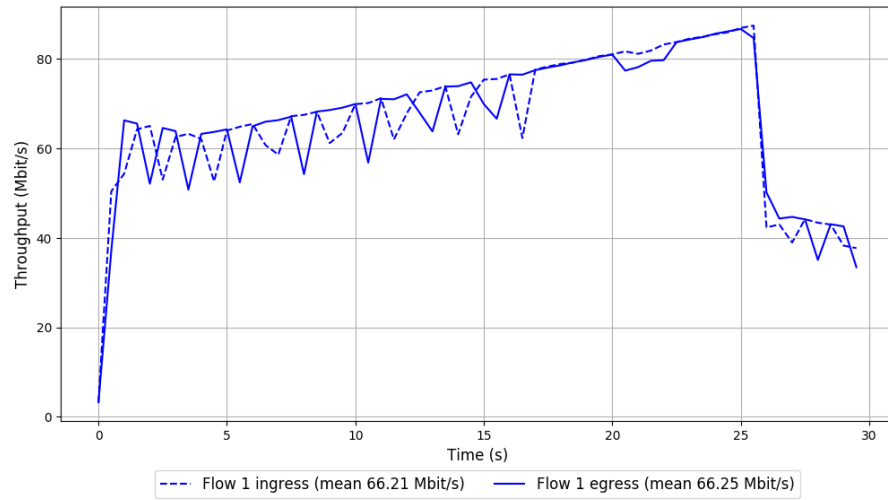
-- Flow 1:

Average throughput: 66.25 Mbit/s

95th percentile per-packet one-way delay: 53.401 ms

Loss rate: 0.28%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 05:17:35

End at: 2018-02-13 05:18:05

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.13 Mbit/s

95th percentile per-packet one-way delay: 60.823 ms

Loss rate: 0.17%

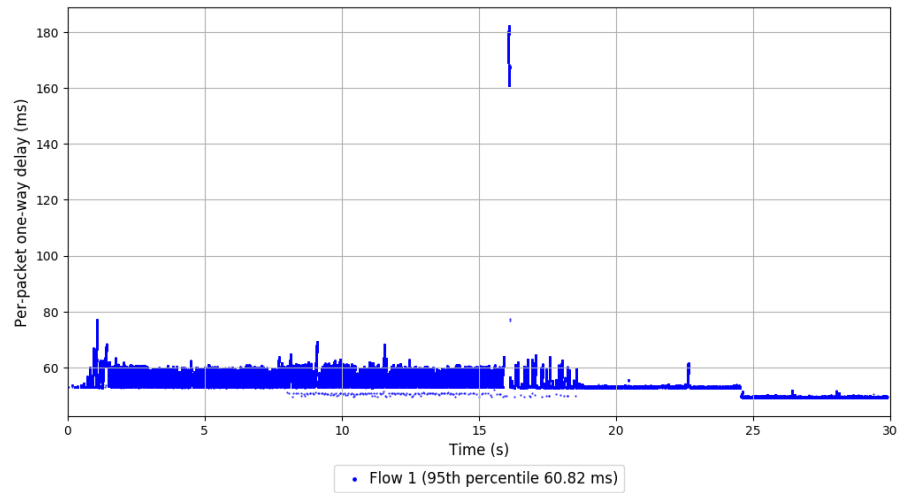
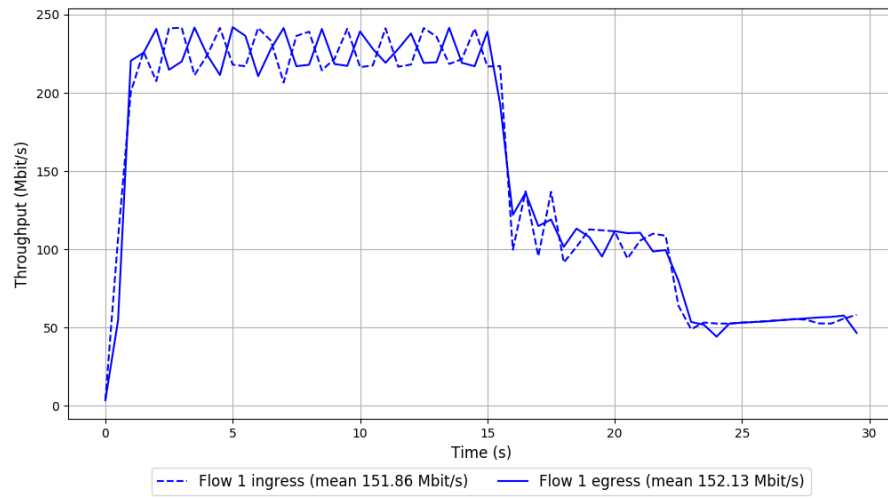
-- Flow 1:

Average throughput: 152.13 Mbit/s

95th percentile per-packet one-way delay: 60.823 ms

Loss rate: 0.17%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-13 03:10:26

End at: 2018-02-13 03:10:56

Below is generated by plot.py at 2018-02-13 08:32:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.43 Mbit/s

95th percentile per-packet one-way delay: 103.172 ms

Loss rate: 0.56%

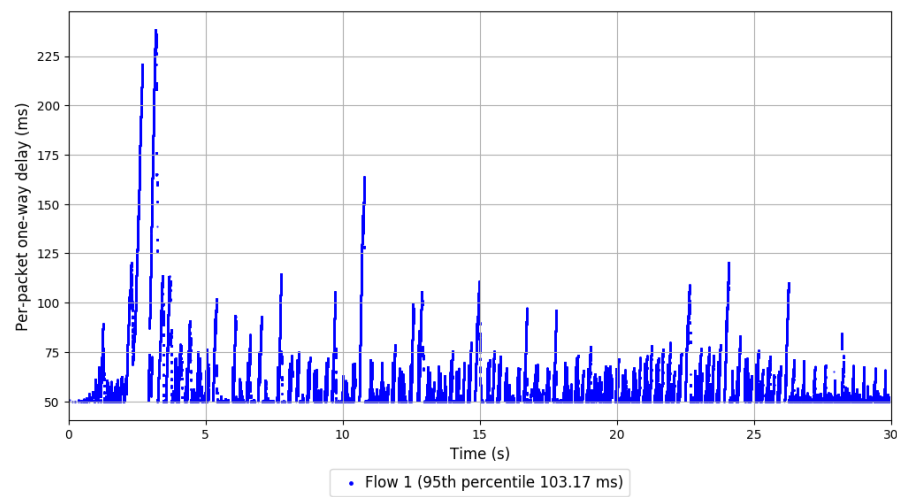
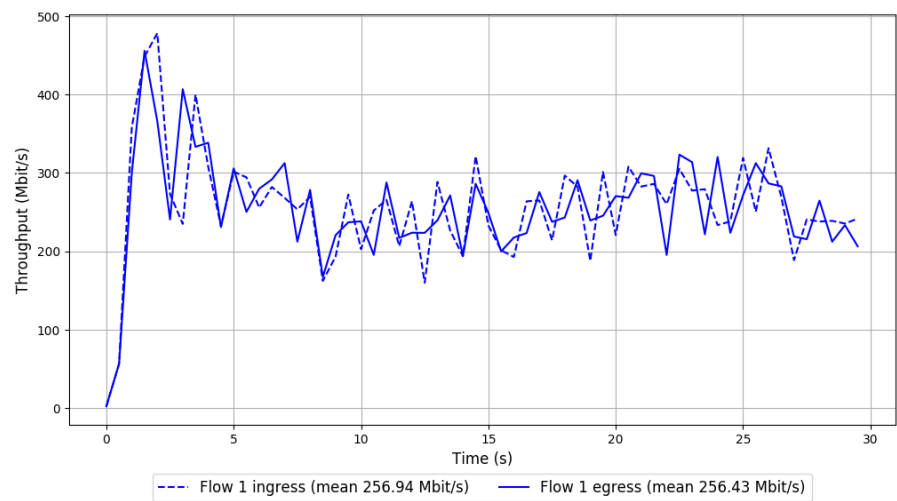
-- Flow 1:

Average throughput: 256.43 Mbit/s

95th percentile per-packet one-way delay: 103.172 ms

Loss rate: 0.56%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-13 03:24:48

End at: 2018-02-13 03:25:18

Below is generated by plot.py at 2018-02-13 08:32:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.95 Mbit/s

95th percentile per-packet one-way delay: 90.820 ms

Loss rate: 0.82%

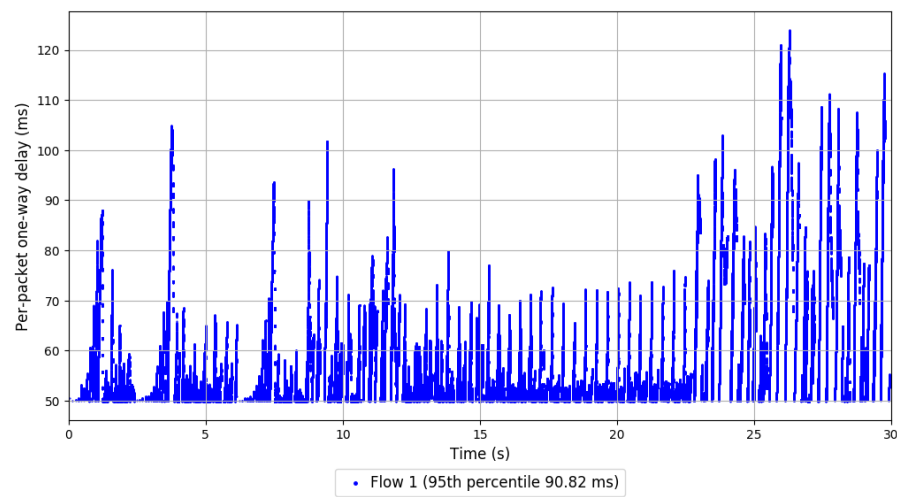
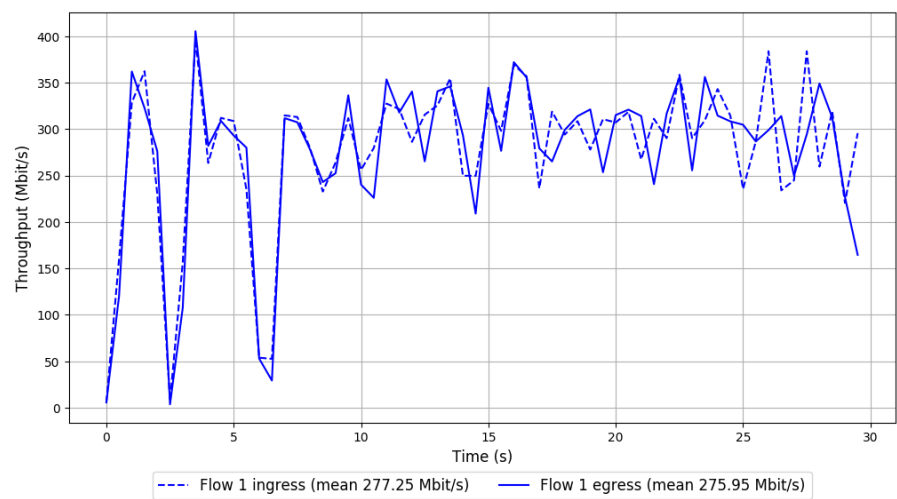
-- Flow 1:

Average throughput: 275.95 Mbit/s

95th percentile per-packet one-way delay: 90.820 ms

Loss rate: 0.82%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-13 03:39:07

End at: 2018-02-13 03:39:37

Below is generated by plot.py at 2018-02-13 08:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.70 Mbit/s

95th percentile per-packet one-way delay: 92.815 ms

Loss rate: 0.09%

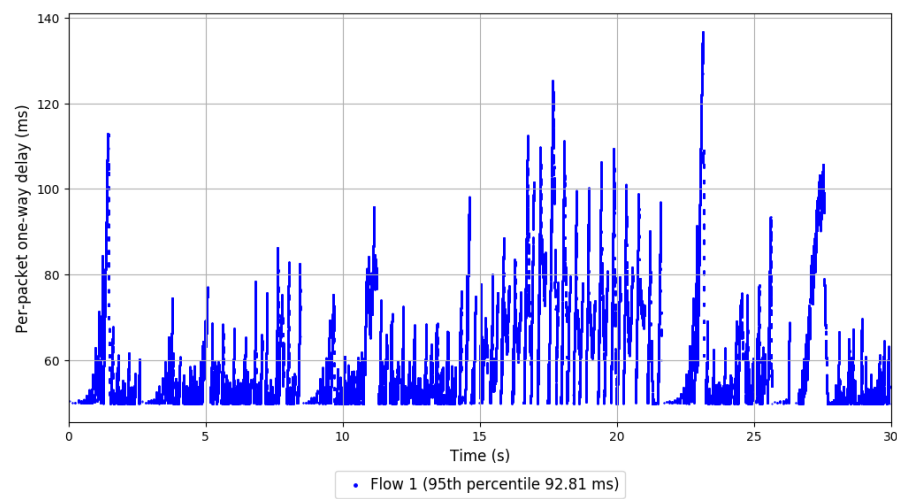
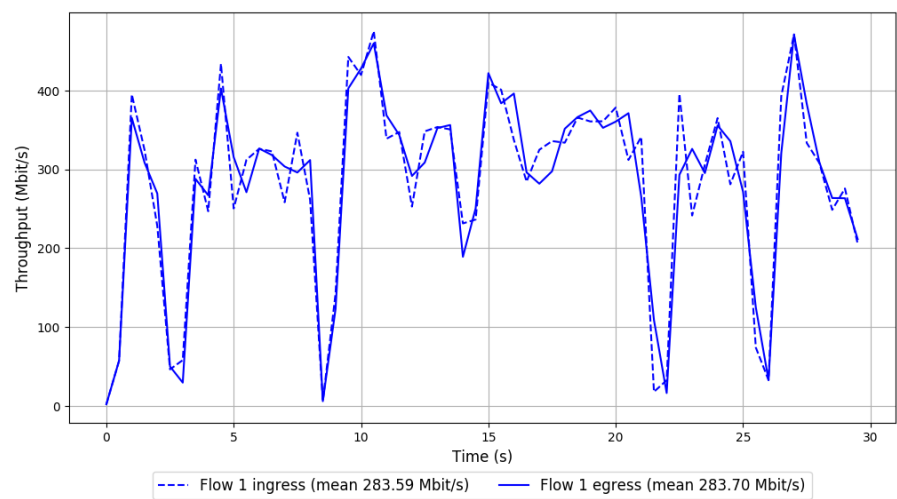
-- Flow 1:

Average throughput: 283.70 Mbit/s

95th percentile per-packet one-way delay: 92.815 ms

Loss rate: 0.09%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-13 03:53:26

End at: 2018-02-13 03:53:56

Below is generated by plot.py at 2018-02-13 08:33:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.48 Mbit/s

95th percentile per-packet one-way delay: 90.940 ms

Loss rate: 1.09%

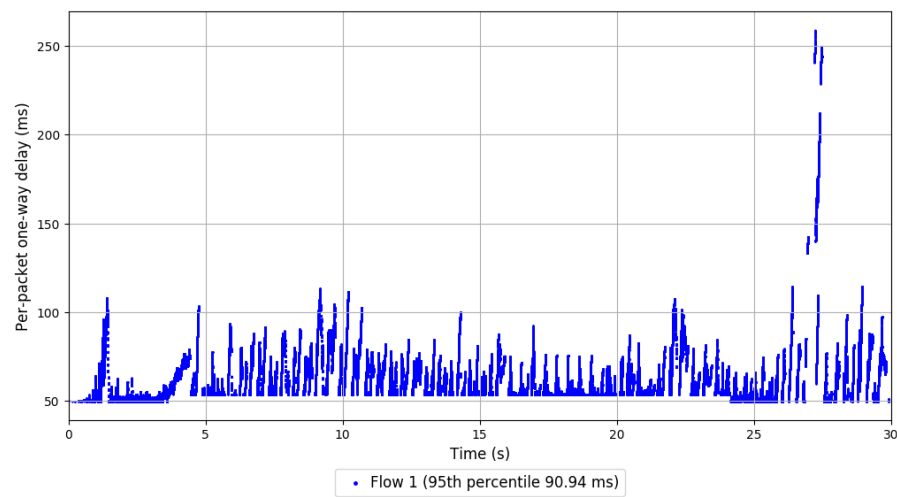
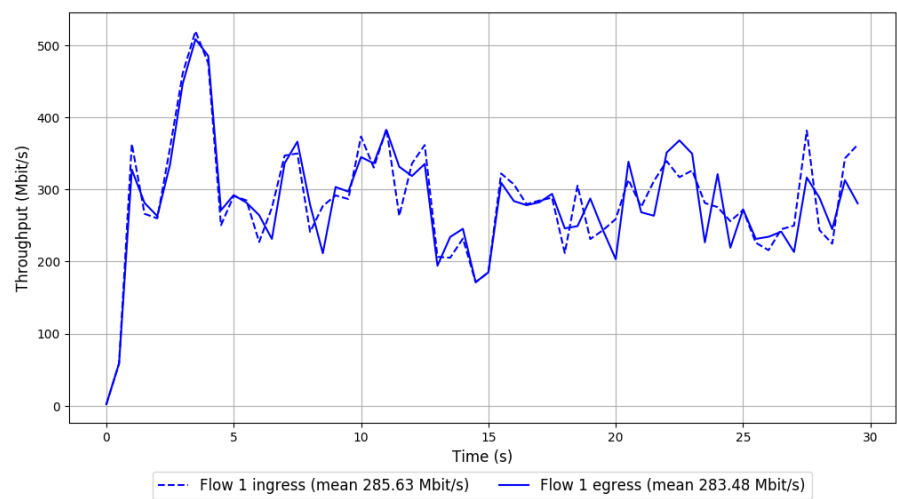
-- Flow 1:

Average throughput: 283.48 Mbit/s

95th percentile per-packet one-way delay: 90.940 ms

Loss rate: 1.09%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-13 04:07:41

End at: 2018-02-13 04:08:11

Below is generated by plot.py at 2018-02-13 08:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.11 Mbit/s

95th percentile per-packet one-way delay: 132.176 ms

Loss rate: 0.22%

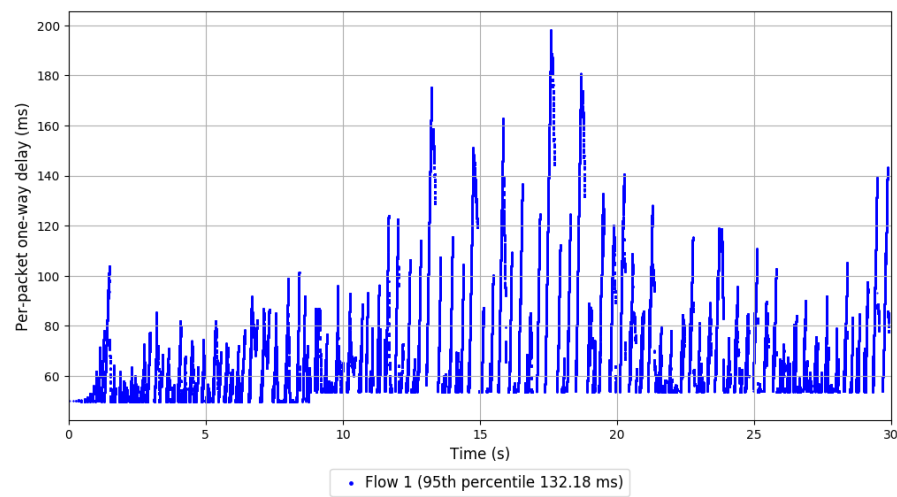
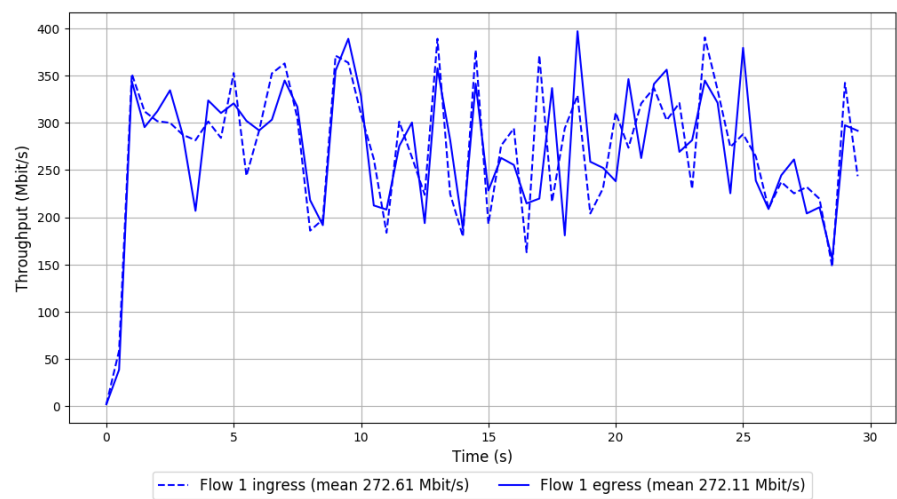
-- Flow 1:

Average throughput: 272.11 Mbit/s

95th percentile per-packet one-way delay: 132.176 ms

Loss rate: 0.22%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-13 04:21:58

End at: 2018-02-13 04:22:28

Below is generated by plot.py at 2018-02-13 08:34:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.15 Mbit/s

95th percentile per-packet one-way delay: 212.260 ms

Loss rate: 1.44%

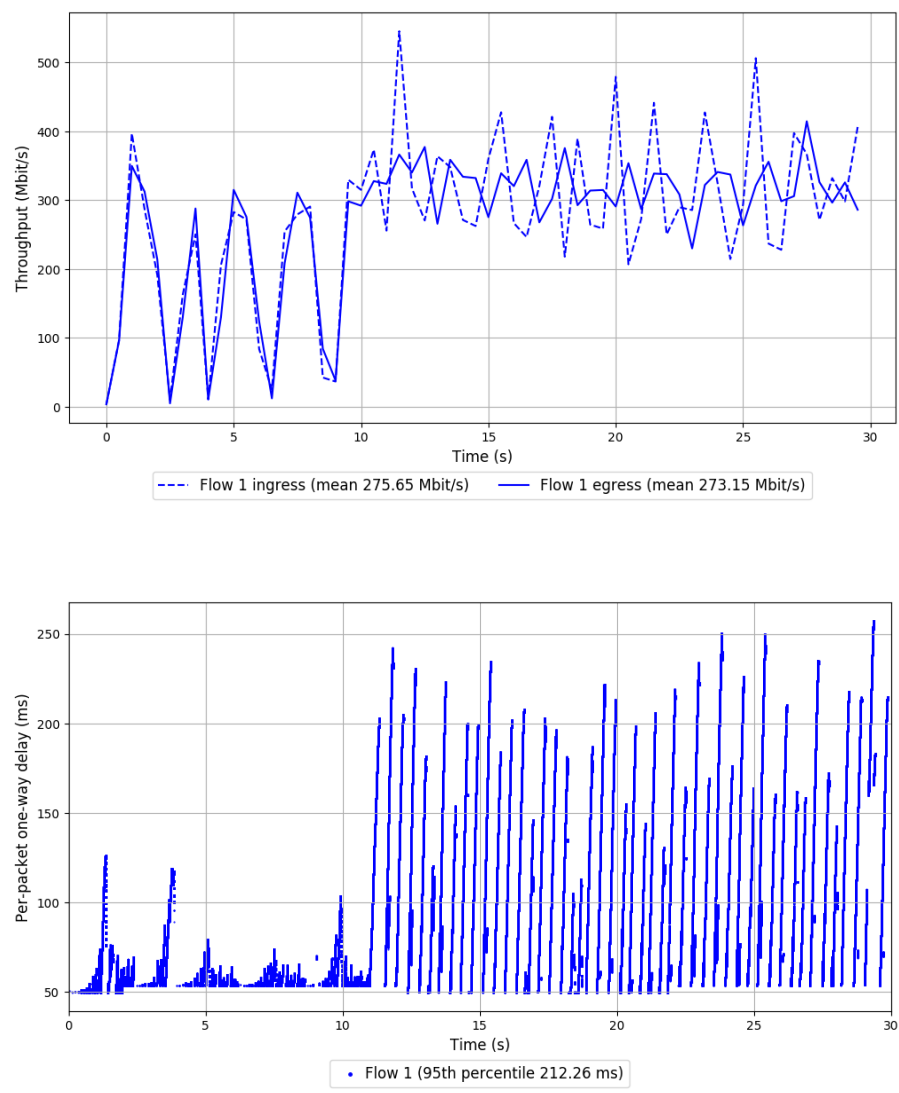
-- Flow 1:

Average throughput: 273.15 Mbit/s

95th percentile per-packet one-way delay: 212.260 ms

Loss rate: 1.44%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-13 04:36:54

End at: 2018-02-13 04:37:24

Below is generated by plot.py at 2018-02-13 08:35:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.13 Mbit/s

95th percentile per-packet one-way delay: 90.488 ms

Loss rate: 0.00%

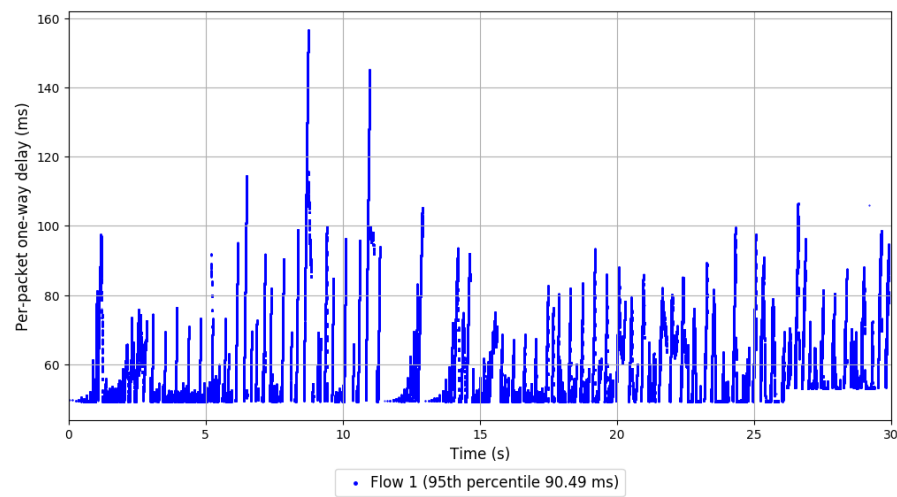
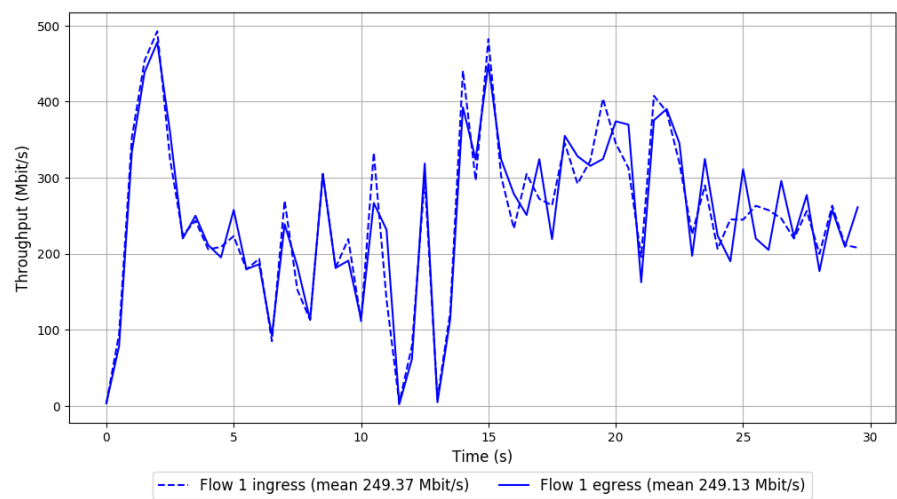
-- Flow 1:

Average throughput: 249.13 Mbit/s

95th percentile per-packet one-way delay: 90.488 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-13 04:51:13

End at: 2018-02-13 04:51:43

Below is generated by plot.py at 2018-02-13 08:36:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.02 Mbit/s

95th percentile per-packet one-way delay: 176.129 ms

Loss rate: 0.59%

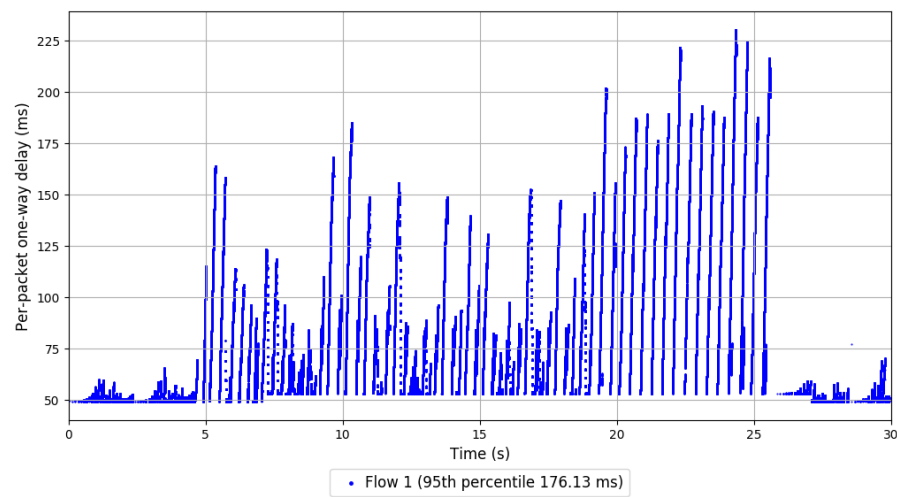
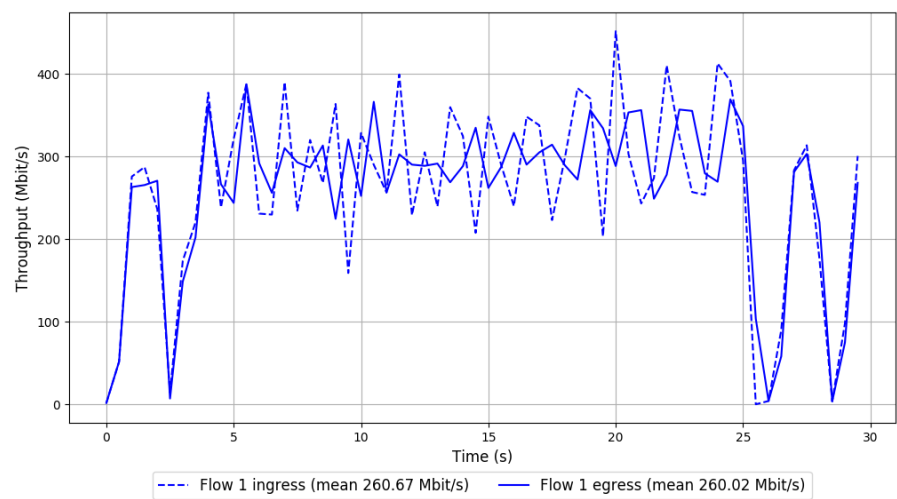
-- Flow 1:

Average throughput: 260.02 Mbit/s

95th percentile per-packet one-way delay: 176.129 ms

Loss rate: 0.59%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-13 05:05:33

End at: 2018-02-13 05:06:03

Below is generated by plot.py at 2018-02-13 08:36:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.07 Mbit/s

95th percentile per-packet one-way delay: 94.507 ms

Loss rate: 0.90%

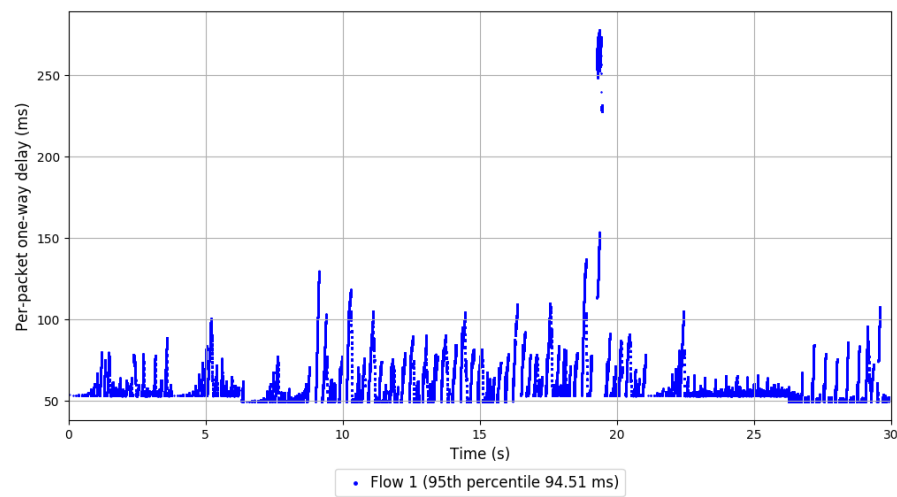
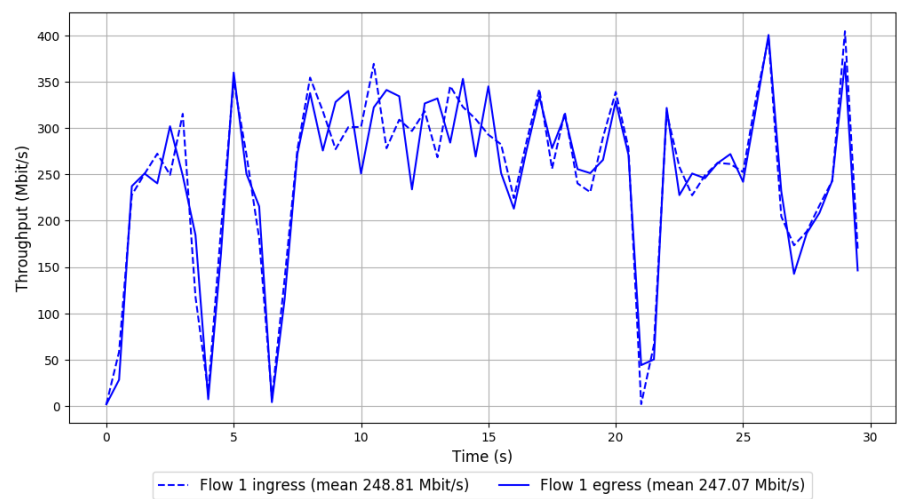
-- Flow 1:

Average throughput: 247.07 Mbit/s

95th percentile per-packet one-way delay: 94.507 ms

Loss rate: 0.90%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

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

End at: 2018-02-13 05:20:32

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.02 Mbit/s

95th percentile per-packet one-way delay: 178.740 ms

Loss rate: 0.94%

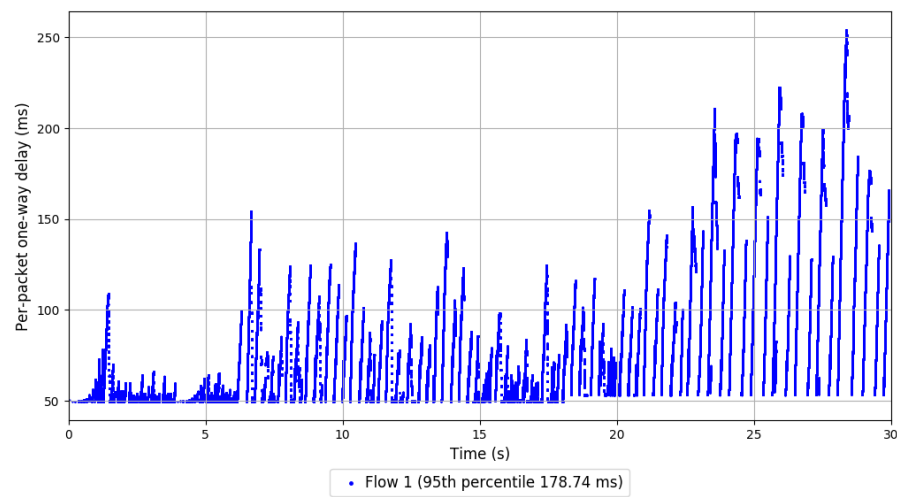
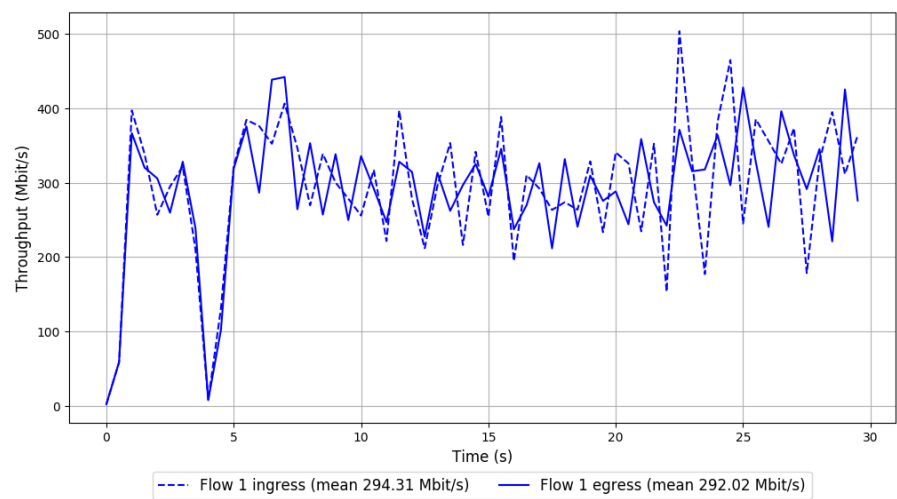
-- Flow 1:

Average throughput: 292.02 Mbit/s

95th percentile per-packet one-way delay: 178.740 ms

Loss rate: 0.94%

Run 10: Report of Verus — Data Link

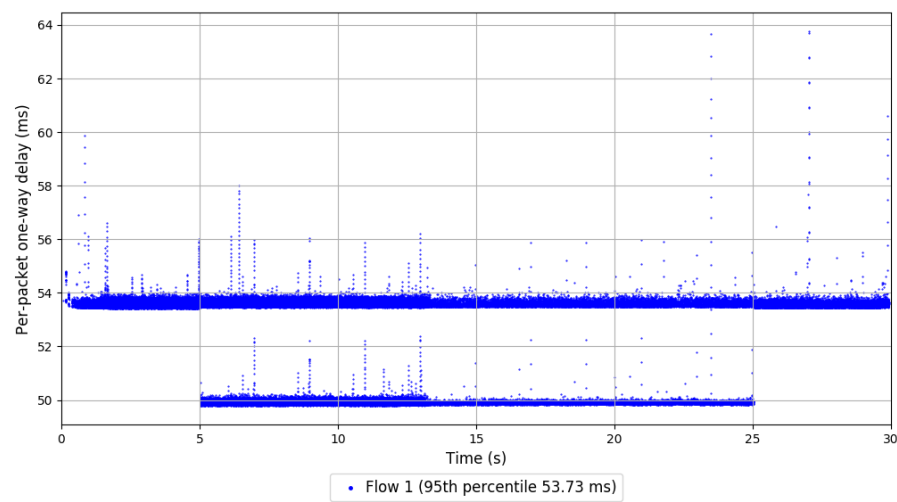
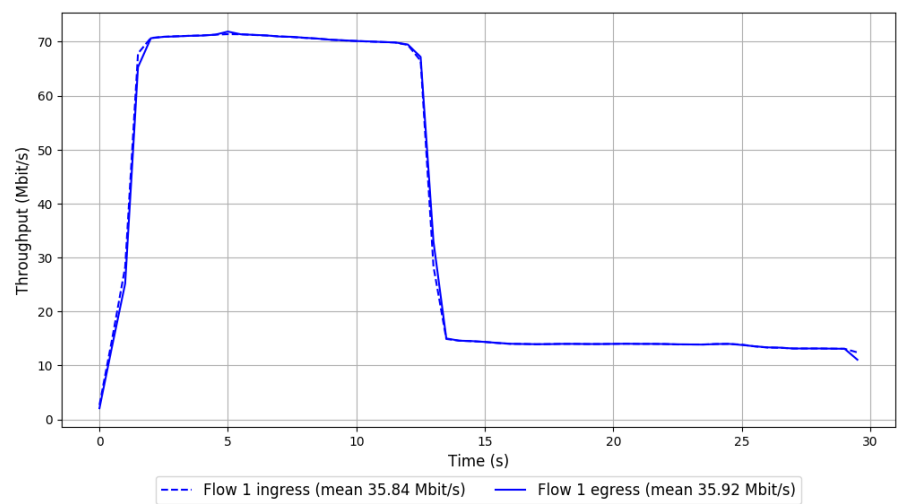


```
Run 1: Statistics of Copa

Start at: 2018-02-13 03:21:05
End at: 2018-02-13 03:21:35

# Below is generated by plot.py at 2018-02-13 08:37:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 35.92 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.13%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-13 03:35:23

End at: 2018-02-13 03:35:53

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.92 Mbit/s

95th percentile per-packet one-way delay: 53.753 ms

Loss rate: 0.09%

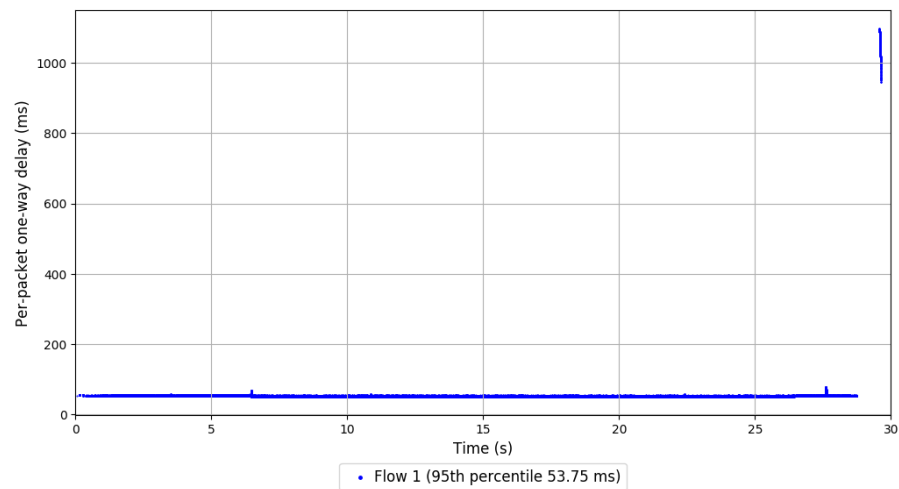
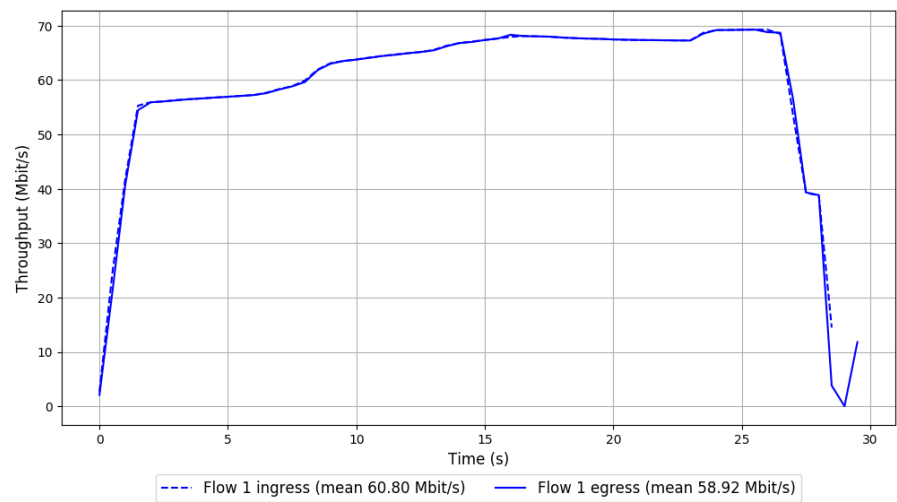
-- Flow 1:

Average throughput: 58.92 Mbit/s

95th percentile per-packet one-way delay: 53.753 ms

Loss rate: 0.09%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-13 03:49:50

End at: 2018-02-13 03:50:20

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.01 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.42%

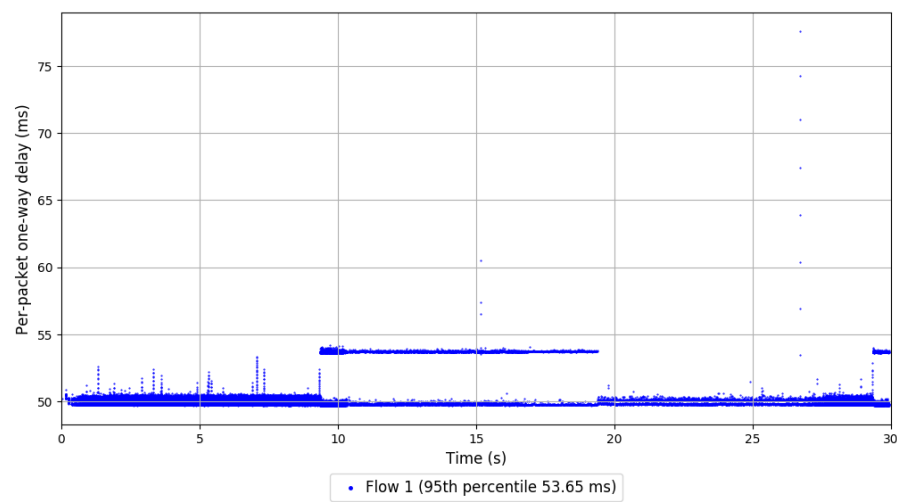
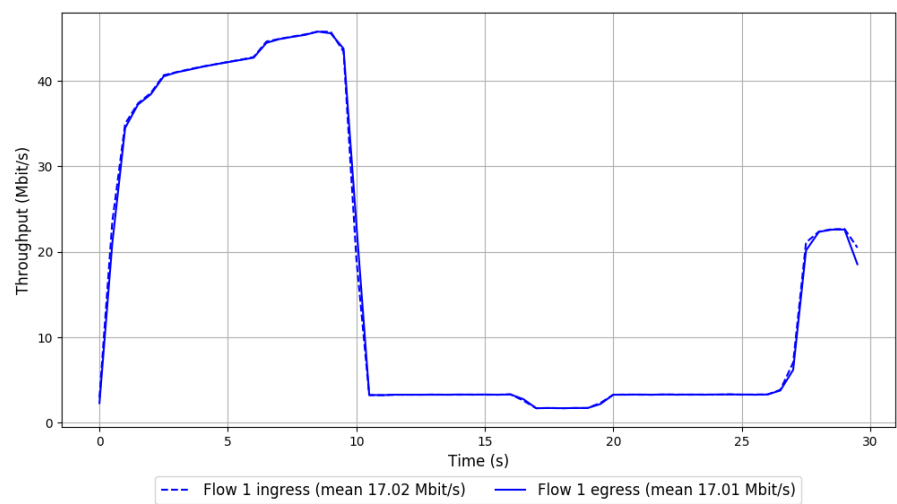
-- Flow 1:

Average throughput: 17.01 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.42%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

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

End at: 2018-02-13 04:04:32

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.32%

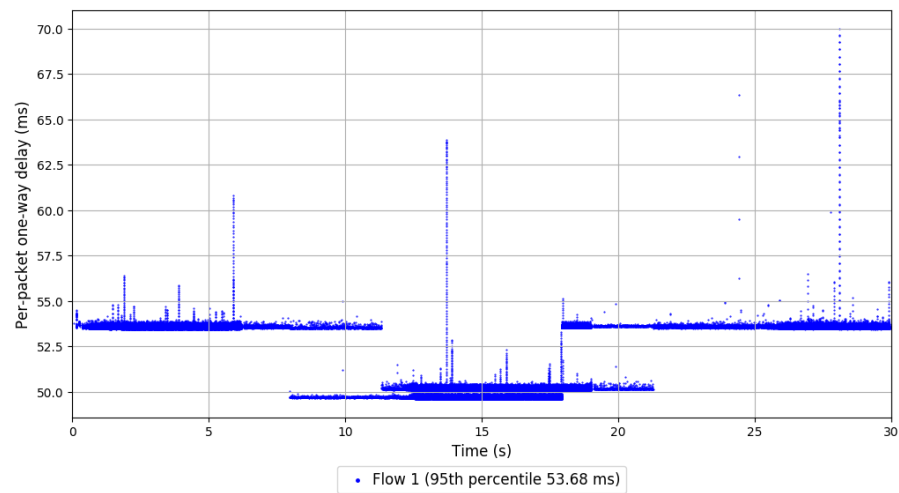
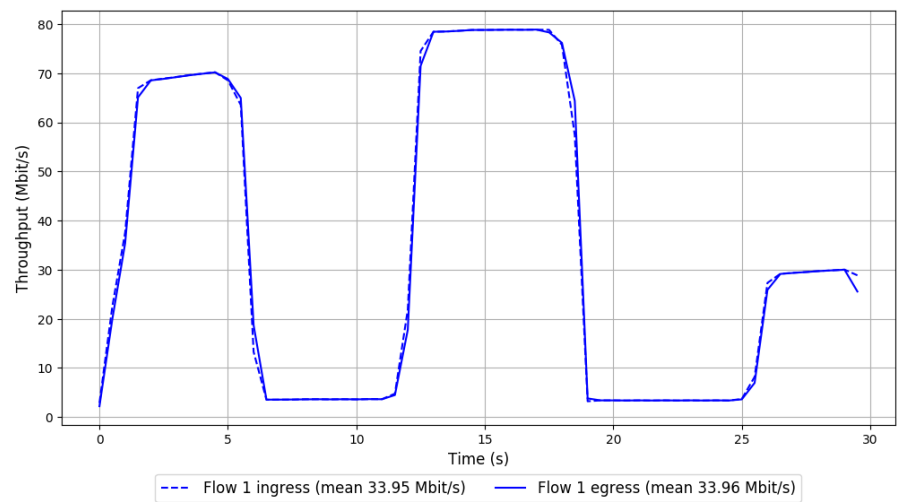
-- Flow 1:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 53.678 ms

Loss rate: 0.32%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-13 04:18:28

End at: 2018-02-13 04:18:58

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 53.463 ms

Loss rate: 0.10%

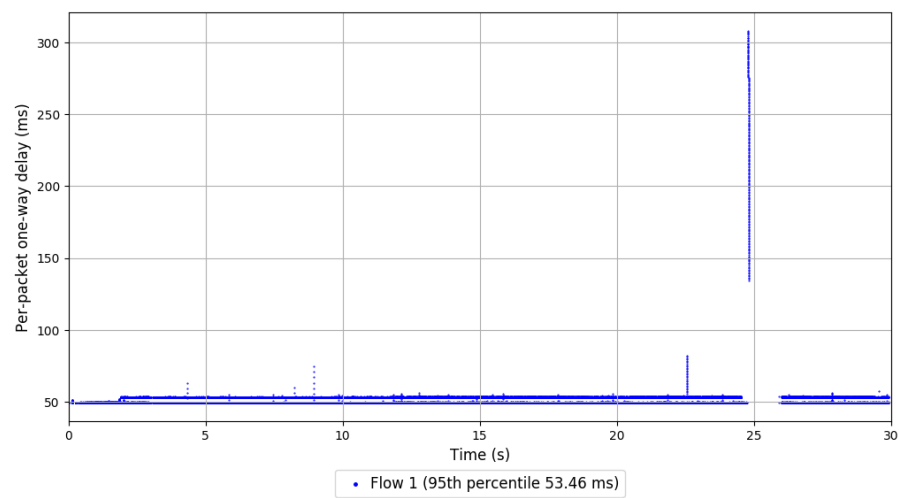
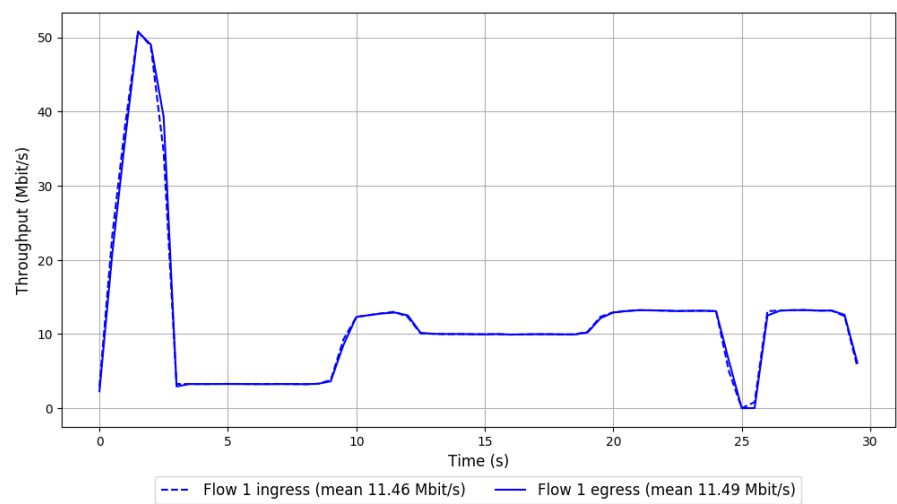
-- Flow 1:

Average throughput: 11.49 Mbit/s

95th percentile per-packet one-way delay: 53.463 ms

Loss rate: 0.10%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-13 04:33:03

End at: 2018-02-13 04:33:33

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 53.226 ms

Loss rate: 0.49%

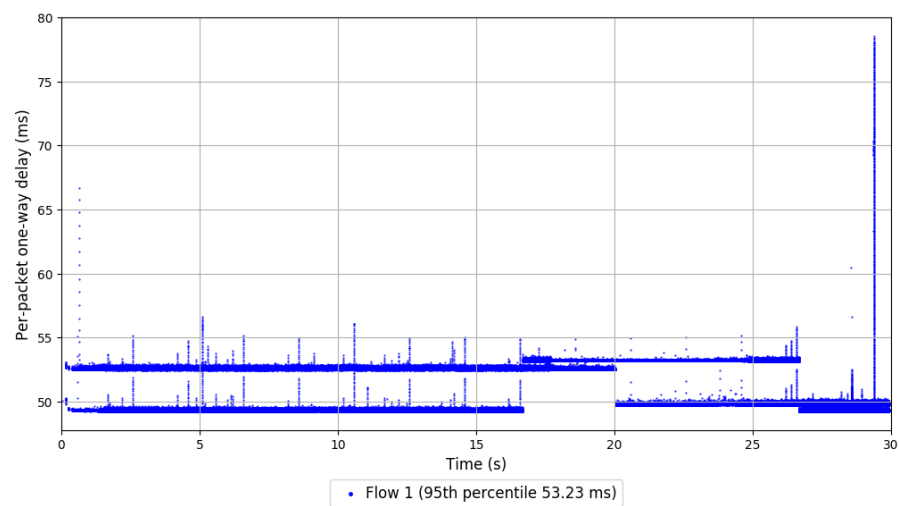
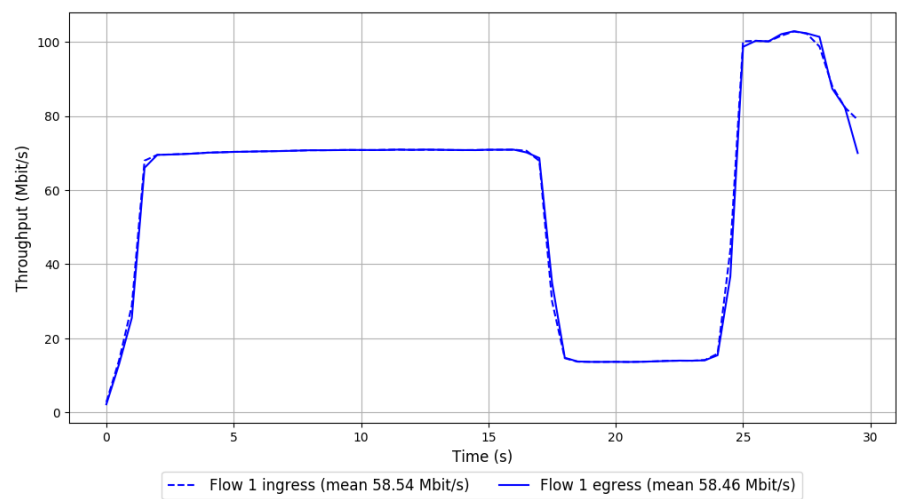
-- Flow 1:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 53.226 ms

Loss rate: 0.49%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-13 04:47:30

End at: 2018-02-13 04:48:00

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.73 Mbit/s

95th percentile per-packet one-way delay: 53.076 ms

Loss rate: 0.05%

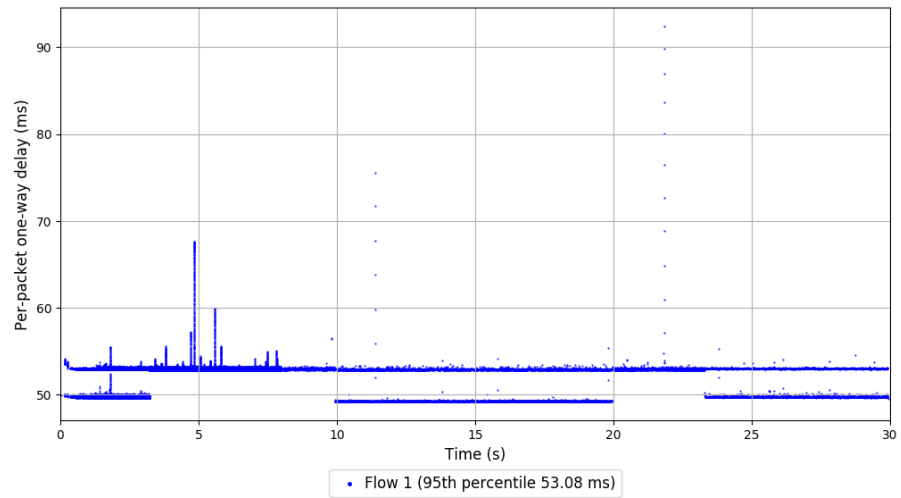
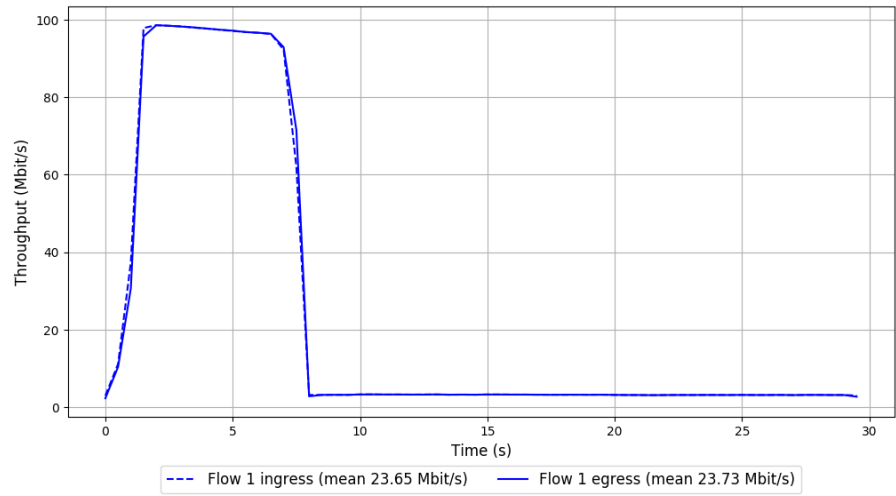
-- Flow 1:

Average throughput: 23.73 Mbit/s

95th percentile per-packet one-way delay: 53.076 ms

Loss rate: 0.05%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-13 05:01:53

End at: 2018-02-13 05:02:23

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.49 Mbit/s

95th percentile per-packet one-way delay: 53.056 ms

Loss rate: 0.63%

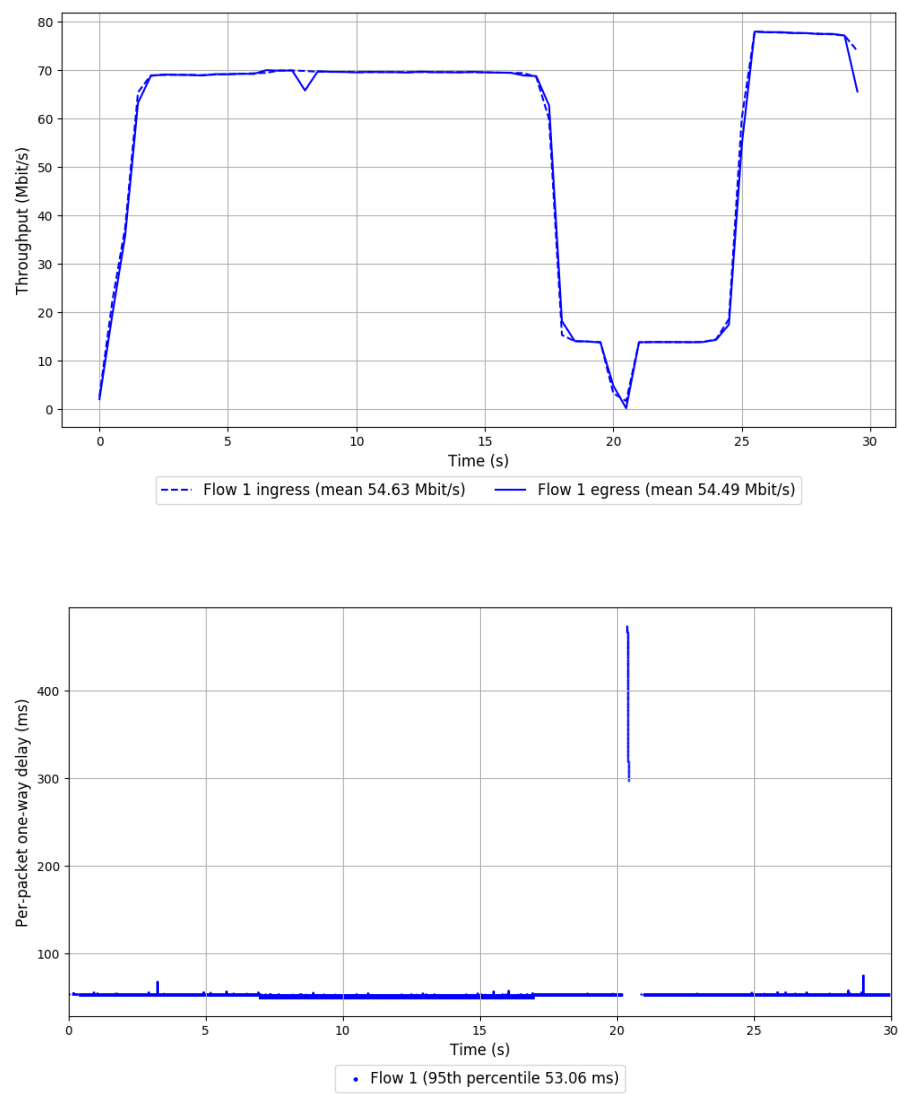
-- Flow 1:

Average throughput: 54.49 Mbit/s

95th percentile per-packet one-way delay: 53.056 ms

Loss rate: 0.63%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-13 05:16:14

End at: 2018-02-13 05:16:44

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 52.882 ms

Loss rate: 0.37%

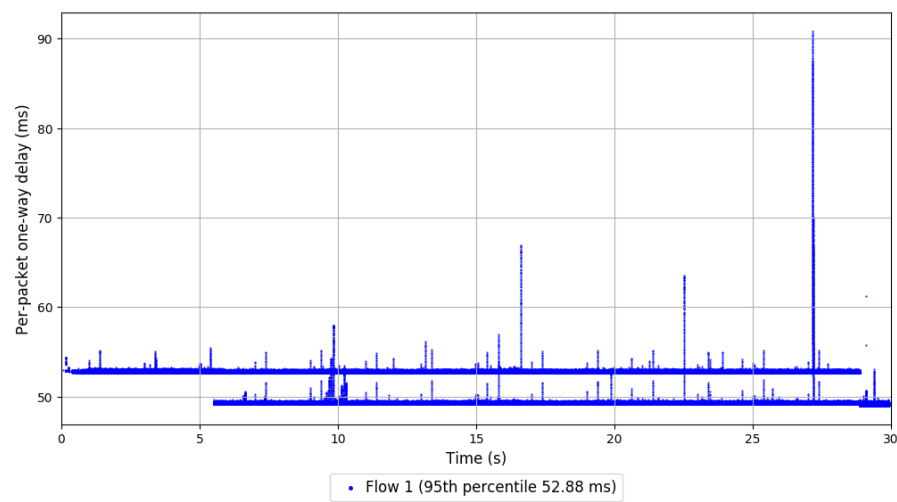
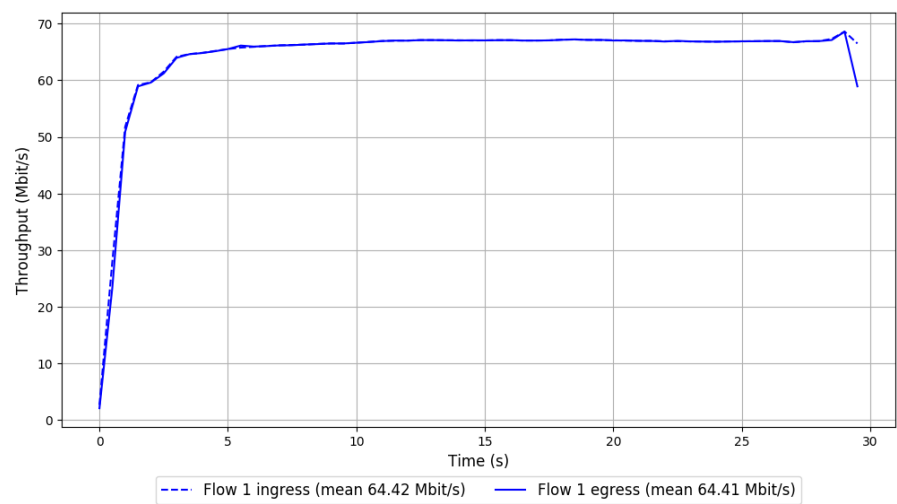
-- Flow 1:

Average throughput: 64.41 Mbit/s

95th percentile per-packet one-way delay: 52.882 ms

Loss rate: 0.37%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-13 05:30:49

End at: 2018-02-13 05:31:19

Below is generated by plot.py at 2018-02-13 08:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 53.626 ms

Loss rate: 1.09%

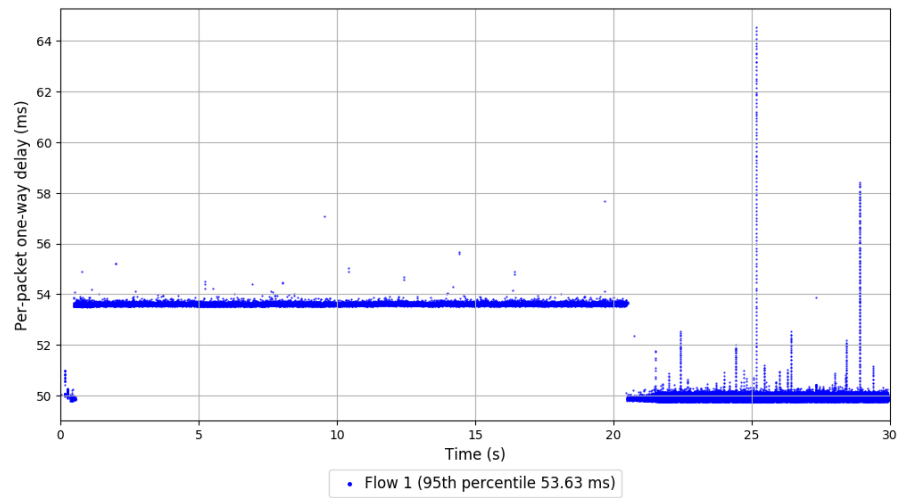
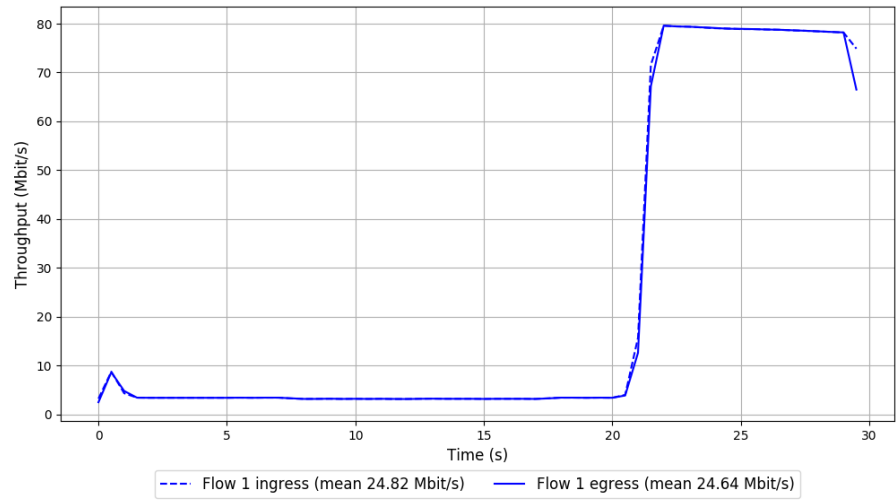
-- Flow 1:

Average throughput: 24.64 Mbit/s

95th percentile per-packet one-way delay: 53.626 ms

Loss rate: 1.09%

Run 10: Report of Copa — Data Link

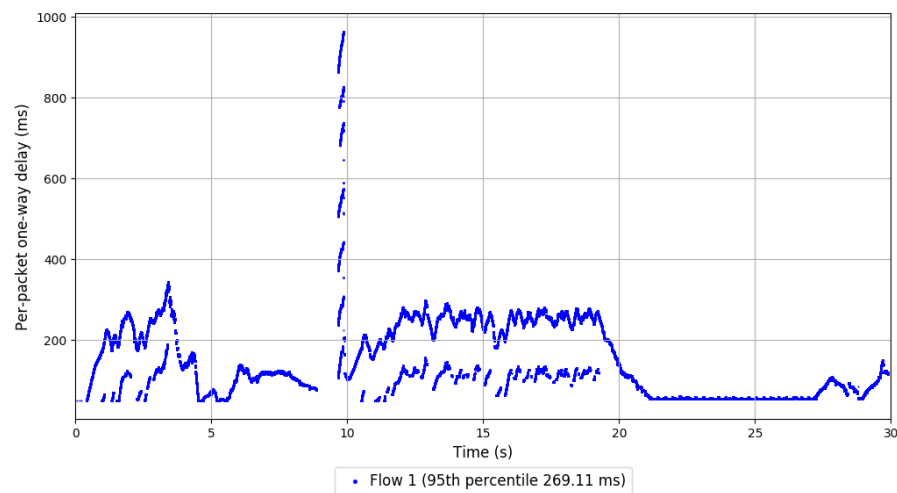
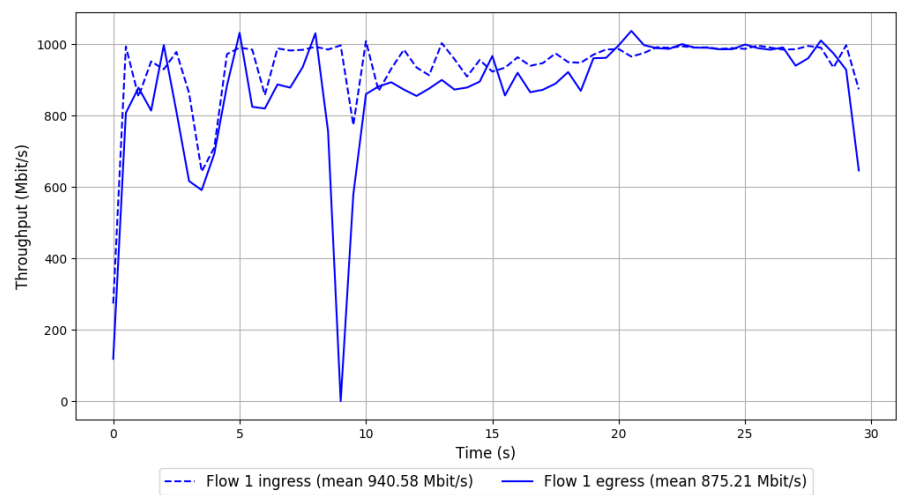


```
Run 1: Statistics of FillP

Start at: 2018-02-13 03:18:28
End at: 2018-02-13 03:18:58

# Below is generated by plot.py at 2018-02-13 08:52:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 875.21 Mbit/s
95th percentile per-packet one-way delay: 269.112 ms
Loss rate: 7.27%
-- Flow 1:
Average throughput: 875.21 Mbit/s
95th percentile per-packet one-way delay: 269.112 ms
Loss rate: 7.27%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-13 03:32:48

End at: 2018-02-13 03:33:18

Below is generated by plot.py at 2018-02-13 08:53:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 938.39 Mbit/s

95th percentile per-packet one-way delay: 128.085 ms

Loss rate: 3.41%

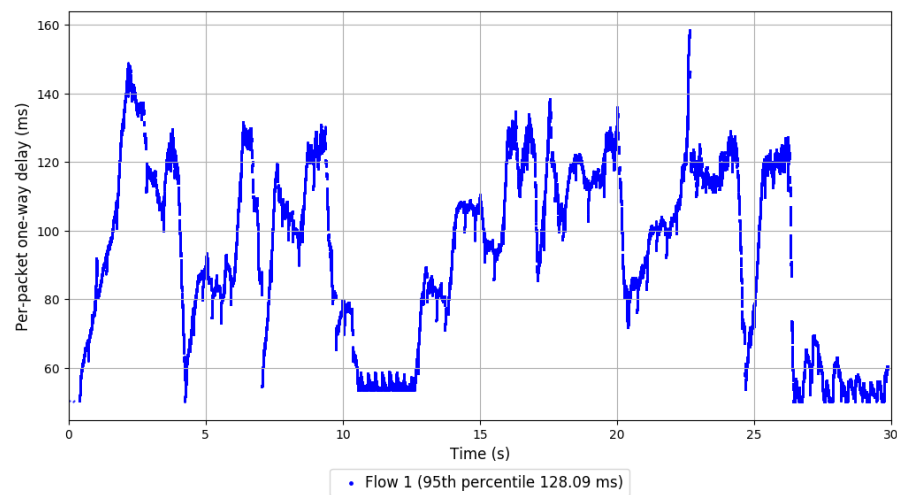
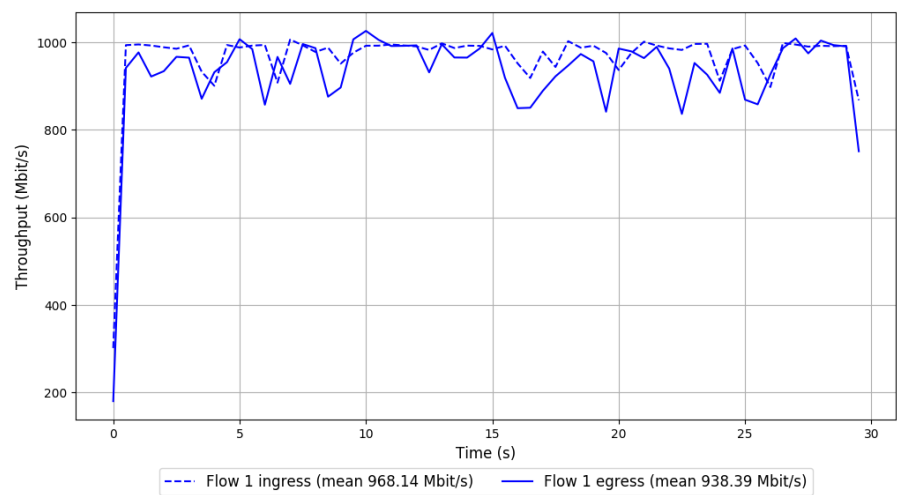
-- Flow 1:

Average throughput: 938.39 Mbit/s

95th percentile per-packet one-way delay: 128.085 ms

Loss rate: 3.41%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-13 03:47:13

End at: 2018-02-13 03:47:44

Below is generated by plot.py at 2018-02-13 08:53:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 892.52 Mbit/s

95th percentile per-packet one-way delay: 251.319 ms

Loss rate: 6.31%

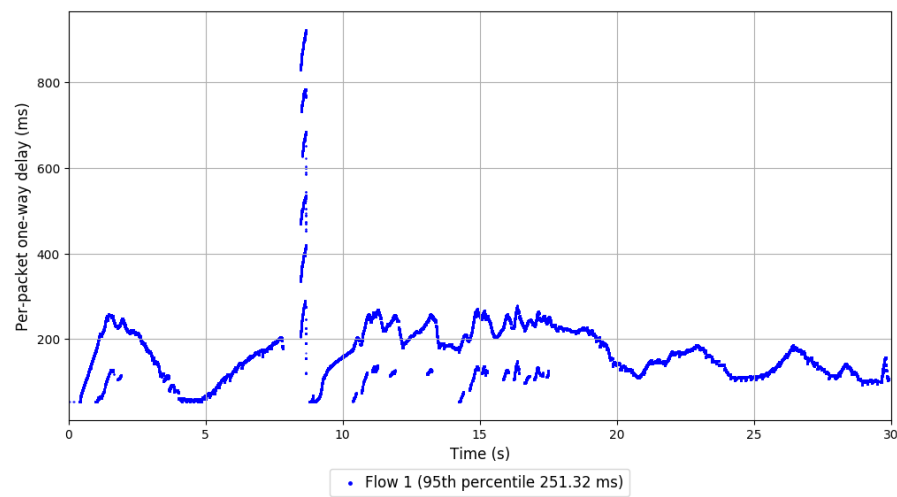
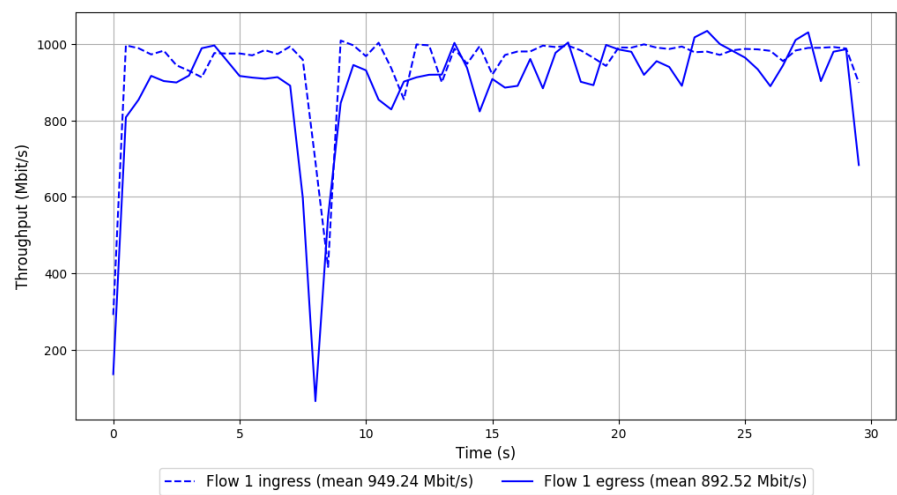
-- Flow 1:

Average throughput: 892.52 Mbit/s

95th percentile per-packet one-way delay: 251.319 ms

Loss rate: 6.31%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-13 04:01:26

End at: 2018-02-13 04:01:56

Below is generated by plot.py at 2018-02-13 08:53:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 896.65 Mbit/s

95th percentile per-packet one-way delay: 205.412 ms

Loss rate: 6.58%

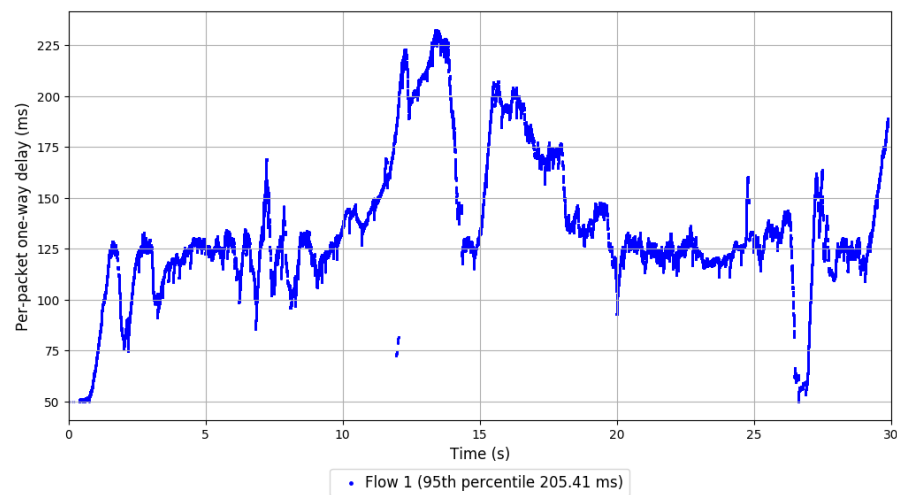
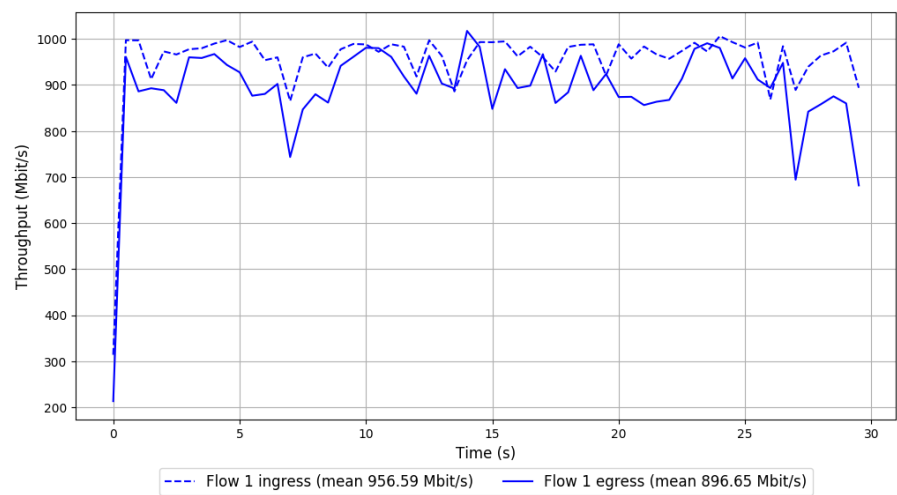
-- Flow 1:

Average throughput: 896.65 Mbit/s

95th percentile per-packet one-way delay: 205.412 ms

Loss rate: 6.58%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-13 04:15:51

End at: 2018-02-13 04:16:21

Below is generated by plot.py at 2018-02-13 08:53:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.13 Mbit/s

95th percentile per-packet one-way delay: 123.576 ms

Loss rate: 3.27%

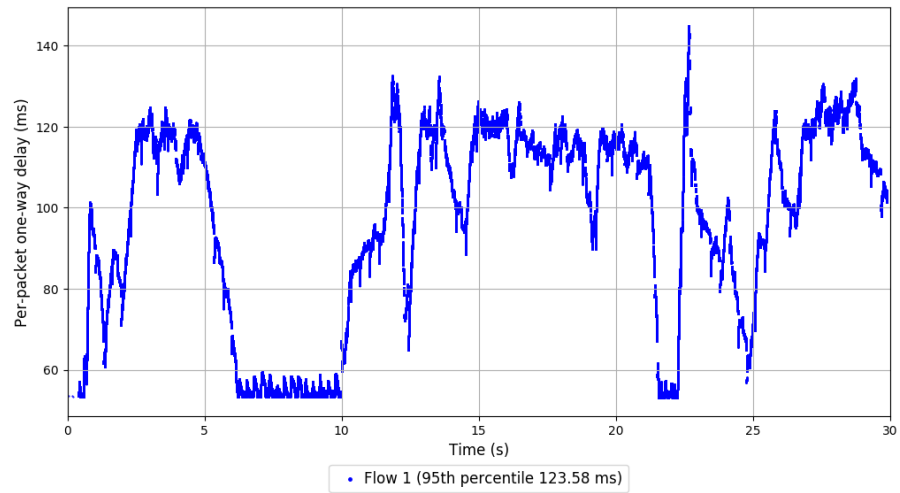
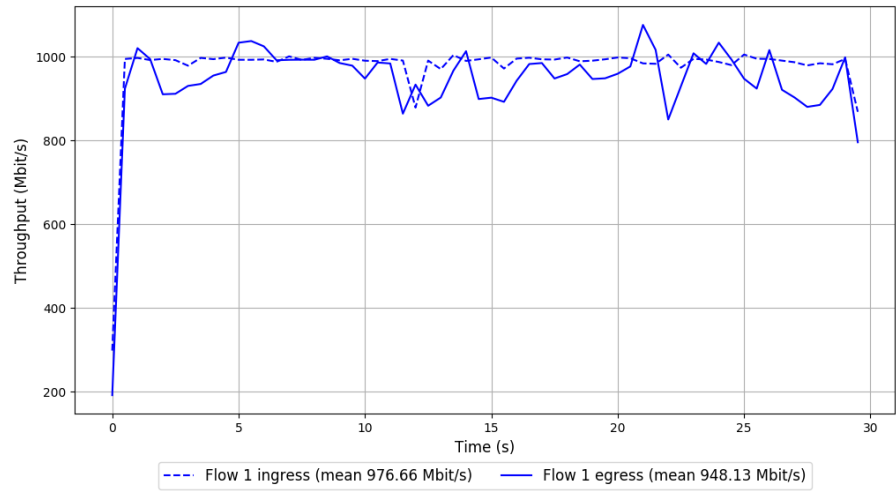
-- Flow 1:

Average throughput: 948.13 Mbit/s

95th percentile per-packet one-way delay: 123.576 ms

Loss rate: 3.27%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-13 04:30:28

End at: 2018-02-13 04:30:58

Below is generated by plot.py at 2018-02-13 08:53:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 917.03 Mbit/s

95th percentile per-packet one-way delay: 125.604 ms

Loss rate: 5.22%

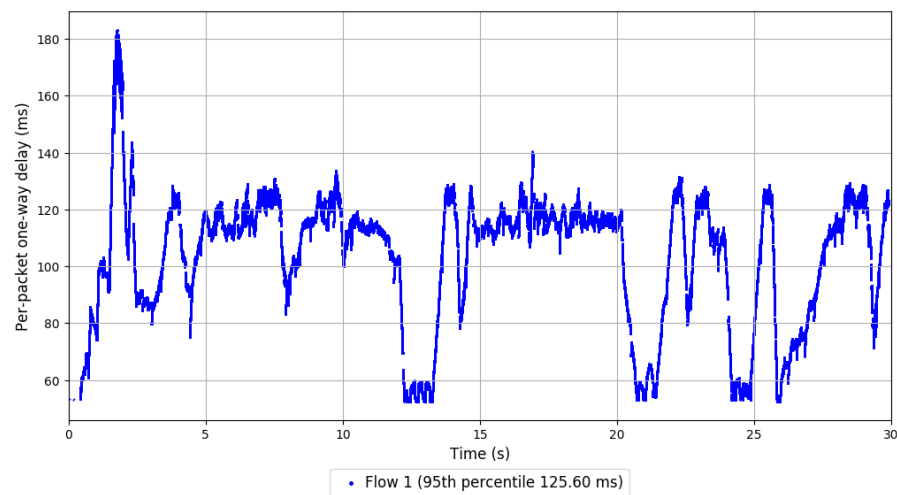
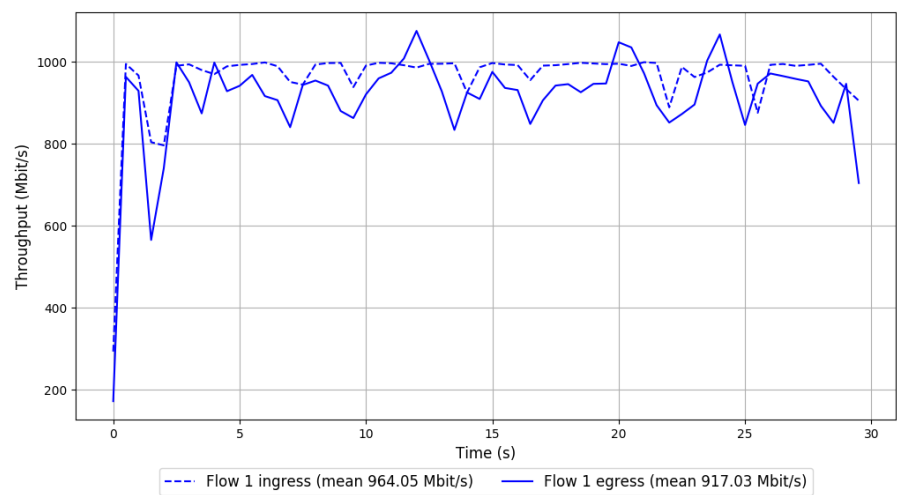
-- Flow 1:

Average throughput: 917.03 Mbit/s

95th percentile per-packet one-way delay: 125.604 ms

Loss rate: 5.22%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-13 04:44:55

End at: 2018-02-13 04:45:25

Below is generated by plot.py at 2018-02-13 08:53:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 868.86 Mbit/s

95th percentile per-packet one-way delay: 254.646 ms

Loss rate: 8.24%

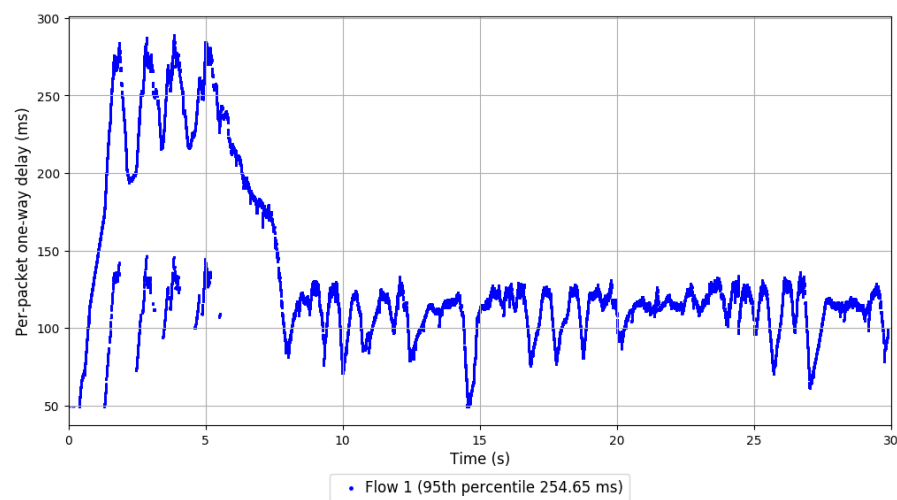
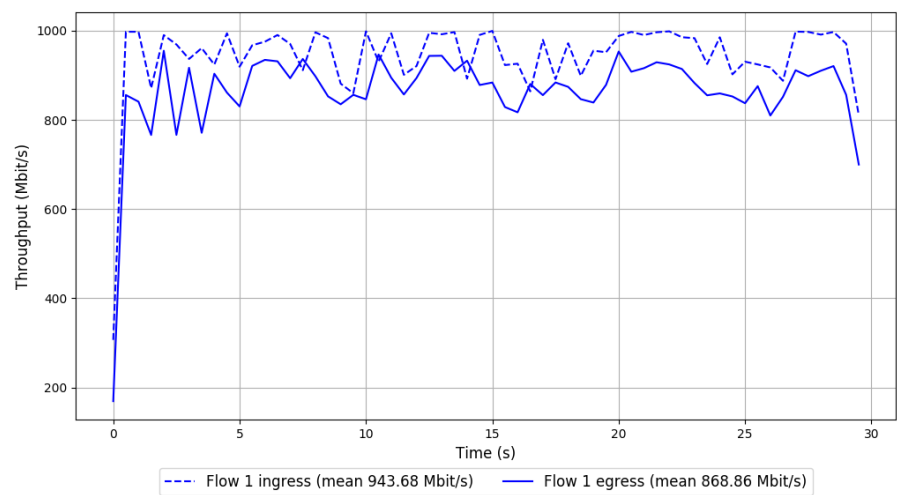
-- Flow 1:

Average throughput: 868.86 Mbit/s

95th percentile per-packet one-way delay: 254.646 ms

Loss rate: 8.24%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-13 04:59:17

End at: 2018-02-13 04:59:47

Below is generated by plot.py at 2018-02-13 08:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 910.60 Mbit/s

95th percentile per-packet one-way delay: 254.267 ms

Loss rate: 4.68%

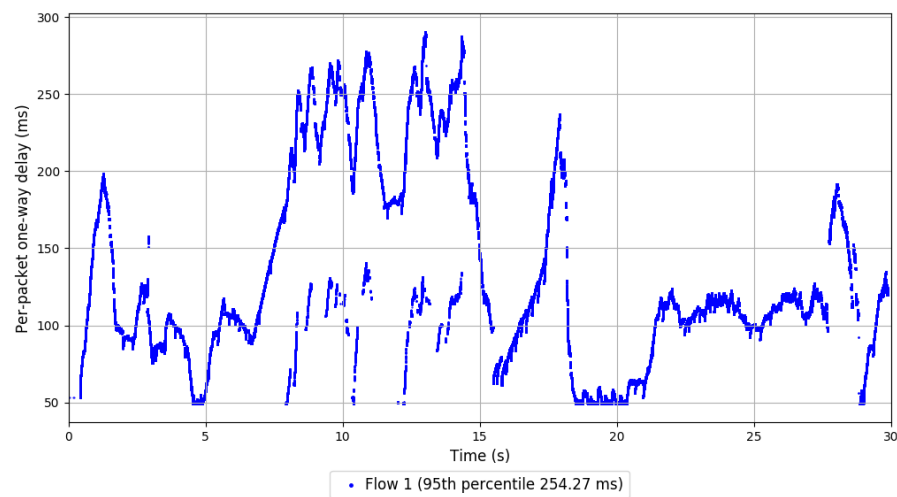
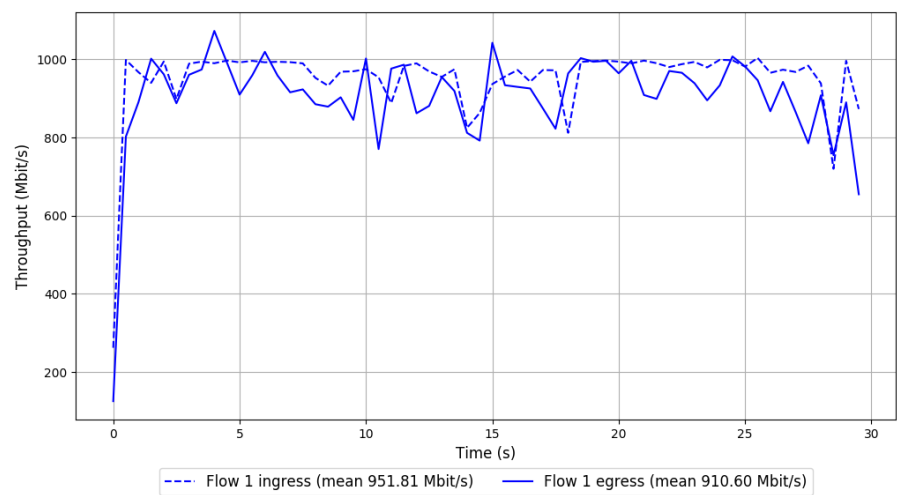
-- Flow 1:

Average throughput: 910.60 Mbit/s

95th percentile per-packet one-way delay: 254.267 ms

Loss rate: 4.68%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-13 05:13:38

End at: 2018-02-13 05:14:08

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 919.23 Mbit/s

95th percentile per-packet one-way delay: 125.505 ms

Loss rate: 4.94%

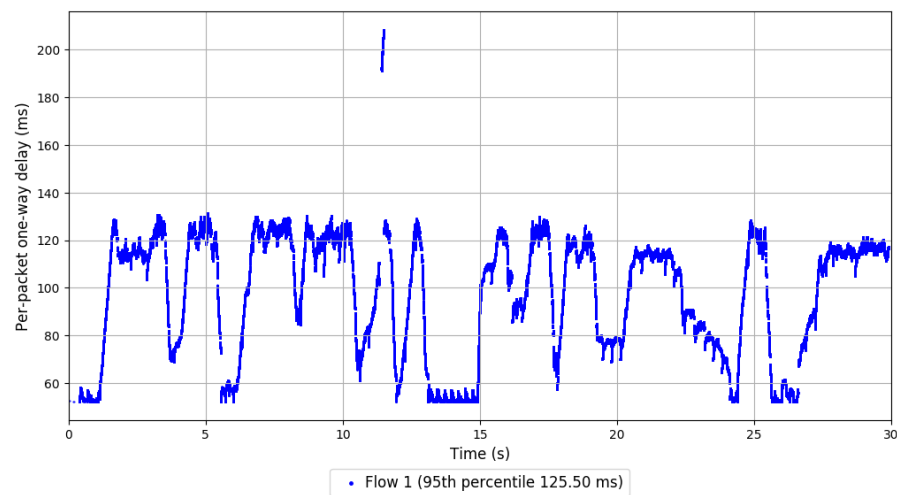
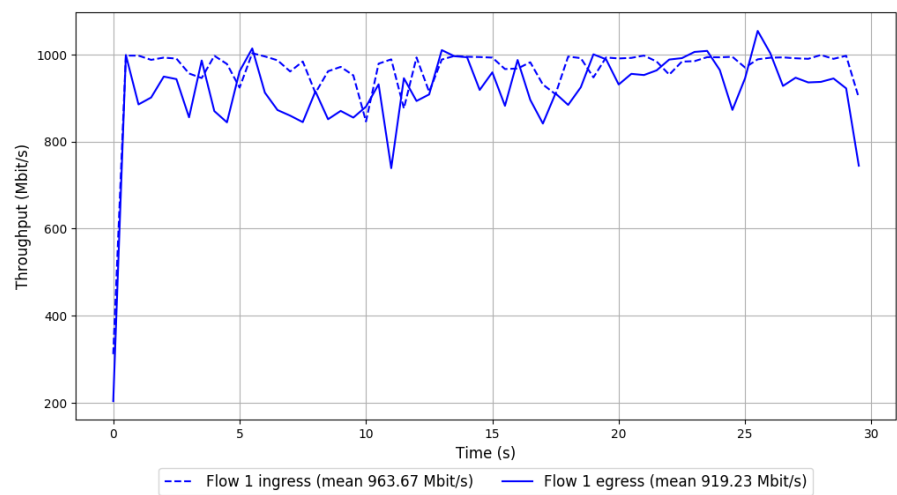
-- Flow 1:

Average throughput: 919.23 Mbit/s

95th percentile per-packet one-way delay: 125.505 ms

Loss rate: 4.94%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-13 05:28:15

End at: 2018-02-13 05:28:46

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 851.93 Mbit/s

95th percentile per-packet one-way delay: 178.400 ms

Loss rate: 8.19%

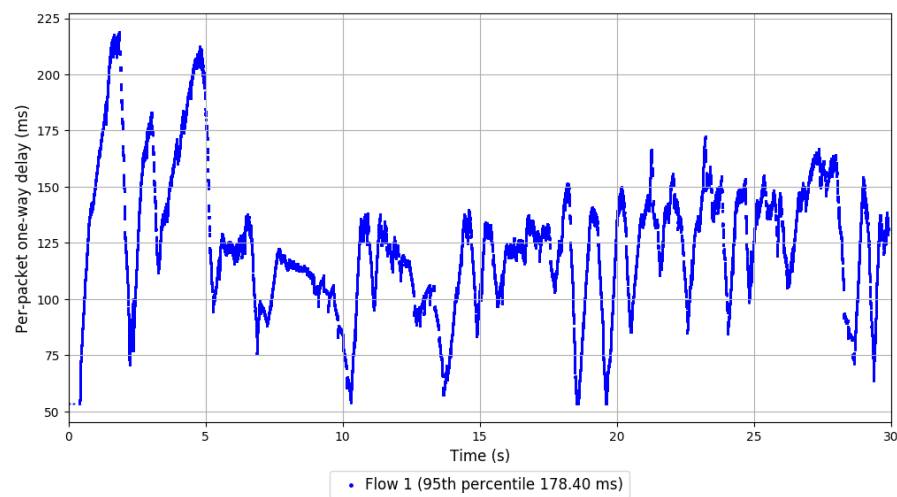
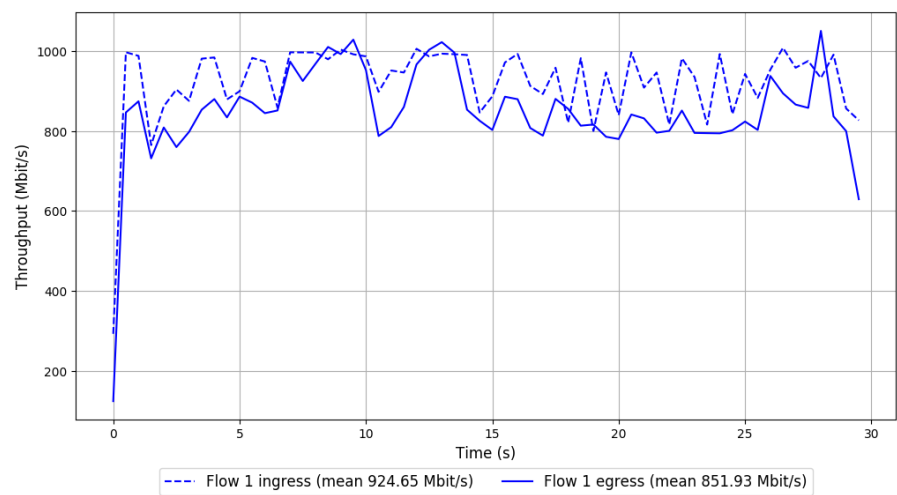
-- Flow 1:

Average throughput: 851.93 Mbit/s

95th percentile per-packet one-way delay: 178.400 ms

Loss rate: 8.19%

Run 10: Report of FillP — Data Link

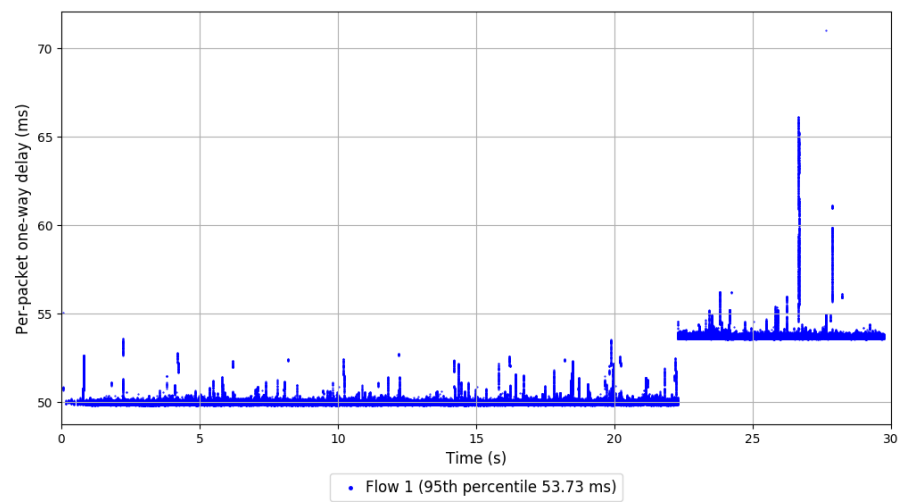
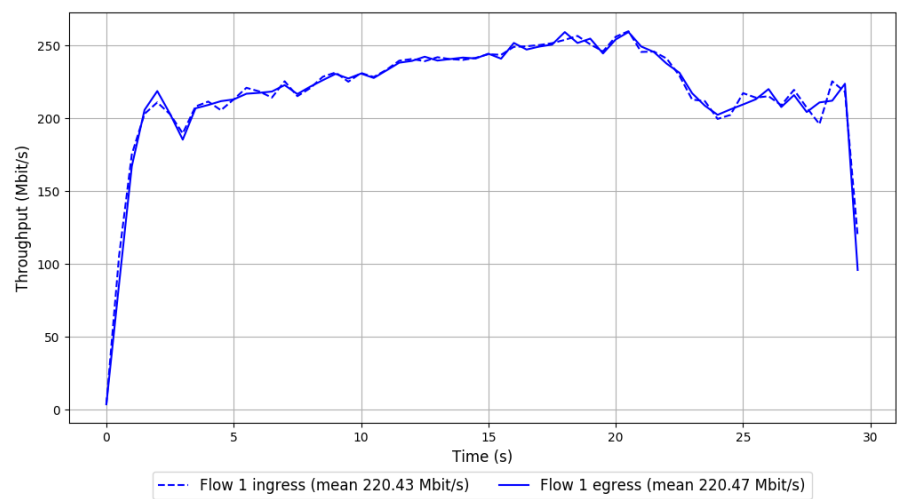


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 03:17:37
End at: 2018-02-13 03:18:07

# Below is generated by plot.py at 2018-02-13 09:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.47 Mbit/s
95th percentile per-packet one-way delay: 53.728 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 220.47 Mbit/s
95th percentile per-packet one-way delay: 53.728 ms
Loss rate: 0.34%
```

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

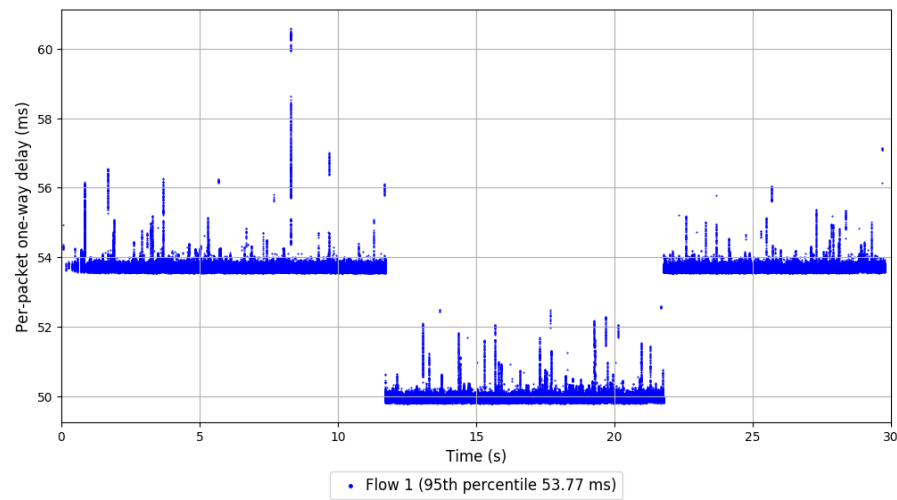
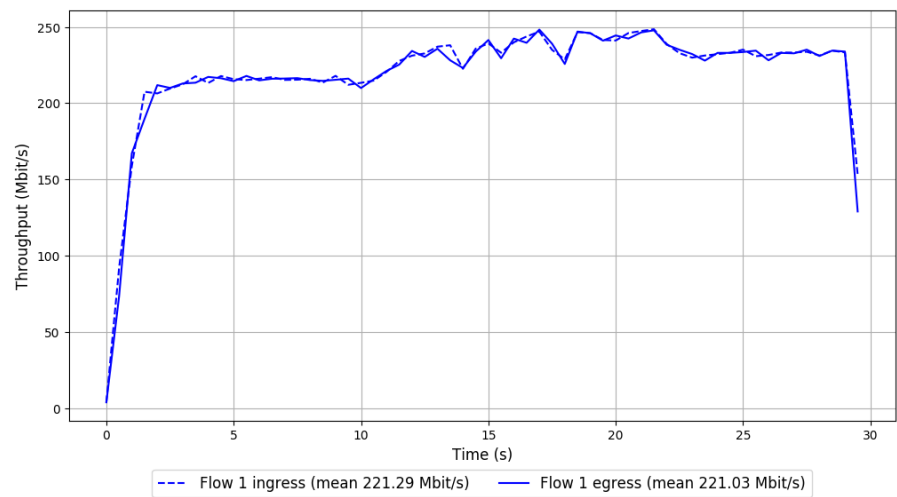


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 03:31:58
End at: 2018-02-13 03:32:28

# Below is generated by plot.py at 2018-02-13 09:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.03 Mbit/s
95th percentile per-packet one-way delay: 53.765 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 221.03 Mbit/s
95th percentile per-packet one-way delay: 53.765 ms
Loss rate: 0.47%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 03:46:24

End at: 2018-02-13 03:46:54

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.94 Mbit/s

95th percentile per-packet one-way delay: 53.742 ms

Loss rate: 0.55%

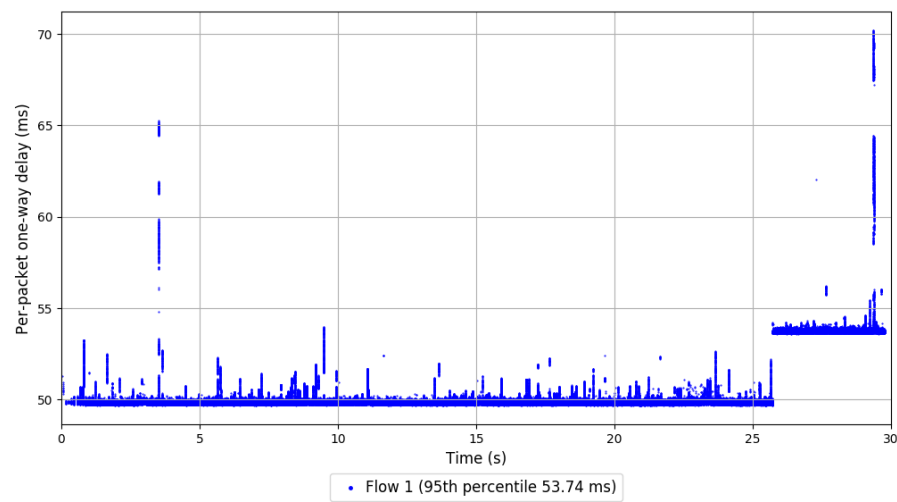
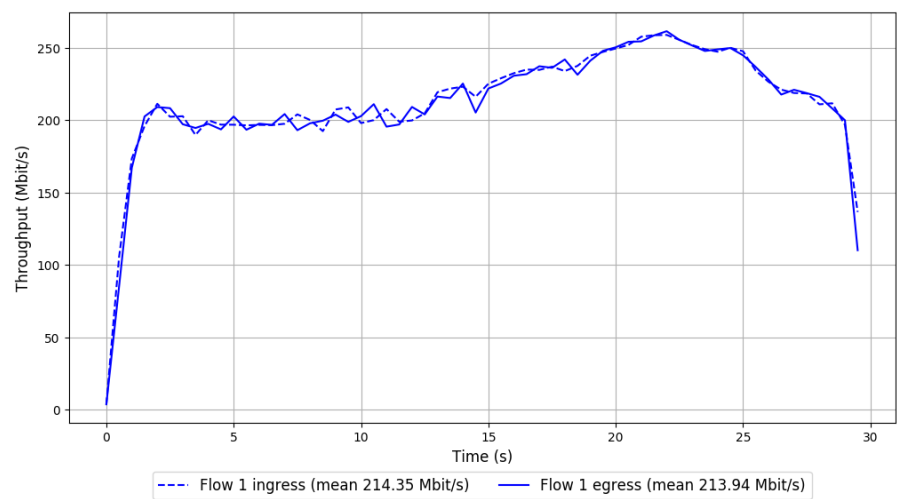
-- Flow 1:

Average throughput: 213.94 Mbit/s

95th percentile per-packet one-way delay: 53.742 ms

Loss rate: 0.55%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-13 04:00:37

End at: 2018-02-13 04:01:07

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.83 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.36%

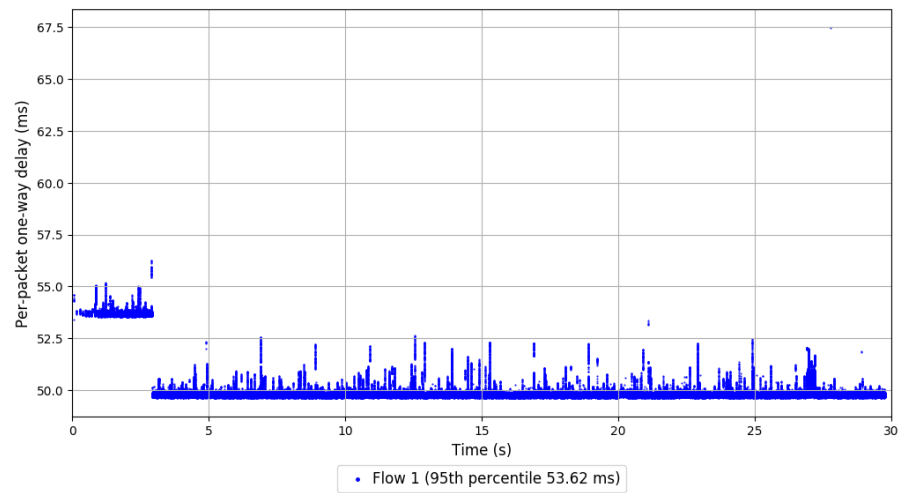
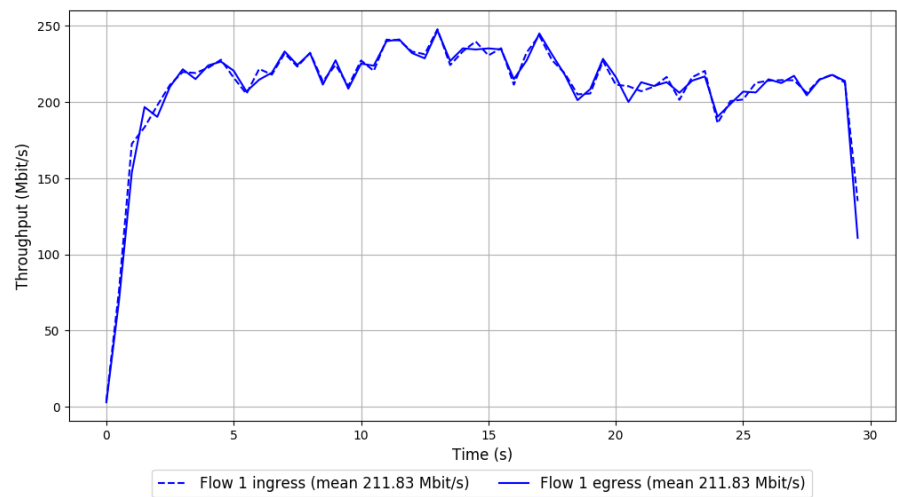
-- Flow 1:

Average throughput: 211.83 Mbit/s

95th percentile per-packet one-way delay: 53.621 ms

Loss rate: 0.36%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-13 04:15:01

End at: 2018-02-13 04:15:32

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.67 Mbit/s

95th percentile per-packet one-way delay: 53.616 ms

Loss rate: 0.48%

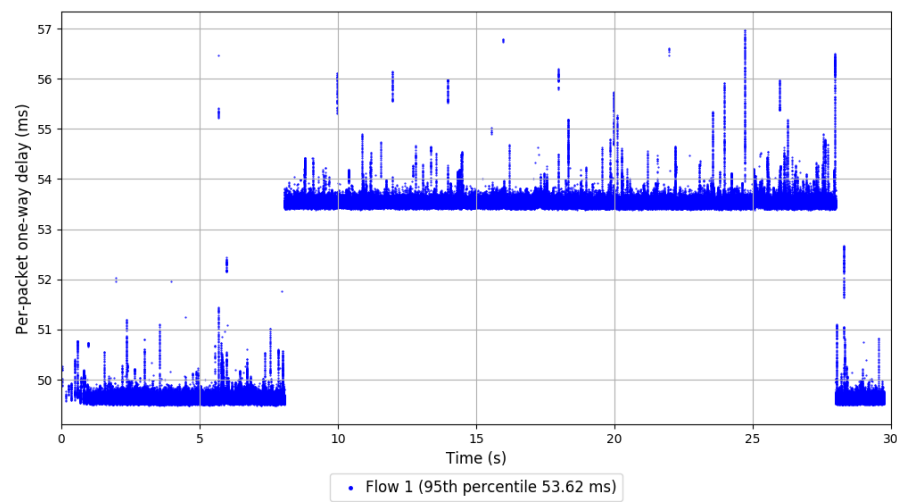
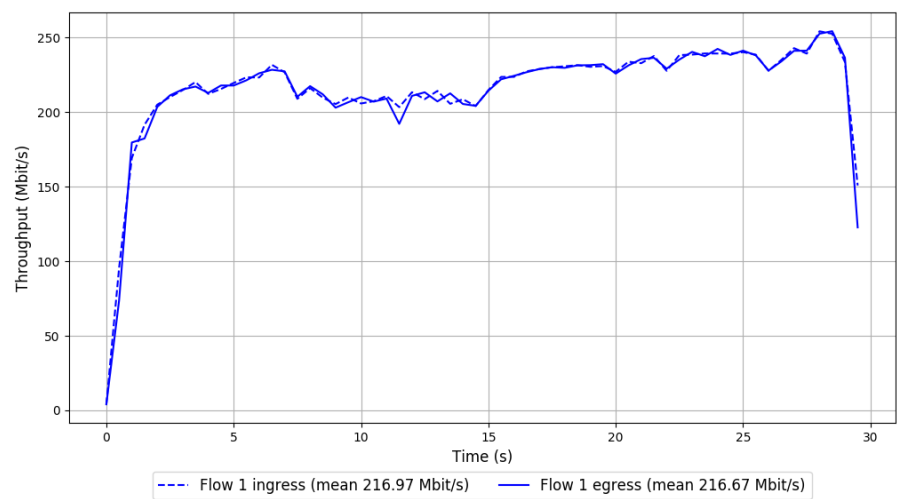
-- Flow 1:

Average throughput: 216.67 Mbit/s

95th percentile per-packet one-way delay: 53.616 ms

Loss rate: 0.48%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-13 04:29:38

End at: 2018-02-13 04:30:08

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.90 Mbit/s

95th percentile per-packet one-way delay: 53.412 ms

Loss rate: 0.45%

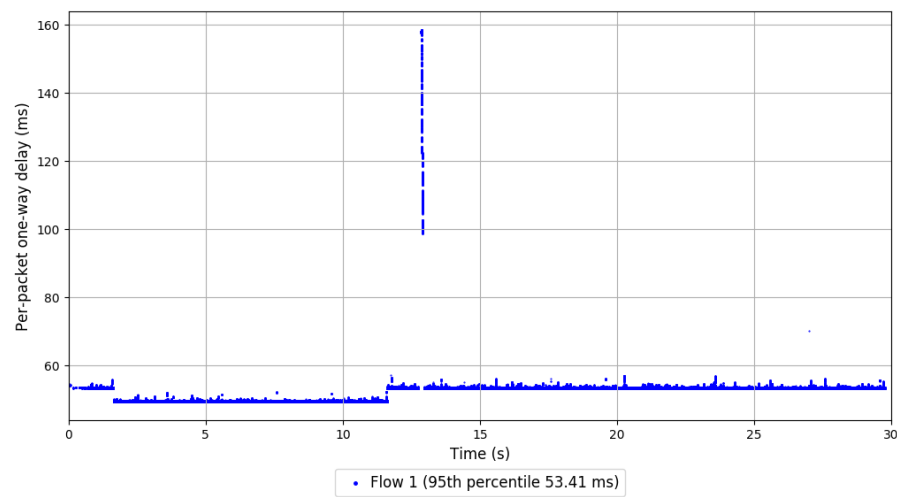
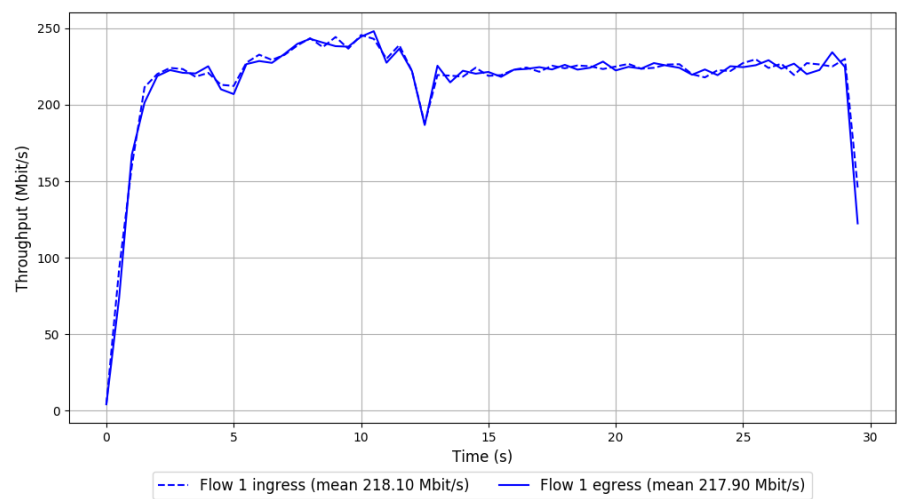
-- Flow 1:

Average throughput: 217.90 Mbit/s

95th percentile per-packet one-way delay: 53.412 ms

Loss rate: 0.45%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-13 04:44:05

End at: 2018-02-13 04:44:35

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.64 Mbit/s

95th percentile per-packet one-way delay: 53.331 ms

Loss rate: 0.34%

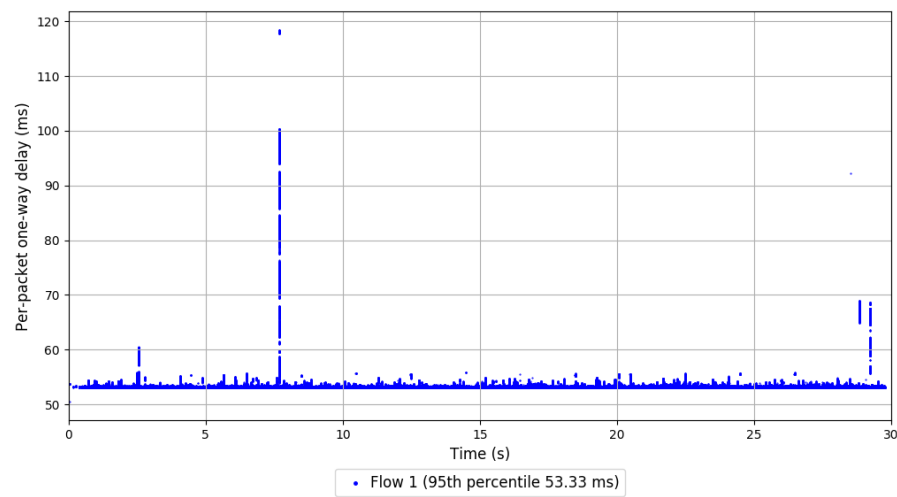
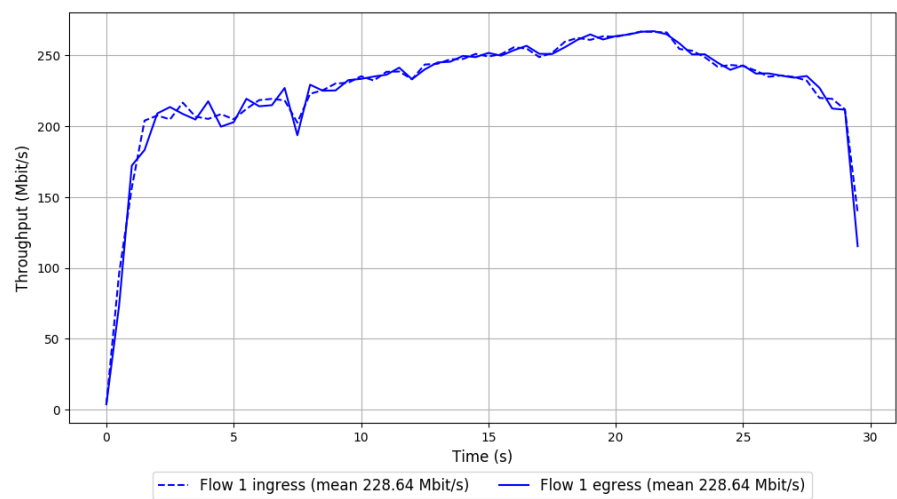
-- Flow 1:

Average throughput: 228.64 Mbit/s

95th percentile per-packet one-way delay: 53.331 ms

Loss rate: 0.34%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-13 04:58:27

End at: 2018-02-13 04:58:57

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.61 Mbit/s

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

Loss rate: 0.43%

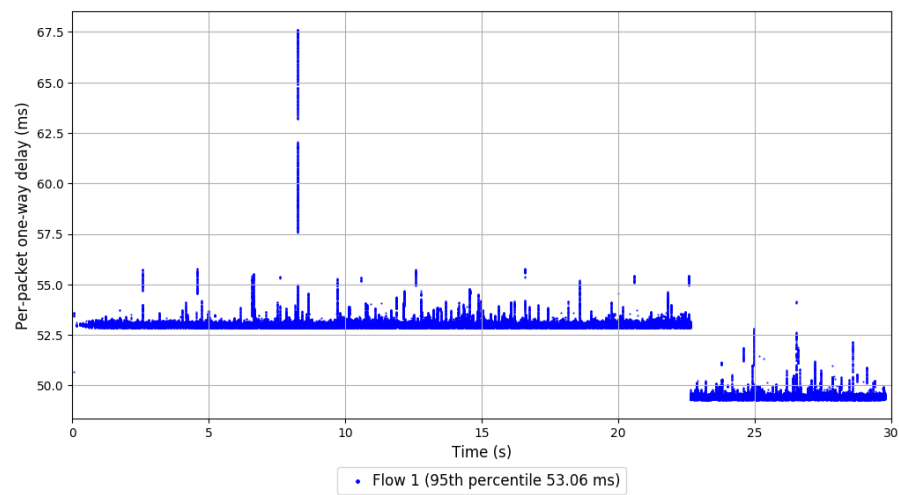
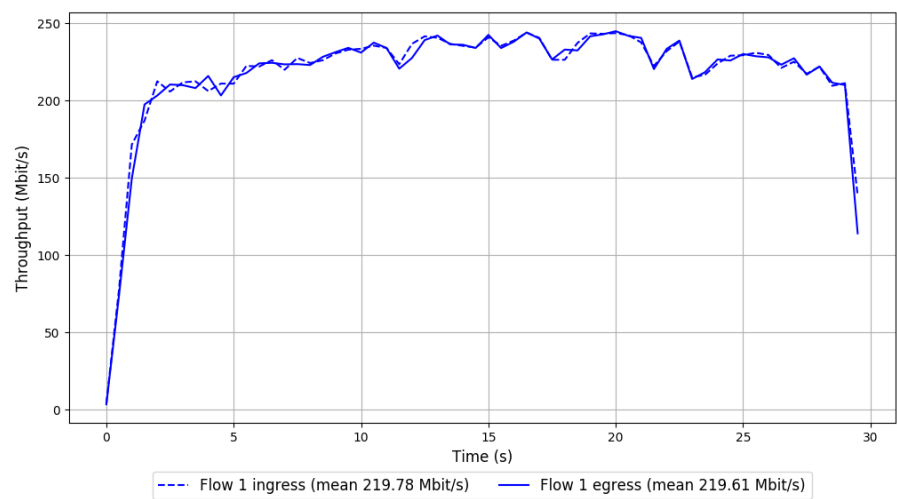
-- Flow 1:

Average throughput: 219.61 Mbit/s

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

Loss rate: 0.43%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-13 05:12:49

End at: 2018-02-13 05:13:19

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.96 Mbit/s

95th percentile per-packet one-way delay: 52.964 ms

Loss rate: 0.38%

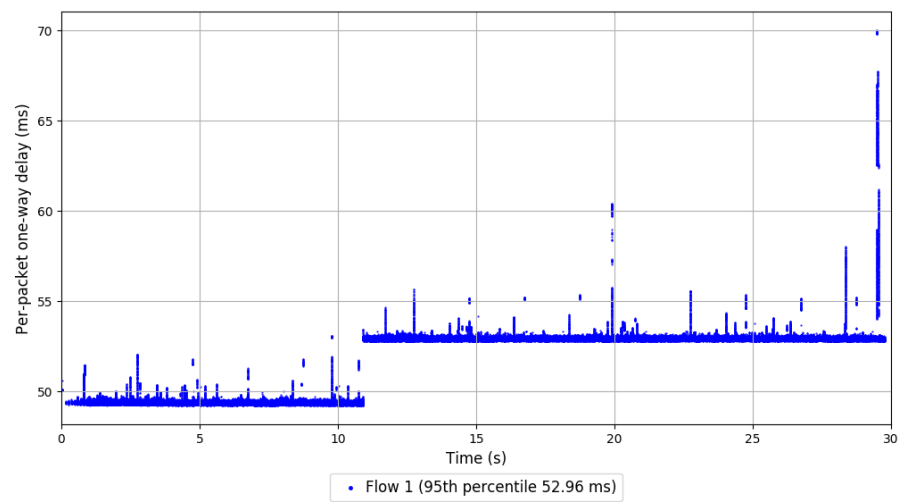
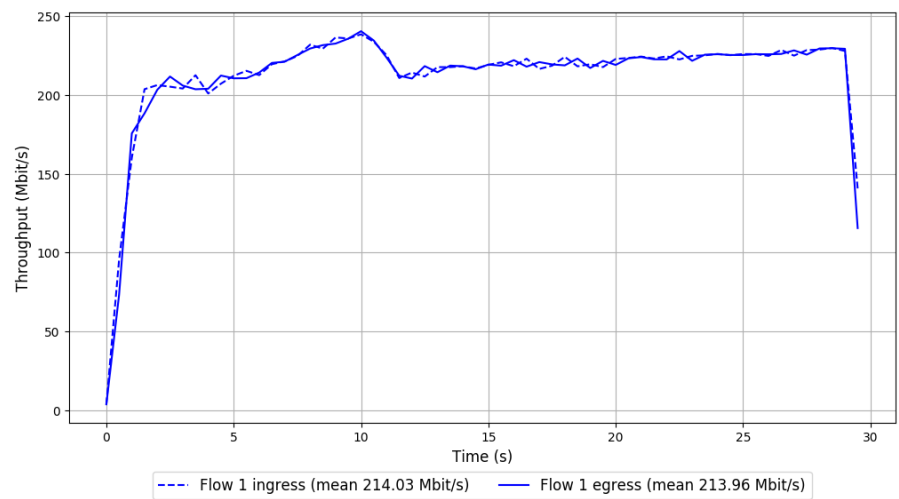
-- Flow 1:

Average throughput: 213.96 Mbit/s

95th percentile per-packet one-way delay: 52.964 ms

Loss rate: 0.38%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-13 05:27:25

End at: 2018-02-13 05:27:55

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.20 Mbit/s

95th percentile per-packet one-way delay: 49.885 ms

Loss rate: 0.39%

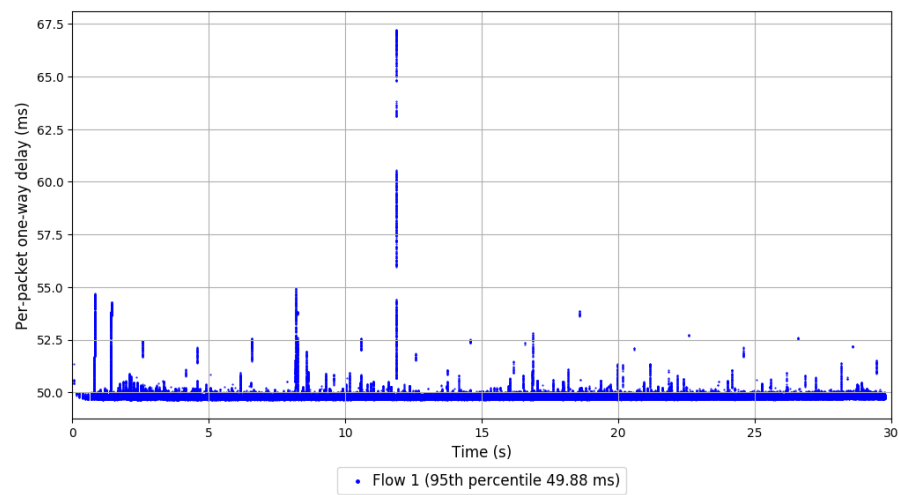
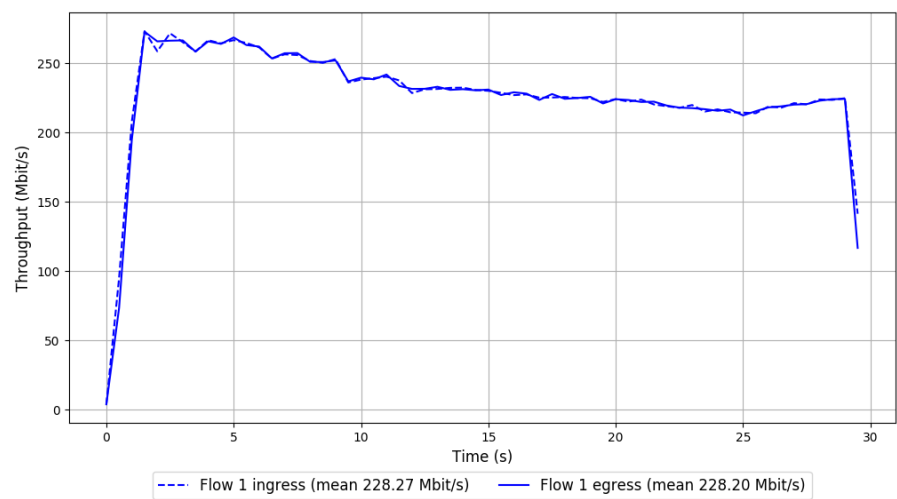
-- Flow 1:

Average throughput: 228.20 Mbit/s

95th percentile per-packet one-way delay: 49.885 ms

Loss rate: 0.39%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 03:16:40

End at: 2018-02-13 03:17:10

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.00 Mbit/s

95th percentile per-packet one-way delay: 67.888 ms

Loss rate: 0.65%

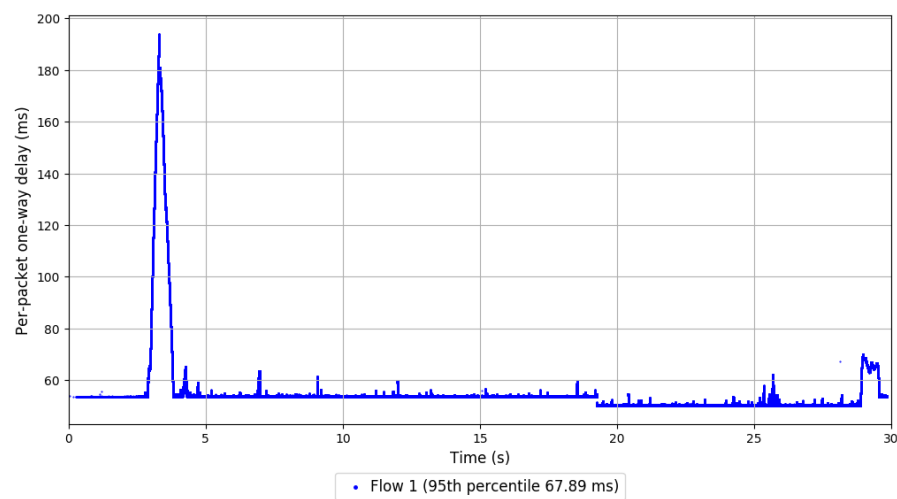
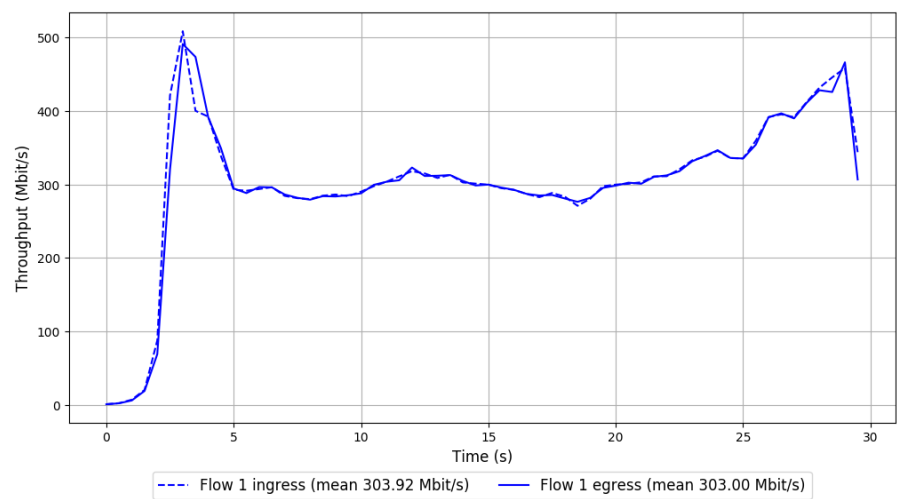
-- Flow 1:

Average throughput: 303.00 Mbit/s

95th percentile per-packet one-way delay: 67.888 ms

Loss rate: 0.65%

Run 1: Report of Vivace-latency — Data Link

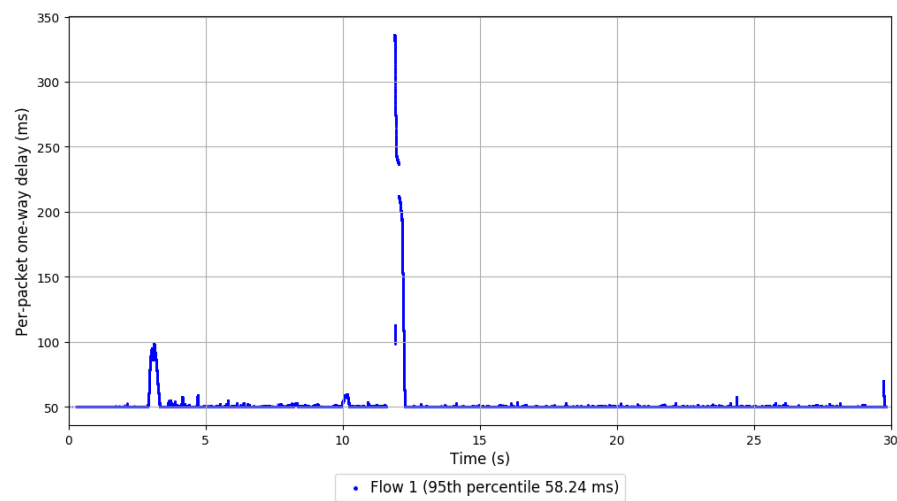
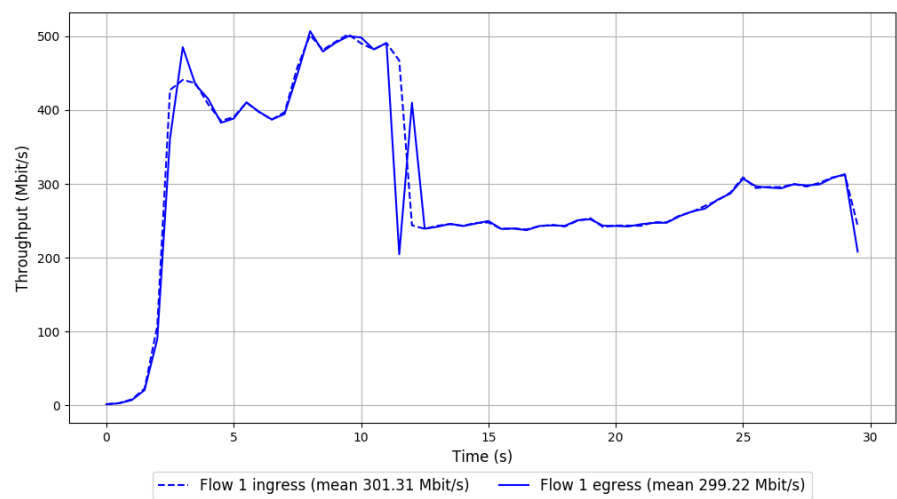


```
Run 2: Statistics of Vivace-latency

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

# Below is generated by plot.py at 2018-02-13 09:08:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 299.22 Mbit/s
95th percentile per-packet one-way delay: 58.240 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 299.22 Mbit/s
95th percentile per-packet one-way delay: 58.240 ms
Loss rate: 1.03%
```

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 03:45:26

End at: 2018-02-13 03:45:56

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.35 Mbit/s

95th percentile per-packet one-way delay: 74.968 ms

Loss rate: 0.53%

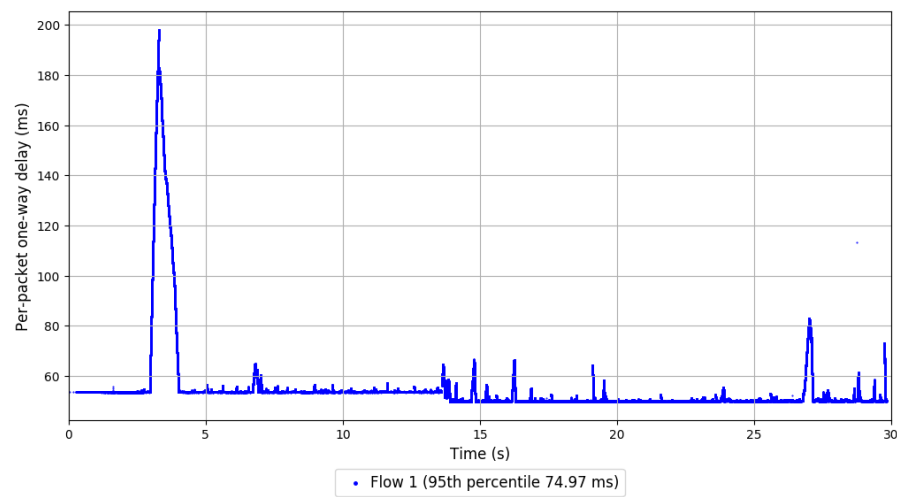
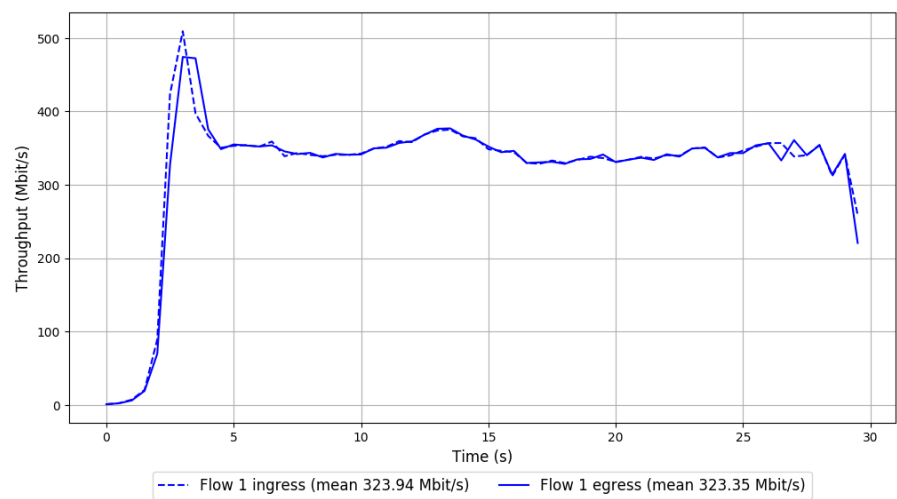
-- Flow 1:

Average throughput: 323.35 Mbit/s

95th percentile per-packet one-way delay: 74.968 ms

Loss rate: 0.53%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-13 03:59:37

End at: 2018-02-13 04:00:07

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.38 Mbit/s

95th percentile per-packet one-way delay: 77.688 ms

Loss rate: 1.00%

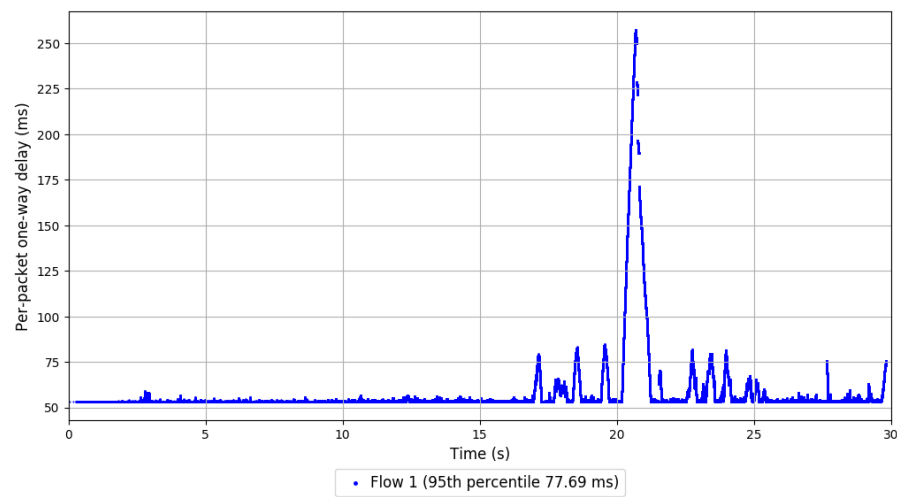
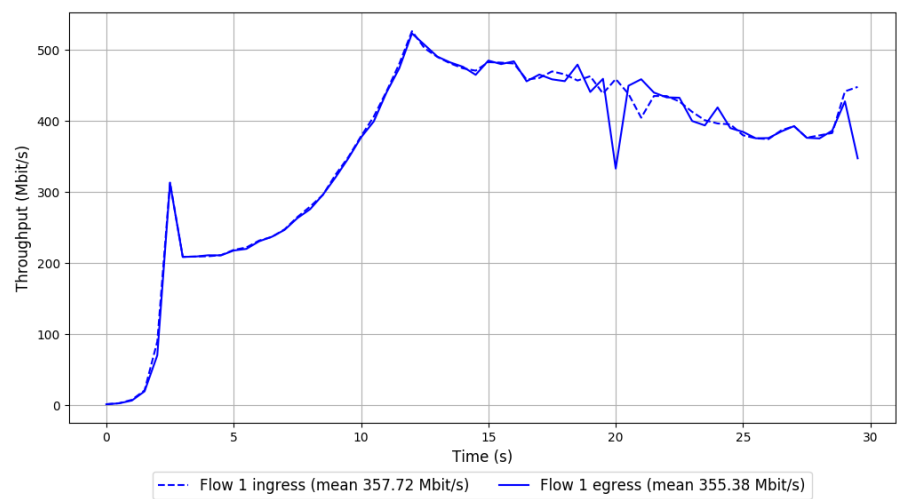
-- Flow 1:

Average throughput: 355.38 Mbit/s

95th percentile per-packet one-way delay: 77.688 ms

Loss rate: 1.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-13 04:13:57

End at: 2018-02-13 04:14:27

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.38 Mbit/s

95th percentile per-packet one-way delay: 61.236 ms

Loss rate: 0.41%

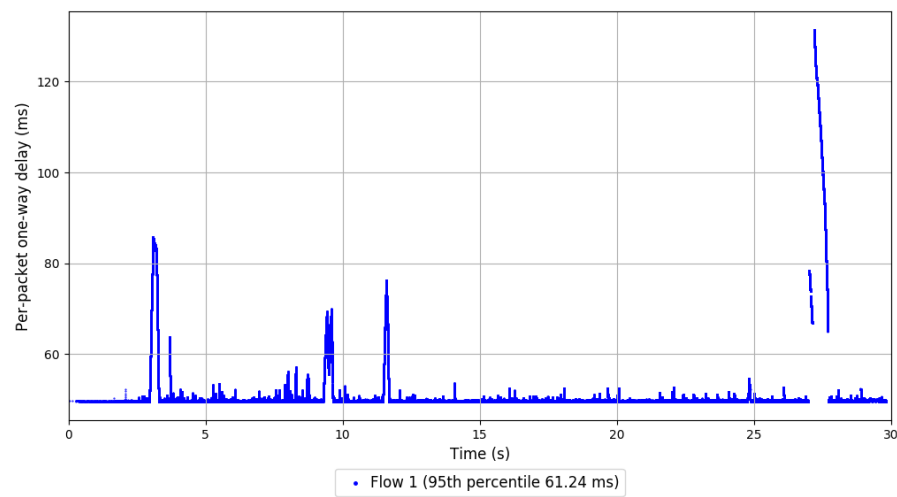
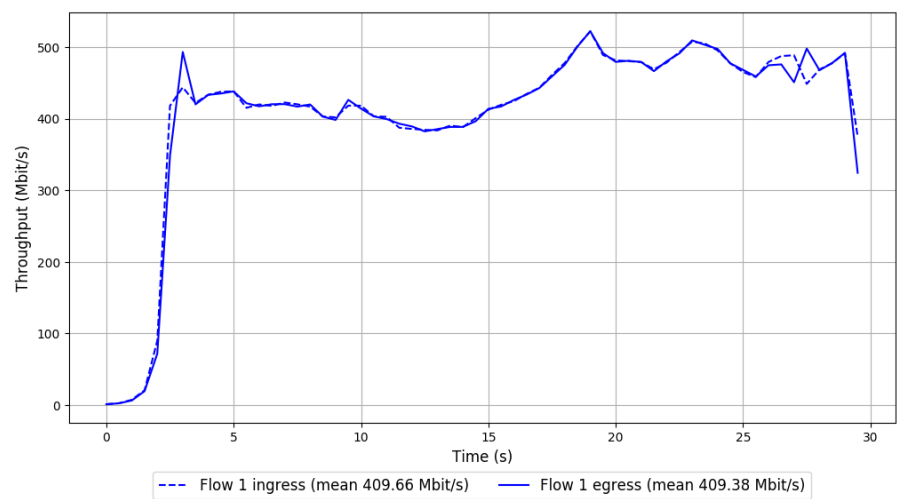
-- Flow 1:

Average throughput: 409.38 Mbit/s

95th percentile per-packet one-way delay: 61.236 ms

Loss rate: 0.41%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-13 04:28:35

End at: 2018-02-13 04:29:05

Below is generated by plot.py at 2018-02-13 09:08:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.43 Mbit/s

95th percentile per-packet one-way delay: 58.399 ms

Loss rate: 0.38%

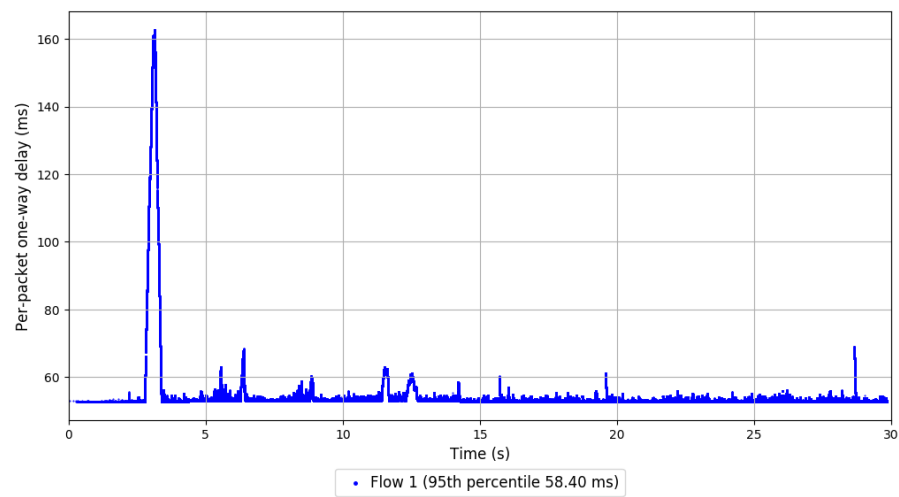
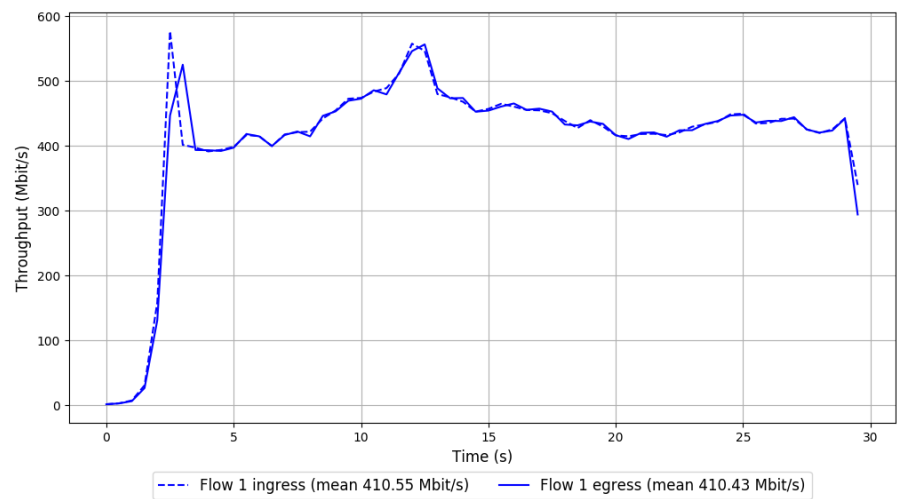
-- Flow 1:

Average throughput: 410.43 Mbit/s

95th percentile per-packet one-way delay: 58.399 ms

Loss rate: 0.38%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-13 04:43:06

End at: 2018-02-13 04:43:36

Below is generated by plot.py at 2018-02-13 09:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.04 Mbit/s

95th percentile per-packet one-way delay: 53.570 ms

Loss rate: 1.53%

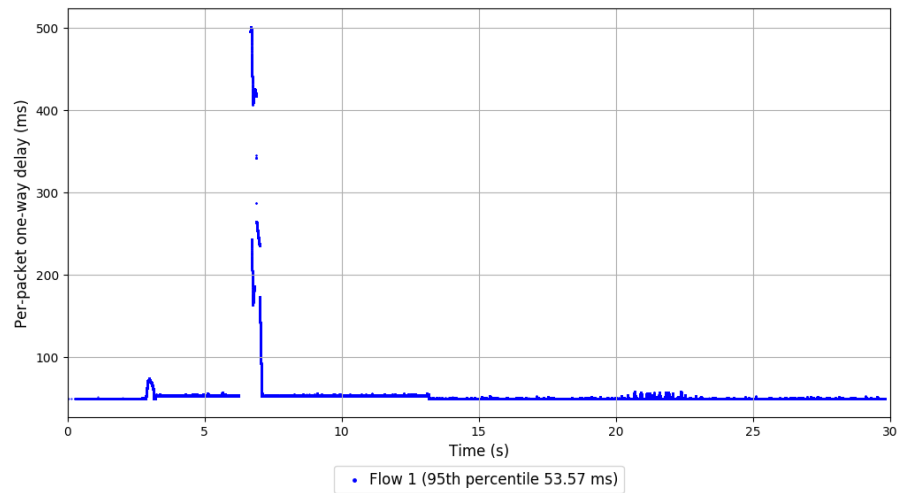
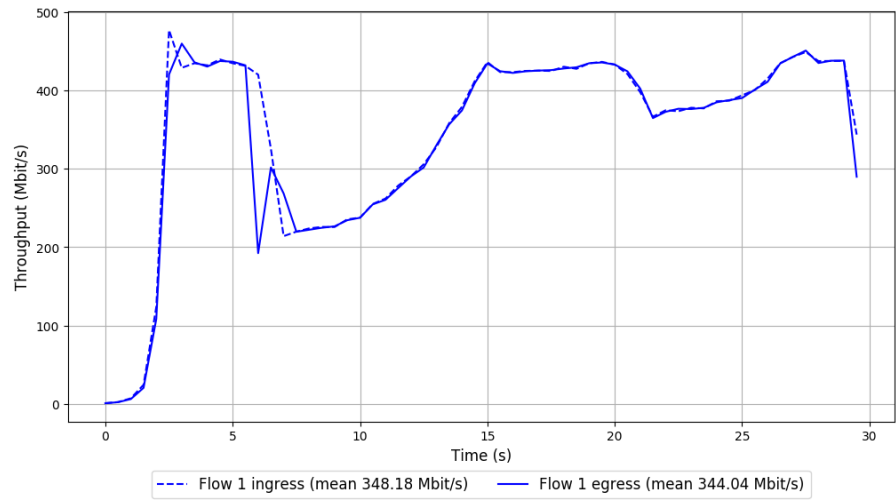
-- Flow 1:

Average throughput: 344.04 Mbit/s

95th percentile per-packet one-way delay: 53.570 ms

Loss rate: 1.53%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-13 04:57:25

End at: 2018-02-13 04:57:55

Below is generated by plot.py at 2018-02-13 09:11:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.49 Mbit/s

95th percentile per-packet one-way delay: 54.968 ms

Loss rate: 0.36%

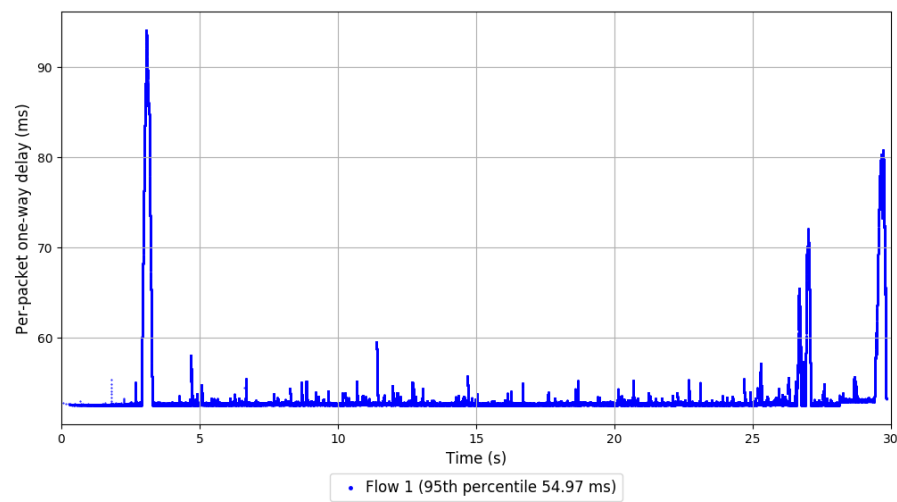
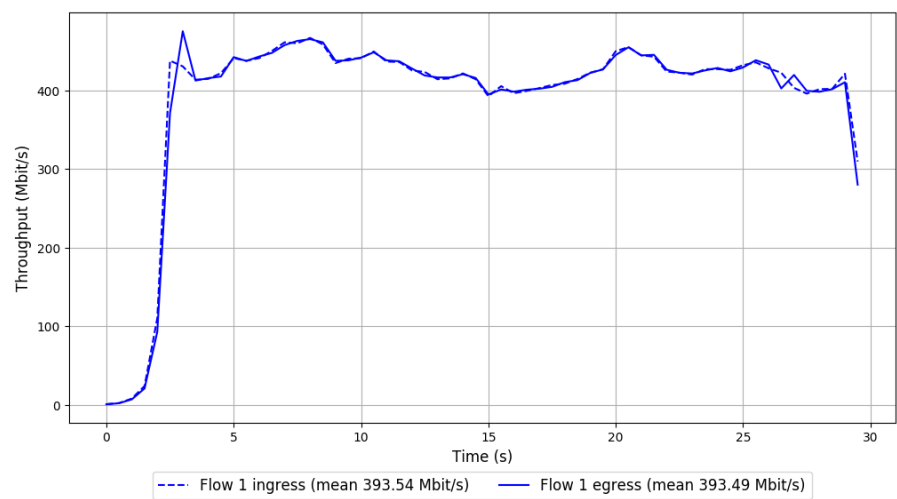
-- Flow 1:

Average throughput: 393.49 Mbit/s

95th percentile per-packet one-way delay: 54.968 ms

Loss rate: 0.36%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 05:11:47

End at: 2018-02-13 05:12:17

Below is generated by plot.py at 2018-02-13 09:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.51 Mbit/s

95th percentile per-packet one-way delay: 84.607 ms

Loss rate: 0.36%

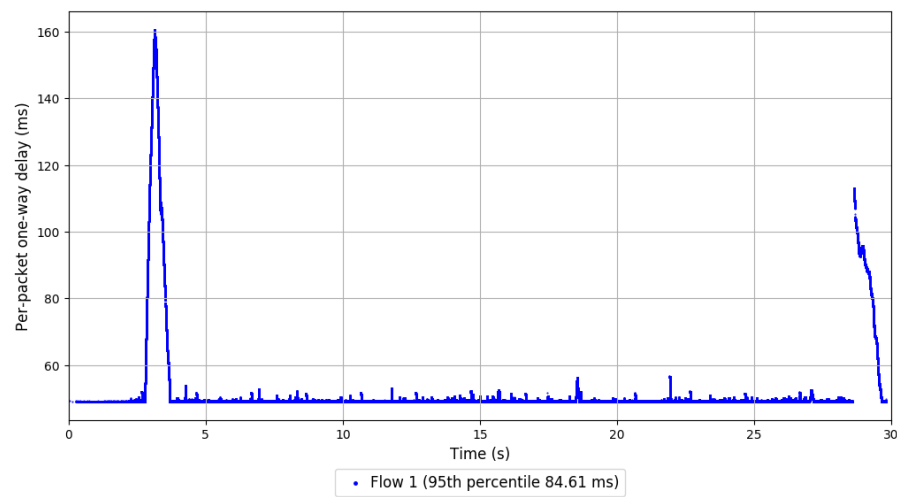
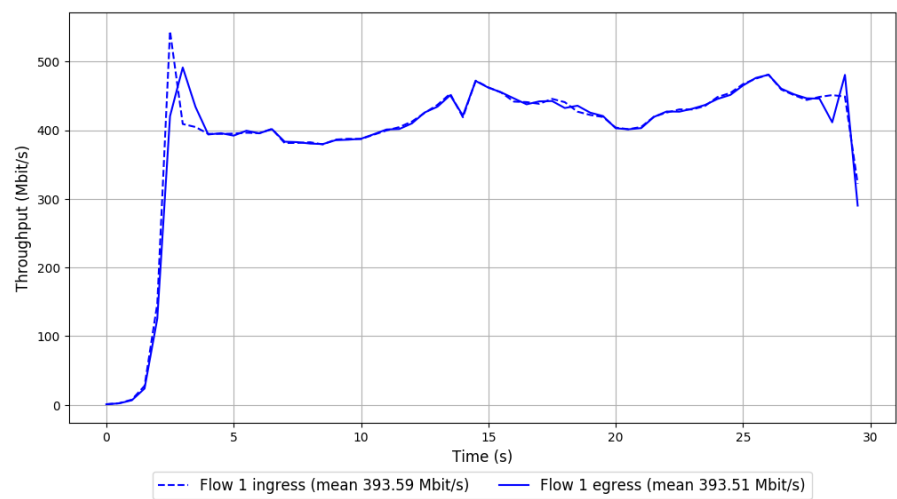
-- Flow 1:

Average throughput: 393.51 Mbit/s

95th percentile per-packet one-way delay: 84.607 ms

Loss rate: 0.36%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 05:26:31

End at: 2018-02-13 05:27:01

Below is generated by plot.py at 2018-02-13 09:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.96 Mbit/s

95th percentile per-packet one-way delay: 50.113 ms

Loss rate: 0.38%

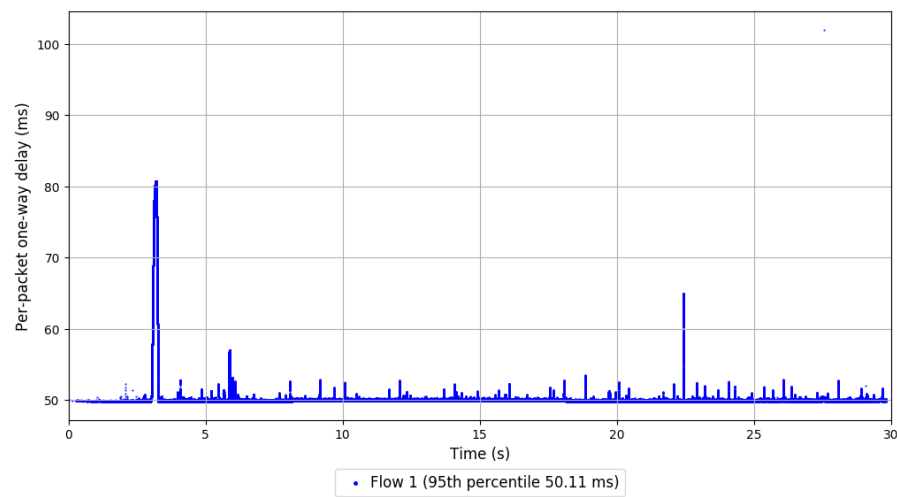
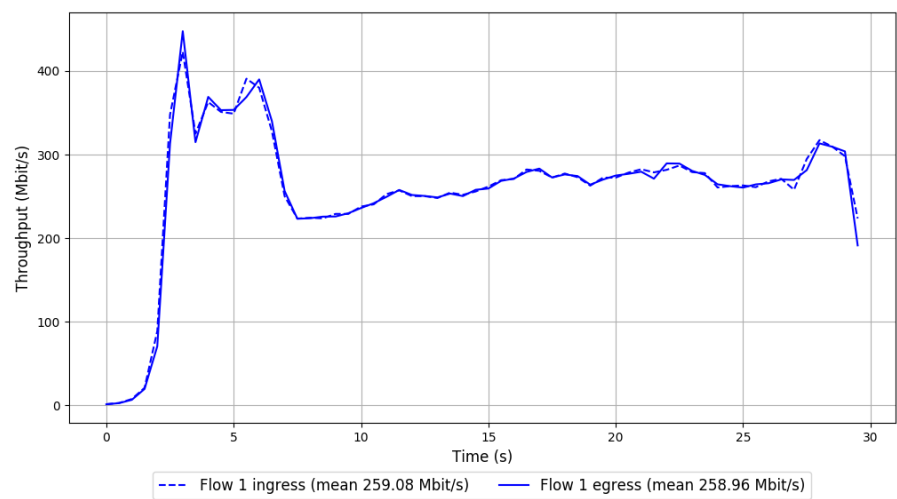
-- Flow 1:

Average throughput: 258.96 Mbit/s

95th percentile per-packet one-way delay: 50.113 ms

Loss rate: 0.38%

Run 10: Report of Vivace-latency — Data Link

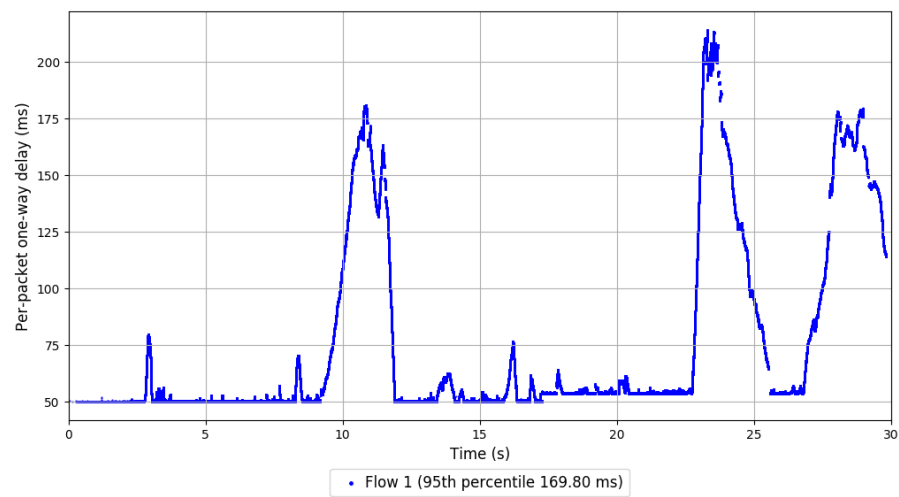
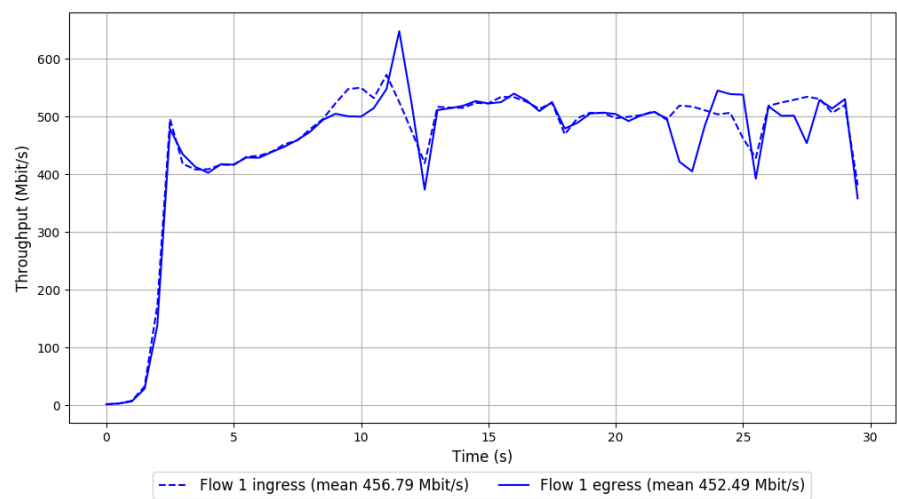


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 03:08:42
End at: 2018-02-13 03:09:12

# Below is generated by plot.py at 2018-02-13 09:15:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 452.49 Mbit/s
95th percentile per-packet one-way delay: 169.798 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 452.49 Mbit/s
95th percentile per-packet one-way delay: 169.798 ms
Loss rate: 1.29%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 03:23:04

End at: 2018-02-13 03:23:34

Below is generated by plot.py at 2018-02-13 09:15:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.67 Mbit/s

95th percentile per-packet one-way delay: 180.011 ms

Loss rate: 1.94%

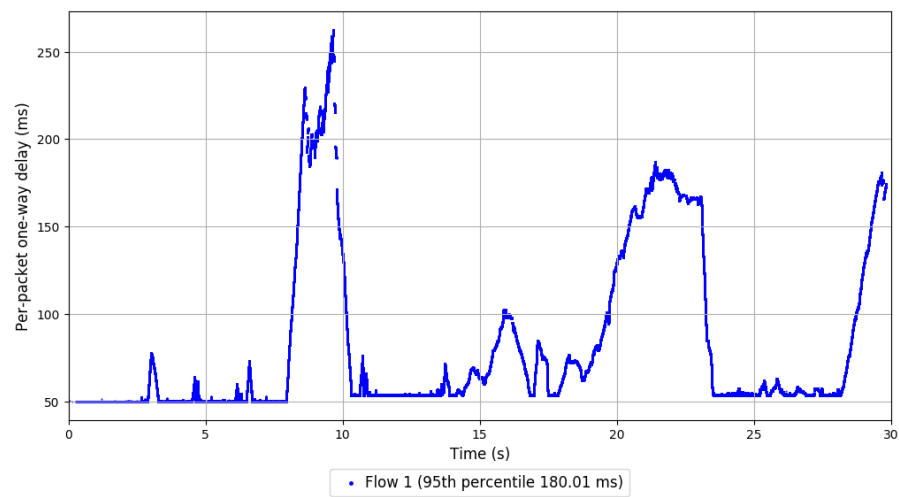
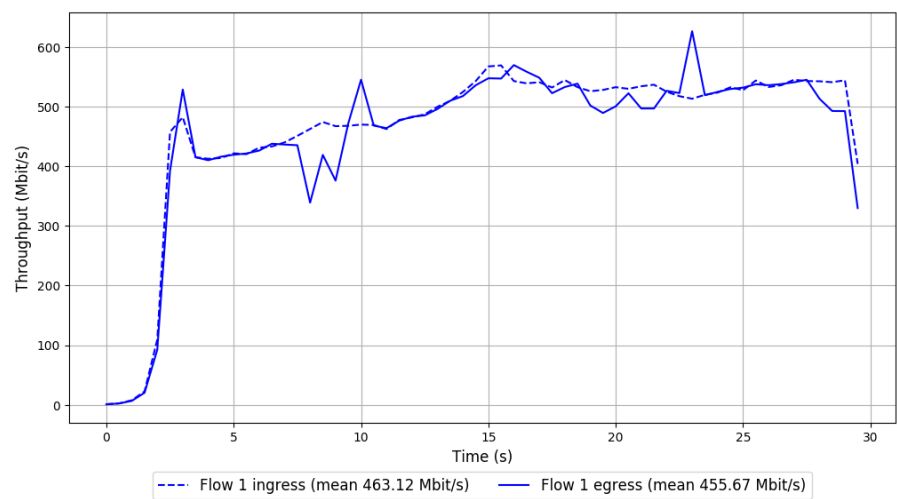
-- Flow 1:

Average throughput: 455.67 Mbit/s

95th percentile per-packet one-way delay: 180.011 ms

Loss rate: 1.94%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 03:37:22

End at: 2018-02-13 03:37:52

Below is generated by plot.py at 2018-02-13 09:16:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.67 Mbit/s

95th percentile per-packet one-way delay: 178.457 ms

Loss rate: 4.74%

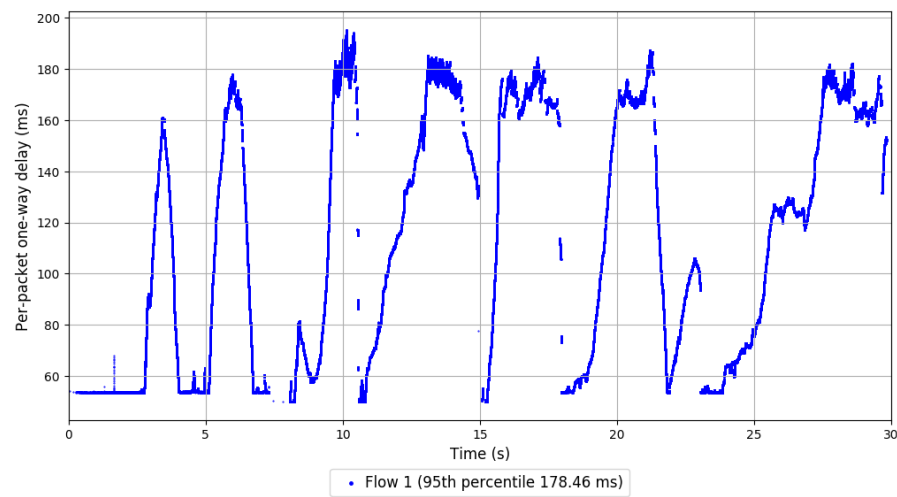
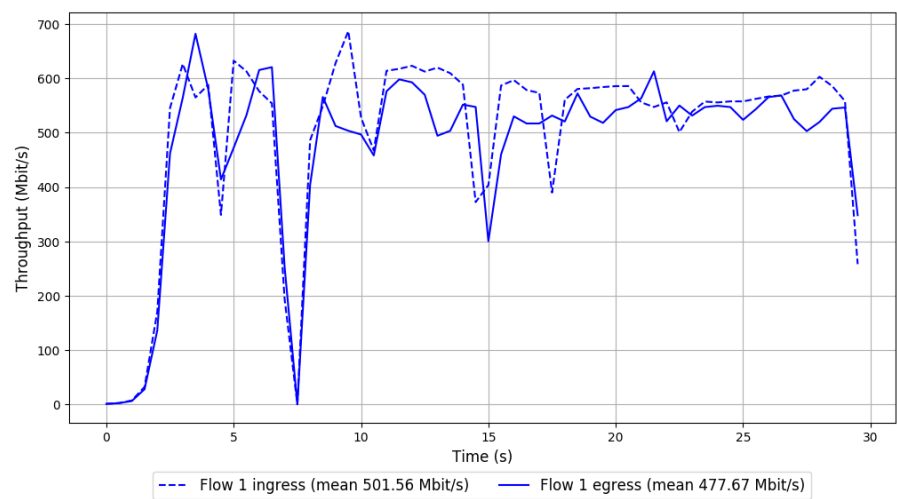
-- Flow 1:

Average throughput: 477.67 Mbit/s

95th percentile per-packet one-way delay: 178.457 ms

Loss rate: 4.74%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-13 03:51:45

End at: 2018-02-13 03:52:15

Below is generated by plot.py at 2018-02-13 09:16:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.85 Mbit/s

95th percentile per-packet one-way delay: 183.491 ms

Loss rate: 4.90%

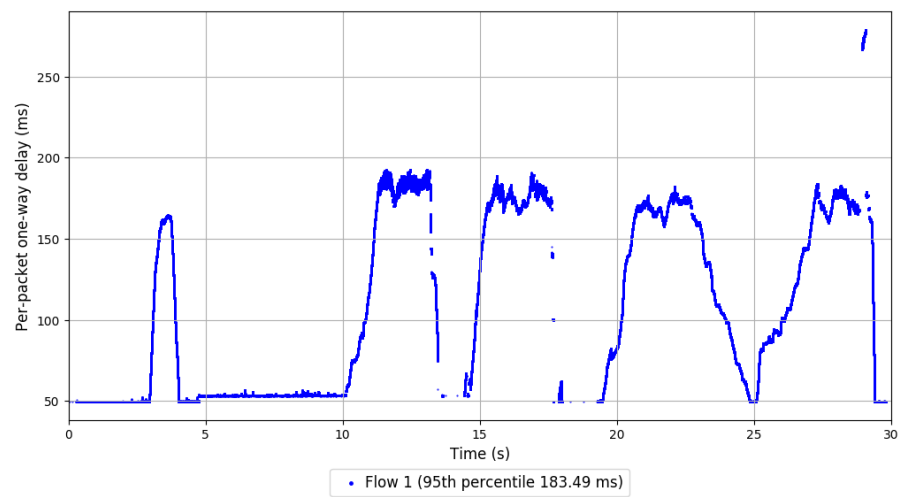
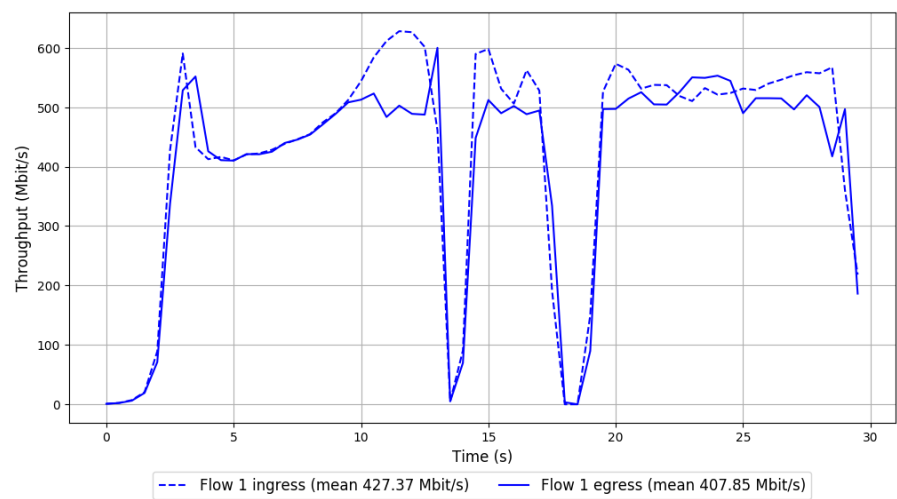
-- Flow 1:

Average throughput: 407.85 Mbit/s

95th percentile per-packet one-way delay: 183.491 ms

Loss rate: 4.90%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-13 04:05:59

End at: 2018-02-13 04:06:29

Below is generated by plot.py at 2018-02-13 09:16:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 432.13 Mbit/s

95th percentile per-packet one-way delay: 69.147 ms

Loss rate: 0.40%

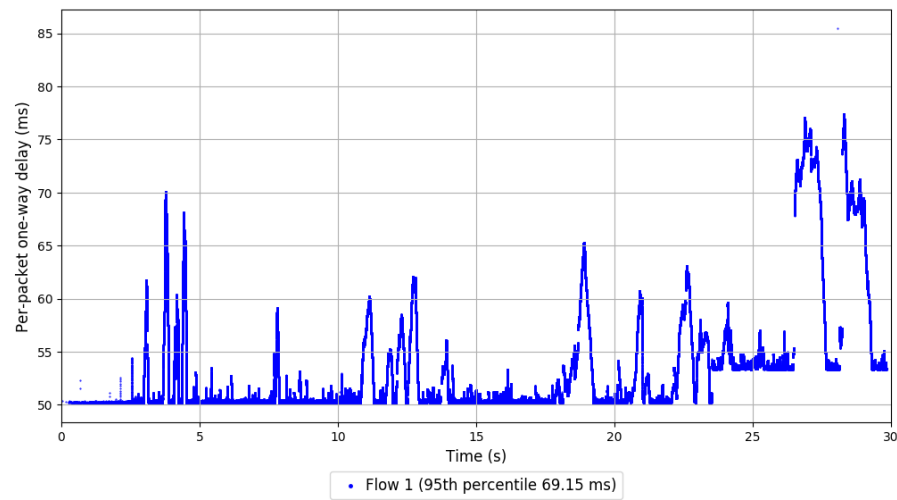
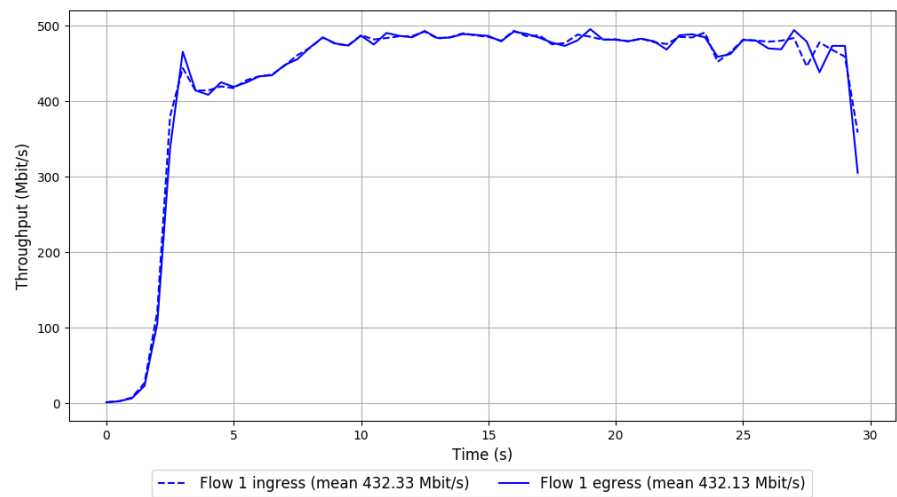
-- Flow 1:

Average throughput: 432.13 Mbit/s

95th percentile per-packet one-way delay: 69.147 ms

Loss rate: 0.40%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-13 04:20:22

End at: 2018-02-13 04:20:52

Below is generated by plot.py at 2018-02-13 09:16:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.52 Mbit/s

95th percentile per-packet one-way delay: 181.457 ms

Loss rate: 3.62%

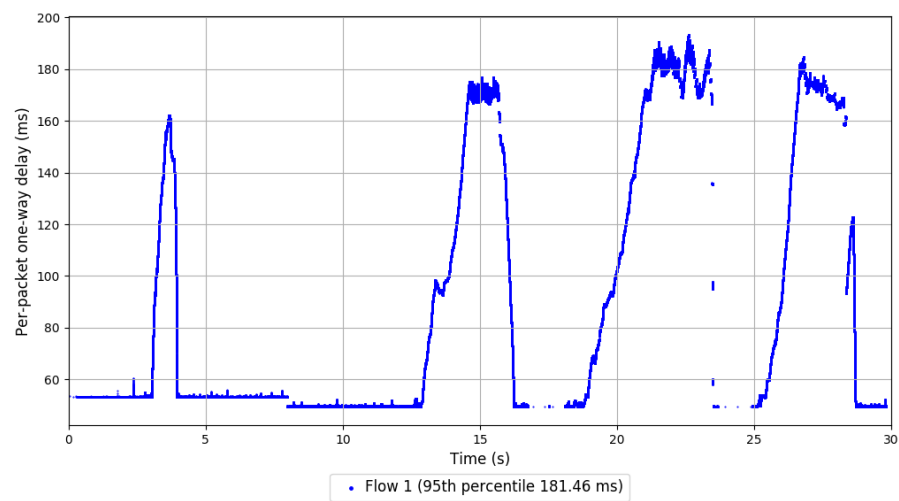
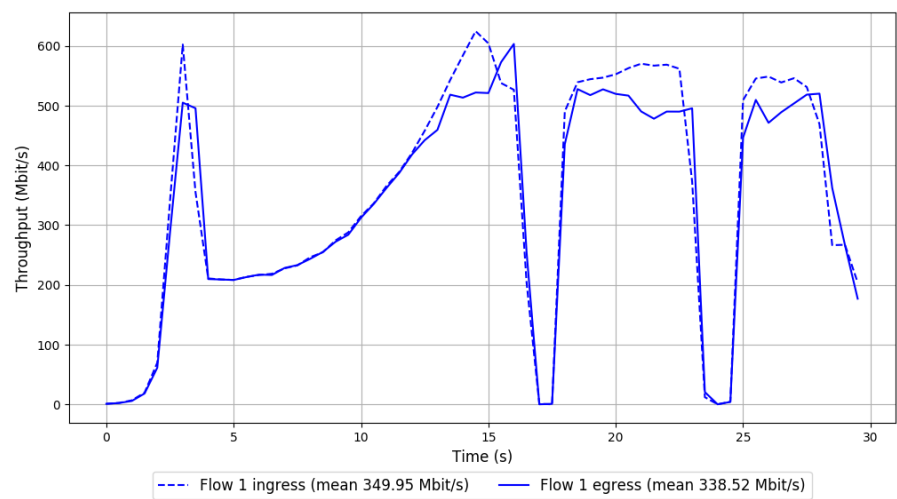
-- Flow 1:

Average throughput: 338.52 Mbit/s

95th percentile per-packet one-way delay: 181.457 ms

Loss rate: 3.62%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-13 04:35:10

End at: 2018-02-13 04:35:40

Below is generated by plot.py at 2018-02-13 09:19:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 465.80 Mbit/s

95th percentile per-packet one-way delay: 176.562 ms

Loss rate: 2.72%

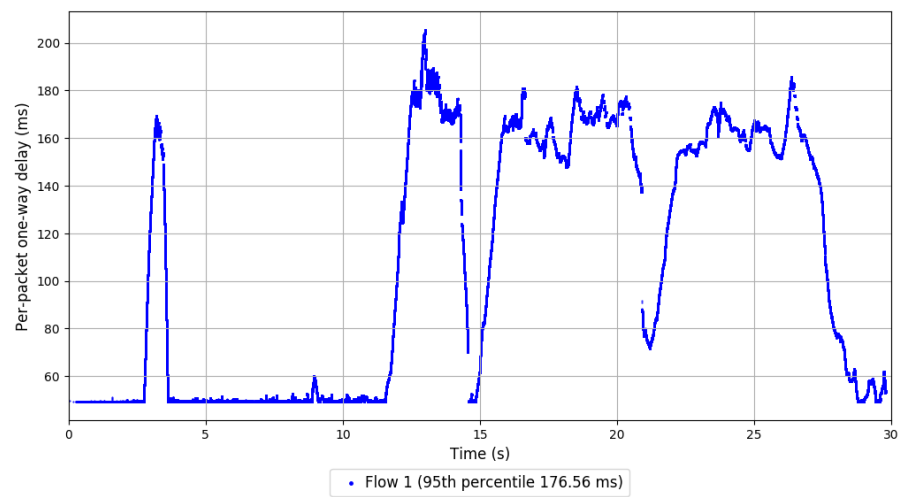
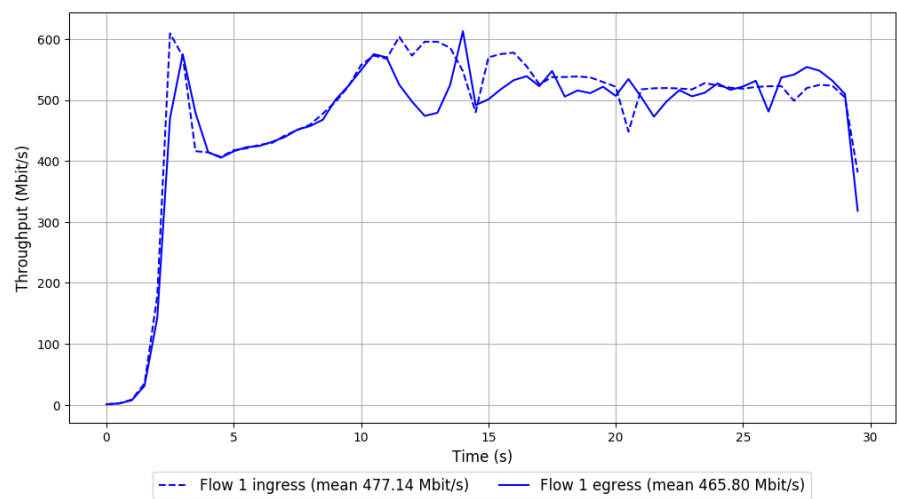
-- Flow 1:

Average throughput: 465.80 Mbit/s

95th percentile per-packet one-way delay: 176.562 ms

Loss rate: 2.72%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-13 04:49:28

End at: 2018-02-13 04:49:58

Below is generated by plot.py at 2018-02-13 09:20:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 470.18 Mbit/s

95th percentile per-packet one-way delay: 172.592 ms

Loss rate: 2.19%

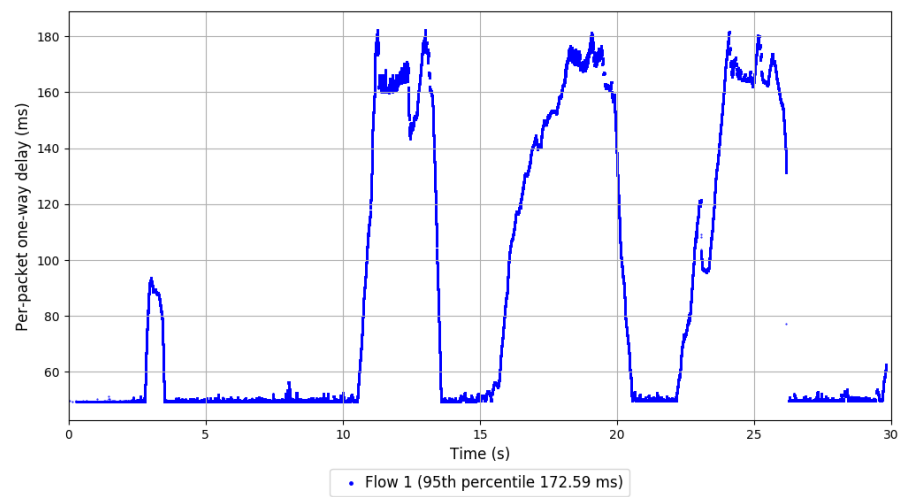
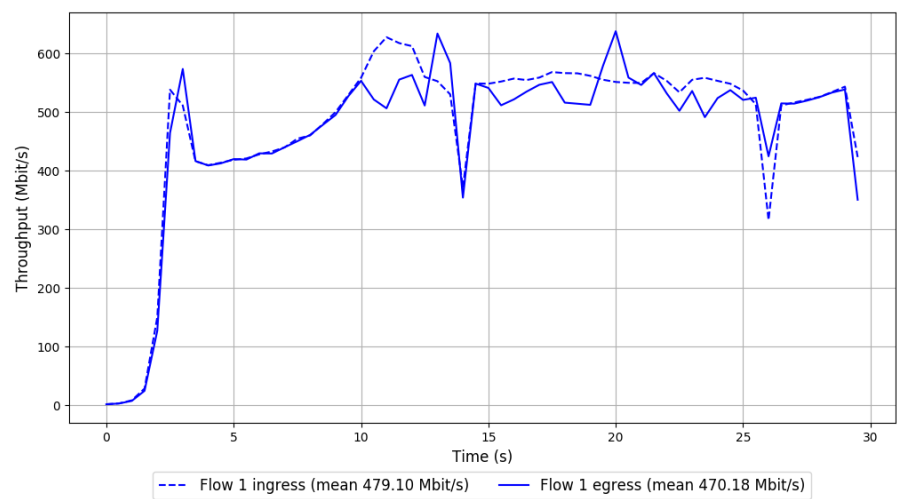
-- Flow 1:

Average throughput: 470.18 Mbit/s

95th percentile per-packet one-way delay: 172.592 ms

Loss rate: 2.19%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-13 05:03:53

End at: 2018-02-13 05:04:23

Below is generated by plot.py at 2018-02-13 09:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.70 Mbit/s

95th percentile per-packet one-way delay: 181.421 ms

Loss rate: 2.80%

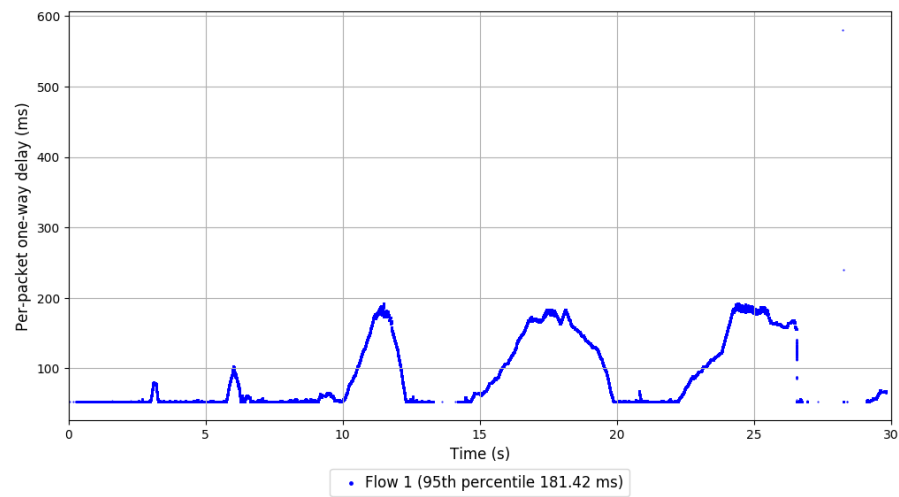
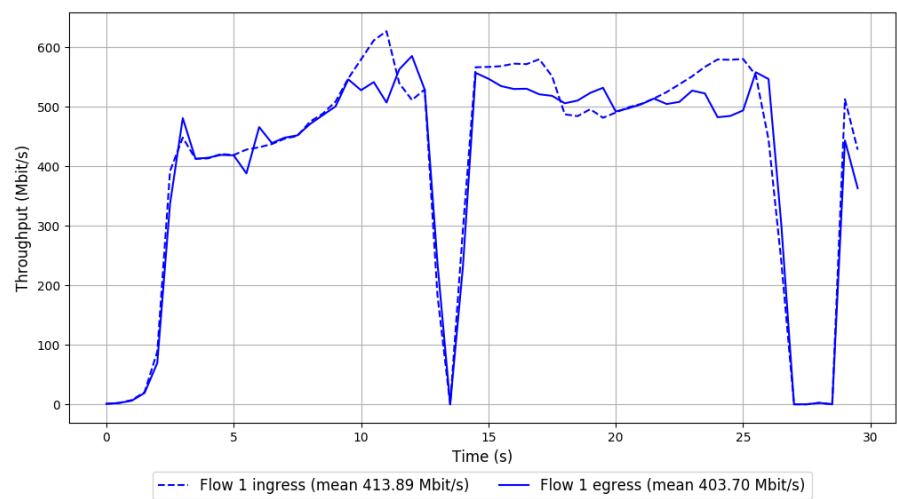
-- Flow 1:

Average throughput: 403.70 Mbit/s

95th percentile per-packet one-way delay: 181.421 ms

Loss rate: 2.80%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-13 05:18:19

End at: 2018-02-13 05:18:49

Below is generated by plot.py at 2018-02-13 09:23:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.67 Mbit/s

95th percentile per-packet one-way delay: 100.891 ms

Loss rate: 0.39%

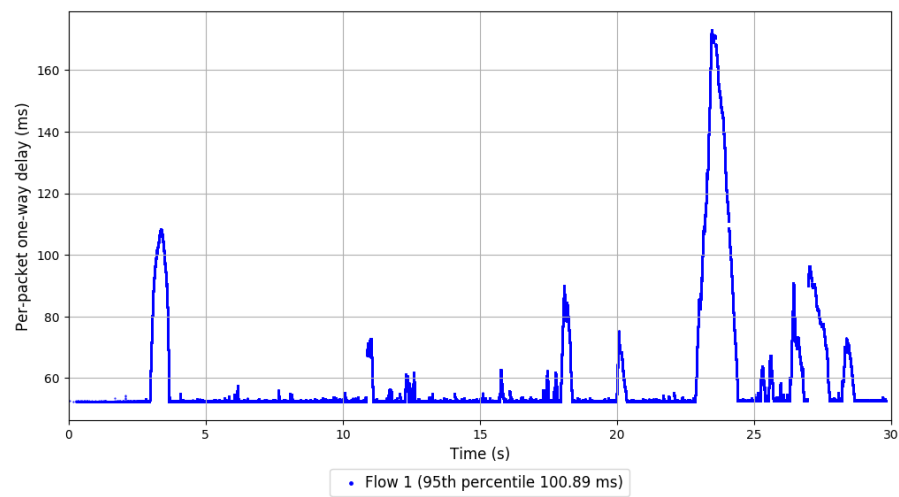
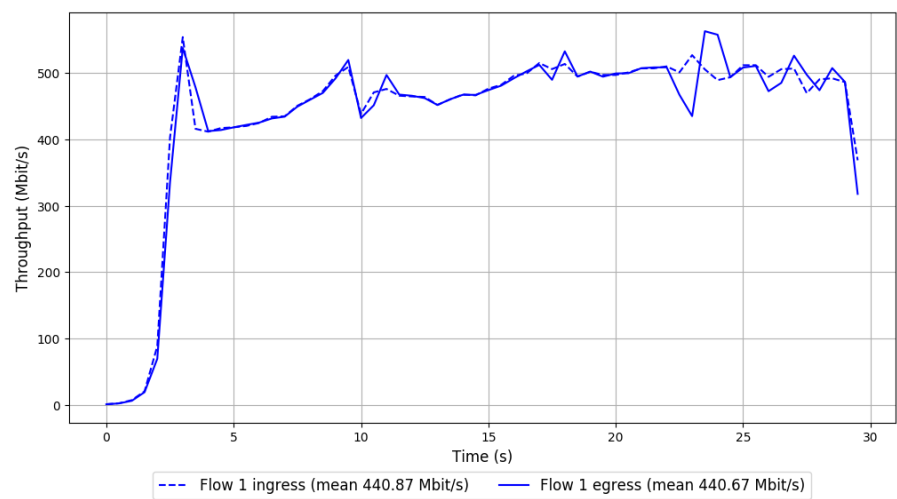
-- Flow 1:

Average throughput: 440.67 Mbit/s

95th percentile per-packet one-way delay: 100.891 ms

Loss rate: 0.39%

Run 10: Report of Vivace-loss — Data Link

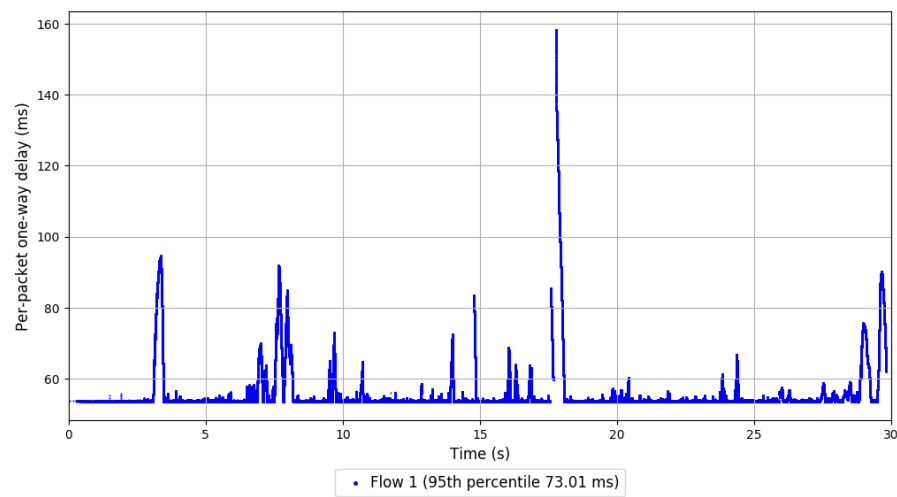
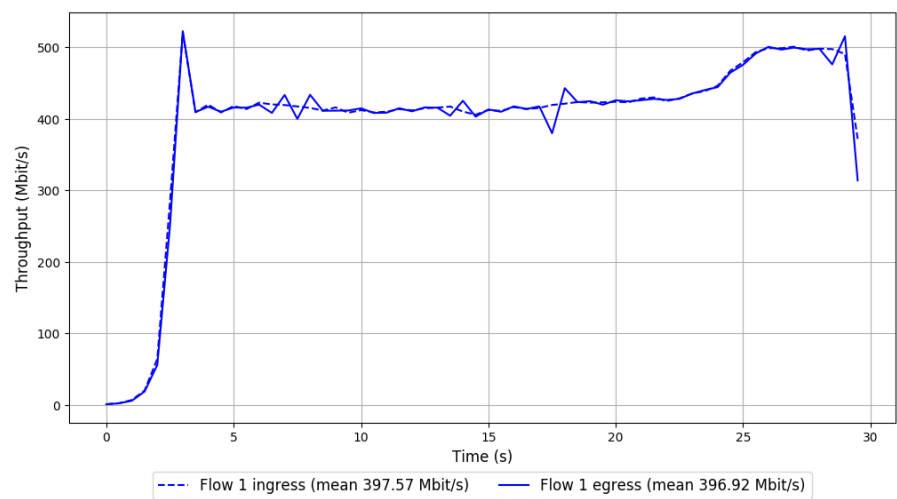


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 03:11:56
End at: 2018-02-13 03:12:26

# Below is generated by plot.py at 2018-02-13 09:23:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.92 Mbit/s
95th percentile per-packet one-way delay: 73.008 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 396.92 Mbit/s
95th percentile per-packet one-way delay: 73.008 ms
Loss rate: 0.53%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 03:26:19

End at: 2018-02-13 03:26:49

Below is generated by plot.py at 2018-02-13 09:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.81 Mbit/s

95th percentile per-packet one-way delay: 70.391 ms

Loss rate: 0.42%

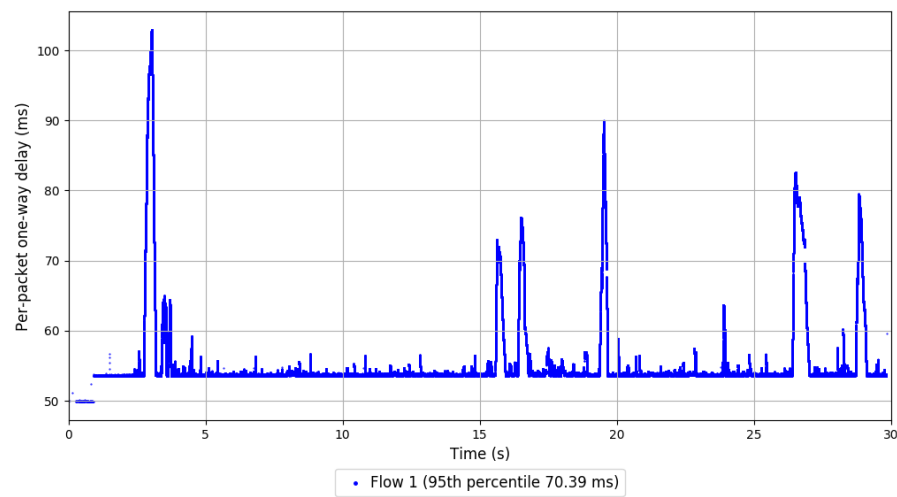
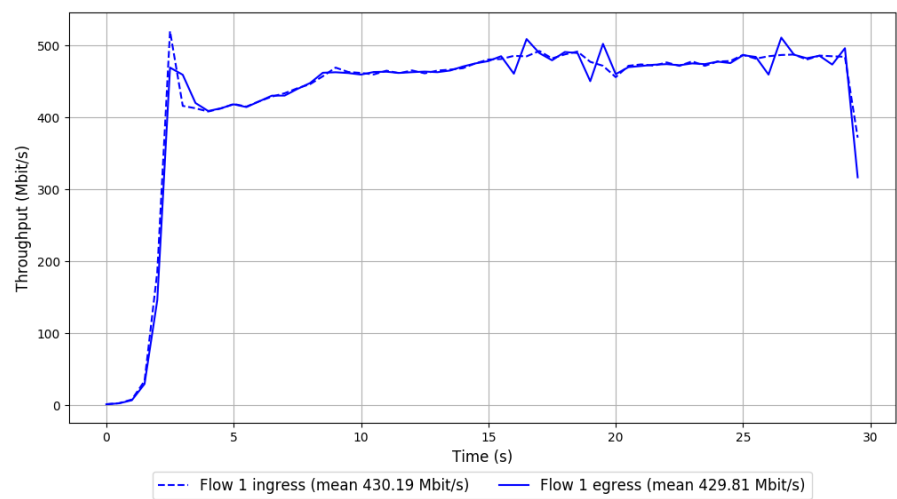
-- Flow 1:

Average throughput: 429.81 Mbit/s

95th percentile per-packet one-way delay: 70.391 ms

Loss rate: 0.42%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 03:40:38

End at: 2018-02-13 03:41:08

Below is generated by plot.py at 2018-02-13 09:23:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 421.83 Mbit/s

95th percentile per-packet one-way delay: 76.742 ms

Loss rate: 0.58%

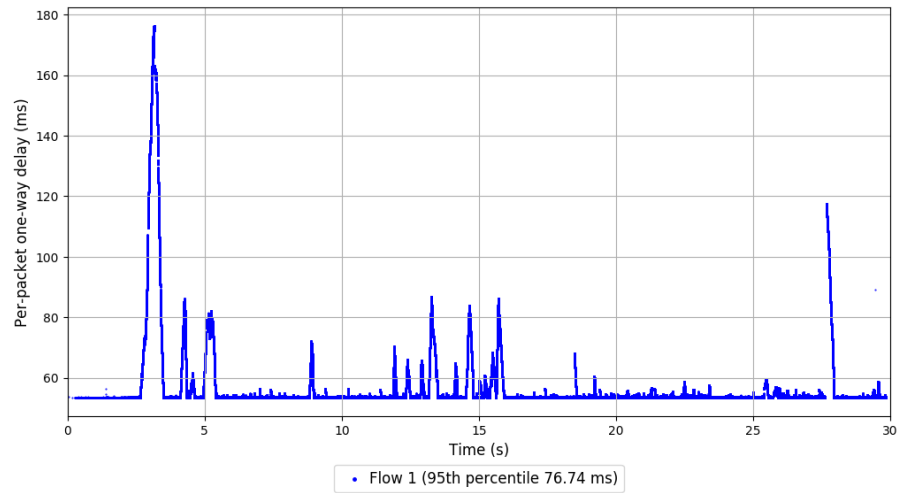
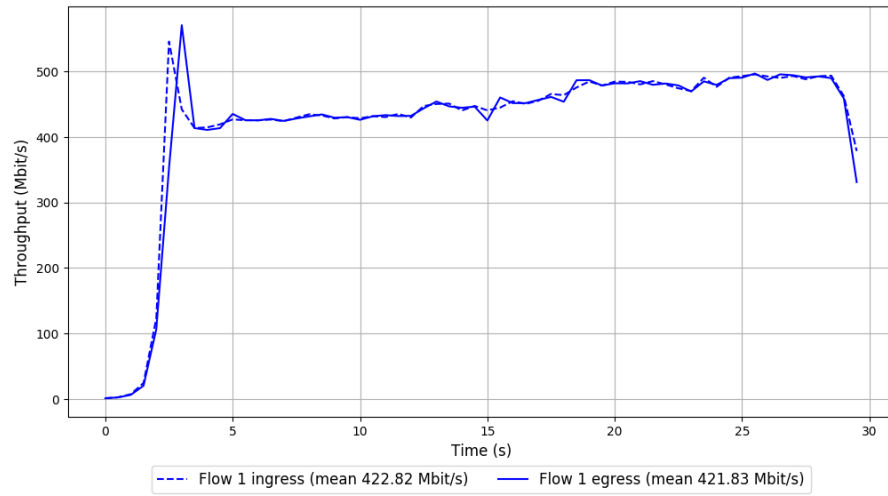
-- Flow 1:

Average throughput: 421.83 Mbit/s

95th percentile per-packet one-way delay: 76.742 ms

Loss rate: 0.58%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-13 03:54:57

End at: 2018-02-13 03:55:27

Below is generated by plot.py at 2018-02-13 09:24:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 421.83 Mbit/s

95th percentile per-packet one-way delay: 113.942 ms

Loss rate: 0.52%

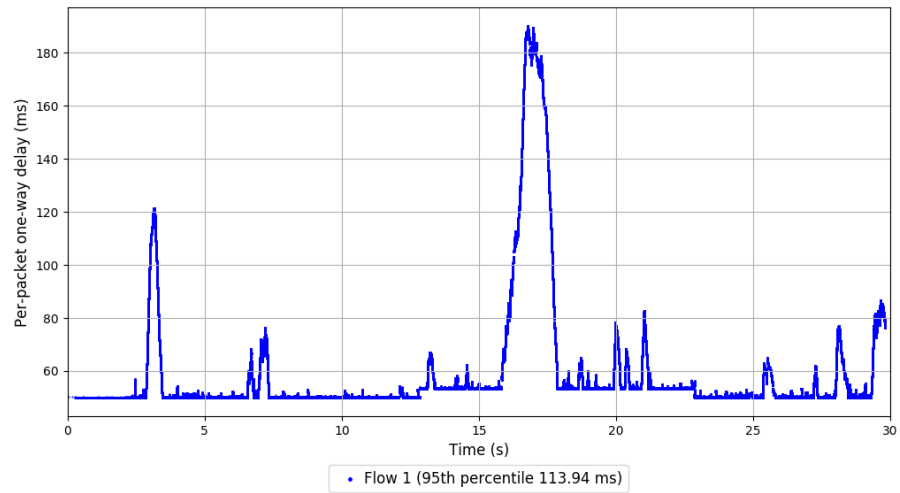
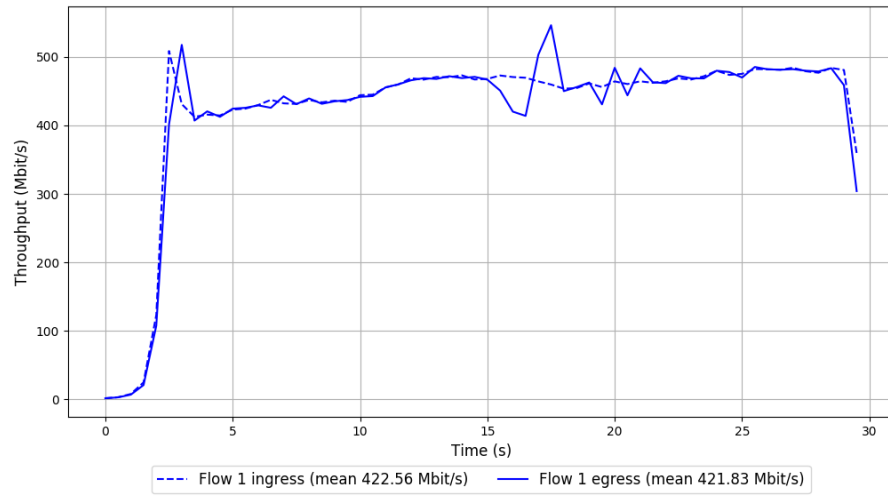
-- Flow 1:

Average throughput: 421.83 Mbit/s

95th percentile per-packet one-way delay: 113.942 ms

Loss rate: 0.52%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-13 04:09:12

End at: 2018-02-13 04:09:42

Below is generated by plot.py at 2018-02-13 09:26:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.45 Mbit/s

95th percentile per-packet one-way delay: 124.377 ms

Loss rate: 0.63%

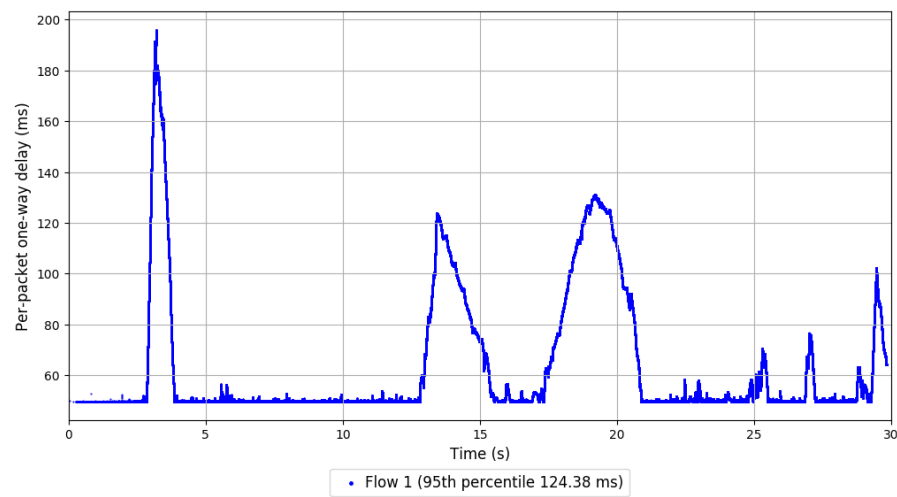
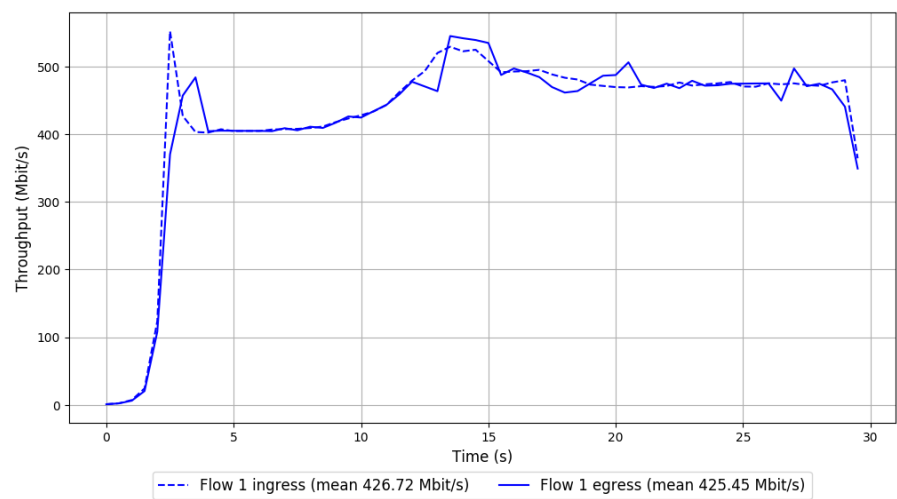
-- Flow 1:

Average throughput: 425.45 Mbit/s

95th percentile per-packet one-way delay: 124.377 ms

Loss rate: 0.63%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-13 04:23:28

End at: 2018-02-13 04:23:58

Below is generated by plot.py at 2018-02-13 09:27:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.65 Mbit/s

95th percentile per-packet one-way delay: 65.113 ms

Loss rate: 0.49%

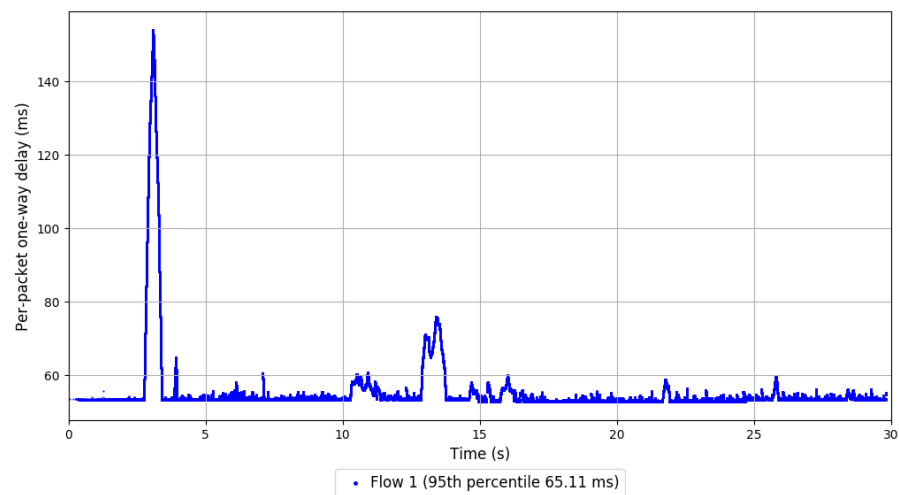
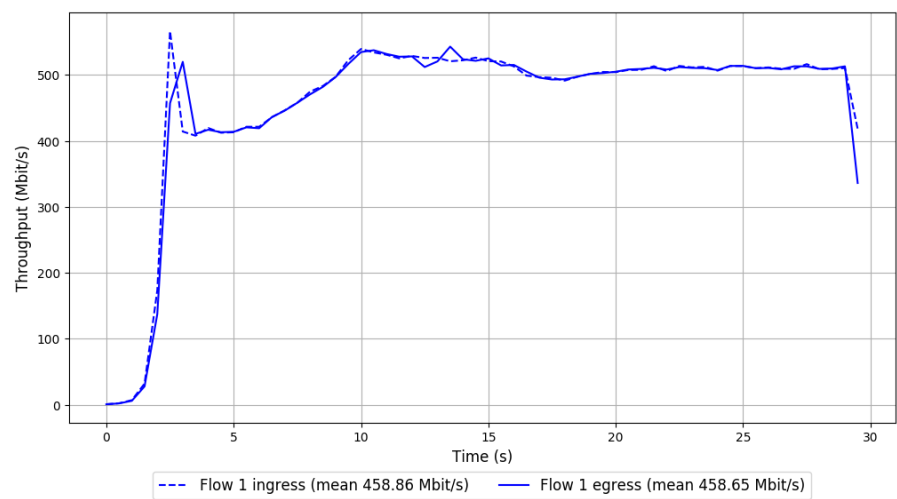
-- Flow 1:

Average throughput: 458.65 Mbit/s

95th percentile per-packet one-way delay: 65.113 ms

Loss rate: 0.49%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-13 04:38:22

End at: 2018-02-13 04:38:52

Below is generated by plot.py at 2018-02-13 09:28:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.53 Mbit/s

95th percentile per-packet one-way delay: 168.624 ms

Loss rate: 1.02%

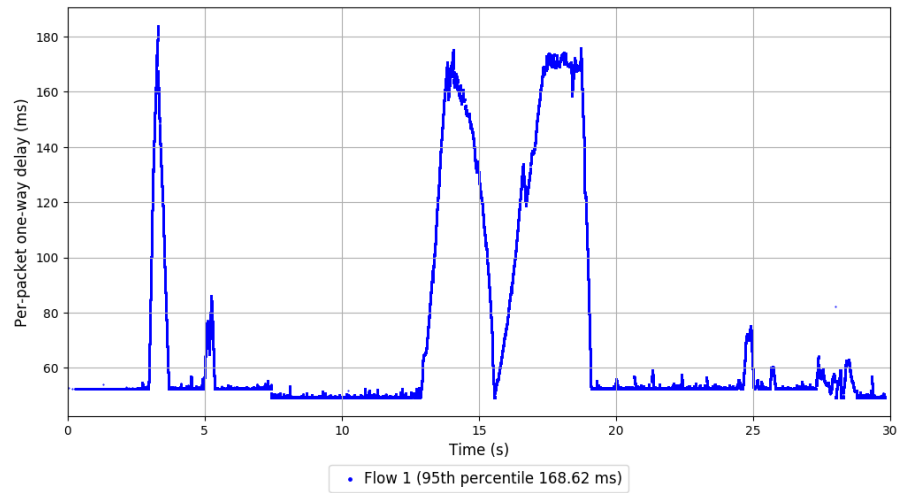
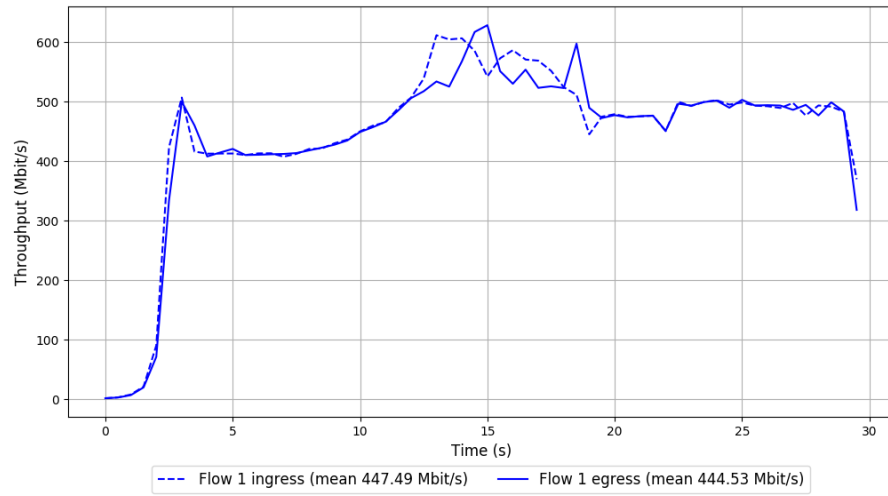
-- Flow 1:

Average throughput: 444.53 Mbit/s

95th percentile per-packet one-way delay: 168.624 ms

Loss rate: 1.02%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-13 04:52:42

End at: 2018-02-13 04:53:12

Below is generated by plot.py at 2018-02-13 09:28:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 432.83 Mbit/s

95th percentile per-packet one-way delay: 104.213 ms

Loss rate: 0.41%

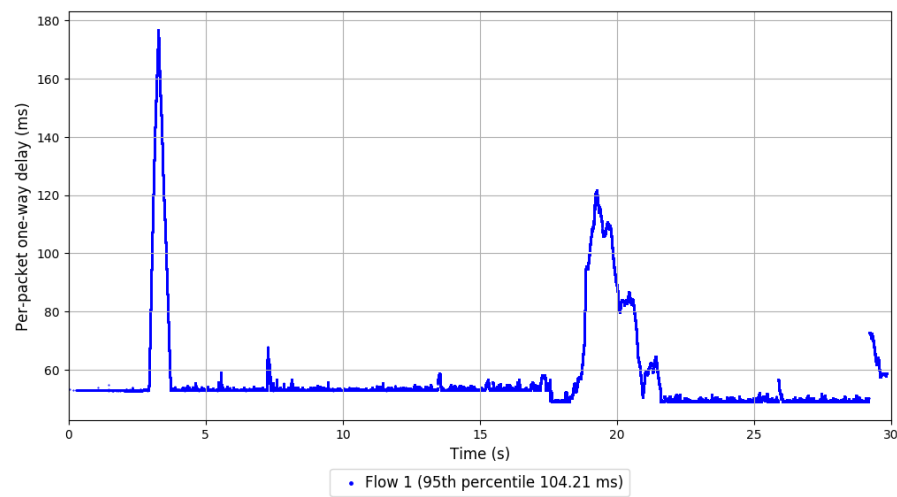
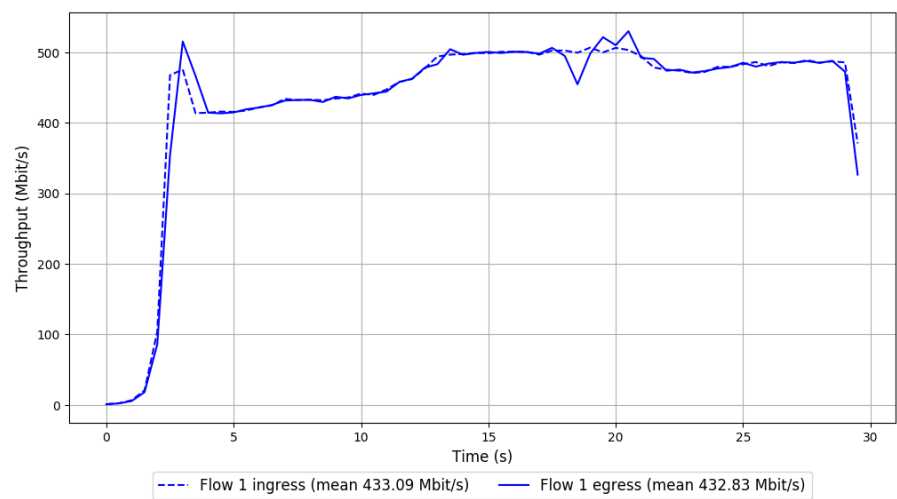
-- Flow 1:

Average throughput: 432.83 Mbit/s

95th percentile per-packet one-way delay: 104.213 ms

Loss rate: 0.41%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-13 05:07:02

End at: 2018-02-13 05:07:32

Below is generated by plot.py at 2018-02-13 09:28:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.48 Mbit/s

95th percentile per-packet one-way delay: 56.827 ms

Loss rate: 0.43%

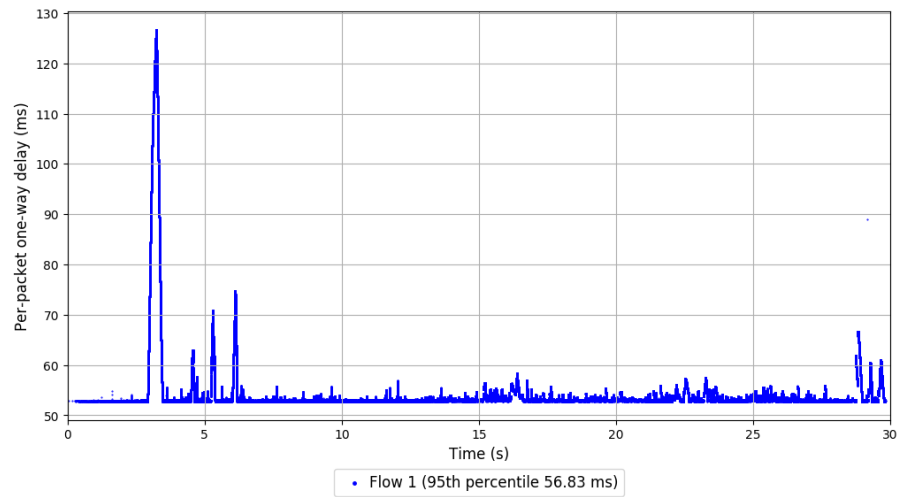
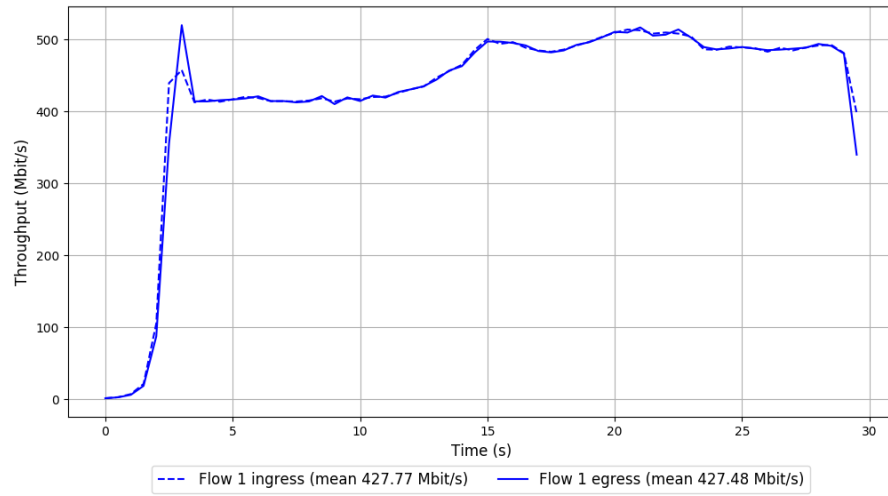
-- Flow 1:

Average throughput: 427.48 Mbit/s

95th percentile per-packet one-way delay: 56.827 ms

Loss rate: 0.43%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 05:21:33

End at: 2018-02-13 05:22:03

Below is generated by plot.py at 2018-02-13 09:28:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.52 Mbit/s

95th percentile per-packet one-way delay: 164.666 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 416.52 Mbit/s

95th percentile per-packet one-way delay: 164.666 ms

Loss rate: 0.74%

Run 10: Report of Vivace-LTE — Data Link

