

## Pantheon Report

Generated at 2018-01-16 22:18:52 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

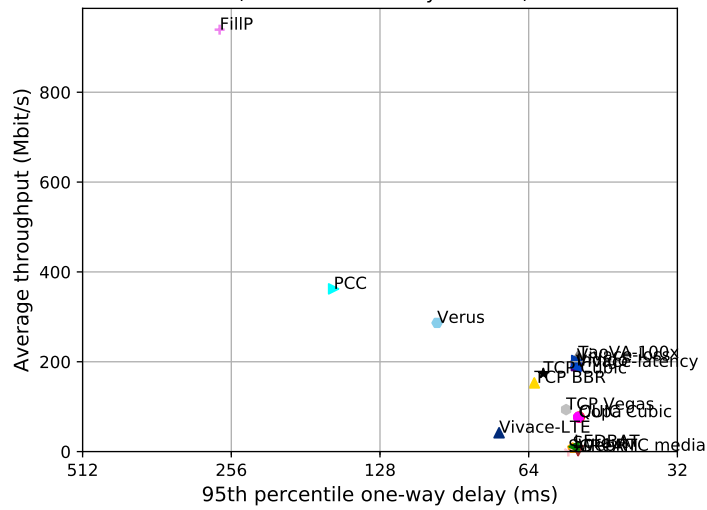
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

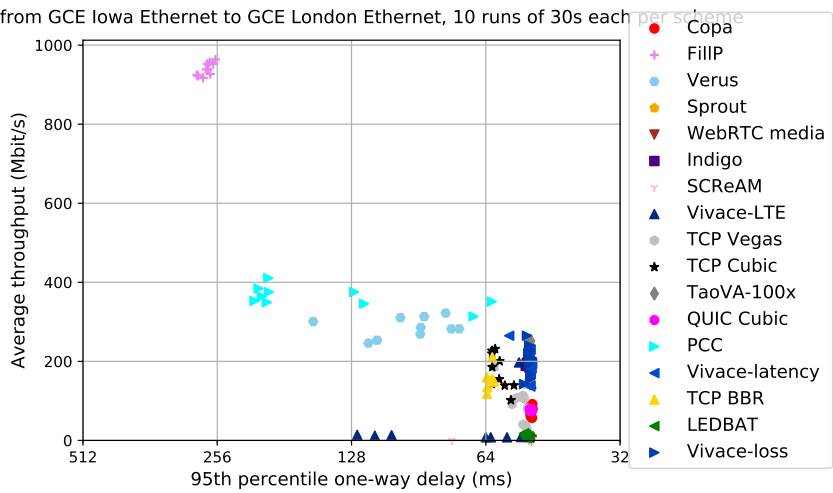
Git summary:

```
branch: master @ af8abdfba95588b0c5f2aeca9e856a1656b0c598
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
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 @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	153.03	62.34	0.06
TCP Cubic	10	174.11	59.78	0.12
LEDBAT	10	10.73	51.83	0.19
PCC	10	362.23	158.85	0.47
QUIC Cubic	10	76.70	50.74	0.00
SCReAM	10	0.21	53.20	0.00
WebRTC media	9	1.90	50.83	0.01
Sprout	10	7.94	52.14	0.12
TaoVA-100x	10	208.57	50.81	0.00
TCP Vegas	10	93.42	53.75	0.26
Verus	10	286.52	98.09	0.75
Copa	10	76.61	50.58	0.00
FillP	10	939.31	270.31	2.98
Indigo	10	191.61	51.23	0.03
Vivace-latency	10	188.62	51.39	0.03
Vivace-loss	10	202.76	51.16	0.00
Vivace-LTE	10	42.03	73.47	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-01-16 17:00:34

End at: 2018-01-16 17:01:04

# Below is generated by plot.py at 2018-01-16 21:02:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.24 Mbit/s

95th percentile per-packet one-way delay: 61.482 ms

Loss rate: 0.02%

-- Flow 1:

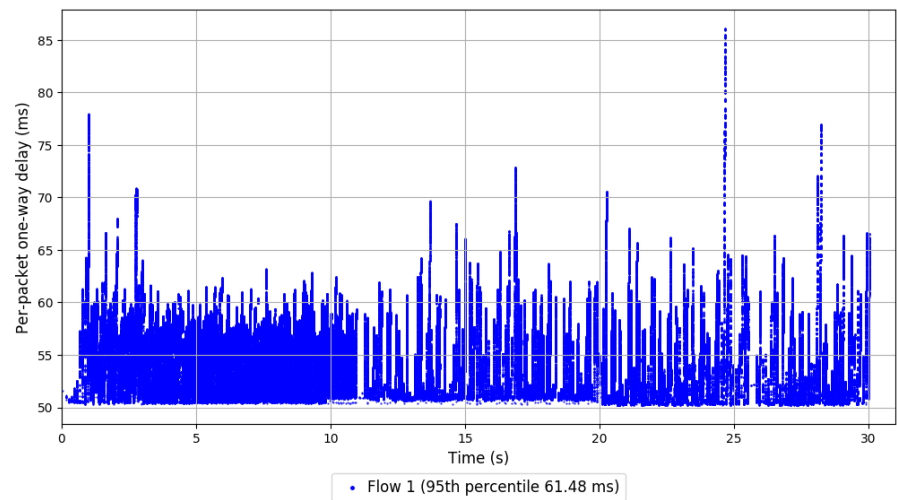
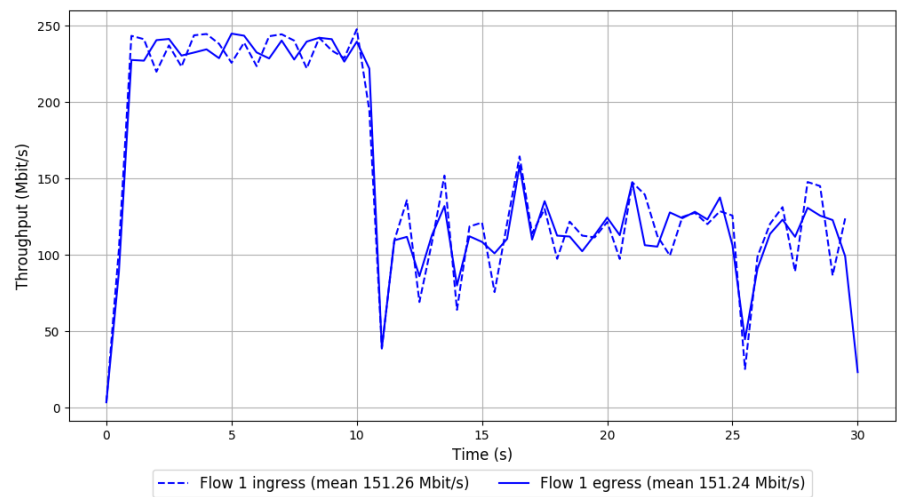
Average throughput: 151.24 Mbit/s

95th percentile per-packet one-way delay: 61.482 ms

Loss rate: 0.02%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-16 17:14:53

End at: 2018-01-16 17:15:23

# Below is generated by plot.py at 2018-01-16 21:02:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 134.97 Mbit/s

95th percentile per-packet one-way delay: 63.483 ms

Loss rate: 0.08%

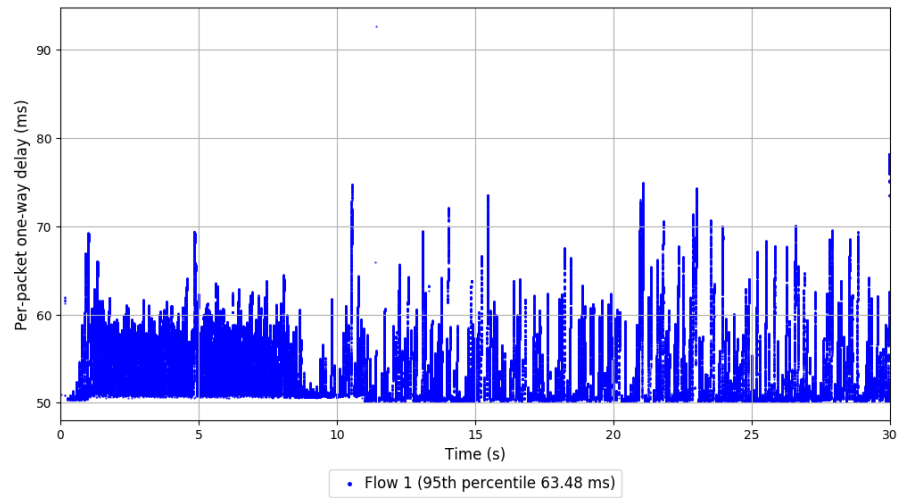
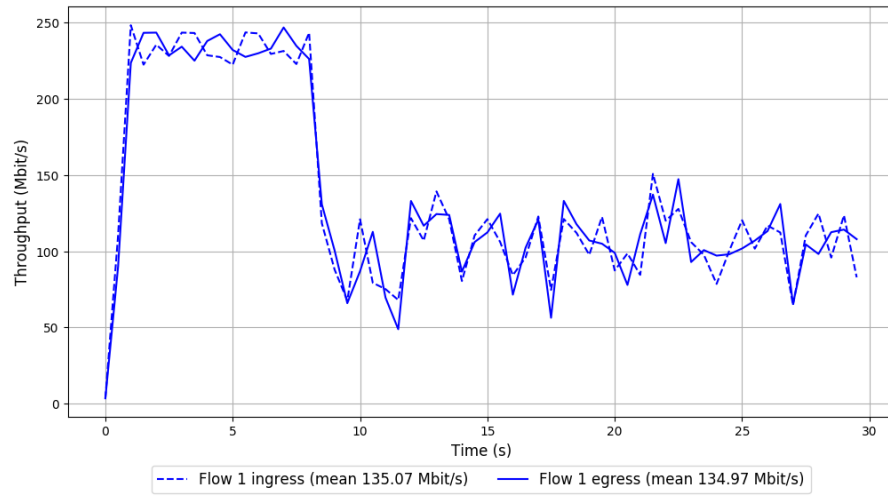
-- Flow 1:

Average throughput: 134.97 Mbit/s

95th percentile per-packet one-way delay: 63.483 ms

Loss rate: 0.08%

## Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-16 17:29:08

End at: 2018-01-16 17:29:38

# Below is generated by plot.py at 2018-01-16 21:04:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.22 Mbit/s

95th percentile per-packet one-way delay: 61.898 ms

Loss rate: 0.06%

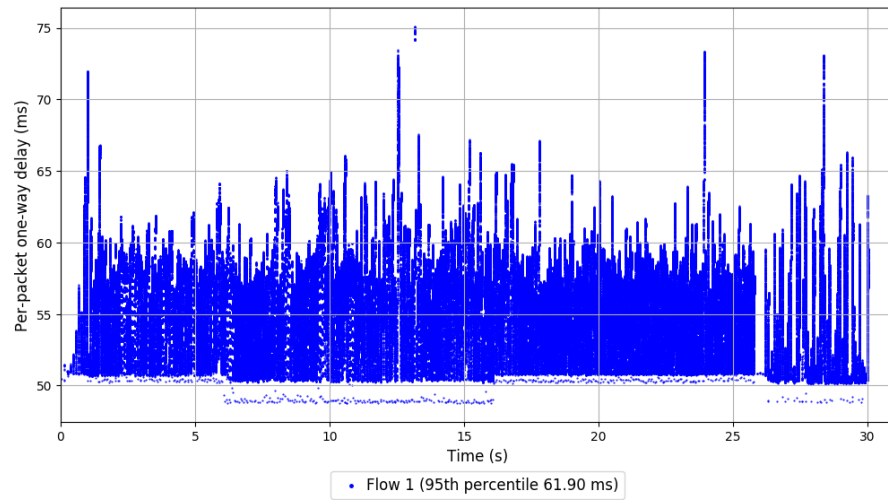
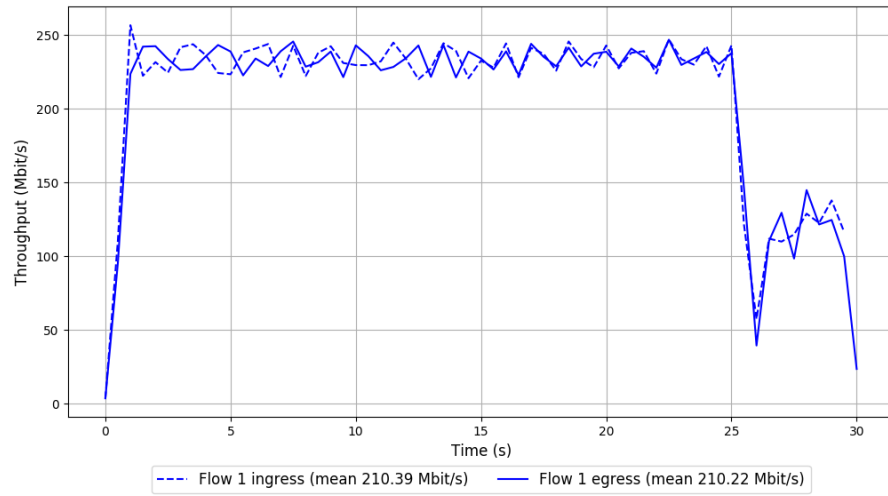
-- Flow 1:

Average throughput: 210.22 Mbit/s

95th percentile per-packet one-way delay: 61.898 ms

Loss rate: 0.06%

### Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-16 17:43:19

End at: 2018-01-16 17:43:49

# Below is generated by plot.py at 2018-01-16 21:04:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 159.76 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.00%

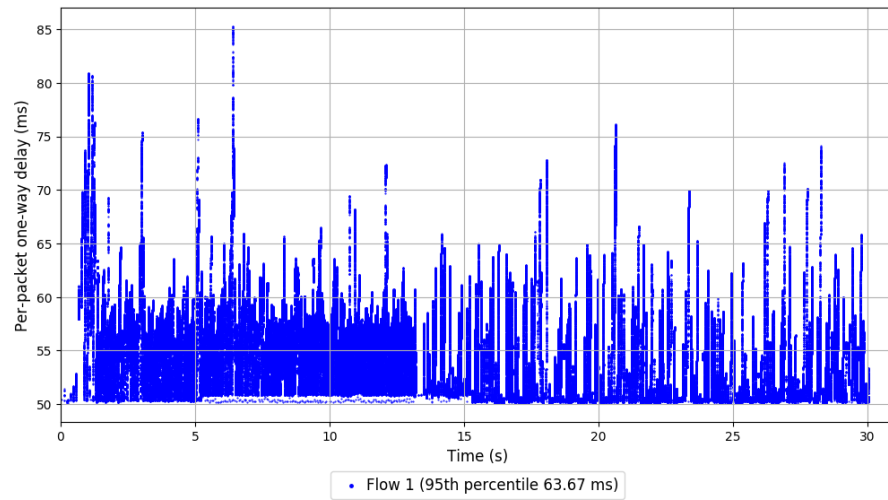
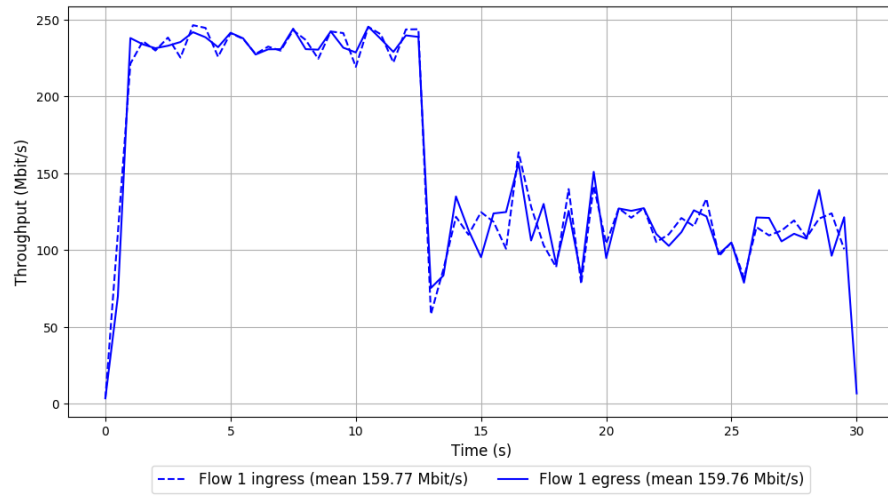
-- Flow 1:

Average throughput: 159.76 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.00%

#### Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-16 17:57:22

End at: 2018-01-16 17:57:52

# Below is generated by plot.py at 2018-01-16 21:04:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 149.55 Mbit/s

95th percentile per-packet one-way delay: 61.345 ms

Loss rate: 0.08%

-- Flow 1:

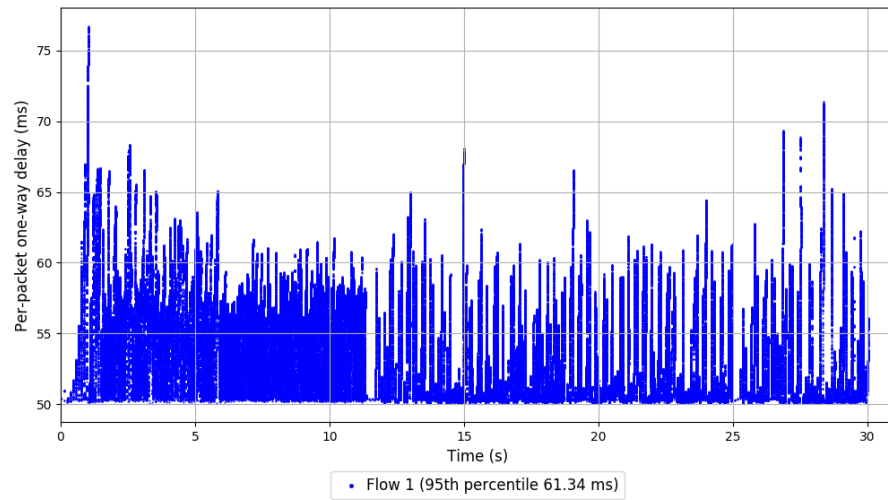
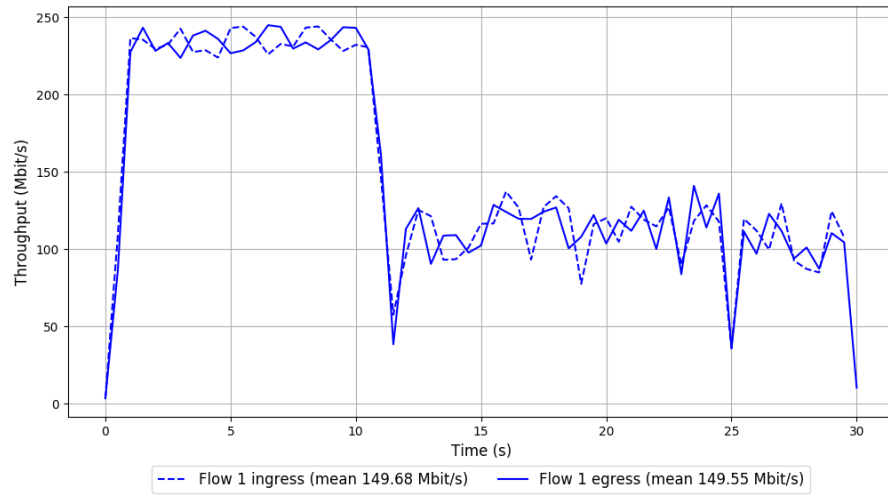
Average throughput: 149.55 Mbit/s

95th percentile per-packet one-way delay: 61.345 ms

Loss rate: 0.08%



### Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-16 18:11:08

End at: 2018-01-16 18:11:38

# Below is generated by plot.py at 2018-01-16 21:04:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 117.83 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.23%

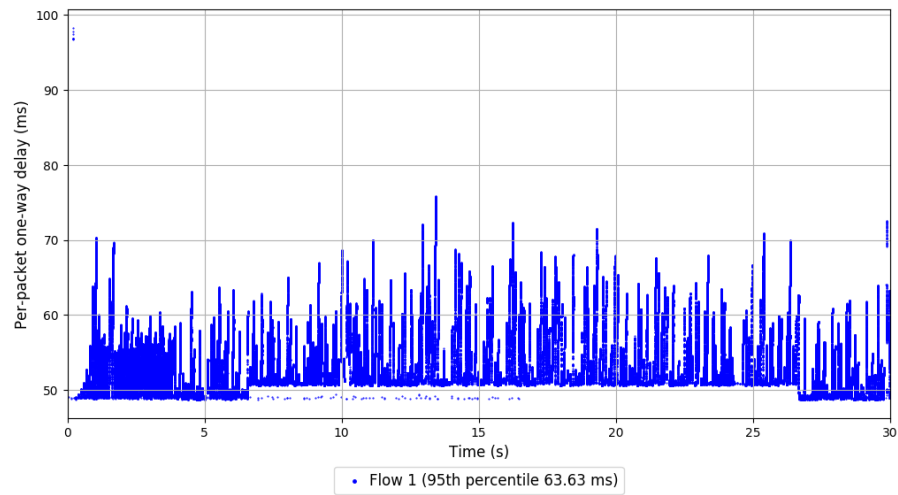
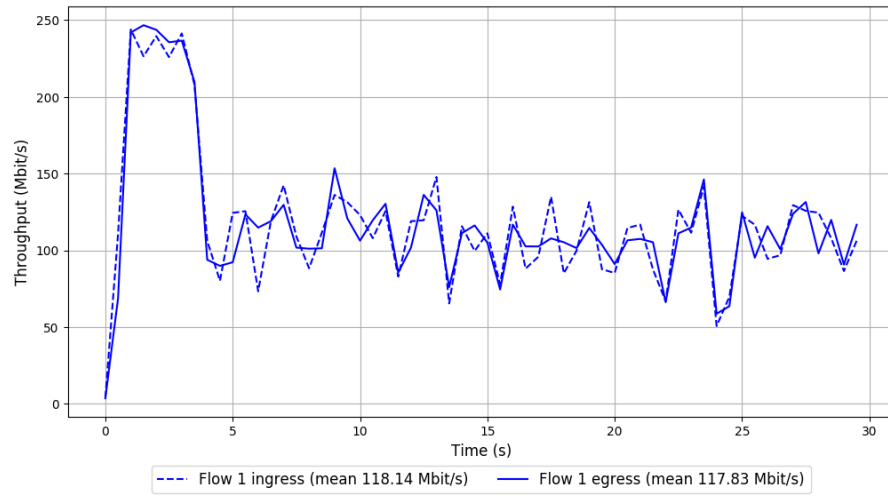
-- Flow 1:

Average throughput: 117.83 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.23%

## Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-16 18:25:13

End at: 2018-01-16 18:25:43

# Below is generated by plot.py at 2018-01-16 21:04:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 149.46 Mbit/s

95th percentile per-packet one-way delay: 61.478 ms

Loss rate: 0.00%

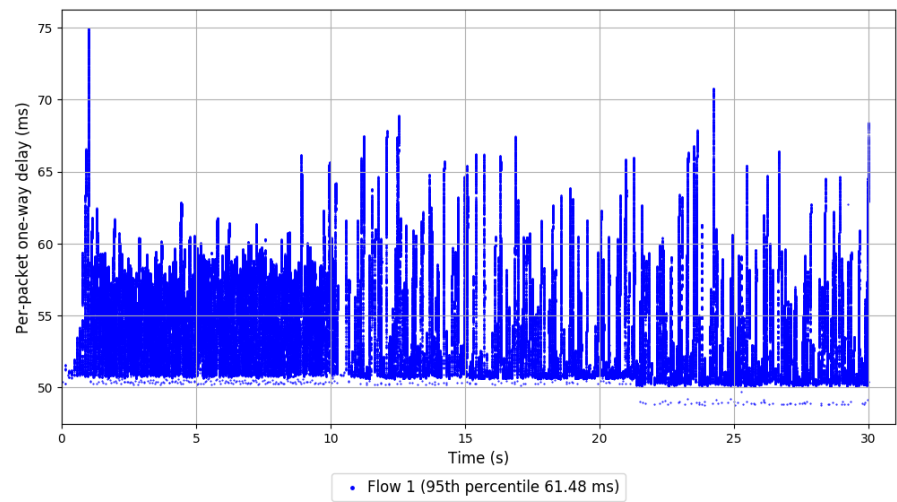
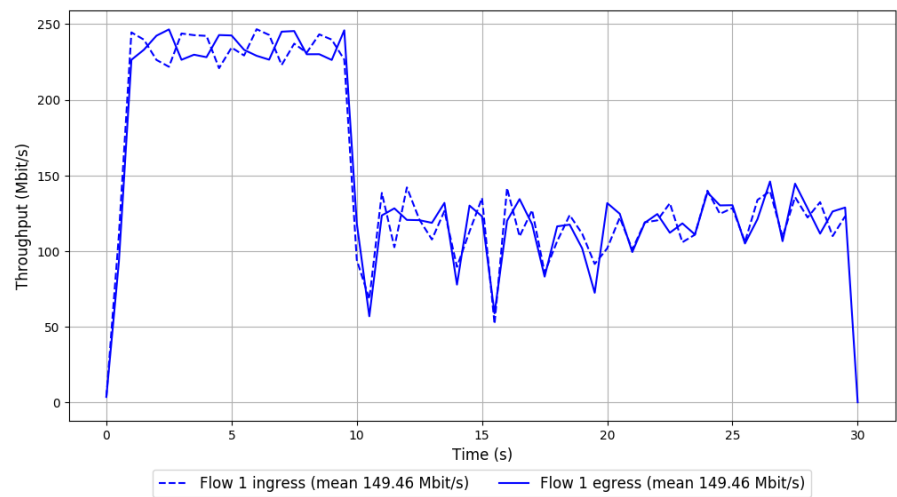
-- Flow 1:

Average throughput: 149.46 Mbit/s

95th percentile per-packet one-way delay: 61.478 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-16 18:39:06

End at: 2018-01-16 18:39:36

# Below is generated by plot.py at 2018-01-16 21:04:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 154.61 Mbit/s

95th percentile per-packet one-way delay: 62.005 ms

Loss rate: 0.00%

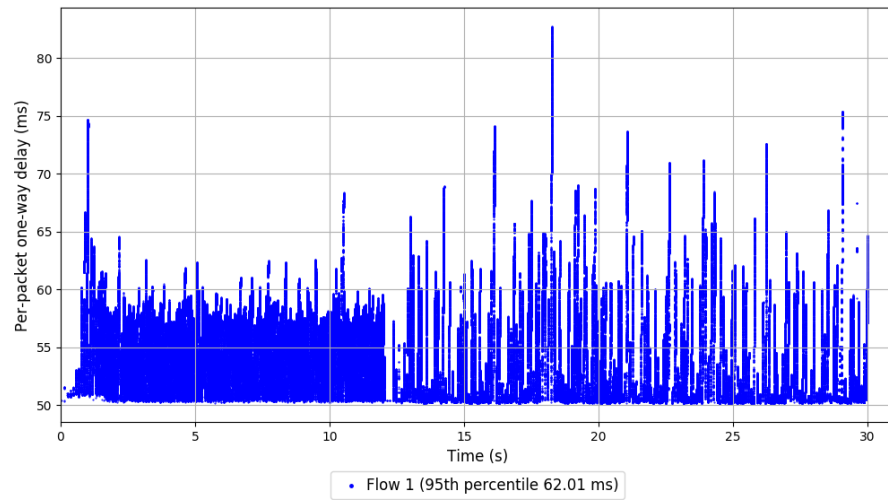
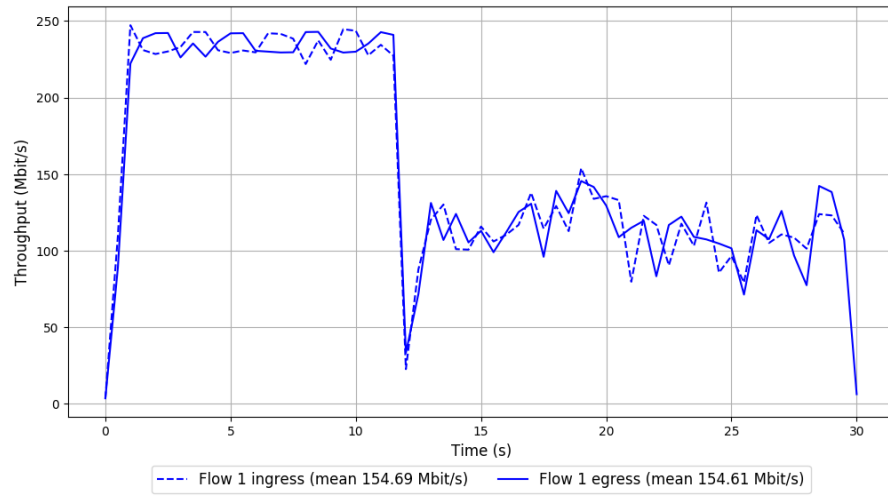
-- Flow 1:

Average throughput: 154.61 Mbit/s

95th percentile per-packet one-way delay: 62.005 ms

Loss rate: 0.00%

## Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-16 18:53:13

End at: 2018-01-16 18:53:43

# Below is generated by plot.py at 2018-01-16 21:04:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 150.36 Mbit/s

95th percentile per-packet one-way delay: 62.524 ms

Loss rate: 0.05%

-- Flow 1:

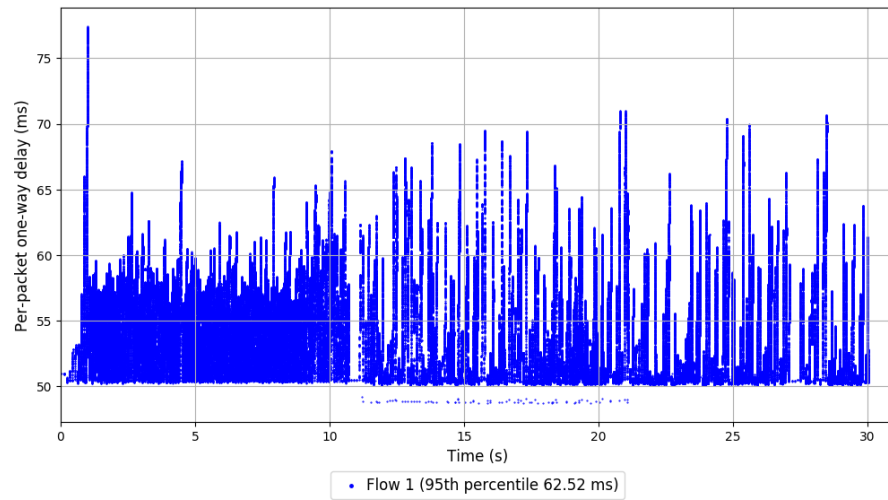
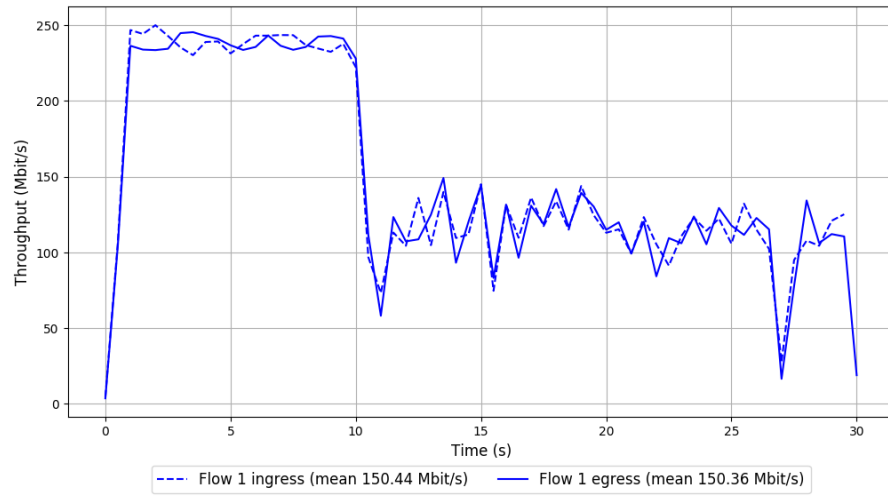
Average throughput: 150.36 Mbit/s

95th percentile per-packet one-way delay: 62.524 ms

Loss rate: 0.05%



### Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-16 19:07:25

End at: 2018-01-16 19:07:55

# Below is generated by plot.py at 2018-01-16 21:05:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.27 Mbit/s

95th percentile per-packet one-way delay: 61.929 ms

Loss rate: 0.12%

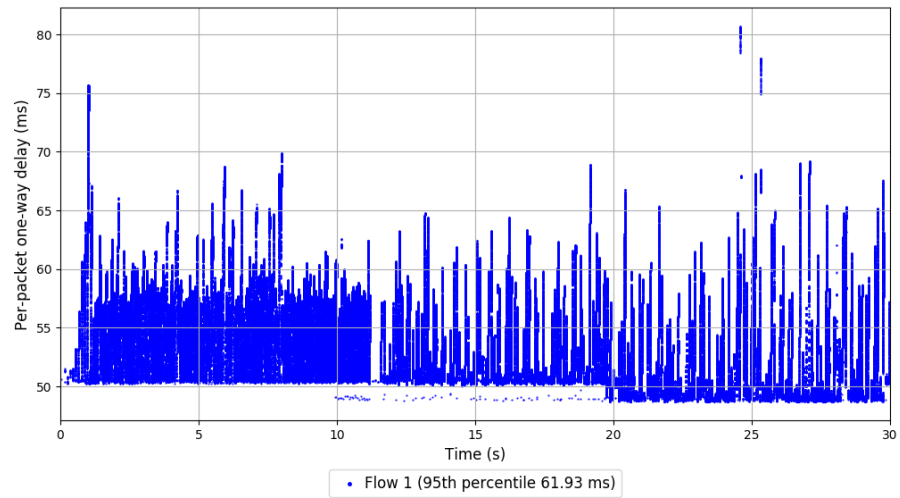
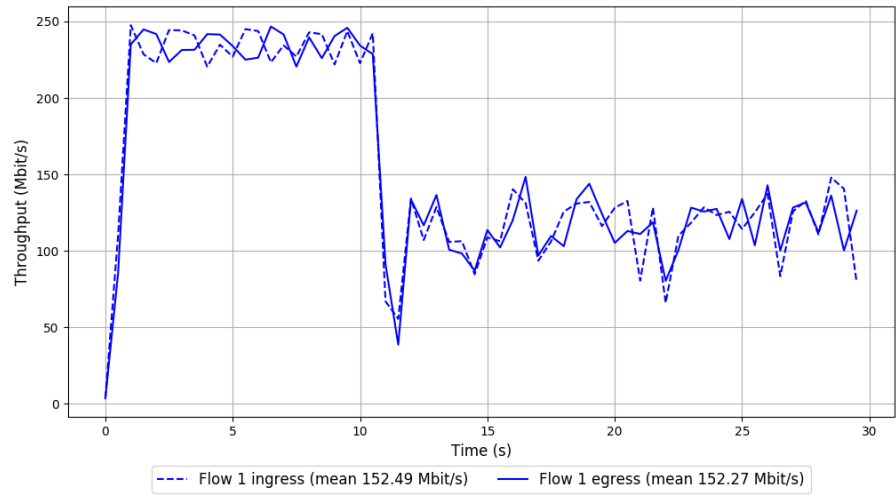
-- Flow 1:

Average throughput: 152.27 Mbit/s

95th percentile per-packet one-way delay: 61.929 ms

Loss rate: 0.12%

# Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

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

End at: 2018-01-16 16:58:50

# Below is generated by plot.py at 2018-01-16 21:06:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.88 Mbit/s

95th percentile per-packet one-way delay: 61.957 ms

Loss rate: 0.01%

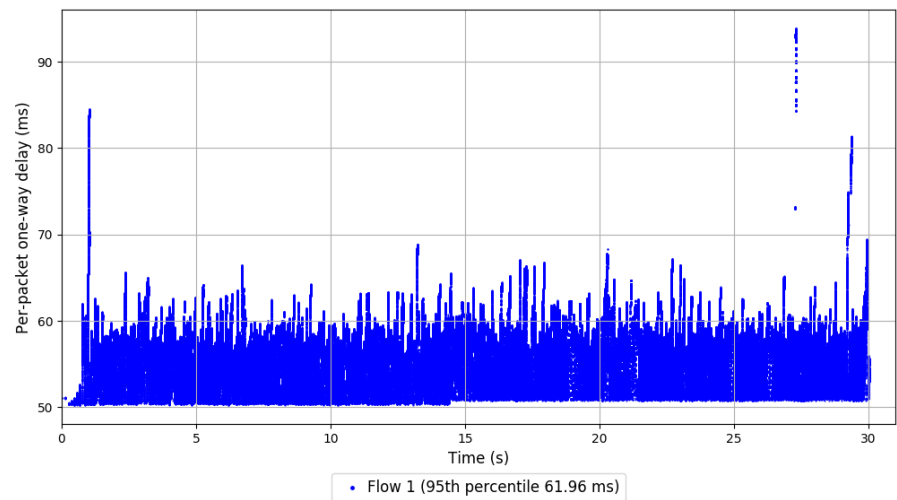
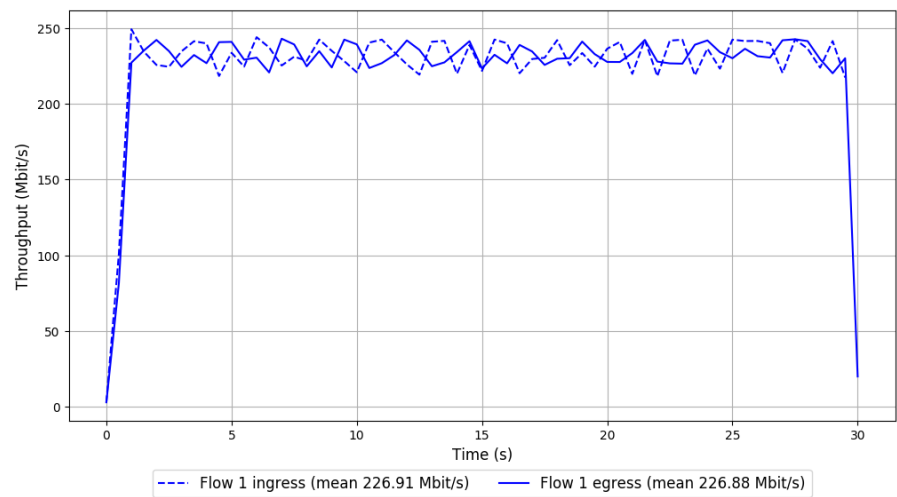
-- Flow 1:

Average throughput: 226.88 Mbit/s

95th percentile per-packet one-way delay: 61.957 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-16 17:12:40

End at: 2018-01-16 17:13:10

# Below is generated by plot.py at 2018-01-16 21:06:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 139.26 Mbit/s

95th percentile per-packet one-way delay: 55.342 ms

Loss rate: 0.08%

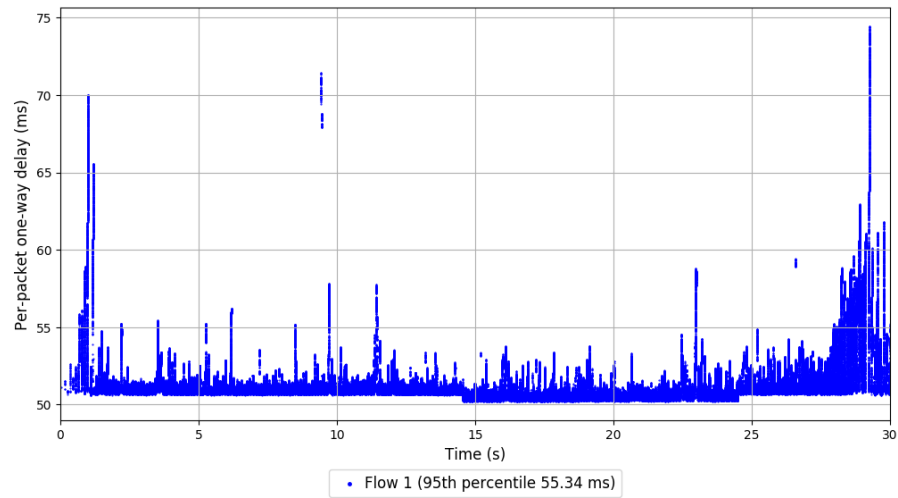
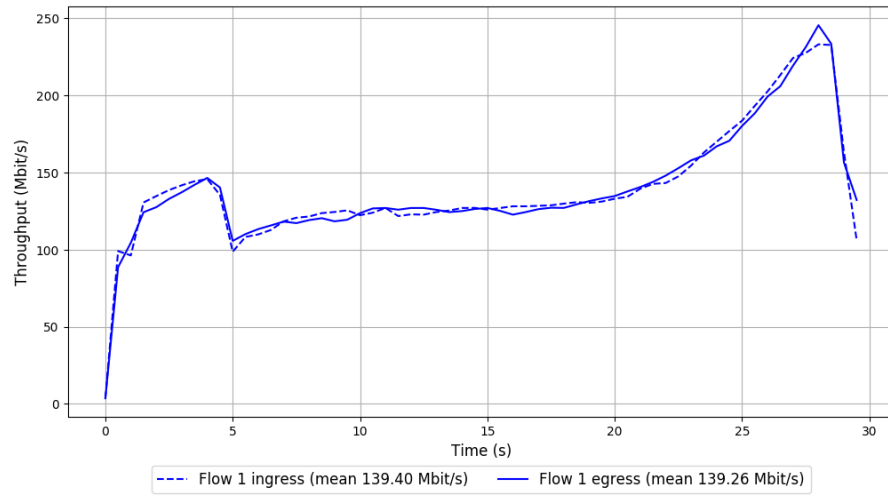
-- Flow 1:

Average throughput: 139.26 Mbit/s

95th percentile per-packet one-way delay: 55.342 ms

Loss rate: 0.08%

## Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-16 17:26:57

End at: 2018-01-16 17:27:27

# Below is generated by plot.py at 2018-01-16 21:06:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 142.44 Mbit/s

95th percentile per-packet one-way delay: 62.020 ms

Loss rate: 0.06%

-- Flow 1:

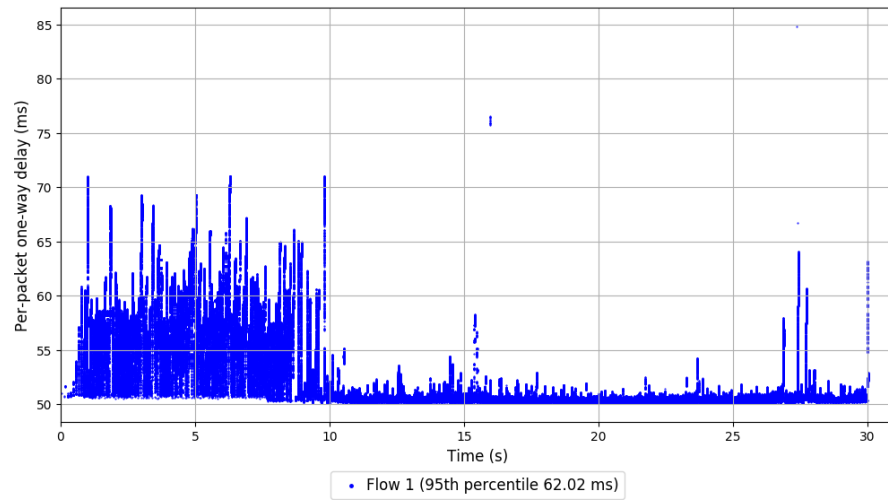
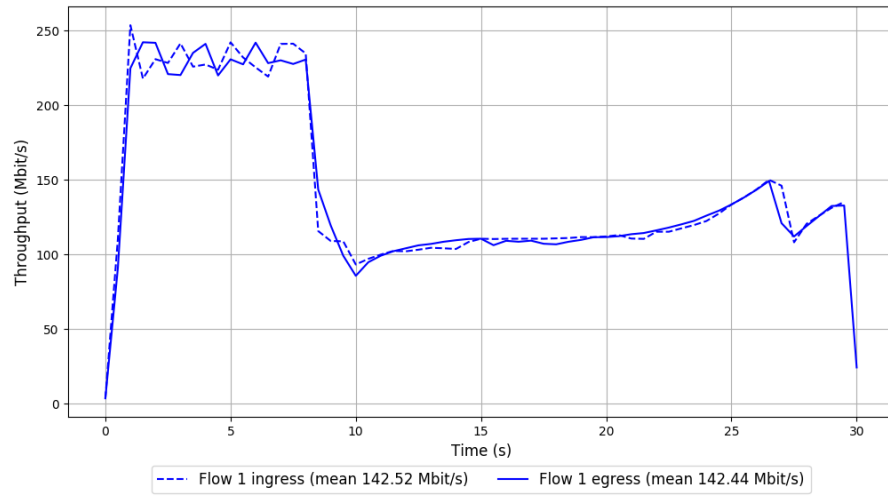
Average throughput: 142.44 Mbit/s

95th percentile per-packet one-way delay: 62.020 ms

Loss rate: 0.06%



### Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-16 17:41:03

End at: 2018-01-16 17:41:33

# Below is generated by plot.py at 2018-01-16 21:06:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 200.50 Mbit/s

95th percentile per-packet one-way delay: 59.589 ms

Loss rate: 0.00%

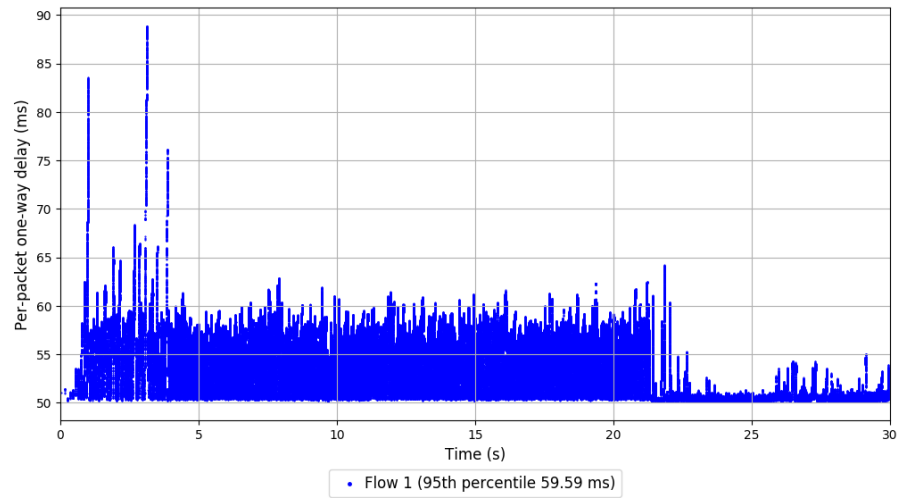
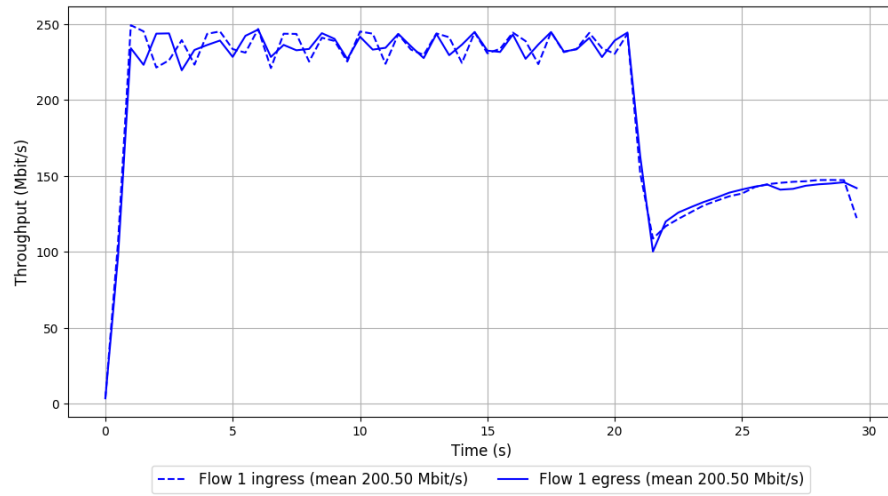
-- Flow 1:

Average throughput: 200.50 Mbit/s

95th percentile per-packet one-way delay: 59.589 ms

Loss rate: 0.00%

#### Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-16 17:55:10

End at: 2018-01-16 17:55:40

# Below is generated by plot.py at 2018-01-16 21:06:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 138.82 Mbit/s

95th percentile per-packet one-way delay: 58.024 ms

Loss rate: 0.27%

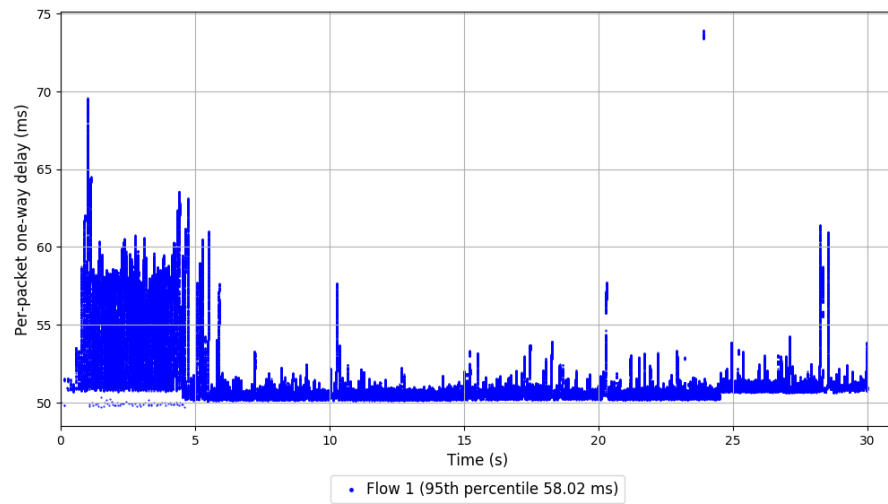
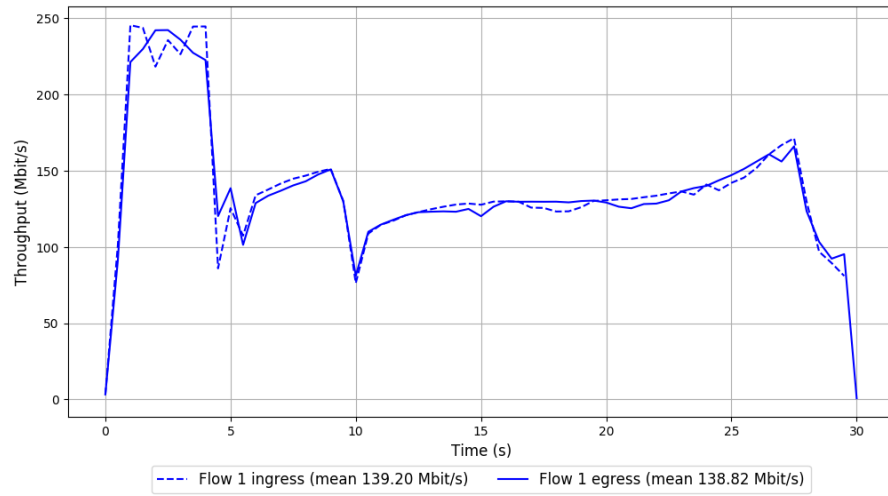
-- Flow 1:

Average throughput: 138.82 Mbit/s

95th percentile per-packet one-way delay: 58.024 ms

Loss rate: 0.27%

### Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-16 18:08:52

End at: 2018-01-16 18:09:22

# Below is generated by plot.py at 2018-01-16 21:08:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 219.56 Mbit/s

95th percentile per-packet one-way delay: 61.971 ms

Loss rate: 0.21%

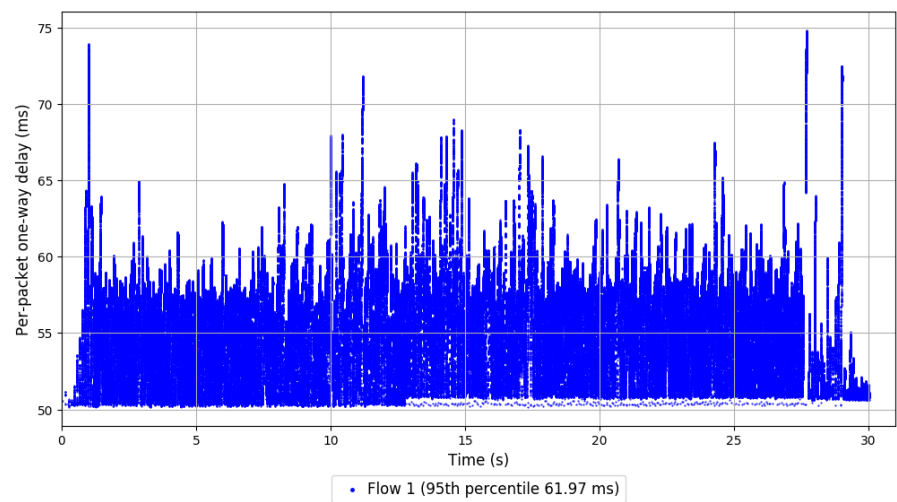
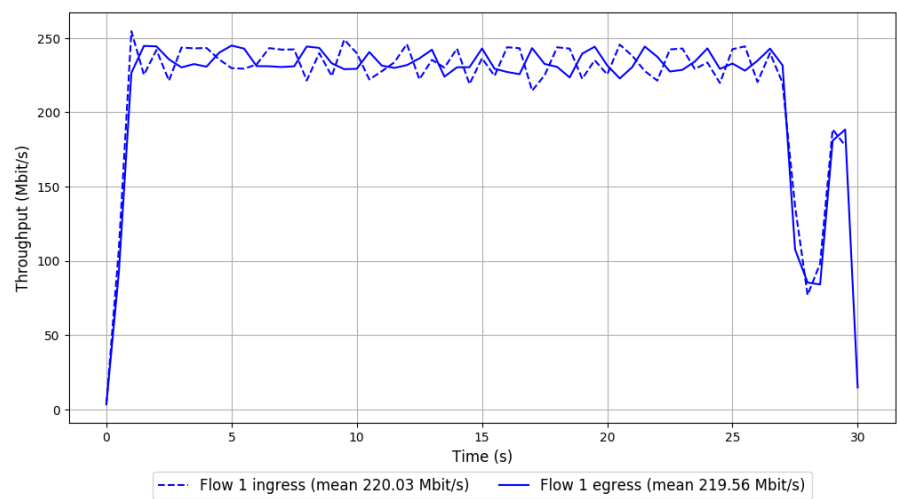
-- Flow 1:

Average throughput: 219.56 Mbit/s

95th percentile per-packet one-way delay: 61.971 ms

Loss rate: 0.21%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-16 18:22:57

End at: 2018-01-16 18:23:27

# Below is generated by plot.py at 2018-01-16 21:08:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.73 Mbit/s

95th percentile per-packet one-way delay: 61.920 ms

Loss rate: 0.18%

-- Flow 1:

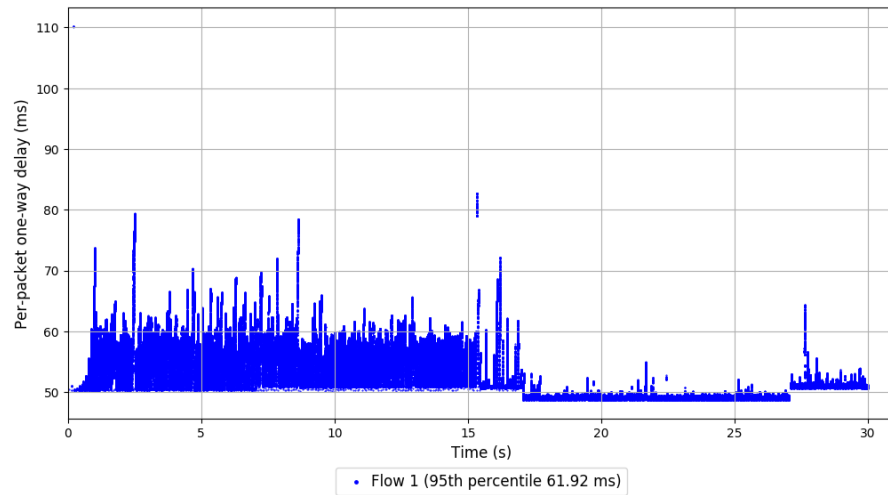
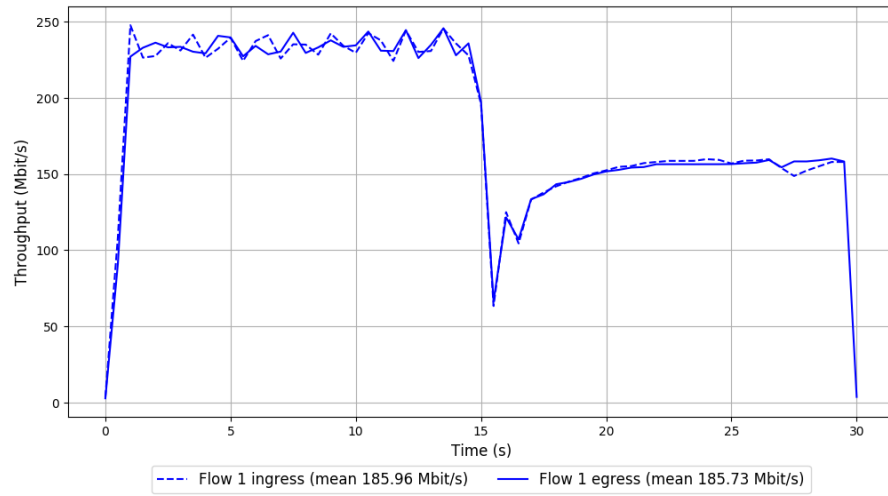
Average throughput: 185.73 Mbit/s

95th percentile per-packet one-way delay: 61.920 ms

Loss rate: 0.18%



### Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-16 18:36:56

End at: 2018-01-16 18:37:26

# Below is generated by plot.py at 2018-01-16 21:08:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 101.84 Mbit/s

95th percentile per-packet one-way delay: 56.225 ms

Loss rate: 0.30%

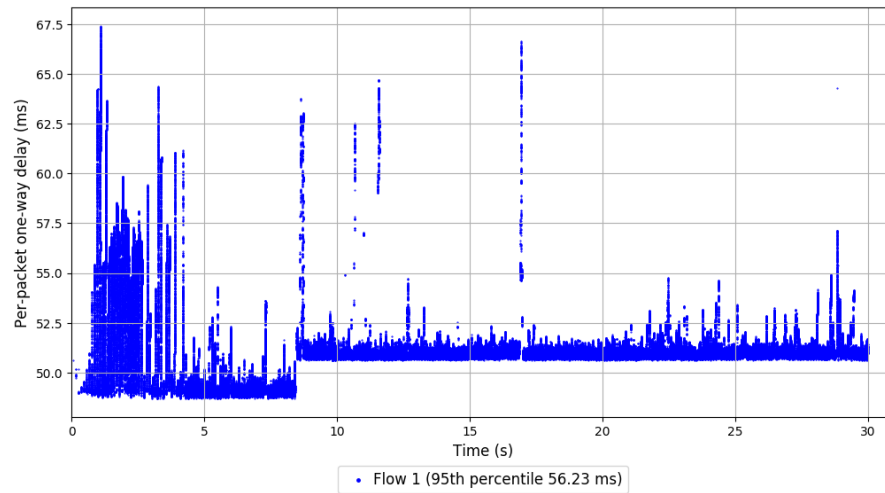
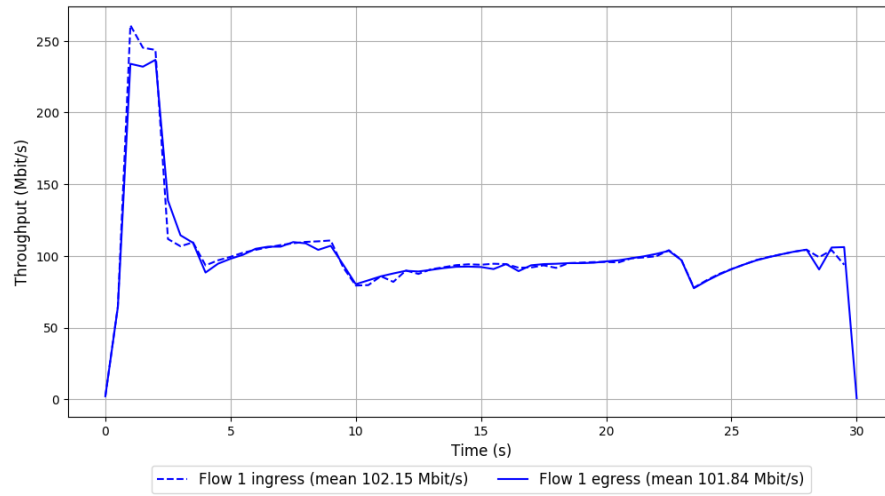
-- Flow 1:

Average throughput: 101.84 Mbit/s

95th percentile per-packet one-way delay: 56.225 ms

Loss rate: 0.30%

## Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-16 18:50:43

End at: 2018-01-16 18:51:13

# Below is generated by plot.py at 2018-01-16 21:08:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 154.82 Mbit/s

95th percentile per-packet one-way delay: 59.727 ms

Loss rate: 0.11%

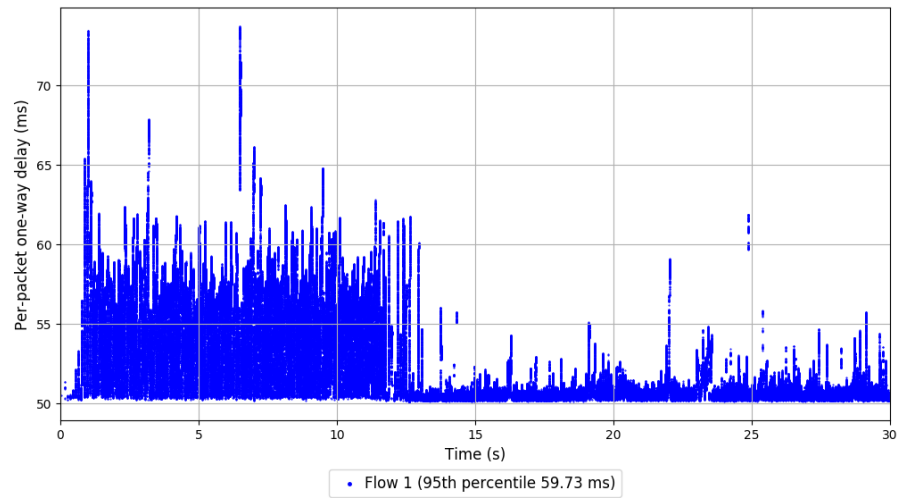
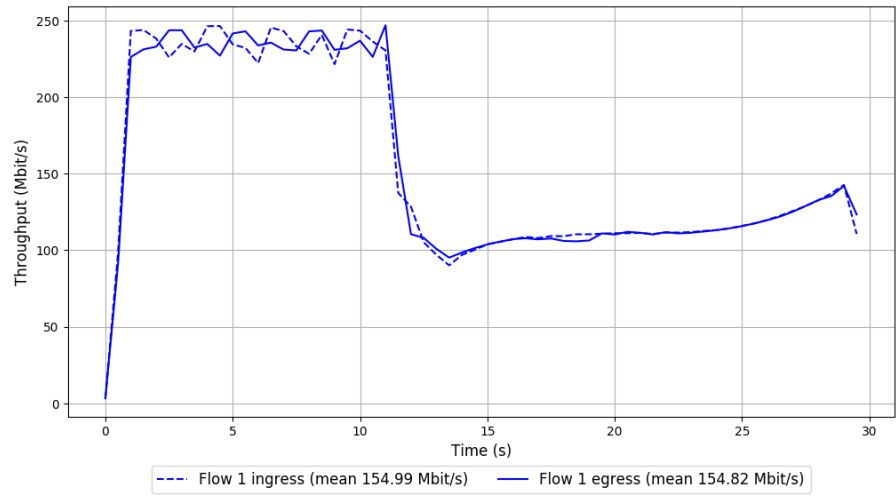
-- Flow 1:

Average throughput: 154.82 Mbit/s

95th percentile per-packet one-way delay: 59.727 ms

Loss rate: 0.11%

### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-16 19:04:56

End at: 2018-01-16 19:05:26

# Below is generated by plot.py at 2018-01-16 21:09:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.27 Mbit/s

95th percentile per-packet one-way delay: 60.980 ms

Loss rate: 0.01%

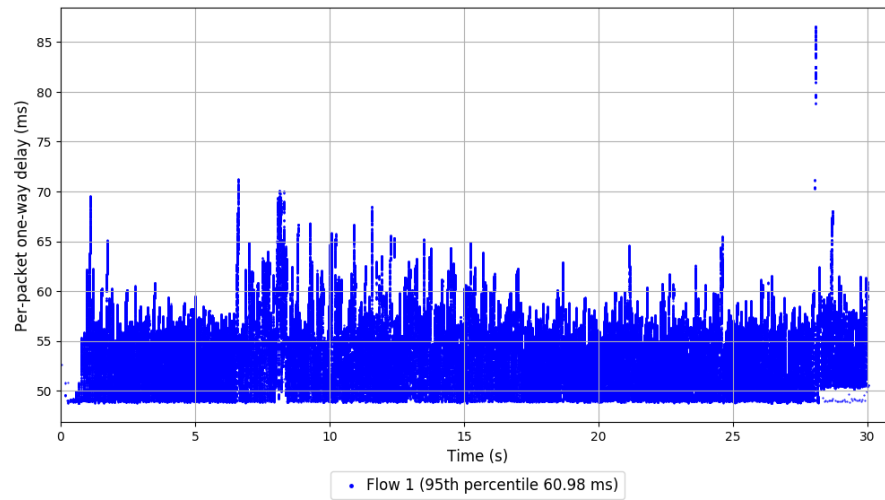
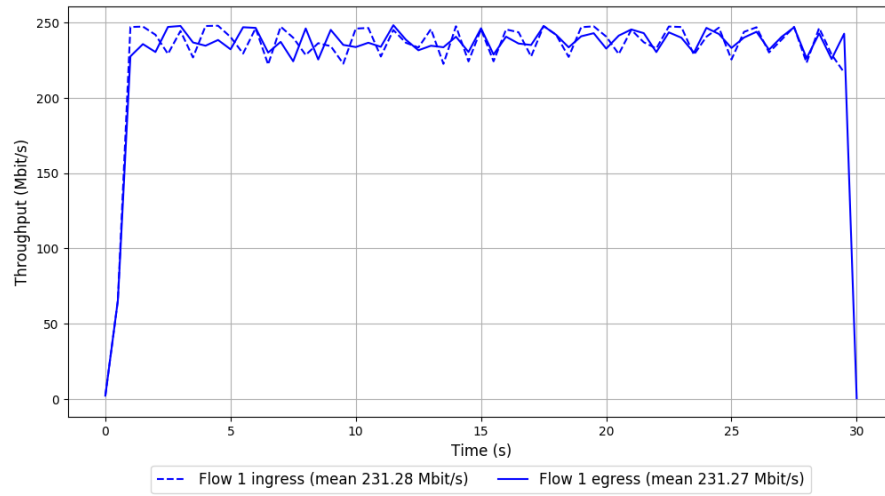
-- Flow 1:

Average throughput: 231.27 Mbit/s

95th percentile per-packet one-way delay: 60.980 ms

Loss rate: 0.01%

### Run 10: Report of TCP Cubic — Data Link



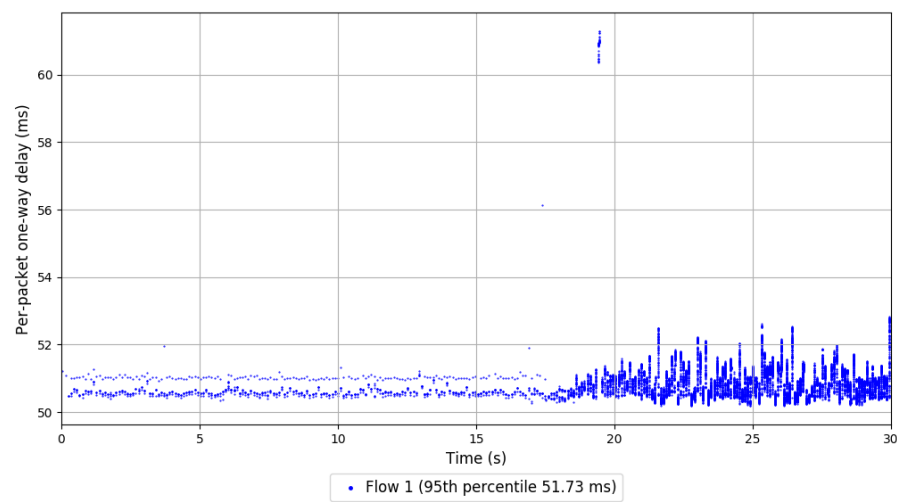
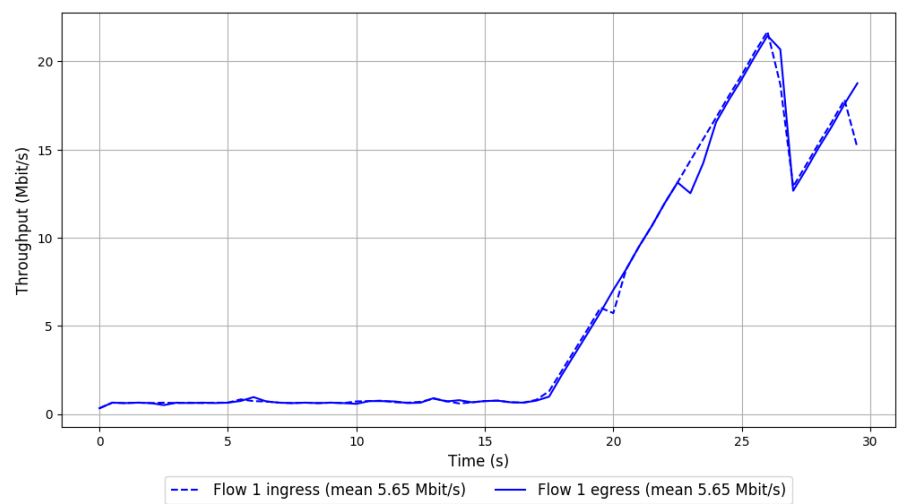
```
Run 1: Statistics of LEDBAT

Start at: 2018-01-16 17:05:18
End at: 2018-01-16 17:05:48

# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 51.731 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 51.731 ms
Loss rate: 0.00%
```



Run 1: Report of LEDBAT — Data Link

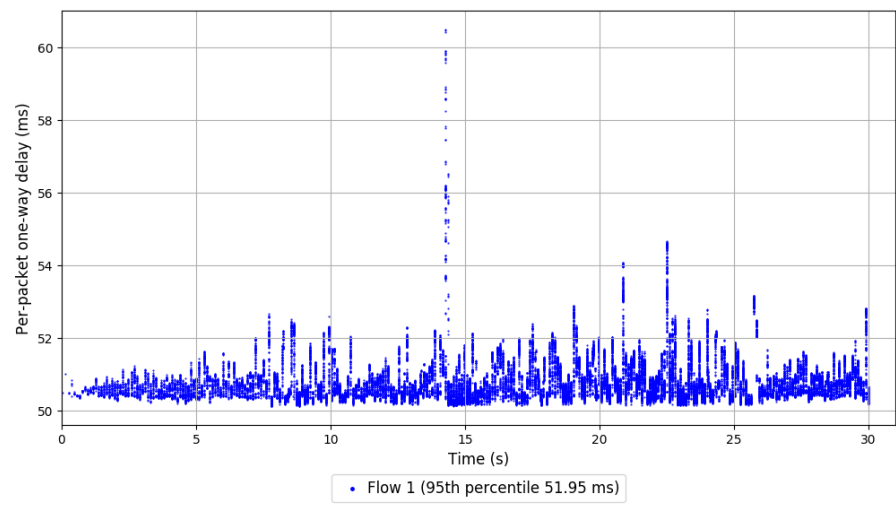
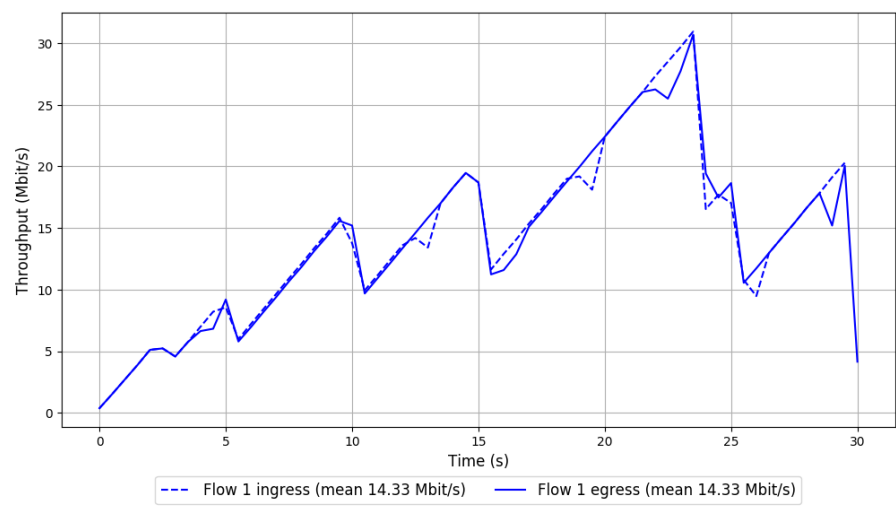


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-16 17:19:42
End at: 2018-01-16 17:20:12

# Below is generated by plot.py at 2018-01-16 21:09:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 51.954 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.33 Mbit/s
95th percentile per-packet one-way delay: 51.954 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-16 17:33:57

End at: 2018-01-16 17:34:27

# Below is generated by plot.py at 2018-01-16 21:09:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 52.100 ms

Loss rate: 0.00%

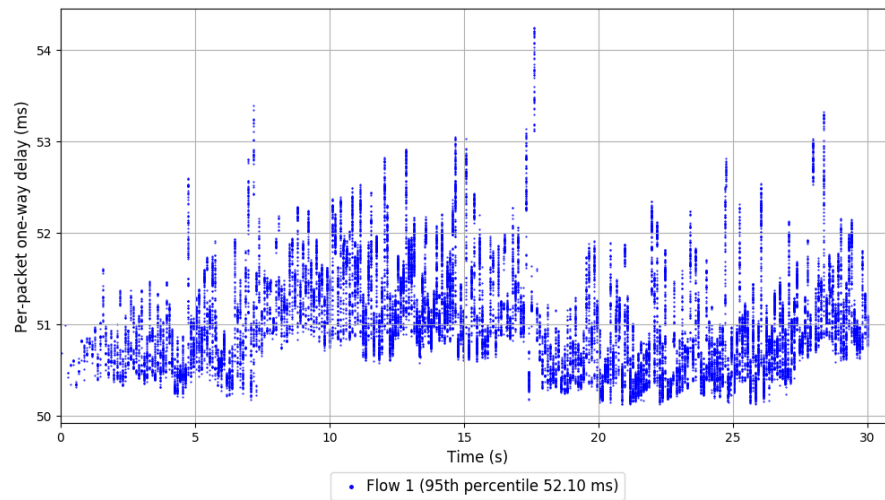
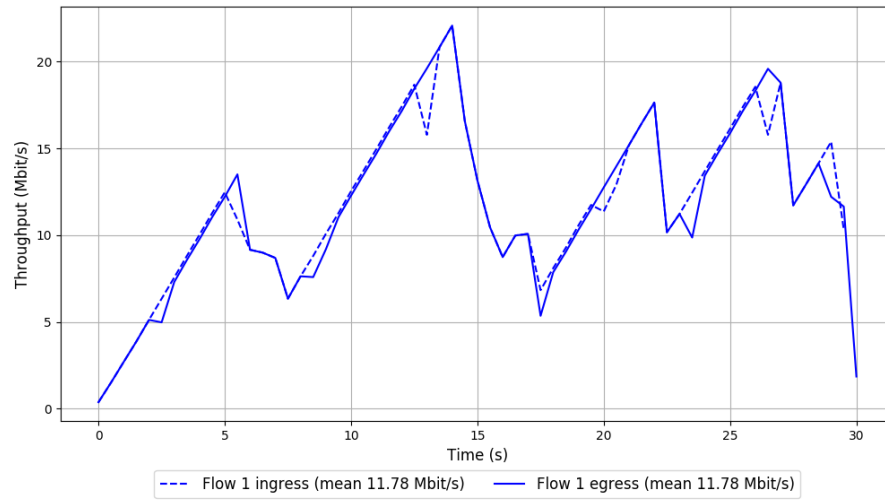
-- Flow 1:

Average throughput: 11.78 Mbit/s

95th percentile per-packet one-way delay: 52.100 ms

Loss rate: 0.00%

### Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-16 17:47:54

End at: 2018-01-16 17:48:24

# Below is generated by plot.py at 2018-01-16 21:09:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 18.00 Mbit/s

95th percentile per-packet one-way delay: 52.489 ms

Loss rate: 0.00%

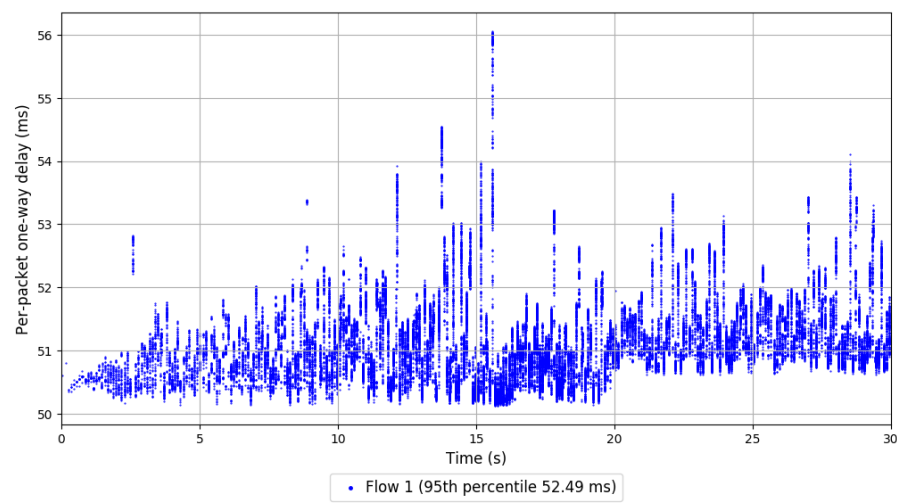
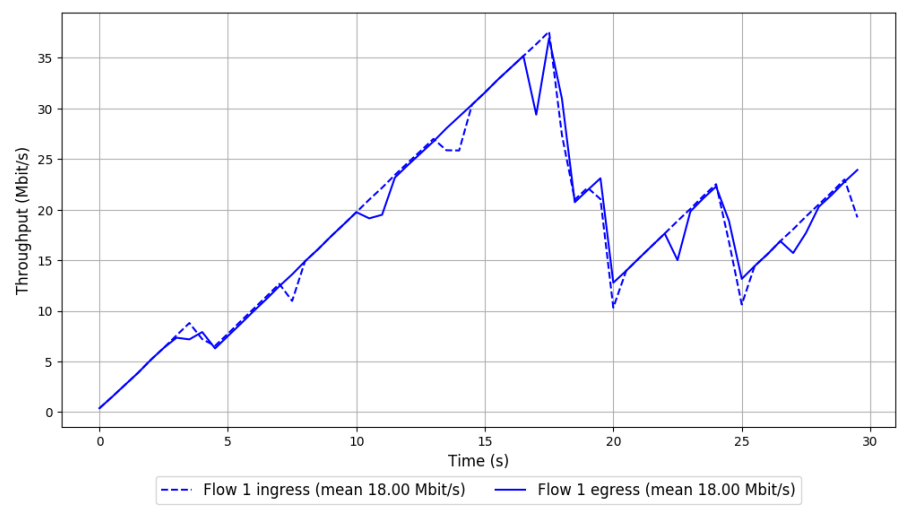
-- Flow 1:

Average throughput: 18.00 Mbit/s

95th percentile per-packet one-way delay: 52.489 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-16 18:01:55

End at: 2018-01-16 18:02:25

# Below is generated by plot.py at 2018-01-16 21:09:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 52.041 ms

Loss rate: 0.25%

-- Flow 1:

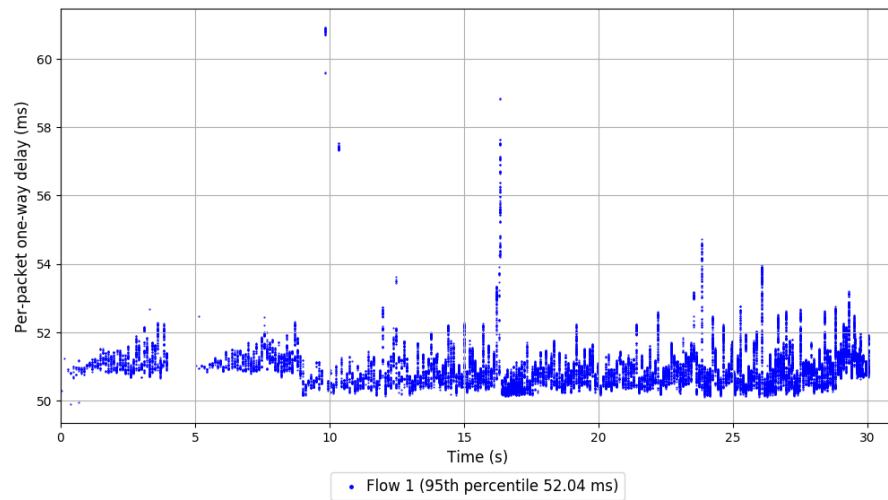
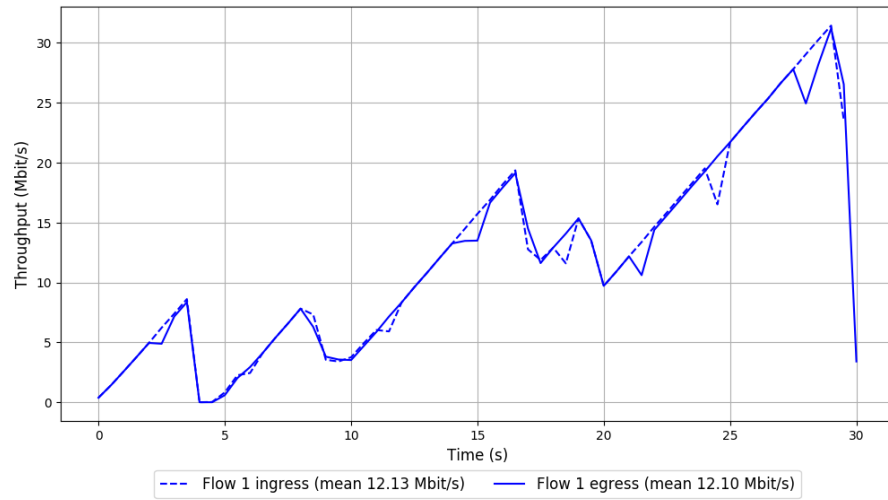
Average throughput: 12.10 Mbit/s

95th percentile per-packet one-way delay: 52.041 ms

Loss rate: 0.25%



### Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-16 18:15:54

End at: 2018-01-16 18:16:24

# Below is generated by plot.py at 2018-01-16 21:09:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 51.925 ms

Loss rate: 0.18%

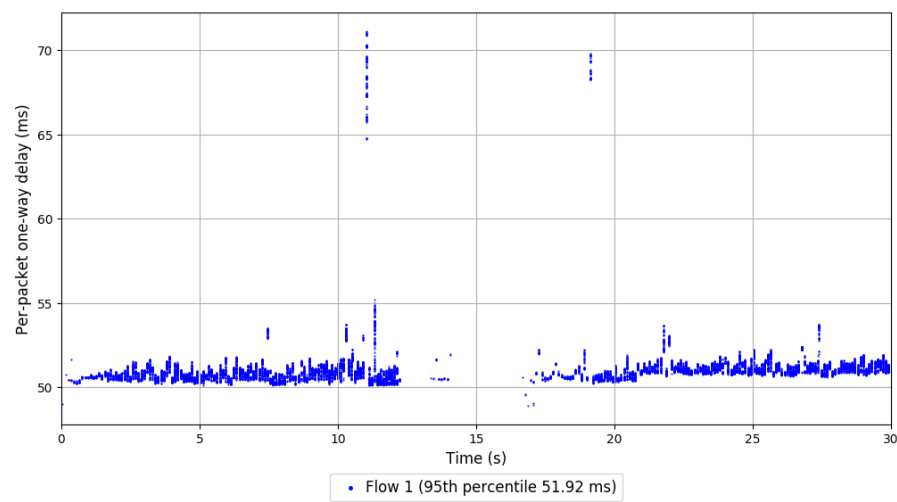
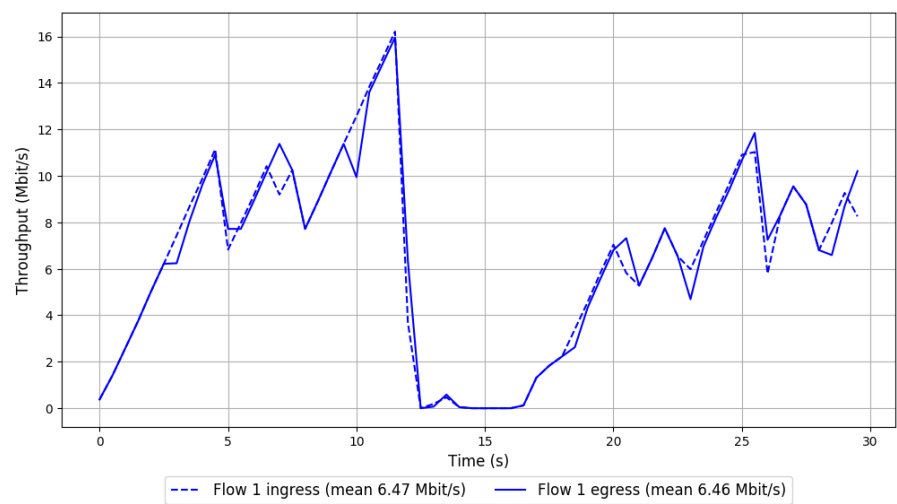
-- Flow 1:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 51.925 ms

Loss rate: 0.18%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-16 18:29:51

End at: 2018-01-16 18:30:21

# Below is generated by plot.py at 2018-01-16 21:09:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 52.207 ms

Loss rate: 0.75%

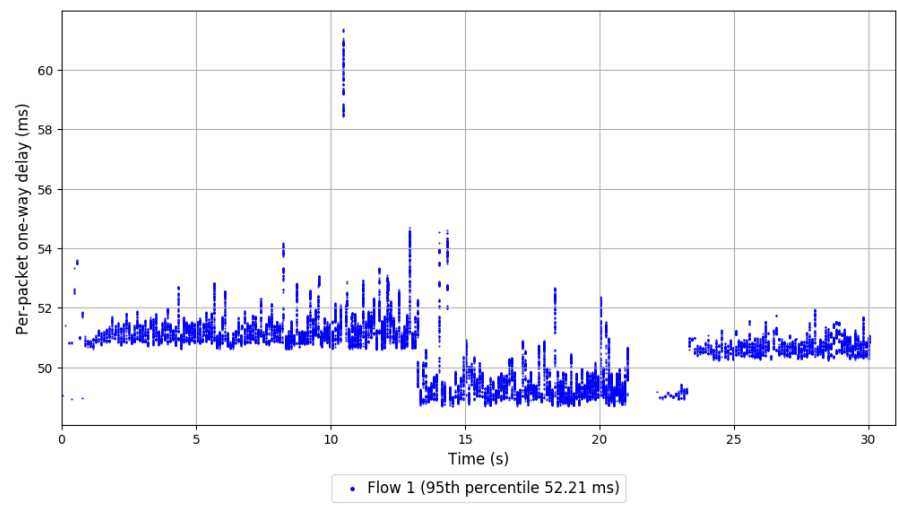
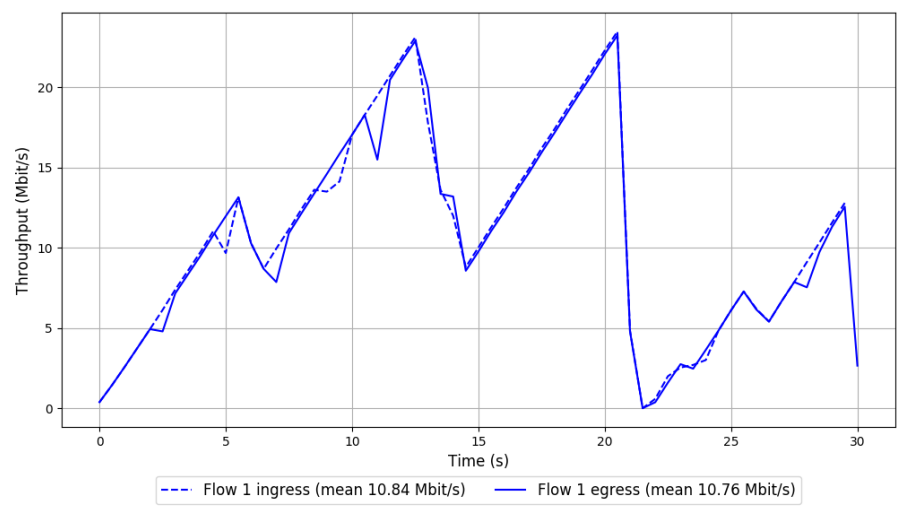
-- Flow 1:

Average throughput: 10.76 Mbit/s

95th percentile per-packet one-way delay: 52.207 ms

Loss rate: 0.75%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-16 18:43:38

End at: 2018-01-16 18:44:08

# Below is generated by plot.py at 2018-01-16 21:09:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.50 Mbit/s

95th percentile per-packet one-way delay: 51.476 ms

Loss rate: 0.00%

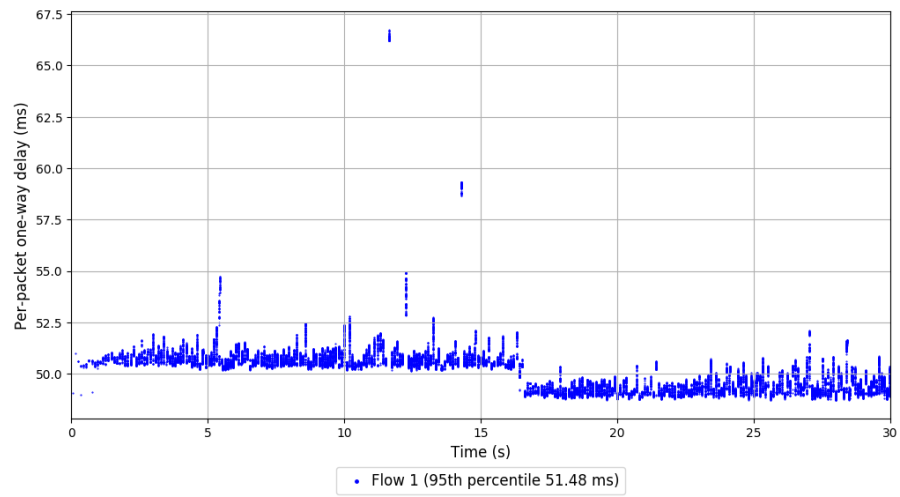
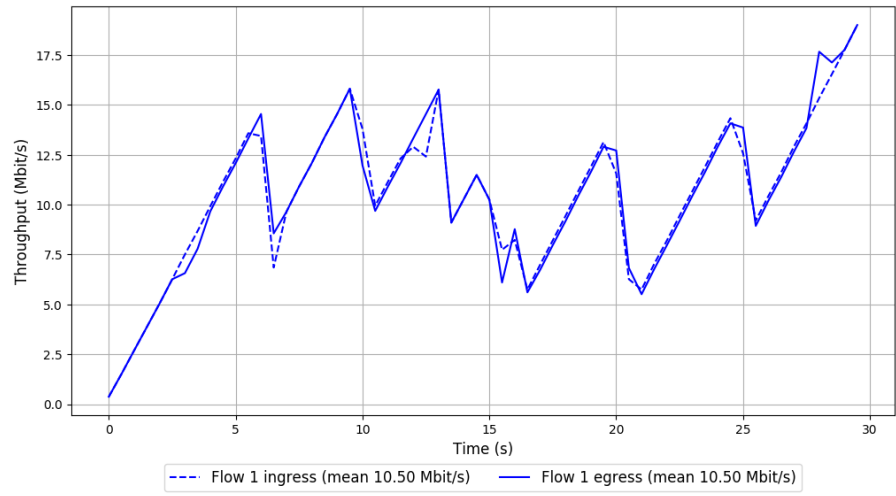
-- Flow 1:

Average throughput: 10.50 Mbit/s

95th percentile per-packet one-way delay: 51.476 ms

Loss rate: 0.00%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-16 18:57:57

End at: 2018-01-16 18:58:27

# Below is generated by plot.py at 2018-01-16 21:09:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.28 Mbit/s

95th percentile per-packet one-way delay: 51.290 ms

Loss rate: 0.34%

-- Flow 1:

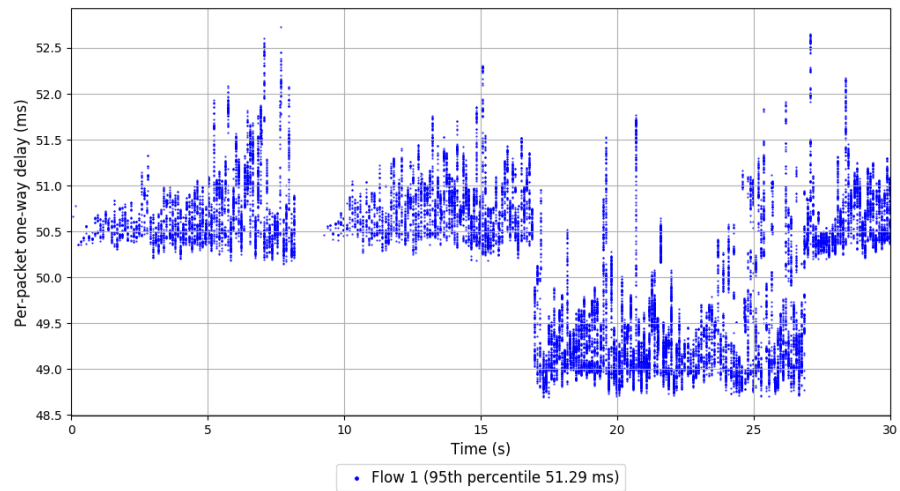
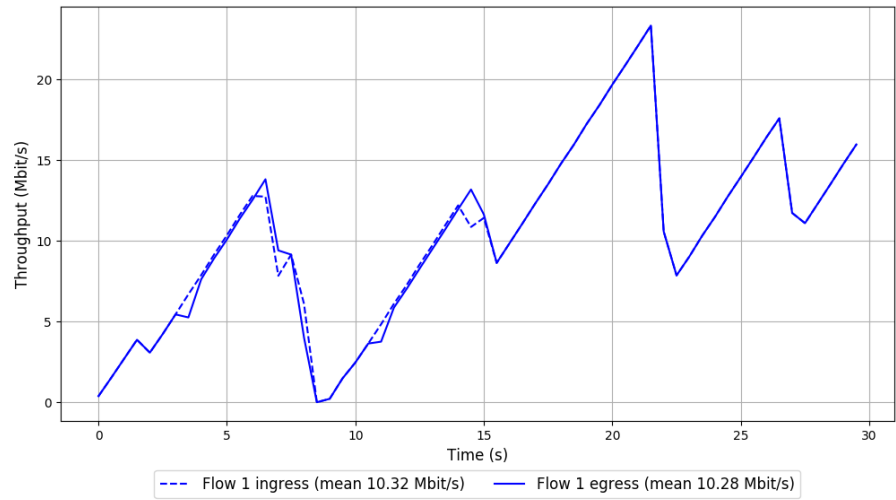
Average throughput: 10.28 Mbit/s

95th percentile per-packet one-way delay: 51.290 ms

Loss rate: 0.34%



### Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-16 19:12:11

End at: 2018-01-16 19:12:41

# Below is generated by plot.py at 2018-01-16 21:09:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 51.053 ms

Loss rate: 0.40%

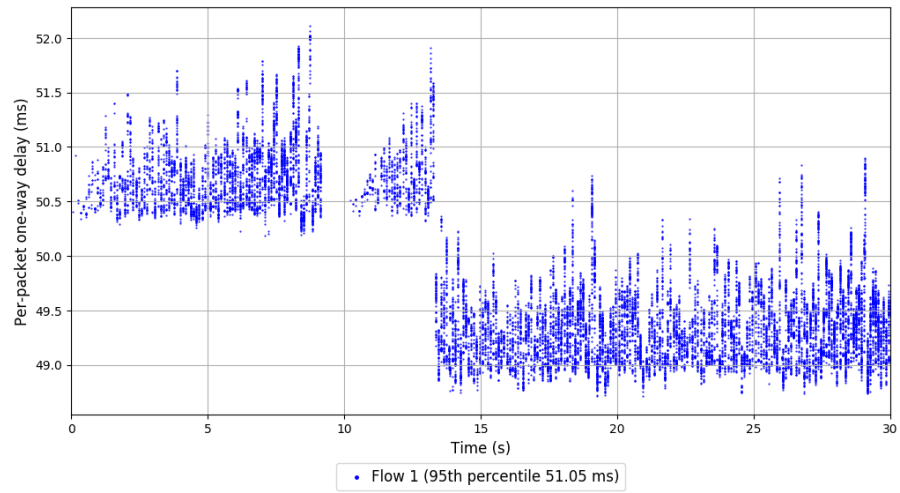
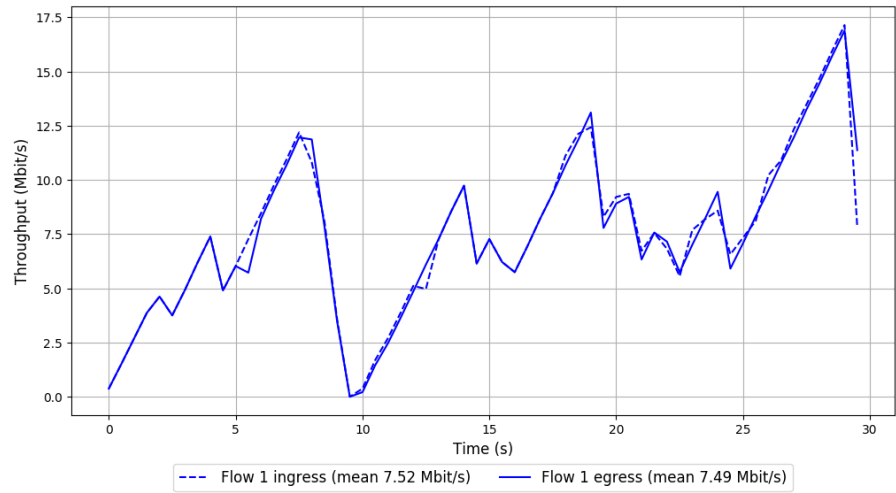
-- Flow 1:

Average throughput: 7.49 Mbit/s

95th percentile per-packet one-way delay: 51.053 ms

Loss rate: 0.40%

## Run 10: Report of LEDBAT — Data Link

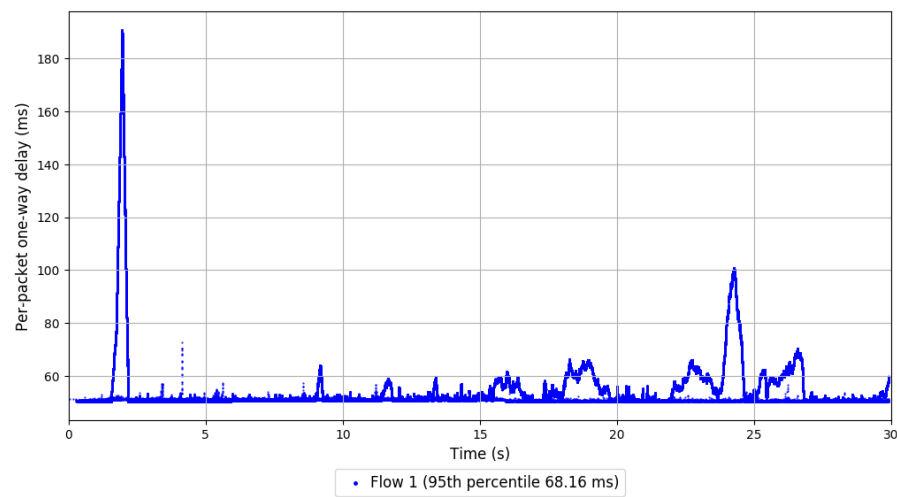
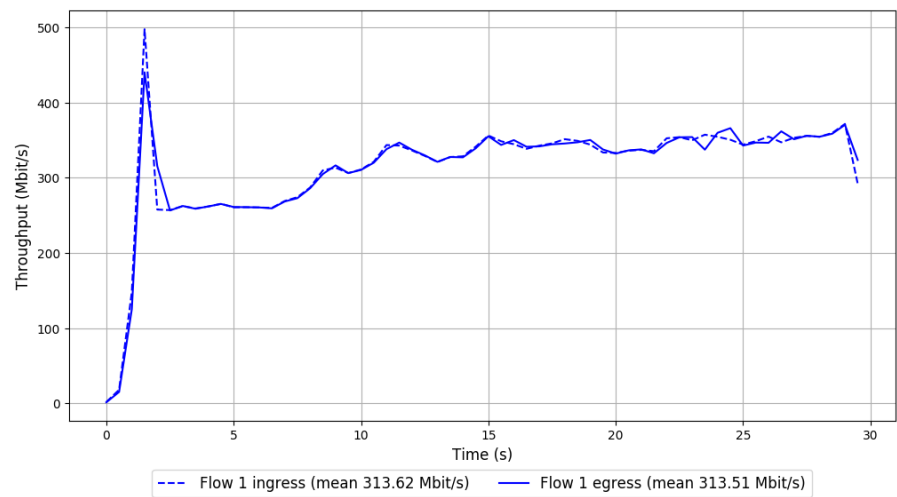


```
Run 1: Statistics of PCC

Start at: 2018-01-16 16:59:08
End at: 2018-01-16 16:59:38

# Below is generated by plot.py at 2018-01-16 21:12:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 313.51 Mbit/s
95th percentile per-packet one-way delay: 68.159 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 313.51 Mbit/s
95th percentile per-packet one-way delay: 68.159 ms
Loss rate: 0.04%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-16 17:13:24

End at: 2018-01-16 17:13:54

# Below is generated by plot.py at 2018-01-16 21:13:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 384.08 Mbit/s

95th percentile per-packet one-way delay: 206.783 ms

Loss rate: 0.59%

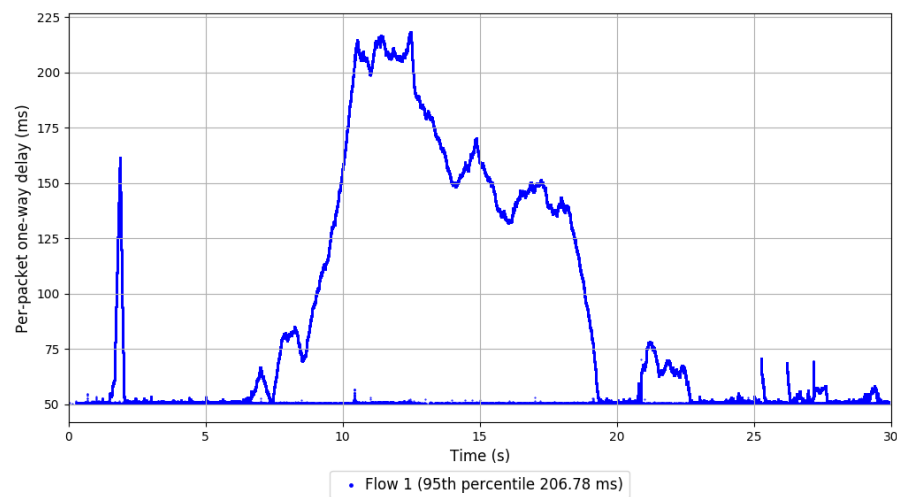
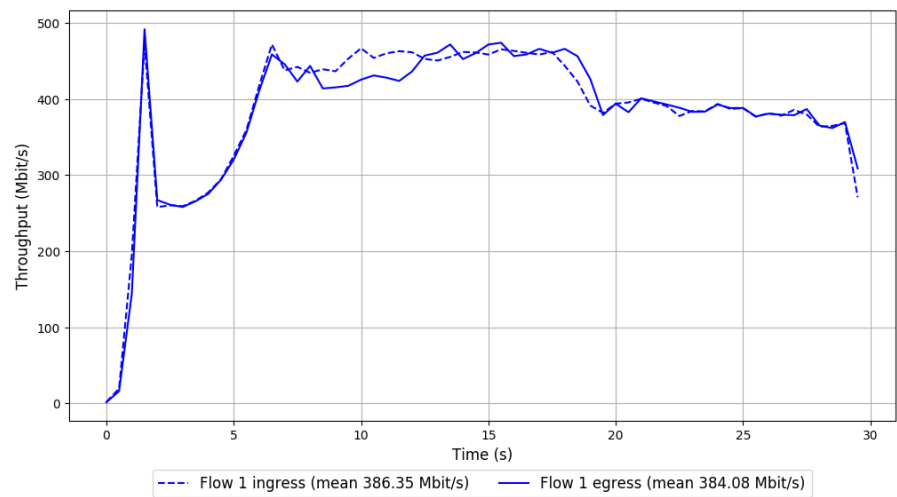
-- Flow 1:

Average throughput: 384.08 Mbit/s

95th percentile per-packet one-way delay: 206.783 ms

Loss rate: 0.59%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-16 17:27:41

End at: 2018-01-16 17:28:11

# Below is generated by plot.py at 2018-01-16 21:13:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 351.31 Mbit/s

95th percentile per-packet one-way delay: 62.034 ms

Loss rate: 0.00%

-- Flow 1:

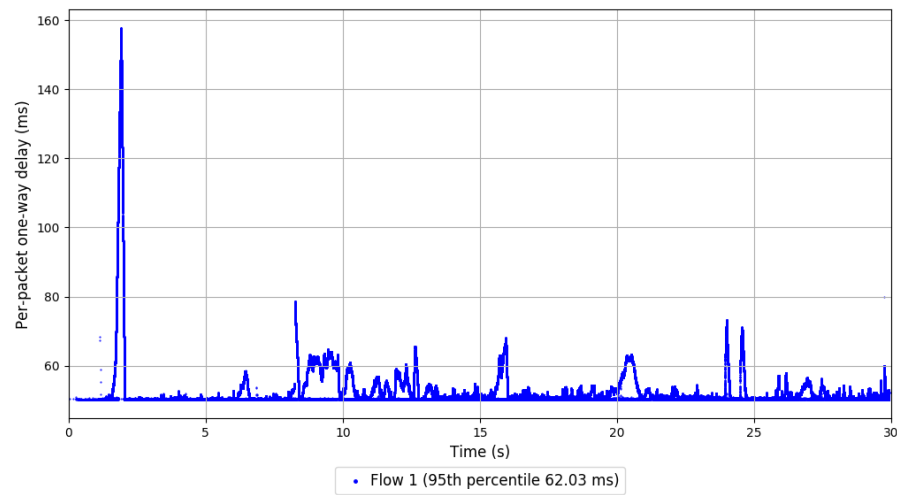
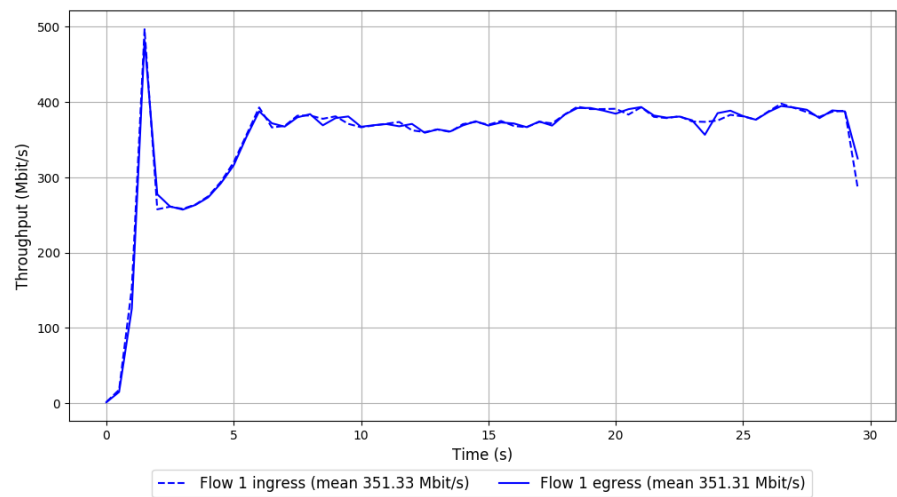
Average throughput: 351.31 Mbit/s

95th percentile per-packet one-way delay: 62.034 ms

Loss rate: 0.00%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-16 17:41:50

End at: 2018-01-16 17:42:20

# Below is generated by plot.py at 2018-01-16 21:13:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 375.25 Mbit/s

95th percentile per-packet one-way delay: 196.006 ms

Loss rate: 0.69%

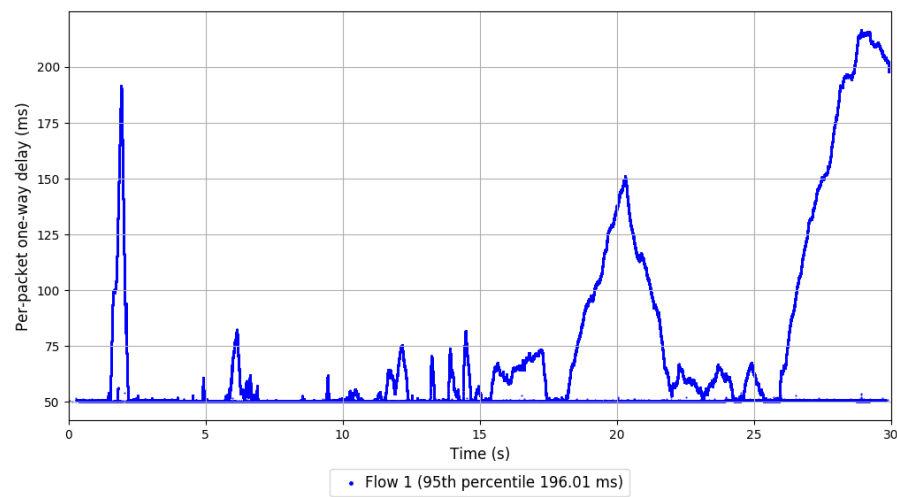
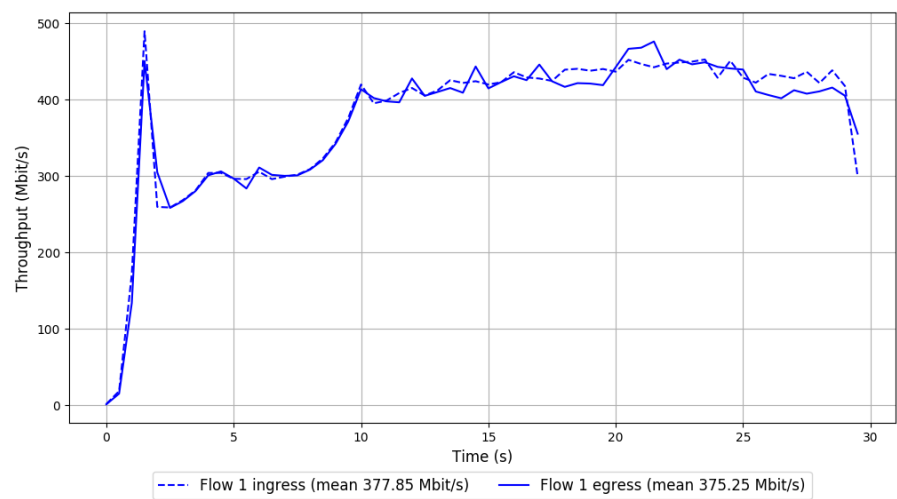
-- Flow 1:

Average throughput: 375.25 Mbit/s

95th percentile per-packet one-way delay: 196.006 ms

Loss rate: 0.69%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-16 17:55:54

End at: 2018-01-16 17:56:24

# Below is generated by plot.py at 2018-01-16 21:13:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 352.98 Mbit/s

95th percentile per-packet one-way delay: 211.112 ms

Loss rate: 1.49%

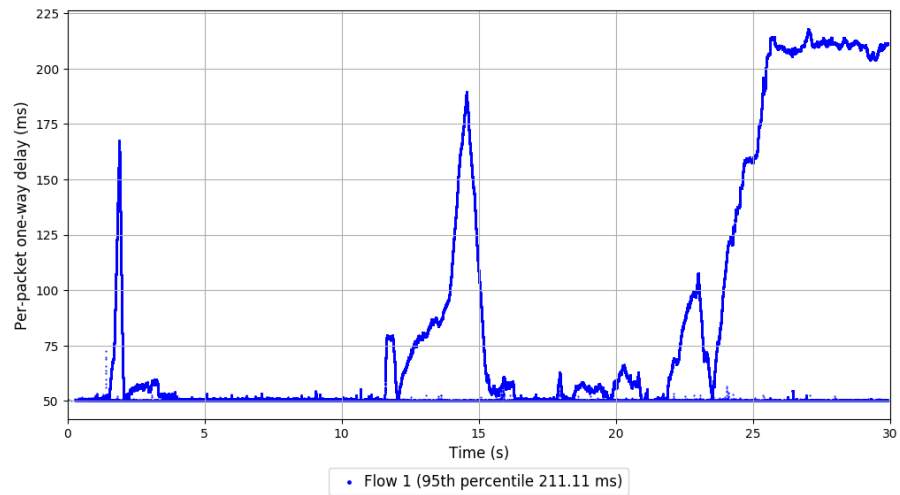
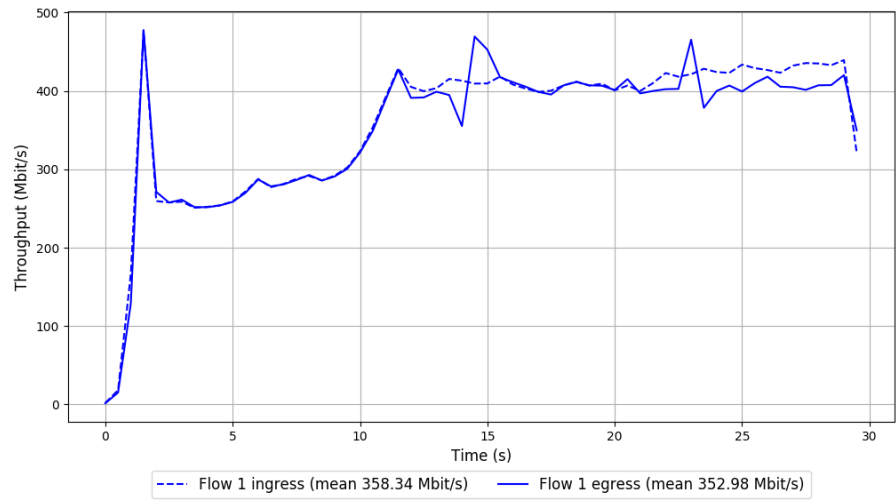
-- Flow 1:

Average throughput: 352.98 Mbit/s

95th percentile per-packet one-way delay: 211.112 ms

Loss rate: 1.49%

### Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-16 18:09:40

End at: 2018-01-16 18:10:10

# Below is generated by plot.py at 2018-01-16 21:14:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 364.00 Mbit/s

95th percentile per-packet one-way delay: 203.345 ms

Loss rate: 0.22%

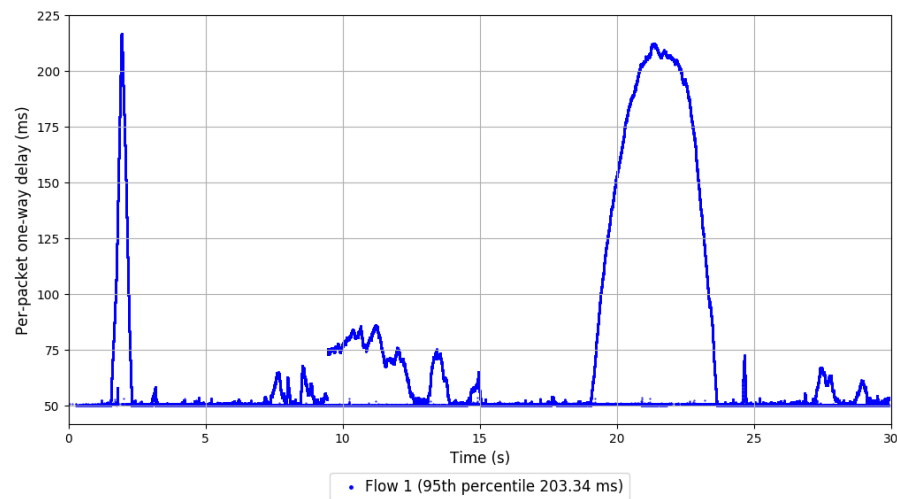
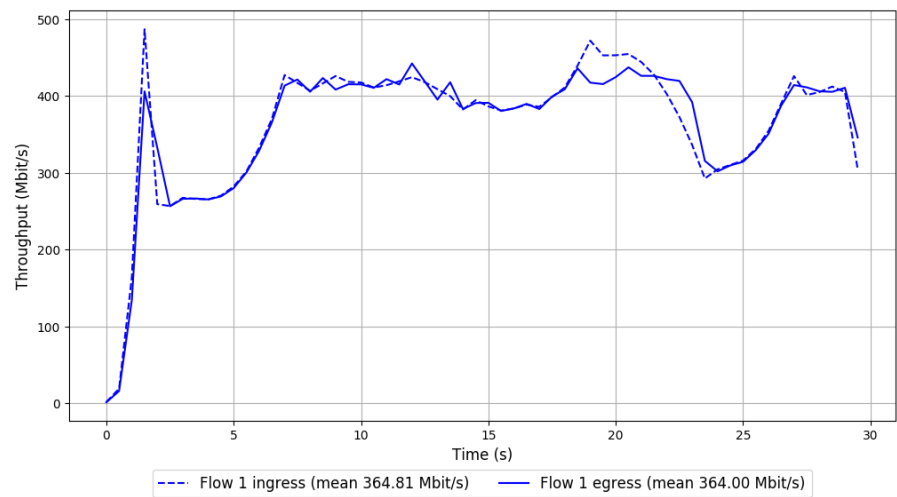
-- Flow 1:

Average throughput: 364.00 Mbit/s

95th percentile per-packet one-way delay: 203.345 ms

Loss rate: 0.22%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-16 18:23:43

End at: 2018-01-16 18:24:13

# Below is generated by plot.py at 2018-01-16 21:15:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 410.51 Mbit/s

95th percentile per-packet one-way delay: 196.670 ms

Loss rate: 1.09%

-- Flow 1:

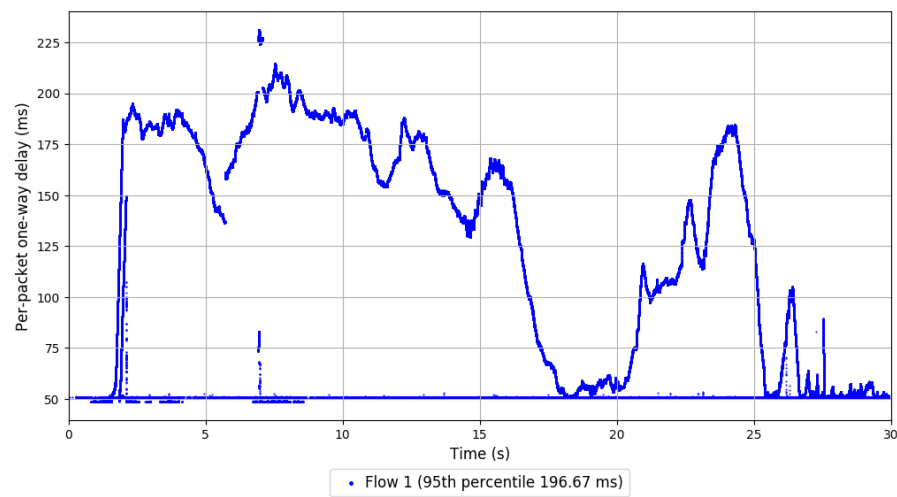
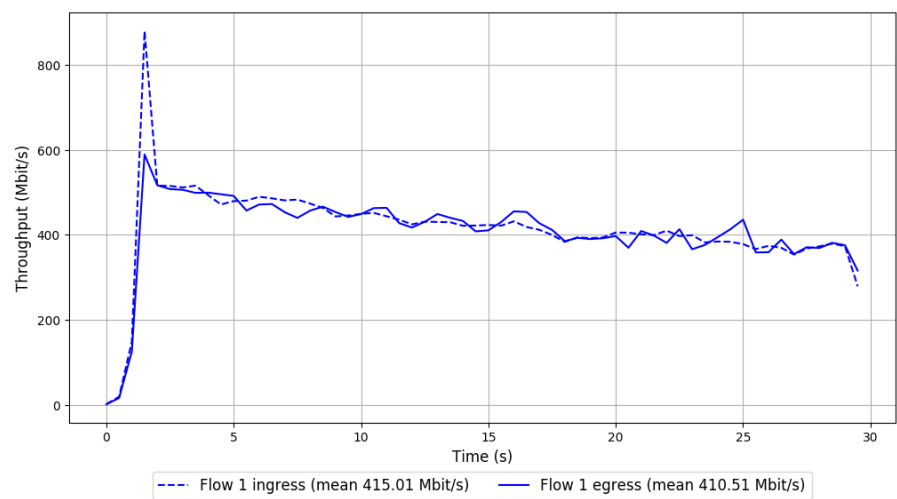
Average throughput: 410.51 Mbit/s

95th percentile per-packet one-way delay: 196.670 ms

Loss rate: 1.09%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-16 18:37:38

End at: 2018-01-16 18:38:08

# Below is generated by plot.py at 2018-01-16 21:15:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 345.85 Mbit/s

95th percentile per-packet one-way delay: 119.916 ms

Loss rate: 0.03%

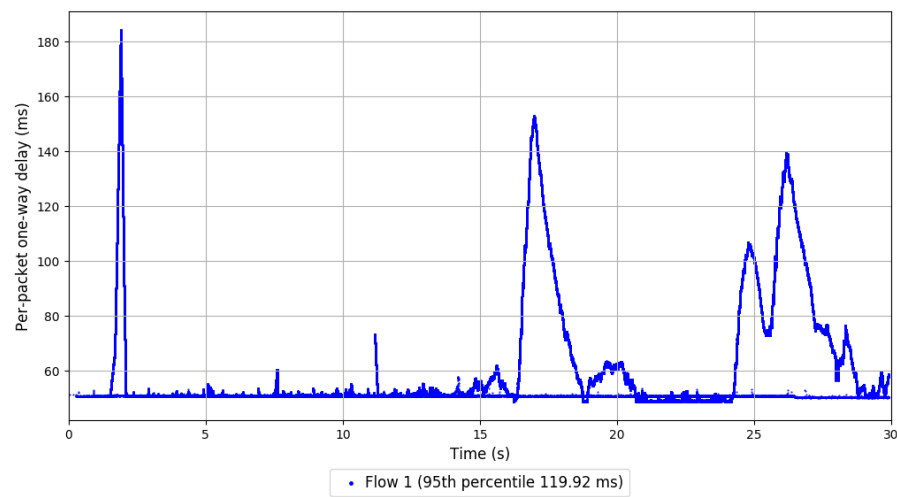
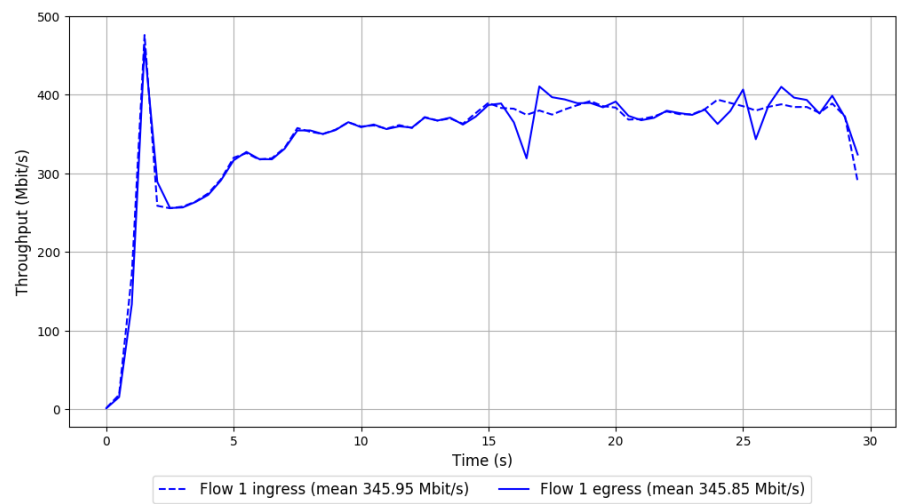
-- Flow 1:

Average throughput: 345.85 Mbit/s

95th percentile per-packet one-way delay: 119.916 ms

Loss rate: 0.03%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-16 18:51:28

End at: 2018-01-16 18:51:58

# Below is generated by plot.py at 2018-01-16 21:18:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 375.50 Mbit/s

95th percentile per-packet one-way delay: 126.285 ms

Loss rate: 0.52%

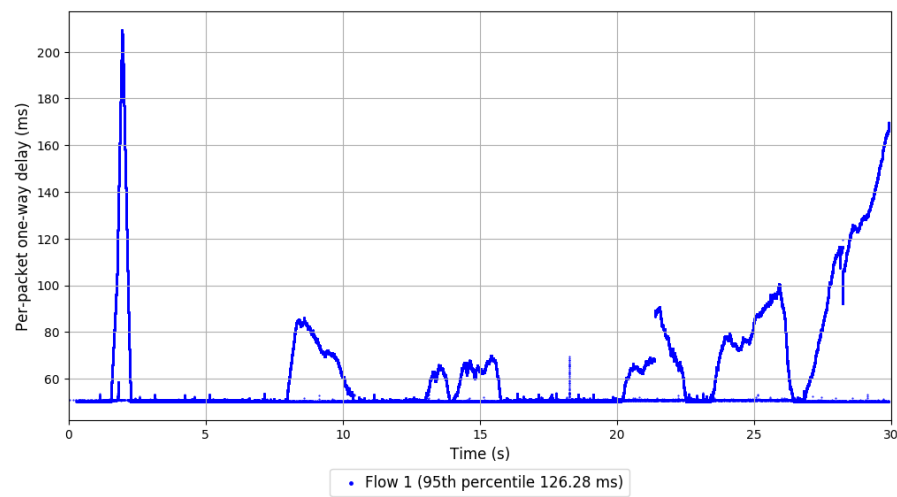
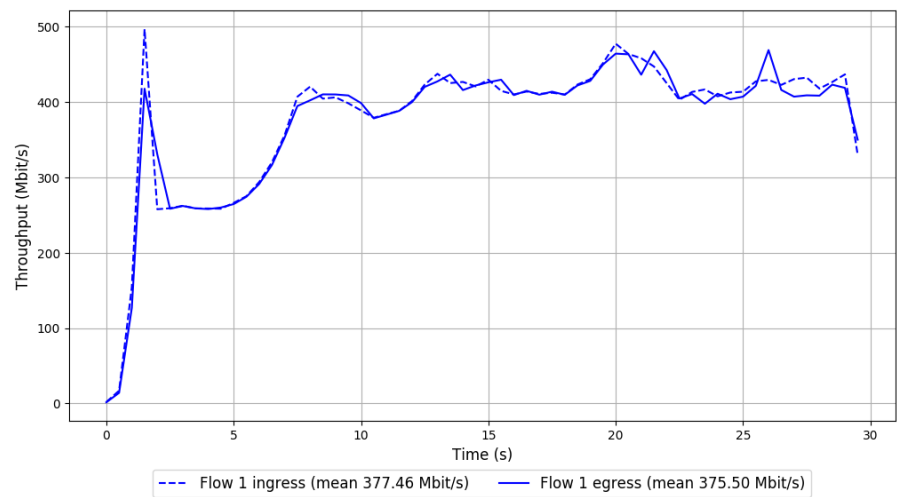
-- Flow 1:

Average throughput: 375.50 Mbit/s

95th percentile per-packet one-way delay: 126.285 ms

Loss rate: 0.52%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-16 19:05:45

End at: 2018-01-16 19:06:15

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 349.33 Mbit/s

95th percentile per-packet one-way delay: 198.230 ms

Loss rate: 0.08%

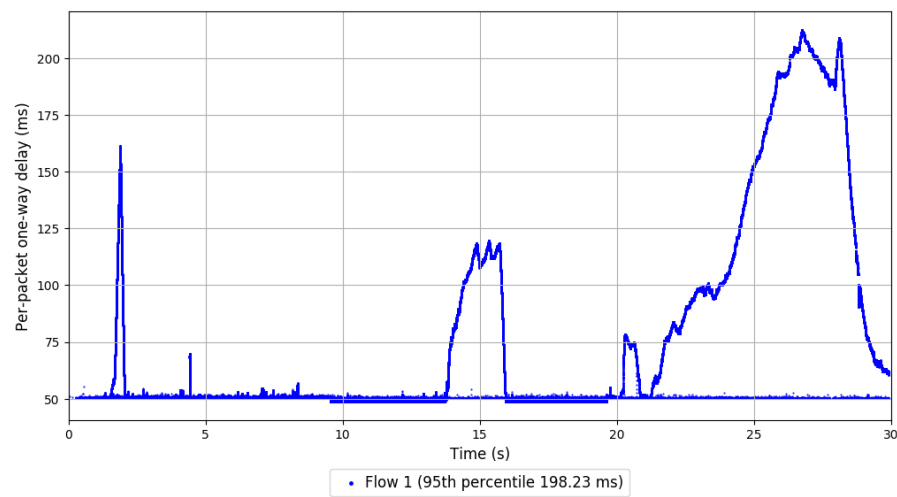
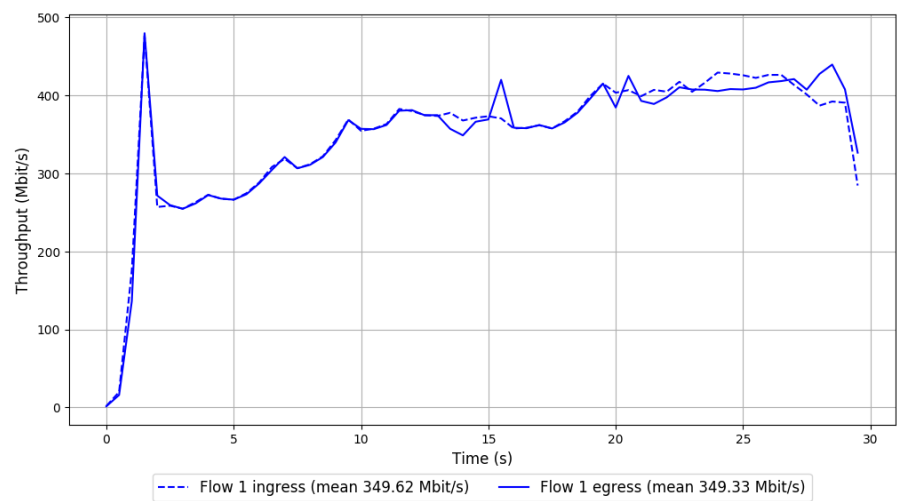
-- Flow 1:

Average throughput: 349.33 Mbit/s

95th percentile per-packet one-way delay: 198.230 ms

Loss rate: 0.08%

Run 10: Report of PCC — Data Link



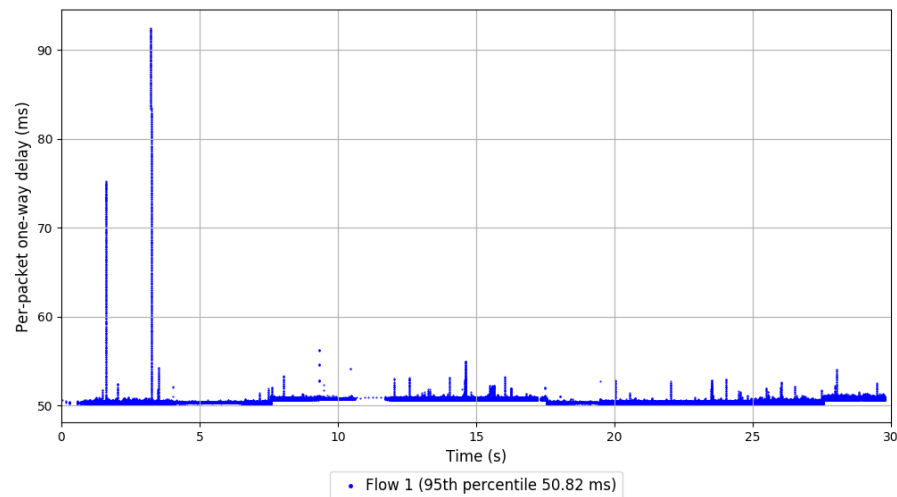
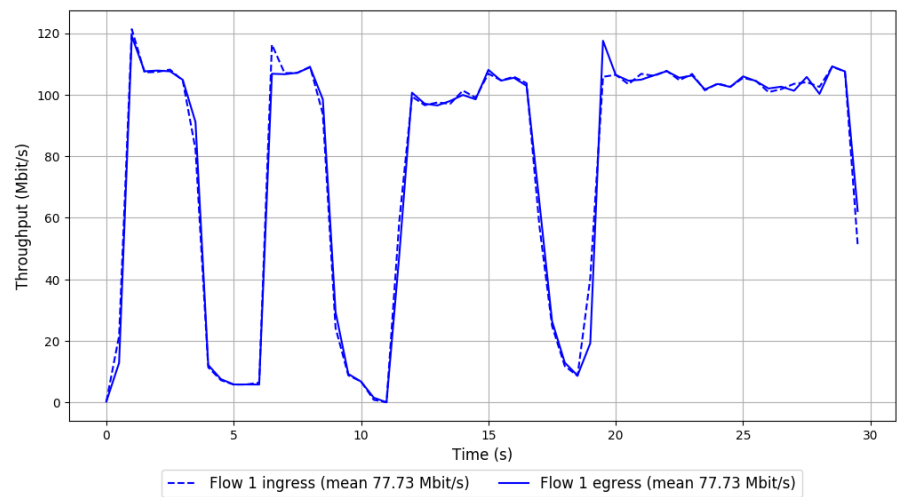
```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-16 17:04:37
End at: 2018-01-16 17:05:07

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 50.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 50.824 ms
Loss rate: 0.00%
```



Run 1: Report of QUIC Cubic — Data Link

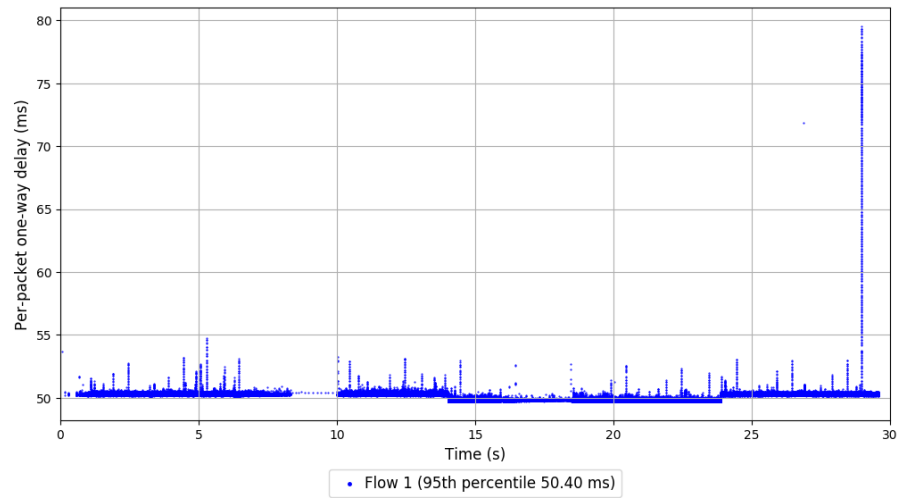
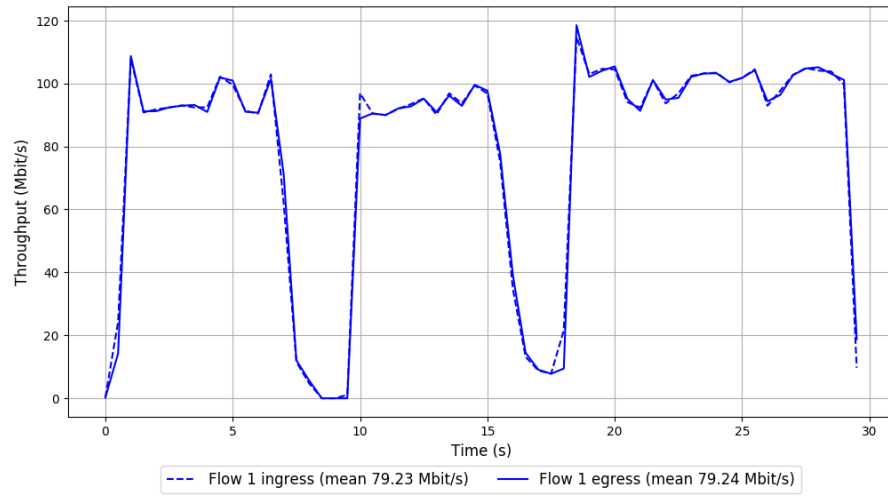


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-16 17:19:00
End at: 2018-01-16 17:19:30

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 50.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 79.24 Mbit/s
95th percentile per-packet one-way delay: 50.399 ms
Loss rate: 0.00%
```

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-16 17:33:16

End at: 2018-01-16 17:33:46

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 50.354 ms

Loss rate: 0.00%

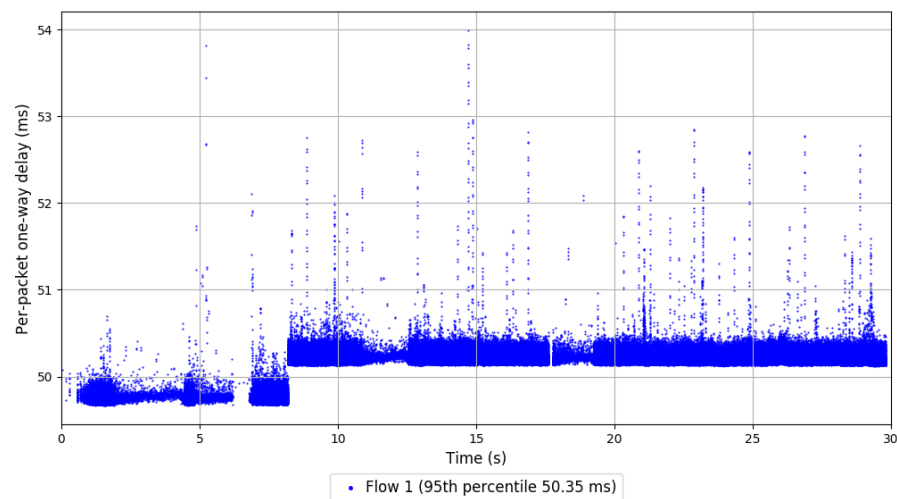
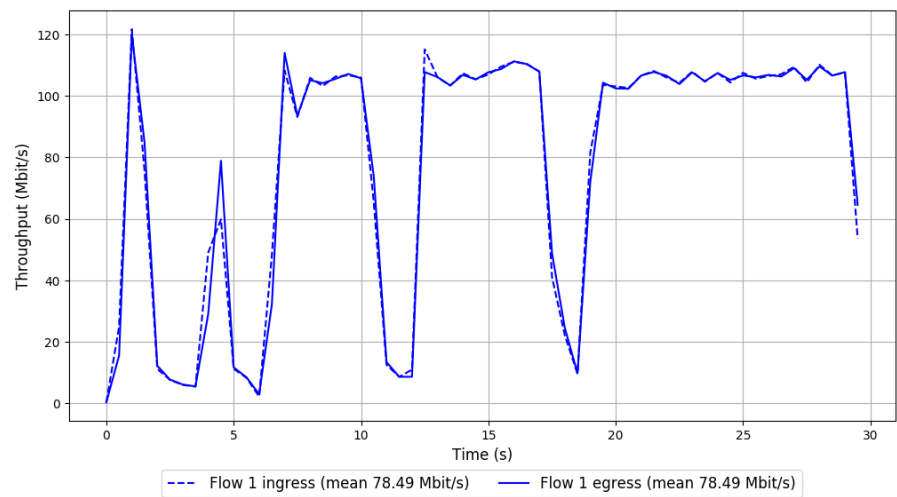
-- Flow 1:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 50.354 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-16 17:47:13

End at: 2018-01-16 17:47:43

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 50.668 ms

Loss rate: 0.00%

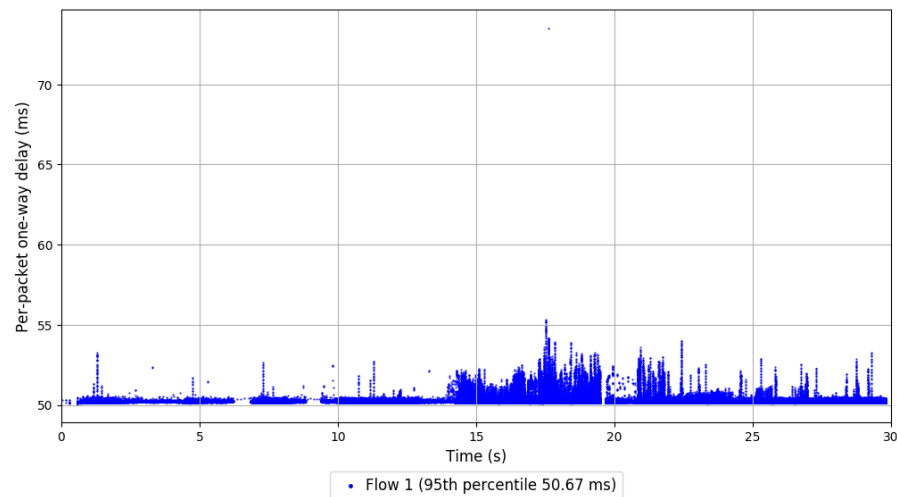
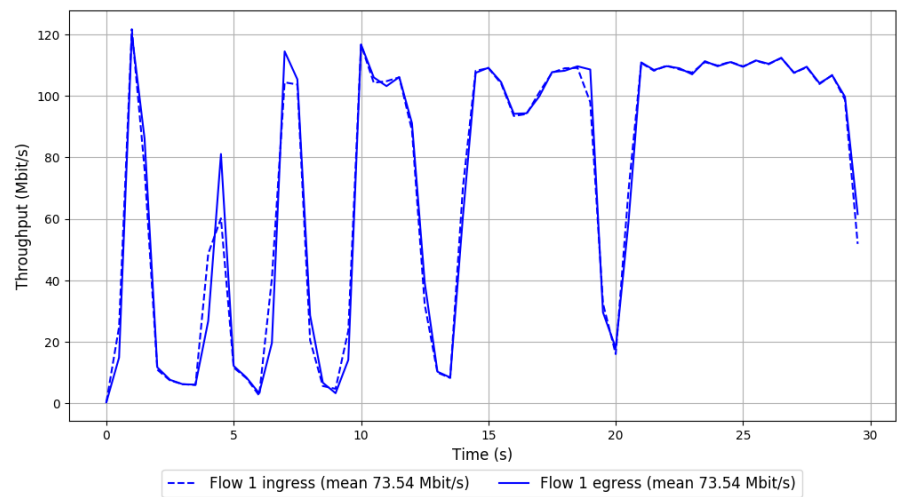
-- Flow 1:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 50.668 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-16 18:01:15

End at: 2018-01-16 18:01:45

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.63 Mbit/s

95th percentile per-packet one-way delay: 50.450 ms

Loss rate: 0.00%

-- Flow 1:

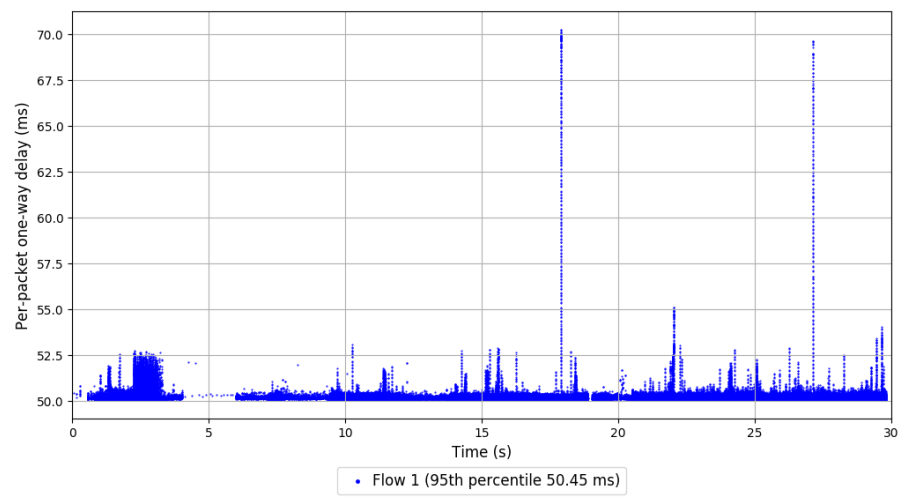
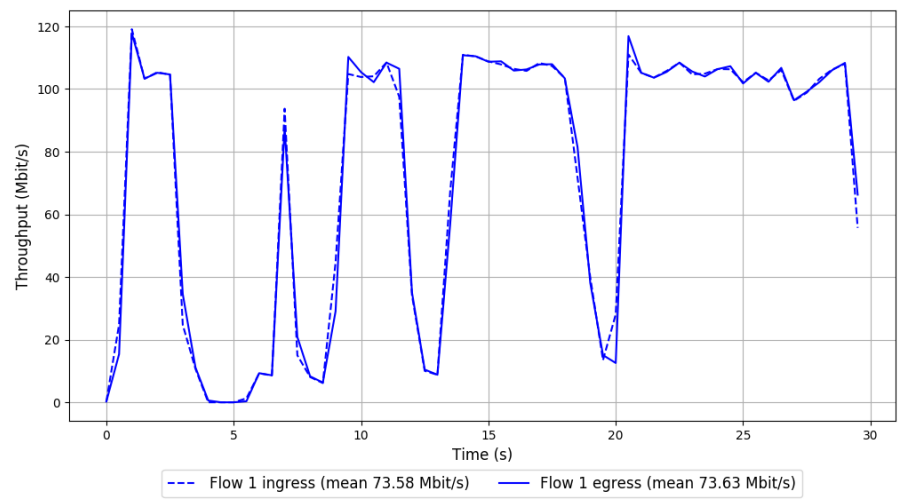
Average throughput: 73.63 Mbit/s

95th percentile per-packet one-way delay: 50.450 ms

Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-16 18:15:12

End at: 2018-01-16 18:15:42

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 50.951 ms

Loss rate: 0.00%

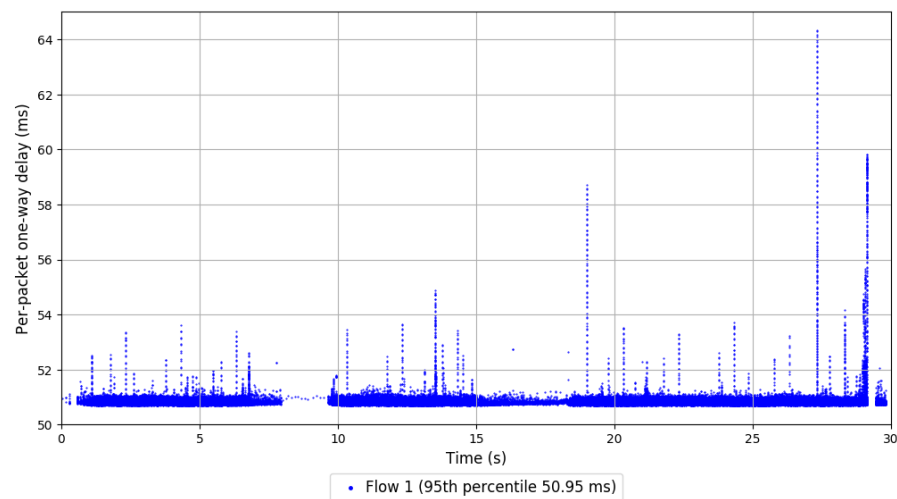
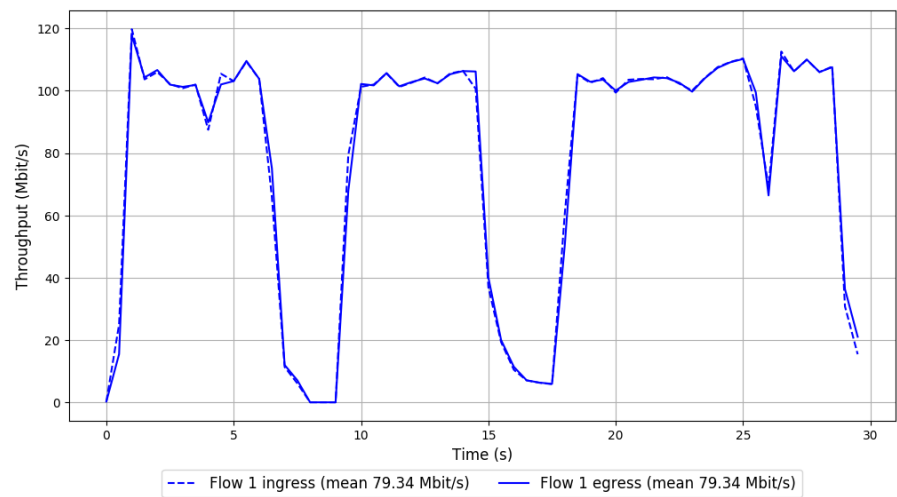
-- Flow 1:

Average throughput: 79.34 Mbit/s

95th percentile per-packet one-way delay: 50.951 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-16 18:29:10

End at: 2018-01-16 18:29:40

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.43 Mbit/s

95th percentile per-packet one-way delay: 51.024 ms

Loss rate: 0.01%

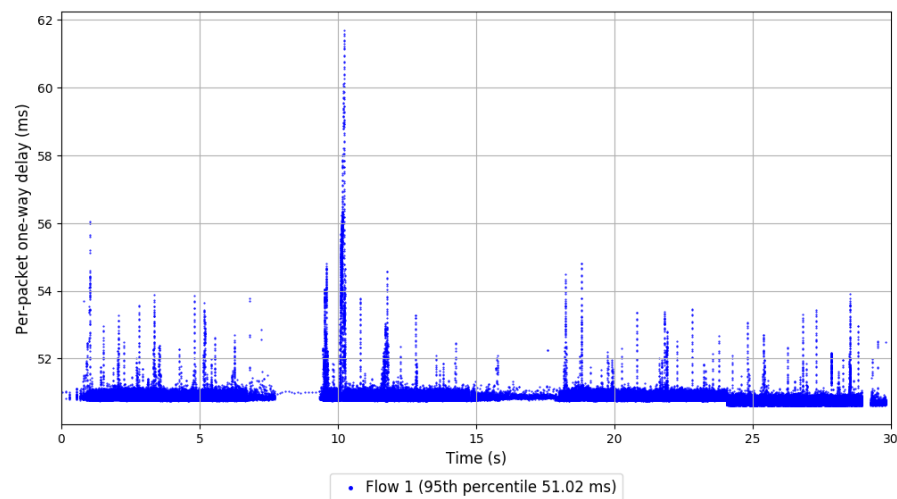
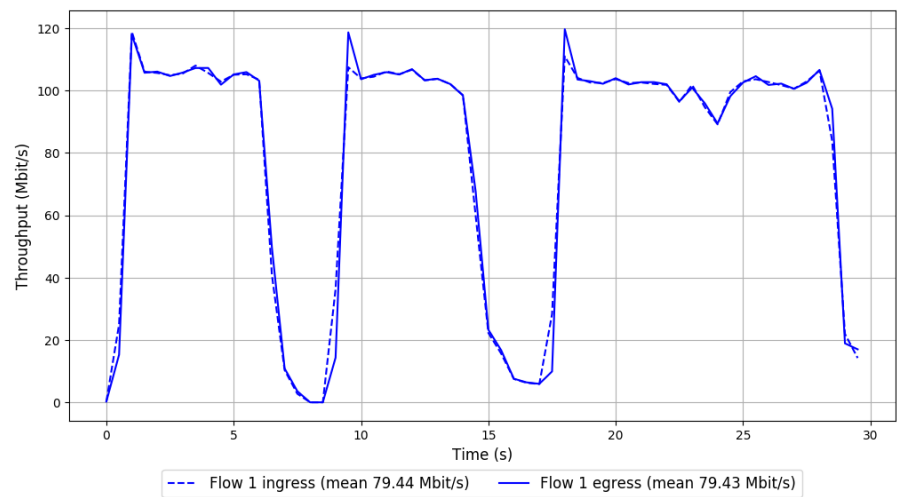
-- Flow 1:

Average throughput: 79.43 Mbit/s

95th percentile per-packet one-way delay: 51.024 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-16 18:42:57

End at: 2018-01-16 18:43:27

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.74 Mbit/s

95th percentile per-packet one-way delay: 50.962 ms

Loss rate: 0.01%

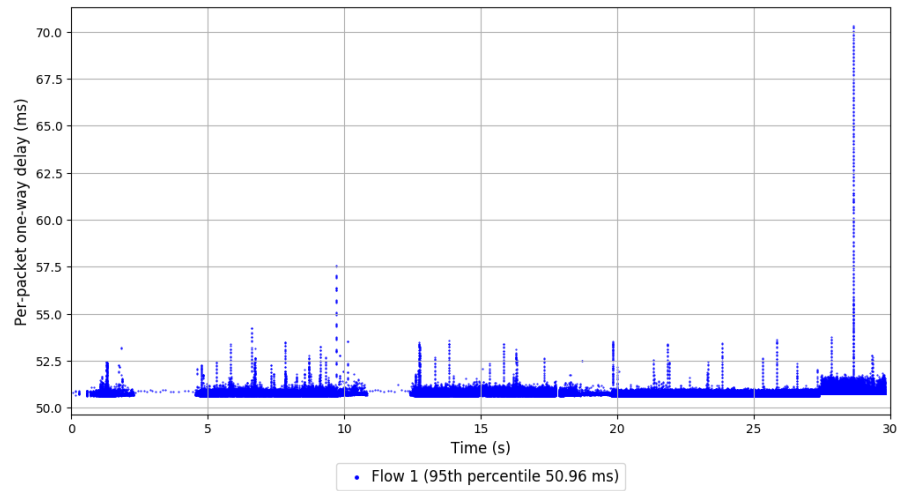
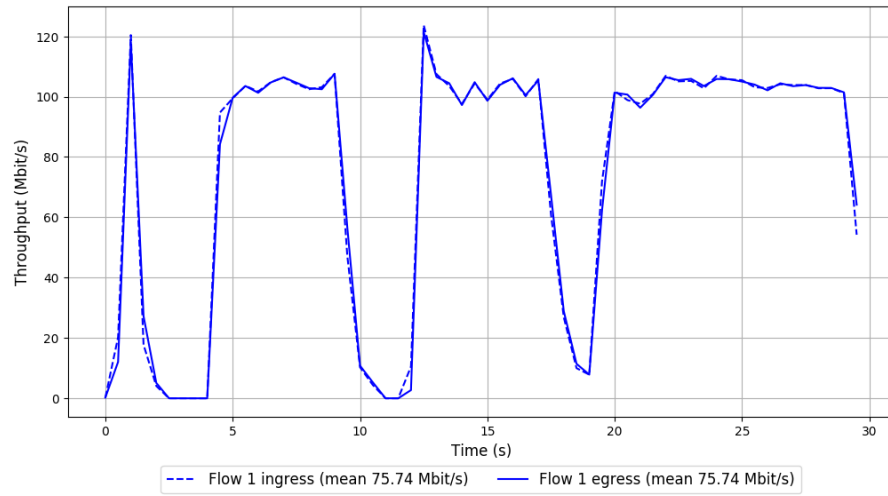
-- Flow 1:

Average throughput: 75.74 Mbit/s

95th percentile per-packet one-way delay: 50.962 ms

Loss rate: 0.01%

## Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-16 18:57:16

End at: 2018-01-16 18:57:47

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.21 Mbit/s

95th percentile per-packet one-way delay: 50.837 ms

Loss rate: 0.00%

-- Flow 1:

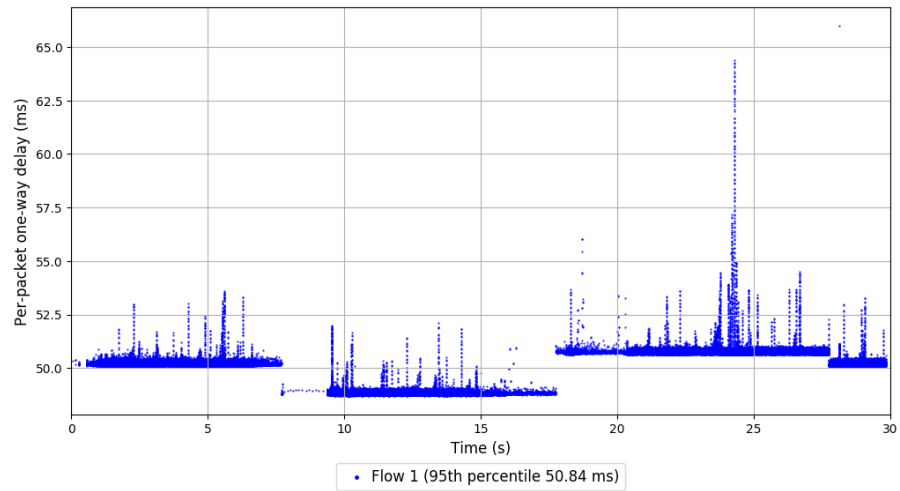
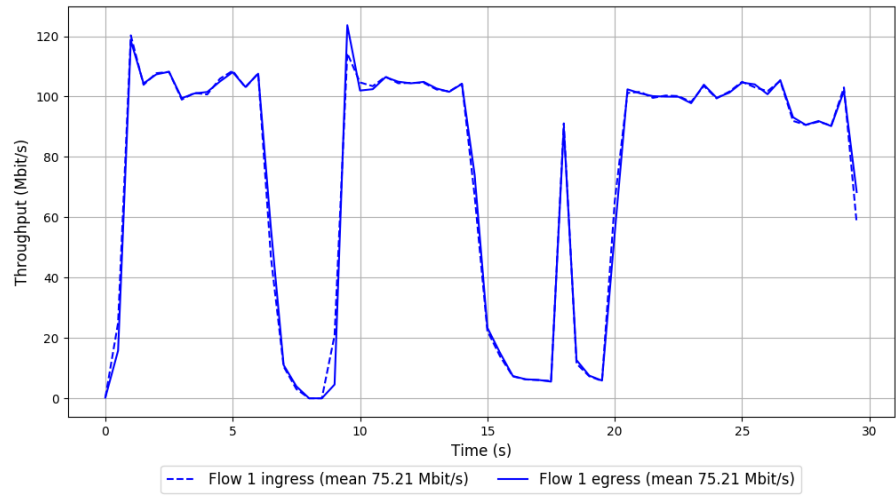
Average throughput: 75.21 Mbit/s

95th percentile per-packet one-way delay: 50.837 ms

Loss rate: 0.00%



### Run 9: Report of QUIC Cubic — Data Link

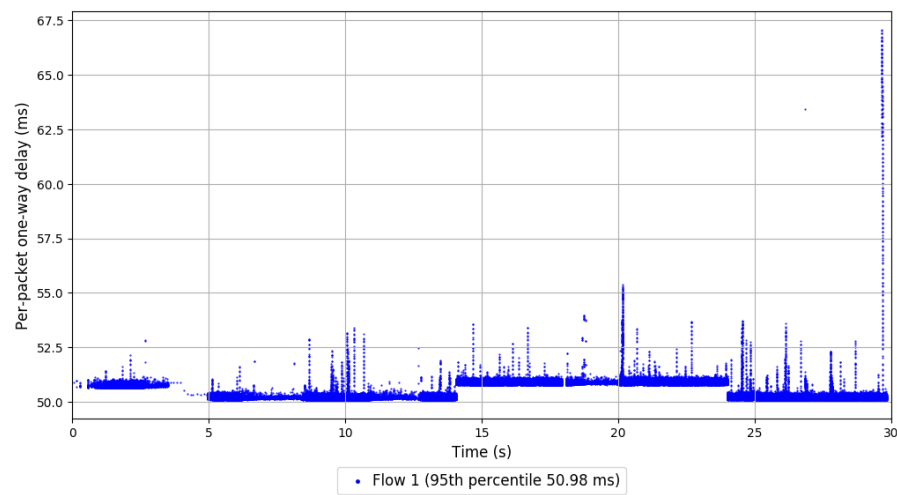
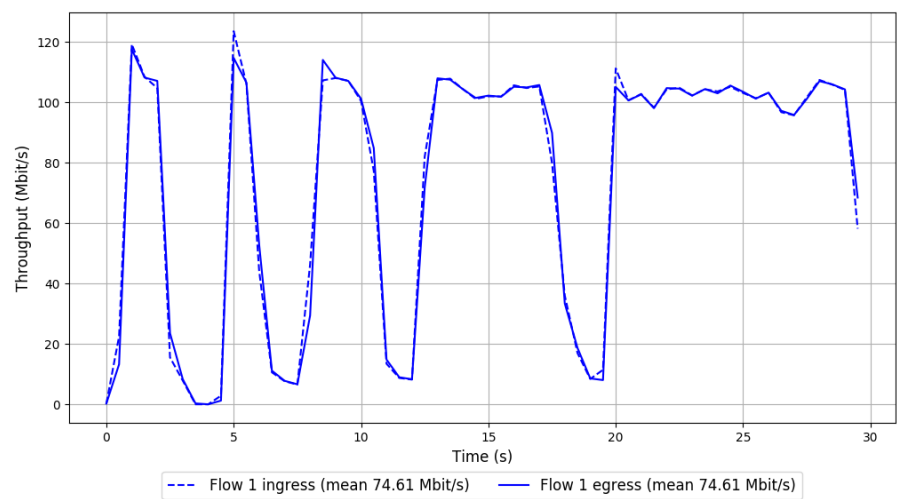


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-16 19:11:30
End at: 2018-01-16 19:12:00

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 50.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 50.981 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

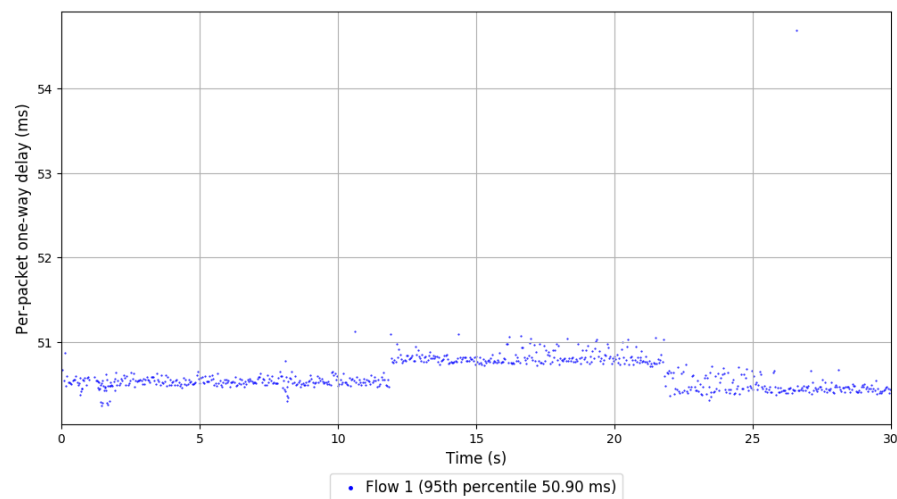
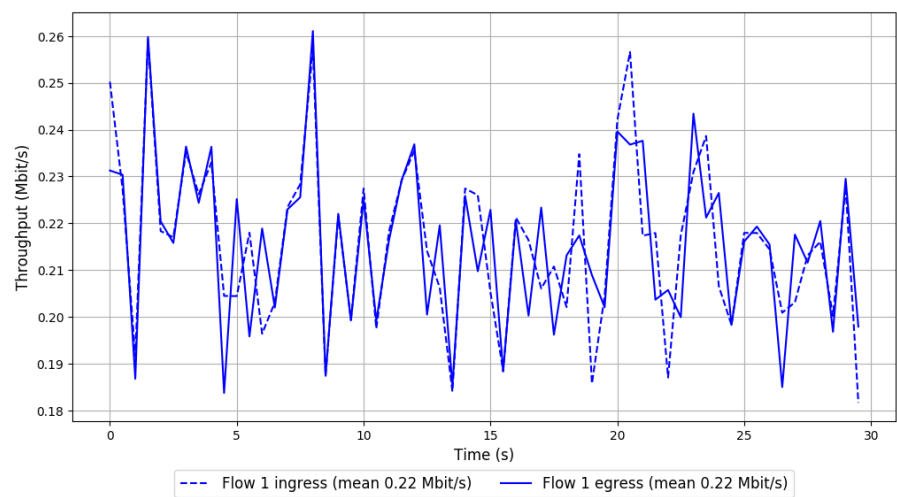


```
Run 1: Statistics of SCReAM

Start at: 2018-01-16 17:12:03
End at: 2018-01-16 17:12:33

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.904 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

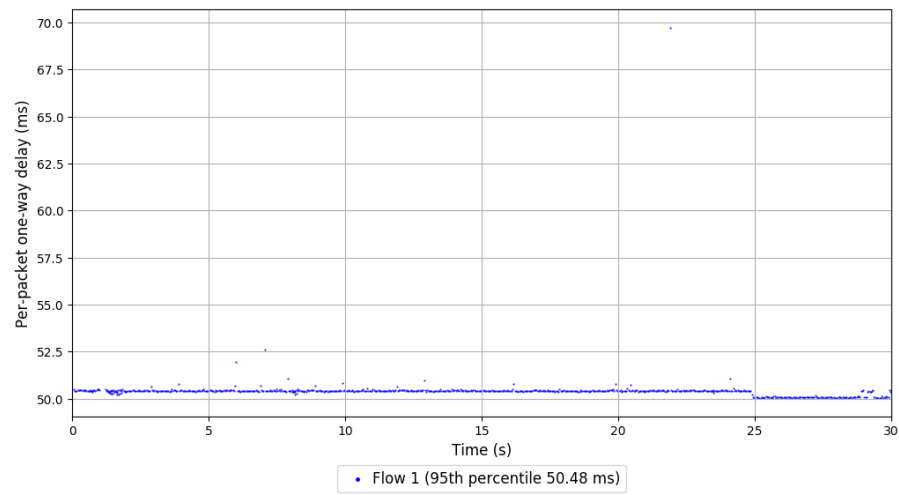
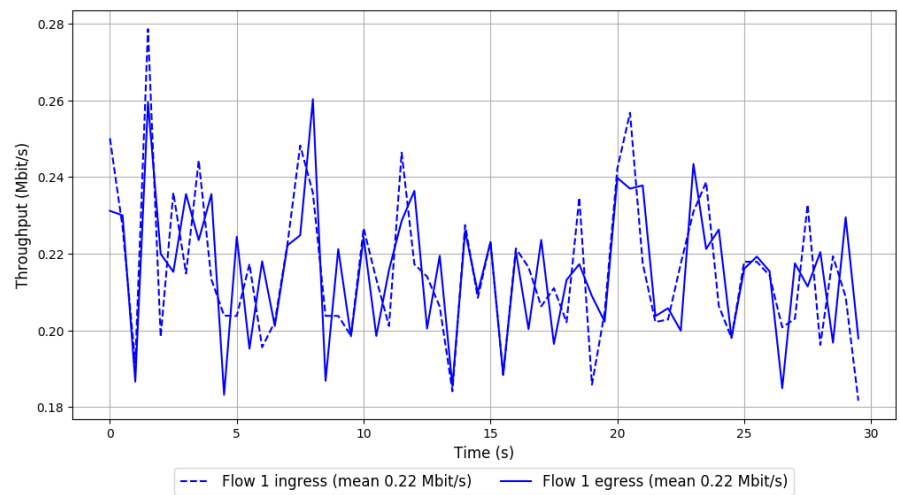


```
Run 2: Statistics of SCReAM

Start at: 2018-01-16 17:26:20
End at: 2018-01-16 17:26:50

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-16 17:40:26

End at: 2018-01-16 17:40:56

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.031 ms

Loss rate: 0.00%

-- Flow 1:

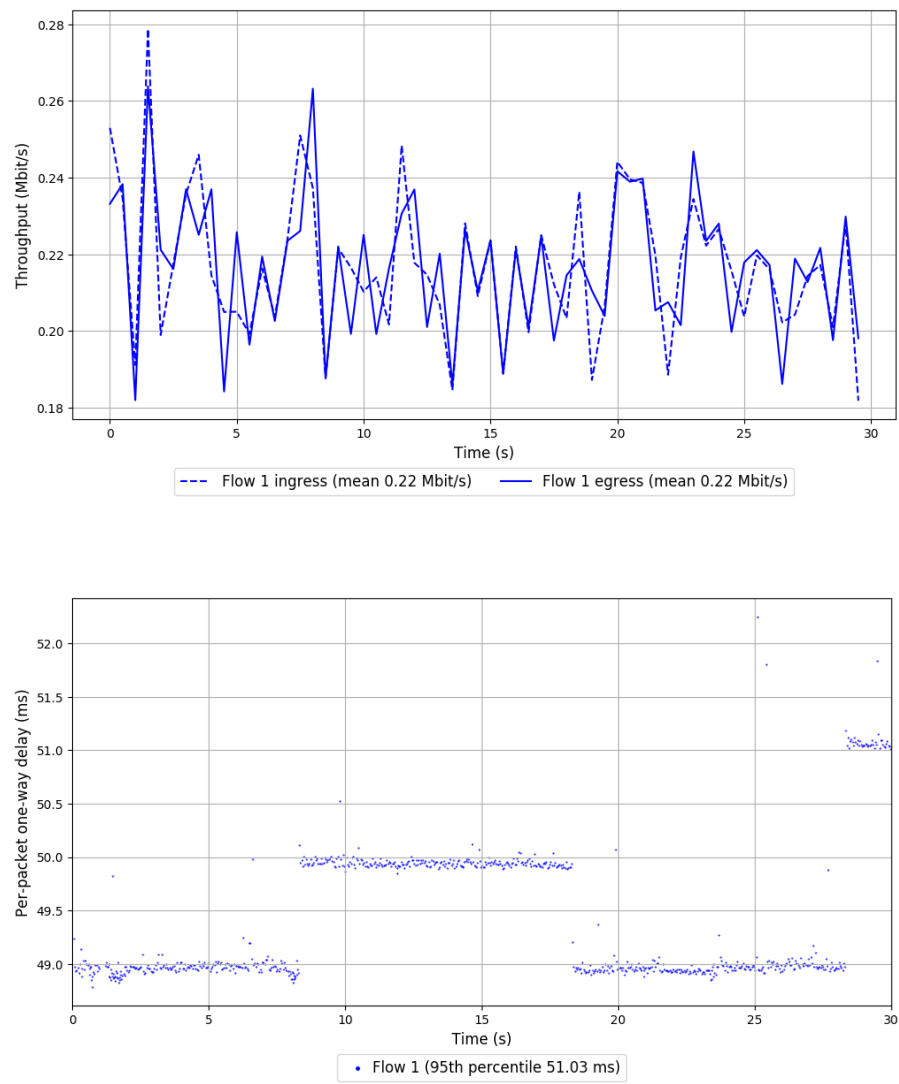
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.031 ms

Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-16 17:54:33

End at: 2018-01-16 17:55:03

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.442 ms

Loss rate: 0.00%

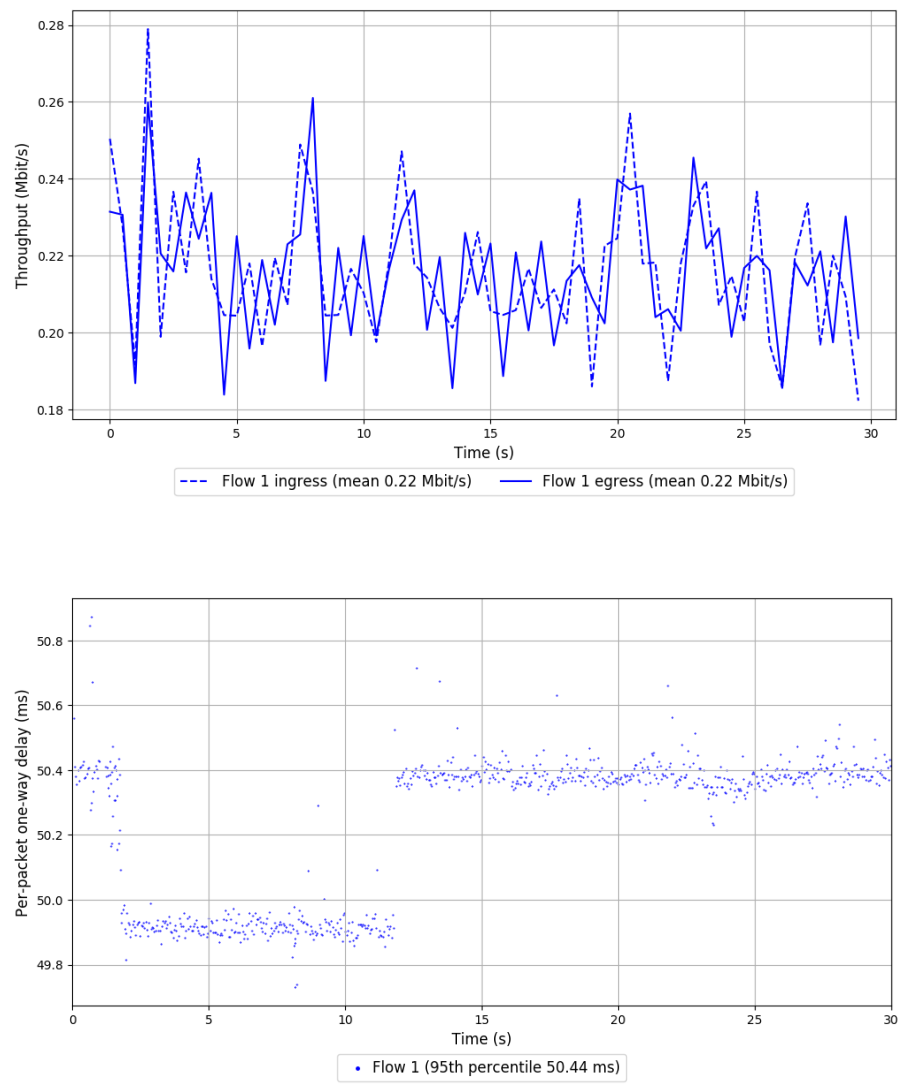
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.442 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

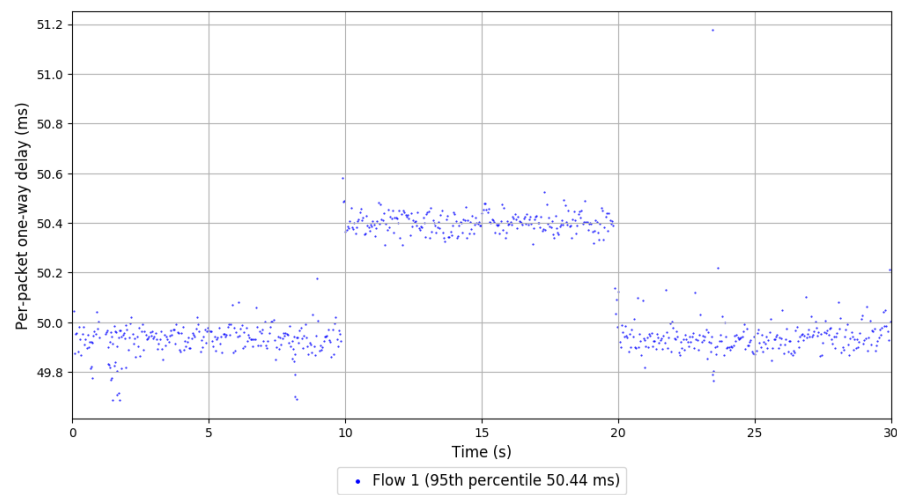
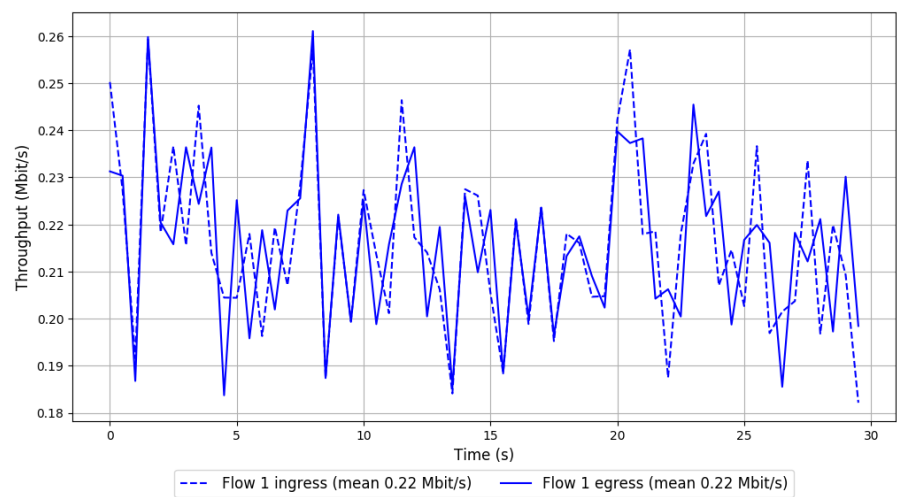


```
Run 5: Statistics of SCReAM

Start at: 2018-01-16 18:08:14
End at: 2018-01-16 18:08:45

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.441 ms
Loss rate: 0.00%
```

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-16 18:22:20

End at: 2018-01-16 18:22:50

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.087 ms

Loss rate: 0.00%

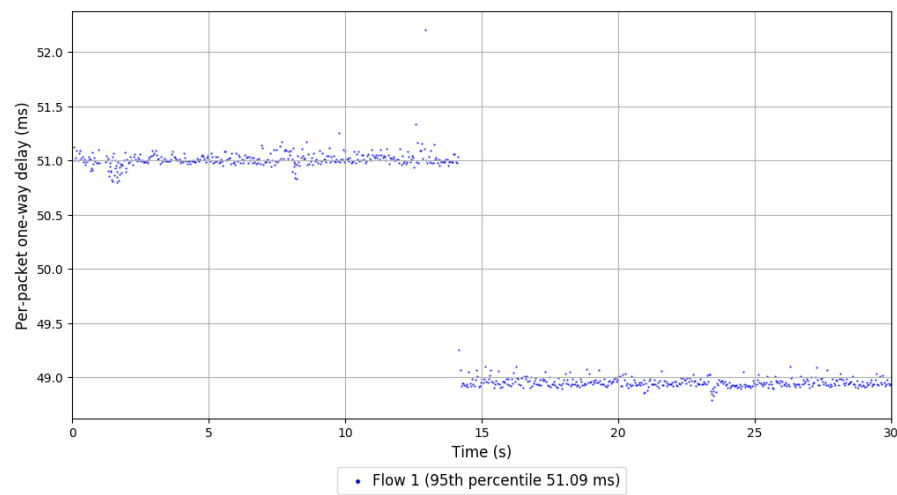
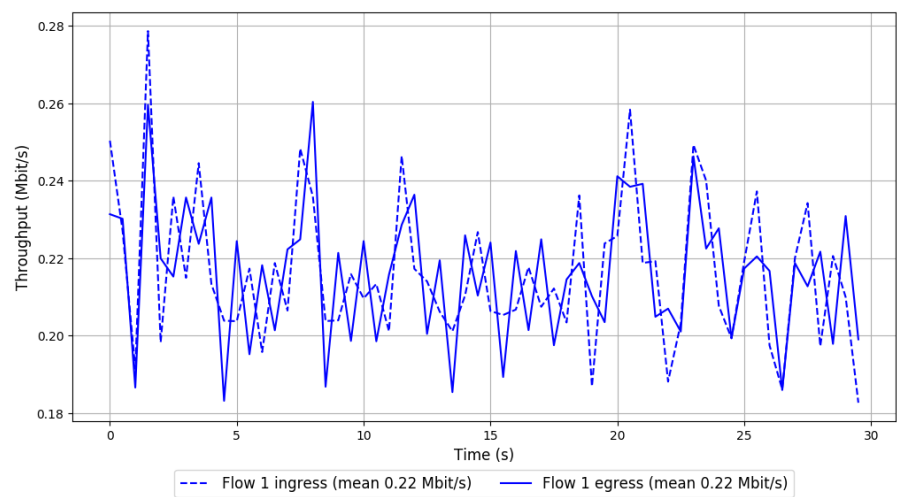
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.087 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-16 18:36:19

End at: 2018-01-16 18:36:49

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.00%

-- Flow 1:

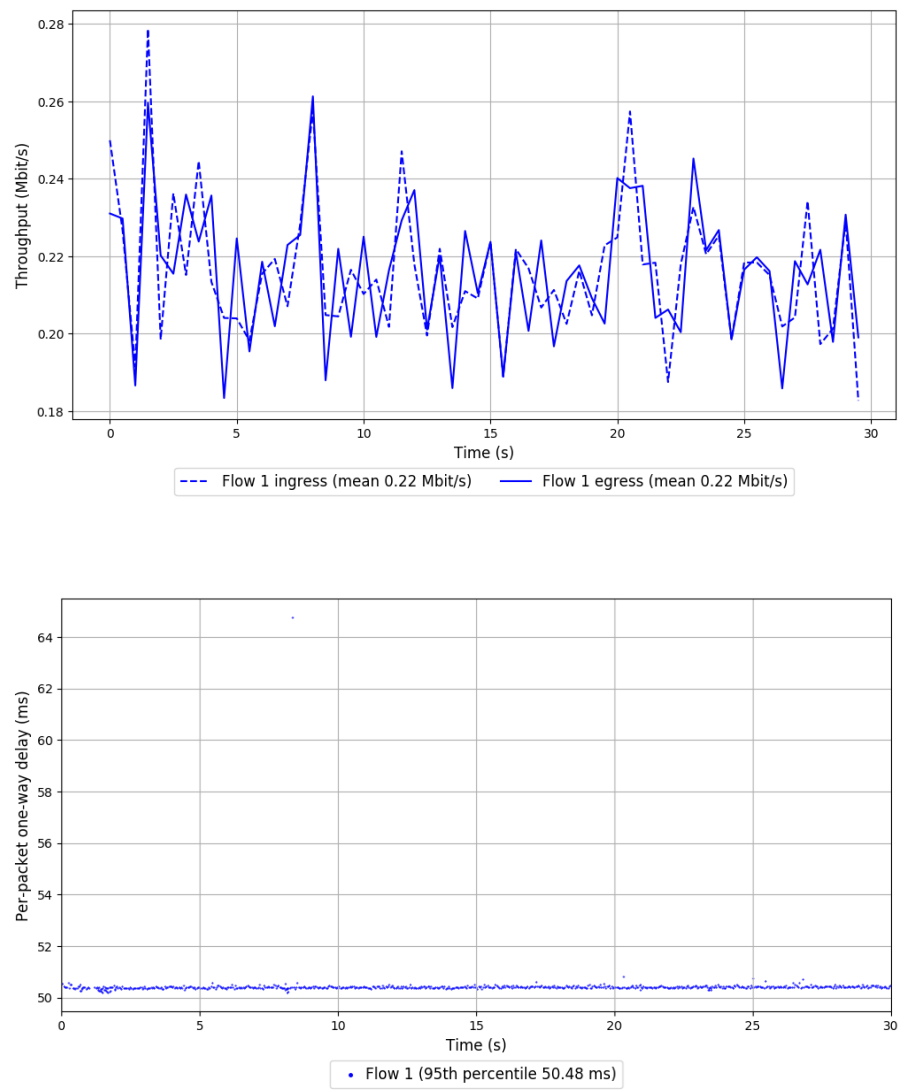
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-16 18:50:06

End at: 2018-01-16 18:50:36

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.423 ms

Loss rate: 0.00%

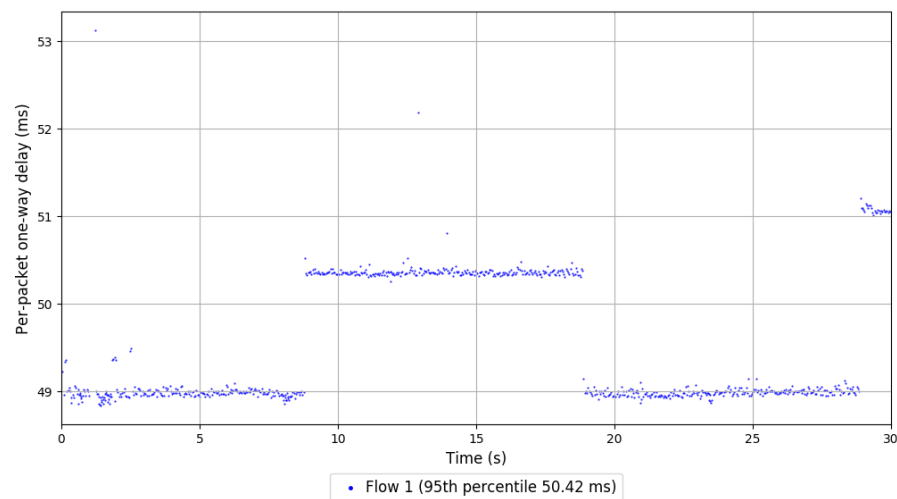
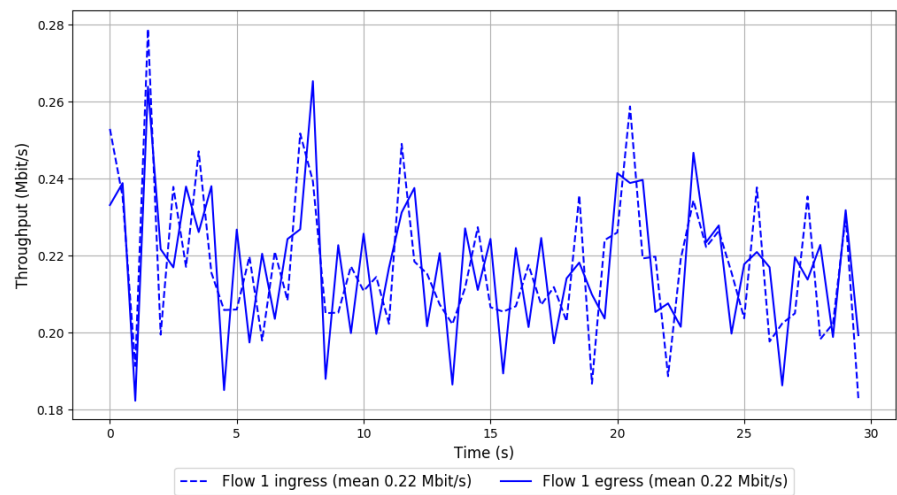
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.423 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-16 19:04:19

End at: 2018-01-16 19:04:49

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 76.263 ms

Loss rate: 0.00%

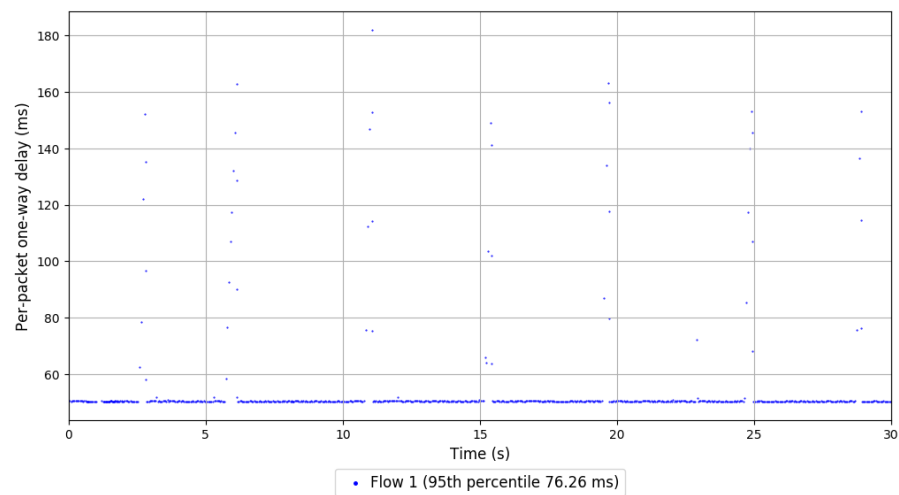
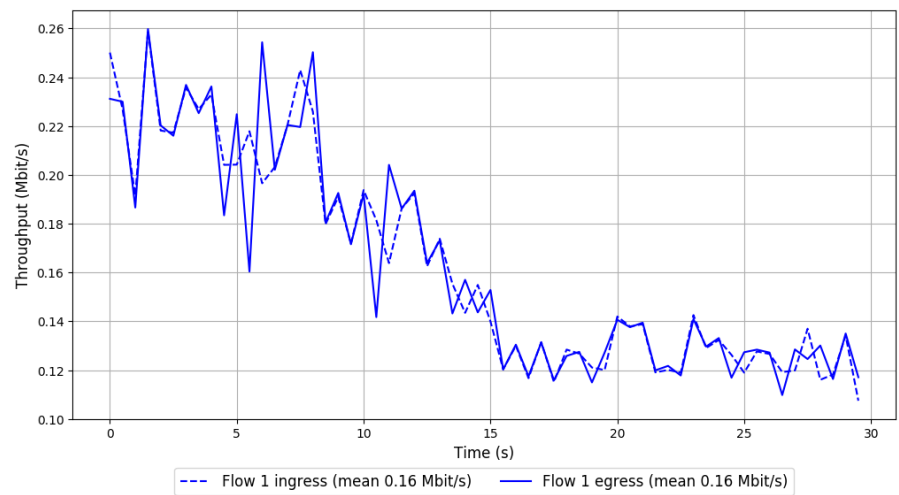
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 76.263 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-16 19:18:39

End at: 2018-01-16 19:19:09

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.441 ms

Loss rate: 0.00%

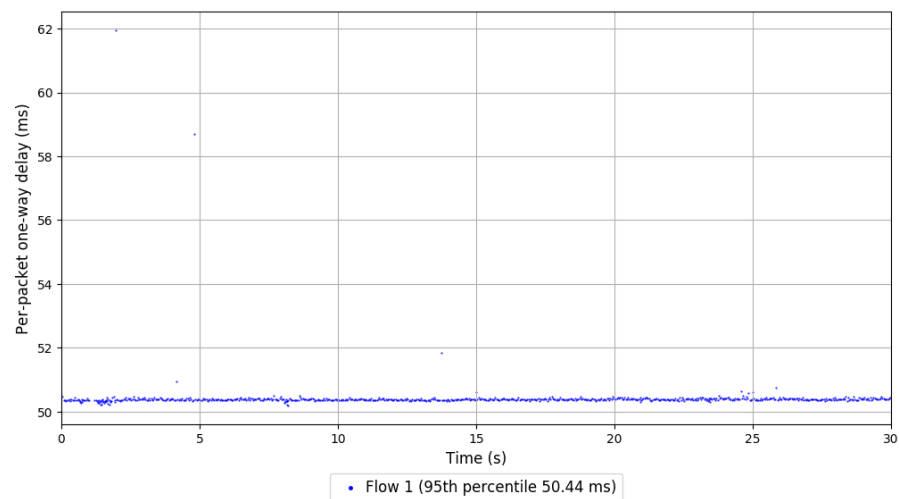
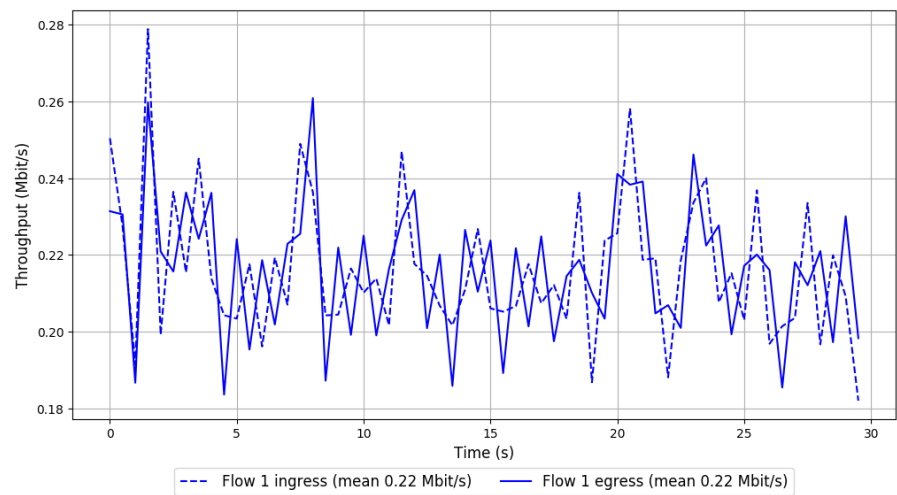
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.441 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



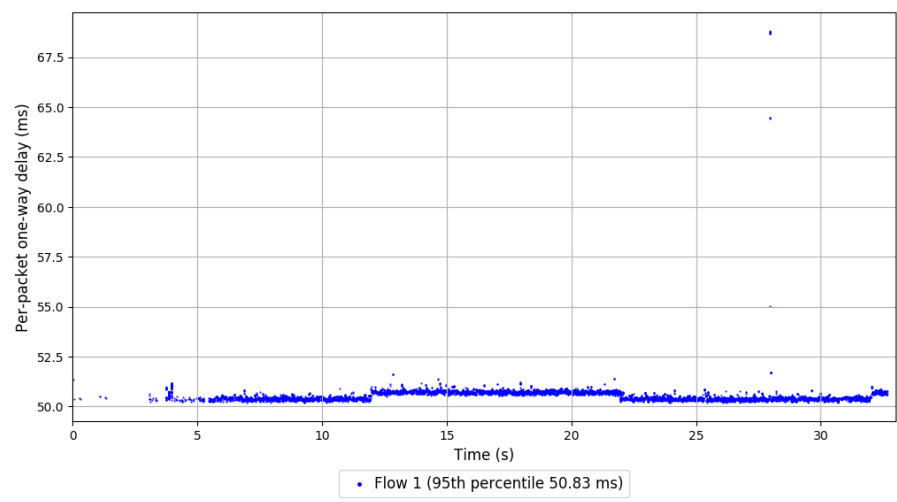
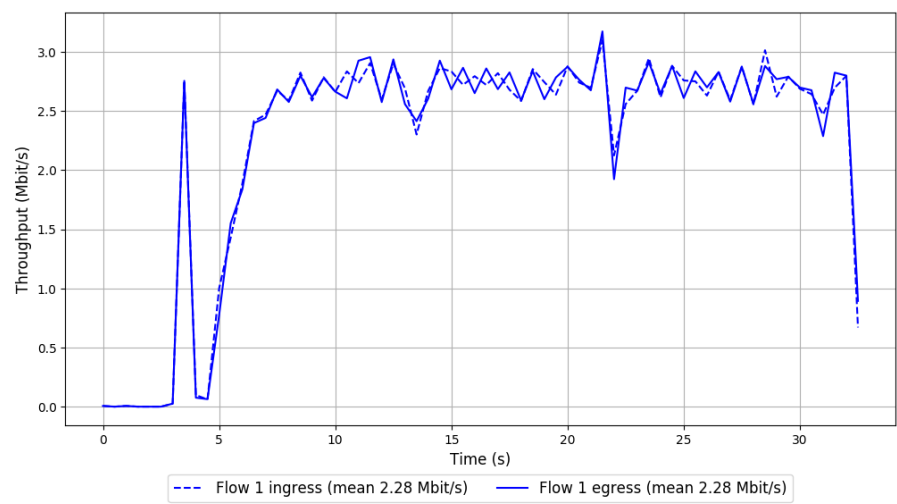
```
Run 1: Statistics of WebRTC media

Start at: 2018-01-16 17:05:55
End at: 2018-01-16 17:06:25

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 50.827 ms
Loss rate: 0.00%
```



Run 1: Report of WebRTC media — Data Link

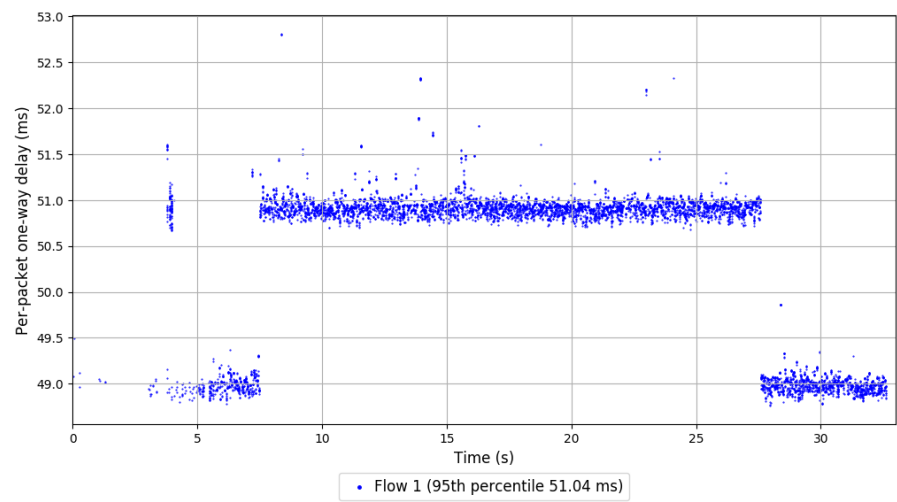
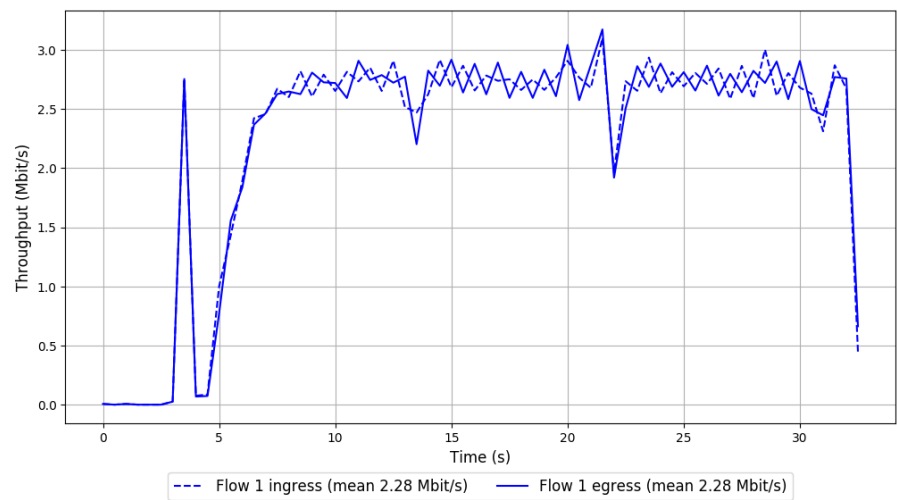


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-16 17:20:19
End at: 2018-01-16 17:20:49

# Below is generated by plot.py at 2018-01-16 21:19:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.038 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 51.038 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-16 17:34:35

End at: 2018-01-16 17:35:05

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.807 ms

Loss rate: 0.00%

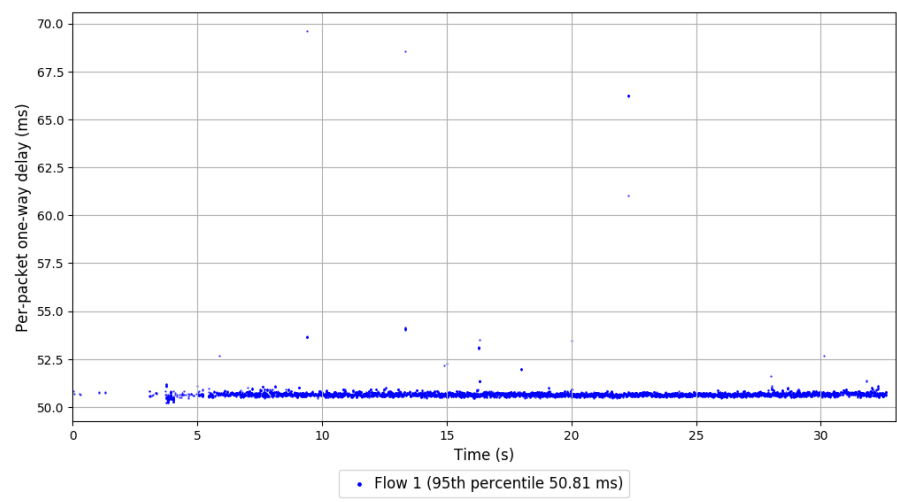
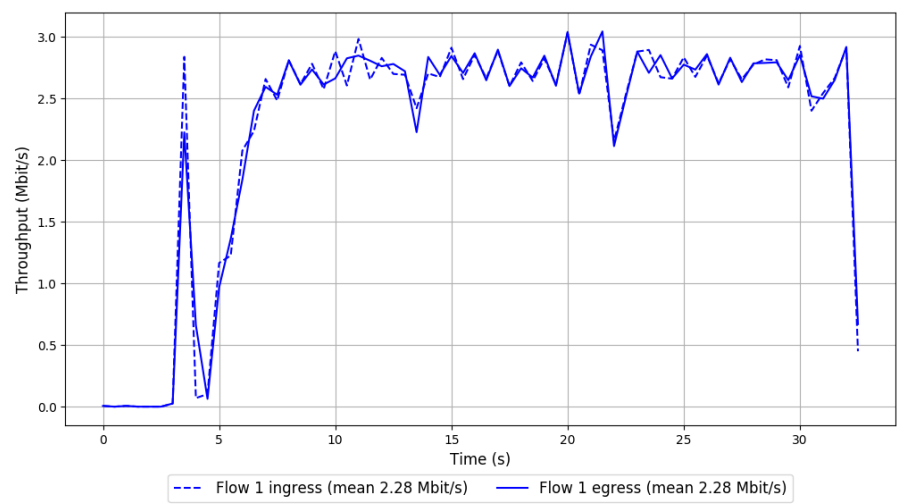
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.807 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-16 17:48:33

End at: 2018-01-16 17:49:03

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.490 ms

Loss rate: 0.00%

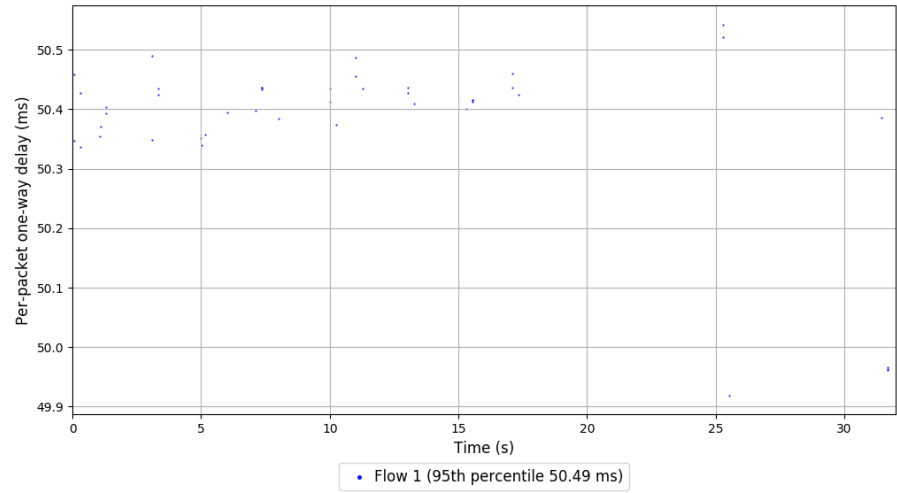
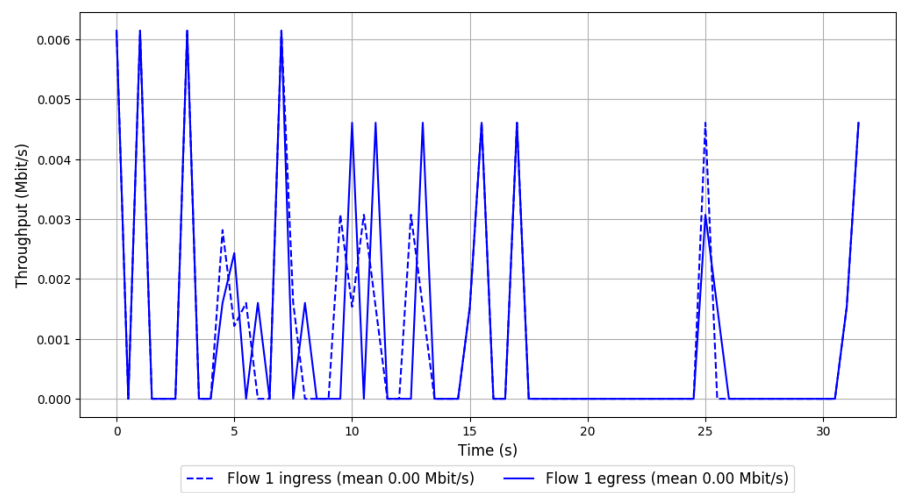
-- Flow 1:

Average throughput: 0.00 Mbit/s

95th percentile per-packet one-way delay: 50.490 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-16 18:02:33

End at: 2018-01-16 18:03:03

# Below is generated by plot.py at 2018-01-16 21:19:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.011 ms

Loss rate: 0.00%

-- Flow 1:

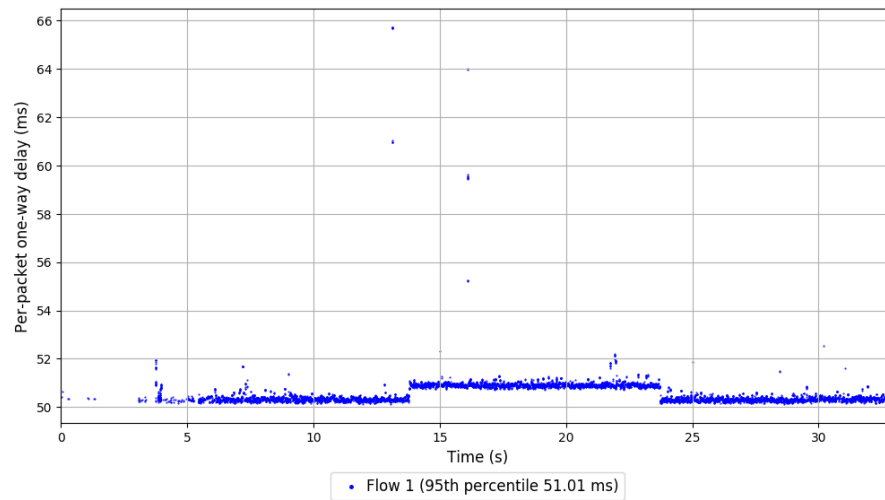
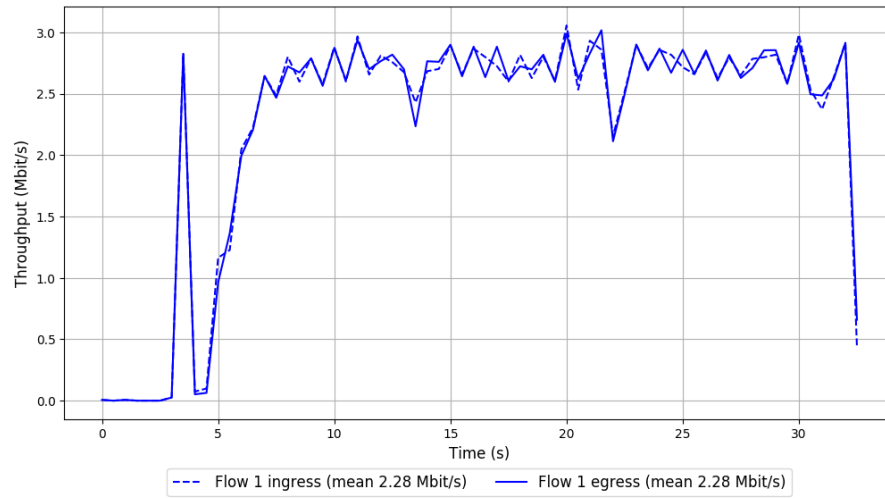
Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 51.011 ms

Loss rate: 0.00%



## Run 5: Report of WebRTC media — Data Link

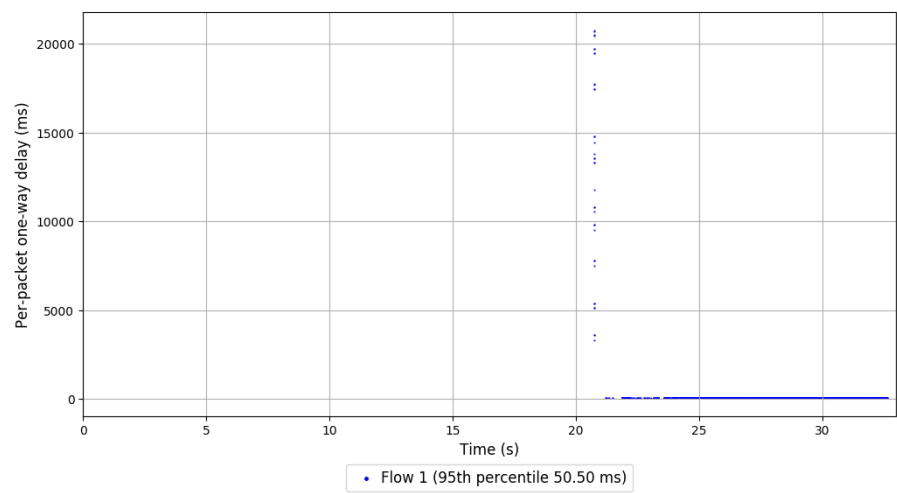
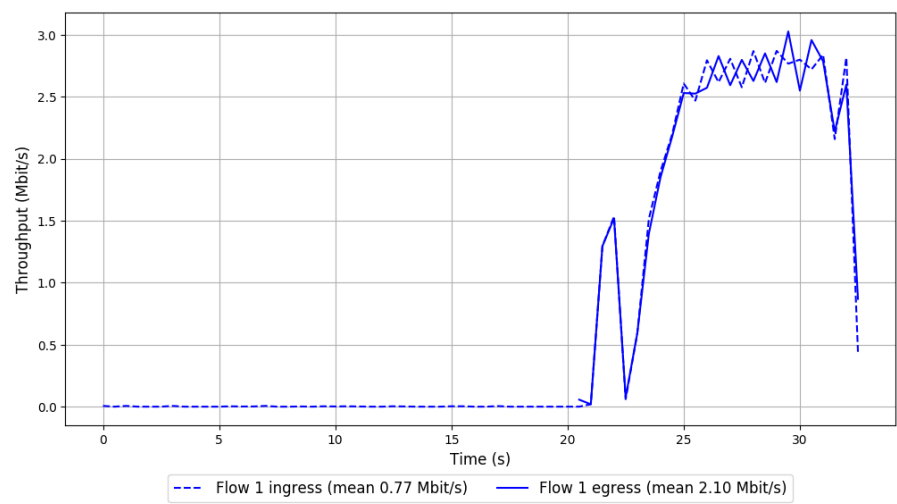


Run 6: Statistics of WebRTC media

Start at: 2018-01-16 18:16:31

End at: 2018-01-16 18:17:01

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-16 18:30:29

End at: 2018-01-16 18:30:59

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 51.091 ms

Loss rate: 0.00%

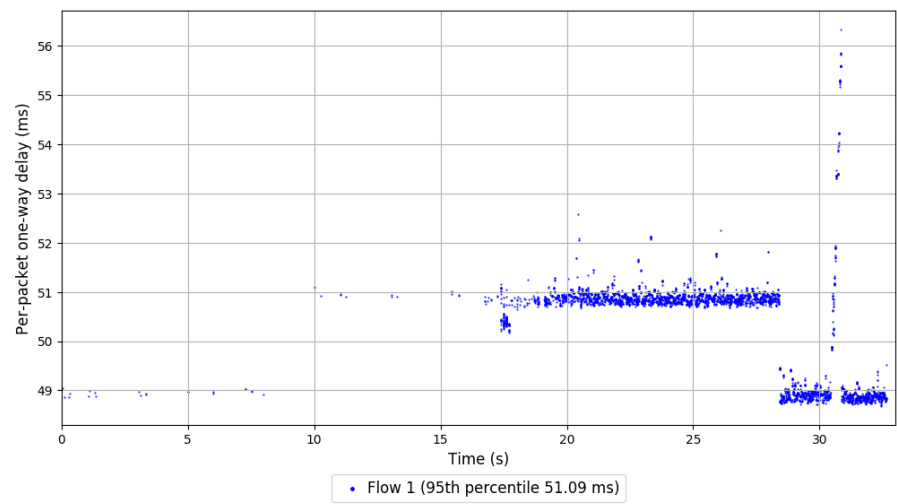
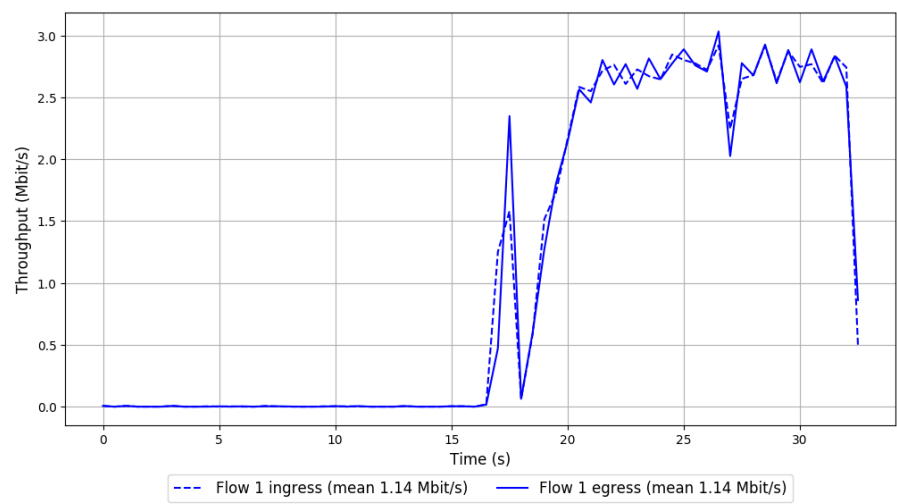
-- Flow 1:

Average throughput: 1.14 Mbit/s

95th percentile per-packet one-way delay: 51.091 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-16 18:44:16

End at: 2018-01-16 18:44:46

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.644 ms

Loss rate: 0.00%

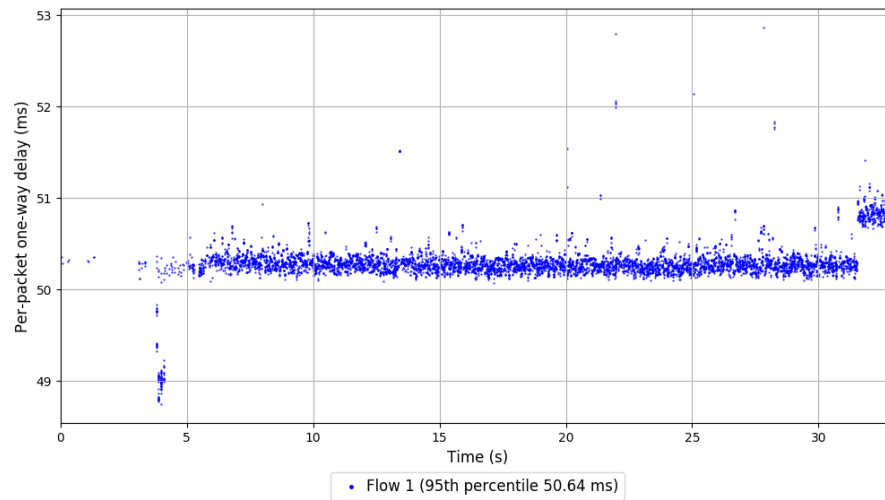
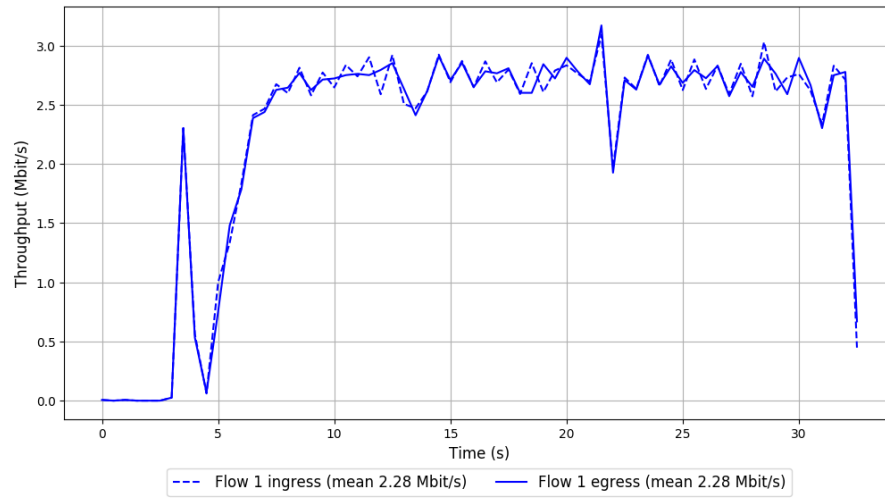
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.644 ms

Loss rate: 0.00%

## Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-16 18:58:35

End at: 2018-01-16 18:59:05

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.989 ms

Loss rate: 0.05%

-- Flow 1:

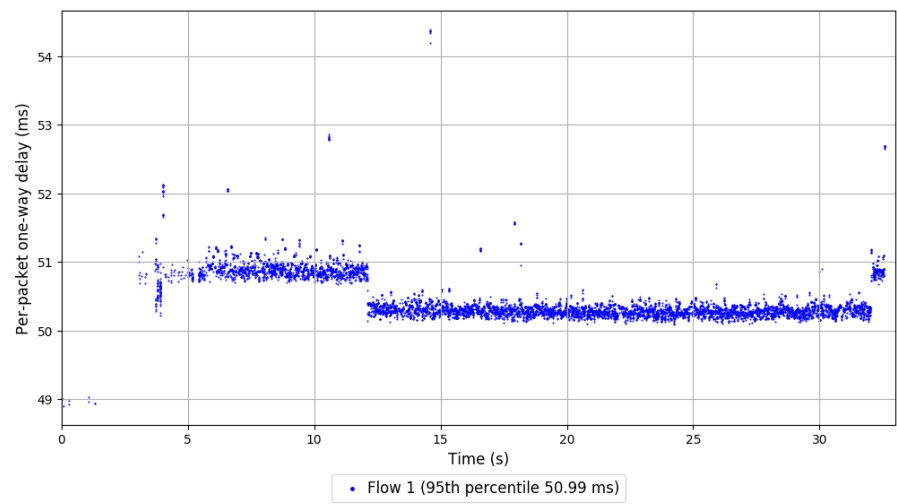
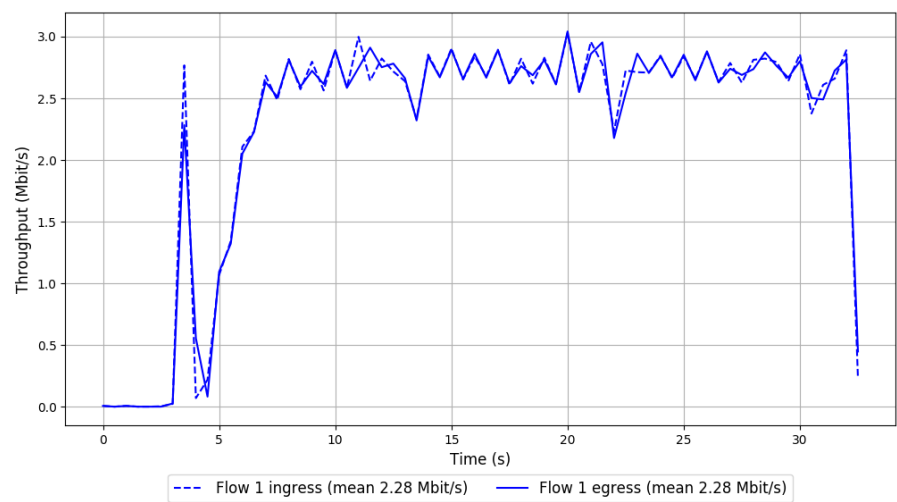
Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.989 ms

Loss rate: 0.05%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-16 19:12:48

End at: 2018-01-16 19:13:18

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.00%

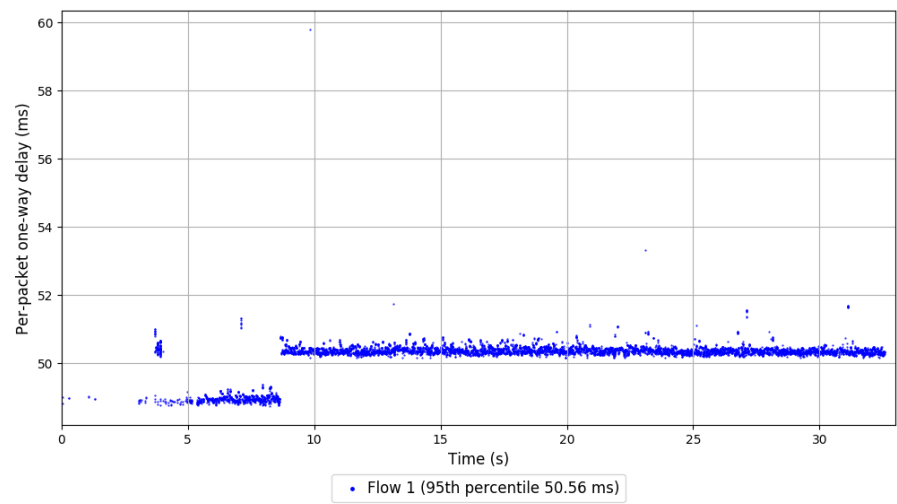
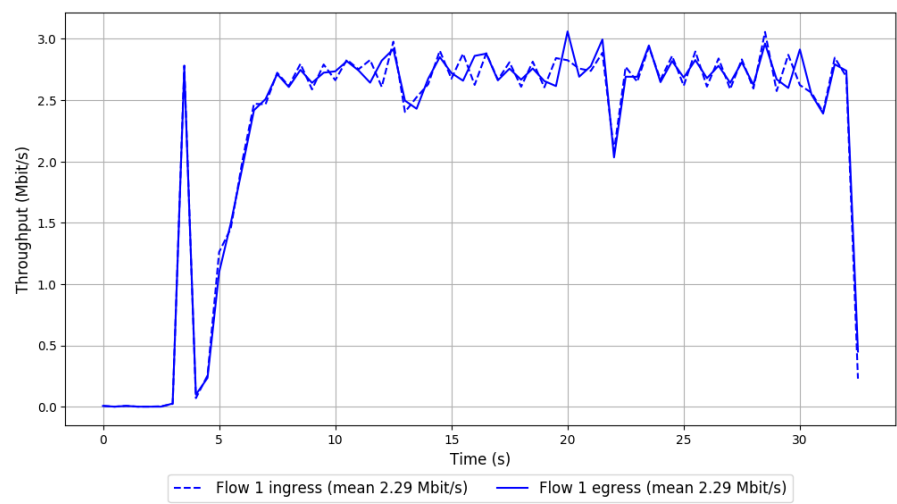
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

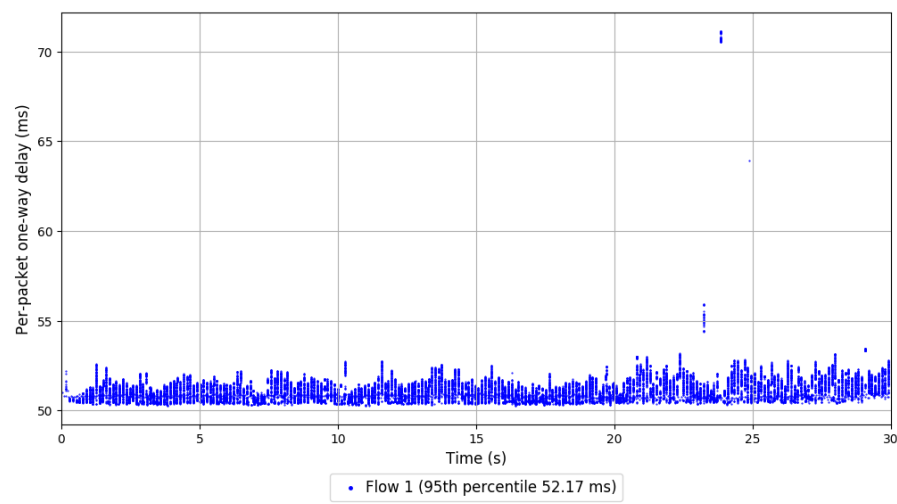
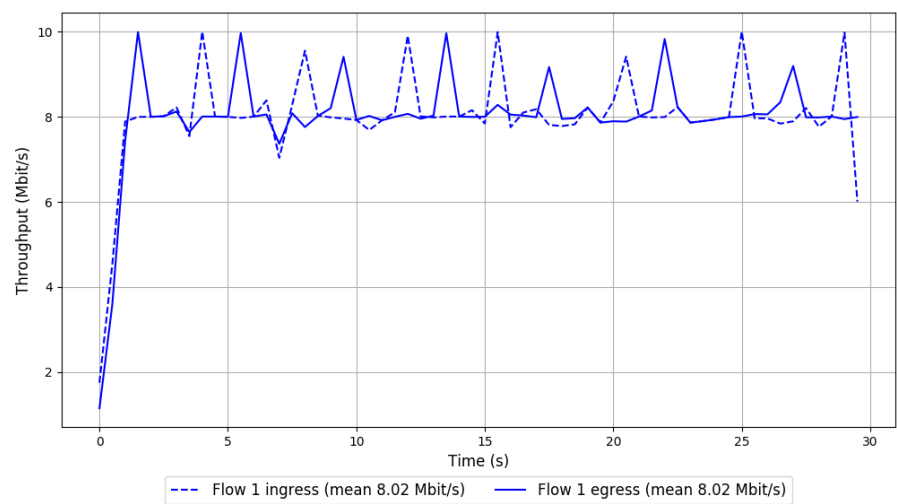


```
Run 1: Statistics of Sprout

Start at: 2018-01-16 17:11:25
End at: 2018-01-16 17:11:55

# Below is generated by plot.py at 2018-01-16 21:19:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 52.169 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 8.02 Mbit/s
95th percentile per-packet one-way delay: 52.169 ms
Loss rate: 0.01%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-16 17:25:42

End at: 2018-01-16 17:26:12

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 52.402 ms

Loss rate: 0.00%

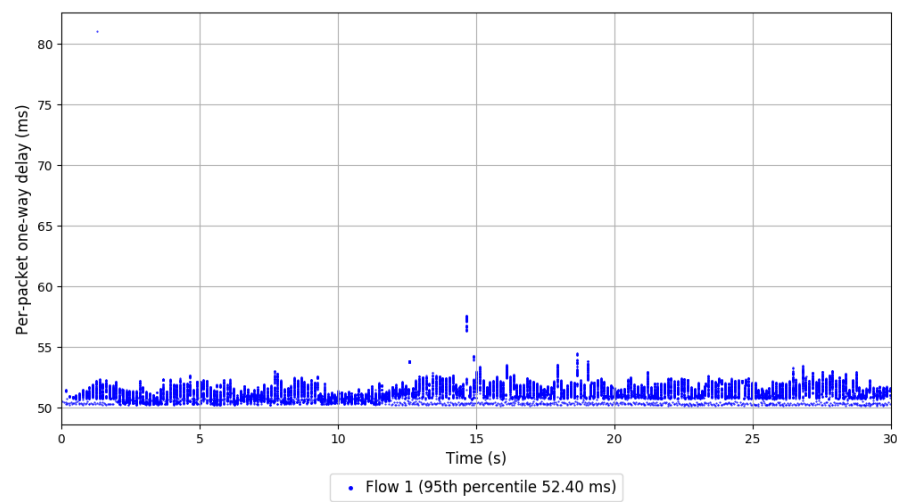
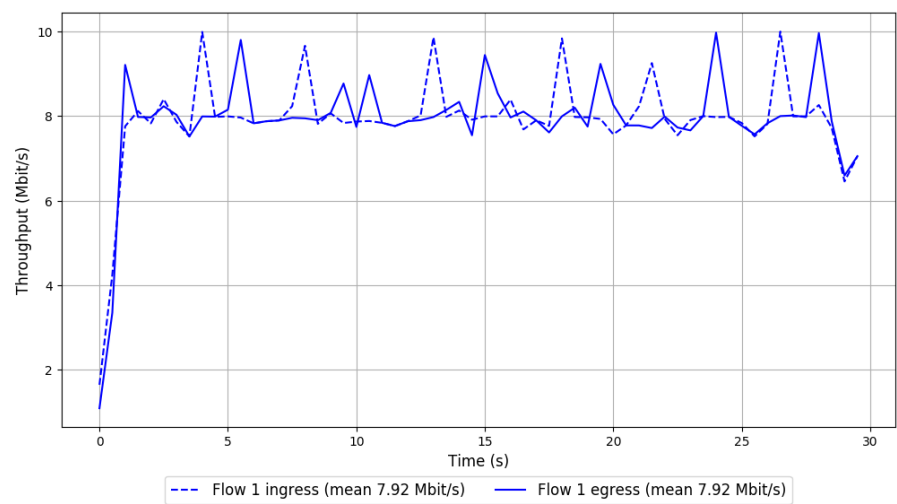
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 52.402 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-16 17:39:49

End at: 2018-01-16 17:40:19

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 52.401 ms

Loss rate: 0.37%

-- Flow 1:

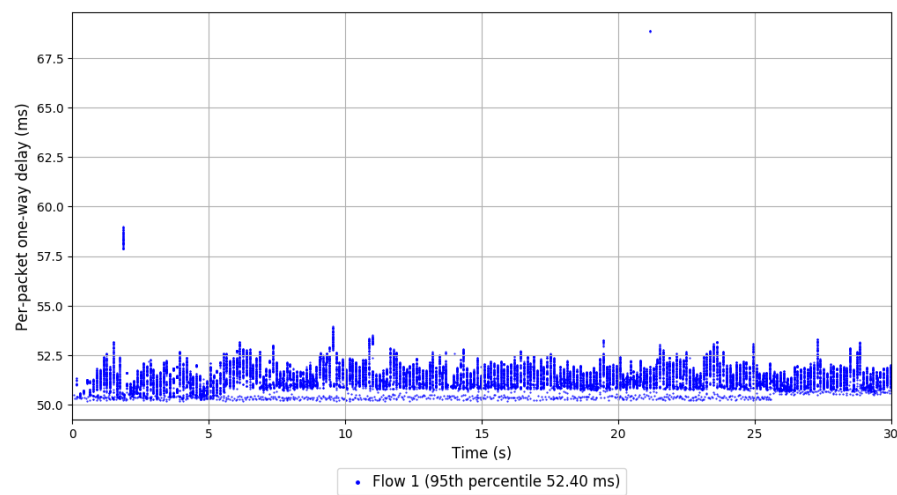
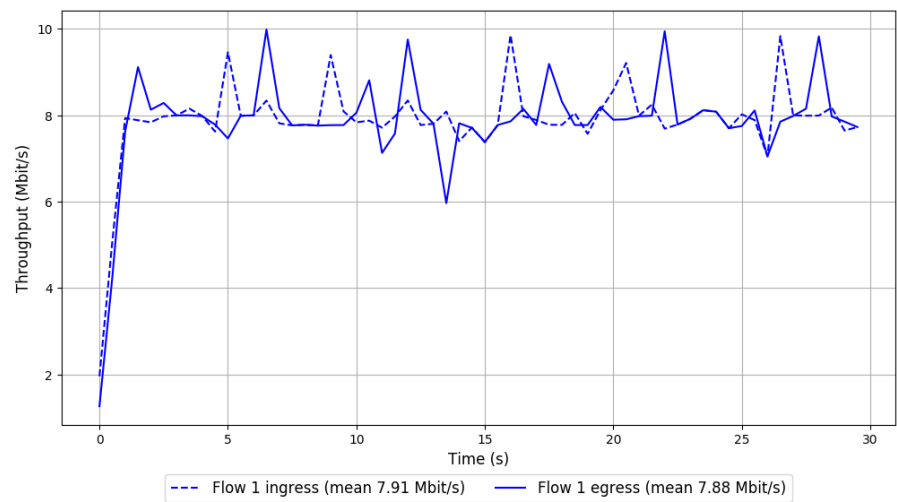
Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 52.401 ms

Loss rate: 0.37%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-16 17:53:55

End at: 2018-01-16 17:54:25

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 52.372 ms

Loss rate: 0.42%

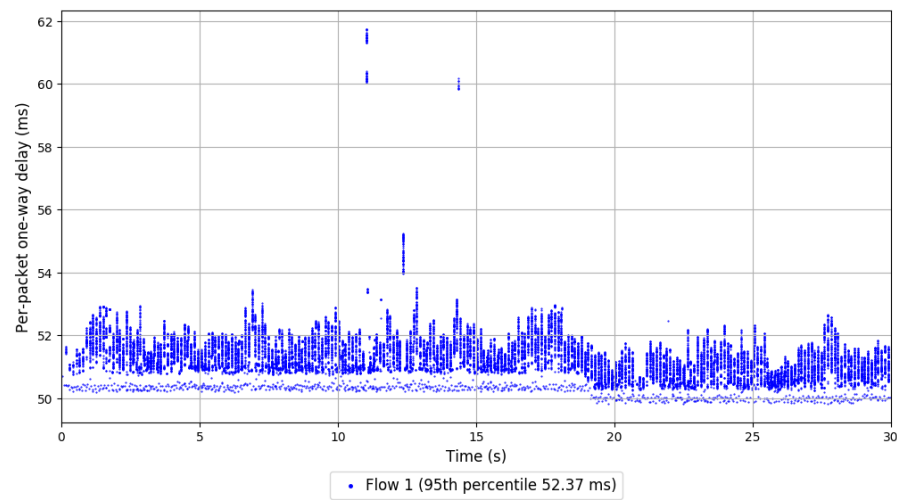
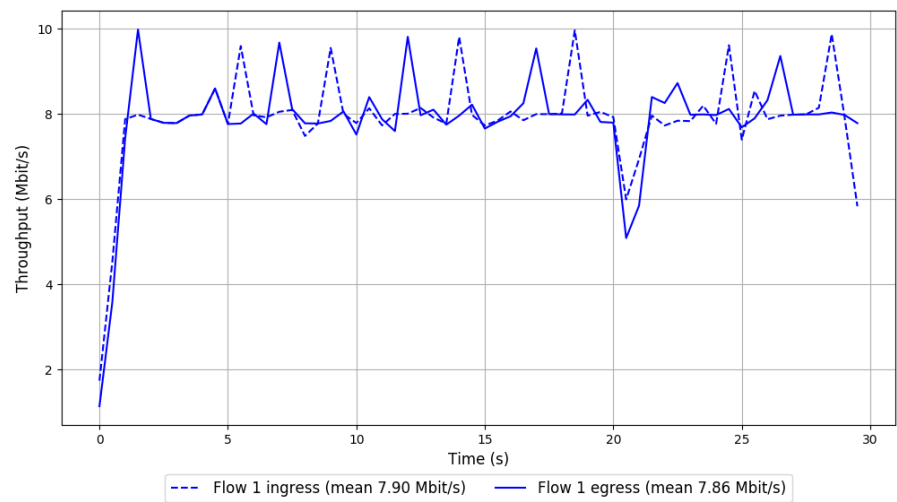
-- Flow 1:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 52.372 ms

Loss rate: 0.42%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-16 18:07:37

End at: 2018-01-16 18:08:07

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 52.358 ms

Loss rate: 0.00%

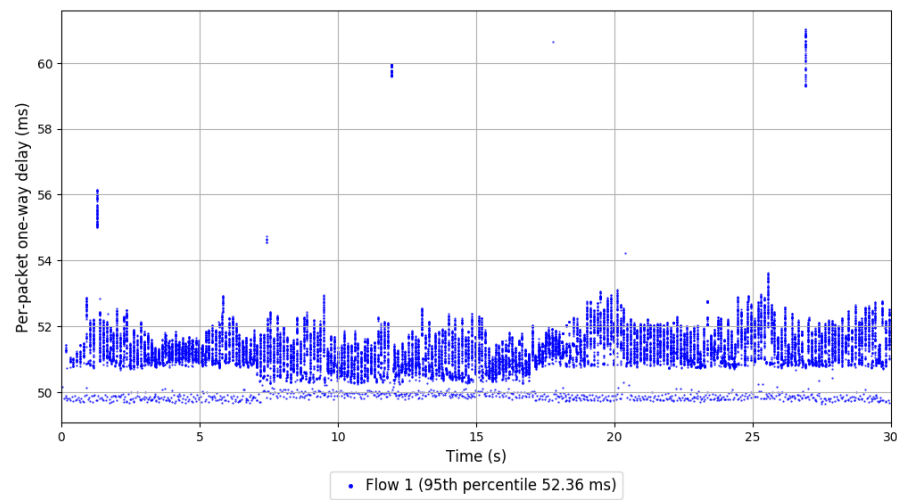
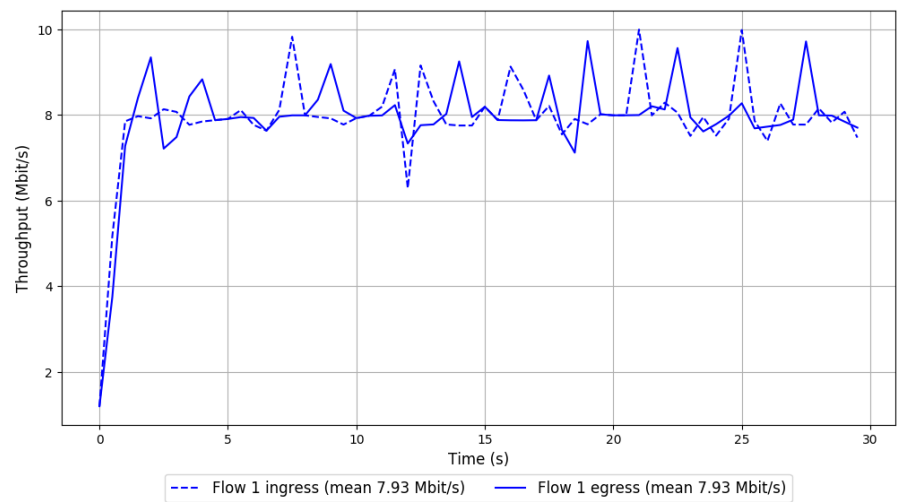
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 52.358 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-16 18:21:43

End at: 2018-01-16 18:22:13

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.380 ms

Loss rate: 0.02%

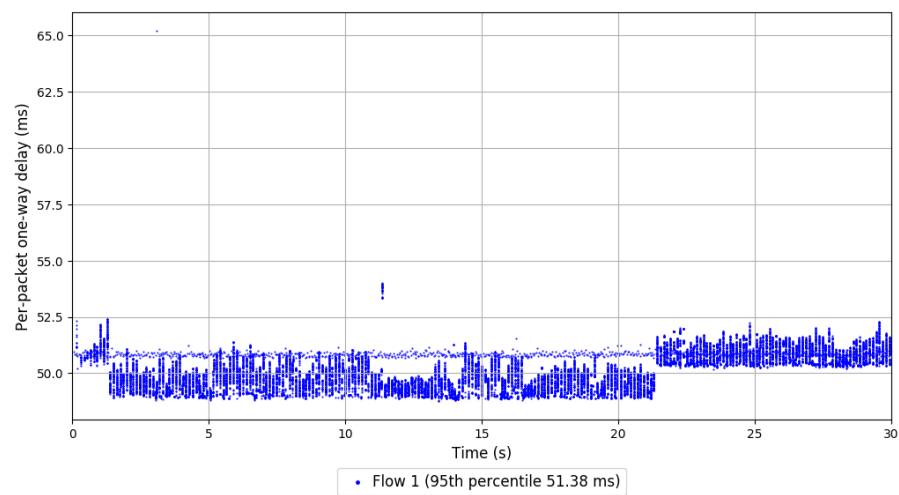
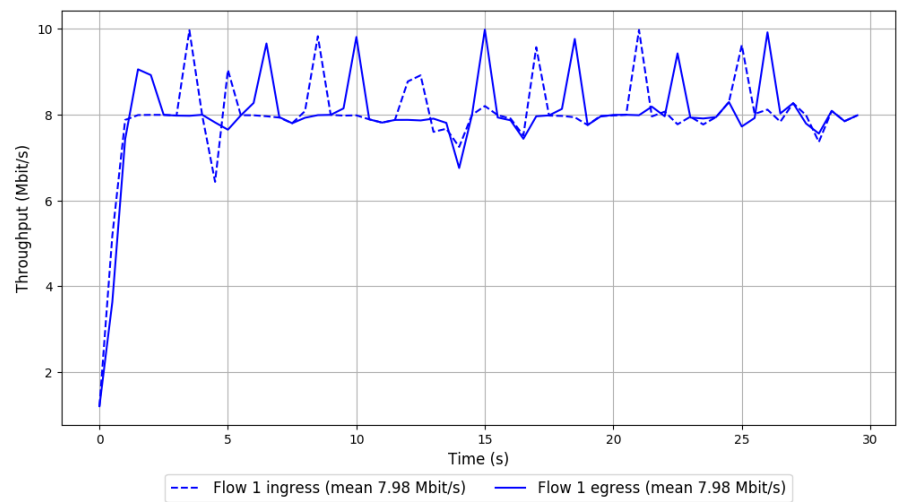
-- Flow 1:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 51.380 ms

Loss rate: 0.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-16 18:35:42

End at: 2018-01-16 18:36:12

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 52.553 ms

Loss rate: 0.00%

-- Flow 1:

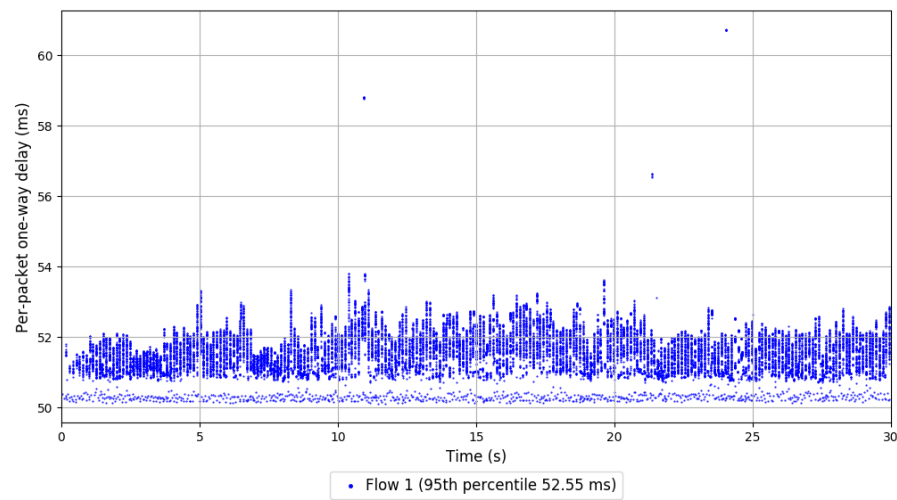
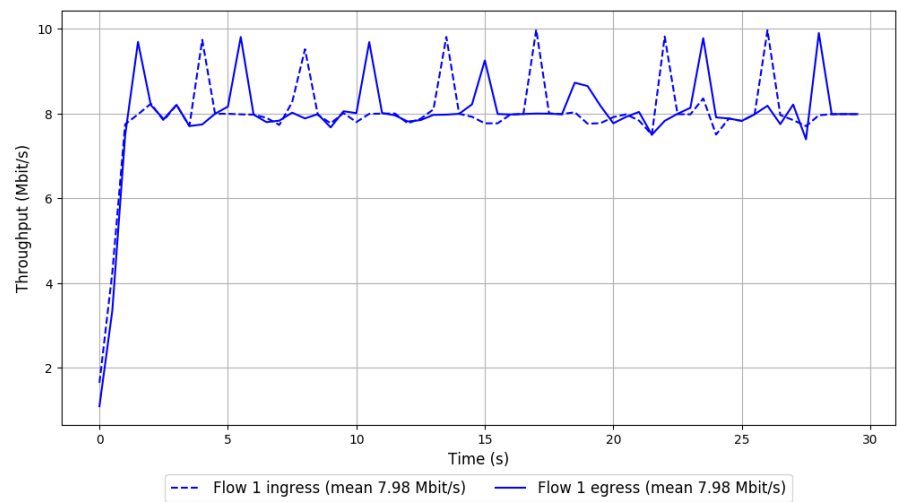
Average throughput: 7.98 Mbit/s

95th percentile per-packet one-way delay: 52.553 ms

Loss rate: 0.00%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-16 18:49:28

End at: 2018-01-16 18:49:58

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.979 ms

Loss rate: 0.00%

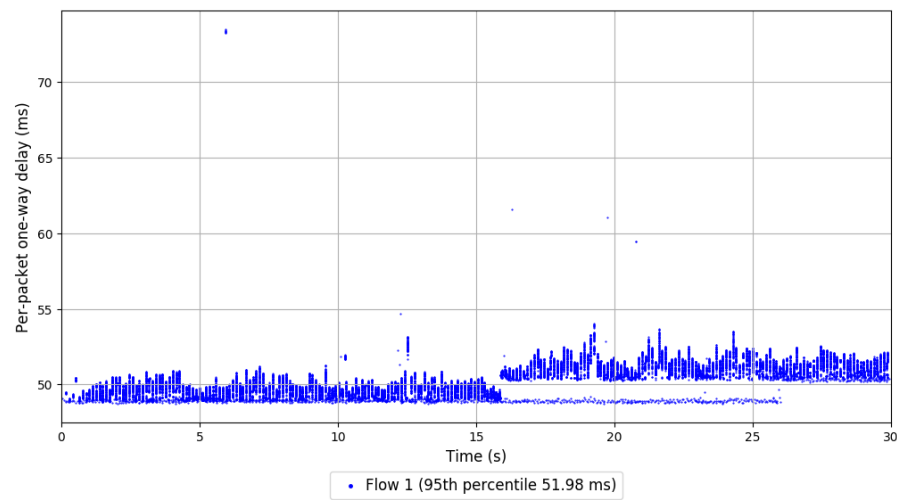
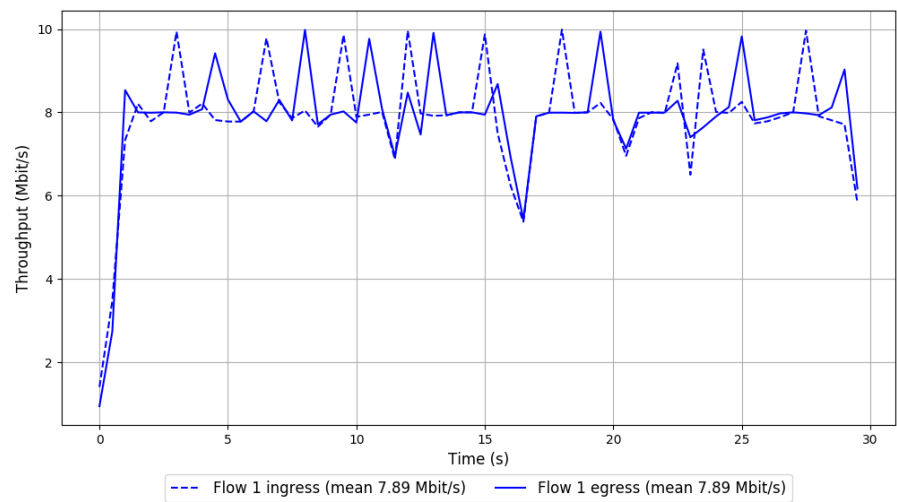
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.979 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-16 19:03:42

End at: 2018-01-16 19:04:12

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 52.059 ms

Loss rate: 0.42%

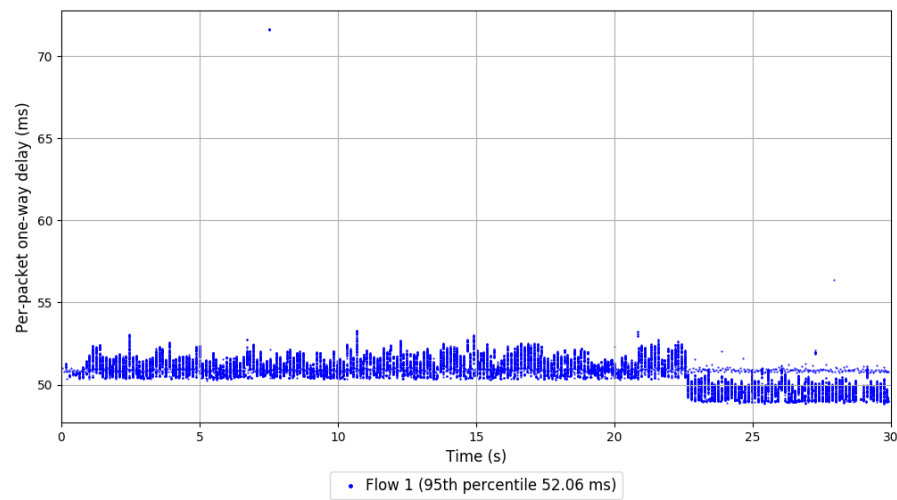
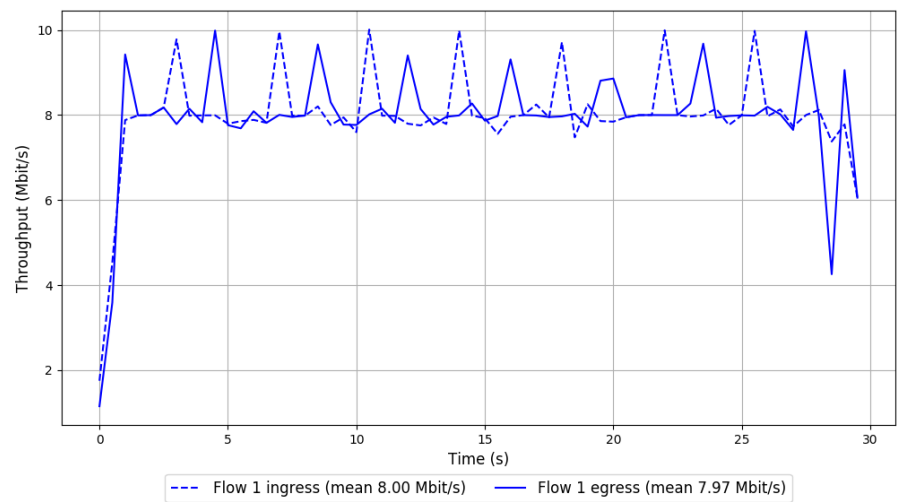
-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 52.059 ms

Loss rate: 0.42%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-16 19:18:02

End at: 2018-01-16 19:18:32

# Below is generated by plot.py at 2018-01-16 21:19:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.725 ms

Loss rate: 0.00%

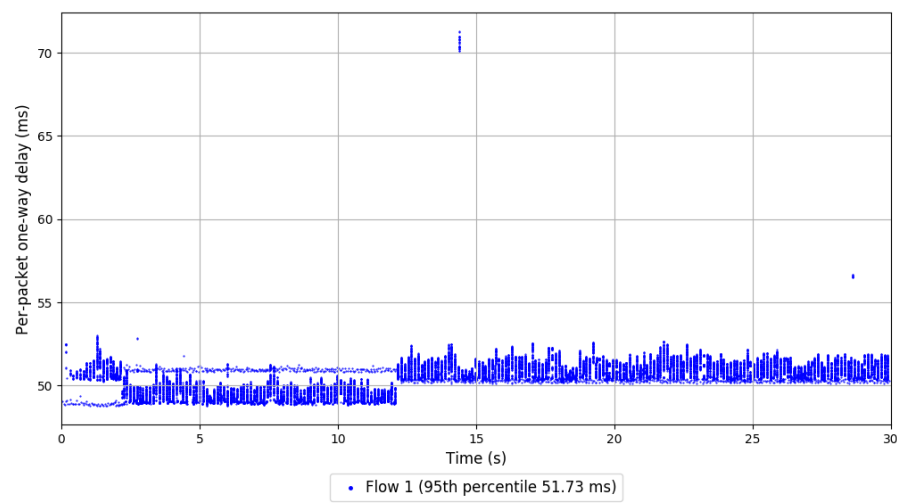
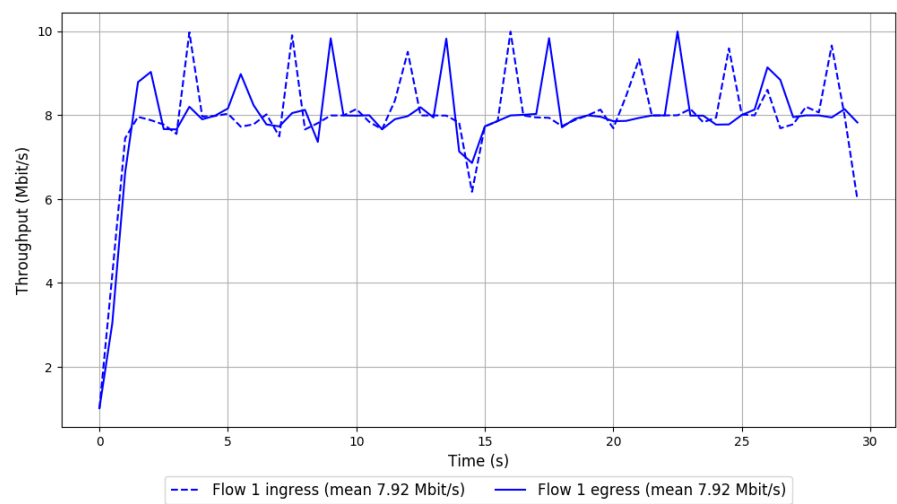
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.725 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



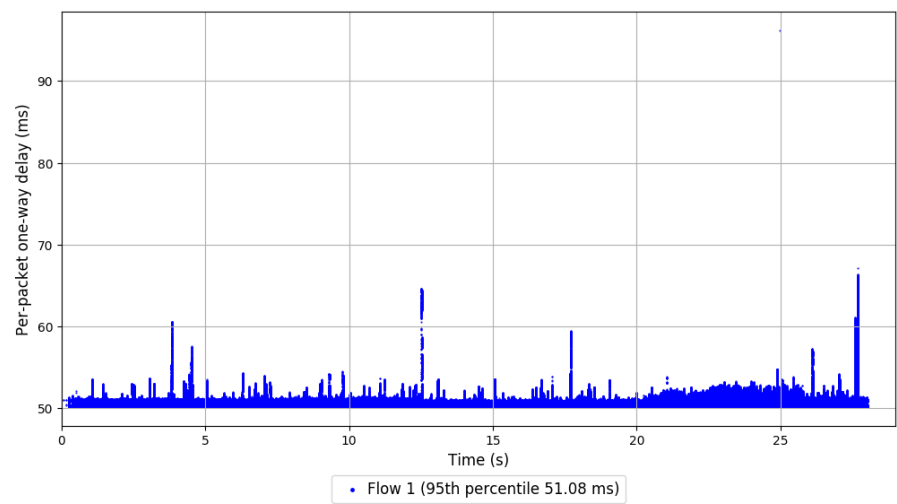
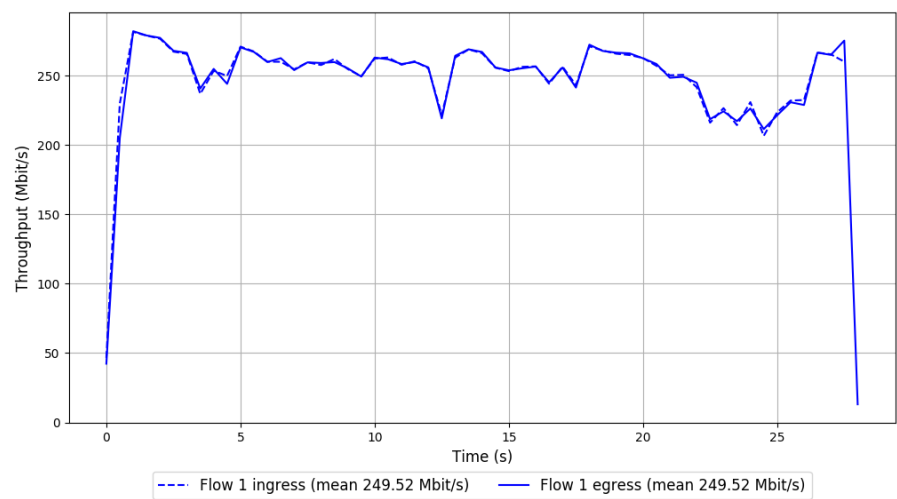
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-16 17:08:50
End at: 2018-01-16 17:09:20

# Below is generated by plot.py at 2018-01-16 21:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.52 Mbit/s
95th percentile per-packet one-way delay: 51.083 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 249.52 Mbit/s
95th percentile per-packet one-way delay: 51.083 ms
Loss rate: 0.00%
```



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

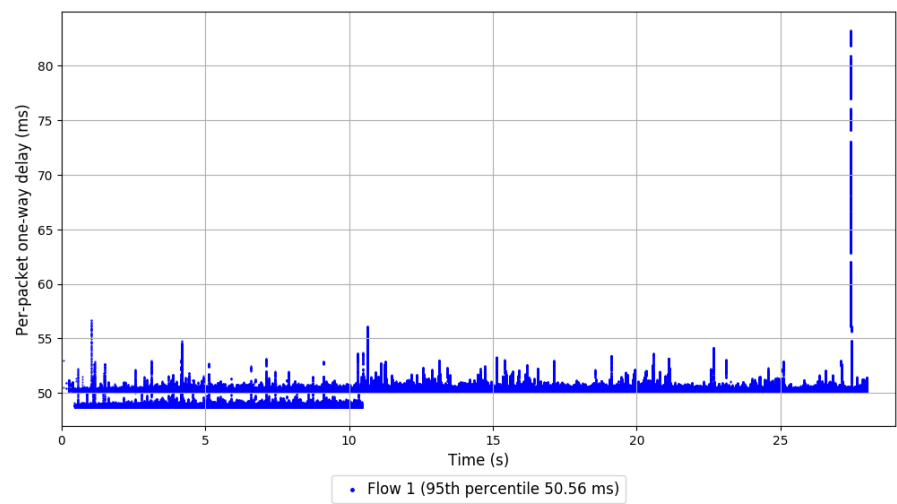
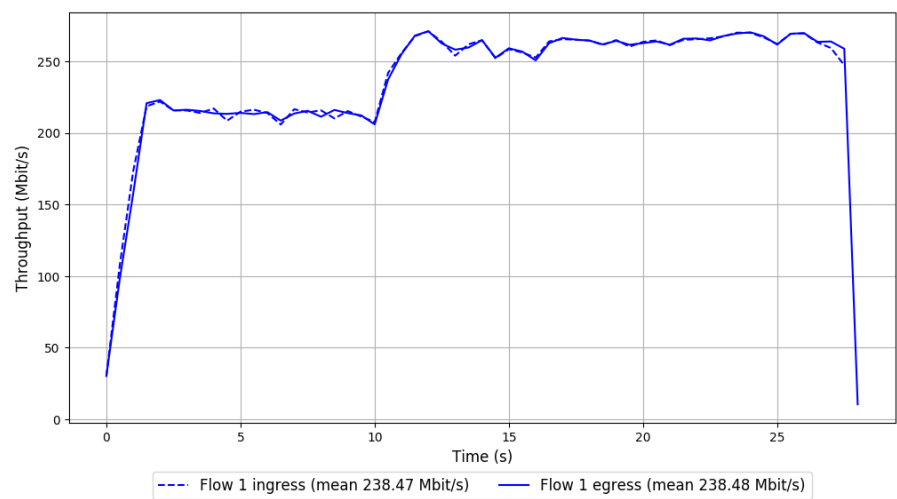


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-16 17:23:12
End at: 2018-01-16 17:23:42

# Below is generated by plot.py at 2018-01-16 21:24:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.48 Mbit/s
95th percentile per-packet one-way delay: 50.562 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 238.48 Mbit/s
95th percentile per-packet one-way delay: 50.562 ms
Loss rate: 0.00%
```

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

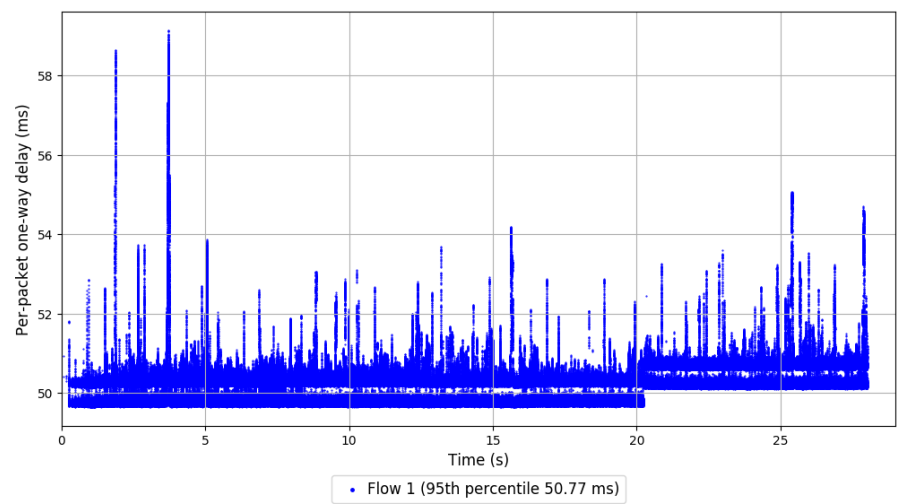
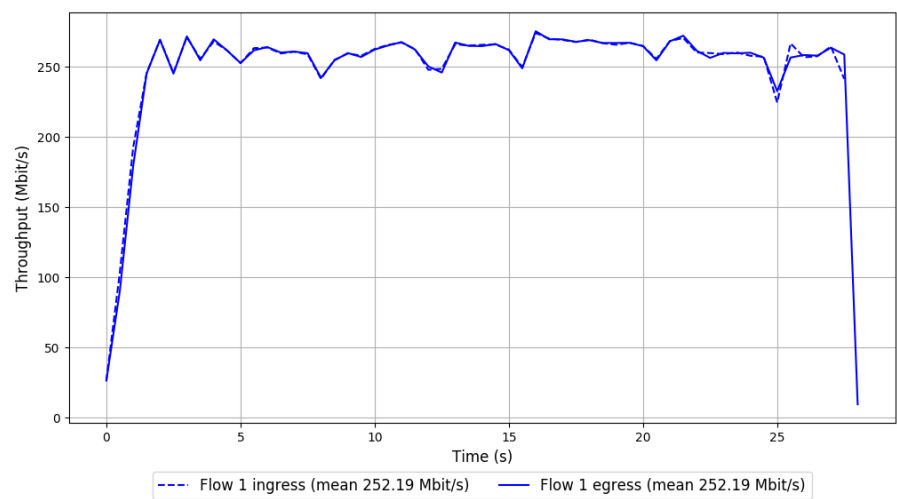


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-16 17:37:22
End at: 2018-01-16 17:37:52

# Below is generated by plot.py at 2018-01-16 21:24:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.19 Mbit/s
95th percentile per-packet one-way delay: 50.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 252.19 Mbit/s
95th percentile per-packet one-way delay: 50.775 ms
Loss rate: 0.00%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-16 17:51:26

End at: 2018-01-16 17:51:56

# Below is generated by plot.py at 2018-01-16 21:24:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 250.71 Mbit/s

95th percentile per-packet one-way delay: 50.954 ms

Loss rate: 0.00%

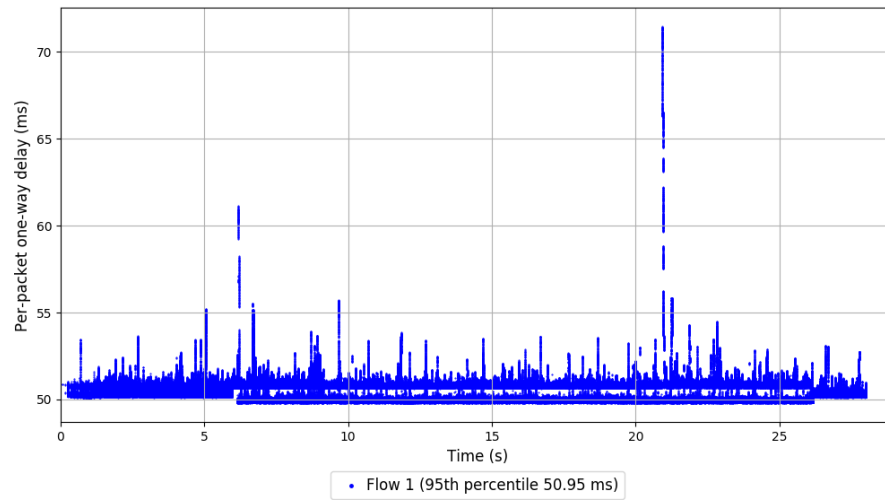
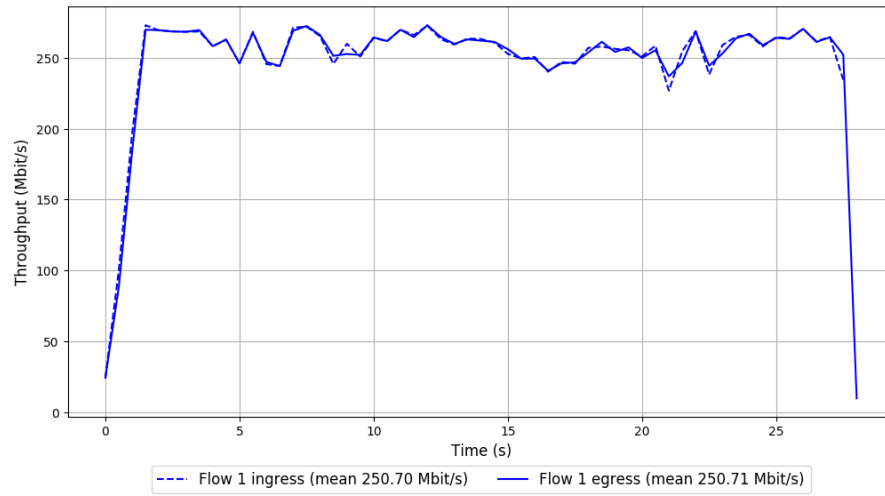
-- Flow 1:

Average throughput: 250.71 Mbit/s

95th percentile per-packet one-way delay: 50.954 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-16 18:05:19

End at: 2018-01-16 18:05:49

# Below is generated by plot.py at 2018-01-16 21:24:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 144.22 Mbit/s

95th percentile per-packet one-way delay: 50.921 ms

Loss rate: 0.00%

-- Flow 1:

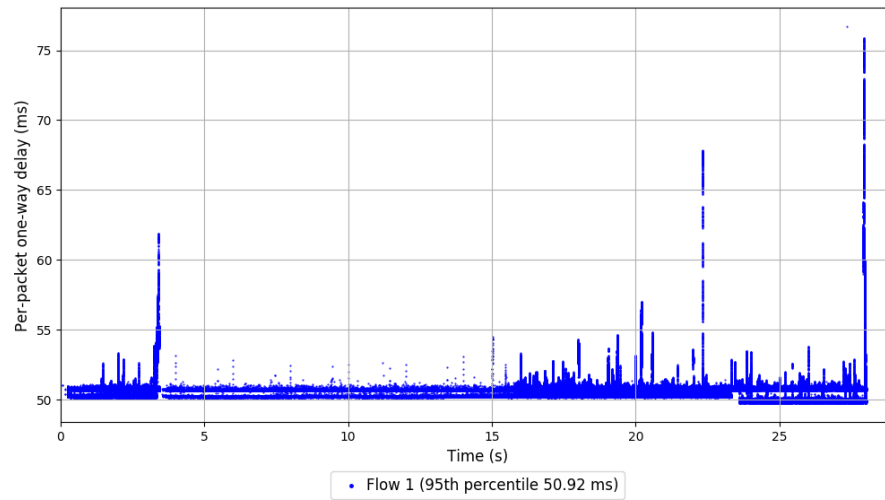
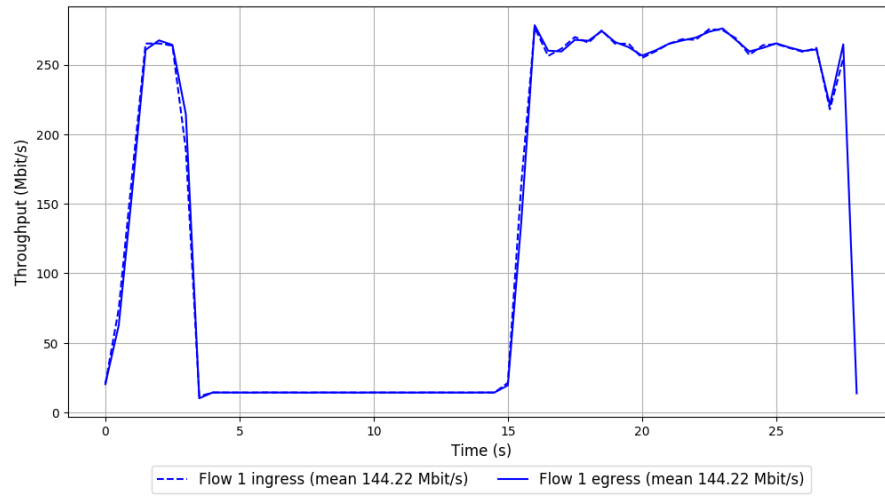
Average throughput: 144.22 Mbit/s

95th percentile per-packet one-way delay: 50.921 ms

Loss rate: 0.00%



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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-16 18:19:17

End at: 2018-01-16 18:19:47

# Below is generated by plot.py at 2018-01-16 21:24:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 204.02 Mbit/s

95th percentile per-packet one-way delay: 50.729 ms

Loss rate: 0.00%

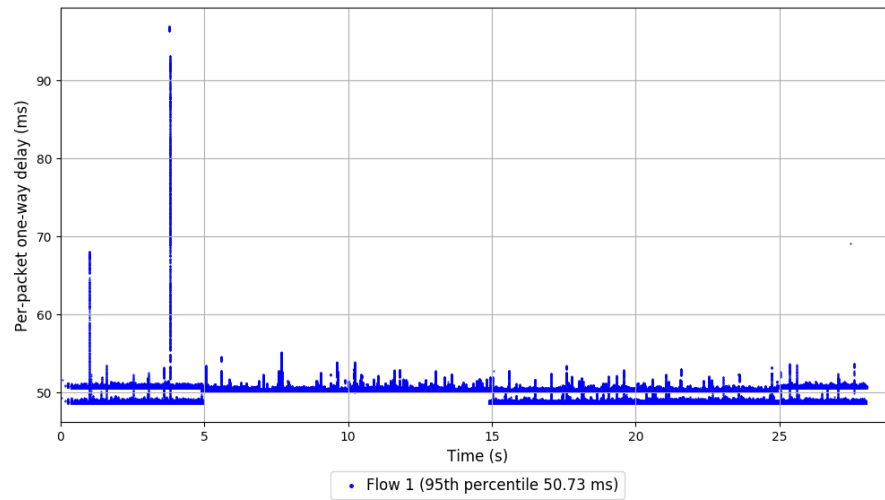
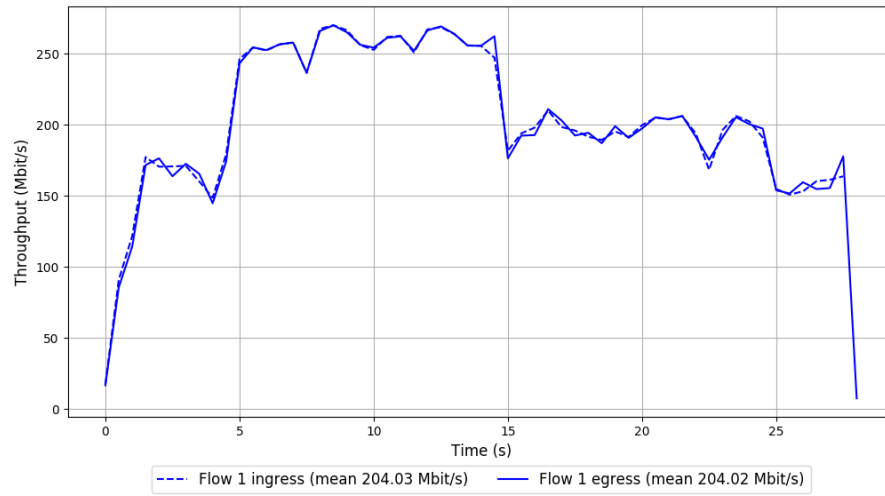
-- Flow 1:

Average throughput: 204.02 Mbit/s

95th percentile per-packet one-way delay: 50.729 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-16 18:33:20

End at: 2018-01-16 18:33:50

# Below is generated by plot.py at 2018-01-16 21:24:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 184.92 Mbit/s

95th percentile per-packet one-way delay: 50.871 ms

Loss rate: 0.00%

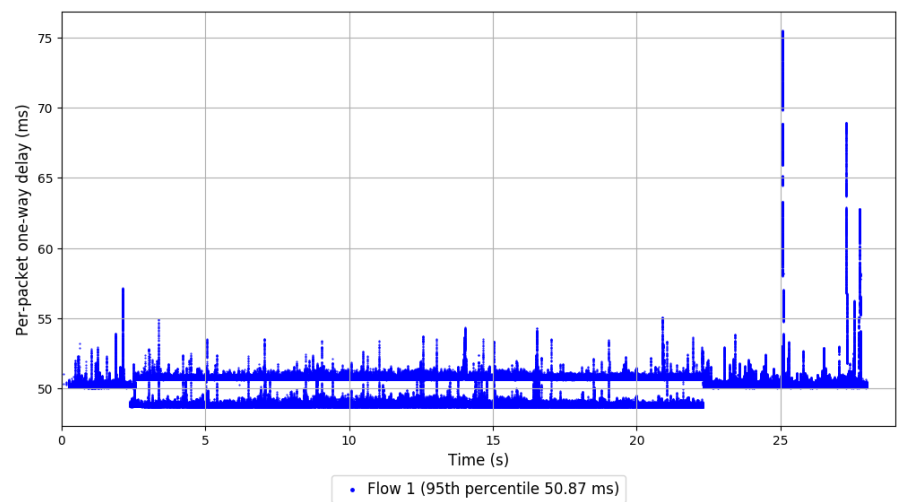
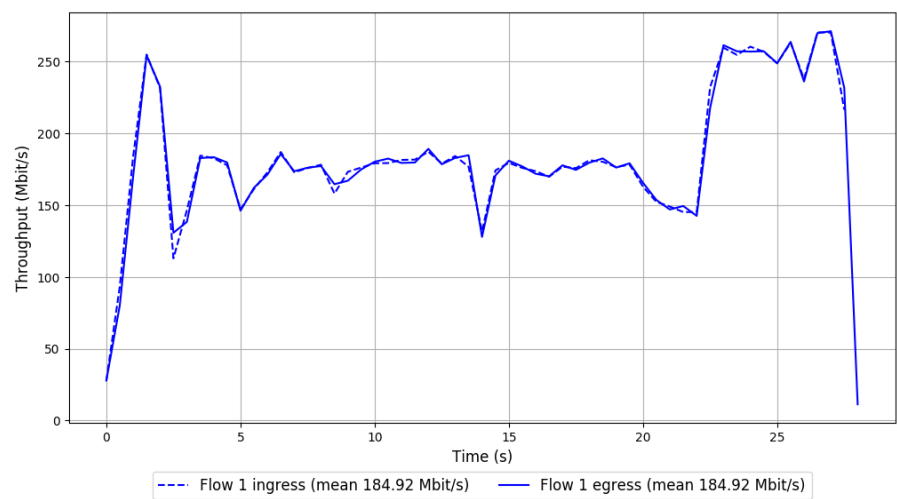
-- Flow 1:

Average throughput: 184.92 Mbit/s

95th percentile per-packet one-way delay: 50.871 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-16 18:47:08

End at: 2018-01-16 18:47:38

# Below is generated by plot.py at 2018-01-16 21:24:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 147.89 Mbit/s

95th percentile per-packet one-way delay: 50.487 ms

Loss rate: 0.00%

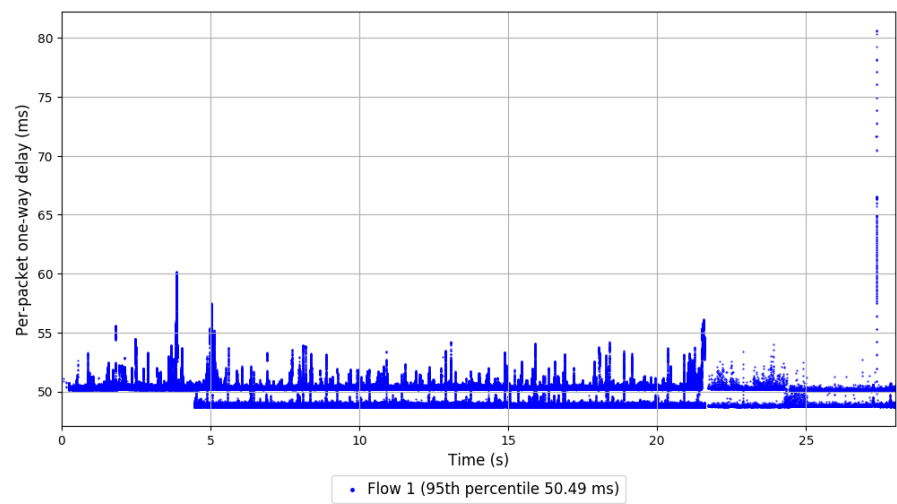
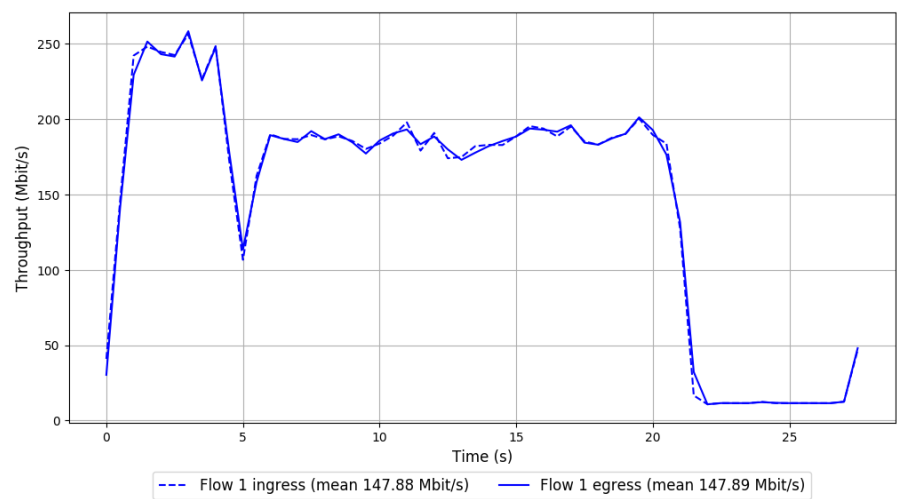
-- Flow 1:

Average throughput: 147.89 Mbit/s

95th percentile per-packet one-way delay: 50.487 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-16 19:01:18

End at: 2018-01-16 19:01:49

# Below is generated by plot.py at 2018-01-16 21:28:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.90 Mbit/s

95th percentile per-packet one-way delay: 50.828 ms

Loss rate: 0.00%

-- Flow 1:

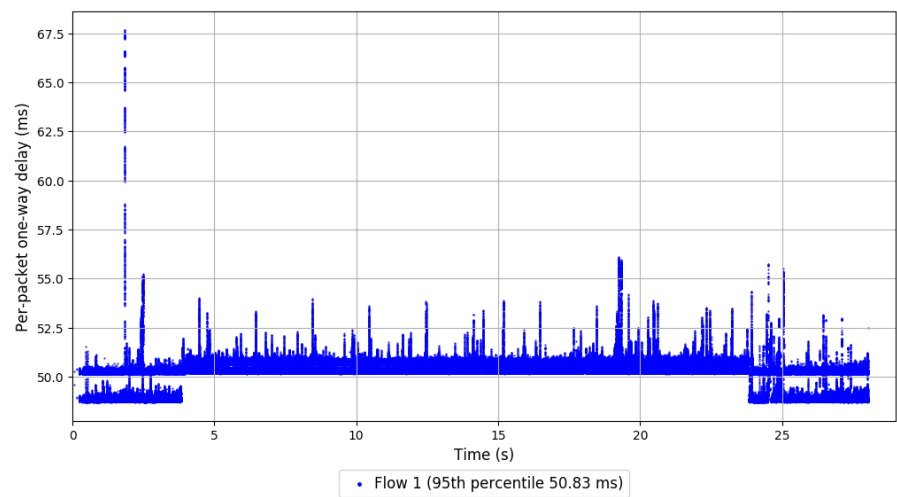
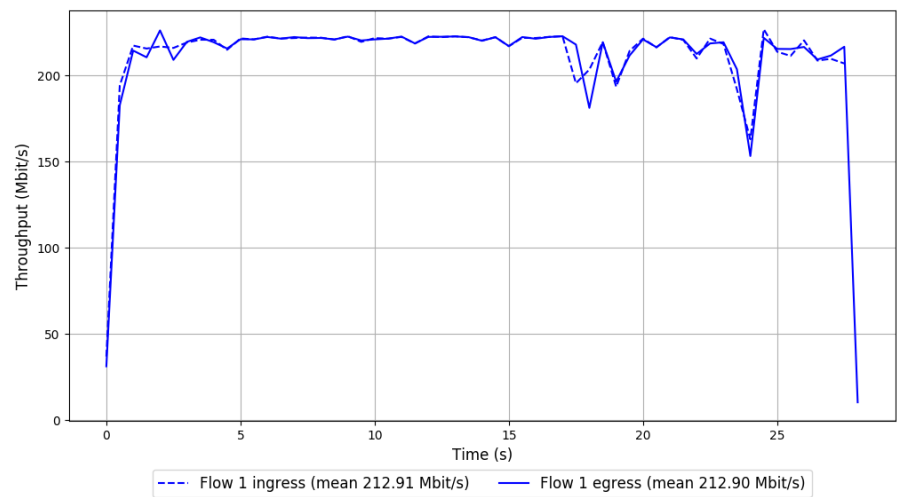
Average throughput: 212.90 Mbit/s

95th percentile per-packet one-way delay: 50.828 ms

Loss rate: 0.00%



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

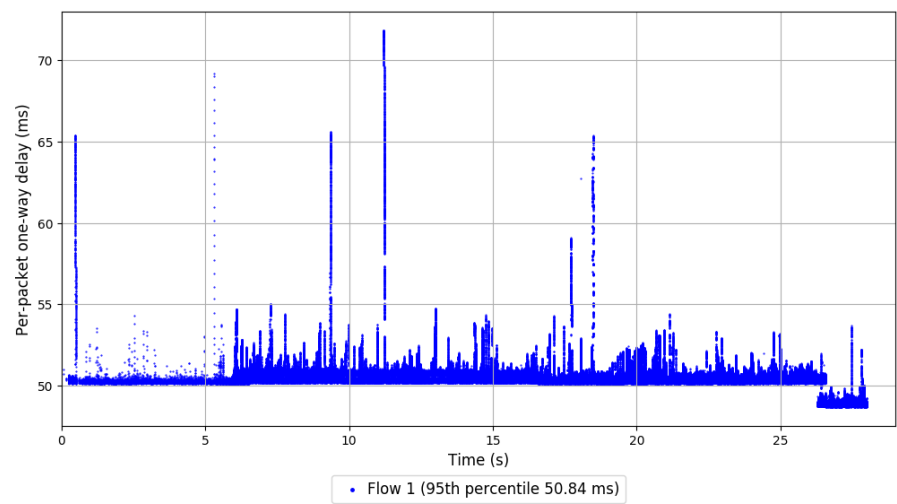
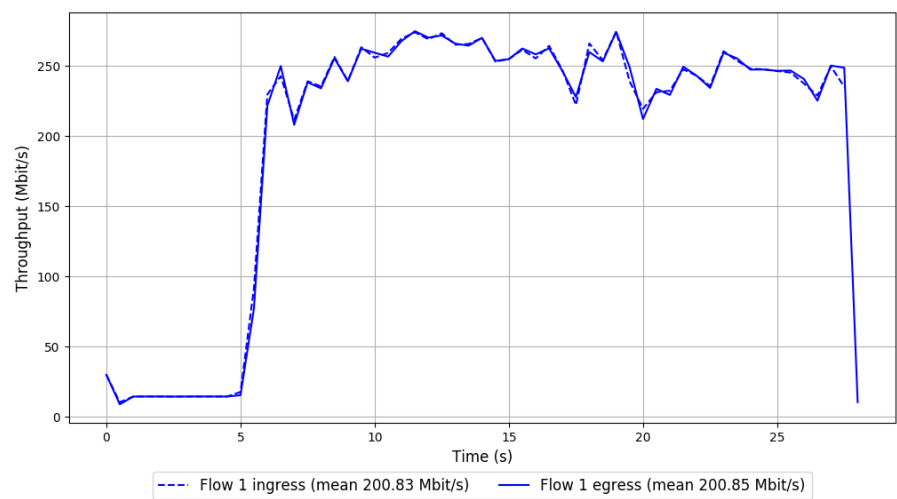


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-16 19:15:36
End at: 2018-01-16 19:16:06

# Below is generated by plot.py at 2018-01-16 21:29:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.85 Mbit/s
95th percentile per-packet one-way delay: 50.841 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.85 Mbit/s
95th percentile per-packet one-way delay: 50.841 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-16 17:10:38

End at: 2018-01-16 17:11:08

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 185.24 Mbit/s

95th percentile per-packet one-way delay: 61.324 ms

Loss rate: 0.09%

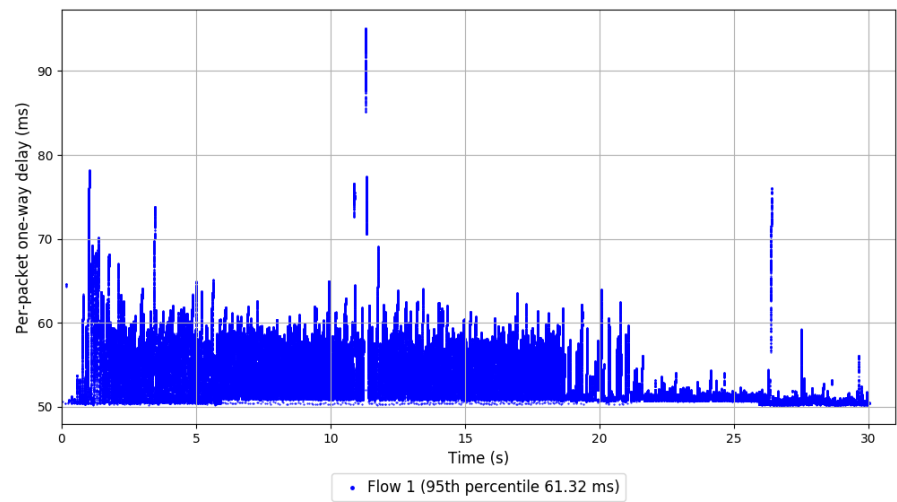
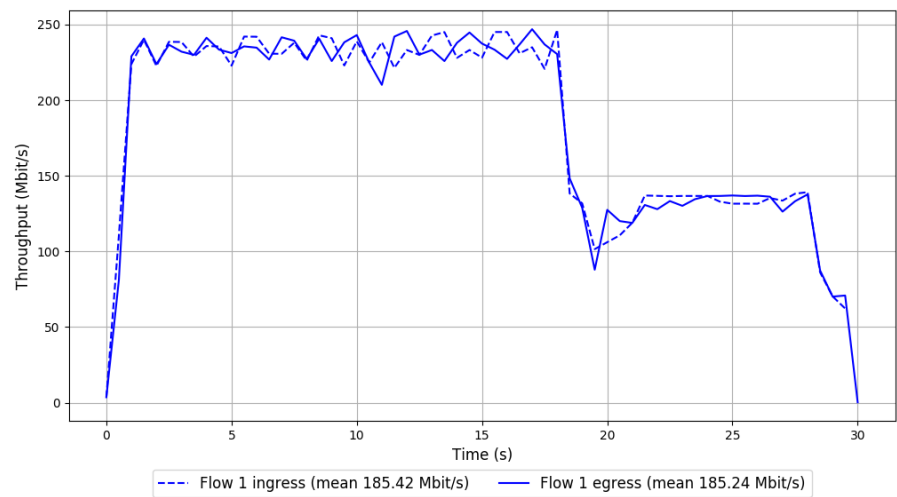
-- Flow 1:

Average throughput: 185.24 Mbit/s

95th percentile per-packet one-way delay: 61.324 ms

Loss rate: 0.09%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-16 17:24:58

End at: 2018-01-16 17:25:28

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 142.27 Mbit/s

95th percentile per-packet one-way delay: 52.047 ms

Loss rate: 0.12%

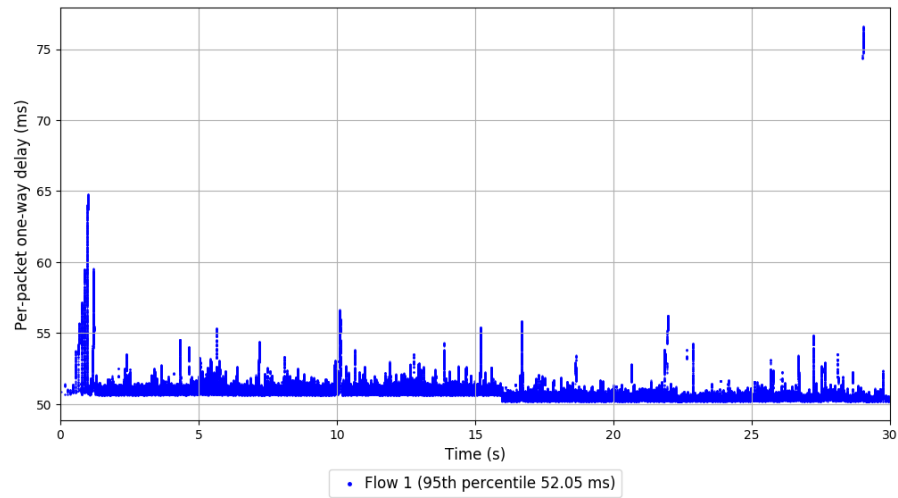
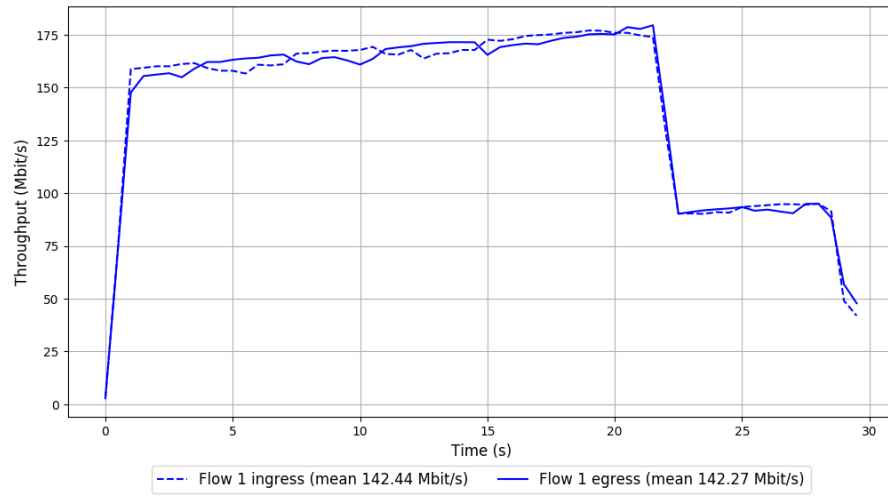
-- Flow 1:

Average throughput: 142.27 Mbit/s

95th percentile per-packet one-way delay: 52.047 ms

Loss rate: 0.12%

## Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-16 17:39:10

End at: 2018-01-16 17:39:40

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 36.52 Mbit/s

95th percentile per-packet one-way delay: 52.093 ms

Loss rate: 0.40%

-- Flow 1:

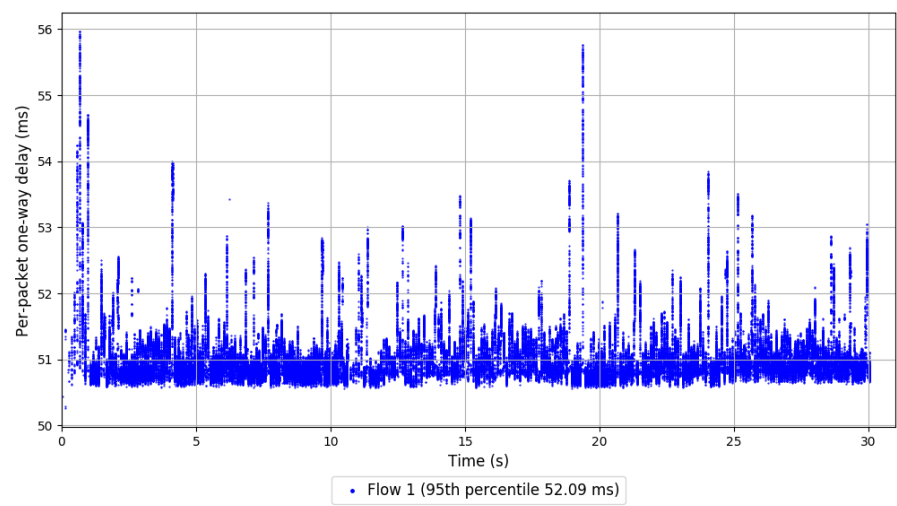
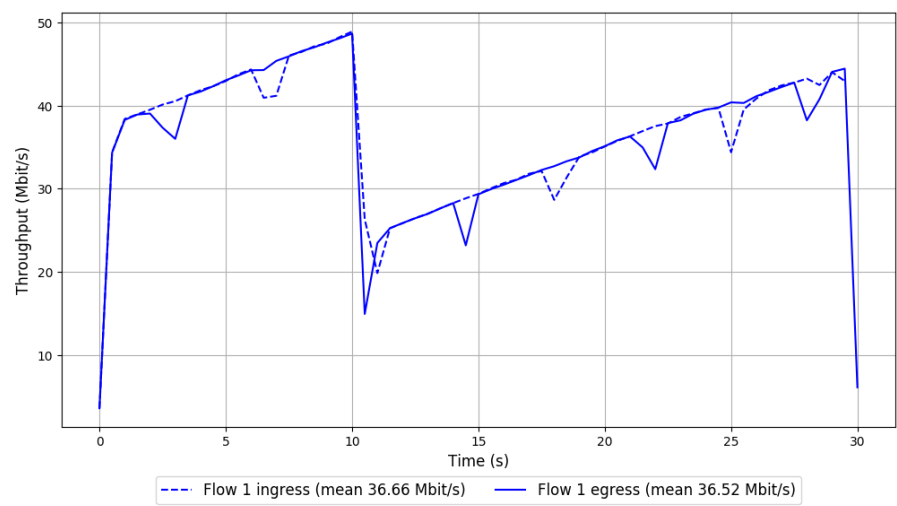
Average throughput: 36.52 Mbit/s

95th percentile per-packet one-way delay: 52.093 ms

Loss rate: 0.40%



Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-16 17:53:14

End at: 2018-01-16 17:53:44

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.63 Mbit/s

95th percentile per-packet one-way delay: 55.883 ms

Loss rate: 0.18%

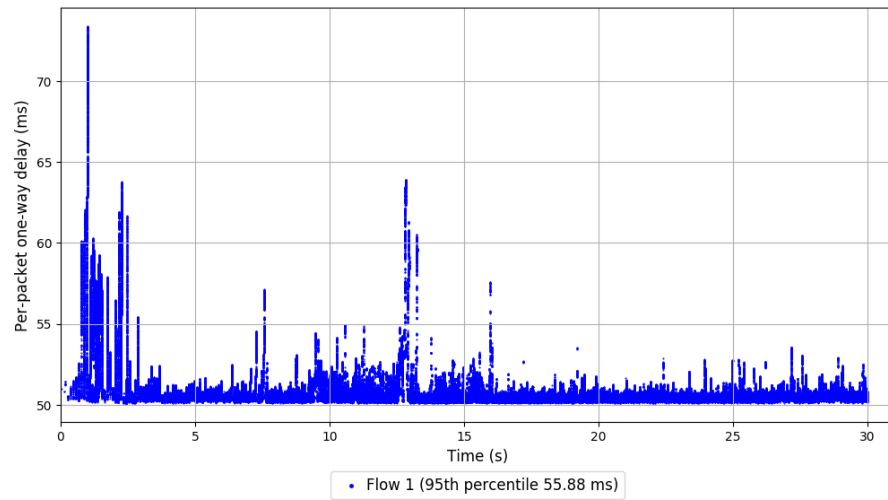
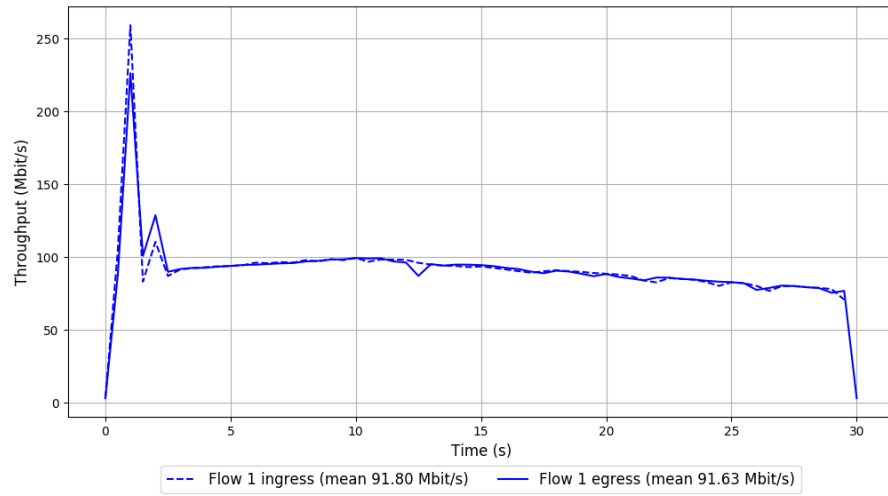
-- Flow 1:

Average throughput: 91.63 Mbit/s

95th percentile per-packet one-way delay: 55.883 ms

Loss rate: 0.18%

#### Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-16 18:06:58

End at: 2018-01-16 18:07:28

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 52.772 ms

Loss rate: 0.69%

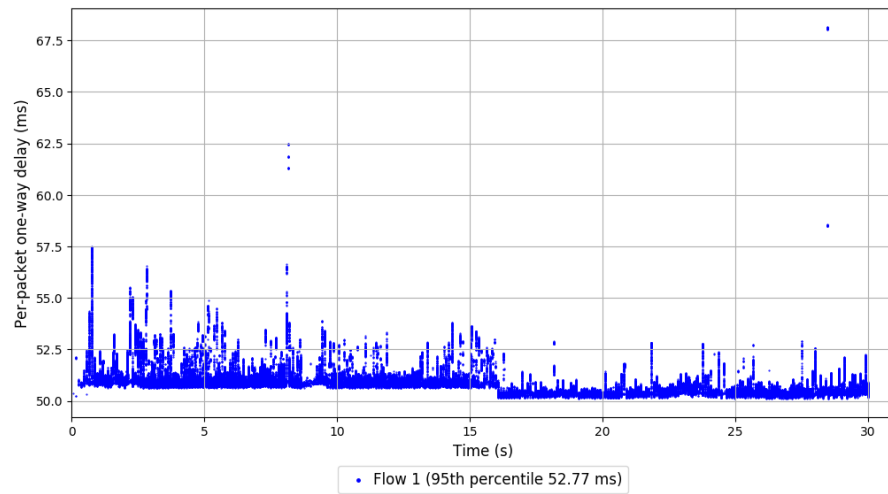
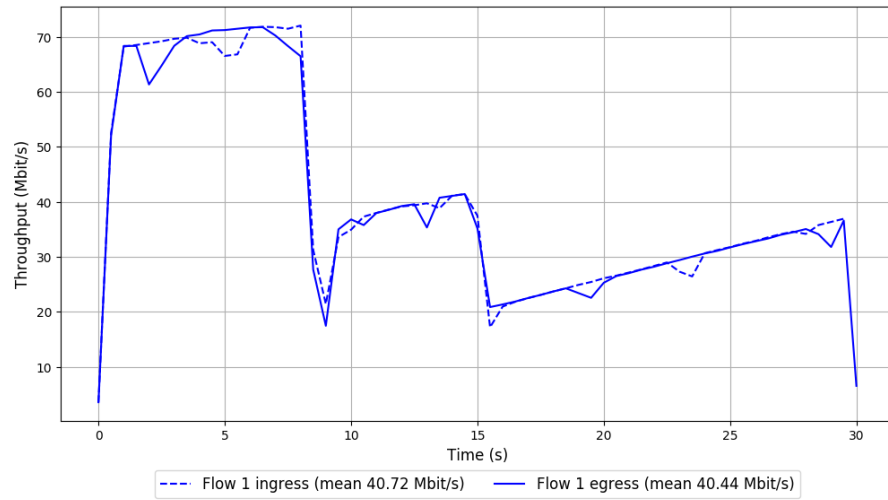
-- Flow 1:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 52.772 ms

Loss rate: 0.69%

### Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-16 18:21:00

End at: 2018-01-16 18:21:30

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 113.49 Mbit/s

95th percentile per-packet one-way delay: 52.835 ms

Loss rate: 0.11%

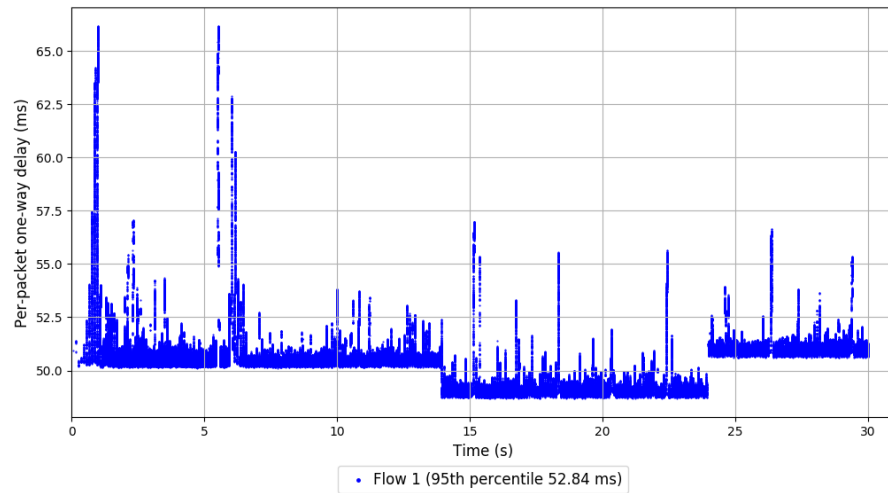
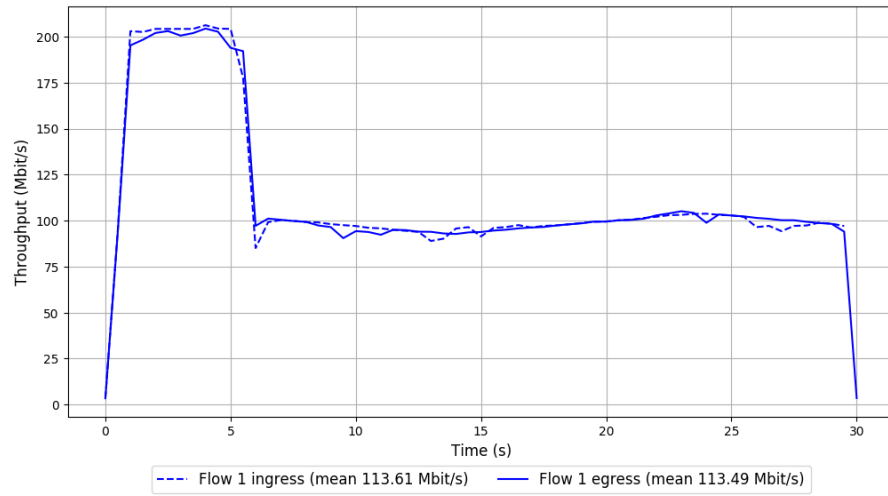
-- Flow 1:

Average throughput: 113.49 Mbit/s

95th percentile per-packet one-way delay: 52.835 ms

Loss rate: 0.11%

## Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-16 18:35:00

End at: 2018-01-16 18:35:30

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 81.09 Mbit/s

95th percentile per-packet one-way delay: 51.572 ms

Loss rate: 0.00%

-- Flow 1:

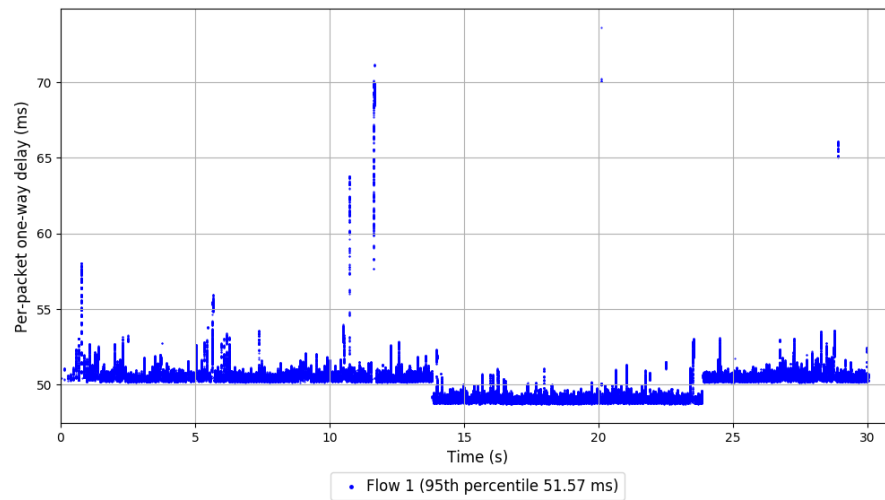
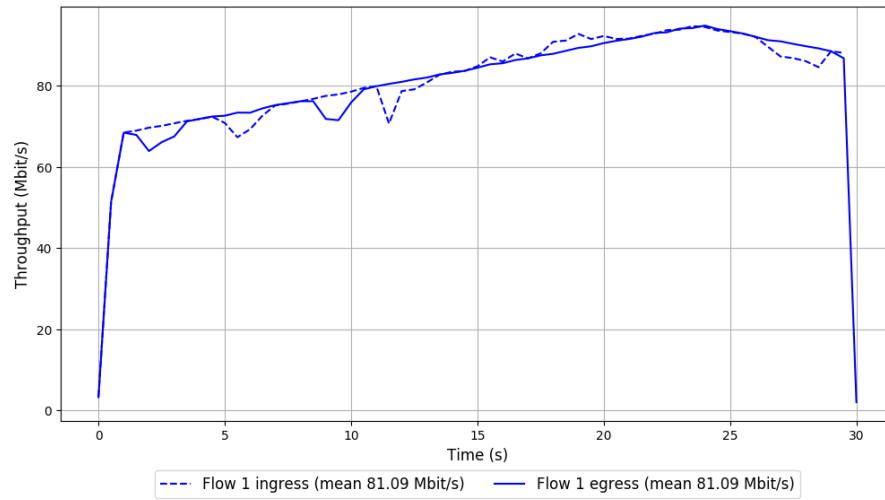
Average throughput: 81.09 Mbit/s

95th percentile per-packet one-way delay: 51.572 ms

Loss rate: 0.00%



### Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-16 18:48:46

End at: 2018-01-16 18:49:16

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 105.48 Mbit/s

95th percentile per-packet one-way delay: 52.478 ms

Loss rate: 0.00%

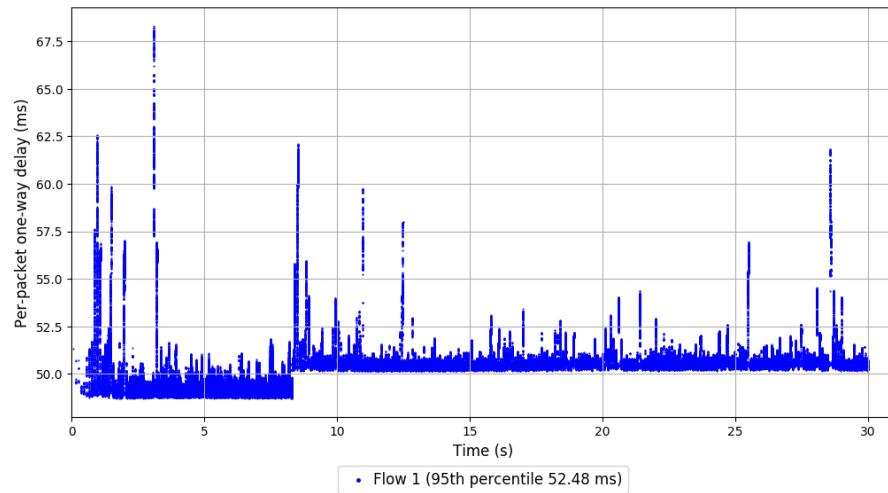
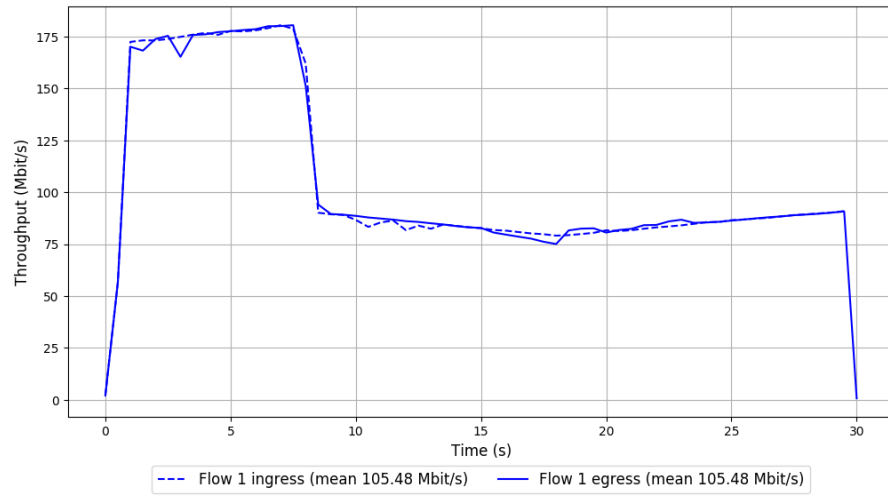
-- Flow 1:

Average throughput: 105.48 Mbit/s

95th percentile per-packet one-way delay: 52.478 ms

Loss rate: 0.00%

## Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-16 19:03:03

End at: 2018-01-16 19:03:33

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 51.844 ms

Loss rate: 0.59%

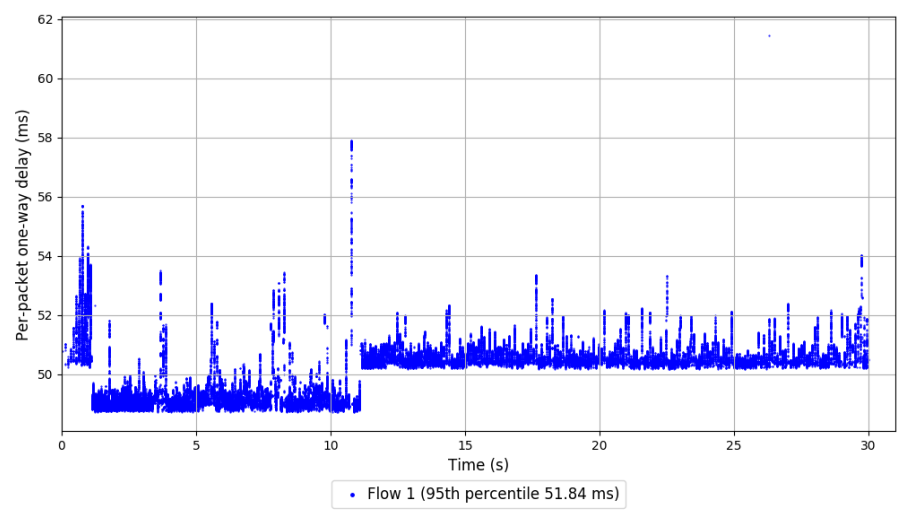
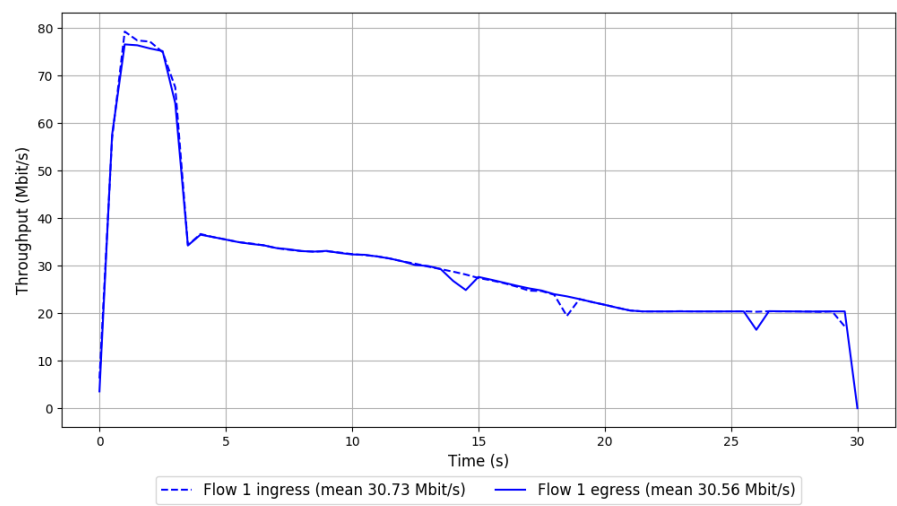
-- Flow 1:

Average throughput: 30.56 Mbit/s

95th percentile per-packet one-way delay: 51.844 ms

Loss rate: 0.59%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-16 19:17:20

End at: 2018-01-16 19:17:50

# Below is generated by plot.py at 2018-01-16 21:29:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 107.45 Mbit/s

95th percentile per-packet one-way delay: 54.686 ms

Loss rate: 0.39%

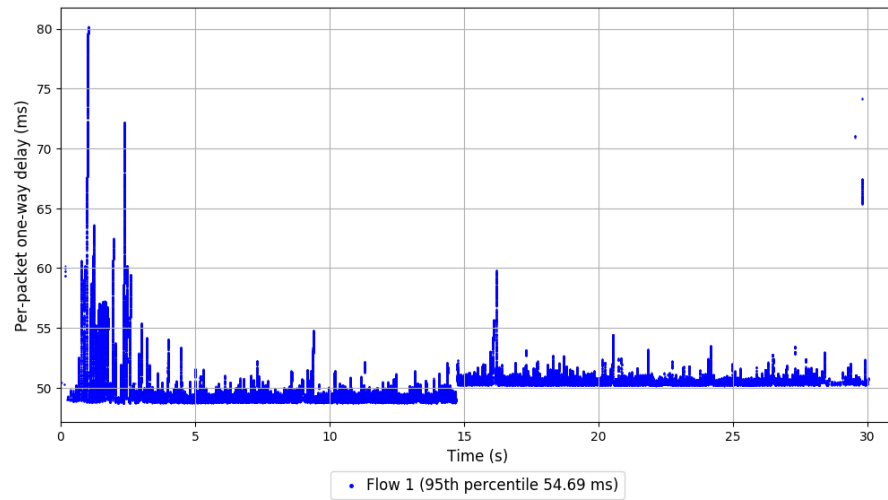
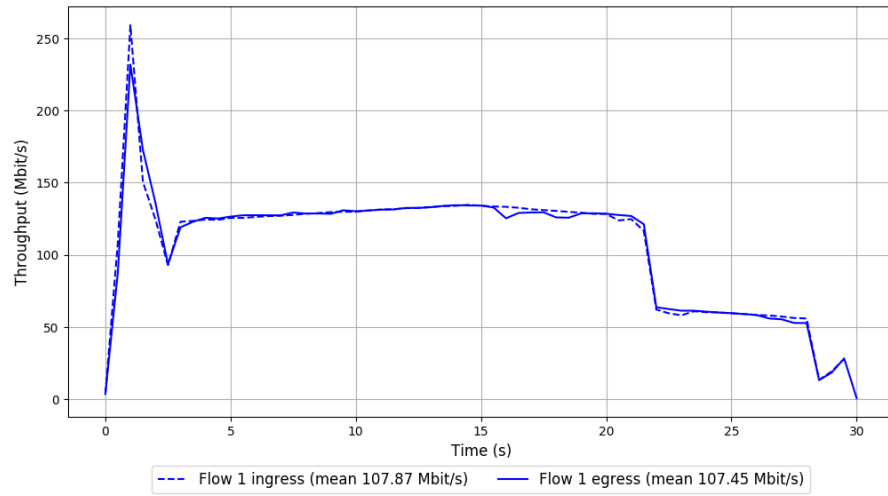
-- Flow 1:

Average throughput: 107.45 Mbit/s

95th percentile per-packet one-way delay: 54.686 ms

Loss rate: 0.39%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-16 17:01:20

End at: 2018-01-16 17:01:50

# Below is generated by plot.py at 2018-01-16 21:31:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 282.16 Mbit/s

95th percentile per-packet one-way delay: 76.456 ms

Loss rate: 0.59%

-- Flow 1:

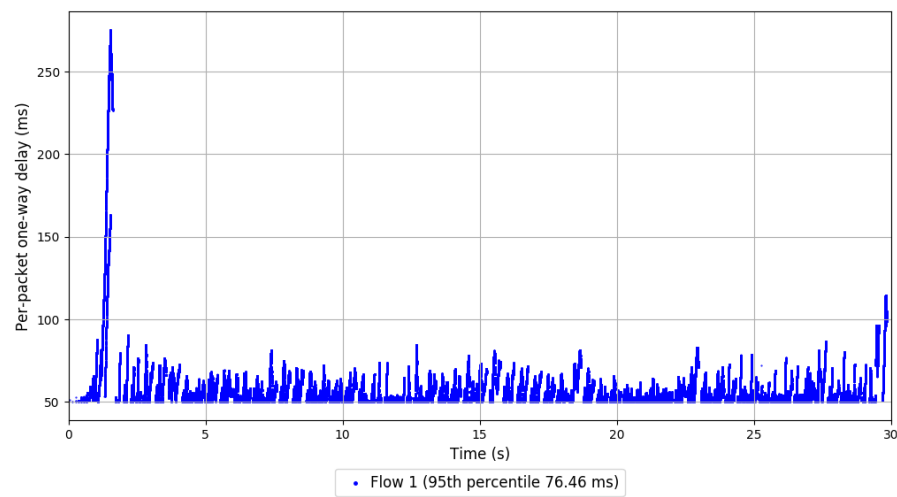
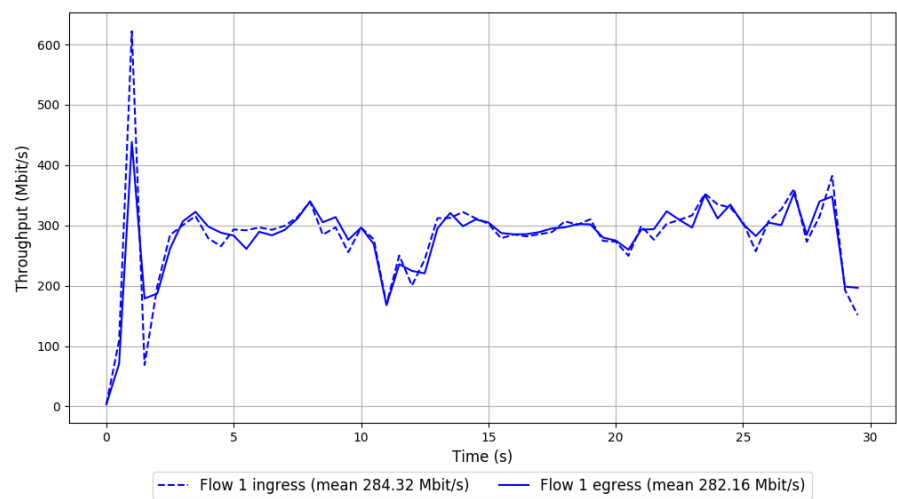
Average throughput: 282.16 Mbit/s

95th percentile per-packet one-way delay: 76.456 ms

Loss rate: 0.59%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-16 17:15:38

End at: 2018-01-16 17:16:08

# Below is generated by plot.py at 2018-01-16 21:31:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 322.14 Mbit/s

95th percentile per-packet one-way delay: 78.761 ms

Loss rate: 0.65%

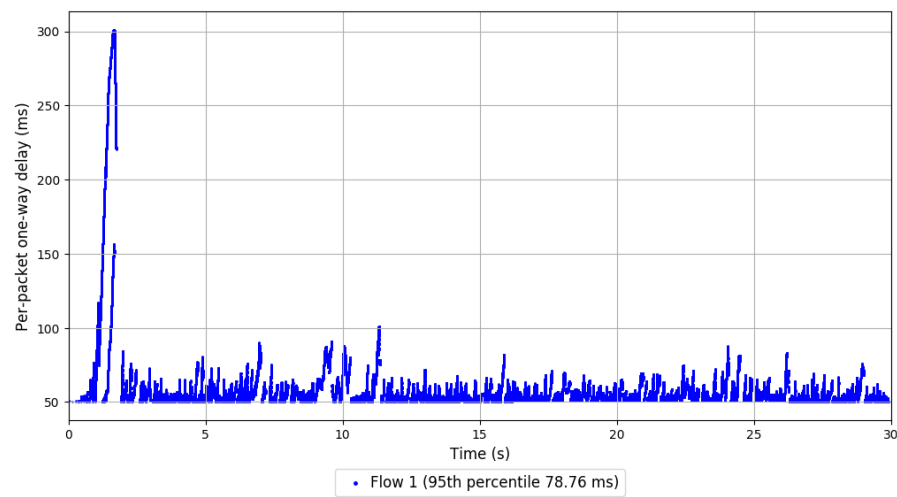
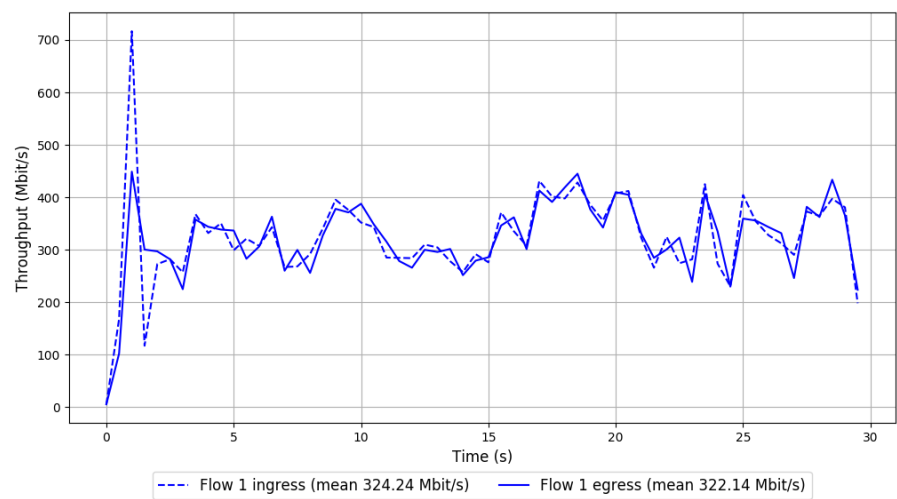
-- Flow 1:

Average throughput: 322.14 Mbit/s

95th percentile per-packet one-way delay: 78.761 ms

Loss rate: 0.65%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-16 17:29:56

End at: 2018-01-16 17:30:26

# Below is generated by plot.py at 2018-01-16 21:31:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 246.11 Mbit/s

95th percentile per-packet one-way delay: 117.328 ms

Loss rate: 0.06%

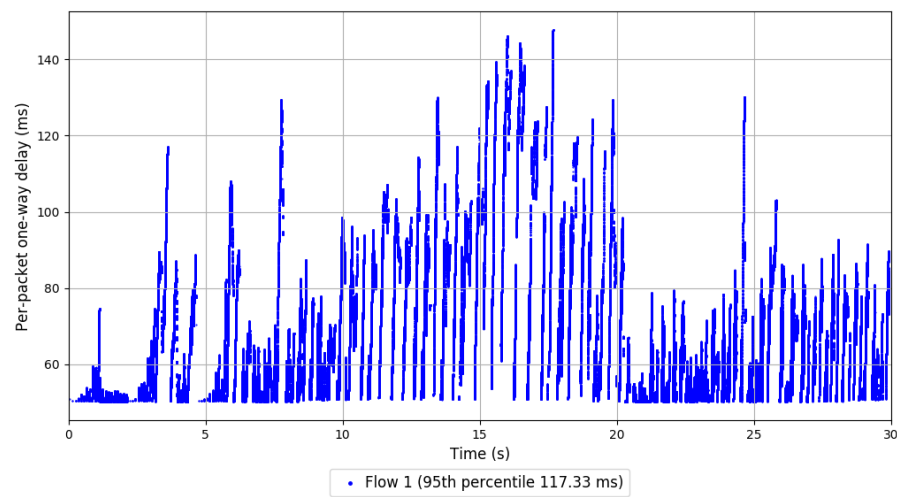
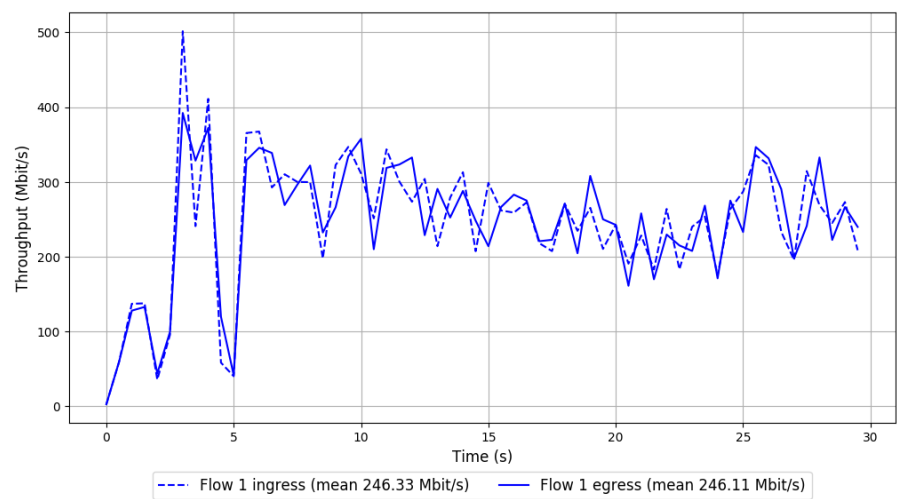
-- Flow 1:

Average throughput: 246.11 Mbit/s

95th percentile per-packet one-way delay: 117.328 ms

Loss rate: 0.06%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-16 17:44:05

End at: 2018-01-16 17:44:35

# Below is generated by plot.py at 2018-01-16 21:31:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 300.69 Mbit/s

95th percentile per-packet one-way delay: 156.032 ms

Loss rate: 0.44%

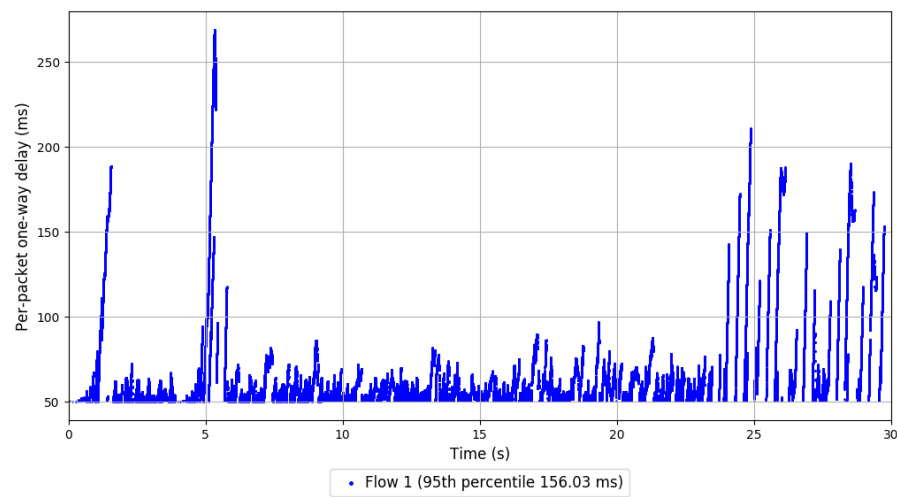
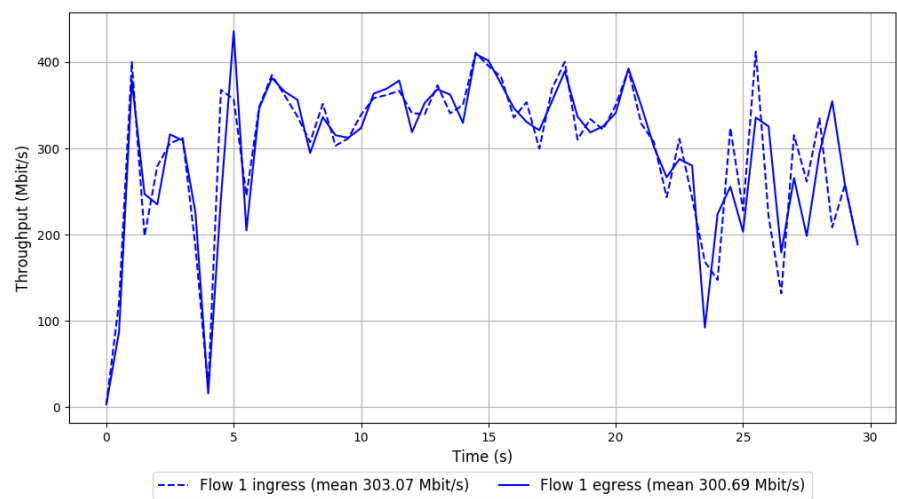
-- Flow 1:

Average throughput: 300.69 Mbit/s

95th percentile per-packet one-way delay: 156.032 ms

Loss rate: 0.44%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-16 17:58:07

End at: 2018-01-16 17:58:37

# Below is generated by plot.py at 2018-01-16 21:31:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 282.28 Mbit/s

95th percentile per-packet one-way delay: 73.398 ms

Loss rate: 0.00%

-- Flow 1:

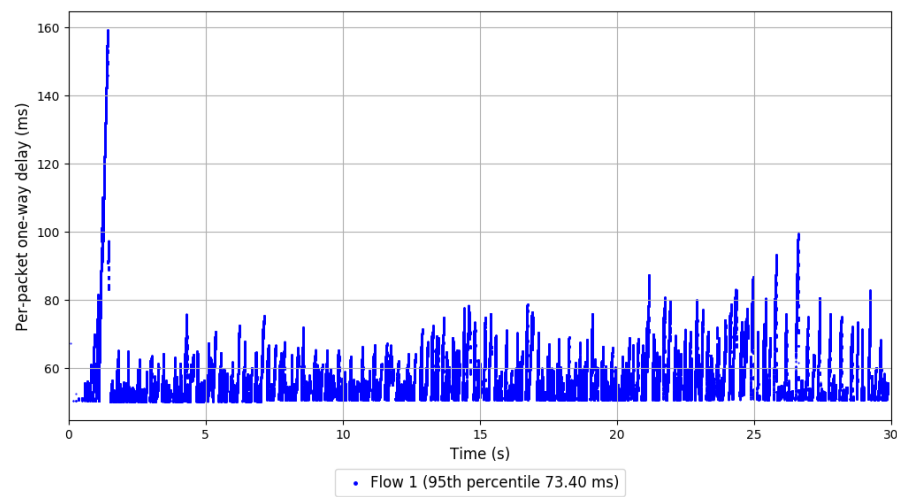
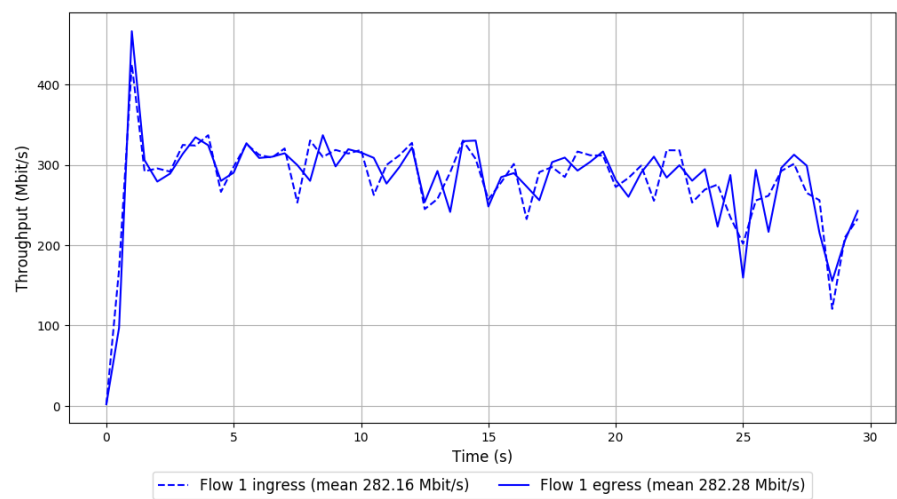
Average throughput: 282.28 Mbit/s

95th percentile per-packet one-way delay: 73.398 ms

Loss rate: 0.00%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-16 18:11:52

End at: 2018-01-16 18:12:22

# Below is generated by plot.py at 2018-01-16 21:32:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 253.53 Mbit/s

95th percentile per-packet one-way delay: 112.181 ms

Loss rate: 1.59%

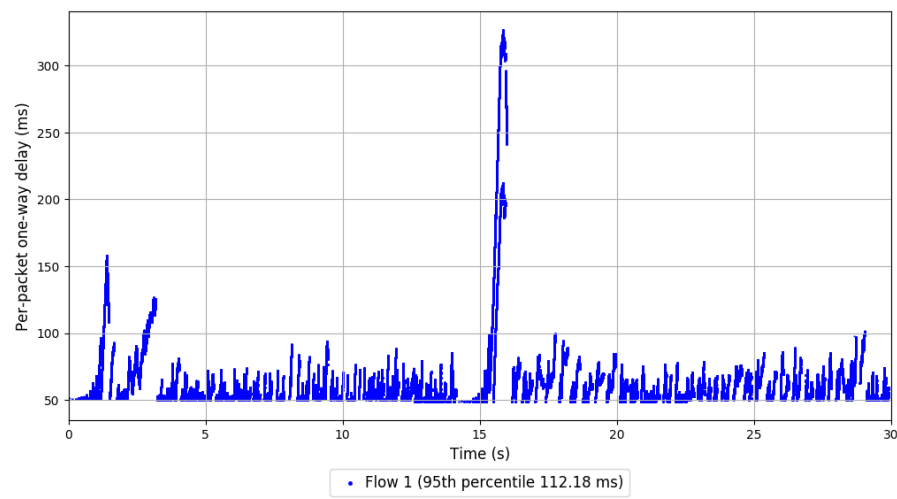
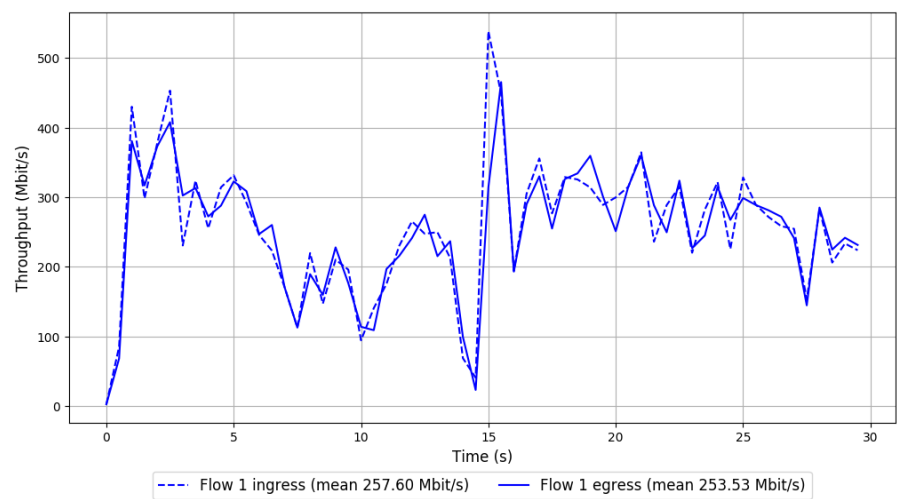
-- Flow 1:

Average throughput: 253.53 Mbit/s

95th percentile per-packet one-way delay: 112.181 ms

Loss rate: 1.59%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-16 18:25:58

End at: 2018-01-16 18:26:28

# Below is generated by plot.py at 2018-01-16 21:33:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 310.51 Mbit/s

95th percentile per-packet one-way delay: 99.477 ms

Loss rate: 1.28%

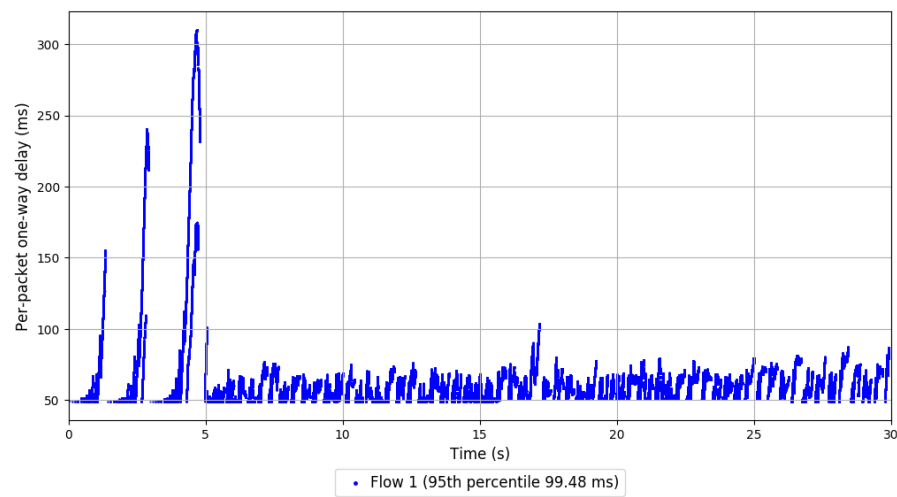
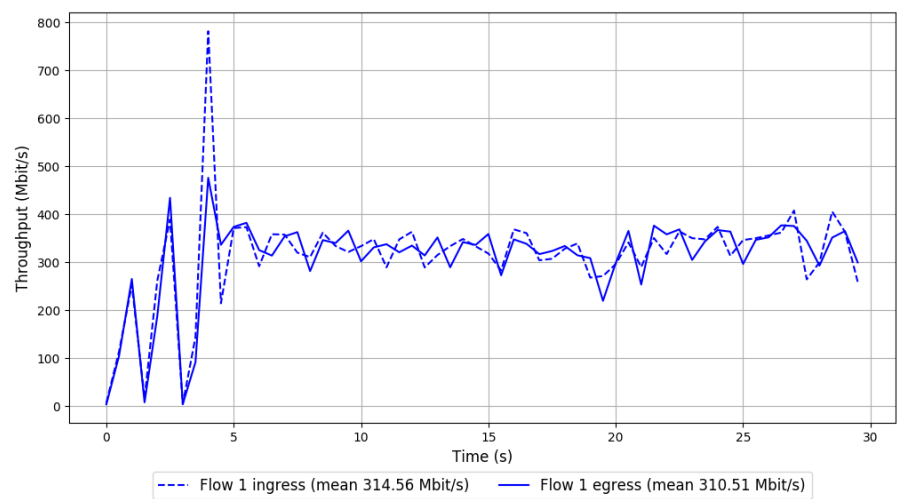
-- Flow 1:

Average throughput: 310.51 Mbit/s

95th percentile per-packet one-way delay: 99.477 ms

Loss rate: 1.28%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-16 18:39:51

End at: 2018-01-16 18:40:21

# Below is generated by plot.py at 2018-01-16 21:34:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 285.54 Mbit/s

95th percentile per-packet one-way delay: 89.556 ms

Loss rate: 1.08%

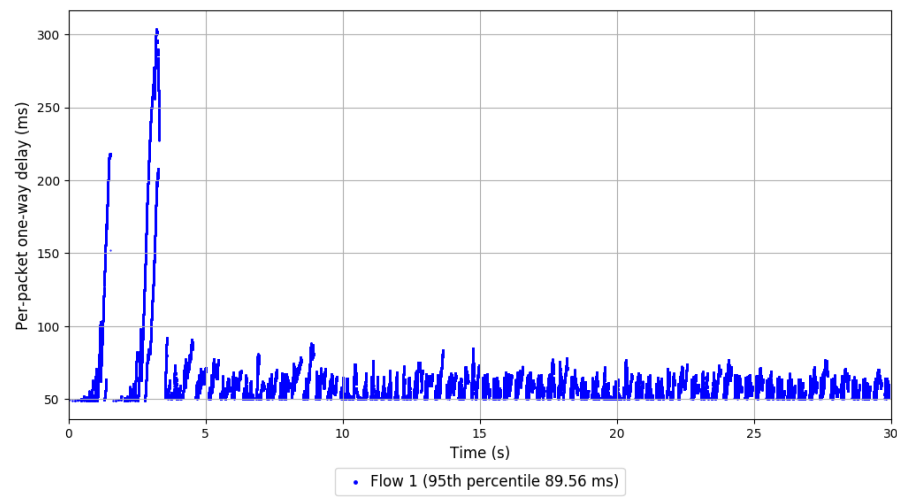
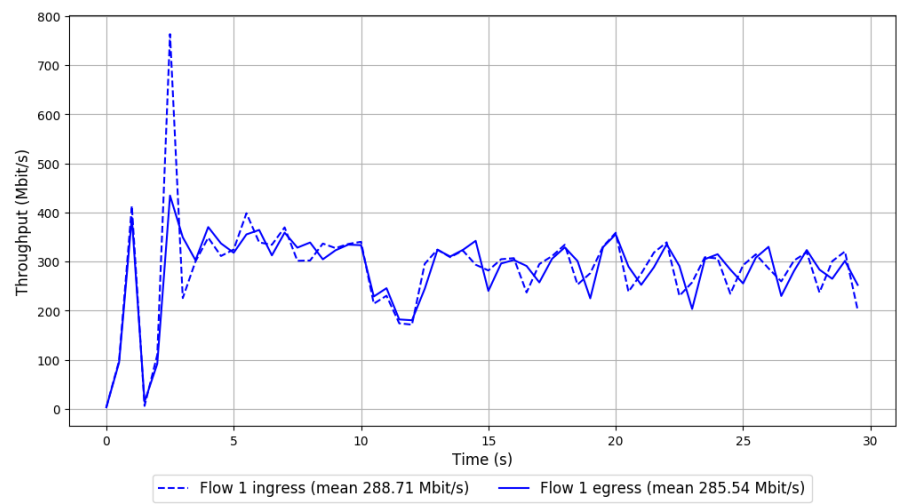
-- Flow 1:

Average throughput: 285.54 Mbit/s

95th percentile per-packet one-way delay: 89.556 ms

Loss rate: 1.08%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-16 18:53:59

End at: 2018-01-16 18:54:29

# Below is generated by plot.py at 2018-01-16 21:36:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 313.31 Mbit/s

95th percentile per-packet one-way delay: 87.955 ms

Loss rate: 1.21%

-- Flow 1:

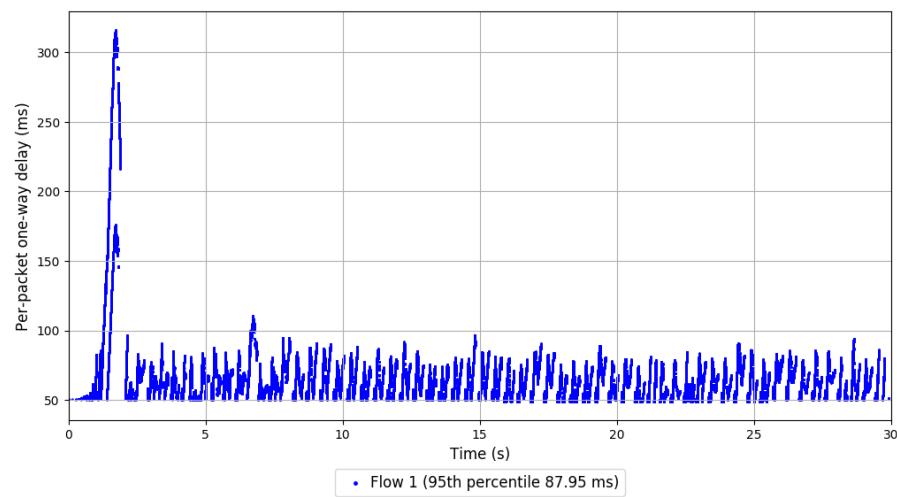
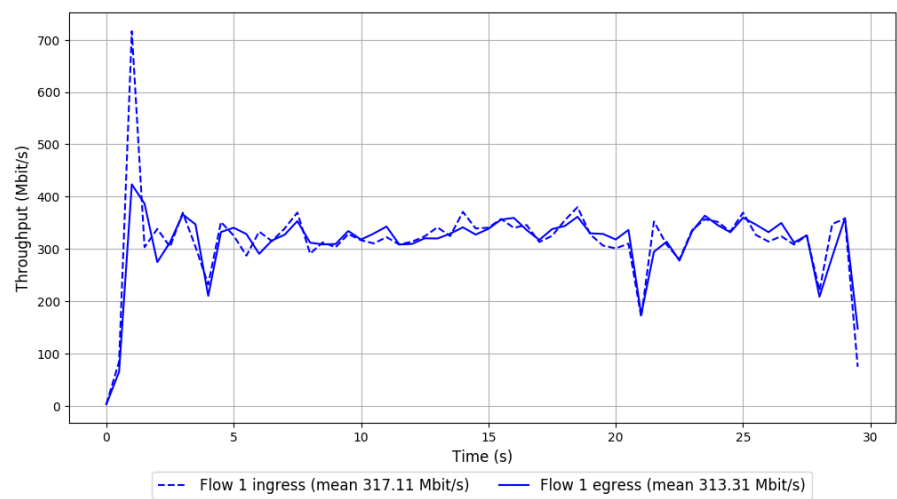
Average throughput: 313.31 Mbit/s

95th percentile per-packet one-way delay: 87.955 ms

Loss rate: 1.21%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-16 19:08:10

End at: 2018-01-16 19:08:40

# Below is generated by plot.py at 2018-01-16 21:36:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 268.92 Mbit/s

95th percentile per-packet one-way delay: 89.786 ms

Loss rate: 0.61%

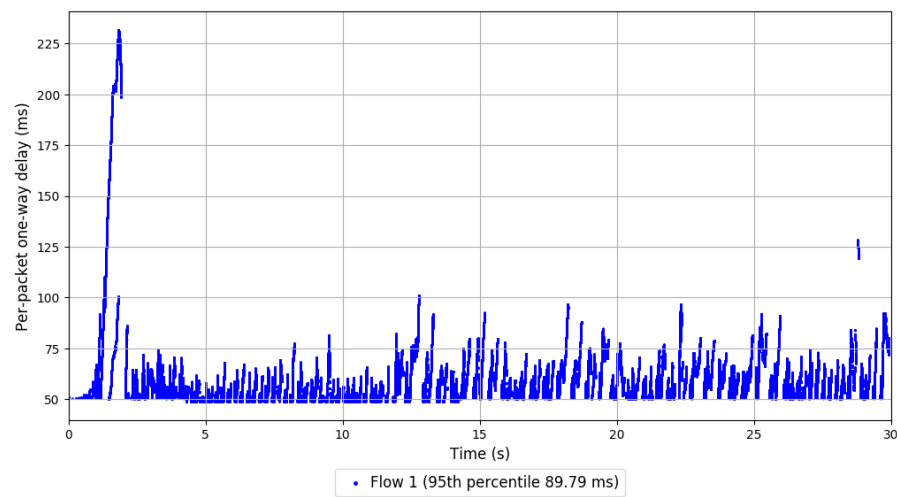
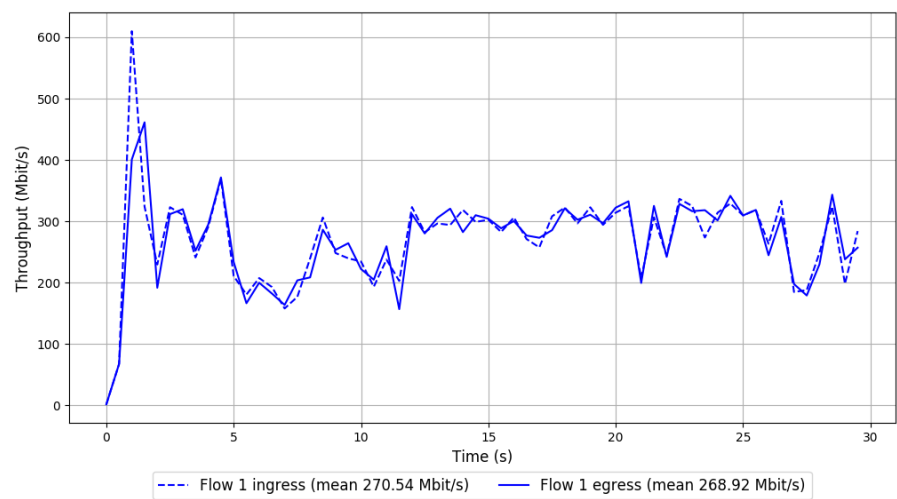
-- Flow 1:

Average throughput: 268.92 Mbit/s

95th percentile per-packet one-way delay: 89.786 ms

Loss rate: 0.61%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-16 17:02:15

End at: 2018-01-16 17:02:45

# Below is generated by plot.py at 2018-01-16 21:36:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 0.00%

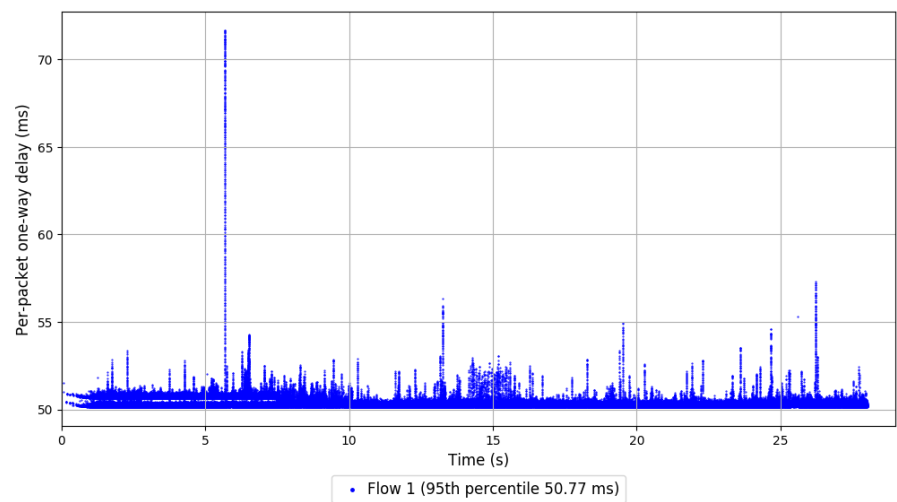
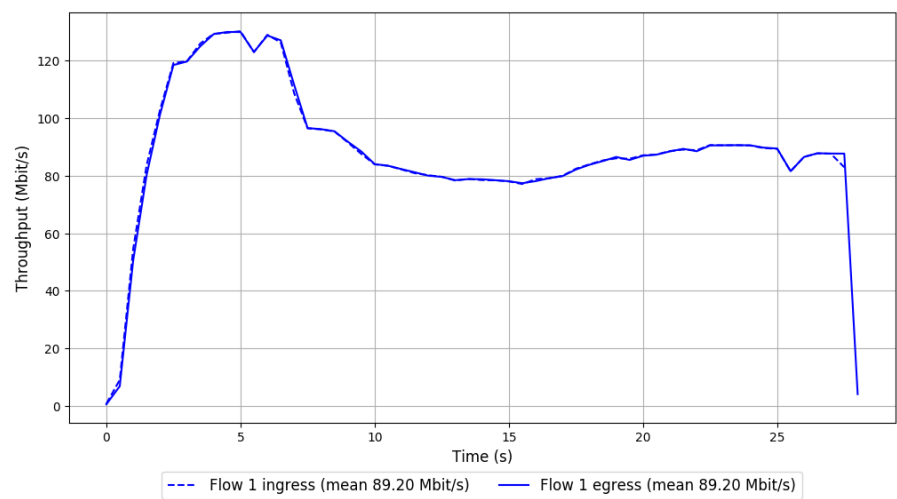
-- Flow 1:

Average throughput: 89.20 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-16 17:16:37

End at: 2018-01-16 17:17:07

# Below is generated by plot.py at 2018-01-16 21:36:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 0.00%

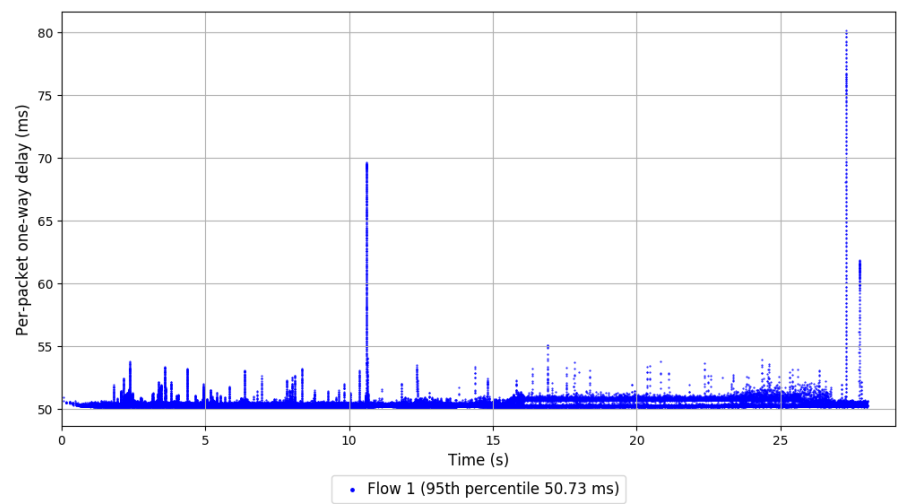
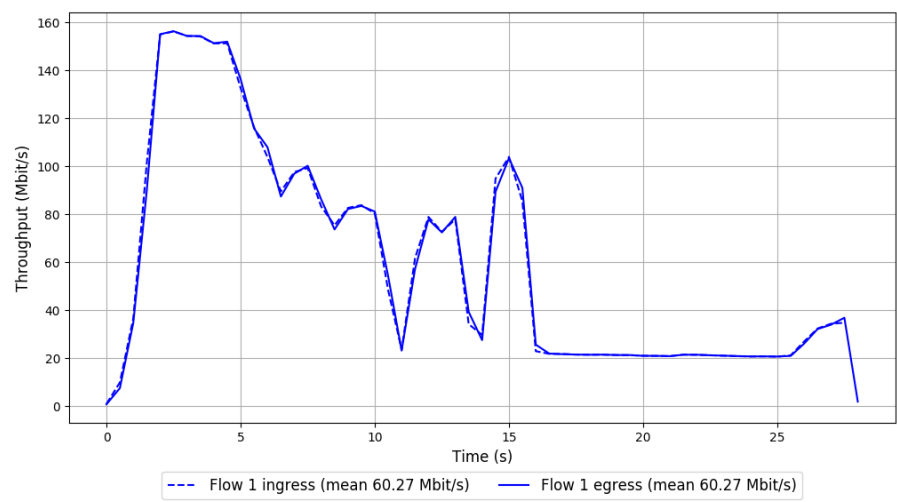
-- Flow 1:

Average throughput: 60.27 Mbit/s

95th percentile per-packet one-way delay: 50.727 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-16 17:30:49

End at: 2018-01-16 17:31:19

# Below is generated by plot.py at 2018-01-16 21:36:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 50.832 ms

Loss rate: 0.00%

-- Flow 1:

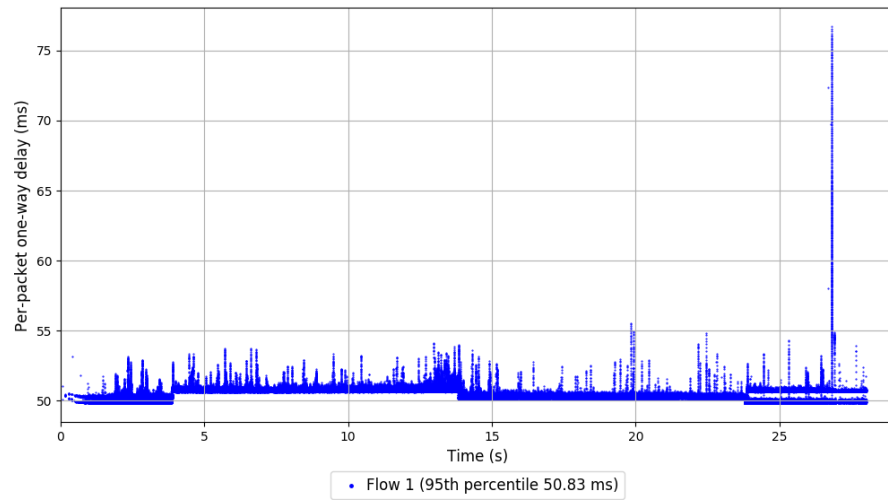
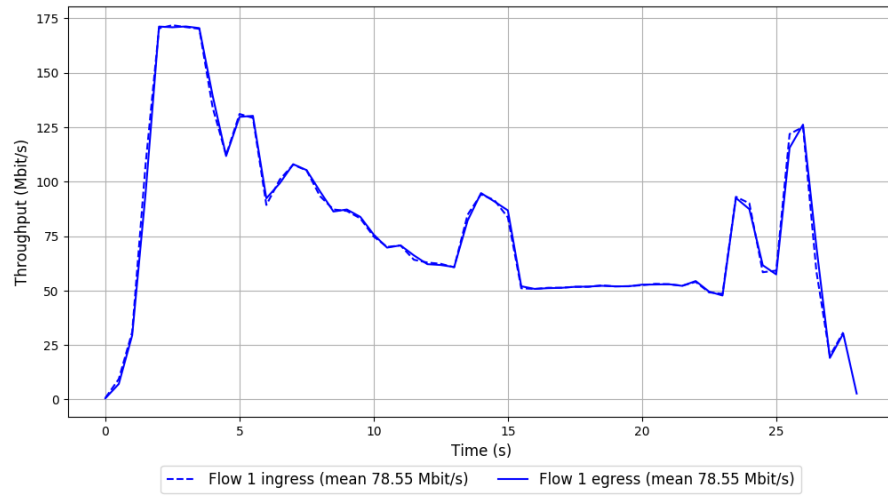
Average throughput: 78.55 Mbit/s

95th percentile per-packet one-way delay: 50.832 ms

Loss rate: 0.00%



### Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-16 17:45:01

End at: 2018-01-16 17:45:31

# Below is generated by plot.py at 2018-01-16 21:36:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 50.410 ms

Loss rate: 0.00%

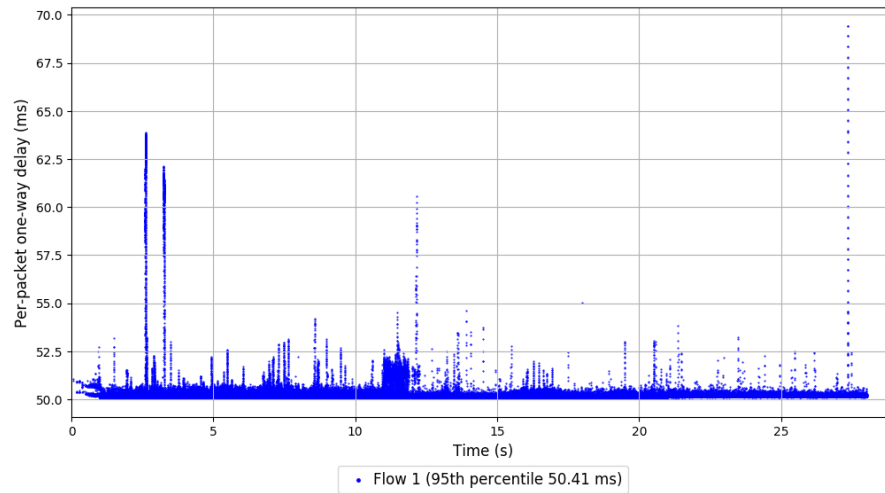
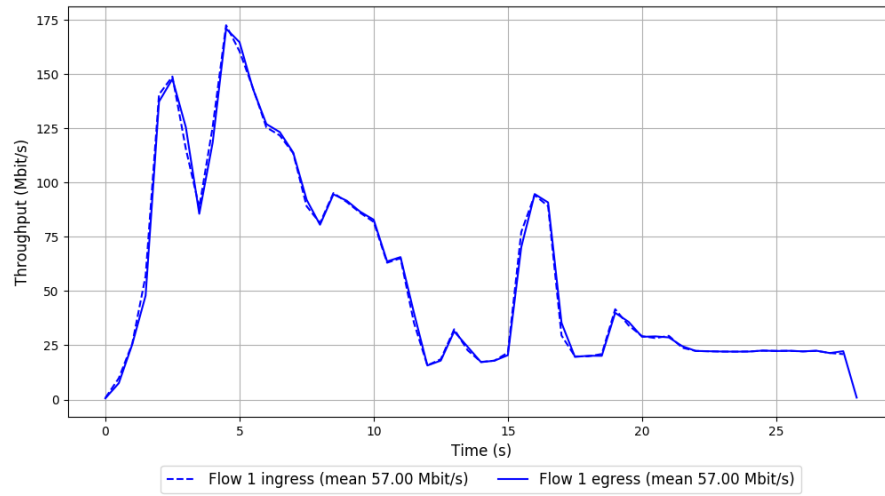
-- Flow 1:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 50.410 ms

Loss rate: 0.00%

#### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-16 17:59:03

End at: 2018-01-16 17:59:33

# Below is generated by plot.py at 2018-01-16 21:36:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.26 Mbit/s

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

Loss rate: 0.00%

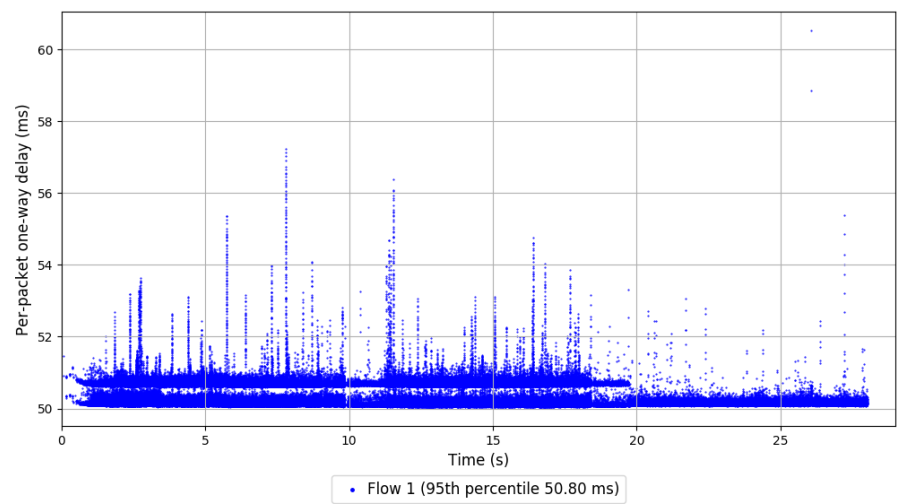
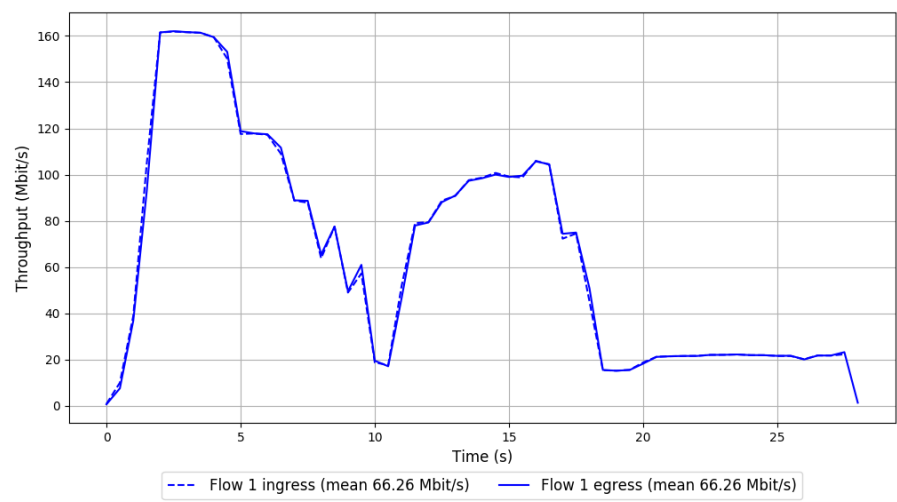
-- Flow 1:

Average throughput: 66.26 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-16 18:12:45

End at: 2018-01-16 18:13:15

# Below is generated by plot.py at 2018-01-16 21:36:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.68 Mbit/s

95th percentile per-packet one-way delay: 50.354 ms

Loss rate: 0.00%

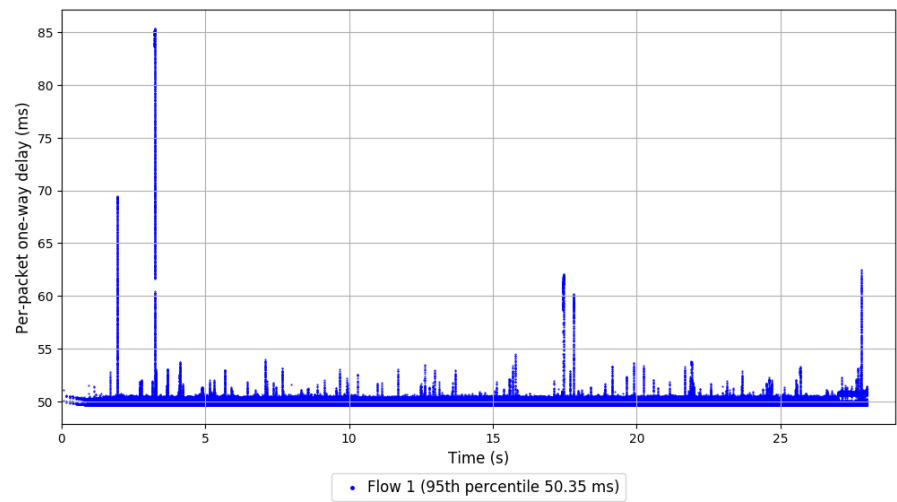
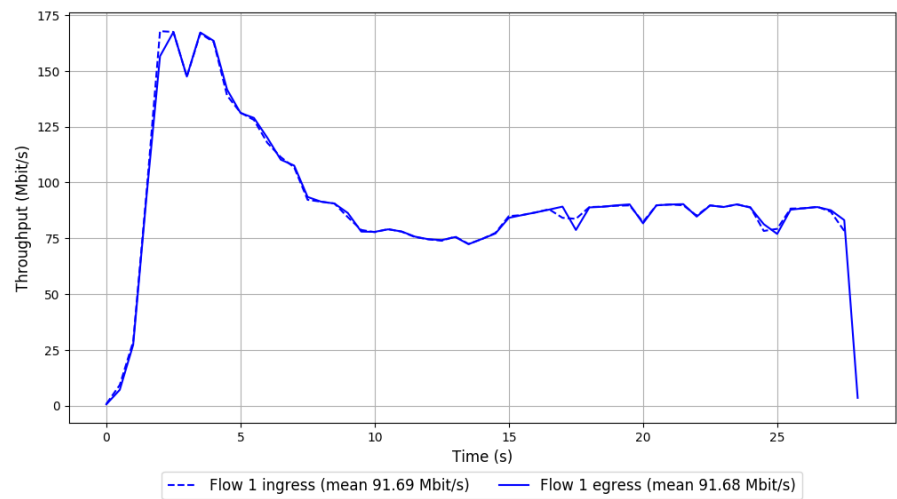
-- Flow 1:

Average throughput: 91.68 Mbit/s

95th percentile per-packet one-way delay: 50.354 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-16 18:26:55

End at: 2018-01-16 18:27:25

# Below is generated by plot.py at 2018-01-16 21:36:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.64 Mbit/s

95th percentile per-packet one-way delay: 50.310 ms

Loss rate: 0.00%

-- Flow 1:

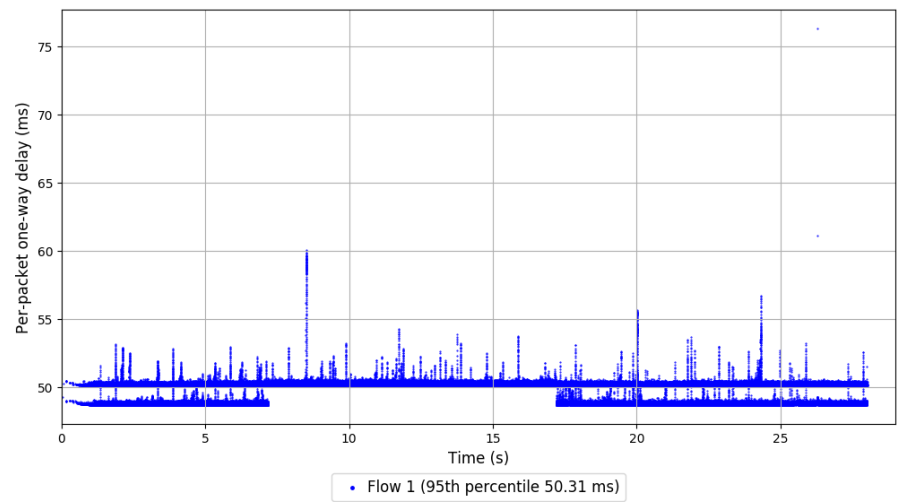
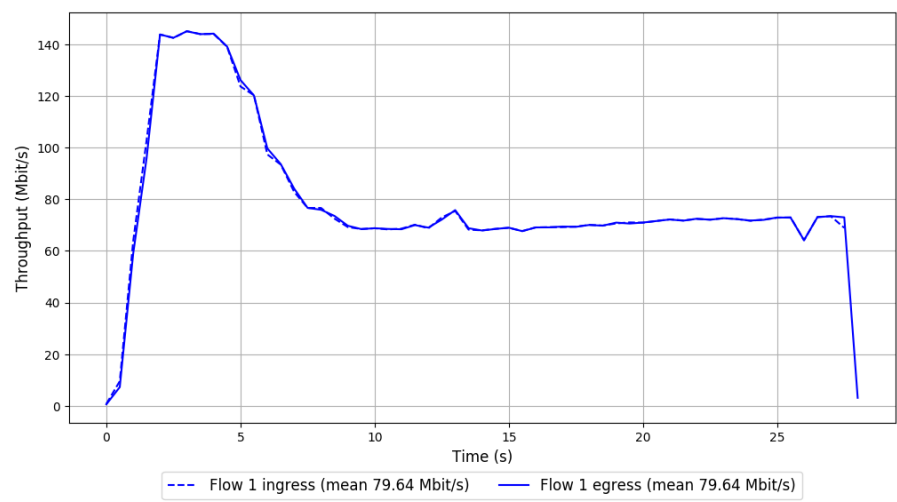
Average throughput: 79.64 Mbit/s

95th percentile per-packet one-way delay: 50.310 ms

Loss rate: 0.00%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-16 18:40:47

End at: 2018-01-16 18:41:17

# Below is generated by plot.py at 2018-01-16 21:36:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.87 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.00%

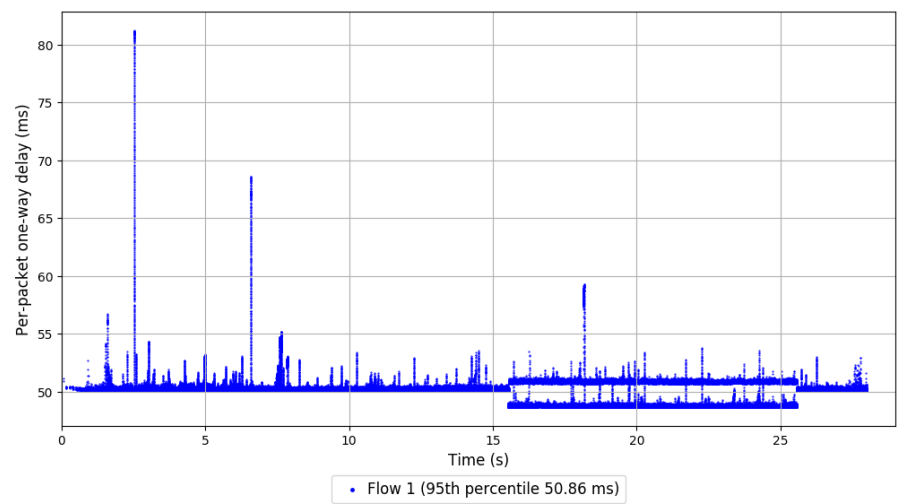
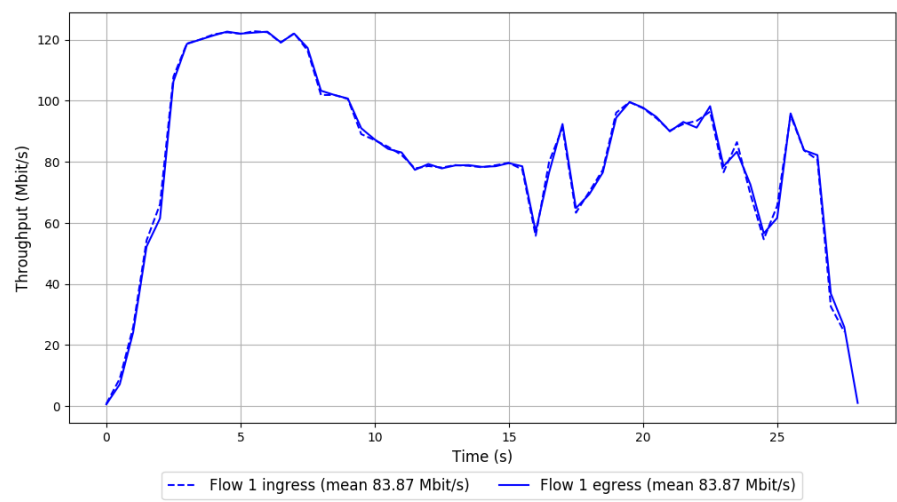
-- Flow 1:

Average throughput: 83.87 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-16 18:54:56

End at: 2018-01-16 18:55:26

# Below is generated by plot.py at 2018-01-16 21:36:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.05 Mbit/s

95th percentile per-packet one-way delay: 50.371 ms

Loss rate: 0.00%

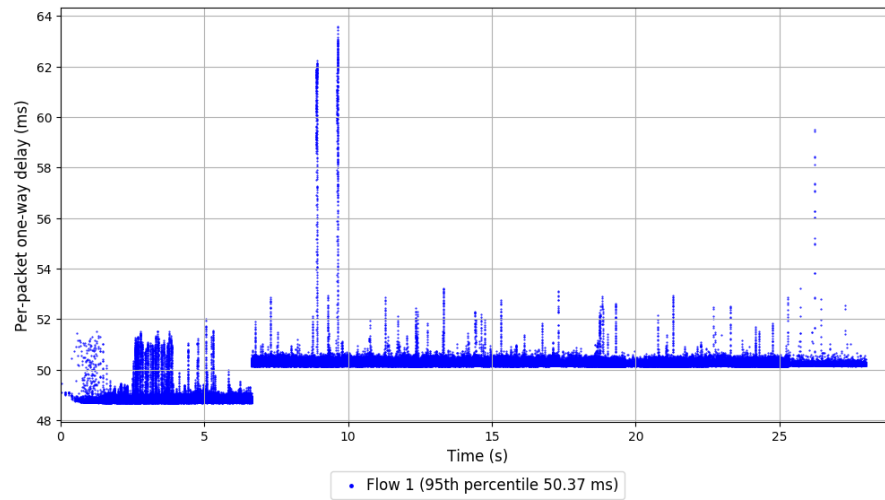
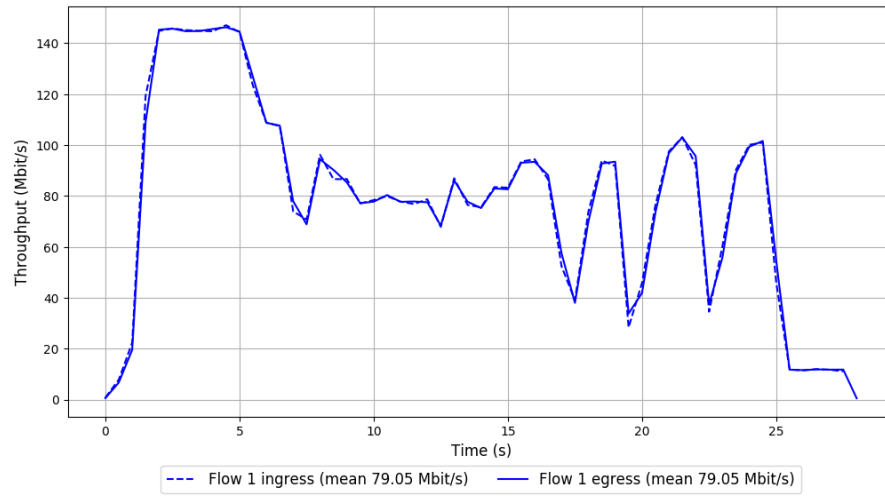
-- Flow 1:

Average throughput: 79.05 Mbit/s

95th percentile per-packet one-way delay: 50.371 ms

Loss rate: 0.00%

### Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-16 19:09:04

End at: 2018-01-16 19:09:34

# Below is generated by plot.py at 2018-01-16 21:37:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.61 Mbit/s

95th percentile per-packet one-way delay: 50.394 ms

Loss rate: 0.00%

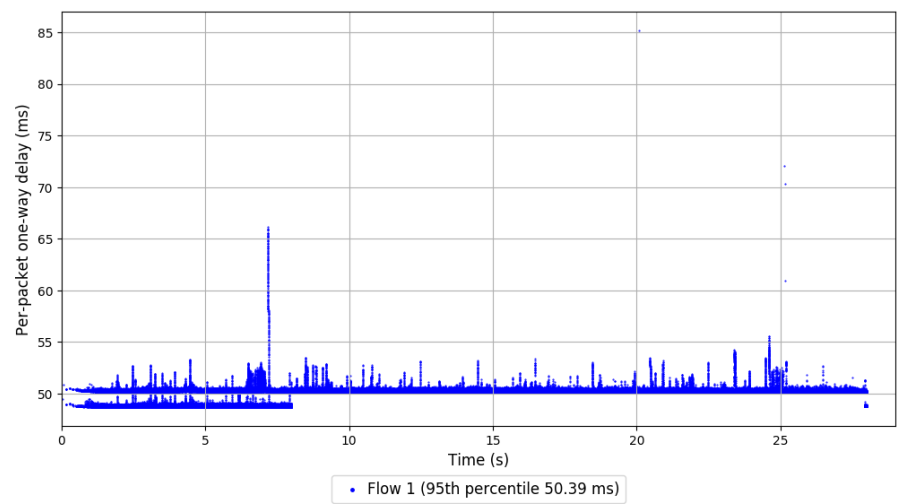
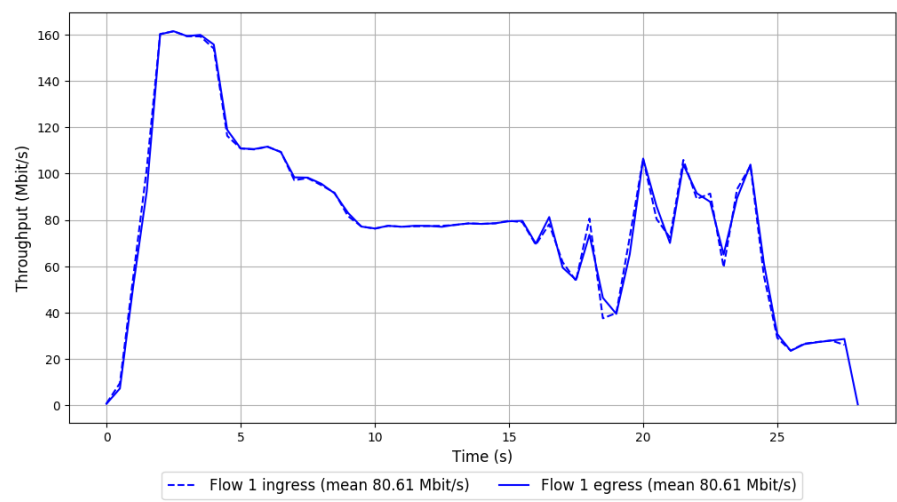
-- Flow 1:

Average throughput: 80.61 Mbit/s

95th percentile per-packet one-way delay: 50.394 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-01-16 17:06:32

End at: 2018-01-16 17:07:02

# Below is generated by plot.py at 2018-01-16 21:52:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 938.91 Mbit/s

95th percentile per-packet one-way delay: 268.396 ms

Loss rate: 3.30%

-- Flow 1:

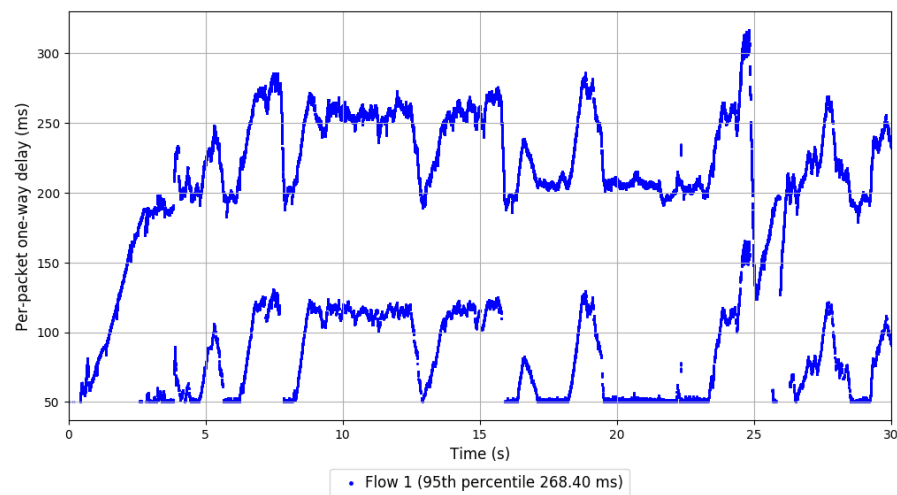
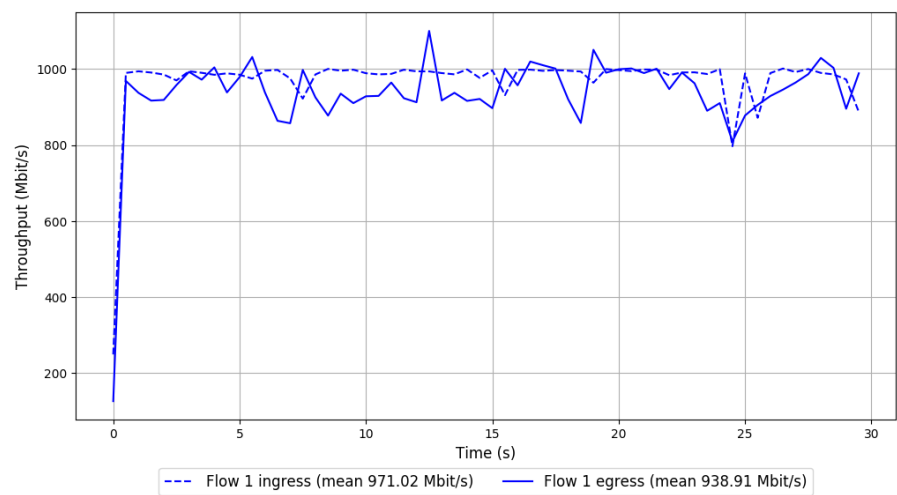
Average throughput: 938.91 Mbit/s

95th percentile per-packet one-way delay: 268.396 ms

Loss rate: 3.30%



Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-16 17:20:56

End at: 2018-01-16 17:21:26

# Below is generated by plot.py at 2018-01-16 21:53:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 952.57 Mbit/s

95th percentile per-packet one-way delay: 269.803 ms

Loss rate: 2.45%

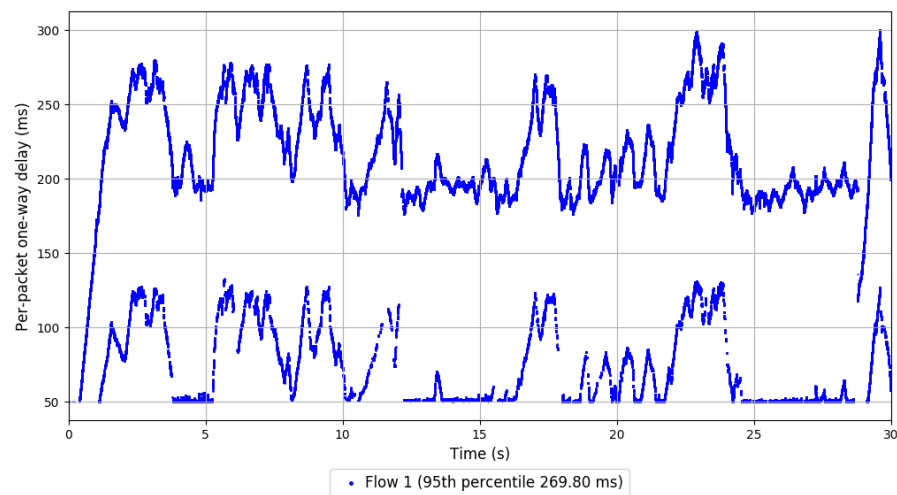
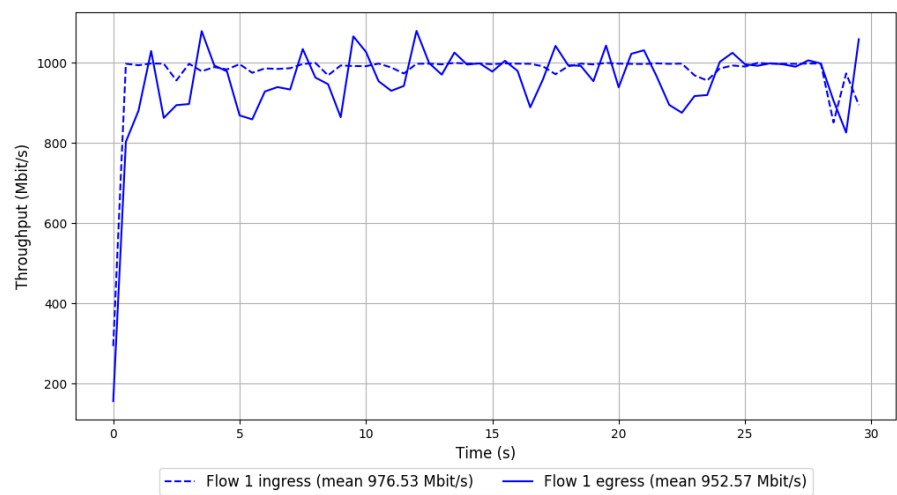
-- Flow 1:

Average throughput: 952.57 Mbit/s

95th percentile per-packet one-way delay: 269.803 ms

Loss rate: 2.45%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-16 17:35:12

End at: 2018-01-16 17:35:42

# Below is generated by plot.py at 2018-01-16 21:53:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 938.55 Mbit/s

95th percentile per-packet one-way delay: 271.315 ms

Loss rate: 3.58%

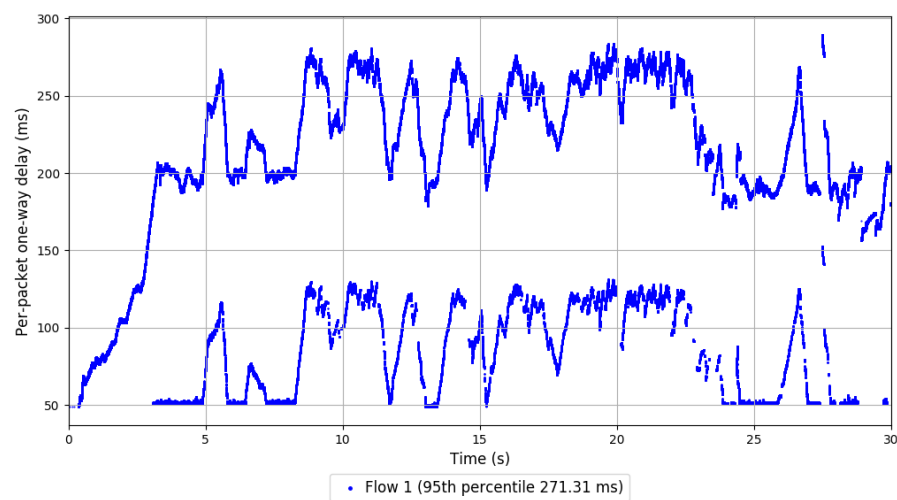
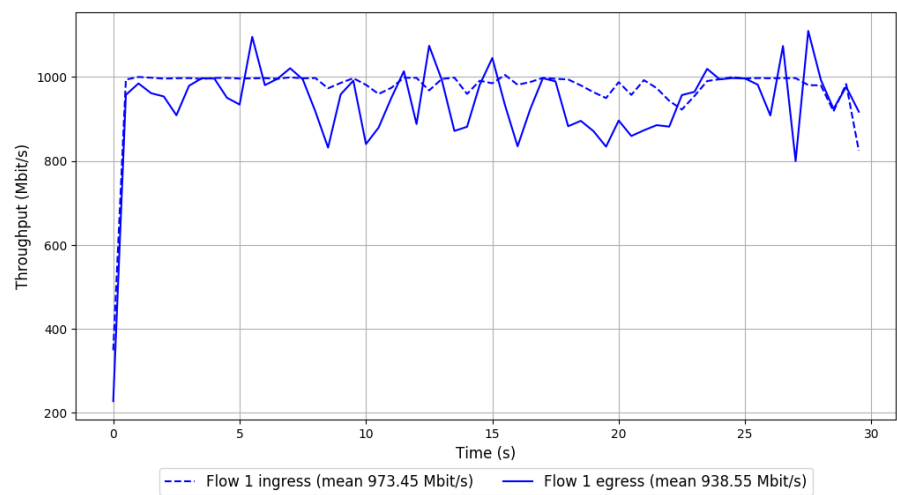
-- Flow 1:

Average throughput: 938.55 Mbit/s

95th percentile per-packet one-way delay: 271.315 ms

Loss rate: 3.58%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-16 17:49:09

End at: 2018-01-16 17:49:39

# Below is generated by plot.py at 2018-01-16 21:53:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 963.57 Mbit/s

95th percentile per-packet one-way delay: 258.475 ms

Loss rate: 1.21%

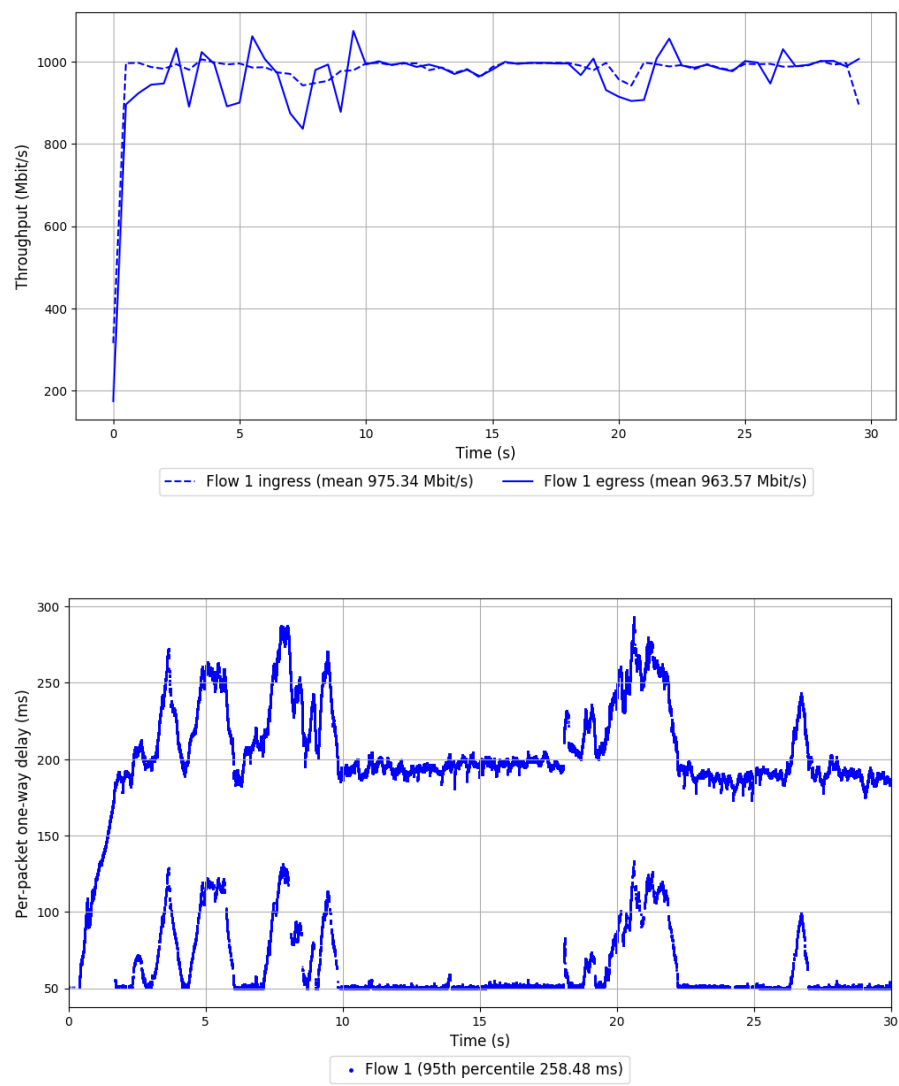
-- Flow 1:

Average throughput: 963.57 Mbit/s

95th percentile per-packet one-way delay: 258.475 ms

Loss rate: 1.21%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-16 18:03:10

End at: 2018-01-16 18:03:40

# Below is generated by plot.py at 2018-01-16 21:53:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 924.60 Mbit/s

95th percentile per-packet one-way delay: 284.168 ms

Loss rate: 4.28%

-- Flow 1:

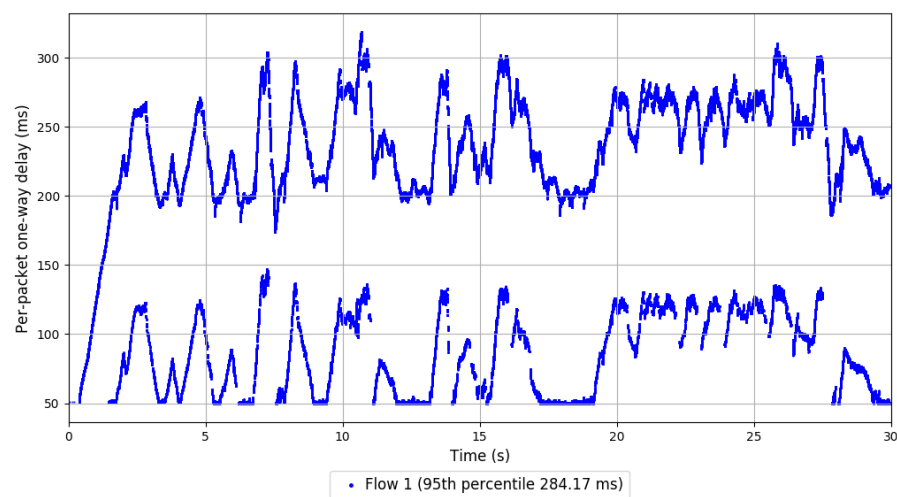
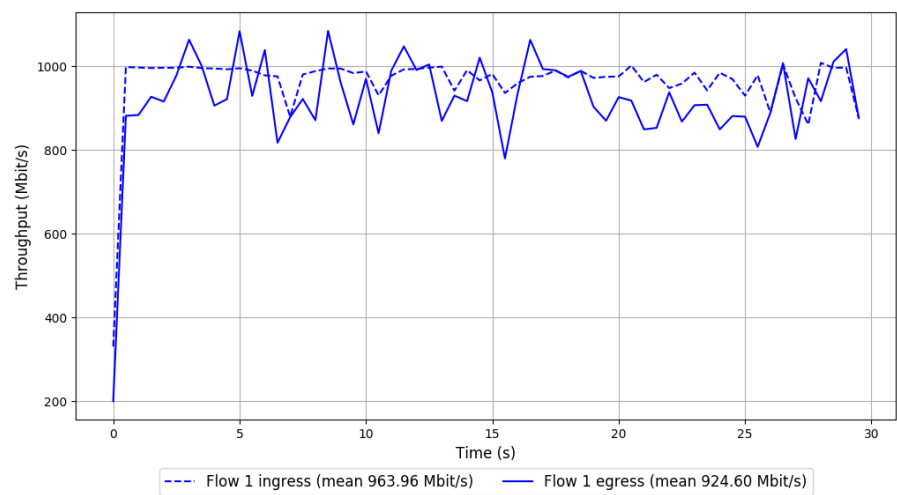
Average throughput: 924.60 Mbit/s

95th percentile per-packet one-way delay: 284.168 ms

Loss rate: 4.28%



Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-16 18:17:08

End at: 2018-01-16 18:17:38

# Below is generated by plot.py at 2018-01-16 21:53:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 917.30 Mbit/s

95th percentile per-packet one-way delay: 275.392 ms

Loss rate: 4.15%

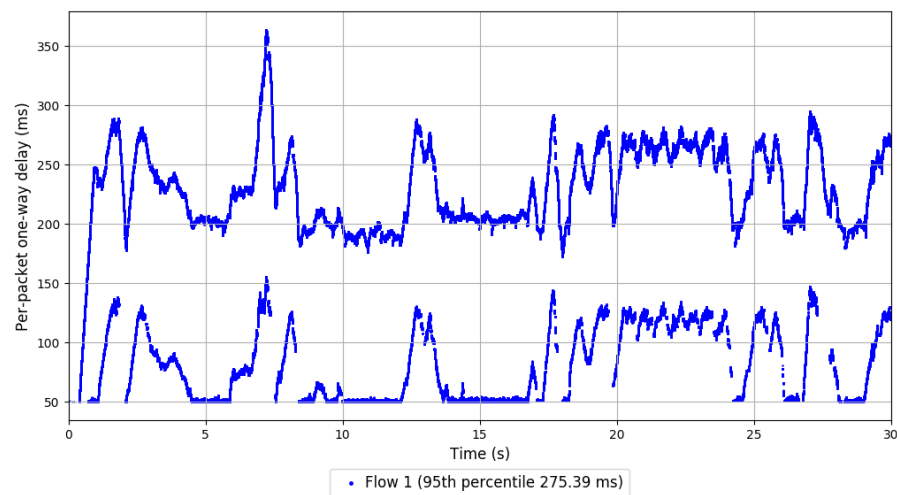
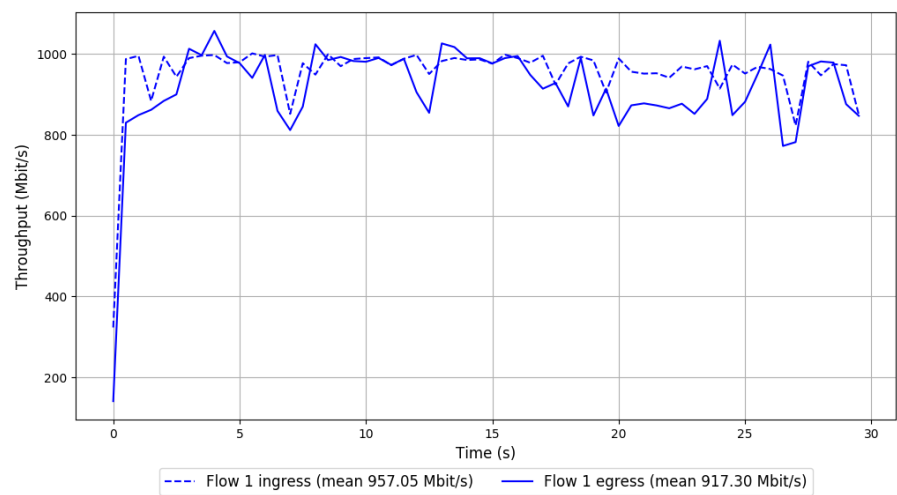
-- Flow 1:

Average throughput: 917.30 Mbit/s

95th percentile per-packet one-way delay: 275.392 ms

Loss rate: 4.15%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-16 18:31:05

End at: 2018-01-16 18:31:35

# Below is generated by plot.py at 2018-01-16 21:53:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 921.67 Mbit/s

95th percentile per-packet one-way delay: 282.744 ms

Loss rate: 2.98%

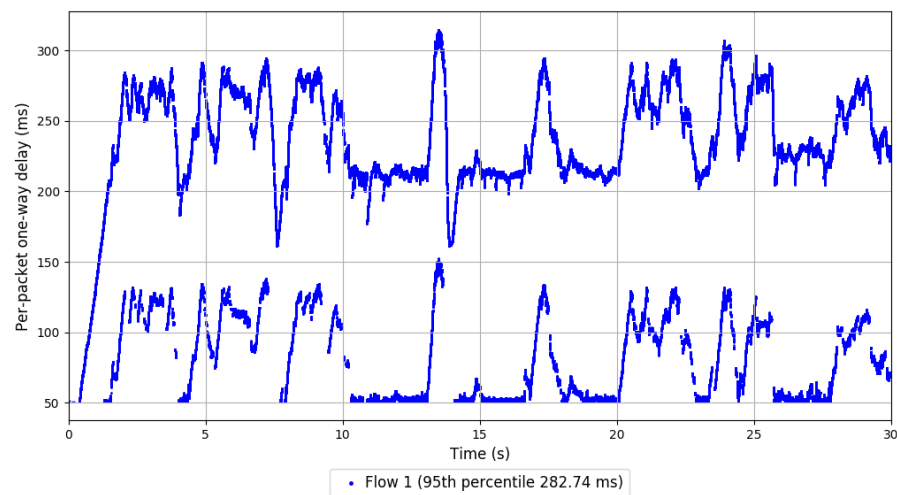
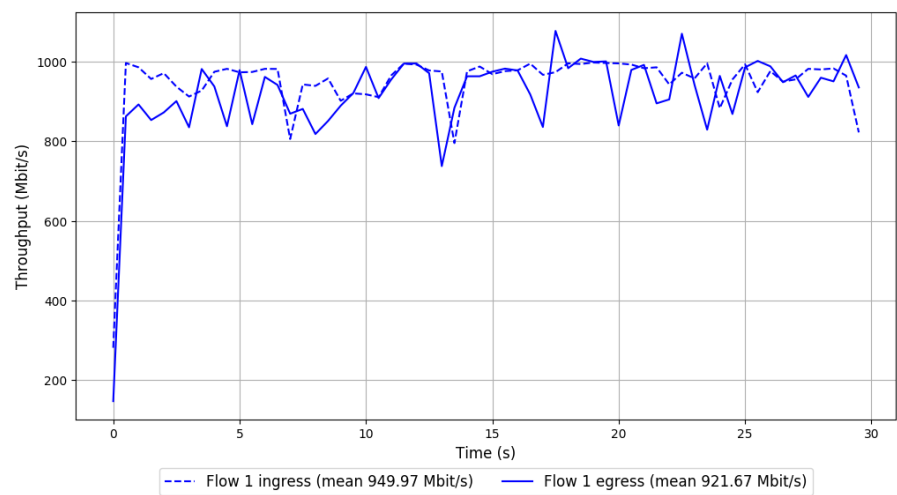
-- Flow 1:

Average throughput: 921.67 Mbit/s

95th percentile per-packet one-way delay: 282.744 ms

Loss rate: 2.98%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-16 18:44:53

End at: 2018-01-16 18:45:23

# Below is generated by plot.py at 2018-01-16 21:54:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 956.80 Mbit/s

95th percentile per-packet one-way delay: 266.217 ms

Loss rate: 1.63%

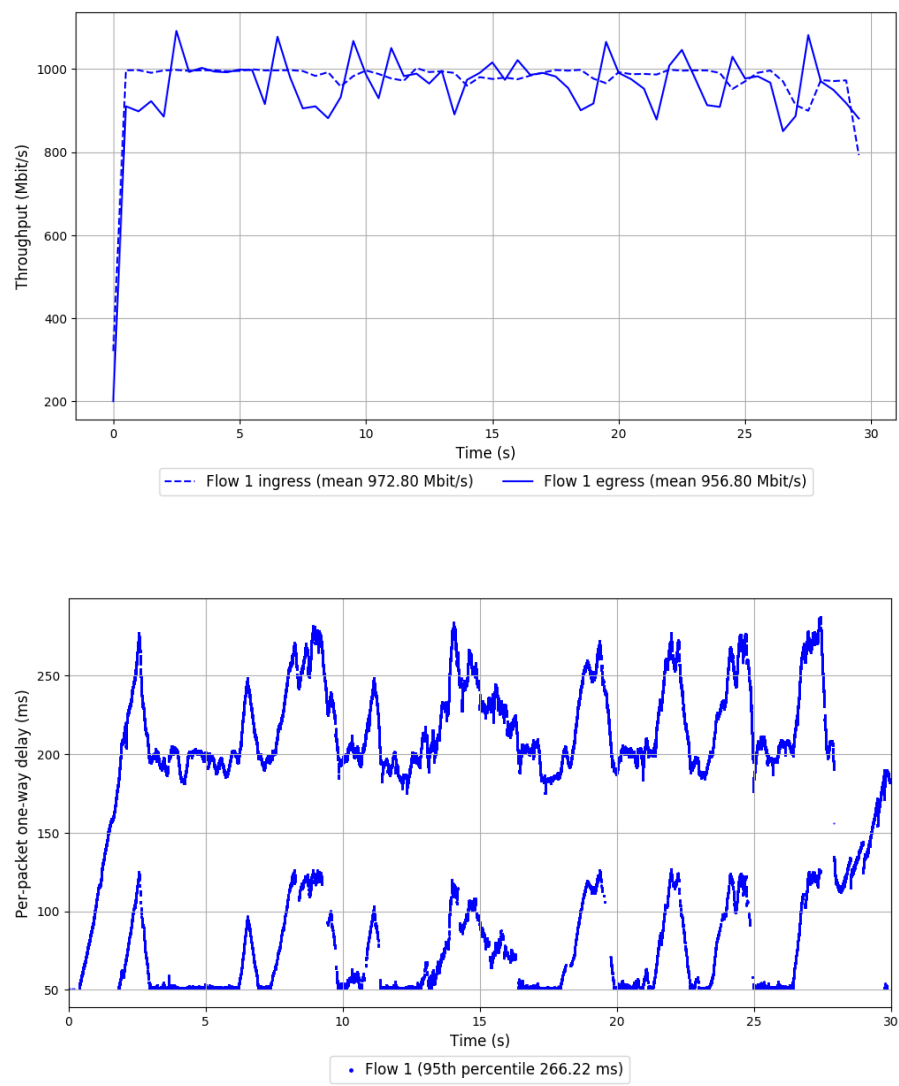
-- Flow 1:

Average throughput: 956.80 Mbit/s

95th percentile per-packet one-way delay: 266.217 ms

Loss rate: 1.63%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-16 18:59:12

End at: 2018-01-16 18:59:42

# Below is generated by plot.py at 2018-01-16 22:10:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 926.78 Mbit/s

95th percentile per-packet one-way delay: 265.303 ms

Loss rate: 4.26%

-- Flow 1:

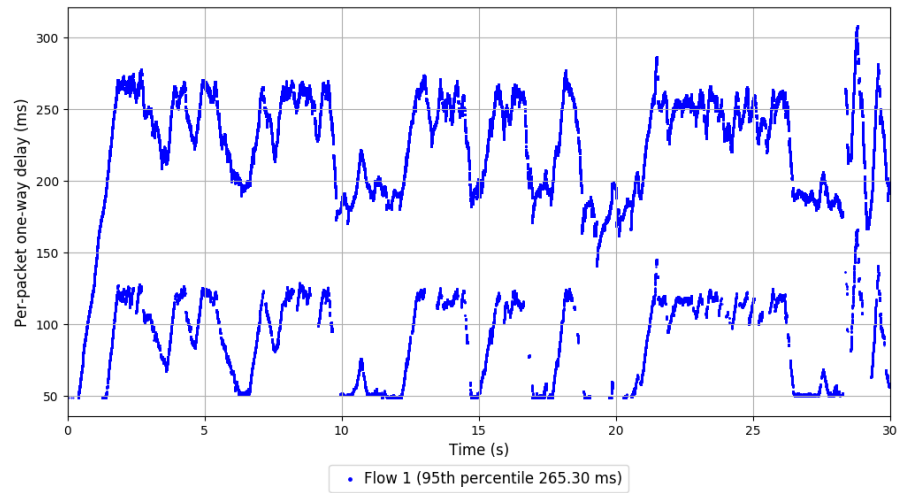
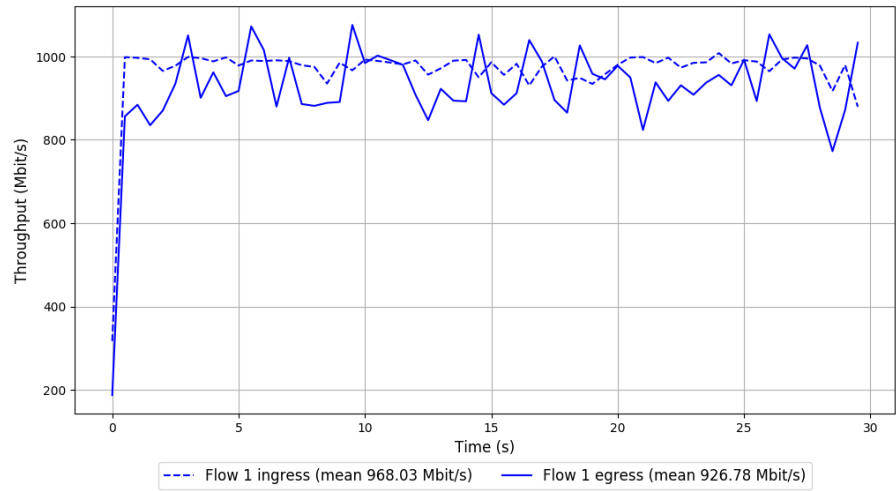
Average throughput: 926.78 Mbit/s

95th percentile per-packet one-way delay: 265.303 ms

Loss rate: 4.26%



### Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-16 19:13:25

End at: 2018-01-16 19:13:55

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 952.35 Mbit/s

95th percentile per-packet one-way delay: 261.322 ms

Loss rate: 1.95%

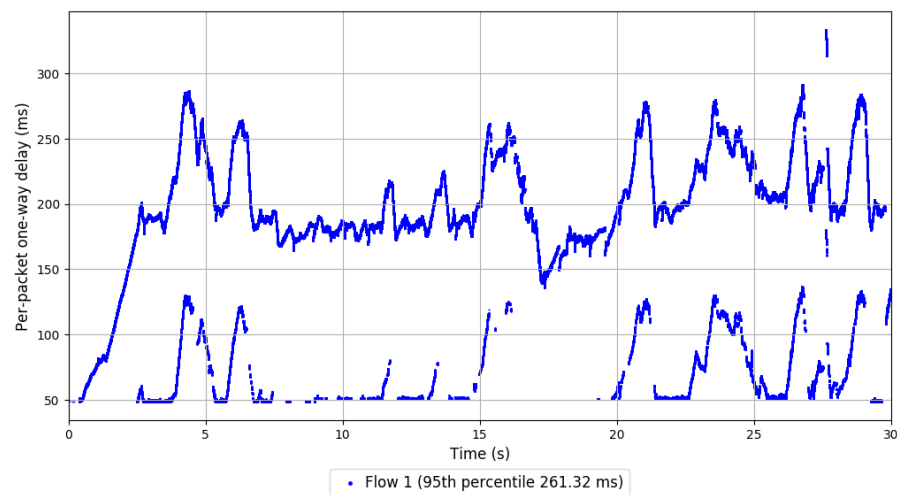
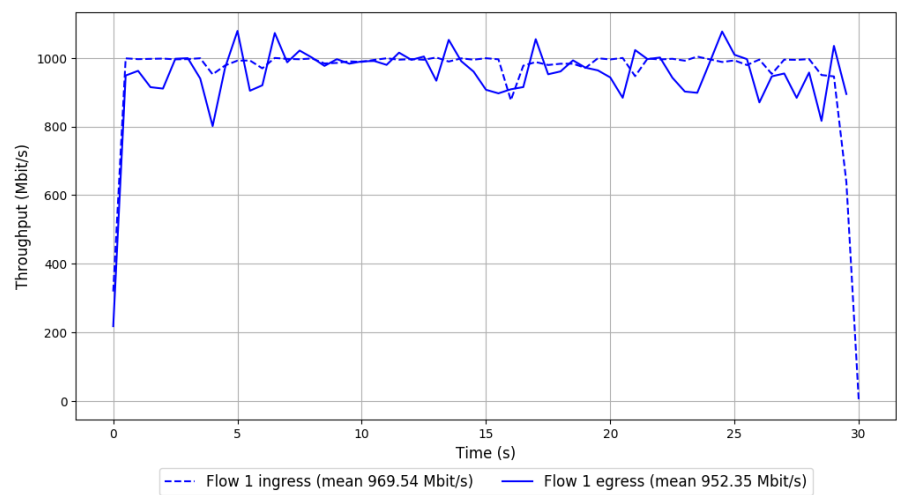
-- Flow 1:

Average throughput: 952.35 Mbit/s

95th percentile per-packet one-way delay: 261.322 ms

Loss rate: 1.95%

Run 10: Report of FillP — Data Link

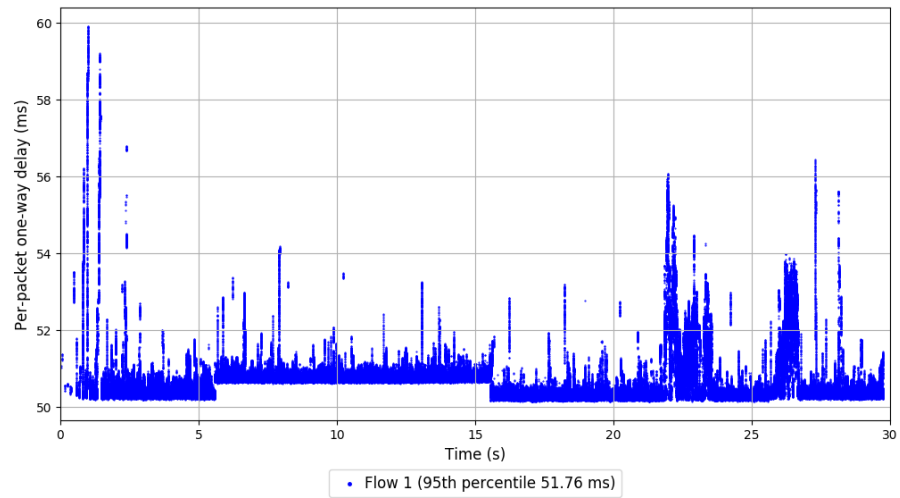
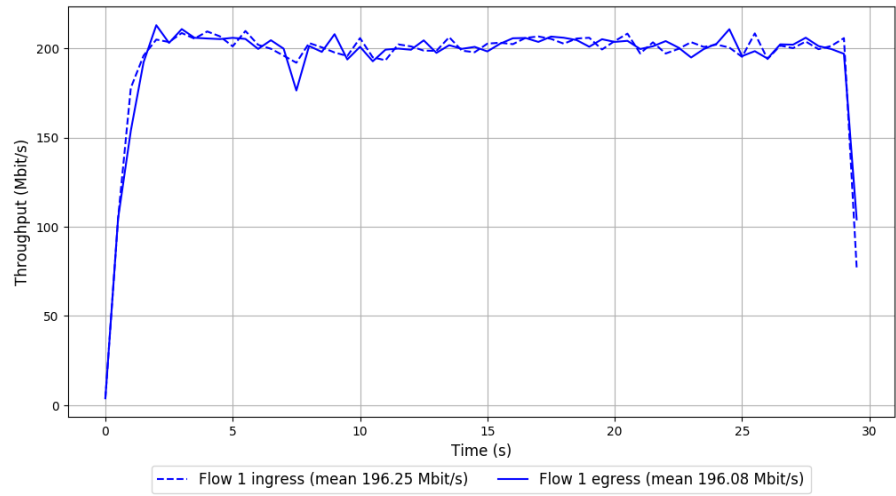


```
Run 1: Statistics of Indigo

Start at: 2018-01-16 17:09:48
End at: 2018-01-16 17:10:18

# Below is generated by plot.py at 2018-01-16 22:10:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 196.08 Mbit/s
95th percentile per-packet one-way delay: 51.756 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 196.08 Mbit/s
95th percentile per-packet one-way delay: 51.756 ms
Loss rate: 0.09%
```

### Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-16 17:24:09

End at: 2018-01-16 17:24:39

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 189.75 Mbit/s

95th percentile per-packet one-way delay: 51.233 ms

Loss rate: 0.00%

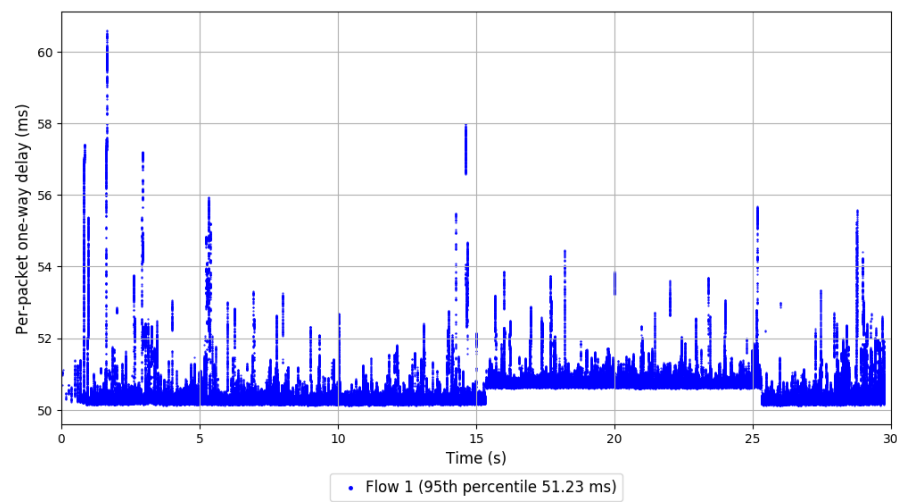
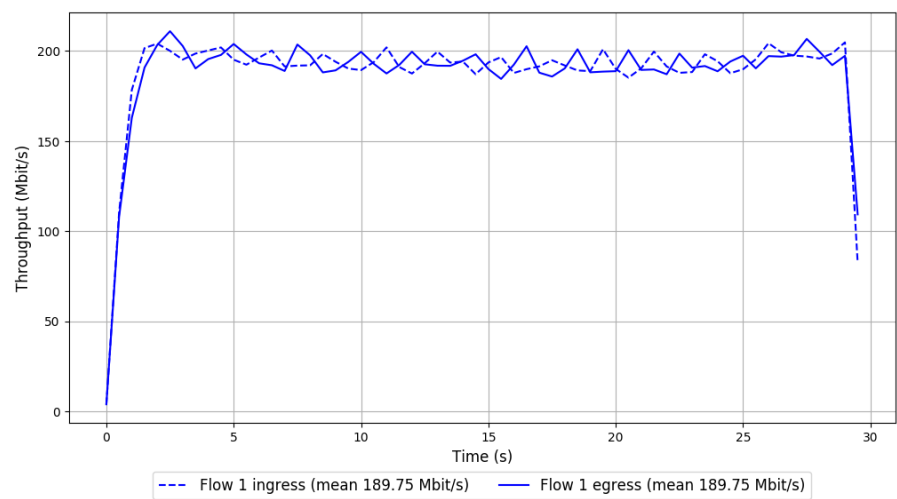
-- Flow 1:

Average throughput: 189.75 Mbit/s

95th percentile per-packet one-way delay: 51.233 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-16 17:38:21

End at: 2018-01-16 17:38:51

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 188.67 Mbit/s

95th percentile per-packet one-way delay: 52.073 ms

Loss rate: 0.00%

-- Flow 1:

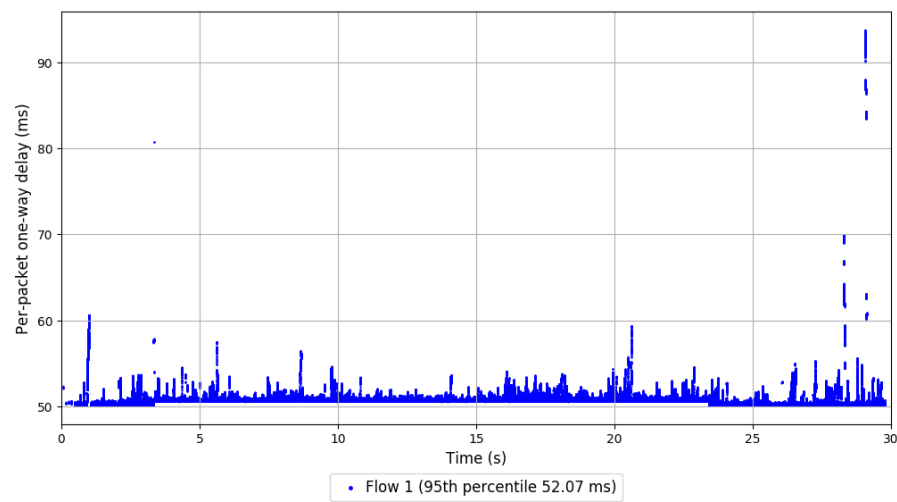
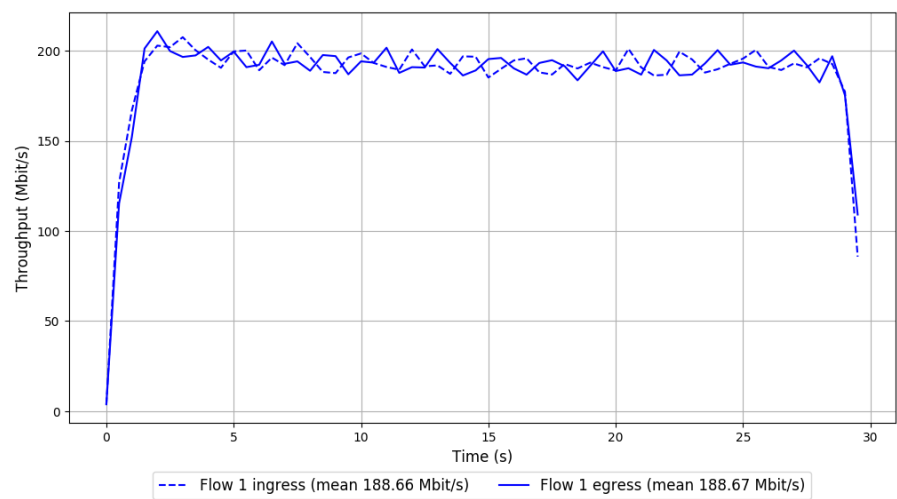
Average throughput: 188.67 Mbit/s

95th percentile per-packet one-way delay: 52.073 ms

Loss rate: 0.00%



Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-16 17:52:24

End at: 2018-01-16 17:52:54

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 190.15 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.00%

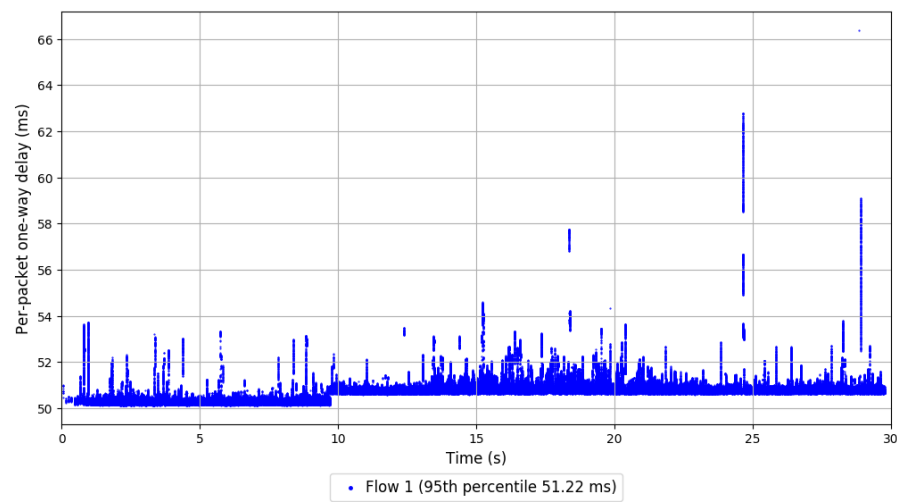
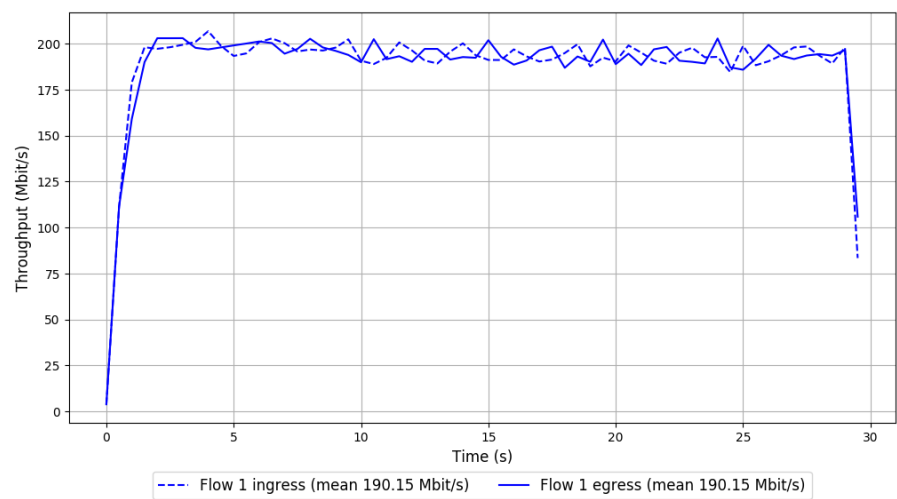
-- Flow 1:

Average throughput: 190.15 Mbit/s

95th percentile per-packet one-way delay: 51.224 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-16 18:06:08

End at: 2018-01-16 18:06:38

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 198.58 Mbit/s

95th percentile per-packet one-way delay: 50.554 ms

Loss rate: 0.00%

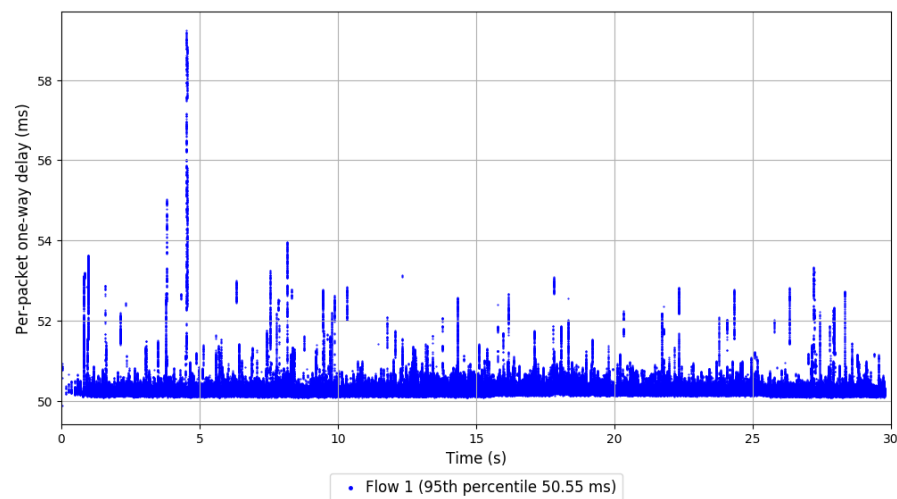
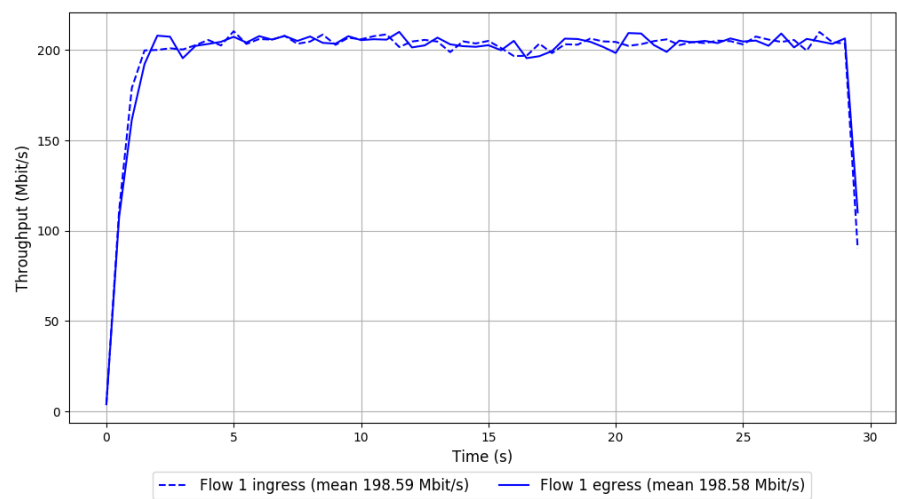
-- Flow 1:

Average throughput: 198.58 Mbit/s

95th percentile per-packet one-way delay: 50.554 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-16 18:20:11

End at: 2018-01-16 18:20:41

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 195.39 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.11%

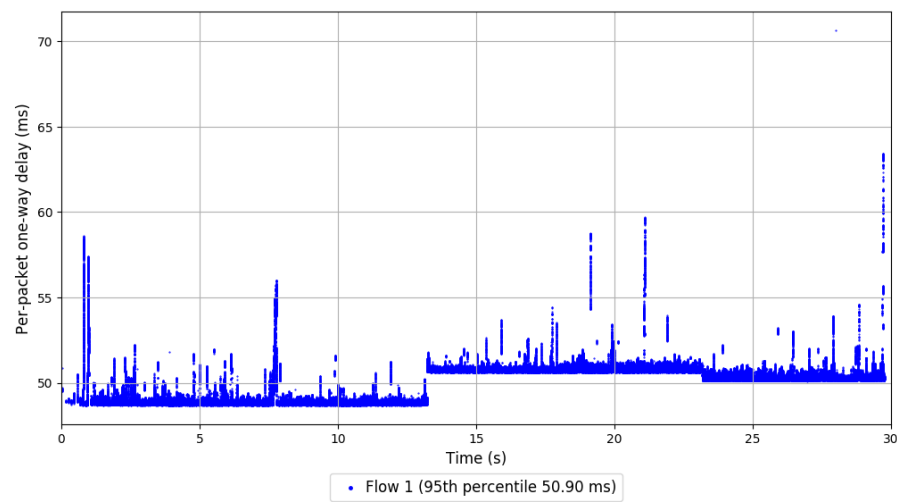
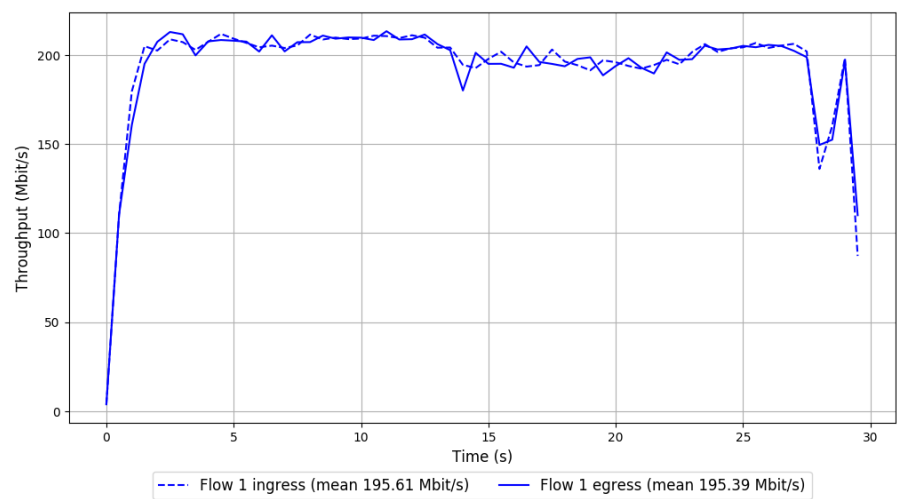
-- Flow 1:

Average throughput: 195.39 Mbit/s

95th percentile per-packet one-way delay: 50.902 ms

Loss rate: 0.11%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-16 18:34:12

End at: 2018-01-16 18:34:42

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 186.33 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

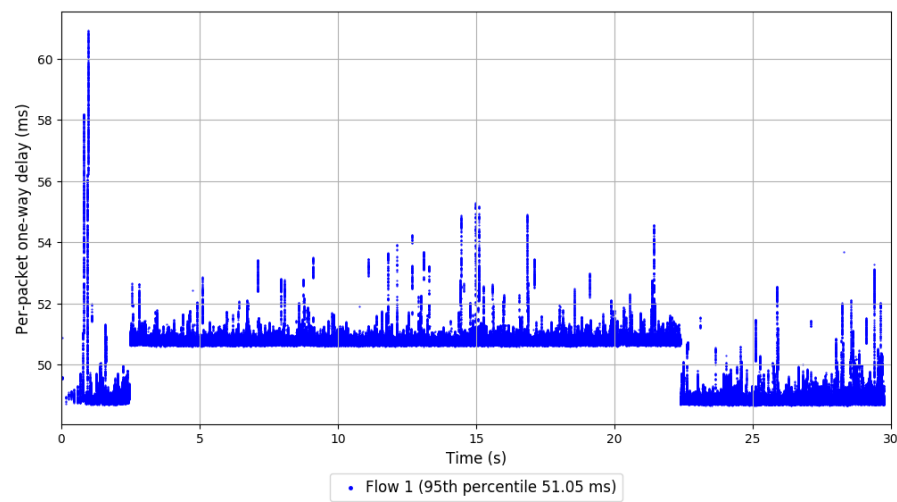
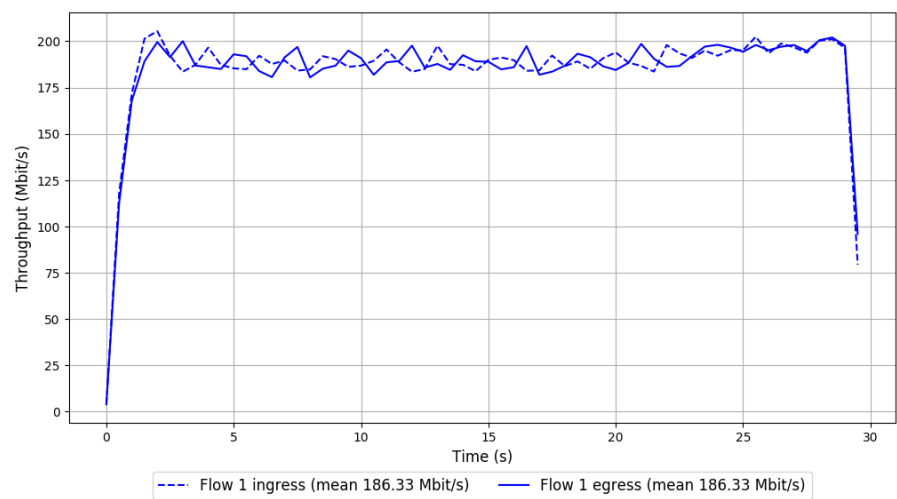
Average throughput: 186.33 Mbit/s

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

Loss rate: 0.00%



Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-16 18:47:57

End at: 2018-01-16 18:48:27

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.92 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.01%

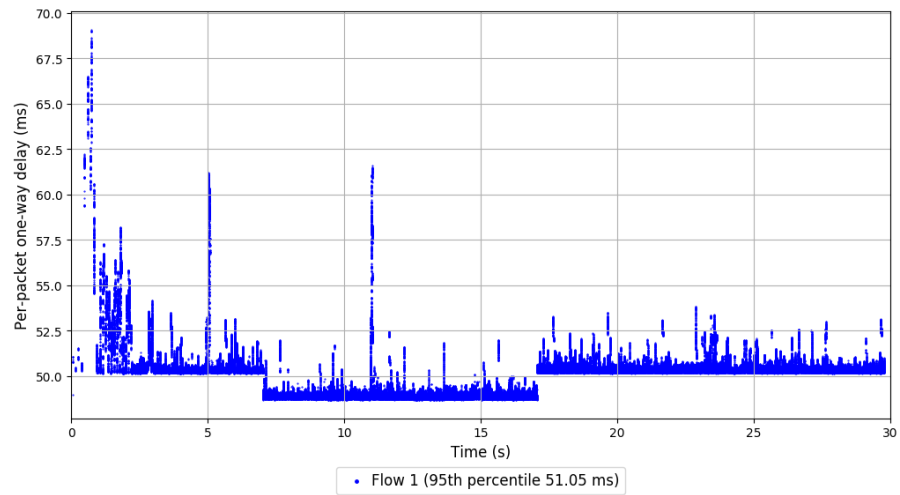
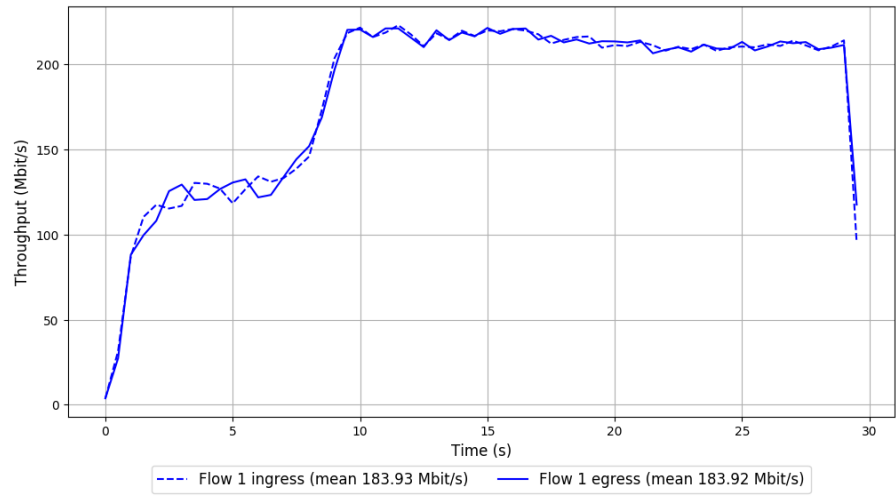
-- Flow 1:

Average throughput: 183.92 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.01%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-16 19:02:13

End at: 2018-01-16 19:02:43

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 193.04 Mbit/s

95th percentile per-packet one-way delay: 50.705 ms

Loss rate: 0.10%

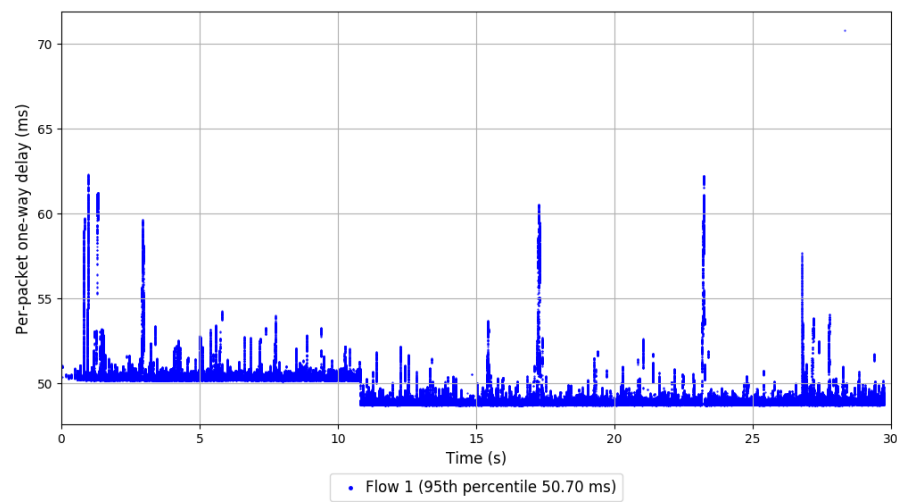
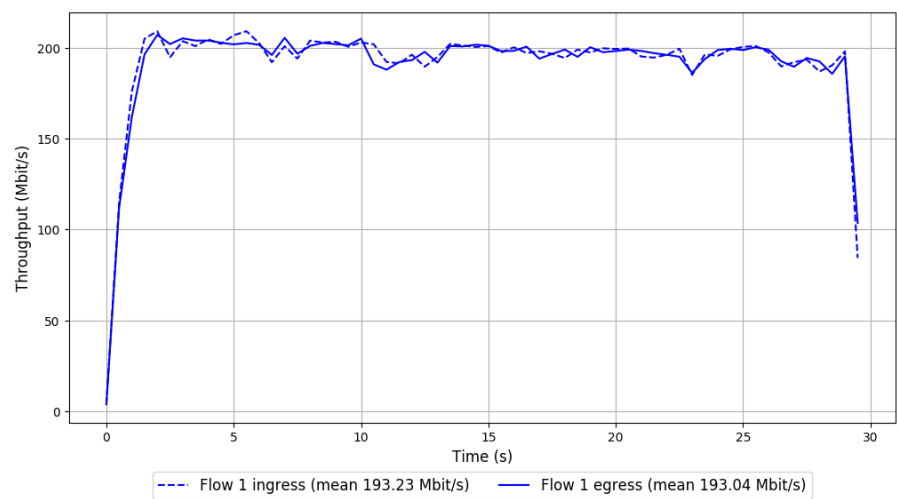
-- Flow 1:

Average throughput: 193.04 Mbit/s

95th percentile per-packet one-way delay: 50.705 ms

Loss rate: 0.10%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

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

End at: 2018-01-16 19:17:00

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 194.14 Mbit/s

95th percentile per-packet one-way delay: 51.735 ms

Loss rate: 0.00%

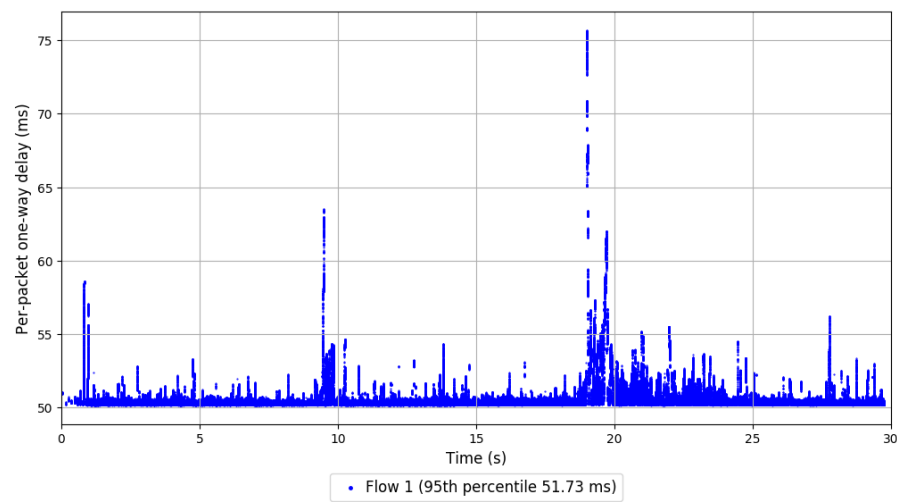
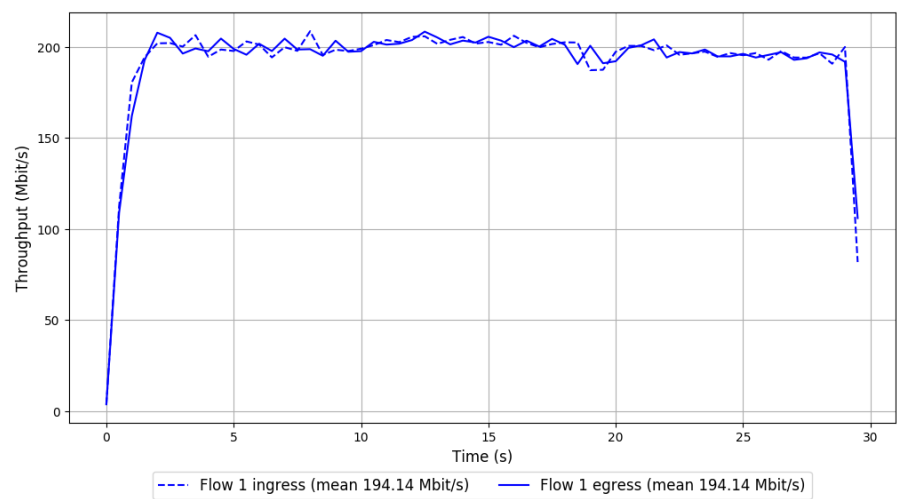
-- Flow 1:

Average throughput: 194.14 Mbit/s

95th percentile per-packet one-way delay: 51.735 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of Vivace-latency

Start at: 2018-01-16 17:02:59

End at: 2018-01-16 17:03:29

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 264.88 Mbit/s

95th percentile per-packet one-way delay: 56.729 ms

Loss rate: 0.29%

-- Flow 1:

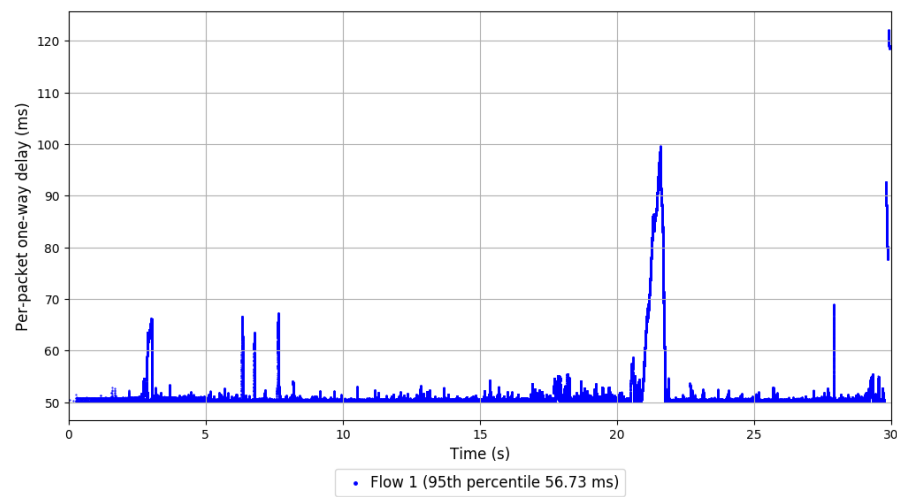
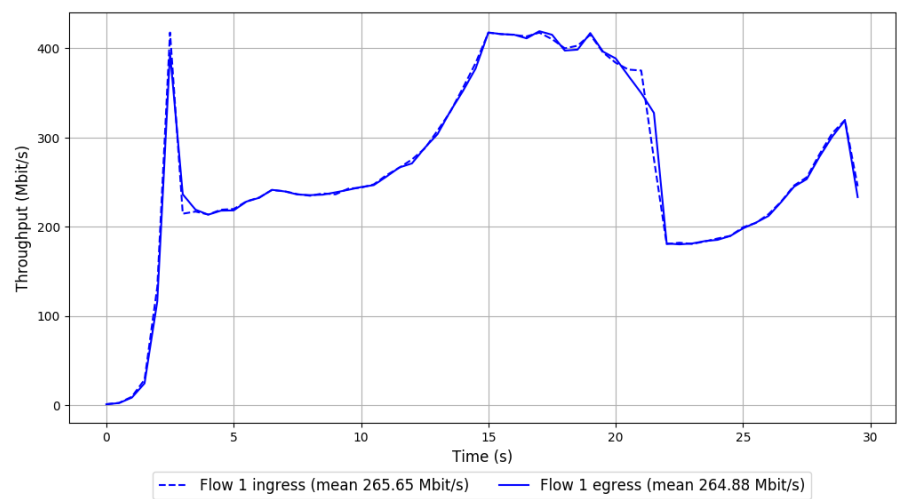
Average throughput: 264.88 Mbit/s

95th percentile per-packet one-way delay: 56.729 ms

Loss rate: 0.29%



Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-16 17:17:19

End at: 2018-01-16 17:17:49

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.72 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.00%

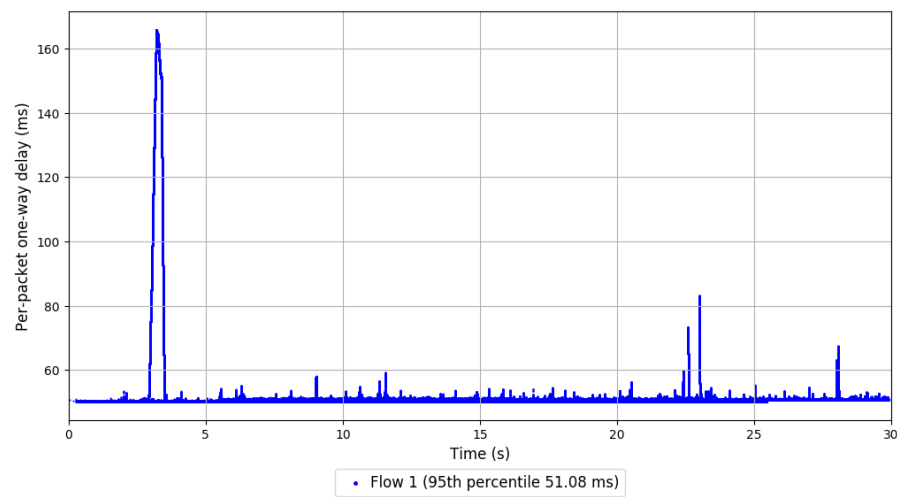
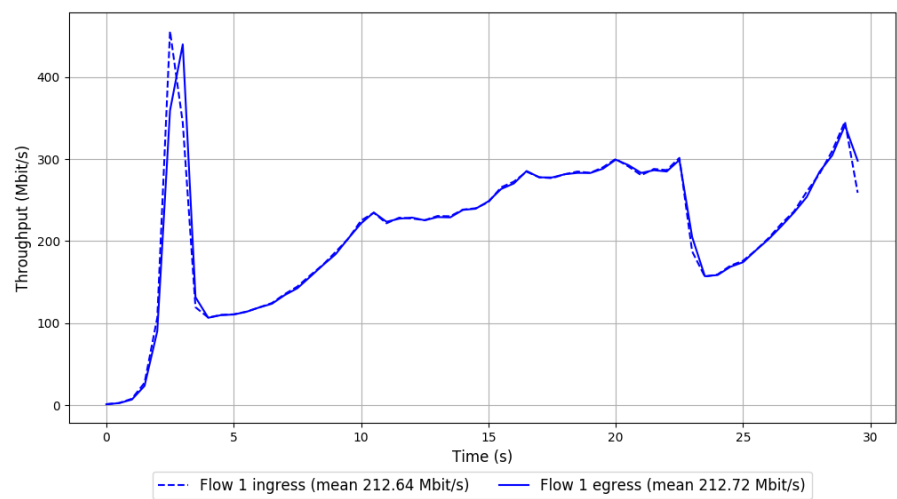
-- Flow 1:

Average throughput: 212.72 Mbit/s

95th percentile per-packet one-way delay: 51.081 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-16 17:31:32

End at: 2018-01-16 17:32:02

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 229.80 Mbit/s

95th percentile per-packet one-way delay: 50.795 ms

Loss rate: 0.00%

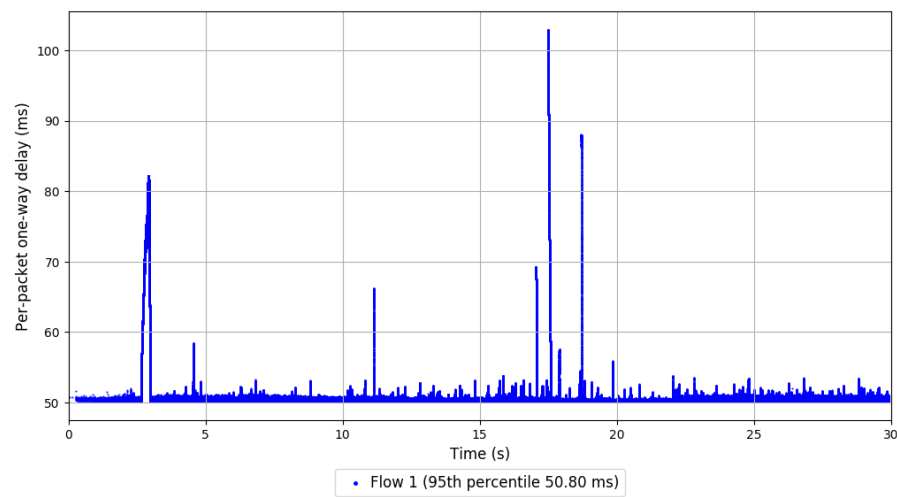
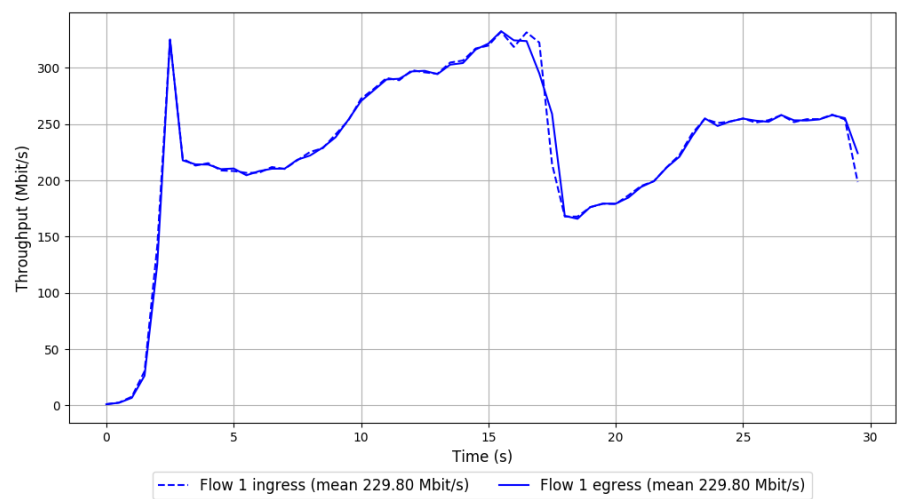
-- Flow 1:

Average throughput: 229.80 Mbit/s

95th percentile per-packet one-way delay: 50.795 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-16 17:45:44

End at: 2018-01-16 17:46:14

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.56 Mbit/s

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

Loss rate: 0.00%

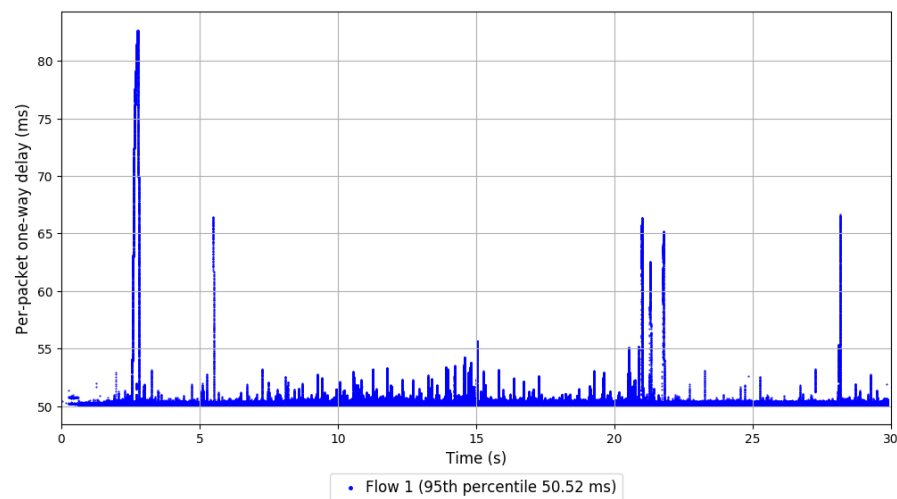
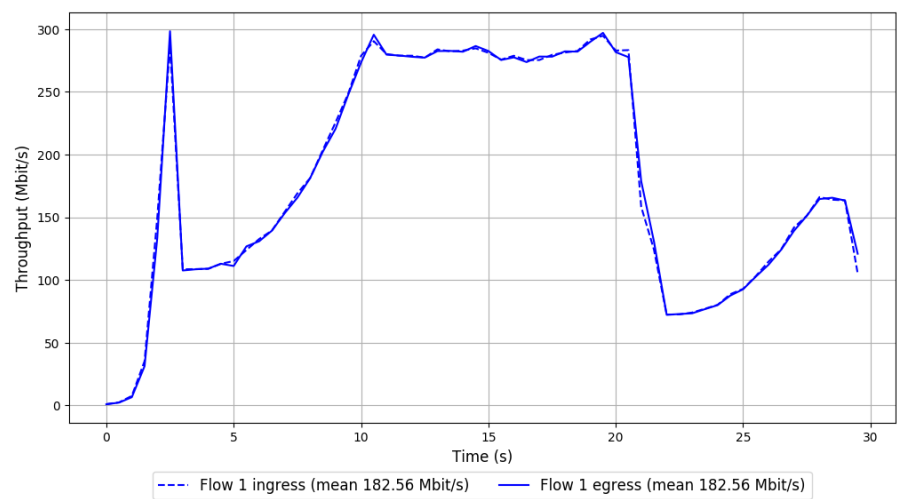
-- Flow 1:

Average throughput: 182.56 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-16 17:59:45

End at: 2018-01-16 18:00:15

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.56 Mbit/s

95th percentile per-packet one-way delay: 50.851 ms

Loss rate: 0.00%

-- Flow 1:

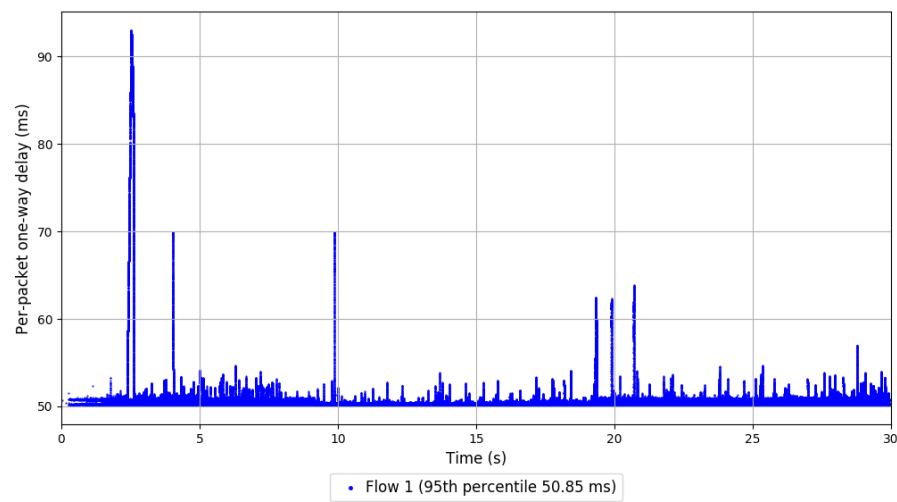
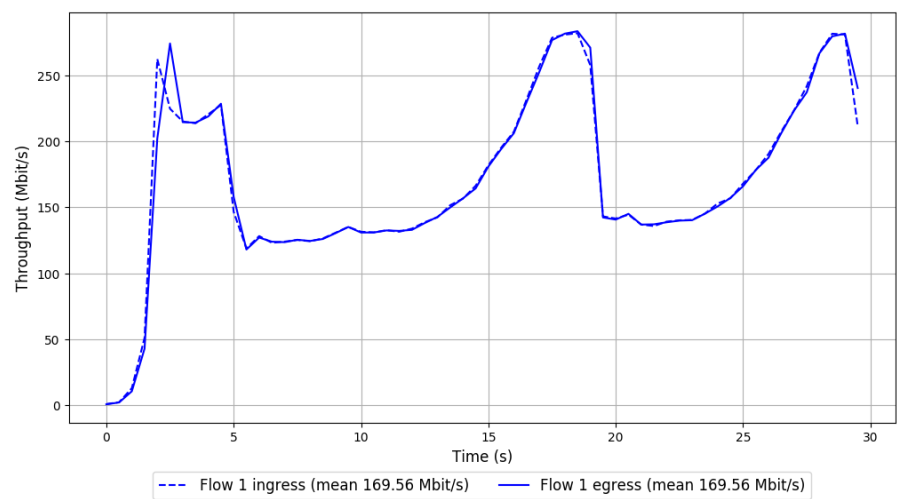
Average throughput: 169.56 Mbit/s

95th percentile per-packet one-way delay: 50.851 ms

Loss rate: 0.00%



Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-16 18:13:30

End at: 2018-01-16 18:14:00

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 168.24 Mbit/s

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

Loss rate: 0.00%

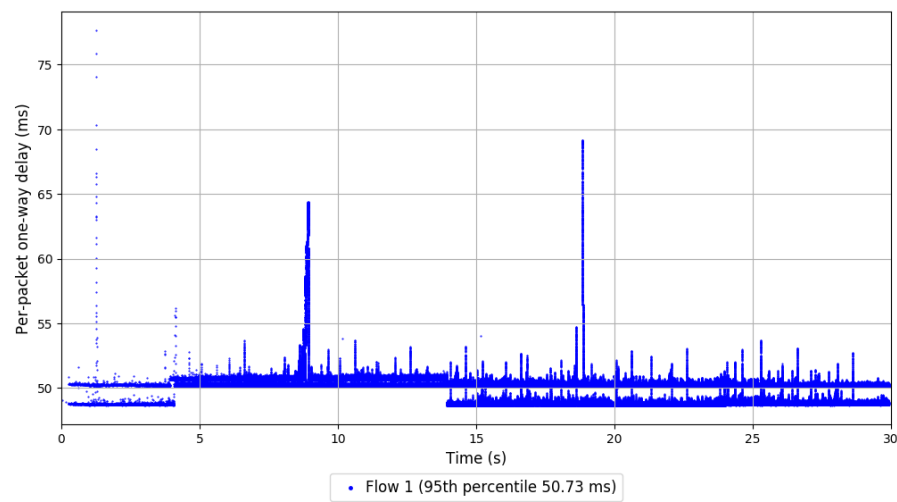
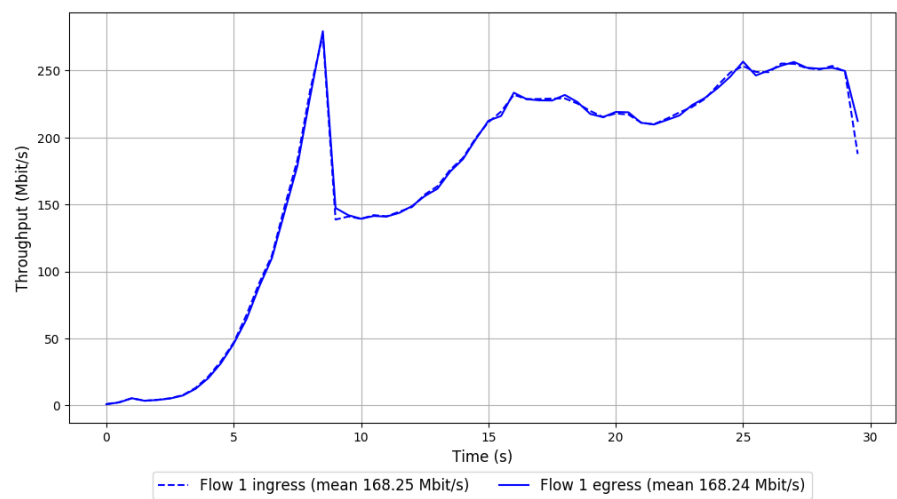
-- Flow 1:

Average throughput: 168.24 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-16 18:27:39

End at: 2018-01-16 18:28:09

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 194.10 Mbit/s

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

Loss rate: 0.00%

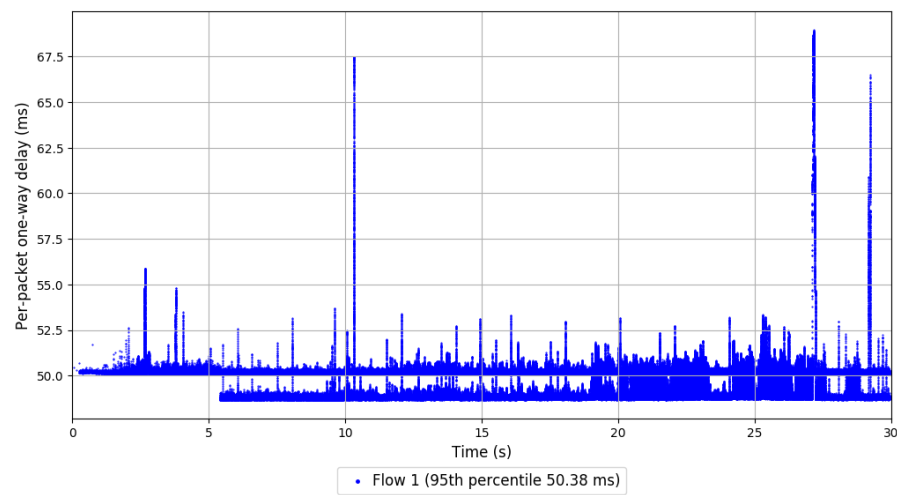
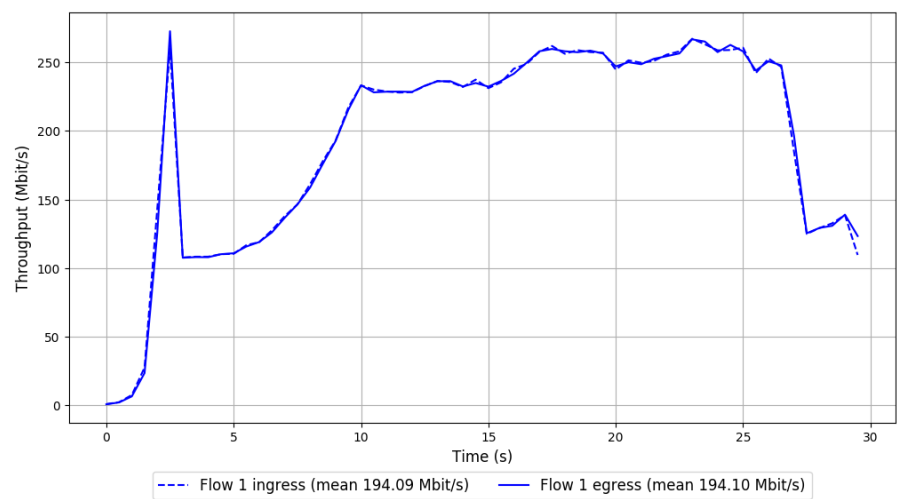
-- Flow 1:

Average throughput: 194.10 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-16 18:41:31

End at: 2018-01-16 18:42:01

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 137.81 Mbit/s

95th percentile per-packet one-way delay: 50.937 ms

Loss rate: 0.00%

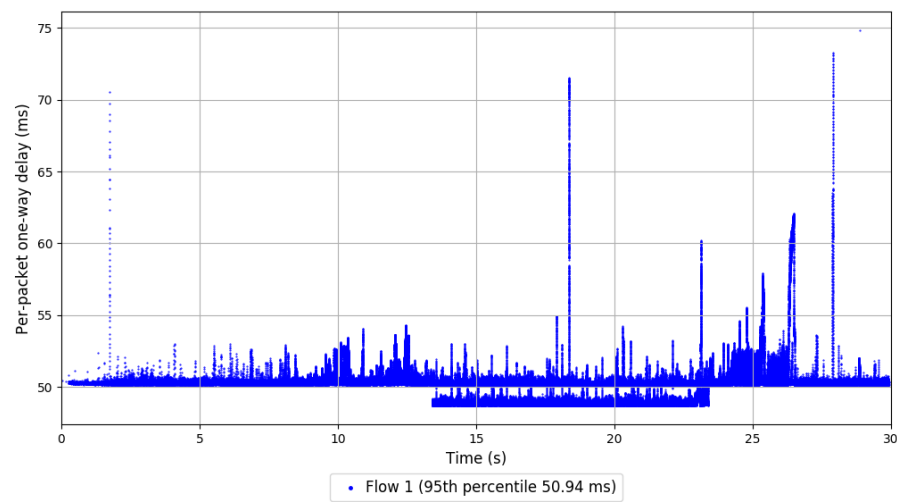
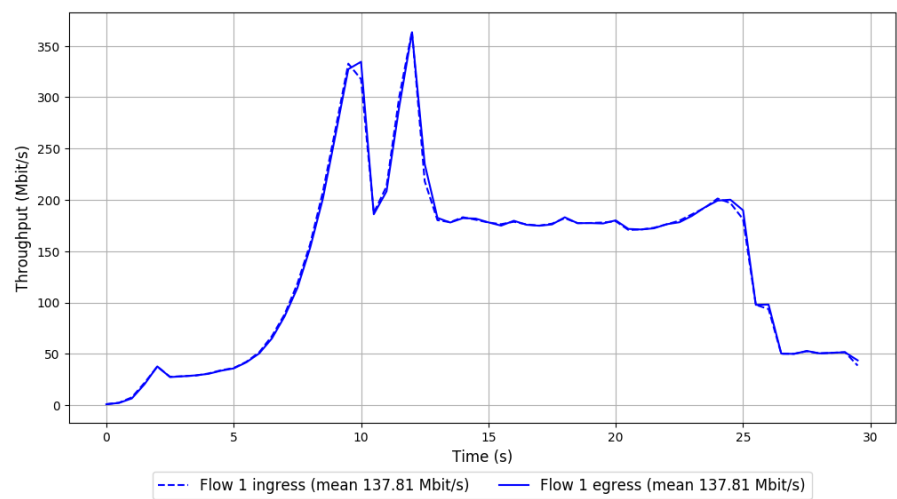
-- Flow 1:

Average throughput: 137.81 Mbit/s

95th percentile per-packet one-way delay: 50.937 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-16 18:55:39

End at: 2018-01-16 18:56:09

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 136.21 Mbit/s

95th percentile per-packet one-way delay: 50.861 ms

Loss rate: 0.00%

-- Flow 1:

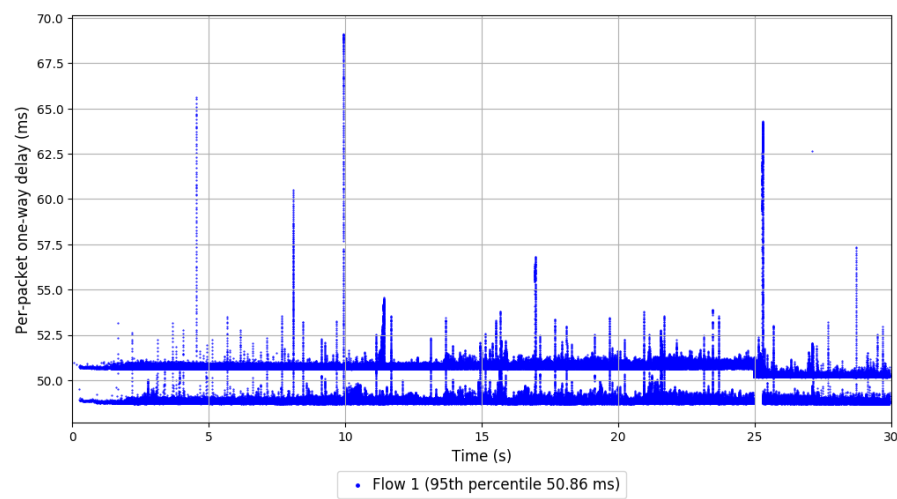
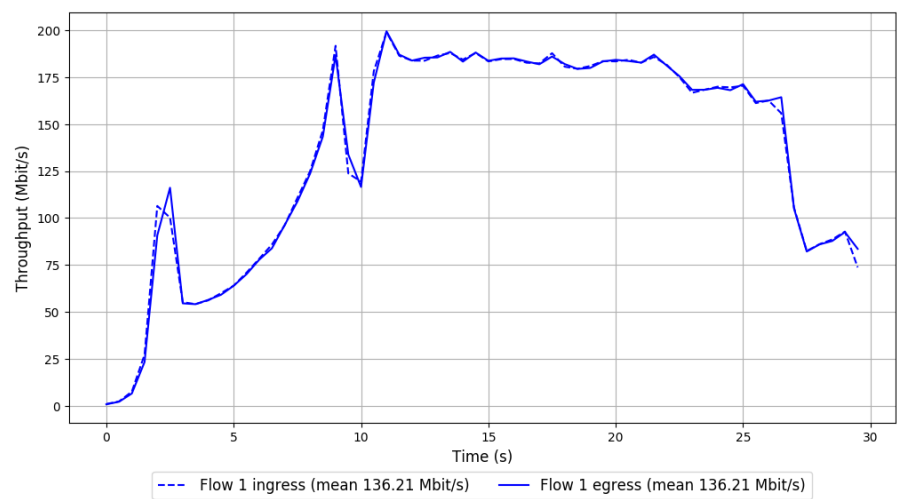
Average throughput: 136.21 Mbit/s

95th percentile per-packet one-way delay: 50.861 ms

Loss rate: 0.00%



Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-16 19:09:48

End at: 2018-01-16 19:10:18

# Below is generated by plot.py at 2018-01-16 22:10:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 190.30 Mbit/s

95th percentile per-packet one-way delay: 50.988 ms

Loss rate: 0.00%

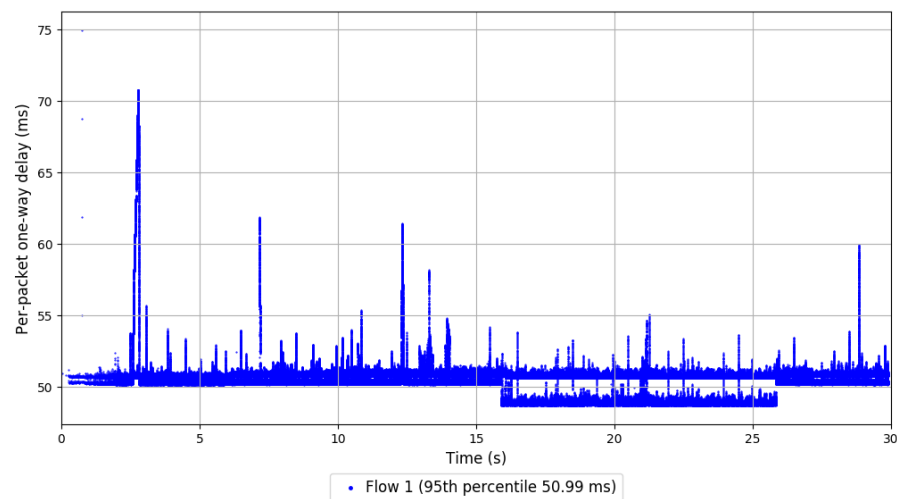
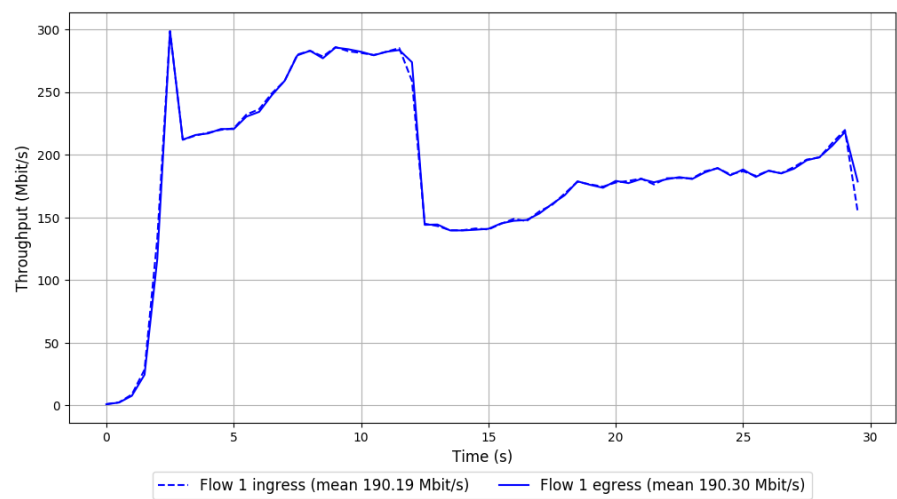
-- Flow 1:

Average throughput: 190.30 Mbit/s

95th percentile per-packet one-way delay: 50.988 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

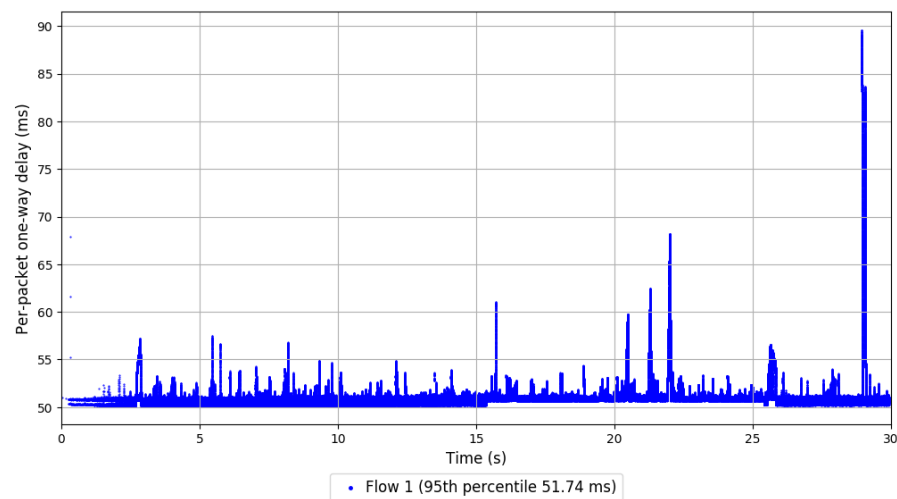
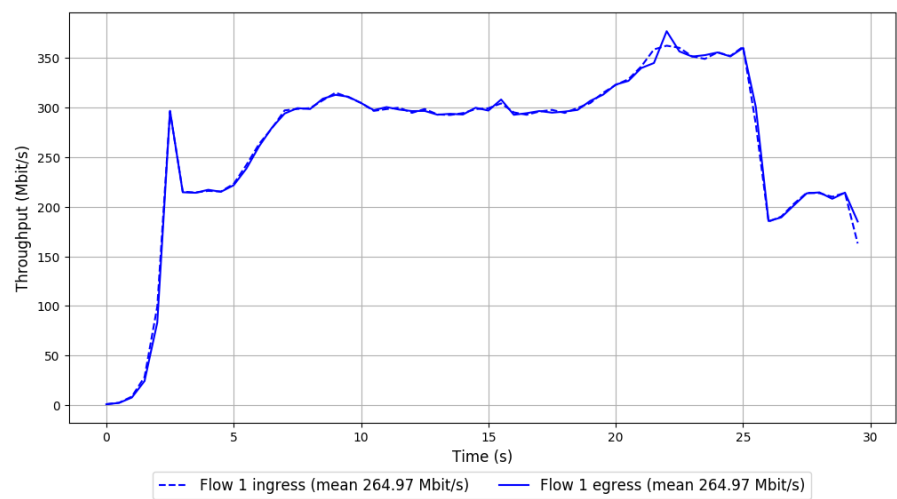


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-16 17:07:49
End at: 2018-01-16 17:08:19

# Below is generated by plot.py at 2018-01-16 22:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.97 Mbit/s
95th percentile per-packet one-way delay: 51.745 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 264.97 Mbit/s
95th percentile per-packet one-way delay: 51.745 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-16 17:22:13

End at: 2018-01-16 17:22:43

# Below is generated by plot.py at 2018-01-16 22:14:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 240.76 Mbit/s

95th percentile per-packet one-way delay: 51.157 ms

Loss rate: 0.00%

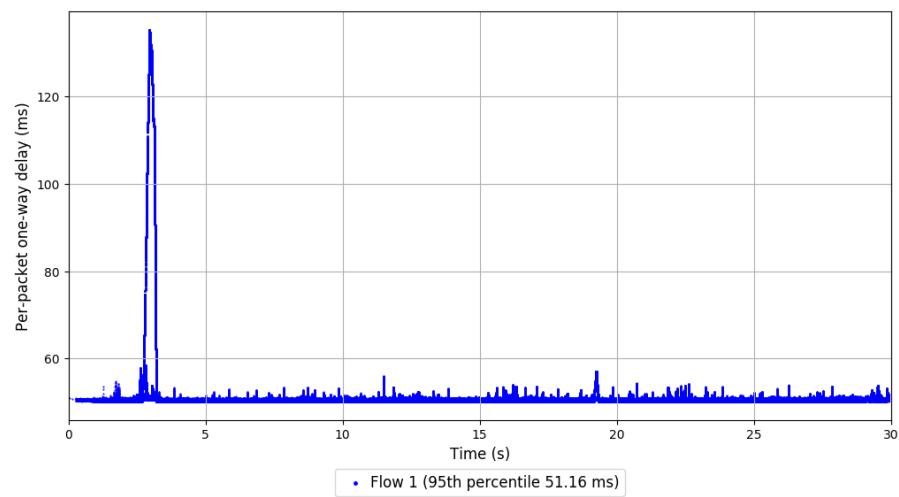
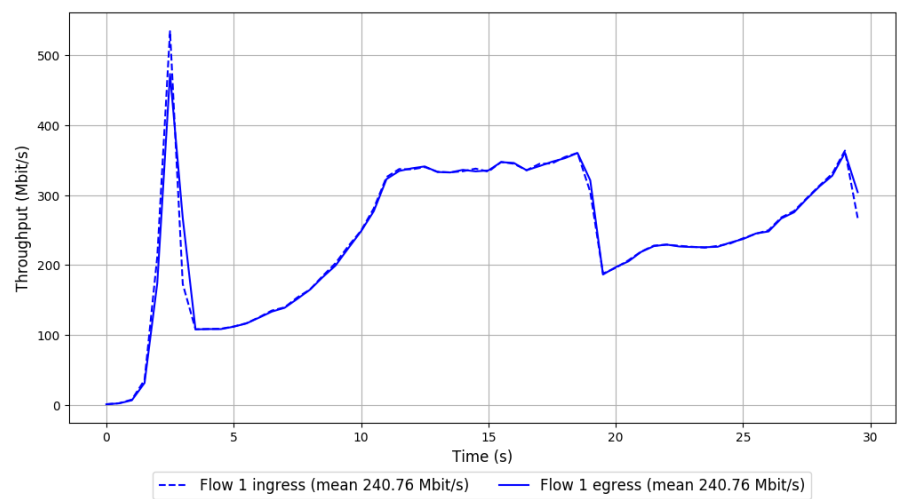
-- Flow 1:

Average throughput: 240.76 Mbit/s

95th percentile per-packet one-way delay: 51.157 ms

Loss rate: 0.00%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-16 17:36:27

End at: 2018-01-16 17:36:57

# Below is generated by plot.py at 2018-01-16 22:15:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 194.20 Mbit/s

95th percentile per-packet one-way delay: 51.087 ms

Loss rate: 0.00%

-- Flow 1:

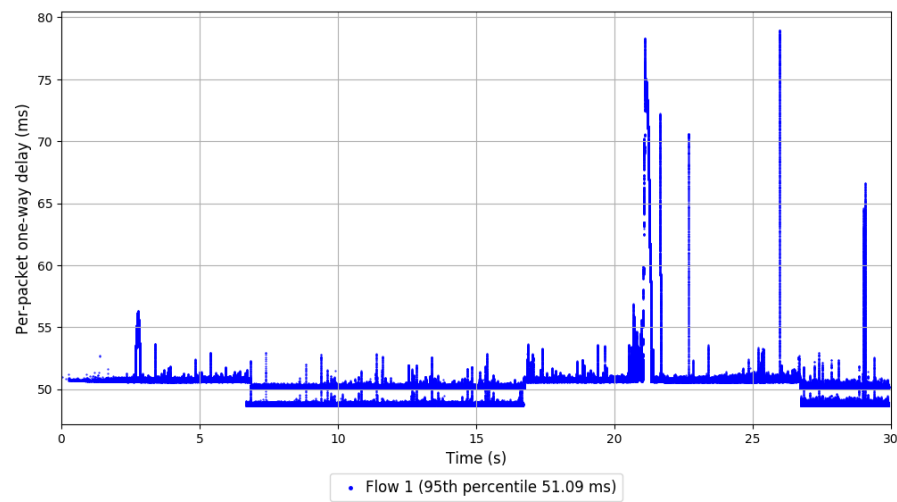
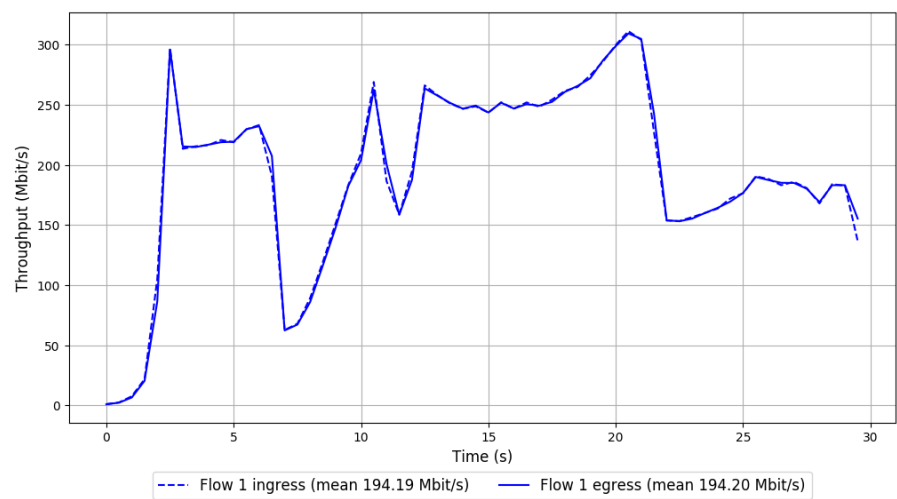
Average throughput: 194.20 Mbit/s

95th percentile per-packet one-way delay: 51.087 ms

Loss rate: 0.00%



Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-16 17:50:28

End at: 2018-01-16 17:50:58

# Below is generated by plot.py at 2018-01-16 22:16:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 228.14 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.00%

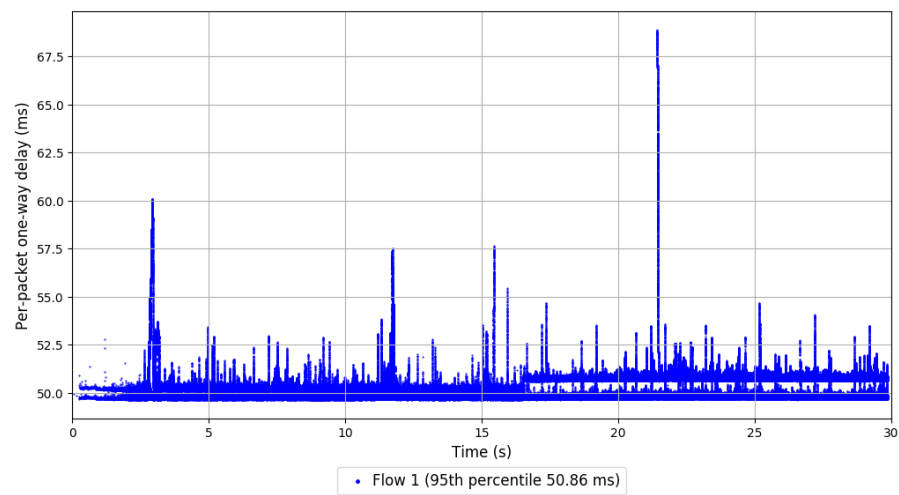
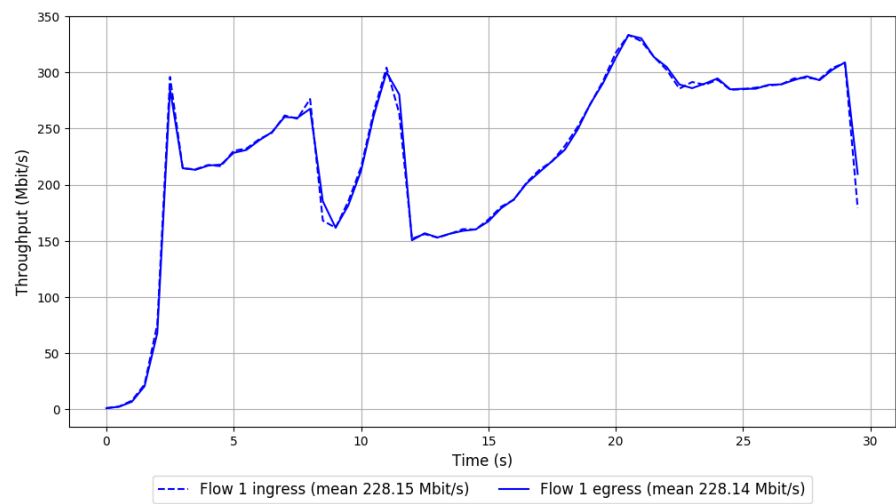
-- Flow 1:

Average throughput: 228.14 Mbit/s

95th percentile per-packet one-way delay: 50.857 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-16 18:04:29

End at: 2018-01-16 18:04:59

# Below is generated by plot.py at 2018-01-16 22:16:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 142.48 Mbit/s

95th percentile per-packet one-way delay: 52.520 ms

Loss rate: 0.00%

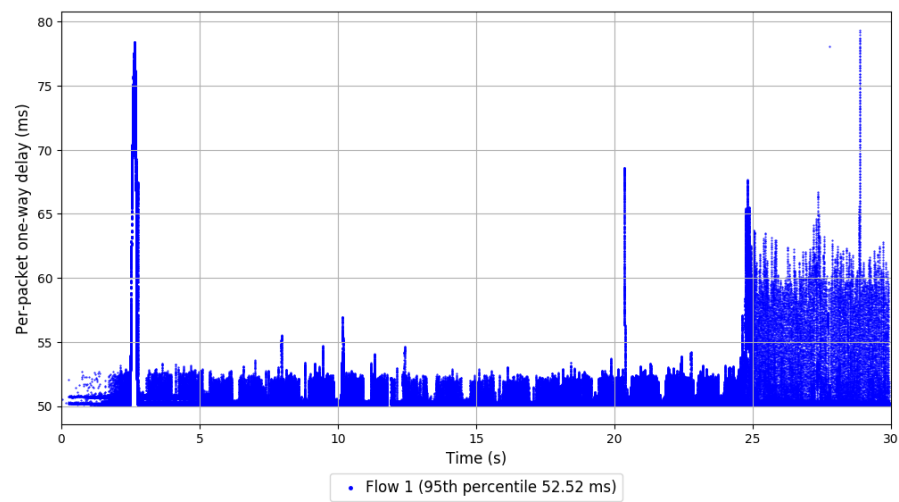
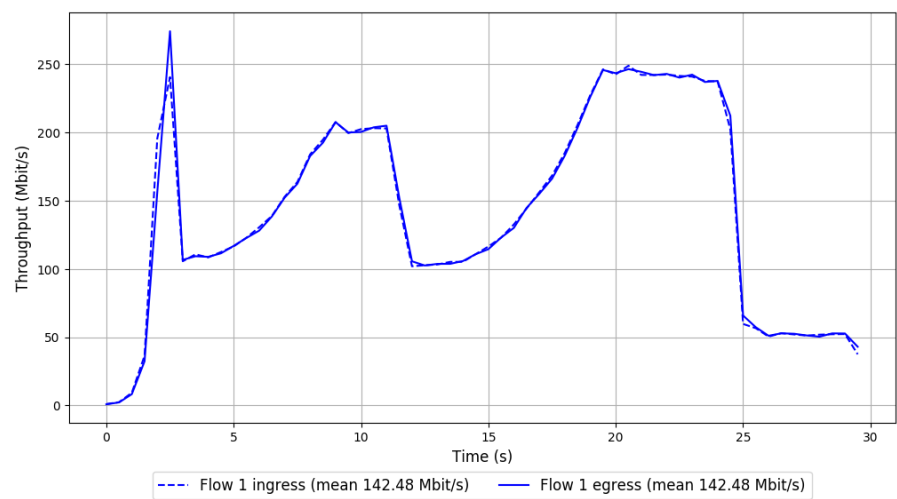
-- Flow 1:

Average throughput: 142.48 Mbit/s

95th percentile per-packet one-way delay: 52.520 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-16 18:18:26

End at: 2018-01-16 18:18:56

# Below is generated by plot.py at 2018-01-16 22:16:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 155.71 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.00%

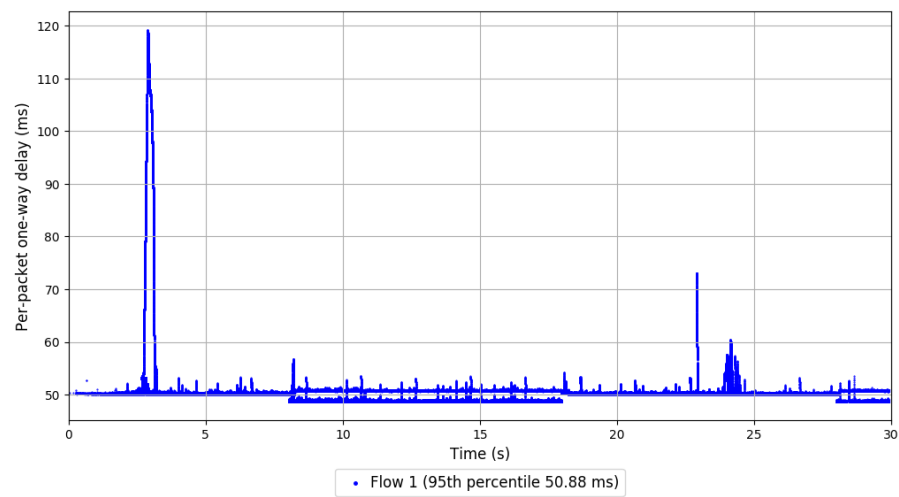
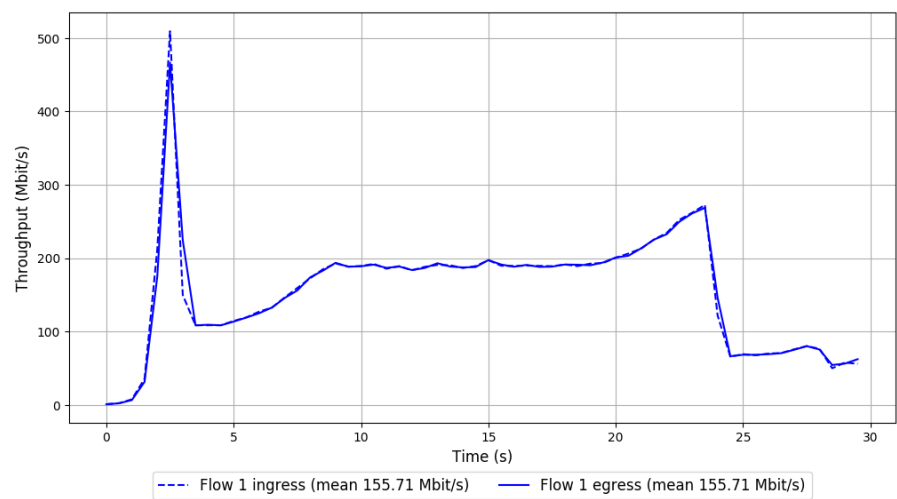
-- Flow 1:

Average throughput: 155.71 Mbit/s

95th percentile per-packet one-way delay: 50.885 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-16 18:32:24

End at: 2018-01-16 18:32:54

# Below is generated by plot.py at 2018-01-16 22:17:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 206.46 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

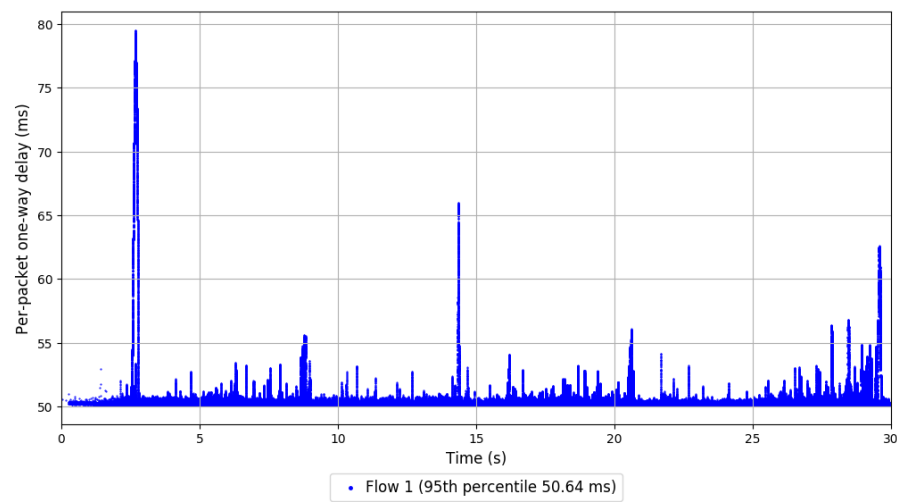
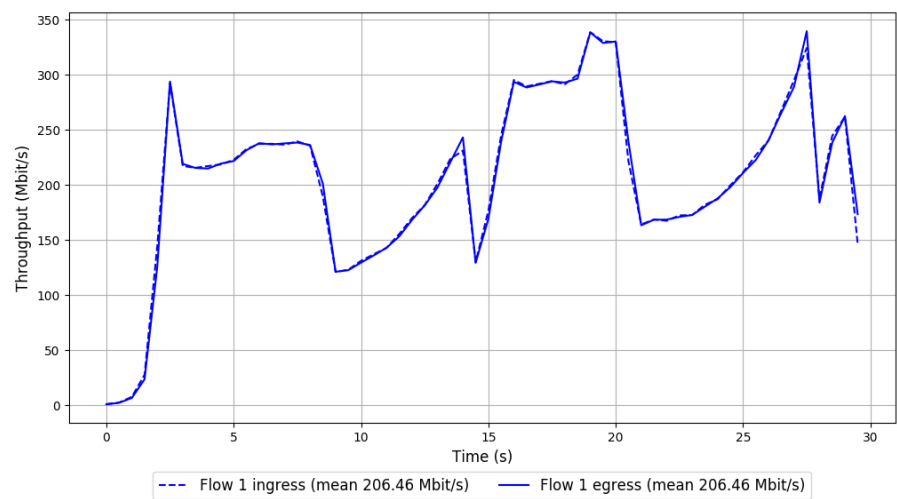
Average throughput: 206.46 Mbit/s

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

Loss rate: 0.00%



Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-16 18:46:11

End at: 2018-01-16 18:46:41

# Below is generated by plot.py at 2018-01-16 22:17:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 220.28 Mbit/s

95th percentile per-packet one-way delay: 51.412 ms

Loss rate: 0.00%

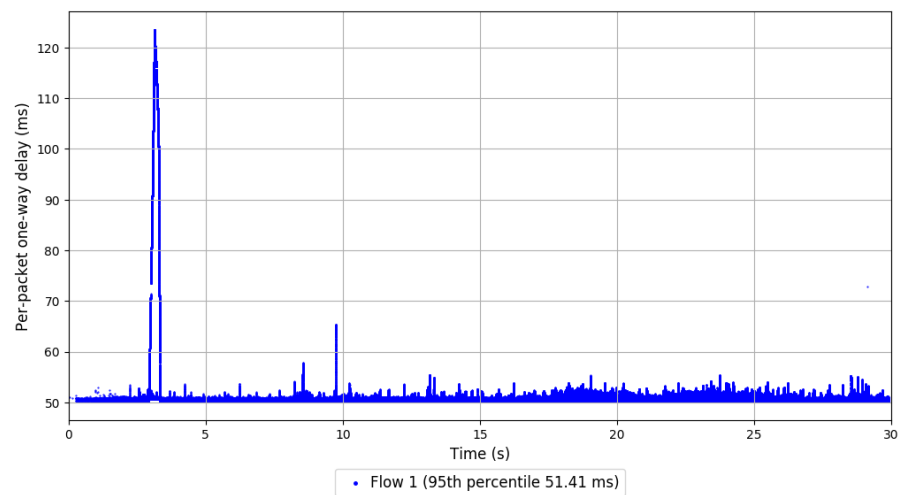
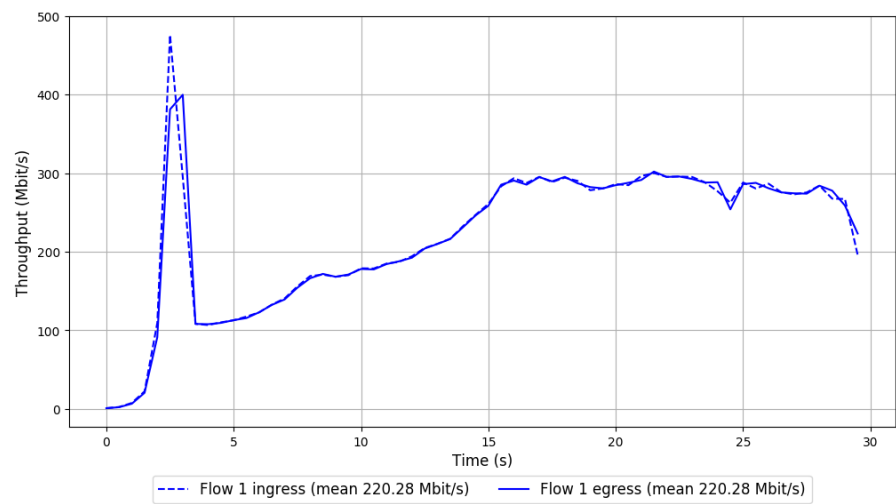
-- Flow 1:

Average throughput: 220.28 Mbit/s

95th percentile per-packet one-way delay: 51.412 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-16 19:00:26

End at: 2018-01-16 19:00:56

# Below is generated by plot.py at 2018-01-16 22:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 168.77 Mbit/s

95th percentile per-packet one-way delay: 50.787 ms

Loss rate: 0.00%

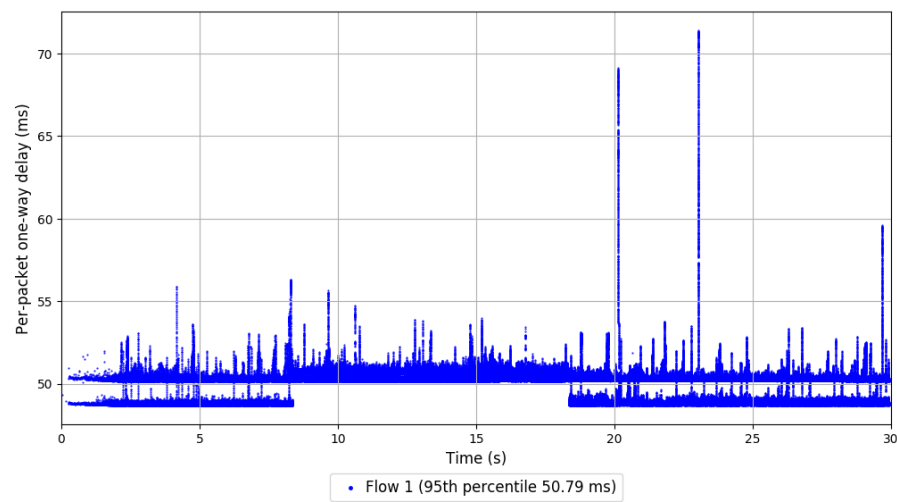
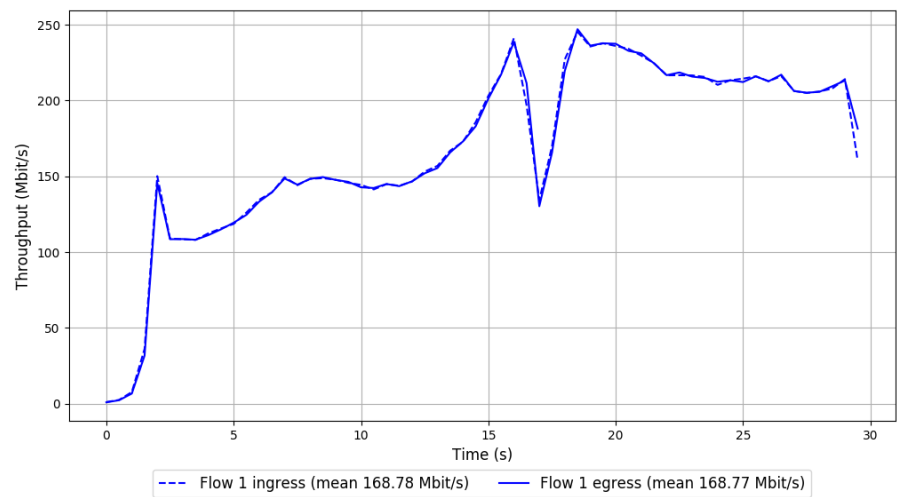
-- Flow 1:

Average throughput: 168.77 Mbit/s

95th percentile per-packet one-way delay: 50.787 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-16 19:14:40

End at: 2018-01-16 19:15:10

# Below is generated by plot.py at 2018-01-16 22:18:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 205.85 Mbit/s

95th percentile per-packet one-way delay: 50.463 ms

Loss rate: 0.00%

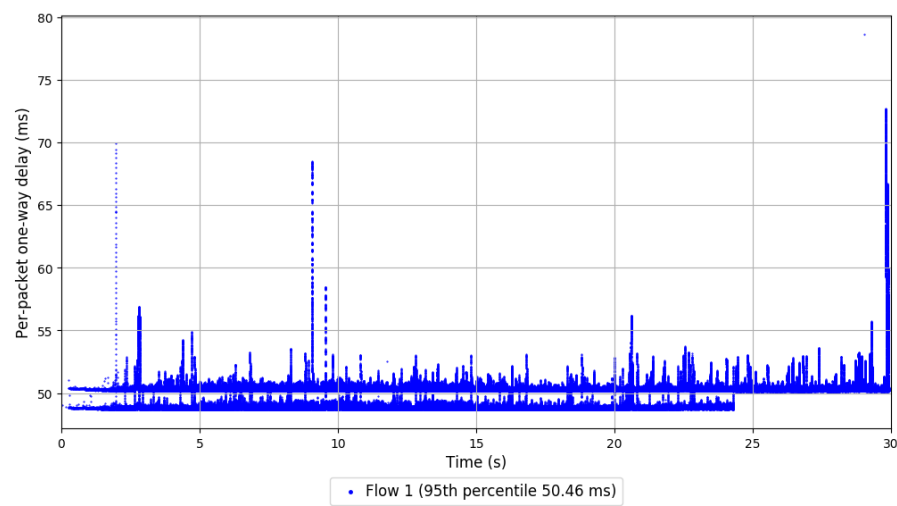
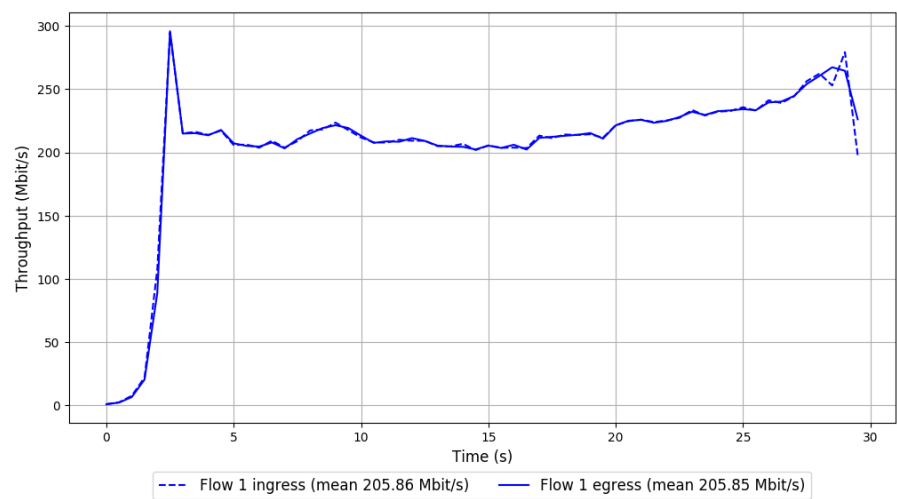
-- Flow 1:

Average throughput: 205.85 Mbit/s

95th percentile per-packet one-way delay: 50.463 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link



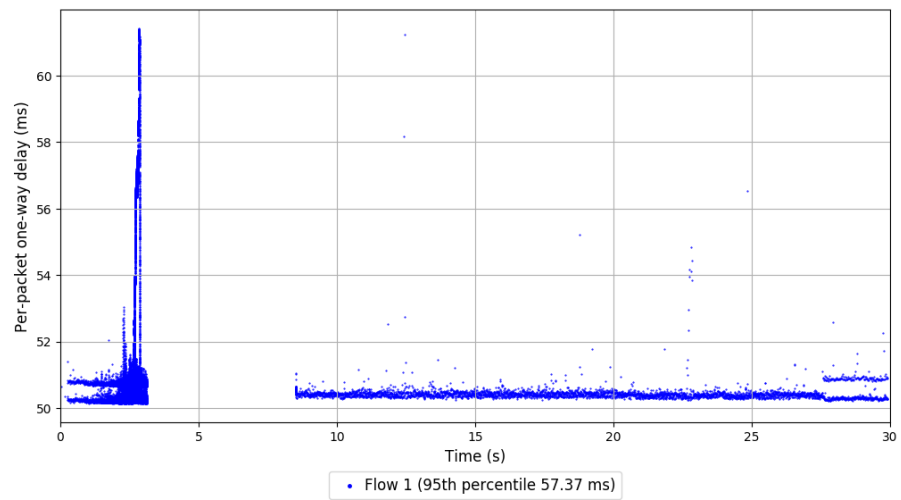
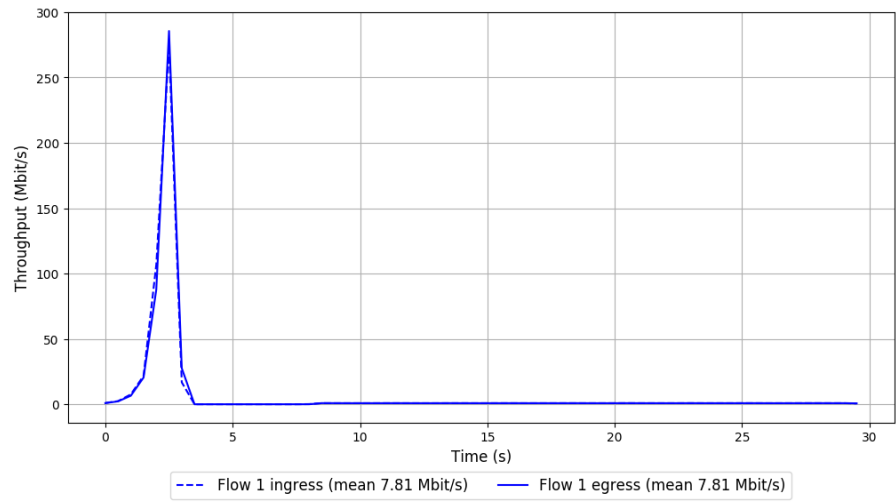
```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-16 16:59:57
End at: 2018-01-16 17:00:27

# Below is generated by plot.py at 2018-01-16 22:18:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 57.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.81 Mbit/s
95th percentile per-packet one-way delay: 57.370 ms
Loss rate: 0.00%
```



### Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-16 17:14:15

End at: 2018-01-16 17:14:45

# Below is generated by plot.py at 2018-01-16 22:18:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 113.496 ms

Loss rate: 0.00%

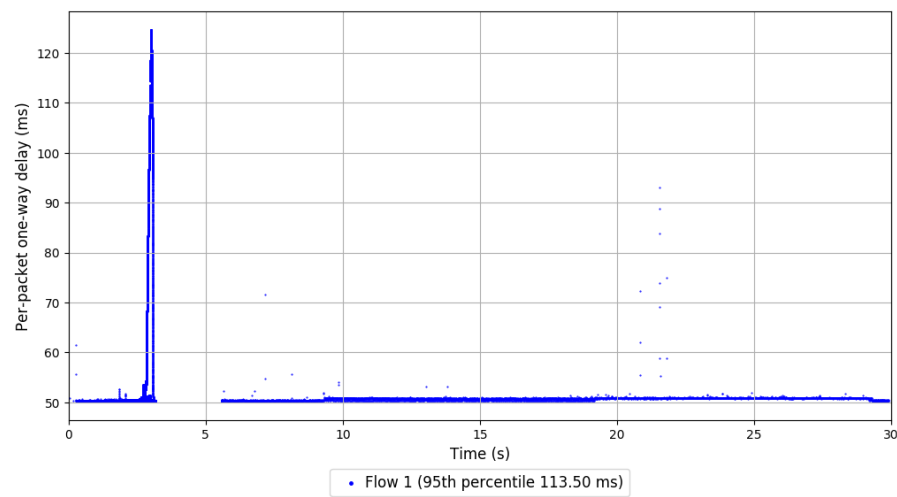
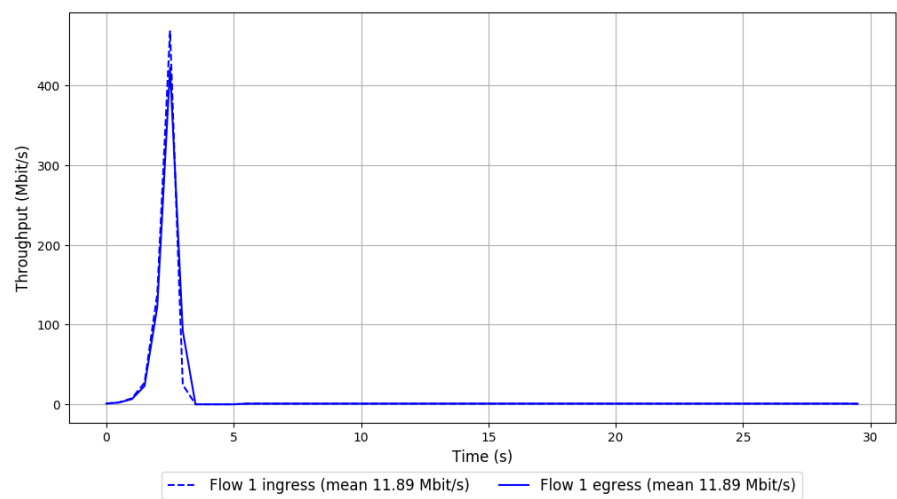
-- Flow 1:

Average throughput: 11.89 Mbit/s

95th percentile per-packet one-way delay: 113.496 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-16 17:28:30

End at: 2018-01-16 17:29:00

# Below is generated by plot.py at 2018-01-16 22:18:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 51.214 ms

Loss rate: 0.00%

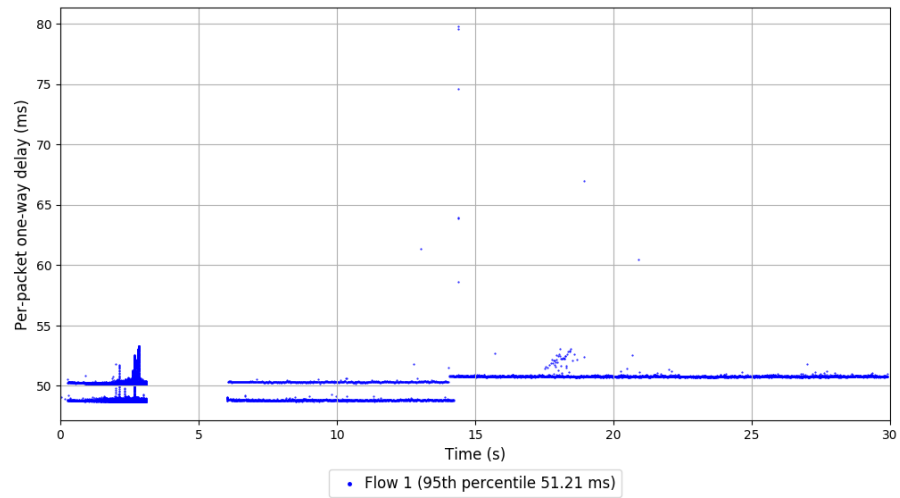
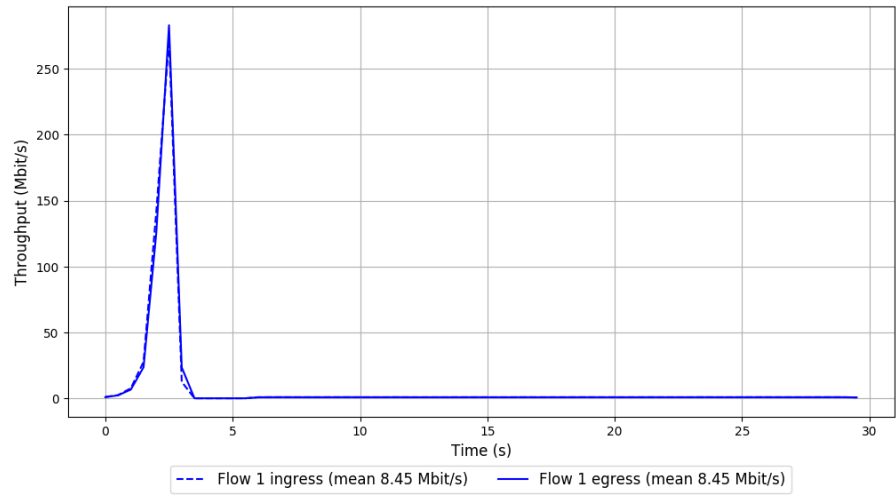
-- Flow 1:

Average throughput: 8.45 Mbit/s

95th percentile per-packet one-way delay: 51.214 ms

Loss rate: 0.00%

### Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-16 17:42:41

End at: 2018-01-16 17:43:11

# Below is generated by plot.py at 2018-01-16 22:18:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 53.384 ms

Loss rate: 0.00%

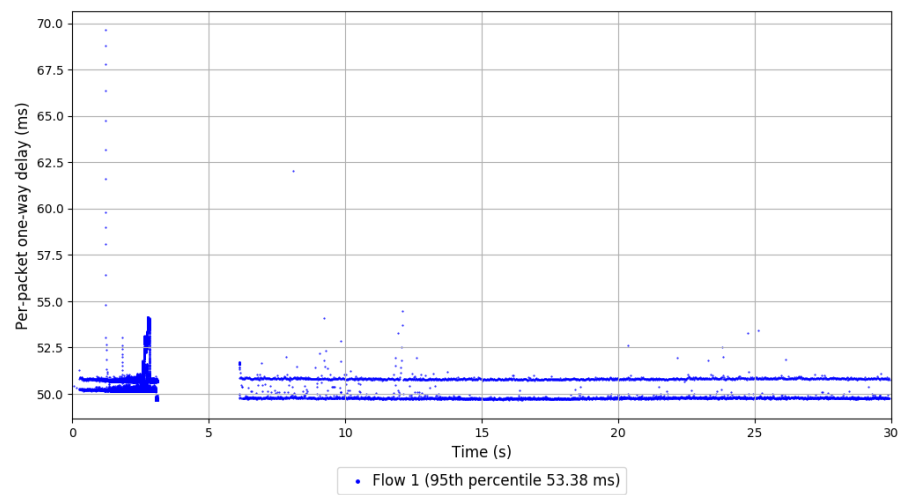
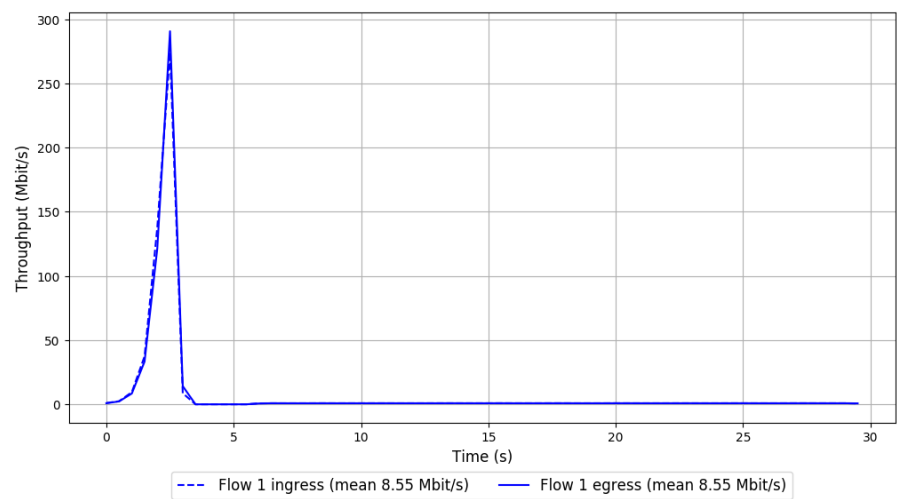
-- Flow 1:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 53.384 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-16 17:56:43

End at: 2018-01-16 17:57:13

# Below is generated by plot.py at 2018-01-16 22:18:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.99 Mbit/s

95th percentile per-packet one-way delay: 124.286 ms

Loss rate: 0.00%

-- Flow 1:

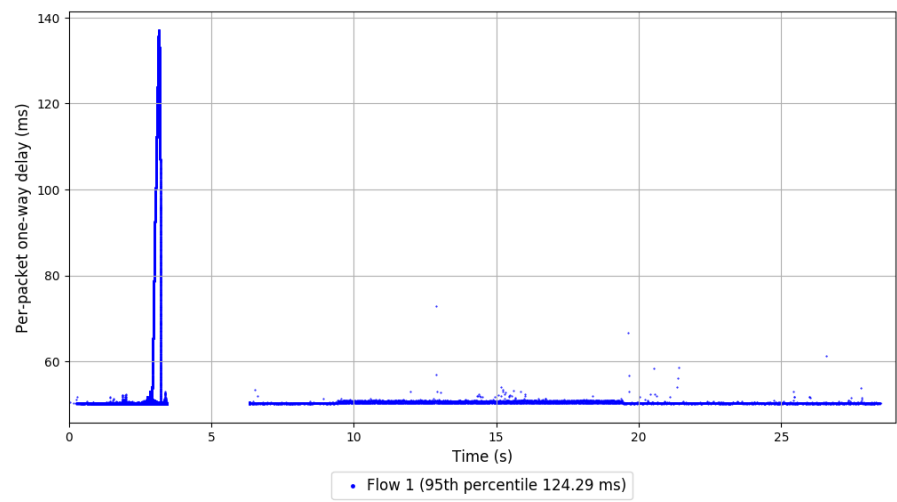
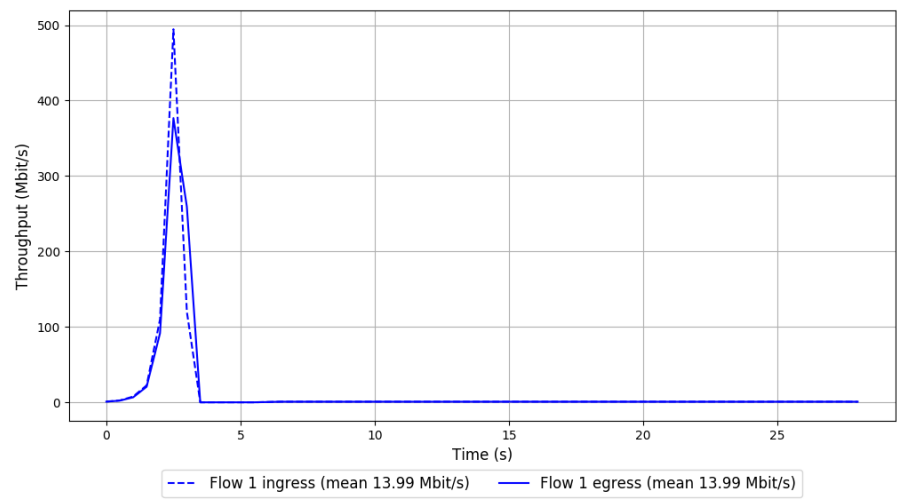
Average throughput: 13.99 Mbit/s

95th percentile per-packet one-way delay: 124.286 ms

Loss rate: 0.00%



Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-16 18:10:29

End at: 2018-01-16 18:10:59

# Below is generated by plot.py at 2018-01-16 22:18:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 104.098 ms

Loss rate: 0.00%

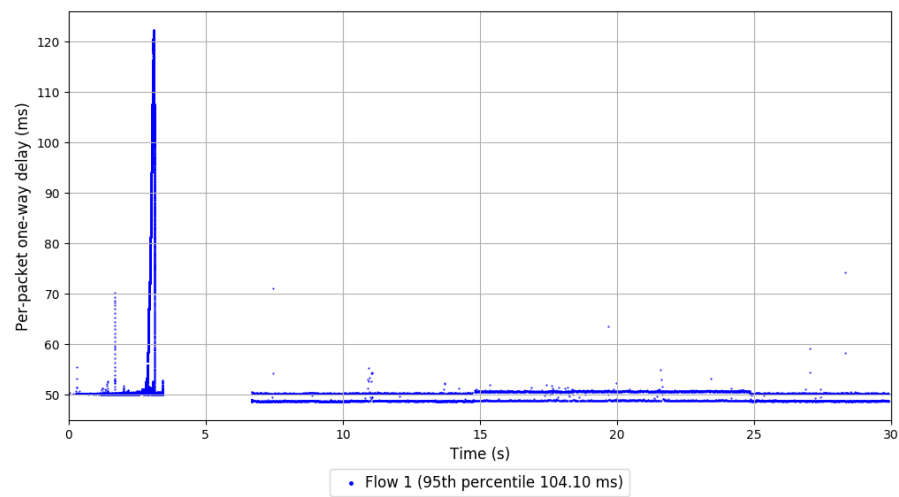
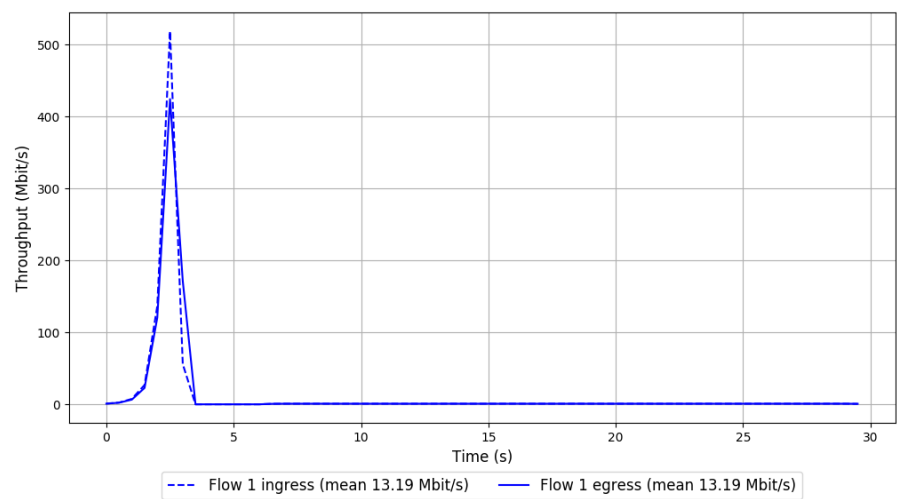
-- Flow 1:

Average throughput: 13.19 Mbit/s

95th percentile per-packet one-way delay: 104.098 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-16 18:24:35

End at: 2018-01-16 18:25:05

# Below is generated by plot.py at 2018-01-16 22:18:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 63.989 ms

Loss rate: 0.00%

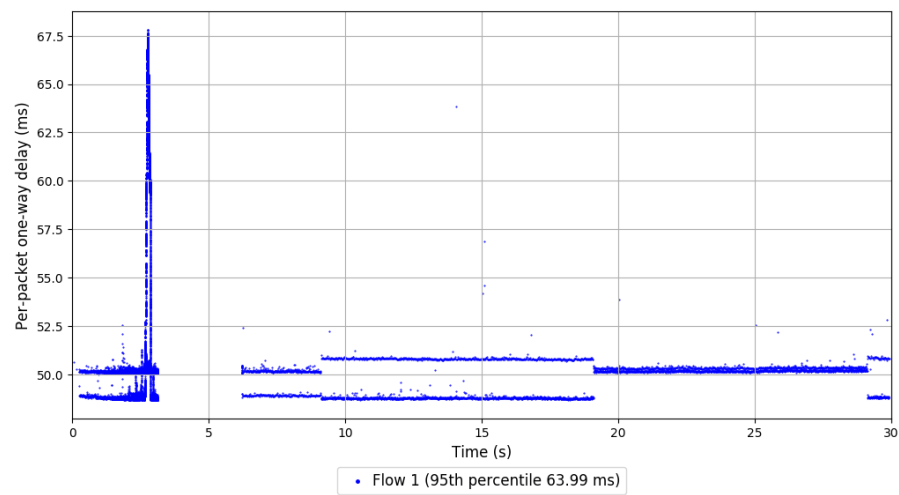
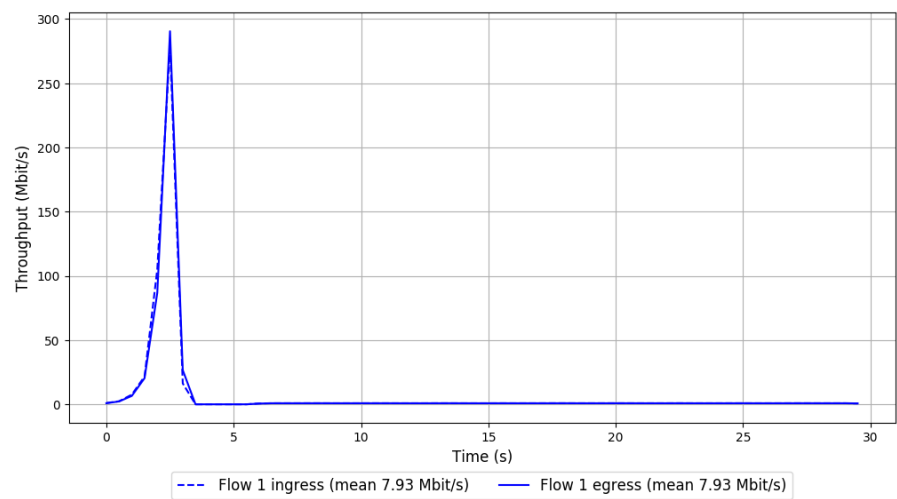
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 63.989 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-16 18:38:28

End at: 2018-01-16 18:38:58

# Below is generated by plot.py at 2018-01-16 22:18:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 62.398 ms

Loss rate: 0.00%

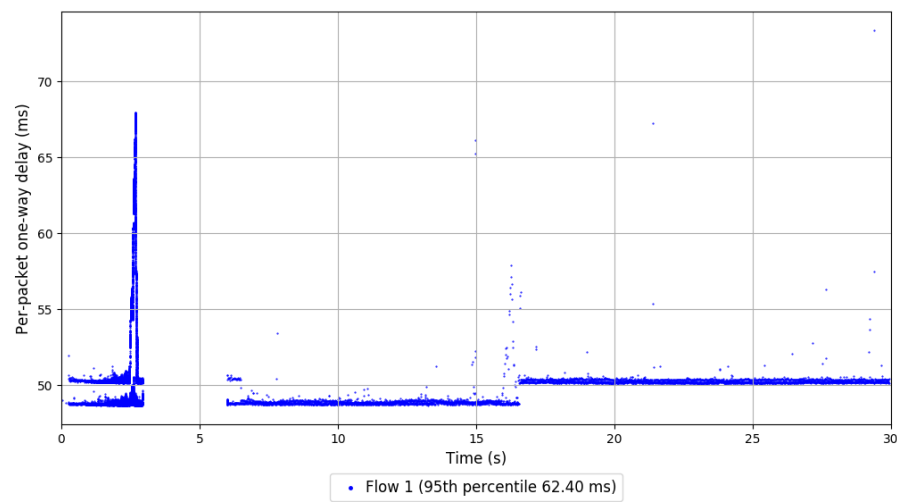
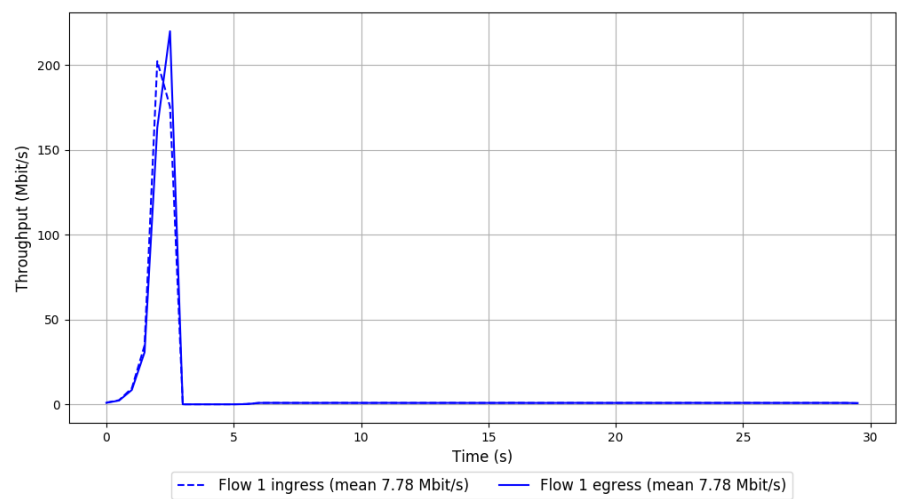
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 62.398 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-16 18:52:18

End at: 2018-01-16 18:52:48

# Below is generated by plot.py at 2018-01-16 22:18:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 197.27 Mbit/s

95th percentile per-packet one-way delay: 53.913 ms

Loss rate: 0.01%

-- Flow 1:

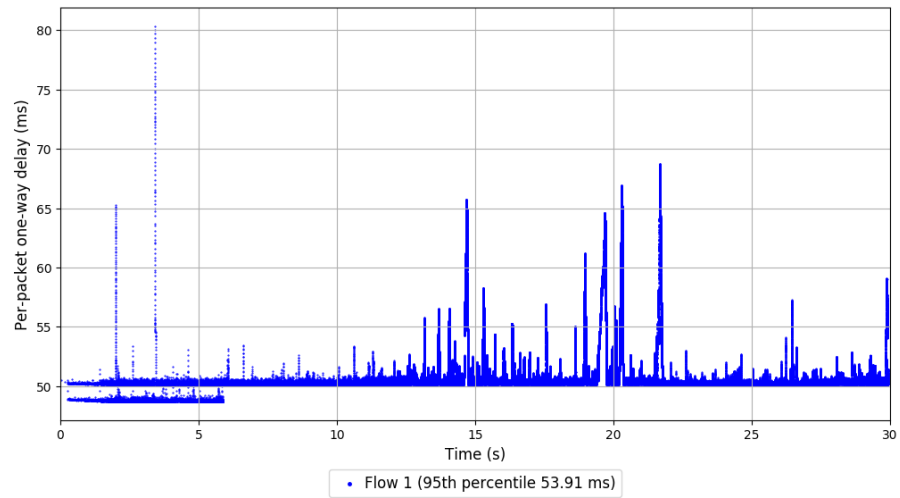
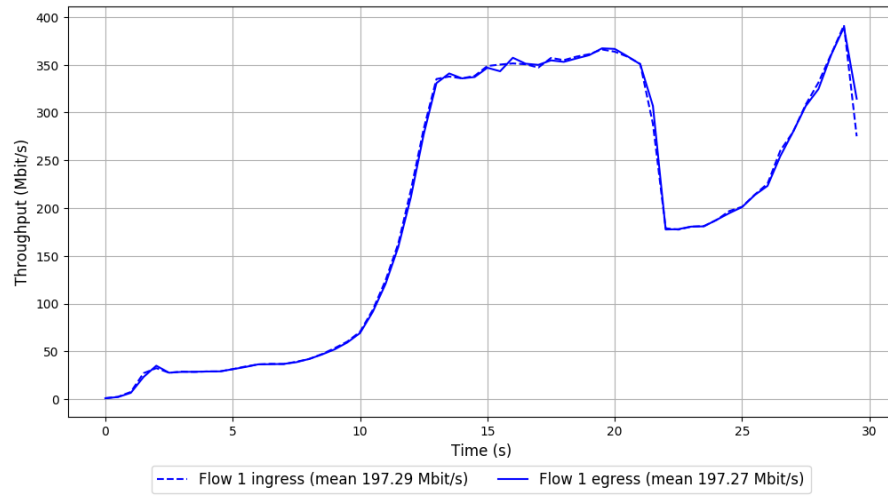
Average throughput: 197.27 Mbit/s

95th percentile per-packet one-way delay: 53.913 ms

Loss rate: 0.01%



### Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-16 19:06:34
End at: 2018-01-16 19:07:04

# Below is generated by plot.py at 2018-01-16 22:18:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.42 Mbit/s
95th percentile per-packet one-way delay: 50.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 143.42 Mbit/s
95th percentile per-packet one-way delay: 50.583 ms
Loss rate: 0.00%
```

Run 10: Report of Vivace-LTE — Data Link

