

## Pantheon Report

Generated at 2018-03-13 10:22:08 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

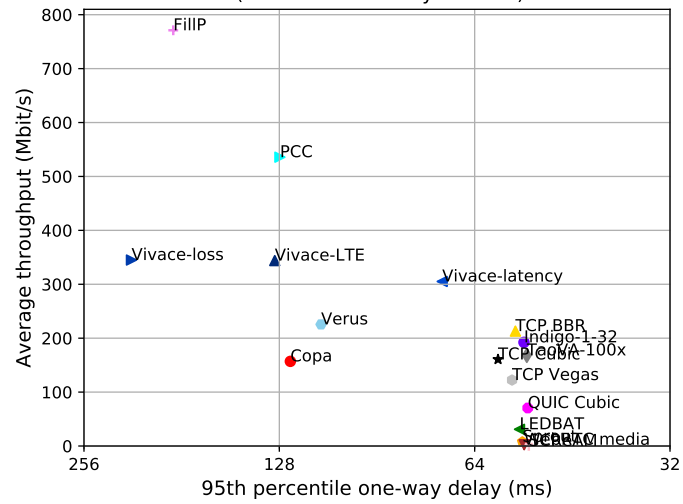
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

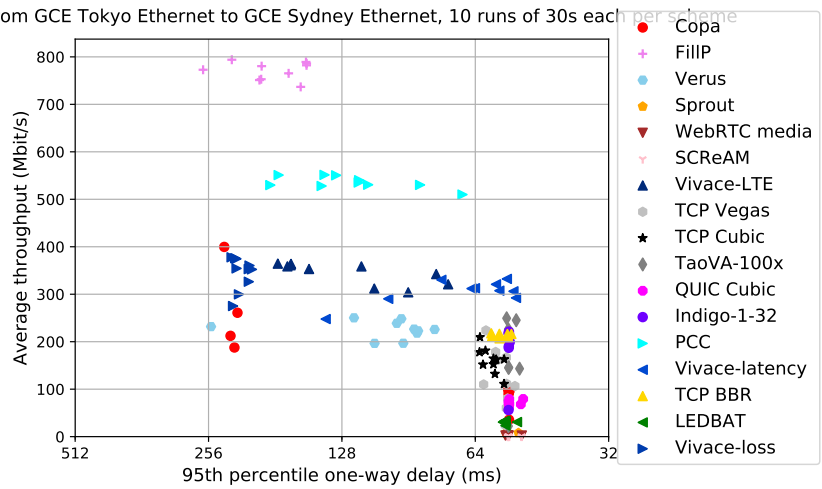
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	213.14	55.39	0.32
TCP Cubic	10	160.59	58.91	0.51
LEDBAT	10	31.00	54.59	0.69
PCC	10	535.71	127.72	1.06
QUIC Cubic	10	70.53	53.01	0.39
SCReAM	10	0.21	52.81	0.39
WebRTC media	10	2.31	53.69	0.34
Sprout	10	7.81	54.04	0.36
TaoVA-100x	7	168.09	53.19	0.52
TCP Vegas	10	122.33	56.05	0.28
Verus	10	225.57	110.39	1.05
Copa	10	157.01	123.09	8.61
FillP	10	771.09	186.50	11.55
Indigo-1-32	10	192.30	53.73	0.37
Vivace-latency	10	305.19	71.82	0.41
Vivace-loss	10	344.96	216.30	3.95
Vivace-LTE	10	343.95	130.09	0.68

Run 1: Statistics of TCP BBR

Start at: 2018-03-13 03:34:49

End at: 2018-03-13 03:35:19

# Below is generated by plot.py at 2018-03-13 08:35:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 216.28 Mbit/s

95th percentile per-packet one-way delay: 54.151 ms

Loss rate: 0.35%

-- Flow 1:

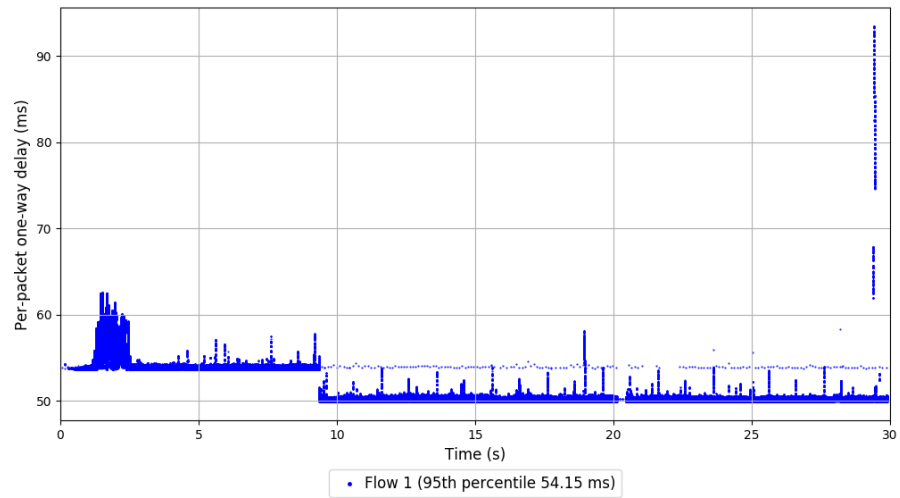
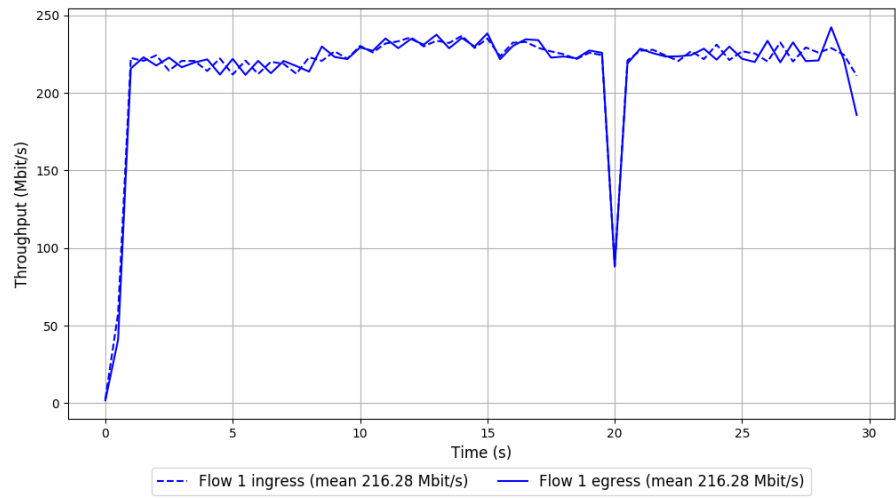
Average throughput: 216.28 Mbit/s

95th percentile per-packet one-way delay: 54.151 ms

Loss rate: 0.35%



# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

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

# Below is generated by plot.py at 2018-03-13 08:35:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.70 Mbit/s

95th percentile per-packet one-way delay: 54.075 ms

Loss rate: 0.35%

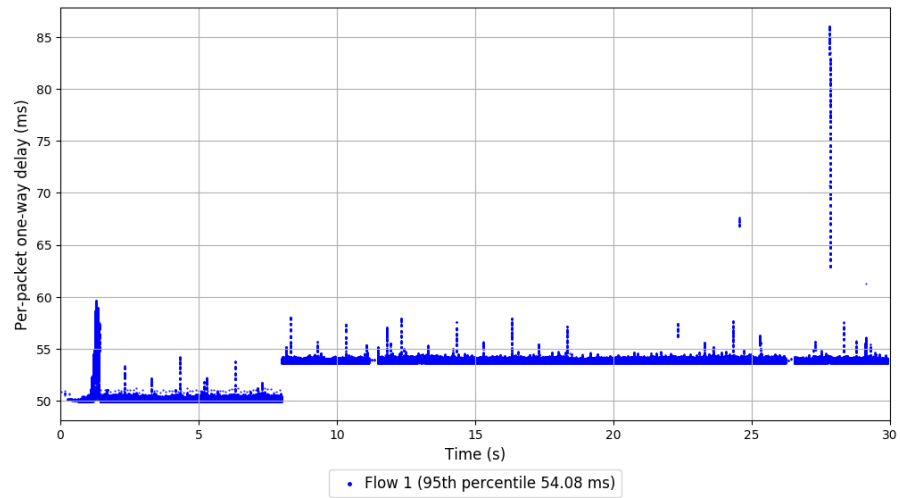
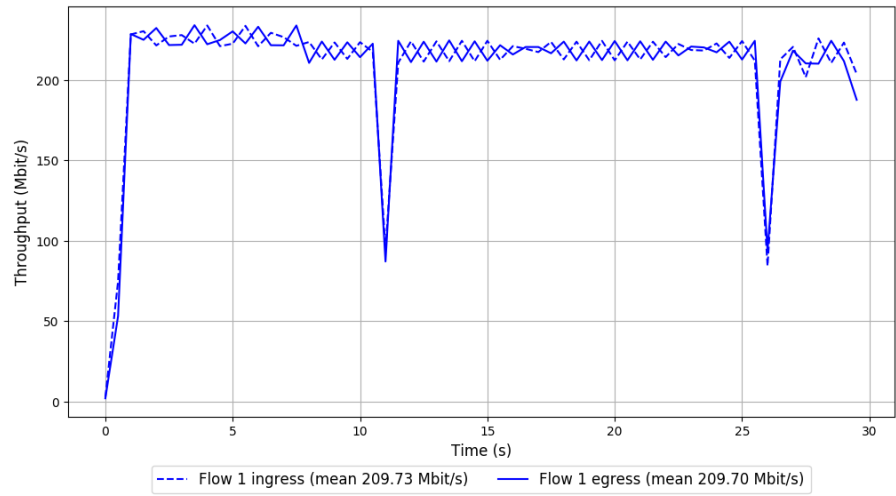
-- Flow 1:

Average throughput: 209.70 Mbit/s

95th percentile per-packet one-way delay: 54.075 ms

Loss rate: 0.35%

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



Run 3: Statistics of TCP BBR

Start at: 2018-03-13 04:03:32

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

# Below is generated by plot.py at 2018-03-13 08:35:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 54.103 ms

Loss rate: 0.37%

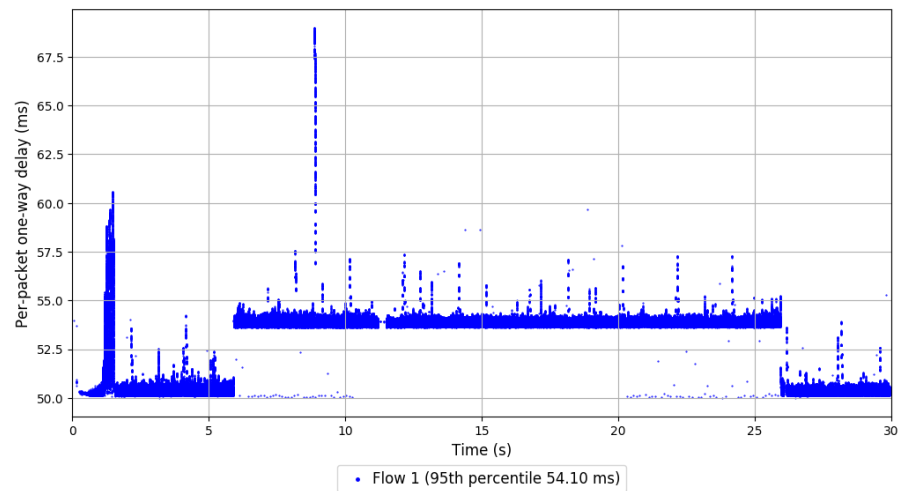
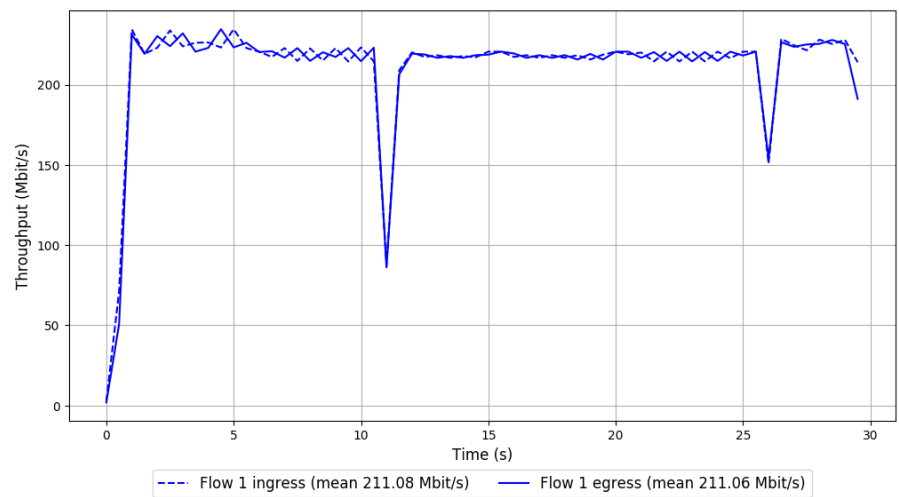
-- Flow 1:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 54.103 ms

Loss rate: 0.37%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-13 04:17:36

End at: 2018-03-13 04:18:06

# Below is generated by plot.py at 2018-03-13 08:35:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.33 Mbit/s

95th percentile per-packet one-way delay: 54.080 ms

Loss rate: 0.35%

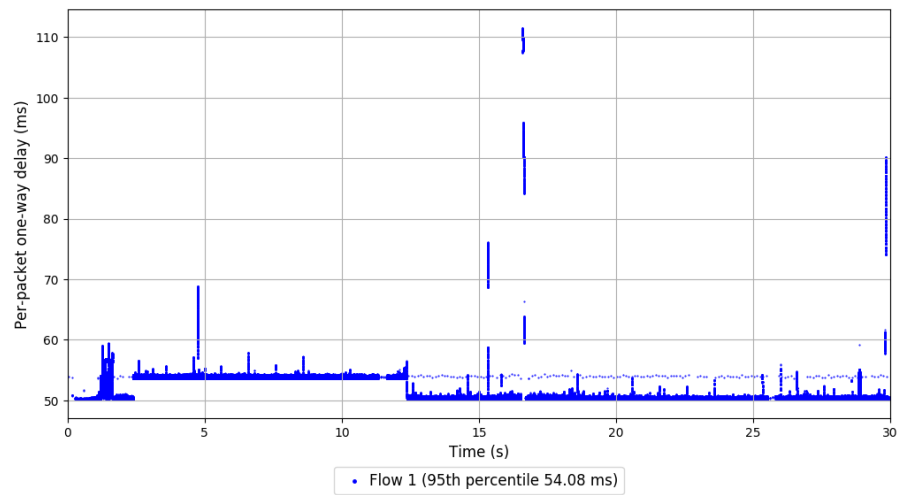
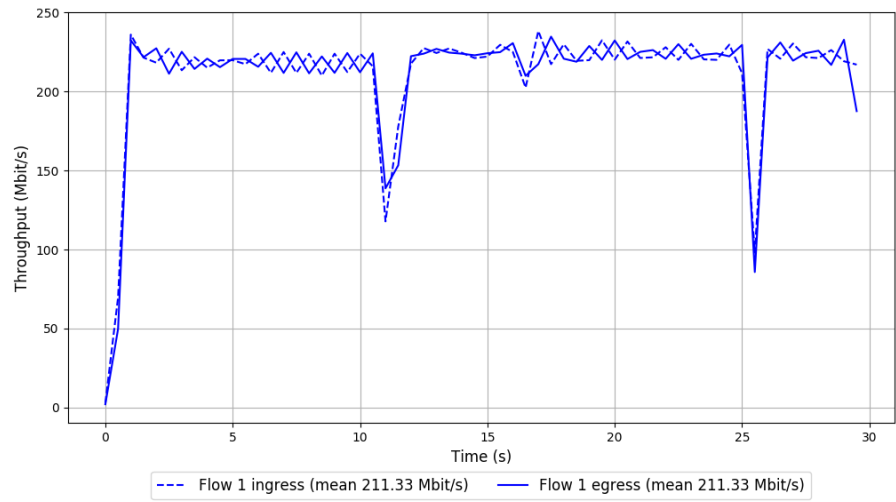
-- Flow 1:

Average throughput: 211.33 Mbit/s

95th percentile per-packet one-way delay: 54.080 ms

Loss rate: 0.35%

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



Run 5: Statistics of TCP BBR

Start at: 2018-03-13 04:32:03

End at: 2018-03-13 04:32:33

# Below is generated by plot.py at 2018-03-13 08:35:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 213.32 Mbit/s

95th percentile per-packet one-way delay: 54.042 ms

Loss rate: 0.35%

-- Flow 1:

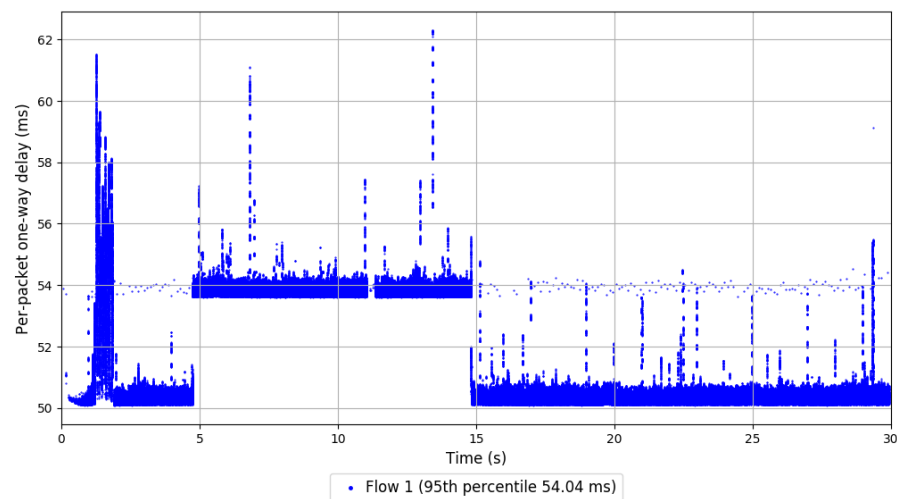
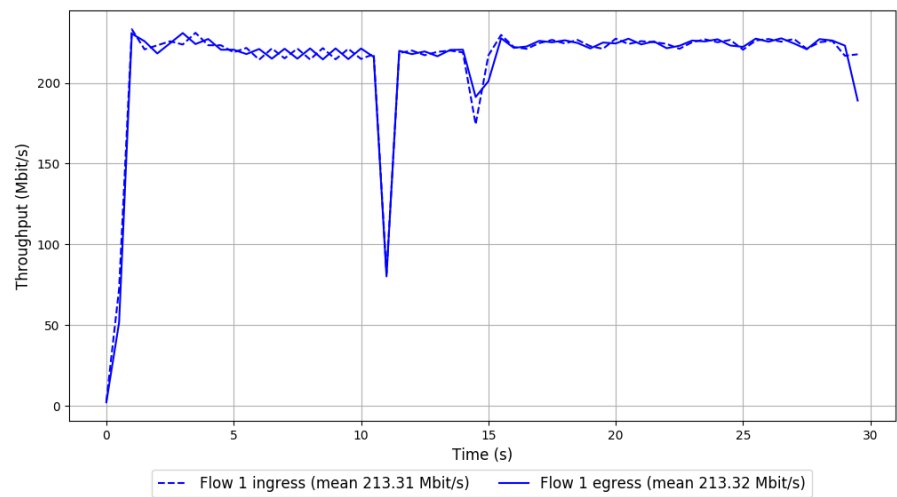
Average throughput: 213.32 Mbit/s

95th percentile per-packet one-way delay: 54.042 ms

Loss rate: 0.35%



Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-13 04:46:33

End at: 2018-03-13 04:47:03

# Below is generated by plot.py at 2018-03-13 08:35:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.69 Mbit/s

95th percentile per-packet one-way delay: 58.888 ms

Loss rate: 0.34%

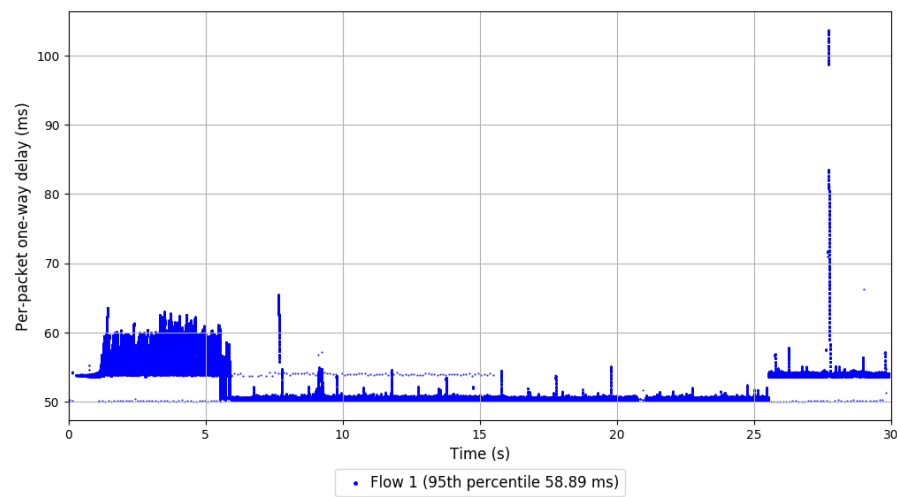
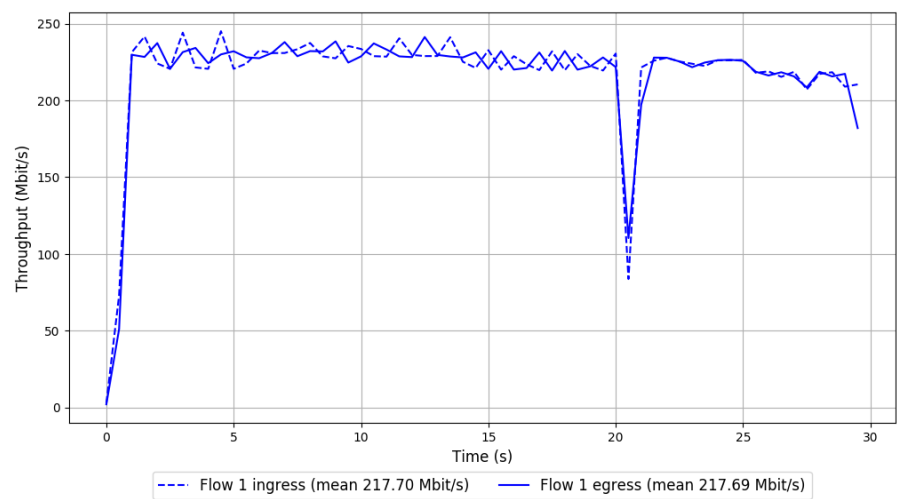
-- Flow 1:

Average throughput: 217.69 Mbit/s

95th percentile per-packet one-way delay: 58.888 ms

Loss rate: 0.34%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-13 05:00:49

End at: 2018-03-13 05:01:19

# Below is generated by plot.py at 2018-03-13 08:35:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 216.39 Mbit/s

95th percentile per-packet one-way delay: 53.046 ms

Loss rate: 0.37%

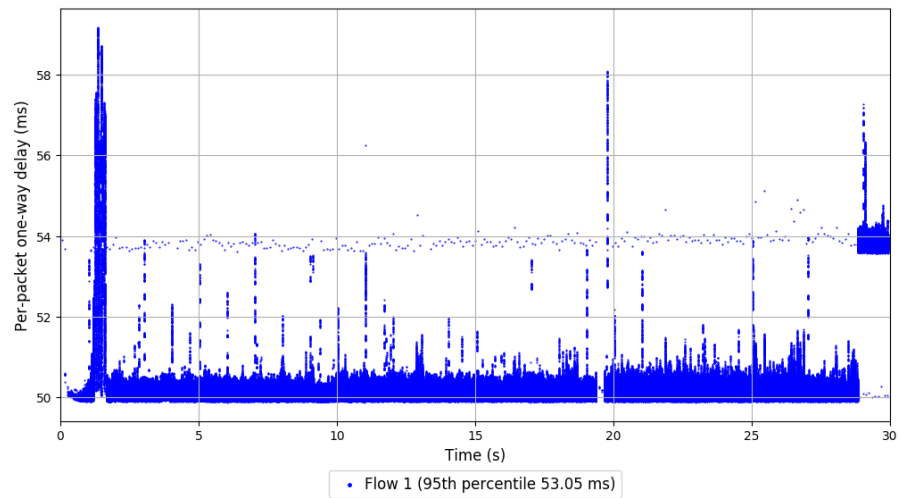
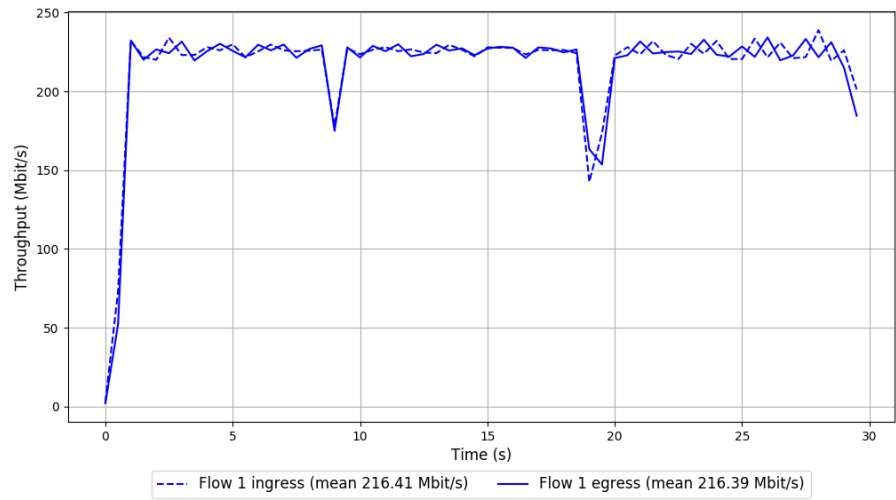
-- Flow 1:

Average throughput: 216.39 Mbit/s

95th percentile per-packet one-way delay: 53.046 ms

Loss rate: 0.37%

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



Run 8: Statistics of TCP BBR

Start at: 2018-03-13 05:15:23

End at: 2018-03-13 05:15:53

# Below is generated by plot.py at 2018-03-13 08:35:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.07 Mbit/s

95th percentile per-packet one-way delay: 56.419 ms

Loss rate: 0.40%

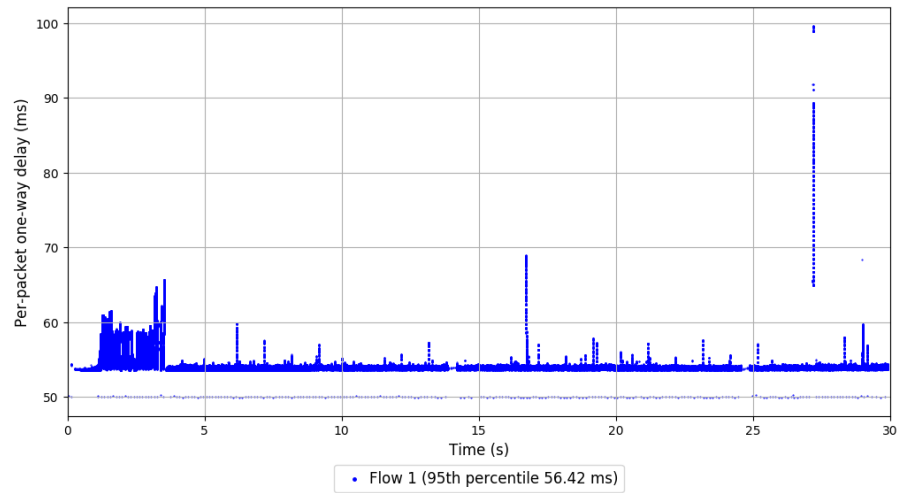
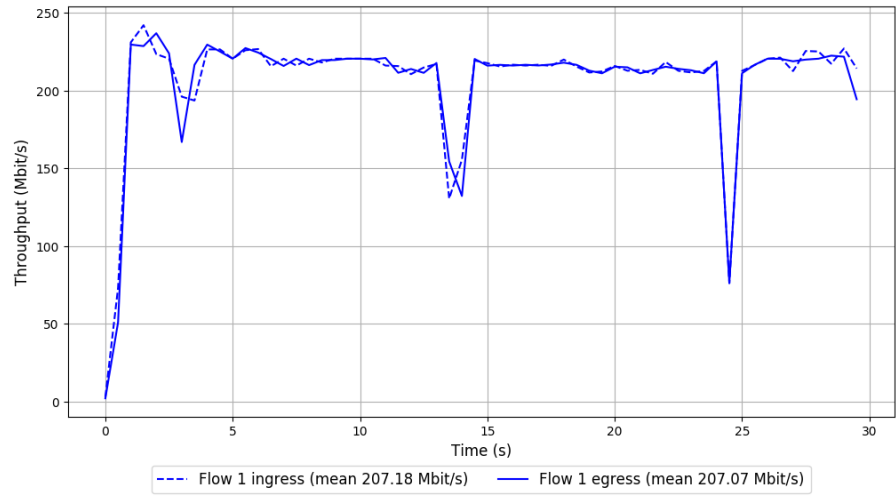
-- Flow 1:

Average throughput: 207.07 Mbit/s

95th percentile per-packet one-way delay: 56.419 ms

Loss rate: 0.40%

# Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-13 05:29:49

End at: 2018-03-13 05:30:19

# Below is generated by plot.py at 2018-03-13 08:40:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 216.64 Mbit/s

95th percentile per-packet one-way delay: 56.457 ms

Loss rate: 0.00%

-- Flow 1:

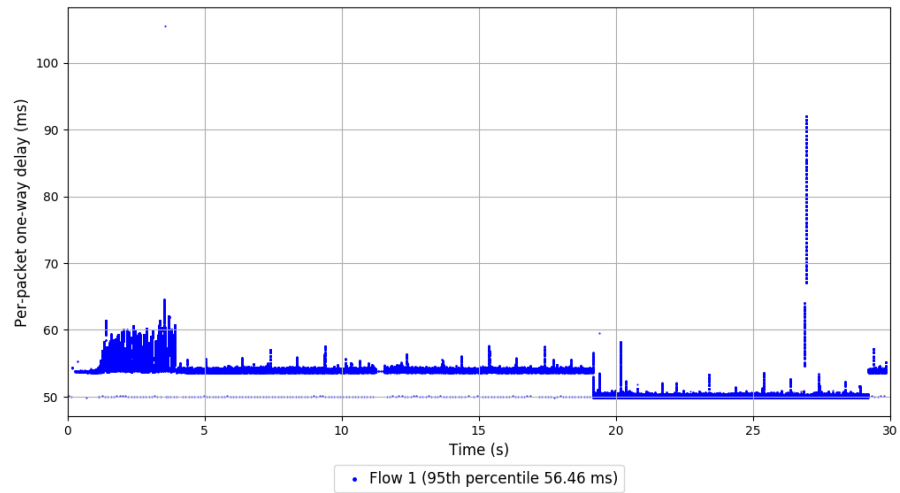
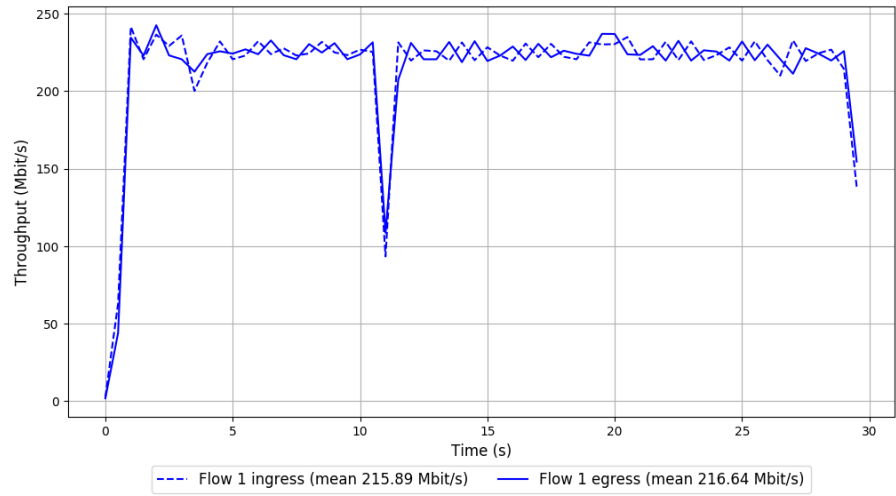
Average throughput: 216.64 Mbit/s

95th percentile per-packet one-way delay: 56.457 ms

Loss rate: 0.00%



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



Run 10: Statistics of TCP BBR

Start at: 2018-03-13 05:44:06

End at: 2018-03-13 05:44:36

# Below is generated by plot.py at 2018-03-13 08:40:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.94 Mbit/s

95th percentile per-packet one-way delay: 58.614 ms

Loss rate: 0.34%

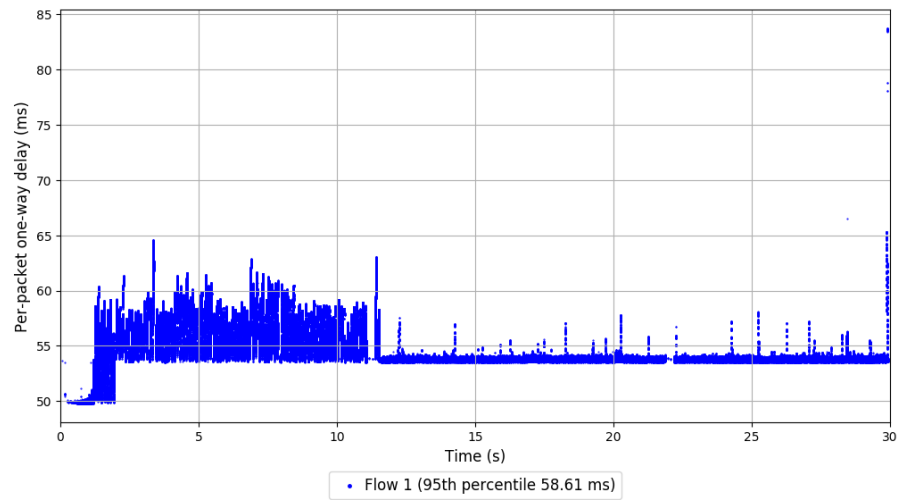
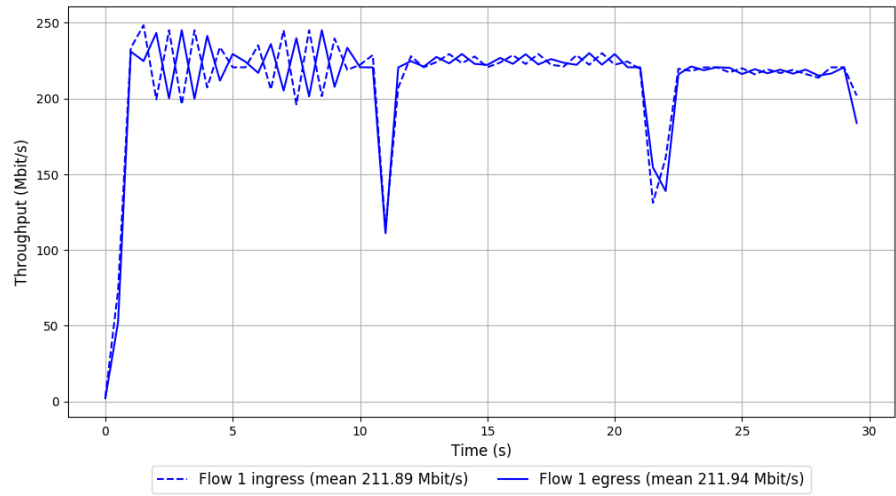
-- Flow 1:

Average throughput: 211.94 Mbit/s

95th percentile per-packet one-way delay: 58.614 ms

Loss rate: 0.34%

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



Run 1: Statistics of TCP Cubic

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

End at: 2018-03-13 03:36:06

# Below is generated by plot.py at 2018-03-13 08:40:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.54 Mbit/s

95th percentile per-packet one-way delay: 62.464 ms

Loss rate: 0.77%

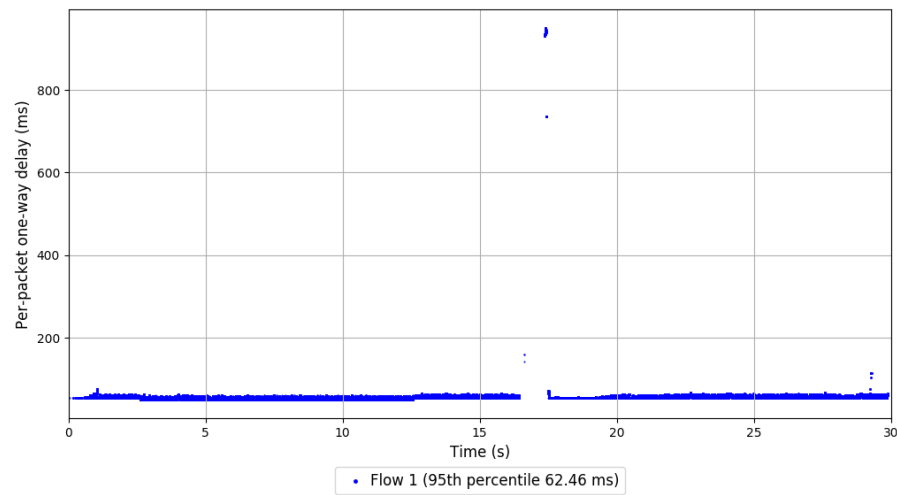
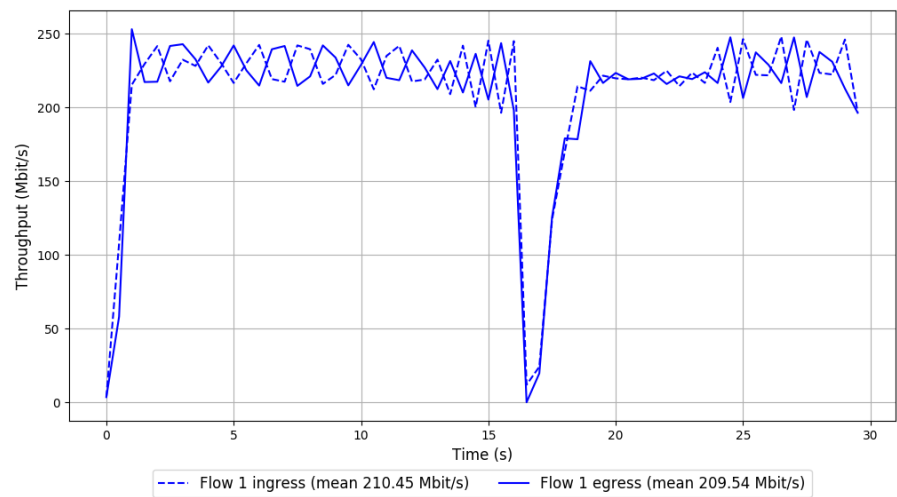
-- Flow 1:

Average throughput: 209.54 Mbit/s

95th percentile per-packet one-way delay: 62.464 ms

Loss rate: 0.77%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-13 03:49:57

End at: 2018-03-13 03:50:27

# Below is generated by plot.py at 2018-03-13 08:40:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 110.99 Mbit/s

95th percentile per-packet one-way delay: 55.114 ms

Loss rate: 0.49%

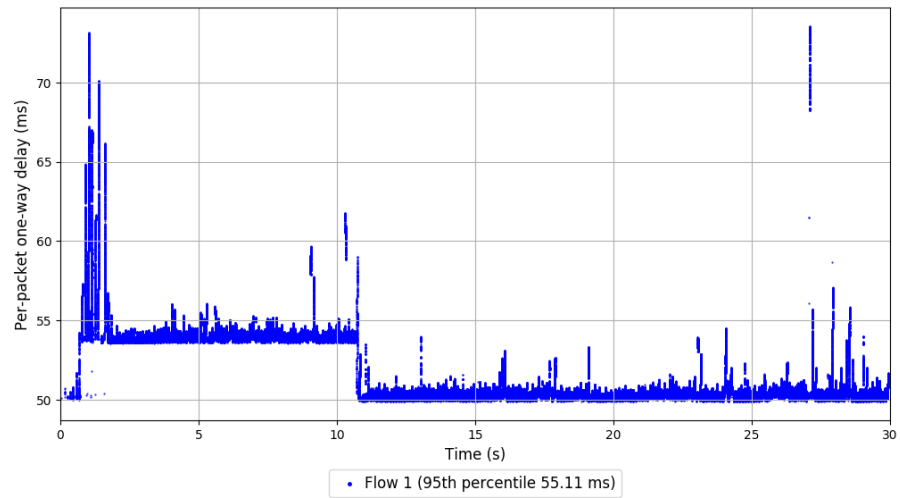
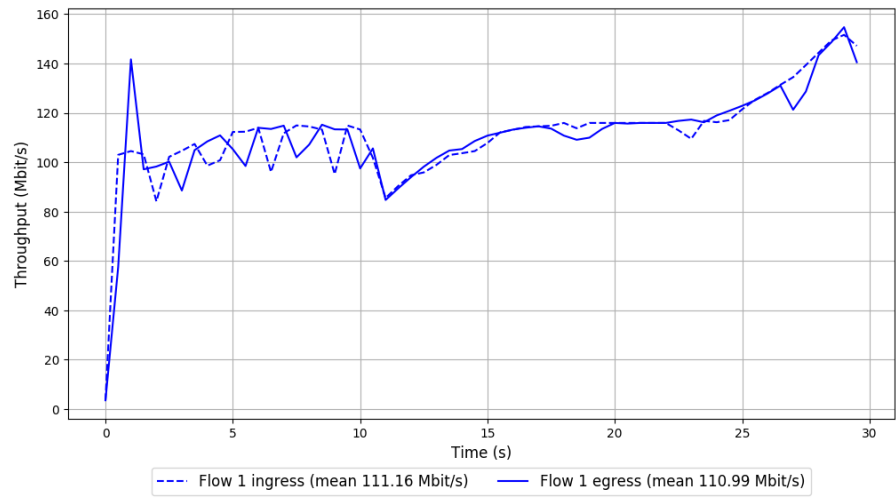
-- Flow 1:

Average throughput: 110.99 Mbit/s

95th percentile per-packet one-way delay: 55.114 ms

Loss rate: 0.49%

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



Run 3: Statistics of TCP Cubic

Start at: 2018-03-13 04:04:19

End at: 2018-03-13 04:04:49

# Below is generated by plot.py at 2018-03-13 08:40:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 162.43 Mbit/s

95th percentile per-packet one-way delay: 57.408 ms

Loss rate: 0.51%

-- Flow 1:

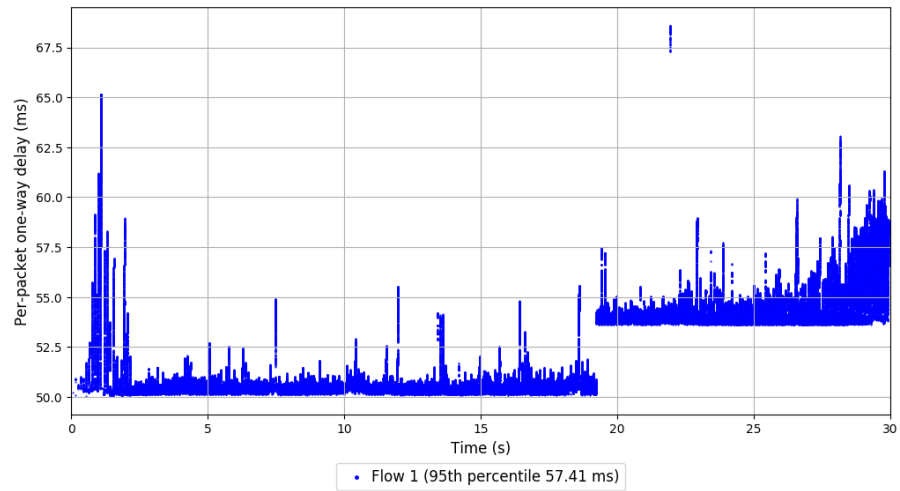
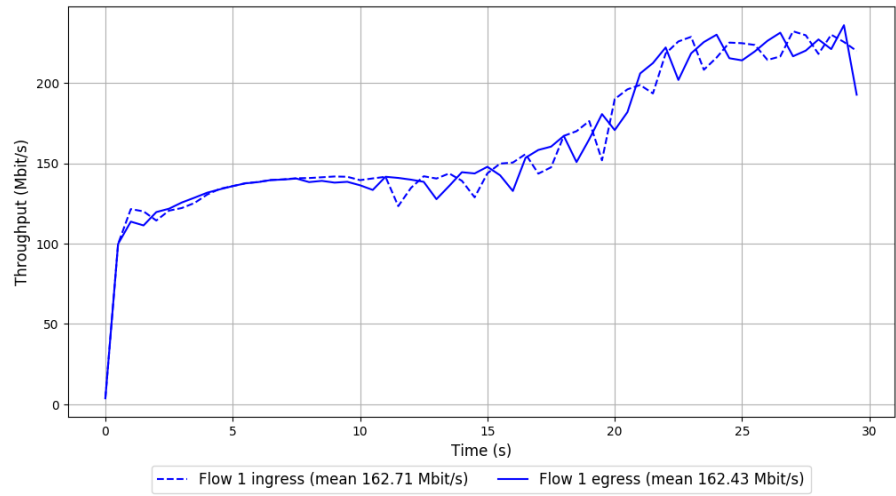
Average throughput: 162.43 Mbit/s

95th percentile per-packet one-way delay: 57.408 ms

Loss rate: 0.51%



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



Run 4: Statistics of TCP Cubic

Start at: 2018-03-13 04:18:22

End at: 2018-03-13 04:18:52

# Below is generated by plot.py at 2018-03-13 08:40:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 162.87 Mbit/s

95th percentile per-packet one-way delay: 55.068 ms

Loss rate: 0.50%

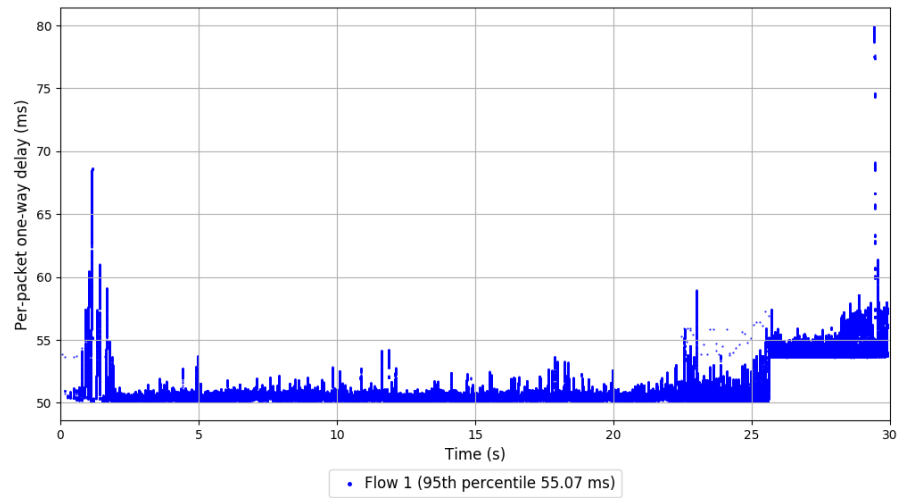
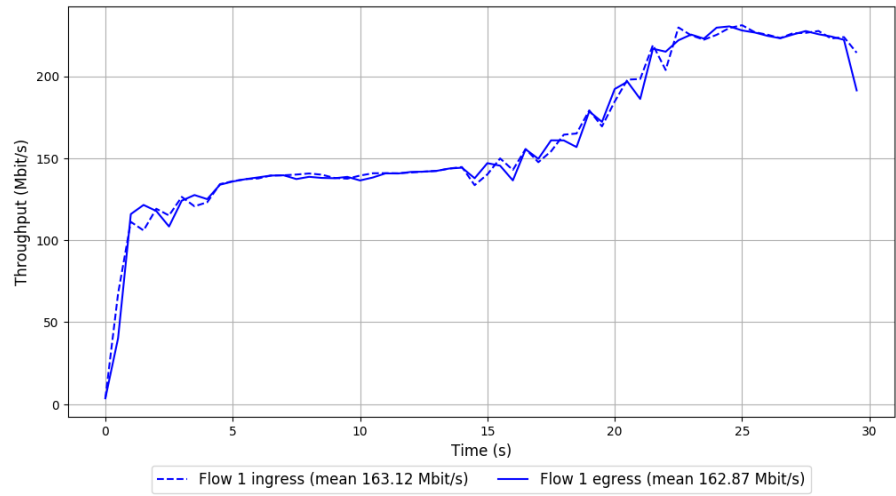
-- Flow 1:

Average throughput: 162.87 Mbit/s

95th percentile per-packet one-way delay: 55.068 ms

Loss rate: 0.50%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-03-13 04:32:50

End at: 2018-03-13 04:33:20

# Below is generated by plot.py at 2018-03-13 08:40:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 132.24 Mbit/s

95th percentile per-packet one-way delay: 57.785 ms

Loss rate: 0.79%

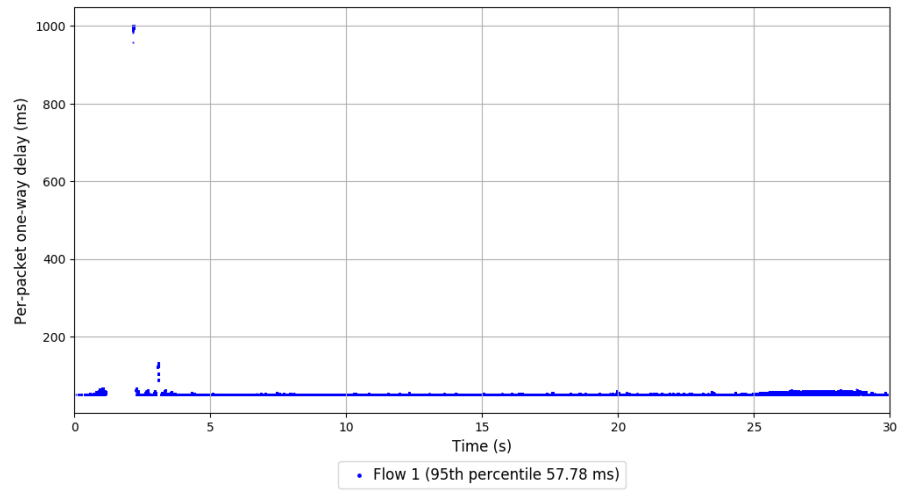
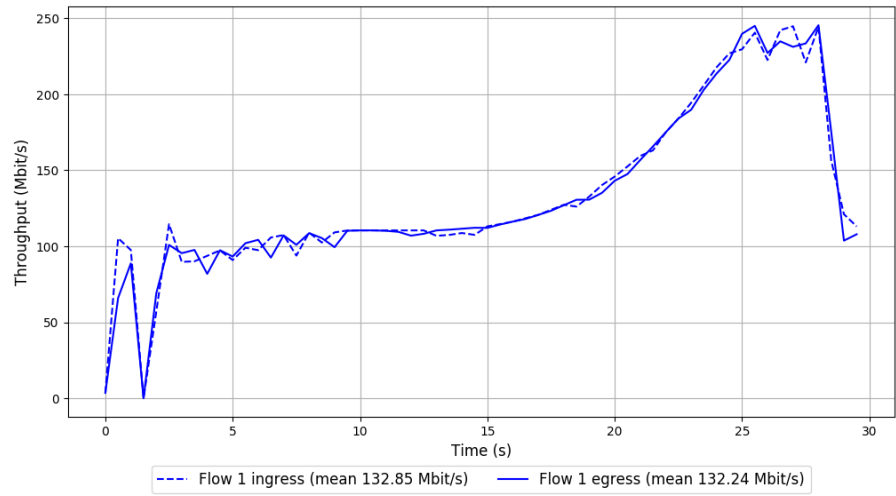
-- Flow 1:

Average throughput: 132.24 Mbit/s

95th percentile per-packet one-way delay: 57.785 ms

Loss rate: 0.79%

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



Run 6: Statistics of TCP Cubic

Start at: 2018-03-13 04:47:20

End at: 2018-03-13 04:47:50

# Below is generated by plot.py at 2018-03-13 08:40:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 181.19 Mbit/s

95th percentile per-packet one-way delay: 60.707 ms

Loss rate: 0.30%

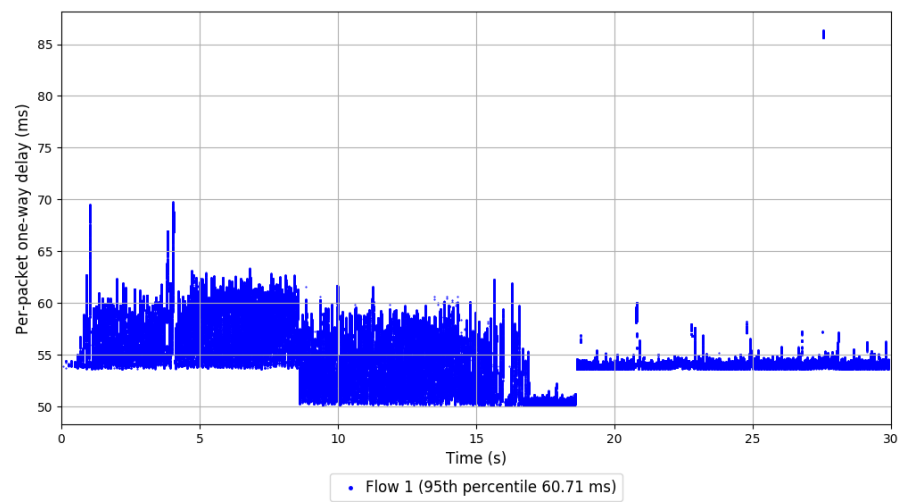
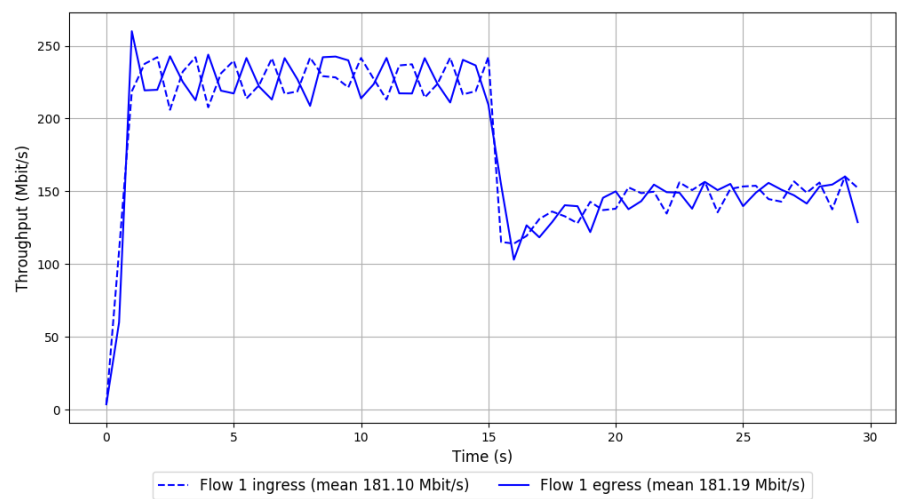
-- Flow 1:

Average throughput: 181.19 Mbit/s

95th percentile per-packet one-way delay: 60.707 ms

Loss rate: 0.30%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-13 05:01:36

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

# Below is generated by plot.py at 2018-03-13 08:41:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 151.76 Mbit/s

95th percentile per-packet one-way delay: 61.477 ms

Loss rate: 0.52%

-- Flow 1:

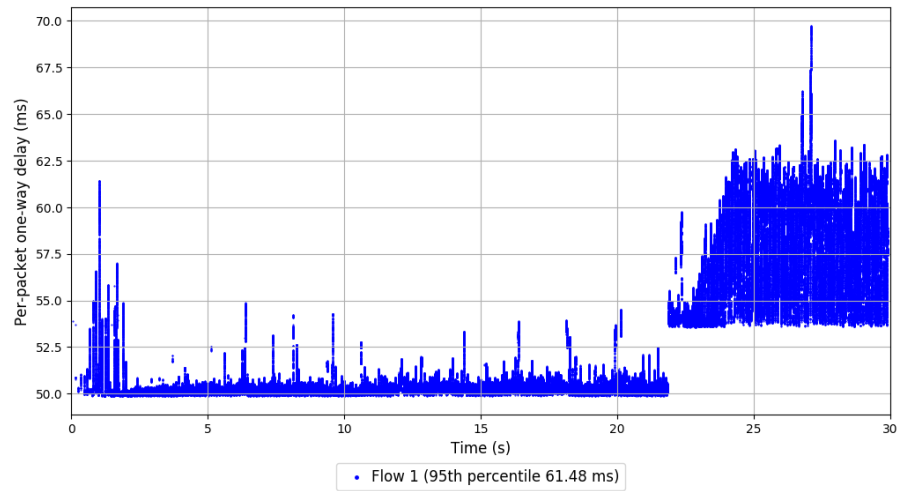
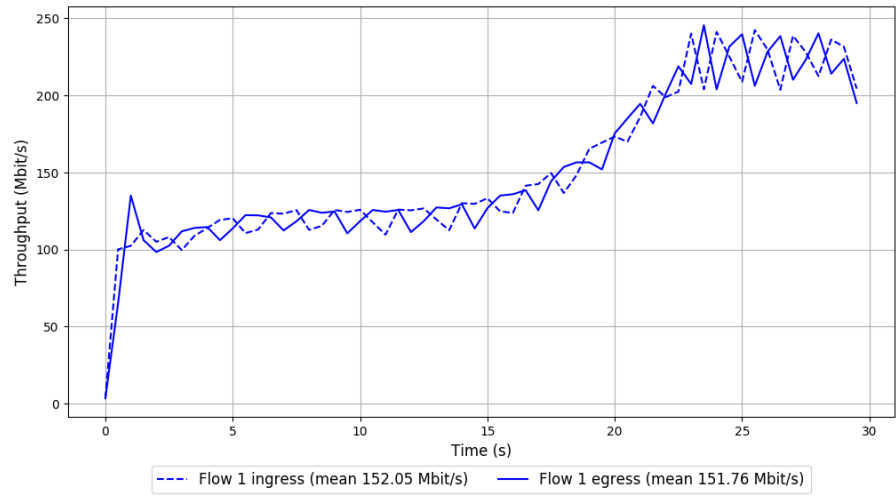
Average throughput: 151.76 Mbit/s

95th percentile per-packet one-way delay: 61.477 ms

Loss rate: 0.52%



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



Run 8: Statistics of TCP Cubic

Start at: 2018-03-13 05:16:10

End at: 2018-03-13 05:16:40

# Below is generated by plot.py at 2018-03-13 08:42:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 177.93 Mbit/s

95th percentile per-packet one-way delay: 62.614 ms

Loss rate: 0.30%

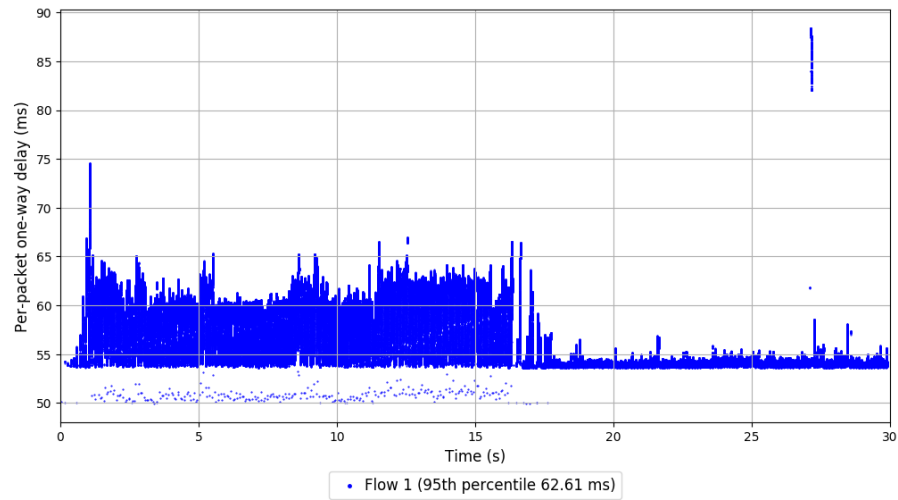
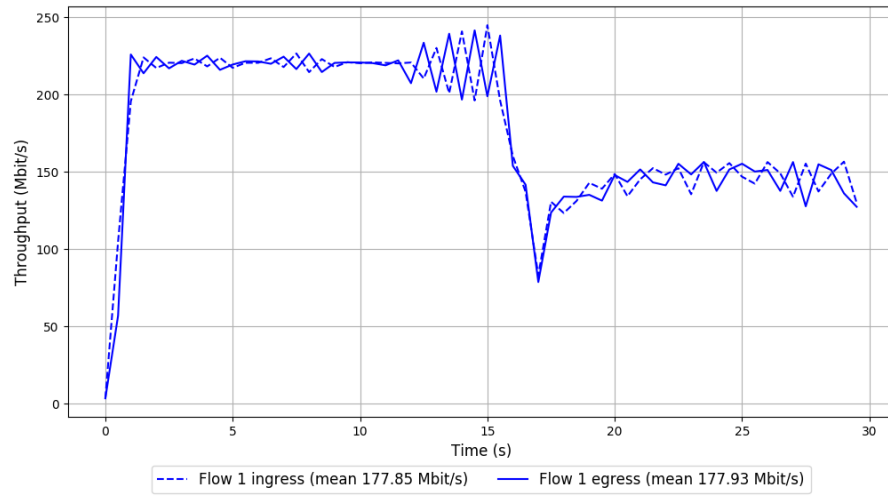
-- Flow 1:

Average throughput: 177.93 Mbit/s

95th percentile per-packet one-way delay: 62.614 ms

Loss rate: 0.30%

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



Run 9: Statistics of TCP Cubic

Start at: 2018-03-13 05:30:36

End at: 2018-03-13 05:31:06

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 164.36 Mbit/s

95th percentile per-packet one-way delay: 58.231 ms

Loss rate: 0.54%

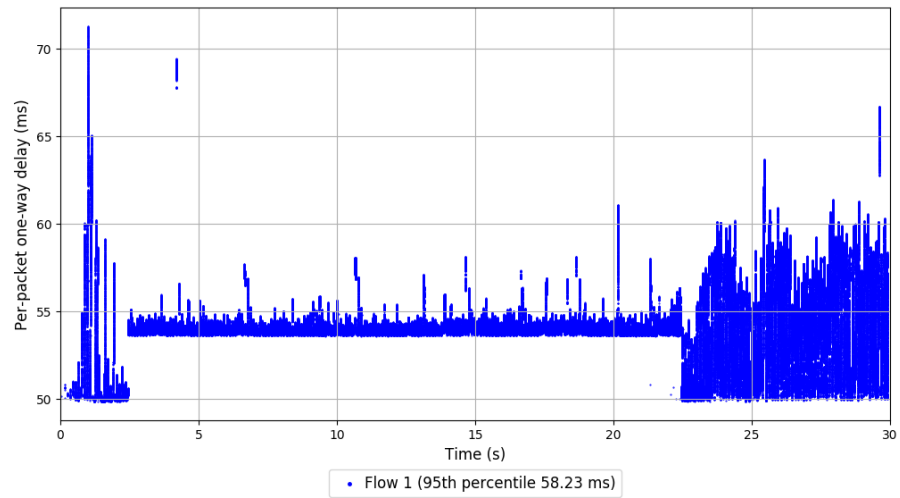
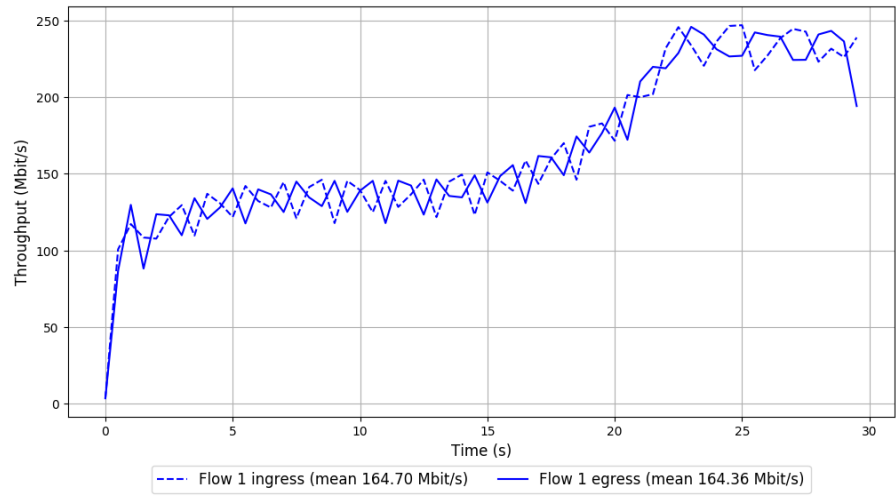
-- Flow 1:

Average throughput: 164.36 Mbit/s

95th percentile per-packet one-way delay: 58.231 ms

Loss rate: 0.54%

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



Run 10: Statistics of TCP Cubic

Start at: 2018-03-13 05:44:53

End at: 2018-03-13 05:45:23

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.59 Mbit/s

95th percentile per-packet one-way delay: 58.234 ms

Loss rate: 0.41%

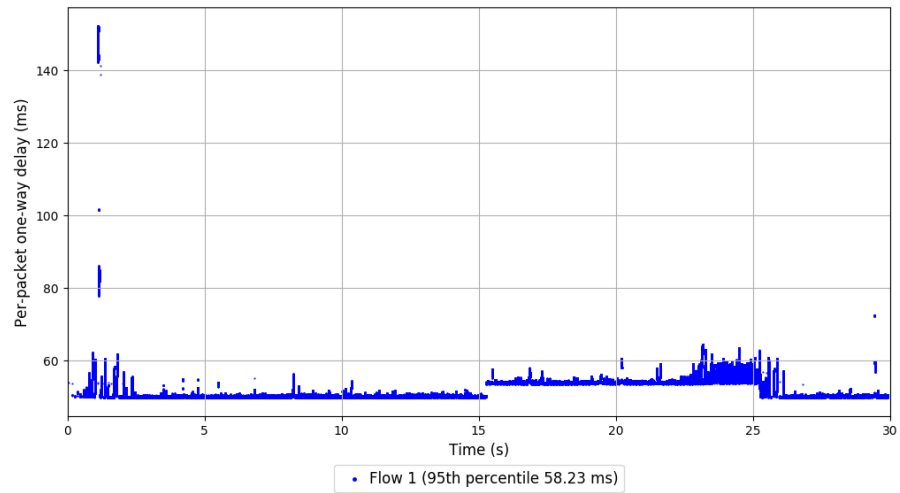
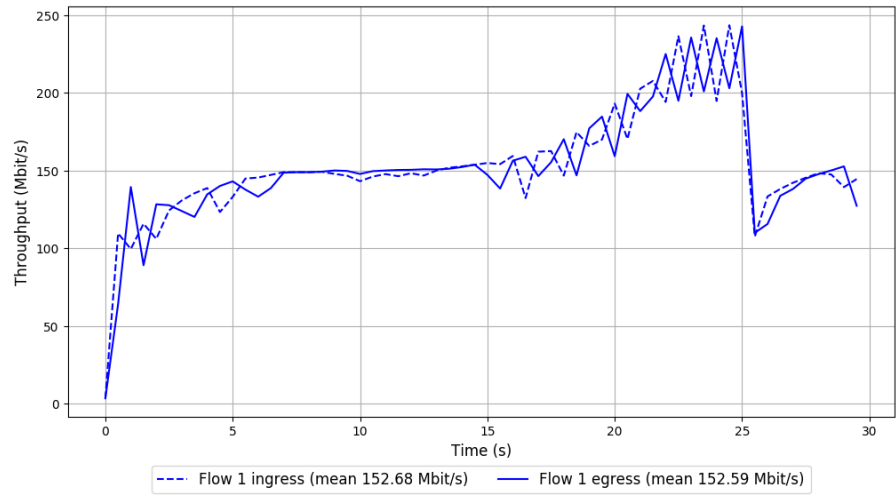
-- Flow 1:

Average throughput: 152.59 Mbit/s

95th percentile per-packet one-way delay: 58.234 ms

Loss rate: 0.41%

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



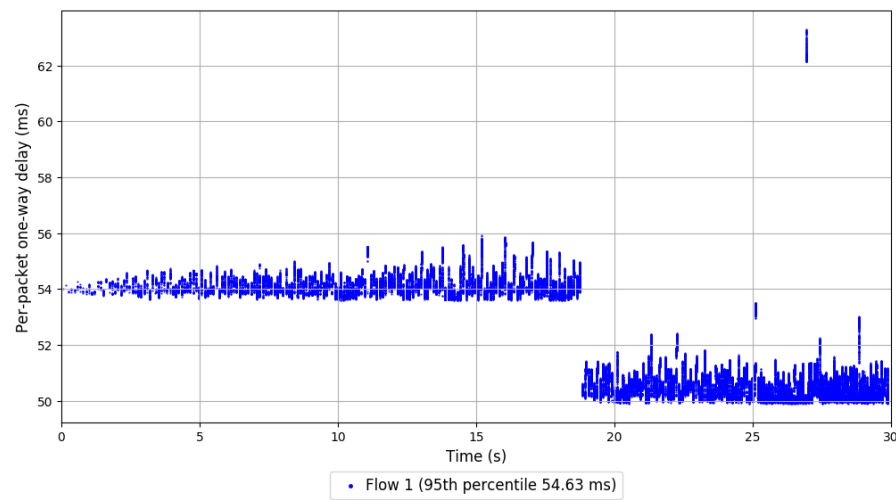
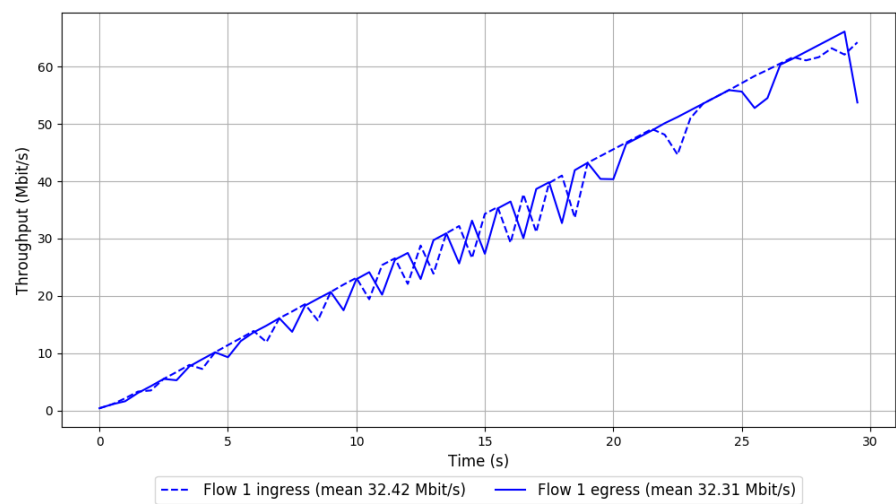
```
Run 1: Statistics of LEDBAT

Start at: 2018-03-13 03:33:29
End at: 2018-03-13 03:33:59

# Below is generated by plot.py at 2018-03-13 08:42:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 54.628 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 32.31 Mbit/s
95th percentile per-packet one-way delay: 54.628 ms
Loss rate: 0.70%
```



Run 1: Report of LEDBAT — Data Link

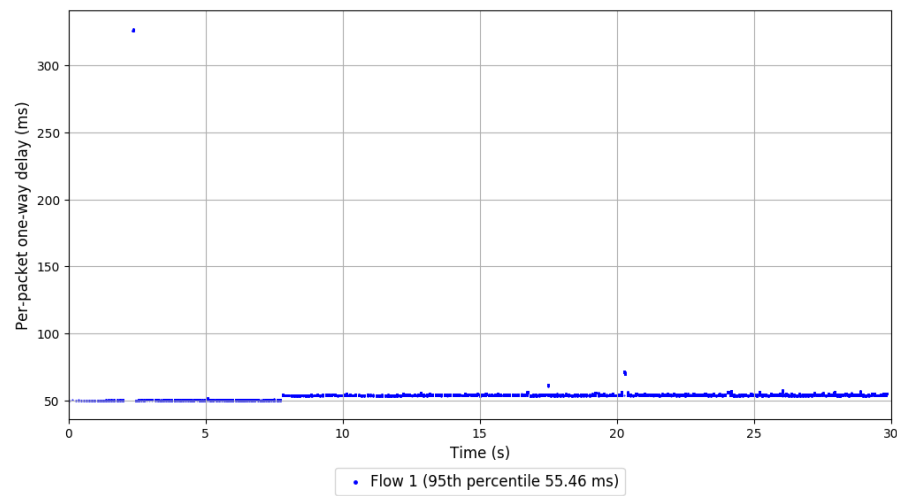
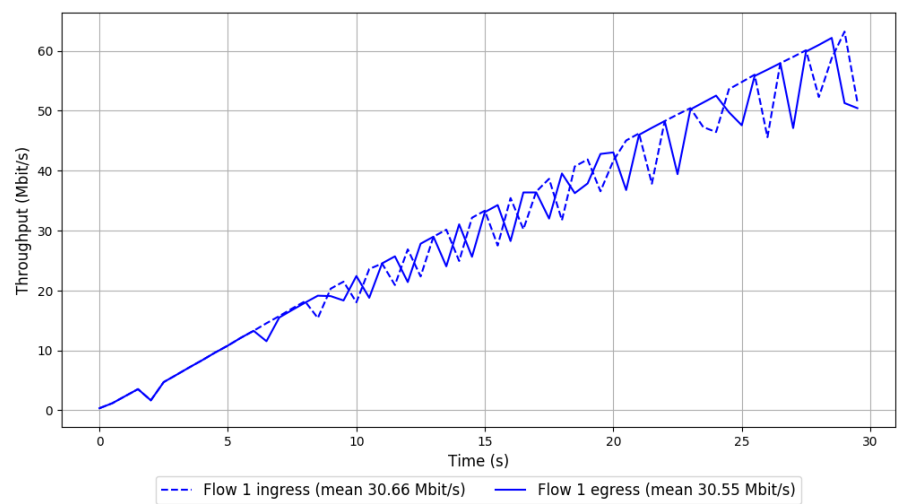


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-13 03:47:50
End at: 2018-03-13 03:48:20

# Below is generated by plot.py at 2018-03-13 08:42:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 55.458 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 55.458 ms
Loss rate: 0.71%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-13 04:02:12

End at: 2018-03-13 04:02:42

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 54.939 ms

Loss rate: 0.69%

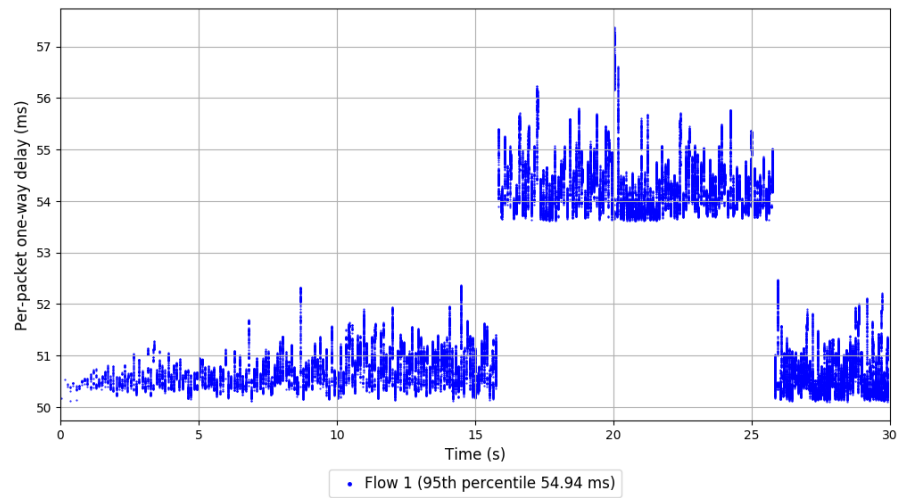
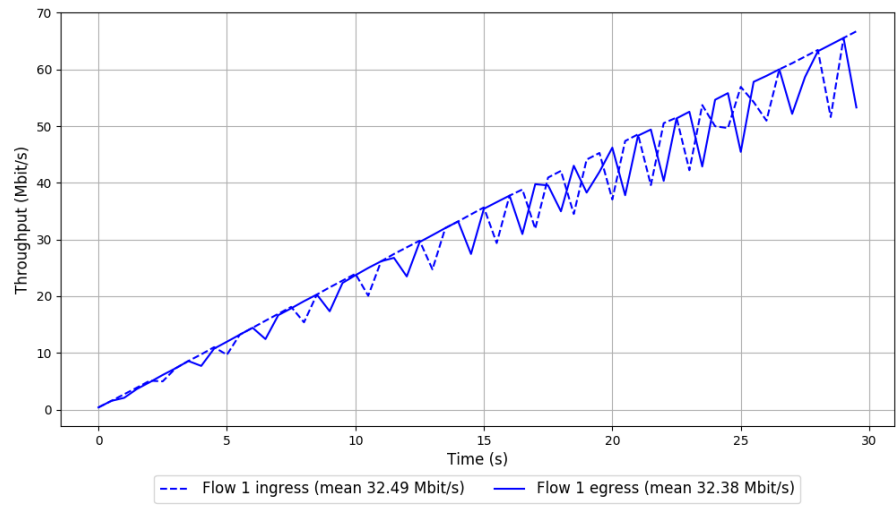
-- Flow 1:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 54.939 ms

Loss rate: 0.69%

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



Run 4: Statistics of LEDBAT

Start at: 2018-03-13 04:16:16

End at: 2018-03-13 04:16:46

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 54.818 ms

Loss rate: 0.70%

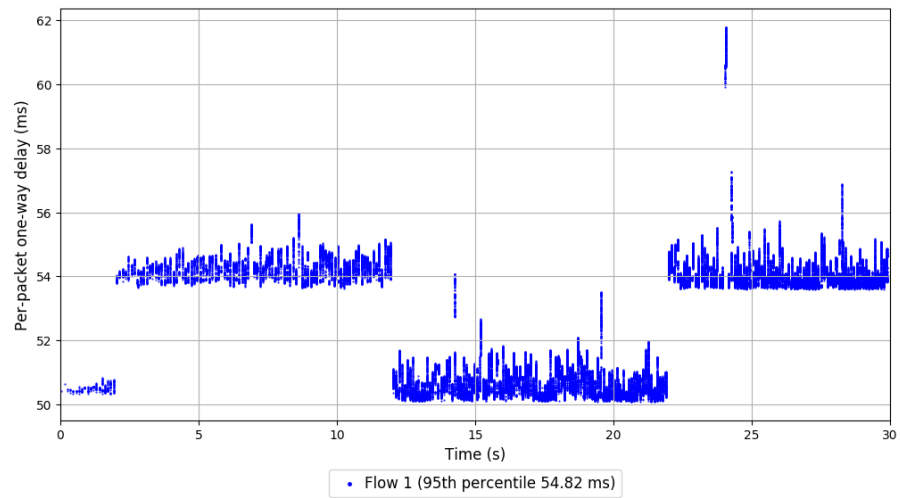
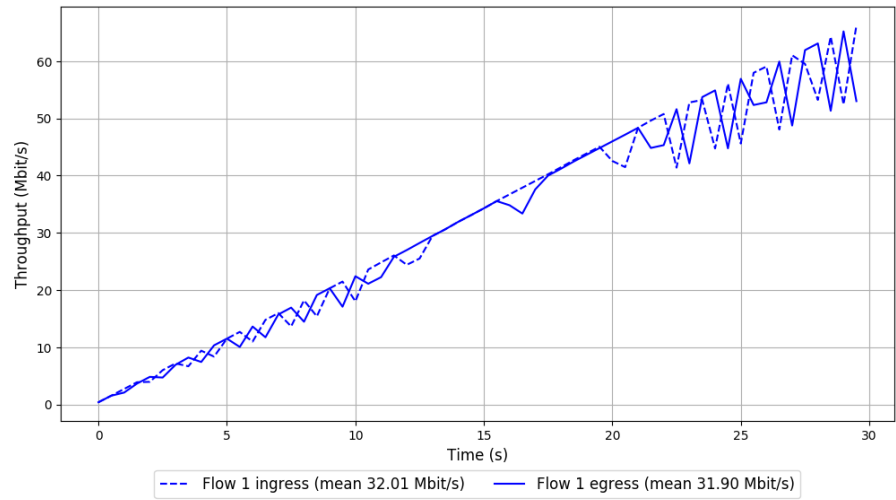
-- Flow 1:

Average throughput: 31.90 Mbit/s

95th percentile per-packet one-way delay: 54.818 ms

Loss rate: 0.70%

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



Run 5: Statistics of LEDBAT

Start at: 2018-03-13 04:30:44

End at: 2018-03-13 04:31:14

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 51.528 ms

Loss rate: 0.71%

-- Flow 1:

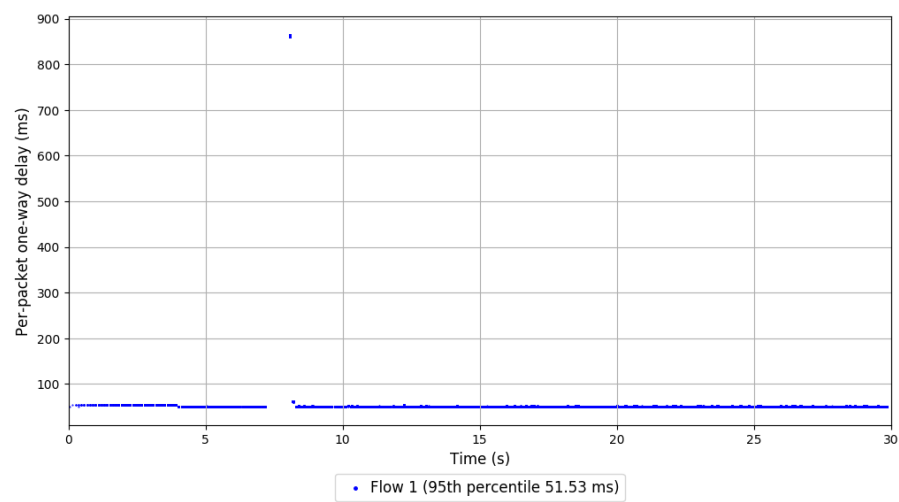
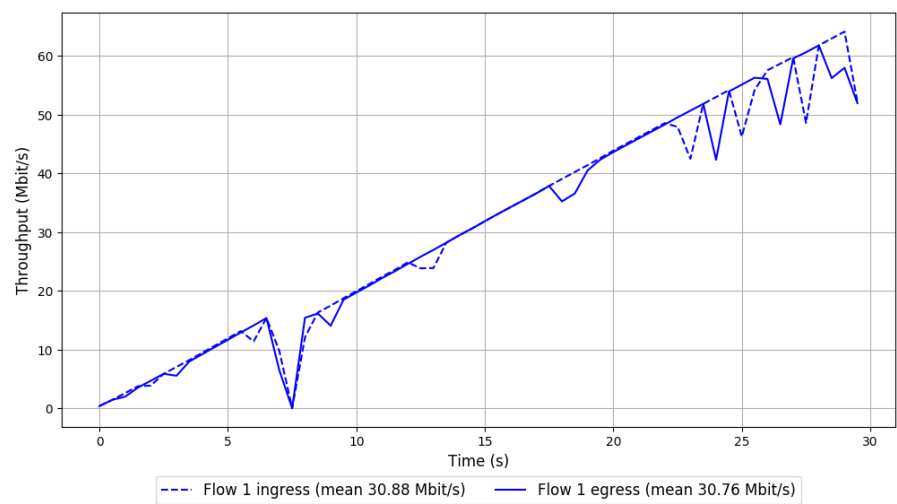
Average throughput: 30.76 Mbit/s

95th percentile per-packet one-way delay: 51.528 ms

Loss rate: 0.71%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-13 04:45:13

End at: 2018-03-13 04:45:43

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.71 Mbit/s

95th percentile per-packet one-way delay: 54.781 ms

Loss rate: 0.70%

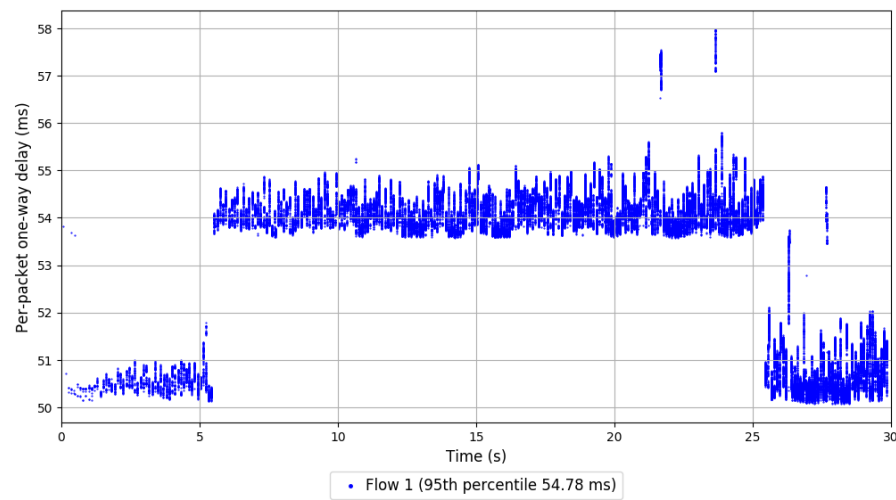
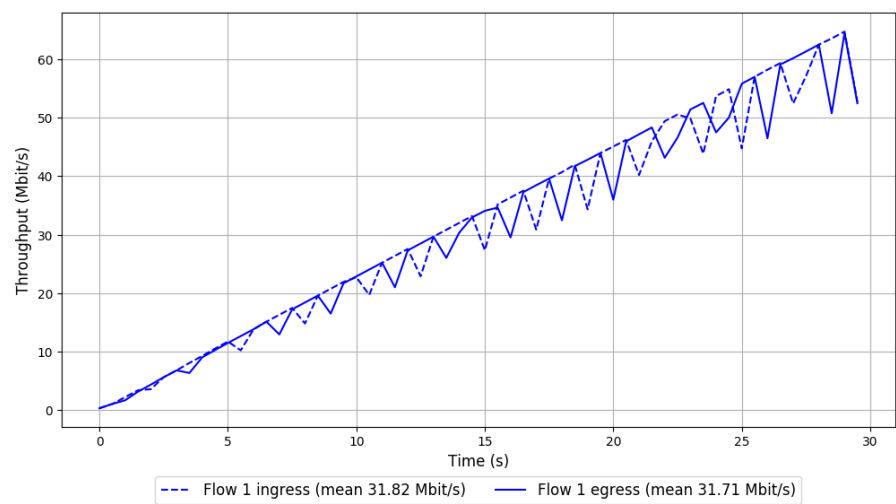
-- Flow 1:

Average throughput: 31.71 Mbit/s

95th percentile per-packet one-way delay: 54.781 ms

Loss rate: 0.70%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-13 04:59:30

End at: 2018-03-13 05:00:00

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.33 Mbit/s

95th percentile per-packet one-way delay: 54.727 ms

Loss rate: 0.67%

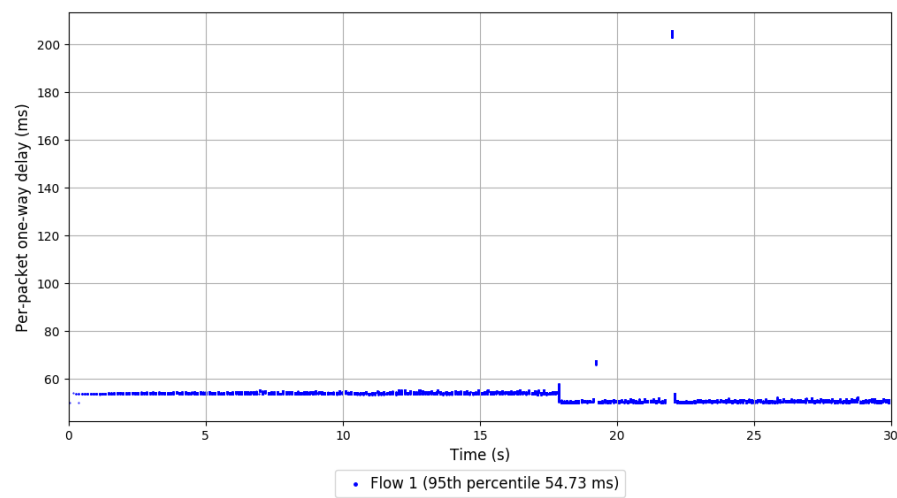
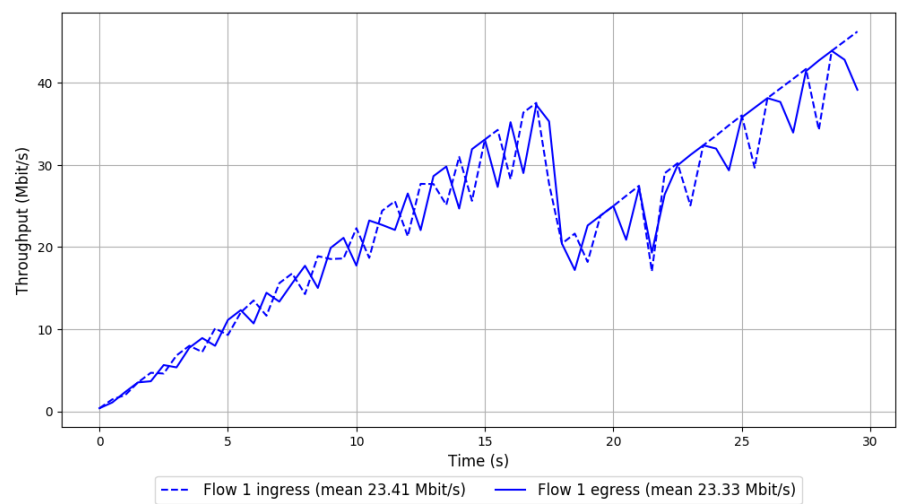
-- Flow 1:

Average throughput: 23.33 Mbit/s

95th percentile per-packet one-way delay: 54.727 ms

Loss rate: 0.67%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-13 05:14:03

End at: 2018-03-13 05:14:33

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 55.121 ms

Loss rate: 0.70%

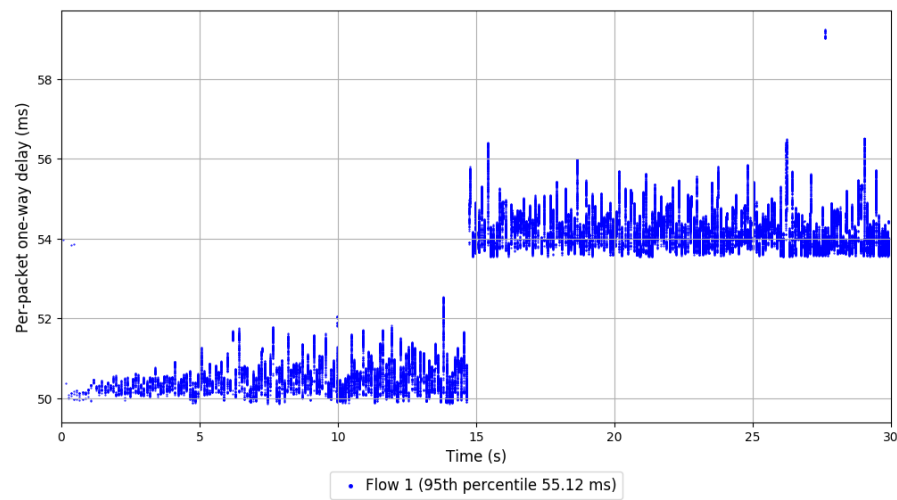
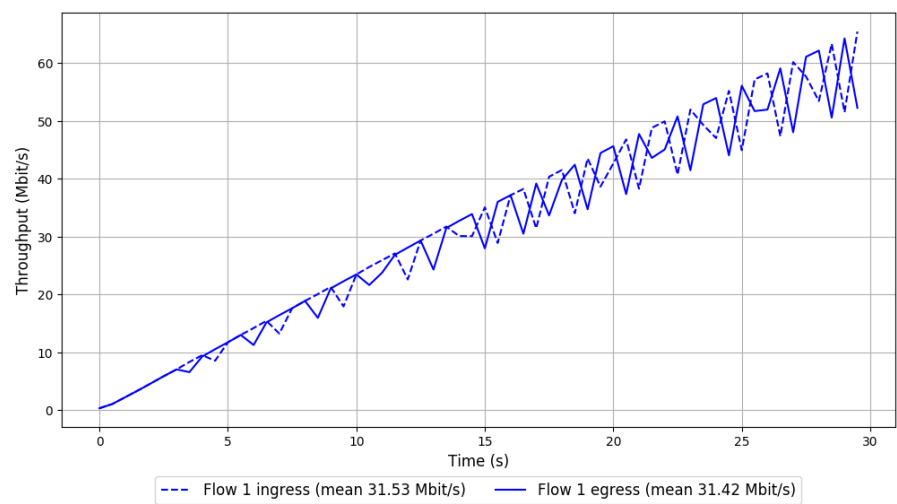
-- Flow 1:

Average throughput: 31.42 Mbit/s

95th percentile per-packet one-way delay: 55.121 ms

Loss rate: 0.70%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-13 05:28:29

End at: 2018-03-13 05:28:59

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.31 Mbit/s

95th percentile per-packet one-way delay: 54.971 ms

Loss rate: 0.68%

-- Flow 1:

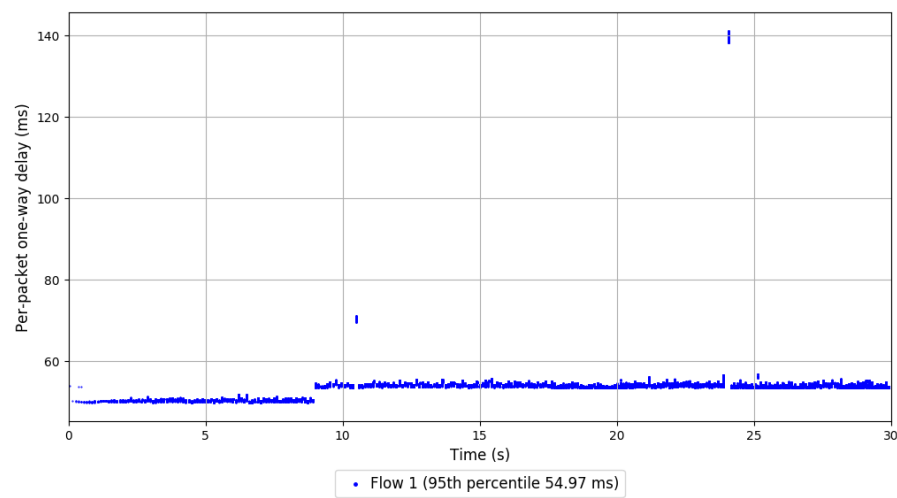
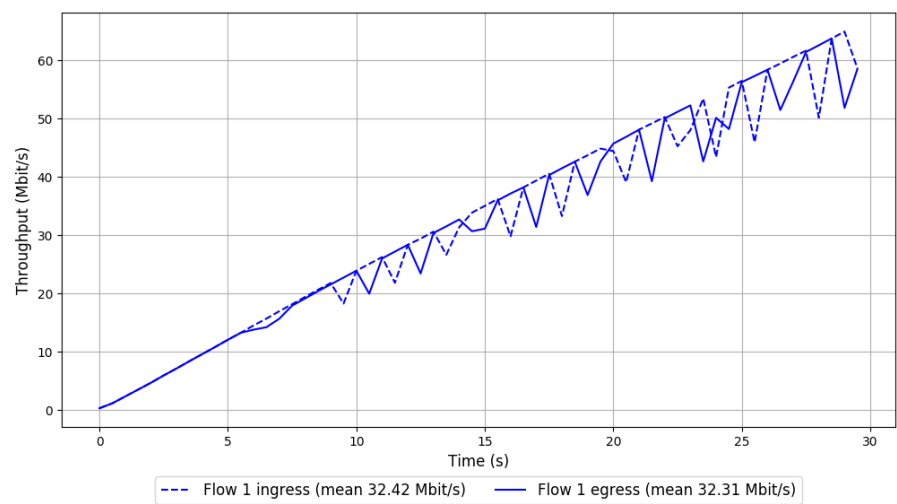
Average throughput: 32.31 Mbit/s

95th percentile per-packet one-way delay: 54.971 ms

Loss rate: 0.68%



Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-13 05:42:46

End at: 2018-03-13 05:43:16

# Below is generated by plot.py at 2018-03-13 08:42:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 33.34 Mbit/s

95th percentile per-packet one-way delay: 54.960 ms

Loss rate: 0.68%

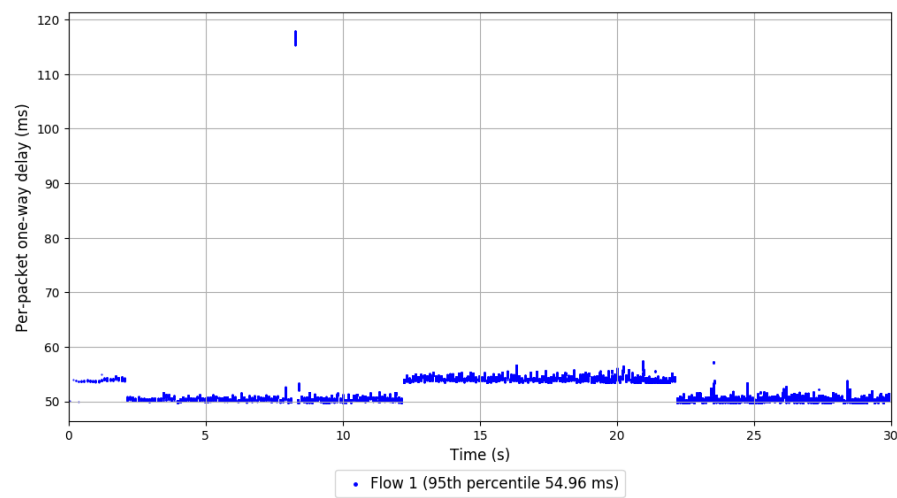
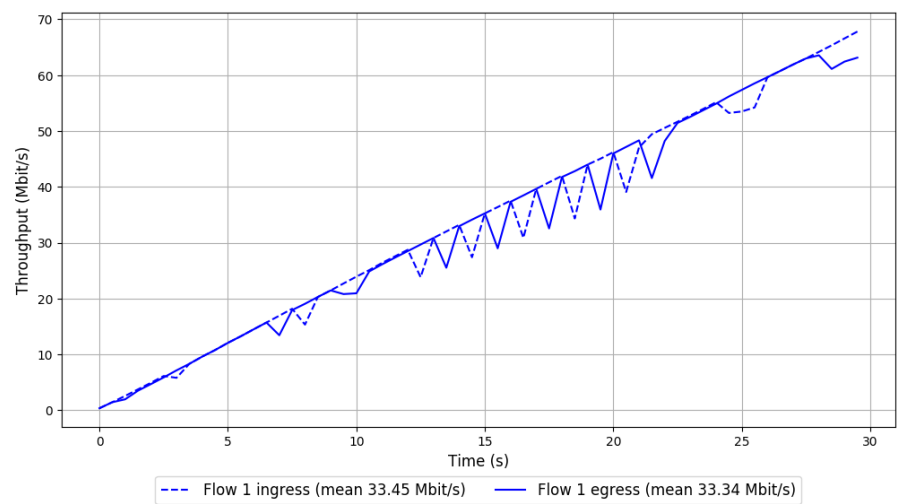
-- Flow 1:

Average throughput: 33.34 Mbit/s

95th percentile per-packet one-way delay: 54.960 ms

Loss rate: 0.68%

Run 10: Report of LEDBAT — Data Link

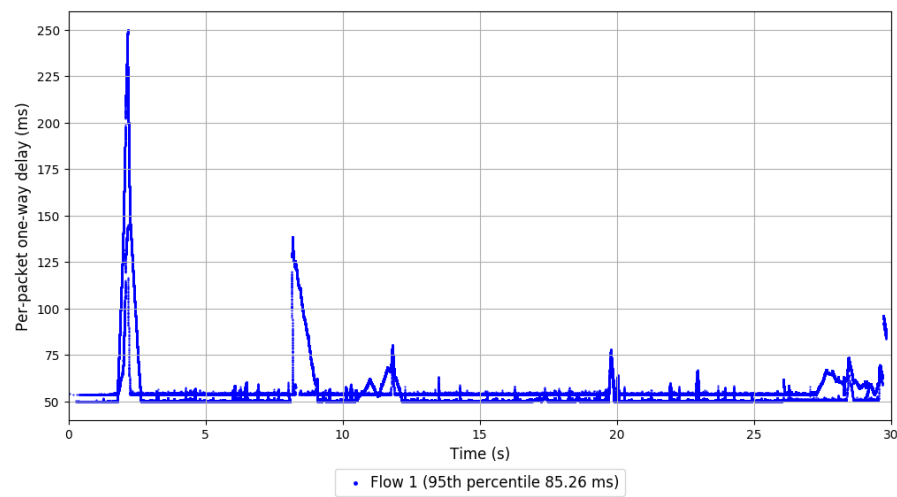
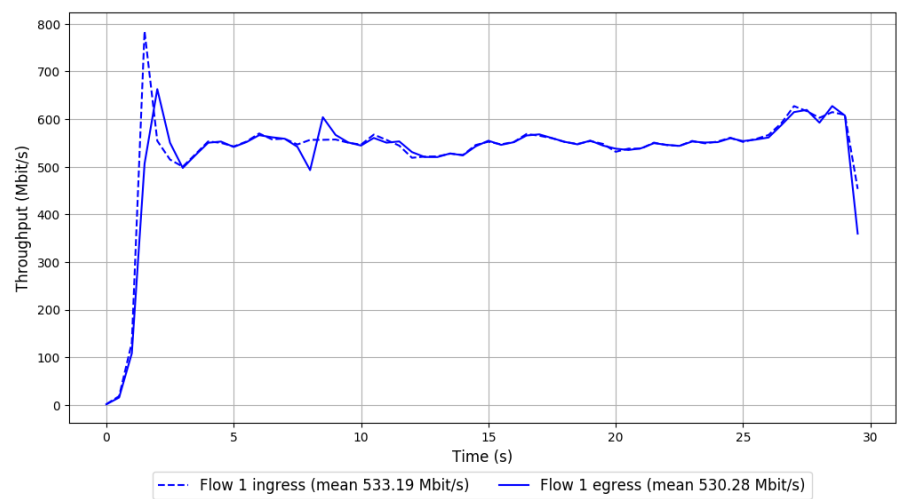


```
Run 1: Statistics of PCC

Start at: 2018-03-13 03:40:42
End at: 2018-03-13 03:41:12

# Below is generated by plot.py at 2018-03-13 08:53:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 530.28 Mbit/s
95th percentile per-packet one-way delay: 85.257 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 530.28 Mbit/s
95th percentile per-packet one-way delay: 85.257 ms
Loss rate: 0.90%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-13 03:55:04

End at: 2018-03-13 03:55:34

# Below is generated by plot.py at 2018-03-13 08:53:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 529.89 Mbit/s

95th percentile per-packet one-way delay: 185.656 ms

Loss rate: 1.61%

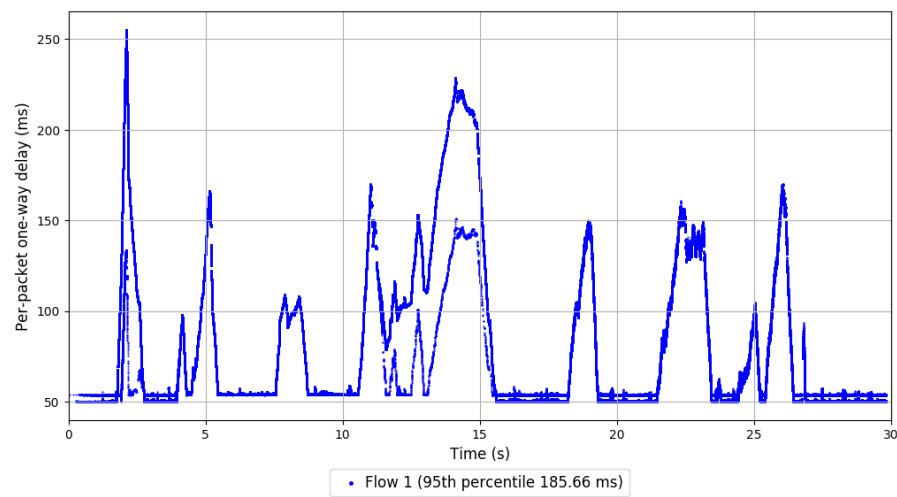
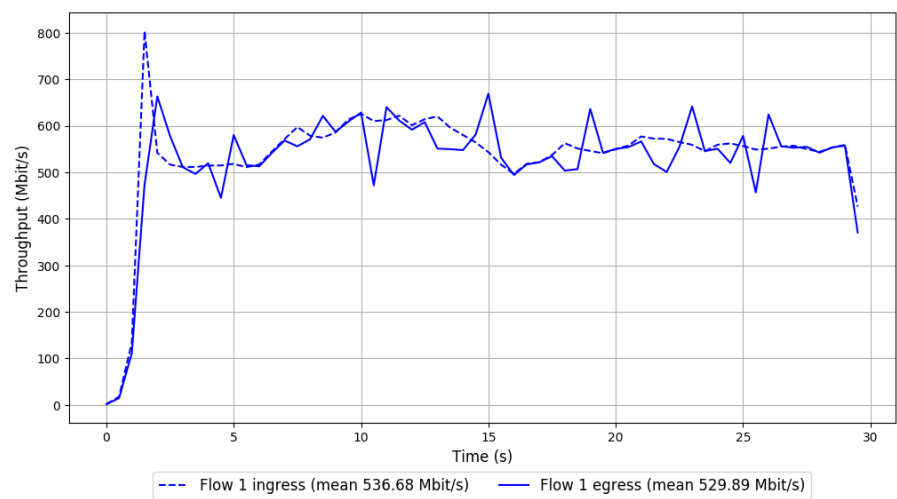
-- Flow 1:

Average throughput: 529.89 Mbit/s

95th percentile per-packet one-way delay: 185.656 ms

Loss rate: 1.61%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-13 04:09:23

End at: 2018-03-13 04:09:53

# Below is generated by plot.py at 2018-03-13 08:53:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 528.00 Mbit/s

95th percentile per-packet one-way delay: 142.201 ms

Loss rate: 1.63%

-- Flow 1:

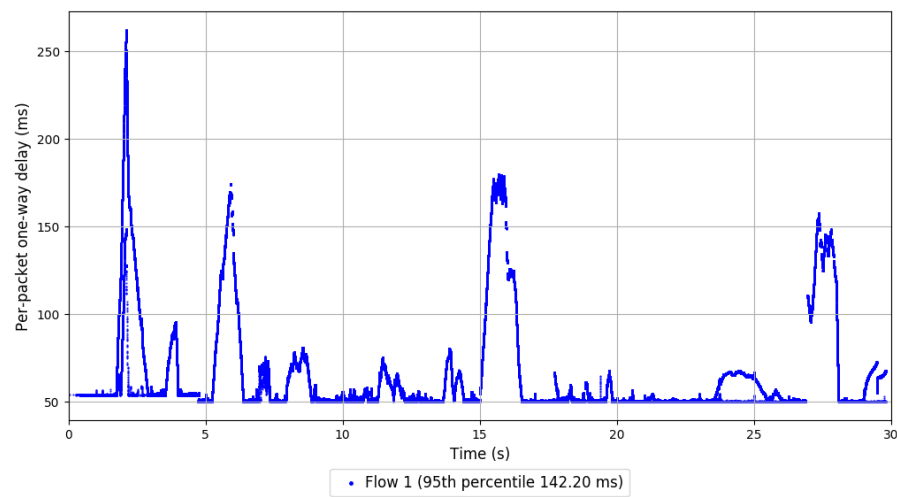
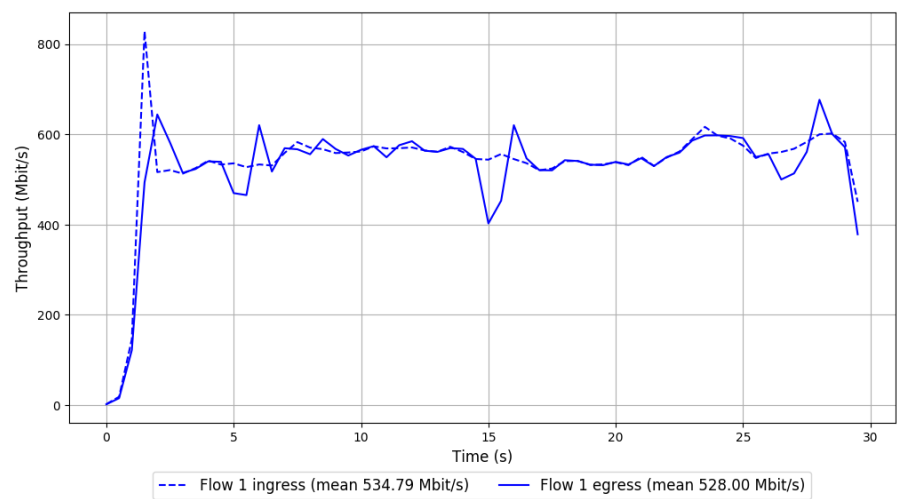
Average throughput: 528.00 Mbit/s

95th percentile per-packet one-way delay: 142.201 ms

Loss rate: 1.63%



Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-13 04:23:30

End at: 2018-03-13 04:24:00

# Below is generated by plot.py at 2018-03-13 08:53:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 551.42 Mbit/s

95th percentile per-packet one-way delay: 140.073 ms

Loss rate: 0.58%

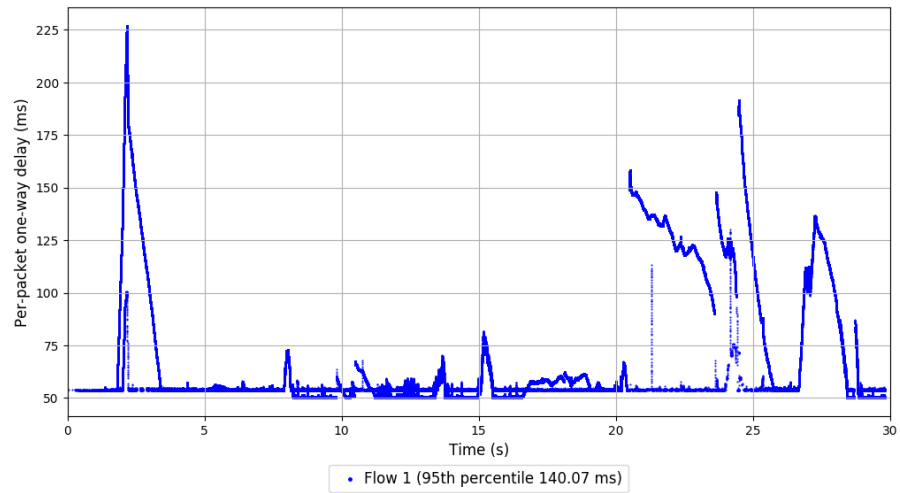
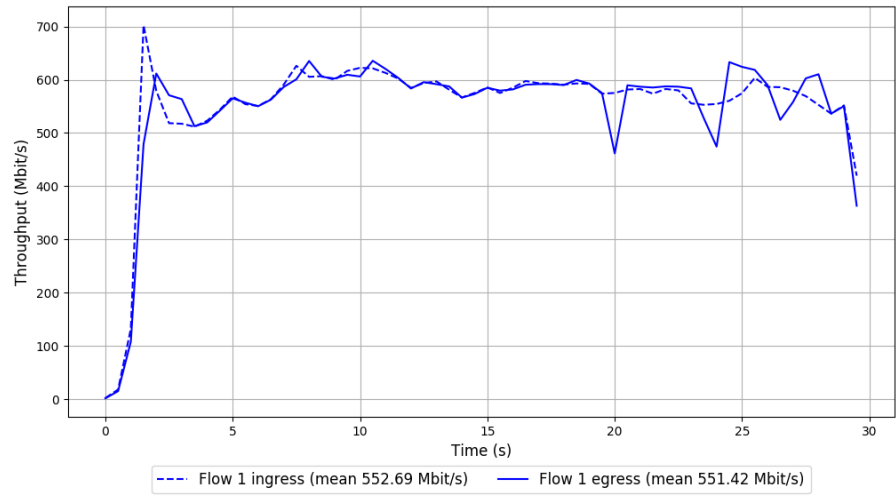
-- Flow 1:

Average throughput: 551.42 Mbit/s

95th percentile per-packet one-way delay: 140.073 ms

Loss rate: 0.58%

#### Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-13 04:37:58

End at: 2018-03-13 04:38:28

# Below is generated by plot.py at 2018-03-13 08:54:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 550.47 Mbit/s

95th percentile per-packet one-way delay: 131.874 ms

Loss rate: 1.18%

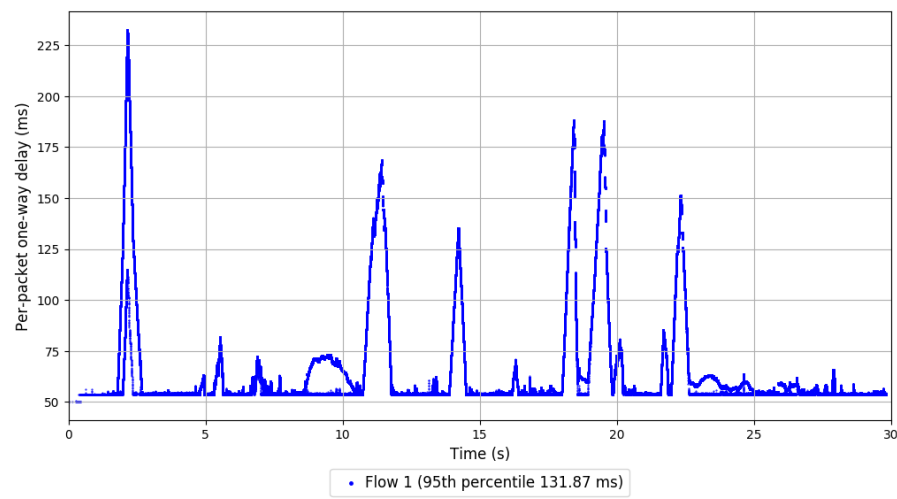
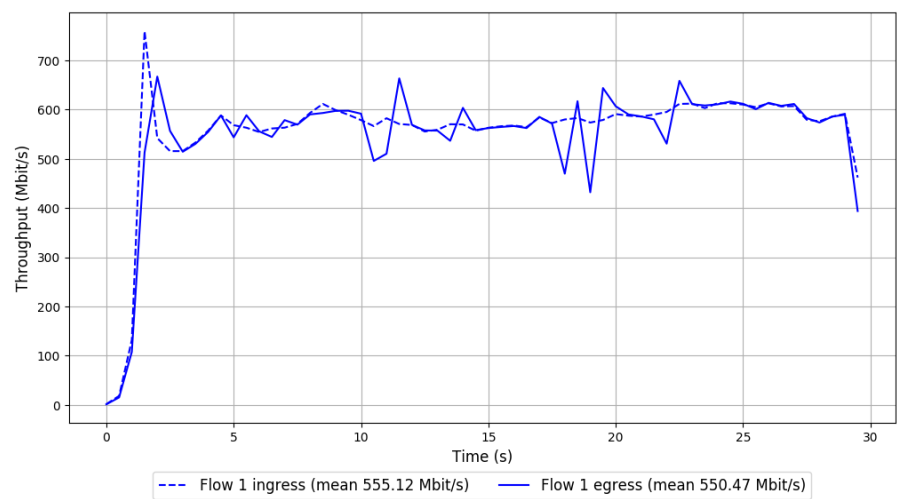
-- Flow 1:

Average throughput: 550.47 Mbit/s

95th percentile per-packet one-way delay: 131.874 ms

Loss rate: 1.18%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-13 04:52:26

End at: 2018-03-13 04:52:56

# Below is generated by plot.py at 2018-03-13 08:54:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 535.28 Mbit/s

95th percentile per-packet one-way delay: 117.290 ms

Loss rate: 0.75%

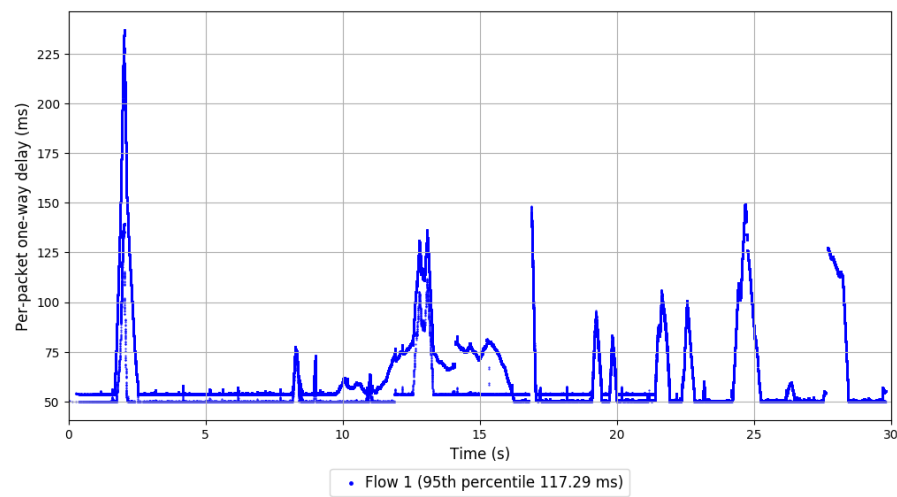
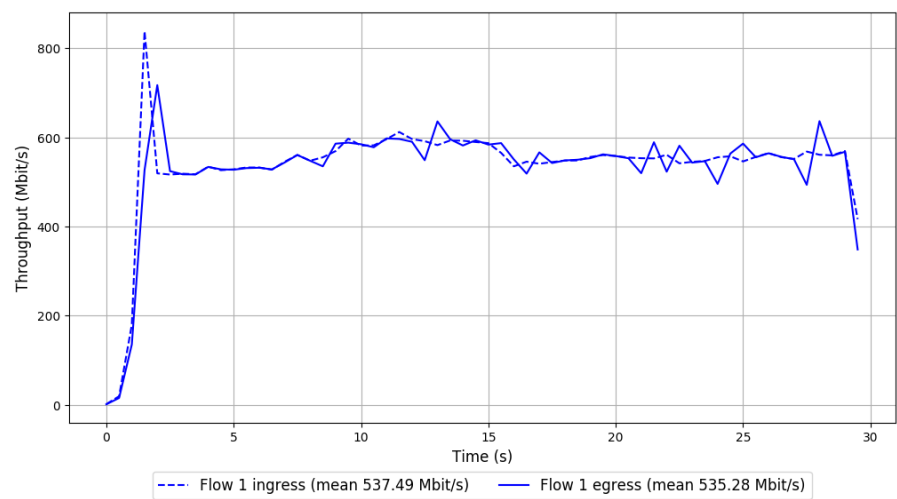
-- Flow 1:

Average throughput: 535.28 Mbit/s

95th percentile per-packet one-way delay: 117.290 ms

Loss rate: 0.75%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-13 05:06:45

End at: 2018-03-13 05:07:15

# Below is generated by plot.py at 2018-03-13 08:54:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 551.00 Mbit/s

95th percentile per-packet one-way delay: 177.787 ms

Loss rate: 2.04%

-- Flow 1:

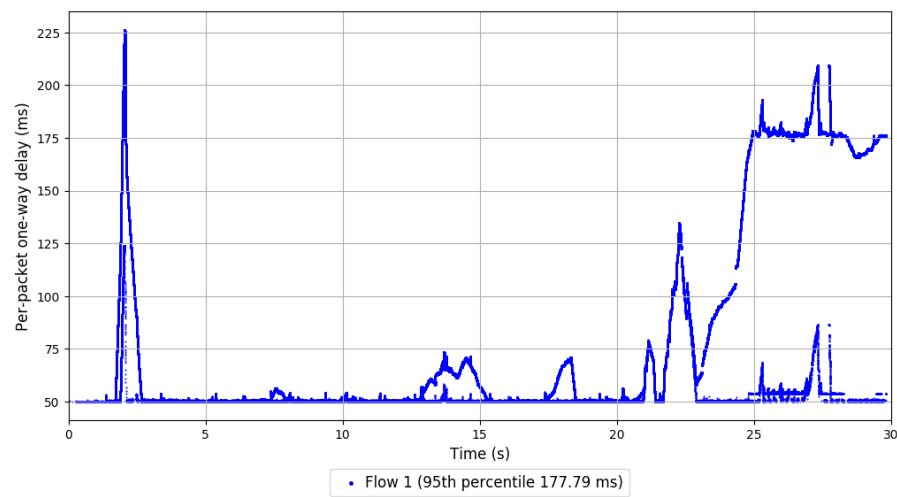
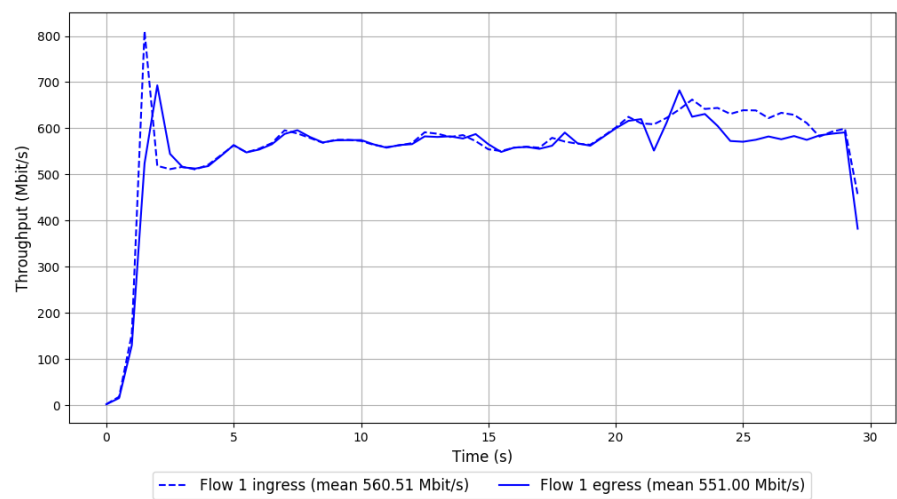
Average throughput: 551.00 Mbit/s

95th percentile per-packet one-way delay: 177.787 ms

Loss rate: 2.04%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-13 05:21:16

End at: 2018-03-13 05:21:46

# Below is generated by plot.py at 2018-03-13 08:54:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 509.97 Mbit/s

95th percentile per-packet one-way delay: 68.383 ms

Loss rate: 0.41%

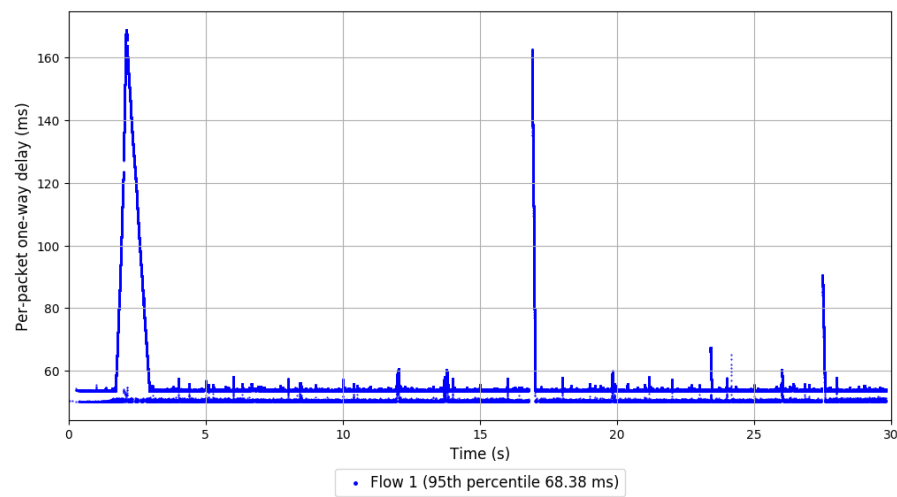
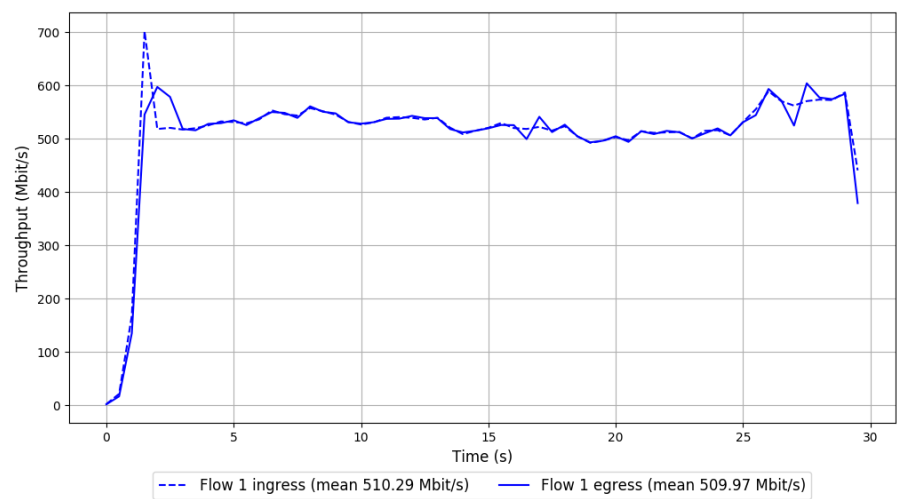
-- Flow 1:

Average throughput: 509.97 Mbit/s

95th percentile per-packet one-way delay: 68.383 ms

Loss rate: 0.41%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-13 05:35:48

End at: 2018-03-13 05:36:18

# Below is generated by plot.py at 2018-03-13 09:05:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 530.65 Mbit/s

95th percentile per-packet one-way delay: 111.665 ms

Loss rate: 0.76%

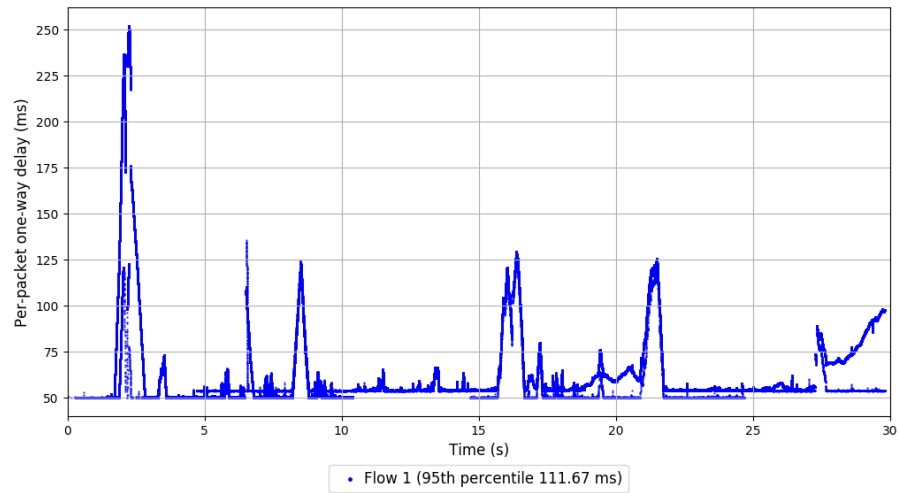
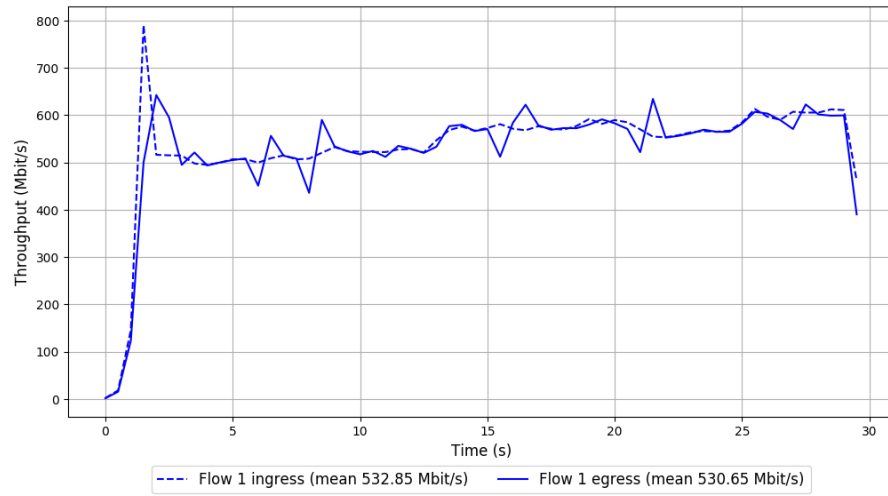
-- Flow 1:

Average throughput: 530.65 Mbit/s

95th percentile per-packet one-way delay: 111.665 ms

Loss rate: 0.76%

### Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-13 05:50:02

End at: 2018-03-13 05:50:32

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 540.18 Mbit/s

95th percentile per-packet one-way delay: 117.030 ms

Loss rate: 0.76%

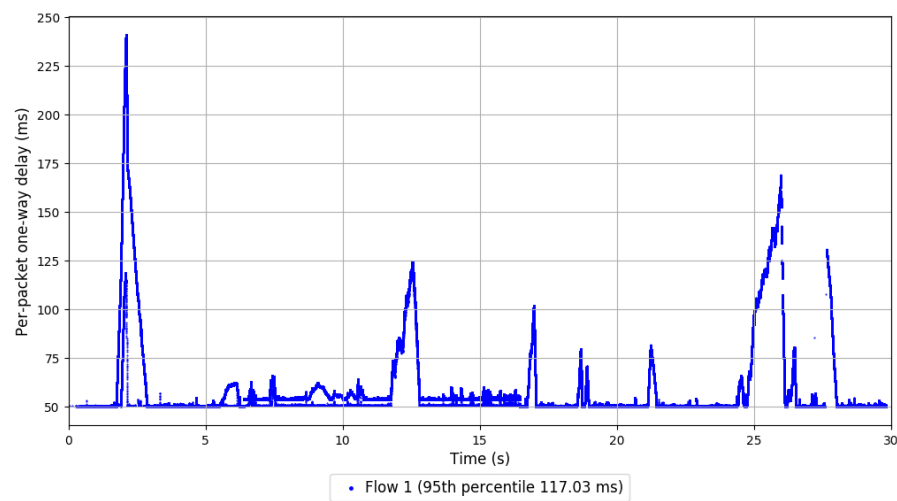
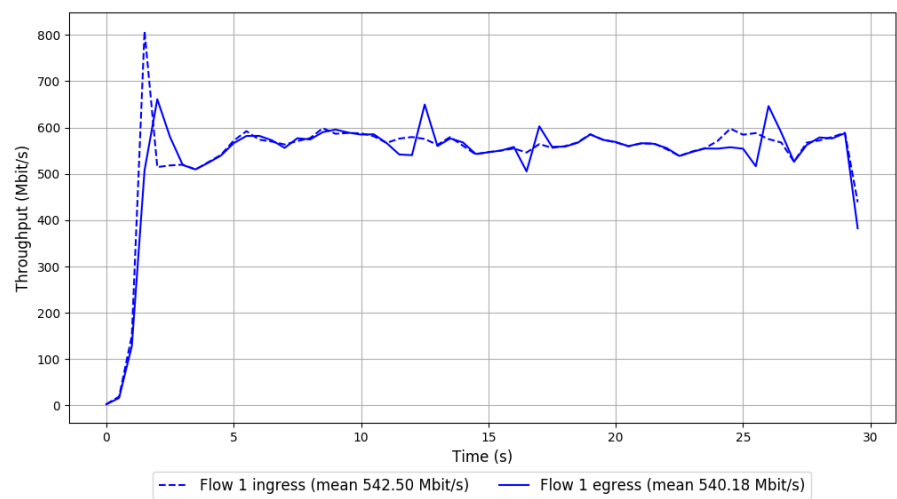
-- Flow 1:

Average throughput: 540.18 Mbit/s

95th percentile per-packet one-way delay: 117.030 ms

Loss rate: 0.76%

Run 10: Report of PCC — Data Link



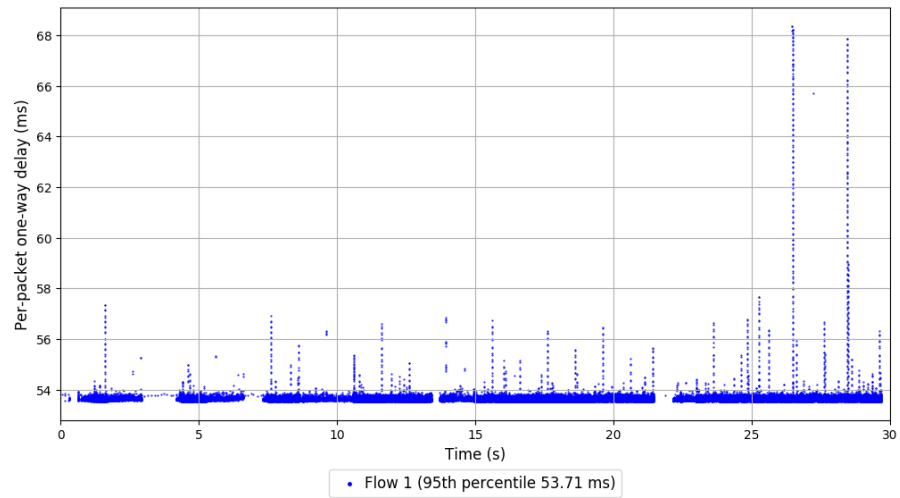
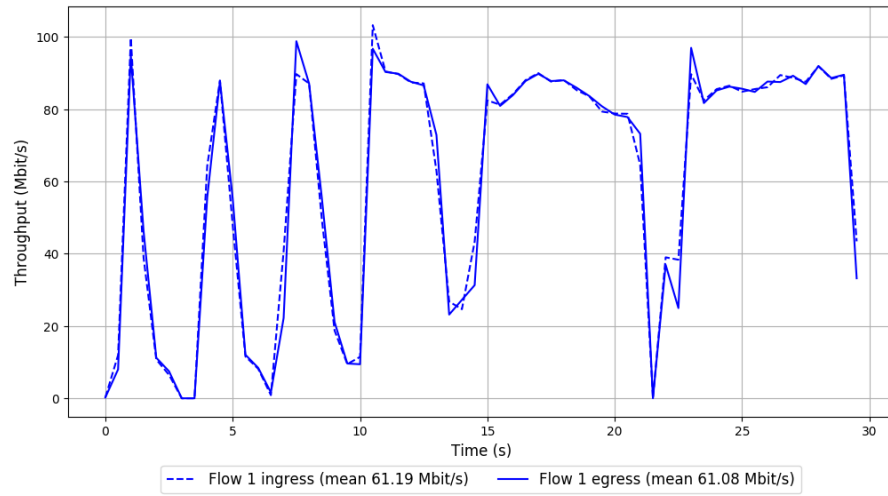
```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-13 03:34:08
End at: 2018-03-13 03:34:39

# Below is generated by plot.py at 2018-03-13 09:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.08 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 61.08 Mbit/s
95th percentile per-packet one-way delay: 53.711 ms
Loss rate: 0.54%
```



## Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-13 03:48:29

End at: 2018-03-13 03:48:59

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.88 Mbit/s

95th percentile per-packet one-way delay: 53.622 ms

Loss rate: 0.39%

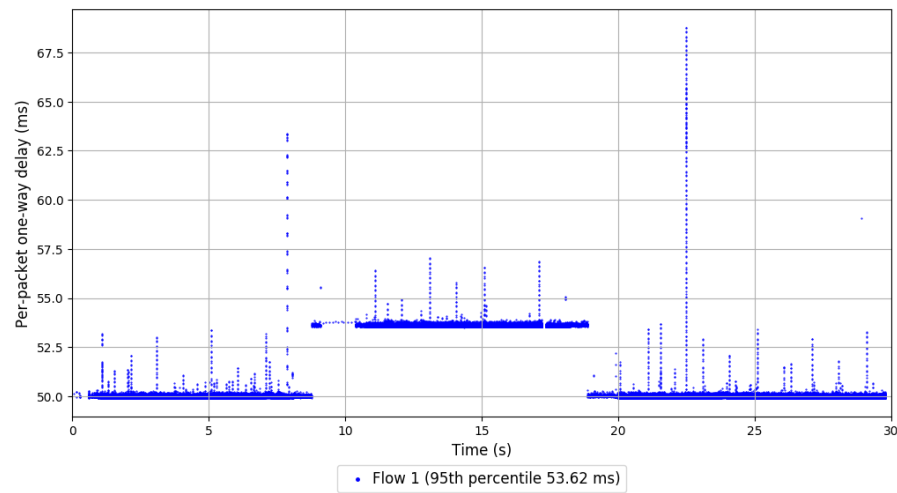
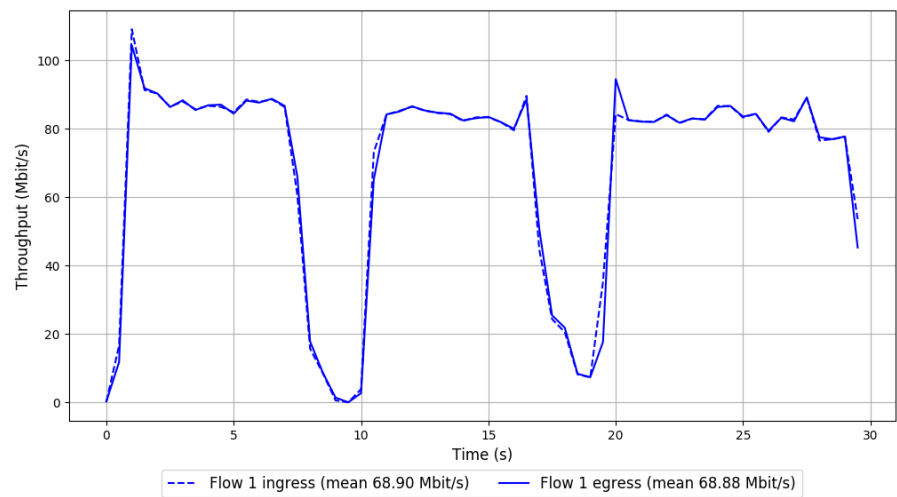
-- Flow 1:

Average throughput: 68.88 Mbit/s

95th percentile per-packet one-way delay: 53.622 ms

Loss rate: 0.39%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-13 04:02:51

End at: 2018-03-13 04:03:21

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 53.677 ms

Loss rate: 0.42%

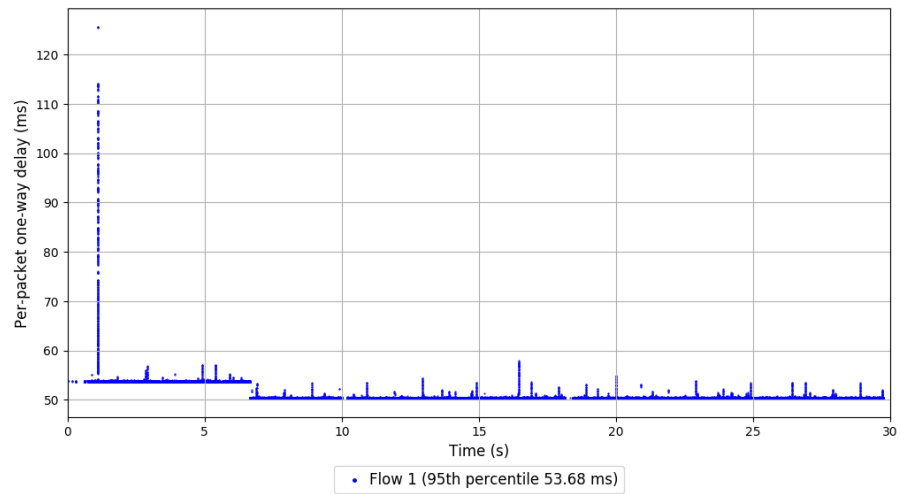
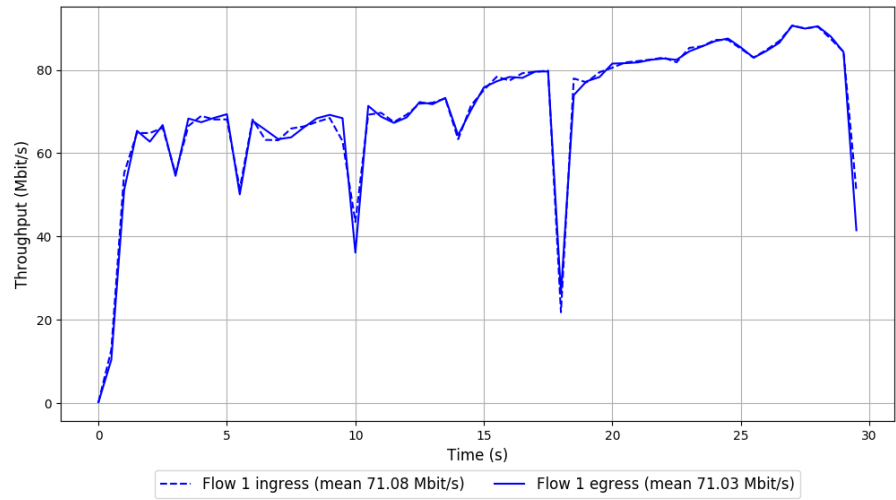
-- Flow 1:

Average throughput: 71.03 Mbit/s

95th percentile per-packet one-way delay: 53.677 ms

Loss rate: 0.42%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-13 04:16:55

End at: 2018-03-13 04:17:25

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 69.23 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.45%

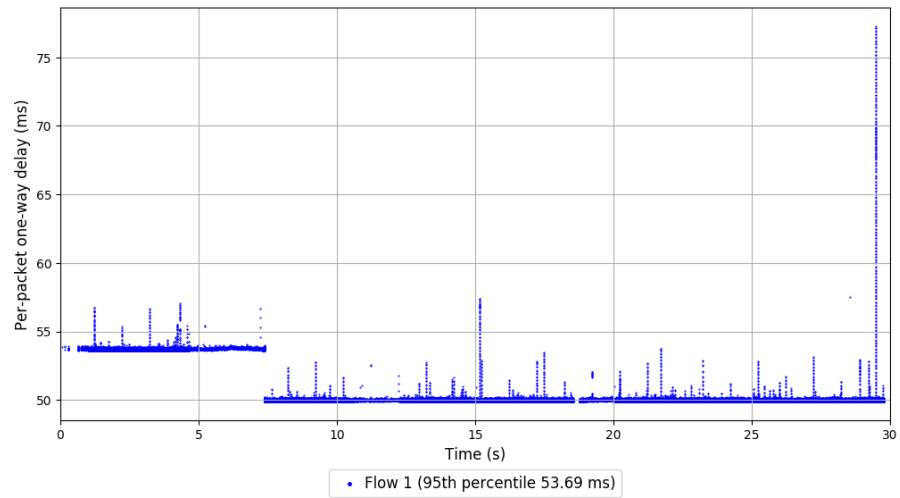
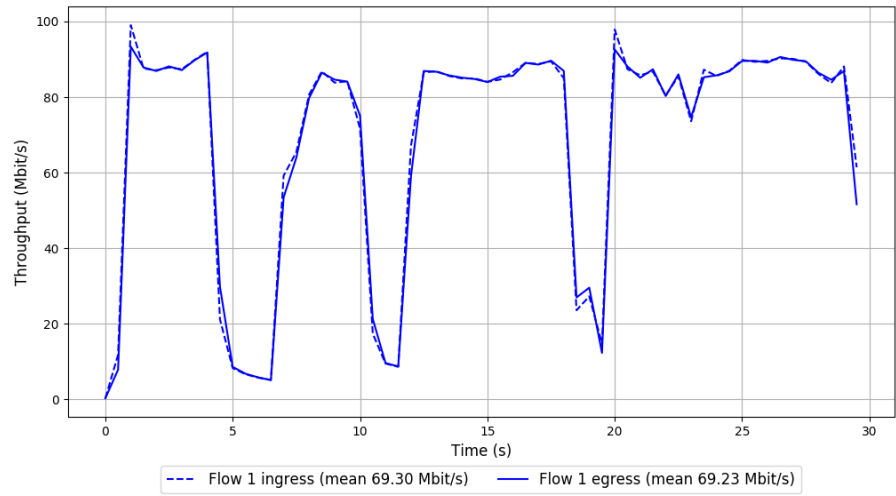
-- Flow 1:

Average throughput: 69.23 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.45%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-13 04:31:23

End at: 2018-03-13 04:31:53

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 53.706 ms

Loss rate: 0.46%

-- Flow 1:

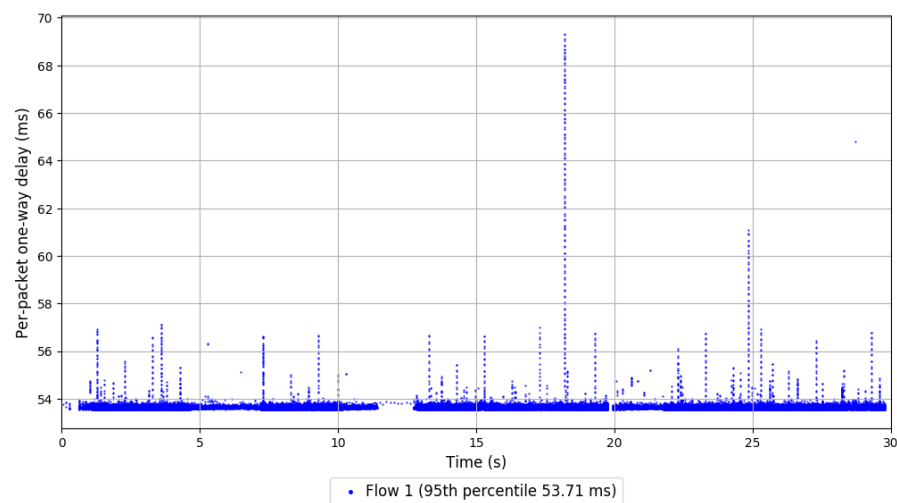
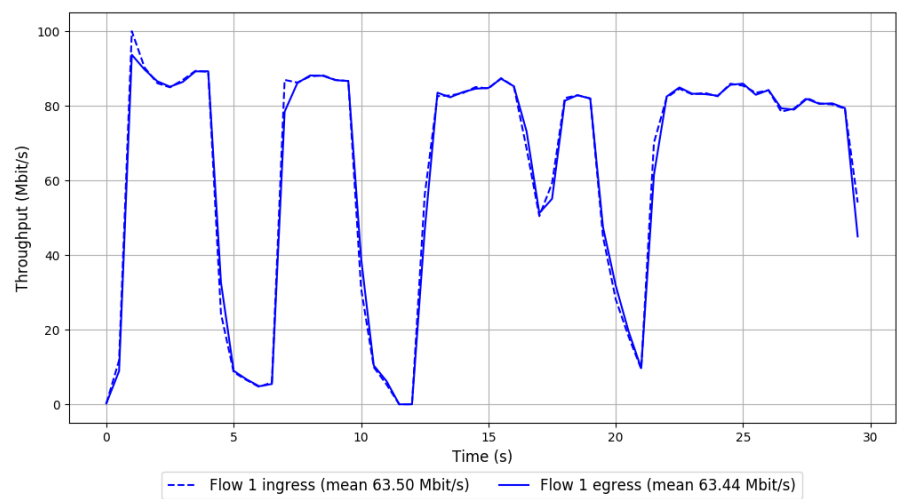
Average throughput: 63.44 Mbit/s

95th percentile per-packet one-way delay: 53.706 ms

Loss rate: 0.46%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-13 04:45:51

End at: 2018-03-13 04:46:21

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.14 Mbit/s

95th percentile per-packet one-way delay: 53.634 ms

Loss rate: 0.08%

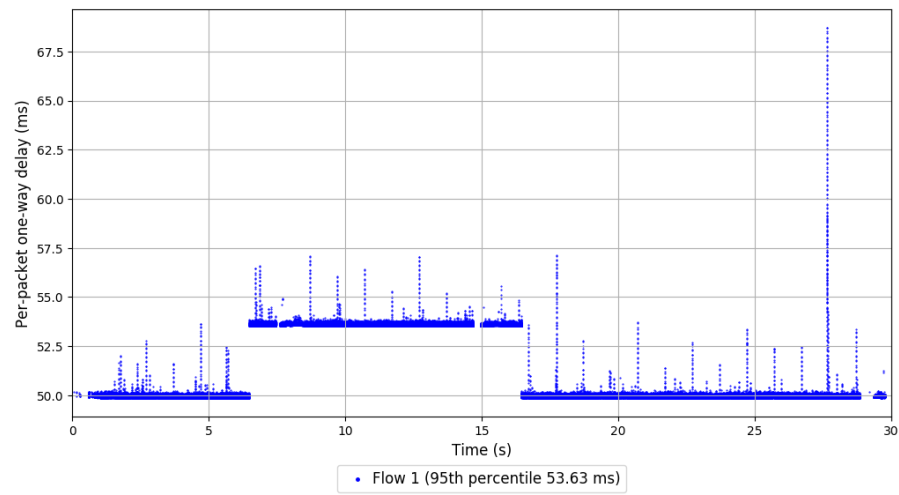
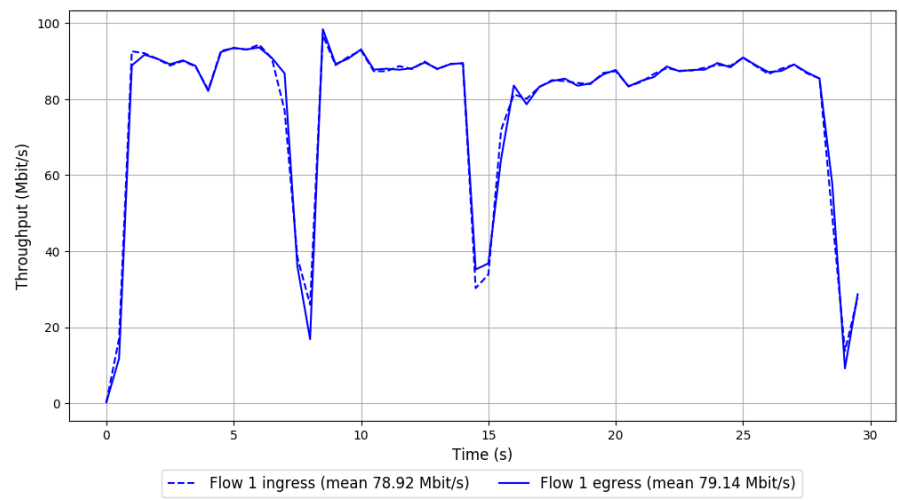
-- Flow 1:

Average throughput: 79.14 Mbit/s

95th percentile per-packet one-way delay: 53.634 ms

Loss rate: 0.08%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-13 05:00:09

End at: 2018-03-13 05:00:39

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 50.505 ms

Loss rate: 0.45%

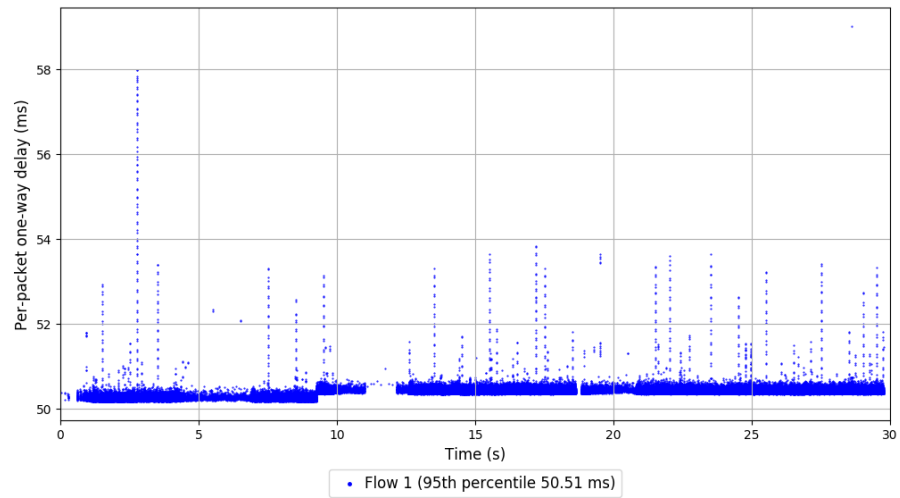
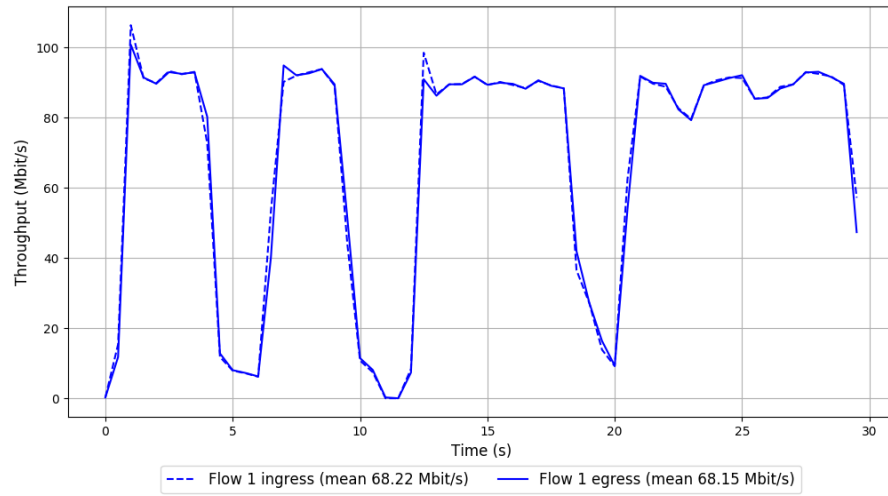
-- Flow 1:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 50.505 ms

Loss rate: 0.45%

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



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-13 05:14:42

End at: 2018-03-13 05:15:12

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 53.837 ms

Loss rate: 0.69%

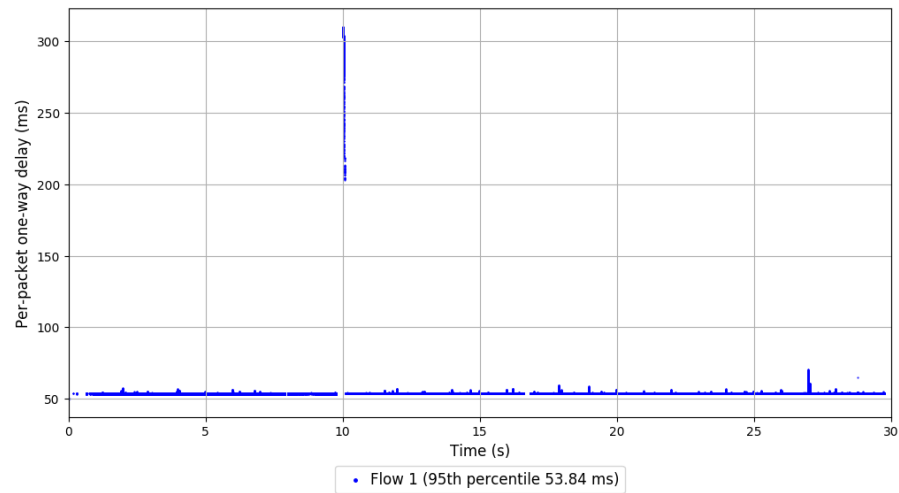
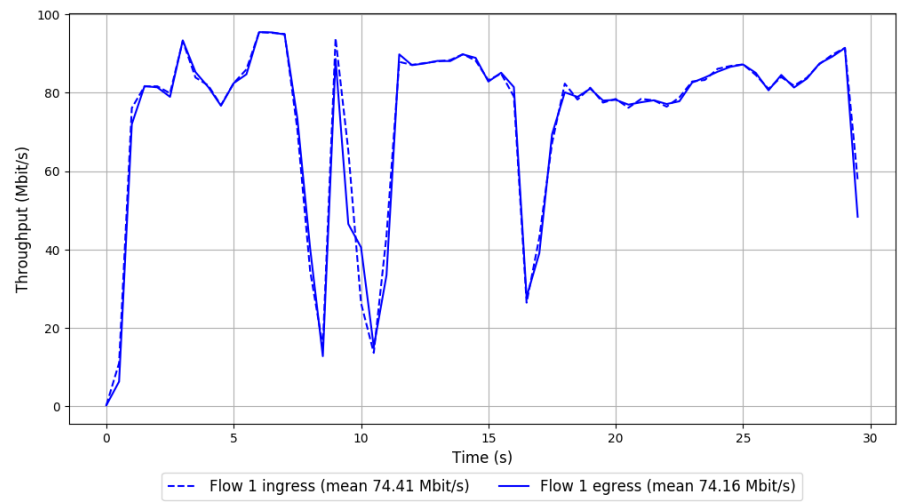
-- Flow 1:

Average throughput: 74.16 Mbit/s

95th percentile per-packet one-way delay: 53.837 ms

Loss rate: 0.69%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-13 05:29:08

End at: 2018-03-13 05:29:38

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.78 Mbit/s

95th percentile per-packet one-way delay: 53.834 ms

Loss rate: 0.44%

-- Flow 1:

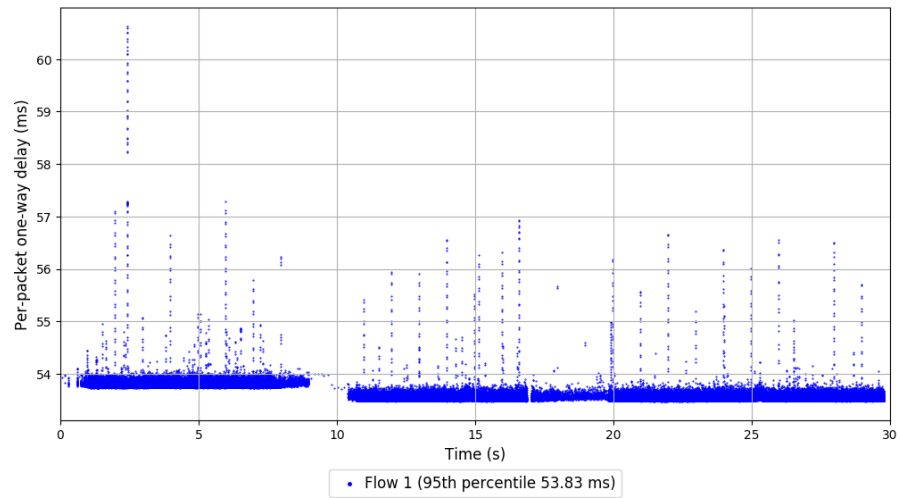
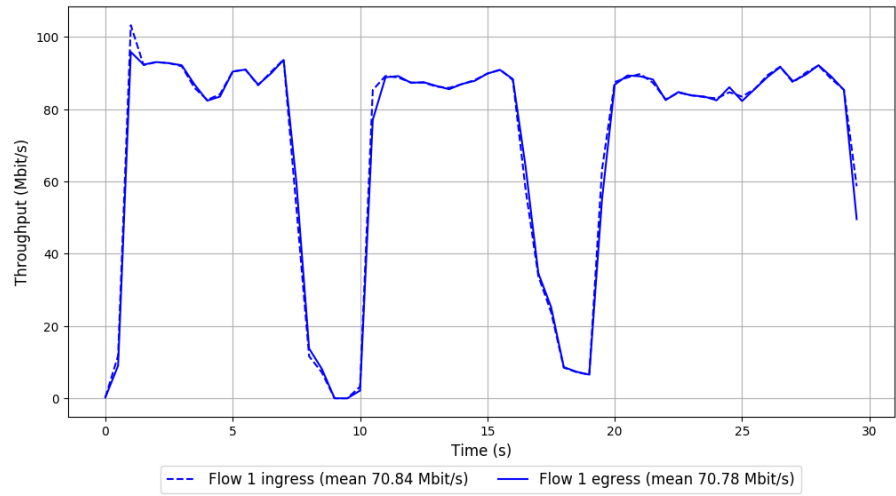
Average throughput: 70.78 Mbit/s

95th percentile per-packet one-way delay: 53.834 ms

Loss rate: 0.44%



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



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-13 05:43:25

End at: 2018-03-13 05:43:55

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.38 Mbit/s

95th percentile per-packet one-way delay: 49.898 ms

Loss rate: 0.00%

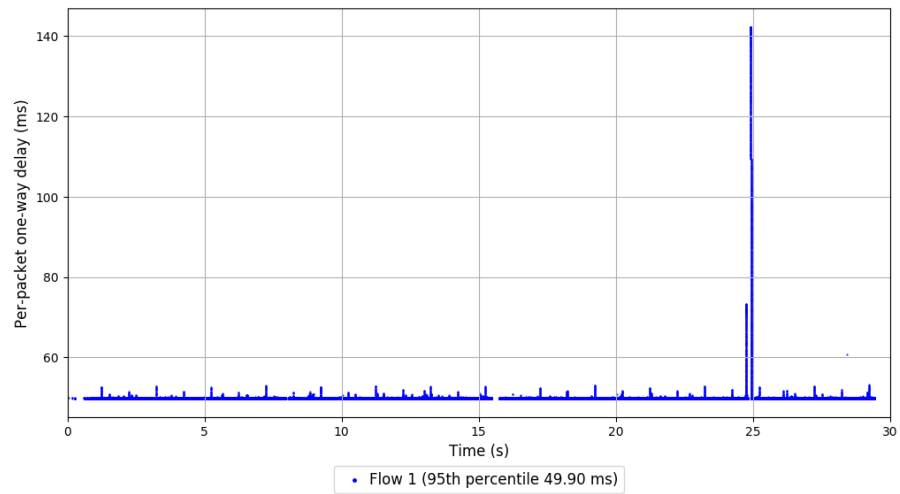
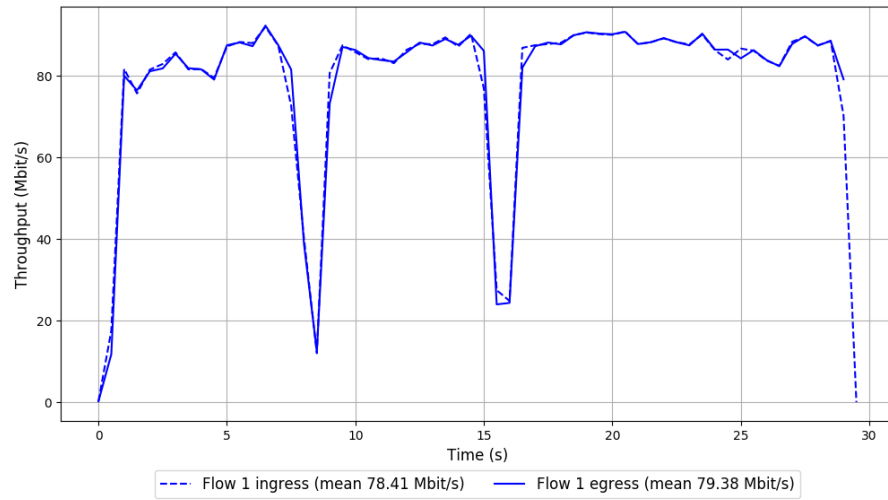
-- Flow 1:

Average throughput: 79.38 Mbit/s

95th percentile per-packet one-way delay: 49.898 ms

Loss rate: 0.00%

# Run 10: Report of QUIC Cubic — Data Link

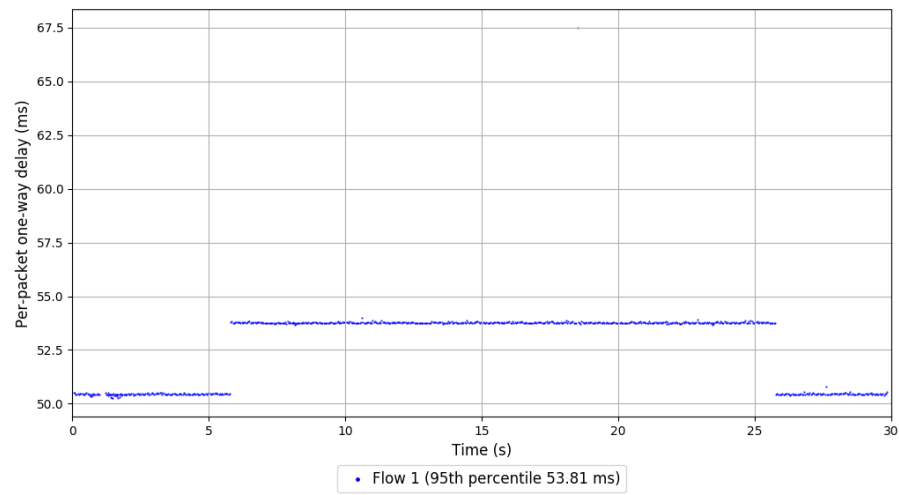
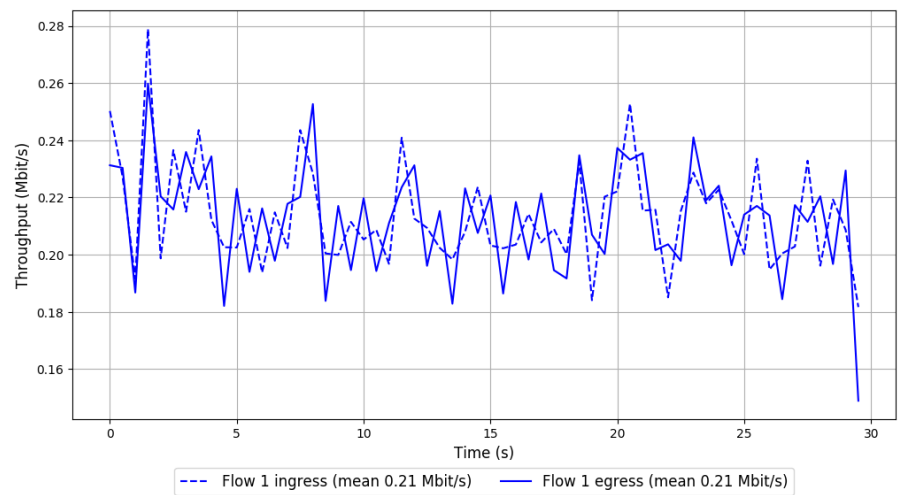


```
Run 1: Statistics of SCReAM

Start at: 2018-03-13 03:42:17
End at: 2018-03-13 03:42:47

# Below is generated by plot.py at 2018-03-13 09:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

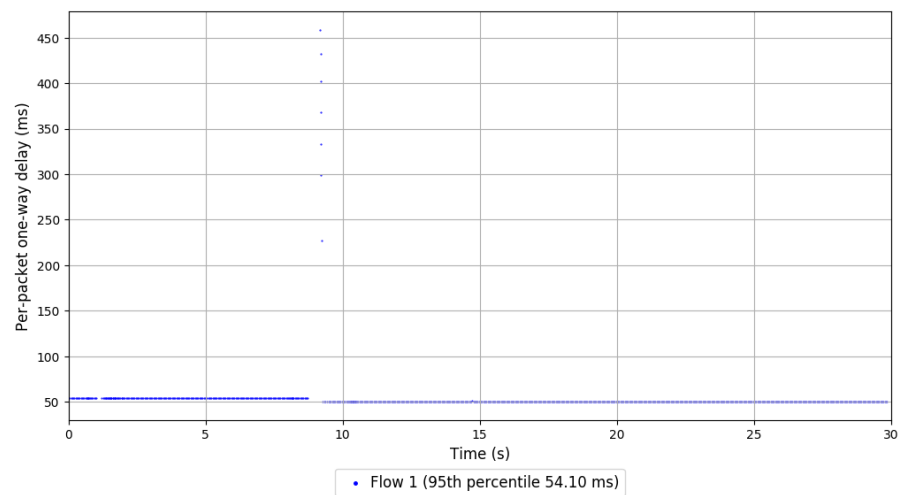
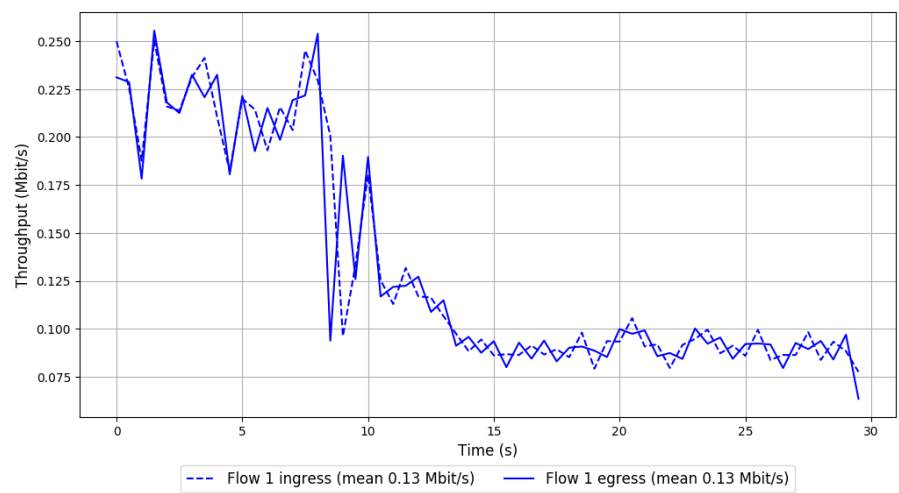


```
Run 2: Statistics of SCReAM

Start at: 2018-03-13 03:56:43
End at: 2018-03-13 03:57:13

# Below is generated by plot.py at 2018-03-13 09:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 54.101 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 54.101 ms
Loss rate: 0.47%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-13 04:11:03

End at: 2018-03-13 04:11:33

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.38%

-- Flow 1:

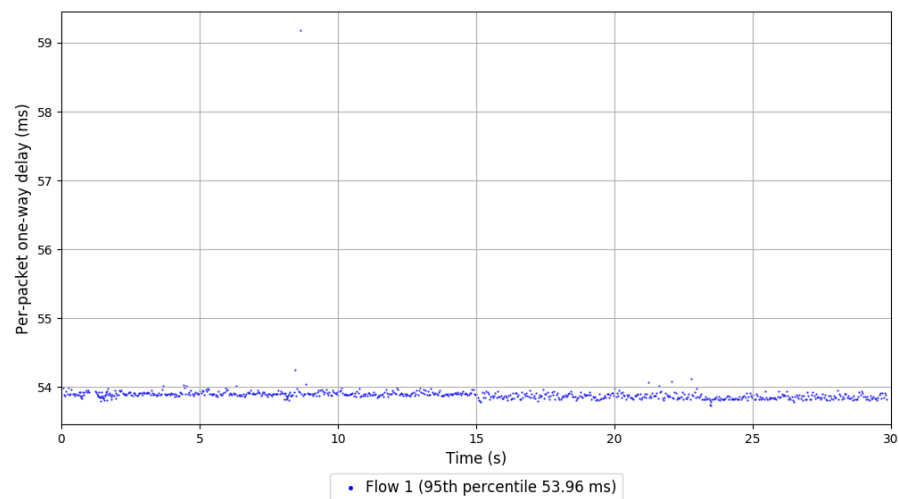
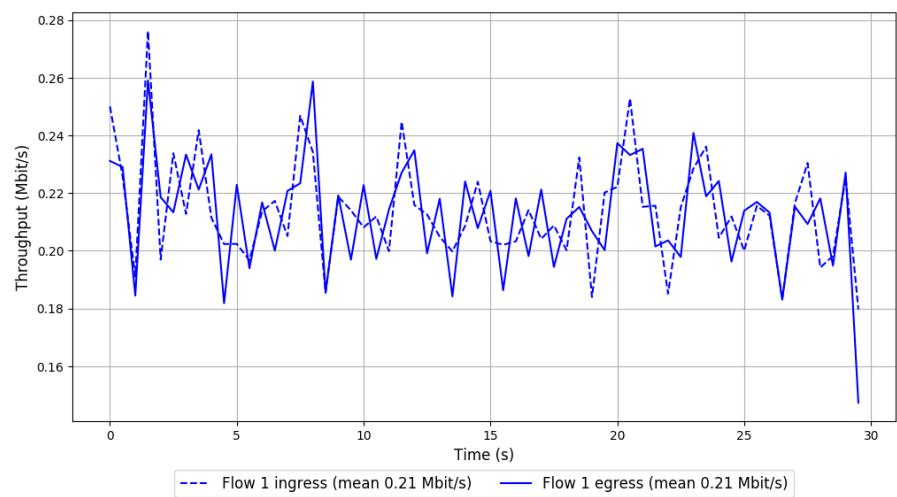
Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.38%



Run 3: Report of SReAM — Data Link

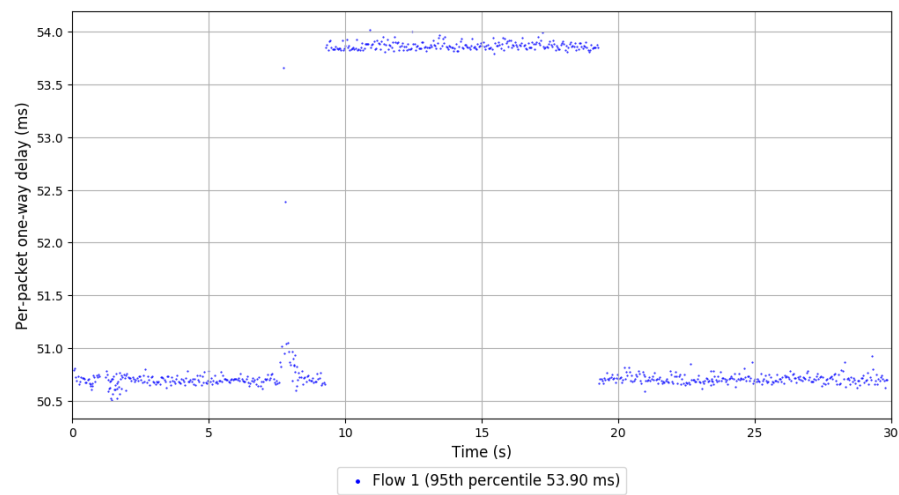
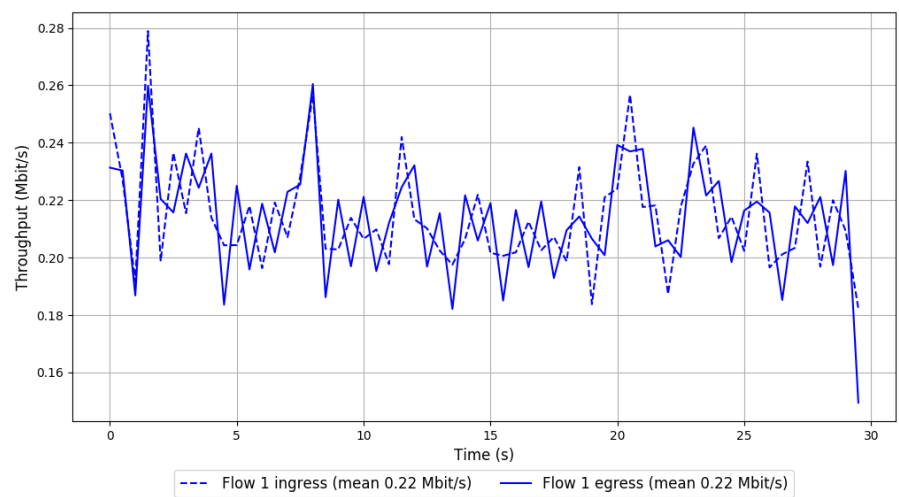


```
Run 4: Statistics of SCReAM

Start at: 2018-03-13 04:25:09
End at: 2018-03-13 04:25:39

# Below is generated by plot.py at 2018-03-13 09:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 0.38%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-13 04:39:45

End at: 2018-03-13 04:40:15

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.243 ms

Loss rate: 0.38%

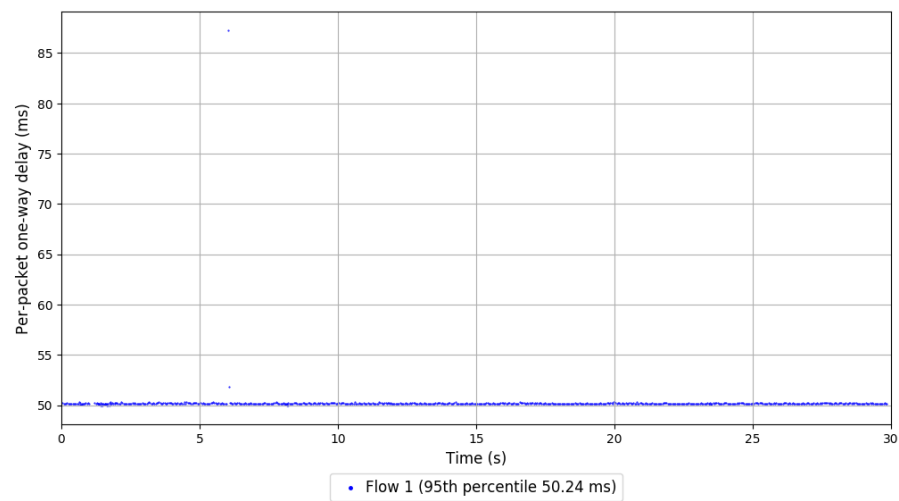
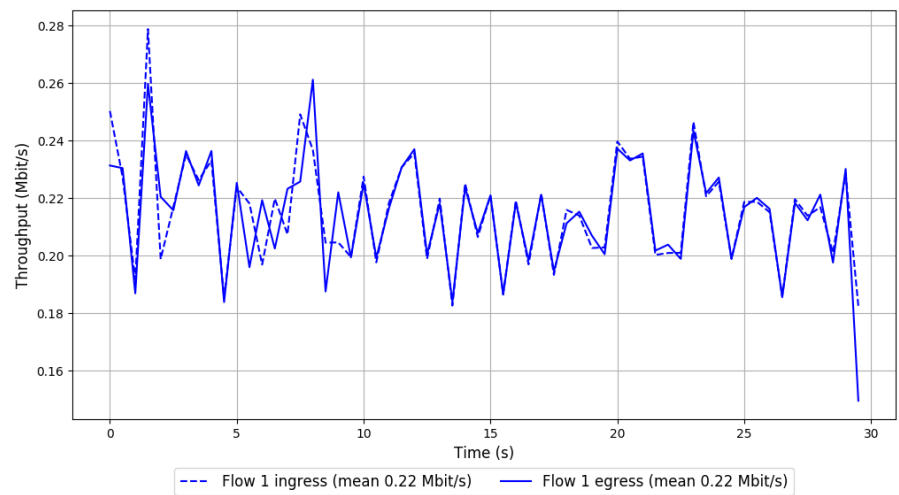
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.243 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-13 04:54:05

End at: 2018-03-13 04:54:36

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

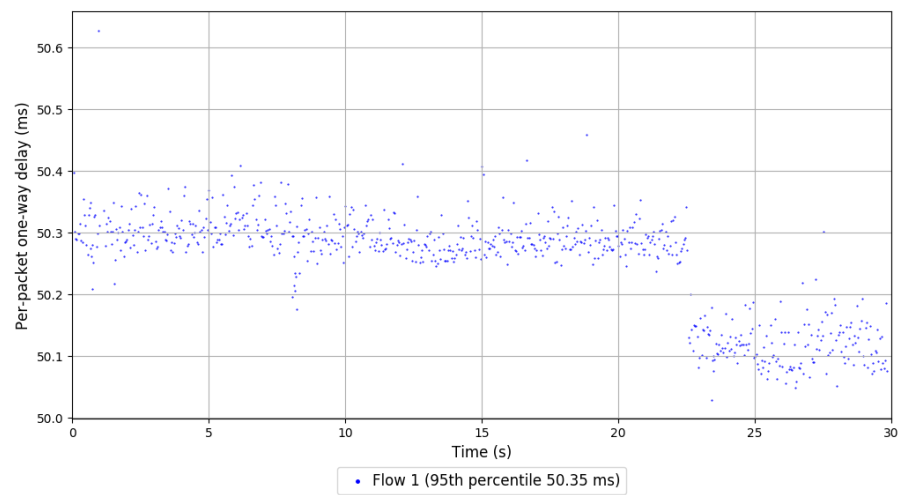
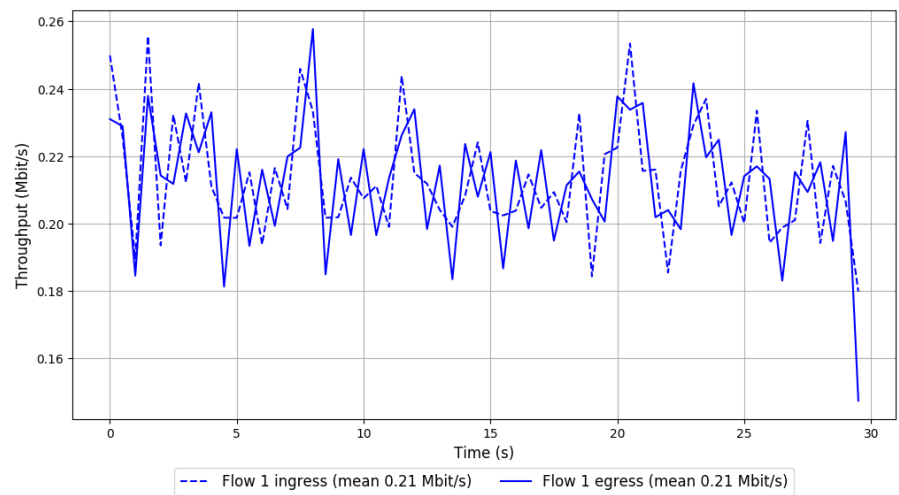
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-13 05:08:35

End at: 2018-03-13 05:09:05

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.843 ms

Loss rate: 0.38%

-- Flow 1:

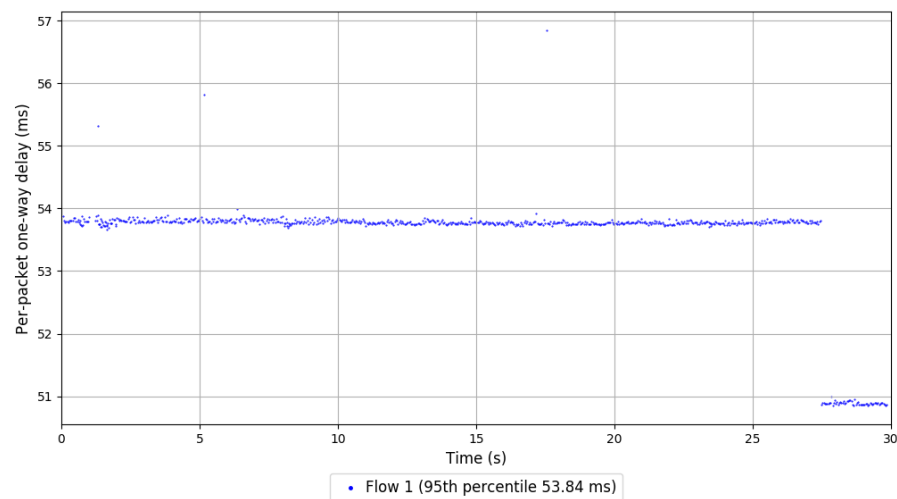
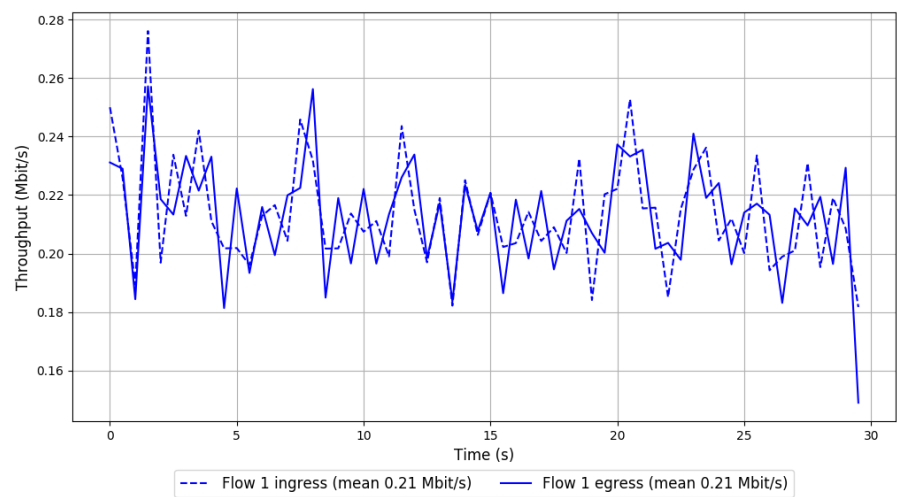
Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.843 ms

Loss rate: 0.38%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-13 05:23:14

End at: 2018-03-13 05:23:44

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.38%

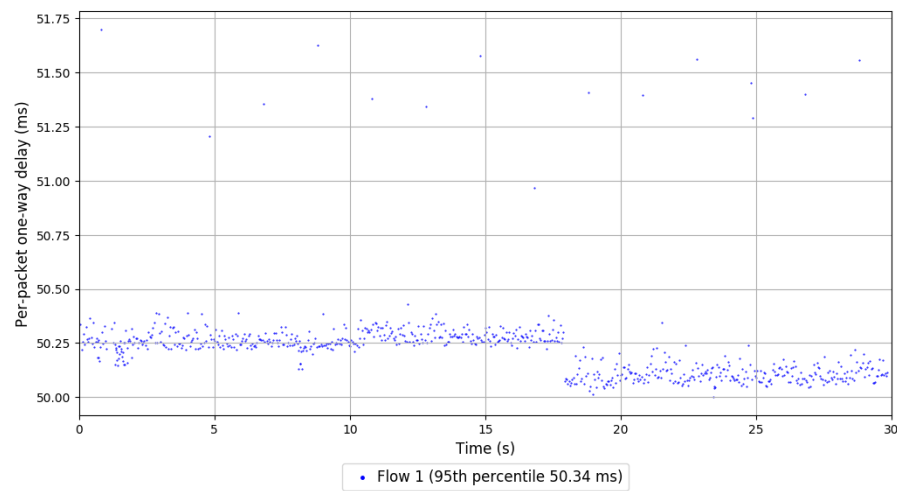
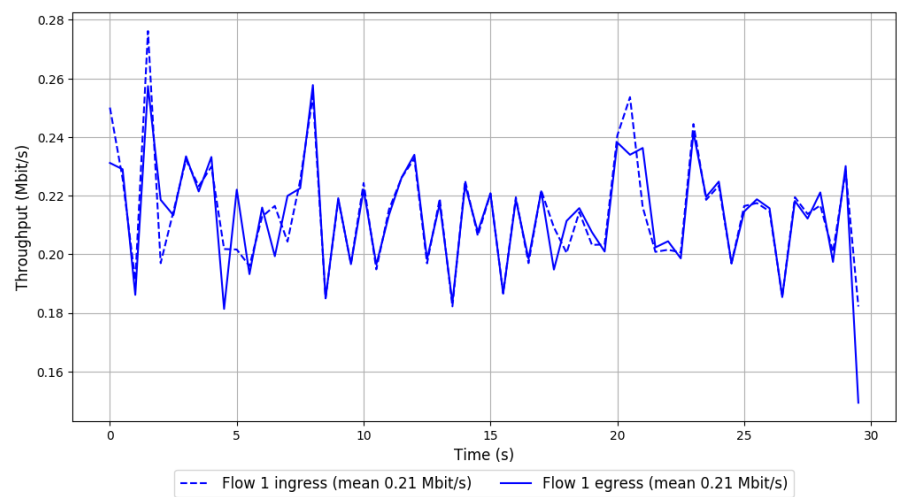
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.340 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-13 05:37:27

End at: 2018-03-13 05:37:57

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 0.38%

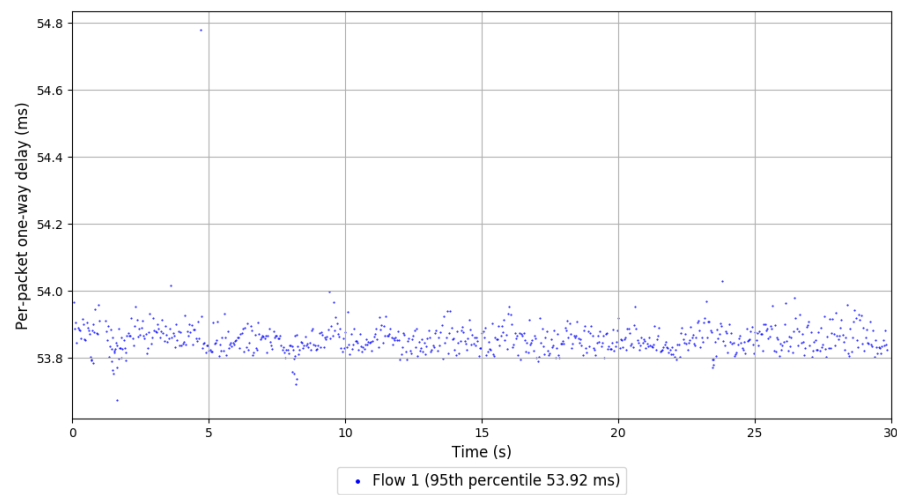
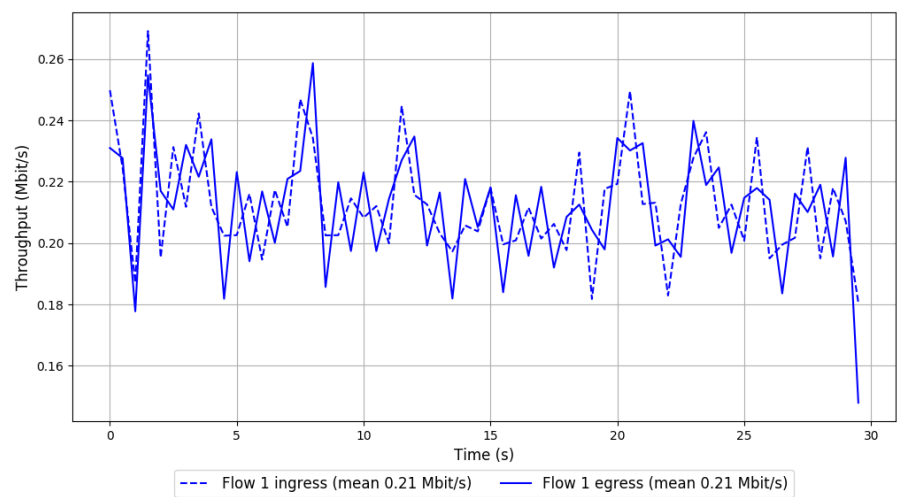
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-13 05:51:47

End at: 2018-03-13 05:52:18

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.654 ms

Loss rate: 0.38%

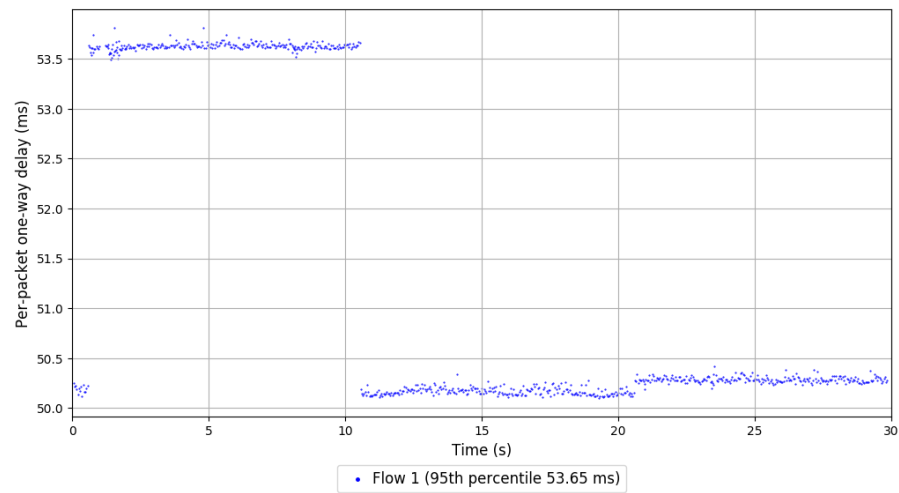
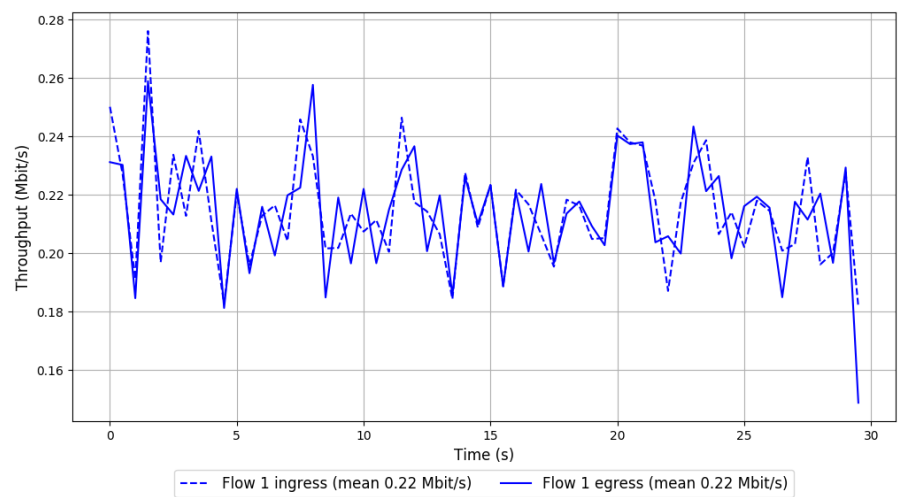
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.654 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link



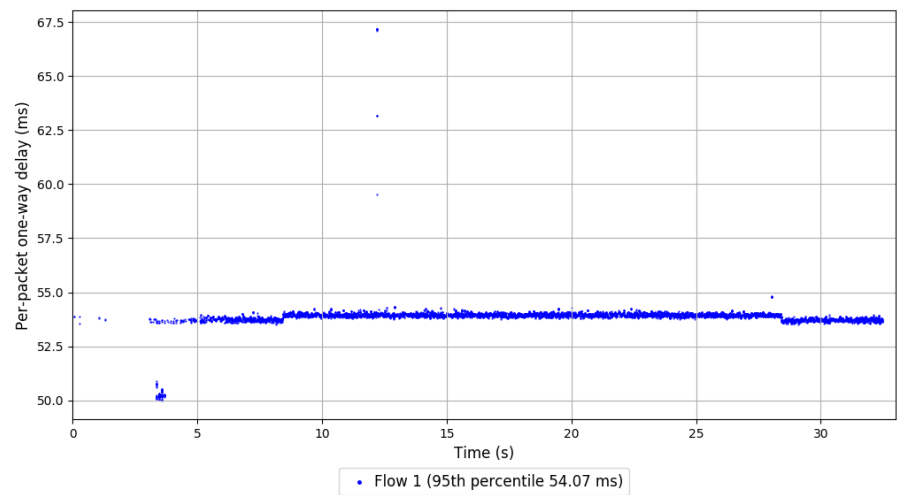
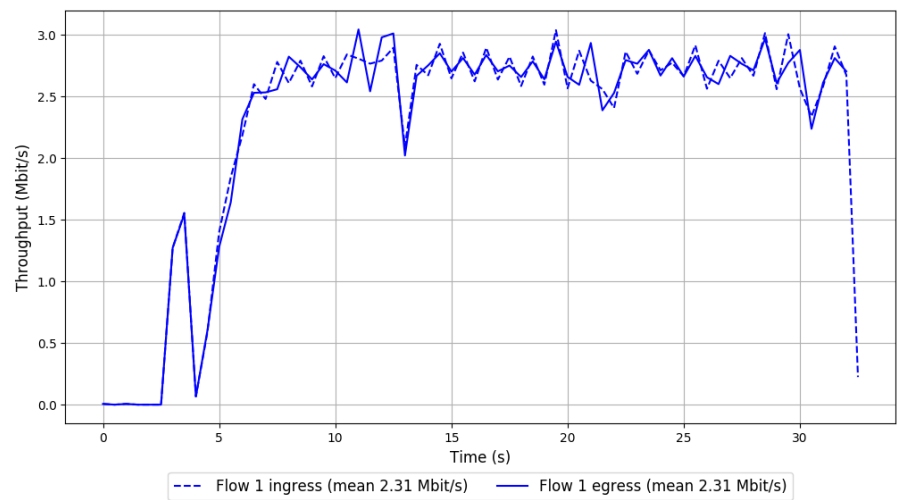
```
Run 1: Statistics of WebRTC media

Start at: 2018-03-13 03:36:22
End at: 2018-03-13 03:36:52

# Below is generated by plot.py at 2018-03-13 09:05:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 54.074 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 54.074 ms
Loss rate: 0.33%
```



Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-13 03:50:39

End at: 2018-03-13 03:51:09

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.939 ms

Loss rate: 0.29%

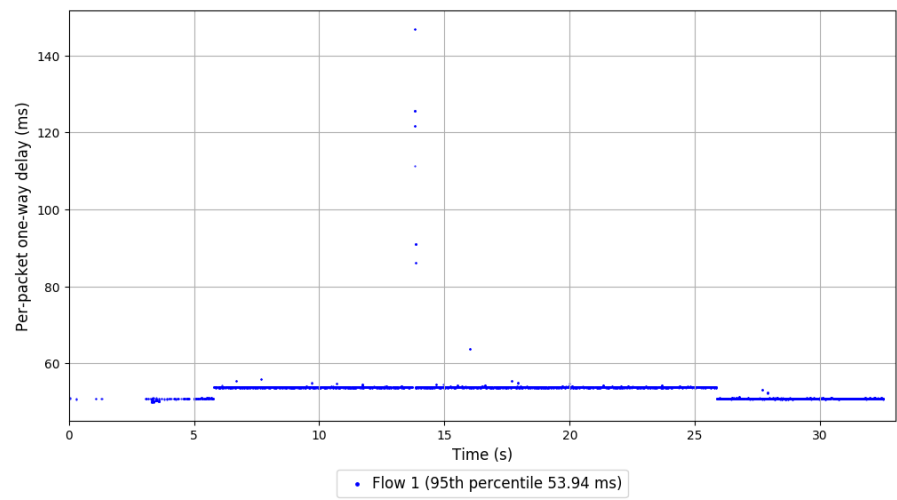
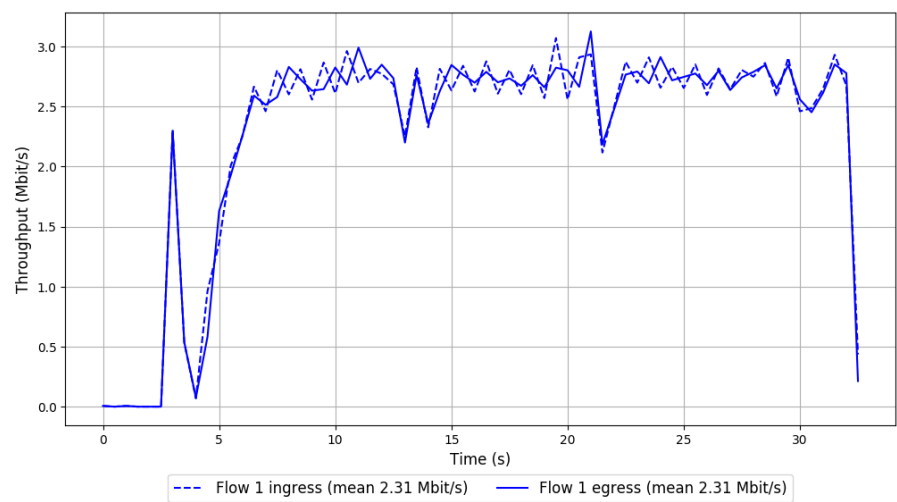
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.939 ms

Loss rate: 0.29%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-13 04:05:04

End at: 2018-03-13 04:05:34

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 54.708 ms

Loss rate: 0.39%

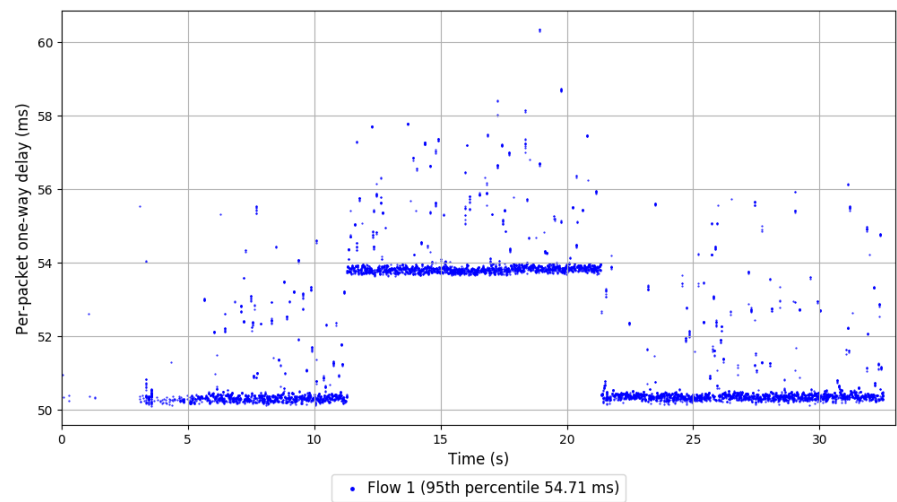
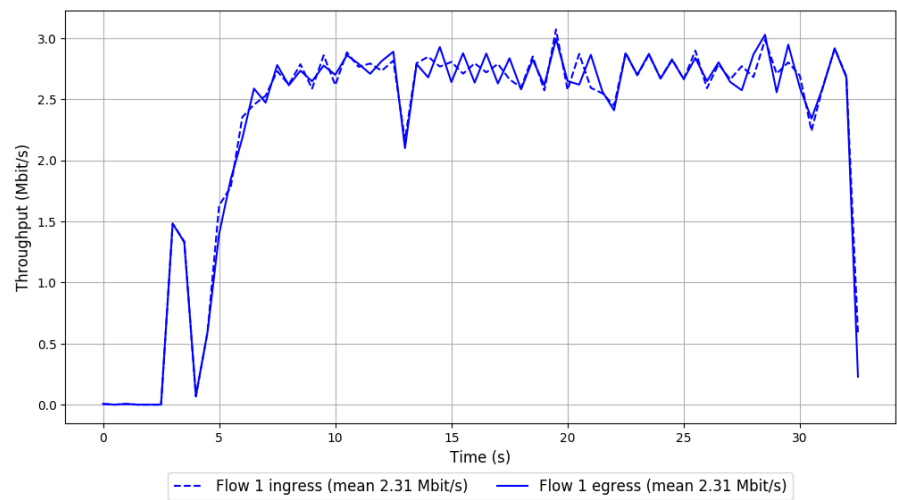
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 54.708 ms

Loss rate: 0.39%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-13 04:19:07

End at: 2018-03-13 04:19:37

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.056 ms

Loss rate: 0.34%

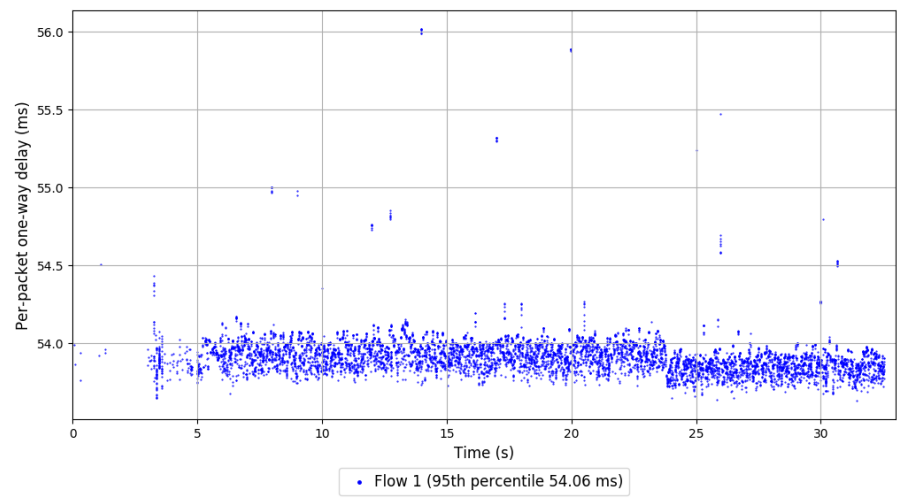
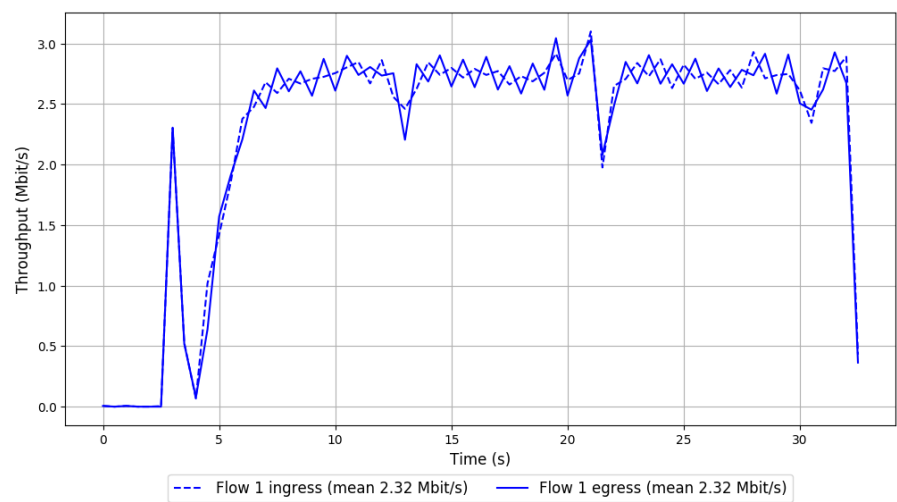
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.056 ms

Loss rate: 0.34%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

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

End at: 2018-03-13 04:34:03

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.29%

-- Flow 1:

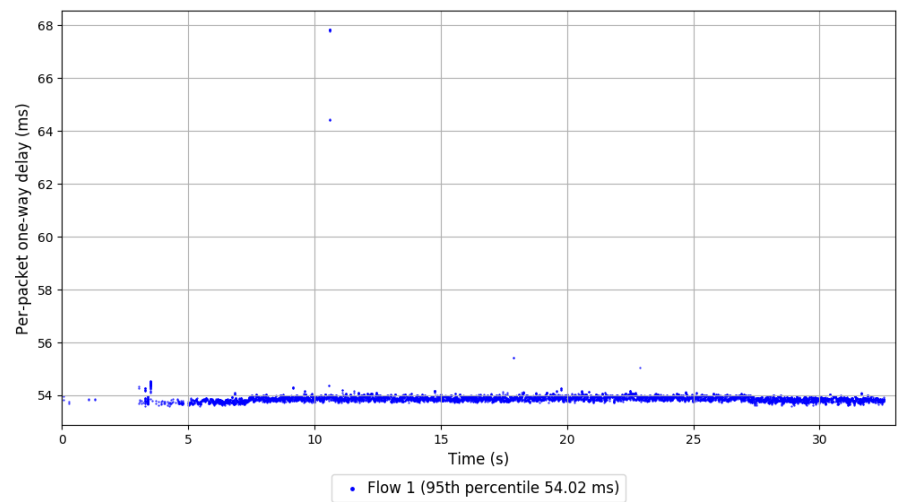
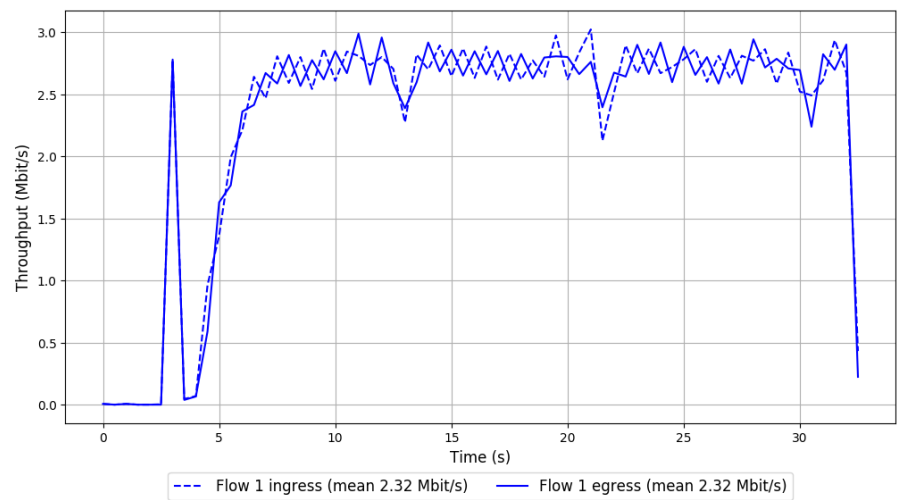
Average throughput: 2.32 Mbit/s

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

Loss rate: 0.29%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-13 04:48:06

End at: 2018-03-13 04:48:36

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 54.028 ms

Loss rate: 0.33%

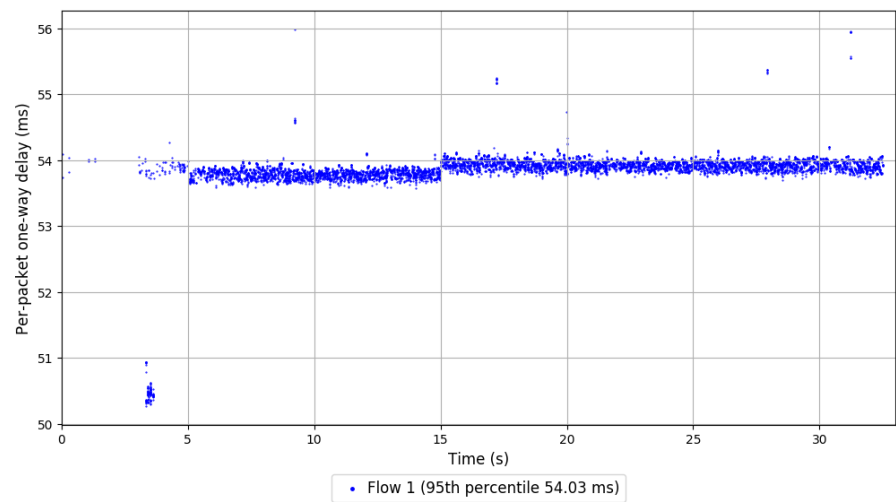
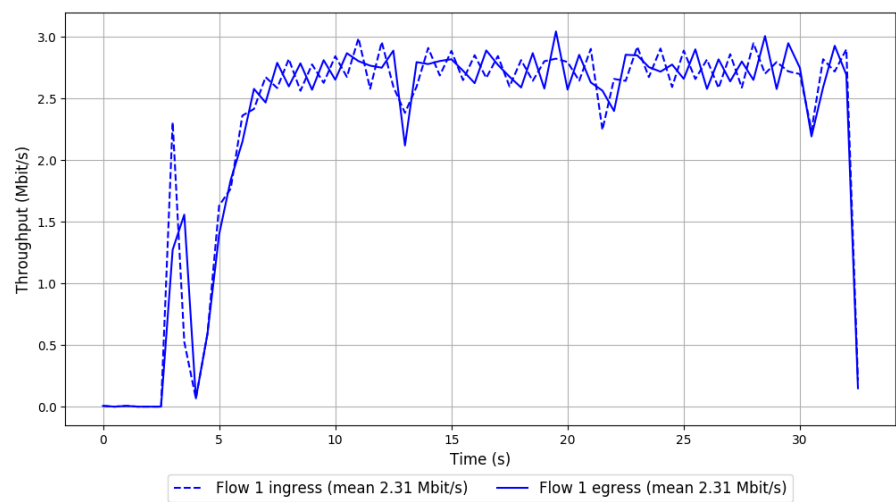
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 54.028 ms

Loss rate: 0.33%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-13 05:02:20

End at: 2018-03-13 05:02:50

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.046 ms

Loss rate: 0.38%

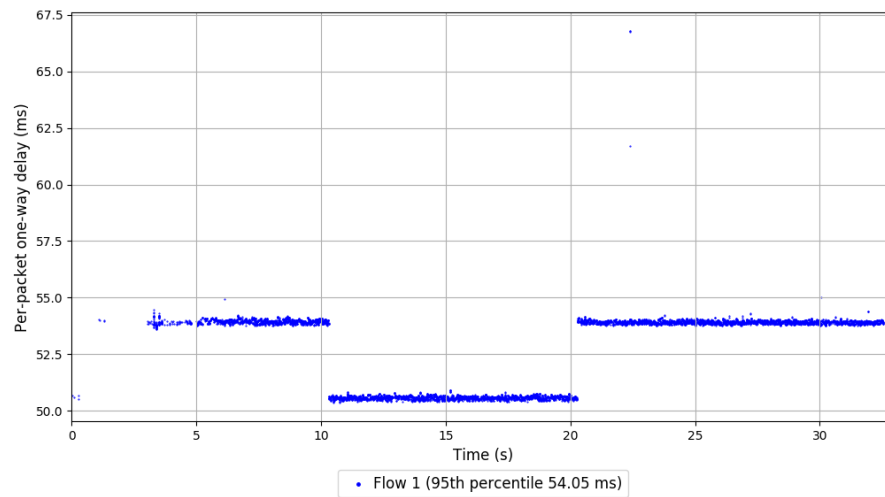
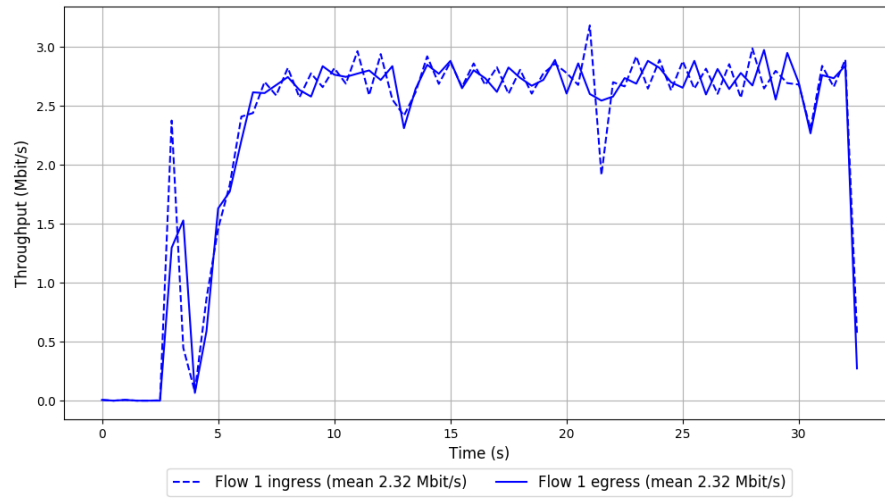
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.046 ms

Loss rate: 0.38%

### Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-13 05:16:55

End at: 2018-03-13 05:17:25

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.28%

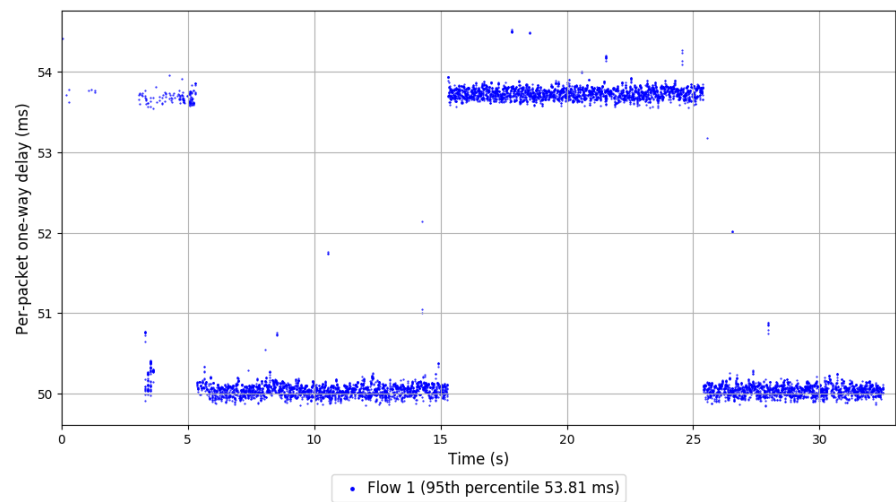
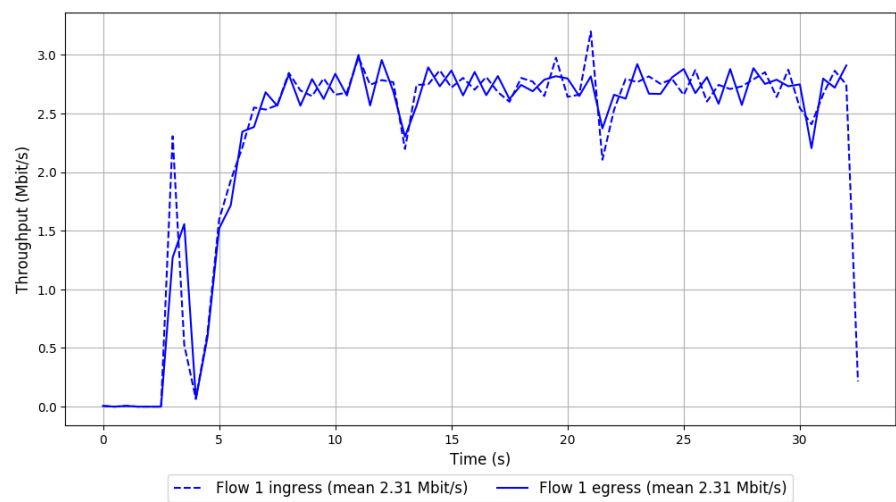
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.28%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-13 05:31:20

End at: 2018-03-13 05:31:50

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.43%

-- Flow 1:

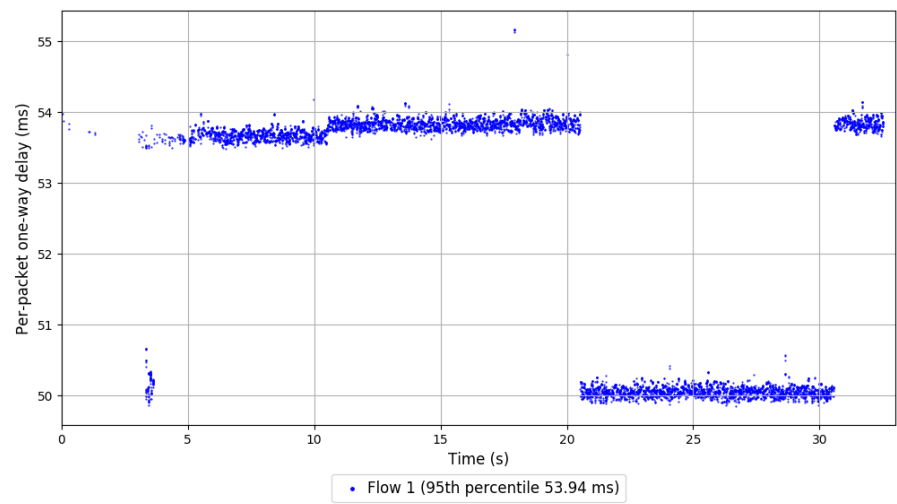
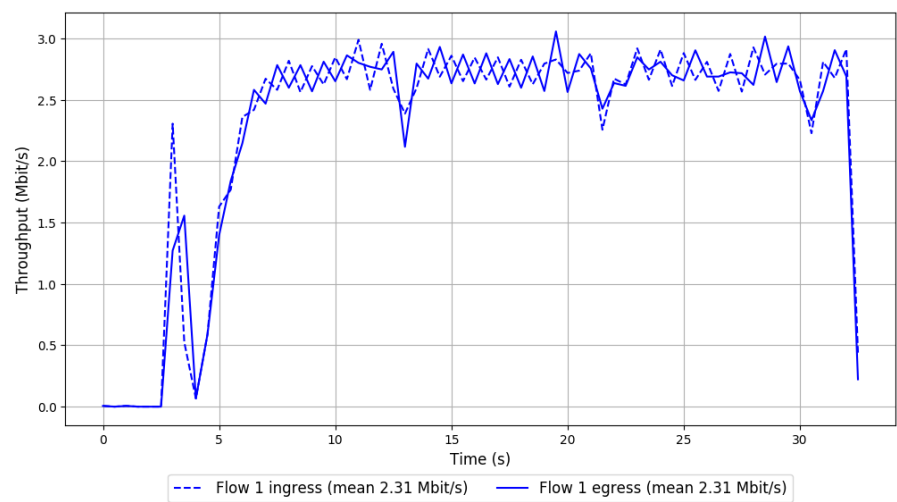
Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.43%



Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-13 05:45:37

End at: 2018-03-13 05:46:07

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.254 ms

Loss rate: 0.29%

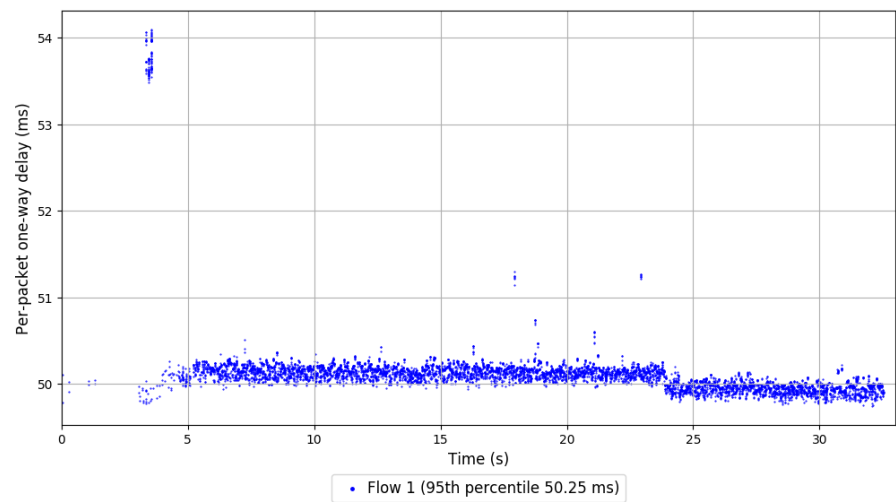
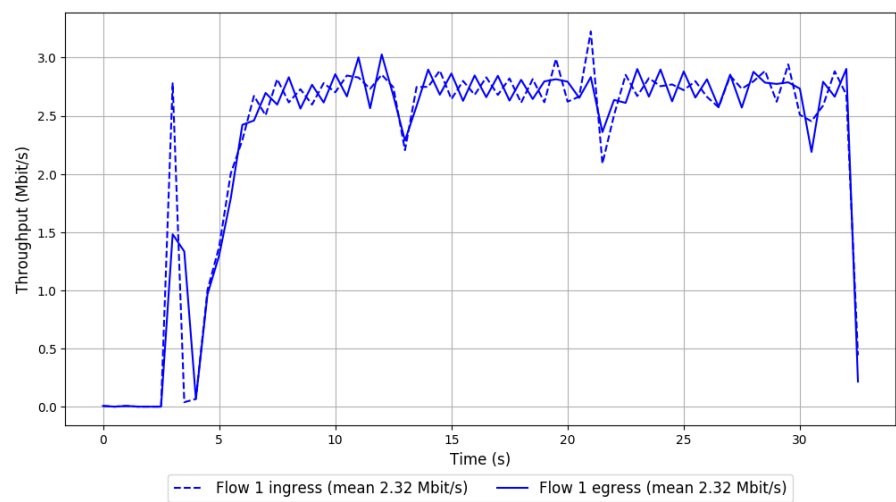
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 50.254 ms

Loss rate: 0.29%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-13 03:44:38

End at: 2018-03-13 03:45:08

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 54.473 ms

Loss rate: 0.44%

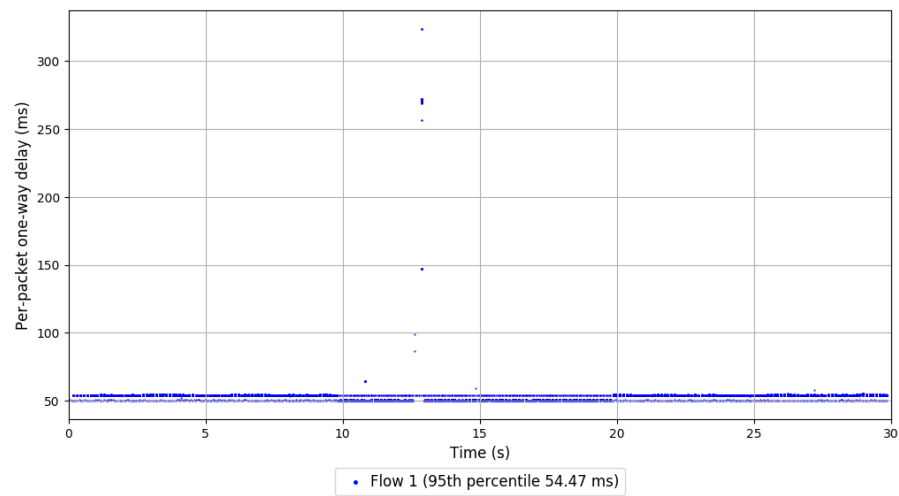
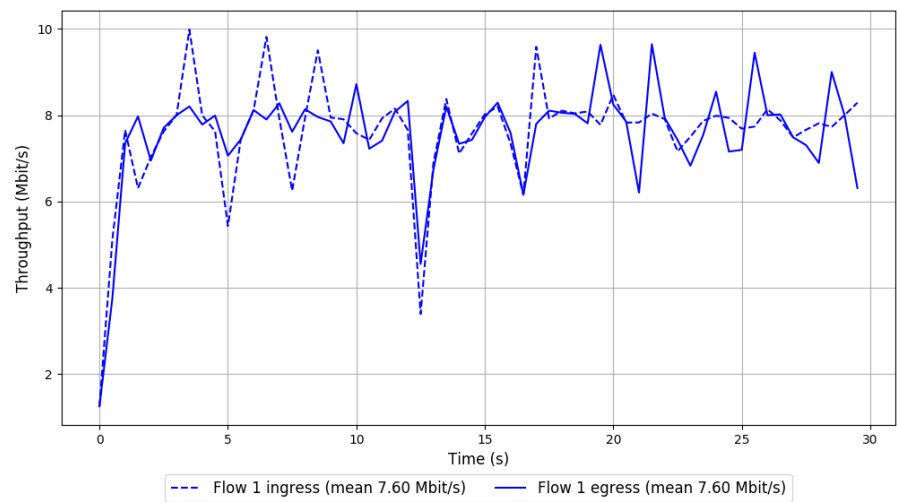
-- Flow 1:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 54.473 ms

Loss rate: 0.44%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-13 03:59:08

End at: 2018-03-13 03:59:38

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.496 ms

Loss rate: 0.10%

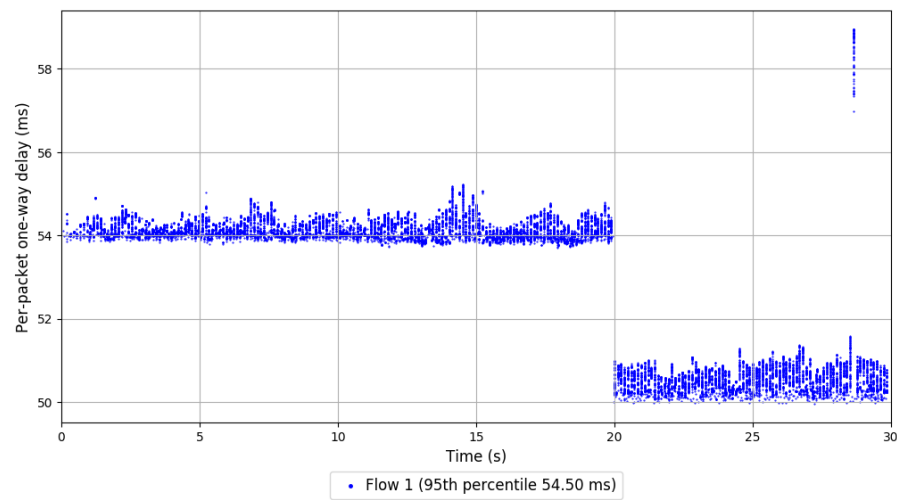
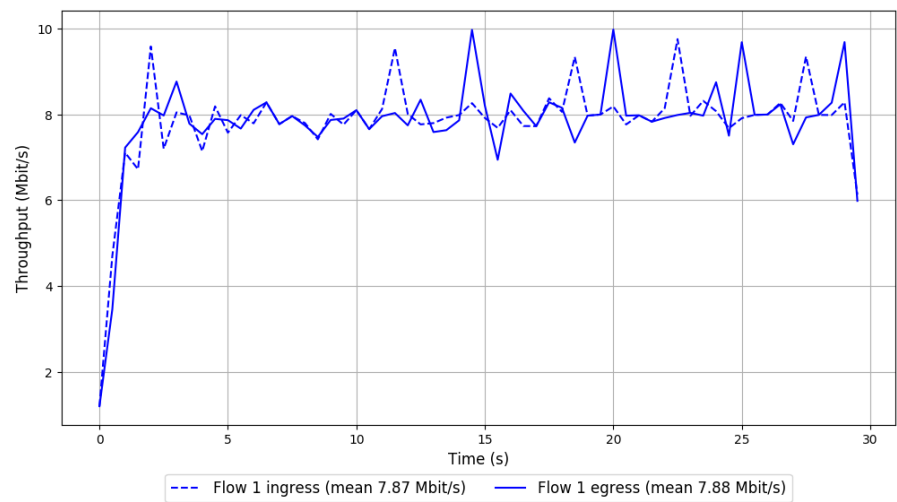
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.496 ms

Loss rate: 0.10%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

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

End at: 2018-03-13 04:13:53

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.547 ms

Loss rate: 0.50%

-- Flow 1:

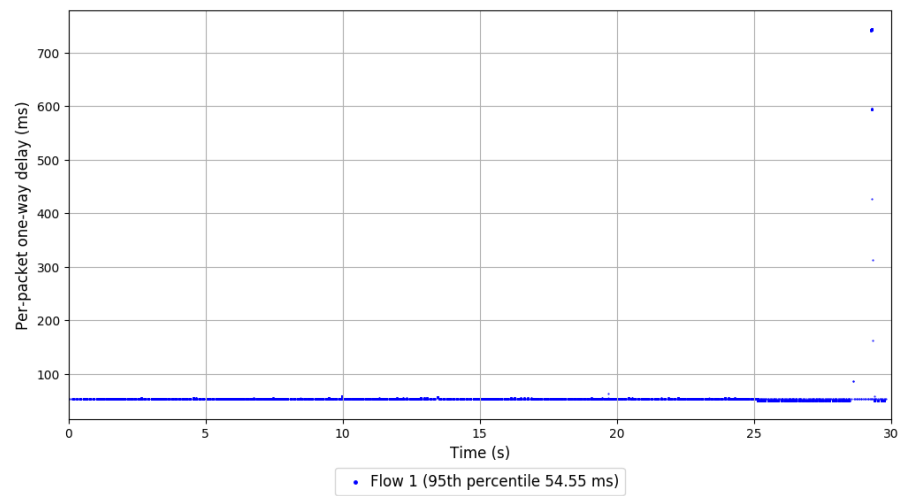
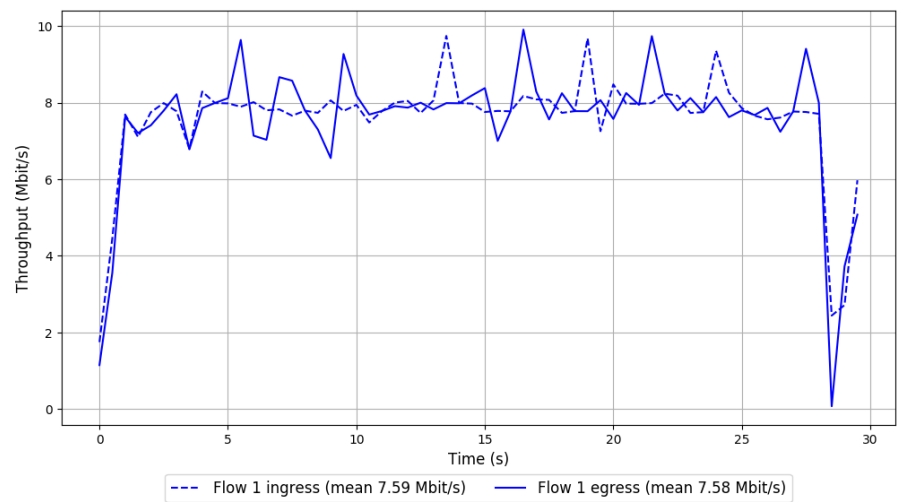
Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.547 ms

Loss rate: 0.50%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-13 04:27:30

End at: 2018-03-13 04:28:00

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 53.926 ms

Loss rate: 0.42%

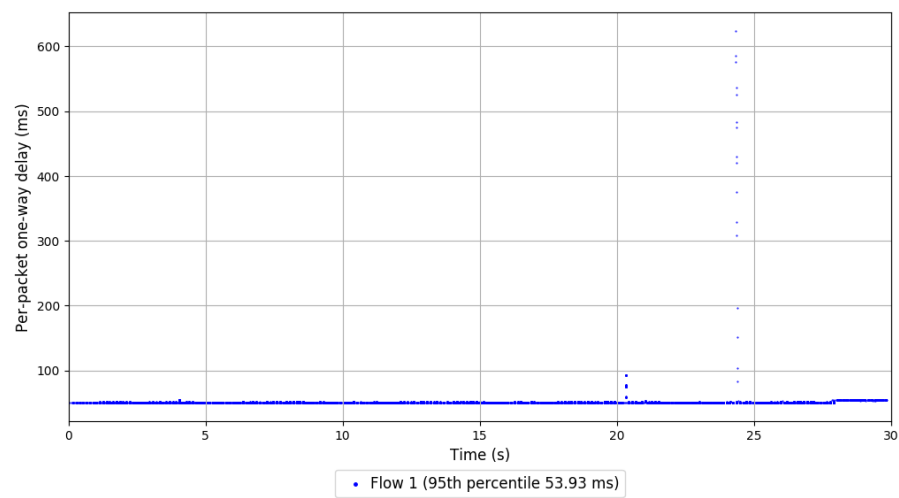
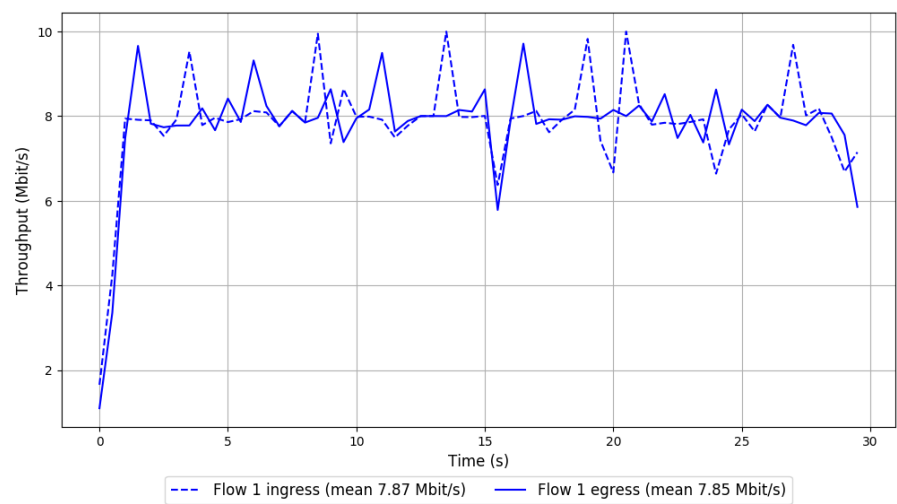
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 53.926 ms

Loss rate: 0.42%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-13 04:42:07

End at: 2018-03-13 04:42:37

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.135 ms

Loss rate: 0.40%

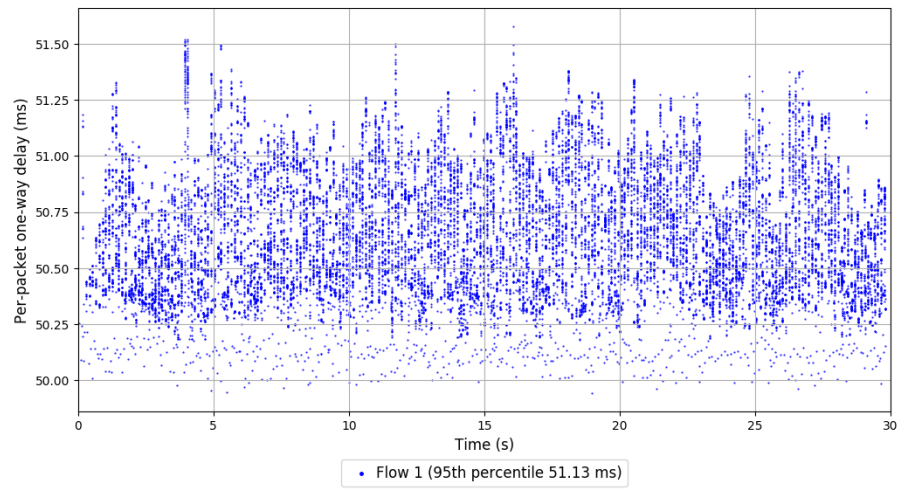
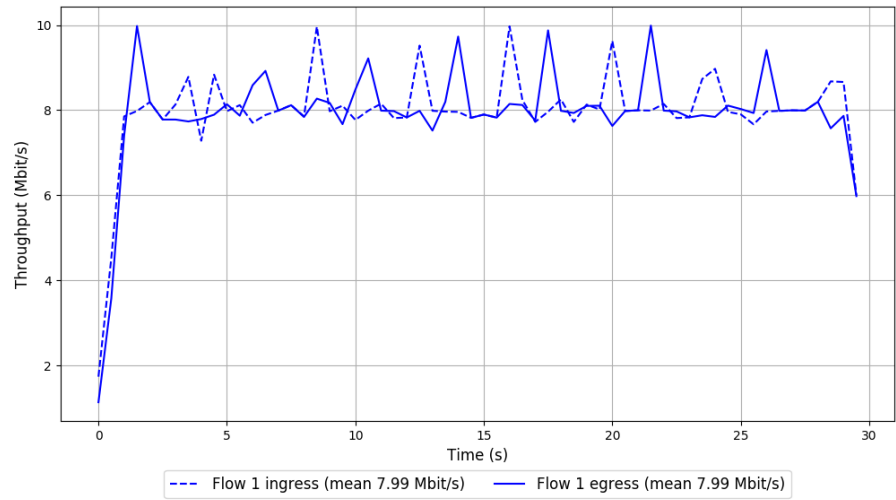
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.135 ms

Loss rate: 0.40%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-13 04:56:29

End at: 2018-03-13 04:56:59

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.377 ms

Loss rate: 0.48%

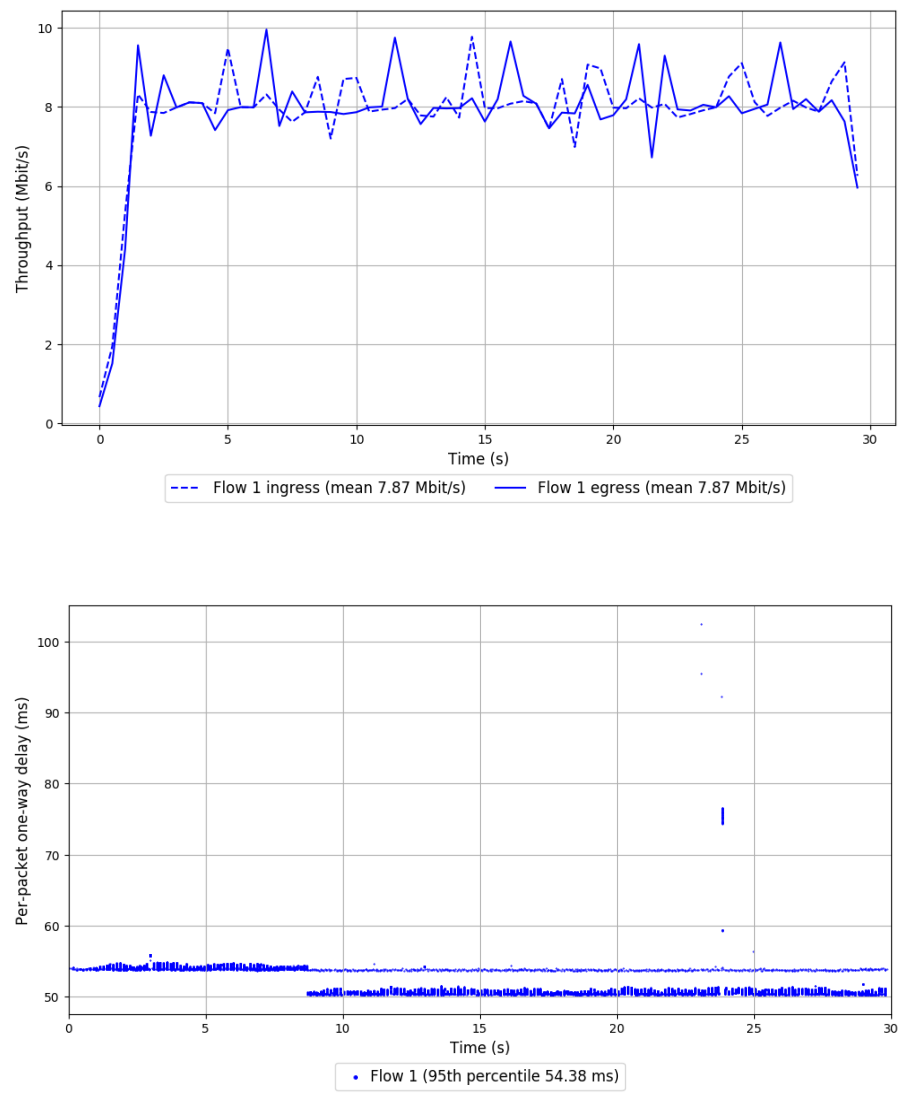
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.377 ms

Loss rate: 0.48%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-13 05:10:58

End at: 2018-03-13 05:11:28

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 54.344 ms

Loss rate: 0.39%

-- Flow 1:

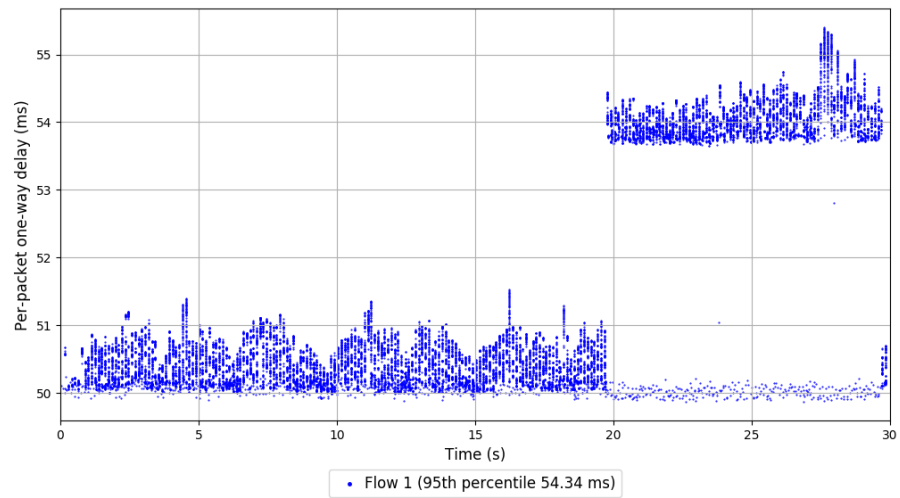
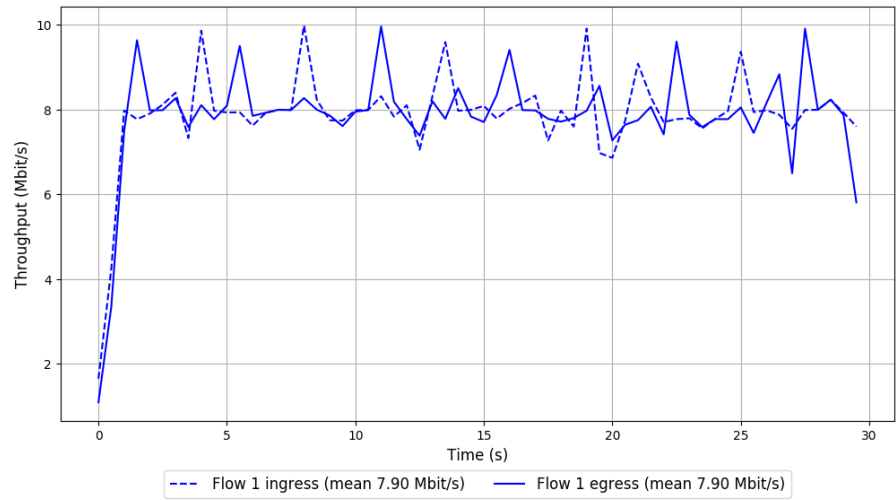
Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 54.344 ms

Loss rate: 0.39%



## Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-13 05:25:27

End at: 2018-03-13 05:25:57

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.514 ms

Loss rate: 0.42%

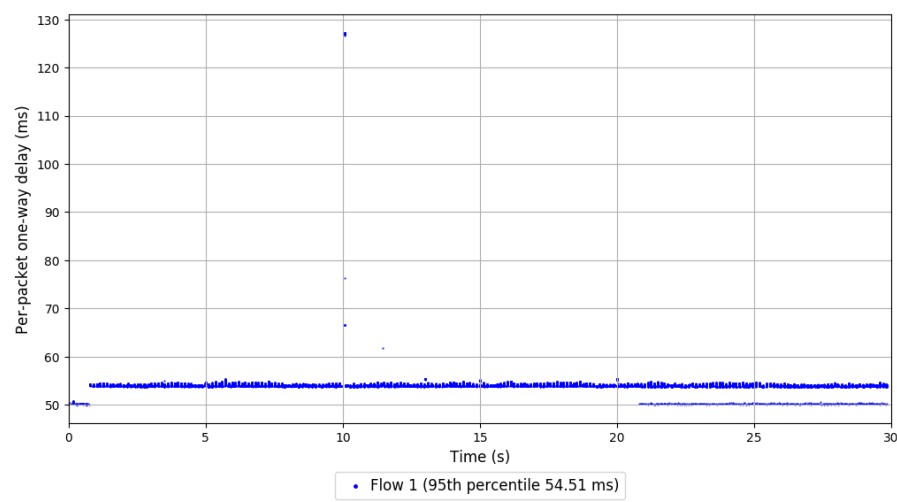
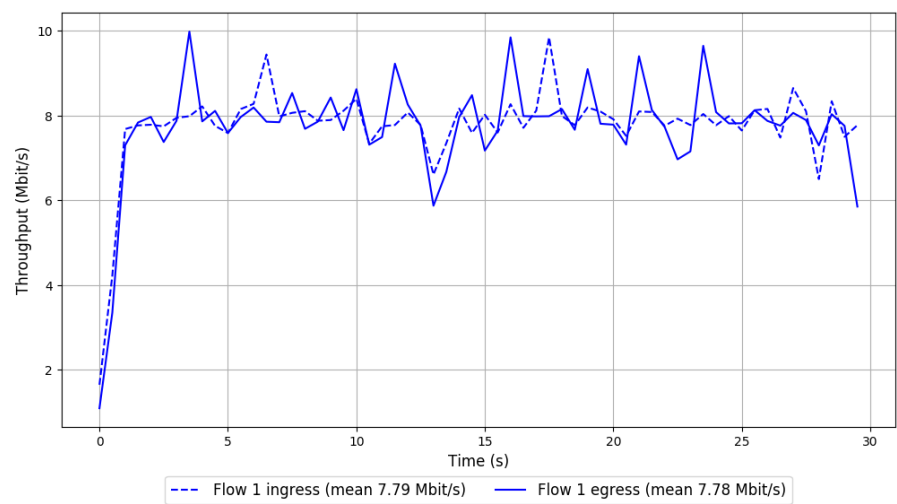
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.514 ms

Loss rate: 0.42%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-13 05:39:51

End at: 2018-03-13 05:40:21

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.441 ms

Loss rate: 0.32%

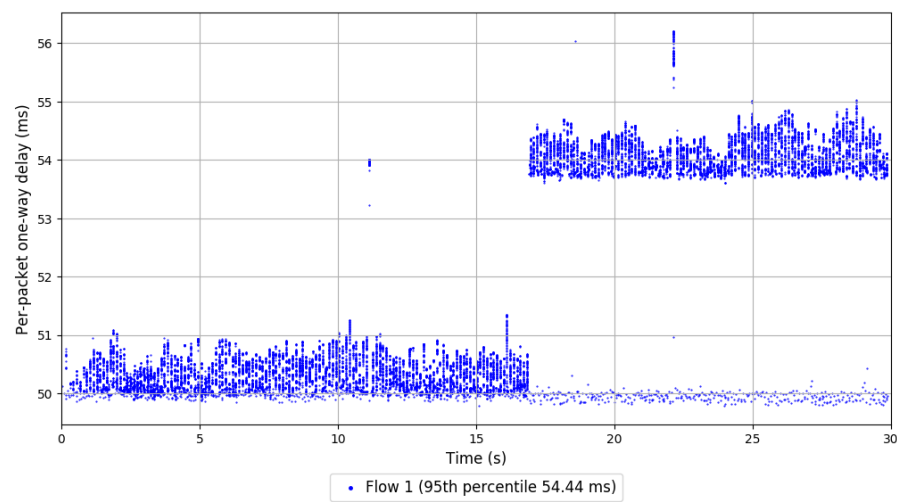
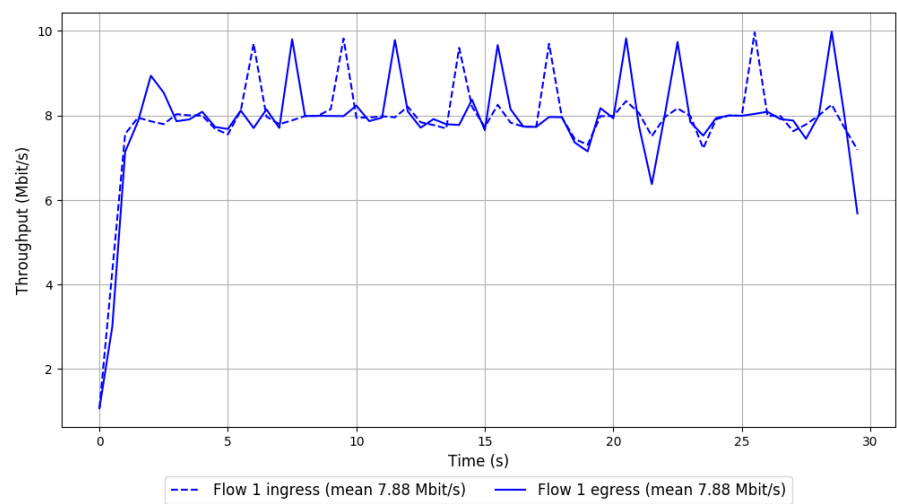
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.441 ms

Loss rate: 0.32%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-13 05:54:11

End at: 2018-03-13 05:54:41

# Below is generated by plot.py at 2018-03-13 09:05:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 0.12%

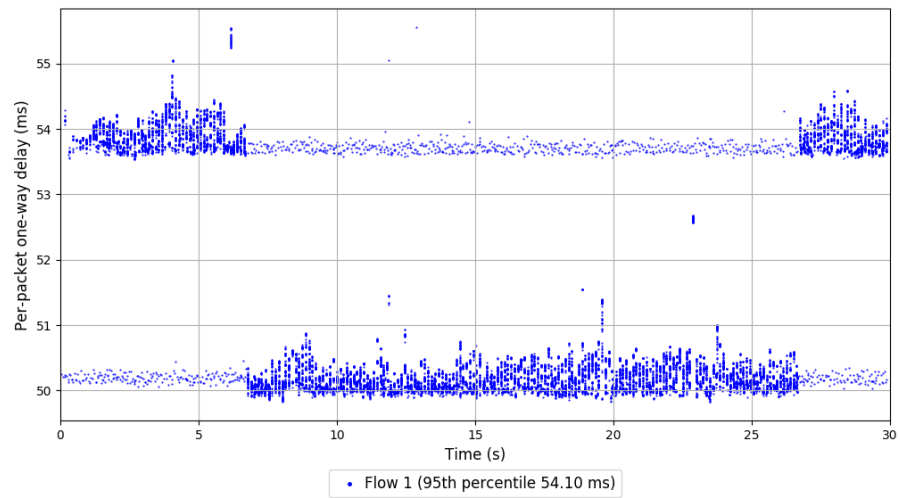
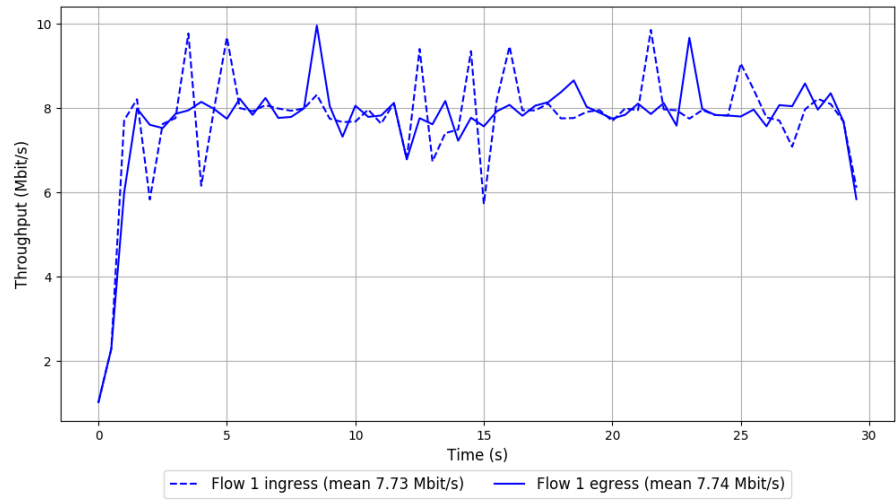
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 0.12%

# Run 10: Report of Sprout — Data Link



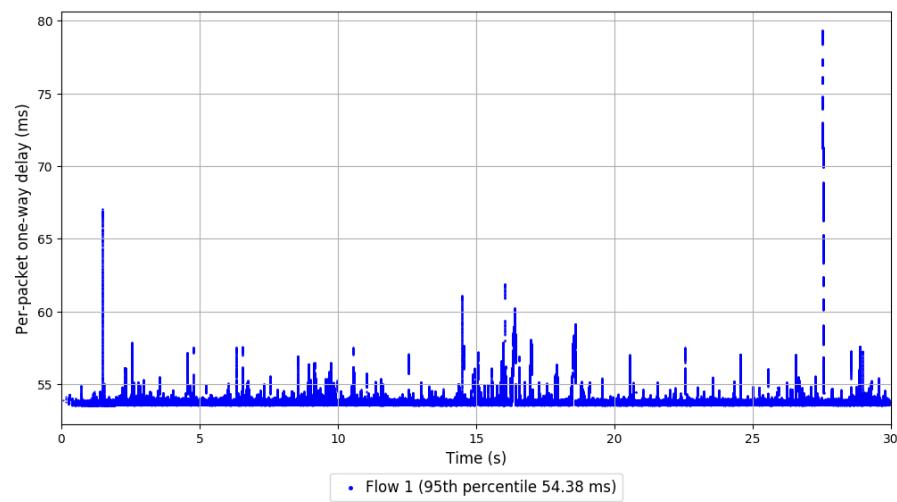
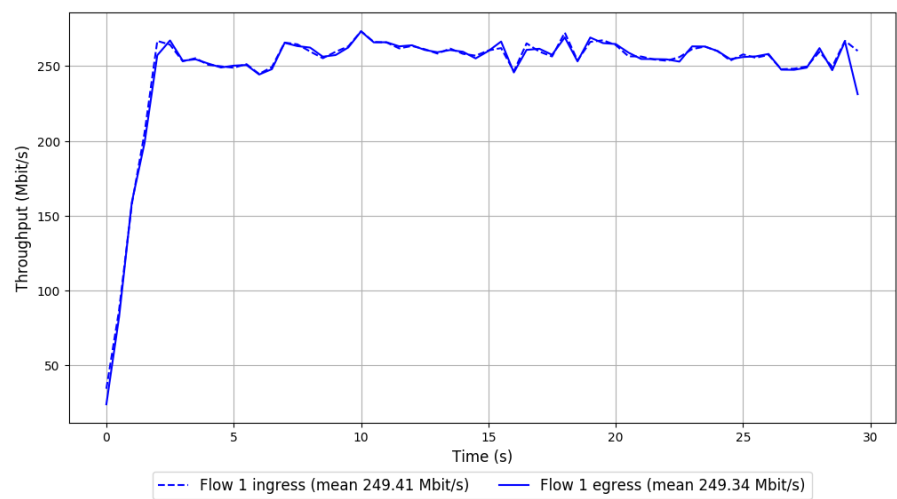
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-13 03:46:52
End at: 2018-03-13 03:47:22

# Below is generated by plot.py at 2018-03-13 09:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 249.34 Mbit/s
95th percentile per-packet one-way delay: 54.375 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 249.34 Mbit/s
95th percentile per-packet one-way delay: 54.375 ms
Loss rate: 0.39%
```



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

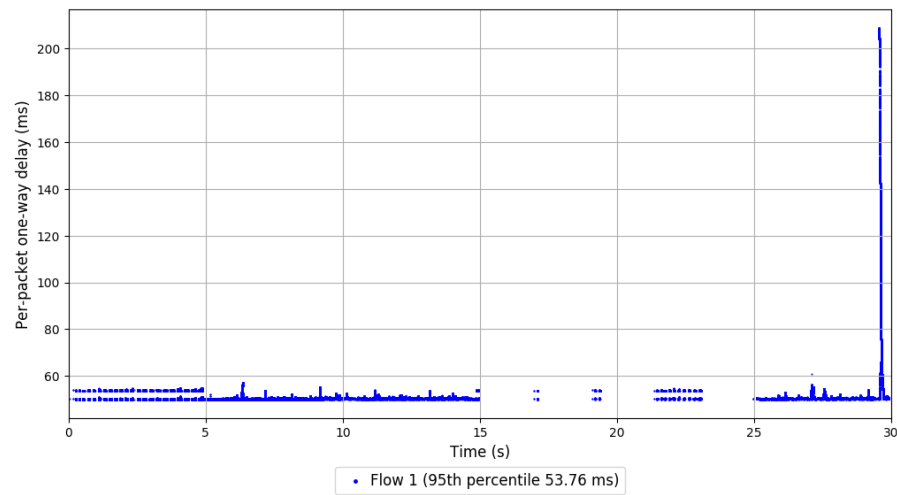
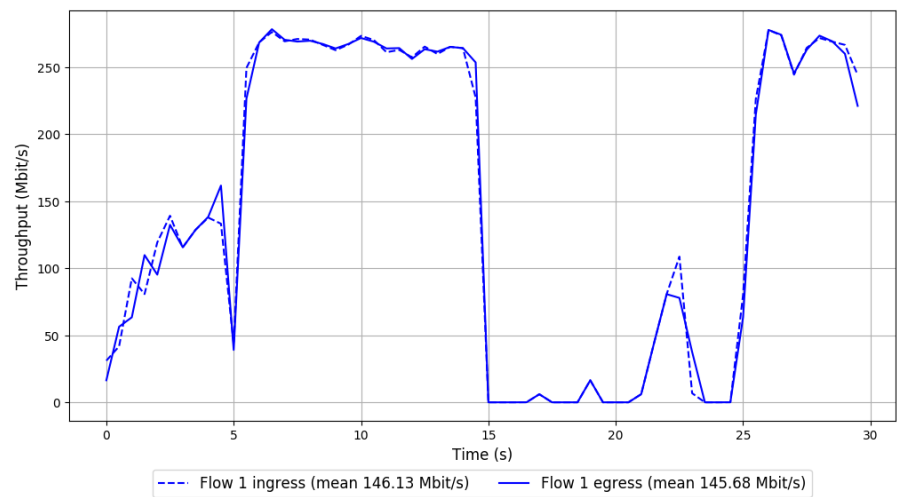


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-13 04:01:23
End at: 2018-03-13 04:01:53

# Below is generated by plot.py at 2018-03-13 09:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.68 Mbit/s
95th percentile per-packet one-way delay: 53.759 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 145.68 Mbit/s
95th percentile per-packet one-way delay: 53.759 ms
Loss rate: 0.64%
```

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

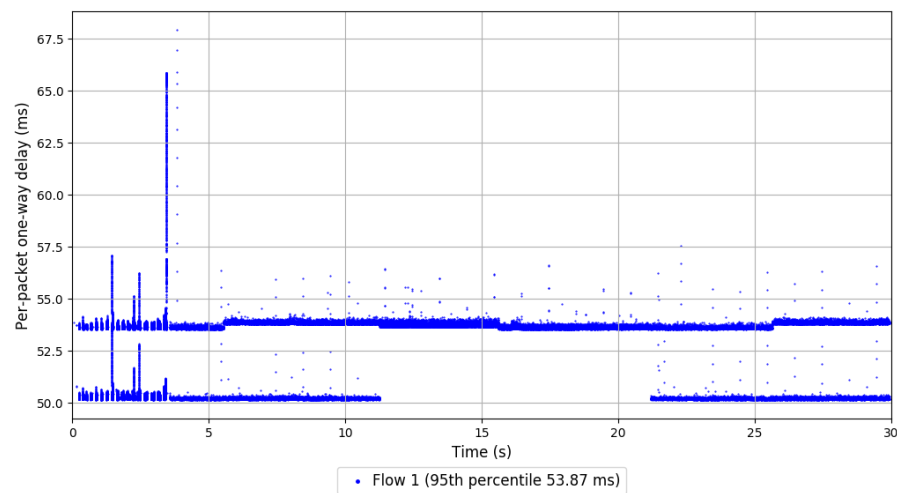
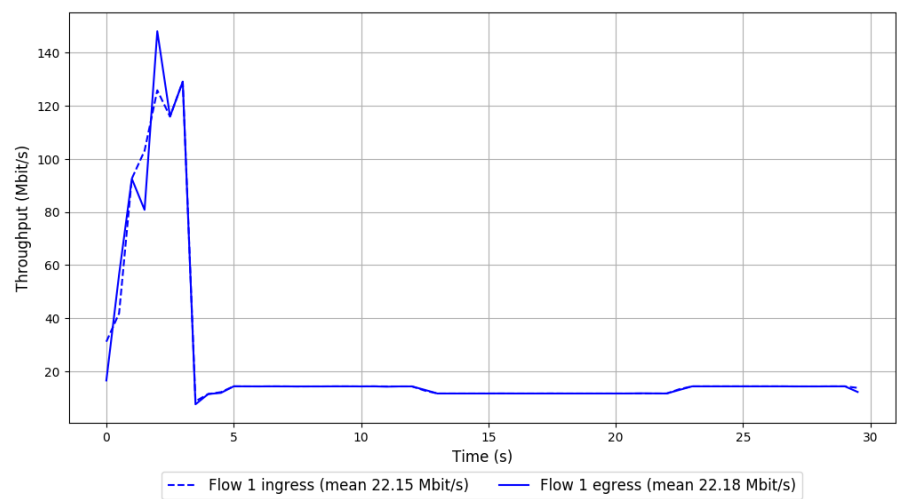


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-03-13 04:15:37
End at: 2018-03-13 04:16:07

# Below is generated by plot.py at 2018-03-13 09:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.18 Mbit/s
95th percentile per-packet one-way delay: 53.871 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 22.18 Mbit/s
95th percentile per-packet one-way delay: 53.871 ms
Loss rate: 0.23%
```

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

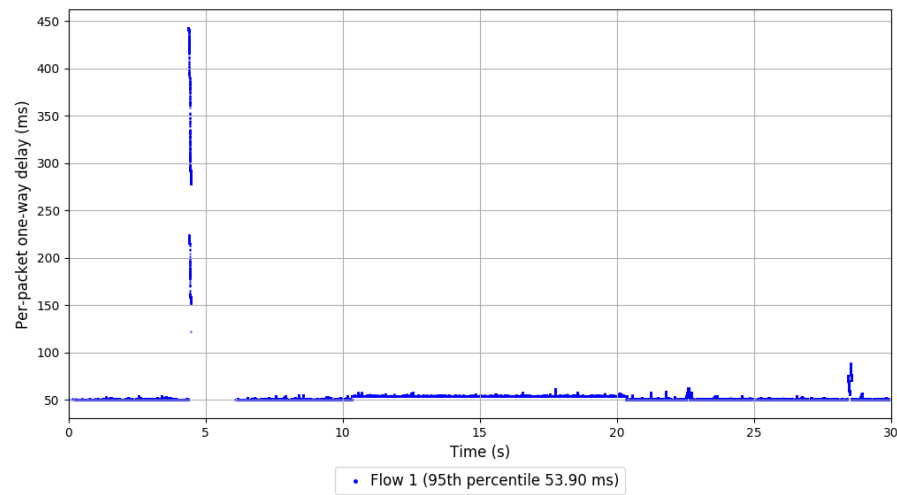
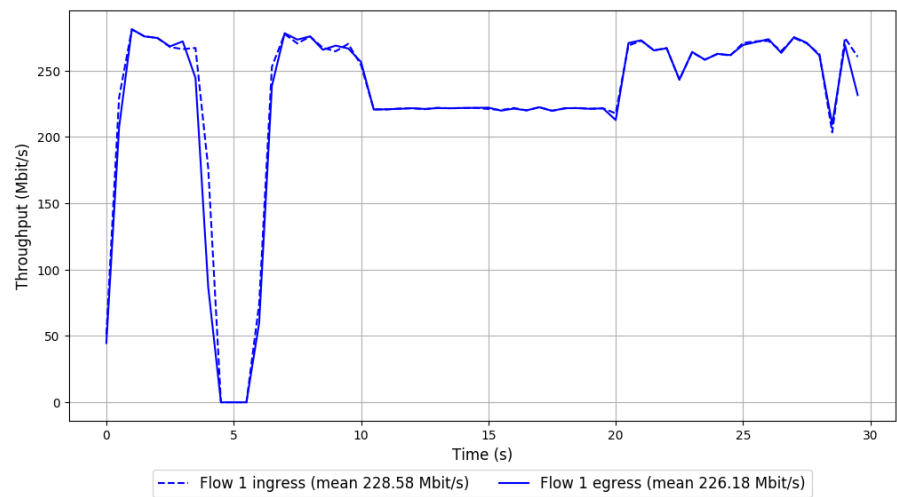


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-03-13 04:29:48
End at: 2018-03-13 04:30:18

# Below is generated by plot.py at 2018-03-13 09:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.18 Mbit/s
95th percentile per-packet one-way delay: 53.896 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 226.18 Mbit/s
95th percentile per-packet one-way delay: 53.896 ms
Loss rate: 1.40%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-13 04:44:23

End at: 2018-03-13 04:44:53

# Below is generated by plot.py at 2018-03-13 09:07:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 144.87 Mbit/s

95th percentile per-packet one-way delay: 53.842 ms

Loss rate: 0.00%

-- Flow 1:

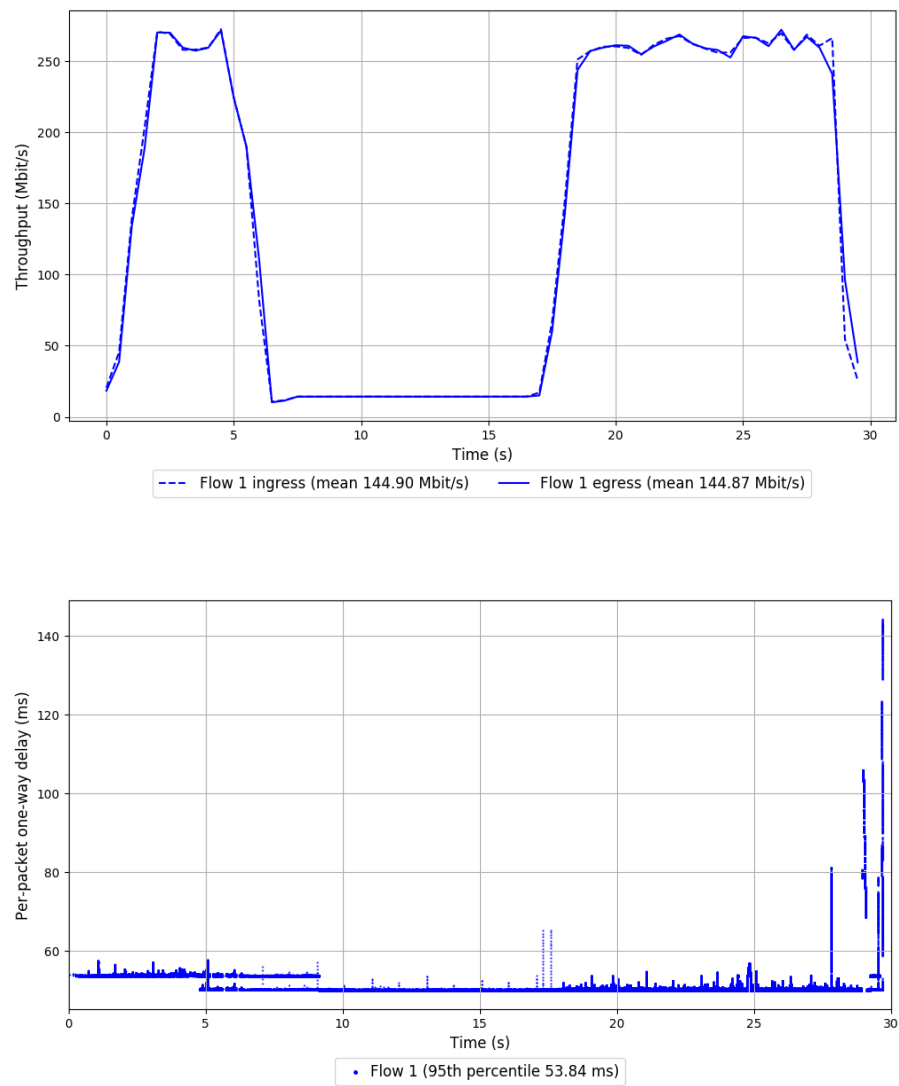
Average throughput: 144.87 Mbit/s

95th percentile per-packet one-way delay: 53.842 ms

Loss rate: 0.00%



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

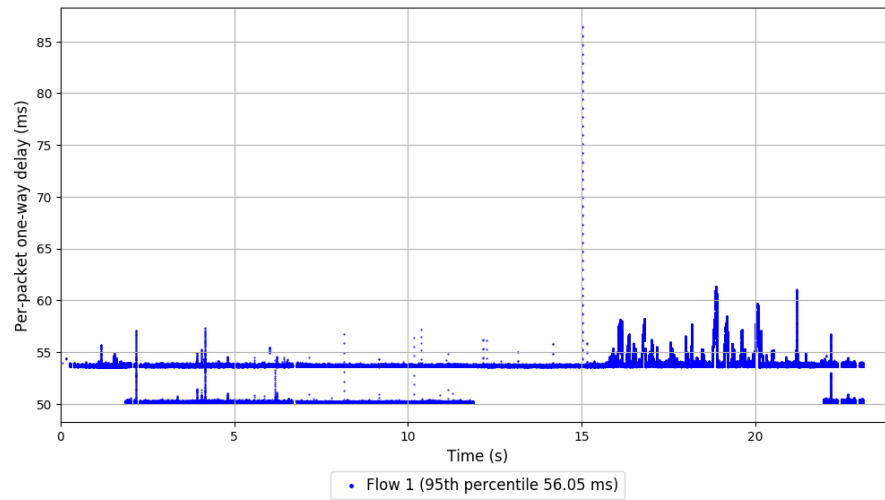
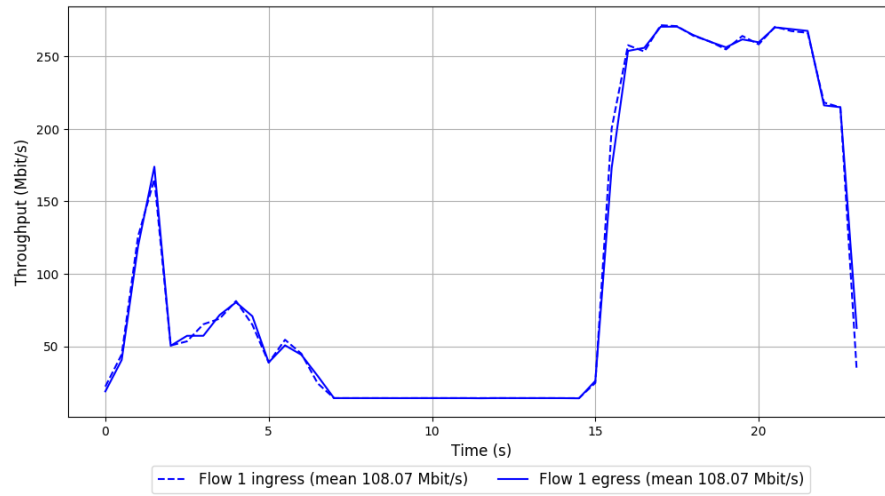


Run 6: Statistics of TaoVA-100x

Start at: 2018-03-13 04:58:46

End at: 2018-03-13 04:59:16

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

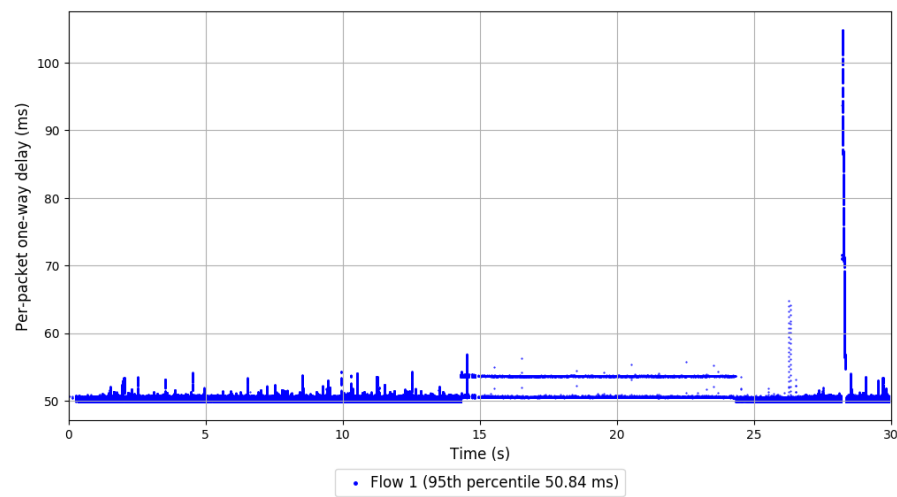
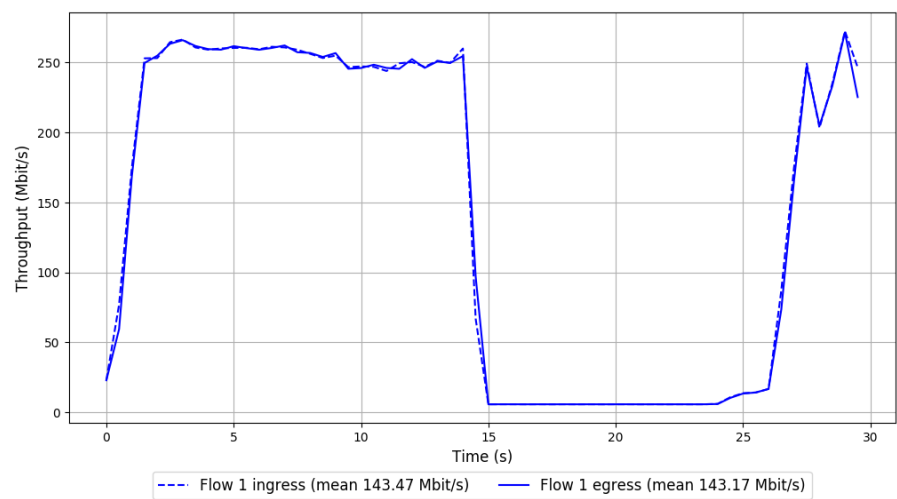


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-03-13 05:13:14
End at: 2018-03-13 05:13:44

# Below is generated by plot.py at 2018-03-13 09:07:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 143.17 Mbit/s
95th percentile per-packet one-way delay: 50.839 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 143.17 Mbit/s
95th percentile per-packet one-way delay: 50.839 ms
Loss rate: 0.57%
```

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

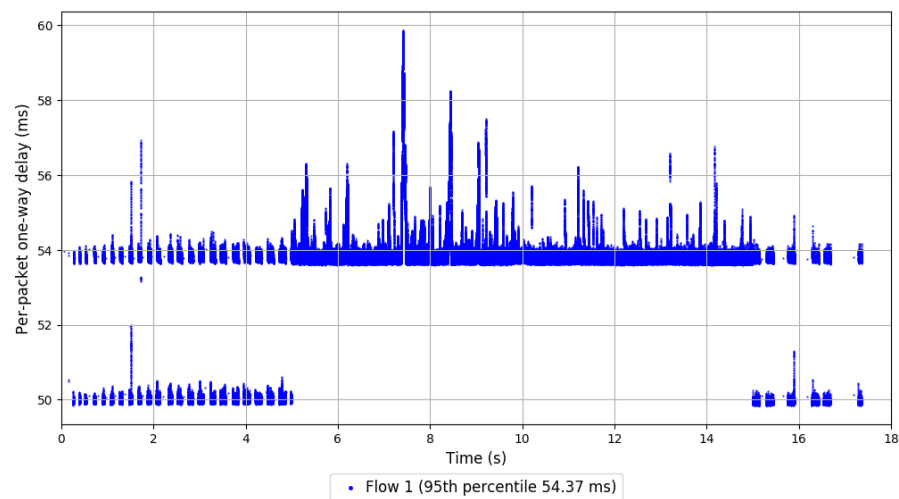
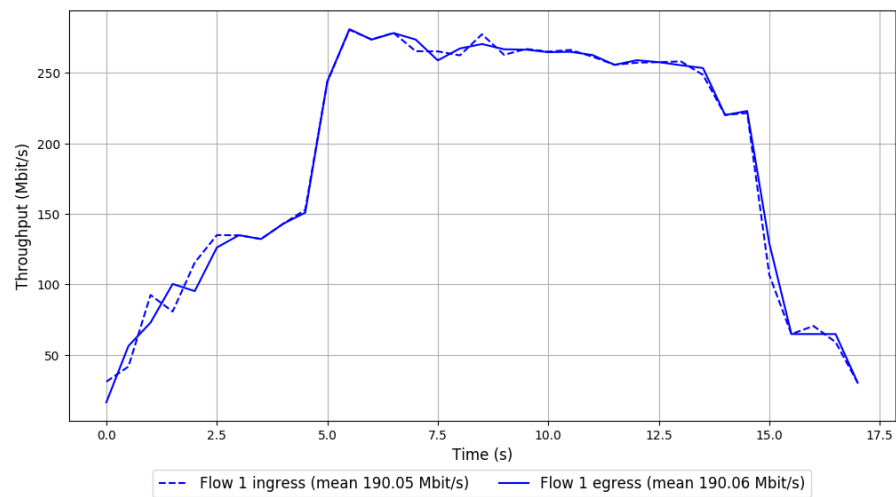


Run 8: Statistics of TaoVA-100x

Start at: 2018-03-13 05:27:43

End at: 2018-03-13 05:28:13

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



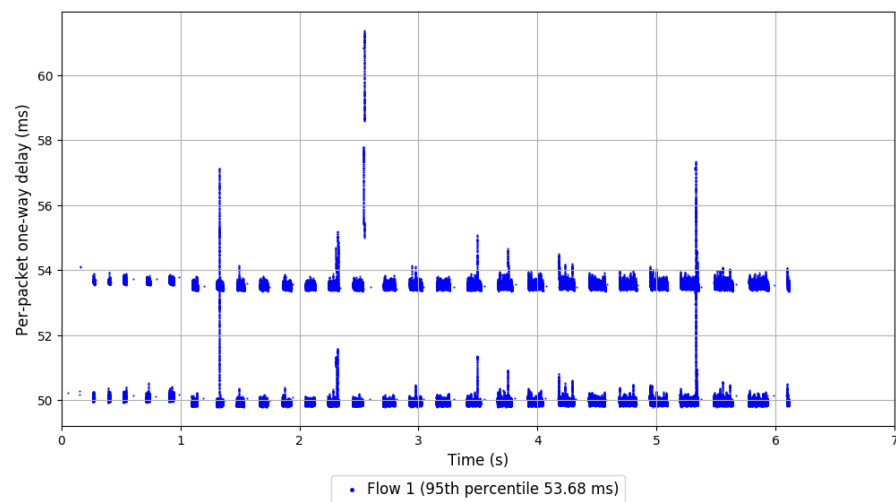
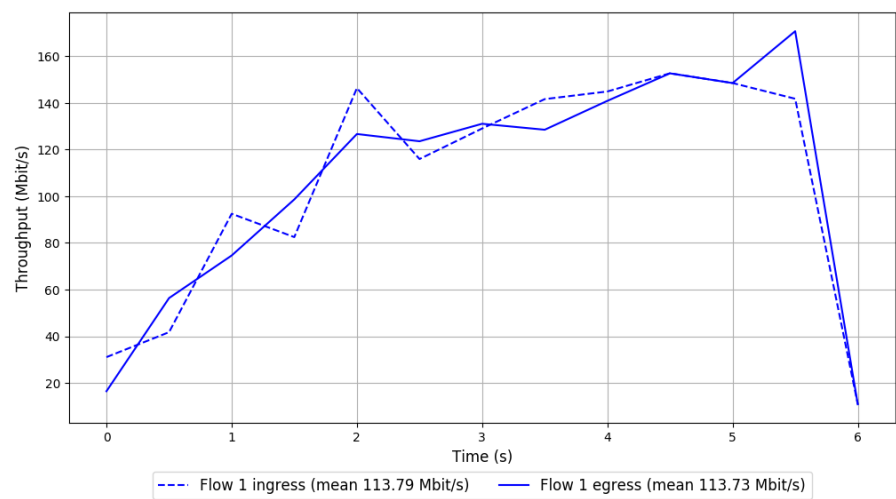
Run 9: Statistics of TaoVA-100x

Start at: 2018-03-13 05:42:07

End at: 2018-03-13 05:42:37



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

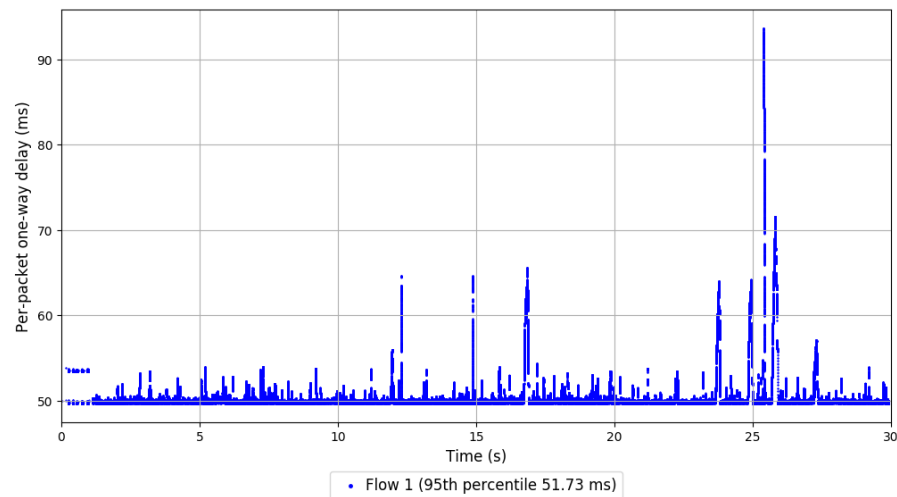
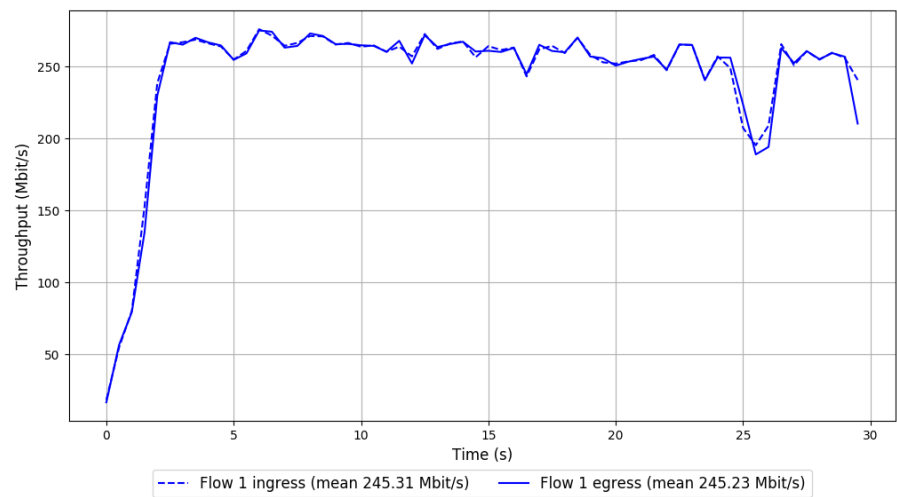


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-13 05:56:27
End at: 2018-03-13 05:56:57

# Below is generated by plot.py at 2018-03-13 09:13:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.23 Mbit/s
95th percentile per-packet one-way delay: 51.730 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 245.23 Mbit/s
95th percentile per-packet one-way delay: 51.730 ms
Loss rate: 0.38%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-13 03:37:00

End at: 2018-03-13 03:37:30

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.41 Mbit/s

95th percentile per-packet one-way delay: 54.101 ms

Loss rate: 0.37%

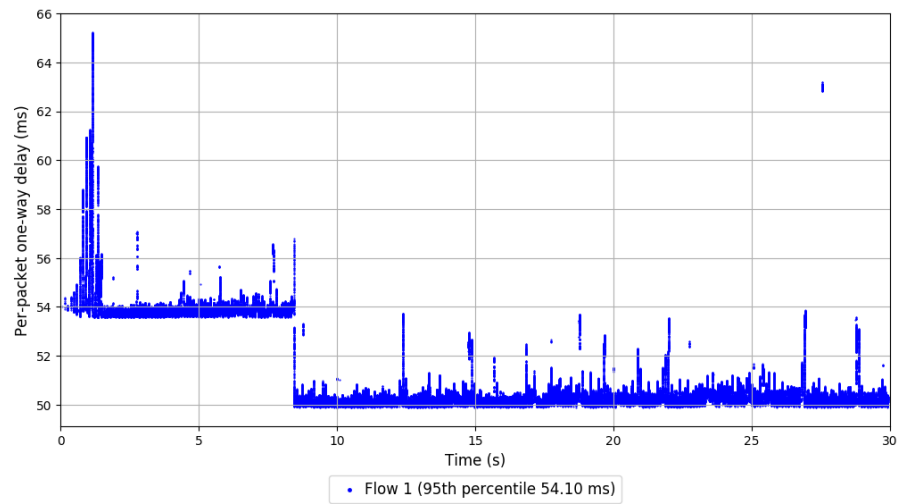
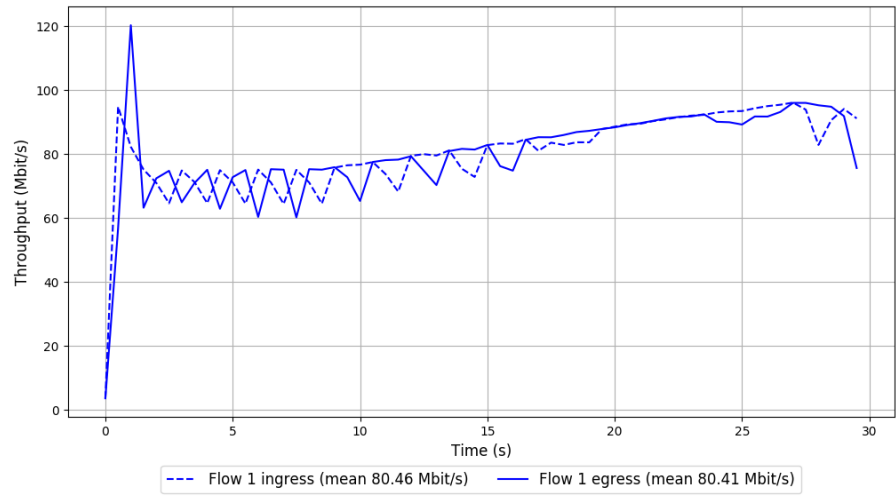
-- Flow 1:

Average throughput: 80.41 Mbit/s

95th percentile per-packet one-way delay: 54.101 ms

Loss rate: 0.37%

### Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-13 03:51:16

End at: 2018-03-13 03:51:46

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 178.39 Mbit/s

95th percentile per-packet one-way delay: 57.581 ms

Loss rate: 0.19%

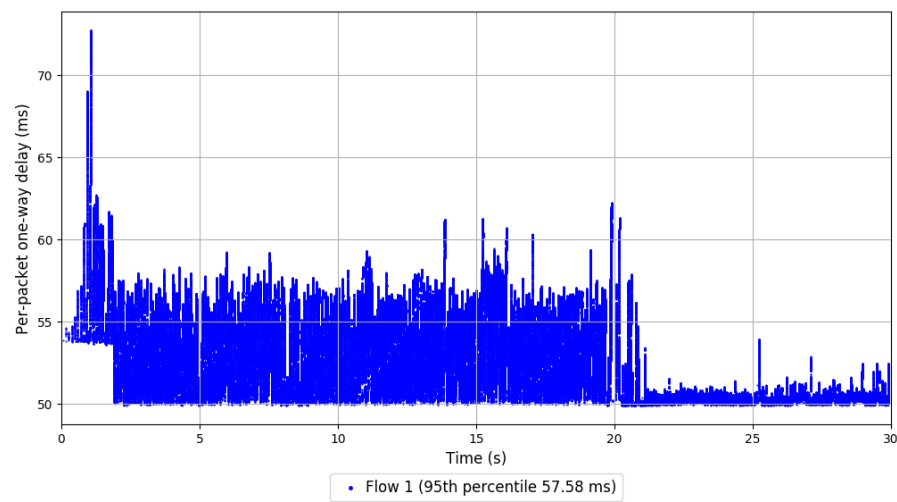
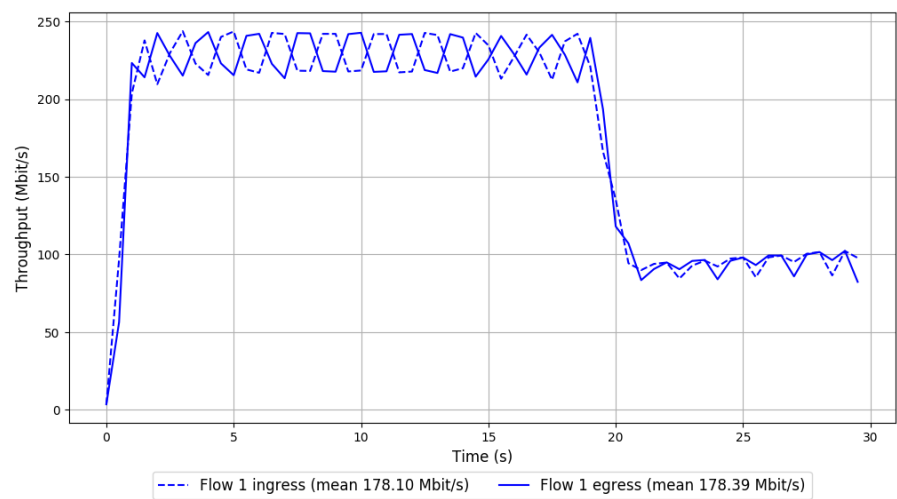
-- Flow 1:

Average throughput: 178.39 Mbit/s

95th percentile per-packet one-way delay: 57.581 ms

Loss rate: 0.19%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-13 04:05:41

End at: 2018-03-13 04:06:11

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 24.10 Mbit/s

95th percentile per-packet one-way delay: 54.728 ms

Loss rate: 0.33%

-- Flow 1:

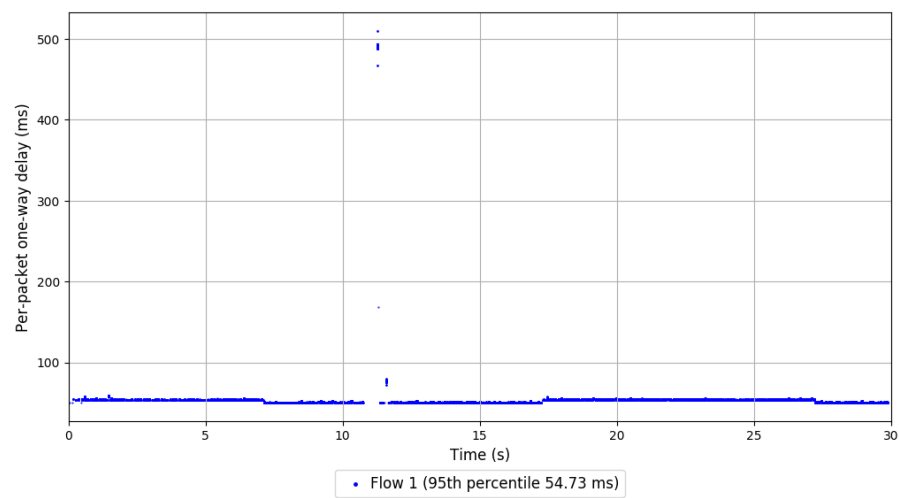
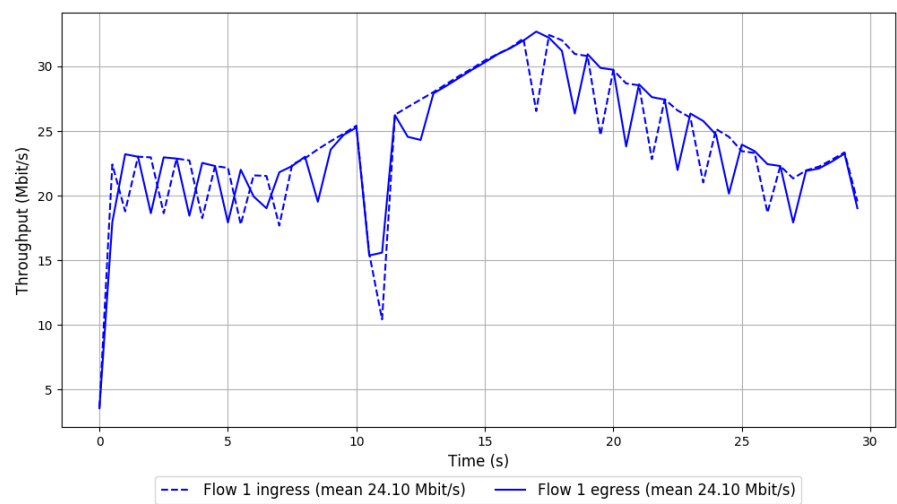
Average throughput: 24.10 Mbit/s

95th percentile per-packet one-way delay: 54.728 ms

Loss rate: 0.33%



Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-13 04:19:44

End at: 2018-03-13 04:20:14

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 110.03 Mbit/s

95th percentile per-packet one-way delay: 61.277 ms

Loss rate: 0.18%

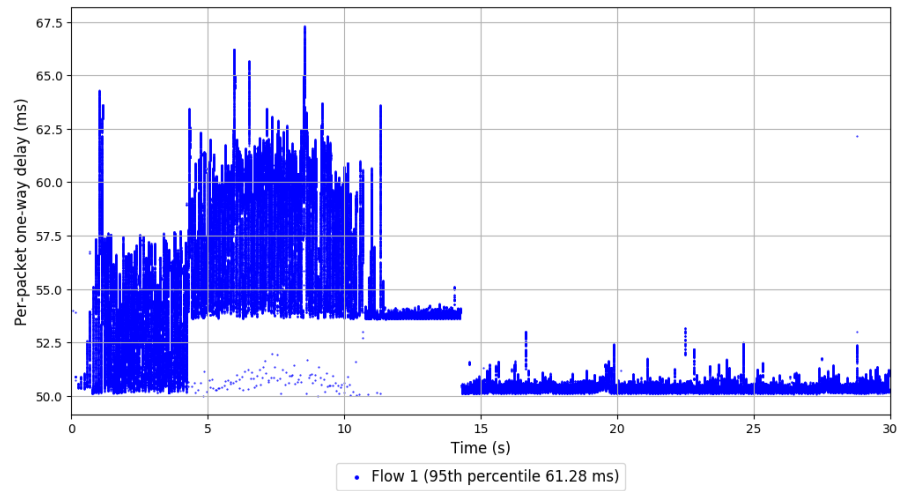
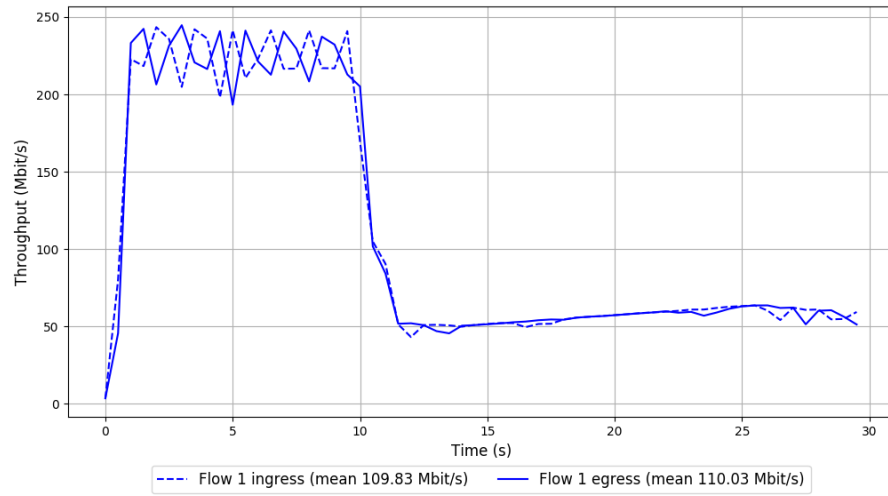
-- Flow 1:

Average throughput: 110.03 Mbit/s

95th percentile per-packet one-way delay: 61.277 ms

Loss rate: 0.18%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-03-13 04:34:10

End at: 2018-03-13 04:34:40

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 111.36 Mbit/s

95th percentile per-packet one-way delay: 54.407 ms

Loss rate: 0.32%

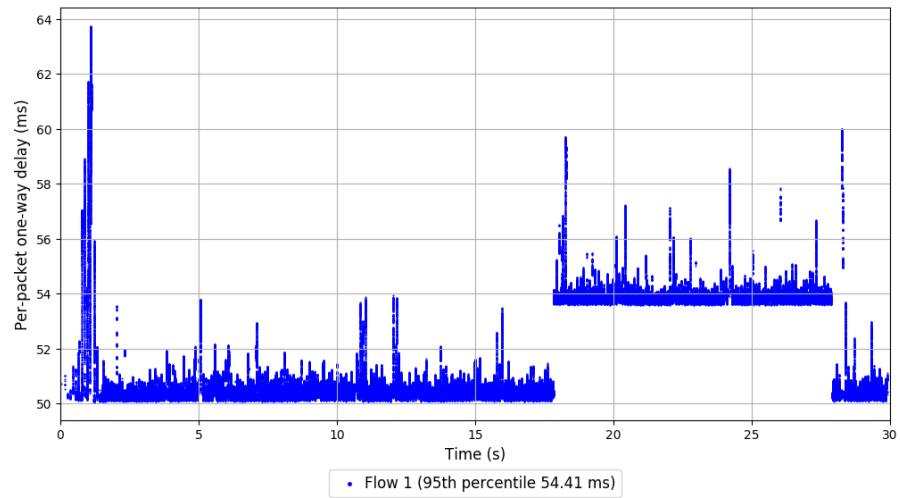
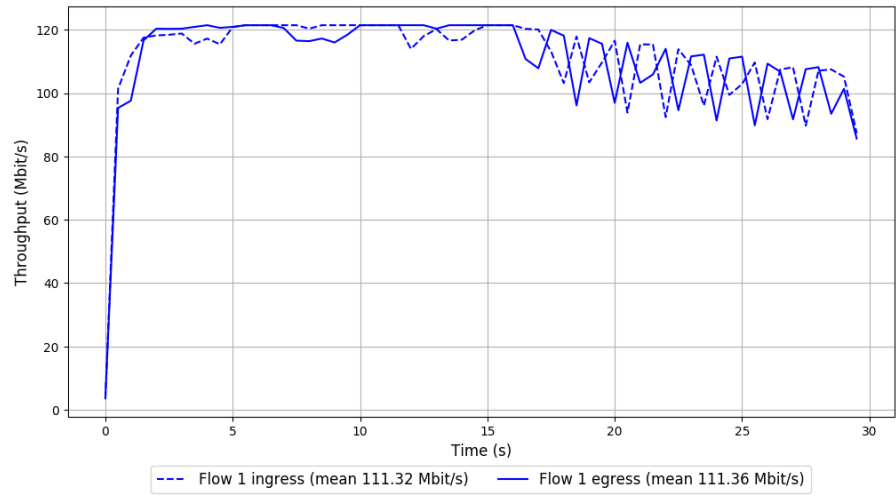
-- Flow 1:

Average throughput: 111.36 Mbit/s

95th percentile per-packet one-way delay: 54.407 ms

Loss rate: 0.32%

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



Run 6: Statistics of TCP Vegas

Start at: 2018-03-13 04:48:43

End at: 2018-03-13 04:49:13

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 106.63 Mbit/s

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

Loss rate: 0.39%

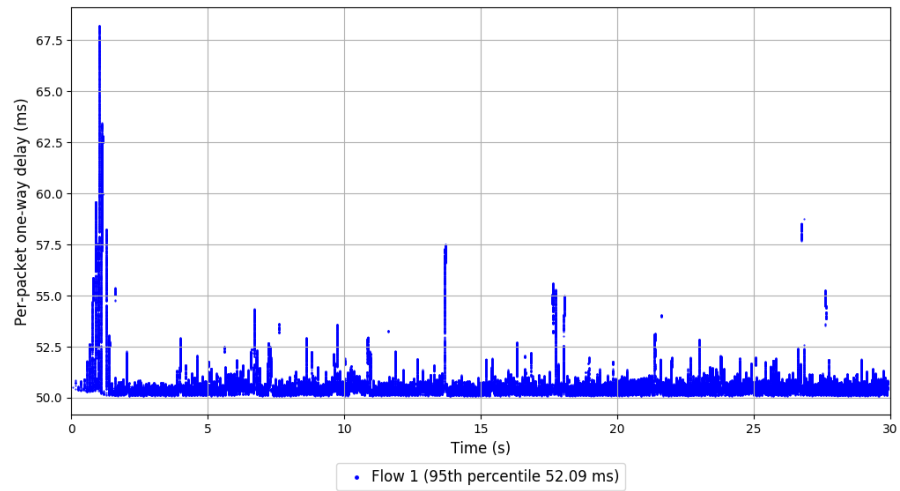
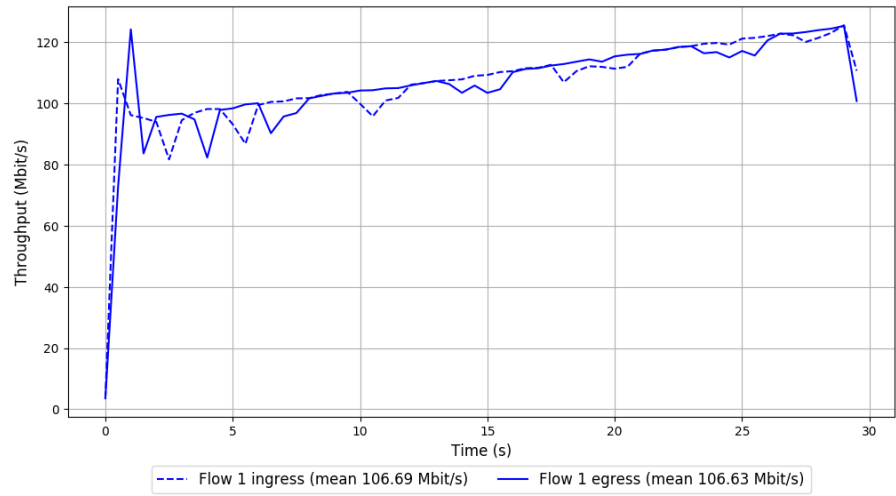
-- Flow 1:

Average throughput: 106.63 Mbit/s

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

Loss rate: 0.39%

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



Run 7: Statistics of TCP Vegas

Start at: 2018-03-13 05:02:57

End at: 2018-03-13 05:03:28

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.77 Mbit/s

95th percentile per-packet one-way delay: 60.550 ms

Loss rate: 0.06%

-- Flow 1:

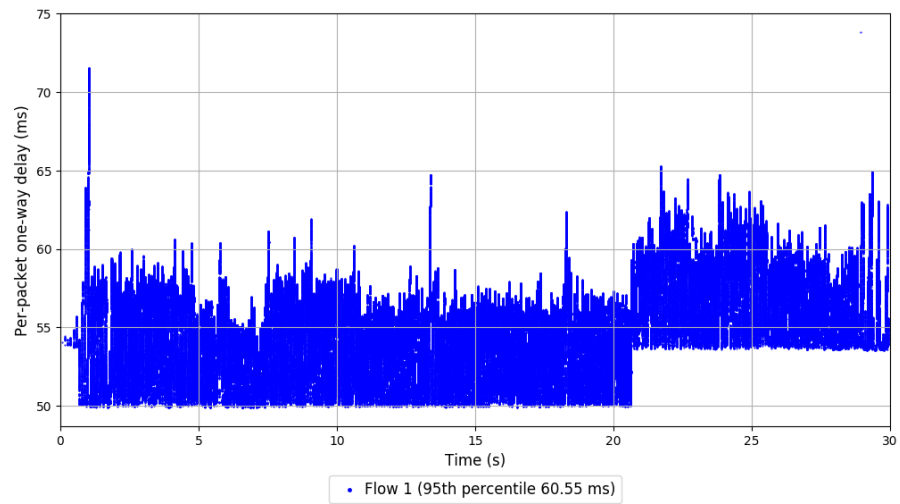
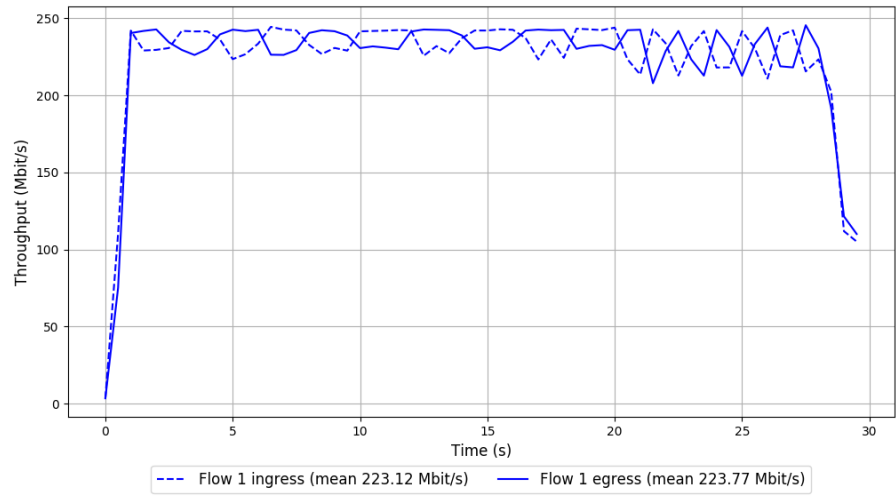
Average throughput: 223.77 Mbit/s

95th percentile per-packet one-way delay: 60.550 ms

Loss rate: 0.06%



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



Run 8: Statistics of TCP Vegas

Start at: 2018-03-13 05:17:32

End at: 2018-03-13 05:18:02

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 54.462 ms

Loss rate: 0.36%

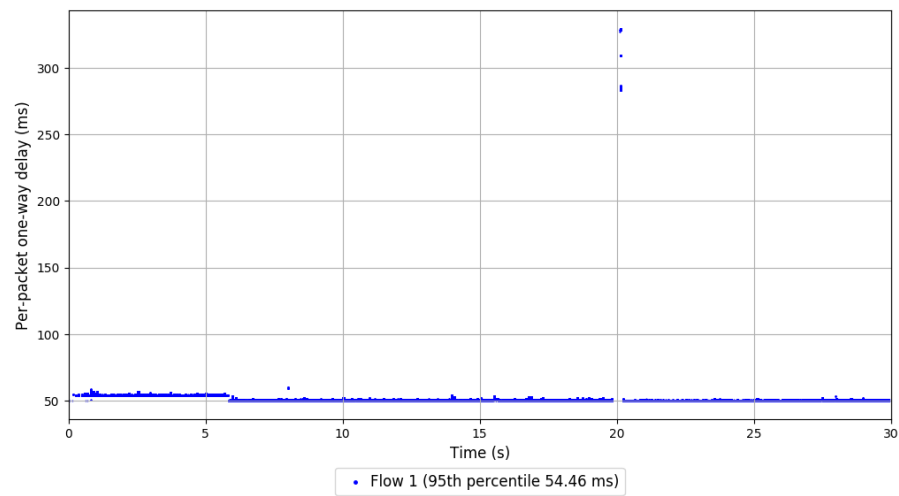
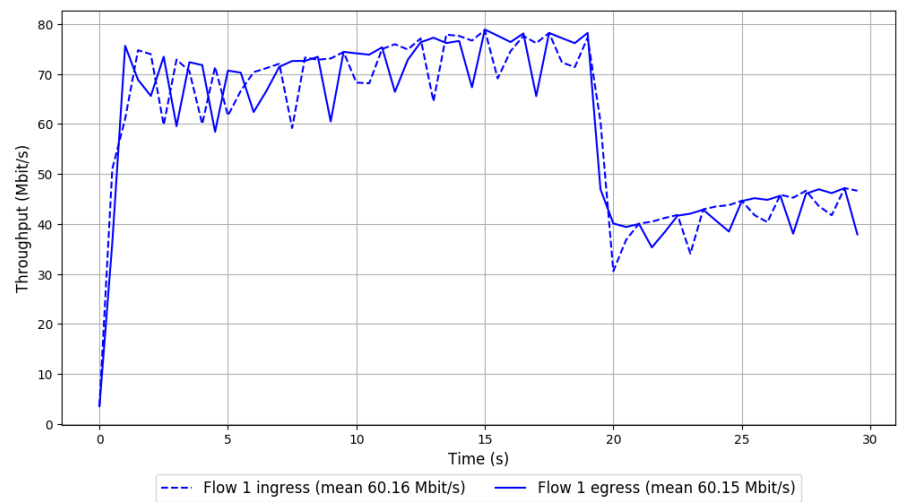
-- Flow 1:

Average throughput: 60.15 Mbit/s

95th percentile per-packet one-way delay: 54.462 ms

Loss rate: 0.36%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-13 05:31:57

End at: 2018-03-13 05:32:27

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 166.93 Mbit/s

95th percentile per-packet one-way delay: 54.463 ms

Loss rate: 0.34%

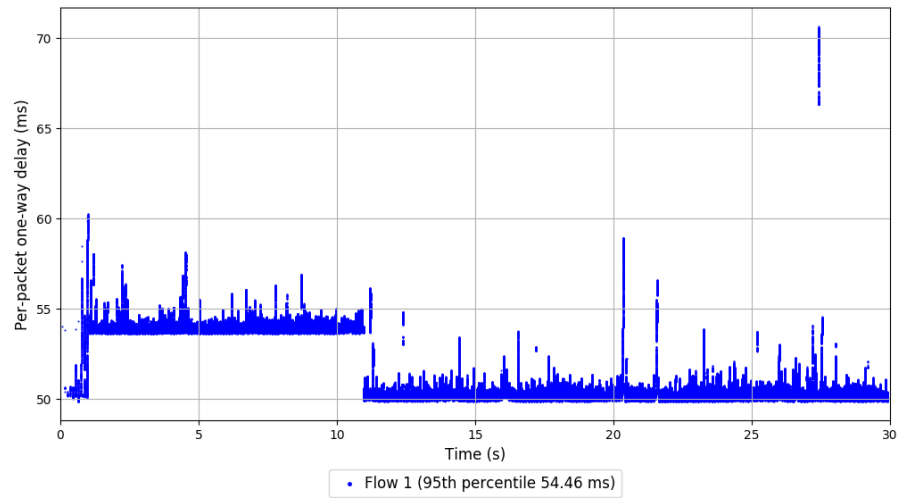
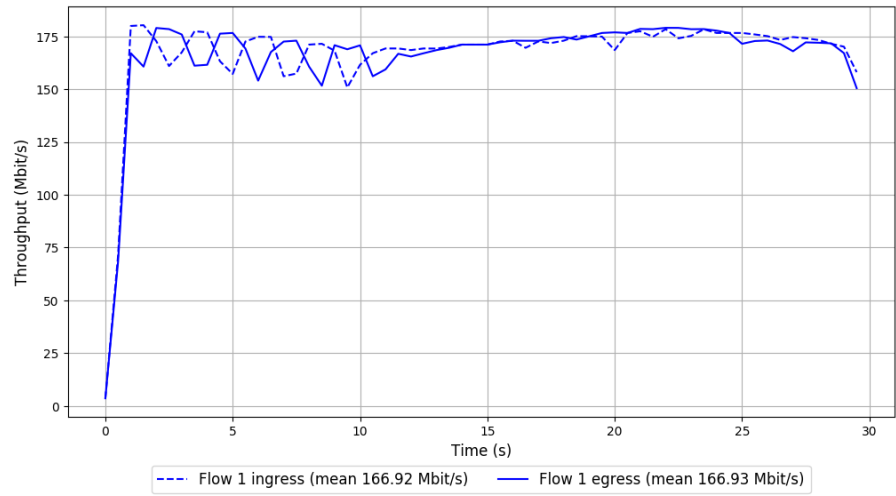
-- Flow 1:

Average throughput: 166.93 Mbit/s

95th percentile per-packet one-way delay: 54.463 ms

Loss rate: 0.34%

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



Run 10: Statistics of TCP Vegas

Start at: 2018-03-13 05:46:14

End at: 2018-03-13 05:46:44

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 161.58 Mbit/s

95th percentile per-packet one-way delay: 56.875 ms

Loss rate: 0.30%

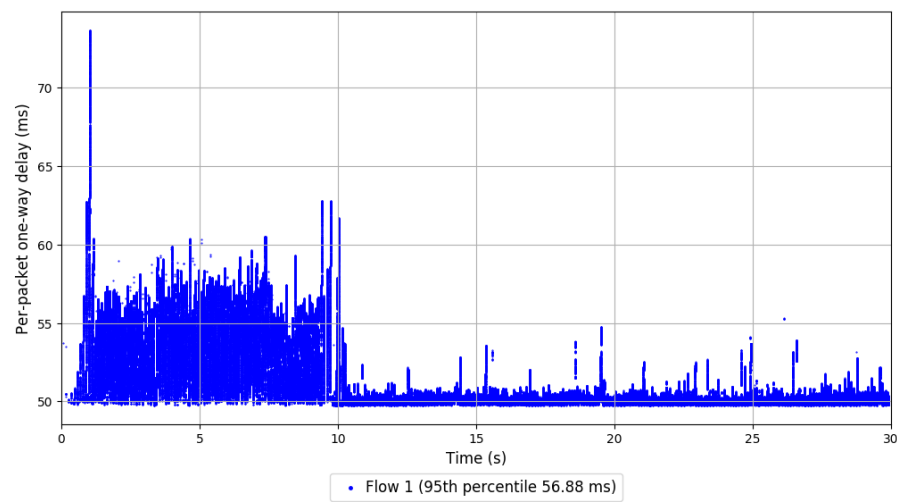
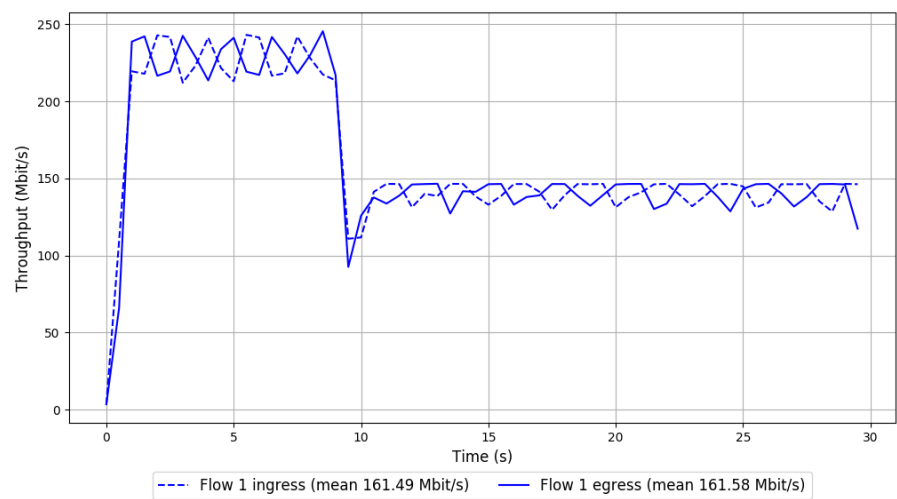
-- Flow 1:

Average throughput: 161.58 Mbit/s

95th percentile per-packet one-way delay: 56.875 ms

Loss rate: 0.30%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

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

End at: 2018-03-13 03:46:33

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.53 Mbit/s

95th percentile per-packet one-way delay: 108.008 ms

Loss rate: 0.59%

-- Flow 1:

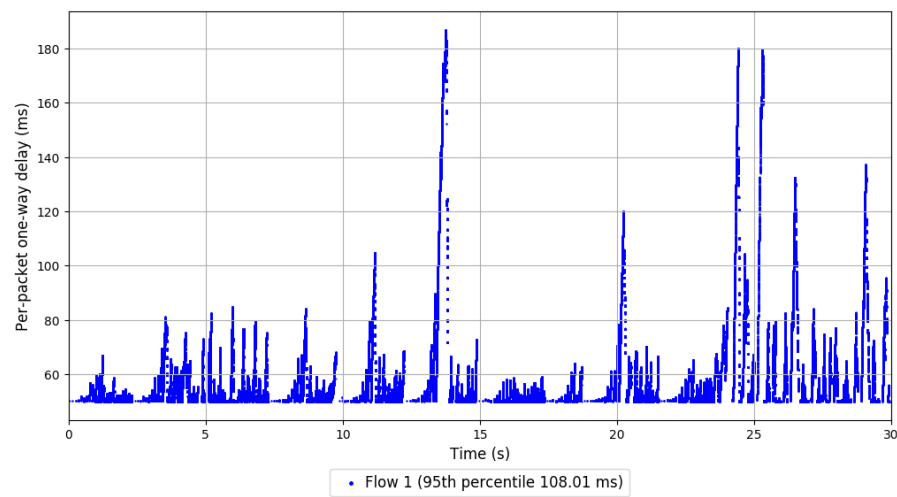
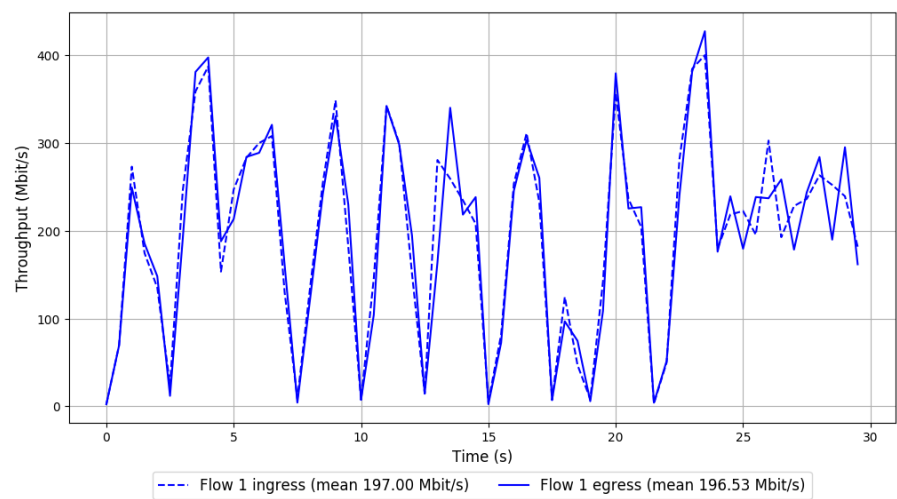
Average throughput: 196.53 Mbit/s

95th percentile per-packet one-way delay: 108.008 ms

Loss rate: 0.59%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-13 04:00:33

End at: 2018-03-13 04:01:03

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 218.06 Mbit/s

95th percentile per-packet one-way delay: 86.616 ms

Loss rate: 0.48%

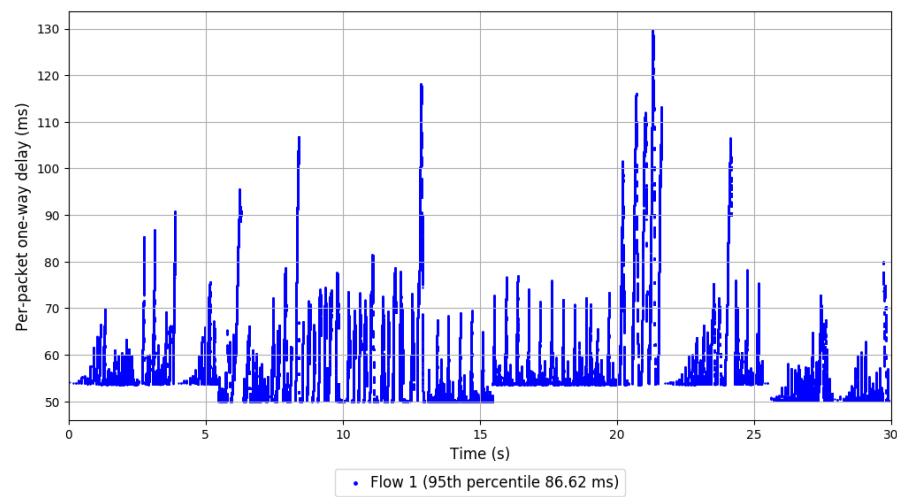
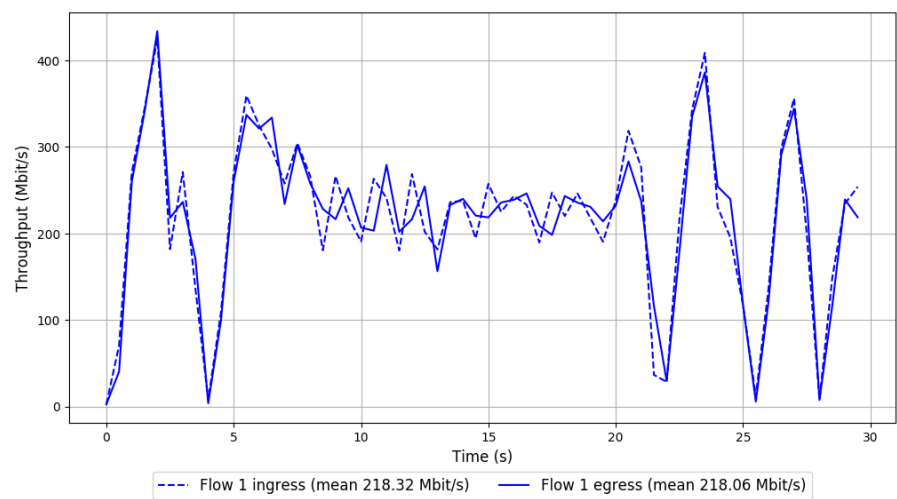
-- Flow 1:

Average throughput: 218.06 Mbit/s

95th percentile per-packet one-way delay: 86.616 ms

Loss rate: 0.48%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-13 04:14:48

End at: 2018-03-13 04:15:18

# Below is generated by plot.py at 2018-03-13 09:13:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.74 Mbit/s

95th percentile per-packet one-way delay: 93.035 ms

Loss rate: 0.41%

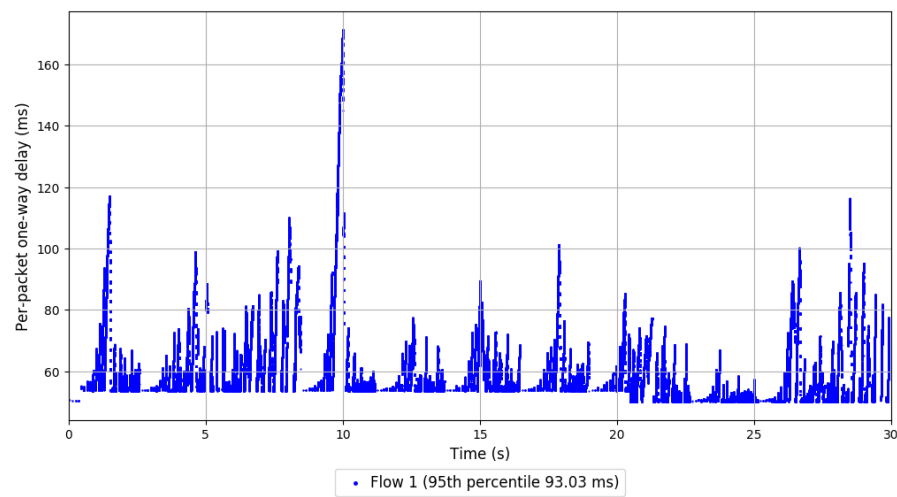
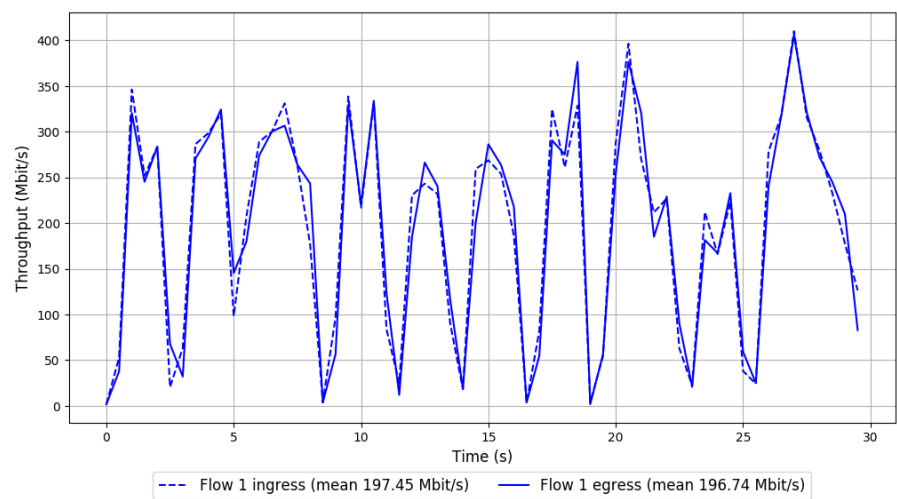
-- Flow 1:

Average throughput: 196.74 Mbit/s

95th percentile per-packet one-way delay: 93.035 ms

Loss rate: 0.41%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-13 04:28:55

End at: 2018-03-13 04:29:25

# Below is generated by plot.py at 2018-03-13 09:13:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 248.30 Mbit/s

95th percentile per-packet one-way delay: 93.980 ms

Loss rate: 1.28%

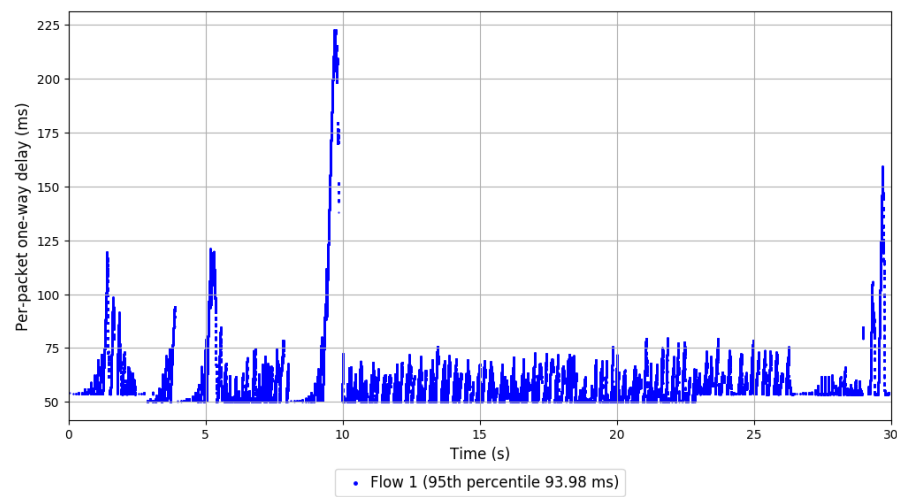
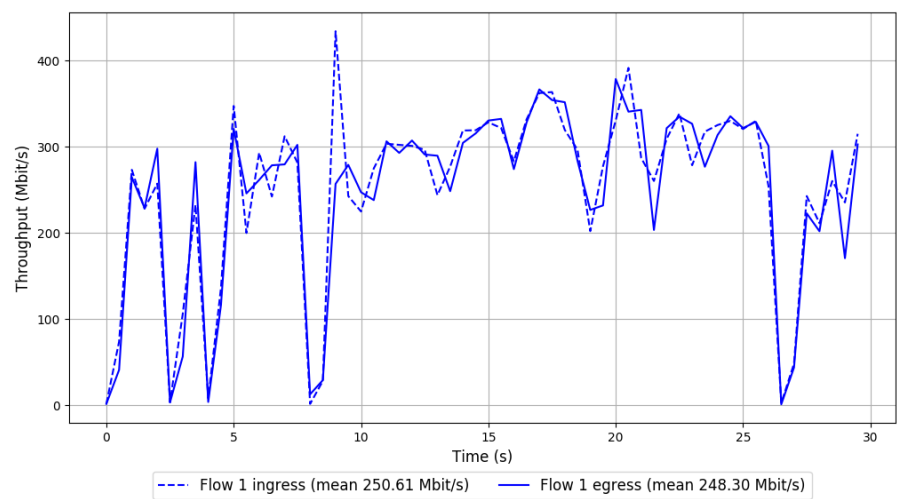
-- Flow 1:

Average throughput: 248.30 Mbit/s

95th percentile per-packet one-way delay: 93.980 ms

Loss rate: 1.28%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-13 04:43:32

End at: 2018-03-13 04:44:02

# Below is generated by plot.py at 2018-03-13 09:16:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.79 Mbit/s

95th percentile per-packet one-way delay: 252.685 ms

Loss rate: 4.51%

-- Flow 1:

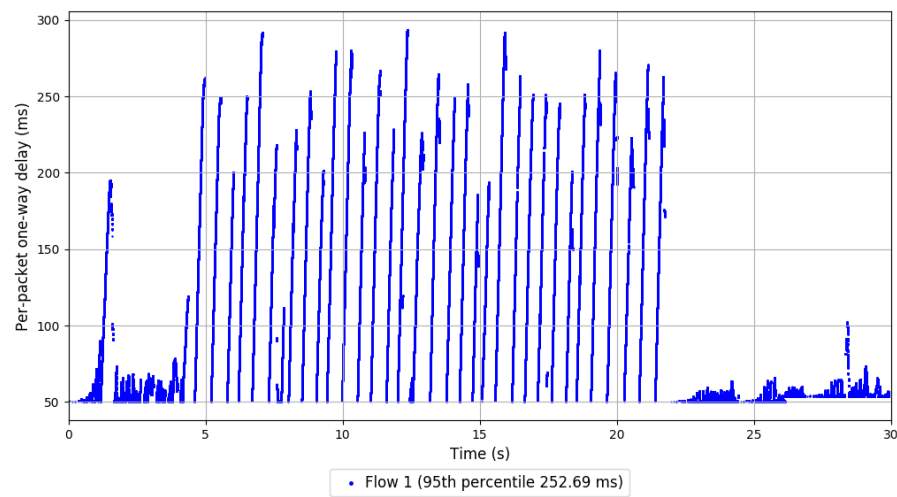
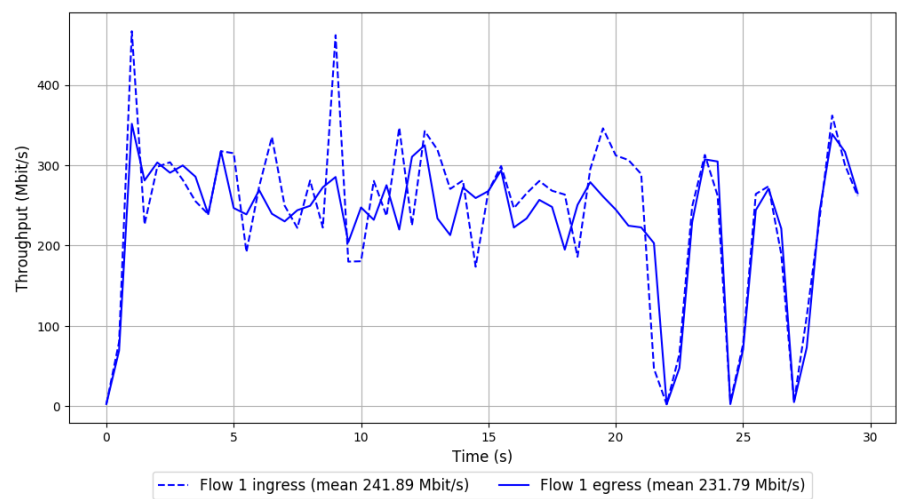
Average throughput: 231.79 Mbit/s

95th percentile per-packet one-way delay: 252.685 ms

Loss rate: 4.51%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-13 04:57:54

End at: 2018-03-13 04:58:24

# Below is generated by plot.py at 2018-03-13 09:17:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 250.30 Mbit/s

95th percentile per-packet one-way delay: 120.205 ms

Loss rate: 1.47%

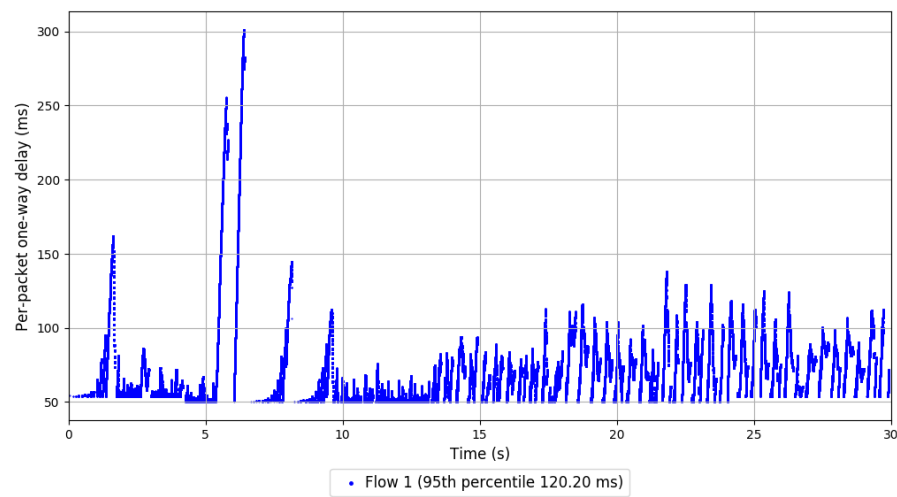
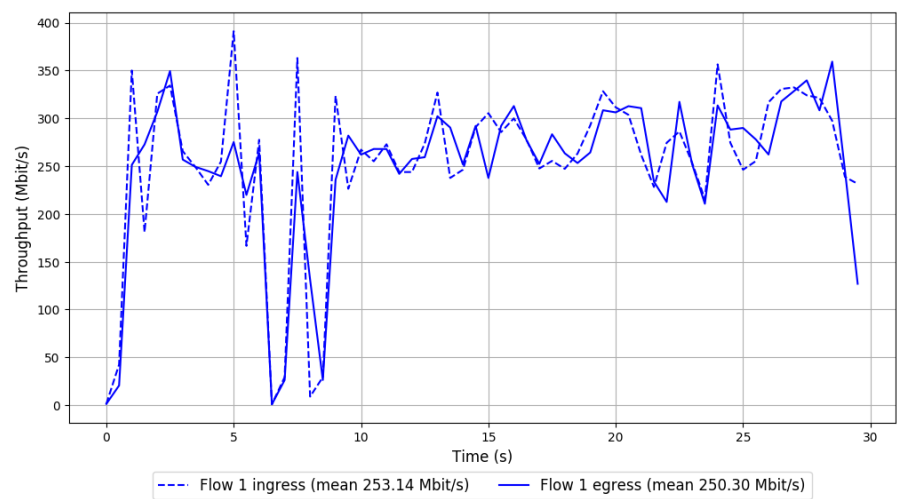
-- Flow 1:

Average throughput: 250.30 Mbit/s

95th percentile per-packet one-way delay: 120.205 ms

Loss rate: 1.47%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-13 05:12:23

End at: 2018-03-13 05:12:53

# Below is generated by plot.py at 2018-03-13 09:17:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.80 Mbit/s

95th percentile per-packet one-way delay: 79.058 ms

Loss rate: 0.65%

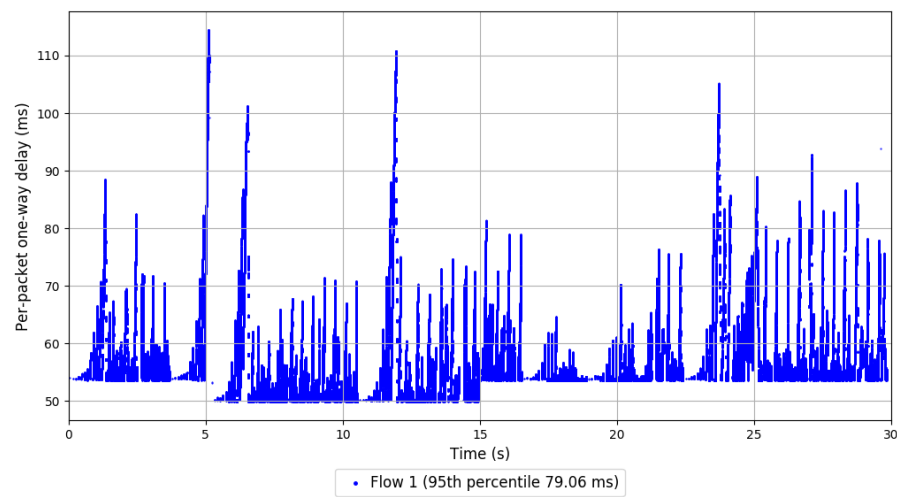
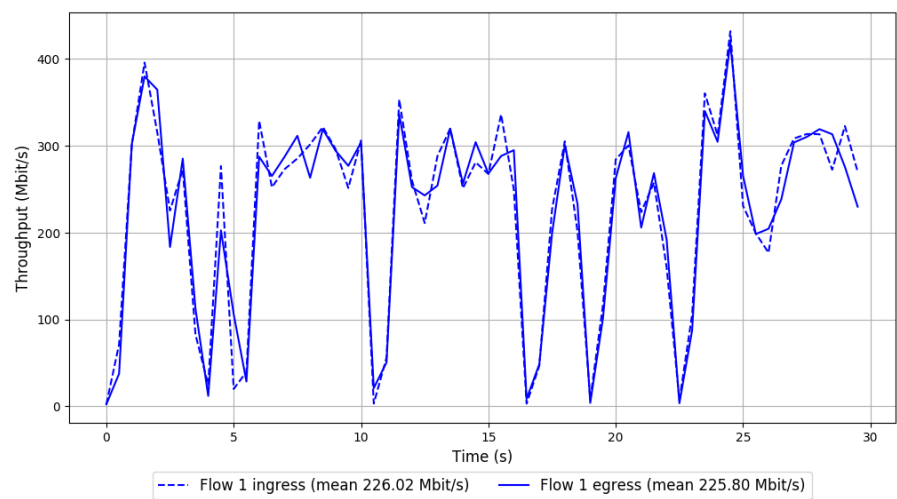
-- Flow 1:

Average throughput: 225.80 Mbit/s

95th percentile per-packet one-way delay: 79.058 ms

Loss rate: 0.65%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-13 05:26:52

End at: 2018-03-13 05:27:22

# Below is generated by plot.py at 2018-03-13 09:17:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 238.77 Mbit/s

95th percentile per-packet one-way delay: 96.239 ms

Loss rate: 0.37%

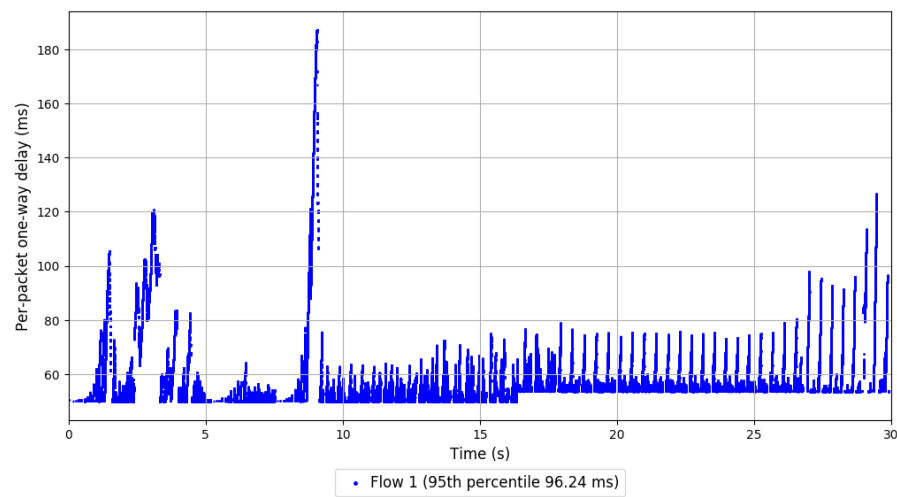
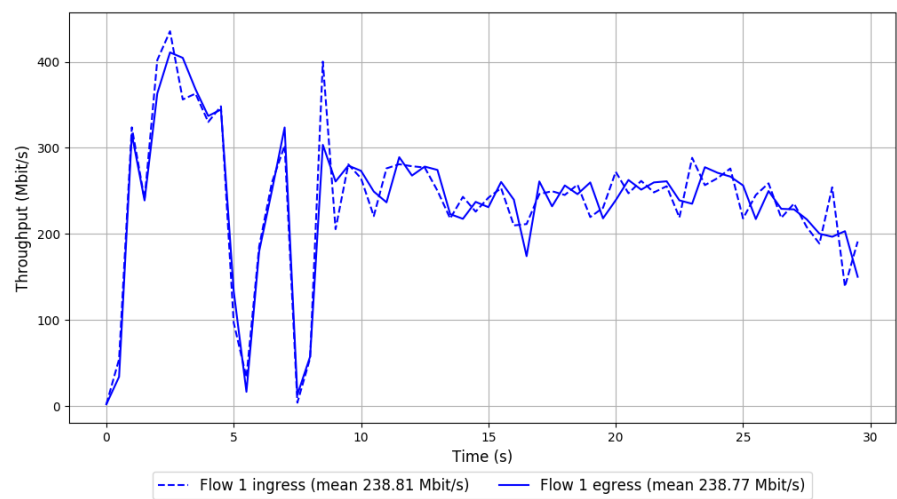
-- Flow 1:

Average throughput: 238.77 Mbit/s

95th percentile per-packet one-way delay: 96.239 ms

Loss rate: 0.37%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-13 05:41:16

End at: 2018-03-13 05:41:46

# Below is generated by plot.py at 2018-03-13 09:17:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.88 Mbit/s

95th percentile per-packet one-way delay: 86.128 ms

Loss rate: 0.44%

-- Flow 1:

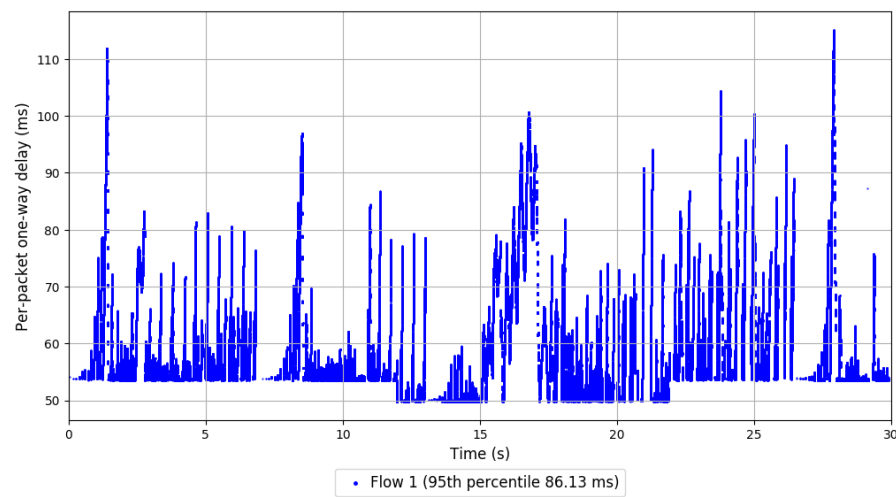
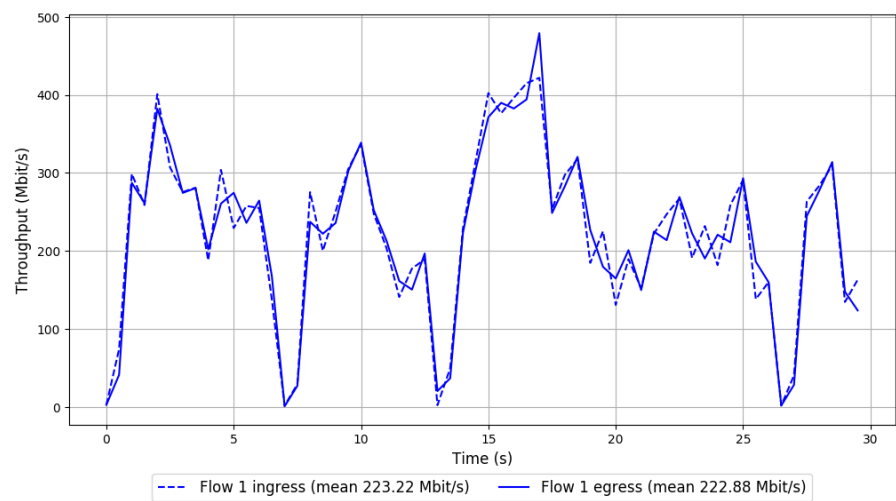
Average throughput: 222.88 Mbit/s

95th percentile per-packet one-way delay: 86.128 ms

Loss rate: 0.44%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-13 05:55:36

End at: 2018-03-13 05:56:07

# Below is generated by plot.py at 2018-03-13 09:18:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.49 Mbit/s

95th percentile per-packet one-way delay: 87.941 ms

Loss rate: 0.35%

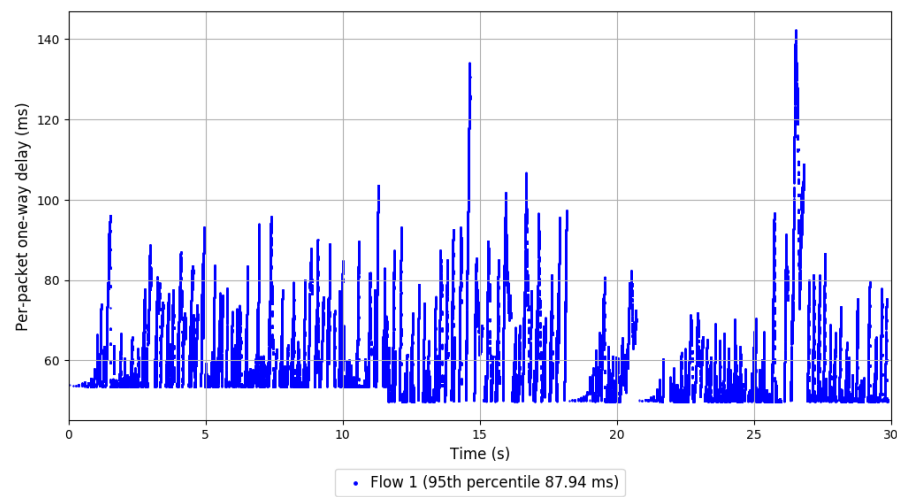
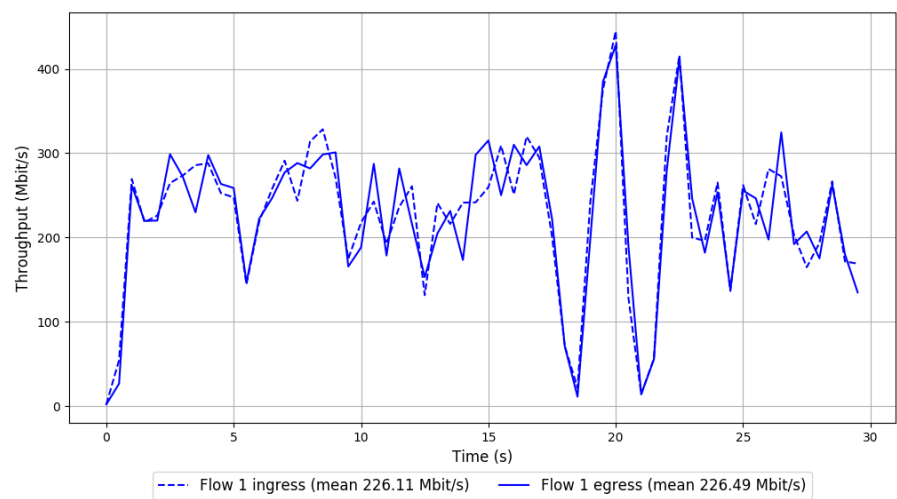
-- Flow 1:

Average throughput: 226.49 Mbit/s

95th percentile per-packet one-way delay: 87.941 ms

Loss rate: 0.35%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-13 03:41:37

End at: 2018-03-13 03:42:07

# Below is generated by plot.py at 2018-03-13 09:18:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.49 Mbit/s

95th percentile per-packet one-way delay: 53.710 ms

Loss rate: 0.09%

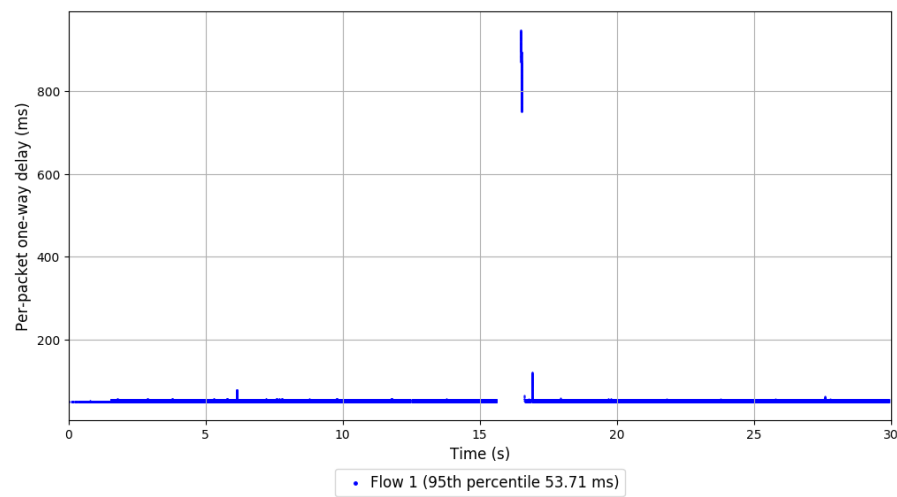
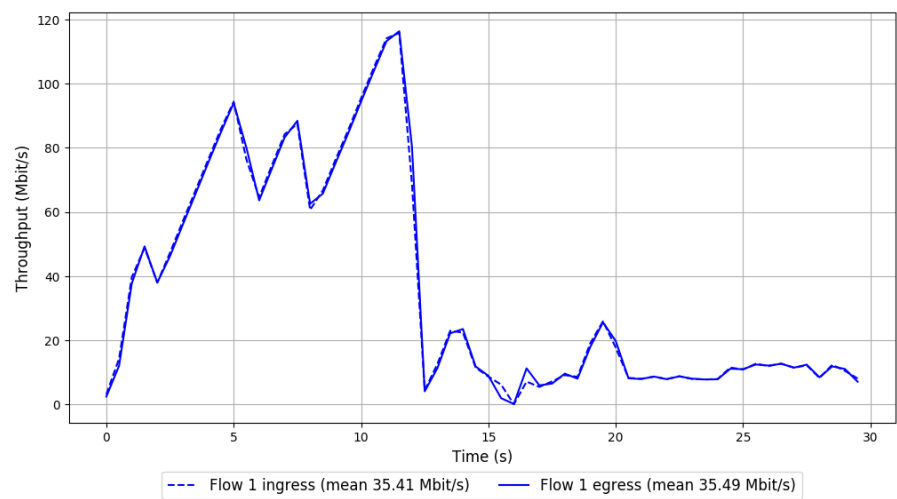
-- Flow 1:

Average throughput: 35.49 Mbit/s

95th percentile per-packet one-way delay: 53.710 ms

Loss rate: 0.09%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-13 03:55:59

End at: 2018-03-13 03:56:29

# Below is generated by plot.py at 2018-03-13 09:18:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.82 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 0.21%

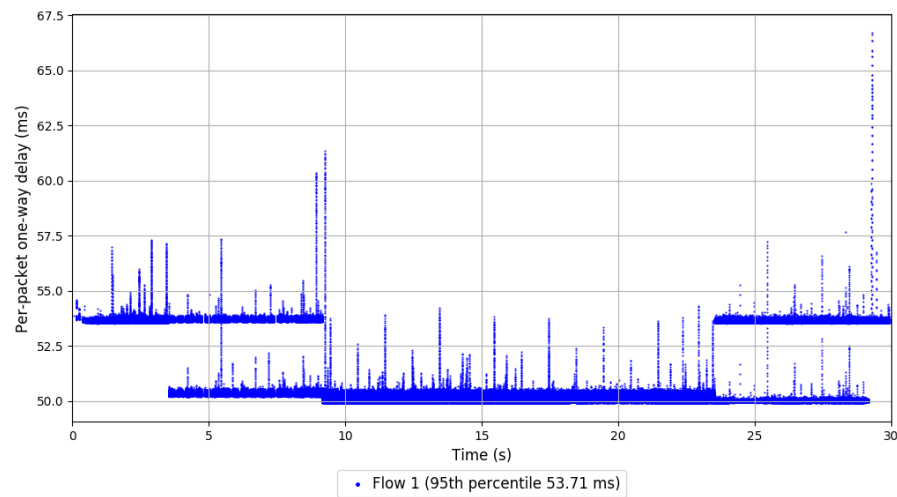
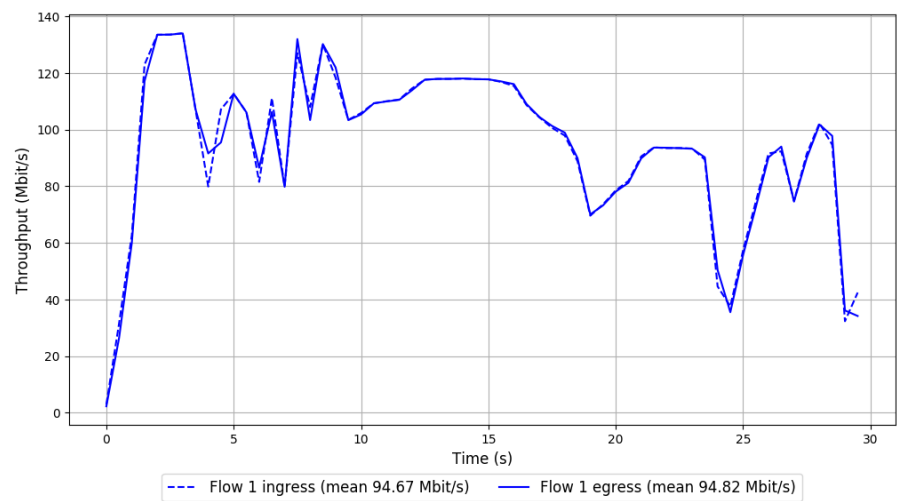
-- Flow 1:

Average throughput: 94.82 Mbit/s

95th percentile per-packet one-way delay: 53.709 ms

Loss rate: 0.21%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-13 04:10:18

End at: 2018-03-13 04:10:48

# Below is generated by plot.py at 2018-03-13 09:18:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 53.721 ms

Loss rate: 0.37%

-- Flow 1:

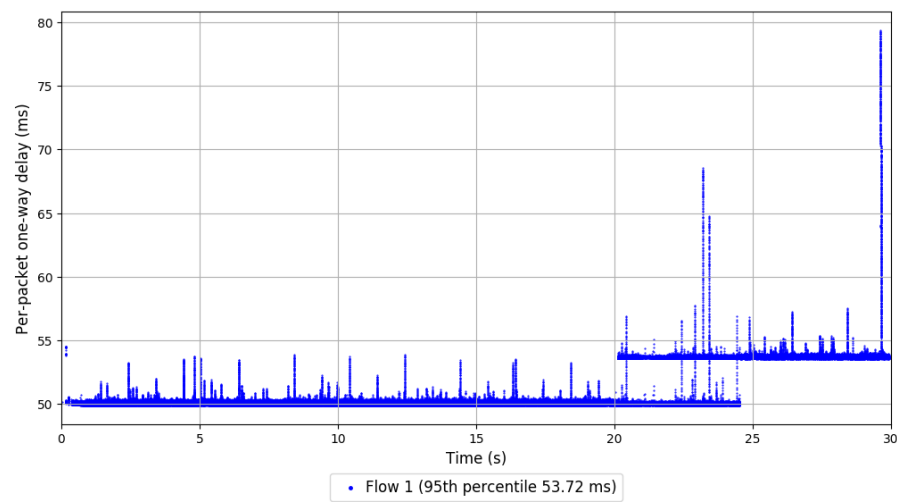
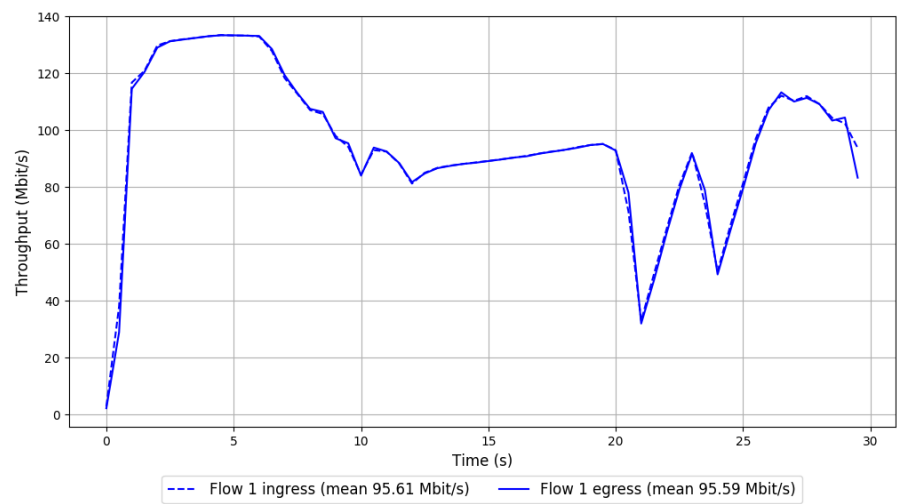
Average throughput: 95.59 Mbit/s

95th percentile per-packet one-way delay: 53.721 ms

Loss rate: 0.37%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-13 04:24:25

End at: 2018-03-13 04:24:55

# Below is generated by plot.py at 2018-03-13 09:19:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 99.37 Mbit/s

95th percentile per-packet one-way delay: 53.935 ms

Loss rate: 0.82%

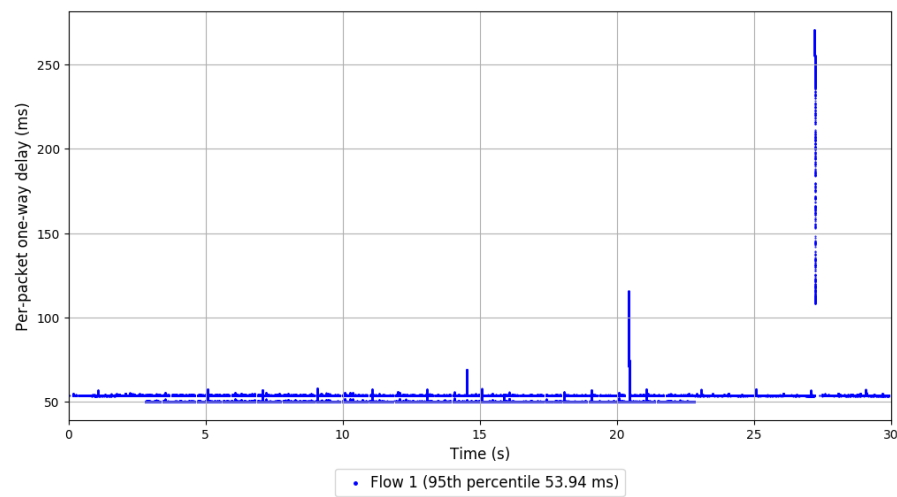
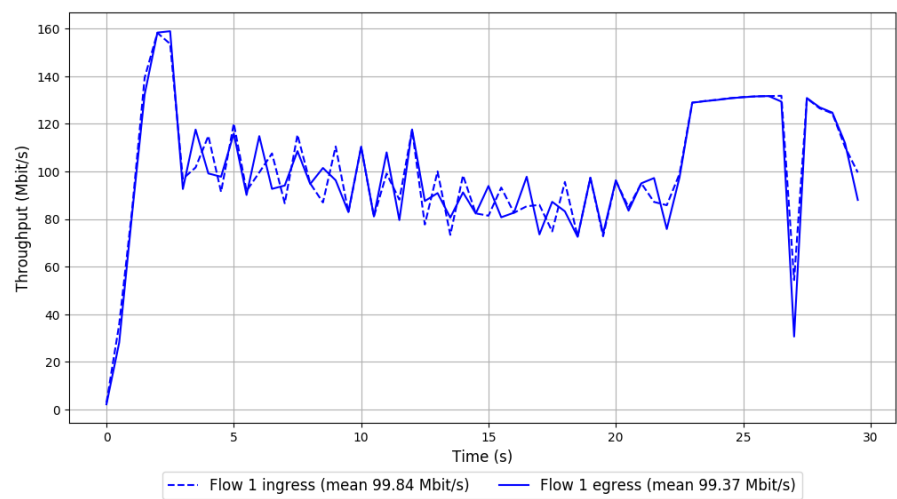
-- Flow 1:

Average throughput: 99.37 Mbit/s

95th percentile per-packet one-way delay: 53.935 ms

Loss rate: 0.82%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-13 04:38:53

End at: 2018-03-13 04:39:23

# Below is generated by plot.py at 2018-03-13 09:25:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.33 Mbit/s

95th percentile per-packet one-way delay: 228.371 ms

Loss rate: 23.17%

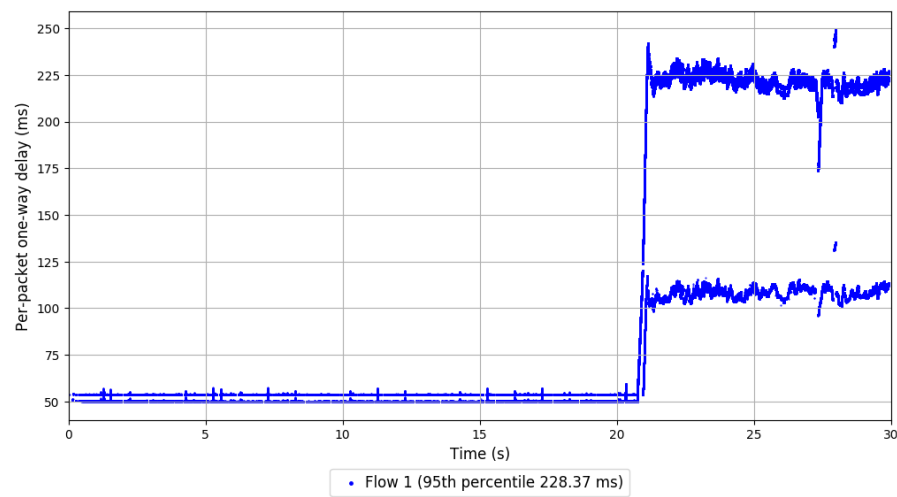
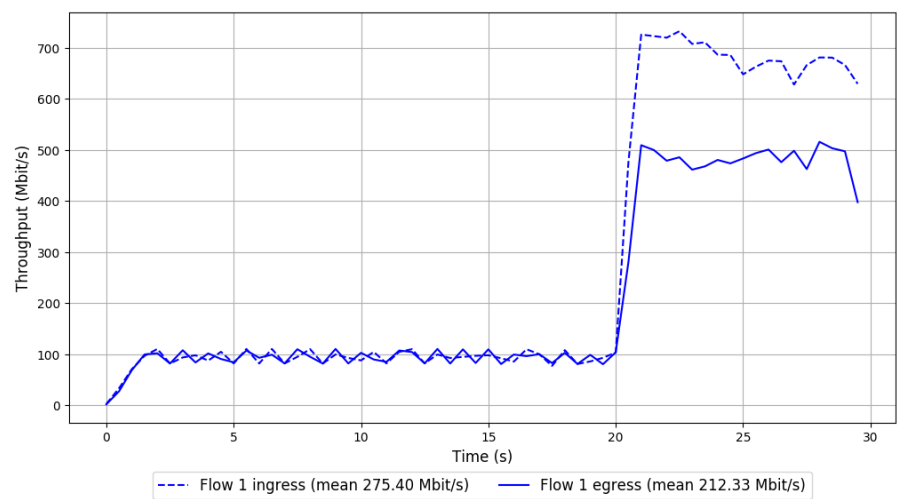
-- Flow 1:

Average throughput: 212.33 Mbit/s

95th percentile per-packet one-way delay: 228.371 ms

Loss rate: 23.17%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-13 04:53:21

End at: 2018-03-13 04:53:51

# Below is generated by plot.py at 2018-03-13 09:25:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.69 Mbit/s

95th percentile per-packet one-way delay: 53.835 ms

Loss rate: 0.46%

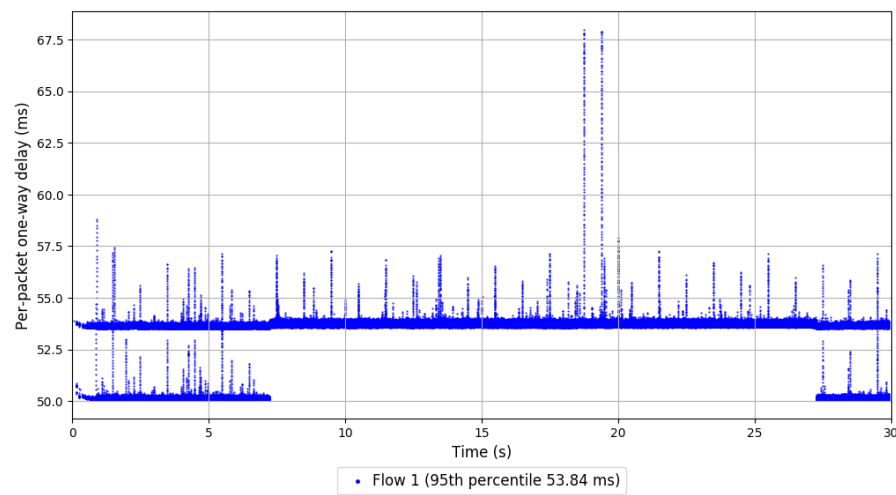
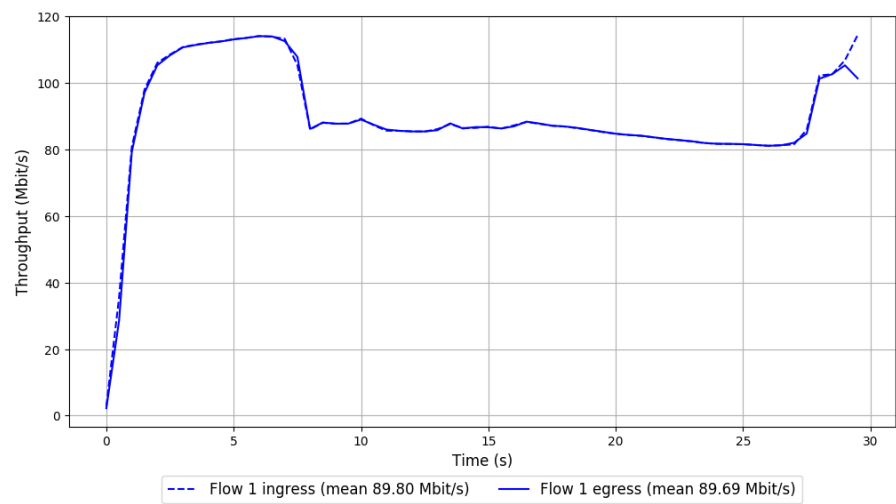
-- Flow 1:

Average throughput: 89.69 Mbit/s

95th percentile per-packet one-way delay: 53.835 ms

Loss rate: 0.46%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-13 05:07:40

End at: 2018-03-13 05:08:10

# Below is generated by plot.py at 2018-03-13 09:27:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 261.00 Mbit/s

95th percentile per-packet one-way delay: 220.257 ms

Loss rate: 16.23%

-- Flow 1:

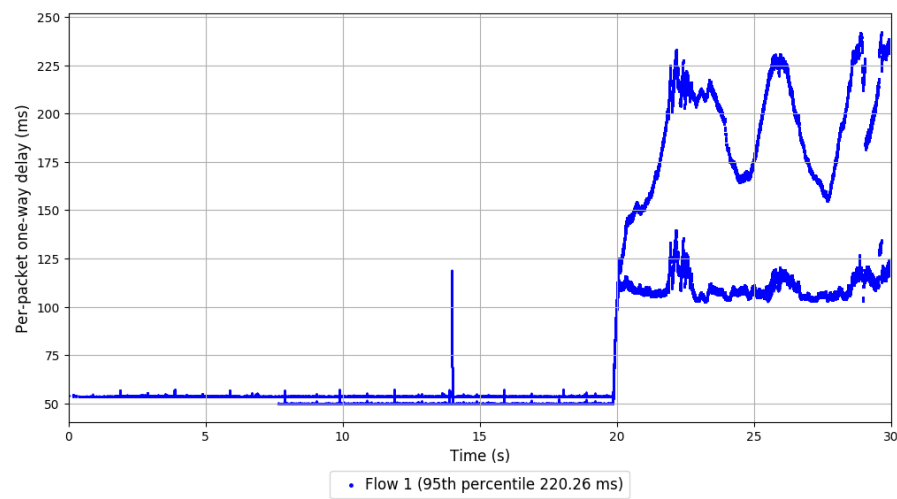
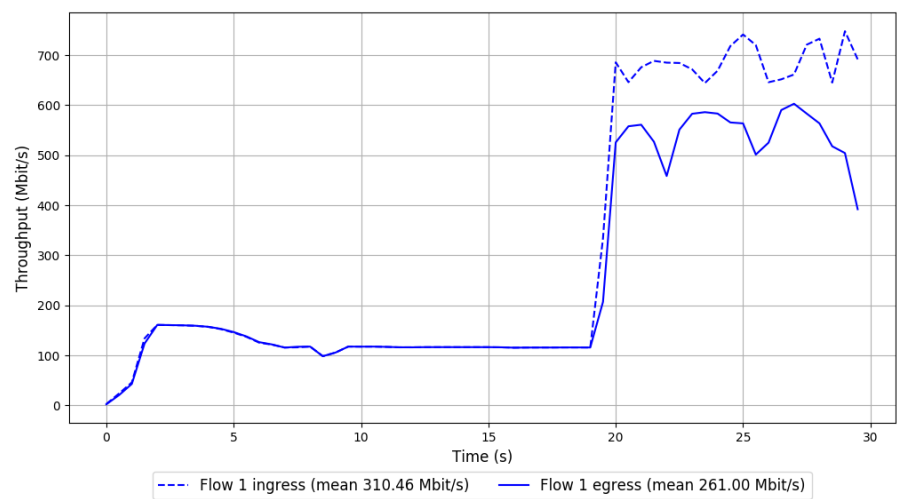
Average throughput: 261.00 Mbit/s

95th percentile per-packet one-way delay: 220.257 ms

Loss rate: 16.23%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-13 05:22:10

End at: 2018-03-13 05:22:40

# Below is generated by plot.py at 2018-03-13 09:35:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 399.67 Mbit/s

95th percentile per-packet one-way delay: 235.914 ms

Loss rate: 22.55%

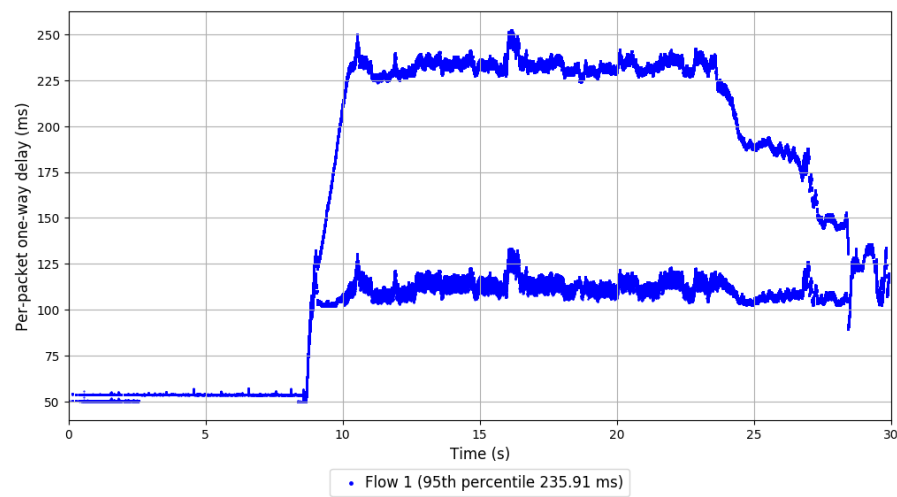
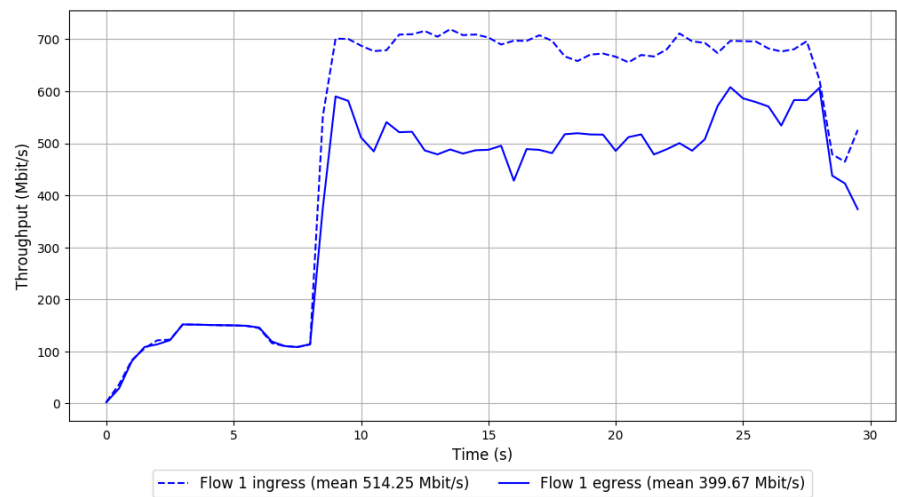
-- Flow 1:

Average throughput: 399.67 Mbit/s

95th percentile per-packet one-way delay: 235.914 ms

Loss rate: 22.55%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-13 05:36:42

End at: 2018-03-13 05:37:12

# Below is generated by plot.py at 2018-03-13 09:35:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 53.679 ms

Loss rate: 0.35%

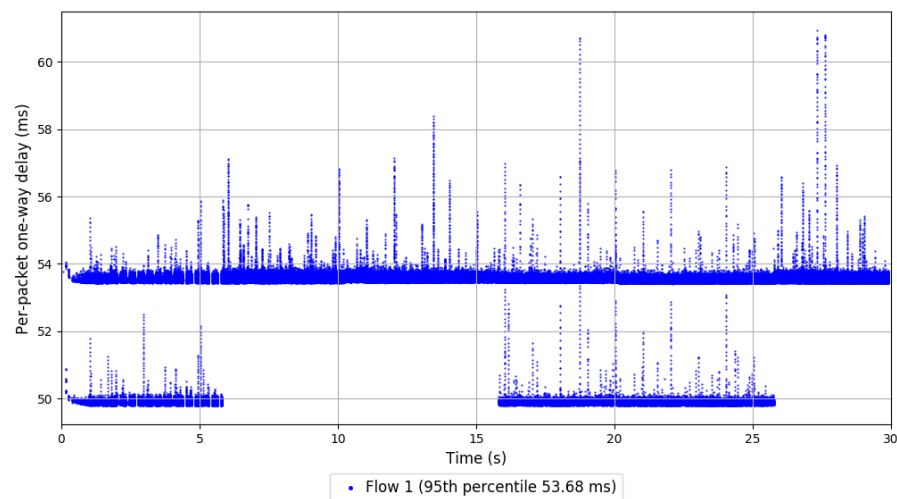
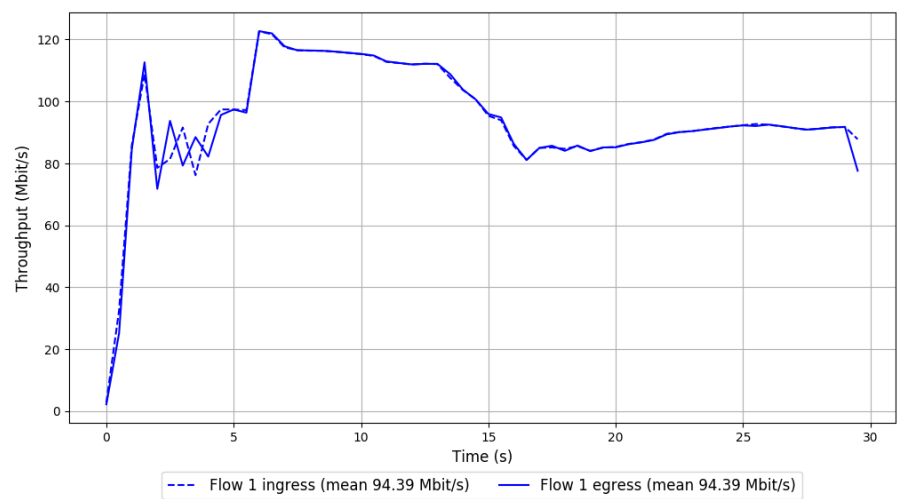
-- Flow 1:

Average throughput: 94.39 Mbit/s

95th percentile per-packet one-way delay: 53.679 ms

Loss rate: 0.35%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-13 05:50:57

End at: 2018-03-13 05:51:27

# Below is generated by plot.py at 2018-03-13 09:35:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.76 Mbit/s

95th percentile per-packet one-way delay: 223.760 ms

Loss rate: 21.82%

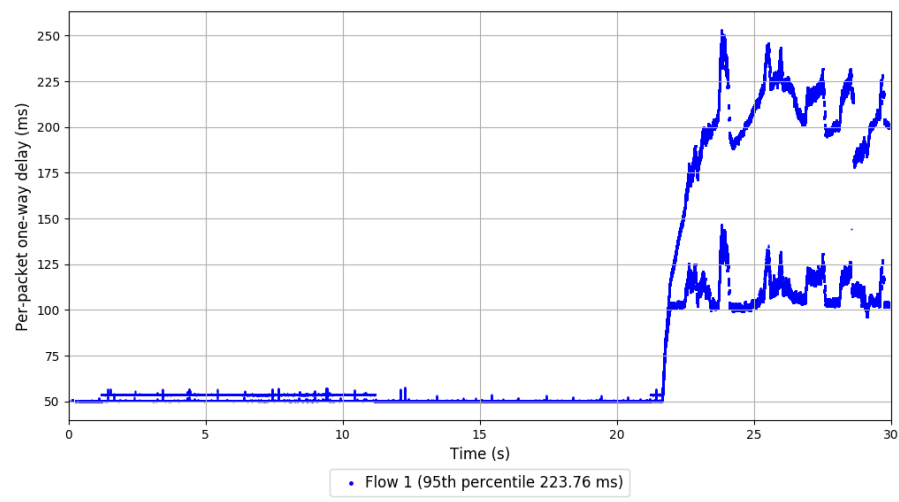
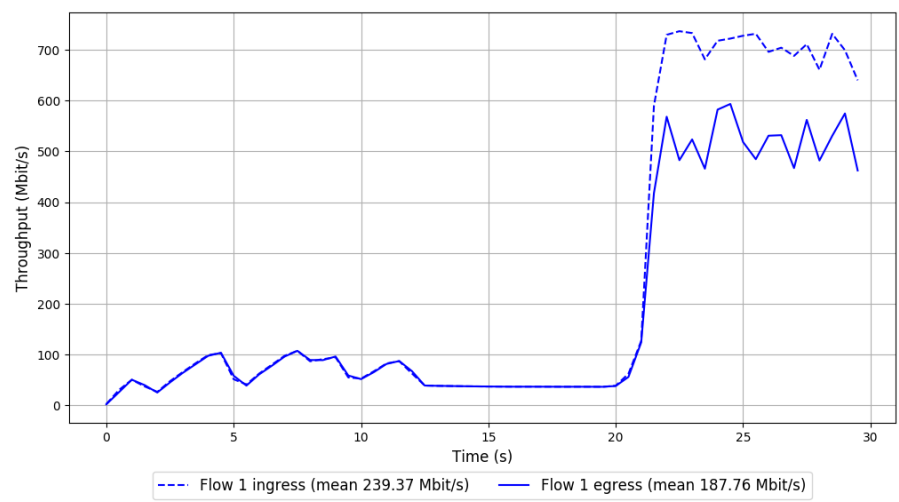
-- Flow 1:

Average throughput: 187.76 Mbit/s

95th percentile per-packet one-way delay: 223.760 ms

Loss rate: 21.82%

Run 10: Report of Copa — Data Link



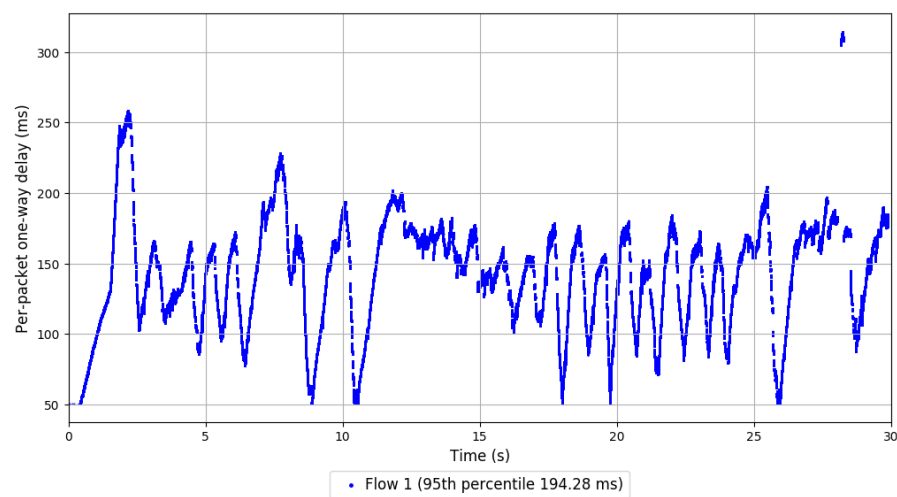
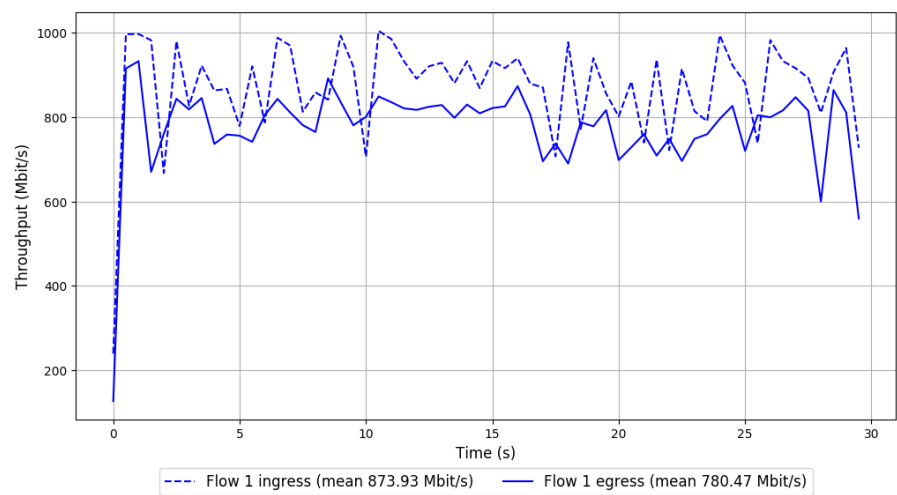
```
Run 1: Statistics of FillP

Start at: 2018-03-13 03:37:40
End at: 2018-03-13 03:38:10

# Below is generated by plot.py at 2018-03-13 09:36:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 780.47 Mbit/s
95th percentile per-packet one-way delay: 194.279 ms
Loss rate: 11.00%
-- Flow 1:
Average throughput: 780.47 Mbit/s
95th percentile per-packet one-way delay: 194.279 ms
Loss rate: 11.00%
```



Run 1: Report of FillP — Data Link

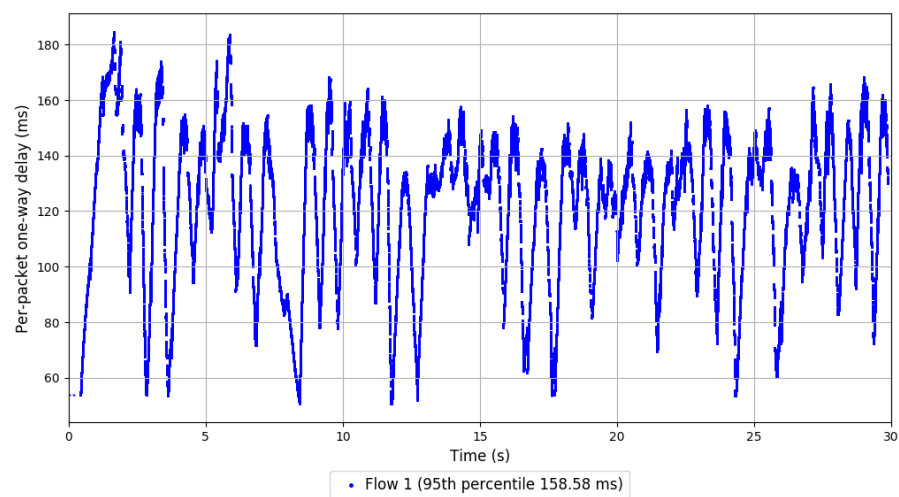
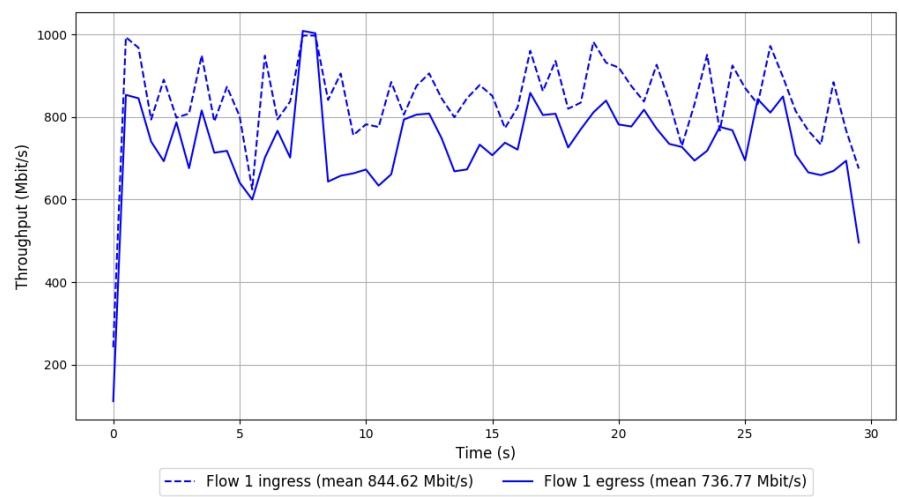


```
Run 2: Statistics of FillP

Start at: 2018-03-13 03:52:01
End at: 2018-03-13 03:52:31

# Below is generated by plot.py at 2018-03-13 09:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 736.77 Mbit/s
95th percentile per-packet one-way delay: 158.579 ms
Loss rate: 13.07%
-- Flow 1:
Average throughput: 736.77 Mbit/s
95th percentile per-packet one-way delay: 158.579 ms
Loss rate: 13.07%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-13 04:06:19

End at: 2018-03-13 04:06:49

# Below is generated by plot.py at 2018-03-13 09:39:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 786.02 Mbit/s

95th percentile per-packet one-way delay: 153.788 ms

Loss rate: 10.39%

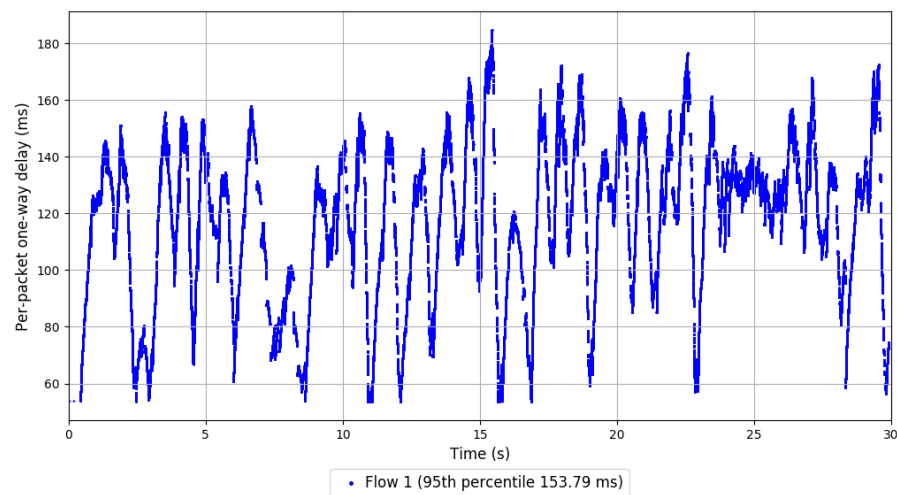
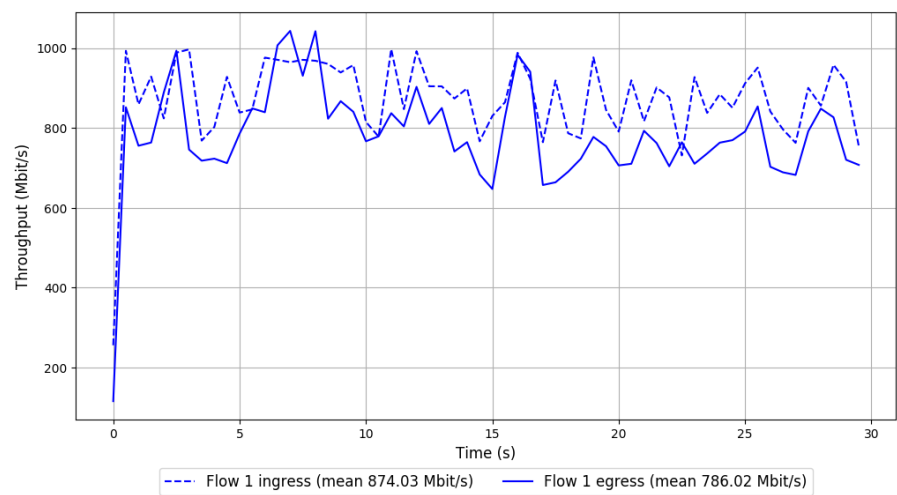
-- Flow 1:

Average throughput: 786.02 Mbit/s

95th percentile per-packet one-way delay: 153.788 ms

Loss rate: 10.39%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-13 04:20:26

End at: 2018-03-13 04:20:56

# Below is generated by plot.py at 2018-03-13 09:40:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 751.17 Mbit/s

95th percentile per-packet one-way delay: 196.469 ms

Loss rate: 12.47%

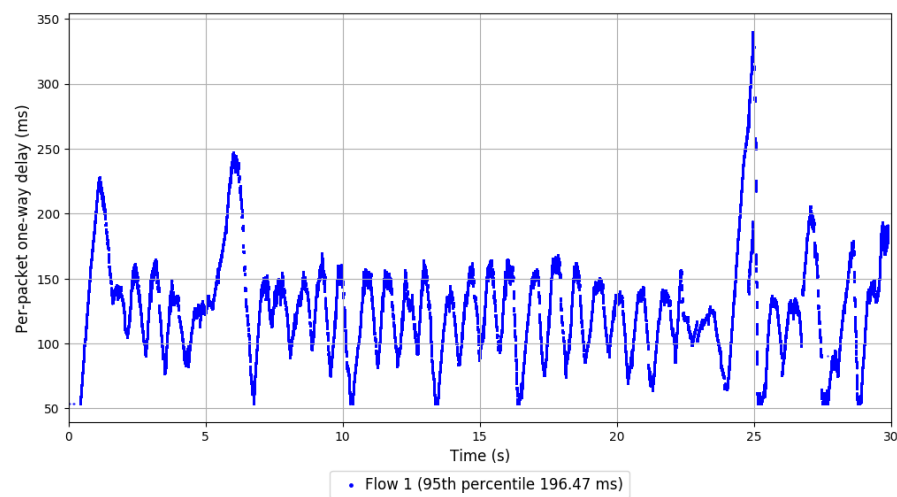
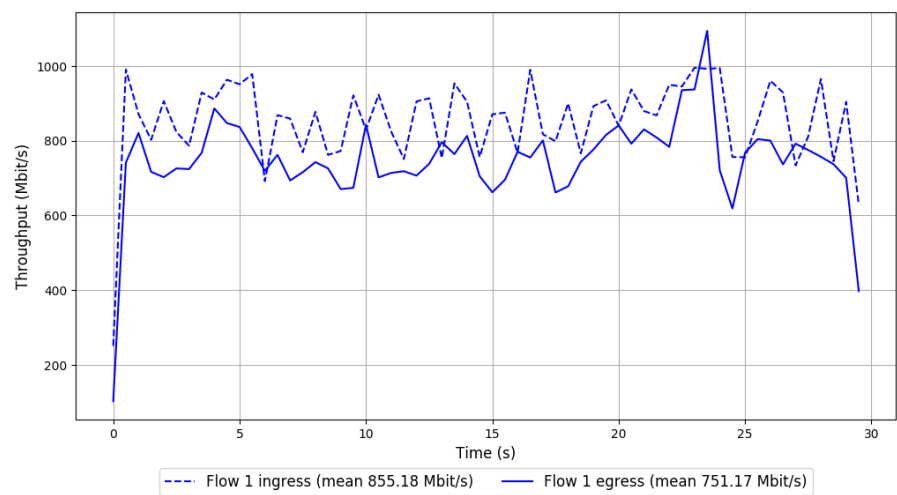
-- Flow 1:

Average throughput: 751.17 Mbit/s

95th percentile per-packet one-way delay: 196.469 ms

Loss rate: 12.47%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-13 04:34:52

End at: 2018-03-13 04:35:22

# Below is generated by plot.py at 2018-03-13 09:44:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 772.86 Mbit/s

95th percentile per-packet one-way delay: 263.347 ms

Loss rate: 10.96%

-- Flow 1:

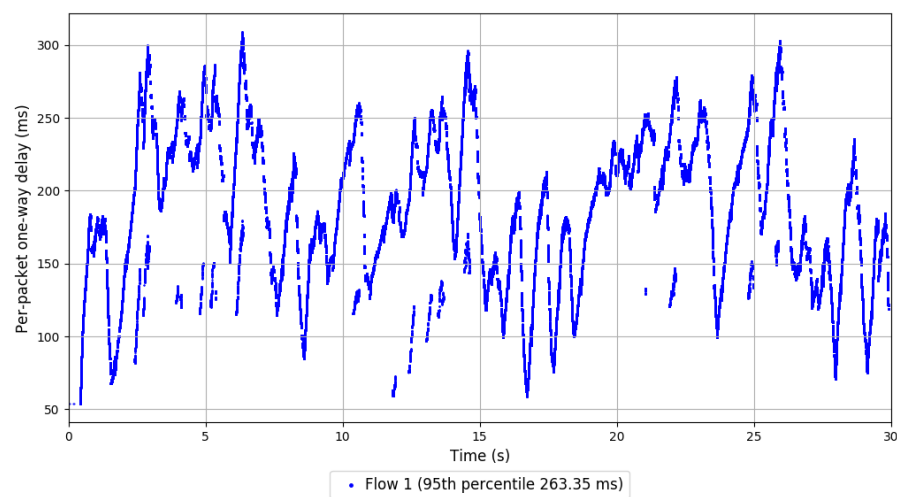
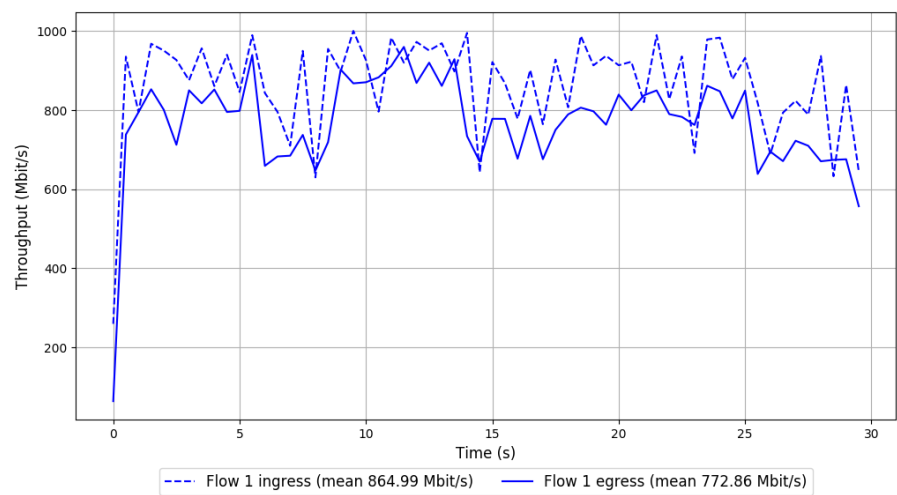
Average throughput: 772.86 Mbit/s

95th percentile per-packet one-way delay: 263.347 ms

Loss rate: 10.96%



Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-13 04:49:25

End at: 2018-03-13 04:49:55

# Below is generated by plot.py at 2018-03-13 09:44:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 782.20 Mbit/s

95th percentile per-packet one-way delay: 153.842 ms

Loss rate: 10.64%

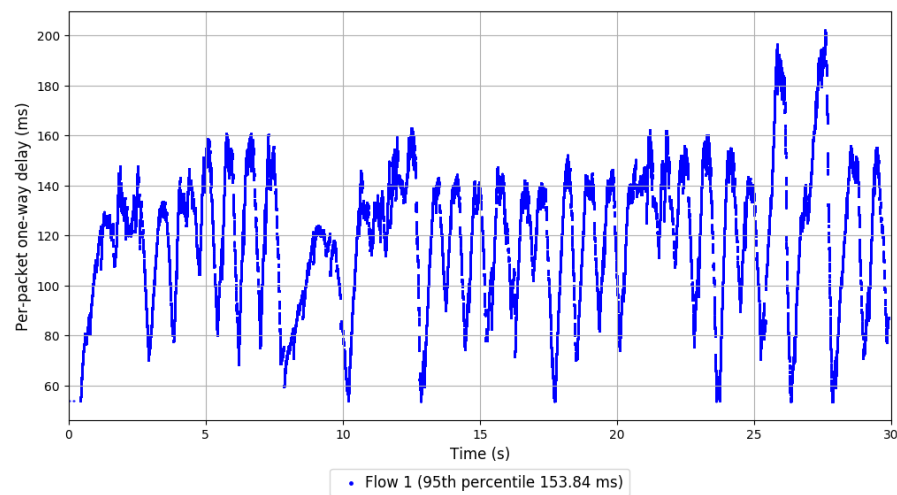
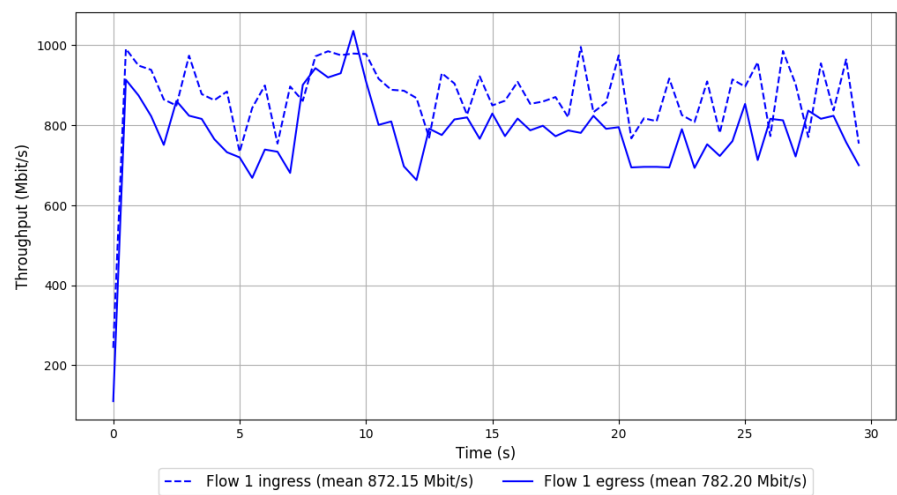
-- Flow 1:

Average throughput: 782.20 Mbit/s

95th percentile per-packet one-way delay: 153.842 ms

Loss rate: 10.64%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-13 05:03:45

End at: 2018-03-13 05:04:15

# Below is generated by plot.py at 2018-03-13 09:48:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 793.96 Mbit/s

95th percentile per-packet one-way delay: 226.824 ms

Loss rate: 10.75%

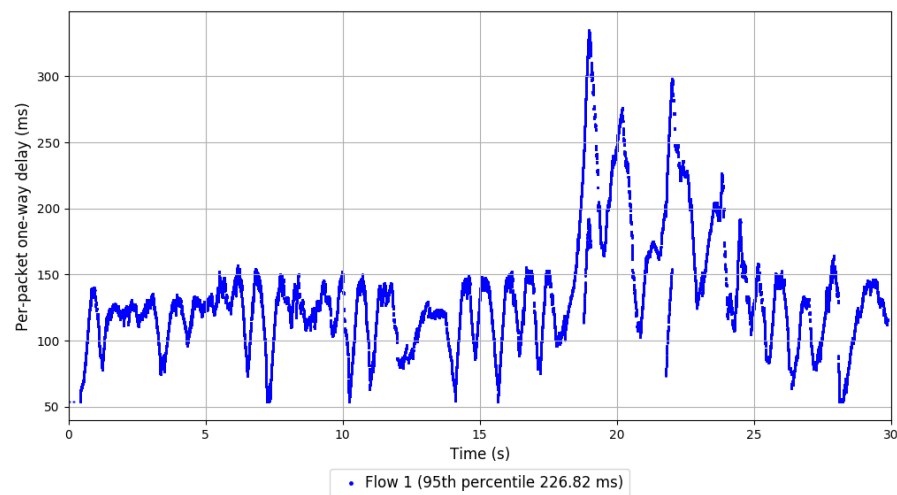
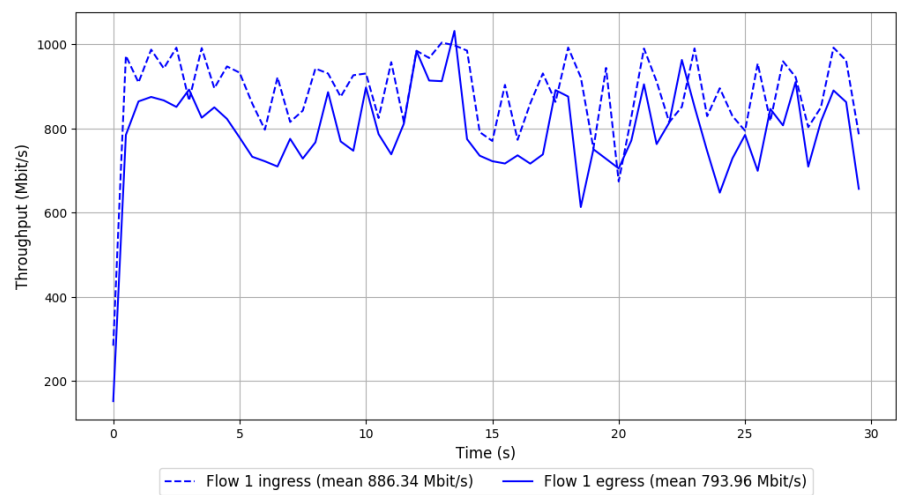
-- Flow 1:

Average throughput: 793.96 Mbit/s

95th percentile per-packet one-way delay: 226.824 ms

Loss rate: 10.75%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-13 05:18:12

End at: 2018-03-13 05:18:43

# Below is generated by plot.py at 2018-03-13 09:54:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 765.32 Mbit/s

95th percentile per-packet one-way delay: 168.849 ms

Loss rate: 11.91%

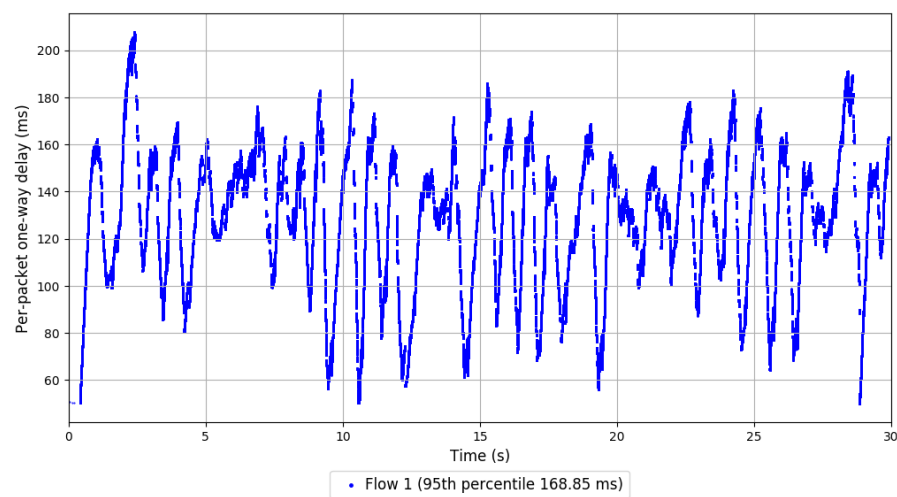
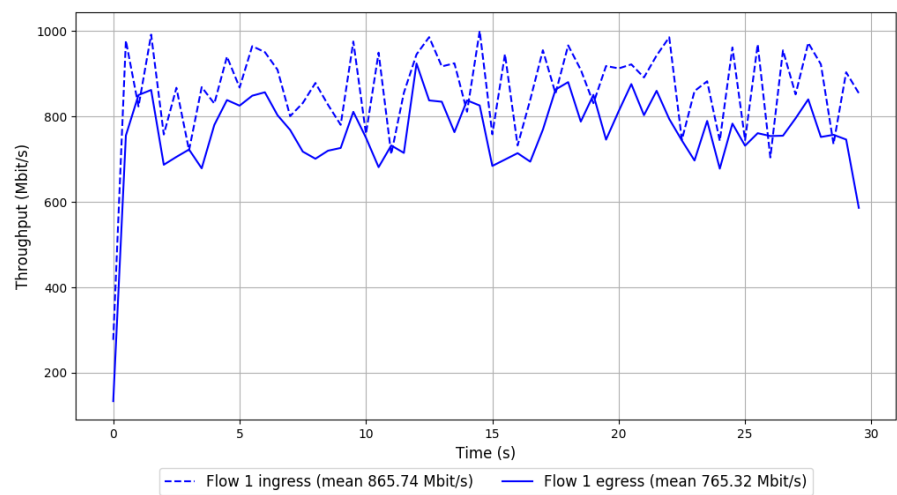
-- Flow 1:

Average throughput: 765.32 Mbit/s

95th percentile per-packet one-way delay: 168.849 ms

Loss rate: 11.91%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-13 05:32:42

End at: 2018-03-13 05:33:12

# Below is generated by plot.py at 2018-03-13 09:55:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 752.89 Mbit/s

95th percentile per-packet one-way delay: 194.718 ms

Loss rate: 12.91%

-- Flow 1:

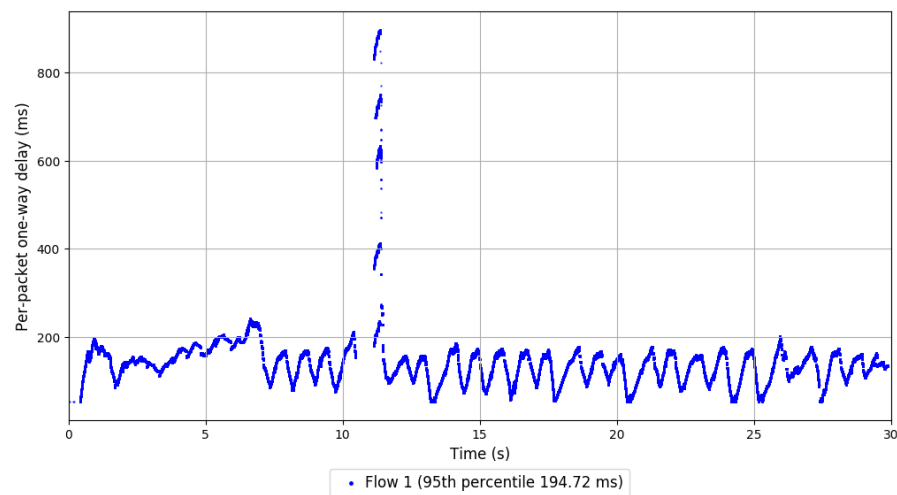
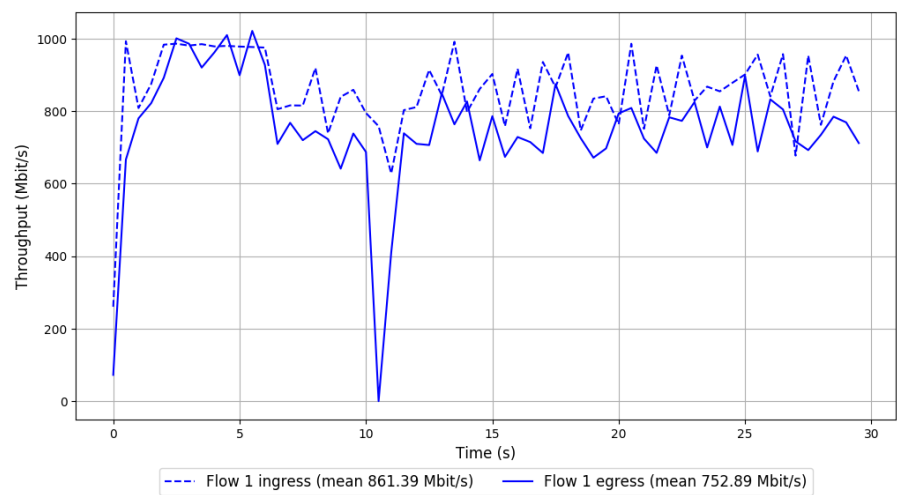
Average throughput: 752.89 Mbit/s

95th percentile per-packet one-way delay: 194.718 ms

Loss rate: 12.91%



Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-13 05:46:58

End at: 2018-03-13 05:47:28

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 789.28 Mbit/s

95th percentile per-packet one-way delay: 154.269 ms

Loss rate: 11.39%

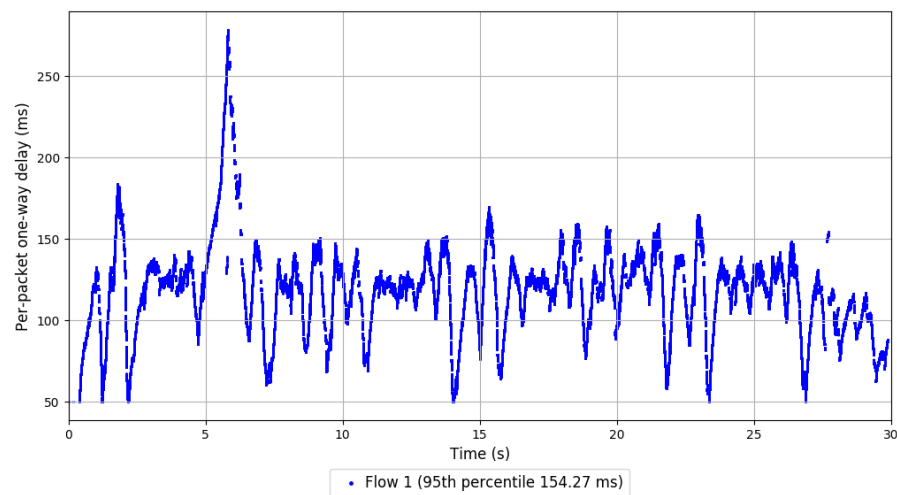
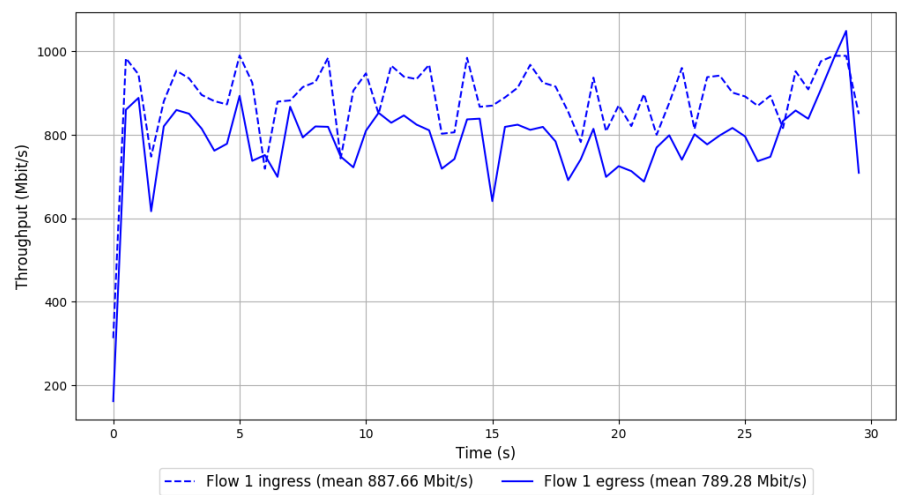
-- Flow 1:

Average throughput: 789.28 Mbit/s

95th percentile per-packet one-way delay: 154.269 ms

Loss rate: 11.39%

Run 10: Report of FillP — Data Link

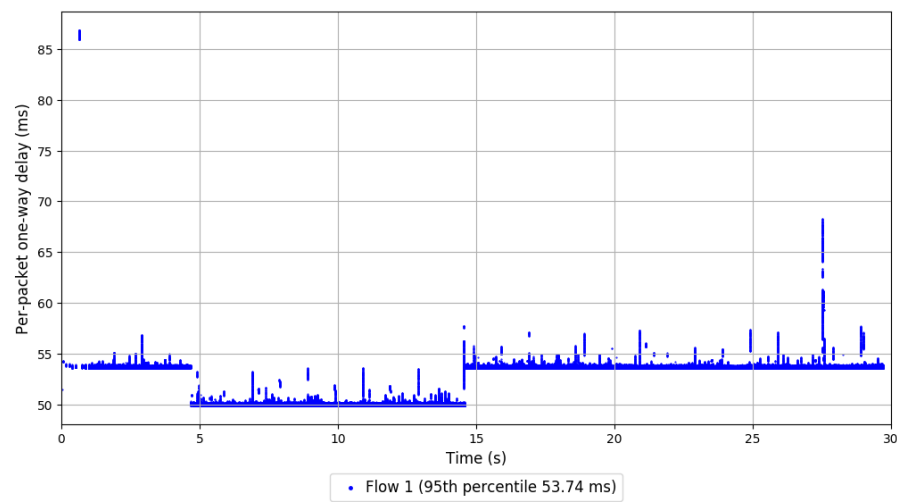
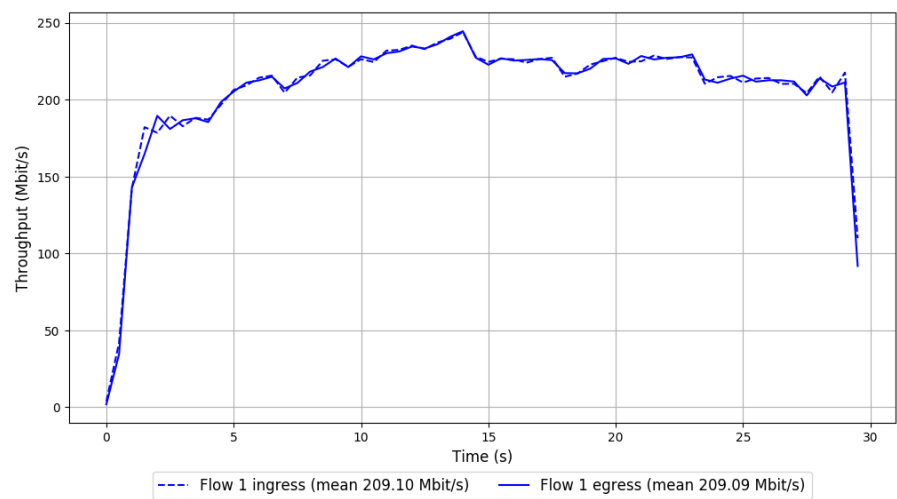


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-13 03:42:53
End at: 2018-03-13 03:43:23

# Below is generated by plot.py at 2018-03-13 09:57:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.09 Mbit/s
95th percentile per-packet one-way delay: 53.736 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 209.09 Mbit/s
95th percentile per-packet one-way delay: 53.736 ms
Loss rate: 0.35%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-13 03:57:20

End at: 2018-03-13 03:57:50

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 218.14 Mbit/s

95th percentile per-packet one-way delay: 53.781 ms

Loss rate: 0.34%

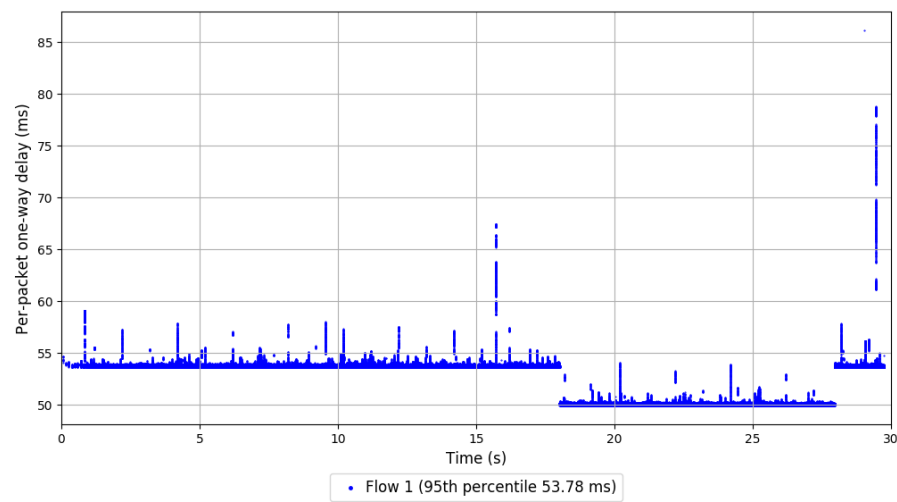
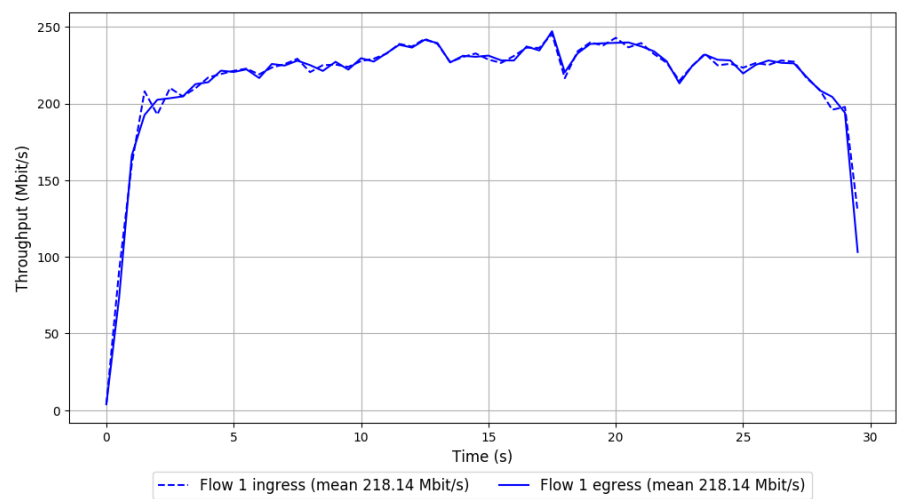
-- Flow 1:

Average throughput: 218.14 Mbit/s

95th percentile per-packet one-way delay: 53.781 ms

Loss rate: 0.34%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-13 04:11:40

End at: 2018-03-13 04:12:10

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.39 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 0.34%

-- Flow 1:

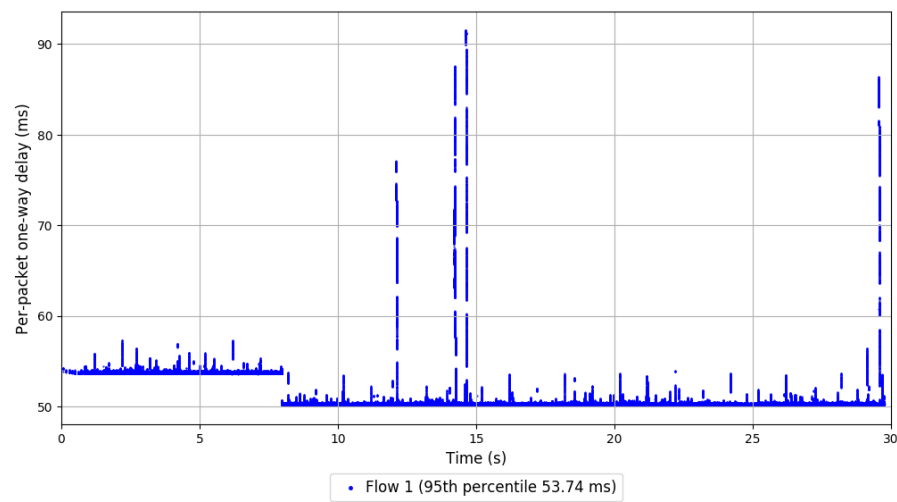
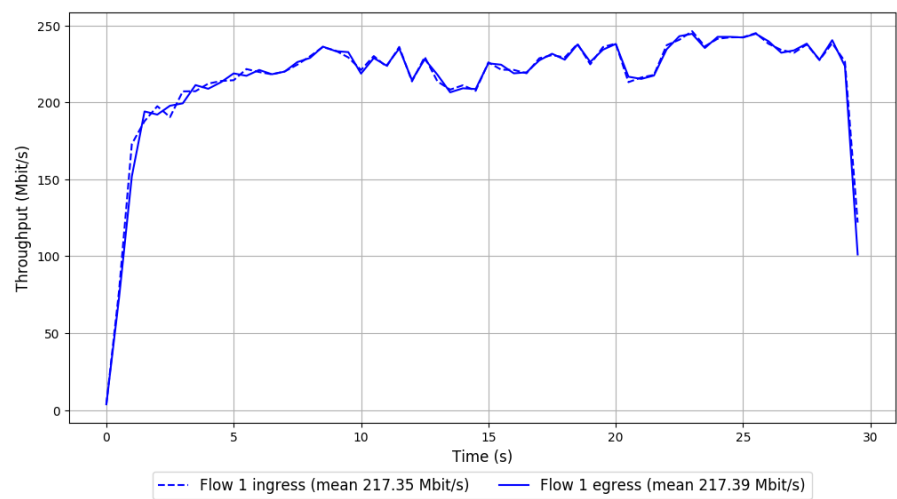
Average throughput: 217.39 Mbit/s

95th percentile per-packet one-way delay: 53.744 ms

Loss rate: 0.34%



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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-13 04:25:46

End at: 2018-03-13 04:26:16

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.14 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.38%

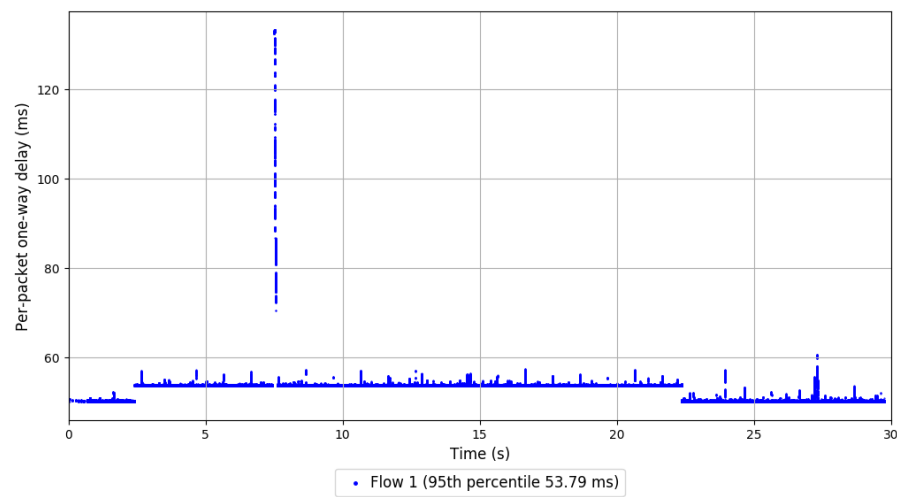
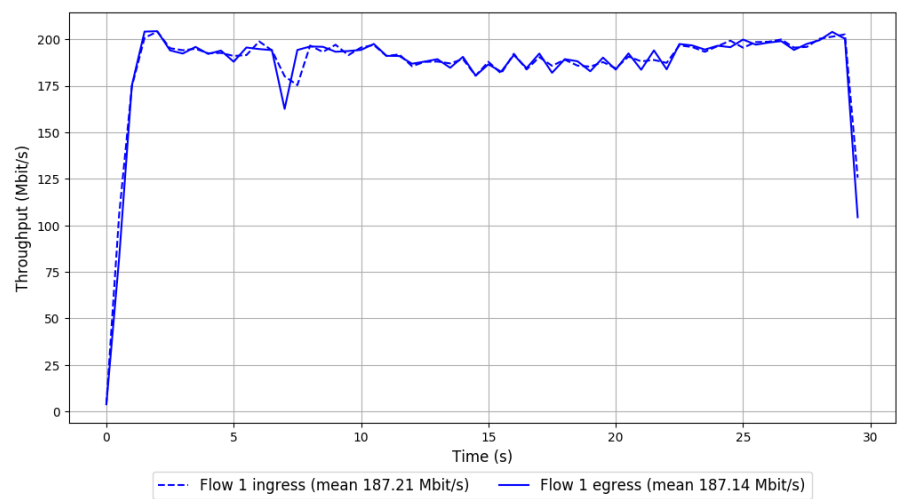
-- Flow 1:

Average throughput: 187.14 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.38%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-13 04:40:21

End at: 2018-03-13 04:40:51

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 190.81 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.35%

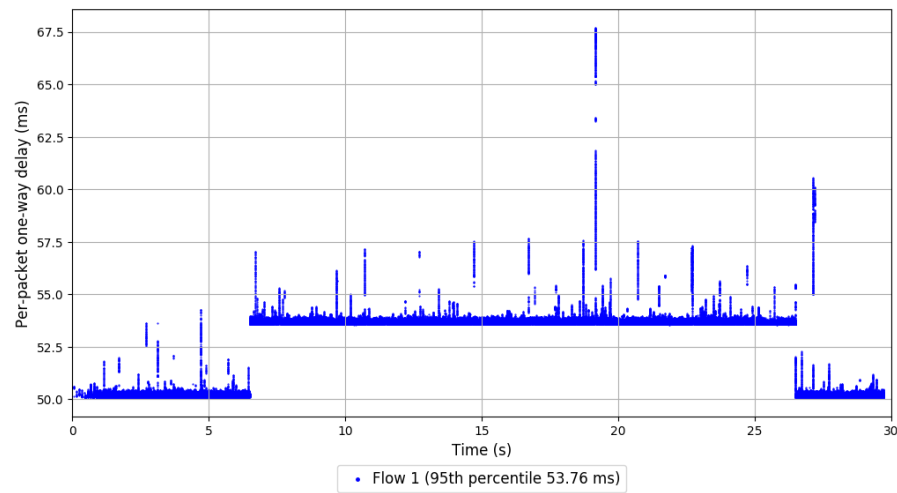
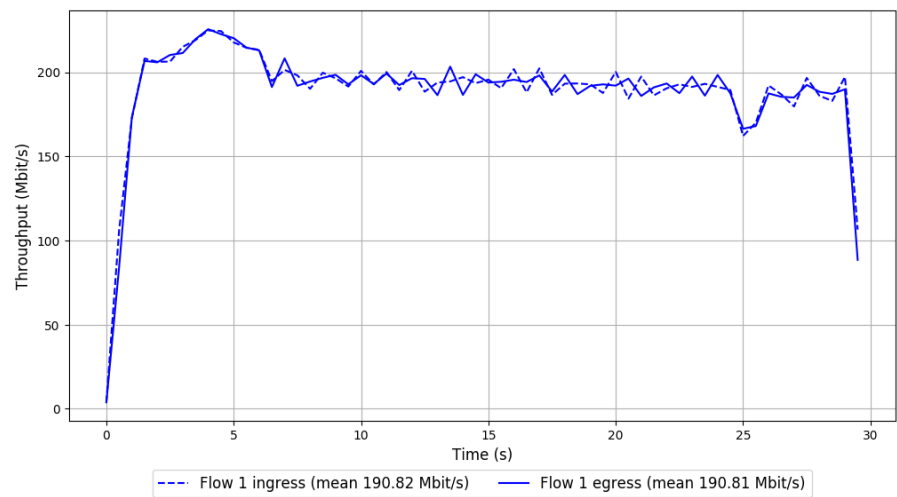
-- Flow 1:

Average throughput: 190.81 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.35%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-13 04:54:42

End at: 2018-03-13 04:55:12

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 215.65 Mbit/s

95th percentile per-packet one-way delay: 53.717 ms

Loss rate: 0.39%

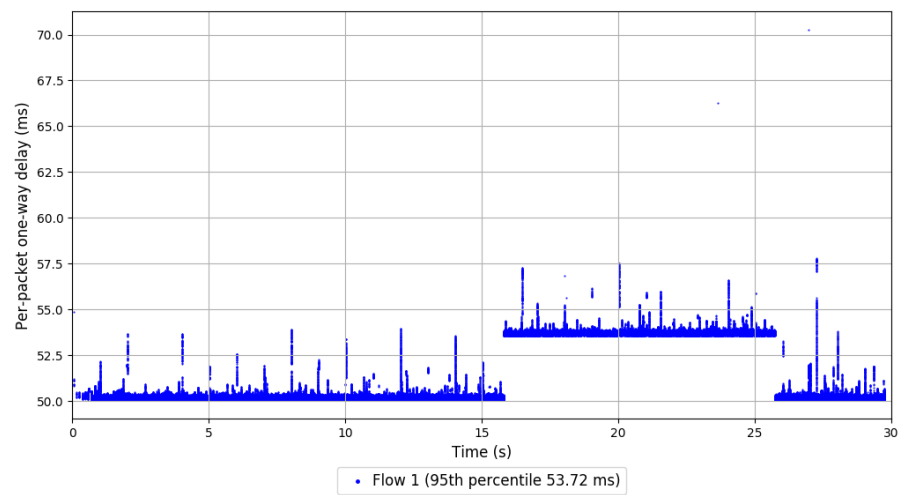
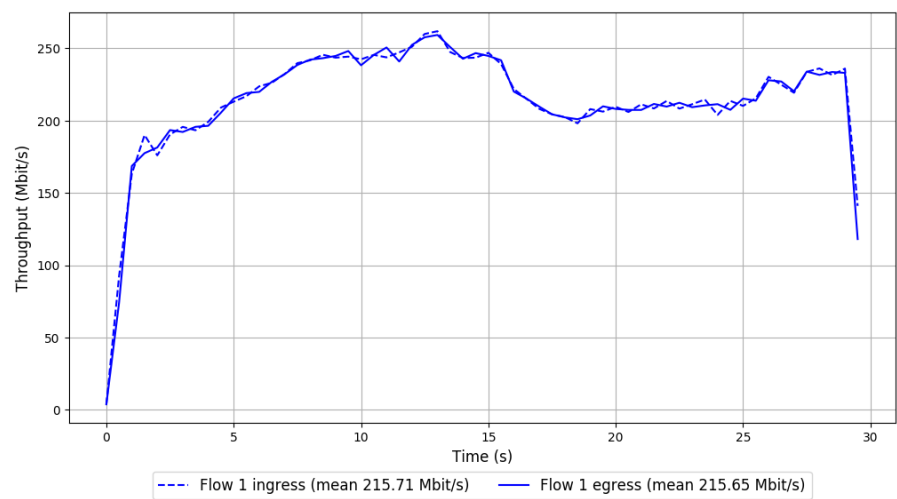
-- Flow 1:

Average throughput: 215.65 Mbit/s

95th percentile per-packet one-way delay: 53.717 ms

Loss rate: 0.39%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-13 05:09:12

End at: 2018-03-13 05:09:42

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.26 Mbit/s

95th percentile per-packet one-way delay: 53.732 ms

Loss rate: 0.37%

-- Flow 1:

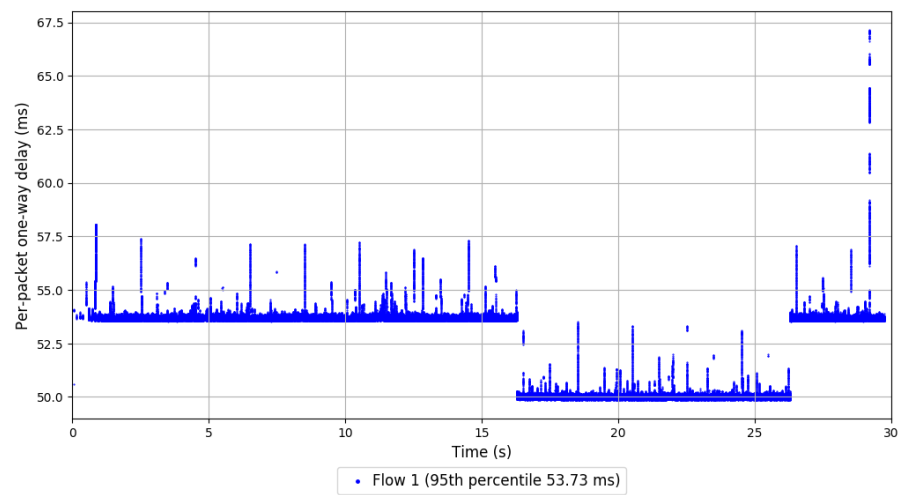
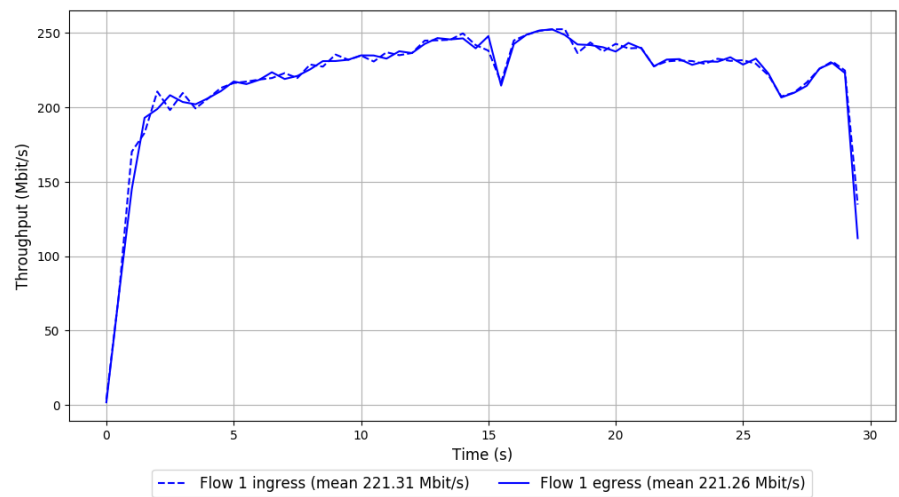
Average throughput: 221.26 Mbit/s

95th percentile per-packet one-way delay: 53.732 ms

Loss rate: 0.37%



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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-13 05:23:51

End at: 2018-03-13 05:24:21

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.01 Mbit/s

95th percentile per-packet one-way delay: 53.850 ms

Loss rate: 0.40%

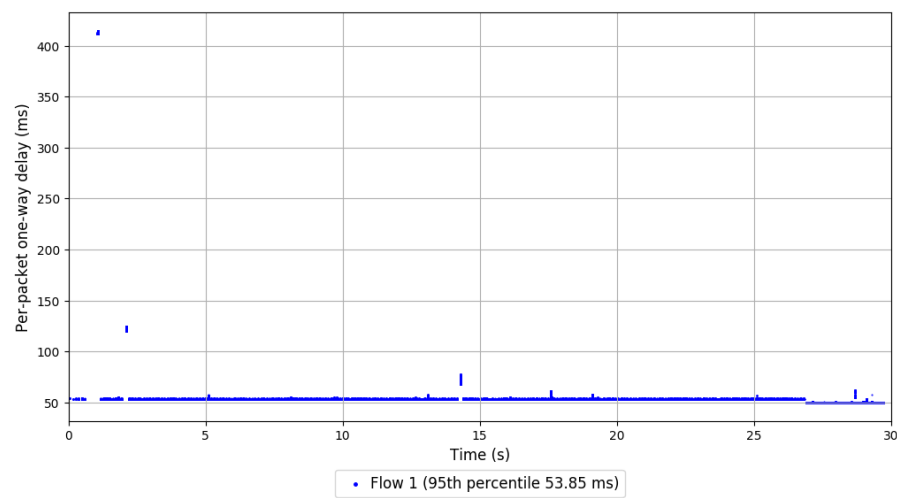
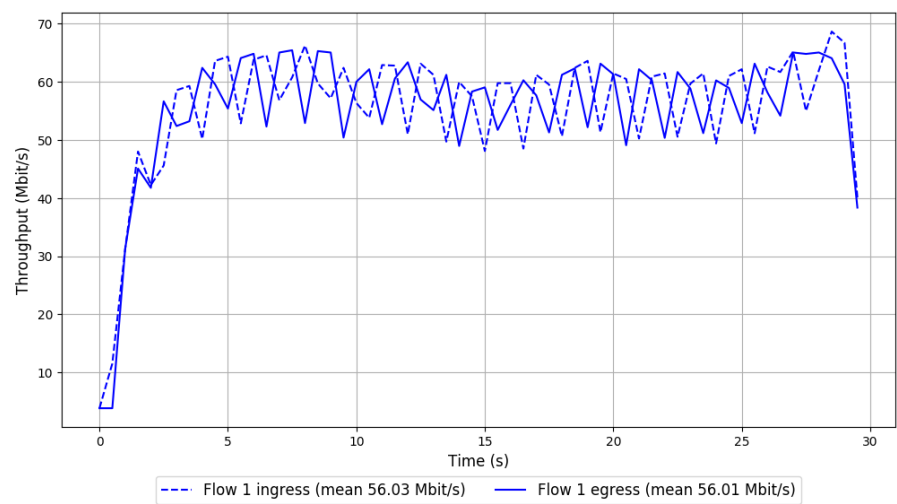
-- Flow 1:

Average throughput: 56.01 Mbit/s

95th percentile per-packet one-way delay: 53.850 ms

Loss rate: 0.40%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-13 05:38:04

End at: 2018-03-13 05:38:34

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 208.08 Mbit/s

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

Loss rate: 0.36%

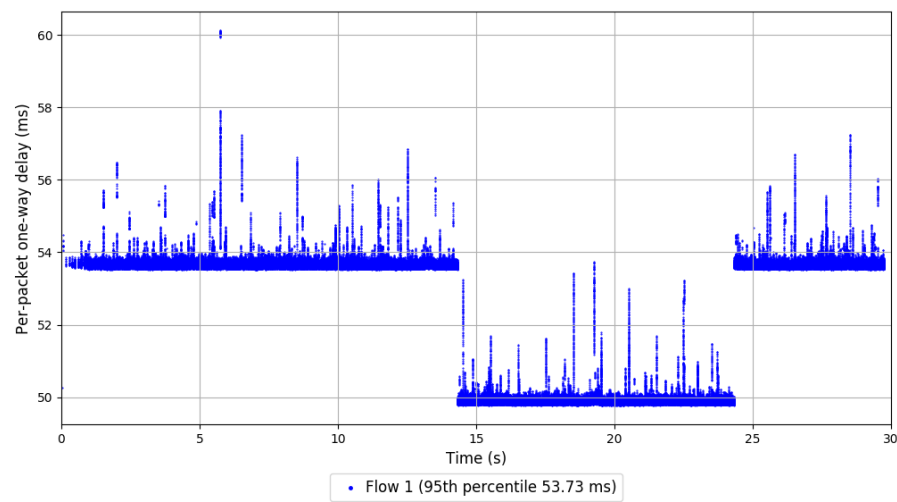
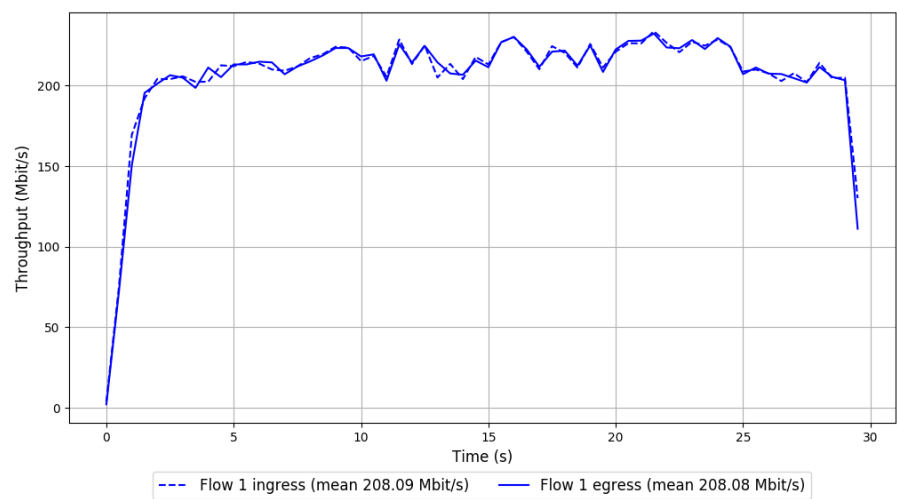
-- Flow 1:

Average throughput: 208.08 Mbit/s

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

Loss rate: 0.36%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-13 05:52:24

End at: 2018-03-13 05:52:54

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 199.42 Mbit/s

95th percentile per-packet one-way delay: 53.490 ms

Loss rate: 0.46%

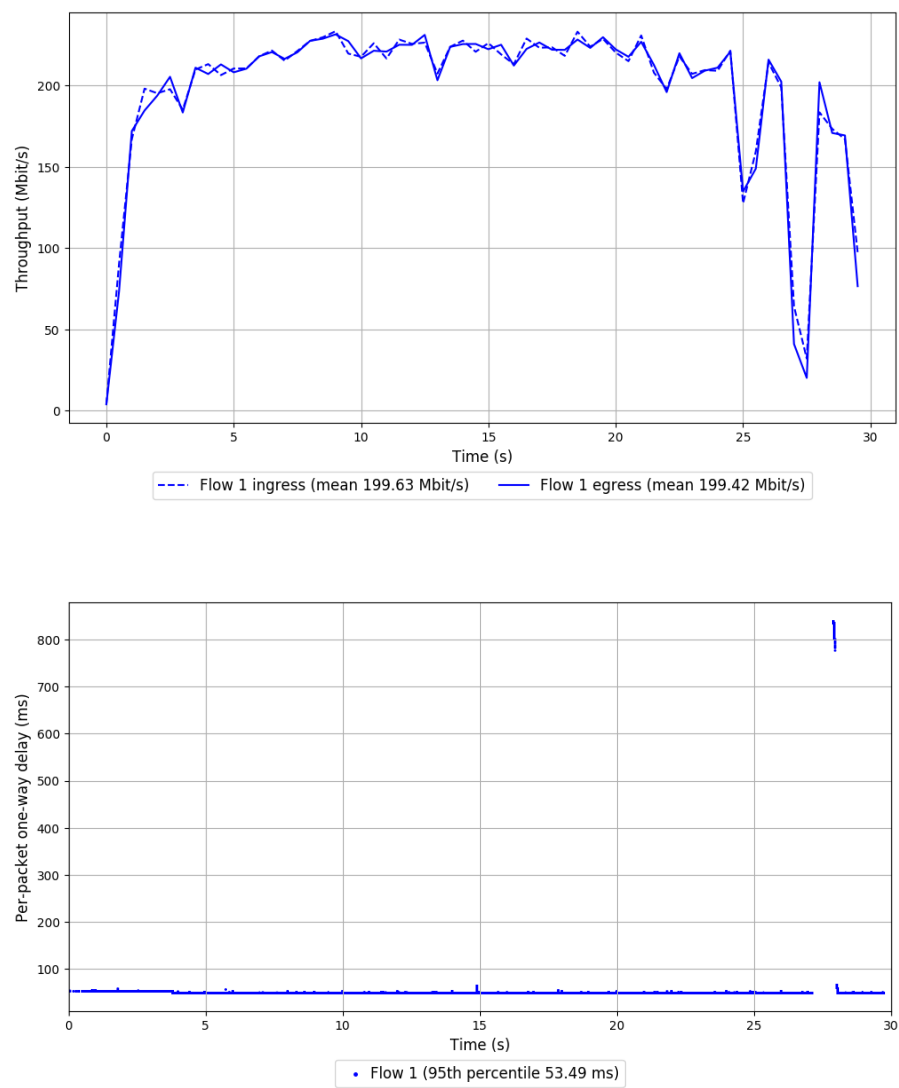
-- Flow 1:

Average throughput: 199.42 Mbit/s

95th percentile per-packet one-way delay: 53.490 ms

Loss rate: 0.46%

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



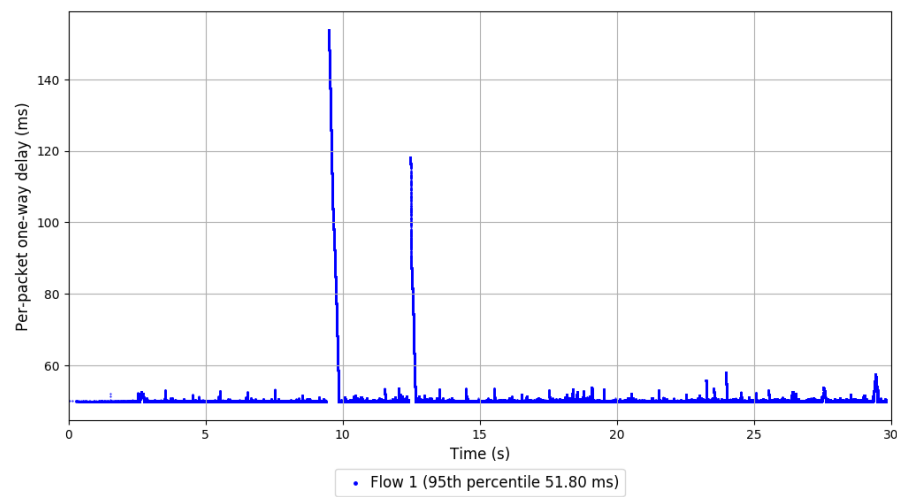
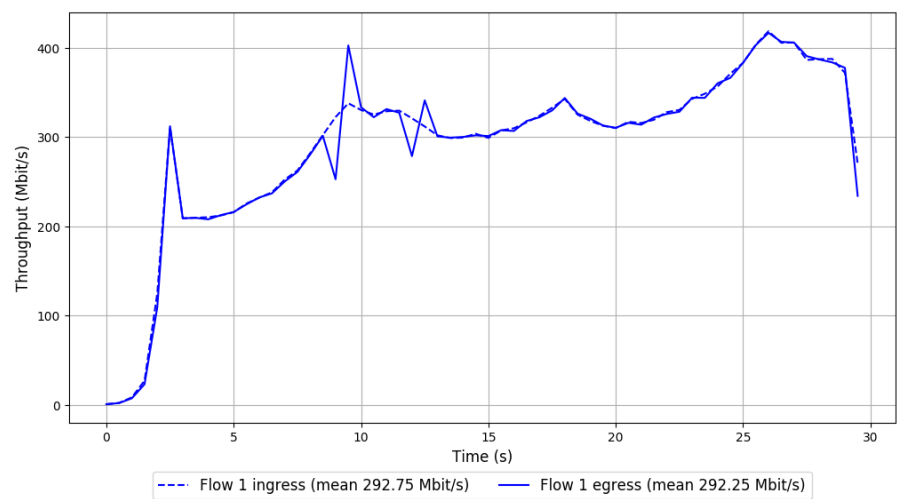
```
Run 1: Statistics of Vivace-latency

Start at: 2018-03-13 03:43:43
End at: 2018-03-13 03:44:13

# Below is generated by plot.py at 2018-03-13 09:57:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.25 Mbit/s
95th percentile per-packet one-way delay: 51.802 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 292.25 Mbit/s
95th percentile per-packet one-way delay: 51.802 ms
Loss rate: 0.51%
```



Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-13 03:58:10

End at: 2018-03-13 03:58:40

# Below is generated by plot.py at 2018-03-13 09:57:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 312.67 Mbit/s

95th percentile per-packet one-way delay: 64.113 ms

Loss rate: 0.43%

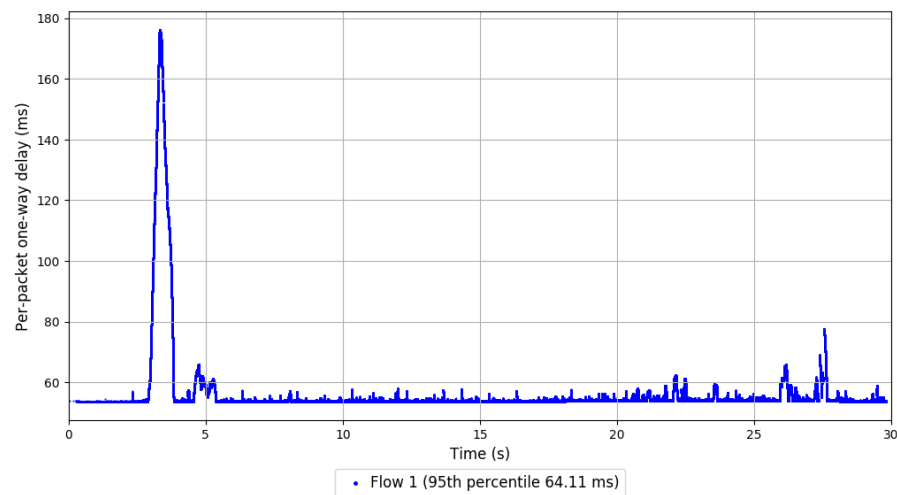
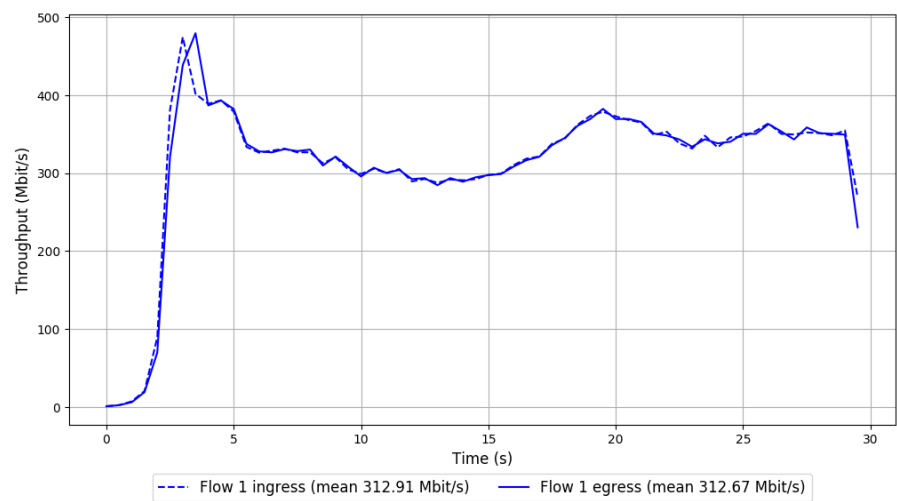
-- Flow 1:

Average throughput: 312.67 Mbit/s

95th percentile per-packet one-way delay: 64.113 ms

Loss rate: 0.43%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-13 04:12:30

End at: 2018-03-13 04:13:00

# Below is generated by plot.py at 2018-03-13 09:58:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 247.72 Mbit/s

95th percentile per-packet one-way delay: 139.300 ms

Loss rate: 0.46%

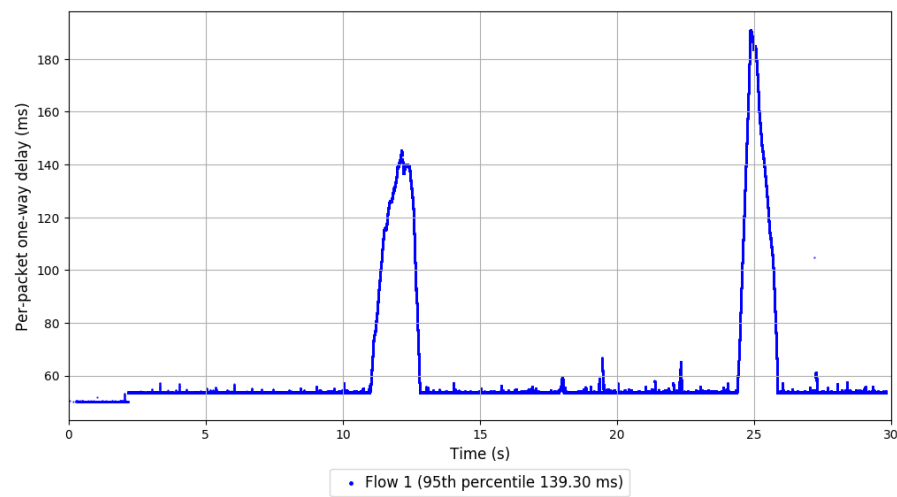
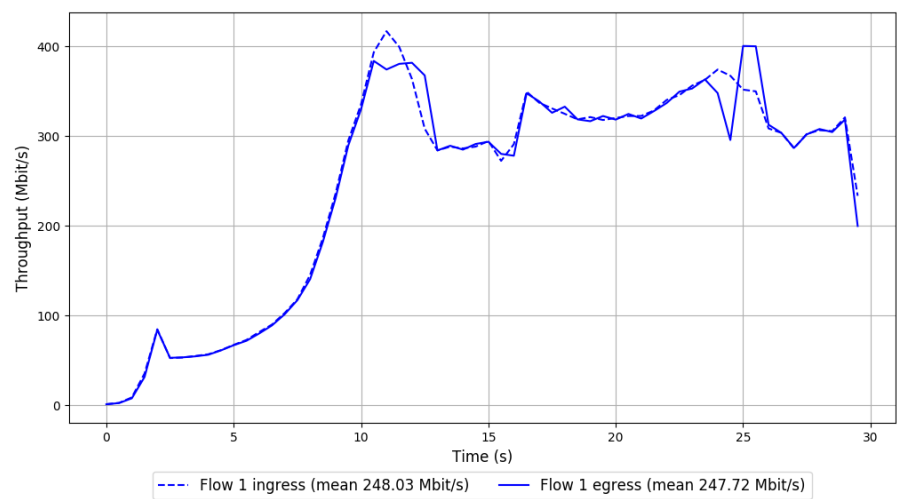
-- Flow 1:

Average throughput: 247.72 Mbit/s

95th percentile per-packet one-way delay: 139.300 ms

Loss rate: 0.46%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-13 04:26:34

End at: 2018-03-13 04:27:04

# Below is generated by plot.py at 2018-03-13 09:59:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 306.14 Mbit/s

95th percentile per-packet one-way delay: 52.497 ms

Loss rate: 0.38%

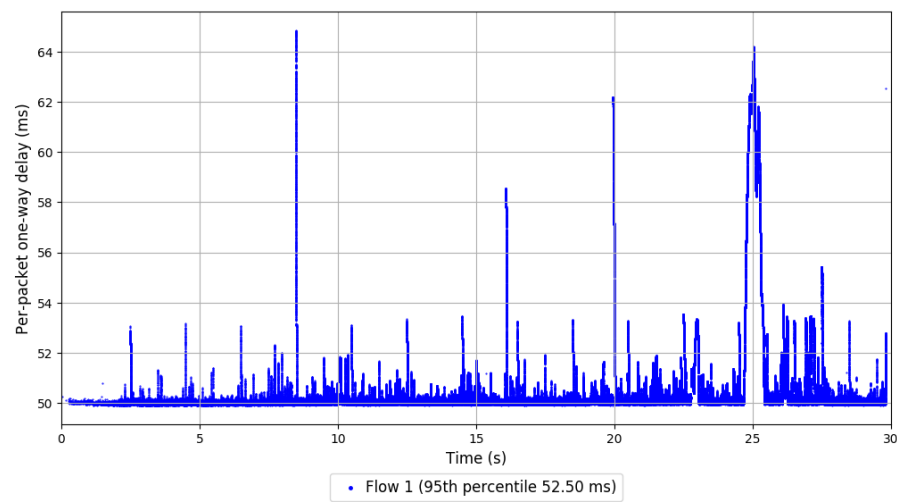
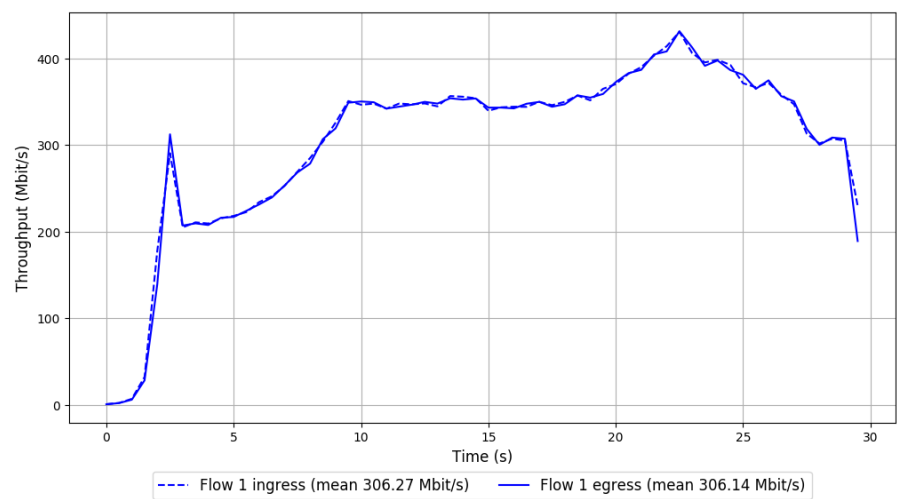
-- Flow 1:

Average throughput: 306.14 Mbit/s

95th percentile per-packet one-way delay: 52.497 ms

Loss rate: 0.38%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-13 04:41:10

End at: 2018-03-13 04:41:40

# Below is generated by plot.py at 2018-03-13 10:00:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 311.91 Mbit/s

95th percentile per-packet one-way delay: 65.276 ms

Loss rate: 0.33%

-- Flow 1:

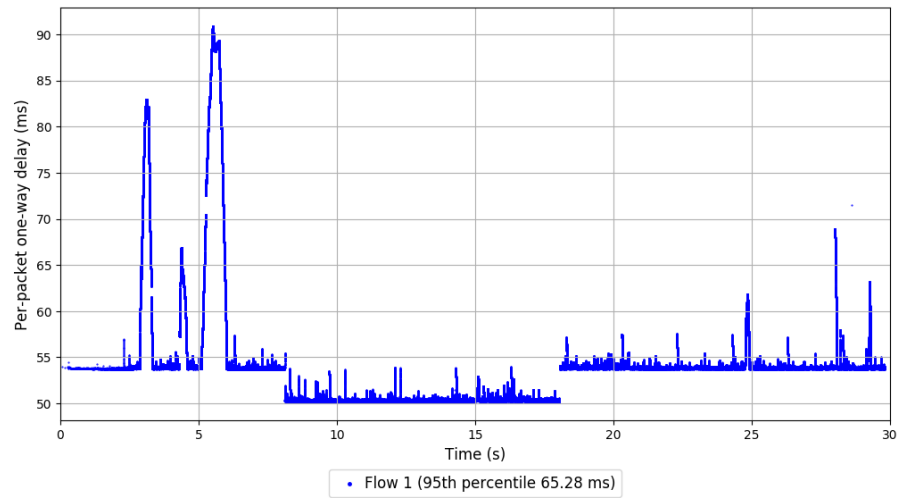
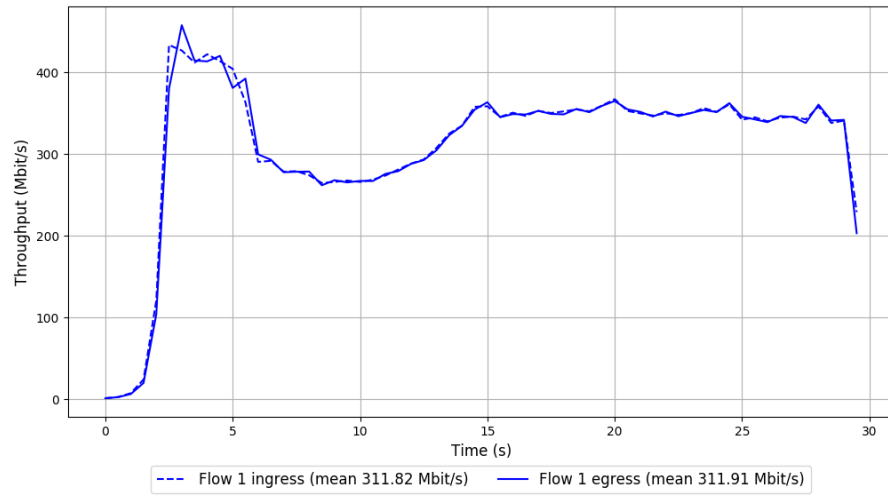
Average throughput: 311.91 Mbit/s

95th percentile per-packet one-way delay: 65.276 ms

Loss rate: 0.33%



### Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-13 04:55:32

End at: 2018-03-13 04:56:02

# Below is generated by plot.py at 2018-03-13 10:01:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 320.83 Mbit/s

95th percentile per-packet one-way delay: 57.483 ms

Loss rate: 0.39%

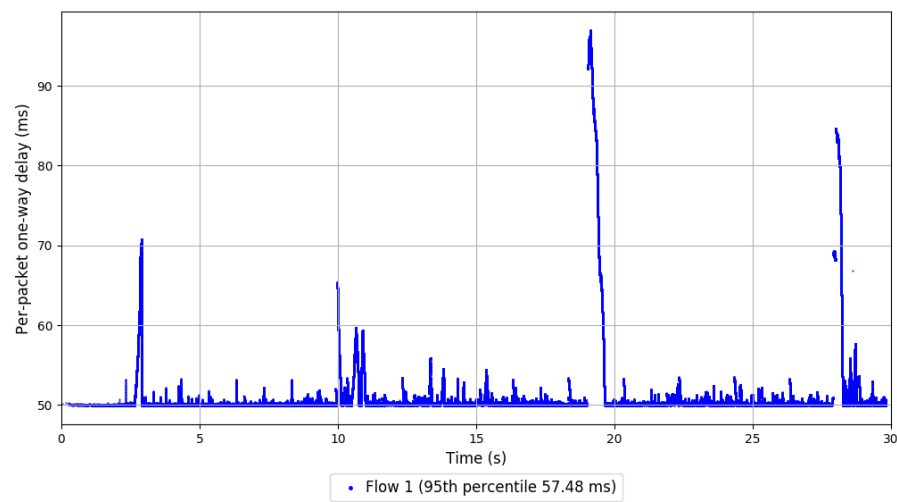
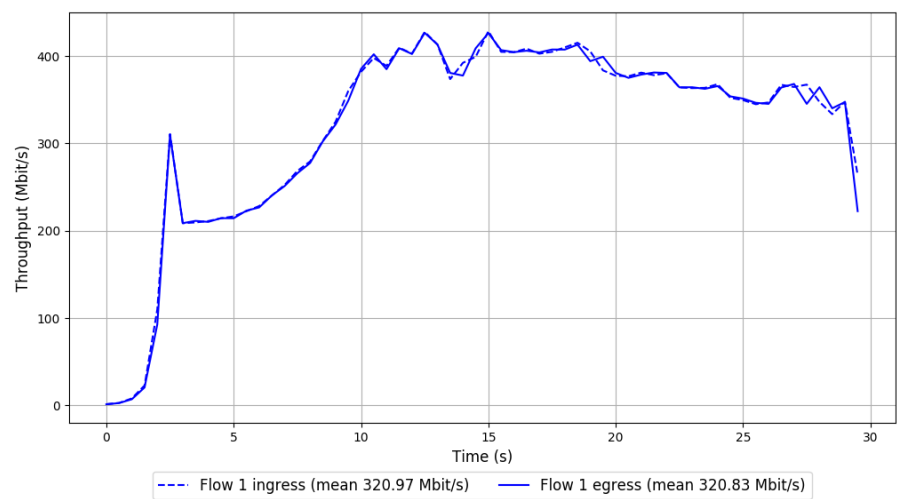
-- Flow 1:

Average throughput: 320.83 Mbit/s

95th percentile per-packet one-way delay: 57.483 ms

Loss rate: 0.39%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-13 05:10:02

End at: 2018-03-13 05:10:32

# Below is generated by plot.py at 2018-03-13 10:02:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 307.50 Mbit/s

95th percentile per-packet one-way delay: 56.483 ms

Loss rate: 0.39%

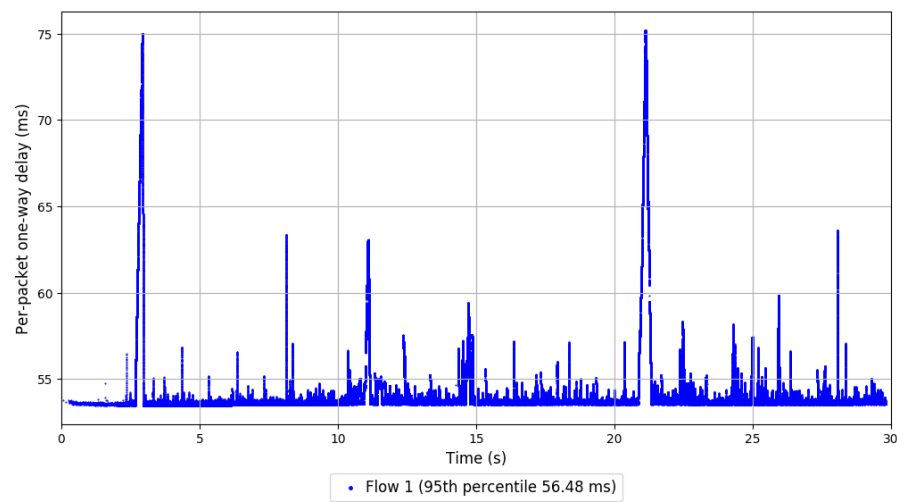
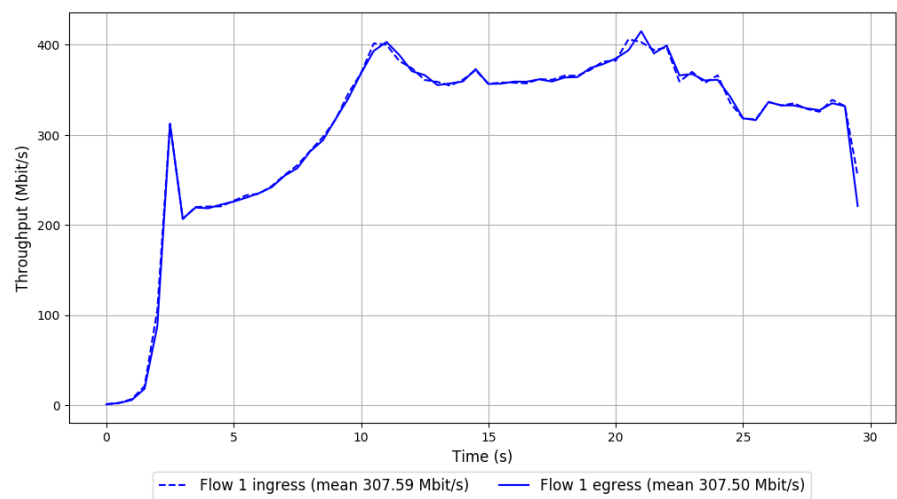
-- Flow 1:

Average throughput: 307.50 Mbit/s

95th percentile per-packet one-way delay: 56.483 ms

Loss rate: 0.39%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-13 05:24:31

End at: 2018-03-13 05:25:02

# Below is generated by plot.py at 2018-03-13 10:02:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 290.29 Mbit/s

95th percentile per-packet one-way delay: 100.628 ms

Loss rate: 0.39%

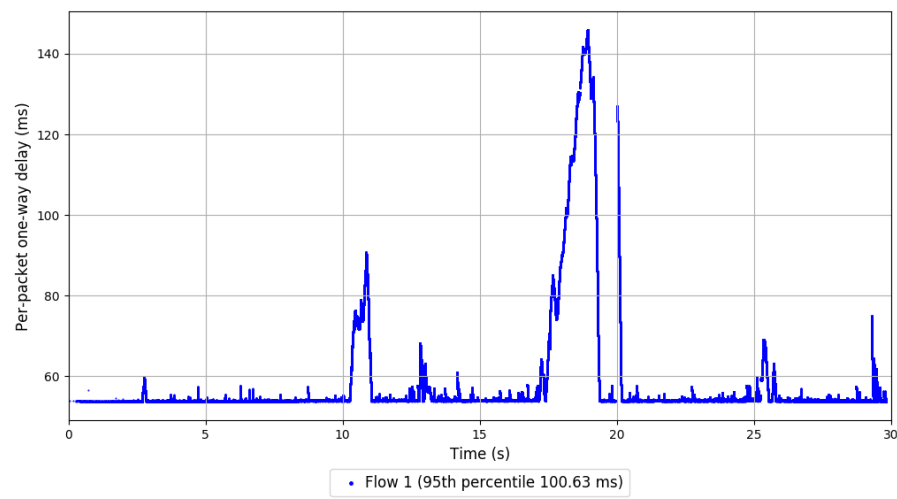
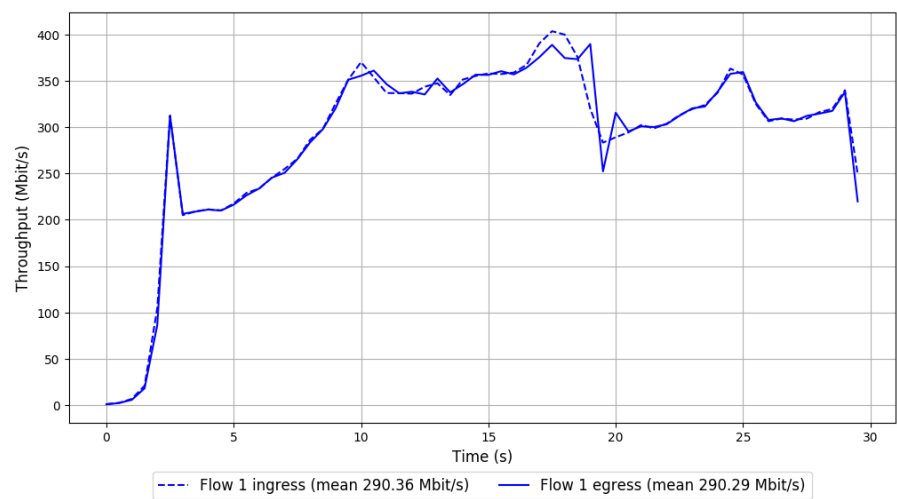
-- Flow 1:

Average throughput: 290.29 Mbit/s

95th percentile per-packet one-way delay: 100.628 ms

Loss rate: 0.39%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-13 05:38:53

End at: 2018-03-13 05:39:23

# Below is generated by plot.py at 2018-03-13 10:04:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 332.29 Mbit/s

95th percentile per-packet one-way delay: 54.317 ms

Loss rate: 0.40%

-- Flow 1:

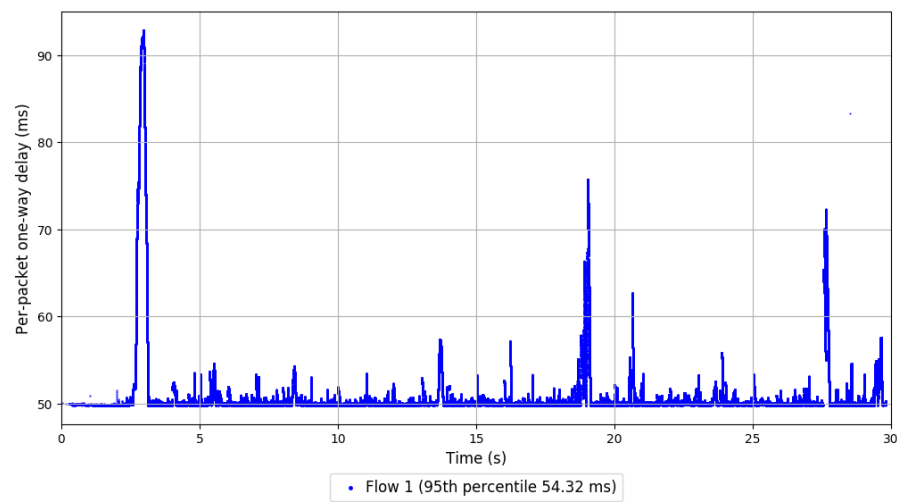
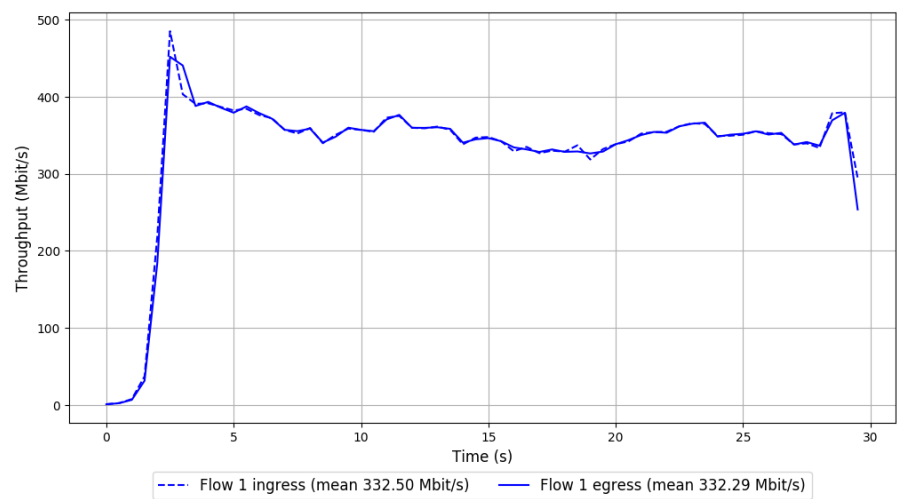
Average throughput: 332.29 Mbit/s

95th percentile per-packet one-way delay: 54.317 ms

Loss rate: 0.40%



Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

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

End at: 2018-03-13 05:53:43

# Below is generated by plot.py at 2018-03-13 10:04:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.33 Mbit/s

95th percentile per-packet one-way delay: 76.349 ms

Loss rate: 0.41%

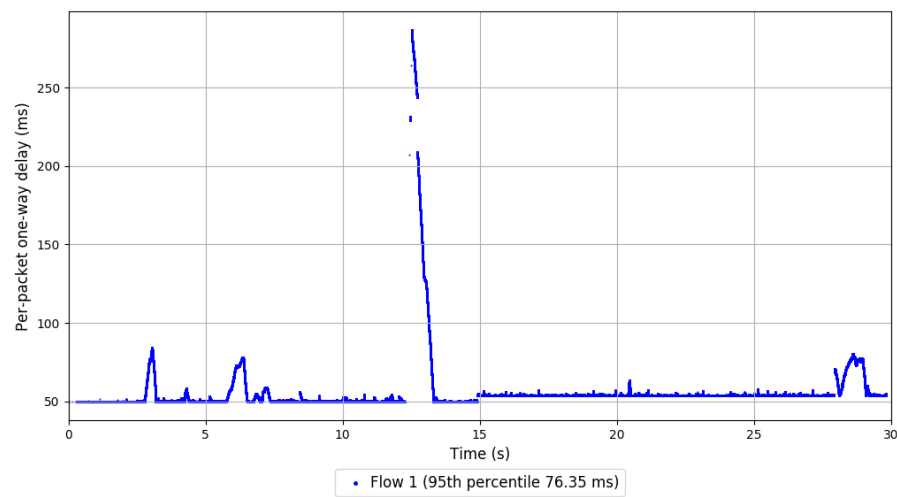
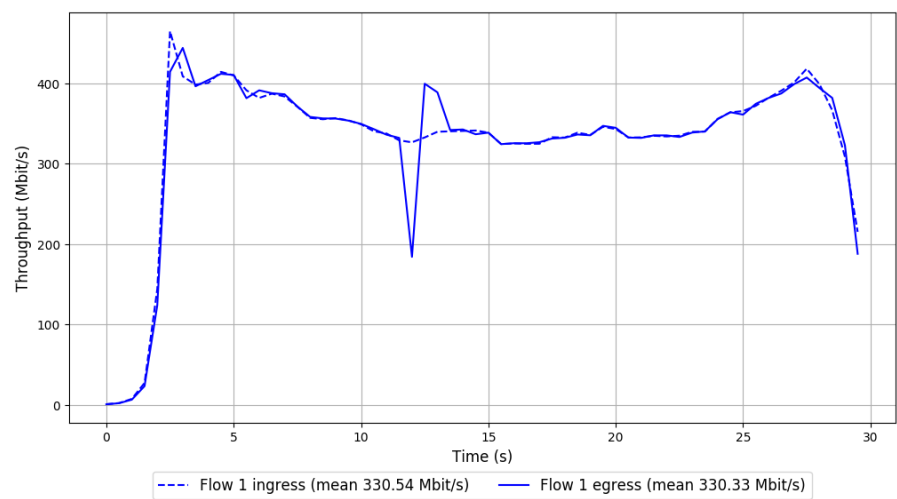
-- Flow 1:

Average throughput: 330.33 Mbit/s

95th percentile per-packet one-way delay: 76.349 ms

Loss rate: 0.41%

Run 10: Report of Vivace-latency — Data Link

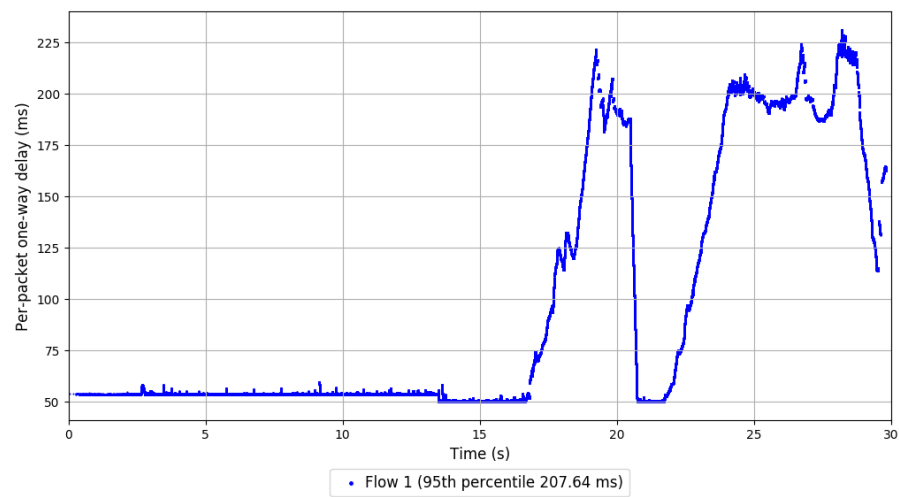
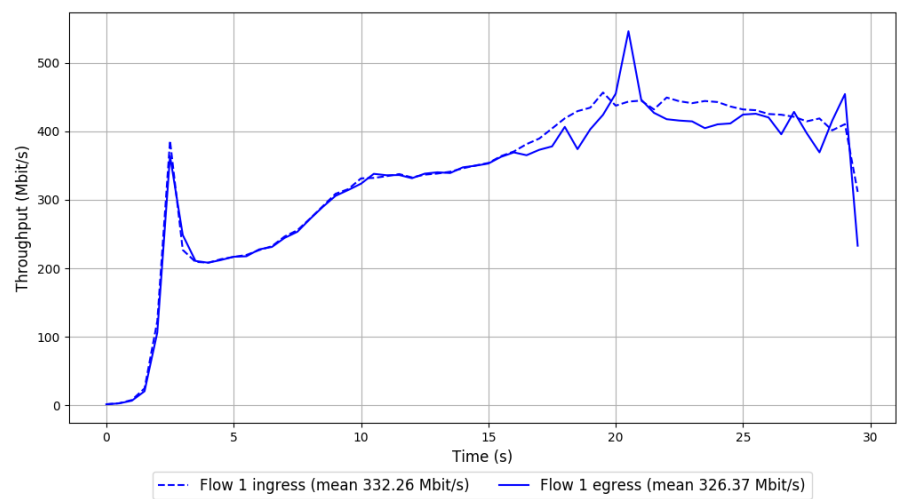


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-13 03:39:44
End at: 2018-03-13 03:40:14

# Below is generated by plot.py at 2018-03-13 10:06:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 326.37 Mbit/s
95th percentile per-packet one-way delay: 207.637 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 326.37 Mbit/s
95th percentile per-packet one-way delay: 207.637 ms
Loss rate: 2.13%
```

Run 1: Report of Vivace-loss — Data Link

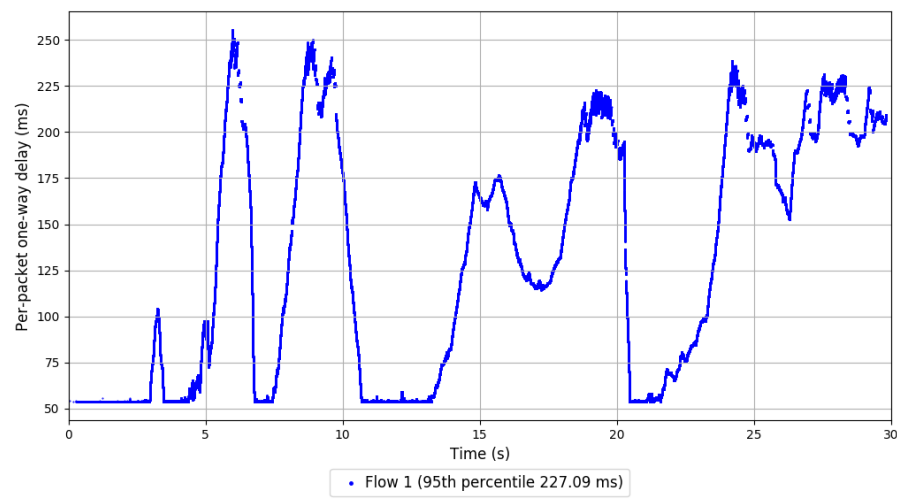
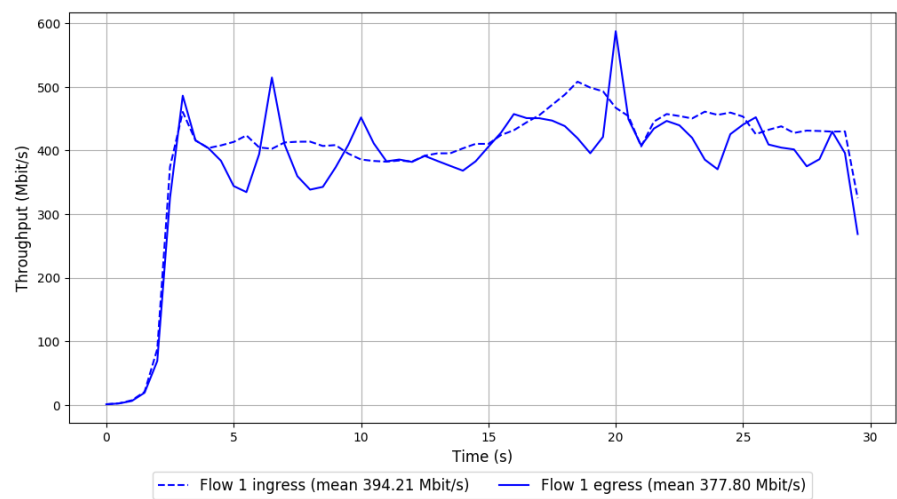


```
Run 2: Statistics of Vivace-loss

Start at: 2018-03-13 03:54:03
End at: 2018-03-13 03:54:33

# Below is generated by plot.py at 2018-03-13 10:09:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.80 Mbit/s
95th percentile per-packet one-way delay: 227.091 ms
Loss rate: 4.50%
-- Flow 1:
Average throughput: 377.80 Mbit/s
95th percentile per-packet one-way delay: 227.091 ms
Loss rate: 4.50%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-13 04:08:26

End at: 2018-03-13 04:08:56

# Below is generated by plot.py at 2018-03-13 10:09:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 299.76 Mbit/s

95th percentile per-packet one-way delay: 218.564 ms

Loss rate: 4.37%

-- Flow 1:

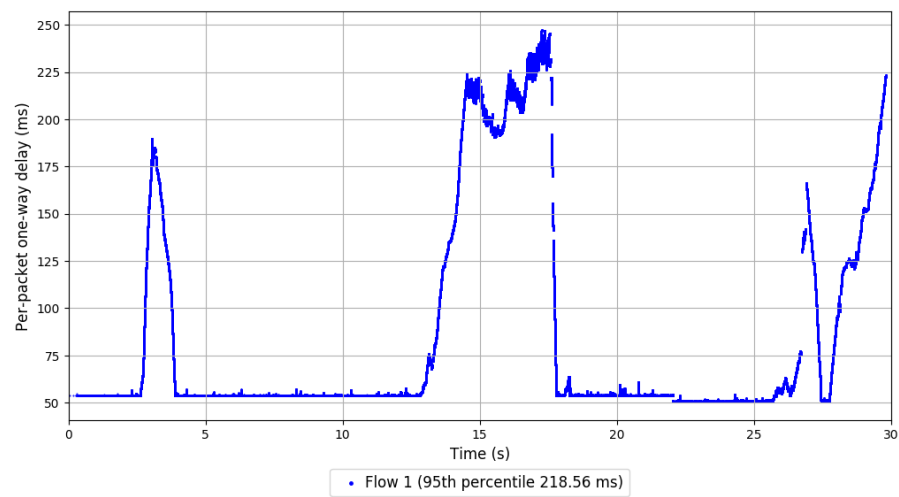
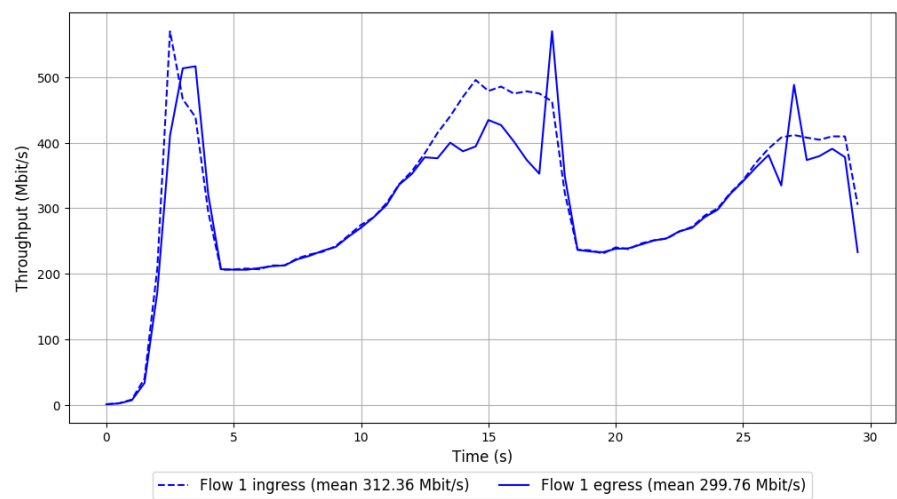
Average throughput: 299.76 Mbit/s

95th percentile per-packet one-way delay: 218.564 ms

Loss rate: 4.37%



Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-13 04:22:30

End at: 2018-03-13 04:23:00

# Below is generated by plot.py at 2018-03-13 10:09:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 354.37 Mbit/s

95th percentile per-packet one-way delay: 221.256 ms

Loss rate: 5.09%

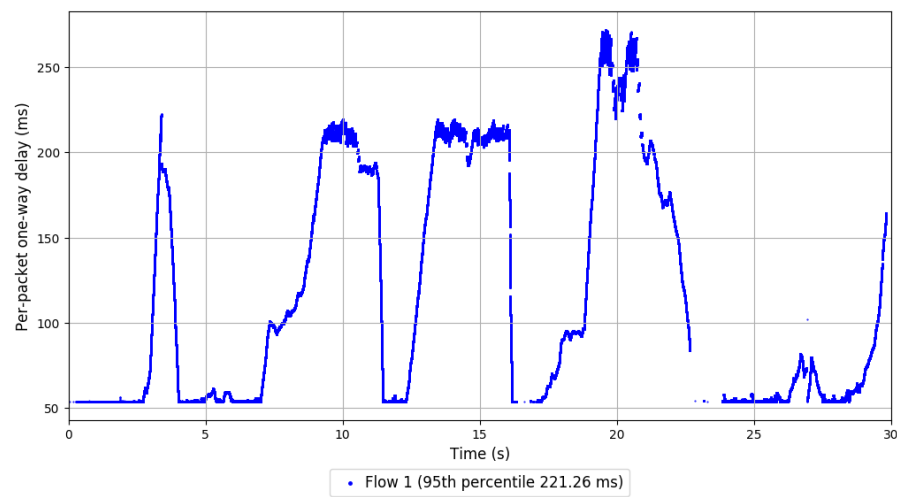
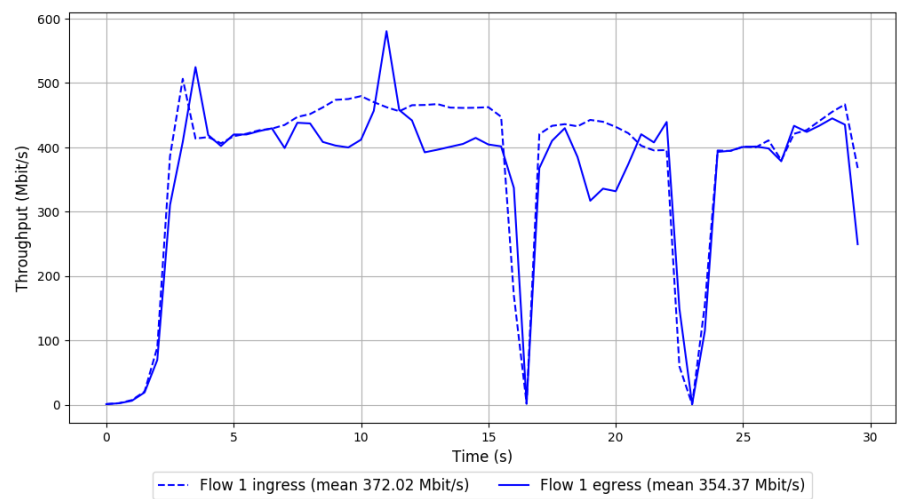
-- Flow 1:

Average throughput: 354.37 Mbit/s

95th percentile per-packet one-way delay: 221.256 ms

Loss rate: 5.09%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-13 04:36:58

End at: 2018-03-13 04:37:28

# Below is generated by plot.py at 2018-03-13 10:11:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 352.30 Mbit/s

95th percentile per-packet one-way delay: 204.281 ms

Loss rate: 1.77%

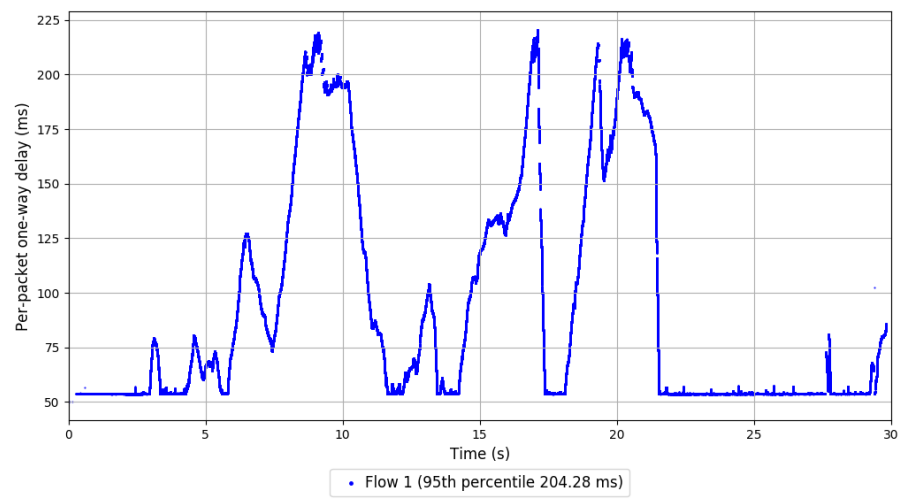
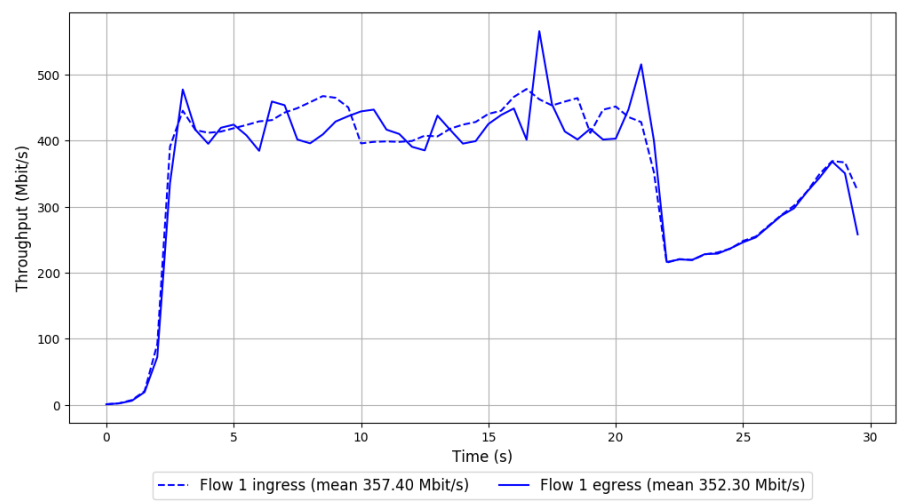
-- Flow 1:

Average throughput: 352.30 Mbit/s

95th percentile per-packet one-way delay: 204.281 ms

Loss rate: 1.77%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-13 04:51:27

End at: 2018-03-13 04:51:57

# Below is generated by plot.py at 2018-03-13 10:11:09

# Datalink statistics

-- Total of 1 flow:

Average throughput: 360.40 Mbit/s

95th percentile per-packet one-way delay: 206.854 ms

Loss rate: 1.51%

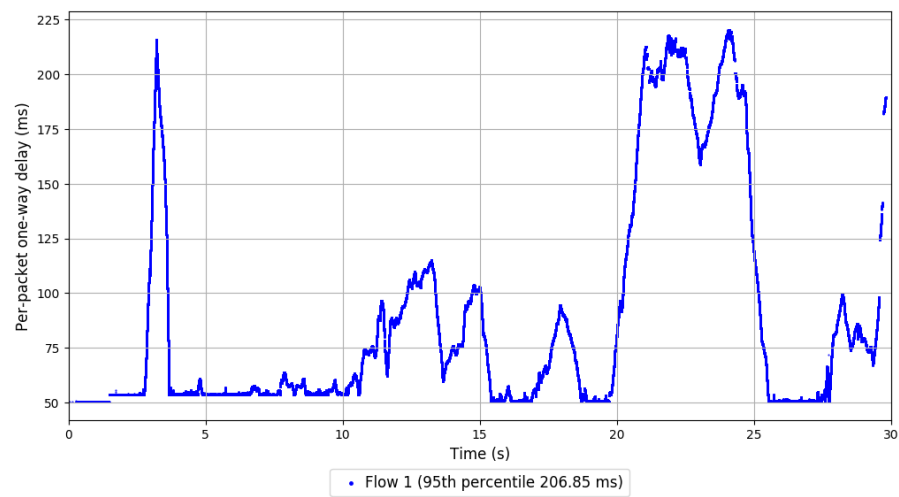
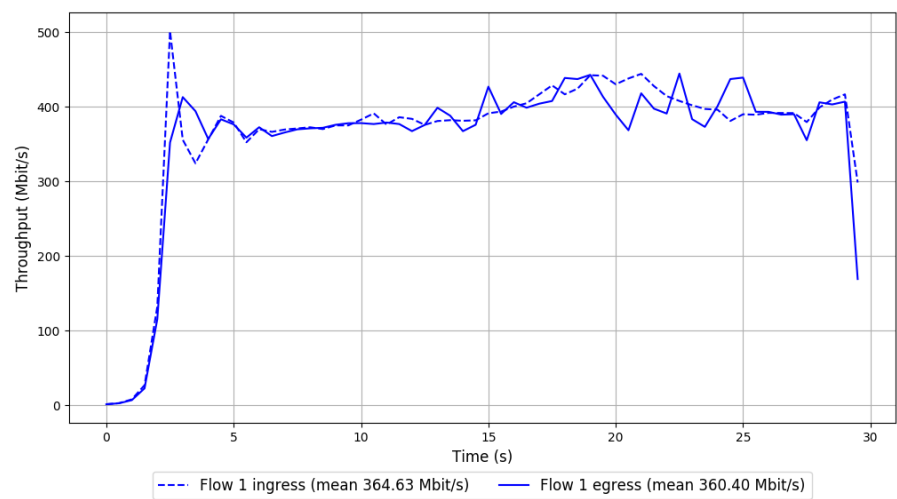
-- Flow 1:

Average throughput: 360.40 Mbit/s

95th percentile per-packet one-way delay: 206.854 ms

Loss rate: 1.51%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-13 05:05:50

End at: 2018-03-13 05:06:20

# Below is generated by plot.py at 2018-03-13 10:11:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 275.15 Mbit/s

95th percentile per-packet one-way delay: 225.372 ms

Loss rate: 8.35%

-- Flow 1:

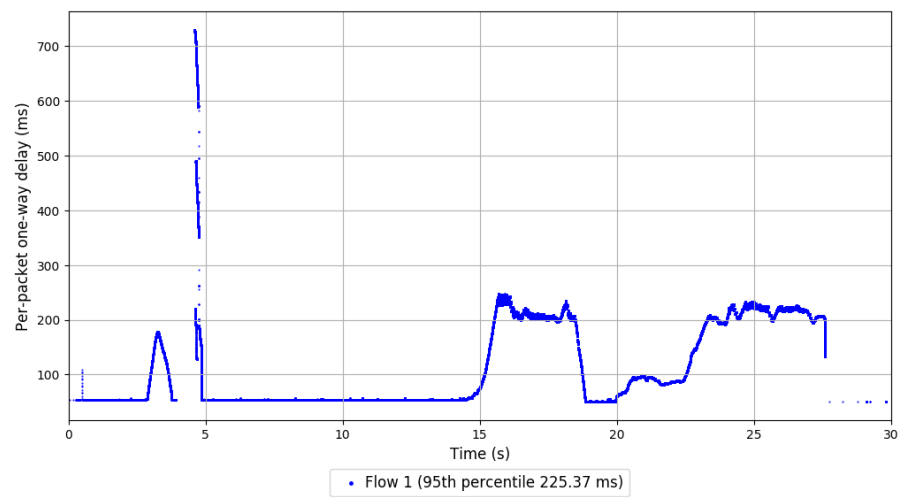
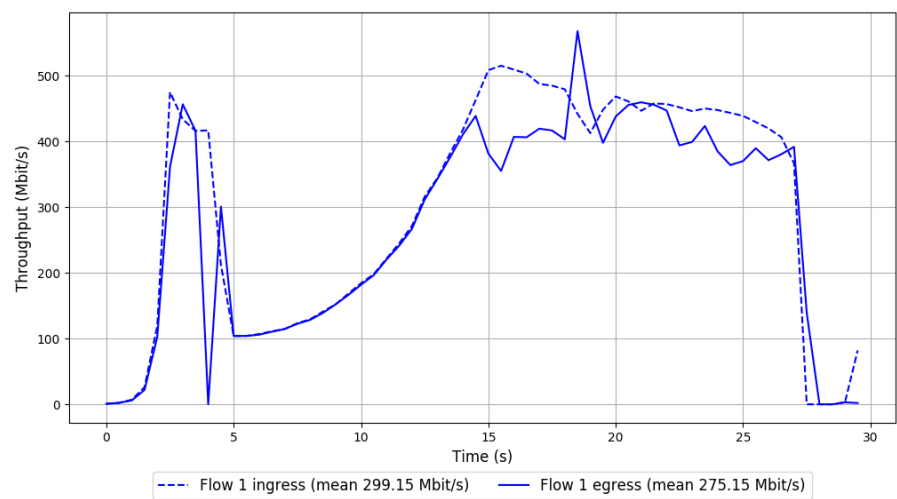
Average throughput: 275.15 Mbit/s

95th percentile per-packet one-way delay: 225.372 ms

Loss rate: 8.35%



Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-13 05:20:17

End at: 2018-03-13 05:20:47

# Below is generated by plot.py at 2018-03-13 10:13:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 352.91 Mbit/s

95th percentile per-packet one-way delay: 207.709 ms

Loss rate: 2.75%

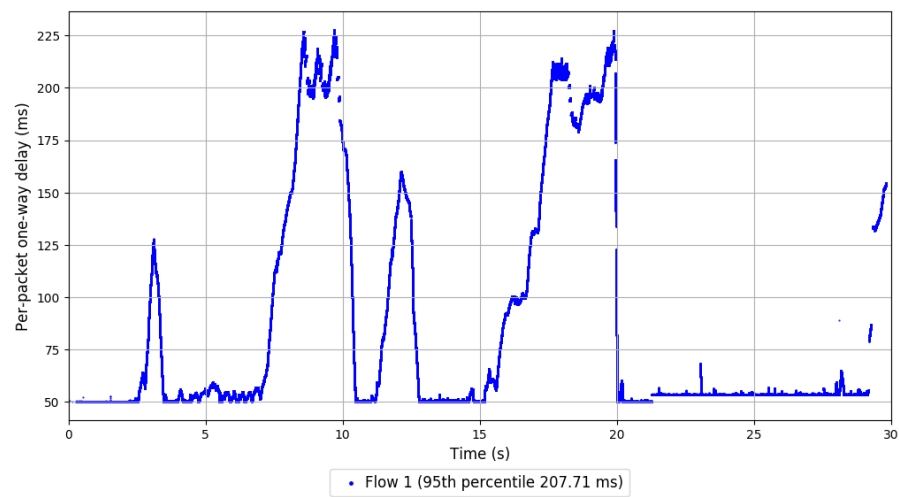
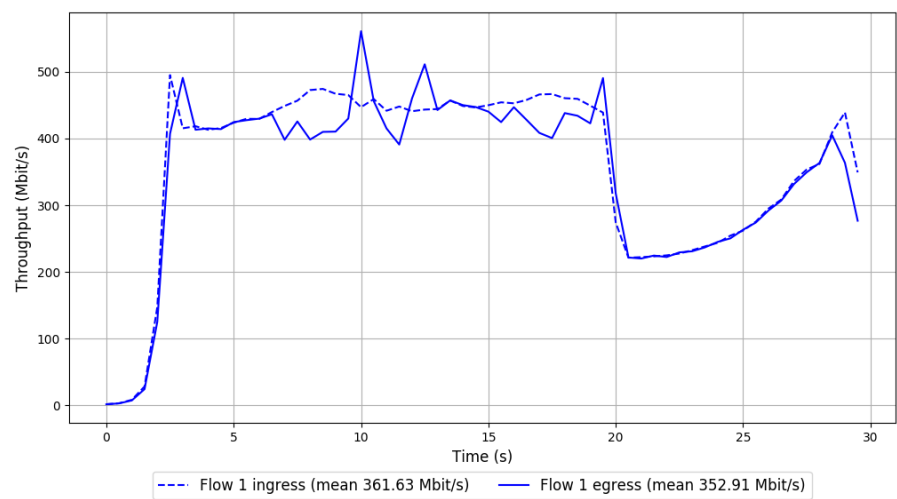
-- Flow 1:

Average throughput: 352.91 Mbit/s

95th percentile per-packet one-way delay: 207.709 ms

Loss rate: 2.75%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-13 05:34:47

End at: 2018-03-13 05:35:17

# Below is generated by plot.py at 2018-03-13 10:15:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 374.62 Mbit/s

95th percentile per-packet one-way delay: 221.430 ms

Loss rate: 4.14%

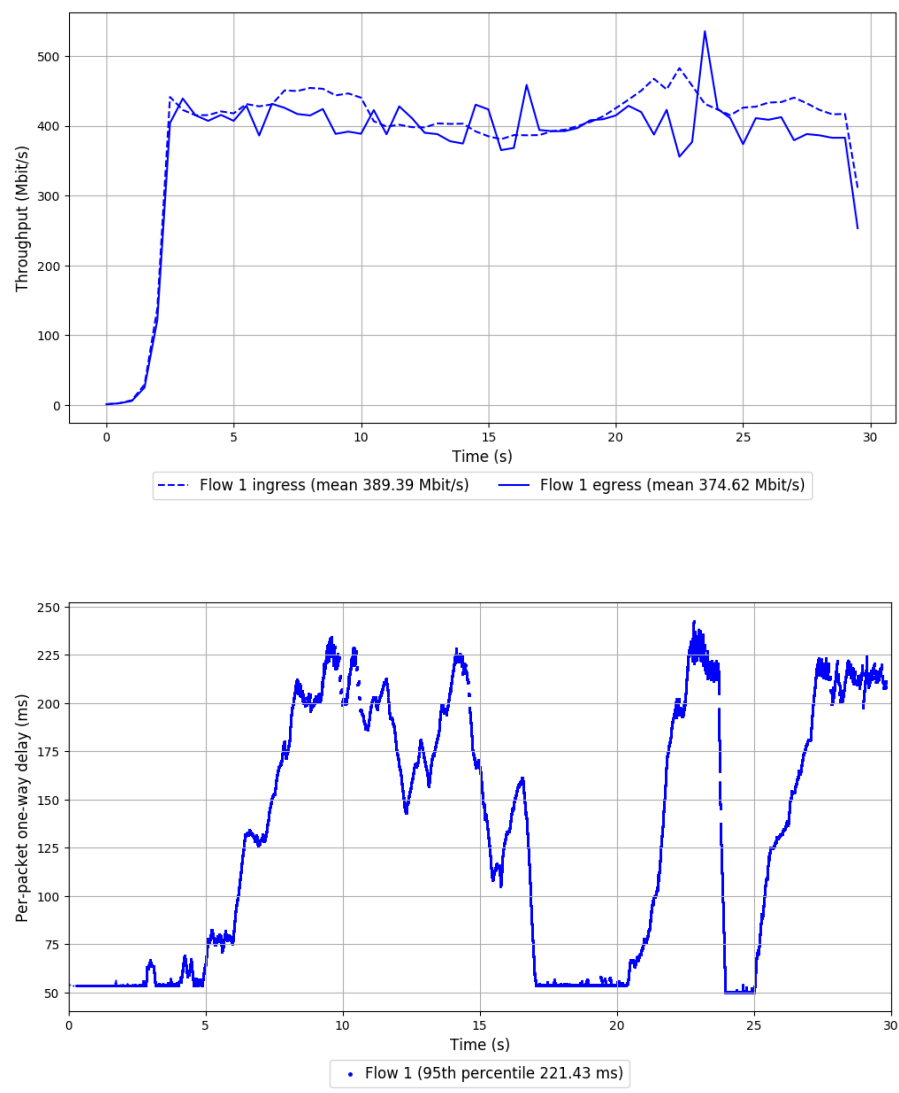
-- Flow 1:

Average throughput: 374.62 Mbit/s

95th percentile per-packet one-way delay: 221.430 ms

Loss rate: 4.14%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-13 05:49:01

End at: 2018-03-13 05:49:31

# Below is generated by plot.py at 2018-03-13 10:15:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 375.90 Mbit/s

95th percentile per-packet one-way delay: 222.786 ms

Loss rate: 4.90%

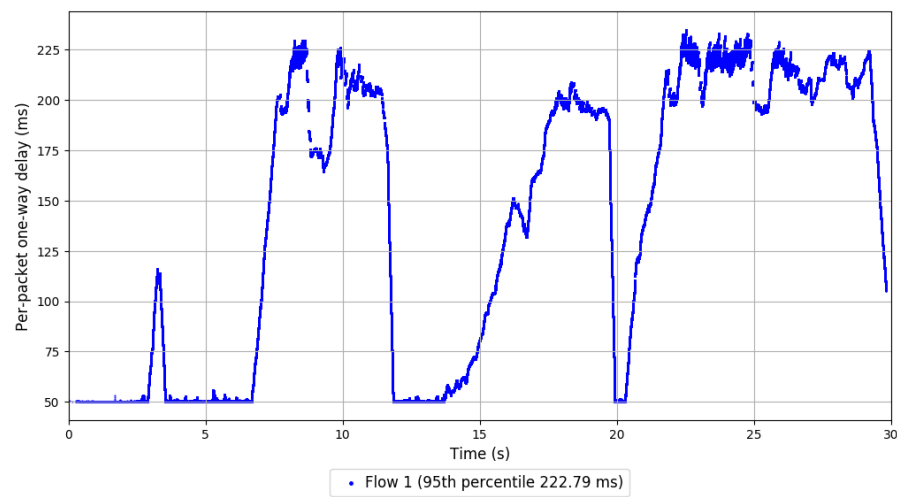
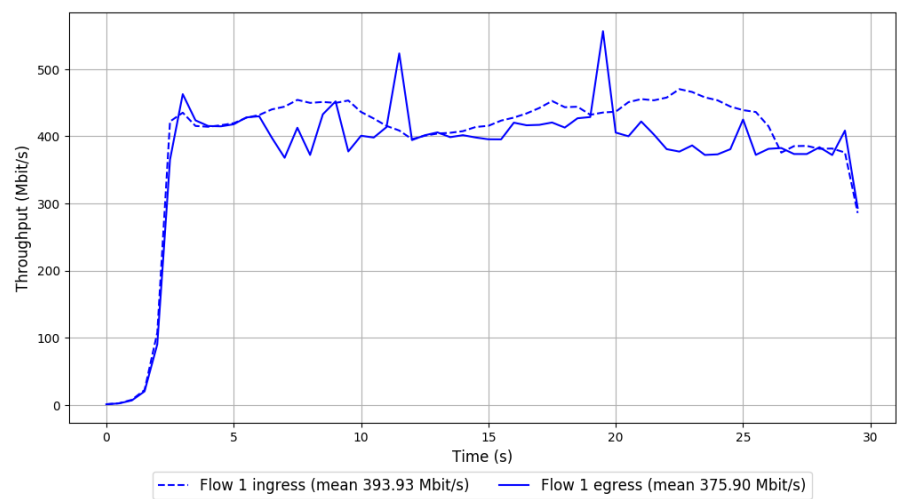
-- Flow 1:

Average throughput: 375.90 Mbit/s

95th percentile per-packet one-way delay: 222.786 ms

Loss rate: 4.90%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-03-13 03:38:46

End at: 2018-03-13 03:39:16

# Below is generated by plot.py at 2018-03-13 10:16:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 342.47 Mbit/s

95th percentile per-packet one-way delay: 78.405 ms

Loss rate: 0.37%

-- Flow 1:

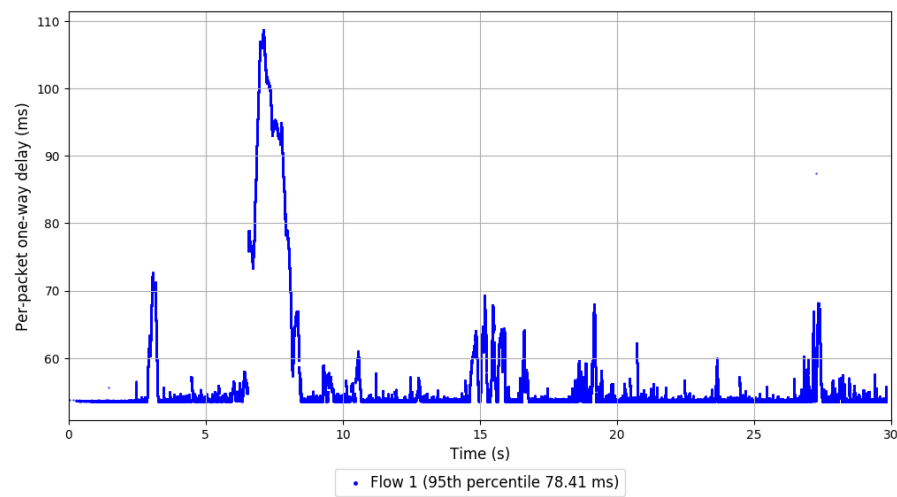
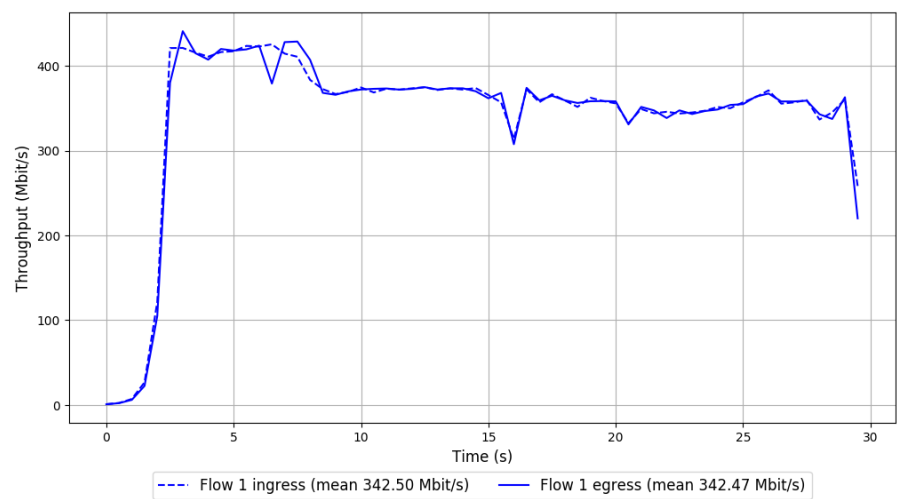
Average throughput: 342.47 Mbit/s

95th percentile per-packet one-way delay: 78.405 ms

Loss rate: 0.37%



Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

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

End at: 2018-03-13 03:53:36

# Below is generated by plot.py at 2018-03-13 10:17:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 321.01 Mbit/s

95th percentile per-packet one-way delay: 73.696 ms

Loss rate: 0.43%

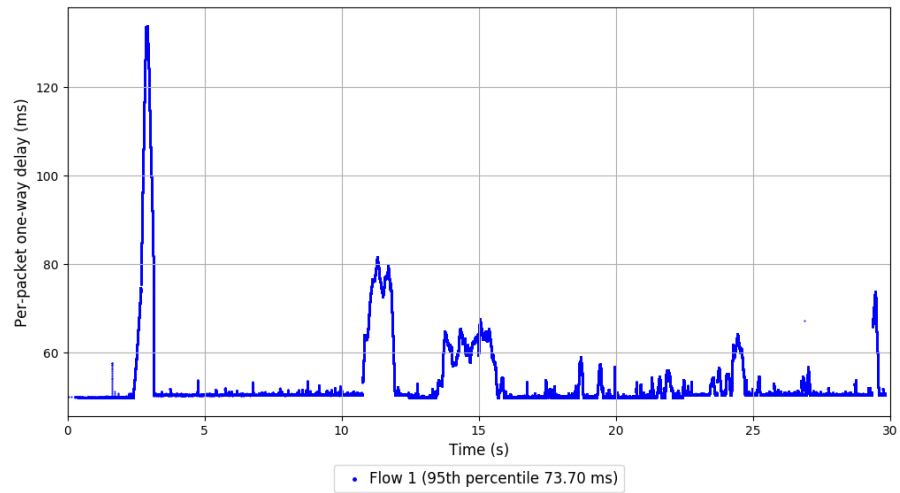
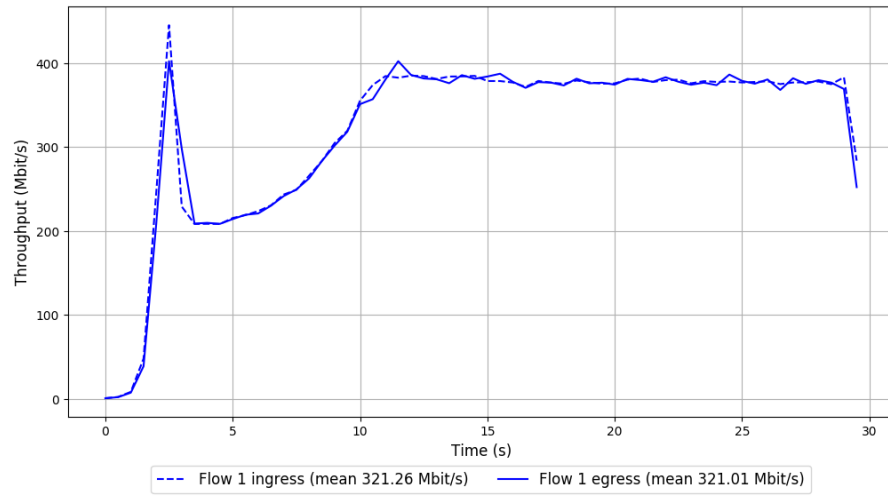
-- Flow 1:

Average throughput: 321.01 Mbit/s

95th percentile per-packet one-way delay: 73.696 ms

Loss rate: 0.43%

## Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-13 04:07:25

End at: 2018-03-13 04:07:55

# Below is generated by plot.py at 2018-03-13 10:19:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 353.19 Mbit/s

95th percentile per-packet one-way delay: 151.853 ms

Loss rate: 0.39%

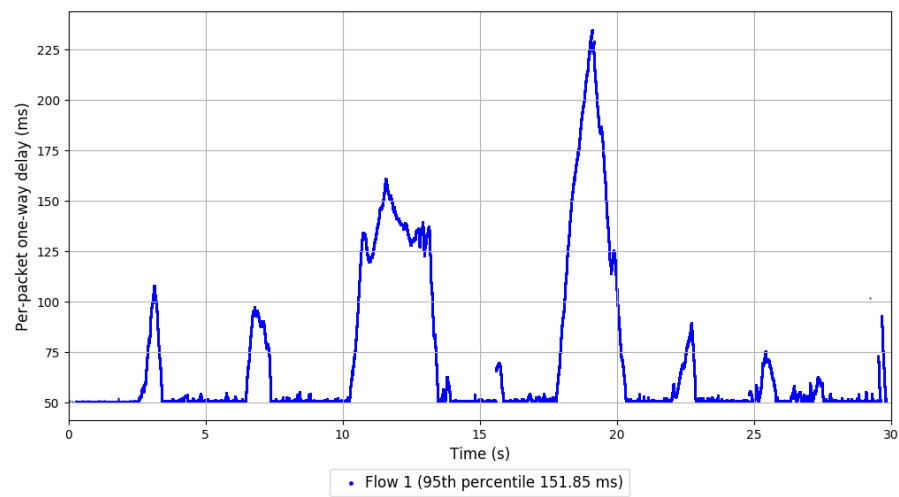
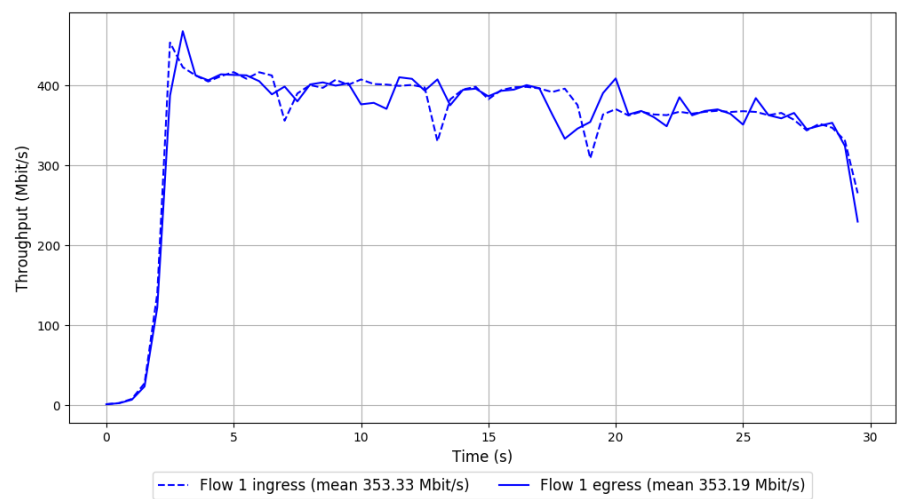
-- Flow 1:

Average throughput: 353.19 Mbit/s

95th percentile per-packet one-way delay: 151.853 ms

Loss rate: 0.39%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-13 04:21:30

End at: 2018-03-13 04:22:00

# Below is generated by plot.py at 2018-03-13 10:19:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 364.48 Mbit/s

95th percentile per-packet one-way delay: 178.602 ms

Loss rate: 0.46%

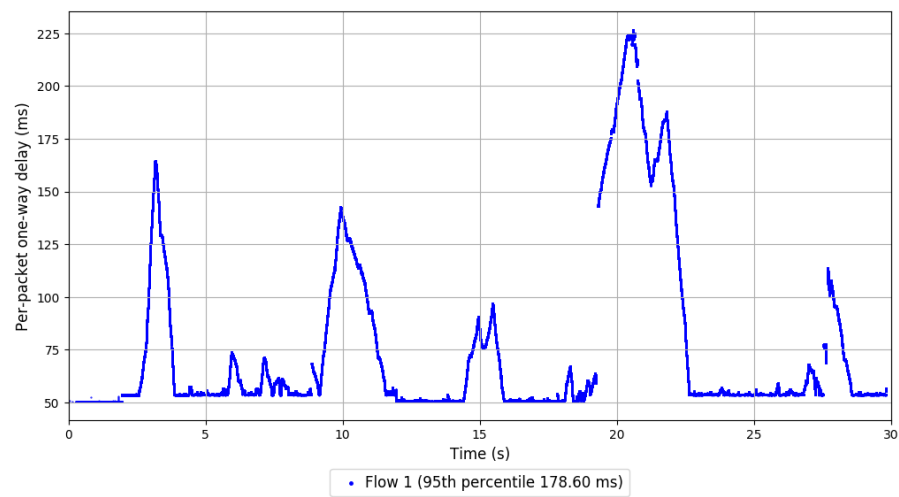
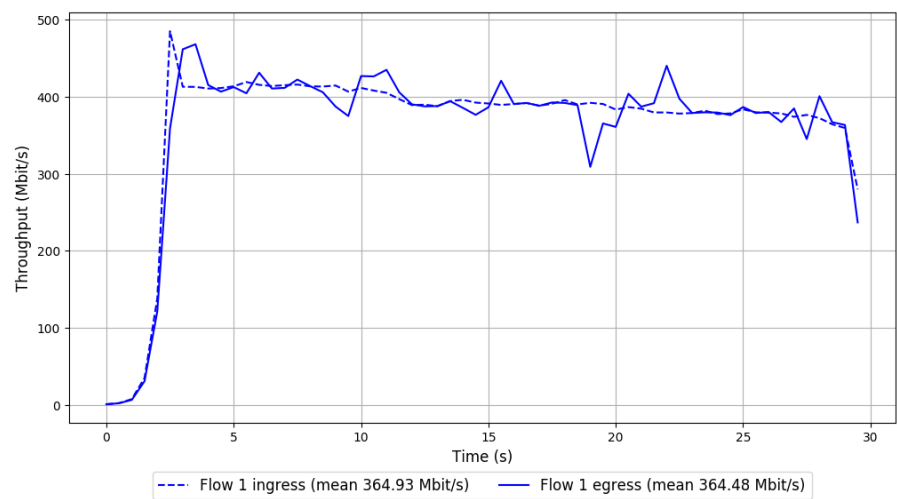
-- Flow 1:

Average throughput: 364.48 Mbit/s

95th percentile per-packet one-way delay: 178.602 ms

Loss rate: 0.46%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-13 04:35:58

End at: 2018-03-13 04:36:28

# Below is generated by plot.py at 2018-03-13 10:19:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 358.76 Mbit/s

95th percentile per-packet one-way delay: 169.904 ms

Loss rate: 0.88%

-- Flow 1:

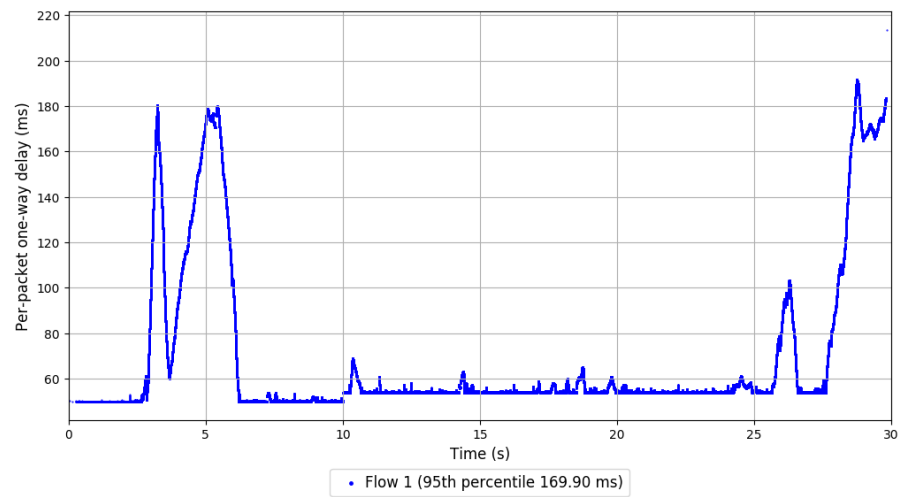
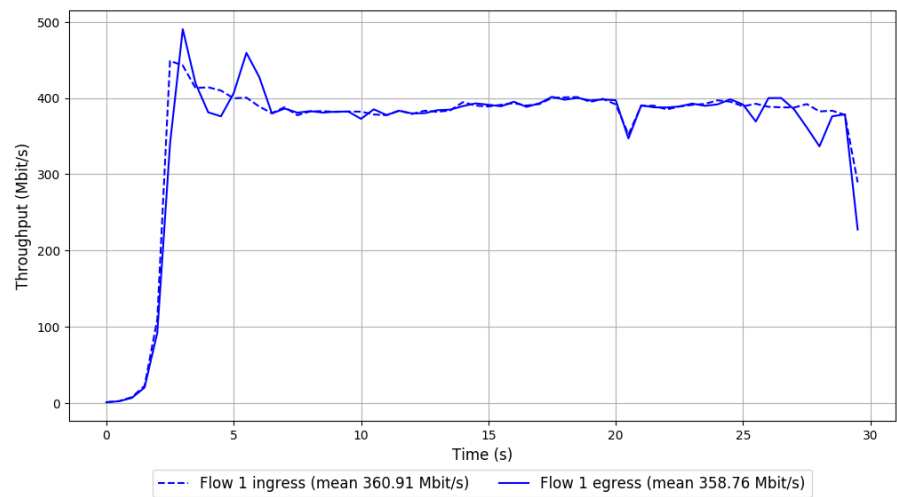
Average throughput: 358.76 Mbit/s

95th percentile per-packet one-way delay: 169.904 ms

Loss rate: 0.88%



Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-13 04:50:30

End at: 2018-03-13 04:51:00

# Below is generated by plot.py at 2018-03-13 10:20:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 311.88 Mbit/s

95th percentile per-packet one-way delay: 108.175 ms

Loss rate: 2.30%

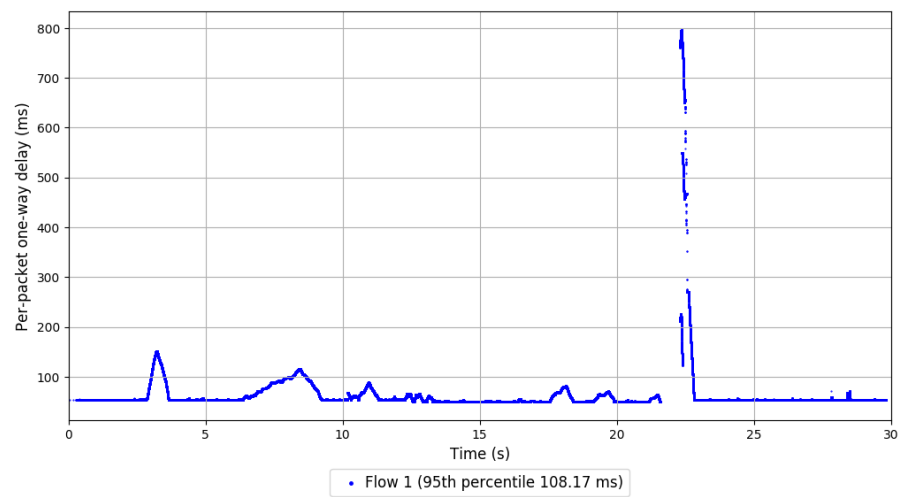
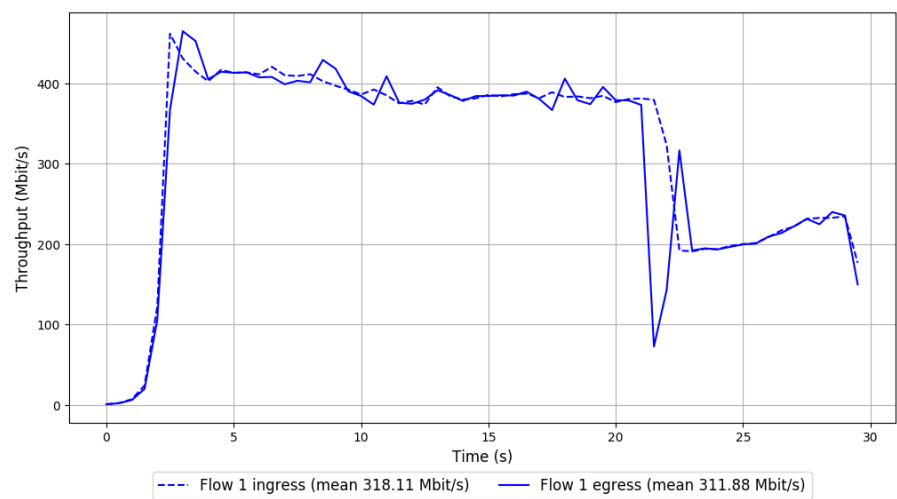
-- Flow 1:

Average throughput: 311.88 Mbit/s

95th percentile per-packet one-way delay: 108.175 ms

Loss rate: 2.30%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-13 05:04:50

End at: 2018-03-13 05:05:20

# Below is generated by plot.py at 2018-03-13 10:21:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 358.63 Mbit/s

95th percentile per-packet one-way delay: 115.663 ms

Loss rate: 0.39%

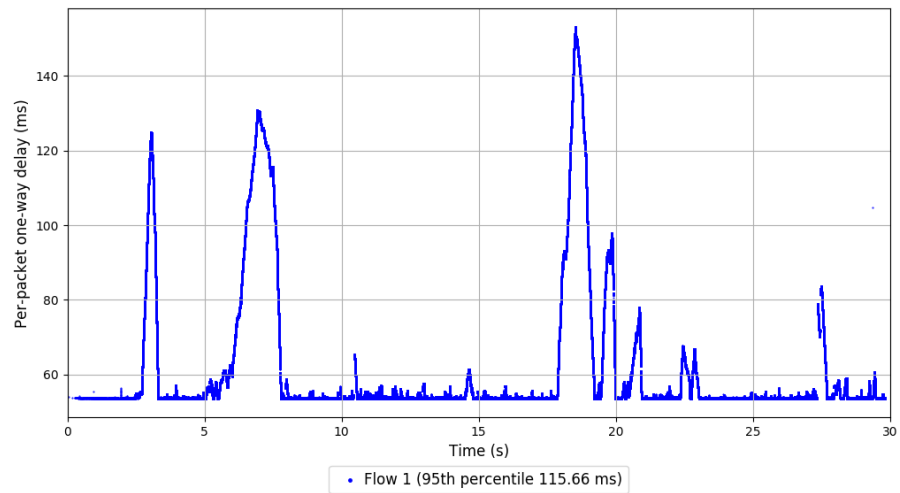
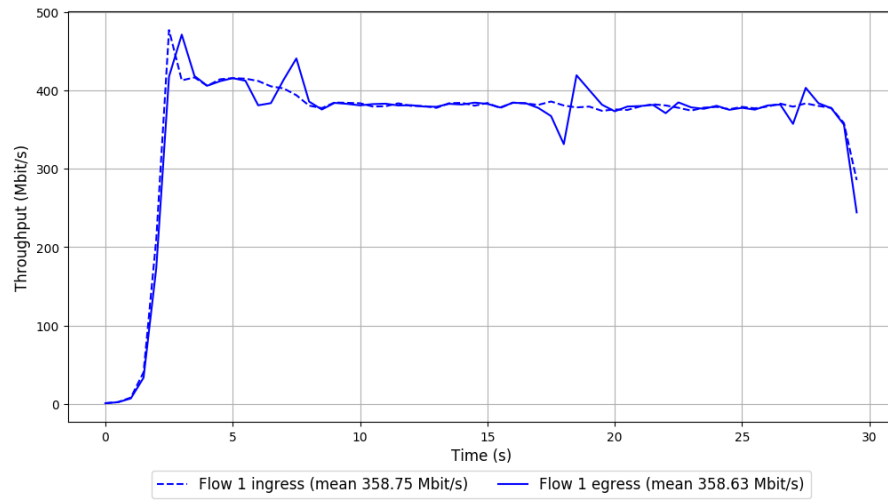
-- Flow 1:

Average throughput: 358.63 Mbit/s

95th percentile per-packet one-way delay: 115.663 ms

Loss rate: 0.39%

### Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-13 05:19:17

End at: 2018-03-13 05:19:47

# Below is generated by plot.py at 2018-03-13 10:22:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 361.08 Mbit/s

95th percentile per-packet one-way delay: 167.120 ms

Loss rate: 0.40%

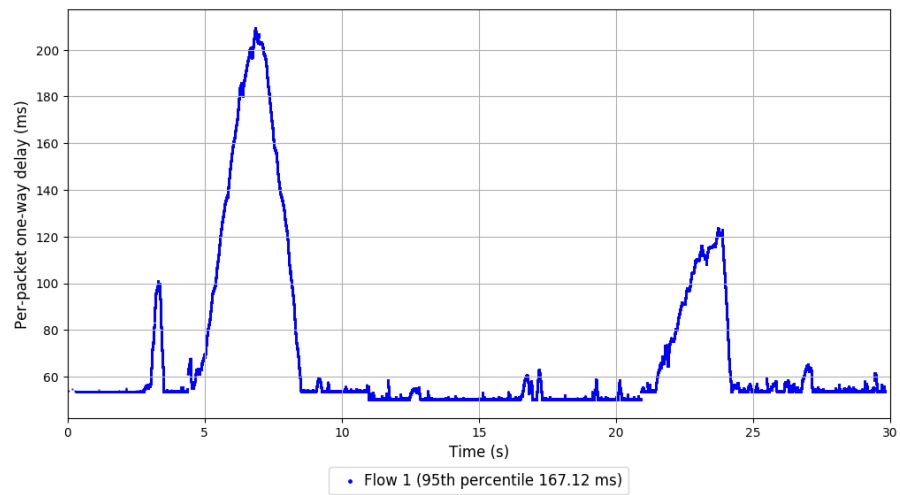
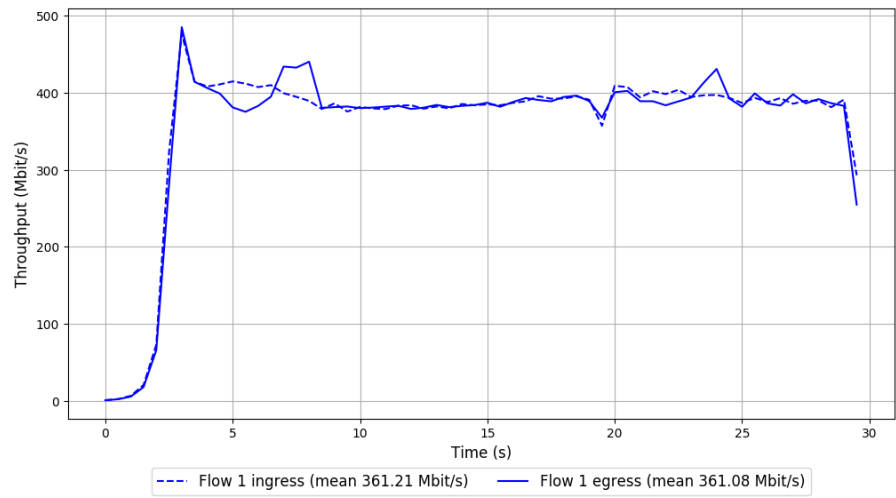
-- Flow 1:

Average throughput: 361.08 Mbit/s

95th percentile per-packet one-way delay: 167.120 ms

Loss rate: 0.40%

## Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-13 05:33:46

End at: 2018-03-13 05:34:16

# Below is generated by plot.py at 2018-03-13 10:22:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 363.94 Mbit/s

95th percentile per-packet one-way delay: 166.760 ms

Loss rate: 0.50%

-- Flow 1:

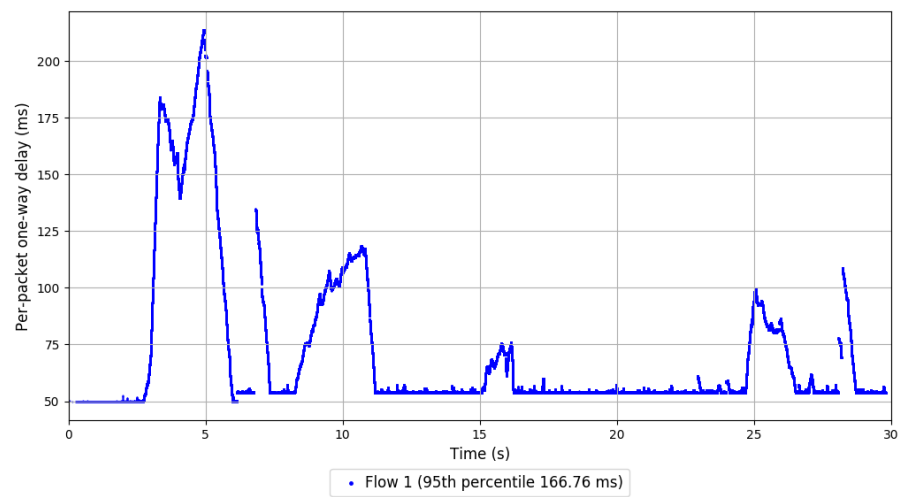
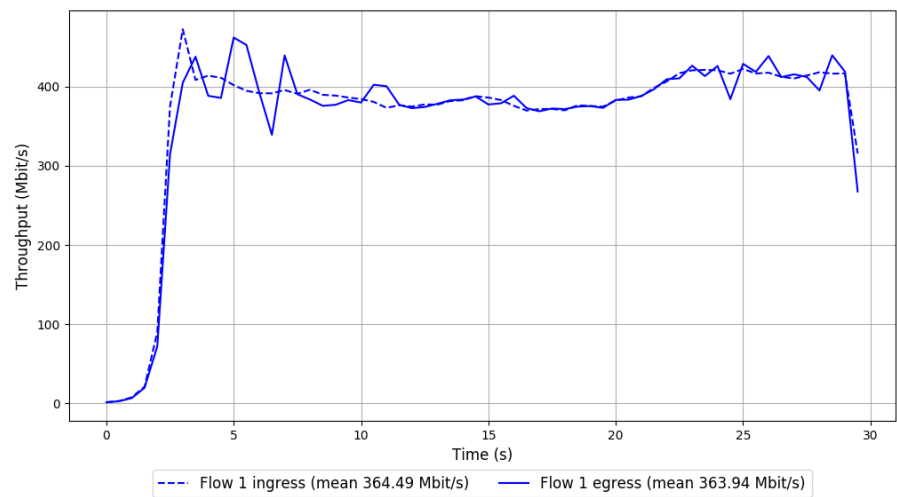
Average throughput: 363.94 Mbit/s

95th percentile per-packet one-way delay: 166.760 ms

Loss rate: 0.50%



Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-13 05:48:04
End at: 2018-03-13 05:48:34

# Below is generated by plot.py at 2018-03-13 10:22:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 304.10 Mbit/s
95th percentile per-packet one-way delay: 90.694 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 304.10 Mbit/s
95th percentile per-packet one-way delay: 90.694 ms
Loss rate: 0.67%
```

# Run 10: Report of Vivace-LTE — Data Link

