

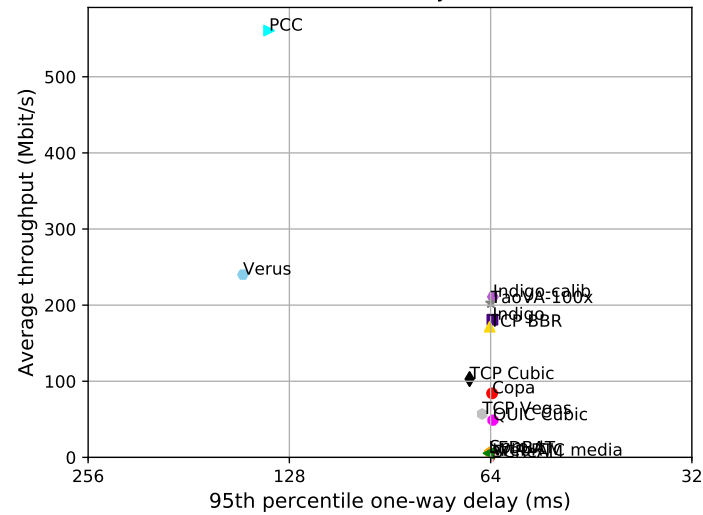
## Pantheon Report

Generated at 2017-12-11 21:42:51 (UTC).  
Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).  
Repeated the test of 14 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**).

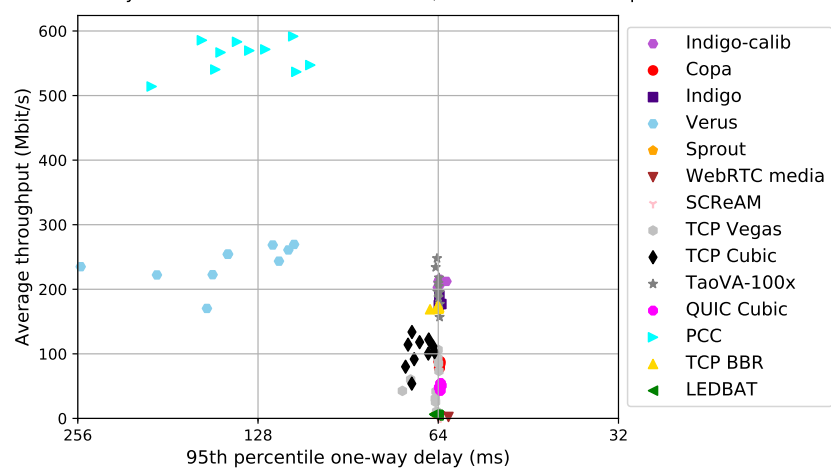
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Tokyo Ethernet to GCE Iowa 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	171.66	64.21	0.46
TCP Cubic	10	102.85	68.82	0.55
LEDBAT	10	5.33	64.47	0.67
PCC	10	560.68	137.27	1.37
QUIC Cubic	10	48.88	63.50	0.67
SCReAM	10	0.22	63.64	0.50
WebRTC media	10	2.26	63.46	0.47
Sprout	8	6.57	64.24	0.49
TaoVA-100x	10	202.73	63.97	0.41
TCP Vegas	10	57.00	65.89	0.36
Verus	10	240.11	150.19	1.73
Copa	10	84.12	63.68	0.32
Indigo	3	180.85	63.61	0.50
Indigo-calib	10	210.89	63.51	0.44

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 17:24:42

End at: 2017-12-11 17:25:12

# Below is generated by plot.py at 2017-12-11 20:58:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.65 Mbit/s

95th percentile per-packet one-way delay: 64.186 ms

Loss rate: 0.48%

-- Flow 1:

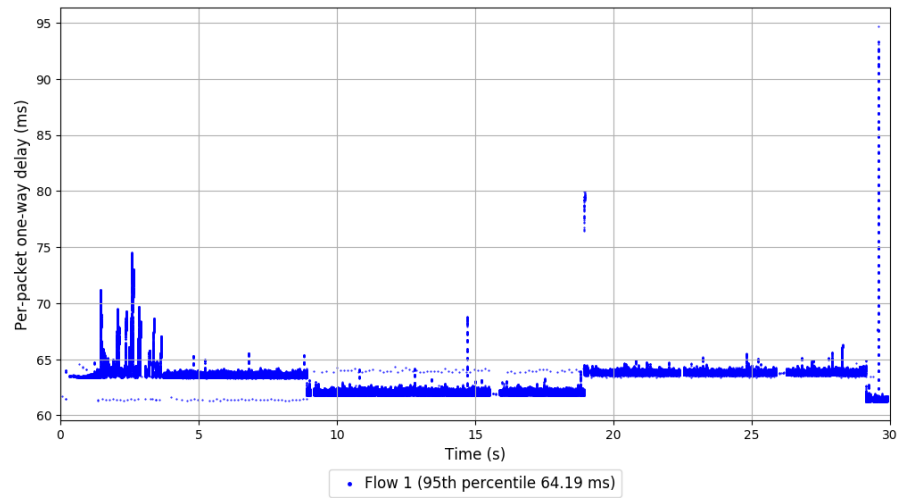
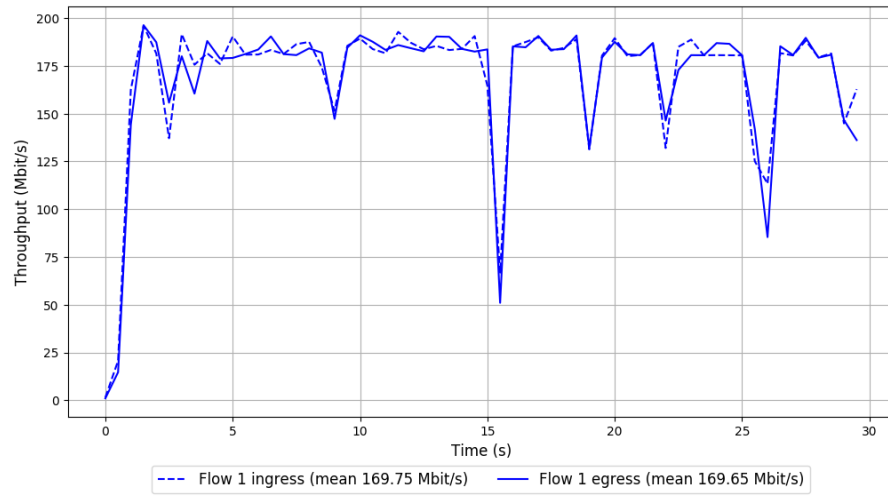
Average throughput: 169.65 Mbit/s

95th percentile per-packet one-way delay: 64.186 ms

Loss rate: 0.48%



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



Run 2: Statistics of TCP BBR

Start at: 2017-12-11 17:35:42

End at: 2017-12-11 17:36:12

# Below is generated by plot.py at 2017-12-11 20:58:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.04 Mbit/s

95th percentile per-packet one-way delay: 66.050 ms

Loss rate: 0.54%

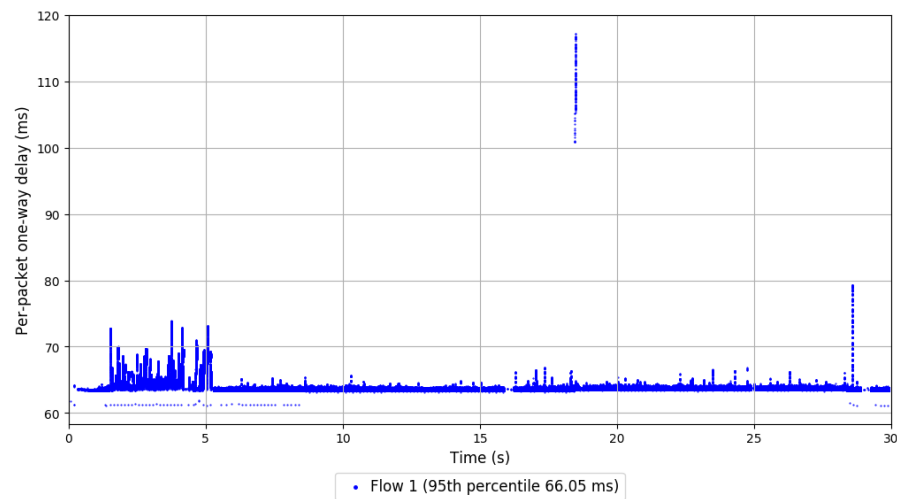
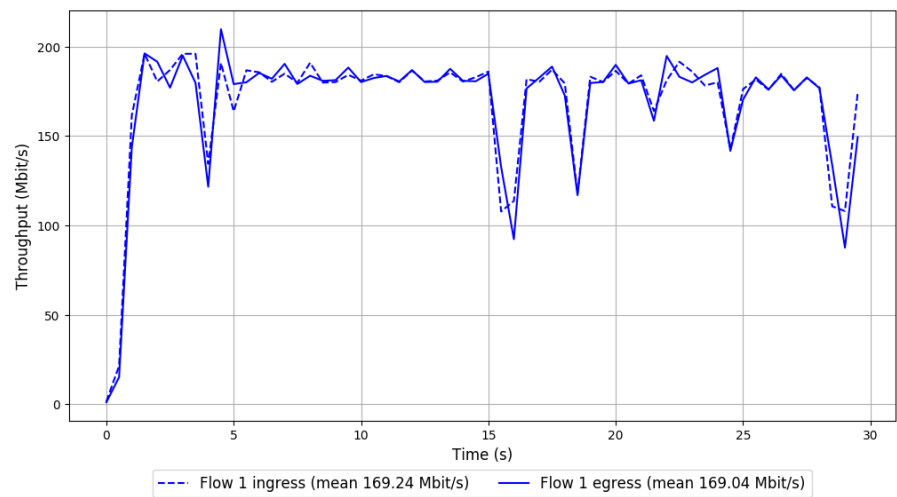
-- Flow 1:

Average throughput: 169.04 Mbit/s

95th percentile per-packet one-way delay: 66.050 ms

Loss rate: 0.54%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-11 17:46:24

End at: 2017-12-11 17:46:54

# Below is generated by plot.py at 2017-12-11 20:58:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 173.57 Mbit/s

95th percentile per-packet one-way delay: 64.122 ms

Loss rate: 0.44%

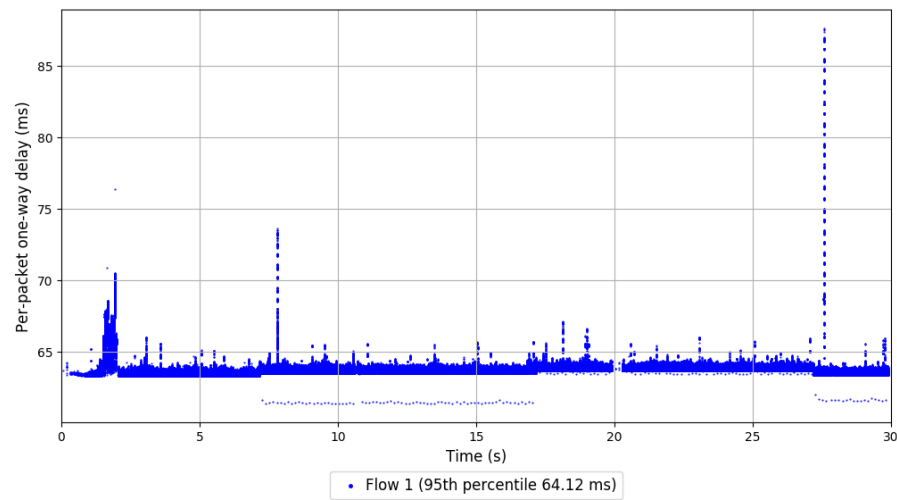
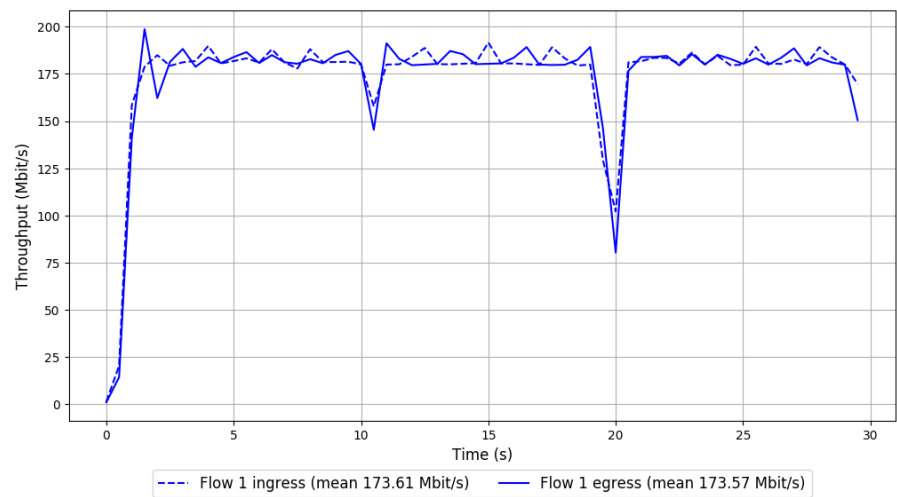
-- Flow 1:

Average throughput: 173.57 Mbit/s

95th percentile per-packet one-way delay: 64.122 ms

Loss rate: 0.44%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-11 17:57:04

End at: 2017-12-11 17:57:34

# Below is generated by plot.py at 2017-12-11 20:58:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 174.65 Mbit/s

95th percentile per-packet one-way delay: 64.033 ms

Loss rate: 0.44%

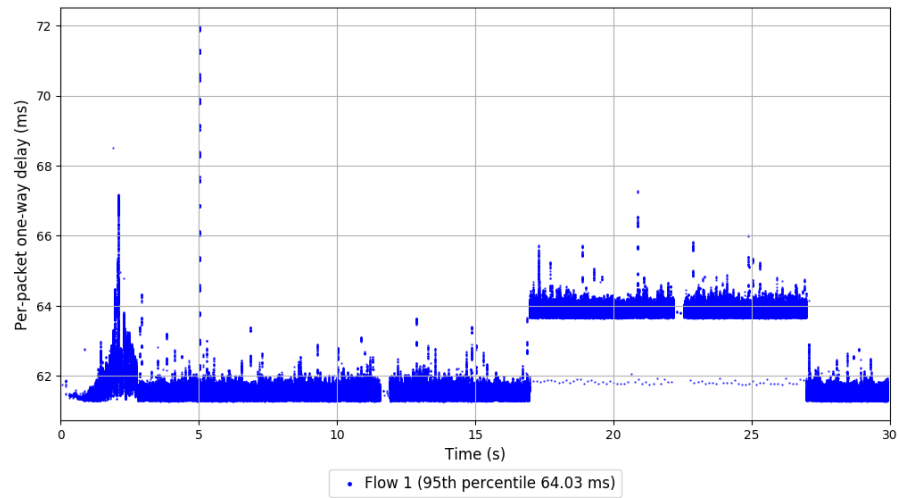
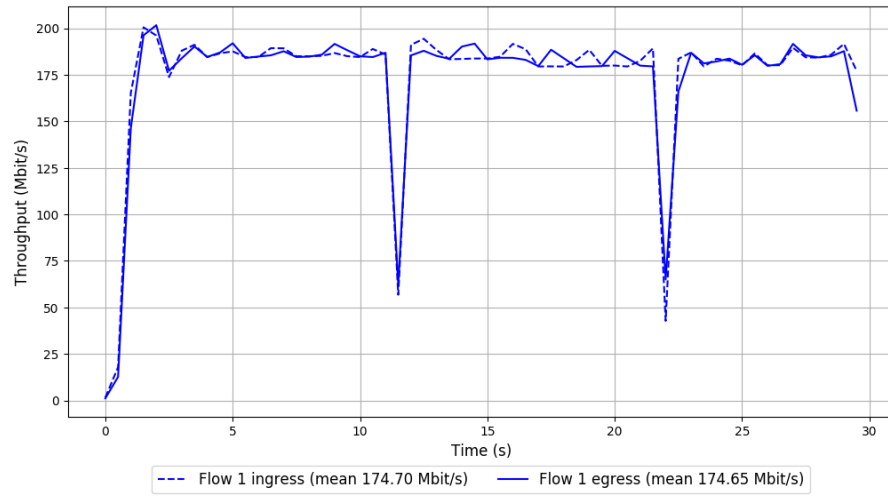
-- Flow 1:

Average throughput: 174.65 Mbit/s

95th percentile per-packet one-way delay: 64.033 ms

Loss rate: 0.44%

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



Run 5: Statistics of TCP BBR

Start at: 2017-12-11 18:07:41

End at: 2017-12-11 18:08:11

# Below is generated by plot.py at 2017-12-11 20:58:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.14 Mbit/s

95th percentile per-packet one-way delay: 63.773 ms

Loss rate: 0.45%

-- Flow 1:

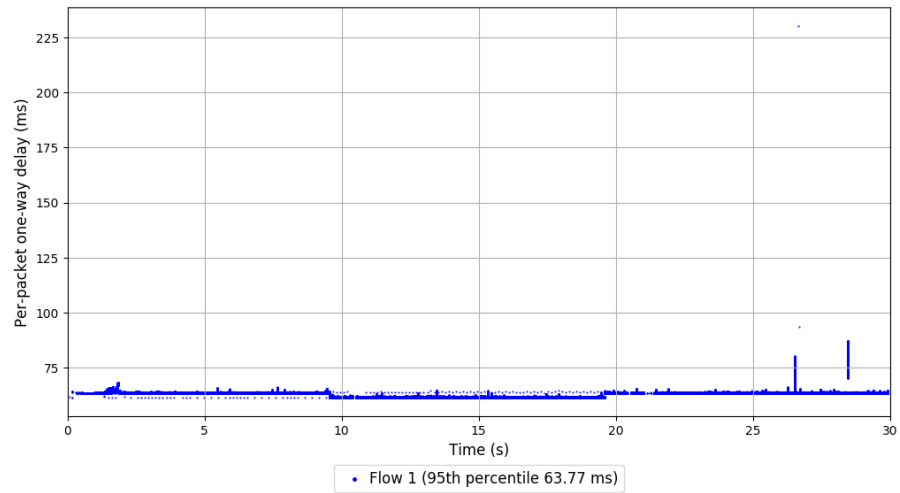
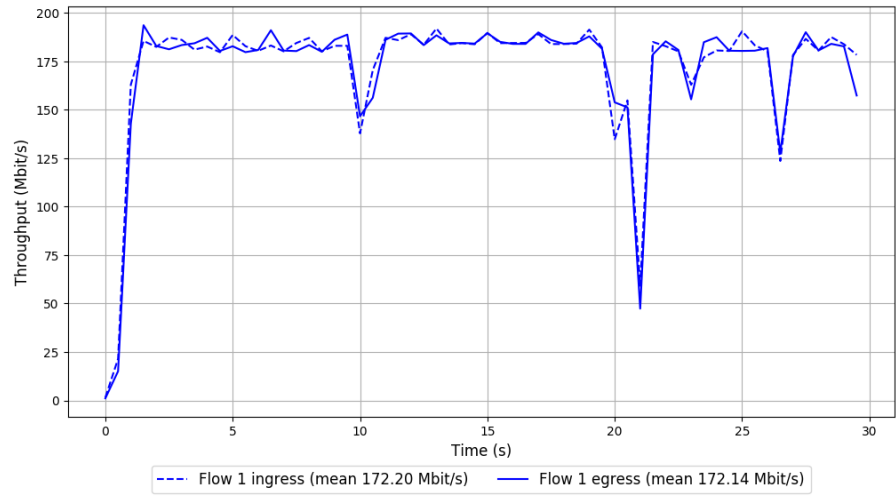
Average throughput: 172.14 Mbit/s

95th percentile per-packet one-way delay: 63.773 ms

Loss rate: 0.45%



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



Run 6: Statistics of TCP BBR

Start at: 2017-12-11 18:18:22

End at: 2017-12-11 18:18:52

# Below is generated by plot.py at 2017-12-11 20:58:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.66 Mbit/s

95th percentile per-packet one-way delay: 63.885 ms

Loss rate: 0.45%

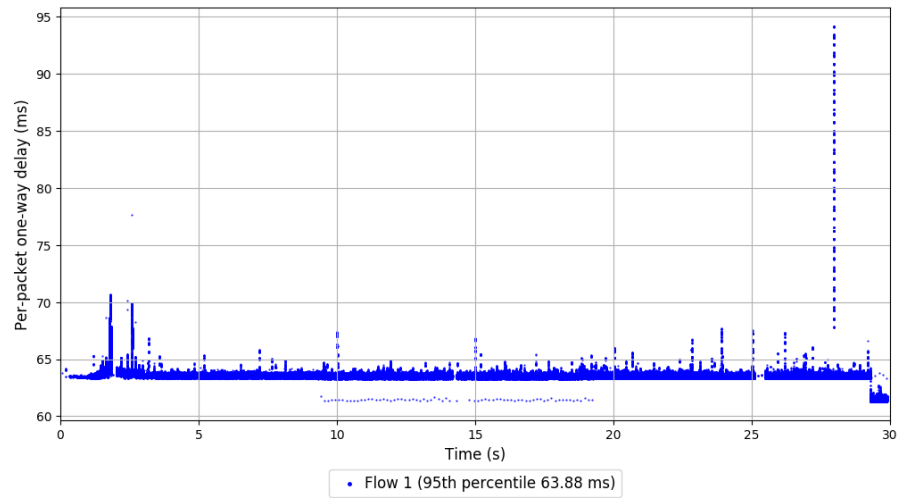
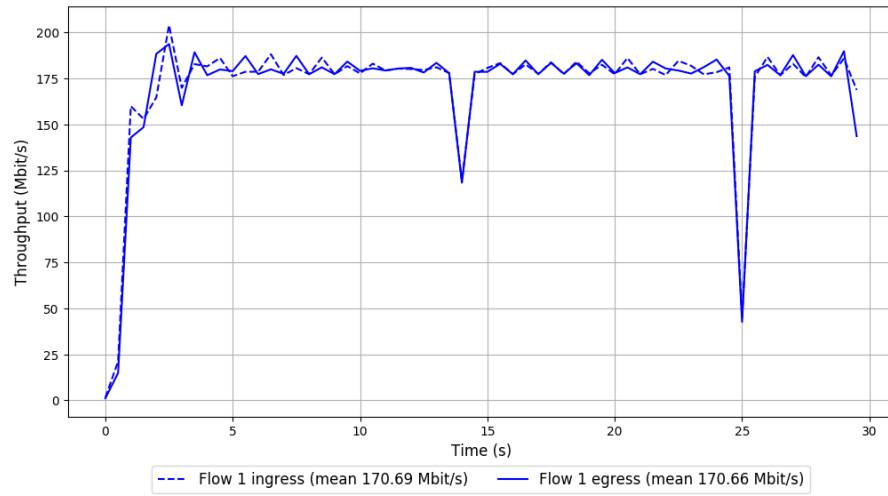
-- Flow 1:

Average throughput: 170.66 Mbit/s

95th percentile per-packet one-way delay: 63.885 ms

Loss rate: 0.45%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-11 18:29:03

End at: 2017-12-11 18:29:33

# Below is generated by plot.py at 2017-12-11 20:58:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.28 Mbit/s

95th percentile per-packet one-way delay: 63.937 ms

Loss rate: 0.44%

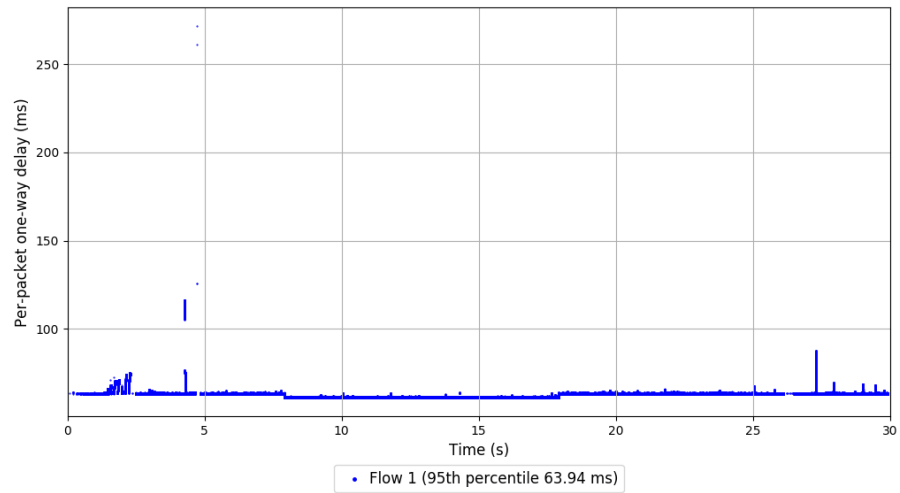
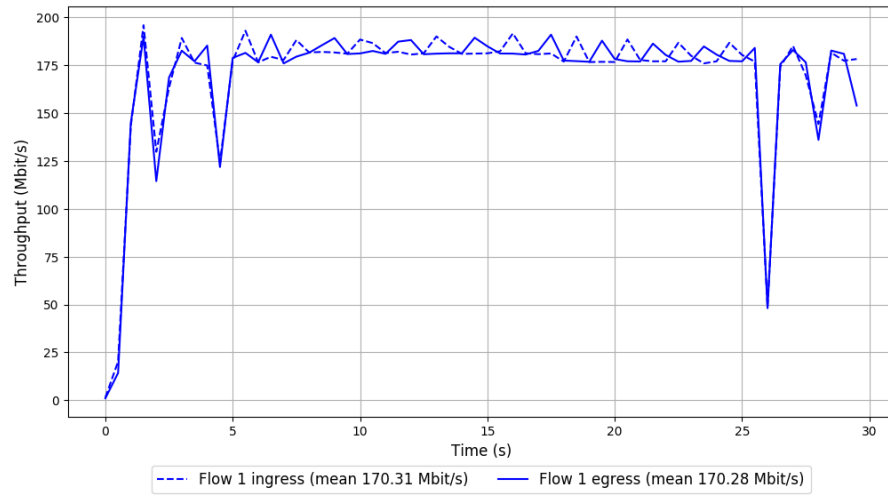
-- Flow 1:

Average throughput: 170.28 Mbit/s

95th percentile per-packet one-way delay: 63.937 ms

Loss rate: 0.44%

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



Run 8: Statistics of TCP BBR

Start at: 2017-12-11 18:39:46

End at: 2017-12-11 18:40:16

# Below is generated by plot.py at 2017-12-11 20:58:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.70 Mbit/s

95th percentile per-packet one-way delay: 64.088 ms

Loss rate: 0.46%

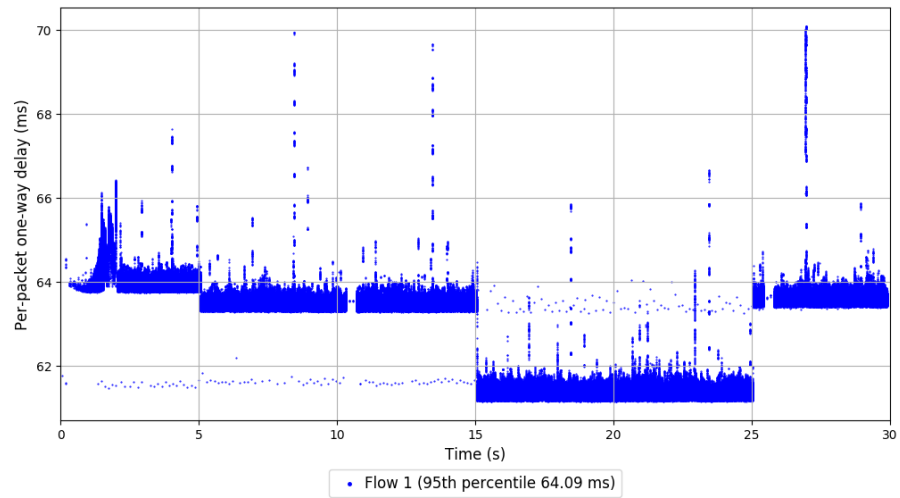
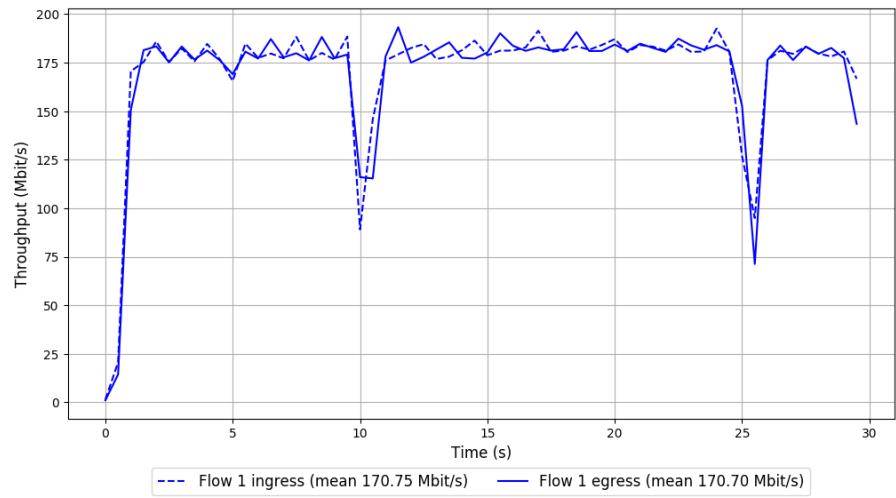
-- Flow 1:

Average throughput: 170.70 Mbit/s

95th percentile per-packet one-way delay: 64.088 ms

Loss rate: 0.46%

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



Run 9: Statistics of TCP BBR

Start at: 2017-12-11 18:50:20

End at: 2017-12-11 18:50:50

# Below is generated by plot.py at 2017-12-11 21:01:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 174.06 Mbit/s

95th percentile per-packet one-way delay: 64.156 ms

Loss rate: 0.43%

-- Flow 1:

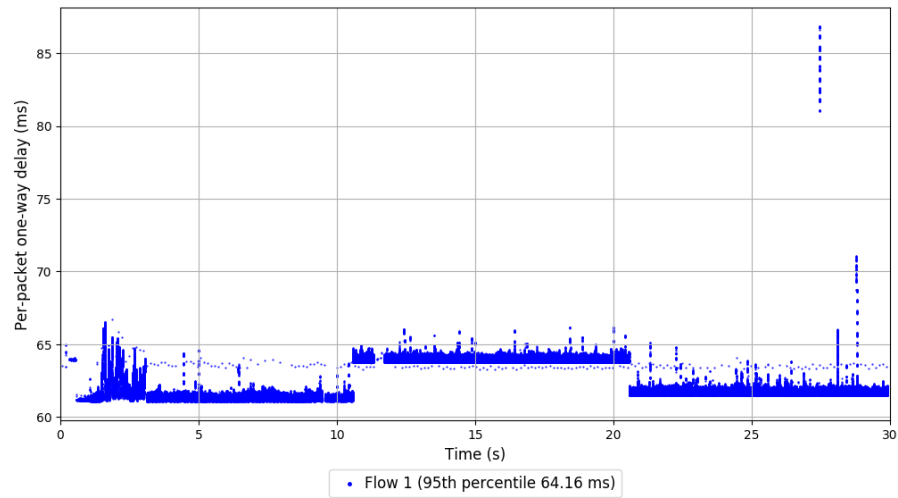
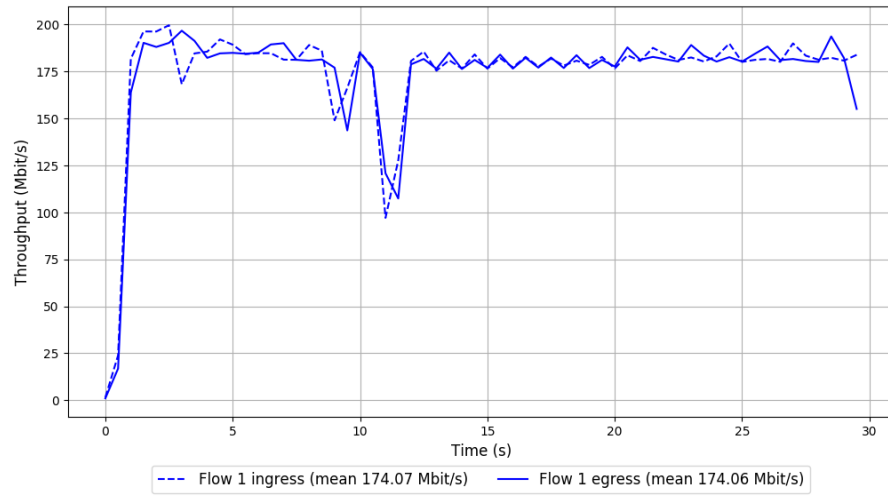
Average throughput: 174.06 Mbit/s

95th percentile per-packet one-way delay: 64.156 ms

Loss rate: 0.43%



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



Run 10: Statistics of TCP BBR

Start at: 2017-12-11 19:00:52

End at: 2017-12-11 19:01:22

# Below is generated by plot.py at 2017-12-11 21:01:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 171.87 Mbit/s

95th percentile per-packet one-way delay: 63.895 ms

Loss rate: 0.45%

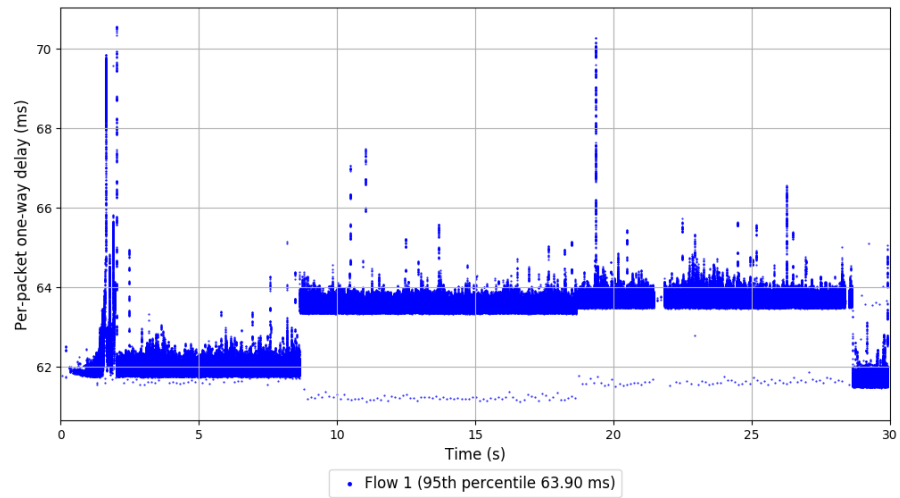
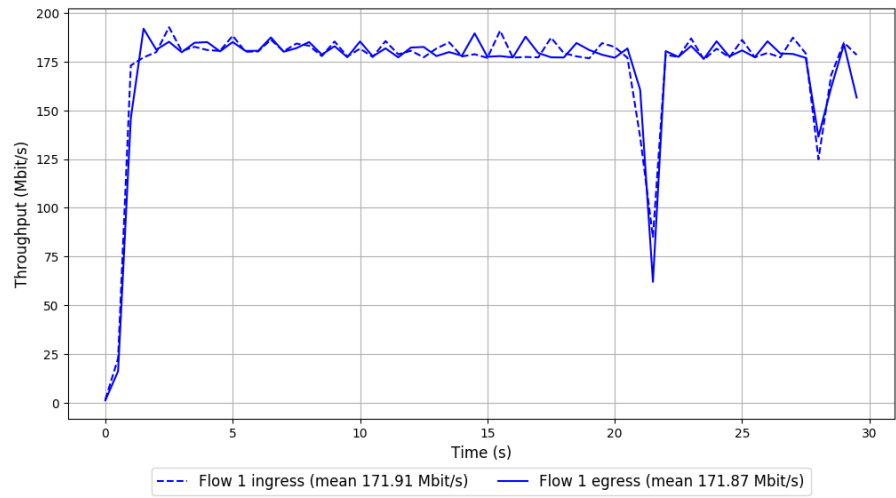
-- Flow 1:

Average throughput: 171.87 Mbit/s

95th percentile per-packet one-way delay: 63.895 ms

Loss rate: 0.45%

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



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 17:23:17

End at: 2017-12-11 17:23:47

# Below is generated by plot.py at 2017-12-11 21:01:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 100.38 Mbit/s

95th percentile per-packet one-way delay: 66.493 ms

Loss rate: 0.49%

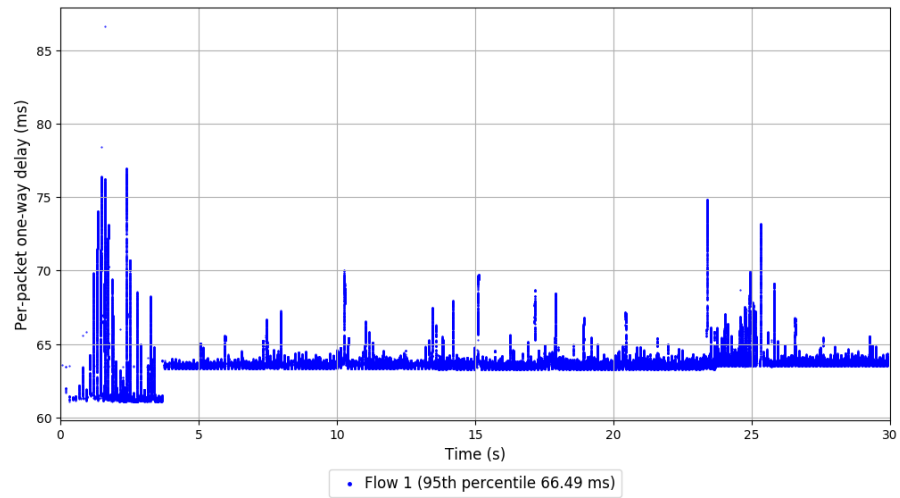
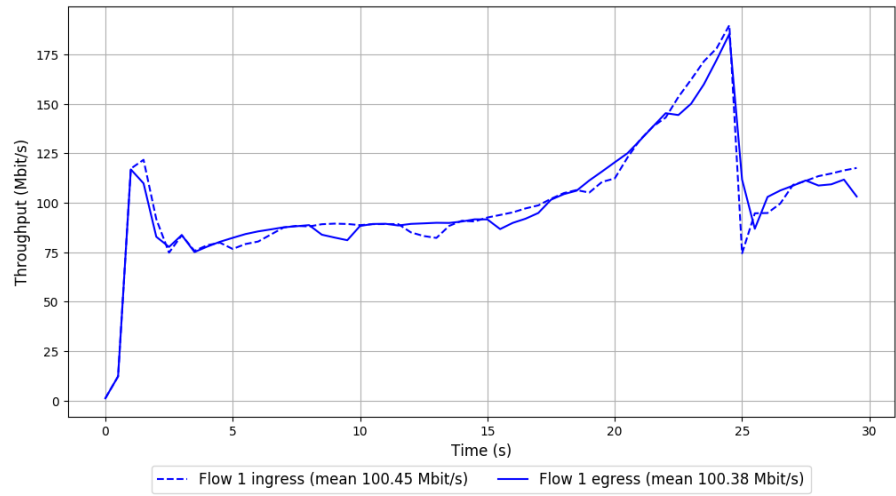
-- Flow 1:

Average throughput: 100.38 Mbit/s

95th percentile per-packet one-way delay: 66.493 ms

Loss rate: 0.49%

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



Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 17:34:20

End at: 2017-12-11 17:34:50

# Below is generated by plot.py at 2017-12-11 21:01:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 114.21 Mbit/s

95th percentile per-packet one-way delay: 71.881 ms

Loss rate: 0.77%

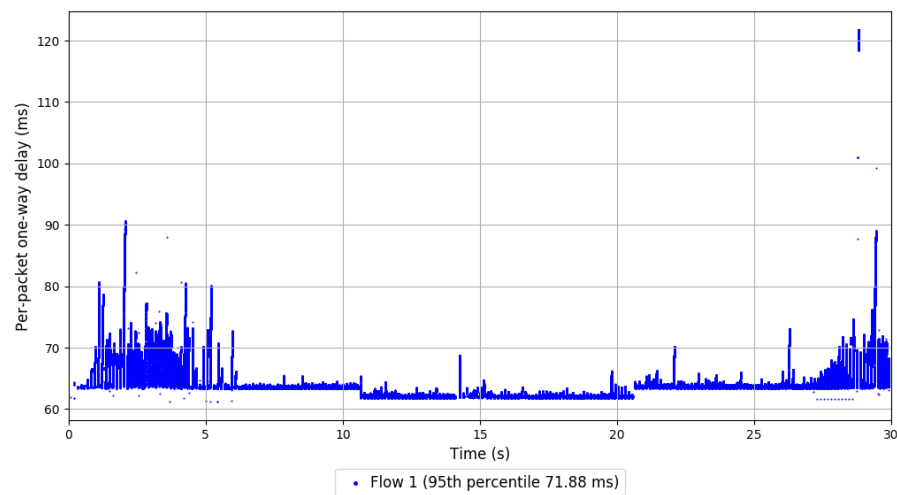
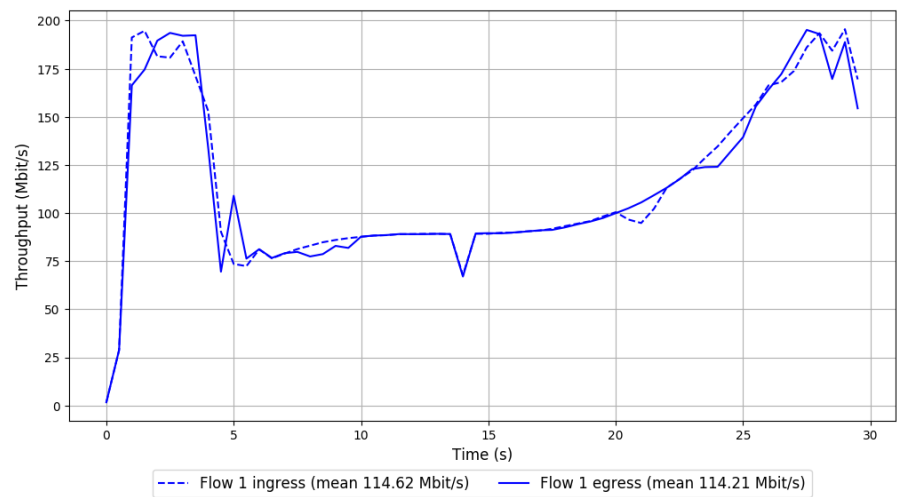
-- Flow 1:

Average throughput: 114.21 Mbit/s

95th percentile per-packet one-way delay: 71.881 ms

Loss rate: 0.77%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 17:45:02

End at: 2017-12-11 17:45:32

# Below is generated by plot.py at 2017-12-11 21:01:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 102.66 Mbit/s

95th percentile per-packet one-way delay: 64.912 ms

Loss rate: 0.61%

-- Flow 1:

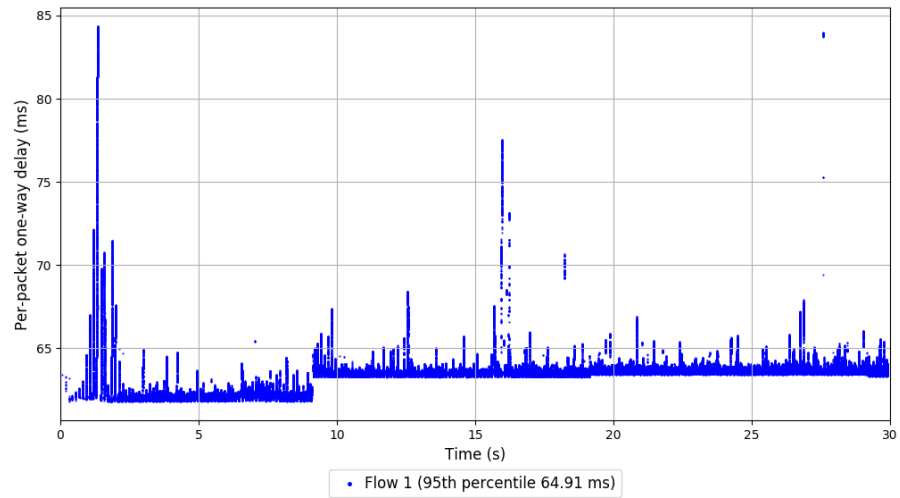
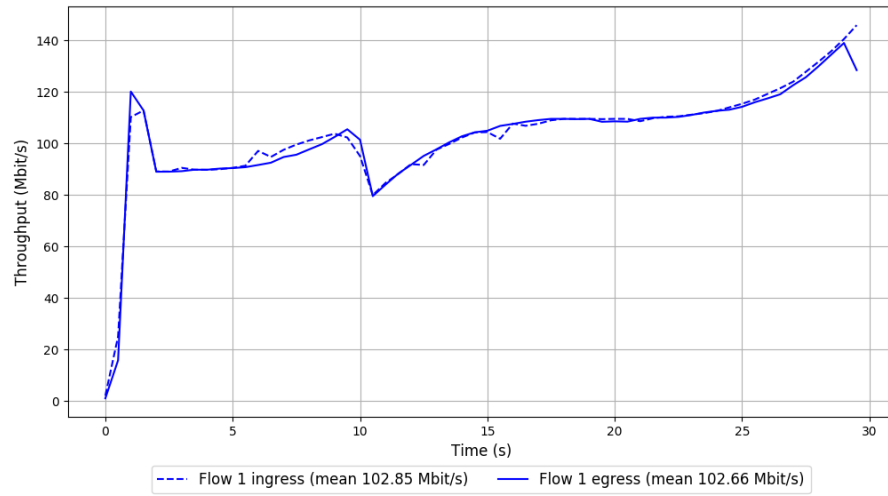
Average throughput: 102.66 Mbit/s

95th percentile per-packet one-way delay: 64.912 ms

Loss rate: 0.61%



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



Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 17:55:41

End at: 2017-12-11 17:56:11

# Below is generated by plot.py at 2017-12-11 21:01:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 122.22 Mbit/s

95th percentile per-packet one-way delay: 66.383 ms

Loss rate: 0.45%

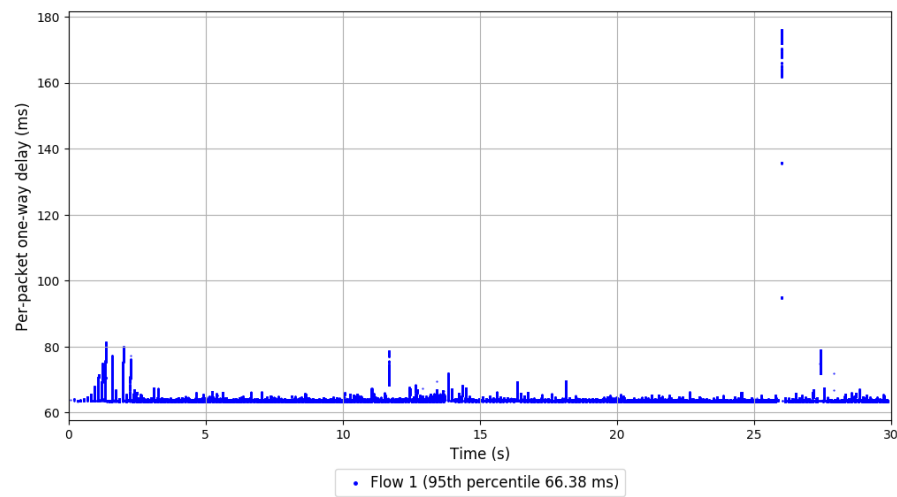
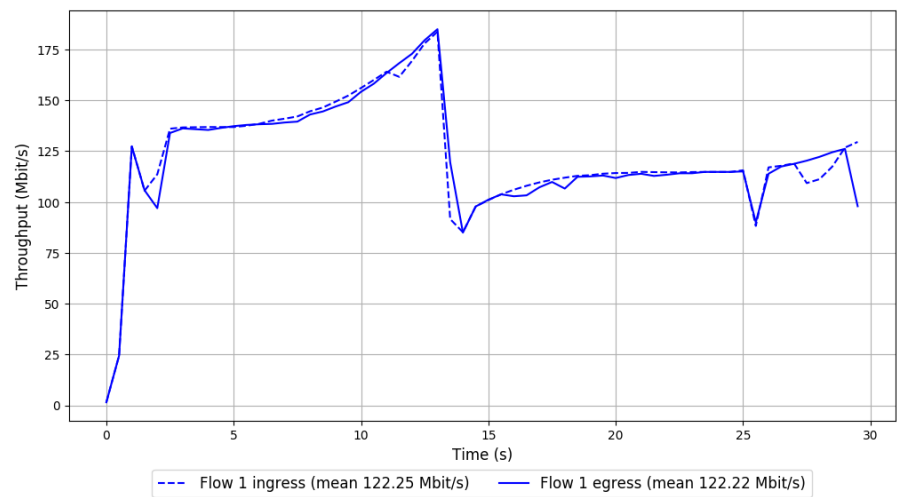
-- Flow 1:

Average throughput: 122.22 Mbit/s

95th percentile per-packet one-way delay: 66.383 ms

Loss rate: 0.45%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 18:06:19

End at: 2017-12-11 18:06:49

# Below is generated by plot.py at 2017-12-11 21:01:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 111.54 Mbit/s

95th percentile per-packet one-way delay: 65.292 ms

Loss rate: 0.63%

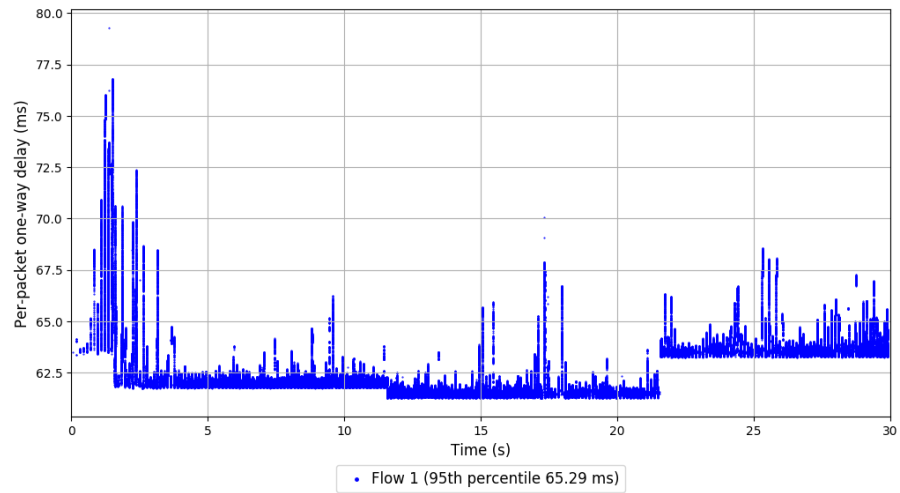
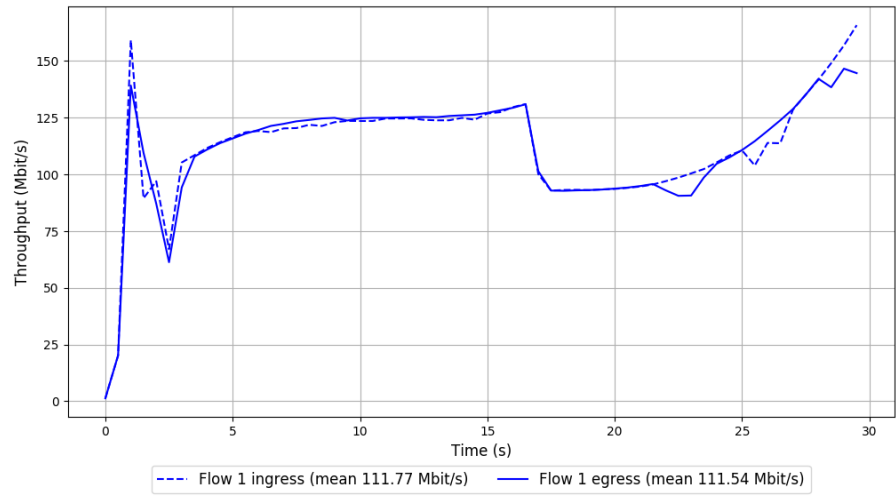
-- Flow 1:

Average throughput: 111.54 Mbit/s

95th percentile per-packet one-way delay: 65.292 ms

Loss rate: 0.63%

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



Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 18:16:59

End at: 2017-12-11 18:17:29

# Below is generated by plot.py at 2017-12-11 21:01:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 118.08 Mbit/s

95th percentile per-packet one-way delay: 68.754 ms

Loss rate: 0.47%

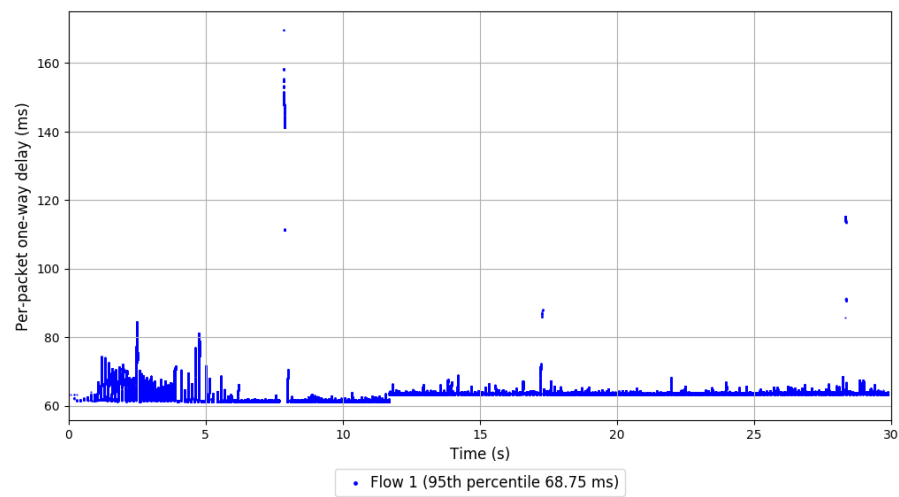
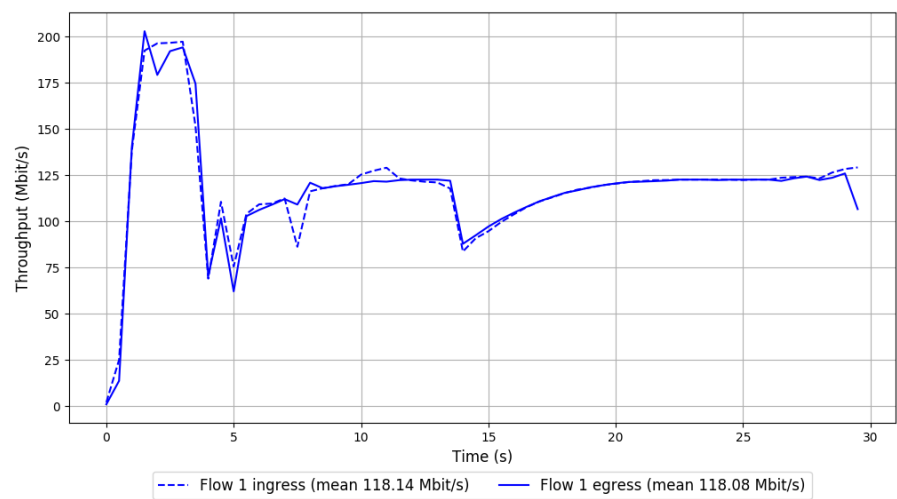
-- Flow 1:

Average throughput: 118.08 Mbit/s

95th percentile per-packet one-way delay: 68.754 ms

Loss rate: 0.47%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 18:27:42

End at: 2017-12-11 18:28:12

# Below is generated by plot.py at 2017-12-11 21:02:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 91.74 Mbit/s

95th percentile per-packet one-way delay: 70.205 ms

Loss rate: 0.37%

-- Flow 1:

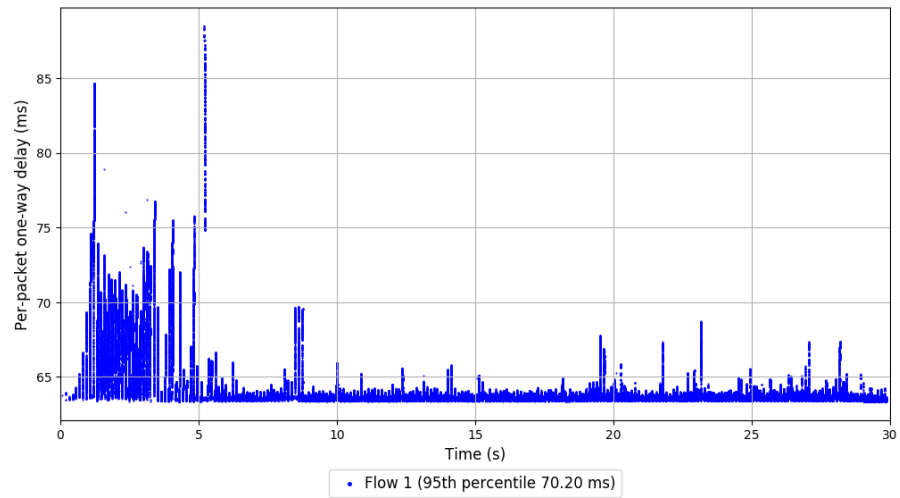
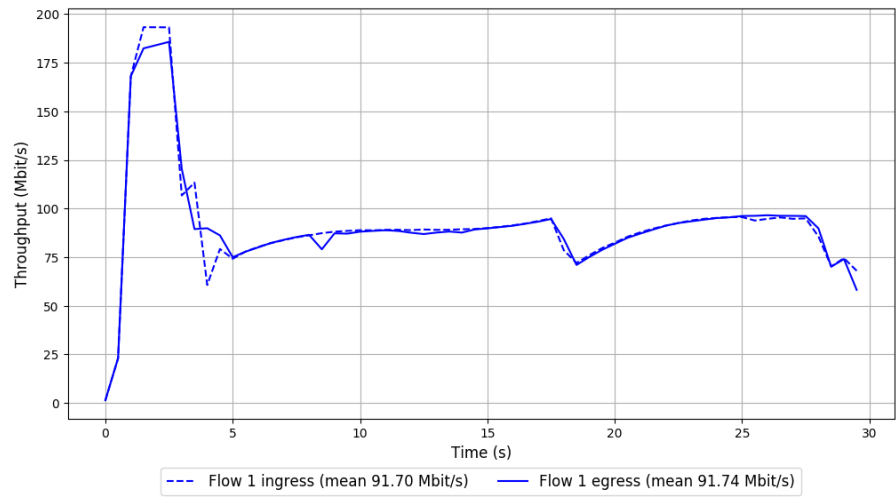
Average throughput: 91.74 Mbit/s

95th percentile per-packet one-way delay: 70.205 ms

Loss rate: 0.37%



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



Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 18:38:22

End at: 2017-12-11 18:38:52

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 133.81 Mbit/s

95th percentile per-packet one-way delay: 70.809 ms

Loss rate: 0.35%

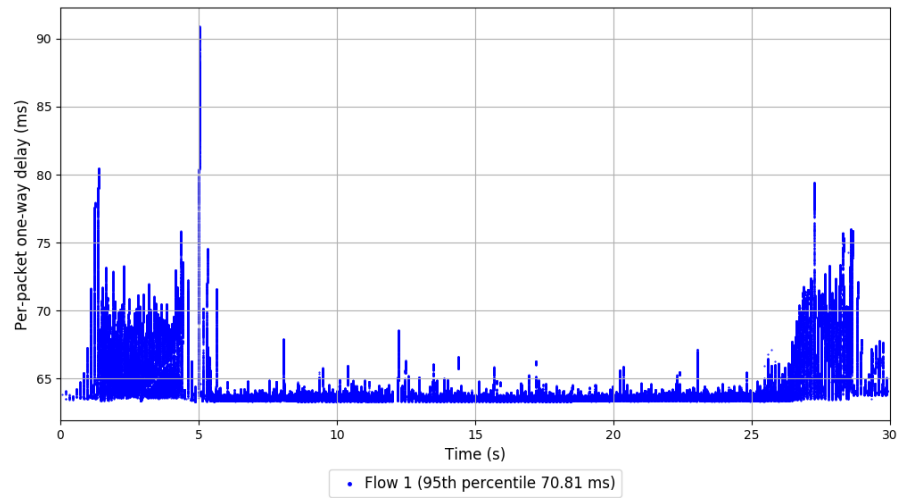
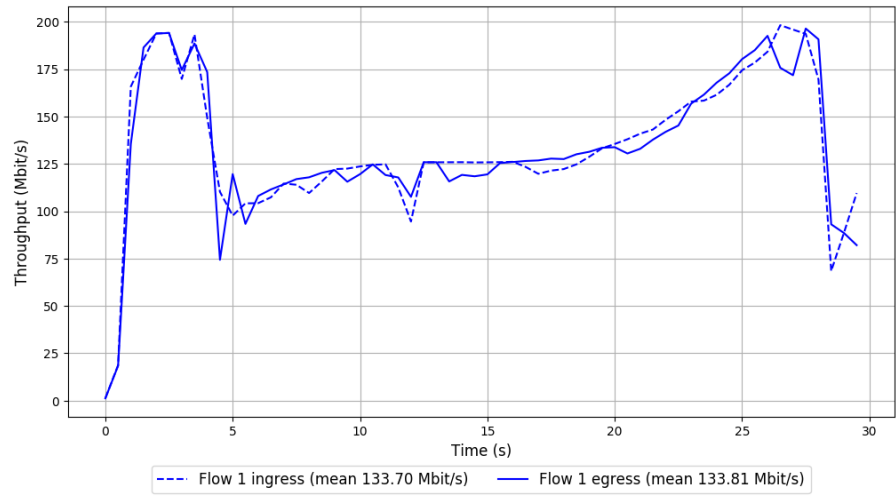
-- Flow 1:

Average throughput: 133.81 Mbit/s

95th percentile per-packet one-way delay: 70.809 ms

Loss rate: 0.35%

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



Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 18:49:01

End at: 2017-12-11 18:49:31

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.85 Mbit/s

95th percentile per-packet one-way delay: 70.858 ms

Loss rate: 1.00%

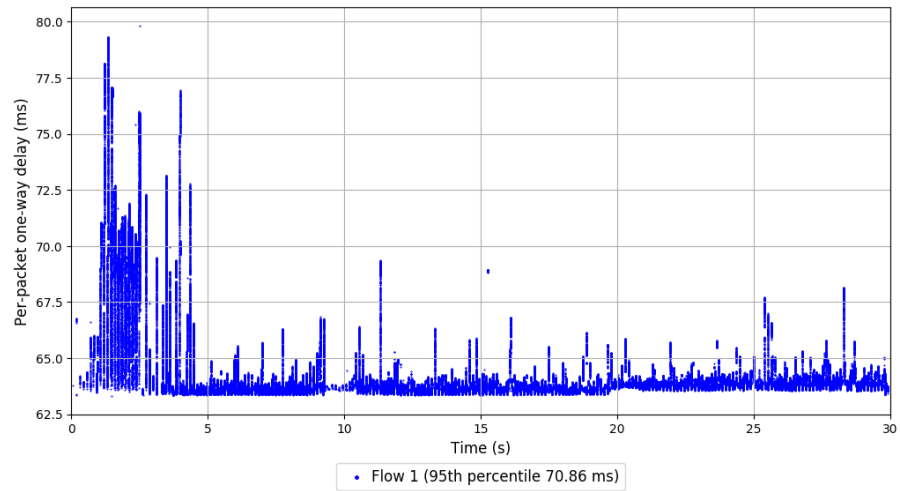
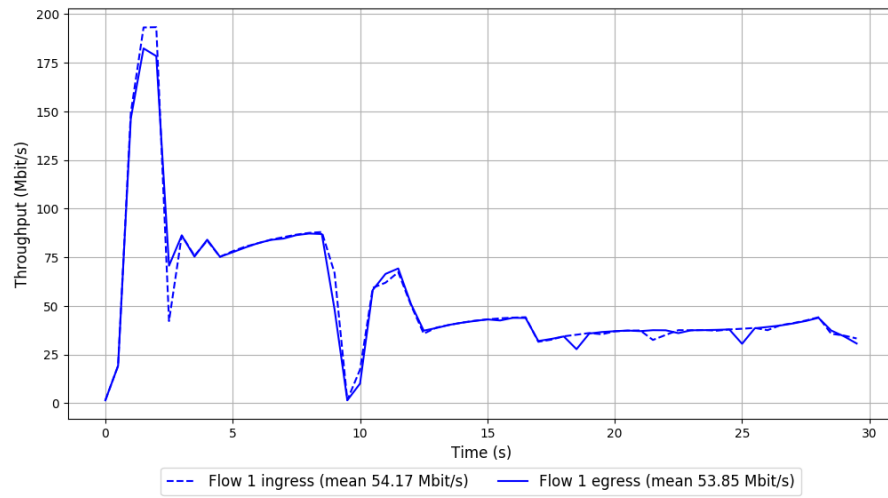
-- Flow 1:

Average throughput: 53.85 Mbit/s

95th percentile per-packet one-way delay: 70.858 ms

Loss rate: 1.00%

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



Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 18:59:32

End at: 2017-12-11 19:00:02

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 80.03 Mbit/s

95th percentile per-packet one-way delay: 72.575 ms

Loss rate: 0.40%

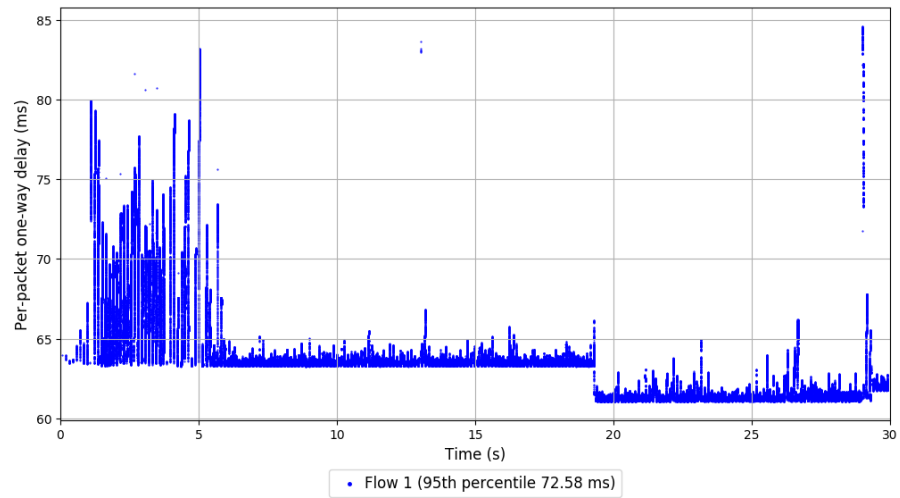
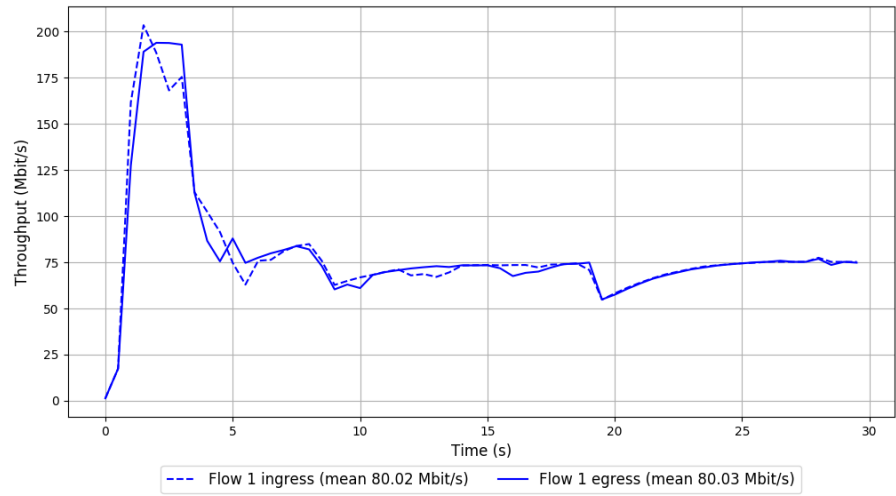
-- Flow 1:

Average throughput: 80.03 Mbit/s

95th percentile per-packet one-way delay: 72.575 ms

Loss rate: 0.40%

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



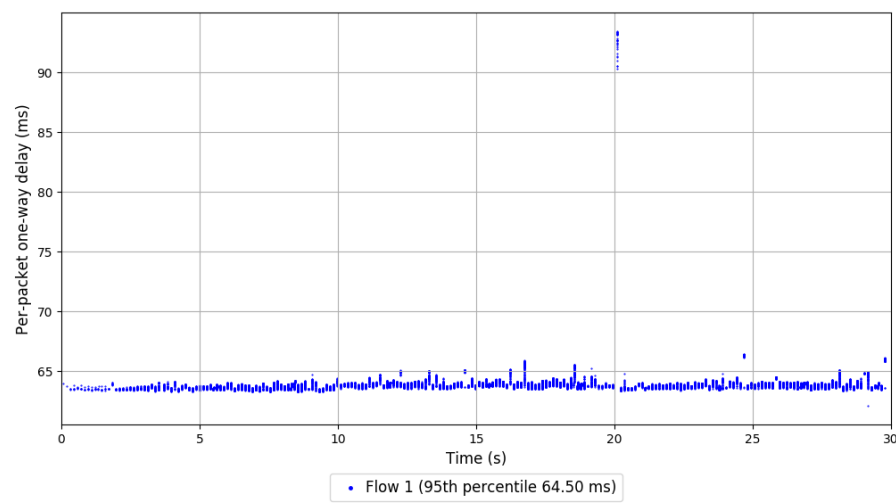
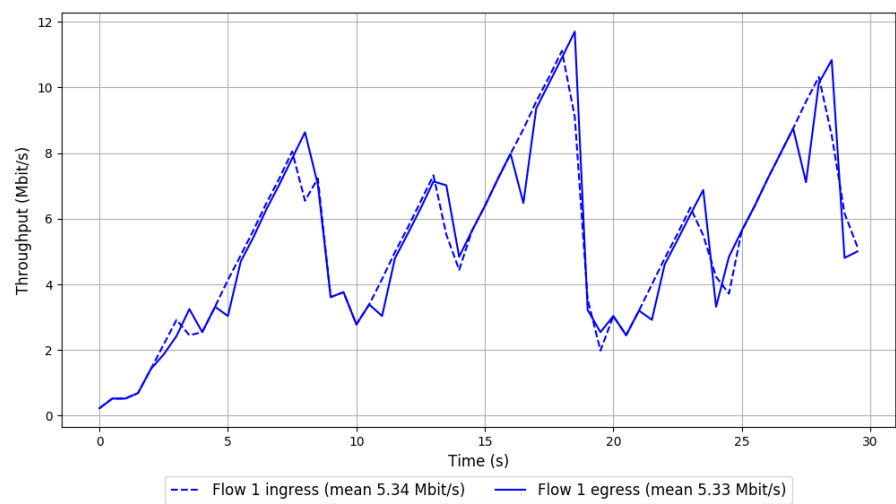
```
Run 1: Statistics of LEDBAT

Start at: 2017-12-11 17:24:01
End at: 2017-12-11 17:24:31

# Below is generated by plot.py at 2017-12-11 21:02:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 64.502 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 5.33 Mbit/s
95th percentile per-packet one-way delay: 64.502 ms
Loss rate: 0.67%
```



Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-12-11 17:35:04

End at: 2017-12-11 17:35:34

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 64.480 ms

Loss rate: 0.77%

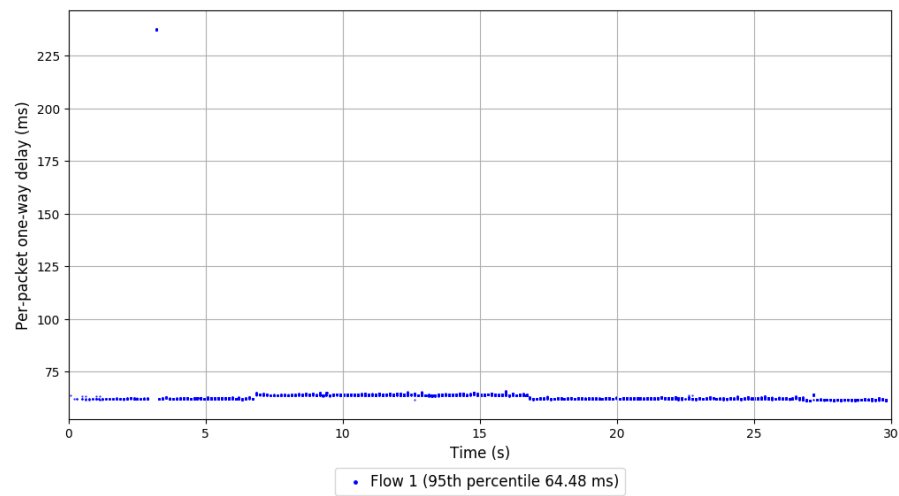
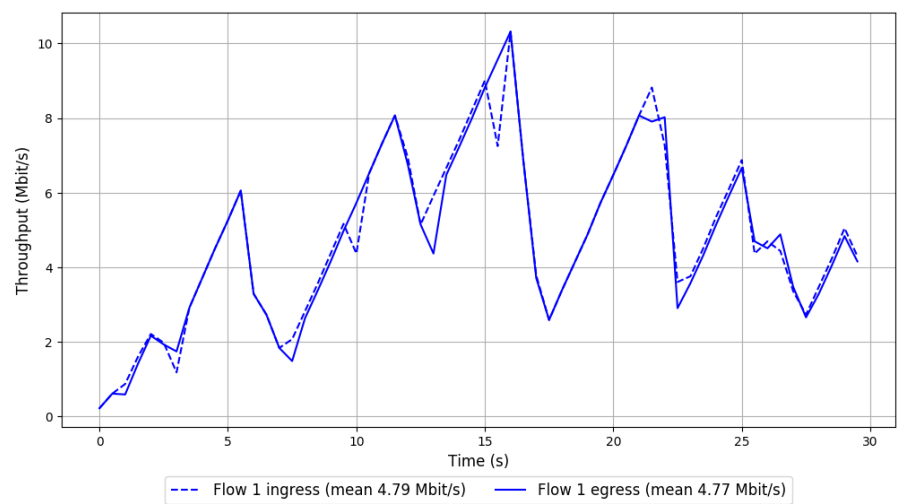
-- Flow 1:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 64.480 ms

Loss rate: 0.77%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-11 17:45:45

End at: 2017-12-11 17:46:15

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.53 Mbit/s

95th percentile per-packet one-way delay: 64.687 ms

Loss rate: 0.80%

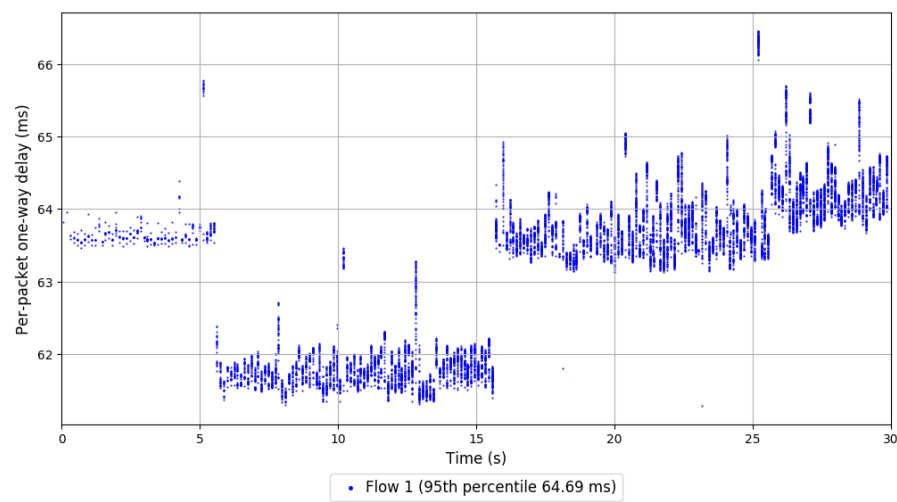
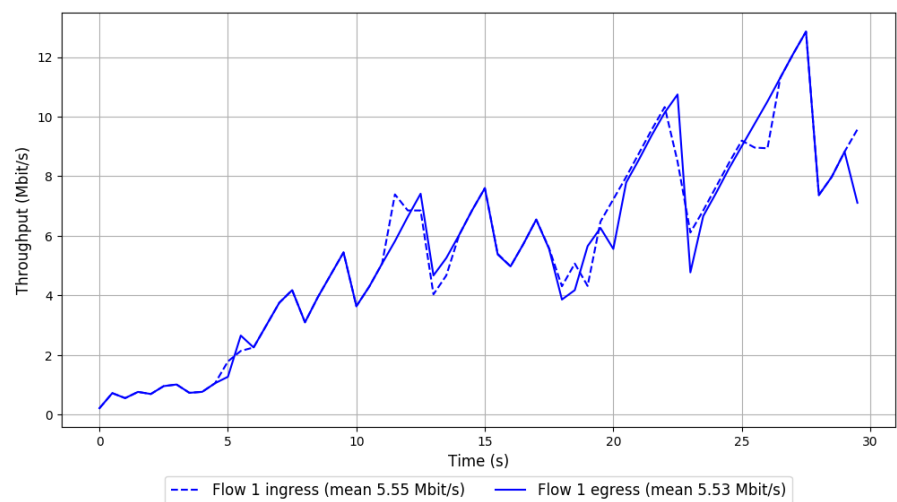
-- Flow 1:

Average throughput: 5.53 Mbit/s

95th percentile per-packet one-way delay: 64.687 ms

Loss rate: 0.80%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-11 17:56:26

End at: 2017-12-11 17:56:56

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 64.164 ms

Loss rate: 0.35%

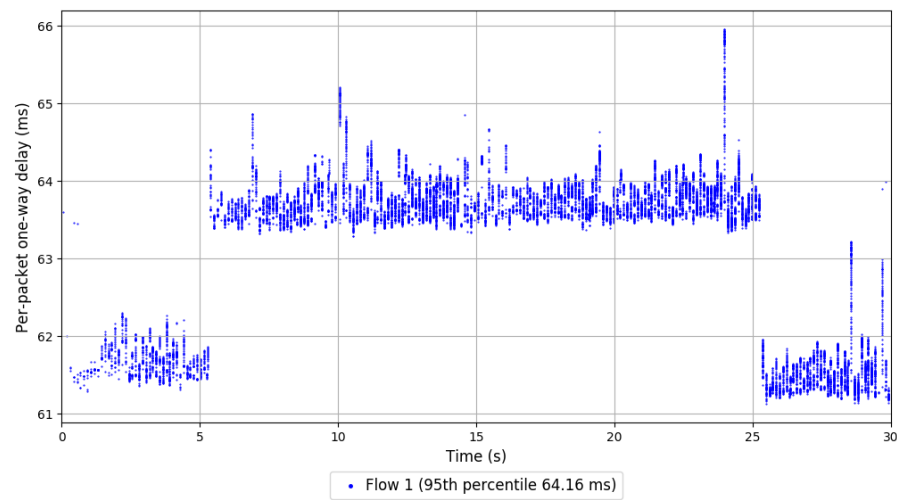
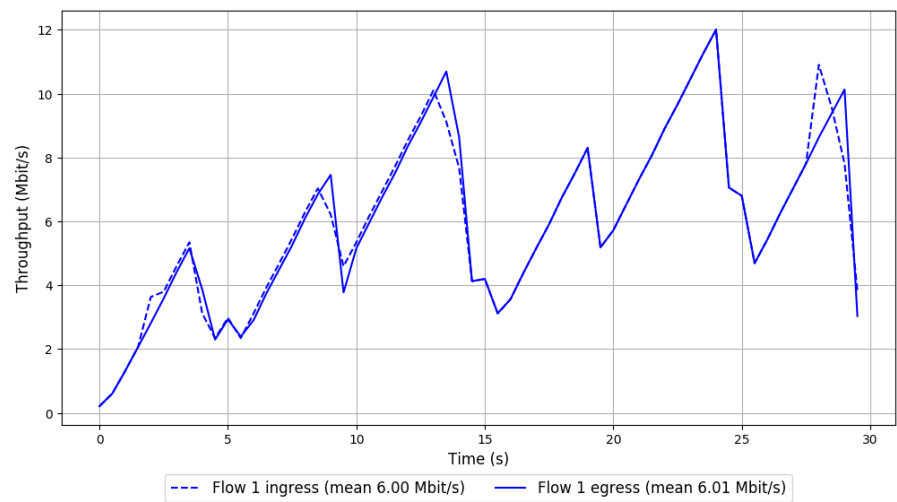
-- Flow 1:

Average throughput: 6.01 Mbit/s

95th percentile per-packet one-way delay: 64.164 ms

Loss rate: 0.35%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-11 18:07:03

End at: 2017-12-11 18:07:33

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 64.641 ms

Loss rate: 0.47%

-- Flow 1:

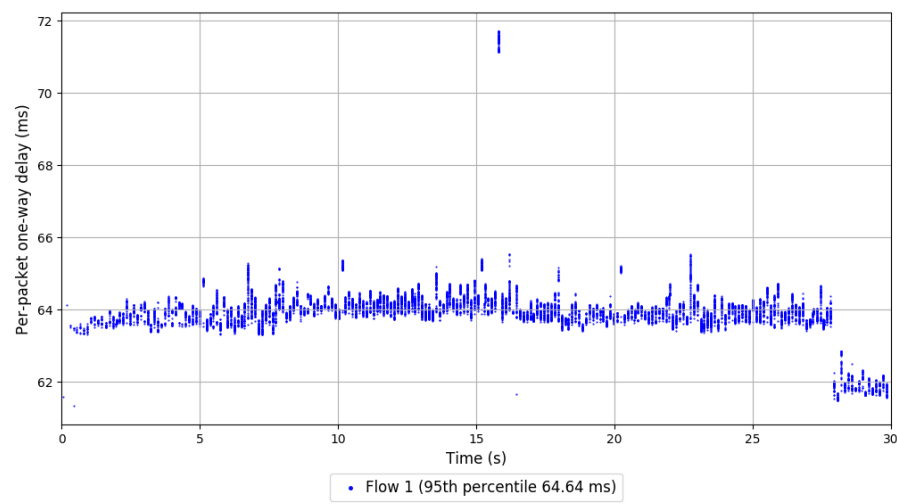
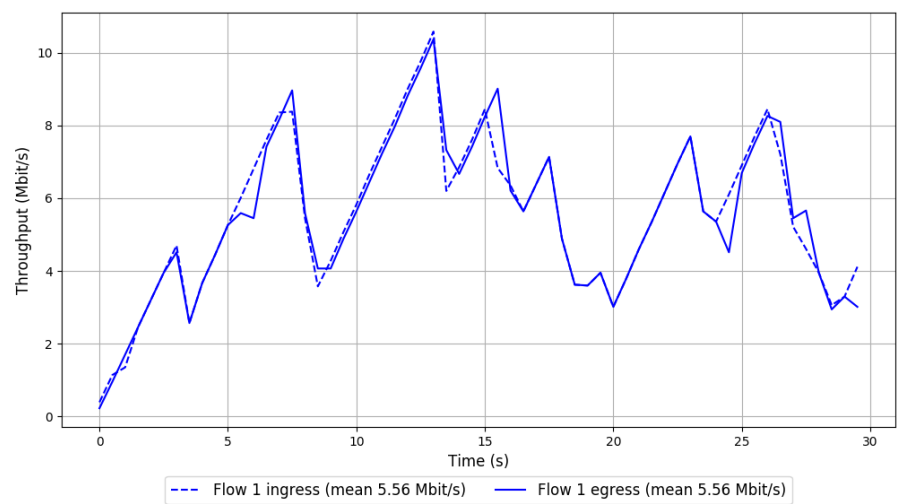
Average throughput: 5.56 Mbit/s

95th percentile per-packet one-way delay: 64.641 ms

Loss rate: 0.47%



Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-11 18:17:43

End at: 2017-12-11 18:18:13

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 64.449 ms

Loss rate: 0.90%

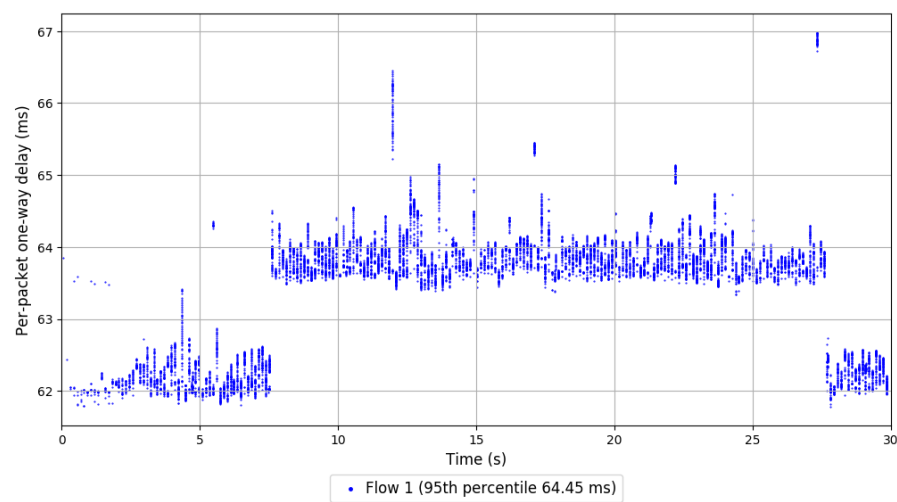
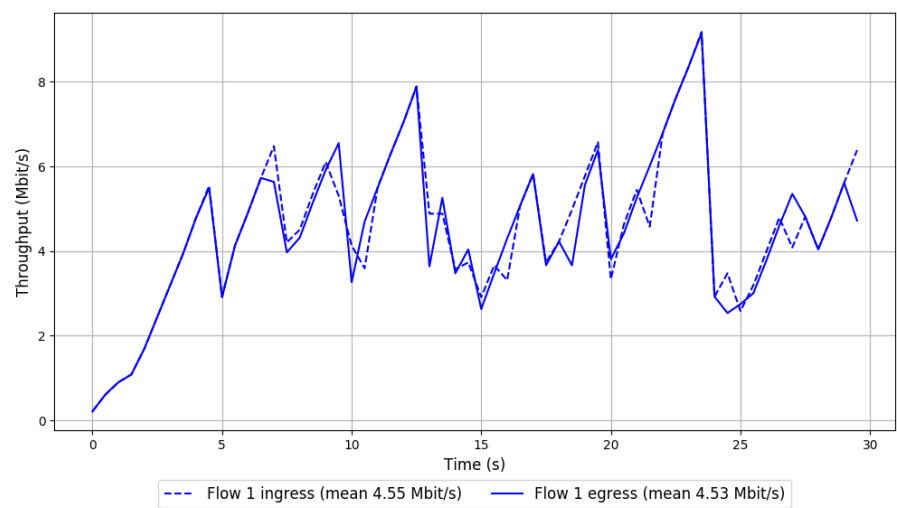
-- Flow 1:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 64.449 ms

Loss rate: 0.90%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-11 18:28:25

End at: 2017-12-11 18:28:55

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 64.041 ms

Loss rate: 0.90%

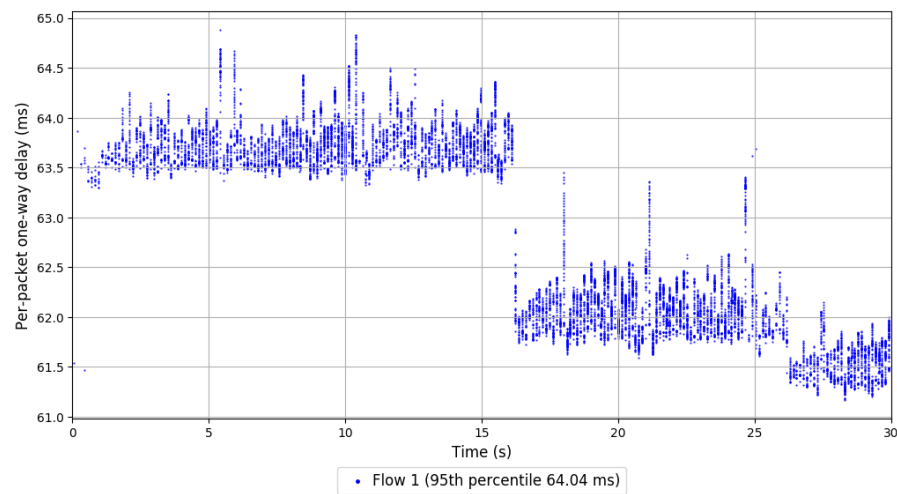
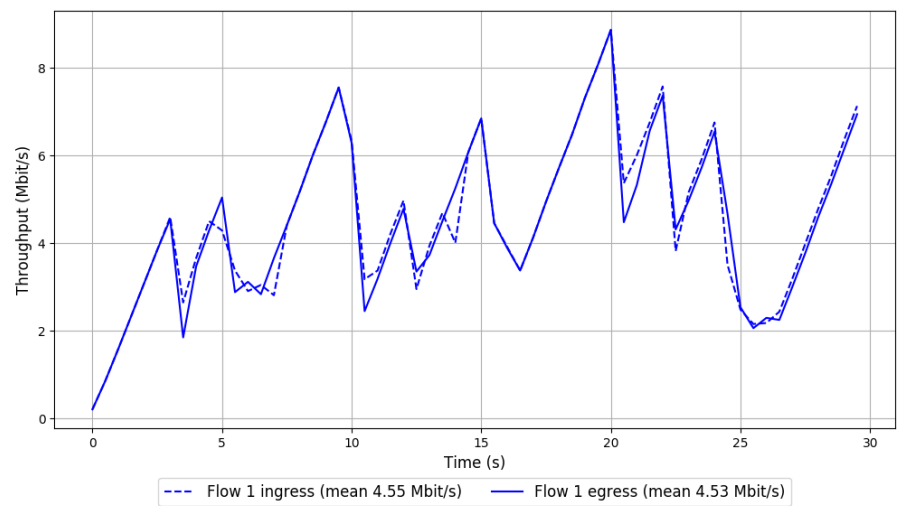
-- Flow 1:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 64.041 ms

Loss rate: 0.90%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-11 18:39:07

End at: 2017-12-11 18:39:38

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 65.016 ms

Loss rate: 0.47%

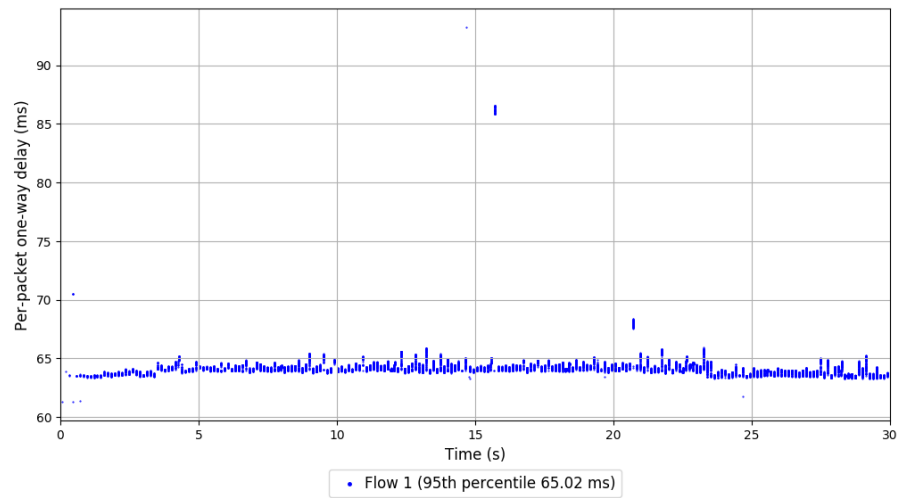
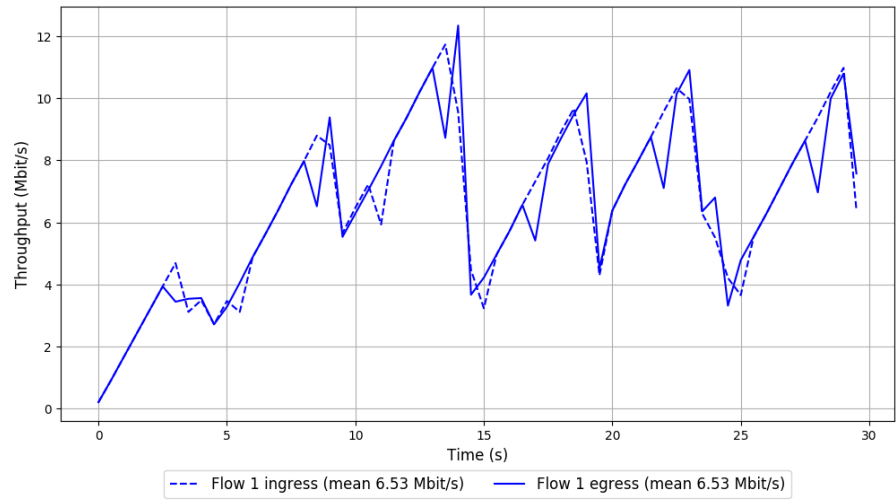
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 65.016 ms

Loss rate: 0.47%

## Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-11 18:49:42

End at: 2017-12-11 18:50:12

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 64.827 ms

Loss rate: 0.57%

-- Flow 1:

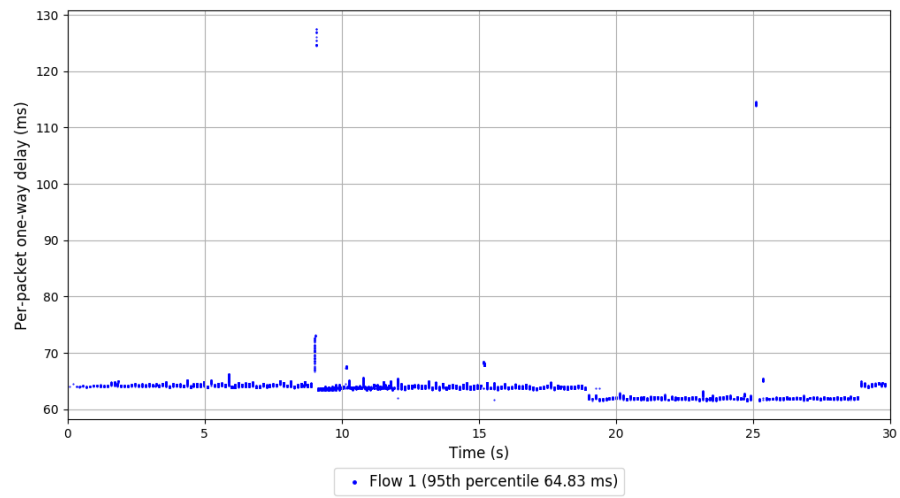
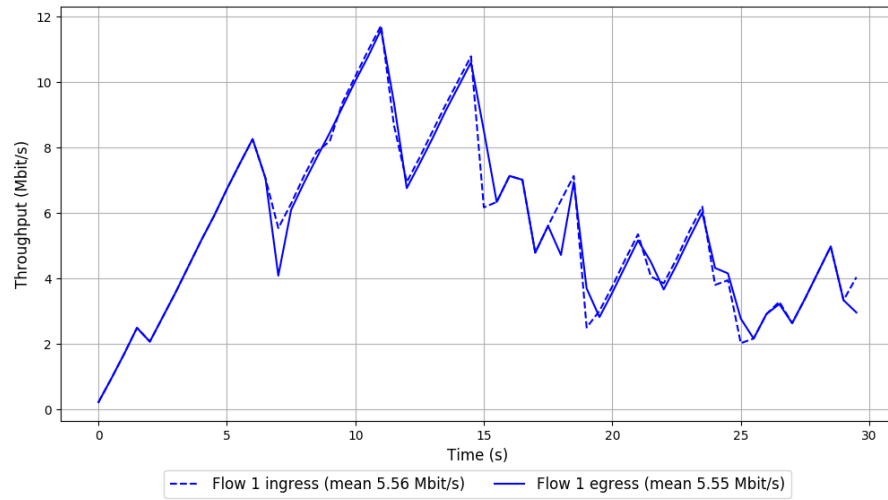
Average throughput: 5.55 Mbit/s

95th percentile per-packet one-way delay: 64.827 ms

Loss rate: 0.57%



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



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 19:00:14

End at: 2017-12-11 19:00:44

# Below is generated by plot.py at 2017-12-11 21:02:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 63.907 ms

Loss rate: 0.76%

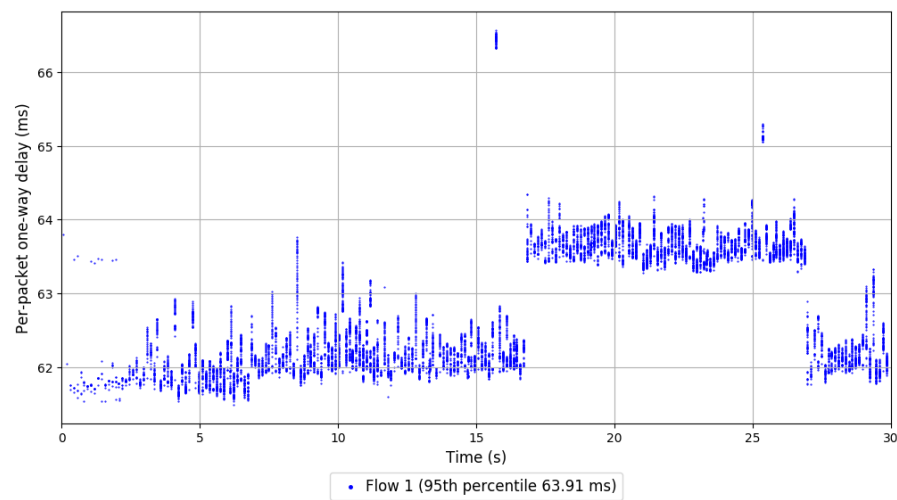
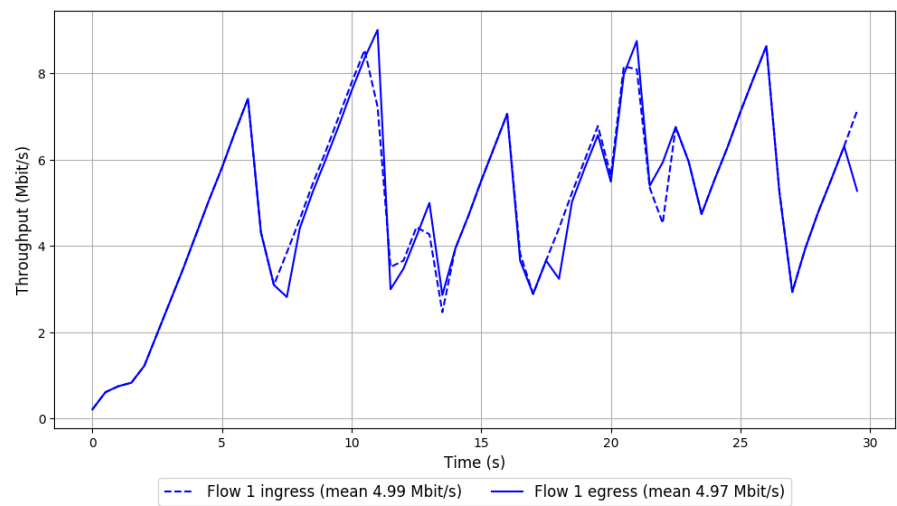
-- Flow 1:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 63.907 ms

Loss rate: 0.76%

Run 10: Report of LEDBAT — Data Link

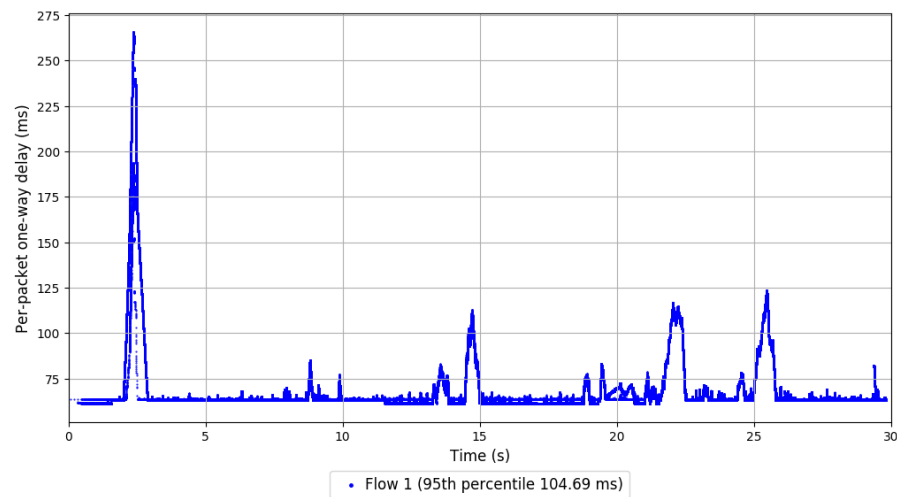
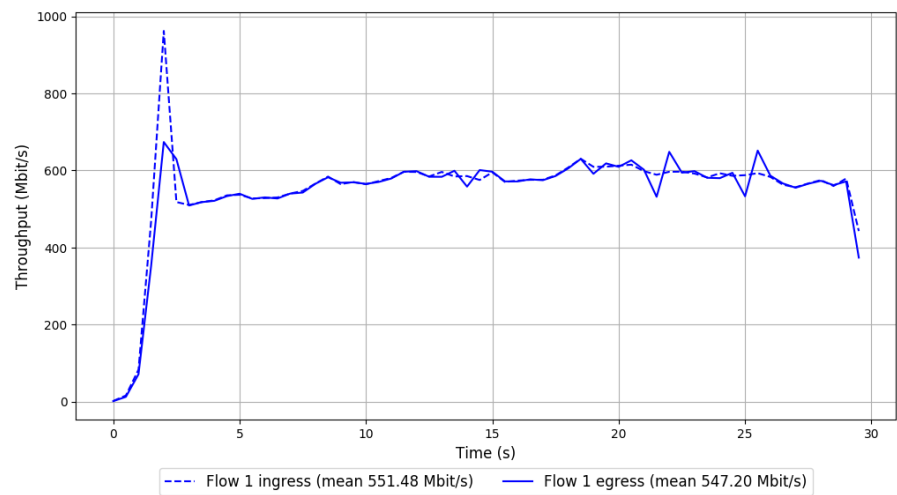


```
Run 1: Statistics of PCC

Start at: 2017-12-11 17:20:39
End at: 2017-12-11 17:21:09

# Below is generated by plot.py at 2017-12-11 21:11:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 547.20 Mbit/s
95th percentile per-packet one-way delay: 104.691 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 547.20 Mbit/s
95th percentile per-packet one-way delay: 104.691 ms
Loss rate: 1.20%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-11 17:31:48

End at: 2017-12-11 17:32:18

# Below is generated by plot.py at 2017-12-11 21:11:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 566.75 Mbit/s

95th percentile per-packet one-way delay: 147.826 ms

Loss rate: 1.06%

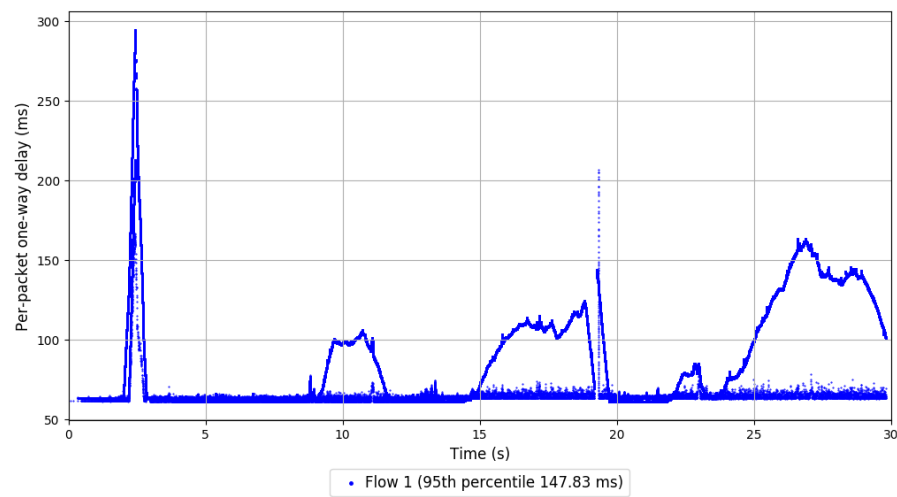
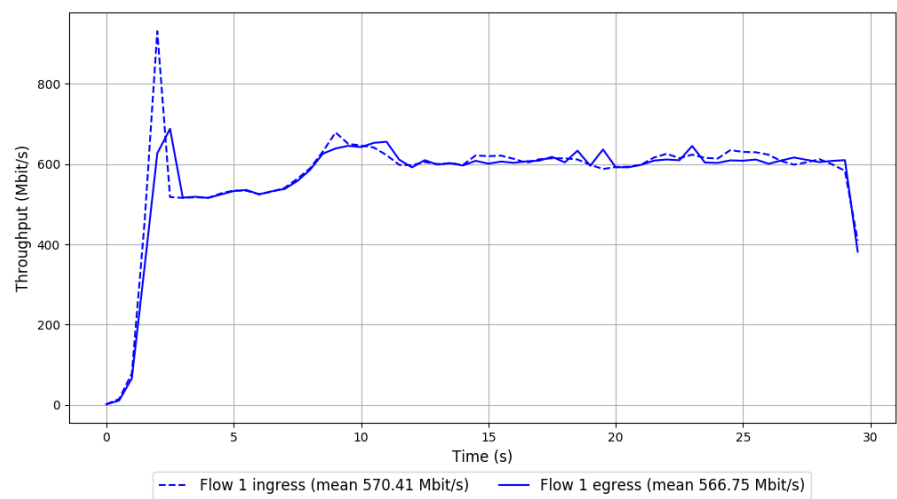
-- Flow 1:

Average throughput: 566.75 Mbit/s

95th percentile per-packet one-way delay: 147.826 ms

Loss rate: 1.06%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-11 17:42:30

End at: 2017-12-11 17:43:00

# Below is generated by plot.py at 2017-12-11 21:11:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 540.34 Mbit/s

95th percentile per-packet one-way delay: 150.848 ms

Loss rate: 0.92%

-- Flow 1:

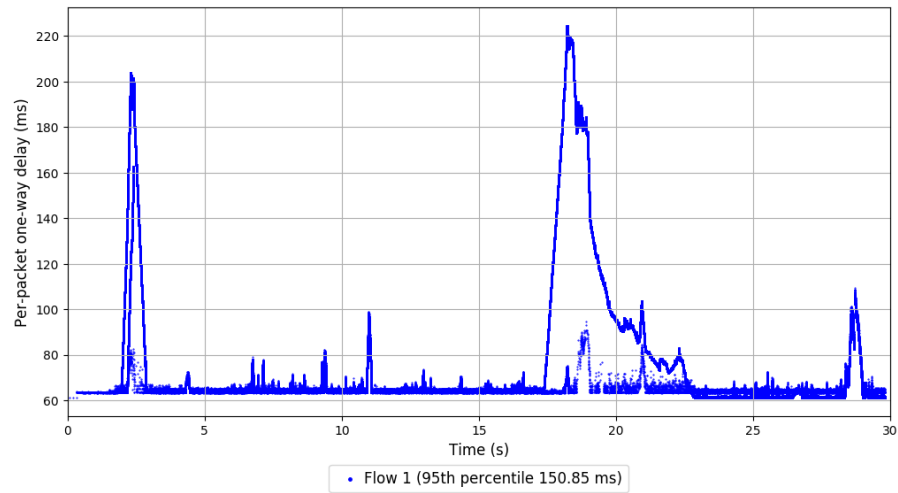
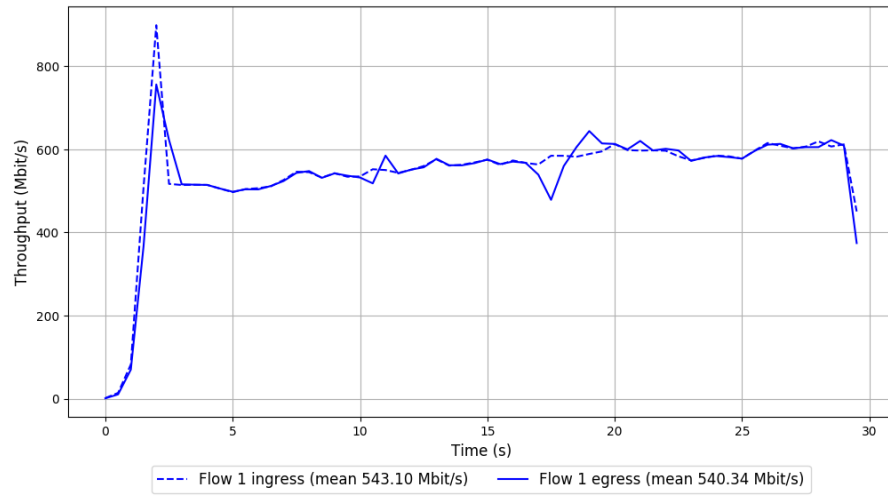
Average throughput: 540.34 Mbit/s

95th percentile per-packet one-way delay: 150.848 ms

Loss rate: 0.92%



### Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-12-11 17:53:07

End at: 2017-12-11 17:53:37

# Below is generated by plot.py at 2017-12-11 21:11:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 514.04 Mbit/s

95th percentile per-packet one-way delay: 192.675 ms

Loss rate: 1.98%

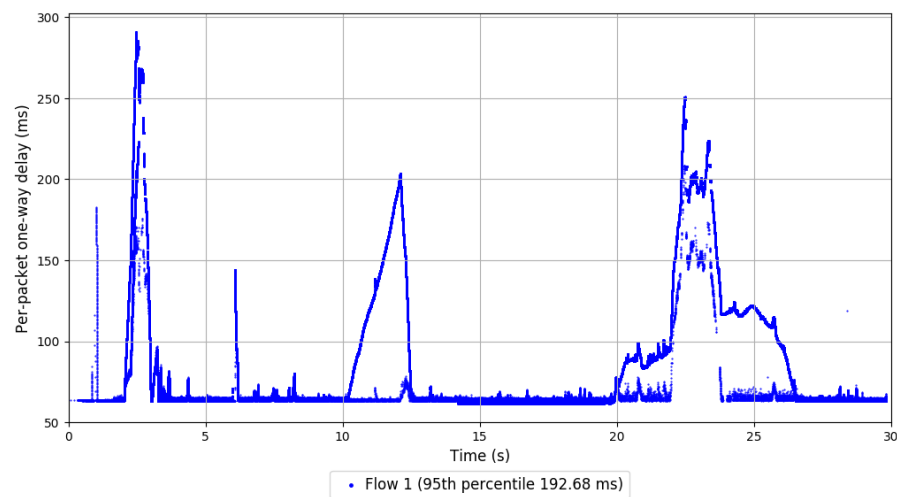
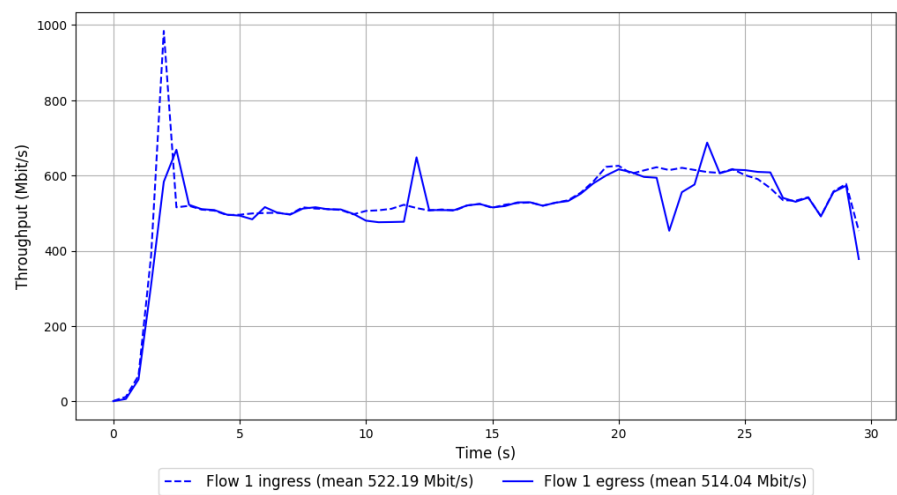
-- Flow 1:

Average throughput: 514.04 Mbit/s

95th percentile per-packet one-way delay: 192.675 ms

Loss rate: 1.98%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-11 18:03:51

End at: 2017-12-11 18:04:21

# Below is generated by plot.py at 2017-12-11 21:12:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 569.62 Mbit/s

95th percentile per-packet one-way delay: 132.366 ms

Loss rate: 1.19%

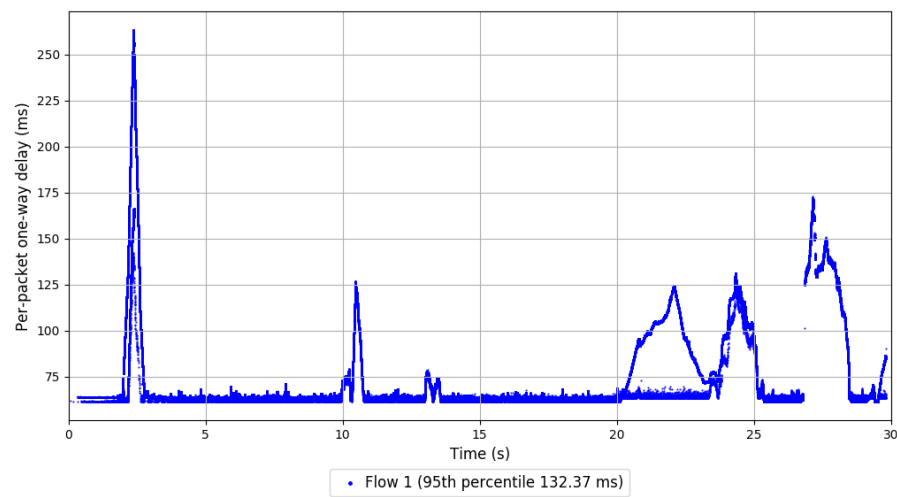
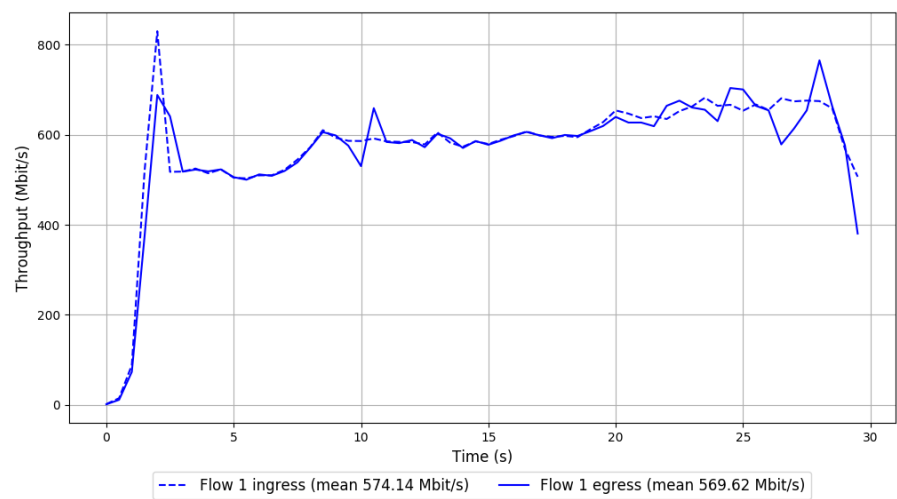
-- Flow 1:

Average throughput: 569.62 Mbit/s

95th percentile per-packet one-way delay: 132.366 ms

Loss rate: 1.19%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-11 18:14:25

End at: 2017-12-11 18:14:55

# Below is generated by plot.py at 2017-12-11 21:13:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 585.62 Mbit/s

95th percentile per-packet one-way delay: 158.836 ms

Loss rate: 1.33%

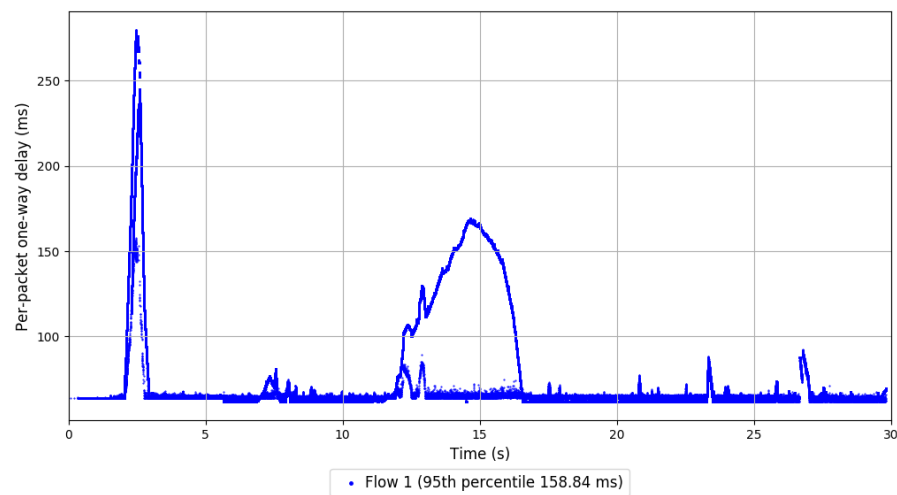
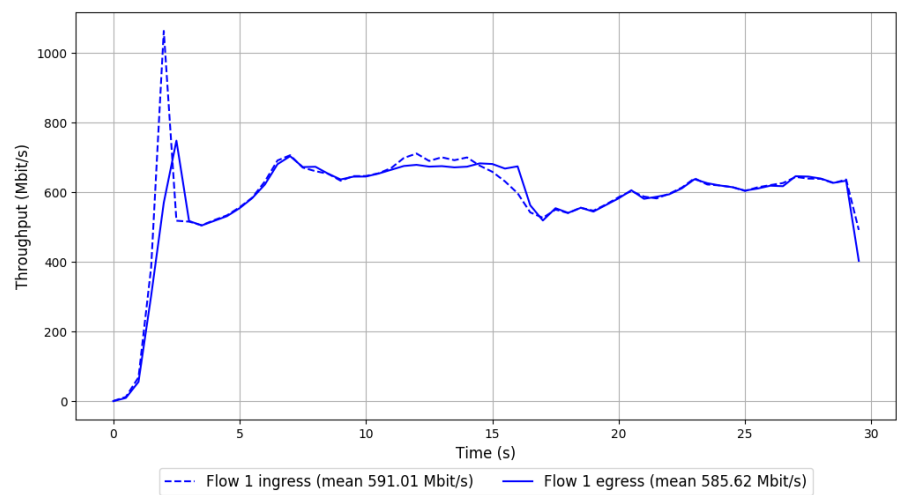
-- Flow 1:

Average throughput: 585.62 Mbit/s

95th percentile per-packet one-way delay: 158.836 ms

Loss rate: 1.33%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-11 18:25:09

End at: 2017-12-11 18:25:39

# Below is generated by plot.py at 2017-12-11 21:13:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 536.73 Mbit/s

95th percentile per-packet one-way delay: 110.464 ms

Loss rate: 1.15%

-- Flow 1:

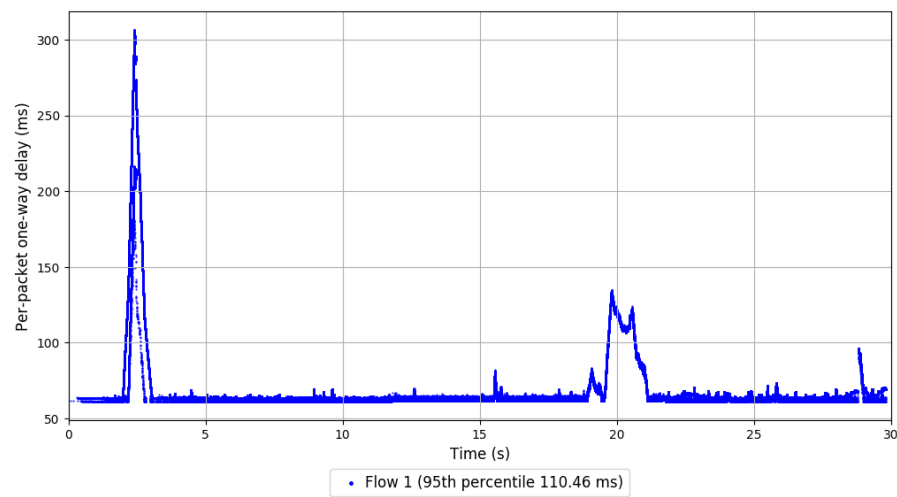
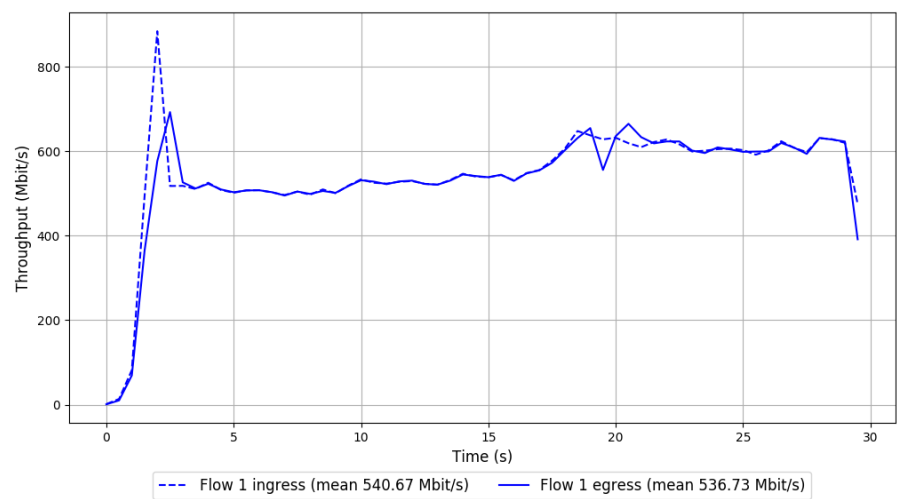
Average throughput: 536.73 Mbit/s

95th percentile per-packet one-way delay: 110.464 ms

Loss rate: 1.15%



Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-11 18:35:48

End at: 2017-12-11 18:36:18

# Below is generated by plot.py at 2017-12-11 21:14:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 571.49 Mbit/s

95th percentile per-packet one-way delay: 124.472 ms

Loss rate: 1.56%

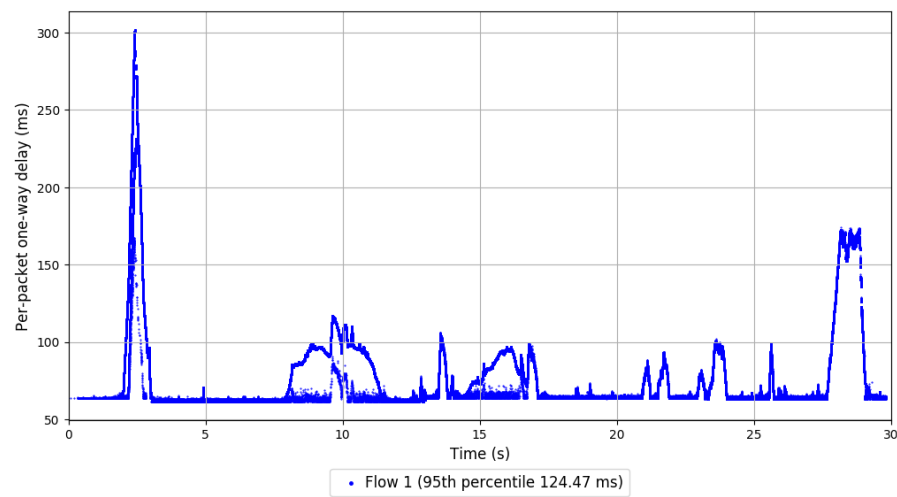
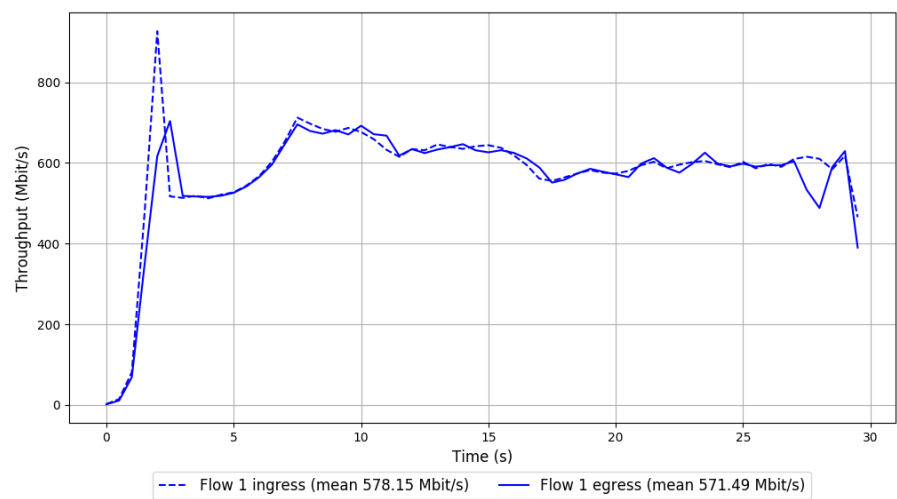
-- Flow 1:

Average throughput: 571.49 Mbit/s

95th percentile per-packet one-way delay: 124.472 ms

Loss rate: 1.56%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-11 18:46:27

End at: 2017-12-11 18:46:57

# Below is generated by plot.py at 2017-12-11 21:22:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 591.74 Mbit/s

95th percentile per-packet one-way delay: 111.786 ms

Loss rate: 1.17%

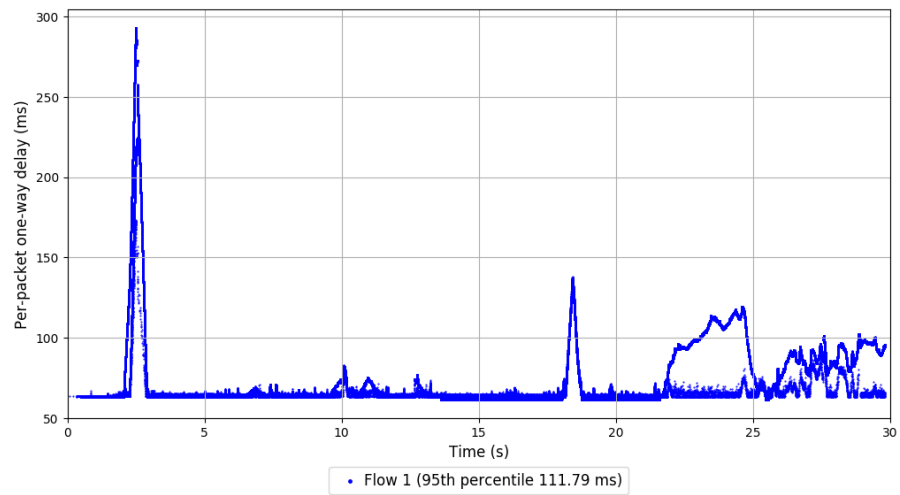
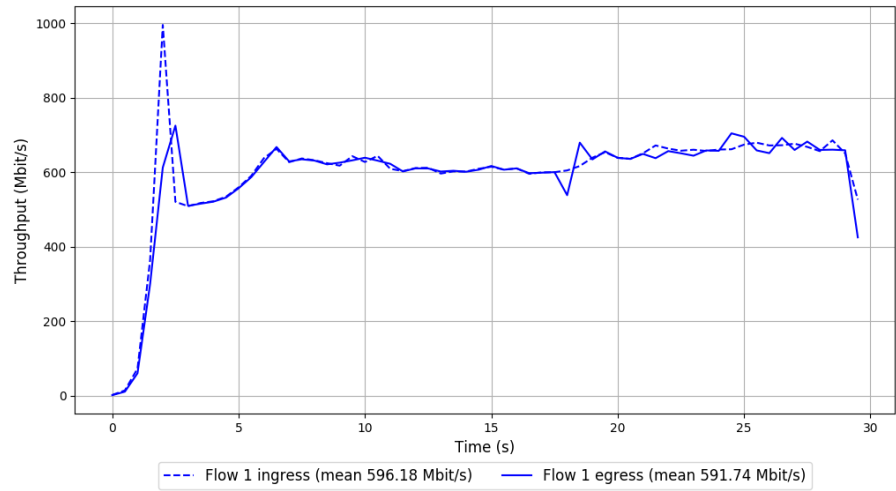
-- Flow 1:

Average throughput: 591.74 Mbit/s

95th percentile per-packet one-way delay: 111.786 ms

Loss rate: 1.17%

### Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 18:56:58

End at: 2017-12-11 18:57:28

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 583.23 Mbit/s

95th percentile per-packet one-way delay: 138.755 ms

Loss rate: 2.13%

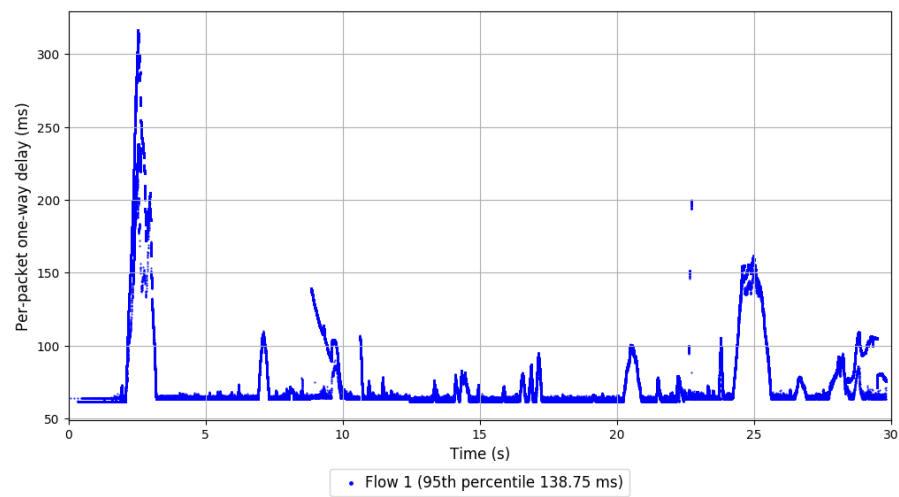
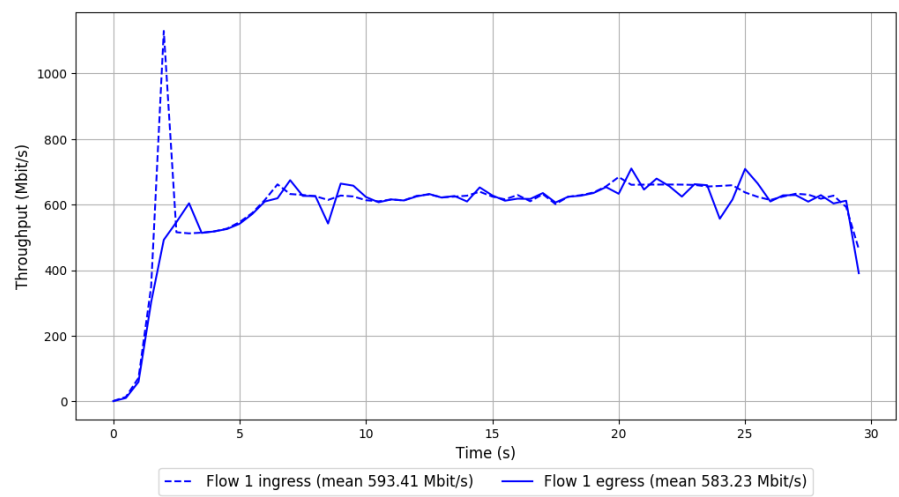
-- Flow 1:

Average throughput: 583.23 Mbit/s

95th percentile per-packet one-way delay: 138.755 ms

Loss rate: 2.13%

Run 10: Report of PCC — Data Link



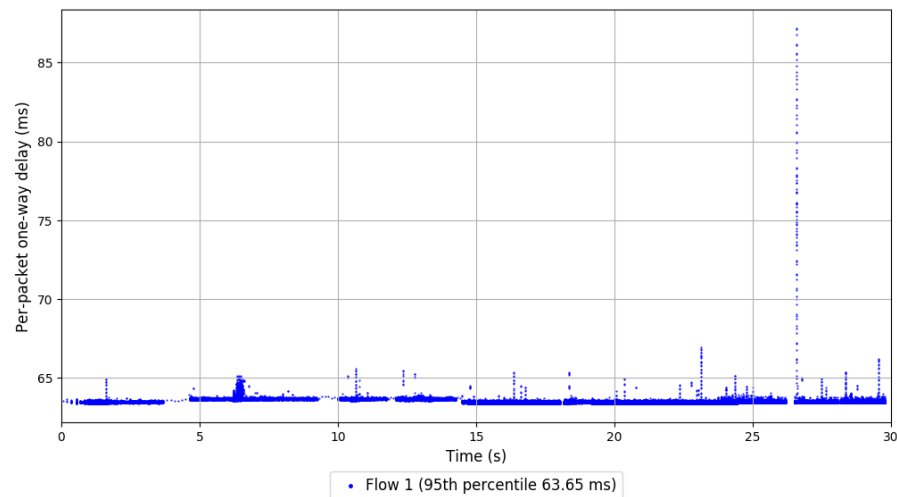
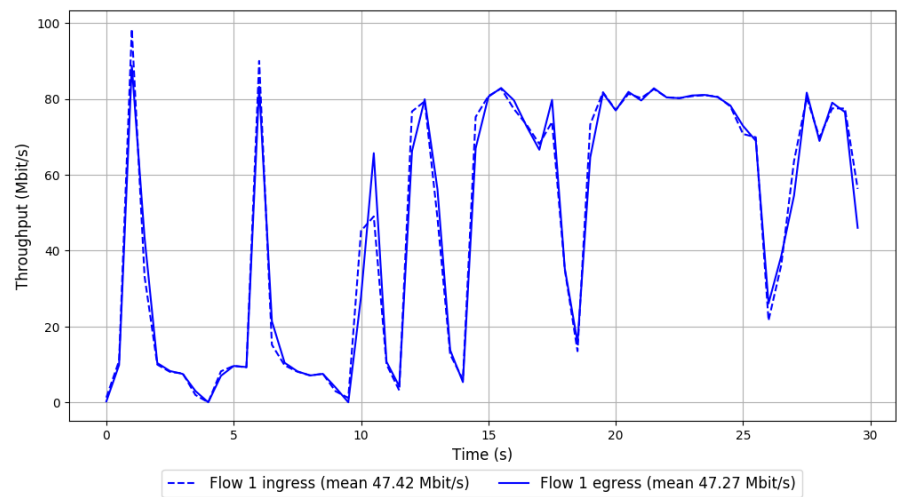
```
Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 17:25:36
End at: 2017-12-11 17:26:06

# Below is generated by plot.py at 2017-12-11 21:22:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 63.645 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 47.27 Mbit/s
95th percentile per-packet one-way delay: 63.645 ms
Loss rate: 0.72%
```



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 17:36:29

End at: 2017-12-11 17:36:59

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.45 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.64%

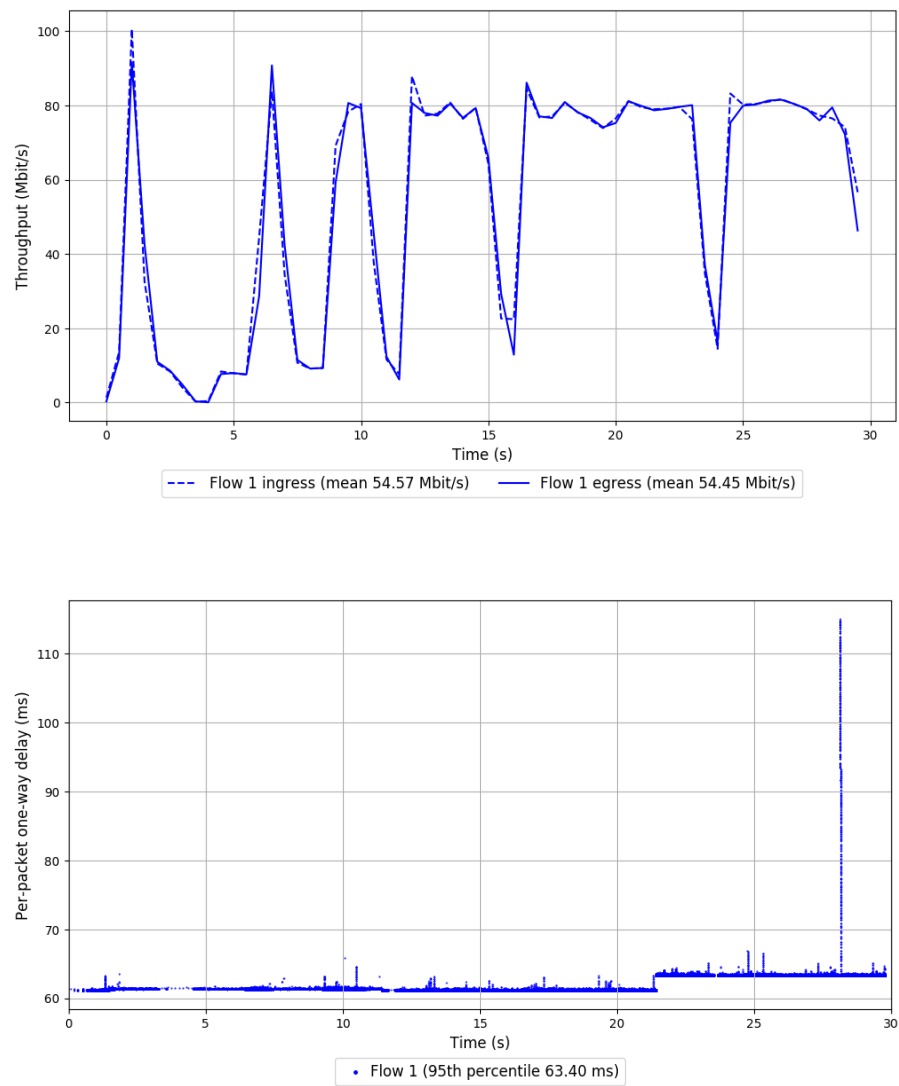
-- Flow 1:

Average throughput: 54.45 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.64%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-12-11 17:47:11

End at: 2017-12-11 17:47:41

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 63.853 ms

Loss rate: 0.66%

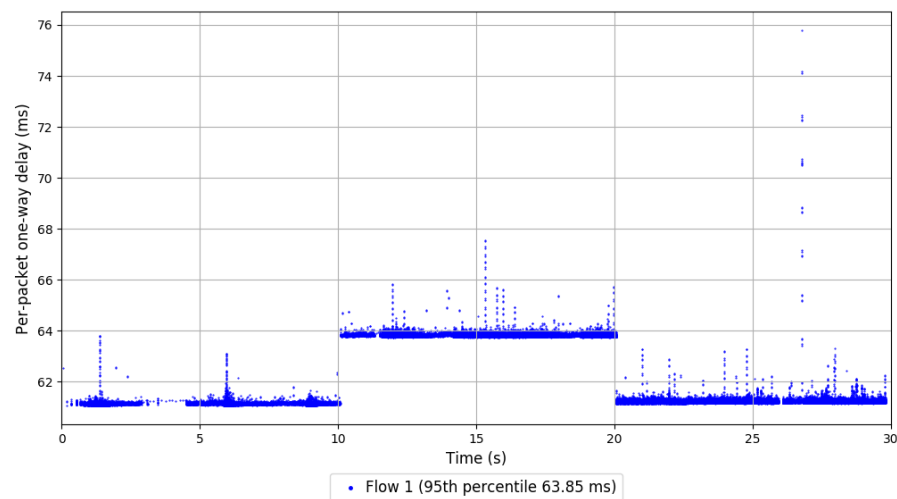
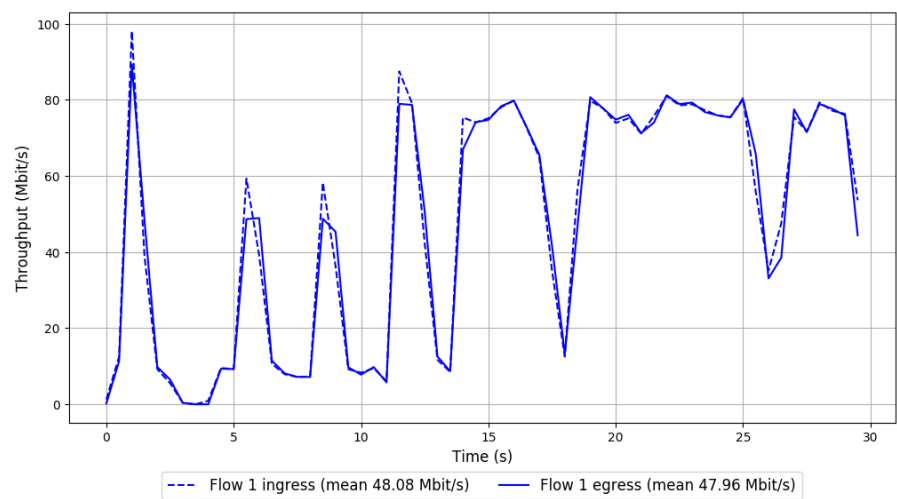
-- Flow 1:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 63.853 ms

Loss rate: 0.66%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 17:57:51

End at: 2017-12-11 17:58:21

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.03 Mbit/s

95th percentile per-packet one-way delay: 63.462 ms

Loss rate: 0.64%

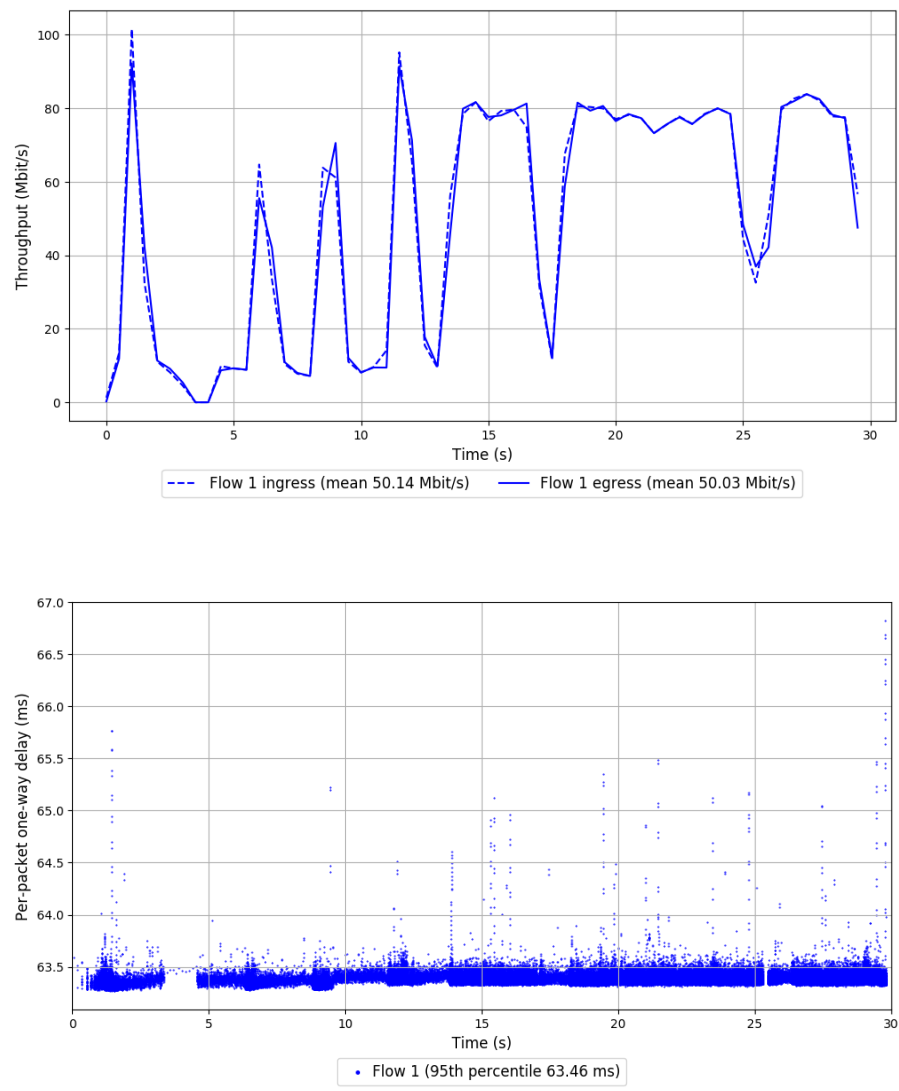
-- Flow 1:

Average throughput: 50.03 Mbit/s

95th percentile per-packet one-way delay: 63.462 ms

Loss rate: 0.64%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 18:08:28

End at: 2017-12-11 18:08:58

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.50 Mbit/s

95th percentile per-packet one-way delay: 63.414 ms

Loss rate: 0.75%

-- Flow 1:

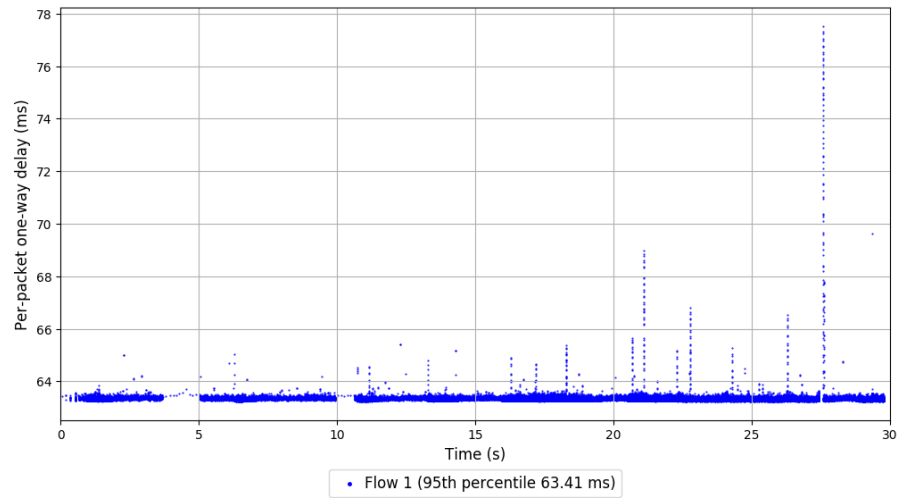
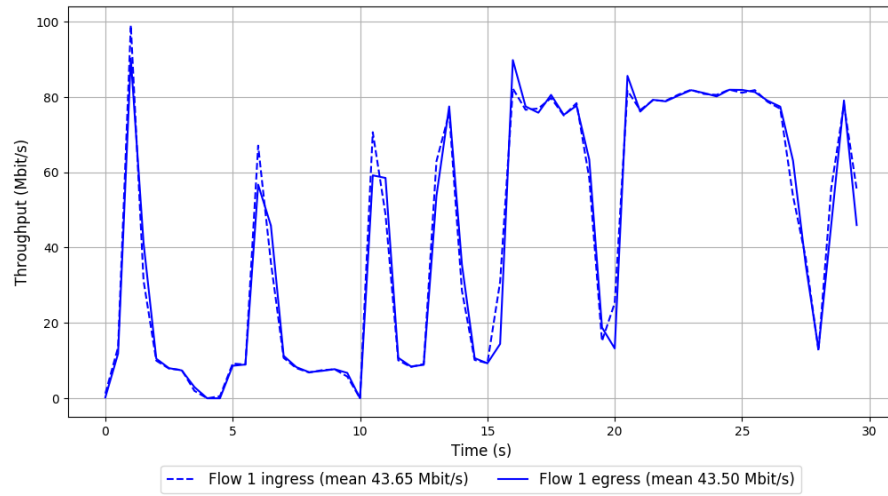
Average throughput: 43.50 Mbit/s

95th percentile per-packet one-way delay: 63.414 ms

Loss rate: 0.75%



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



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 18:19:09

End at: 2017-12-11 18:19:39

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 63.472 ms

Loss rate: 0.68%

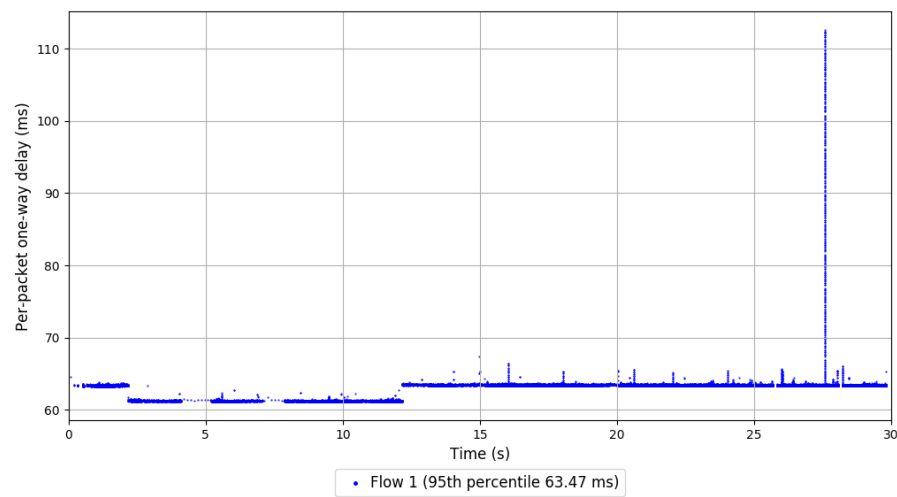
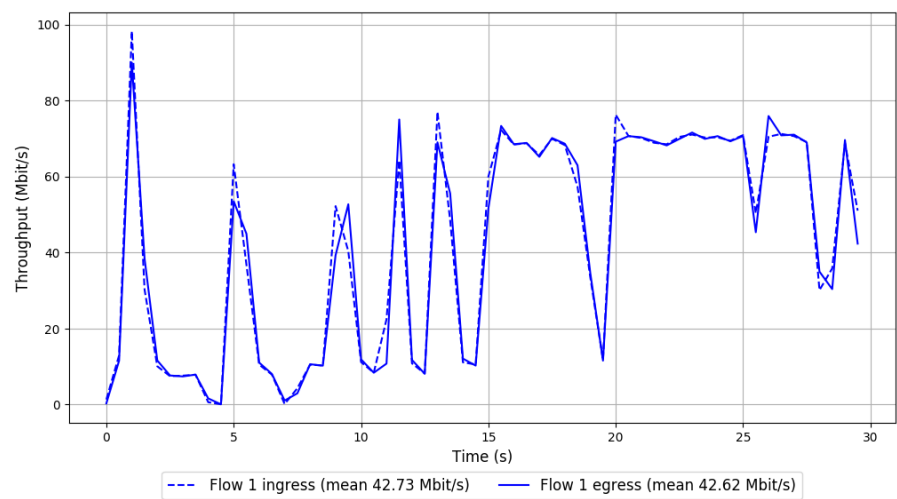
-- Flow 1:

Average throughput: 42.62 Mbit/s

95th percentile per-packet one-way delay: 63.472 ms

Loss rate: 0.68%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 18:29:50

End at: 2017-12-11 18:30:20

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 43.76 Mbit/s

95th percentile per-packet one-way delay: 63.618 ms

Loss rate: 0.79%

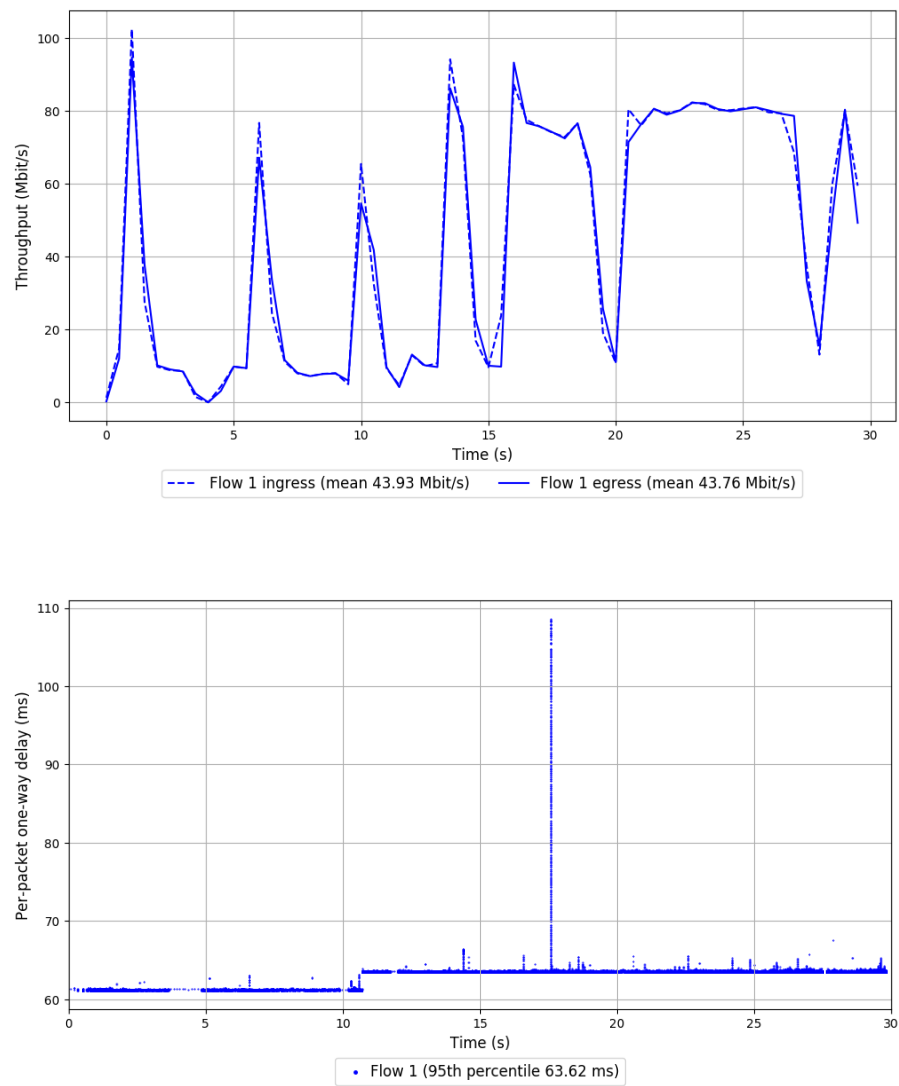
-- Flow 1:

Average throughput: 43.76 Mbit/s

95th percentile per-packet one-way delay: 63.618 ms

Loss rate: 0.79%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-11 18:40:33

End at: 2017-12-11 18:41:03

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 63.540 ms

Loss rate: 0.64%

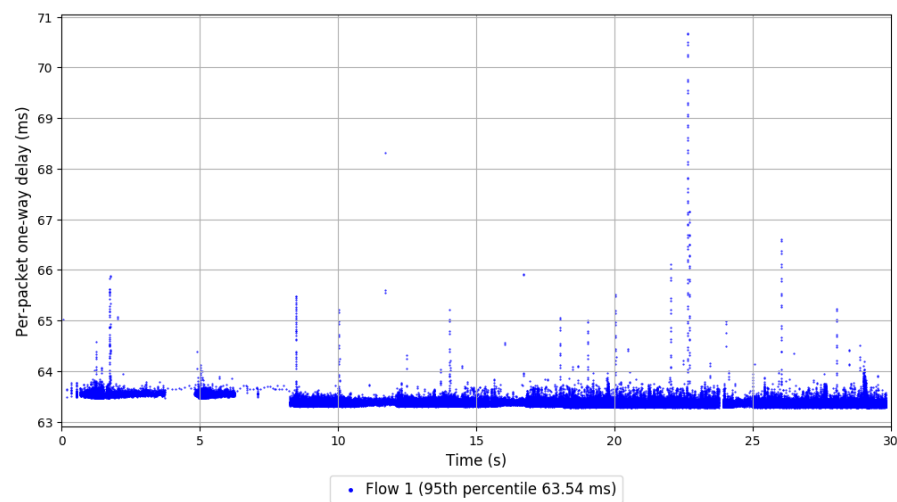
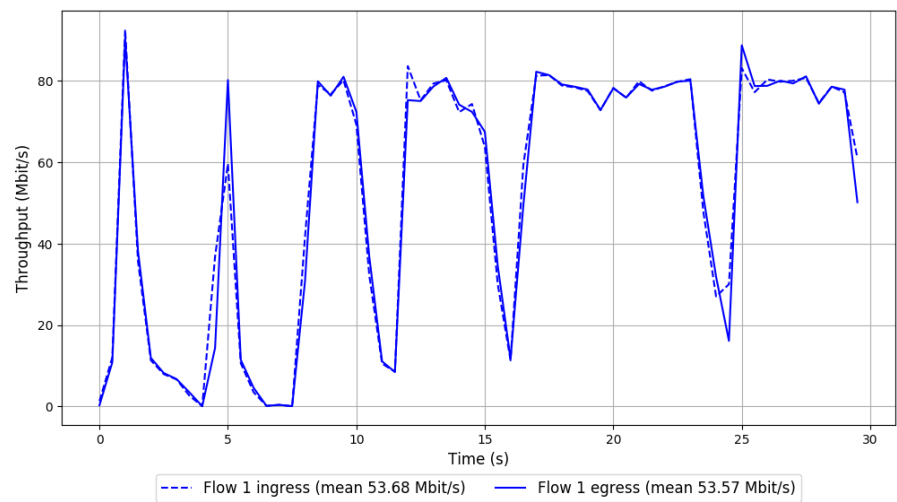
-- Flow 1:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 63.540 ms

Loss rate: 0.64%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 18:51:07

End at: 2017-12-11 18:51:37

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.60%

-- Flow 1:

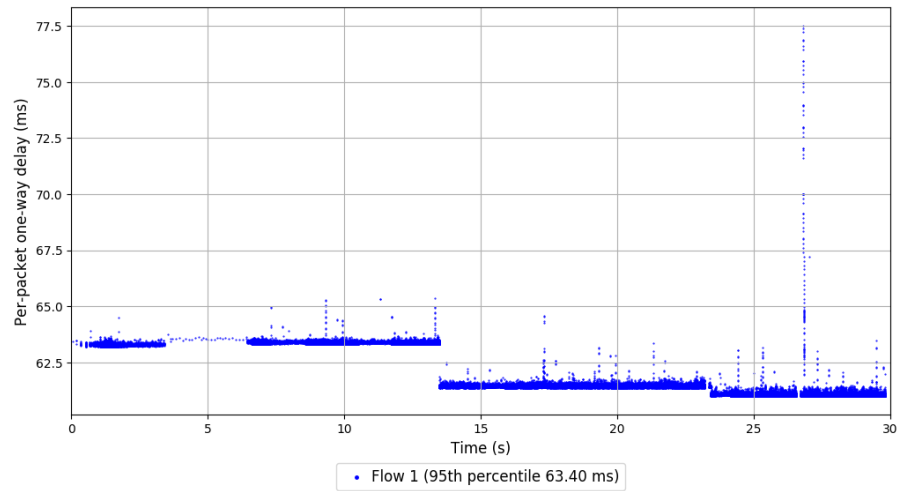
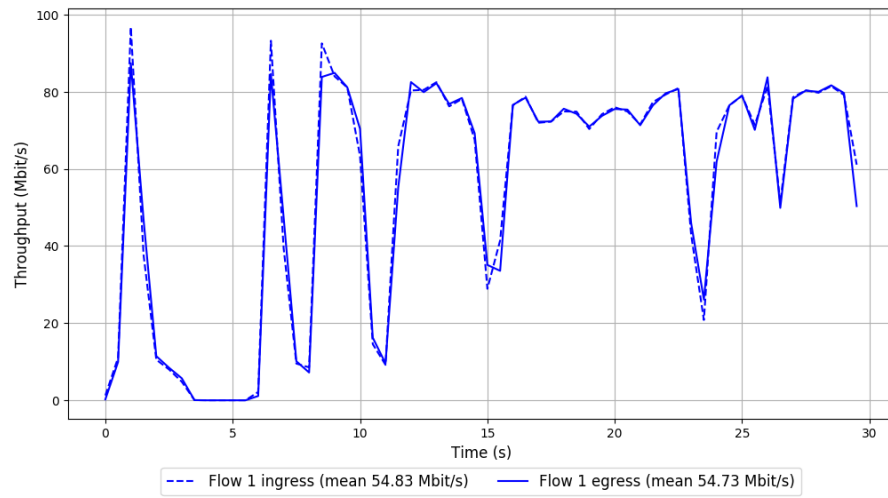
Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.60%



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



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-11 19:01:39

End at: 2017-12-11 19:02:09

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 63.141 ms

Loss rate: 0.59%

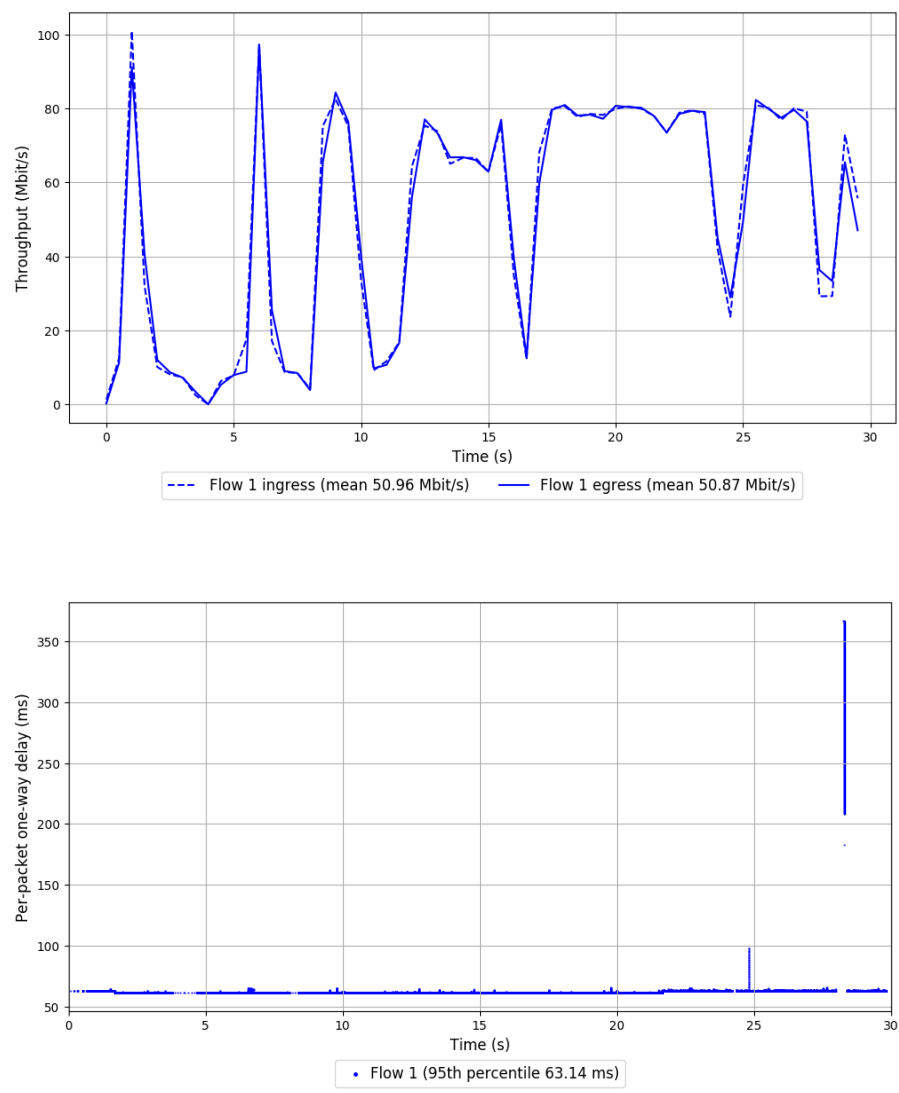
-- Flow 1:

Average throughput: 50.87 Mbit/s

95th percentile per-packet one-way delay: 63.141 ms

Loss rate: 0.59%

Run 10: Report of QUIC Cubic — Data Link

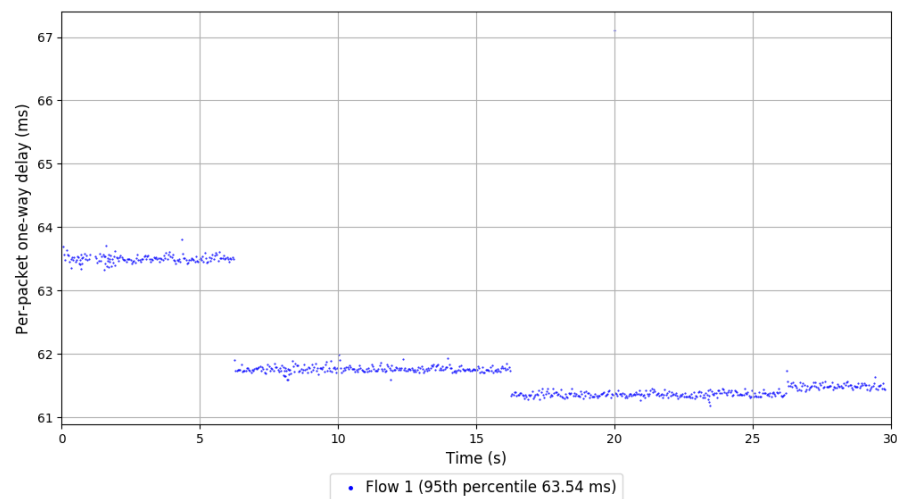
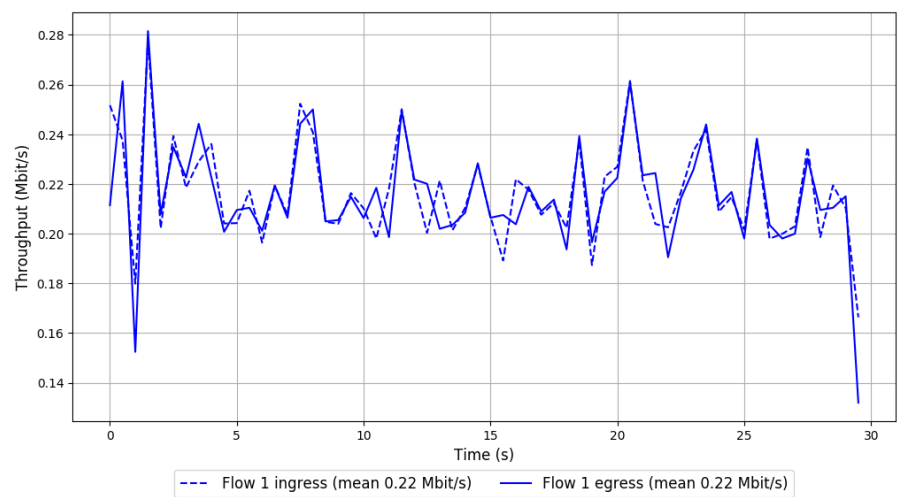


```
Run 1: Statistics of SCReAM

Start at: 2017-12-11 17:19:05
End at: 2017-12-11 17:19:35

# Below is generated by plot.py at 2017-12-11 21:22:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.543 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.543 ms
Loss rate: 0.51%
```

Run 1: Report of SReAM — Data Link

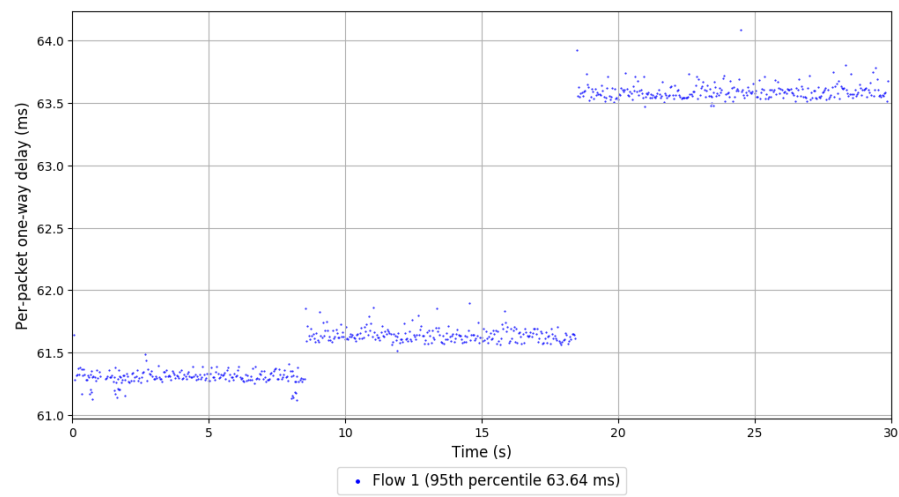
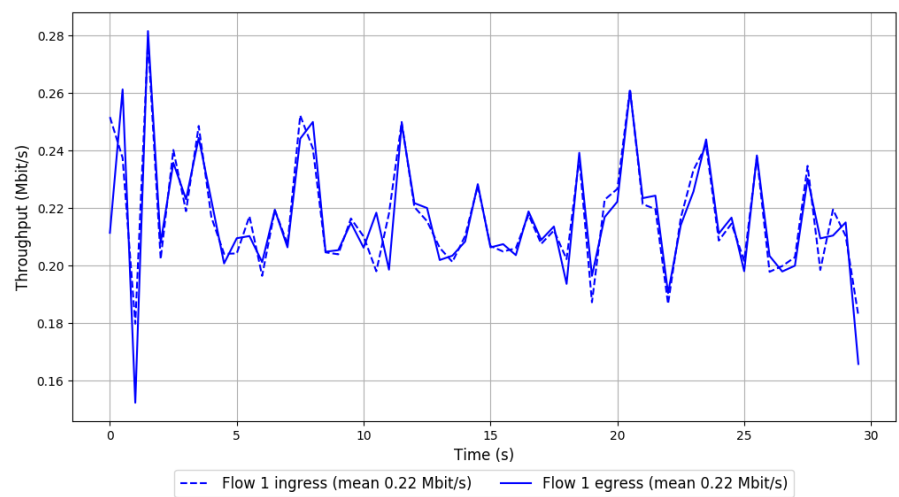


```
Run 2: Statistics of SCReAM

Start at: 2017-12-11 17:30:12
End at: 2017-12-11 17:30:42

# Below is generated by plot.py at 2017-12-11 21:22:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.644 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.644 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-11 17:40:59

End at: 2017-12-11 17:41:29

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.594 ms

Loss rate: 0.38%

-- Flow 1:

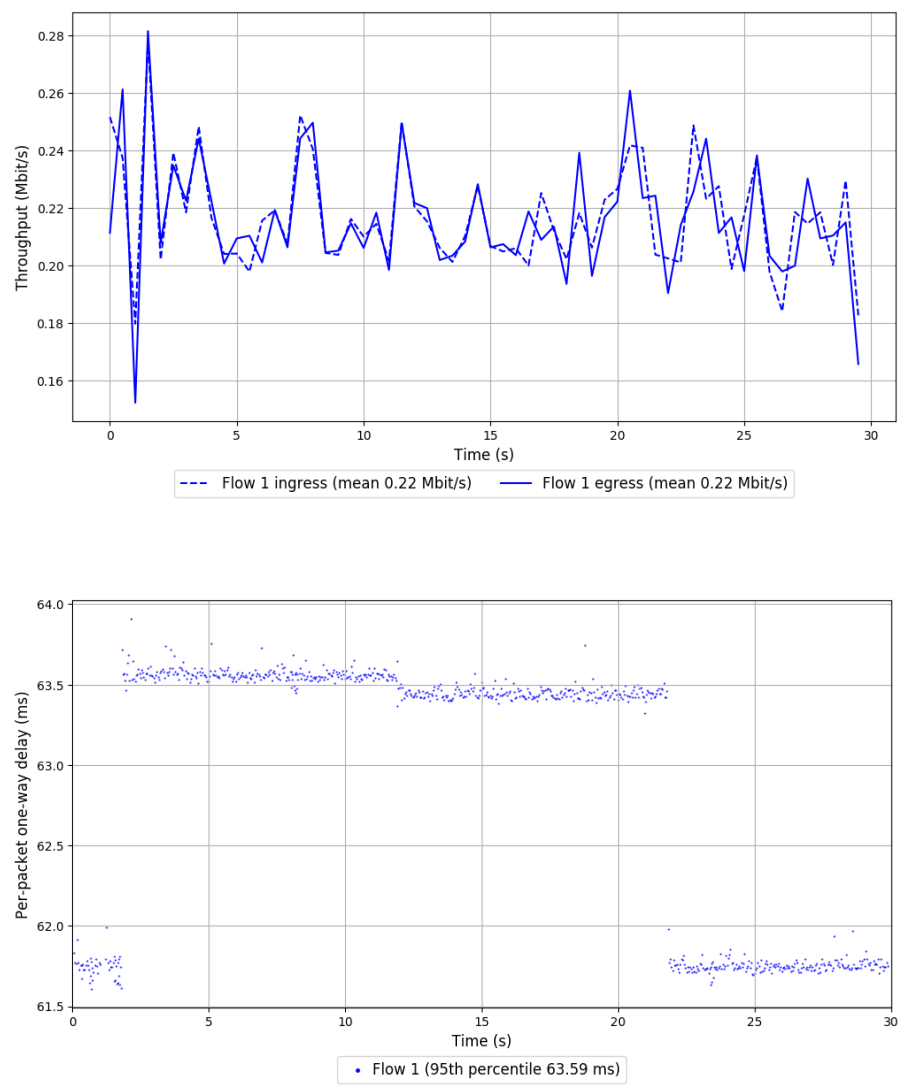
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.594 ms

Loss rate: 0.38%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-11 17:51:33

End at: 2017-12-11 17:52:03

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.652 ms

Loss rate: 0.38%

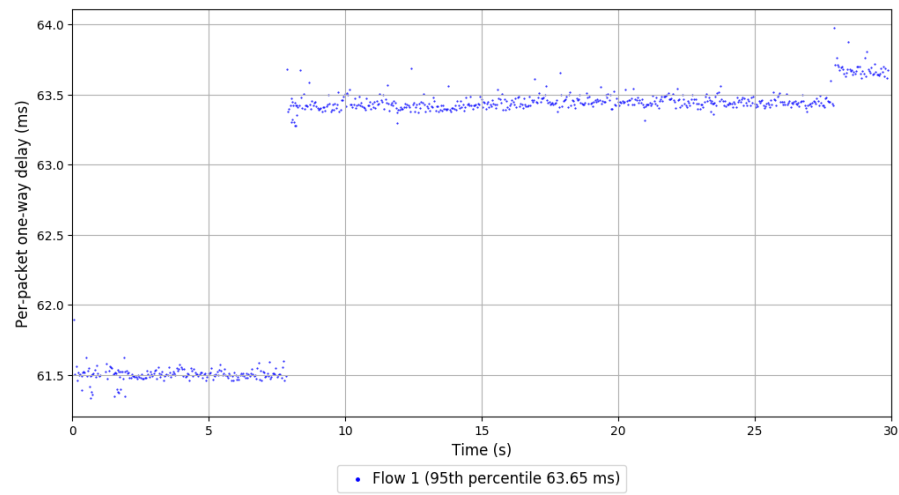
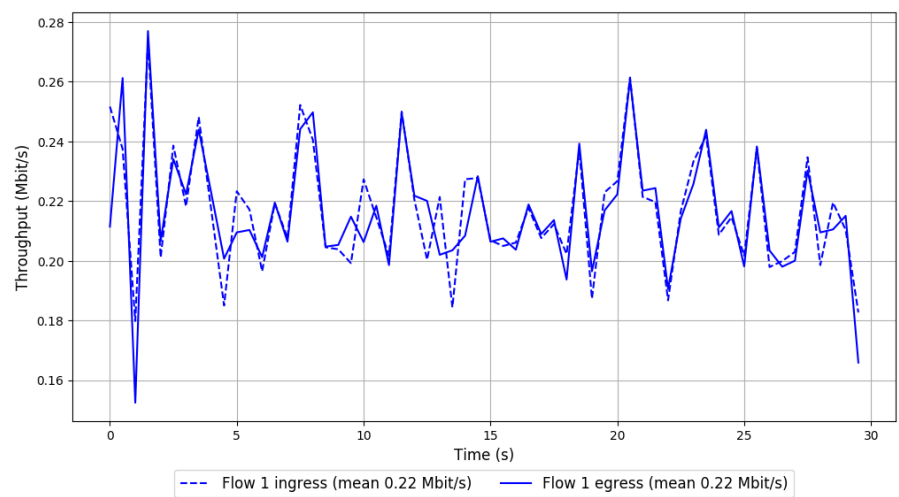
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.652 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-11 18:02:18

End at: 2017-12-11 18:02:48

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.38%

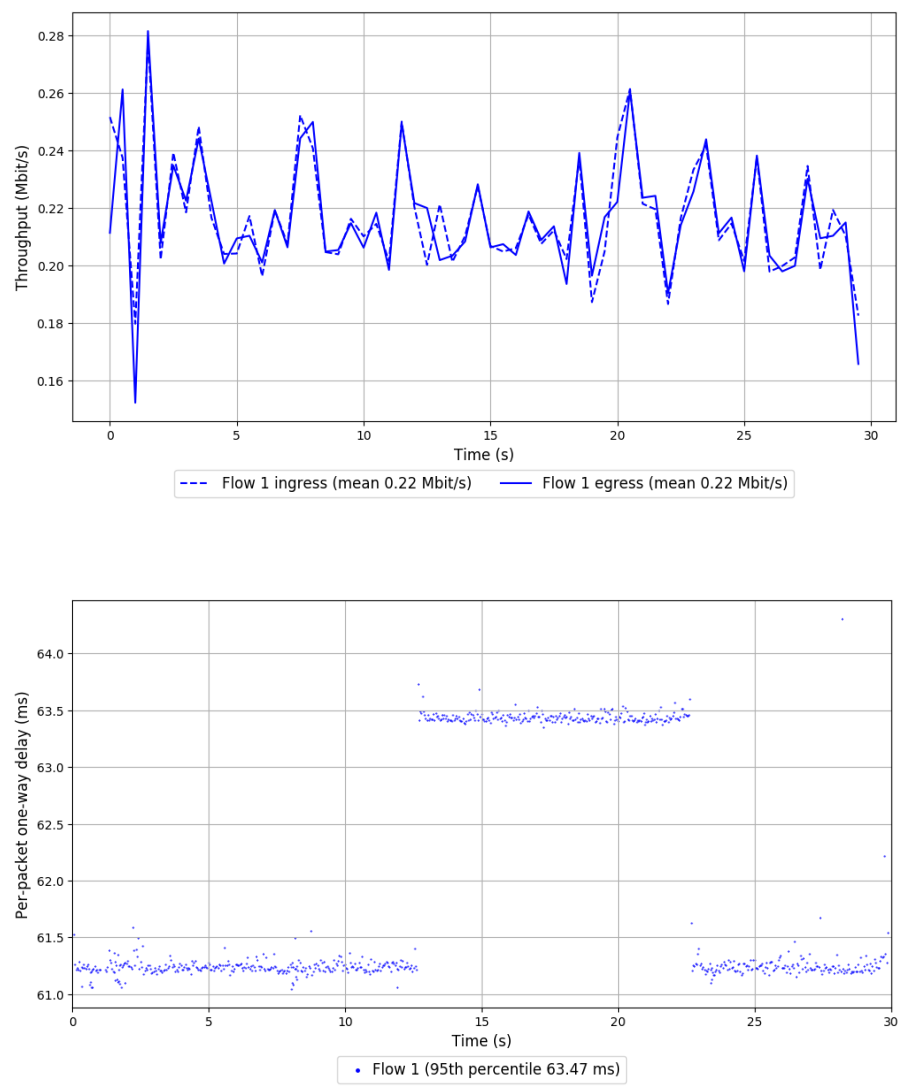
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.474 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-11 18:12:54

End at: 2017-12-11 18:13:24

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.664 ms

Loss rate: 0.38%

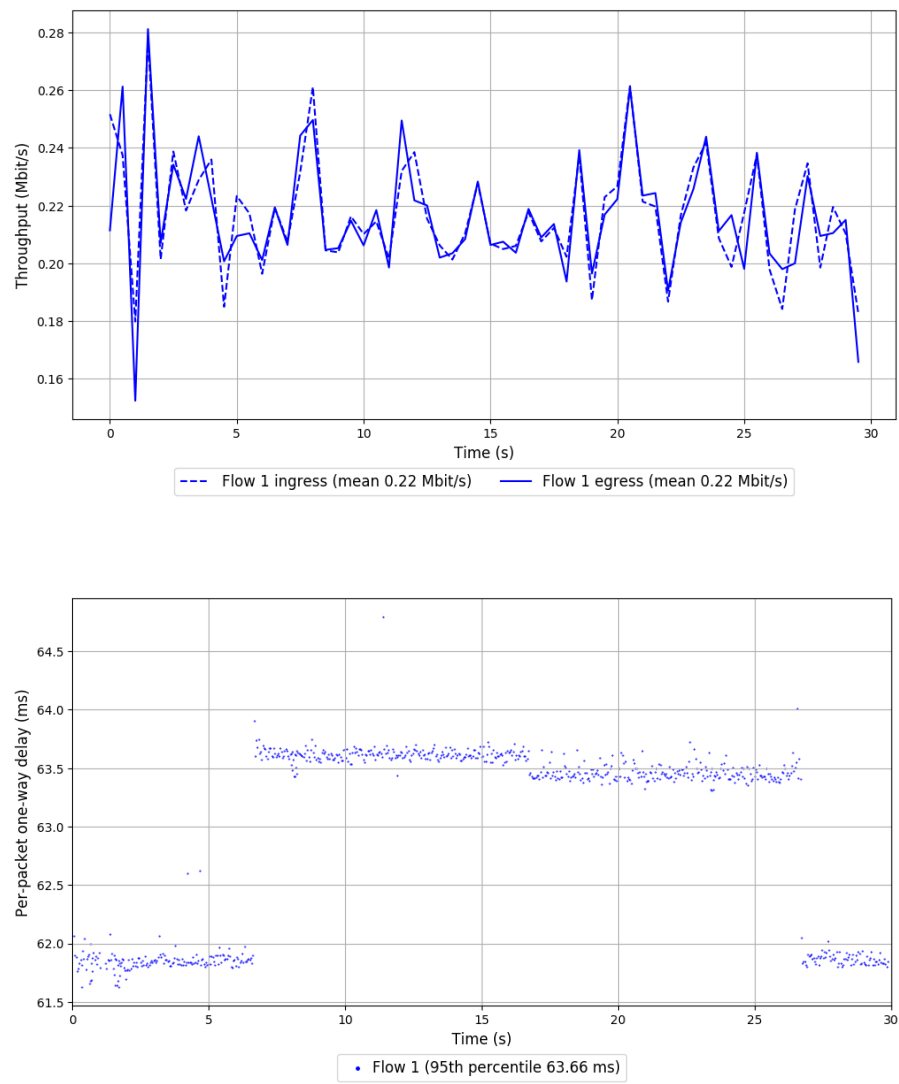
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.664 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-12-11 18:23:36

End at: 2017-12-11 18:24:06

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 1.49%

-- Flow 1:

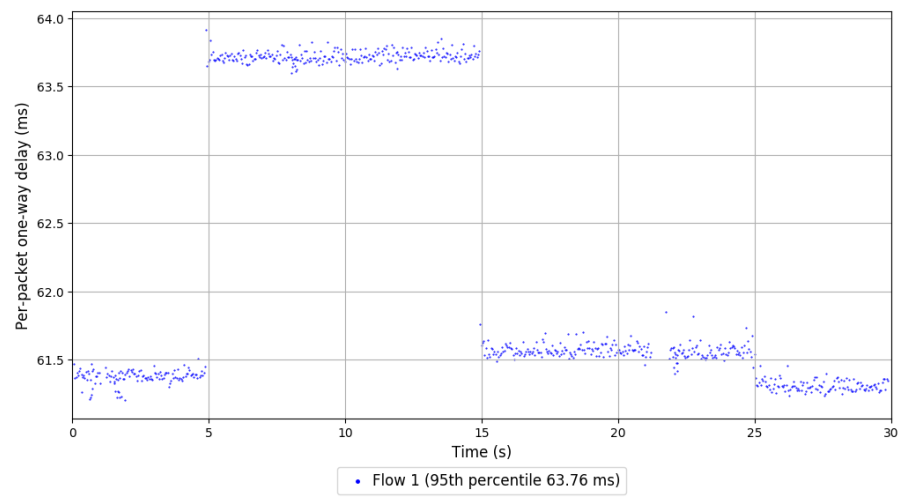
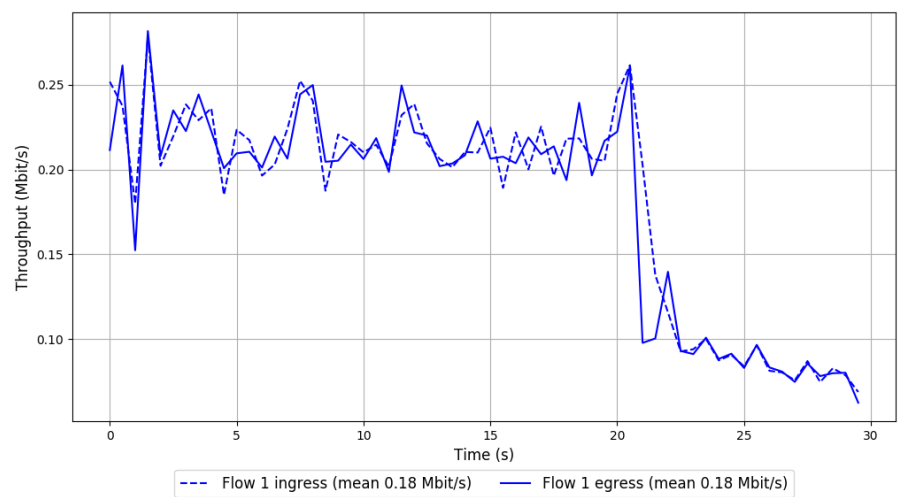
Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 1.49%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-11 18:34:14

End at: 2017-12-11 18:34:44

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.862 ms

Loss rate: 0.38%

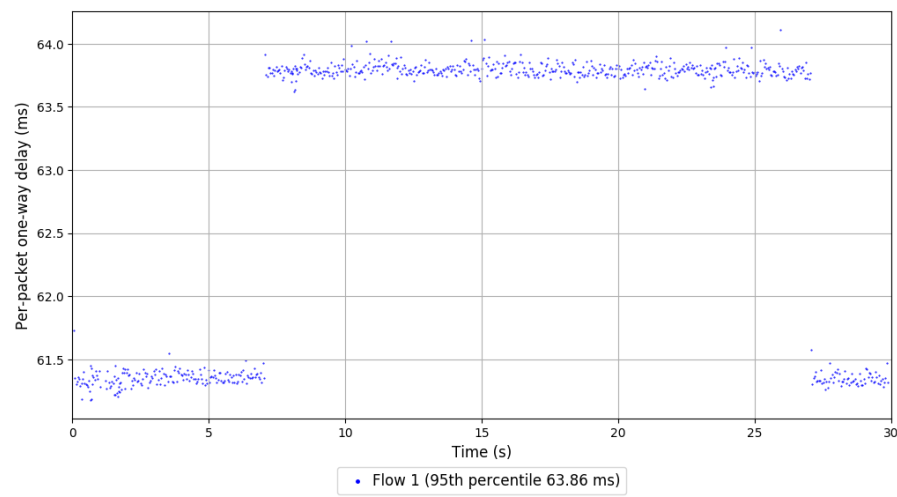
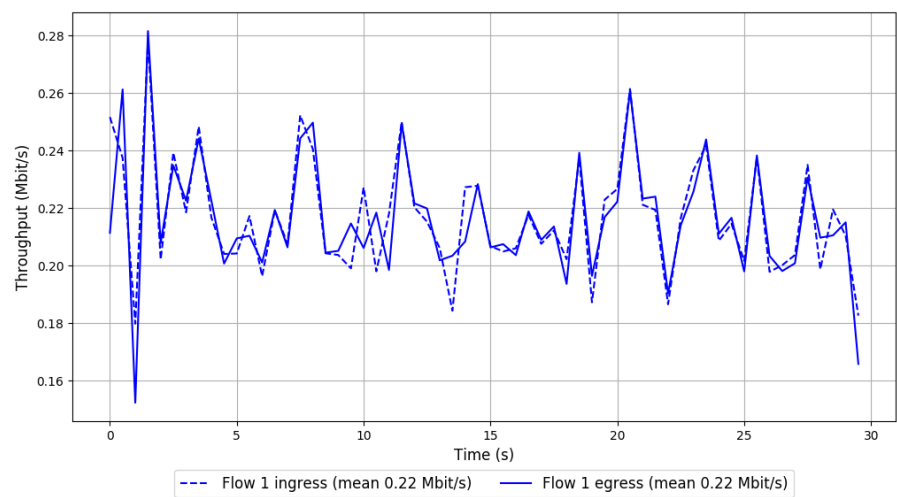
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.862 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-11 18:44:55

End at: 2017-12-11 18:45:25

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.38%

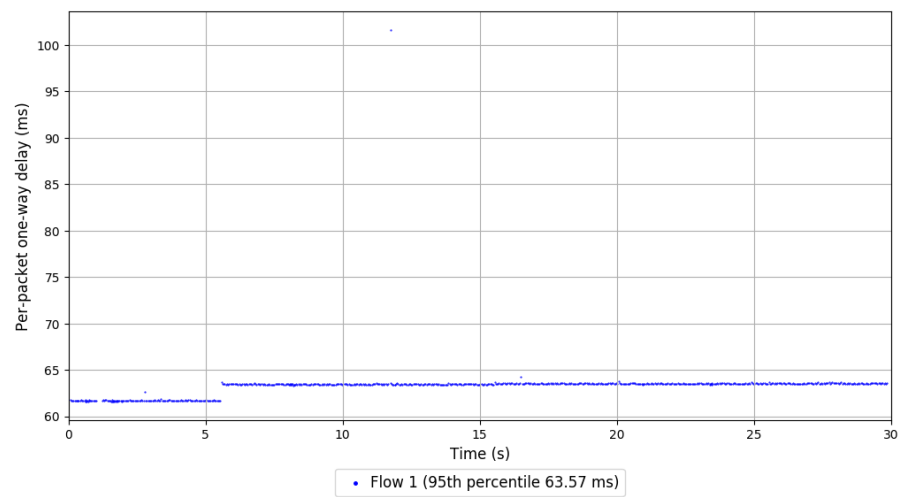
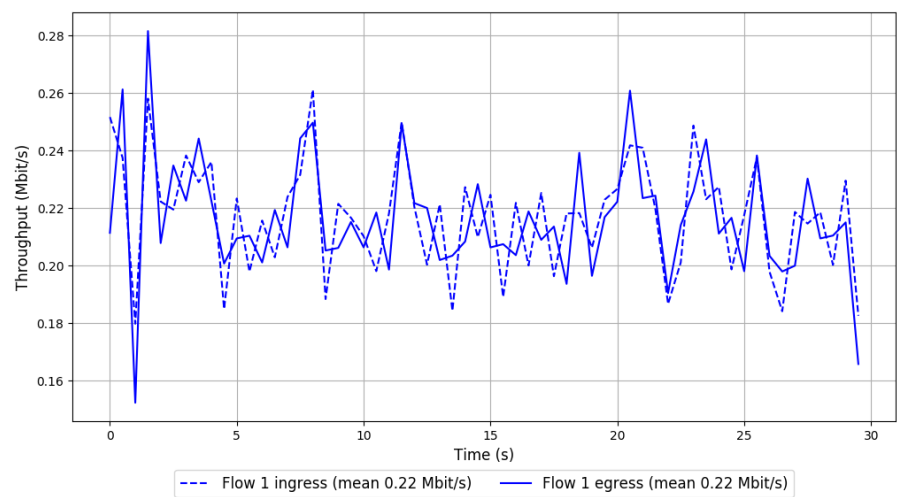
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.574 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-11 18:55:31

End at: 2017-12-11 18:56:01

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.614 ms

Loss rate: 0.38%

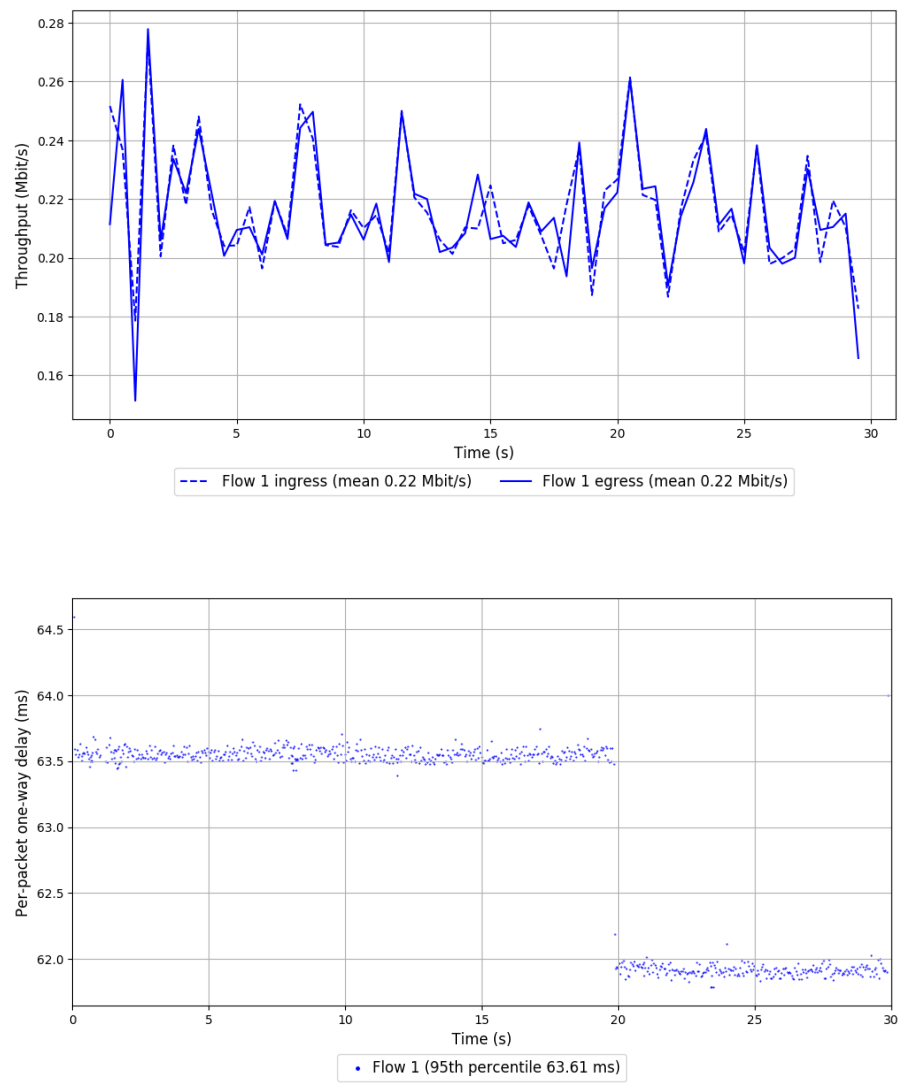
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.614 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link



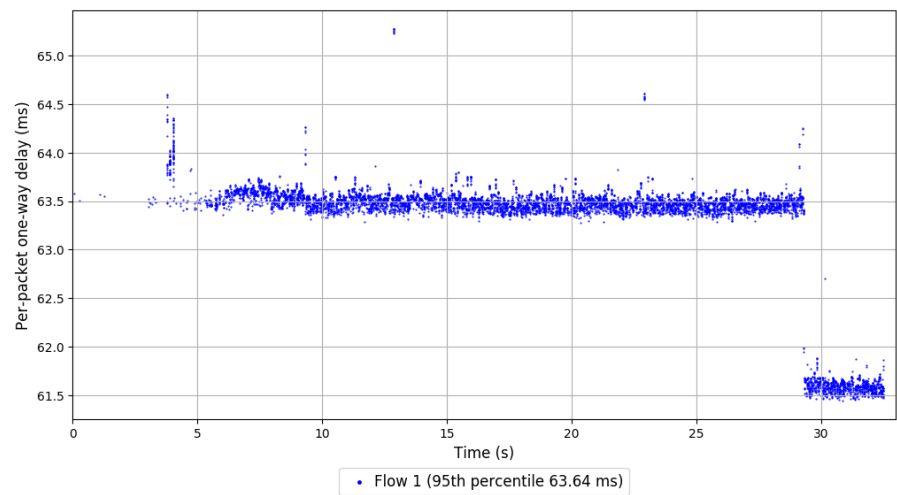
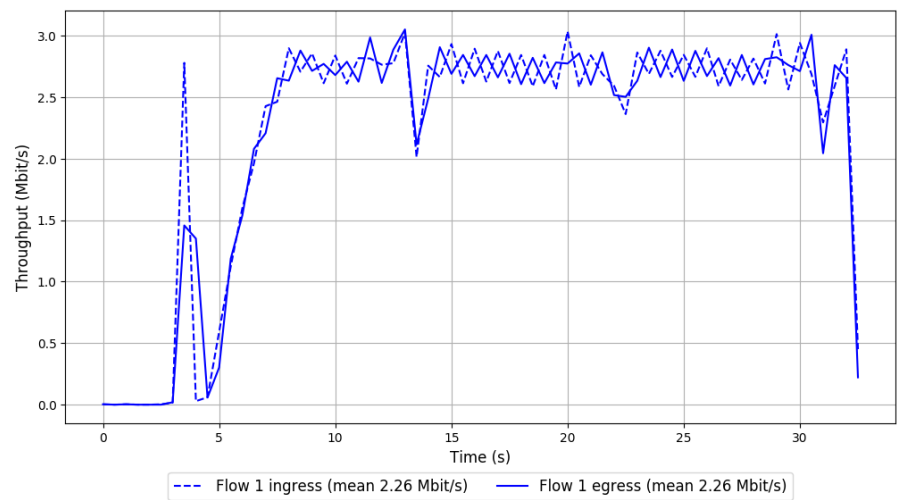
```
Run 1: Statistics of WebRTC media

Start at: 2017-12-11 17:29:34
End at: 2017-12-11 17:30:04

# Below is generated by plot.py at 2017-12-11 21:22:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 63.636 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 63.636 ms
Loss rate: 0.46%
```



Run 1: Report of WebRTC media — Data Link

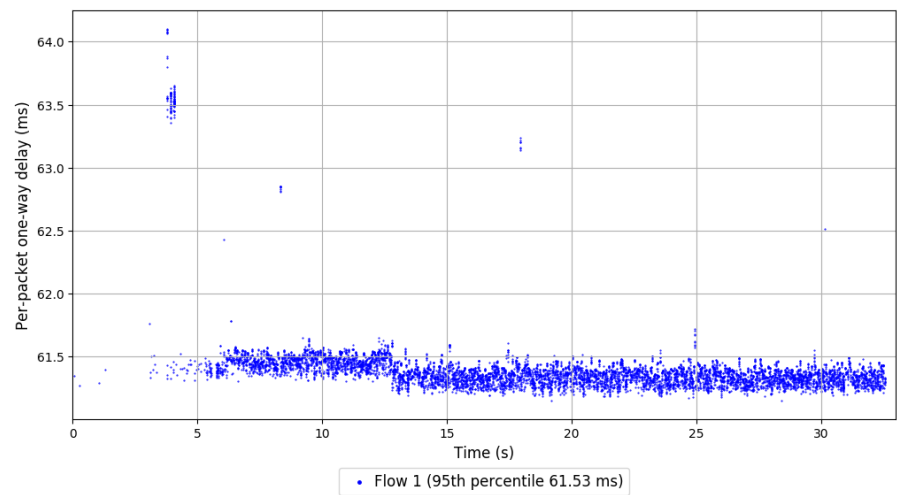
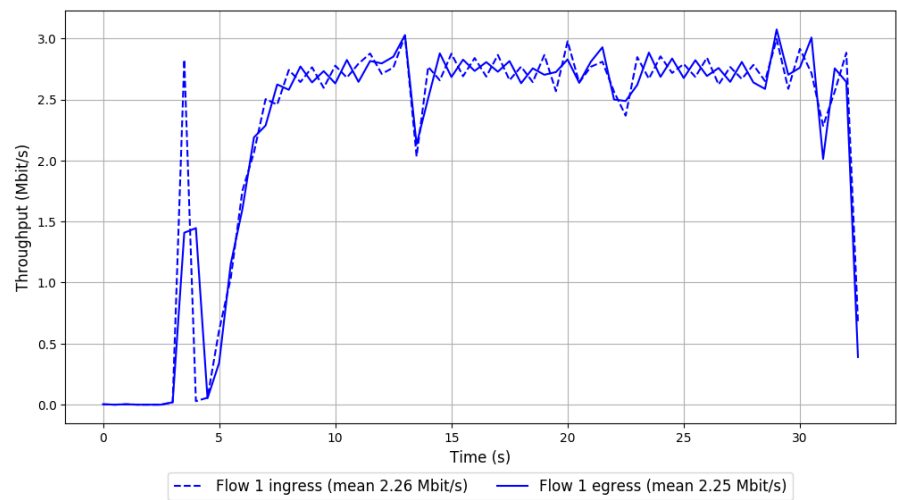


```
Run 2: Statistics of WebRTC media

Start at: 2017-12-11 17:40:21
End at: 2017-12-11 17:40:51

# Below is generated by plot.py at 2017-12-11 21:22:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 61.532 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 61.532 ms
Loss rate: 0.50%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-11 17:50:55

End at: 2017-12-11 17:51:25

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 63.790 ms

Loss rate: 0.47%

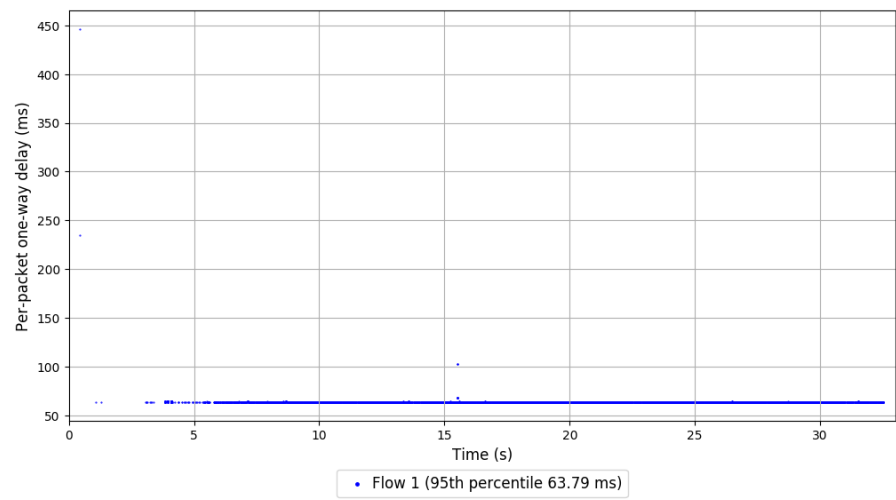
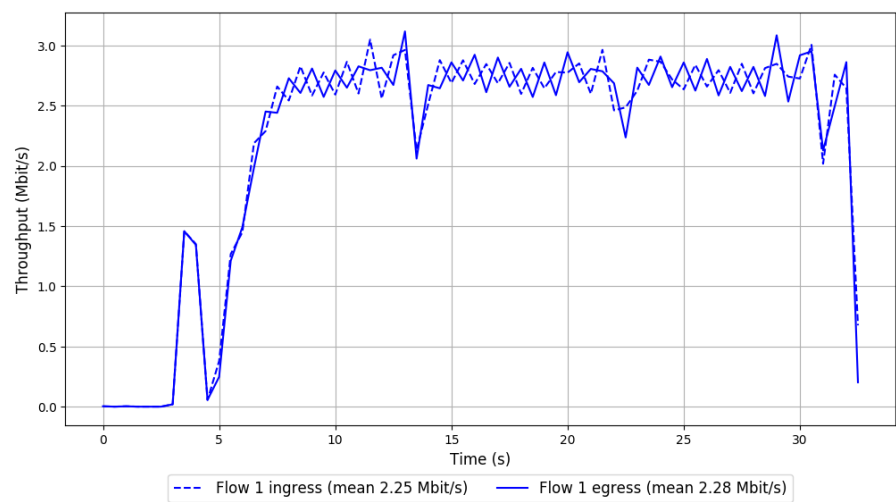
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 63.790 ms

Loss rate: 0.47%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-11 18:01:40

End at: 2017-12-11 18:02:10

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.50%

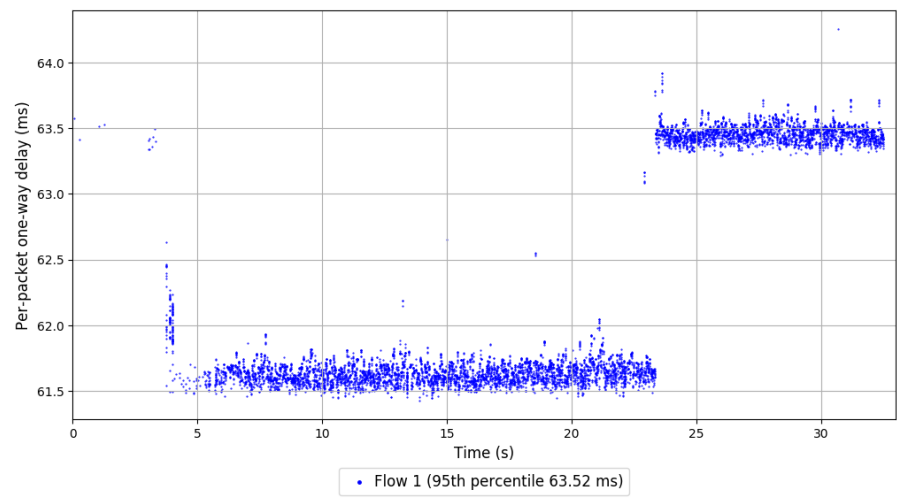
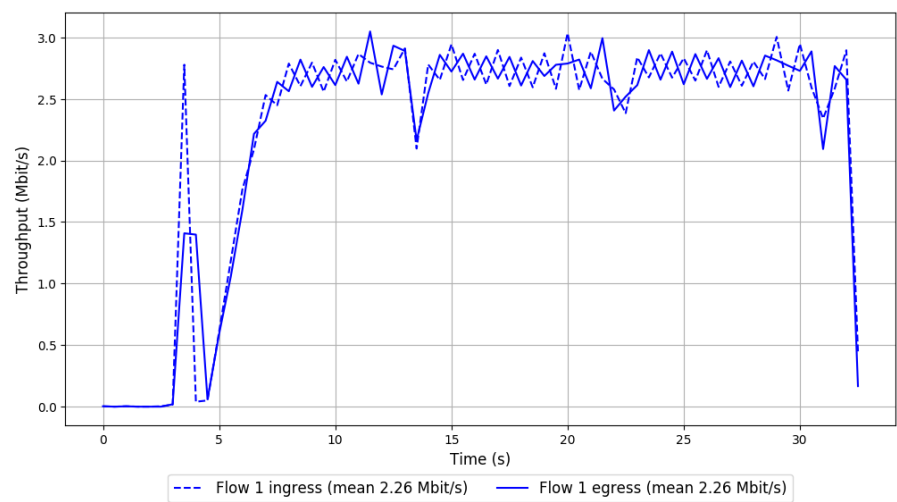
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.50%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-11 18:12:16

End at: 2017-12-11 18:12:46

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.47%

-- Flow 1:

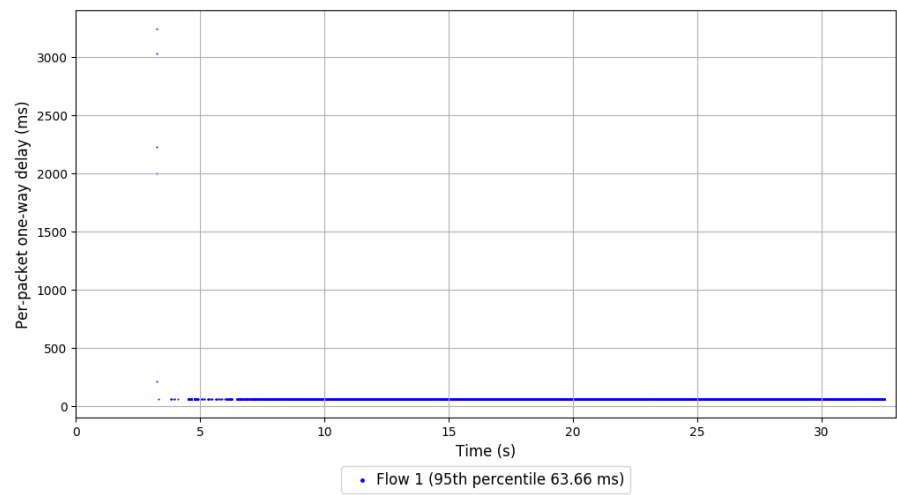
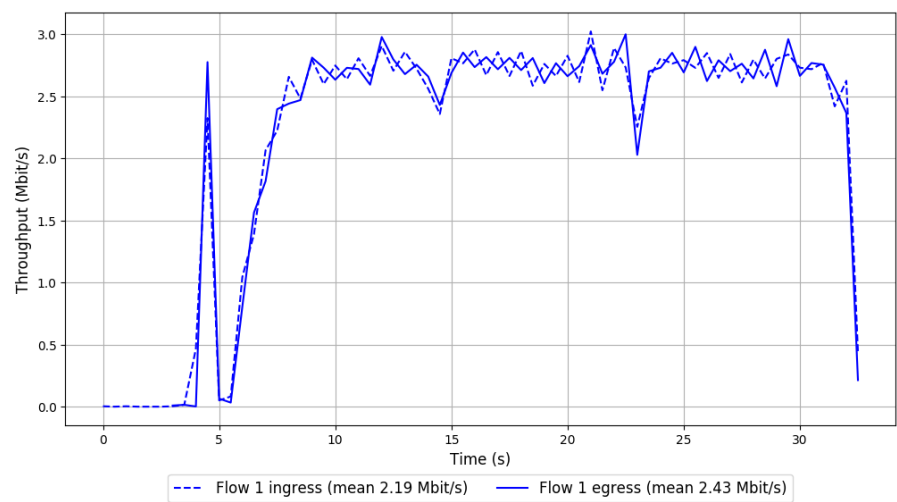
Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.47%



Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-11 18:22:58

End at: 2017-12-11 18:23:28

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.639 ms

Loss rate: 0.55%

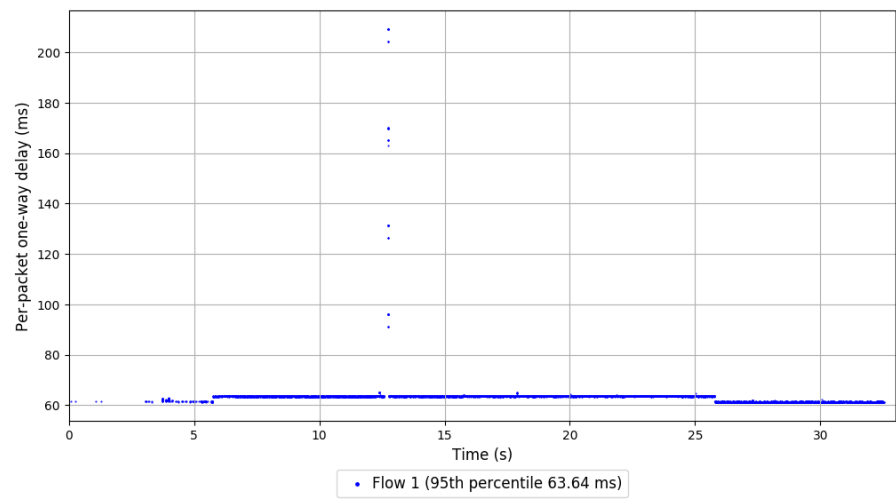
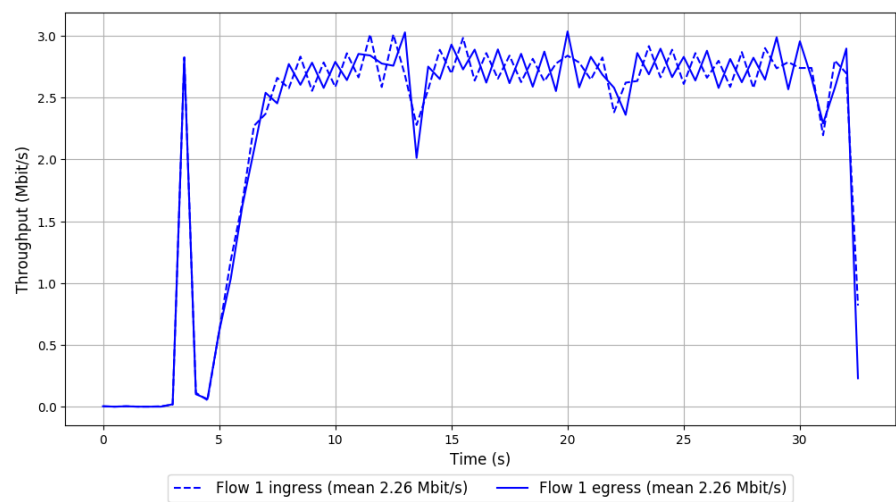
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.639 ms

Loss rate: 0.55%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-11 18:33:36

End at: 2017-12-11 18:34:06

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.679 ms

Loss rate: 0.47%

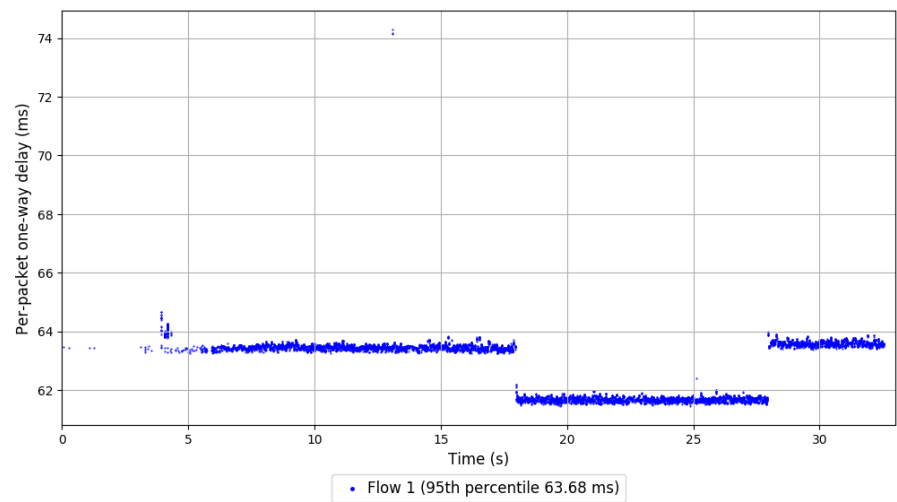
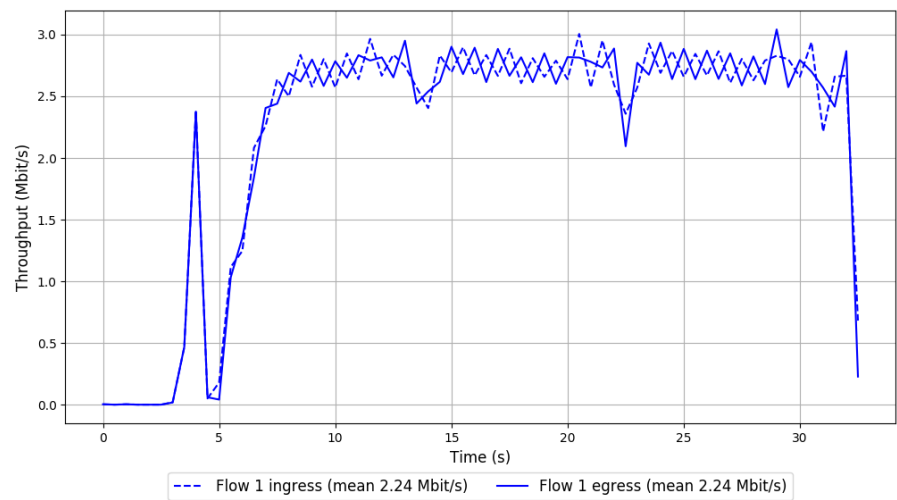
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.679 ms

Loss rate: 0.47%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-11 18:44:17

End at: 2017-12-11 18:44:47

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 0.46%

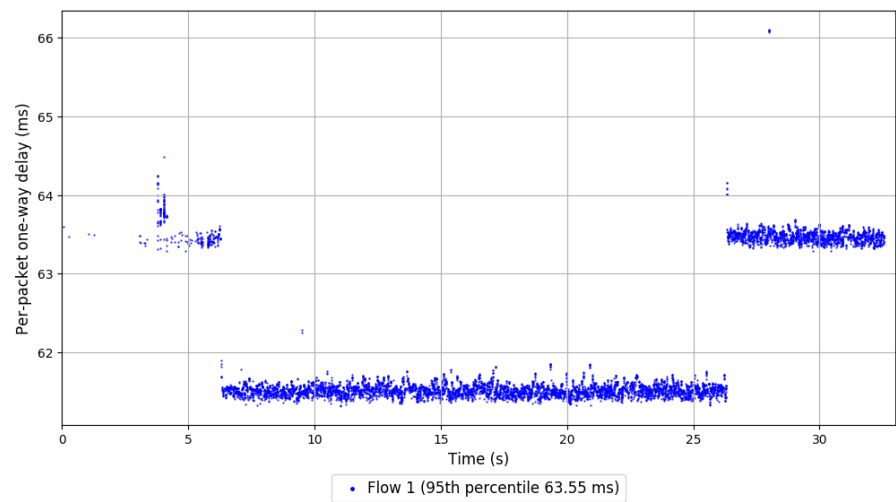
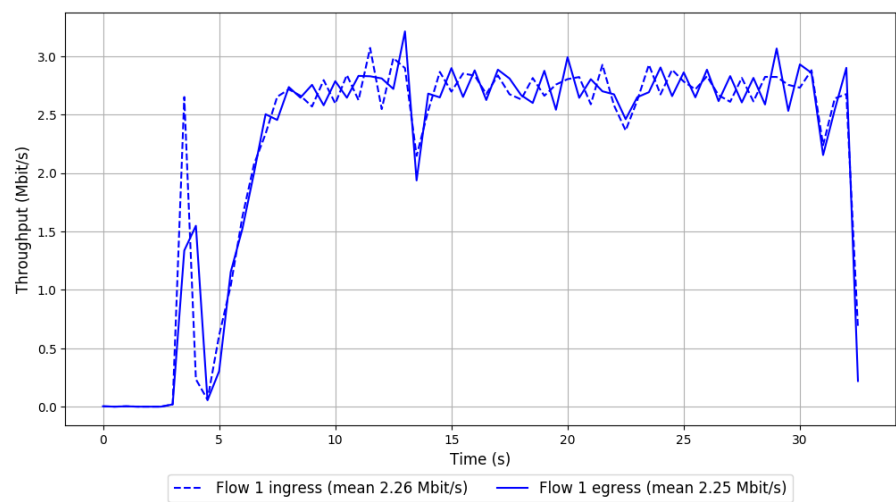
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 0.46%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-11 18:54:53

End at: 2017-12-11 18:55:23

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.911 ms

Loss rate: 0.46%

-- Flow 1:

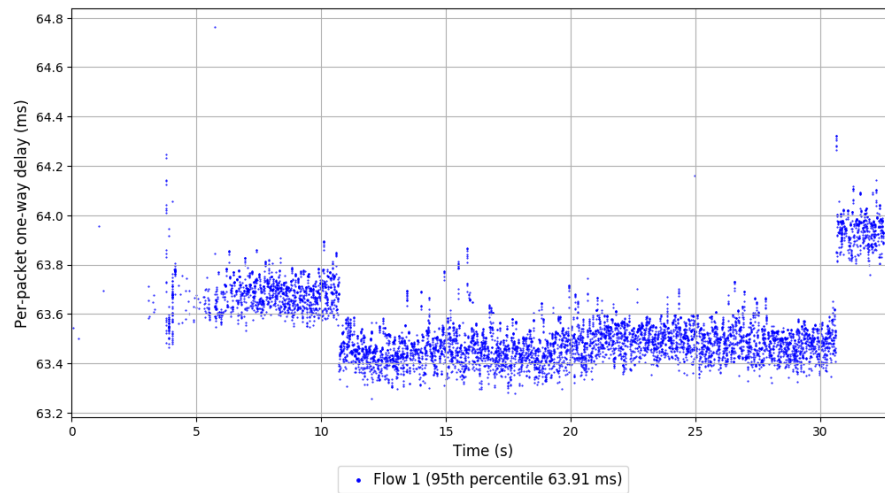
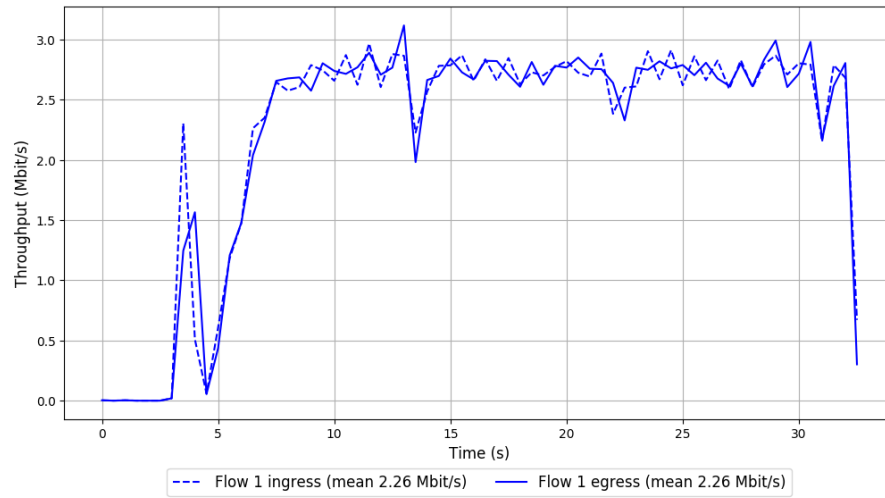
Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.911 ms

Loss rate: 0.46%



### Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-11 19:05:26

End at: 2017-12-11 19:05:56

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 63.685 ms

Loss rate: 0.40%

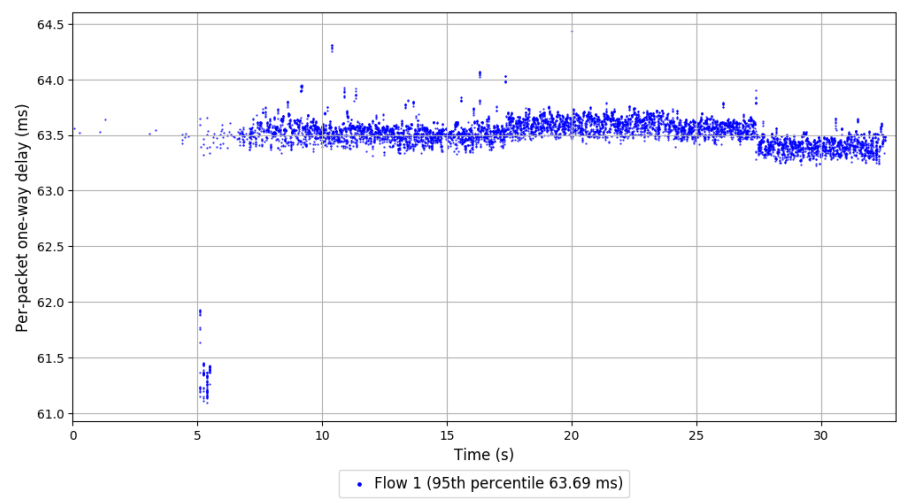
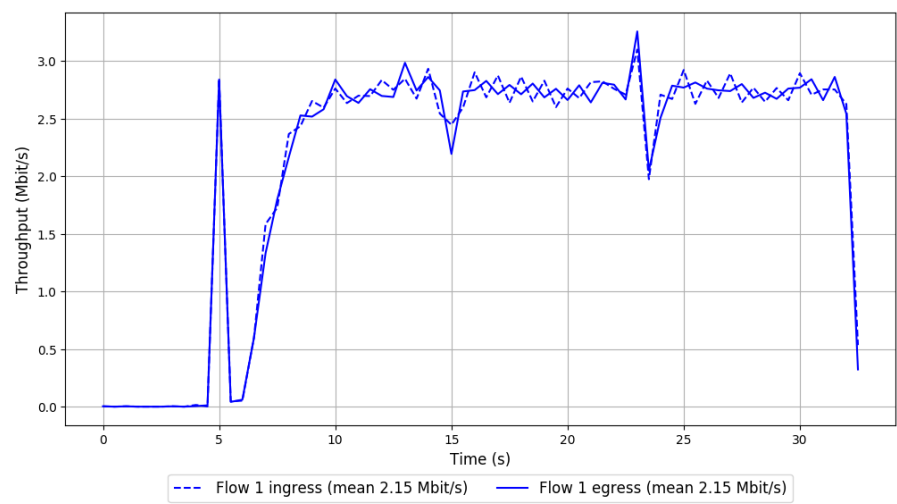
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 63.685 ms

Loss rate: 0.40%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-11 17:21:39

End at: 2017-12-11 17:22:09

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 63.734 ms

Loss rate: 0.24%

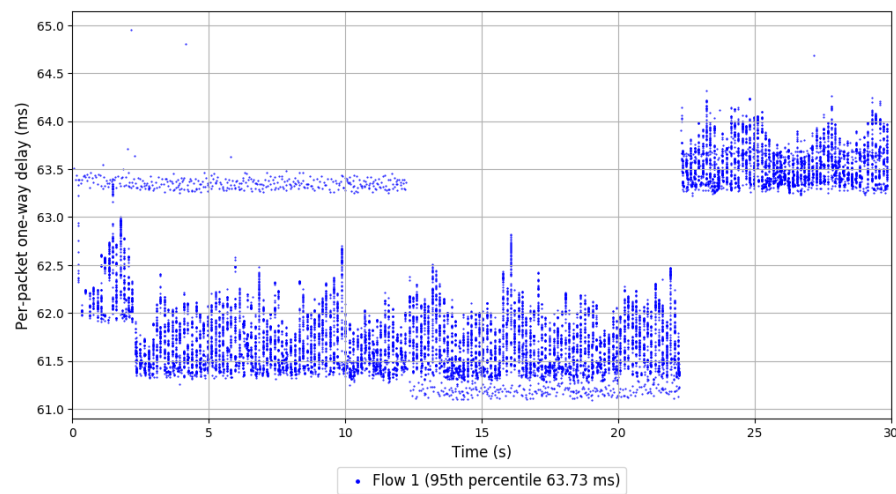
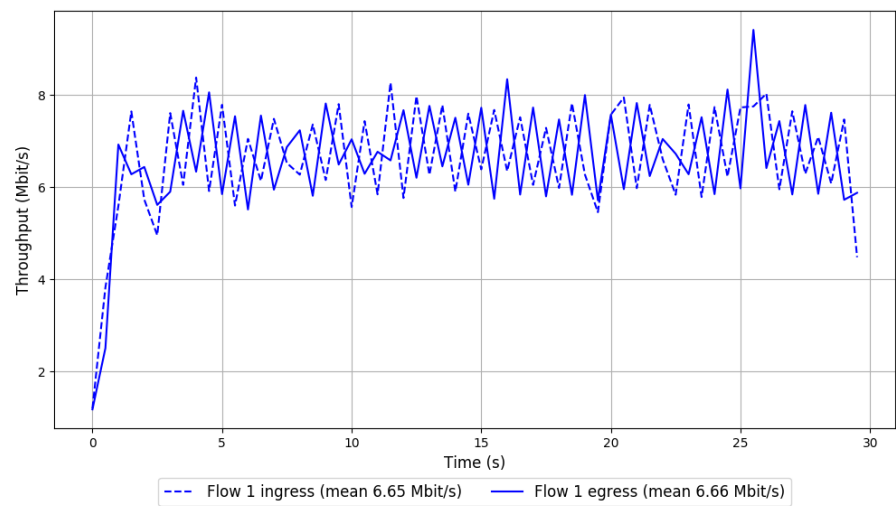
-- Flow 1:

Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 63.734 ms

Loss rate: 0.24%

Run 1: Report of Sprout — Data Link

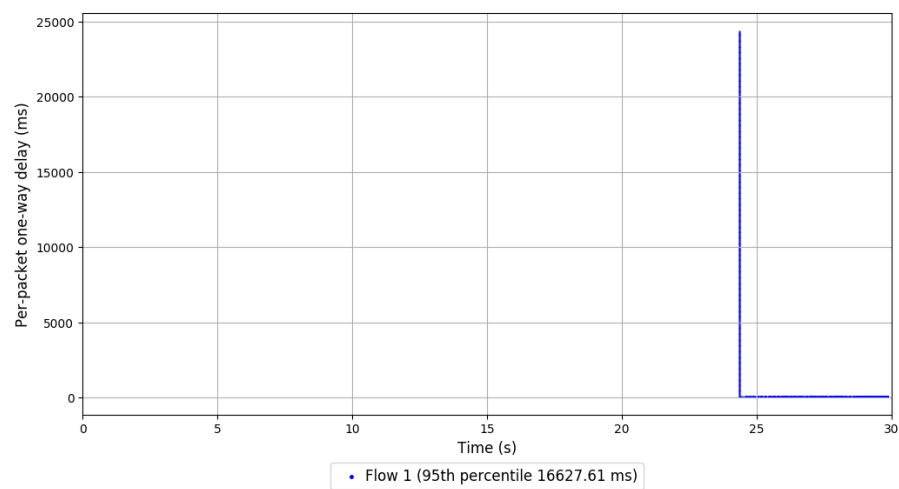
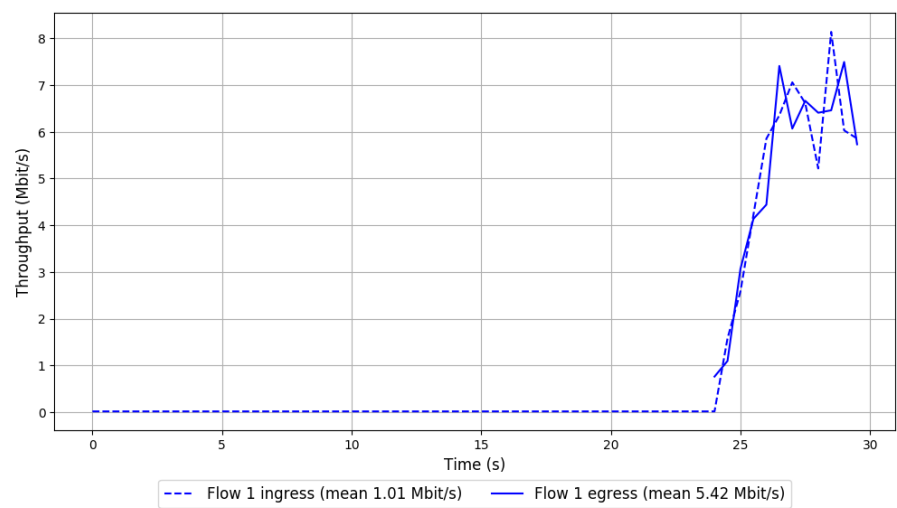


Run 2: Statistics of Sprout

Start at: 2017-12-11 17:32:49

End at: 2017-12-11 17:33:19

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-11 17:43:30

End at: 2017-12-11 17:44:00

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.446 ms

Loss rate: 0.13%

-- Flow 1:

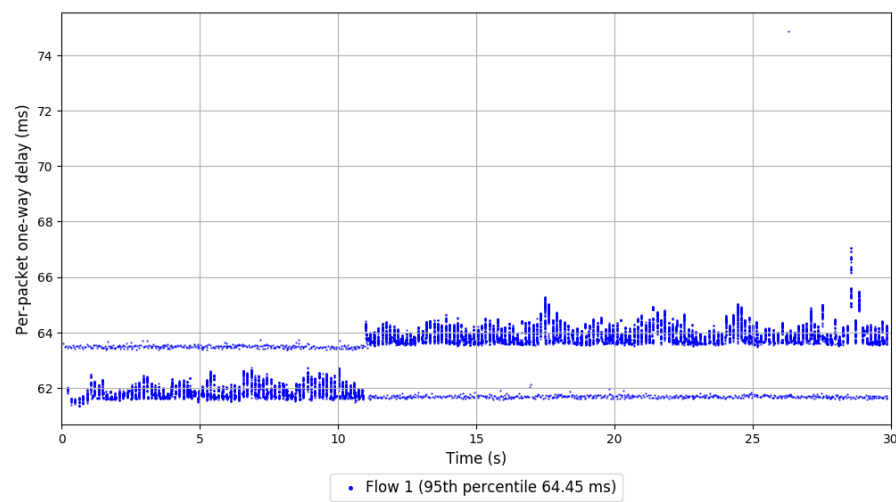
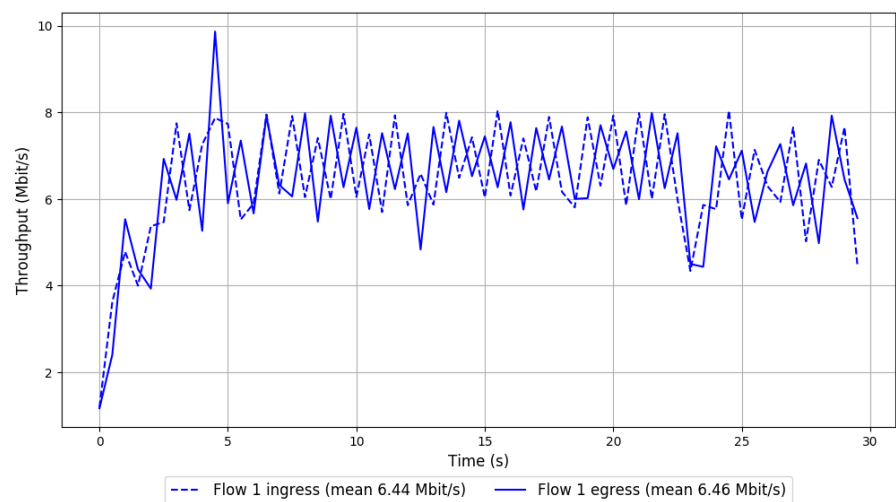
Average throughput: 6.46 Mbit/s

95th percentile per-packet one-way delay: 64.446 ms

Loss rate: 0.13%



Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-11 17:54:04

End at: 2017-12-11 17:54:34

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

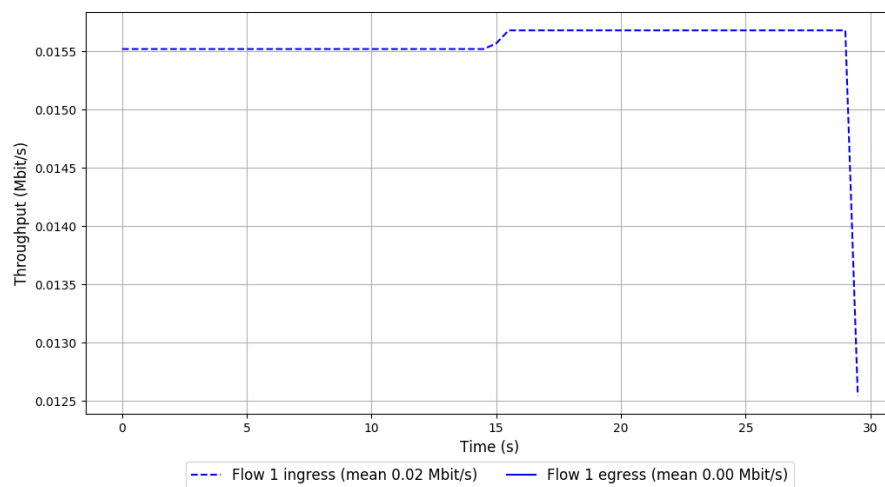


Figure is missing

Run 5: Statistics of Sprout

Start at: 2017-12-11 18:04:50

End at: 2017-12-11 18:05:20

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.139 ms

Loss rate: 0.65%

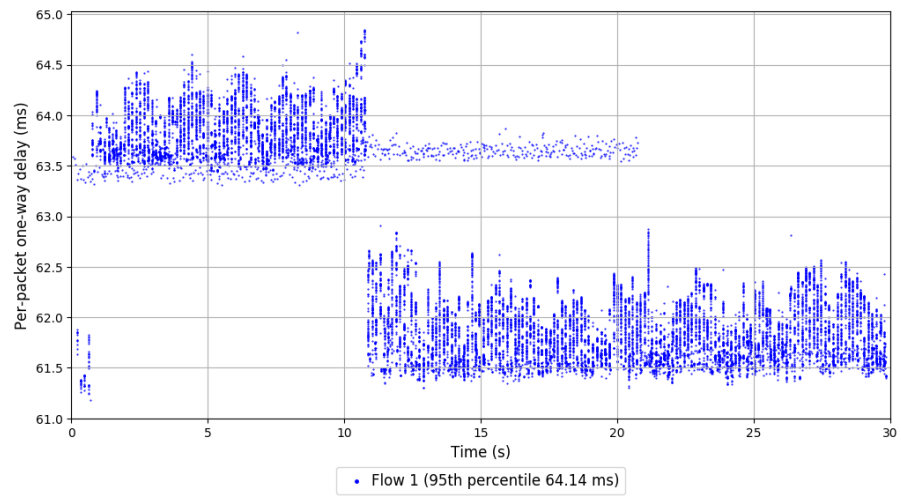
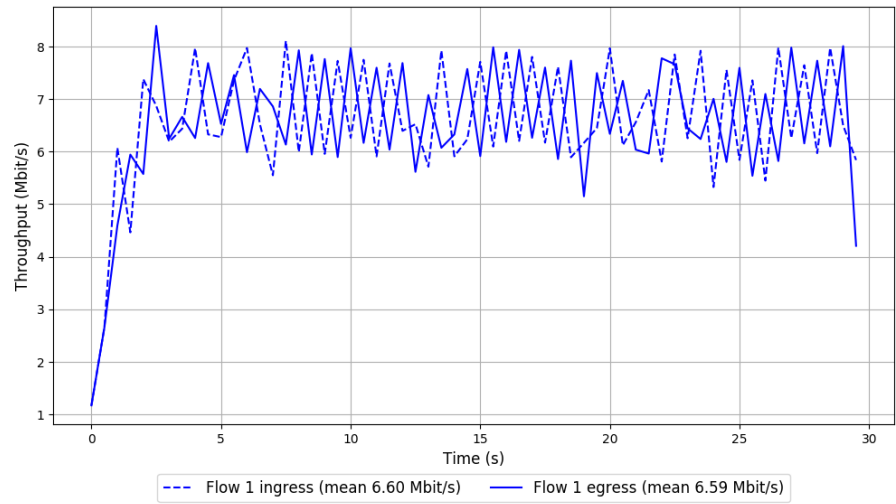
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.139 ms

Loss rate: 0.65%

## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-11 18:15:26

End at: 2017-12-11 18:15:56

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.514 ms

Loss rate: 0.66%

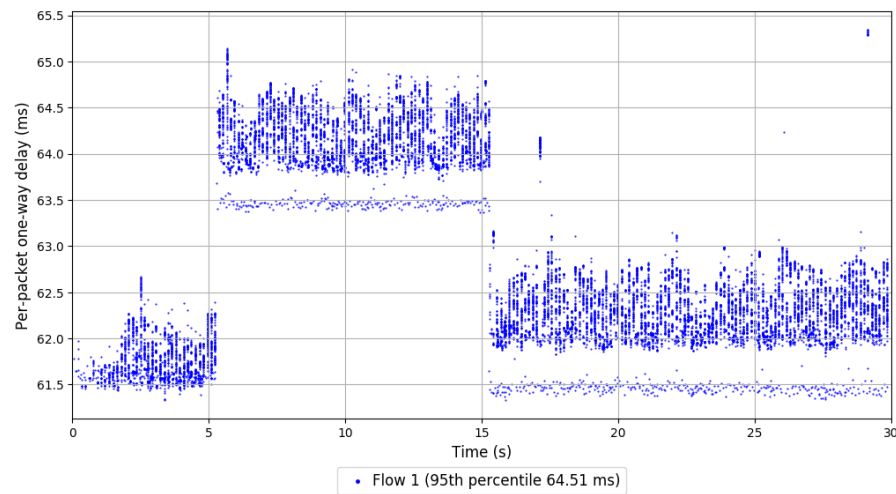
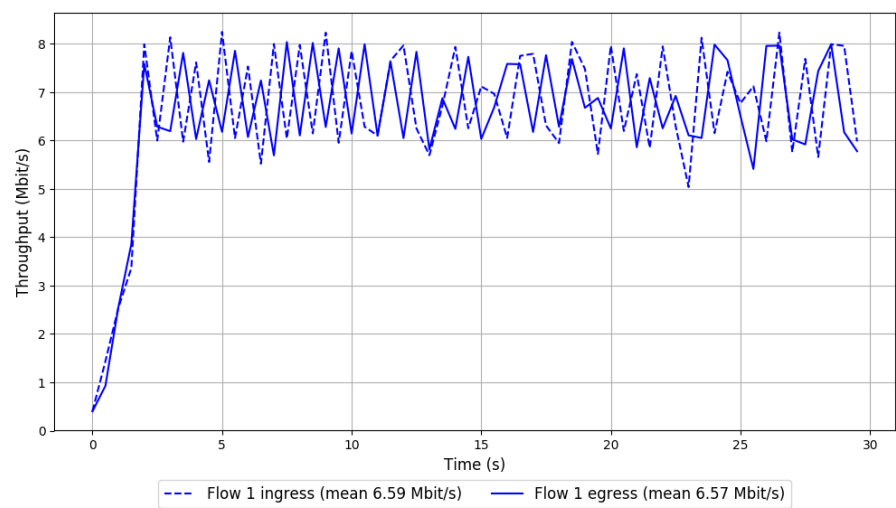
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.514 ms

Loss rate: 0.66%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-11 18:26:08

End at: 2017-12-11 18:26:38

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 64.251 ms

Loss rate: 0.46%

-- Flow 1:

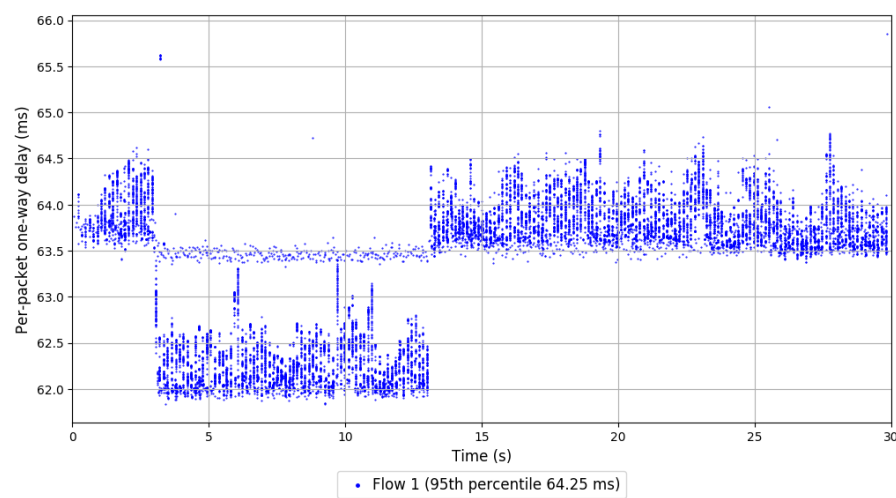
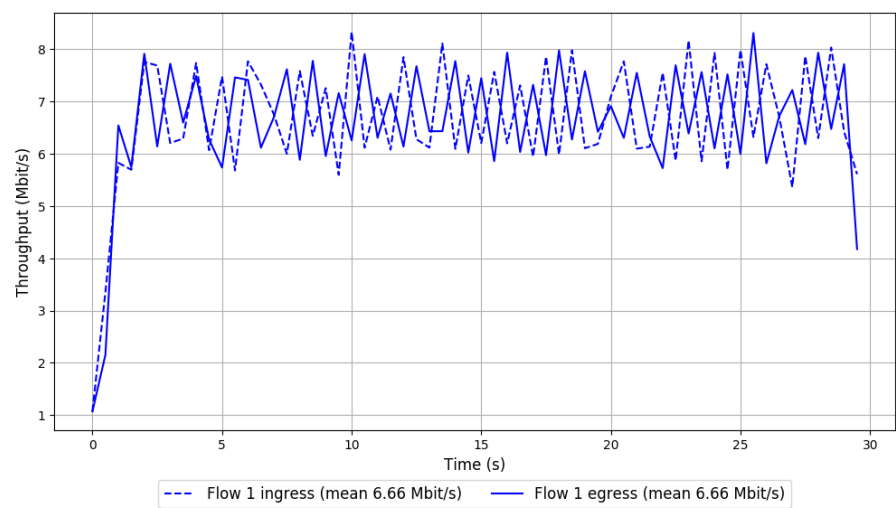
Average throughput: 6.66 Mbit/s

95th percentile per-packet one-way delay: 64.251 ms

Loss rate: 0.46%



Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-11 18:36:47

End at: 2017-12-11 18:37:17

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.214 ms

Loss rate: 0.49%

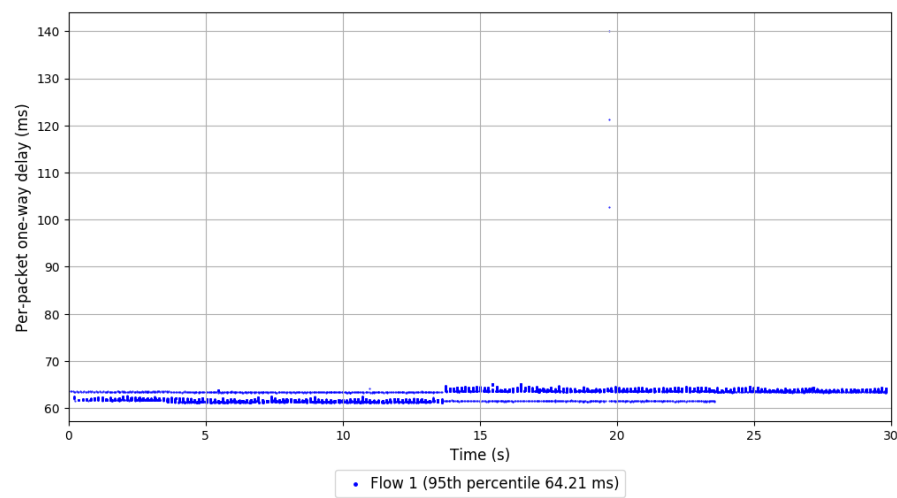
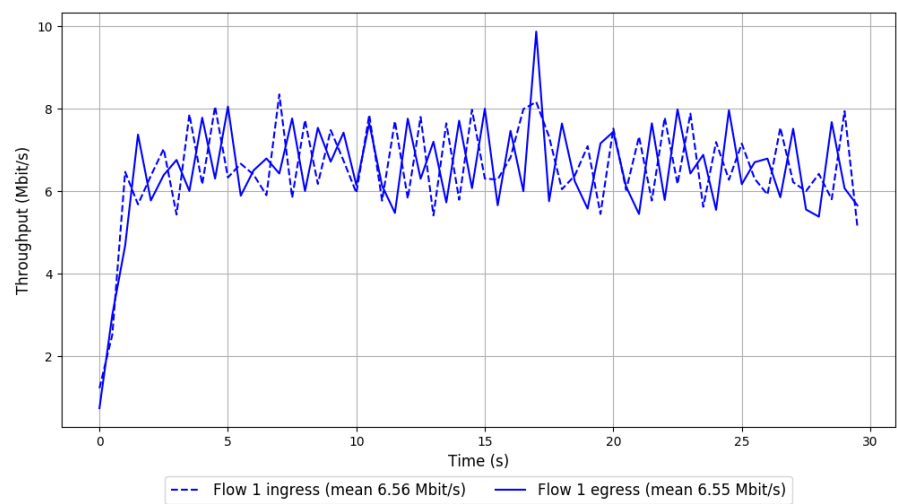
-- Flow 1:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.214 ms

Loss rate: 0.49%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-11 18:47:28

End at: 2017-12-11 18:47:58

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.263 ms

Loss rate: 0.56%

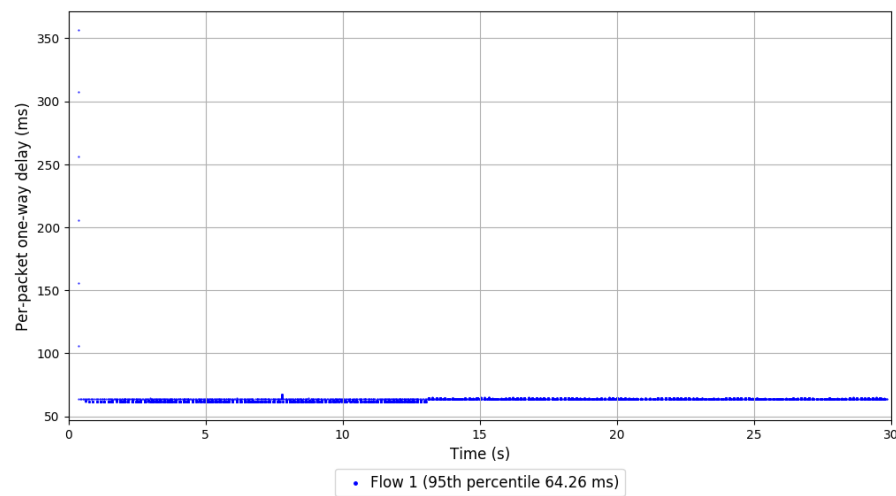
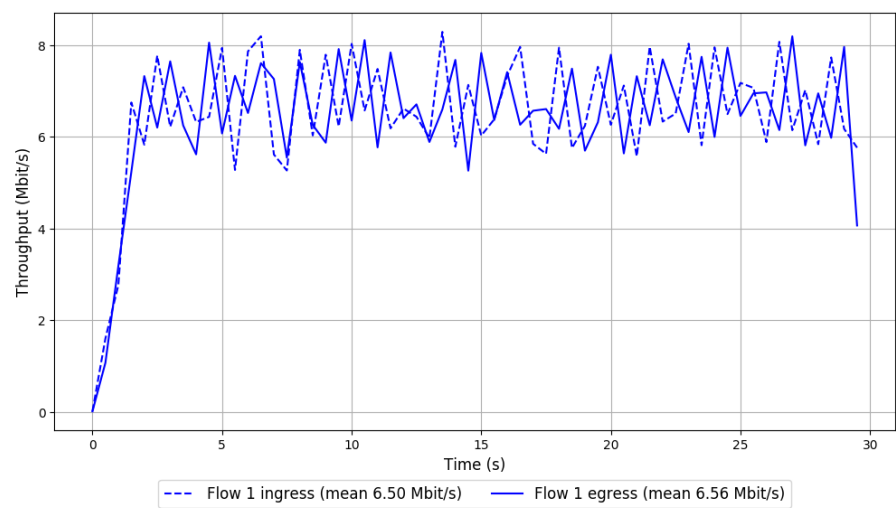
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.263 ms

Loss rate: 0.56%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-11 18:57:59

End at: 2017-12-11 18:58:29

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.331 ms

Loss rate: 0.74%

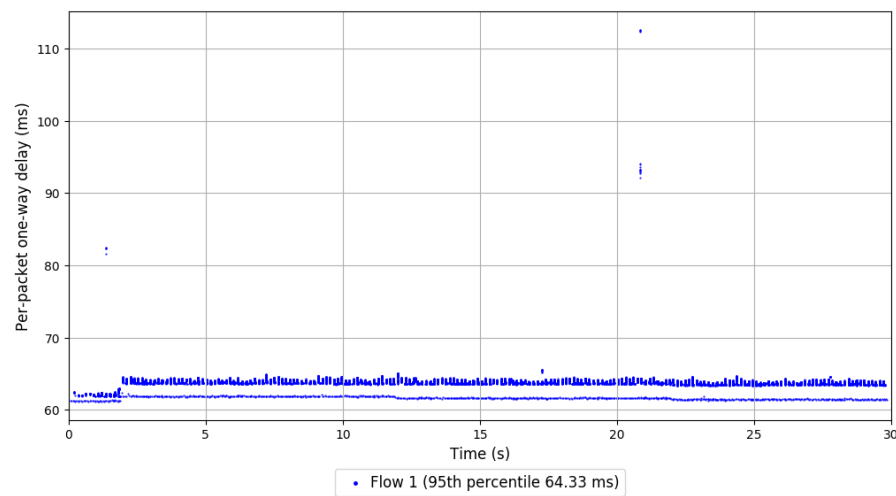
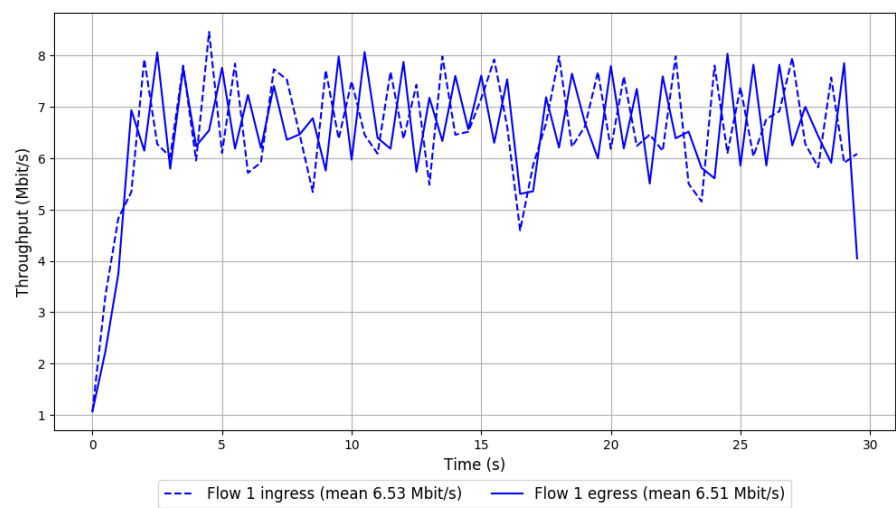
-- Flow 1:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.331 ms

Loss rate: 0.74%

Run 10: Report of Sprout — Data Link



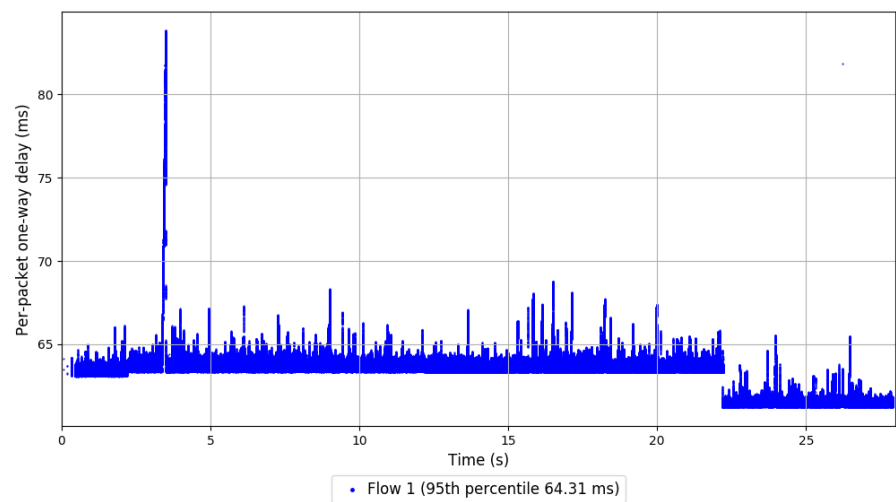
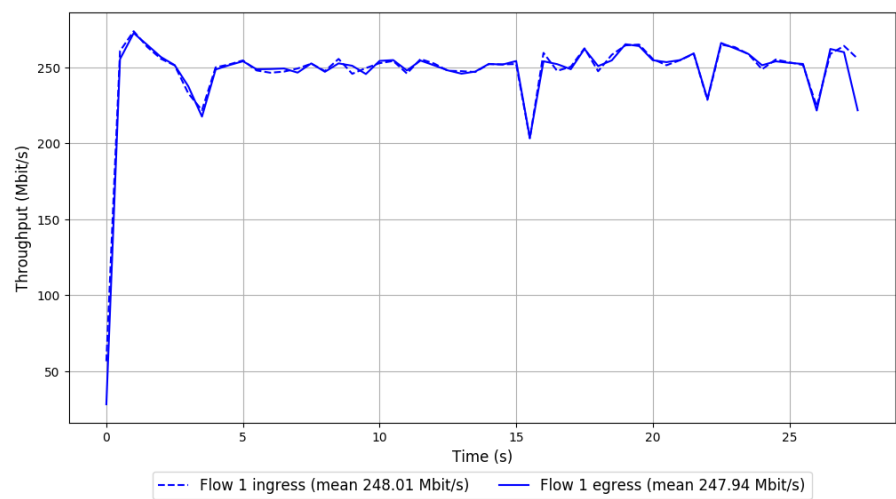
```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 17:22:17
End at: 2017-12-11 17:22:47

# Below is generated by plot.py at 2017-12-11 21:22:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.94 Mbit/s
95th percentile per-packet one-way delay: 64.307 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 247.94 Mbit/s
95th percentile per-packet one-way delay: 64.307 ms
Loss rate: 0.49%
```



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

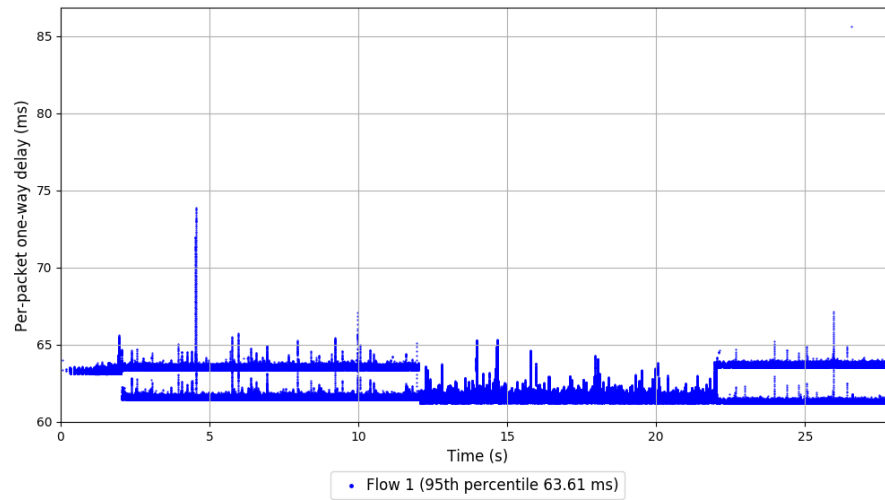
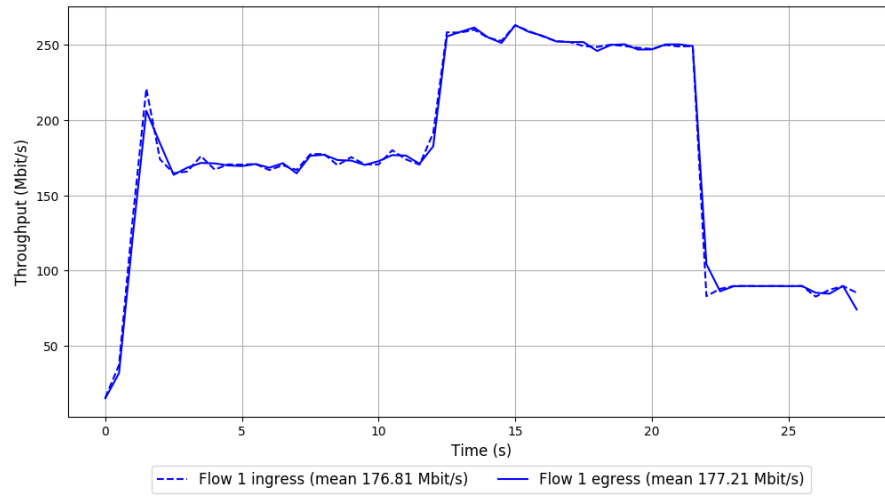


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 17:33:27
End at: 2017-12-11 17:33:57

# Below is generated by plot.py at 2017-12-11 21:22:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 177.21 Mbit/s
95th percentile per-packet one-way delay: 63.608 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 177.21 Mbit/s
95th percentile per-packet one-way delay: 63.608 ms
Loss rate: 0.22%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 17:44:08

End at: 2017-12-11 17:44:38

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 187.46 Mbit/s

95th percentile per-packet one-way delay: 63.927 ms

Loss rate: 0.39%

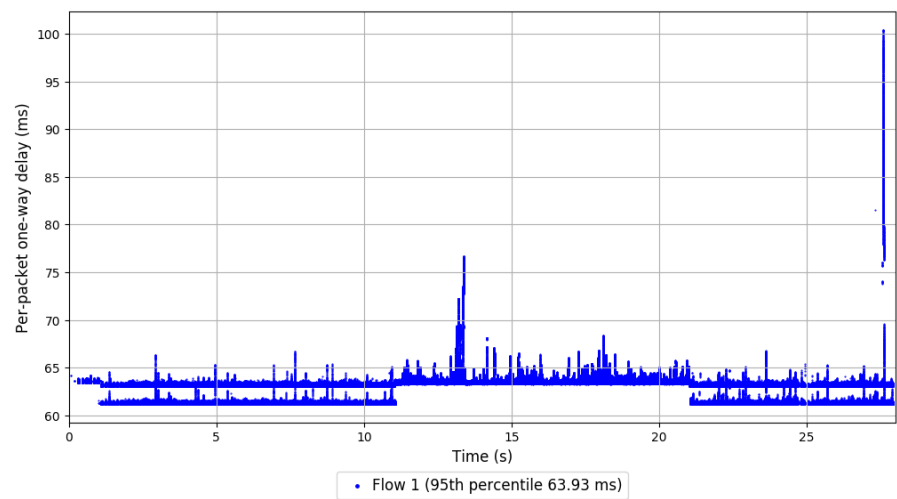
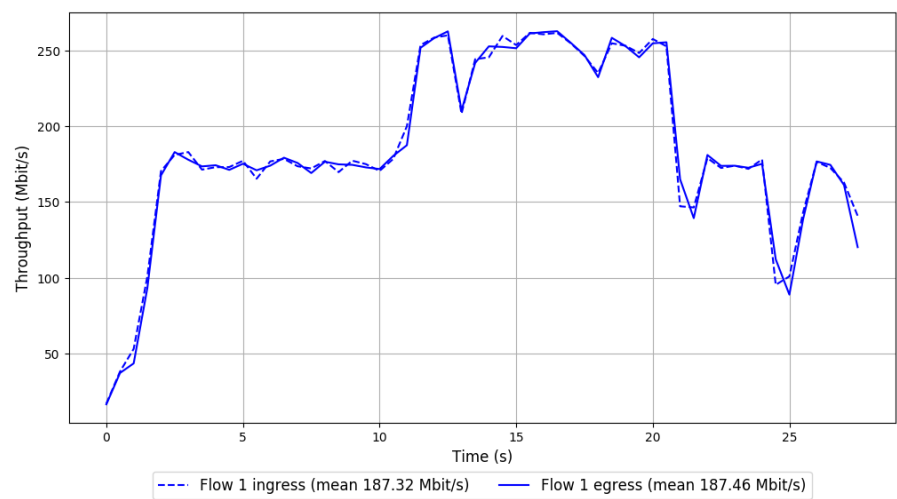
-- Flow 1:

Average throughput: 187.46 Mbit/s

95th percentile per-packet one-way delay: 63.927 ms

Loss rate: 0.39%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 17:54:42

End at: 2017-12-11 17:55:12

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 234.08 Mbit/s

95th percentile per-packet one-way delay: 64.625 ms

Loss rate: 0.15%

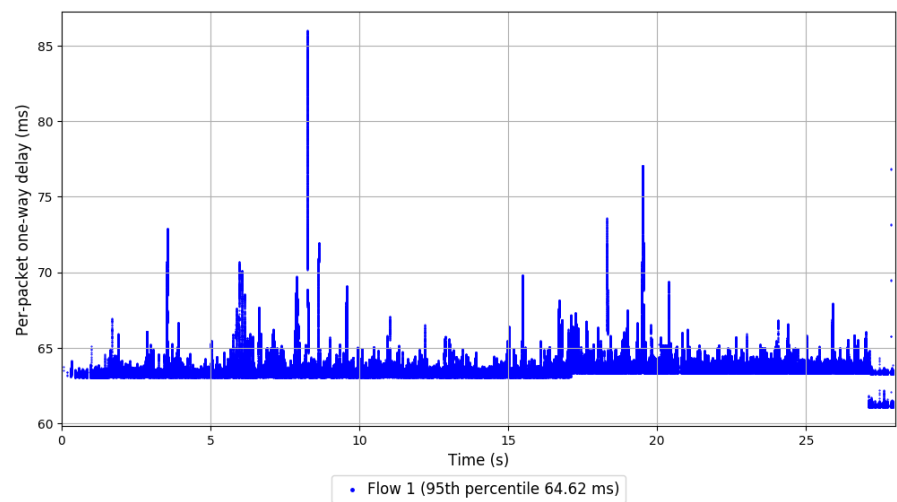
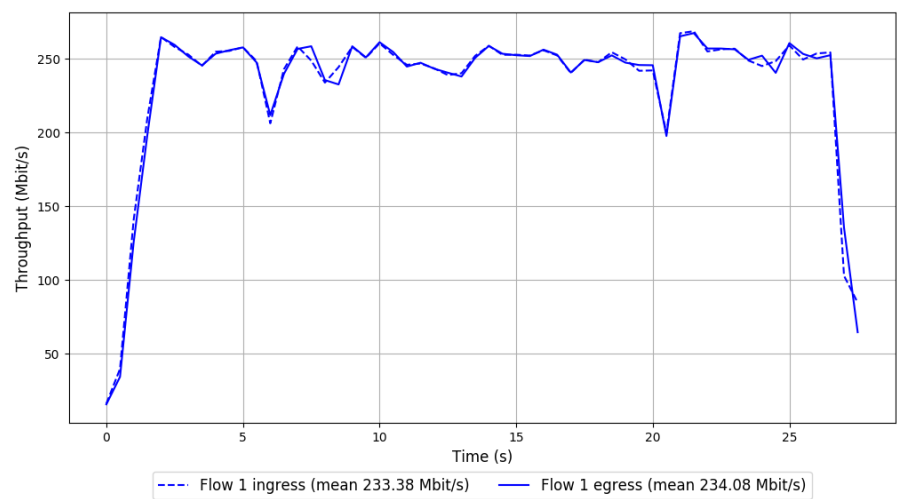
-- Flow 1:

Average throughput: 234.08 Mbit/s

95th percentile per-packet one-way delay: 64.625 ms

Loss rate: 0.15%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 18:05:28

End at: 2017-12-11 18:05:58

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 157.01 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.62%

-- Flow 1:

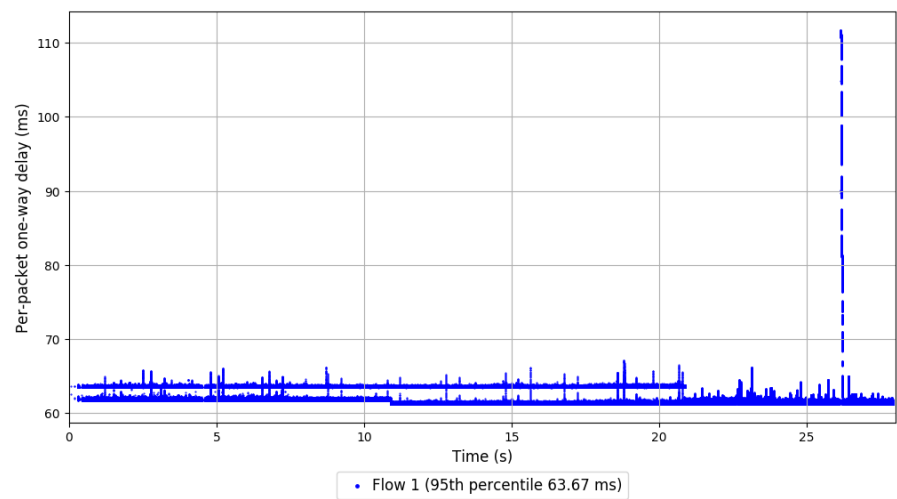
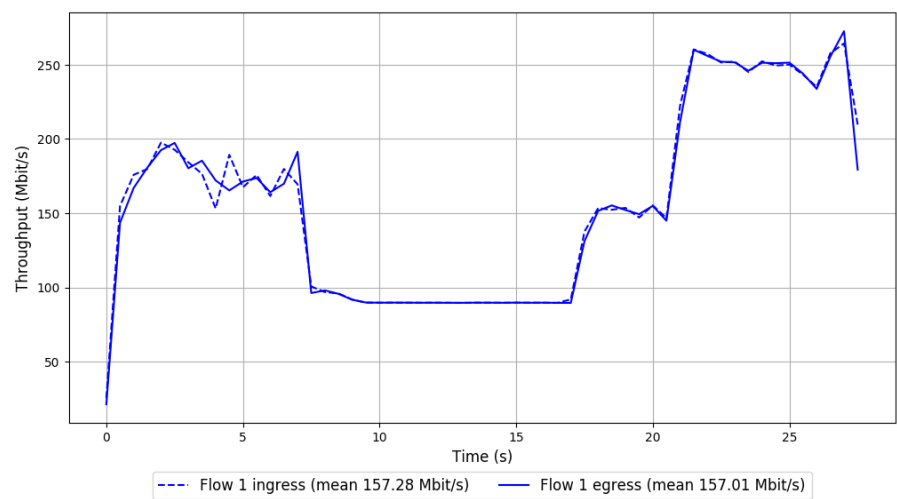
Average throughput: 157.01 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.62%



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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 18:16:04

End at: 2017-12-11 18:16:34

# Below is generated by plot.py at 2017-12-11 21:22:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 204.53 Mbit/s

95th percentile per-packet one-way delay: 63.867 ms

Loss rate: 0.31%

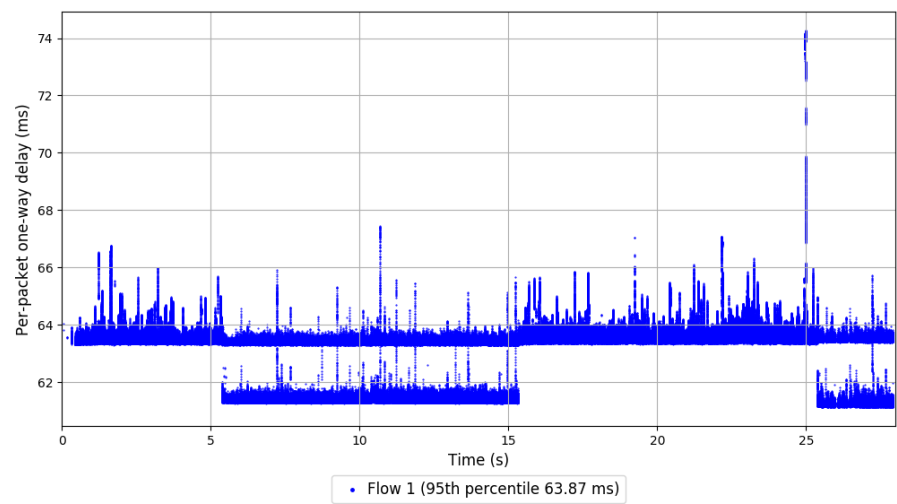
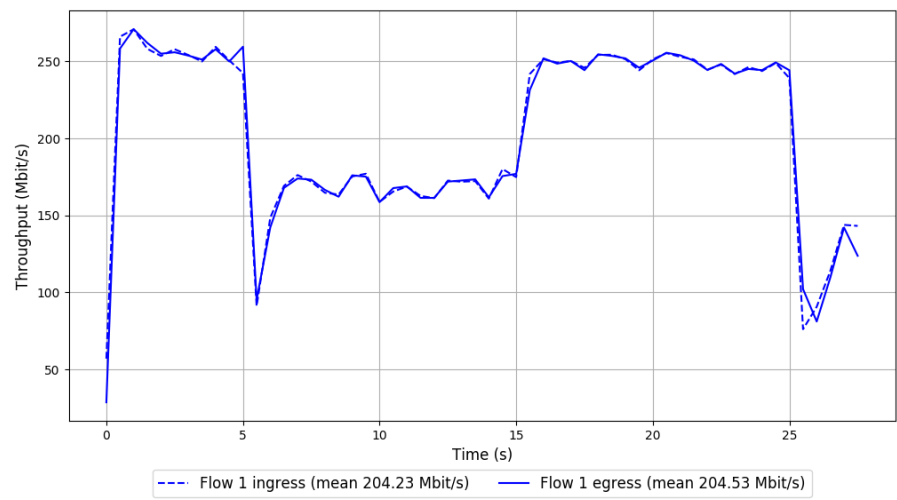
-- Flow 1:

Average throughput: 204.53 Mbit/s

95th percentile per-packet one-way delay: 63.867 ms

Loss rate: 0.31%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 18:26:46

End at: 2017-12-11 18:27:16

# Below is generated by plot.py at 2017-12-11 21:26:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.45 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.56%

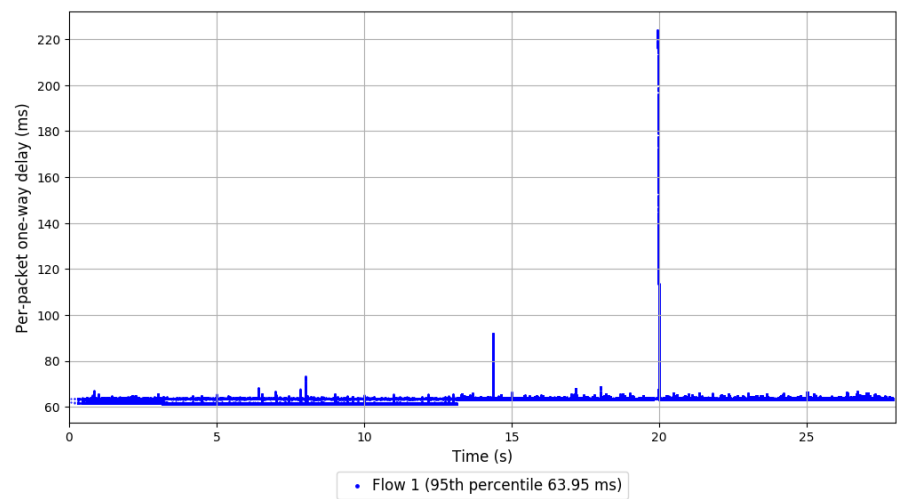
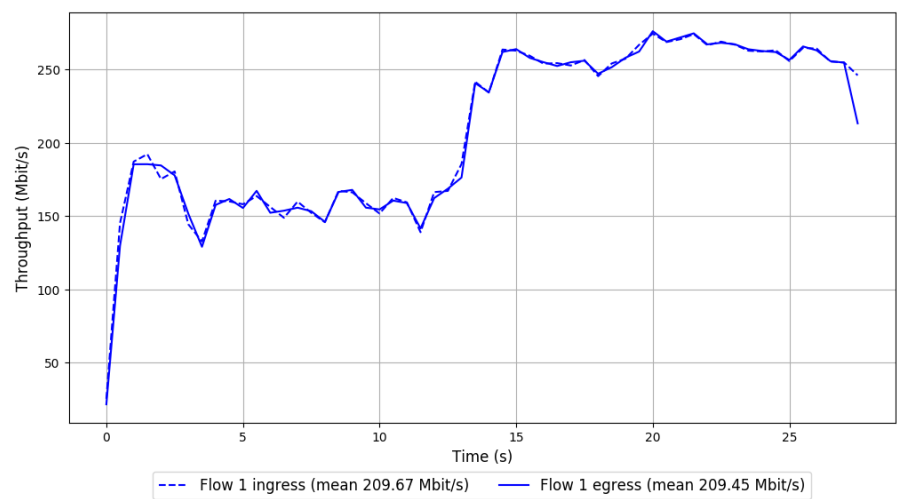
-- Flow 1:

Average throughput: 209.45 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.56%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-11 18:37:25

End at: 2017-12-11 18:37:55

# Below is generated by plot.py at 2017-12-11 21:27:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.96 Mbit/s

95th percentile per-packet one-way delay: 63.825 ms

Loss rate: 0.37%

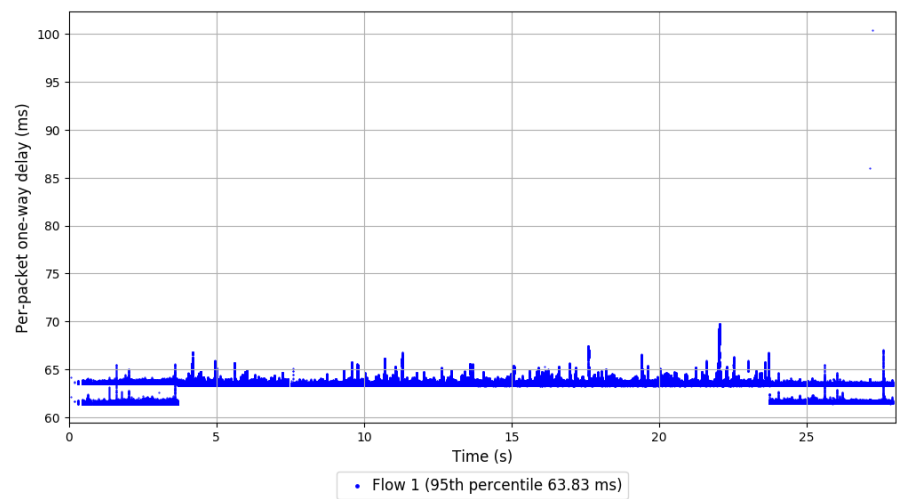
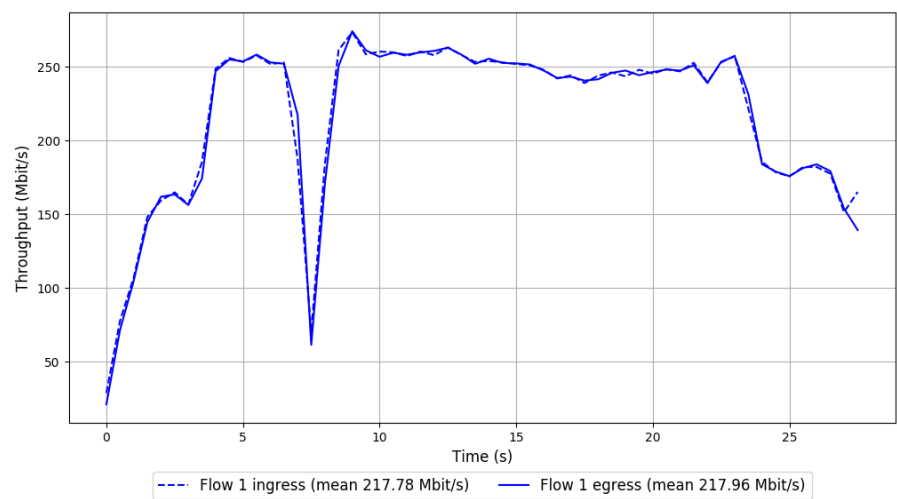
-- Flow 1:

Average throughput: 217.96 Mbit/s

95th percentile per-packet one-way delay: 63.825 ms

Loss rate: 0.37%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-11 18:48:06

End at: 2017-12-11 18:48:36

# Below is generated by plot.py at 2017-12-11 21:27:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.35 Mbit/s

95th percentile per-packet one-way delay: 64.210 ms

Loss rate: 0.58%

-- Flow 1:

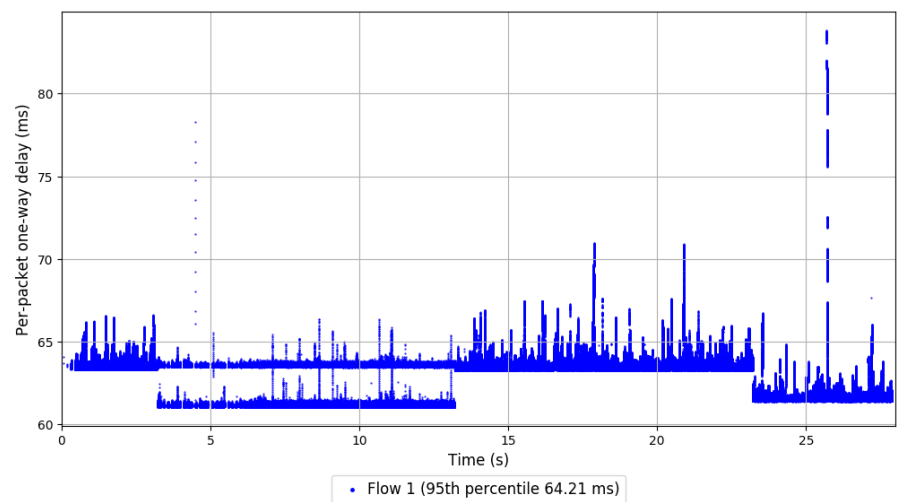
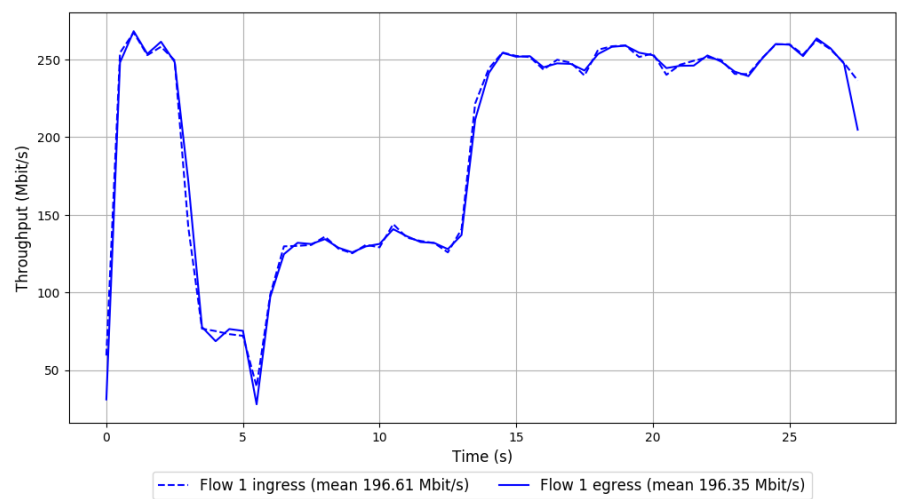
Average throughput: 196.35 Mbit/s

95th percentile per-packet one-way delay: 64.210 ms

Loss rate: 0.58%



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

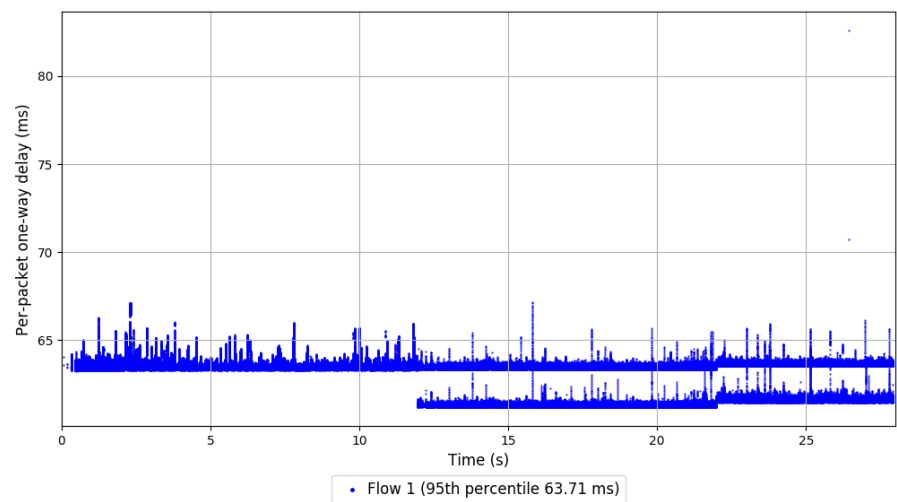
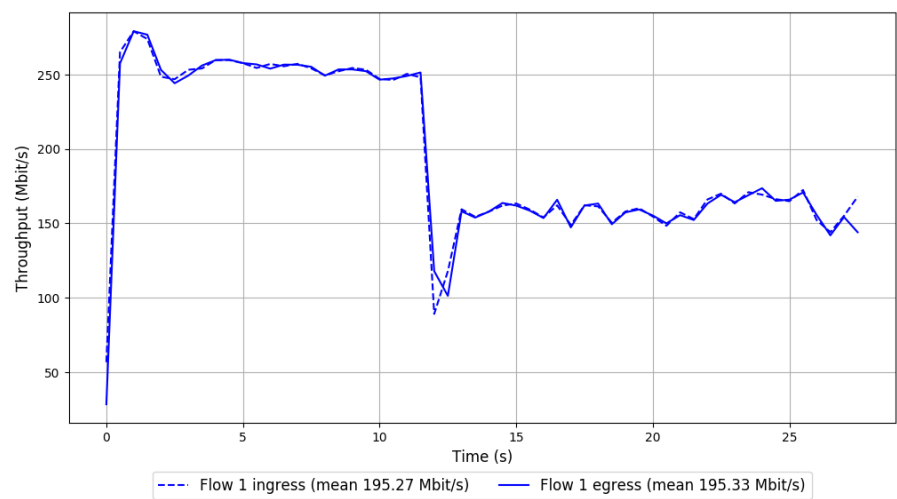


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 18:58:37
End at: 2017-12-11 18:59:07

# Below is generated by plot.py at 2017-12-11 21:27:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.33 Mbit/s
95th percentile per-packet one-way delay: 63.707 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 195.33 Mbit/s
95th percentile per-packet one-way delay: 63.707 ms
Loss rate: 0.41%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 17:28:52

End at: 2017-12-11 17:29:22

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.36%

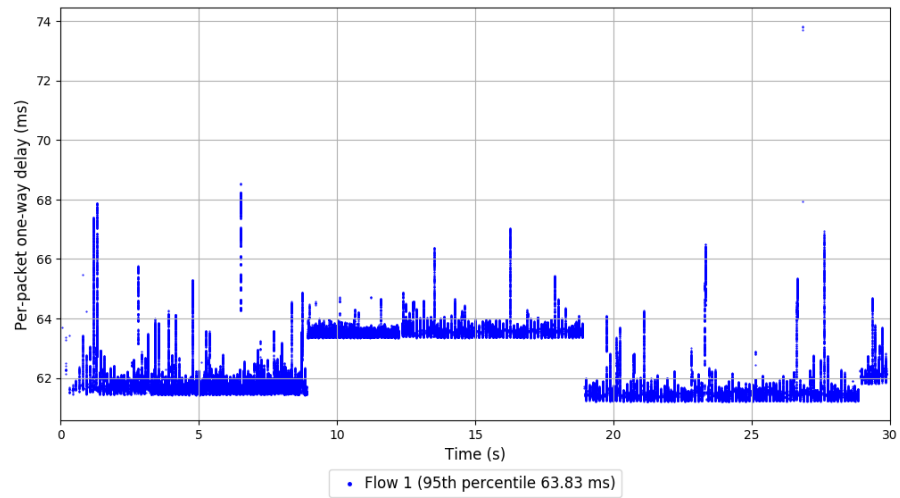
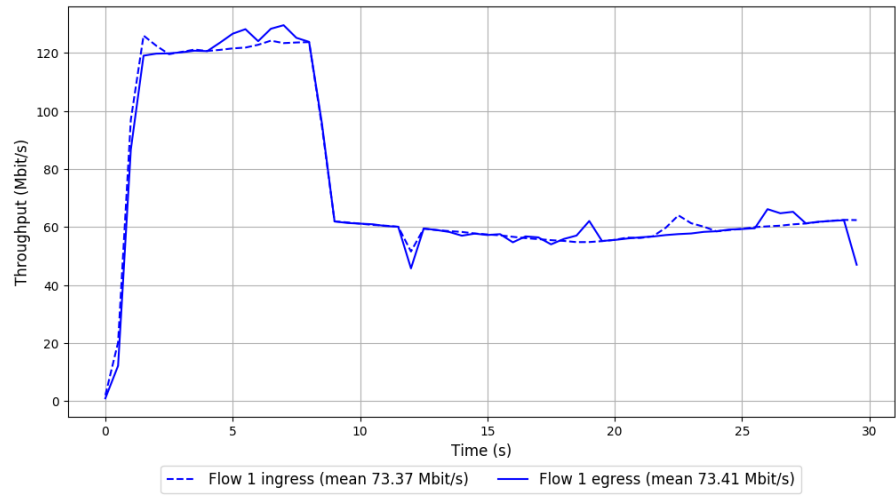
-- Flow 1:

Average throughput: 73.41 Mbit/s

95th percentile per-packet one-way delay: 63.828 ms

Loss rate: 0.36%

# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 17:39:38

End at: 2017-12-11 17:40:08

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 64.094 ms

Loss rate: 0.43%

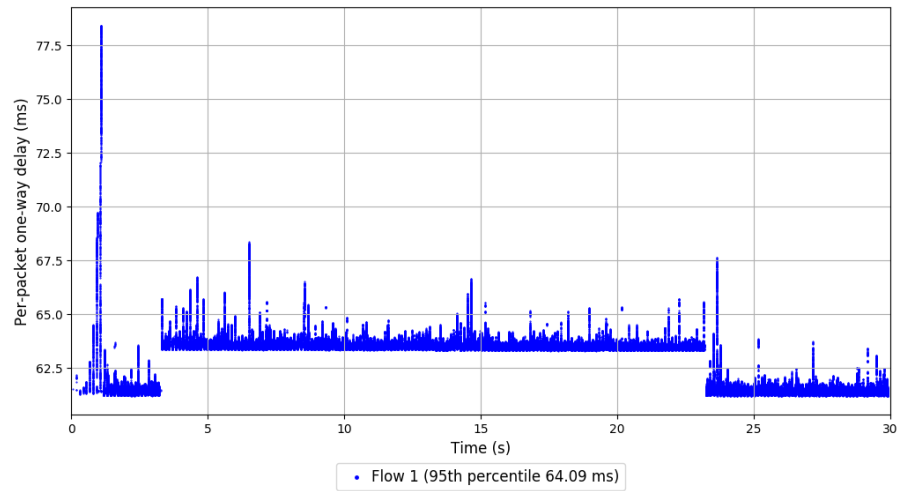
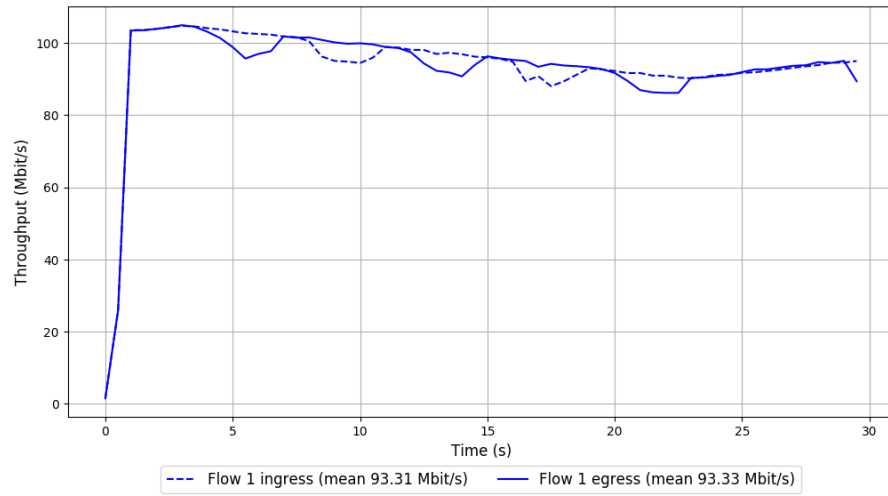
-- Flow 1:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 64.094 ms

Loss rate: 0.43%

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



Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 17:50:16

End at: 2017-12-11 17:50:46

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 64.412 ms

Loss rate: 1.00%

-- Flow 1:

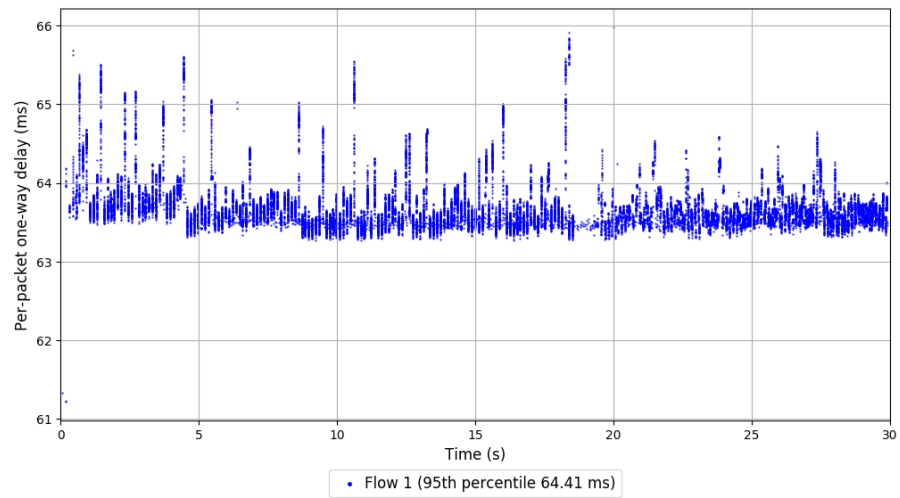
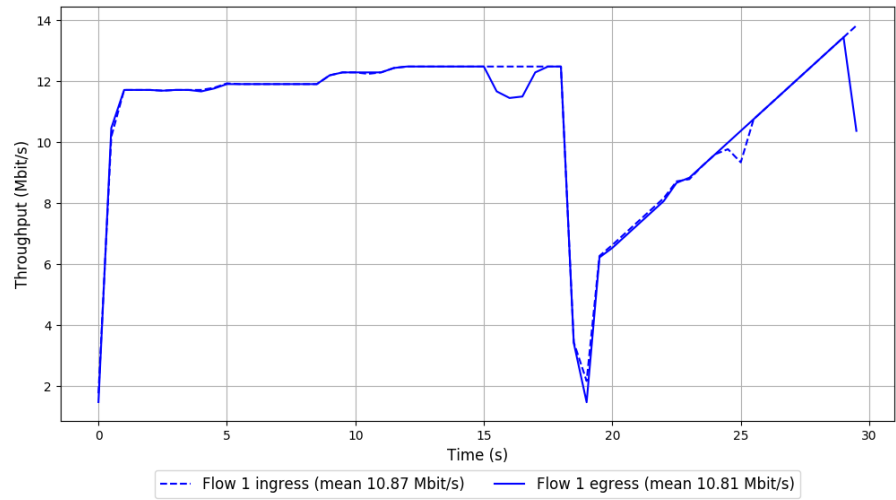
Average throughput: 10.81 Mbit/s

95th percentile per-packet one-way delay: 64.412 ms

Loss rate: 1.00%



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



Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 18:00:58

End at: 2017-12-11 18:01:28

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.38%

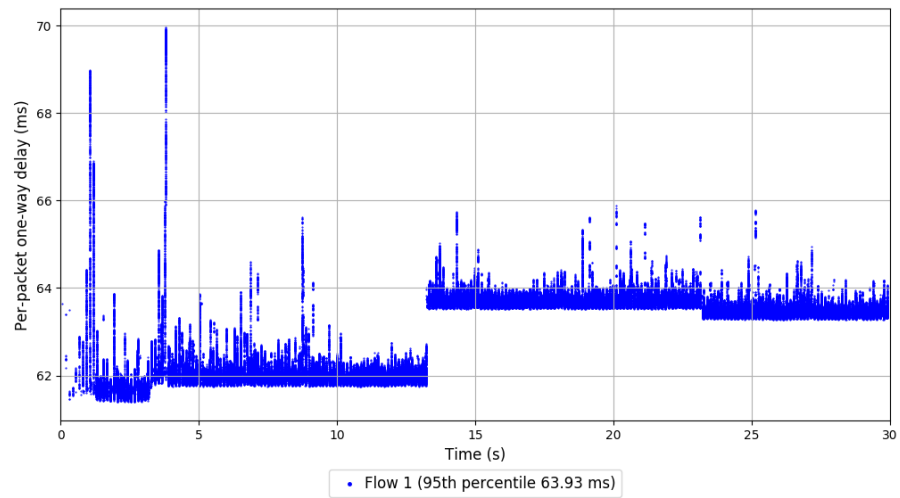
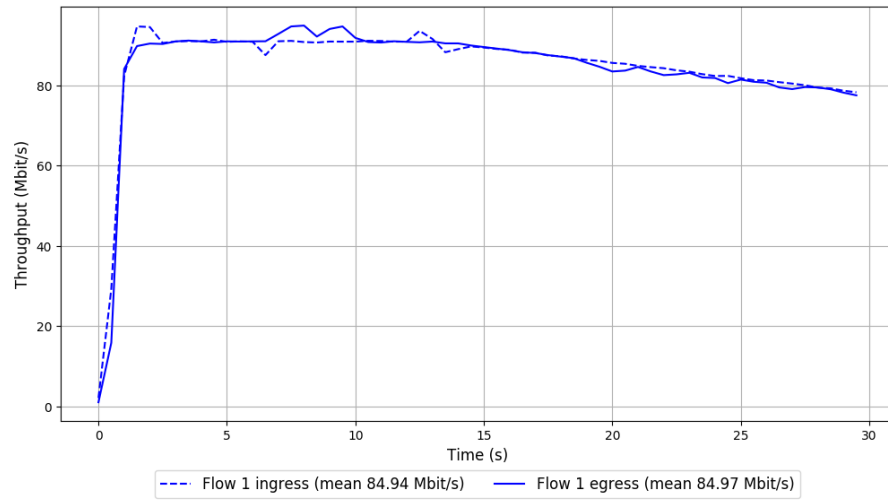
-- Flow 1:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 63.932 ms

Loss rate: 0.38%

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



Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 18:11:35

End at: 2017-12-11 18:12:05

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 71.179 ms

Loss rate: 0.16%

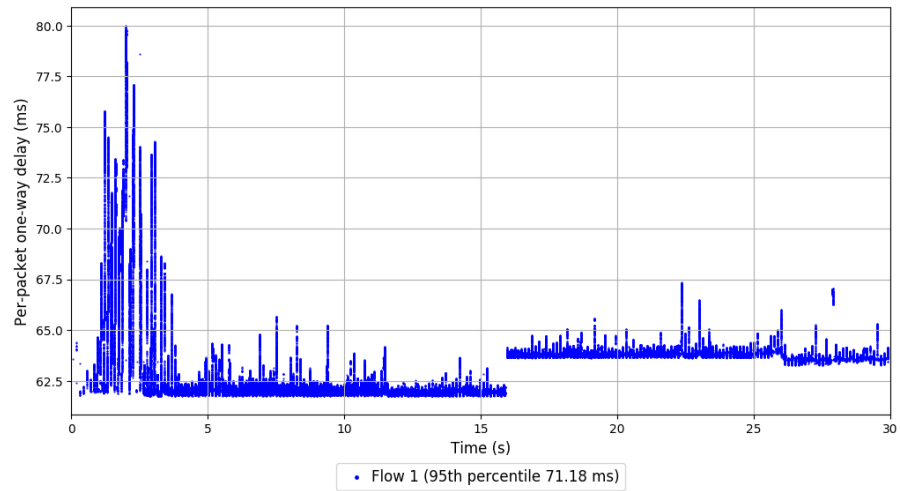
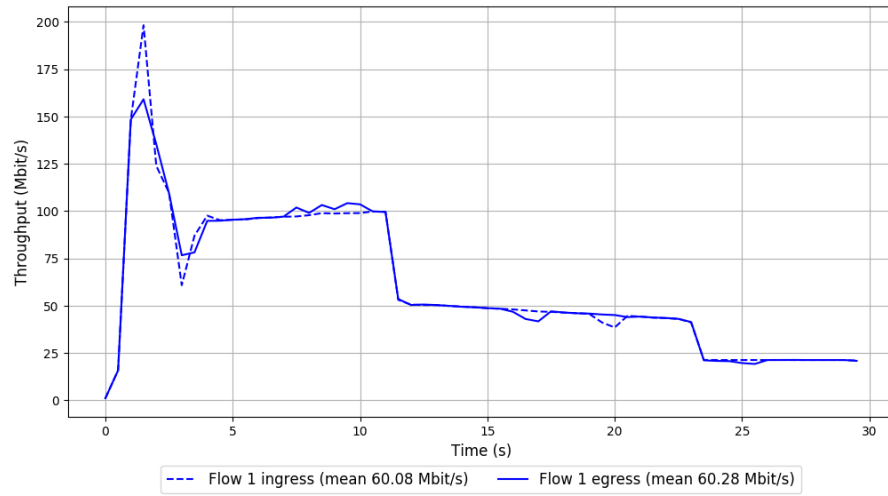
-- Flow 1:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 71.179 ms

Loss rate: 0.16%

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



Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 18:22:14

End at: 2017-12-11 18:22:44

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 106.41 Mbit/s

95th percentile per-packet one-way delay: 64.047 ms

Loss rate: 0.39%

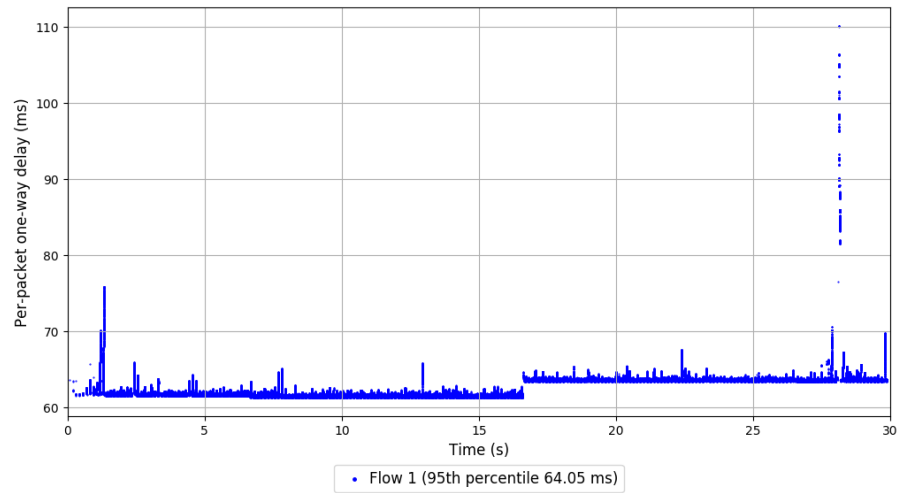
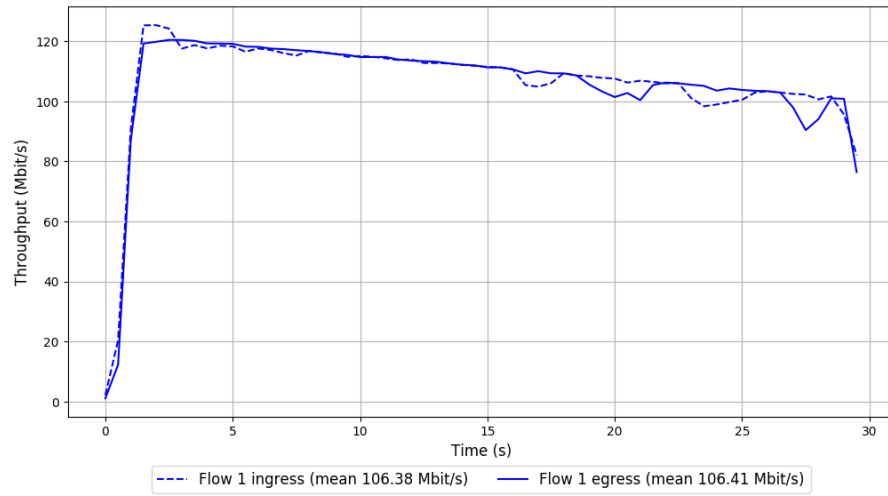
-- Flow 1:

Average throughput: 106.41 Mbit/s

95th percentile per-packet one-way delay: 64.047 ms

Loss rate: 0.39%

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



Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 18:32:55

End at: 2017-12-11 18:33:25

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 41.80 Mbit/s

95th percentile per-packet one-way delay: 64.553 ms

Loss rate: 0.27%

-- Flow 1:

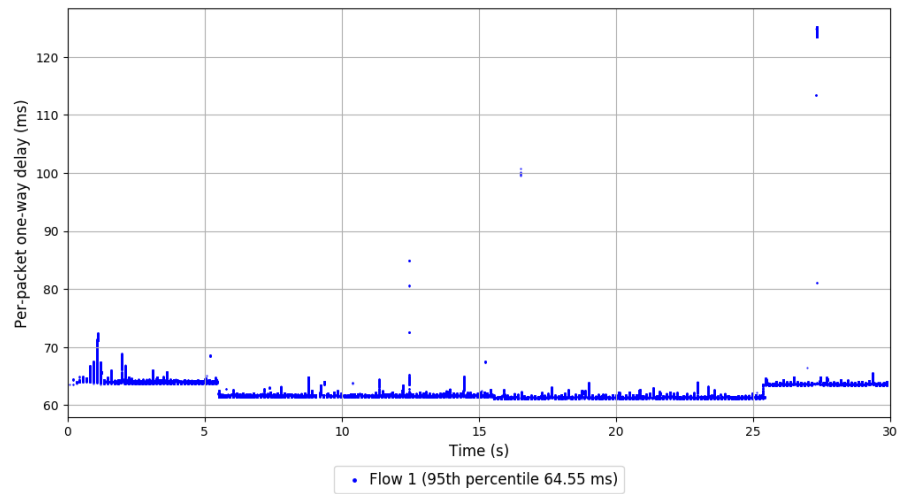
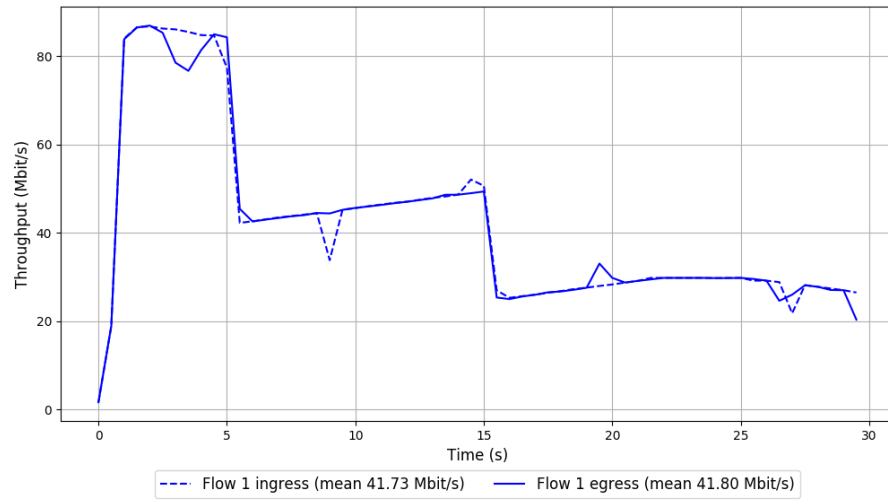
Average throughput: 41.80 Mbit/s

95th percentile per-packet one-way delay: 64.553 ms

Loss rate: 0.27%



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



Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 18:43:38

End at: 2017-12-11 18:44:08

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 64.673 ms

Loss rate: 0.23%

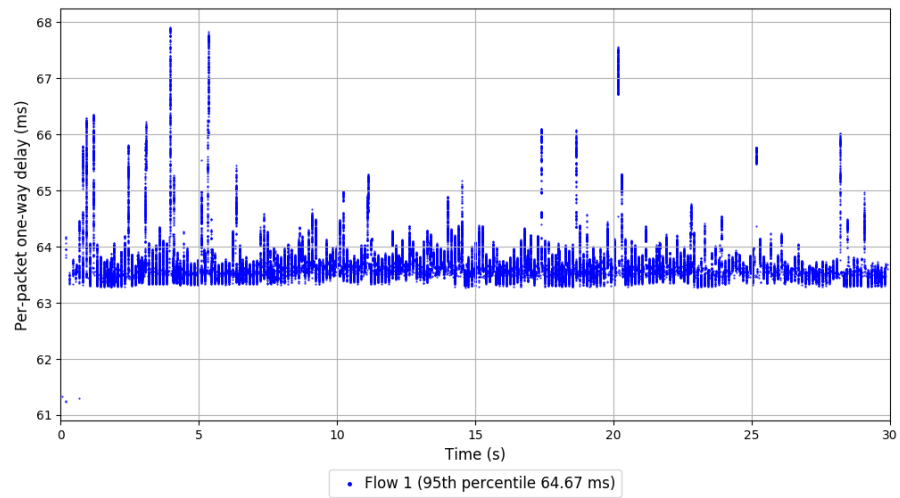
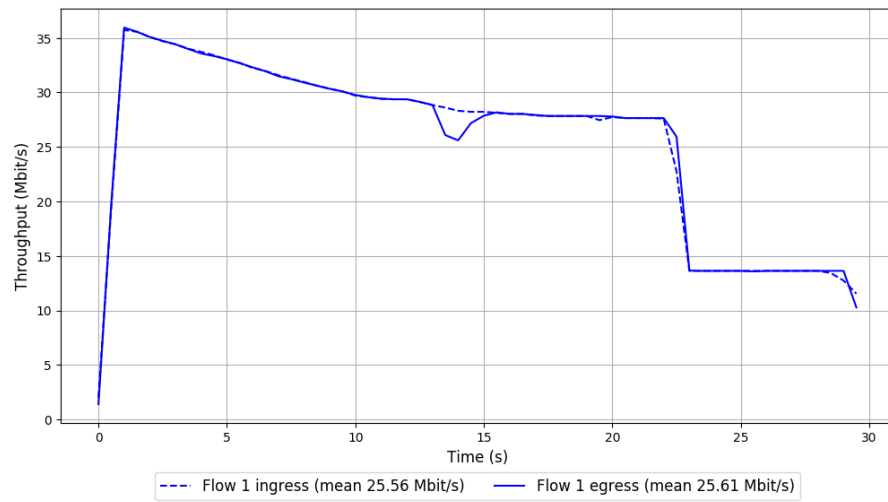
-- Flow 1:

Average throughput: 25.61 Mbit/s

95th percentile per-packet one-way delay: 64.673 ms

Loss rate: 0.23%

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



Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 18:54:13

End at: 2017-12-11 18:54:43

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 30.77 Mbit/s

95th percentile per-packet one-way delay: 64.737 ms

Loss rate: 0.24%

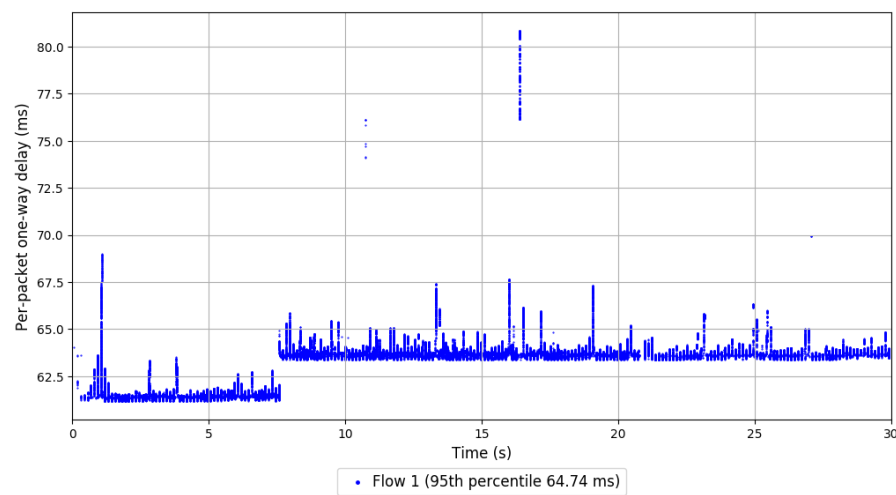
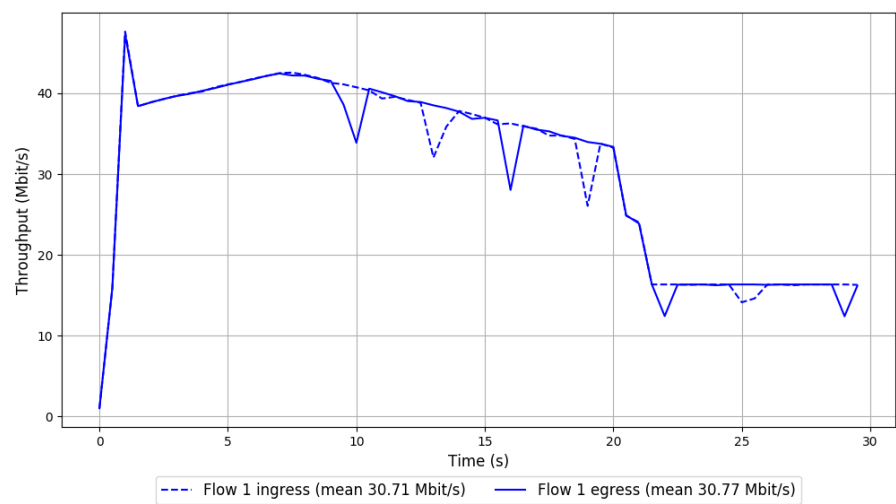
-- Flow 1:

Average throughput: 30.77 Mbit/s

95th percentile per-packet one-way delay: 64.737 ms

Loss rate: 0.24%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 19:04:46

End at: 2017-12-11 19:05:16

# Below is generated by plot.py at 2017-12-11 21:27:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 73.464 ms

Loss rate: 0.15%

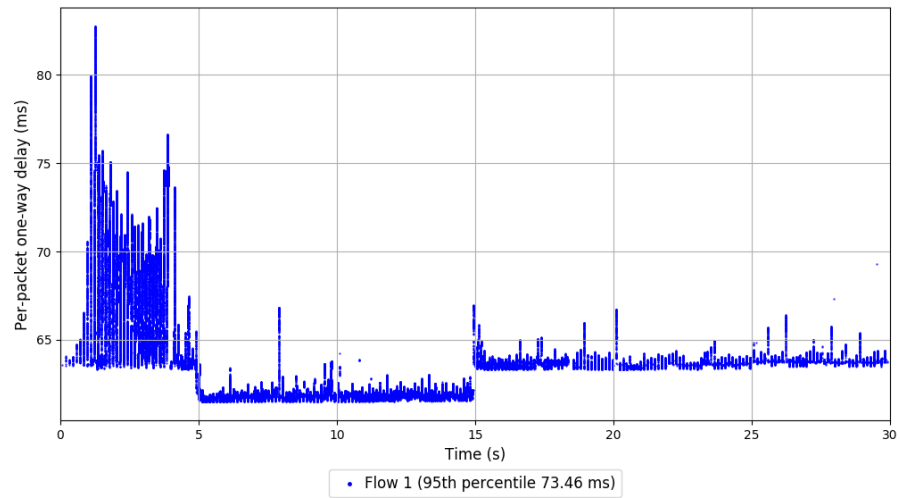
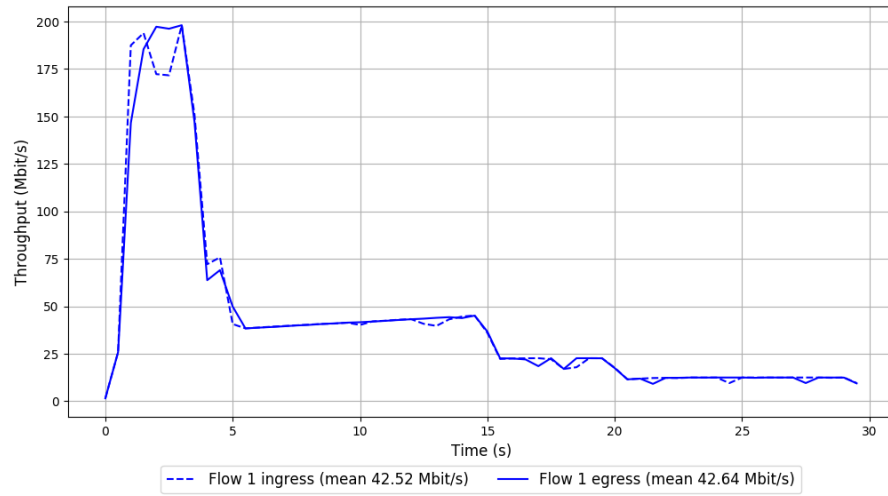
-- Flow 1:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 73.464 ms

Loss rate: 0.15%

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



Run 1: Statistics of Verus

Start at: 2017-12-11 17:19:42

End at: 2017-12-11 17:20:12

# Below is generated by plot.py at 2017-12-11 21:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 268.56 Mbit/s

95th percentile per-packet one-way delay: 120.955 ms

Loss rate: 1.39%

-- Flow 1:

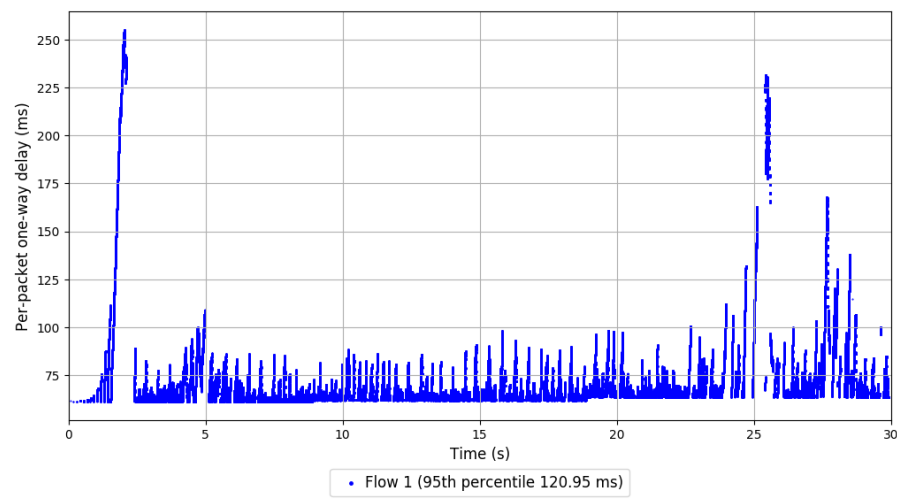
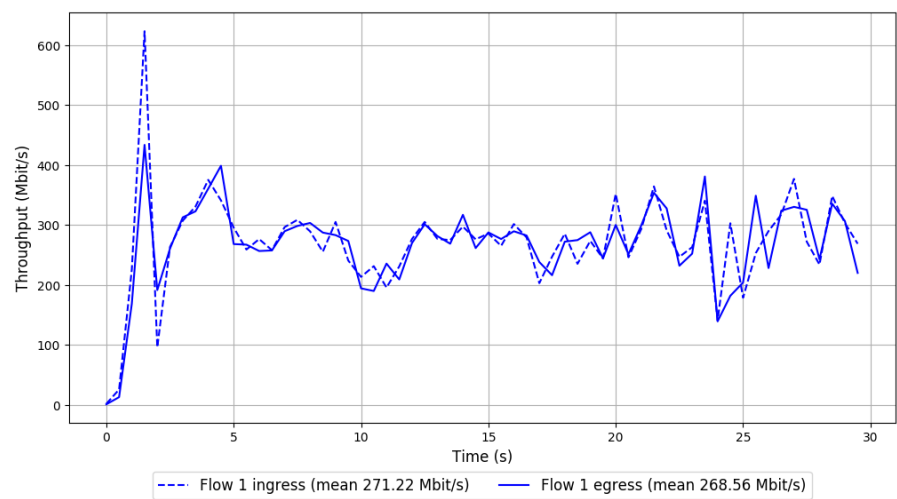
Average throughput: 268.56 Mbit/s

95th percentile per-packet one-way delay: 120.955 ms

Loss rate: 1.39%



Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 17:30:50

End at: 2017-12-11 17:31:20

# Below is generated by plot.py at 2017-12-11 21:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.11 Mbit/s

95th percentile per-packet one-way delay: 143.838 ms

Loss rate: 1.20%

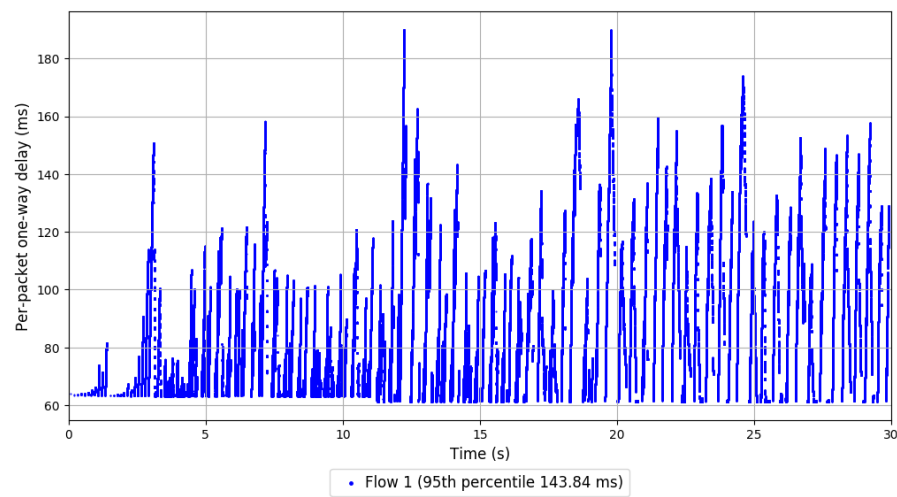
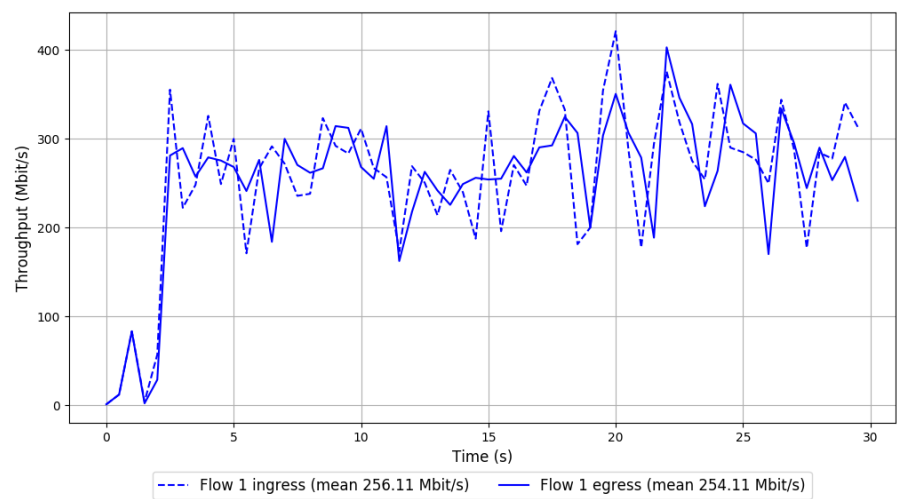
-- Flow 1:

Average throughput: 254.11 Mbit/s

95th percentile per-packet one-way delay: 143.838 ms

Loss rate: 1.20%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-11 17:41:36

End at: 2017-12-11 17:42:06

# Below is generated by plot.py at 2017-12-11 21:29:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.59 Mbit/s

95th percentile per-packet one-way delay: 152.426 ms

Loss rate: 1.14%

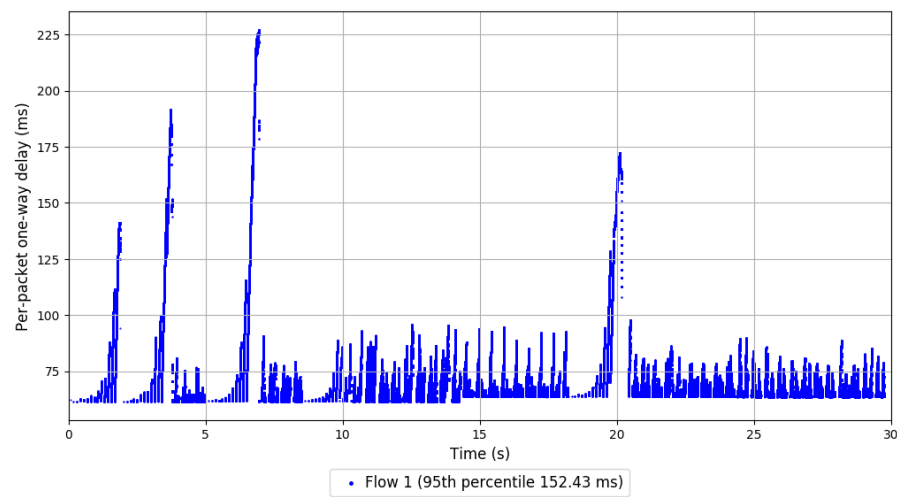
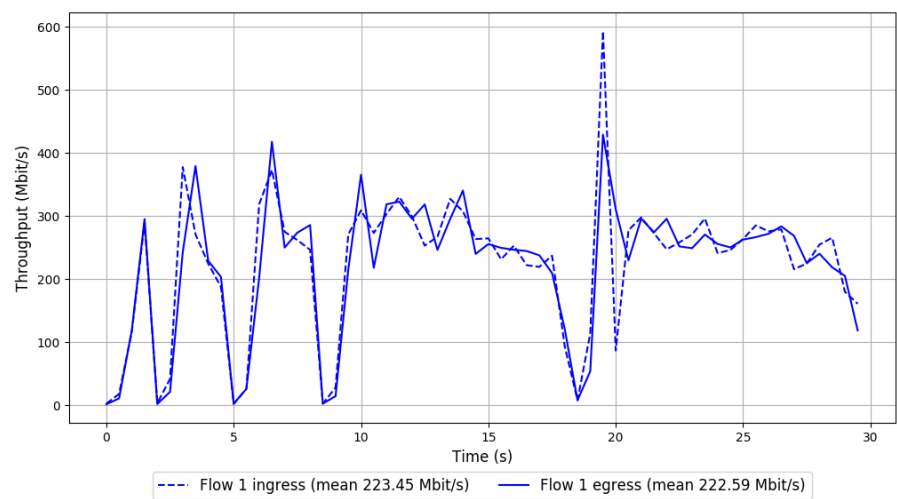
-- Flow 1:

Average throughput: 222.59 Mbit/s

95th percentile per-packet one-way delay: 152.426 ms

Loss rate: 1.14%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-11 17:52:10

End at: 2017-12-11 17:52:40

# Below is generated by plot.py at 2017-12-11 21:30:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 260.89 Mbit/s

95th percentile per-packet one-way delay: 113.894 ms

Loss rate: 1.05%

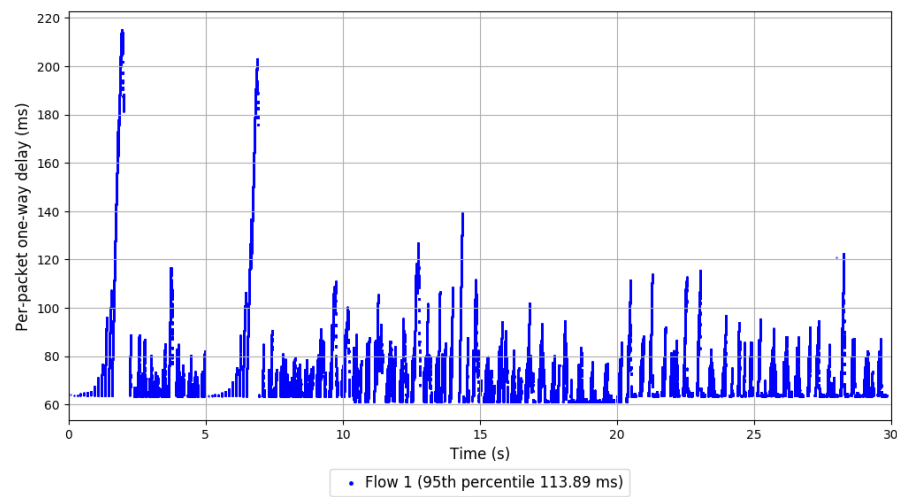
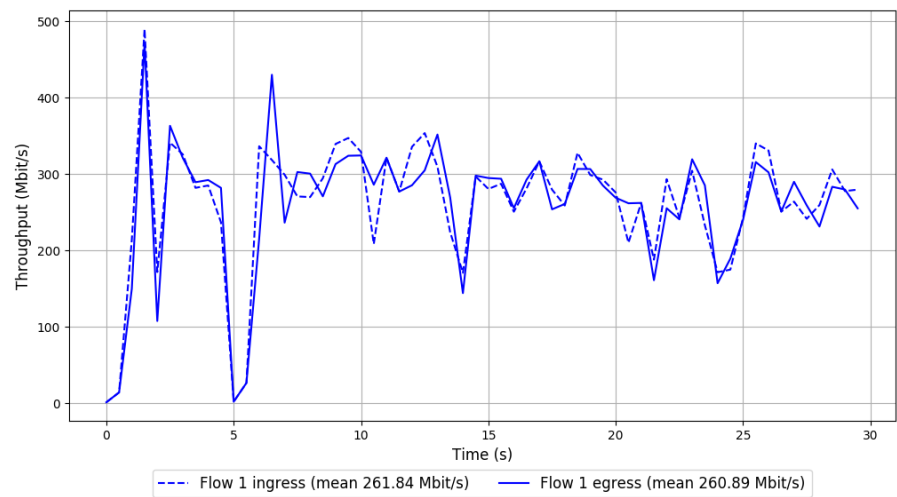
-- Flow 1:

Average throughput: 260.89 Mbit/s

95th percentile per-packet one-way delay: 113.894 ms

Loss rate: 1.05%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-11 18:02:56

End at: 2017-12-11 18:03:26

# Below is generated by plot.py at 2017-12-11 21:31:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 243.53 Mbit/s

95th percentile per-packet one-way delay: 118.087 ms

Loss rate: 0.88%

-- Flow 1:

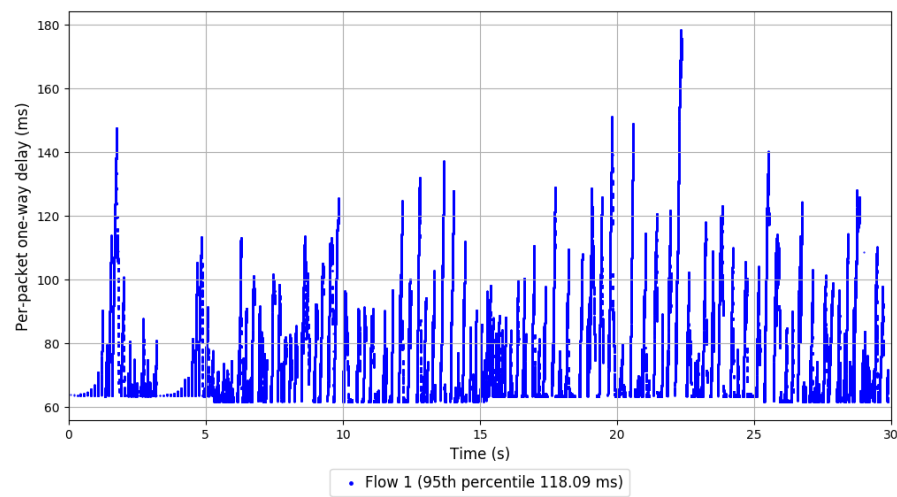
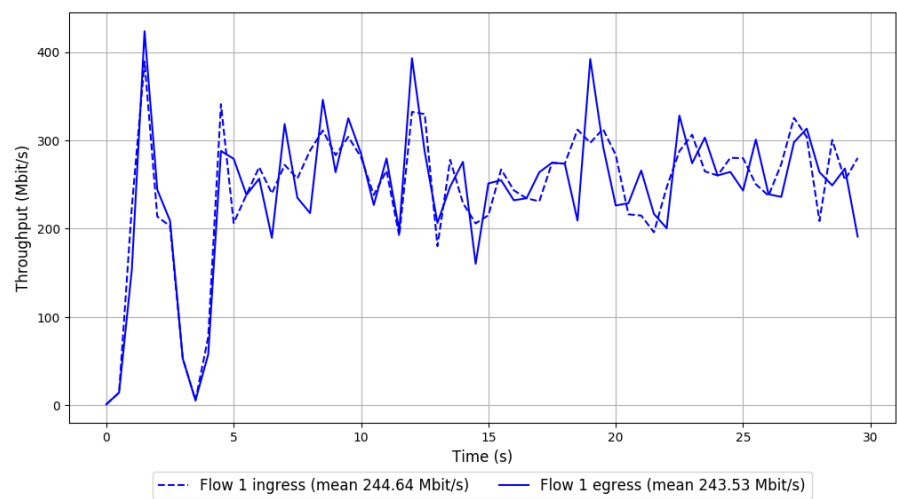
Average throughput: 243.53 Mbit/s

95th percentile per-packet one-way delay: 118.087 ms

Loss rate: 0.88%



Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-11 18:13:32

End at: 2017-12-11 18:14:02

# Below is generated by plot.py at 2017-12-11 21:31:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 222.18 Mbit/s

95th percentile per-packet one-way delay: 188.813 ms

Loss rate: 1.78%

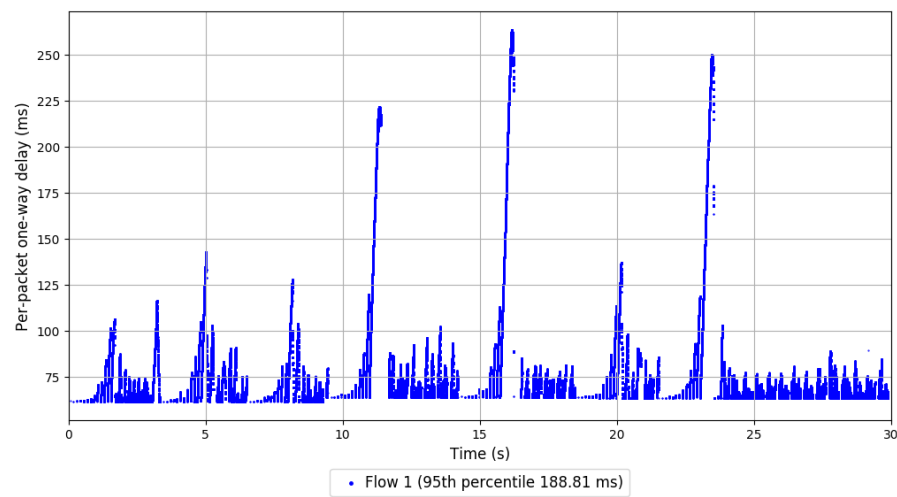
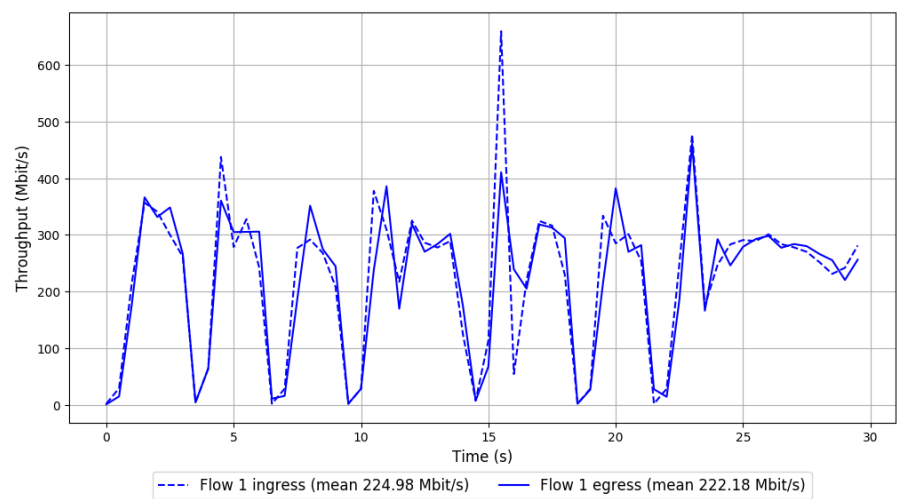
-- Flow 1:

Average throughput: 222.18 Mbit/s

95th percentile per-packet one-way delay: 188.813 ms

Loss rate: 1.78%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-11 18:24:13

End at: 2017-12-11 18:24:43

# Below is generated by plot.py at 2017-12-11 21:31:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.48 Mbit/s

95th percentile per-packet one-way delay: 143.602 ms

Loss rate: 1.48%

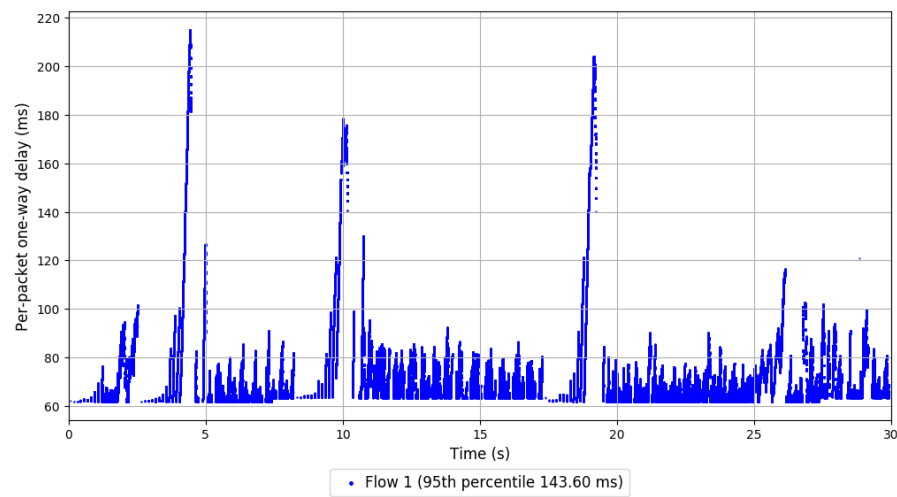
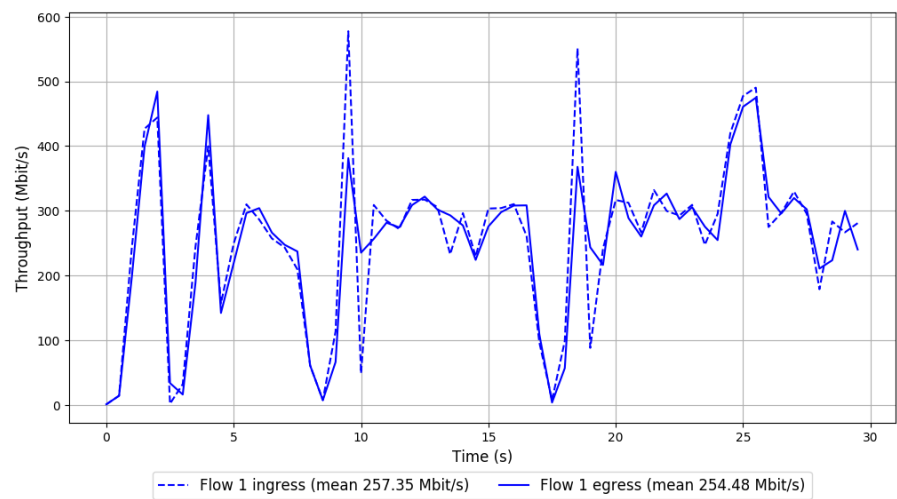
-- Flow 1:

Average throughput: 254.48 Mbit/s

95th percentile per-packet one-way delay: 143.602 ms

Loss rate: 1.48%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-11 18:34:51

End at: 2017-12-11 18:35:21

# Below is generated by plot.py at 2017-12-11 21:32:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 269.46 Mbit/s

95th percentile per-packet one-way delay: 111.405 ms

Loss rate: 2.67%

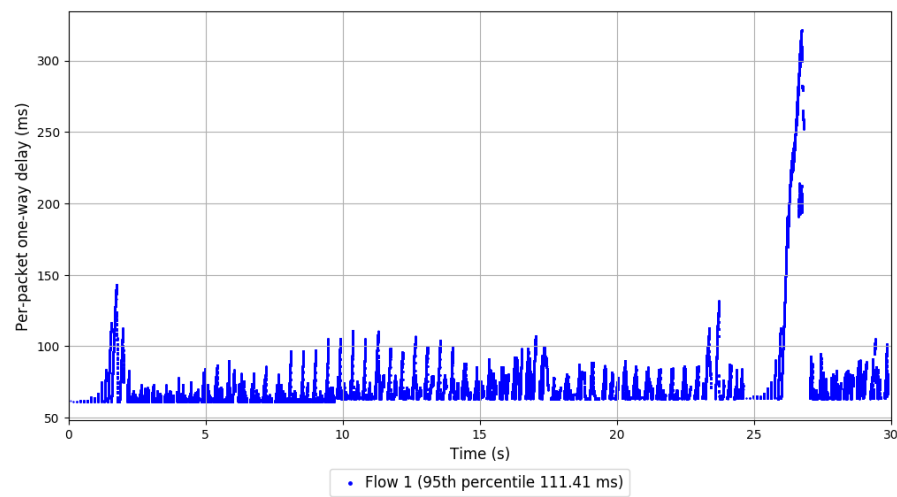
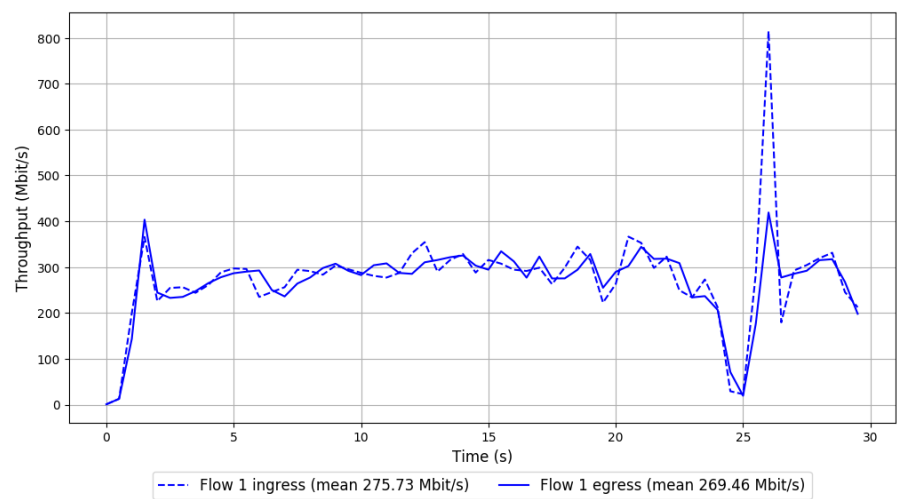
-- Flow 1:

Average throughput: 269.46 Mbit/s

95th percentile per-packet one-way delay: 111.405 ms

Loss rate: 2.67%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-11 18:45:33

End at: 2017-12-11 18:46:03

# Below is generated by plot.py at 2017-12-11 21:33:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 234.98 Mbit/s

95th percentile per-packet one-way delay: 253.135 ms

Loss rate: 4.72%

-- Flow 1:

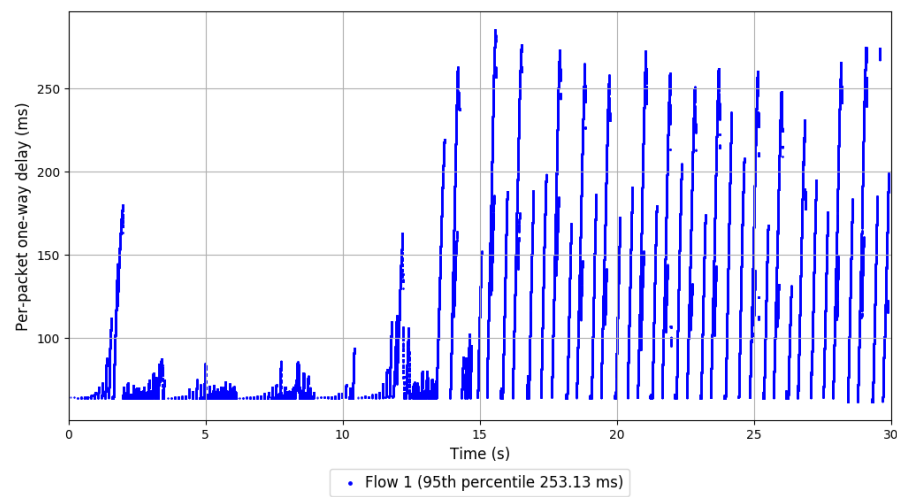
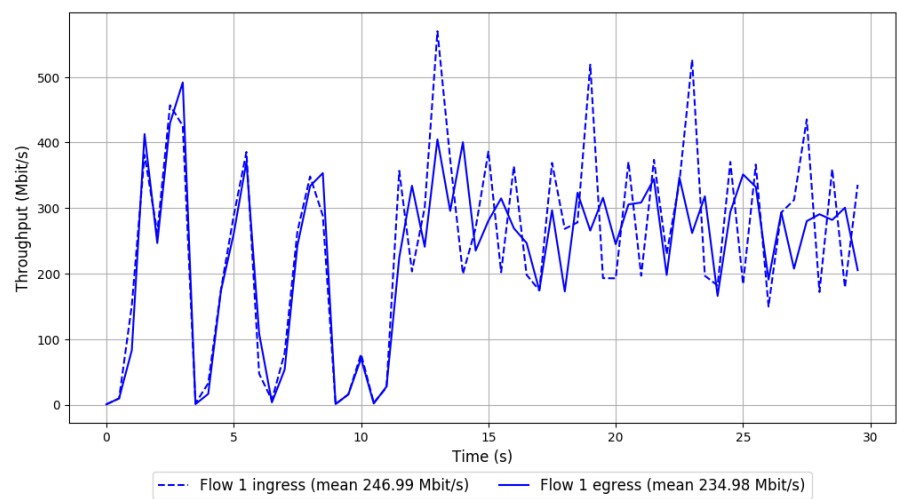
Average throughput: 234.98 Mbit/s

95th percentile per-packet one-way delay: 253.135 ms

Loss rate: 4.72%



Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-11 18:56:08

End at: 2017-12-11 18:56:38

# Below is generated by plot.py at 2017-12-11 21:33:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.33 Mbit/s

95th percentile per-packet one-way delay: 155.785 ms

Loss rate: 0.95%

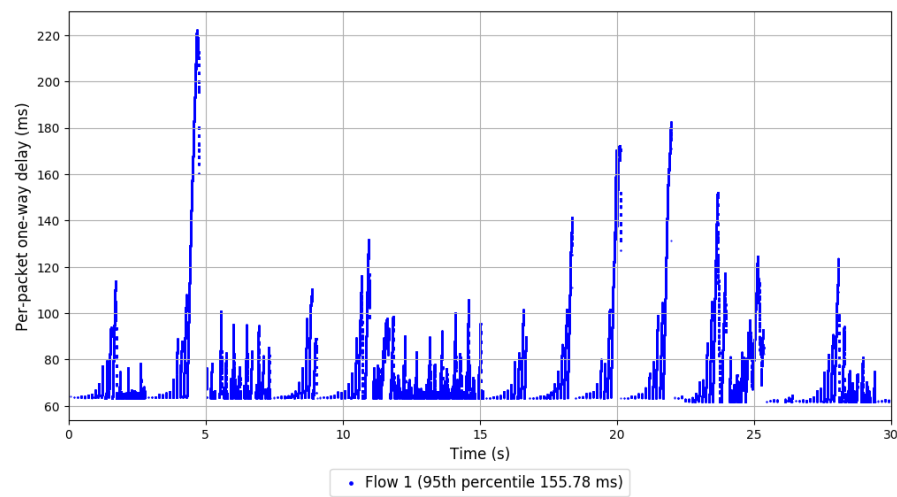
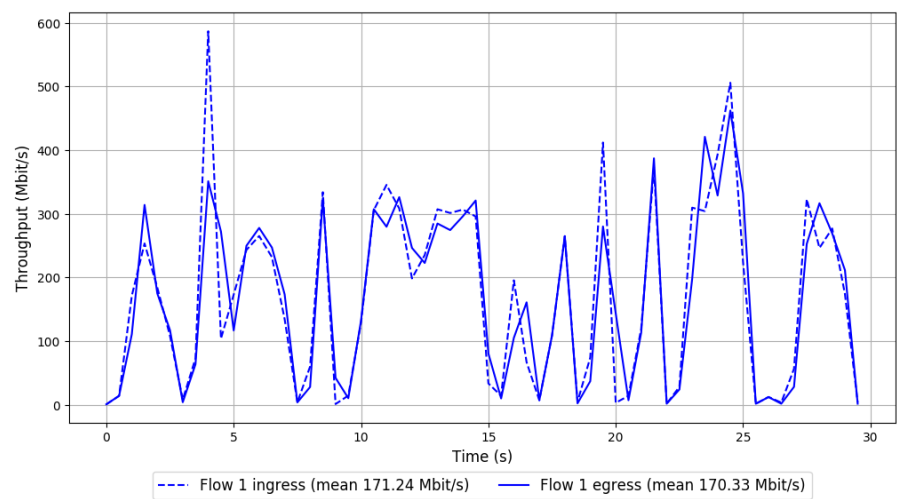
-- Flow 1:

Average throughput: 170.33 Mbit/s

95th percentile per-packet one-way delay: 155.785 ms

Loss rate: 0.95%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-12-11 17:28:06

End at: 2017-12-11 17:28:36

# Below is generated by plot.py at 2017-12-11 21:33:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 77.97 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.14%

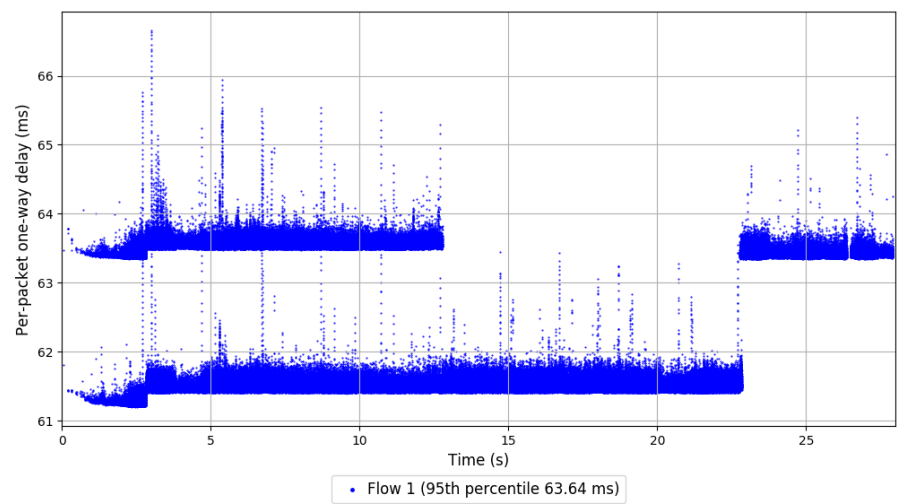
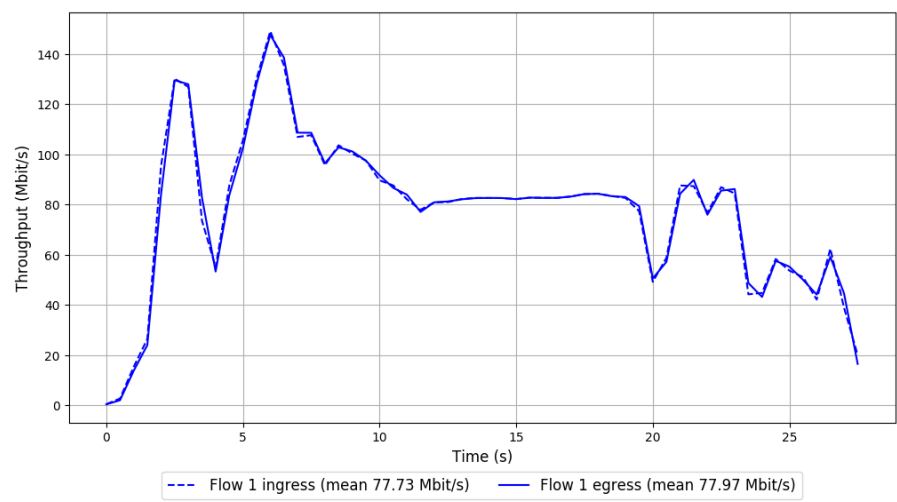
-- Flow 1:

Average throughput: 77.97 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.14%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-12-11 17:38:52

End at: 2017-12-11 17:39:22

# Below is generated by plot.py at 2017-12-11 21:33:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.63 Mbit/s

95th percentile per-packet one-way delay: 63.705 ms

Loss rate: 0.46%

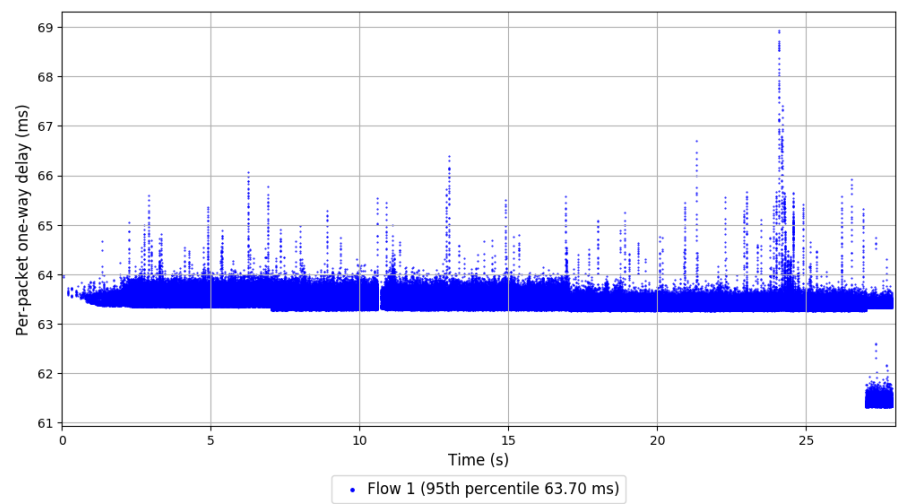
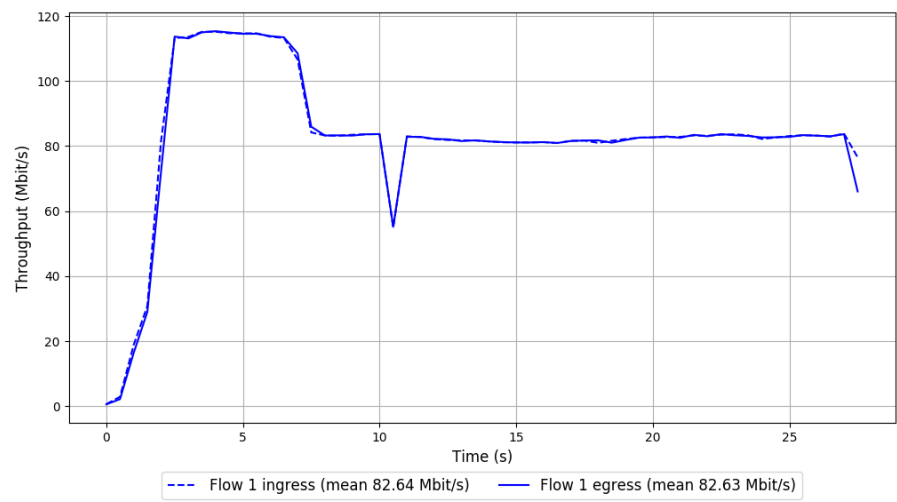
-- Flow 1:

Average throughput: 82.63 Mbit/s

95th percentile per-packet one-way delay: 63.705 ms

Loss rate: 0.46%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-11 17:49:31

End at: 2017-12-11 17:50:01

# Below is generated by plot.py at 2017-12-11 21:33:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 63.779 ms

Loss rate: 0.19%

-- Flow 1:

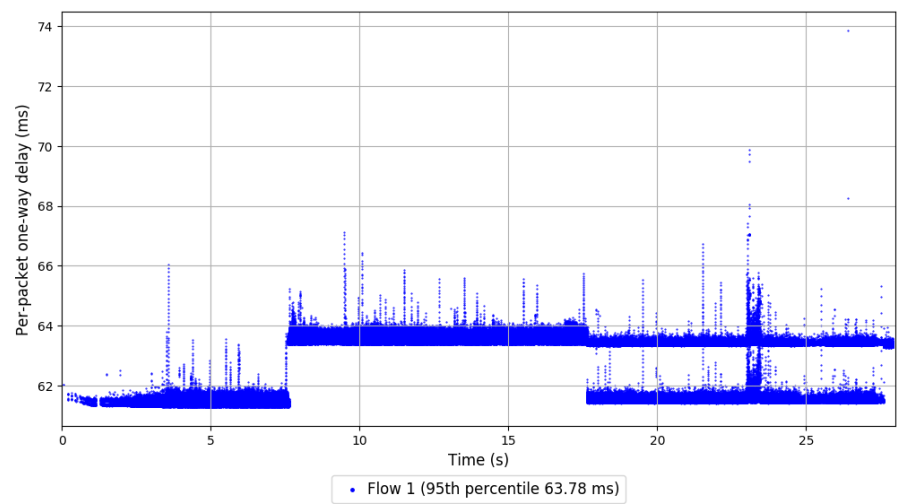
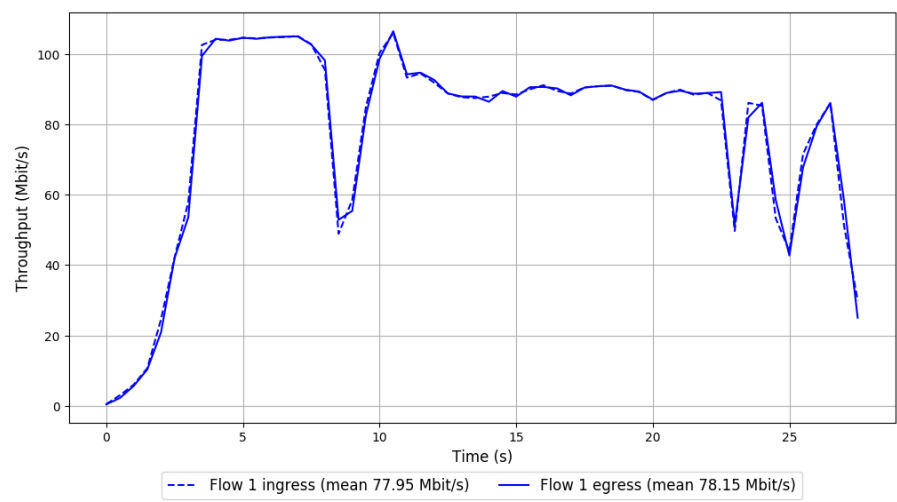
Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 63.779 ms

Loss rate: 0.19%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-12-11 18:00:12

End at: 2017-12-11 18:00:42

# Below is generated by plot.py at 2017-12-11 21:33:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.09%

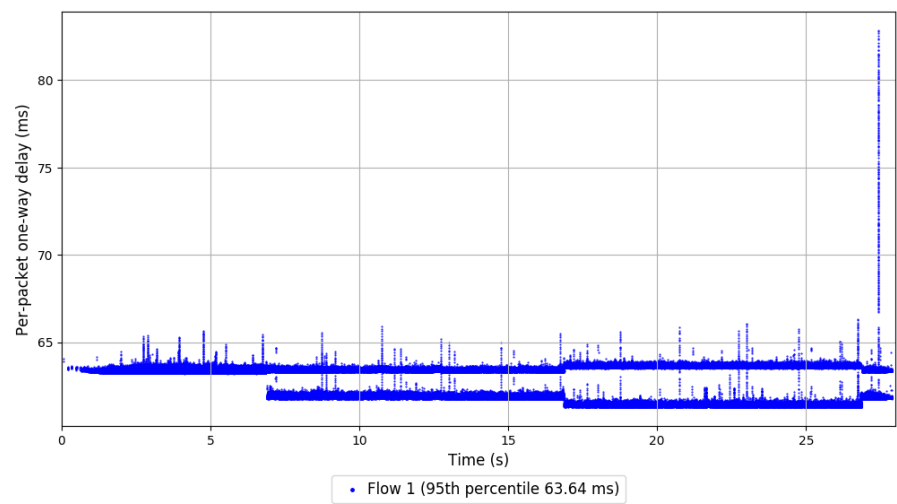
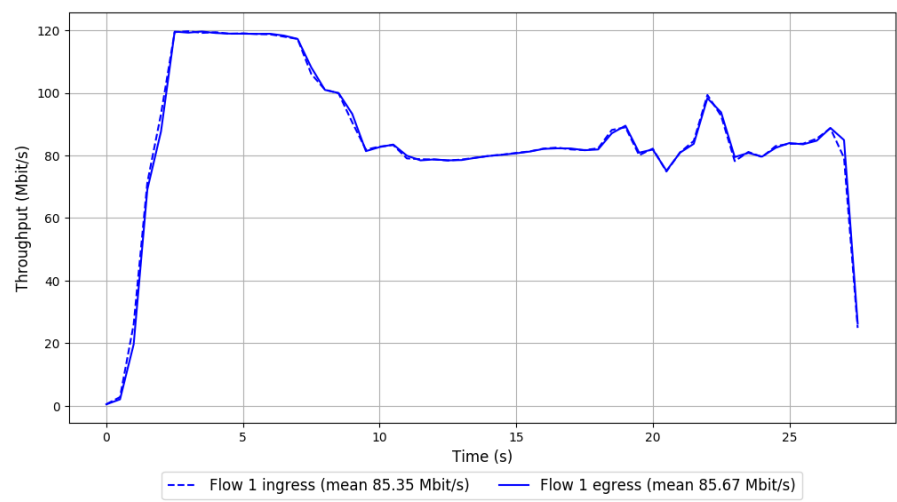
-- Flow 1:

Average throughput: 85.67 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.09%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-11 18:10:50

End at: 2017-12-11 18:11:20

# Below is generated by plot.py at 2017-12-11 21:34:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 63.727 ms

Loss rate: 0.52%

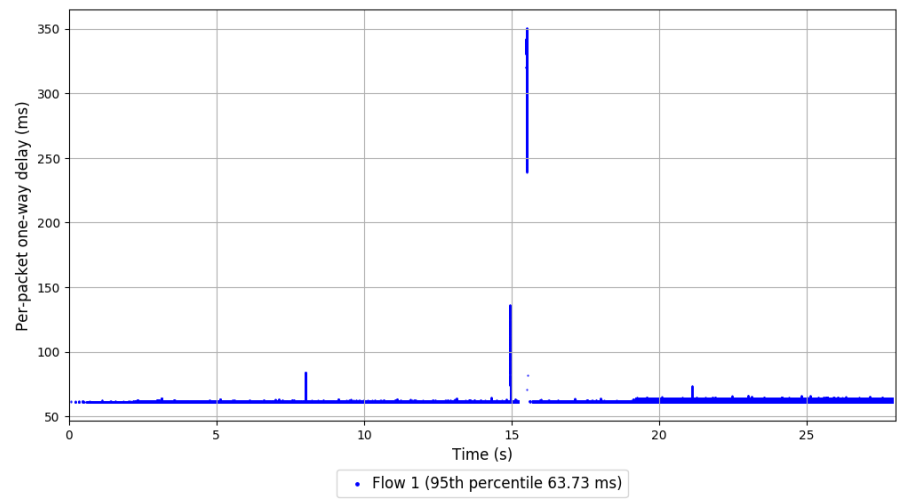
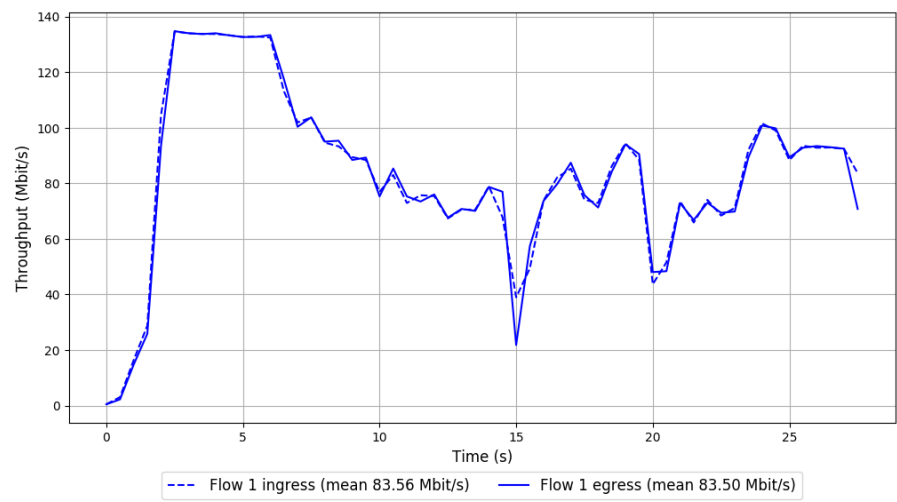
-- Flow 1:

Average throughput: 83.50 Mbit/s

95th percentile per-packet one-way delay: 63.727 ms

Loss rate: 0.52%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-11 18:21:28

End at: 2017-12-11 18:21:59

# Below is generated by plot.py at 2017-12-11 21:35:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 85.93 Mbit/s

95th percentile per-packet one-way delay: 63.479 ms

Loss rate: 0.46%

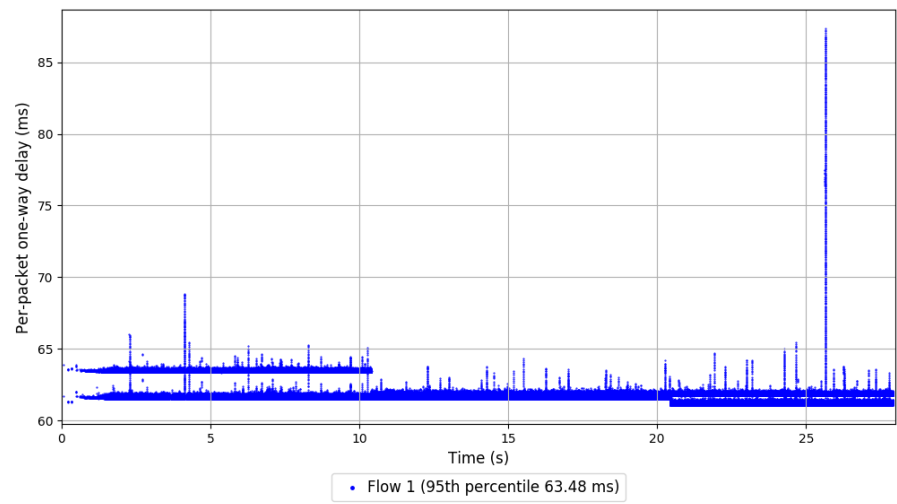
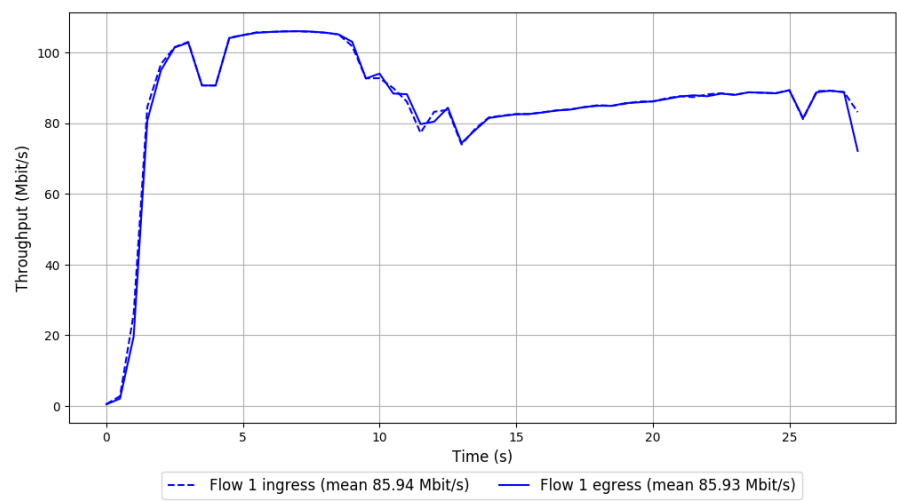
-- Flow 1:

Average throughput: 85.93 Mbit/s

95th percentile per-packet one-way delay: 63.479 ms

Loss rate: 0.46%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-11 18:32:10

End at: 2017-12-11 18:32:40

# Below is generated by plot.py at 2017-12-11 21:35:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 63.906 ms

Loss rate: 0.45%

-- Flow 1:

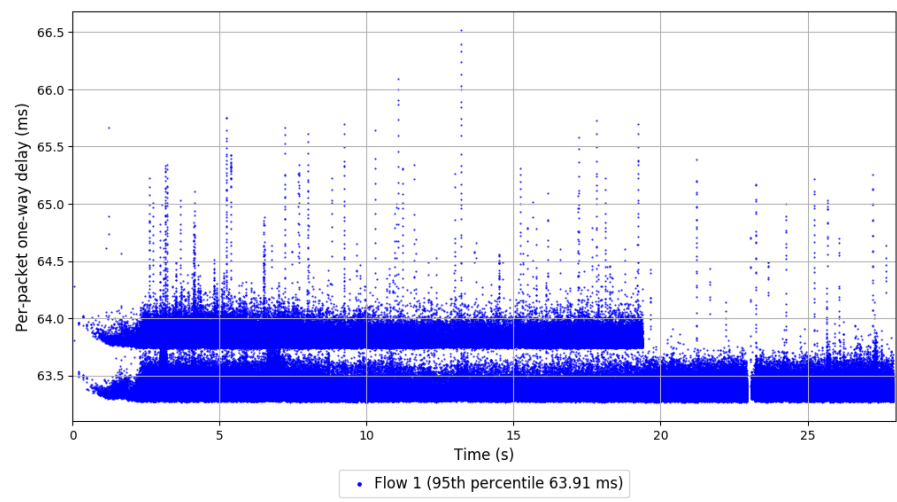
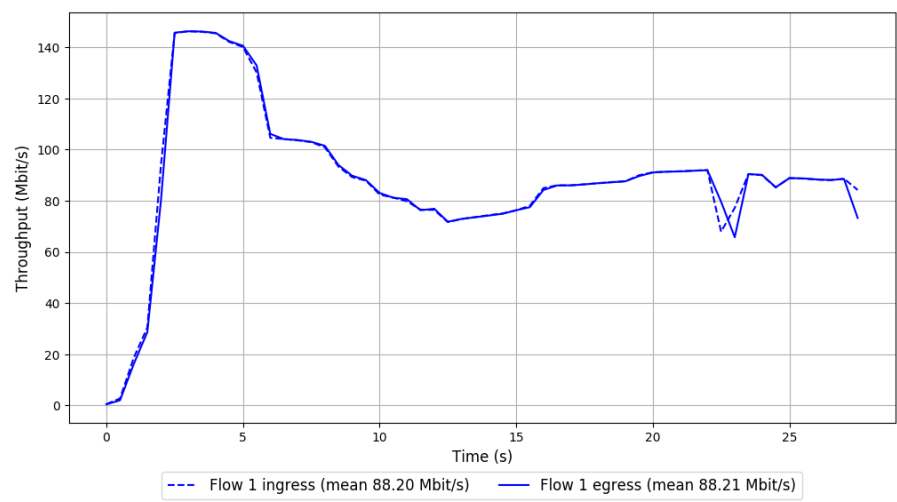
Average throughput: 88.21 Mbit/s

95th percentile per-packet one-way delay: 63.906 ms

Loss rate: 0.45%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-11 18:42:53

End at: 2017-12-11 18:43:23

# Below is generated by plot.py at 2017-12-11 21:35:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 82.98 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 0.06%

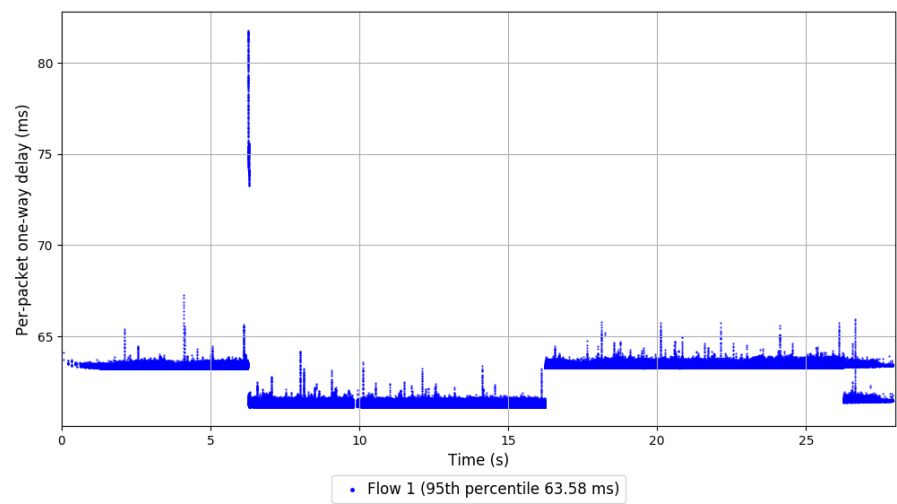
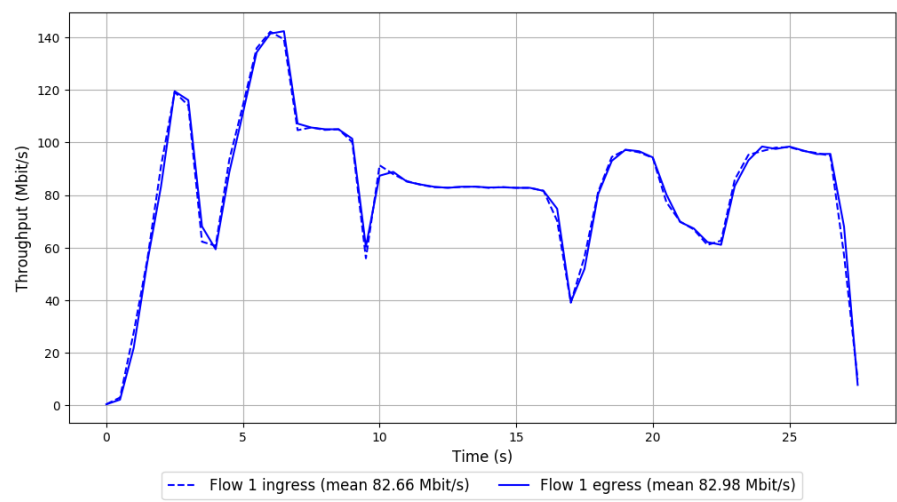
-- Flow 1:

Average throughput: 82.98 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 0.06%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-11 18:53:27

End at: 2017-12-11 18:53:57

# Below is generated by plot.py at 2017-12-11 21:35:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 63.804 ms

Loss rate: 0.42%

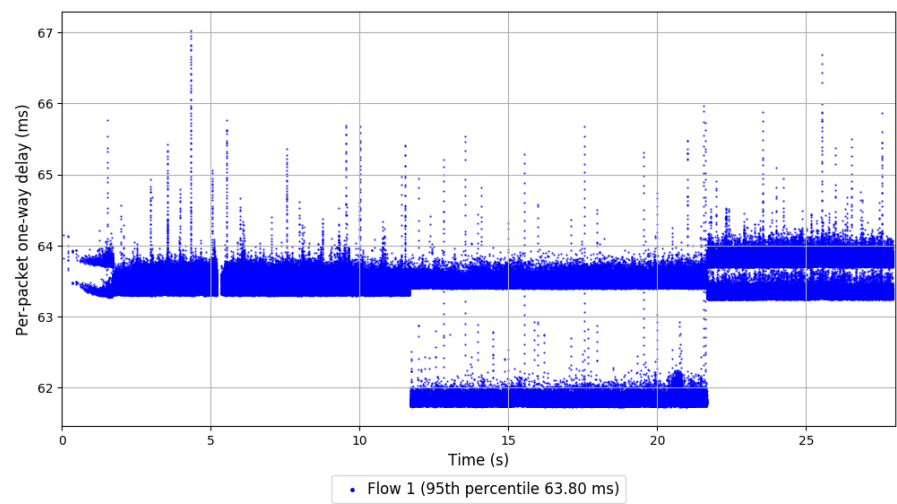
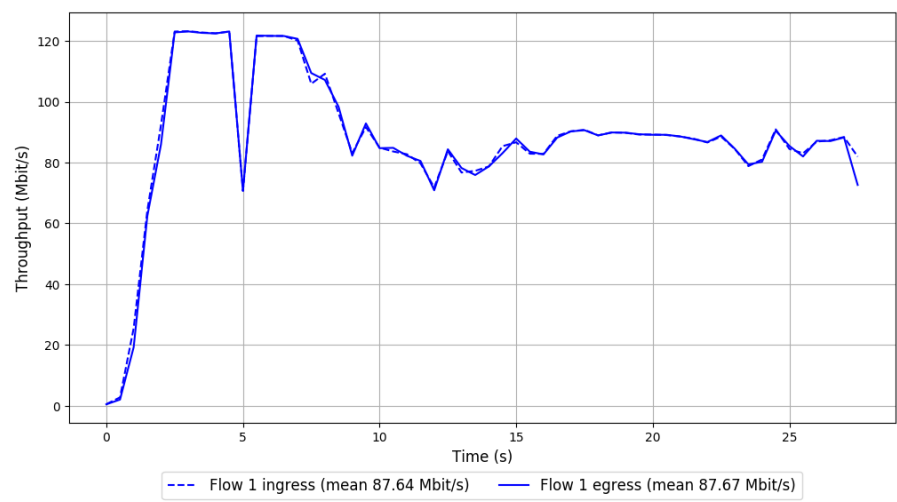
-- Flow 1:

Average throughput: 87.67 Mbit/s

95th percentile per-packet one-way delay: 63.804 ms

Loss rate: 0.42%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-12-11 19:04:00

End at: 2017-12-11 19:04:30

# Below is generated by plot.py at 2017-12-11 21:36:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.52 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.43%

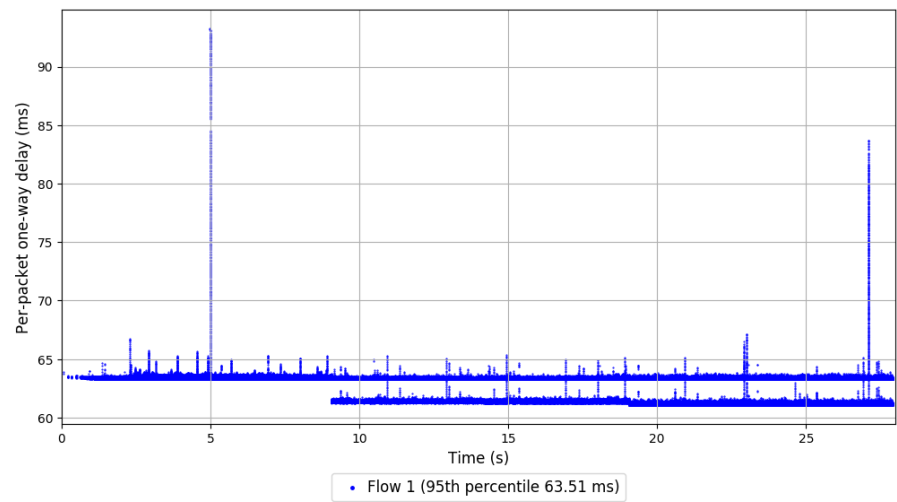
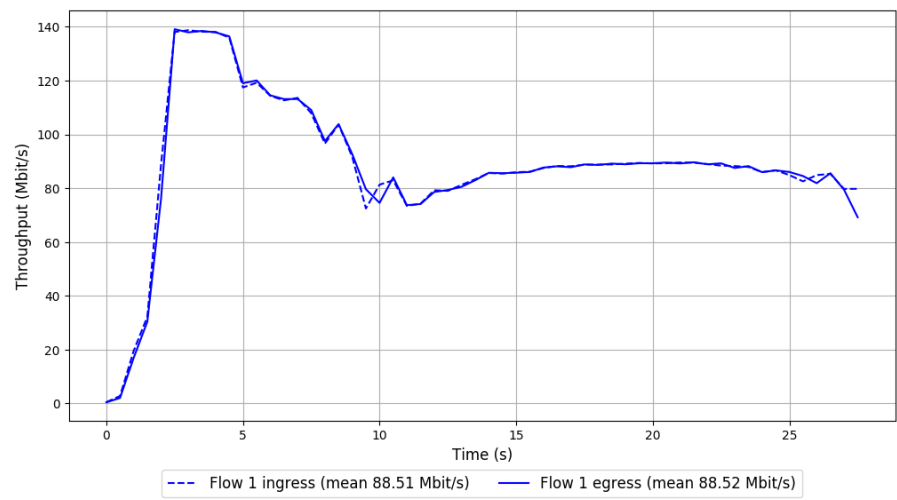
-- Flow 1:

Average throughput: 88.52 Mbit/s

95th percentile per-packet one-way delay: 63.508 ms

Loss rate: 0.43%

Run 10: Report of Copa — Data Link



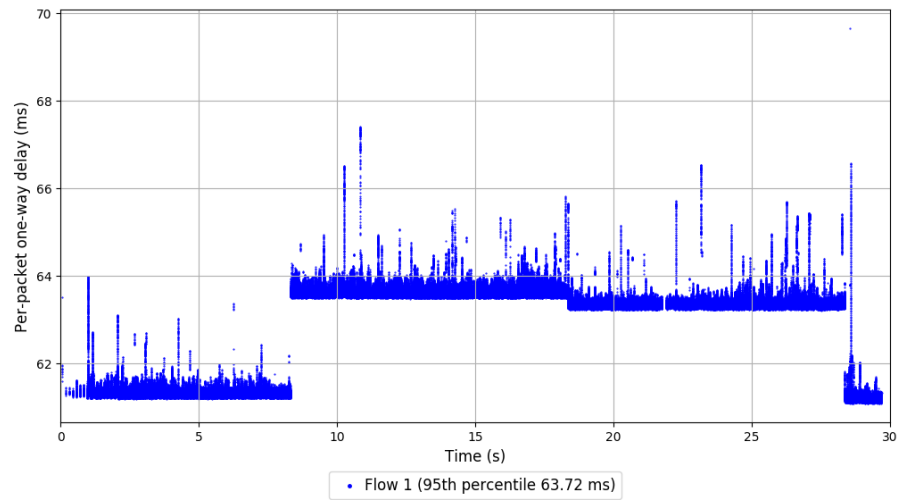
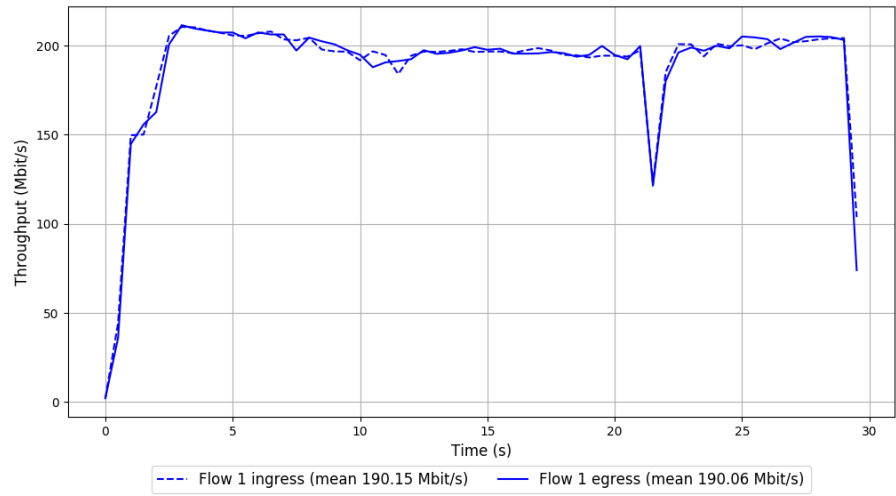
```
Run 1: Statistics of Indigo

Start at: 2017-12-11 17:27:12
End at: 2017-12-11 17:27:42

# Below is generated by plot.py at 2017-12-11 21:37:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.06 Mbit/s
95th percentile per-packet one-way delay: 63.724 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 190.06 Mbit/s
95th percentile per-packet one-way delay: 63.724 ms
Loss rate: 0.45%
```



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



Run 2: Statistics of Indigo

Start at: 2017-12-11 17:38:03

End at: 2017-12-11 17:38:33

# Below is generated by plot.py at 2017-12-11 21:37:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 177.15 Mbit/s

95th percentile per-packet one-way delay: 63.249 ms

Loss rate: 0.54%

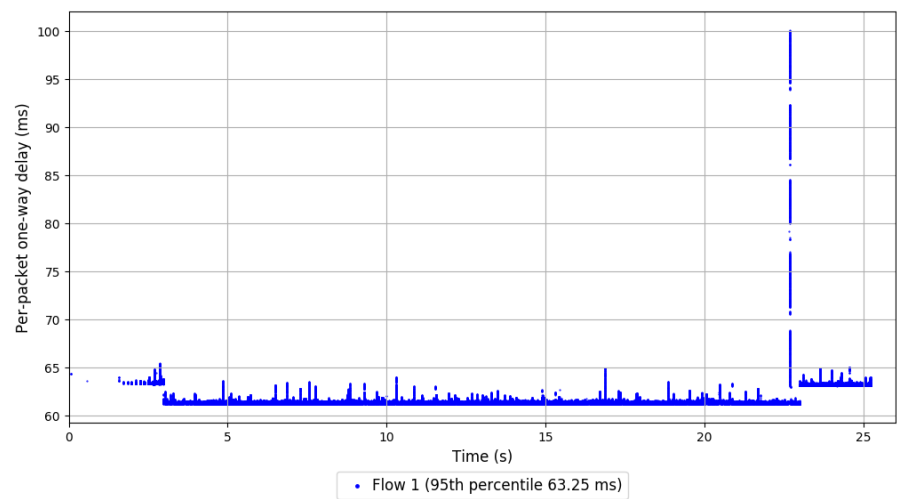
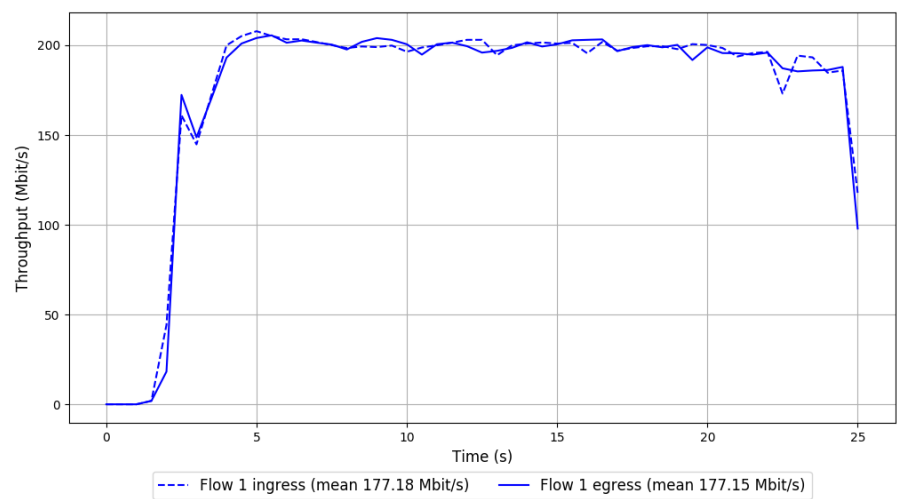
-- Flow 1:

Average throughput: 177.15 Mbit/s

95th percentile per-packet one-way delay: 63.249 ms

Loss rate: 0.54%

Run 2: Report of Indigo — Data Link

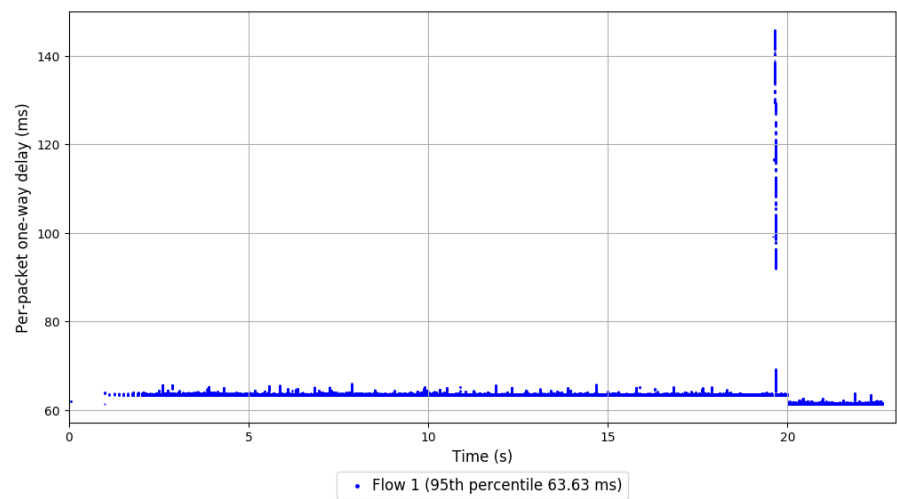
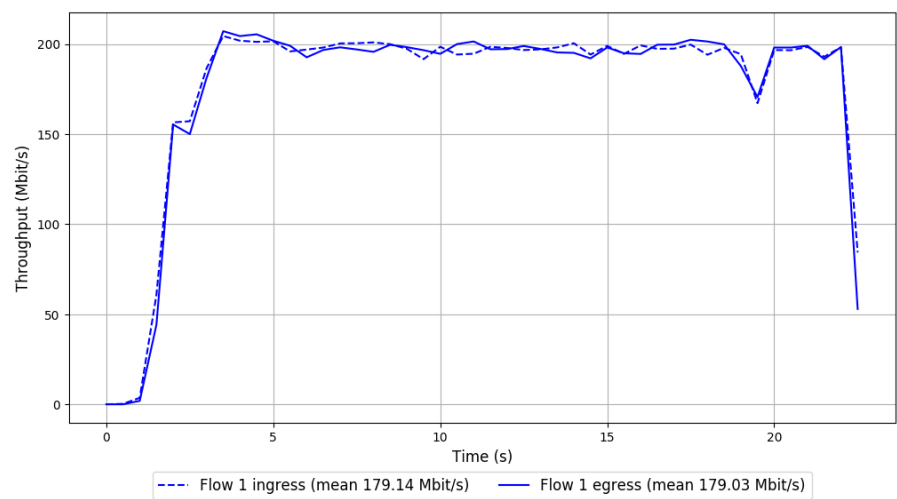


Run 3: Statistics of Indigo

Start at: 2017-12-11 17:48:44

End at: 2017-12-11 17:49:14

Run 3: Report of Indigo — Data Link

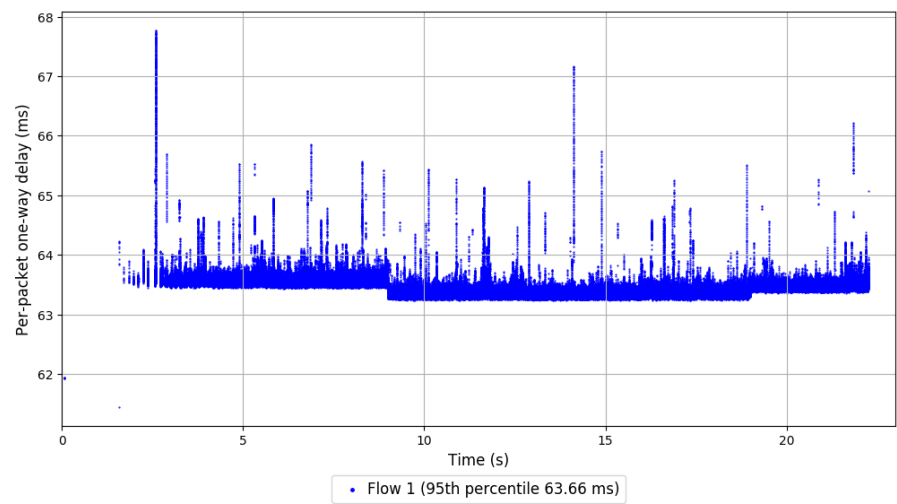
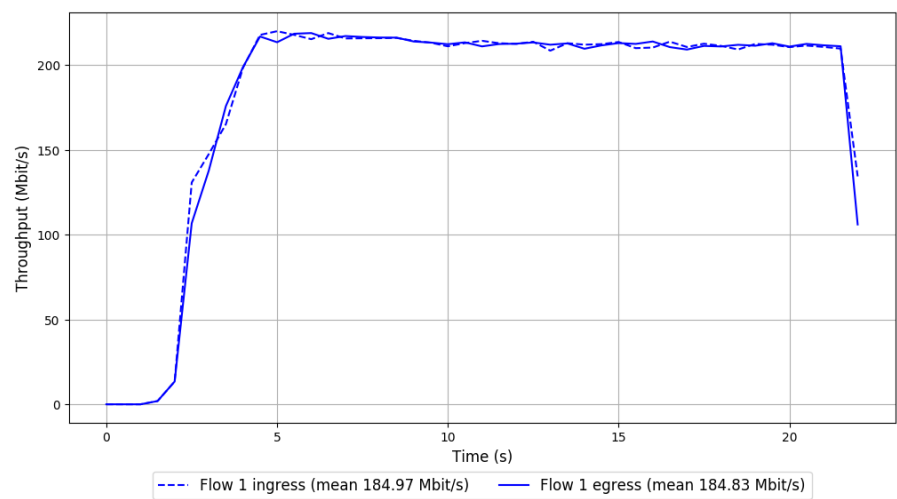


Run 4: Statistics of Indigo

Start at: 2017-12-11 17:59:24

End at: 2017-12-11 17:59:54

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-11 18:10:01

End at: 2017-12-11 18:10:31

# Below is generated by plot.py at 2017-12-11 21:38:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 175.35 Mbit/s

95th percentile per-packet one-way delay: 63.853 ms

Loss rate: 0.52%

-- Flow 1:

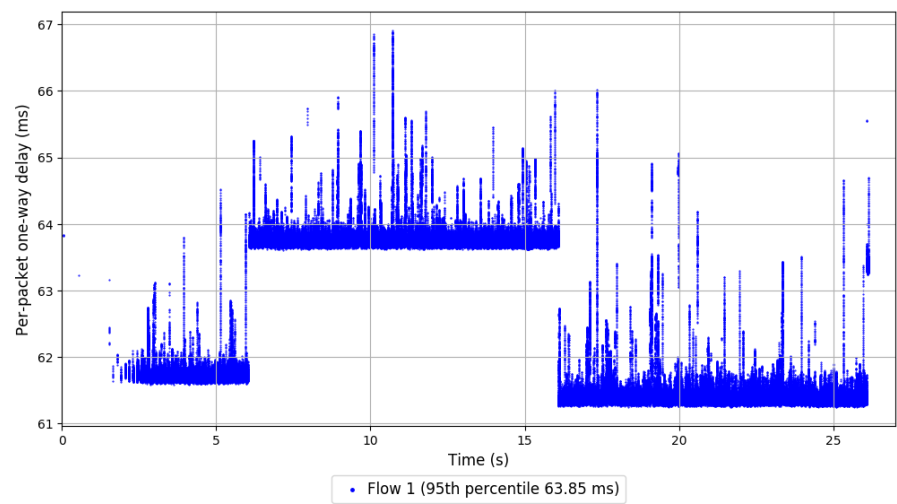
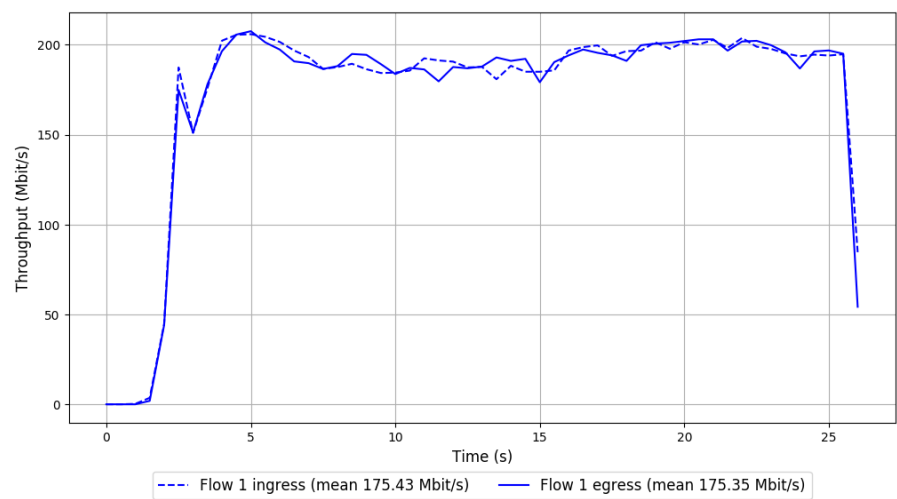
Average throughput: 175.35 Mbit/s

95th percentile per-packet one-way delay: 63.853 ms

Loss rate: 0.52%



Run 5: Report of Indigo — Data Link

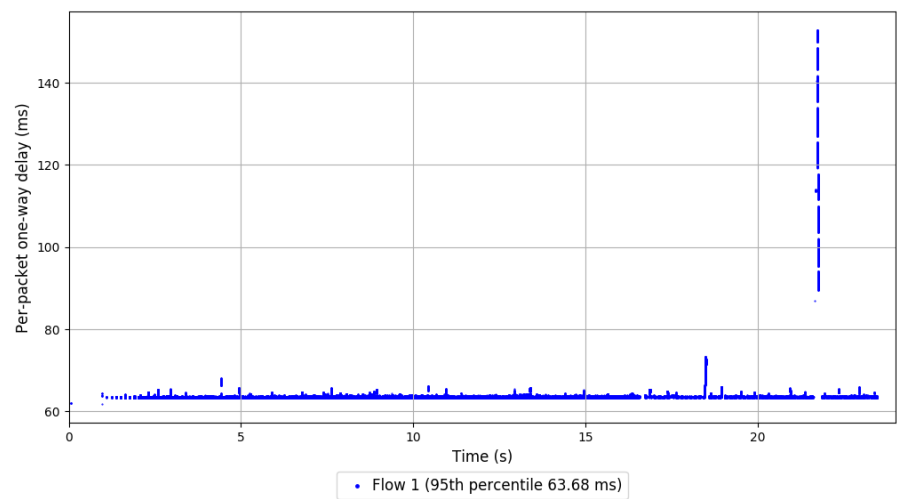
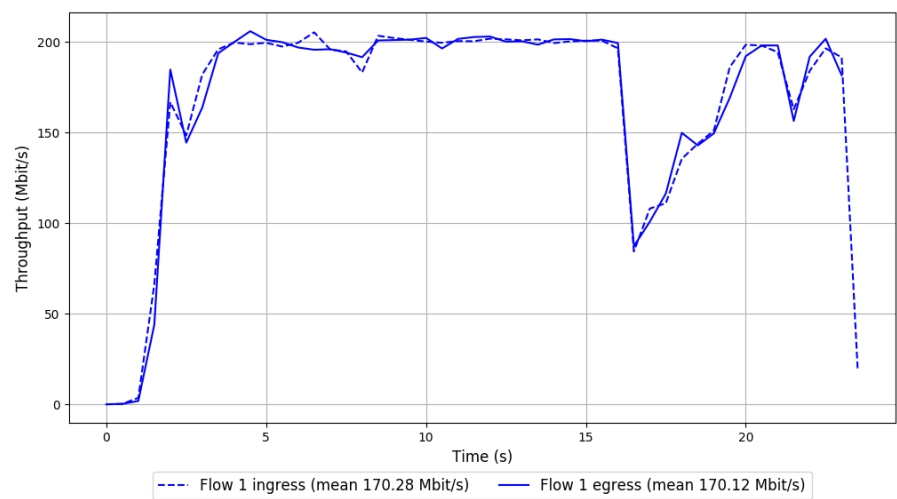


Run 6: Statistics of Indigo

Start at: 2017-12-11 18:20:41

End at: 2017-12-11 18:21:11

Run 6: Report of Indigo — Data Link

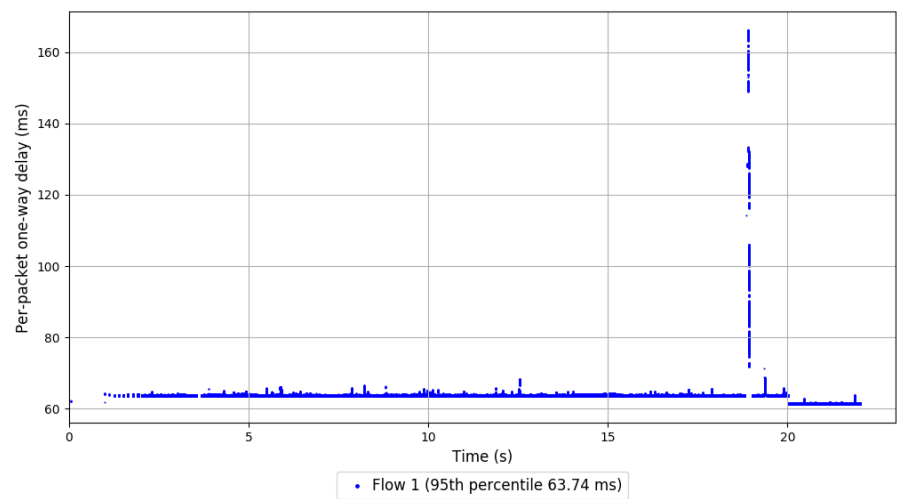
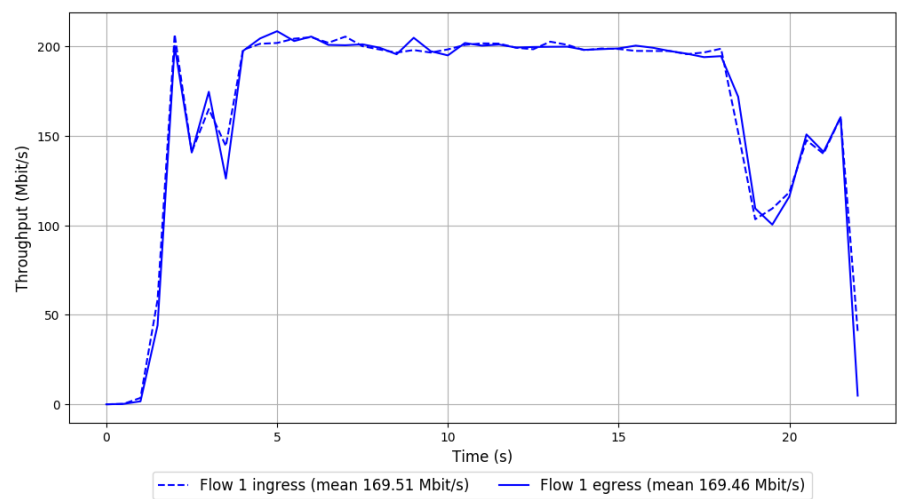


Run 7: Statistics of Indigo

Start at: 2017-12-11 18:31:23

End at: 2017-12-11 18:31:53

Run 7: Report of Indigo — Data Link

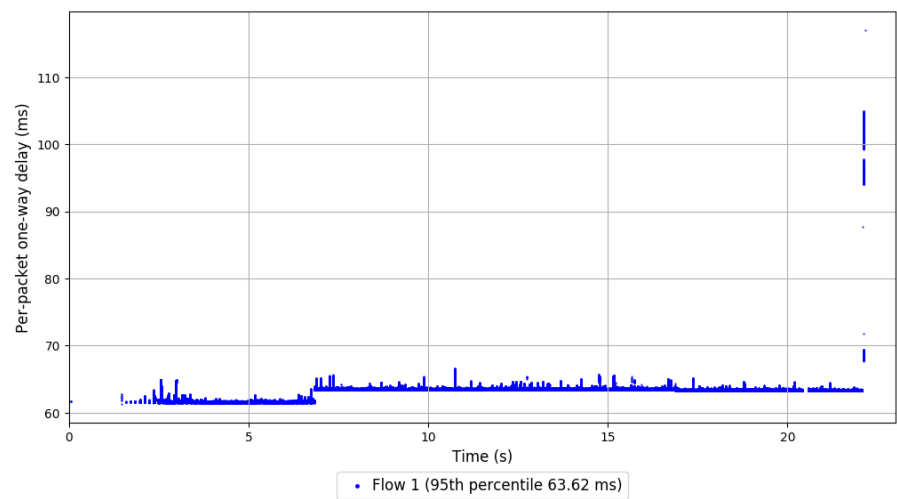
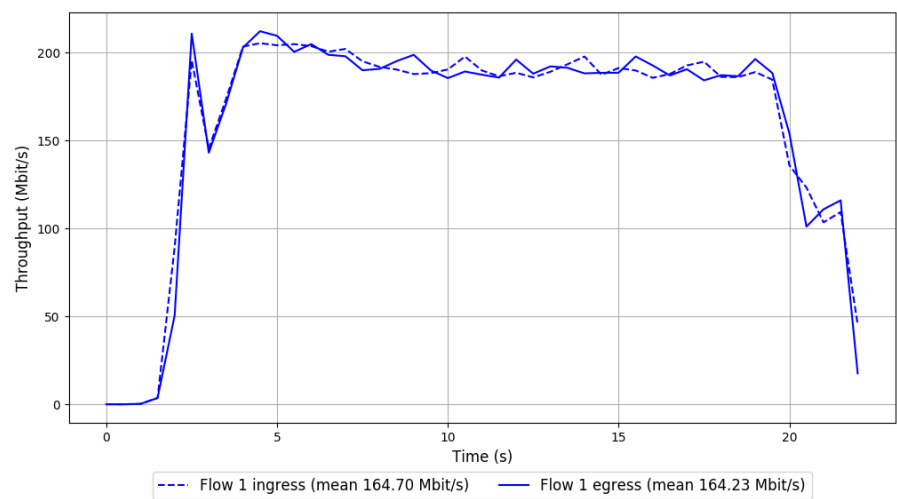


Run 8: Statistics of Indigo

Start at: 2017-12-11 18:42:06

End at: 2017-12-11 18:42:36

Run 8: Report of Indigo — Data Link



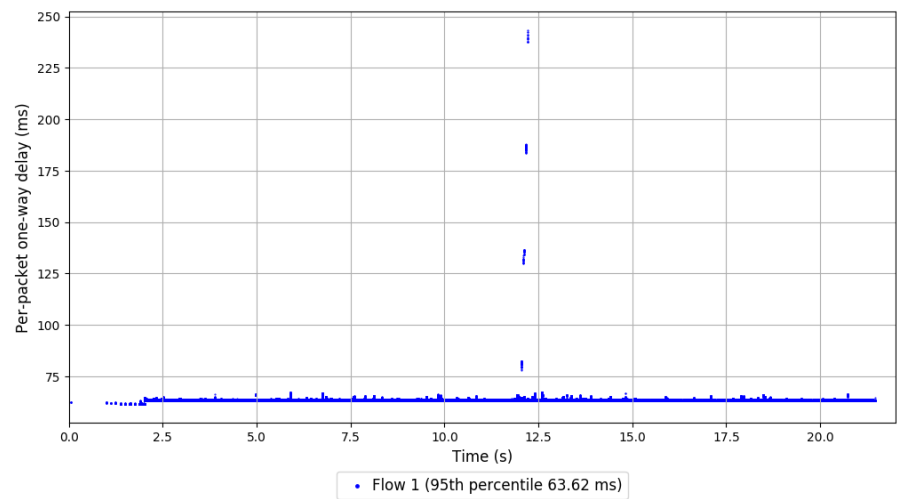
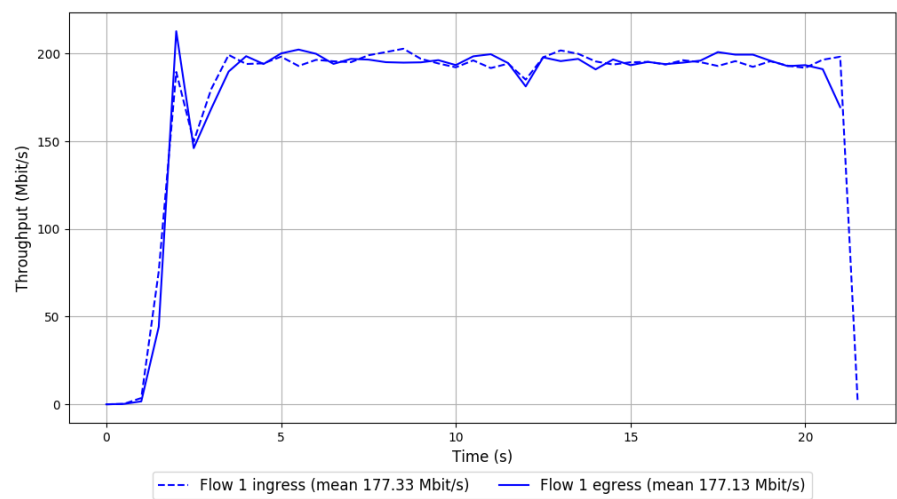
Run 9: Statistics of Indigo

Start at: 2017-12-11 18:52:40

End at: 2017-12-11 18:53:10



Run 9: Report of Indigo — Data Link

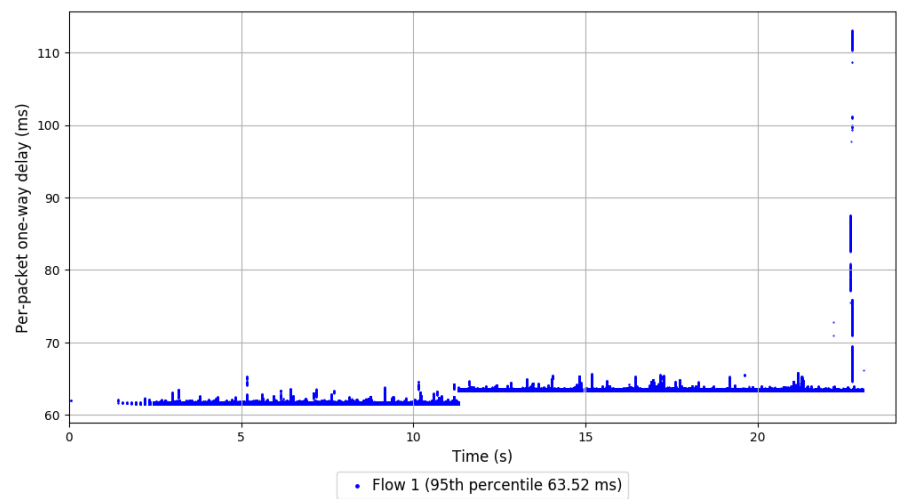
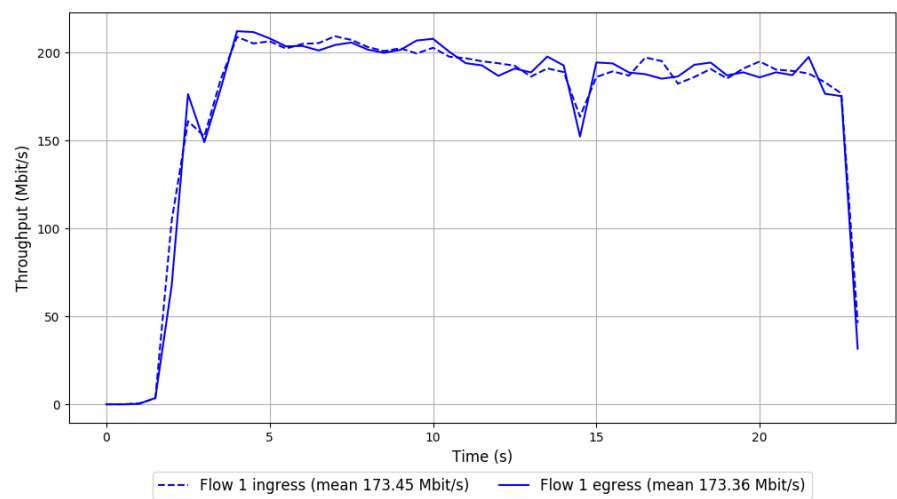


Run 10: Statistics of Indigo

Start at: 2017-12-11 19:03:13

End at: 2017-12-11 19:03:43

Run 10: Report of Indigo — Data Link

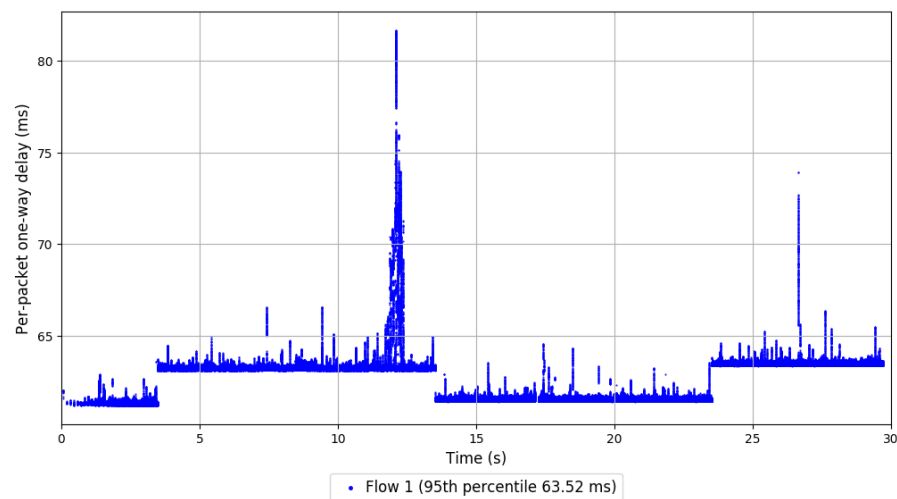
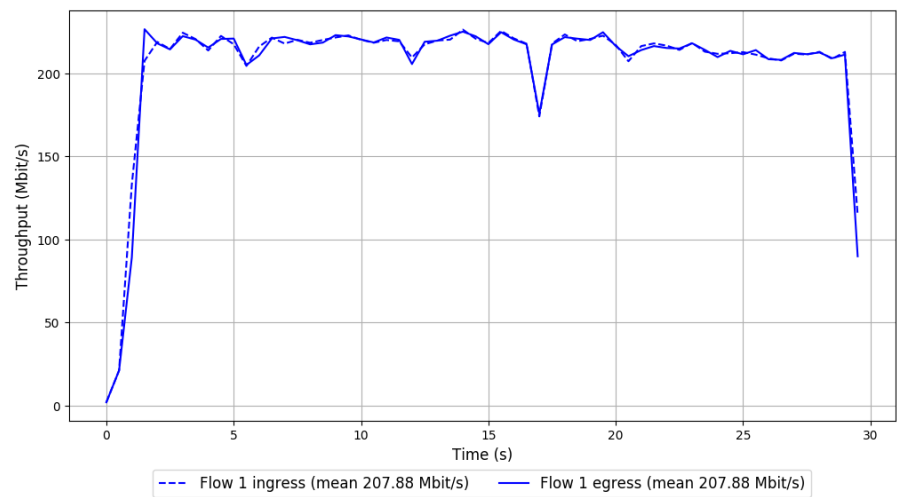


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 17:26:17
End at: 2017-12-11 17:26:47

# Below is generated by plot.py at 2017-12-11 21:41:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.88 Mbit/s
95th percentile per-packet one-way delay: 63.522 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 207.88 Mbit/s
95th percentile per-packet one-way delay: 63.522 ms
Loss rate: 0.42%
```

Run 1: Report of Indigo-calib — Data Link

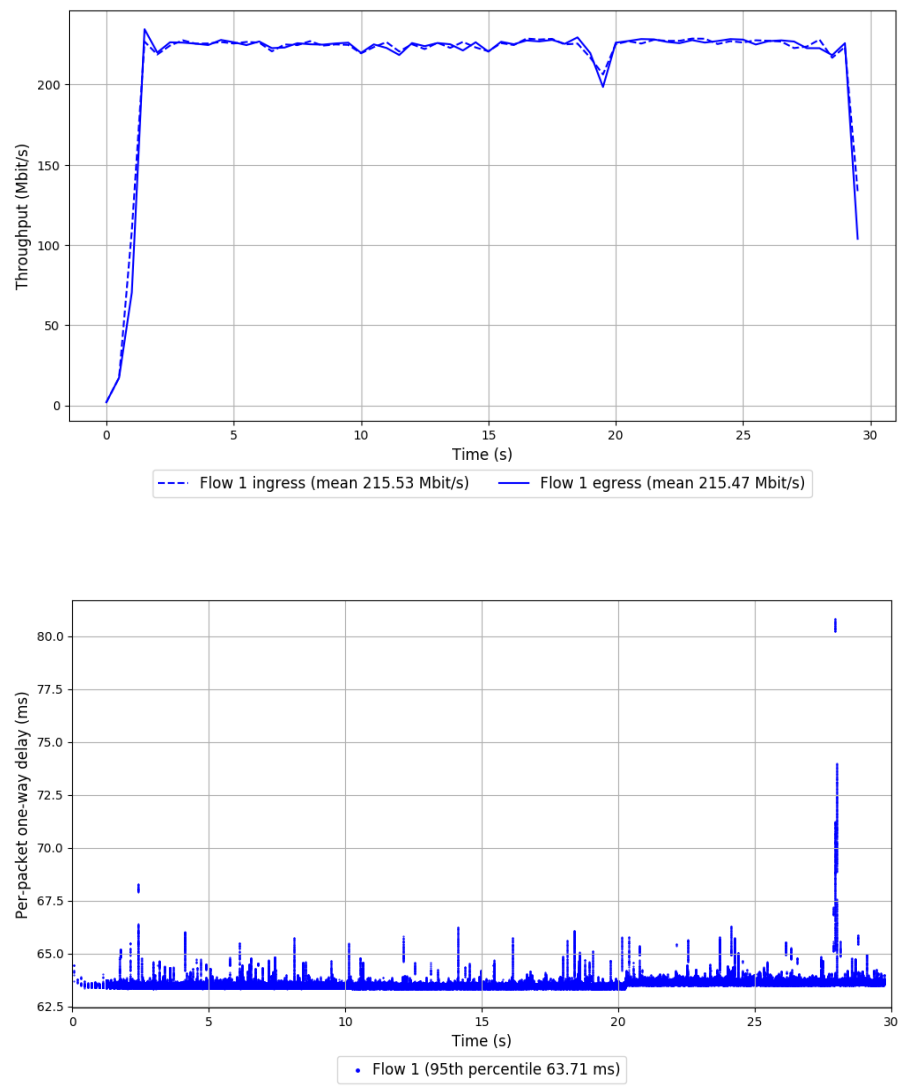


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 17:37:10
End at: 2017-12-11 17:37:40

# Below is generated by plot.py at 2017-12-11 21:41:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.47 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 215.47 Mbit/s
95th percentile per-packet one-way delay: 63.706 ms
Loss rate: 0.45%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 17:47:51

End at: 2017-12-11 17:48:21

# Below is generated by plot.py at 2017-12-11 21:41:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.42 Mbit/s

95th percentile per-packet one-way delay: 63.467 ms

Loss rate: 0.43%

-- Flow 1:

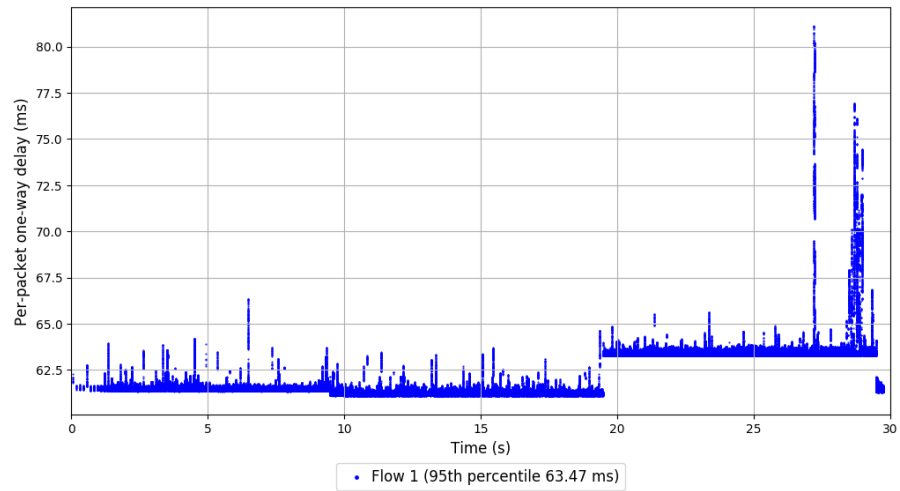
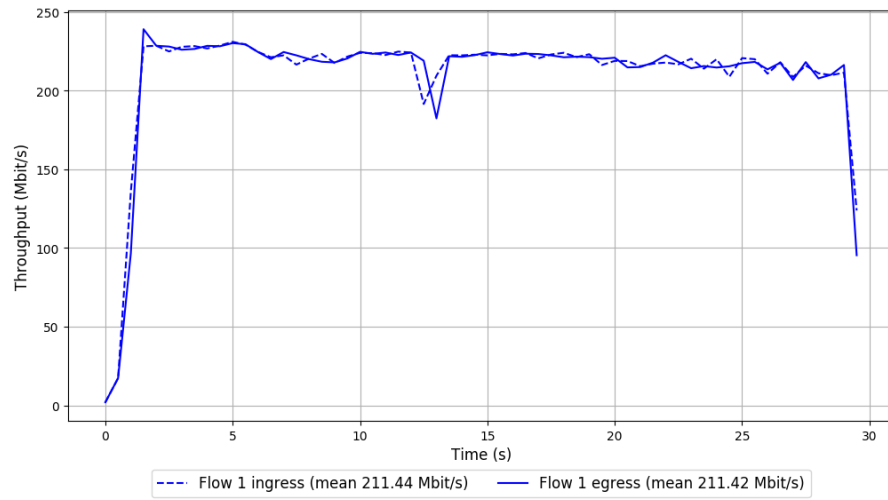
Average throughput: 211.42 Mbit/s

95th percentile per-packet one-way delay: 63.467 ms

Loss rate: 0.43%



### Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 17:58:32

End at: 2017-12-11 17:59:02

# Below is generated by plot.py at 2017-12-11 21:42:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.09 Mbit/s

95th percentile per-packet one-way delay: 63.537 ms

Loss rate: 0.45%

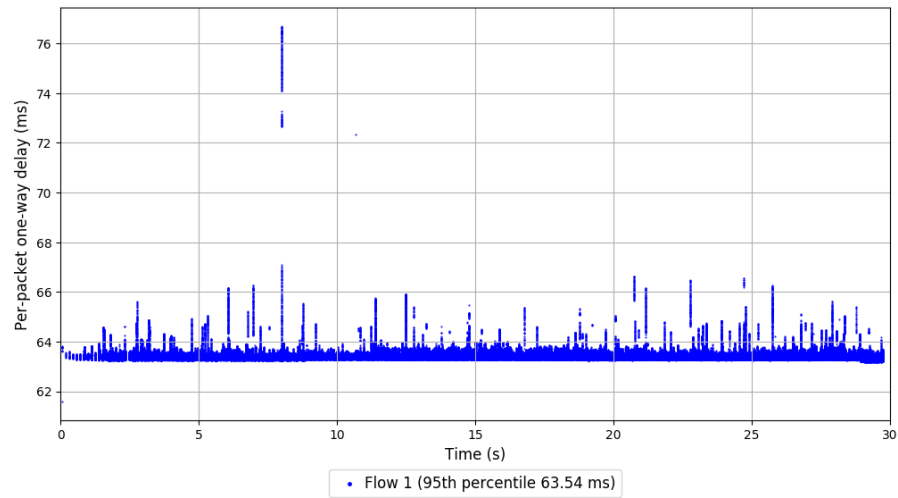
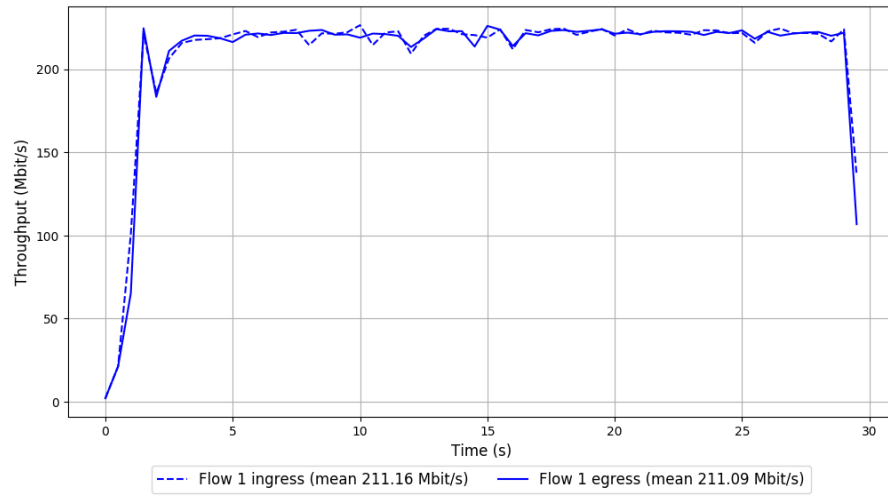
-- Flow 1:

Average throughput: 211.09 Mbit/s

95th percentile per-packet one-way delay: 63.537 ms

Loss rate: 0.45%

#### Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 18:09:09

End at: 2017-12-11 18:09:39

# Below is generated by plot.py at 2017-12-11 21:42:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.41 Mbit/s

95th percentile per-packet one-way delay: 63.551 ms

Loss rate: 0.44%

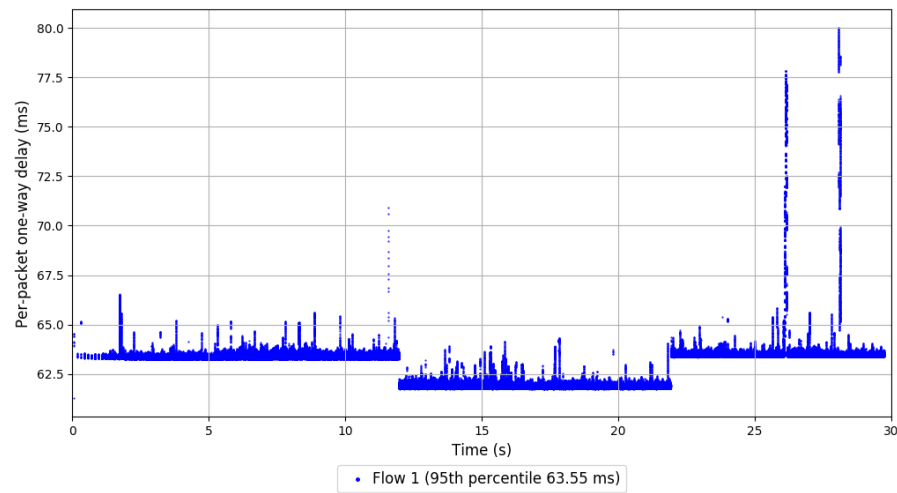
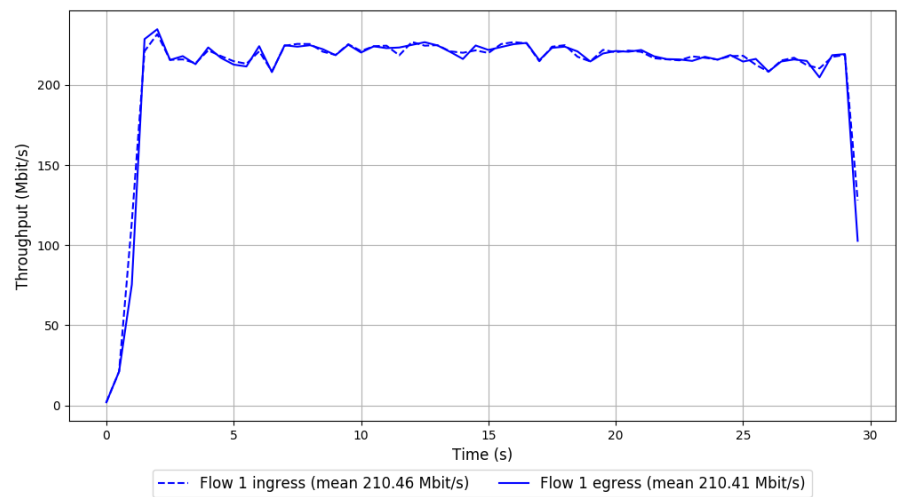
-- Flow 1:

Average throughput: 210.41 Mbit/s

95th percentile per-packet one-way delay: 63.551 ms

Loss rate: 0.44%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 18:19:49

End at: 2017-12-11 18:20:19

# Below is generated by plot.py at 2017-12-11 21:42:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.21 Mbit/s

95th percentile per-packet one-way delay: 62.006 ms

Loss rate: 0.43%

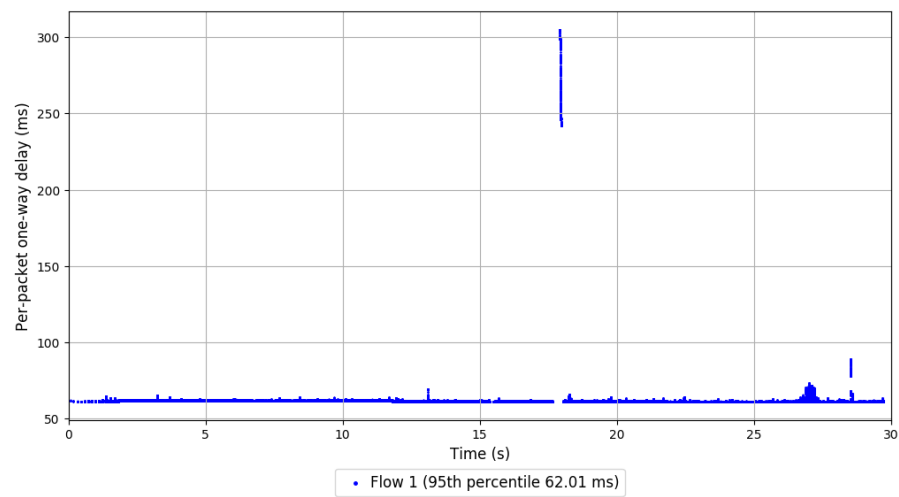
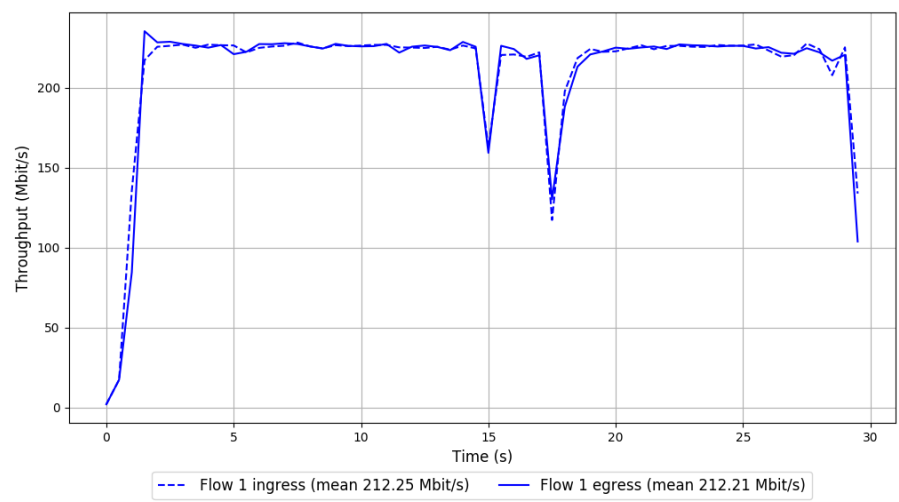
-- Flow 1:

Average throughput: 212.21 Mbit/s

95th percentile per-packet one-way delay: 62.006 ms

Loss rate: 0.43%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 18:30:30

End at: 2017-12-11 18:31:00

# Below is generated by plot.py at 2017-12-11 21:42:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.20 Mbit/s

95th percentile per-packet one-way delay: 63.565 ms

Loss rate: 0.43%

-- Flow 1:

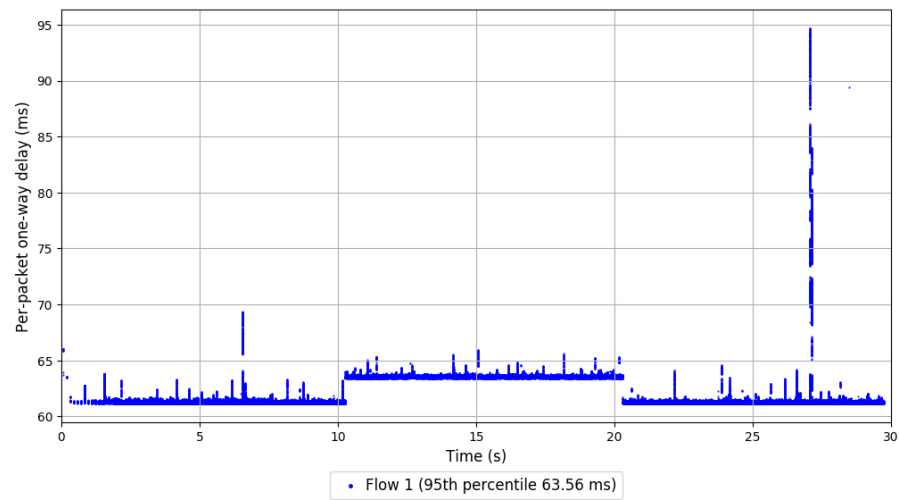
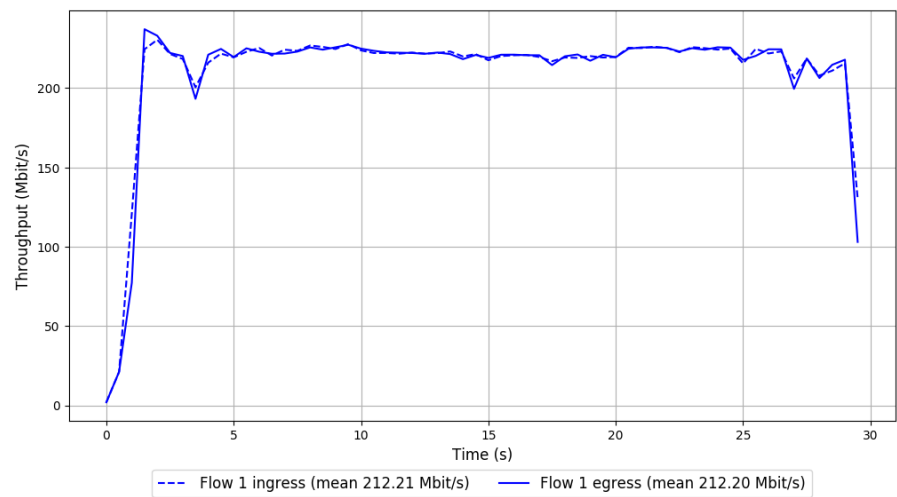
Average throughput: 212.20 Mbit/s

95th percentile per-packet one-way delay: 63.565 ms

Loss rate: 0.43%



Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 18:41:13

End at: 2017-12-11 18:41:43

# Below is generated by plot.py at 2017-12-11 21:42:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 212.14 Mbit/s

95th percentile per-packet one-way delay: 63.970 ms

Loss rate: 0.45%

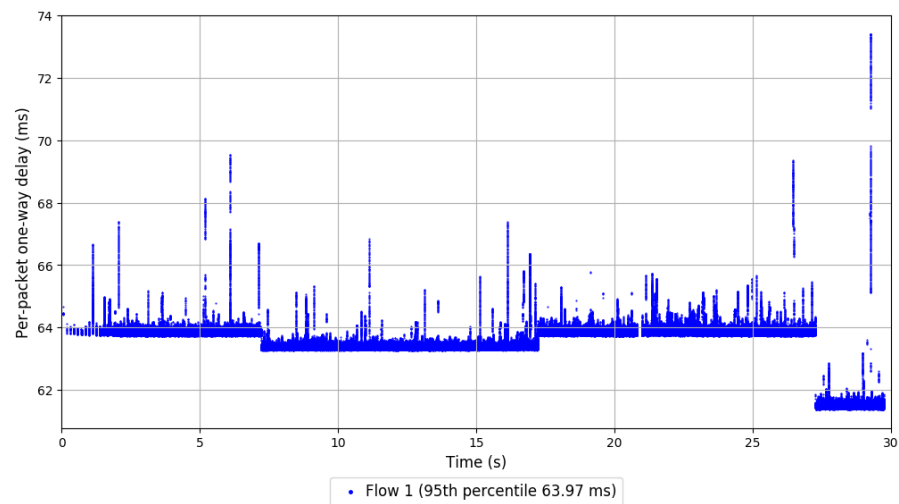
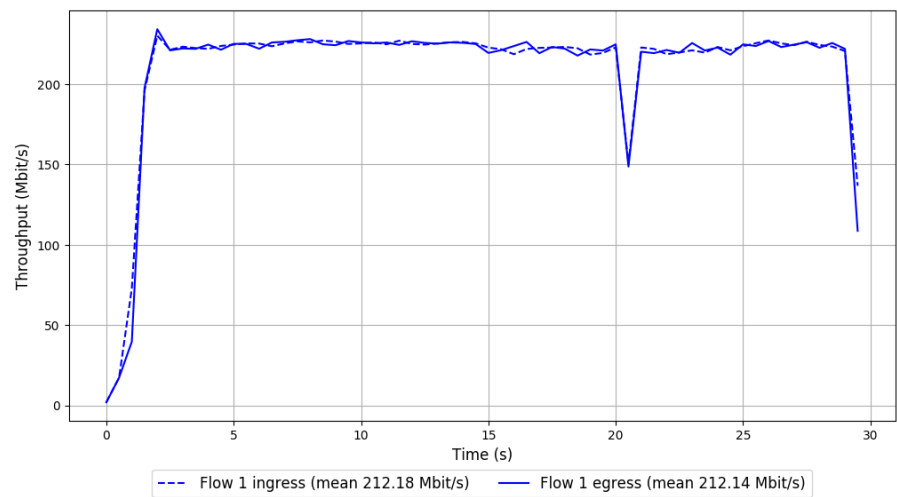
-- Flow 1:

Average throughput: 212.14 Mbit/s

95th percentile per-packet one-way delay: 63.970 ms

Loss rate: 0.45%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 18:51:48

End at: 2017-12-11 18:52:18

# Below is generated by plot.py at 2017-12-11 21:42:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 202.92 Mbit/s

95th percentile per-packet one-way delay: 64.118 ms

Loss rate: 0.45%

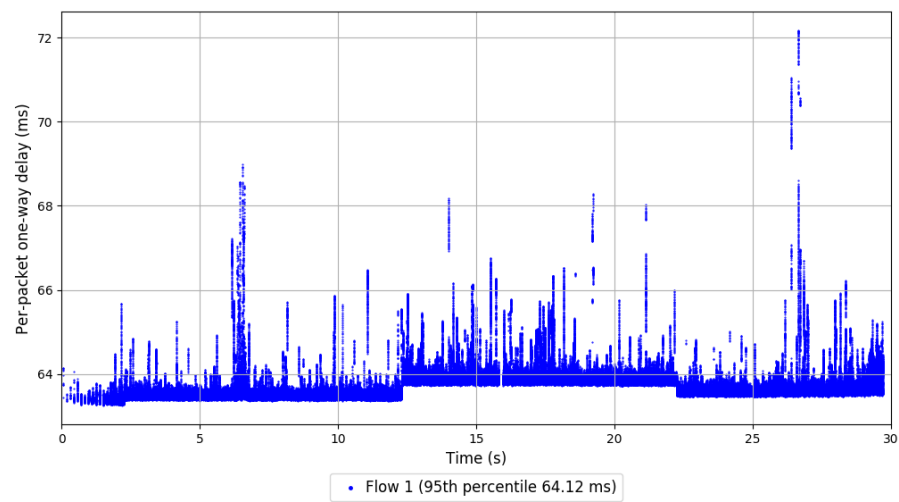
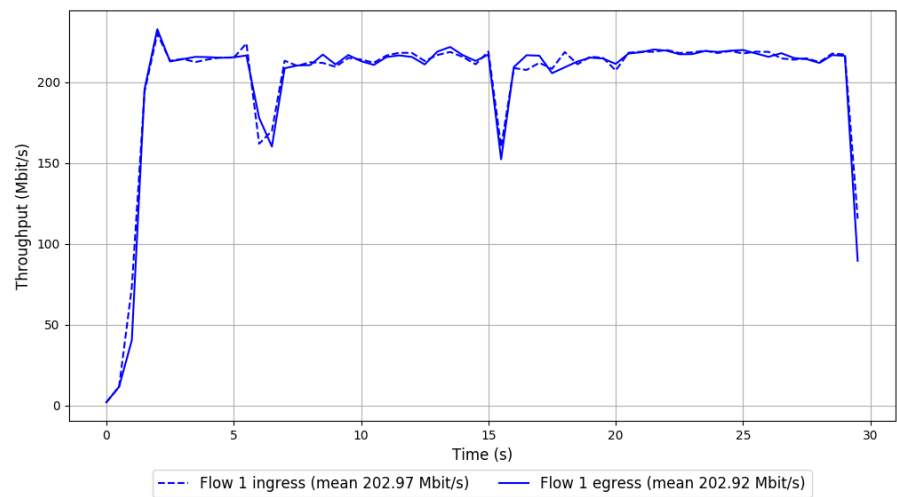
-- Flow 1:

Average throughput: 202.92 Mbit/s

95th percentile per-packet one-way delay: 64.118 ms

Loss rate: 0.45%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 19:02:20

End at: 2017-12-11 19:02:50

# Below is generated by plot.py at 2017-12-11 21:42:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 213.16 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.44%

-- Flow 1:

Average throughput: 213.16 Mbit/s

95th percentile per-packet one-way delay: 63.680 ms

Loss rate: 0.44%

Run 10: Report of Indigo-calib — Data Link

