

Pantheon Report

Generated at 2017-11-21 12:42:30 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

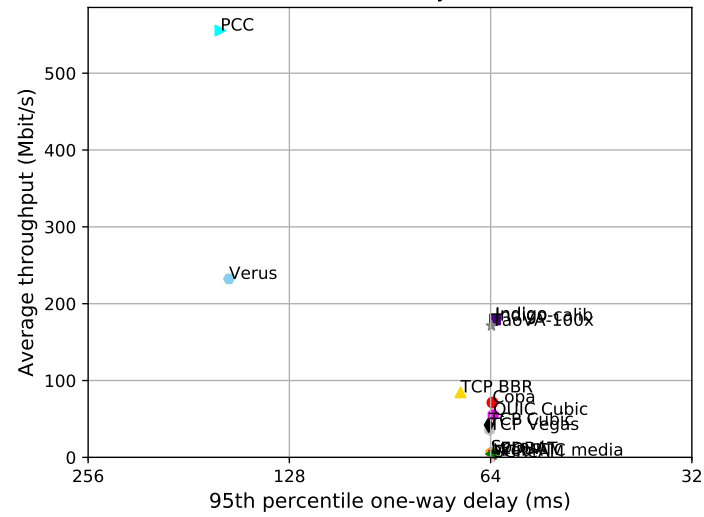
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

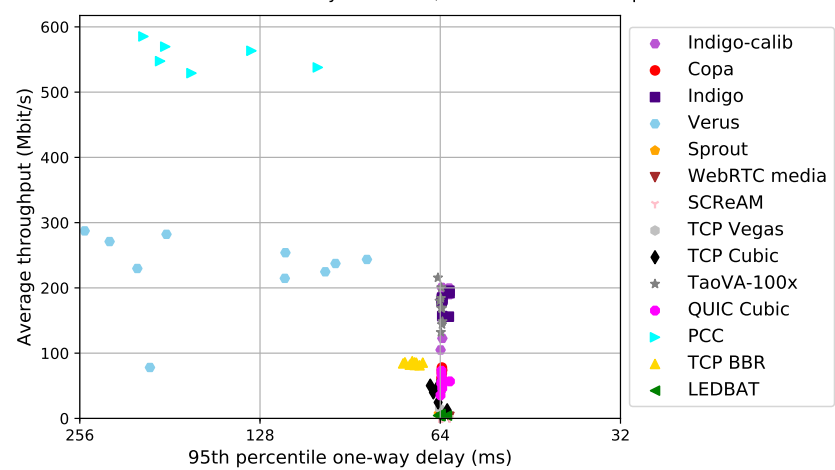
Git summary:

```
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	84.52	71.01	0.03
TCP Cubic	9	42.13	64.41	0.02
LEDBAT	10	4.40	63.95	0.35
PCC	6	555.47	162.34	0.99
QUIC Cubic	10	55.35	63.45	0.01
SCReAM	10	0.22	63.41	0.00
WebRTC media	10	2.27	63.29	0.04
Sprout	10	6.54	63.97	0.13
TaoVA-100x	10	171.22	63.82	0.00
TCP Vegas	3	35.76	64.23	0.01
Verus	10	232.26	157.62	0.69
Copa	5	71.35	63.61	0.01
Indigo	10	179.49	63.03	0.00
Indigo-calib	10	177.85	63.06	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-11-21 09:37:19

End at: 2017-11-21 09:37:49

Below is generated by plot.py at 2017-11-21 12:05:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 71.954 ms

Loss rate: 0.00%

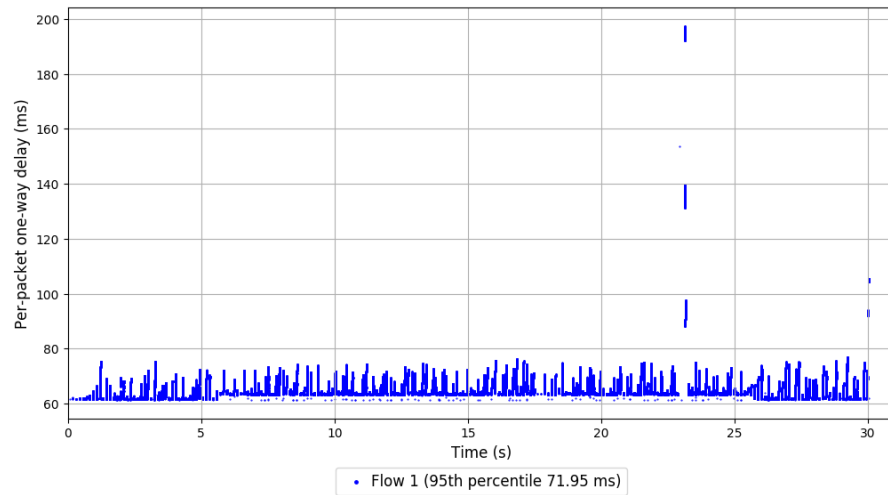
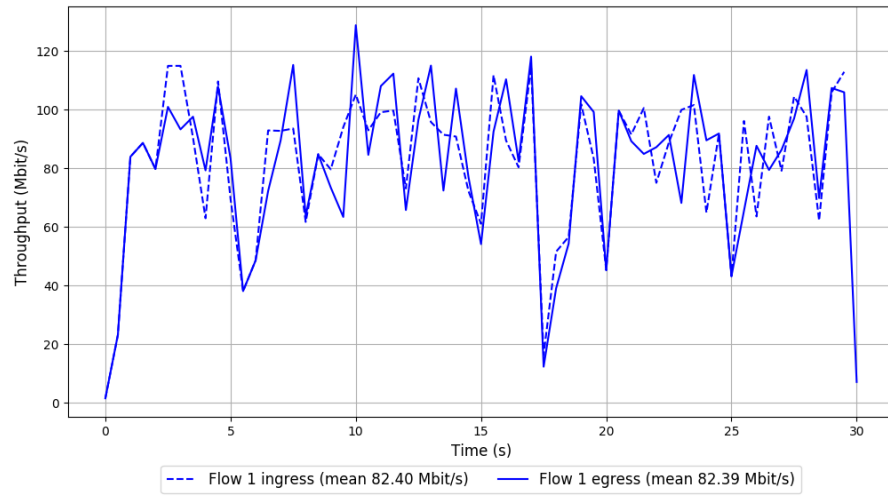
-- Flow 1:

Average throughput: 82.39 Mbit/s

95th percentile per-packet one-way delay: 71.954 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 09:47:46

End at: 2017-11-21 09:48:16

Below is generated by plot.py at 2017-11-21 12:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 70.159 ms

Loss rate: 0.08%

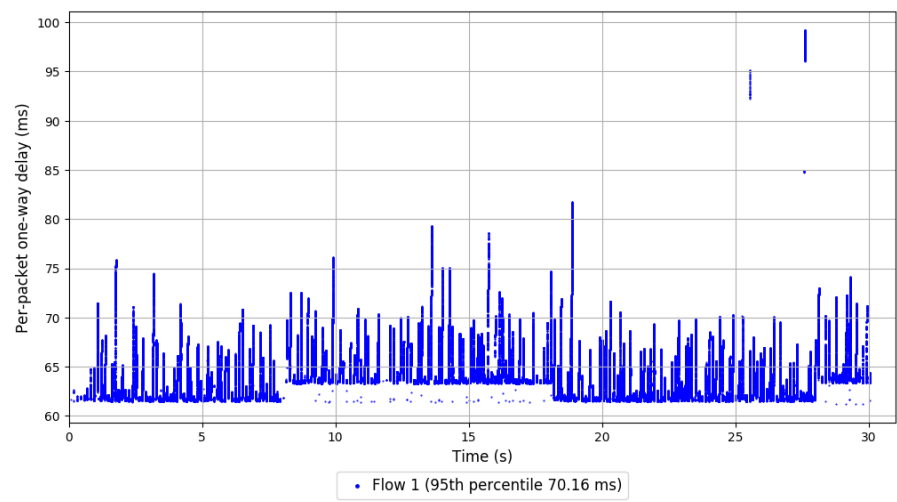
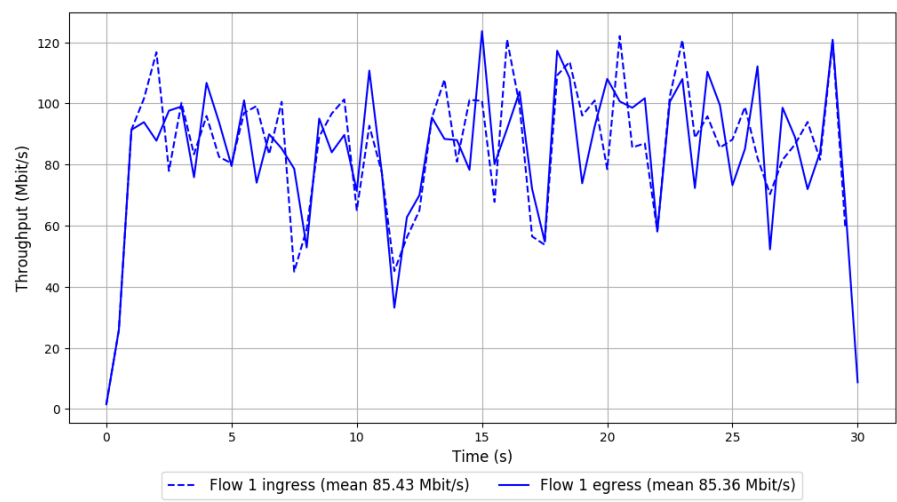
-- Flow 1:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 70.159 ms

Loss rate: 0.08%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 09:58:04

End at: 2017-11-21 09:58:34

Below is generated by plot.py at 2017-11-21 12:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.38 Mbit/s

95th percentile per-packet one-way delay: 69.312 ms

Loss rate: 0.05%

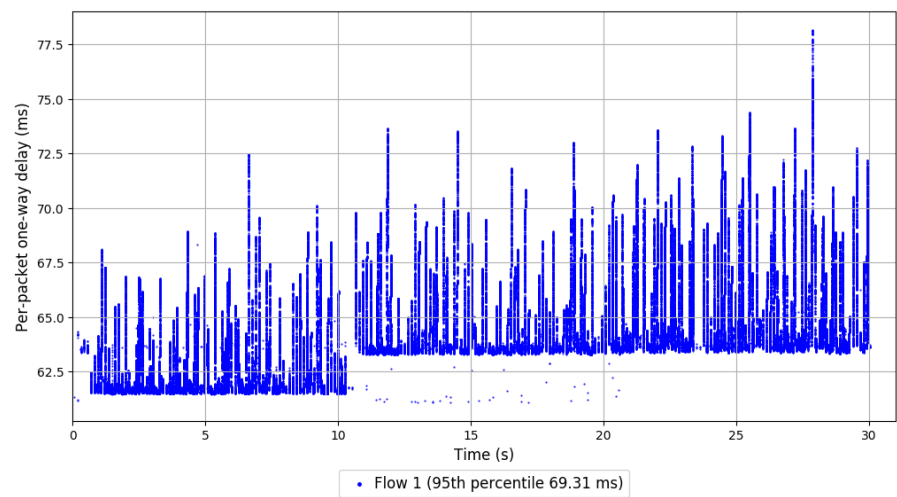
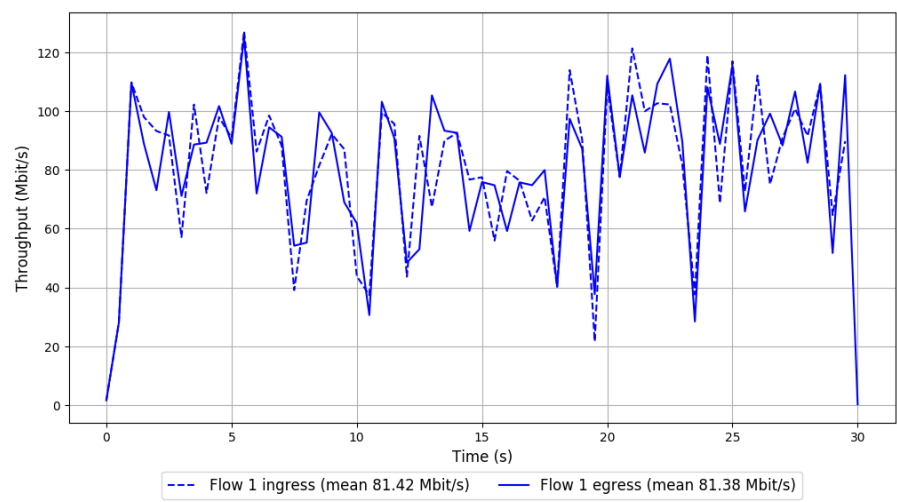
-- Flow 1:

Average throughput: 81.38 Mbit/s

95th percentile per-packet one-way delay: 69.312 ms

Loss rate: 0.05%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 10:08:23

End at: 2017-11-21 10:08:53

Below is generated by plot.py at 2017-11-21 12:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.83 Mbit/s

95th percentile per-packet one-way delay: 70.628 ms

Loss rate: 0.01%

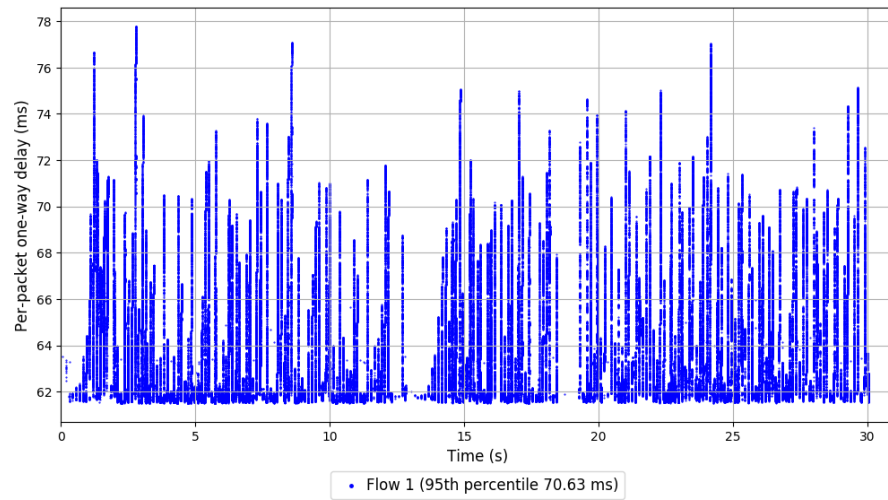
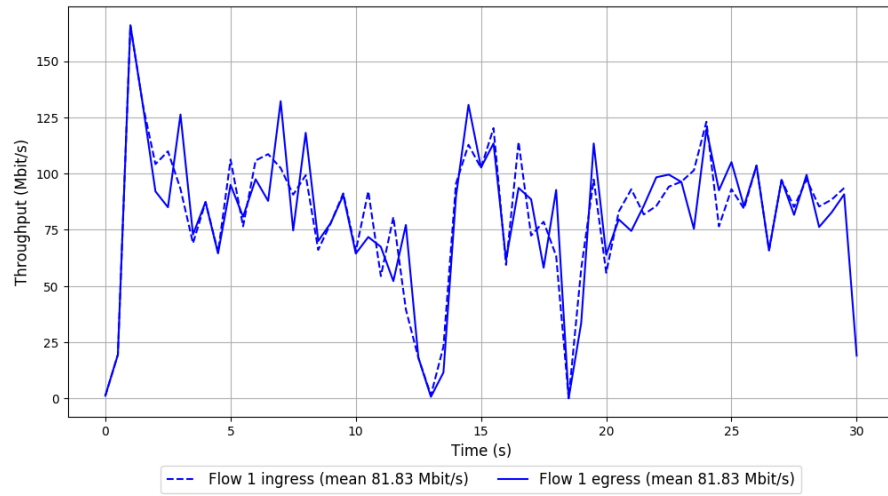
-- Flow 1:

Average throughput: 81.83 Mbit/s

95th percentile per-packet one-way delay: 70.628 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 10:18:59

End at: 2017-11-21 10:19:29

Below is generated by plot.py at 2017-11-21 12:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 73.817 ms

Loss rate: 0.02%

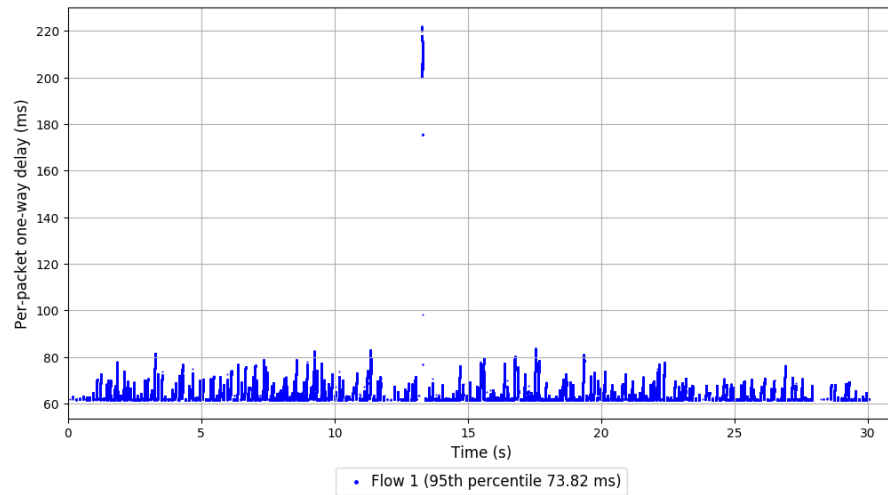
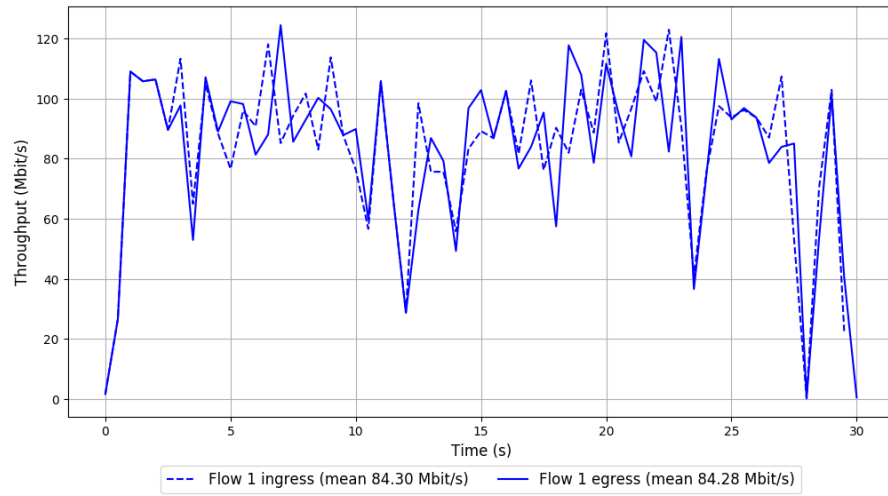
-- Flow 1:

Average throughput: 84.28 Mbit/s

95th percentile per-packet one-way delay: 73.817 ms

Loss rate: 0.02%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 10:29:25

End at: 2017-11-21 10:29:55

Below is generated by plot.py at 2017-11-21 12:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 68.456 ms

Loss rate: 0.03%

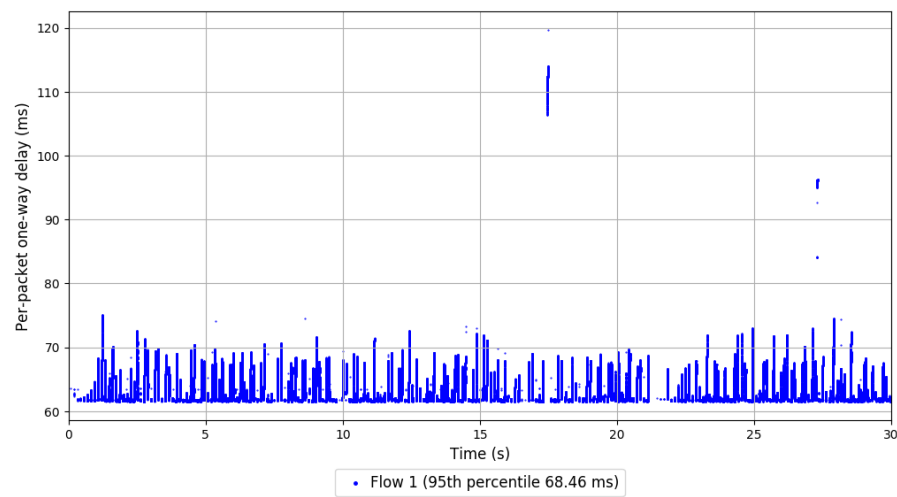
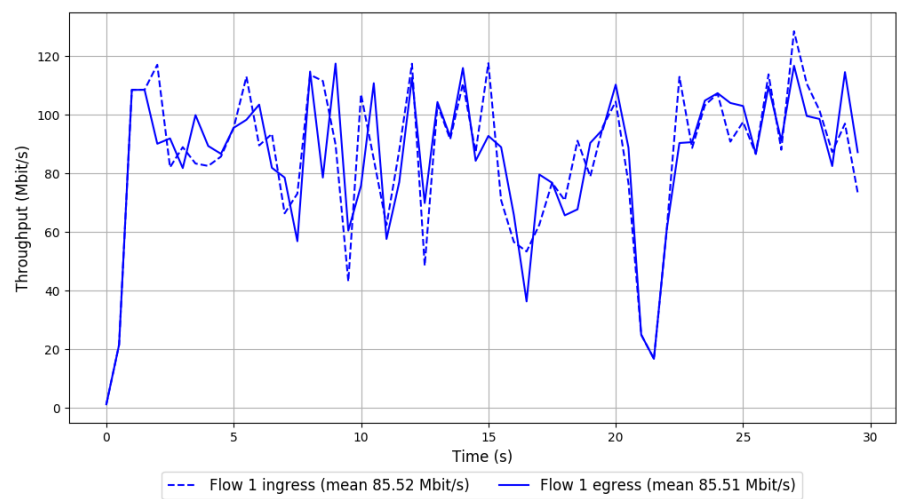
-- Flow 1:

Average throughput: 85.51 Mbit/s

95th percentile per-packet one-way delay: 68.456 ms

Loss rate: 0.03%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-21 10:39:59

End at: 2017-11-21 10:40:29

Below is generated by plot.py at 2017-11-21 12:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 71.285 ms

Loss rate: 0.01%

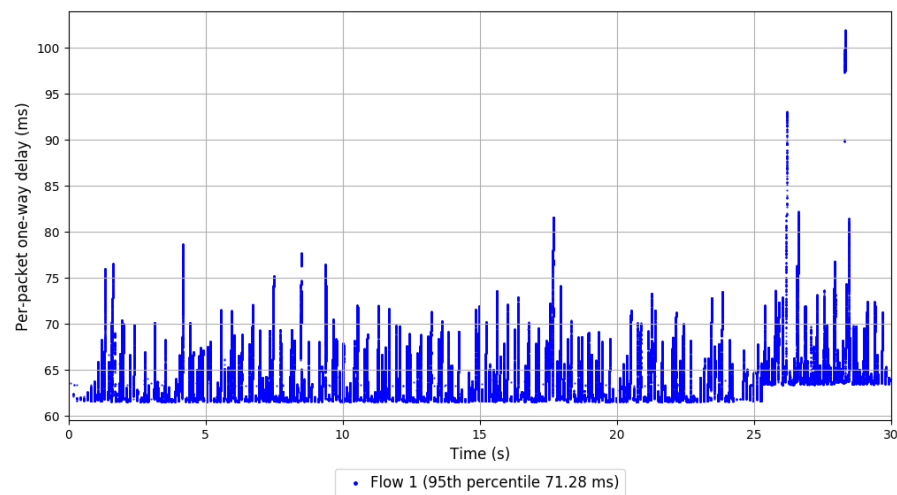
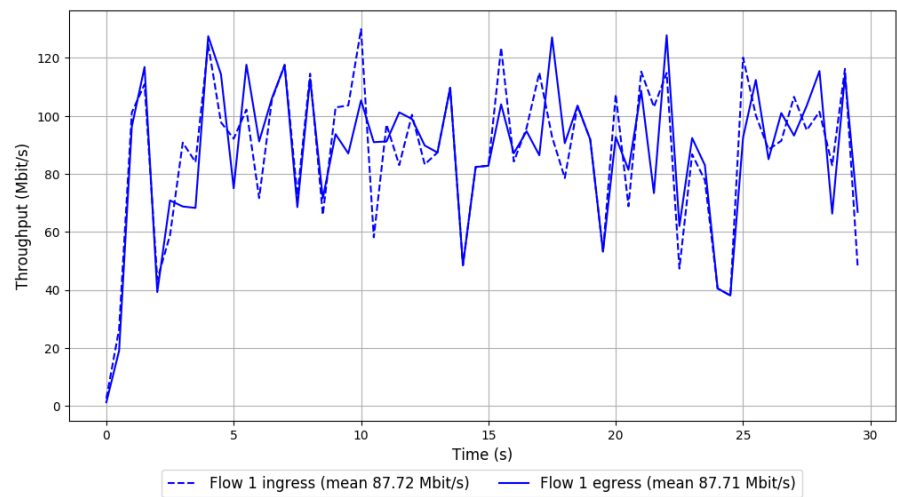
-- Flow 1:

Average throughput: 87.71 Mbit/s

95th percentile per-packet one-way delay: 71.285 ms

Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 10:50:11

End at: 2017-11-21 10:50:41

Below is generated by plot.py at 2017-11-21 12:05:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.82 Mbit/s

95th percentile per-packet one-way delay: 70.529 ms

Loss rate: 0.12%

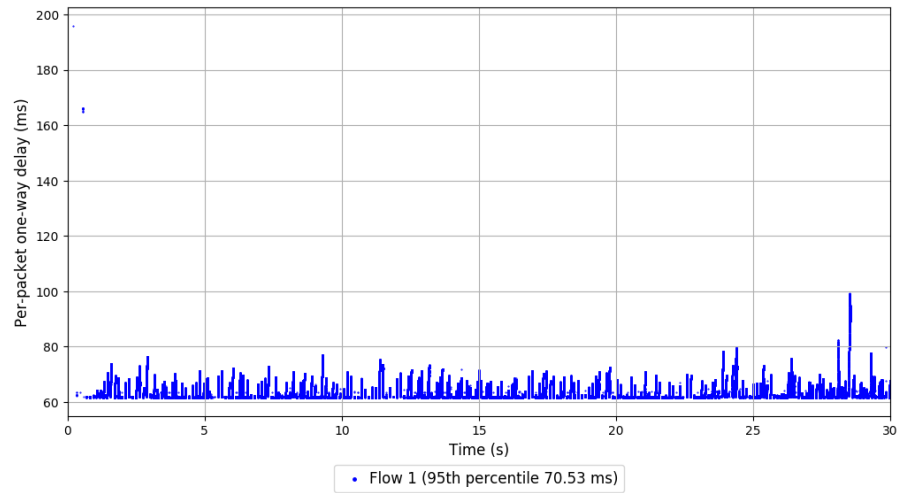
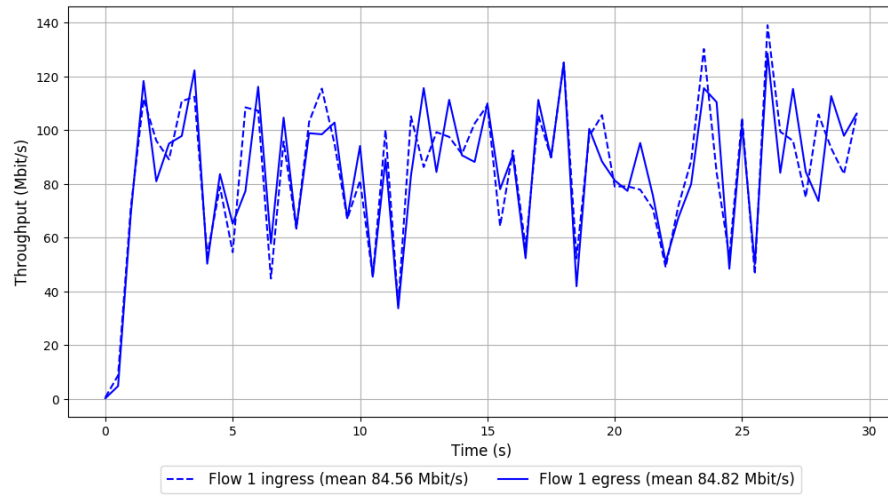
-- Flow 1:

Average throughput: 84.82 Mbit/s

95th percentile per-packet one-way delay: 70.529 ms

Loss rate: 0.12%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-21 11:00:12

End at: 2017-11-21 11:00:42

Below is generated by plot.py at 2017-11-21 12:06:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.85 Mbit/s

95th percentile per-packet one-way delay: 70.624 ms

Loss rate: 0.01%

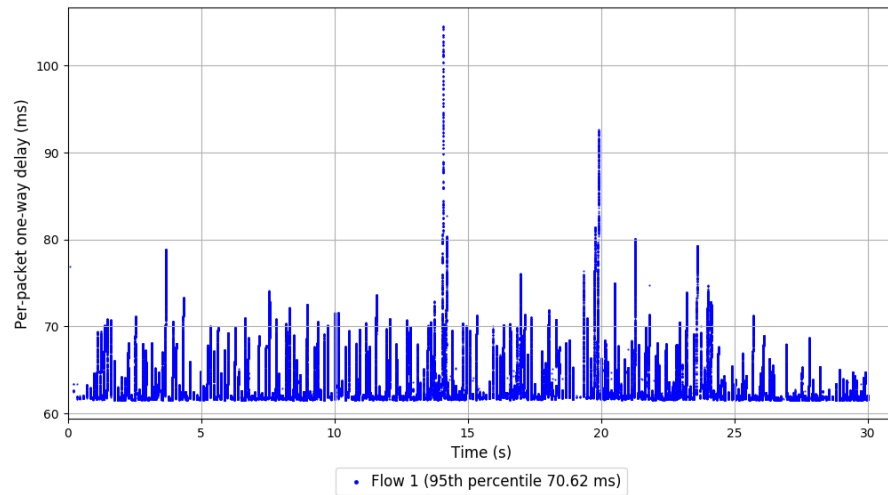
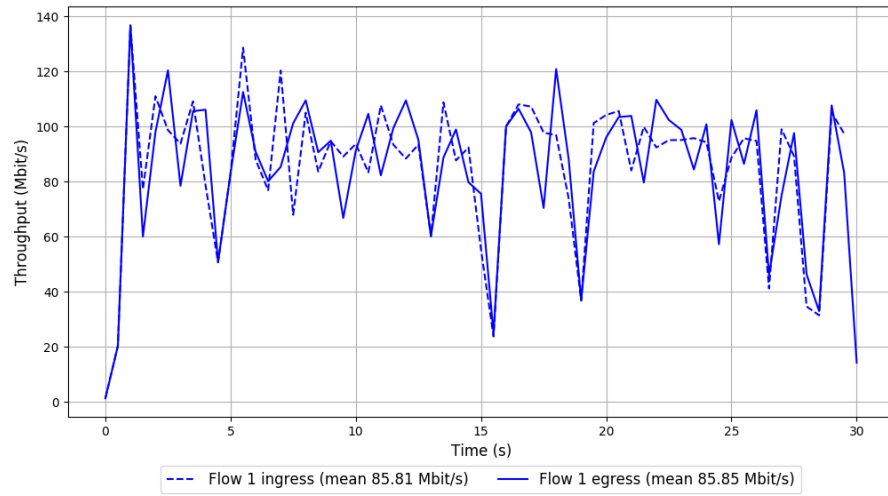
-- Flow 1:

Average throughput: 85.85 Mbit/s

95th percentile per-packet one-way delay: 70.624 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 11:10:42

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

Below is generated by plot.py at 2017-11-21 12:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 73.315 ms

Loss rate: 0.01%

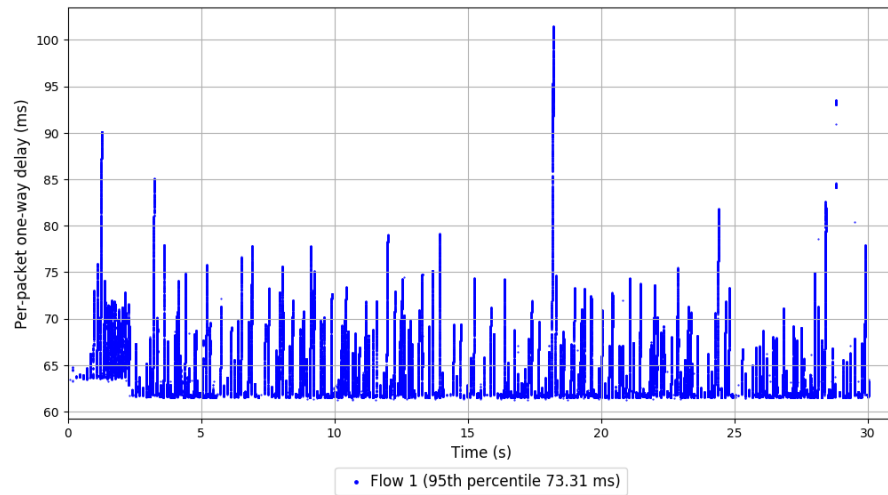
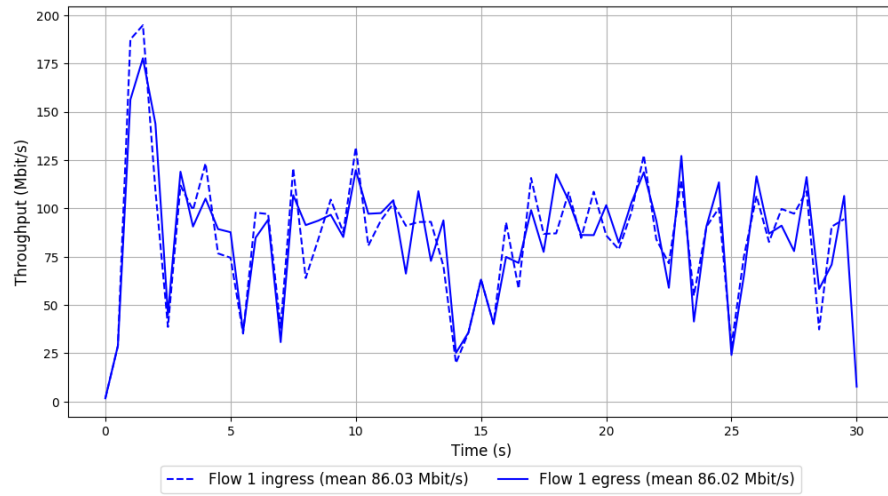
-- Flow 1:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 73.315 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link

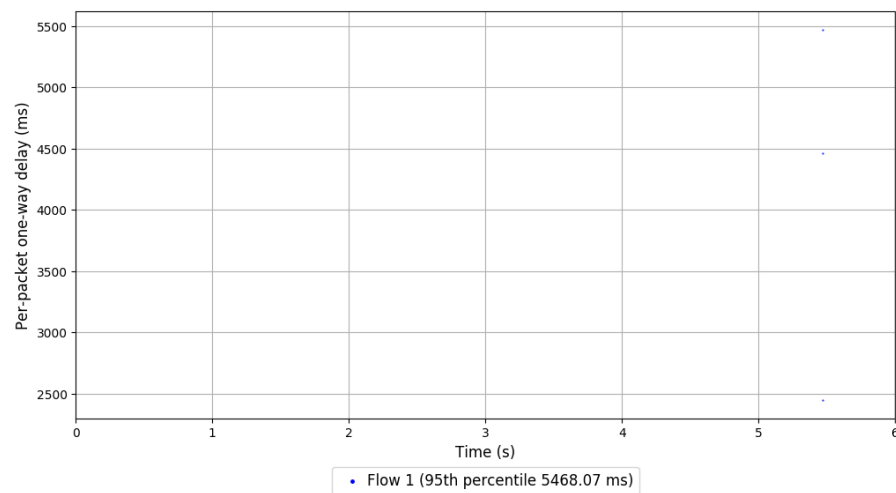
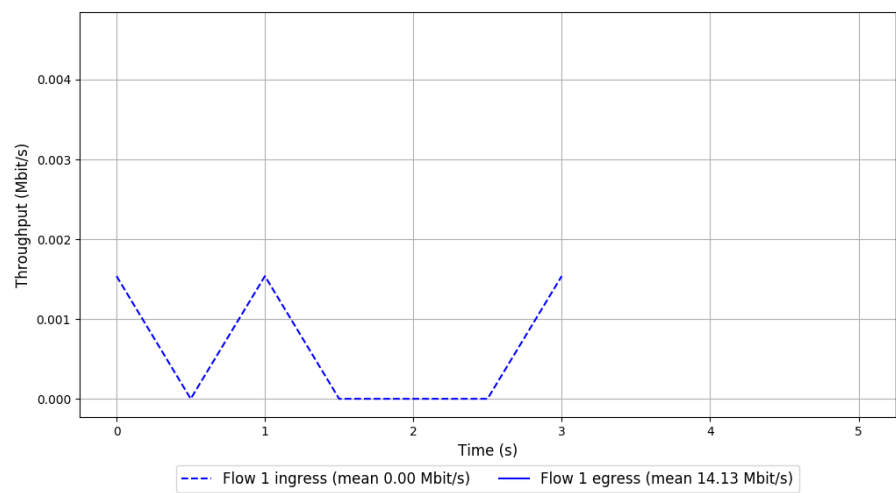


Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 09:34:32

End at: 2017-11-21 09:35:02

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 09:44:59

End at: 2017-11-21 09:45:29

Below is generated by plot.py at 2017-11-21 12:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.92 Mbit/s

95th percentile per-packet one-way delay: 64.665 ms

Loss rate: 0.02%

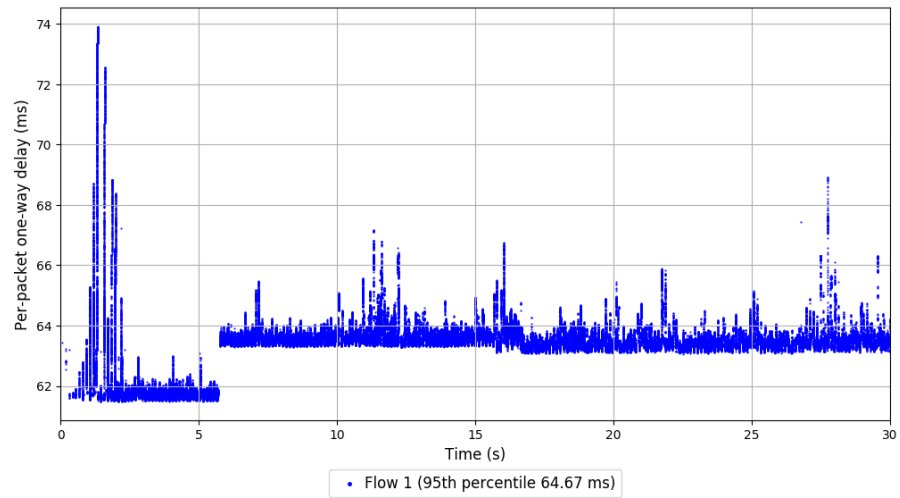
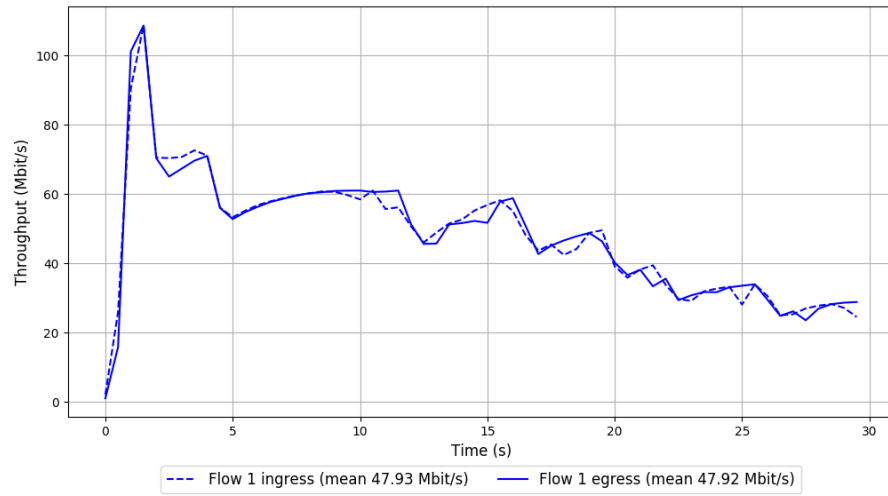
-- Flow 1:

Average throughput: 47.92 Mbit/s

95th percentile per-packet one-way delay: 64.665 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 09:55:12

End at: 2017-11-21 09:55:43

Below is generated by plot.py at 2017-11-21 12:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 62.311 ms

Loss rate: 0.04%

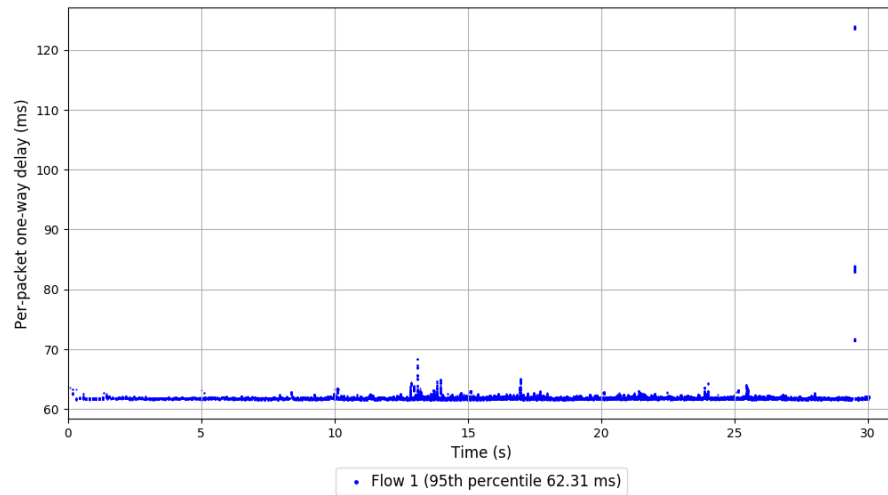
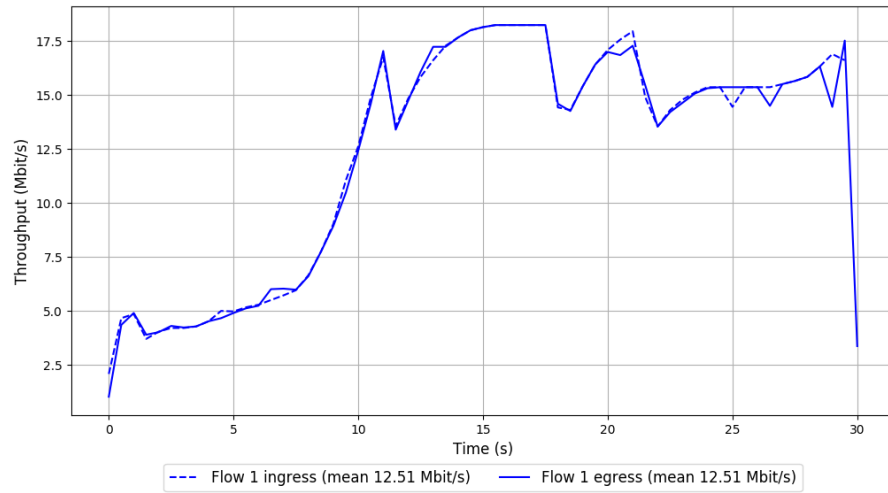
-- Flow 1:

Average throughput: 12.51 Mbit/s

95th percentile per-packet one-way delay: 62.311 ms

Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 10:05:33

End at: 2017-11-21 10:06:03

Below is generated by plot.py at 2017-11-21 12:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 64.531 ms

Loss rate: 0.01%

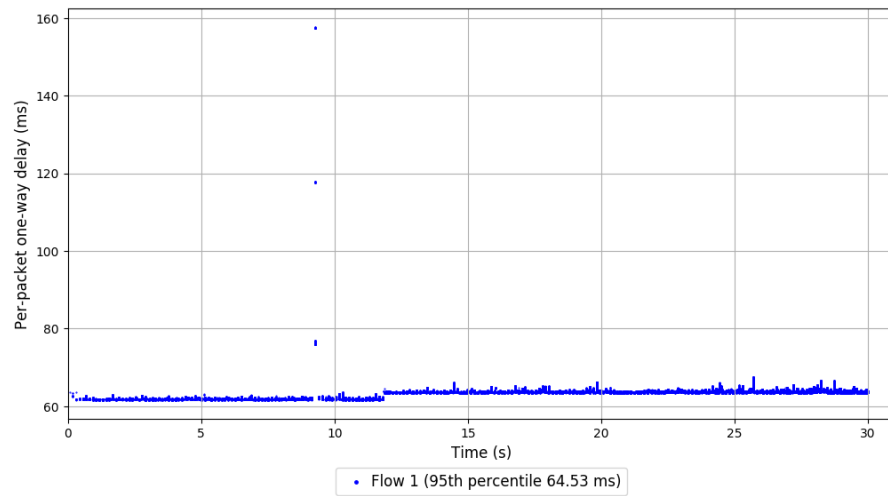
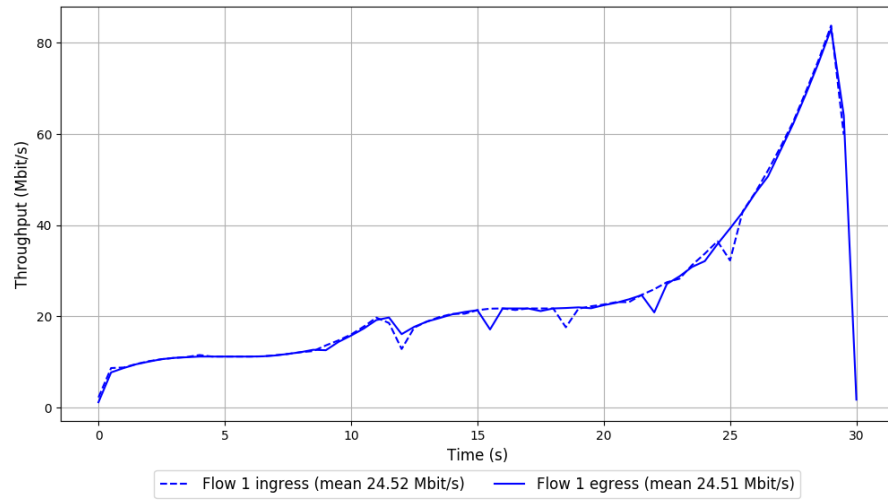
-- Flow 1:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 64.531 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 10:16:05

End at: 2017-11-21 10:16:35

Below is generated by plot.py at 2017-11-21 12:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.04 Mbit/s

95th percentile per-packet one-way delay: 63.715 ms

Loss rate: 0.00%

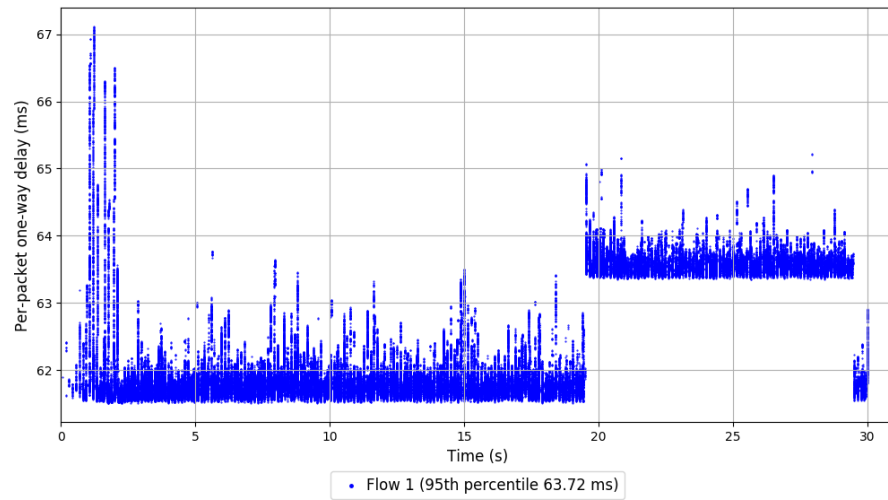
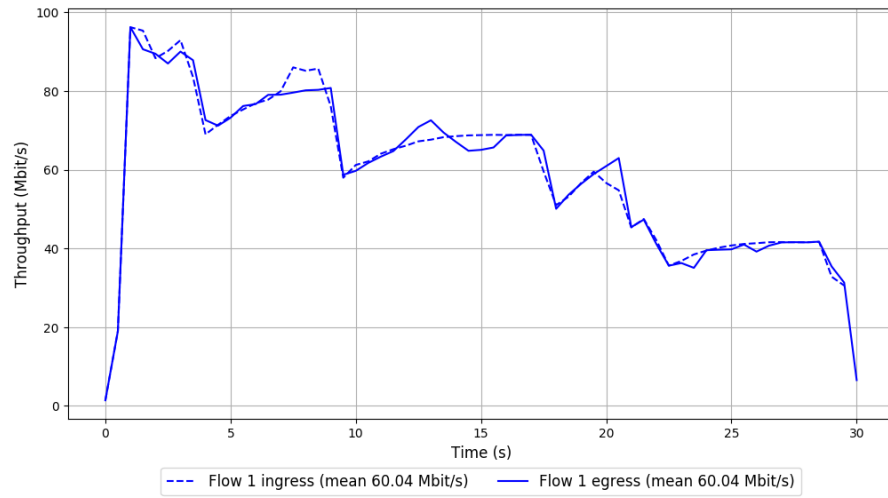
-- Flow 1:

Average throughput: 60.04 Mbit/s

95th percentile per-packet one-way delay: 63.715 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 10:26:38

End at: 2017-11-21 10:27:08

Below is generated by plot.py at 2017-11-21 12:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 64.562 ms

Loss rate: 0.01%

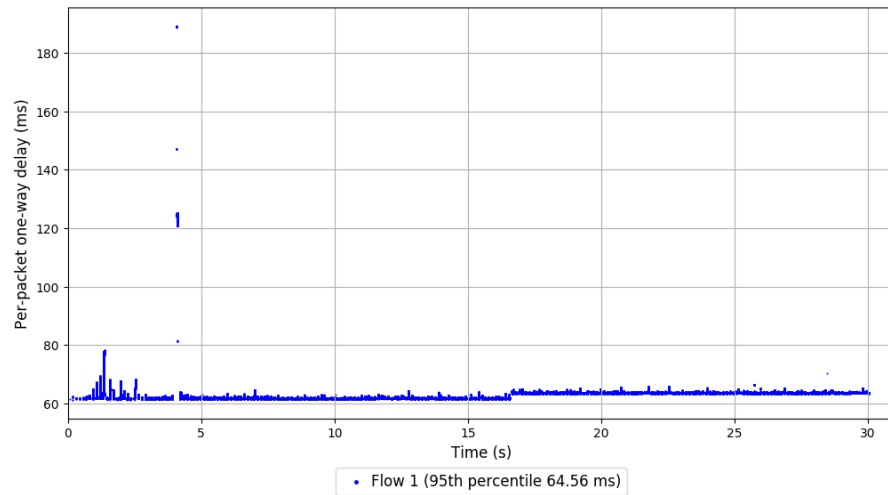
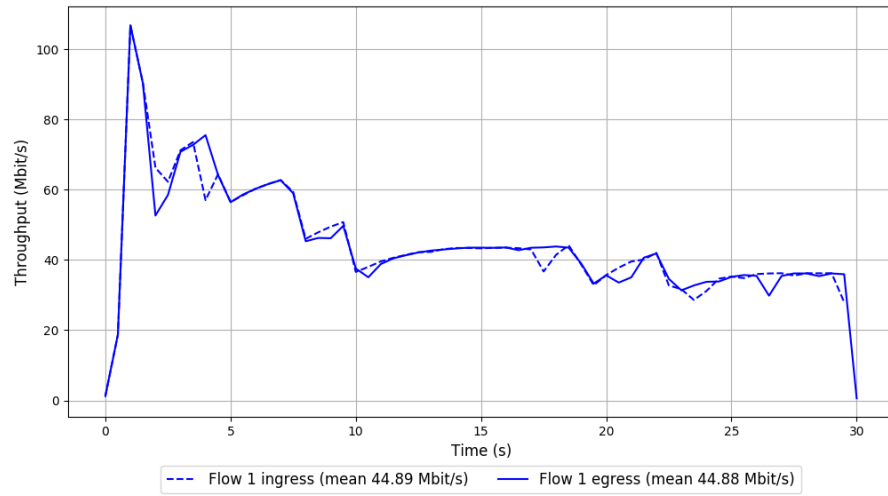
-- Flow 1:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 64.562 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 10:37:08

End at: 2017-11-21 10:37:38

Below is generated by plot.py at 2017-11-21 12:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 66.501 ms

Loss rate: 0.03%

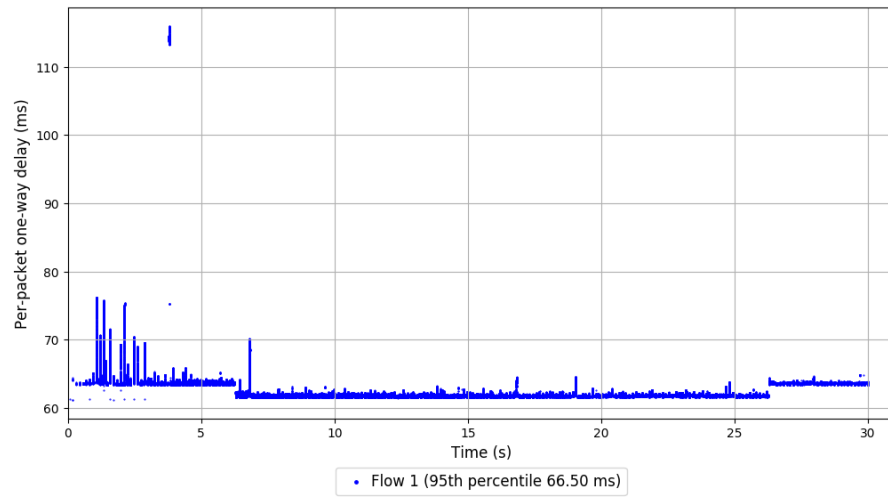
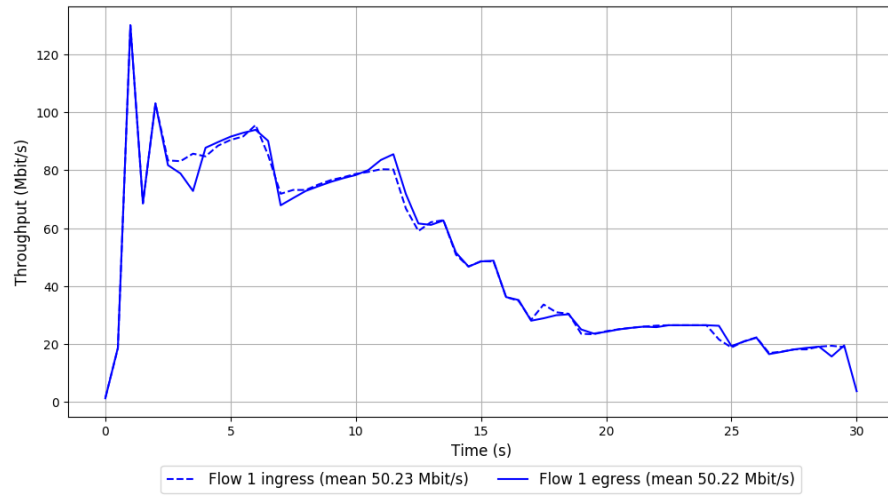
-- Flow 1:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 66.501 ms

Loss rate: 0.03%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 10:47:21

End at: 2017-11-21 10:47:51

Below is generated by plot.py at 2017-11-21 12:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.85 Mbit/s

95th percentile per-packet one-way delay: 65.719 ms

Loss rate: 0.02%

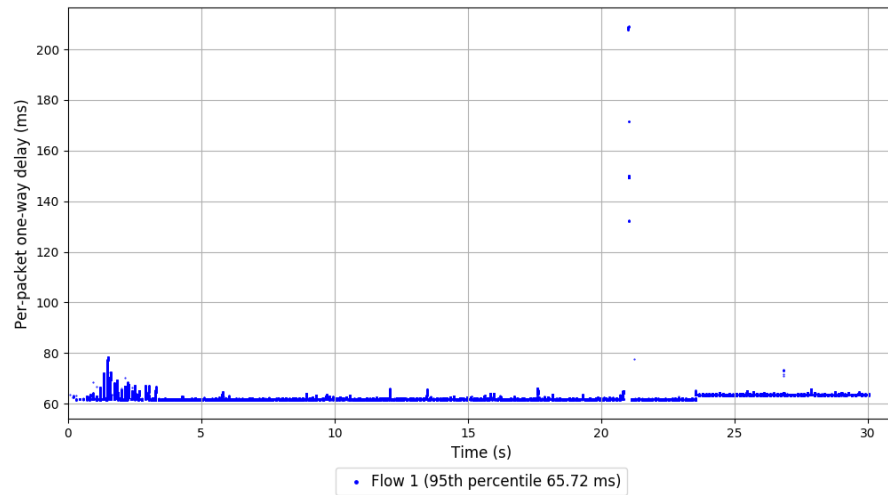
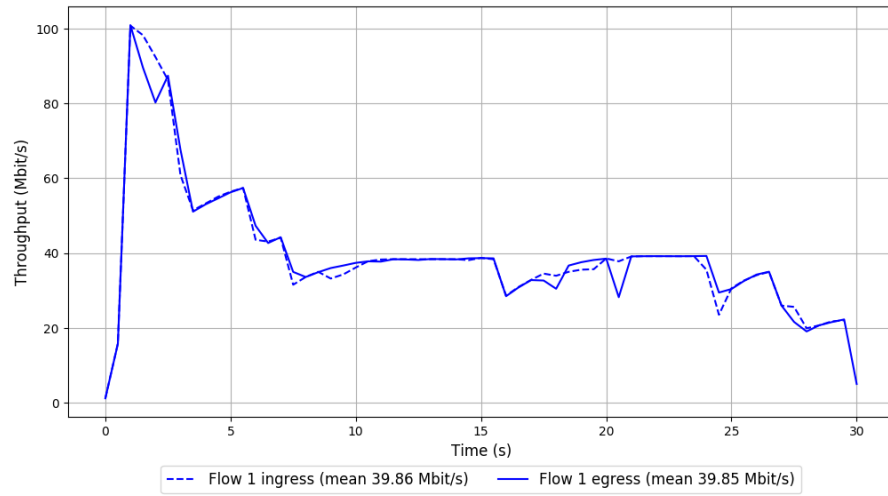
-- Flow 1:

Average throughput: 39.85 Mbit/s

95th percentile per-packet one-way delay: 65.719 ms

Loss rate: 0.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 10:57:21

End at: 2017-11-21 10:57:51

Below is generated by plot.py at 2017-11-21 12:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.59 Mbit/s

95th percentile per-packet one-way delay: 63.827 ms

Loss rate: 0.01%

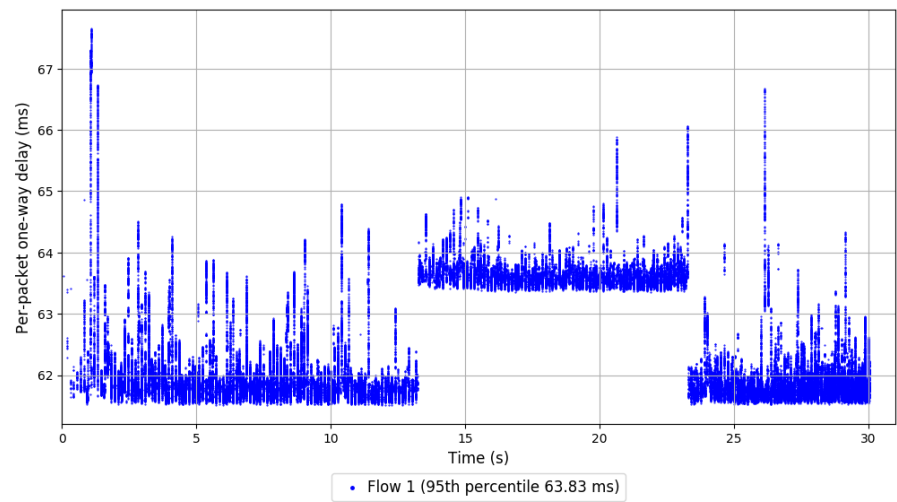
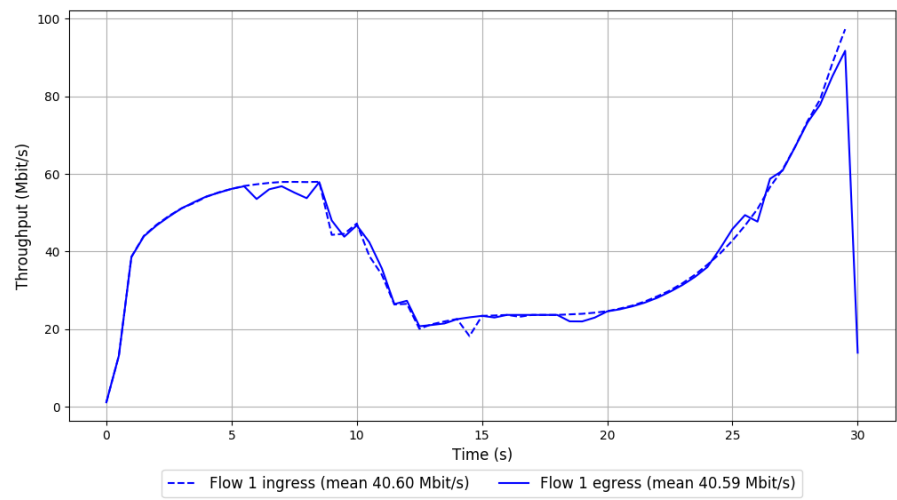
-- Flow 1:

Average throughput: 40.59 Mbit/s

95th percentile per-packet one-way delay: 63.827 ms

Loss rate: 0.01%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 11:07:50

End at: 2017-11-21 11:08:21

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.63 Mbit/s

95th percentile per-packet one-way delay: 63.821 ms

Loss rate: 0.01%

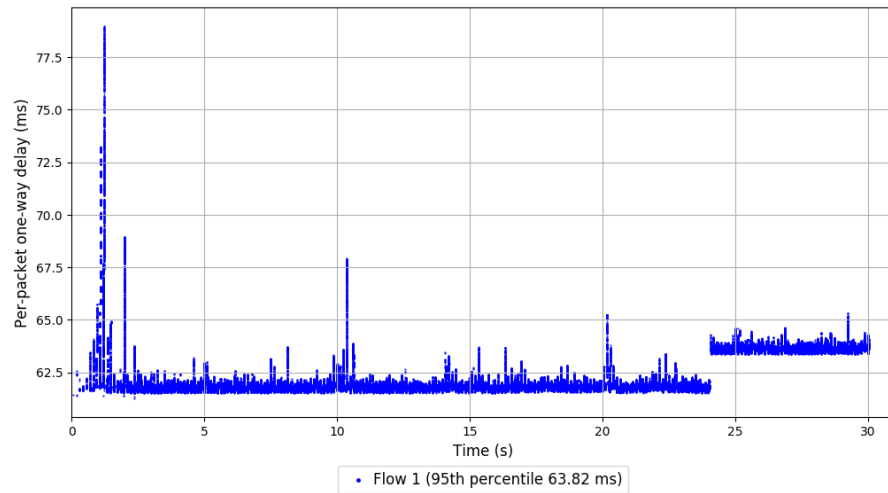
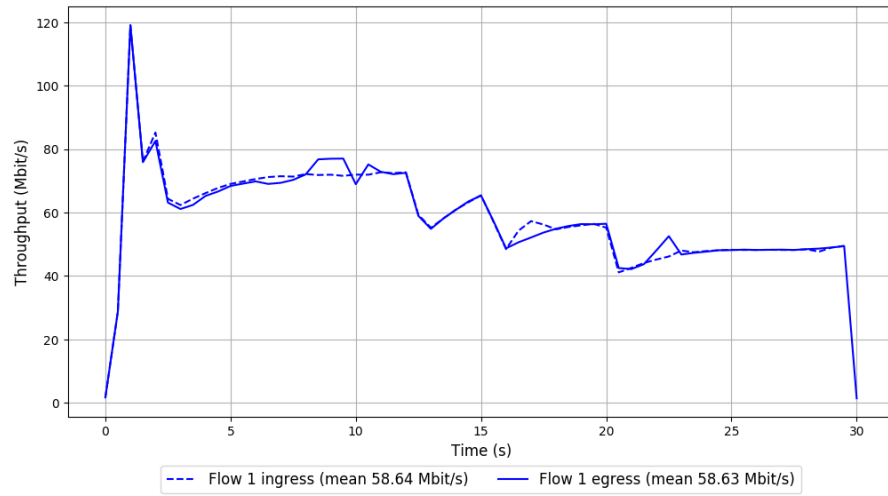
-- Flow 1:

Average throughput: 58.63 Mbit/s

95th percentile per-packet one-way delay: 63.821 ms

Loss rate: 0.01%

Run 10: Report of TCP Cubic — Data Link

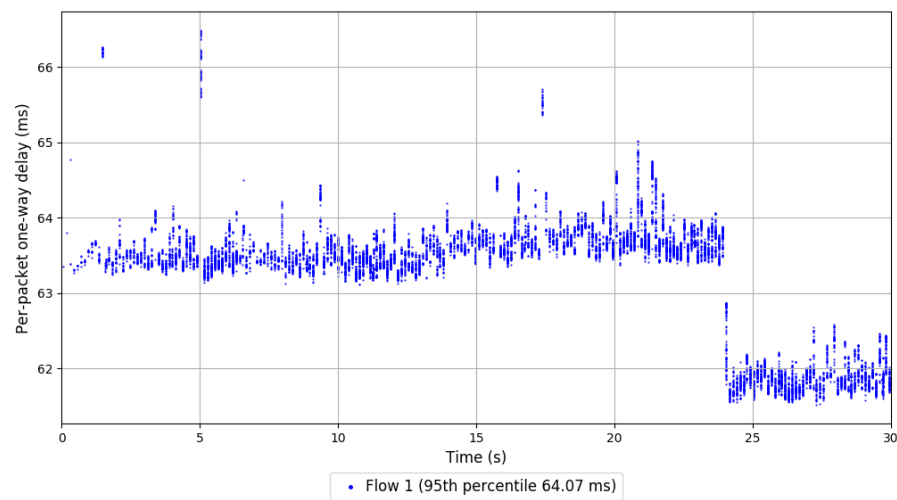
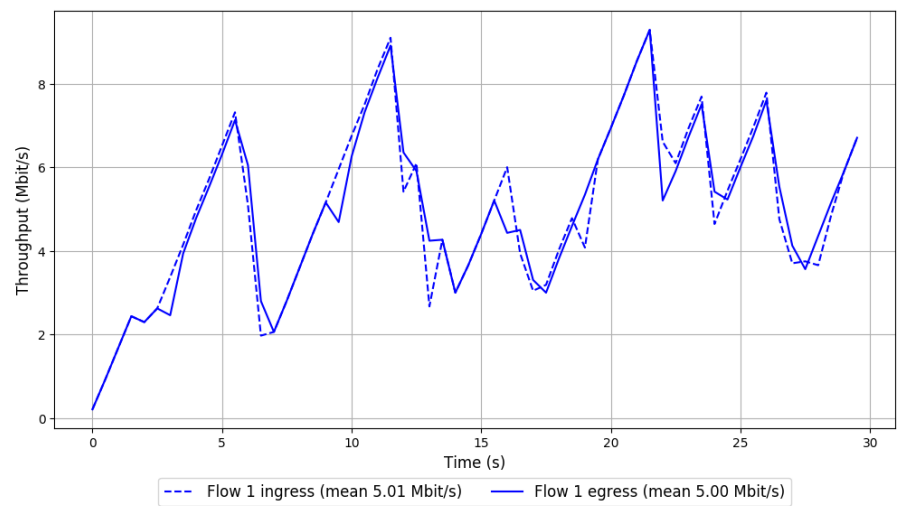


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-21 09:36:41
End at: 2017-11-21 09:37:11

# Below is generated by plot.py at 2017-11-21 12:07:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 64.066 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 5.00 Mbit/s
95th percentile per-packet one-way delay: 64.066 ms
Loss rate: 0.07%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-21 09:47:08

End at: 2017-11-21 09:47:38

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 64.152 ms

Loss rate: 0.18%

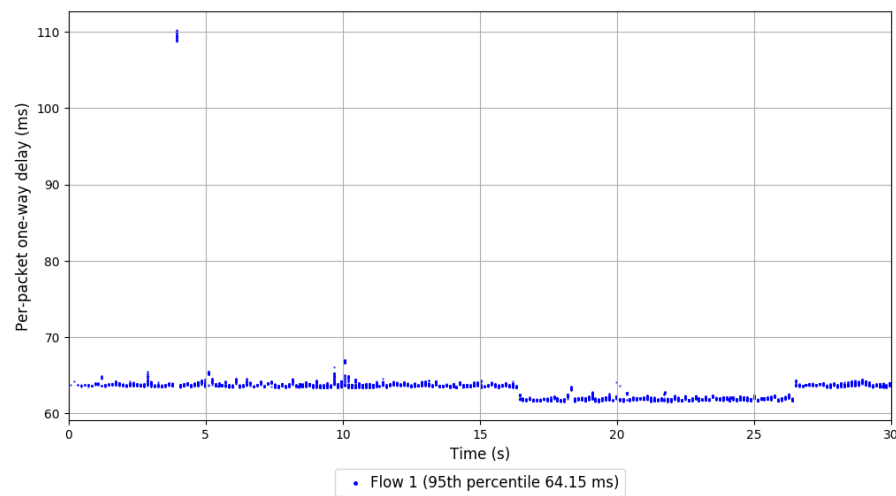
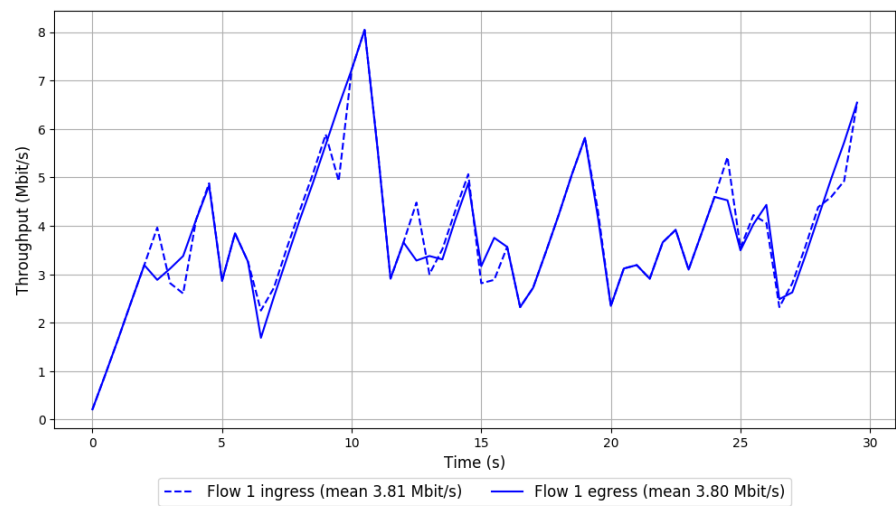
-- Flow 1:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 64.152 ms

Loss rate: 0.18%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-21 09:57:25

End at: 2017-11-21 09:57:55

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 63.939 ms

Loss rate: 0.05%

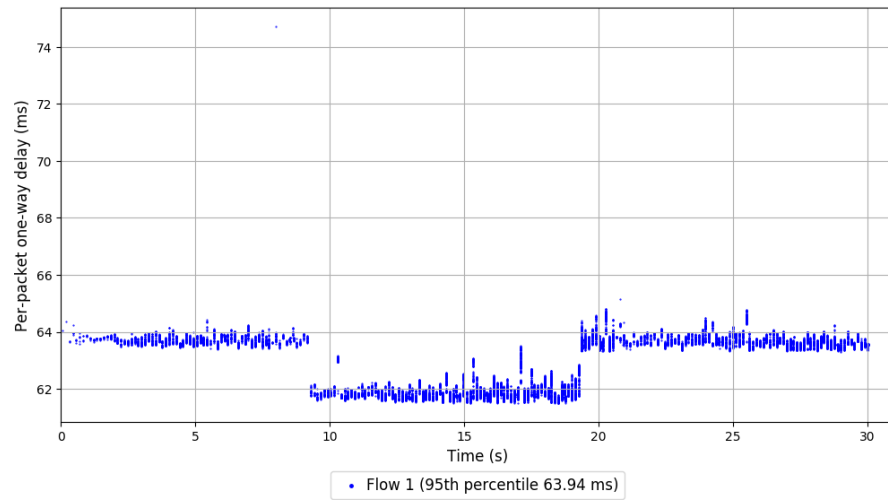
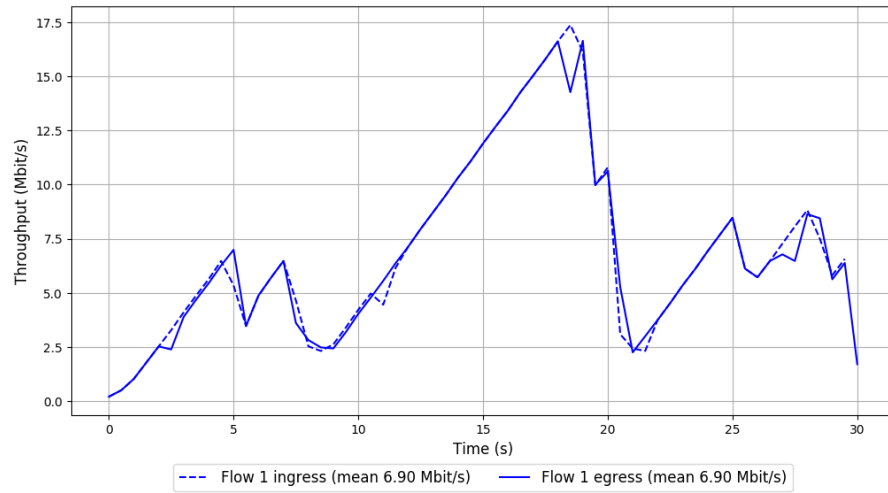
-- Flow 1:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 63.939 ms

Loss rate: 0.05%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 10:07:45

End at: 2017-11-21 10:08:15

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 64.208 ms

Loss rate: 0.26%

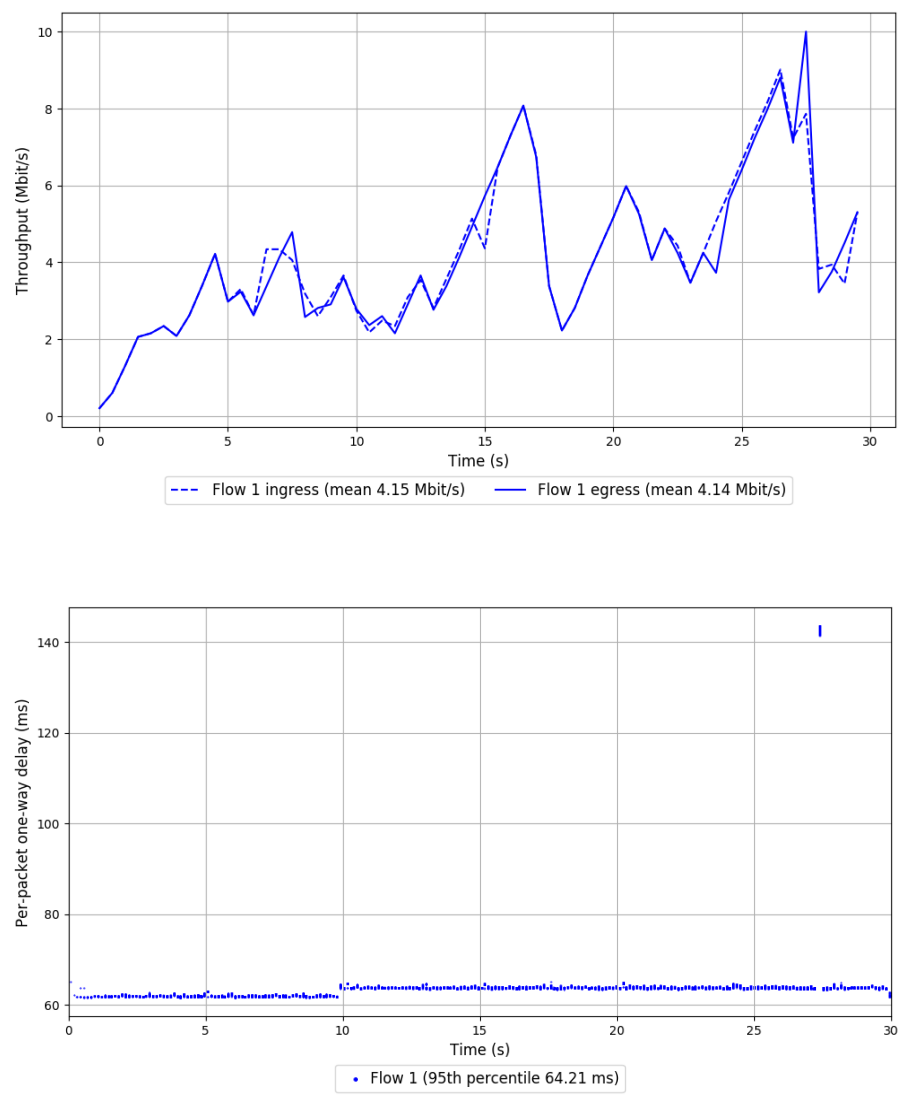
-- Flow 1:

Average throughput: 4.14 Mbit/s

95th percentile per-packet one-way delay: 64.208 ms

Loss rate: 0.26%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-21 10:18:21

End at: 2017-11-21 10:18:51

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 64.084 ms

Loss rate: 0.65%

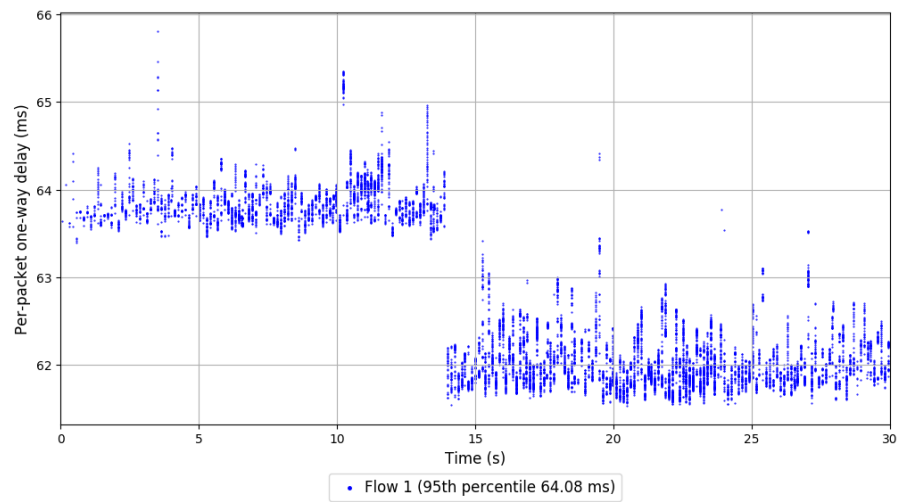
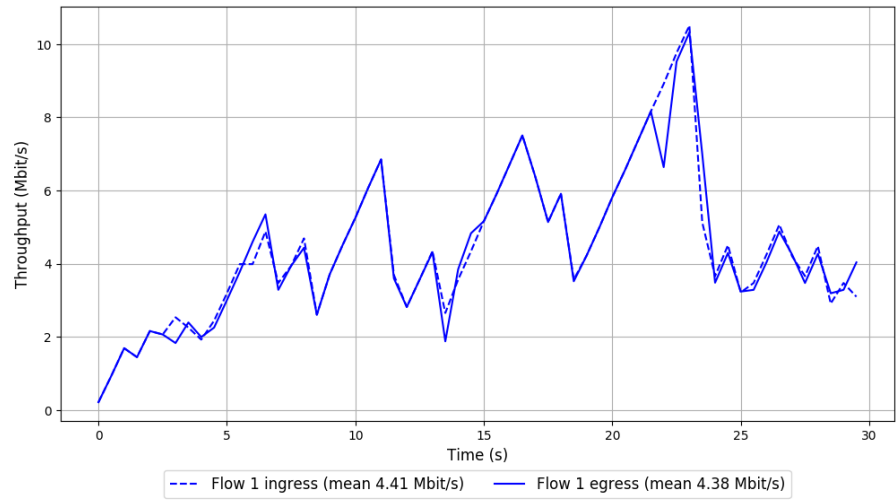
-- Flow 1:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 64.084 ms

Loss rate: 0.65%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 10:28:46

End at: 2017-11-21 10:29:16

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 64.001 ms

Loss rate: 0.96%

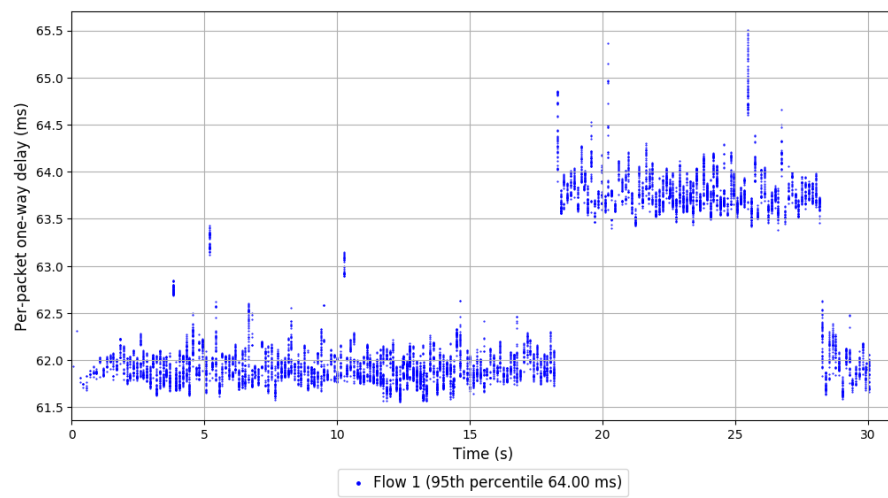
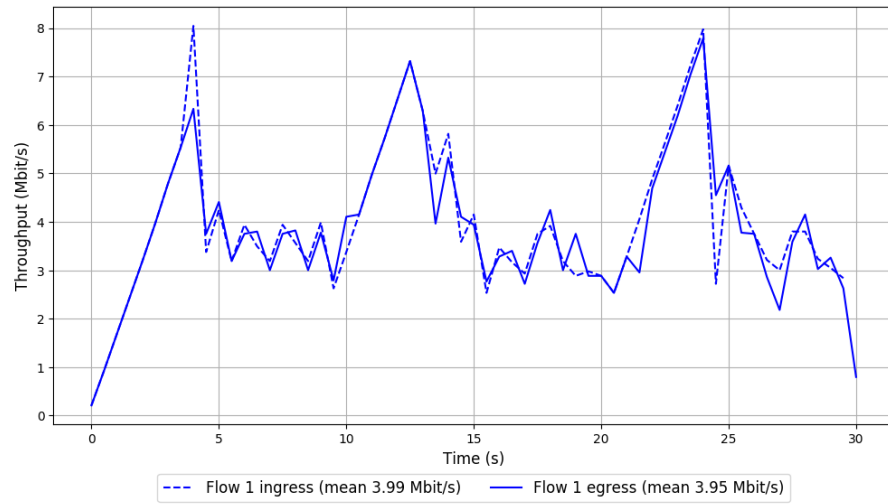
-- Flow 1:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 64.001 ms

Loss rate: 0.96%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-21 10:39:21

End at: 2017-11-21 10:39:51

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 64.551 ms

Loss rate: 0.17%

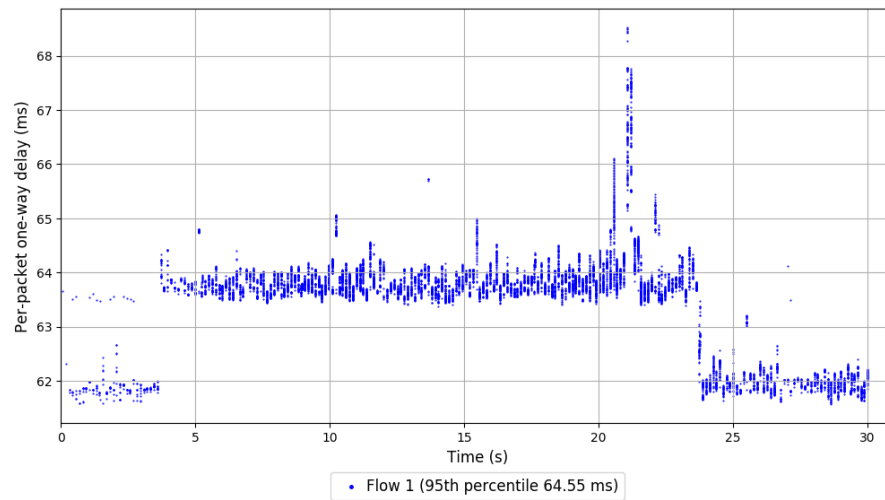
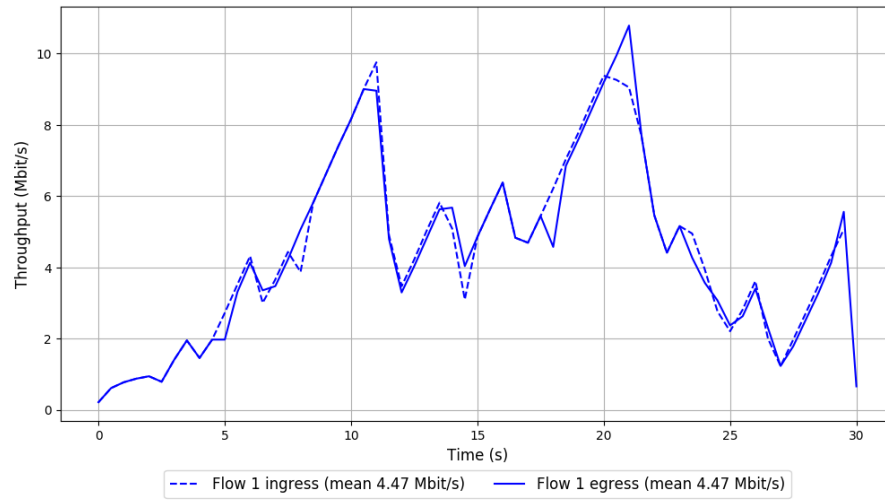
-- Flow 1:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 64.551 ms

Loss rate: 0.17%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-21 10:49:33

End at: 2017-11-21 10:50:03

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 62.370 ms

Loss rate: 0.23%

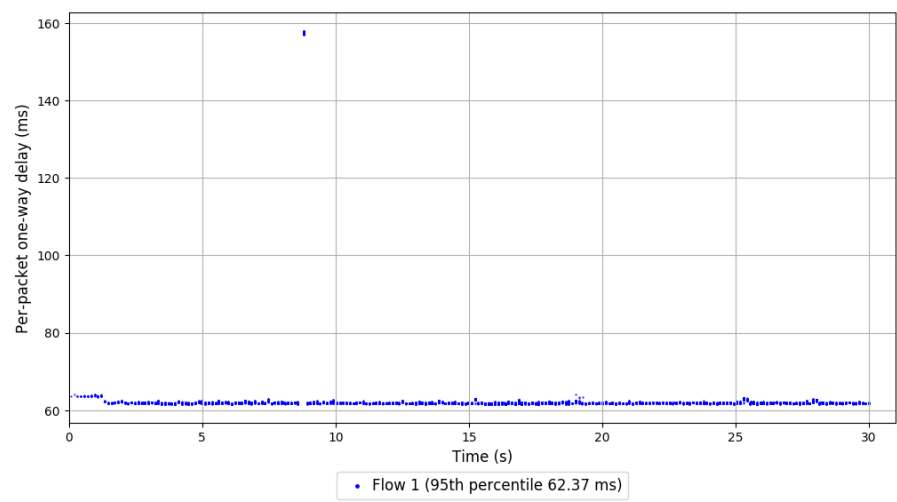
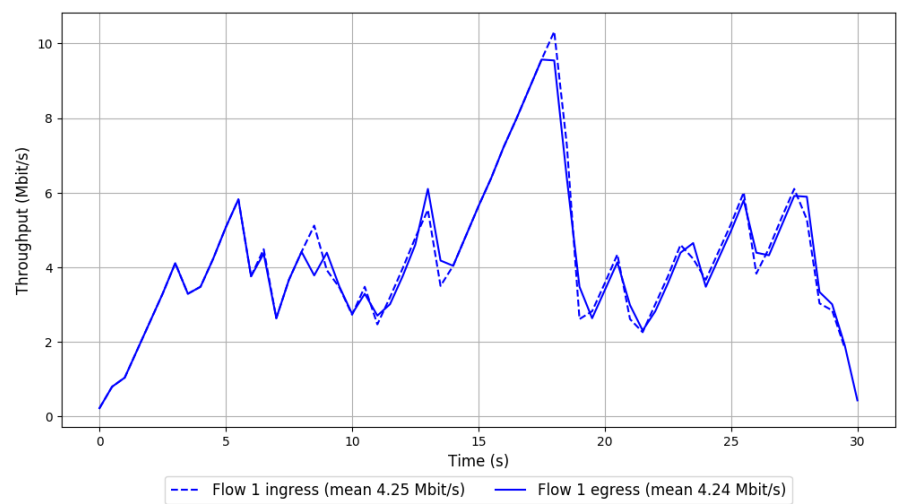
-- Flow 1:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 62.370 ms

Loss rate: 0.23%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 10:59:34

End at: 2017-11-21 11:00:04

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 63.959 ms

Loss rate: 0.35%

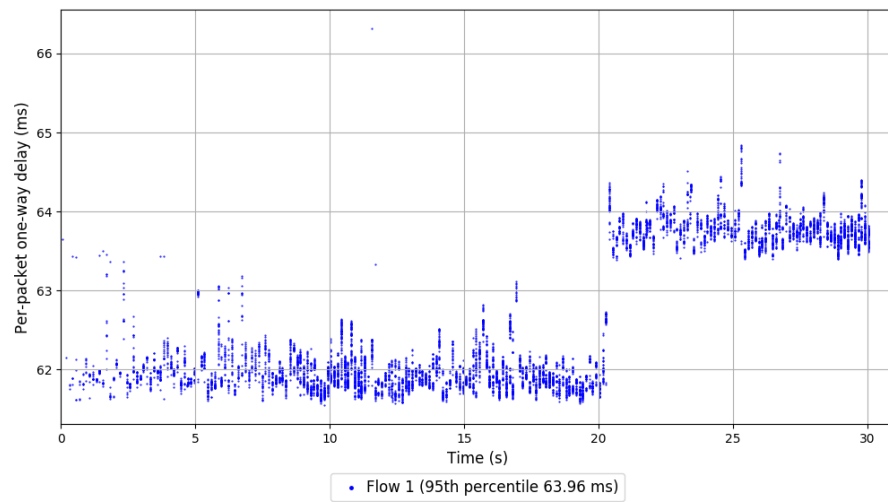
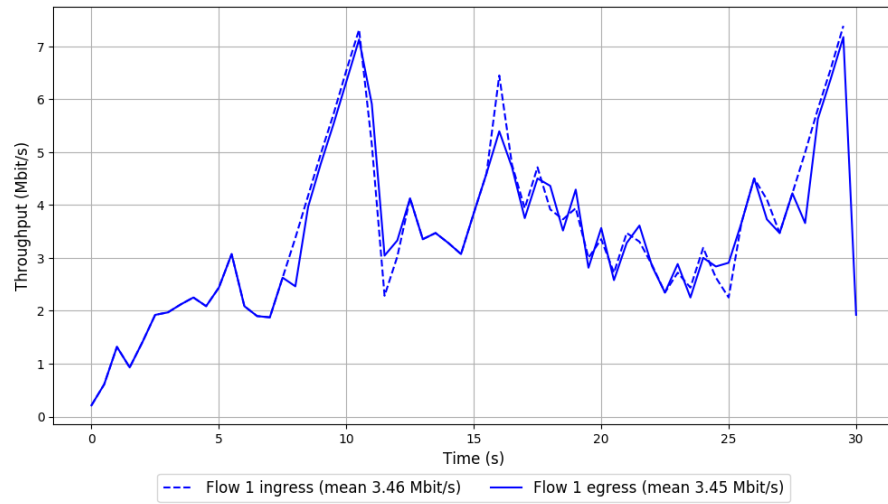
-- Flow 1:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 63.959 ms

Loss rate: 0.35%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-21 11:10:04

End at: 2017-11-21 11:10:34

Below is generated by plot.py at 2017-11-21 12:07:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 64.137 ms

Loss rate: 0.57%

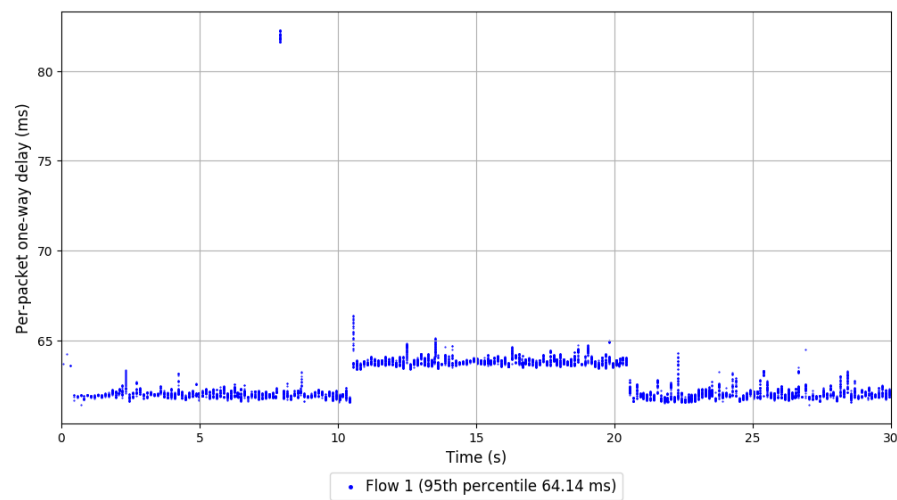
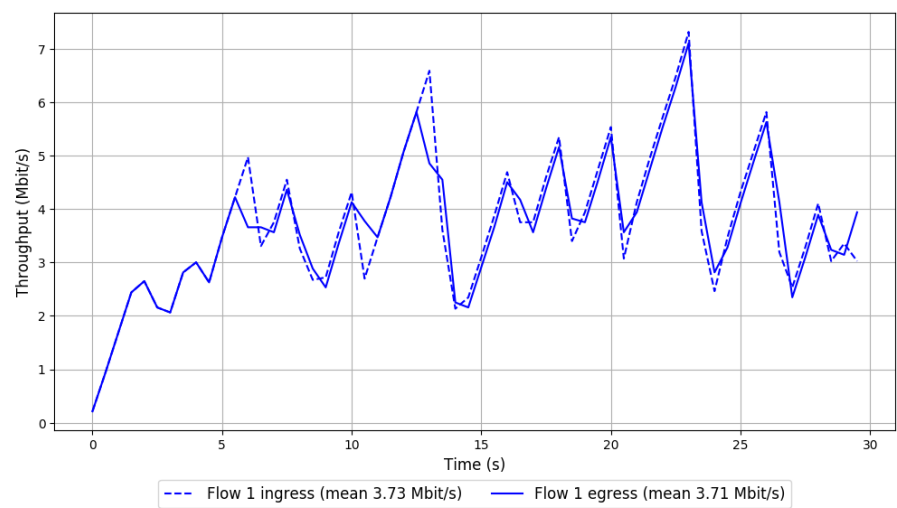
-- Flow 1:

Average throughput: 3.71 Mbit/s

95th percentile per-packet one-way delay: 64.137 ms

Loss rate: 0.57%

Run 10: Report of LEDBAT — Data Link

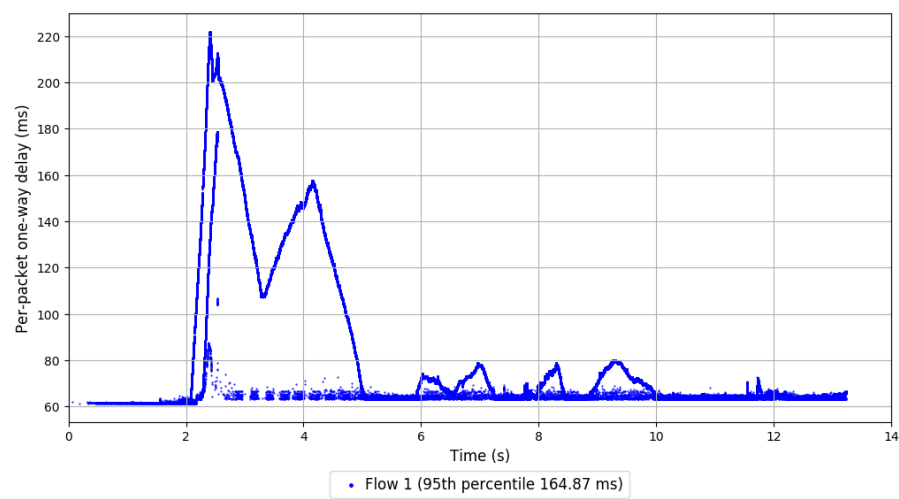
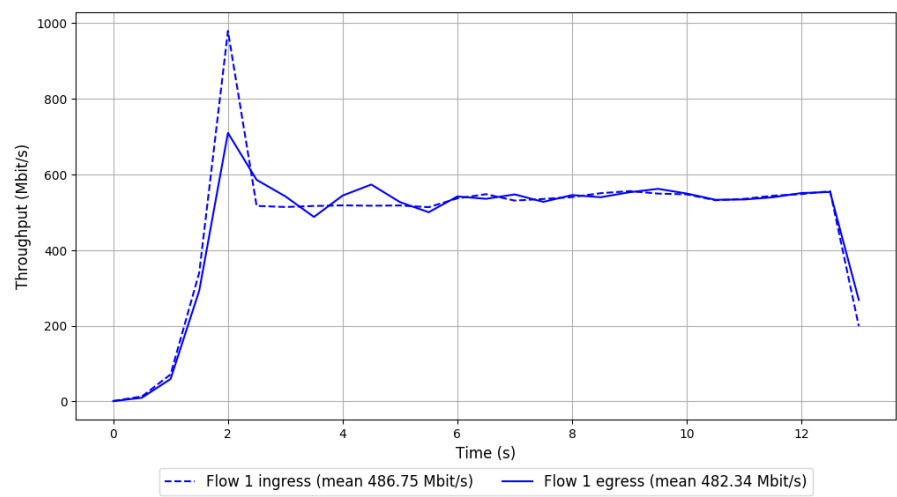


Run 1: Statistics of PCC

Start at: 2017-11-21 09:33:46

End at: 2017-11-21 09:34:16

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-21 09:44:00

End at: 2017-11-21 09:44:30

Below is generated by plot.py at 2017-11-21 12:17:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.86 Mbit/s

95th percentile per-packet one-way delay: 102.491 ms

Loss rate: 0.46%

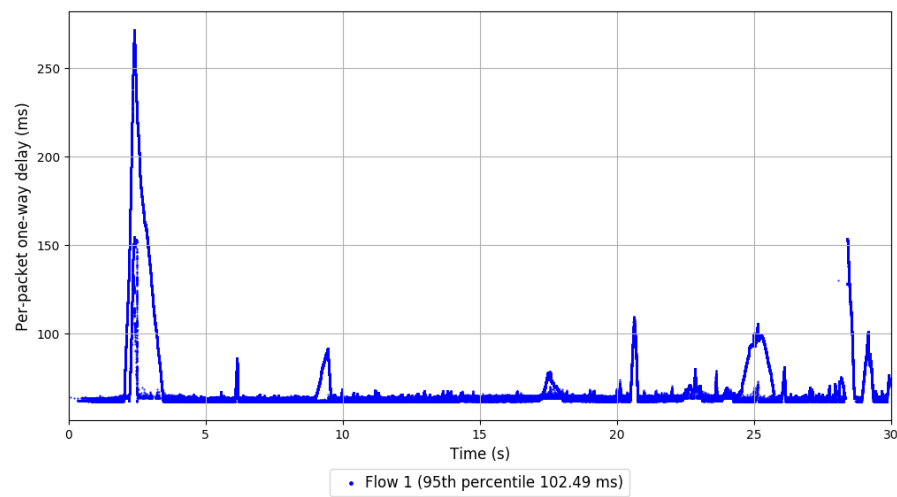
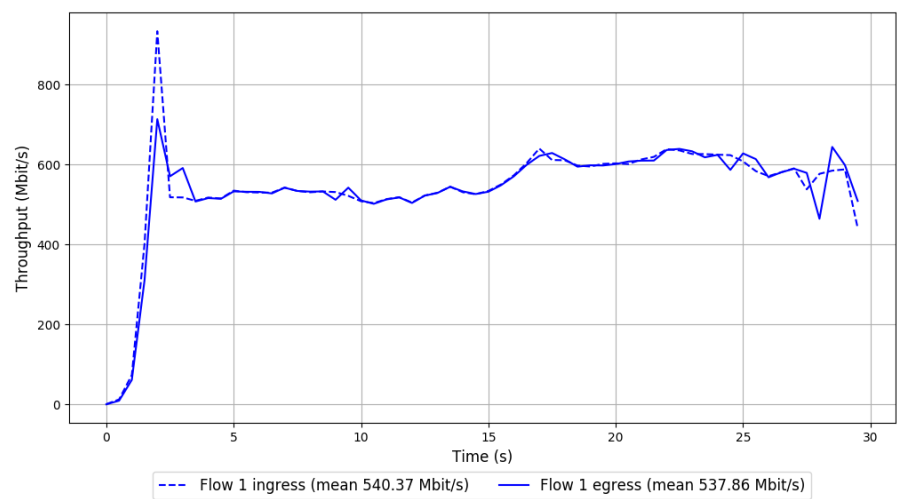
-- Flow 1:

Average throughput: 537.86 Mbit/s

95th percentile per-packet one-way delay: 102.491 ms

Loss rate: 0.46%

Run 2: Report of PCC — Data Link

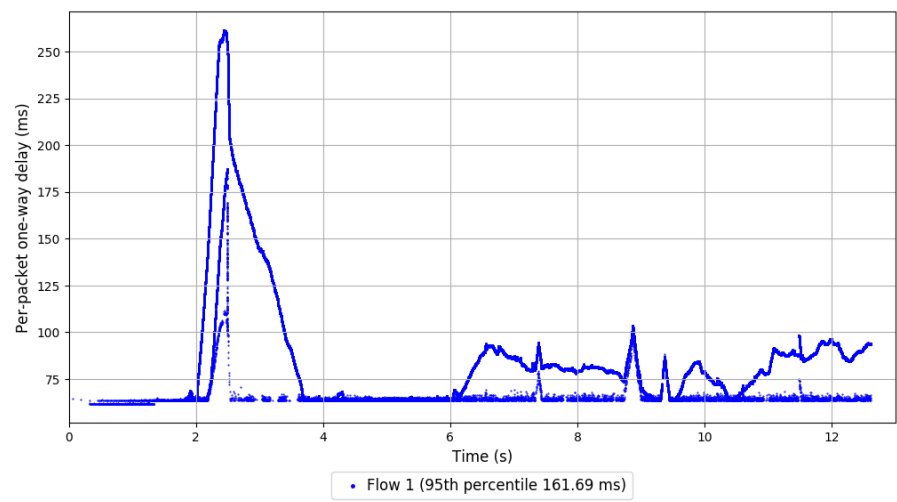
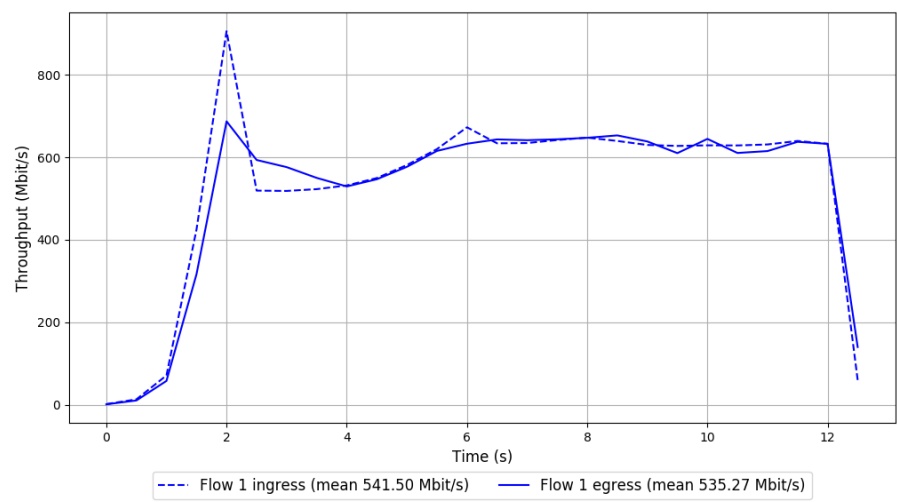


Run 3: Statistics of PCC

Start at: 2017-11-21 09:54:26

End at: 2017-11-21 09:54:56

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-21 10:04:32

End at: 2017-11-21 10:05:02

Below is generated by plot.py at 2017-11-21 12:17:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 569.70 Mbit/s

95th percentile per-packet one-way delay: 184.274 ms

Loss rate: 1.10%

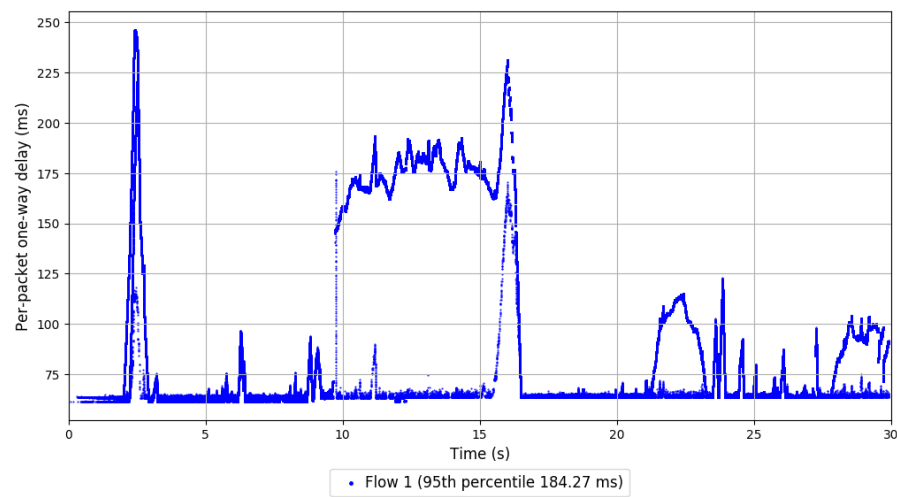
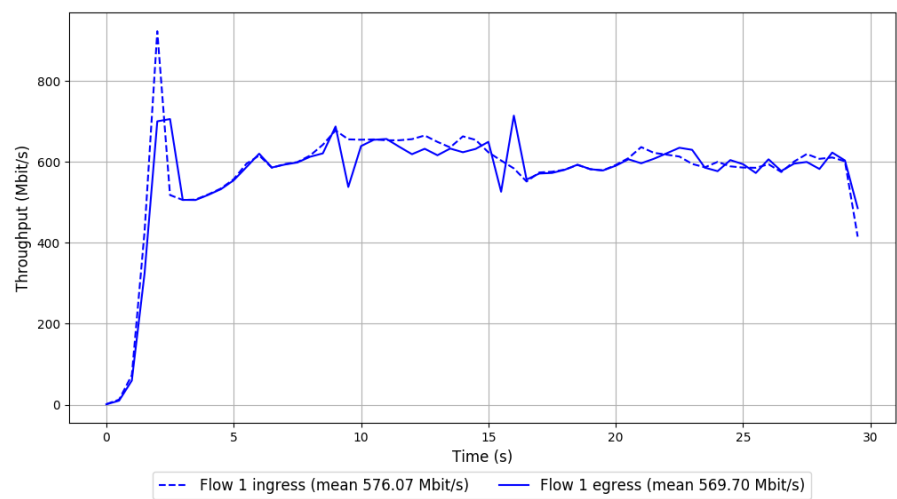
-- Flow 1:

Average throughput: 569.70 Mbit/s

95th percentile per-packet one-way delay: 184.274 ms

Loss rate: 1.10%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-21 10:15:00

End at: 2017-11-21 10:15:30

Below is generated by plot.py at 2017-11-21 12:18:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 585.34 Mbit/s

95th percentile per-packet one-way delay: 200.395 ms

Loss rate: 1.03%

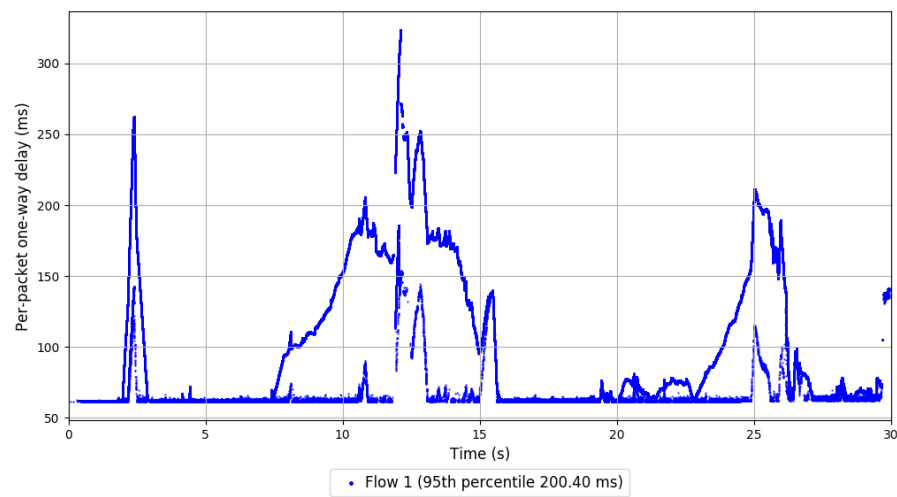
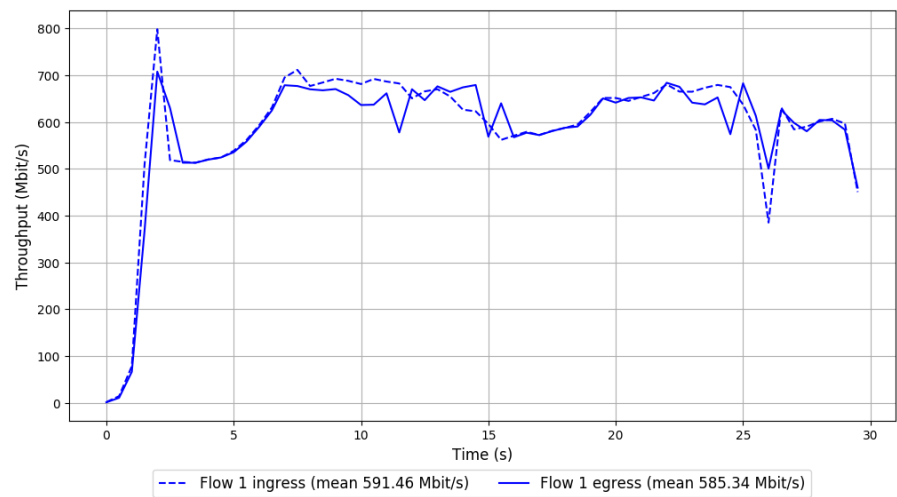
-- Flow 1:

Average throughput: 585.34 Mbit/s

95th percentile per-packet one-way delay: 200.395 ms

Loss rate: 1.03%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 10:25:41

End at: 2017-11-21 10:26:11

Below is generated by plot.py at 2017-11-21 12:18:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 529.10 Mbit/s

95th percentile per-packet one-way delay: 166.605 ms

Loss rate: 0.86%

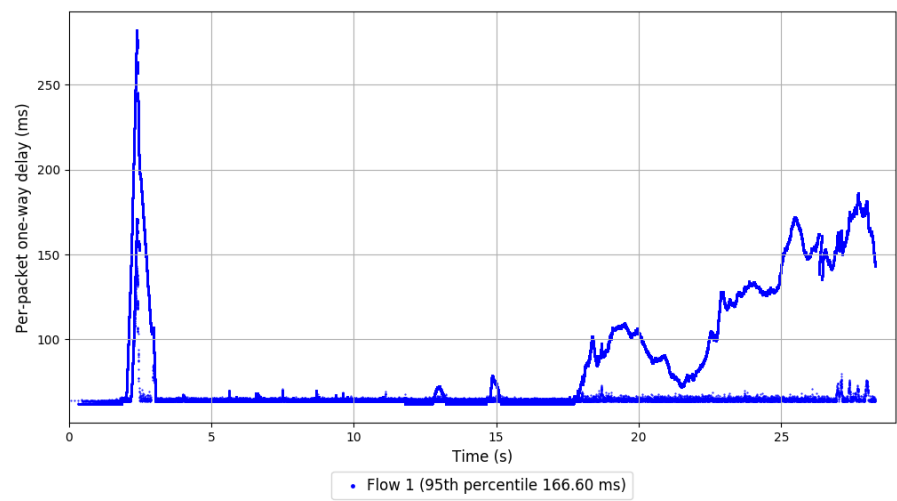
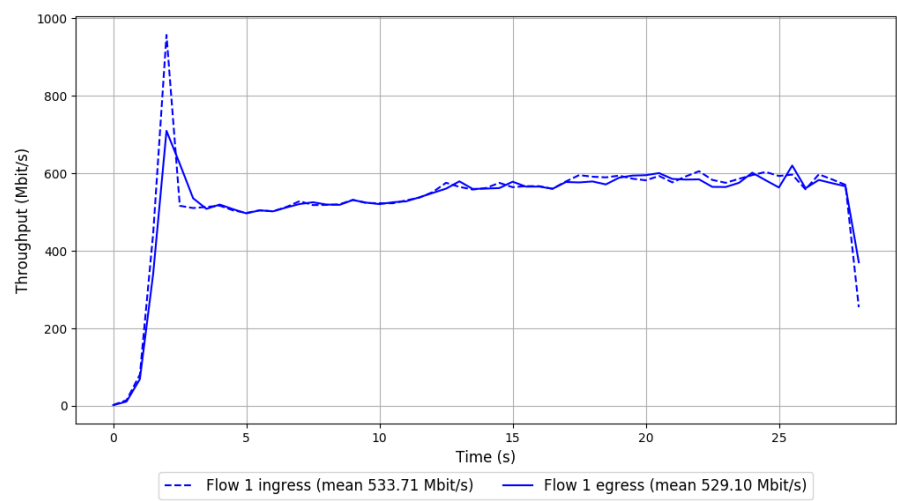
-- Flow 1:

Average throughput: 529.10 Mbit/s

95th percentile per-packet one-way delay: 166.605 ms

Loss rate: 0.86%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 10:36:09

End at: 2017-11-21 10:36:39

Below is generated by plot.py at 2017-11-21 12:18:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.36 Mbit/s

95th percentile per-packet one-way delay: 132.302 ms

Loss rate: 1.35%

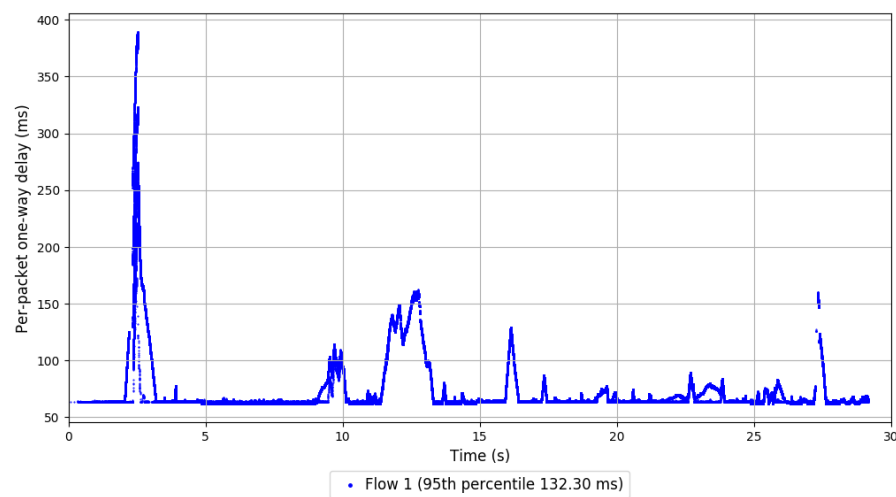
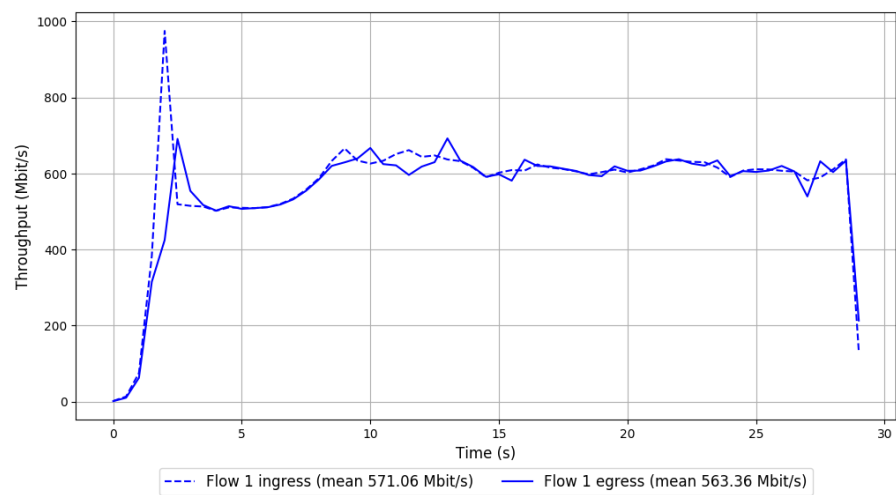
-- Flow 1:

Average throughput: 563.36 Mbit/s

95th percentile per-packet one-way delay: 132.302 ms

Loss rate: 1.35%

Run 7: Report of PCC — Data Link

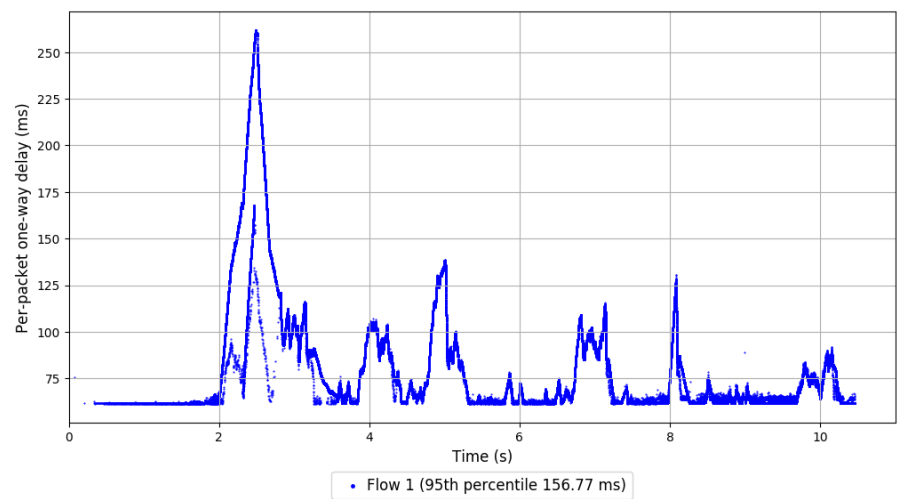
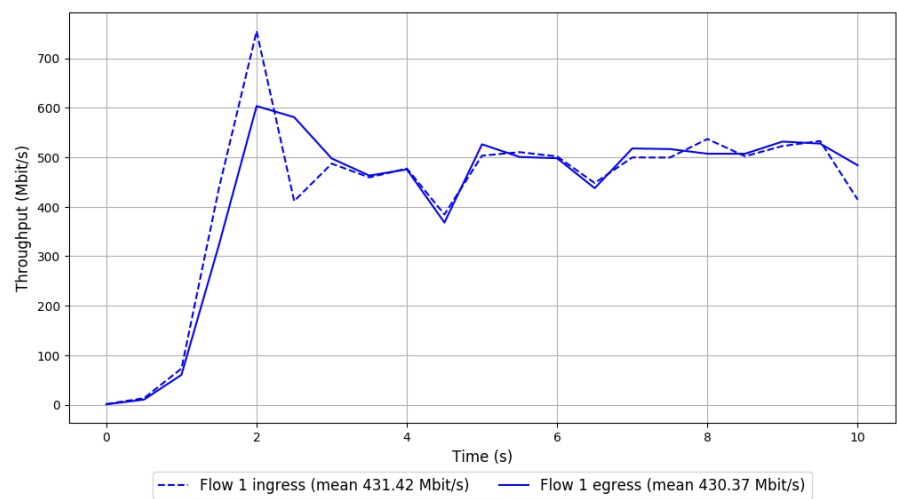


Run 8: Statistics of PCC

Start at: 2017-11-21 10:46:37

End at: 2017-11-21 10:47:07

Run 8: Report of PCC — Data Link

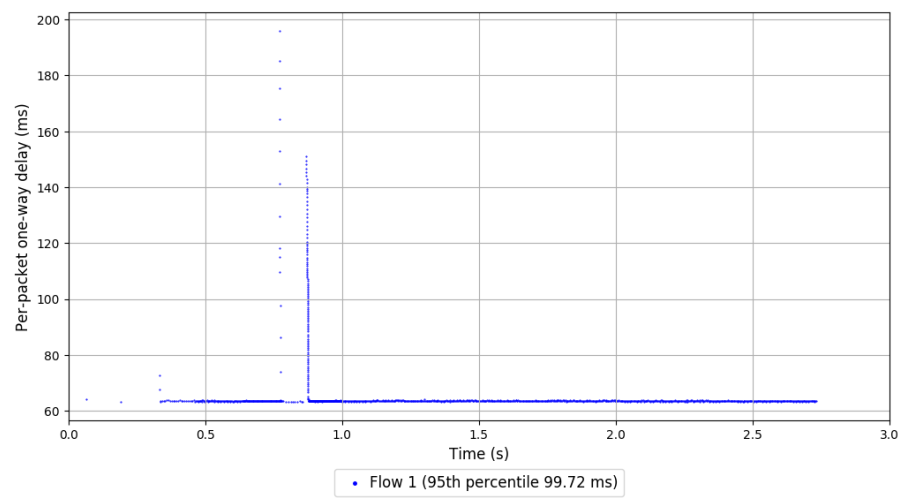
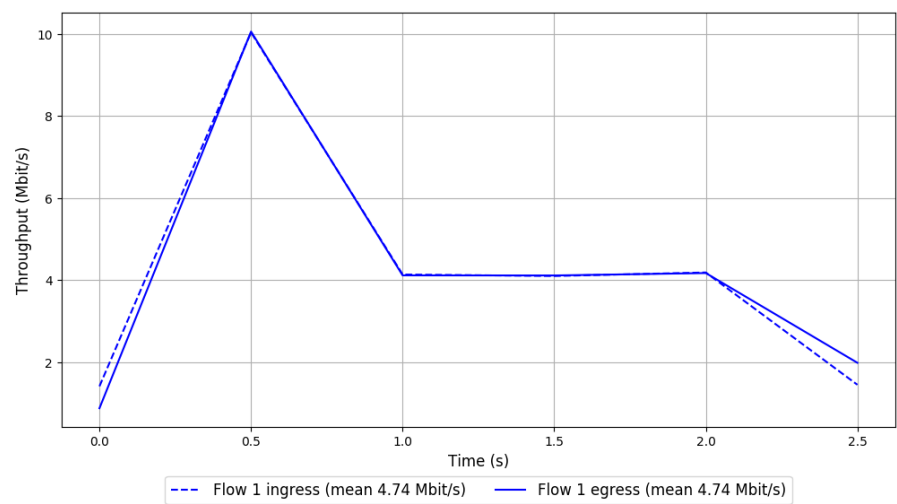


Run 9: Statistics of PCC

Start at: 2017-11-21 10:56:44

End at: 2017-11-21 10:57:14

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-21 11:06:52

End at: 2017-11-21 11:07:22

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.48 Mbit/s

95th percentile per-packet one-way delay: 187.975 ms

Loss rate: 1.17%

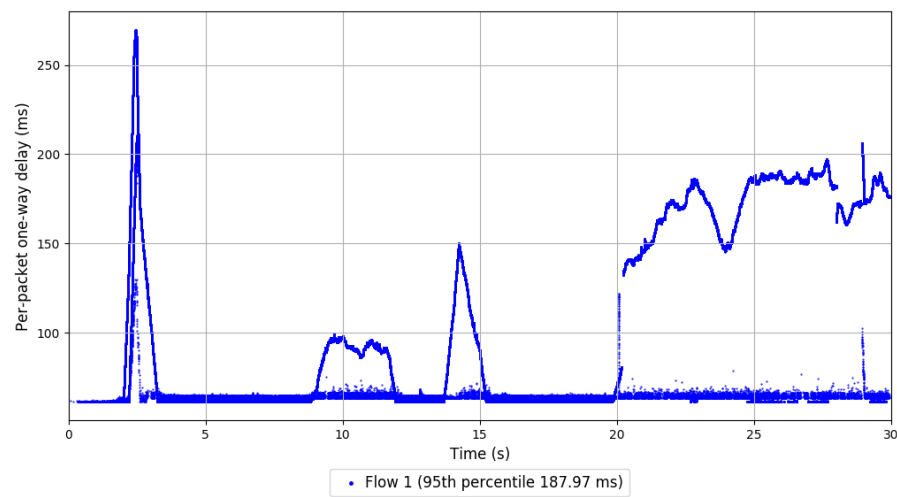
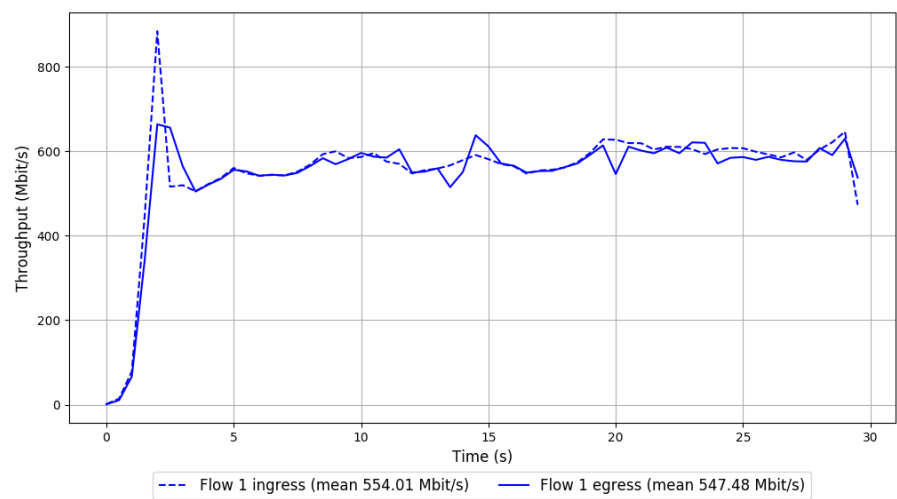
-- Flow 1:

Average throughput: 547.48 Mbit/s

95th percentile per-packet one-way delay: 187.975 ms

Loss rate: 1.17%

Run 10: Report of PCC — Data Link

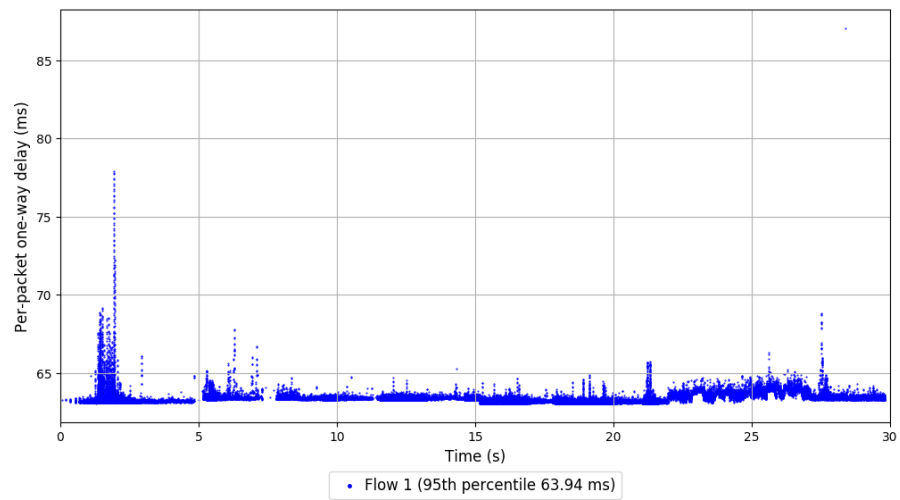
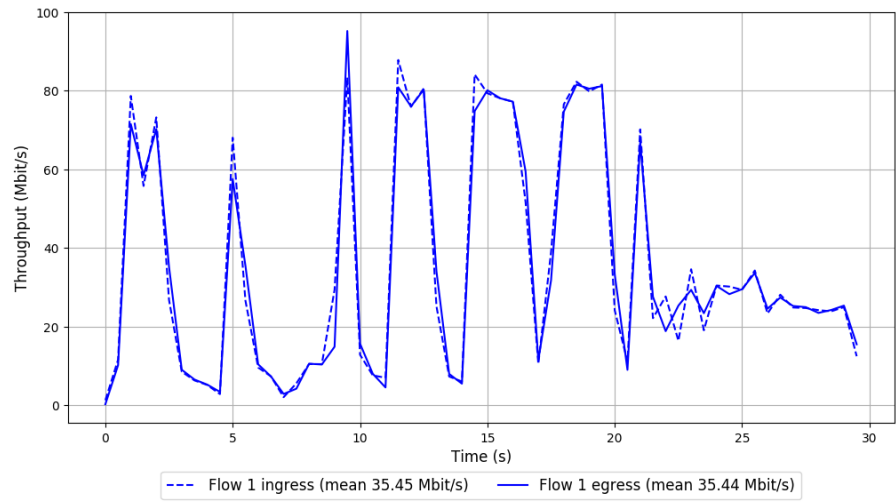


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 09:35:09
End at: 2017-11-21 09:35:39

# Below is generated by plot.py at 2017-11-21 12:22:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.44 Mbit/s
95th percentile per-packet one-way delay: 63.942 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 35.44 Mbit/s
95th percentile per-packet one-way delay: 63.942 ms
Loss rate: 0.03%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 09:45:40

End at: 2017-11-21 09:46:10

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.00 Mbit/s

95th percentile per-packet one-way delay: 63.726 ms

Loss rate: 0.00%

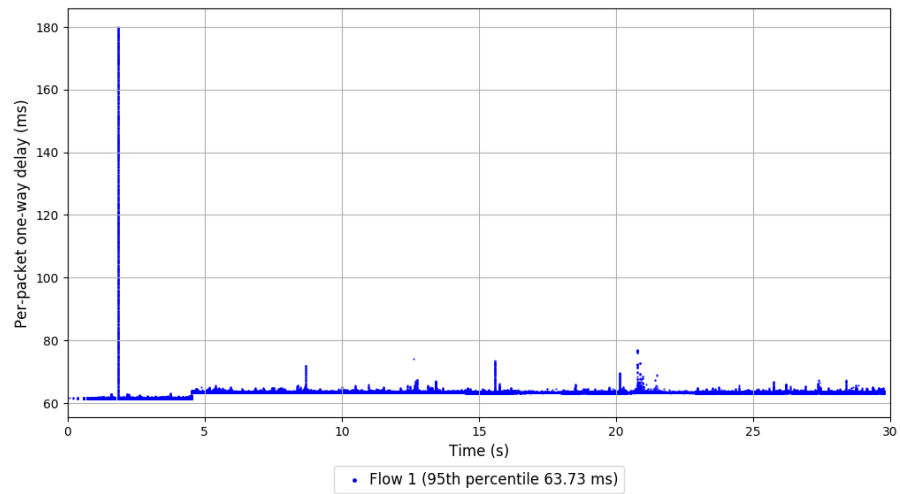
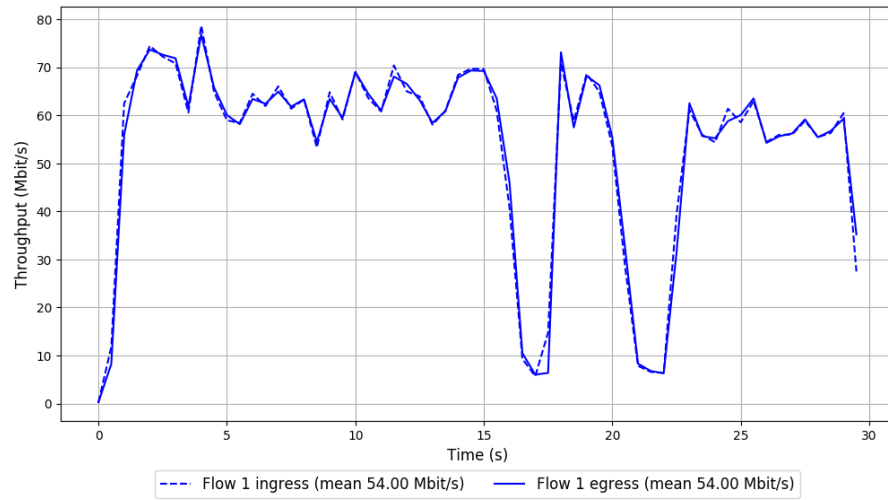
-- Flow 1:

Average throughput: 54.00 Mbit/s

95th percentile per-packet one-way delay: 63.726 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 09:55:51

End at: 2017-11-21 09:56:21

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 63.703 ms

Loss rate: 0.00%

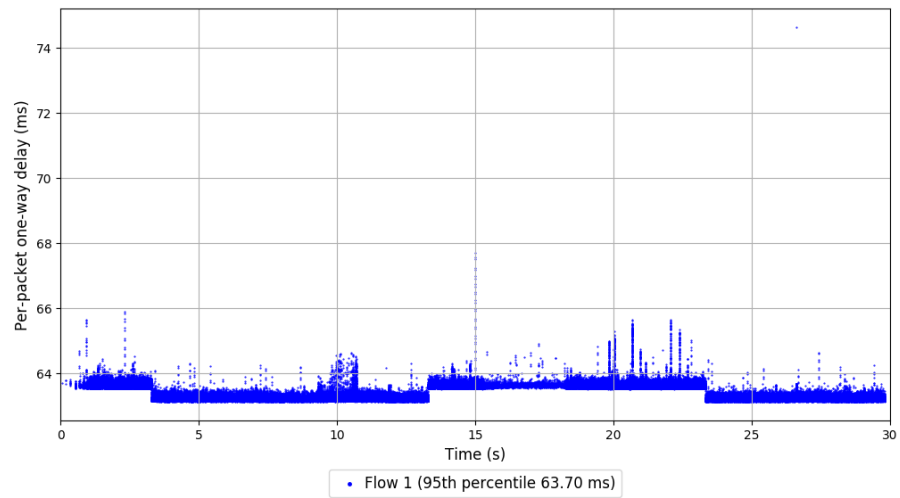
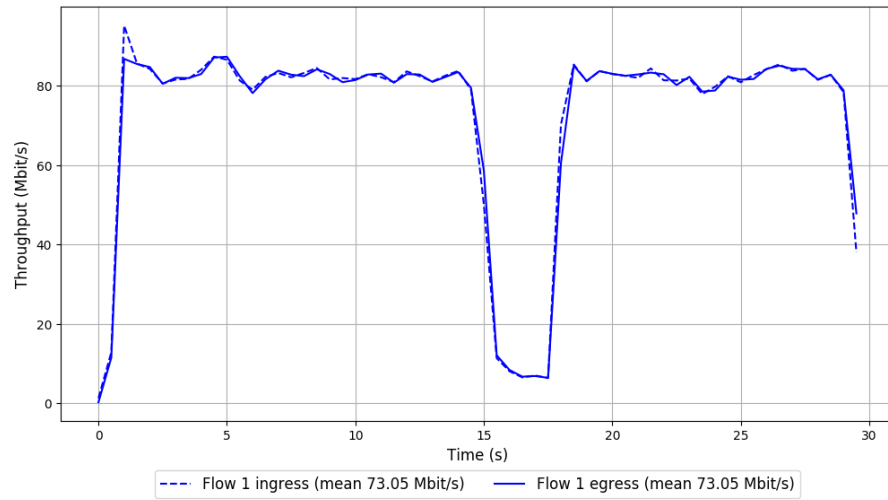
-- Flow 1:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 63.703 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 10:06:12

End at: 2017-11-21 10:06:42

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.13 Mbit/s

95th percentile per-packet one-way delay: 63.526 ms

Loss rate: 0.00%

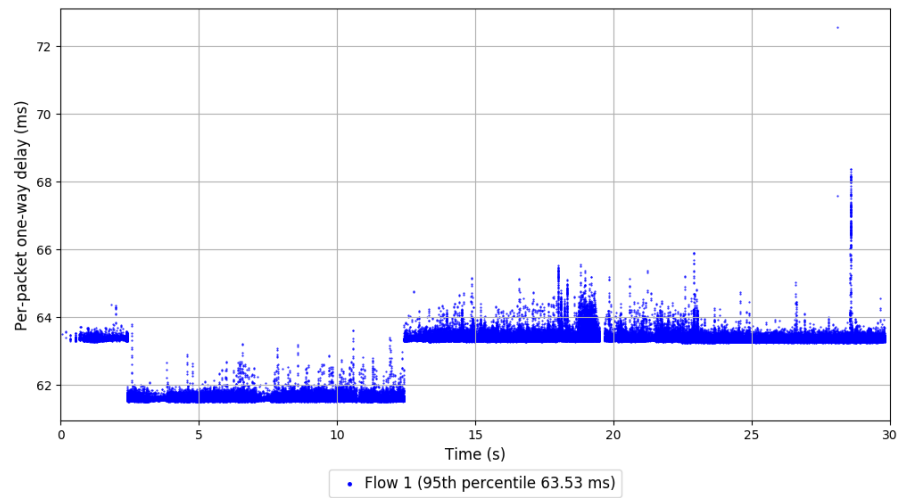
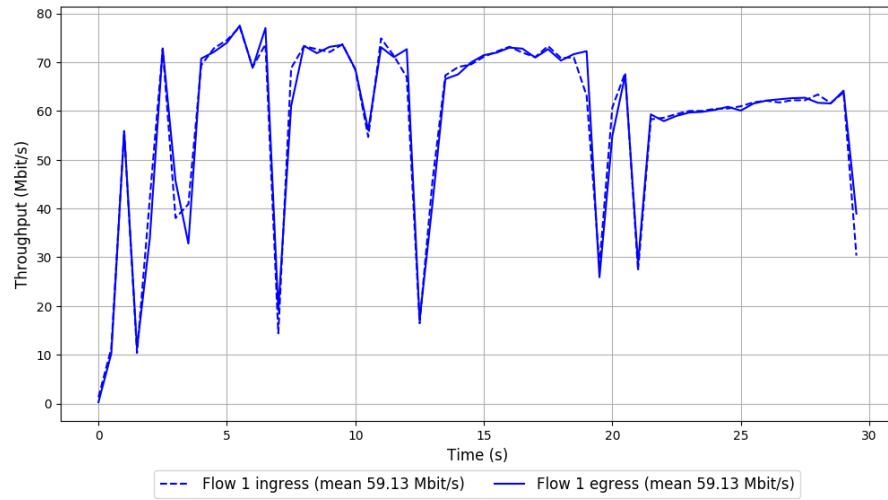
-- Flow 1:

Average throughput: 59.13 Mbit/s

95th percentile per-packet one-way delay: 63.526 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 10:16:47

End at: 2017-11-21 10:17:17

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 0.01%

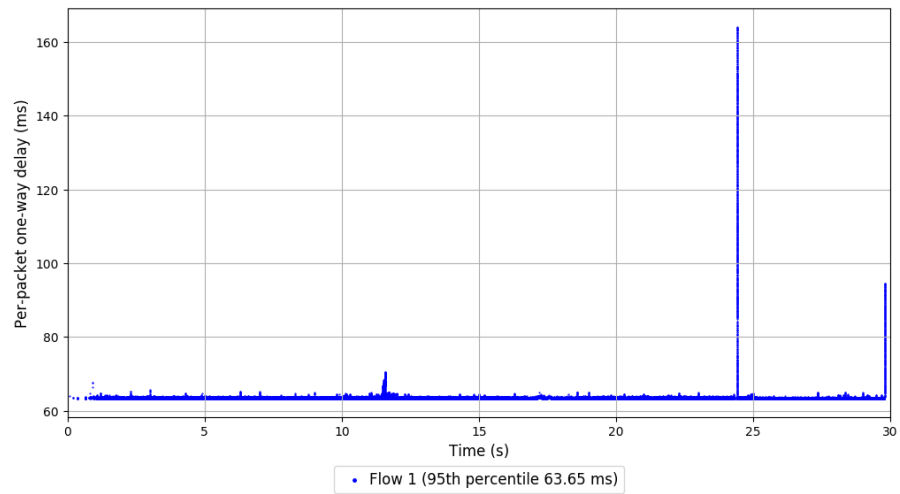
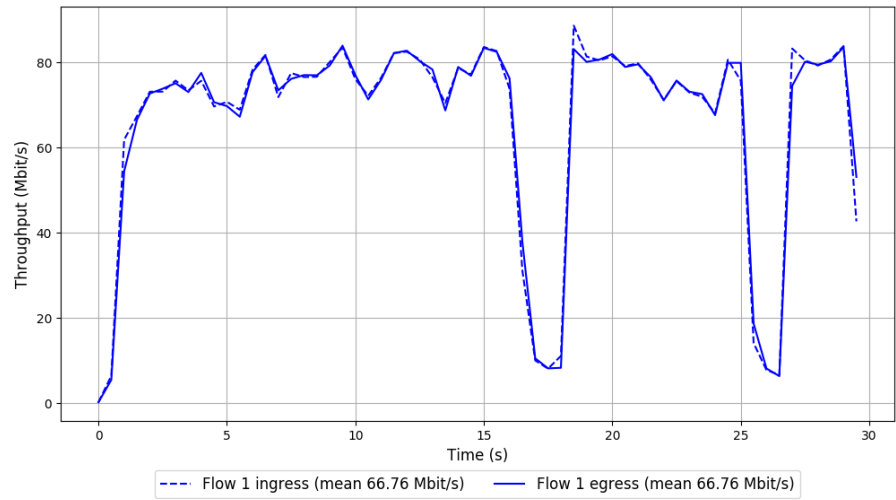
-- Flow 1:

Average throughput: 66.76 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 10:27:19

End at: 2017-11-21 10:27:49

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 63.682 ms

Loss rate: 0.01%

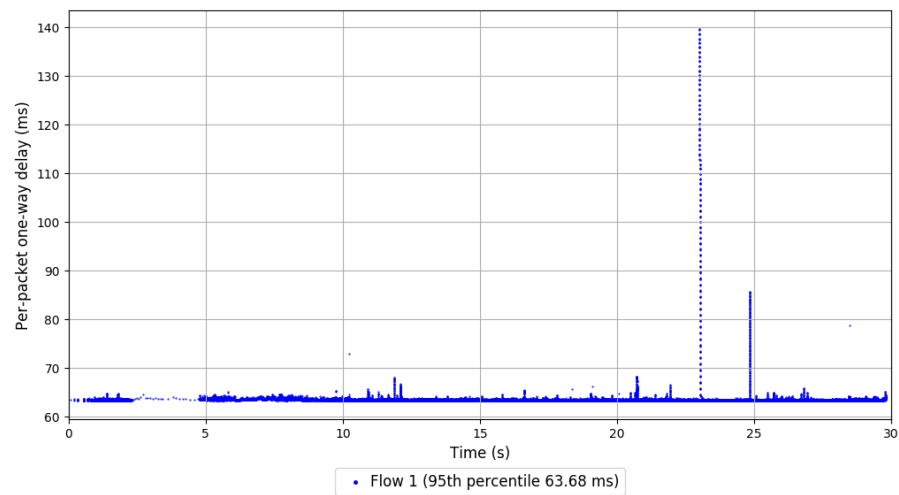
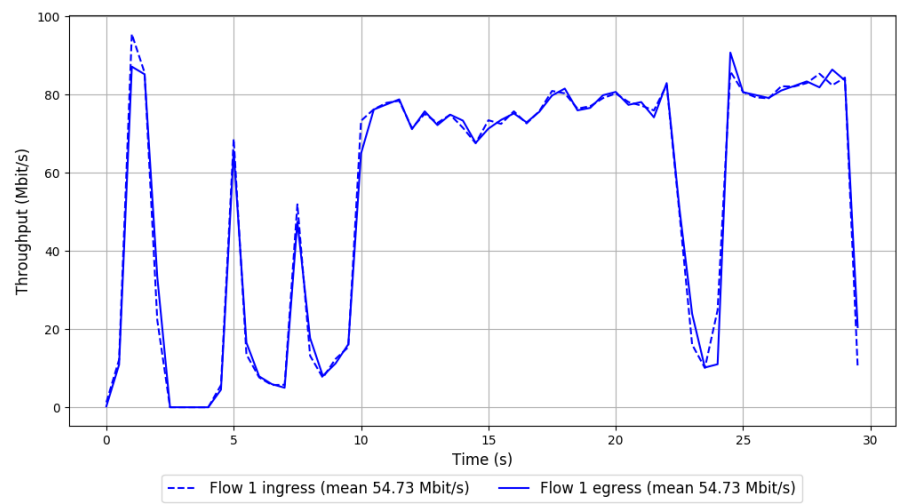
-- Flow 1:

Average throughput: 54.73 Mbit/s

95th percentile per-packet one-way delay: 63.682 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 10:37:49

End at: 2017-11-21 10:38:19

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.00%

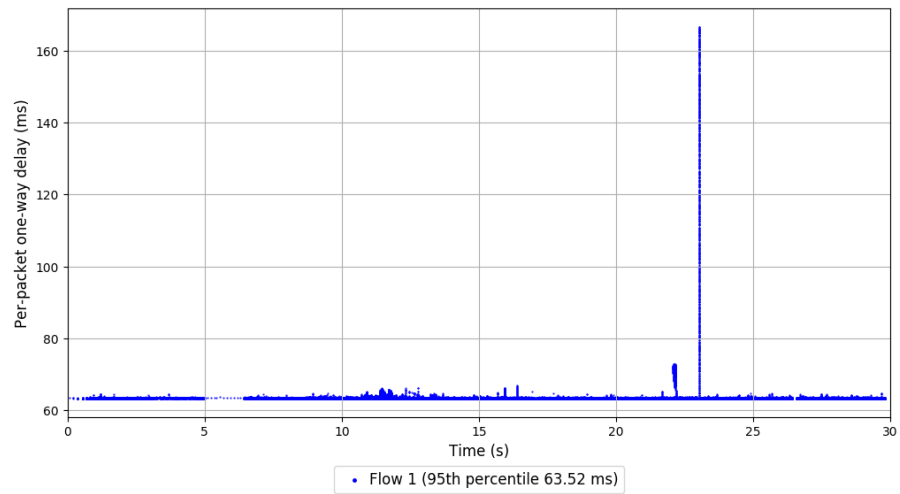
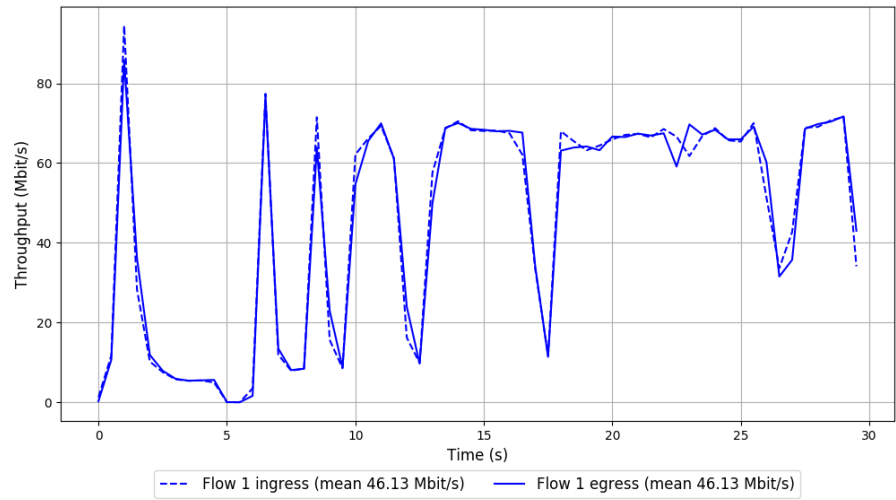
-- Flow 1:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 63.519 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 10:48:01

End at: 2017-11-21 10:48:31

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.50 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 0.00%

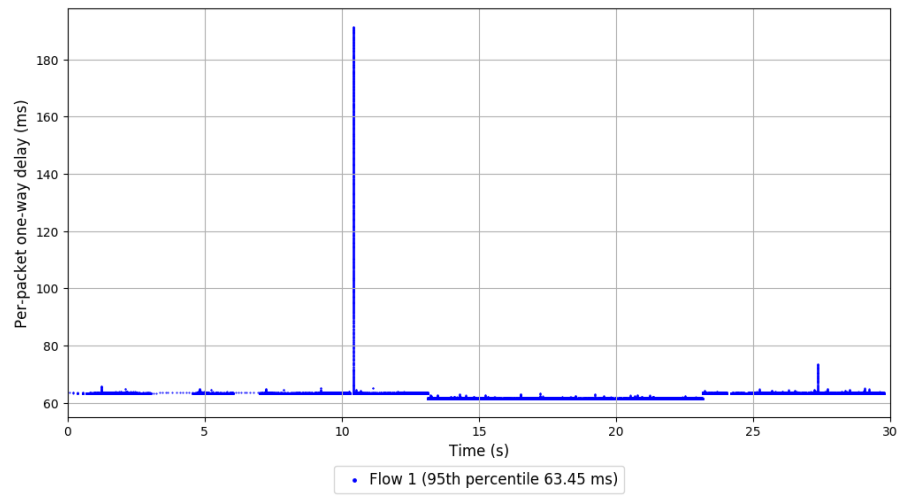
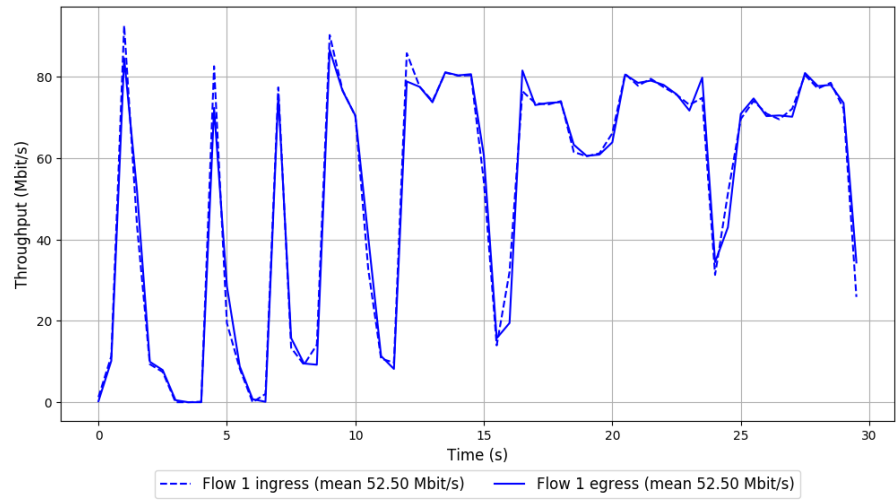
-- Flow 1:

Average throughput: 52.50 Mbit/s

95th percentile per-packet one-way delay: 63.448 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 10:58:02

End at: 2017-11-21 10:58:32

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 63.609 ms

Loss rate: 0.00%

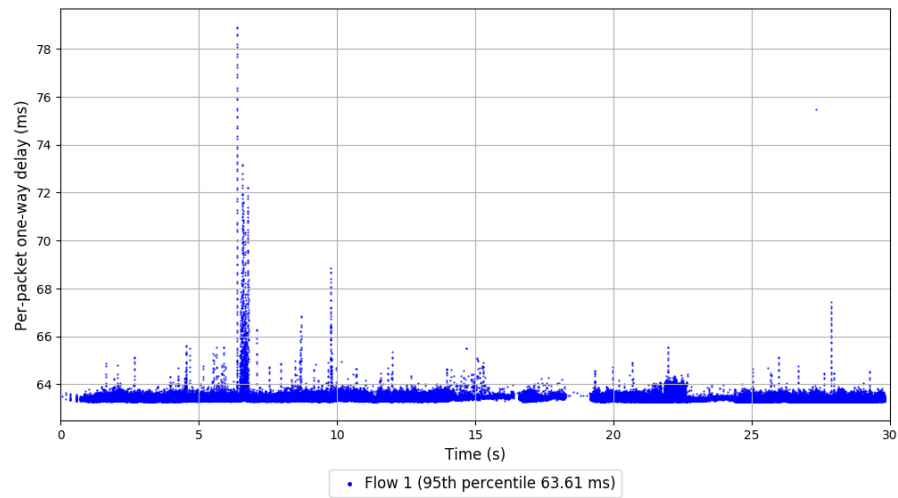
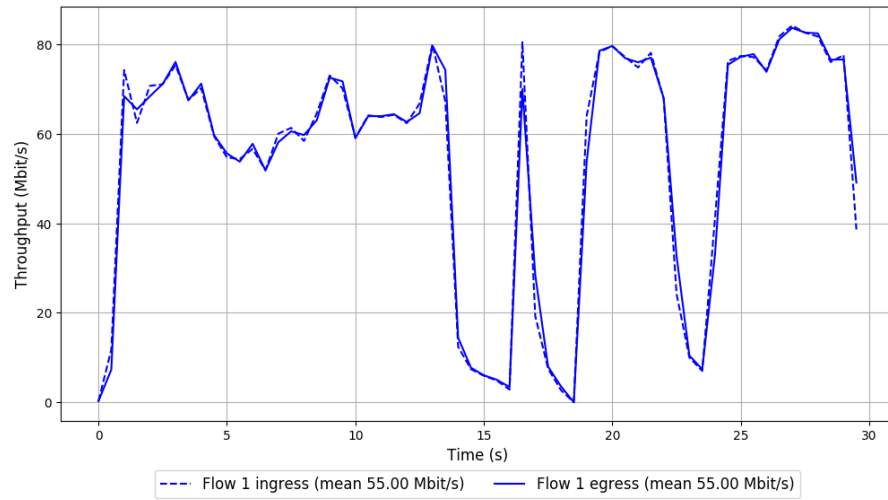
-- Flow 1:

Average throughput: 55.00 Mbit/s

95th percentile per-packet one-way delay: 63.609 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 11:08:31

End at: 2017-11-21 11:09:01

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.76 Mbit/s

95th percentile per-packet one-way delay: 61.673 ms

Loss rate: 0.00%

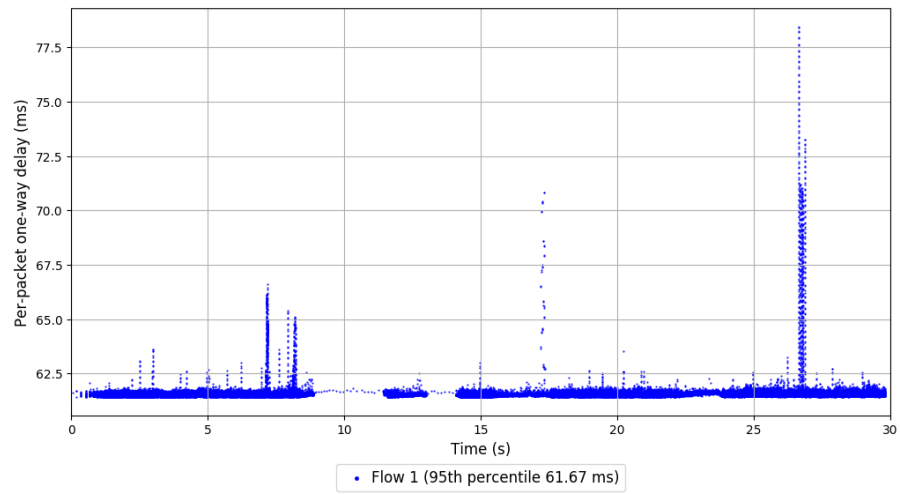
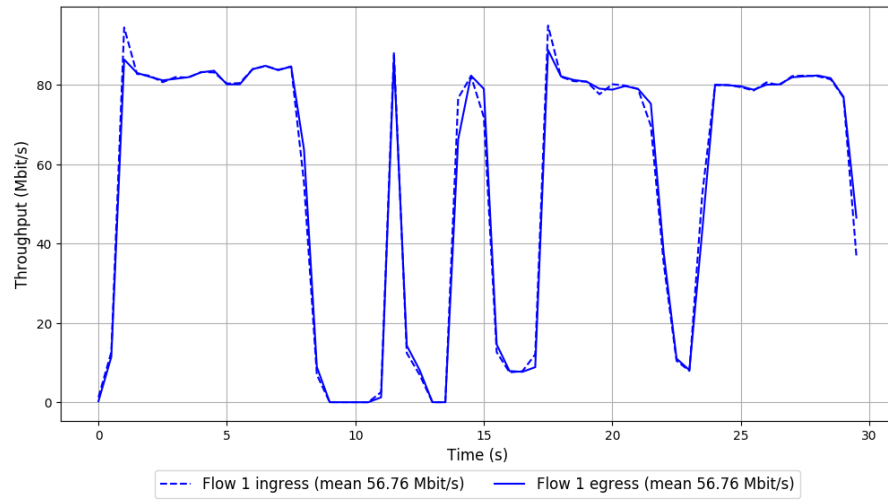
-- Flow 1:

Average throughput: 56.76 Mbit/s

95th percentile per-packet one-way delay: 61.673 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

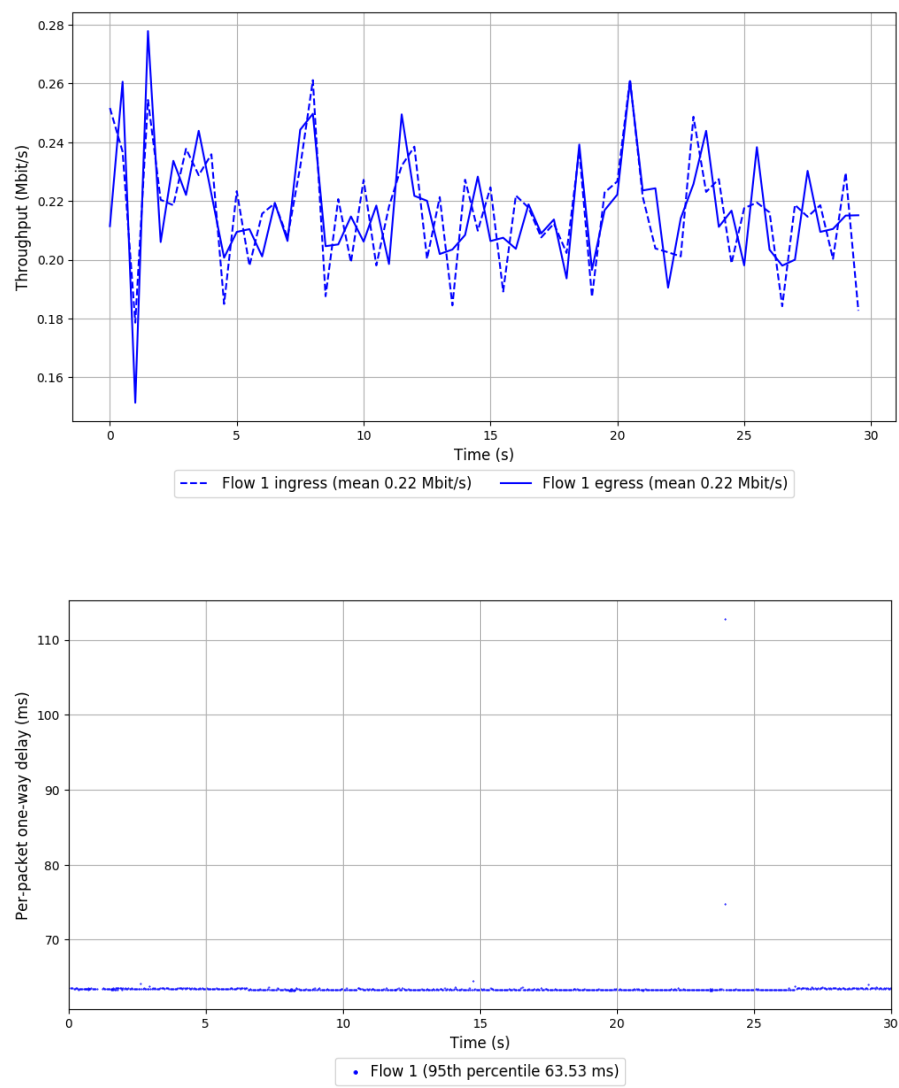


```
Run 1: Statistics of SCReAM

Start at: 2017-11-21 09:39:18
End at: 2017-11-21 09:39:48

# Below is generated by plot.py at 2017-11-21 12:22:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.534 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-11-21 09:49:46

End at: 2017-11-21 09:50:16

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.682 ms

Loss rate: 0.00%

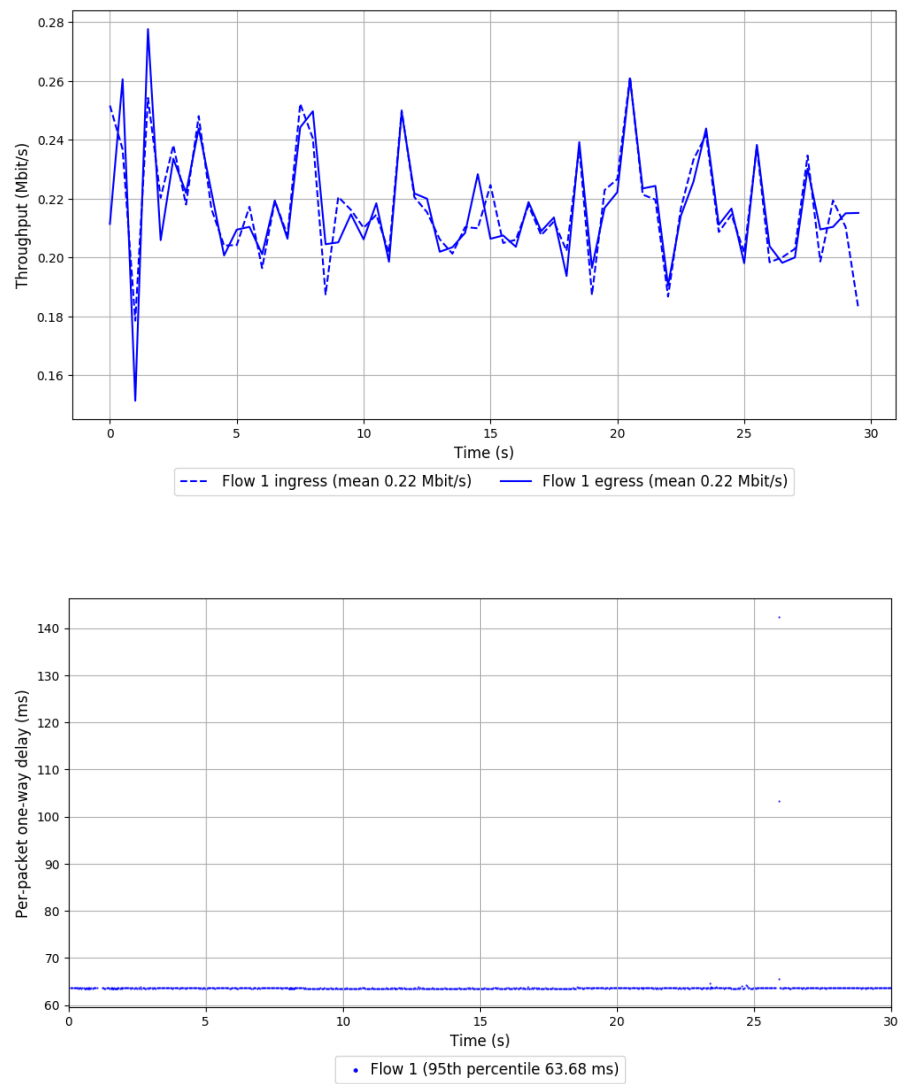
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.682 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-21 10:00:03

End at: 2017-11-21 10:00:33

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.283 ms

Loss rate: 0.00%

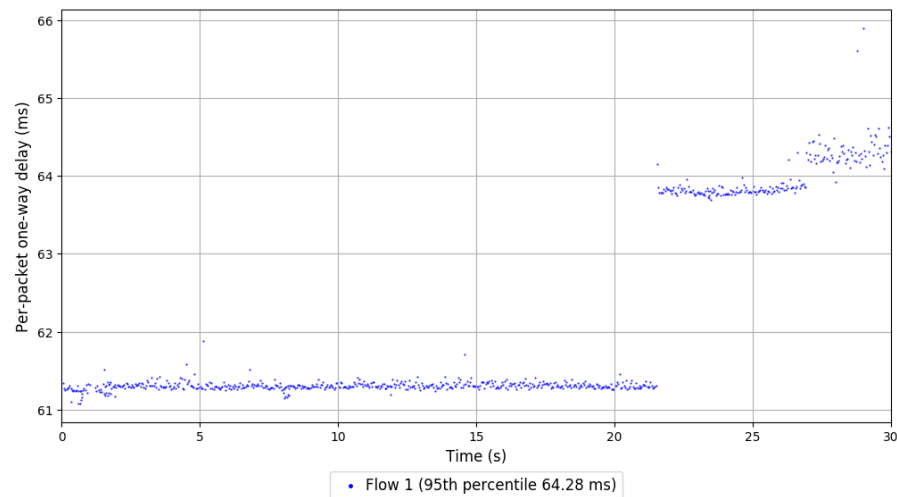
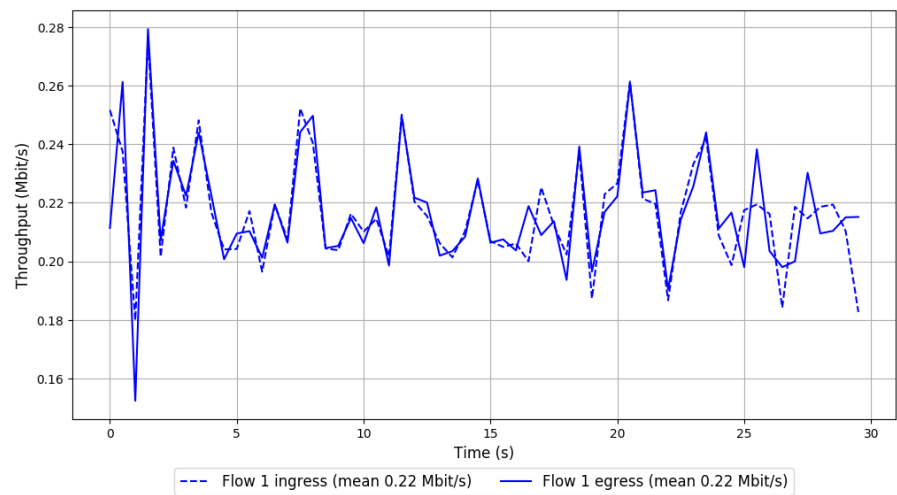
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.283 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

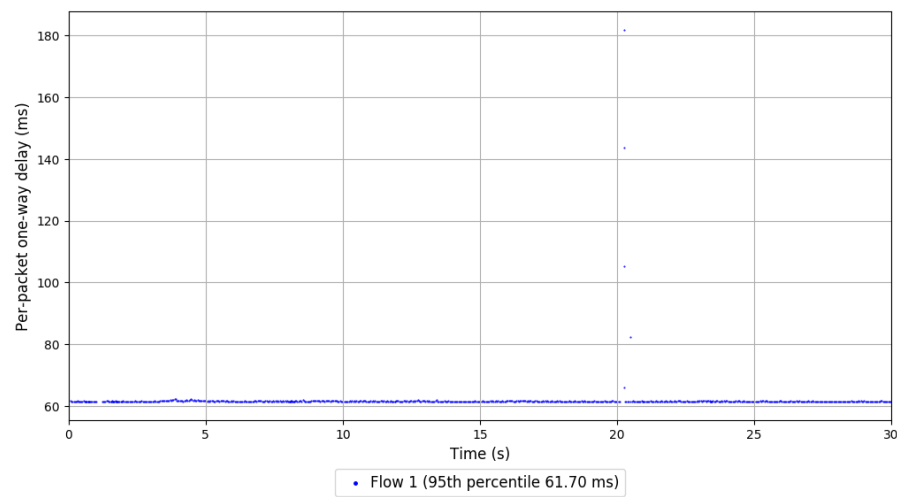
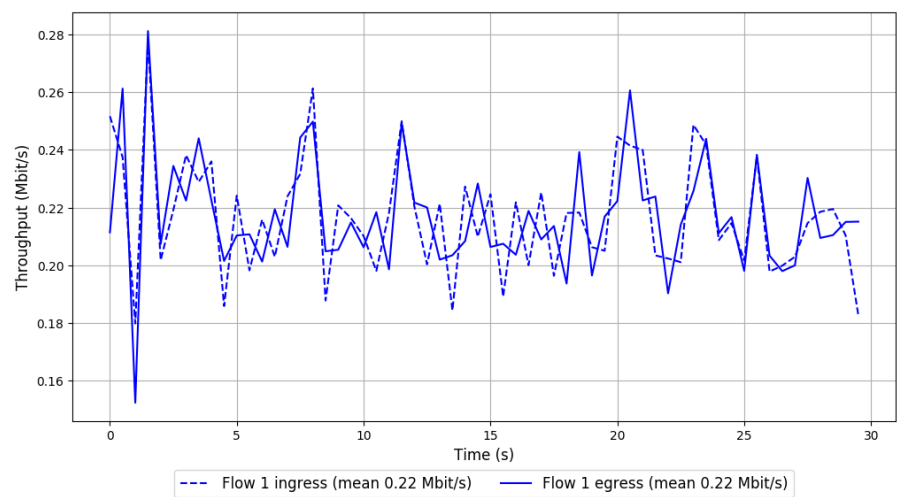


```
Run 4: Statistics of SCReAM

Start at: 2017-11-21 10:10:22
End at: 2017-11-21 10:10:52

# Below is generated by plot.py at 2017-11-21 12:22:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.698 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.698 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-21 10:20:58

End at: 2017-11-21 10:21:28

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.567 ms

Loss rate: 0.00%

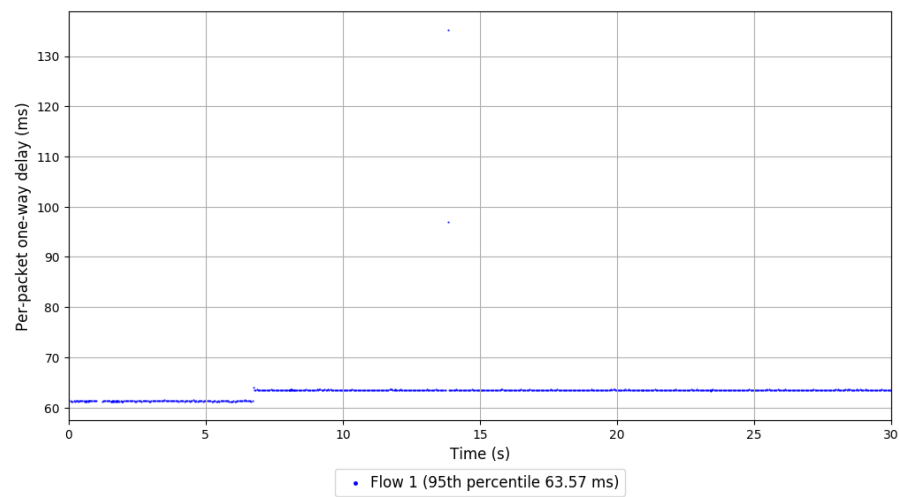
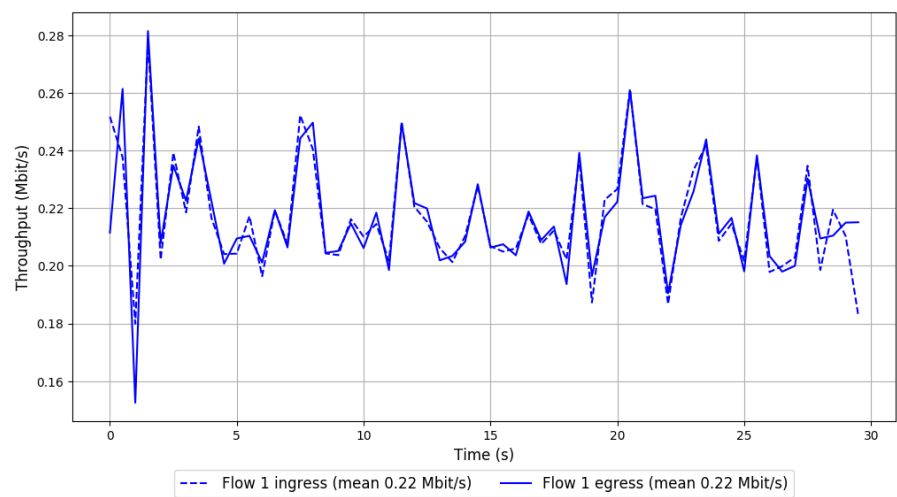
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.567 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-21 10:31:24

End at: 2017-11-21 10:31:54

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.184 ms

Loss rate: 0.00%

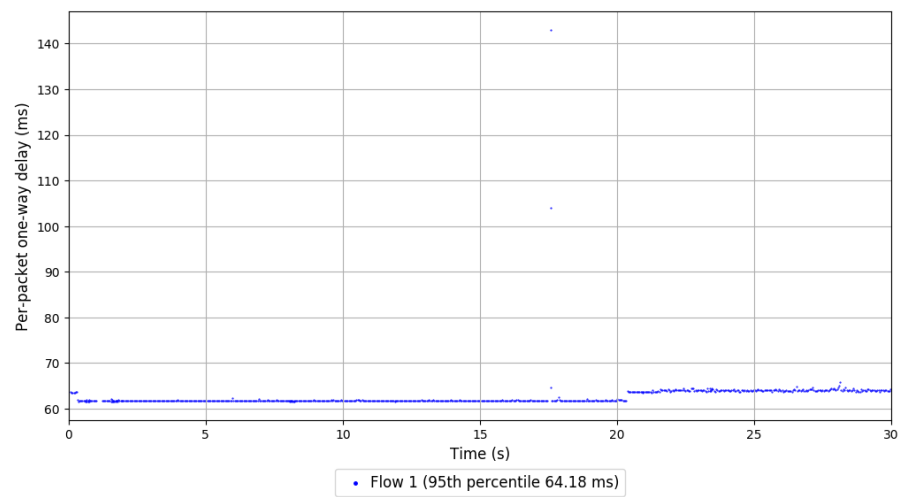
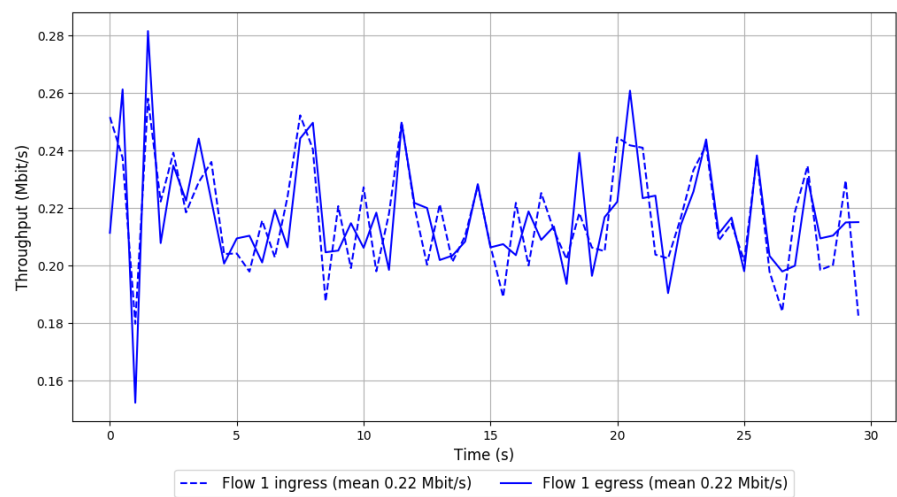
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.184 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-21 10:41:59

End at: 2017-11-21 10:42:29

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.667 ms

Loss rate: 0.00%

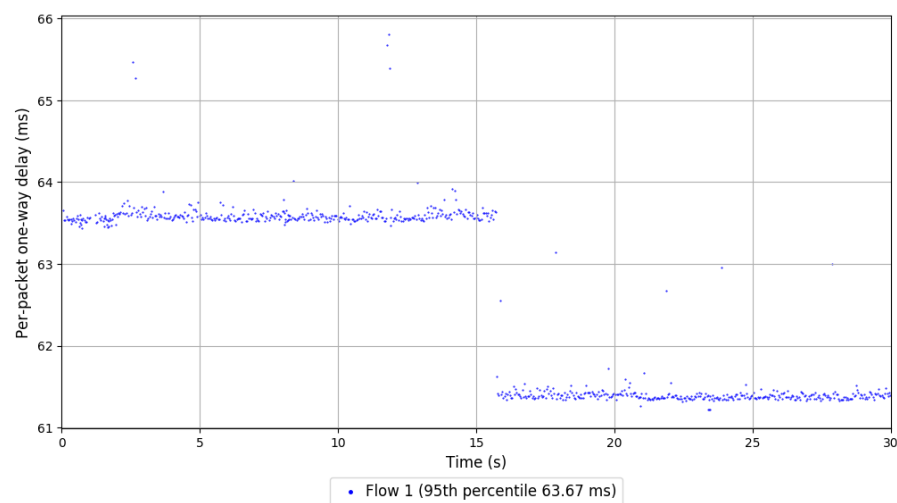
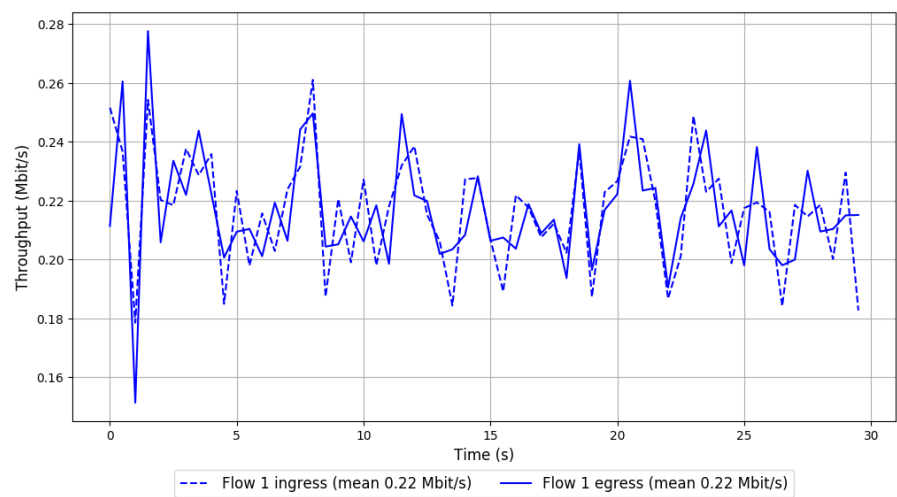
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.667 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-21 10:52:11

End at: 2017-11-21 10:52:41

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.00%

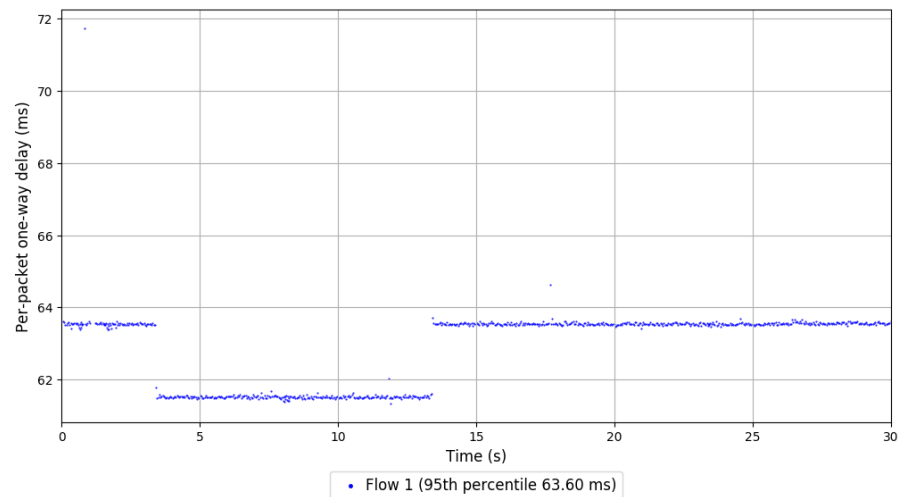
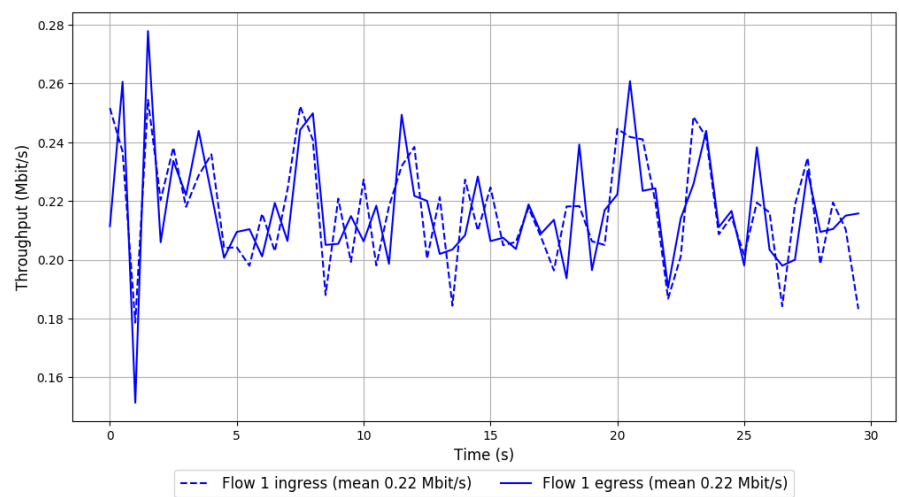
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-21 11:02:13

End at: 2017-11-21 11:02:43

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.798 ms

Loss rate: 0.00%

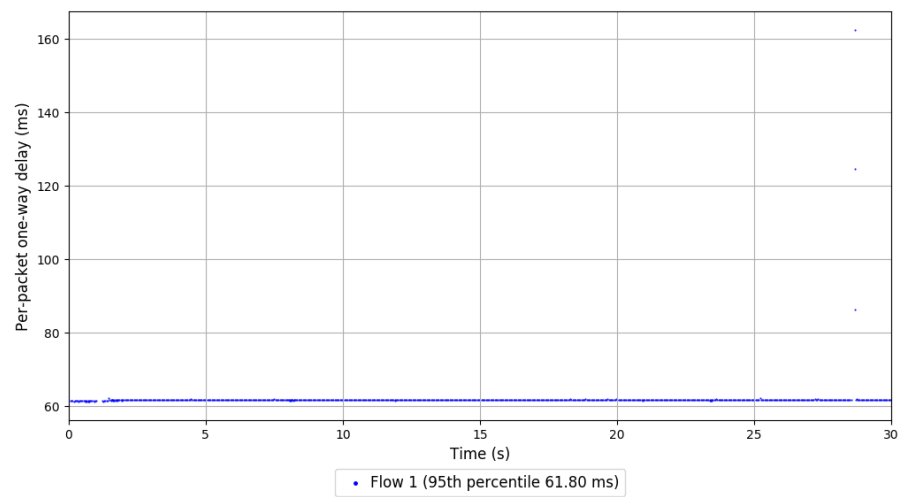
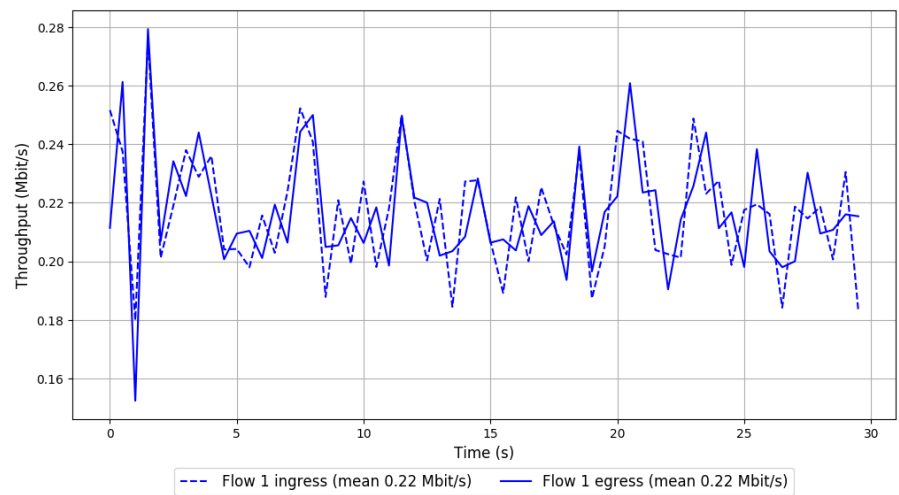
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.798 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-11-21 11:12:42

End at: 2017-11-21 11:13:12

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.064 ms

Loss rate: 0.00%

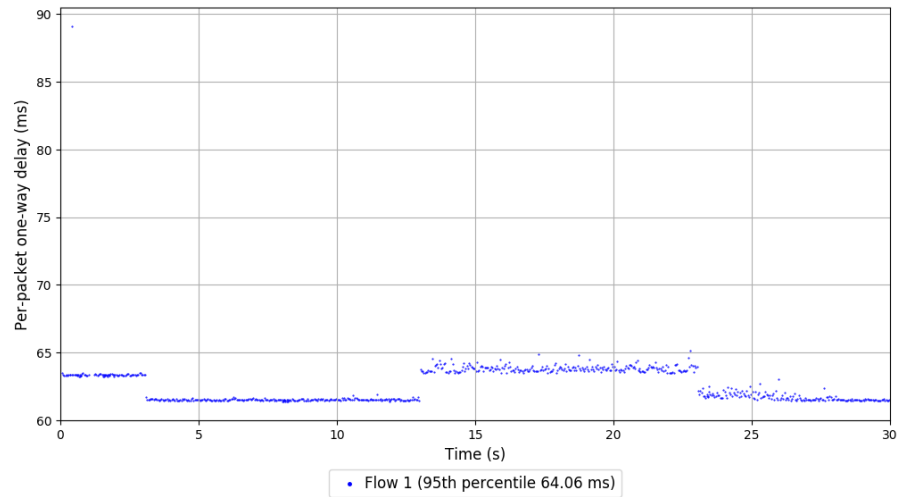
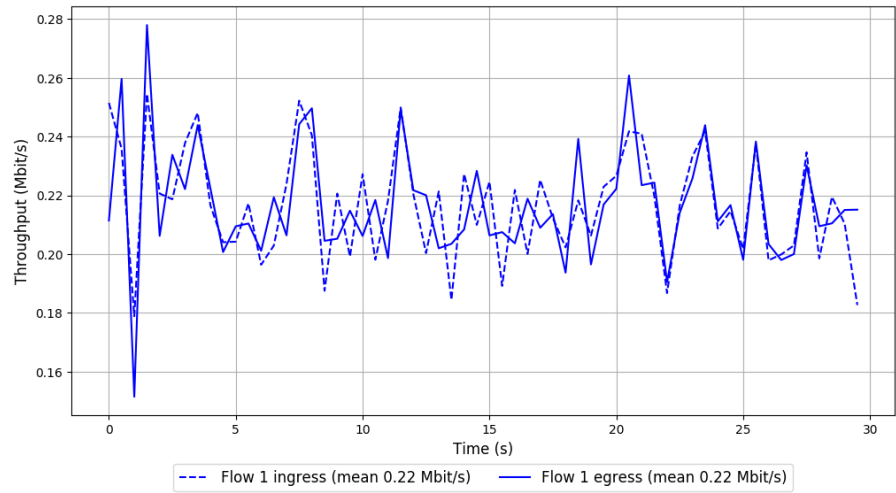
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.064 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

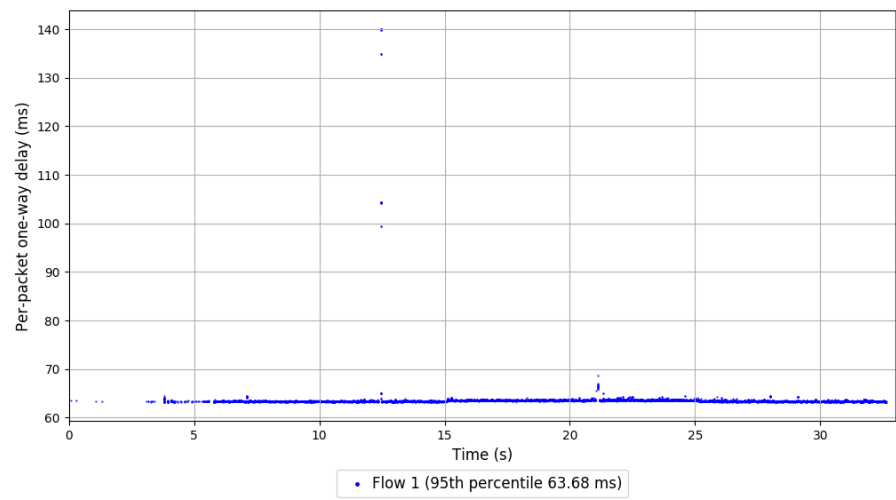
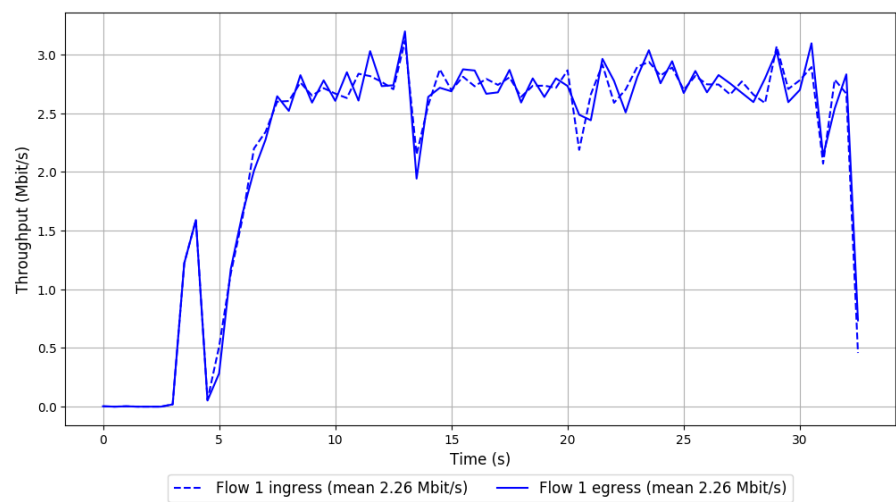


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-21 09:38:02
End at: 2017-11-21 09:38:32

# Below is generated by plot.py at 2017-11-21 12:22:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 63.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 63.676 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-21 09:48:30

End at: 2017-11-21 09:49:00

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.492 ms

Loss rate: 0.00%

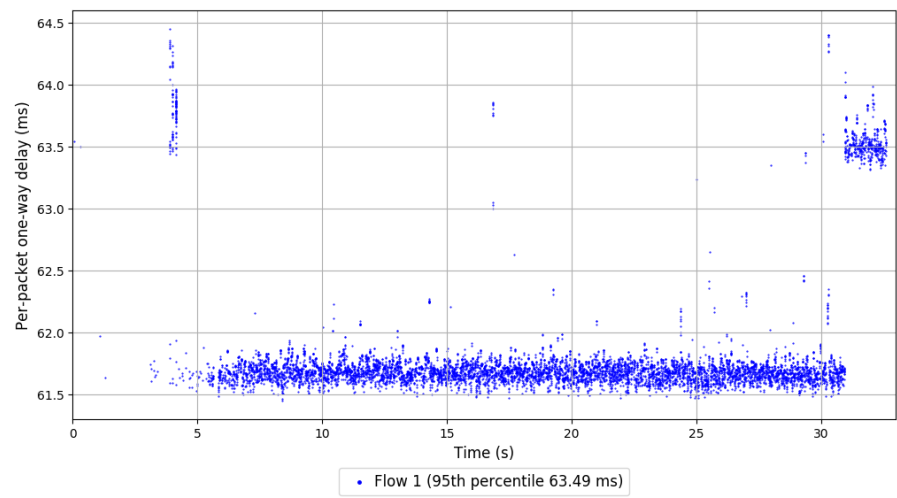
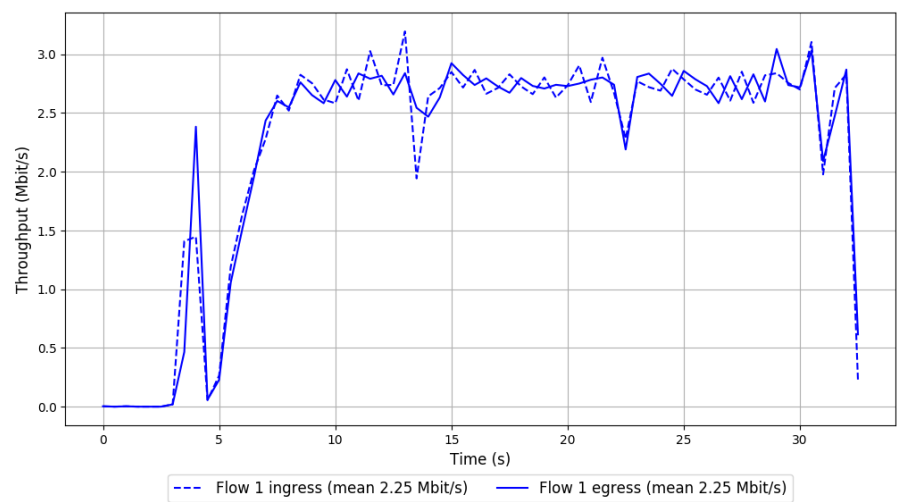
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.492 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-21 09:58:47

End at: 2017-11-21 09:59:17

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.851 ms

Loss rate: 0.00%

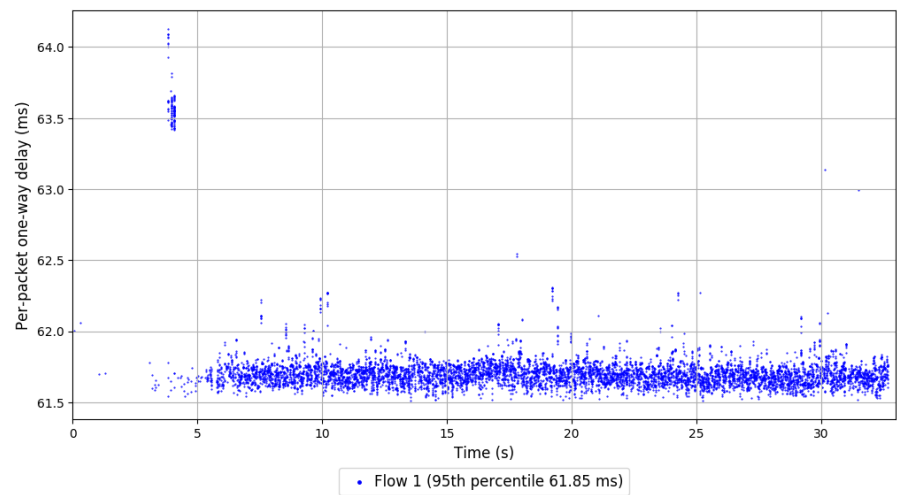
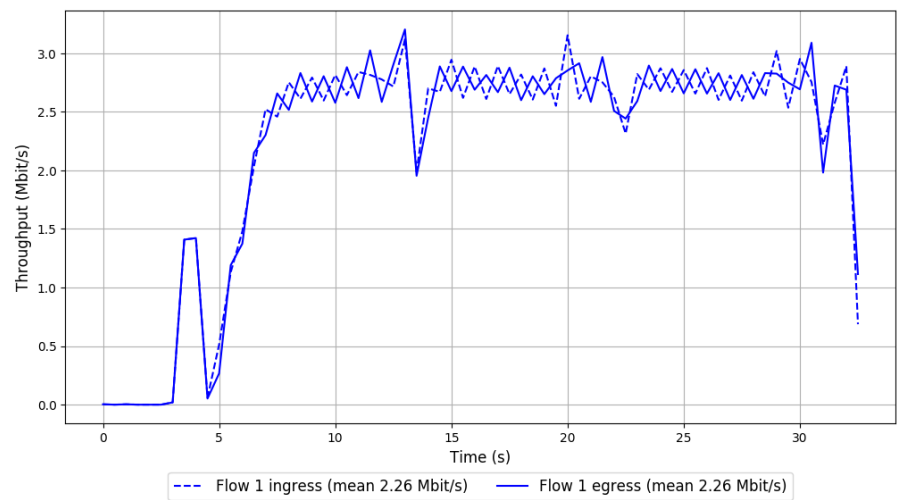
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 61.851 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 10:09:06

End at: 2017-11-21 10:09:36

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.00%

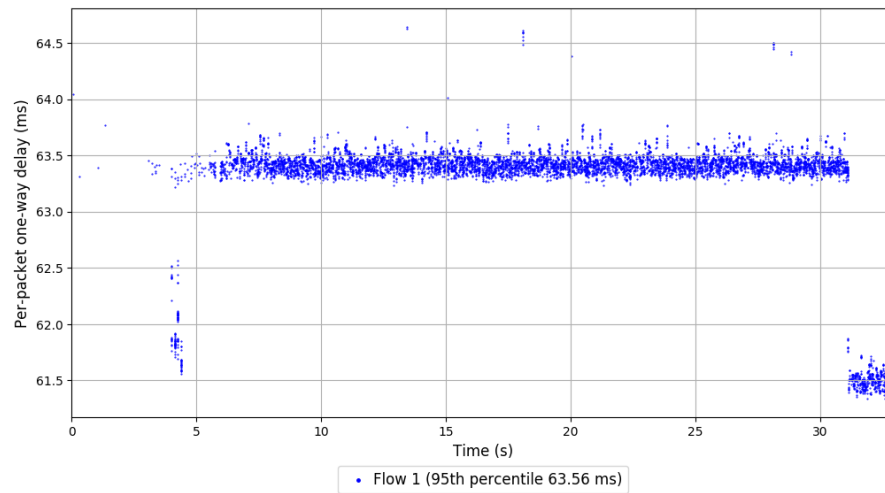
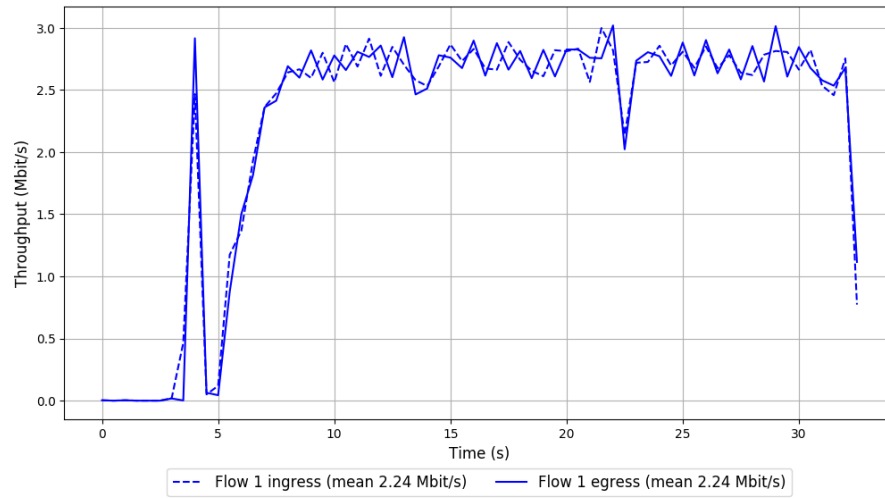
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 10:19:42

End at: 2017-11-21 10:20:12

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 61.820 ms

Loss rate: 0.00%

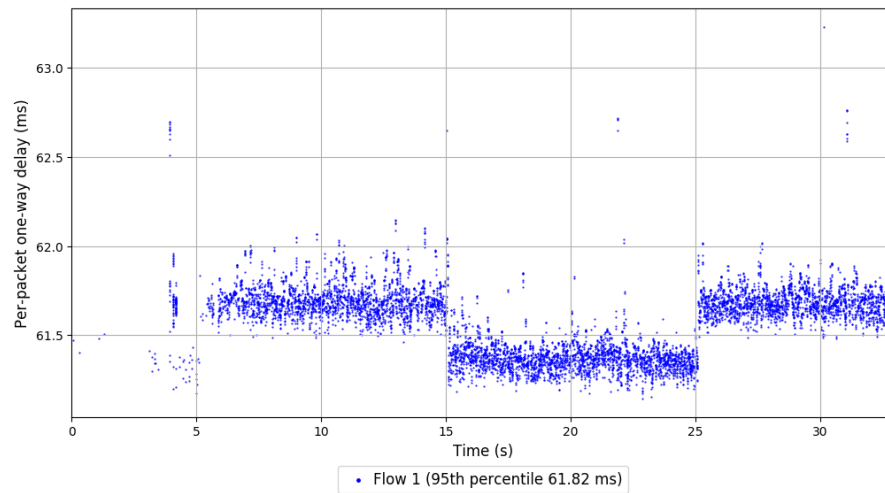
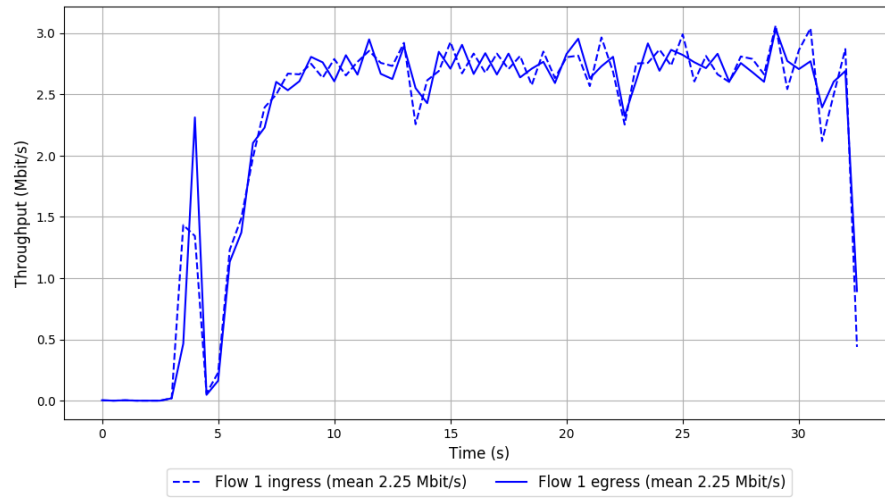
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 61.820 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 10:30:08

End at: 2017-11-21 10:30:38

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 63.784 ms

Loss rate: 0.45%

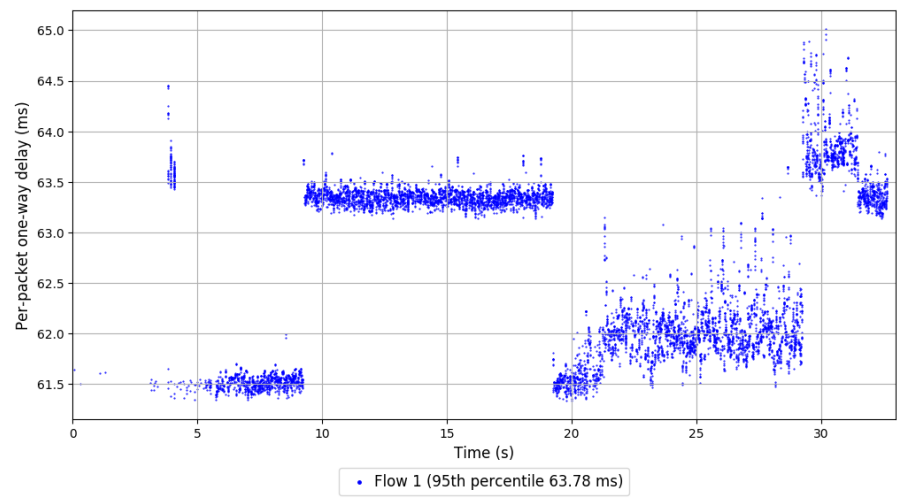
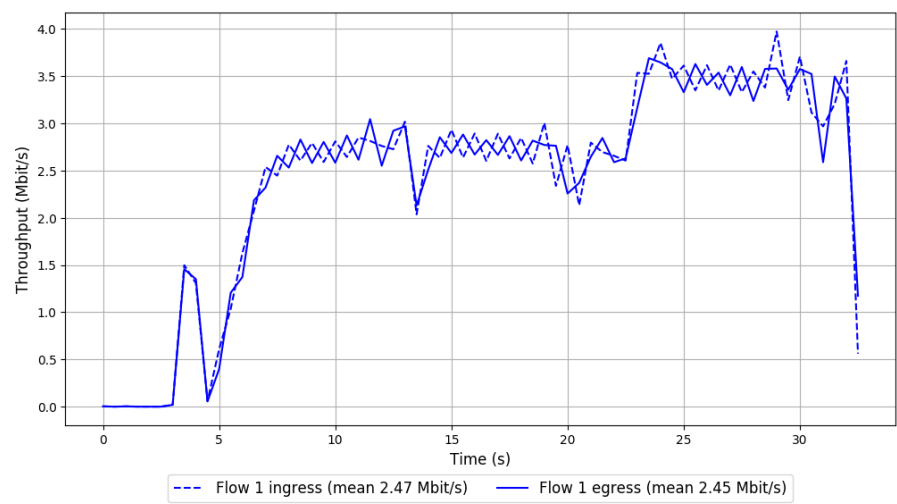
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 63.784 ms

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 10:40:43

End at: 2017-11-21 10:41:13

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.655 ms

Loss rate: 0.00%

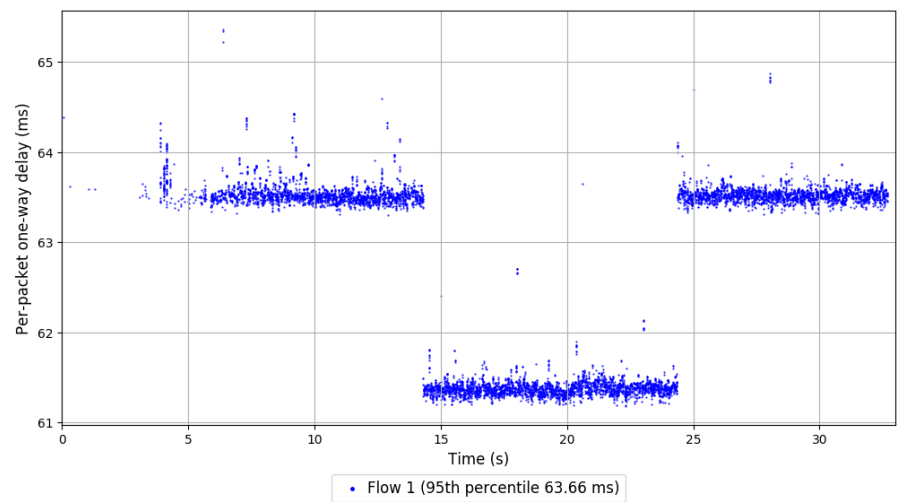
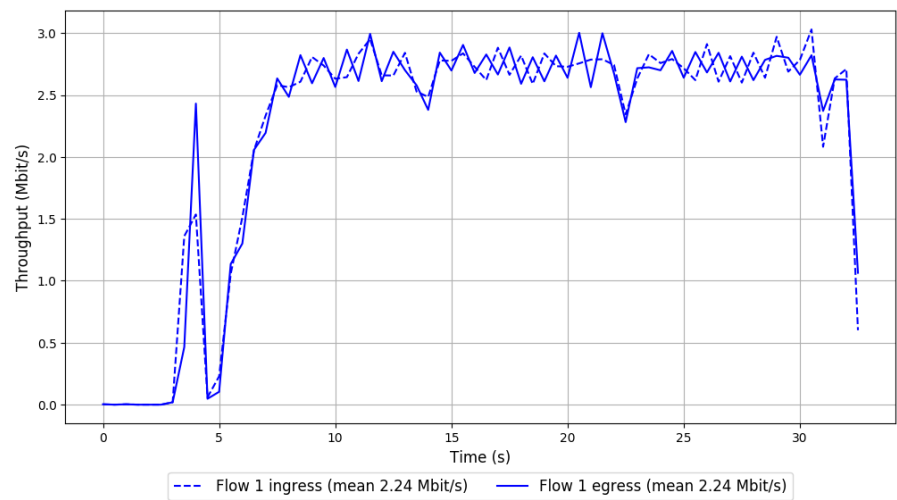
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.655 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 10:50:55

End at: 2017-11-21 10:51:25

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.677 ms

Loss rate: 0.00%

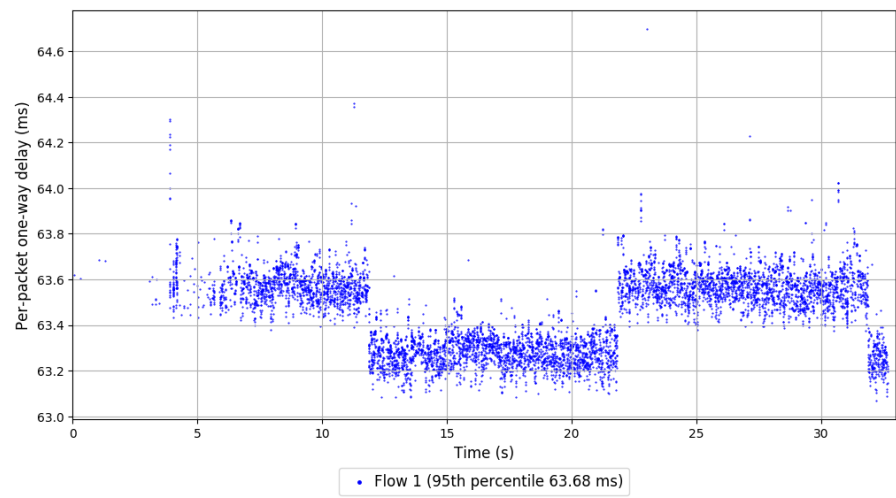
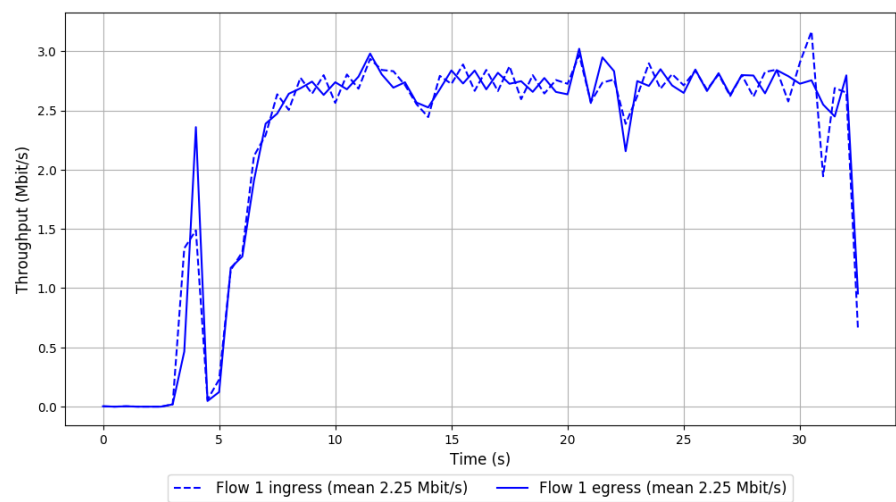
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.677 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 11:00:57

End at: 2017-11-21 11:01:27

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.777 ms

Loss rate: 0.00%

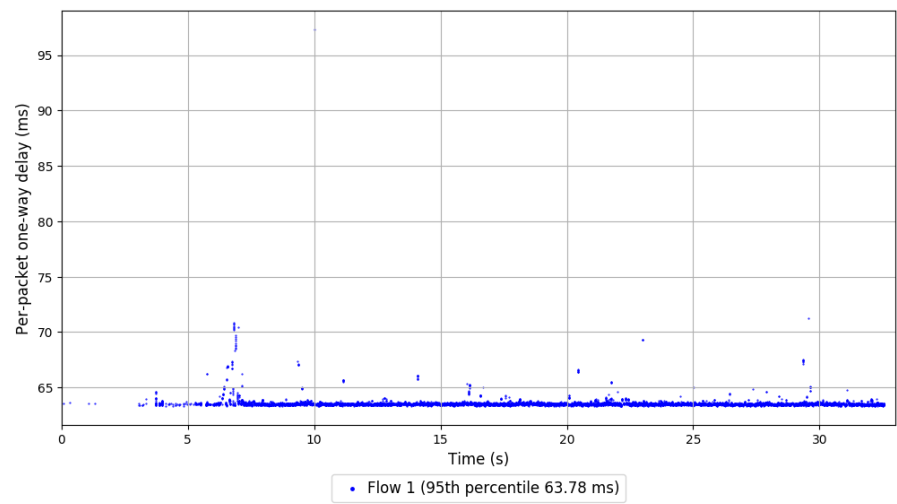
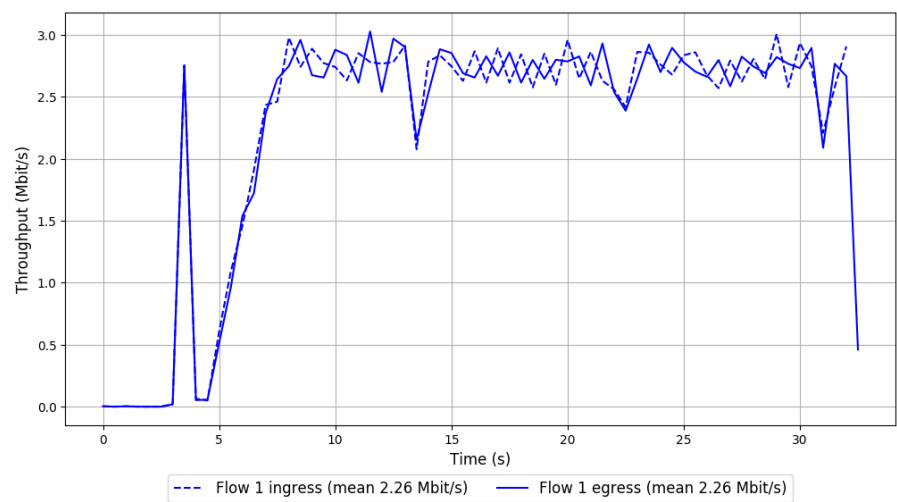
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.777 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 11:11:26

End at: 2017-11-21 11:11:56

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.631 ms

Loss rate: 0.00%

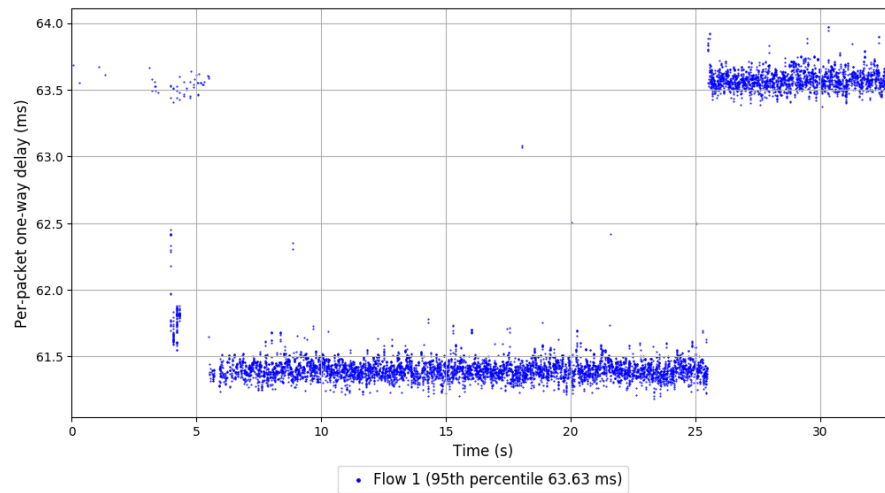
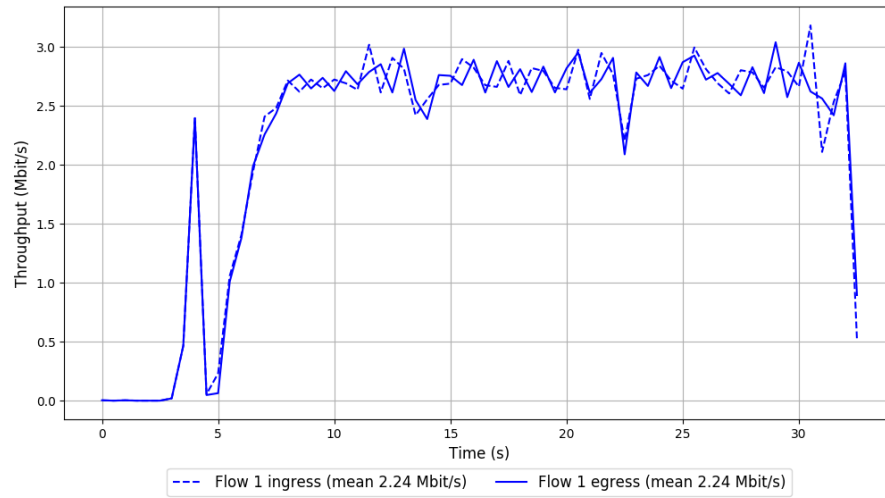
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 63.631 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-21 09:38:40

End at: 2017-11-21 09:39:10

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 63.312 ms

Loss rate: 0.19%

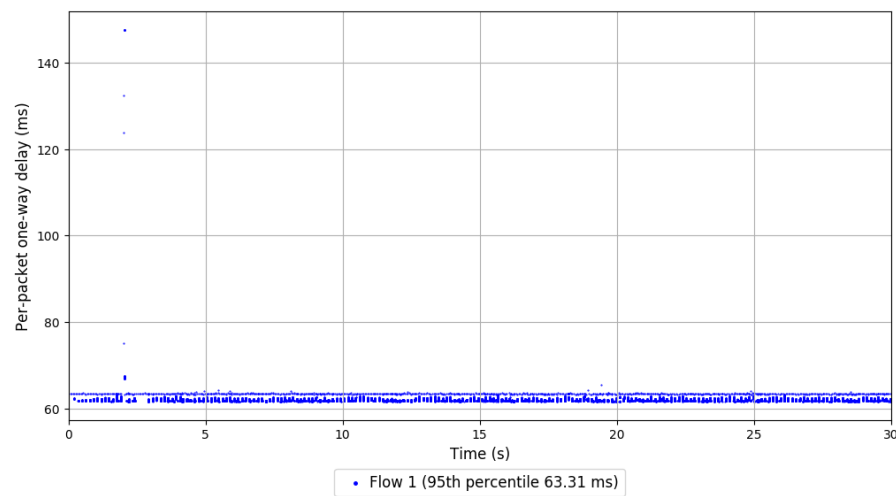
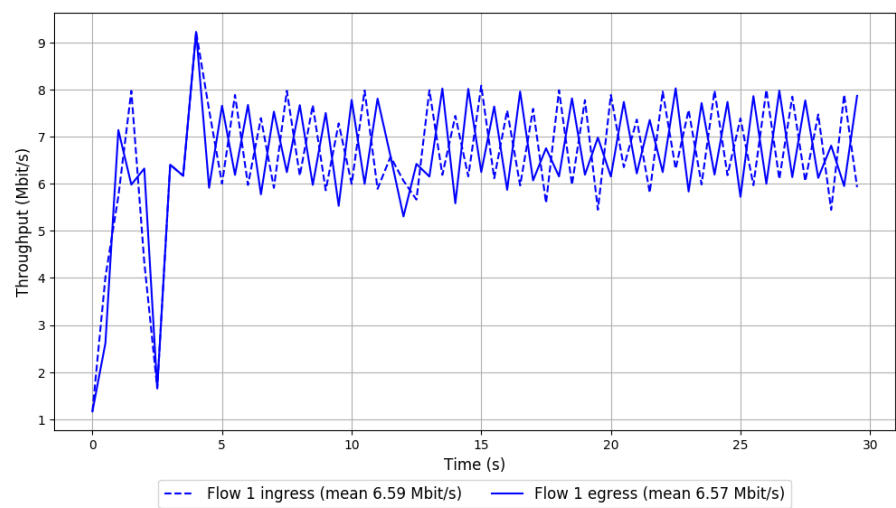
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 63.312 ms

Loss rate: 0.19%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-21 09:49:08

End at: 2017-11-21 09:49:38

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.381 ms

Loss rate: 0.01%

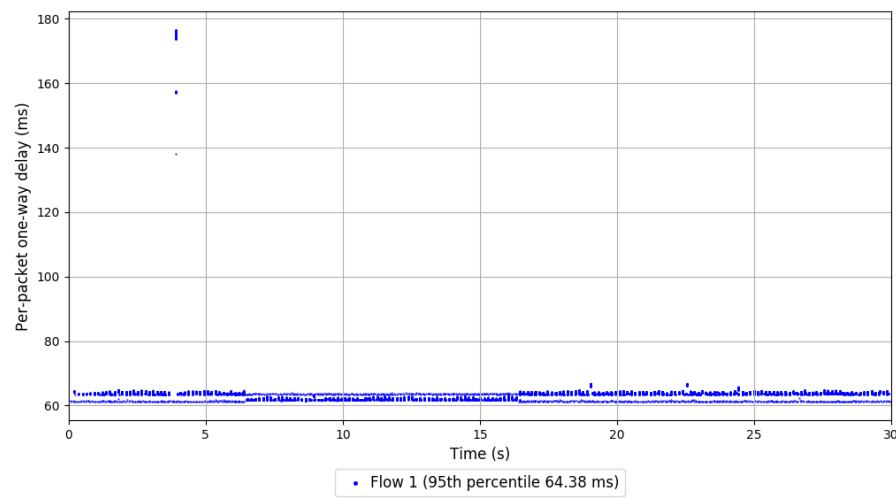
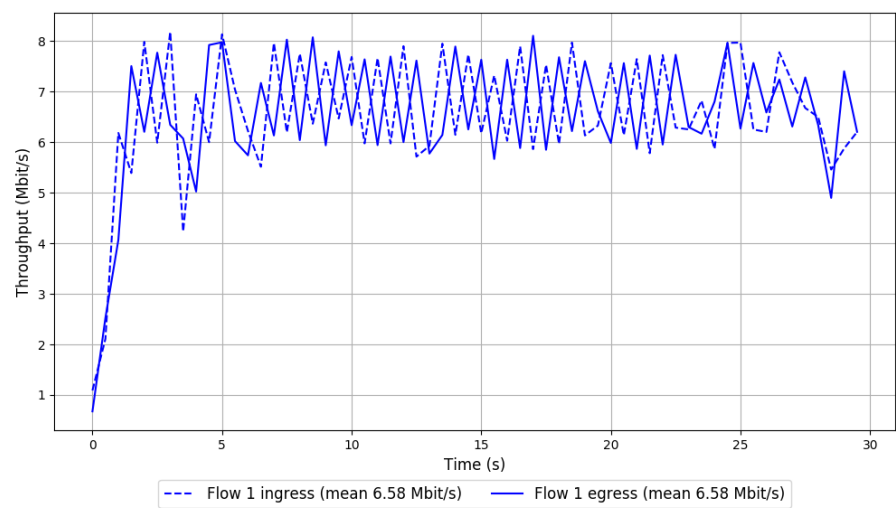
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.381 ms

Loss rate: 0.01%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 09:59:25

End at: 2017-11-21 09:59:55

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 64.270 ms

Loss rate: 0.07%

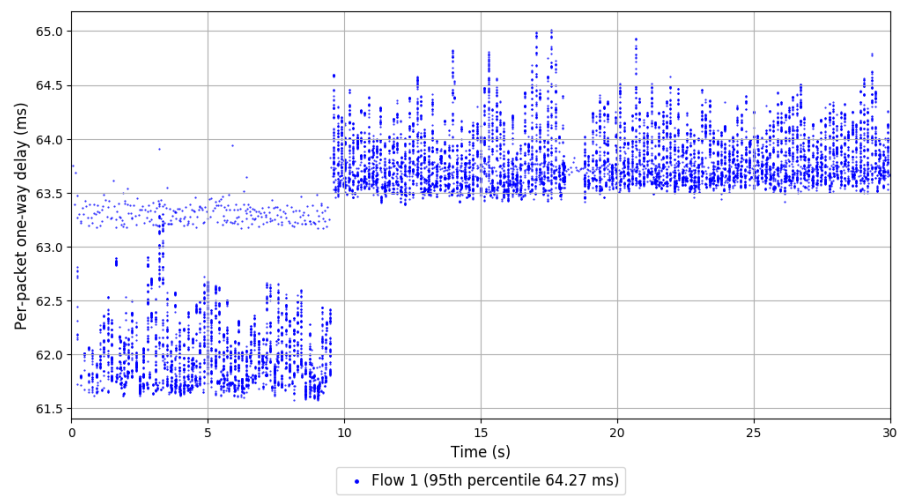
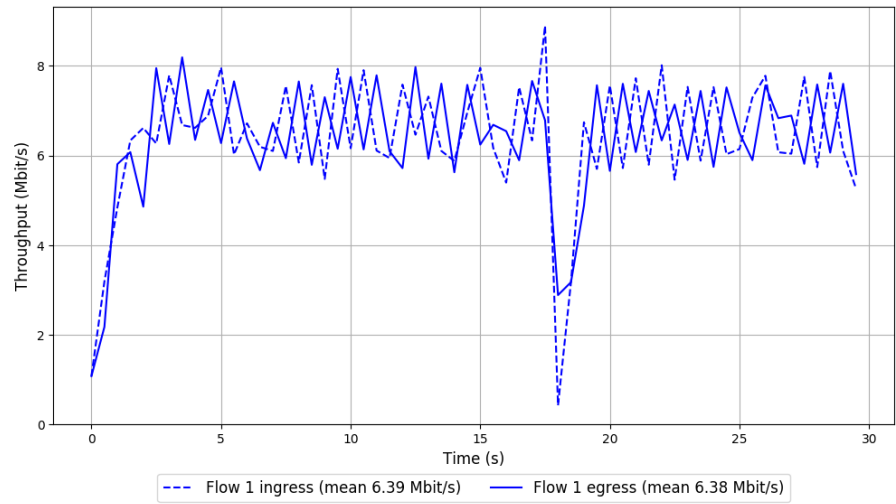
-- Flow 1:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 64.270 ms

Loss rate: 0.07%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 10:09:44

End at: 2017-11-21 10:10:14

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.284 ms

Loss rate: 0.10%

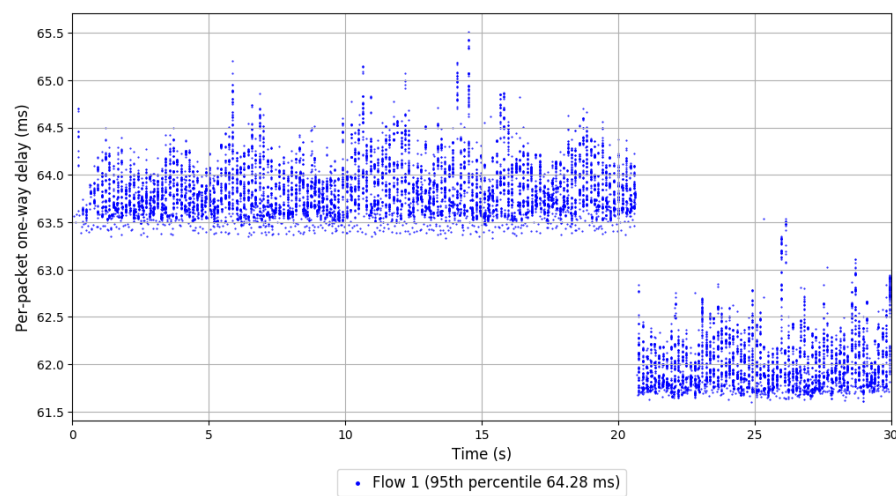
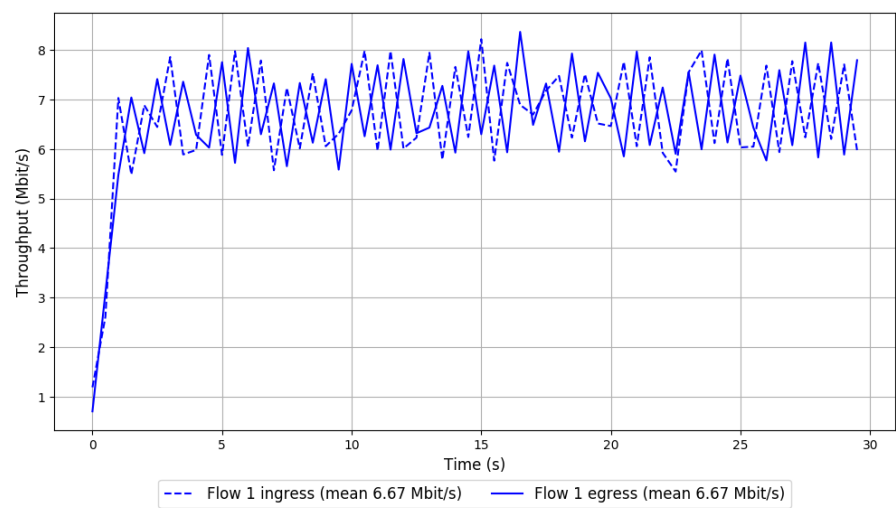
-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.284 ms

Loss rate: 0.10%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 10:20:20

End at: 2017-11-21 10:20:50

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.133 ms

Loss rate: 0.08%

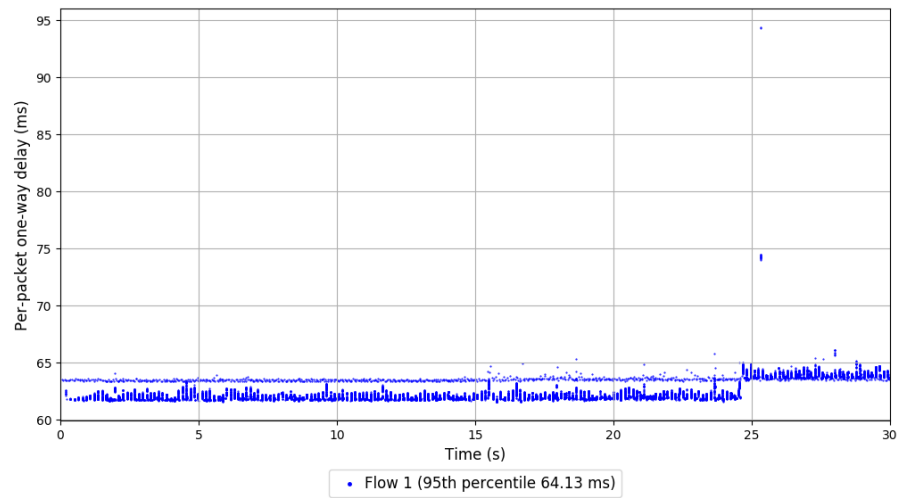
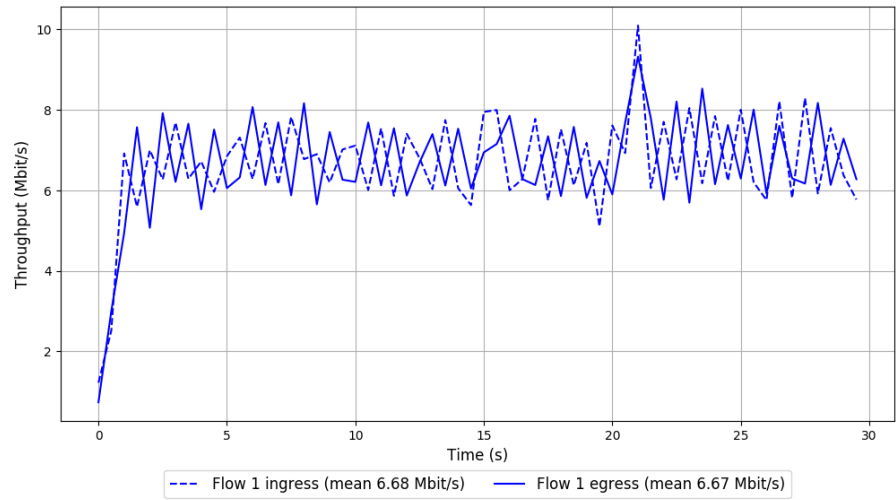
-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.133 ms

Loss rate: 0.08%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 10:30:46

End at: 2017-11-21 10:31:16

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.124 ms

Loss rate: 0.34%

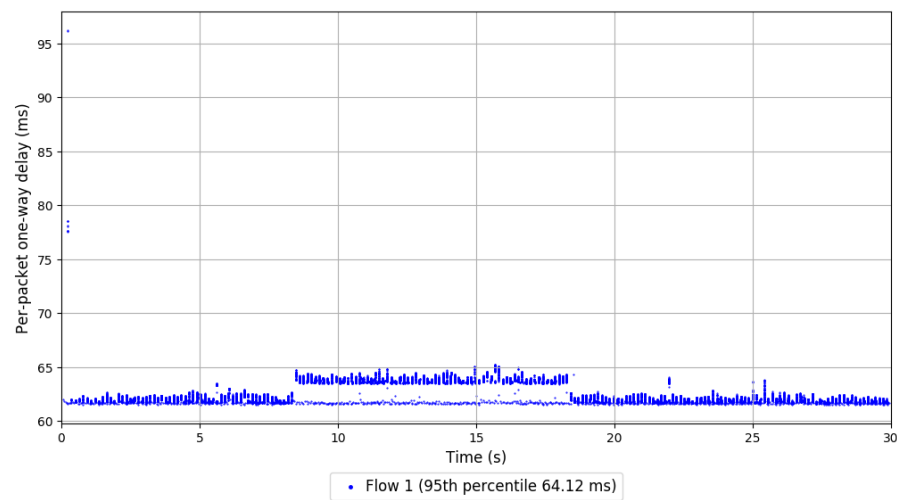
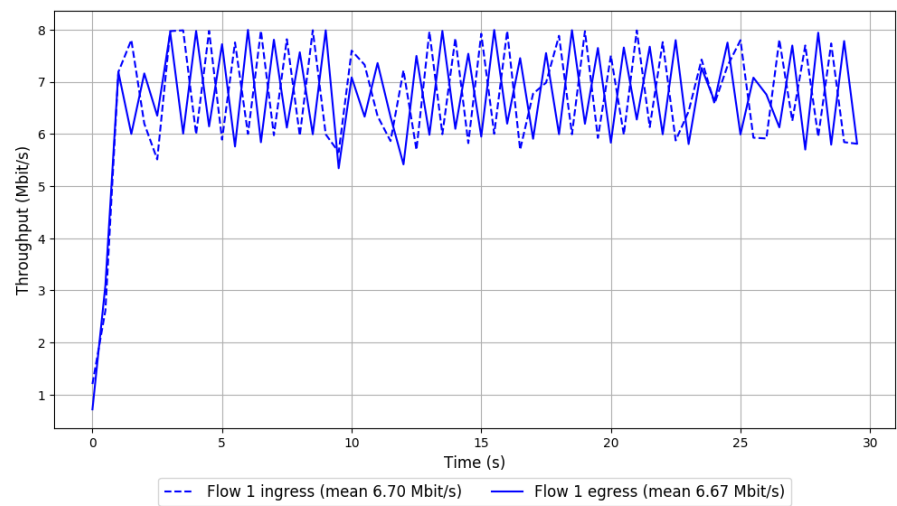
-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 64.124 ms

Loss rate: 0.34%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-21 10:41:21

End at: 2017-11-21 10:41:51

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 63.040 ms

Loss rate: 0.01%

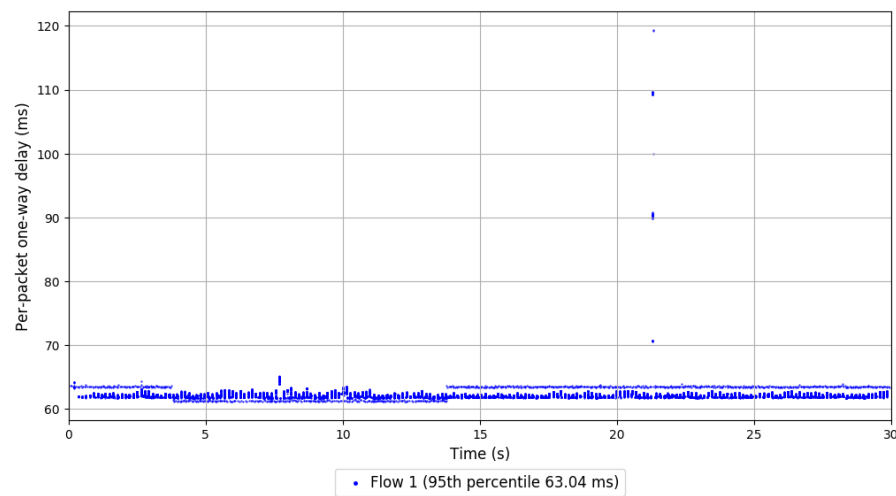
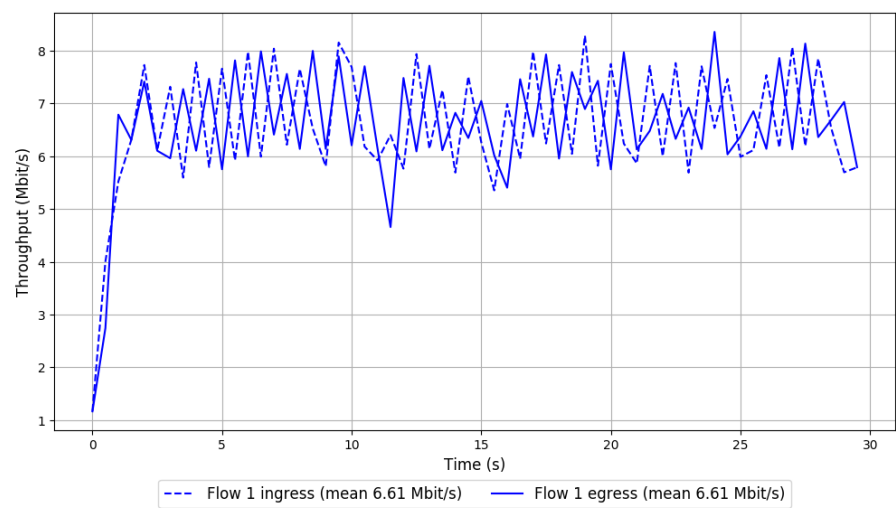
-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 63.040 ms

Loss rate: 0.01%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 10:51:33

End at: 2017-11-21 10:52:03

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 64.149 ms

Loss rate: 0.07%

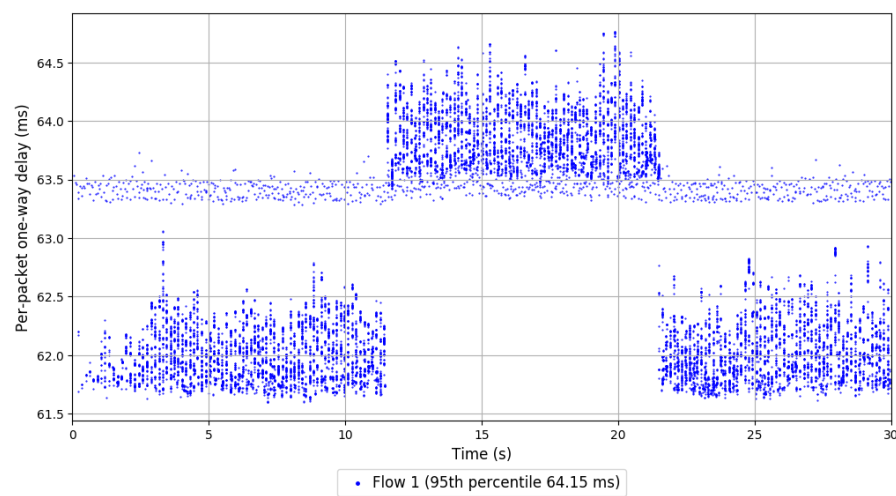
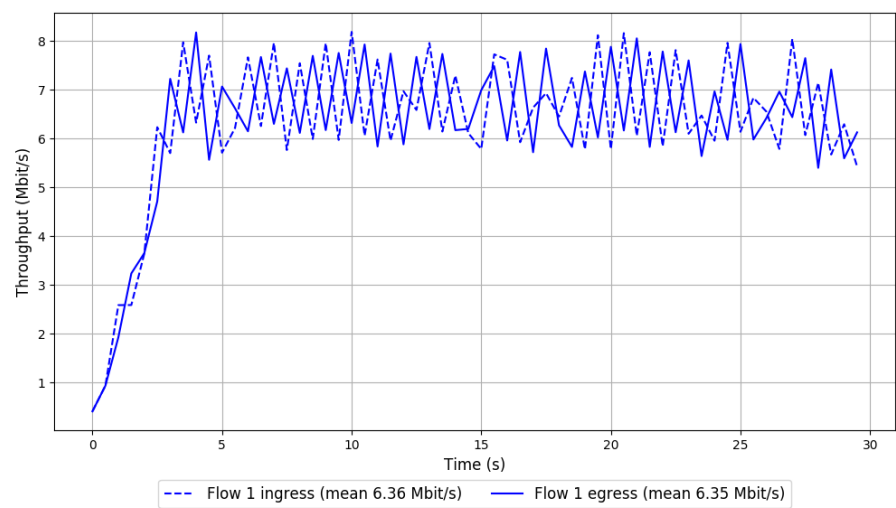
-- Flow 1:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 64.149 ms

Loss rate: 0.07%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 11:01:35

End at: 2017-11-21 11:02:05

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 63.686 ms

Loss rate: 0.31%

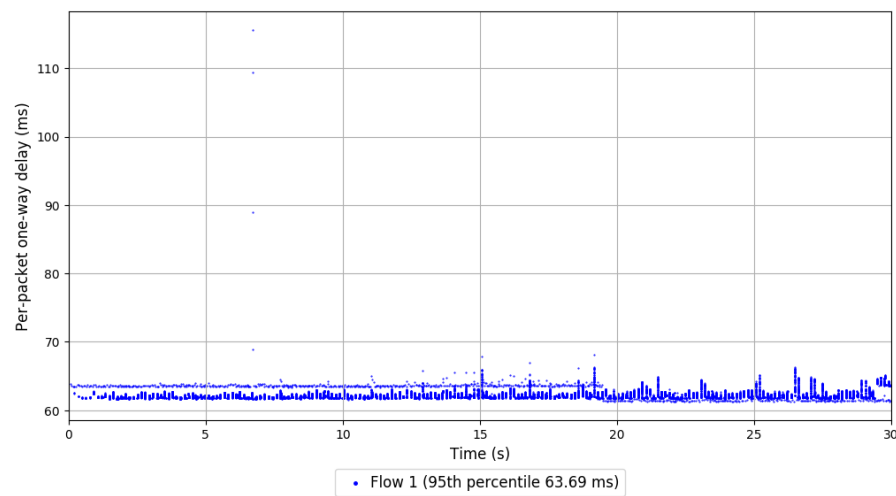
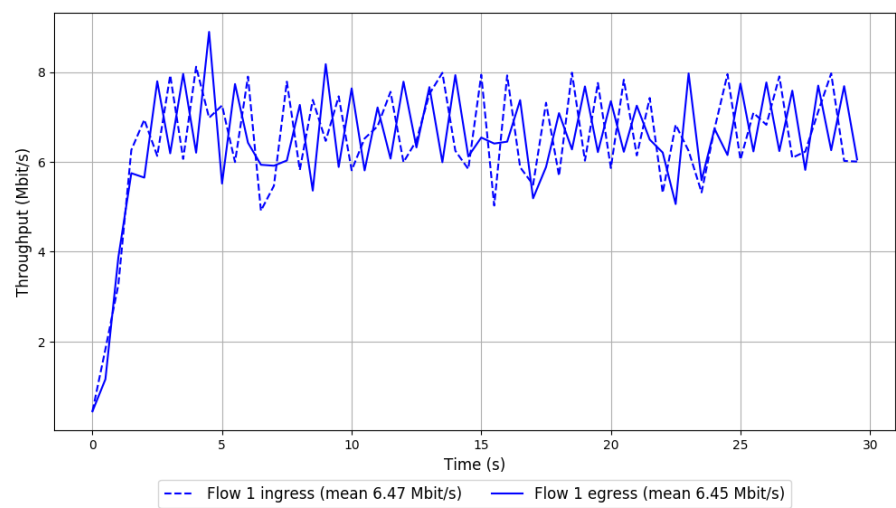
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 63.686 ms

Loss rate: 0.31%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 11:12:03

End at: 2017-11-21 11:12:33

Below is generated by plot.py at 2017-11-21 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.341 ms

Loss rate: 0.10%

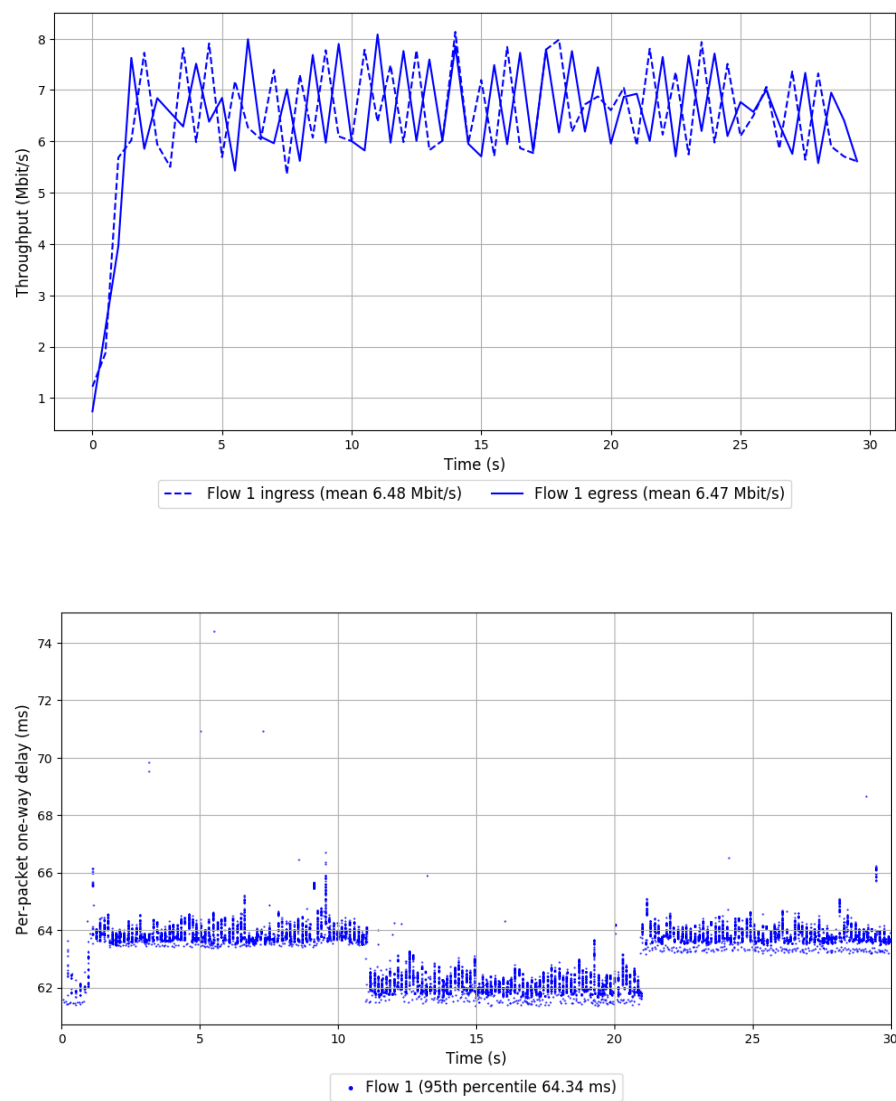
-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.341 ms

Loss rate: 0.10%

Run 10: Report of Sprout — Data Link

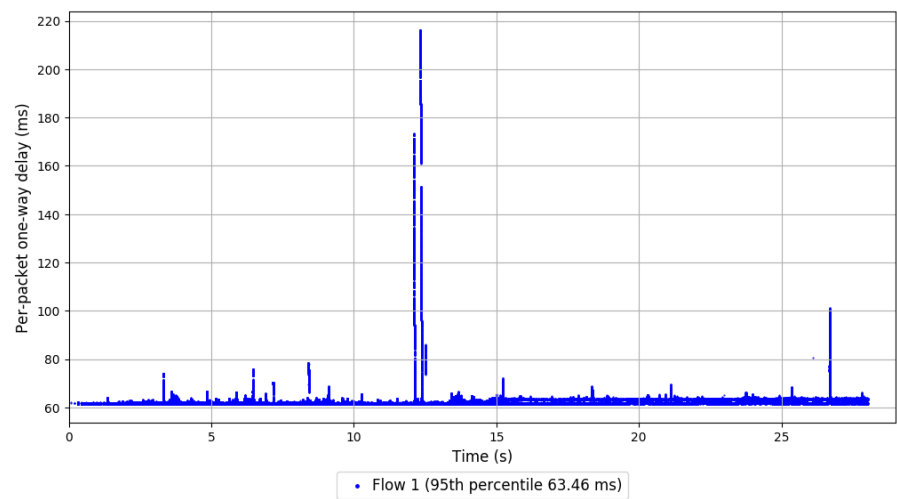
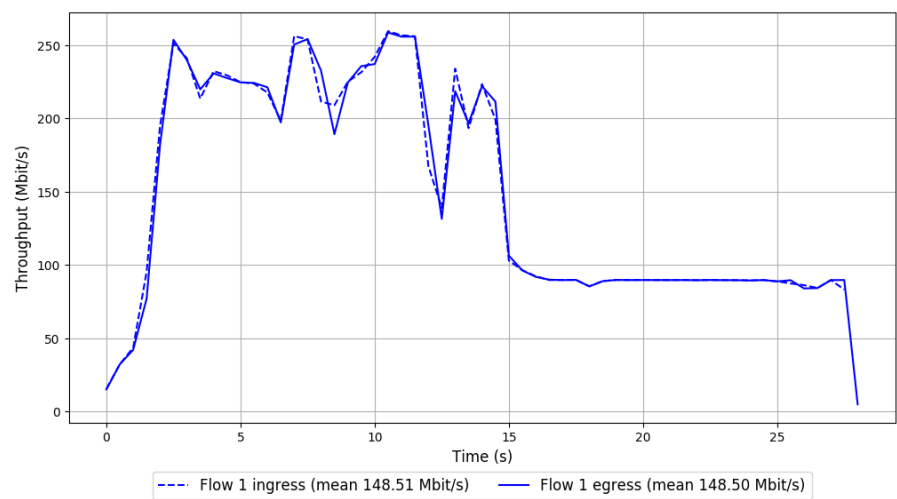


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 09:42:28
End at: 2017-11-21 09:42:58

# Below is generated by plot.py at 2017-11-21 12:23:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 148.50 Mbit/s
95th percentile per-packet one-way delay: 63.459 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 148.50 Mbit/s
95th percentile per-packet one-way delay: 63.459 ms
Loss rate: 0.00%
```


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

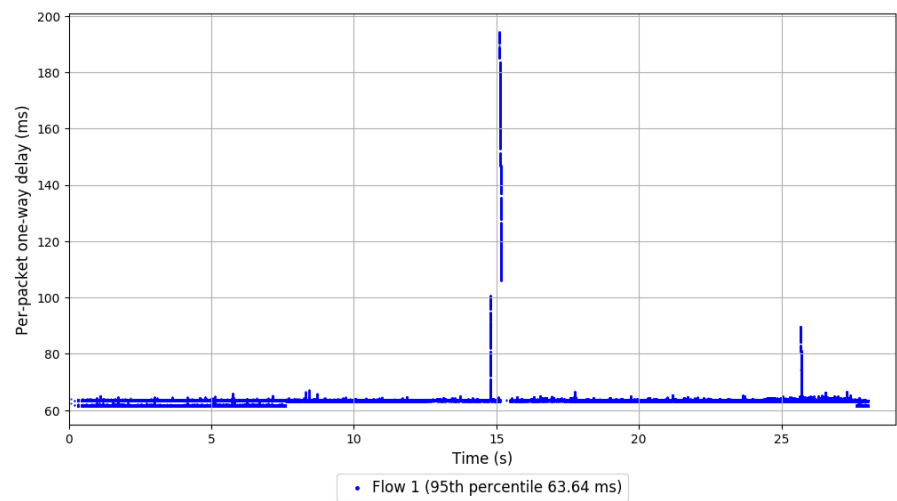
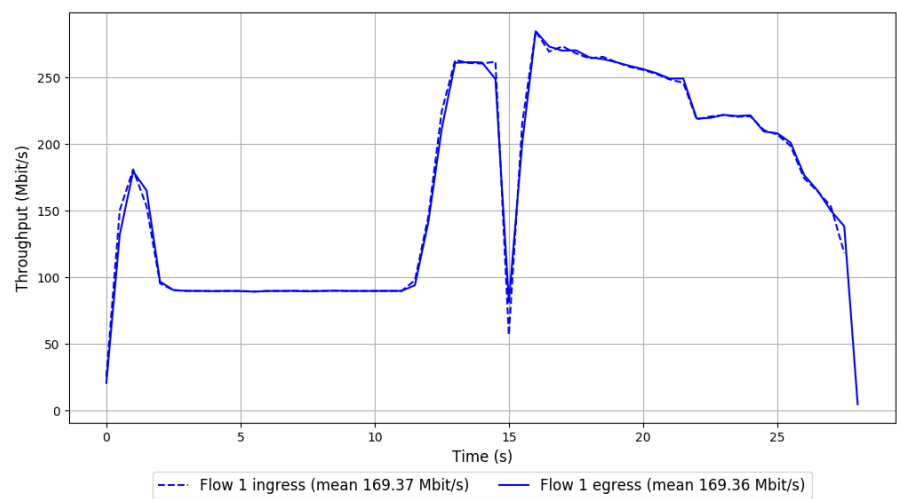


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 09:52:55
End at: 2017-11-21 09:53:25

# Below is generated by plot.py at 2017-11-21 12:23:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.36 Mbit/s
95th percentile per-packet one-way delay: 63.638 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.36 Mbit/s
95th percentile per-packet one-way delay: 63.638 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 10:03:02

End at: 2017-11-21 10:03:32

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.07 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.00%

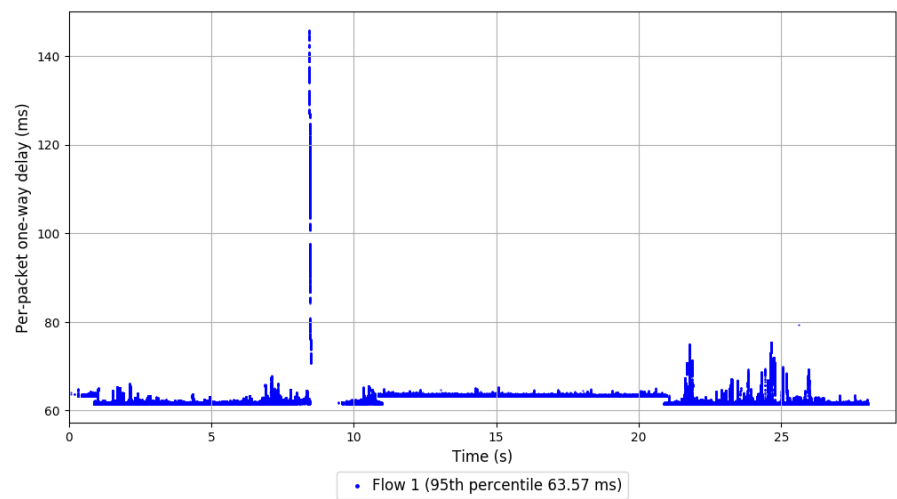
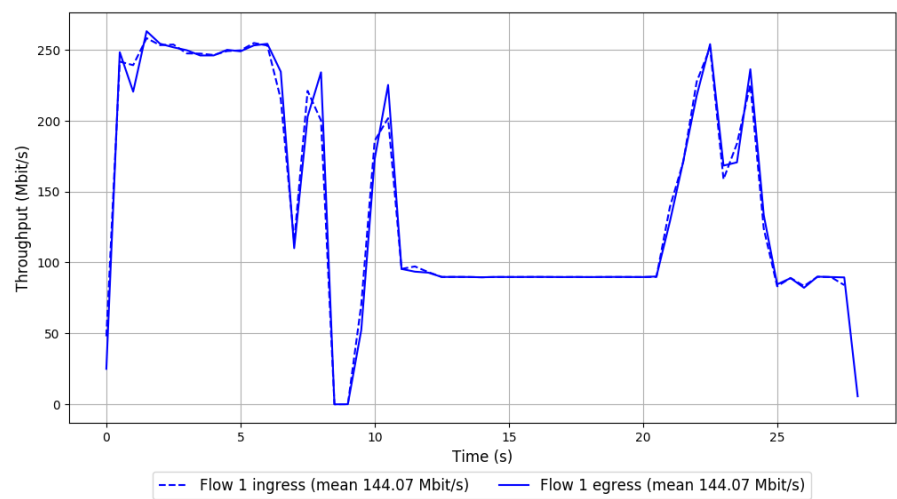
-- Flow 1:

Average throughput: 144.07 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 10:13:27

End at: 2017-11-21 10:13:57

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.59 Mbit/s

95th percentile per-packet one-way delay: 63.619 ms

Loss rate: 0.01%

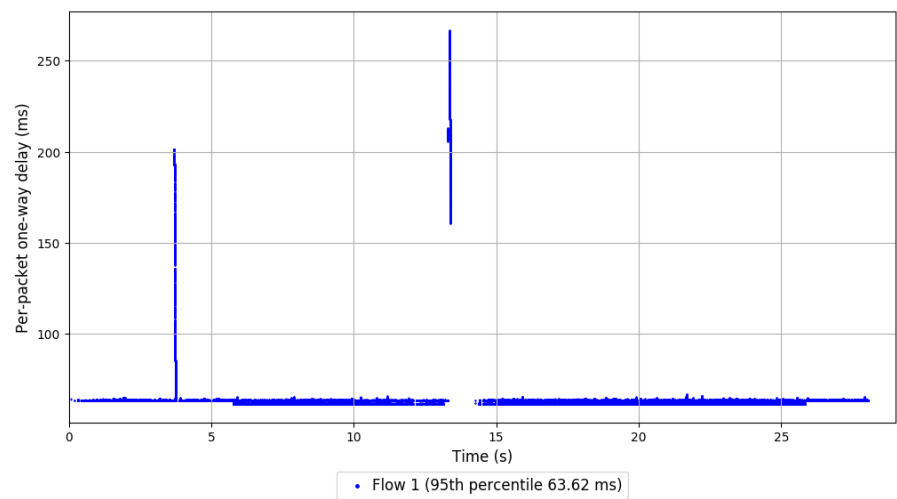
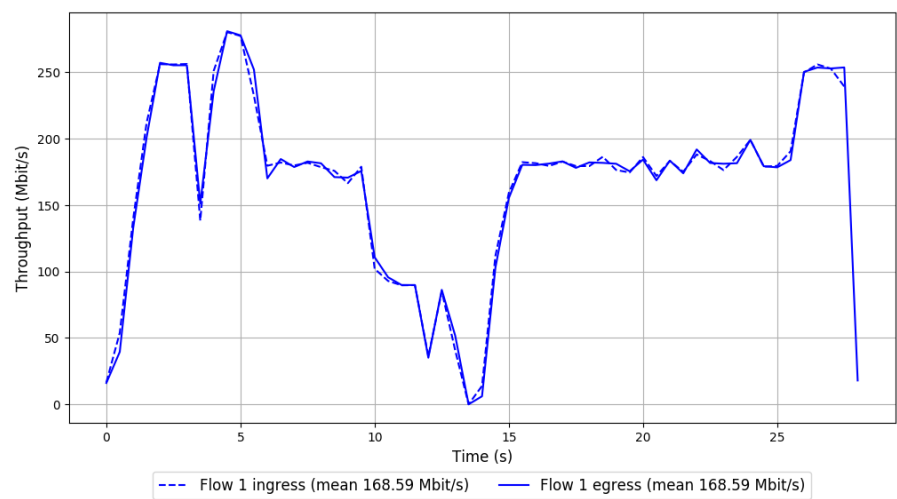
-- Flow 1:

Average throughput: 168.59 Mbit/s

95th percentile per-packet one-way delay: 63.619 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 10:24:06

End at: 2017-11-21 10:24:36

Below is generated by plot.py at 2017-11-21 12:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.64 Mbit/s

95th percentile per-packet one-way delay: 64.572 ms

Loss rate: 0.00%

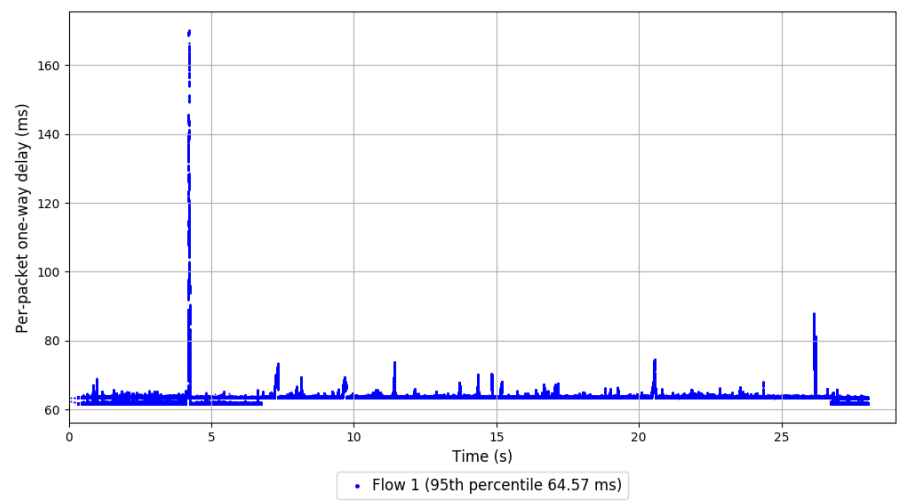
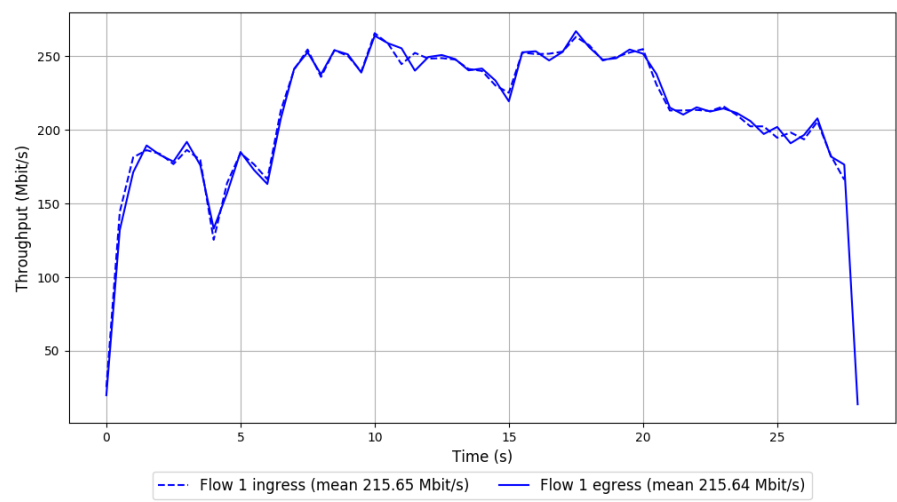
-- Flow 1:

Average throughput: 215.64 Mbit/s

95th percentile per-packet one-way delay: 64.572 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 10:34:35

End at: 2017-11-21 10:35:05

Below is generated by plot.py at 2017-11-21 12:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.64 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.01%

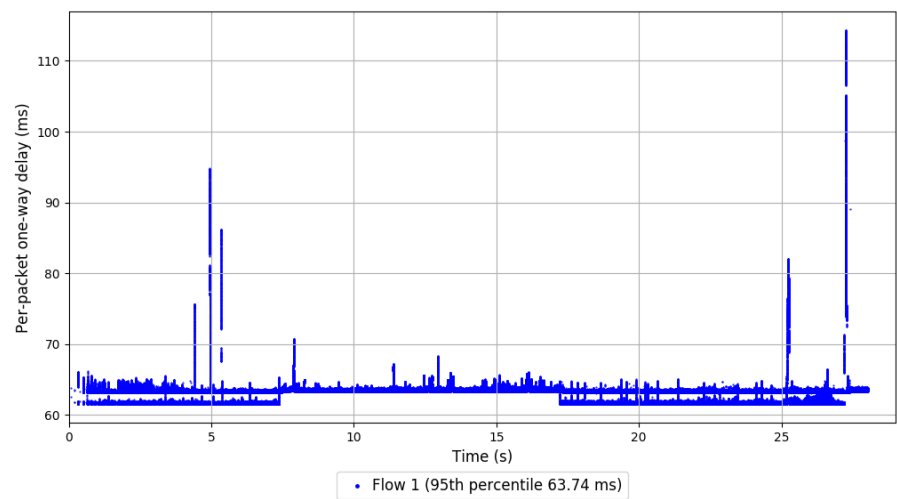
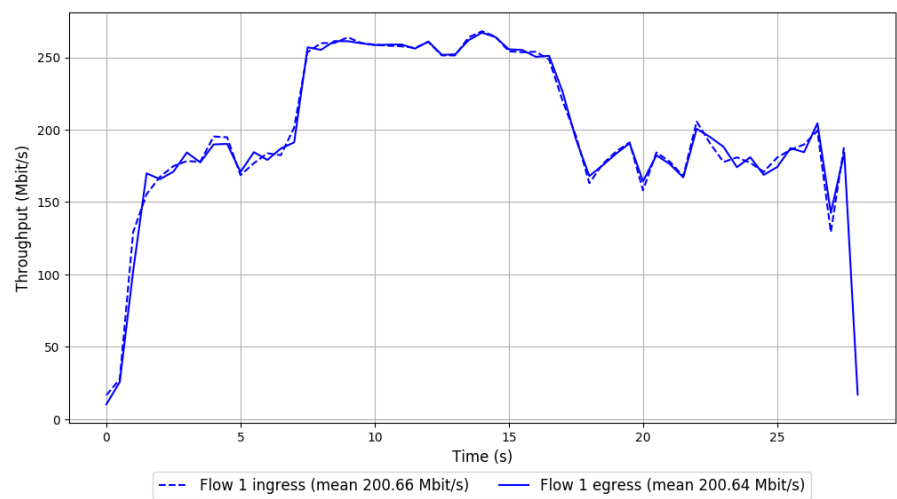
-- Flow 1:

Average throughput: 200.64 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.01%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 10:45:03

End at: 2017-11-21 10:45:33

Below is generated by plot.py at 2017-11-21 12:25:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.14 Mbit/s

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

Loss rate: 0.00%

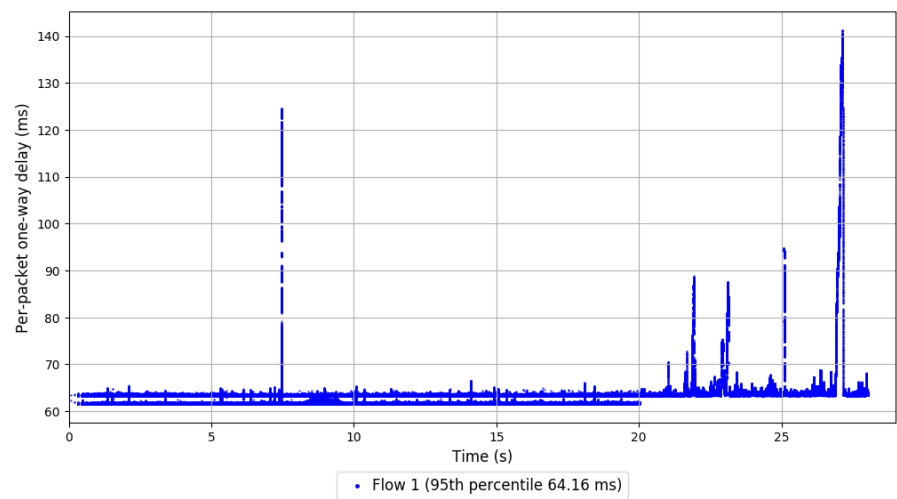
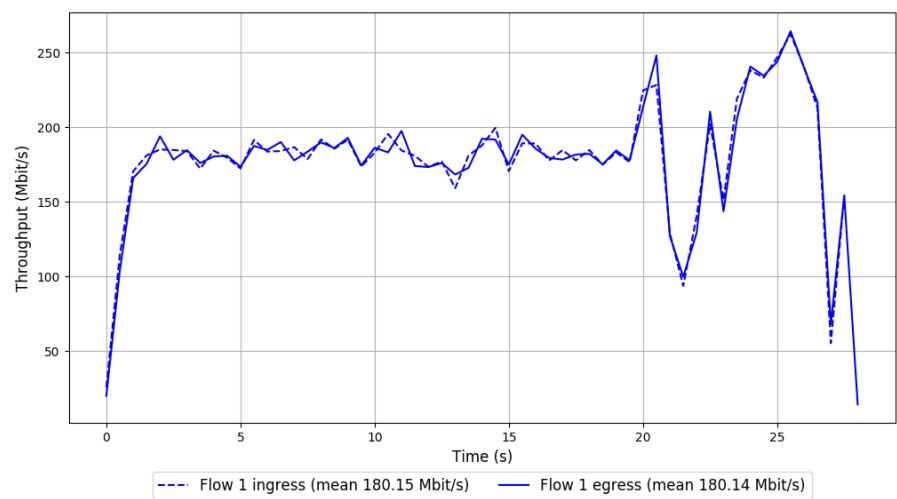
-- Flow 1:

Average throughput: 180.14 Mbit/s

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

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 10:55:14

End at: 2017-11-21 10:55:44

Below is generated by plot.py at 2017-11-21 12:27:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.17 Mbit/s

95th percentile per-packet one-way delay: 63.772 ms

Loss rate: 0.00%

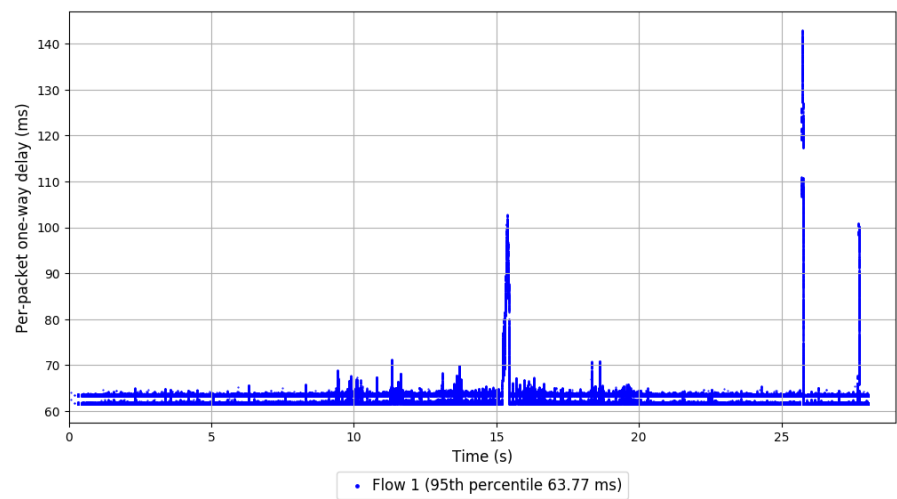
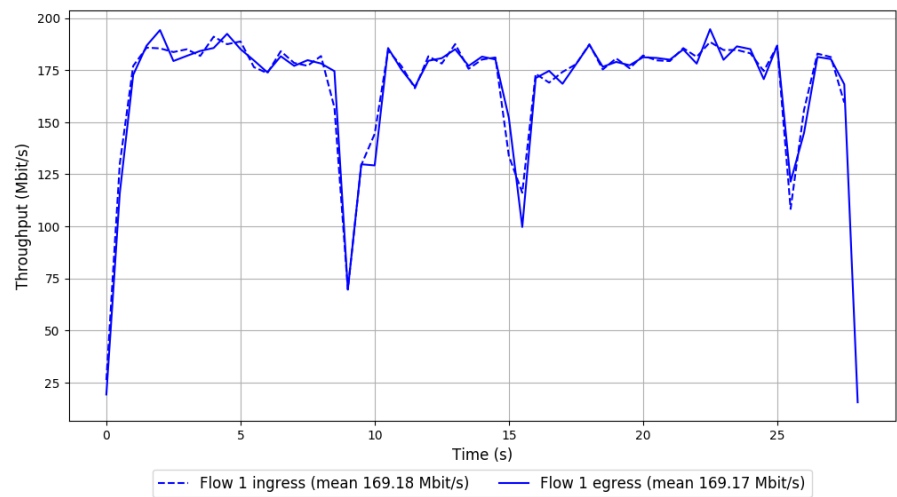
-- Flow 1:

Average throughput: 169.17 Mbit/s

95th percentile per-packet one-way delay: 63.772 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 11:05:20

End at: 2017-11-21 11:05:50

Below is generated by plot.py at 2017-11-21 12:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.08 Mbit/s

95th percentile per-packet one-way delay: 63.847 ms

Loss rate: 0.00%

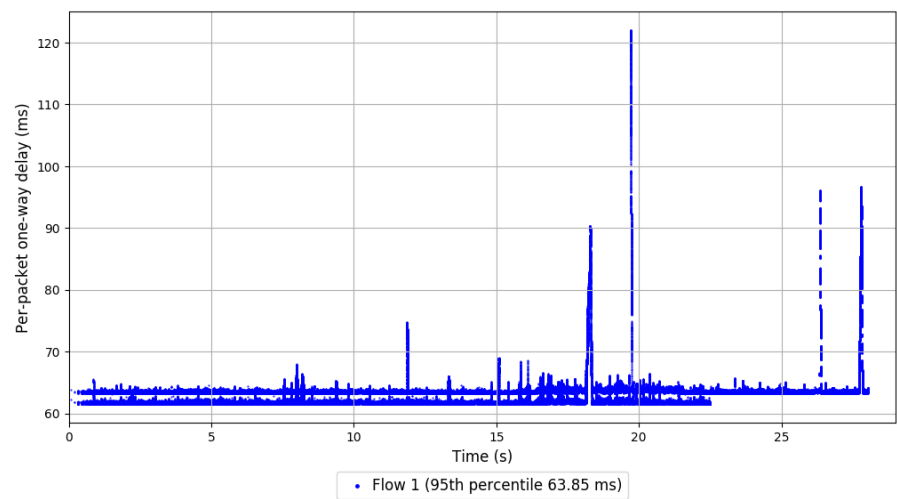
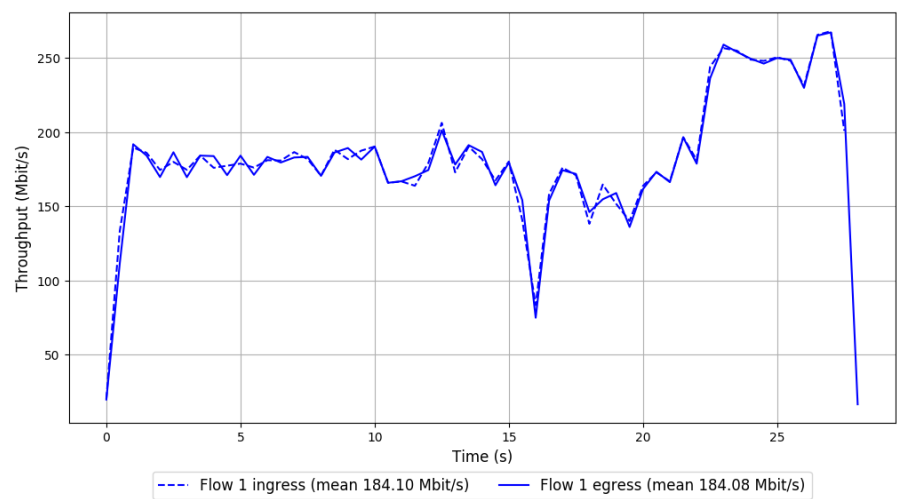
-- Flow 1:

Average throughput: 184.08 Mbit/s

95th percentile per-packet one-way delay: 63.847 ms

Loss rate: 0.00%

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

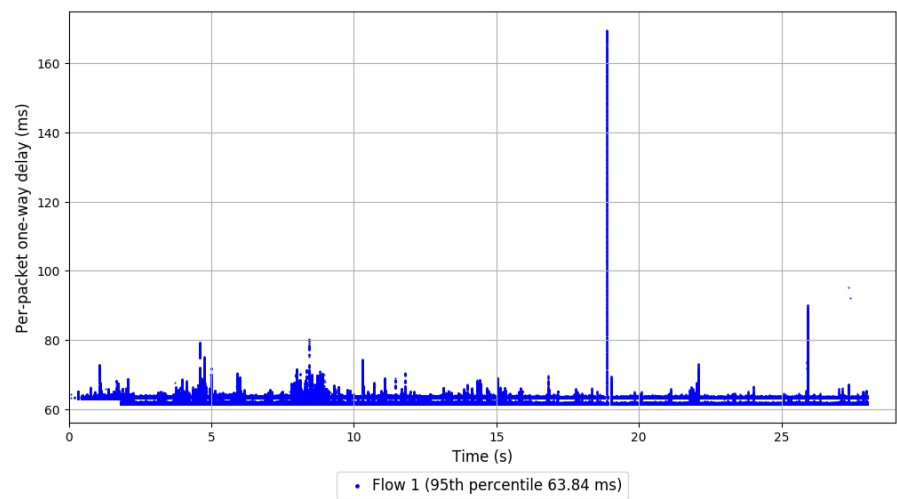
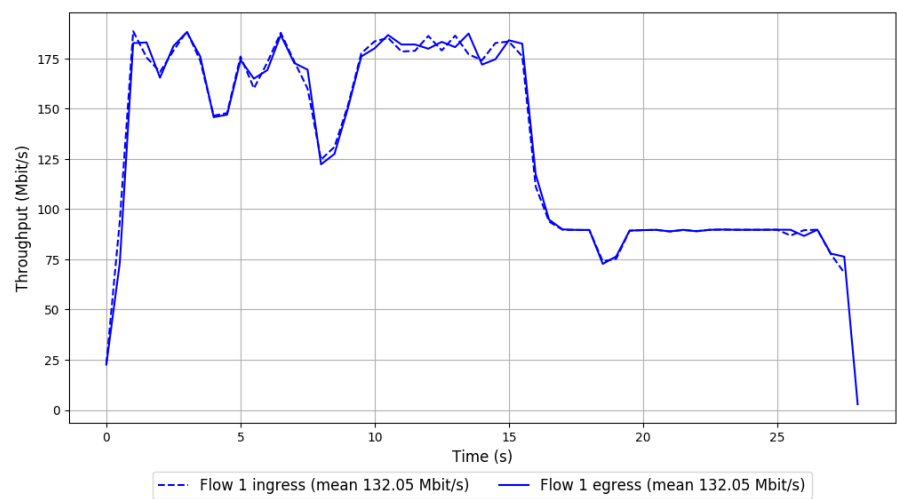


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 11:15:51
End at: 2017-11-21 11:16:21

# Below is generated by plot.py at 2017-11-21 12:29:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.05 Mbit/s
95th percentile per-packet one-way delay: 63.839 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.05 Mbit/s
95th percentile per-packet one-way delay: 63.839 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 09:43:20

End at: 2017-11-21 09:43:50

Below is generated by plot.py at 2017-11-21 12:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.36 Mbit/s

95th percentile per-packet one-way delay: 64.796 ms

Loss rate: 0.01%

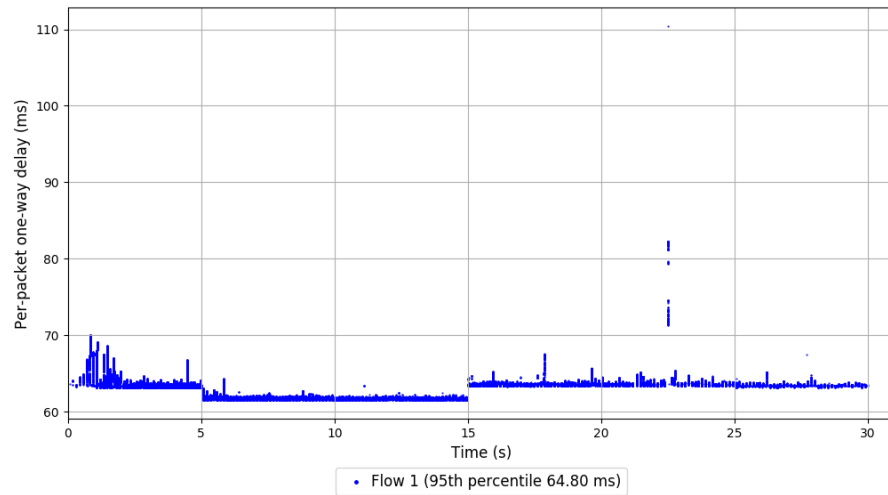
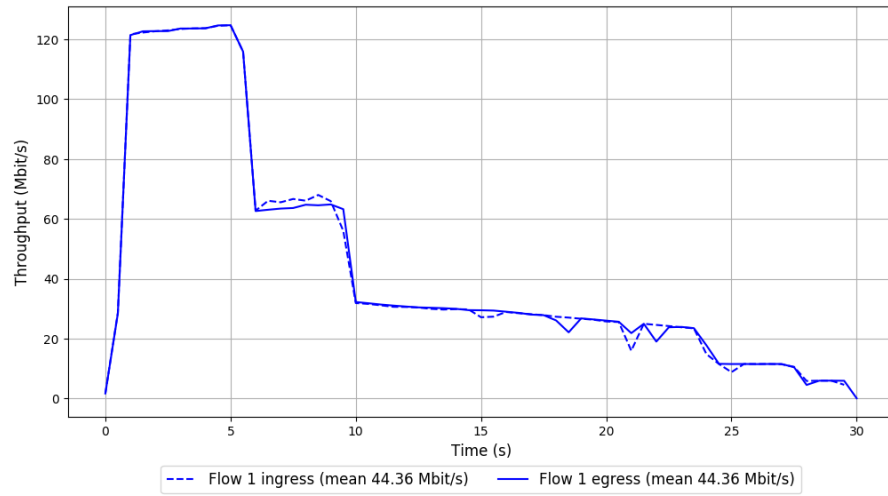
-- Flow 1:

Average throughput: 44.36 Mbit/s

95th percentile per-packet one-way delay: 64.796 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link

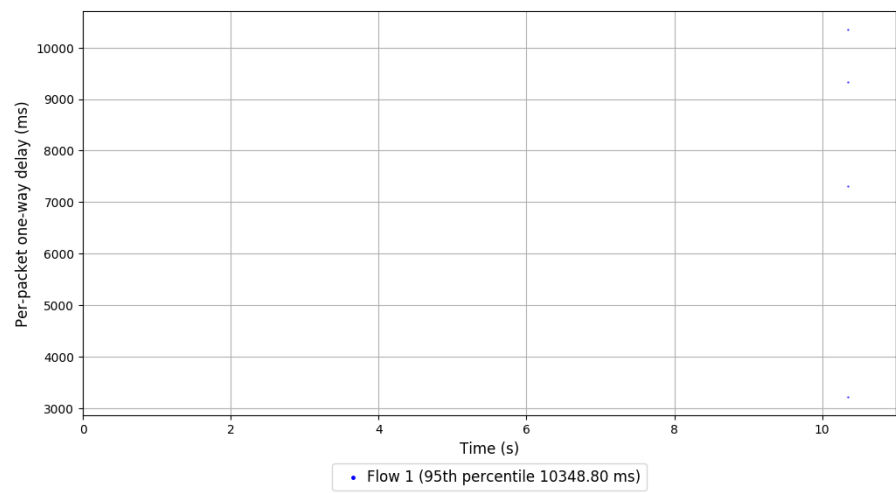
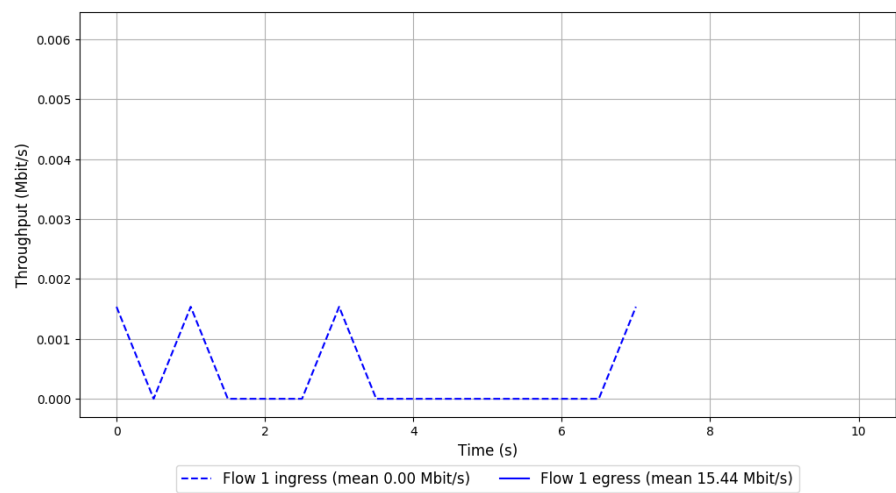


Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 09:53:48

End at: 2017-11-21 09:54:18

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 10:03:53

End at: 2017-11-21 10:04:23

Below is generated by plot.py at 2017-11-21 12:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.21 Mbit/s

95th percentile per-packet one-way delay: 64.151 ms

Loss rate: 0.03%

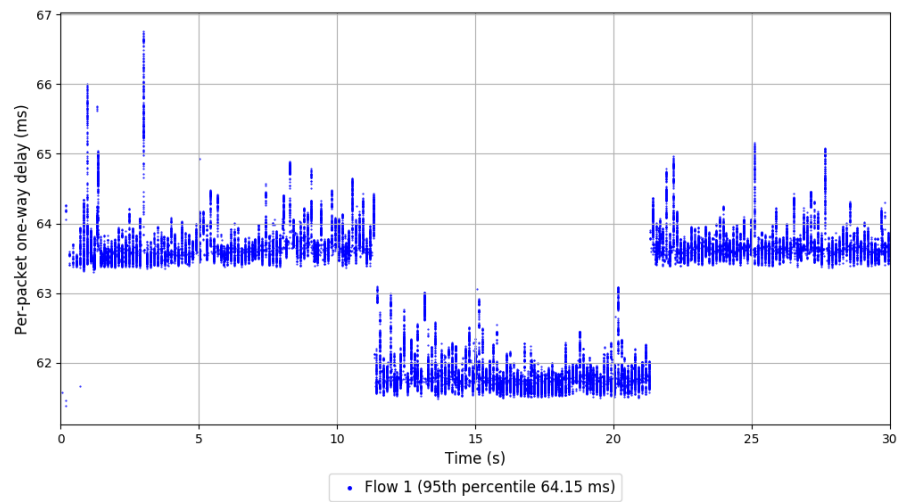
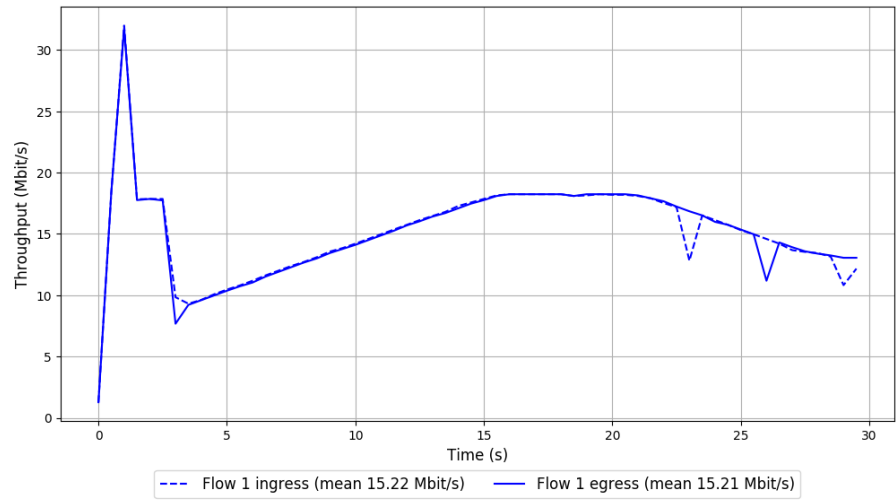
-- Flow 1:

Average throughput: 15.21 Mbit/s

95th percentile per-packet one-way delay: 64.151 ms

Loss rate: 0.03%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 10:14:19

End at: 2017-11-21 10:14:49

Below is generated by plot.py at 2017-11-21 12:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.71 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.00%

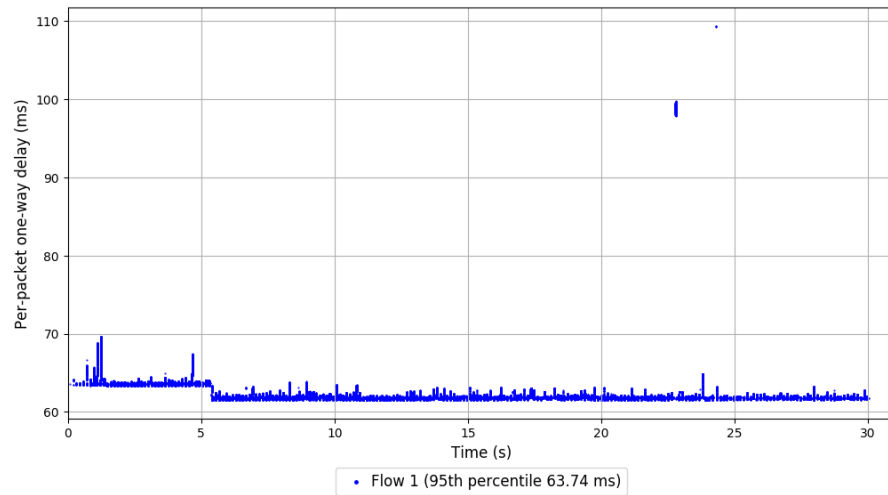
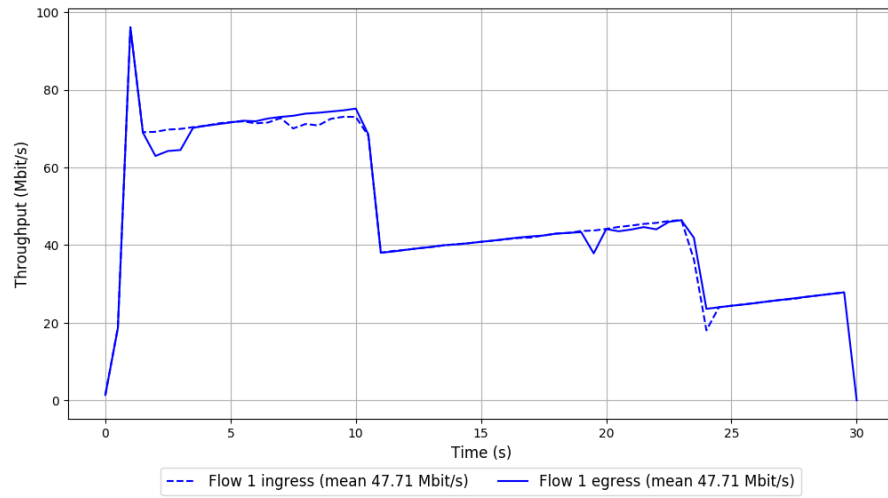
-- Flow 1:

Average throughput: 47.71 Mbit/s

95th percentile per-packet one-way delay: 63.739 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

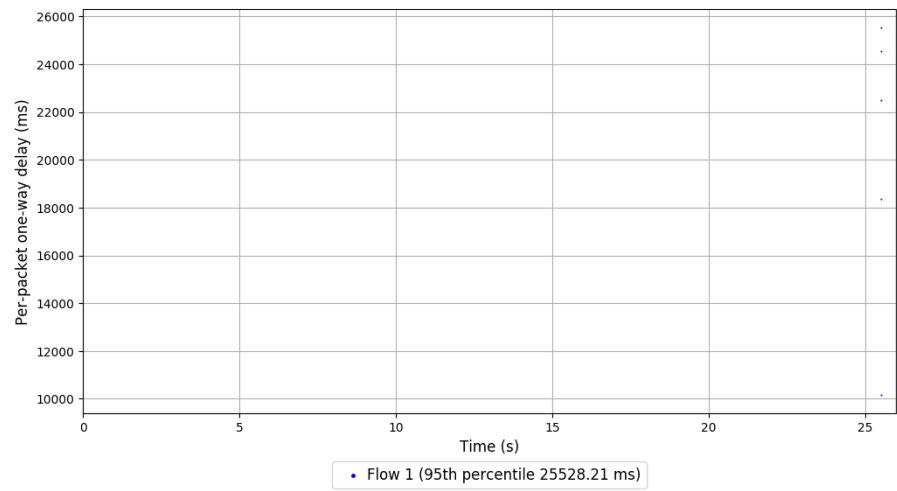
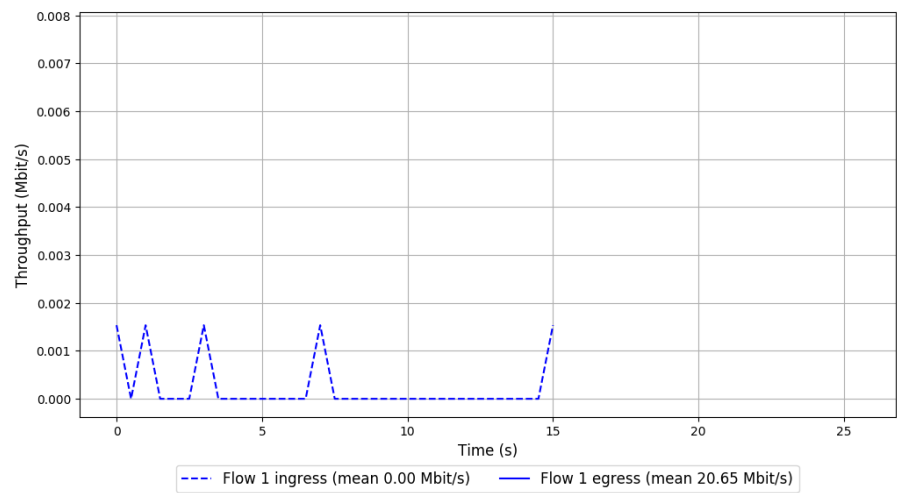


Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 10:25:03

End at: 2017-11-21 10:25:33

Run 5: Report of TCP Vegas — Data Link

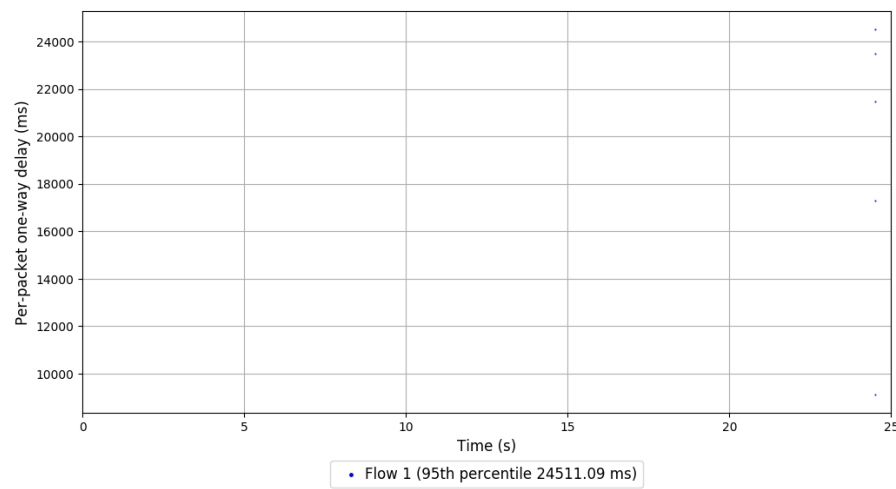
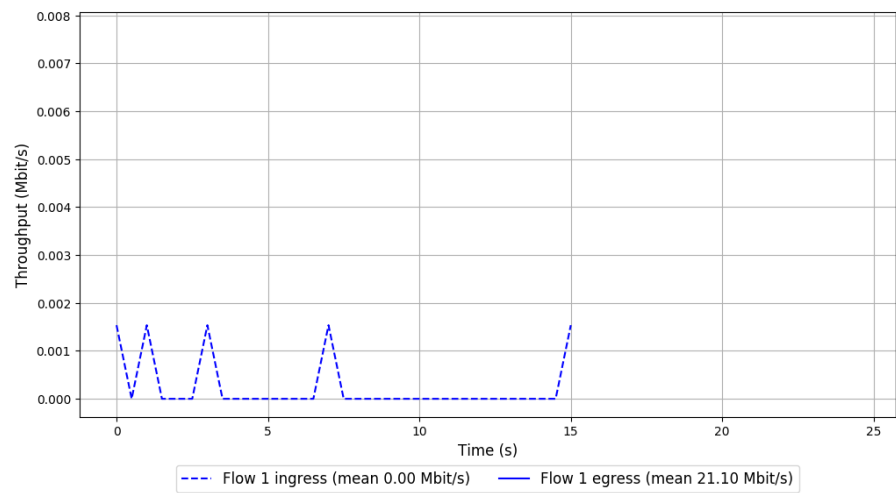


Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 10:35:31

End at: 2017-11-21 10:36:01

Run 6: Report of TCP Vegas — Data Link

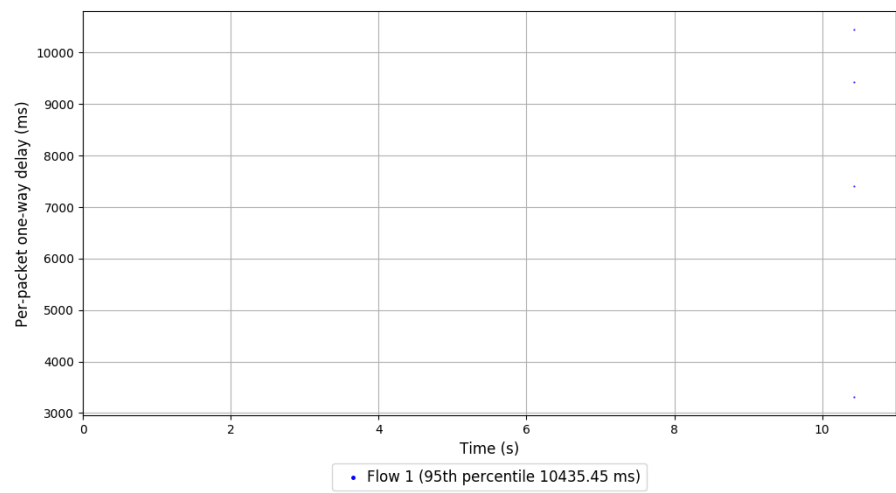
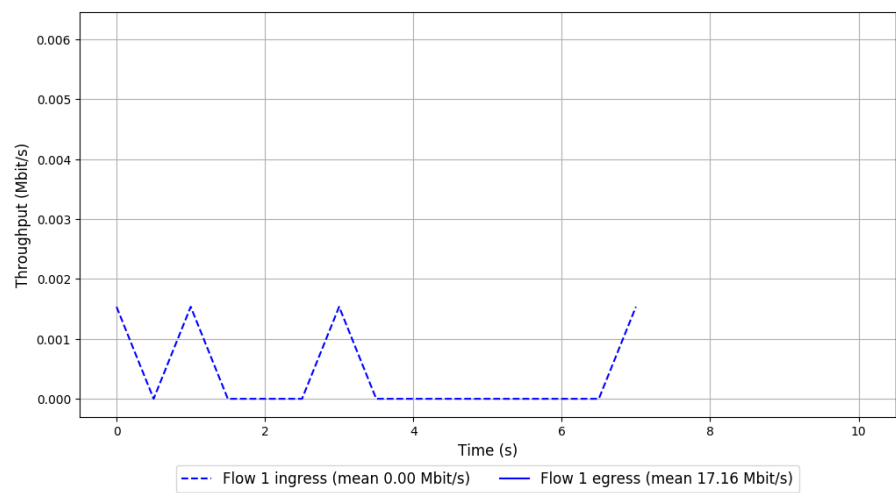


Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 10:45:59

End at: 2017-11-21 10:46:29

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 10:56:06

End at: 2017-11-21 10:56:36

Run 8: Report of TCP Vegas — Data Link

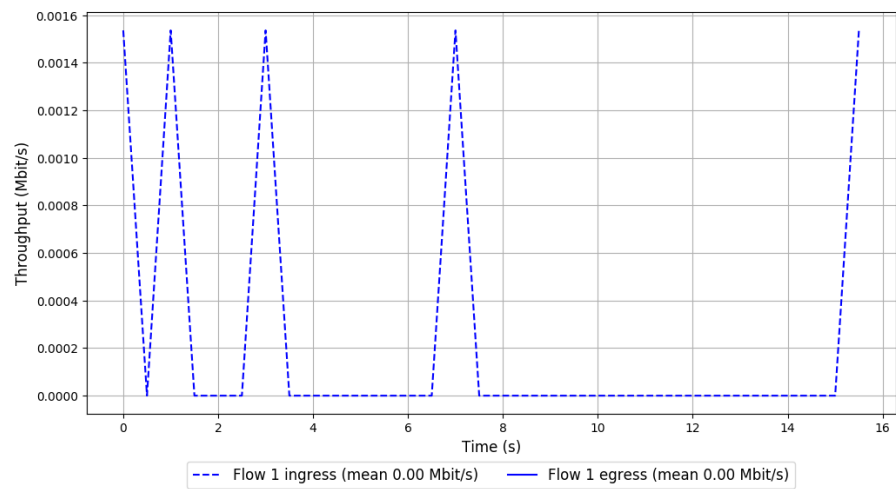


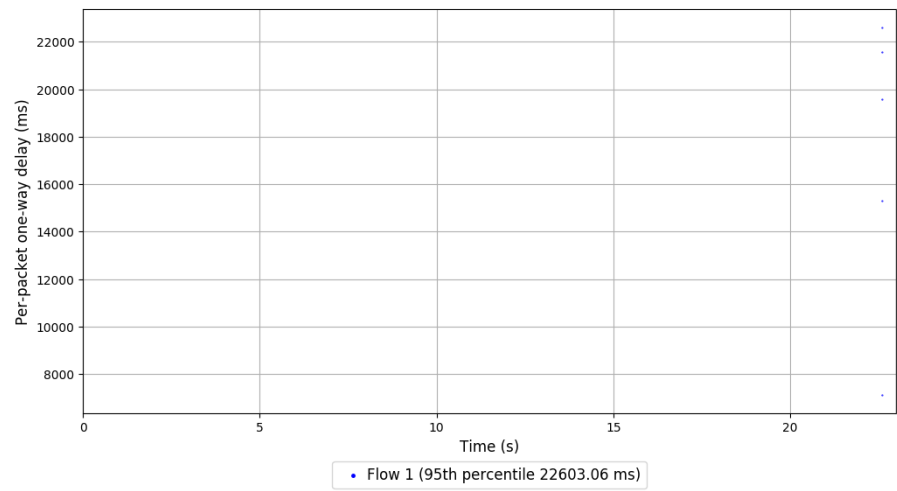
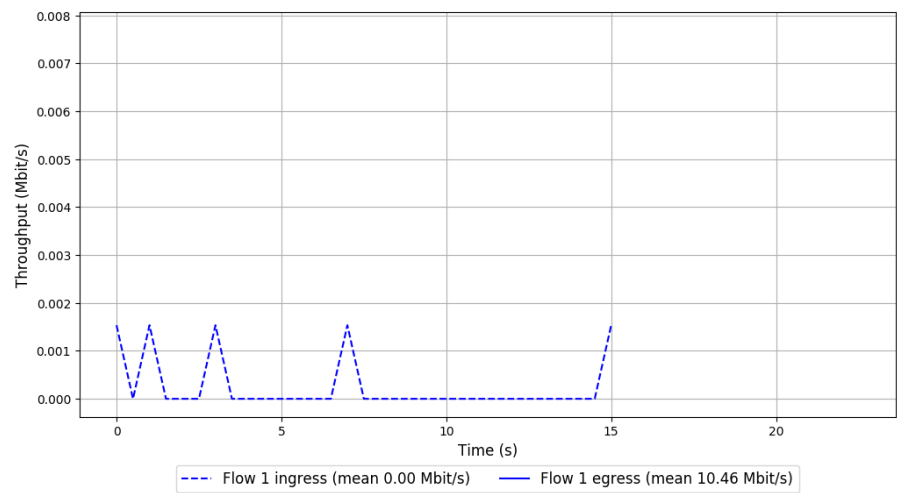
Figure is missing

Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 11:06:14

End at: 2017-11-21 11:06:44

Run 9: Report of TCP Vegas — Data Link

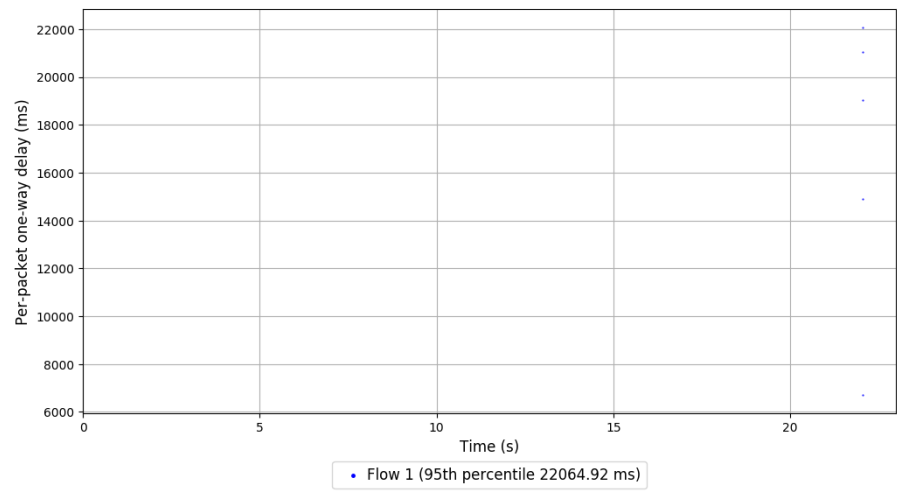
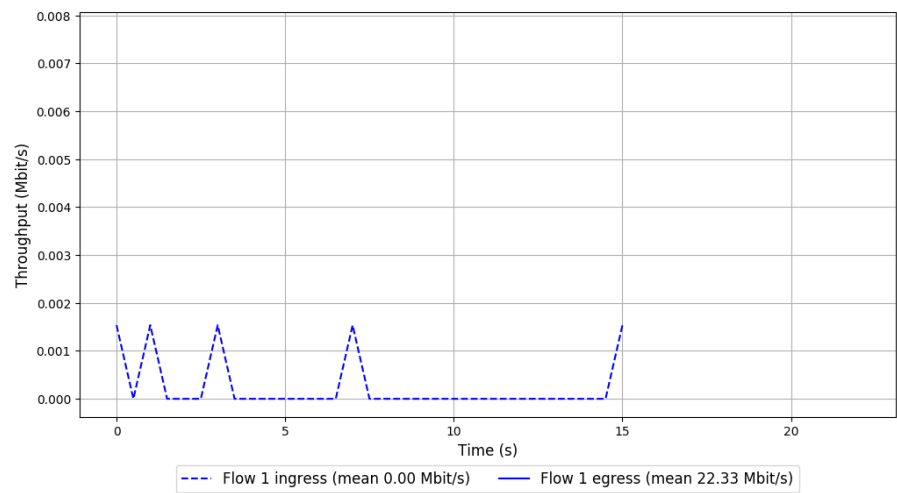


Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 11:16:43

End at: 2017-11-21 11:17:13

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-21 09:39:55

End at: 2017-11-21 09:40:25

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.12 Mbit/s

95th percentile per-packet one-way delay: 183.406 ms

Loss rate: 0.14%

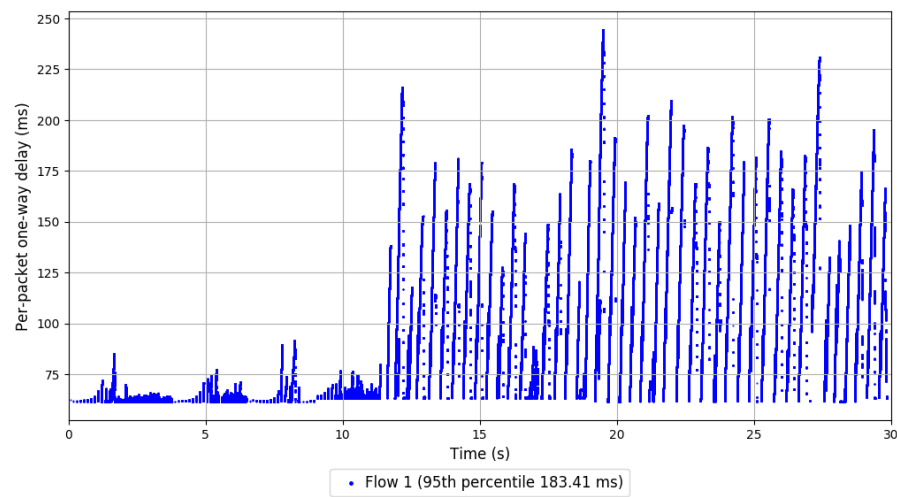
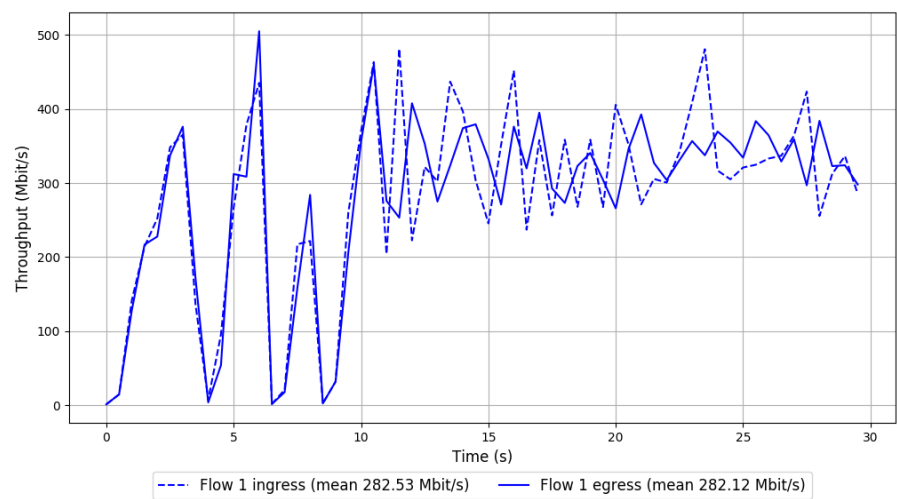
-- Flow 1:

Average throughput: 282.12 Mbit/s

95th percentile per-packet one-way delay: 183.406 ms

Loss rate: 0.14%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-21 09:50:24

End at: 2017-11-21 09:50:54

Below is generated by plot.py at 2017-11-21 12:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.36 Mbit/s

95th percentile per-packet one-way delay: 251.218 ms

Loss rate: 3.24%

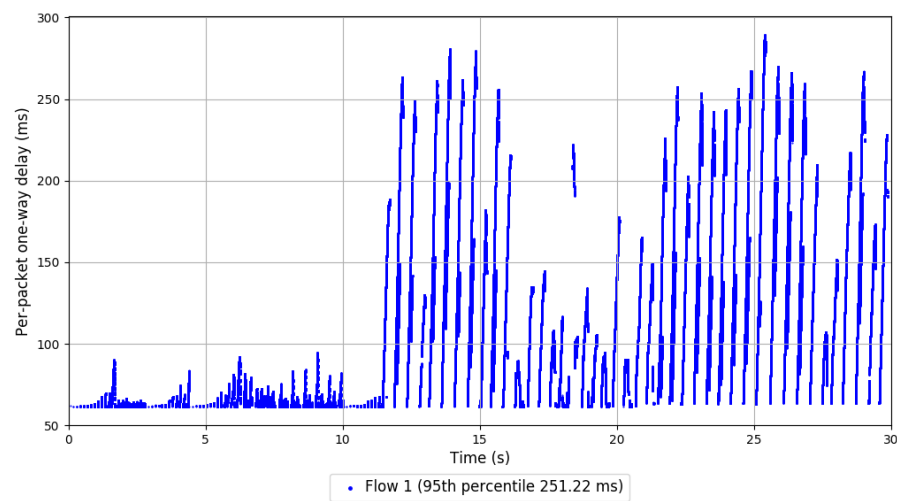
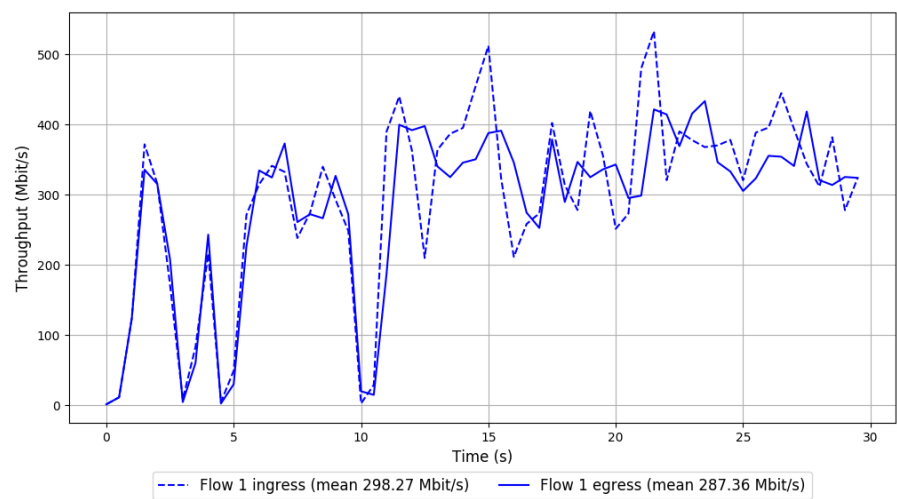
-- Flow 1:

Average throughput: 287.36 Mbit/s

95th percentile per-packet one-way delay: 251.218 ms

Loss rate: 3.24%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 10:00:40

End at: 2017-11-21 10:01:10

Below is generated by plot.py at 2017-11-21 12:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.05 Mbit/s

95th percentile per-packet one-way delay: 195.453 ms

Loss rate: 0.42%

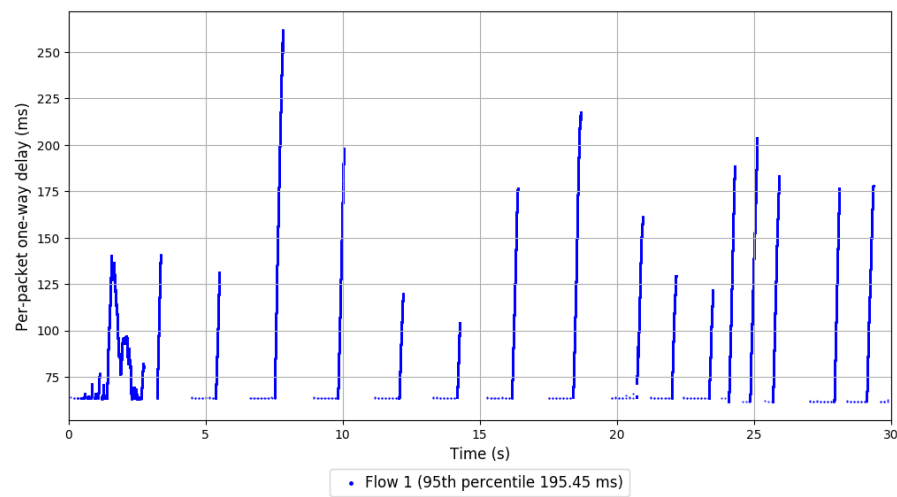
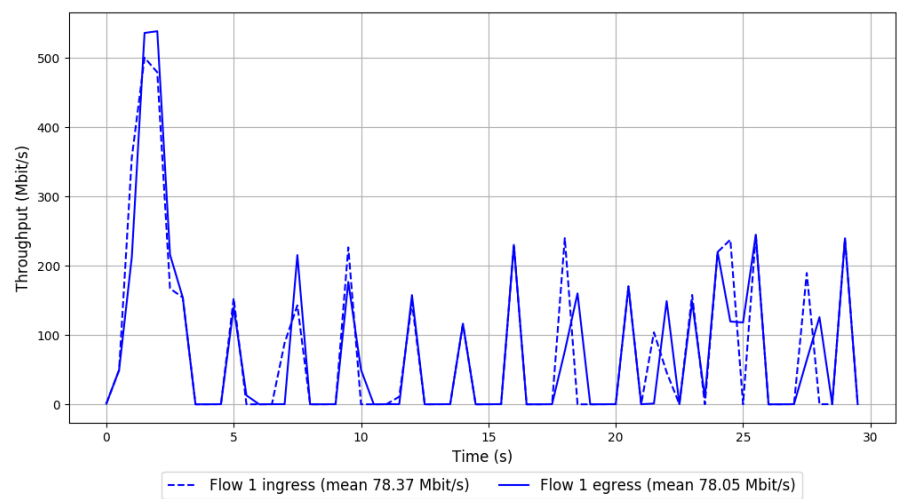
-- Flow 1:

Average throughput: 78.05 Mbit/s

95th percentile per-packet one-way delay: 195.453 ms

Loss rate: 0.42%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 10:10:59

End at: 2017-11-21 10:11:29

Below is generated by plot.py at 2017-11-21 12:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.76 Mbit/s

95th percentile per-packet one-way delay: 205.180 ms

Loss rate: 1.15%

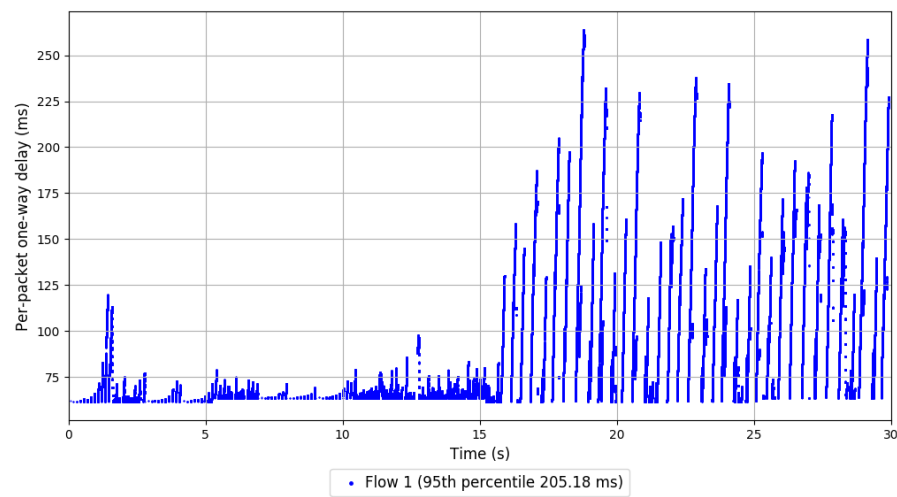
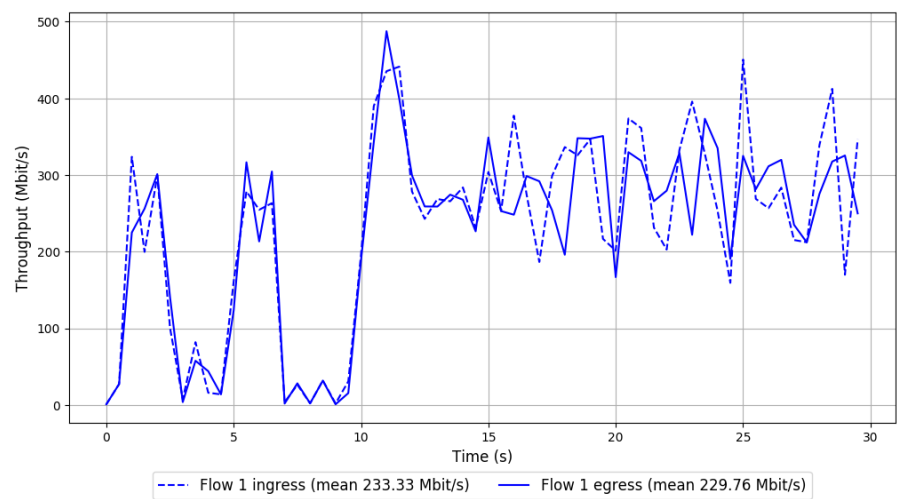
-- Flow 1:

Average throughput: 229.76 Mbit/s

95th percentile per-packet one-way delay: 205.180 ms

Loss rate: 1.15%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 10:21:35

End at: 2017-11-21 10:22:05

Below is generated by plot.py at 2017-11-21 12:30:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.60 Mbit/s

95th percentile per-packet one-way delay: 84.846 ms

Loss rate: 0.02%

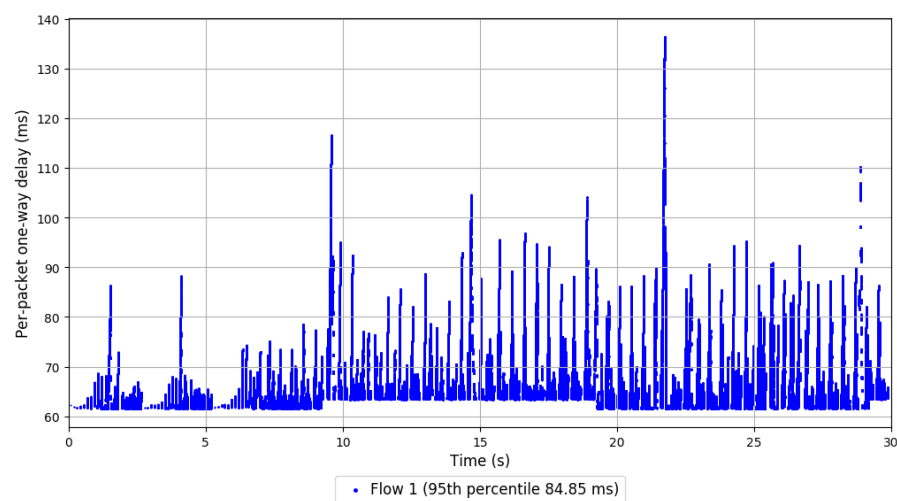
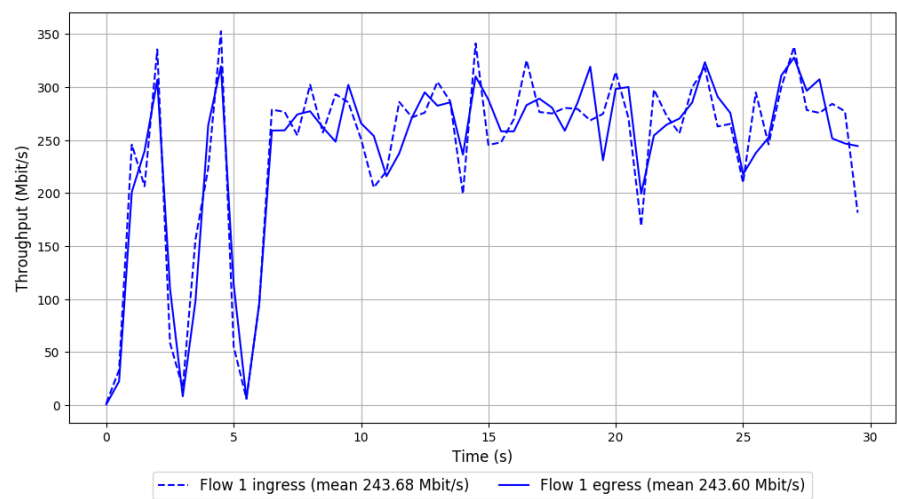
-- Flow 1:

Average throughput: 243.60 Mbit/s

95th percentile per-packet one-way delay: 84.846 ms

Loss rate: 0.02%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 10:32:02

End at: 2017-11-21 10:32:32

Below is generated by plot.py at 2017-11-21 12:31:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.02 Mbit/s

95th percentile per-packet one-way delay: 228.258 ms

Loss rate: 1.77%

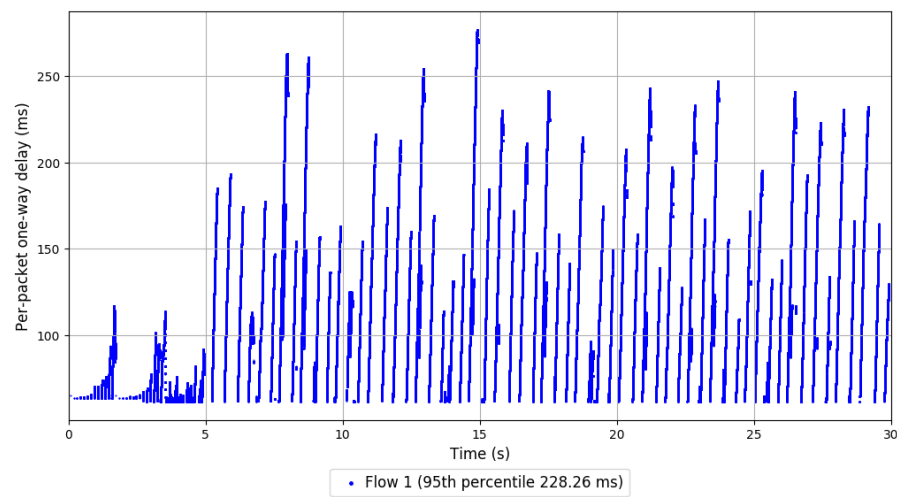
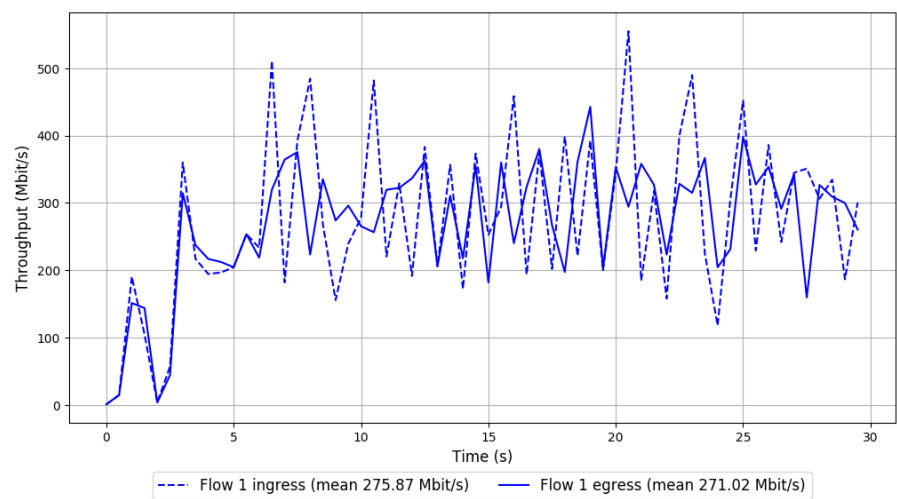
-- Flow 1:

Average throughput: 271.02 Mbit/s

95th percentile per-packet one-way delay: 228.258 ms

Loss rate: 1.77%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-21 10:42:36

End at: 2017-11-21 10:43:06

Below is generated by plot.py at 2017-11-21 12:31:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.64 Mbit/s

95th percentile per-packet one-way delay: 116.357 ms

Loss rate: 0.01%

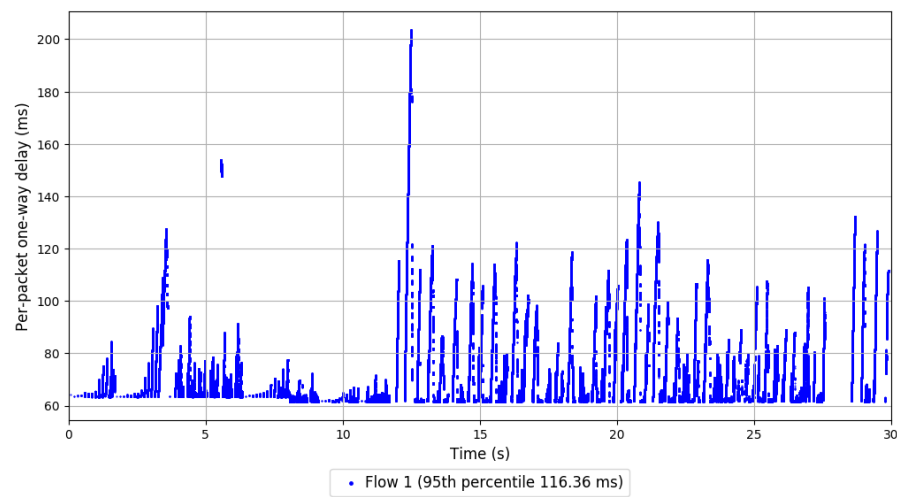
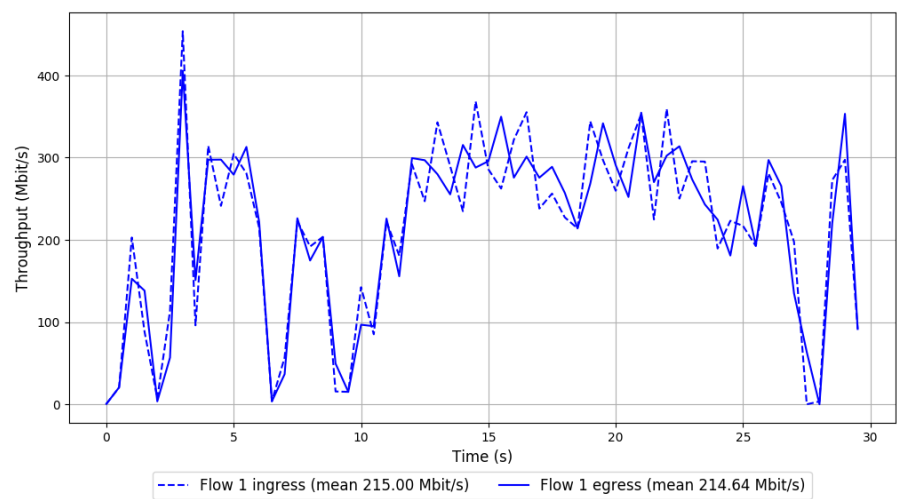
-- Flow 1:

Average throughput: 214.64 Mbit/s

95th percentile per-packet one-way delay: 116.357 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-21 10:52:49

End at: 2017-11-21 10:53:19

Below is generated by plot.py at 2017-11-21 12:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.71 Mbit/s

95th percentile per-packet one-way delay: 99.598 ms

Loss rate: 0.01%

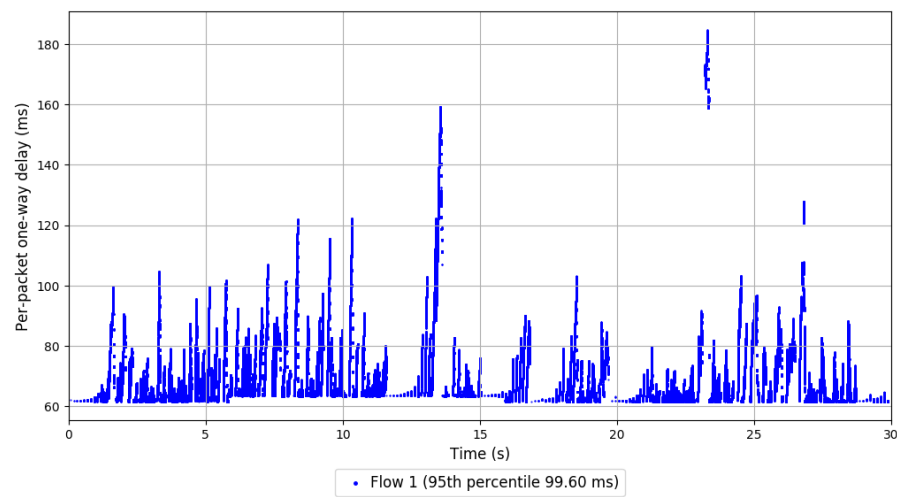
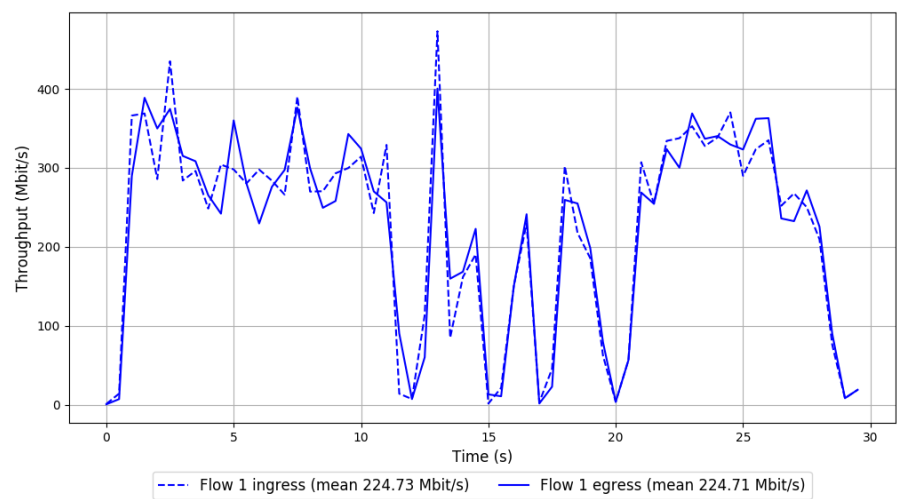
-- Flow 1:

Average throughput: 224.71 Mbit/s

95th percentile per-packet one-way delay: 99.598 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-21 11:02:51

End at: 2017-11-21 11:03:21

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.94 Mbit/s

95th percentile per-packet one-way delay: 116.087 ms

Loss rate: 0.12%

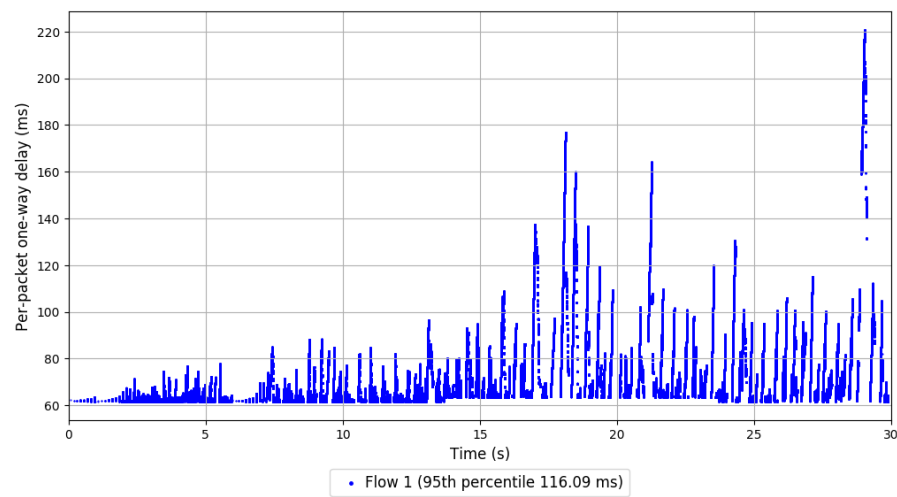
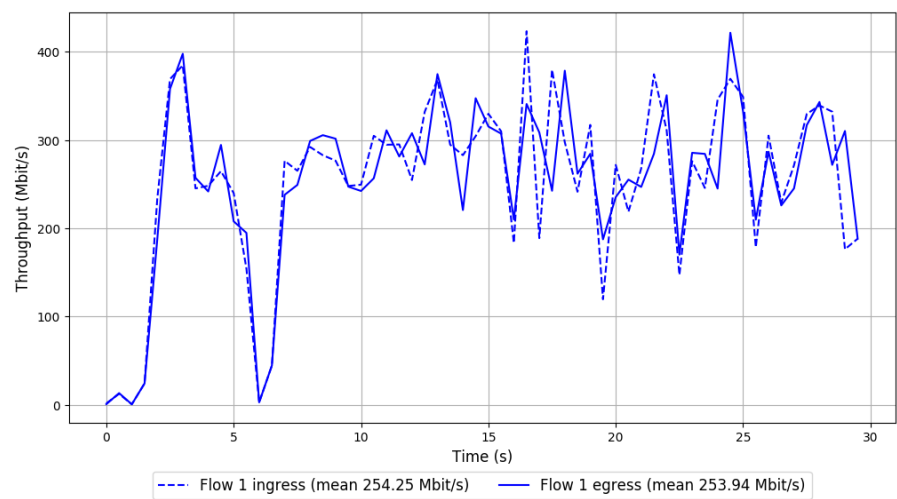
-- Flow 1:

Average throughput: 253.94 Mbit/s

95th percentile per-packet one-way delay: 116.087 ms

Loss rate: 0.12%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 11:13:19

End at: 2017-11-21 11:13:49

Below is generated by plot.py at 2017-11-21 12:34:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.40 Mbit/s

95th percentile per-packet one-way delay: 95.752 ms

Loss rate: 0.01%

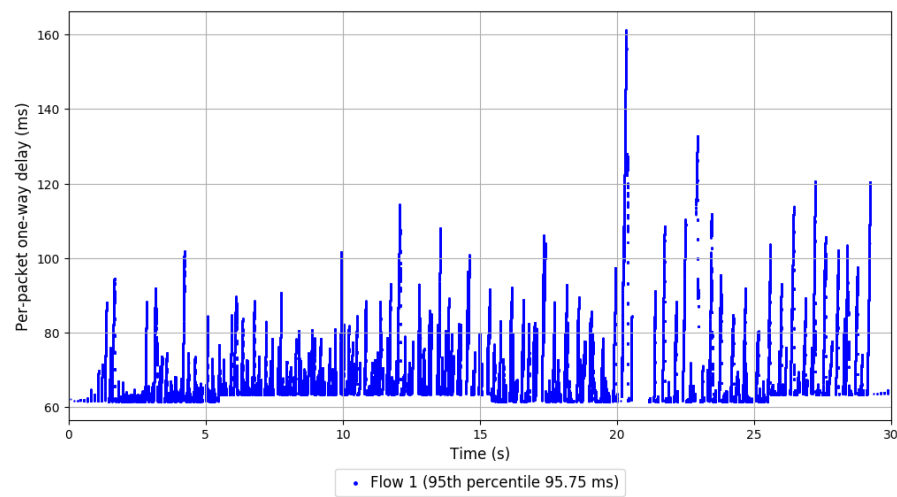
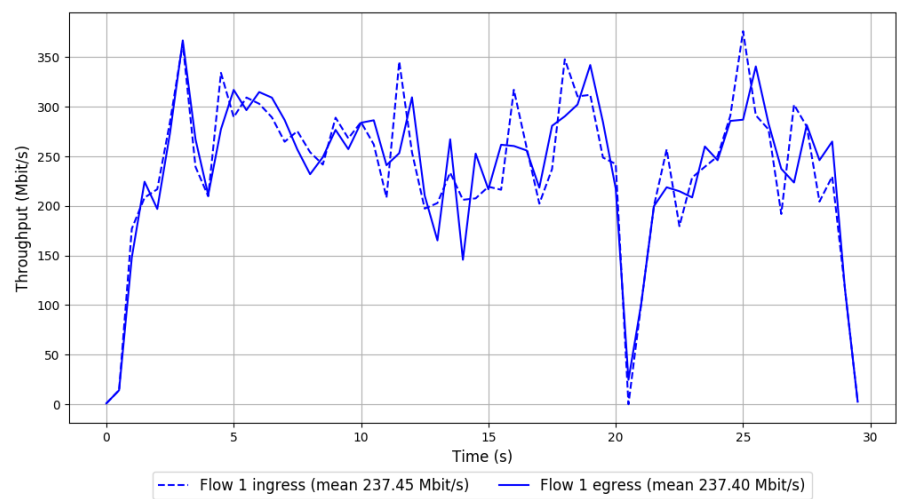
-- Flow 1:

Average throughput: 237.40 Mbit/s

95th percentile per-packet one-way delay: 95.752 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link

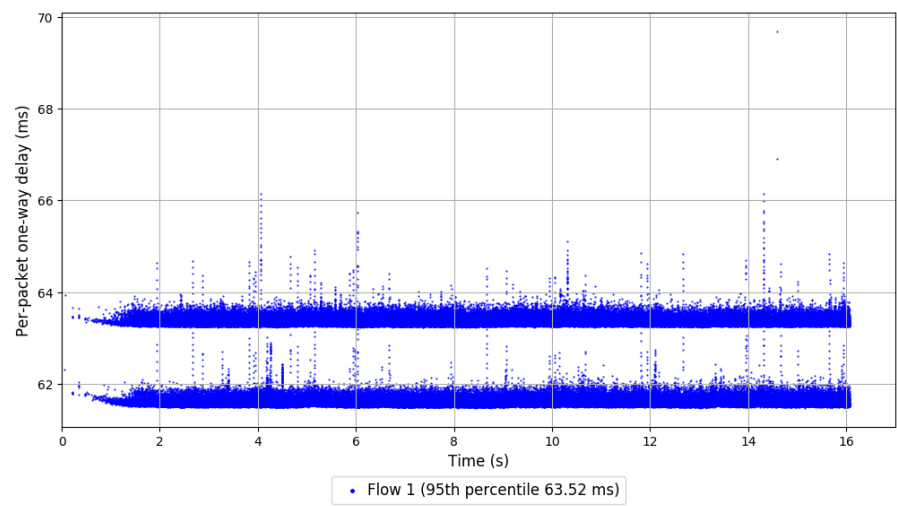
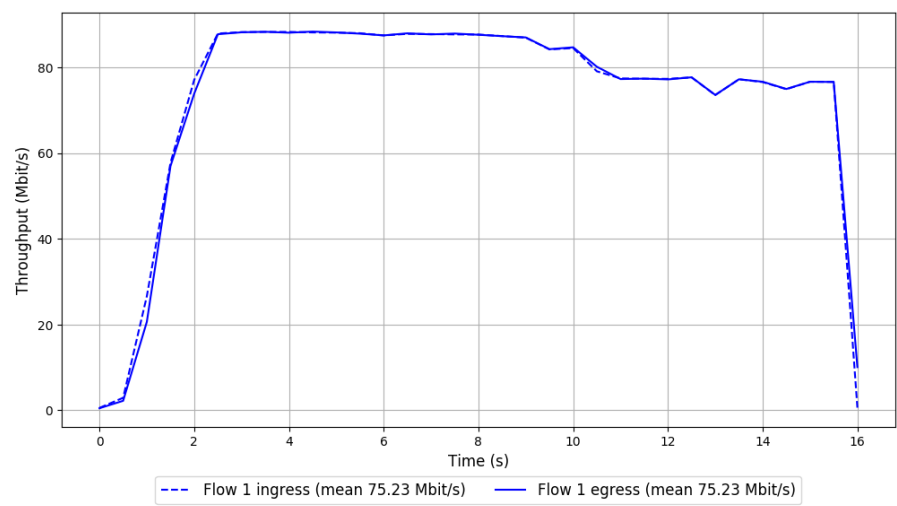


Run 1: Statistics of Copa

Start at: 2017-11-21 09:40:54

End at: 2017-11-21 09:41:24

Run 1: Report of Copa — Data Link

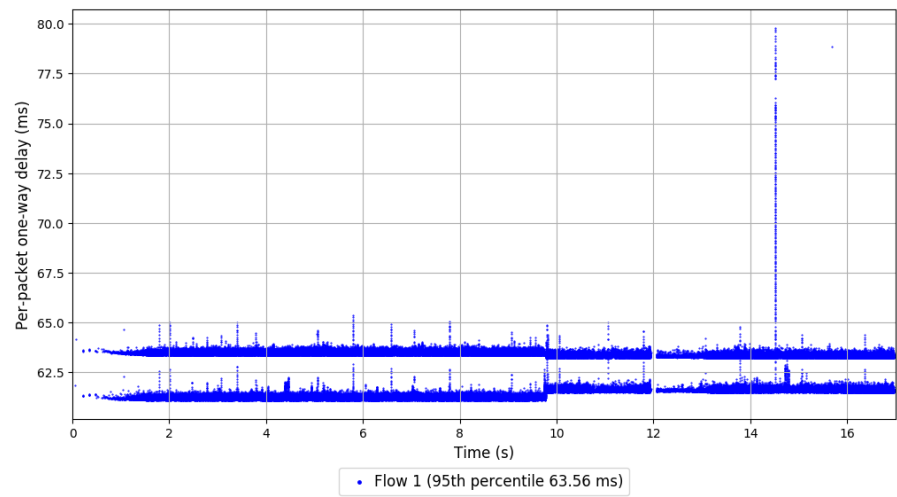
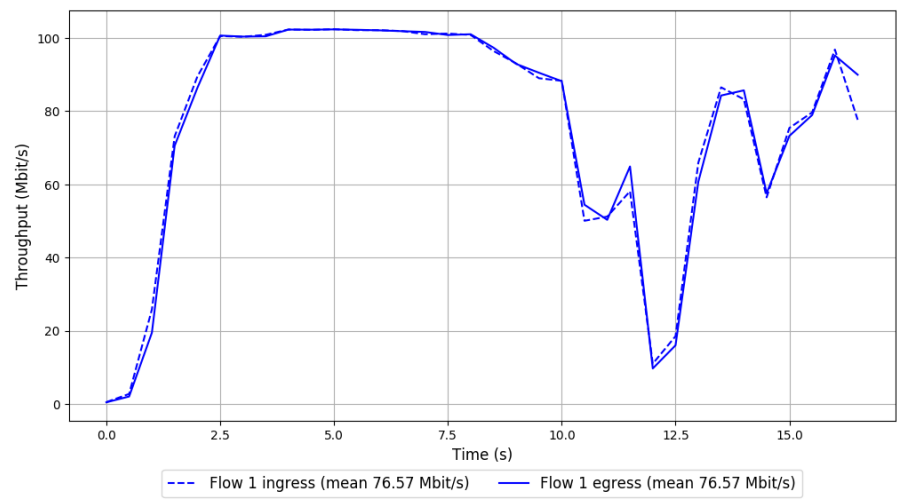


Run 2: Statistics of Copa

Start at: 2017-11-21 09:51:22

End at: 2017-11-21 09:51:52

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-21 10:01:26

End at: 2017-11-21 10:01:56

Below is generated by plot.py at 2017-11-21 12:34:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.02%

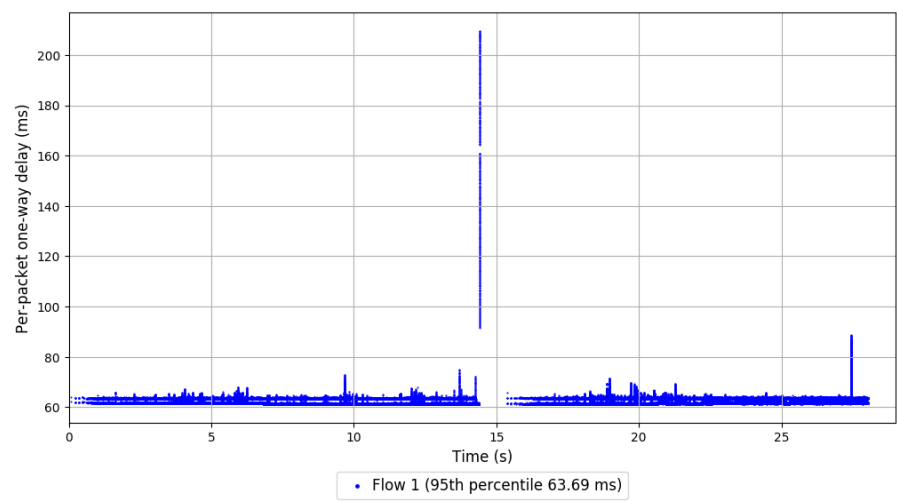
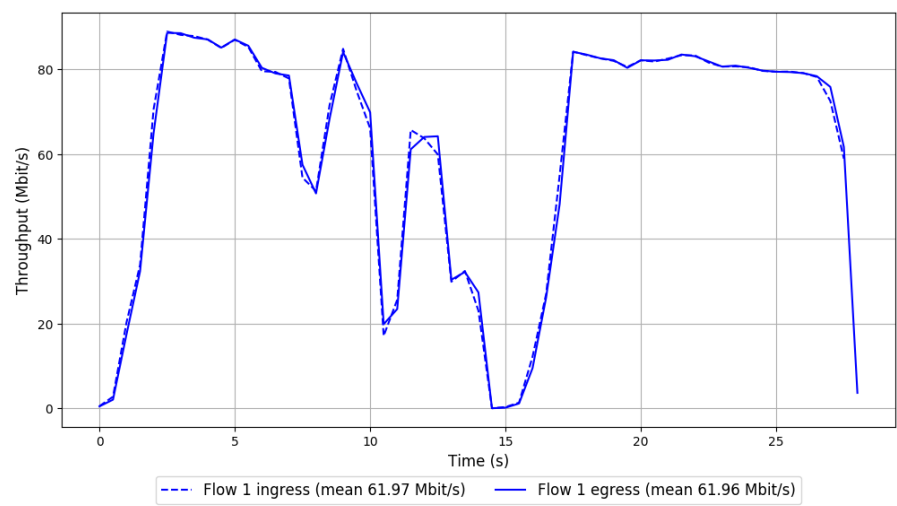
-- Flow 1:

Average throughput: 61.96 Mbit/s

95th percentile per-packet one-way delay: 63.694 ms

Loss rate: 0.02%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 10:11:53

End at: 2017-11-21 10:12:23

Below is generated by plot.py at 2017-11-21 12:34:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.15 Mbit/s

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

Loss rate: 0.01%

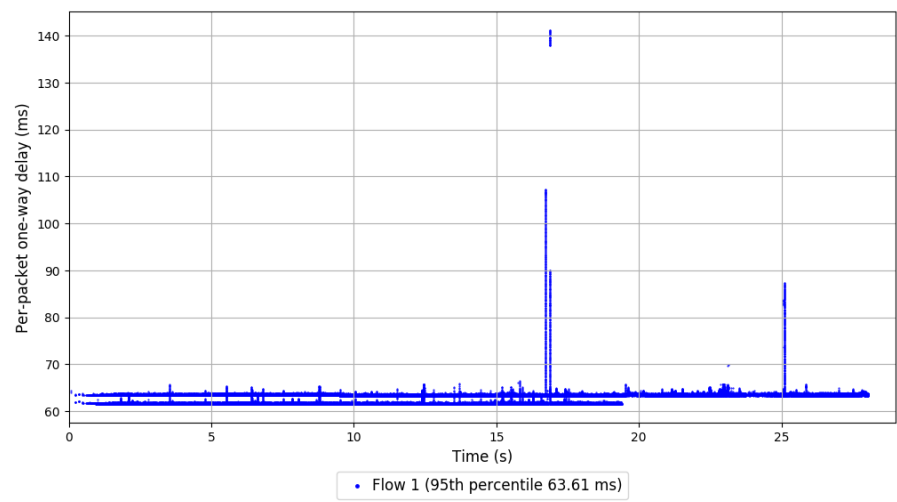
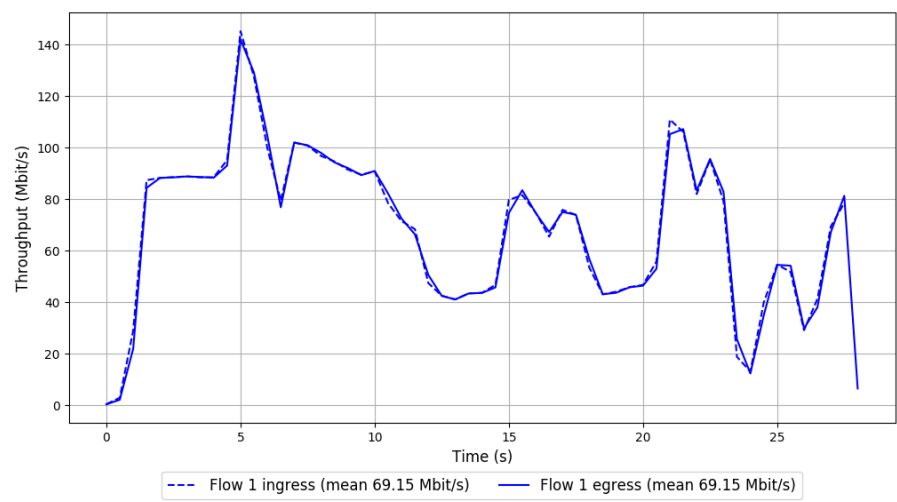
-- Flow 1:

Average throughput: 69.15 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 10:22:30

End at: 2017-11-21 10:23:00

Below is generated by plot.py at 2017-11-21 12:34:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.23 Mbit/s

95th percentile per-packet one-way delay: 63.556 ms

Loss rate: 0.00%

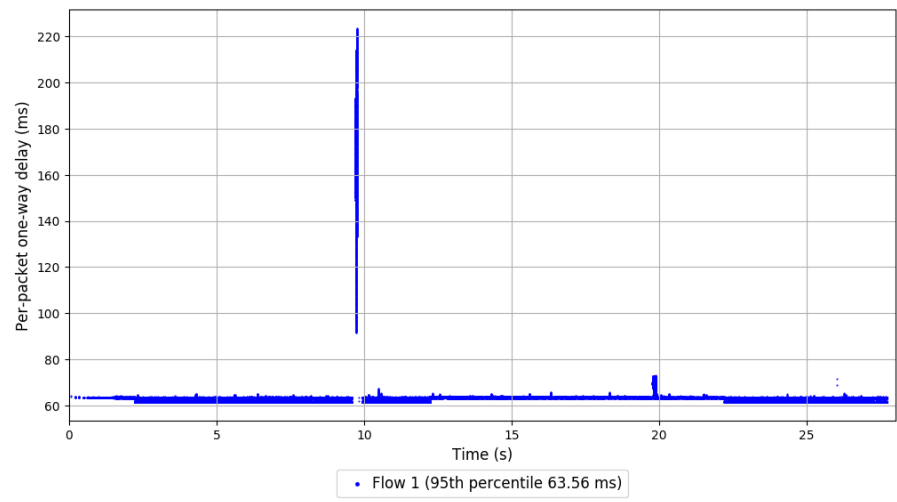
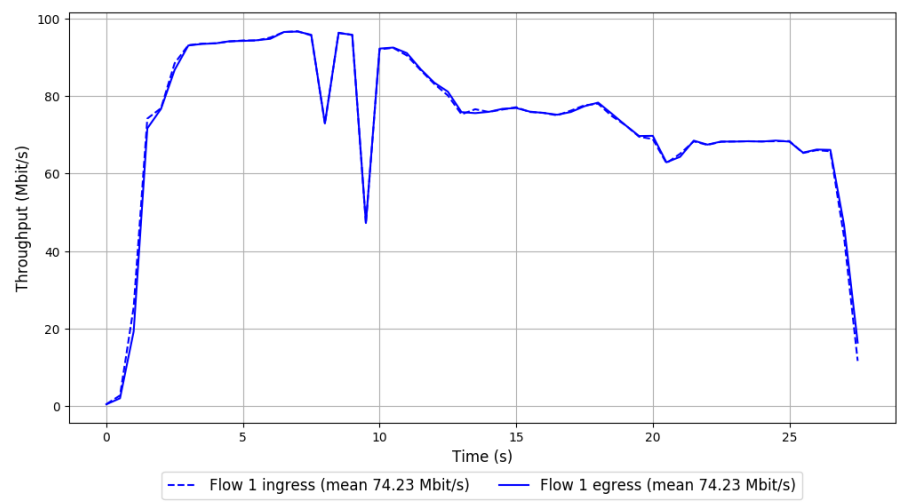
-- Flow 1:

Average throughput: 74.23 Mbit/s

95th percentile per-packet one-way delay: 63.556 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 10:33:00

End at: 2017-11-21 10:33:30

Below is generated by plot.py at 2017-11-21 12:34:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.94 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.00%

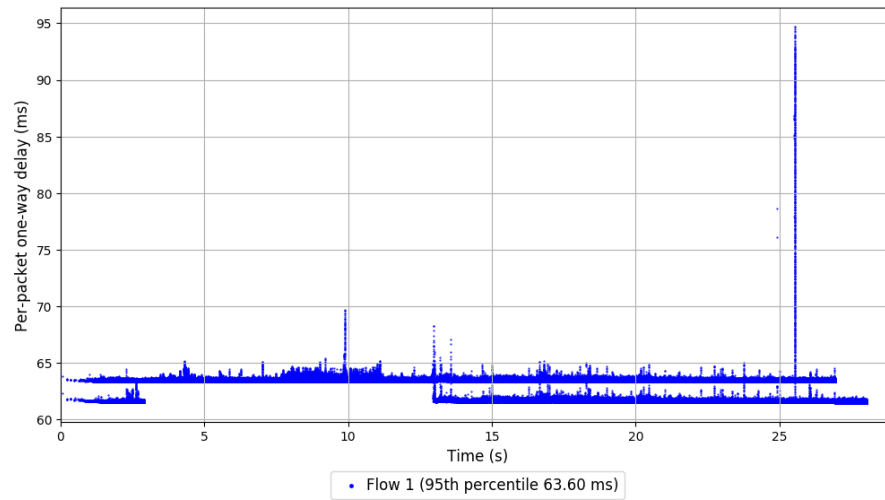
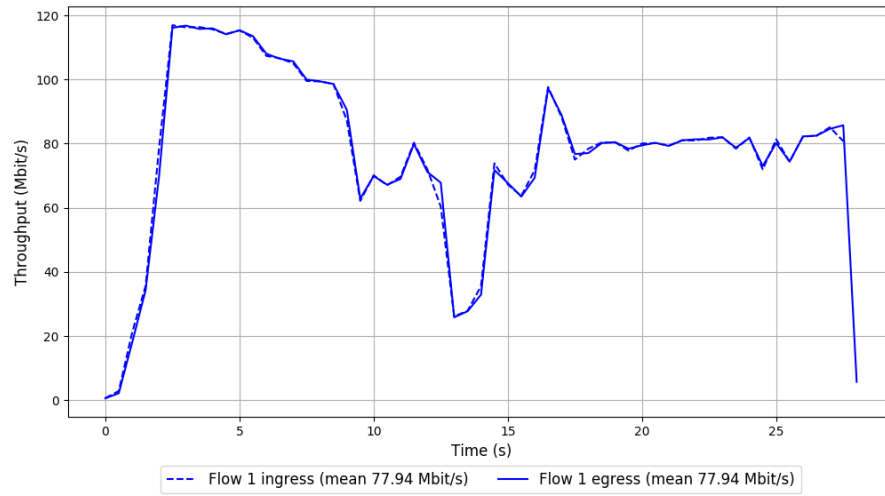
-- Flow 1:

Average throughput: 77.94 Mbit/s

95th percentile per-packet one-way delay: 63.597 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

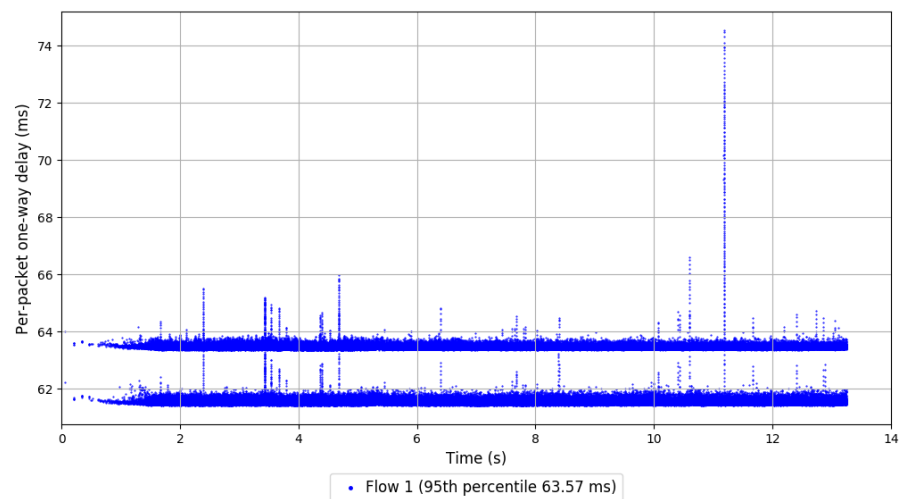
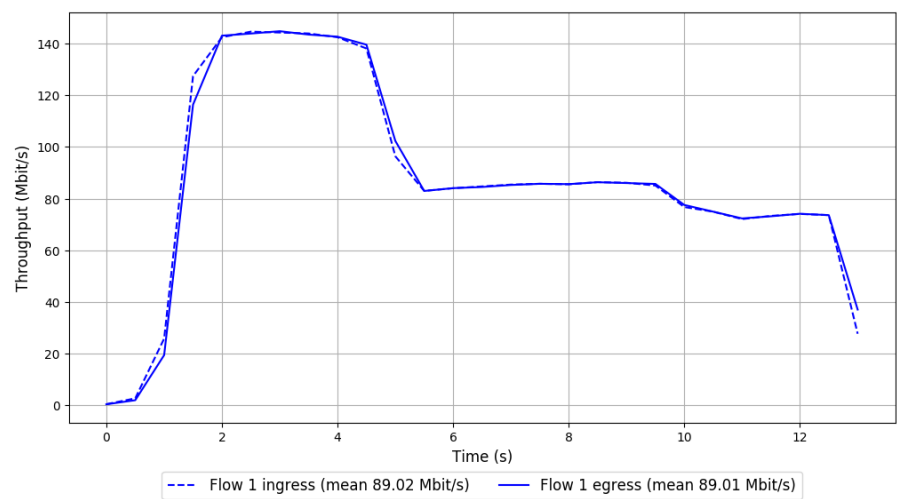


Run 7: Statistics of Copa

Start at: 2017-11-21 10:43:29

End at: 2017-11-21 10:43:59

Run 7: Report of Copa — Data Link

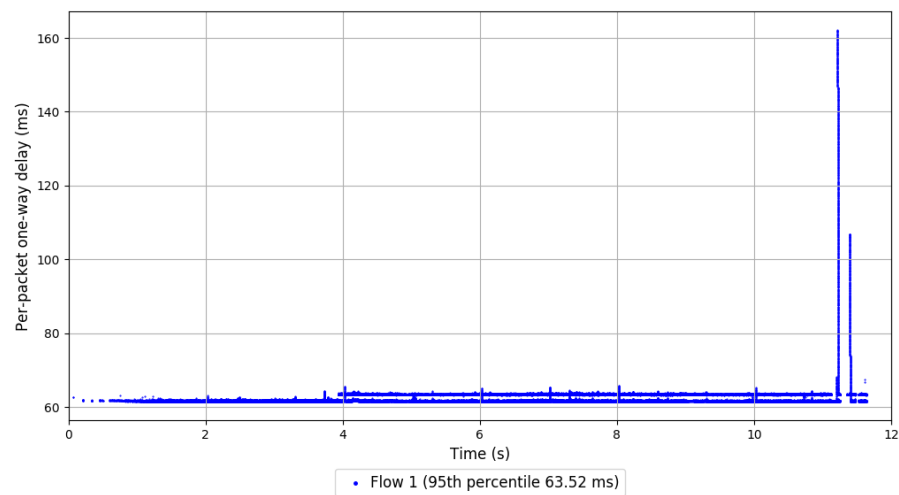
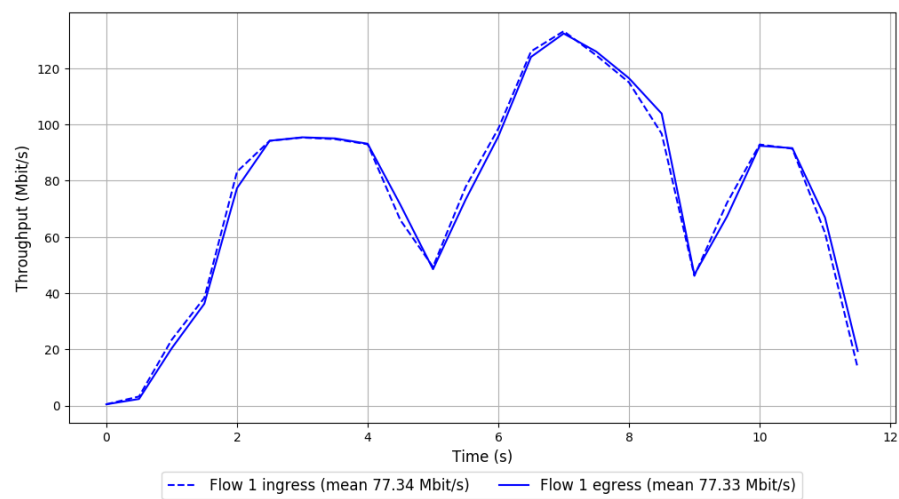


Run 8: Statistics of Copa

Start at: 2017-11-21 10:53:42

End at: 2017-11-21 10:54:12

Run 8: Report of Copa — Data Link

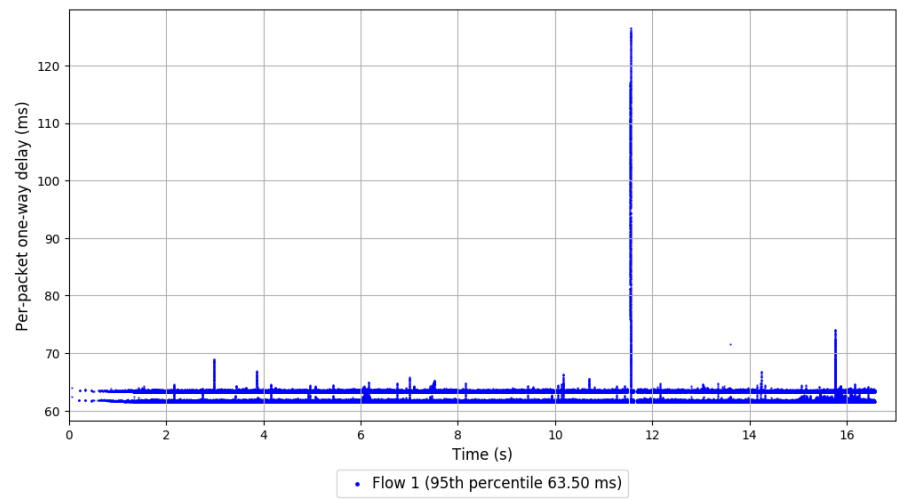
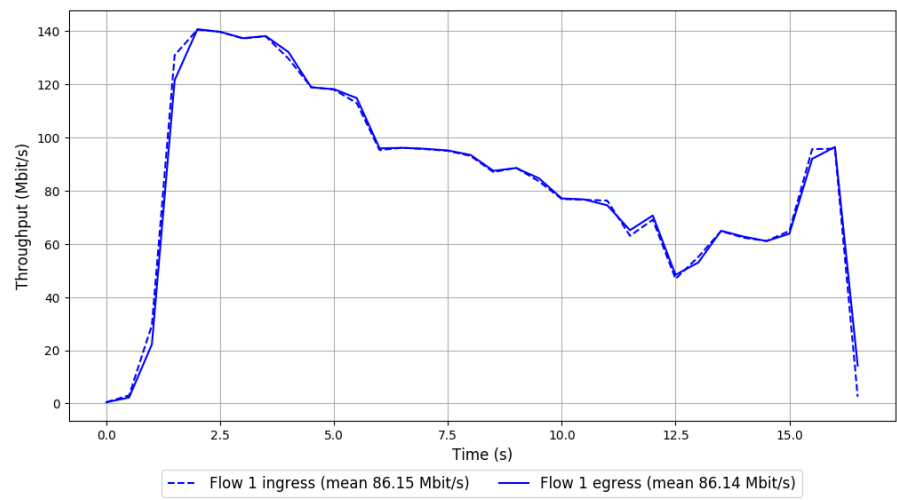


Run 9: Statistics of Copa

Start at: 2017-11-21 11:03:47

End at: 2017-11-21 11:04:17

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 11:14:14

End at: 2017-11-21 11:14:44

Below is generated by plot.py at 2017-11-21 12:35:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 63.601 ms

Loss rate: 0.00%

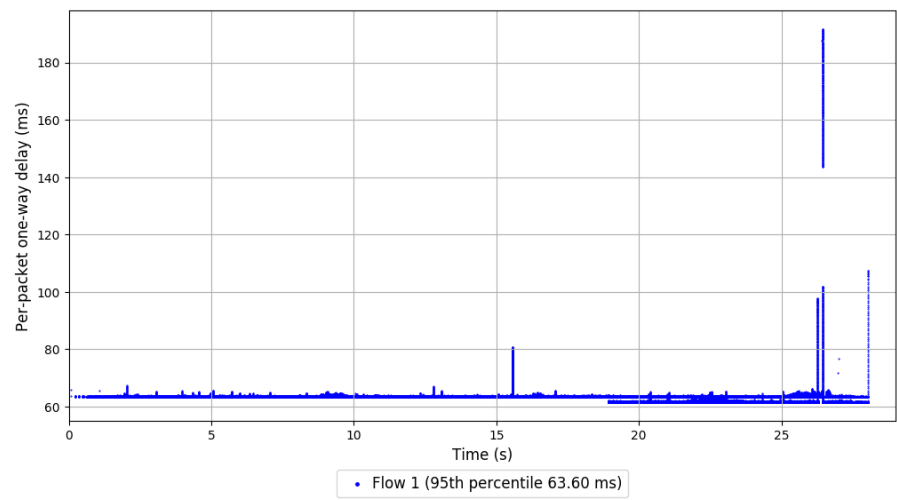
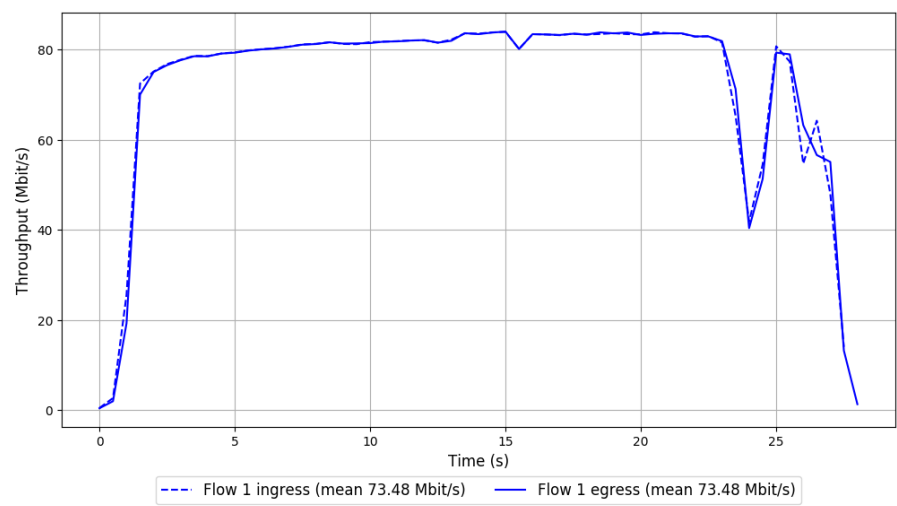
-- Flow 1:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 63.601 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

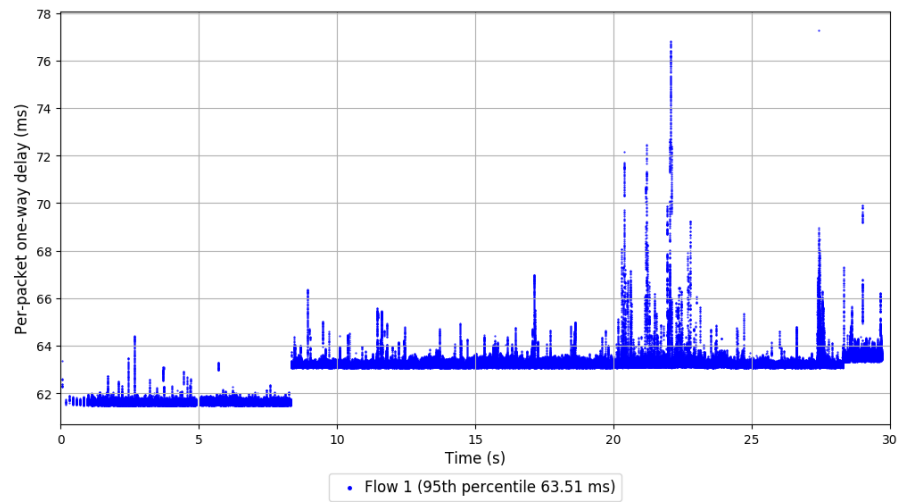
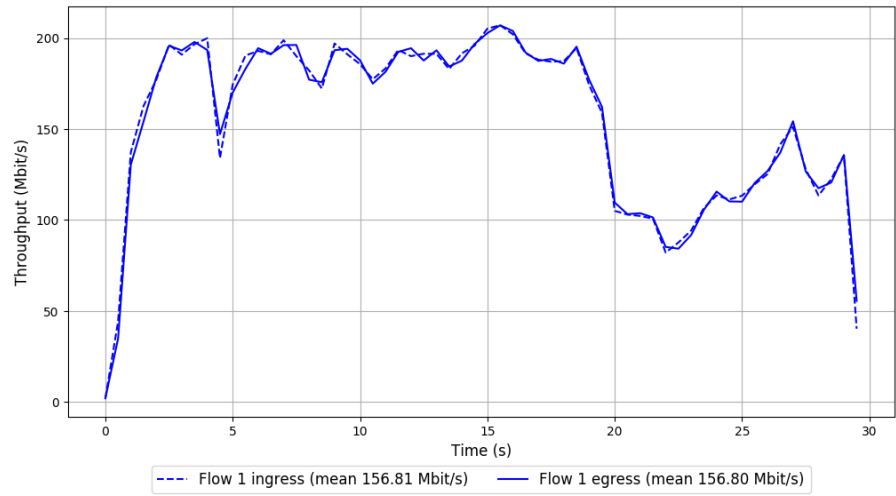


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 09:41:36
End at: 2017-11-21 09:42:06

# Below is generated by plot.py at 2017-11-21 12:37:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.80 Mbit/s
95th percentile per-packet one-way delay: 63.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 156.80 Mbit/s
95th percentile per-packet one-way delay: 63.514 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-21 09:52:04

End at: 2017-11-21 09:52:34

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.96 Mbit/s

95th percentile per-packet one-way delay: 61.753 ms

Loss rate: 0.00%

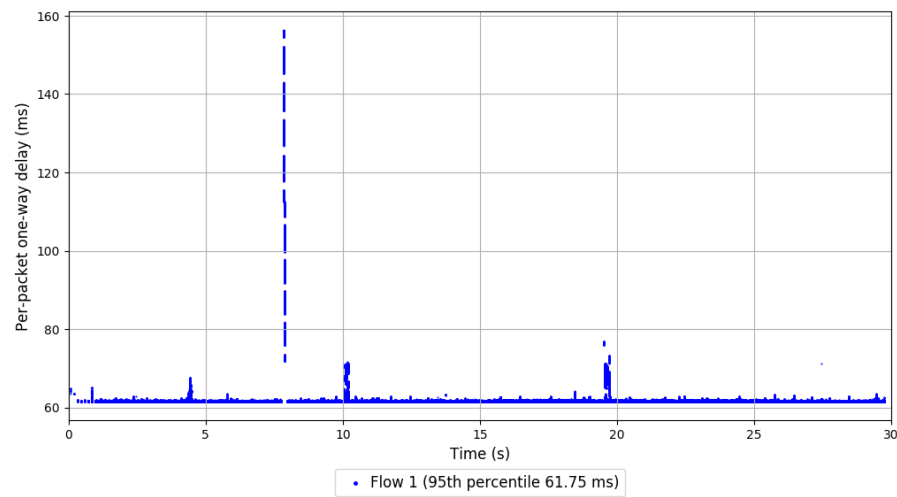
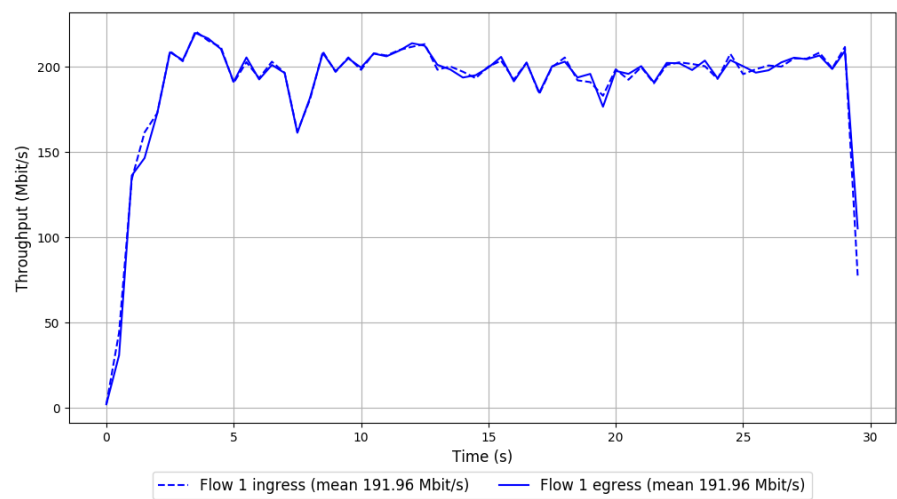
-- Flow 1:

Average throughput: 191.96 Mbit/s

95th percentile per-packet one-way delay: 61.753 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 10:02:10

End at: 2017-11-21 10:02:40

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.32 Mbit/s

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

Loss rate: 0.00%

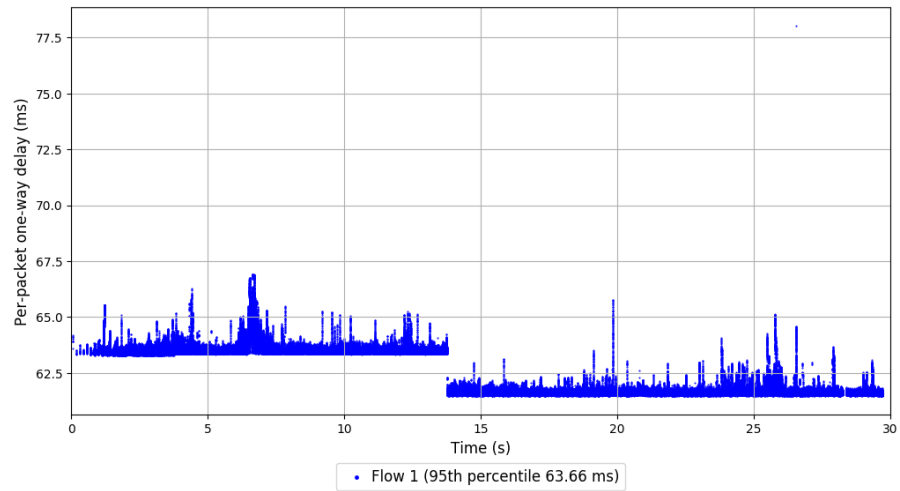
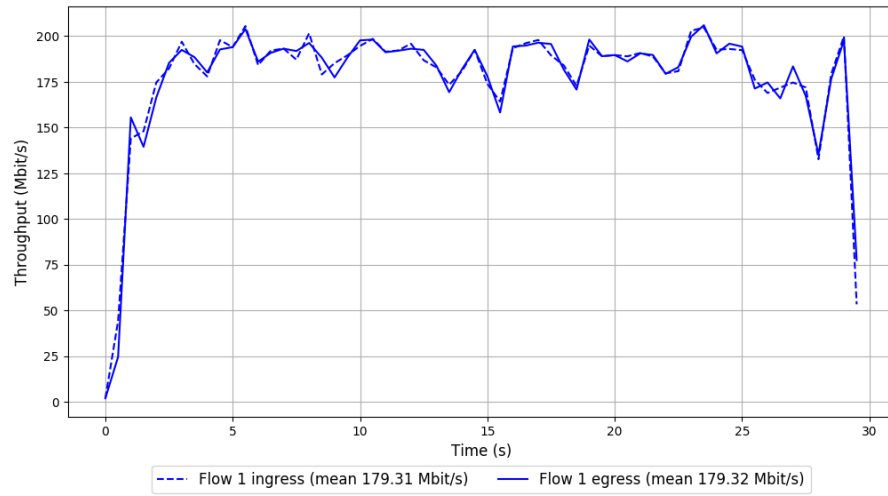
-- Flow 1:

Average throughput: 179.32 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 10:12:38

End at: 2017-11-21 10:13:08

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.90 Mbit/s

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

Loss rate: 0.00%

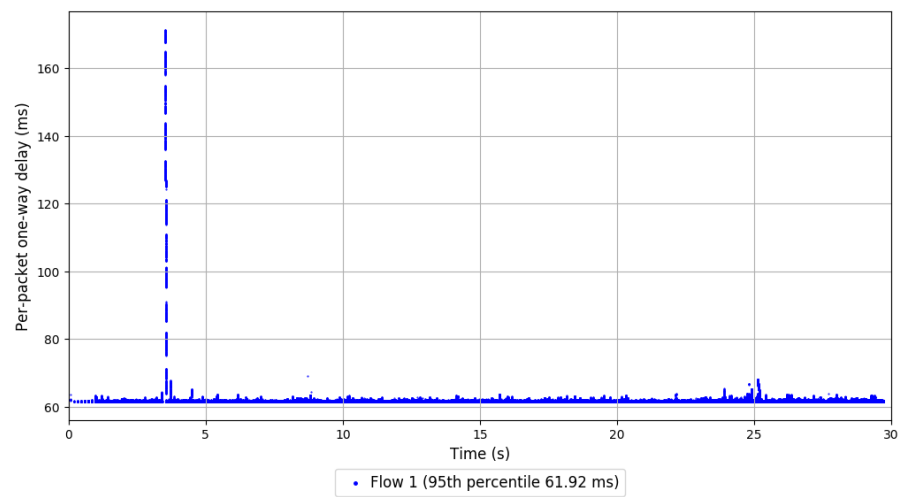
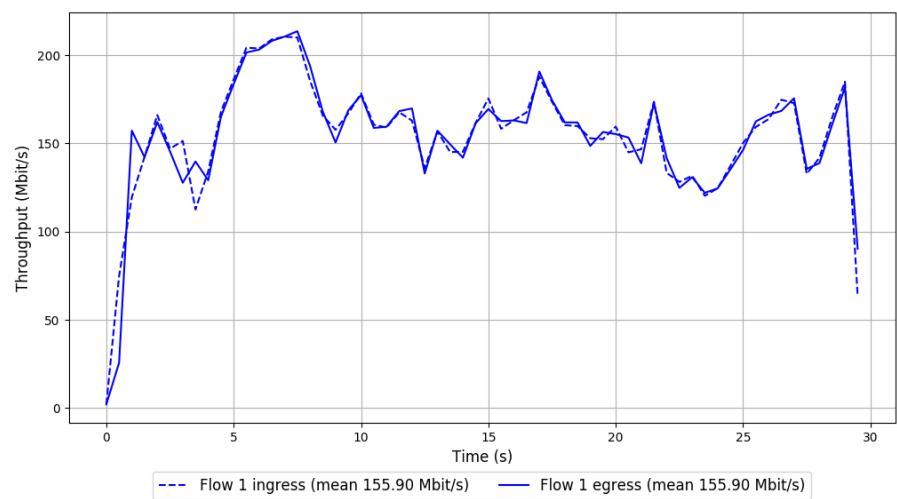
-- Flow 1:

Average throughput: 155.90 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 10:23:15

End at: 2017-11-21 10:23:45

Below is generated by plot.py at 2017-11-21 12:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.16 Mbit/s

95th percentile per-packet one-way delay: 63.523 ms

Loss rate: 0.00%

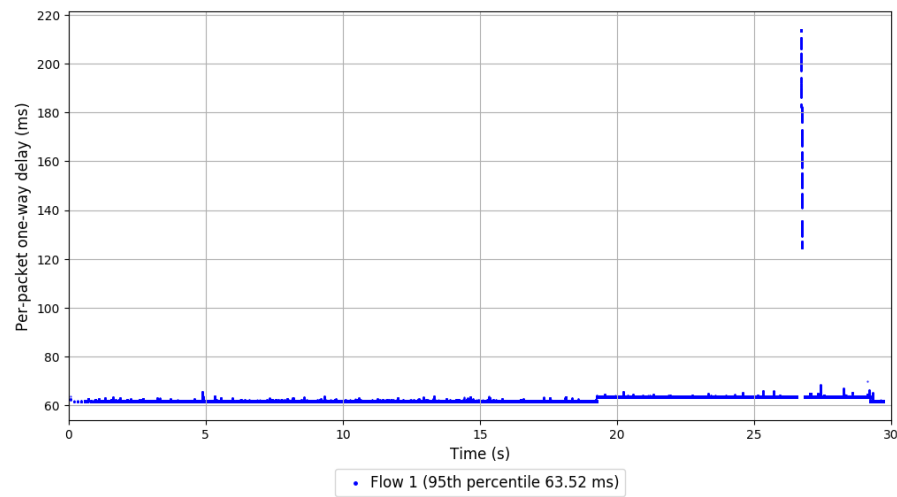
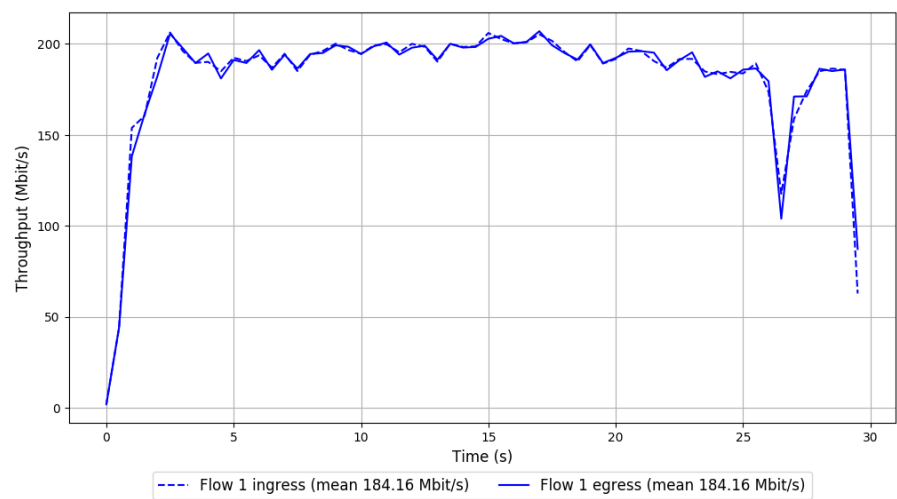
-- Flow 1:

Average throughput: 184.16 Mbit/s

95th percentile per-packet one-way delay: 63.523 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 10:33:45

End at: 2017-11-21 10:34:15

Below is generated by plot.py at 2017-11-21 12:37:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.11 Mbit/s

95th percentile per-packet one-way delay: 63.541 ms

Loss rate: 0.00%

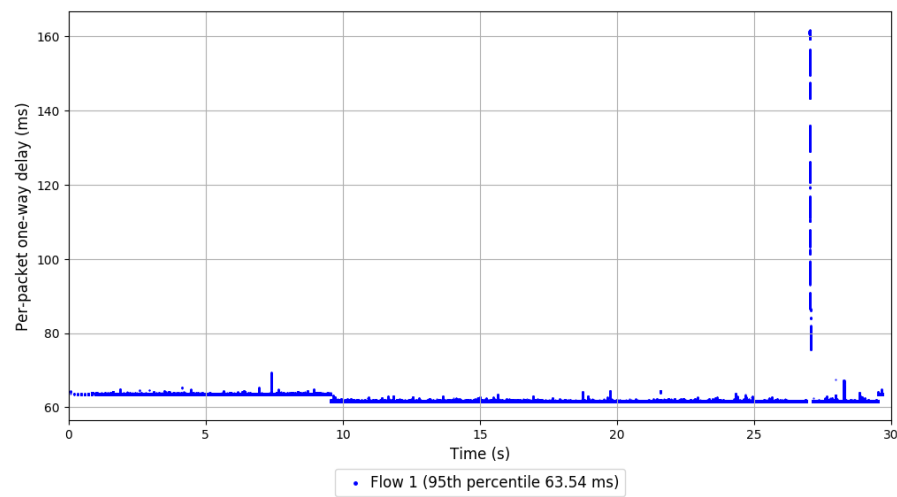
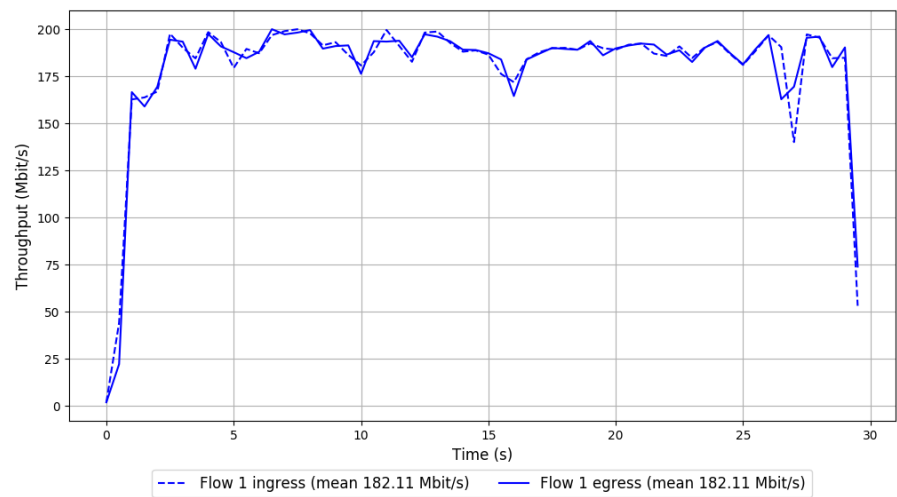
-- Flow 1:

Average throughput: 182.11 Mbit/s

95th percentile per-packet one-way delay: 63.541 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 10:44:11

End at: 2017-11-21 10:44:41

Below is generated by plot.py at 2017-11-21 12:37:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.76 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.00%

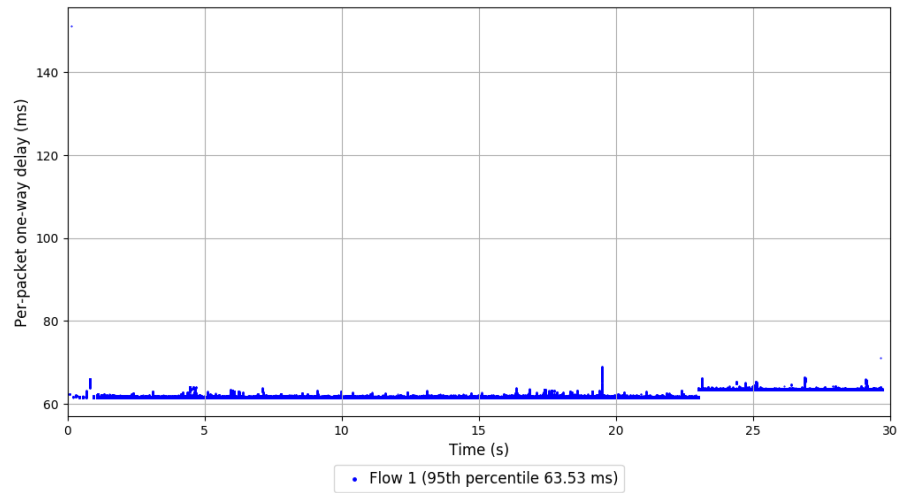
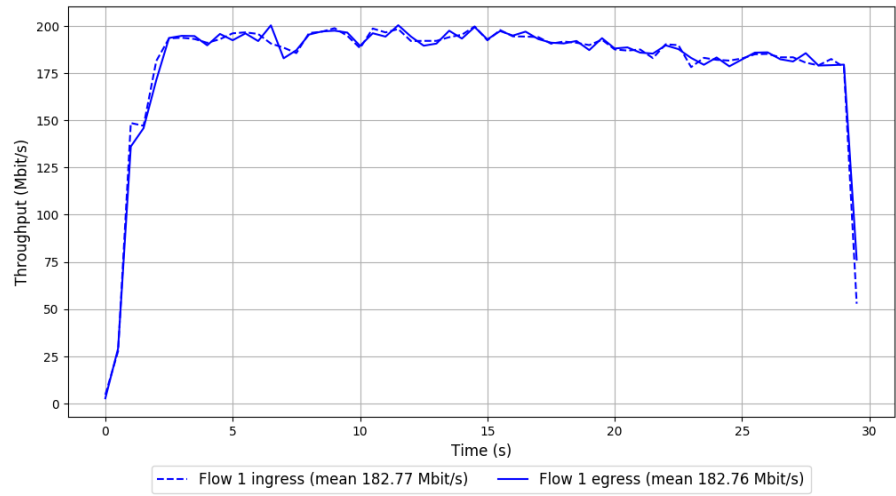
-- Flow 1:

Average throughput: 182.76 Mbit/s

95th percentile per-packet one-way delay: 63.527 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 10:54:23

End at: 2017-11-21 10:54:53

Below is generated by plot.py at 2017-11-21 12:39:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.67 Mbit/s

95th percentile per-packet one-way delay: 61.799 ms

Loss rate: 0.00%

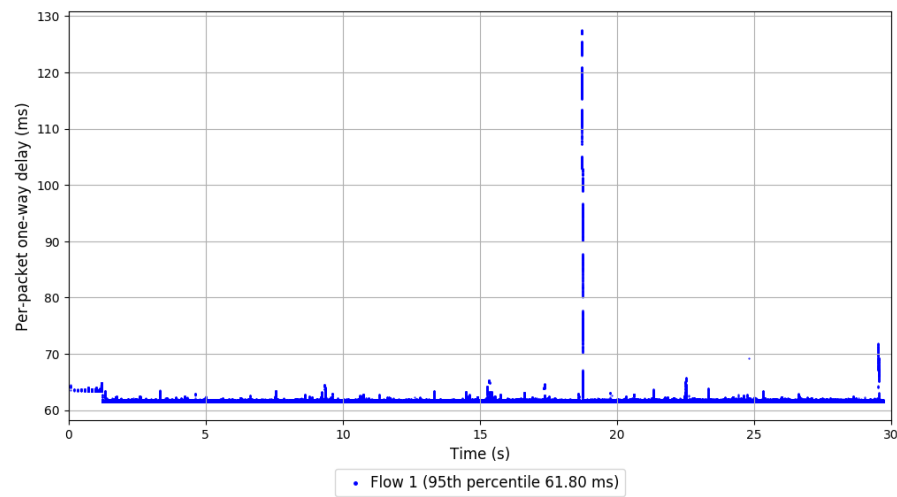
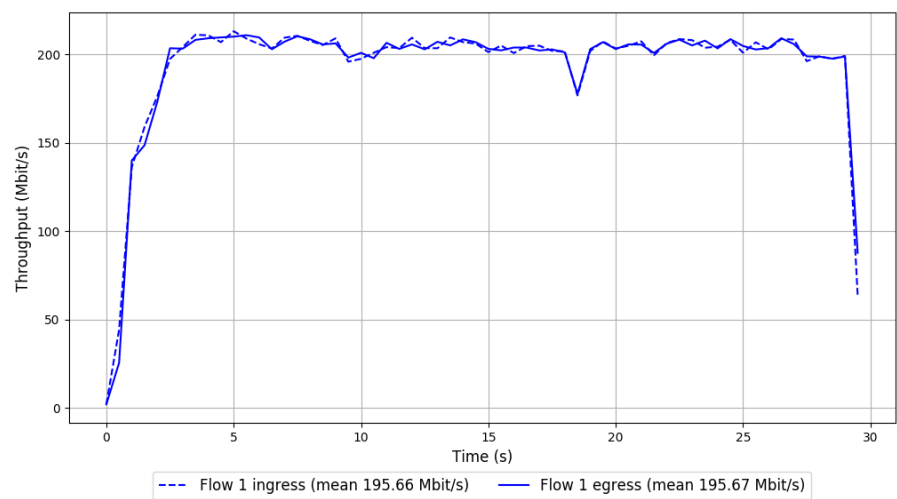
-- Flow 1:

Average throughput: 195.67 Mbit/s

95th percentile per-packet one-way delay: 61.799 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 11:04:30

End at: 2017-11-21 11:05:00

Below is generated by plot.py at 2017-11-21 12:40:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.09 Mbit/s

95th percentile per-packet one-way delay: 63.538 ms

Loss rate: 0.00%

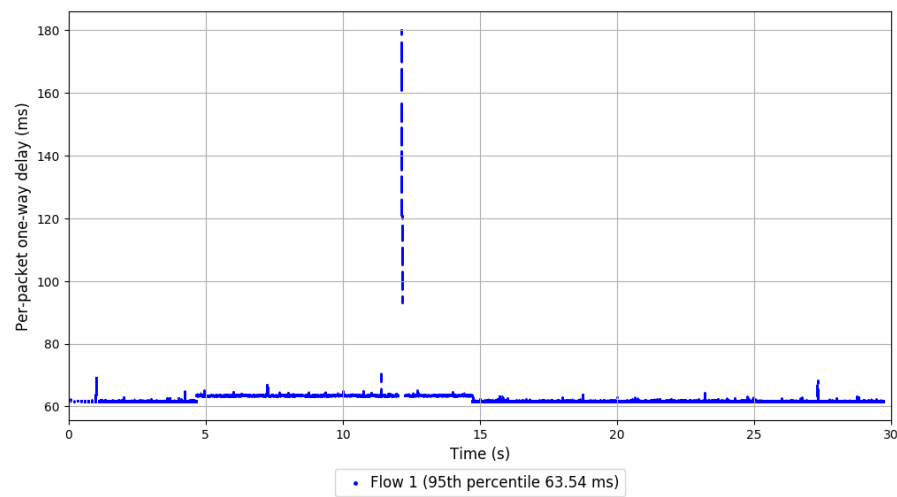
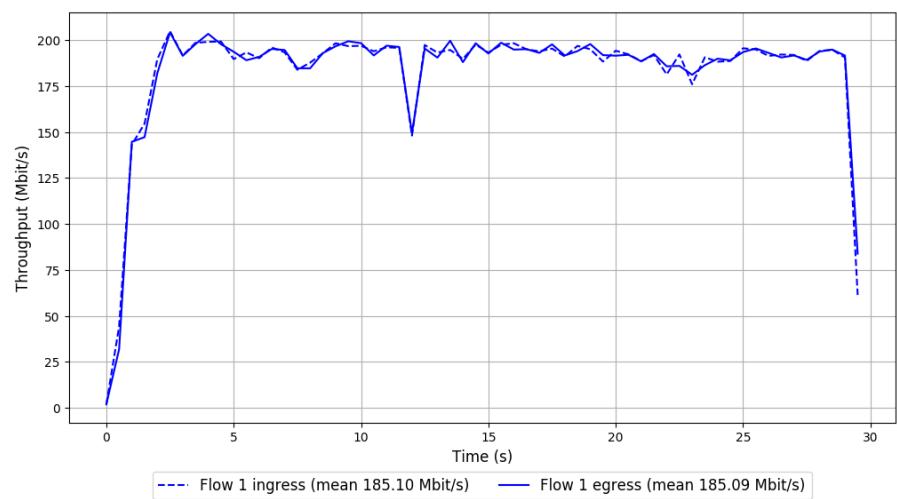
-- Flow 1:

Average throughput: 185.09 Mbit/s

95th percentile per-packet one-way delay: 63.538 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 11:14:58

End at: 2017-11-21 11:15:28

Below is generated by plot.py at 2017-11-21 12:40:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.15 Mbit/s

95th percentile per-packet one-way delay: 63.547 ms

Loss rate: 0.00%

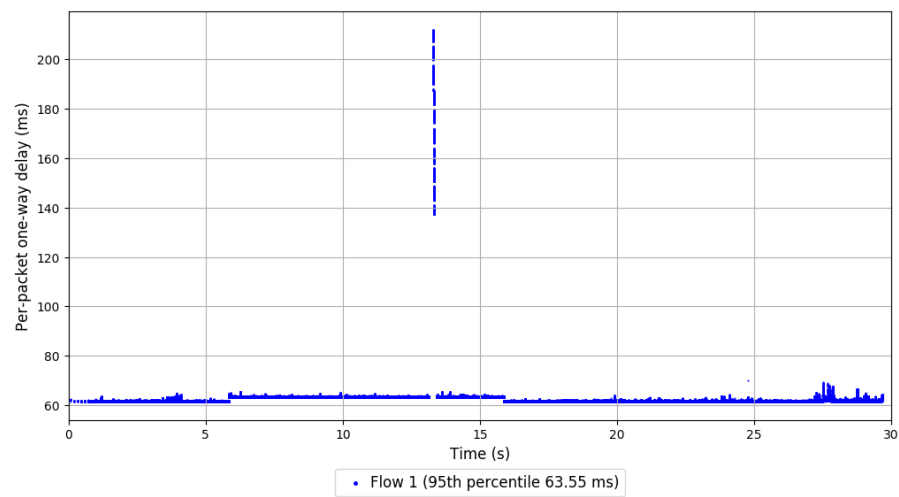
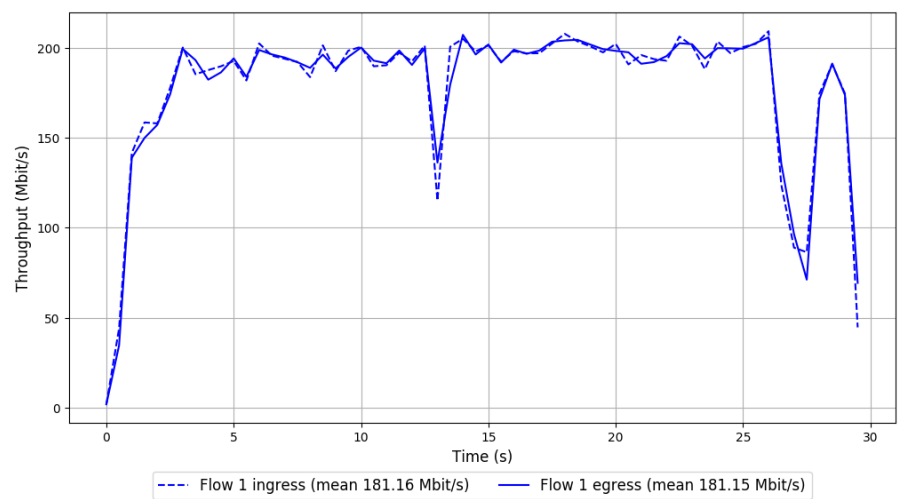
-- Flow 1:

Average throughput: 181.15 Mbit/s

95th percentile per-packet one-way delay: 63.547 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

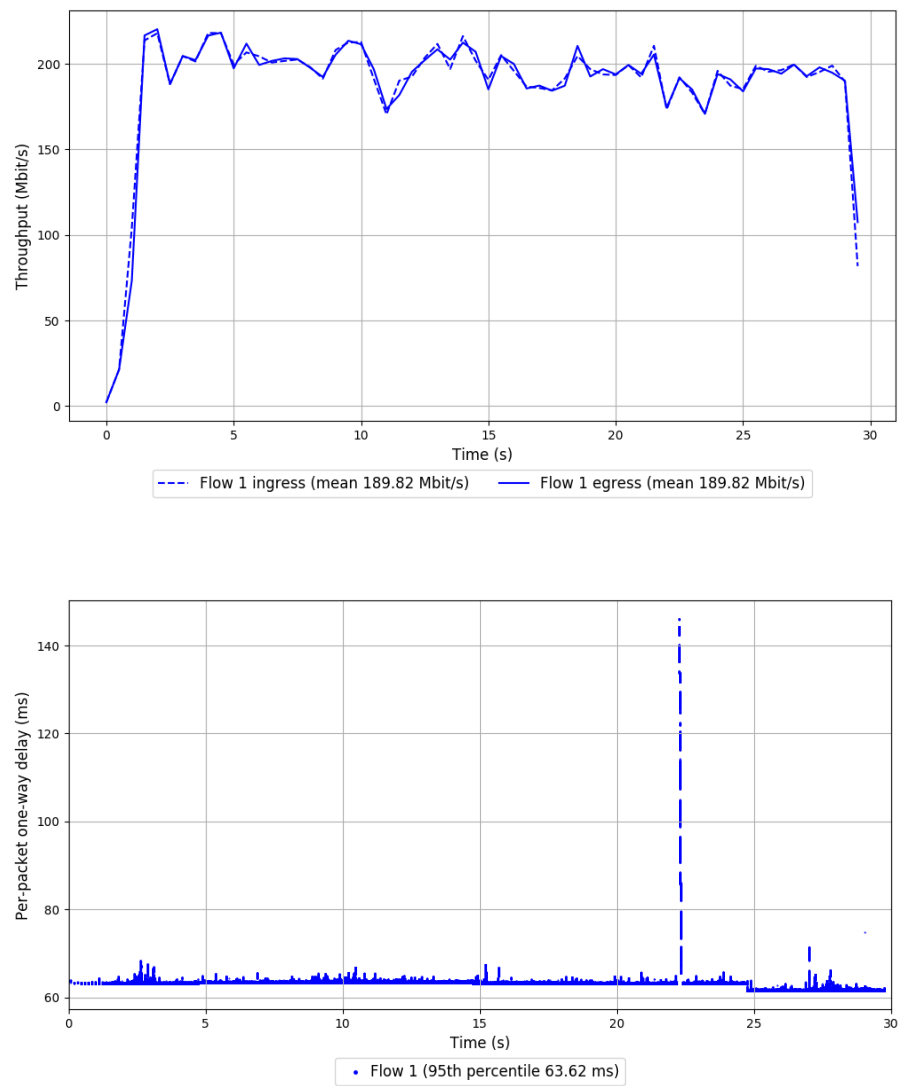


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 09:35:49
End at: 2017-11-21 09:36:19

# Below is generated by plot.py at 2017-11-21 12:41:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.82 Mbit/s
95th percentile per-packet one-way delay: 63.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 189.82 Mbit/s
95th percentile per-packet one-way delay: 63.616 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

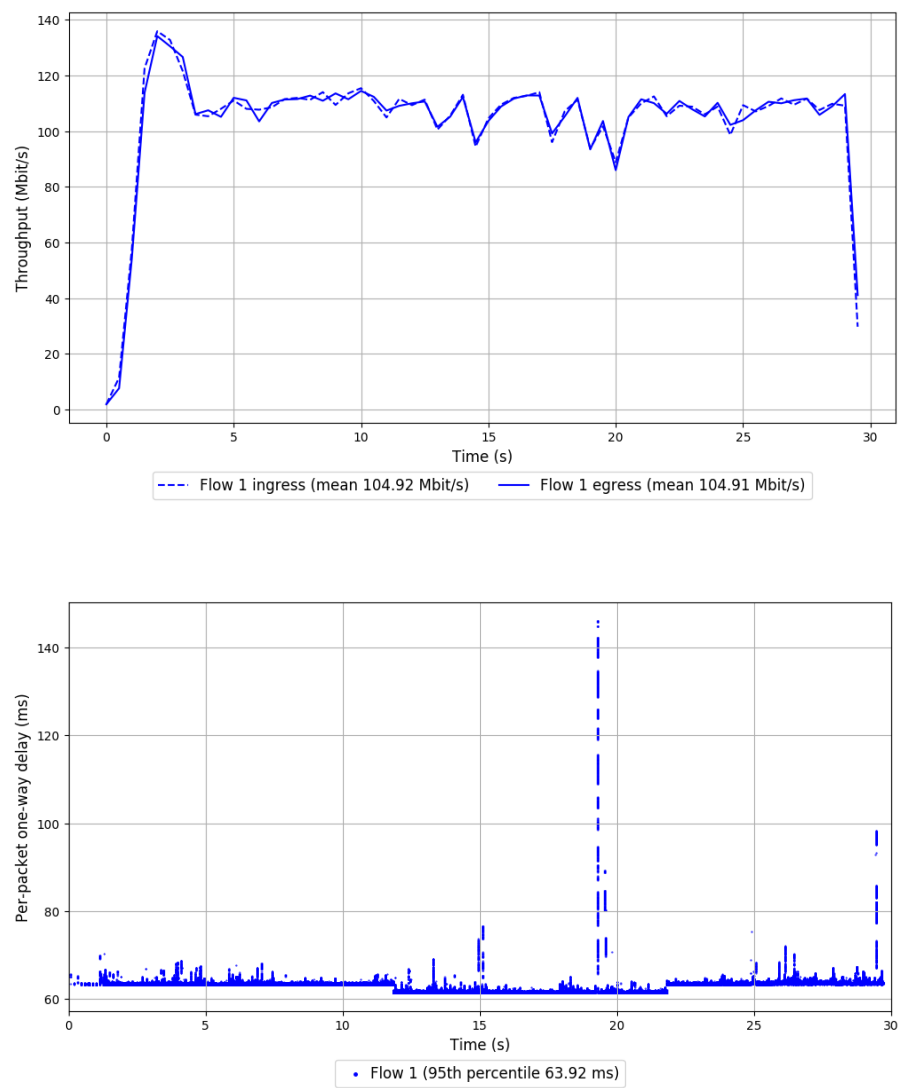


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 09:46:22
End at: 2017-11-21 09:46:52

# Below is generated by plot.py at 2017-11-21 12:41:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.91 Mbit/s
95th percentile per-packet one-way delay: 63.916 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 104.91 Mbit/s
95th percentile per-packet one-way delay: 63.916 ms
Loss rate: 0.01%
```

Run 2: Report of Indigo-calib — Data Link

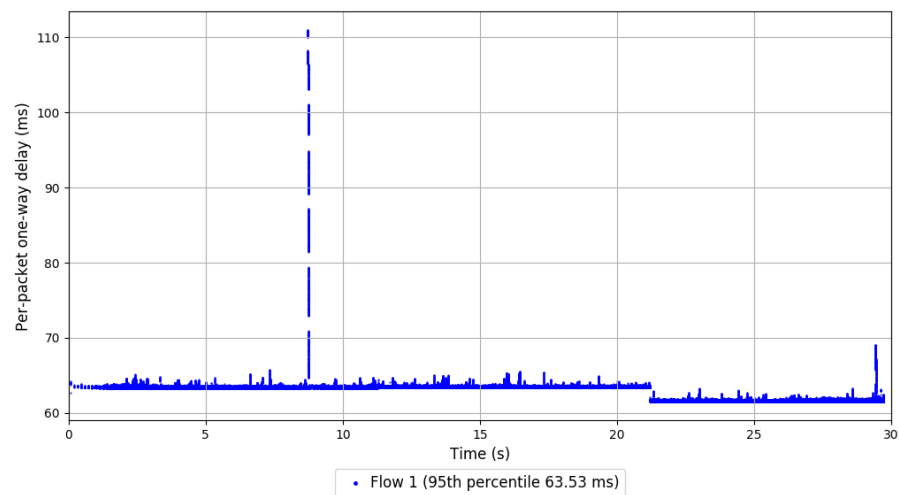
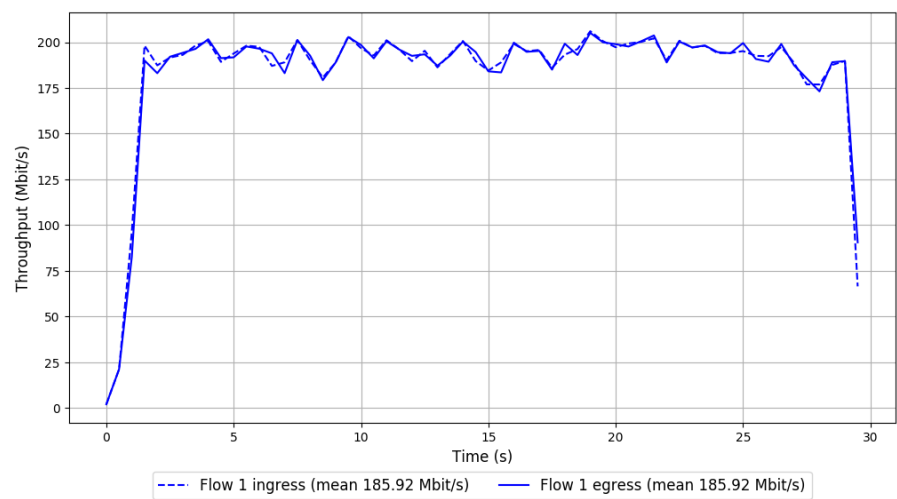


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 09:56:33
End at: 2017-11-21 09:57:03

# Below is generated by plot.py at 2017-11-21 12:41:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.92 Mbit/s
95th percentile per-packet one-way delay: 63.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 185.92 Mbit/s
95th percentile per-packet one-way delay: 63.535 ms
Loss rate: 0.00%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 10:06:53

End at: 2017-11-21 10:07:23

Below is generated by plot.py at 2017-11-21 12:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.82 Mbit/s

95th percentile per-packet one-way delay: 63.517 ms

Loss rate: 0.01%

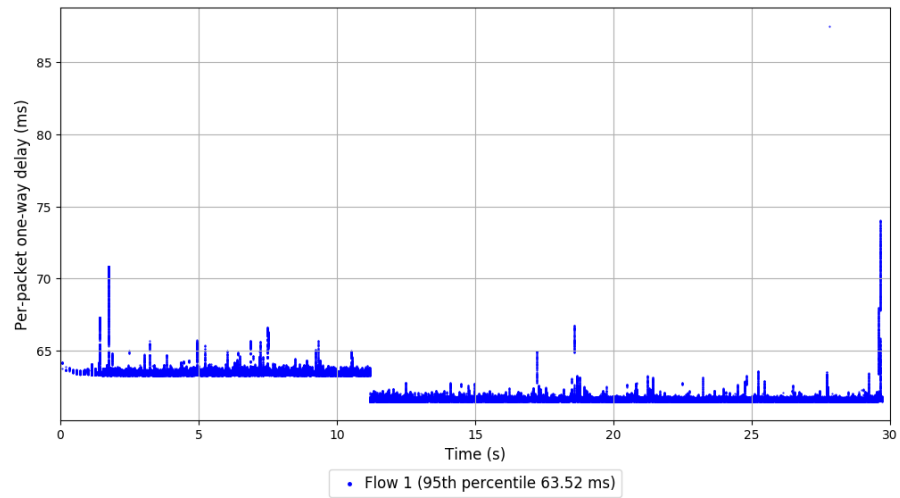
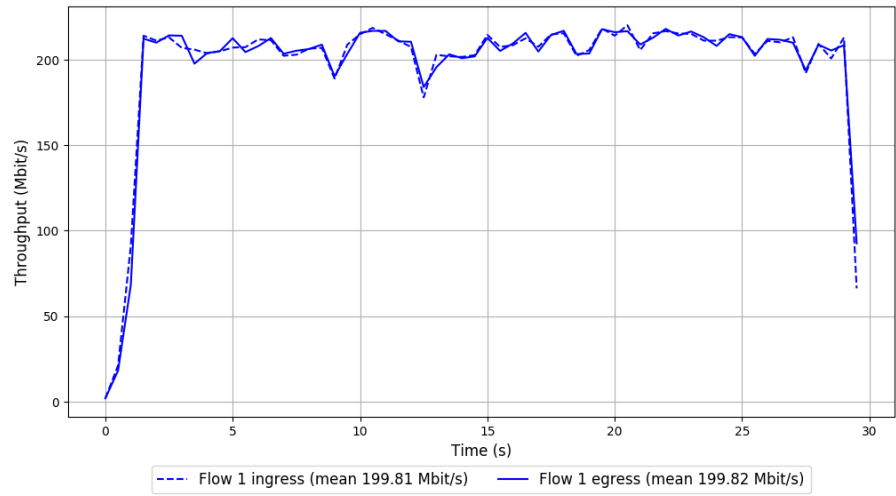
-- Flow 1:

Average throughput: 199.82 Mbit/s

95th percentile per-packet one-way delay: 63.517 ms

Loss rate: 0.01%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 10:17:29

End at: 2017-11-21 10:17:59

Below is generated by plot.py at 2017-11-21 12:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.02 Mbit/s

95th percentile per-packet one-way delay: 63.497 ms

Loss rate: 0.00%

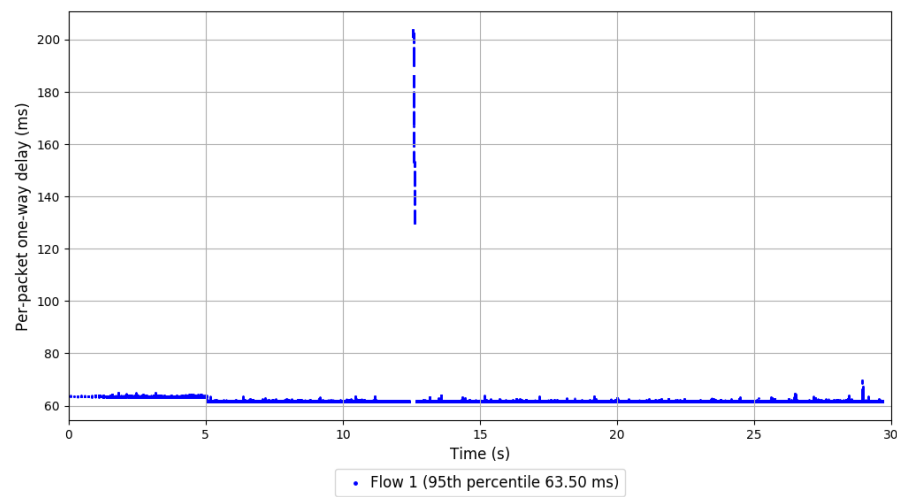
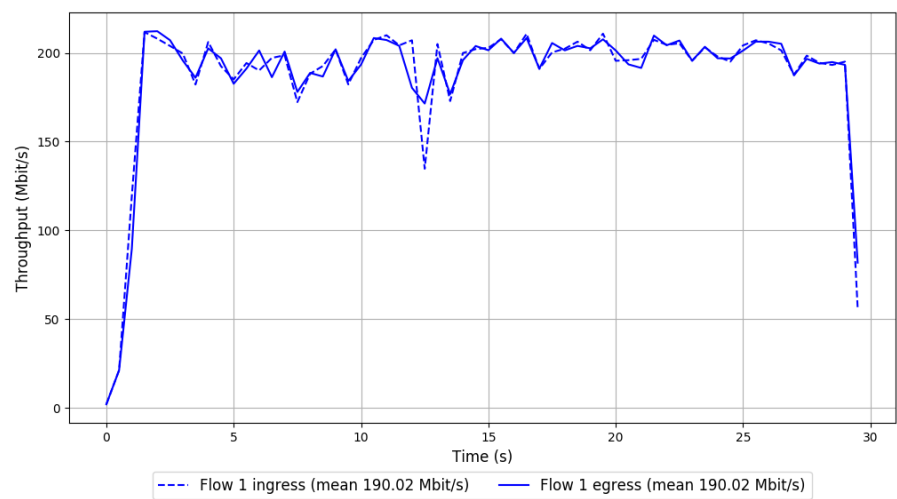
-- Flow 1:

Average throughput: 190.02 Mbit/s

95th percentile per-packet one-way delay: 63.497 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 10:28:00

End at: 2017-11-21 10:28:30

Below is generated by plot.py at 2017-11-21 12:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.69 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 0.00%

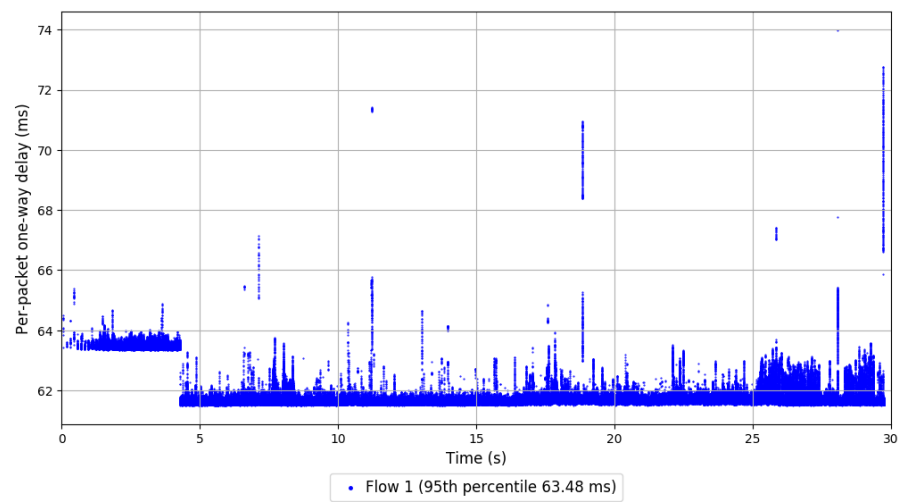
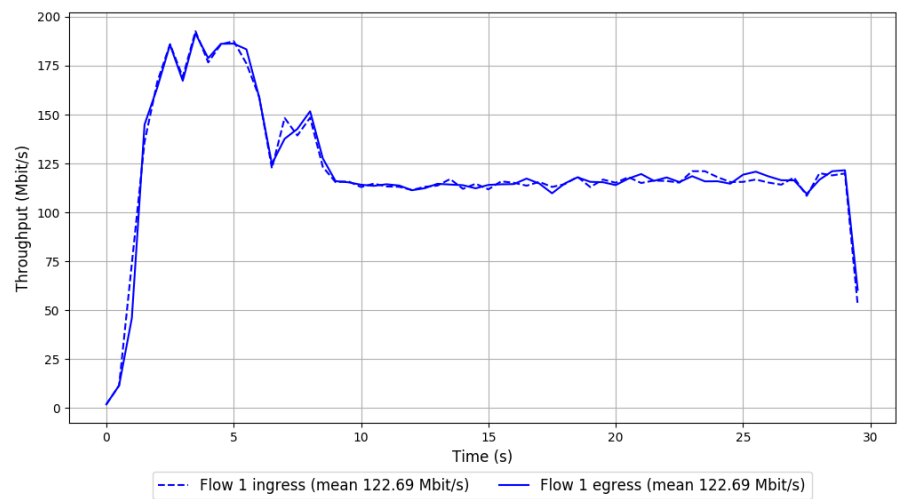
-- Flow 1:

Average throughput: 122.69 Mbit/s

95th percentile per-packet one-way delay: 63.484 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 10:38:29

End at: 2017-11-21 10:38:59

Below is generated by plot.py at 2017-11-21 12:42:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.85 Mbit/s

95th percentile per-packet one-way delay: 63.645 ms

Loss rate: 0.00%

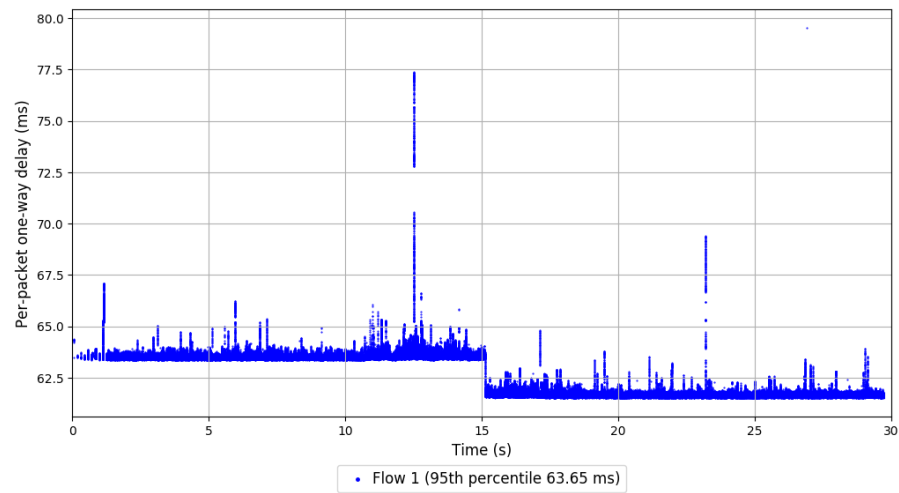
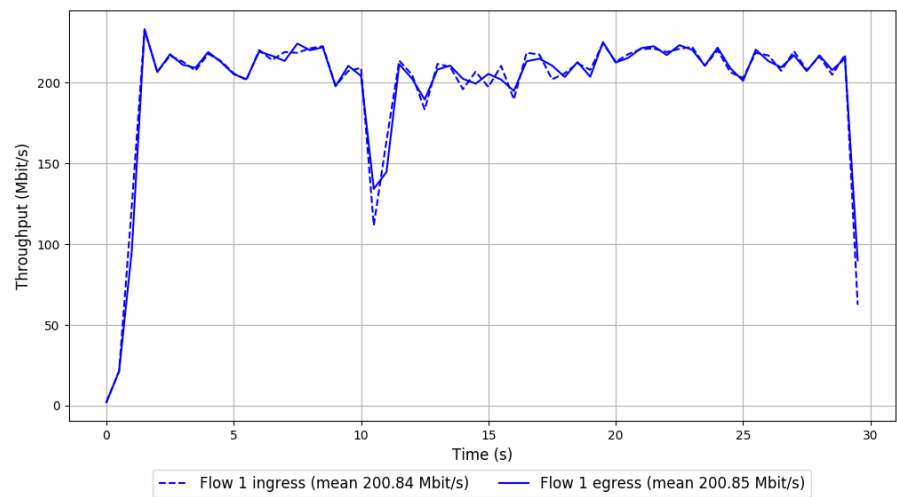
-- Flow 1:

Average throughput: 200.85 Mbit/s

95th percentile per-packet one-way delay: 63.645 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 10:48:42

End at: 2017-11-21 10:49:12

Below is generated by plot.py at 2017-11-21 12:42:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.60 Mbit/s

95th percentile per-packet one-way delay: 61.792 ms

Loss rate: 0.00%

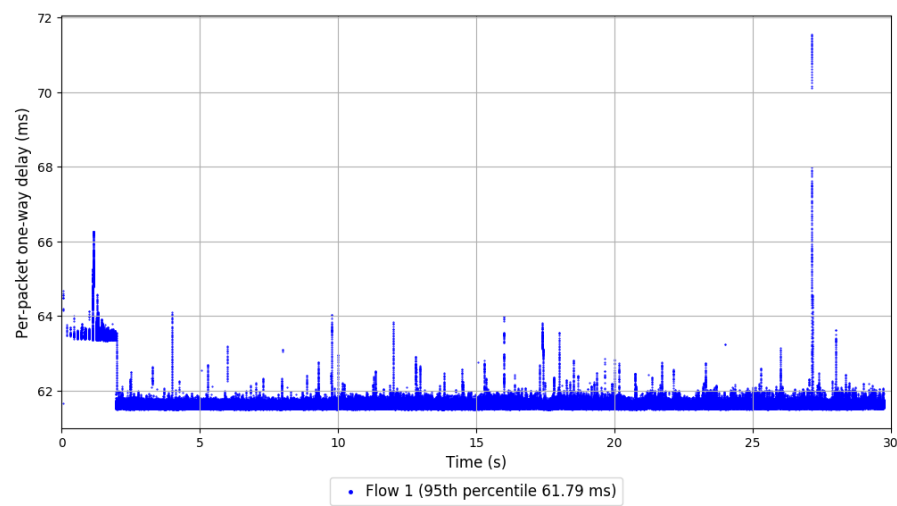
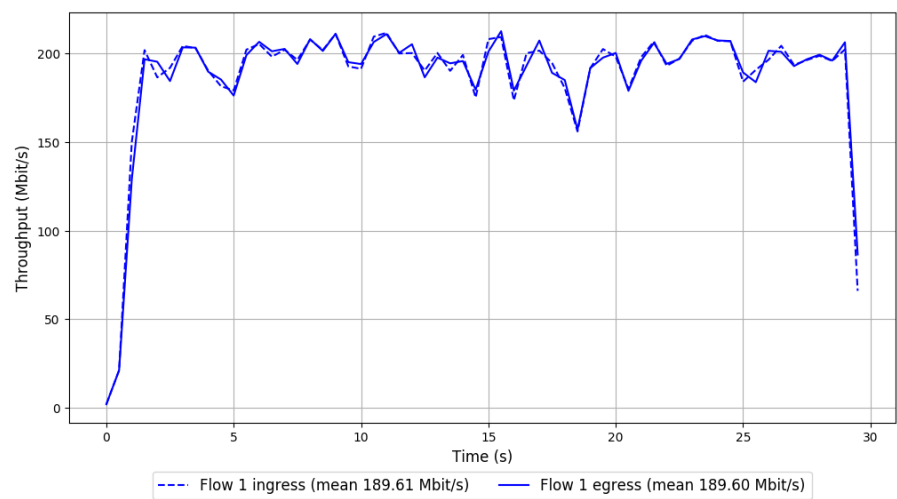
-- Flow 1:

Average throughput: 189.60 Mbit/s

95th percentile per-packet one-way delay: 61.792 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 10:58:43

End at: 2017-11-21 10:59:13

Below is generated by plot.py at 2017-11-21 12:42:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.86 Mbit/s

95th percentile per-packet one-way delay: 61.831 ms

Loss rate: 0.00%

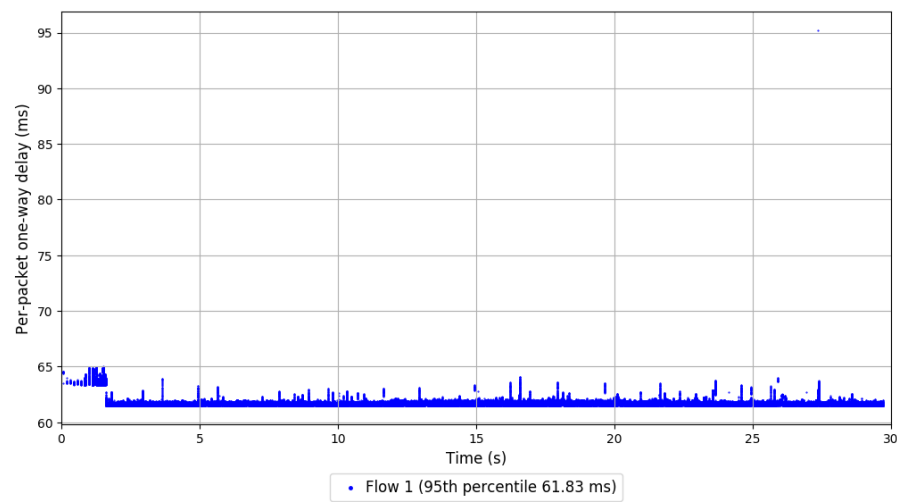
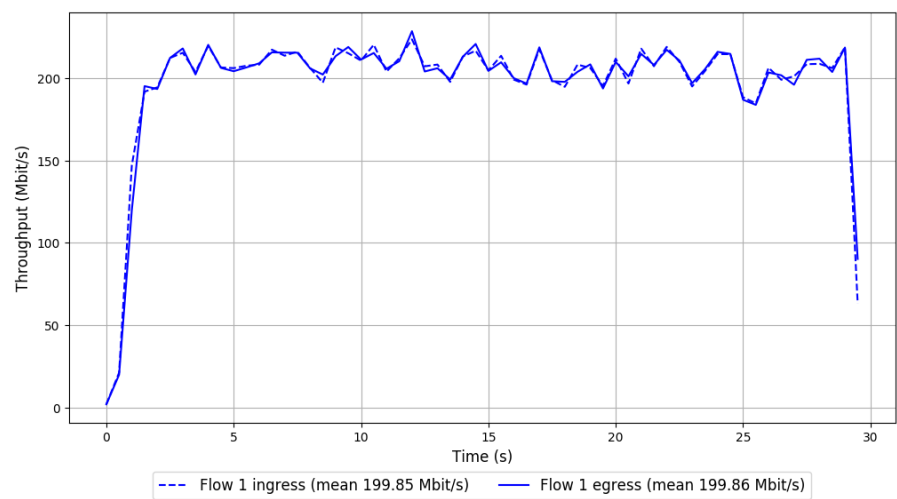
-- Flow 1:

Average throughput: 199.86 Mbit/s

95th percentile per-packet one-way delay: 61.831 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 11:09:13

End at: 2017-11-21 11:09:43

Below is generated by plot.py at 2017-11-21 12:42:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.96 Mbit/s

95th percentile per-packet one-way delay: 61.770 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 194.96 Mbit/s

95th percentile per-packet one-way delay: 61.770 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

