

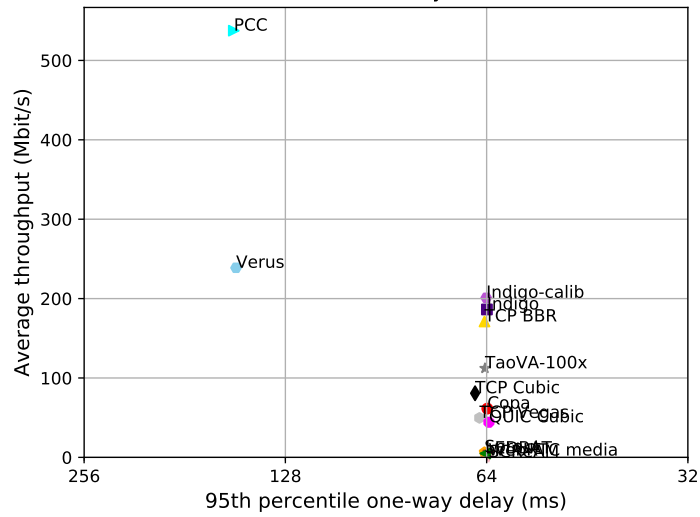
Pantheon Report

Generated at 2017-11-21 12:03:03 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo.fast**).

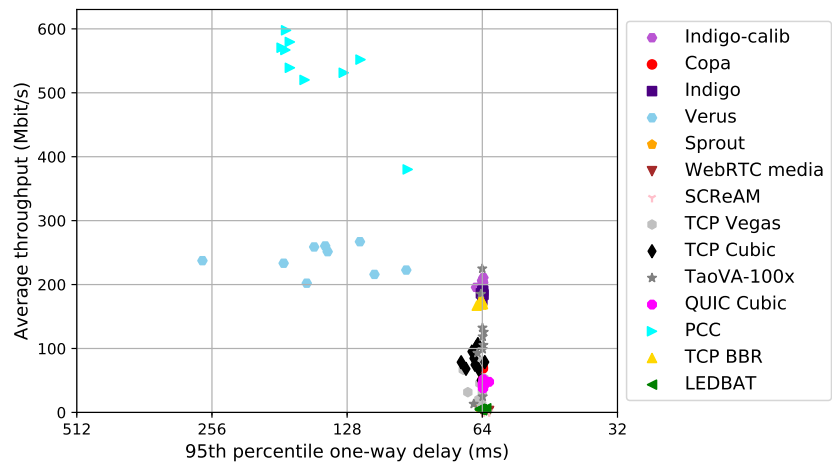
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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 Tokyo Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	171.18	64.47	0.48
TCP Cubic	10	80.75	66.60	0.53
LEDBAT	10	4.90	64.31	0.76
PCC	9	537.49	152.88	1.79
QUIC Cubic	10	44.22	63.50	0.73
SCReAM	10	0.22	63.61	0.41
WebRTC media	10	2.26	63.61	0.47
Sprout	9	6.49	64.50	0.64
TaoVA-100x	10	112.20	64.37	0.83
TCP Vegas	10	49.71	65.60	0.33
Verus	9	238.80	151.71	3.00
Copa	10	61.41	63.85	0.40
Indigo	10	186.30	63.94	0.43
Indigo-calib	10	201.00	64.09	0.45

Run 1: Statistics of TCP BBR

Start at: 2017-11-21 07:53:23

End at: 2017-11-21 07:53:53

Below is generated by plot.py at 2017-11-21 11:24:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.83 Mbit/s

95th percentile per-packet one-way delay: 64.048 ms

Loss rate: 0.45%

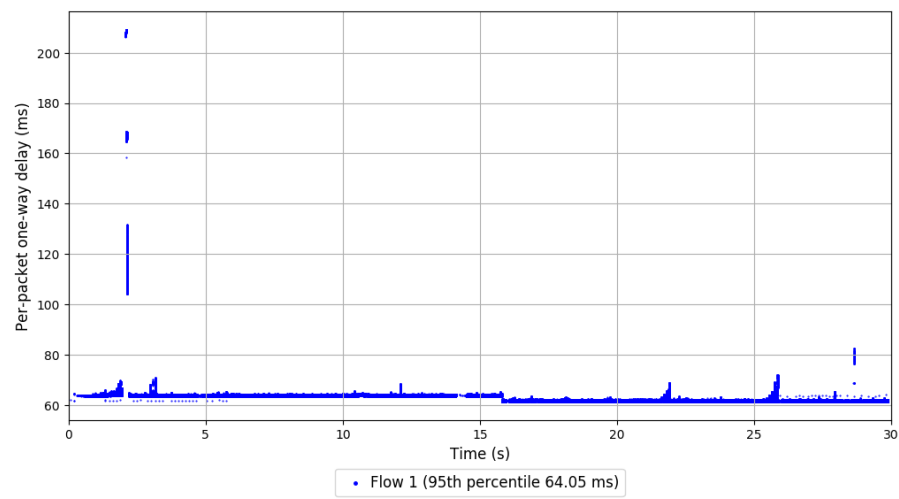
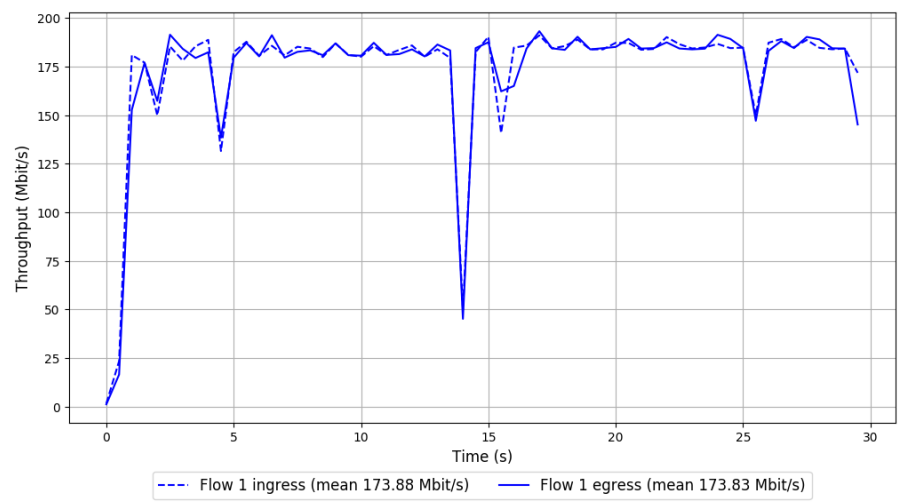
-- Flow 1:

Average throughput: 173.83 Mbit/s

95th percentile per-packet one-way delay: 64.048 ms

Loss rate: 0.45%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 08:03:35

End at: 2017-11-21 08:04:05

Below is generated by plot.py at 2017-11-21 11:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.73 Mbit/s

95th percentile per-packet one-way delay: 64.940 ms

Loss rate: 0.43%

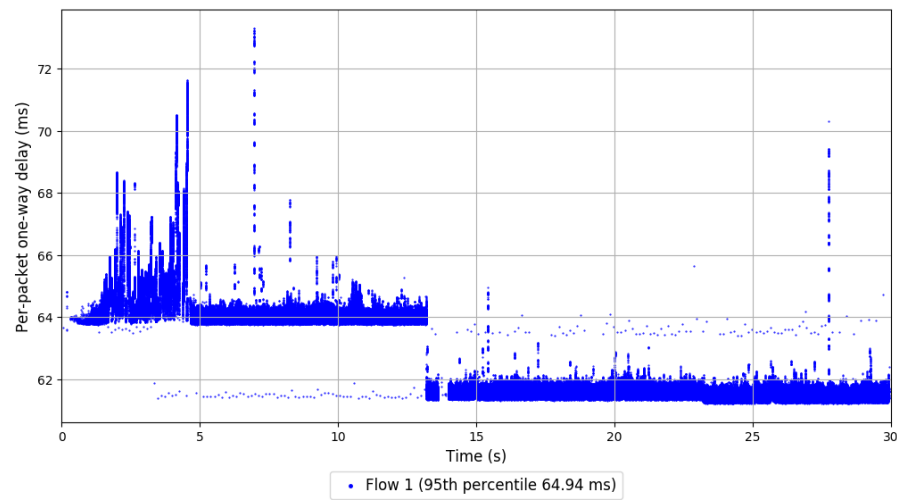
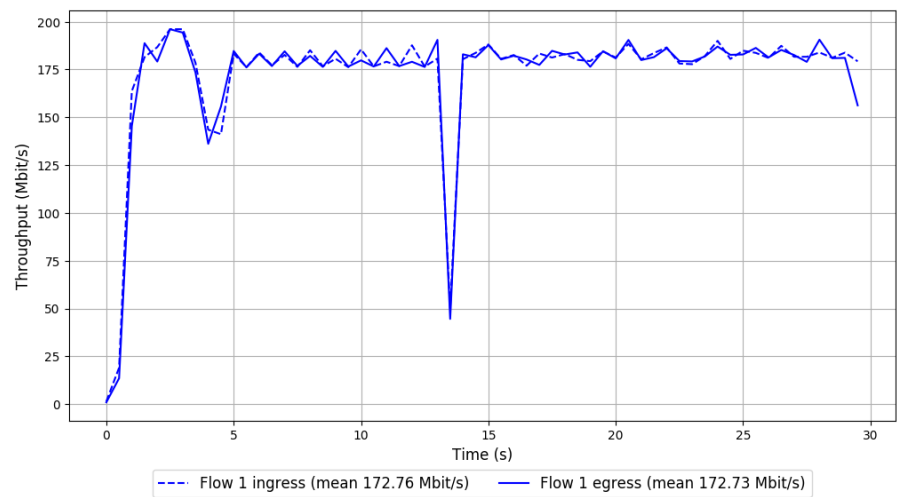
-- Flow 1:

Average throughput: 172.73 Mbit/s

95th percentile per-packet one-way delay: 64.940 ms

Loss rate: 0.43%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 08:14:08

End at: 2017-11-21 08:14:38

Below is generated by plot.py at 2017-11-21 11:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.82 Mbit/s

95th percentile per-packet one-way delay: 64.297 ms

Loss rate: 0.45%

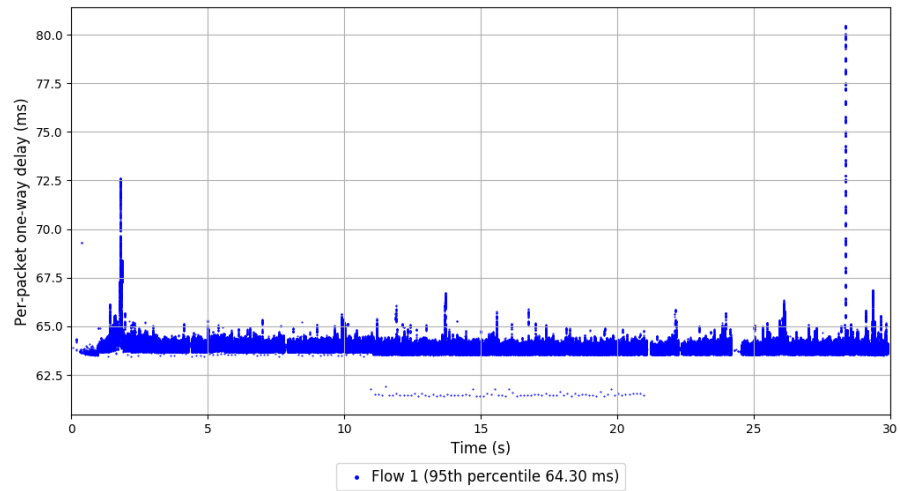
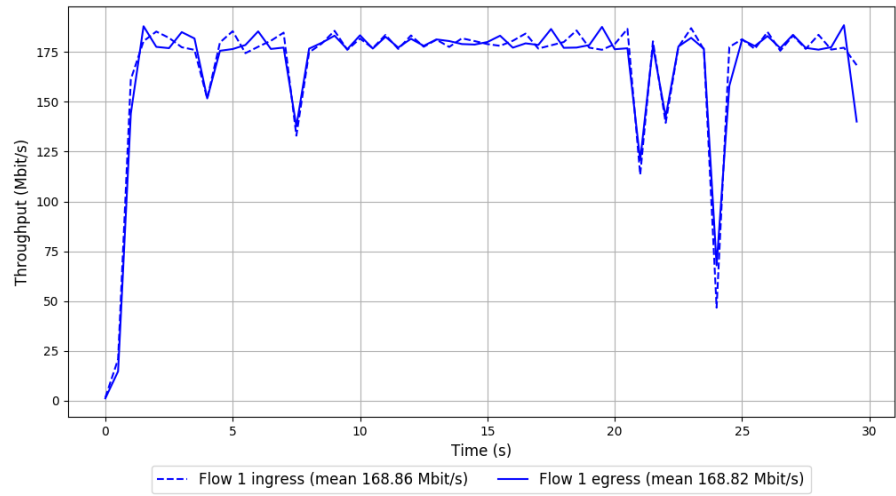
-- Flow 1:

Average throughput: 168.82 Mbit/s

95th percentile per-packet one-way delay: 64.297 ms

Loss rate: 0.45%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-21 08:24:52

End at: 2017-11-21 08:25:22

Below is generated by plot.py at 2017-11-21 11:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.51 Mbit/s

95th percentile per-packet one-way delay: 64.160 ms

Loss rate: 0.45%

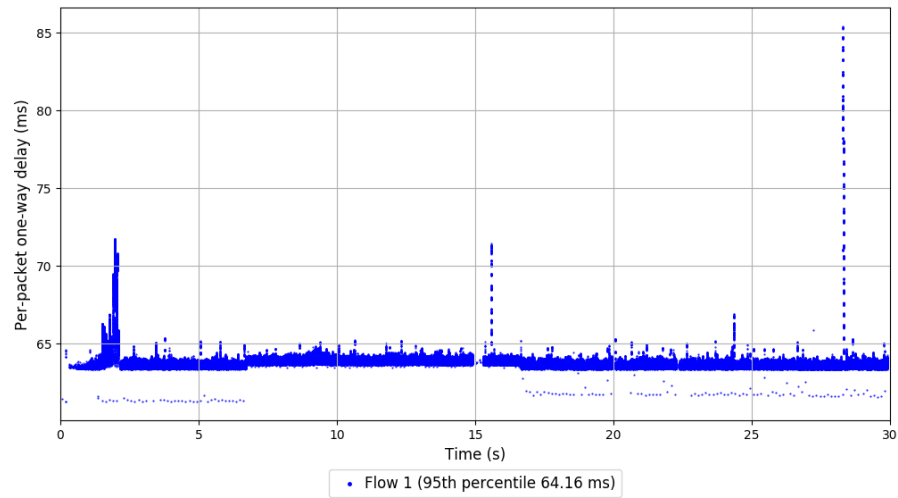
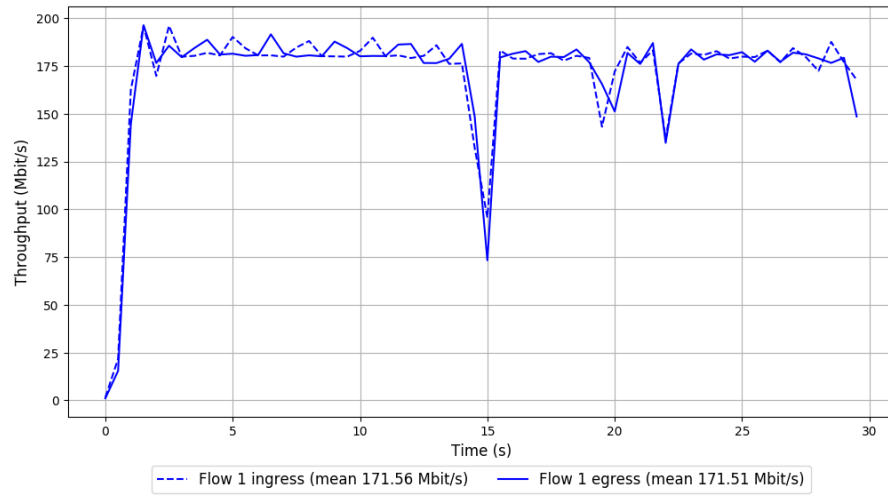
-- Flow 1:

Average throughput: 171.51 Mbit/s

95th percentile per-packet one-way delay: 64.160 ms

Loss rate: 0.45%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 08:35:21

End at: 2017-11-21 08:35:51

Below is generated by plot.py at 2017-11-21 11:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.03 Mbit/s

95th percentile per-packet one-way delay: 65.840 ms

Loss rate: 0.77%

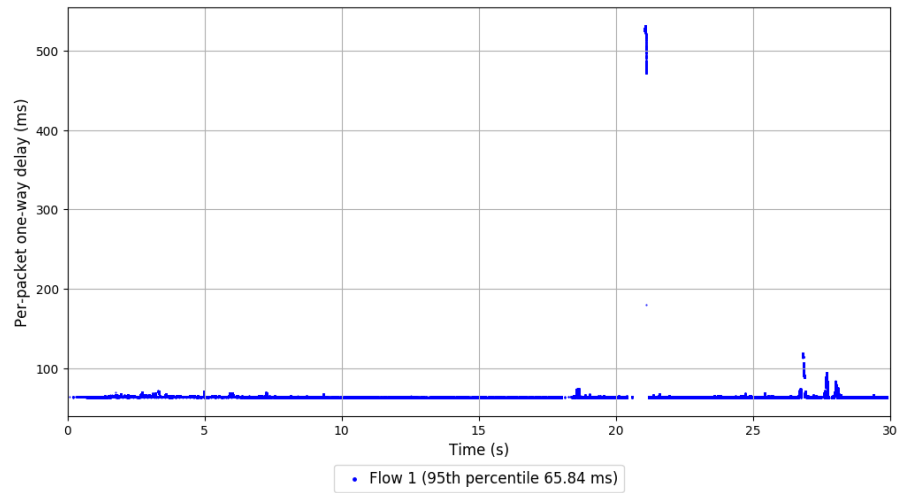
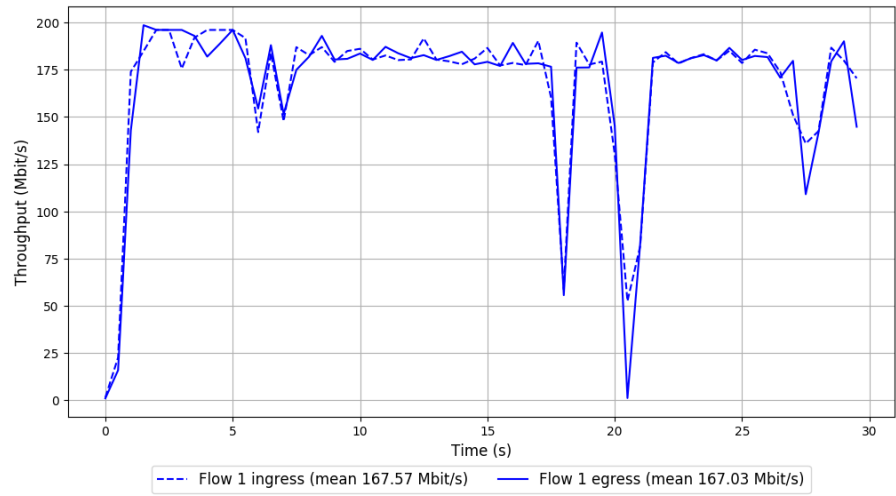
-- Flow 1:

Average throughput: 167.03 Mbit/s

95th percentile per-packet one-way delay: 65.840 ms

Loss rate: 0.77%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 08:46:02

End at: 2017-11-21 08:46:32

Below is generated by plot.py at 2017-11-21 11:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.22 Mbit/s

95th percentile per-packet one-way delay: 64.682 ms

Loss rate: 0.45%

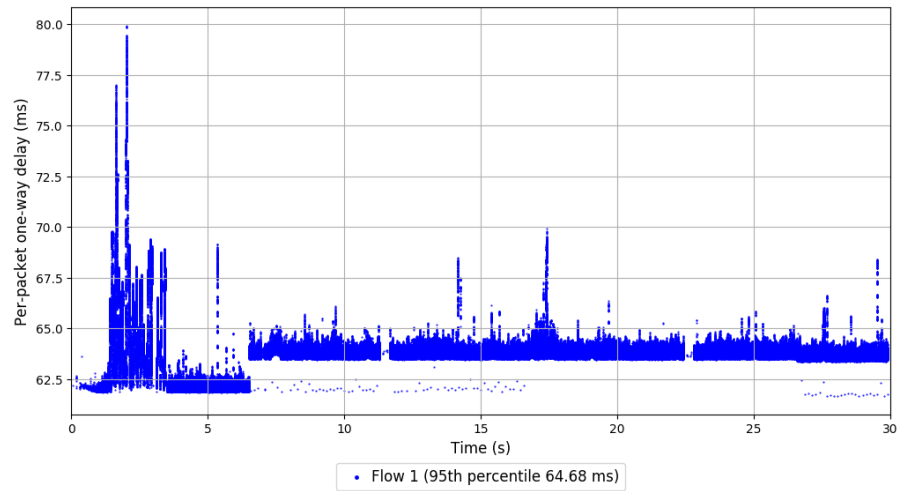
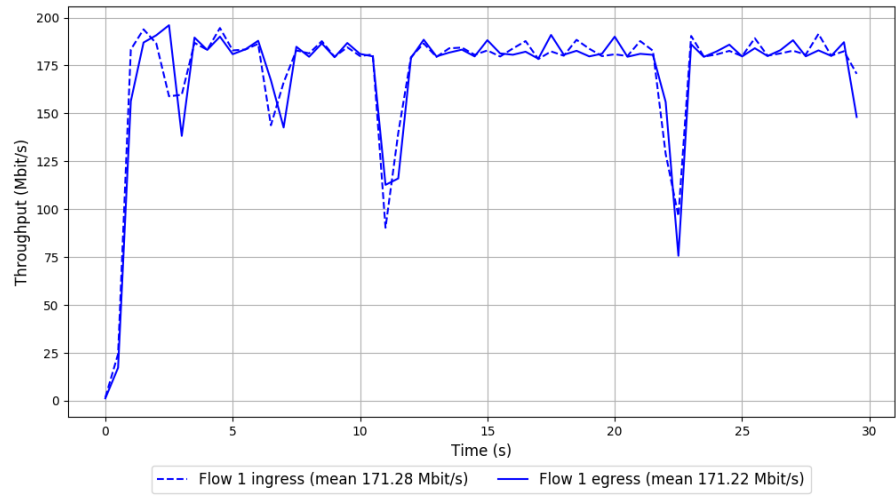
-- Flow 1:

Average throughput: 171.22 Mbit/s

95th percentile per-packet one-way delay: 64.682 ms

Loss rate: 0.45%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-21 08:56:35

End at: 2017-11-21 08:57:05

Below is generated by plot.py at 2017-11-21 11:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.81 Mbit/s

95th percentile per-packet one-way delay: 64.252 ms

Loss rate: 0.46%

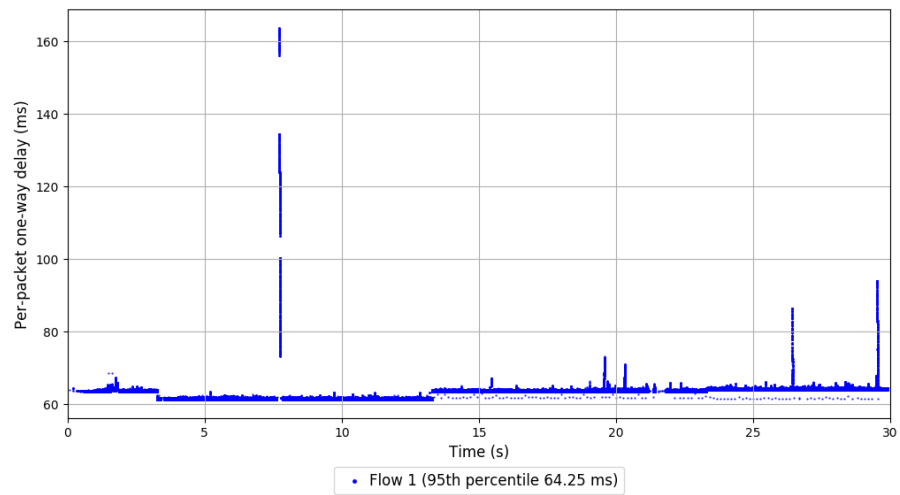
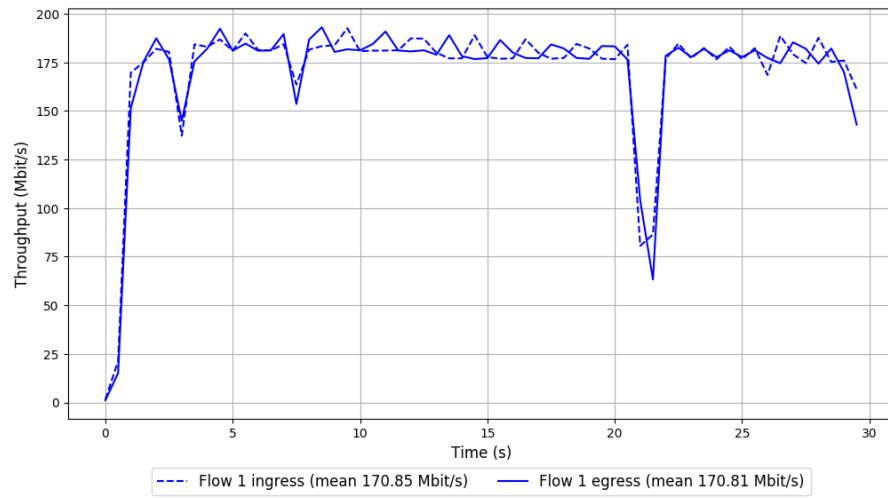
-- Flow 1:

Average throughput: 170.81 Mbit/s

95th percentile per-packet one-way delay: 64.252 ms

Loss rate: 0.46%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-21 09:07:06

End at: 2017-11-21 09:07:36

Below is generated by plot.py at 2017-11-21 11:24:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.88 Mbit/s

95th percentile per-packet one-way delay: 63.993 ms

Loss rate: 0.45%

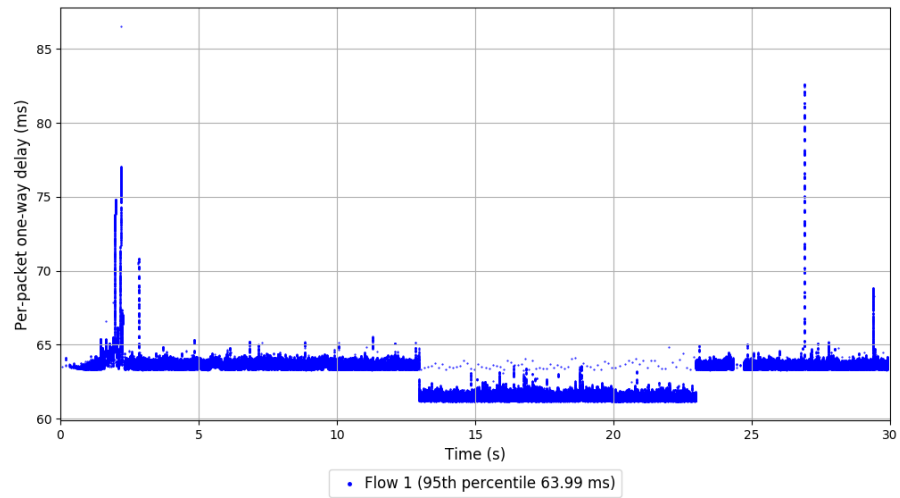
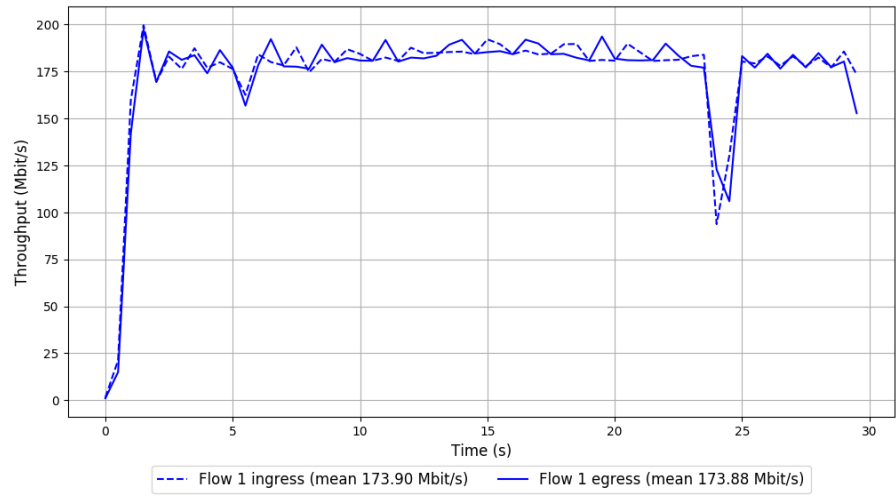
-- Flow 1:

Average throughput: 173.88 Mbit/s

95th percentile per-packet one-way delay: 63.993 ms

Loss rate: 0.45%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-21 09:17:35

End at: 2017-11-21 09:18:05

Below is generated by plot.py at 2017-11-21 11:27:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.54 Mbit/s

95th percentile per-packet one-way delay: 64.722 ms

Loss rate: 0.46%

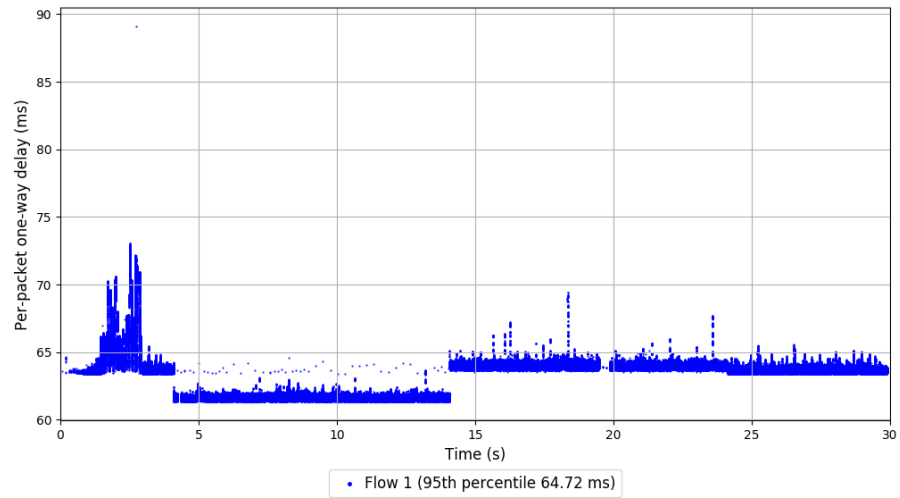
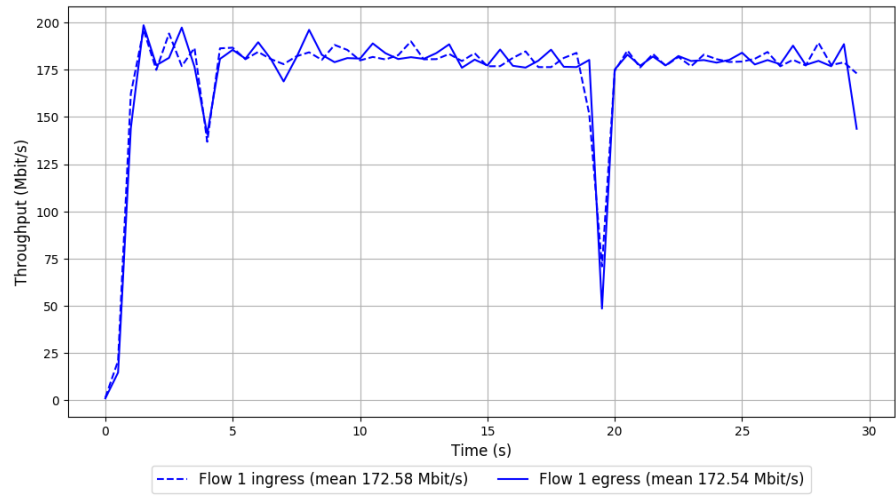
-- Flow 1:

Average throughput: 172.54 Mbit/s

95th percentile per-packet one-way delay: 64.722 ms

Loss rate: 0.46%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 09:27:54

End at: 2017-11-21 09:28:24

Below is generated by plot.py at 2017-11-21 11:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.41 Mbit/s

95th percentile per-packet one-way delay: 63.801 ms

Loss rate: 0.46%

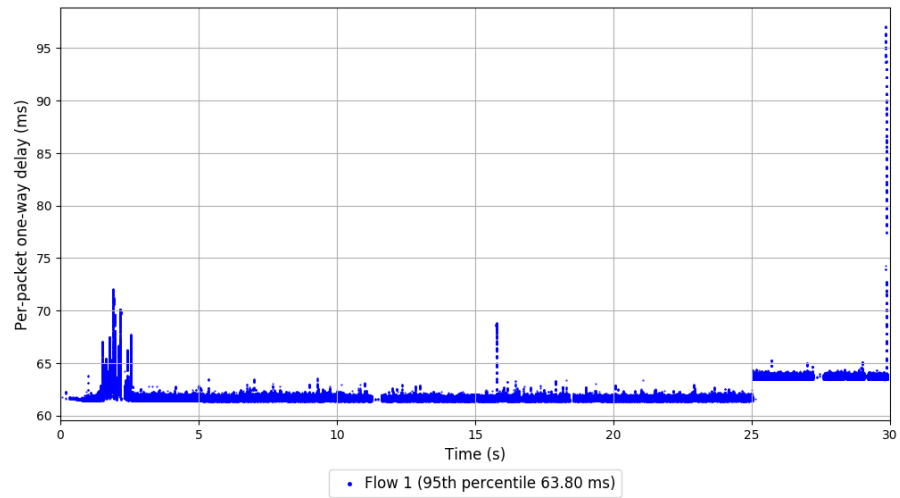
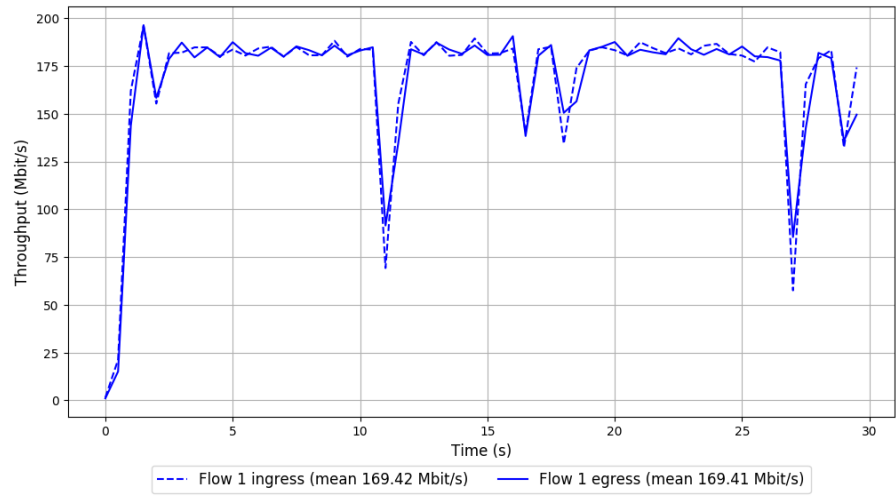
-- Flow 1:

Average throughput: 169.41 Mbit/s

95th percentile per-packet one-way delay: 63.801 ms

Loss rate: 0.46%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 07:50:32

End at: 2017-11-21 07:51:02

Below is generated by plot.py at 2017-11-21 11:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 64.400 ms

Loss rate: 0.79%

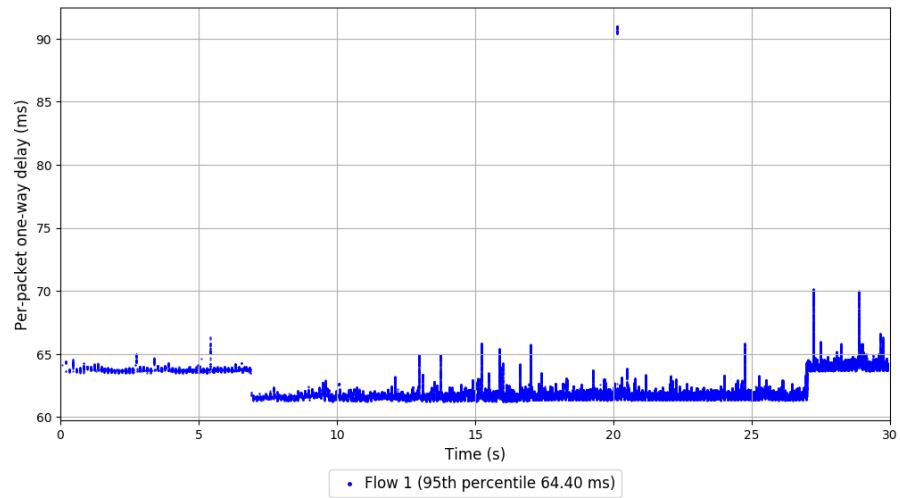
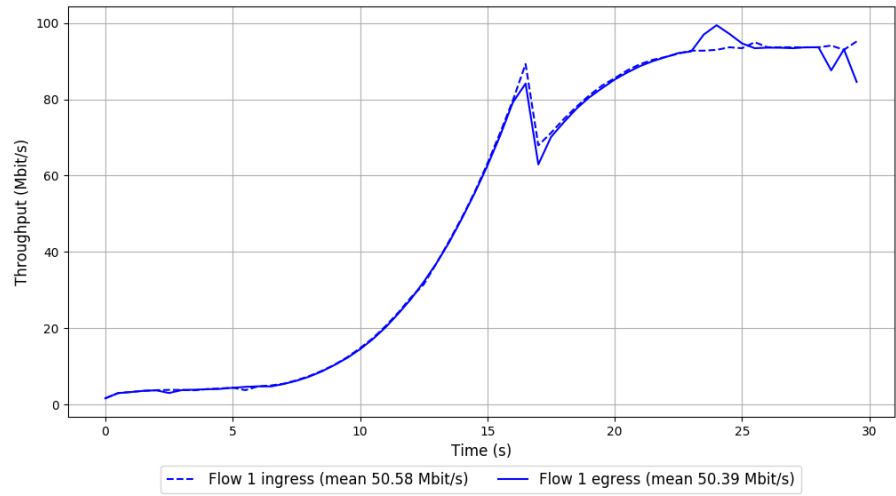
-- Flow 1:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 64.400 ms

Loss rate: 0.79%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 08:00:37

End at: 2017-11-21 08:01:07

Below is generated by plot.py at 2017-11-21 11:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.18 Mbit/s

95th percentile per-packet one-way delay: 69.585 ms

Loss rate: 0.35%

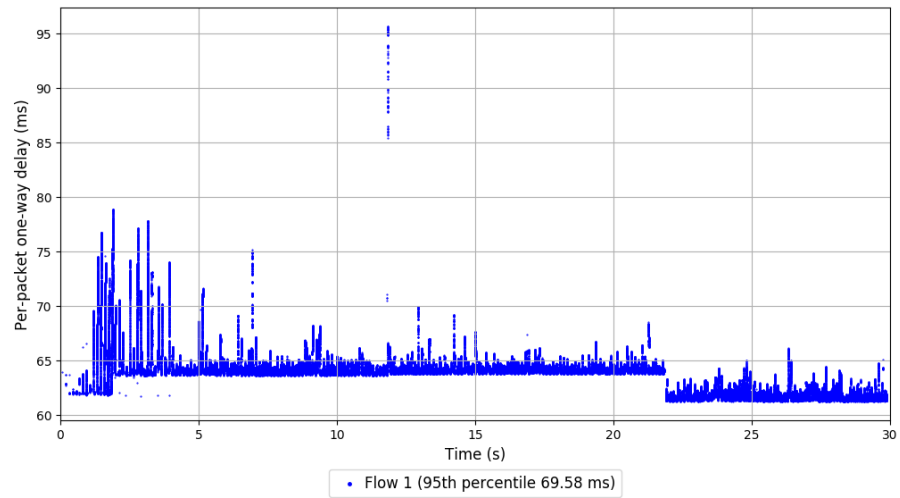
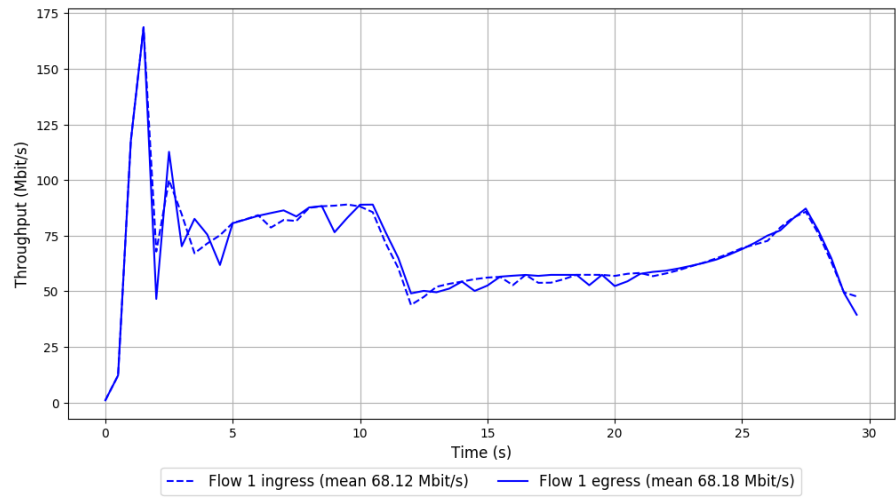
-- Flow 1:

Average throughput: 68.18 Mbit/s

95th percentile per-packet one-way delay: 69.585 ms

Loss rate: 0.35%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

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

End at: 2017-11-21 08:11:42

Below is generated by plot.py at 2017-11-21 11:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 71.338 ms

Loss rate: 0.27%

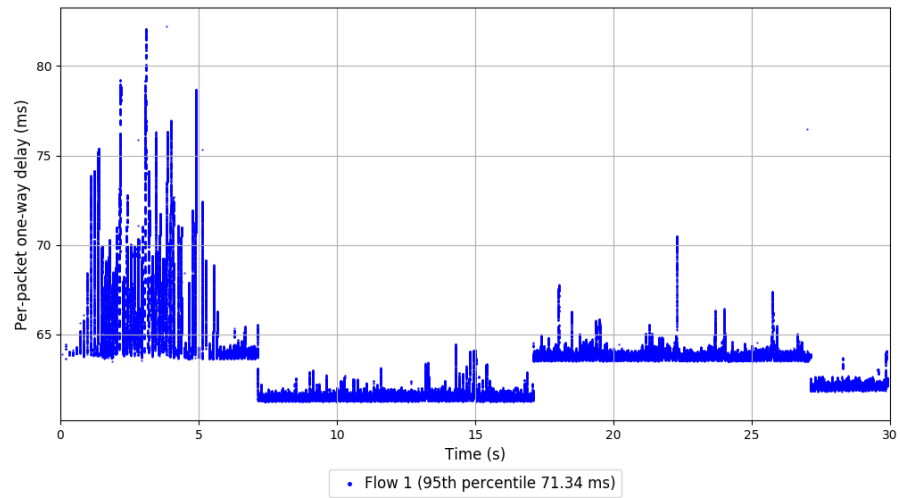
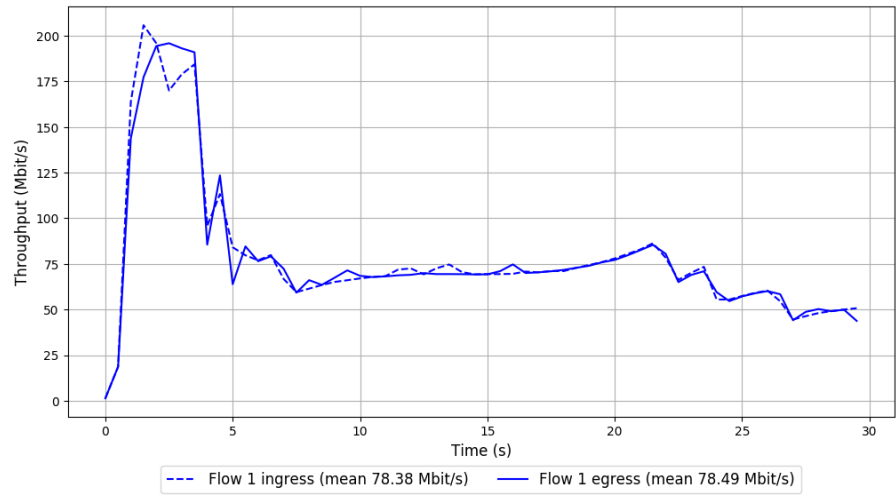
-- Flow 1:

Average throughput: 78.49 Mbit/s

95th percentile per-packet one-way delay: 71.338 ms

Loss rate: 0.27%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 08:21:57

End at: 2017-11-21 08:22:27

Below is generated by plot.py at 2017-11-21 11:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 67.511 ms

Loss rate: 0.37%

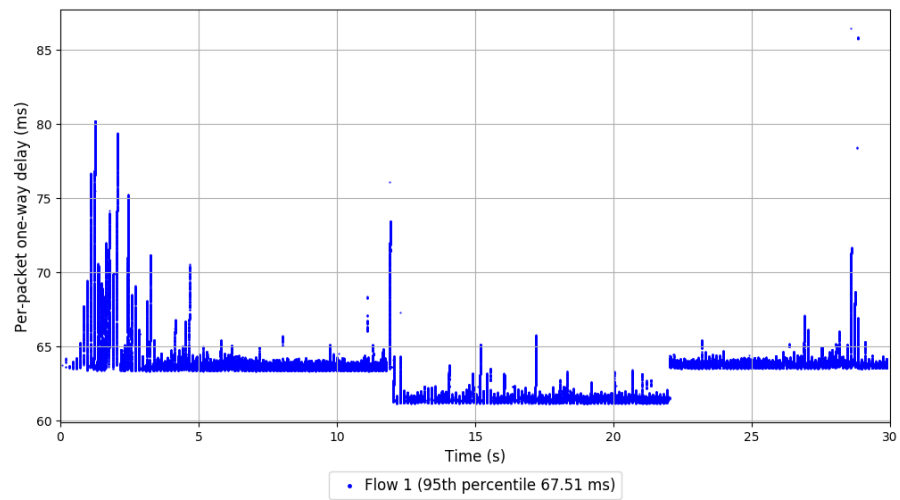
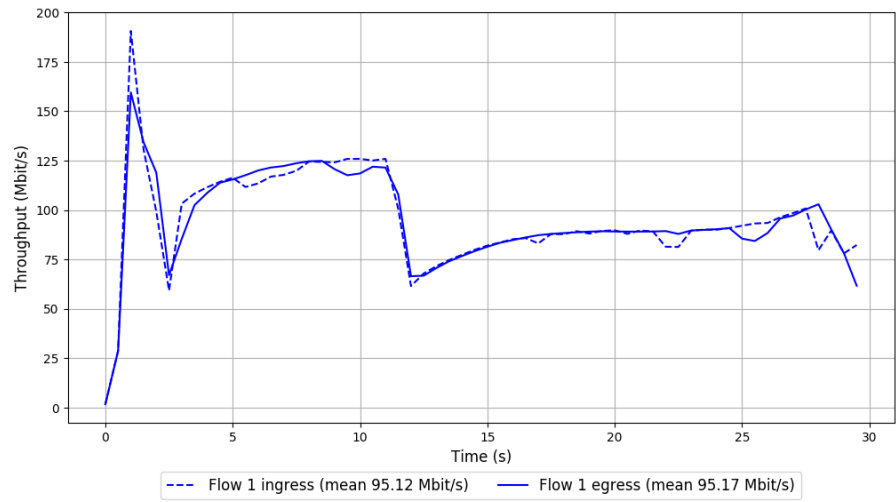
-- Flow 1:

Average throughput: 95.17 Mbit/s

95th percentile per-packet one-way delay: 67.511 ms

Loss rate: 0.37%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 08:32:25

End at: 2017-11-21 08:32:55

Below is generated by plot.py at 2017-11-21 11:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.54 Mbit/s

95th percentile per-packet one-way delay: 66.830 ms

Loss rate: 0.54%

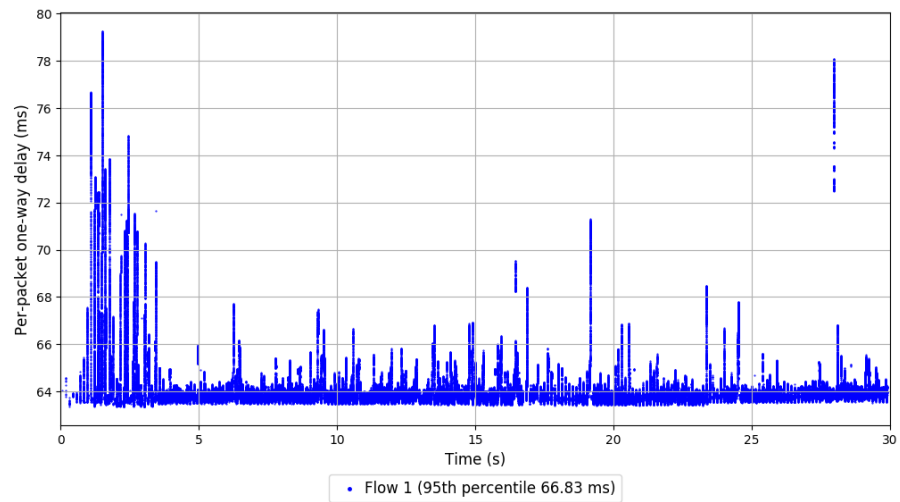
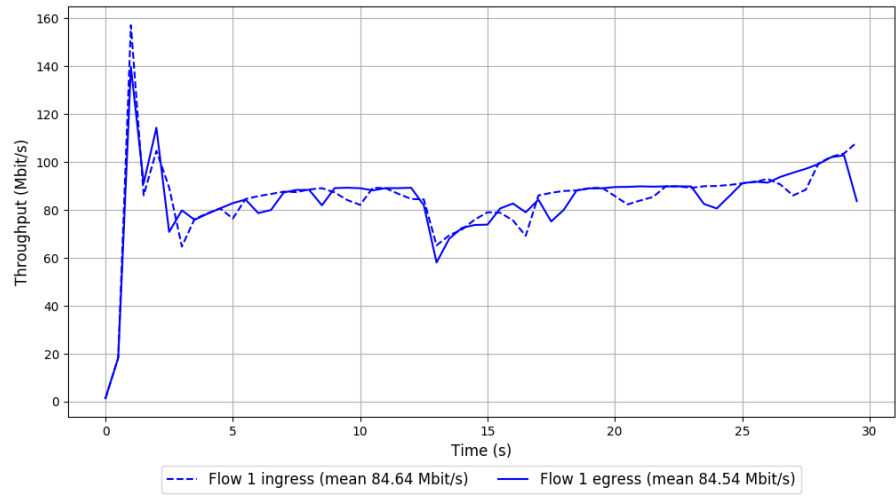
-- Flow 1:

Average throughput: 84.54 Mbit/s

95th percentile per-packet one-way delay: 66.830 ms

Loss rate: 0.54%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 08:43:04

End at: 2017-11-21 08:43:34

Below is generated by plot.py at 2017-11-21 11:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 63.194 ms

Loss rate: 0.43%

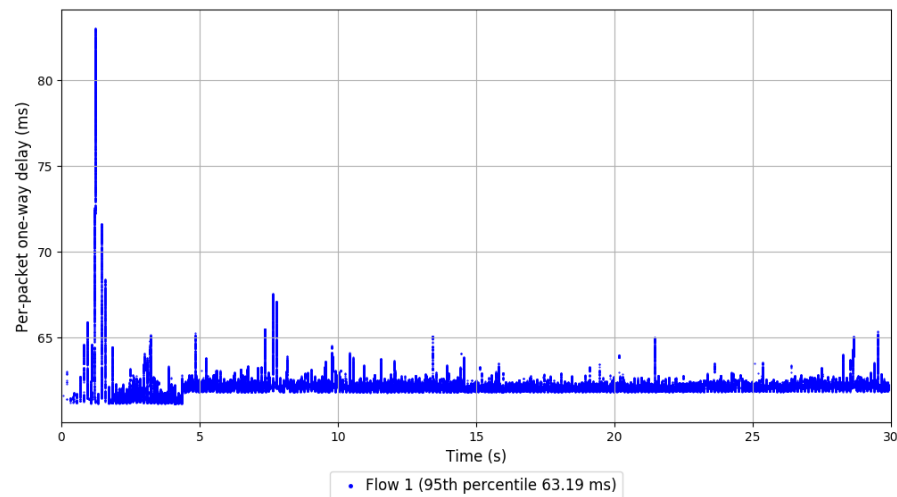
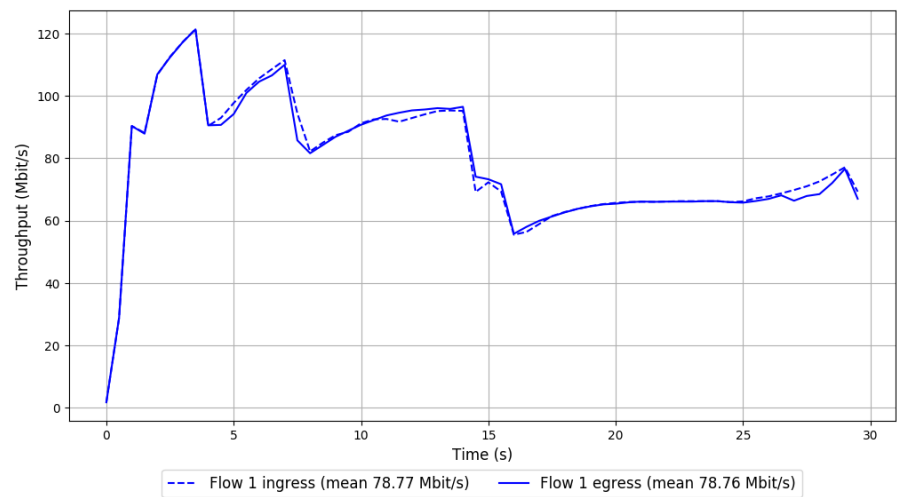
-- Flow 1:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 63.194 ms

Loss rate: 0.43%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 08:53:38

End at: 2017-11-21 08:54:08

Below is generated by plot.py at 2017-11-21 11:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.75 Mbit/s

95th percentile per-packet one-way delay: 65.944 ms

Loss rate: 0.48%

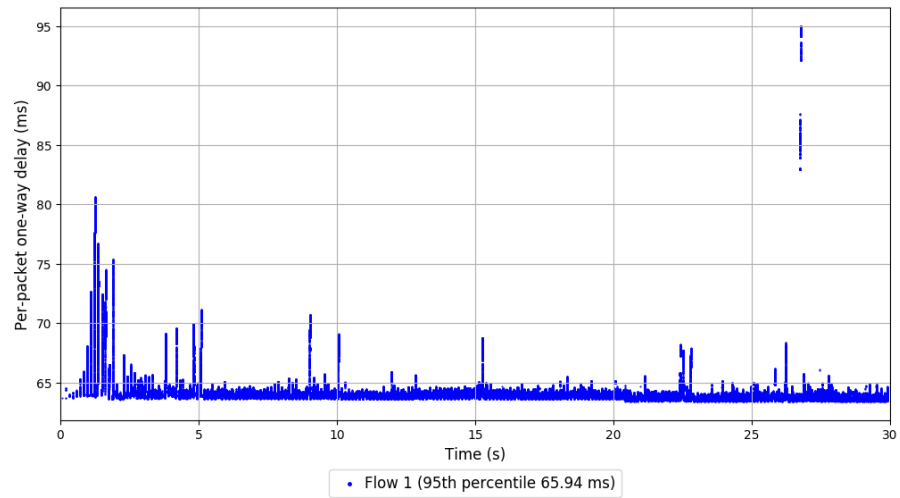
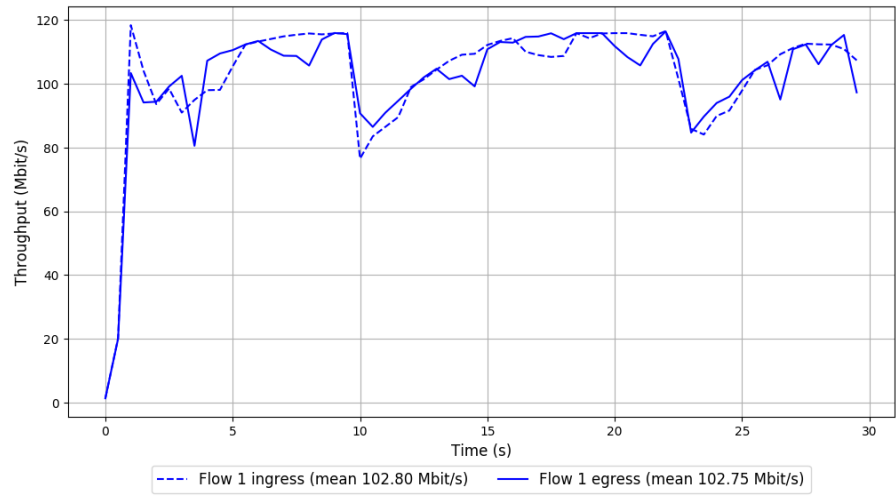
-- Flow 1:

Average throughput: 102.75 Mbit/s

95th percentile per-packet one-way delay: 65.944 ms

Loss rate: 0.48%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

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

End at: 2017-11-21 09:04:39

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.94 Mbit/s

95th percentile per-packet one-way delay: 65.466 ms

Loss rate: 0.34%

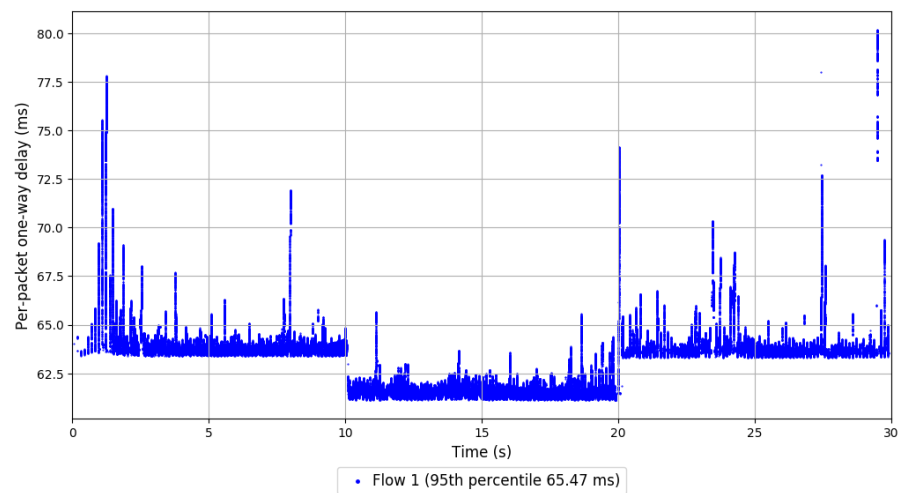
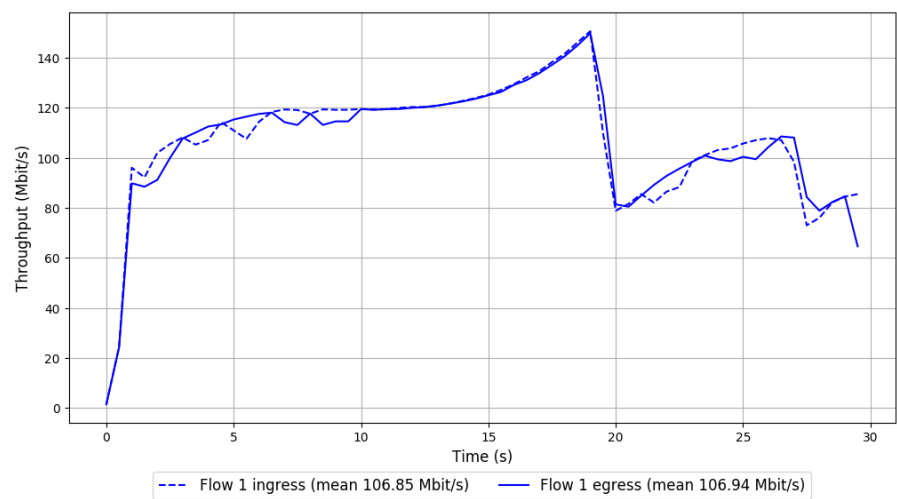
-- Flow 1:

Average throughput: 106.94 Mbit/s

95th percentile per-packet one-way delay: 65.466 ms

Loss rate: 0.34%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 09:14:36

End at: 2017-11-21 09:15:06

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.48 Mbit/s

95th percentile per-packet one-way delay: 66.465 ms

Loss rate: 0.72%

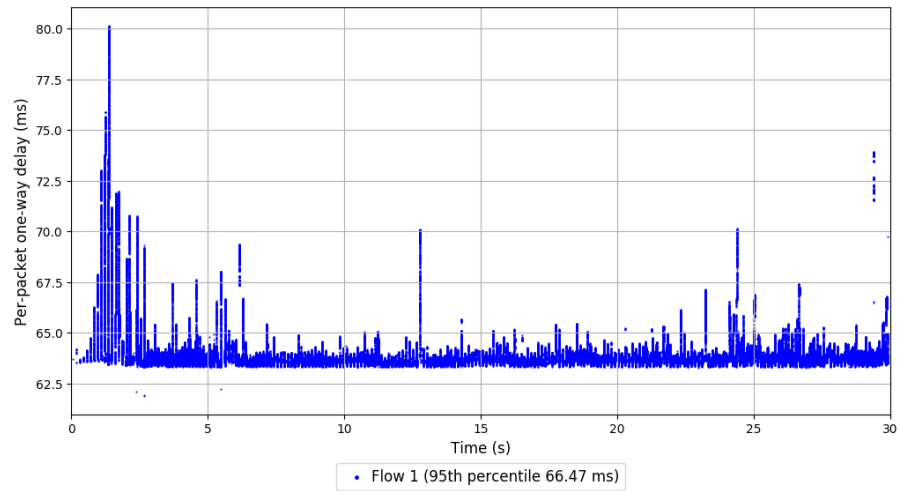
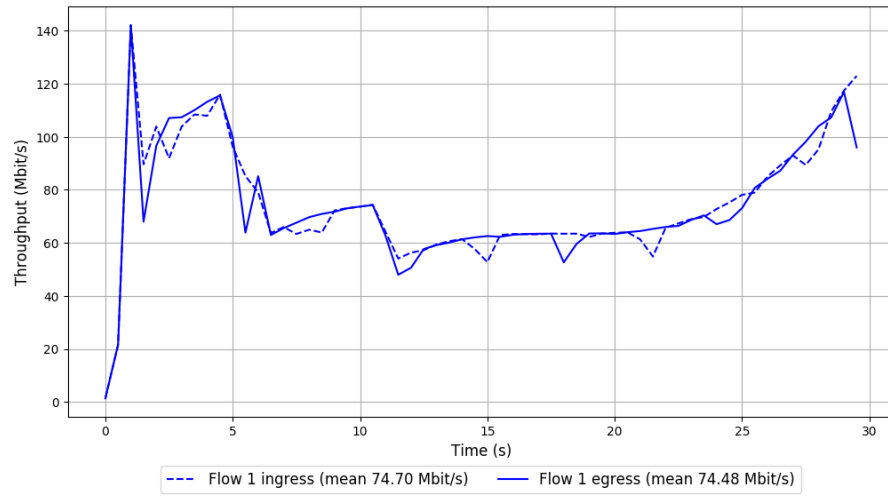
-- Flow 1:

Average throughput: 74.48 Mbit/s

95th percentile per-packet one-way delay: 66.465 ms

Loss rate: 0.72%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 09:24:59

End at: 2017-11-21 09:25:29

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 65.255 ms

Loss rate: 1.05%

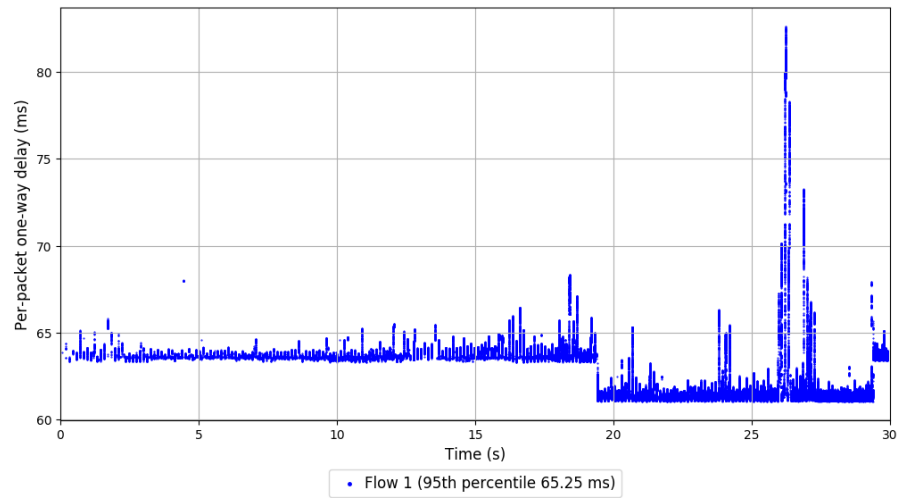
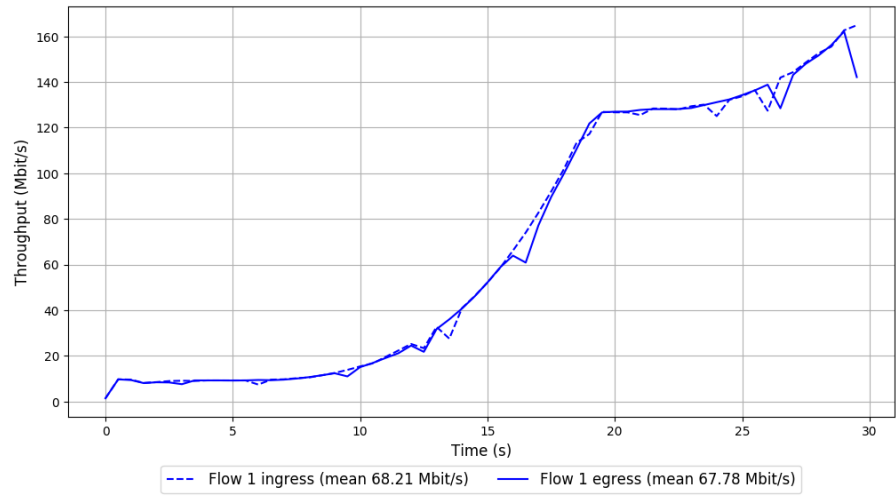
-- Flow 1:

Average throughput: 67.78 Mbit/s

95th percentile per-packet one-way delay: 65.255 ms

Loss rate: 1.05%

Run 10: Report of TCP Cubic — Data Link

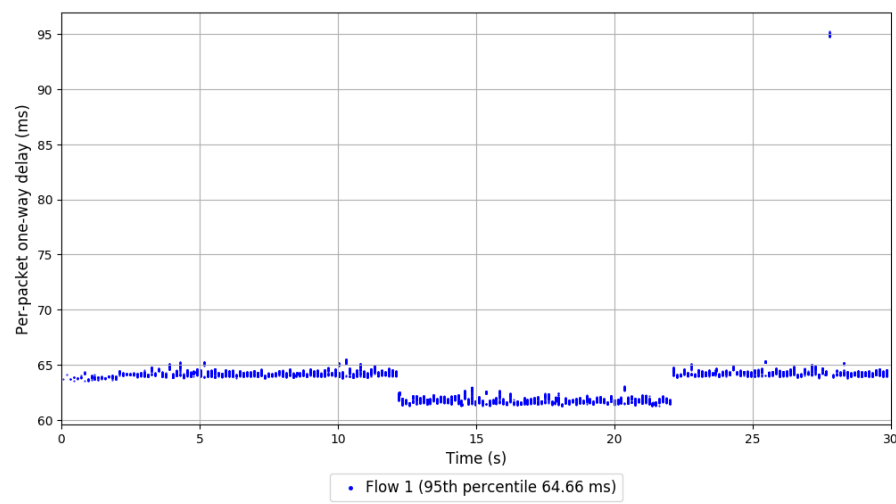
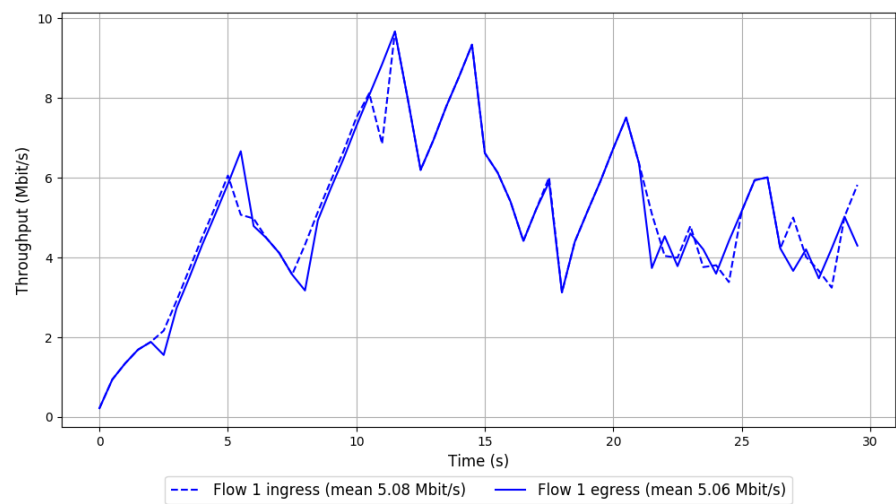


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-21 07:56:17
End at: 2017-11-21 07:56:47

# Below is generated by plot.py at 2017-11-21 11:27:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 64.655 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 64.655 ms
Loss rate: 0.72%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-21 08:06:28

End at: 2017-11-21 08:06:58

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 62.730 ms

Loss rate: 0.85%

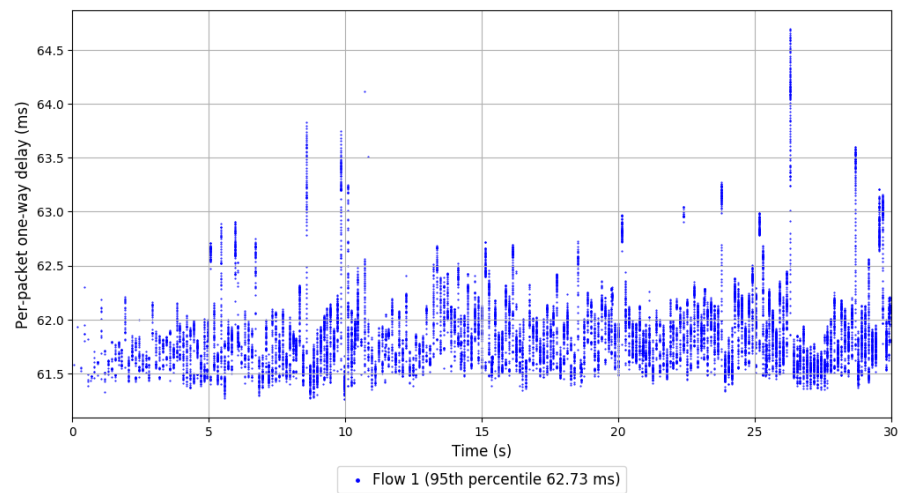
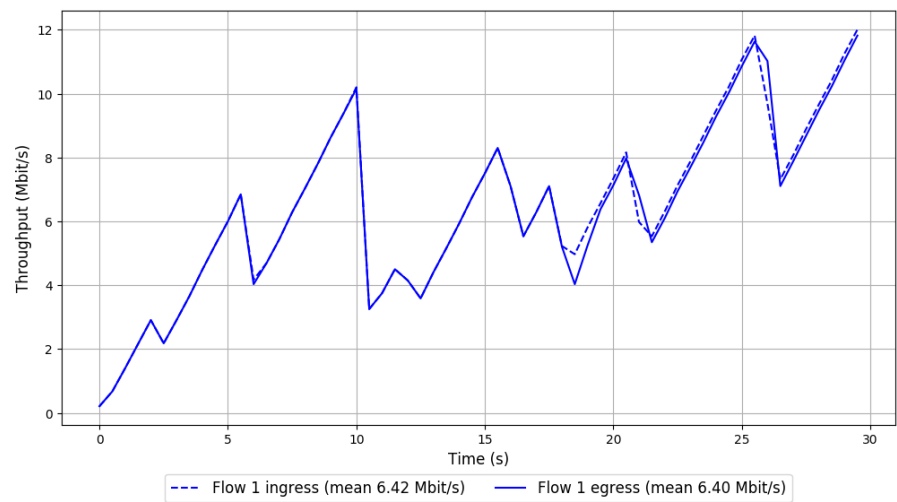
-- Flow 1:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 62.730 ms

Loss rate: 0.85%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-11-21 08:17:03

End at: 2017-11-21 08:17:33

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 64.482 ms

Loss rate: 0.81%

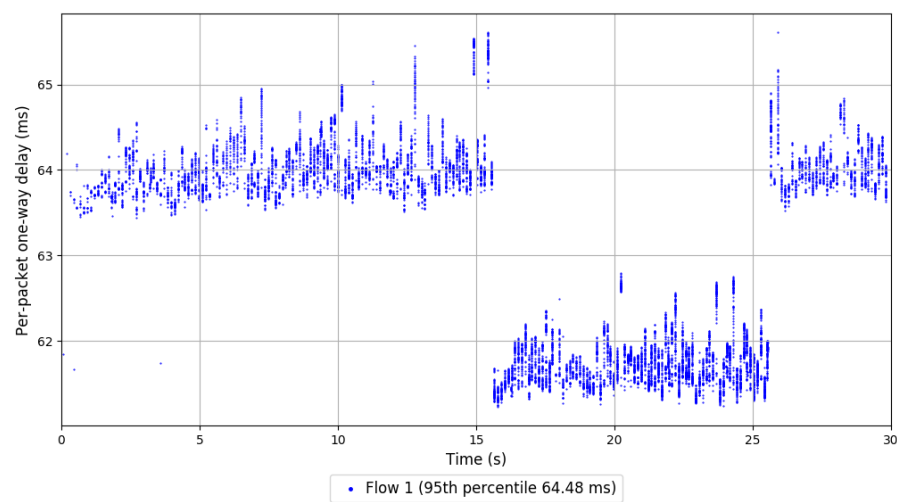
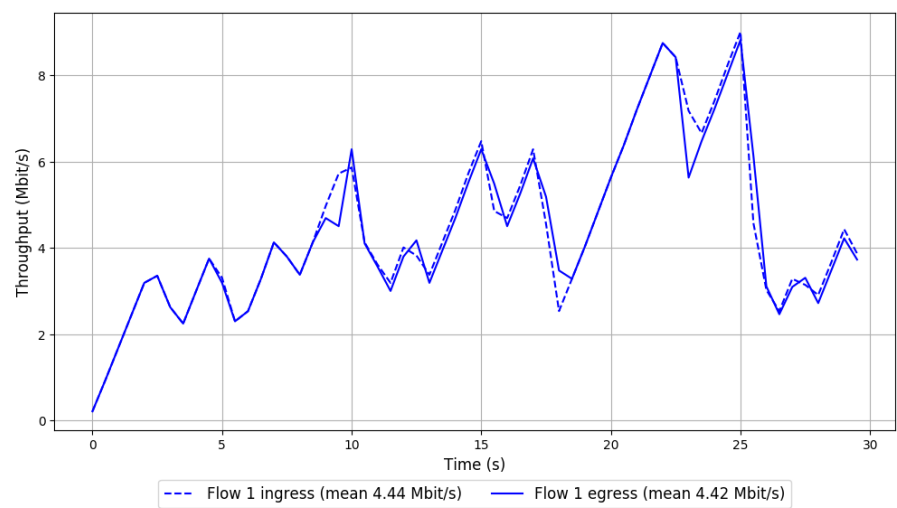
-- Flow 1:

Average throughput: 4.42 Mbit/s

95th percentile per-packet one-way delay: 64.482 ms

Loss rate: 0.81%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-21 08:27:45

End at: 2017-11-21 08:28:15

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 64.808 ms

Loss rate: 1.45%

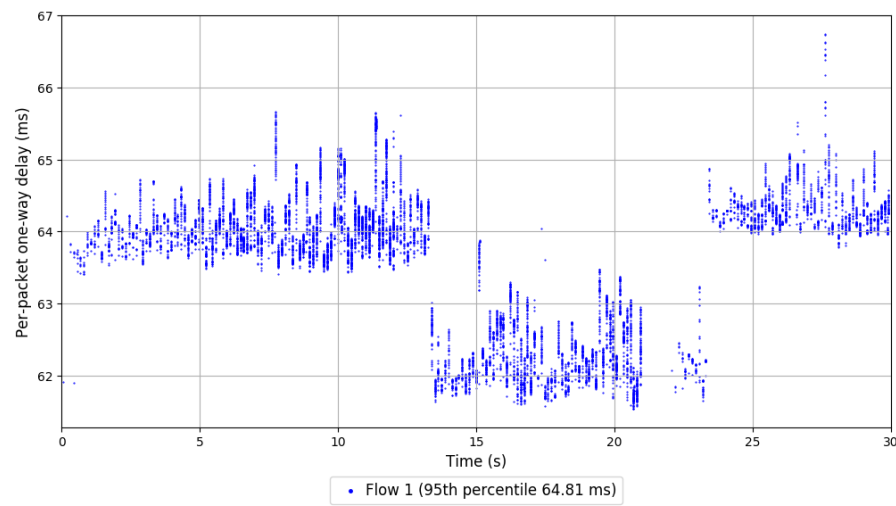
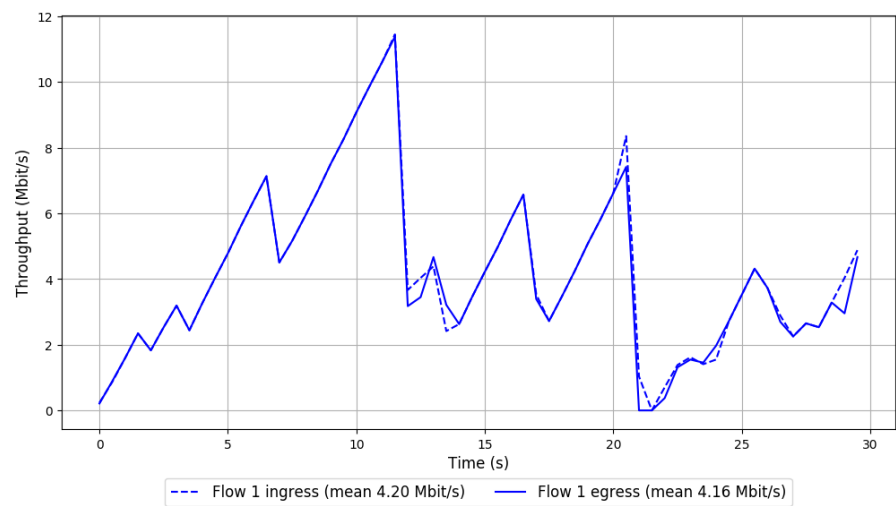
-- Flow 1:

Average throughput: 4.16 Mbit/s

95th percentile per-packet one-way delay: 64.808 ms

Loss rate: 1.45%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-21 08:38:16

End at: 2017-11-21 08:38:46

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 64.310 ms

Loss rate: 0.61%

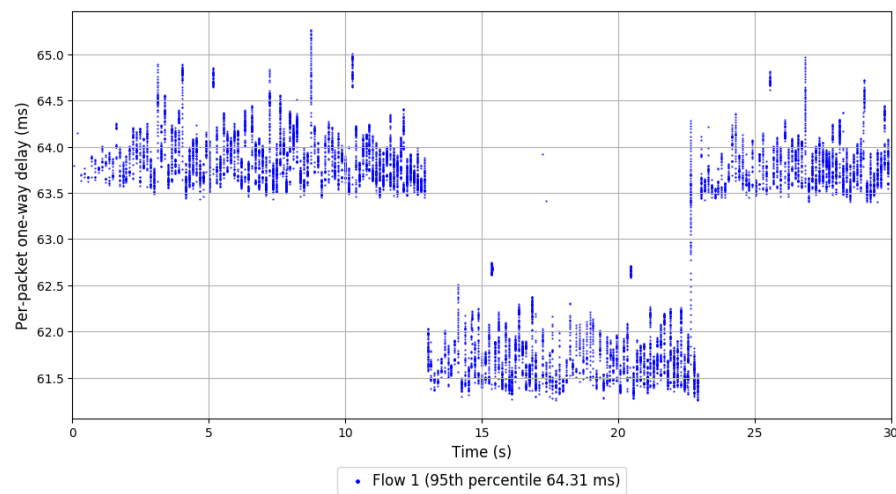
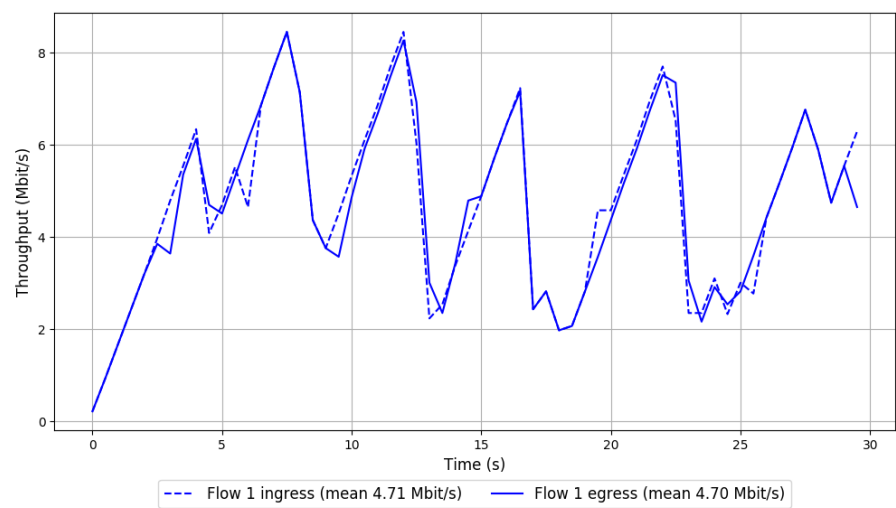
-- Flow 1:

Average throughput: 4.70 Mbit/s

95th percentile per-packet one-way delay: 64.310 ms

Loss rate: 0.61%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-21 08:48:57

End at: 2017-11-21 08:49:27

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 64.219 ms

Loss rate: 0.49%

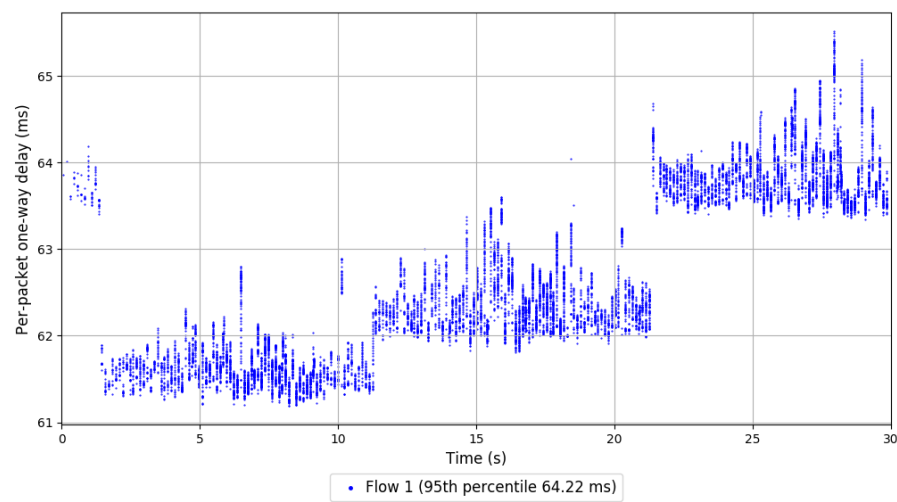
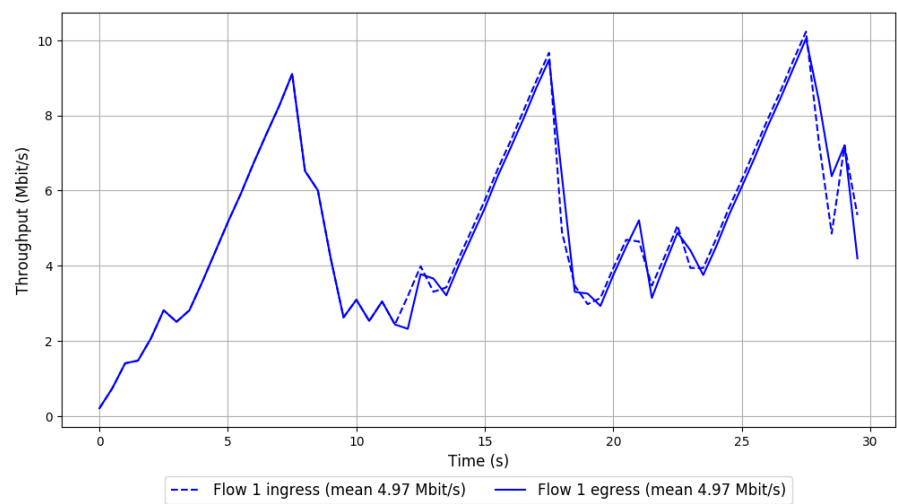
-- Flow 1:

Average throughput: 4.97 Mbit/s

95th percentile per-packet one-way delay: 64.219 ms

Loss rate: 0.49%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-21 08:59:30

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

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 64.274 ms

Loss rate: 0.54%

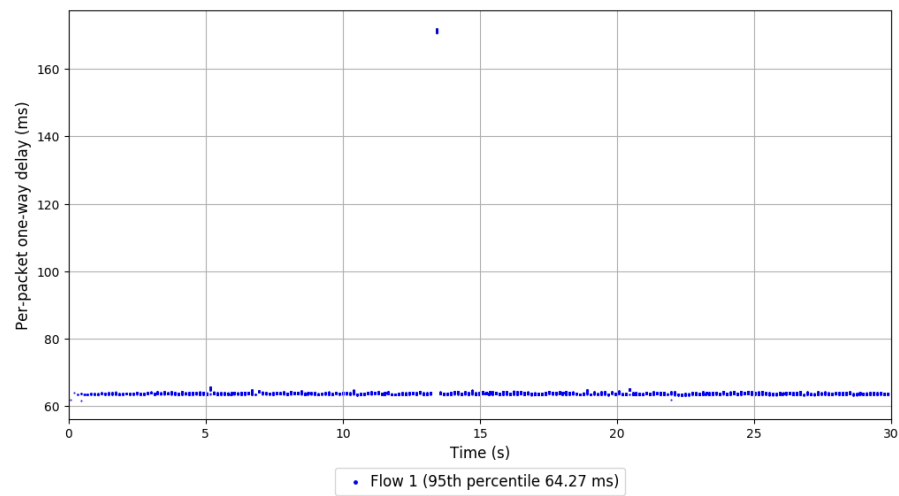
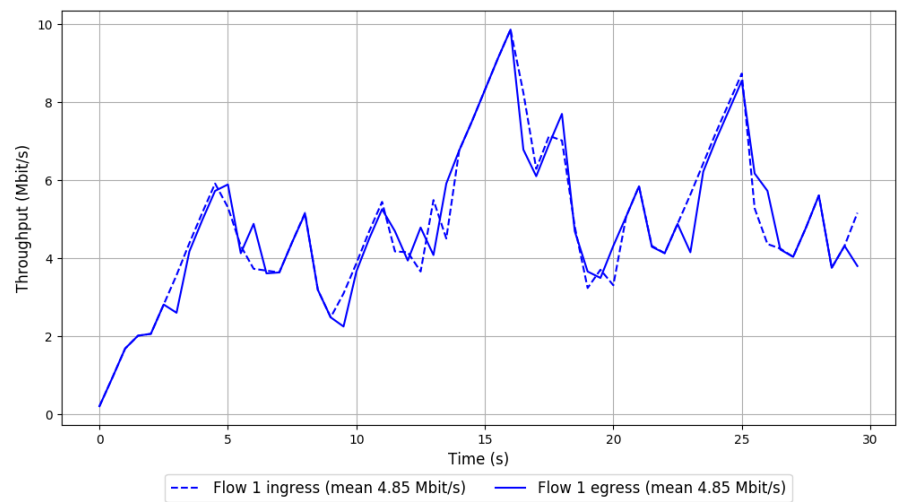
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 64.274 ms

Loss rate: 0.54%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

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

End at: 2017-11-21 09:10:29

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 64.650 ms

Loss rate: 0.48%

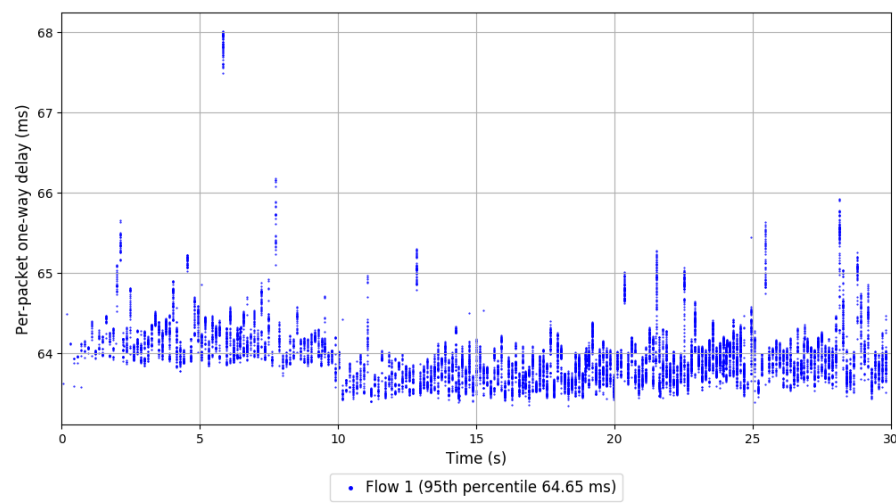
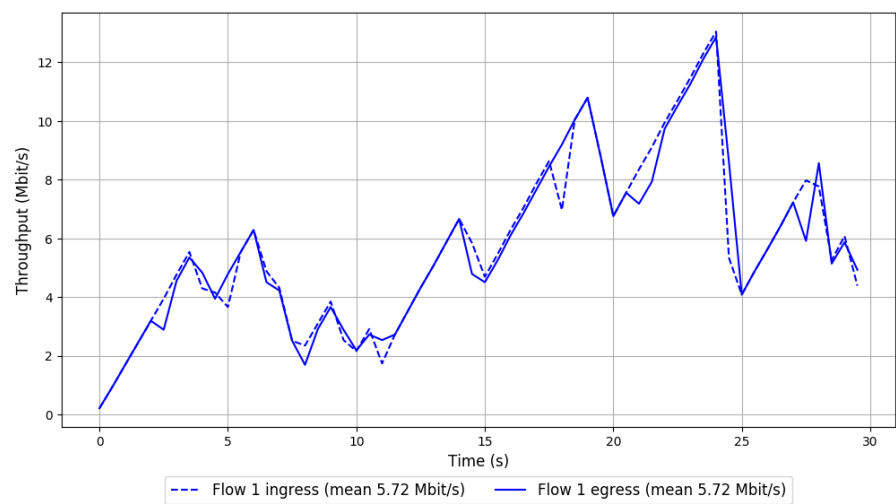
-- Flow 1:

Average throughput: 5.72 Mbit/s

95th percentile per-packet one-way delay: 64.650 ms

Loss rate: 0.48%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-21 09:20:28

End at: 2017-11-21 09:20:58

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 0.94%

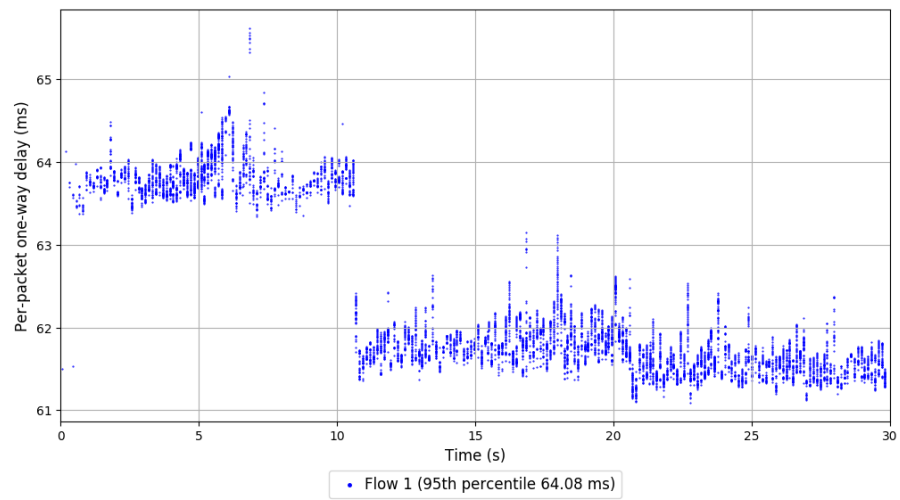
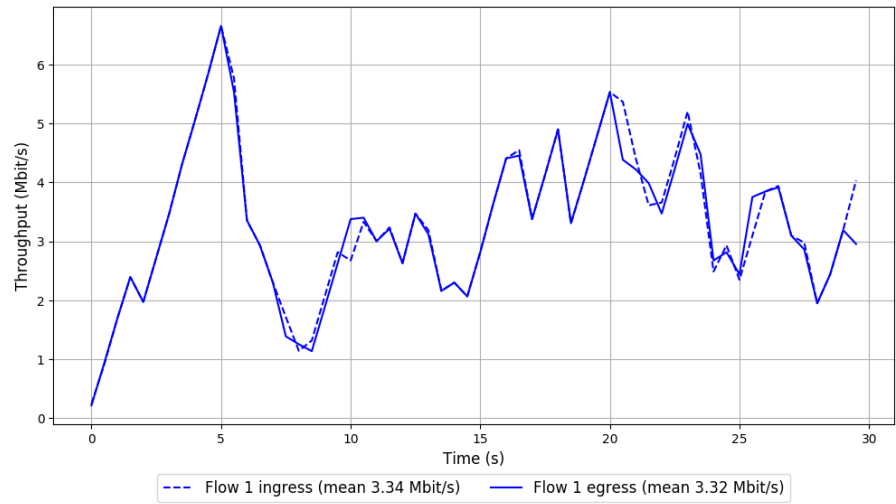
-- Flow 1:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 64.078 ms

Loss rate: 0.94%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-21 09:30:47

End at: 2017-11-21 09:31:17

Below is generated by plot.py at 2017-11-21 11:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 64.901 ms

Loss rate: 0.72%

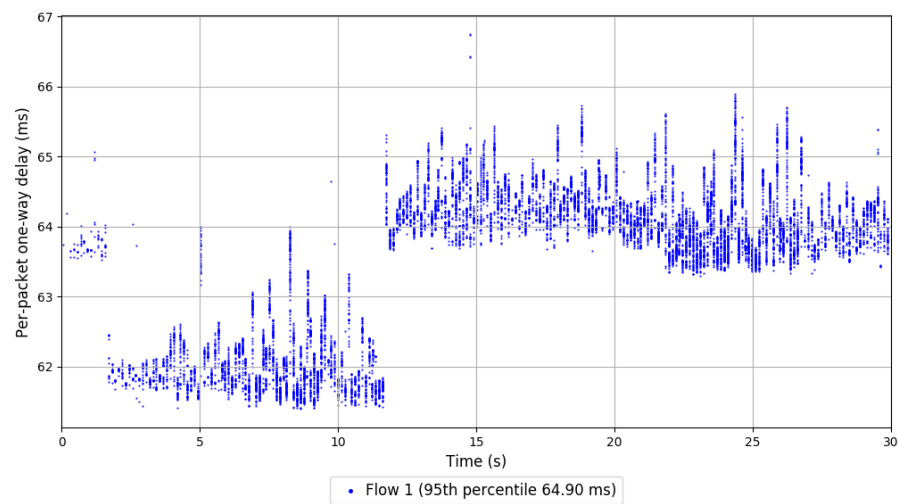
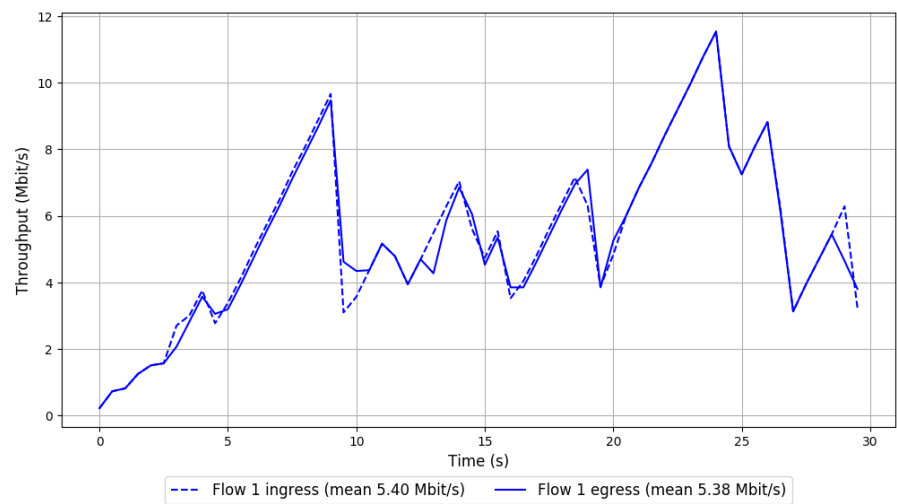
-- Flow 1:

Average throughput: 5.38 Mbit/s

95th percentile per-packet one-way delay: 64.901 ms

Loss rate: 0.72%

Run 10: Report of LEDBAT — Data Link

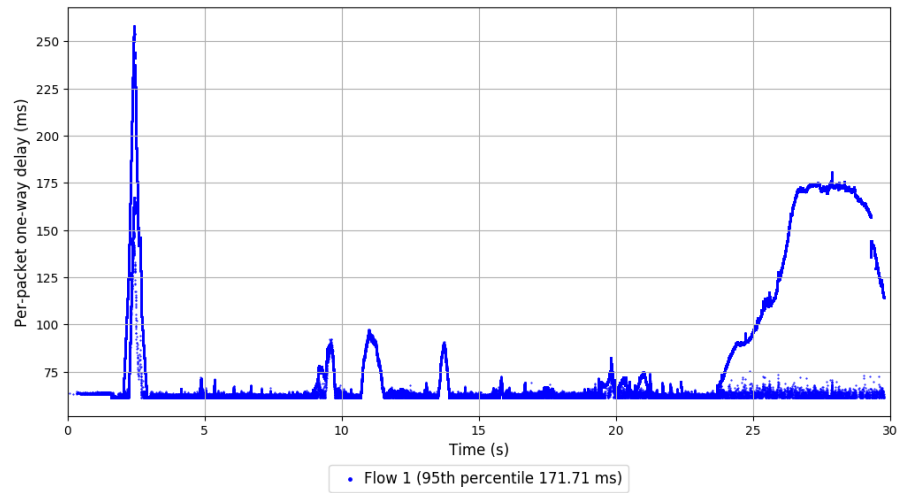
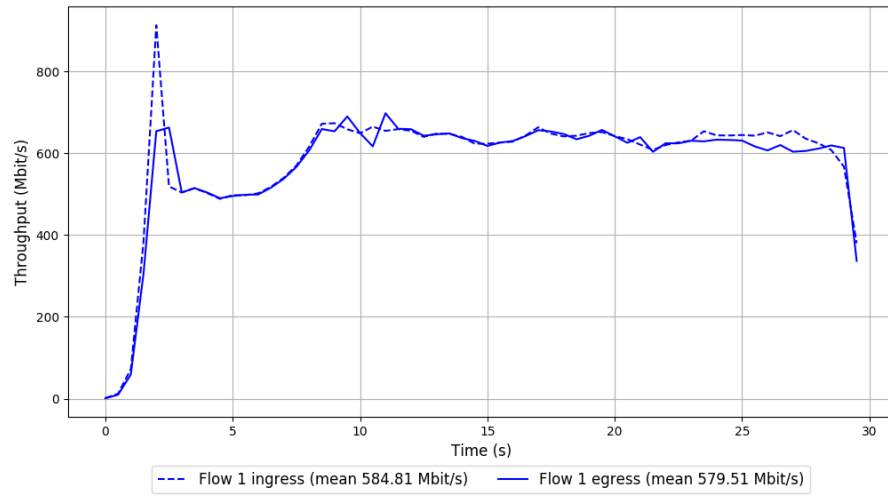


```
Run 1: Statistics of PCC

Start at: 2017-11-21 07:48:47
End at: 2017-11-21 07:49:17

# Below is generated by plot.py at 2017-11-21 11:37:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 579.51 Mbit/s
95th percentile per-packet one-way delay: 171.706 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 579.51 Mbit/s
95th percentile per-packet one-way delay: 171.706 ms
Loss rate: 1.32%
```

Run 1: Report of PCC — Data Link

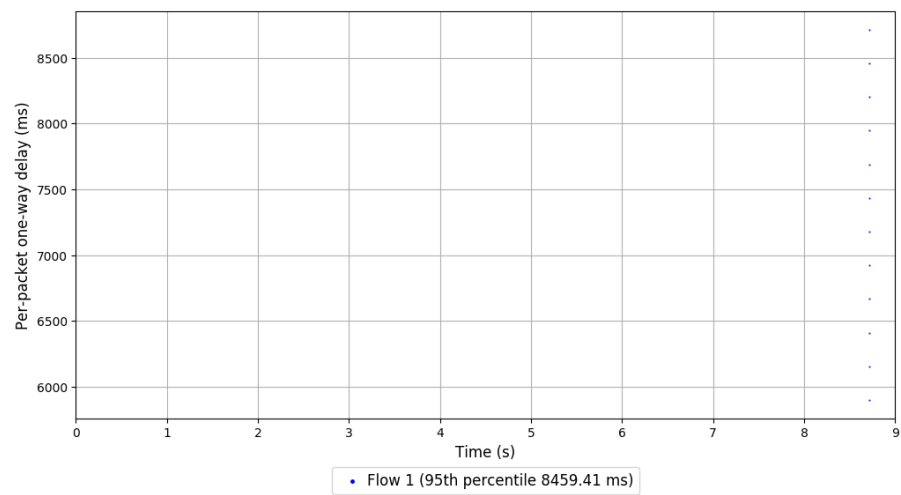
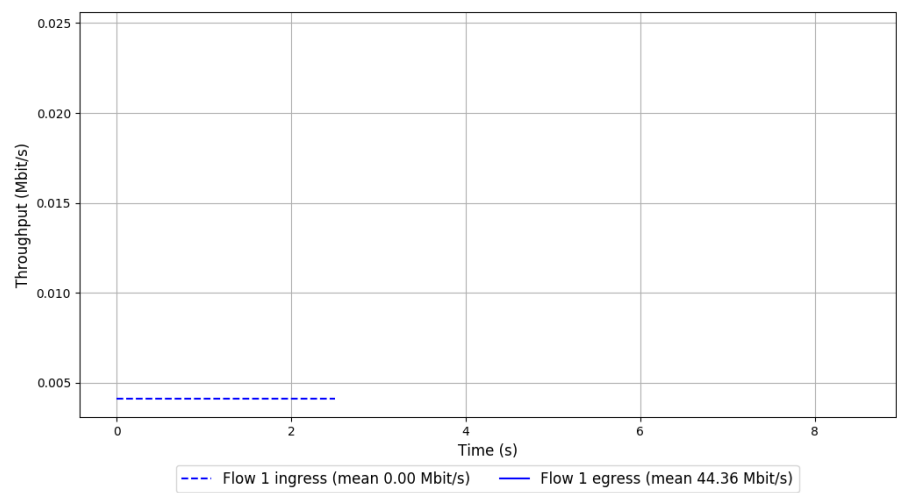


Run 2: Statistics of PCC

Start at: 2017-11-21 07:59:16

End at: 2017-11-21 07:59:46

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-21 08:09:27

End at: 2017-11-21 08:09:57

Below is generated by plot.py at 2017-11-21 11:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.94 Mbit/s

95th percentile per-packet one-way delay: 175.668 ms

Loss rate: 1.56%

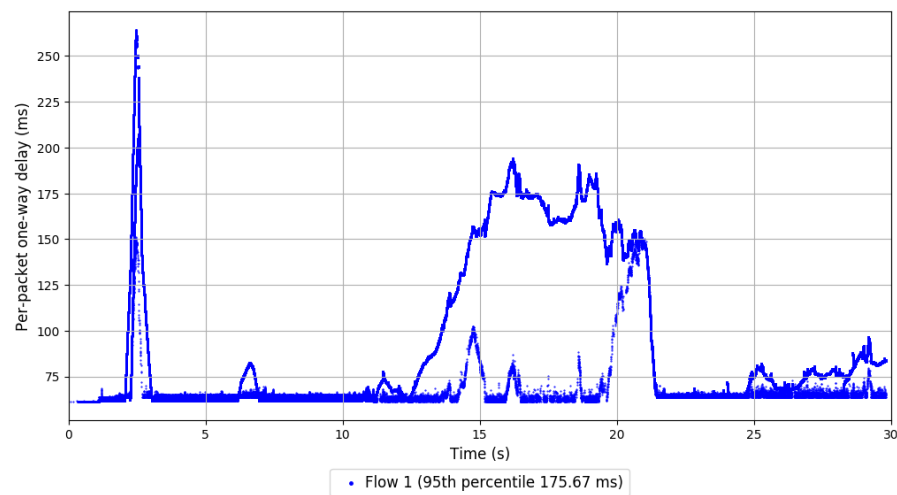
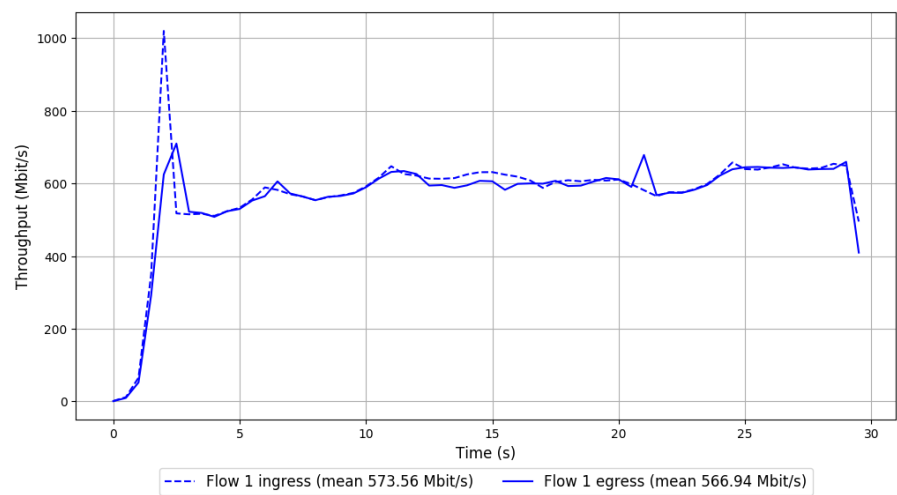
-- Flow 1:

Average throughput: 566.94 Mbit/s

95th percentile per-packet one-way delay: 175.668 ms

Loss rate: 1.56%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-21 08:20:13

End at: 2017-11-21 08:20:43

Below is generated by plot.py at 2017-11-21 11:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.11 Mbit/s

95th percentile per-packet one-way delay: 171.668 ms

Loss rate: 2.36%

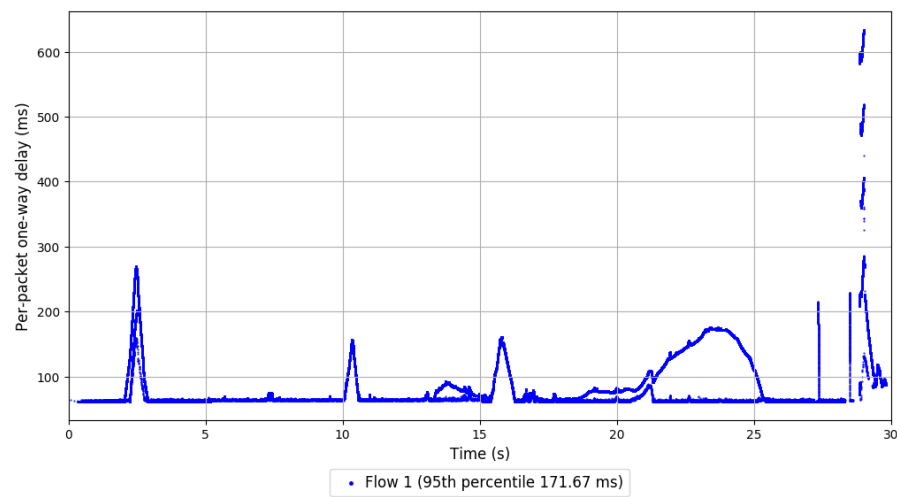
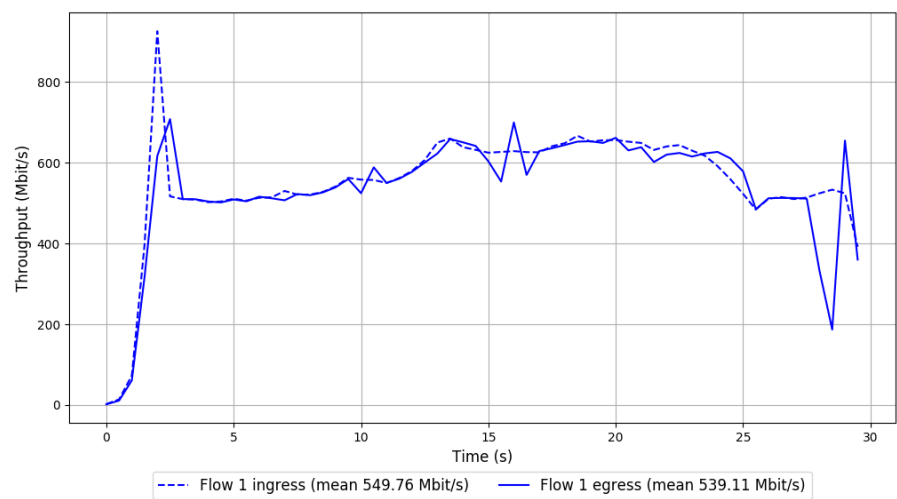
-- Flow 1:

Average throughput: 539.11 Mbit/s

95th percentile per-packet one-way delay: 171.668 ms

Loss rate: 2.36%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-21 08:30:48

End at: 2017-11-21 08:31:18

Below is generated by plot.py at 2017-11-21 11:37:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.12 Mbit/s

95th percentile per-packet one-way delay: 93.814 ms

Loss rate: 0.76%

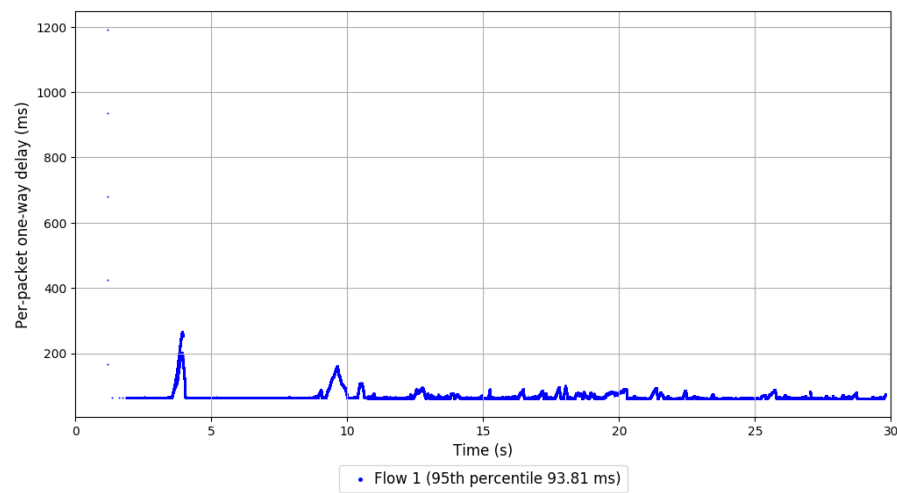
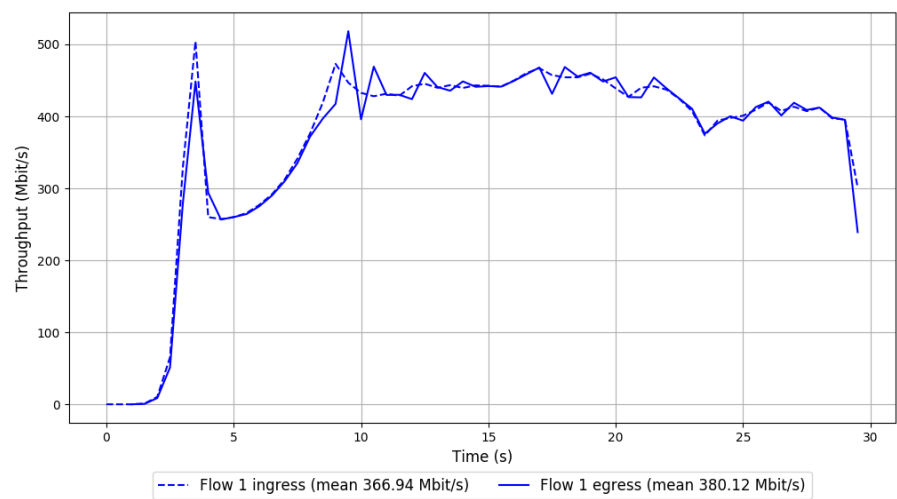
-- Flow 1:

Average throughput: 380.12 Mbit/s

95th percentile per-packet one-way delay: 93.814 ms

Loss rate: 0.76%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-21 08:41:15

End at: 2017-11-21 08:41:45

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 597.77 Mbit/s

95th percentile per-packet one-way delay: 175.046 ms

Loss rate: 1.64%

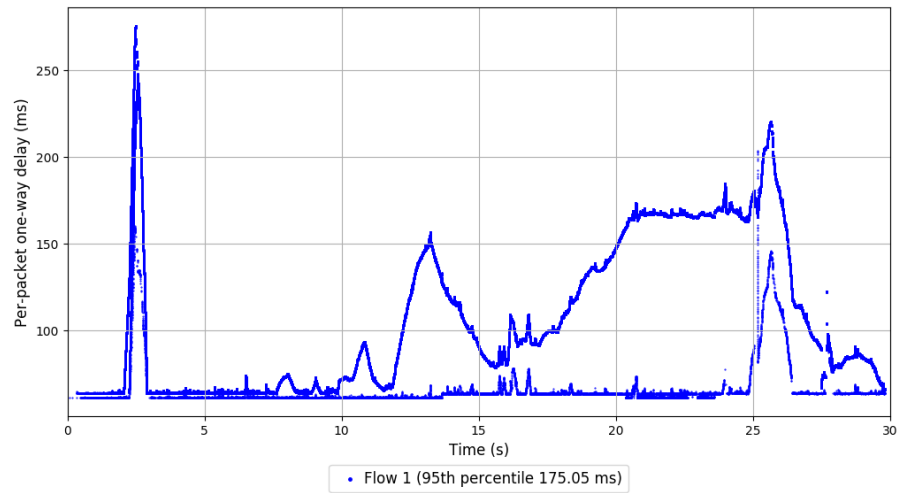
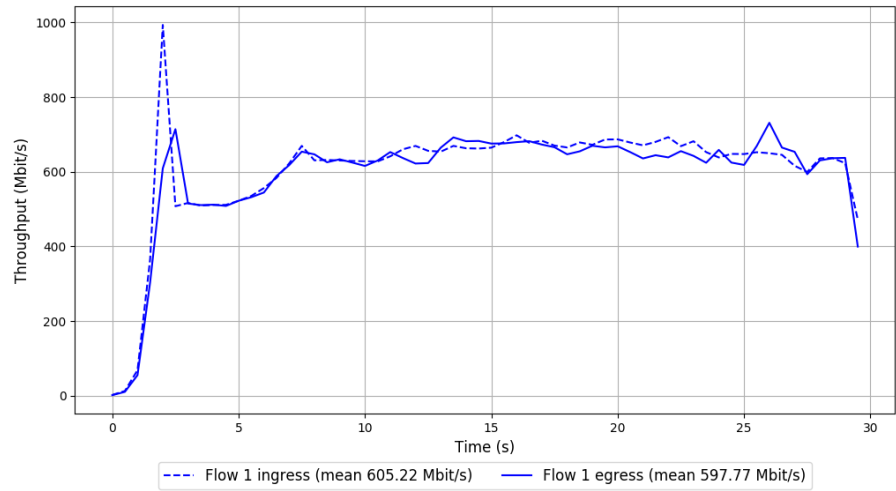
-- Flow 1:

Average throughput: 597.77 Mbit/s

95th percentile per-packet one-way delay: 175.046 ms

Loss rate: 1.64%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-21 08:51:57

End at: 2017-11-21 08:52:27

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.92 Mbit/s

95th percentile per-packet one-way delay: 119.495 ms

Loss rate: 1.09%

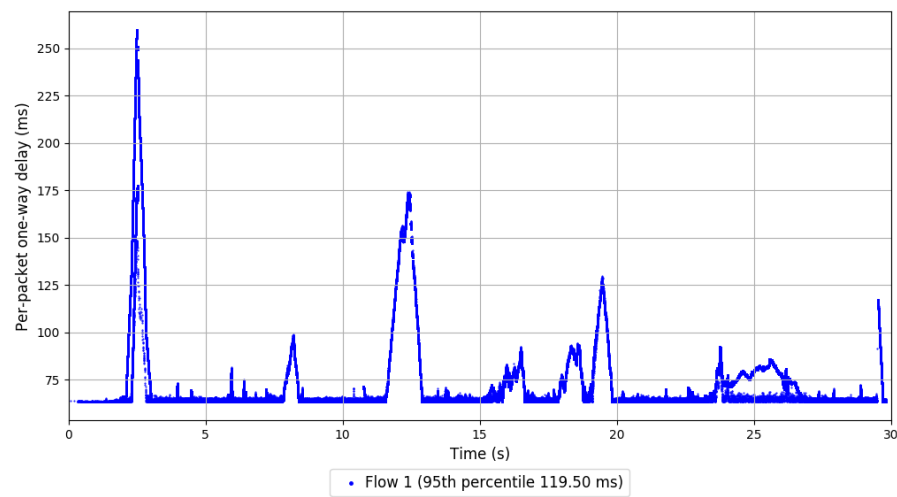
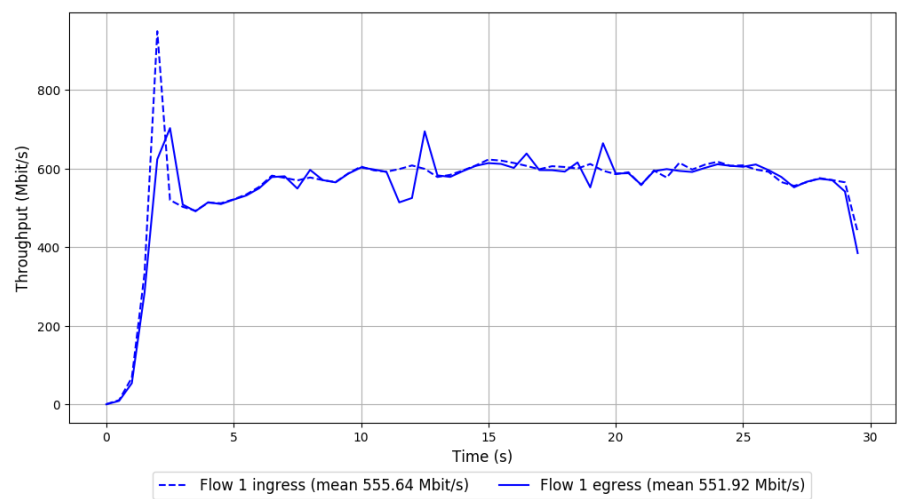
-- Flow 1:

Average throughput: 551.92 Mbit/s

95th percentile per-packet one-way delay: 119.495 ms

Loss rate: 1.09%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-21 09:02:25

End at: 2017-11-21 09:02:55

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 520.13 Mbit/s

95th percentile per-packet one-way delay: 159.189 ms

Loss rate: 3.72%

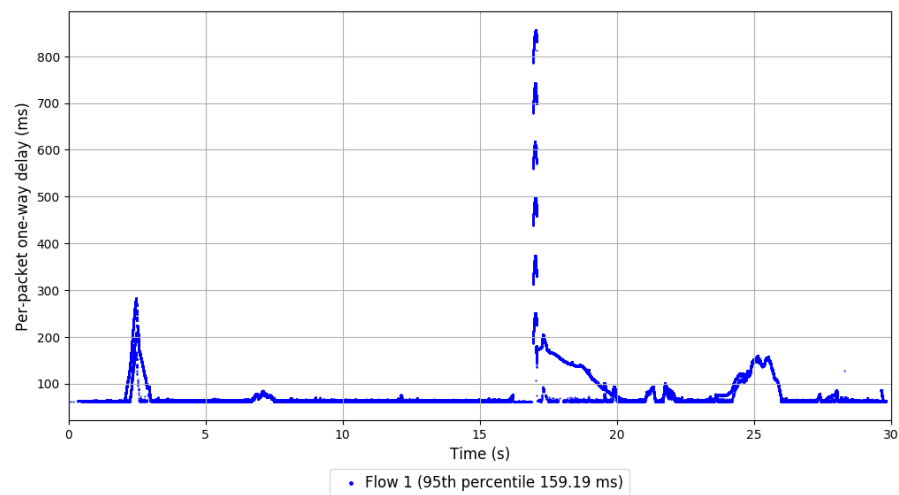
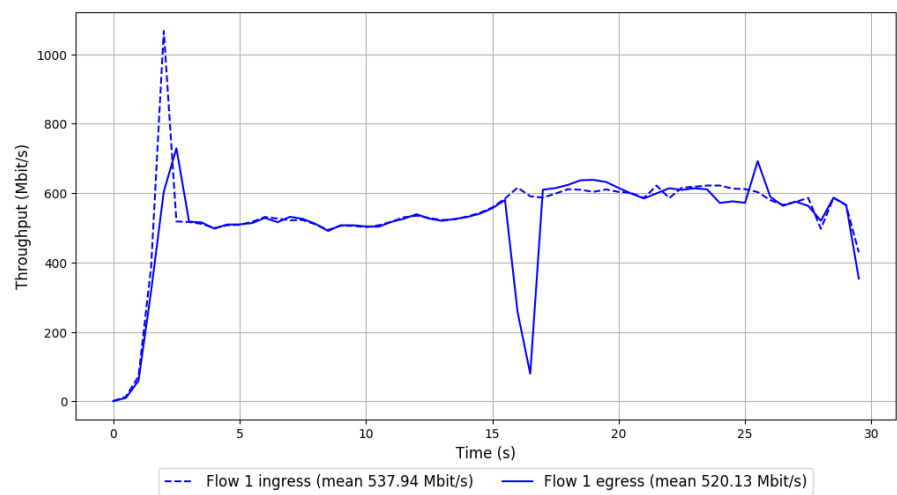
-- Flow 1:

Average throughput: 520.13 Mbit/s

95th percentile per-packet one-way delay: 159.189 ms

Loss rate: 3.72%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-21 09:12:54

End at: 2017-11-21 09:13:24

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.35 Mbit/s

95th percentile per-packet one-way delay: 130.224 ms

Loss rate: 1.39%

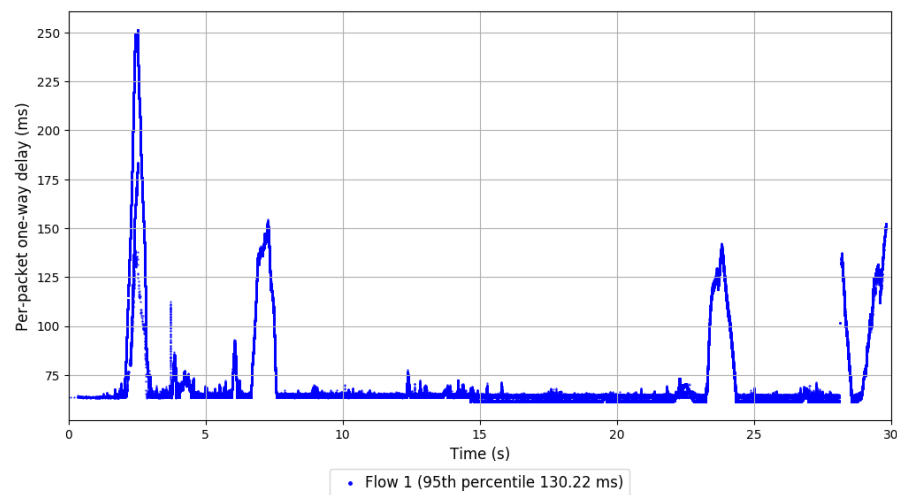
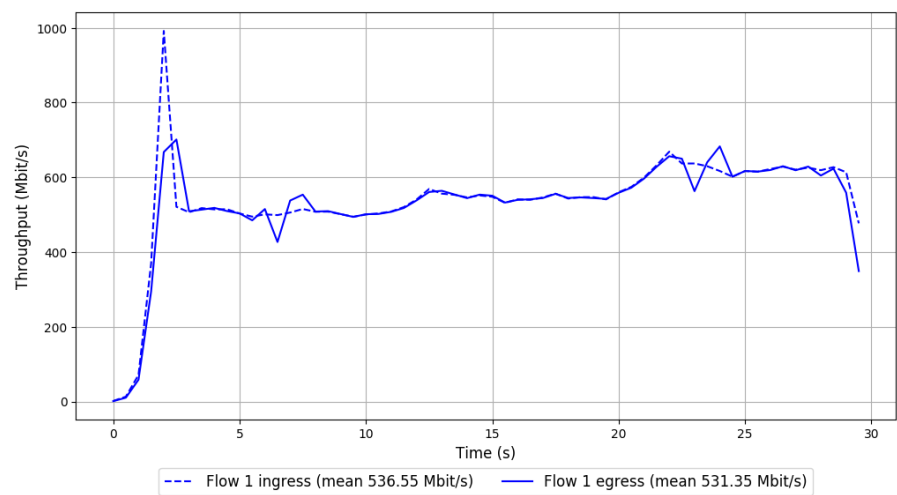
-- Flow 1:

Average throughput: 531.35 Mbit/s

95th percentile per-packet one-way delay: 130.224 ms

Loss rate: 1.39%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-21 09:23:17

End at: 2017-11-21 09:23:47

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 570.52 Mbit/s

95th percentile per-packet one-way delay: 179.092 ms

Loss rate: 2.28%

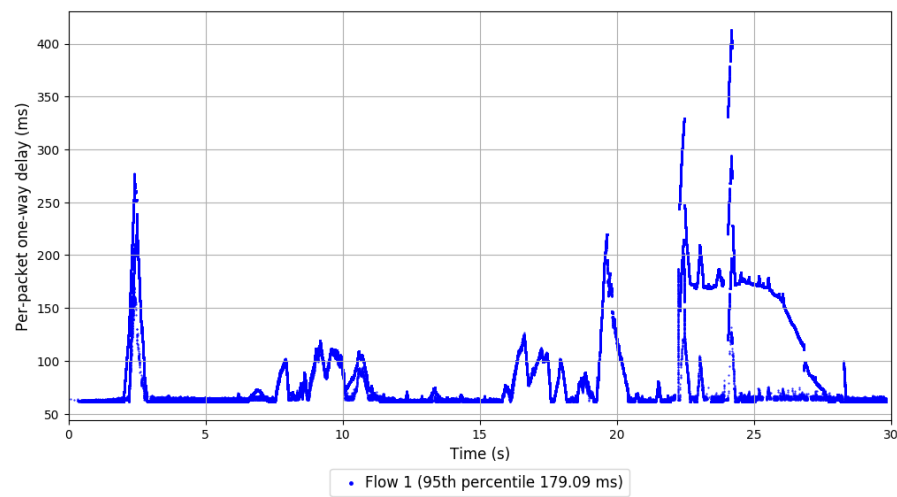
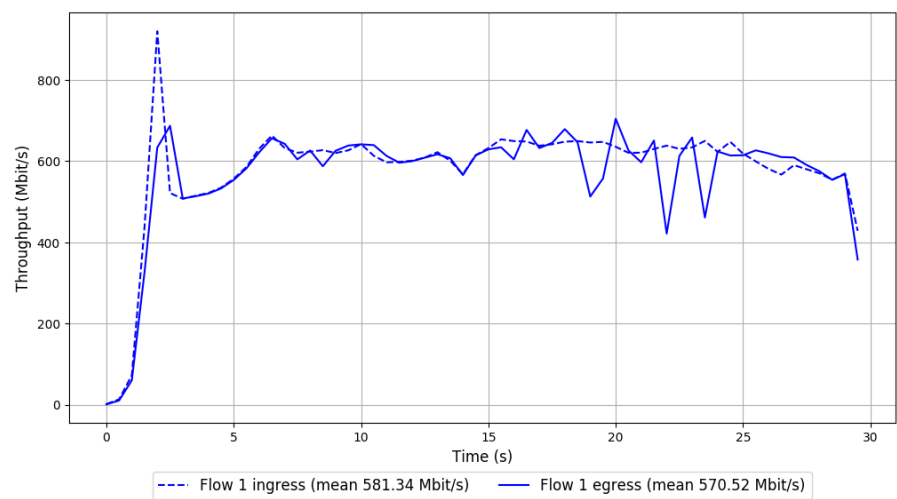
-- Flow 1:

Average throughput: 570.52 Mbit/s

95th percentile per-packet one-way delay: 179.092 ms

Loss rate: 2.28%

Run 10: Report of PCC — Data Link

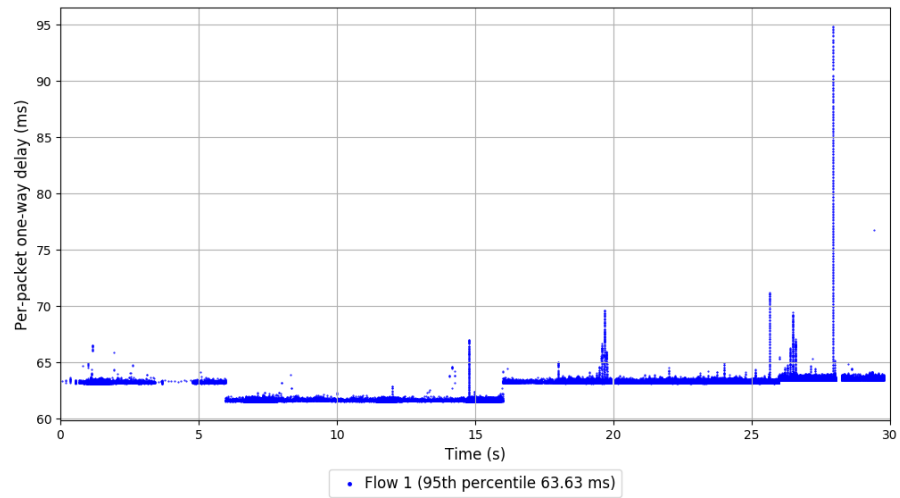
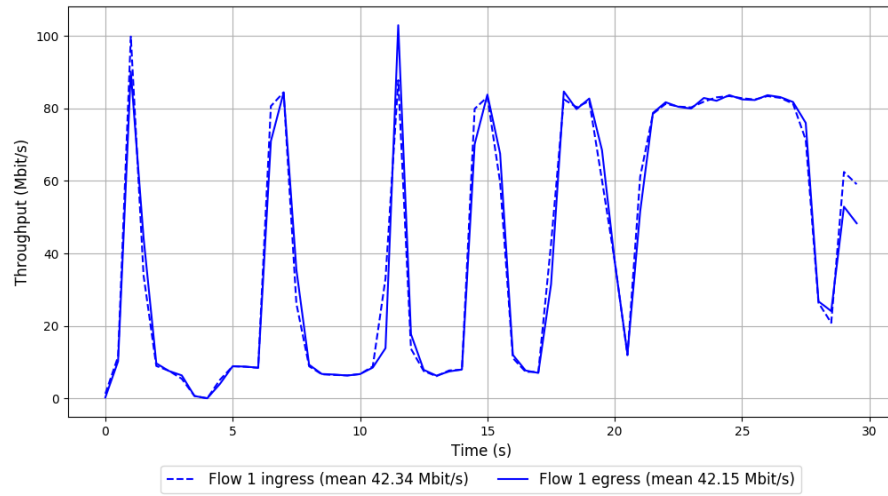


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 07:52:42
End at: 2017-11-21 07:53:13

# Below is generated by plot.py at 2017-11-21 11:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.15 Mbit/s
95th percentile per-packet one-way delay: 63.632 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 42.15 Mbit/s
95th percentile per-packet one-way delay: 63.632 ms
Loss rate: 0.86%
```


Run 1: Report of QUIC Cubic — Data Link

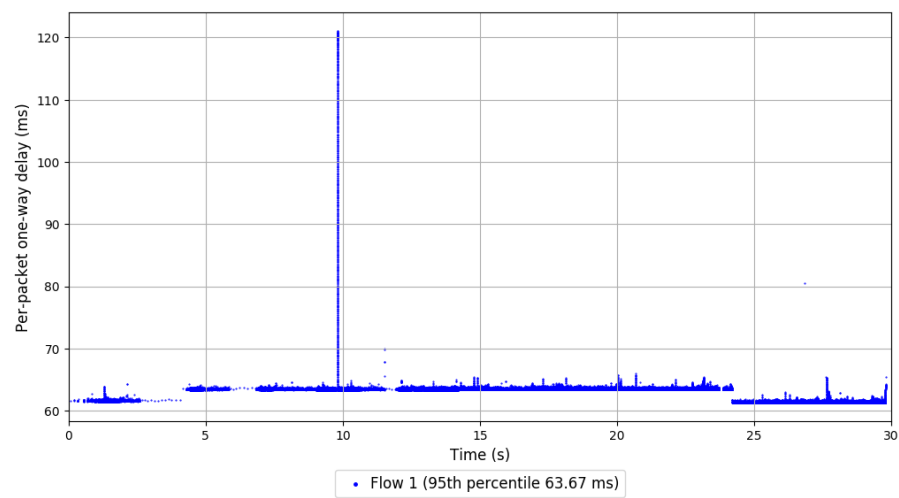
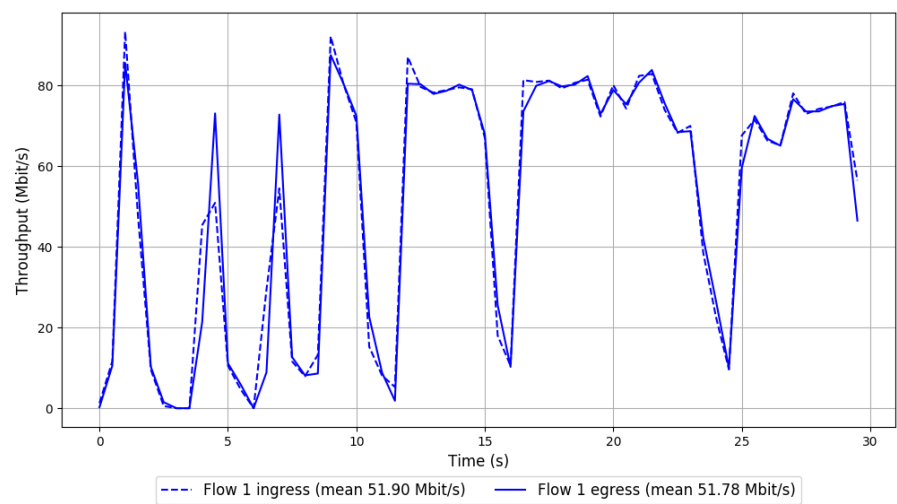


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 08:02:54
End at: 2017-11-21 08:03:24

# Below is generated by plot.py at 2017-11-21 11:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 63.672 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 63.672 ms
Loss rate: 0.63%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 08:13:27

End at: 2017-11-21 08:13:57

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.01 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.64%

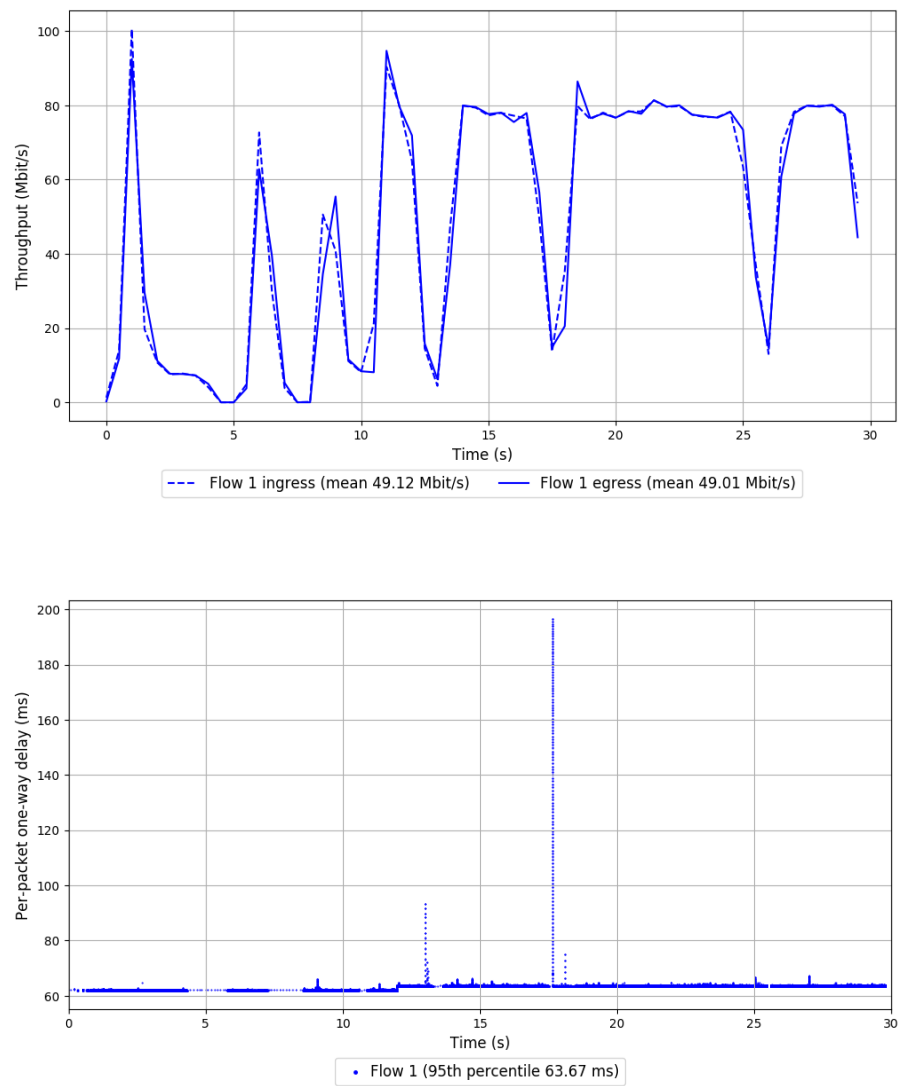
-- Flow 1:

Average throughput: 49.01 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.64%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 08:24:11

End at: 2017-11-21 08:24:41

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.48 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.74%

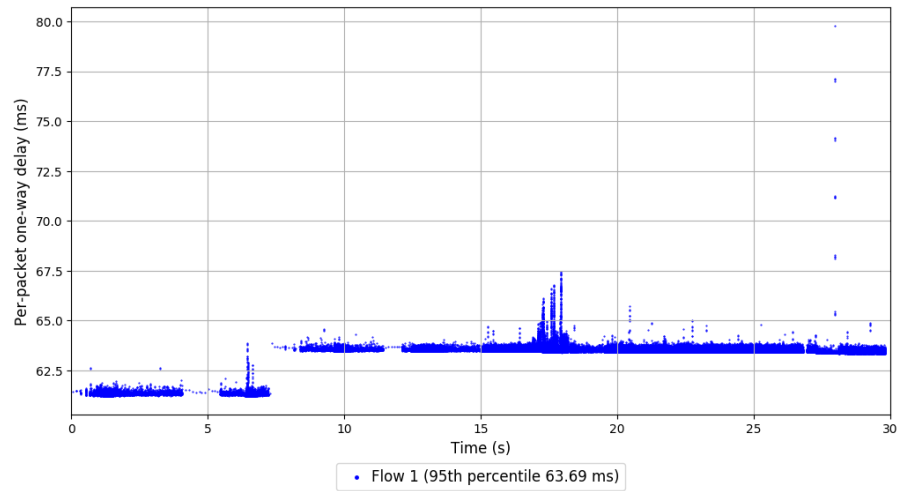
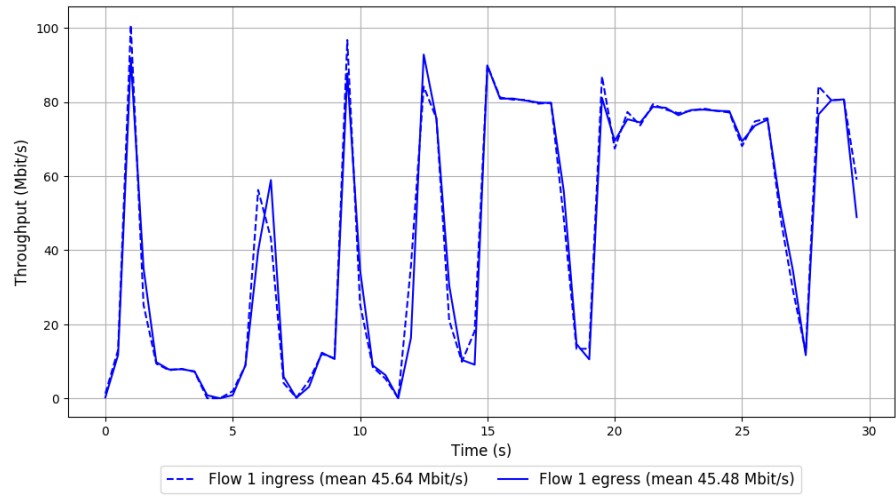
-- Flow 1:

Average throughput: 45.48 Mbit/s

95th percentile per-packet one-way delay: 63.693 ms

Loss rate: 0.74%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 08:34:40

End at: 2017-11-21 08:35:10

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.81 Mbit/s

95th percentile per-packet one-way delay: 61.816 ms

Loss rate: 0.67%

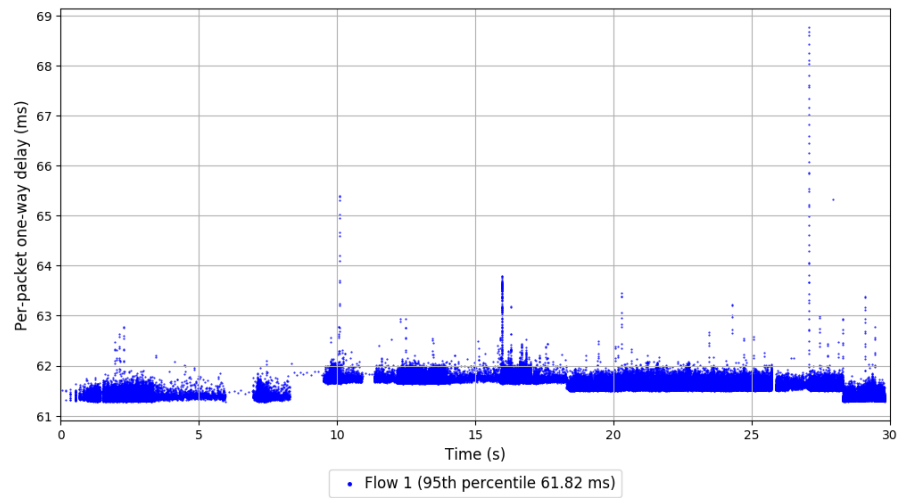
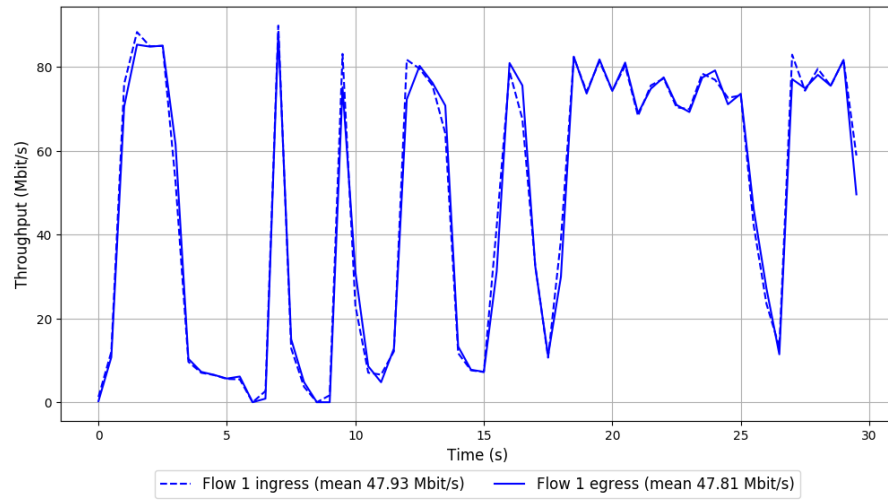
-- Flow 1:

Average throughput: 47.81 Mbit/s

95th percentile per-packet one-way delay: 61.816 ms

Loss rate: 0.67%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 08:45:21

End at: 2017-11-21 08:45:51

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.48 Mbit/s

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

Loss rate: 0.77%

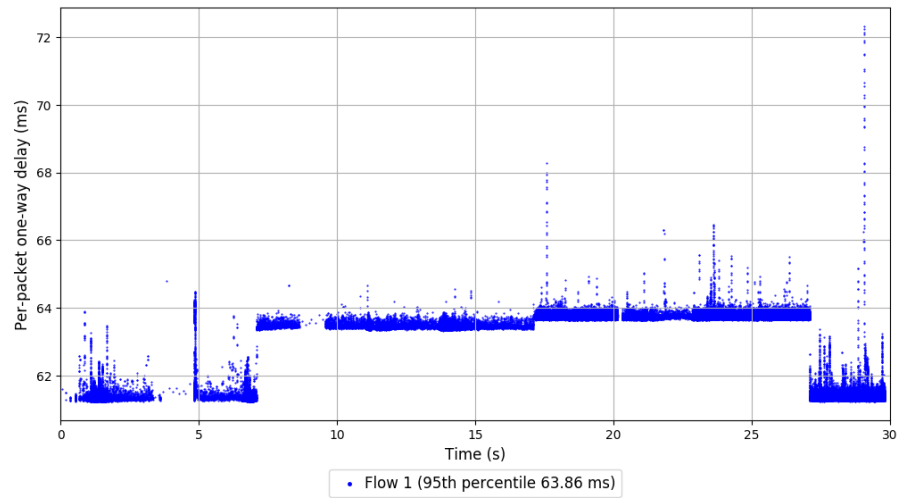
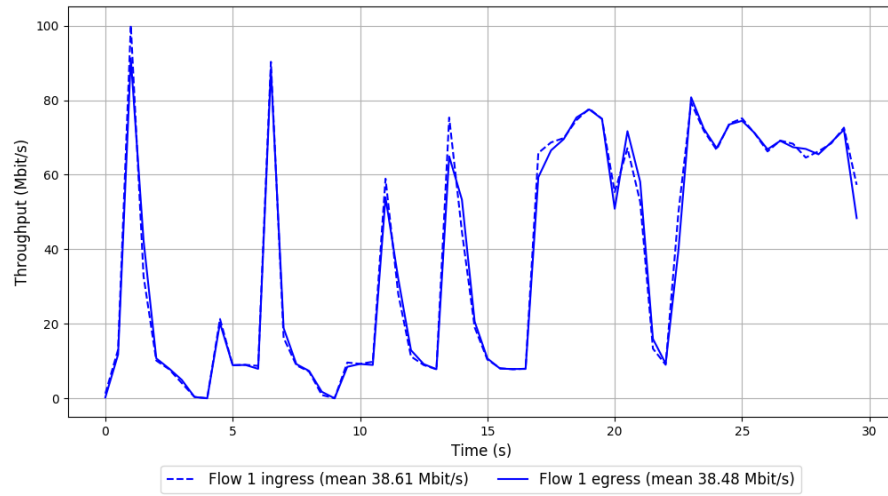
-- Flow 1:

Average throughput: 38.48 Mbit/s

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

Loss rate: 0.77%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 08:55:55

End at: 2017-11-21 08:56:25

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.36 Mbit/s

95th percentile per-packet one-way delay: 63.377 ms

Loss rate: 0.76%

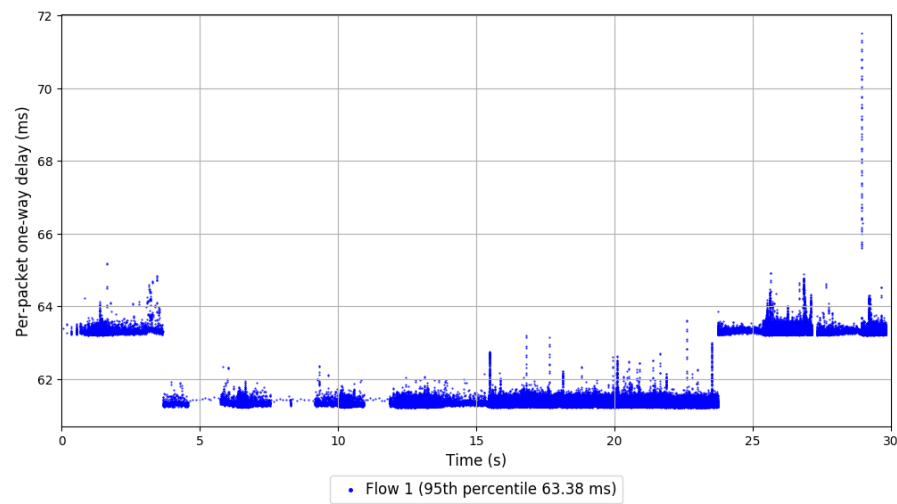
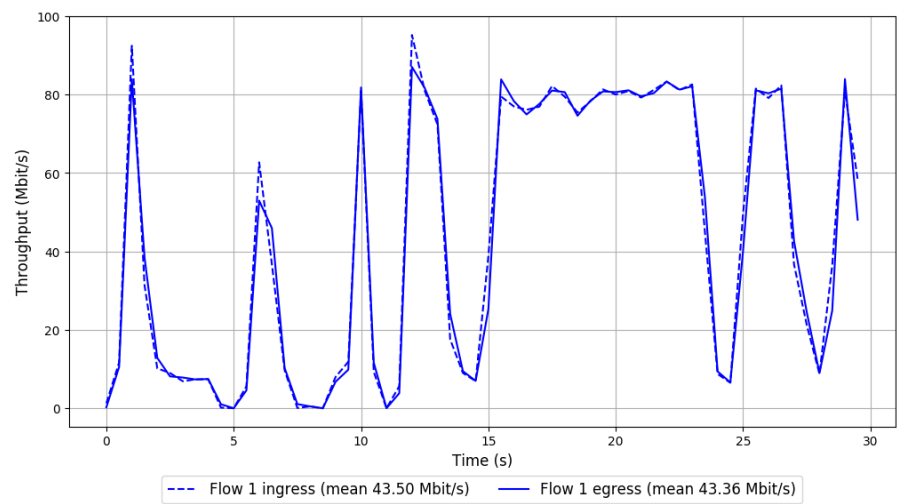
-- Flow 1:

Average throughput: 43.36 Mbit/s

95th percentile per-packet one-way delay: 63.377 ms

Loss rate: 0.76%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 09:06:25

End at: 2017-11-21 09:06:55

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.74 Mbit/s

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

Loss rate: 0.75%

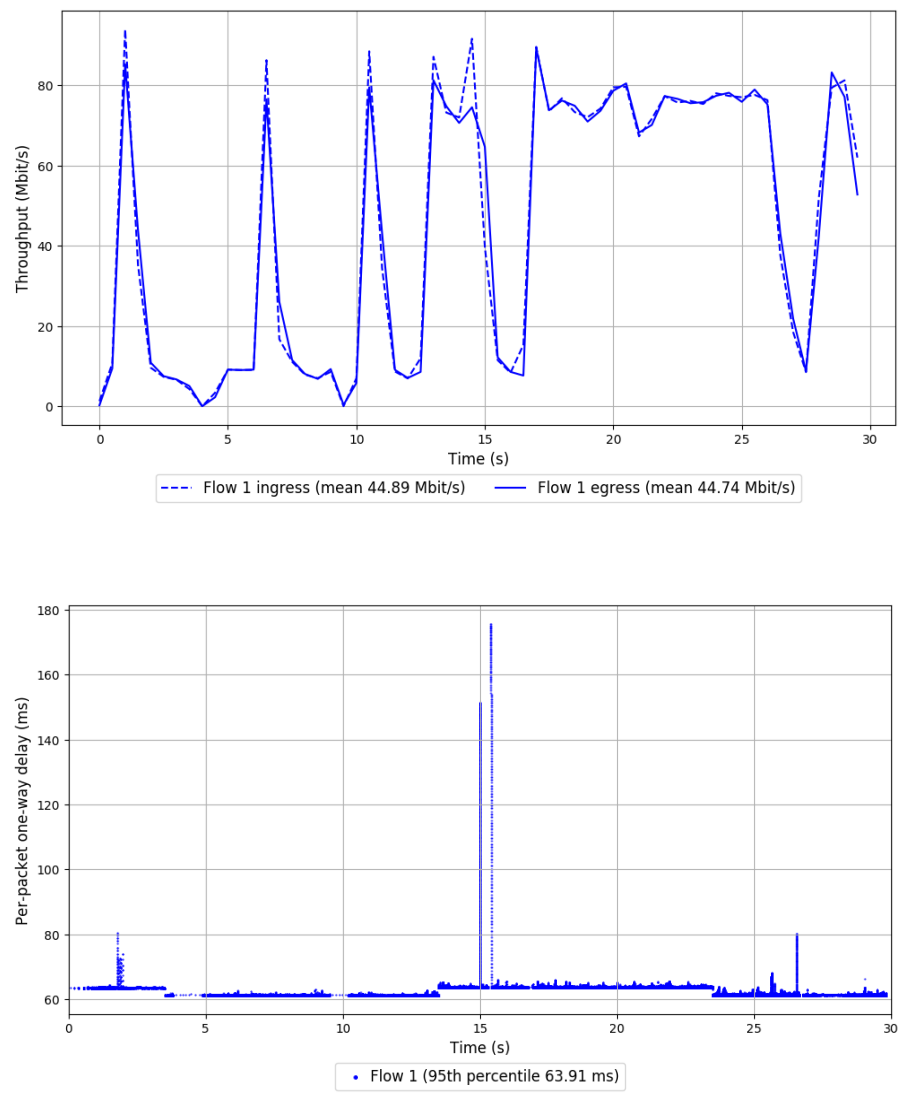
-- Flow 1:

Average throughput: 44.74 Mbit/s

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

Loss rate: 0.75%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 09:16:54

End at: 2017-11-21 09:17:24

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.64 Mbit/s

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

Loss rate: 0.67%

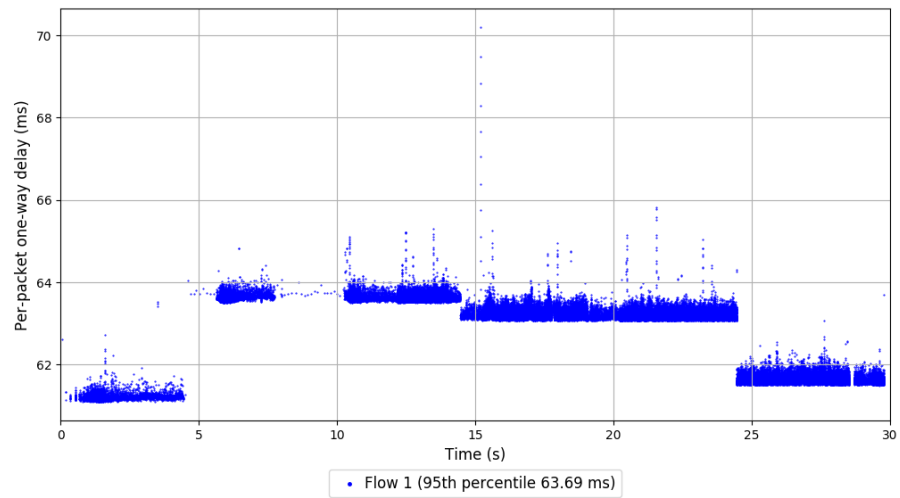
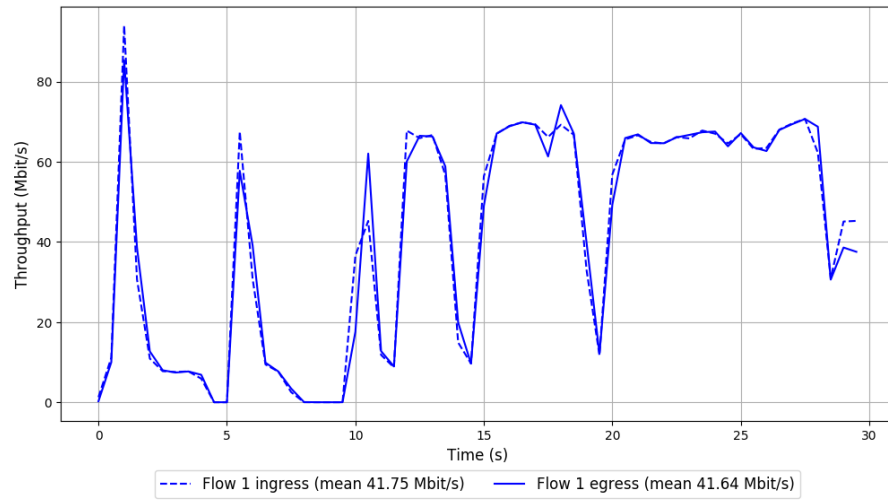
-- Flow 1:

Average throughput: 41.64 Mbit/s

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

Loss rate: 0.67%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 09:27:13

End at: 2017-11-21 09:27:43

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.76 Mbit/s

95th percentile per-packet one-way delay: 63.691 ms

Loss rate: 0.79%

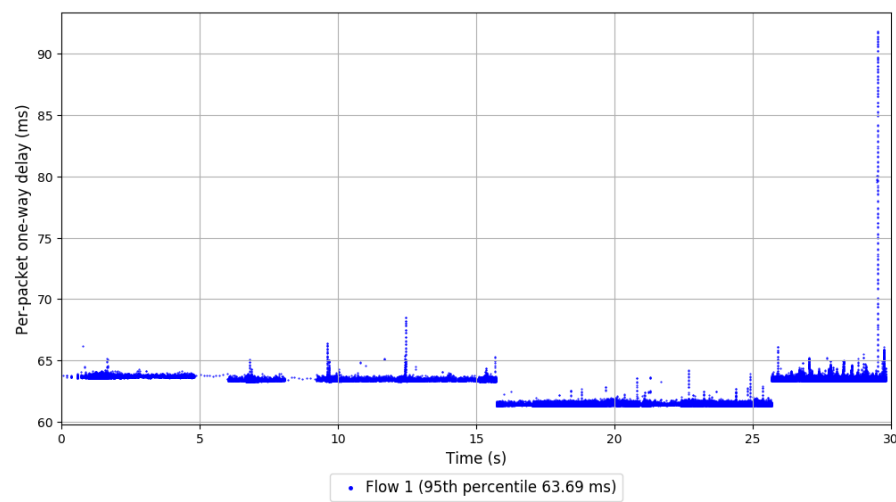
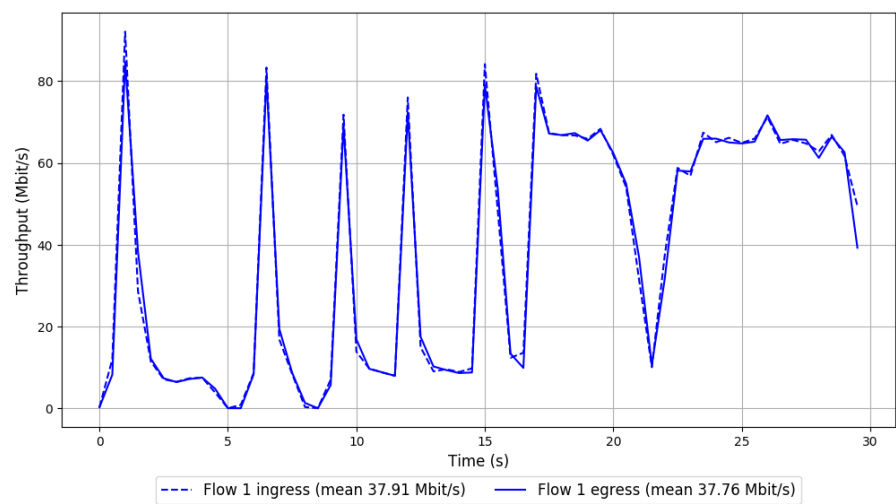
-- Flow 1:

Average throughput: 37.76 Mbit/s

95th percentile per-packet one-way delay: 63.691 ms

Loss rate: 0.79%

Run 10: Report of QUIC Cubic — Data Link

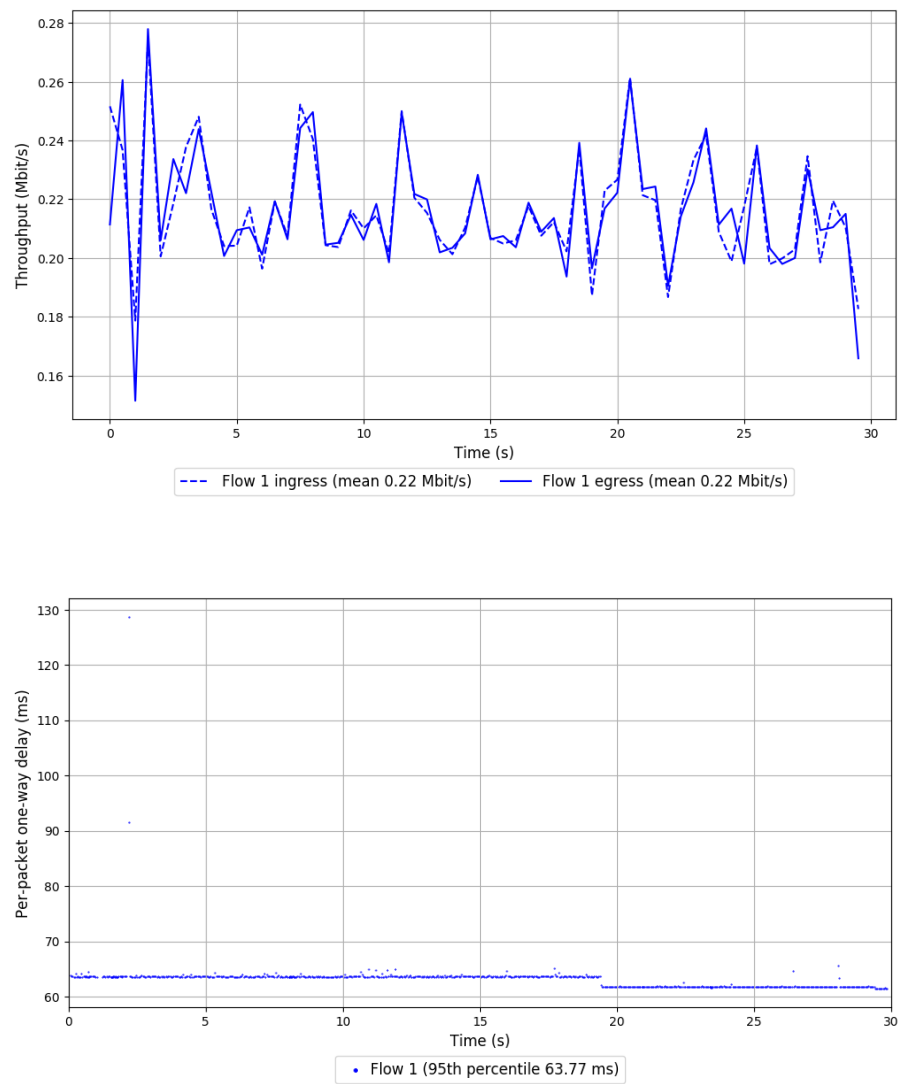


```
Run 1: Statistics of SCReAM

Start at: 2017-11-21 07:55:39
End at: 2017-11-21 07:56:09

# Below is generated by plot.py at 2017-11-21 11:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.771 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.771 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

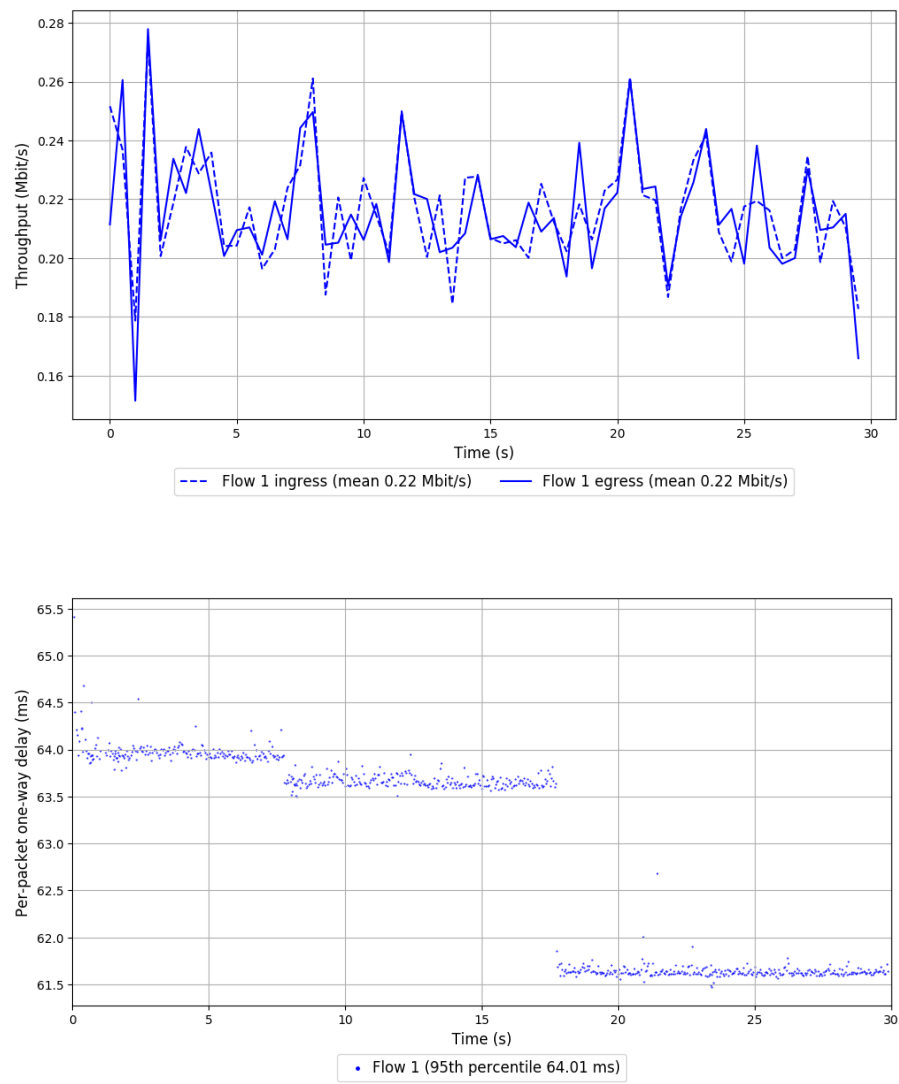


```
Run 2: Statistics of SCReAM

Start at: 2017-11-21 08:05:51
End at: 2017-11-21 08:06:21

# Below is generated by plot.py at 2017-11-21 11:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.010 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 64.010 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-21 08:16:26

End at: 2017-11-21 08:16:56

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.814 ms

Loss rate: 0.45%

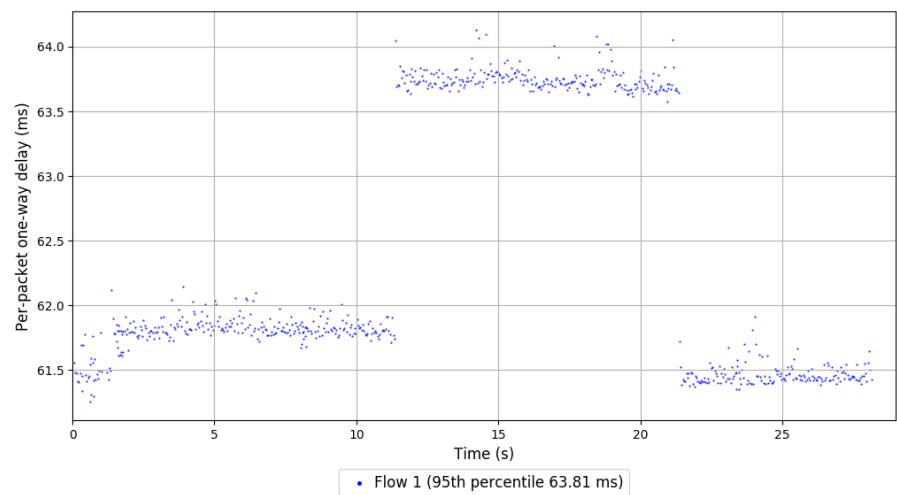
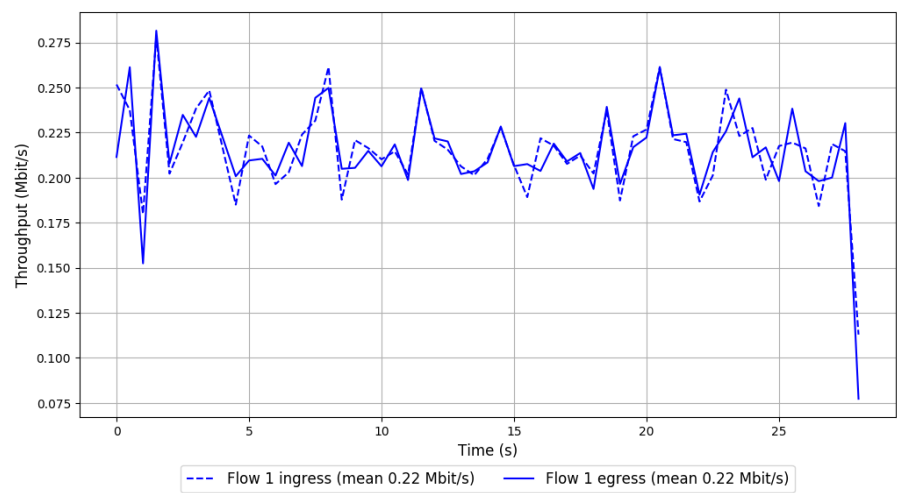
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.814 ms

Loss rate: 0.45%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-21 08:27:08

End at: 2017-11-21 08:27:38

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.819 ms

Loss rate: 0.38%

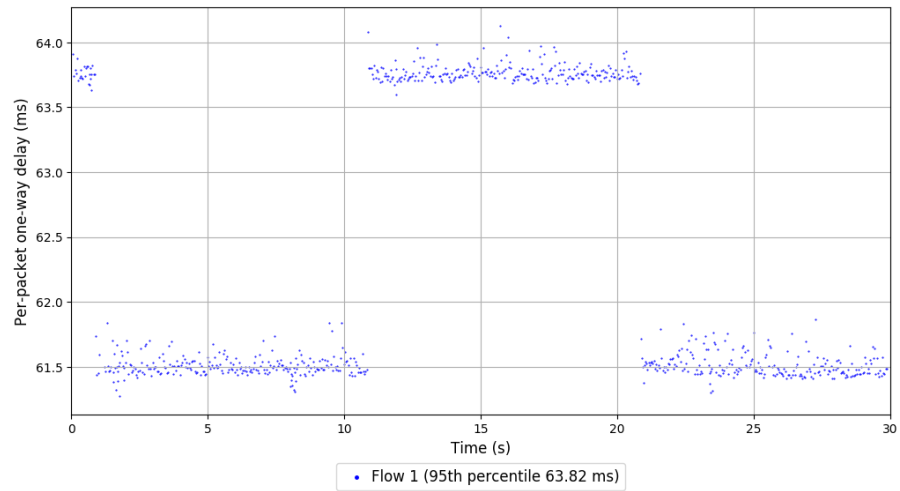
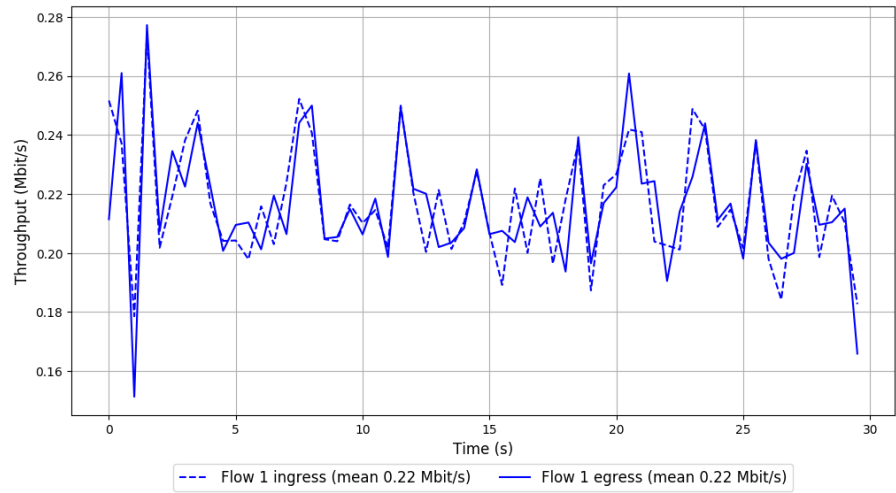
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.819 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-21 08:37:38

End at: 2017-11-21 08:38:08

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.641 ms

Loss rate: 0.38%

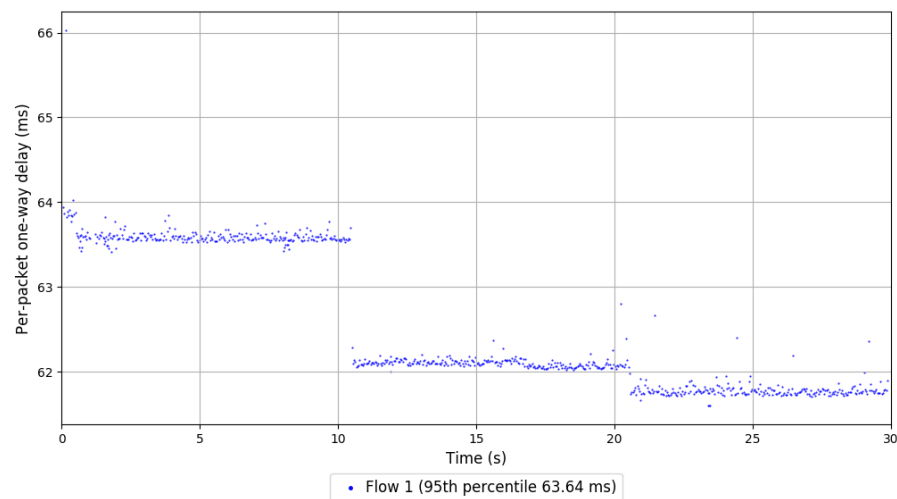
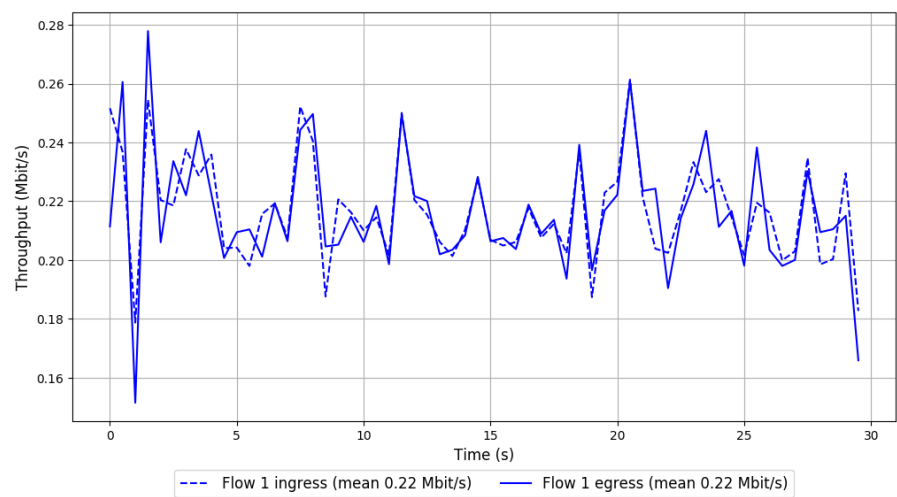
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.641 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-21 08:48:20

End at: 2017-11-21 08:48:50

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.930 ms

Loss rate: 0.38%

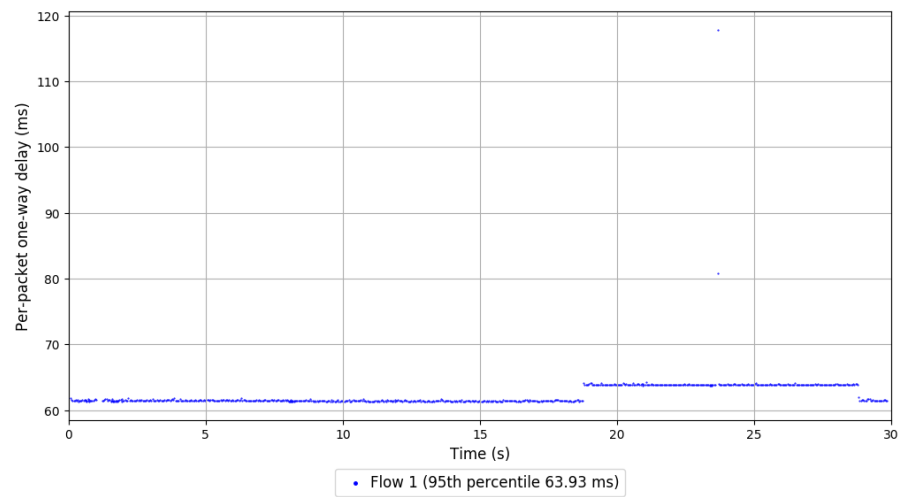
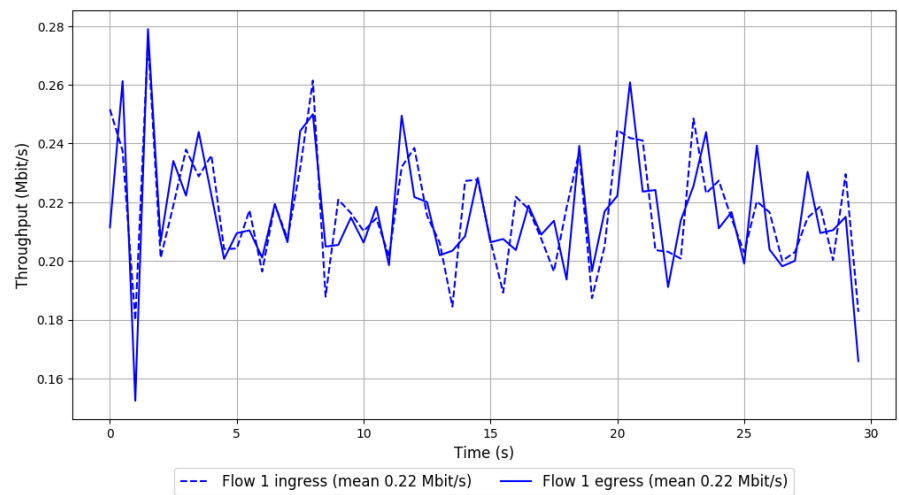
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.930 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-21 08:58:53

End at: 2017-11-21 08:59:23

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.773 ms

Loss rate: 0.51%

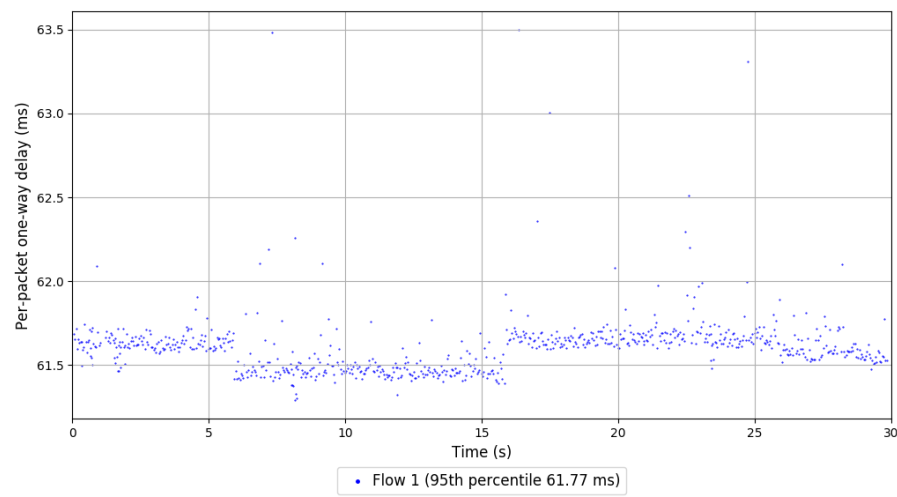
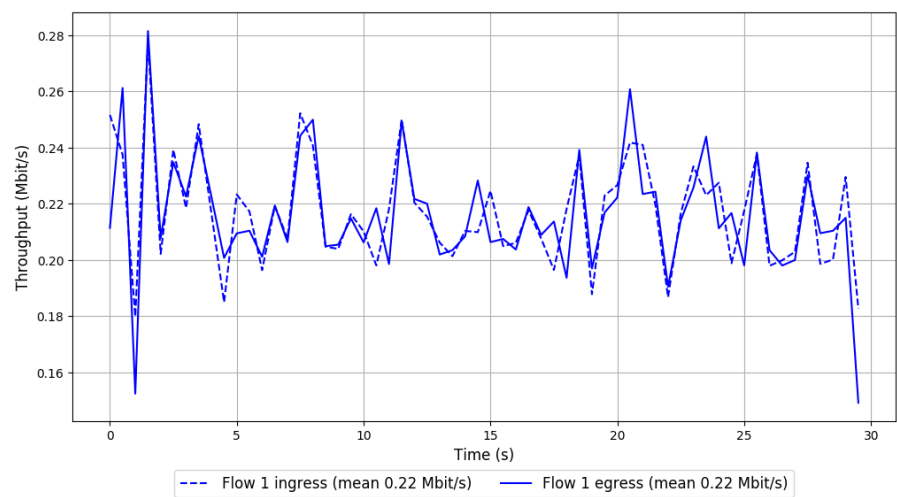
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.773 ms

Loss rate: 0.51%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

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

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.51%

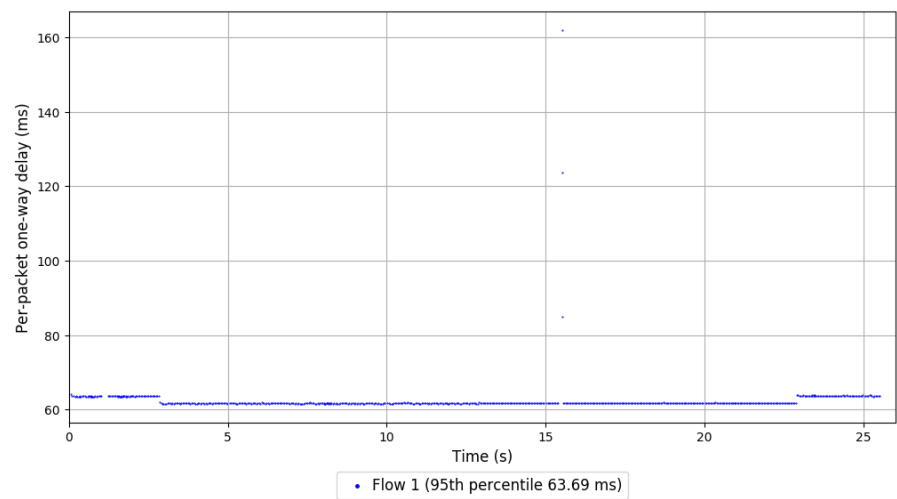
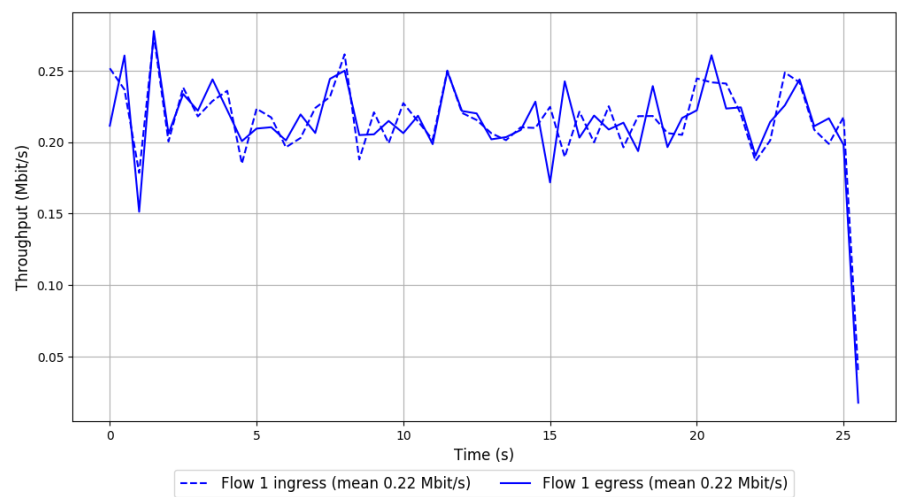
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.51%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-21 09:19:51

End at: 2017-11-21 09:20:21

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

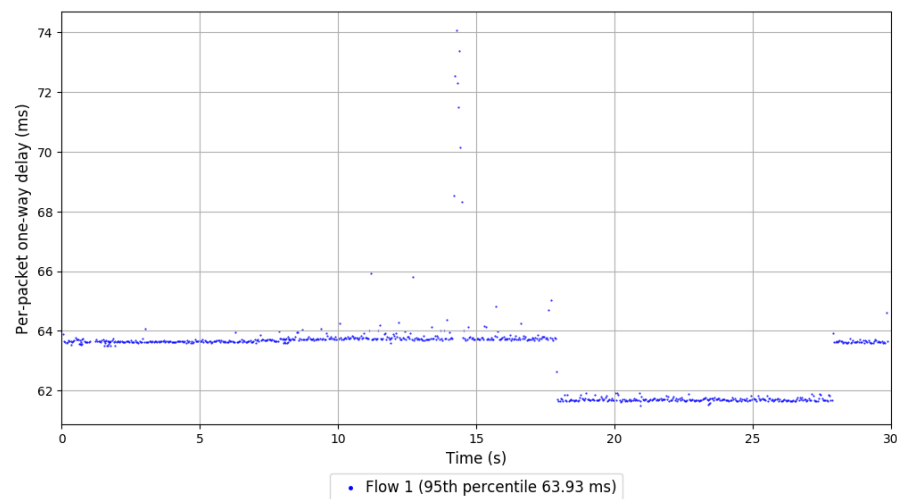
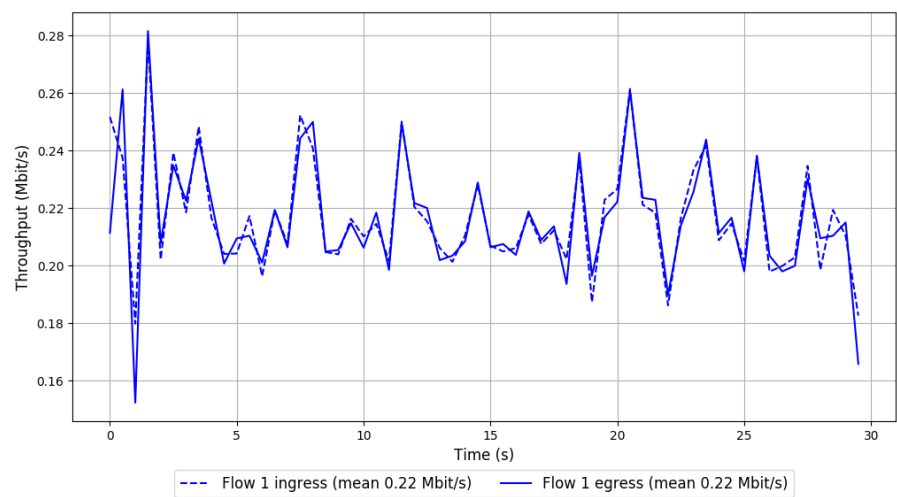
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

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

End at: 2017-11-21 09:30:39

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.729 ms

Loss rate: 0.38%

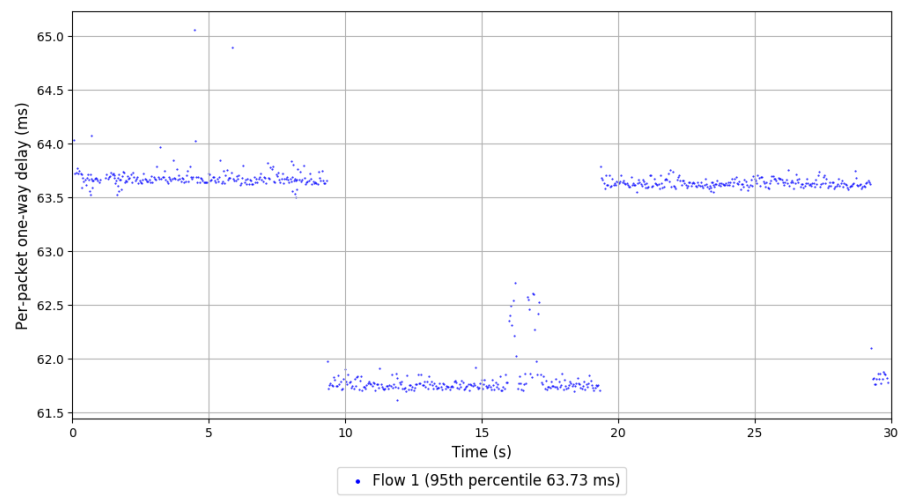
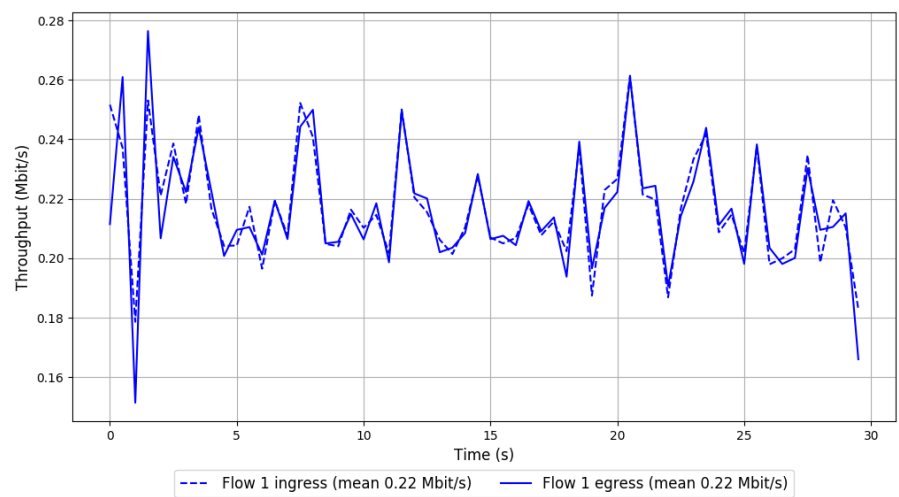
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.729 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

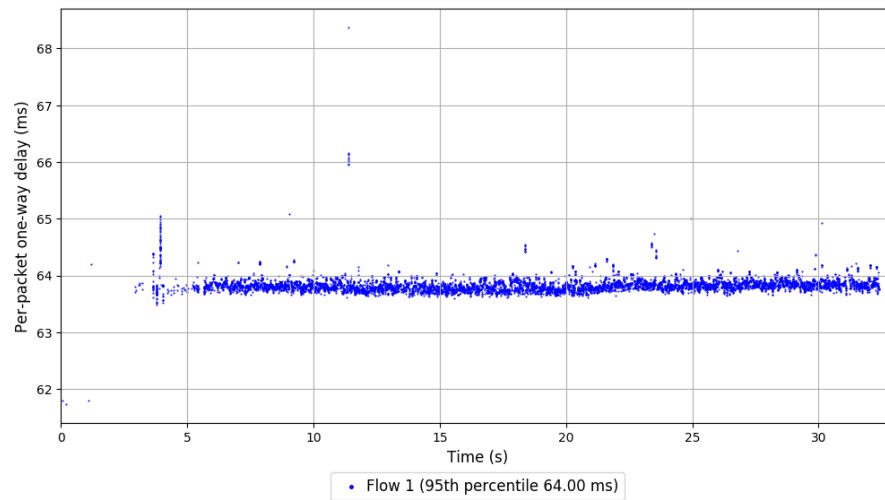
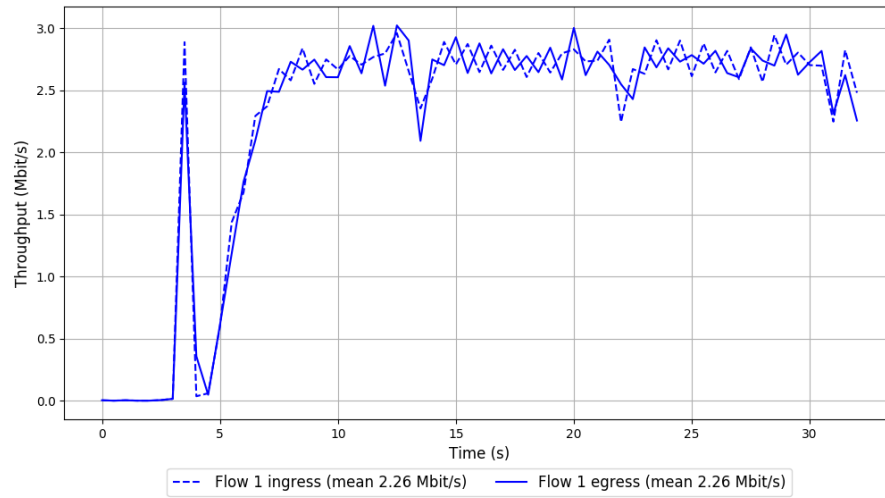


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-21 07:54:10
End at: 2017-11-21 07:54:40

# Below is generated by plot.py at 2017-11-21 11:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 63.997 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 63.997 ms
Loss rate: 0.46%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-21 08:04:22

End at: 2017-11-21 08:04:52

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.923 ms

Loss rate: 0.45%

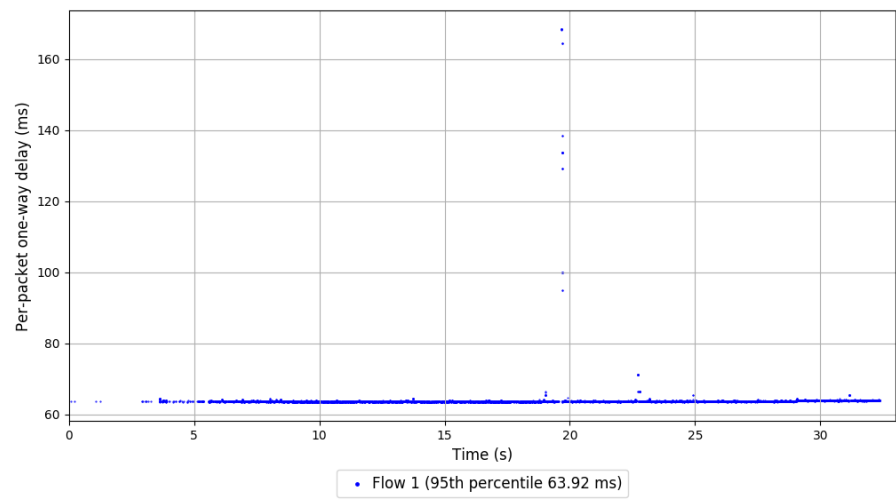
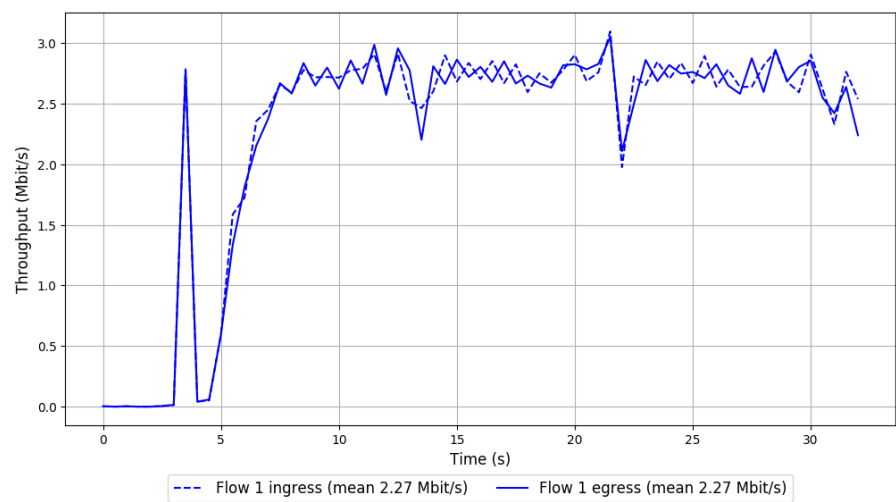
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.923 ms

Loss rate: 0.45%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-21 08:14:55

End at: 2017-11-21 08:15:25

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.720 ms

Loss rate: 0.45%

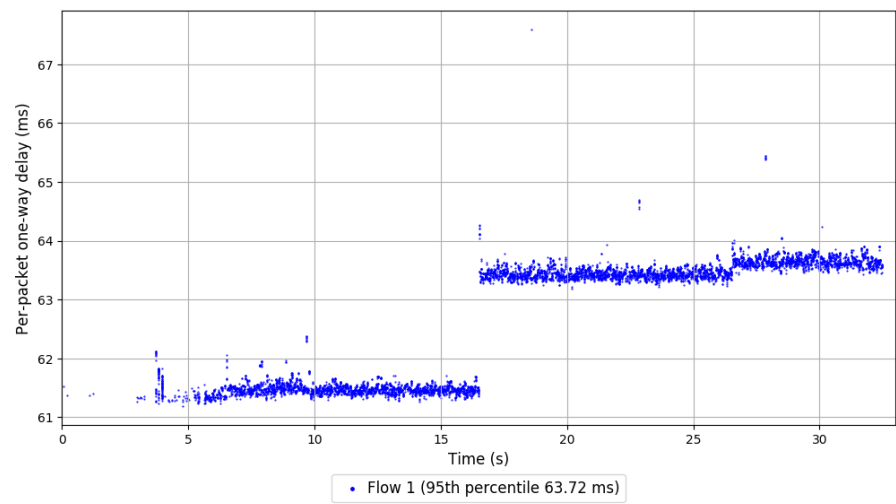
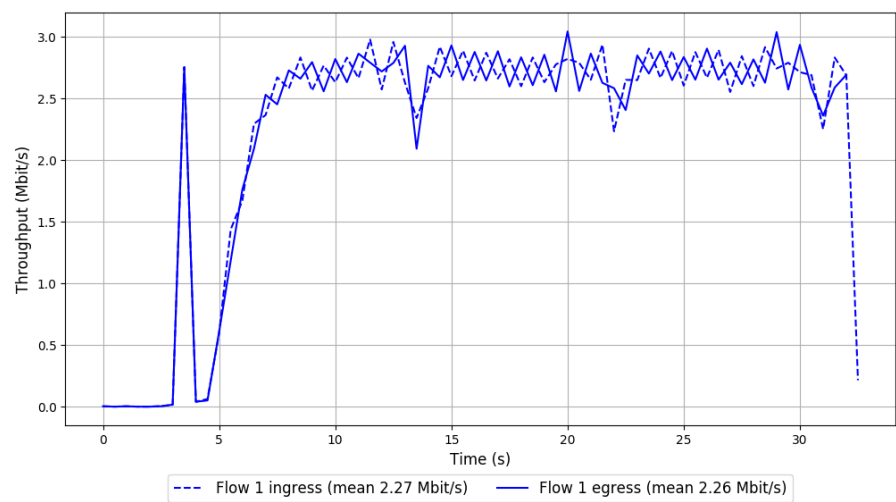
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.720 ms

Loss rate: 0.45%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-21 08:25:40

End at: 2017-11-21 08:26:10

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 63.817 ms

Loss rate: 0.50%

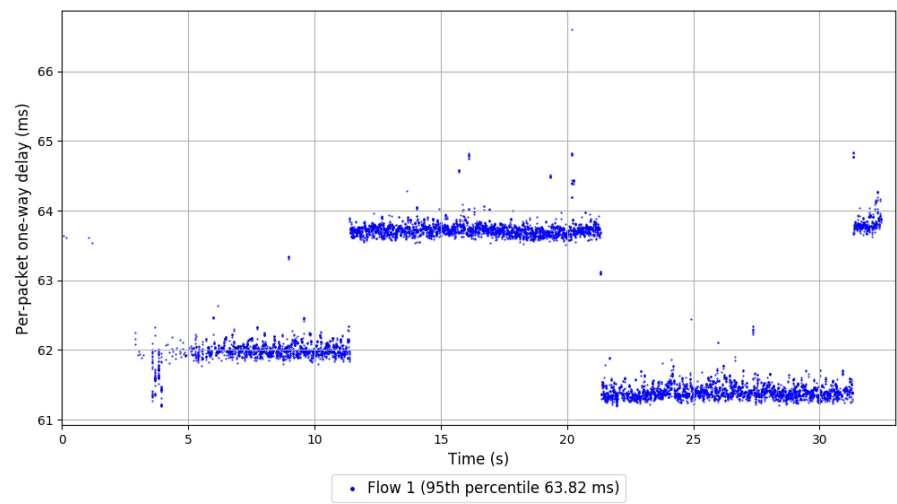
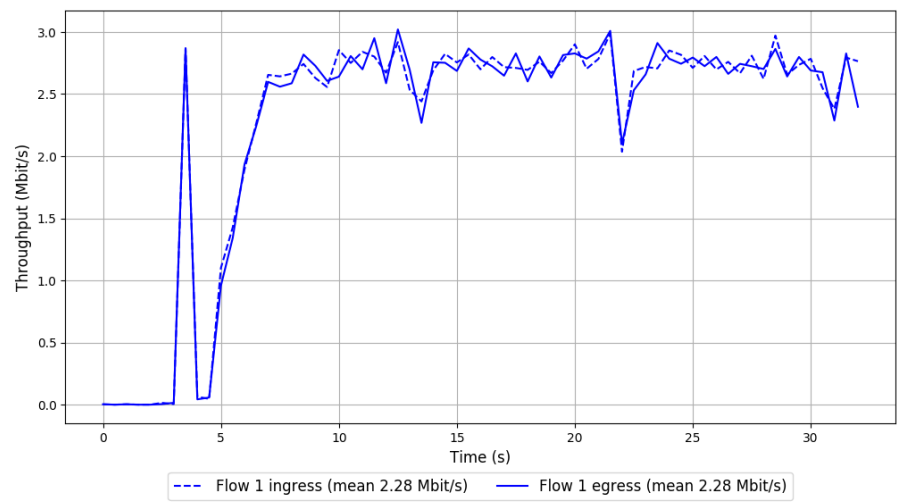
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 63.817 ms

Loss rate: 0.50%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-21 08:36:09

End at: 2017-11-21 08:36:39

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.506 ms

Loss rate: 0.51%

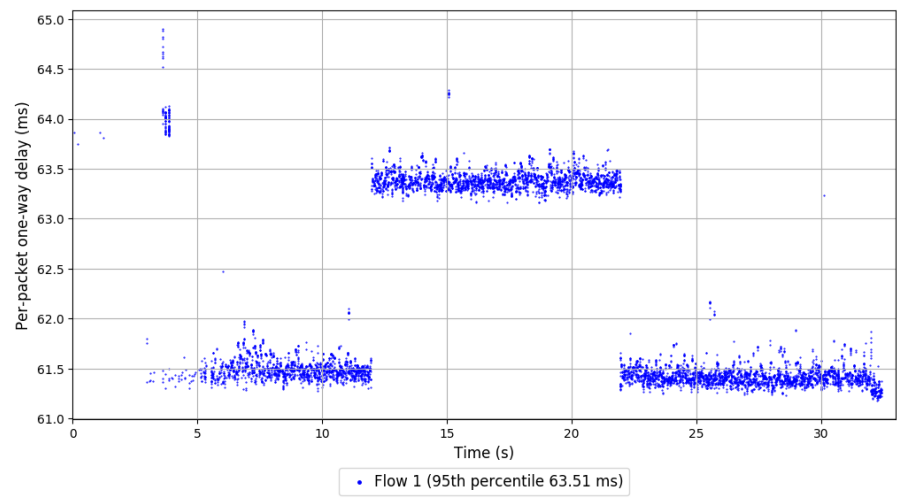
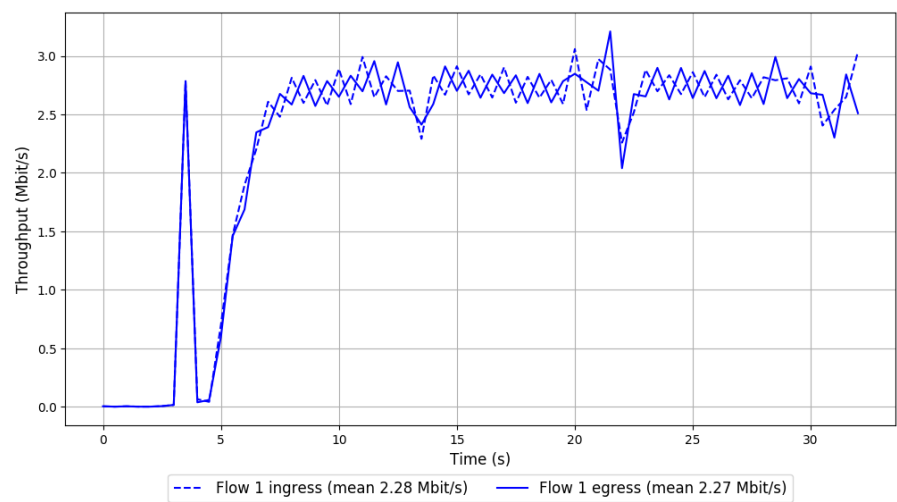
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.506 ms

Loss rate: 0.51%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-21 08:46:51

End at: 2017-11-21 08:47:21

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.47%

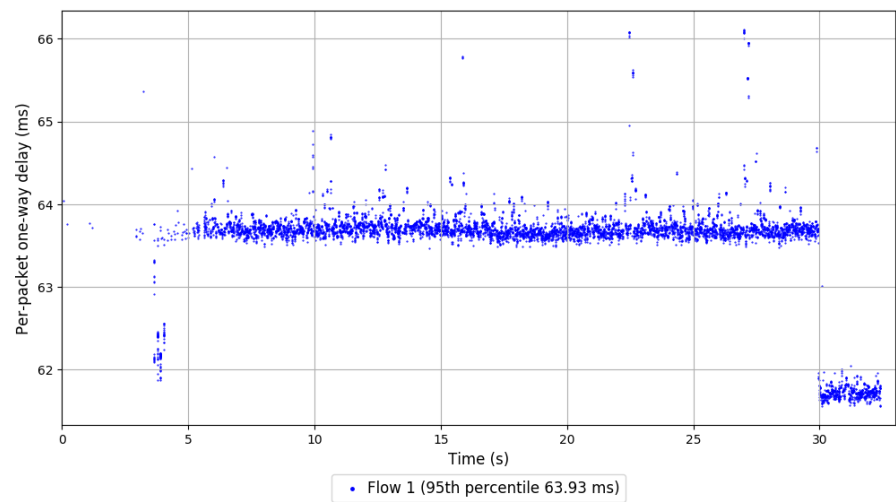
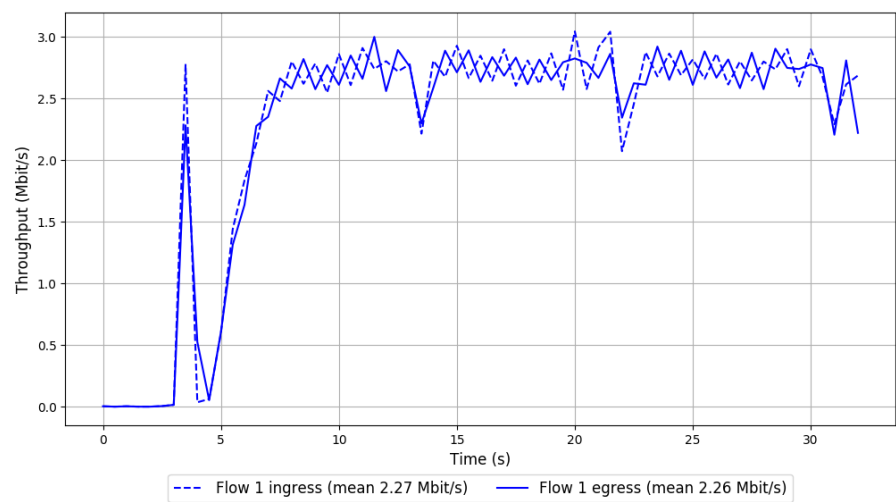
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.47%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-21 08:57:23

End at: 2017-11-21 08:57:53

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.841 ms

Loss rate: 0.46%

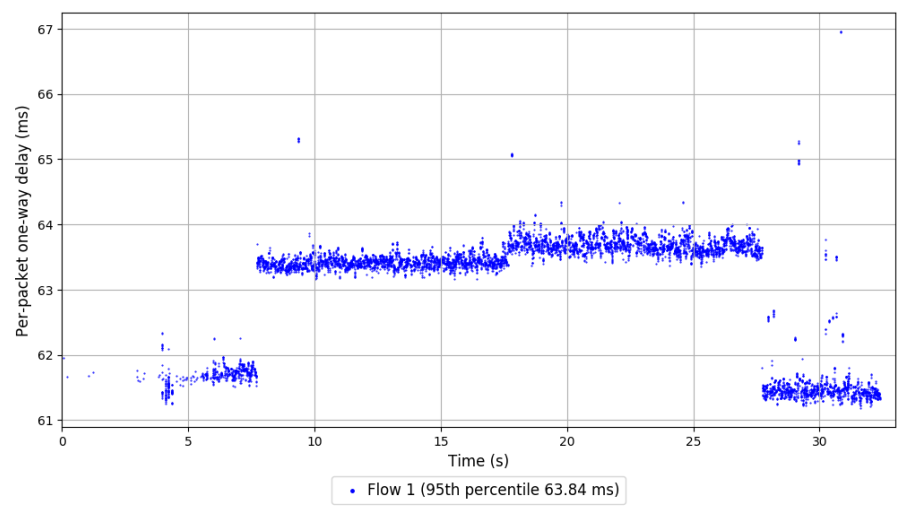
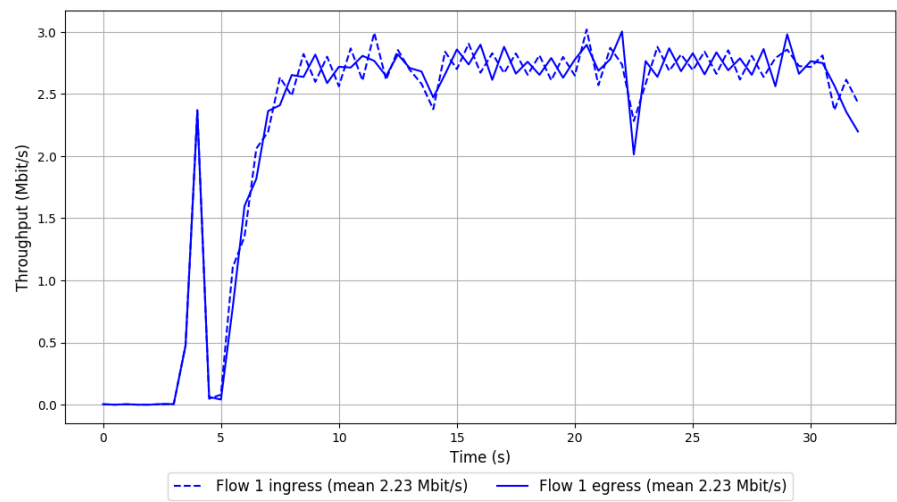
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 63.841 ms

Loss rate: 0.46%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-21 09:07:53

End at: 2017-11-21 09:08:23

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 61.825 ms

Loss rate: 0.45%

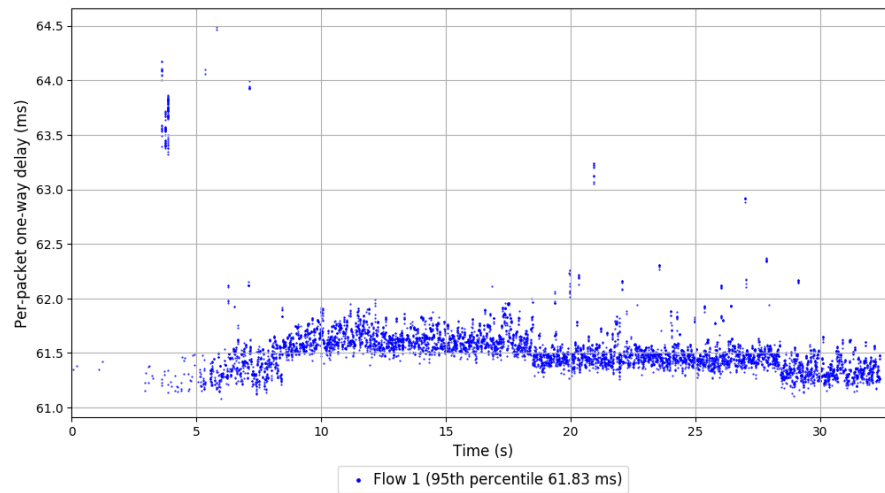
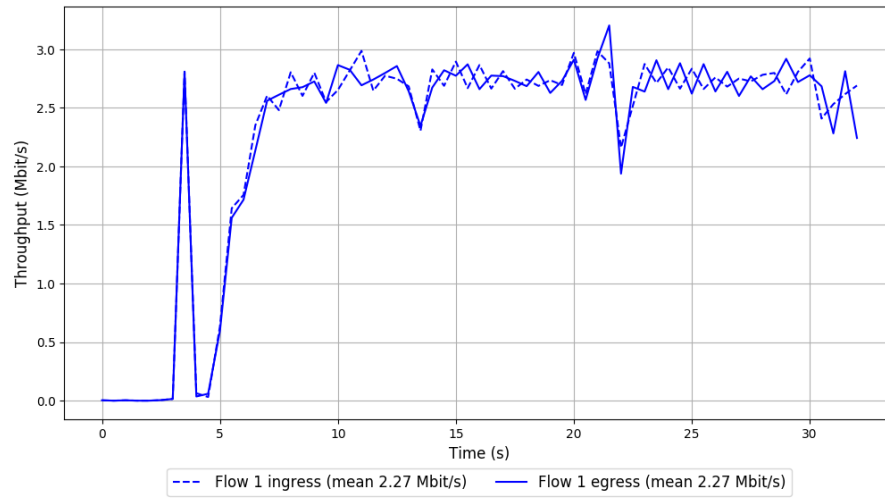
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 61.825 ms

Loss rate: 0.45%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-21 09:18:22

End at: 2017-11-21 09:18:52

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.785 ms

Loss rate: 0.44%

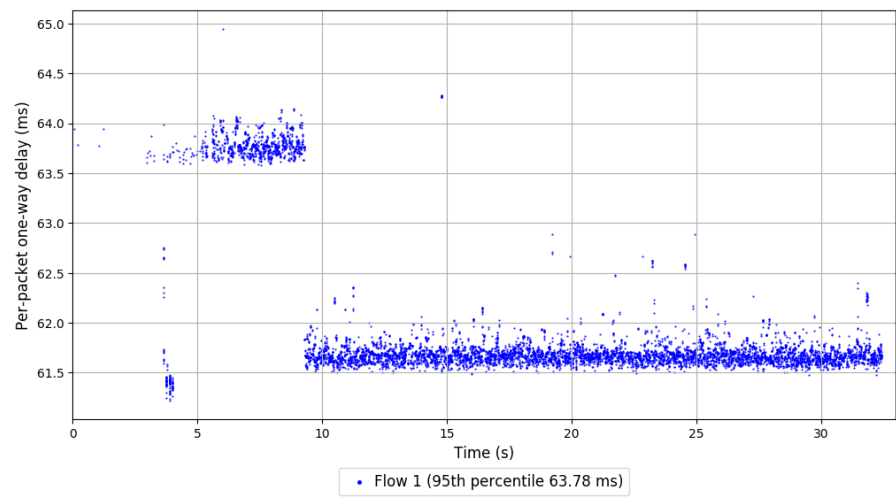
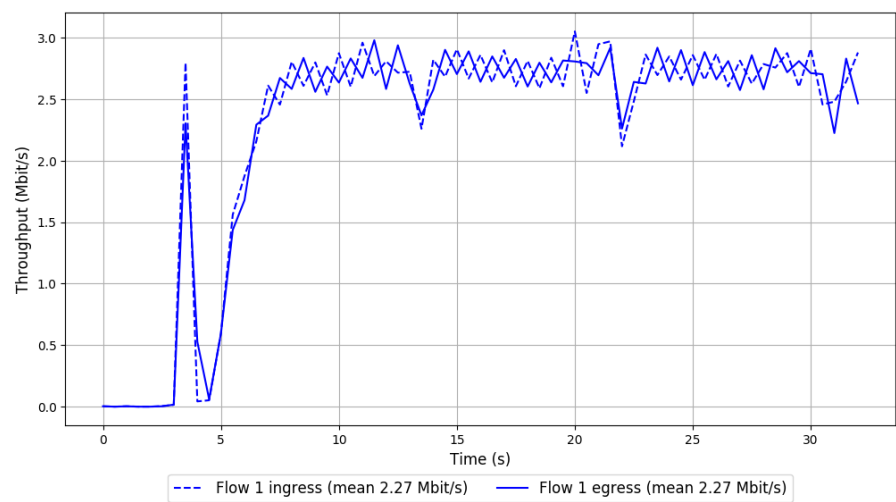
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.785 ms

Loss rate: 0.44%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 09:28:41

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

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.748 ms

Loss rate: 0.50%

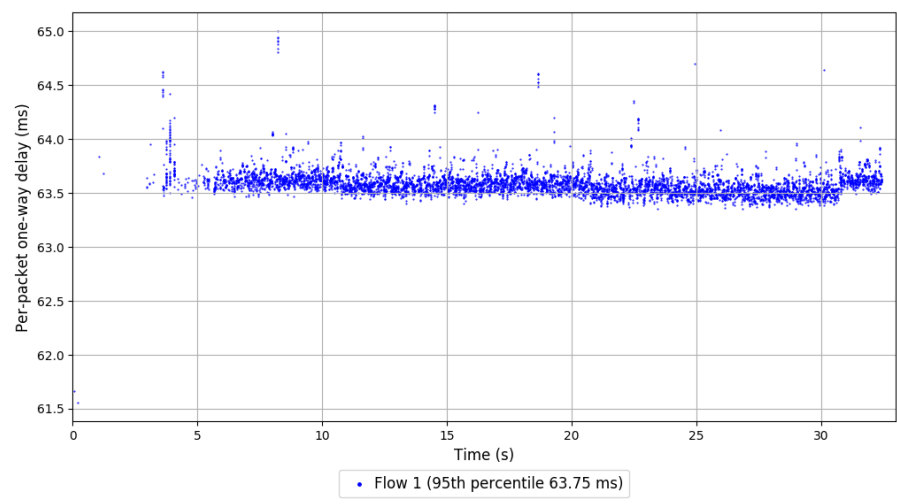
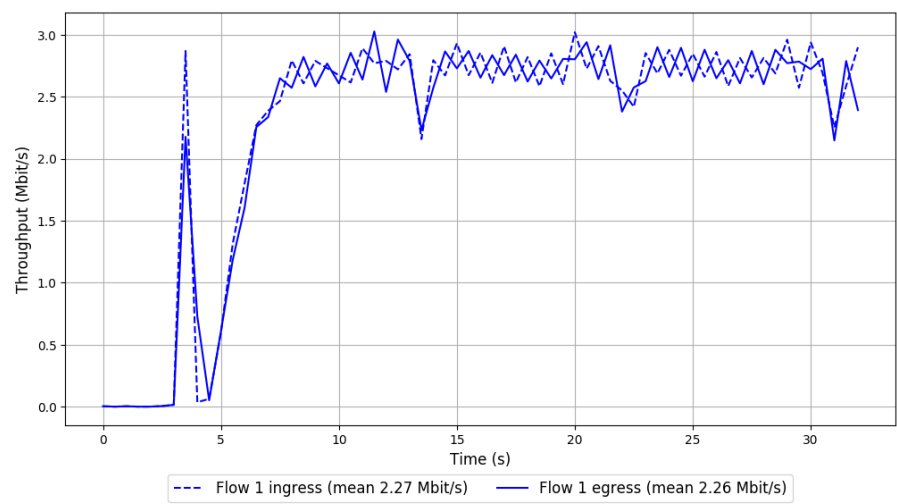
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.748 ms

Loss rate: 0.50%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-11-21 07:58:38

End at: 2017-11-21 07:59:08

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.866 ms

Loss rate: 0.67%

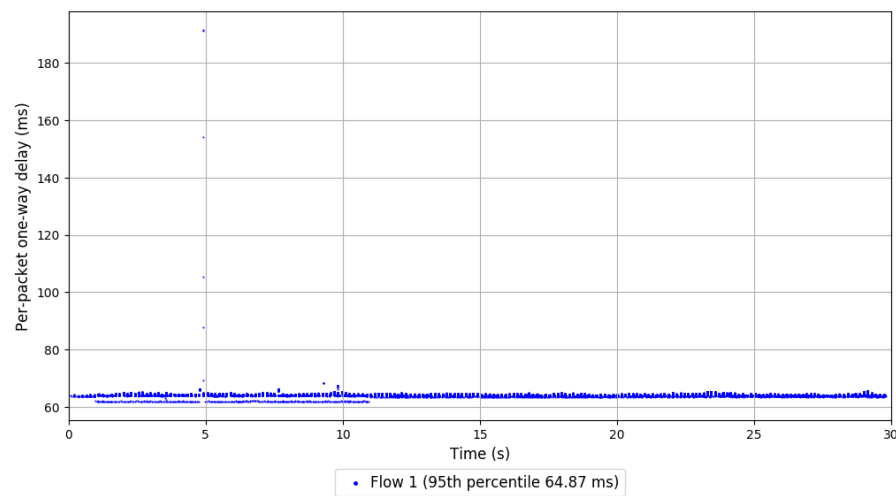
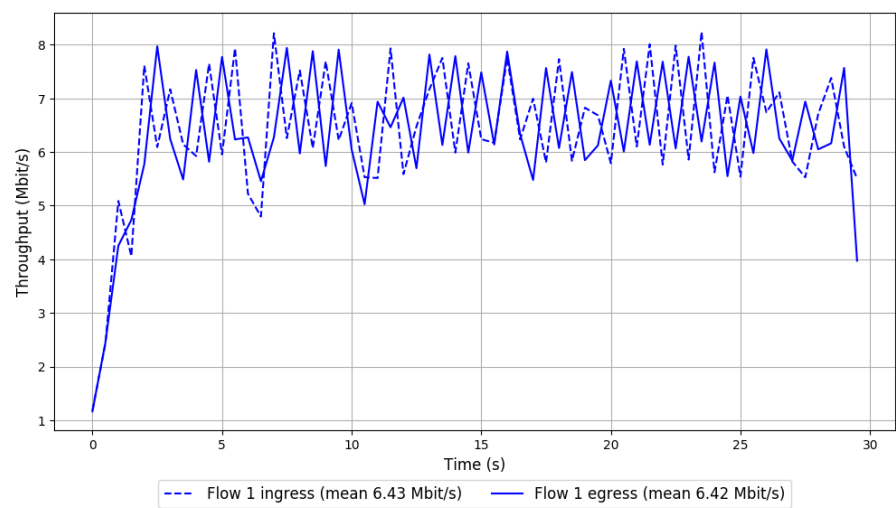
-- Flow 1:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.866 ms

Loss rate: 0.67%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

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

End at: 2017-11-21 08:09:19

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

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

Loss rate: 0.59%

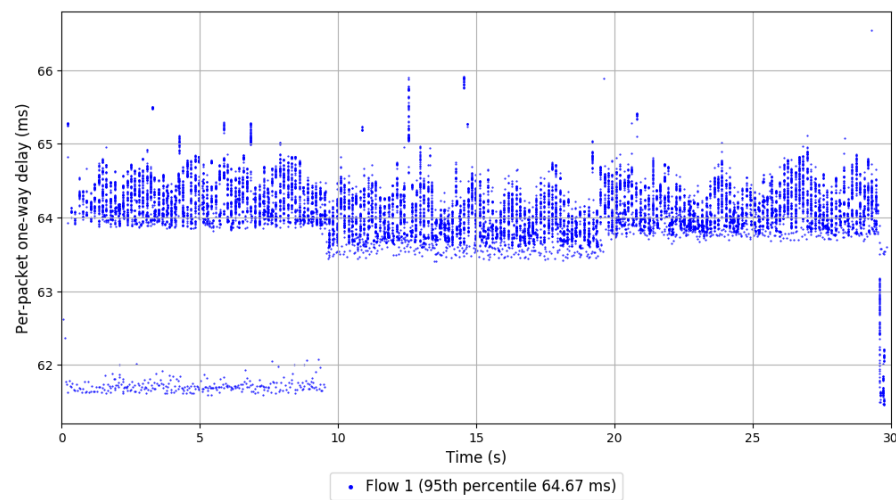
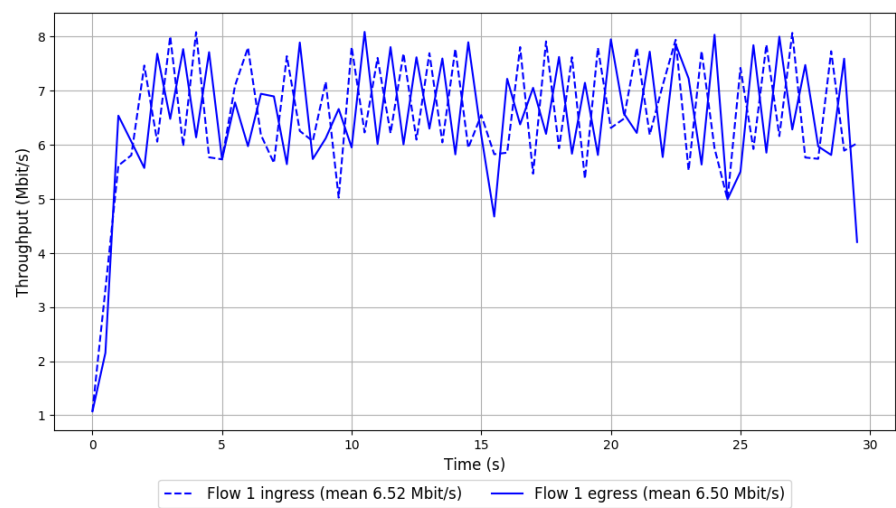
-- Flow 1:

Average throughput: 6.50 Mbit/s

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

Loss rate: 0.59%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-21 08:19:35

End at: 2017-11-21 08:20:05

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 64.568 ms

Loss rate: 0.75%

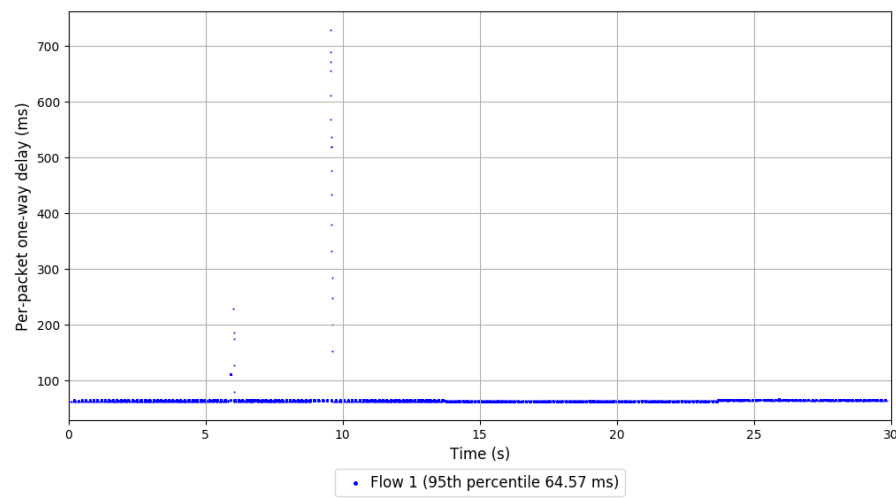
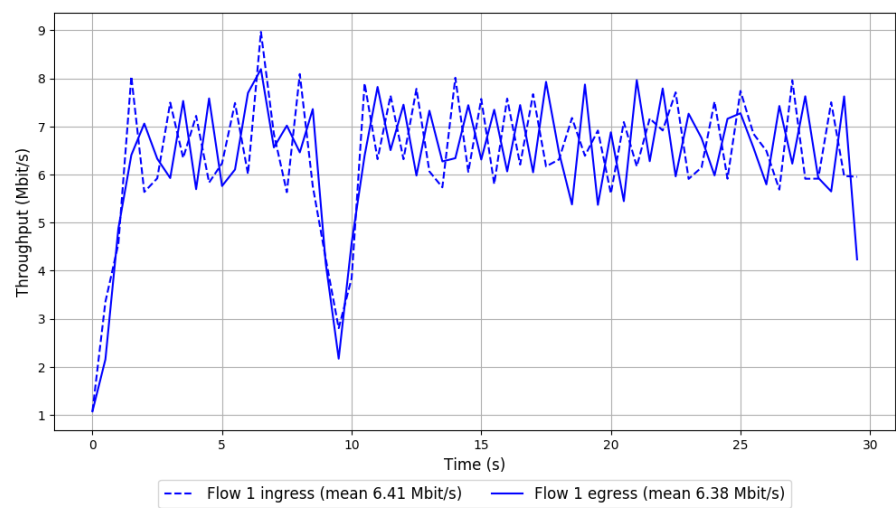
-- Flow 1:

Average throughput: 6.38 Mbit/s

95th percentile per-packet one-way delay: 64.568 ms

Loss rate: 0.75%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-21 08:30:09

End at: 2017-11-21 08:30:39

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.439 ms

Loss rate: 0.16%

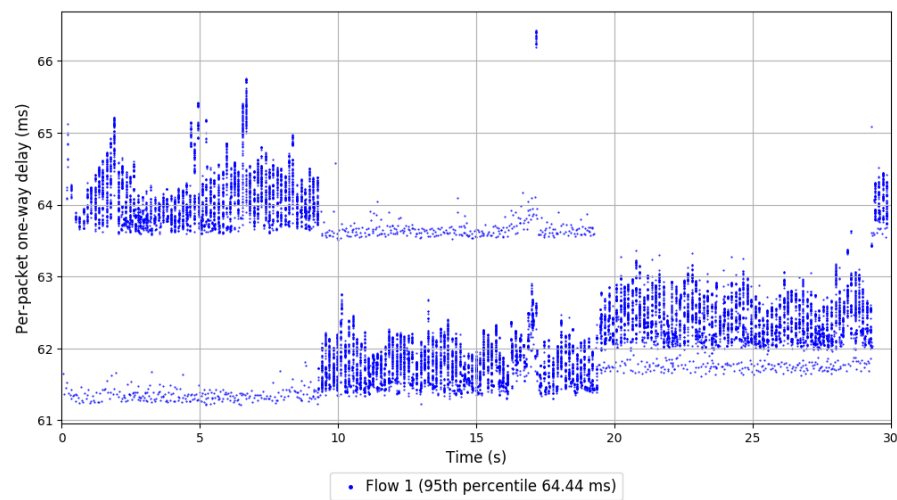
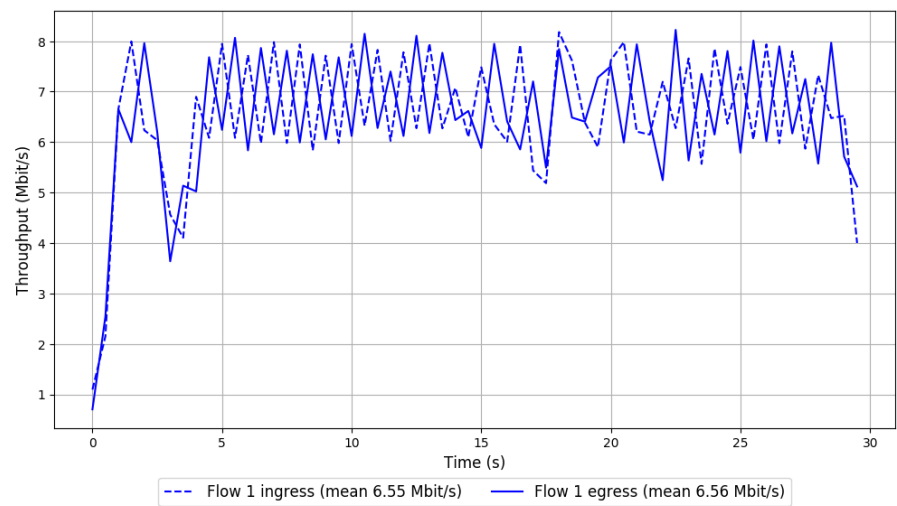
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 64.439 ms

Loss rate: 0.16%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-21 08:40:36

End at: 2017-11-21 08:41:06

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.582 ms

Loss rate: 0.57%

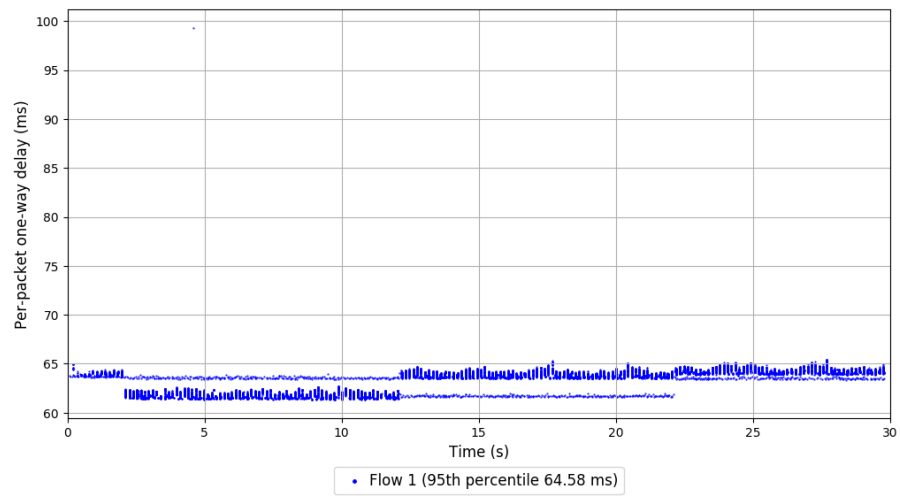
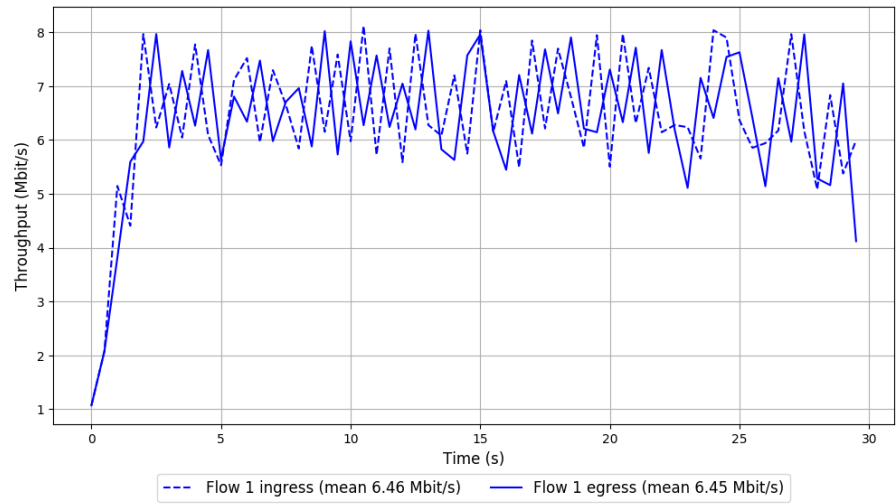
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.582 ms

Loss rate: 0.57%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-21 08:51:19

End at: 2017-11-21 08:51:49

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.349 ms

Loss rate: 0.64%

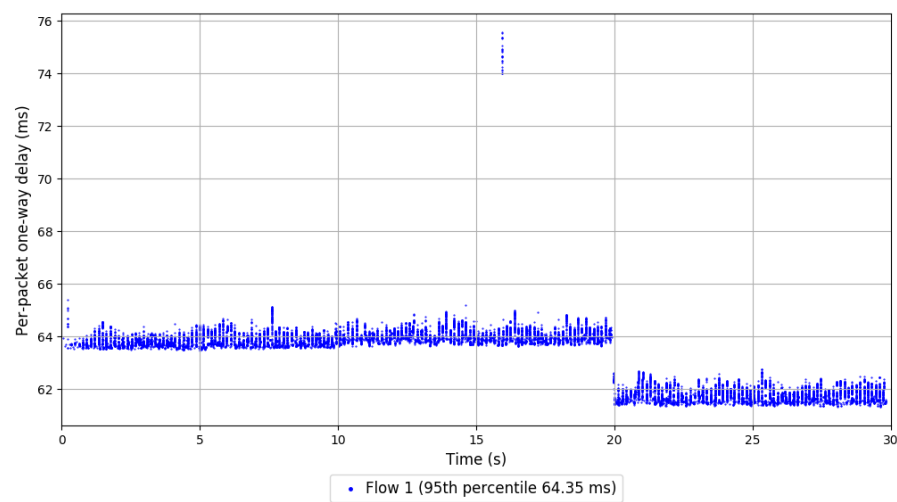
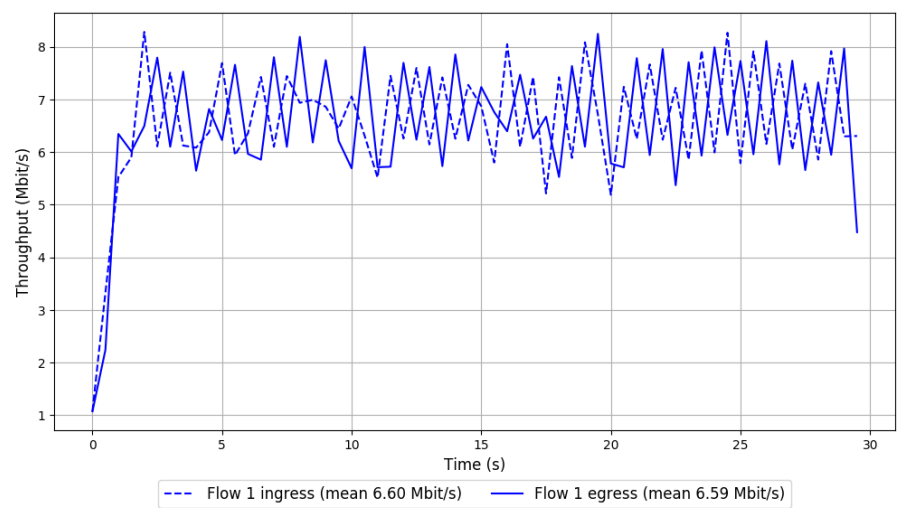
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.349 ms

Loss rate: 0.64%

Run 6: Report of Sprout — Data Link

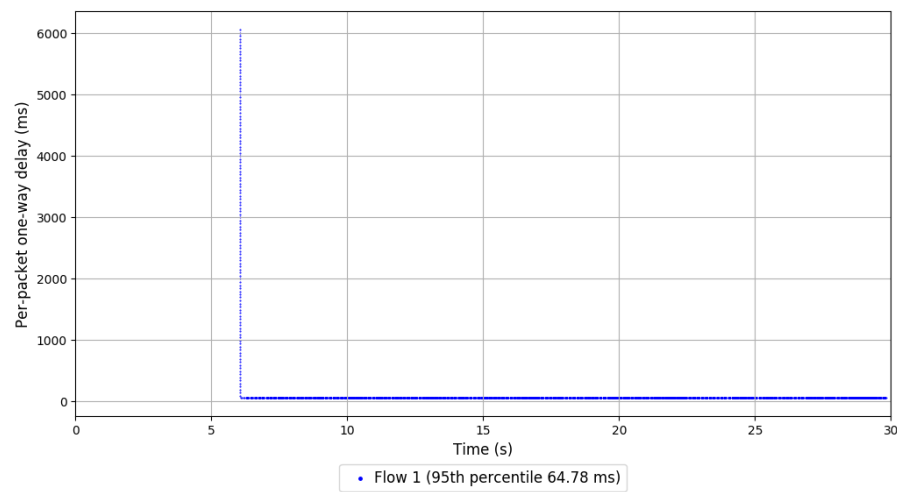
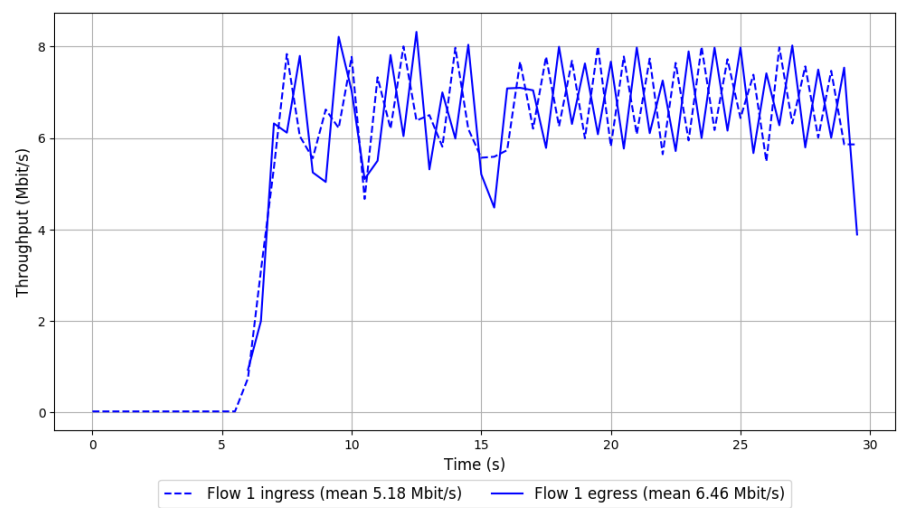


Run 7: Statistics of Sprout

Start at: 2017-11-21 09:01:47

End at: 2017-11-21 09:02:17

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 09:12:15

End at: 2017-11-21 09:12:45

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 64.674 ms

Loss rate: 1.00%

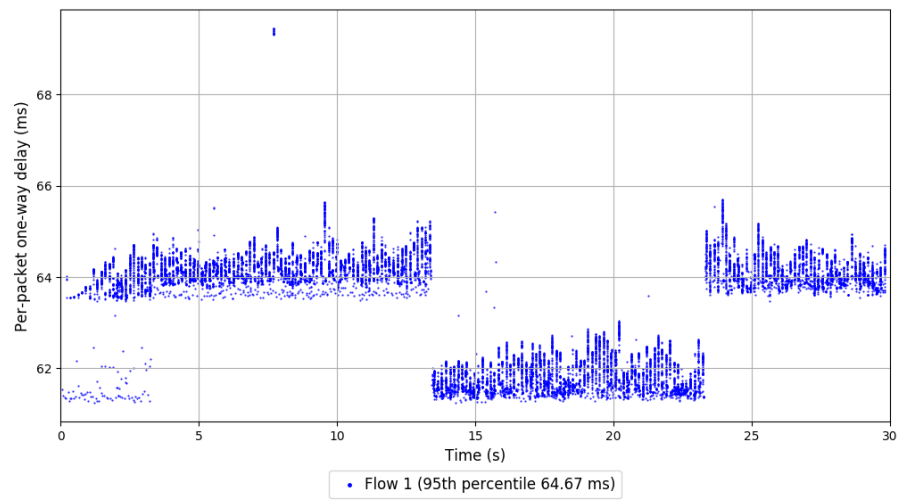
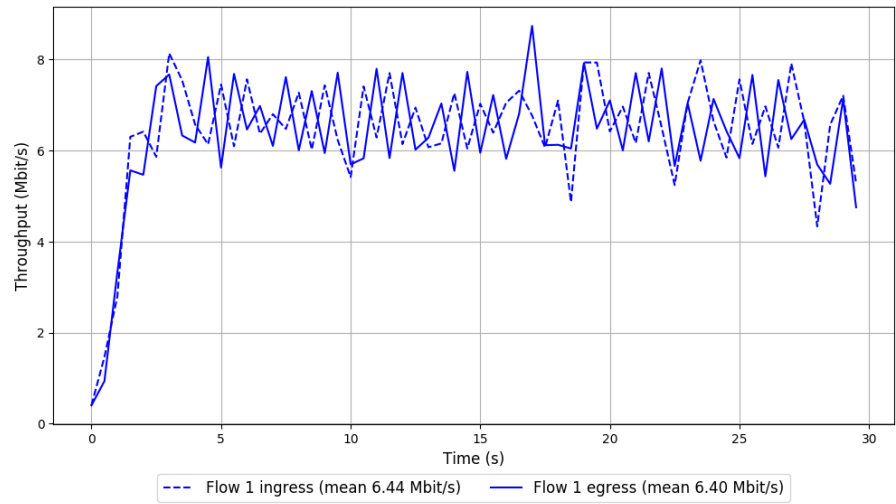
-- Flow 1:

Average throughput: 6.40 Mbit/s

95th percentile per-packet one-way delay: 64.674 ms

Loss rate: 1.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-21 09:22:38

End at: 2017-11-21 09:23:08

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.150 ms

Loss rate: 0.70%

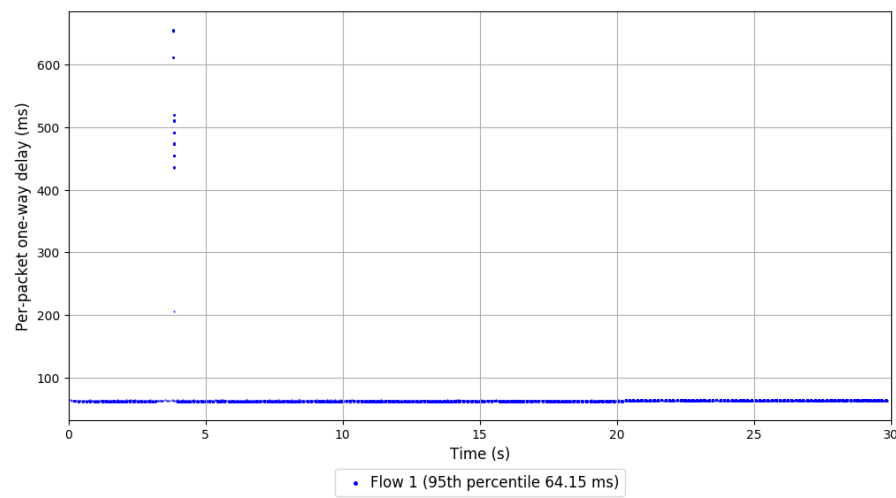
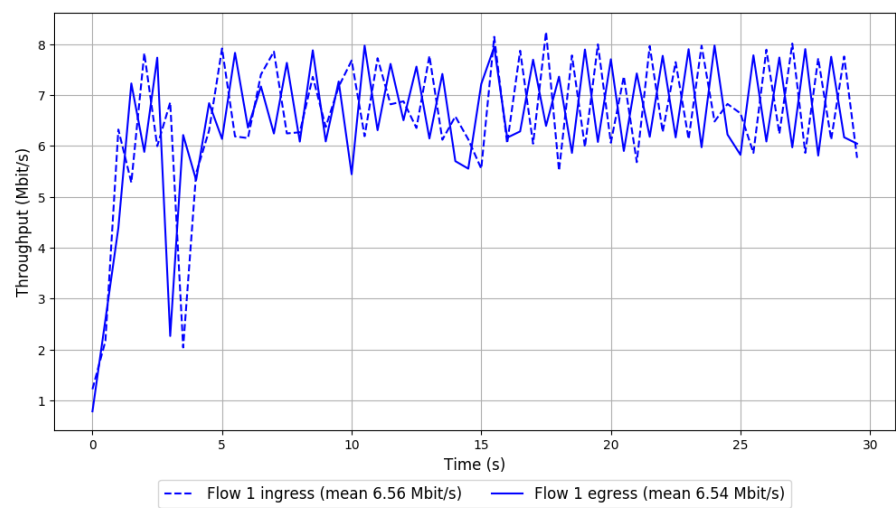
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.150 ms

Loss rate: 0.70%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 09:33:06

End at: 2017-11-21 09:33:36

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.242 ms

Loss rate: 0.64%

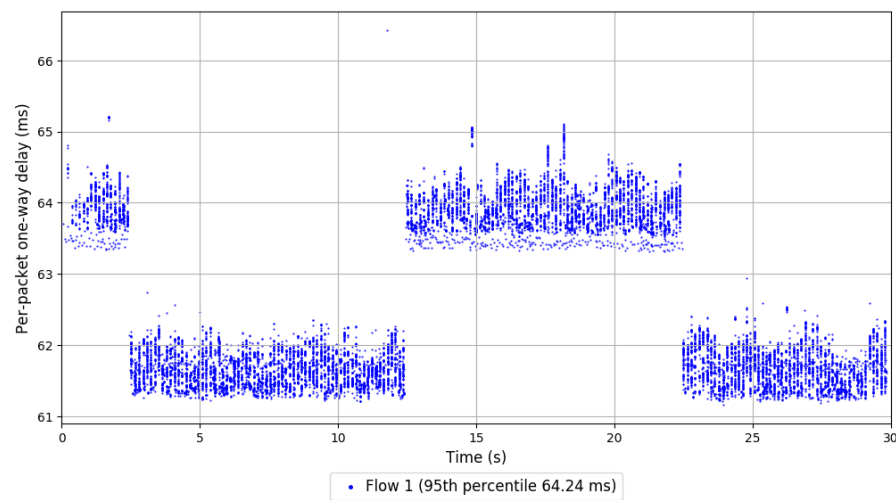
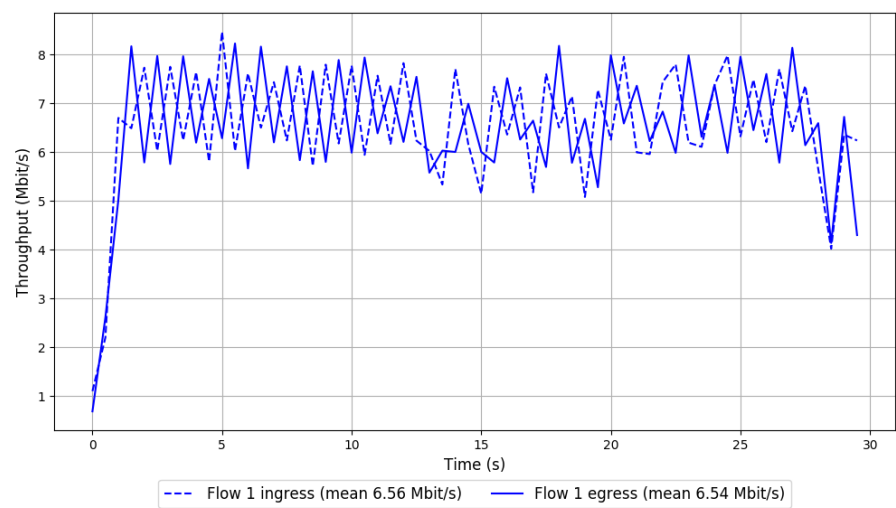
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.242 ms

Loss rate: 0.64%

Run 10: Report of Sprout — Data Link

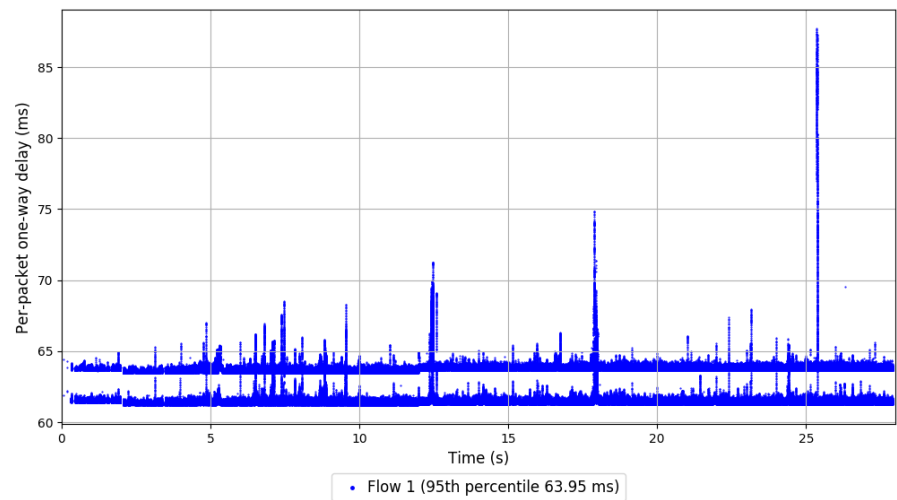
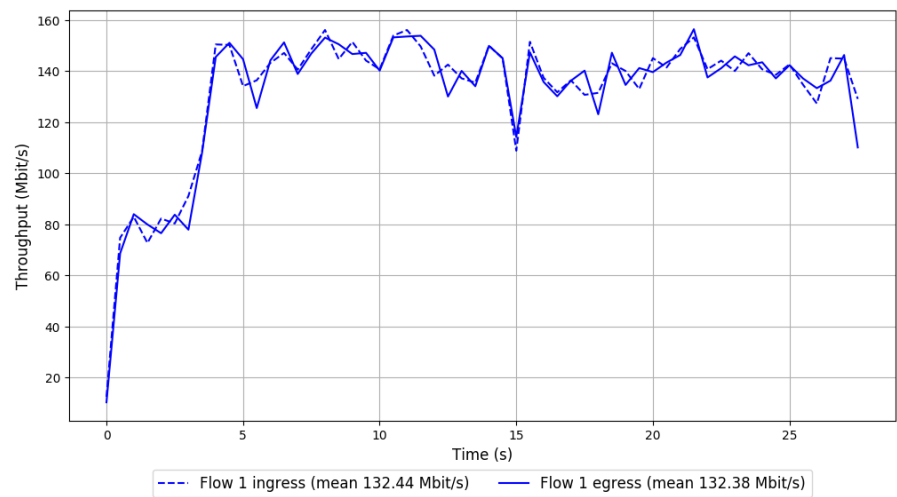


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 07:56:55
End at: 2017-11-21 07:57:25

# Below is generated by plot.py at 2017-11-21 11:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.38 Mbit/s
95th percentile per-packet one-way delay: 63.947 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 132.38 Mbit/s
95th percentile per-packet one-way delay: 63.947 ms
Loss rate: 0.50%
```


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

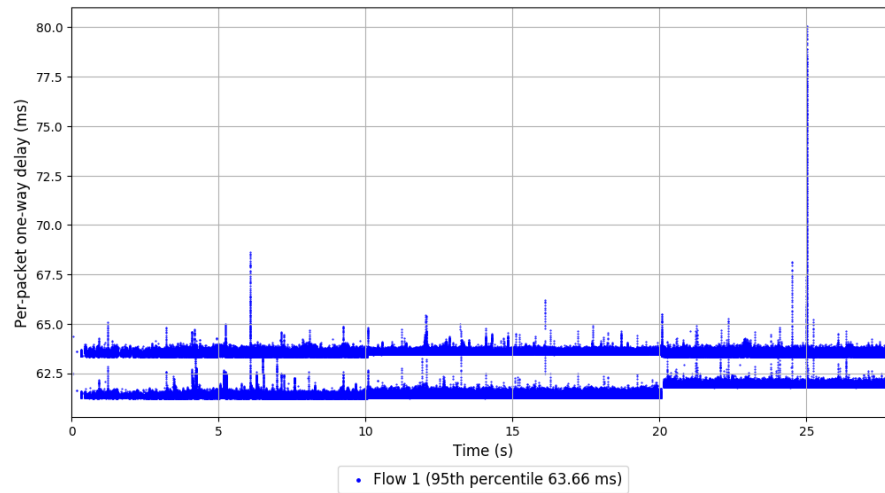
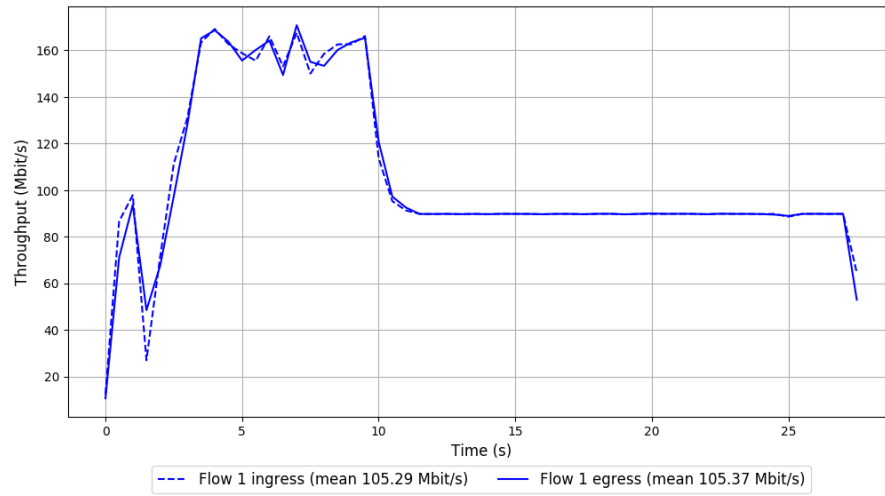


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 08:07:06
End at: 2017-11-21 08:07:36

# Below is generated by plot.py at 2017-11-21 11:46:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 105.37 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 105.37 Mbit/s
95th percentile per-packet one-way delay: 63.656 ms
Loss rate: 0.39%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 08:17:41

End at: 2017-11-21 08:18:11

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.85 Mbit/s

95th percentile per-packet one-way delay: 64.025 ms

Loss rate: 0.18%

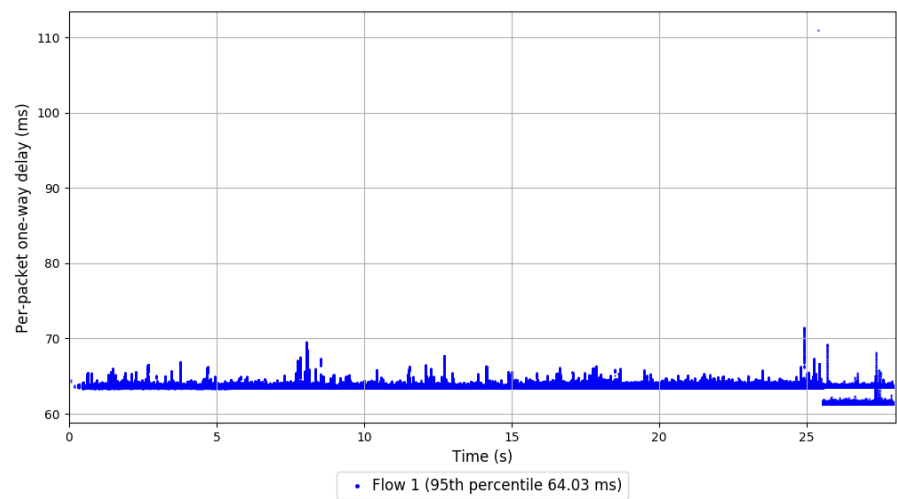
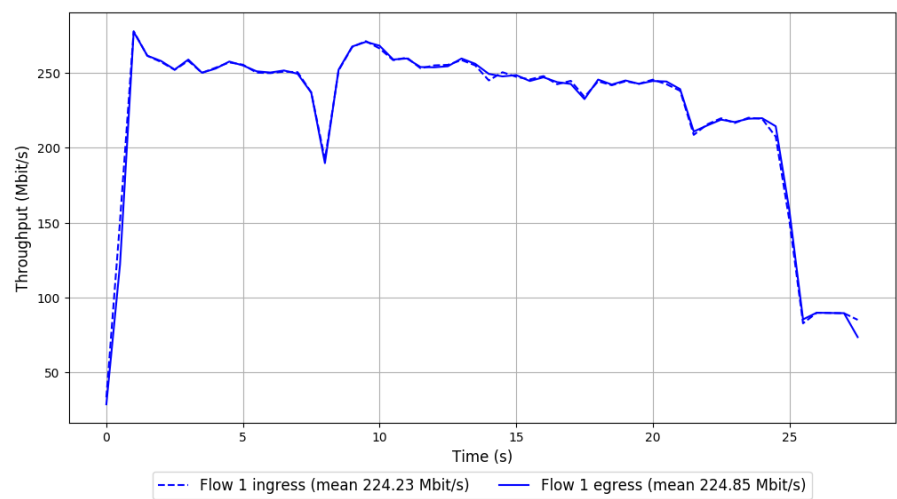
-- Flow 1:

Average throughput: 224.85 Mbit/s

95th percentile per-packet one-way delay: 64.025 ms

Loss rate: 0.18%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 08:28:23

End at: 2017-11-21 08:28:53

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.80 Mbit/s

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

Loss rate: 0.91%

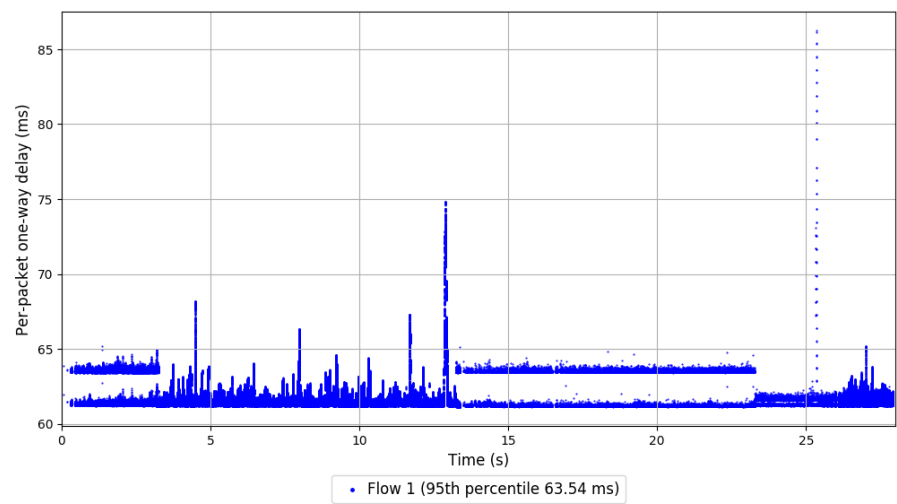
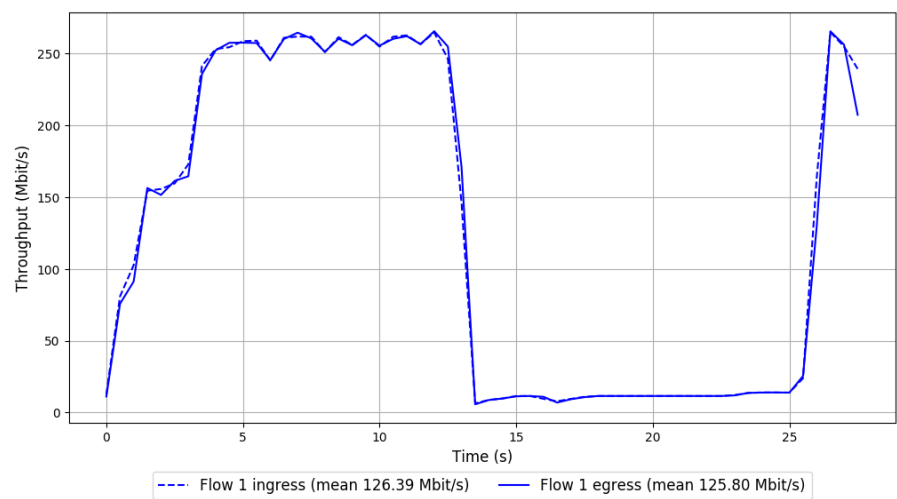
-- Flow 1:

Average throughput: 125.80 Mbit/s

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

Loss rate: 0.91%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 08:38:54

End at: 2017-11-21 08:39:24

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.53 Mbit/s

95th percentile per-packet one-way delay: 63.869 ms

Loss rate: 0.75%

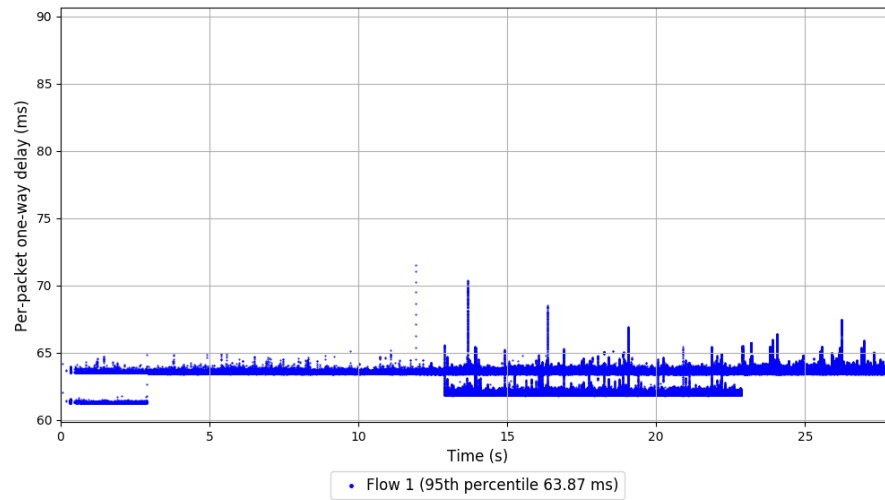
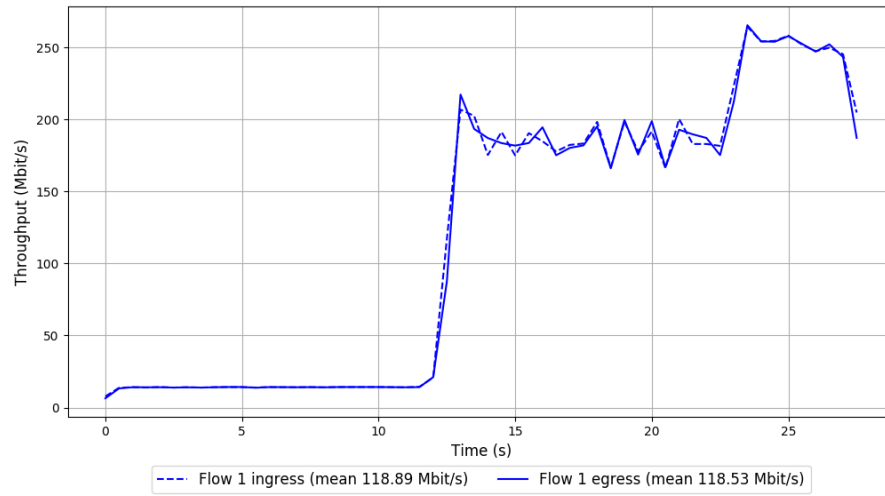
-- Flow 1:

Average throughput: 118.53 Mbit/s

95th percentile per-packet one-way delay: 63.869 ms

Loss rate: 0.75%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 08:49:35

End at: 2017-11-21 08:50:05

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.89 Mbit/s

95th percentile per-packet one-way delay: 63.874 ms

Loss rate: 0.41%

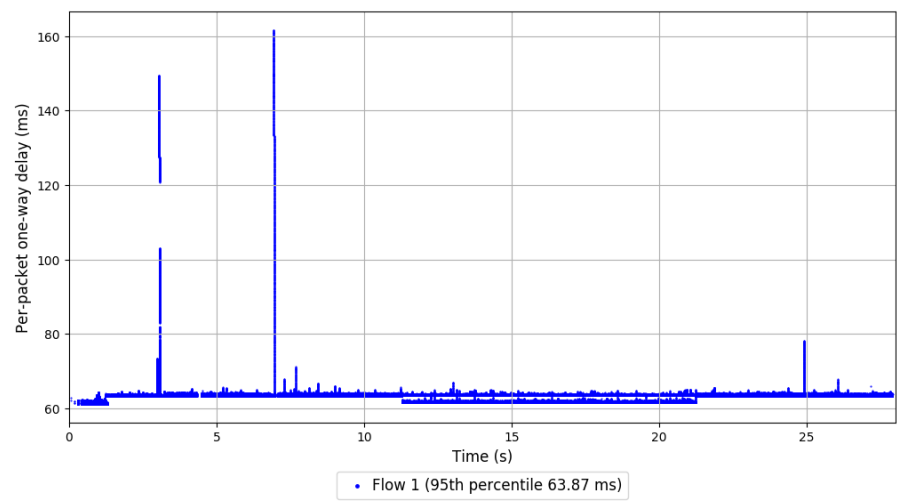
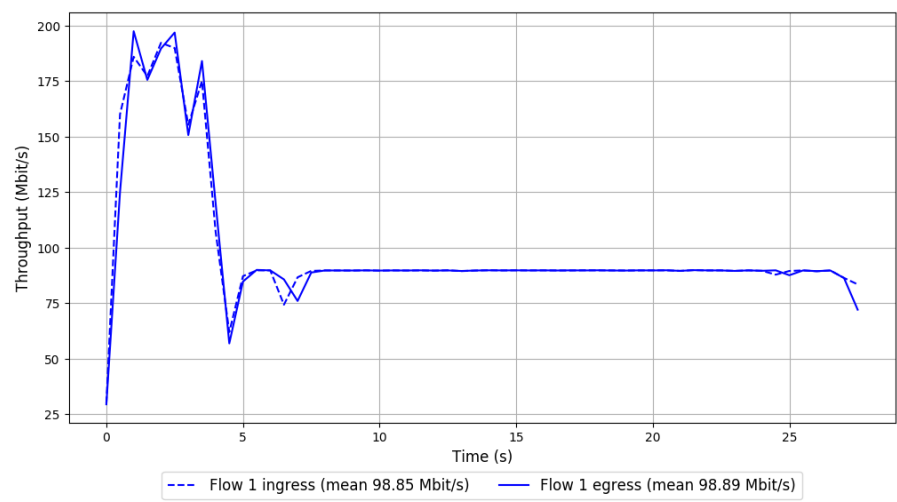
-- Flow 1:

Average throughput: 98.89 Mbit/s

95th percentile per-packet one-way delay: 63.874 ms

Loss rate: 0.41%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 09:00:08

End at: 2017-11-21 09:00:38

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.19 Mbit/s

95th percentile per-packet one-way delay: 64.470 ms

Loss rate: 0.61%

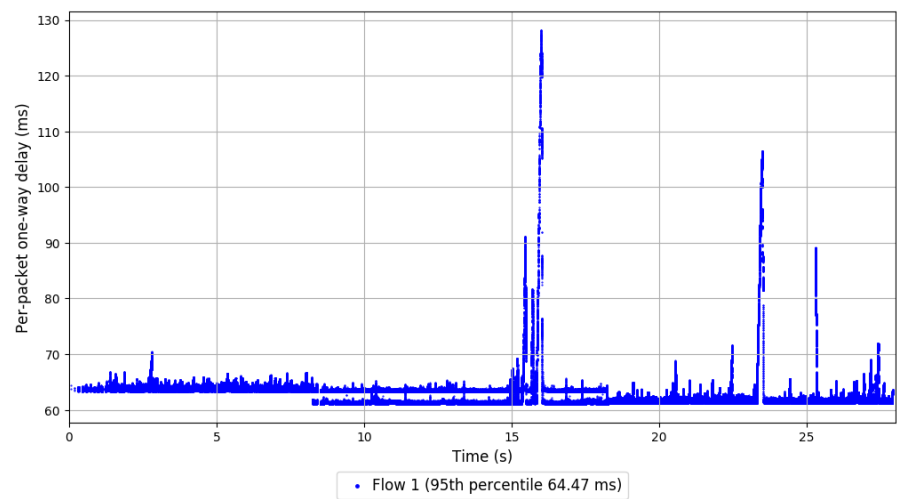
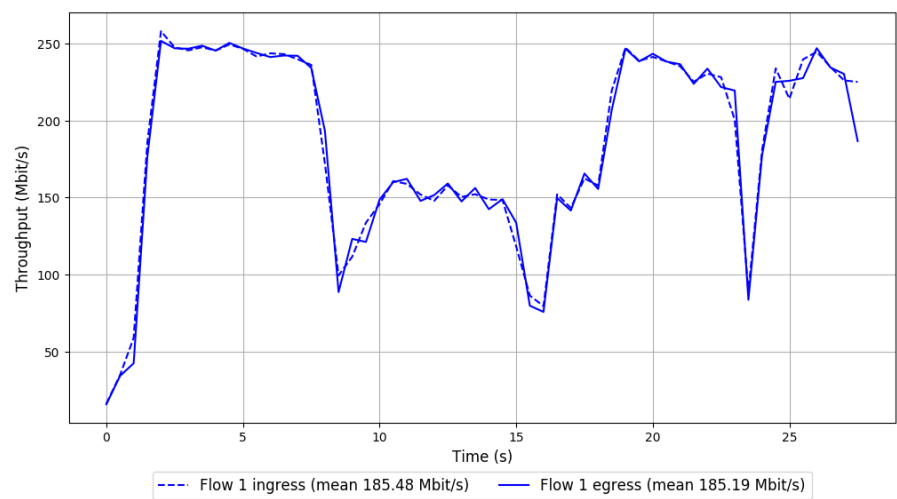
-- Flow 1:

Average throughput: 185.19 Mbit/s

95th percentile per-packet one-way delay: 64.470 ms

Loss rate: 0.61%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 09:10:37

End at: 2017-11-21 09:11:07

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 63.864 ms

Loss rate: 2.00%

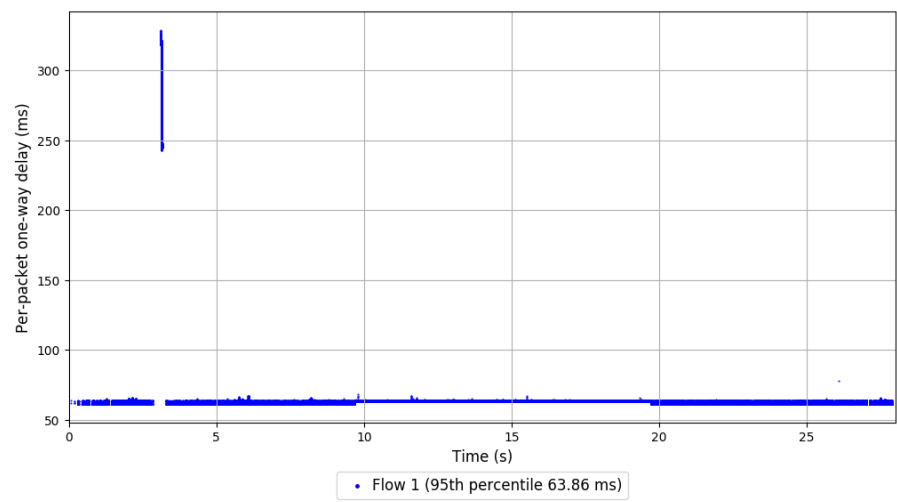
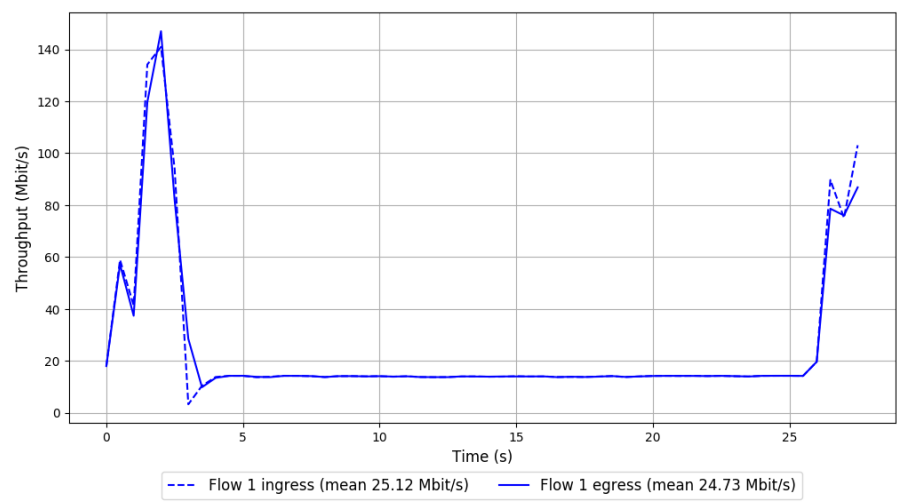
-- Flow 1:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 63.864 ms

Loss rate: 2.00%

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



Run 9: Statistics of TaoVA-100x

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

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

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 66.883 ms

Loss rate: 1.69%

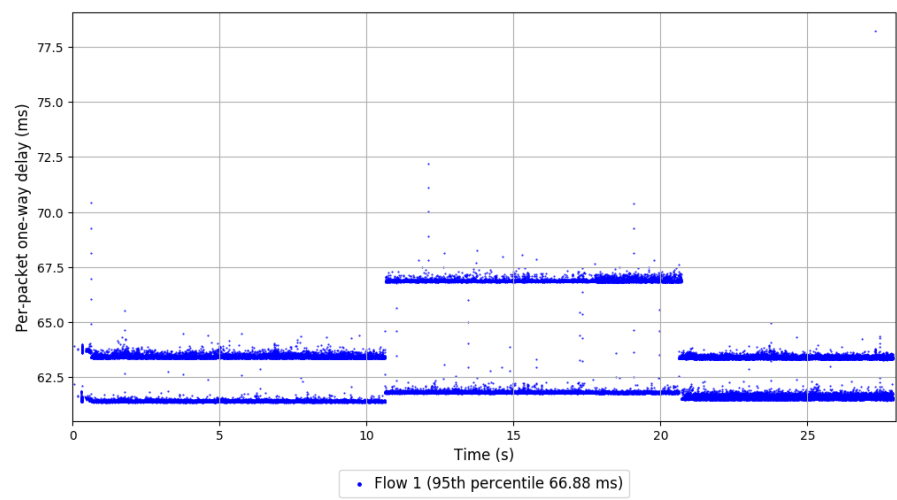
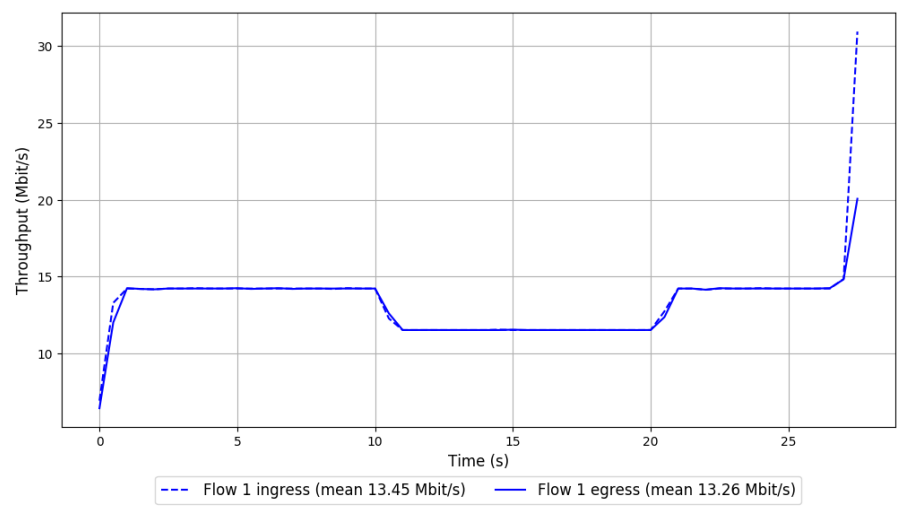
-- Flow 1:

Average throughput: 13.26 Mbit/s

95th percentile per-packet one-way delay: 66.883 ms

Loss rate: 1.69%

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

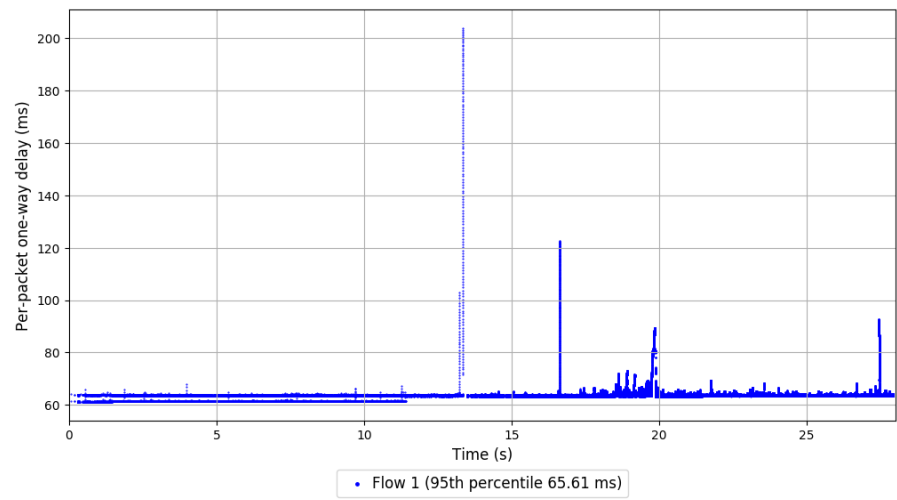
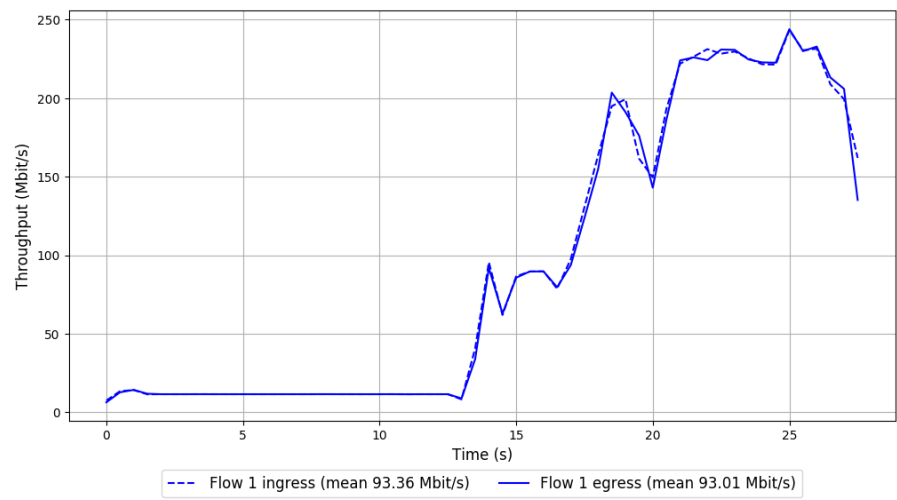


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 09:31:25
End at: 2017-11-21 09:31:55

# Below is generated by plot.py at 2017-11-21 11:46:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 65.613 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 65.613 ms
Loss rate: 0.82%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 07:52:04

End at: 2017-11-21 07:52:34

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 64.203 ms

Loss rate: 0.62%

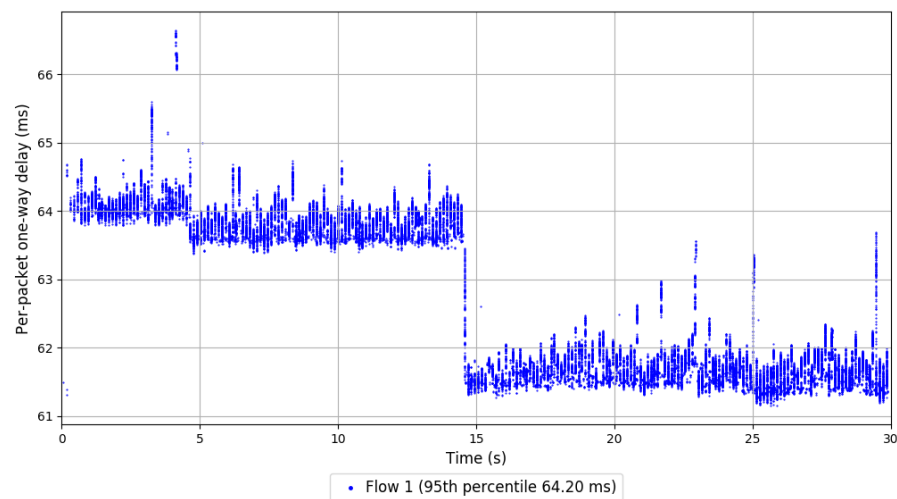
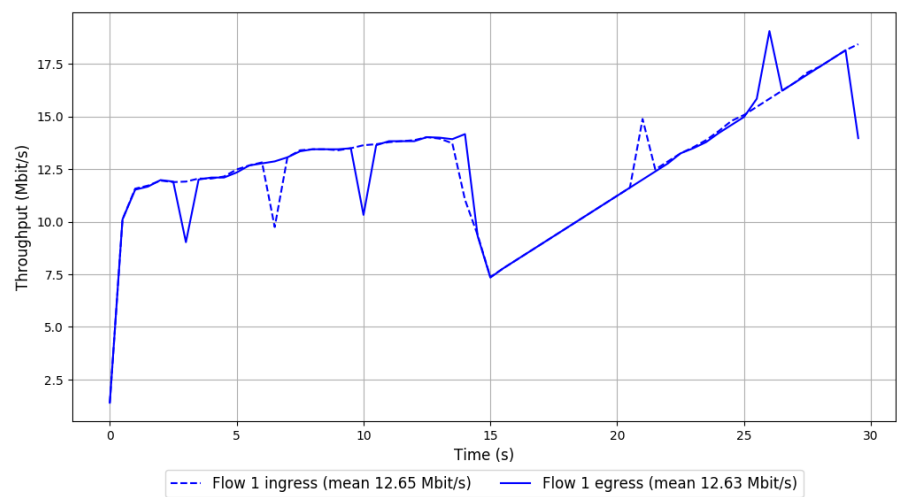
-- Flow 1:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 64.203 ms

Loss rate: 0.62%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 08:02:12

End at: 2017-11-21 08:02:42

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.93 Mbit/s

95th percentile per-packet one-way delay: 65.082 ms

Loss rate: 0.24%

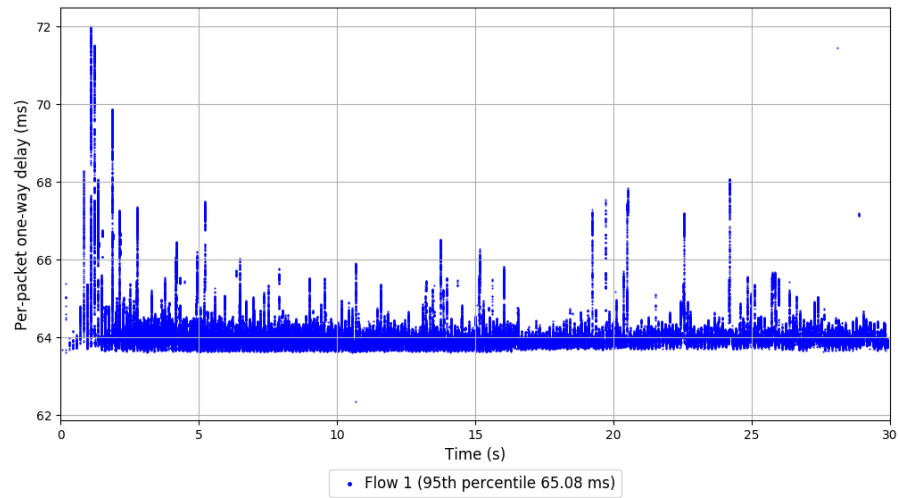
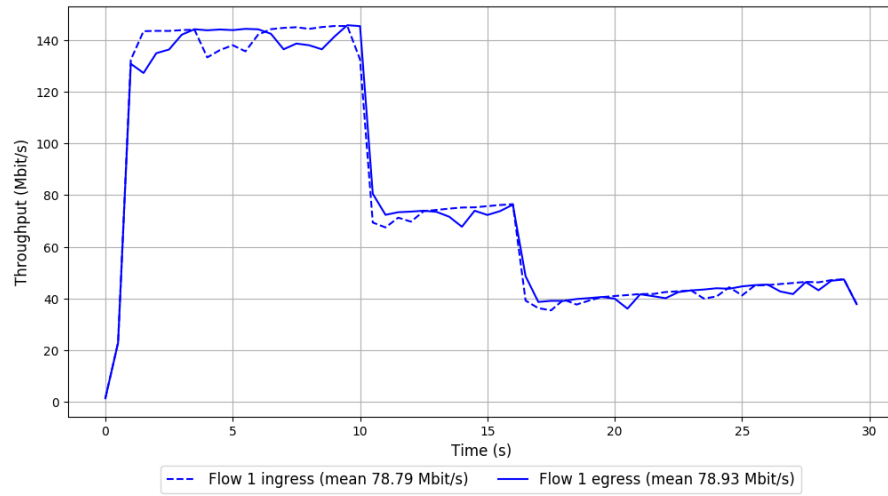
-- Flow 1:

Average throughput: 78.93 Mbit/s

95th percentile per-packet one-way delay: 65.082 ms

Loss rate: 0.24%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 08:12:48

End at: 2017-11-21 08:13:18

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 65.139 ms

Loss rate: 0.20%

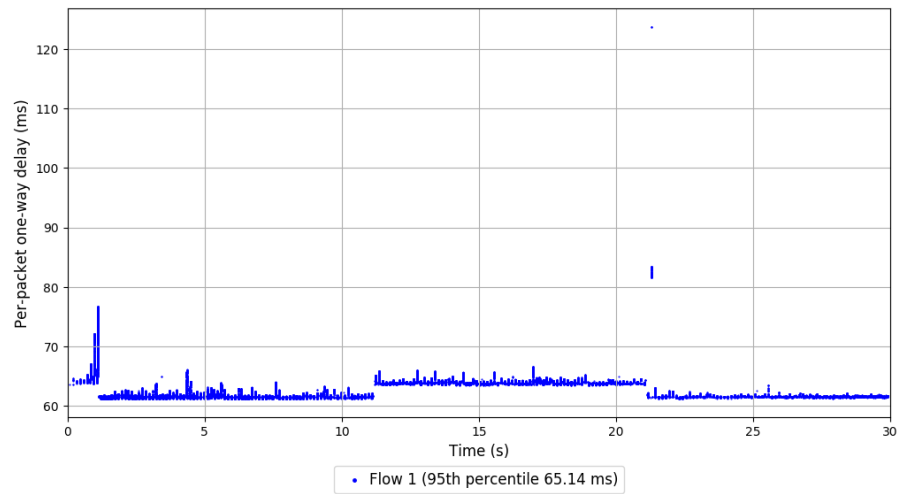
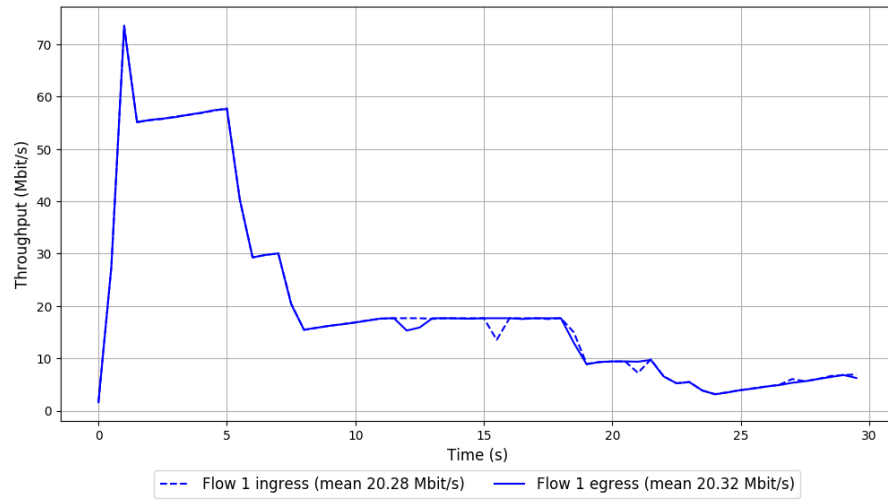
-- Flow 1:

Average throughput: 20.32 Mbit/s

95th percentile per-packet one-way delay: 65.139 ms

Loss rate: 0.20%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 08:23:31

End at: 2017-11-21 08:24:01

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.32 Mbit/s

95th percentile per-packet one-way delay: 64.807 ms

Loss rate: 0.42%

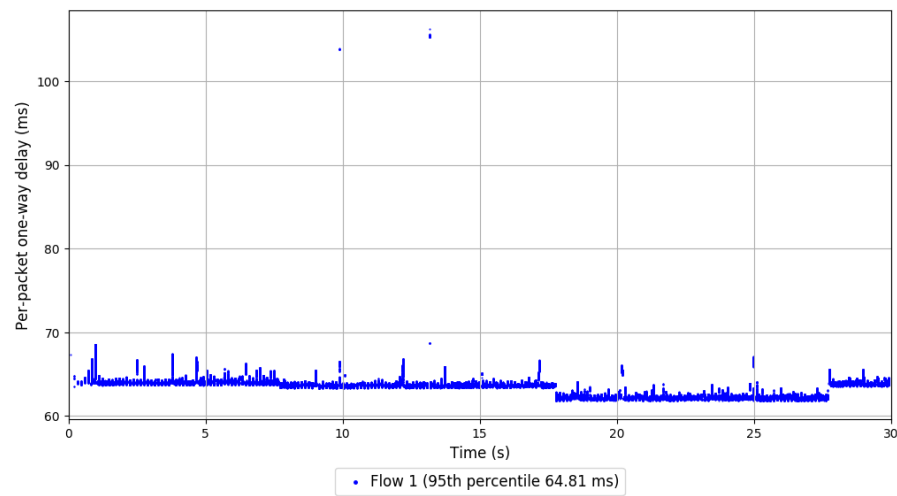
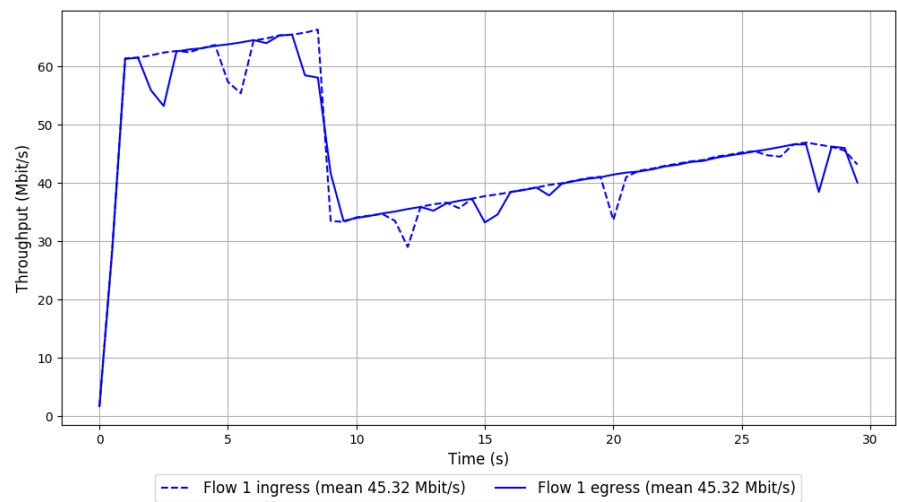
-- Flow 1:

Average throughput: 45.32 Mbit/s

95th percentile per-packet one-way delay: 64.807 ms

Loss rate: 0.42%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 08:34:00

End at: 2017-11-21 08:34:30

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.23 Mbit/s

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

Loss rate: 0.50%

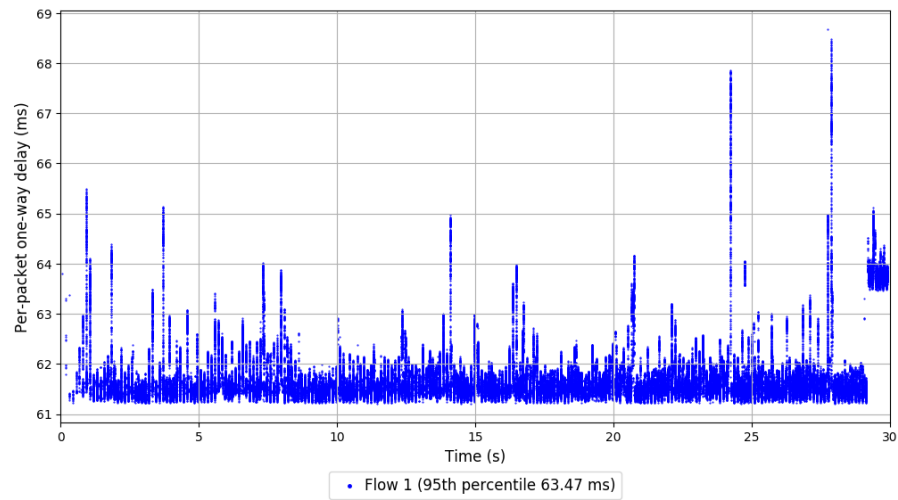
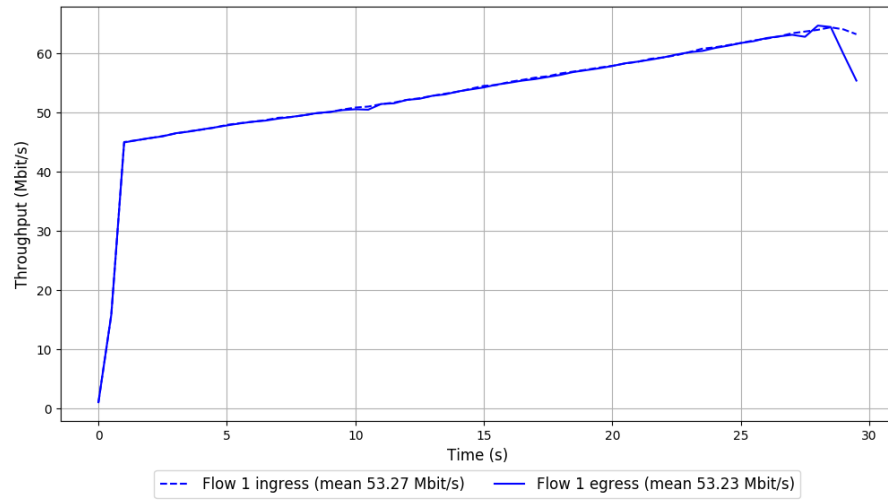
-- Flow 1:

Average throughput: 53.23 Mbit/s

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

Loss rate: 0.50%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 08:44:39

End at: 2017-11-21 08:45:09

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.98 Mbit/s

95th percentile per-packet one-way delay: 64.227 ms

Loss rate: 0.21%

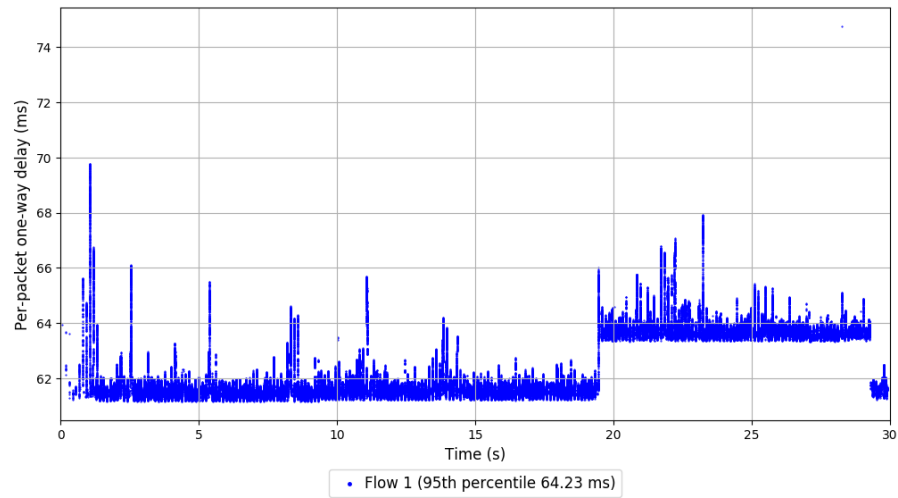
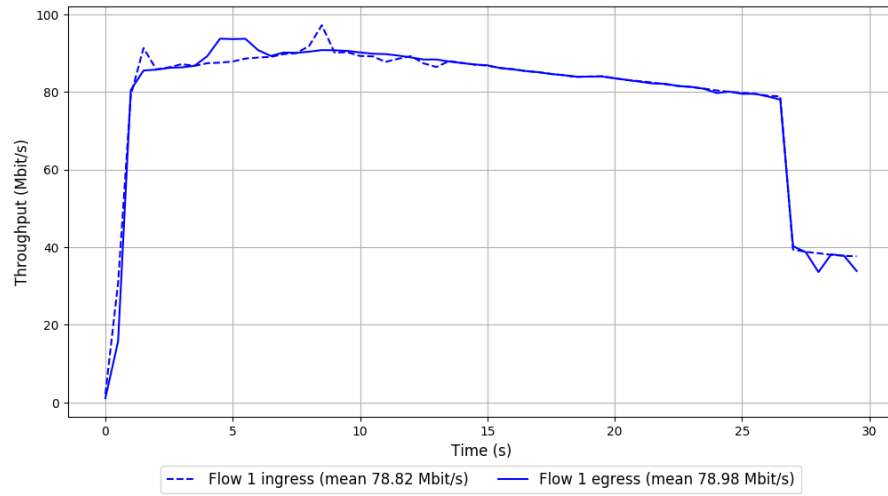
-- Flow 1:

Average throughput: 78.98 Mbit/s

95th percentile per-packet one-way delay: 64.227 ms

Loss rate: 0.21%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 08:55:13

End at: 2017-11-21 08:55:43

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.69 Mbit/s

95th percentile per-packet one-way delay: 65.604 ms

Loss rate: 0.37%

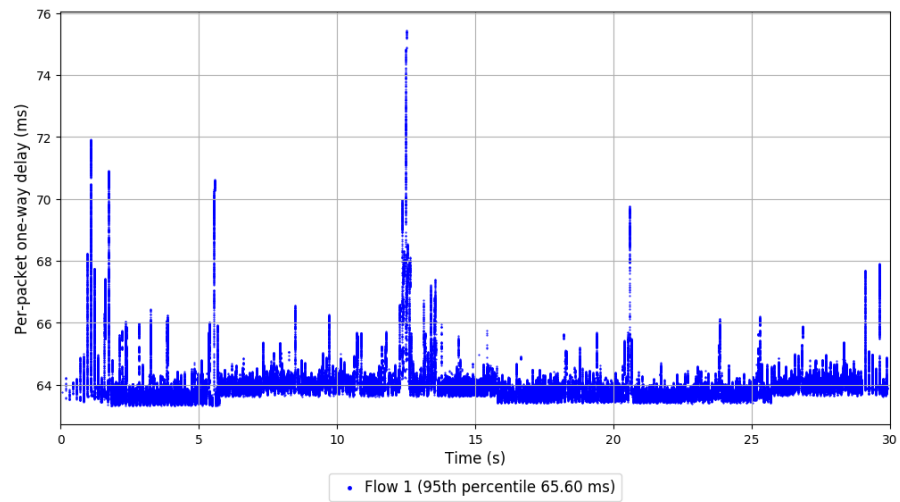
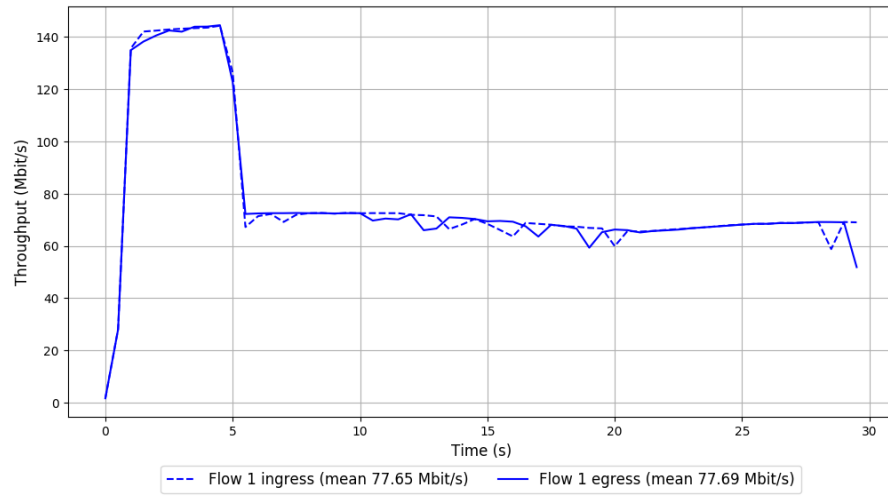
-- Flow 1:

Average throughput: 77.69 Mbit/s

95th percentile per-packet one-way delay: 65.604 ms

Loss rate: 0.37%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 09:05:45

End at: 2017-11-21 09:06:15

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 68.936 ms

Loss rate: 0.18%

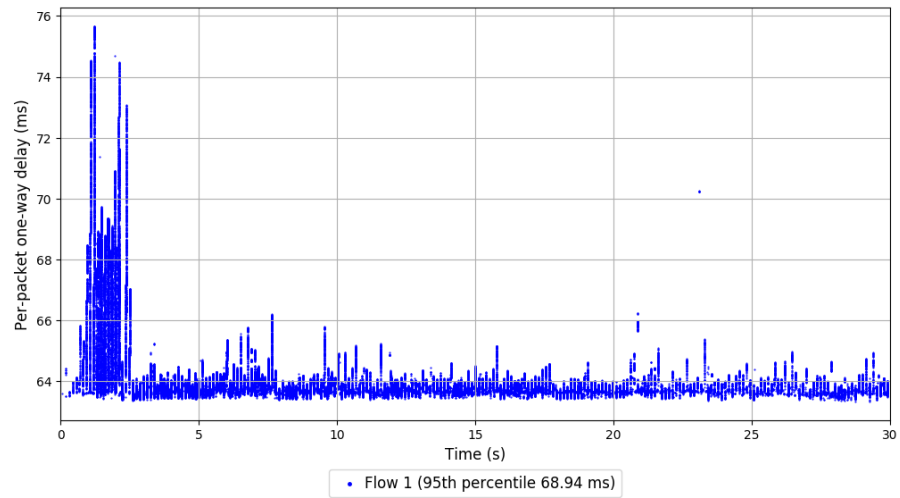
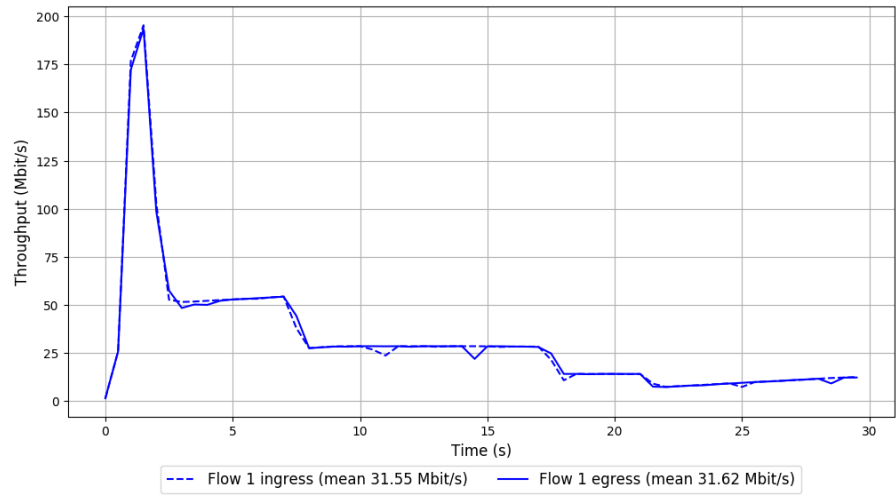
-- Flow 1:

Average throughput: 31.62 Mbit/s

95th percentile per-packet one-way delay: 68.936 ms

Loss rate: 0.18%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 09:16:11

End at: 2017-11-21 09:16:41

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.69 Mbit/s

95th percentile per-packet one-way delay: 70.564 ms

Loss rate: 0.46%

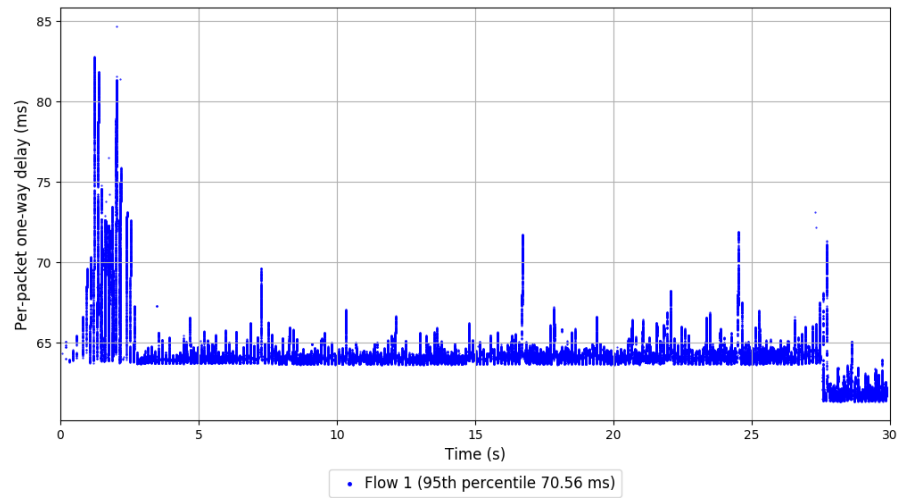
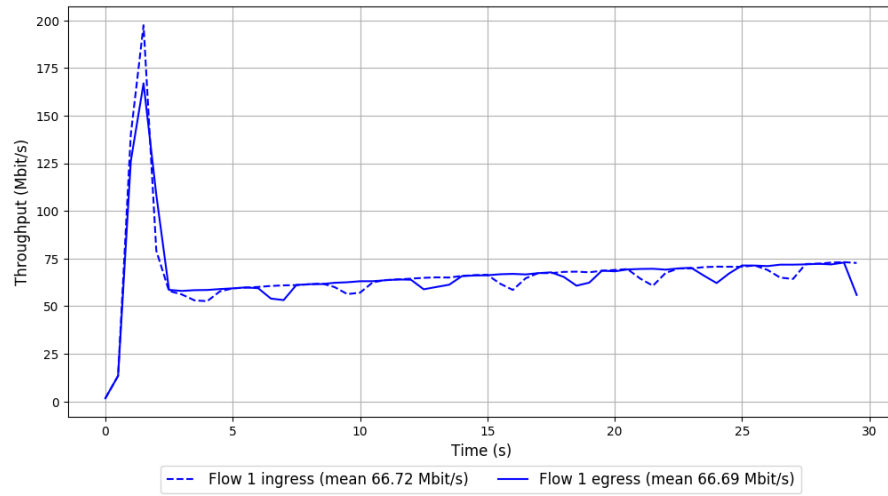
-- Flow 1:

Average throughput: 66.69 Mbit/s

95th percentile per-packet one-way delay: 70.564 ms

Loss rate: 0.46%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 09:26:32

End at: 2017-11-21 09:27:02

Below is generated by plot.py at 2017-11-21 11:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 63.984 ms

Loss rate: 0.13%

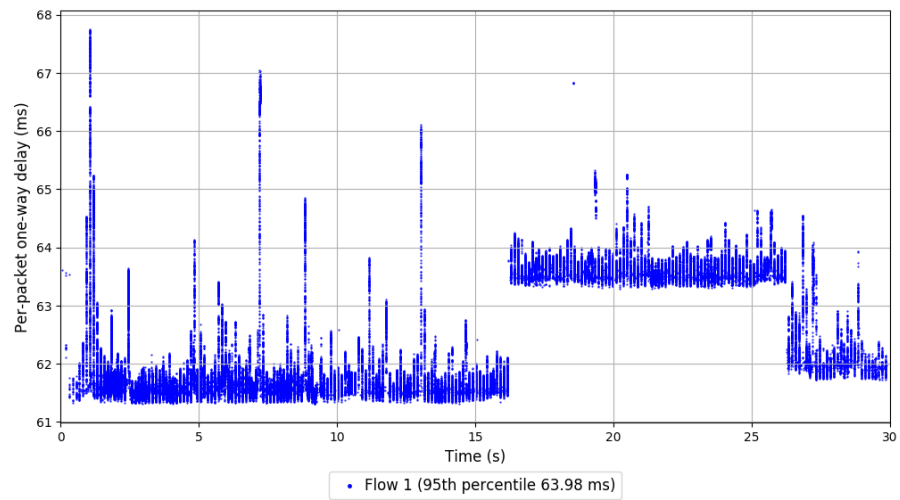
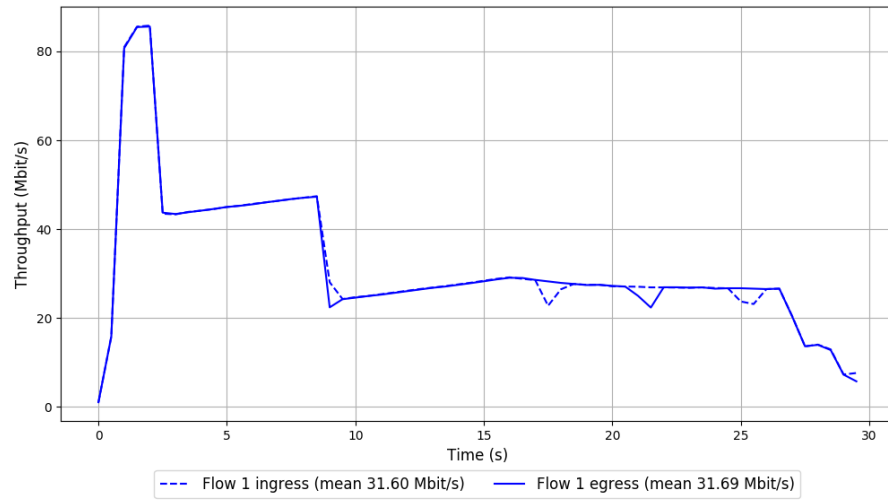
-- Flow 1:

Average throughput: 31.69 Mbit/s

95th percentile per-packet one-way delay: 63.984 ms

Loss rate: 0.13%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-21 07:57:44

End at: 2017-11-21 07:58:14

Below is generated by plot.py at 2017-11-21 11:50:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.13 Mbit/s

95th percentile per-packet one-way delay: 157.447 ms

Loss rate: 2.17%

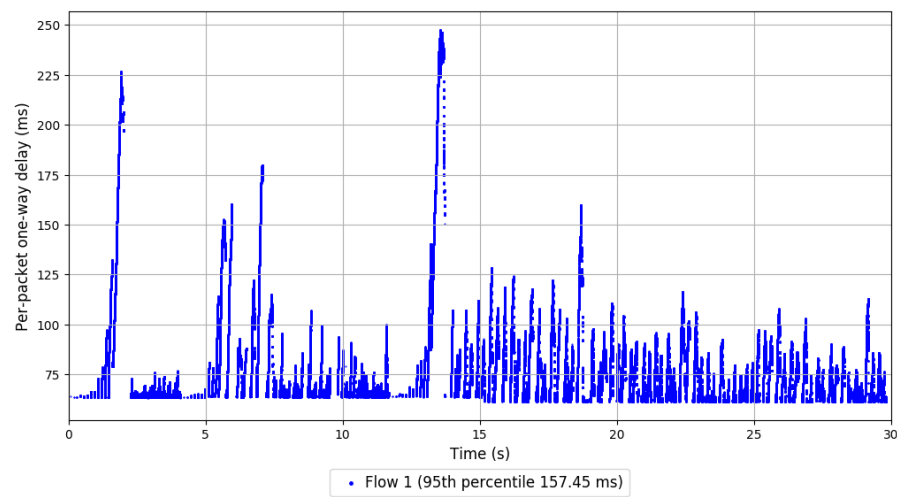
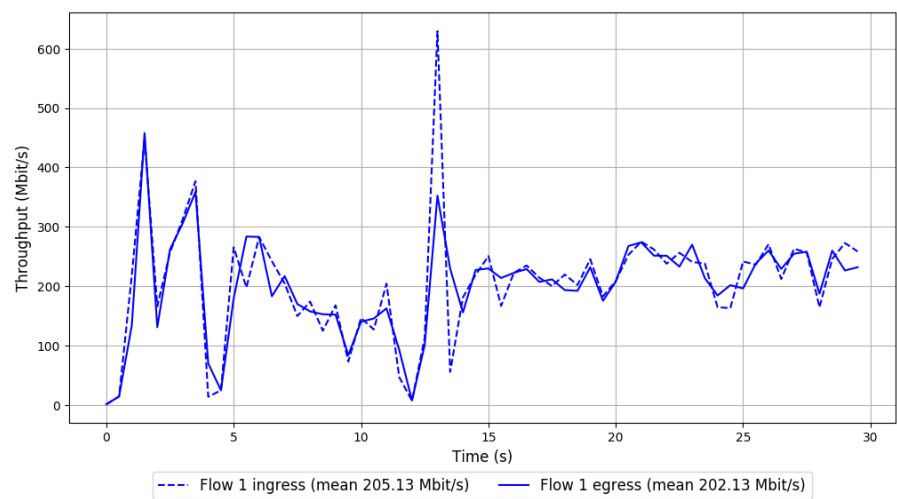
-- Flow 1:

Average throughput: 202.13 Mbit/s

95th percentile per-packet one-way delay: 157.447 ms

Loss rate: 2.17%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-21 08:07:53

End at: 2017-11-21 08:08:23

Below is generated by plot.py at 2017-11-21 11:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.40 Mbit/s

95th percentile per-packet one-way delay: 143.227 ms

Loss rate: 1.89%

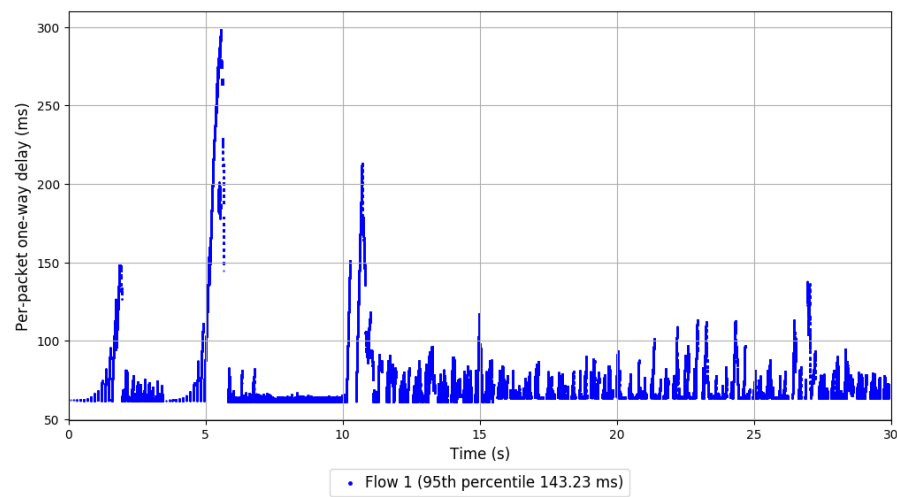
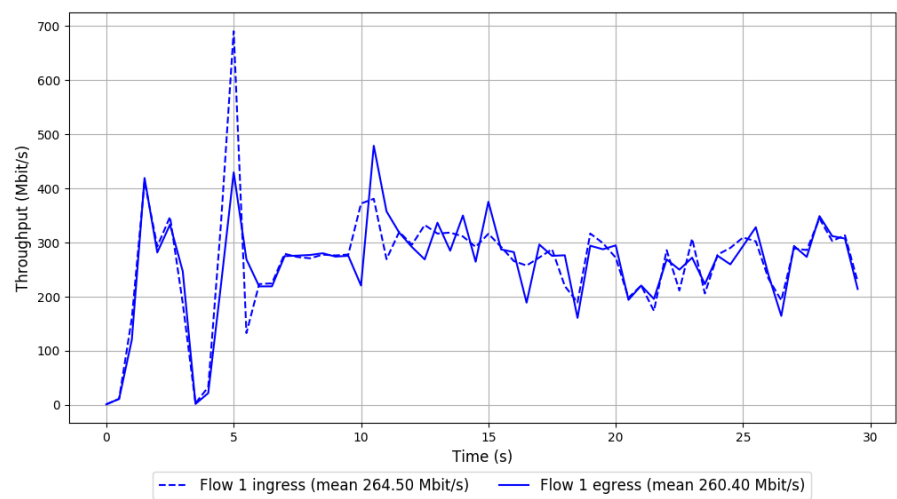
-- Flow 1:

Average throughput: 260.40 Mbit/s

95th percentile per-packet one-way delay: 143.227 ms

Loss rate: 1.89%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-21 08:18:39

End at: 2017-11-21 08:19:09

Below is generated by plot.py at 2017-11-21 11:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.38 Mbit/s

95th percentile per-packet one-way delay: 268.818 ms

Loss rate: 13.32%

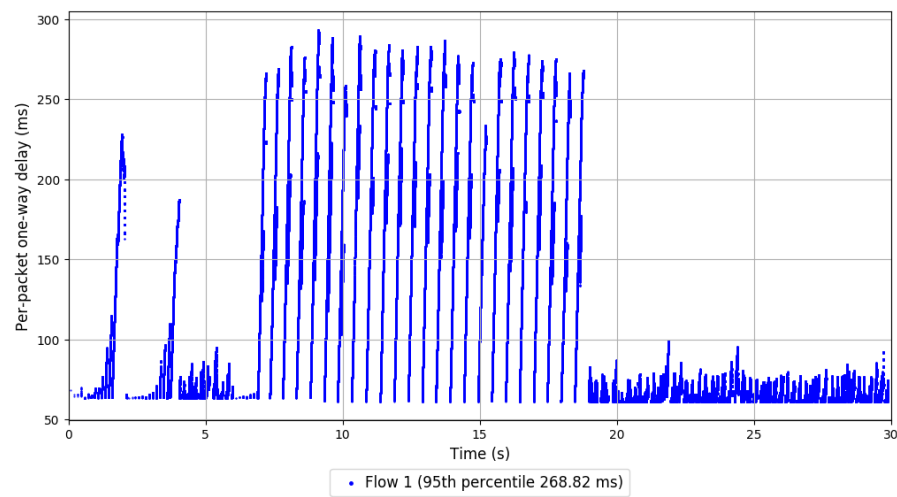
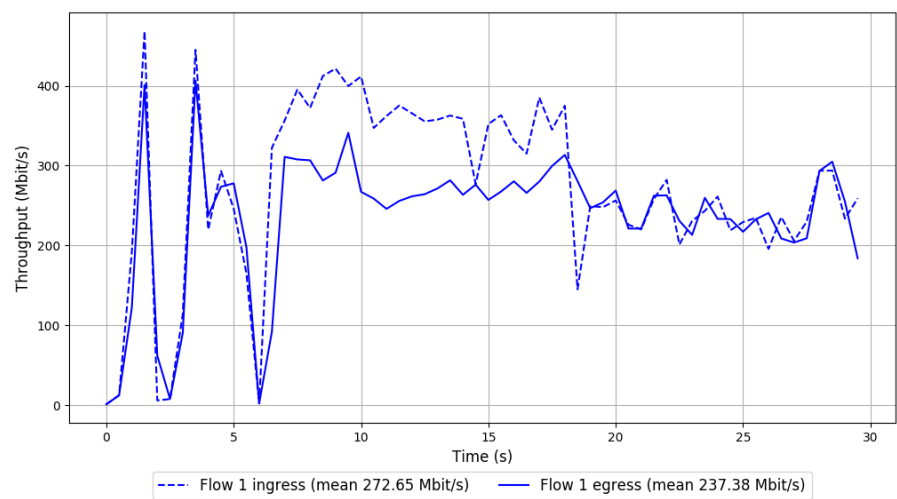
-- Flow 1:

Average throughput: 237.38 Mbit/s

95th percentile per-packet one-way delay: 268.818 ms

Loss rate: 13.32%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-21 08:29:13

End at: 2017-11-21 08:29:43

Below is generated by plot.py at 2017-11-21 11:51:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.05 Mbit/s

95th percentile per-packet one-way delay: 119.868 ms

Loss rate: 0.79%

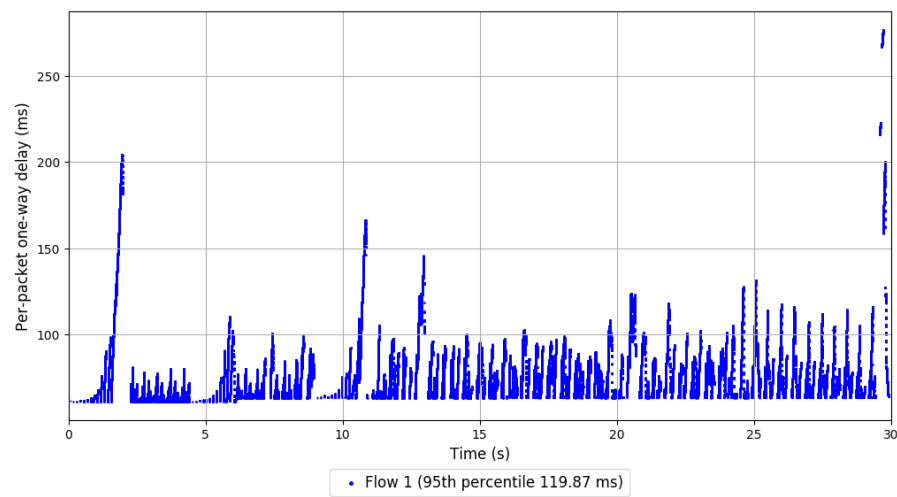
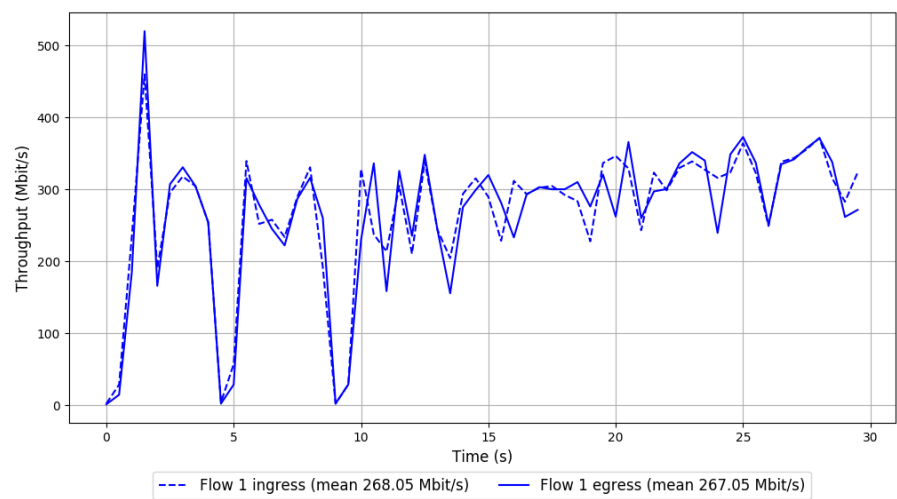
-- Flow 1:

Average throughput: 267.05 Mbit/s

95th percentile per-packet one-way delay: 119.868 ms

Loss rate: 0.79%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-21 08:39:42

End at: 2017-11-21 08:40:12

Below is generated by plot.py at 2017-11-21 11:51:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.37 Mbit/s

95th percentile per-packet one-way delay: 177.258 ms

Loss rate: 2.46%

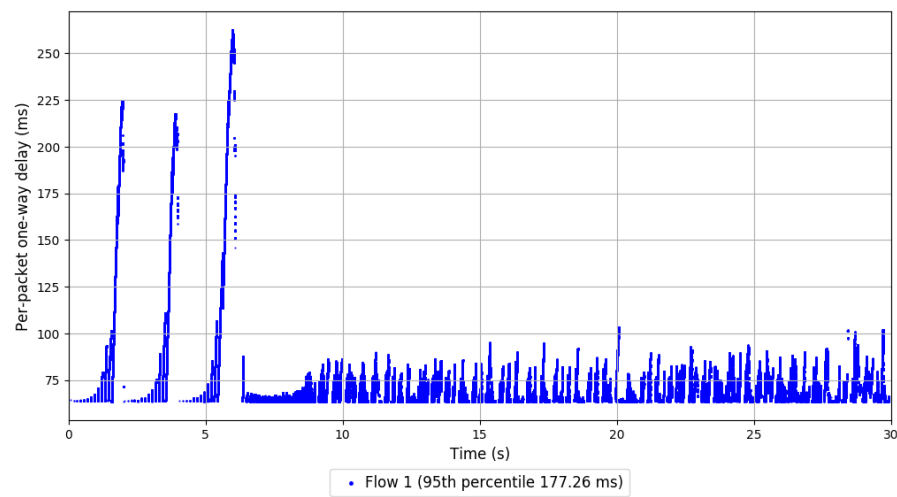
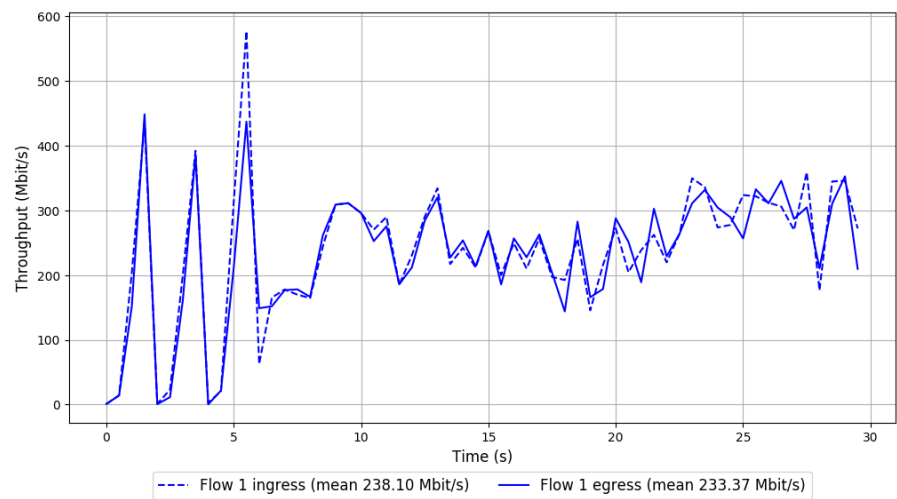
-- Flow 1:

Average throughput: 233.37 Mbit/s

95th percentile per-packet one-way delay: 177.258 ms

Loss rate: 2.46%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-21 08:50:22

End at: 2017-11-21 08:50:52

Below is generated by plot.py at 2017-11-21 11:51:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.84 Mbit/s

95th percentile per-packet one-way delay: 151.590 ms

Loss rate: 0.77%

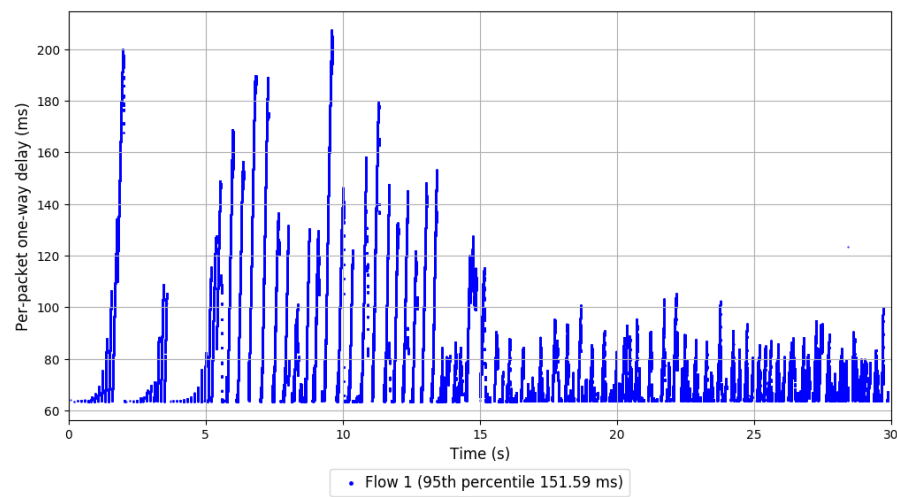
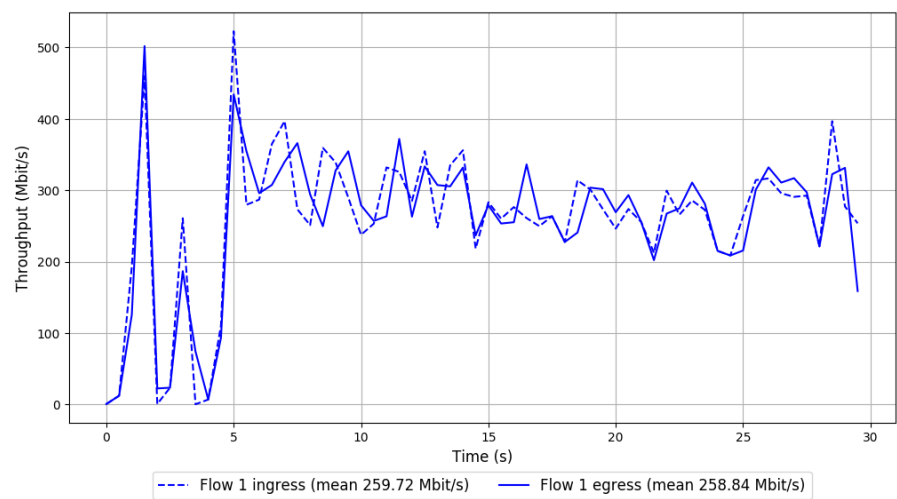
-- Flow 1:

Average throughput: 258.84 Mbit/s

95th percentile per-packet one-way delay: 151.590 ms

Loss rate: 0.77%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

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

End at: 2017-11-21 09:01:39

Run 7: Report of Verus — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of Verus

Start at: 2017-11-21 09:11:17

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

Below is generated by plot.py at 2017-11-21 11:51:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.47 Mbit/s

95th percentile per-packet one-way delay: 141.446 ms

Loss rate: 2.22%

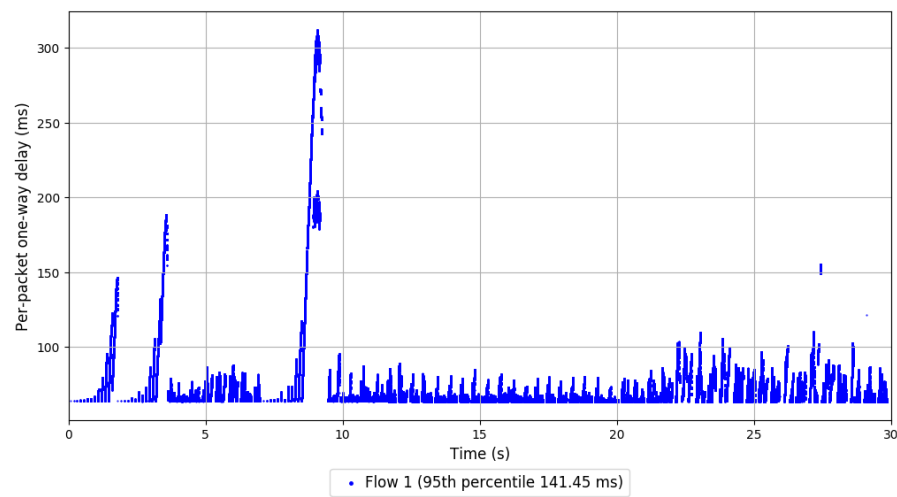
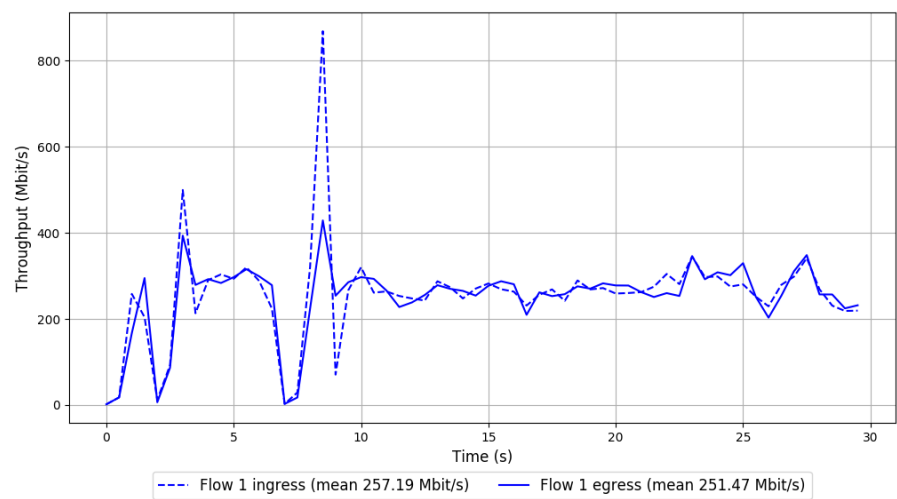
-- Flow 1:

Average throughput: 251.47 Mbit/s

95th percentile per-packet one-way delay: 141.446 ms

Loss rate: 2.22%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

End at: 2017-11-21 09:22:15

Below is generated by plot.py at 2017-11-21 11:51:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.90 Mbit/s

95th percentile per-packet one-way delay: 111.258 ms

Loss rate: 3.02%

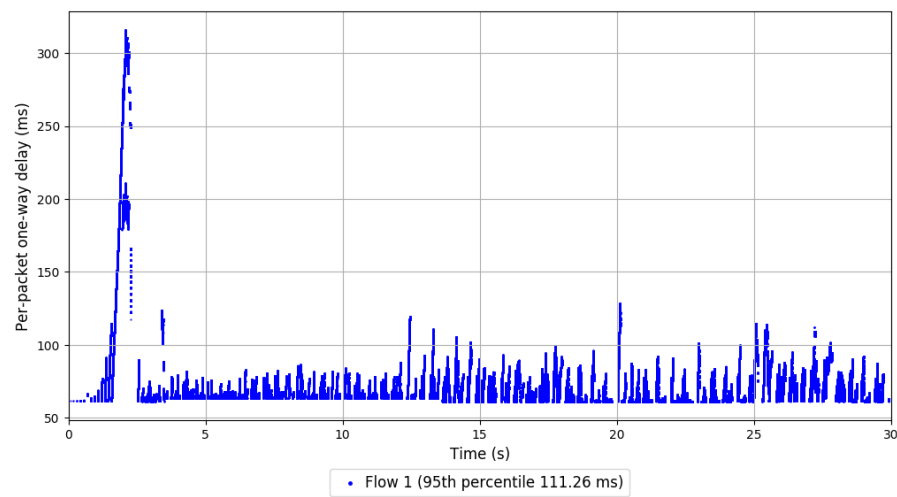
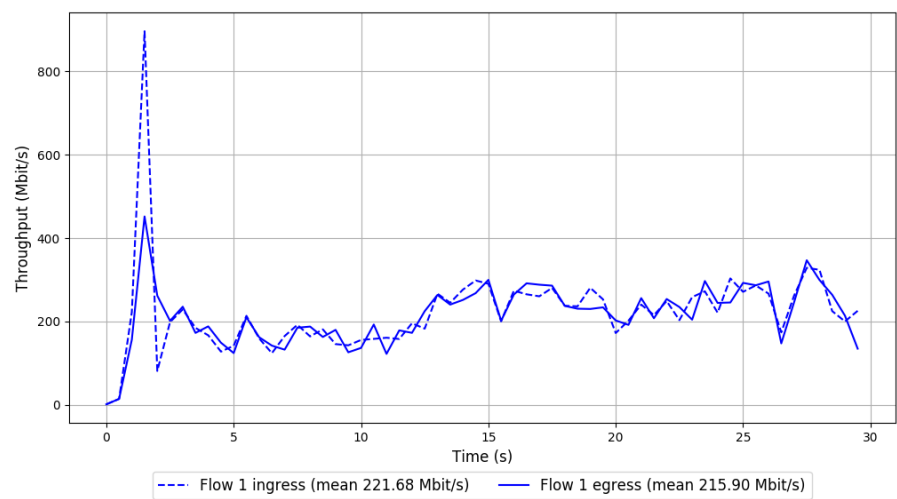
-- Flow 1:

Average throughput: 215.90 Mbit/s

95th percentile per-packet one-way delay: 111.258 ms

Loss rate: 3.02%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-21 09:32:12

End at: 2017-11-21 09:32:42

Below is generated by plot.py at 2017-11-21 11:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.68 Mbit/s

95th percentile per-packet one-way delay: 94.510 ms

Loss rate: 0.34%

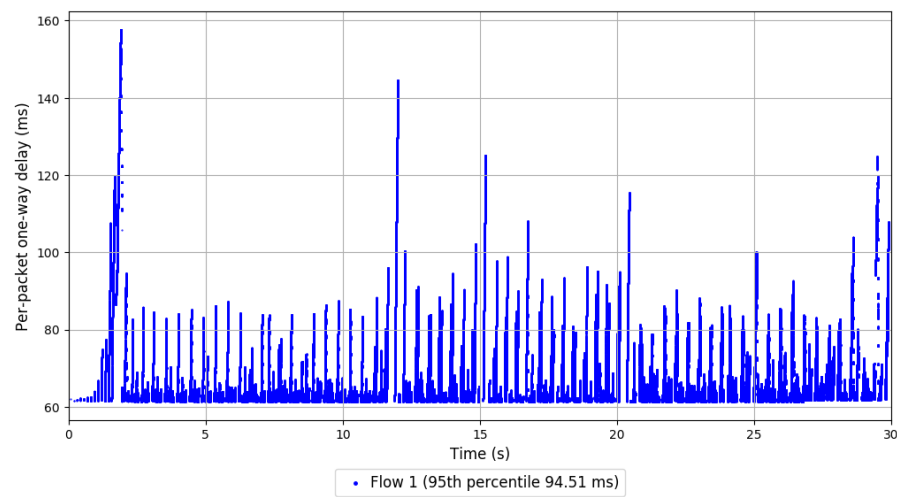
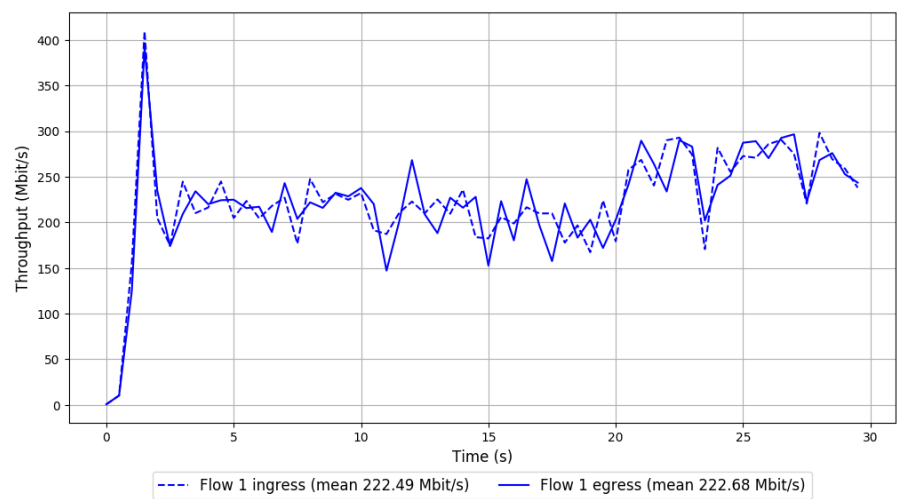
-- Flow 1:

Average throughput: 222.68 Mbit/s

95th percentile per-packet one-way delay: 94.510 ms

Loss rate: 0.34%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-21 07:49:47

End at: 2017-11-21 07:50:17

Below is generated by plot.py at 2017-11-21 11:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 63.845 ms

Loss rate: 0.22%

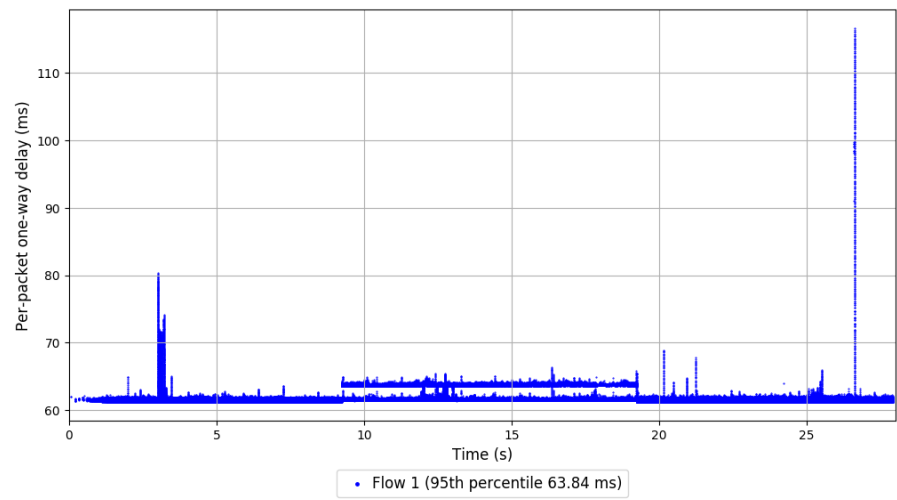
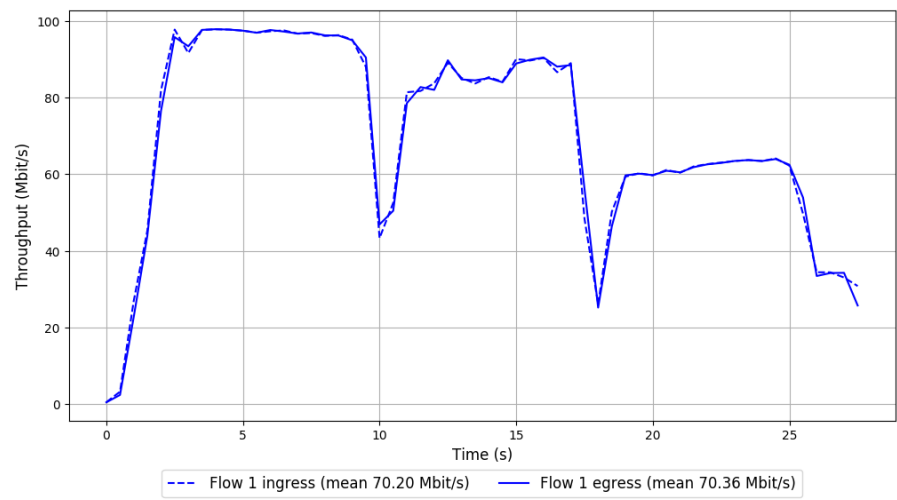
-- Flow 1:

Average throughput: 70.36 Mbit/s

95th percentile per-packet one-way delay: 63.845 ms

Loss rate: 0.22%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-21 07:59:53

End at: 2017-11-21 08:00:23

Below is generated by plot.py at 2017-11-21 11:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 63.882 ms

Loss rate: 0.59%

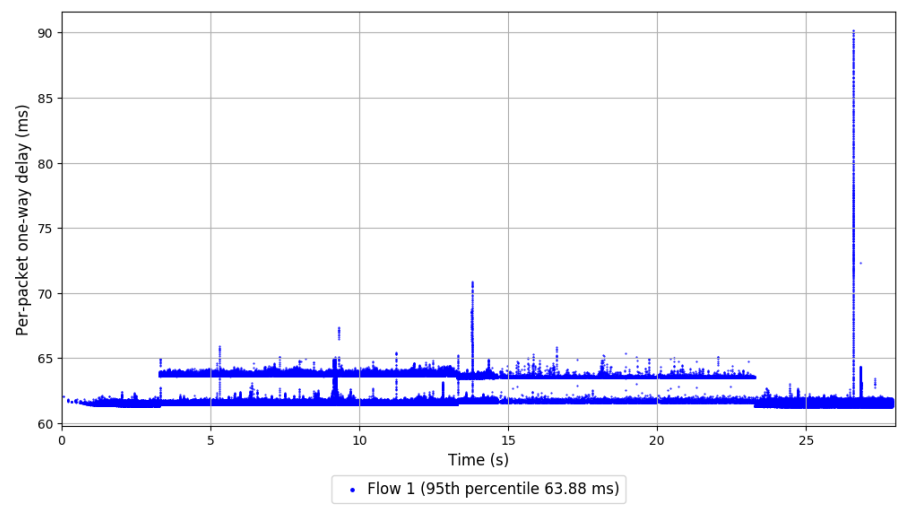
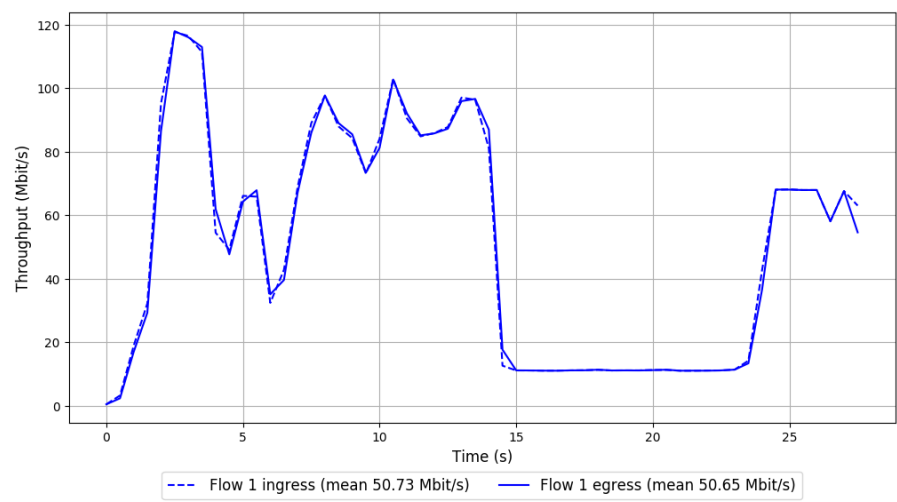
-- Flow 1:

Average throughput: 50.65 Mbit/s

95th percentile per-packet one-way delay: 63.882 ms

Loss rate: 0.59%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

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

End at: 2017-11-21 08:10:57

Below is generated by plot.py at 2017-11-21 11:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.72 Mbit/s

95th percentile per-packet one-way delay: 63.918 ms

Loss rate: 0.77%

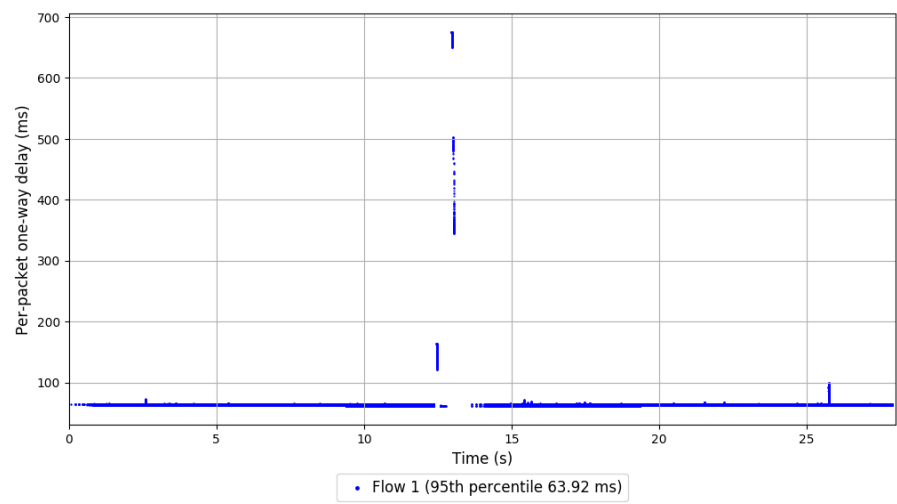
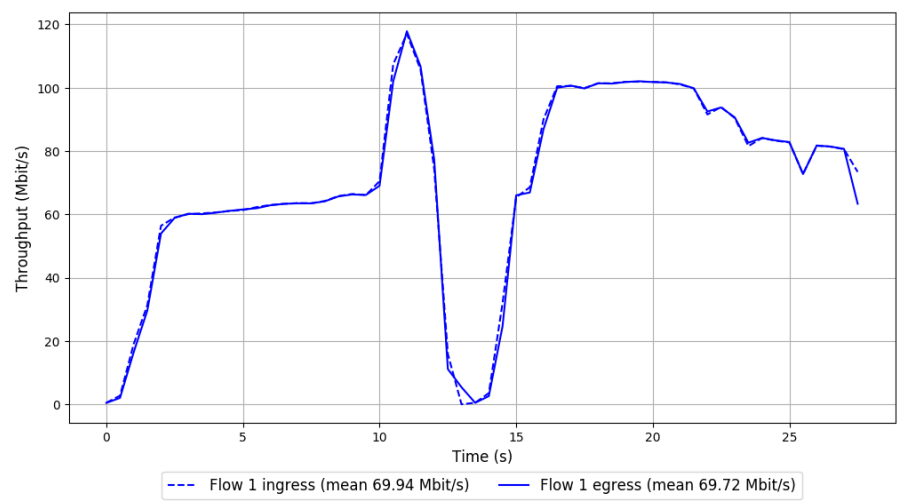
-- Flow 1:

Average throughput: 69.72 Mbit/s

95th percentile per-packet one-way delay: 63.918 ms

Loss rate: 0.77%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-21 08:21:13

End at: 2017-11-21 08:21:43

Below is generated by plot.py at 2017-11-21 11:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 63.880 ms

Loss rate: 0.44%

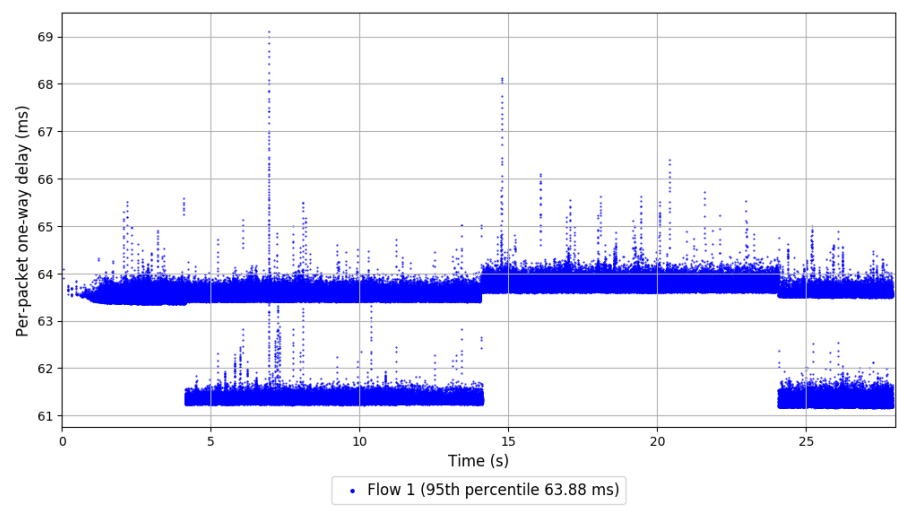
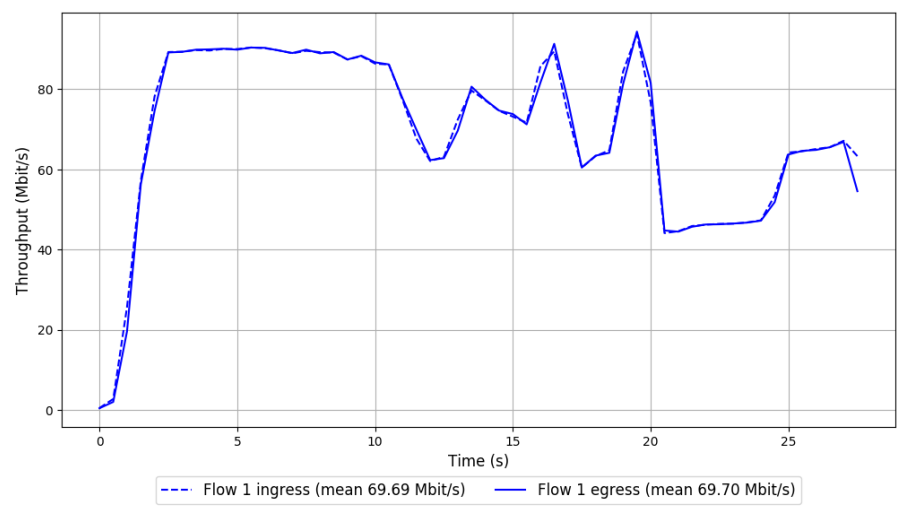
-- Flow 1:

Average throughput: 69.70 Mbit/s

95th percentile per-packet one-way delay: 63.880 ms

Loss rate: 0.44%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-21 08:31:43

End at: 2017-11-21 08:32:14

Below is generated by plot.py at 2017-11-21 11:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.18 Mbit/s

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

Loss rate: 0.41%

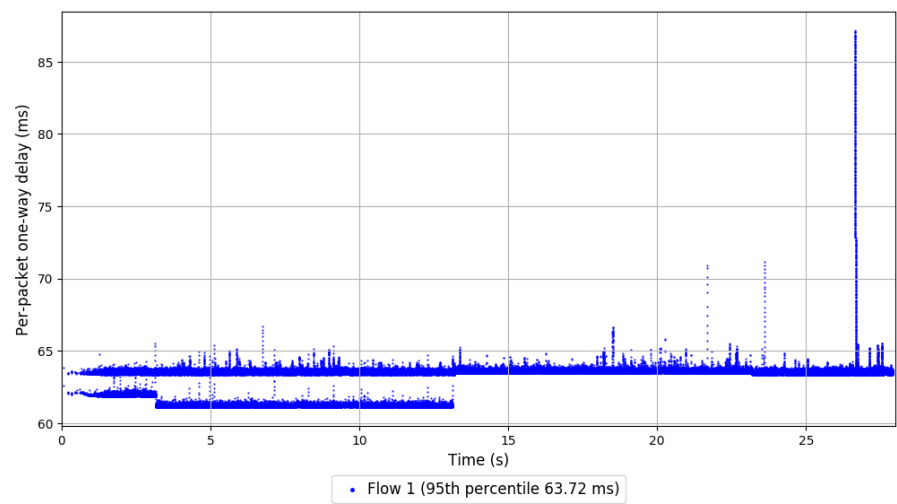
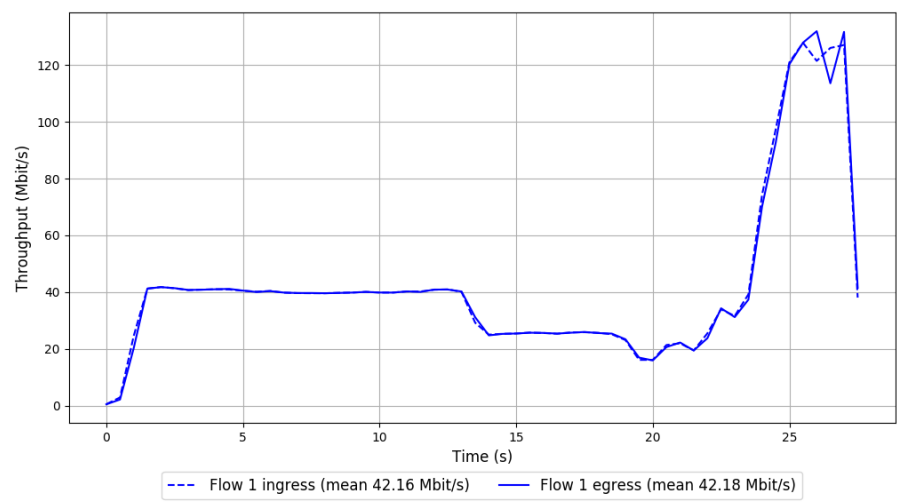
-- Flow 1:

Average throughput: 42.18 Mbit/s

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

Loss rate: 0.41%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-21 08:42:18

End at: 2017-11-21 08:42:48

Below is generated by plot.py at 2017-11-21 11:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 63.815 ms

Loss rate: 0.40%

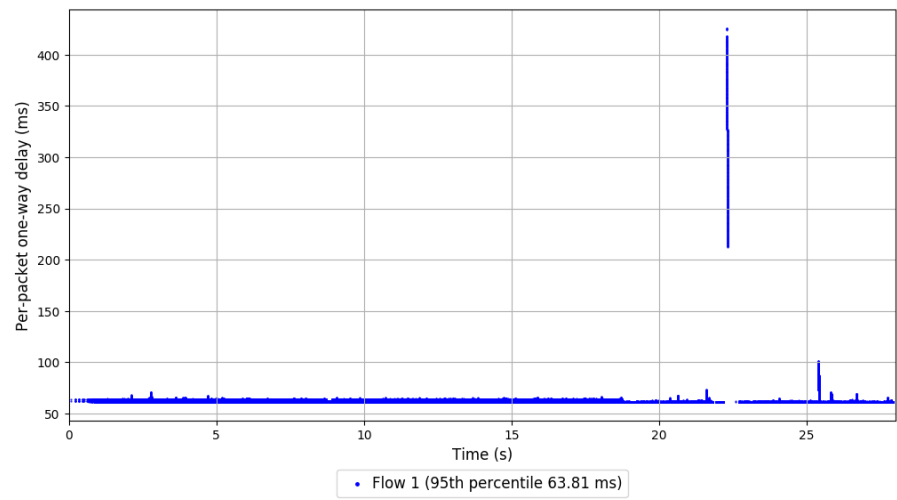
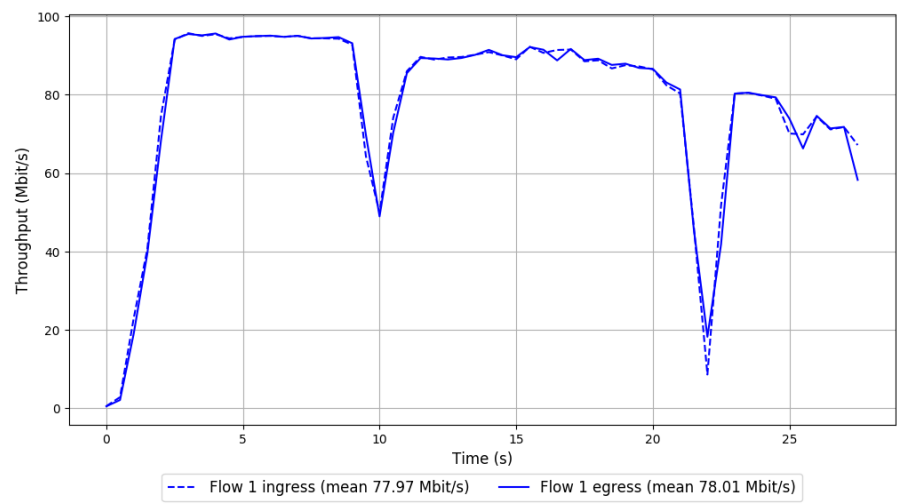
-- Flow 1:

Average throughput: 78.01 Mbit/s

95th percentile per-packet one-way delay: 63.815 ms

Loss rate: 0.40%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-21 08:52:56

End at: 2017-11-21 08:53:26

Below is generated by plot.py at 2017-11-21 11:54:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.02 Mbit/s

95th percentile per-packet one-way delay: 63.879 ms

Loss rate: 0.20%

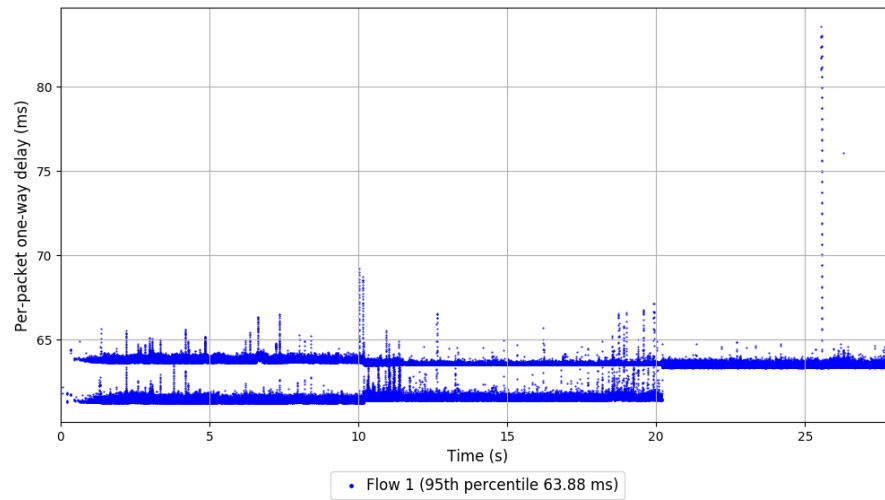
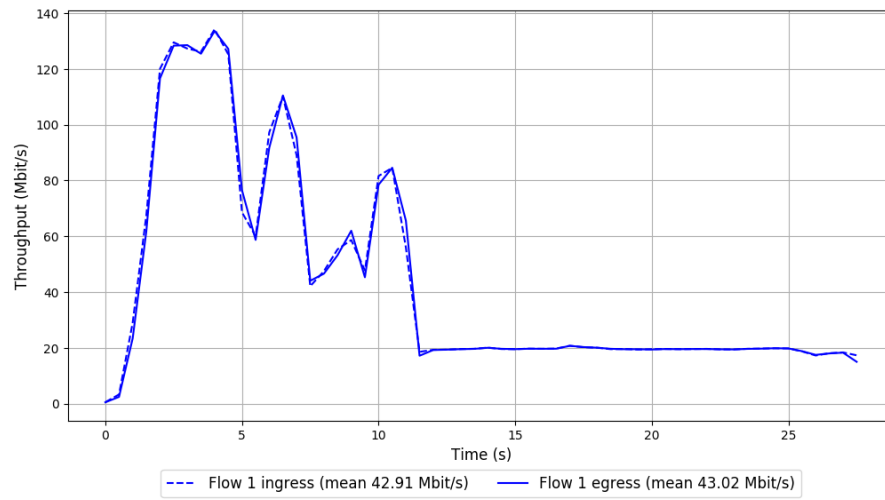
-- Flow 1:

Average throughput: 43.02 Mbit/s

95th percentile per-packet one-way delay: 63.879 ms

Loss rate: 0.20%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-21 09:03:24

End at: 2017-11-21 09:03:54

Below is generated by plot.py at 2017-11-21 11:54:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.74 Mbit/s

95th percentile per-packet one-way delay: 63.946 ms

Loss rate: 0.43%

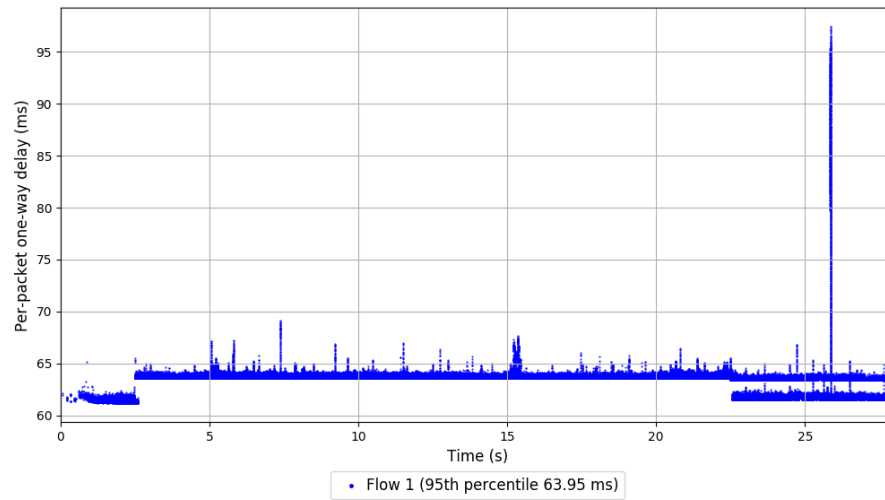
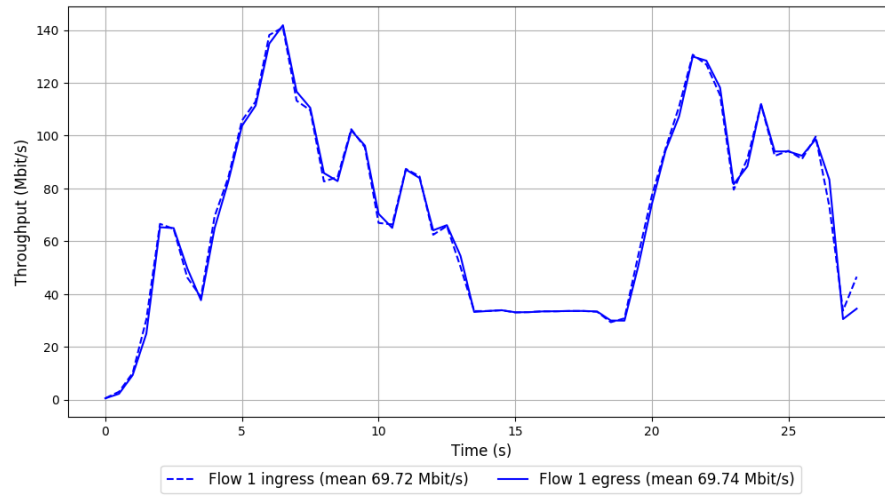
-- Flow 1:

Average throughput: 69.74 Mbit/s

95th percentile per-packet one-way delay: 63.946 ms

Loss rate: 0.43%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-21 09:13:52

End at: 2017-11-21 09:14:22

Below is generated by plot.py at 2017-11-21 11:54:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 63.818 ms

Loss rate: 0.38%

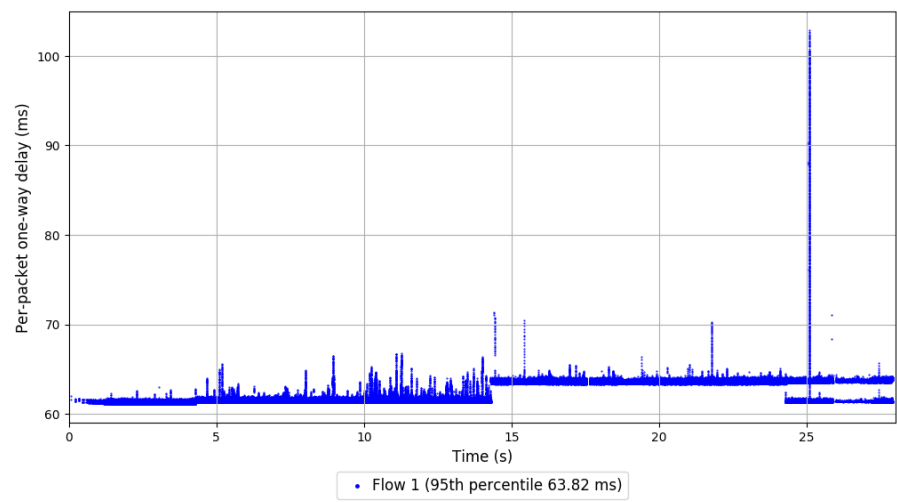
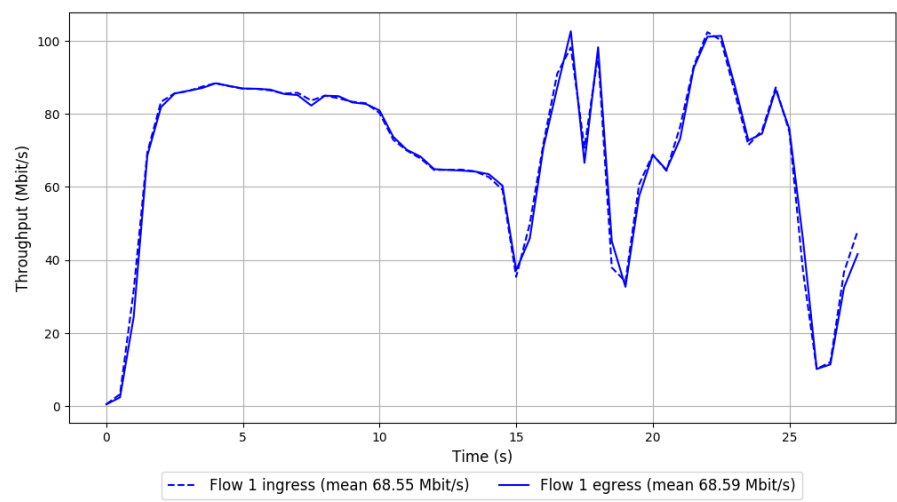
-- Flow 1:

Average throughput: 68.59 Mbit/s

95th percentile per-packet one-way delay: 63.818 ms

Loss rate: 0.38%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-21 09:24:17

End at: 2017-11-21 09:24:47

Below is generated by plot.py at 2017-11-21 11:54:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.16 Mbit/s

95th percentile per-packet one-way delay: 63.811 ms

Loss rate: 0.14%

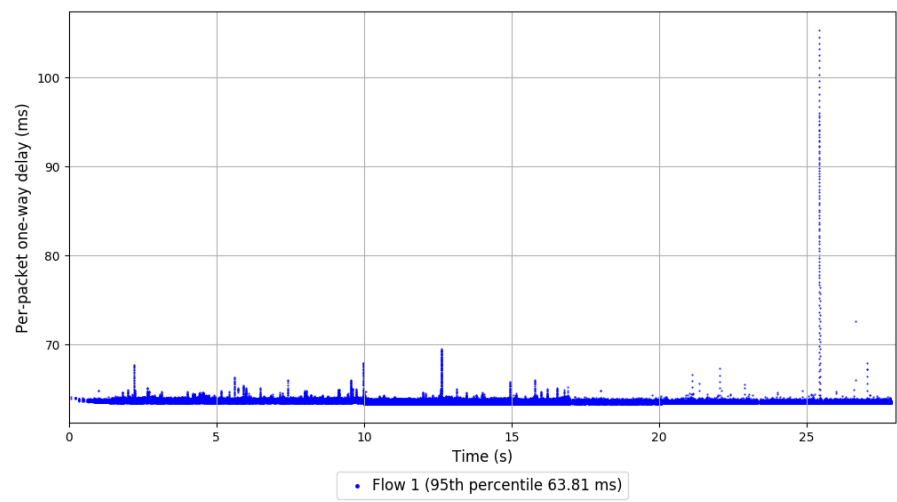
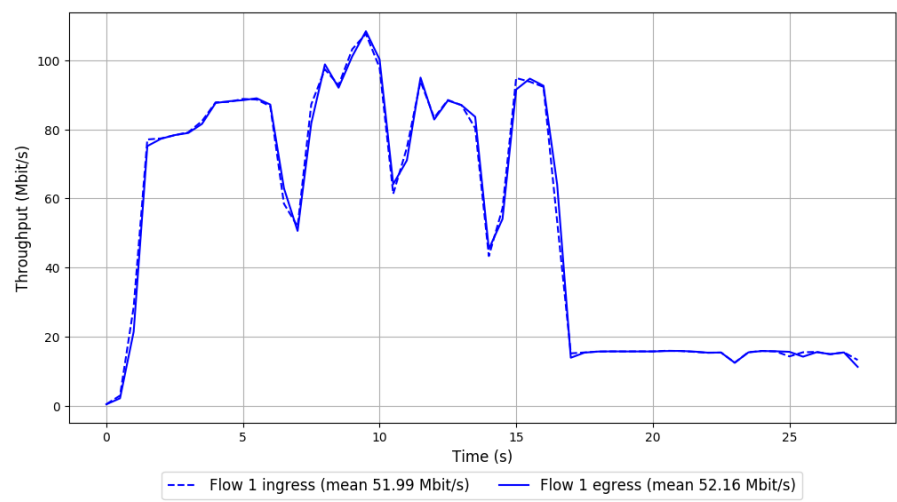
-- Flow 1:

Average throughput: 52.16 Mbit/s

95th percentile per-packet one-way delay: 63.811 ms

Loss rate: 0.14%

Run 10: Report of Copa — Data Link



Run 1: Statistics of Indigo

Start at: 2017-11-21 07:54:48

End at: 2017-11-21 07:55:18

Below is generated by plot.py at 2017-11-21 11:56:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.51 Mbit/s

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

Loss rate: 0.42%

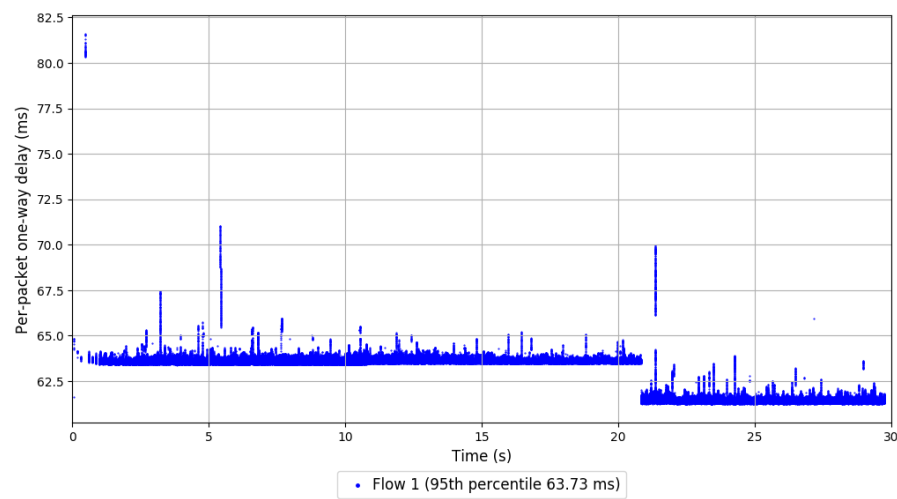
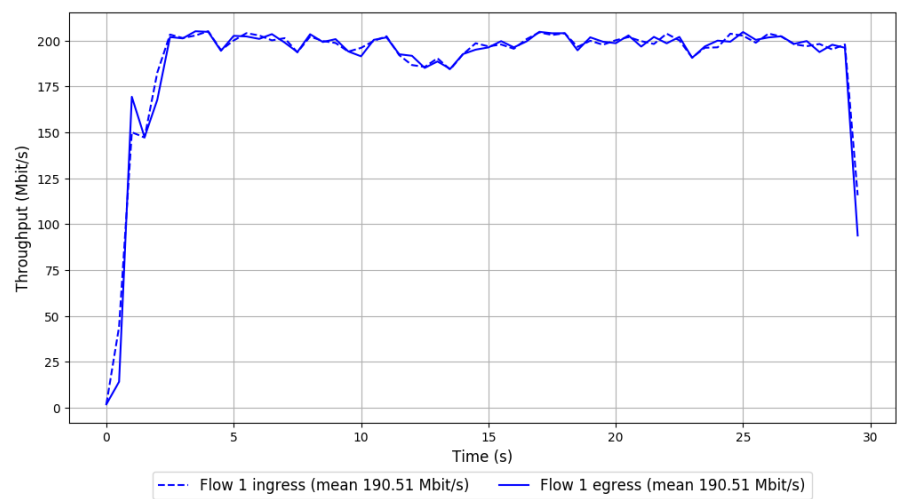
-- Flow 1:

Average throughput: 190.51 Mbit/s

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

Loss rate: 0.42%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-21 08:05:00

End at: 2017-11-21 08:05:30

Below is generated by plot.py at 2017-11-21 11:56:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.23 Mbit/s

95th percentile per-packet one-way delay: 63.964 ms

Loss rate: 0.41%

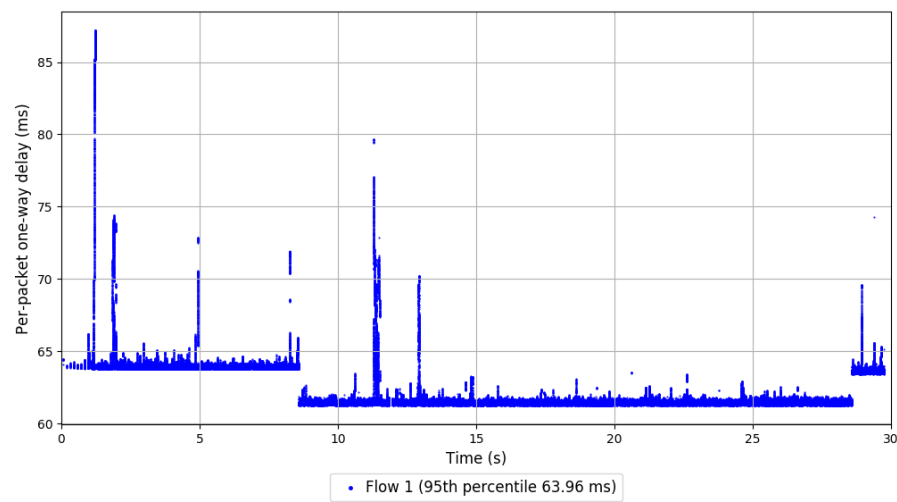
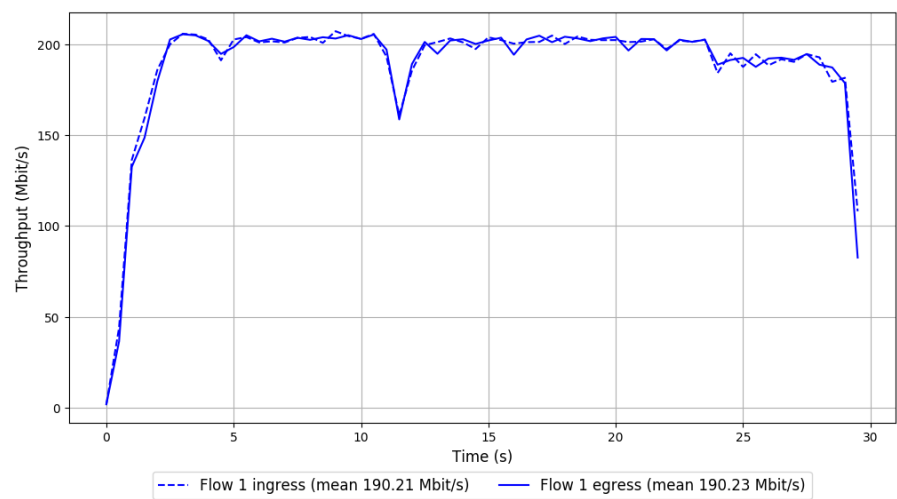
-- Flow 1:

Average throughput: 190.23 Mbit/s

95th percentile per-packet one-way delay: 63.964 ms

Loss rate: 0.41%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-21 08:15:33

End at: 2017-11-21 08:16:03

Below is generated by plot.py at 2017-11-21 11:56:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.65 Mbit/s

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

Loss rate: 0.49%

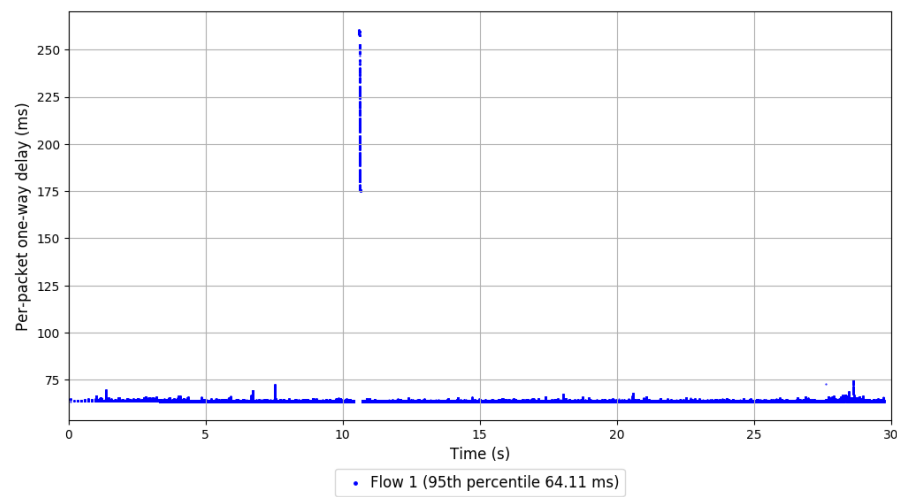
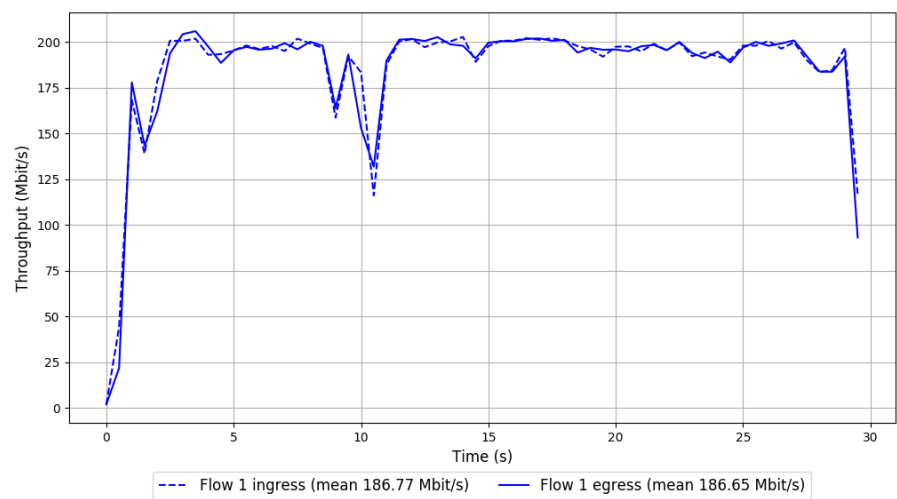
-- Flow 1:

Average throughput: 186.65 Mbit/s

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

Loss rate: 0.49%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-21 08:26:18

End at: 2017-11-21 08:26:48

Below is generated by plot.py at 2017-11-21 11:57:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.23 Mbit/s

95th percentile per-packet one-way delay: 63.988 ms

Loss rate: 0.46%

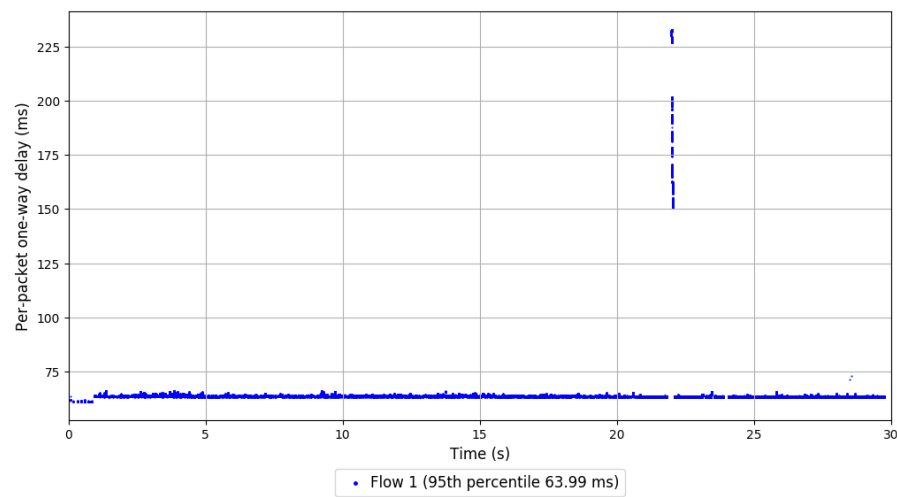
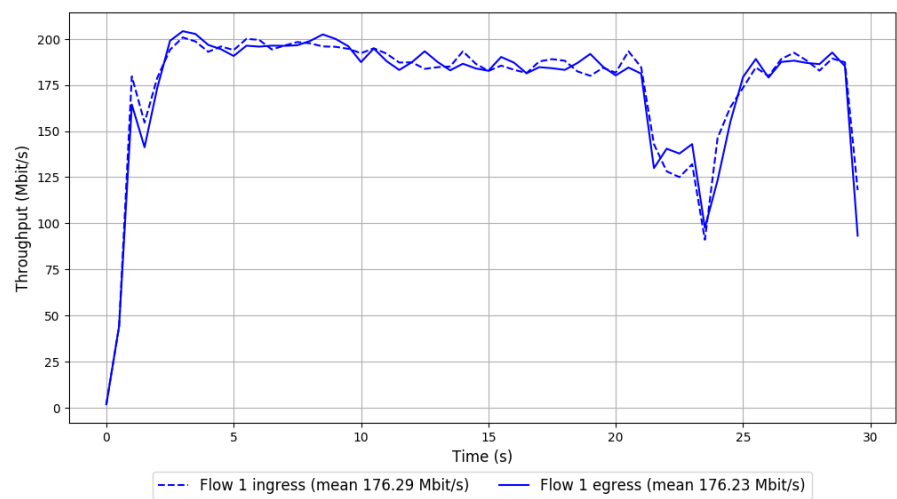
-- Flow 1:

Average throughput: 176.23 Mbit/s

95th percentile per-packet one-way delay: 63.988 ms

Loss rate: 0.46%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 08:36:47

End at: 2017-11-21 08:37:17

Below is generated by plot.py at 2017-11-21 11:57:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.81 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 0.45%

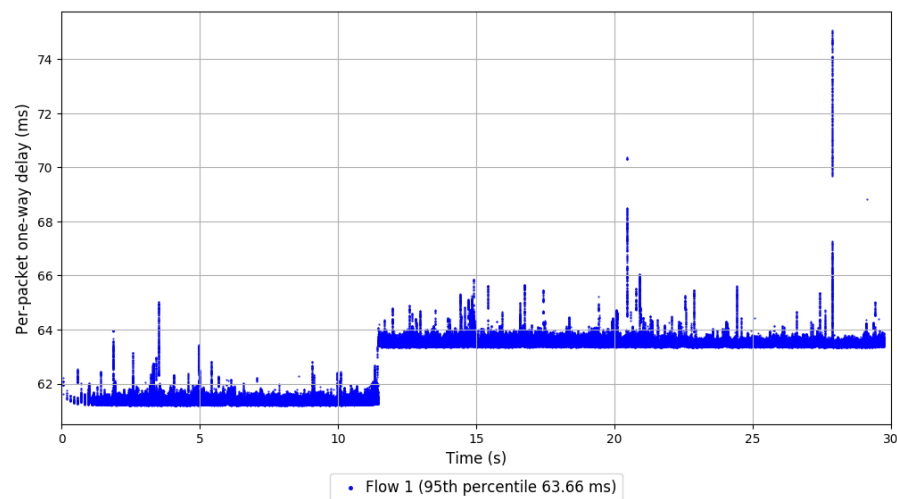
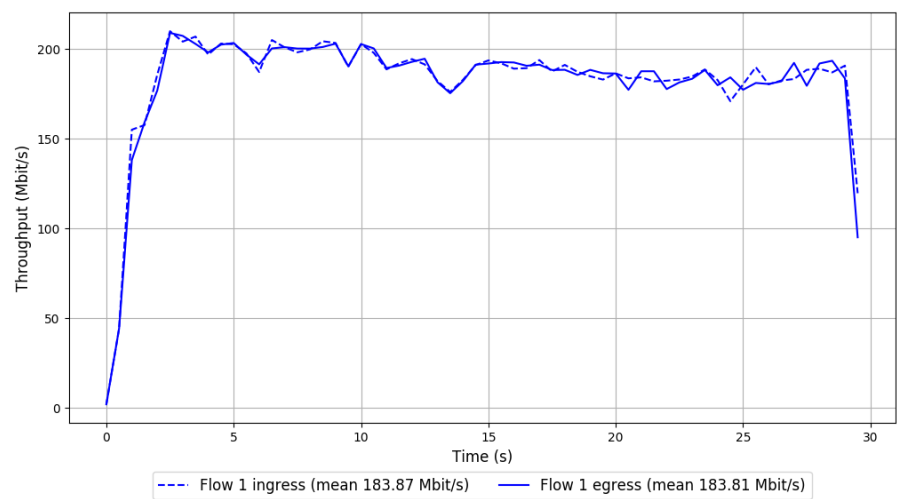
-- Flow 1:

Average throughput: 183.81 Mbit/s

95th percentile per-packet one-way delay: 63.660 ms

Loss rate: 0.45%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 08:47:29

End at: 2017-11-21 08:47:59

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.51 Mbit/s

95th percentile per-packet one-way delay: 63.952 ms

Loss rate: 0.36%

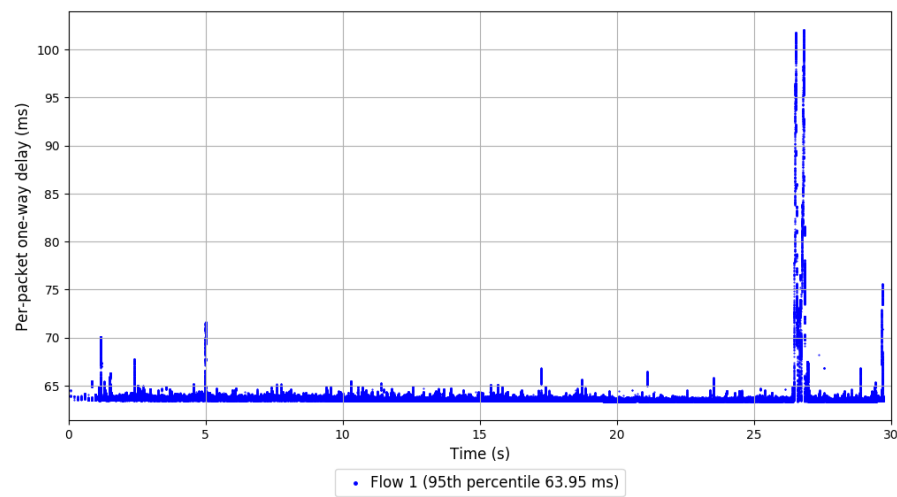
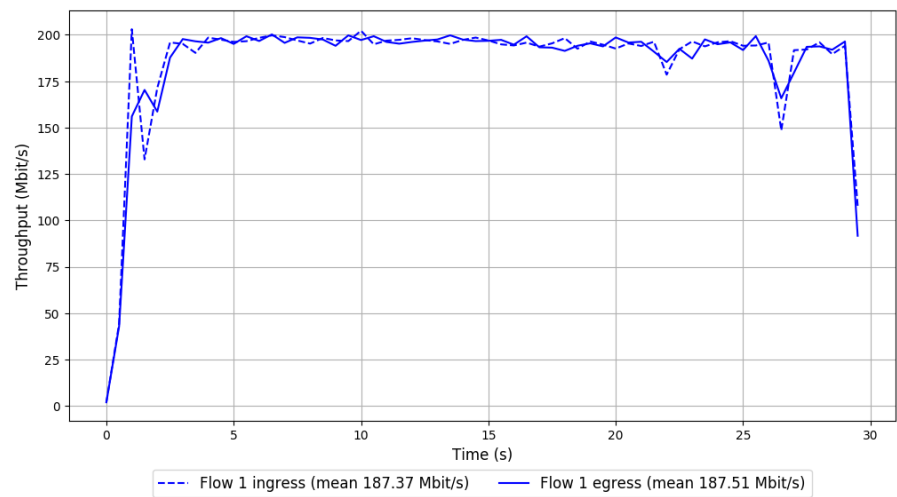
-- Flow 1:

Average throughput: 187.51 Mbit/s

95th percentile per-packet one-way delay: 63.952 ms

Loss rate: 0.36%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-21 08:58:01

End at: 2017-11-21 08:58:31

Below is generated by plot.py at 2017-11-21 11:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.00 Mbit/s

95th percentile per-packet one-way delay: 63.976 ms

Loss rate: 0.44%

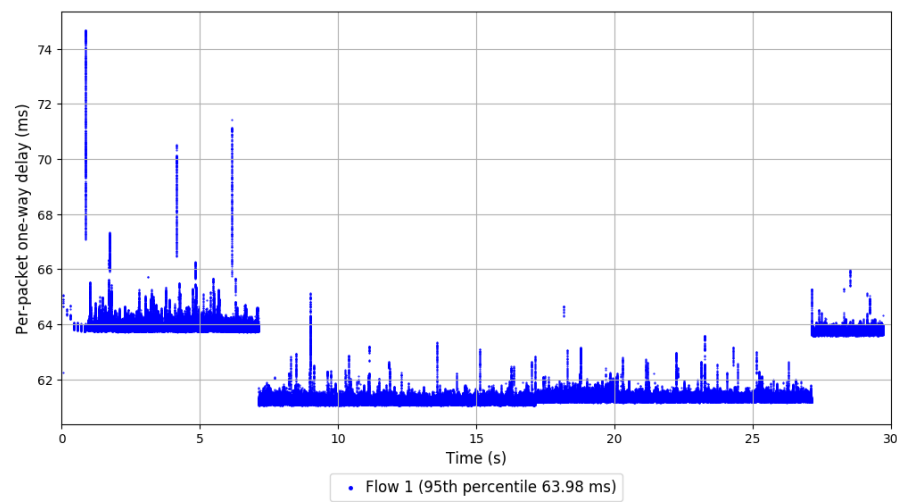
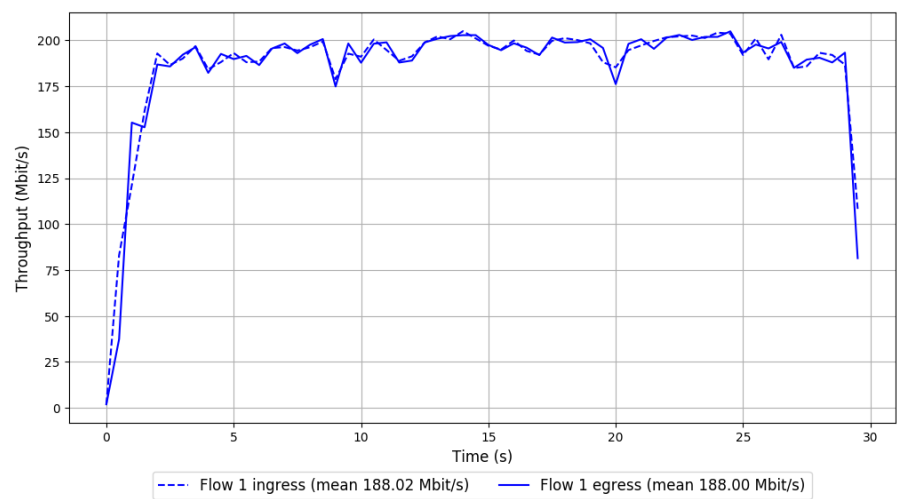
-- Flow 1:

Average throughput: 188.00 Mbit/s

95th percentile per-packet one-way delay: 63.976 ms

Loss rate: 0.44%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 09:08:31

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

Below is generated by plot.py at 2017-11-21 11:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.19 Mbit/s

95th percentile per-packet one-way delay: 64.445 ms

Loss rate: 0.44%

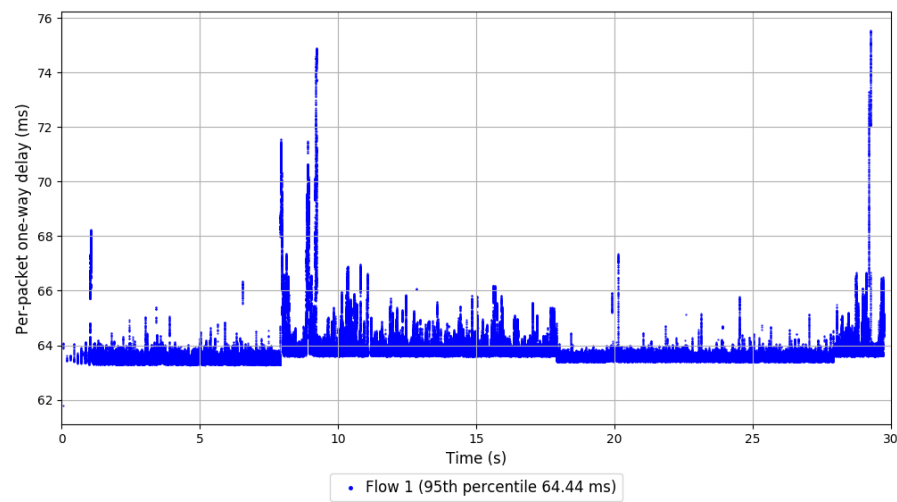
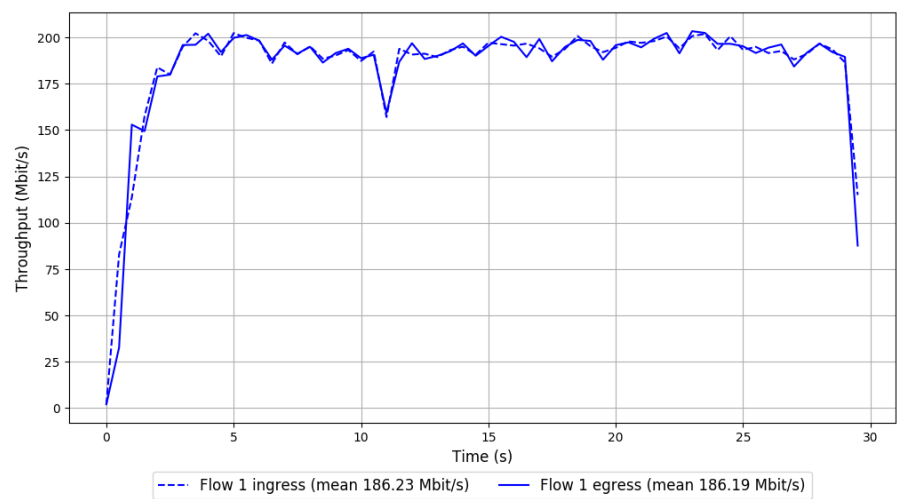
-- Flow 1:

Average throughput: 186.19 Mbit/s

95th percentile per-packet one-way delay: 64.445 ms

Loss rate: 0.44%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-21 09:19:00

End at: 2017-11-21 09:19:30

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.57 Mbit/s

95th percentile per-packet one-way delay: 63.850 ms

Loss rate: 0.44%

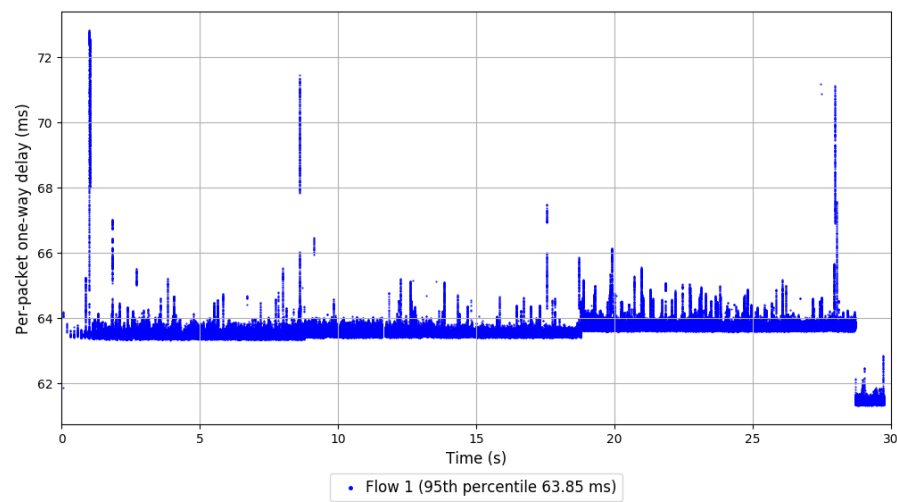
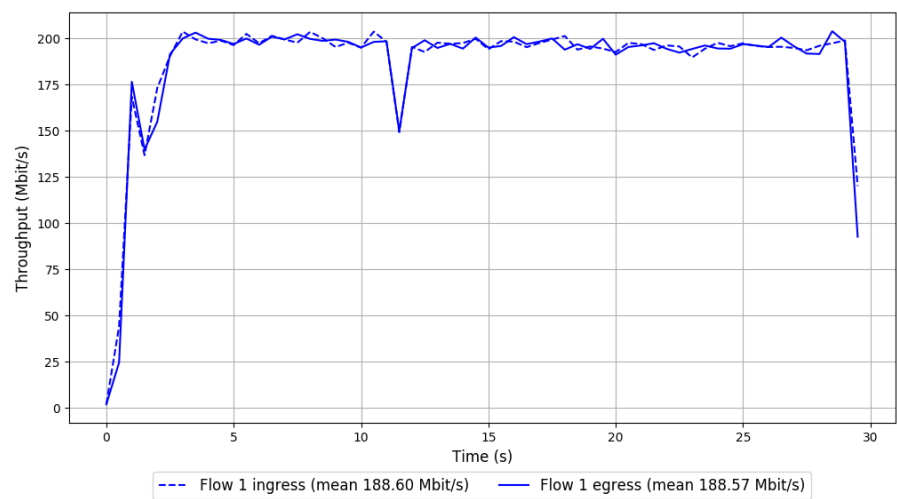
-- Flow 1:

Average throughput: 188.57 Mbit/s

95th percentile per-packet one-way delay: 63.850 ms

Loss rate: 0.44%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 09:29:18

End at: 2017-11-21 09:29:48

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.34 Mbit/s

95th percentile per-packet one-way delay: 63.711 ms

Loss rate: 0.43%

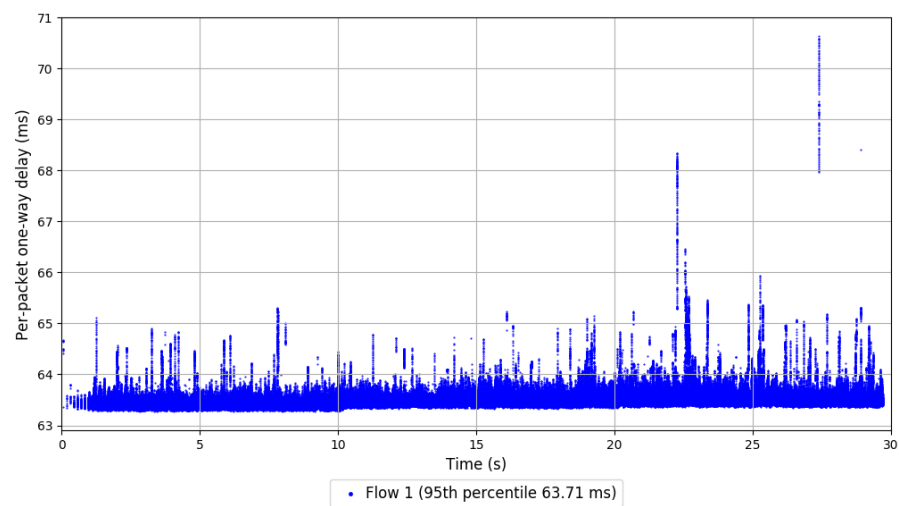
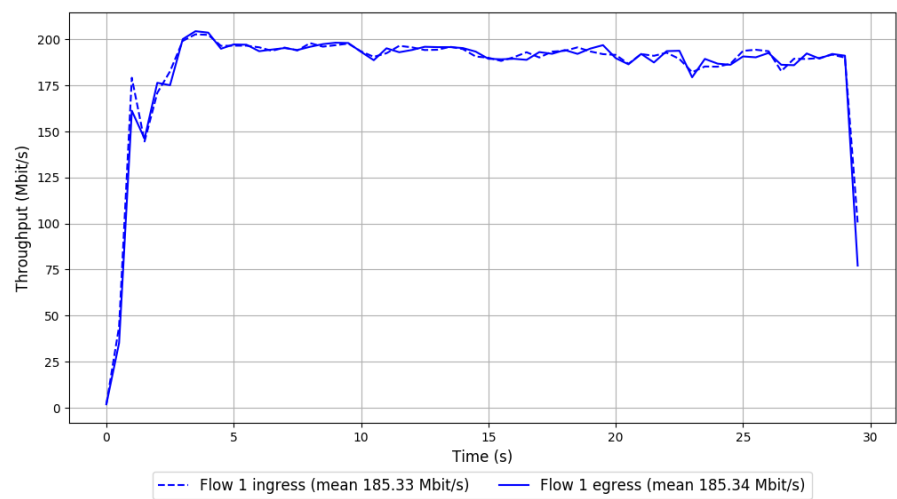
-- Flow 1:

Average throughput: 185.34 Mbit/s

95th percentile per-packet one-way delay: 63.711 ms

Loss rate: 0.43%

Run 10: Report of Indigo — Data Link

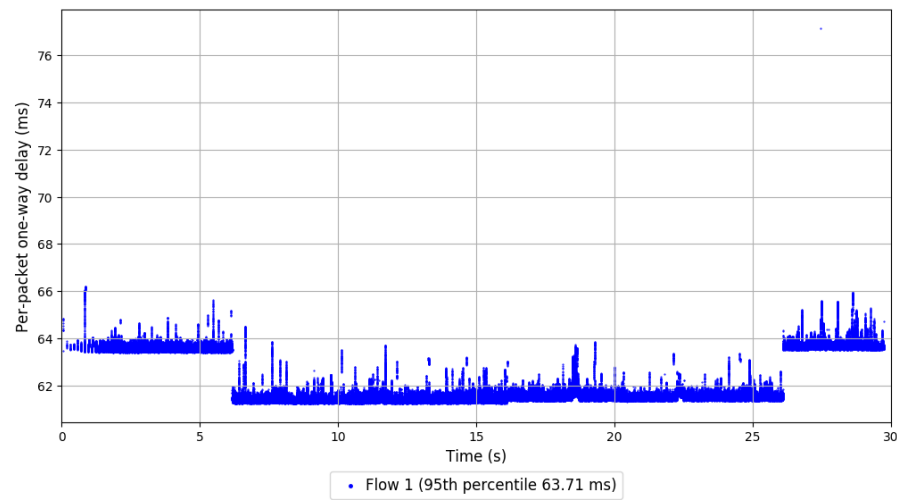
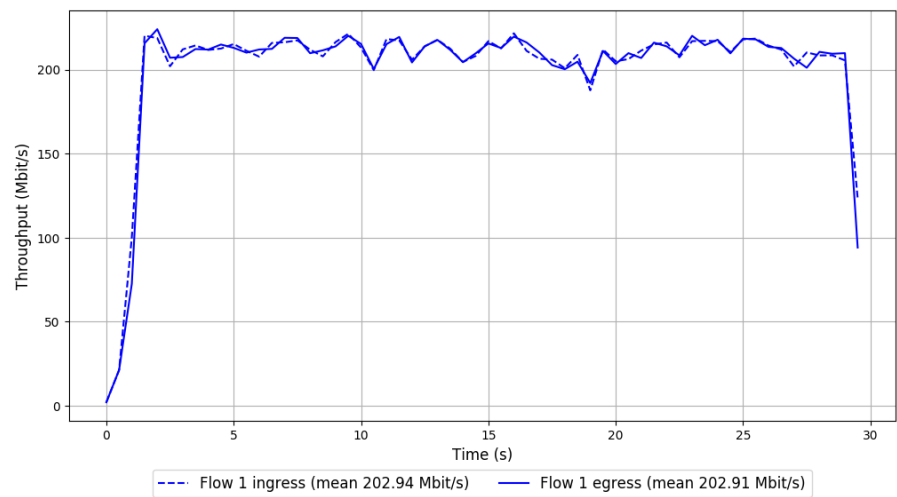


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 07:51:12
End at: 2017-11-21 07:51:42

# Below is generated by plot.py at 2017-11-21 12:00:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.91 Mbit/s
95th percentile per-packet one-way delay: 63.710 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 202.91 Mbit/s
95th percentile per-packet one-way delay: 63.710 ms
Loss rate: 0.44%
```

Run 1: Report of Indigo-calib — Data Link

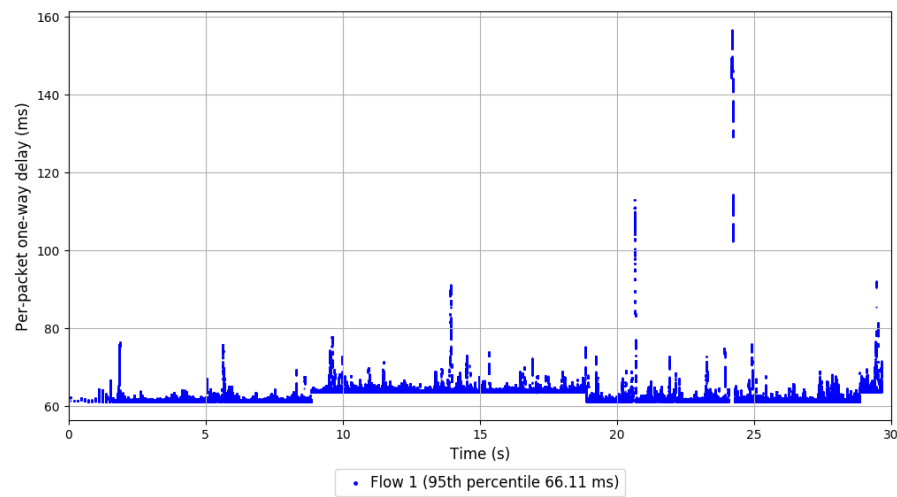
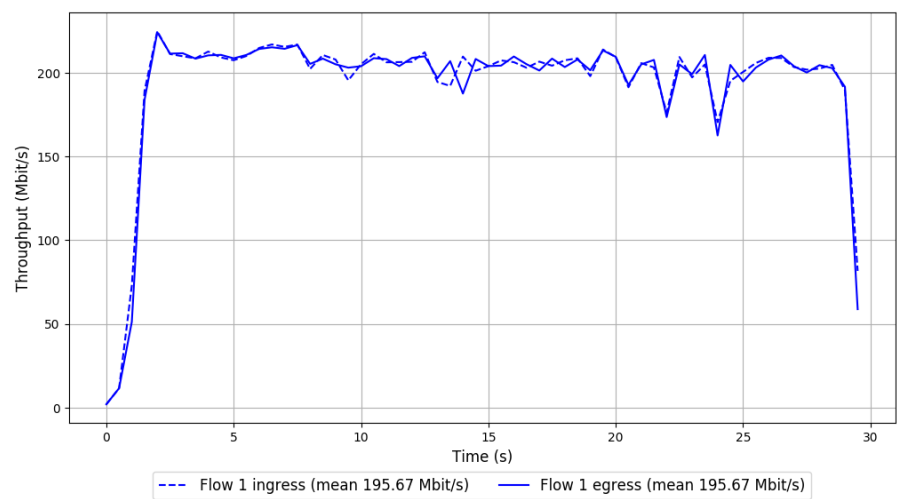


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-21 08:01:20
End at: 2017-11-21 08:01:50

# Below is generated by plot.py at 2017-11-21 12:00:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.67 Mbit/s
95th percentile per-packet one-way delay: 66.105 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 195.67 Mbit/s
95th percentile per-packet one-way delay: 66.105 ms
Loss rate: 0.42%
```

Run 2: Report of Indigo-calib — Data Link

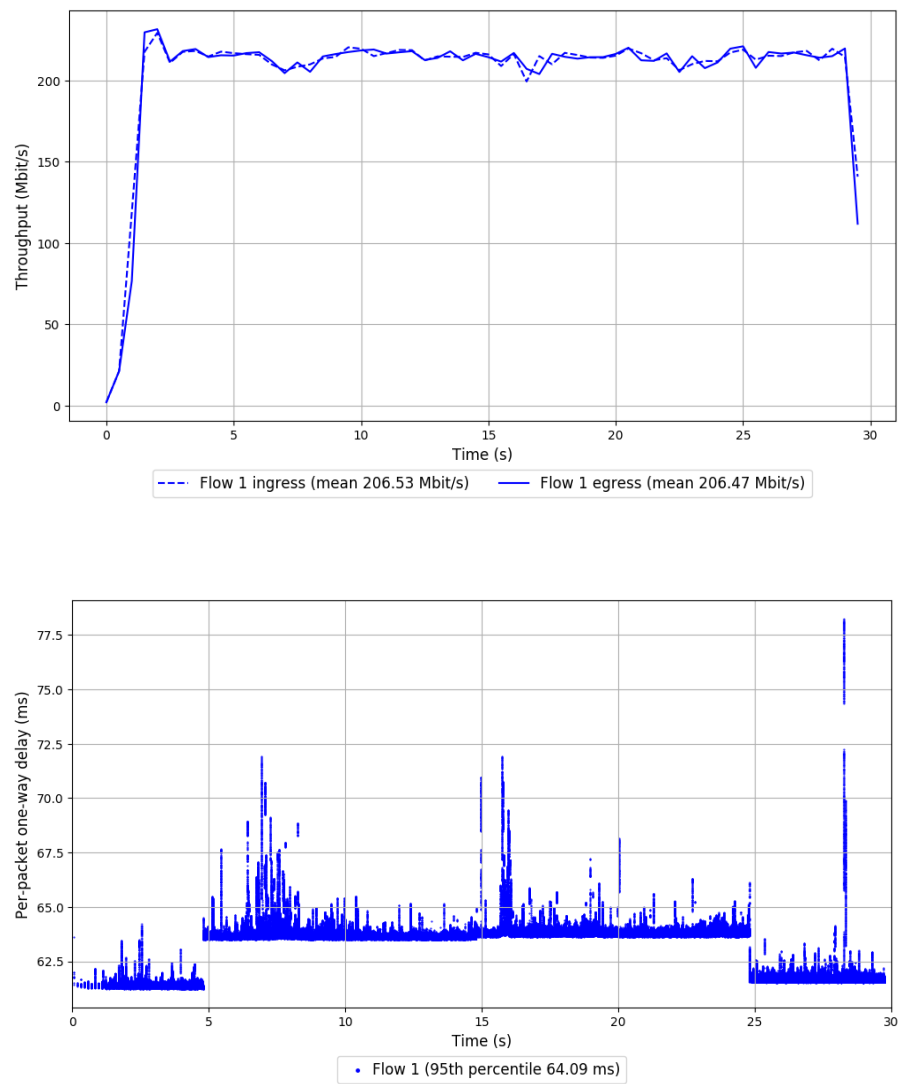


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 08:11:54
End at: 2017-11-21 08:12:24

# Below is generated by plot.py at 2017-11-21 12:01:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.47 Mbit/s
95th percentile per-packet one-way delay: 64.086 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 206.47 Mbit/s
95th percentile per-packet one-way delay: 64.086 ms
Loss rate: 0.45%
```


Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 08:22:40

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

Below is generated by plot.py at 2017-11-21 12:01:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.09 Mbit/s

95th percentile per-packet one-way delay: 63.816 ms

Loss rate: 0.46%

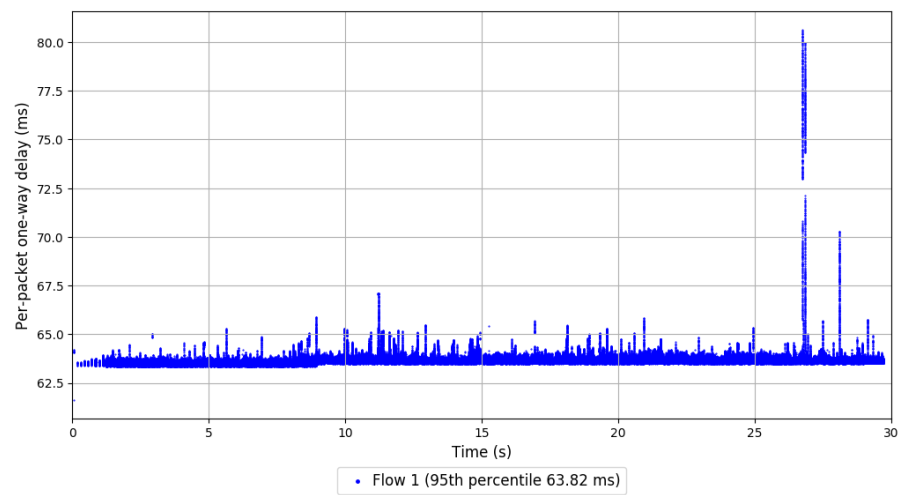
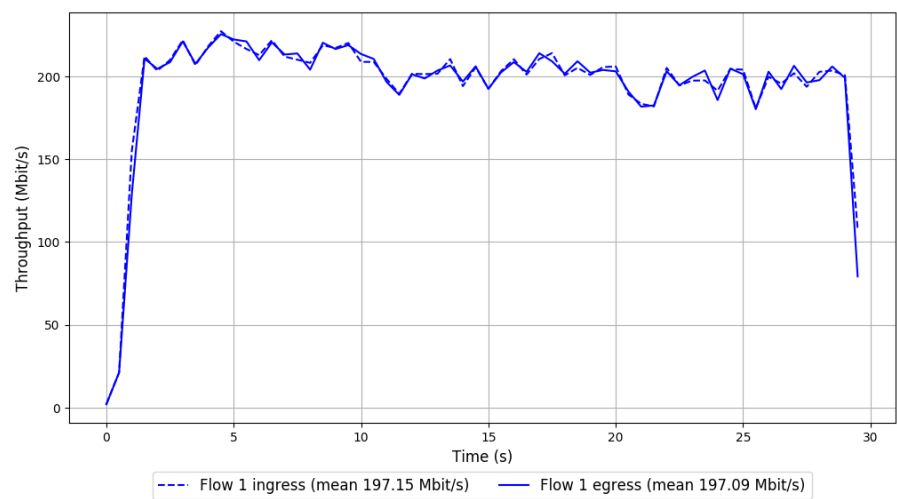
-- Flow 1:

Average throughput: 197.09 Mbit/s

95th percentile per-packet one-way delay: 63.816 ms

Loss rate: 0.46%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 08:33:08

End at: 2017-11-21 08:33:38

Below is generated by plot.py at 2017-11-21 12:02:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.01 Mbit/s

95th percentile per-packet one-way delay: 63.866 ms

Loss rate: 0.41%

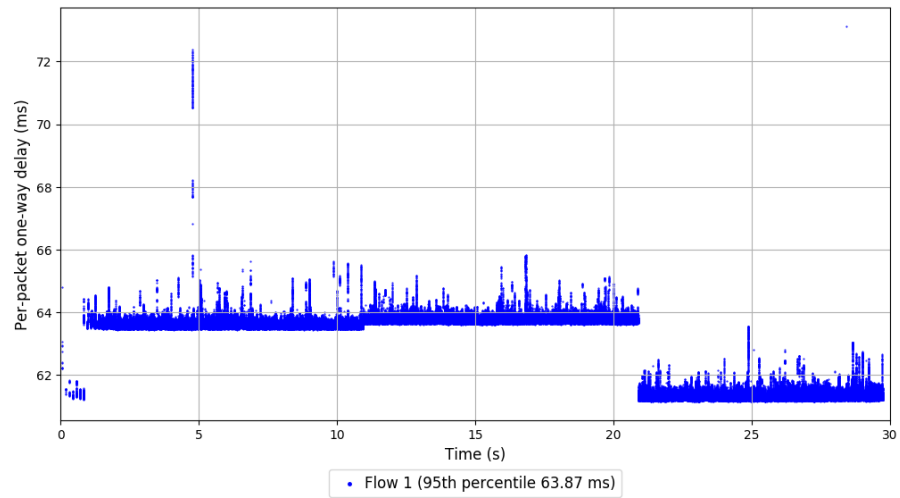
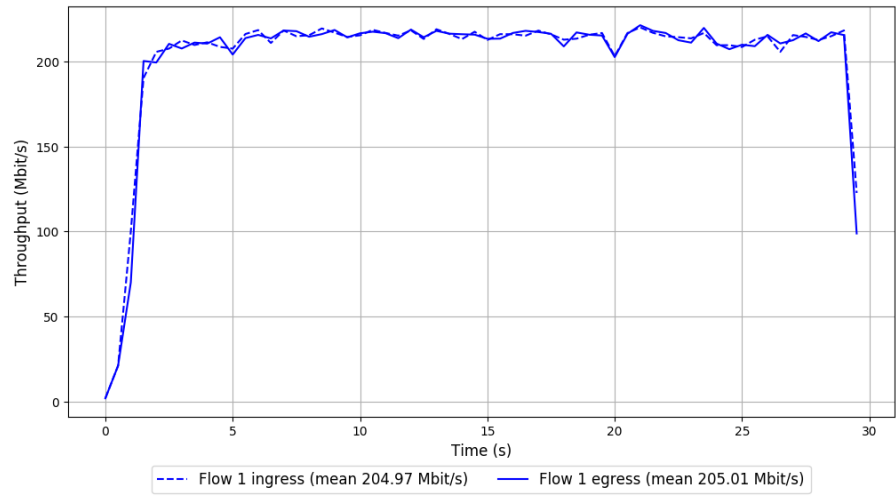
-- Flow 1:

Average throughput: 205.01 Mbit/s

95th percentile per-packet one-way delay: 63.866 ms

Loss rate: 0.41%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 08:43:46

End at: 2017-11-21 08:44:16

Below is generated by plot.py at 2017-11-21 12:02:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.87 Mbit/s

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

Loss rate: 0.40%

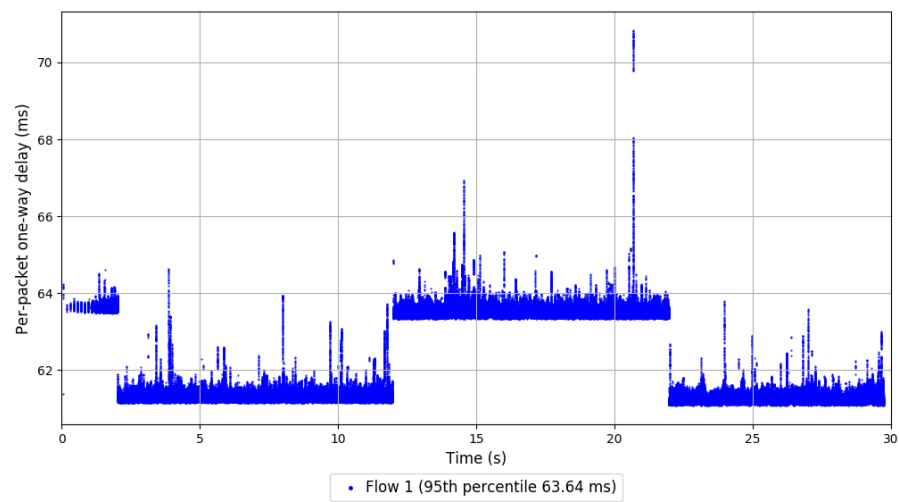
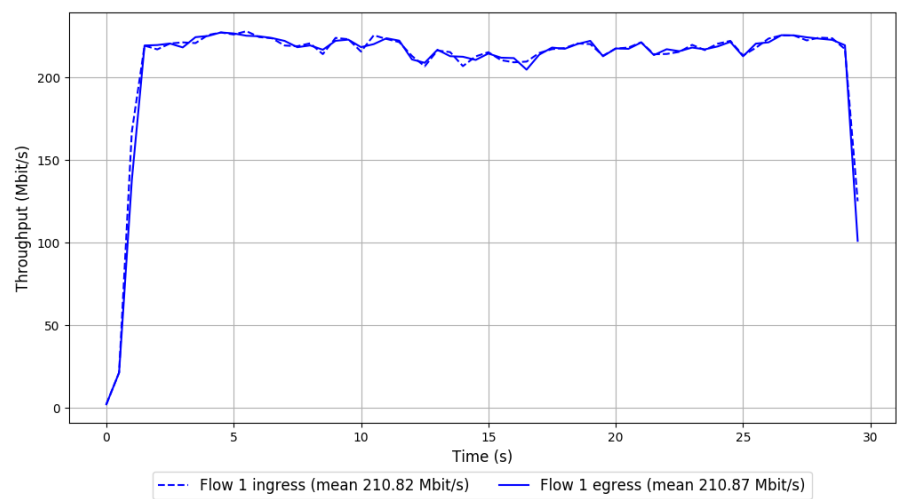
-- Flow 1:

Average throughput: 210.87 Mbit/s

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

Loss rate: 0.40%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 08:54:22

End at: 2017-11-21 08:54:52

Below is generated by plot.py at 2017-11-21 12:02:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.09 Mbit/s

95th percentile per-packet one-way delay: 63.859 ms

Loss rate: 0.42%

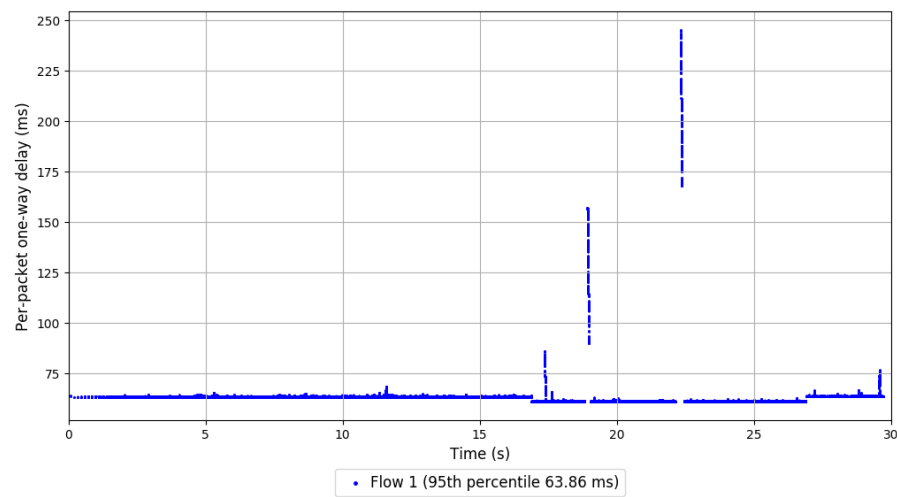
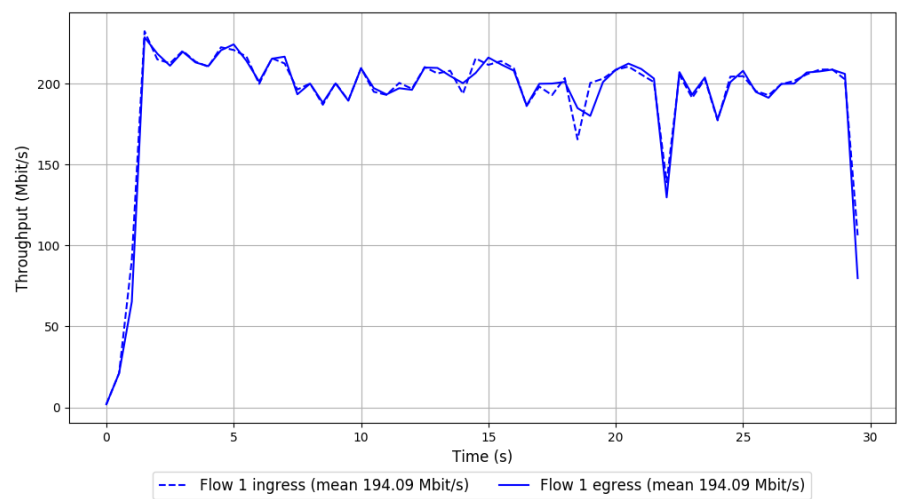
-- Flow 1:

Average throughput: 194.09 Mbit/s

95th percentile per-packet one-way delay: 63.859 ms

Loss rate: 0.42%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

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

End at: 2017-11-21 09:05:22

Below is generated by plot.py at 2017-11-21 12:02:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.24 Mbit/s

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

Loss rate: 0.38%

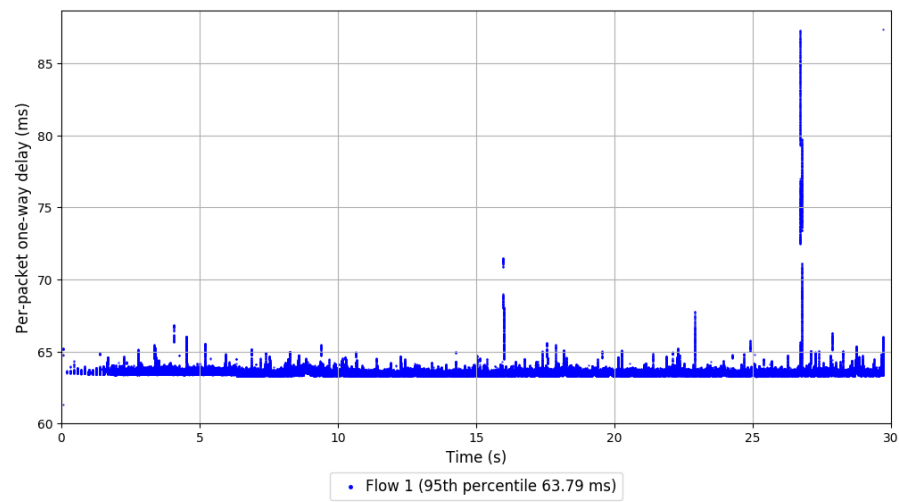
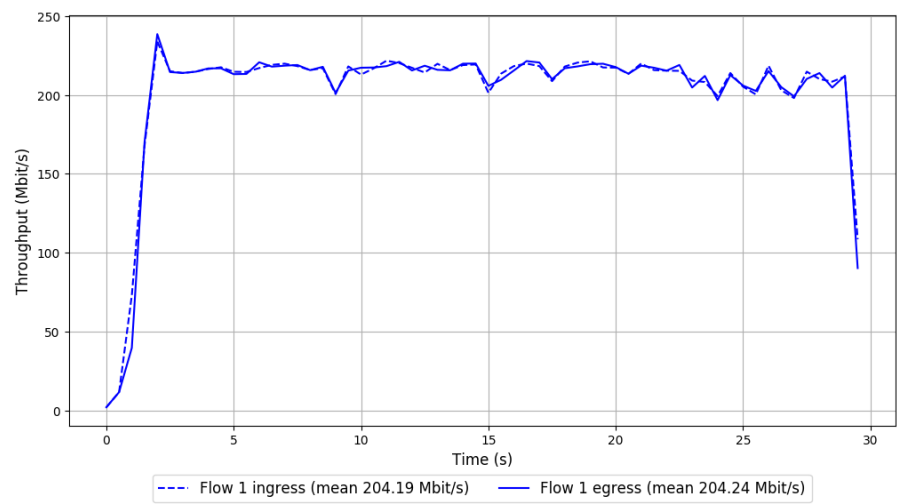
-- Flow 1:

Average throughput: 204.24 Mbit/s

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

Loss rate: 0.38%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 09:15:18

End at: 2017-11-21 09:15:48

Below is generated by plot.py at 2017-11-21 12:02:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.53 Mbit/s

95th percentile per-packet one-way delay: 64.190 ms

Loss rate: 0.64%

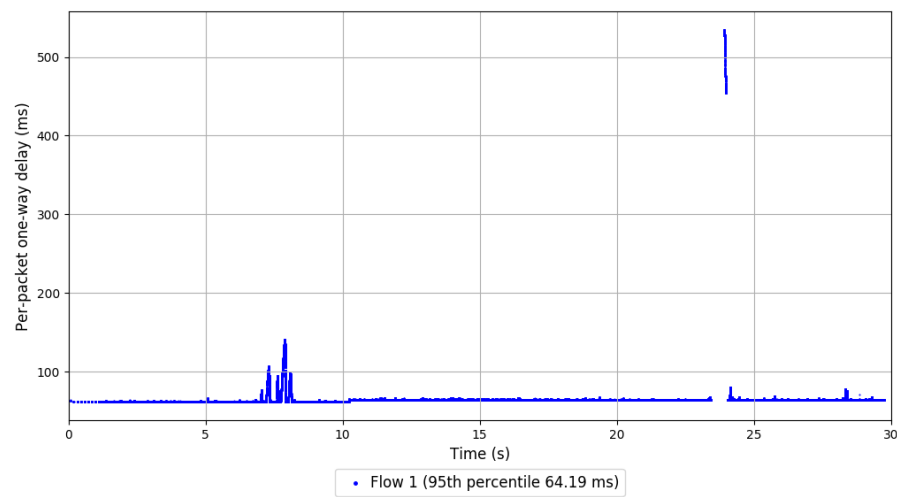
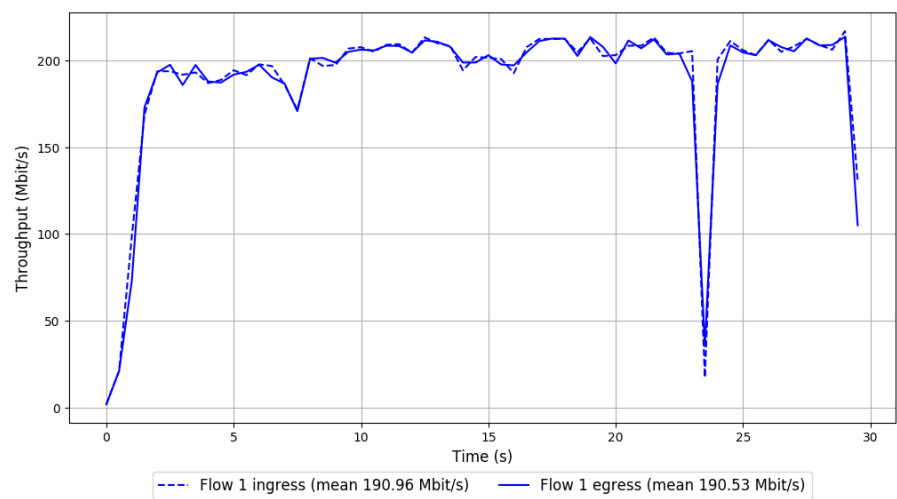
-- Flow 1:

Average throughput: 190.53 Mbit/s

95th percentile per-packet one-way delay: 64.190 ms

Loss rate: 0.64%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 09:25:41

End at: 2017-11-21 09:26:11

Below is generated by plot.py at 2017-11-21 12:03:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.11 Mbit/s

95th percentile per-packet one-way delay: 63.842 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 203.11 Mbit/s

95th percentile per-packet one-way delay: 63.842 ms

Loss rate: 0.45%

Run 10: Report of Indigo-calib — Data Link

