

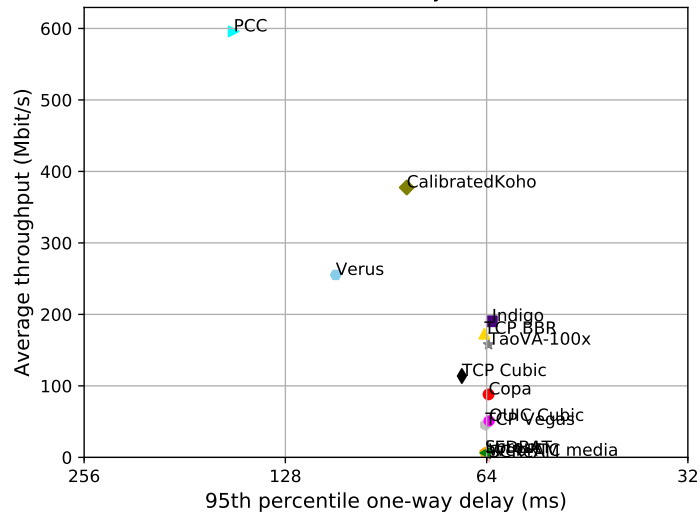
Pantheon Report

Generated at 2017-10-11 08:42:47 (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**).

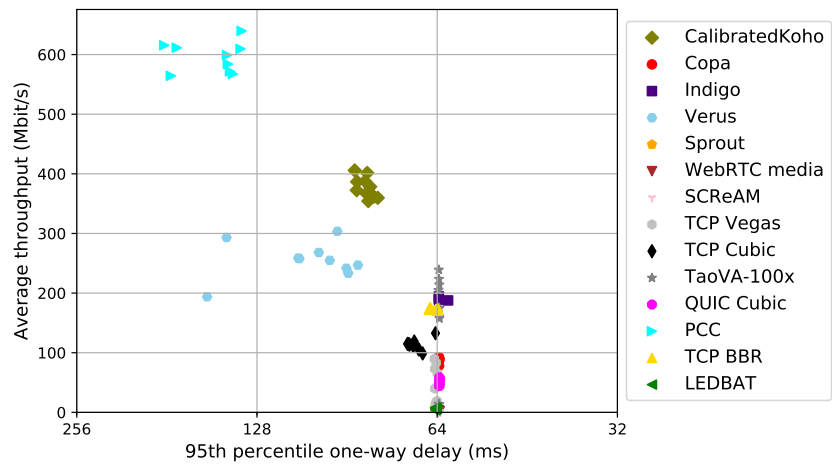
Git summary:

```
branch: indigos @ 45998d6404be7c5106956530acb9cfc43bd06e7d
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
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	172.92	64.51	0.46
TCP Cubic	10	113.80	69.70	0.49
LEDBAT	8	6.17	64.32	0.63
PCC	9	595.85	152.96	2.05
QUIC Cubic	10	51.01	63.45	0.64
SCReAM	10	0.22	63.53	0.39
WebRTC media	10	2.22	63.57	0.51
Sprout	10	6.59	64.37	0.41
TaoVA-100x	10	157.69	63.56	0.68
TCP Vegas	10	45.48	64.29	0.47
Verus	10	255.20	107.62	1.65
Copa	9	88.04	63.58	0.37
CalibratedKoho	10	377.50	84.28	0.54
Indigo	3	190.41	62.86	0.42

Run 1: Statistics of TCP BBR

Start at: 2017-10-11 04:19:14

End at: 2017-10-11 04:19:44

Below is generated by plot.py at 2017-10-11 07:59:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.62 Mbit/s

95th percentile per-packet one-way delay: 64.126 ms

Loss rate: 0.47%

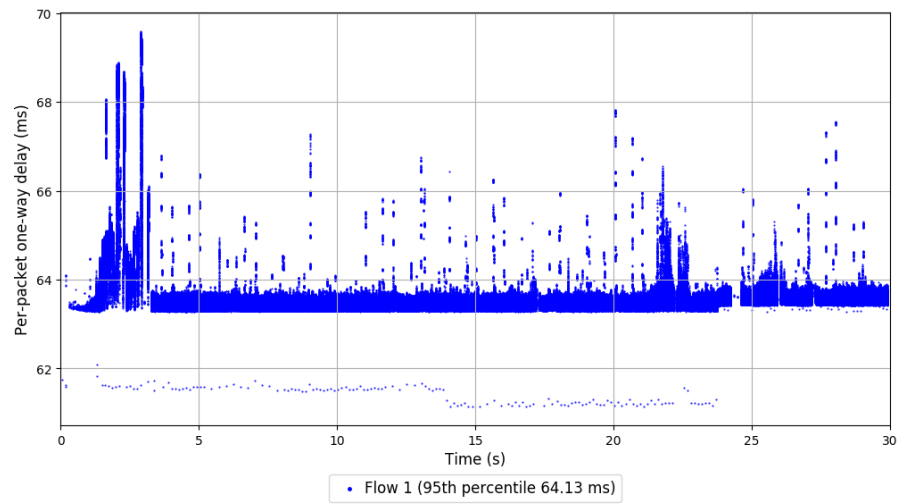
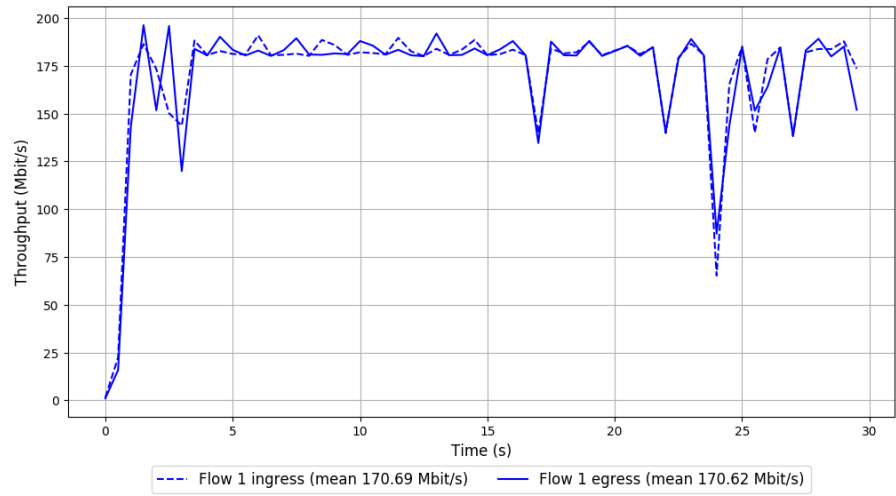
-- Flow 1:

Average throughput: 170.62 Mbit/s

95th percentile per-packet one-way delay: 64.126 ms

Loss rate: 0.47%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-10-11 04:29:57

End at: 2017-10-11 04:30:27

Below is generated by plot.py at 2017-10-11 07:59:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.50 Mbit/s

95th percentile per-packet one-way delay: 63.781 ms

Loss rate: 0.44%

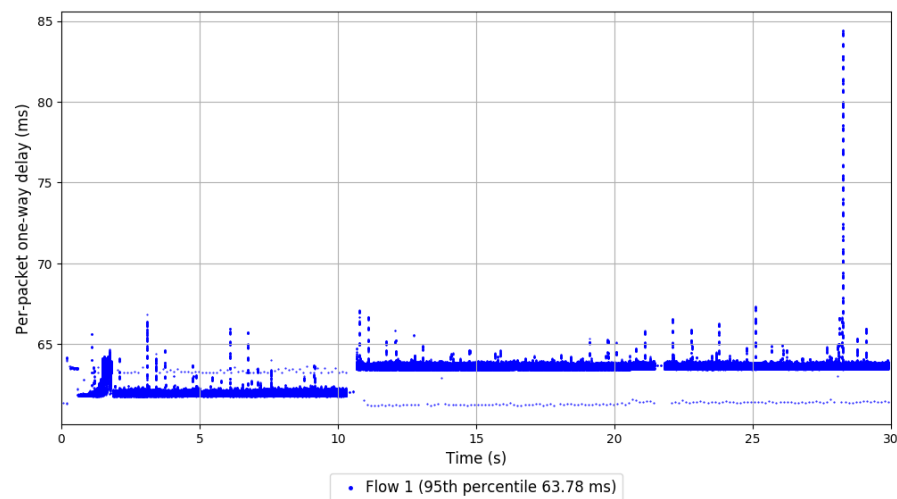
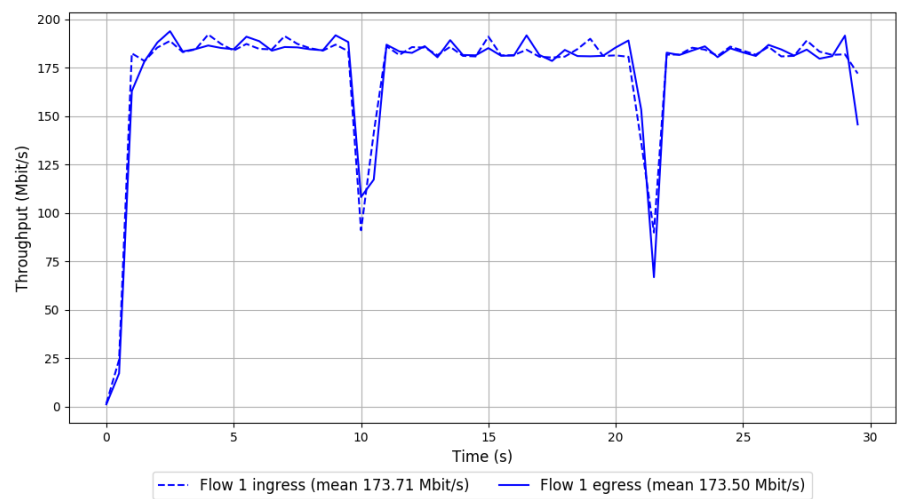
-- Flow 1:

Average throughput: 173.50 Mbit/s

95th percentile per-packet one-way delay: 63.781 ms

Loss rate: 0.44%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-10-11 04:40:33

End at: 2017-10-11 04:41:03

Below is generated by plot.py at 2017-10-11 07:59:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.12 Mbit/s

95th percentile per-packet one-way delay: 66.112 ms

Loss rate: 0.52%

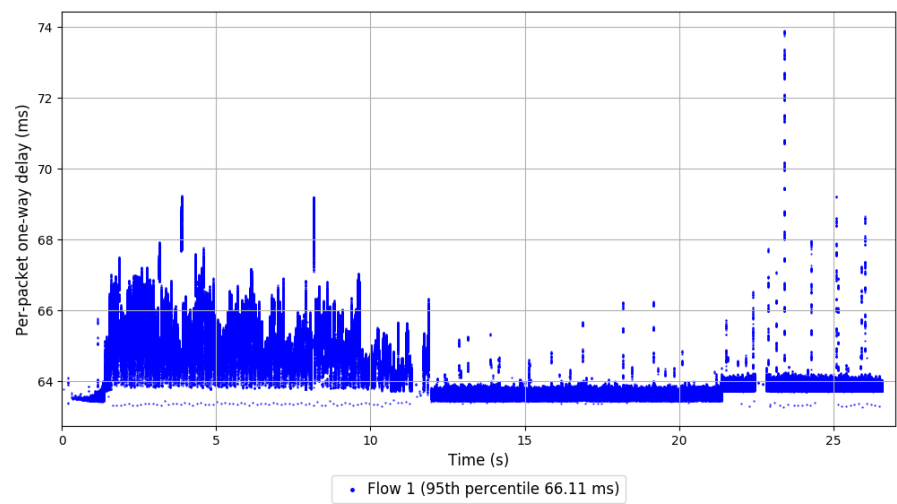
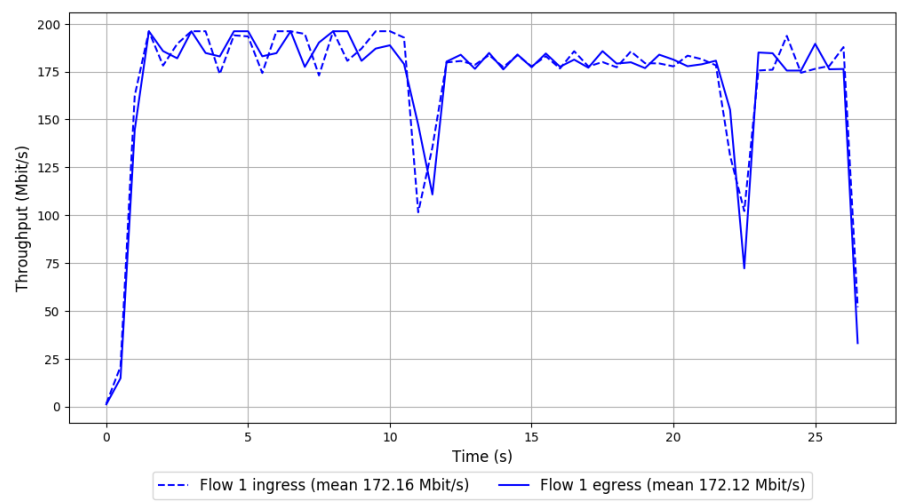
-- Flow 1:

Average throughput: 172.12 Mbit/s

95th percentile per-packet one-way delay: 66.112 ms

Loss rate: 0.52%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-10-11 04:51:13

End at: 2017-10-11 04:51:43

Below is generated by plot.py at 2017-10-11 07:59:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.49 Mbit/s

95th percentile per-packet one-way delay: 64.301 ms

Loss rate: 0.44%

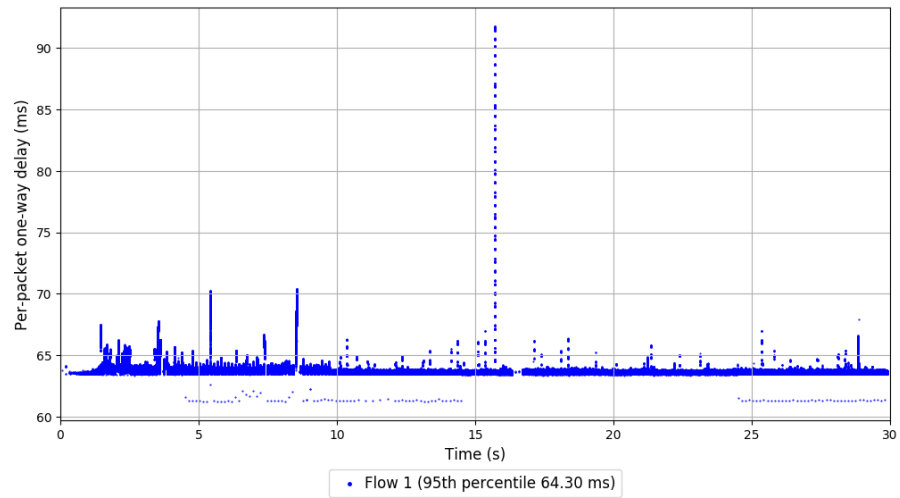
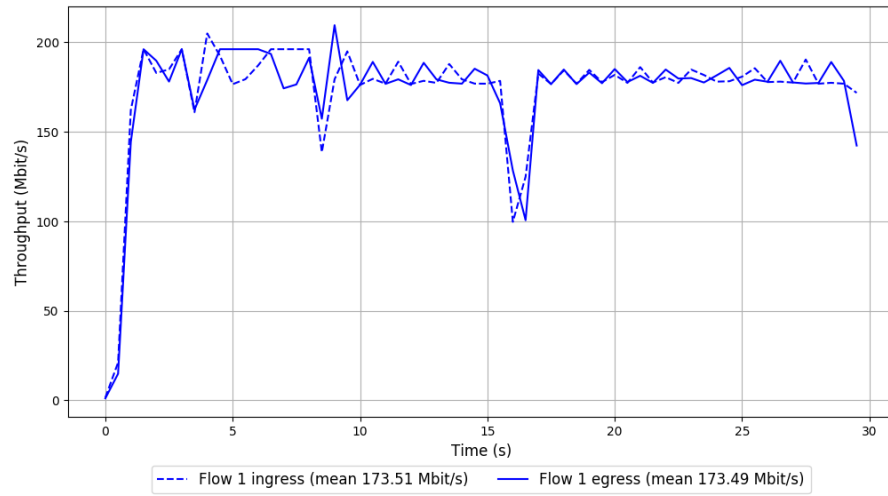
-- Flow 1:

Average throughput: 173.49 Mbit/s

95th percentile per-packet one-way delay: 64.301 ms

Loss rate: 0.44%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-10-11 05:01:52

End at: 2017-10-11 05:02:22

Below is generated by plot.py at 2017-10-11 07:59:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.38 Mbit/s

95th percentile per-packet one-way delay: 65.727 ms

Loss rate: 0.43%

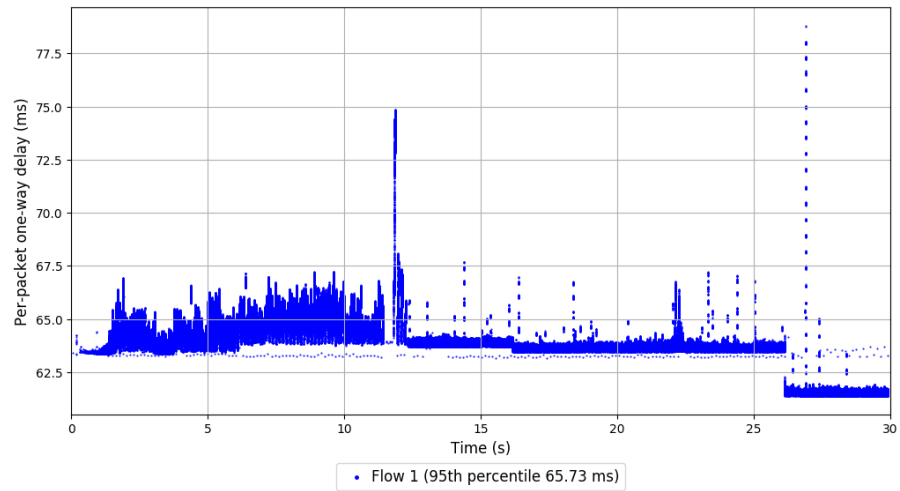
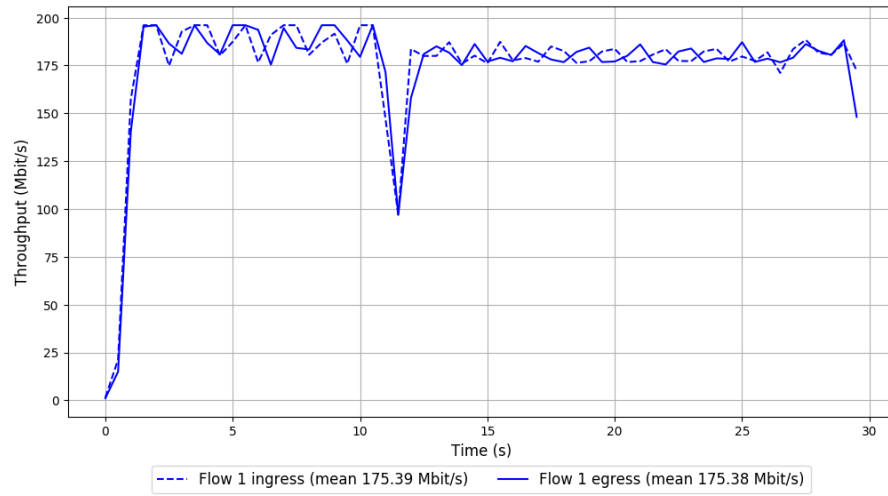
-- Flow 1:

Average throughput: 175.38 Mbit/s

95th percentile per-packet one-way delay: 65.727 ms

Loss rate: 0.43%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-10-11 05:12:33

End at: 2017-10-11 05:13:03

Below is generated by plot.py at 2017-10-11 07:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.58 Mbit/s

95th percentile per-packet one-way delay: 65.747 ms

Loss rate: 0.43%

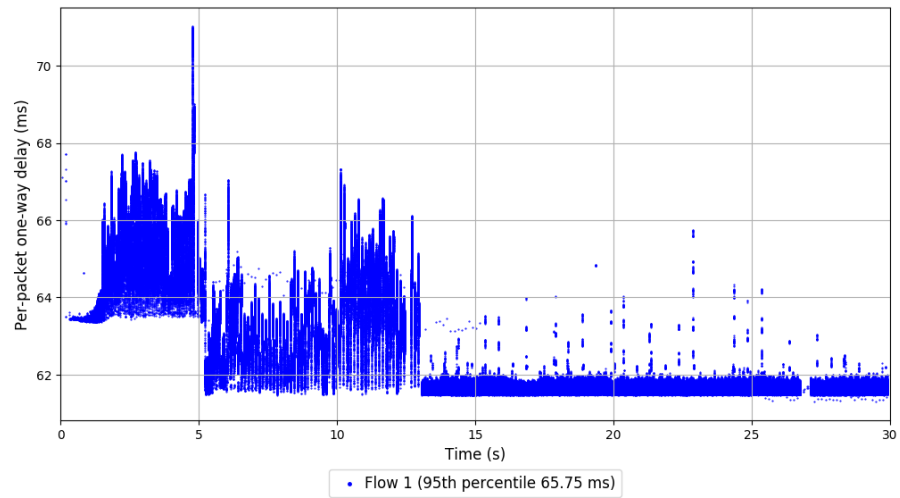
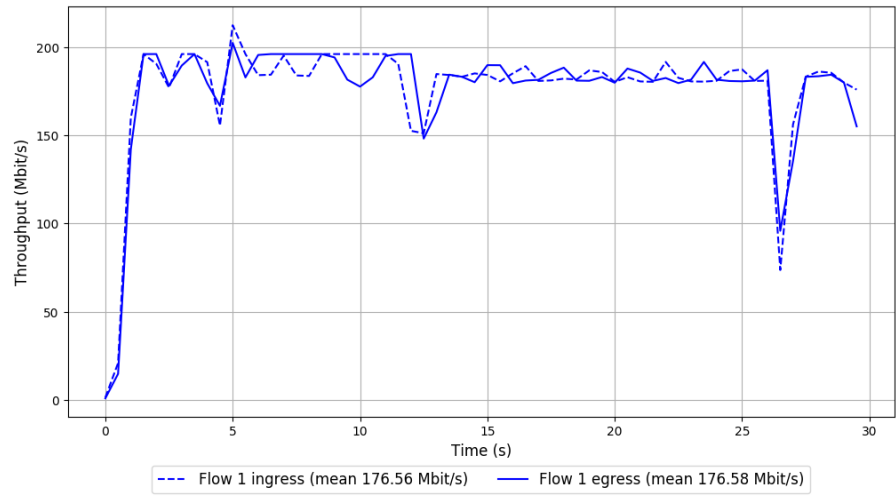
-- Flow 1:

Average throughput: 176.58 Mbit/s

95th percentile per-packet one-way delay: 65.747 ms

Loss rate: 0.43%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-10-11 05:23:13

End at: 2017-10-11 05:23:43

Below is generated by plot.py at 2017-10-11 07:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.25 Mbit/s

95th percentile per-packet one-way delay: 63.770 ms

Loss rate: 0.47%

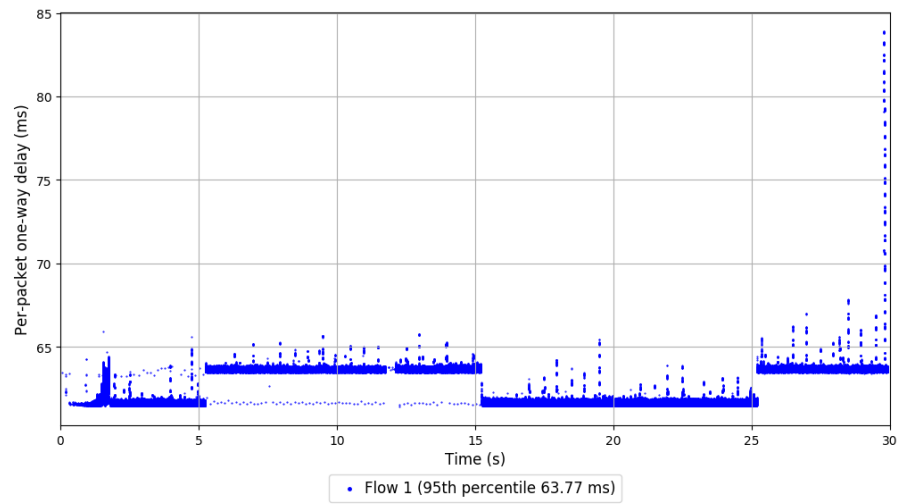
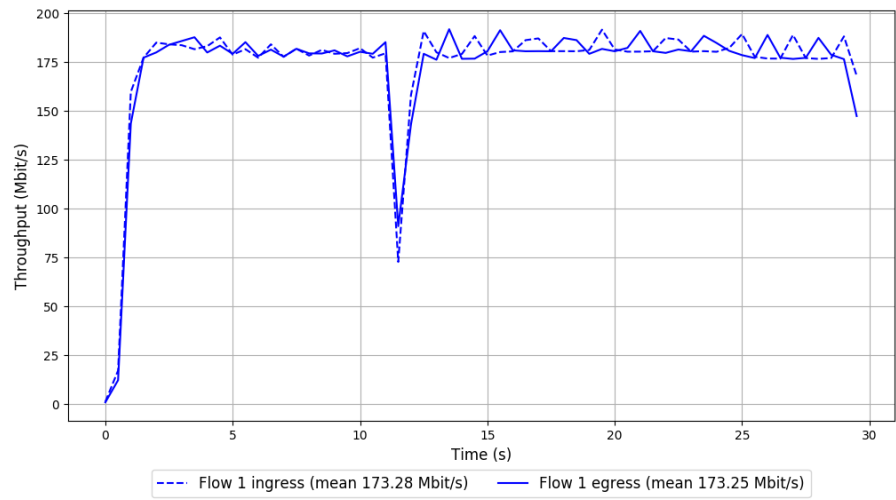
-- Flow 1:

Average throughput: 173.25 Mbit/s

95th percentile per-packet one-way delay: 63.770 ms

Loss rate: 0.47%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-10-11 05:33:50

End at: 2017-10-11 05:34:20

Below is generated by plot.py at 2017-10-11 07:59:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.90 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.48%

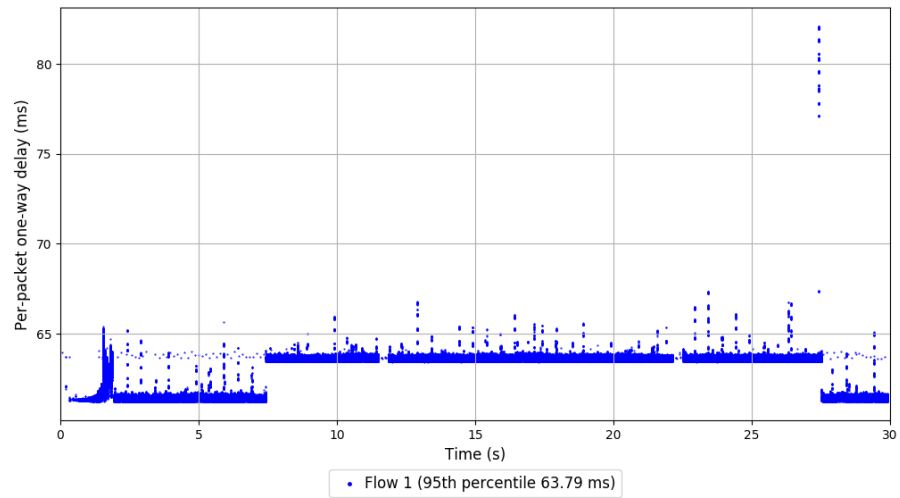
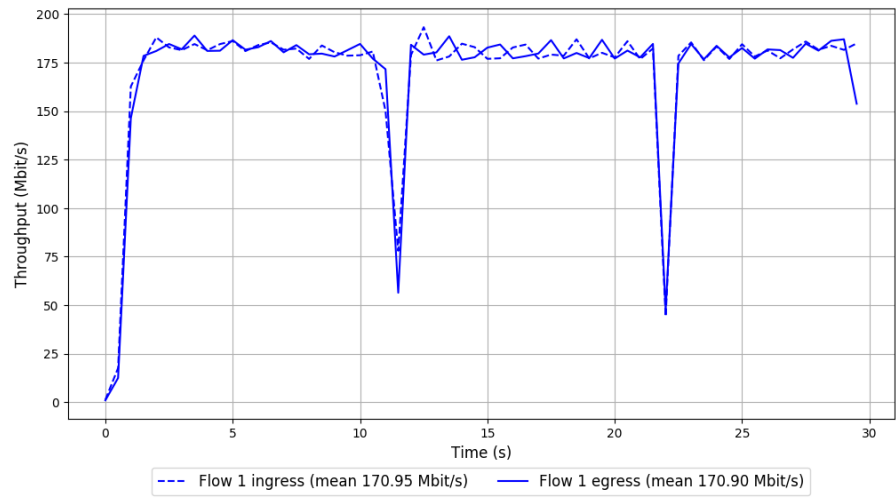
-- Flow 1:

Average throughput: 170.90 Mbit/s

95th percentile per-packet one-way delay: 63.794 ms

Loss rate: 0.48%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-10-11 05:44:25

End at: 2017-10-11 05:44:55

Below is generated by plot.py at 2017-10-11 08:02:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.19 Mbit/s

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

Loss rate: 0.44%

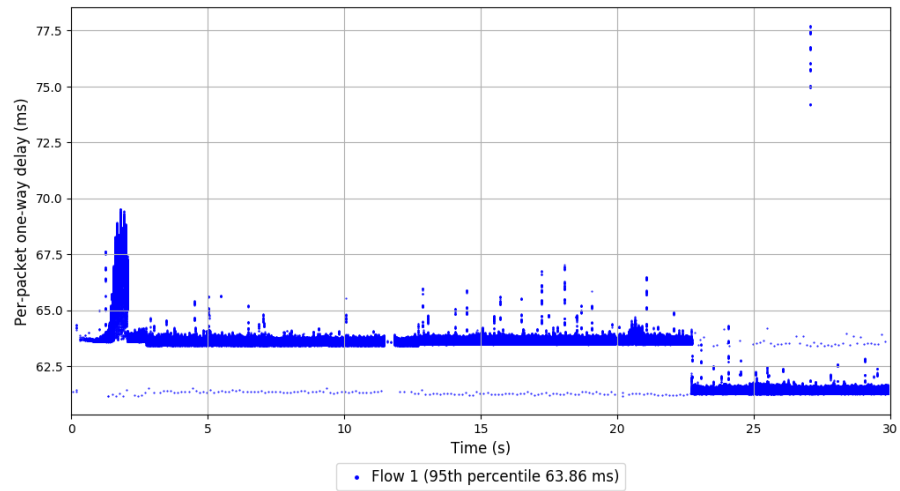
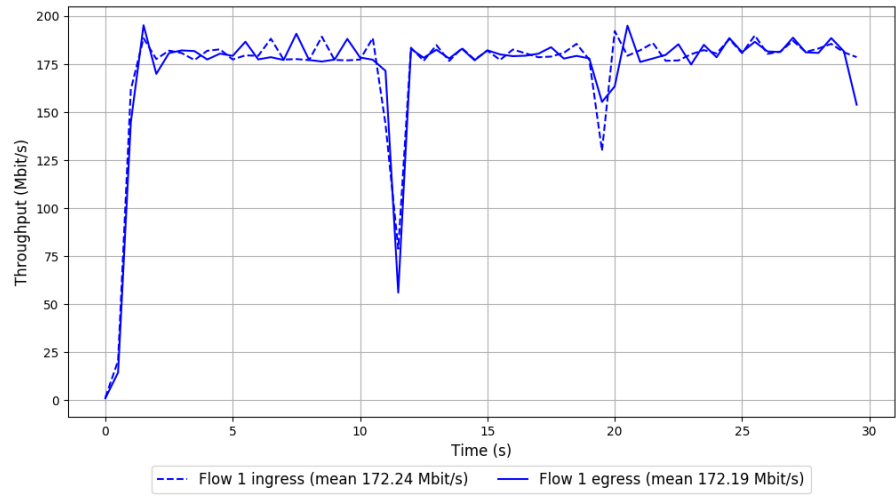
-- Flow 1:

Average throughput: 172.19 Mbit/s

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

Loss rate: 0.44%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-10-11 05:54:42

End at: 2017-10-11 05:55:12

Below is generated by plot.py at 2017-10-11 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.15 Mbit/s

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

Loss rate: 0.44%

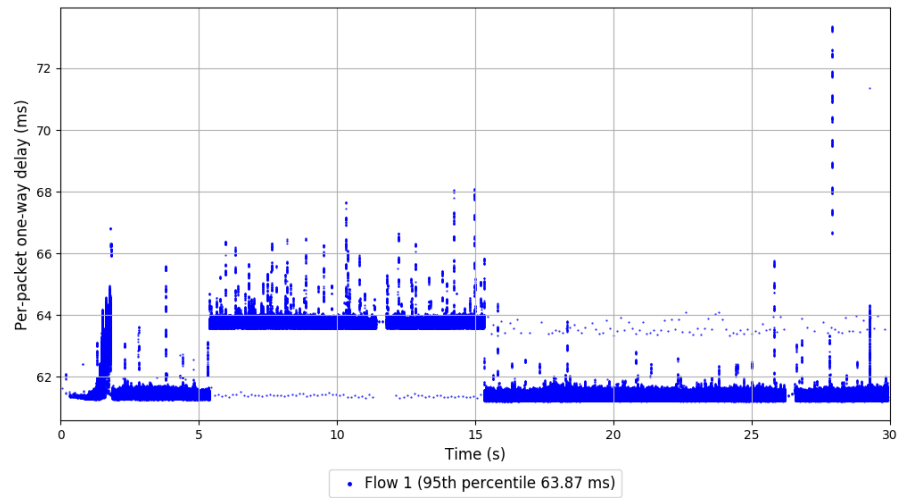
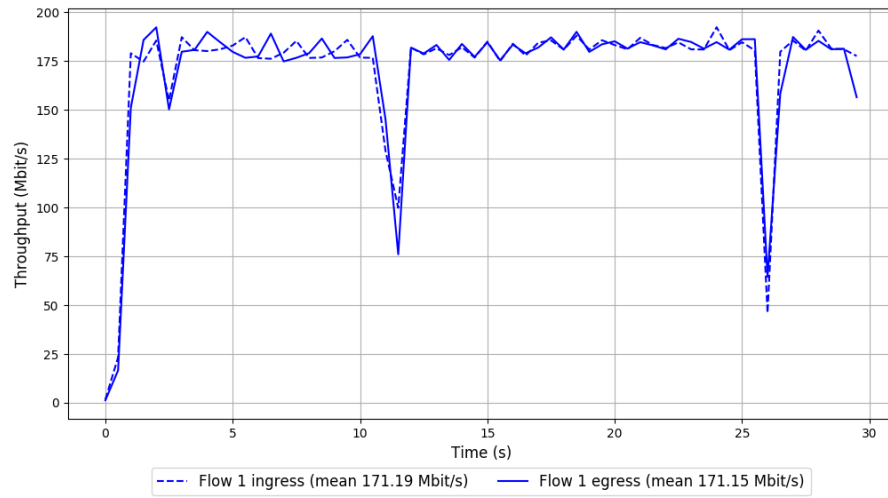
-- Flow 1:

Average throughput: 171.15 Mbit/s

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

Loss rate: 0.44%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-10-11 04:24:41

End at: 2017-10-11 04:25:11

Below is generated by plot.py at 2017-10-11 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.82 Mbit/s

95th percentile per-packet one-way delay: 67.686 ms

Loss rate: 0.45%

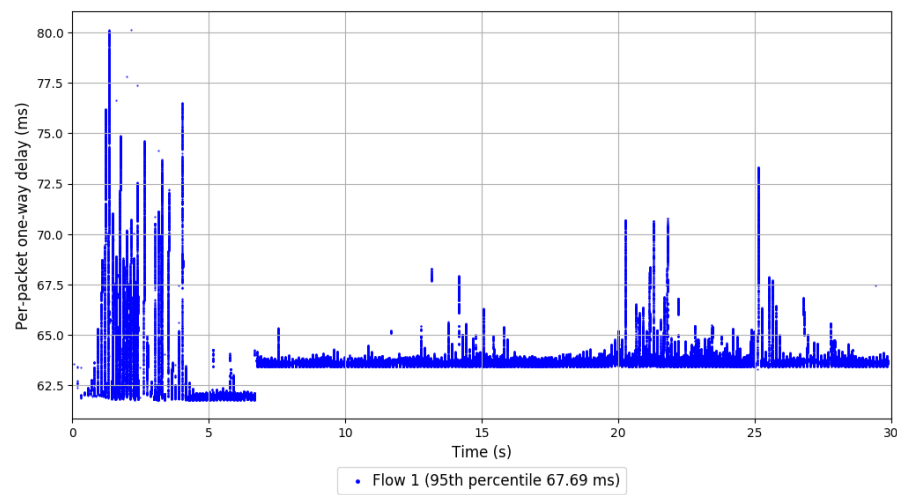
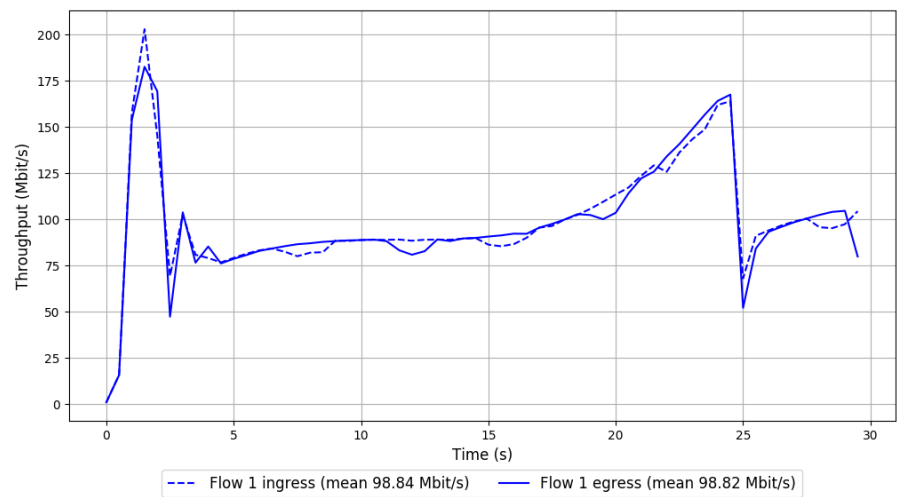
-- Flow 1:

Average throughput: 98.82 Mbit/s

95th percentile per-packet one-way delay: 67.686 ms

Loss rate: 0.45%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-10-11 04:35:22

End at: 2017-10-11 04:35:52

Below is generated by plot.py at 2017-10-11 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.86 Mbit/s

95th percentile per-packet one-way delay: 71.706 ms

Loss rate: 0.72%

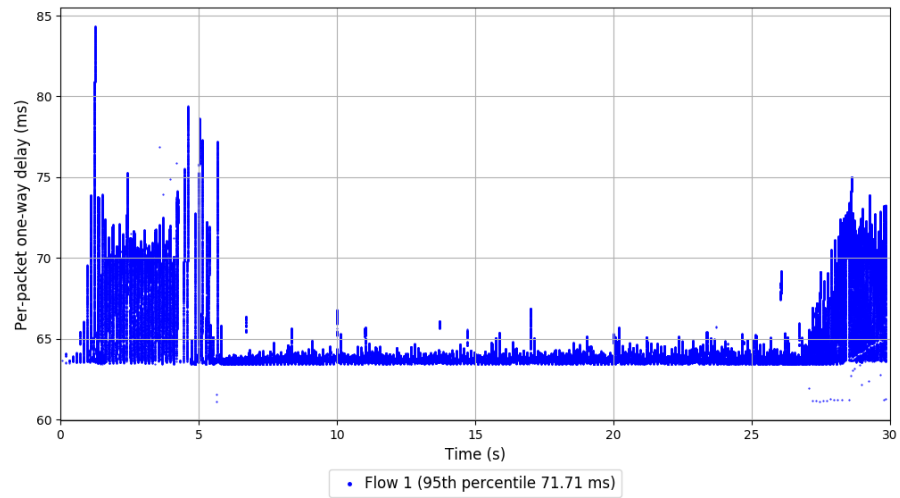
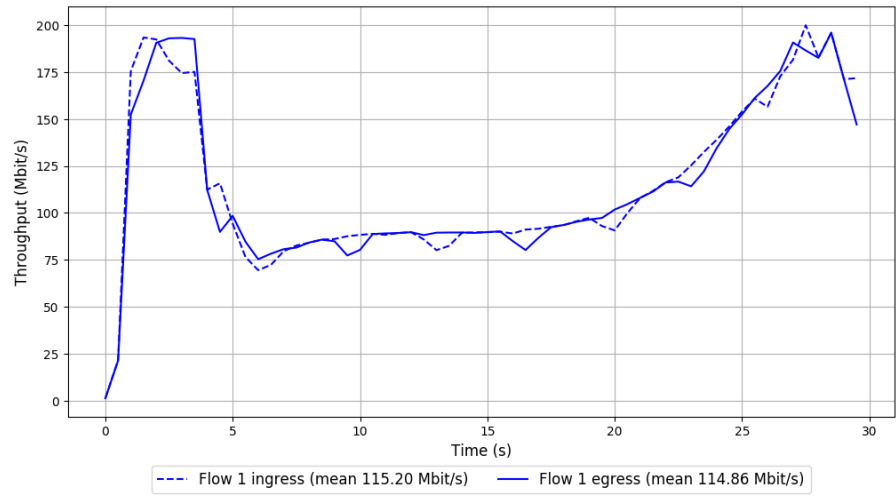
-- Flow 1:

Average throughput: 114.86 Mbit/s

95th percentile per-packet one-way delay: 71.706 ms

Loss rate: 0.72%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-10-11 04:45:58

End at: 2017-10-11 04:46:28

Below is generated by plot.py at 2017-10-11 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.80 Mbit/s

95th percentile per-packet one-way delay: 69.897 ms

Loss rate: 0.46%

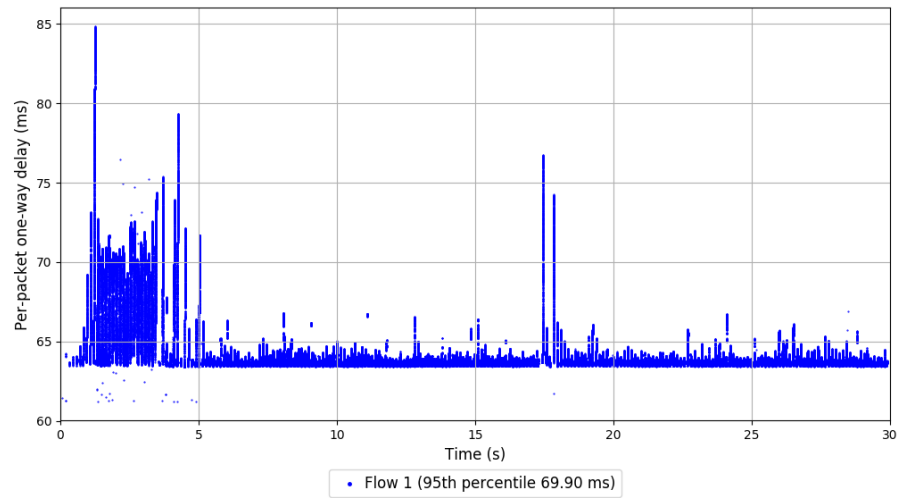
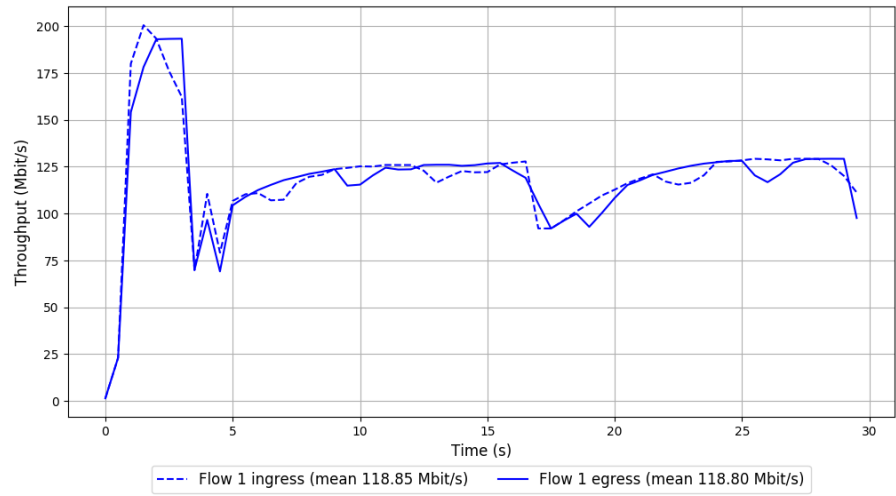
-- Flow 1:

Average throughput: 118.80 Mbit/s

95th percentile per-packet one-way delay: 69.897 ms

Loss rate: 0.46%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-10-11 04:56:41

End at: 2017-10-11 04:57:11

Below is generated by plot.py at 2017-10-11 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.39 Mbit/s

95th percentile per-packet one-way delay: 71.352 ms

Loss rate: 0.27%

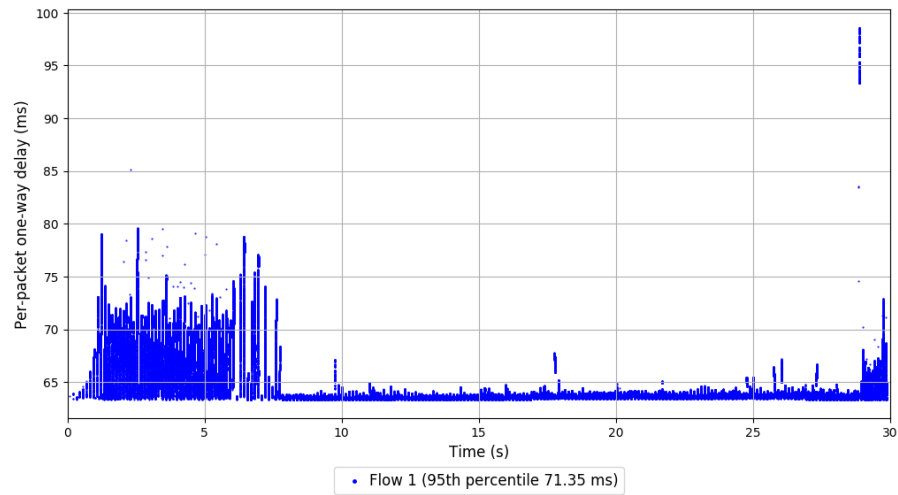
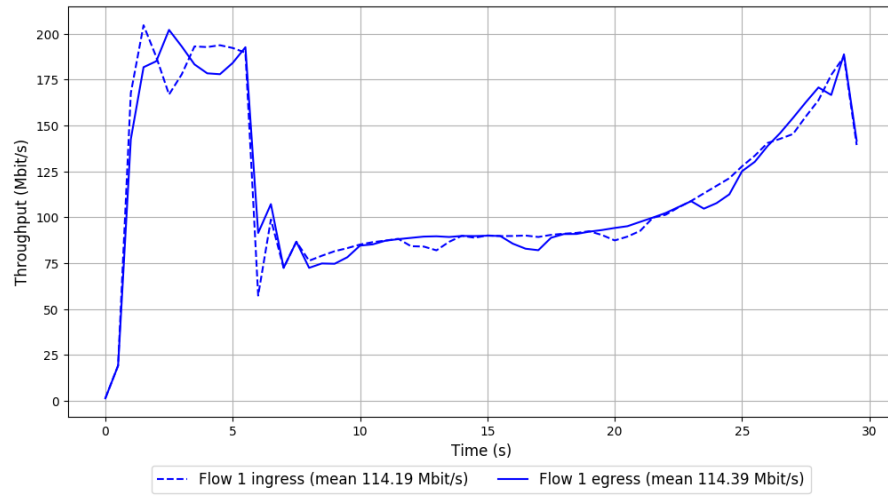
-- Flow 1:

Average throughput: 114.39 Mbit/s

95th percentile per-packet one-way delay: 71.352 ms

Loss rate: 0.27%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-10-11 05:07:18

End at: 2017-10-11 05:07:48

Below is generated by plot.py at 2017-10-11 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.79 Mbit/s

95th percentile per-packet one-way delay: 71.641 ms

Loss rate: 0.71%

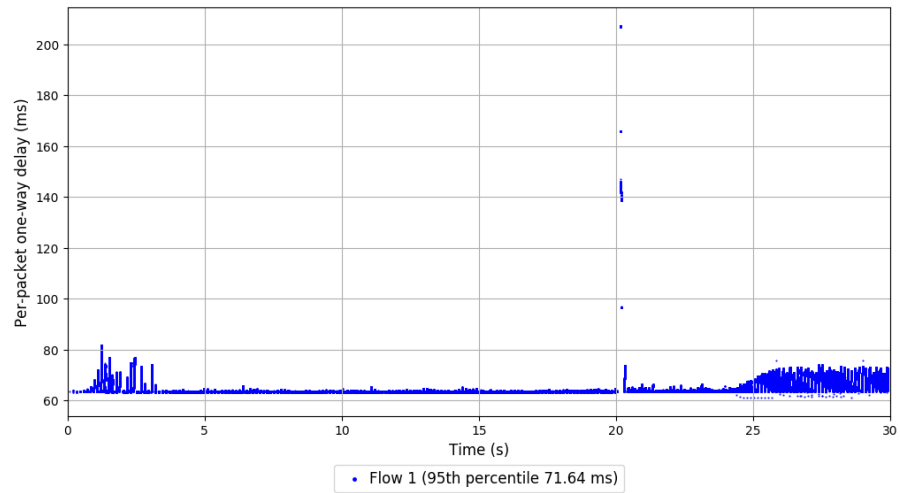
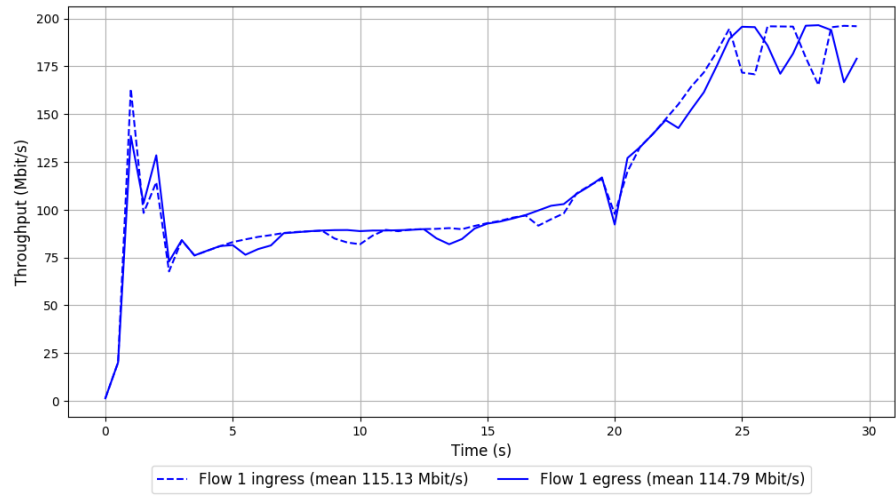
-- Flow 1:

Average throughput: 114.79 Mbit/s

95th percentile per-packet one-way delay: 71.641 ms

Loss rate: 0.71%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-10-11 05:18:01

End at: 2017-10-11 05:18:31

Below is generated by plot.py at 2017-10-11 08:02:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.75 Mbit/s

95th percentile per-packet one-way delay: 64.415 ms

Loss rate: 0.36%

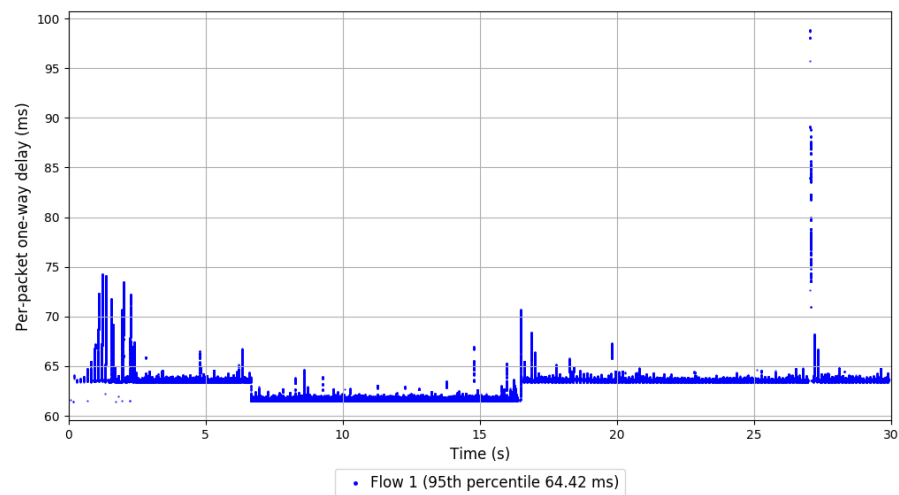
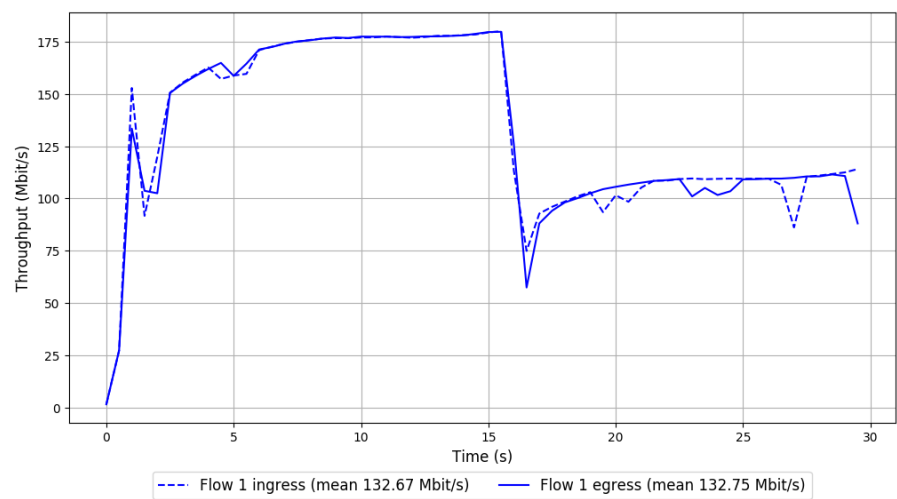
-- Flow 1:

Average throughput: 132.75 Mbit/s

95th percentile per-packet one-way delay: 64.415 ms

Loss rate: 0.36%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-10-11 05:28:39

End at: 2017-10-11 05:29:09

Below is generated by plot.py at 2017-10-11 08:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.33 Mbit/s

95th percentile per-packet one-way delay: 70.295 ms

Loss rate: 0.42%

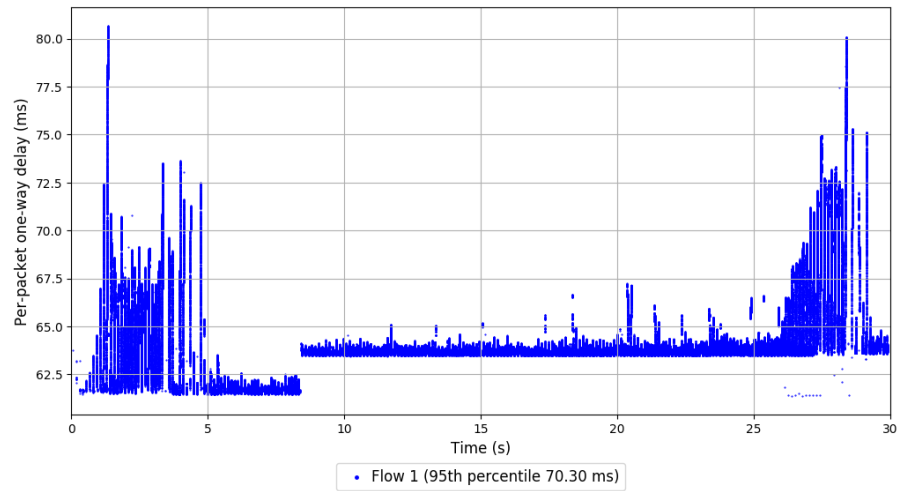
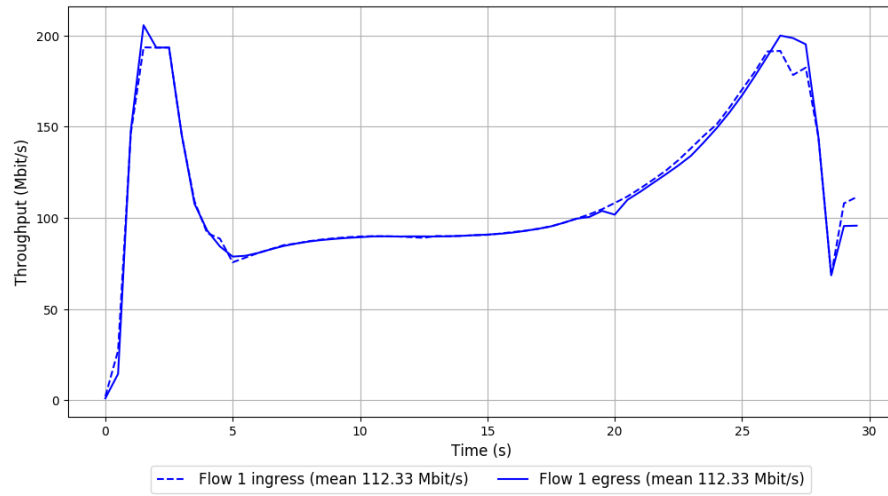
-- Flow 1:

Average throughput: 112.33 Mbit/s

95th percentile per-packet one-way delay: 70.295 ms

Loss rate: 0.42%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-10-11 05:39:17

End at: 2017-10-11 05:39:47

Below is generated by plot.py at 2017-10-11 08:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.12 Mbit/s

95th percentile per-packet one-way delay: 70.096 ms

Loss rate: 0.35%

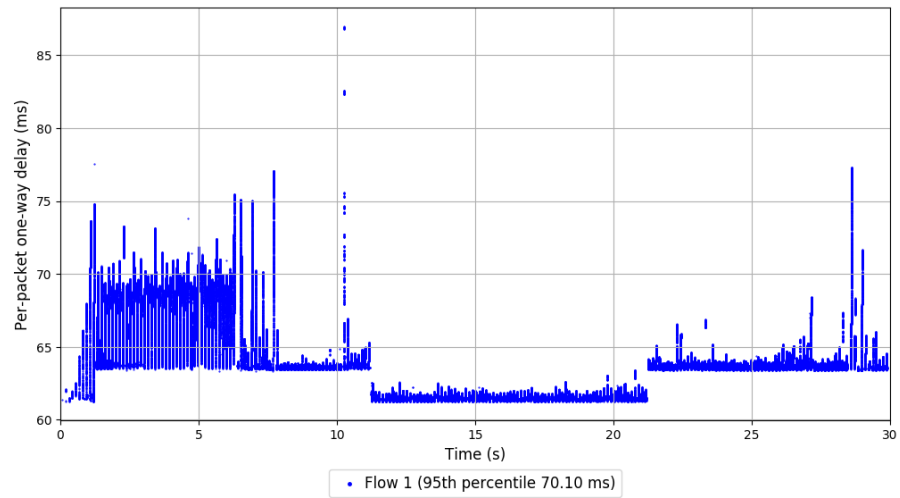
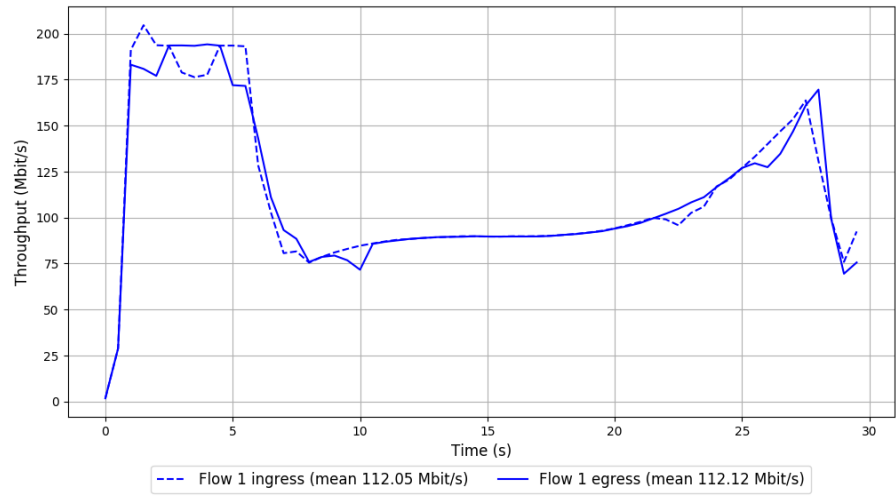
-- Flow 1:

Average throughput: 112.12 Mbit/s

95th percentile per-packet one-way delay: 70.096 ms

Loss rate: 0.35%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-10-11 05:49:56

End at: 2017-10-11 05:50:26

Below is generated by plot.py at 2017-10-11 08:03:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.59 Mbit/s

95th percentile per-packet one-way delay: 68.702 ms

Loss rate: 0.34%

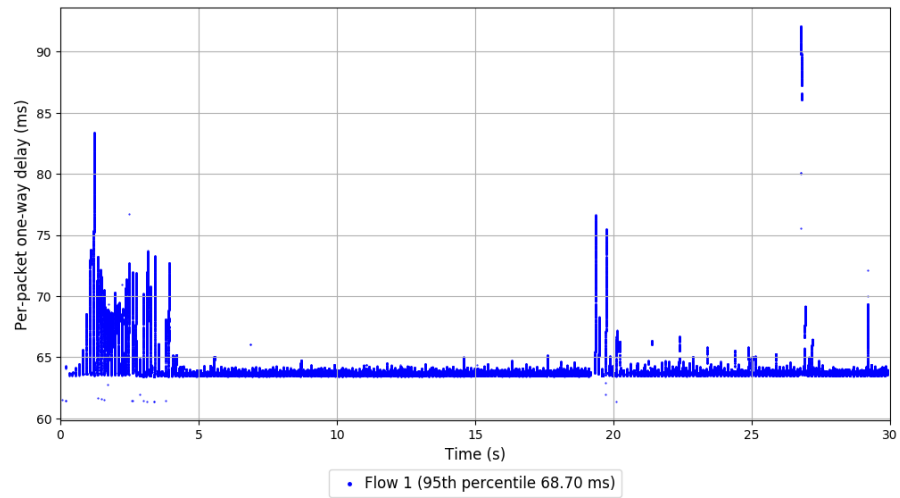
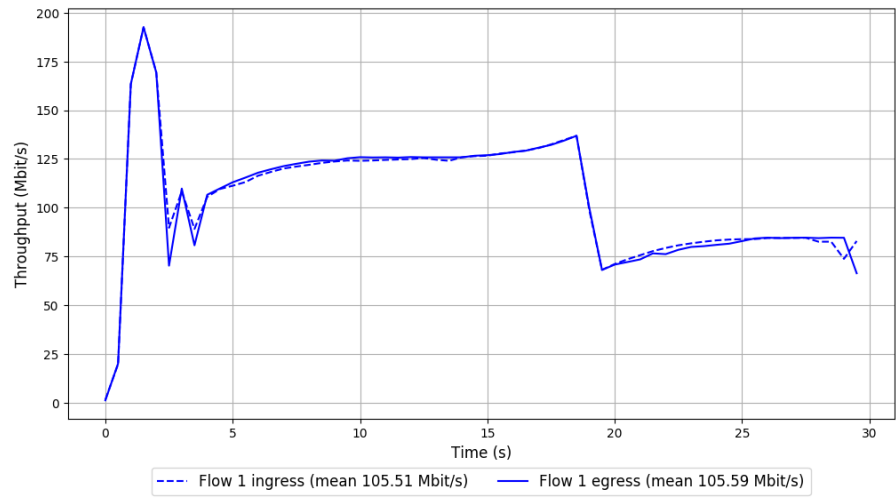
-- Flow 1:

Average throughput: 105.59 Mbit/s

95th percentile per-packet one-way delay: 68.702 ms

Loss rate: 0.34%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-10-11 06:00:10

End at: 2017-10-11 06:00:40

Below is generated by plot.py at 2017-10-11 08:03:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.51 Mbit/s

95th percentile per-packet one-way delay: 71.193 ms

Loss rate: 0.79%

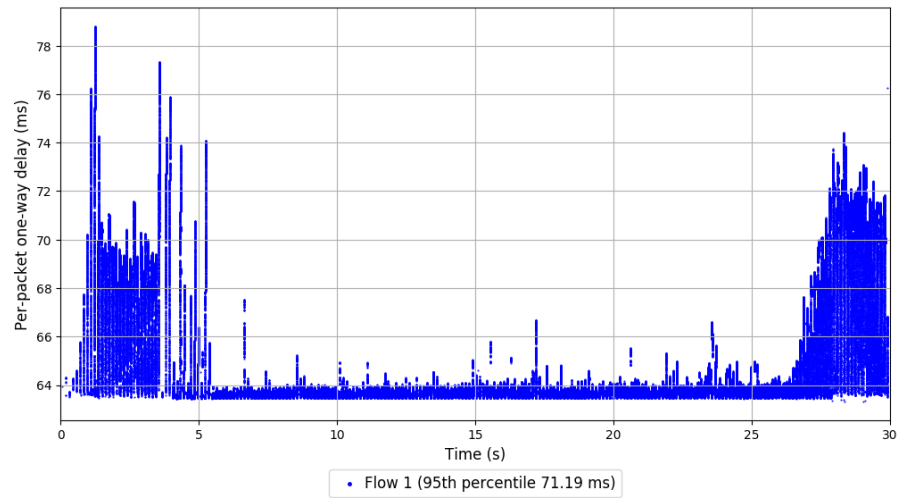
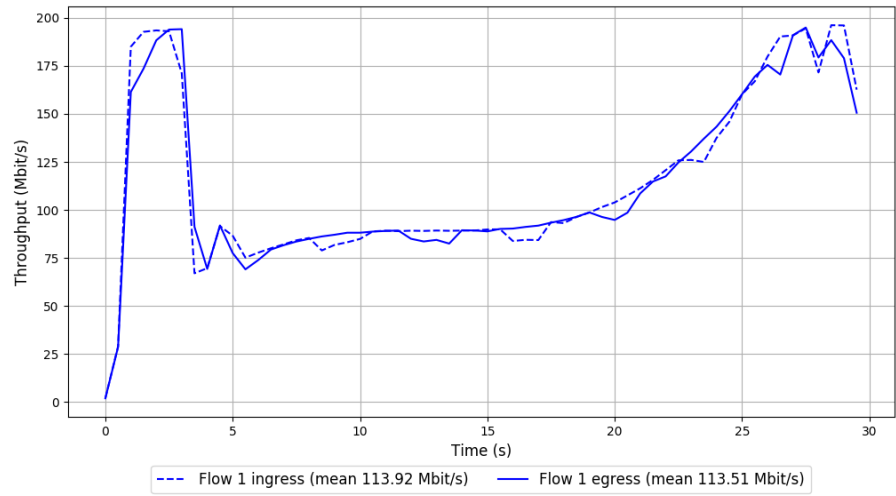
-- Flow 1:

Average throughput: 113.51 Mbit/s

95th percentile per-packet one-way delay: 71.193 ms

Loss rate: 0.79%

Run 10: Report of TCP Cubic — Data Link

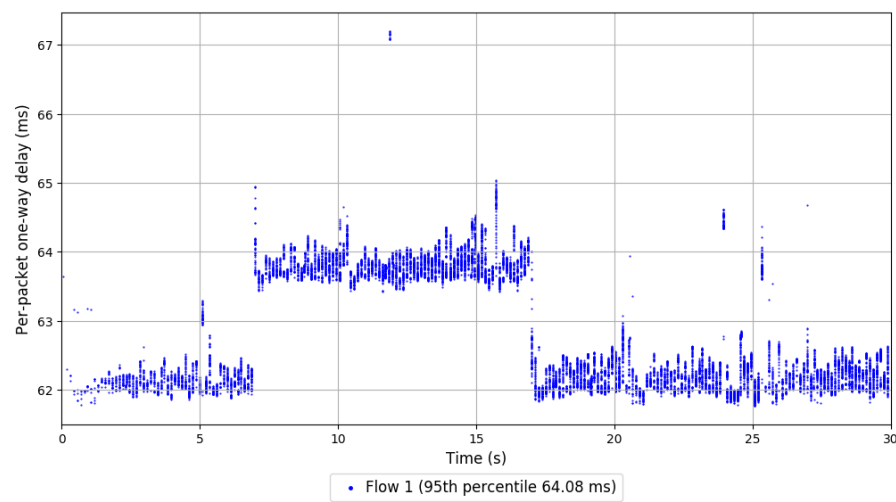
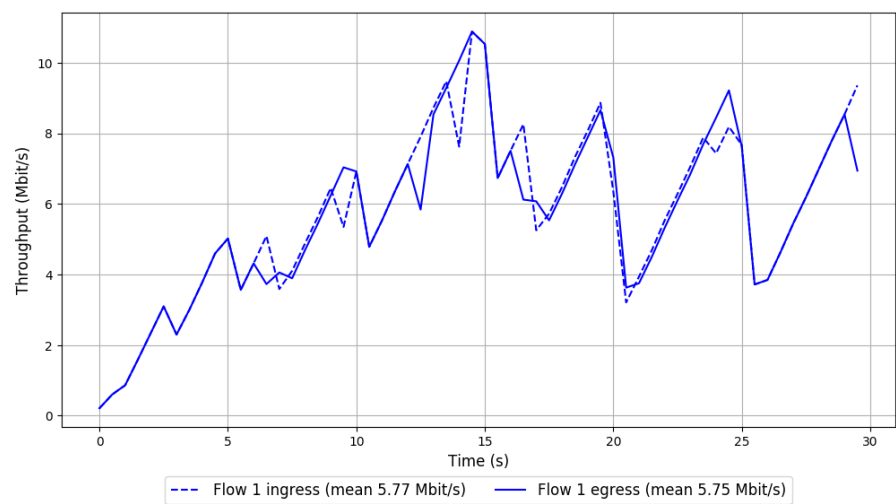


```
Run 1: Statistics of LEDBAT

Start at: 2017-10-11 04:20:01
End at: 2017-10-11 04:20:31

# Below is generated by plot.py at 2017-10-11 08:03:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.75 Mbit/s
95th percentile per-packet one-way delay: 64.075 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 5.75 Mbit/s
95th percentile per-packet one-way delay: 64.075 ms
Loss rate: 0.73%
```


Run 1: Report of LEDBAT — Data Link

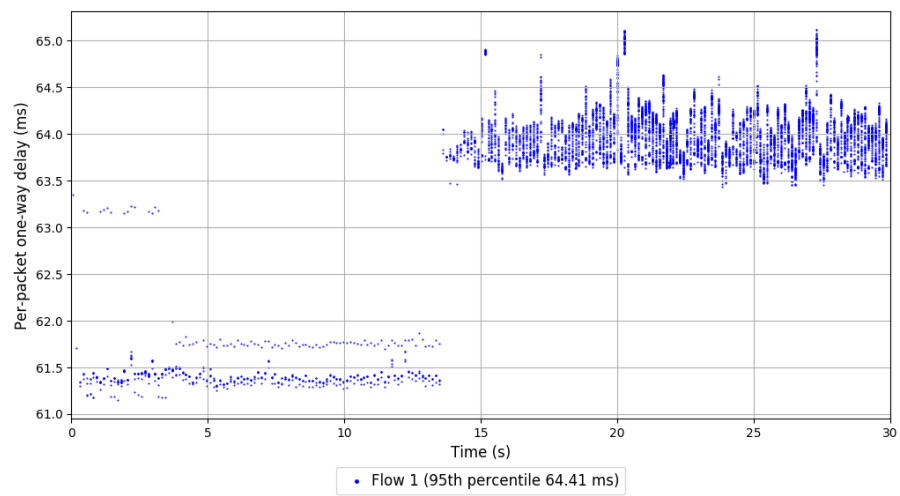
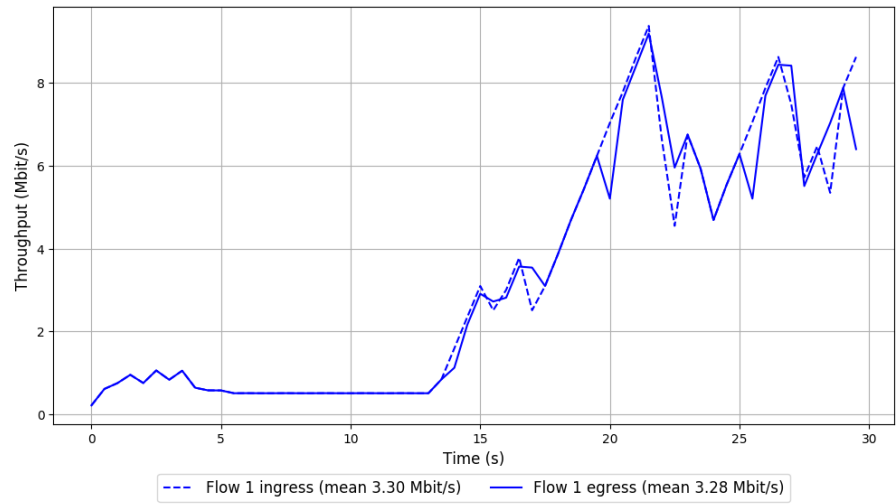


```
Run 2: Statistics of LEDBAT

Start at: 2017-10-11 04:30:44
End at: 2017-10-11 04:31:14

# Below is generated by plot.py at 2017-10-11 08:03:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 64.405 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 3.28 Mbit/s
95th percentile per-packet one-way delay: 64.405 ms
Loss rate: 1.13%
```

Run 2: Report of LEDBAT — Data Link

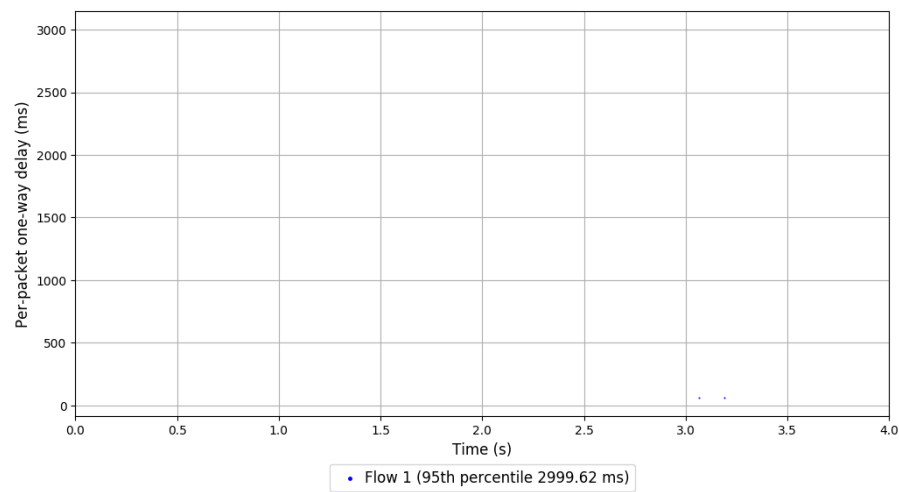
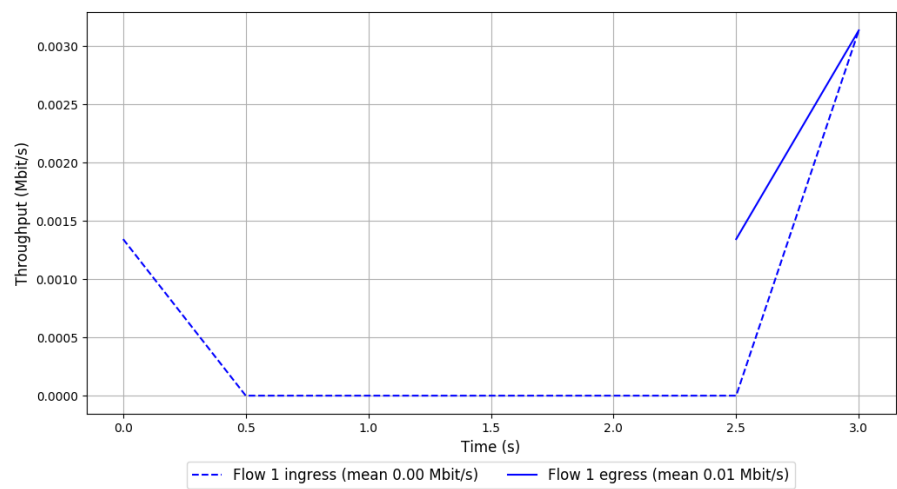


Run 3: Statistics of LEDBAT

Start at: 2017-10-11 04:41:19

End at: 2017-10-11 04:41:49

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-10-11 04:52:00

End at: 2017-10-11 04:52:30

Below is generated by plot.py at 2017-10-11 08:03:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.63 Mbit/s

95th percentile per-packet one-way delay: 64.377 ms

Loss rate: 0.50%

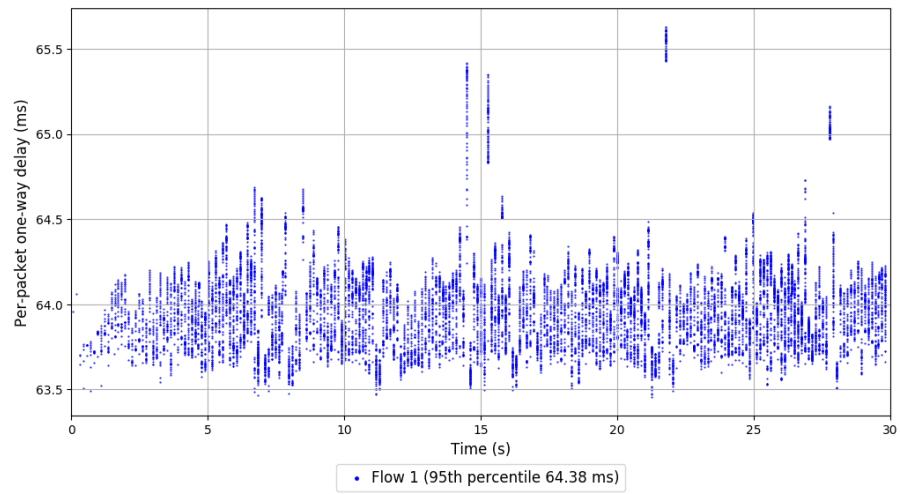
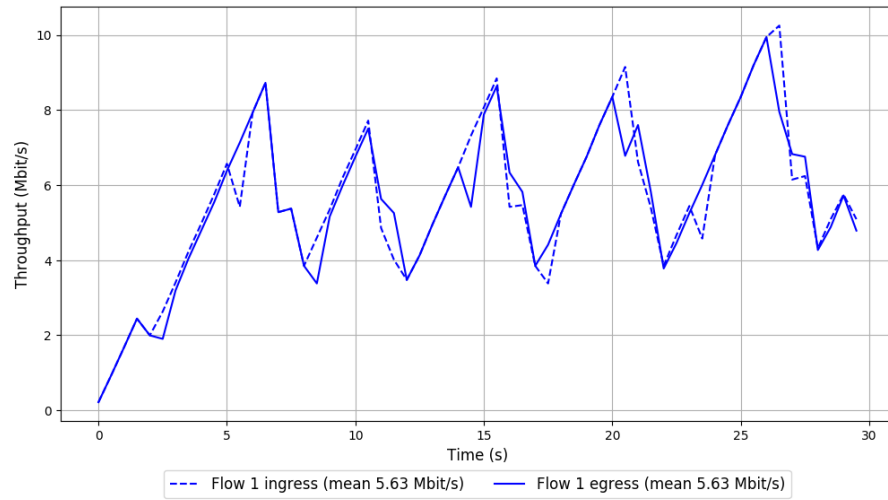
-- Flow 1:

Average throughput: 5.63 Mbit/s

95th percentile per-packet one-way delay: 64.377 ms

Loss rate: 0.50%

Run 4: Report of LEDBAT — Data Link

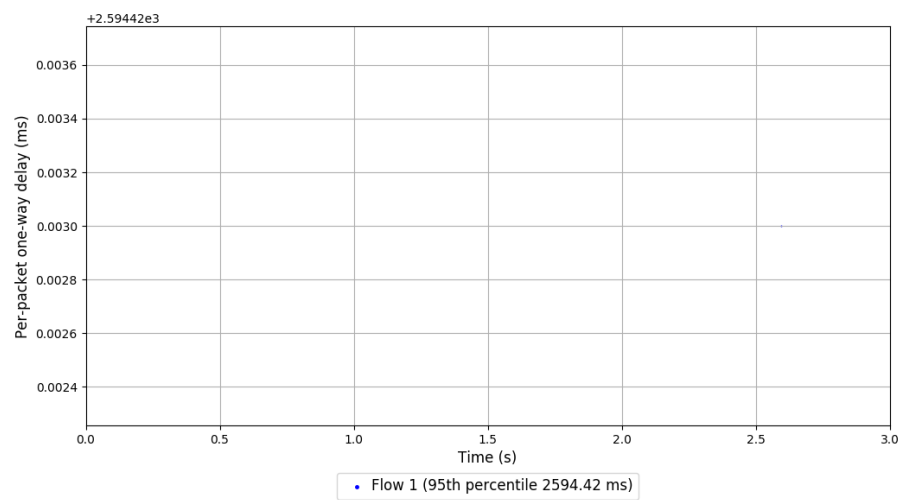
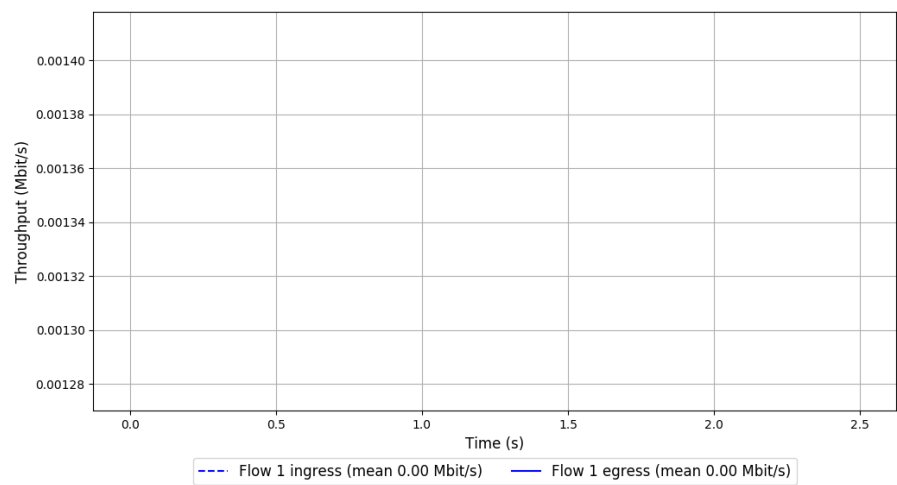


Run 5: Statistics of LEDBAT

Start at: 2017-10-11 05:02:38

End at: 2017-10-11 05:03:08

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-10-11 05:13:19

End at: 2017-10-11 05:13:50

Below is generated by plot.py at 2017-10-11 08:03:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 64.140 ms

Loss rate: 0.36%

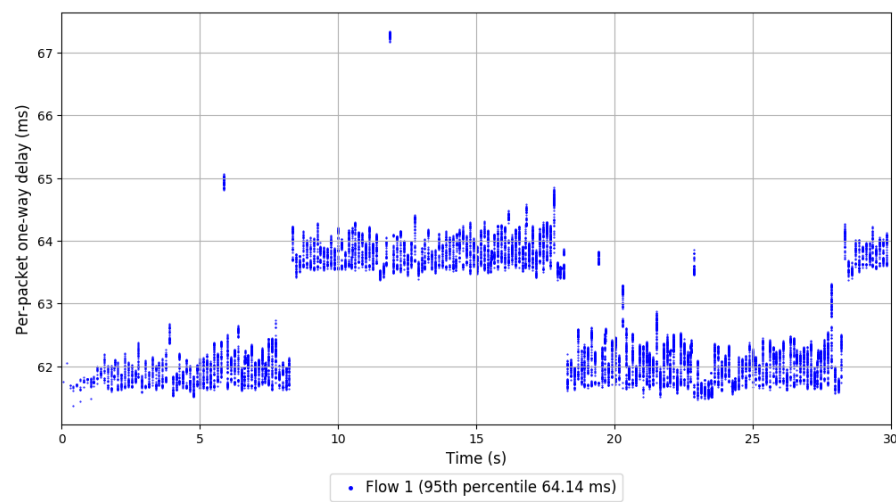
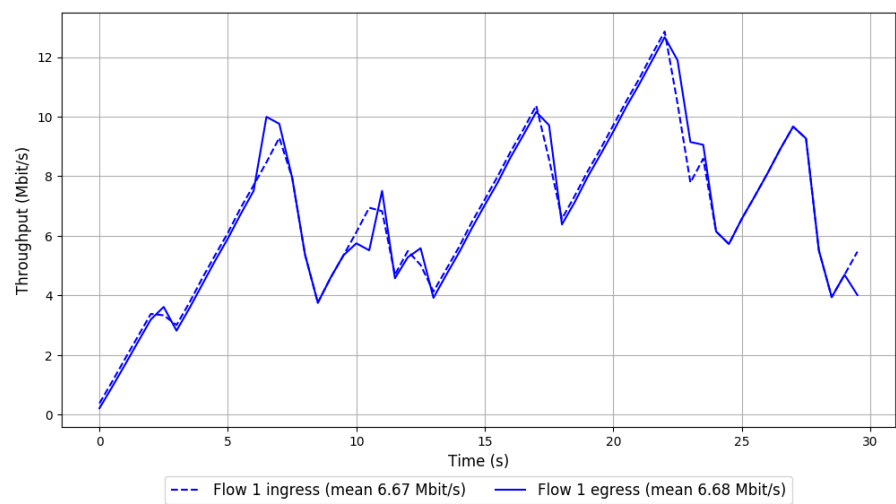
-- Flow 1:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 64.140 ms

Loss rate: 0.36%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-10-11 05:23:59

End at: 2017-10-11 05:24:29

Below is generated by plot.py at 2017-10-11 08:03:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 64.289 ms

Loss rate: 0.56%

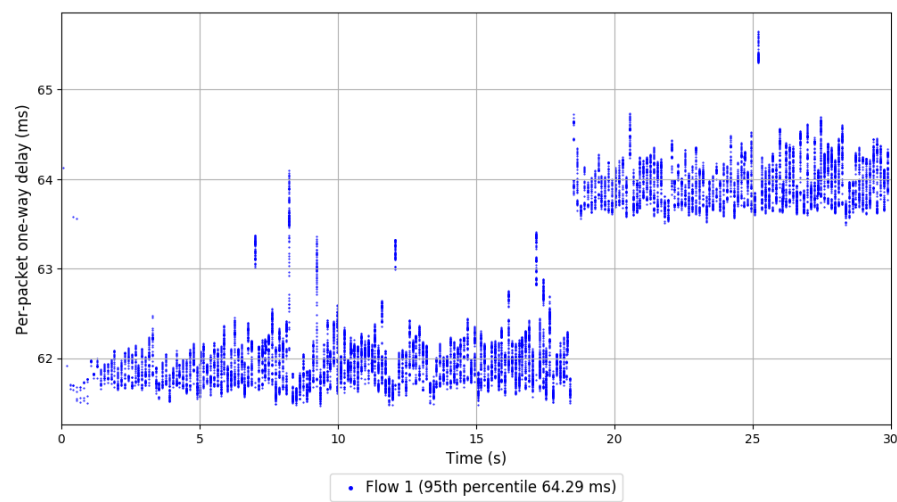
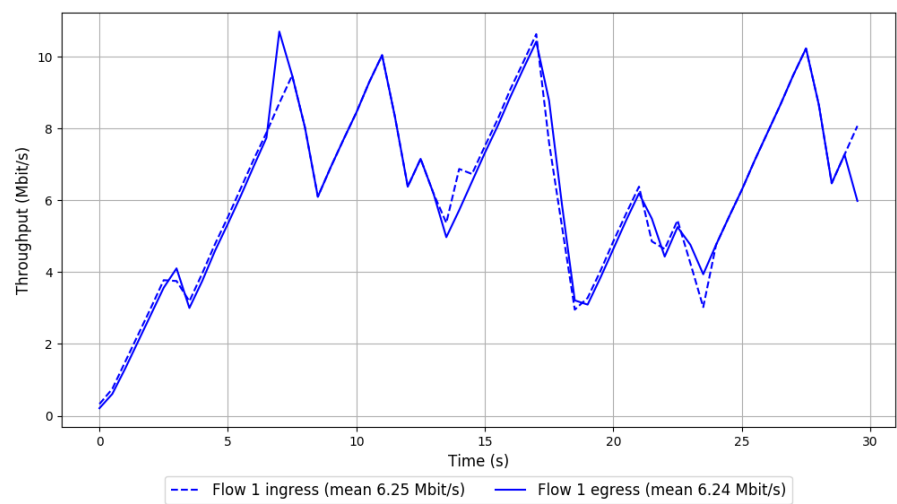
-- Flow 1:

Average throughput: 6.24 Mbit/s

95th percentile per-packet one-way delay: 64.289 ms

Loss rate: 0.56%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-10-11 05:34:37

End at: 2017-10-11 05:35:07

Below is generated by plot.py at 2017-10-11 08:03:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 64.413 ms

Loss rate: 0.55%

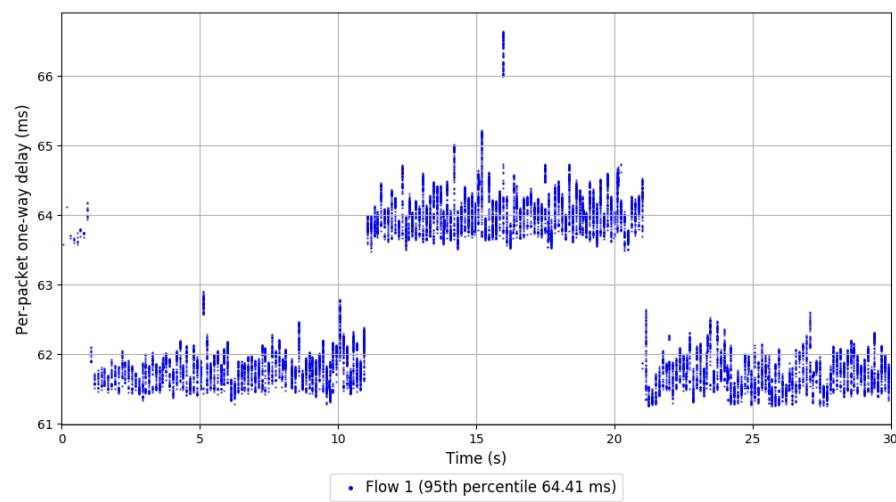
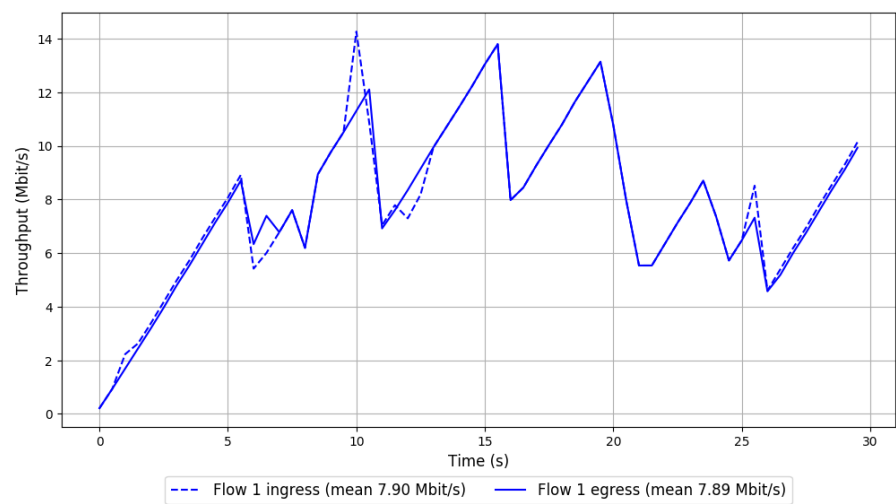
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 64.413 ms

Loss rate: 0.55%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-10-11 05:45:12

End at: 2017-10-11 05:45:42

Below is generated by plot.py at 2017-10-11 08:03:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 64.425 ms

Loss rate: 0.78%

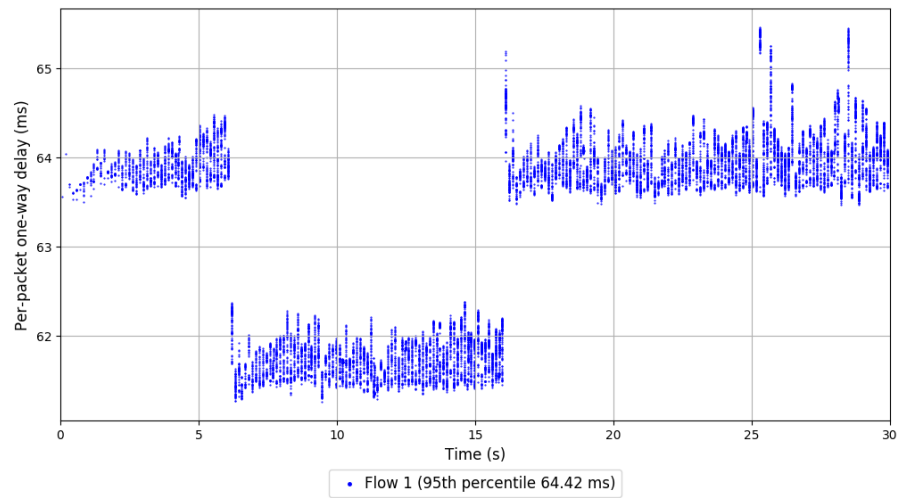
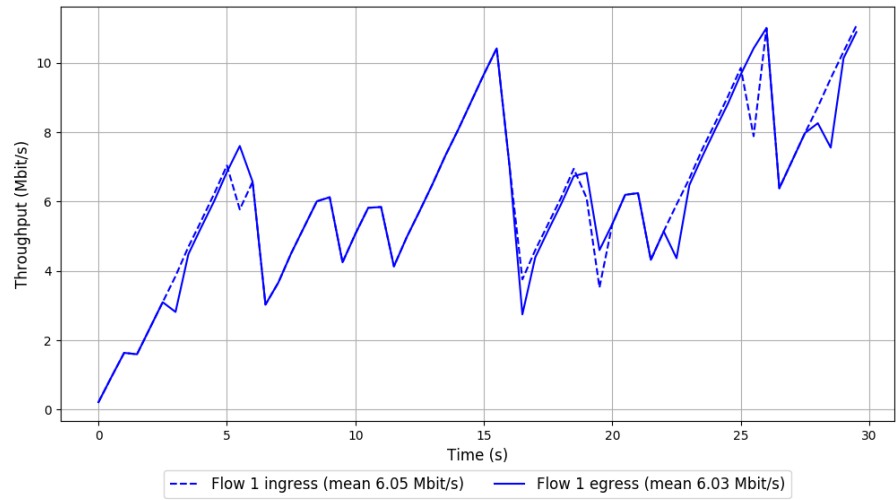
-- Flow 1:

Average throughput: 6.03 Mbit/s

95th percentile per-packet one-way delay: 64.425 ms

Loss rate: 0.78%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-10-11 05:55:29

End at: 2017-10-11 05:55:59

Below is generated by plot.py at 2017-10-11 08:03:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 64.456 ms

Loss rate: 0.40%

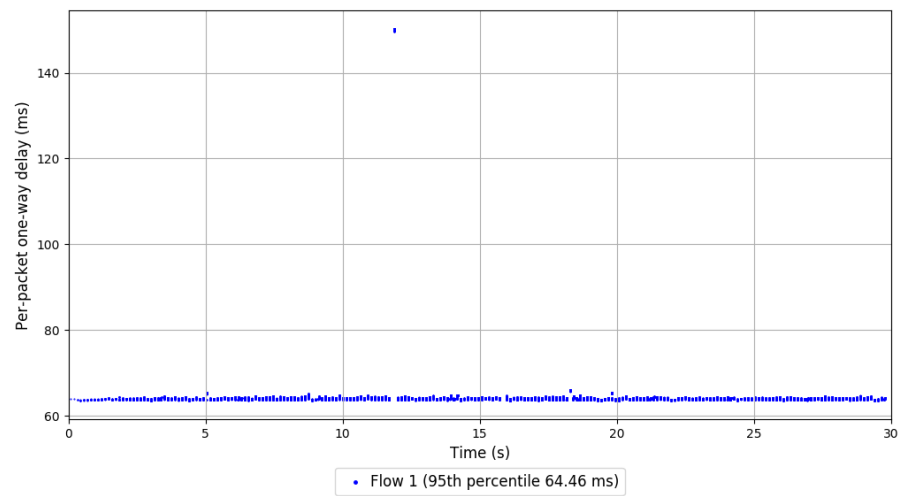
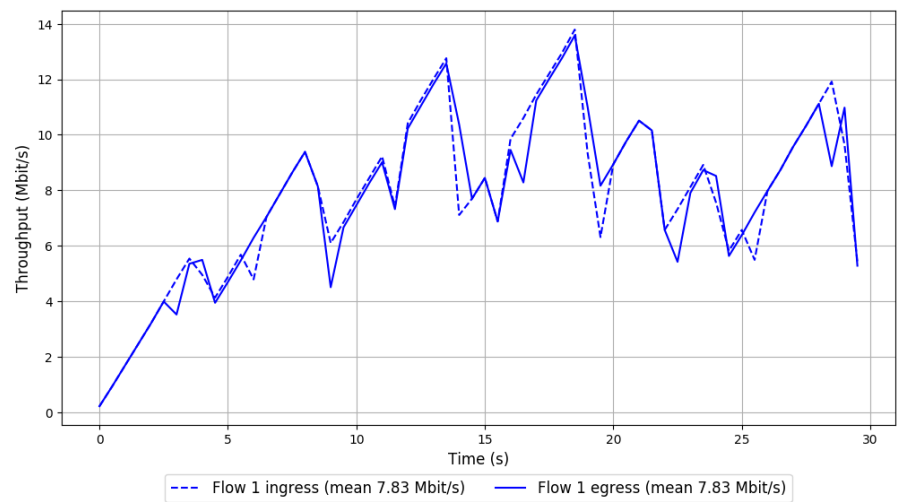
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 64.456 ms

Loss rate: 0.40%

Run 10: Report of LEDBAT — Data Link

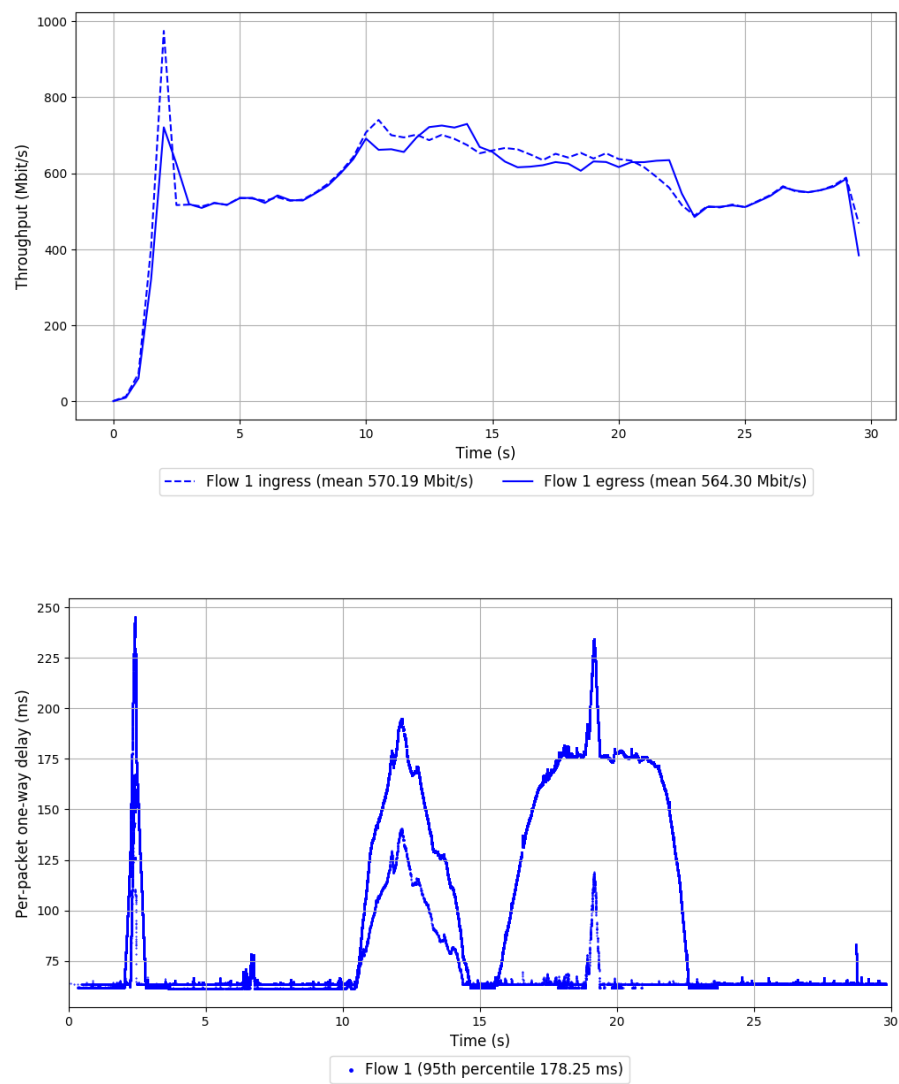


```
Run 1: Statistics of PCC

Start at: 2017-10-11 04:18:14
End at: 2017-10-11 04:18:44

# Below is generated by plot.py at 2017-10-11 08:13:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.30 Mbit/s
95th percentile per-packet one-way delay: 178.251 ms
Loss rate: 1.46%
-- Flow 1:
Average throughput: 564.30 Mbit/s
95th percentile per-packet one-way delay: 178.251 ms
Loss rate: 1.46%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-10-11 04:28:56

End at: 2017-10-11 04:29:26

Below is generated by plot.py at 2017-10-11 08:13:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 611.52 Mbit/s

95th percentile per-packet one-way delay: 174.221 ms

Loss rate: 2.61%

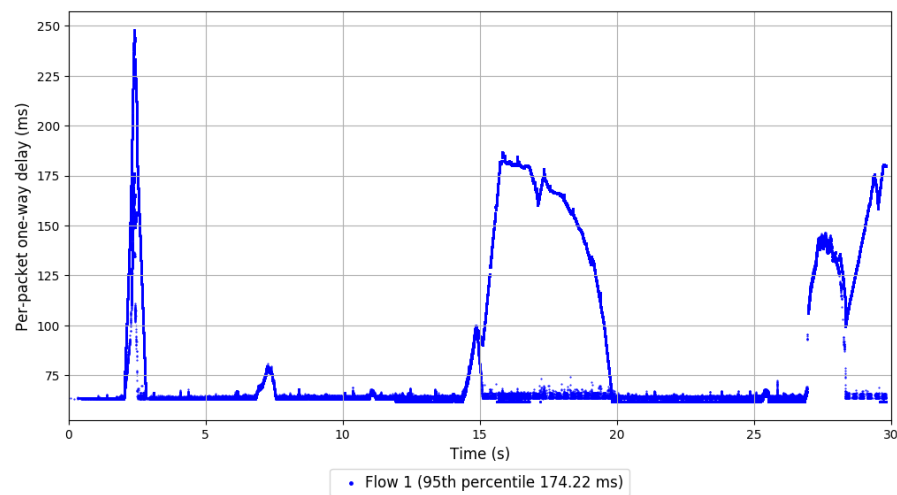
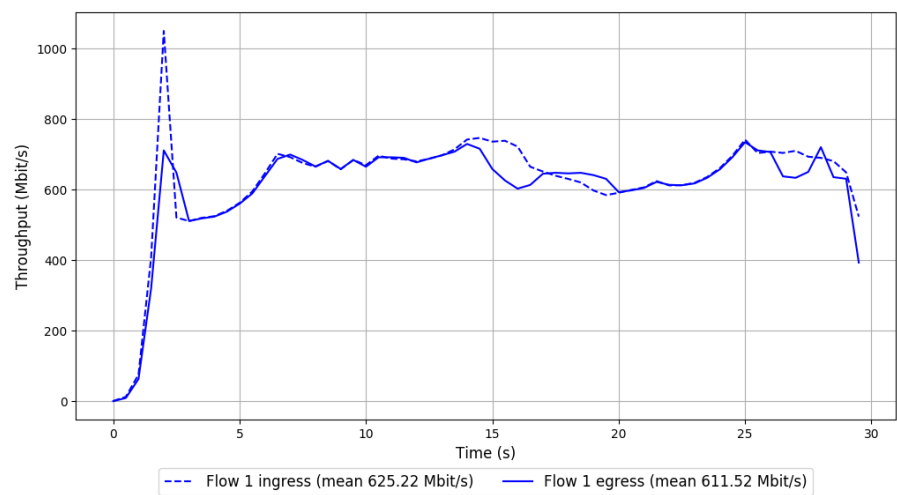
-- Flow 1:

Average throughput: 611.52 Mbit/s

95th percentile per-packet one-way delay: 174.221 ms

Loss rate: 2.61%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-10-11 04:39:33

End at: 2017-10-11 04:40:03

Below is generated by plot.py at 2017-10-11 08:13:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.04 Mbit/s

95th percentile per-packet one-way delay: 143.141 ms

Loss rate: 2.74%

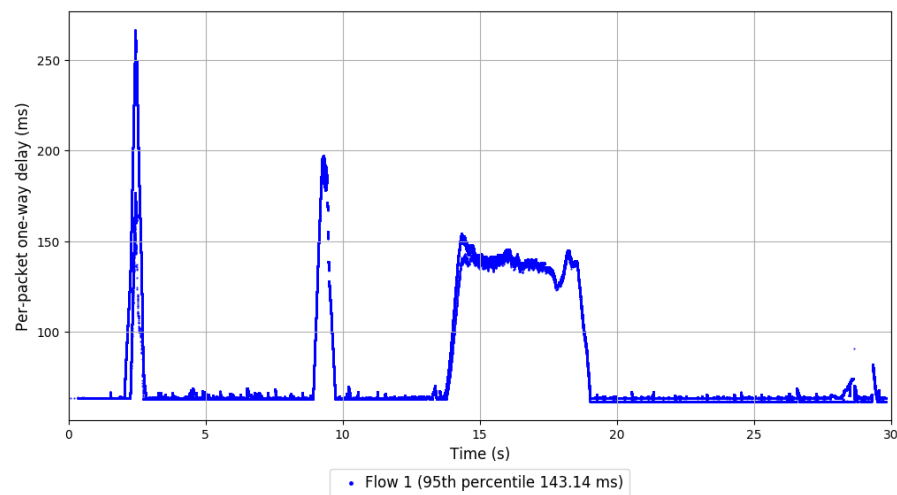
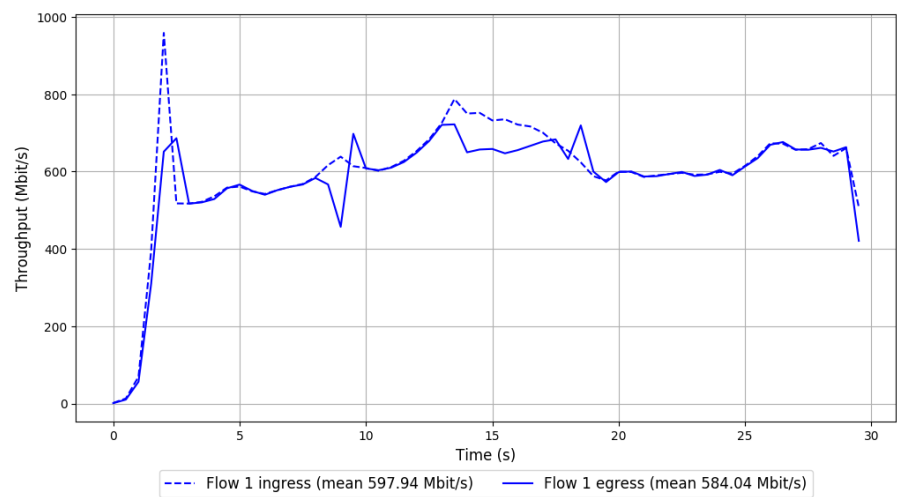
-- Flow 1:

Average throughput: 584.04 Mbit/s

95th percentile per-packet one-way delay: 143.141 ms

Loss rate: 2.74%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-10-11 04:50:12

End at: 2017-10-11 04:50:42

Below is generated by plot.py at 2017-10-11 08:14:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 615.55 Mbit/s

95th percentile per-packet one-way delay: 182.891 ms

Loss rate: 3.69%

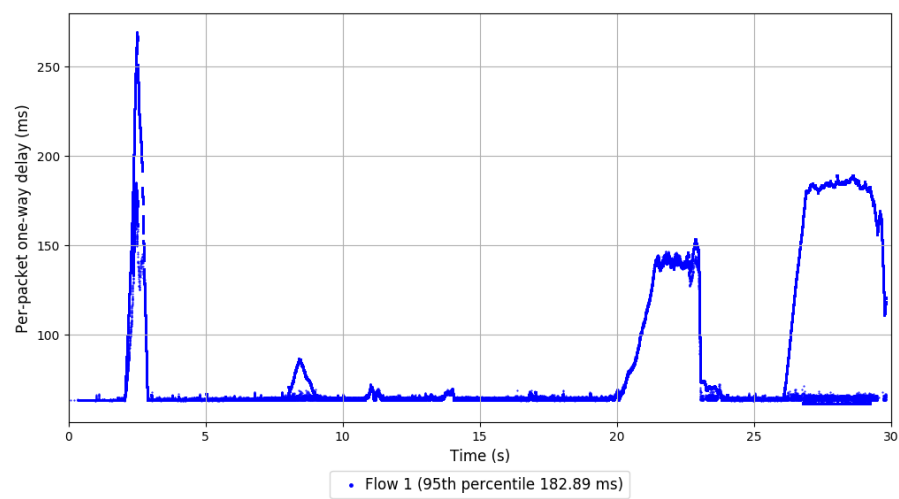
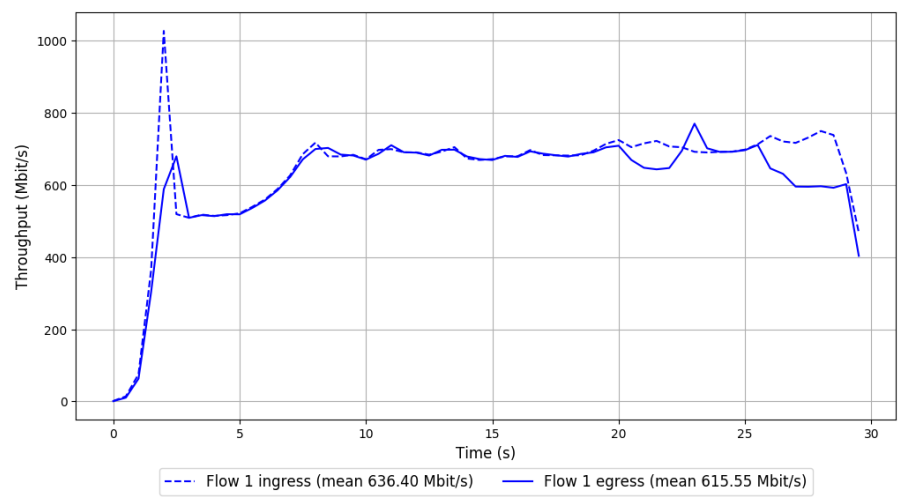
-- Flow 1:

Average throughput: 615.55 Mbit/s

95th percentile per-packet one-way delay: 182.891 ms

Loss rate: 3.69%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-10-11 05:00:50

End at: 2017-10-11 05:01:20

Below is generated by plot.py at 2017-10-11 08:14:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 598.95 Mbit/s

95th percentile per-packet one-way delay: 143.616 ms

Loss rate: 1.61%

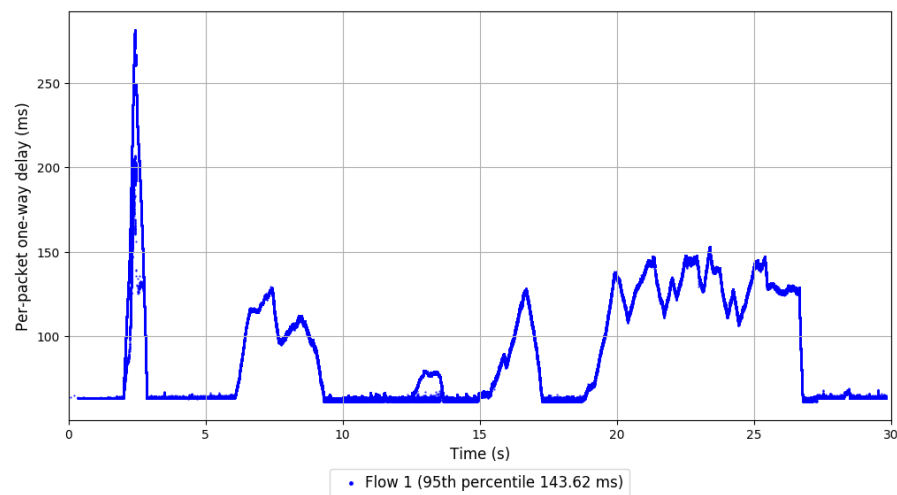
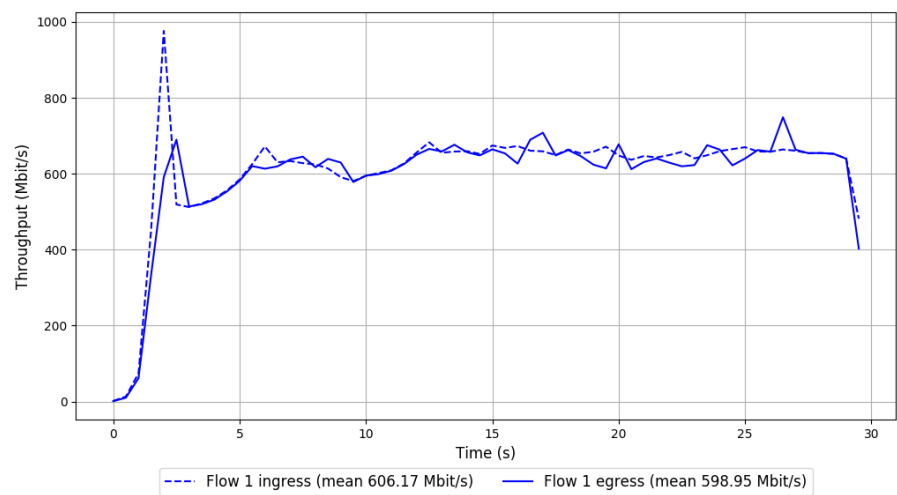
-- Flow 1:

Average throughput: 598.95 Mbit/s

95th percentile per-packet one-way delay: 143.616 ms

Loss rate: 1.61%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-10-11 05:11:31

End at: 2017-10-11 05:12:01

Below is generated by plot.py at 2017-10-11 08:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 609.52 Mbit/s

95th percentile per-packet one-way delay: 136.321 ms

Loss rate: 1.23%

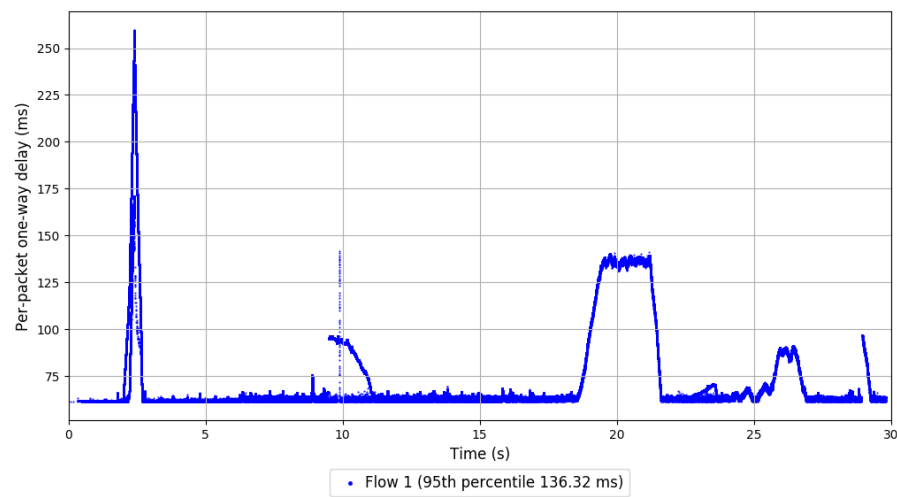
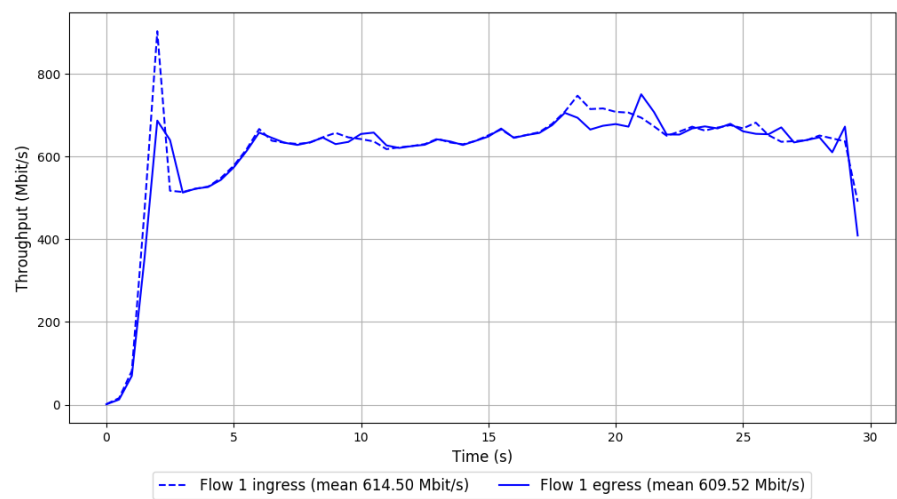
-- Flow 1:

Average throughput: 609.52 Mbit/s

95th percentile per-packet one-way delay: 136.321 ms

Loss rate: 1.23%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-10-11 05:22:13

End at: 2017-10-11 05:22:43

Below is generated by plot.py at 2017-10-11 08:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.47 Mbit/s

95th percentile per-packet one-way delay: 140.440 ms

Loss rate: 2.11%

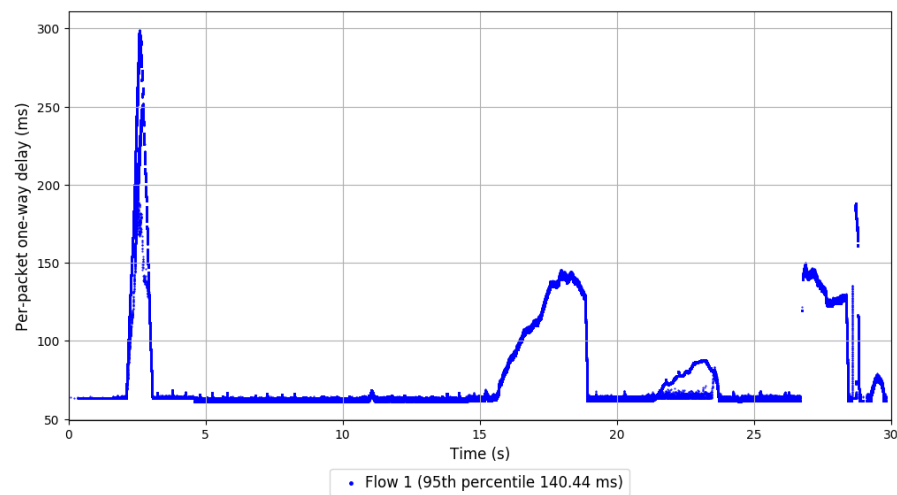
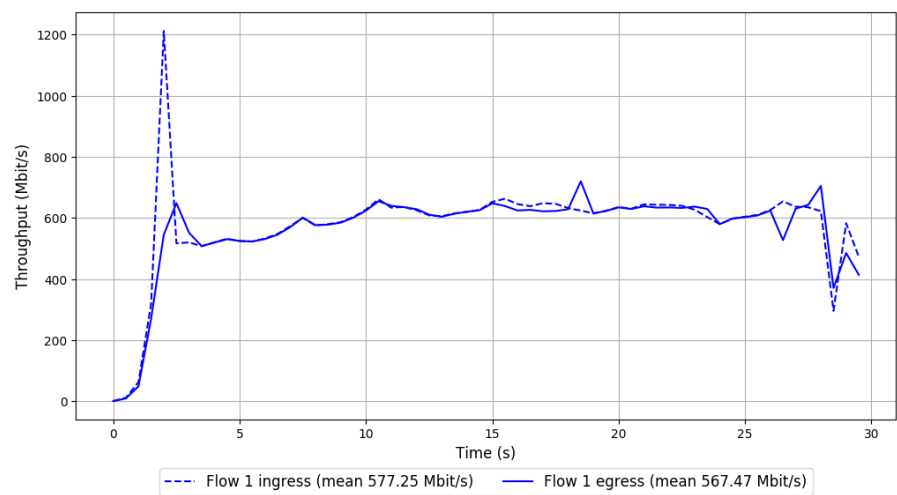
-- Flow 1:

Average throughput: 567.47 Mbit/s

95th percentile per-packet one-way delay: 140.440 ms

Loss rate: 2.11%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-10-11 05:32:48

End at: 2017-10-11 05:33:18

Below is generated by plot.py at 2017-10-11 08:15:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 639.61 Mbit/s

95th percentile per-packet one-way delay: 135.778 ms

Loss rate: 1.58%

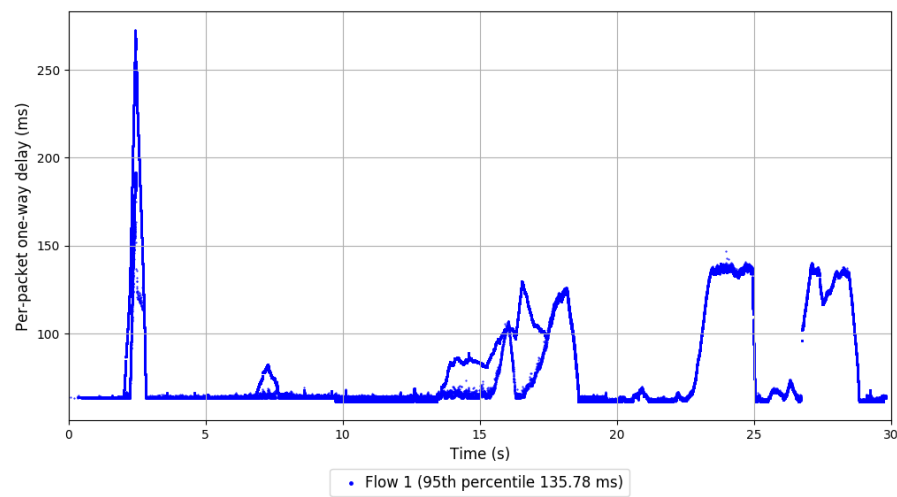
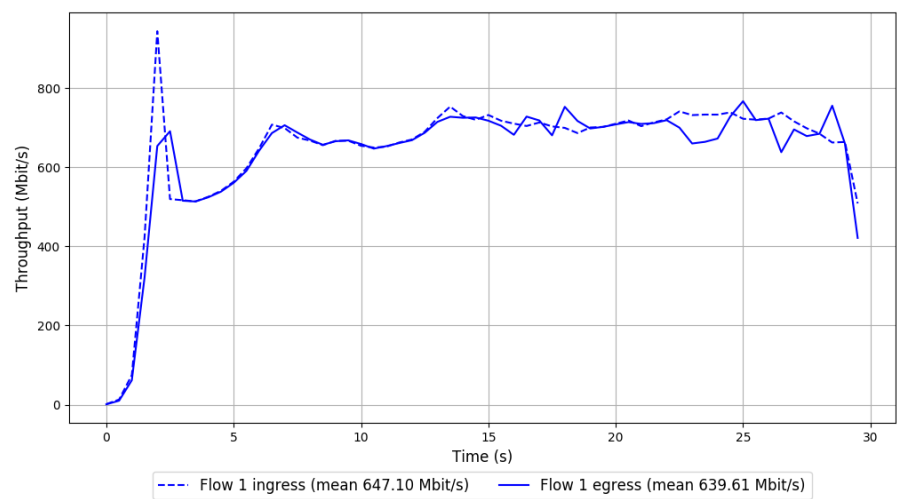
-- Flow 1:

Average throughput: 639.61 Mbit/s

95th percentile per-packet one-way delay: 135.778 ms

Loss rate: 1.58%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-10-11 05:43:27

End at: 2017-10-11 05:43:57

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 571.70 Mbit/s

95th percentile per-packet one-way delay: 141.989 ms

Loss rate: 1.43%

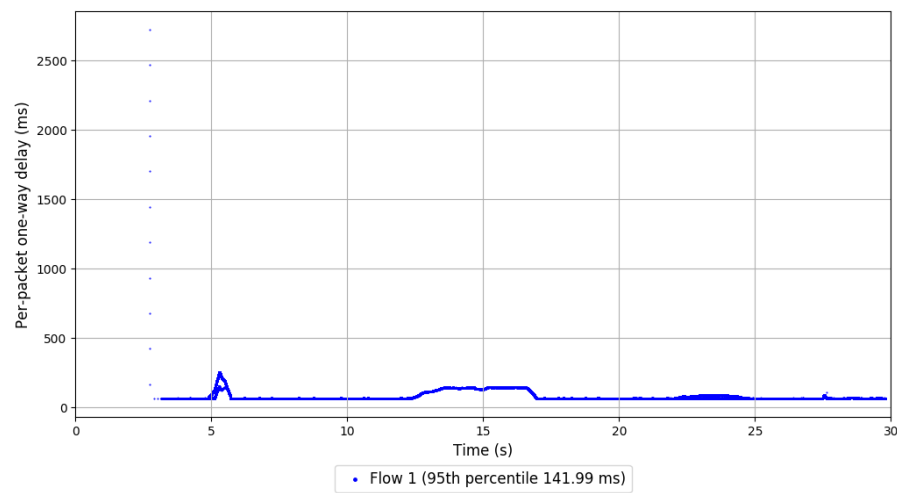
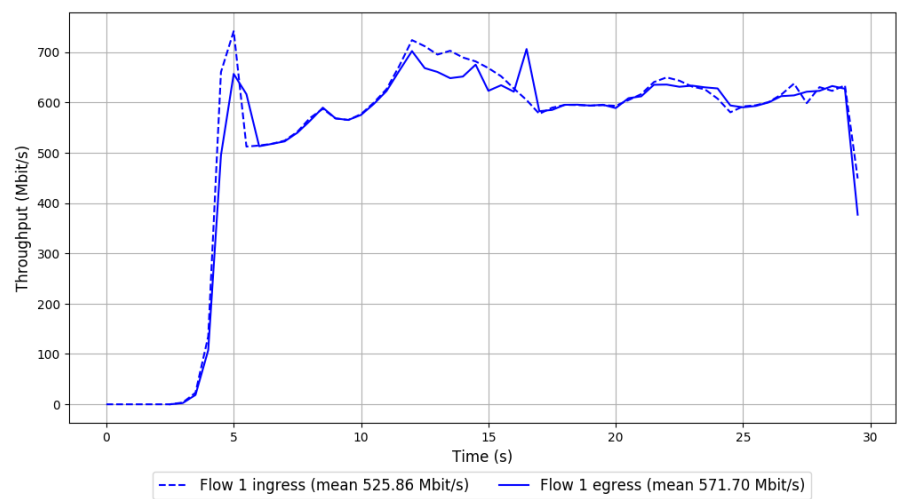
-- Flow 1:

Average throughput: 571.70 Mbit/s

95th percentile per-packet one-way delay: 141.989 ms

Loss rate: 1.43%

Run 9: Report of PCC — Data Link

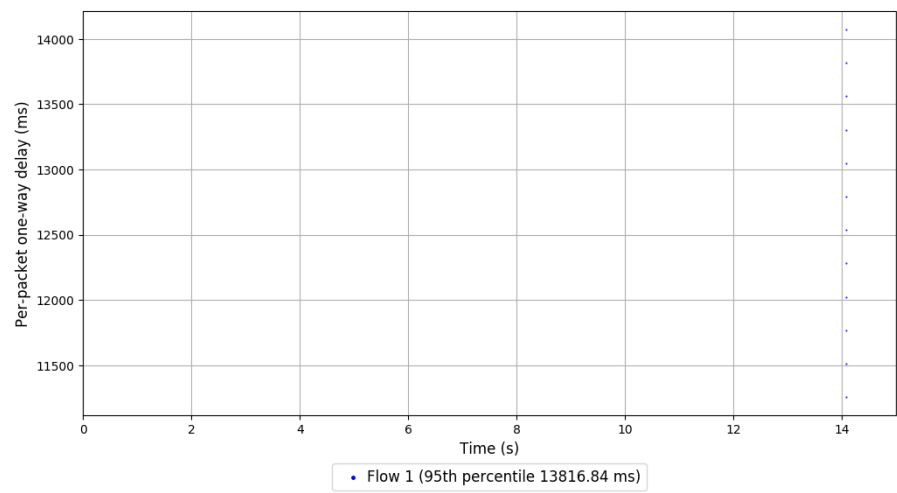
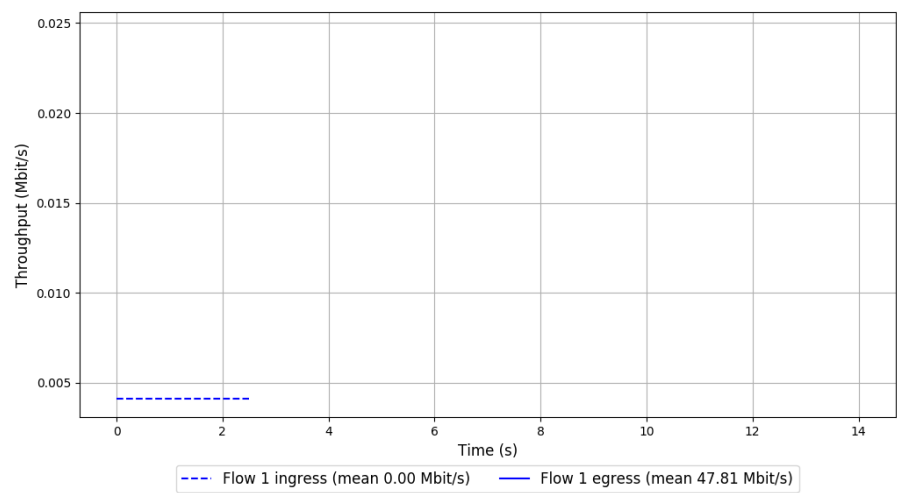


Run 10: Statistics of PCC

Start at: 2017-10-11 05:54:05

End at: 2017-10-11 05:54:35

Run 10: Report of PCC — Data Link

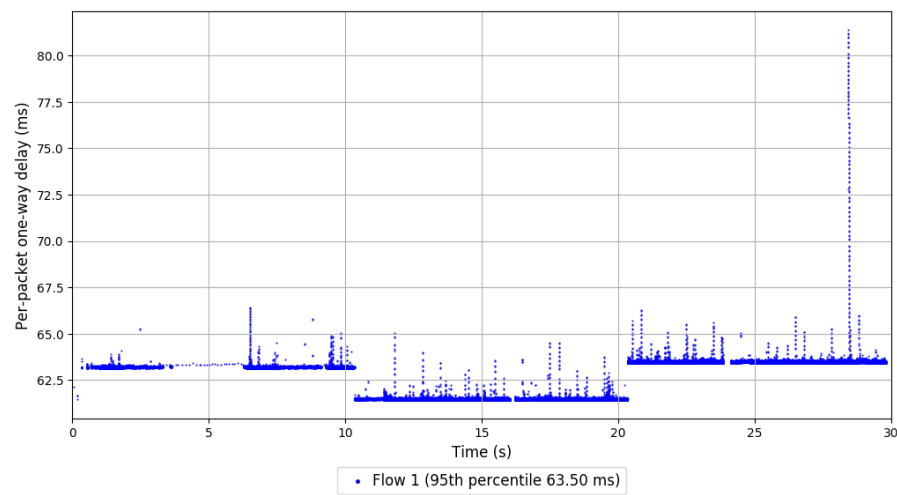
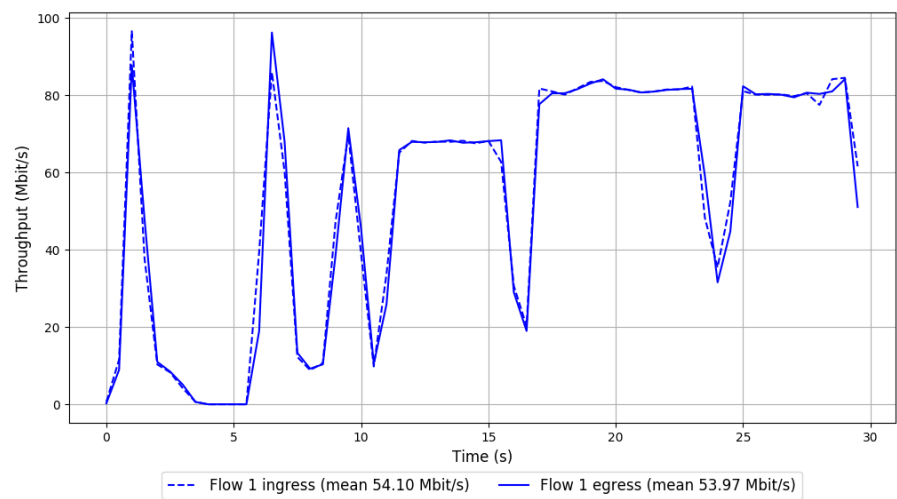


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-10-11 04:27:37
End at: 2017-10-11 04:28:07

# Below is generated by plot.py at 2017-10-11 08:23:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.97 Mbit/s
95th percentile per-packet one-way delay: 63.496 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 53.97 Mbit/s
95th percentile per-packet one-way delay: 63.496 ms
Loss rate: 0.66%
```


Run 1: Report of QUIC Cubic — Data Link

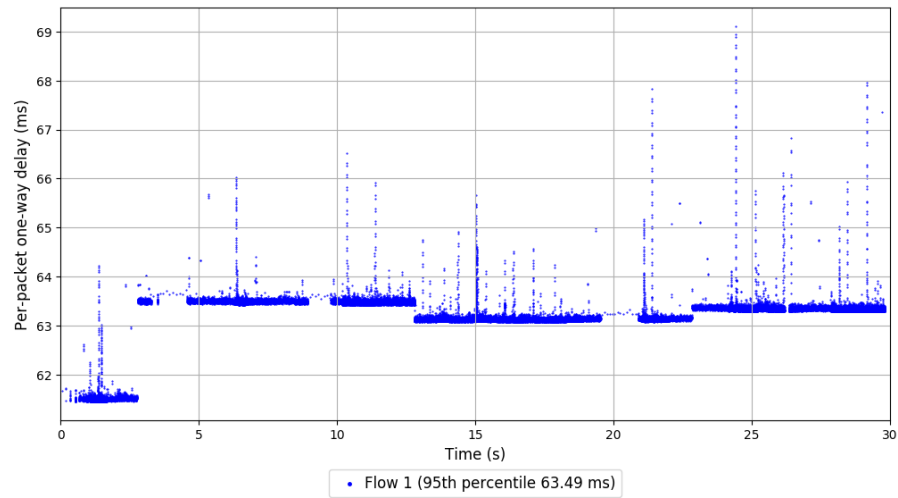
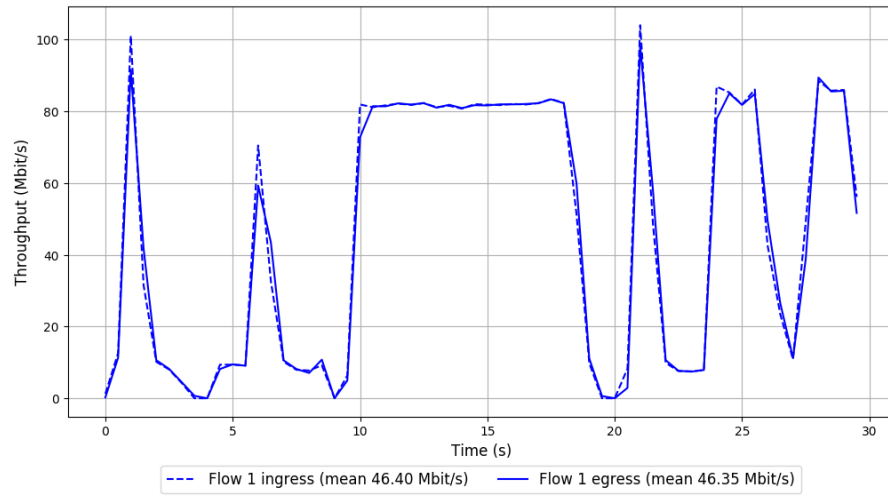


```
Run 2: Statistics of QUIC Cubic

Start at: 2017-10-11 04:38:15
End at: 2017-10-11 04:38:45

# Below is generated by plot.py at 2017-10-11 08:23:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 46.35 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.56%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-10-11 04:48:53

End at: 2017-10-11 04:49:23

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 63.341 ms

Loss rate: 0.62%

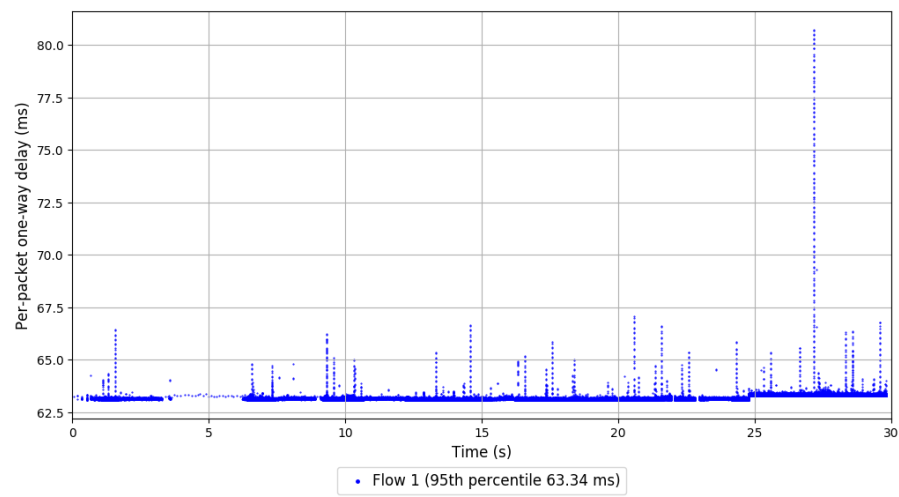
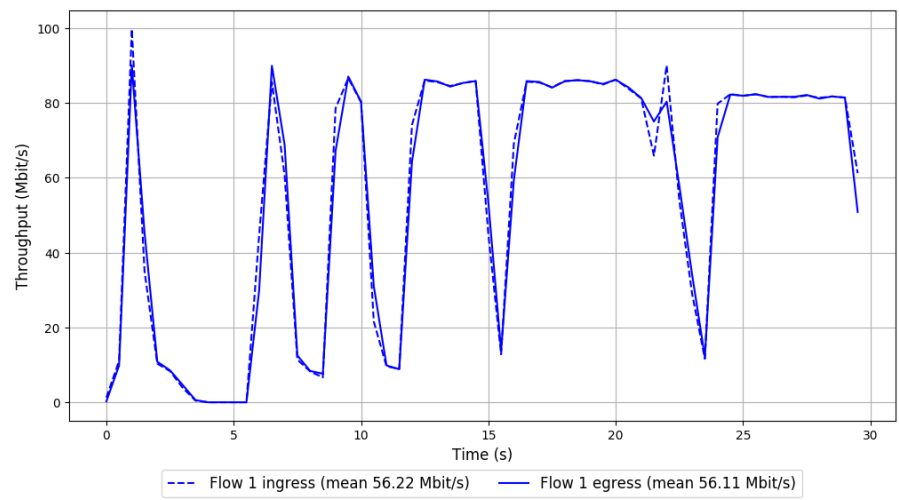
-- Flow 1:

Average throughput: 56.11 Mbit/s

95th percentile per-packet one-way delay: 63.341 ms

Loss rate: 0.62%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-10-11 04:59:32

End at: 2017-10-11 05:00:02

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.89 Mbit/s

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

Loss rate: 0.61%

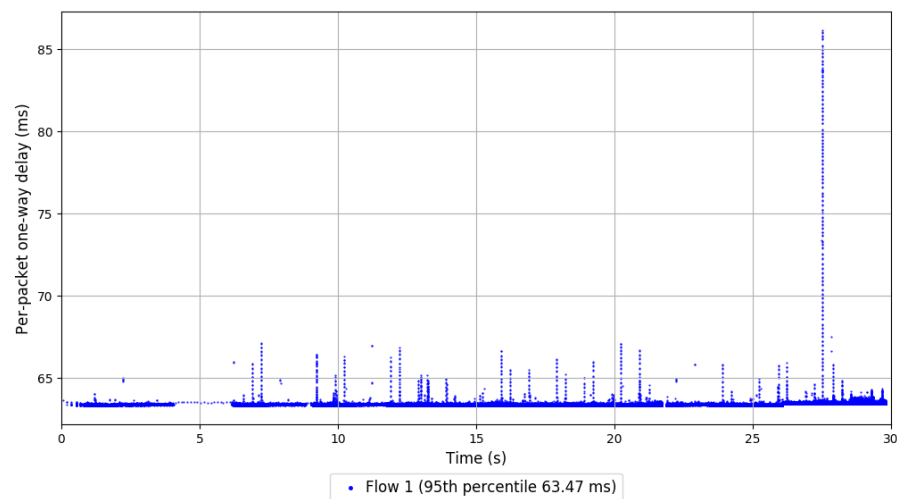
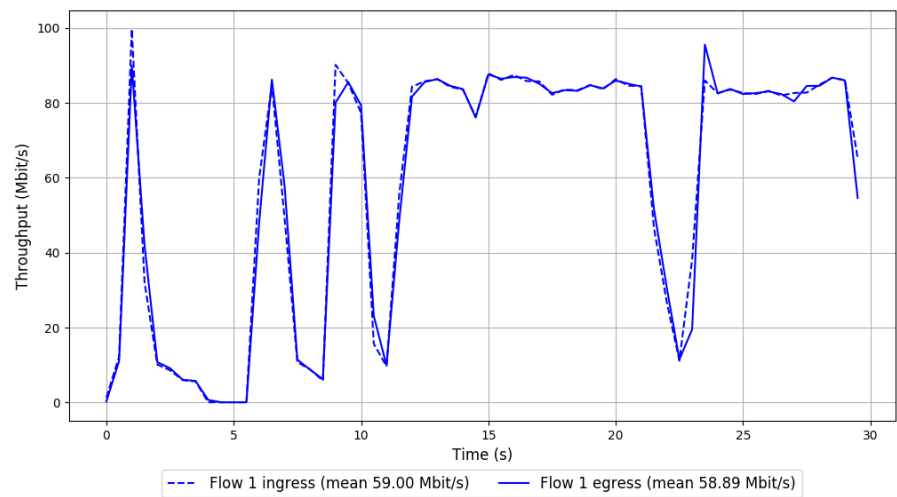
-- Flow 1:

Average throughput: 58.89 Mbit/s

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

Loss rate: 0.61%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-10-11 05:10:14

End at: 2017-10-11 05:10:44

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 63.518 ms

Loss rate: 0.68%

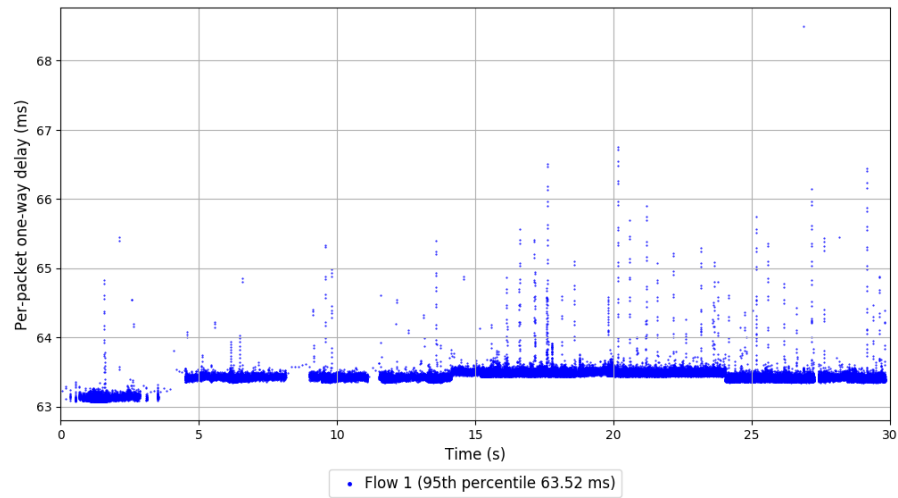
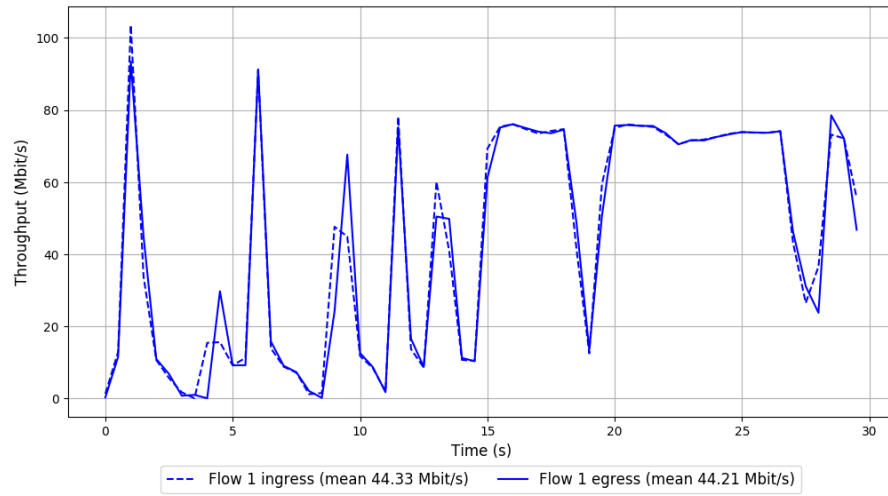
-- Flow 1:

Average throughput: 44.21 Mbit/s

95th percentile per-packet one-way delay: 63.518 ms

Loss rate: 0.68%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-10-11 05:20:55

End at: 2017-10-11 05:21:25

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 63.390 ms

Loss rate: 0.61%

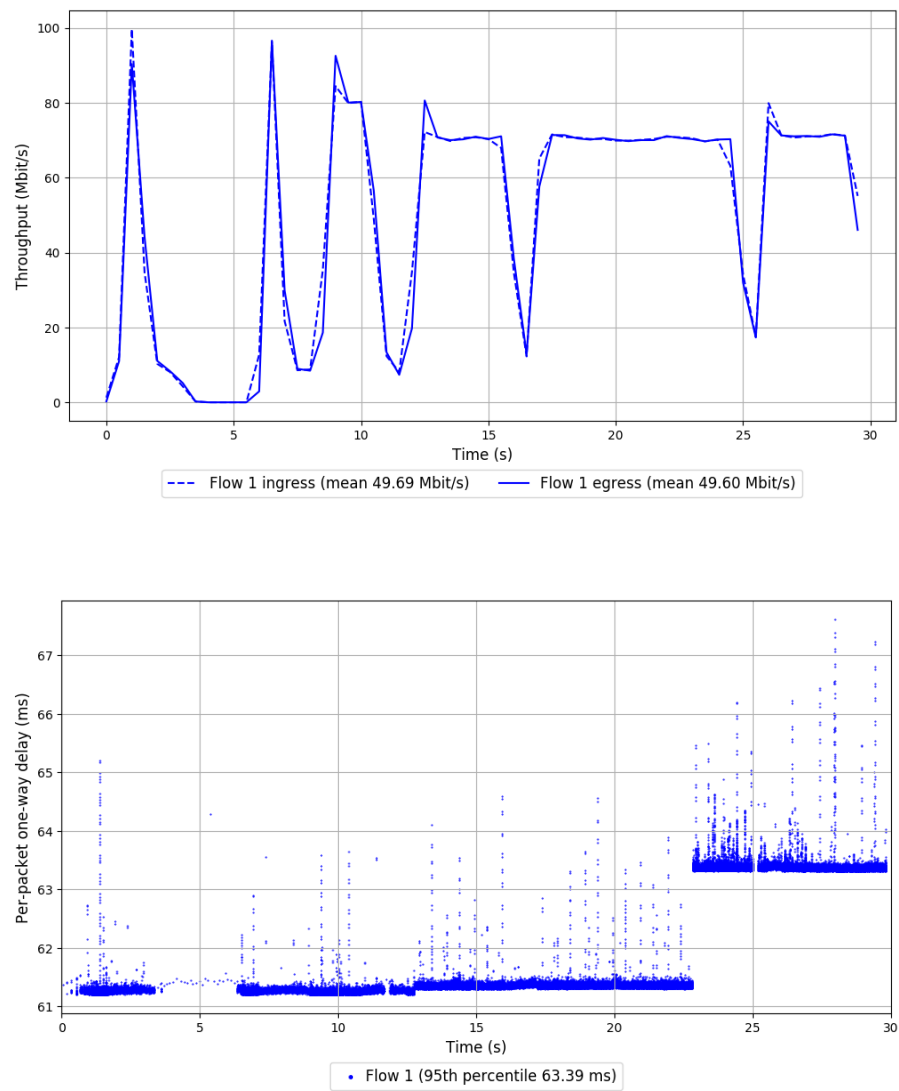
-- Flow 1:

Average throughput: 49.60 Mbit/s

95th percentile per-packet one-way delay: 63.390 ms

Loss rate: 0.61%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-10-11 05:31:29

End at: 2017-10-11 05:31:59

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.34 Mbit/s

95th percentile per-packet one-way delay: 63.457 ms

Loss rate: 0.61%

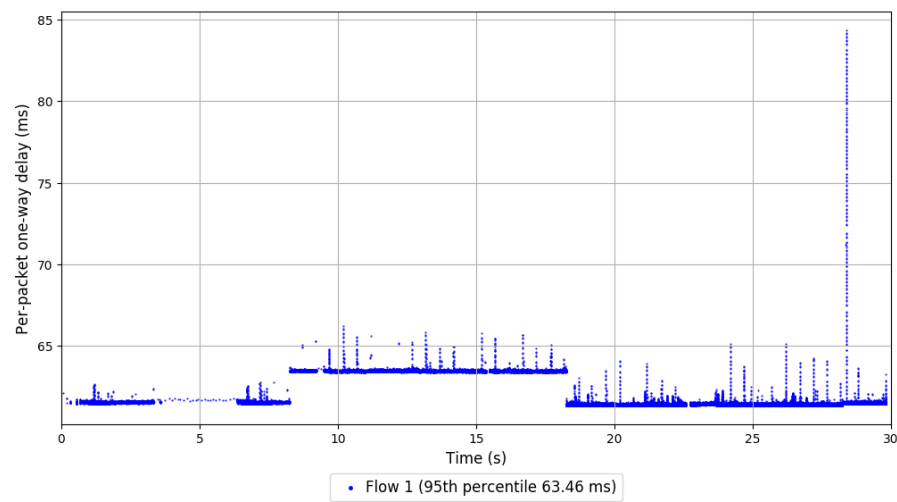
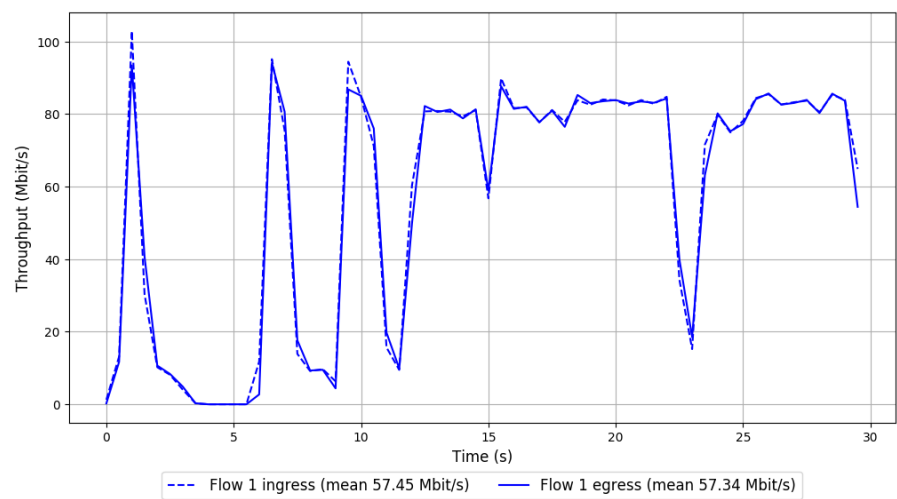
-- Flow 1:

Average throughput: 57.34 Mbit/s

95th percentile per-packet one-way delay: 63.457 ms

Loss rate: 0.61%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-10-11 05:41:55

End at: 2017-10-11 05:42:25

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 63.418 ms

Loss rate: 0.71%

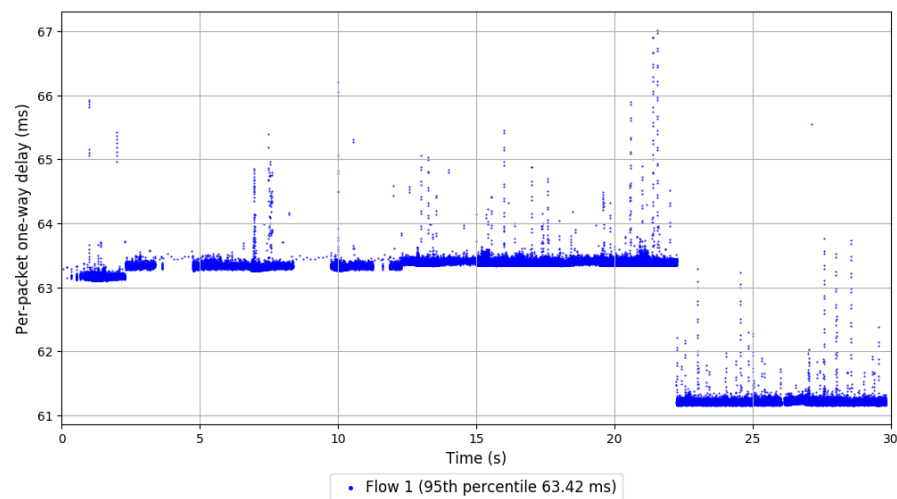
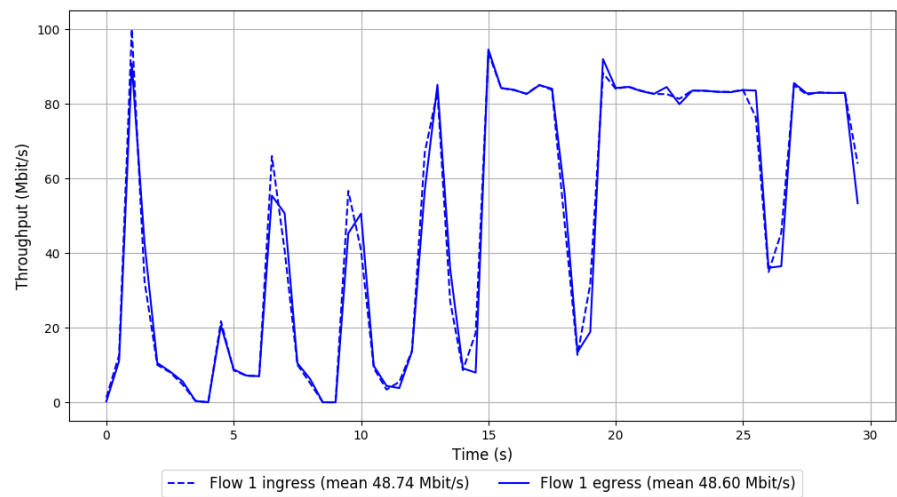
-- Flow 1:

Average throughput: 48.60 Mbit/s

95th percentile per-packet one-way delay: 63.418 ms

Loss rate: 0.71%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-10-11 05:52:34

End at: 2017-10-11 05:53:04

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.45 Mbit/s

95th percentile per-packet one-way delay: 63.454 ms

Loss rate: 0.67%

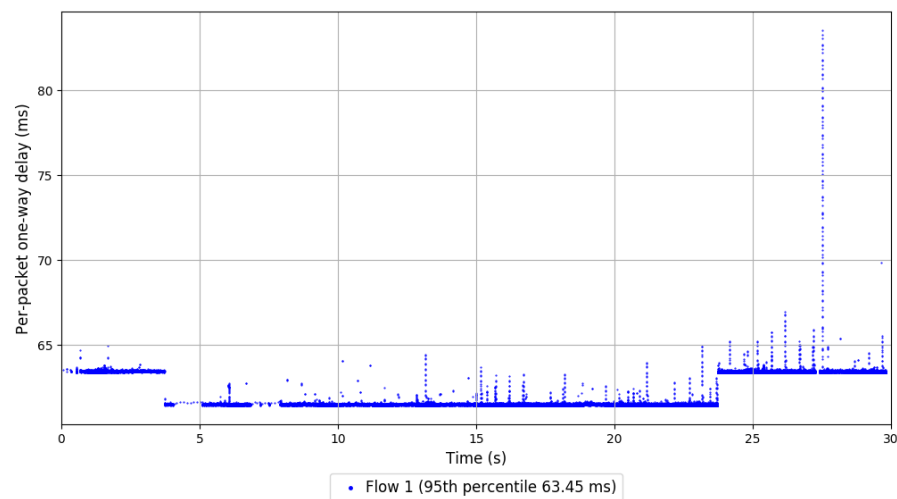
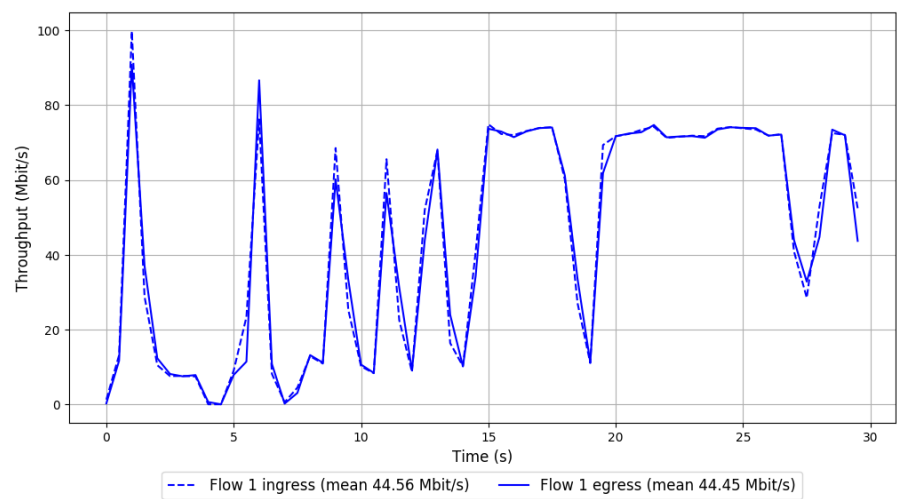
-- Flow 1:

Average throughput: 44.45 Mbit/s

95th percentile per-packet one-way delay: 63.454 ms

Loss rate: 0.67%

Run 9: Report of QUIC Cubic — Data Link

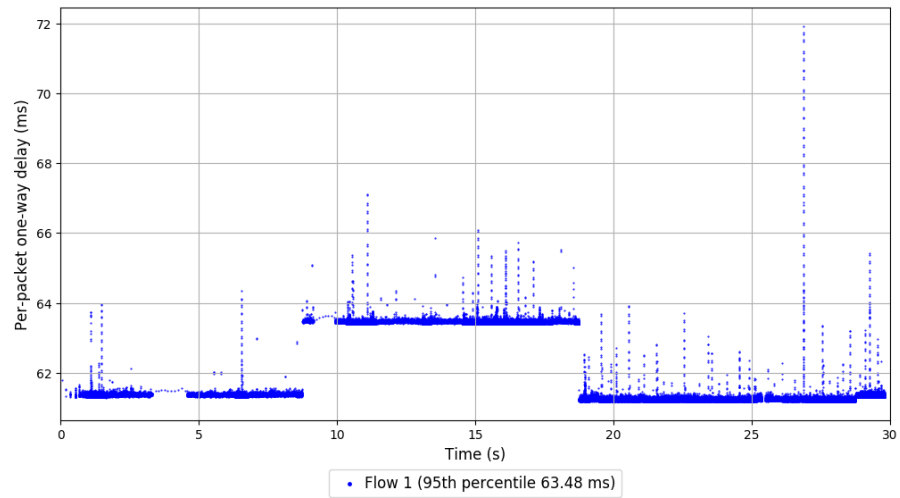
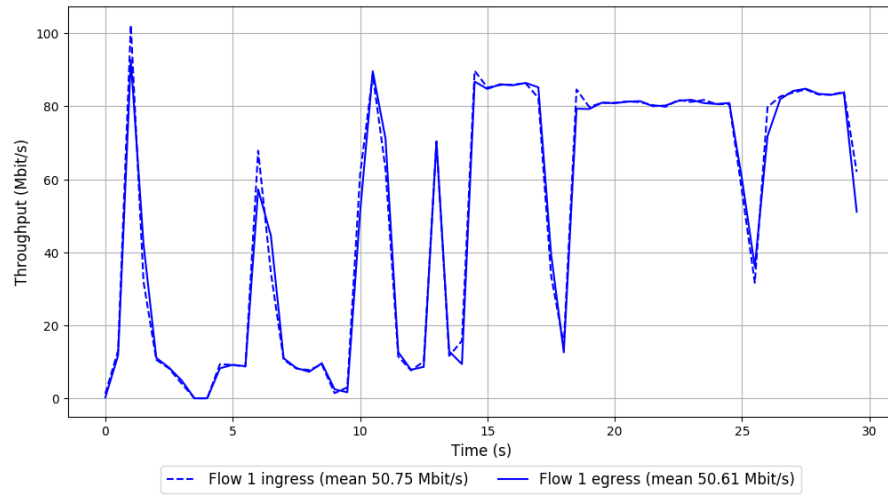


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-10-11 06:03:09
End at: 2017-10-11 06:03:39

# Below is generated by plot.py at 2017-10-11 08:23:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.61 Mbit/s
95th percentile per-packet one-way delay: 63.480 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 50.61 Mbit/s
95th percentile per-packet one-way delay: 63.480 ms
Loss rate: 0.69%
```

Run 10: Report of QUIC Cubic — Data Link

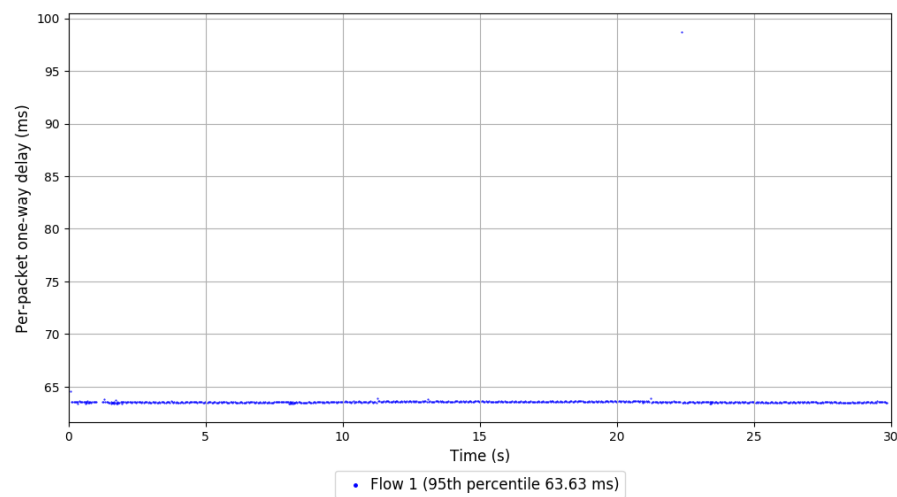
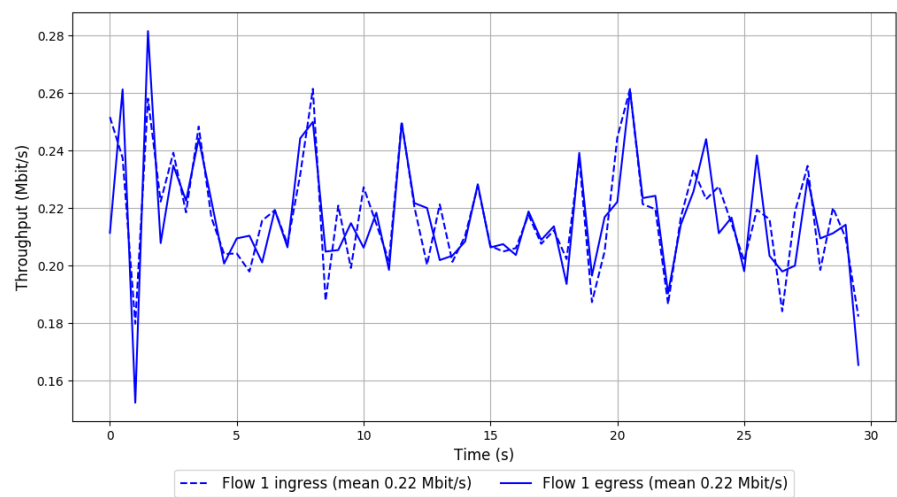


```
Run 1: Statistics of SCReAM

Start at: 2017-10-11 04:22:16
End at: 2017-10-11 04:22:46

# Below is generated by plot.py at 2017-10-11 08:23:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.626 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.626 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

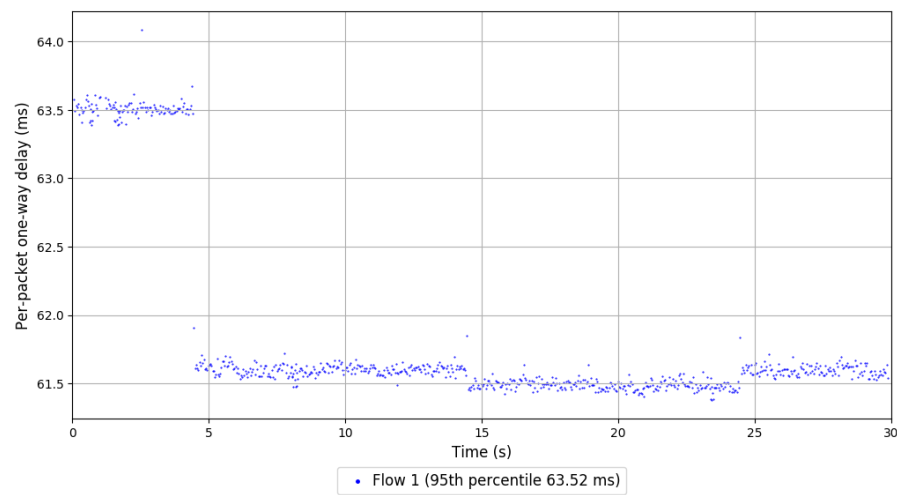
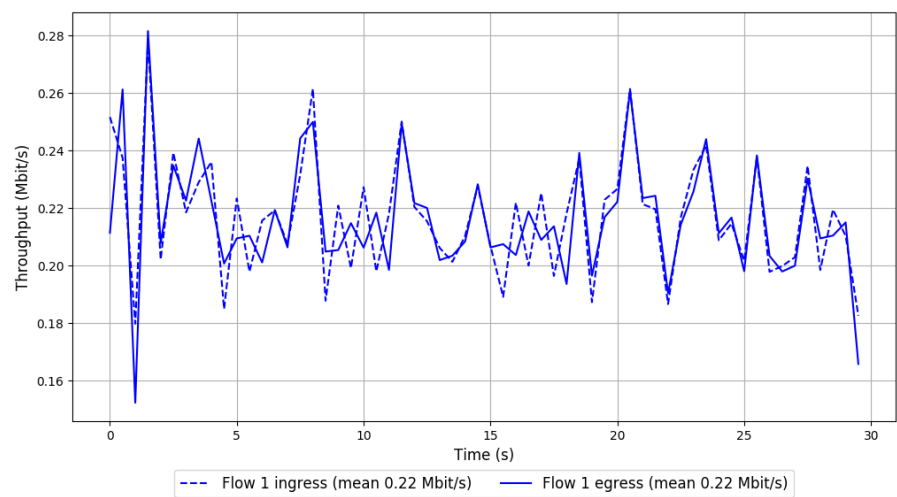


```
Run 2: Statistics of SCReAM

Start at: 2017-10-11 04:33:03
End at: 2017-10-11 04:33:33

# Below is generated by plot.py at 2017-10-11 08:23:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.521 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.521 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-10-11 04:43:36

End at: 2017-10-11 04:44:06

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.303 ms

Loss rate: 0.38%

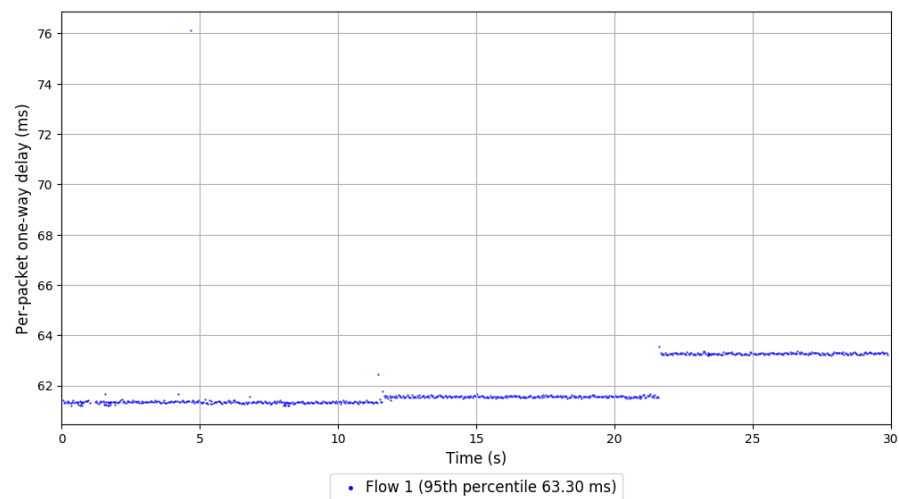
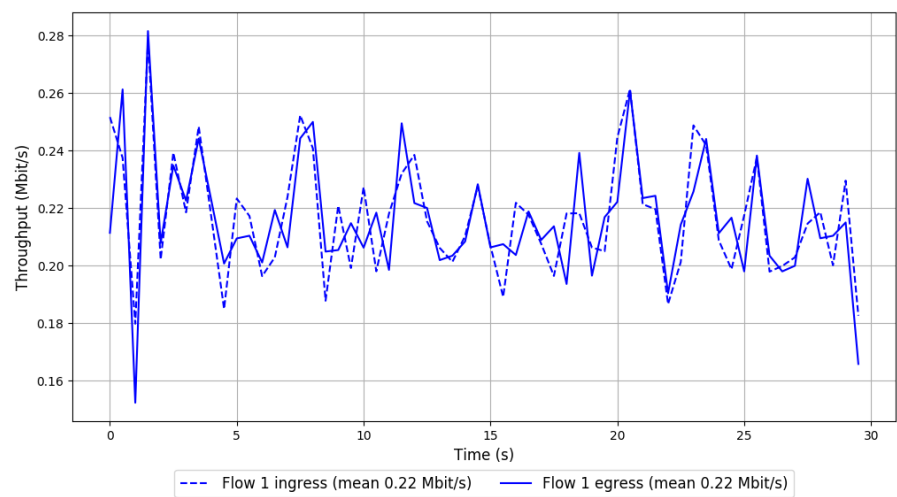
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.303 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-10-11 04:54:20

End at: 2017-10-11 04:54:50

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.276 ms

Loss rate: 0.38%

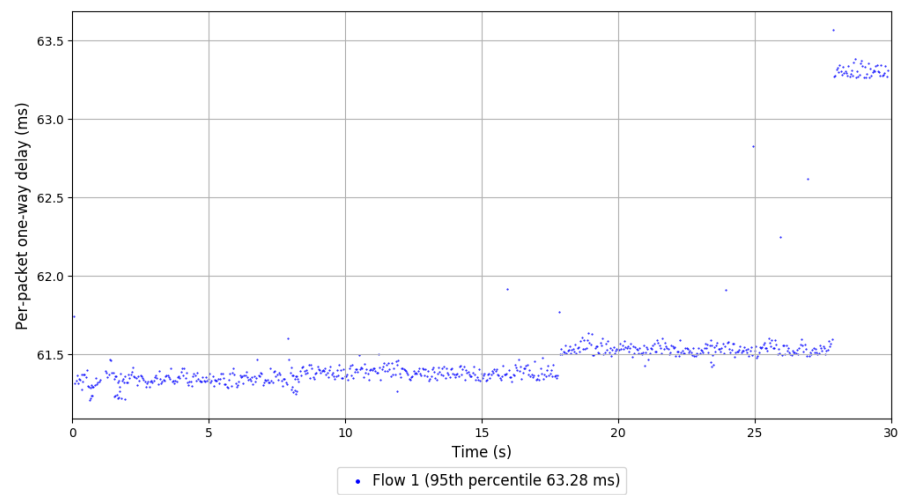
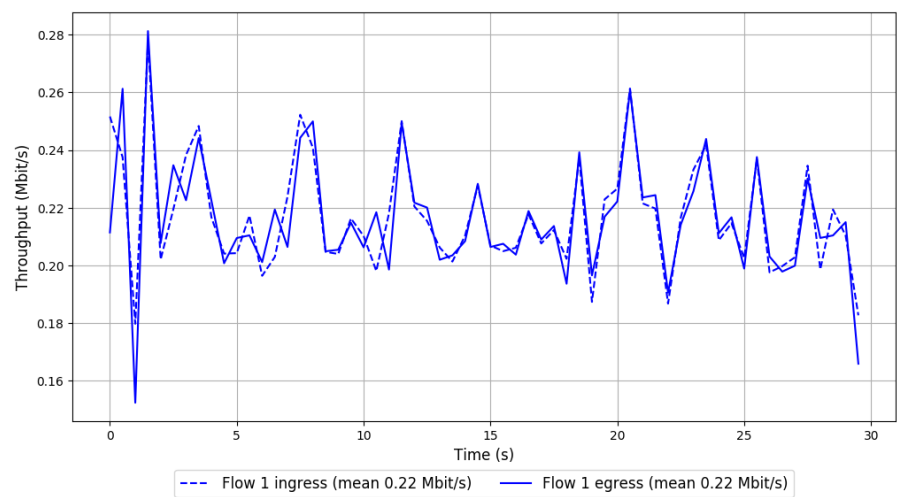
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.276 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-10-11 05:04:58

End at: 2017-10-11 05:05:28

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.591 ms

Loss rate: 0.38%

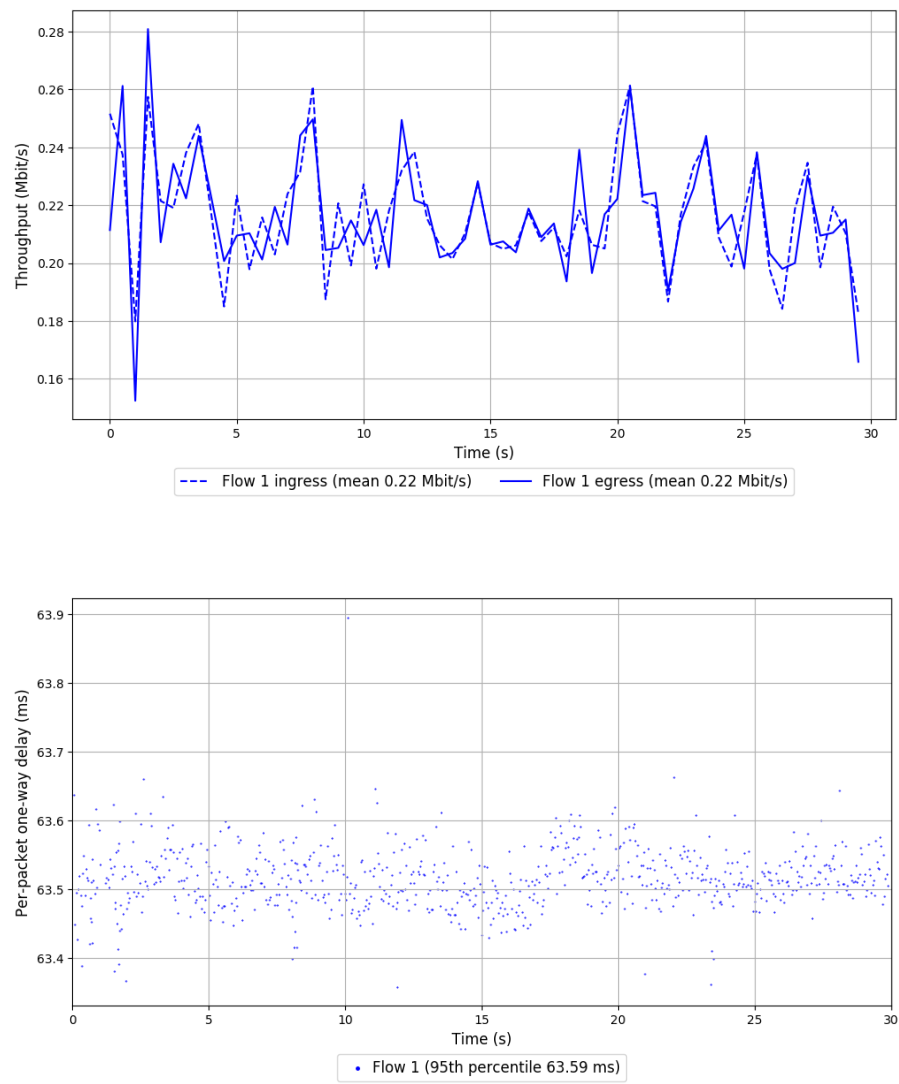
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.591 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-10-11 05:15:42

End at: 2017-10-11 05:16:12

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.743 ms

Loss rate: 0.38%

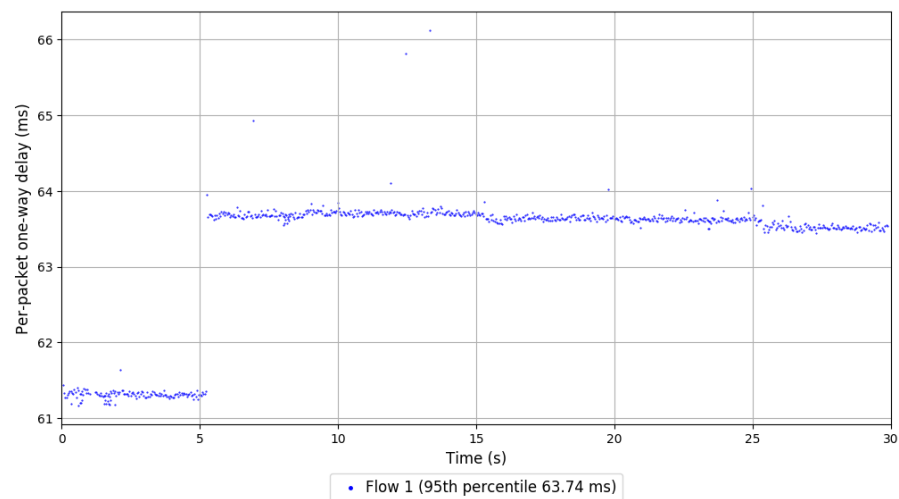
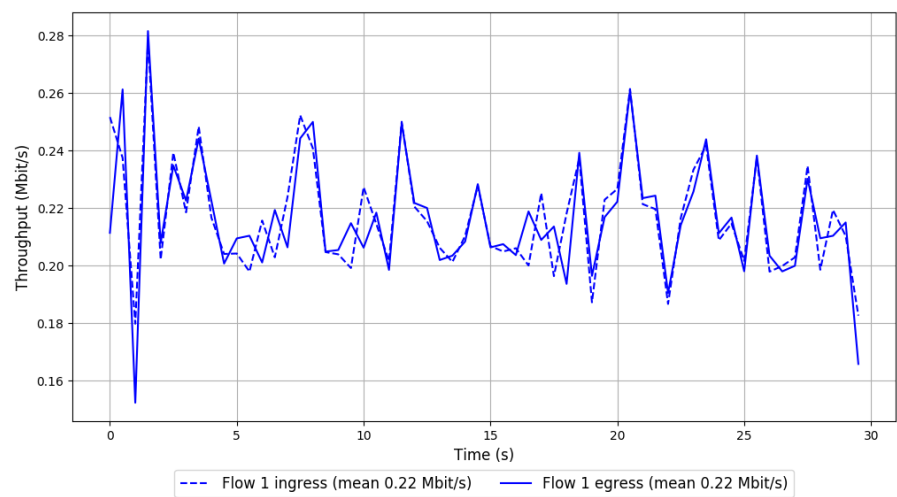
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.743 ms

Loss rate: 0.38%

Run 6: Report of SCRaM — Data Link

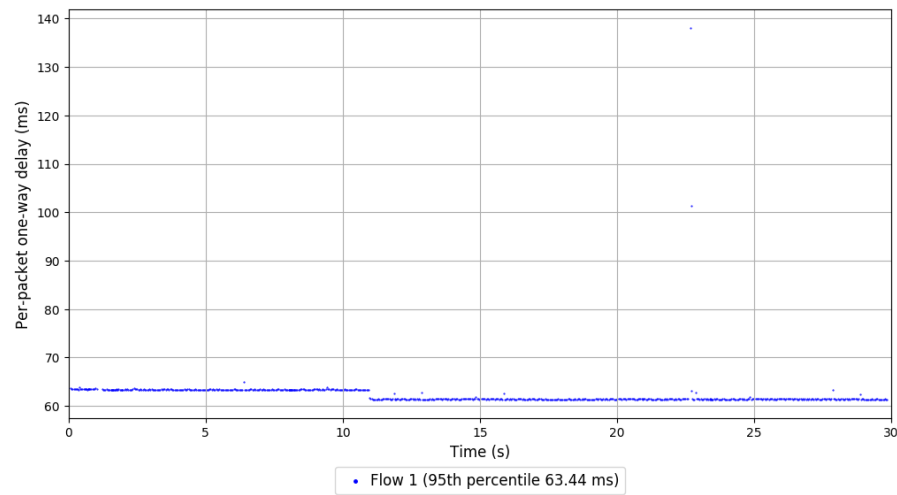
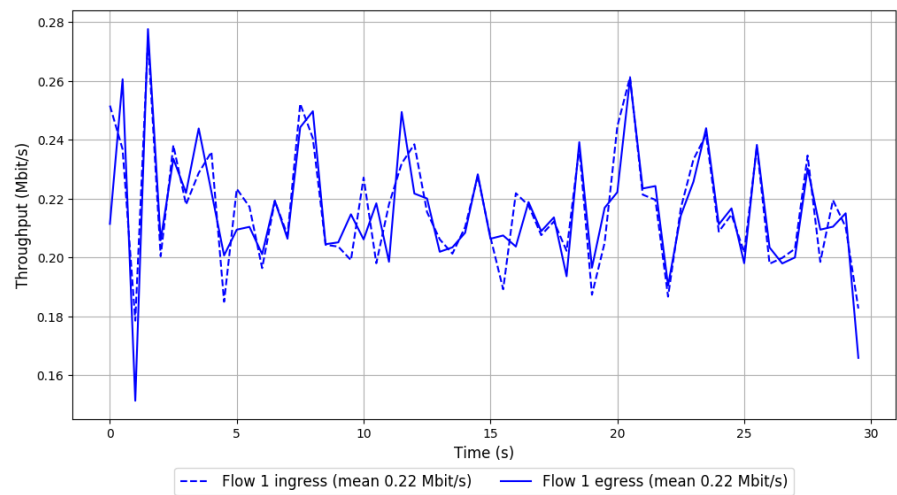


```
Run 7: Statistics of SCReAM

Start at: 2017-10-11 05:26:17
End at: 2017-10-11 05:26:47

# Below is generated by plot.py at 2017-10-11 08:23:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.438 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.438 ms
Loss rate: 0.38%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-10-11 05:36:55

End at: 2017-10-11 05:37:26

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

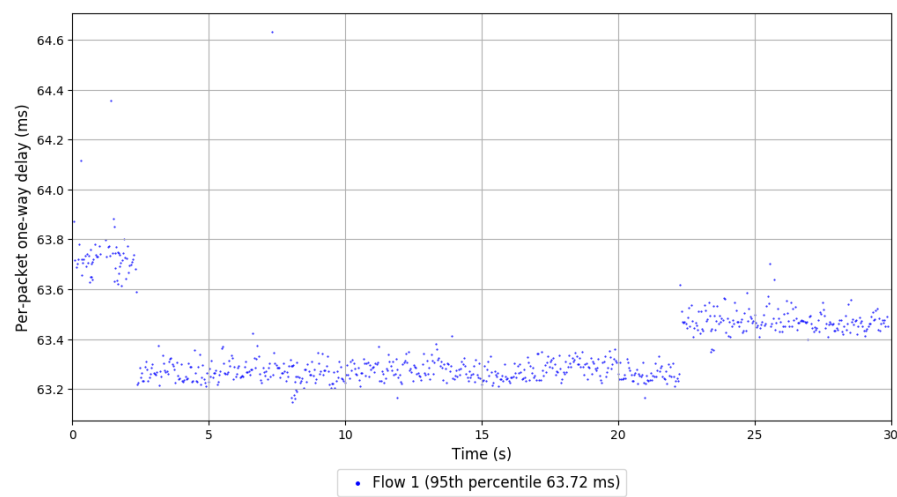
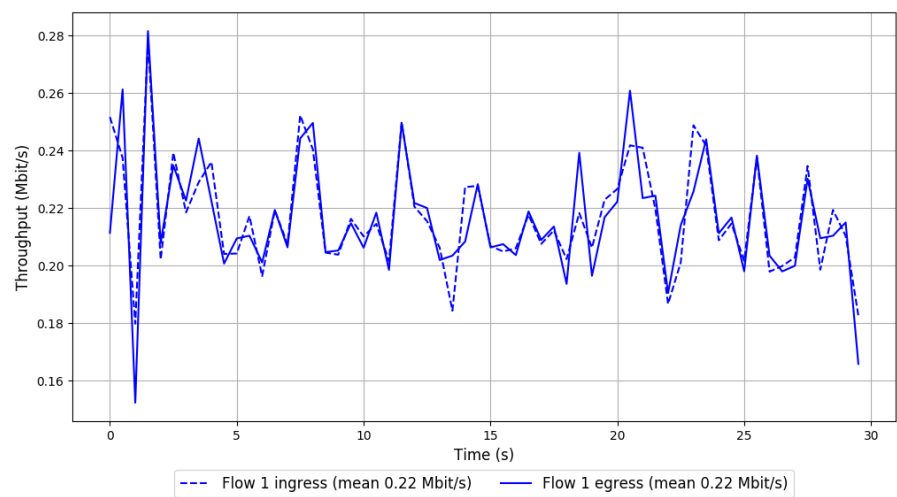
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-10-11 05:47:34

End at: 2017-10-11 05:48:04

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.404 ms

Loss rate: 0.51%

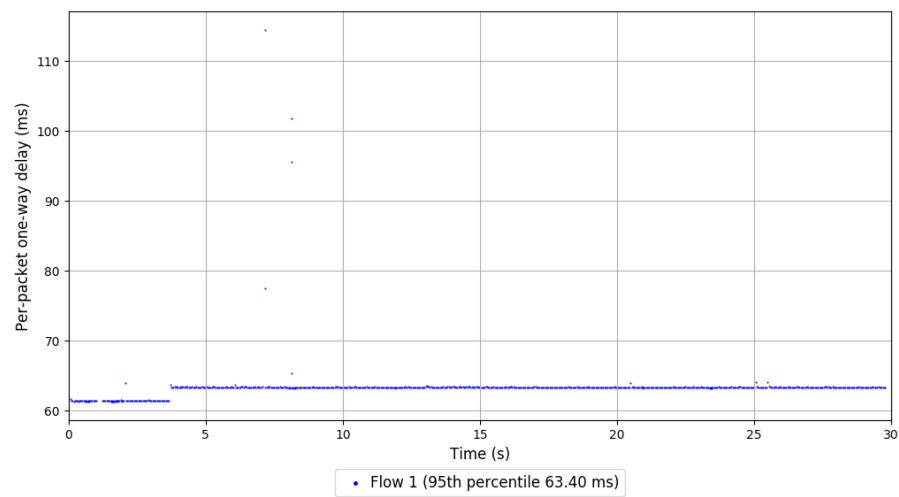
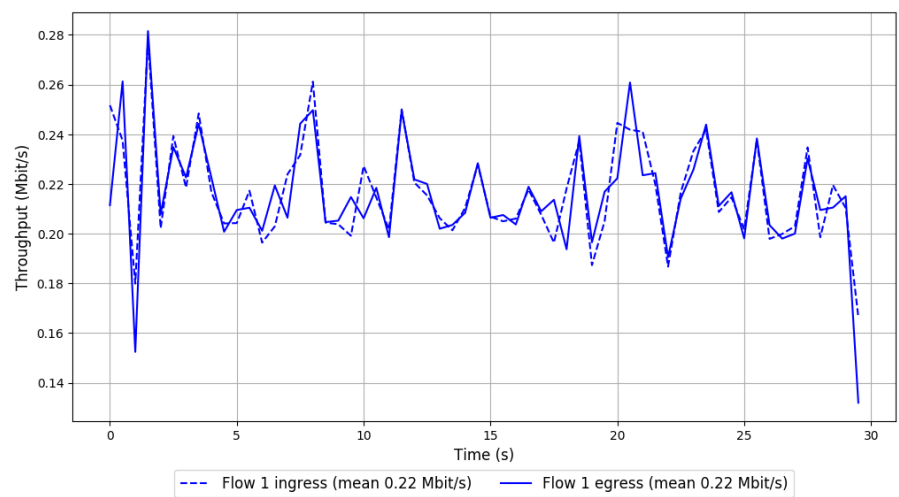
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.404 ms

Loss rate: 0.51%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-10-11 05:57:47

End at: 2017-10-11 05:58:17

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.684 ms

Loss rate: 0.38%

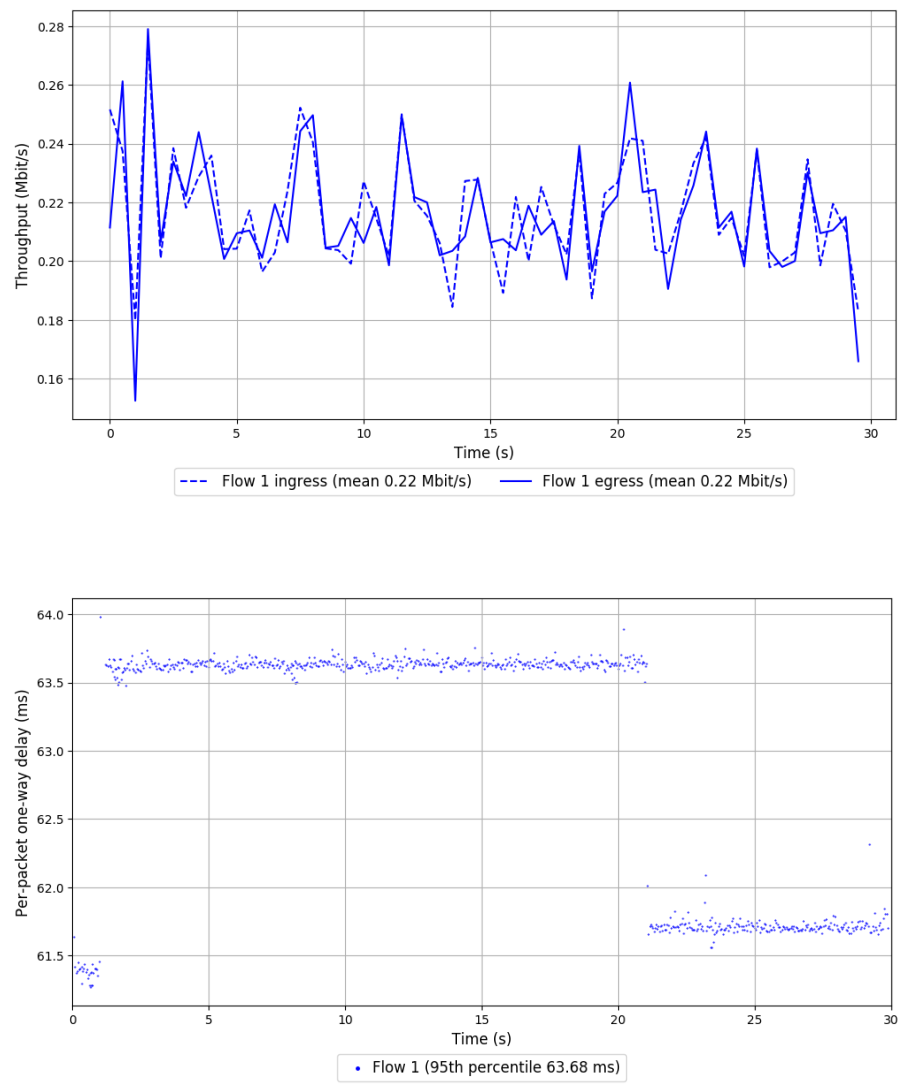
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.684 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

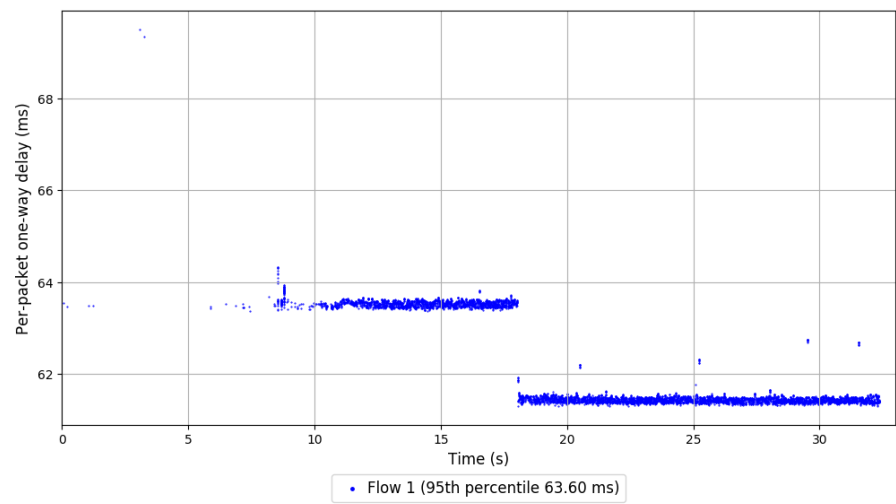
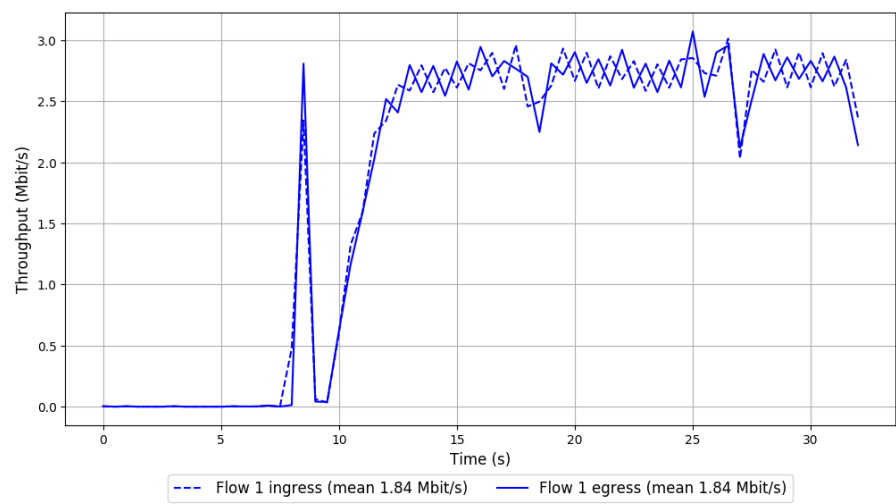


```
Run 1: Statistics of WebRTC media

Start at: 2017-10-11 04:26:02
End at: 2017-10-11 04:26:32

# Below is generated by plot.py at 2017-10-11 08:23:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 63.602 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 63.602 ms
Loss rate: 0.56%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-10-11 04:36:44

End at: 2017-10-11 04:37:14

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.603 ms

Loss rate: 0.60%

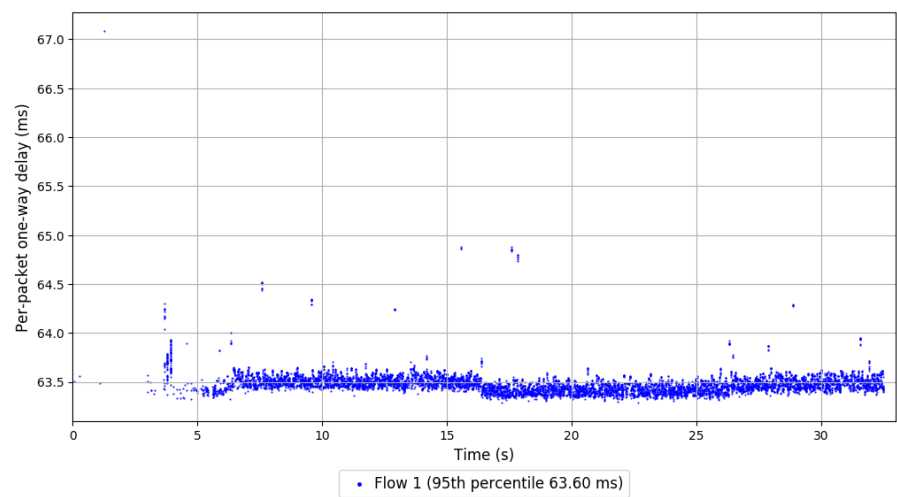
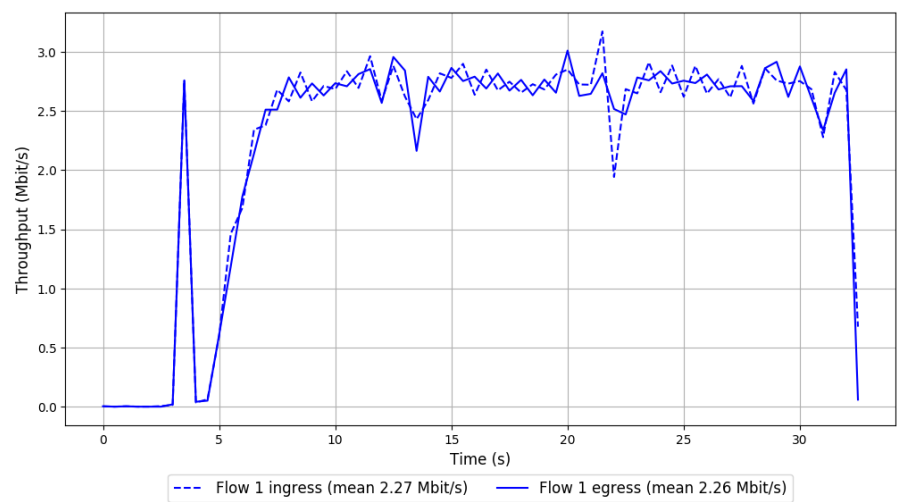
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.603 ms

Loss rate: 0.60%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-10-11 04:47:20

End at: 2017-10-11 04:47:50

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.413 ms

Loss rate: 0.55%

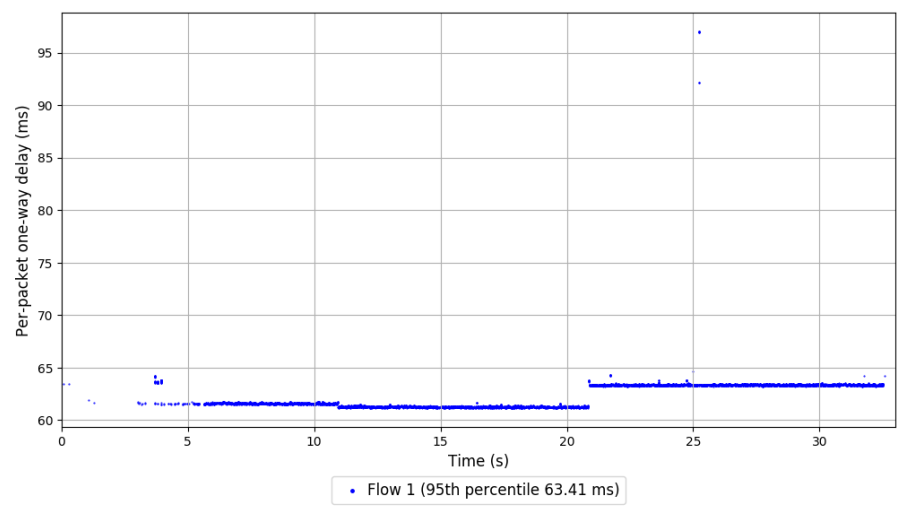
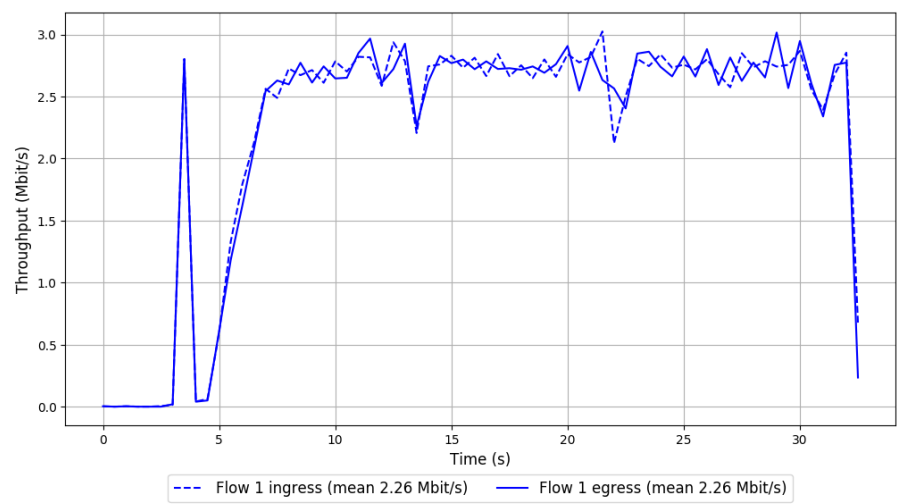
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.413 ms

Loss rate: 0.55%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-10-11 04:58:03

End at: 2017-10-11 04:58:33

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.45%

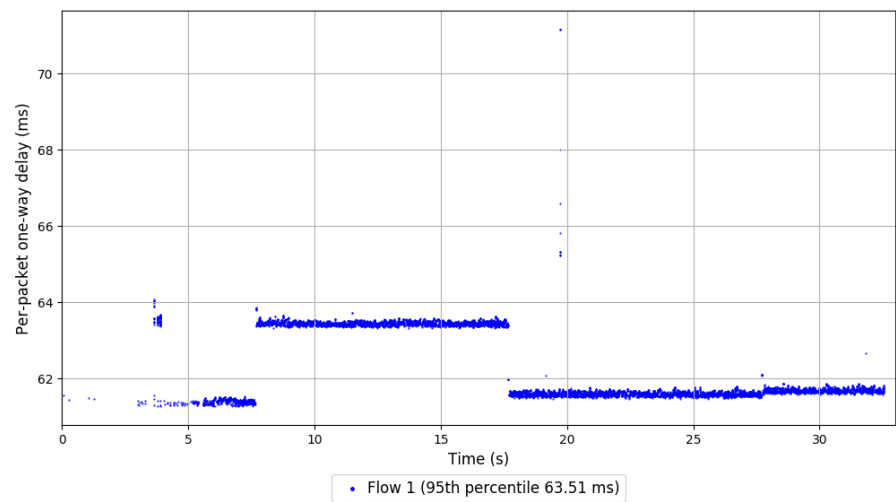
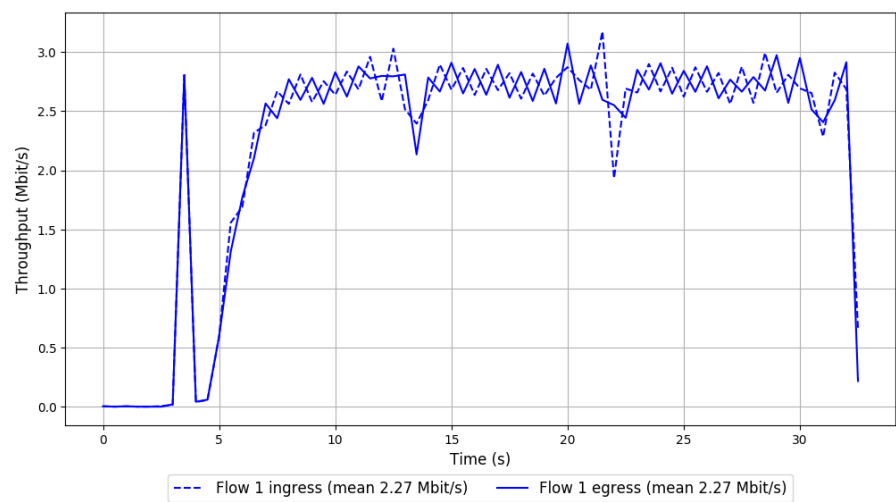
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.507 ms

Loss rate: 0.45%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-10-11 05:08:40

End at: 2017-10-11 05:09:10

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.674 ms

Loss rate: 0.56%

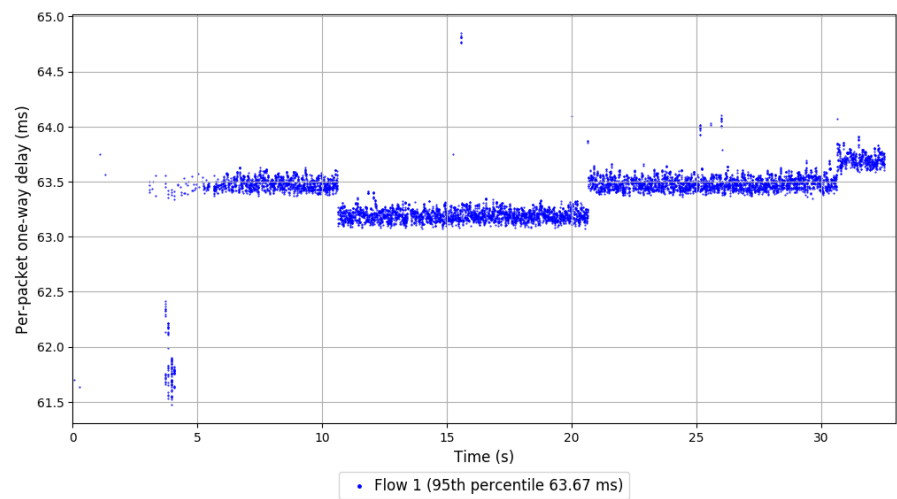
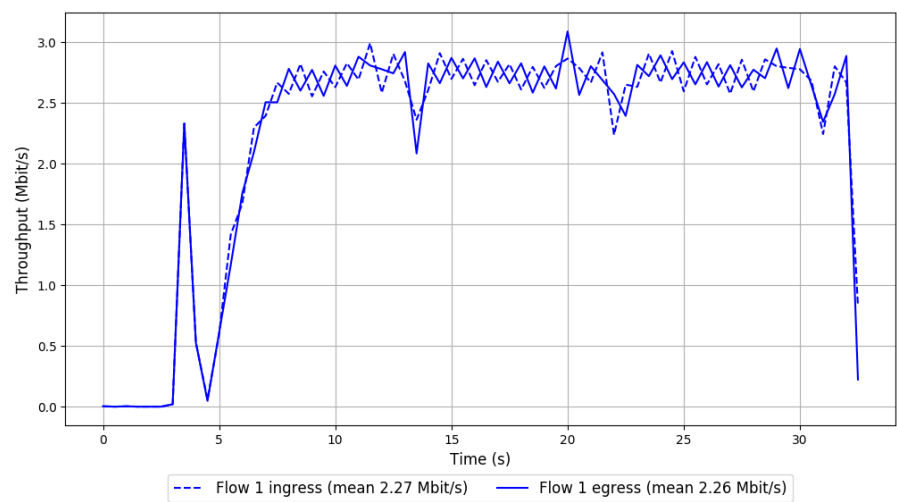
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.674 ms

Loss rate: 0.56%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-10-11 05:19:24

End at: 2017-10-11 05:19:54

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.45%

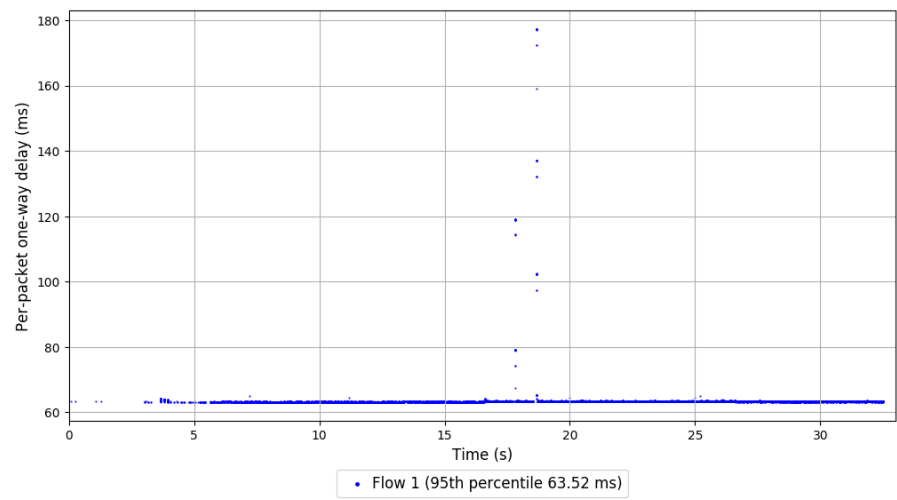
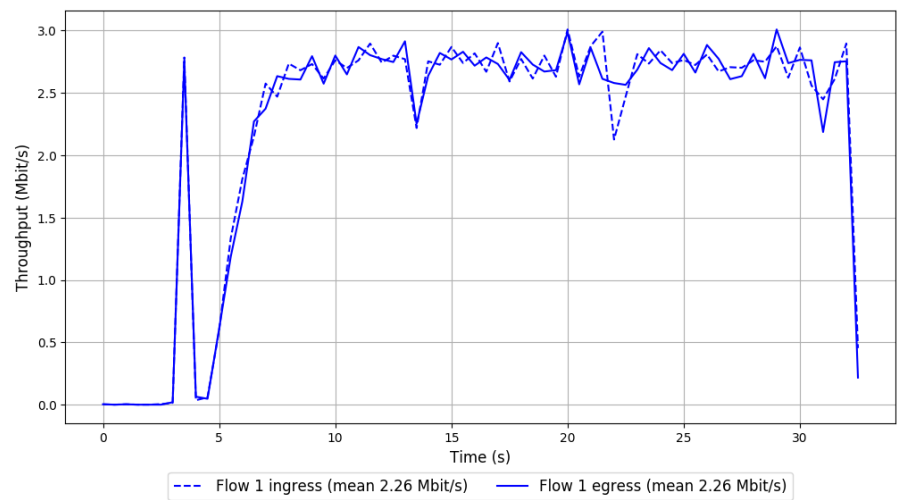
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.45%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-10-11 05:30:01

End at: 2017-10-11 05:30:31

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 0.45%

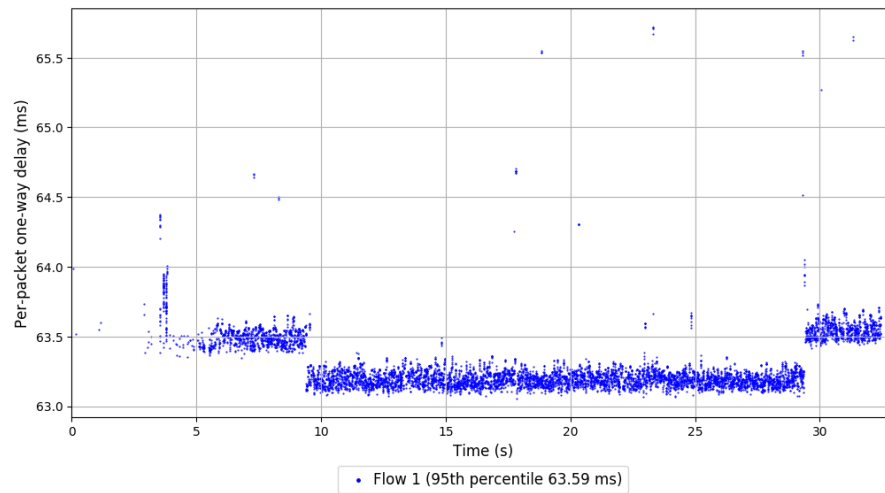
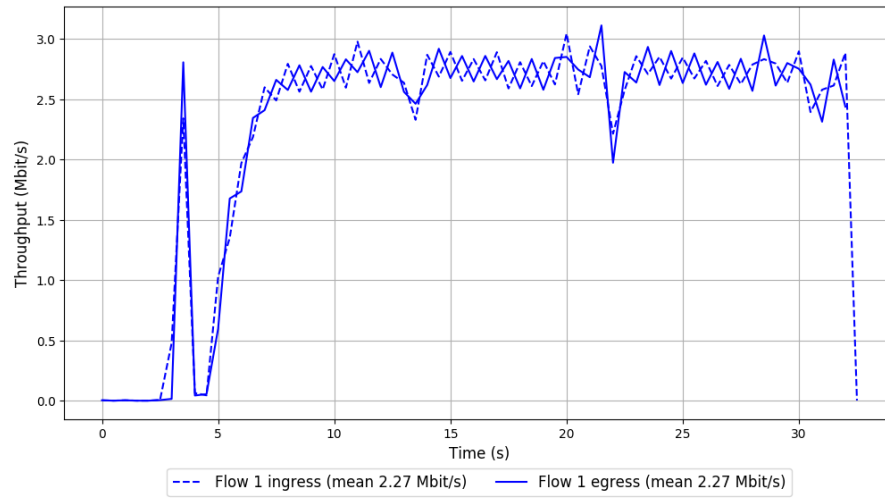
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.587 ms

Loss rate: 0.45%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-10-11 05:40:39

End at: 2017-10-11 05:41:09

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.45%

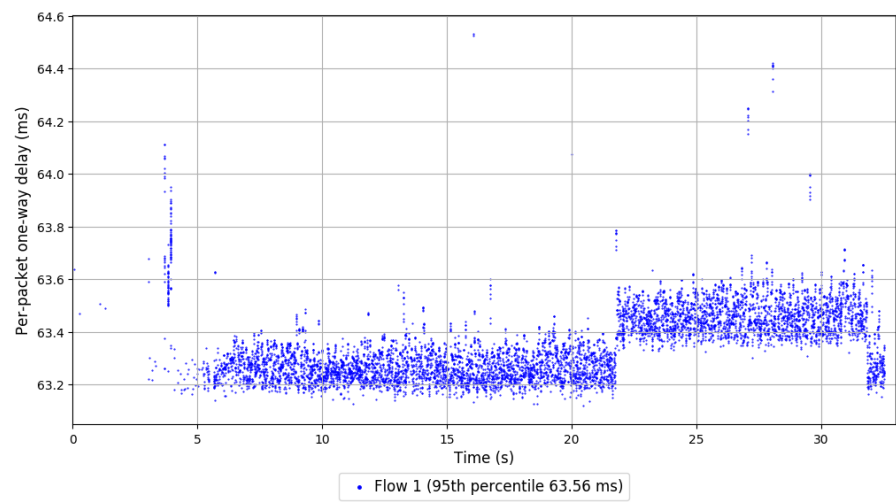
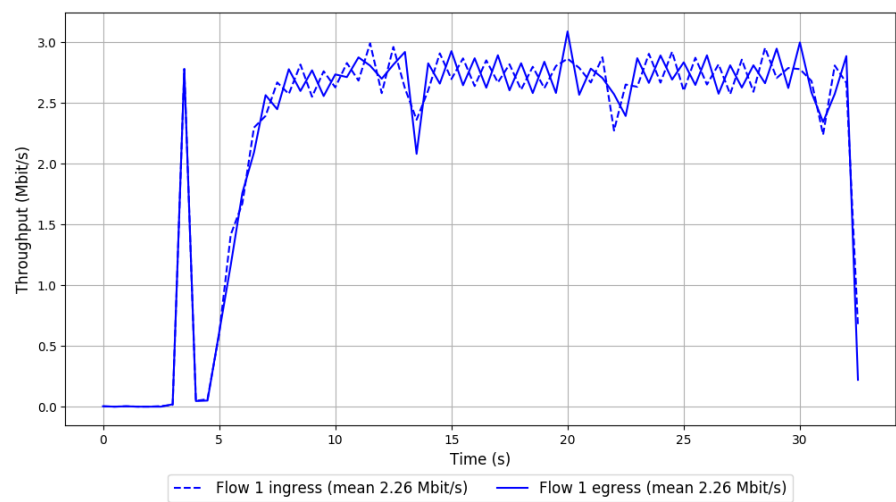
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.45%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-10-11 05:51:17

End at: 2017-10-11 05:51:47

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.45%

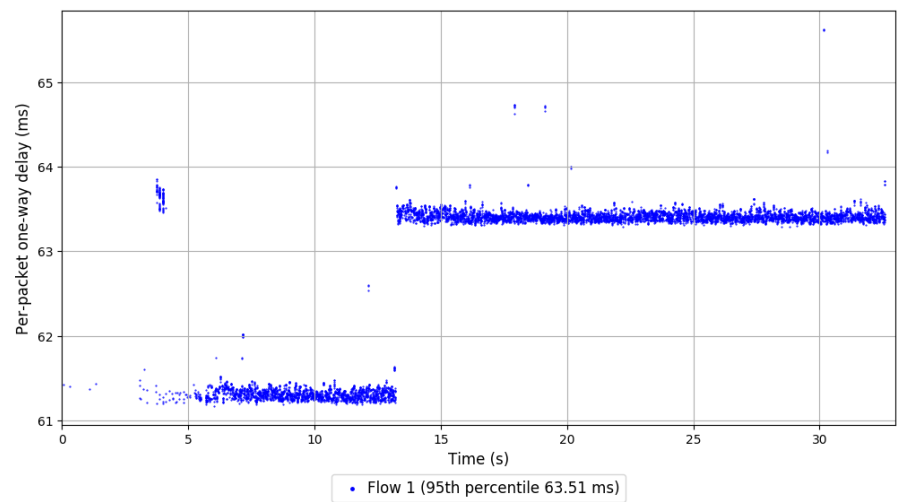
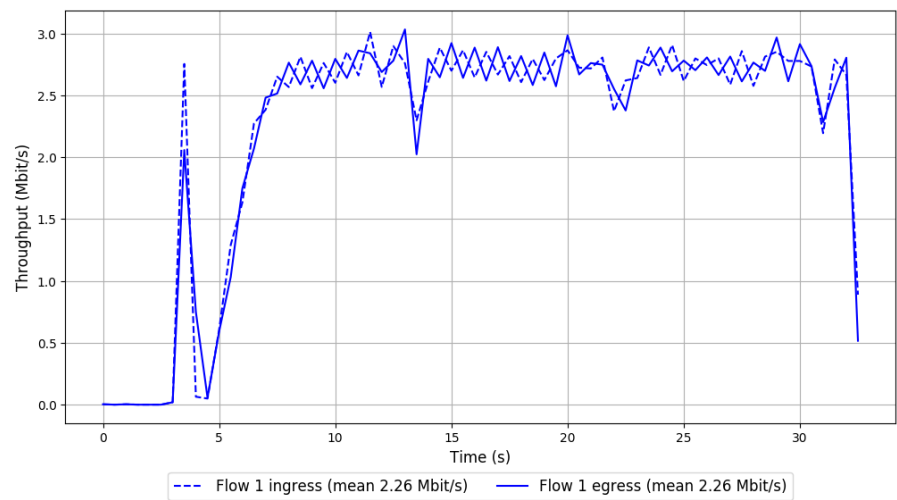
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.45%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-10-11 06:01:32

End at: 2017-10-11 06:02:02

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.56%

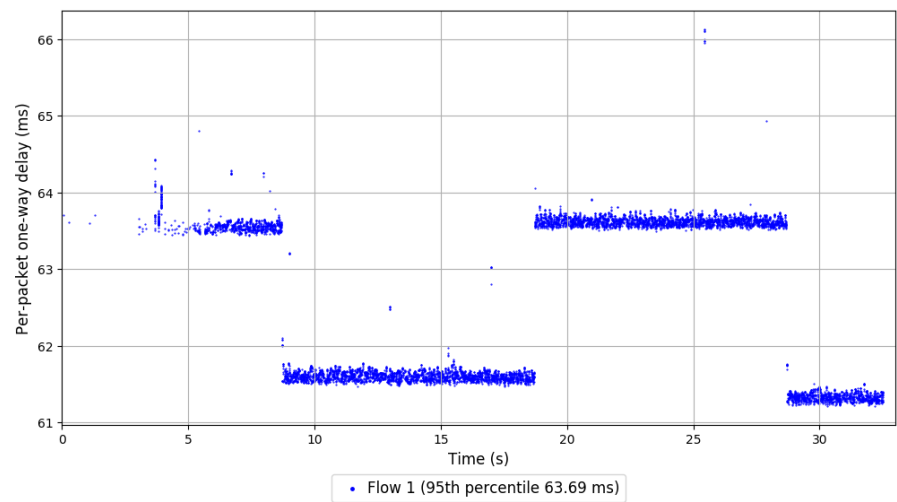
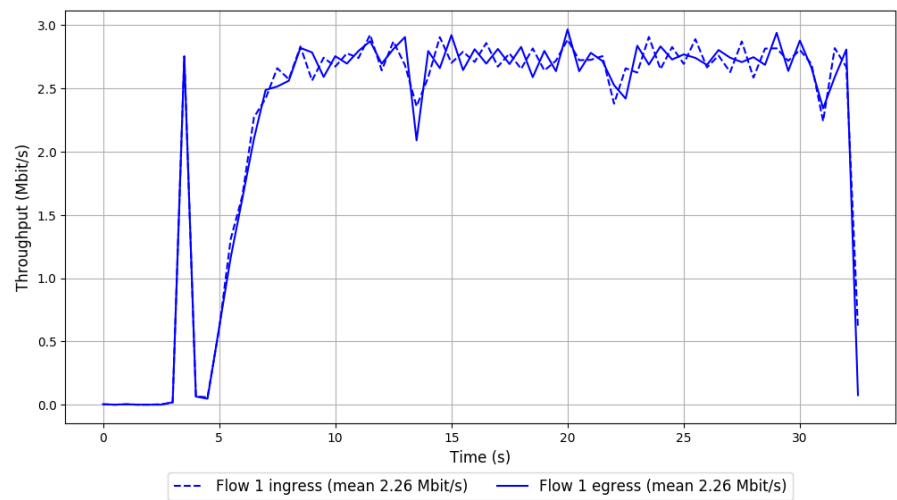
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.56%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-10-11 04:25:24

End at: 2017-10-11 04:25:54

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.495 ms

Loss rate: 0.47%

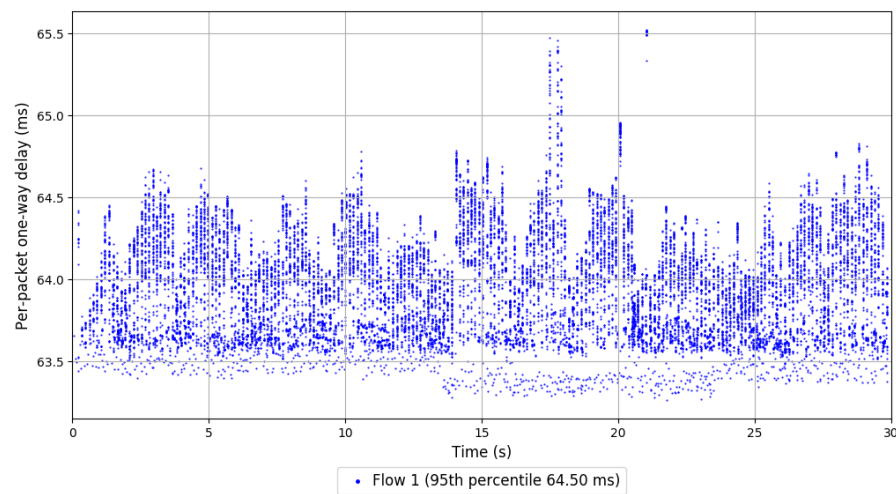
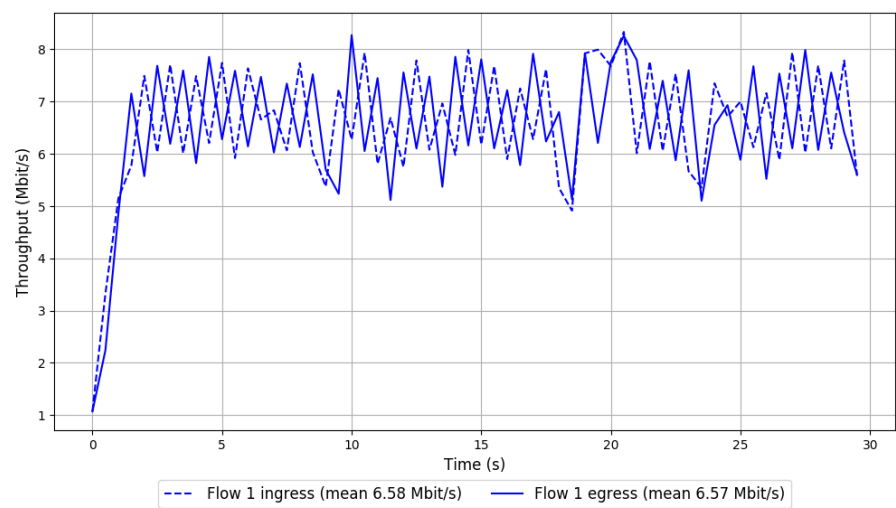
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.495 ms

Loss rate: 0.47%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-10-11 04:36:06

End at: 2017-10-11 04:36:36

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.670 ms

Loss rate: 0.51%

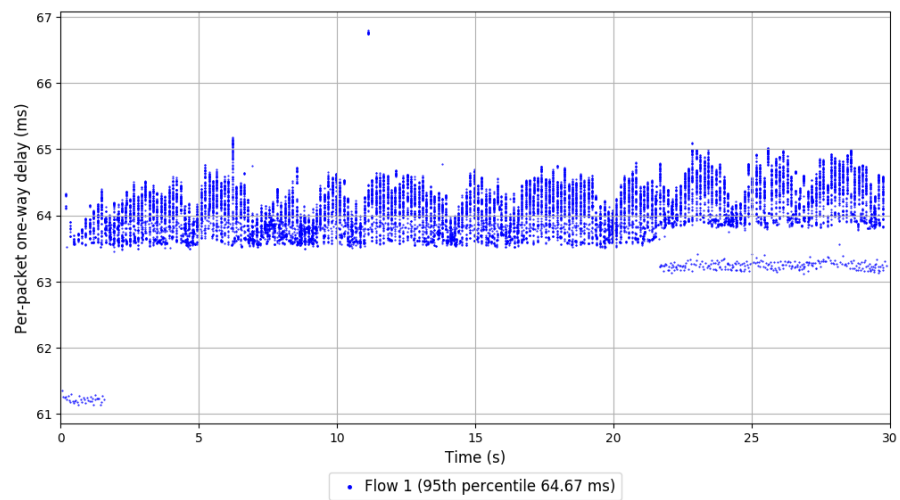
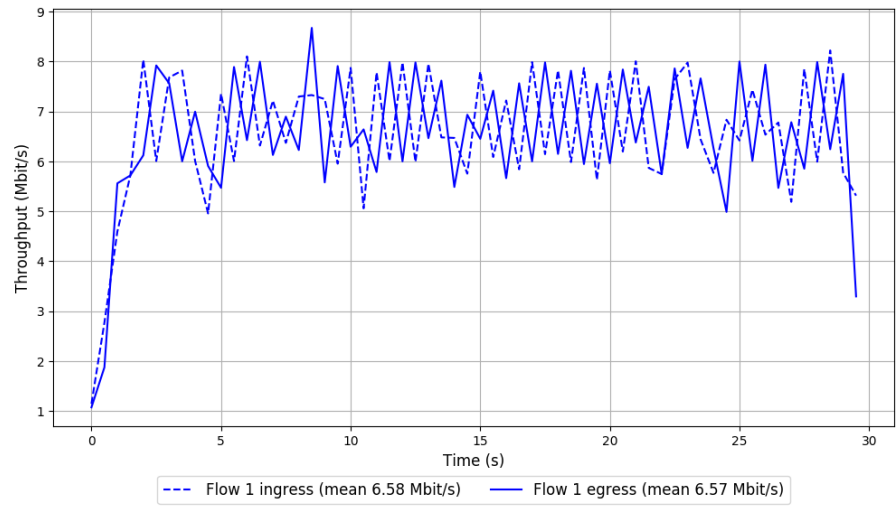
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.670 ms

Loss rate: 0.51%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-10-11 04:46:42

End at: 2017-10-11 04:47:12

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

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

Loss rate: 0.51%

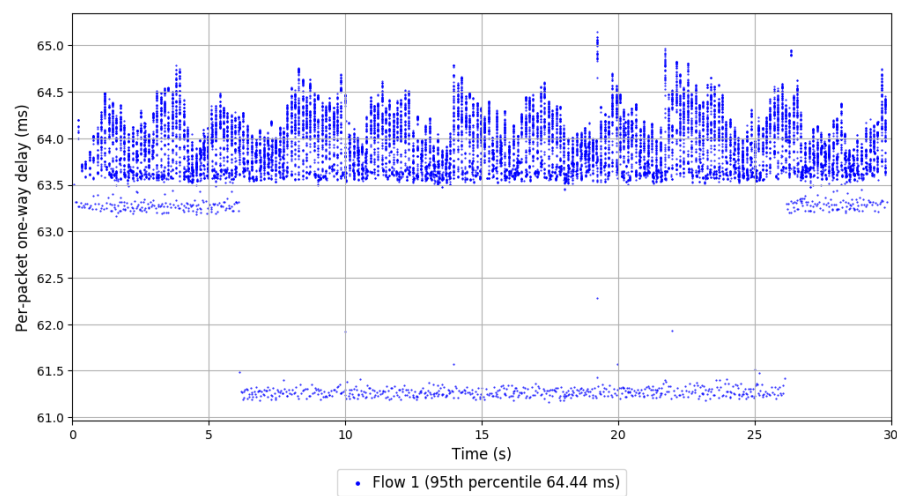
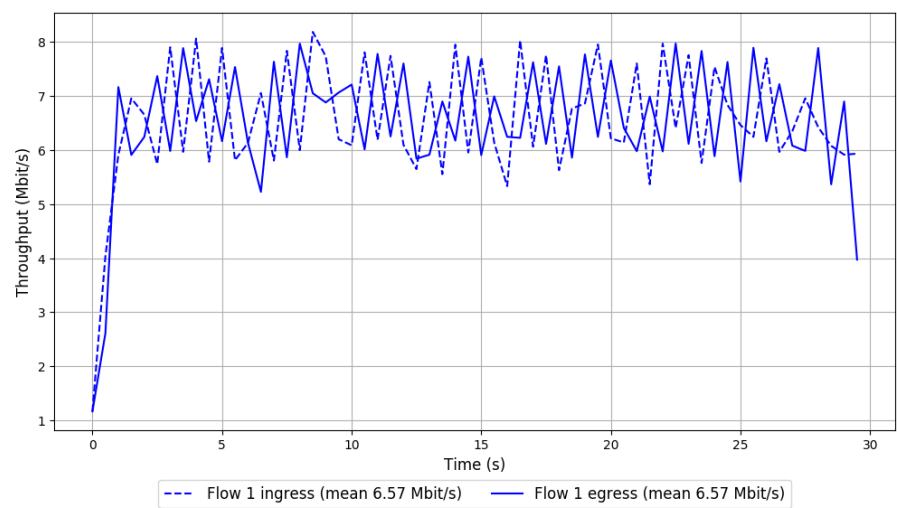
-- Flow 1:

Average throughput: 6.57 Mbit/s

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

Loss rate: 0.51%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-10-11 04:57:25

End at: 2017-10-11 04:57:55

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 64.508 ms

Loss rate: 0.51%

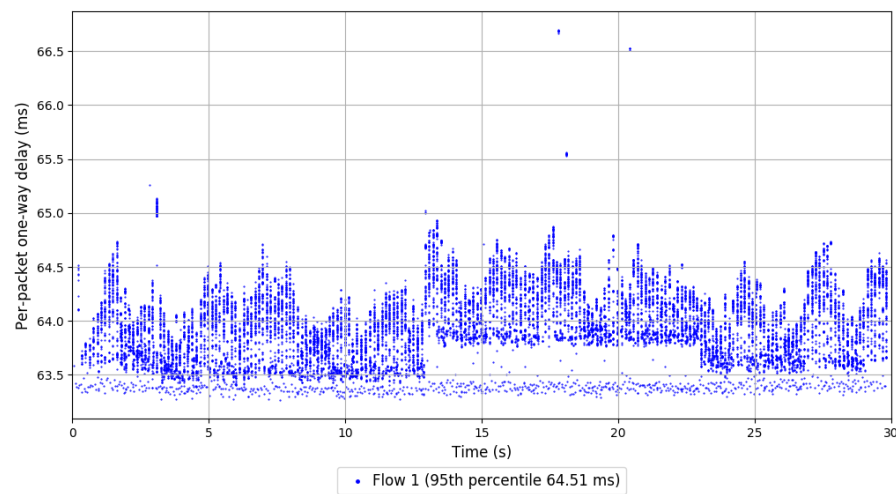
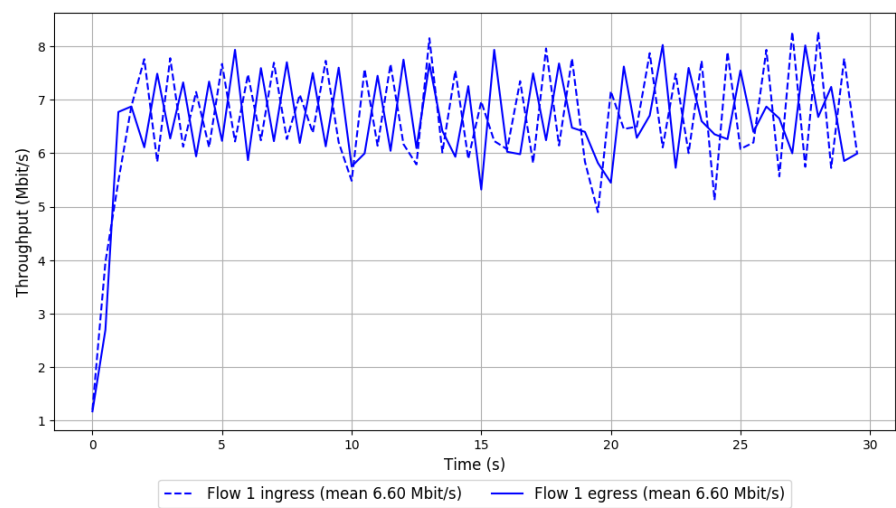
-- Flow 1:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 64.508 ms

Loss rate: 0.51%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-10-11 05:08:02

End at: 2017-10-11 05:08:32

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.387 ms

Loss rate: 0.52%

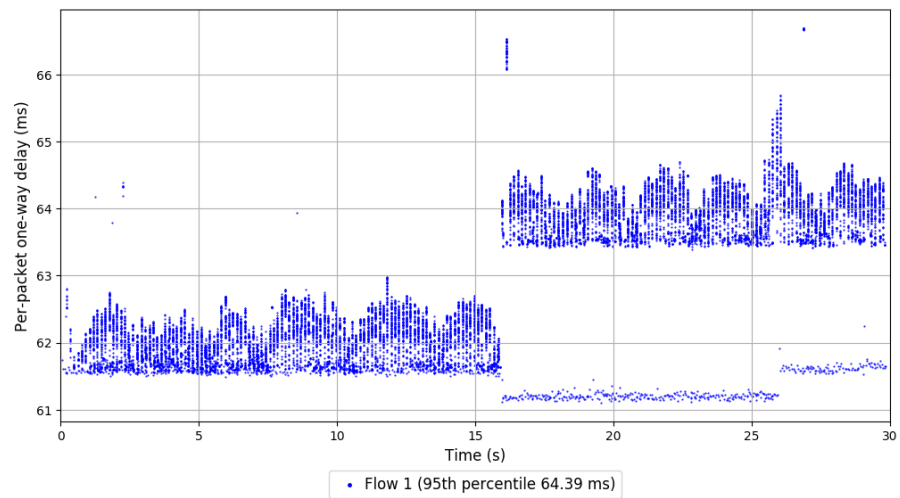
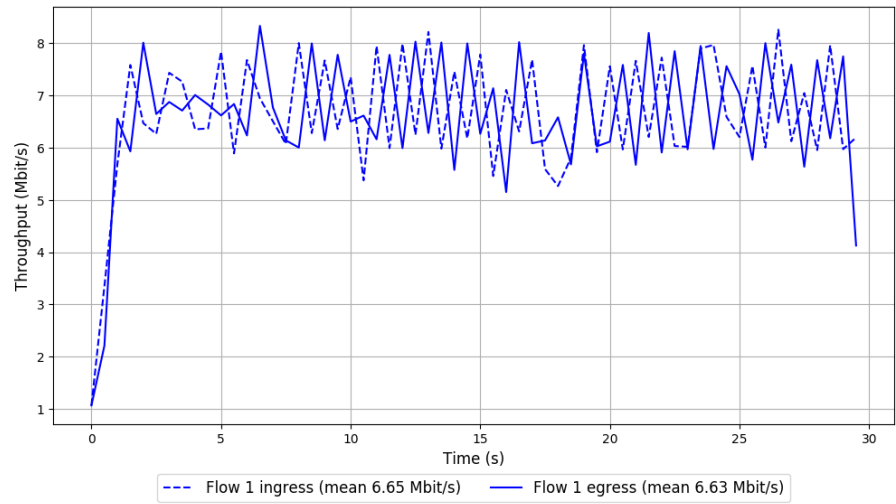
-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.387 ms

Loss rate: 0.52%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-10-11 05:18:46

End at: 2017-10-11 05:19:16

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.71 Mbit/s

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

Loss rate: 0.48%

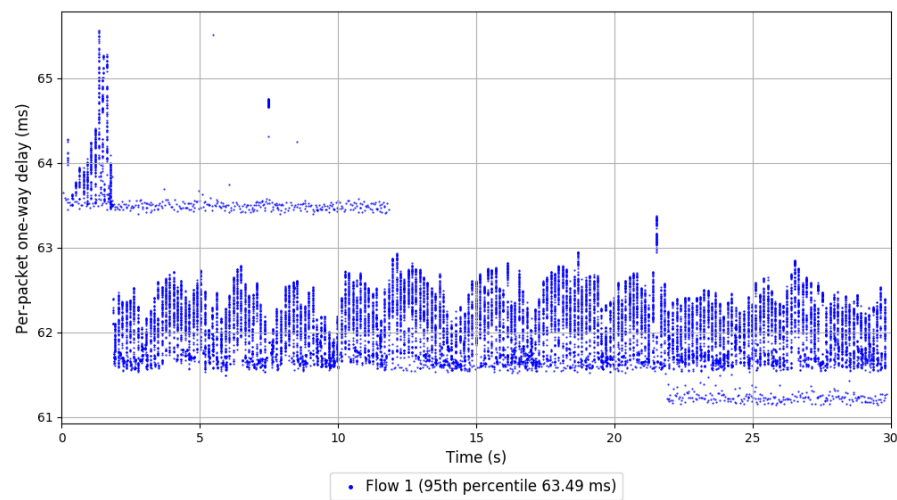
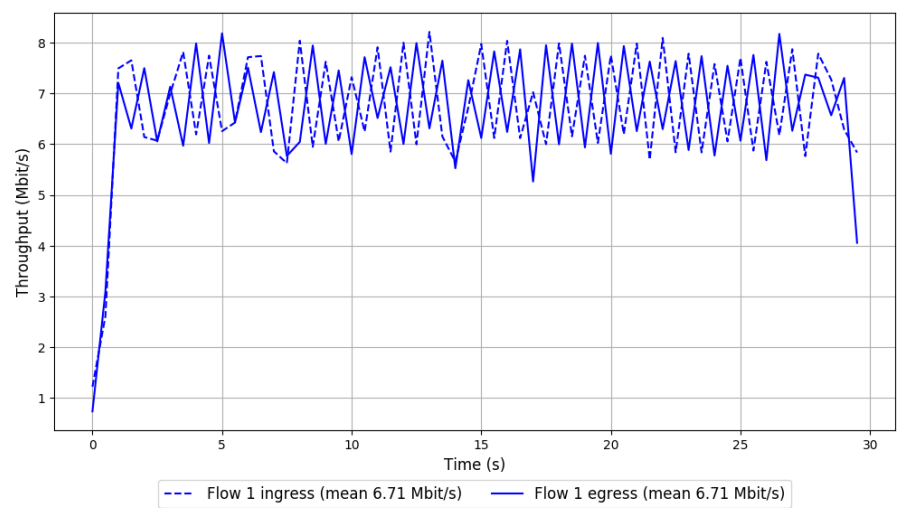
-- Flow 1:

Average throughput: 6.71 Mbit/s

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

Loss rate: 0.48%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-10-11 05:29:23

End at: 2017-10-11 05:29:53

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.498 ms

Loss rate: 0.46%

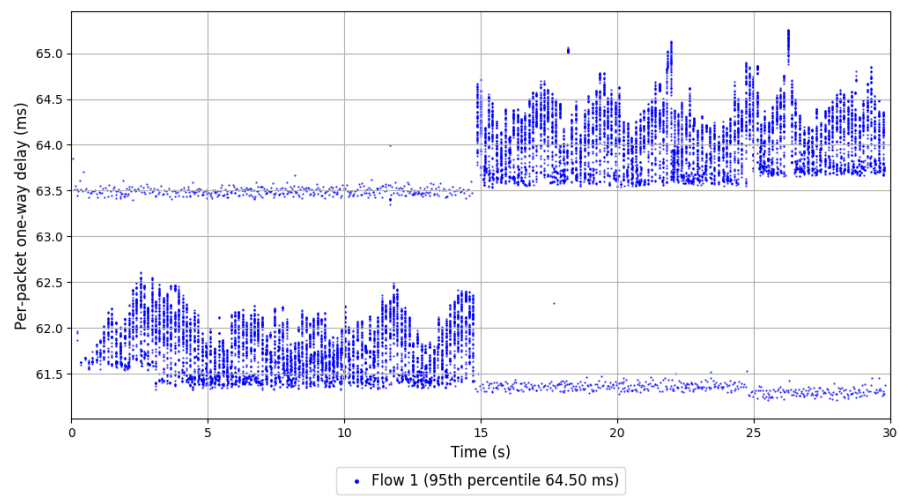
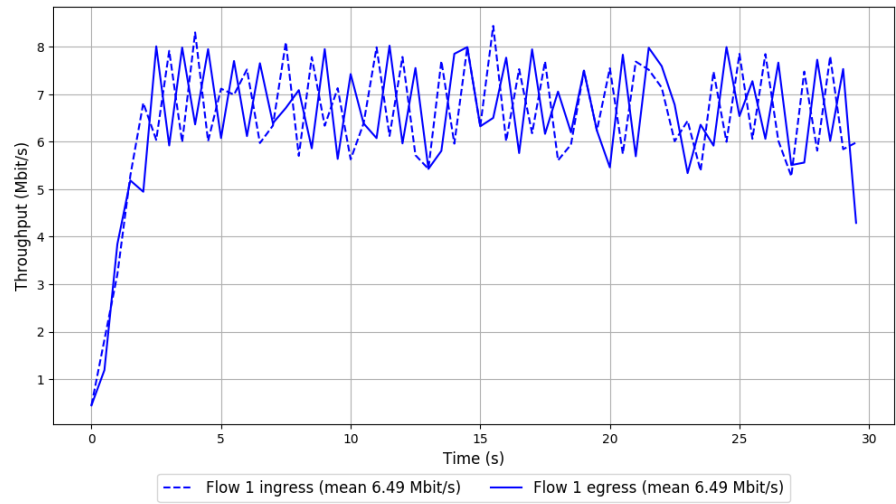
-- Flow 1:

Average throughput: 6.49 Mbit/s

95th percentile per-packet one-way delay: 64.498 ms

Loss rate: 0.46%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-10-11 05:40:01

End at: 2017-10-11 05:40:31

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.61 Mbit/s

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

Loss rate: 0.10%

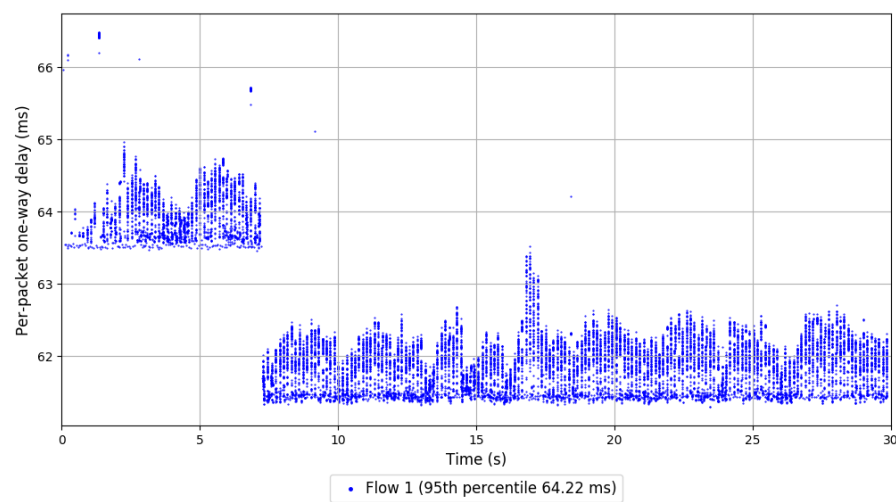
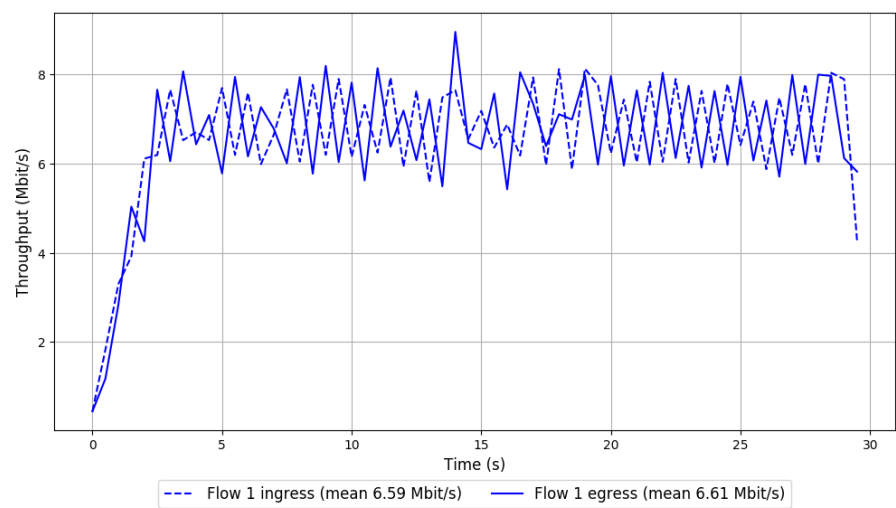
-- Flow 1:

Average throughput: 6.61 Mbit/s

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

Loss rate: 0.10%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-10-11 05:50:39

End at: 2017-10-11 05:51:09

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.510 ms

Loss rate: 0.15%

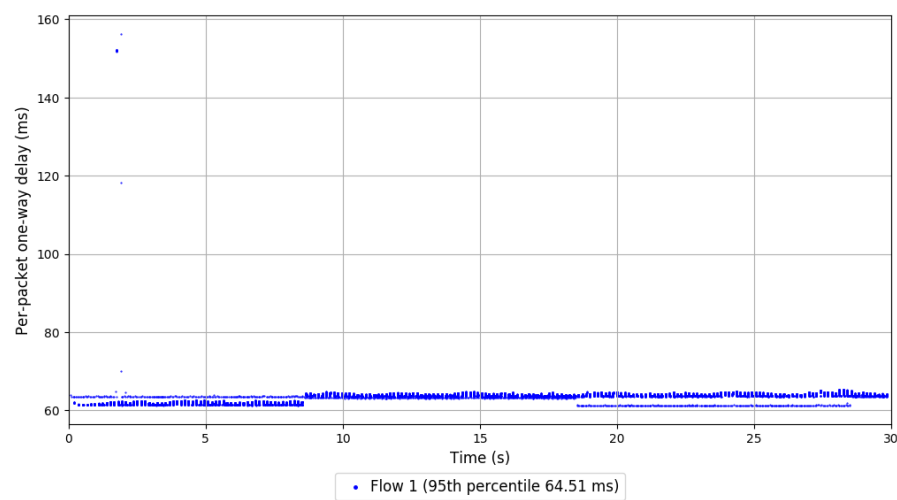
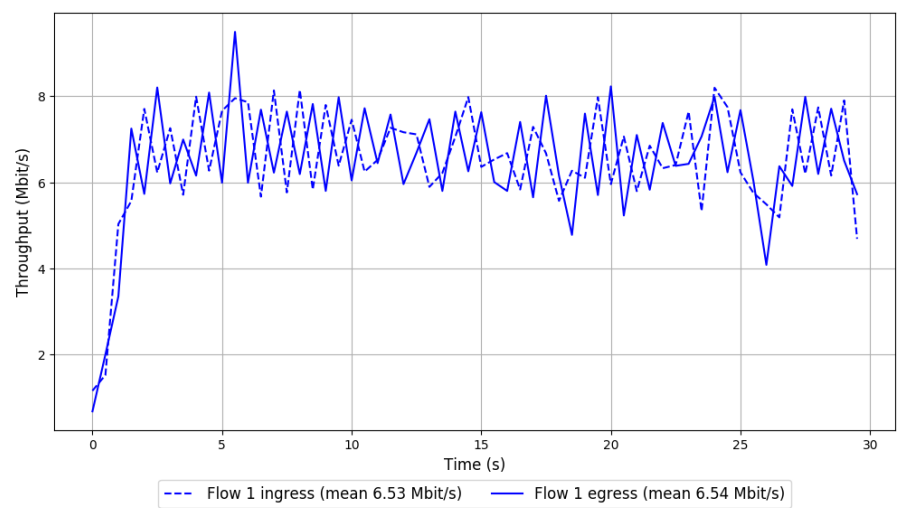
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.510 ms

Loss rate: 0.15%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-10-11 06:00:54

End at: 2017-10-11 06:01:24

Below is generated by plot.py at 2017-10-11 08:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.522 ms

Loss rate: 0.42%

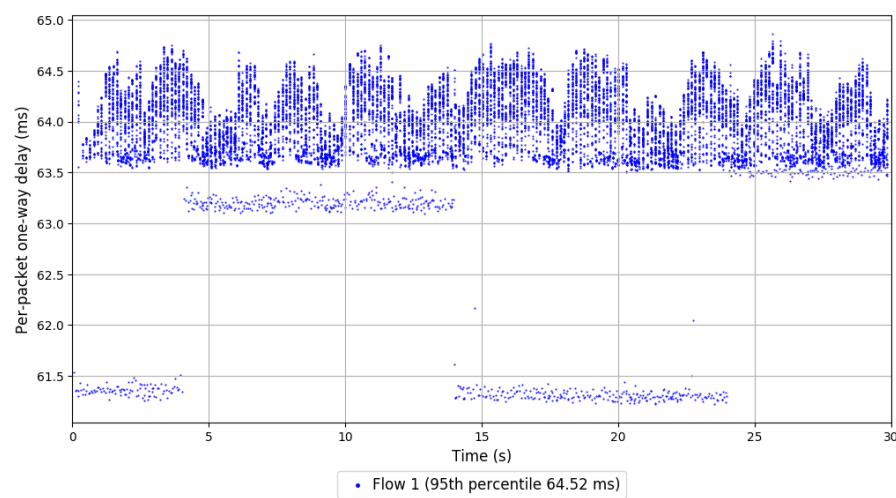
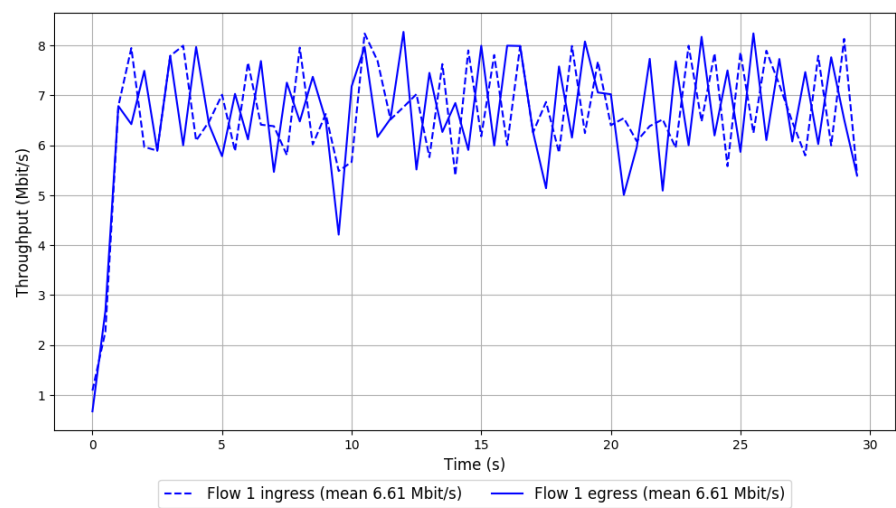
-- Flow 1:

Average throughput: 6.61 Mbit/s

95th percentile per-packet one-way delay: 64.522 ms

Loss rate: 0.42%

Run 10: Report of Sprout — Data Link

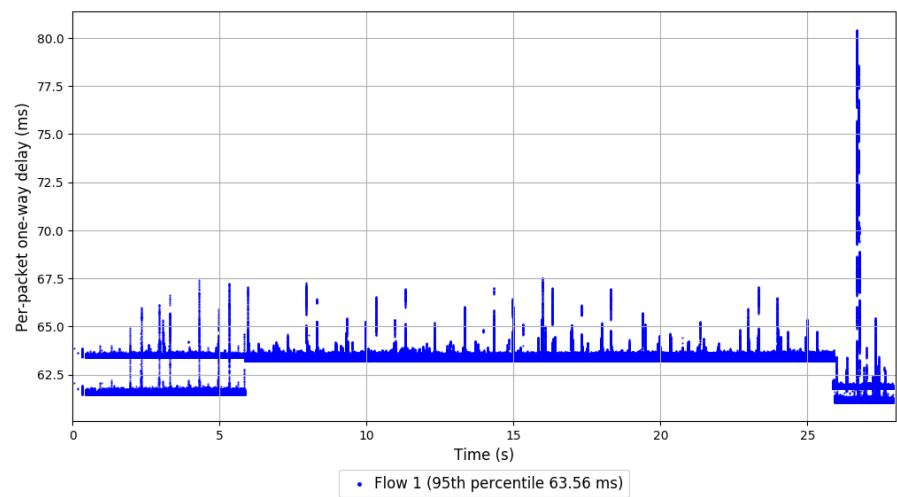
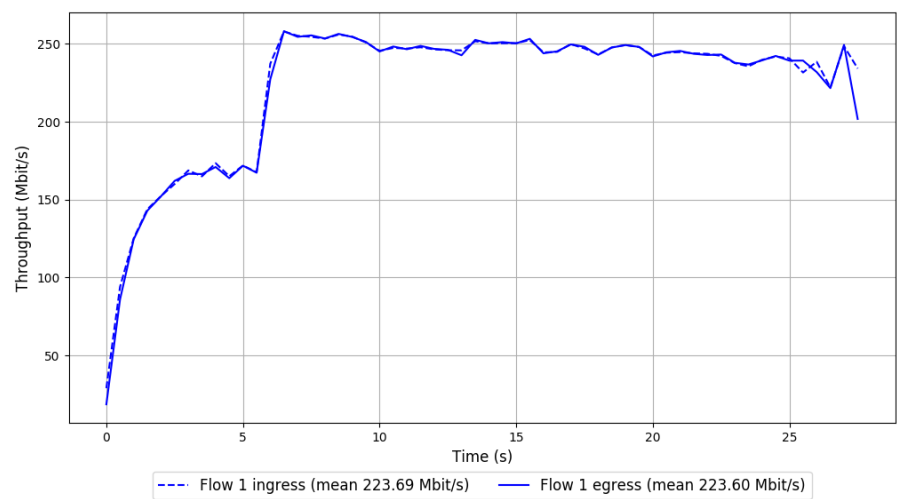


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-10-11 04:26:40
End at: 2017-10-11 04:27:10

# Below is generated by plot.py at 2017-10-11 08:23:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.60 Mbit/s
95th percentile per-packet one-way delay: 63.559 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 223.60 Mbit/s
95th percentile per-packet one-way delay: 63.559 ms
Loss rate: 0.49%
```


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

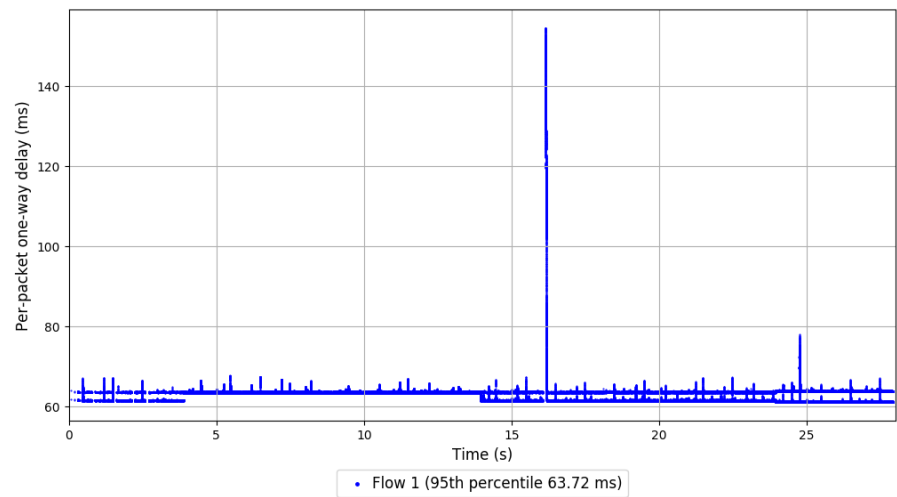
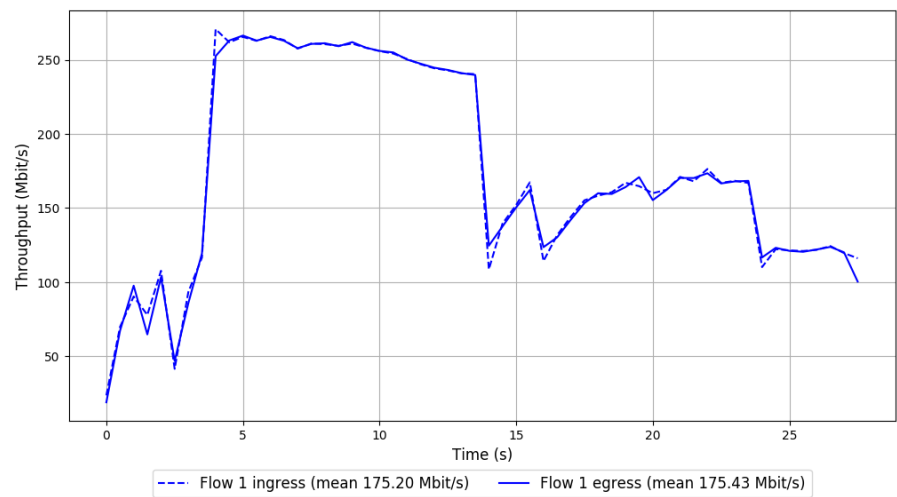


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-10-11 04:37:22
End at: 2017-10-11 04:37:52

# Below is generated by plot.py at 2017-10-11 08:23:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 175.43 Mbit/s
95th percentile per-packet one-way delay: 63.724 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 175.43 Mbit/s
95th percentile per-packet one-way delay: 63.724 ms
Loss rate: 0.32%
```

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

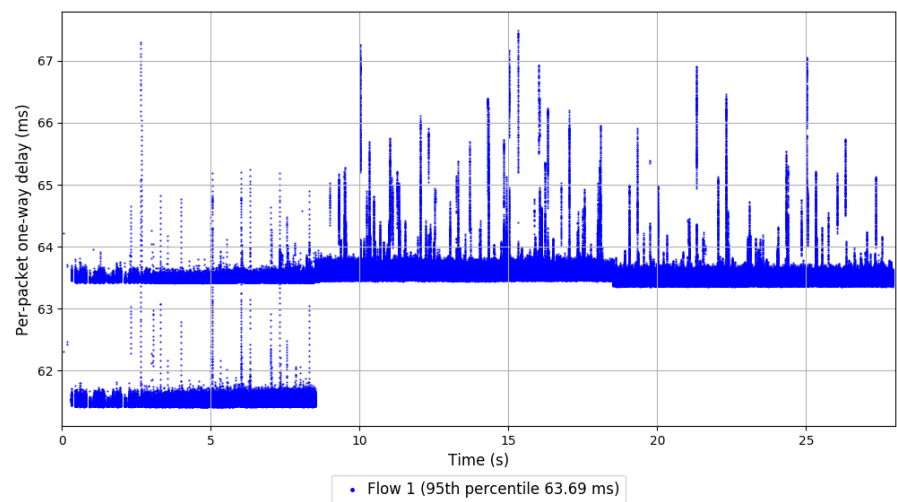
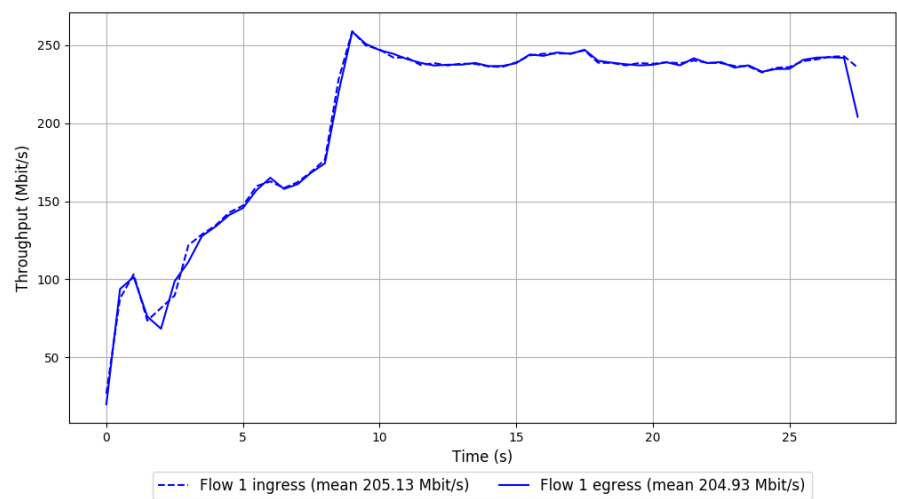


```
Run 3: Statistics of TaoVA-100x

Start at: 2017-10-11 04:47:57
End at: 2017-10-11 04:48:27

# Below is generated by plot.py at 2017-10-11 08:23:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.93 Mbit/s
95th percentile per-packet one-way delay: 63.689 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 204.93 Mbit/s
95th percentile per-packet one-way delay: 63.689 ms
Loss rate: 0.55%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-10-11 04:58:40

End at: 2017-10-11 04:59:11

Below is generated by plot.py at 2017-10-11 08:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.34 Mbit/s

95th percentile per-packet one-way delay: 63.509 ms

Loss rate: 0.38%

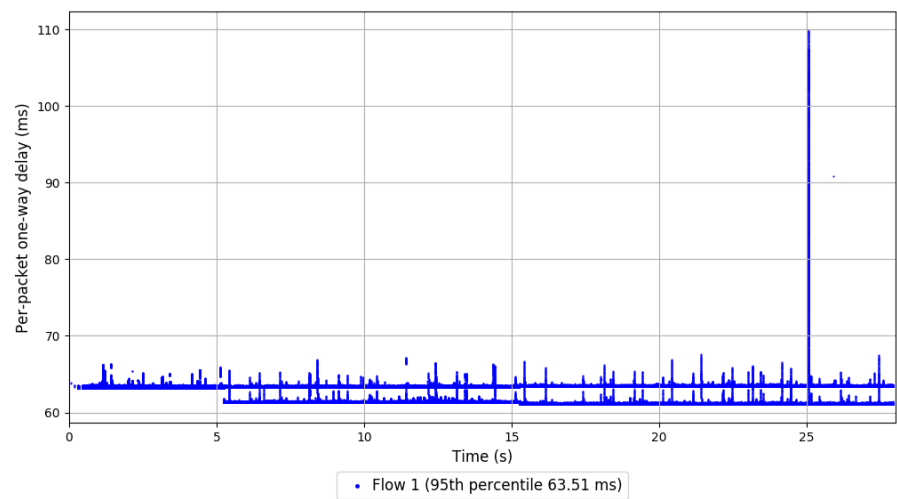
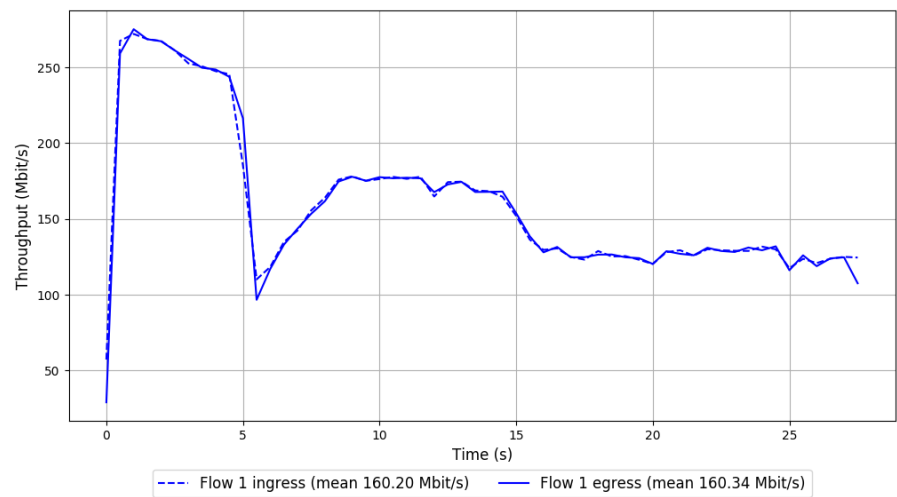
-- Flow 1:

Average throughput: 160.34 Mbit/s

95th percentile per-packet one-way delay: 63.509 ms

Loss rate: 0.38%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-10-11 05:09:17

End at: 2017-10-11 05:09:48

Below is generated by plot.py at 2017-10-11 08:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 63.493 ms

Loss rate: 0.58%

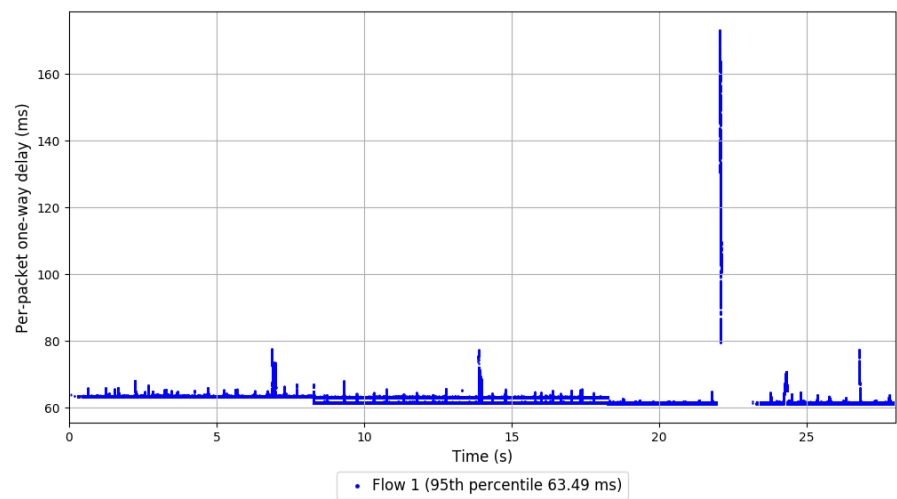
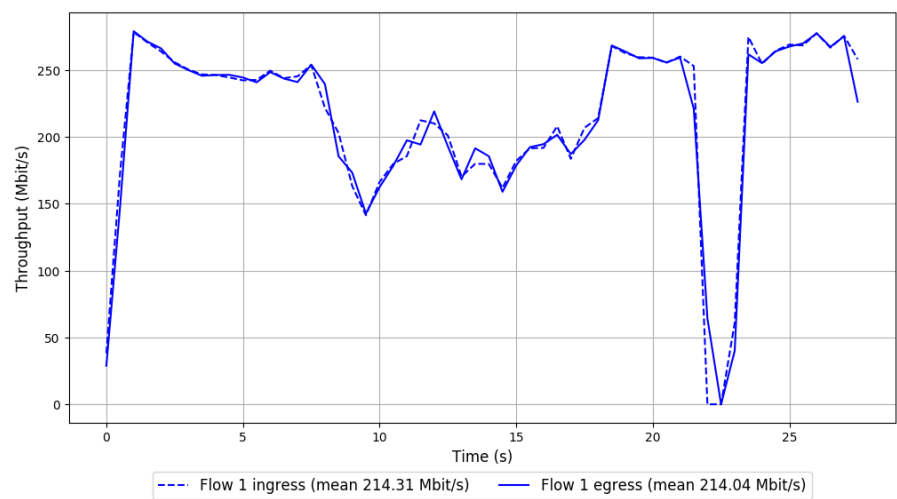
-- Flow 1:

Average throughput: 214.04 Mbit/s

95th percentile per-packet one-way delay: 63.493 ms

Loss rate: 0.58%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-10-11 05:20:02

End at: 2017-10-11 05:20:32

Below is generated by plot.py at 2017-10-11 08:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.72 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.23%

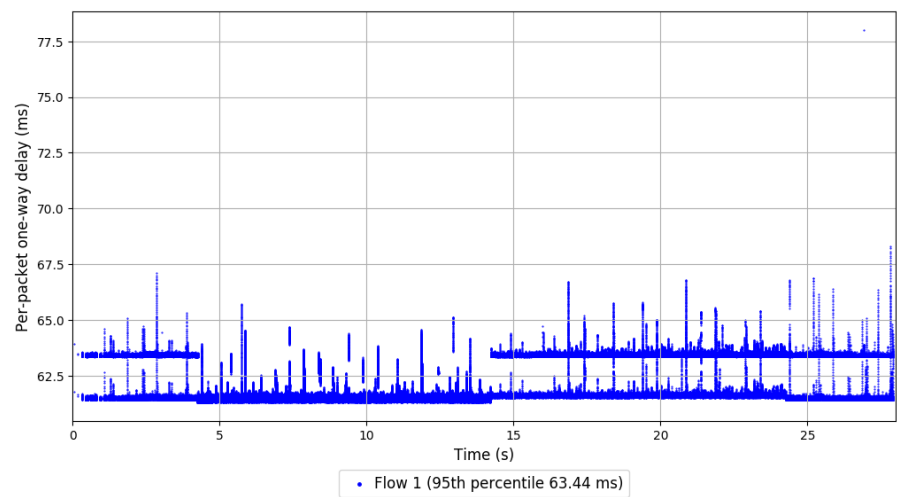
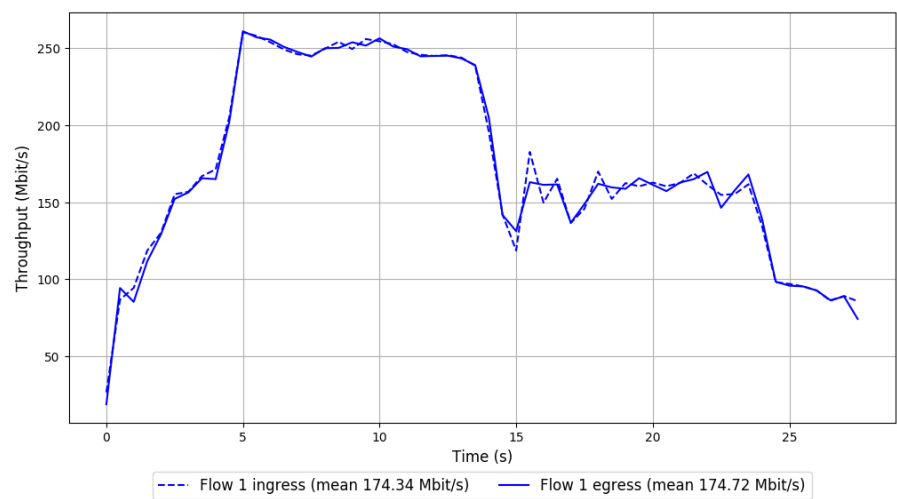
-- Flow 1:

Average throughput: 174.72 Mbit/s

95th percentile per-packet one-way delay: 63.443 ms

Loss rate: 0.23%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-10-11 05:30:39

End at: 2017-10-11 05:31:09

Below is generated by plot.py at 2017-10-11 08:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.45 Mbit/s

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

Loss rate: 0.42%

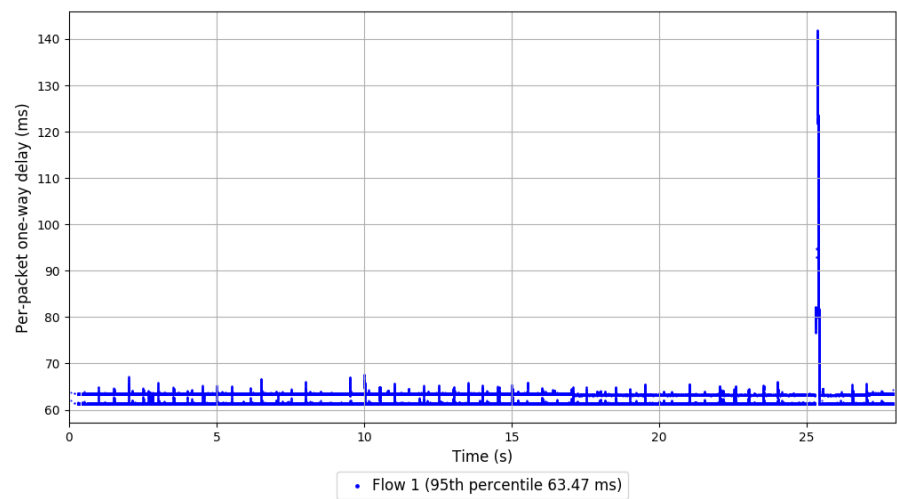
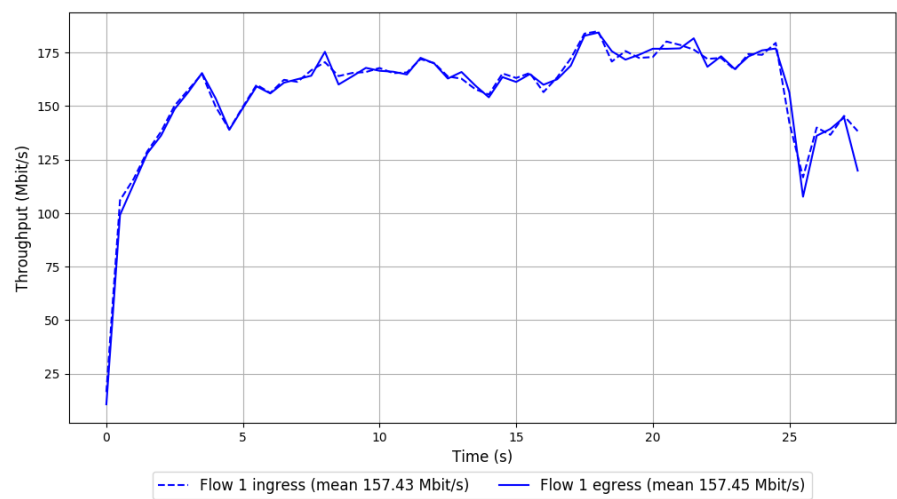
-- Flow 1:

Average throughput: 157.45 Mbit/s

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

Loss rate: 0.42%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-10-11 05:41:16

End at: 2017-10-11 05:41:46

Below is generated by plot.py at 2017-10-11 08:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.03 Mbit/s

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

Loss rate: 0.46%

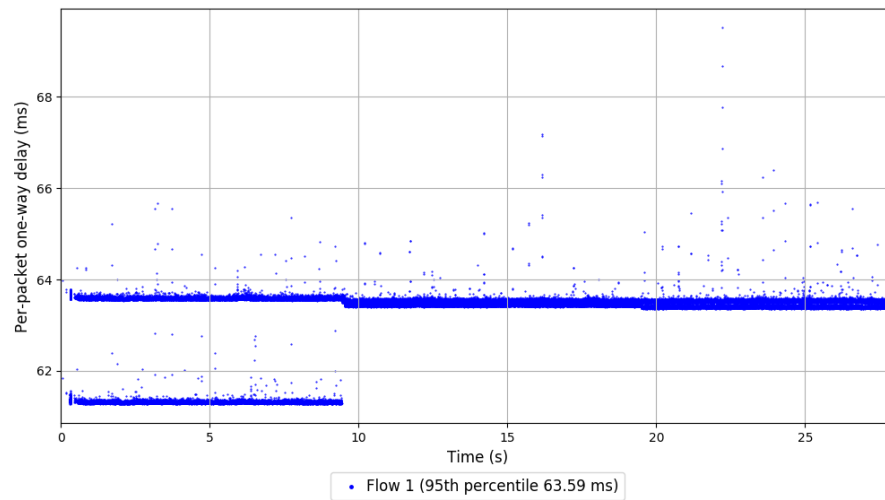
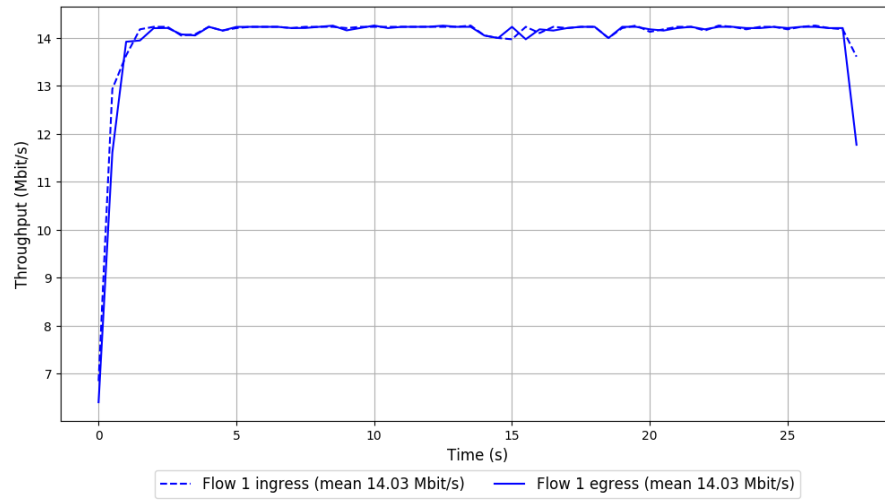
-- Flow 1:

Average throughput: 14.03 Mbit/s

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

Loss rate: 0.46%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-10-11 05:51:55

End at: 2017-10-11 05:52:25

Below is generated by plot.py at 2017-10-11 08:23:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 63.561 ms

Loss rate: 2.86%

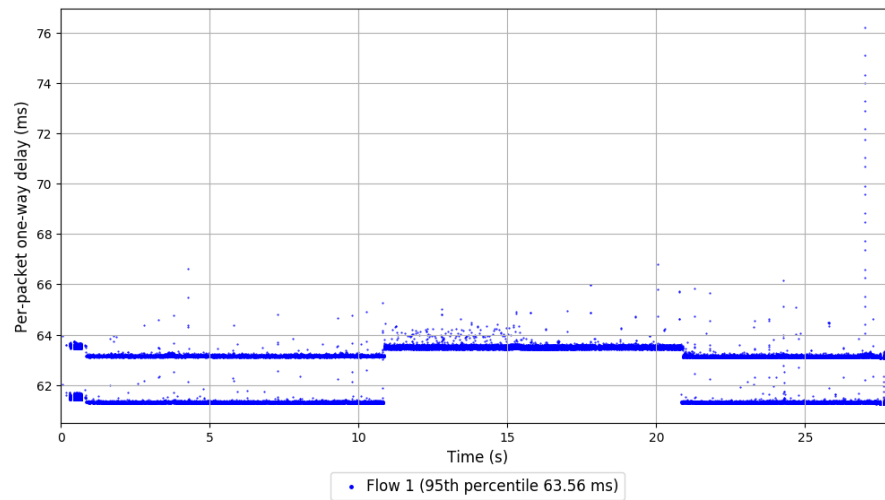
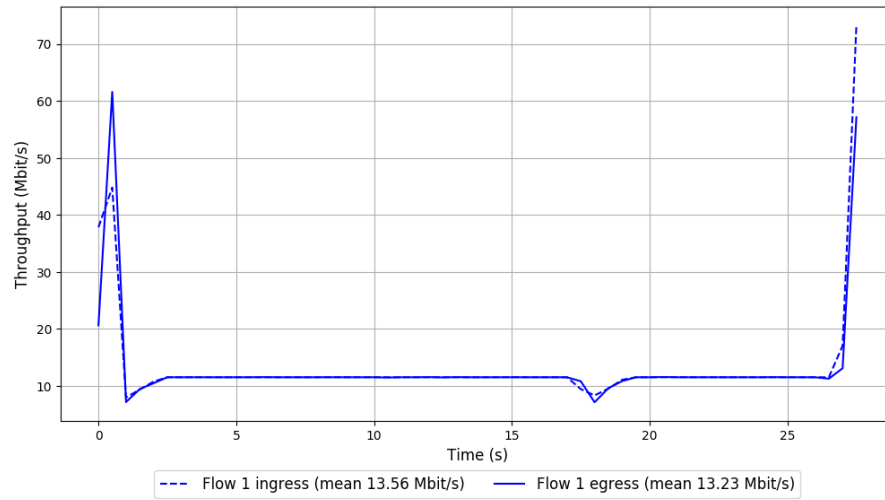
-- Flow 1:

Average throughput: 13.23 Mbit/s

95th percentile per-packet one-way delay: 63.561 ms

Loss rate: 2.86%

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

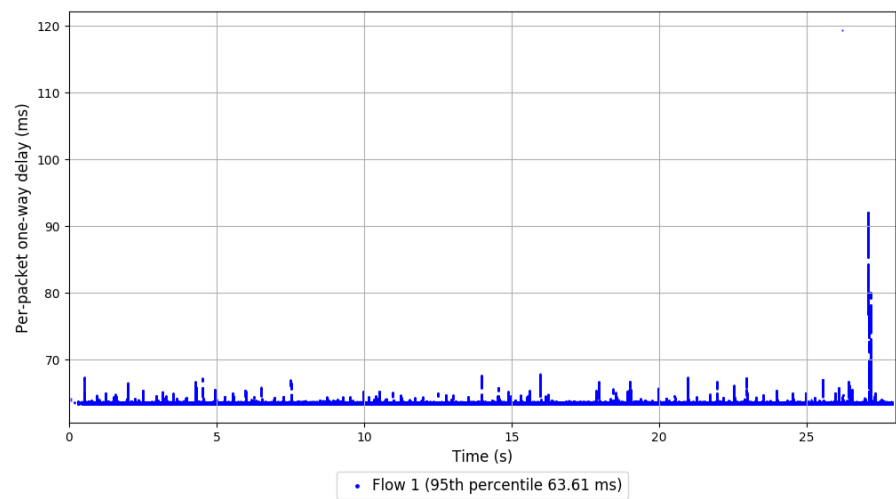
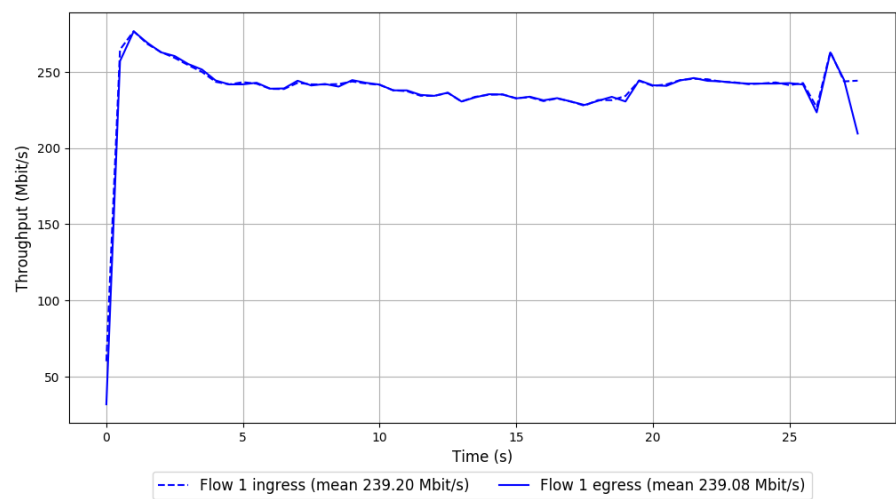


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-10-11 06:02:10
End at: 2017-10-11 06:02:40

# Below is generated by plot.py at 2017-10-11 08:29:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.08 Mbit/s
95th percentile per-packet one-way delay: 63.608 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 239.08 Mbit/s
95th percentile per-packet one-way delay: 63.608 ms
Loss rate: 0.51%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-10-11 04:22:54

End at: 2017-10-11 04:23:24

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 64.590 ms

Loss rate: 0.42%

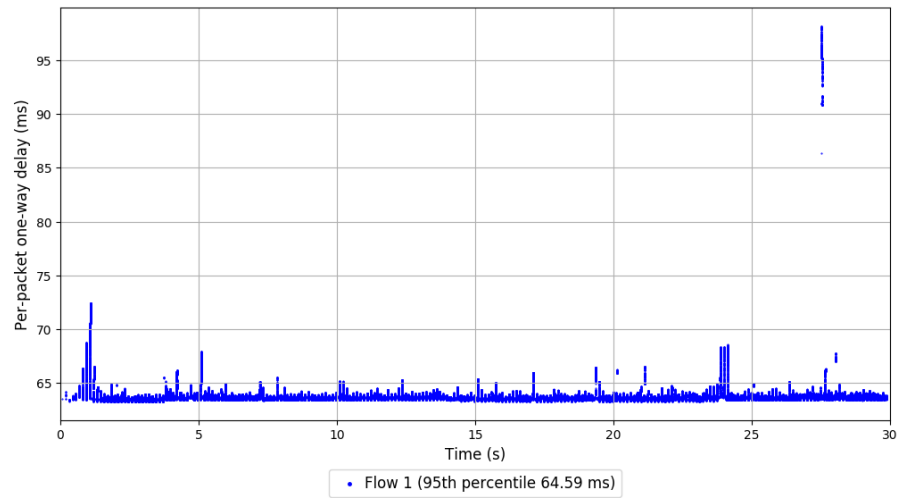
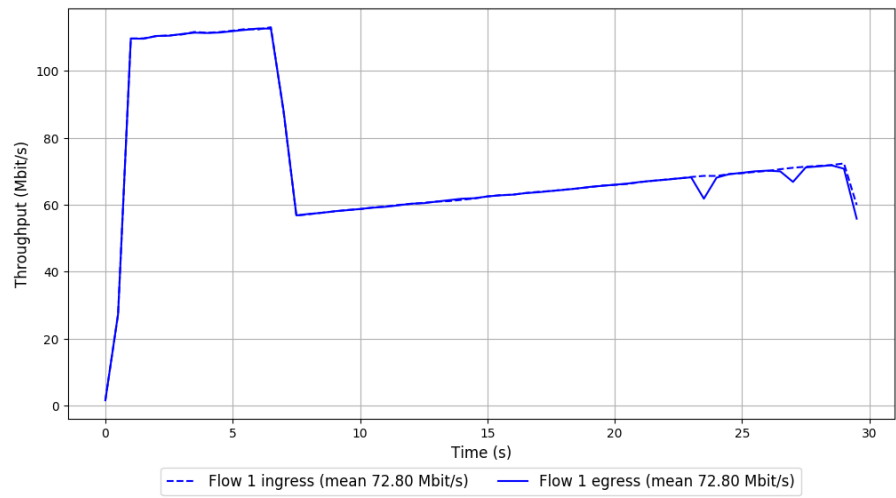
-- Flow 1:

Average throughput: 72.80 Mbit/s

95th percentile per-packet one-way delay: 64.590 ms

Loss rate: 0.42%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-10-11 04:33:41

End at: 2017-10-11 04:34:11

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 64.490 ms

Loss rate: 0.44%

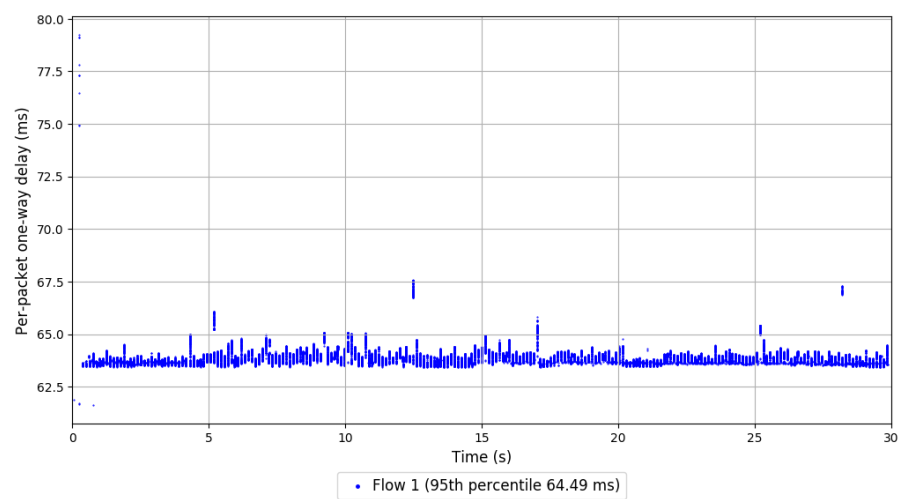
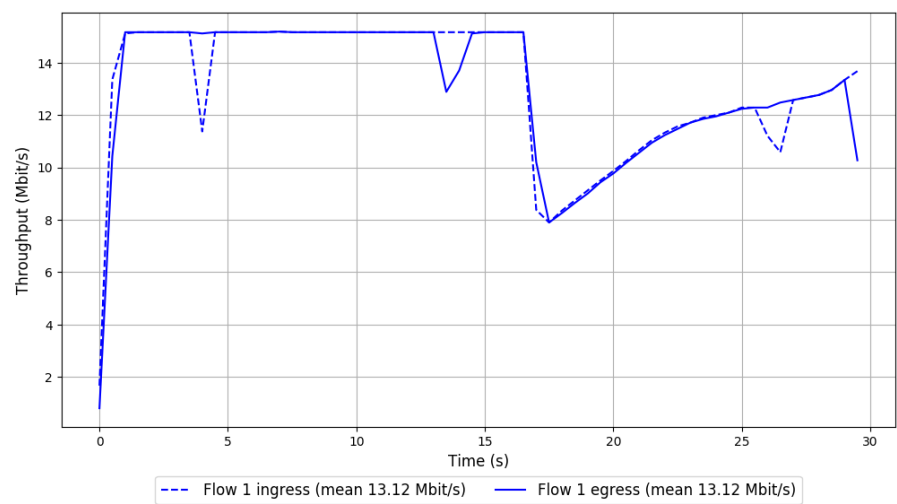
-- Flow 1:

Average throughput: 13.12 Mbit/s

95th percentile per-packet one-way delay: 64.490 ms

Loss rate: 0.44%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-10-11 04:44:13

End at: 2017-10-11 04:44:44

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.80 Mbit/s

95th percentile per-packet one-way delay: 64.580 ms

Loss rate: 0.44%

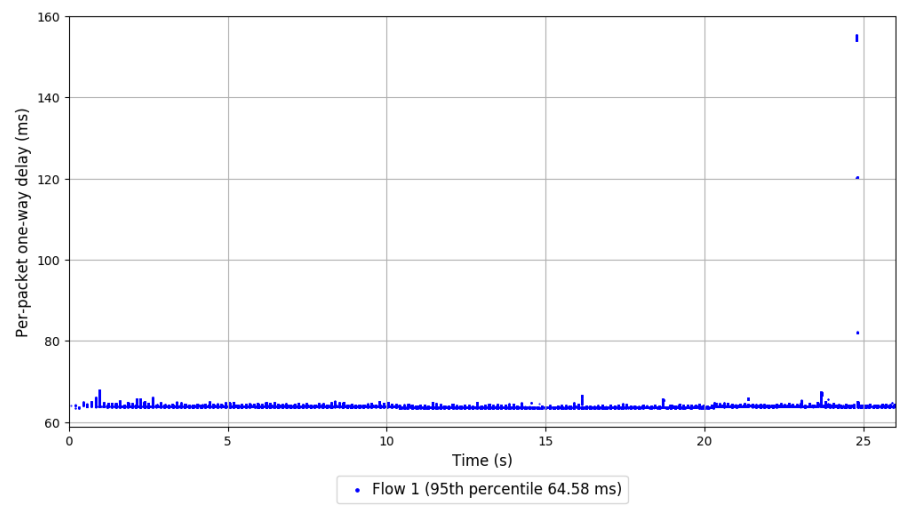
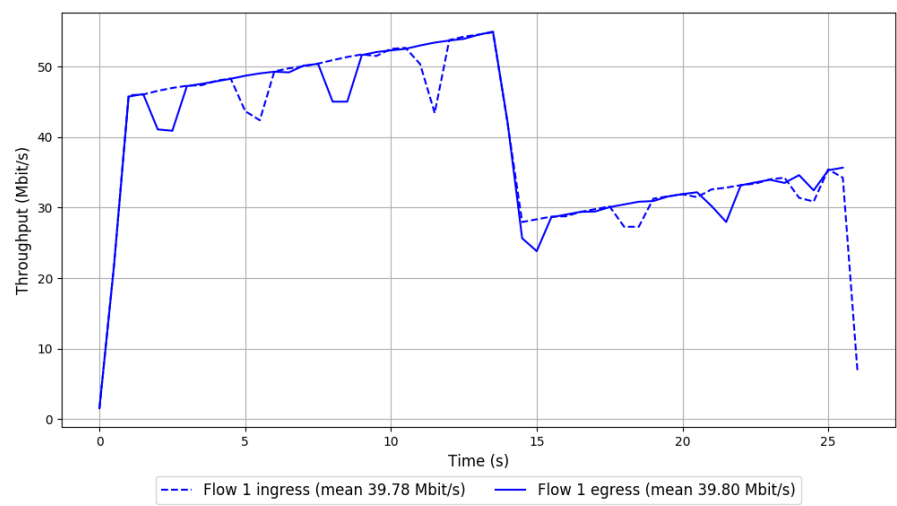
-- Flow 1:

Average throughput: 39.80 Mbit/s

95th percentile per-packet one-way delay: 64.580 ms

Loss rate: 0.44%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-10-11 04:54:57

End at: 2017-10-11 04:55:27

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 64.038 ms

Loss rate: 0.48%

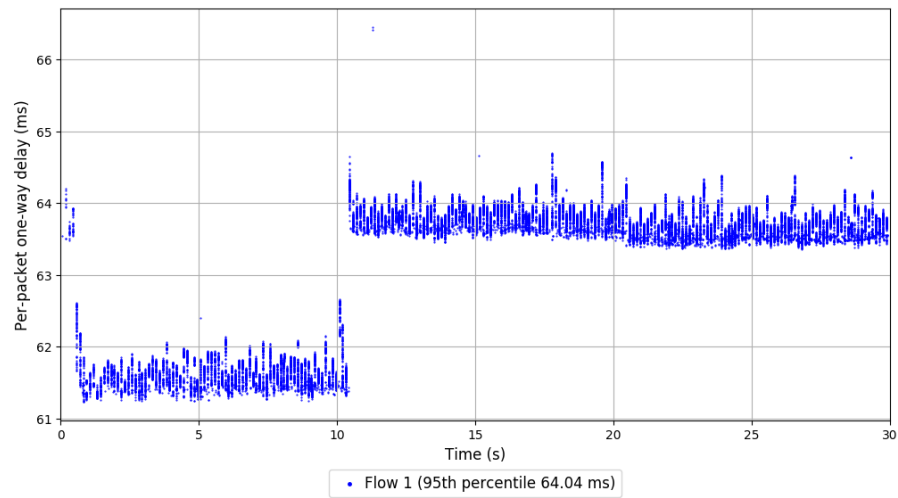
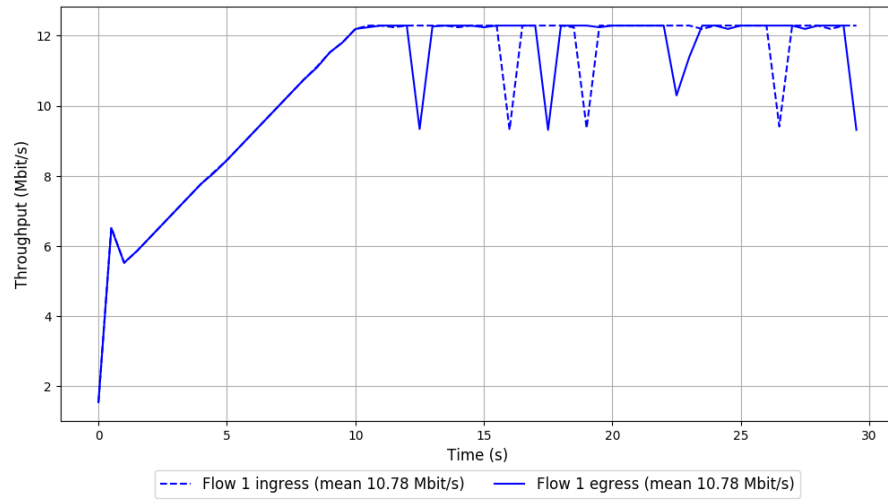
-- Flow 1:

Average throughput: 10.78 Mbit/s

95th percentile per-packet one-way delay: 64.038 ms

Loss rate: 0.48%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-10-11 05:05:35

End at: 2017-10-11 05:06:05

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.20 Mbit/s

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

Loss rate: 0.44%

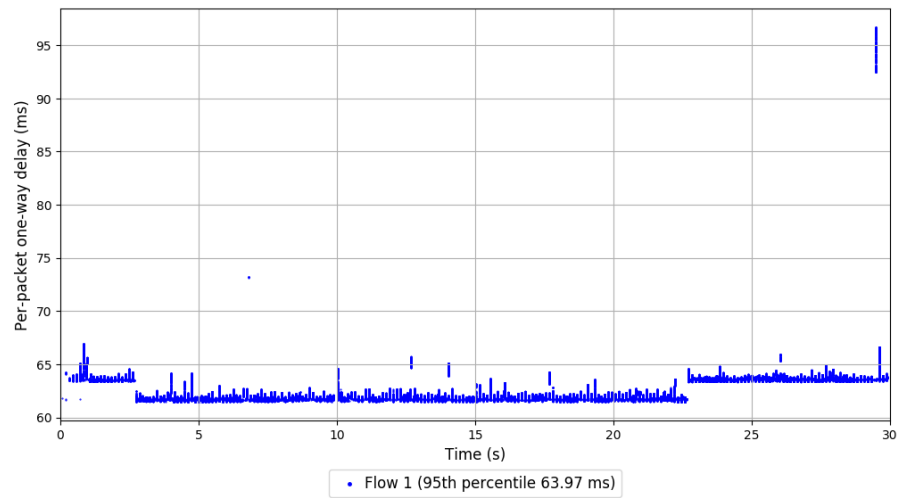
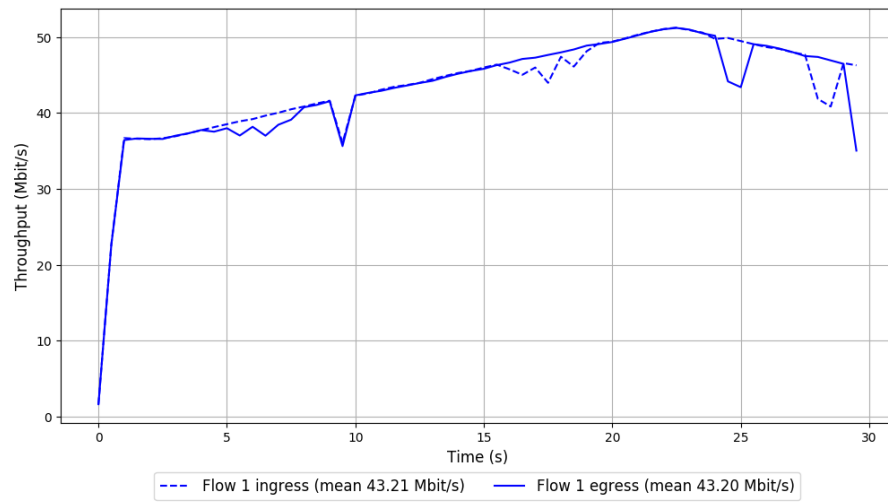
-- Flow 1:

Average throughput: 43.20 Mbit/s

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

Loss rate: 0.44%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-10-11 05:16:20

End at: 2017-10-11 05:16:50

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.16 Mbit/s

95th percentile per-packet one-way delay: 64.035 ms

Loss rate: 0.53%

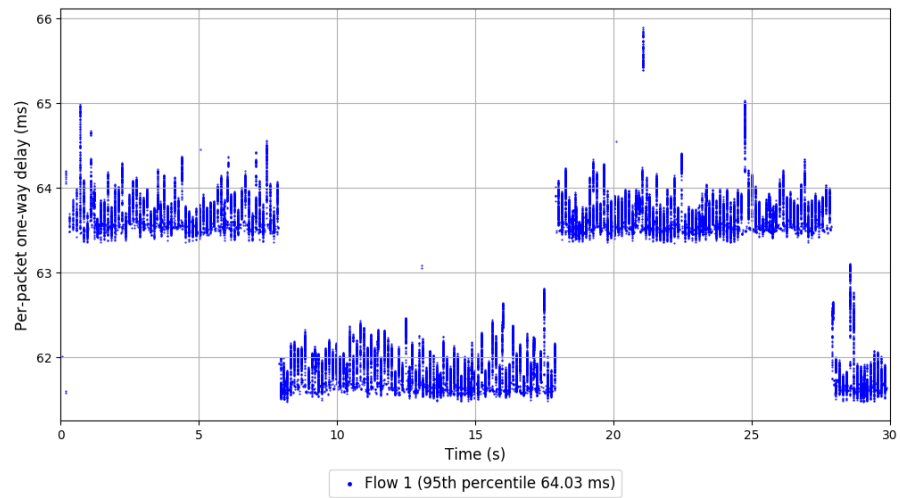
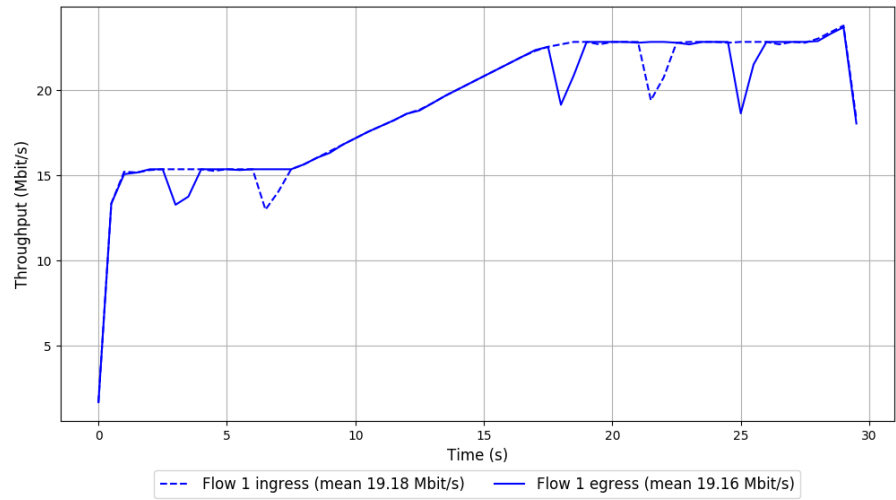
-- Flow 1:

Average throughput: 19.16 Mbit/s

95th percentile per-packet one-way delay: 64.035 ms

Loss rate: 0.53%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-10-11 05:26:54

End at: 2017-10-11 05:27:24

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 64.724 ms

Loss rate: 0.48%

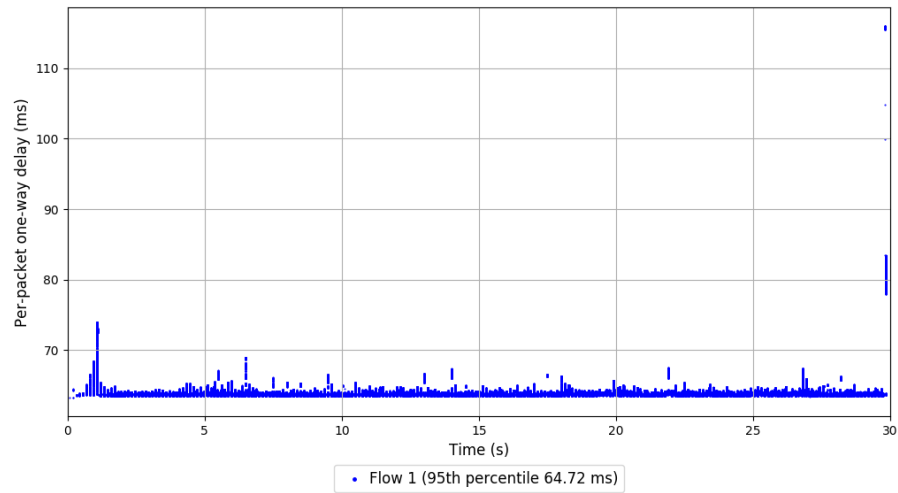
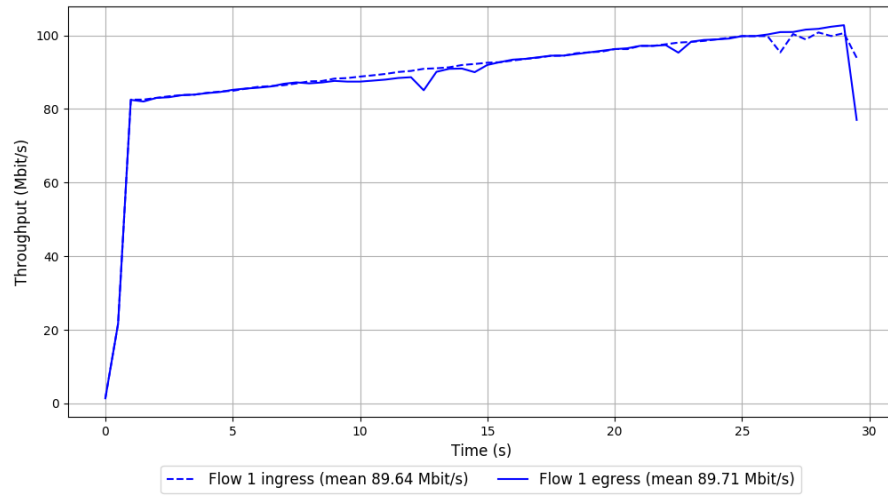
-- Flow 1:

Average throughput: 89.71 Mbit/s

95th percentile per-packet one-way delay: 64.724 ms

Loss rate: 0.48%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-10-11 05:37:33

End at: 2017-10-11 05:38:03

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.69 Mbit/s

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

Loss rate: 0.43%

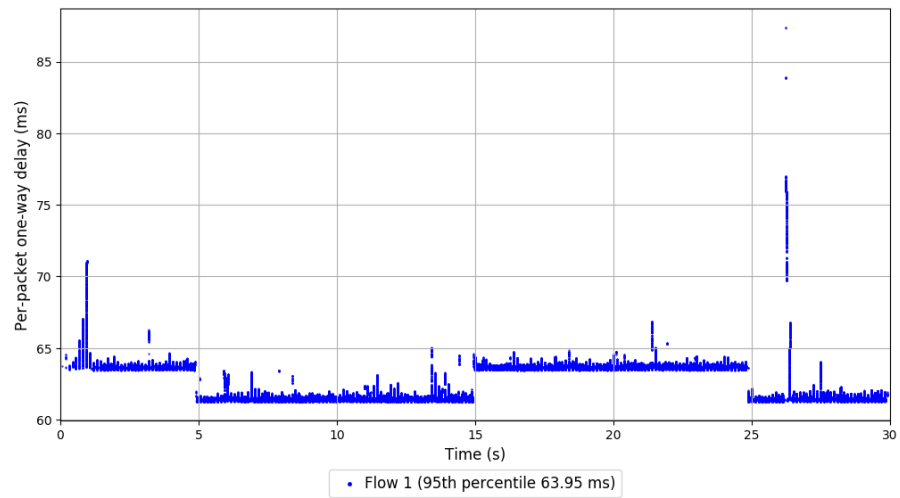
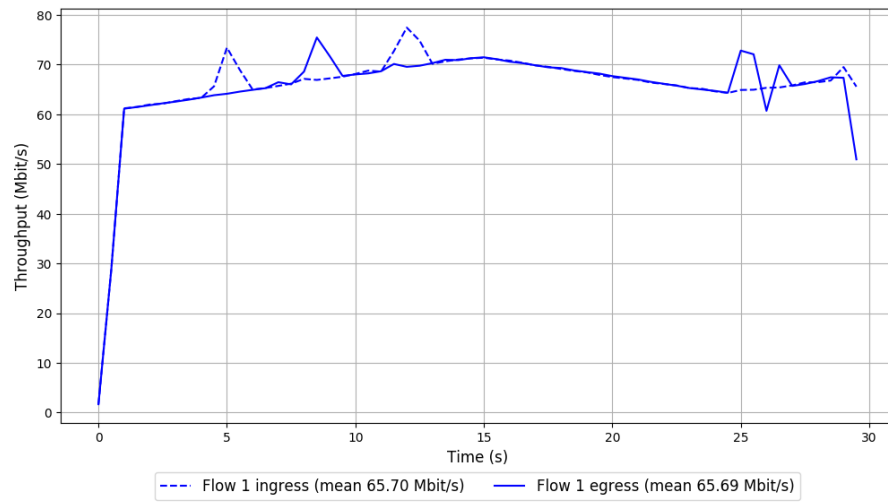
-- Flow 1:

Average throughput: 65.69 Mbit/s

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

Loss rate: 0.43%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-10-11 05:48:11

End at: 2017-10-11 05:48:41

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.21 Mbit/s

95th percentile per-packet one-way delay: 64.241 ms

Loss rate: 0.56%

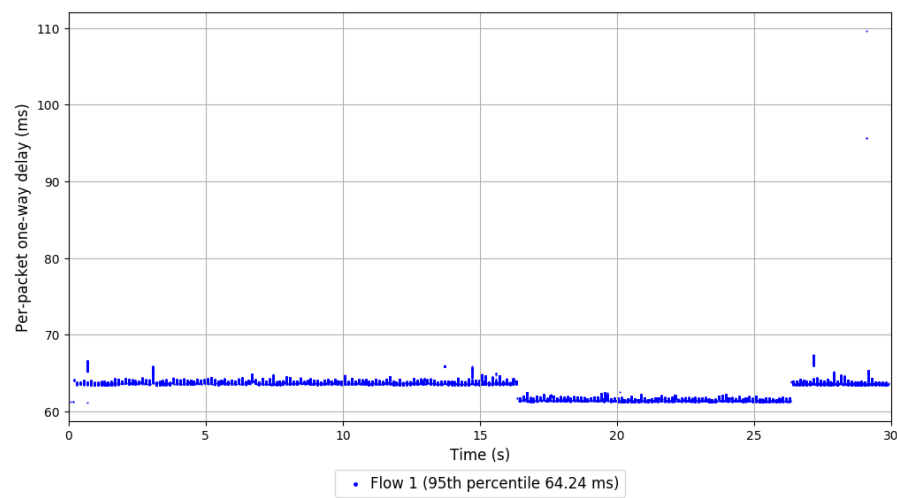
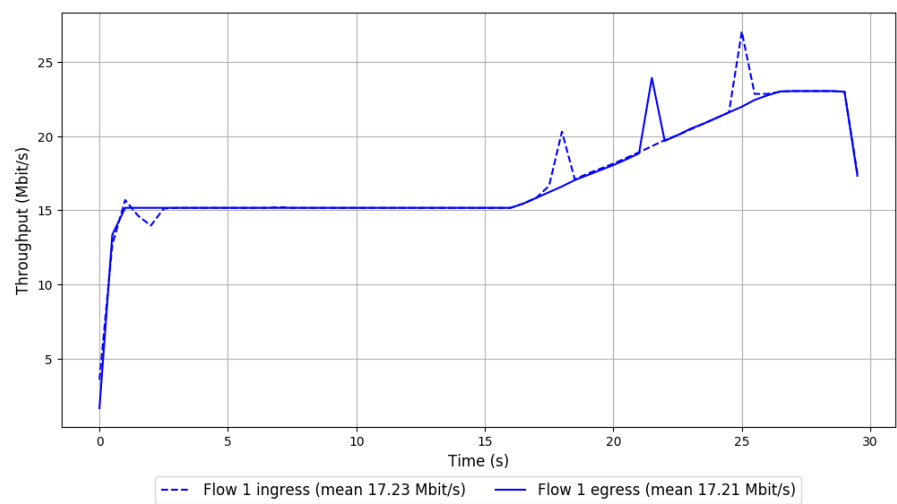
-- Flow 1:

Average throughput: 17.21 Mbit/s

95th percentile per-packet one-way delay: 64.241 ms

Loss rate: 0.56%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-10-11 05:58:24

End at: 2017-10-11 05:58:54

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.45%

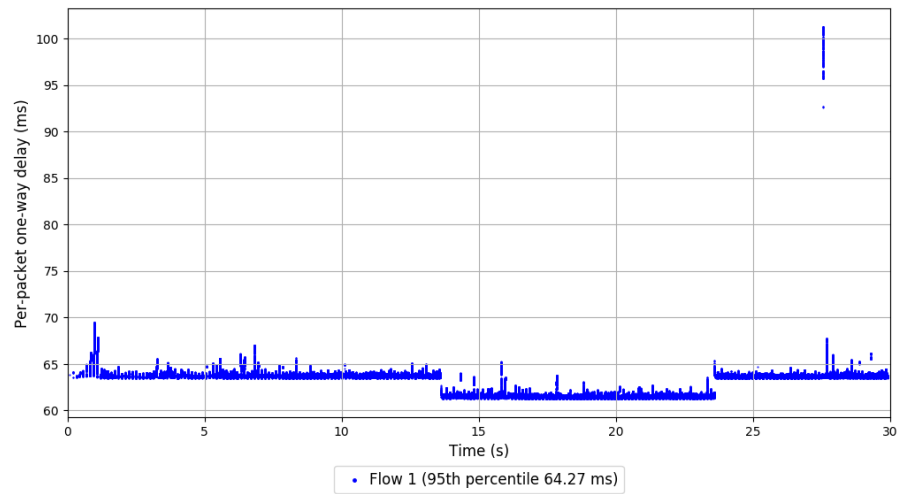
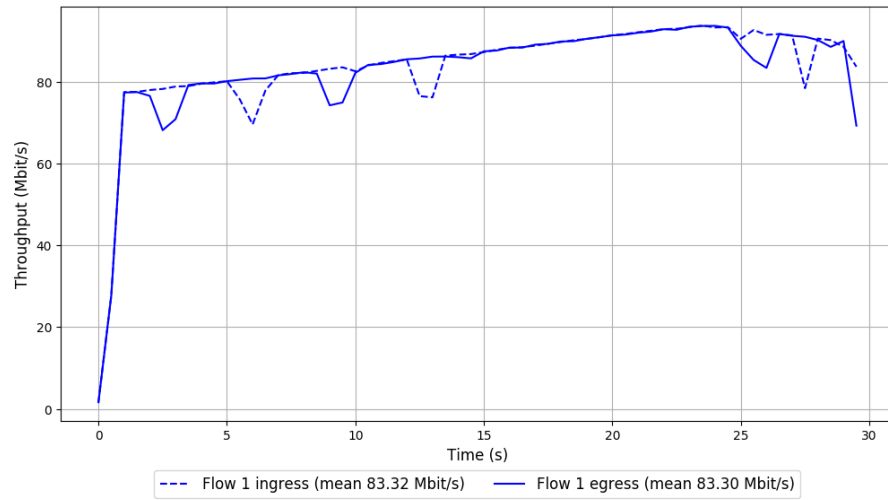
-- Flow 1:

Average throughput: 83.30 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.45%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-10-11 04:20:39

End at: 2017-10-11 04:21:09

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.84 Mbit/s

95th percentile per-packet one-way delay: 155.065 ms

Loss rate: 3.09%

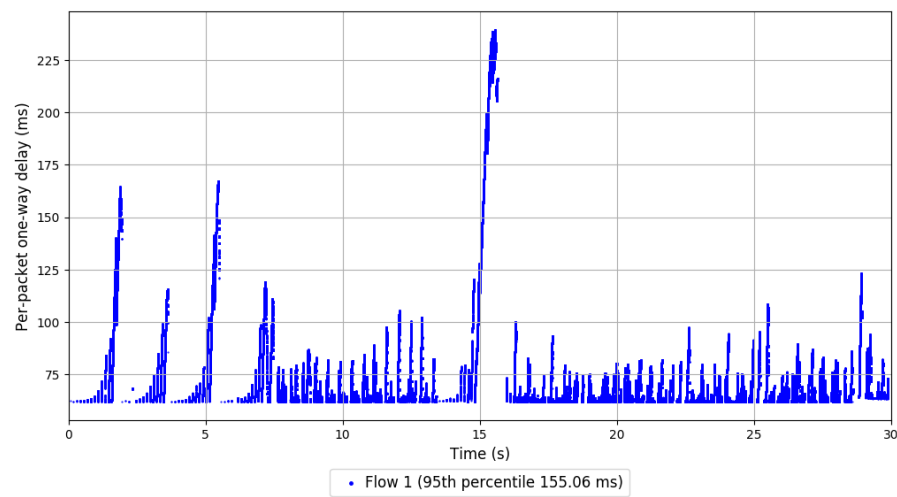
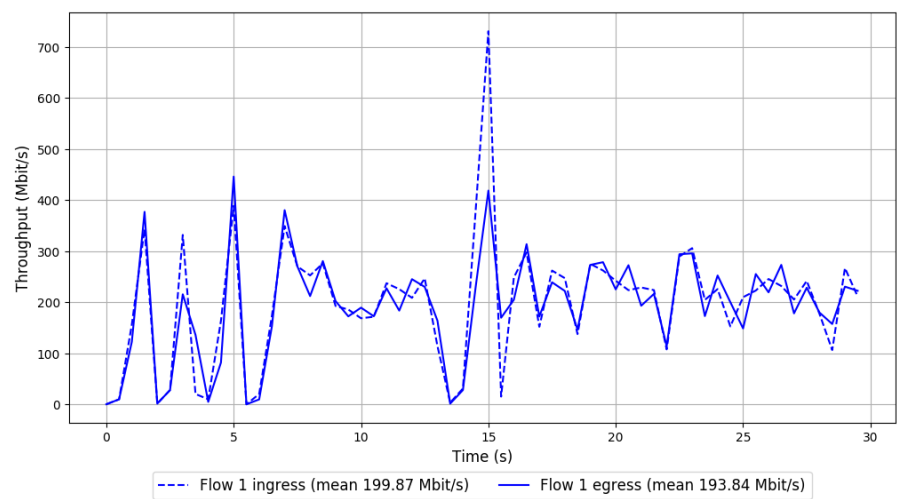
-- Flow 1:

Average throughput: 193.84 Mbit/s

95th percentile per-packet one-way delay: 155.065 ms

Loss rate: 3.09%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-10-11 04:31:22

End at: 2017-10-11 04:31:52

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.79 Mbit/s

95th percentile per-packet one-way delay: 108.721 ms

Loss rate: 0.54%

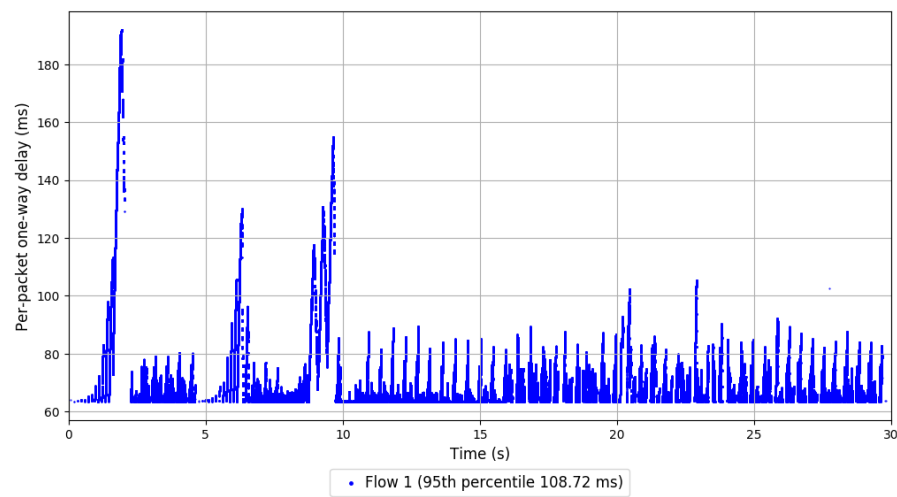
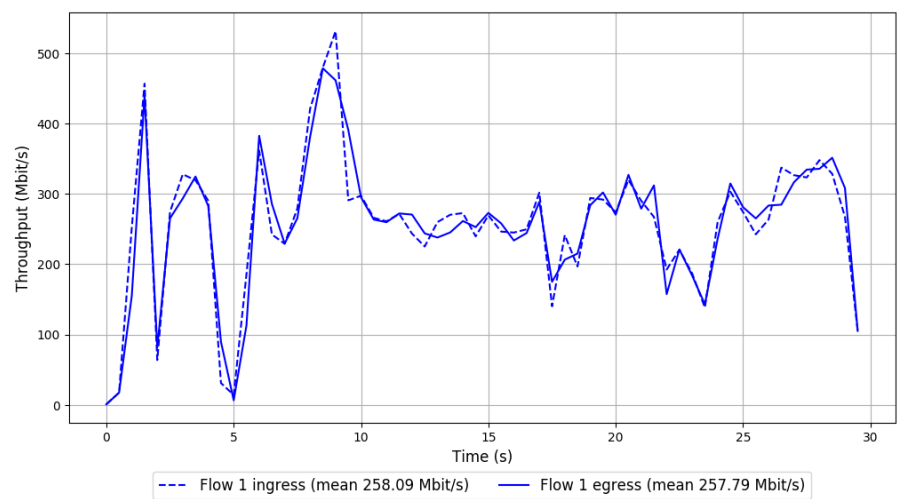
-- Flow 1:

Average throughput: 257.79 Mbit/s

95th percentile per-packet one-way delay: 108.721 ms

Loss rate: 0.54%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-10-11 04:41:56

End at: 2017-10-11 04:42:26

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.30 Mbit/s

95th percentile per-packet one-way delay: 90.114 ms

Loss rate: 0.01%

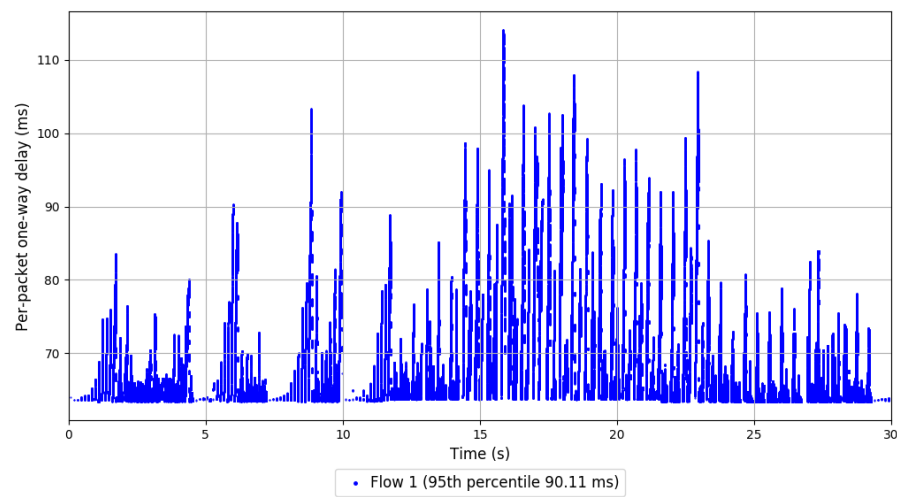
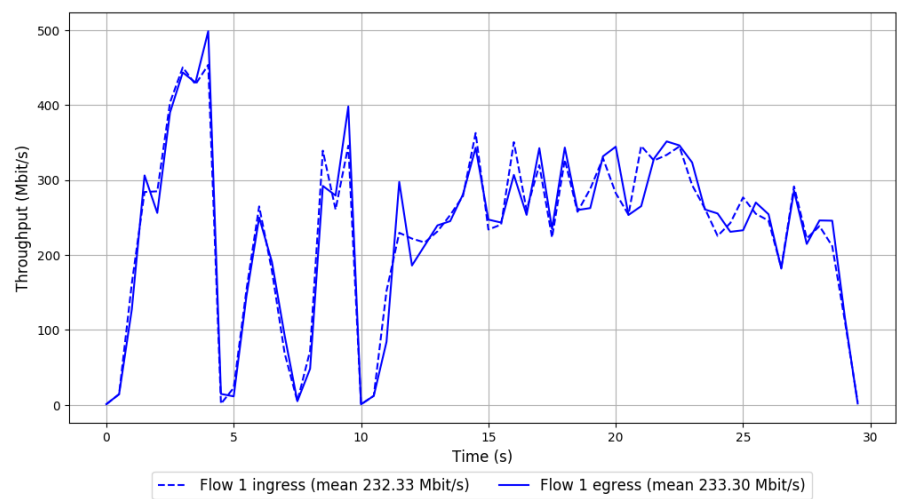
-- Flow 1:

Average throughput: 233.30 Mbit/s

95th percentile per-packet one-way delay: 90.114 ms

Loss rate: 0.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-10-11 04:52:38

End at: 2017-10-11 04:53:08

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.68 Mbit/s

95th percentile per-packet one-way delay: 109.207 ms

Loss rate: 2.79%

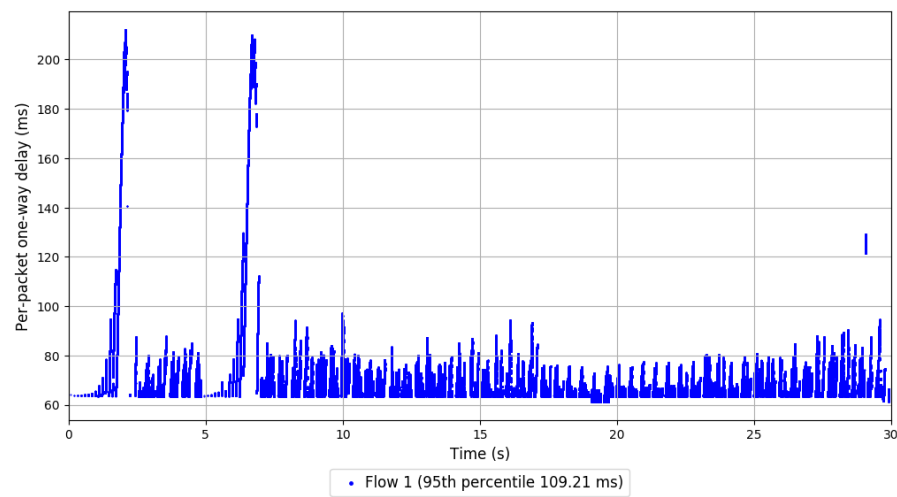
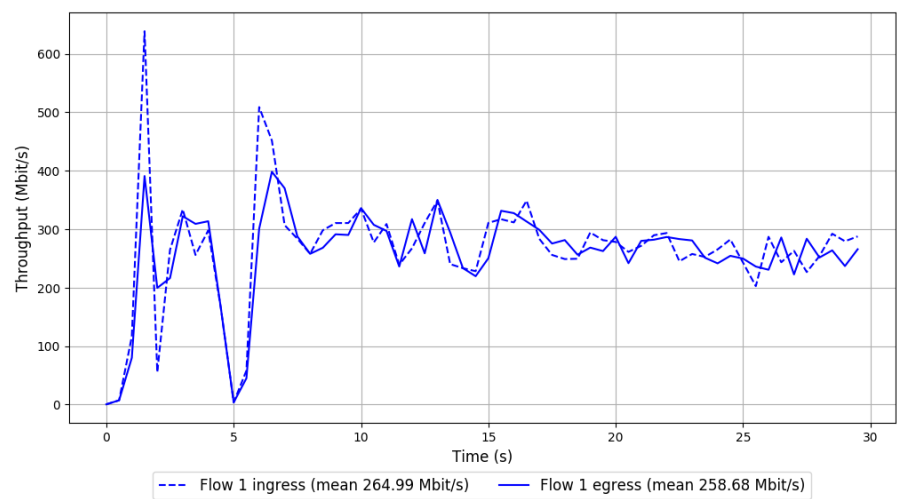
-- Flow 1:

Average throughput: 258.68 Mbit/s

95th percentile per-packet one-way delay: 109.207 ms

Loss rate: 2.79%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-10-11 05:03:16

End at: 2017-10-11 05:03:46

Below is generated by plot.py at 2017-10-11 08:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.09 Mbit/s

95th percentile per-packet one-way delay: 100.934 ms

Loss rate: 0.39%

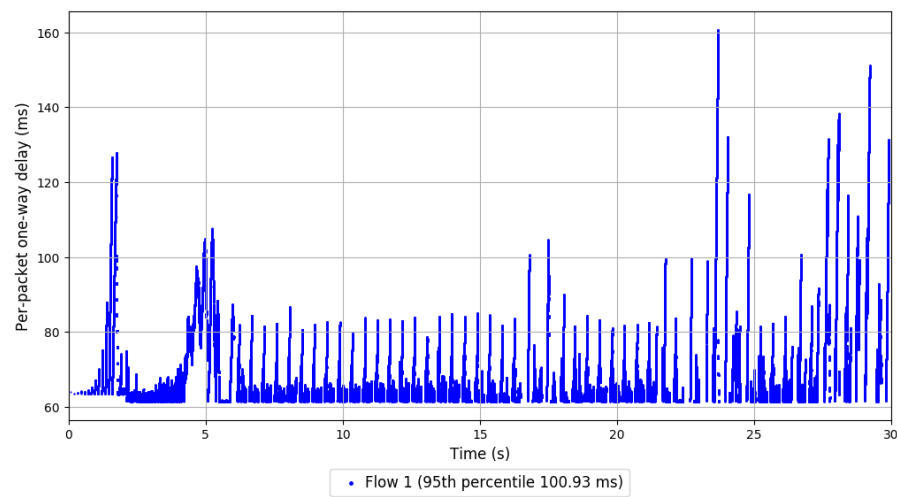
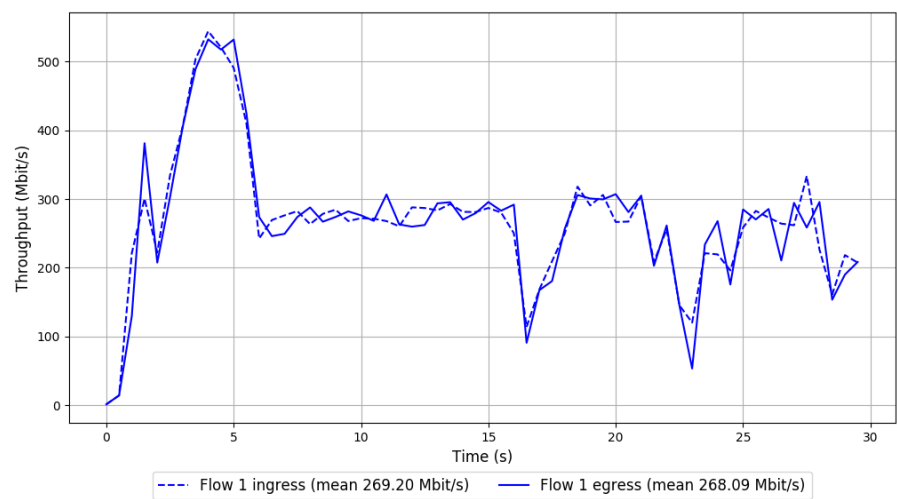
-- Flow 1:

Average throughput: 268.09 Mbit/s

95th percentile per-packet one-way delay: 100.934 ms

Loss rate: 0.39%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-10-11 05:13:58

End at: 2017-10-11 05:14:28

Below is generated by plot.py at 2017-10-11 08:30:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.55 Mbit/s

95th percentile per-packet one-way delay: 93.960 ms

Loss rate: 0.68%

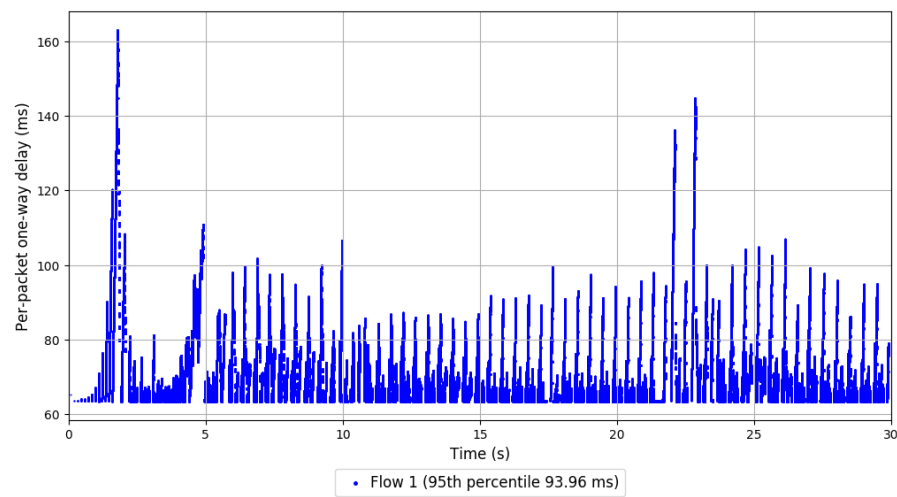
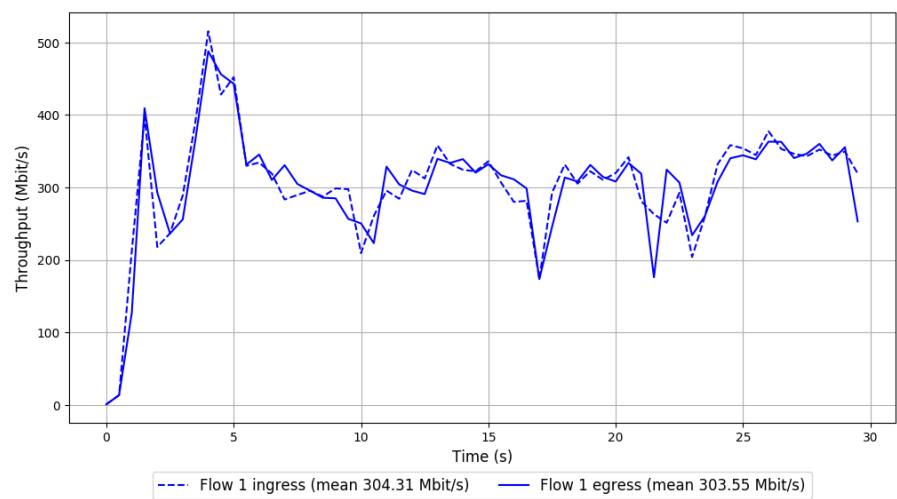
-- Flow 1:

Average throughput: 303.55 Mbit/s

95th percentile per-packet one-way delay: 93.960 ms

Loss rate: 0.68%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-10-11 05:24:37

End at: 2017-10-11 05:25:07

Below is generated by plot.py at 2017-10-11 08:30:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.63 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 2.49%

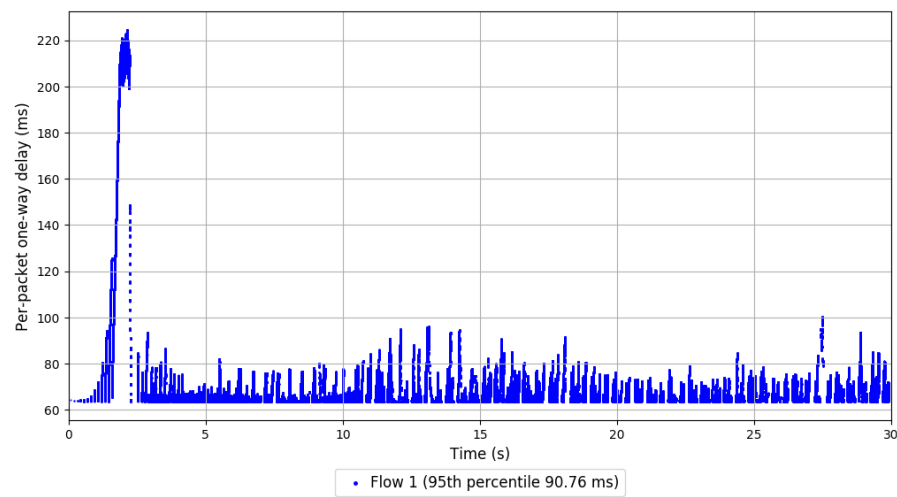
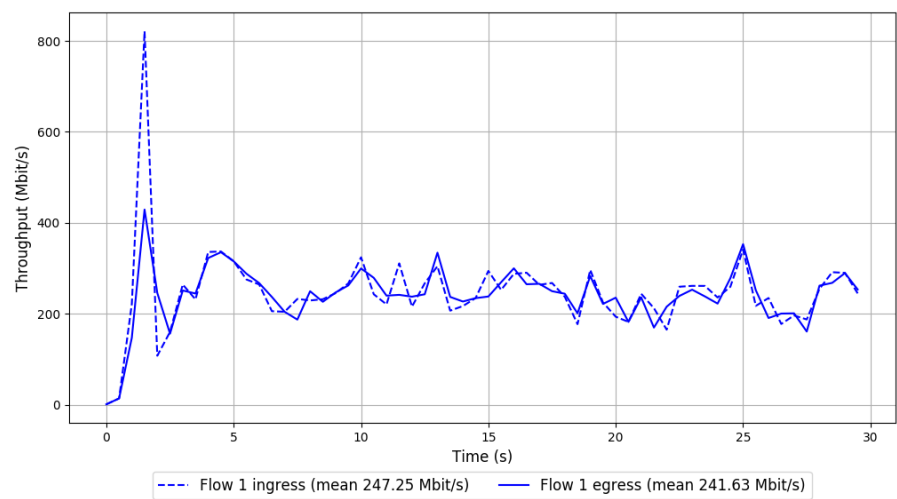
-- Flow 1:

Average throughput: 241.63 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 2.49%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-10-11 05:35:15

End at: 2017-10-11 05:35:45

Below is generated by plot.py at 2017-10-11 08:31:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.89 Mbit/s

95th percentile per-packet one-way delay: 86.811 ms

Loss rate: 2.49%

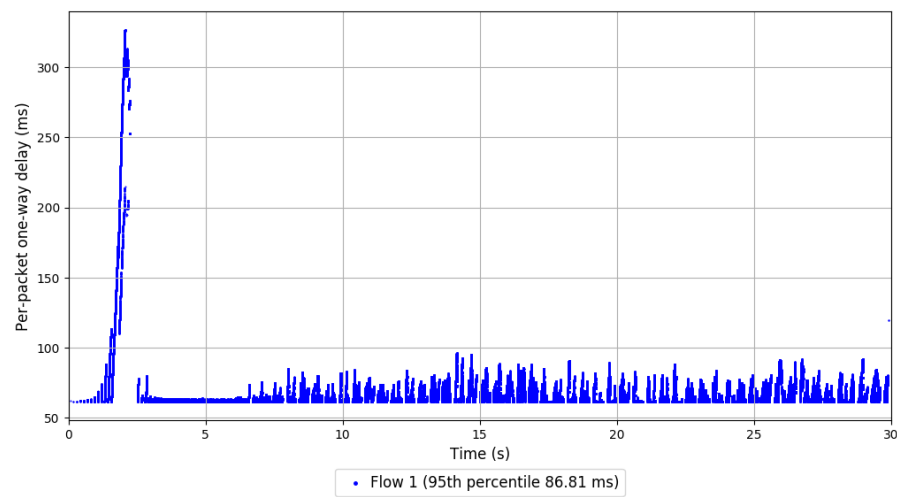
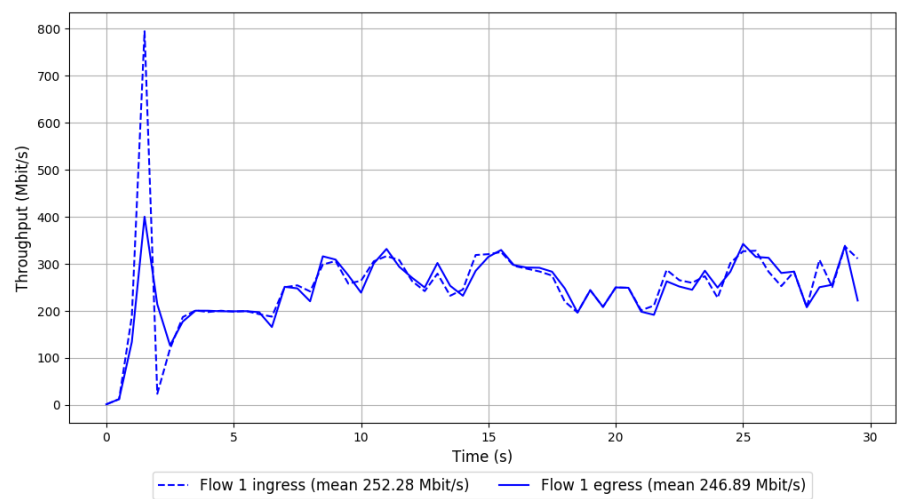
-- Flow 1:

Average throughput: 246.89 Mbit/s

95th percentile per-packet one-way delay: 86.811 ms

Loss rate: 2.49%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-10-11 05:45:50

End at: 2017-10-11 05:46:20

Below is generated by plot.py at 2017-10-11 08:33:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.33 Mbit/s

95th percentile per-packet one-way delay: 143.882 ms

Loss rate: 1.49%

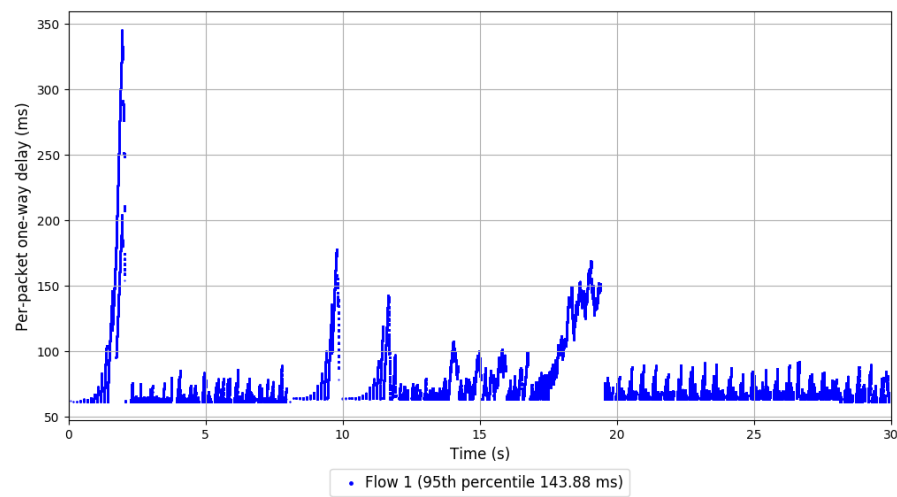
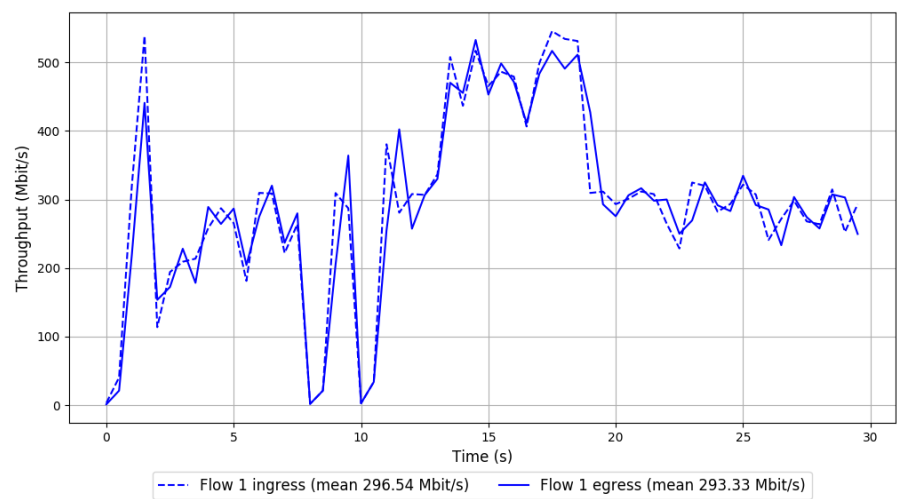
-- Flow 1:

Average throughput: 293.33 Mbit/s

95th percentile per-packet one-way delay: 143.882 ms

Loss rate: 1.49%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-10-11 05:56:08

End at: 2017-10-11 05:56:38

Below is generated by plot.py at 2017-10-11 08:33:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.91 Mbit/s

95th percentile per-packet one-way delay: 96.735 ms

Loss rate: 2.53%

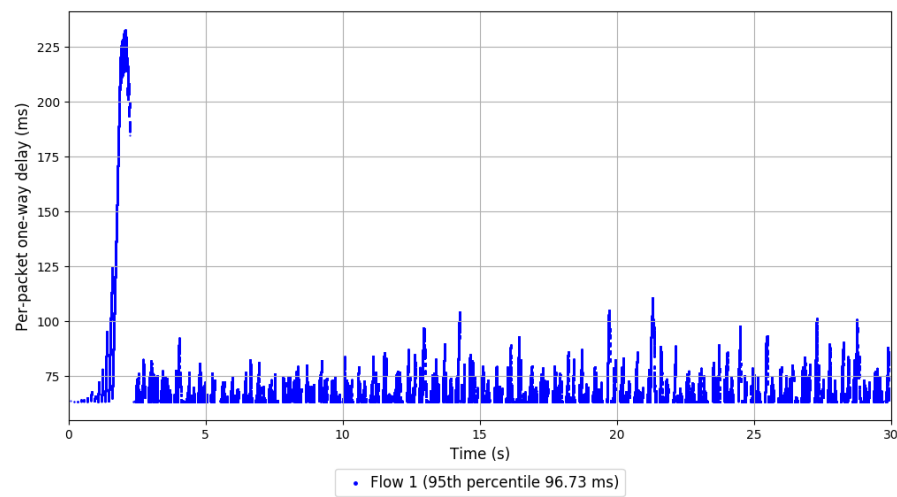
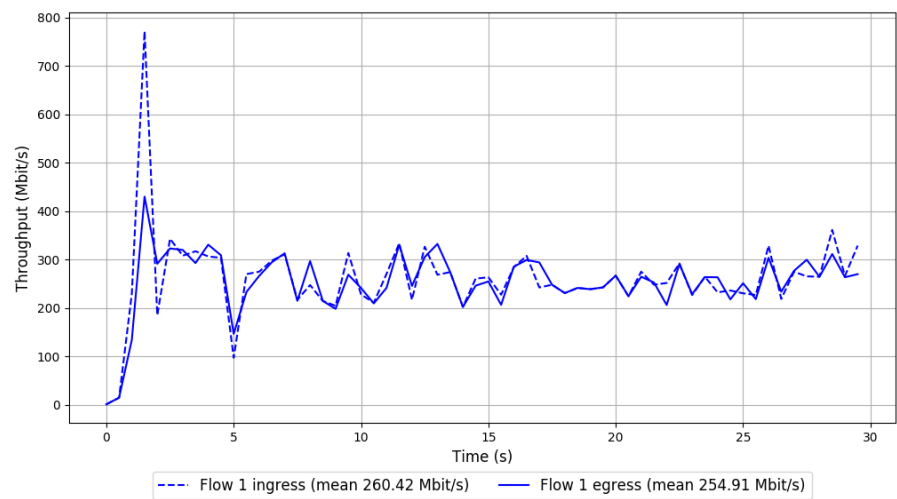
-- Flow 1:

Average throughput: 254.91 Mbit/s

95th percentile per-packet one-way delay: 96.735 ms

Loss rate: 2.53%

Run 10: Report of Verus — Data Link

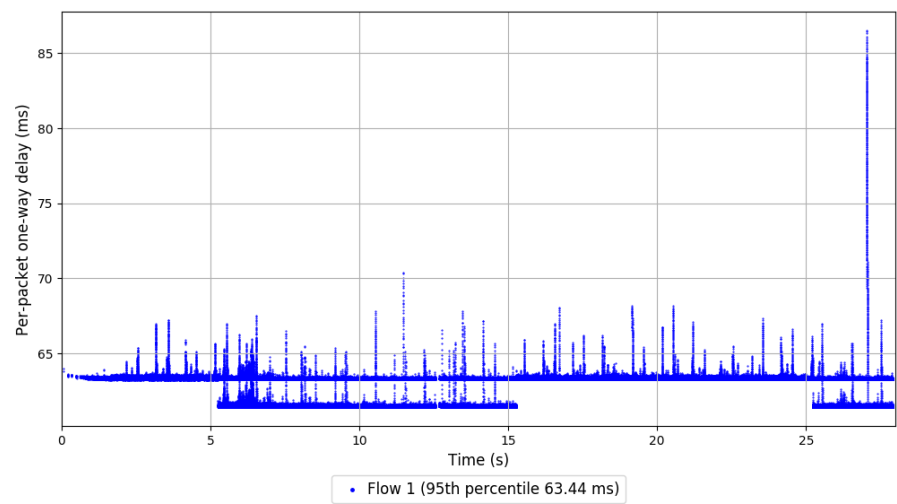
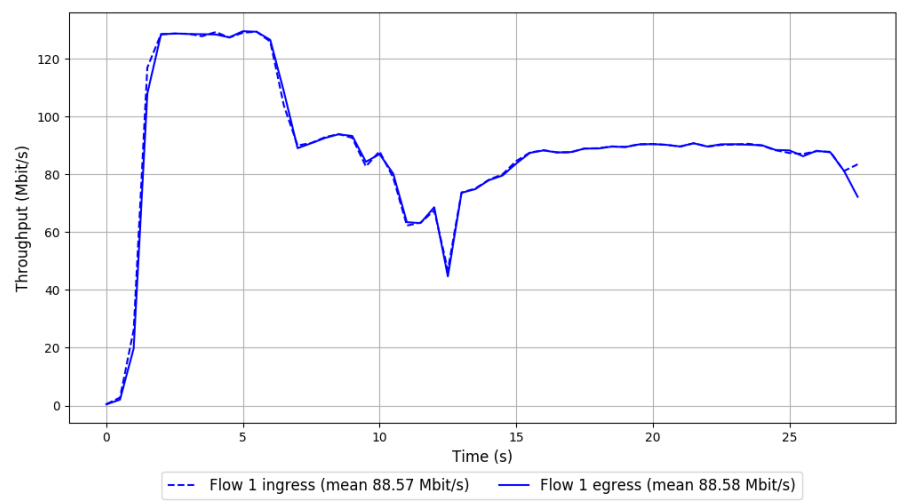


```
Run 1: Statistics of Copa

Start at: 2017-10-11 04:21:30
End at: 2017-10-11 04:22:01

# Below is generated by plot.py at 2017-10-11 08:33:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.58 Mbit/s
95th percentile per-packet one-way delay: 63.444 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 88.58 Mbit/s
95th percentile per-packet one-way delay: 63.444 ms
Loss rate: 0.45%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-10-11 04:32:18

End at: 2017-10-11 04:32:48

Below is generated by plot.py at 2017-10-11 08:33:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.25 Mbit/s

95th percentile per-packet one-way delay: 63.736 ms

Loss rate: 0.34%

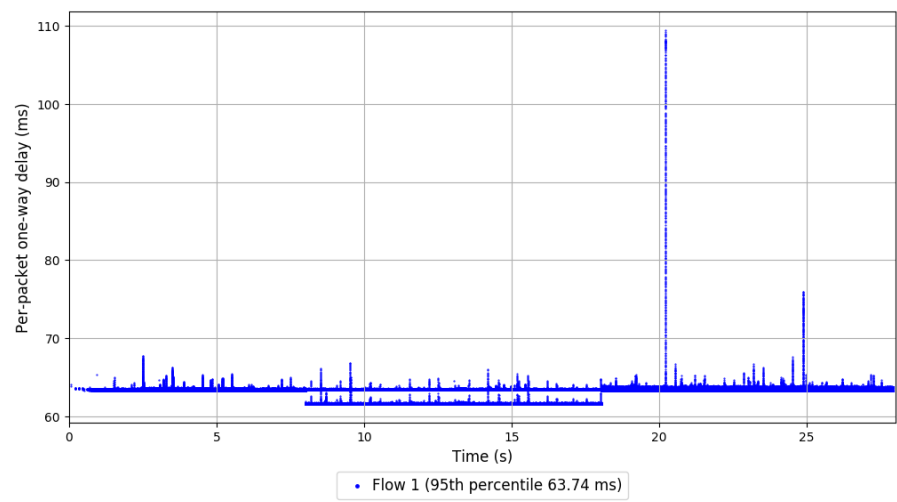
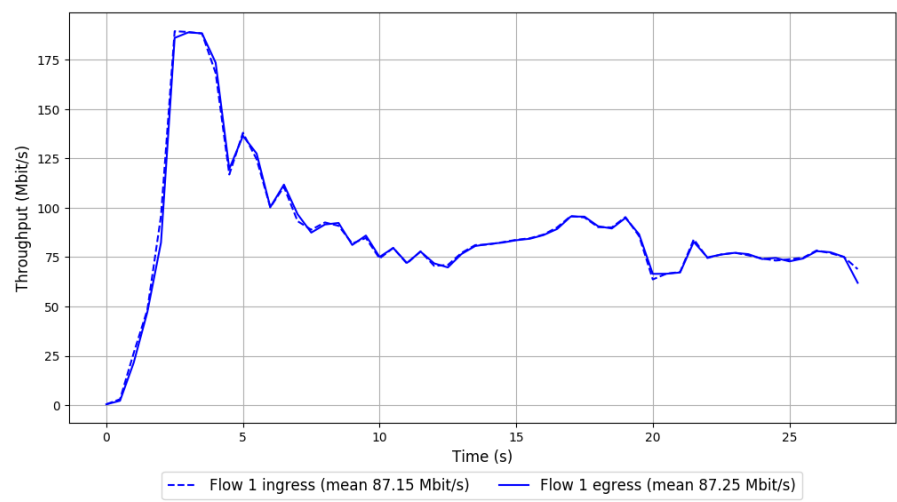
-- Flow 1:

Average throughput: 87.25 Mbit/s

95th percentile per-packet one-way delay: 63.736 ms

Loss rate: 0.34%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-10-11 04:42:50

End at: 2017-10-11 04:43:20

Below is generated by plot.py at 2017-10-11 08:33:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 0.44%

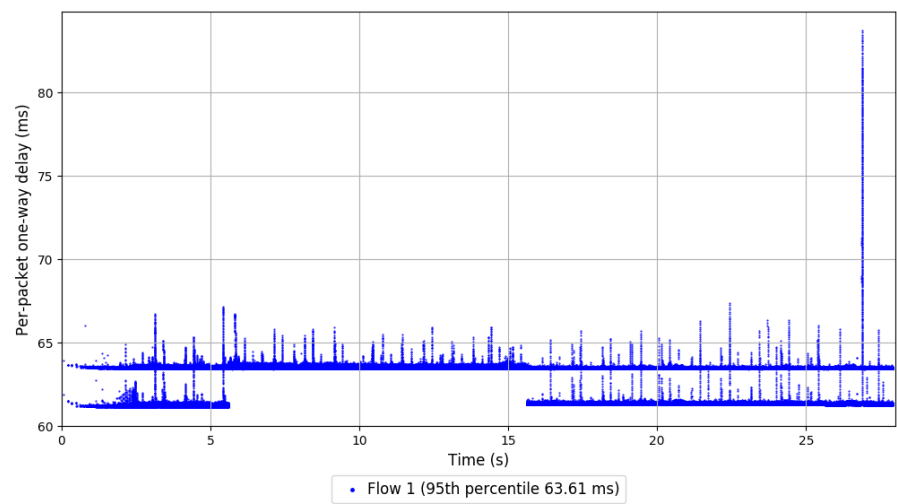
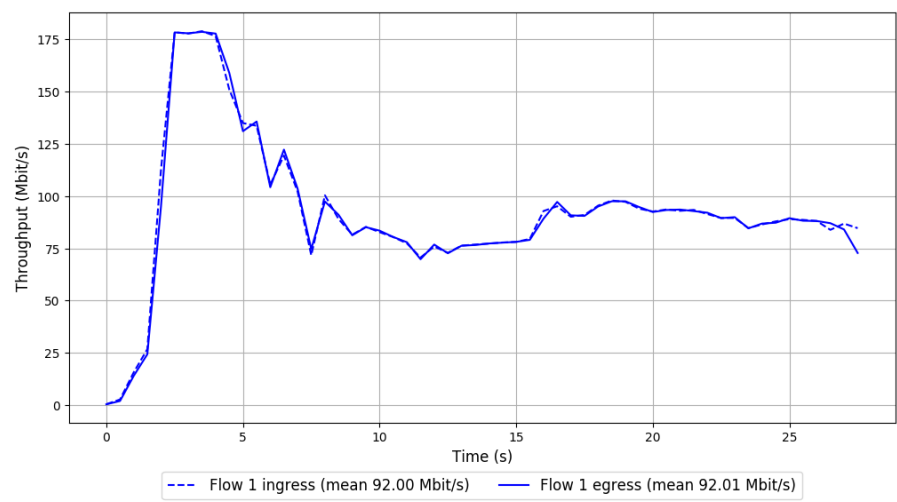
-- Flow 1:

Average throughput: 92.01 Mbit/s

95th percentile per-packet one-way delay: 63.608 ms

Loss rate: 0.44%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-10-11 04:53:34

End at: 2017-10-11 04:54:04

Below is generated by plot.py at 2017-10-11 08:33:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 63.522 ms

Loss rate: 0.43%

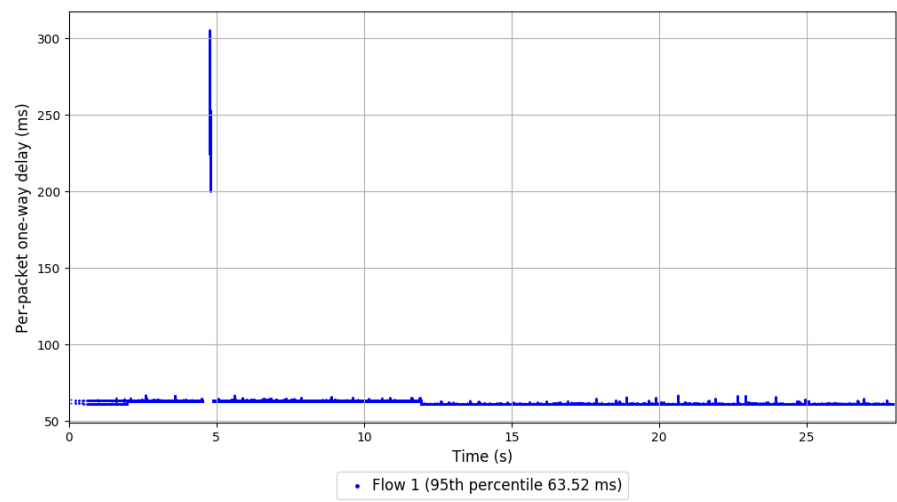
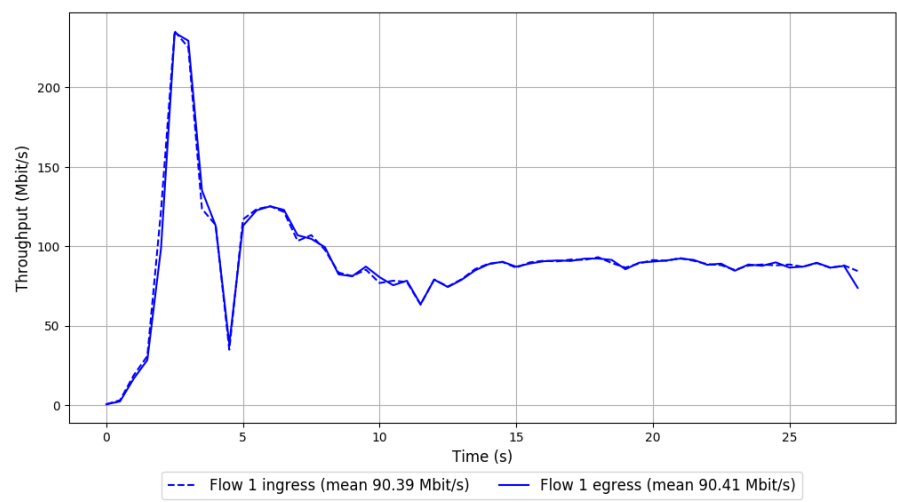
-- Flow 1:

Average throughput: 90.41 Mbit/s

95th percentile per-packet one-way delay: 63.522 ms

Loss rate: 0.43%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-10-11 05:04:12

End at: 2017-10-11 05:04:42

Below is generated by plot.py at 2017-10-11 08:33:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.43%

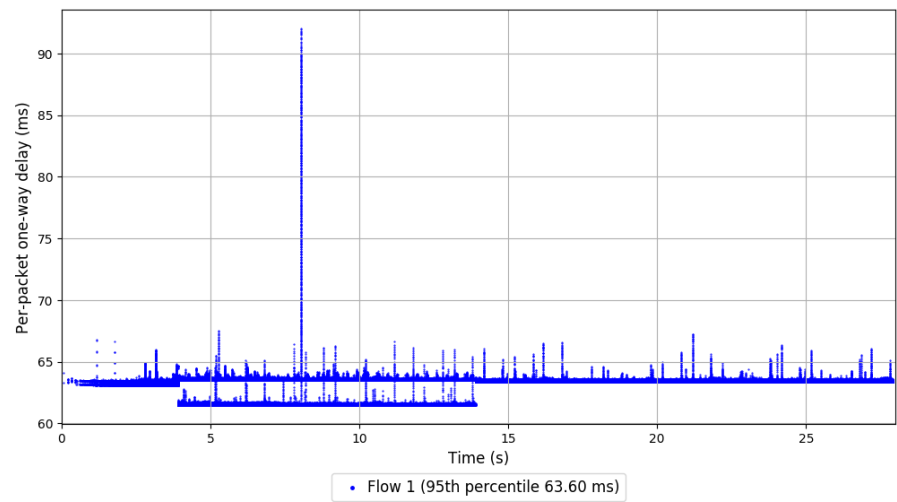
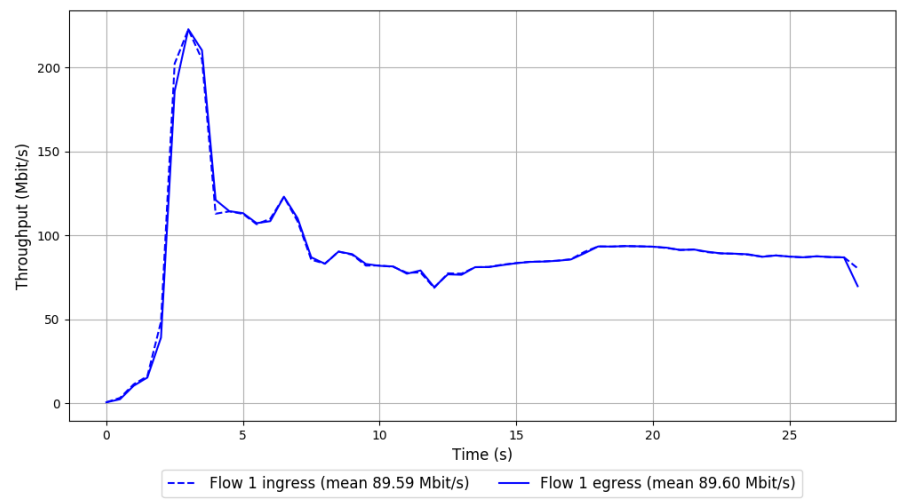
-- Flow 1:

Average throughput: 89.60 Mbit/s

95th percentile per-packet one-way delay: 63.599 ms

Loss rate: 0.43%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-10-11 05:14:57

End at: 2017-10-11 05:15:27

Below is generated by plot.py at 2017-10-11 08:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.35%

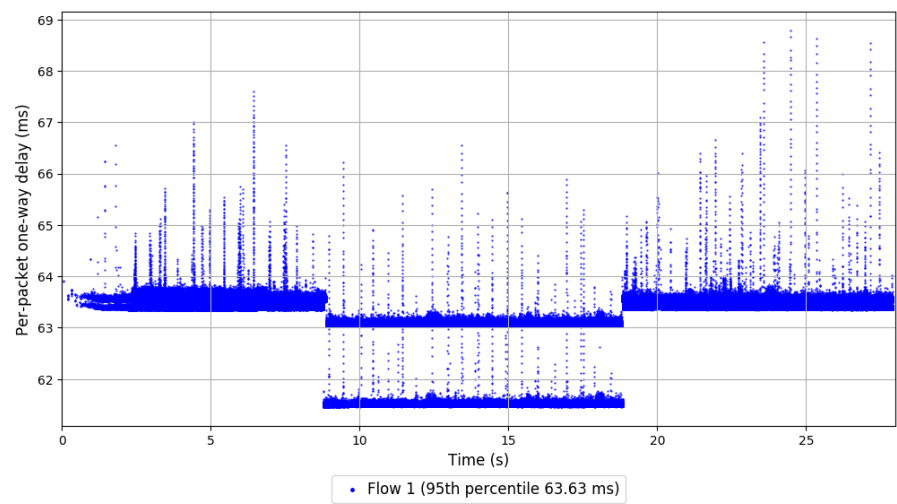
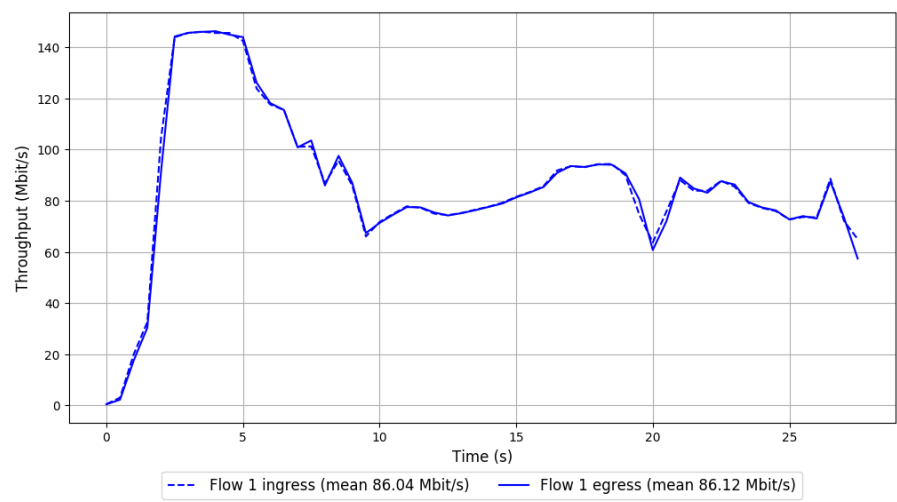
-- Flow 1:

Average throughput: 86.12 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 0.35%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-10-11 05:25:32

End at: 2017-10-11 05:26:02

Below is generated by plot.py at 2017-10-11 08:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.28 Mbit/s

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

Loss rate: 0.09%

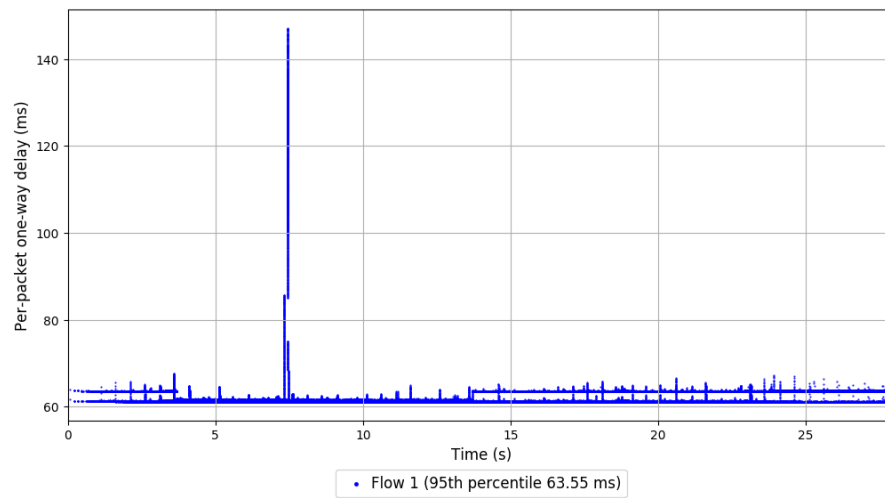
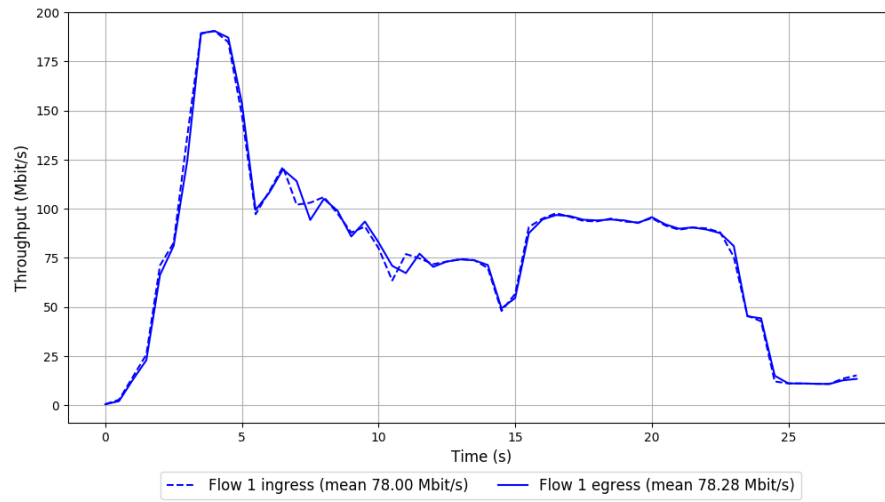
-- Flow 1:

Average throughput: 78.28 Mbit/s

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

Loss rate: 0.09%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-10-11 05:36:10

End at: 2017-10-11 05:36:40

Below is generated by plot.py at 2017-10-11 08:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.35%

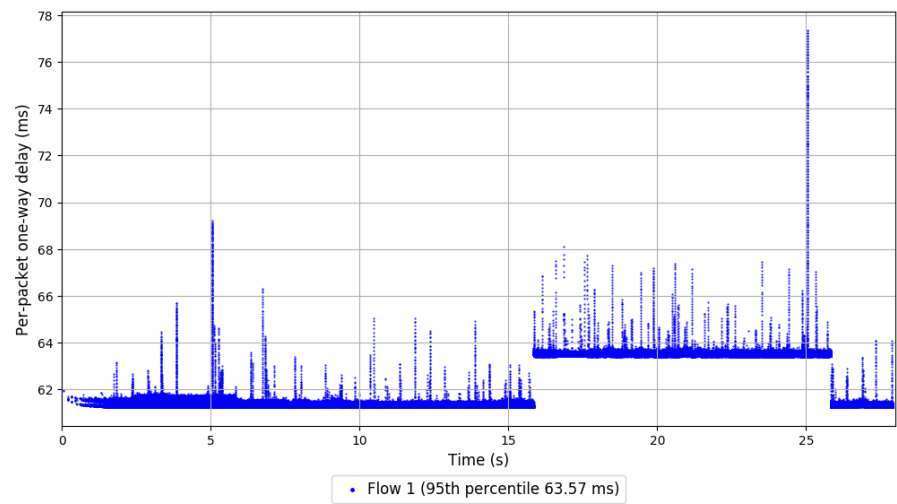
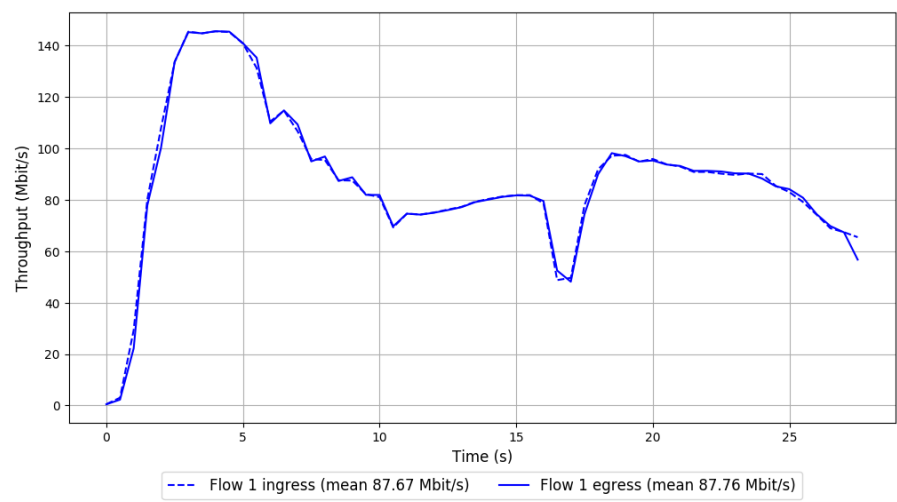
-- Flow 1:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 63.569 ms

Loss rate: 0.35%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-10-11 05:46:48

End at: 2017-10-11 05:47:18

Below is generated by plot.py at 2017-10-11 08:34:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.43%

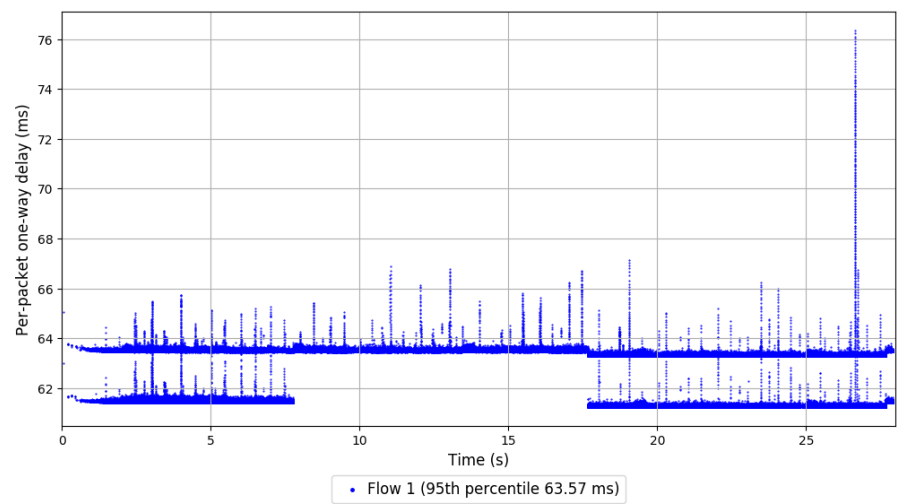
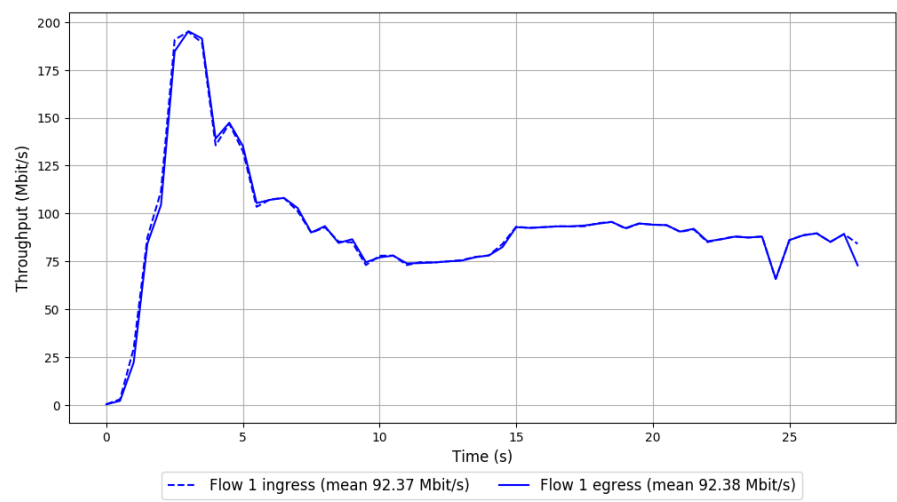
-- Flow 1:

Average throughput: 92.38 Mbit/s

95th percentile per-packet one-way delay: 63.568 ms

Loss rate: 0.43%

Run 9: Report of Copa — Data Link

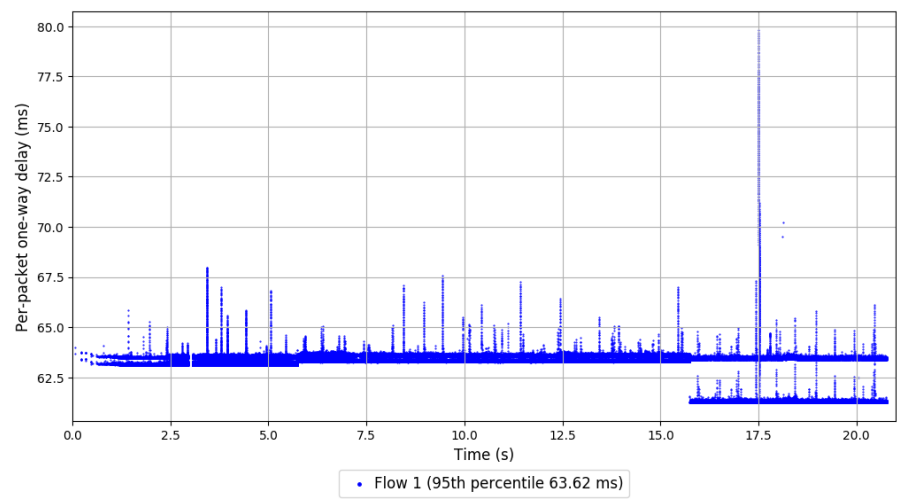
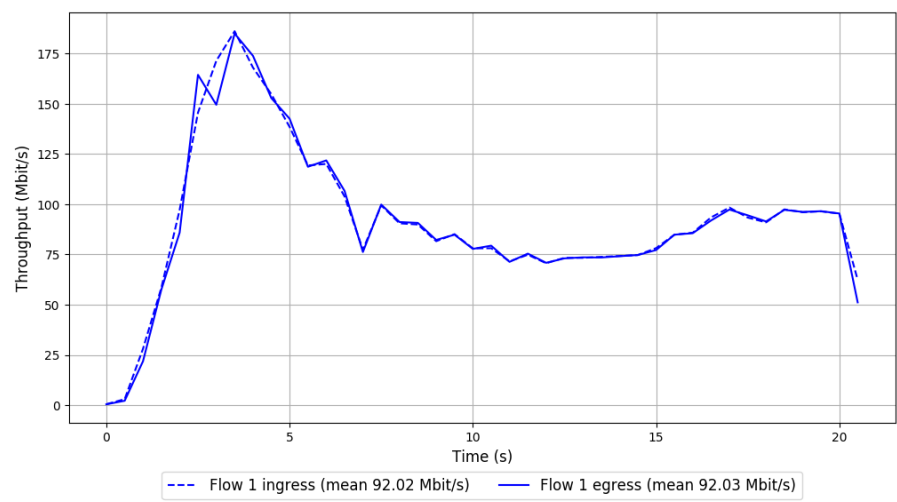


Run 10: Statistics of Copa

Start at: 2017-10-11 05:57:03

End at: 2017-10-11 05:57:33

Run 10: Report of Copa — Data Link

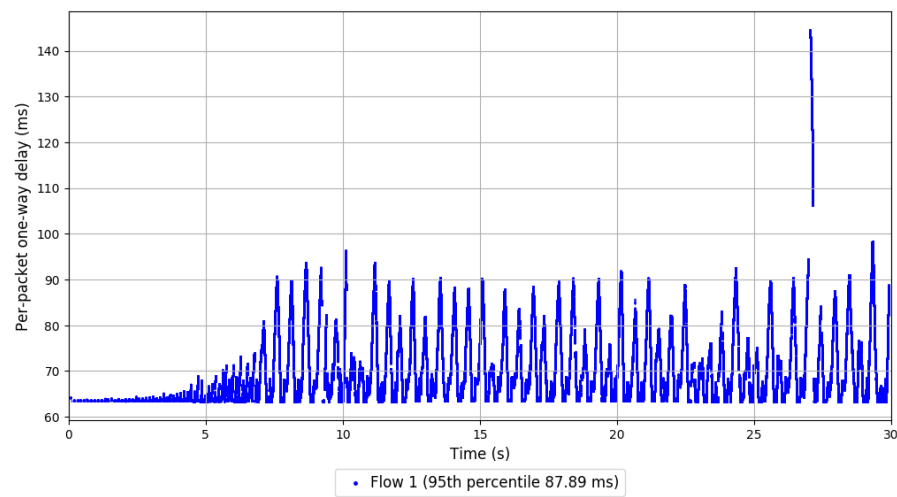
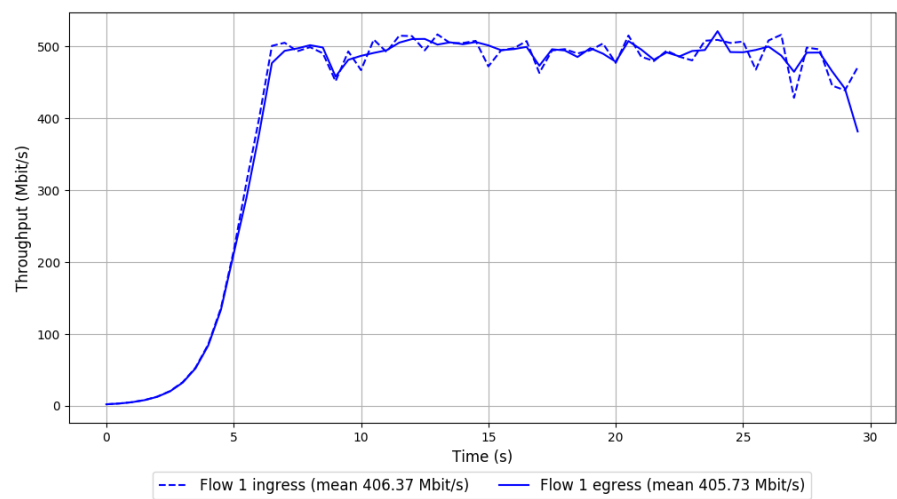


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-10-11 04:23:36
End at: 2017-10-11 04:24:06

# Below is generated by plot.py at 2017-10-11 08:40:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 405.73 Mbit/s
95th percentile per-packet one-way delay: 87.889 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 405.73 Mbit/s
95th percentile per-packet one-way delay: 87.889 ms
Loss rate: 0.57%
```


Run 1: Report of CalibratedKoho — Data Link



Run 2: Statistics of CalibratedKoho

Start at: 2017-10-11 04:34:19

End at: 2017-10-11 04:34:49

Below is generated by plot.py at 2017-10-11 08:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.55 Mbit/s

95th percentile per-packet one-way delay: 87.226 ms

Loss rate: 0.50%

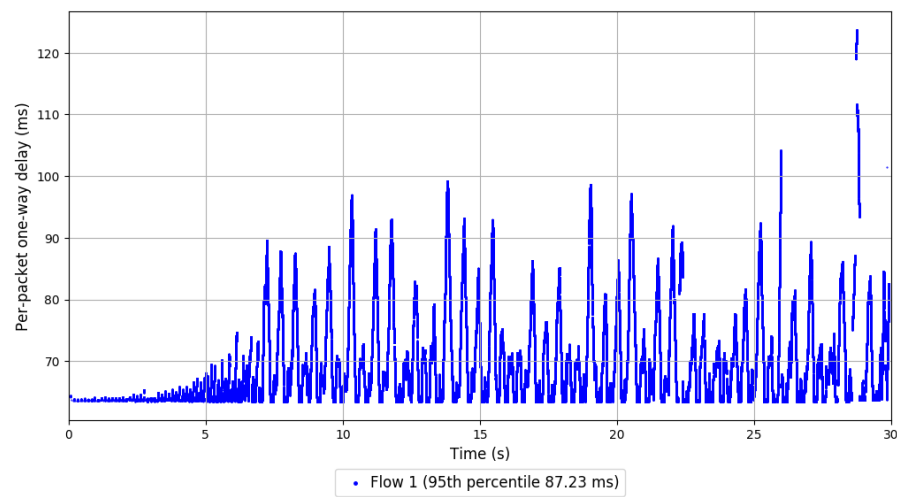
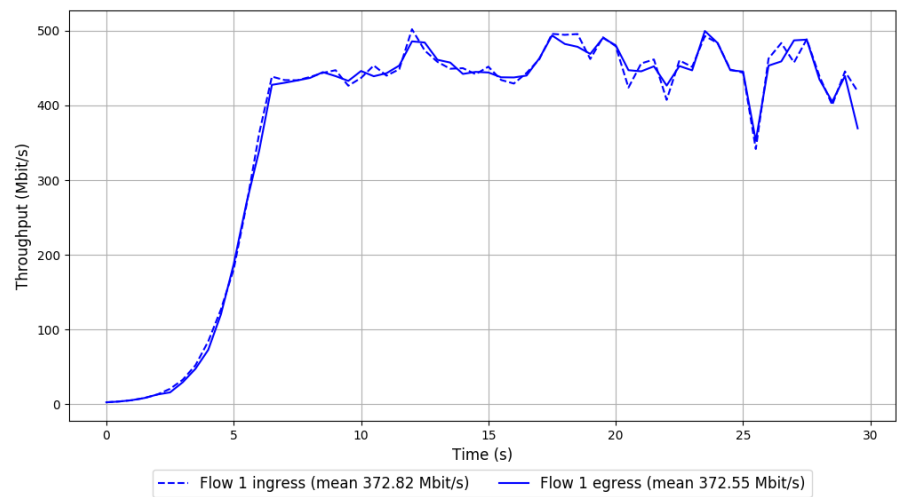
-- Flow 1:

Average throughput: 372.55 Mbit/s

95th percentile per-packet one-way delay: 87.226 ms

Loss rate: 0.50%

Run 2: Report of CalibratedKoho — Data Link



Run 3: Statistics of CalibratedKoho

Start at: 2017-10-11 04:44:53

End at: 2017-10-11 04:45:23

Below is generated by plot.py at 2017-10-11 08:40:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.72 Mbit/s

95th percentile per-packet one-way delay: 87.104 ms

Loss rate: 0.46%

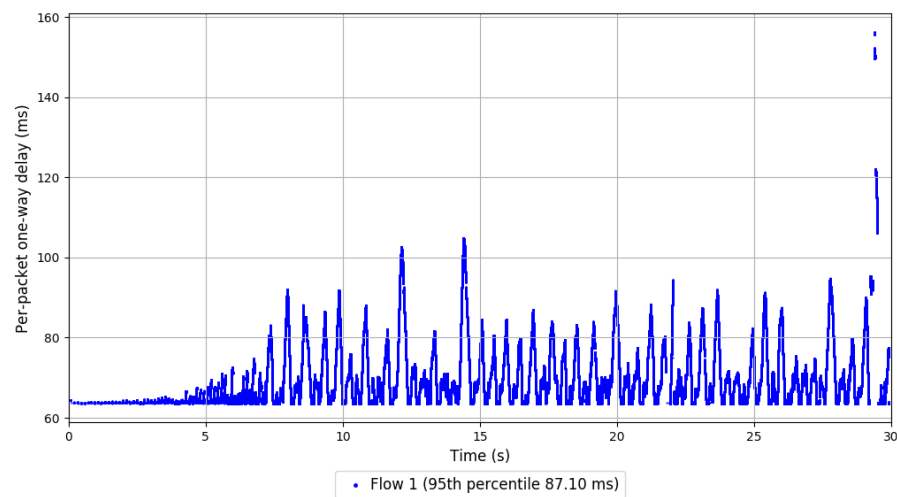
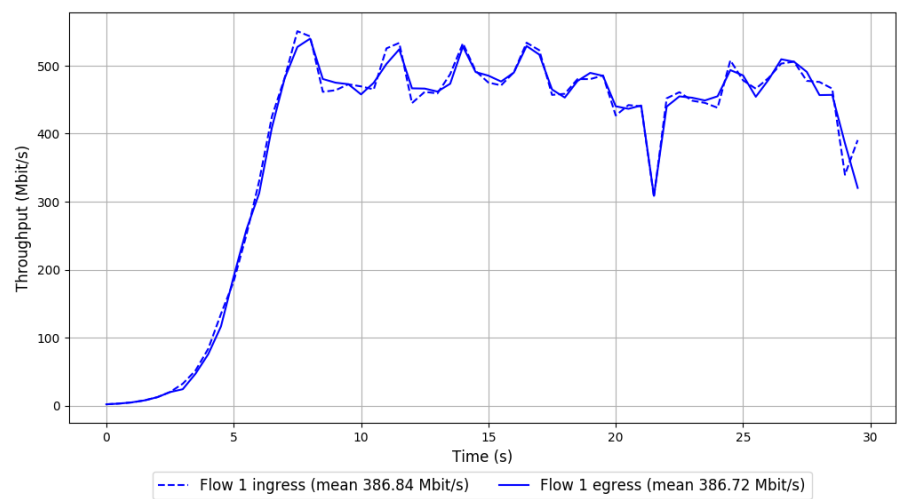
-- Flow 1:

Average throughput: 386.72 Mbit/s

95th percentile per-packet one-way delay: 87.104 ms

Loss rate: 0.46%

Run 3: Report of CalibratedKoho — Data Link



Run 4: Statistics of CalibratedKoho

Start at: 2017-10-11 04:55:36

End at: 2017-10-11 04:56:06

Below is generated by plot.py at 2017-10-11 08:40:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.32 Mbit/s

95th percentile per-packet one-way delay: 84.474 ms

Loss rate: 0.57%

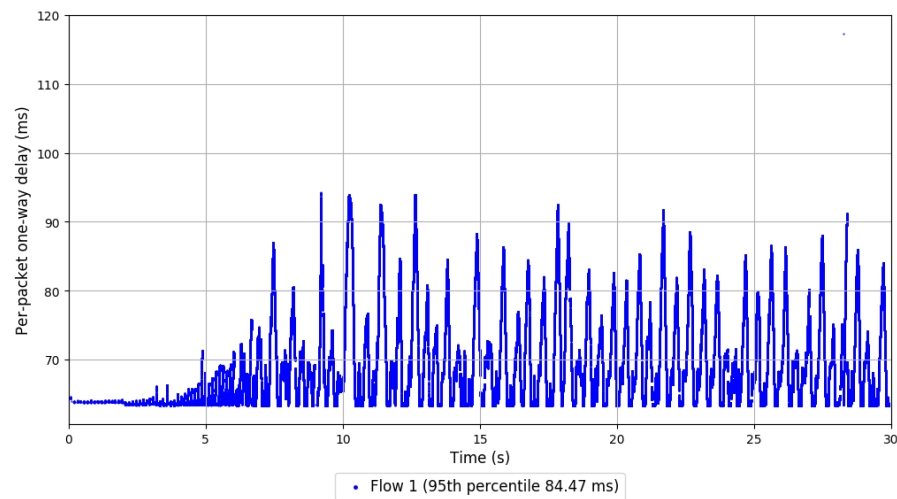
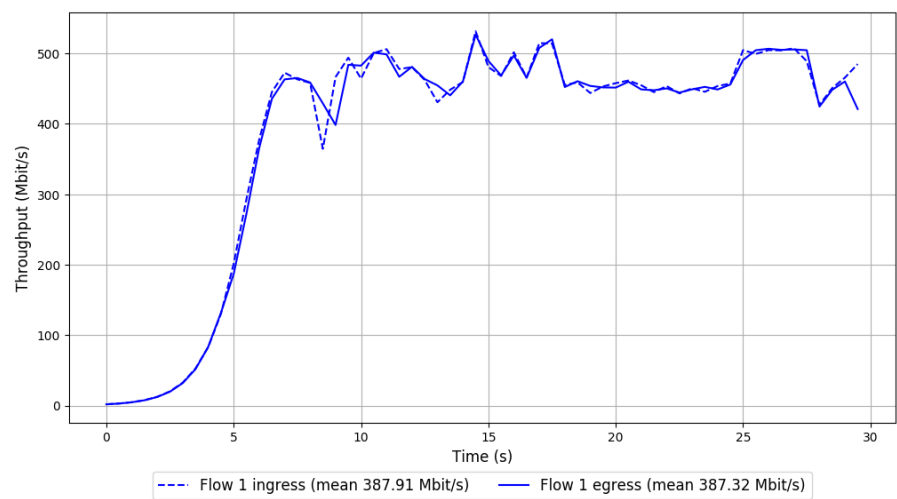
-- Flow 1:

Average throughput: 387.32 Mbit/s

95th percentile per-packet one-way delay: 84.474 ms

Loss rate: 0.57%

Run 4: Report of CalibratedKoho — Data Link



Run 5: Statistics of CalibratedKoho

Start at: 2017-10-11 05:06:15

End at: 2017-10-11 05:06:45

Below is generated by plot.py at 2017-10-11 08:40:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.14 Mbit/s

95th percentile per-packet one-way delay: 84.054 ms

Loss rate: 0.51%

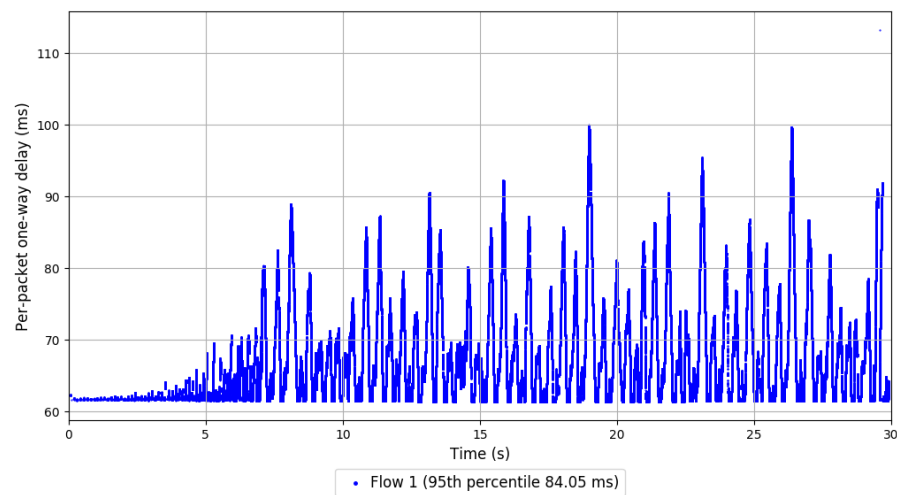
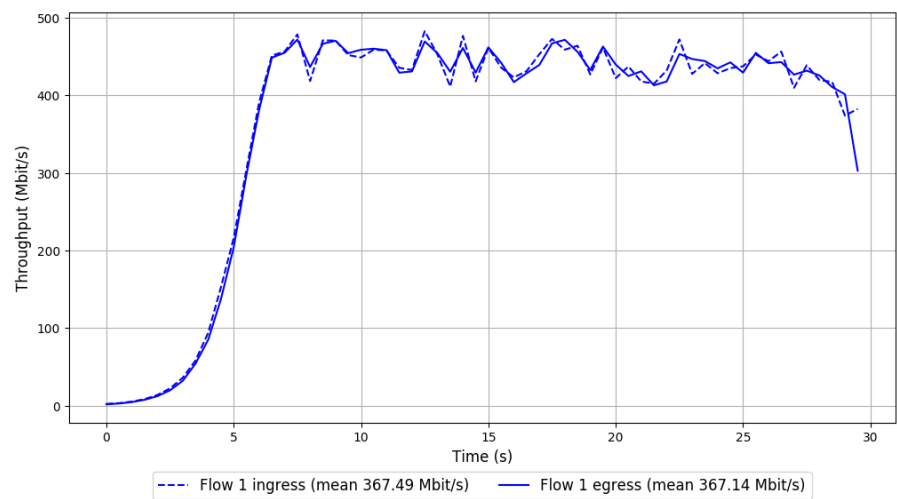
-- Flow 1:

Average throughput: 367.14 Mbit/s

95th percentile per-packet one-way delay: 84.054 ms

Loss rate: 0.51%

Run 5: Report of CalibratedKoho — Data Link



Run 6: Statistics of CalibratedKoho

Start at: 2017-10-11 05:16:59

End at: 2017-10-11 05:17:29

Below is generated by plot.py at 2017-10-11 08:40:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.30 Mbit/s

95th percentile per-packet one-way delay: 83.415 ms

Loss rate: 0.62%

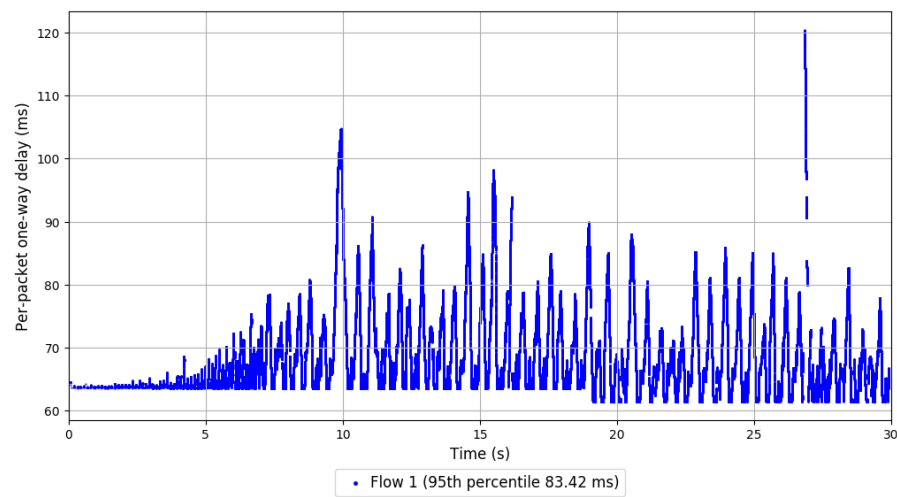
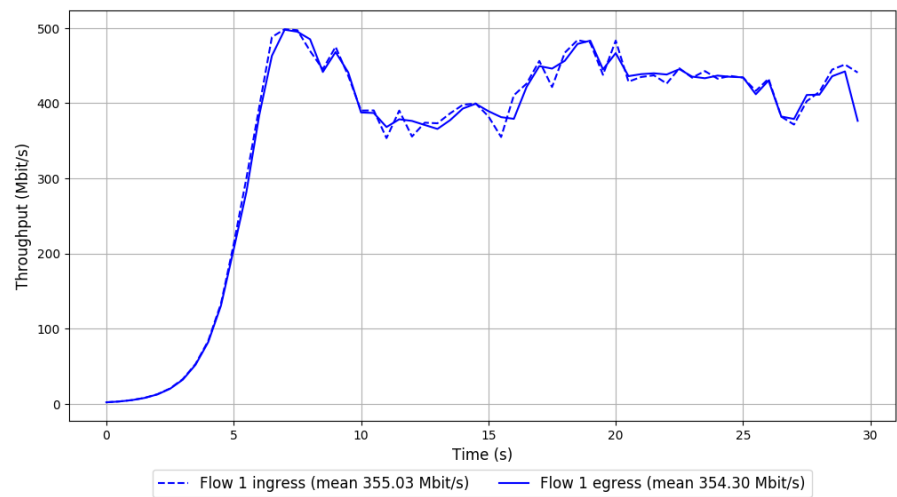
-- Flow 1:

Average throughput: 354.30 Mbit/s

95th percentile per-packet one-way delay: 83.415 ms

Loss rate: 0.62%

Run 6: Report of CalibratedKoho — Data Link



Run 7: Statistics of CalibratedKoho

Start at: 2017-10-11 05:27:37

End at: 2017-10-11 05:28:07

Below is generated by plot.py at 2017-10-11 08:40:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.72 Mbit/s

95th percentile per-packet one-way delay: 80.426 ms

Loss rate: 0.50%

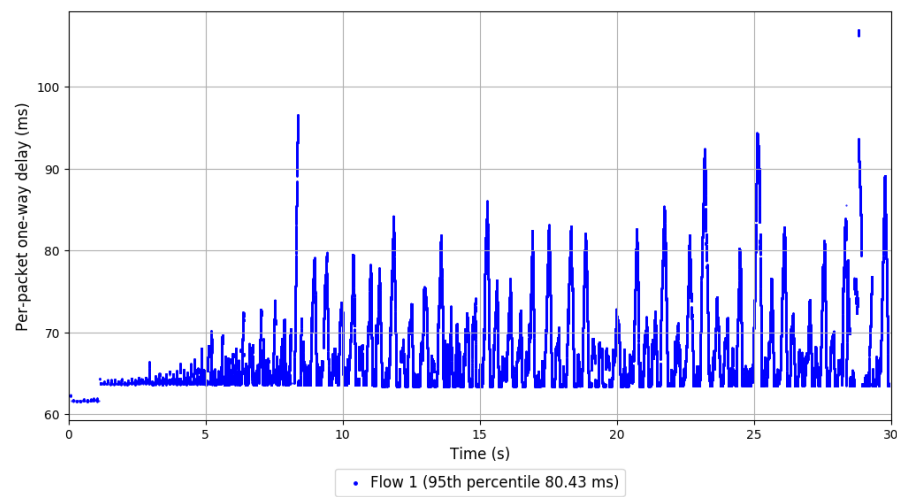
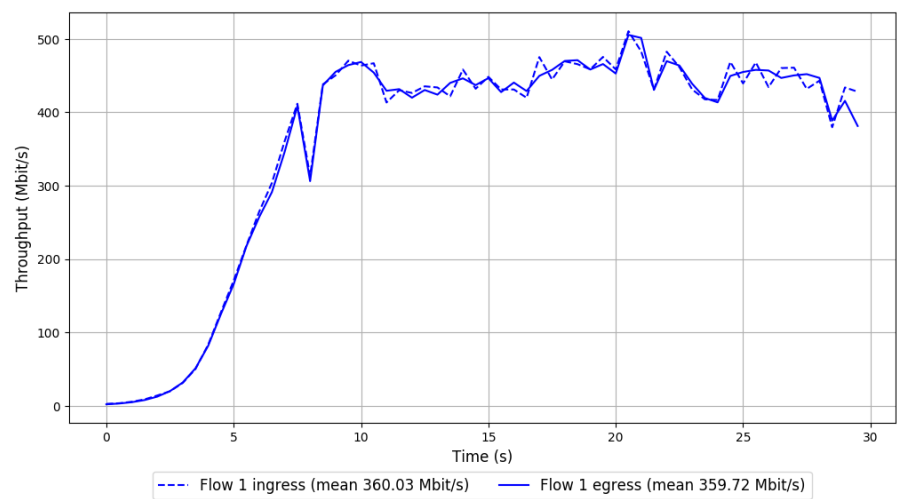
-- Flow 1:

Average throughput: 359.72 Mbit/s

95th percentile per-packet one-way delay: 80.426 ms

Loss rate: 0.50%

Run 7: Report of CalibratedKoho — Data Link



Run 8: Statistics of CalibratedKoho

Start at: 2017-10-11 05:38:14

End at: 2017-10-11 05:38:44

Below is generated by plot.py at 2017-10-11 08:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.65 Mbit/s

95th percentile per-packet one-way delay: 81.614 ms

Loss rate: 0.58%

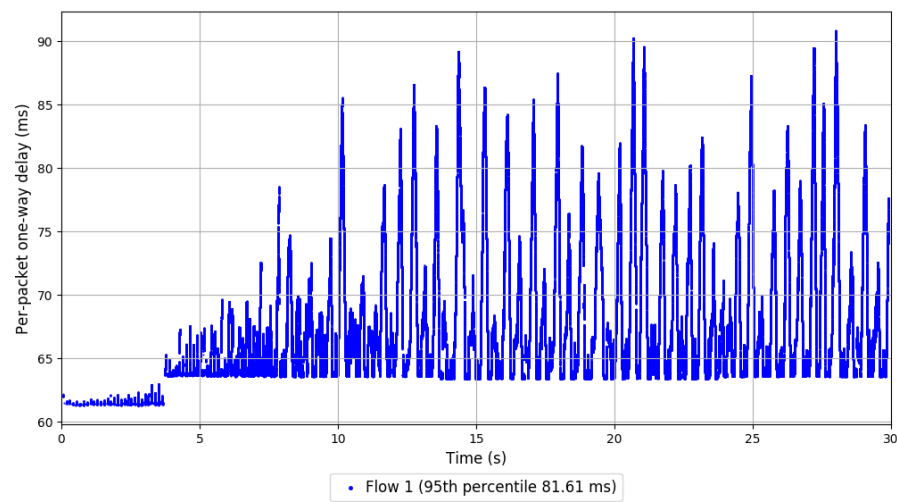
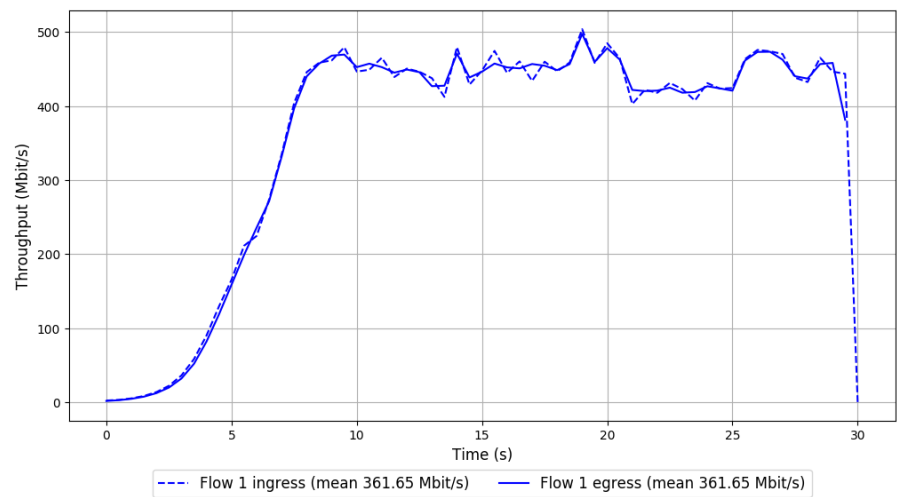
-- Flow 1:

Average throughput: 361.65 Mbit/s

95th percentile per-packet one-way delay: 81.614 ms

Loss rate: 0.58%

Run 8: Report of CalibratedKoho — Data Link



Run 9: Statistics of CalibratedKoho

Start at: 2017-10-11 05:48:50

End at: 2017-10-11 05:49:20

Below is generated by plot.py at 2017-10-11 08:42:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.48 Mbit/s

95th percentile per-packet one-way delay: 83.769 ms

Loss rate: 0.54%

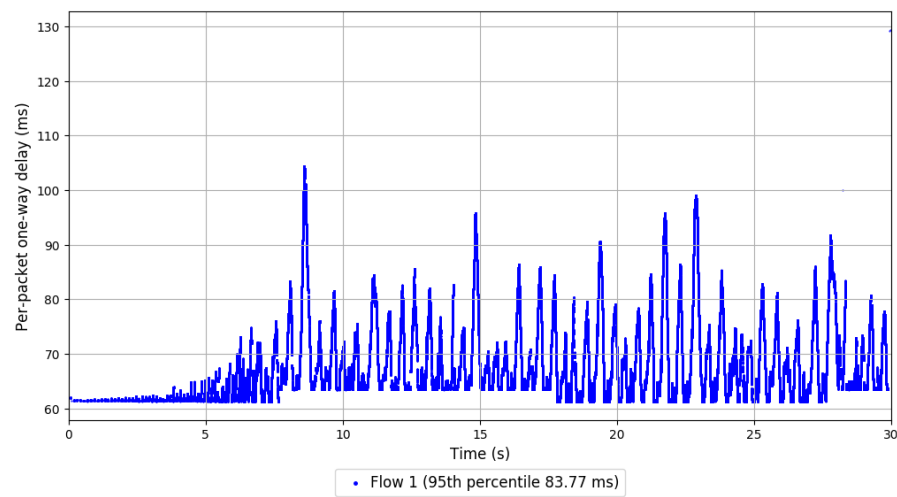
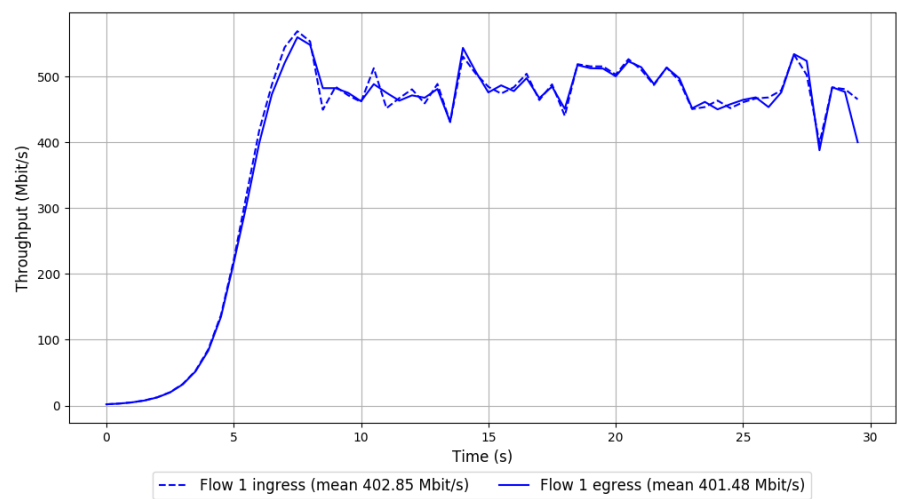
-- Flow 1:

Average throughput: 401.48 Mbit/s

95th percentile per-packet one-way delay: 83.769 ms

Loss rate: 0.54%

Run 9: Report of CalibratedKoho — Data Link



Run 10: Statistics of CalibratedKoho

Start at: 2017-10-11 05:59:06

End at: 2017-10-11 05:59:36

Below is generated by plot.py at 2017-10-11 08:42:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.41 Mbit/s

95th percentile per-packet one-way delay: 82.803 ms

Loss rate: 0.57%

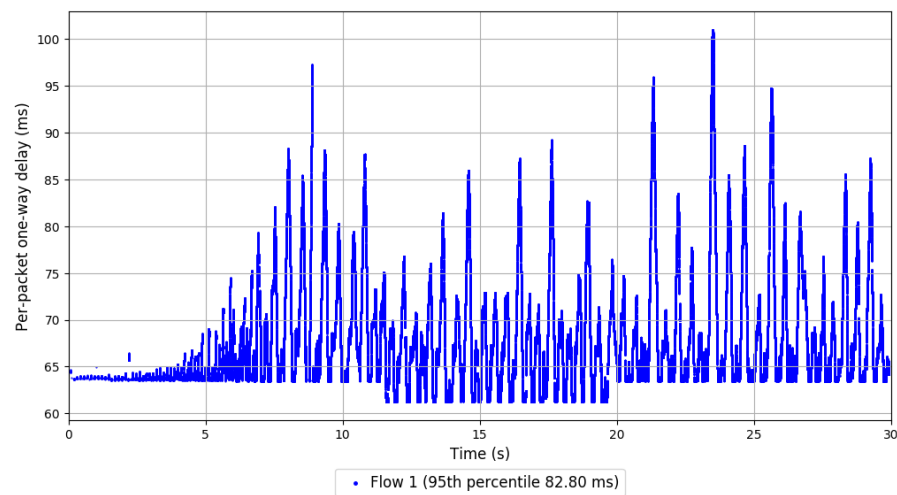
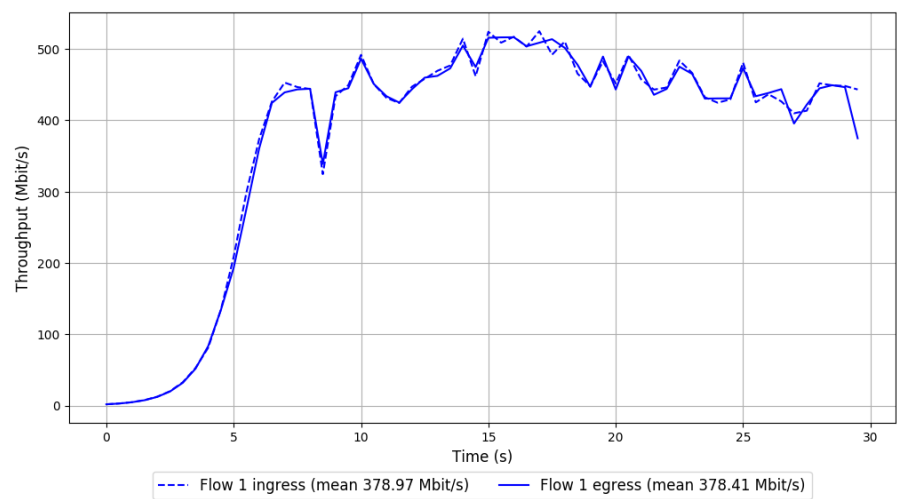
-- Flow 1:

Average throughput: 378.41 Mbit/s

95th percentile per-packet one-way delay: 82.803 ms

Loss rate: 0.57%

Run 10: Report of CalibratedKoho — Data Link

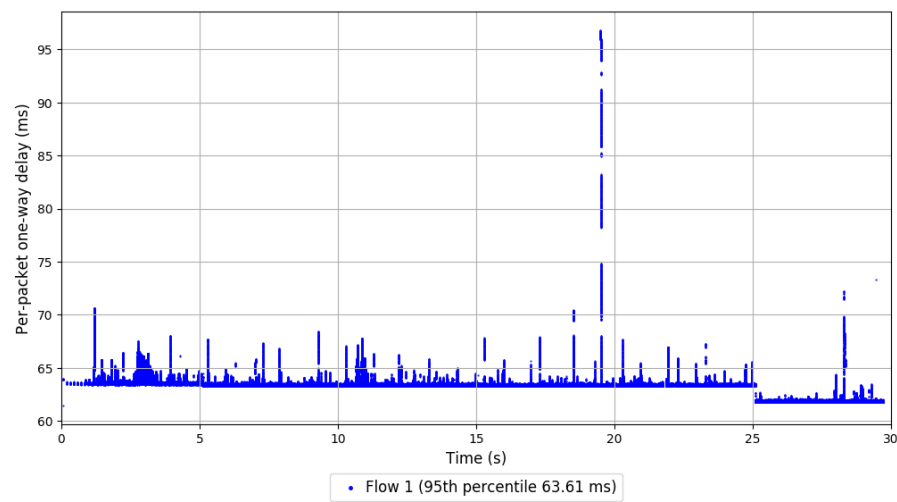
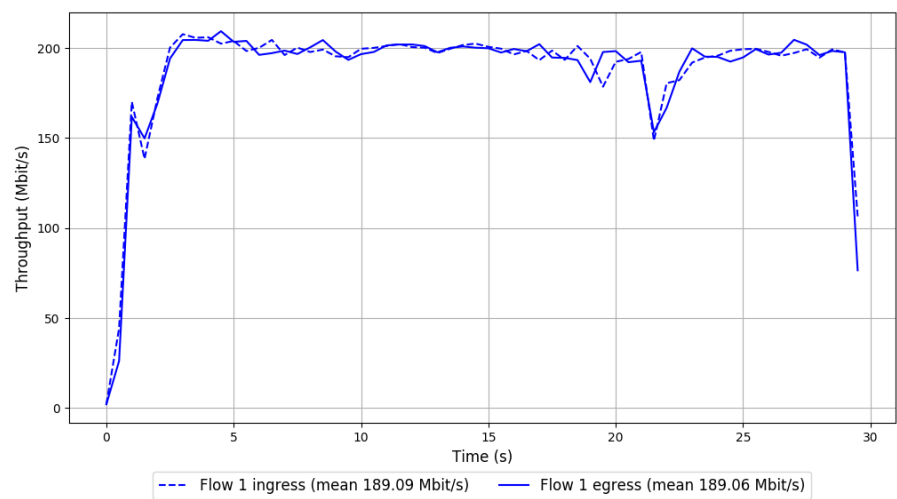


```
Run 1: Statistics of Indigo

Start at: 2017-10-11 04:17:22
End at: 2017-10-11 04:17:52

# Below is generated by plot.py at 2017-10-11 08:42:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 189.06 Mbit/s
95th percentile per-packet one-way delay: 63.614 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 189.06 Mbit/s
95th percentile per-packet one-way delay: 63.614 ms
Loss rate: 0.44%
```

Run 1: Report of Indigo — Data Link

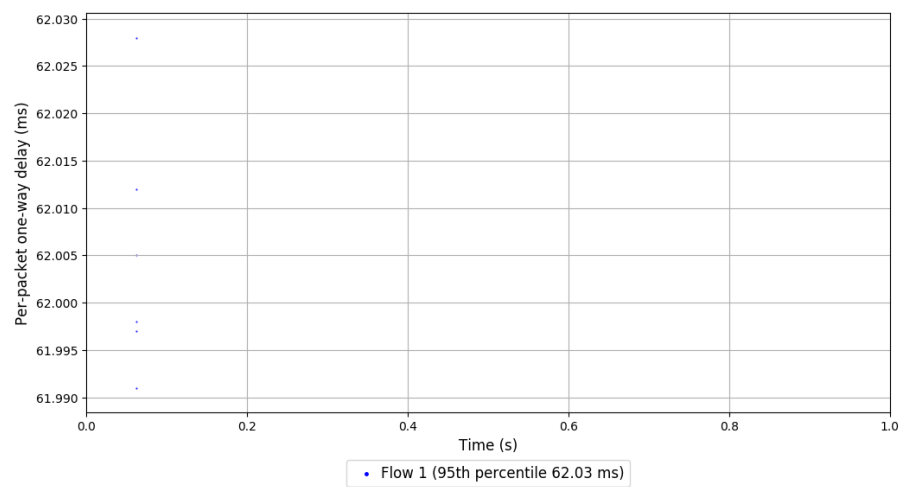
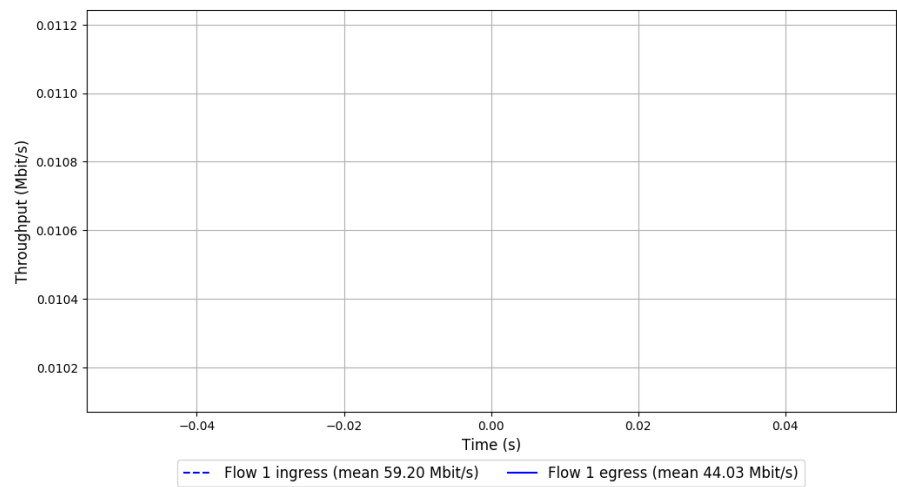


Run 2: Statistics of Indigo

Start at: 2017-10-11 04:28:19

End at: 2017-10-11 04:28:49

Run 2: Report of Indigo — Data Link

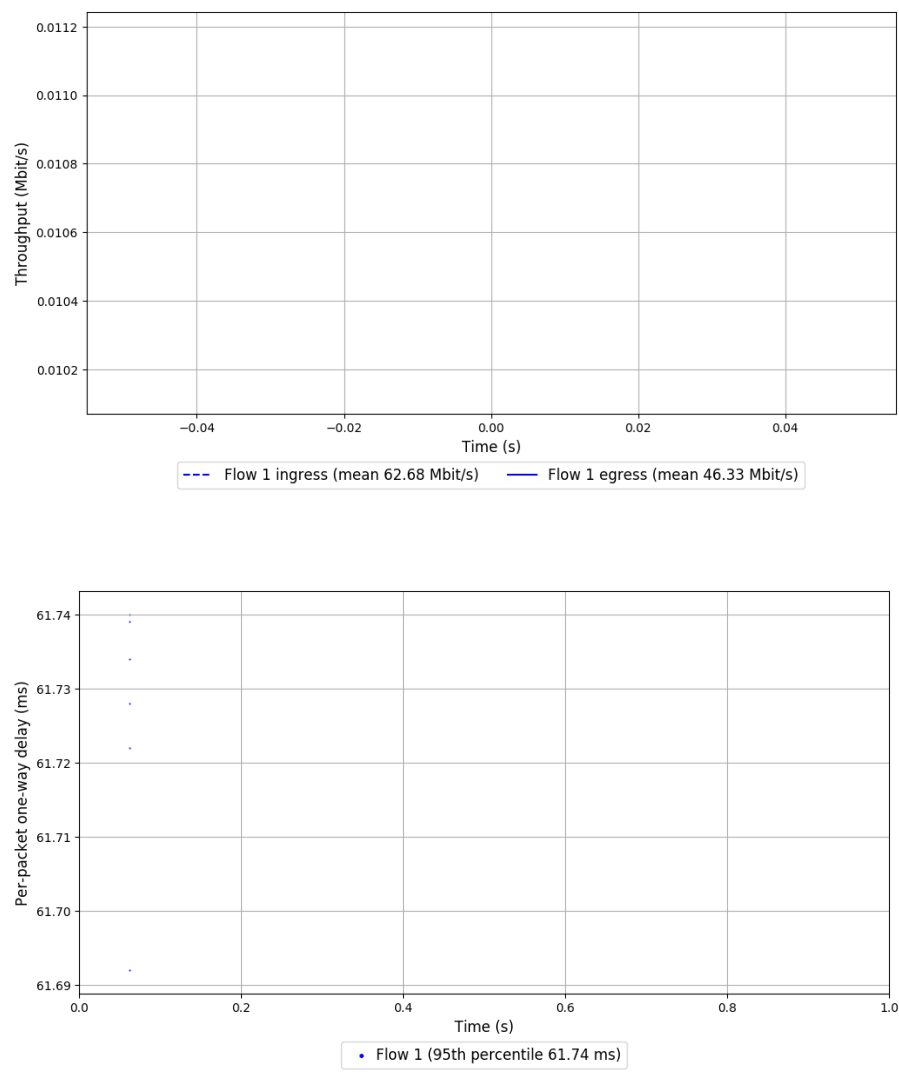


Run 3: Statistics of Indigo

Start at: 2017-10-11 04:38:56

End at: 2017-10-11 04:39:26

Run 3: Report of Indigo — Data Link

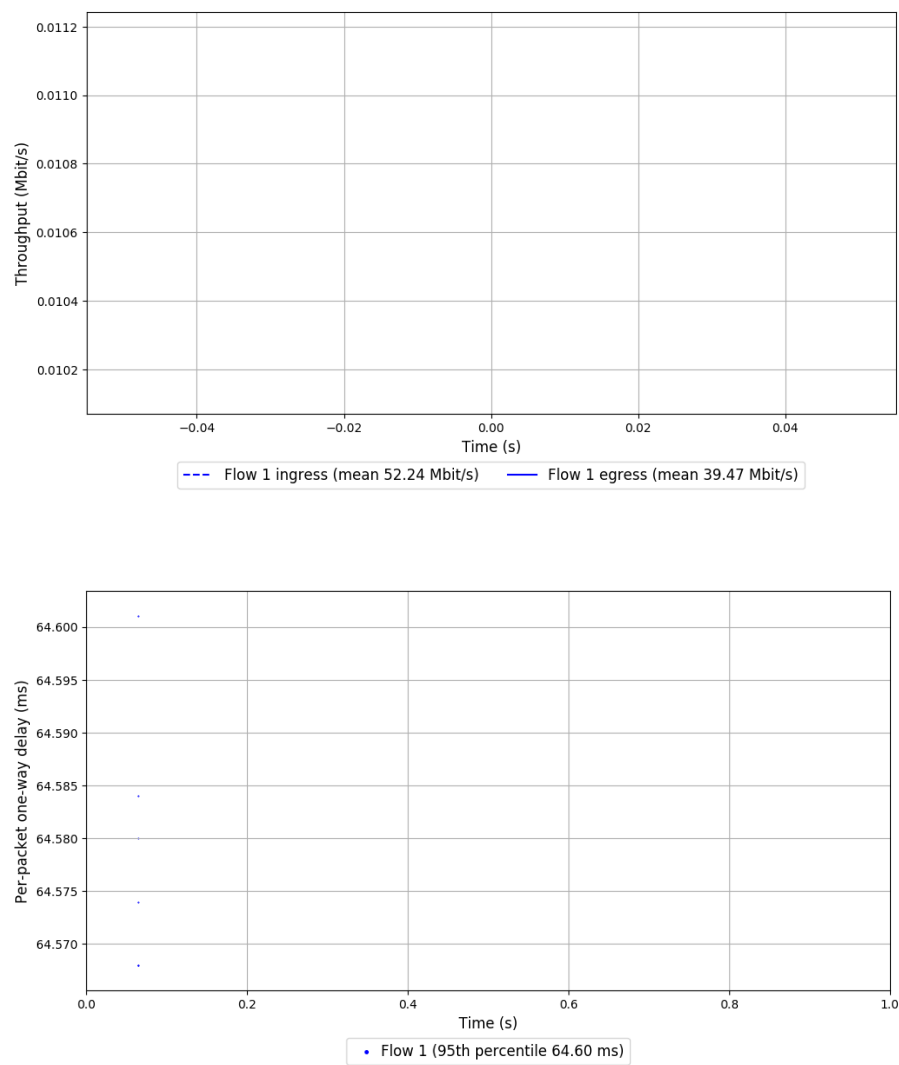


Run 4: Statistics of Indigo

Start at: 2017-10-11 04:49:34

End at: 2017-10-11 04:50:04

Run 4: Report of Indigo — Data Link

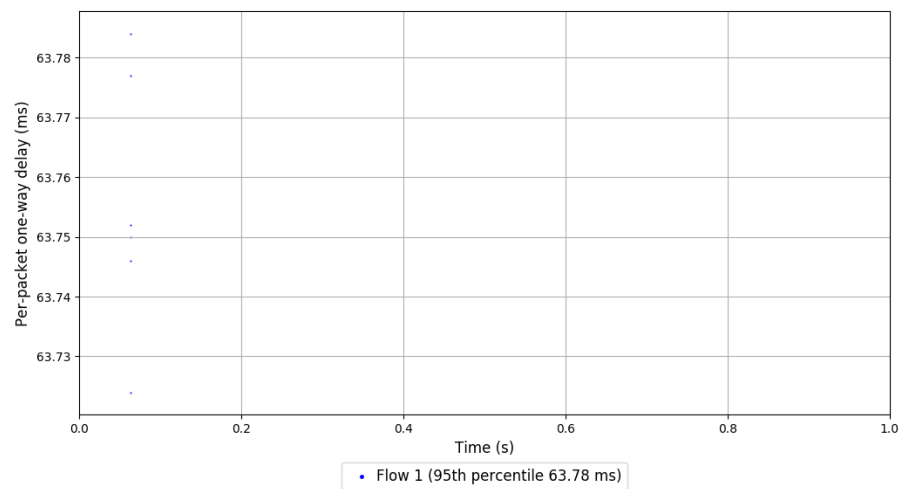
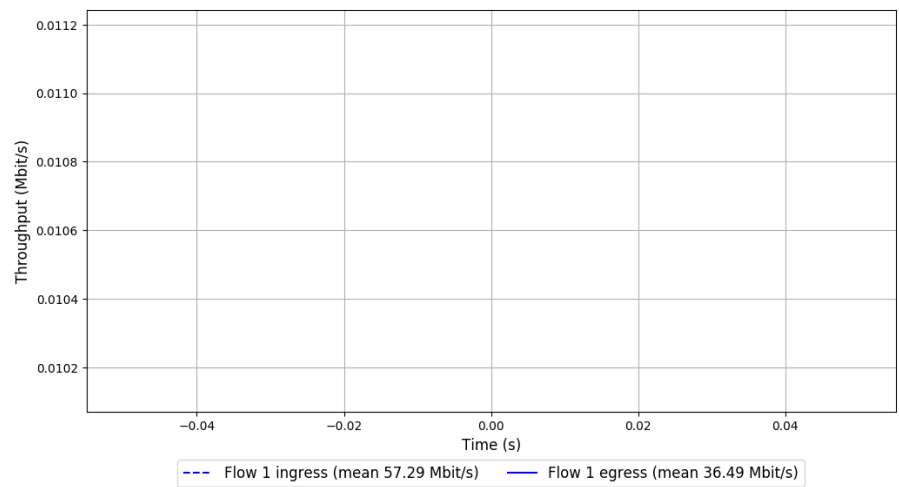


Run 5: Statistics of Indigo

Start at: 2017-10-11 05:00:13

End at: 2017-10-11 05:00:43

Run 5: Report of Indigo — Data Link

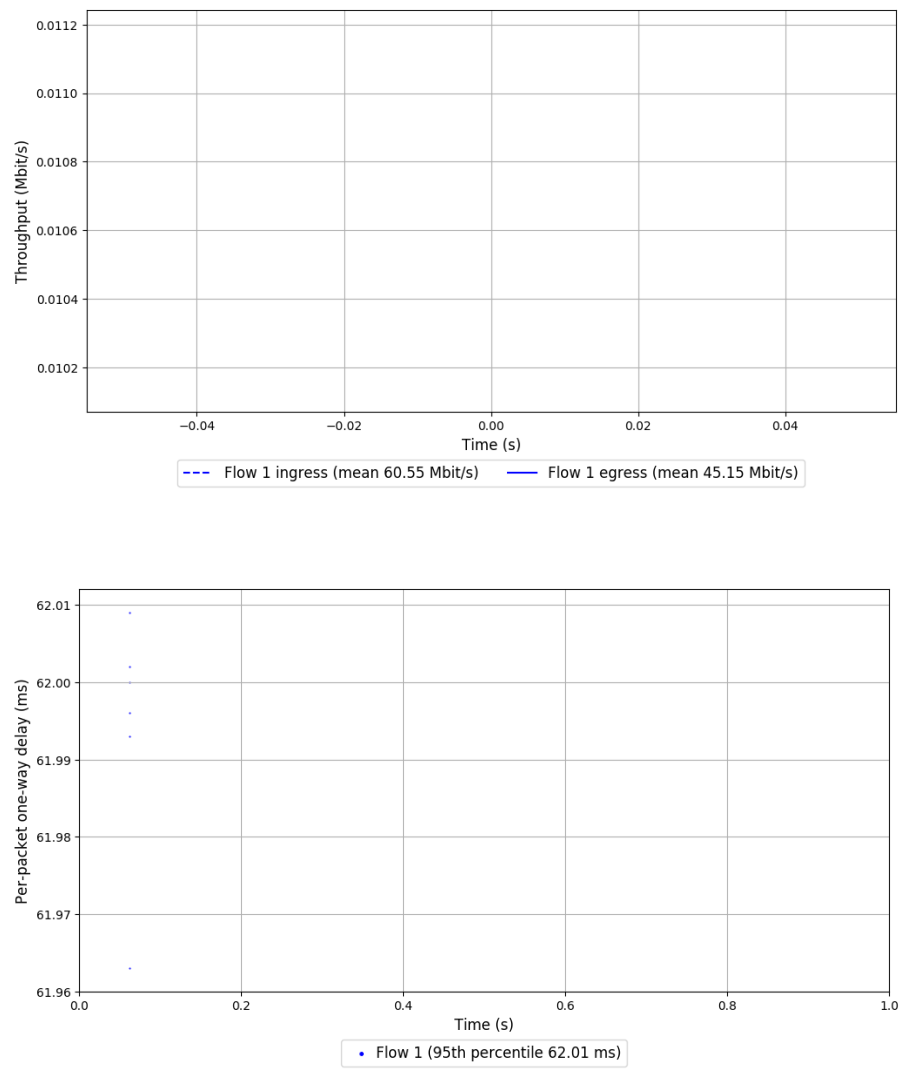


Run 6: Statistics of Indigo

Start at: 2017-10-11 05:10:54

End at: 2017-10-11 05:11:24

Run 6: Report of Indigo — Data Link

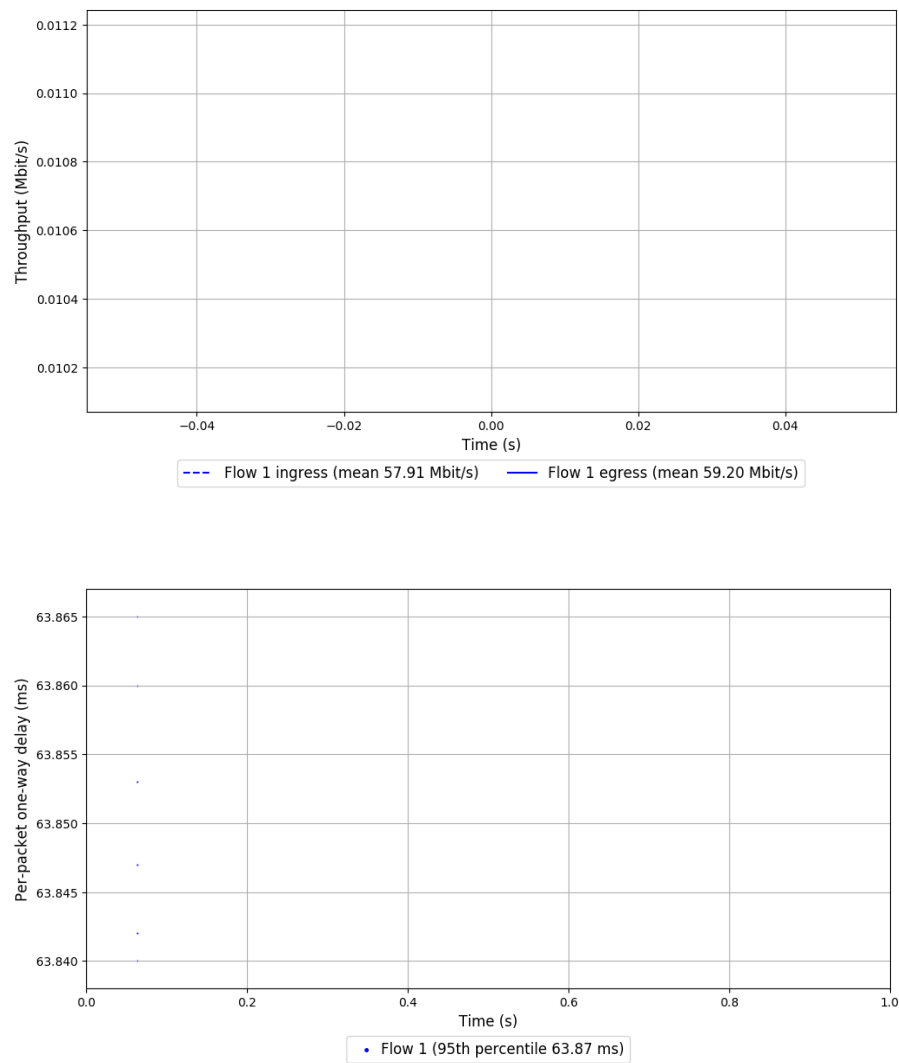


Run 7: Statistics of Indigo

Start at: 2017-10-11 05:21:36

End at: 2017-10-11 05:22:06

Run 7: Report of Indigo — Data Link

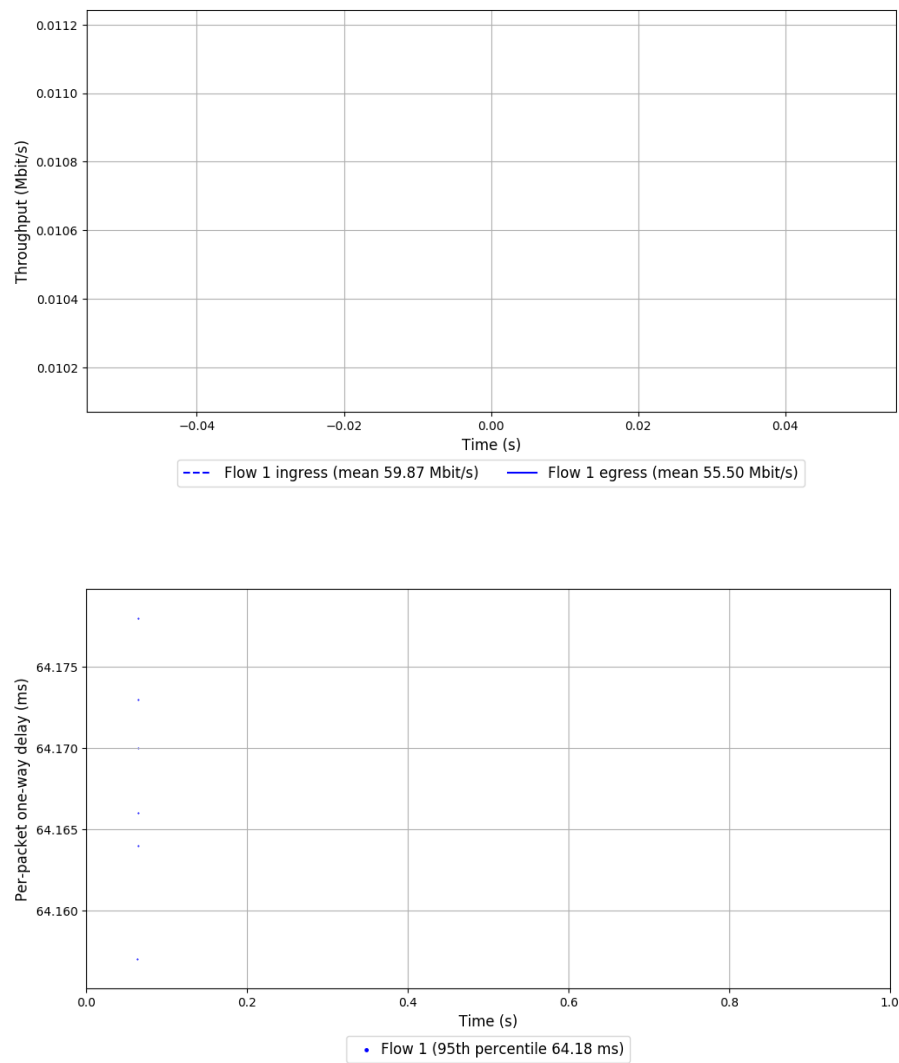


Run 8: Statistics of Indigo

Start at: 2017-10-11 05:32:11

End at: 2017-10-11 05:32:41

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-10-11 05:42:36

End at: 2017-10-11 05:43:06

Below is generated by plot.py at 2017-10-11 08:42:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.47 Mbit/s

95th percentile per-packet one-way delay: 63.589 ms

Loss rate: 0.41%

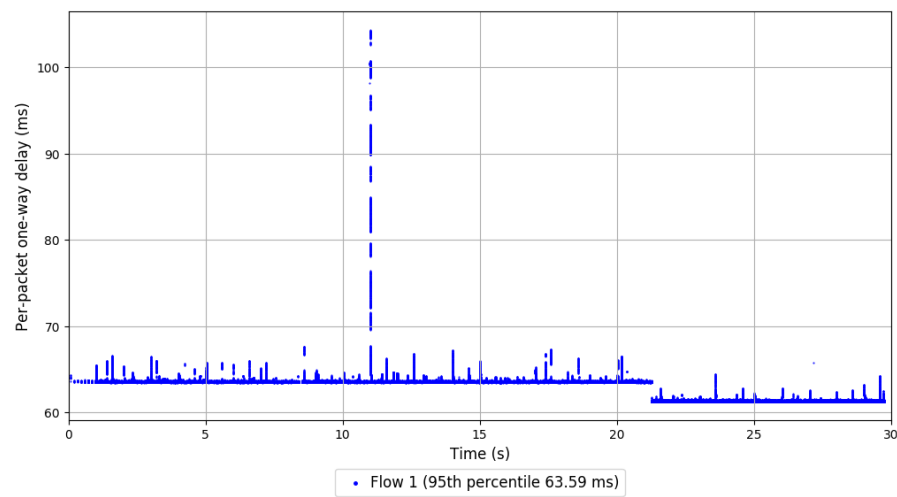
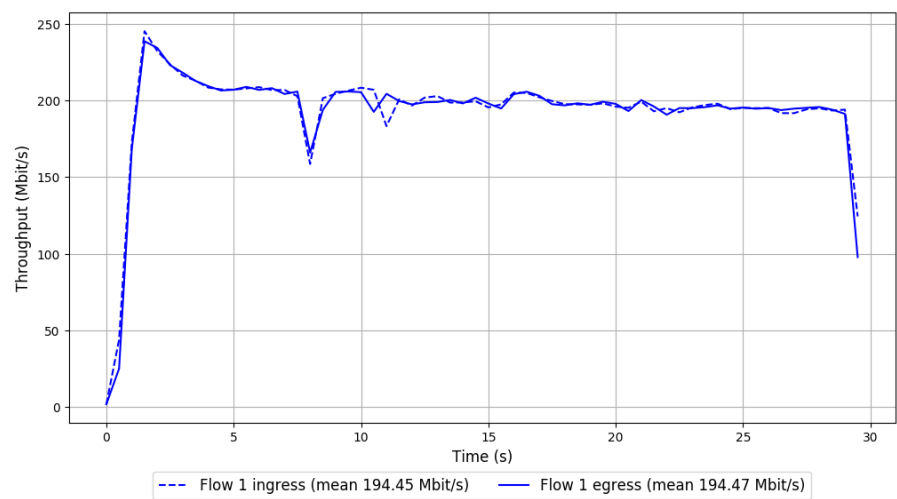
-- Flow 1:

Average throughput: 194.47 Mbit/s

95th percentile per-packet one-way delay: 63.589 ms

Loss rate: 0.41%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-10-11 05:53:15

End at: 2017-10-11 05:53:45

Below is generated by plot.py at 2017-10-11 08:42:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.70 Mbit/s

95th percentile per-packet one-way delay: 61.380 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 187.70 Mbit/s

95th percentile per-packet one-way delay: 61.380 ms

Loss rate: 0.42%

Run 10: Report of Indigo — Data Link

