

Pantheon Report

Generated at 2018-01-09 11:12:24 (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.

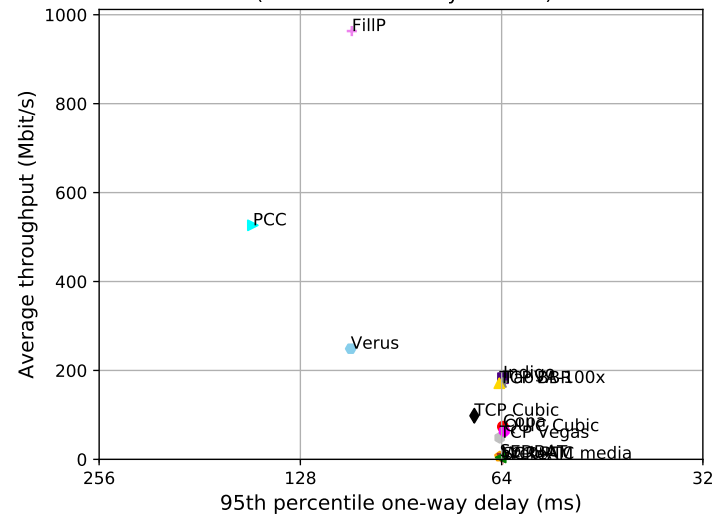
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

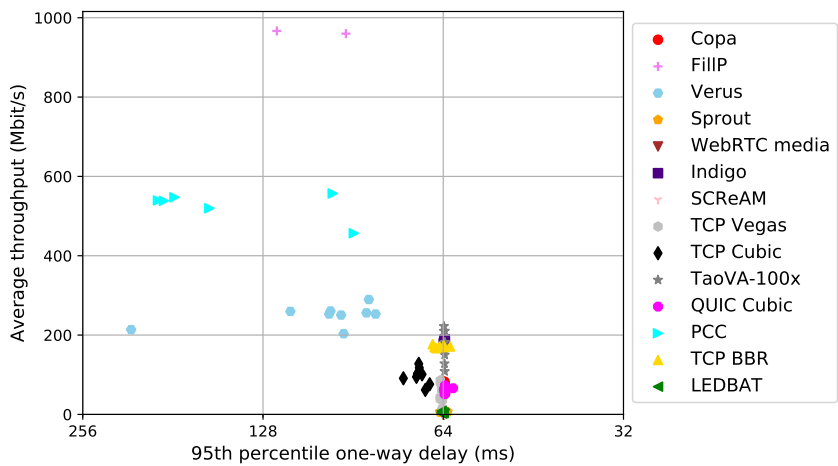
Git summary:

```
branch: master @ 56d1792c316a5efca3f2d21342905405fedffb48
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	171.27	64.51	0.56
TCP Cubic	10	98.15	70.31	0.68
LEDBAT	10	4.27	64.21	0.94
PCC	6	526.39	150.75	1.40
QUIC Cubic	10	63.47	63.43	0.65
SCReAM	10	0.22	63.81	0.38
WebRTC media	10	1.35	63.82	0.47
Sprout	10	6.45	64.41	0.62
TaoVA-100x	10	171.88	63.72	0.36
TCP Vegas	10	48.51	64.44	0.76
Verus	9	248.88	107.63	0.73
Copa	10	73.45	63.72	0.29
FillP	2	963.30	107.21	0.69
Indigo	10	182.61	63.70	0.56

Run 1: Statistics of TCP BBR

Start at: 2018-01-09 06:46:17

End at: 2018-01-09 06:46:47

Below is generated by plot.py at 2018-01-09 10:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.55 Mbit/s

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

Loss rate: 0.44%

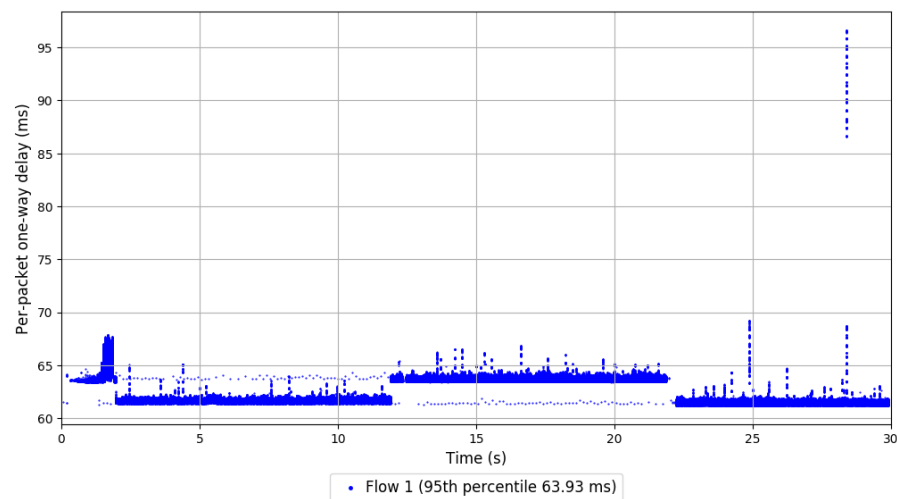
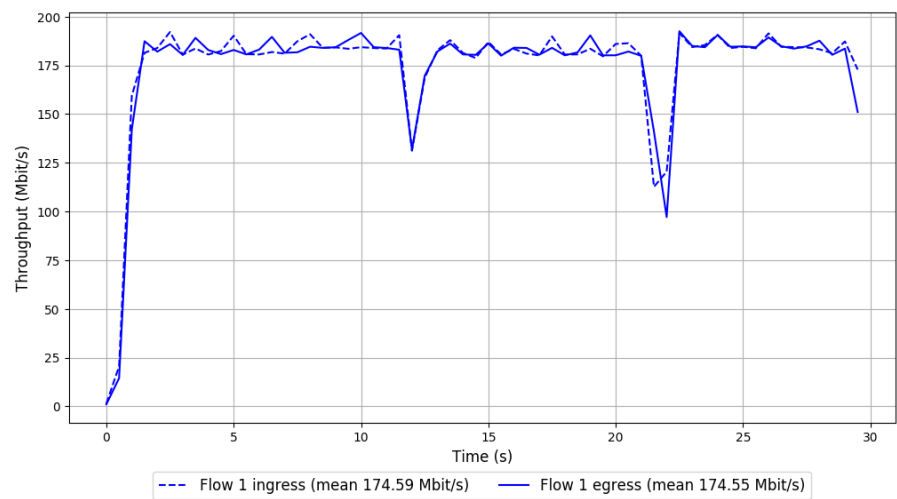
-- Flow 1:

Average throughput: 174.55 Mbit/s

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

Loss rate: 0.44%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-09 06:57:24

End at: 2018-01-09 06:57:54

Below is generated by plot.py at 2018-01-09 10:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.26 Mbit/s

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

Loss rate: 0.59%

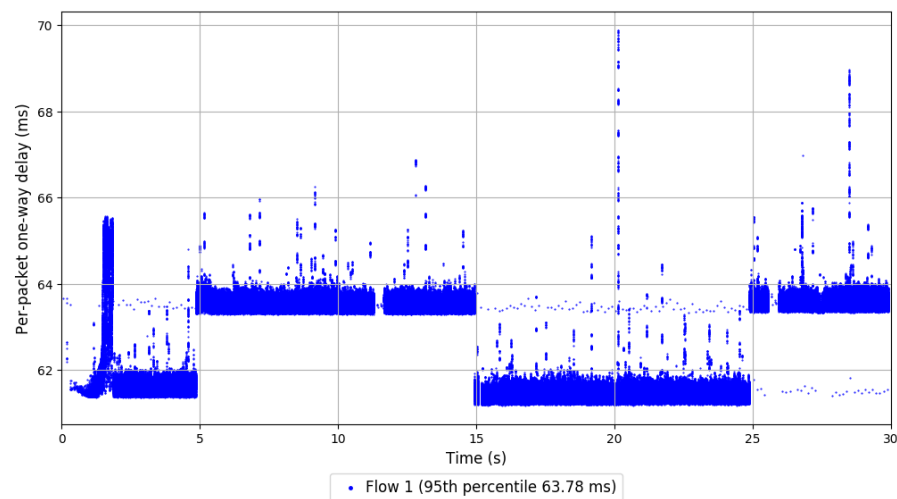
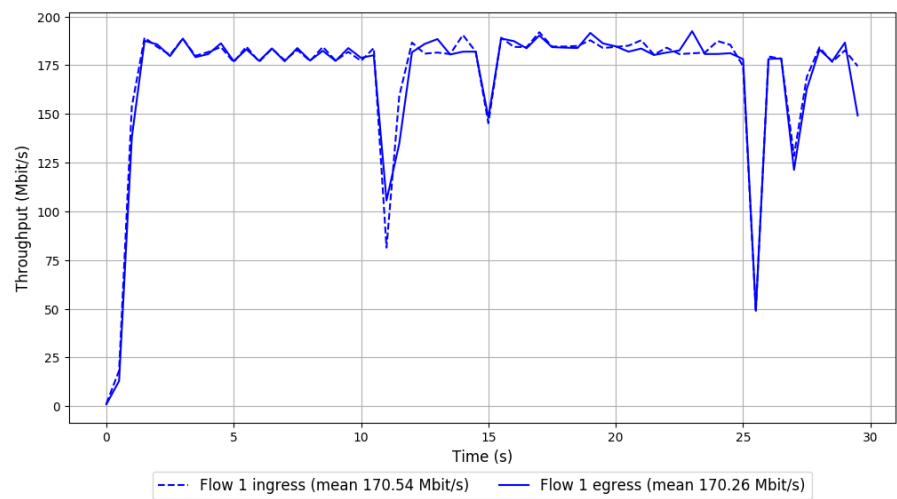
-- Flow 1:

Average throughput: 170.26 Mbit/s

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

Loss rate: 0.59%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-09 07:08:25

End at: 2018-01-09 07:08:55

Below is generated by plot.py at 2018-01-09 10:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.10 Mbit/s

95th percentile per-packet one-way delay: 63.789 ms

Loss rate: 0.43%

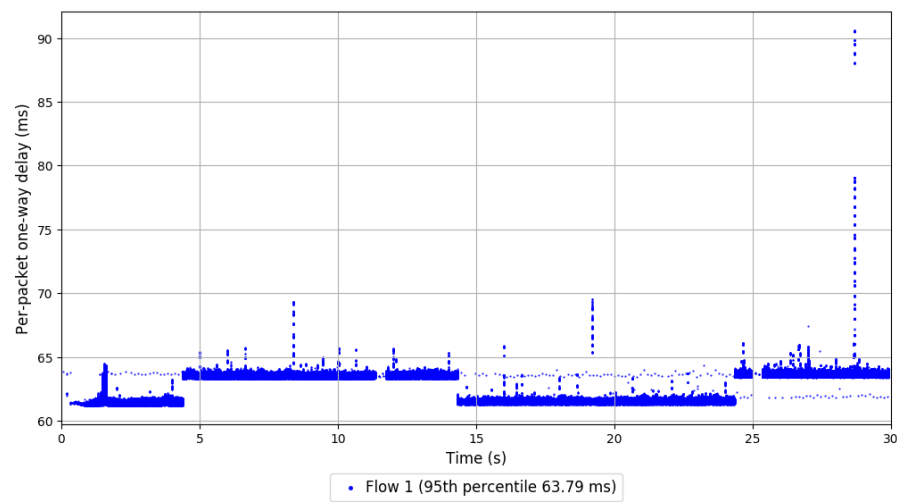
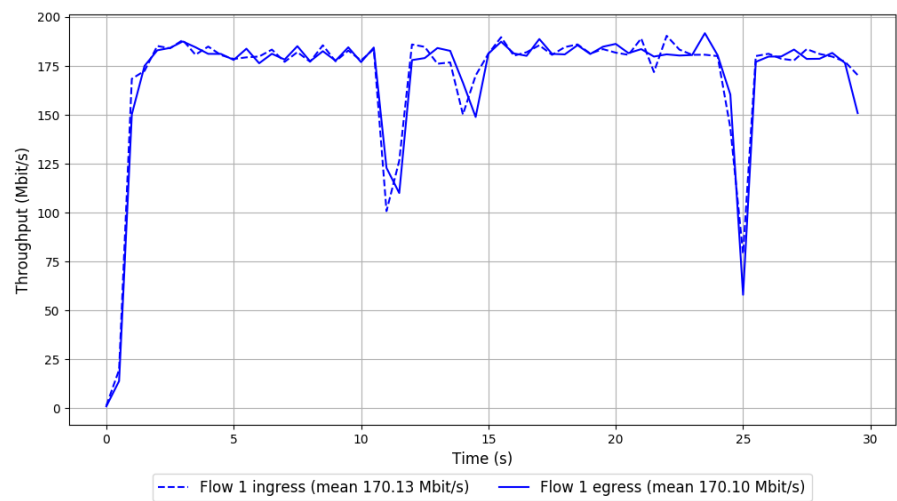
-- Flow 1:

Average throughput: 170.10 Mbit/s

95th percentile per-packet one-way delay: 63.789 ms

Loss rate: 0.43%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-09 07:19:59

End at: 2018-01-09 07:20:29

Below is generated by plot.py at 2018-01-09 10:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.93 Mbit/s

95th percentile per-packet one-way delay: 65.735 ms

Loss rate: 0.54%

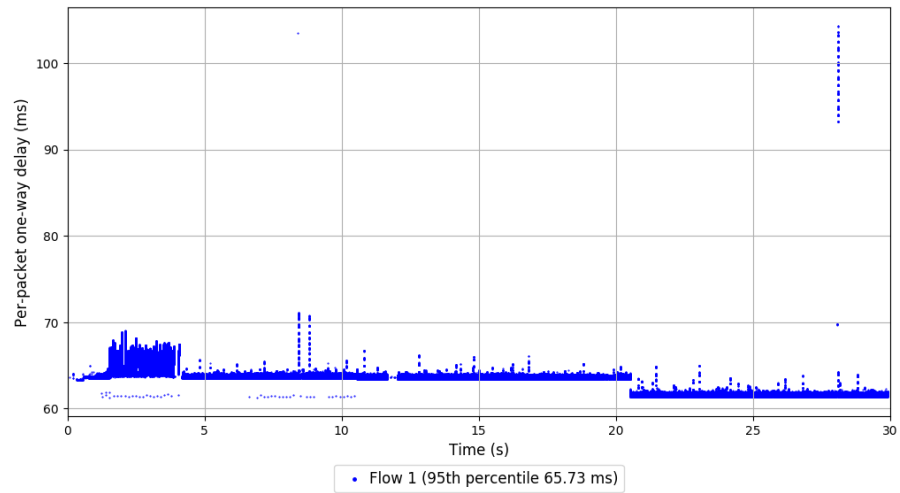
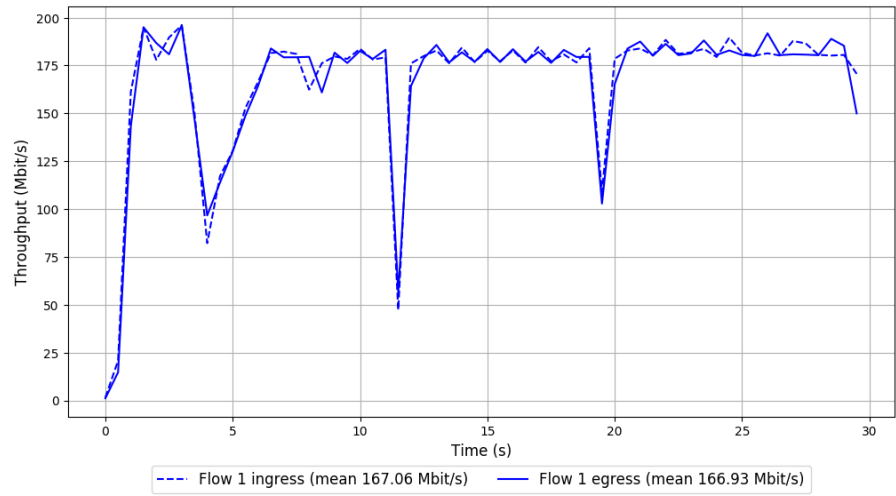
-- Flow 1:

Average throughput: 166.93 Mbit/s

95th percentile per-packet one-way delay: 65.735 ms

Loss rate: 0.54%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-09 07:31:41

End at: 2018-01-09 07:32:11

Below is generated by plot.py at 2018-01-09 10:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.70 Mbit/s

95th percentile per-packet one-way delay: 63.875 ms

Loss rate: 0.63%

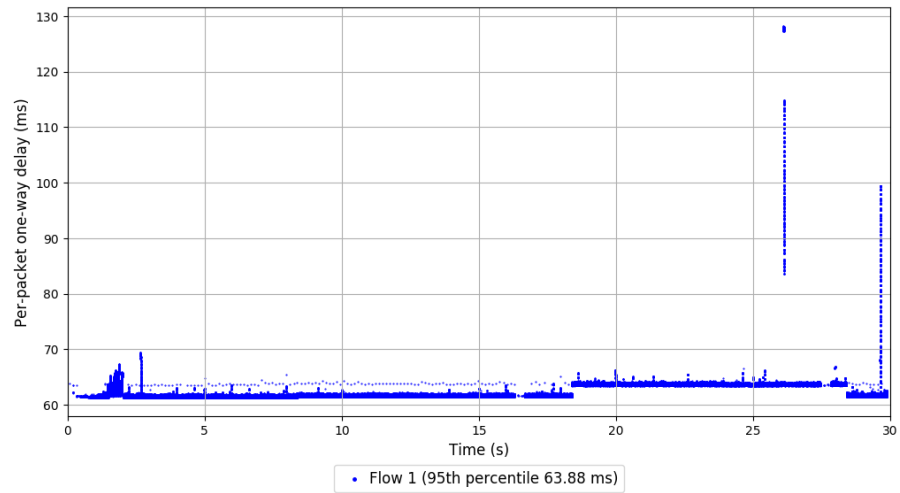
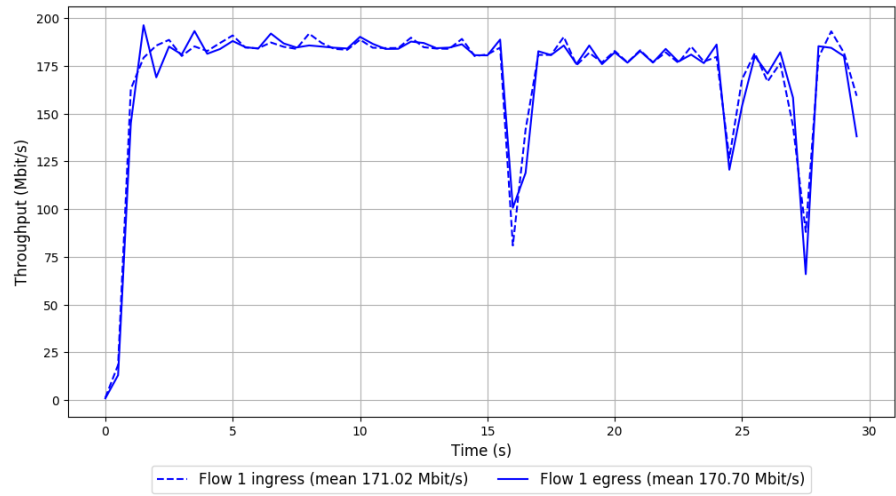
-- Flow 1:

Average throughput: 170.70 Mbit/s

95th percentile per-packet one-way delay: 63.875 ms

Loss rate: 0.63%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-09 07:43:22

End at: 2018-01-09 07:43:52

Below is generated by plot.py at 2018-01-09 10:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.23 Mbit/s

95th percentile per-packet one-way delay: 64.891 ms

Loss rate: 0.68%

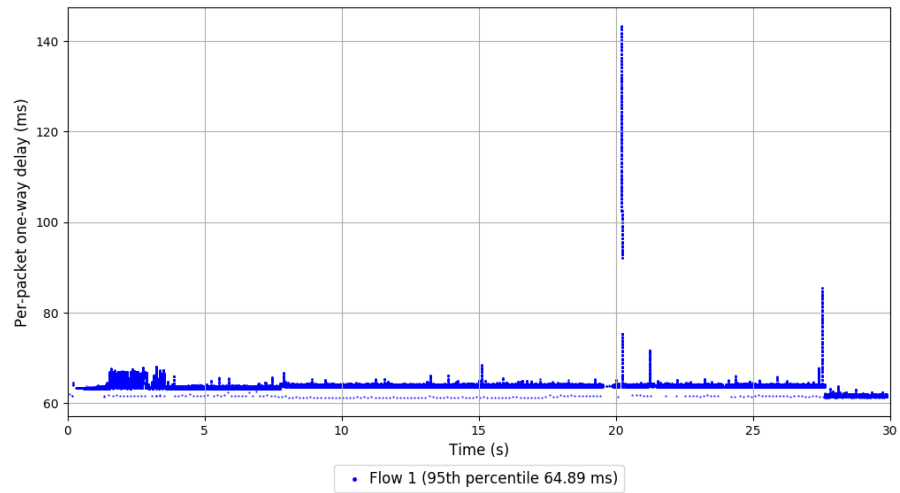
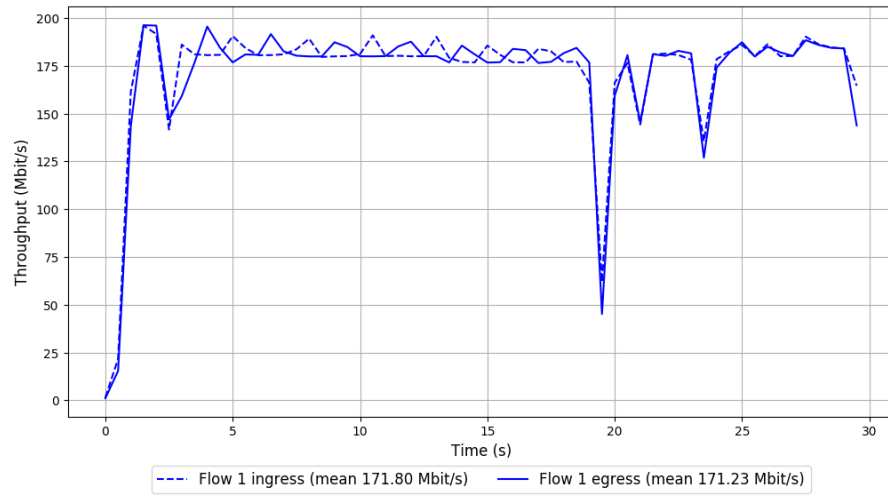
-- Flow 1:

Average throughput: 171.23 Mbit/s

95th percentile per-packet one-way delay: 64.891 ms

Loss rate: 0.68%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-09 07:54:57

End at: 2018-01-09 07:55:27

Below is generated by plot.py at 2018-01-09 10:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.32 Mbit/s

95th percentile per-packet one-way delay: 62.348 ms

Loss rate: 0.72%

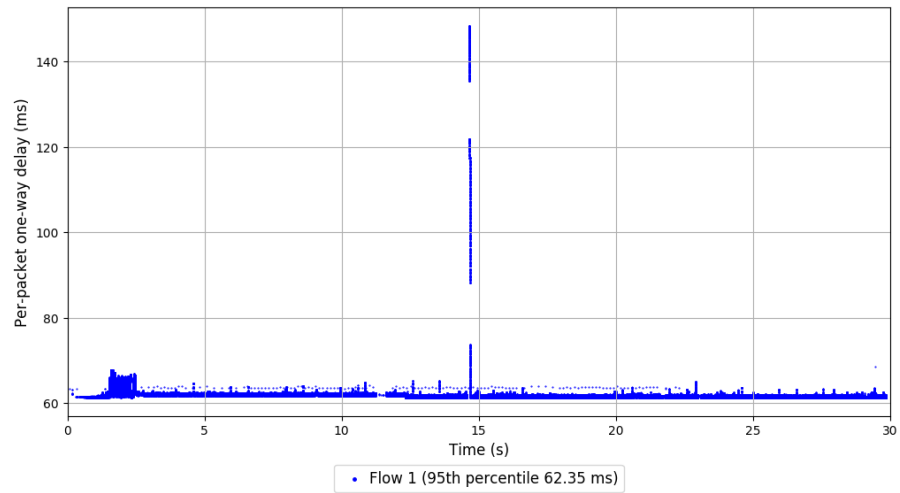
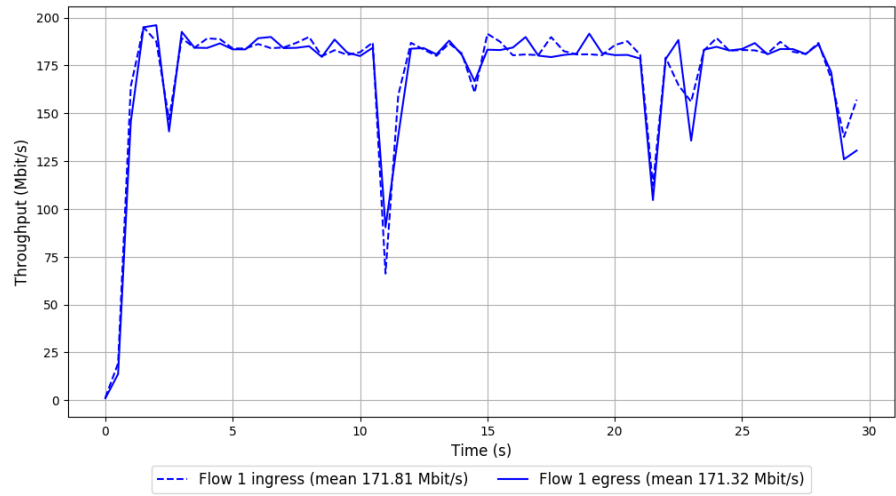
-- Flow 1:

Average throughput: 171.32 Mbit/s

95th percentile per-packet one-way delay: 62.348 ms

Loss rate: 0.72%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-09 08:06:29

End at: 2018-01-09 08:06:59

Below is generated by plot.py at 2018-01-09 10:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.72 Mbit/s

95th percentile per-packet one-way delay: 66.196 ms

Loss rate: 0.73%

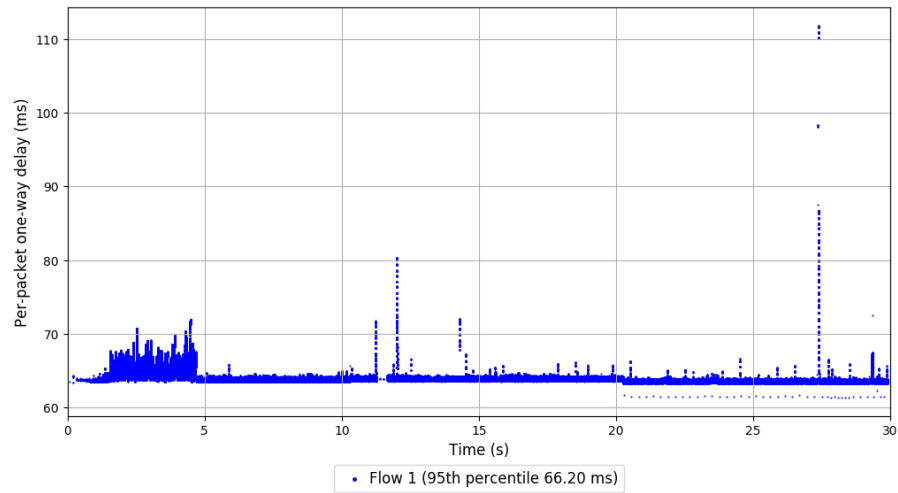
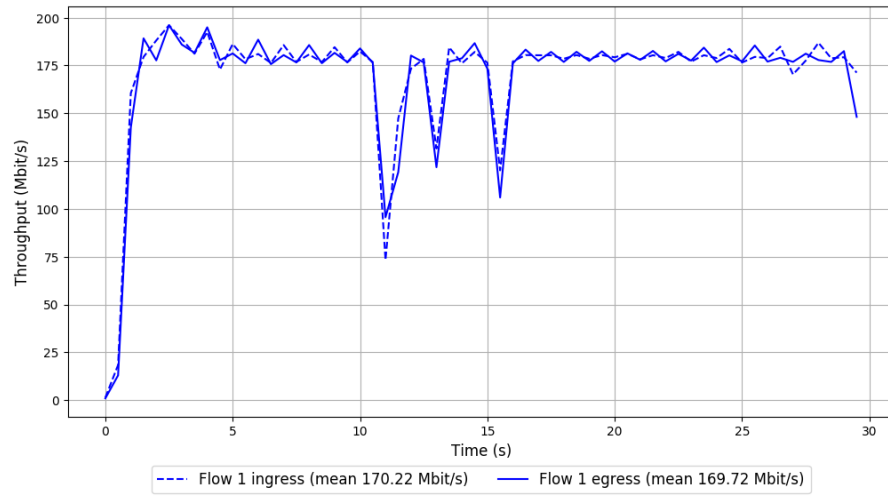
-- Flow 1:

Average throughput: 169.72 Mbit/s

95th percentile per-packet one-way delay: 66.196 ms

Loss rate: 0.73%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-09 08:17:09

End at: 2018-01-09 08:17:39

Below is generated by plot.py at 2018-01-09 10:35:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.87 Mbit/s

95th percentile per-packet one-way delay: 63.919 ms

Loss rate: 0.44%

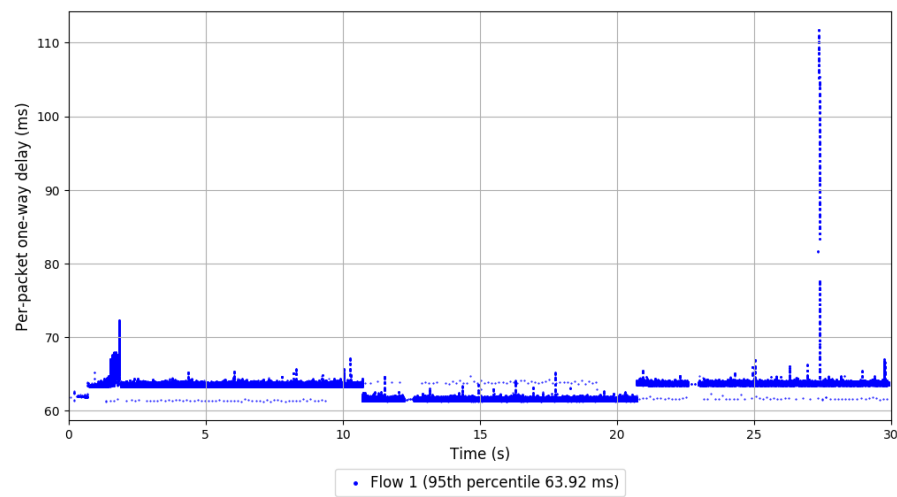
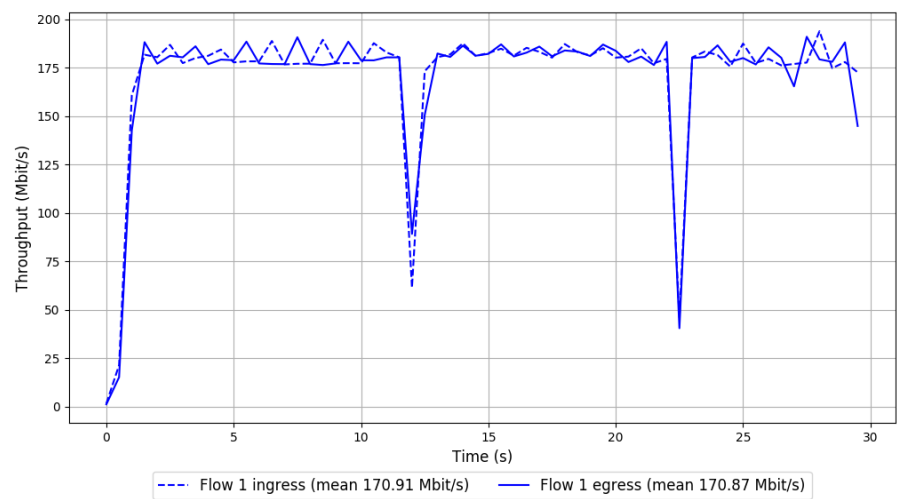
-- Flow 1:

Average throughput: 170.87 Mbit/s

95th percentile per-packet one-way delay: 63.919 ms

Loss rate: 0.44%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-09 08:28:00

End at: 2018-01-09 08:28:30

Below is generated by plot.py at 2018-01-09 10:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.99 Mbit/s

95th percentile per-packet one-way delay: 66.677 ms

Loss rate: 0.44%

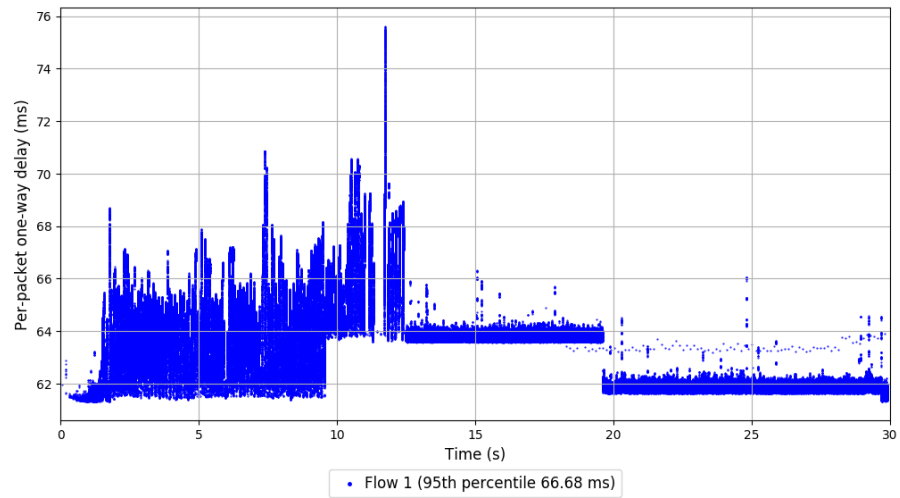
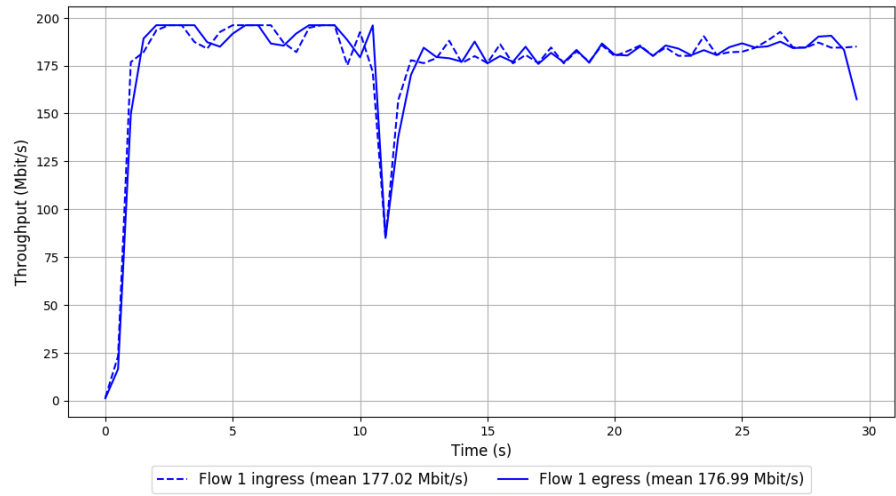
-- Flow 1:

Average throughput: 176.99 Mbit/s

95th percentile per-packet one-way delay: 66.677 ms

Loss rate: 0.44%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-09 06:43:37

End at: 2018-01-09 06:44:07

Below is generated by plot.py at 2018-01-09 10:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.82 Mbit/s

95th percentile per-packet one-way delay: 70.183 ms

Loss rate: 0.31%

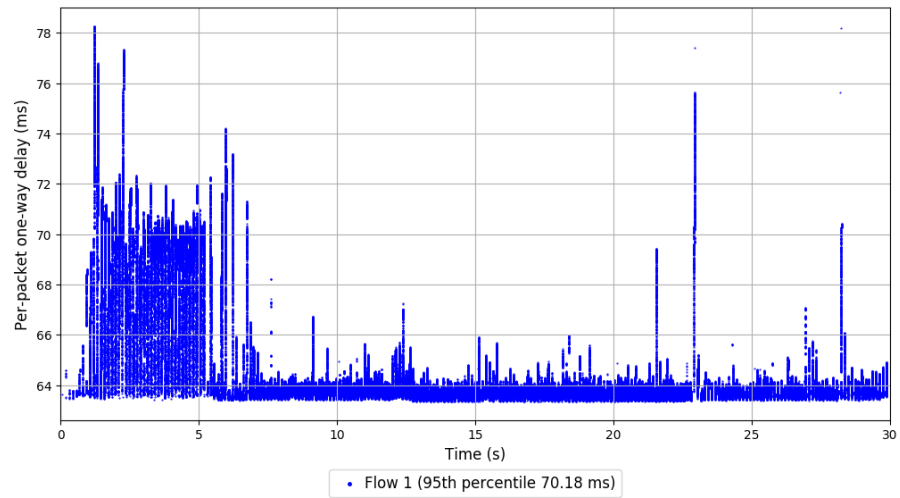
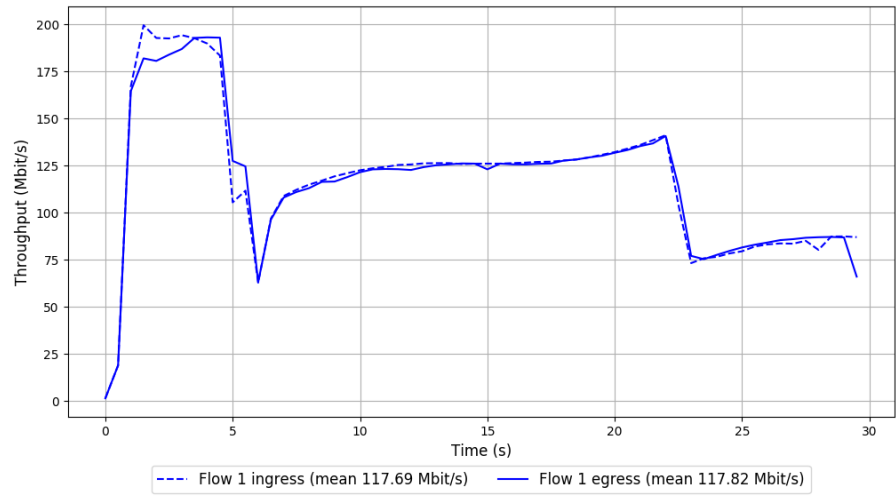
-- Flow 1:

Average throughput: 117.82 Mbit/s

95th percentile per-packet one-way delay: 70.183 ms

Loss rate: 0.31%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-09 06:54:45

End at: 2018-01-09 06:55:15

Below is generated by plot.py at 2018-01-09 10:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.03 Mbit/s

95th percentile per-packet one-way delay: 70.696 ms

Loss rate: 0.34%

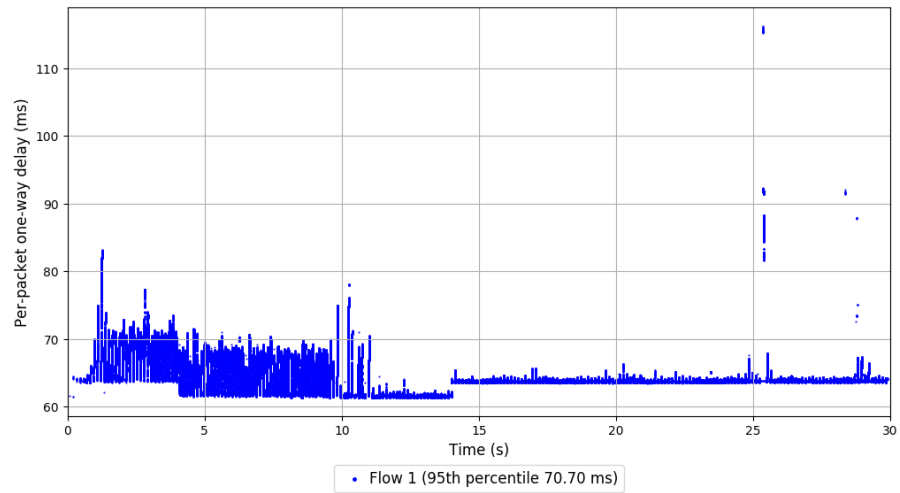
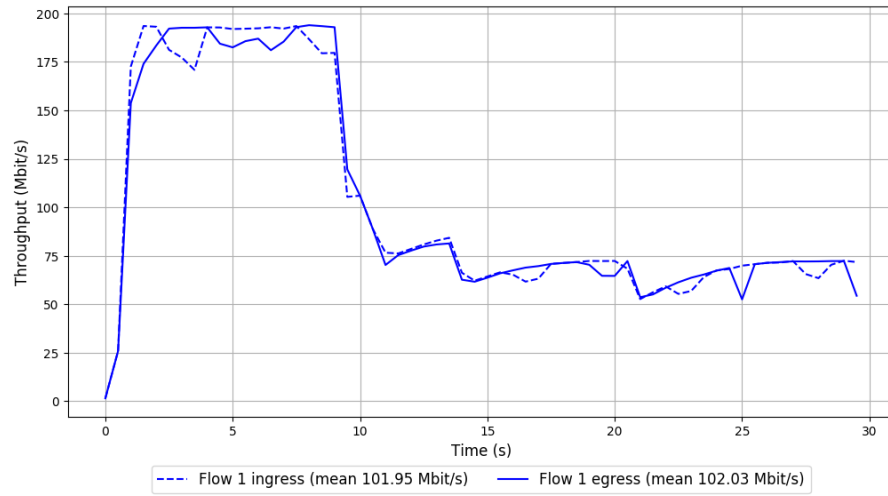
-- Flow 1:

Average throughput: 102.03 Mbit/s

95th percentile per-packet one-way delay: 70.696 ms

Loss rate: 0.34%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-09 07:05:45

End at: 2018-01-09 07:06:15

Below is generated by plot.py at 2018-01-09 10:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 74.606 ms

Loss rate: 0.93%

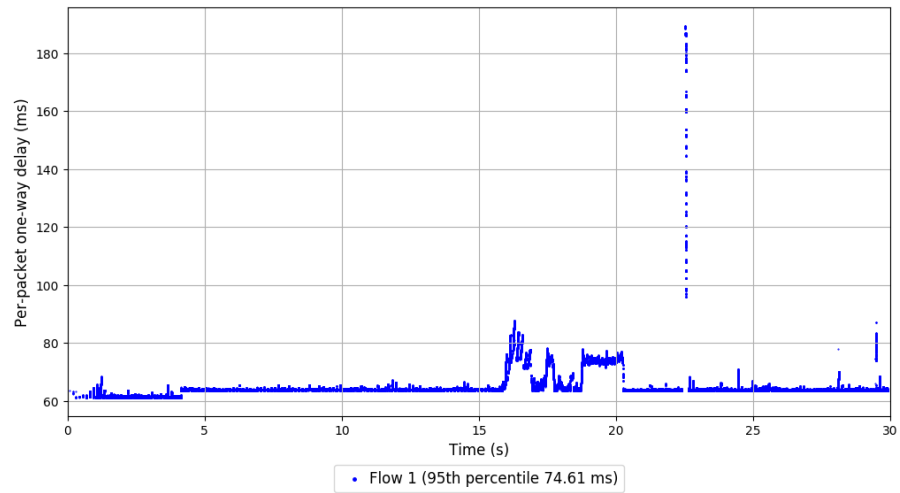
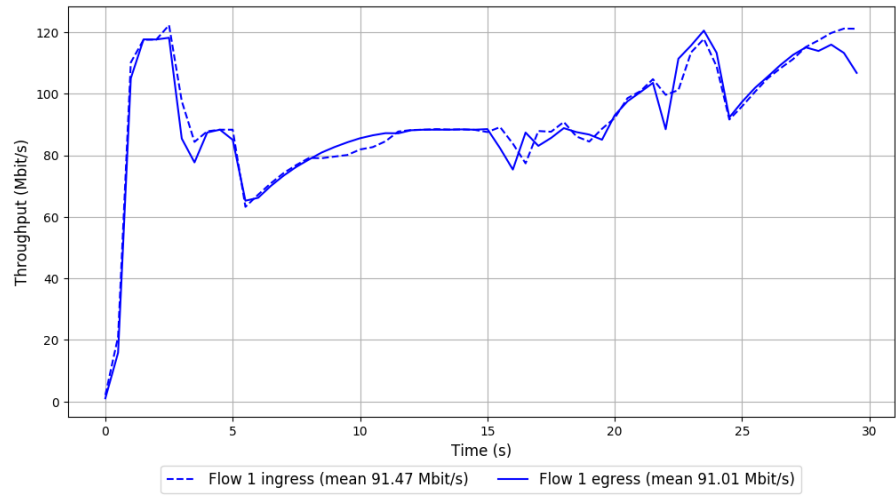
-- Flow 1:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 74.606 ms

Loss rate: 0.93%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-09 07:17:18

End at: 2018-01-09 07:17:48

Below is generated by plot.py at 2018-01-09 10:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.31 Mbit/s

95th percentile per-packet one-way delay: 70.663 ms

Loss rate: 0.40%

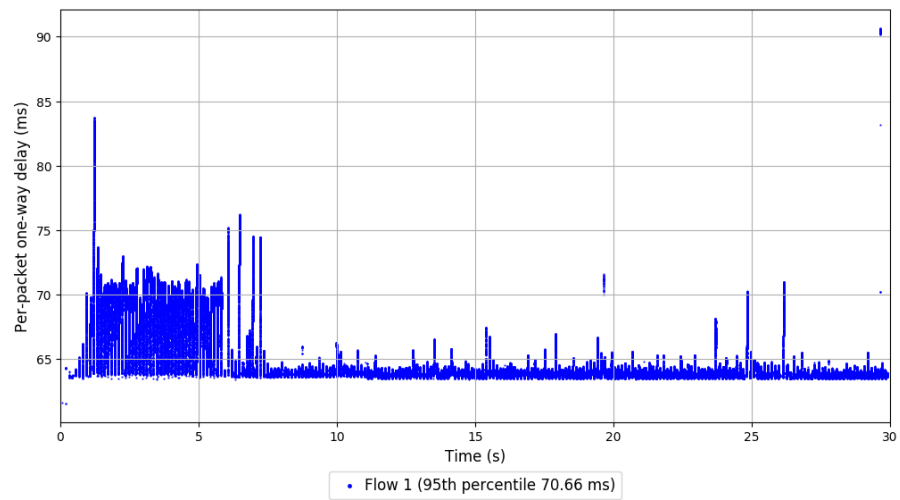
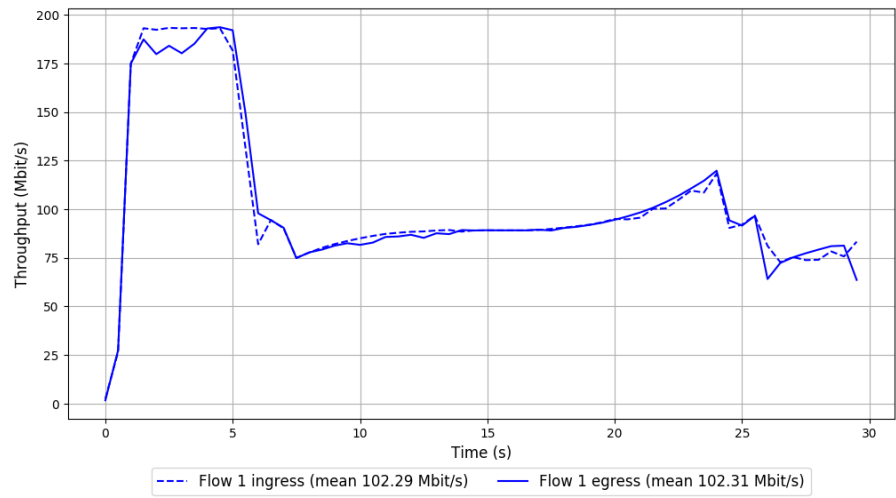
-- Flow 1:

Average throughput: 102.31 Mbit/s

95th percentile per-packet one-way delay: 70.663 ms

Loss rate: 0.40%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-09 07:29:01

End at: 2018-01-09 07:29:31

Below is generated by plot.py at 2018-01-09 10:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.99 Mbit/s

95th percentile per-packet one-way delay: 69.429 ms

Loss rate: 1.28%

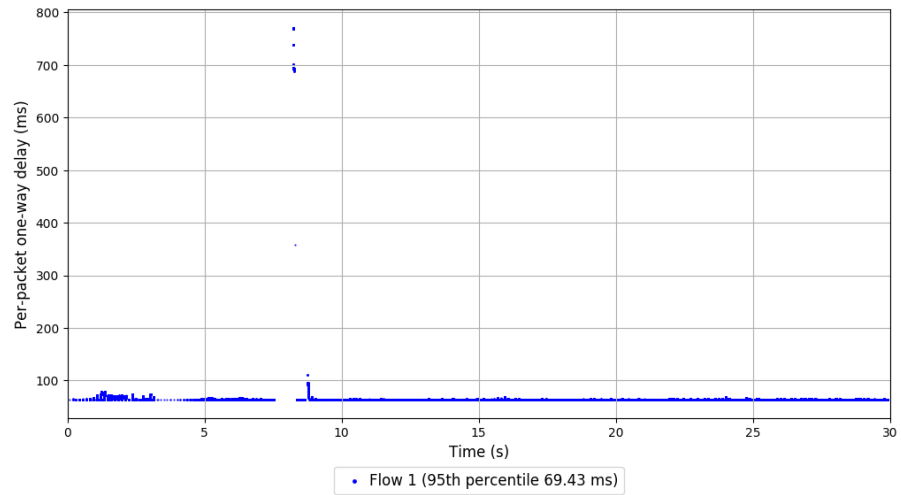
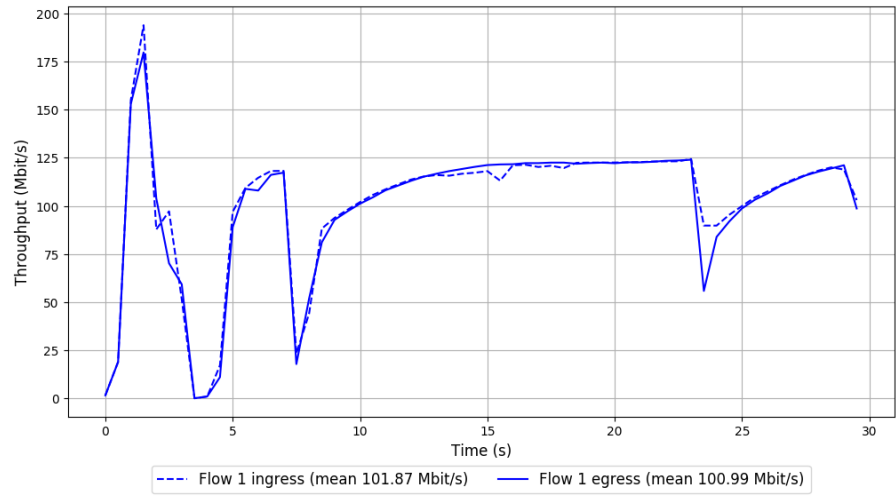
-- Flow 1:

Average throughput: 100.99 Mbit/s

95th percentile per-packet one-way delay: 69.429 ms

Loss rate: 1.28%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-09 07:40:44

End at: 2018-01-09 07:41:14

Below is generated by plot.py at 2018-01-09 10:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 68.565 ms

Loss rate: 1.20%

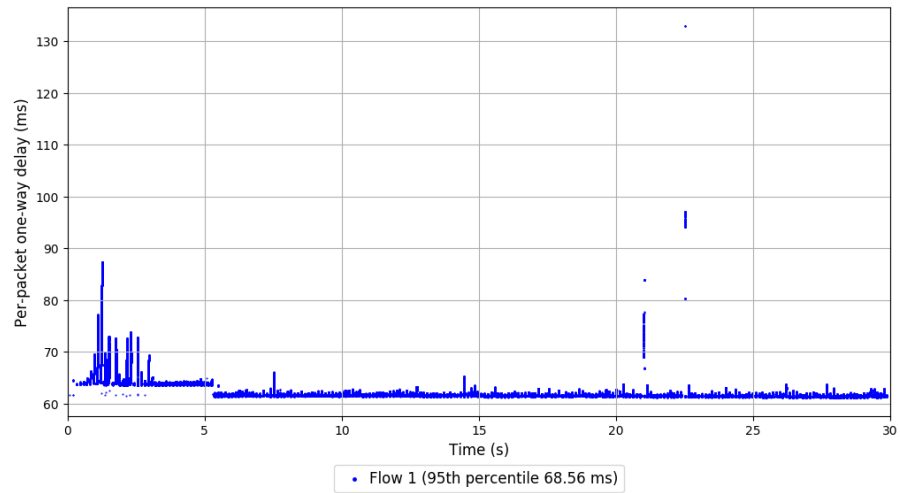
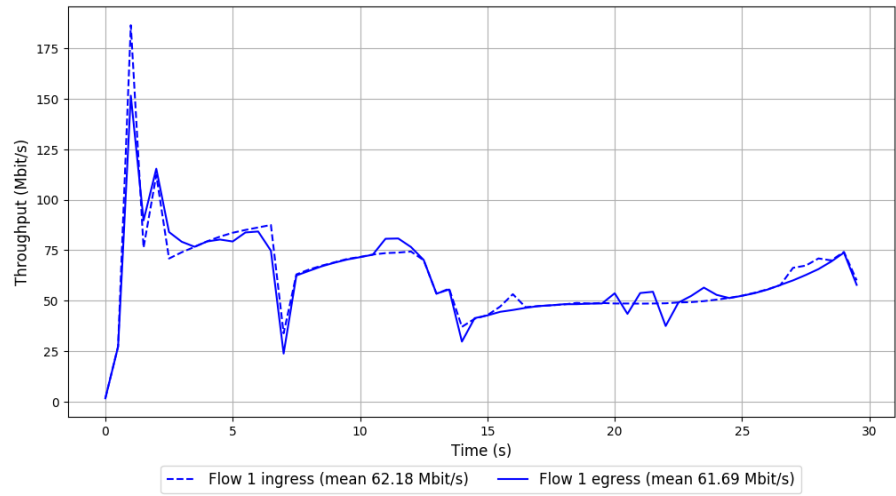
-- Flow 1:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 68.565 ms

Loss rate: 1.20%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-09 07:52:16

End at: 2018-01-09 07:52:46

Below is generated by plot.py at 2018-01-09 10:35:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.62 Mbit/s

95th percentile per-packet one-way delay: 70.327 ms

Loss rate: 0.28%

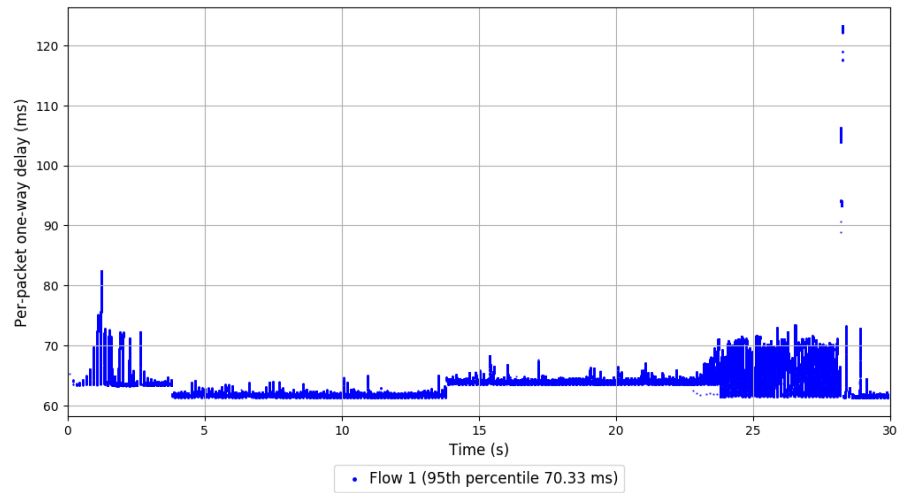
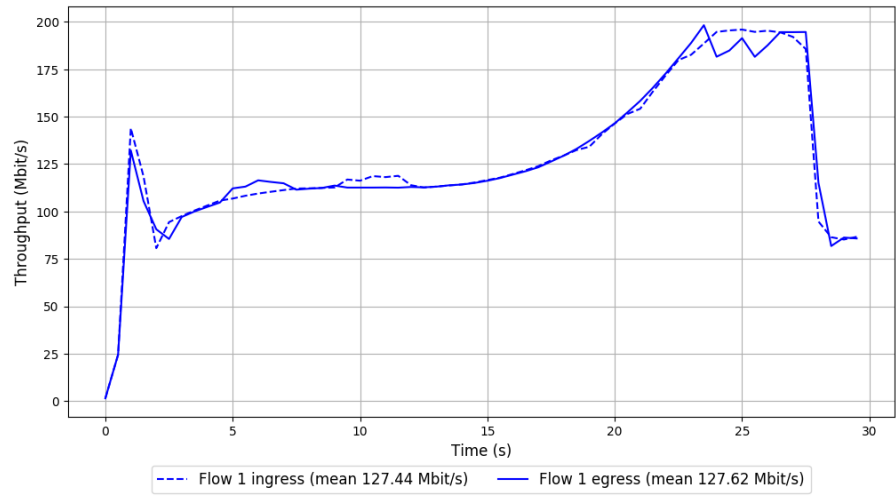
-- Flow 1:

Average throughput: 127.62 Mbit/s

95th percentile per-packet one-way delay: 70.327 ms

Loss rate: 0.28%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-09 08:03:50

End at: 2018-01-09 08:04:20

Below is generated by plot.py at 2018-01-09 10:35:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 67.424 ms

Loss rate: 0.86%

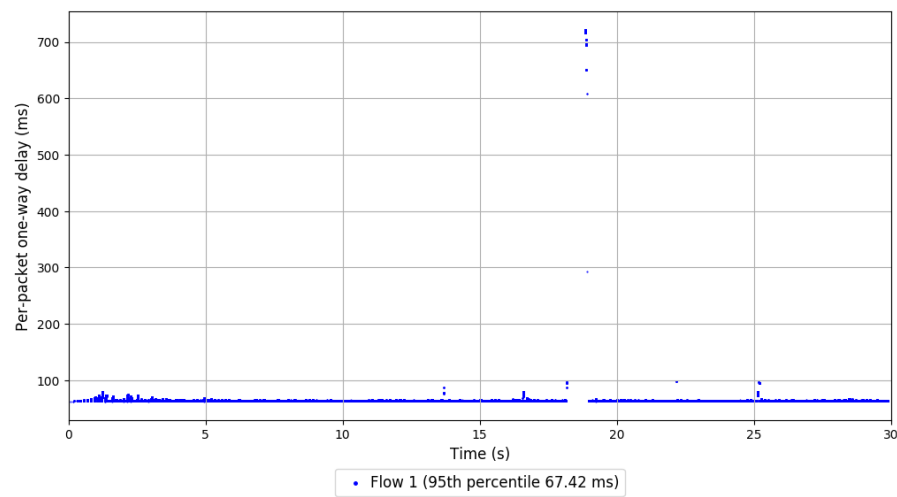
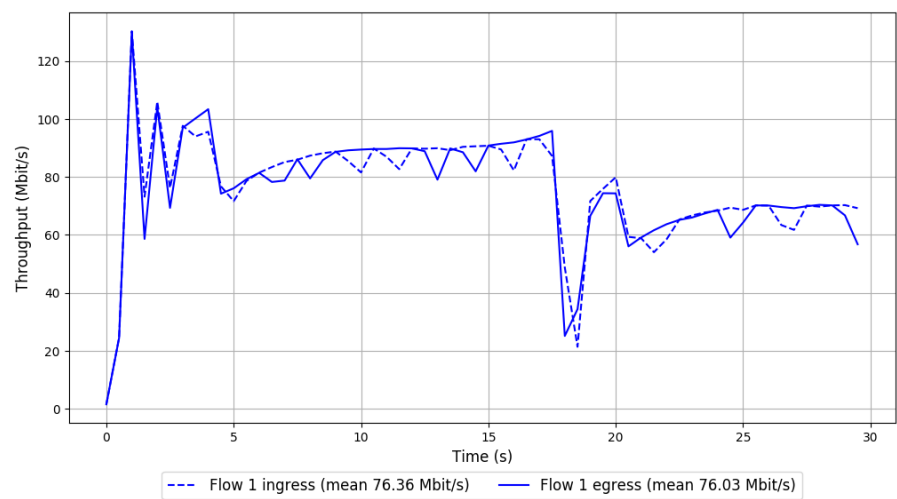
-- Flow 1:

Average throughput: 76.03 Mbit/s

95th percentile per-packet one-way delay: 67.424 ms

Loss rate: 0.86%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-09 08:14:29

End at: 2018-01-09 08:14:59

Below is generated by plot.py at 2018-01-09 10:35:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.69 Mbit/s

95th percentile per-packet one-way delay: 70.950 ms

Loss rate: 0.84%

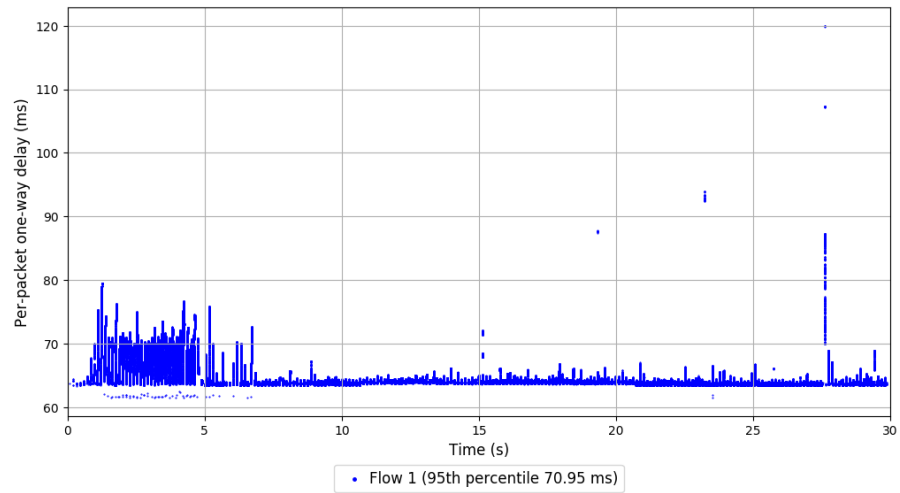
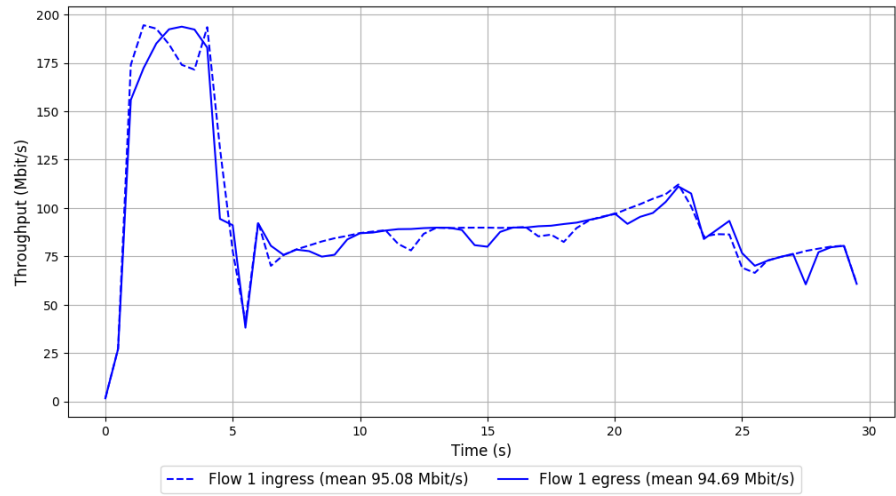
-- Flow 1:

Average throughput: 94.69 Mbit/s

95th percentile per-packet one-way delay: 70.950 ms

Loss rate: 0.84%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-09 08:25:19

End at: 2018-01-09 08:25:49

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.26 Mbit/s

95th percentile per-packet one-way delay: 70.275 ms

Loss rate: 0.39%

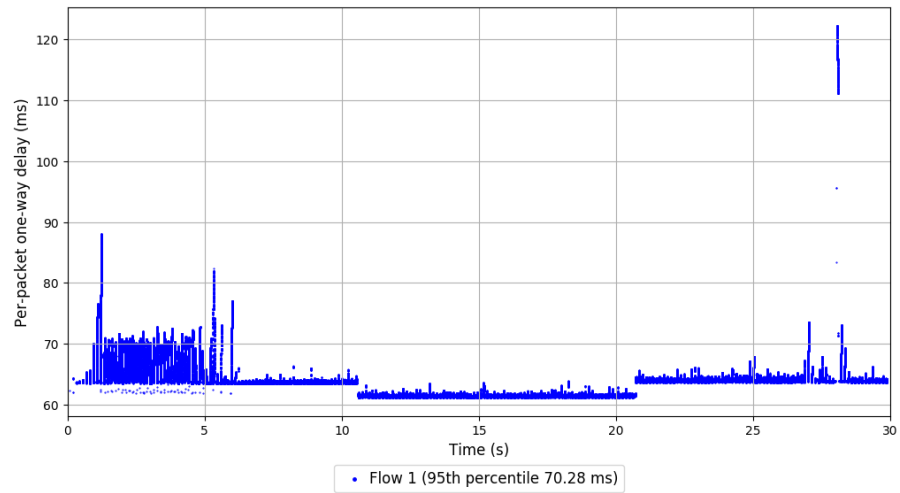
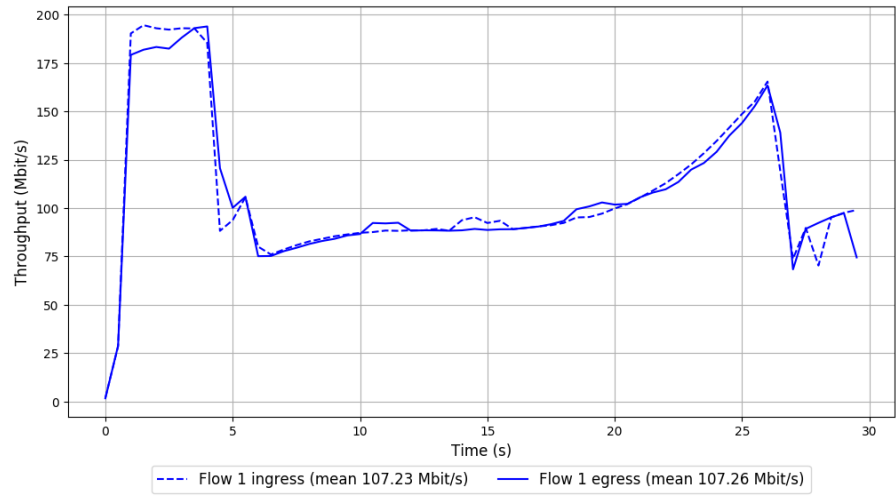
-- Flow 1:

Average throughput: 107.26 Mbit/s

95th percentile per-packet one-way delay: 70.275 ms

Loss rate: 0.39%

Run 10: Report of TCP Cubic — Data Link

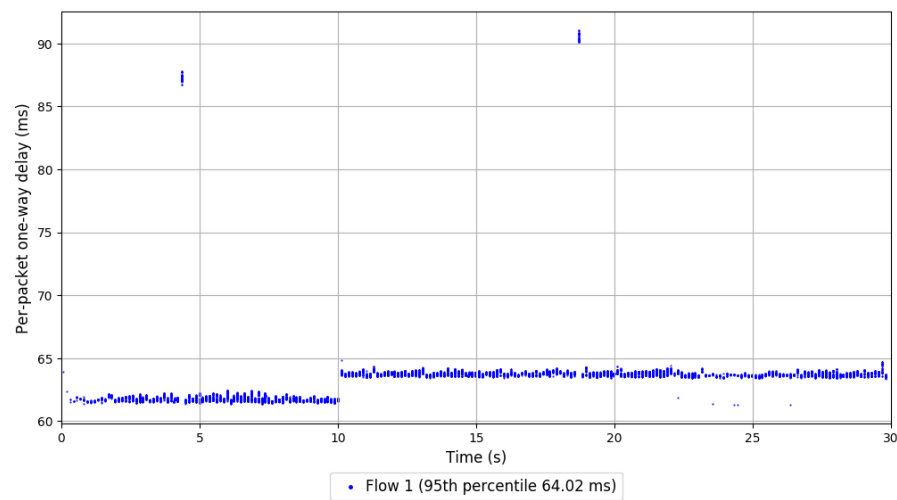
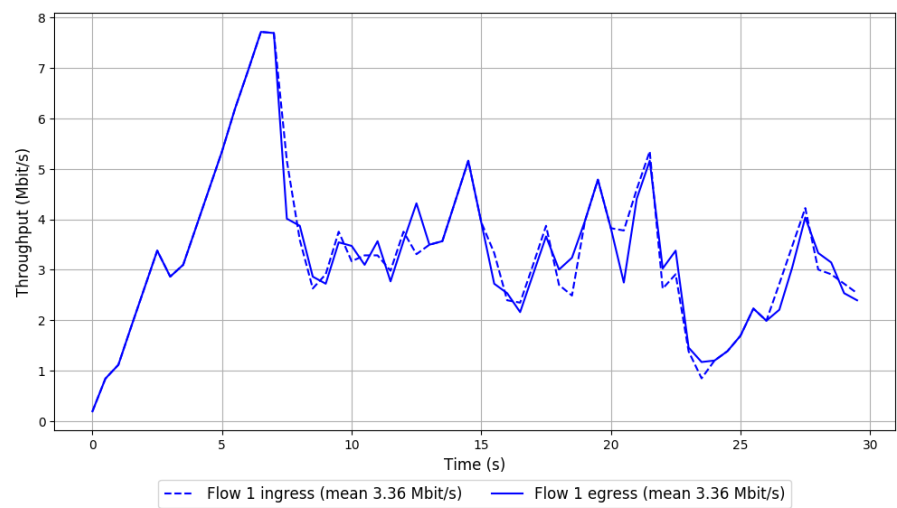


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-09 06:45:39
End at: 2018-01-09 06:46:09

# Below is generated by plot.py at 2018-01-09 10:36:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 64.024 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 3.36 Mbit/s
95th percentile per-packet one-way delay: 64.024 ms
Loss rate: 0.53%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-09 06:56:46

End at: 2018-01-09 06:57:16

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 64.282 ms

Loss rate: 1.46%

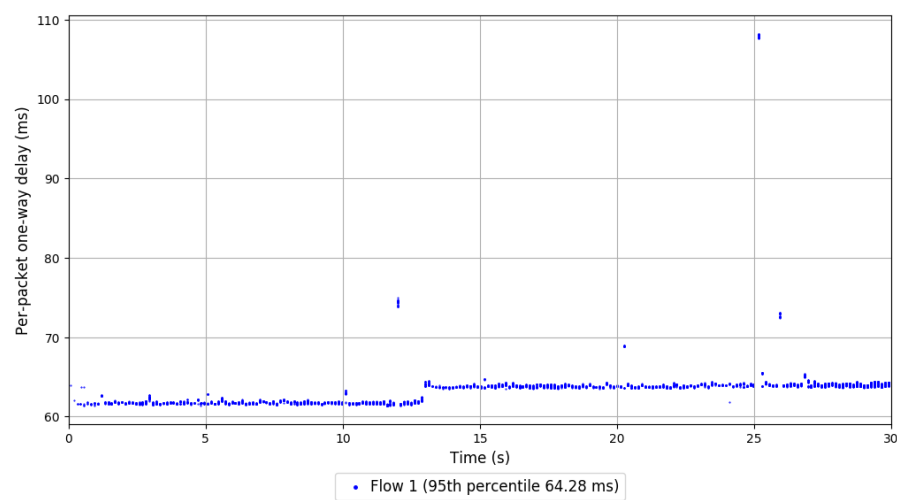
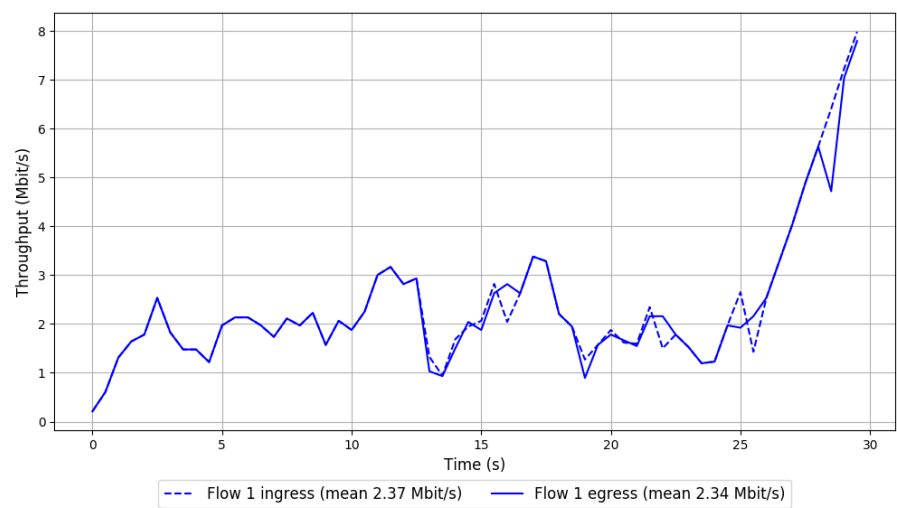
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 64.282 ms

Loss rate: 1.46%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-09 07:07:47

End at: 2018-01-09 07:08:17

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 64.200 ms

Loss rate: 1.75%

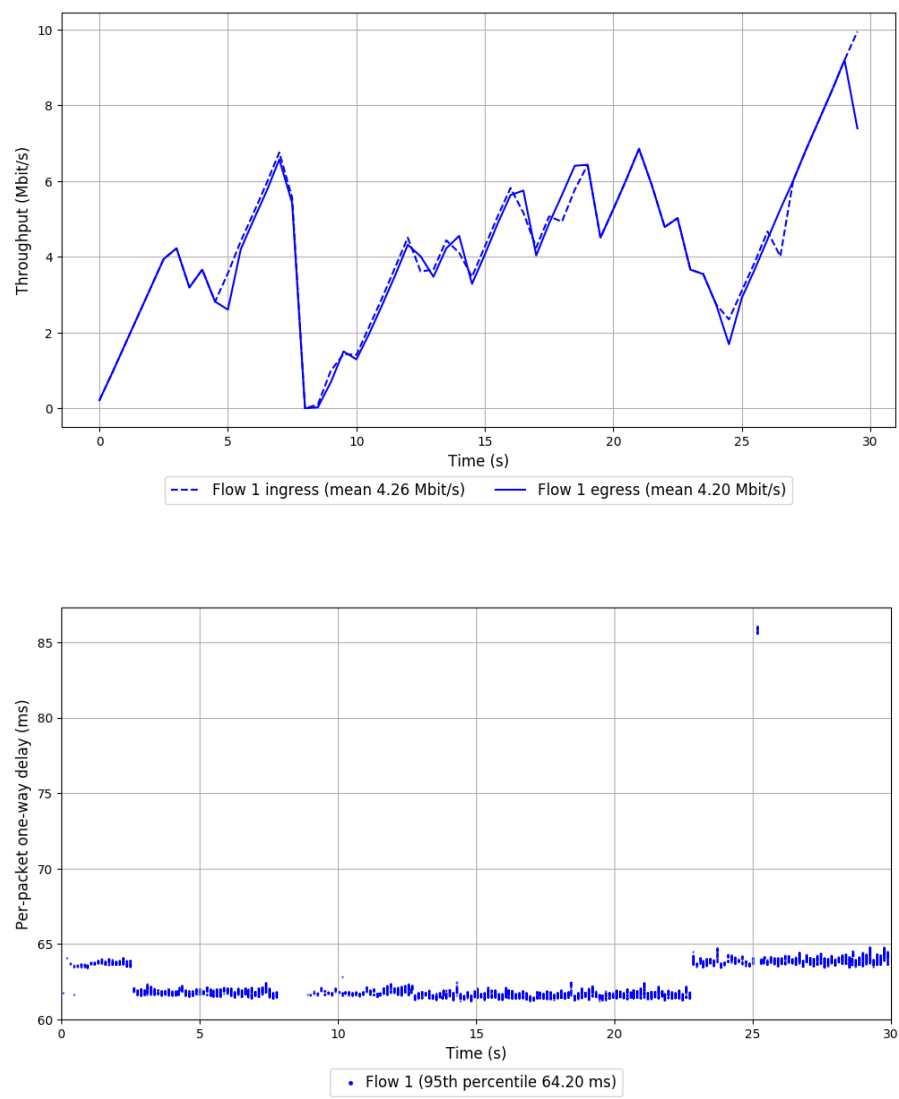
-- Flow 1:

Average throughput: 4.20 Mbit/s

95th percentile per-packet one-way delay: 64.200 ms

Loss rate: 1.75%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-09 07:19:21

End at: 2018-01-09 07:19:51

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 63.909 ms

Loss rate: 1.50%

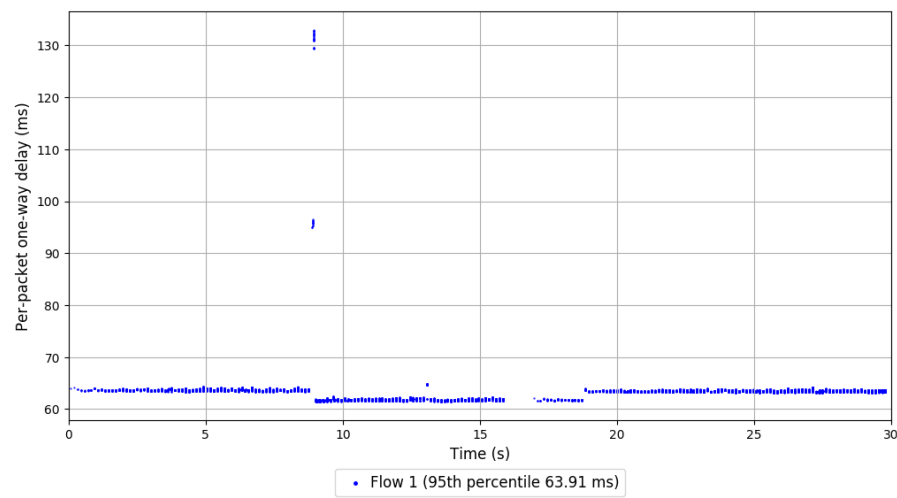
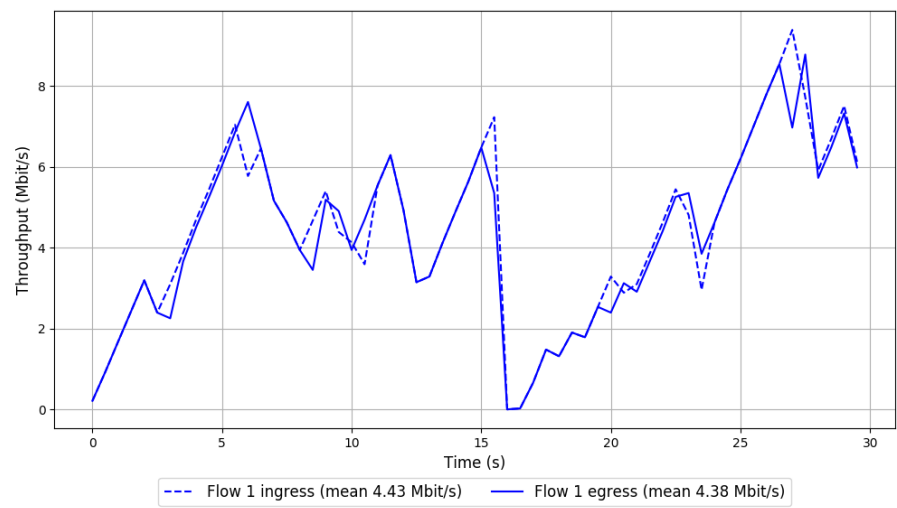
-- Flow 1:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 63.909 ms

Loss rate: 1.50%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-09 07:31:03

End at: 2018-01-09 07:31:33

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.53 Mbit/s

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

Loss rate: 0.50%

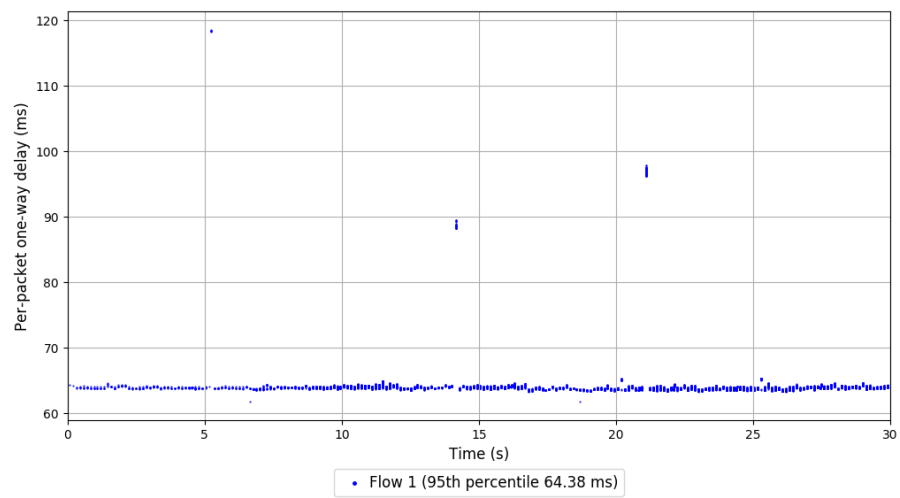
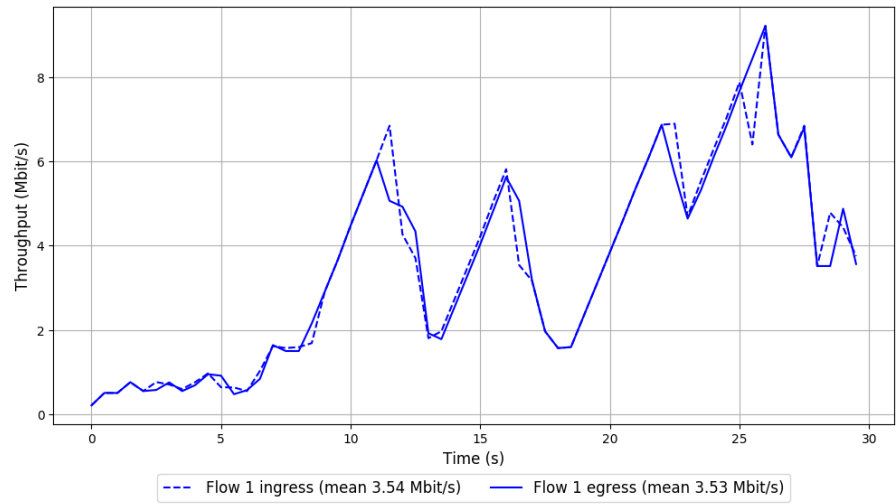
-- Flow 1:

Average throughput: 3.53 Mbit/s

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

Loss rate: 0.50%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-09 07:42:44

End at: 2018-01-09 07:43:14

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.50 Mbit/s

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

Loss rate: 0.53%

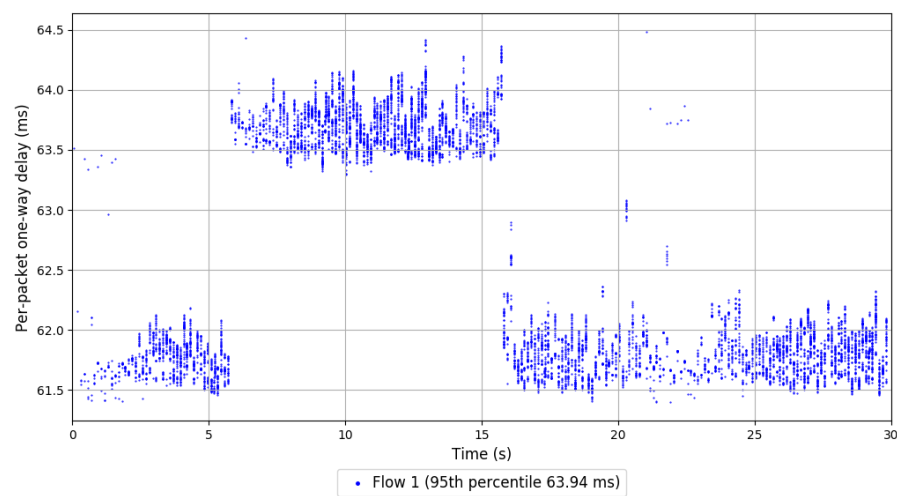
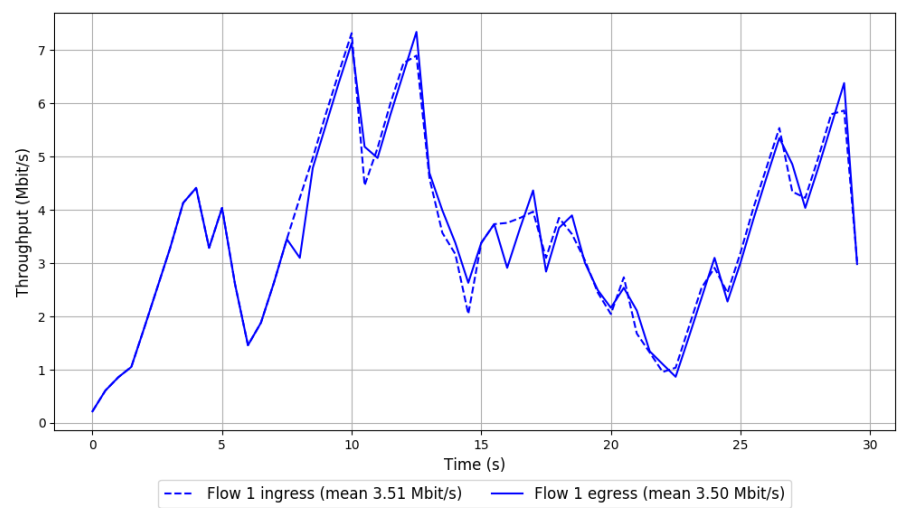
-- Flow 1:

Average throughput: 3.50 Mbit/s

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

Loss rate: 0.53%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-09 07:54:19

End at: 2018-01-09 07:54:49

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 64.287 ms

Loss rate: 1.35%

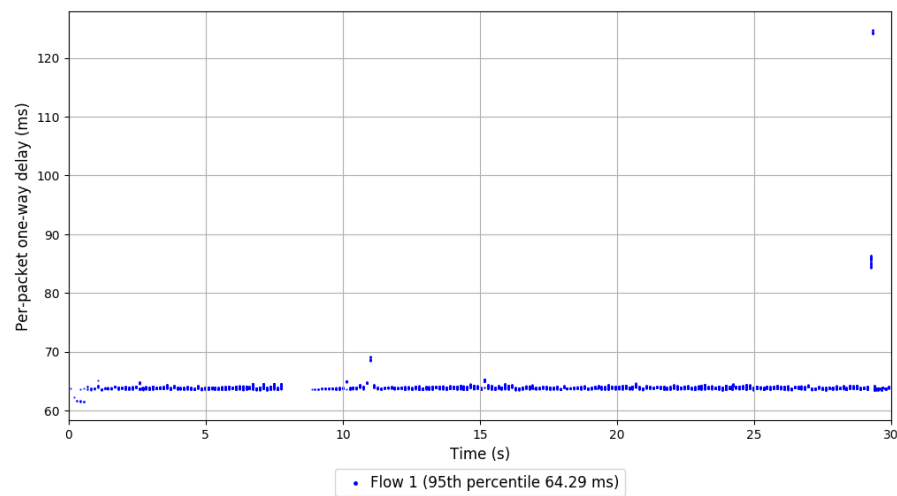
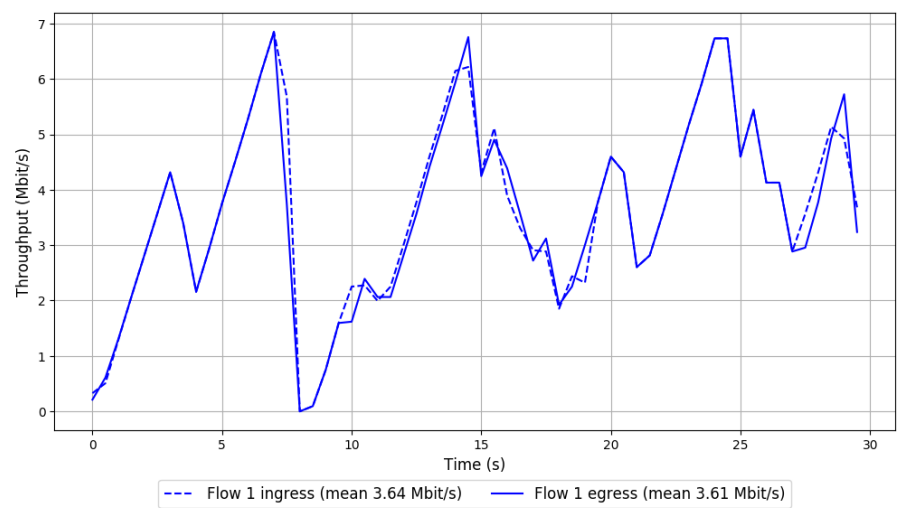
-- Flow 1:

Average throughput: 3.61 Mbit/s

95th percentile per-packet one-way delay: 64.287 ms

Loss rate: 1.35%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-09 08:05:51

End at: 2018-01-09 08:06:21

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 64.363 ms

Loss rate: 0.58%

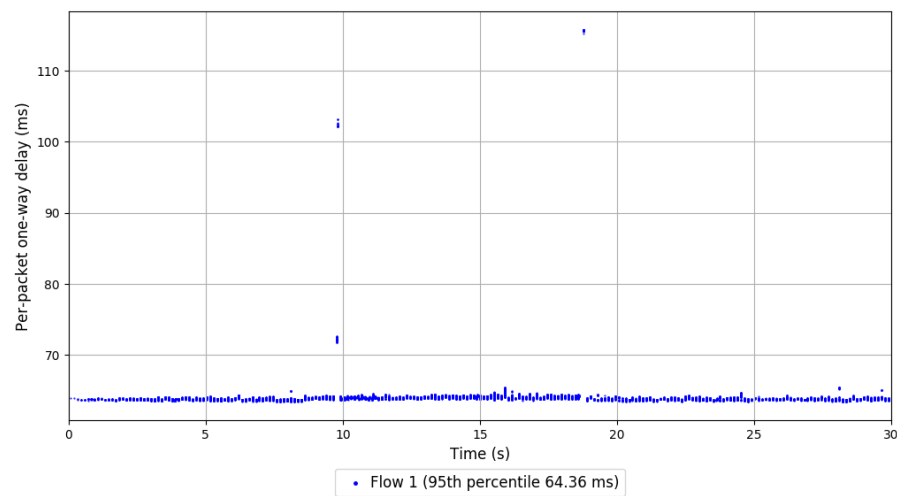
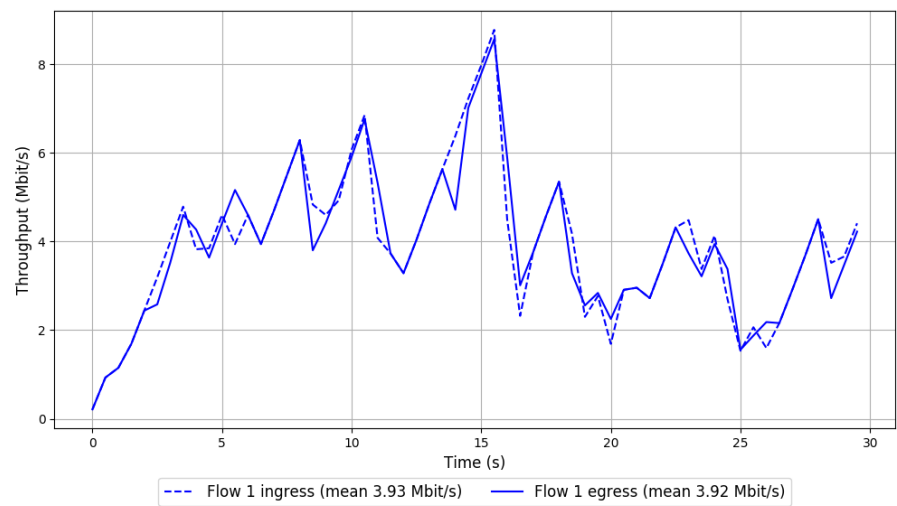
-- Flow 1:

Average throughput: 3.92 Mbit/s

95th percentile per-packet one-way delay: 64.363 ms

Loss rate: 0.58%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-09 08:16:30

End at: 2018-01-09 08:17:00

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 64.325 ms

Loss rate: 0.83%

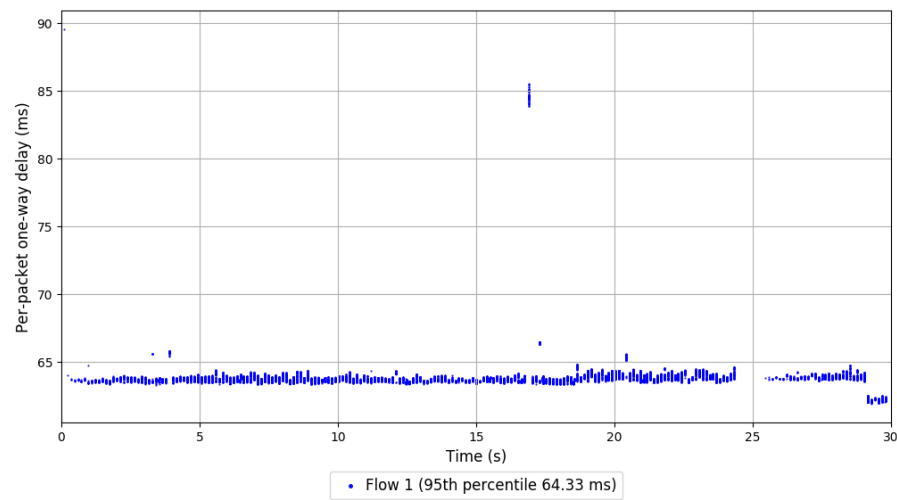
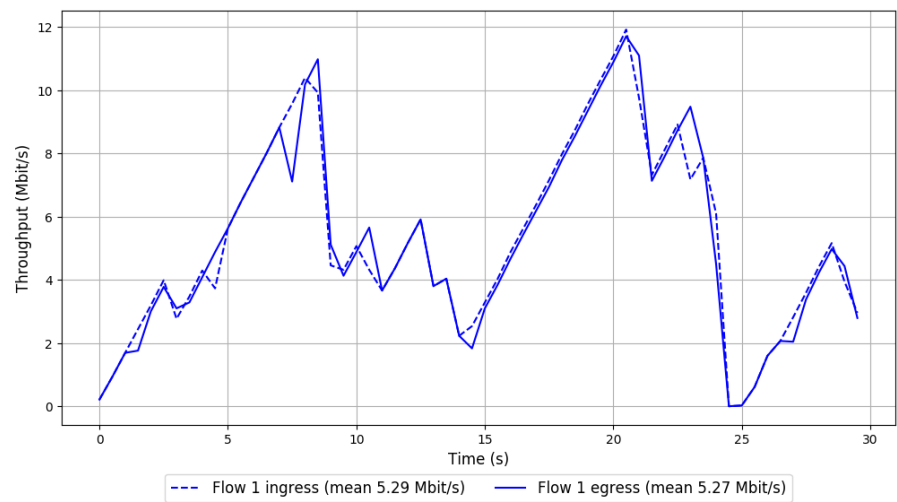
-- Flow 1:

Average throughput: 5.27 Mbit/s

95th percentile per-packet one-way delay: 64.325 ms

Loss rate: 0.83%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-09 08:27:21

End at: 2018-01-09 08:27:51

Below is generated by plot.py at 2018-01-09 10:36:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 64.405 ms

Loss rate: 0.41%

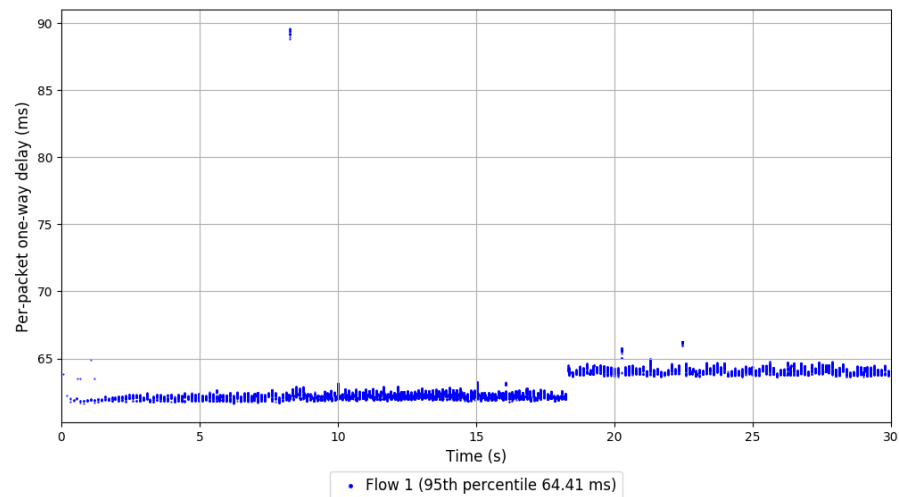
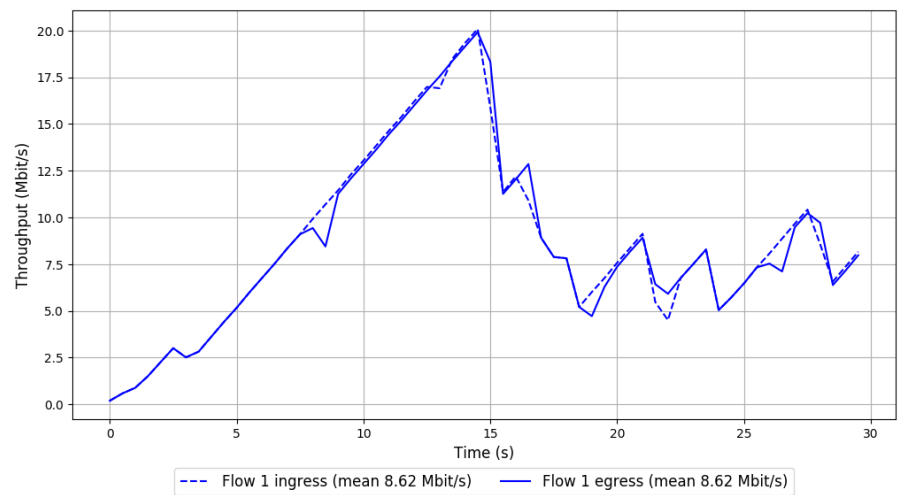
-- Flow 1:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 64.405 ms

Loss rate: 0.41%

Run 10: Report of LEDBAT — Data Link

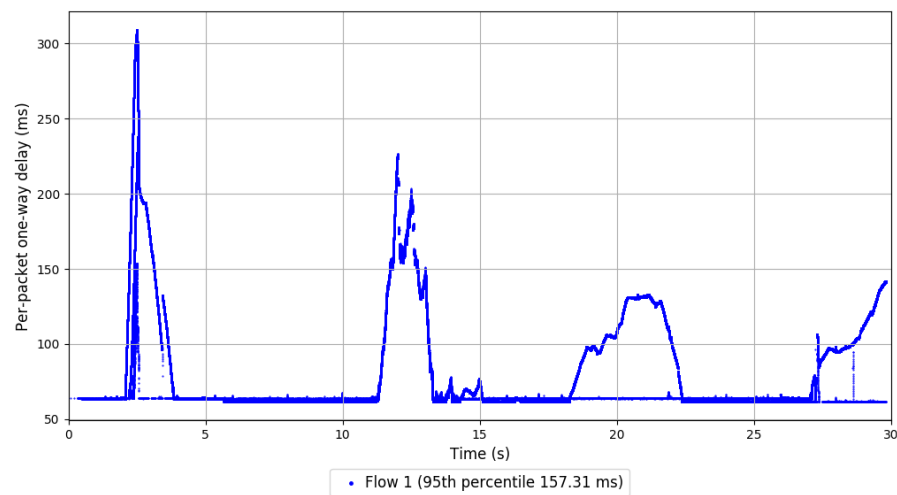
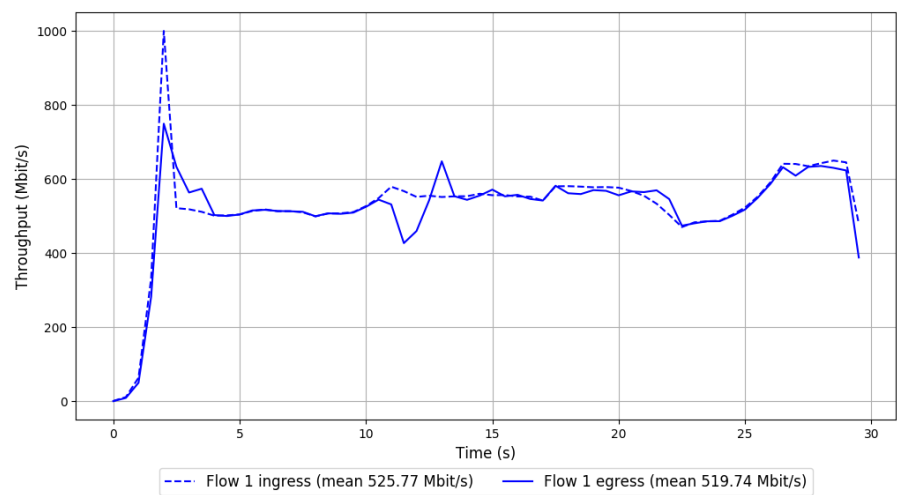


```
Run 1: Statistics of PCC

Start at: 2018-01-09 06:41:04
End at: 2018-01-09 06:41:34

# Below is generated by plot.py at 2018-01-09 10:43:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 519.74 Mbit/s
95th percentile per-packet one-way delay: 157.311 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 519.74 Mbit/s
95th percentile per-packet one-way delay: 157.311 ms
Loss rate: 1.56%
```

Run 1: Report of PCC — Data Link

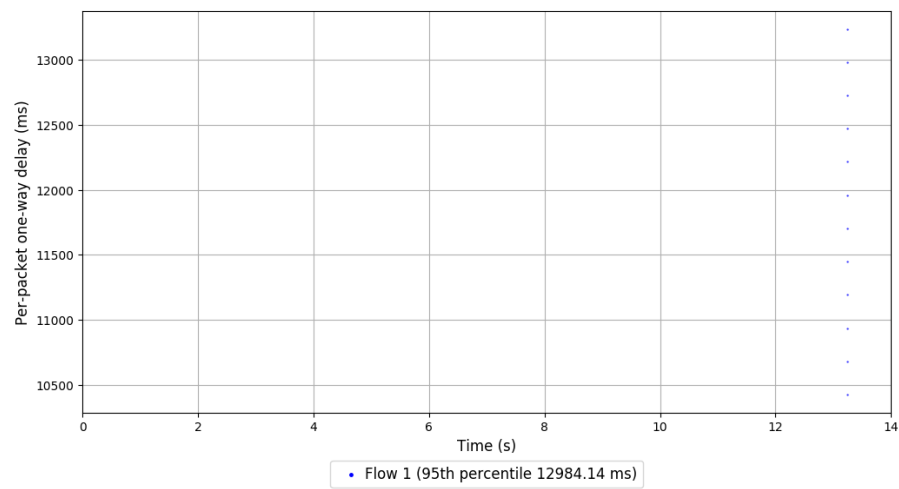
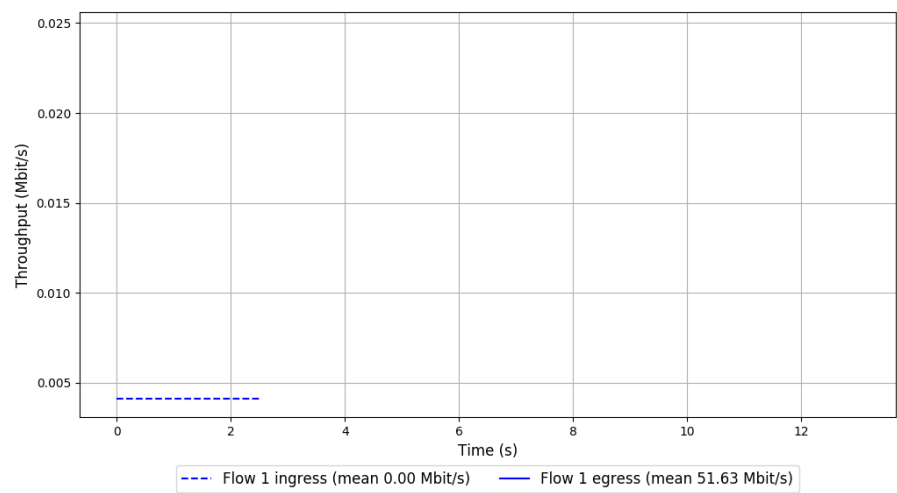


Run 2: Statistics of PCC

Start at: 2018-01-09 06:52:31

End at: 2018-01-09 06:53:01

Run 2: Report of PCC — Data Link

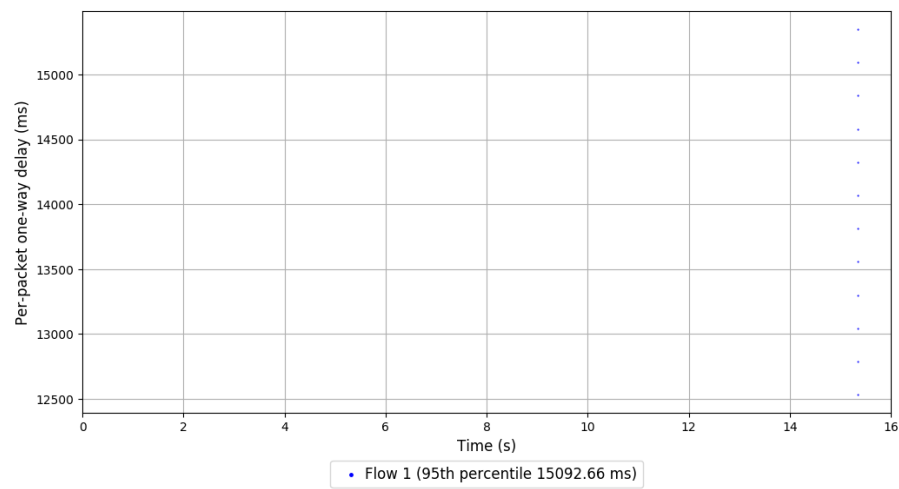
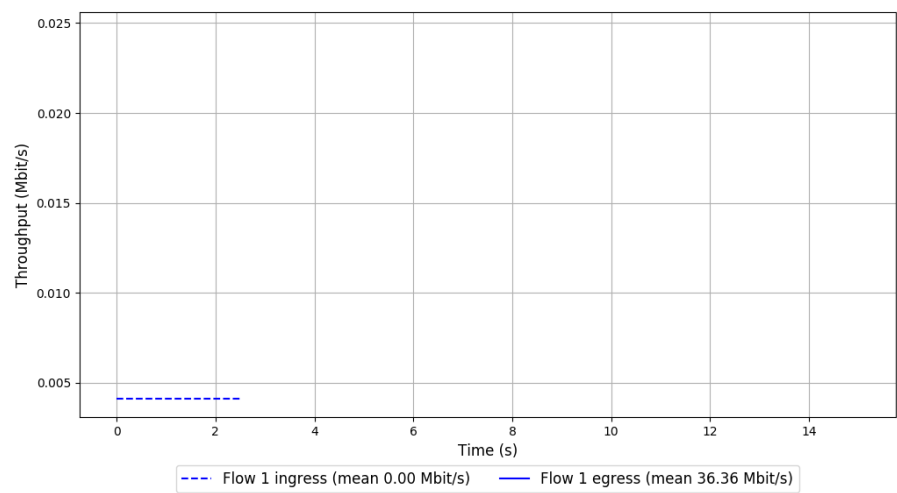


Run 3: Statistics of PCC

Start at: 2018-01-09 07:03:32

End at: 2018-01-09 07:04:02

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-09 07:14:43

End at: 2018-01-09 07:15:13

Below is generated by plot.py at 2018-01-09 10:44:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.25 Mbit/s

95th percentile per-packet one-way delay: 179.906 ms

Loss rate: 0.61%

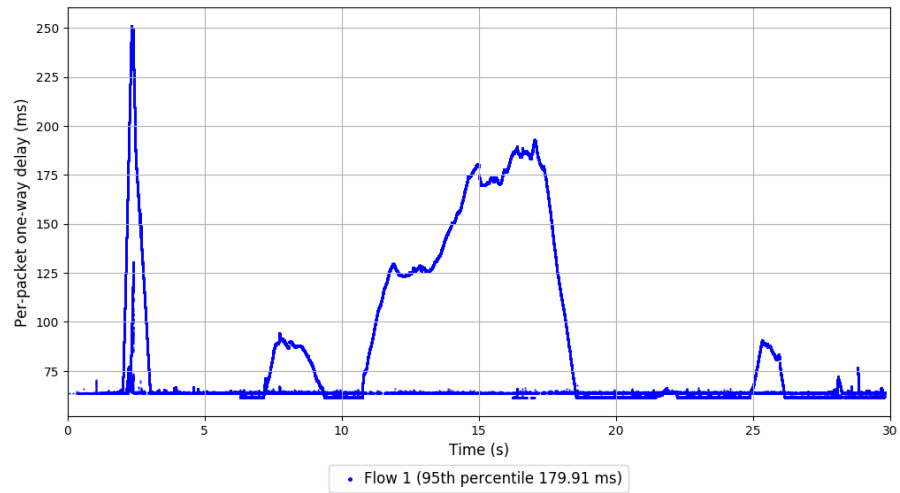
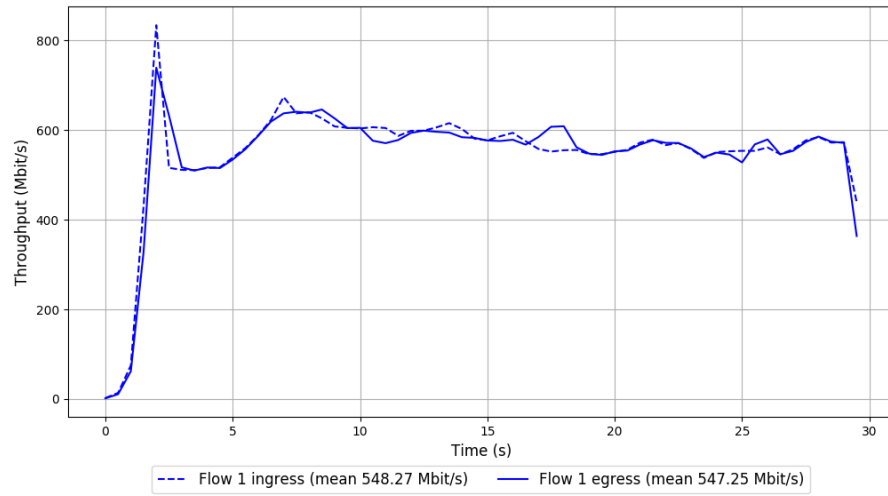
-- Flow 1:

Average throughput: 547.25 Mbit/s

95th percentile per-packet one-way delay: 179.906 ms

Loss rate: 0.61%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-09 07:26:26

End at: 2018-01-09 07:26:56

Below is generated by plot.py at 2018-01-09 10:44:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.92 Mbit/s

95th percentile per-packet one-way delay: 97.894 ms

Loss rate: 0.81%

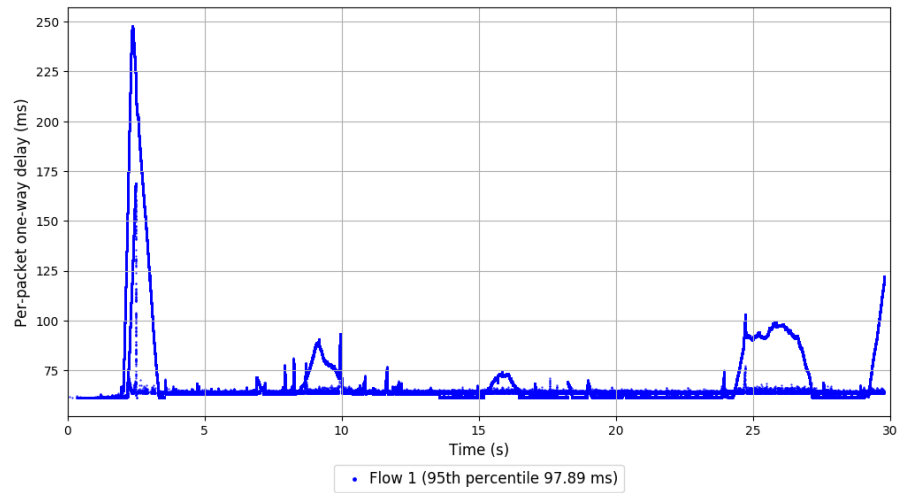
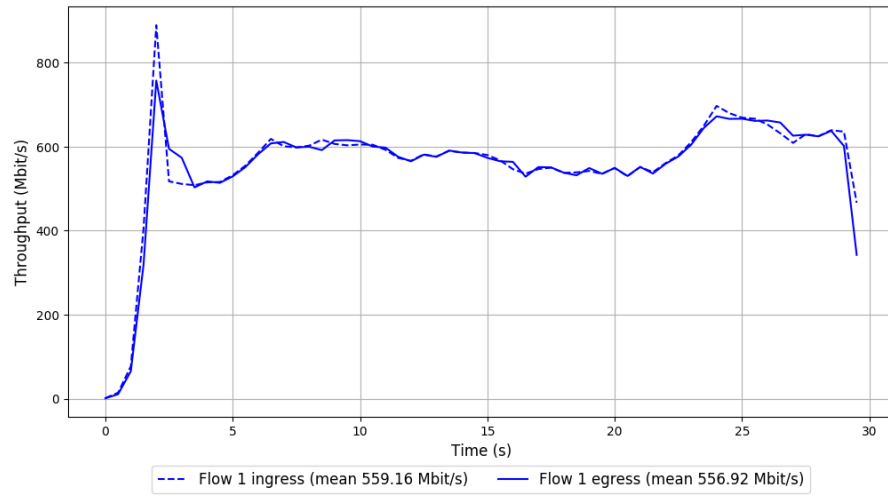
-- Flow 1:

Average throughput: 556.92 Mbit/s

95th percentile per-packet one-way delay: 97.894 ms

Loss rate: 0.81%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-09 07:38:15

End at: 2018-01-09 07:38:45

Below is generated by plot.py at 2018-01-09 10:44:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.43 Mbit/s

95th percentile per-packet one-way delay: 187.418 ms

Loss rate: 1.24%

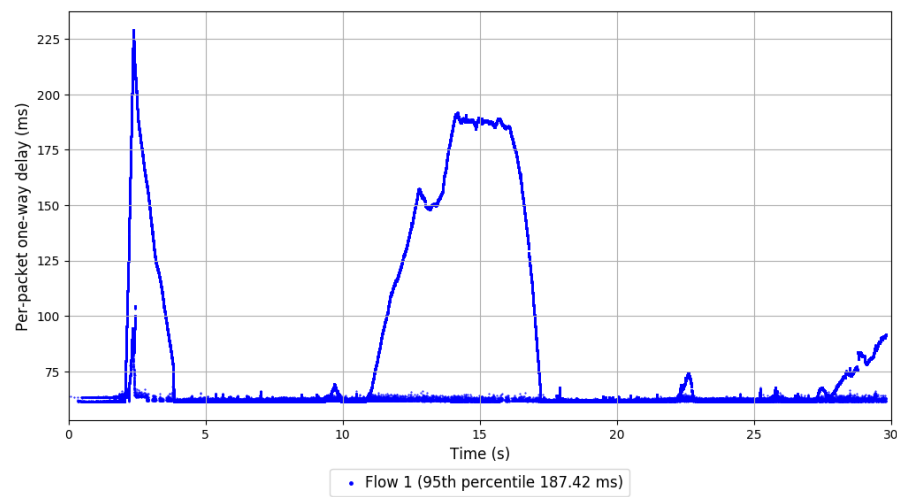
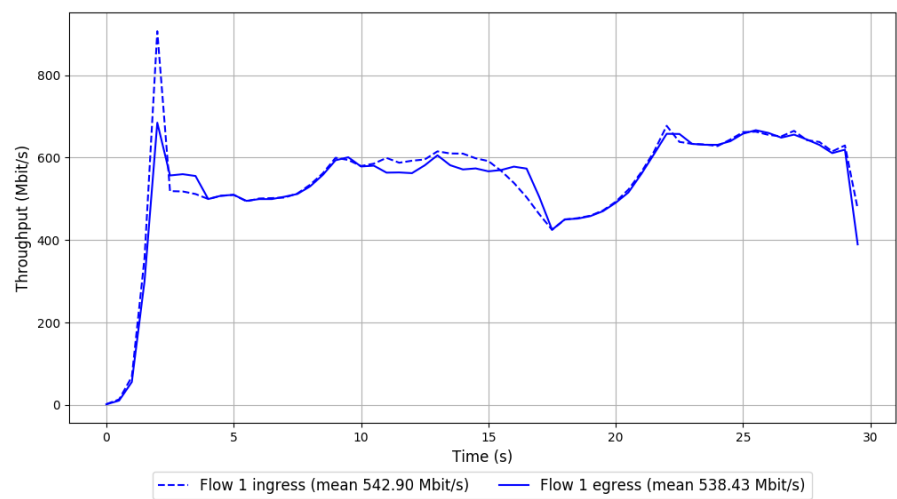
-- Flow 1:

Average throughput: 538.43 Mbit/s

95th percentile per-packet one-way delay: 187.418 ms

Loss rate: 1.24%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-09 07:49:43

End at: 2018-01-09 07:50:14

Below is generated by plot.py at 2018-01-09 10:44:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.61 Mbit/s

95th percentile per-packet one-way delay: 90.263 ms

Loss rate: 2.48%

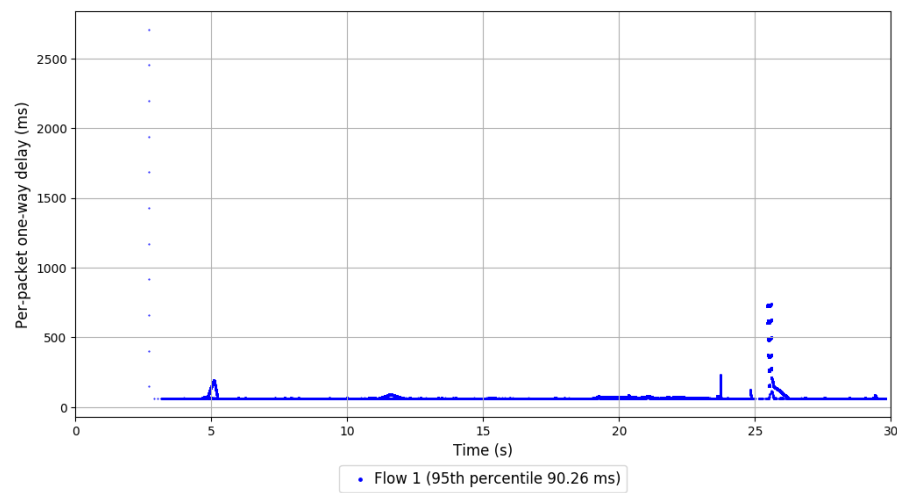
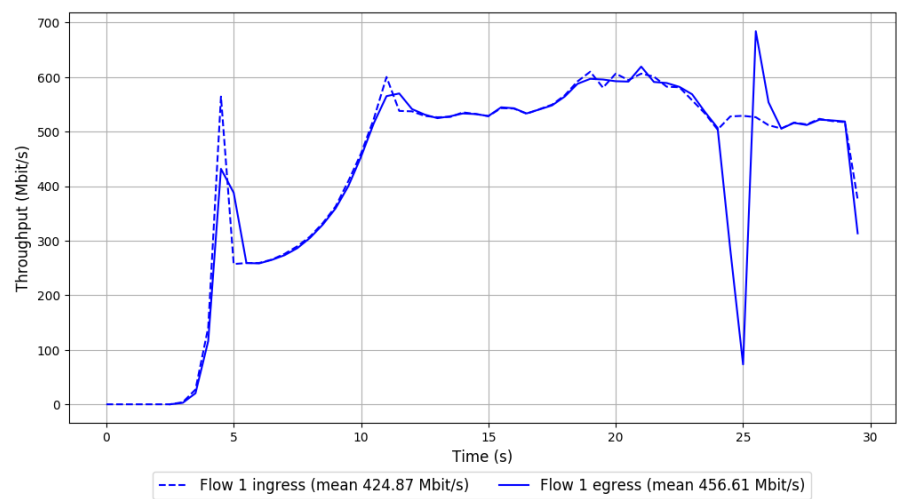
-- Flow 1:

Average throughput: 456.61 Mbit/s

95th percentile per-packet one-way delay: 90.263 ms

Loss rate: 2.48%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-09 08:01:22

End at: 2018-01-09 08:01:52

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.37 Mbit/s

95th percentile per-packet one-way delay: 191.685 ms

Loss rate: 1.72%

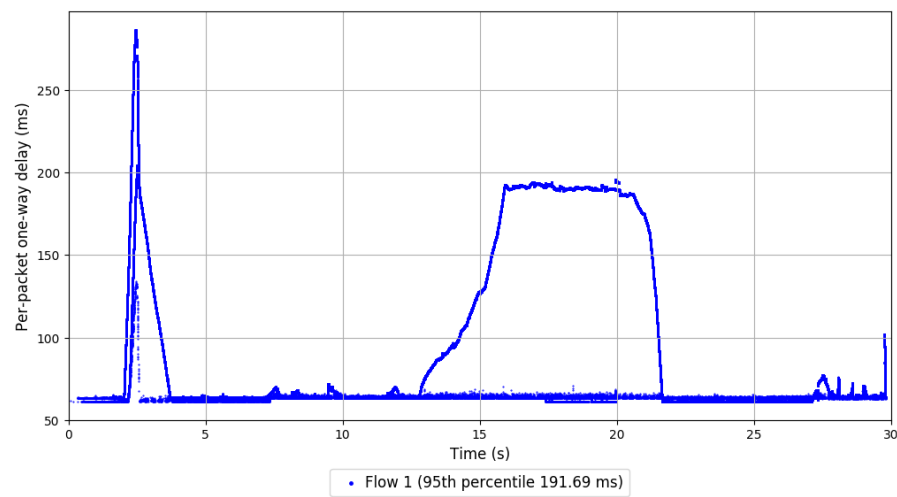
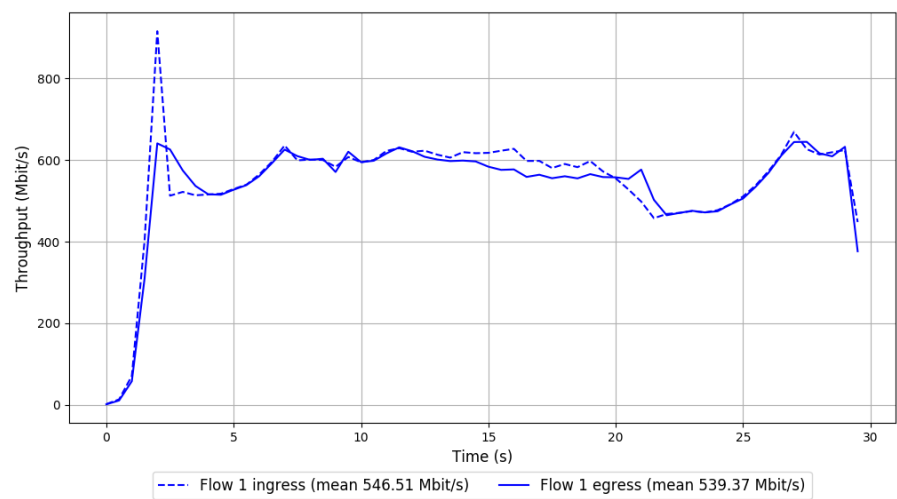
-- Flow 1:

Average throughput: 539.37 Mbit/s

95th percentile per-packet one-way delay: 191.685 ms

Loss rate: 1.72%

Run 8: Report of PCC — Data Link

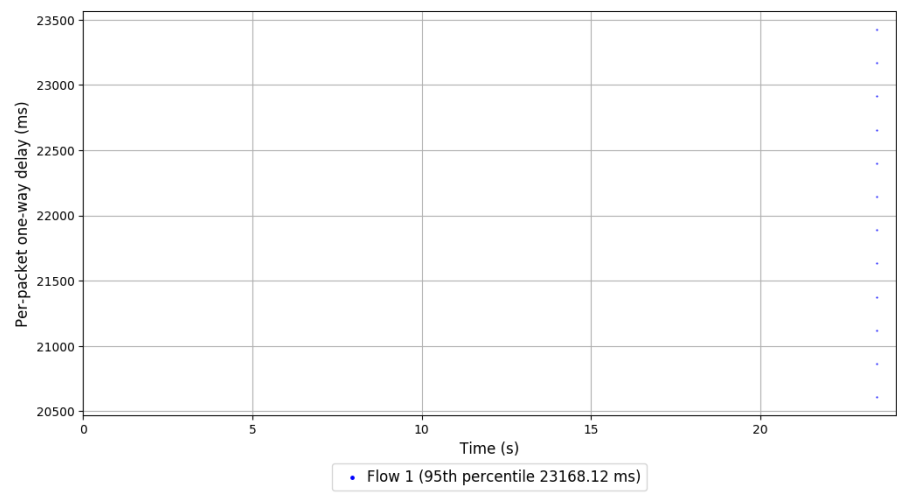
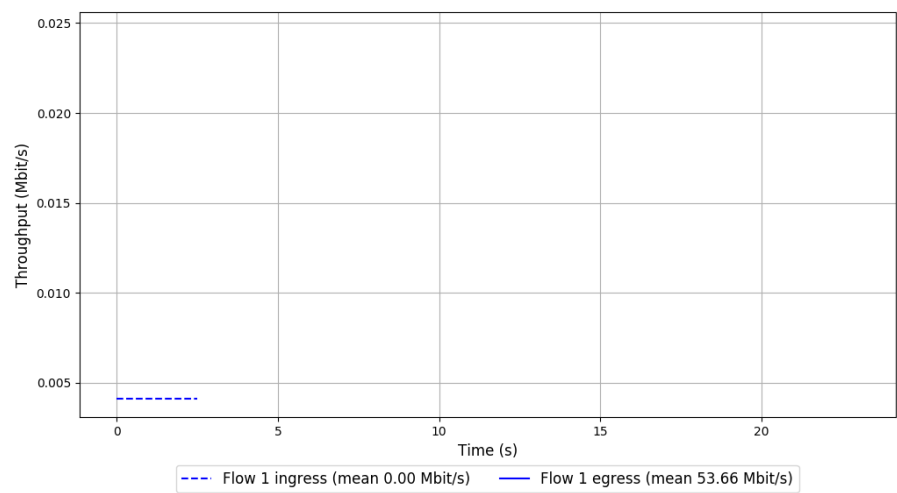


Run 9: Statistics of PCC

Start at: 2018-01-09 08:12:29

End at: 2018-01-09 08:12:59

Run 9: Report of PCC — Data Link

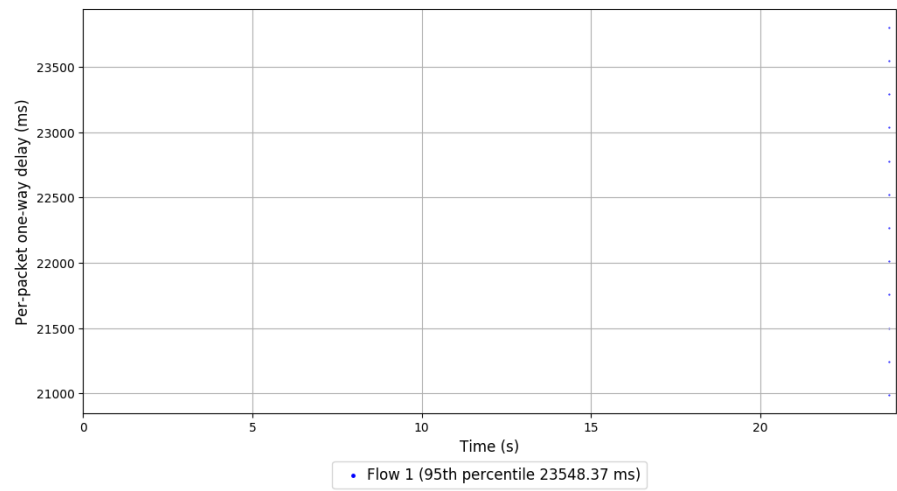
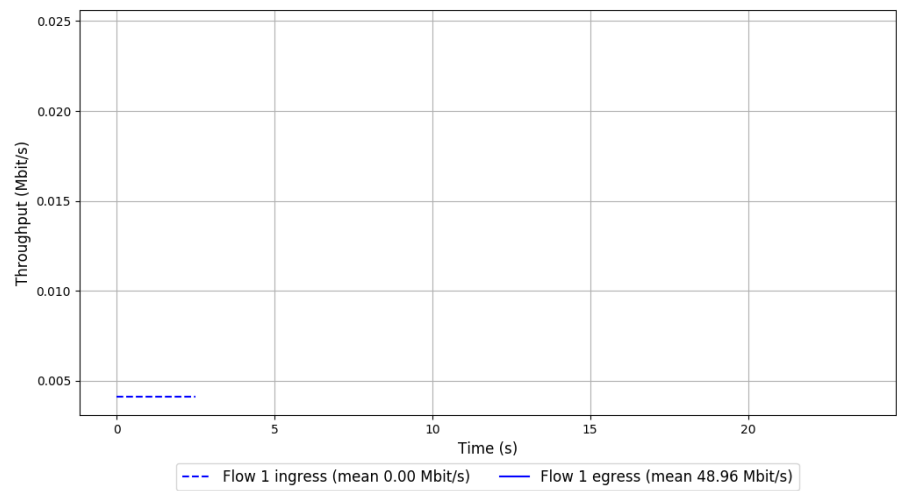


Run 10: Statistics of PCC

Start at: 2018-01-09 08:23:08

End at: 2018-01-09 08:23:38

Run 10: Report of PCC — Data Link

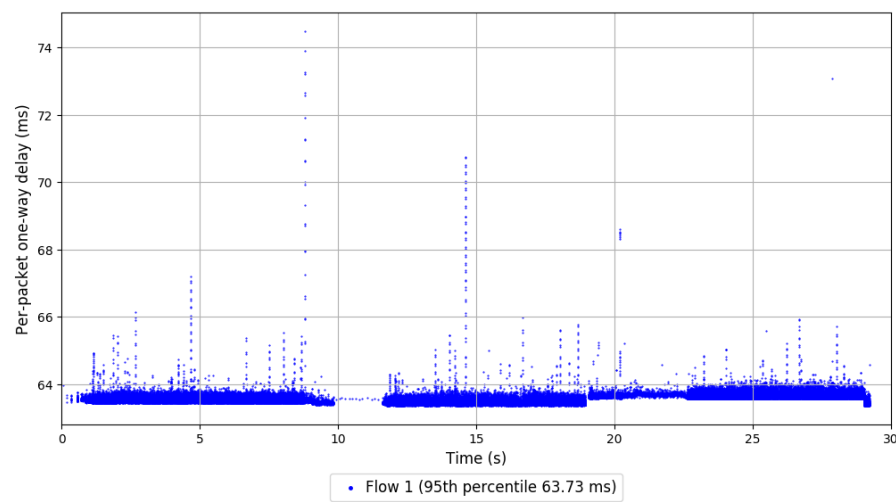
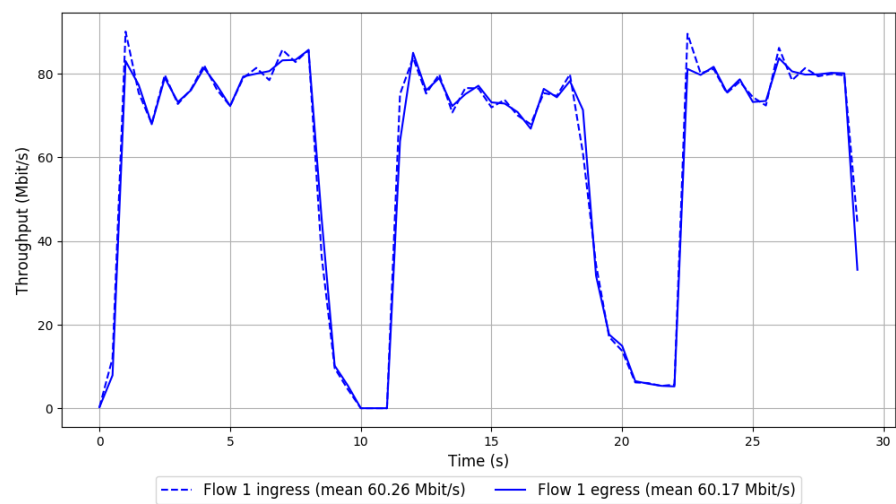


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-09 06:44:58
End at: 2018-01-09 06:45:28

# Below is generated by plot.py at 2018-01-09 10:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.17 Mbit/s
95th percentile per-packet one-way delay: 63.729 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 60.17 Mbit/s
95th percentile per-packet one-way delay: 63.729 ms
Loss rate: 0.58%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-09 06:56:06

End at: 2018-01-09 06:56:36

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.10 Mbit/s

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

Loss rate: 0.91%

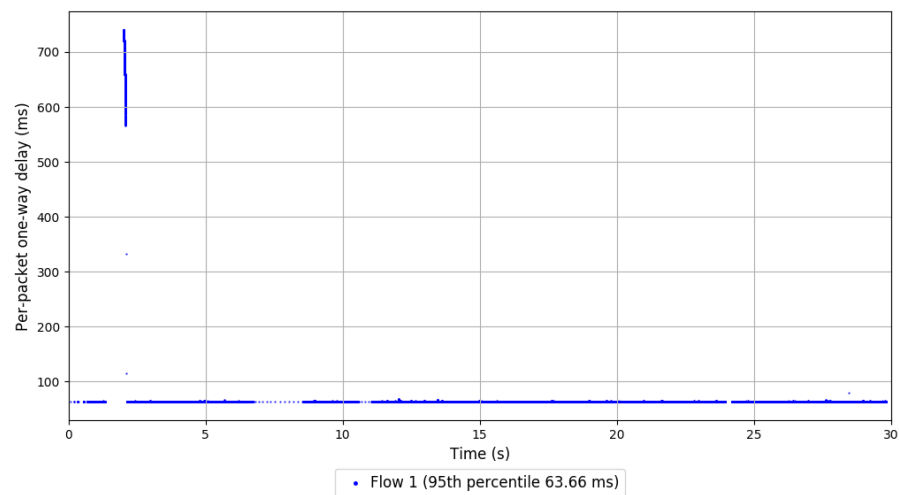
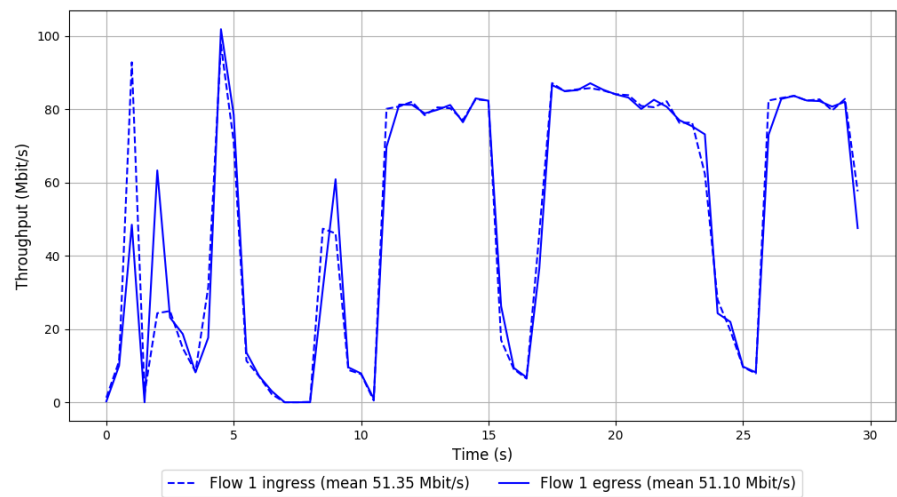
-- Flow 1:

Average throughput: 51.10 Mbit/s

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

Loss rate: 0.91%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-09 07:07:05

End at: 2018-01-09 07:07:35

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.21 Mbit/s

95th percentile per-packet one-way delay: 63.575 ms

Loss rate: 0.53%

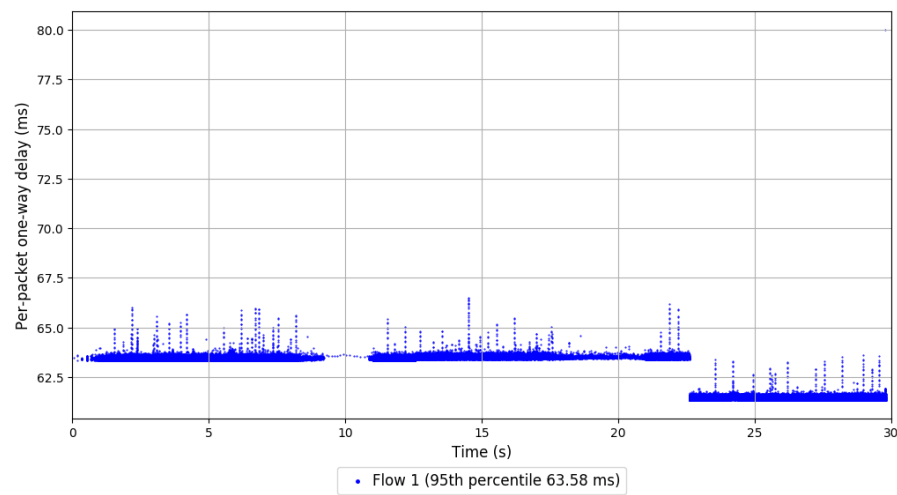
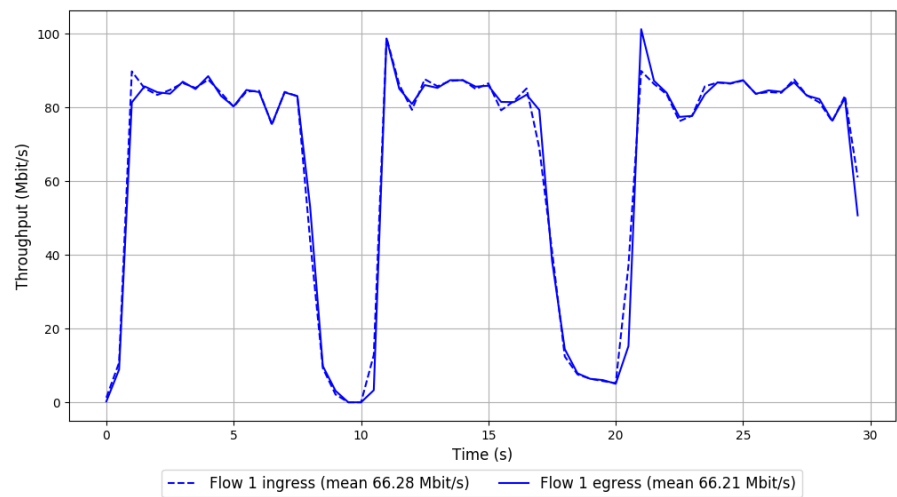
-- Flow 1:

Average throughput: 66.21 Mbit/s

95th percentile per-packet one-way delay: 63.575 ms

Loss rate: 0.53%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-09 07:18:39

End at: 2018-01-09 07:19:09

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 1.23%

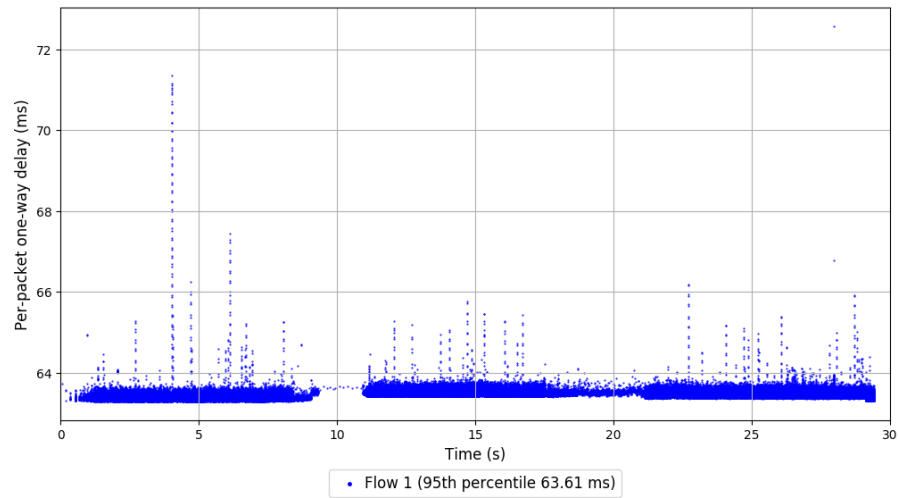
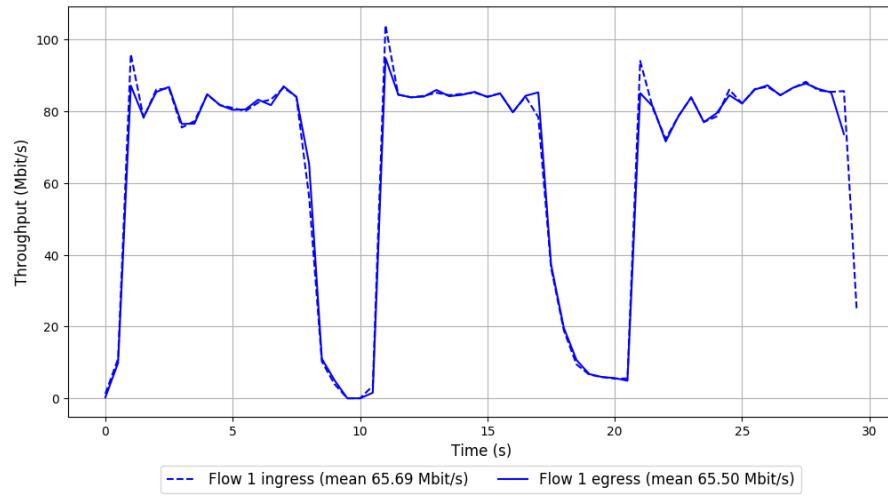
-- Flow 1:

Average throughput: 65.50 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 1.23%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-09 07:30:21

End at: 2018-01-09 07:30:51

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 0.46%

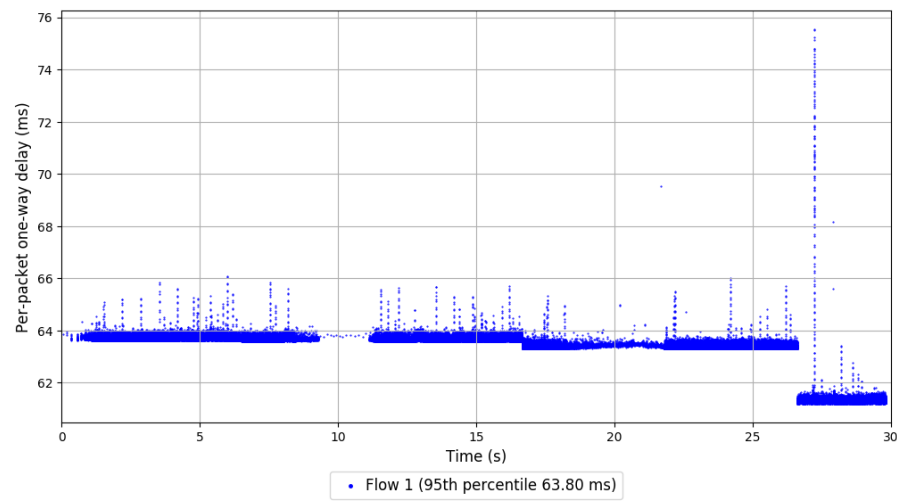
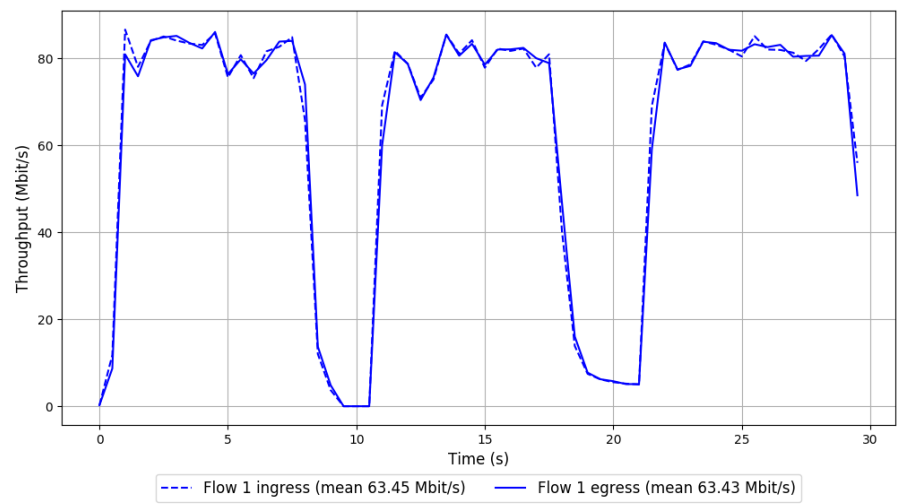
-- Flow 1:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 63.800 ms

Loss rate: 0.46%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-09 07:42:03

End at: 2018-01-09 07:42:33

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.53 Mbit/s

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

Loss rate: 0.63%

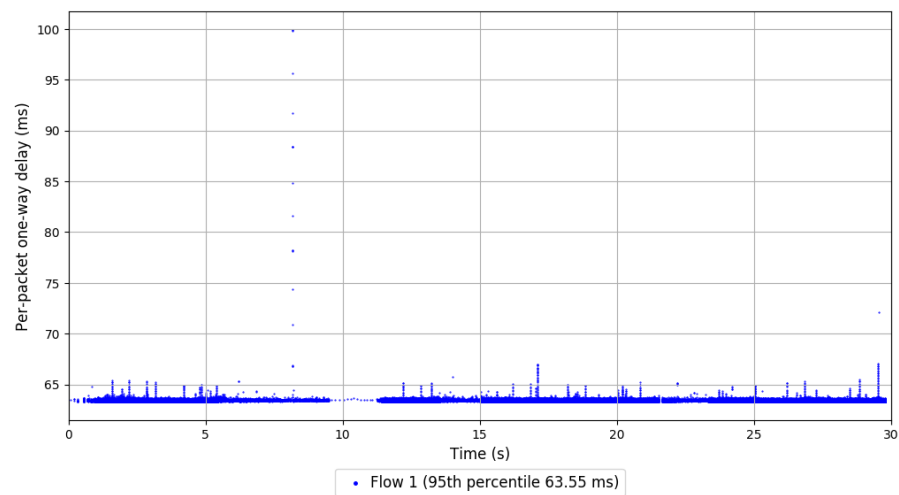
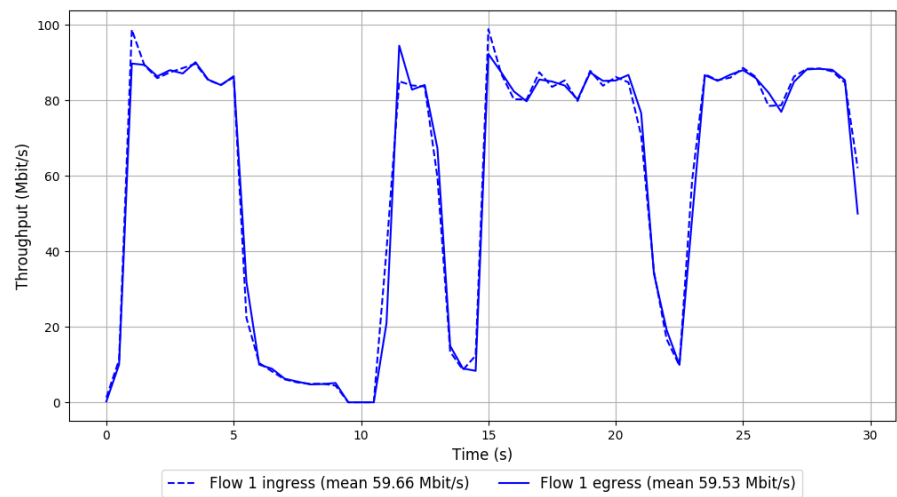
-- Flow 1:

Average throughput: 59.53 Mbit/s

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

Loss rate: 0.63%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-09 07:53:37

End at: 2018-01-09 07:54:07

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.09 Mbit/s

95th percentile per-packet one-way delay: 63.585 ms

Loss rate: 0.58%

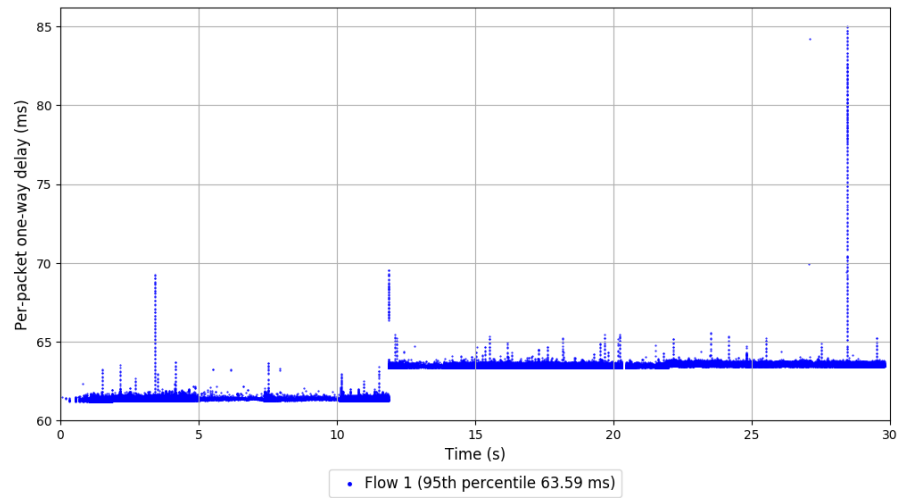
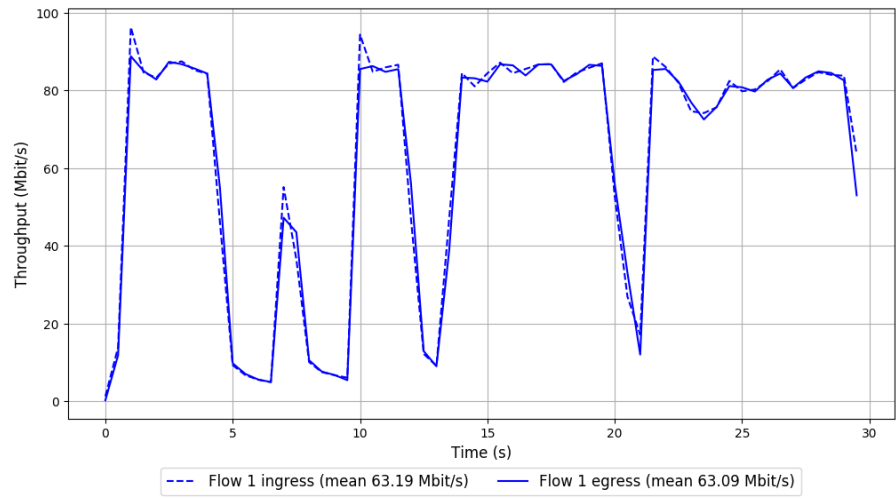
-- Flow 1:

Average throughput: 63.09 Mbit/s

95th percentile per-packet one-way delay: 63.585 ms

Loss rate: 0.58%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-09 08:05:10

End at: 2018-01-09 08:05:40

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 63.575 ms

Loss rate: 0.53%

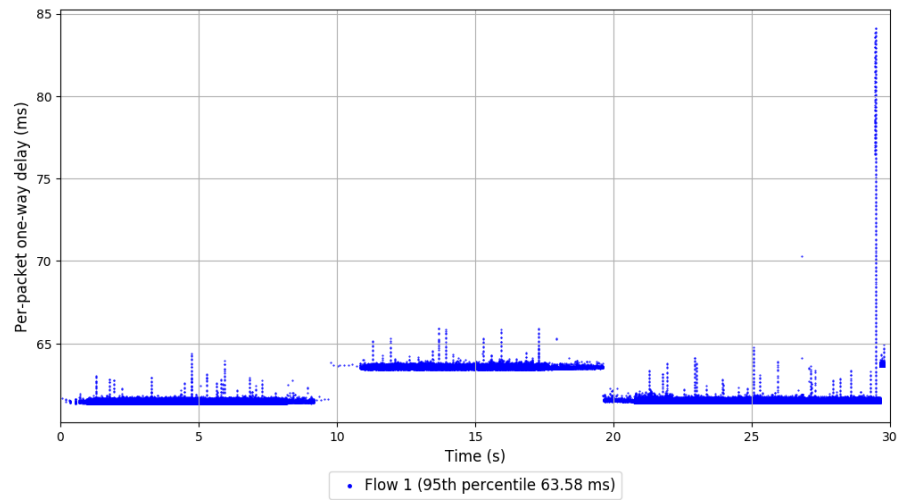
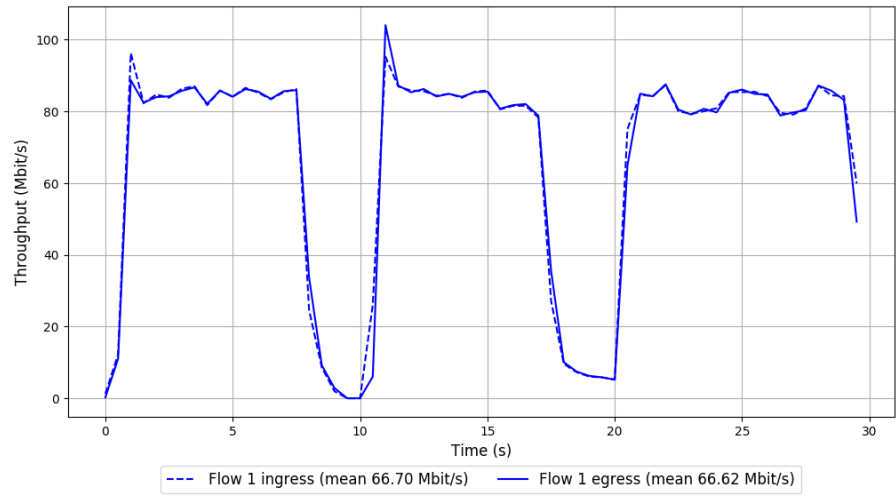
-- Flow 1:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 63.575 ms

Loss rate: 0.53%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-09 08:15:49

End at: 2018-01-09 08:16:19

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.00 Mbit/s

95th percentile per-packet one-way delay: 61.636 ms

Loss rate: 0.53%

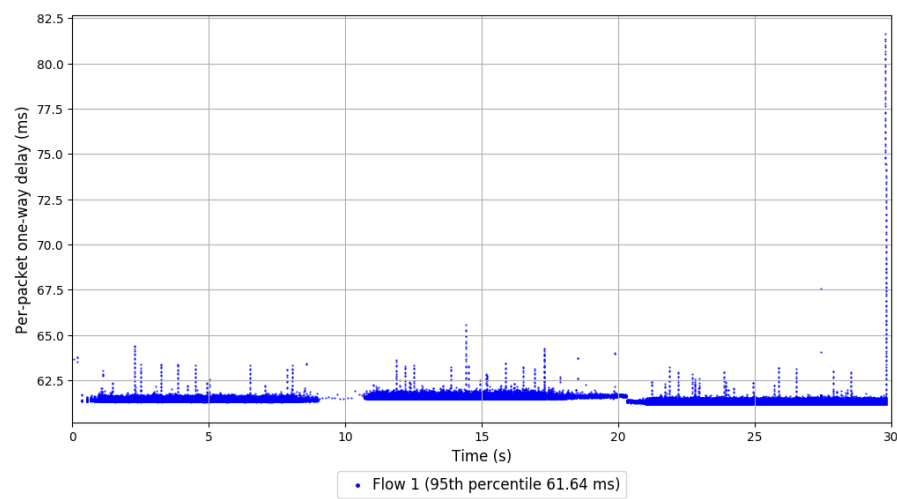
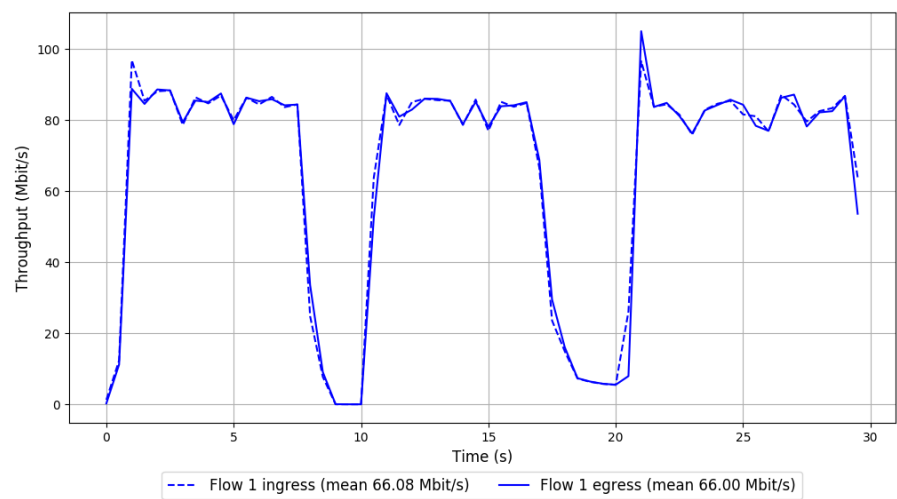
-- Flow 1:

Average throughput: 66.00 Mbit/s

95th percentile per-packet one-way delay: 61.636 ms

Loss rate: 0.53%

Run 9: Report of QUIC Cubic — Data Link

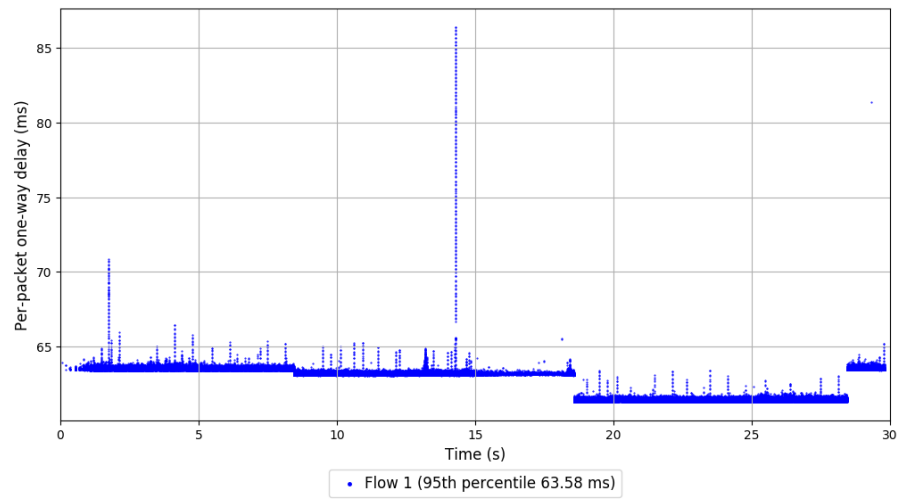
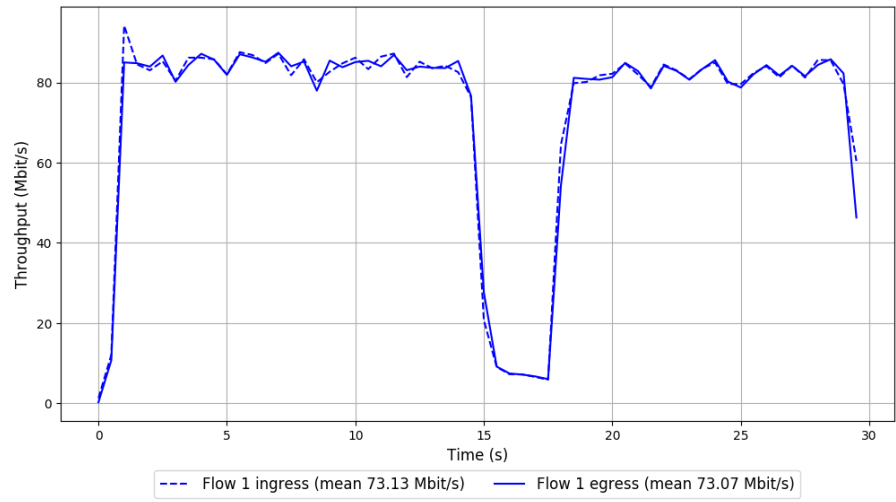


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-09 08:26:39
End at: 2018-01-09 08:27:09

# Below is generated by plot.py at 2018-01-09 10:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.07 Mbit/s
95th percentile per-packet one-way delay: 63.576 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 73.07 Mbit/s
95th percentile per-packet one-way delay: 63.576 ms
Loss rate: 0.50%
```

Run 10: Report of QUIC Cubic — Data Link

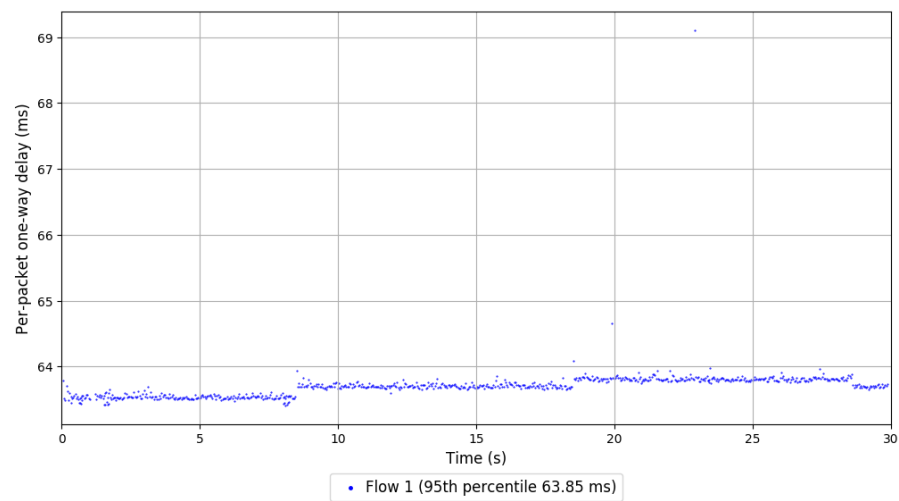
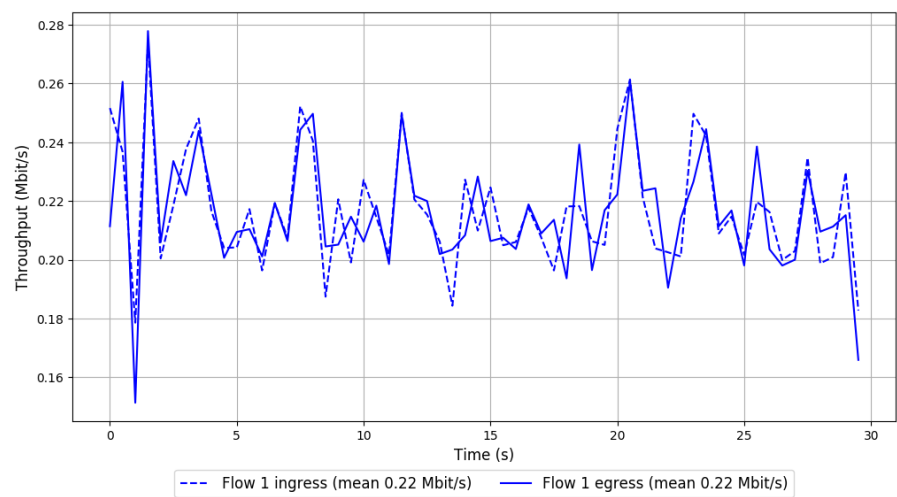


```
Run 1: Statistics of SCReAM

Start at: 2018-01-09 06:44:21
End at: 2018-01-09 06:44:51

# Below is generated by plot.py at 2018-01-09 10:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

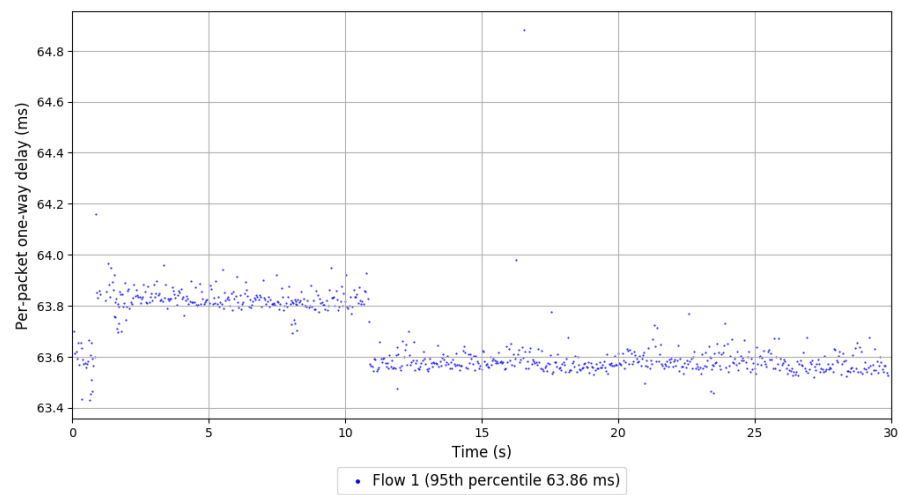
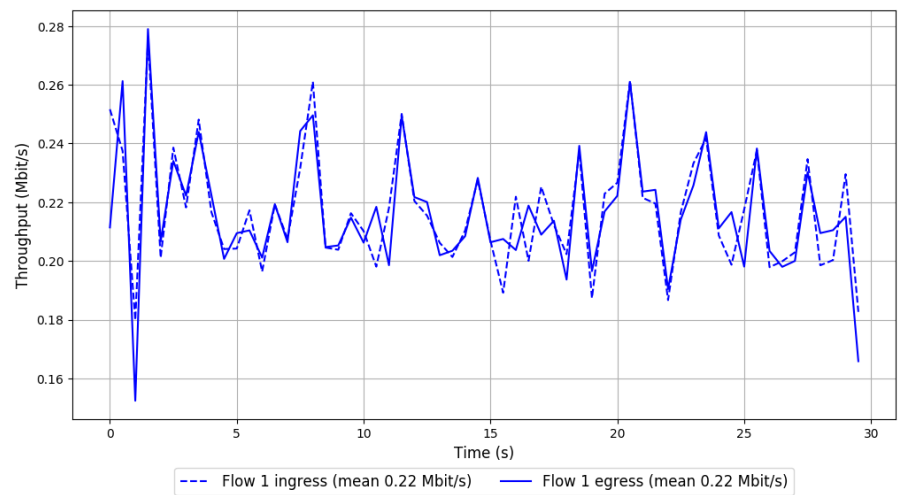


```
Run 2: Statistics of SCReAM

Start at: 2018-01-09 06:55:28
End at: 2018-01-09 06:55:58

# Below is generated by plot.py at 2018-01-09 10:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.863 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.863 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-09 07:06:28

End at: 2018-01-09 07:06:58

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.38%

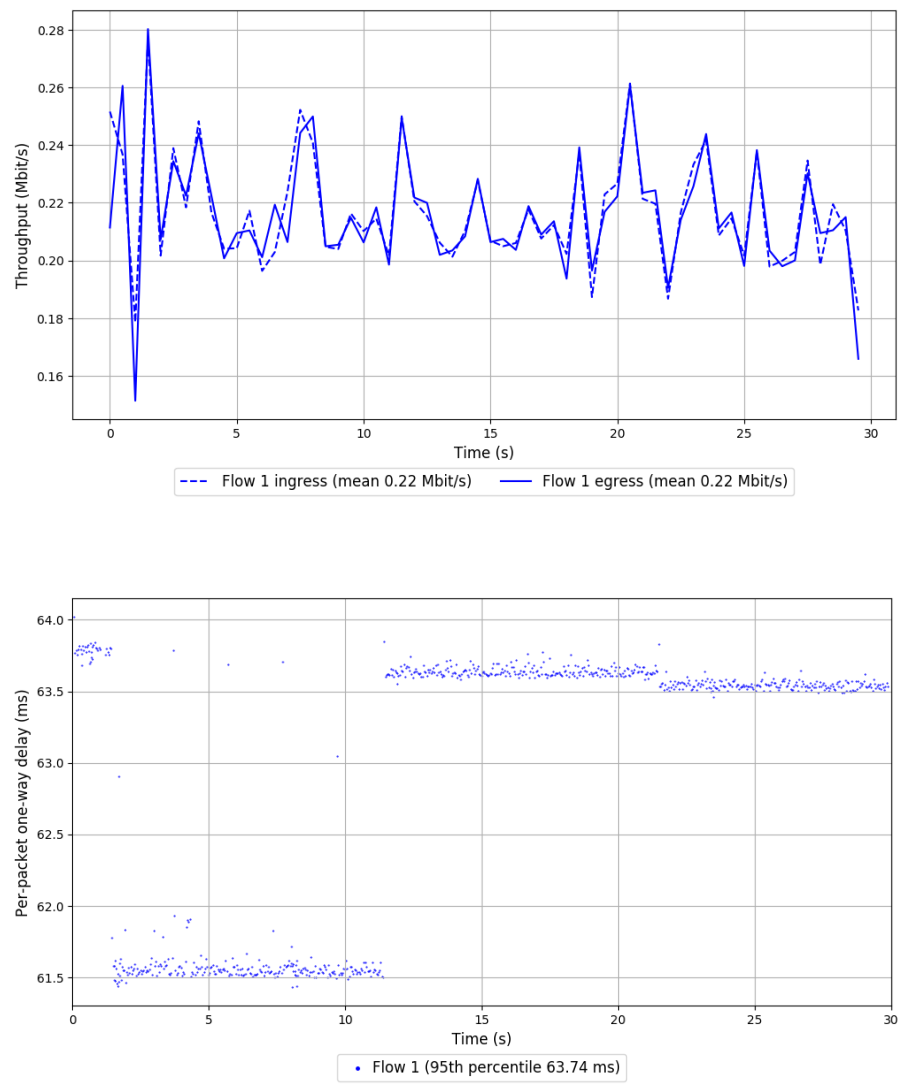
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.738 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-09 07:18:01

End at: 2018-01-09 07:18:31

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.857 ms

Loss rate: 0.38%

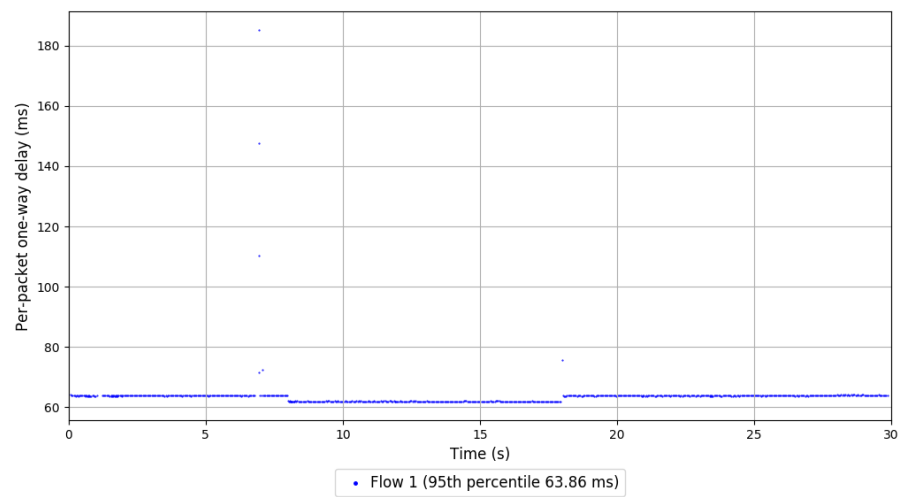
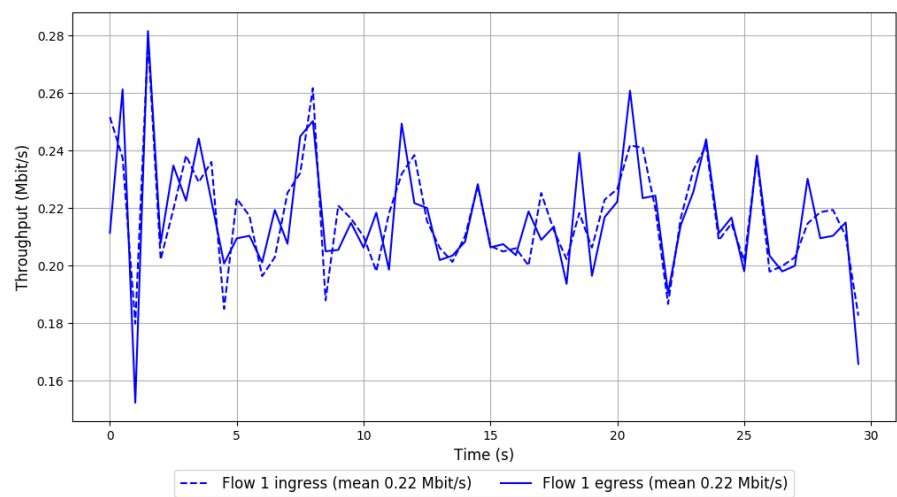
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.857 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-09 07:29:44

End at: 2018-01-09 07:30:14

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.881 ms

Loss rate: 0.38%

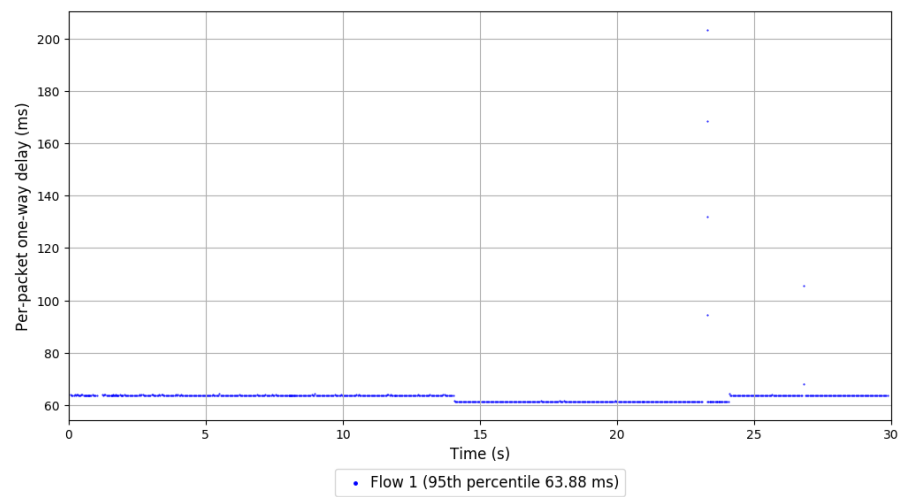
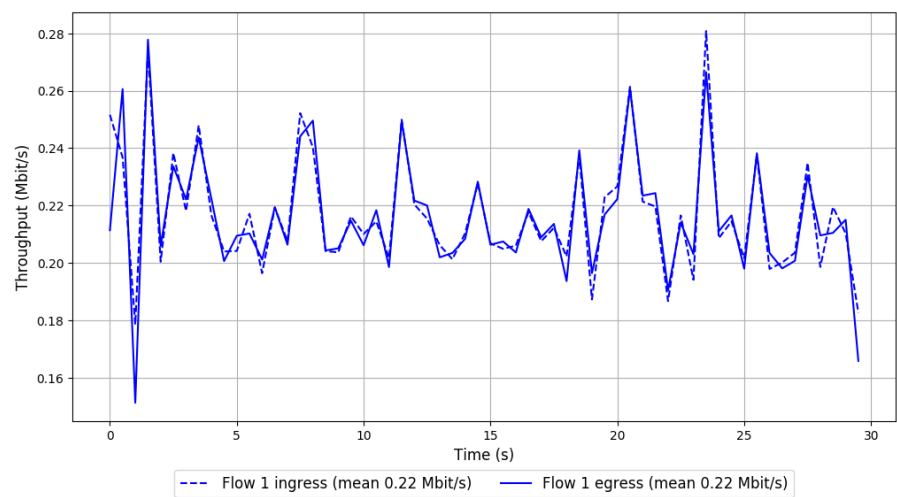
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.881 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-09 07:41:25

End at: 2018-01-09 07:41:55

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.718 ms

Loss rate: 0.38%

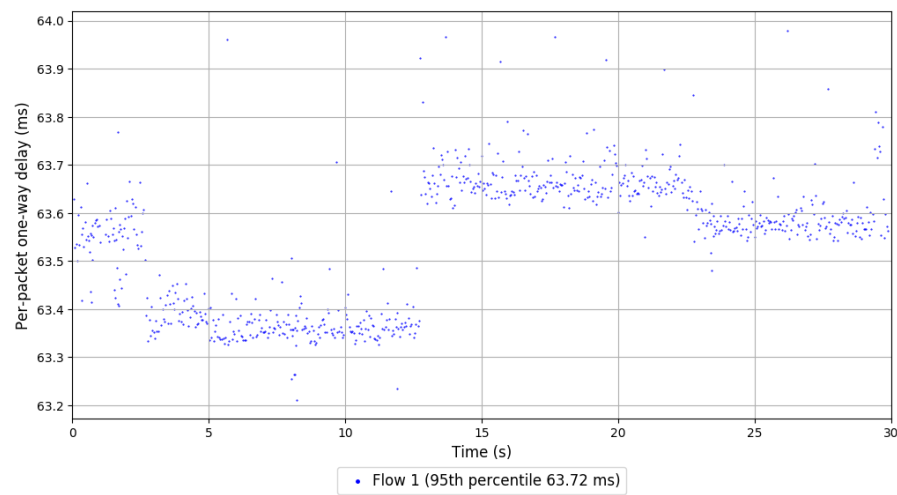
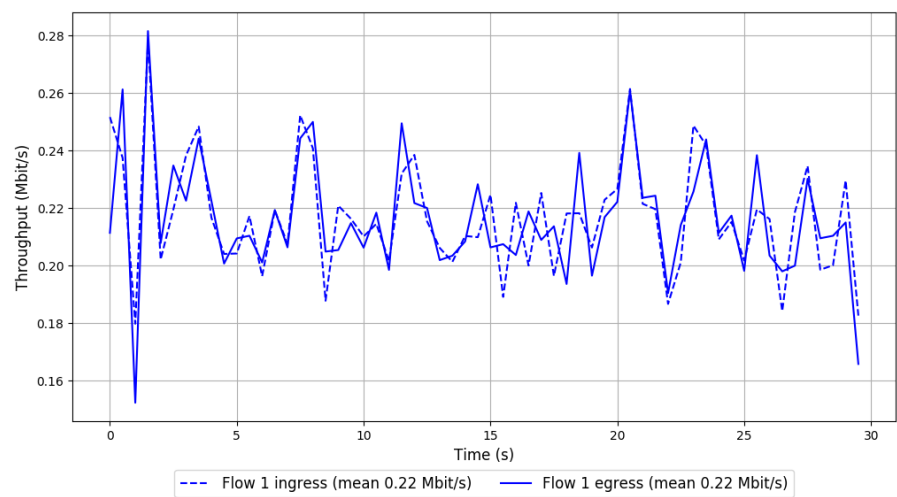
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.718 ms

Loss rate: 0.38%

Run 6: Report of SCRaM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-09 07:53:00

End at: 2018-01-09 07:53:30

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.995 ms

Loss rate: 0.38%

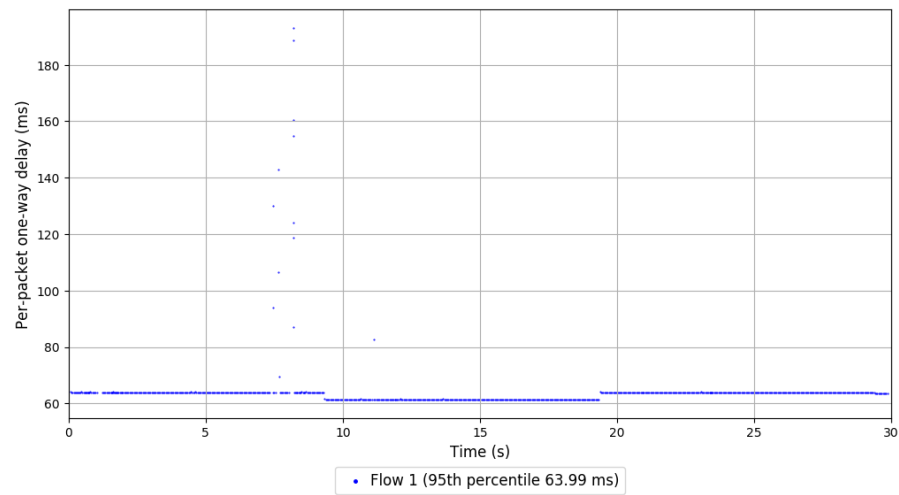
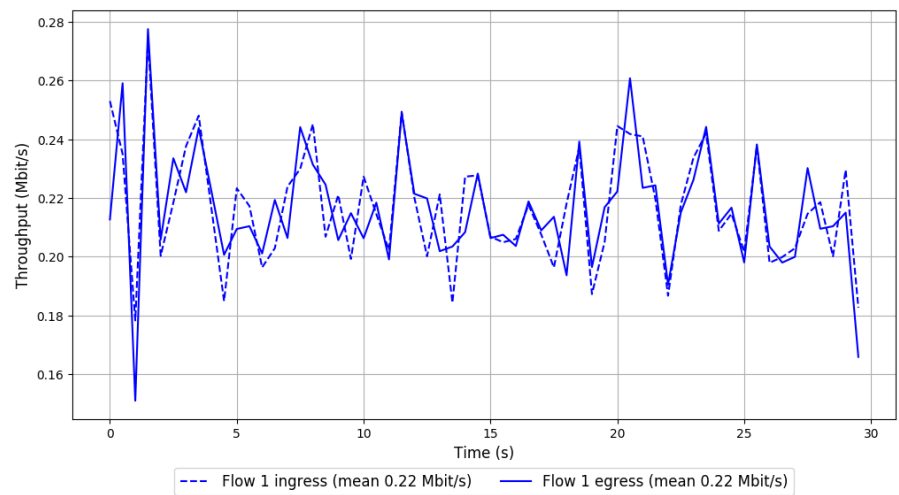
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.995 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-09 08:04:32

End at: 2018-01-09 08:05:02

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 0.38%

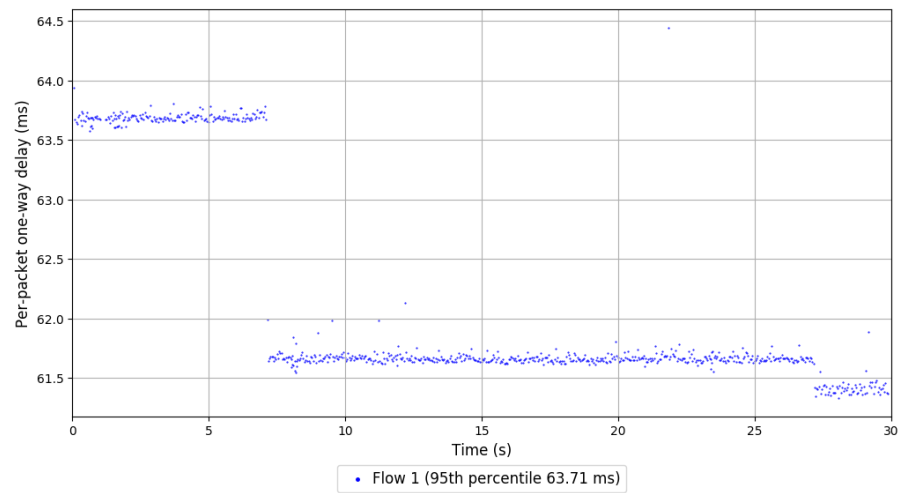
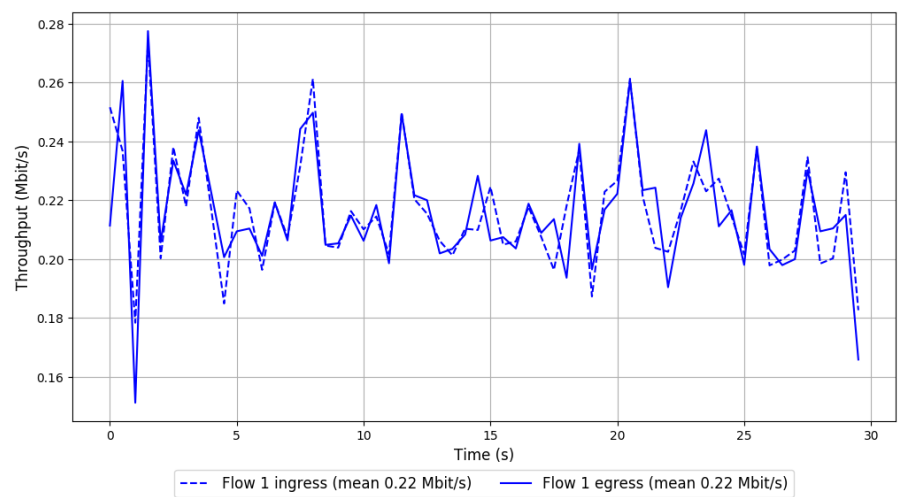
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-09 08:15:12

End at: 2018-01-09 08:15:42

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

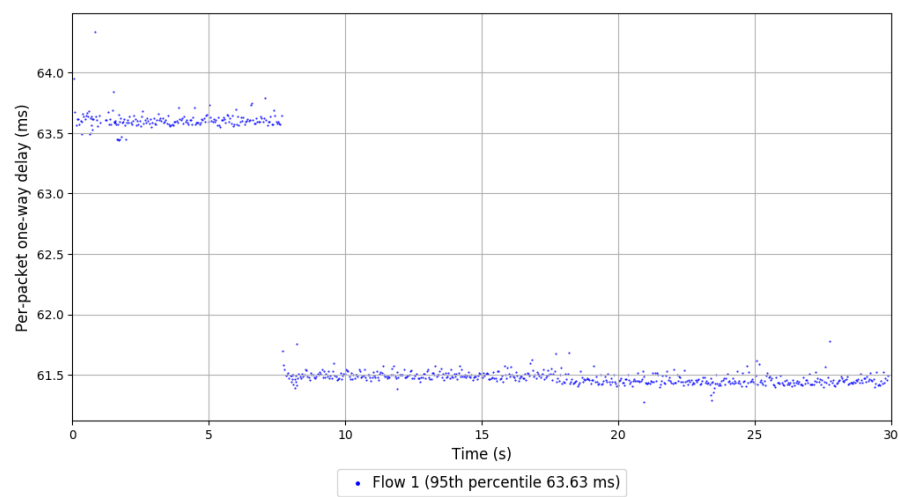
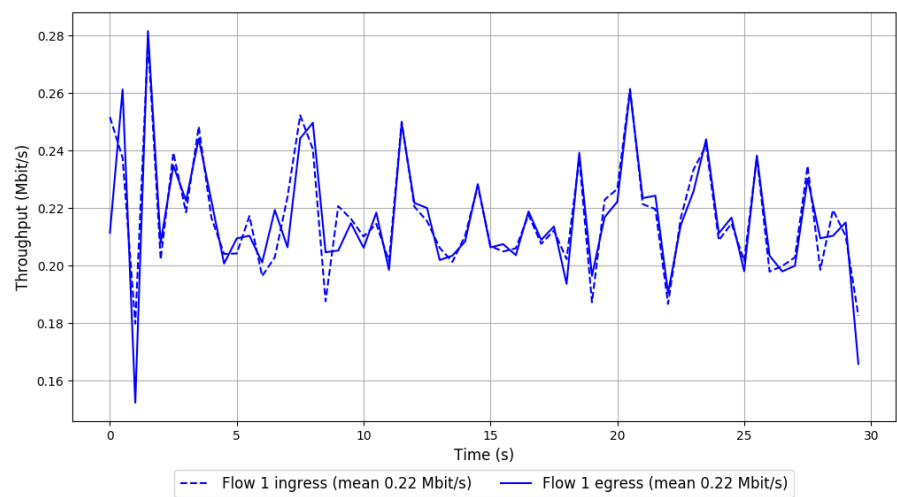
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link

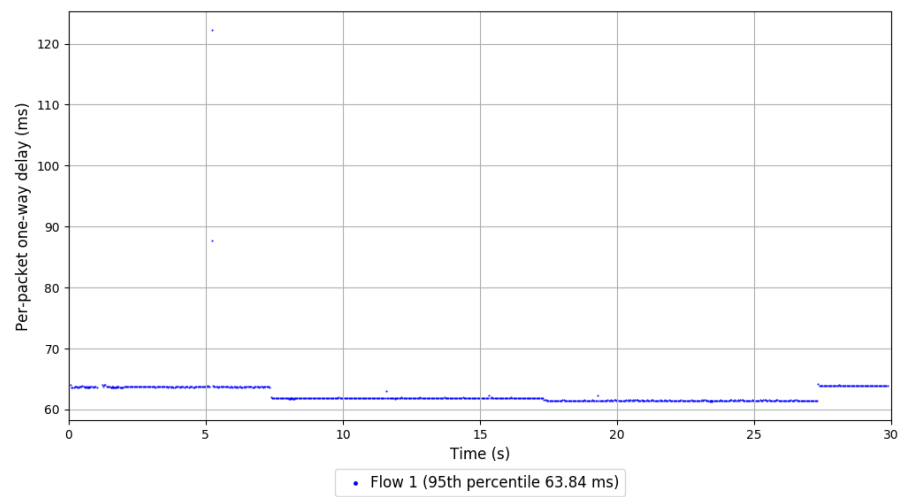
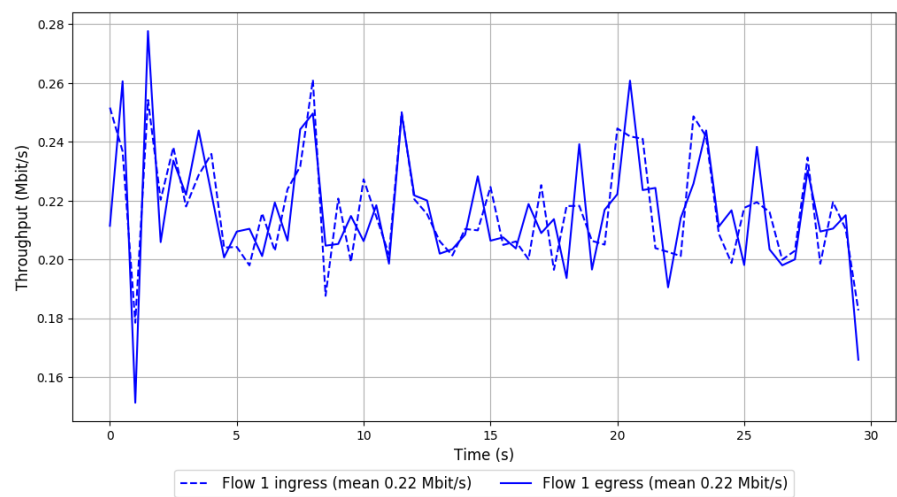


```
Run 10: Statistics of SReAM

Start at: 2018-01-09 08:26:02
End at: 2018-01-09 08:26:32

# Below is generated by plot.py at 2018-01-09 10:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.844 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.844 ms
Loss rate: 0.38%
```

Run 10: Report of SReAM — Data Link

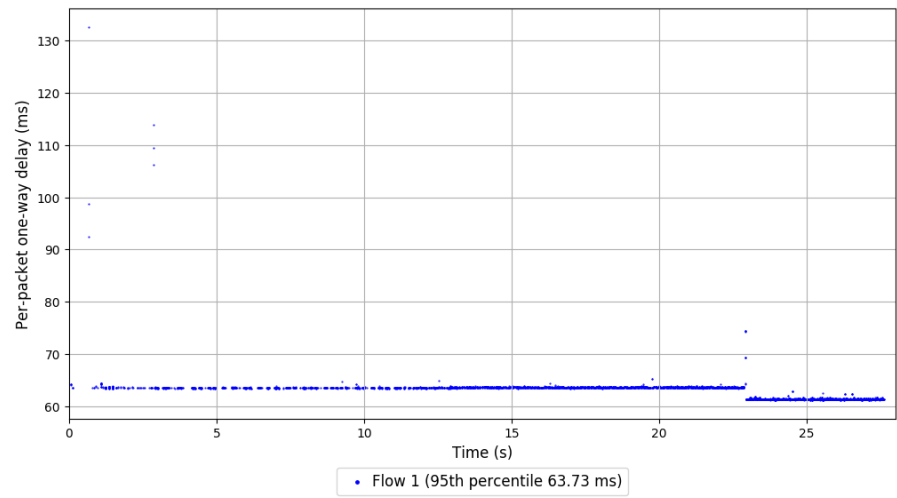
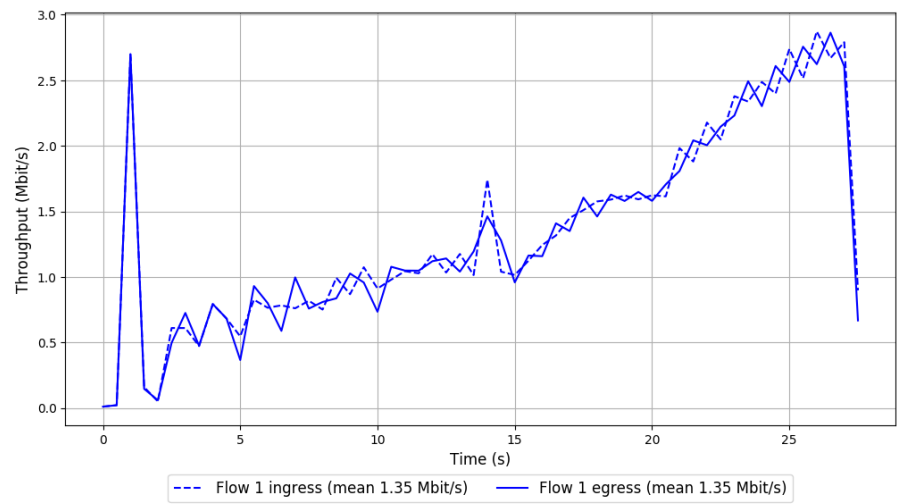


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-09 06:47:04
End at: 2018-01-09 06:47:34

# Below is generated by plot.py at 2018-01-09 10:44:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 63.725 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 63.725 ms
Loss rate: 0.90%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-09 06:58:11

End at: 2018-01-09 06:58:41

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.829 ms

Loss rate: 0.00%

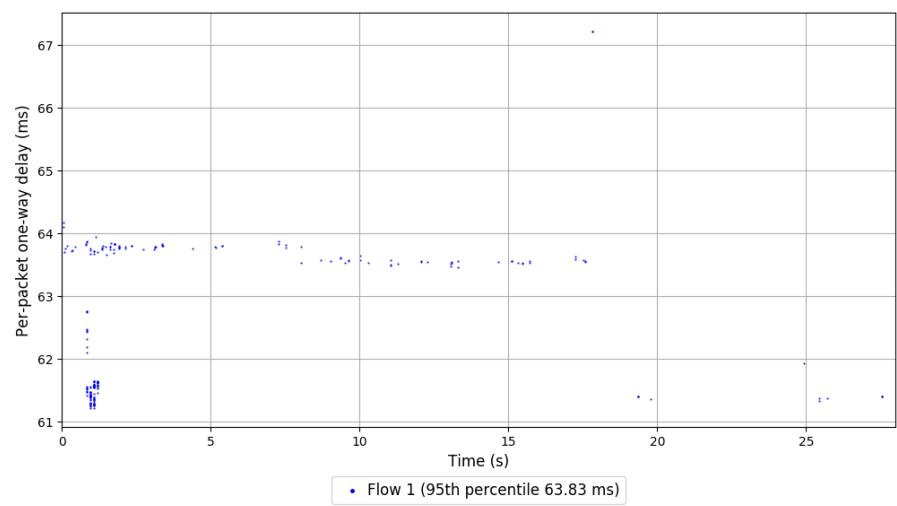
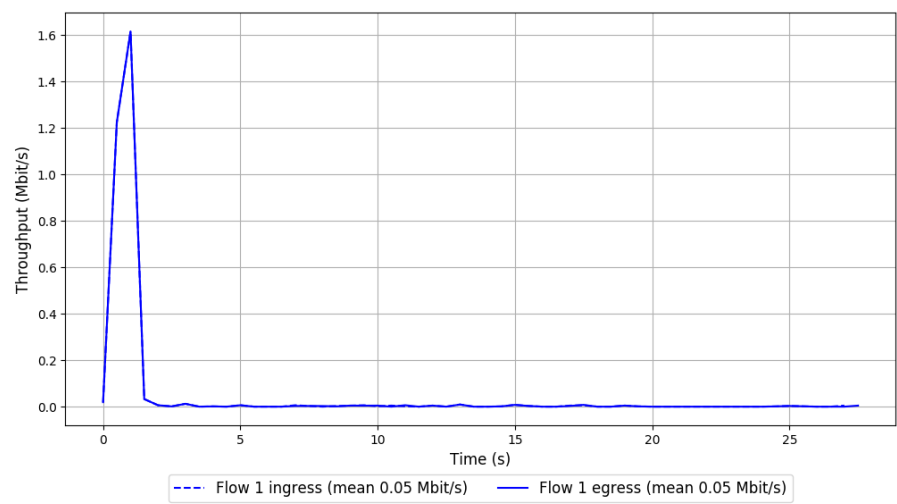
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.829 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-09 07:09:11

End at: 2018-01-09 07:09:41

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.69%

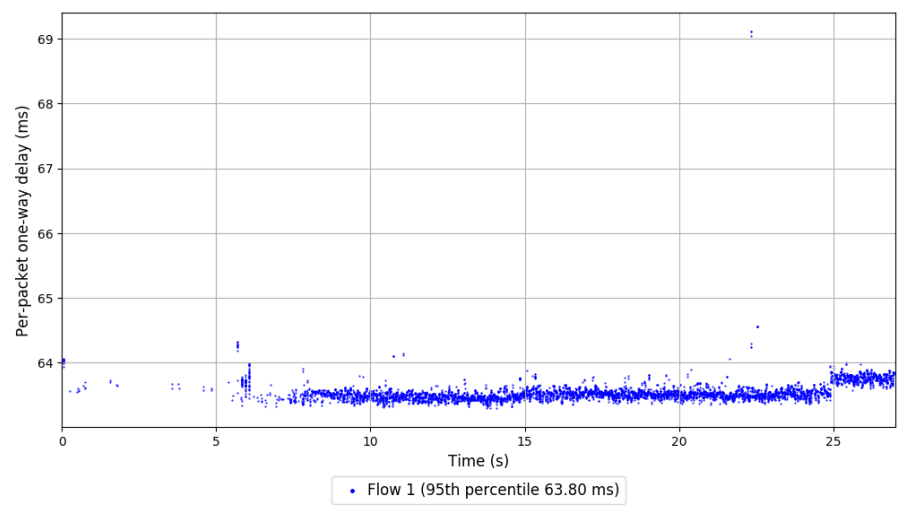
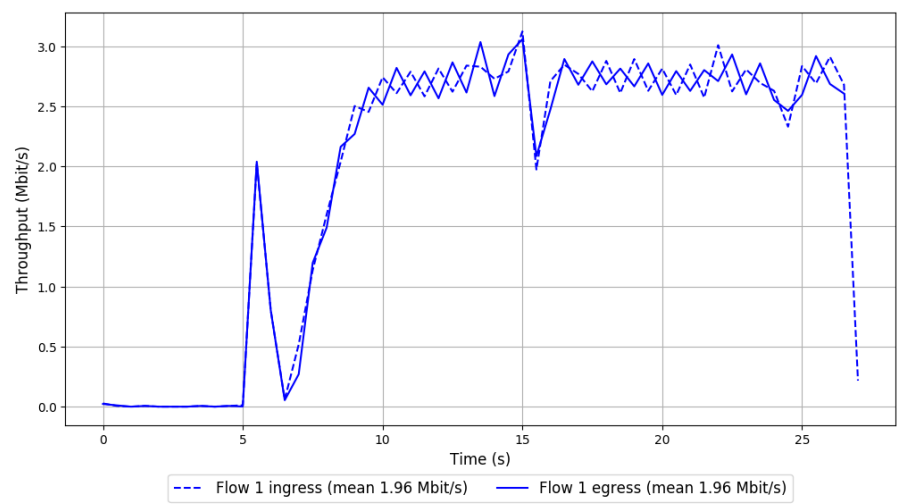
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.69%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-09 07:20:45

End at: 2018-01-09 07:21:15

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 63.835 ms

Loss rate: 0.63%

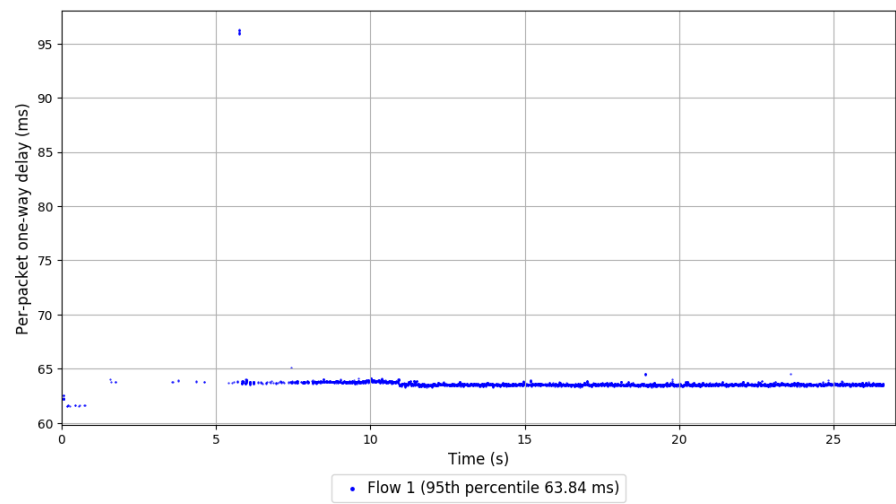
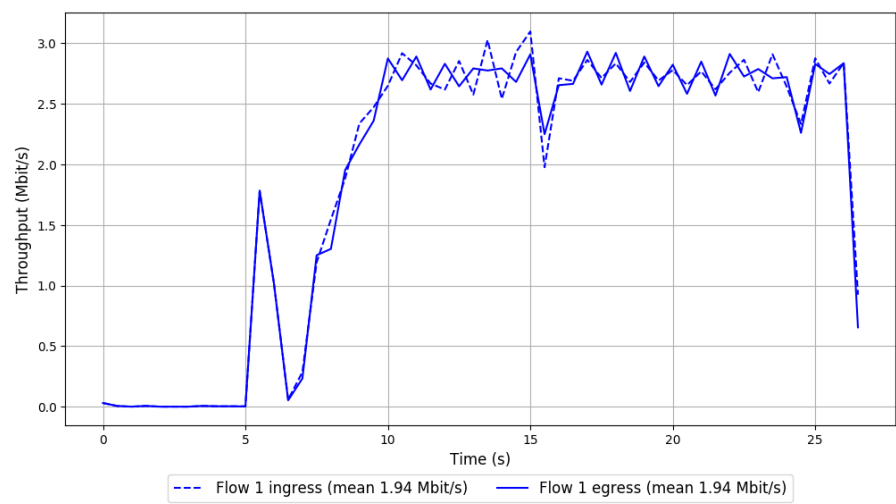
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 63.835 ms

Loss rate: 0.63%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-09 07:32:27

End at: 2018-01-09 07:32:57

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.00%

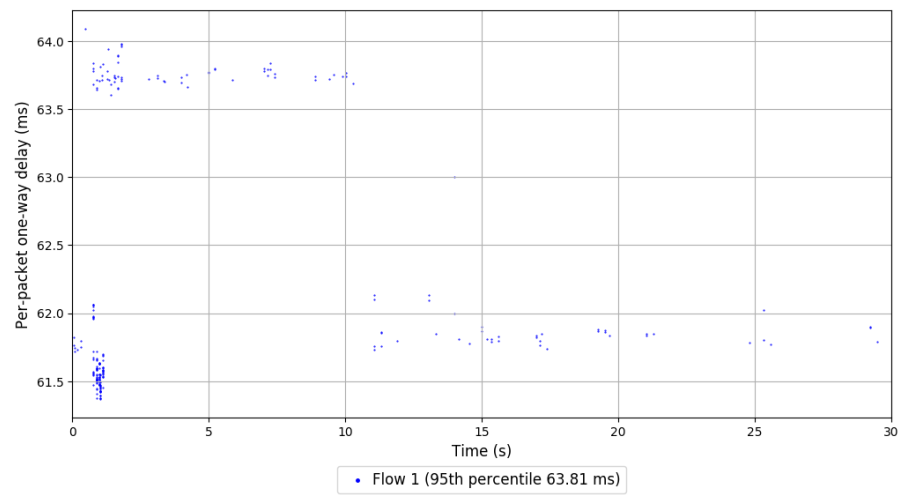
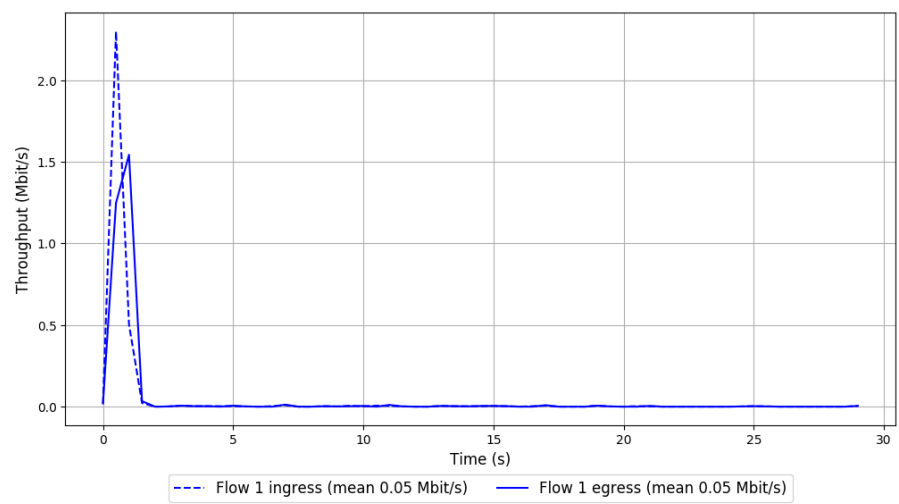
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-09 07:44:08

End at: 2018-01-09 07:44:38

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

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

Loss rate: 0.64%

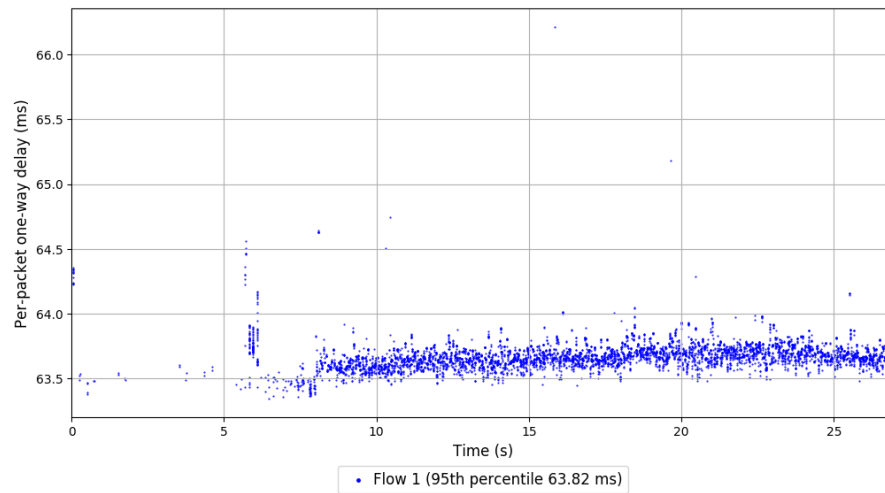
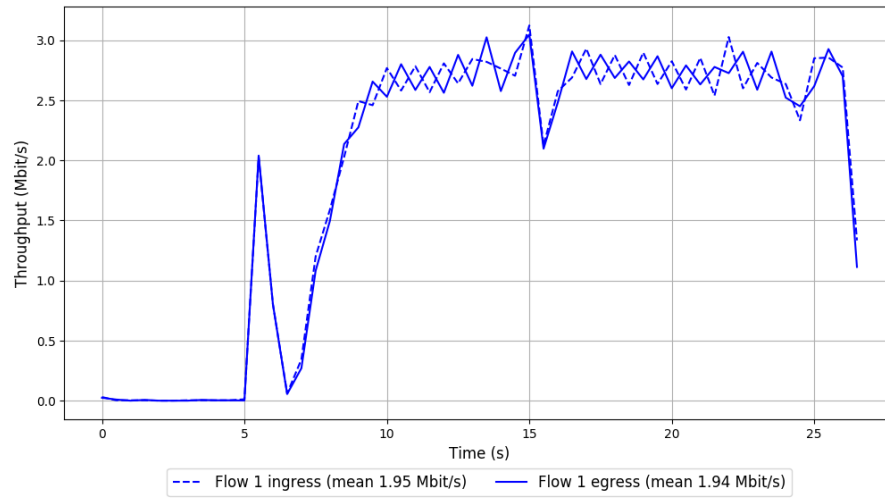
-- Flow 1:

Average throughput: 1.94 Mbit/s

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

Loss rate: 0.64%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-09 07:55:43

End at: 2018-01-09 07:56:13

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.66%

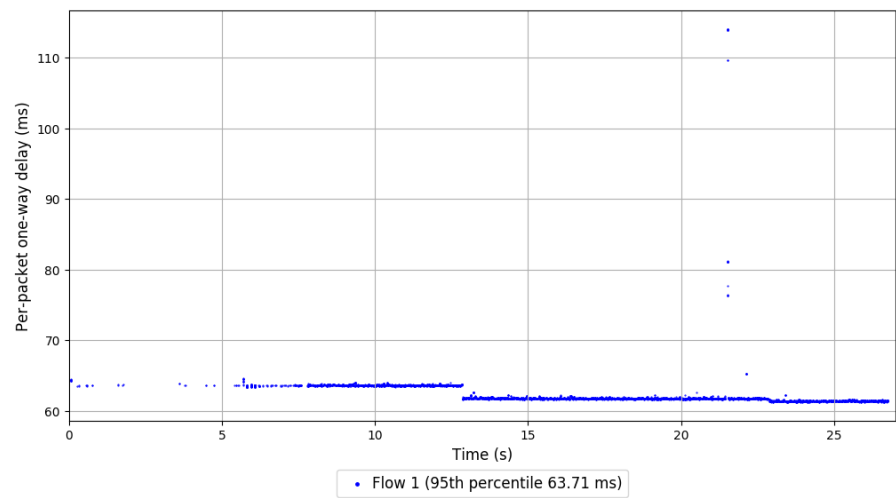
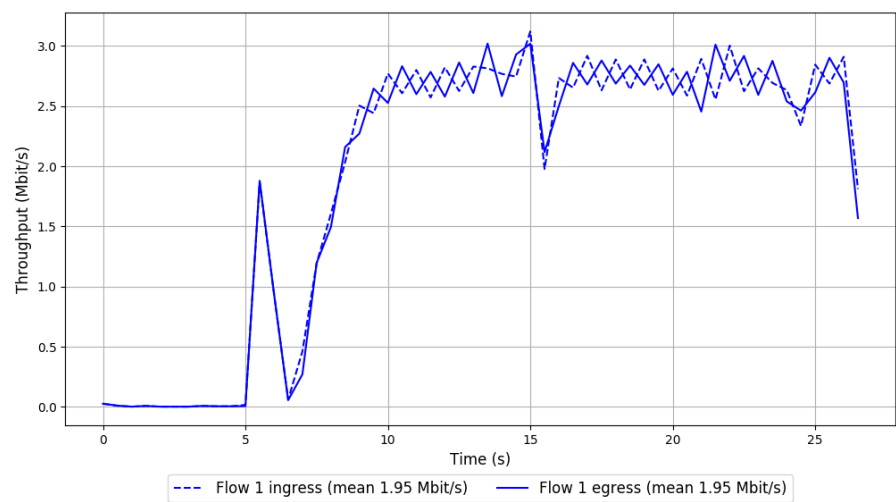
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.66%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-09 08:07:15

End at: 2018-01-09 08:07:45

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

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

Loss rate: 0.46%

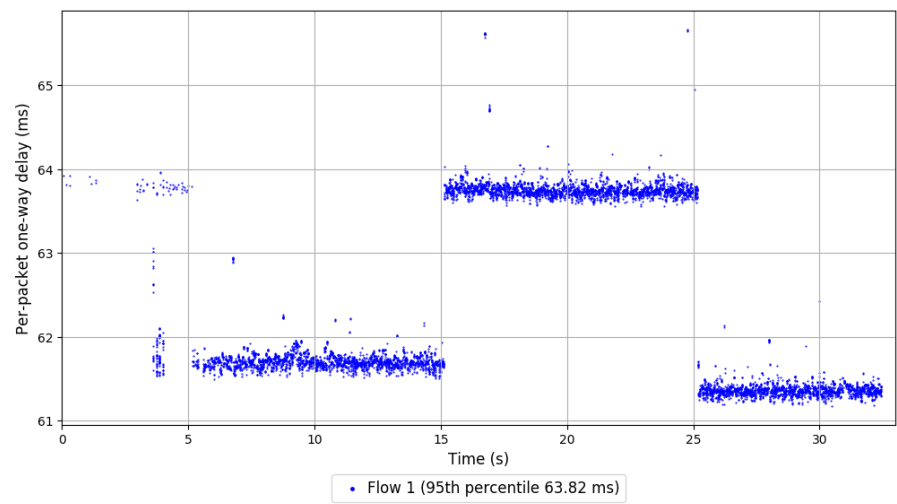
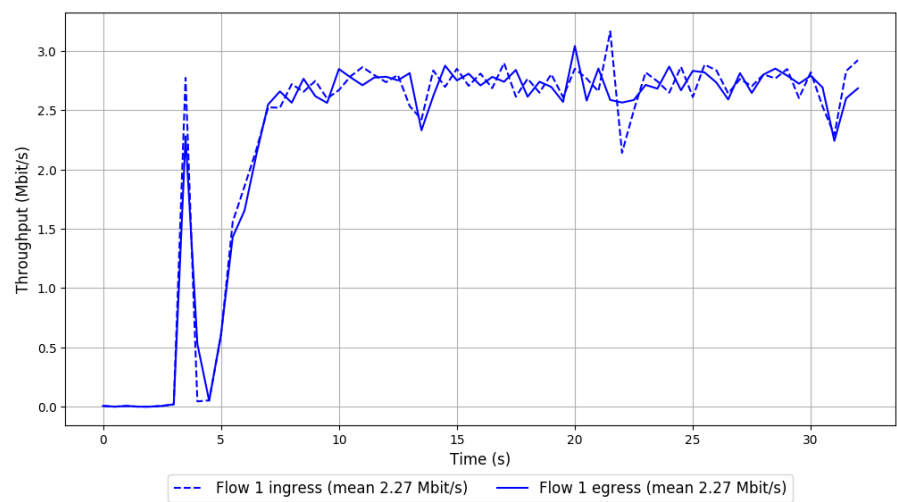
-- Flow 1:

Average throughput: 2.27 Mbit/s

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

Loss rate: 0.46%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-09 08:17:55

End at: 2018-01-09 08:18:25

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.990 ms

Loss rate: 0.00%

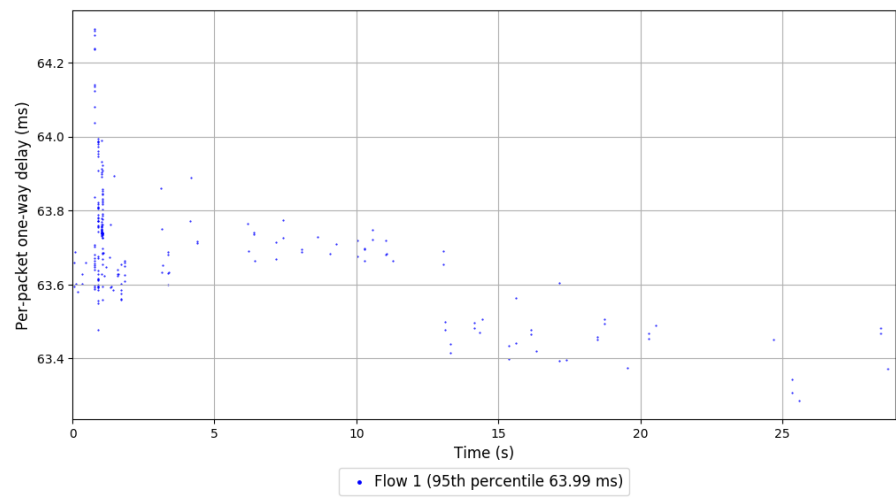
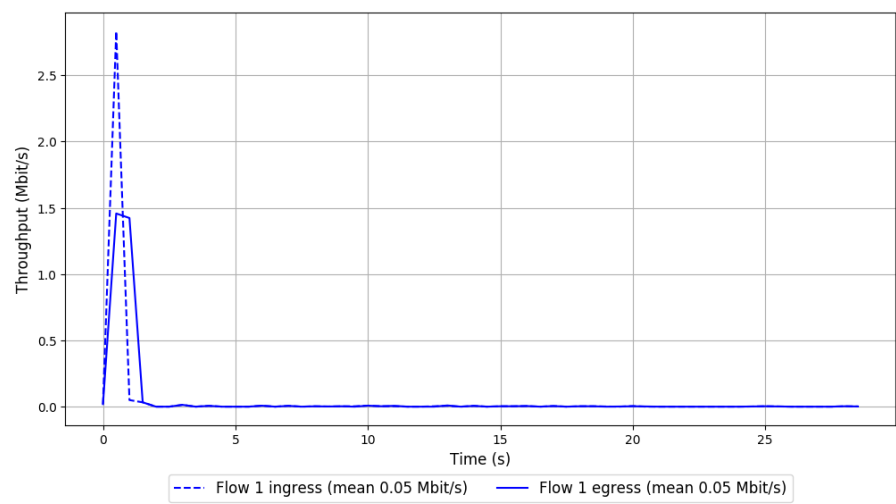
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.990 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-09 08:28:46

End at: 2018-01-09 08:29:16

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 63.834 ms

Loss rate: 0.74%

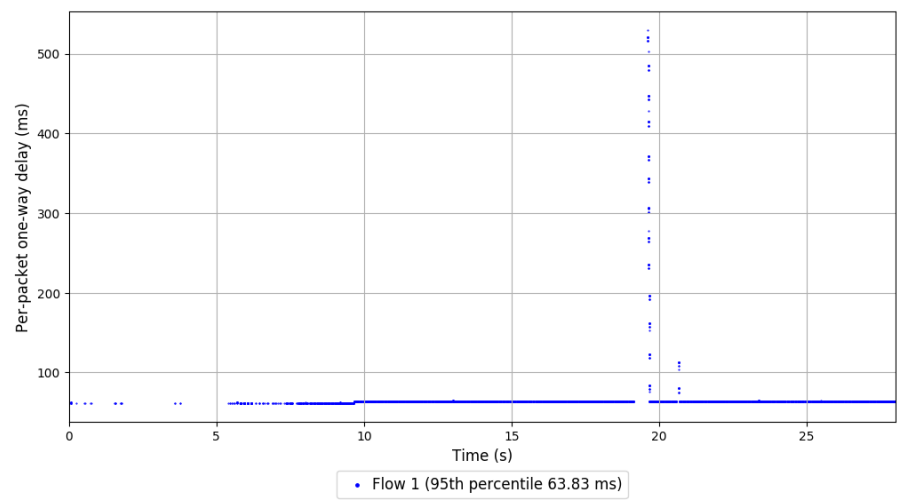
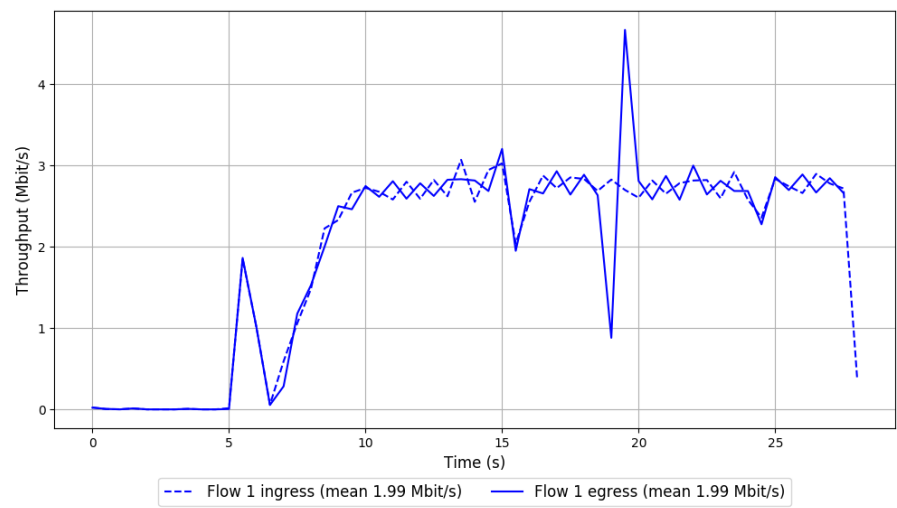
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 63.834 ms

Loss rate: 0.74%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-09 06:35:48

End at: 2018-01-09 06:36:18

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 64.736 ms

Loss rate: 0.48%

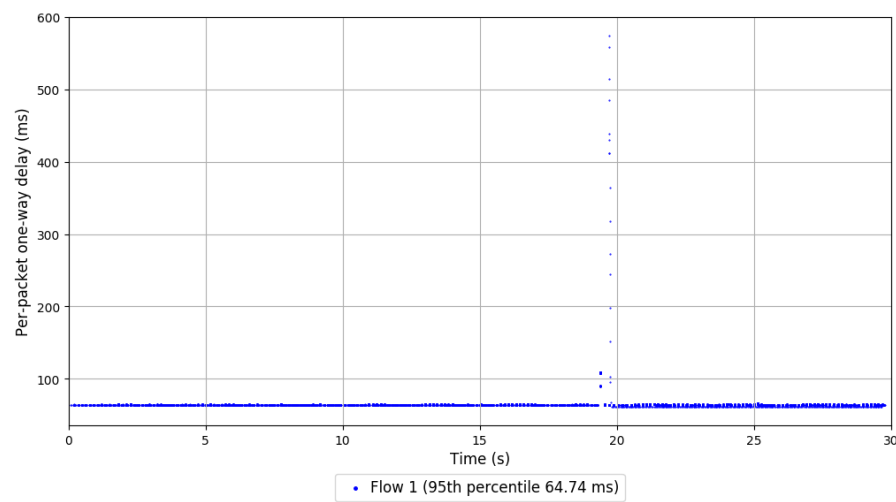
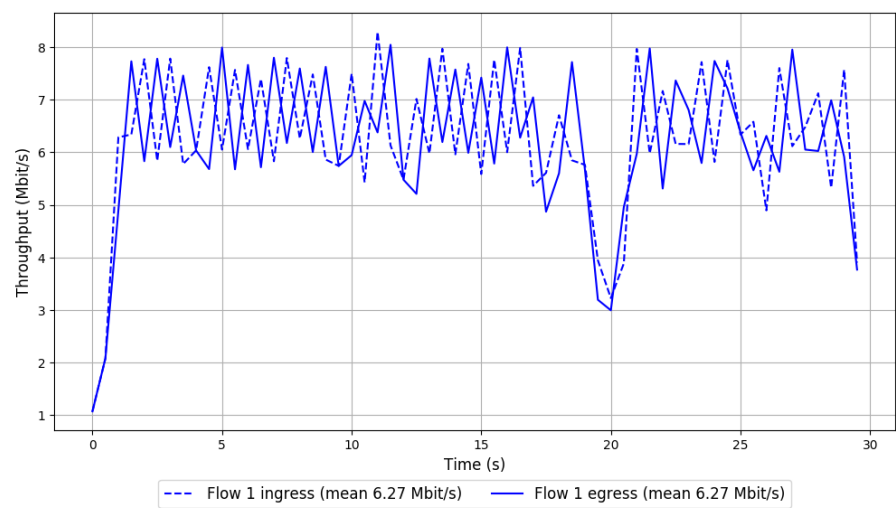
-- Flow 1:

Average throughput: 6.27 Mbit/s

95th percentile per-packet one-way delay: 64.736 ms

Loss rate: 0.48%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-09 06:47:42

End at: 2018-01-09 06:48:12

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.661 ms

Loss rate: 0.54%

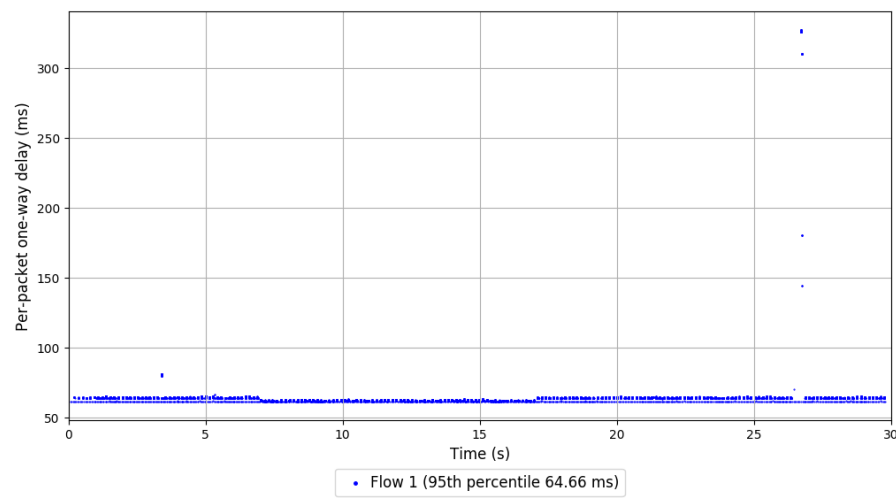
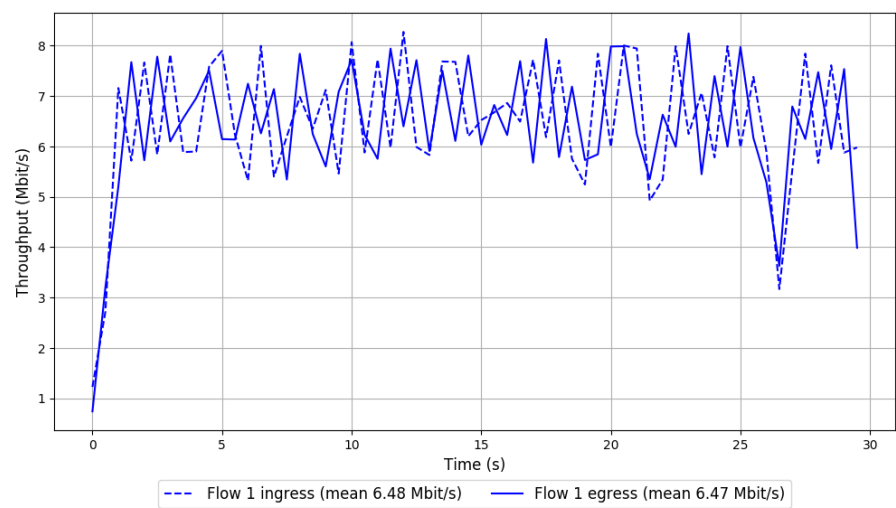
-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.661 ms

Loss rate: 0.54%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-09 06:58:49

End at: 2018-01-09 06:59:19

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.649 ms

Loss rate: 0.21%

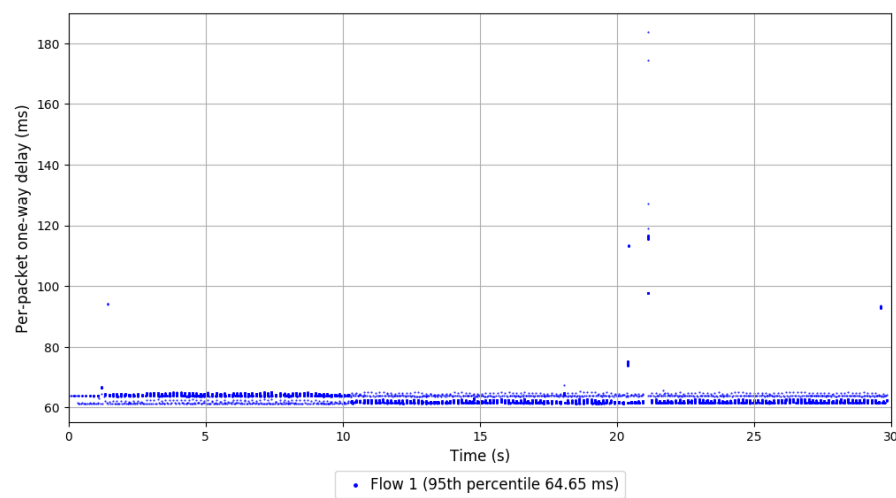
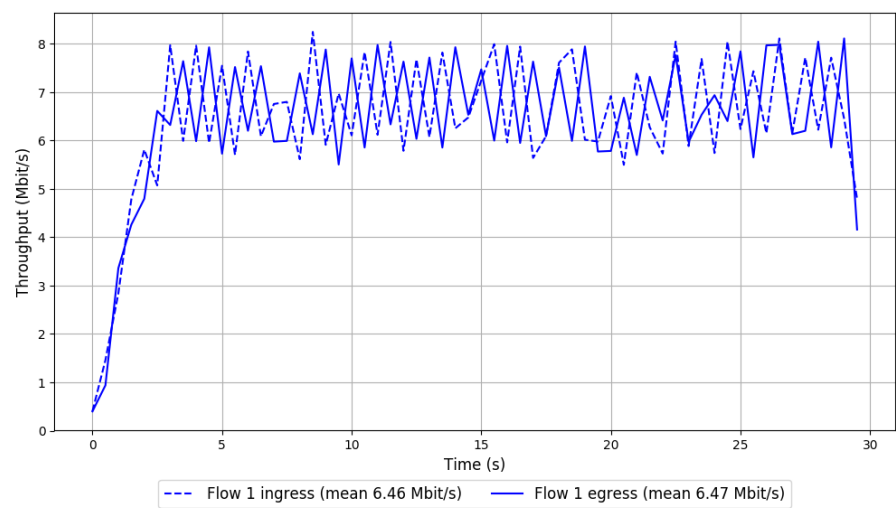
-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.649 ms

Loss rate: 0.21%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-09 07:09:50

End at: 2018-01-09 07:10:20

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.51 Mbit/s

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

Loss rate: 0.32%

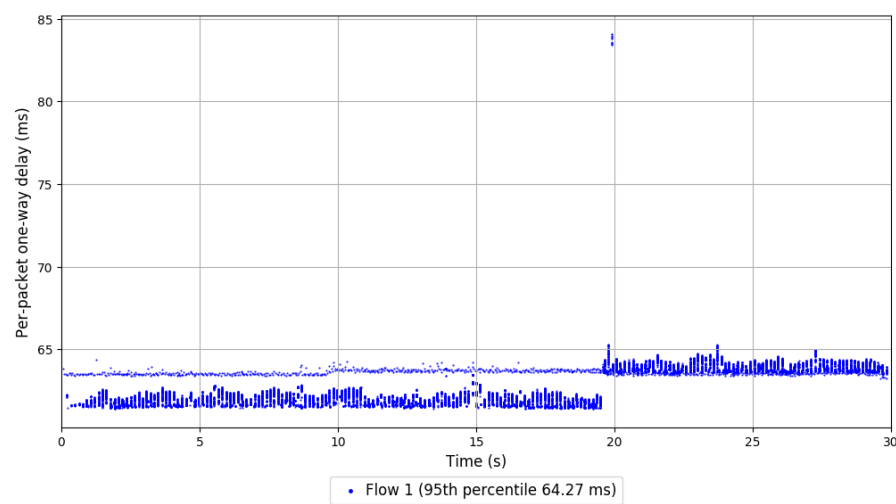
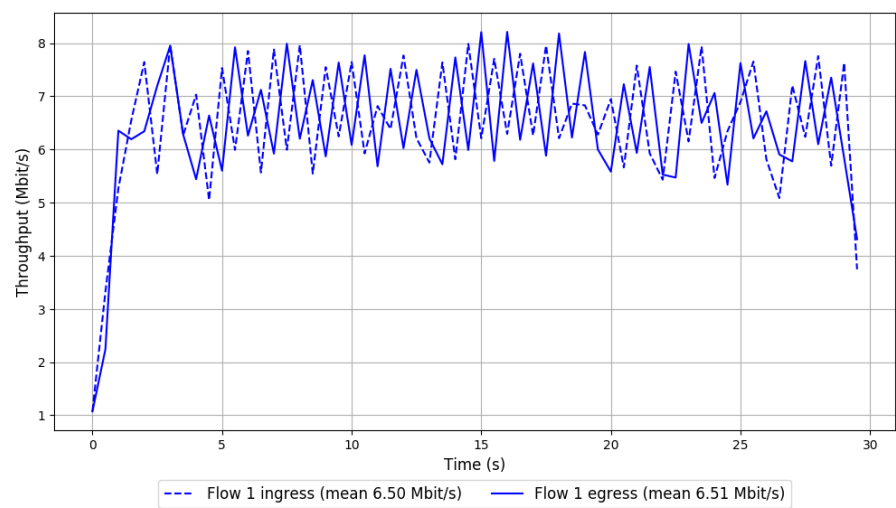
-- Flow 1:

Average throughput: 6.51 Mbit/s

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

Loss rate: 0.32%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-09 07:21:23

End at: 2018-01-09 07:21:53

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.671 ms

Loss rate: 0.58%

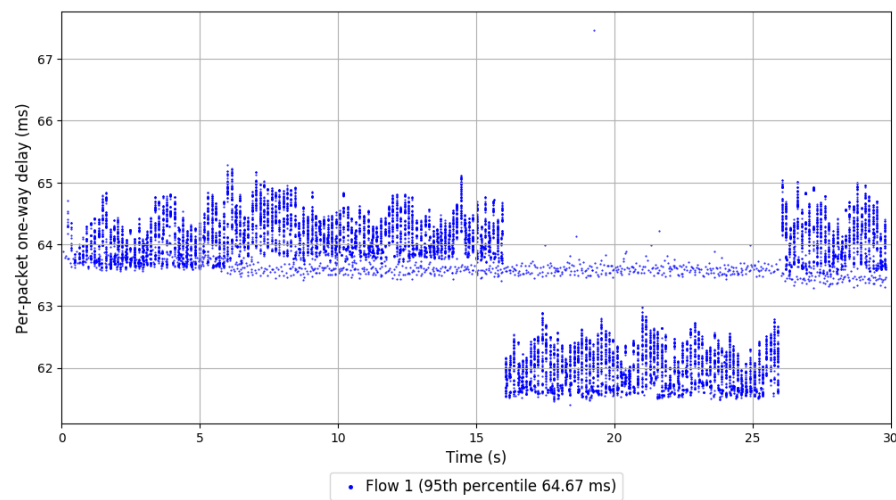
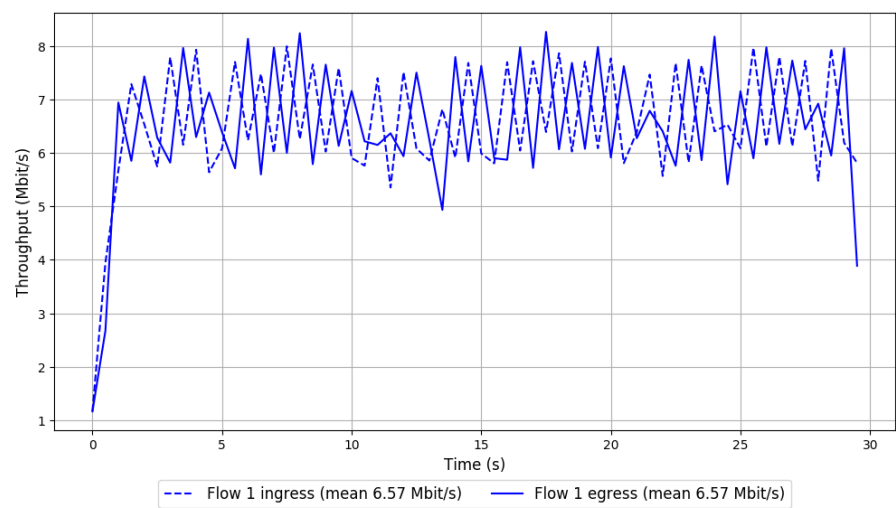
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.671 ms

Loss rate: 0.58%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-09 07:33:05

End at: 2018-01-09 07:33:35

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 64.546 ms

Loss rate: 0.97%

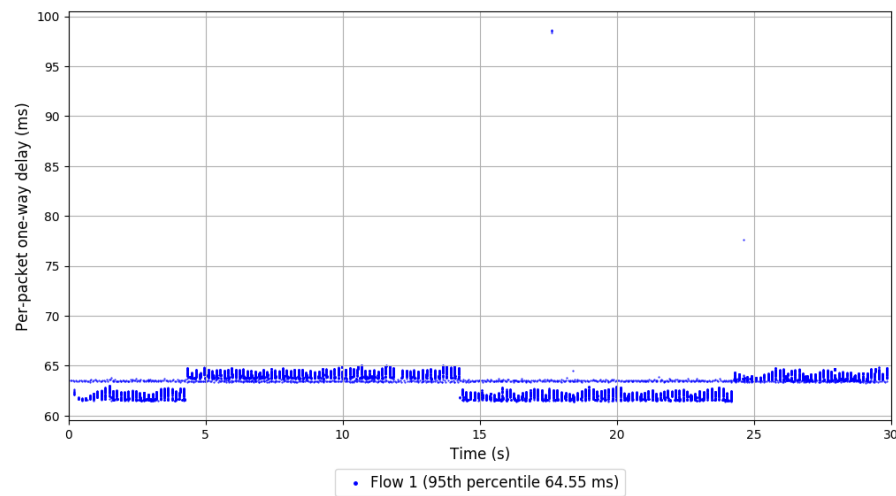
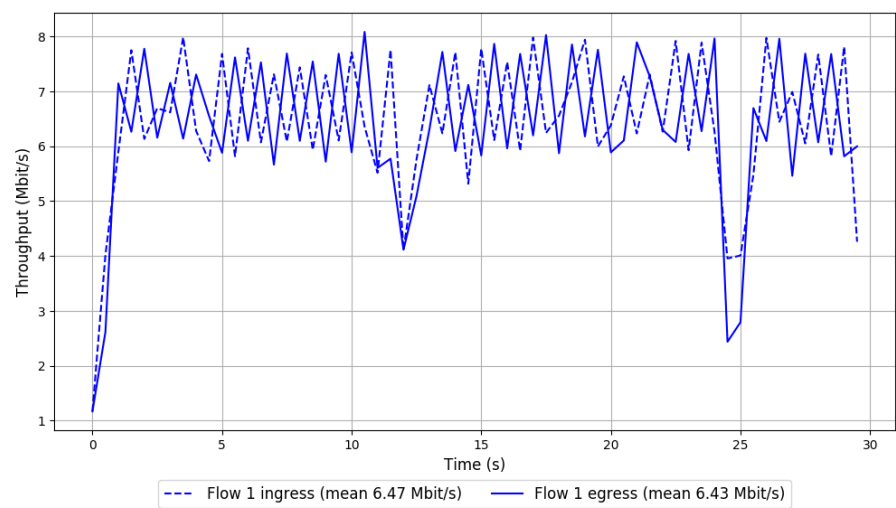
-- Flow 1:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 64.546 ms

Loss rate: 0.97%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-09 07:44:46

End at: 2018-01-09 07:45:16

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 64.336 ms

Loss rate: 1.05%

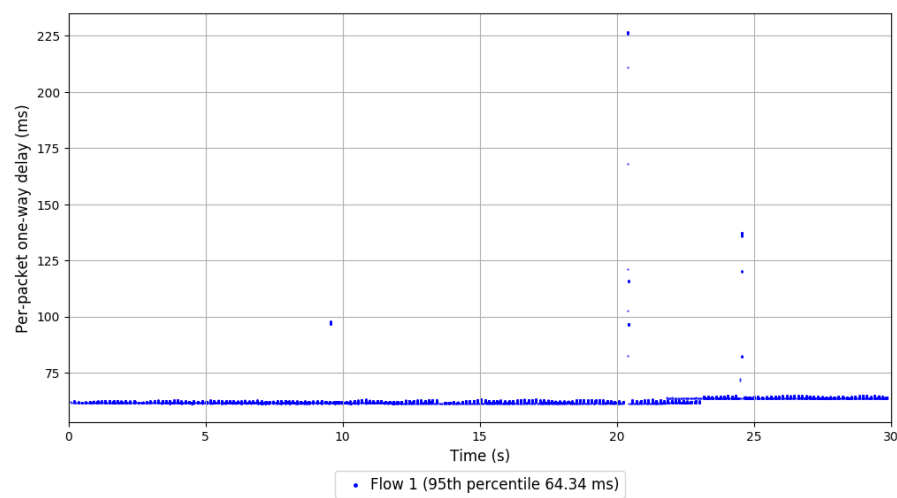
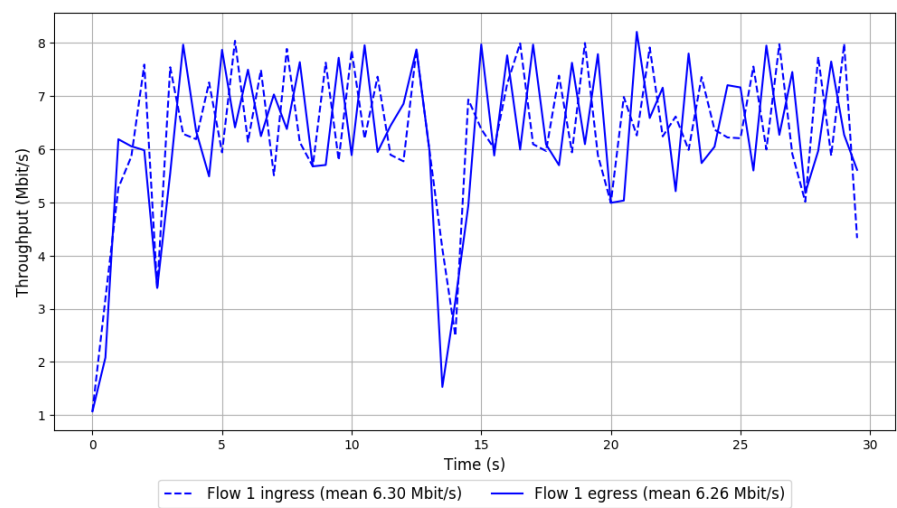
-- Flow 1:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 64.336 ms

Loss rate: 1.05%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-09 07:56:21

End at: 2018-01-09 07:56:51

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.552 ms

Loss rate: 0.58%

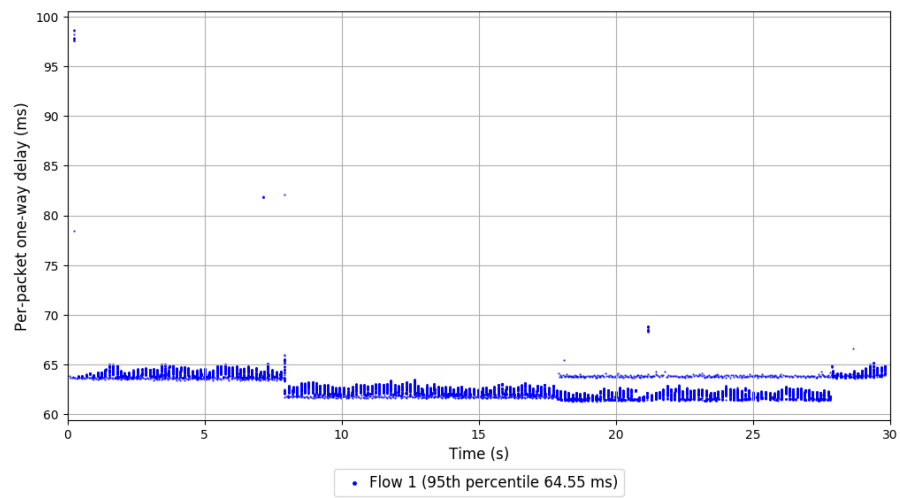
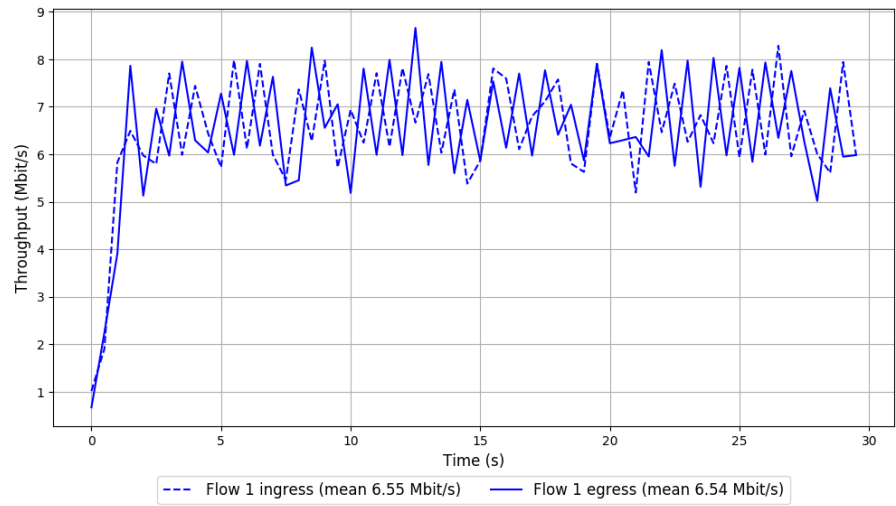
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.552 ms

Loss rate: 0.58%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-09 08:07:54

End at: 2018-01-09 08:08:24

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 64.759 ms

Loss rate: 0.51%

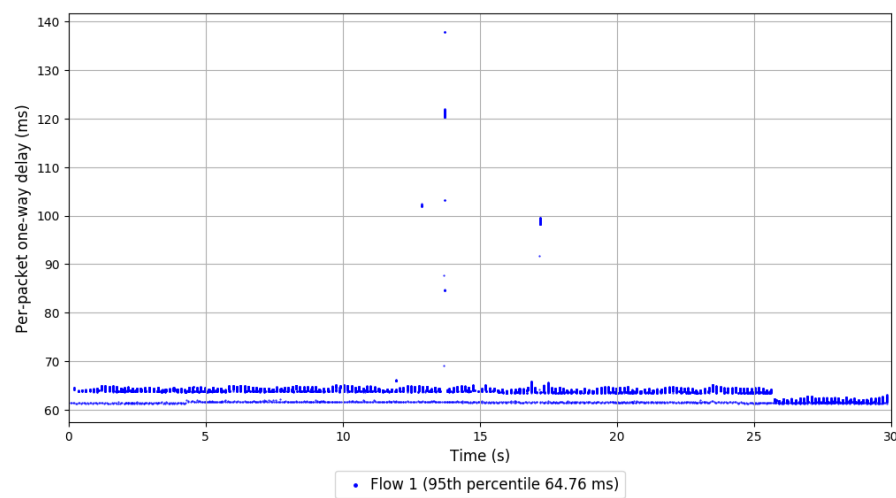
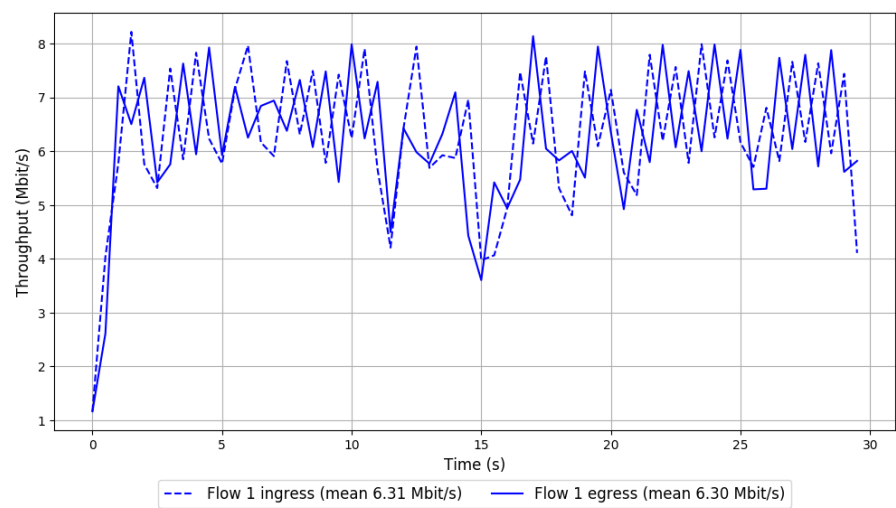
-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 64.759 ms

Loss rate: 0.51%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-09 08:18:33

End at: 2018-01-09 08:19:03

Below is generated by plot.py at 2018-01-09 10:44:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 62.950 ms

Loss rate: 0.99%

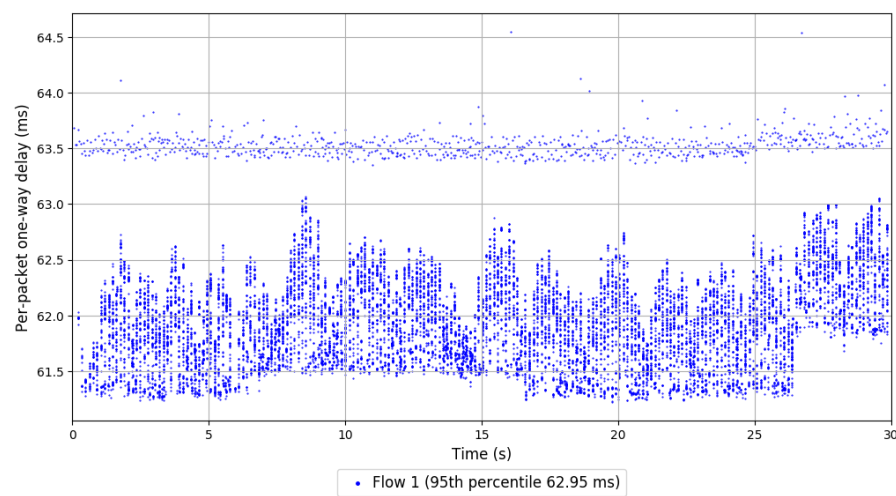
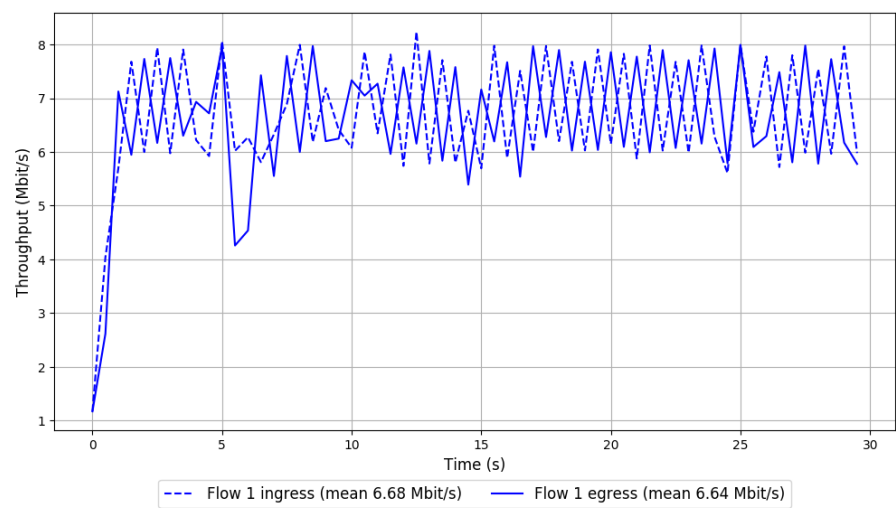
-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 62.950 ms

Loss rate: 0.99%

Run 10: Report of Sprout — Data Link

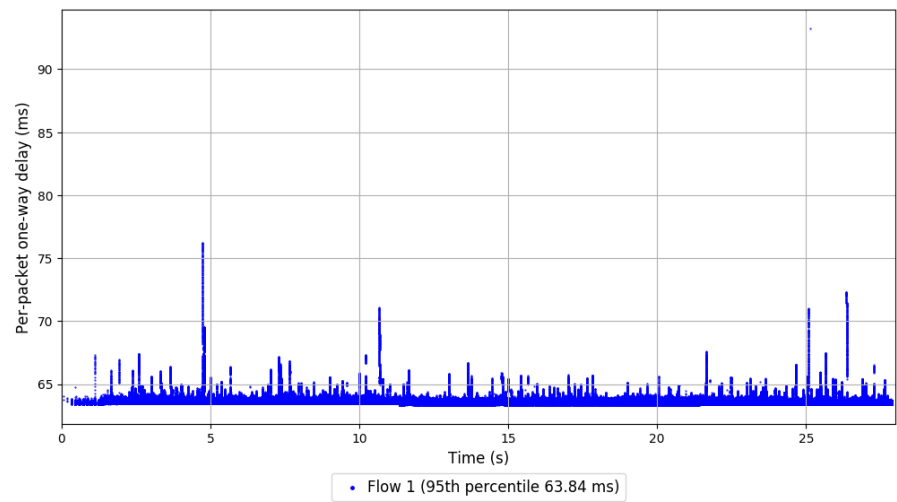
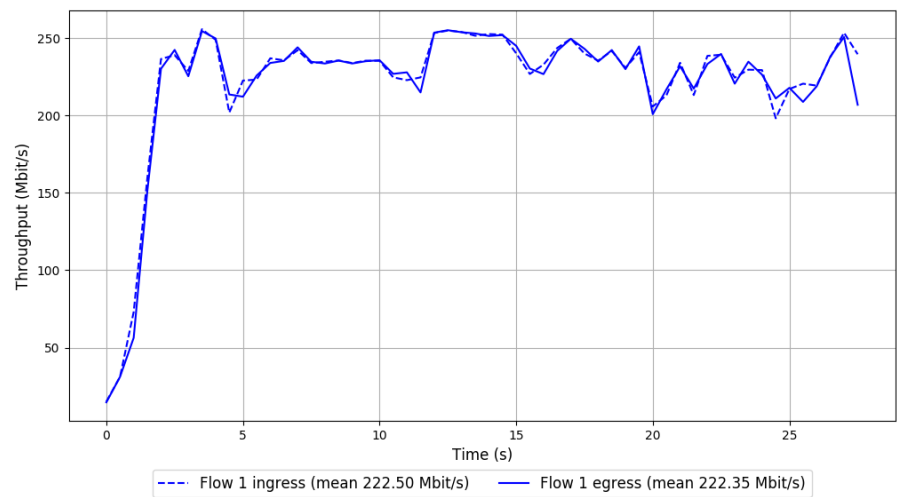


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-09 06:39:16
End at: 2018-01-09 06:39:46

# Below is generated by plot.py at 2018-01-09 10:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.35 Mbit/s
95th percentile per-packet one-way delay: 63.838 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 222.35 Mbit/s
95th percentile per-packet one-way delay: 63.838 ms
Loss rate: 0.53%
```


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

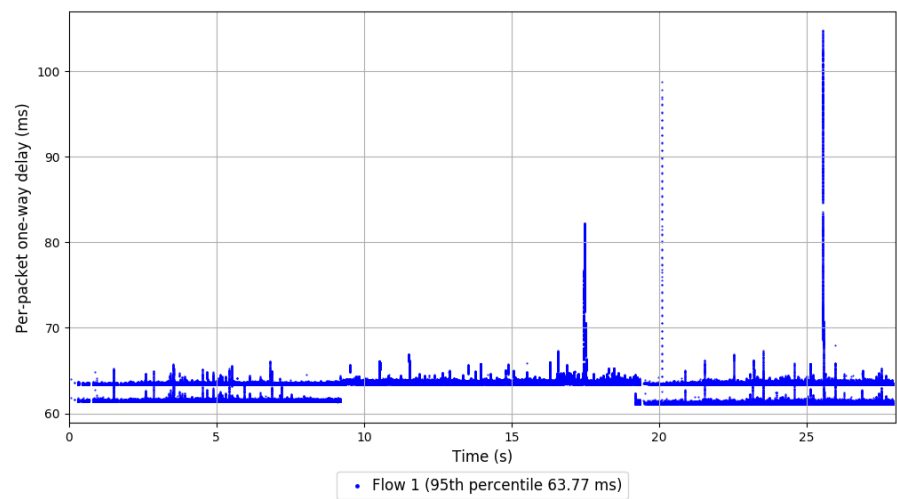
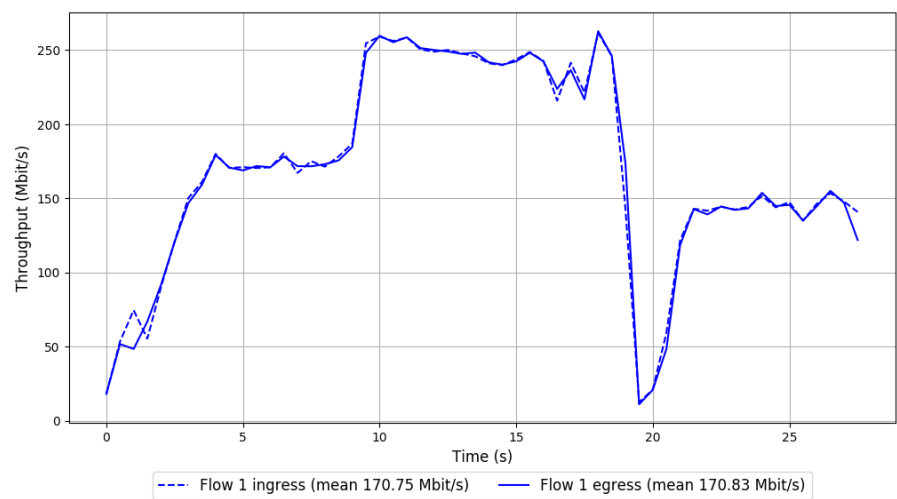


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-09 06:50:48
End at: 2018-01-09 06:51:18

# Below is generated by plot.py at 2018-01-09 10:48:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 170.83 Mbit/s
95th percentile per-packet one-way delay: 63.766 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 170.83 Mbit/s
95th percentile per-packet one-way delay: 63.766 ms
Loss rate: 0.41%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-09 07:01:48

End at: 2018-01-09 07:02:18

Below is generated by plot.py at 2018-01-09 10:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.18 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 0.22%

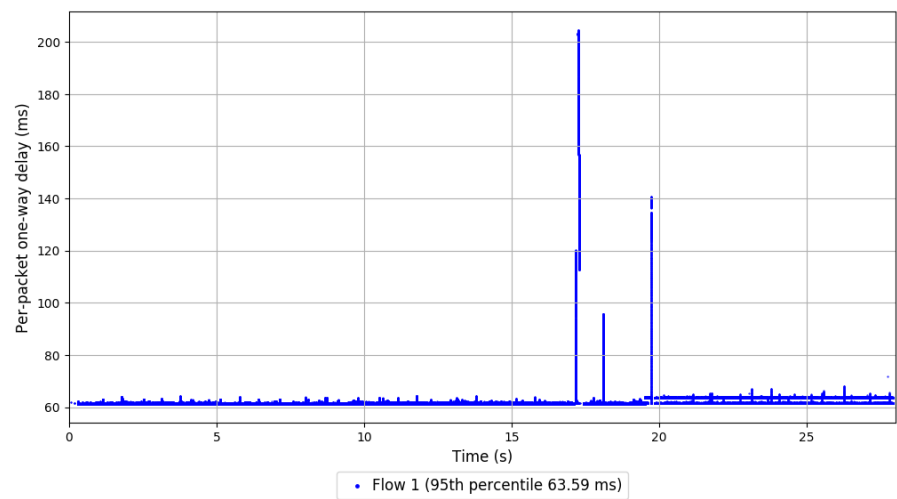
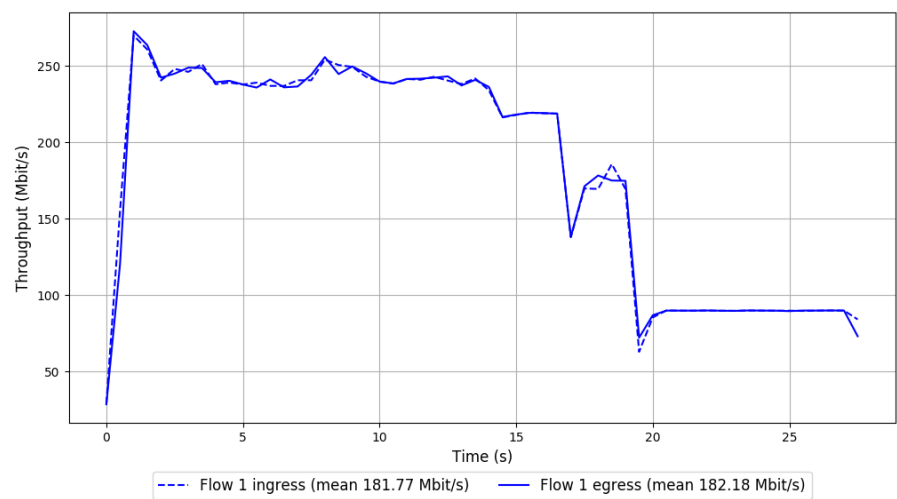
-- Flow 1:

Average throughput: 182.18 Mbit/s

95th percentile per-packet one-way delay: 63.595 ms

Loss rate: 0.22%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-09 07:13:05

End at: 2018-01-09 07:13:35

Below is generated by plot.py at 2018-01-09 10:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.48 Mbit/s

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

Loss rate: 0.37%

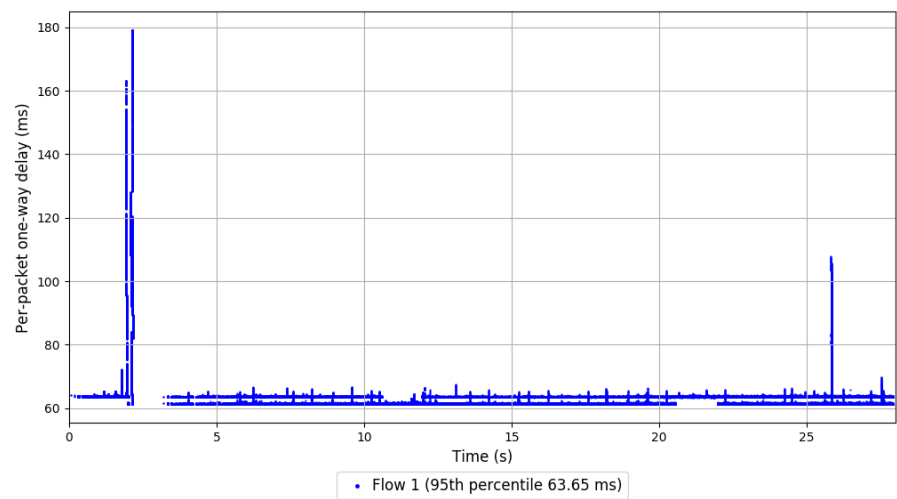
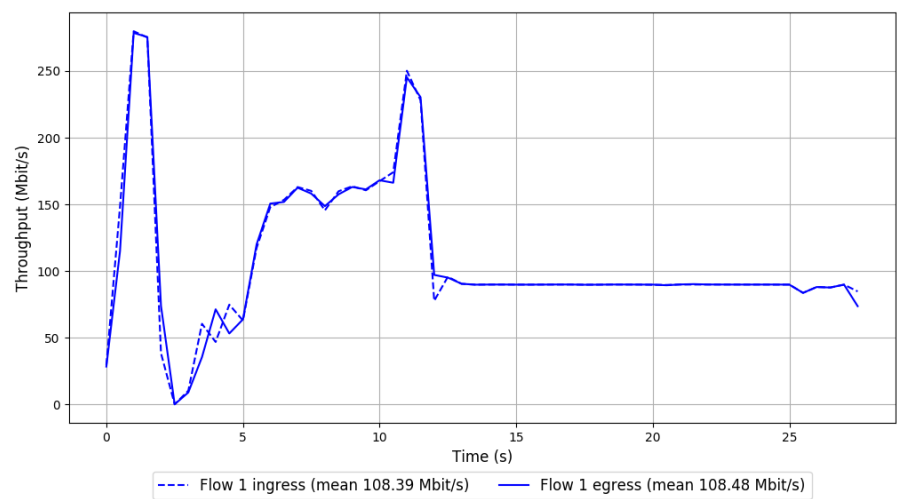
-- Flow 1:

Average throughput: 108.48 Mbit/s

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

Loss rate: 0.37%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-09 07:24:37

End at: 2018-01-09 07:25:07

Below is generated by plot.py at 2018-01-09 10:50:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.33 Mbit/s

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

Loss rate: 0.53%

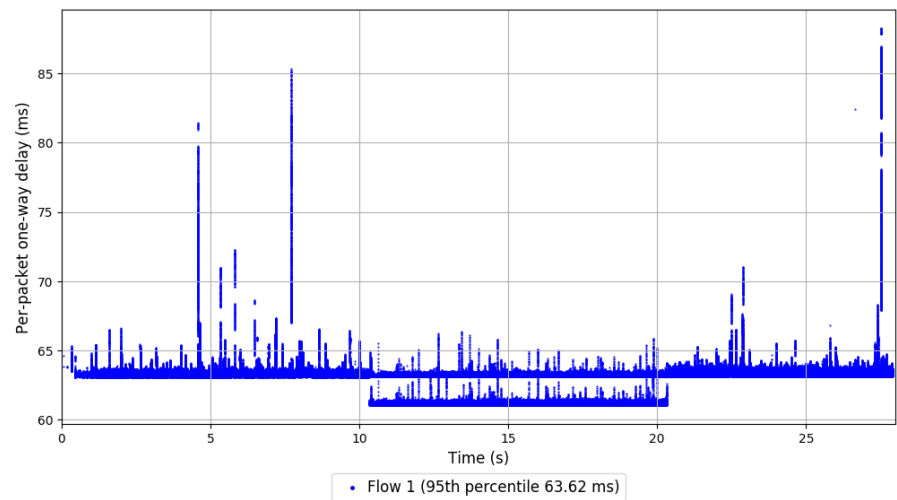
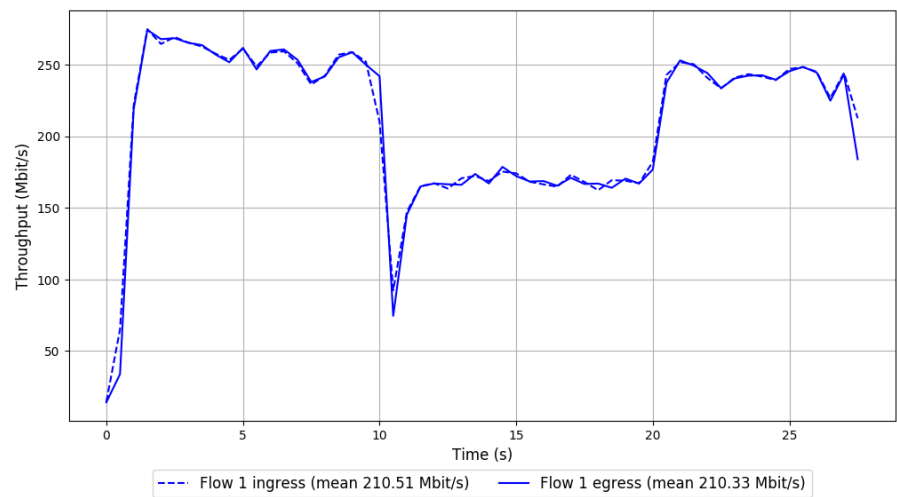
-- Flow 1:

Average throughput: 210.33 Mbit/s

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

Loss rate: 0.53%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-09 07:36:32

End at: 2018-01-09 07:37:02

Below is generated by plot.py at 2018-01-09 10:50:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.45 Mbit/s

95th percentile per-packet one-way delay: 63.750 ms

Loss rate: 0.25%

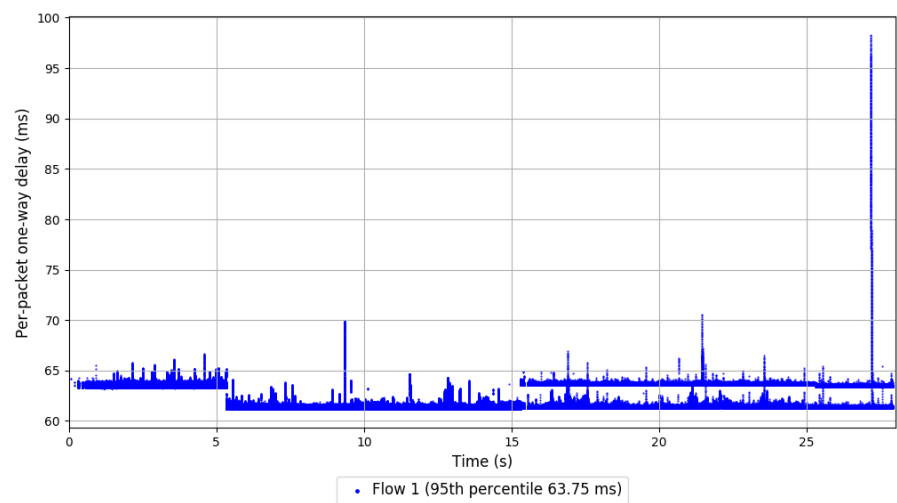
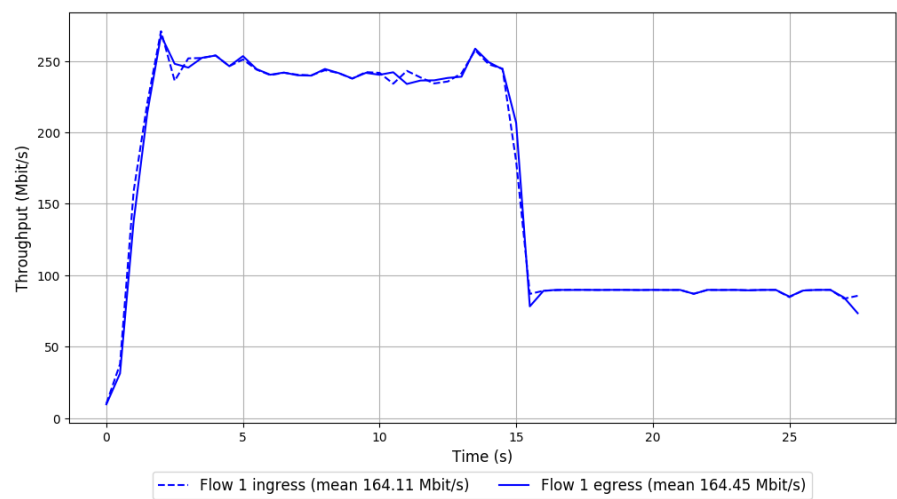
-- Flow 1:

Average throughput: 164.45 Mbit/s

95th percentile per-packet one-way delay: 63.750 ms

Loss rate: 0.25%

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

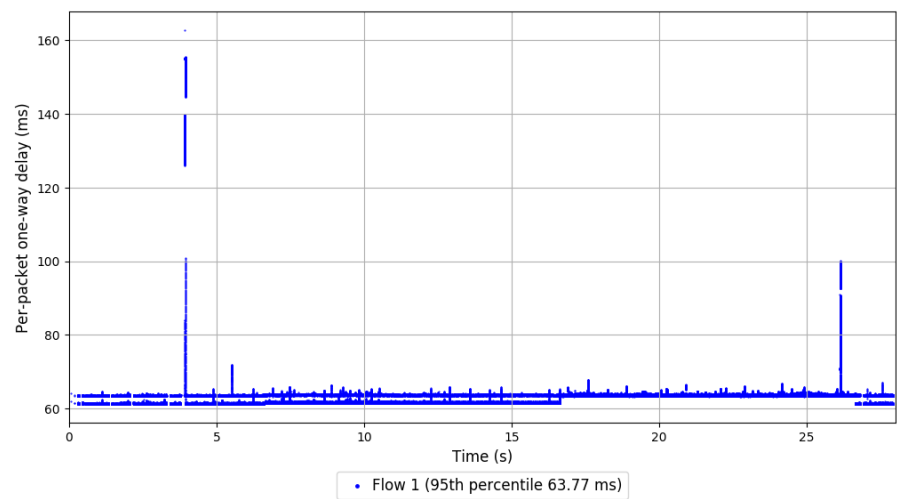
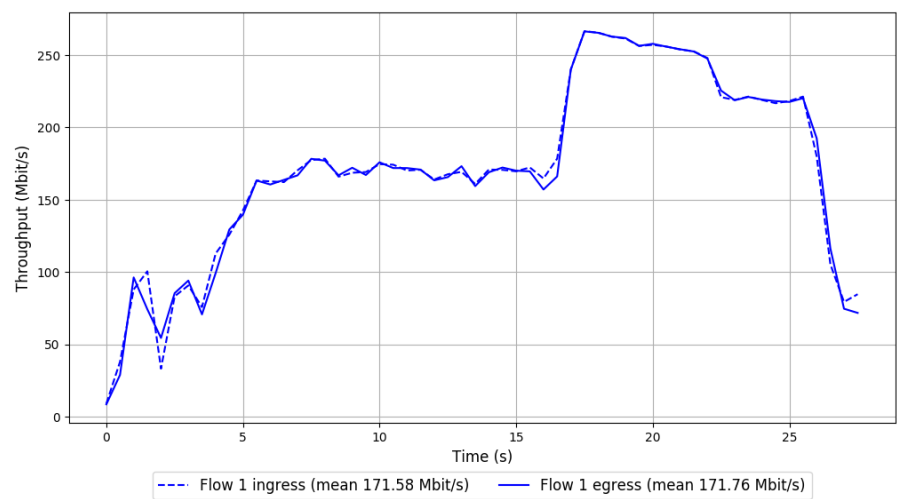


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-09 07:48:01
End at: 2018-01-09 07:48:31

# Below is generated by plot.py at 2018-01-09 10:50:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.76 Mbit/s
95th percentile per-packet one-way delay: 63.775 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 171.76 Mbit/s
95th percentile per-packet one-way delay: 63.775 ms
Loss rate: 0.34%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-09 07:59:36

End at: 2018-01-09 08:00:06

Below is generated by plot.py at 2018-01-09 10:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.18 Mbit/s

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

Loss rate: 0.32%

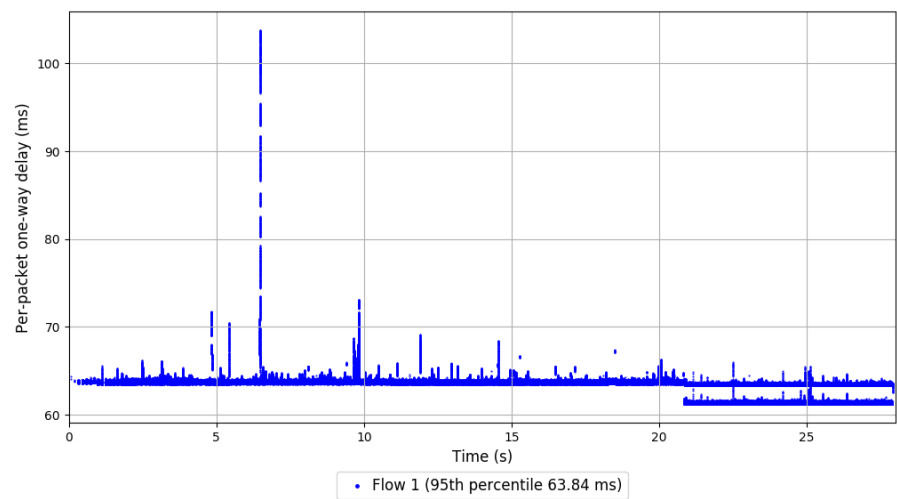
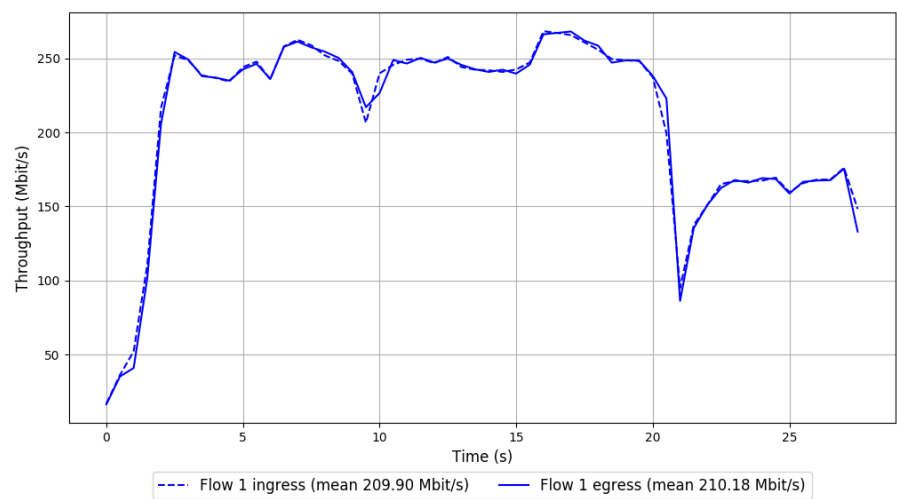
-- Flow 1:

Average throughput: 210.18 Mbit/s

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

Loss rate: 0.32%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-09 08:10:49

End at: 2018-01-09 08:11:19

Below is generated by plot.py at 2018-01-09 10:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.21 Mbit/s

95th percentile per-packet one-way delay: 63.643 ms

Loss rate: 0.27%

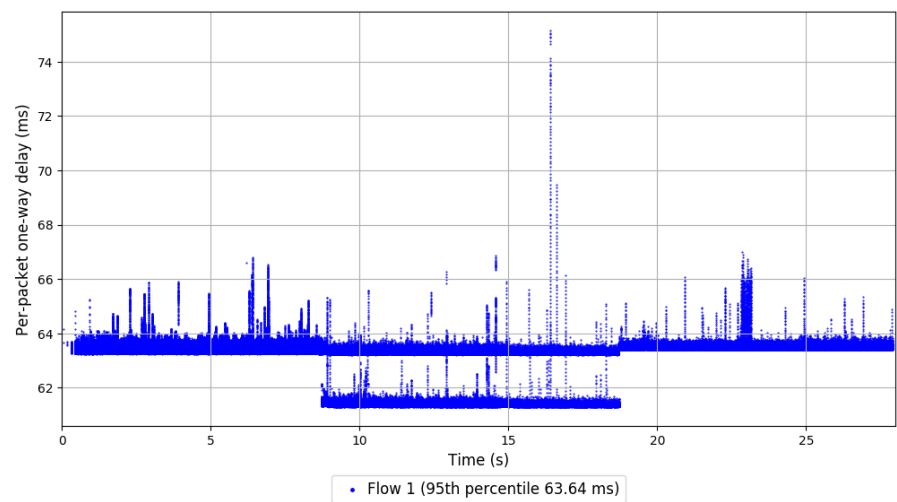
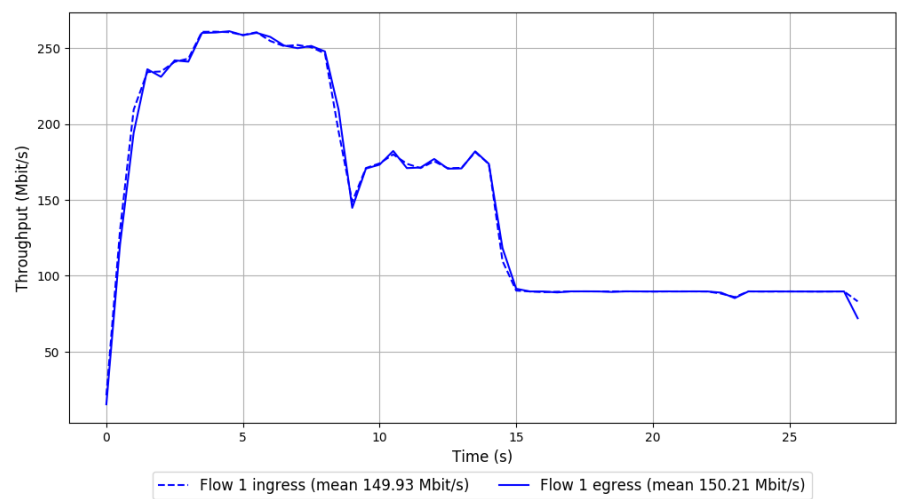
-- Flow 1:

Average throughput: 150.21 Mbit/s

95th percentile per-packet one-way delay: 63.643 ms

Loss rate: 0.27%

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

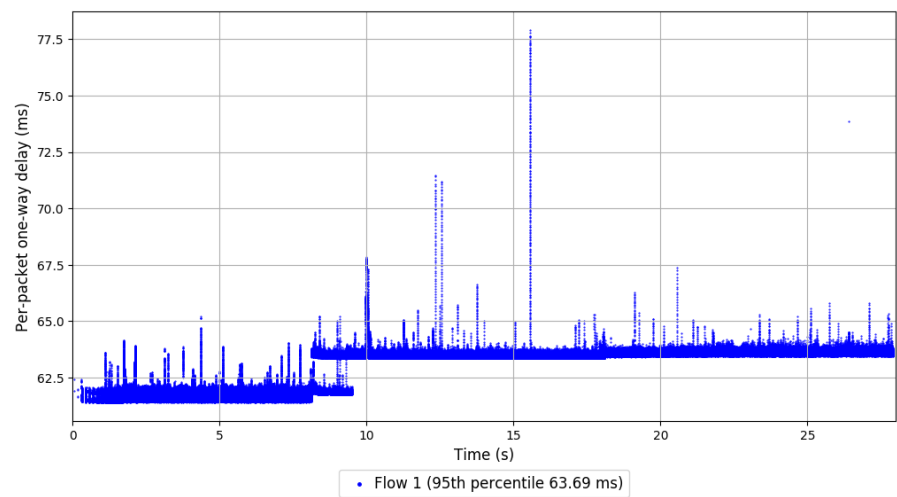
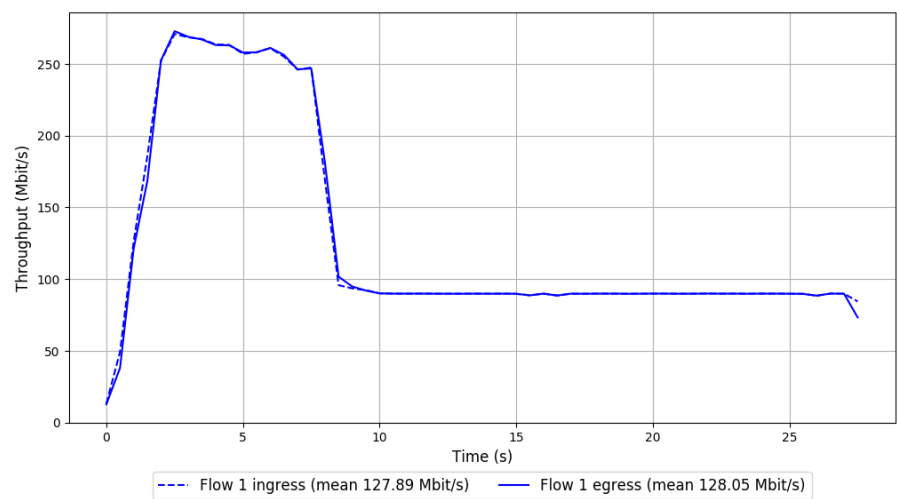


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-09 08:21:28
End at: 2018-01-09 08:21:58

# Below is generated by plot.py at 2018-01-09 10:50:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 128.05 Mbit/s
95th percentile per-packet one-way delay: 63.694 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 128.05 Mbit/s
95th percentile per-packet one-way delay: 63.694 ms
Loss rate: 0.32%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-09 06:42:57

End at: 2018-01-09 06:43:27

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.41 Mbit/s

95th percentile per-packet one-way delay: 64.759 ms

Loss rate: 1.06%

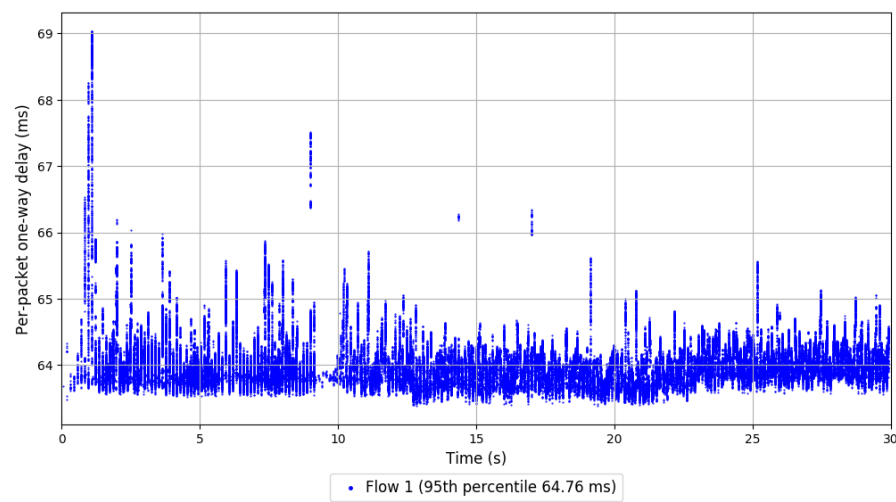
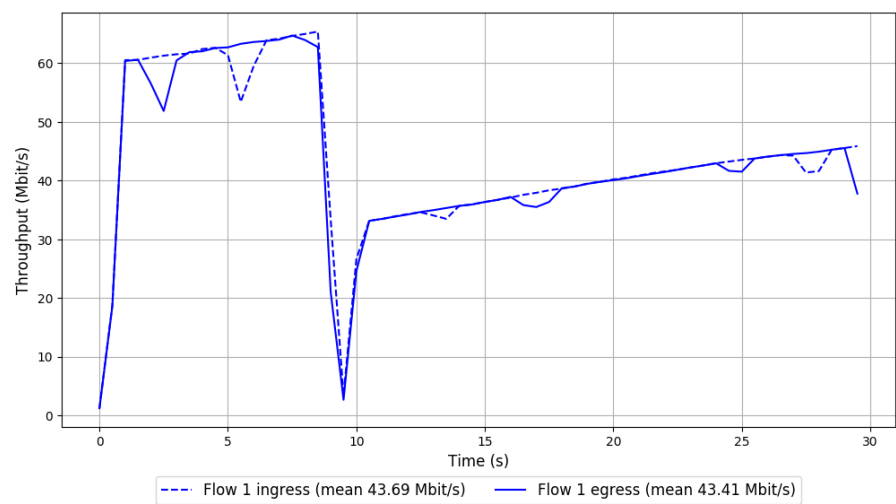
-- Flow 1:

Average throughput: 43.41 Mbit/s

95th percentile per-packet one-way delay: 64.759 ms

Loss rate: 1.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-09 06:54:03

End at: 2018-01-09 06:54:33

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 64.745 ms

Loss rate: 0.33%

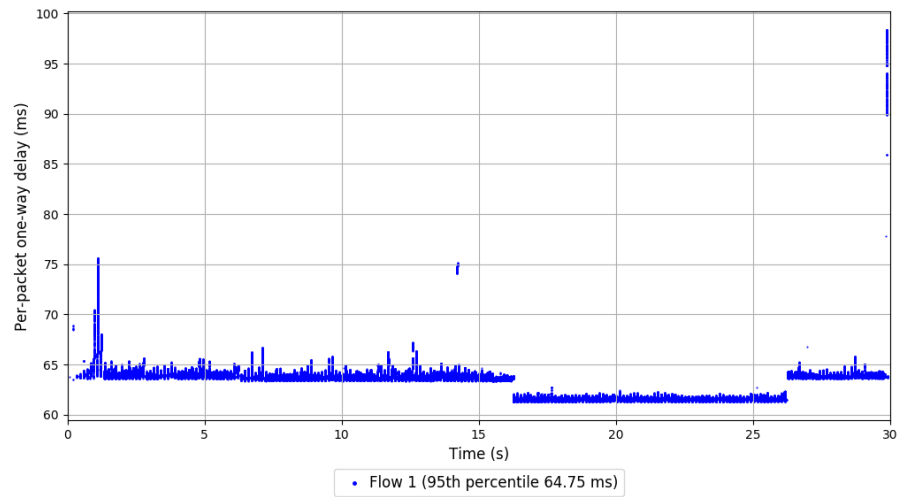
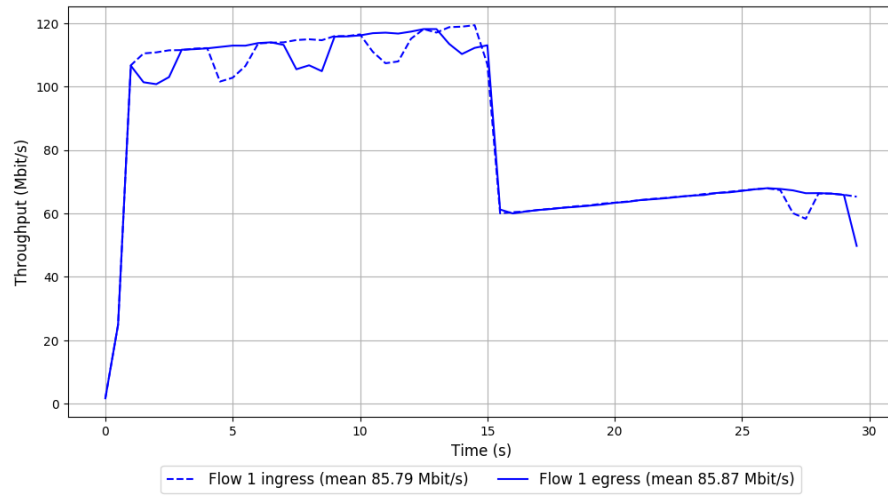
-- Flow 1:

Average throughput: 85.87 Mbit/s

95th percentile per-packet one-way delay: 64.745 ms

Loss rate: 0.33%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-09 07:05:04

End at: 2018-01-09 07:05:34

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.81 Mbit/s

95th percentile per-packet one-way delay: 64.370 ms

Loss rate: 0.44%

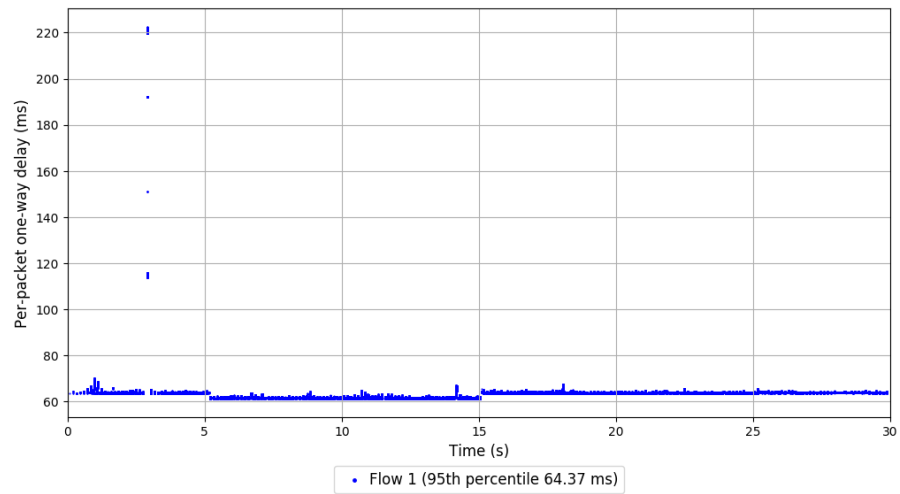
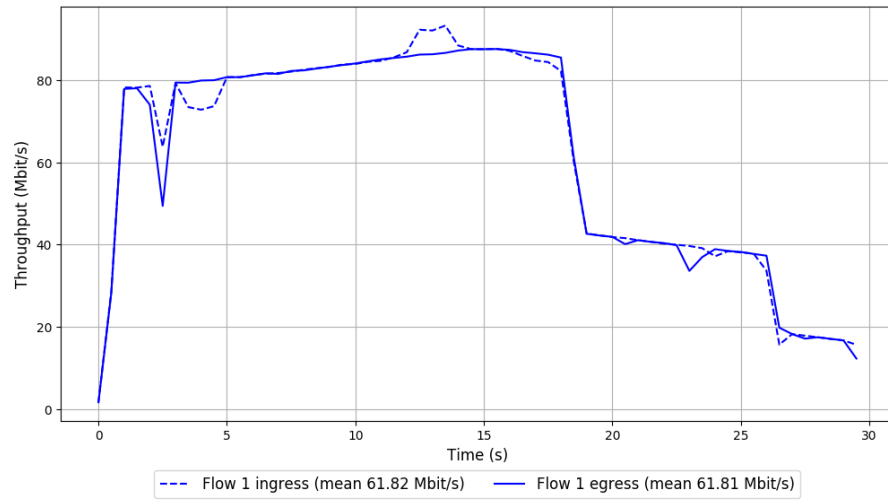
-- Flow 1:

Average throughput: 61.81 Mbit/s

95th percentile per-packet one-way delay: 64.370 ms

Loss rate: 0.44%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-09 07:16:36

End at: 2018-01-09 07:17:06

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.41 Mbit/s

95th percentile per-packet one-way delay: 64.679 ms

Loss rate: 0.43%

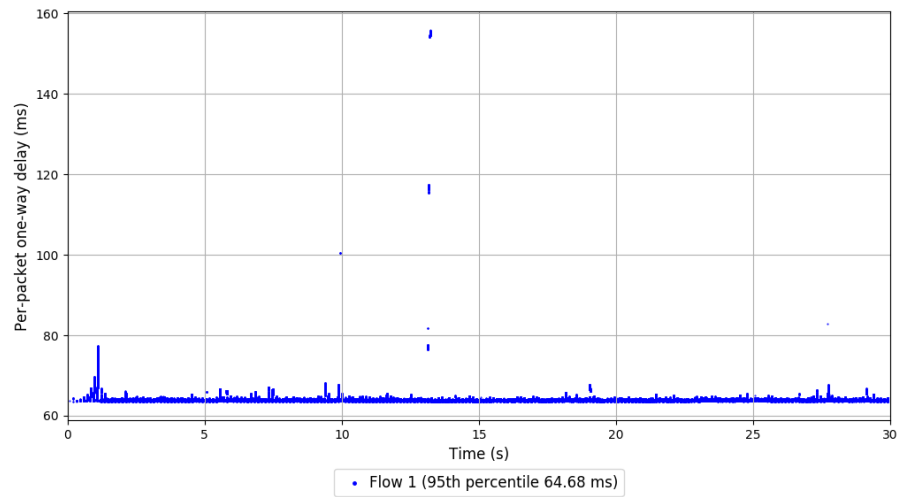
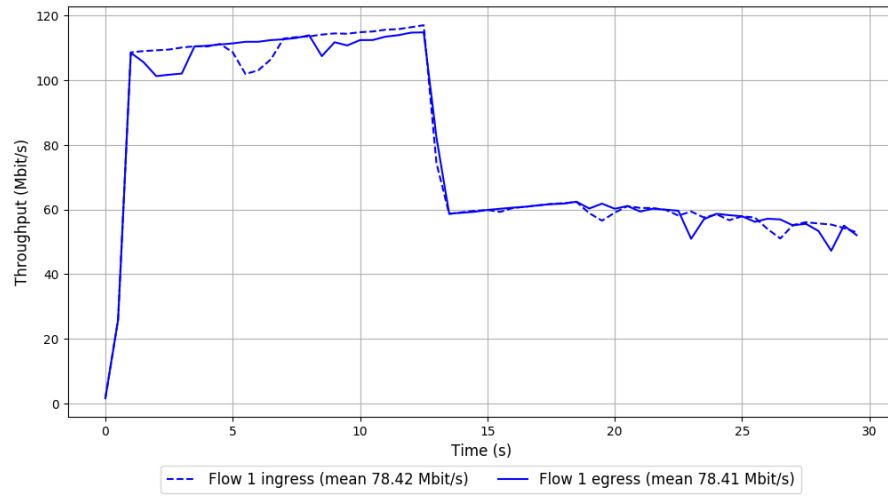
-- Flow 1:

Average throughput: 78.41 Mbit/s

95th percentile per-packet one-way delay: 64.679 ms

Loss rate: 0.43%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-09 07:28:20

End at: 2018-01-09 07:28:50

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.55 Mbit/s

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

Loss rate: 0.83%

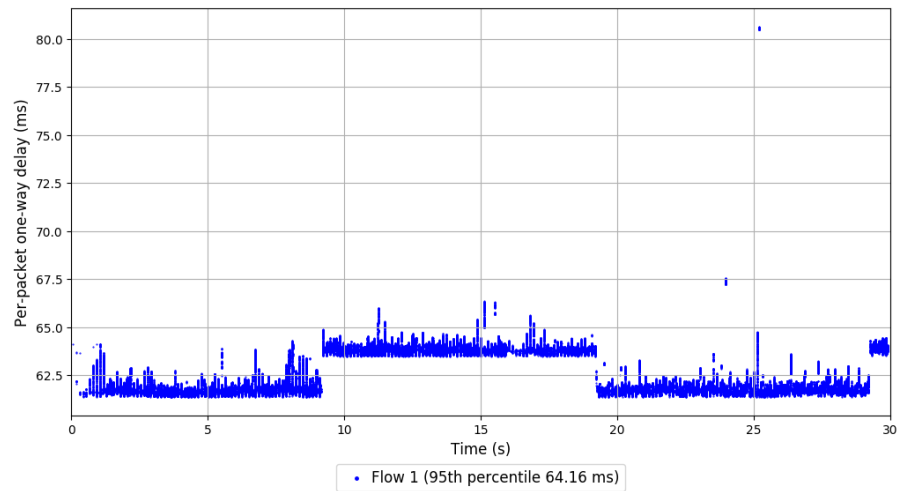
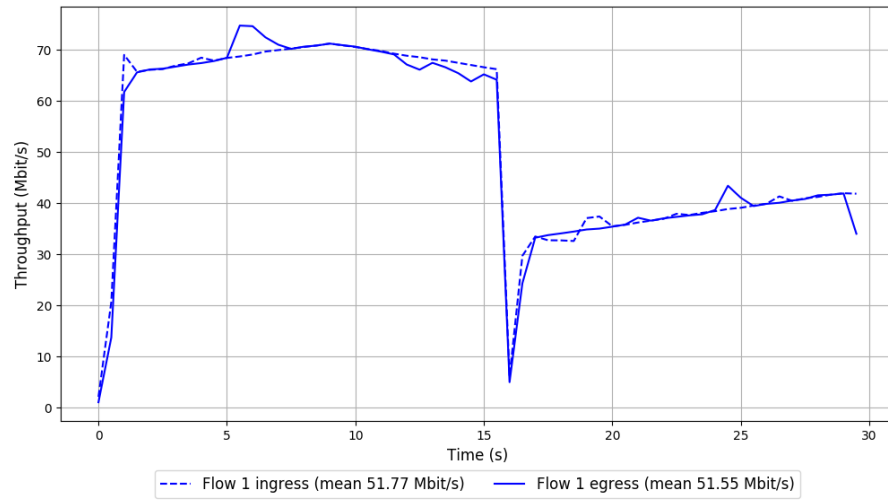
-- Flow 1:

Average throughput: 51.55 Mbit/s

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

Loss rate: 0.83%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-09 07:40:04

End at: 2018-01-09 07:40:34

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 64.194 ms

Loss rate: 0.37%

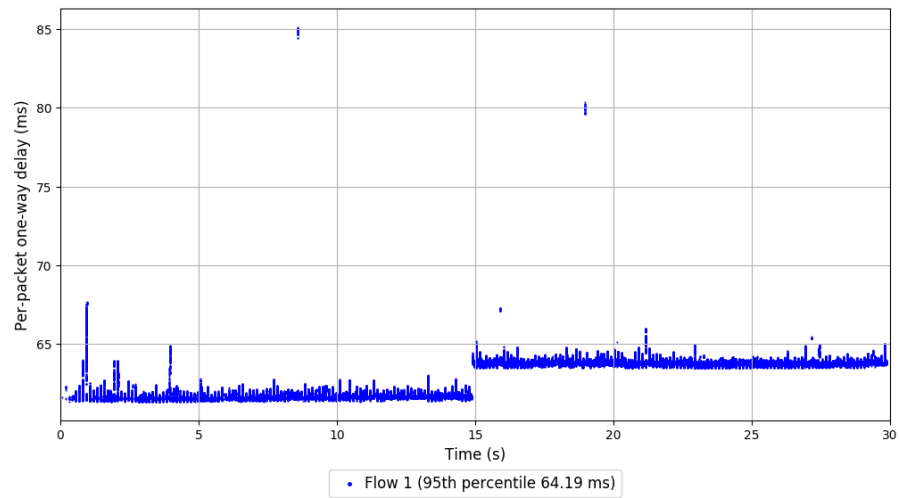
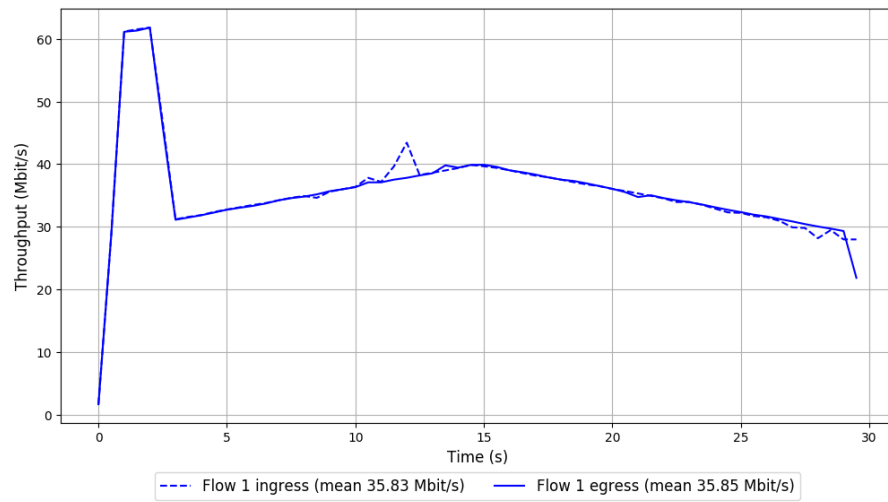
-- Flow 1:

Average throughput: 35.85 Mbit/s

95th percentile per-packet one-way delay: 64.194 ms

Loss rate: 0.37%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-09 07:51:34

End at: 2018-01-09 07:52:04

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.49 Mbit/s

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

Loss rate: 0.41%

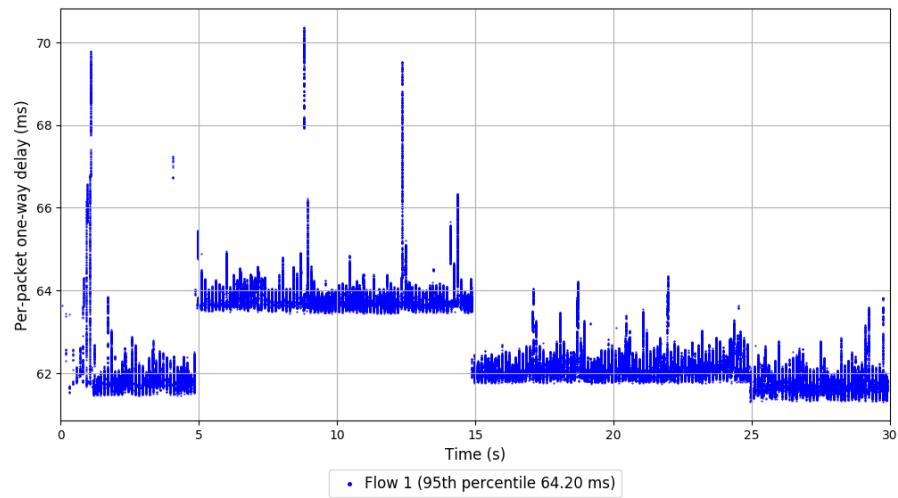
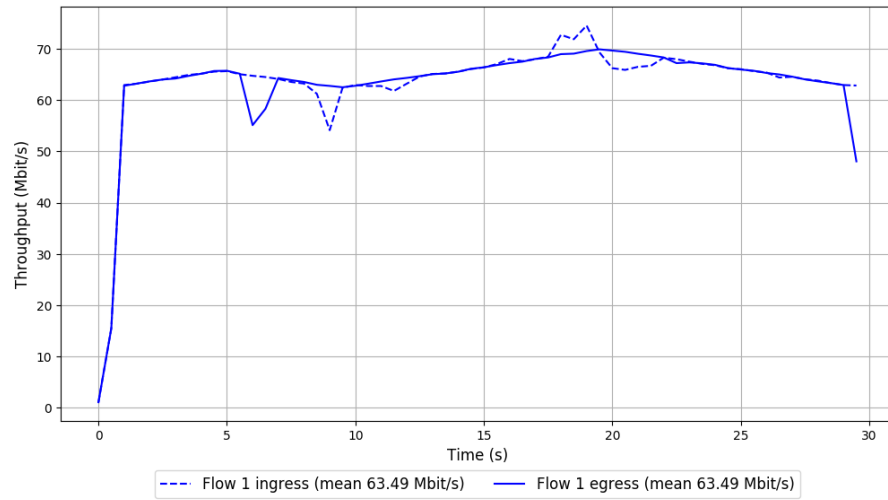
-- Flow 1:

Average throughput: 63.49 Mbit/s

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

Loss rate: 0.41%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-09 08:03:12

End at: 2018-01-09 08:03:42

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 64.365 ms

Loss rate: 1.45%

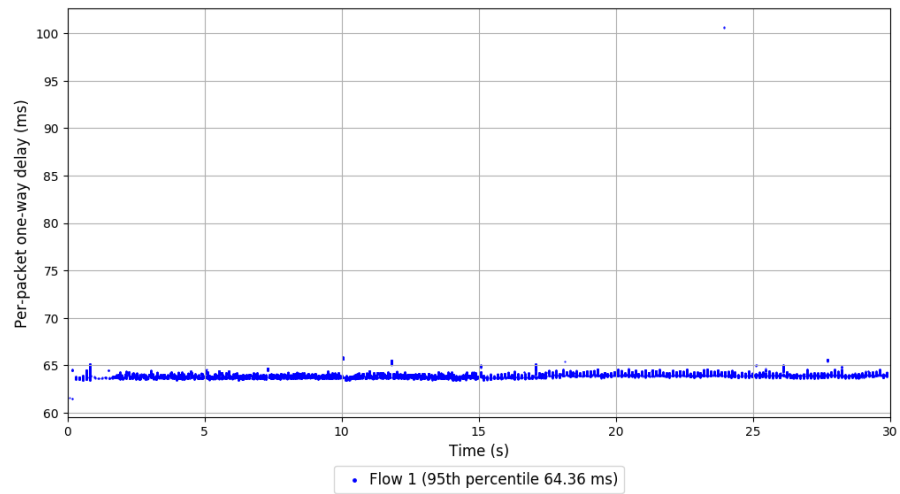
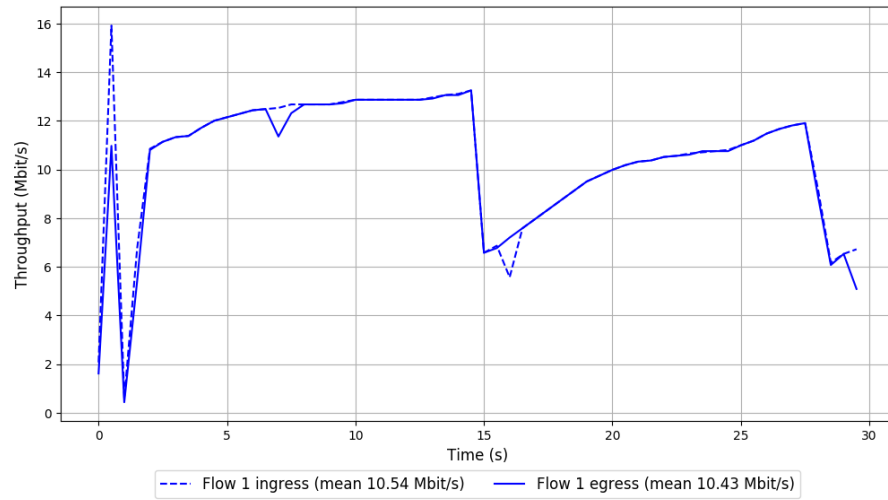
-- Flow 1:

Average throughput: 10.43 Mbit/s

95th percentile per-packet one-way delay: 64.365 ms

Loss rate: 1.45%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-09 08:13:49

End at: 2018-01-09 08:14:19

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 64.729 ms

Loss rate: 1.18%

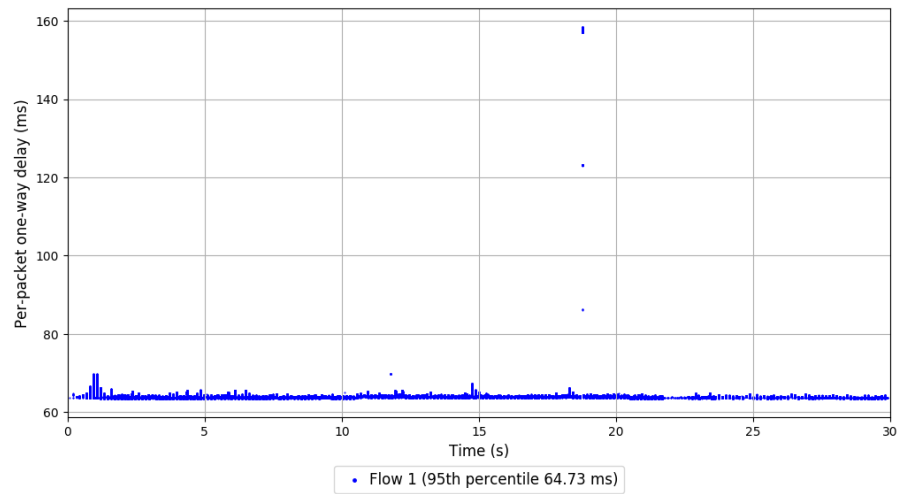
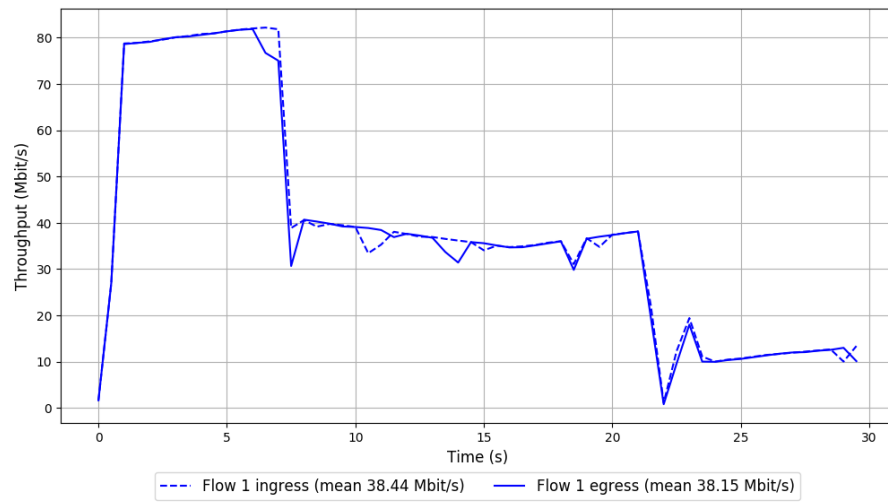
-- Flow 1:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 64.729 ms

Loss rate: 1.18%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-09 08:24:40

End at: 2018-01-09 08:25:10

Below is generated by plot.py at 2018-01-09 10:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.15 Mbit/s

95th percentile per-packet one-way delay: 64.163 ms

Loss rate: 1.08%

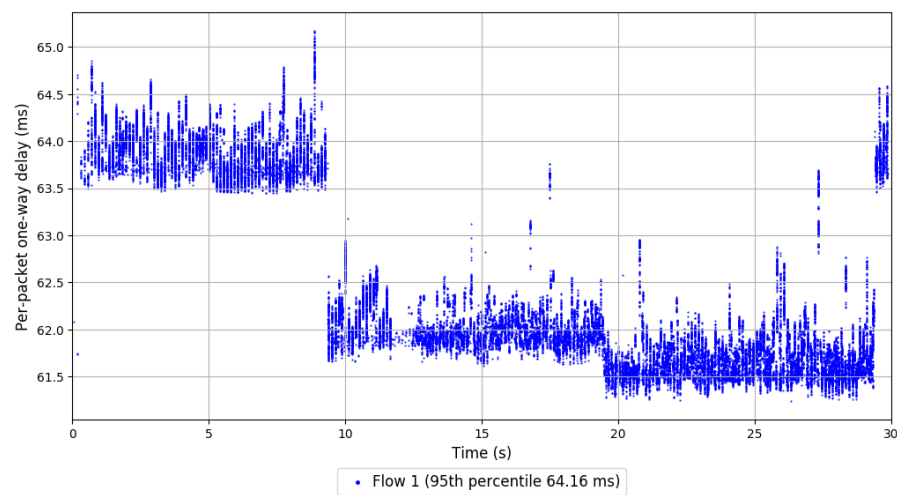
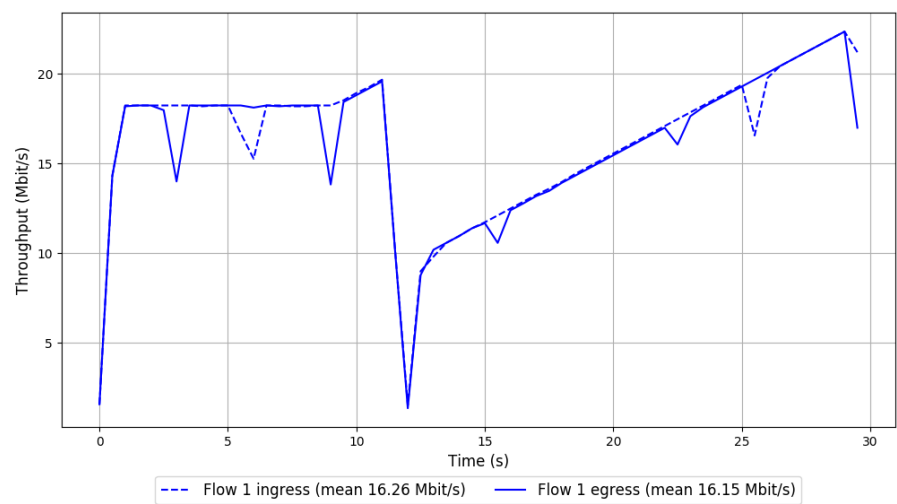
-- Flow 1:

Average throughput: 16.15 Mbit/s

95th percentile per-packet one-way delay: 64.163 ms

Loss rate: 1.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-09 06:42:01

End at: 2018-01-09 06:42:31

Below is generated by plot.py at 2018-01-09 10:54:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.72 Mbit/s

95th percentile per-packet one-way delay: 115.211 ms

Loss rate: 0.01%

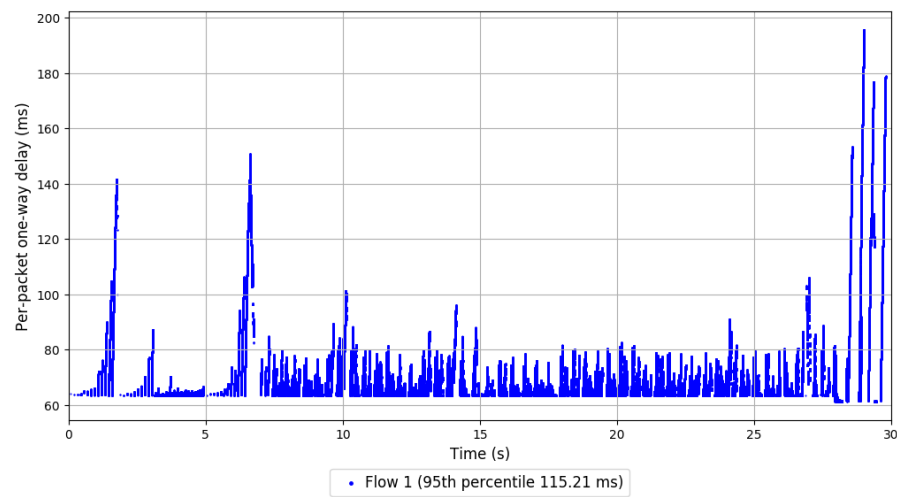
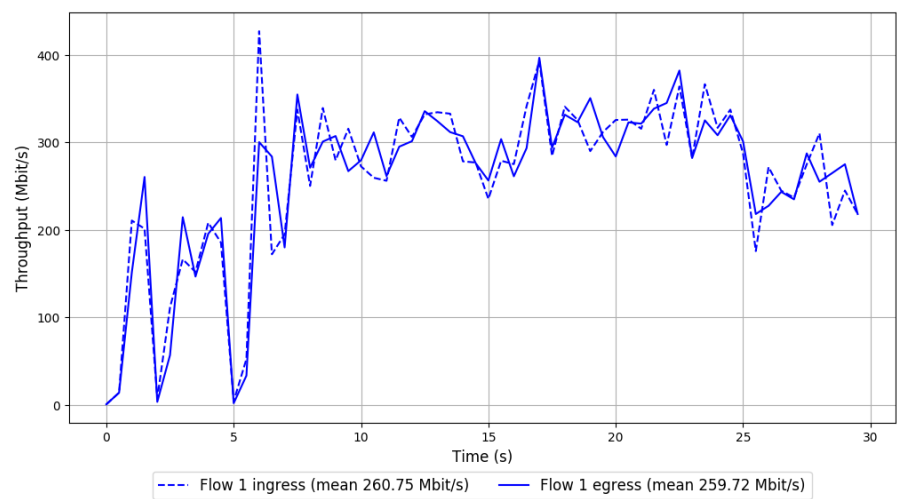
-- Flow 1:

Average throughput: 259.72 Mbit/s

95th percentile per-packet one-way delay: 115.211 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-09 06:53:08

End at: 2018-01-09 06:53:38

Below is generated by plot.py at 2018-01-09 10:54:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.09 Mbit/s

95th percentile per-packet one-way delay: 99.264 ms

Loss rate: 0.18%

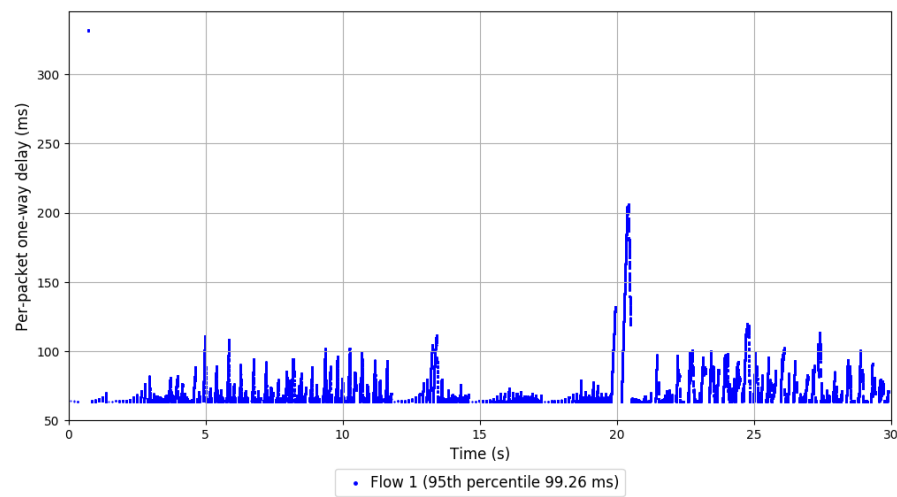
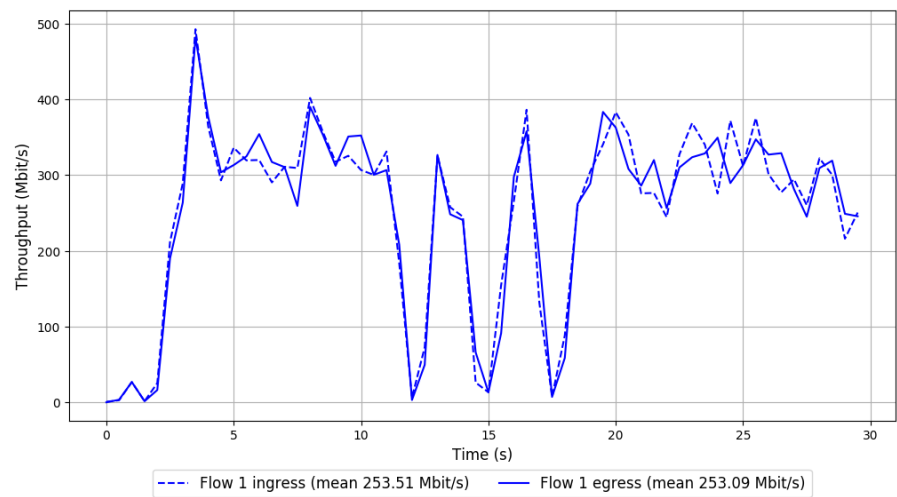
-- Flow 1:

Average throughput: 253.09 Mbit/s

95th percentile per-packet one-way delay: 99.264 ms

Loss rate: 0.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-09 07:04:10

End at: 2018-01-09 07:04:40

Below is generated by plot.py at 2018-01-09 10:54:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.42 Mbit/s

95th percentile per-packet one-way delay: 94.791 ms

Loss rate: 0.72%

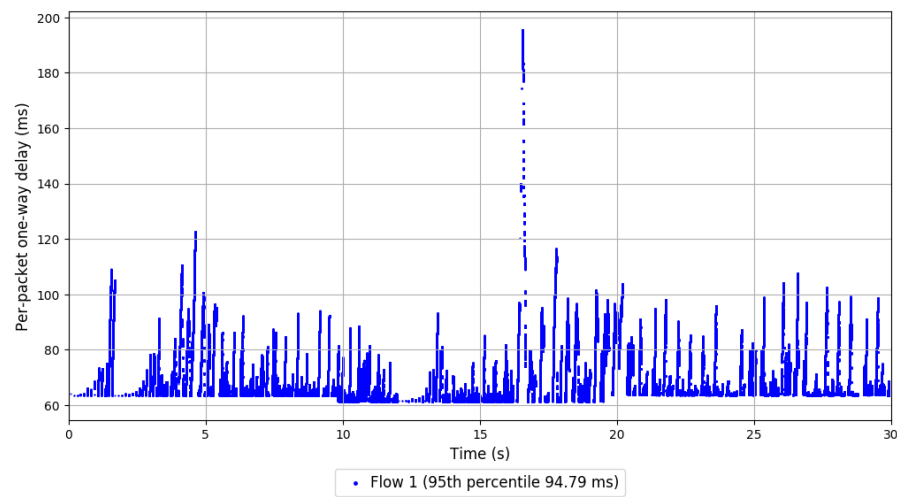
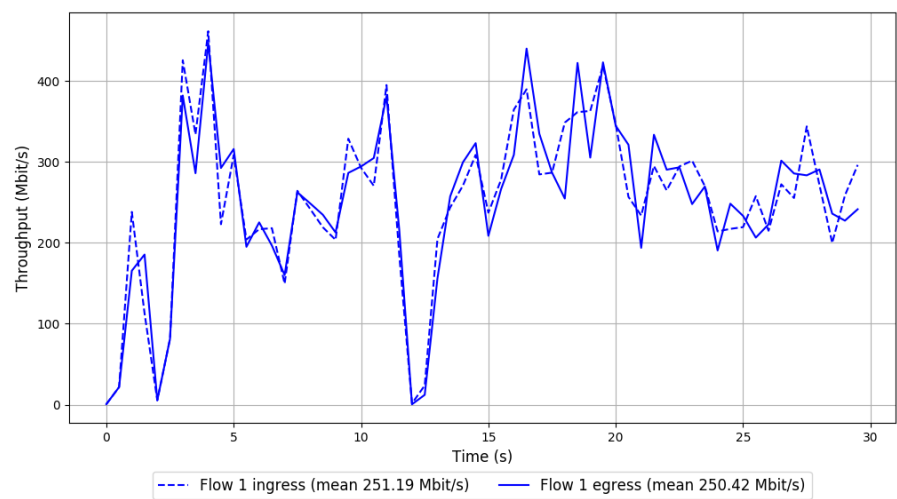
-- Flow 1:

Average throughput: 250.42 Mbit/s

95th percentile per-packet one-way delay: 94.791 ms

Loss rate: 0.72%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-09 07:15:41

End at: 2018-01-09 07:16:11

Below is generated by plot.py at 2018-01-09 10:54:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.78 Mbit/s

95th percentile per-packet one-way delay: 98.738 ms

Loss rate: 0.64%

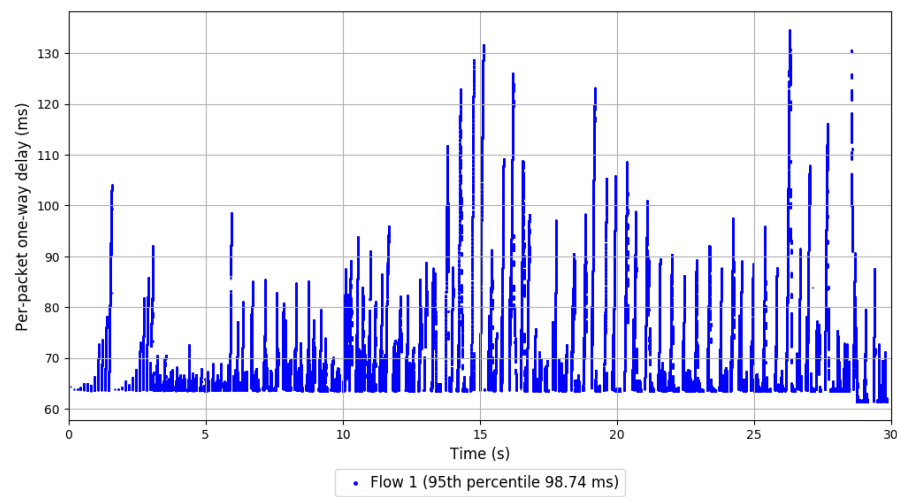
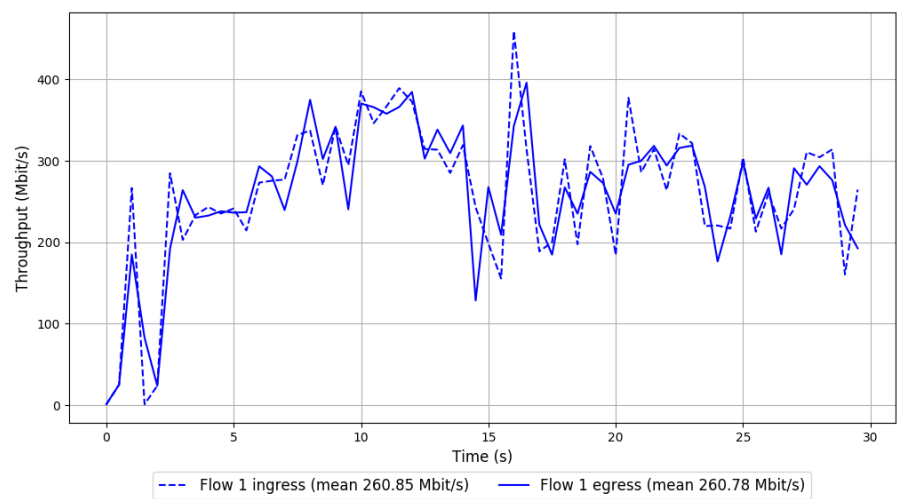
-- Flow 1:

Average throughput: 260.78 Mbit/s

95th percentile per-packet one-way delay: 98.738 ms

Loss rate: 0.64%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-09 07:27:25

End at: 2018-01-09 07:27:55

Below is generated by plot.py at 2018-01-09 10:54:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.99 Mbit/s

95th percentile per-packet one-way delay: 85.988 ms

Loss rate: 0.00%

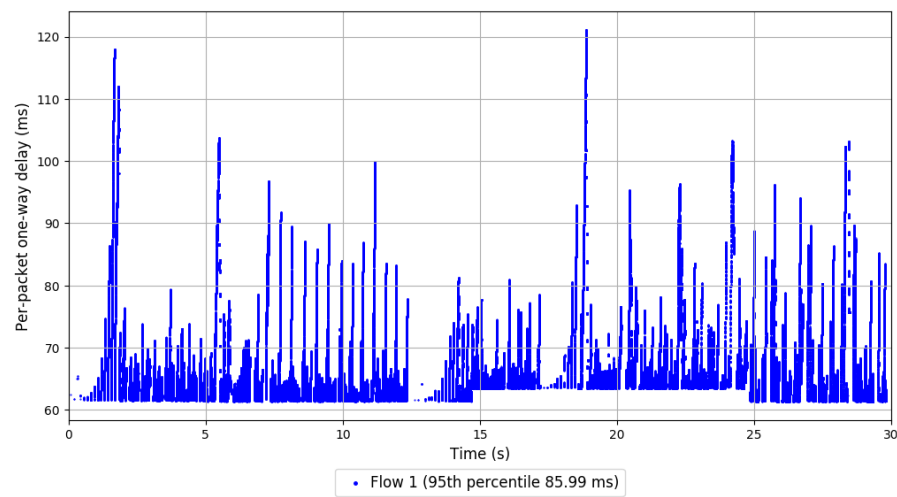
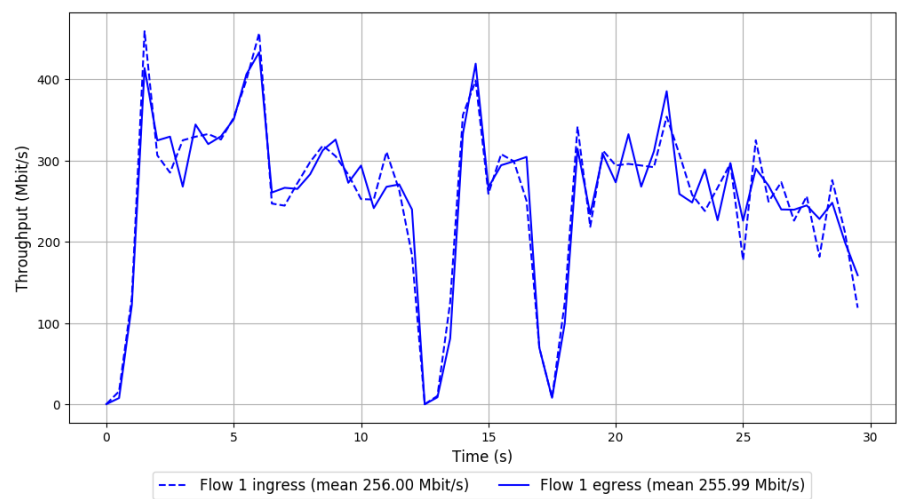
-- Flow 1:

Average throughput: 255.99 Mbit/s

95th percentile per-packet one-way delay: 85.988 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-09 07:39:13

End at: 2018-01-09 07:39:43

Below is generated by plot.py at 2018-01-09 10:54:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.54 Mbit/s

95th percentile per-packet one-way delay: 93.871 ms

Loss rate: 0.75%

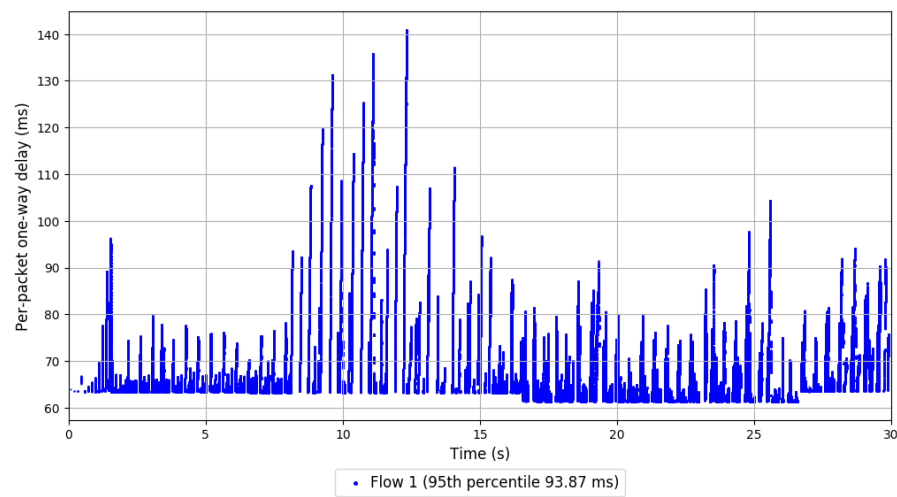
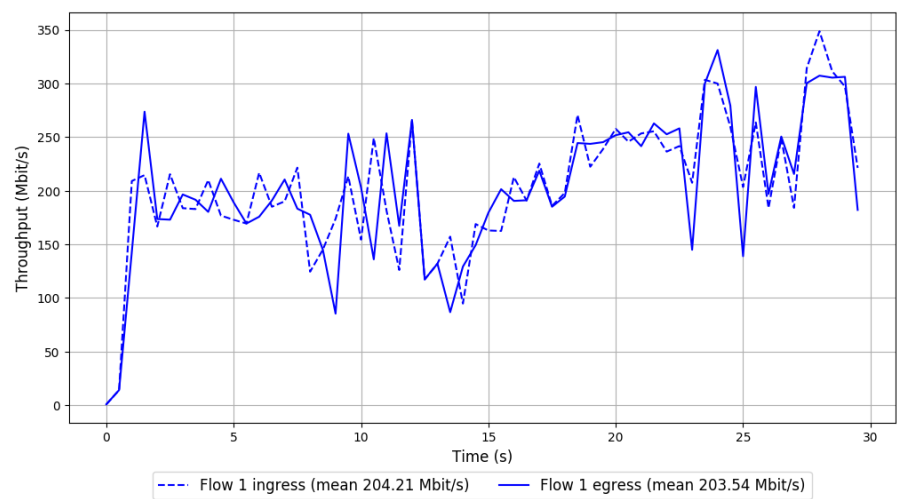
-- Flow 1:

Average throughput: 203.54 Mbit/s

95th percentile per-packet one-way delay: 93.871 ms

Loss rate: 0.75%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-09 07:50:37

End at: 2018-01-09 07:51:07

Below is generated by plot.py at 2018-01-09 10:55:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.68 Mbit/s

95th percentile per-packet one-way delay: 85.225 ms

Loss rate: 0.84%

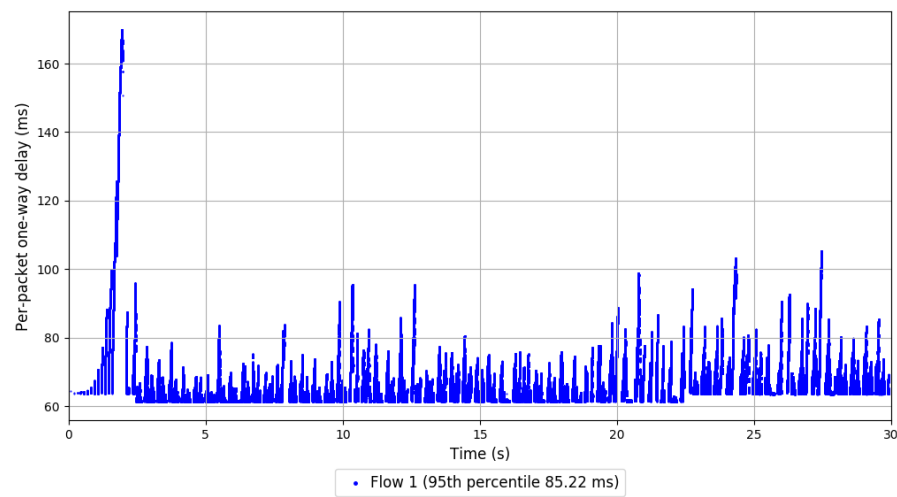
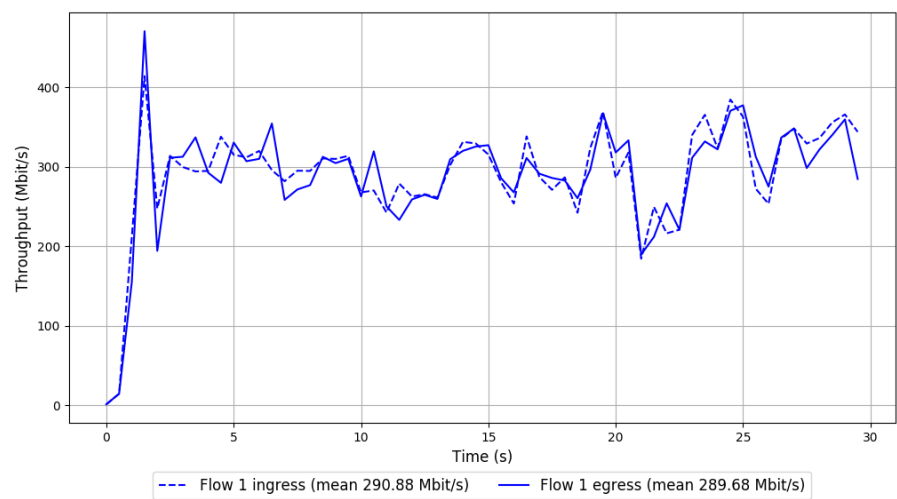
-- Flow 1:

Average throughput: 289.68 Mbit/s

95th percentile per-packet one-way delay: 85.225 ms

Loss rate: 0.84%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-09 08:02:20

End at: 2018-01-09 08:02:50

Below is generated by plot.py at 2018-01-09 10:55:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.70 Mbit/s

95th percentile per-packet one-way delay: 212.558 ms

Loss rate: 2.63%

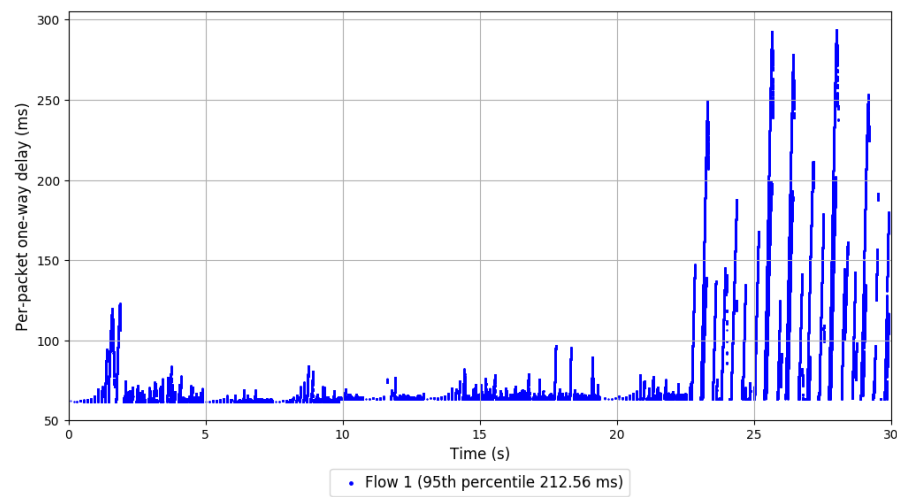
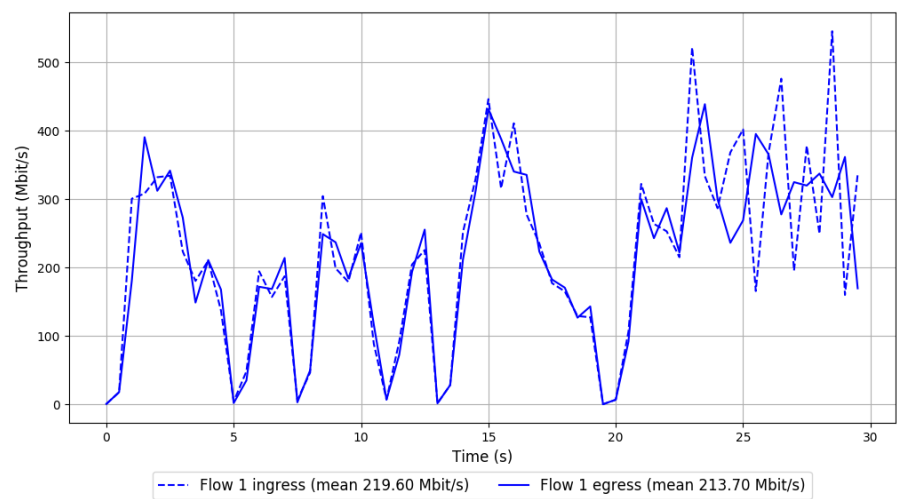
-- Flow 1:

Average throughput: 213.70 Mbit/s

95th percentile per-packet one-way delay: 212.558 ms

Loss rate: 2.63%

Run 8: Report of Verus — Data Link

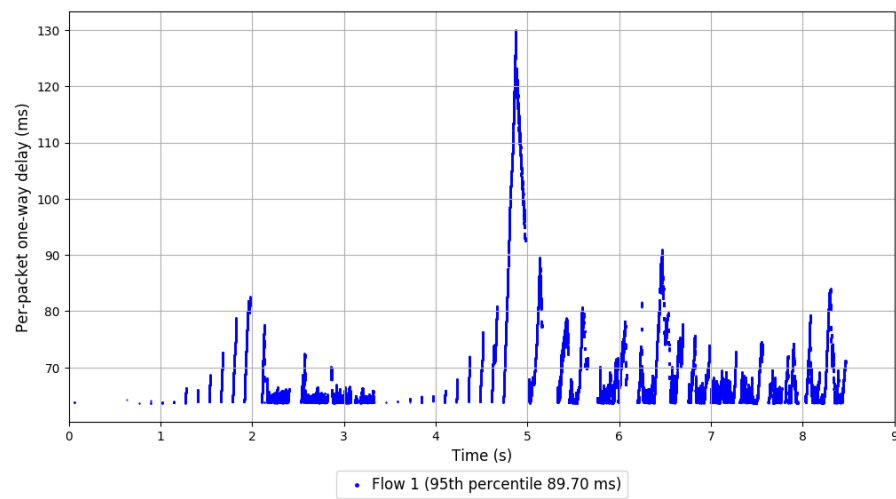
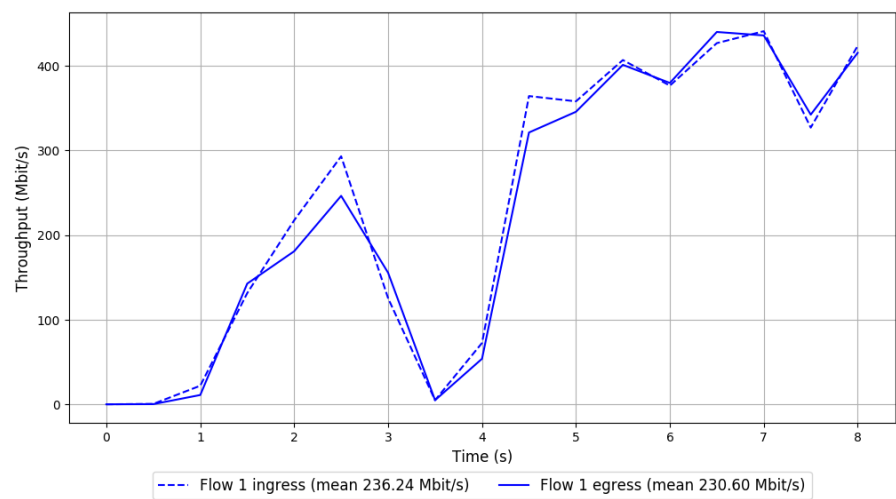


Run 9: Statistics of Verus

Start at: 2018-01-09 08:13:07

End at: 2018-01-09 08:13:37

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-09 08:23:45

End at: 2018-01-09 08:24:15

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.04 Mbit/s

95th percentile per-packet one-way delay: 83.024 ms

Loss rate: 0.76%

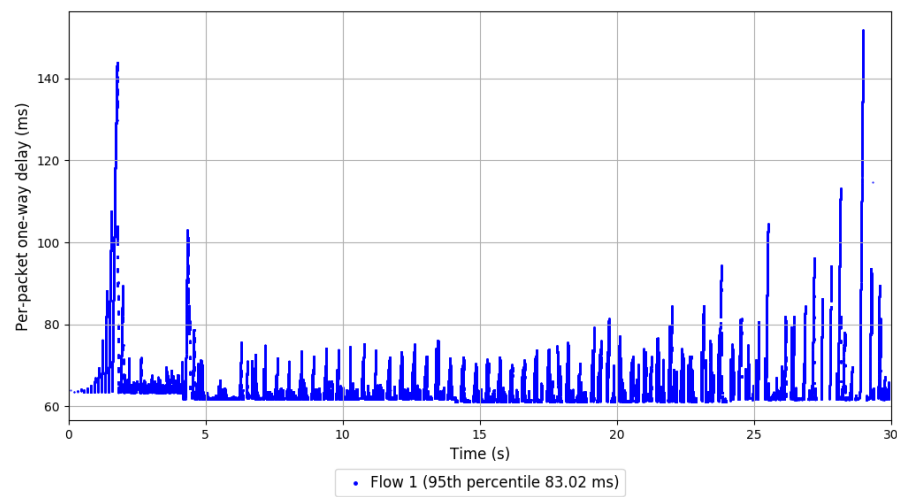
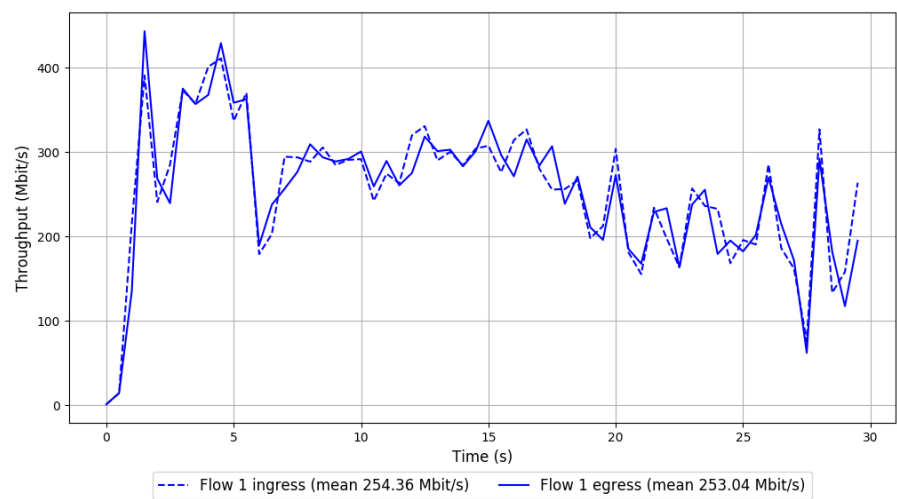
-- Flow 1:

Average throughput: 253.04 Mbit/s

95th percentile per-packet one-way delay: 83.024 ms

Loss rate: 0.76%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-09 06:36:26

End at: 2018-01-09 06:36:56

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.92 Mbit/s

95th percentile per-packet one-way delay: 63.854 ms

Loss rate: 0.27%

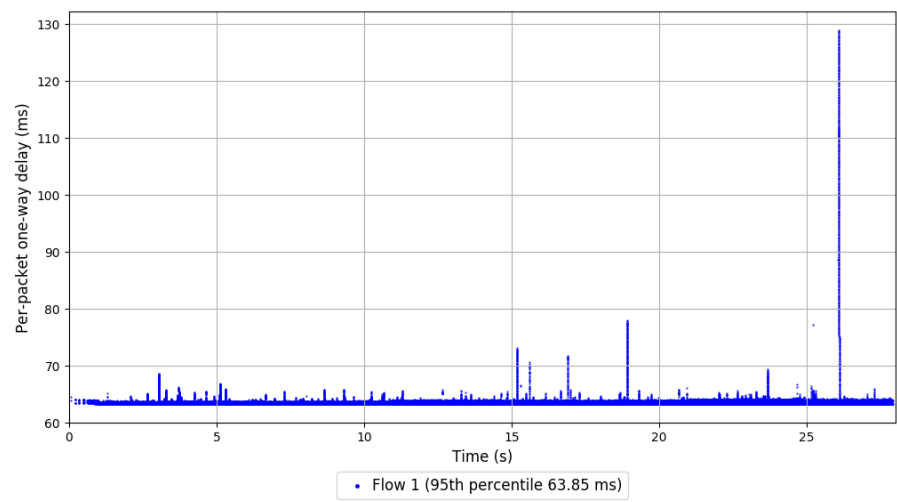
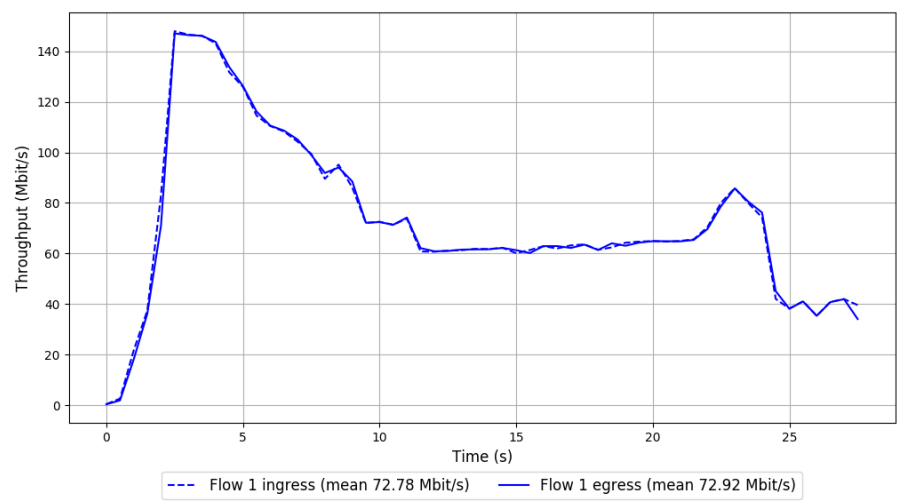
-- Flow 1:

Average throughput: 72.92 Mbit/s

95th percentile per-packet one-way delay: 63.854 ms

Loss rate: 0.27%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-09 06:48:20

End at: 2018-01-09 06:48:50

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.98 Mbit/s

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

Loss rate: 0.11%

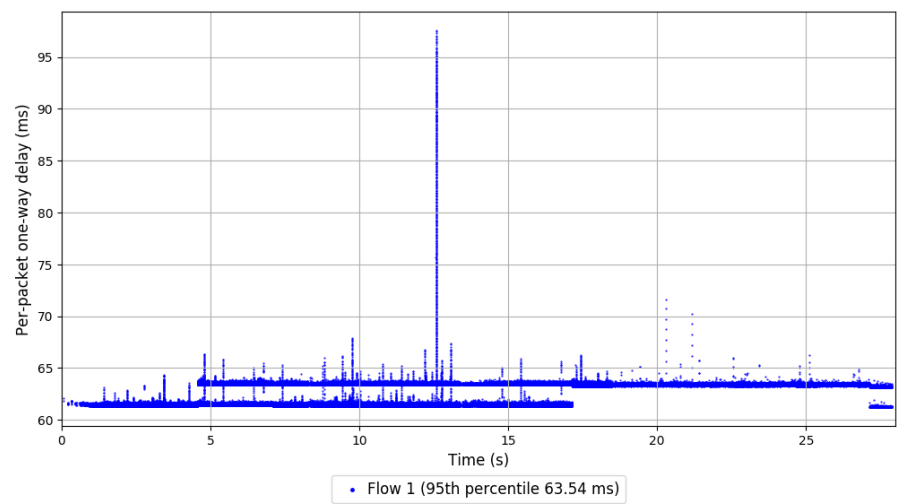
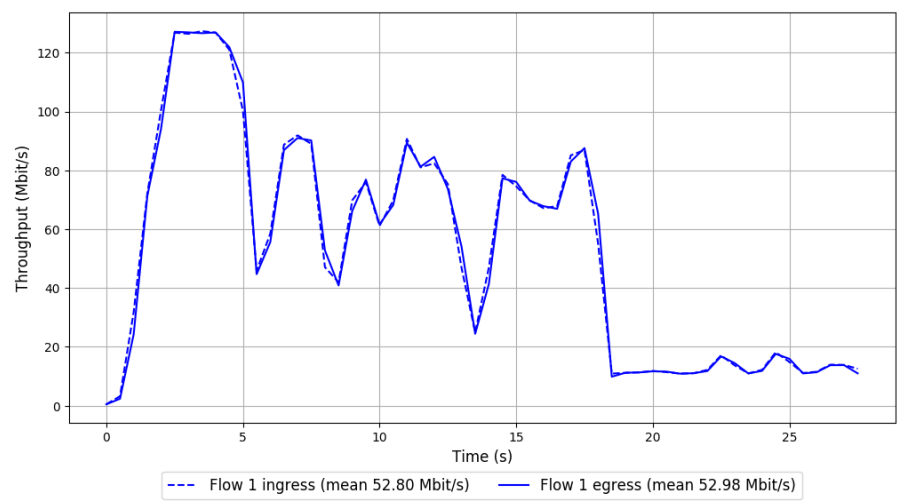
-- Flow 1:

Average throughput: 52.98 Mbit/s

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

Loss rate: 0.11%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-09 06:59:27

End at: 2018-01-09 06:59:57

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.03 Mbit/s

95th percentile per-packet one-way delay: 63.696 ms

Loss rate: 0.39%

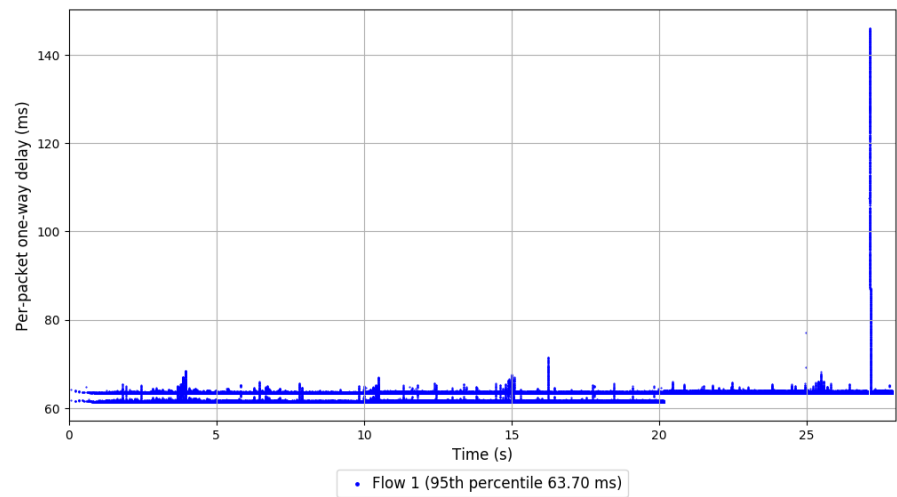
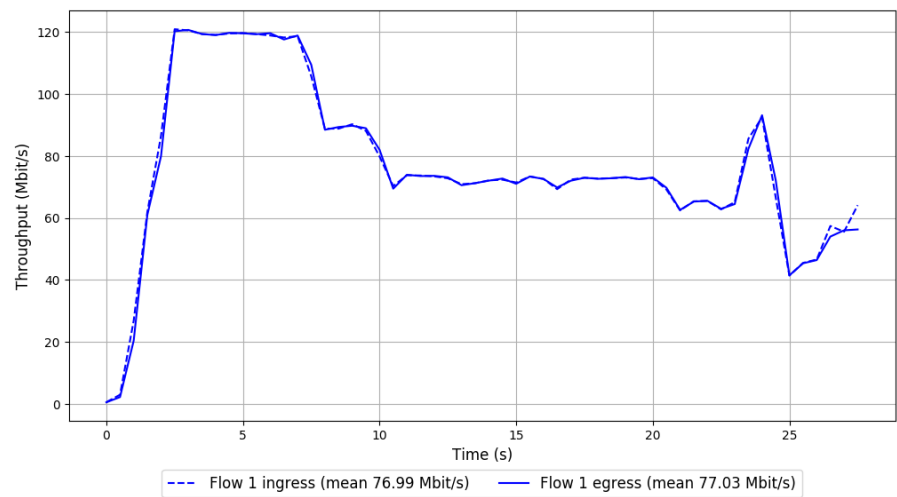
-- Flow 1:

Average throughput: 77.03 Mbit/s

95th percentile per-packet one-way delay: 63.696 ms

Loss rate: 0.39%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-09 07:10:28

End at: 2018-01-09 07:10:58

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.44%

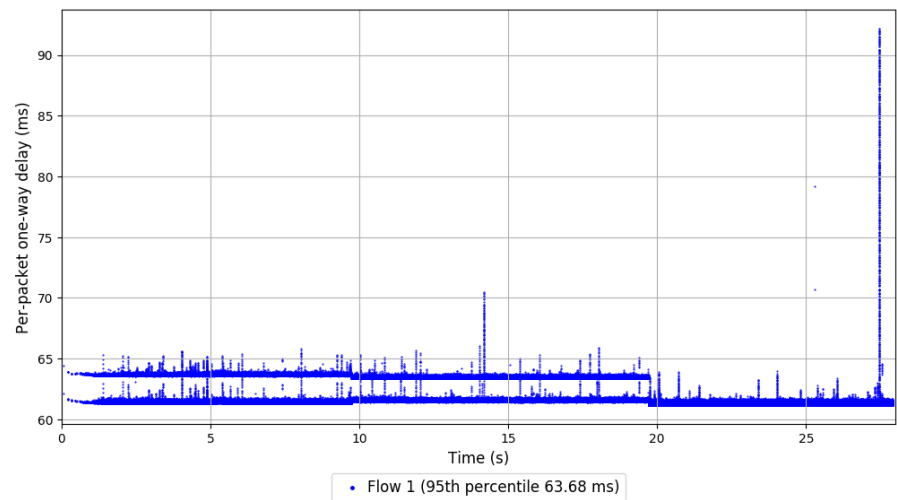
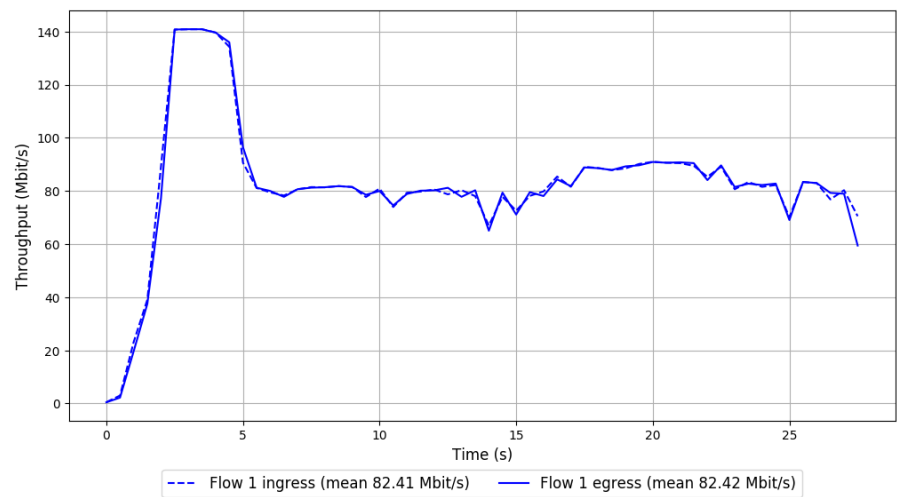
-- Flow 1:

Average throughput: 82.42 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.44%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-09 07:22:01

End at: 2018-01-09 07:22:31

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.79 Mbit/s

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

Loss rate: 0.13%

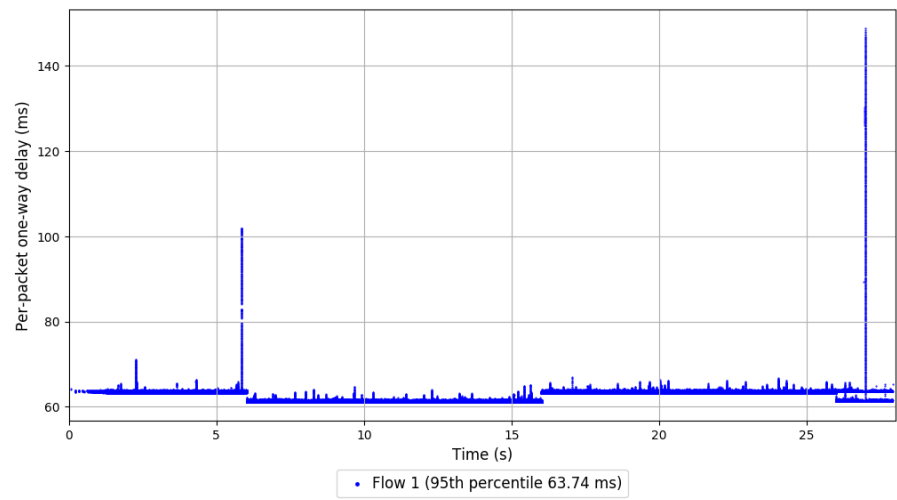
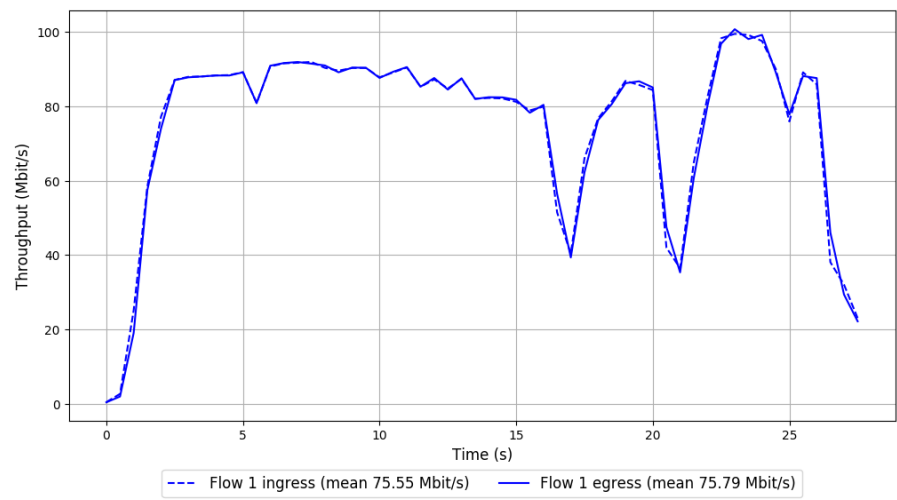
-- Flow 1:

Average throughput: 75.79 Mbit/s

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

Loss rate: 0.13%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-09 07:33:43

End at: 2018-01-09 07:34:13

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.15 Mbit/s

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

Loss rate: 0.32%

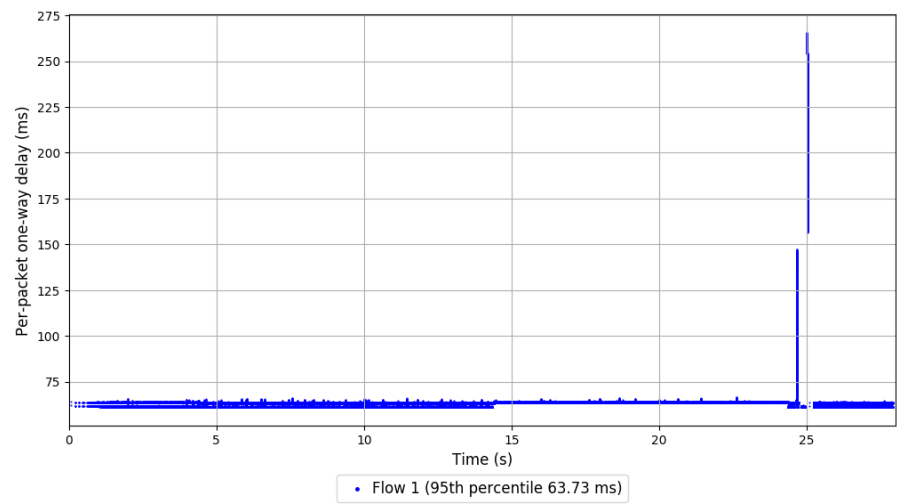
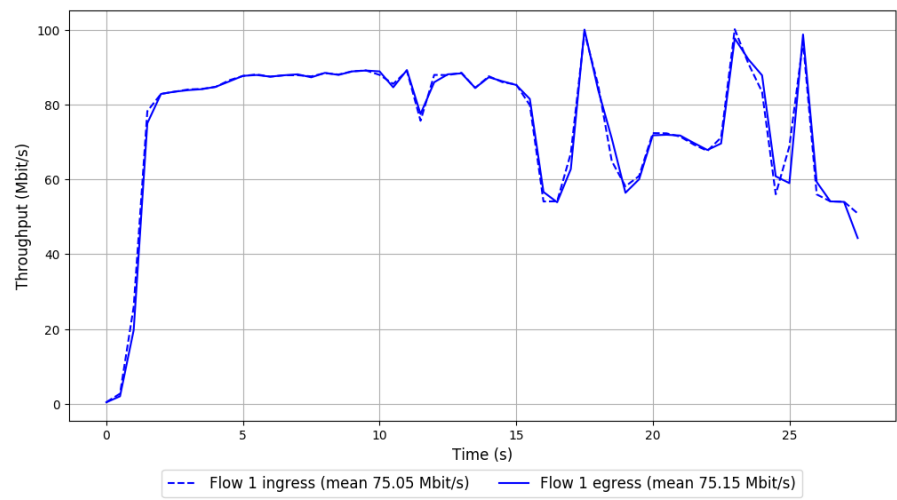
-- Flow 1:

Average throughput: 75.15 Mbit/s

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

Loss rate: 0.32%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-09 07:45:24

End at: 2018-01-09 07:45:54

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.18 Mbit/s

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

Loss rate: 0.51%

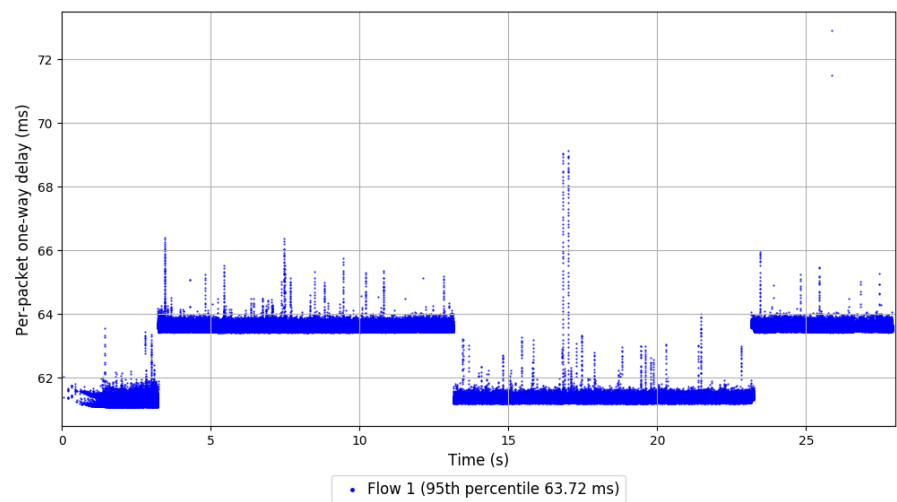
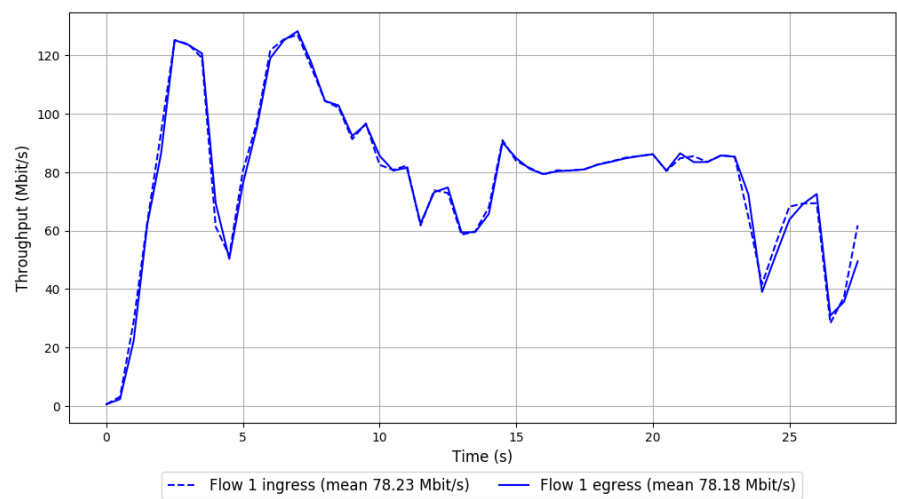
-- Flow 1:

Average throughput: 78.18 Mbit/s

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

Loss rate: 0.51%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-09 07:56:59

End at: 2018-01-09 07:57:30

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 63.792 ms

Loss rate: 0.44%

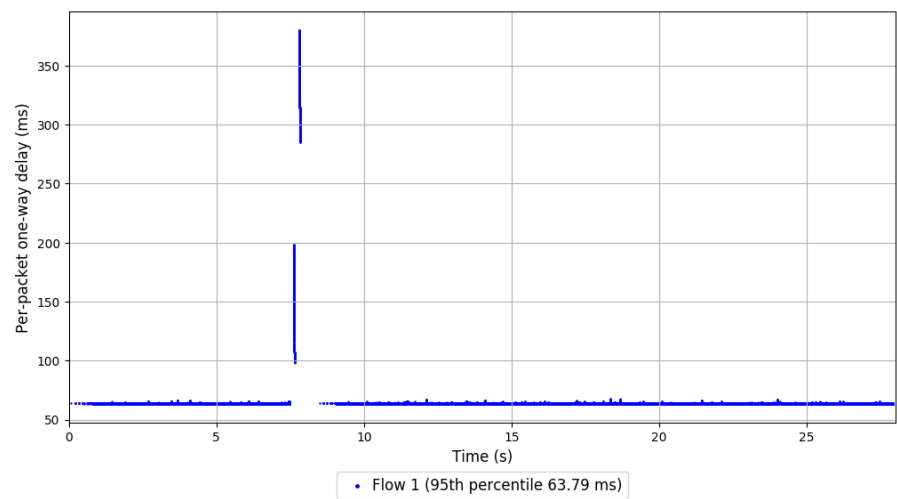
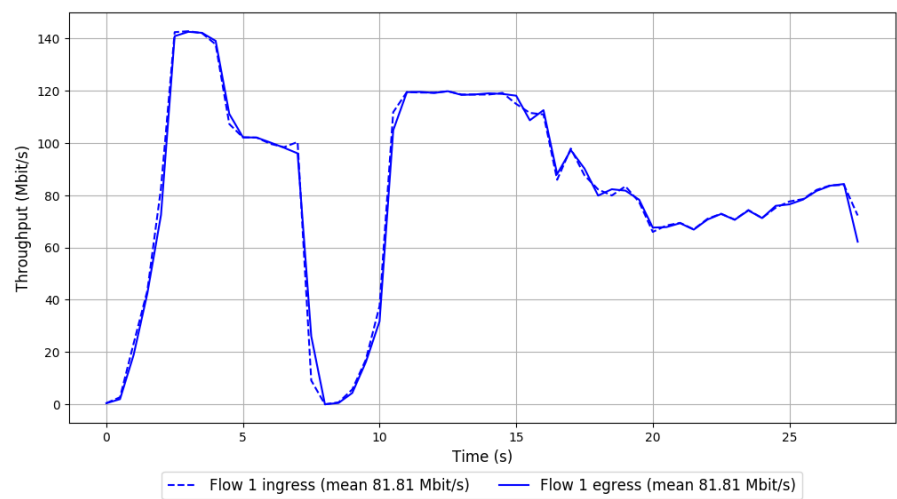
-- Flow 1:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 63.792 ms

Loss rate: 0.44%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-09 08:08:32

End at: 2018-01-09 08:09:02

Below is generated by plot.py at 2018-01-09 10:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 63.844 ms

Loss rate: 0.25%

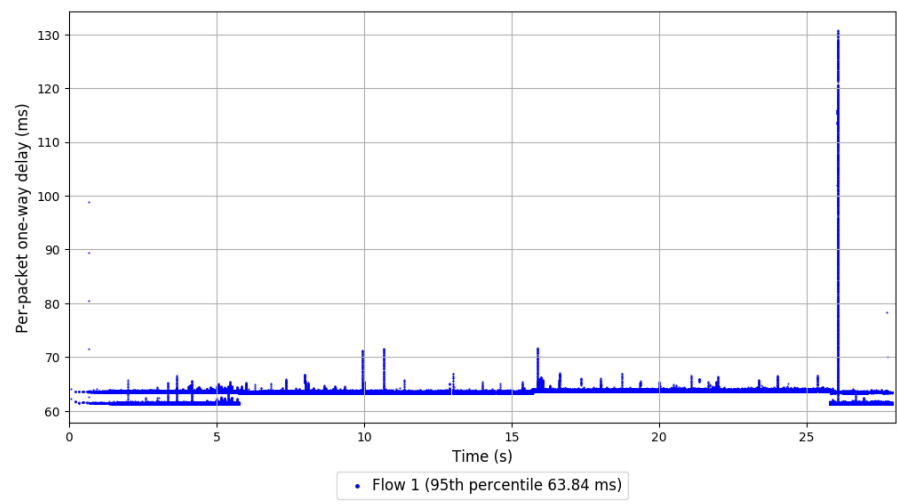
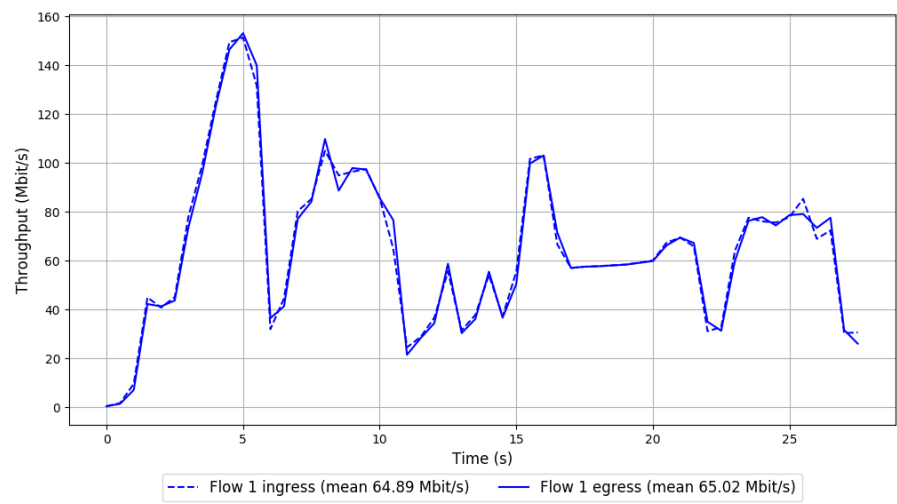
-- Flow 1:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 63.844 ms

Loss rate: 0.25%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-09 08:19:11

End at: 2018-01-09 08:19:41

Below is generated by plot.py at 2018-01-09 10:58:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 63.602 ms

Loss rate: 0.08%

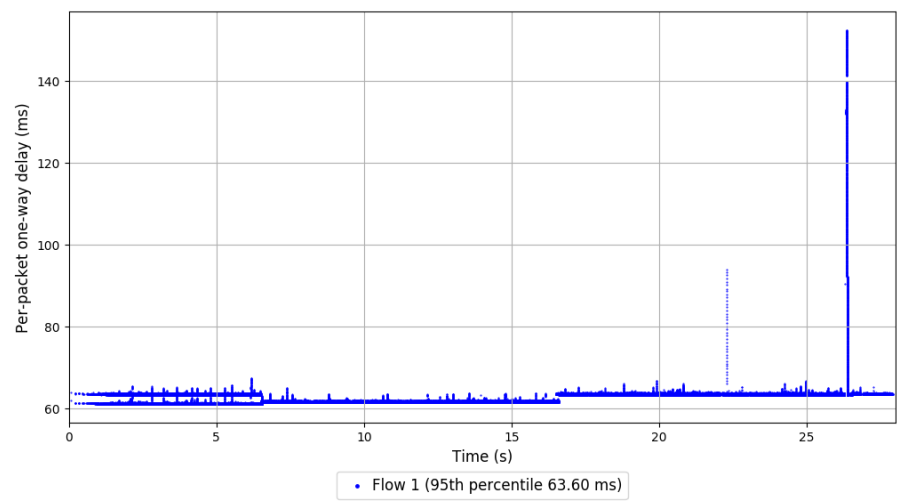
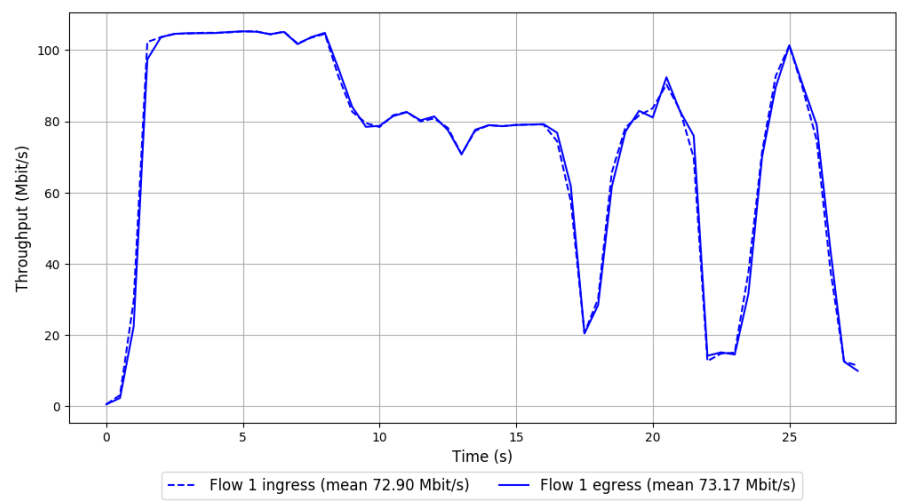
-- Flow 1:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 63.602 ms

Loss rate: 0.08%

Run 10: Report of Copa — Data Link

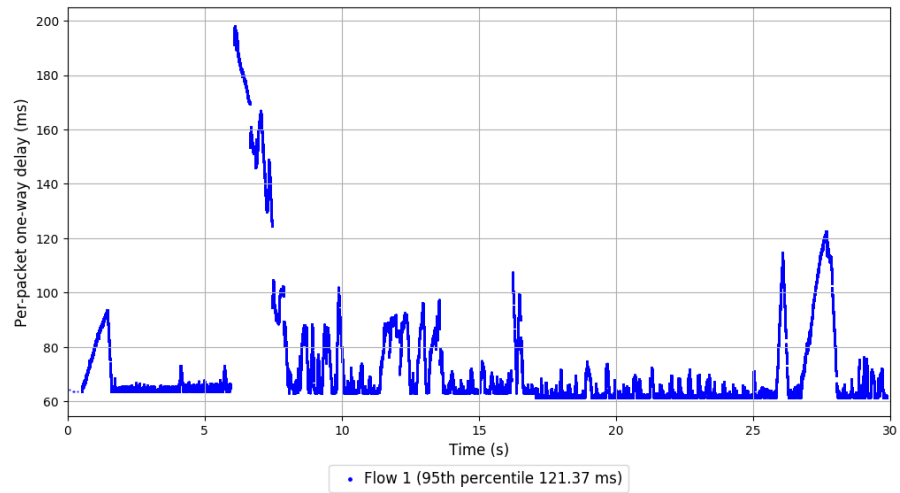
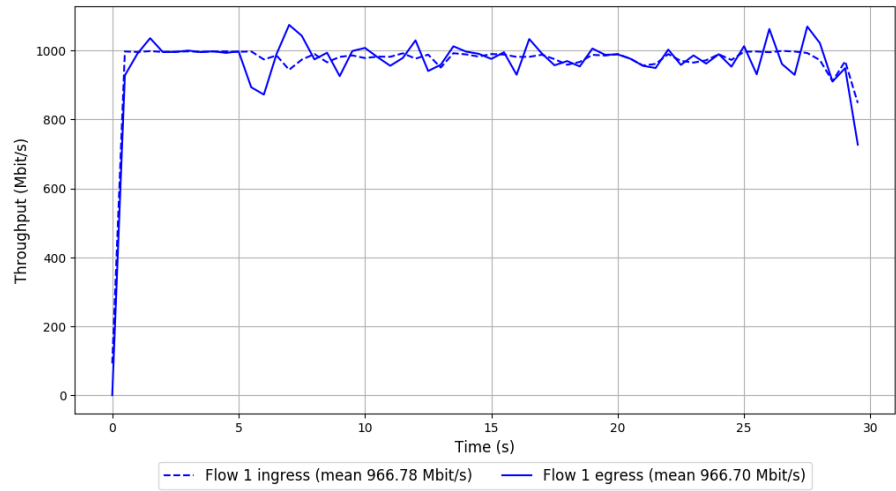


```
Run 1: Statistics of FillP

Start at: 2018-01-09 06:38:01
End at: 2018-01-09 06:38:31

# Below is generated by plot.py at 2018-01-09 11:12:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 966.70 Mbit/s
95th percentile per-packet one-way delay: 121.367 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 966.70 Mbit/s
95th percentile per-packet one-way delay: 121.367 ms
Loss rate: 0.44%
```


Run 1: Report of FillP — Data Link

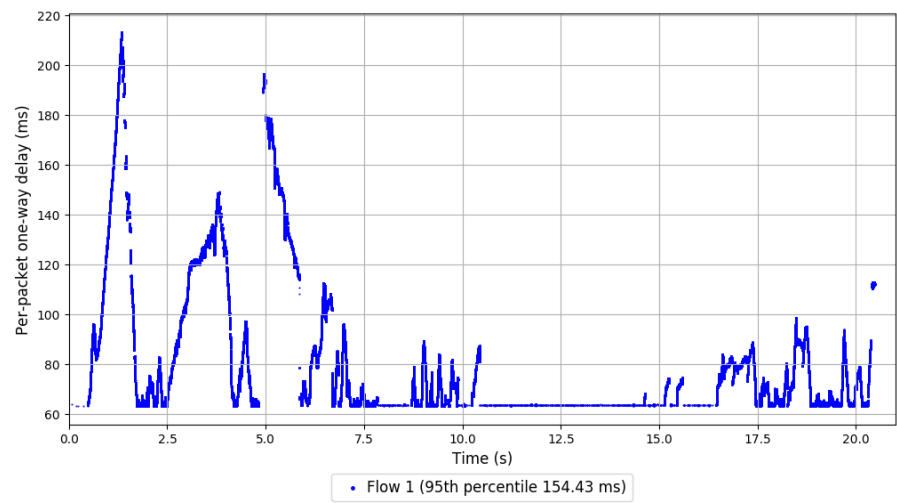
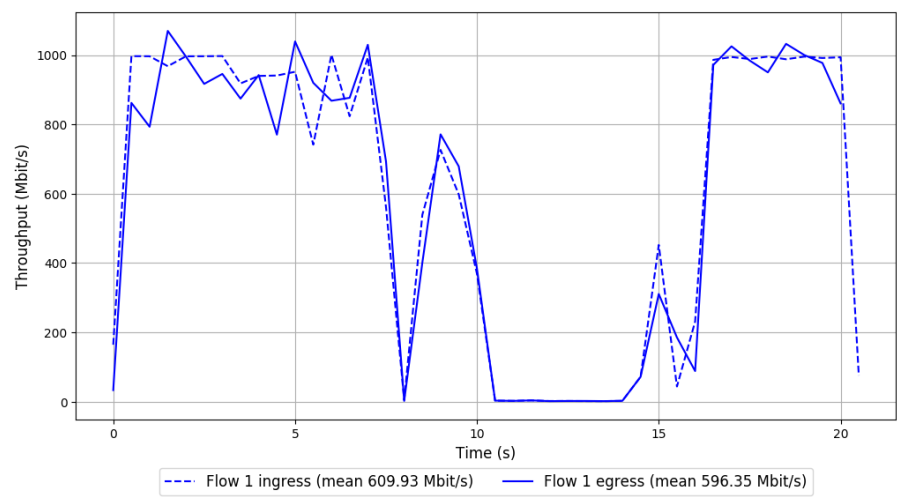


Run 2: Statistics of FillP

Start at: 2018-01-09 06:49:54

End at: 2018-01-09 06:50:24

Run 2: Report of FillP — Data Link

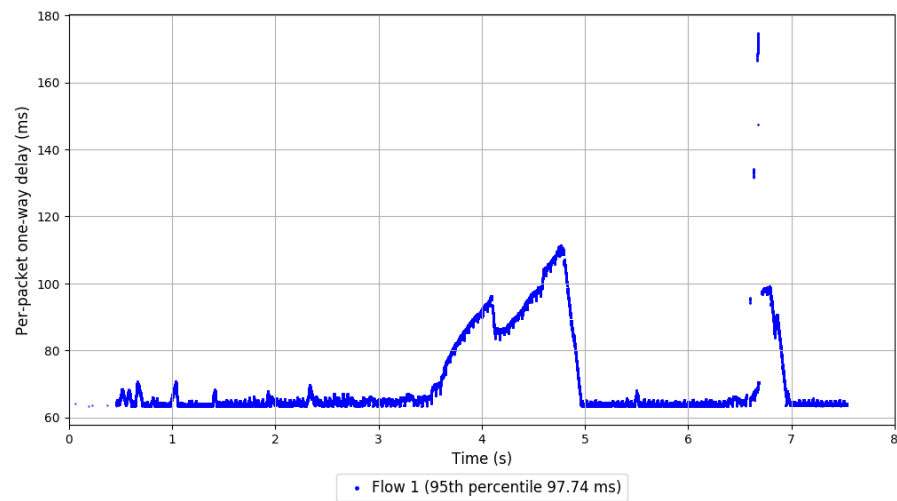
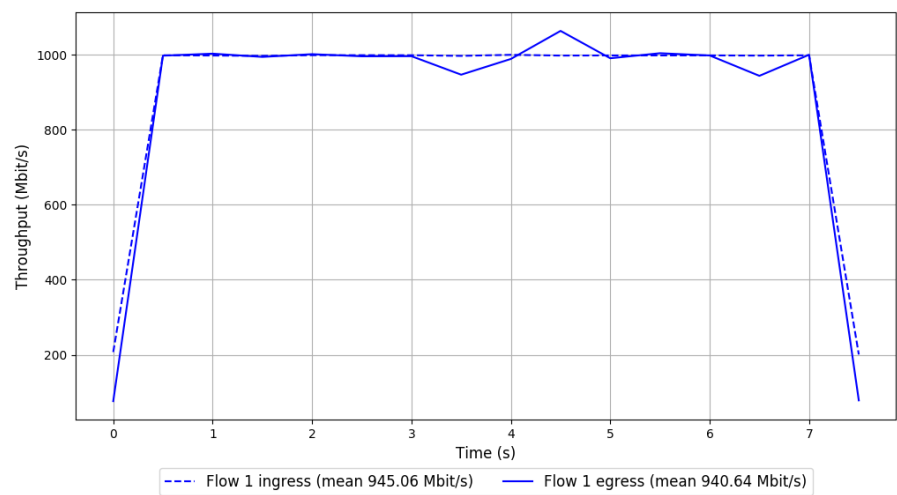


Run 3: Statistics of FillP

Start at: 2018-01-09 07:01:00

End at: 2018-01-09 07:01:30

Run 3: Report of FillP — Data Link

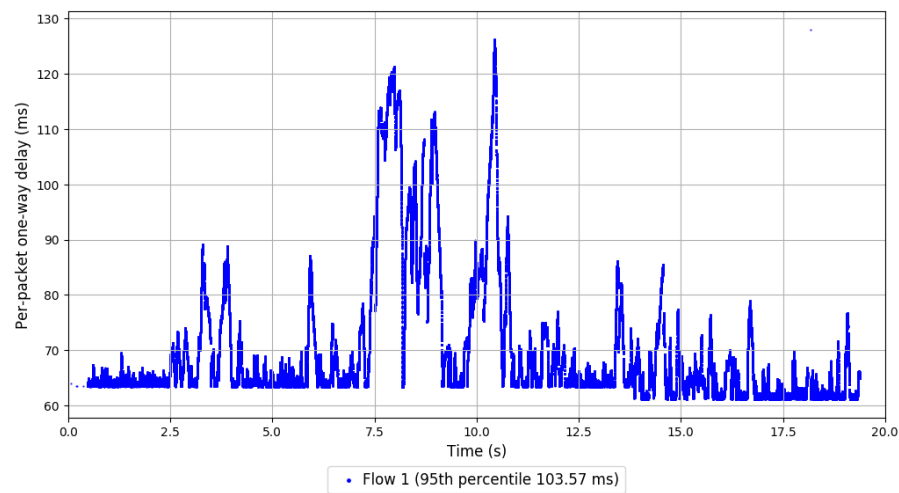
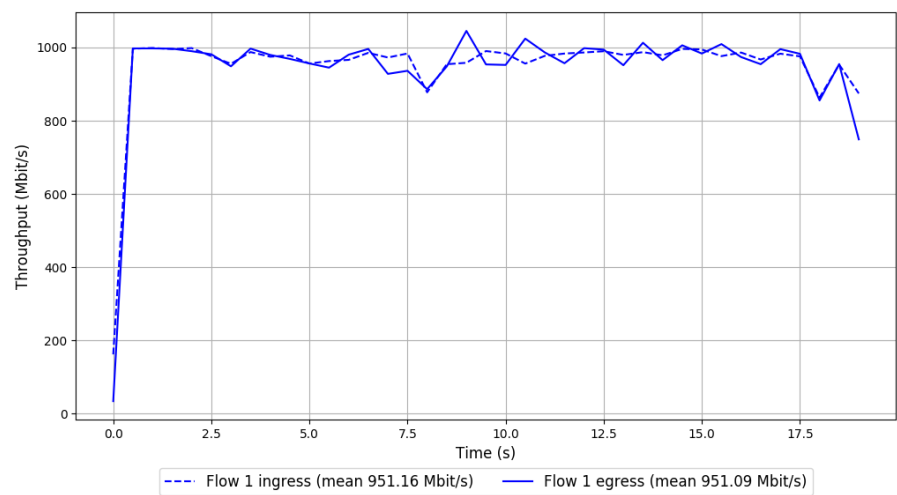


Run 4: Statistics of FillP

Start at: 2018-01-09 07:12:04

End at: 2018-01-09 07:12:34

Run 4: Report of FillP — Data Link

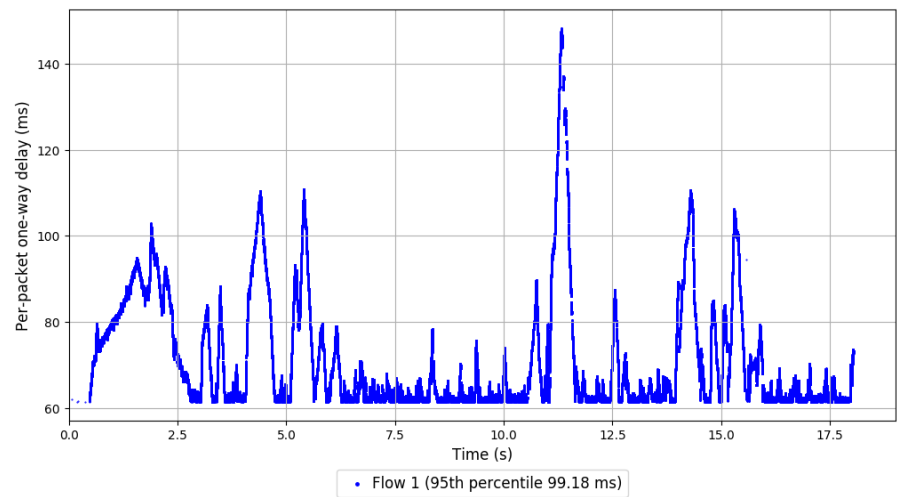
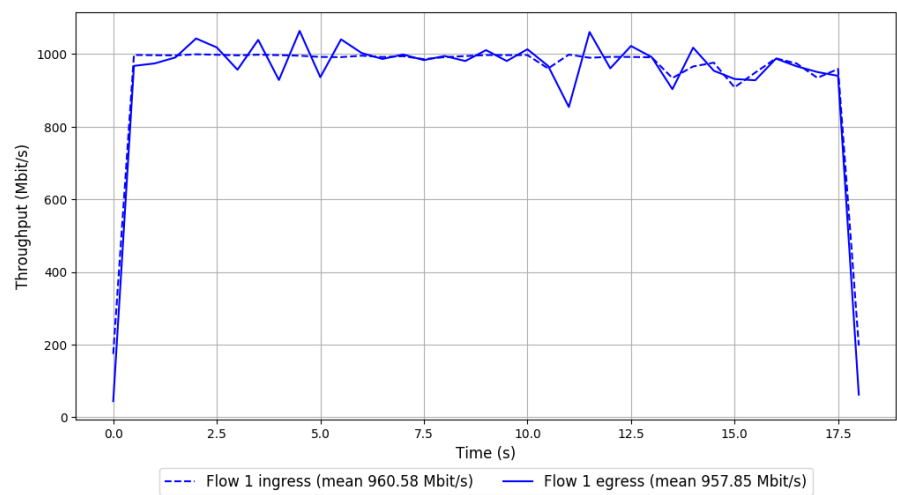


Run 5: Statistics of FillP

Start at: 2018-01-09 07:23:37

End at: 2018-01-09 07:24:07

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-09 07:35:18

End at: 2018-01-09 07:35:48

Below is generated by plot.py at 2018-01-09 11:12:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 959.90 Mbit/s

95th percentile per-packet one-way delay: 93.059 ms

Loss rate: 0.94%

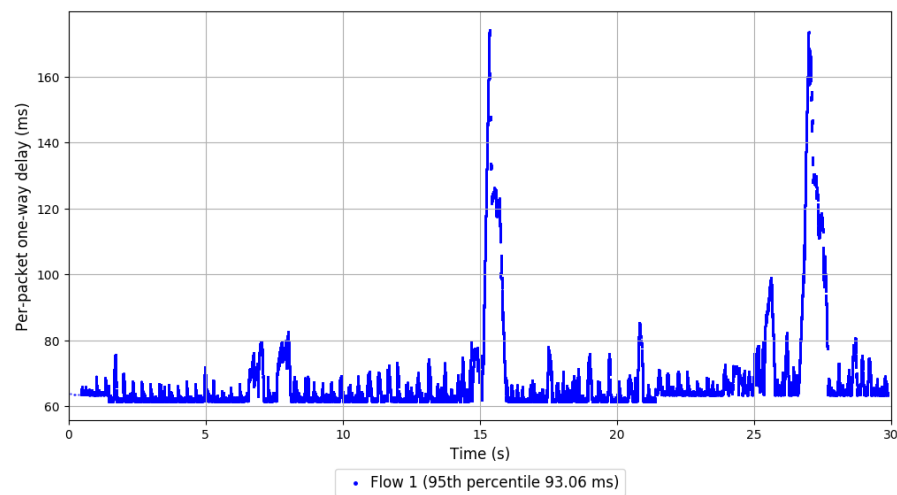
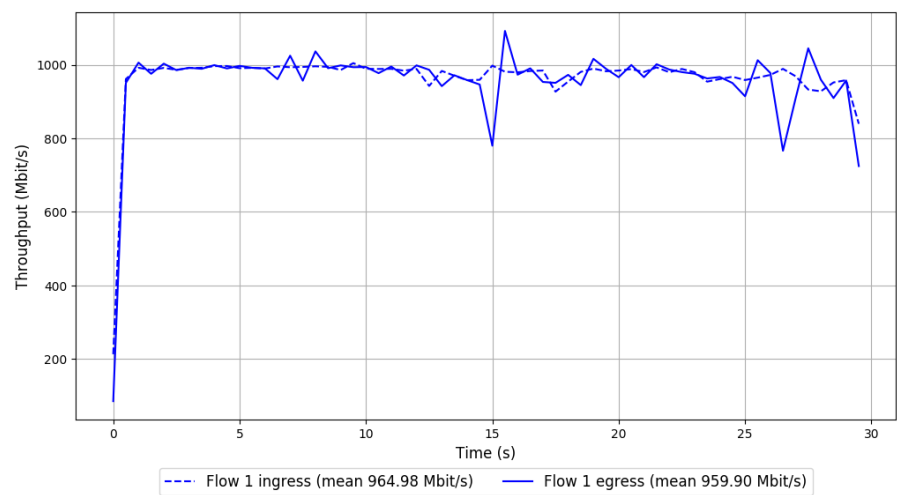
-- Flow 1:

Average throughput: 959.90 Mbit/s

95th percentile per-packet one-way delay: 93.059 ms

Loss rate: 0.94%

Run 6: Report of FillP — Data Link

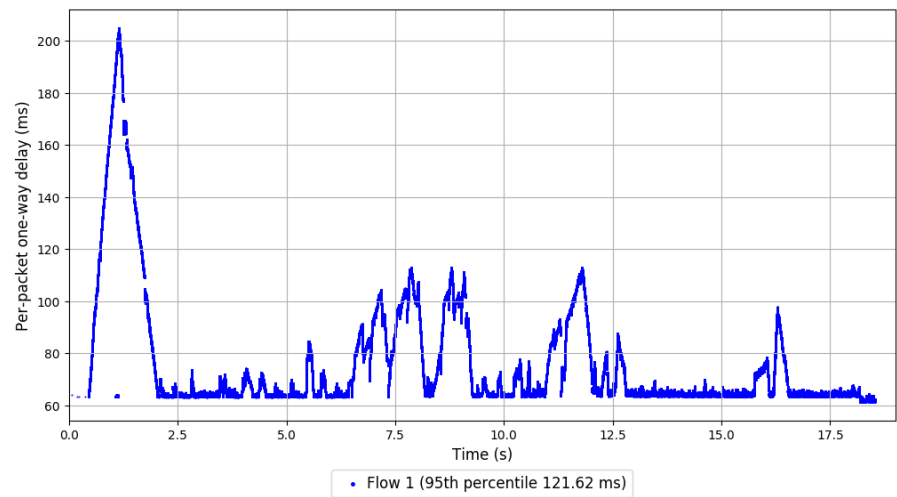
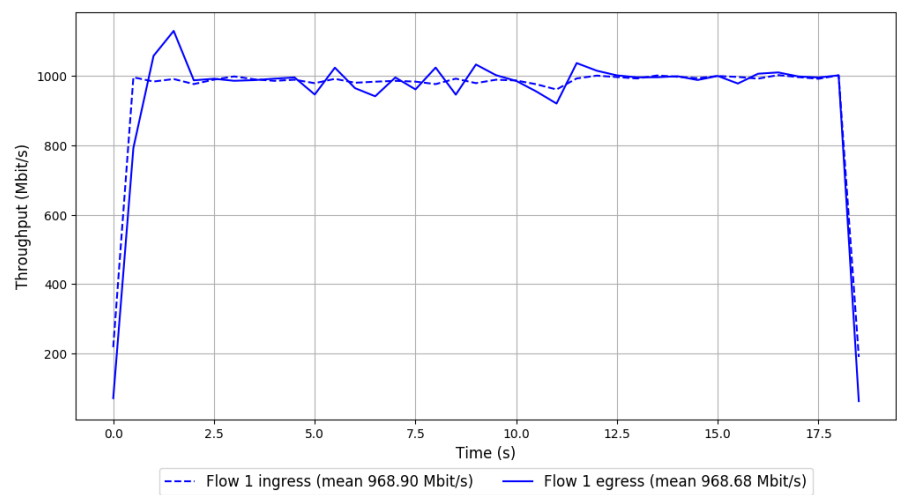


Run 7: Statistics of FillP

Start at: 2018-01-09 07:47:00

End at: 2018-01-09 07:47:30

Run 7: Report of FillP — Data Link

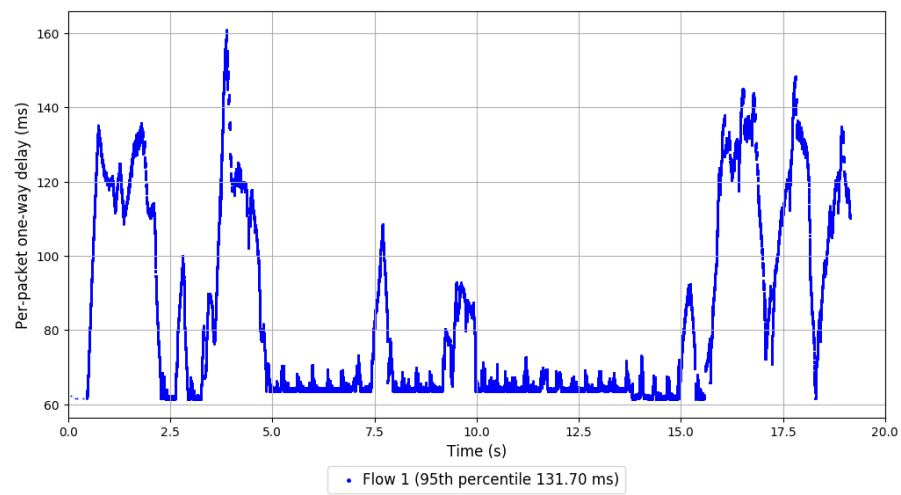
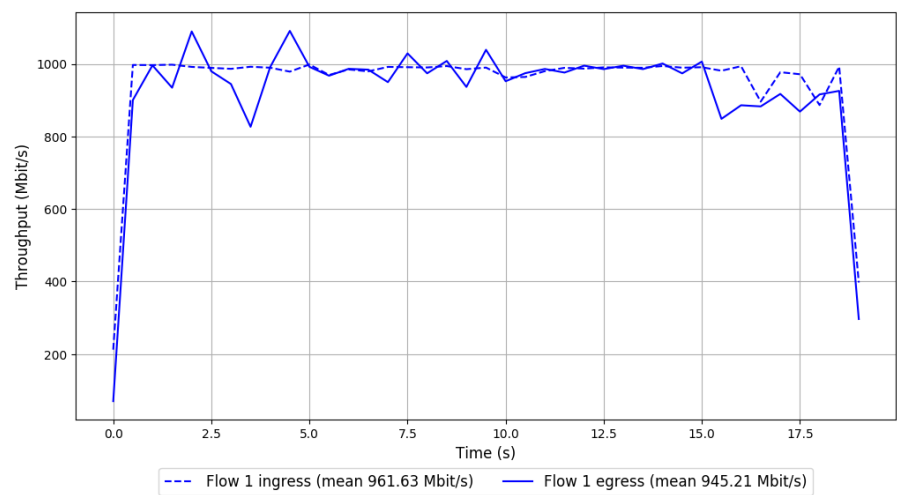


Run 8: Statistics of FillP

Start at: 2018-01-09 07:58:35

End at: 2018-01-09 07:59:05

Run 8: Report of FillP — Data Link

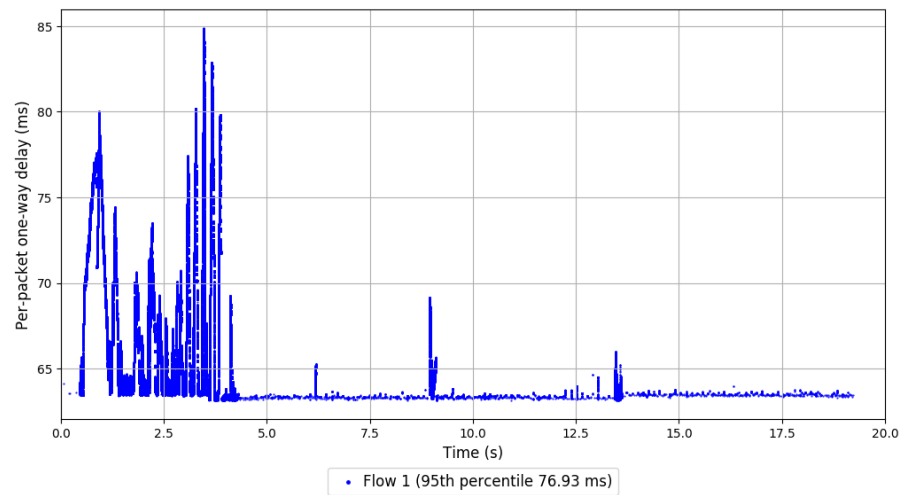
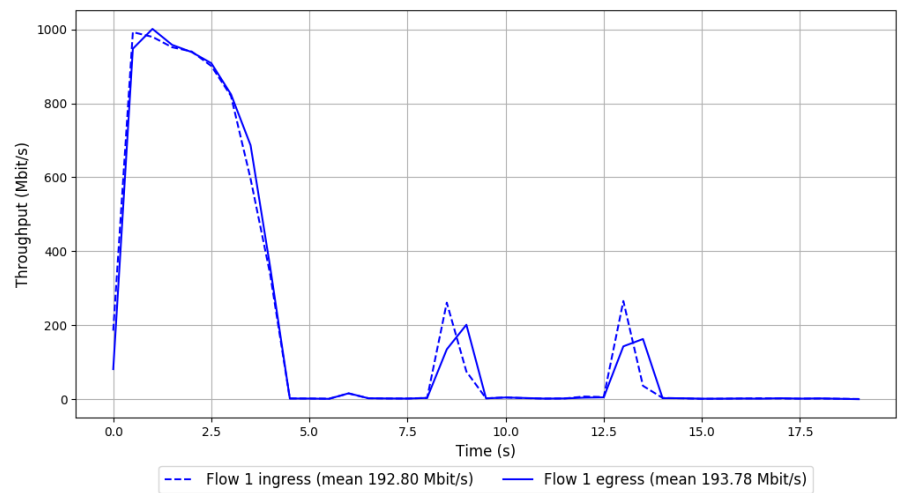


Run 9: Statistics of FillP

Start at: 2018-01-09 08:10:05

End at: 2018-01-09 08:10:35

Run 9: Report of FillP — Data Link

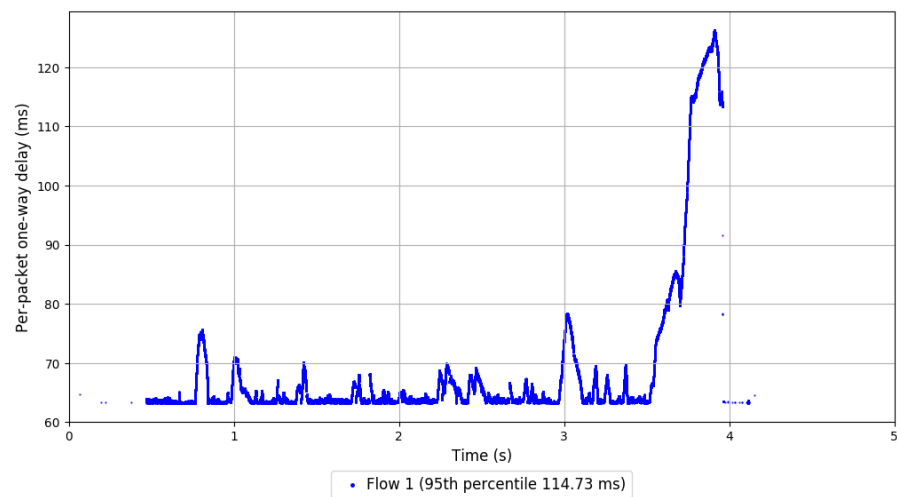
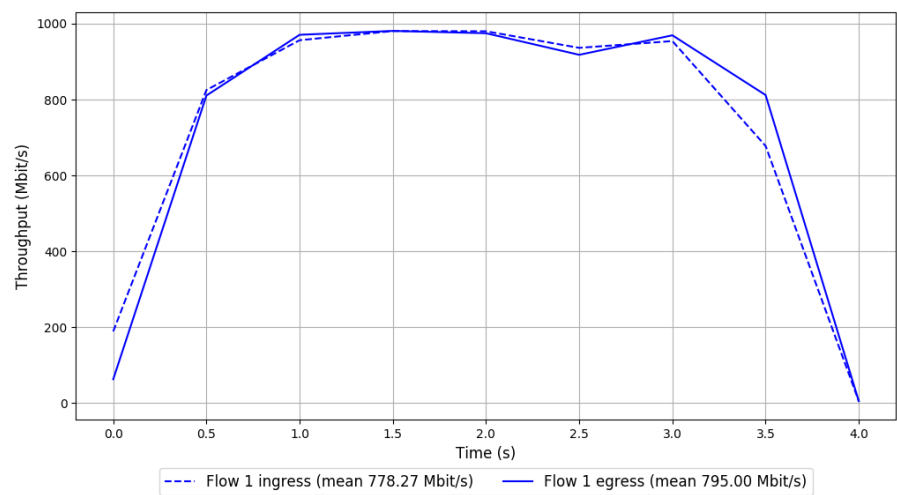


Run 10: Statistics of FillP

Start at: 2018-01-09 08:20:45

End at: 2018-01-09 08:21:15

Run 10: Report of FillP — Data Link

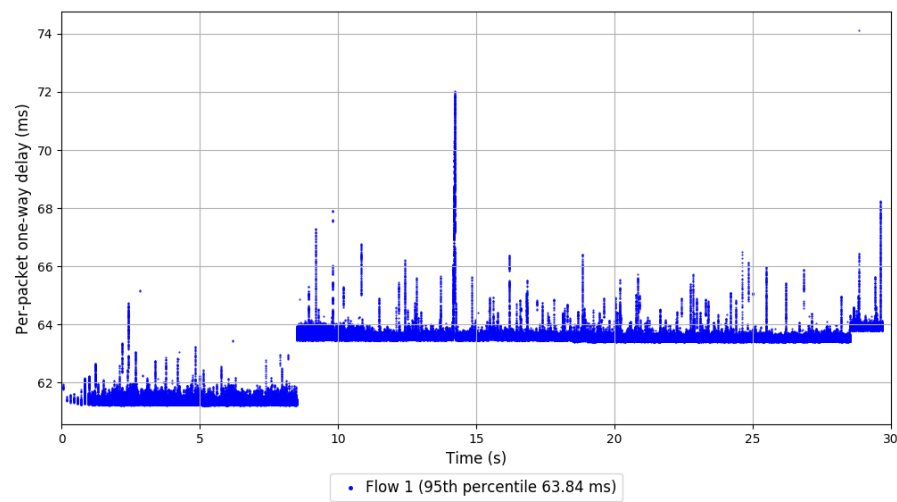
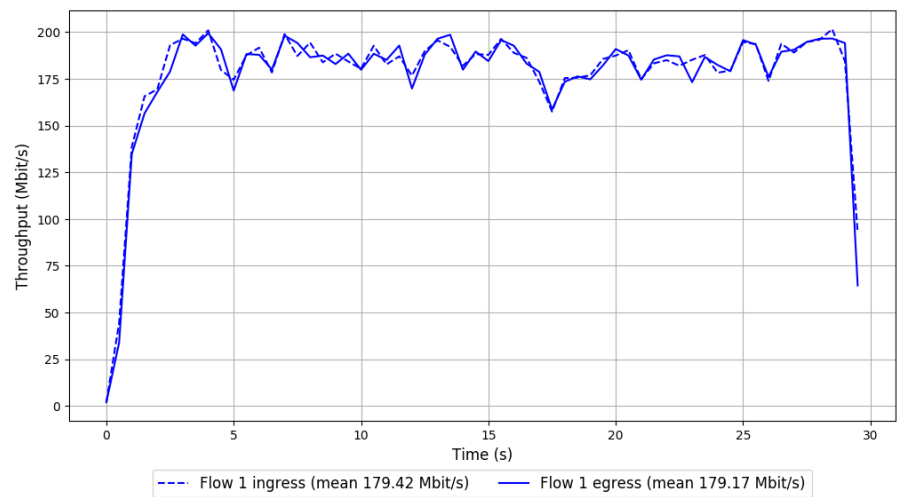


```
Run 1: Statistics of Indigo

Start at: 2018-01-09 06:37:11
End at: 2018-01-09 06:37:41

# Below is generated by plot.py at 2018-01-09 11:12:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.17 Mbit/s
95th percentile per-packet one-way delay: 63.843 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 179.17 Mbit/s
95th percentile per-packet one-way delay: 63.843 ms
Loss rate: 0.56%
```

Run 1: Report of Indigo — Data Link

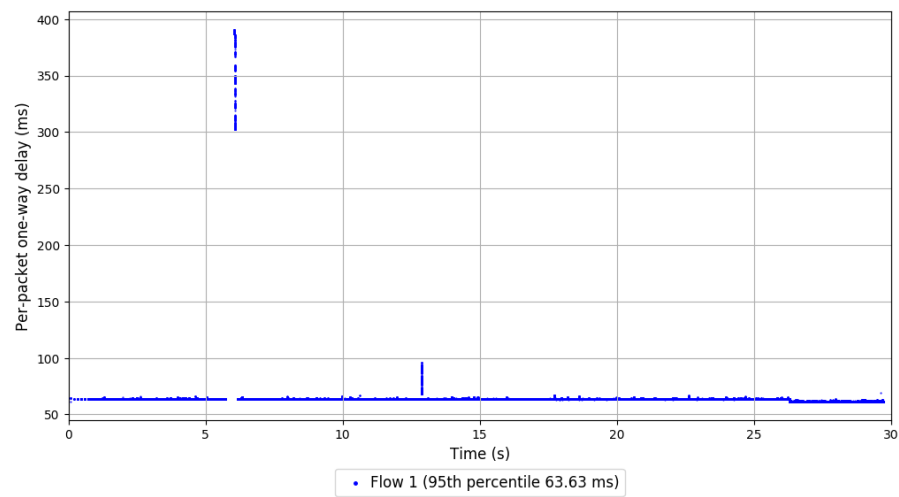
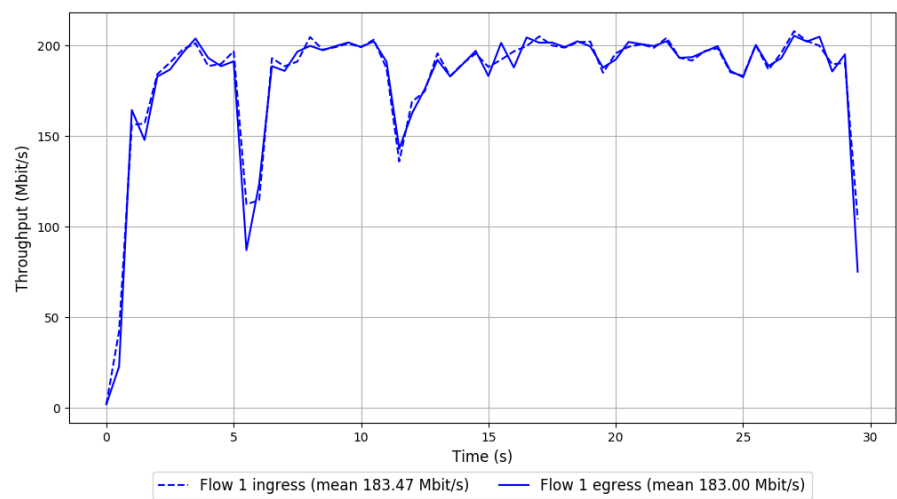


```
Run 2: Statistics of Indigo

Start at: 2018-01-09 06:49:03
End at: 2018-01-09 06:49:33

# Below is generated by plot.py at 2018-01-09 11:12:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.00 Mbit/s
95th percentile per-packet one-way delay: 63.626 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 183.00 Mbit/s
95th percentile per-packet one-way delay: 63.626 ms
Loss rate: 0.67%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-09 07:00:12

End at: 2018-01-09 07:00:42

Below is generated by plot.py at 2018-01-09 11:12:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.97 Mbit/s

95th percentile per-packet one-way delay: 63.740 ms

Loss rate: 0.51%

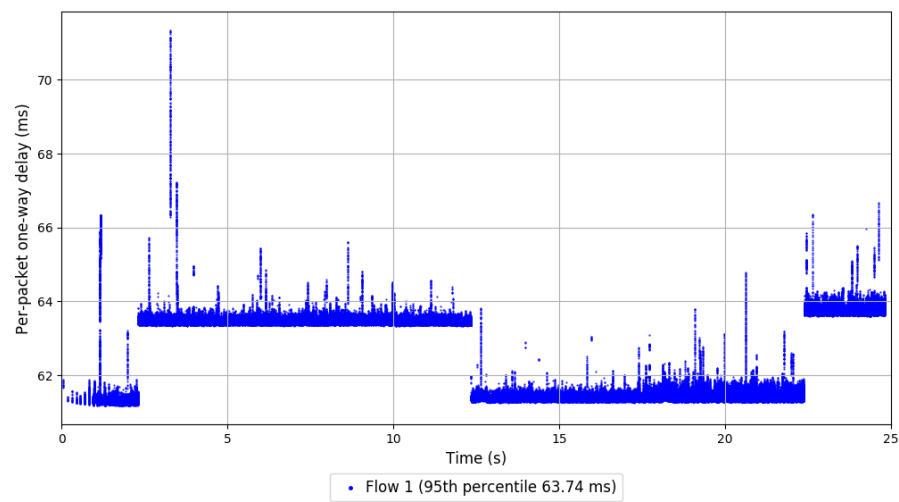
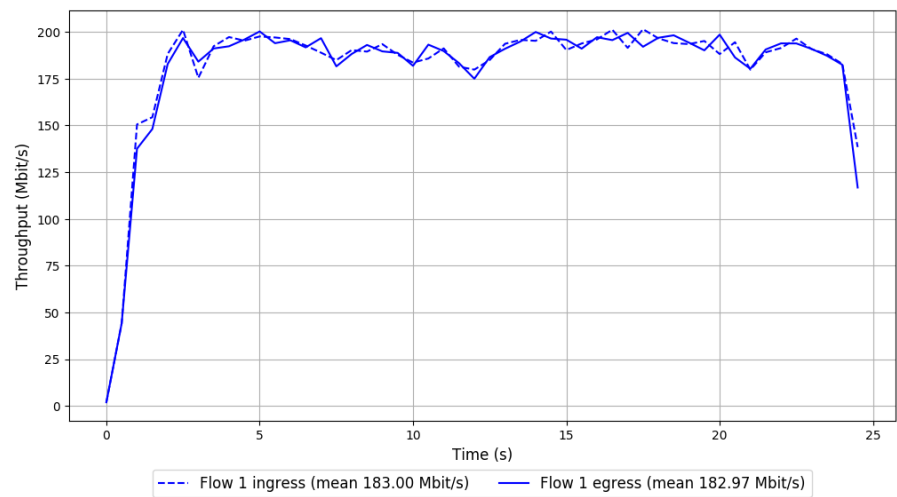
-- Flow 1:

Average throughput: 182.97 Mbit/s

95th percentile per-packet one-way delay: 63.740 ms

Loss rate: 0.51%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-09 07:11:13

End at: 2018-01-09 07:11:43

Below is generated by plot.py at 2018-01-09 11:12:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.67 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.47%

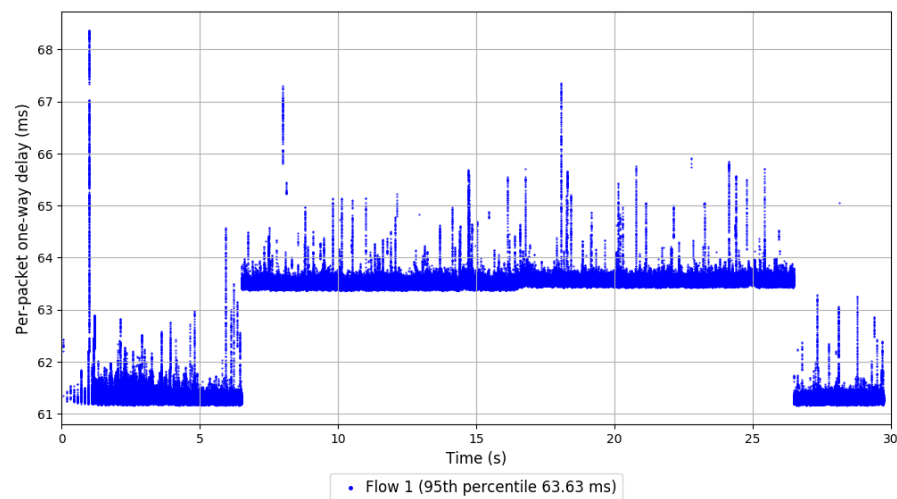
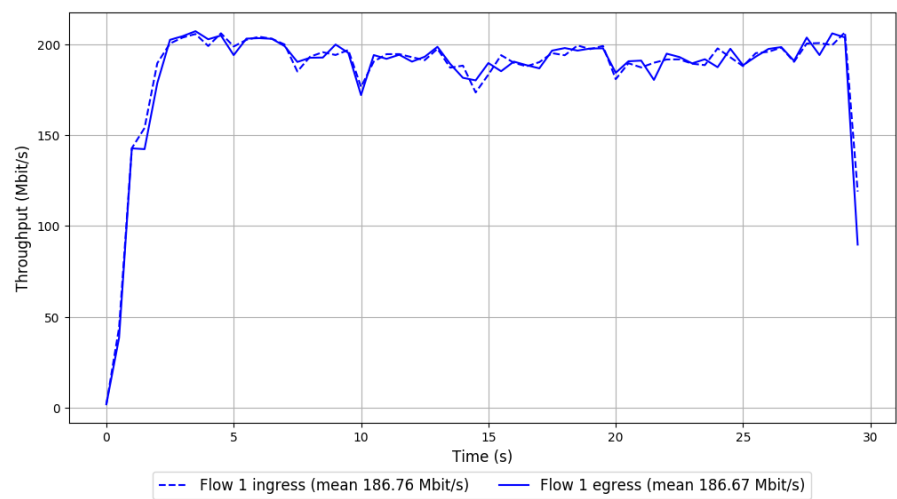
-- Flow 1:

Average throughput: 186.67 Mbit/s

95th percentile per-packet one-way delay: 63.628 ms

Loss rate: 0.47%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-09 07:22:46

End at: 2018-01-09 07:23:16

Below is generated by plot.py at 2018-01-09 11:12:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.21 Mbit/s

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

Loss rate: 0.69%

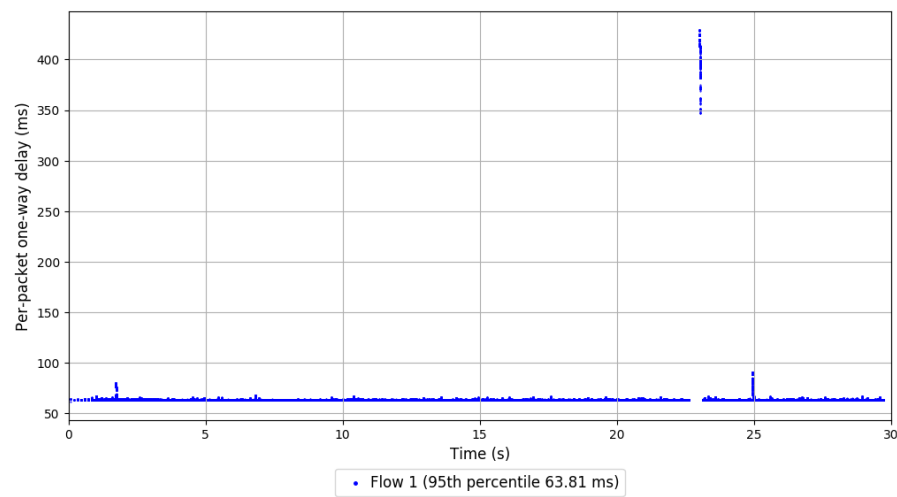
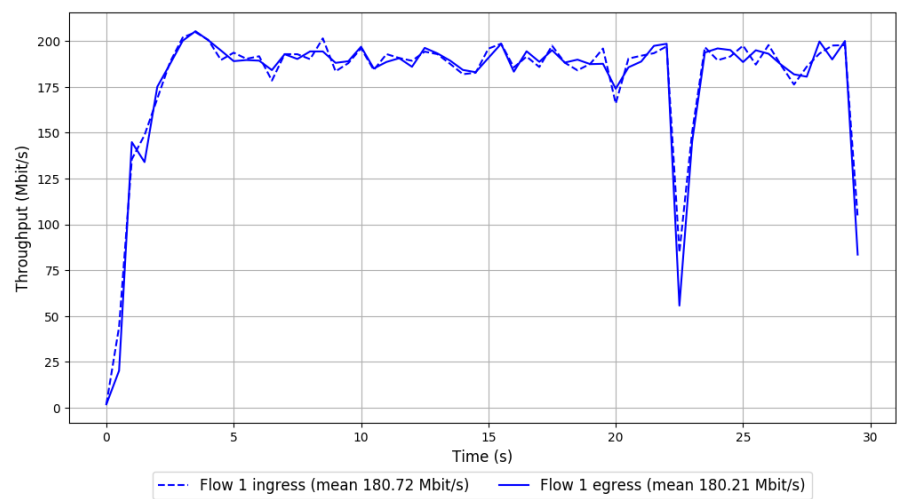
-- Flow 1:

Average throughput: 180.21 Mbit/s

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

Loss rate: 0.69%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-09 07:34:27

End at: 2018-01-09 07:34:57

Below is generated by plot.py at 2018-01-09 11:12:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.31 Mbit/s

95th percentile per-packet one-way delay: 63.632 ms

Loss rate: 0.47%

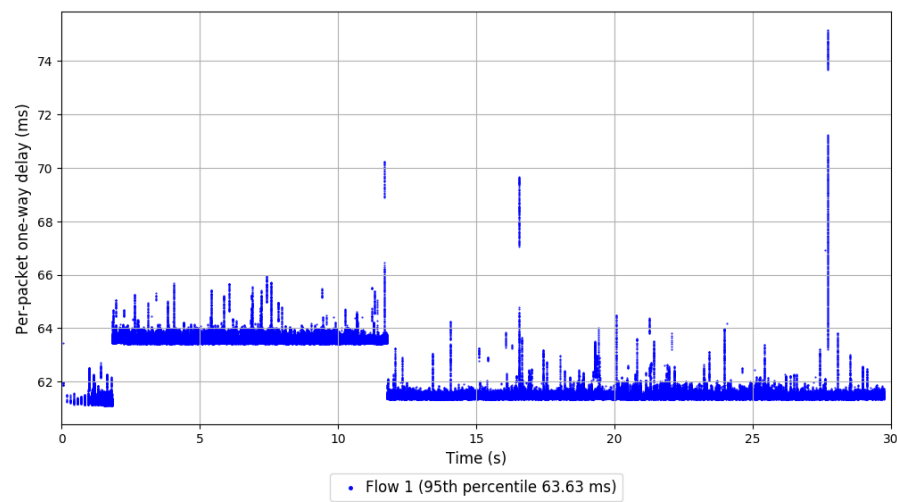
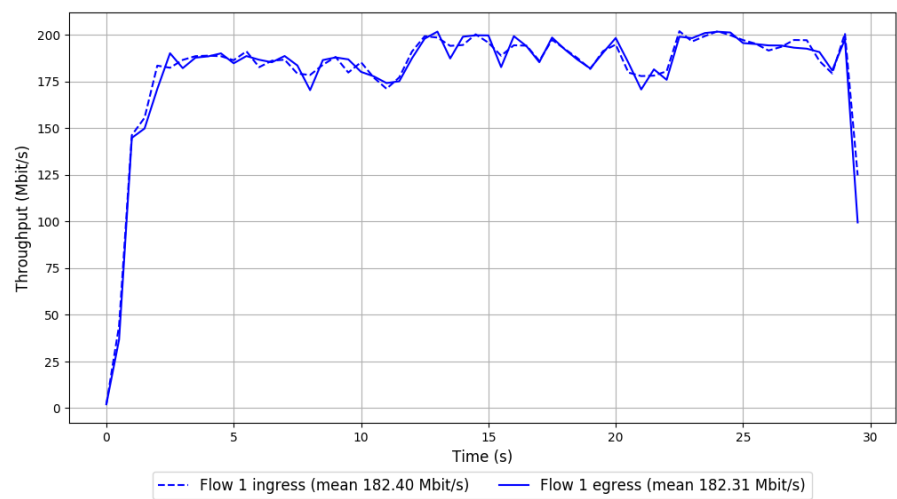
-- Flow 1:

Average throughput: 182.31 Mbit/s

95th percentile per-packet one-way delay: 63.632 ms

Loss rate: 0.47%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-09 07:46:09

End at: 2018-01-09 07:46:39

Below is generated by plot.py at 2018-01-09 11:12:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.33 Mbit/s

95th percentile per-packet one-way delay: 63.636 ms

Loss rate: 0.58%

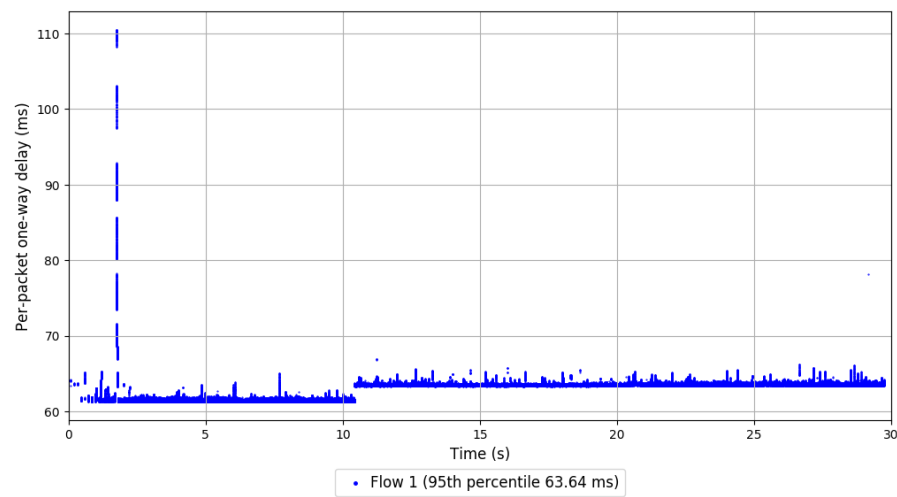
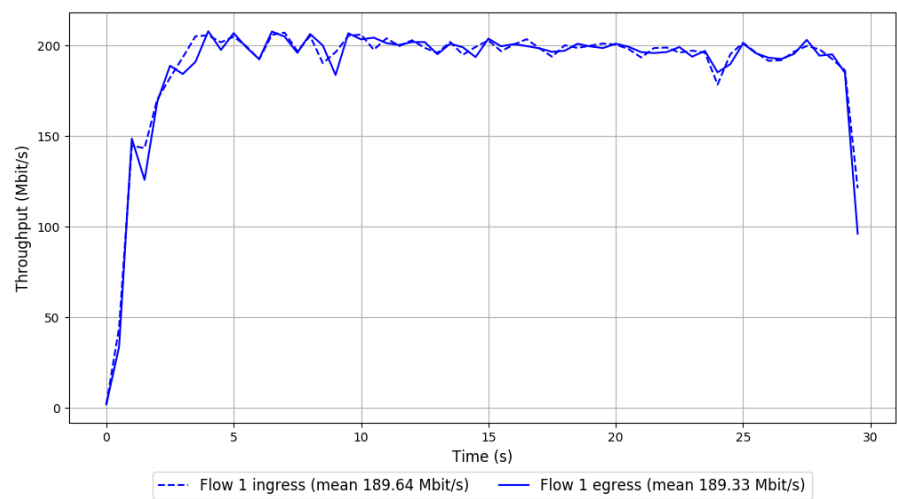
-- Flow 1:

Average throughput: 189.33 Mbit/s

95th percentile per-packet one-way delay: 63.636 ms

Loss rate: 0.58%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-09 07:57:44

End at: 2018-01-09 07:58:14

Below is generated by plot.py at 2018-01-09 11:12:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.13 Mbit/s

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

Loss rate: 0.40%

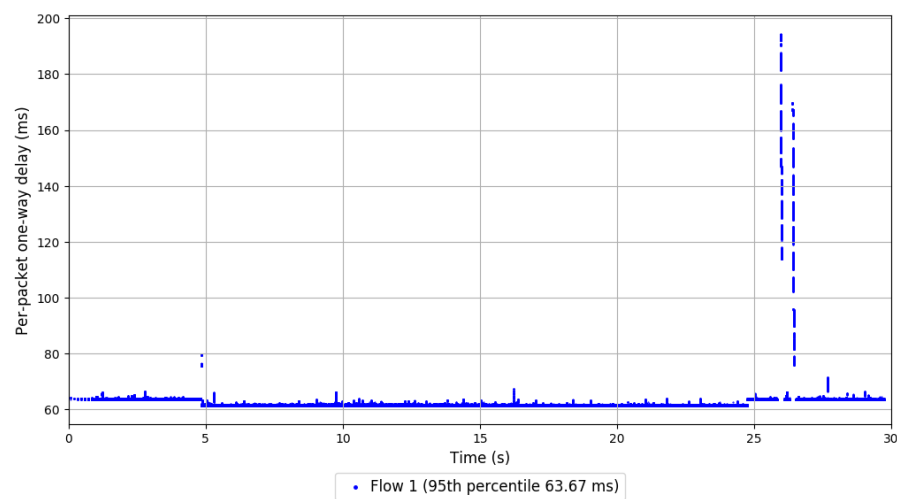
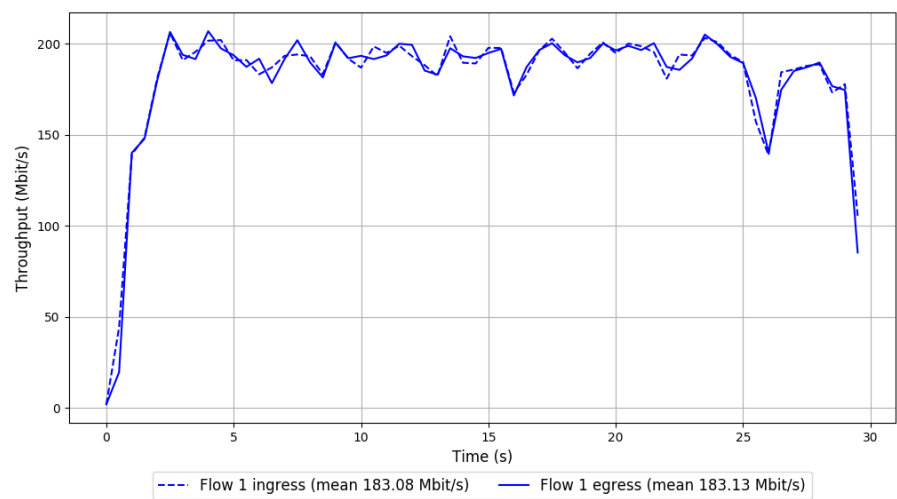
-- Flow 1:

Average throughput: 183.13 Mbit/s

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

Loss rate: 0.40%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-09 08:09:15

End at: 2018-01-09 08:09:45

Below is generated by plot.py at 2018-01-09 11:12:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.62 Mbit/s

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

Loss rate: 0.79%

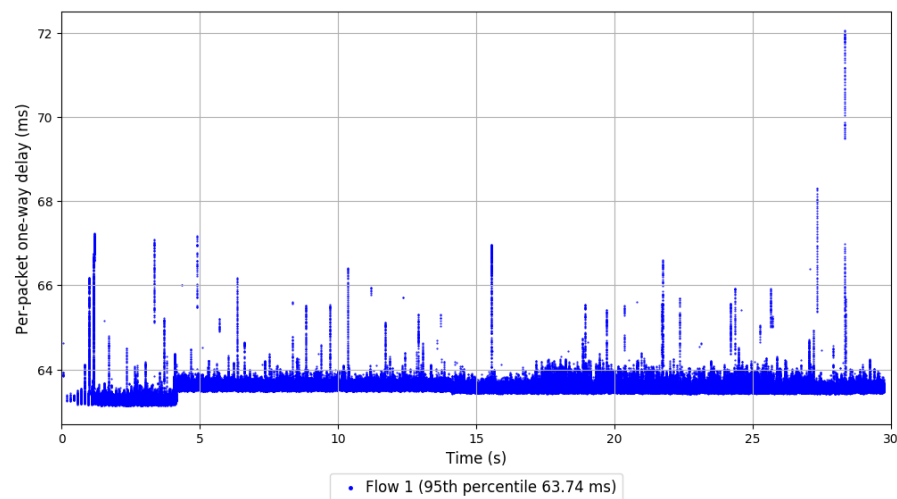
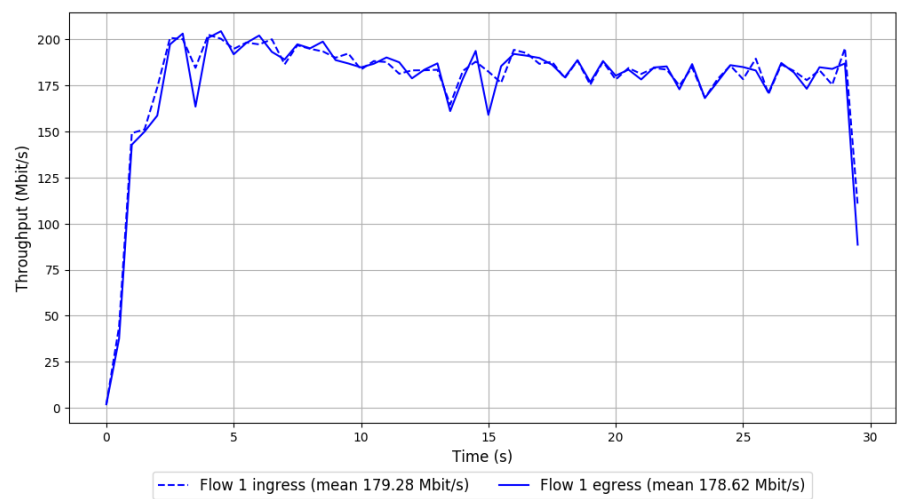
-- Flow 1:

Average throughput: 178.62 Mbit/s

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

Loss rate: 0.79%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-09 08:19:55

End at: 2018-01-09 08:20:25

Below is generated by plot.py at 2018-01-09 11:12:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.67 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 0.45%

-- Flow 1:

Average throughput: 180.67 Mbit/s

95th percentile per-packet one-way delay: 63.649 ms

Loss rate: 0.45%

Run 10: Report of Indigo — Data Link

