

Pantheon Report

Generated at 2018-01-25 21:58:27 (UTC).

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

Repeated the test of 15 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

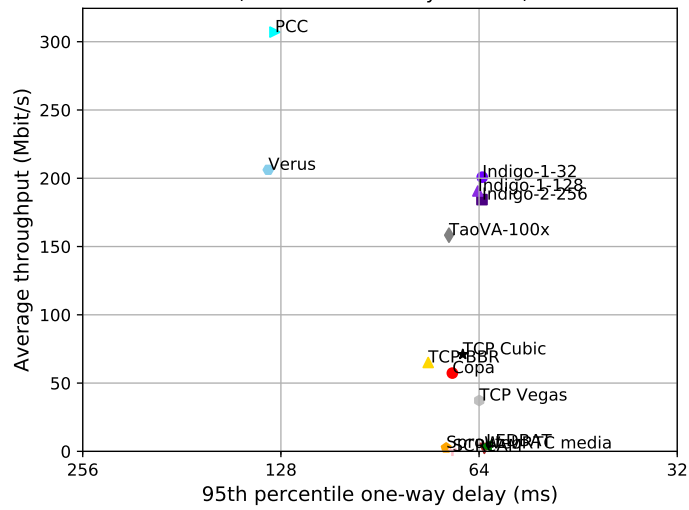
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

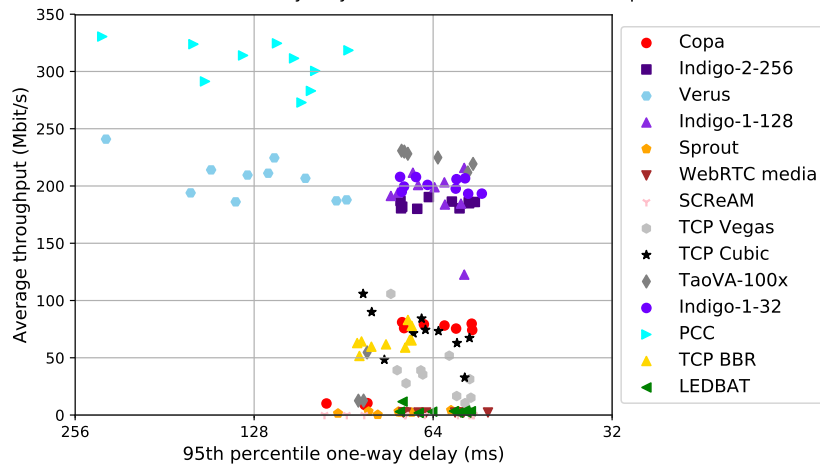
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
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/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Iowa Ethernet to GCE Sydney 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	65.08	76.46	1.15
TCP Cubic	10	71.03	67.76	0.55
LEDBAT	9	3.81	62.45	1.00
PCC	10	307.05	130.68	0.37
QUIC Cubic	0	N/A	N/A	N/A
SCReAM	10	0.22	70.25	0.00
WebRTC media	10	2.15	62.83	0.00
Sprout	10	2.59	71.80	0.78
TaoVA-100x	9	158.31	71.11	0.00
TCP Vegas	10	37.22	63.97	0.92
Verus	10	206.20	133.79	0.90
Copa	10	57.31	70.27	0.10
Indigo-2-256	10	184.36	63.35	0.04
Indigo-1-32	10	200.81	63.30	0.02
Indigo-1-128	10	190.70	64.28	0.03

Run 1: Statistics of TCP BBR

Start at: 2018-01-25 18:30:00

End at: 2018-01-25 18:30:30

Below is generated by plot.py at 2018-01-25 21:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.64 Mbit/s

95th percentile per-packet one-way delay: 70.070 ms

Loss rate: 0.00%

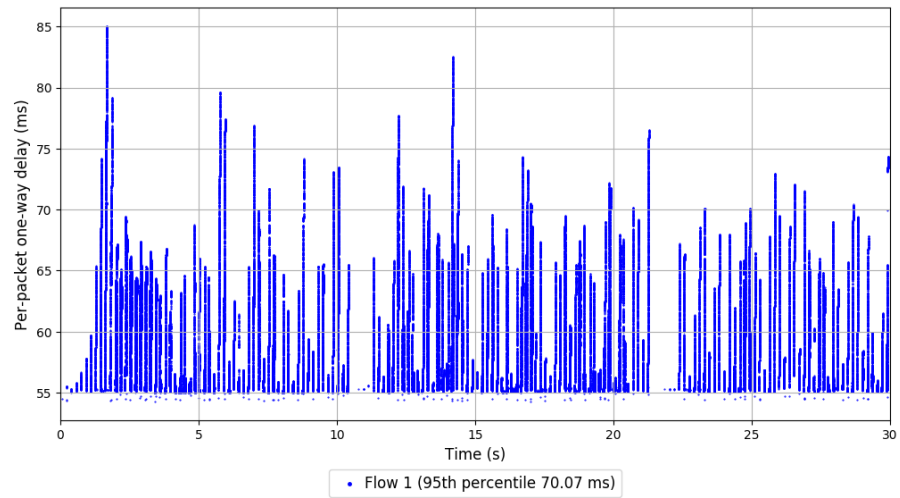
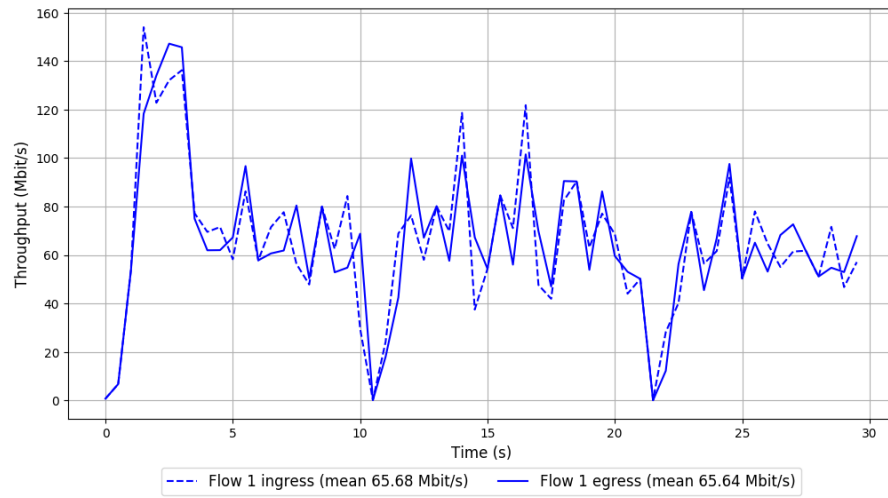
-- Flow 1:

Average throughput: 65.64 Mbit/s

95th percentile per-packet one-way delay: 70.070 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-25 18:42:30

End at: 2018-01-25 18:43:00

Below is generated by plot.py at 2018-01-25 21:23:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 69.572 ms

Loss rate: 1.90%

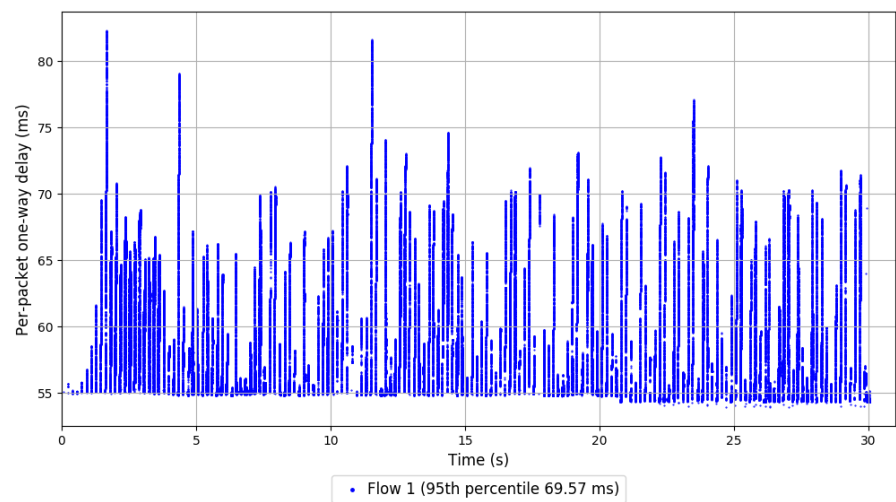
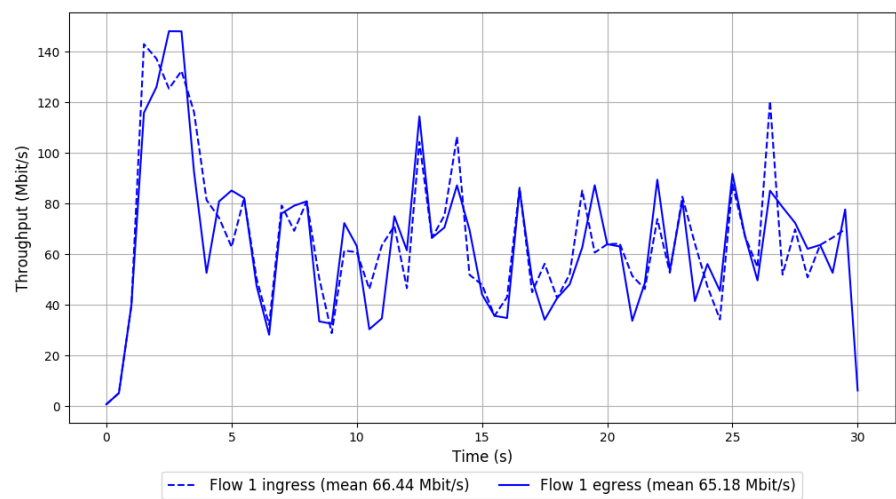
-- Flow 1:

Average throughput: 65.18 Mbit/s

95th percentile per-packet one-way delay: 69.572 ms

Loss rate: 1.90%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-25 18:55:08

End at: 2018-01-25 18:55:38

Below is generated by plot.py at 2018-01-25 21:23:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.91 Mbit/s

95th percentile per-packet one-way delay: 69.529 ms

Loss rate: 0.52%

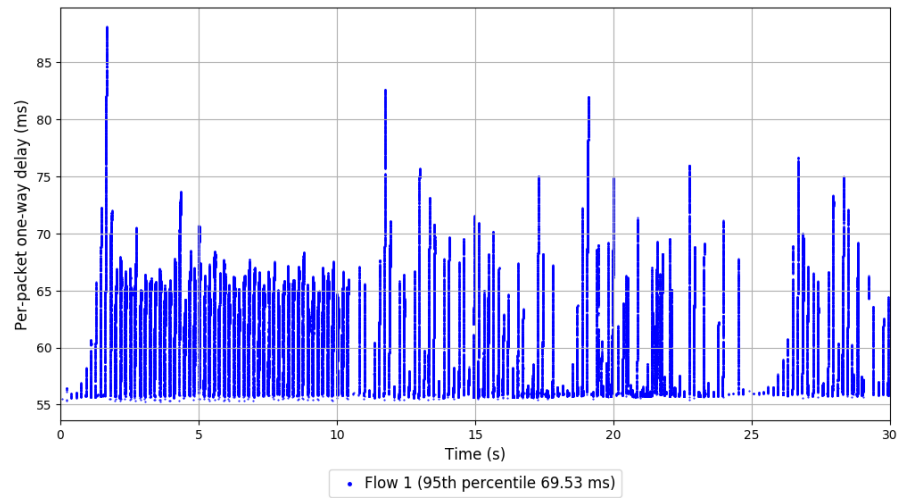
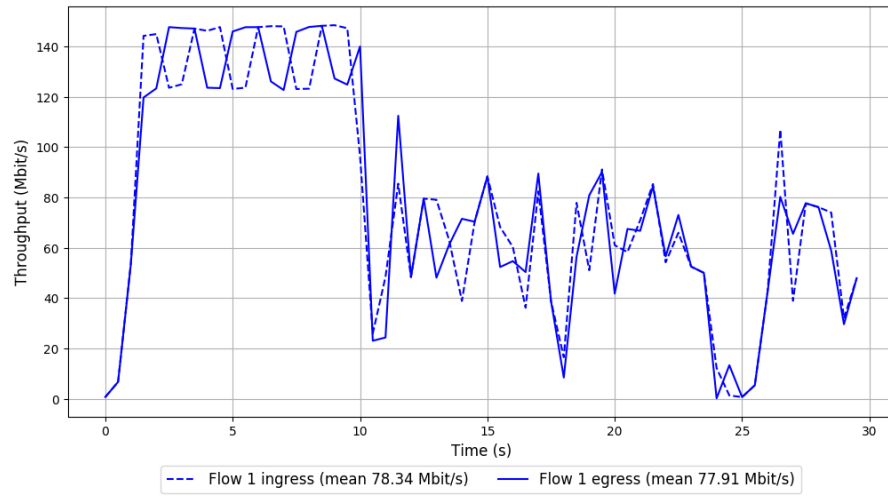
-- Flow 1:

Average throughput: 77.91 Mbit/s

95th percentile per-packet one-way delay: 69.529 ms

Loss rate: 0.52%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-25 19:07:40

End at: 2018-01-25 19:08:10

Below is generated by plot.py at 2018-01-25 21:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 70.561 ms

Loss rate: 0.21%

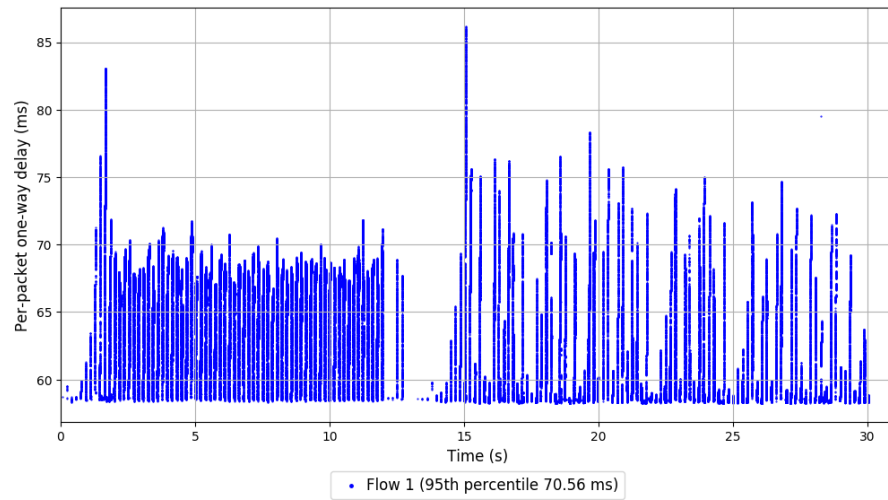
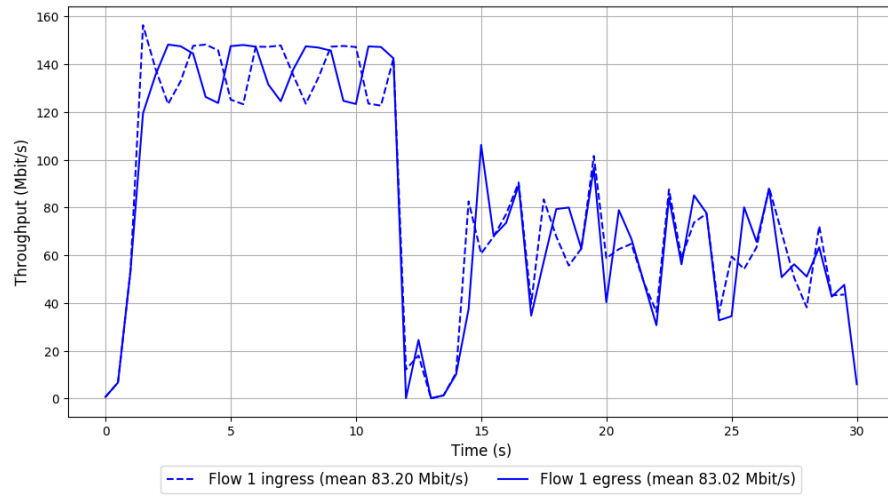
-- Flow 1:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 70.561 ms

Loss rate: 0.21%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-25 19:20:03

End at: 2018-01-25 19:20:33

Below is generated by plot.py at 2018-01-25 21:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.91 Mbit/s

95th percentile per-packet one-way delay: 71.314 ms

Loss rate: 0.72%

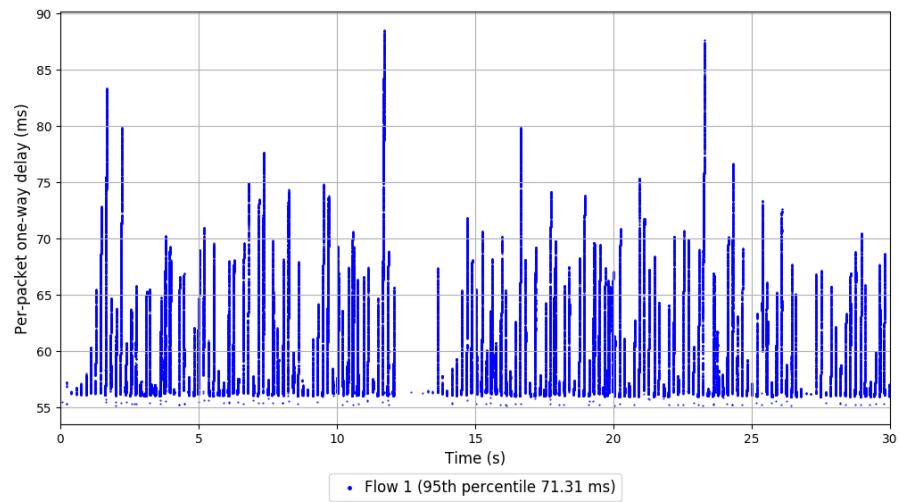
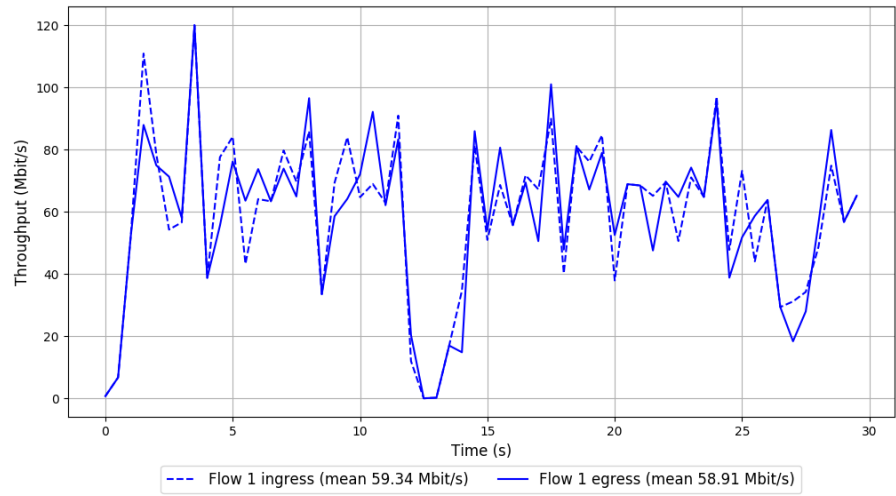
-- Flow 1:

Average throughput: 58.91 Mbit/s

95th percentile per-packet one-way delay: 71.314 ms

Loss rate: 0.72%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-25 19:32:53

End at: 2018-01-25 19:33:23

Below is generated by plot.py at 2018-01-25 21:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 76.811 ms

Loss rate: 2.67%

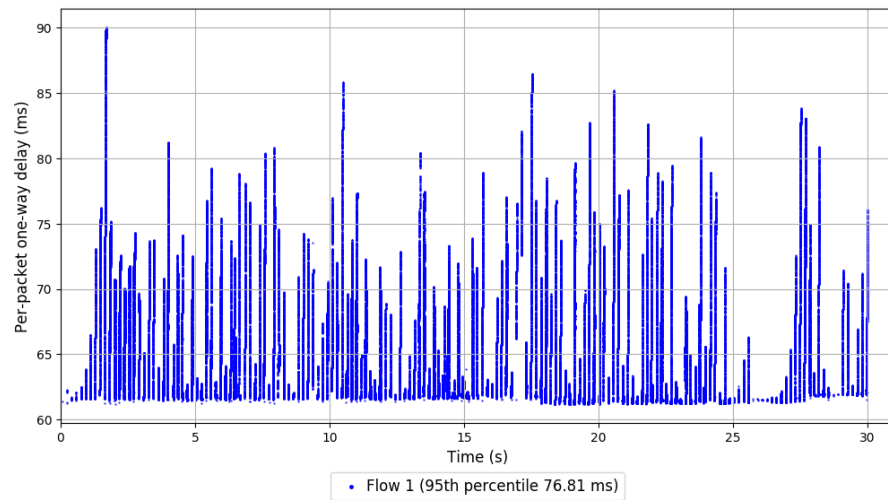
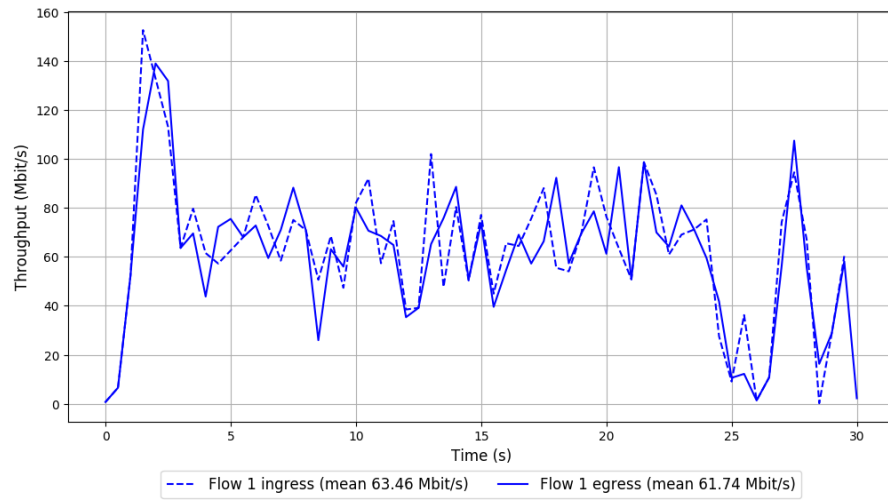
-- Flow 1:

Average throughput: 61.74 Mbit/s

95th percentile per-packet one-way delay: 76.811 ms

Loss rate: 2.67%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-25 19:45:45

End at: 2018-01-25 19:46:15

Below is generated by plot.py at 2018-01-25 21:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.68 Mbit/s

95th percentile per-packet one-way delay: 81.286 ms

Loss rate: 1.17%

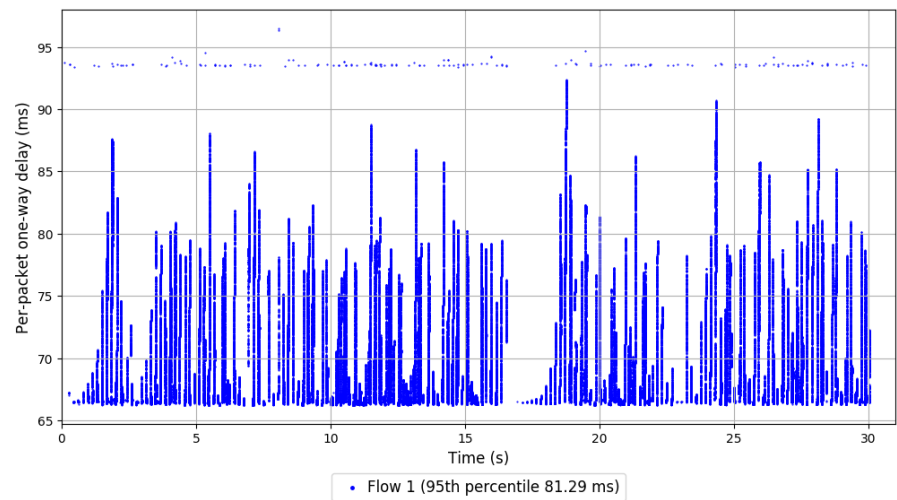
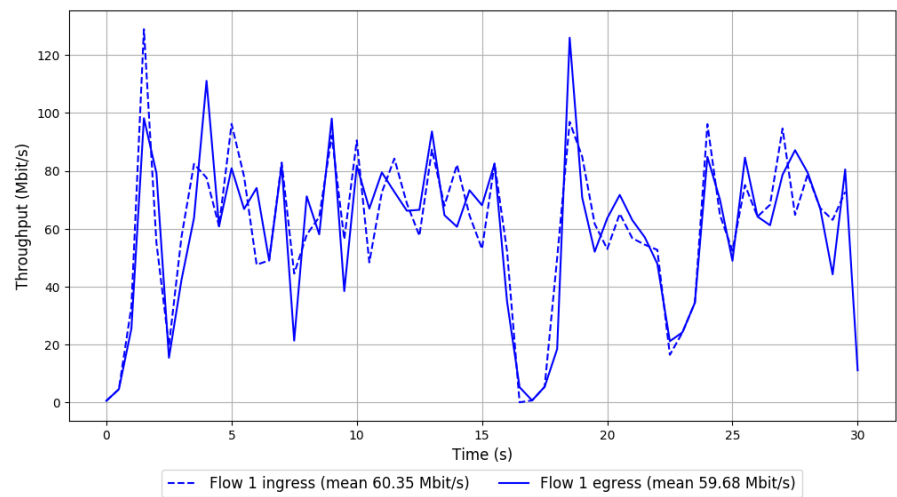
-- Flow 1:

Average throughput: 59.68 Mbit/s

95th percentile per-packet one-way delay: 81.286 ms

Loss rate: 1.17%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-25 19:58:17

End at: 2018-01-25 19:58:47

Below is generated by plot.py at 2018-01-25 21:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 84.460 ms

Loss rate: 1.04%

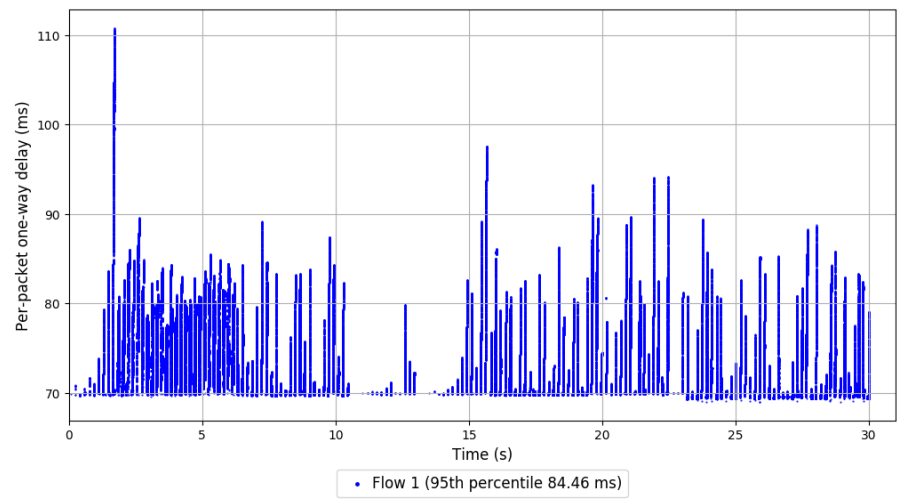
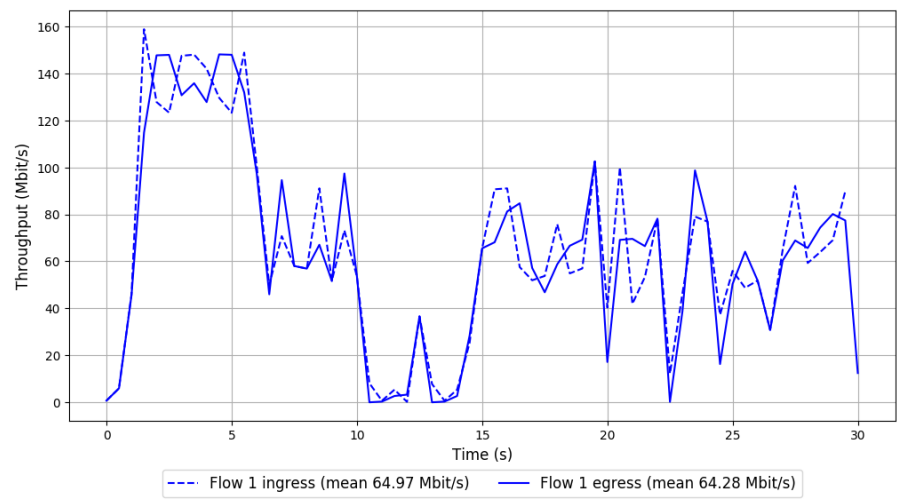
-- Flow 1:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 84.460 ms

Loss rate: 1.04%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-25 20:11:13

End at: 2018-01-25 20:11:43

Below is generated by plot.py at 2018-01-25 21:24:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 85.877 ms

Loss rate: 1.03%

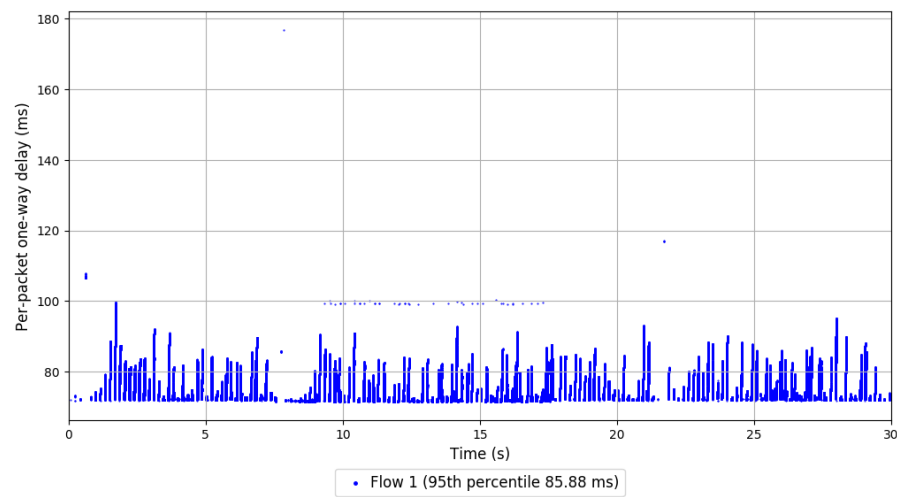
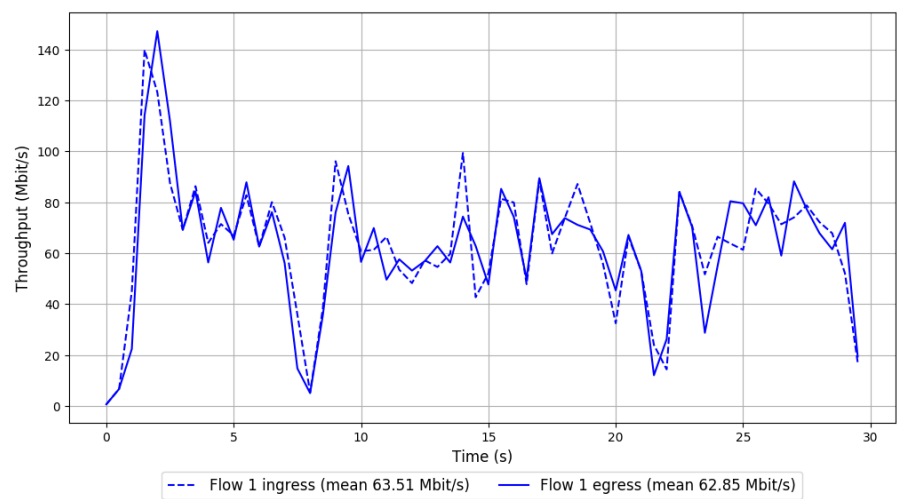
-- Flow 1:

Average throughput: 62.85 Mbit/s

95th percentile per-packet one-way delay: 85.877 ms

Loss rate: 1.03%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-25 20:24:00

End at: 2018-01-25 20:24:30

Below is generated by plot.py at 2018-01-25 21:24:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 85.143 ms

Loss rate: 2.22%

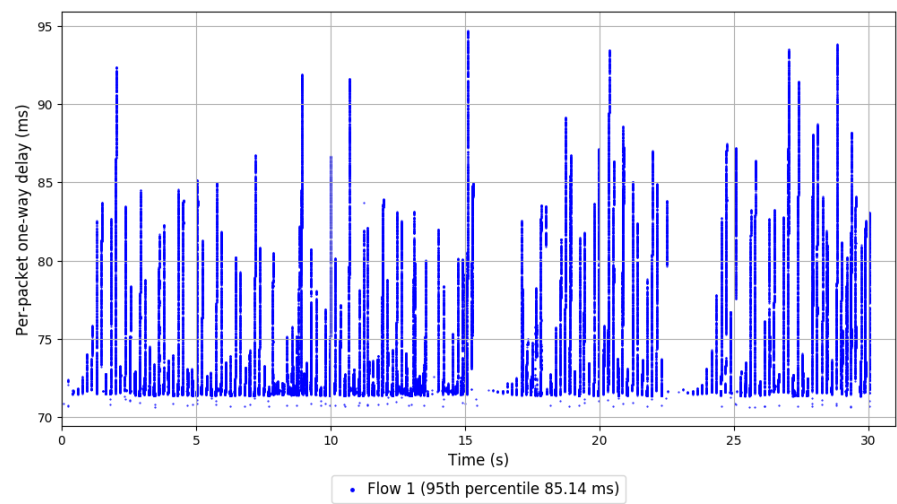
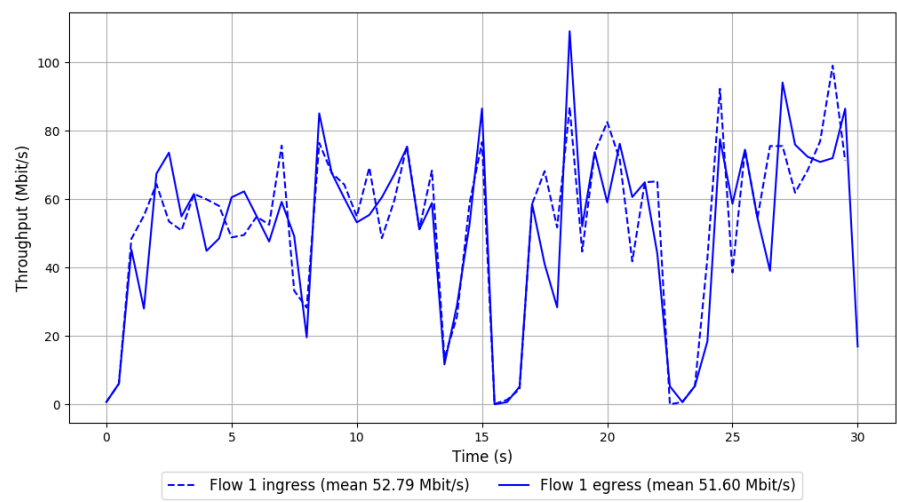
-- Flow 1:

Average throughput: 51.60 Mbit/s

95th percentile per-packet one-way delay: 85.143 ms

Loss rate: 2.22%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-25 18:26:52

End at: 2018-01-25 18:27:22

Below is generated by plot.py at 2018-01-25 21:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 58.346 ms

Loss rate: 0.10%

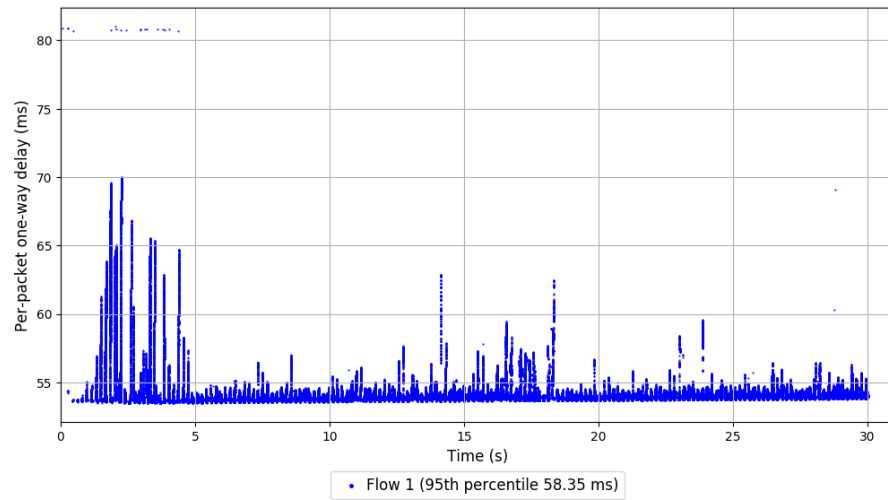
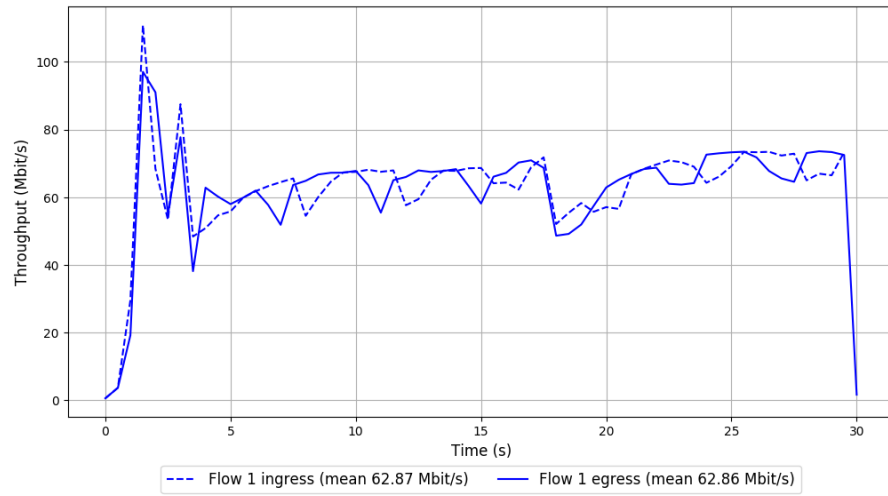
-- Flow 1:

Average throughput: 62.86 Mbit/s

95th percentile per-packet one-way delay: 58.346 ms

Loss rate: 0.10%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-25 18:39:23

End at: 2018-01-25 18:39:53

Below is generated by plot.py at 2018-01-25 21:24:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.71 Mbit/s

95th percentile per-packet one-way delay: 56.628 ms

Loss rate: 2.16%

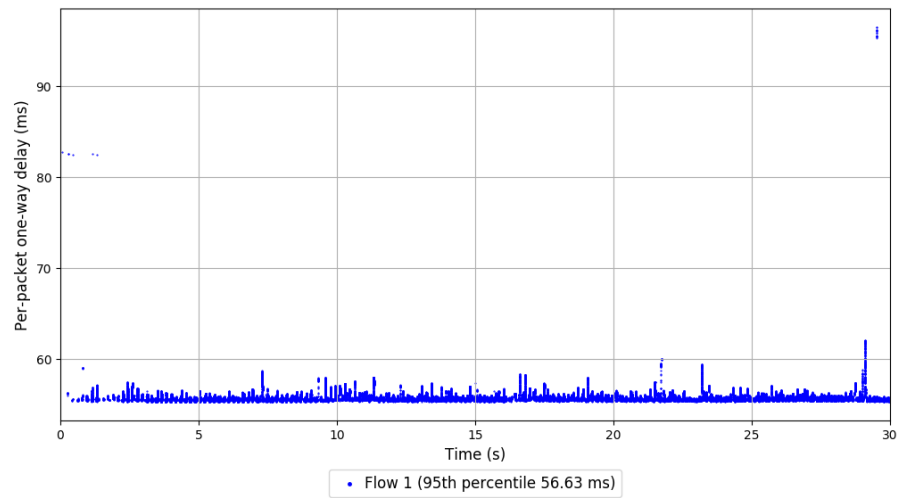
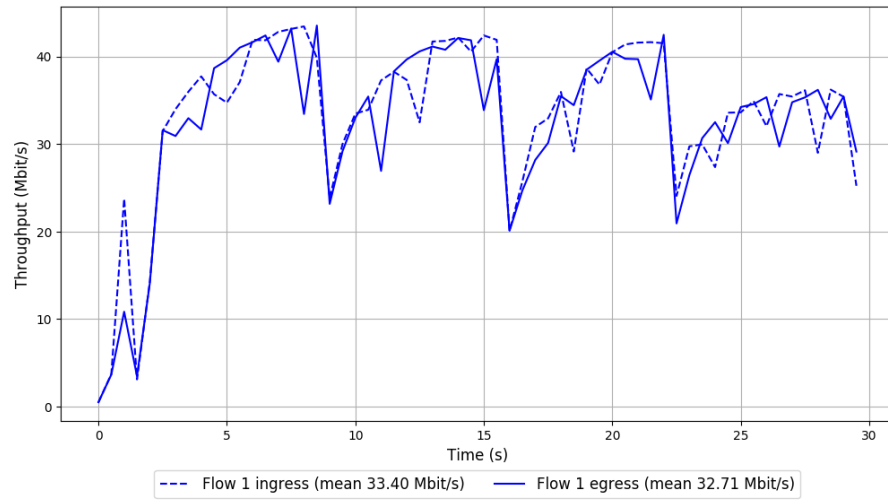
-- Flow 1:

Average throughput: 32.71 Mbit/s

95th percentile per-packet one-way delay: 56.628 ms

Loss rate: 2.16%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-25 18:52:04

End at: 2018-01-25 18:52:34

Below is generated by plot.py at 2018-01-25 21:24:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.27 Mbit/s

95th percentile per-packet one-way delay: 55.592 ms

Loss rate: 0.29%

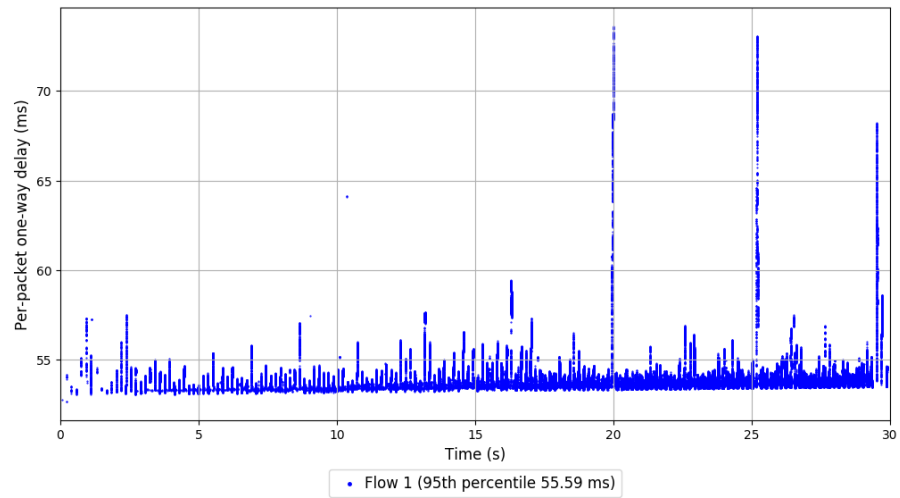
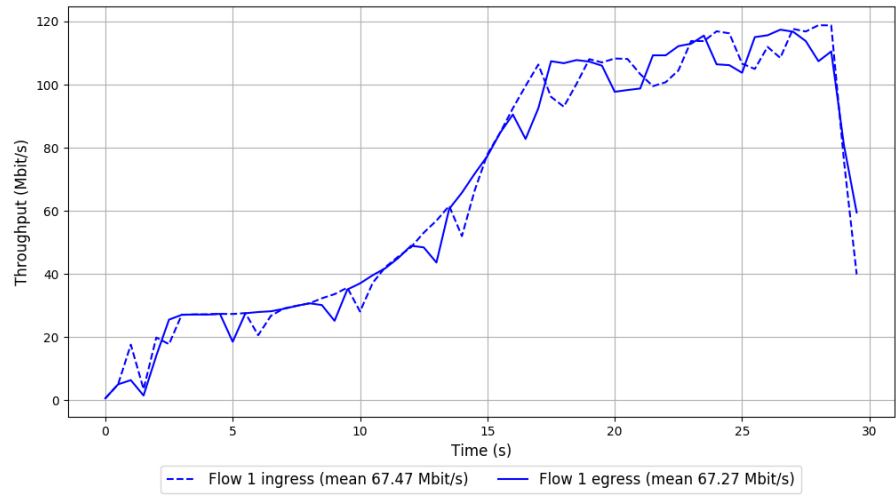
-- Flow 1:

Average throughput: 67.27 Mbit/s

95th percentile per-packet one-way delay: 55.592 ms

Loss rate: 0.29%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-25 19:04:26

End at: 2018-01-25 19:04:56

Below is generated by plot.py at 2018-01-25 21:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.32 Mbit/s

95th percentile per-packet one-way delay: 62.693 ms

Loss rate: 0.45%

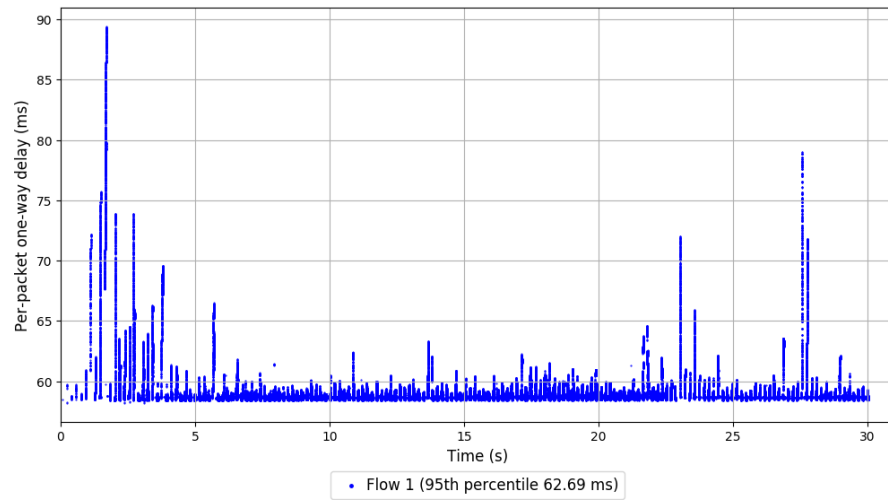
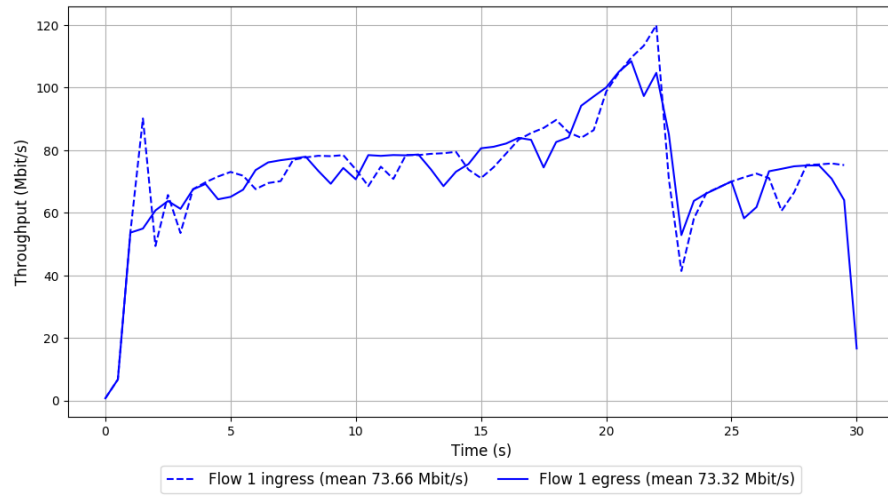
-- Flow 1:

Average throughput: 73.32 Mbit/s

95th percentile per-packet one-way delay: 62.693 ms

Loss rate: 0.45%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-25 19:17:00

End at: 2018-01-25 19:17:30

Below is generated by plot.py at 2018-01-25 21:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 66.925 ms

Loss rate: 0.38%

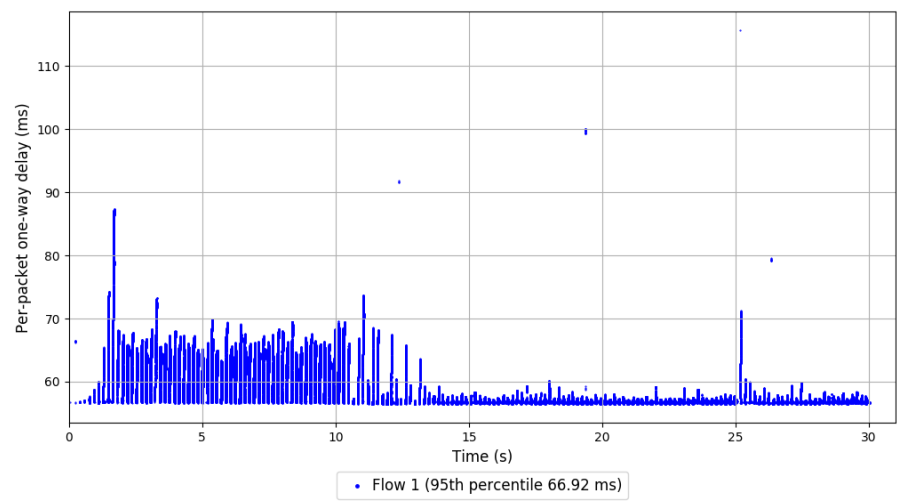
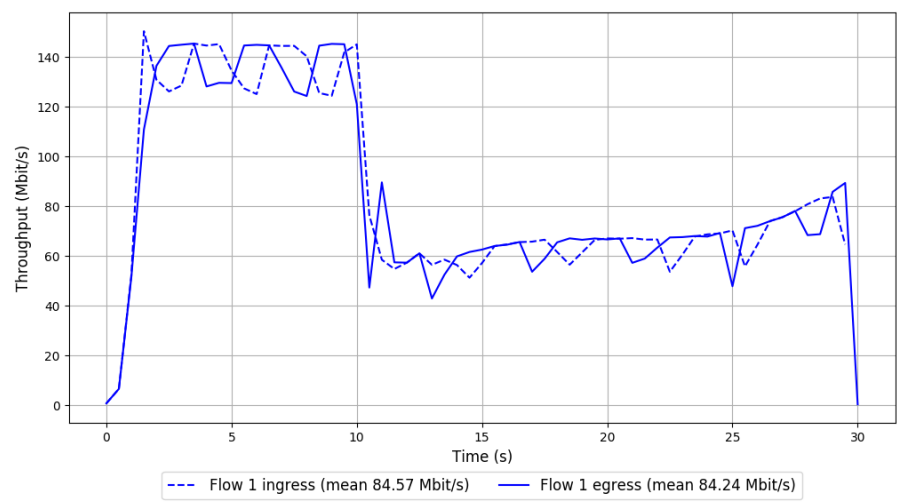
-- Flow 1:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 66.925 ms

Loss rate: 0.38%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-25 19:29:43

End at: 2018-01-25 19:30:13

Below is generated by plot.py at 2018-01-25 21:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 65.929 ms

Loss rate: 0.26%

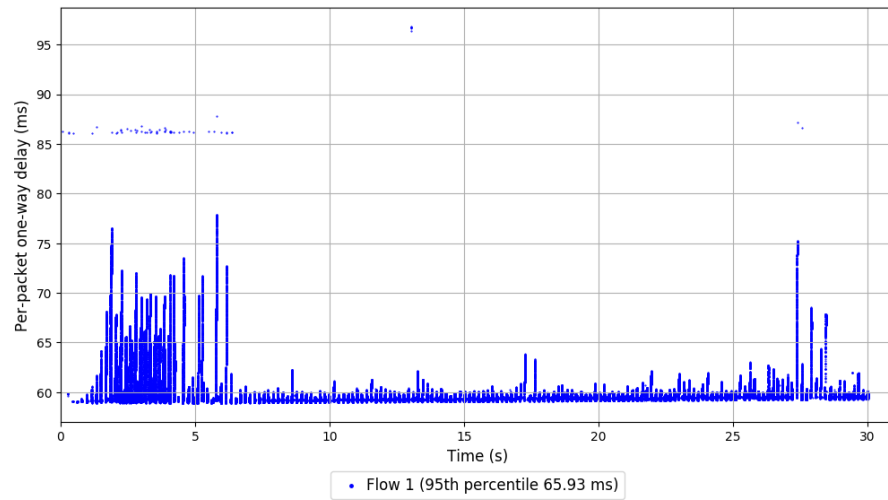
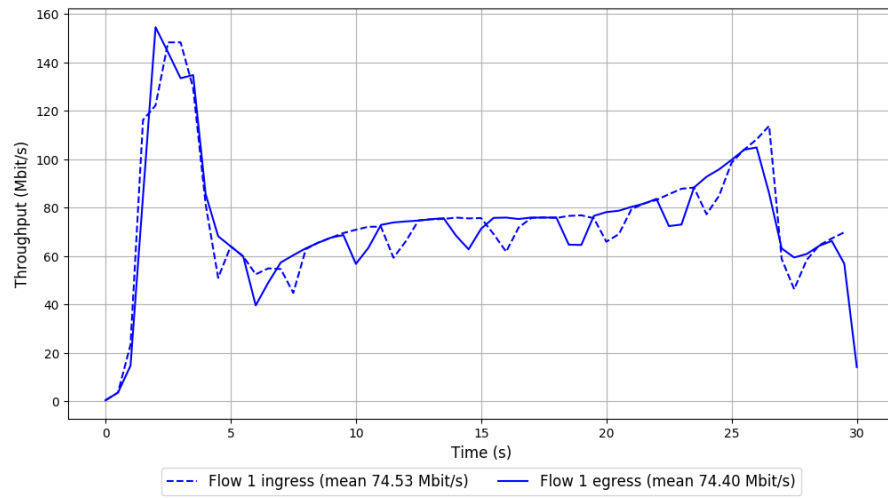
-- Flow 1:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 65.929 ms

Loss rate: 0.26%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-25 19:42:33

End at: 2018-01-25 19:43:03

Below is generated by plot.py at 2018-01-25 21:25:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.41 Mbit/s

95th percentile per-packet one-way delay: 69.080 ms

Loss rate: 0.75%

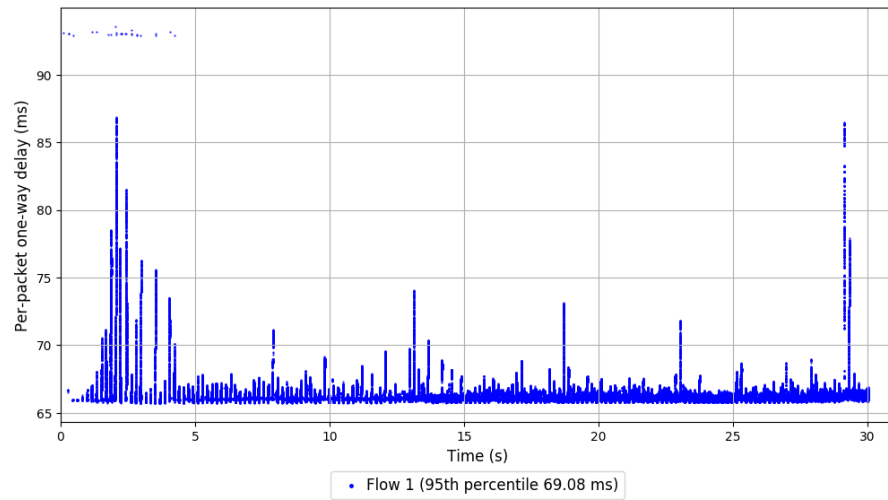
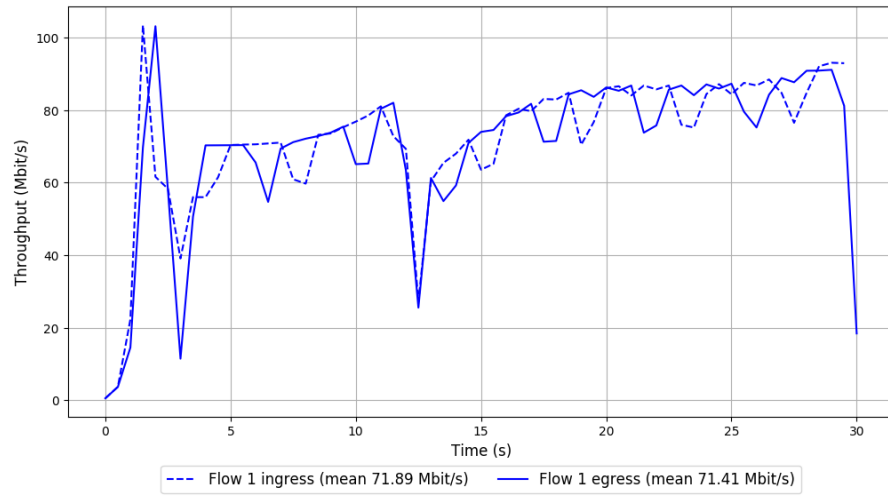
-- Flow 1:

Average throughput: 71.41 Mbit/s

95th percentile per-packet one-way delay: 69.080 ms

Loss rate: 0.75%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-25 19:55:13

End at: 2018-01-25 19:55:43

Below is generated by plot.py at 2018-01-25 21:25:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 77.289 ms

Loss rate: 0.32%

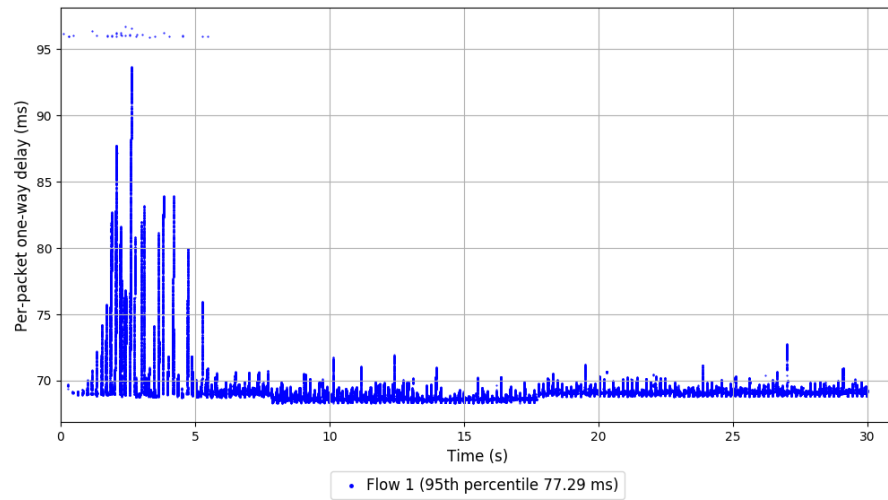
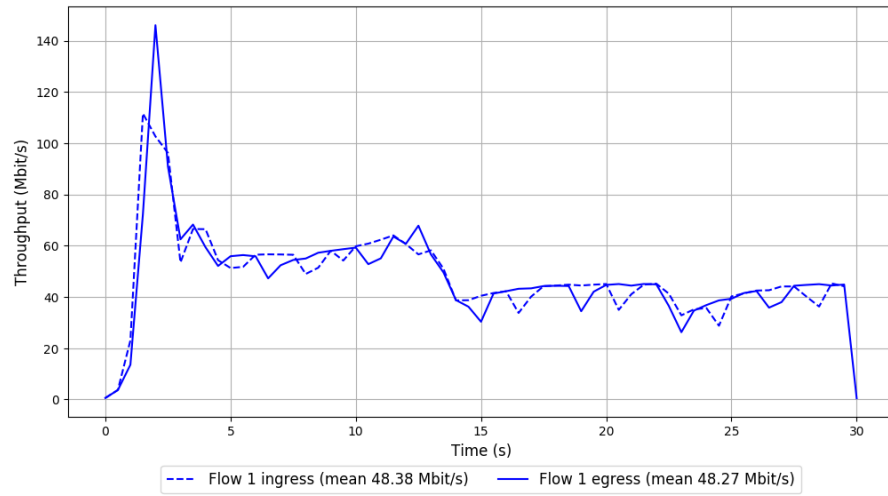
-- Flow 1:

Average throughput: 48.27 Mbit/s

95th percentile per-packet one-way delay: 77.289 ms

Loss rate: 0.32%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-25 20:07:58

End at: 2018-01-25 20:08:28

Below is generated by plot.py at 2018-01-25 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.83 Mbit/s

95th percentile per-packet one-way delay: 83.918 ms

Loss rate: 0.38%

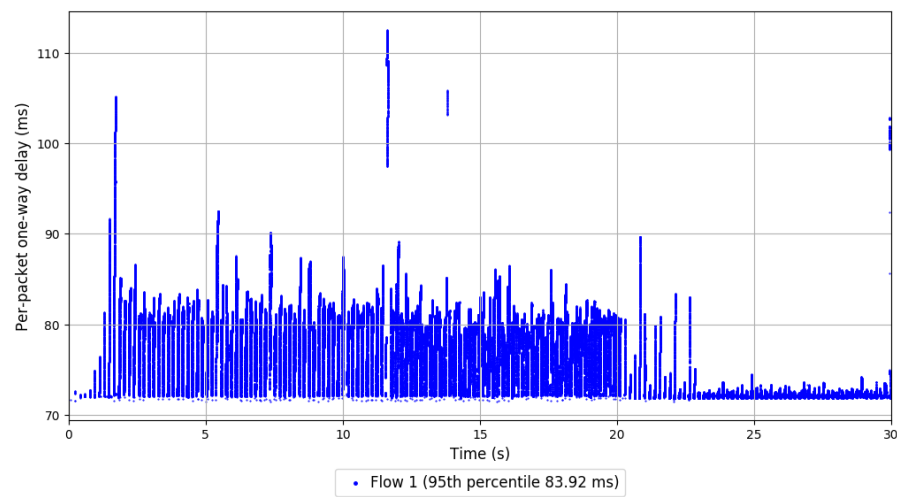
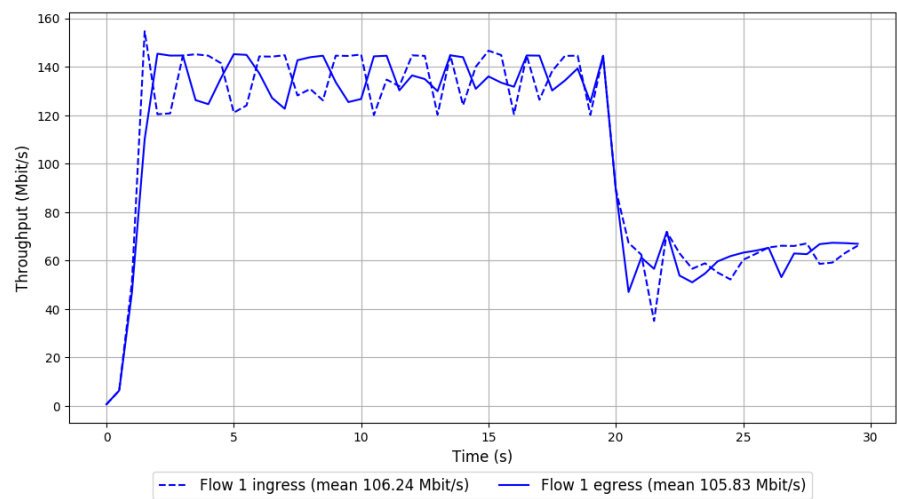
-- Flow 1:

Average throughput: 105.83 Mbit/s

95th percentile per-packet one-way delay: 83.918 ms

Loss rate: 0.38%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-25 20:20:45

End at: 2018-01-25 20:21:15

Below is generated by plot.py at 2018-01-25 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.95 Mbit/s

95th percentile per-packet one-way delay: 81.186 ms

Loss rate: 0.45%

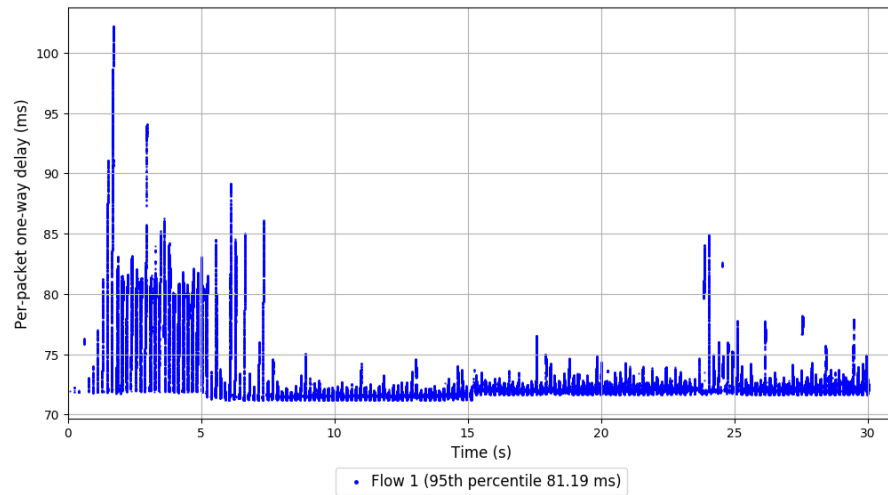
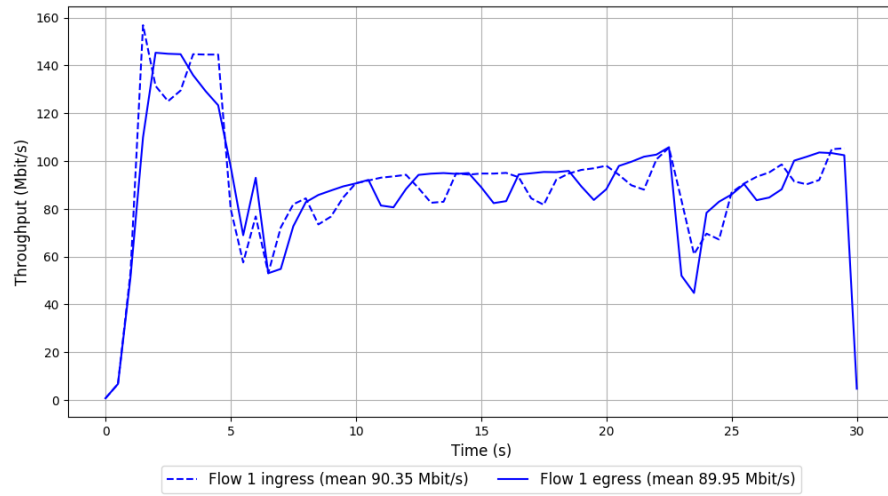
-- Flow 1:

Average throughput: 89.95 Mbit/s

95th percentile per-packet one-way delay: 81.186 ms

Loss rate: 0.45%

Run 10: Report of TCP Cubic — Data Link

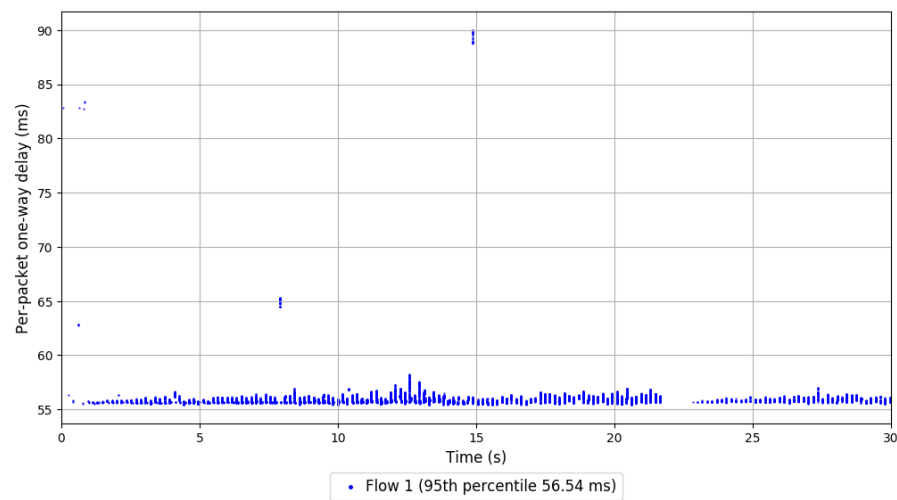
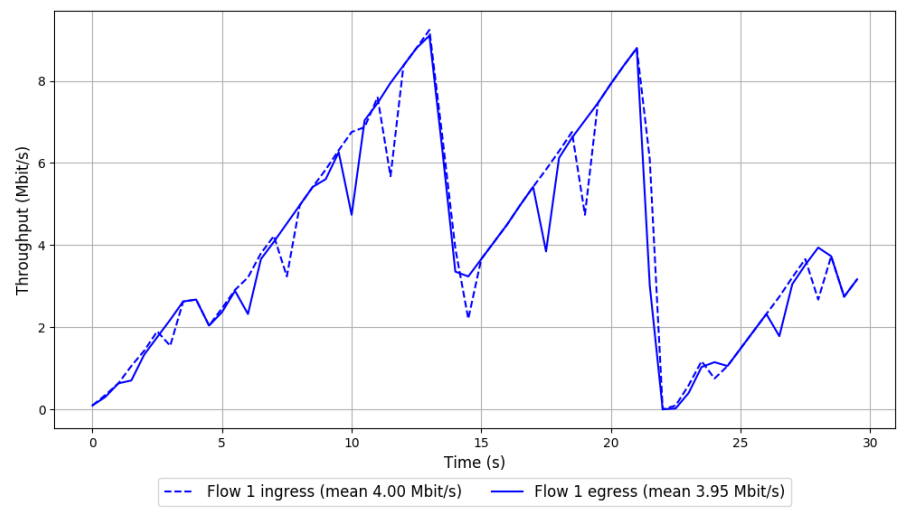


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-25 18:32:10
End at: 2018-01-25 18:32:40

# Below is generated by plot.py at 2018-01-25 21:25:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 56.538 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 3.95 Mbit/s
95th percentile per-packet one-way delay: 56.538 ms
Loss rate: 1.29%
```


Run 1: Report of LEDBAT — Data Link

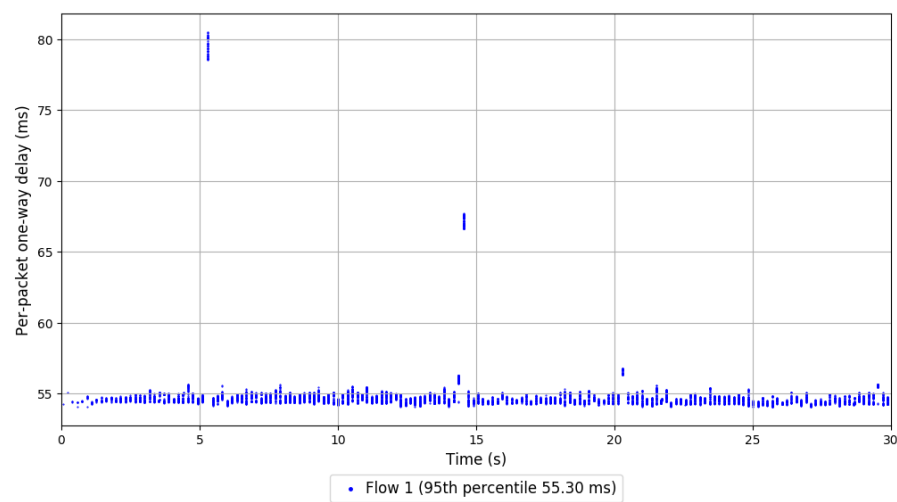
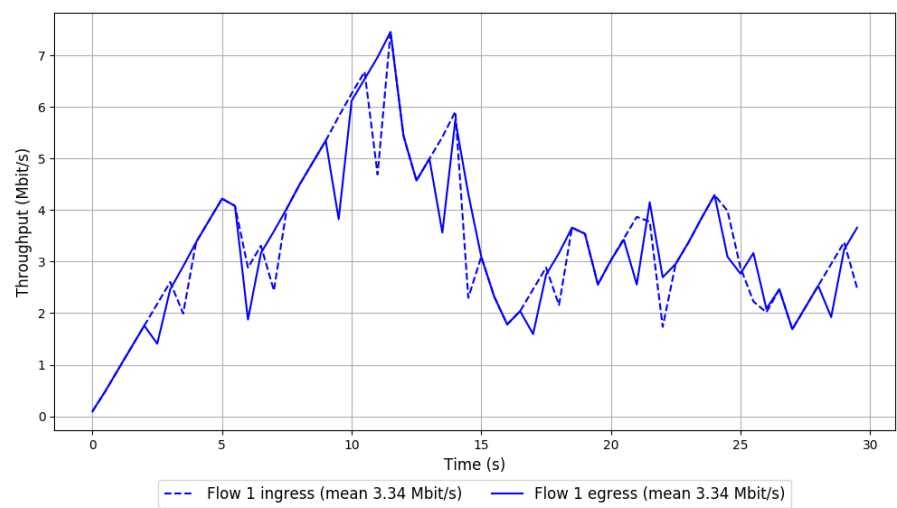


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-25 18:44:55
End at: 2018-01-25 18:45:25

# Below is generated by plot.py at 2018-01-25 21:25:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 55.298 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 55.298 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-25 18:57:16

End at: 2018-01-25 18:57:46

Below is generated by plot.py at 2018-01-25 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 58.059 ms

Loss rate: 1.55%

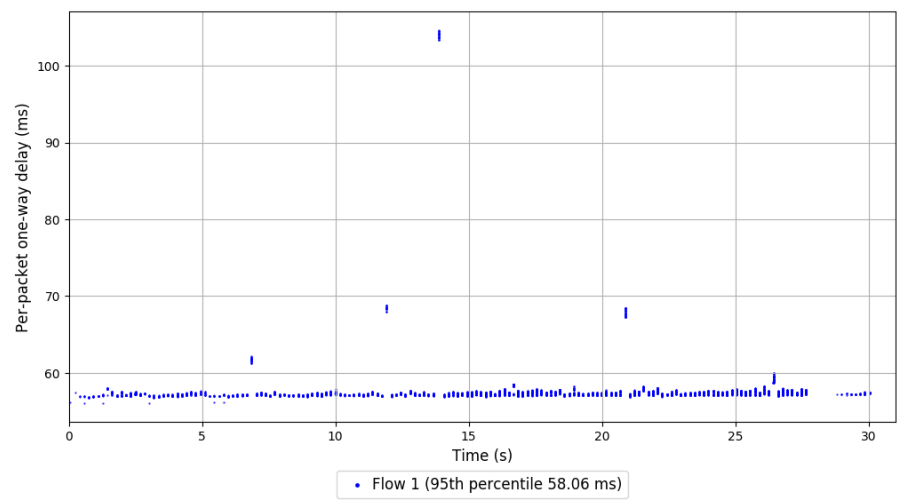
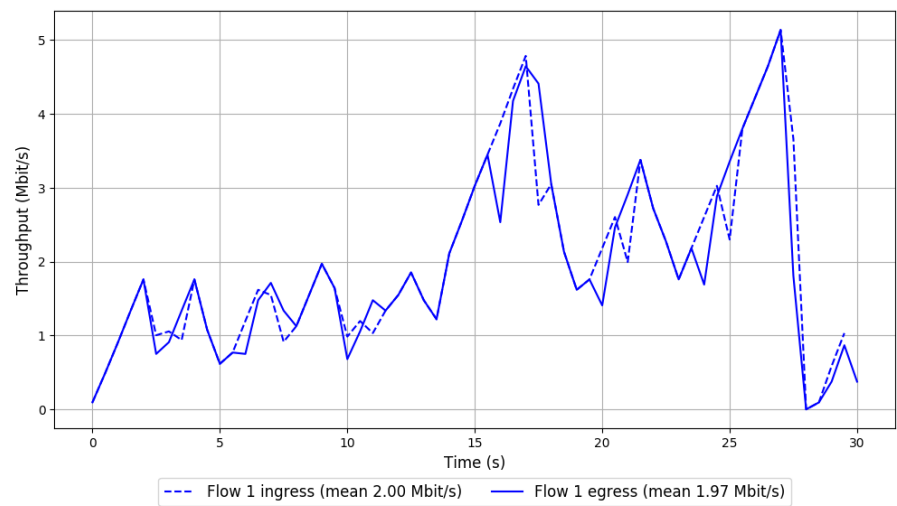
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 58.059 ms

Loss rate: 1.55%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-25 19:09:47

End at: 2018-01-25 19:10:17

Below is generated by plot.py at 2018-01-25 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 59.058 ms

Loss rate: 2.45%

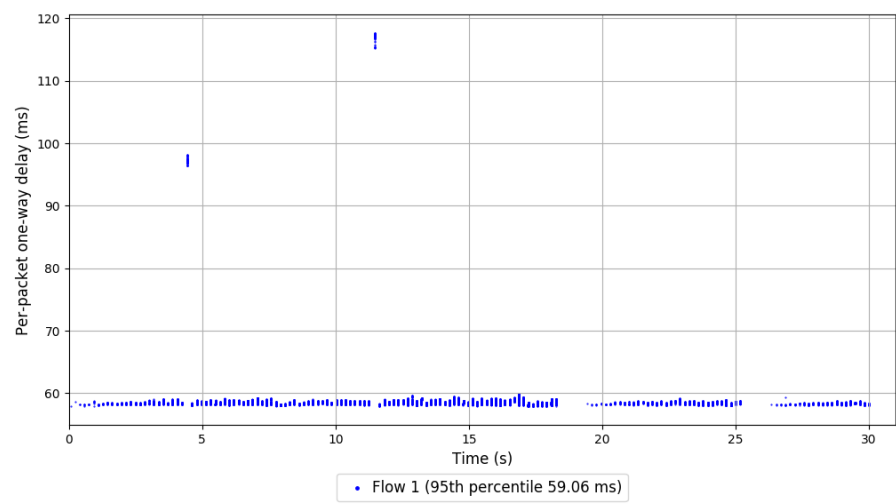
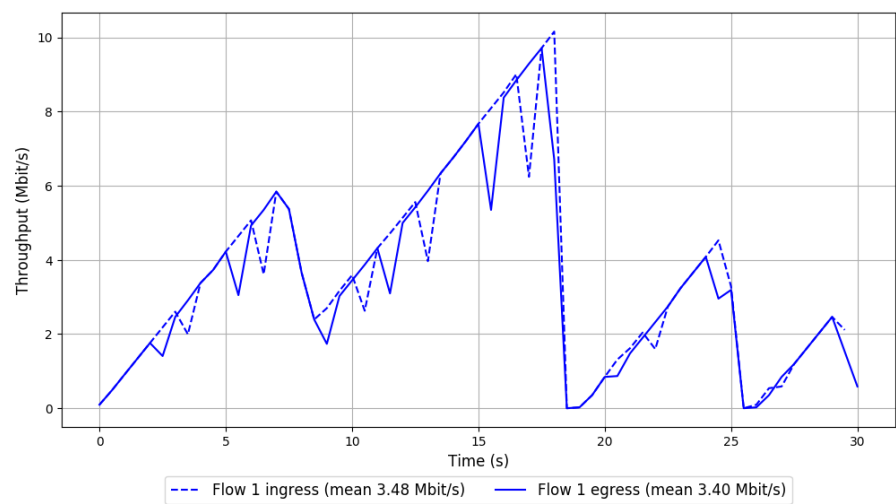
-- Flow 1:

Average throughput: 3.40 Mbit/s

95th percentile per-packet one-way delay: 59.058 ms

Loss rate: 2.45%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-25 19:22:28

End at: 2018-01-25 19:22:58

Below is generated by plot.py at 2018-01-25 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 56.308 ms

Loss rate: 1.25%

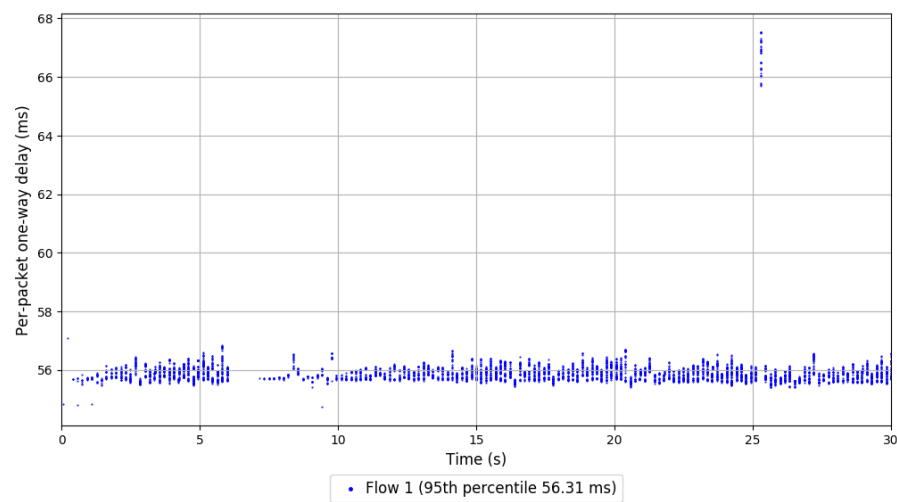
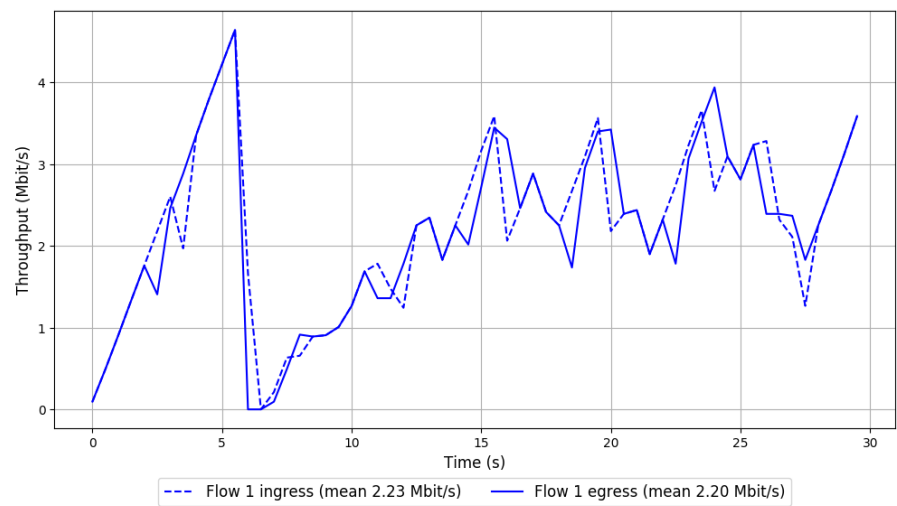
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 56.308 ms

Loss rate: 1.25%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-25 19:35:19

End at: 2018-01-25 19:35:49

Below is generated by plot.py at 2018-01-25 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 64.224 ms

Loss rate: 0.04%

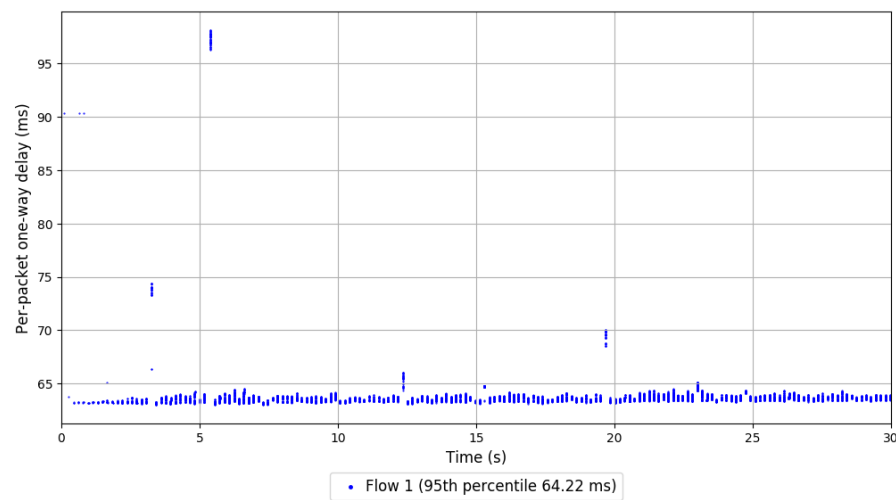
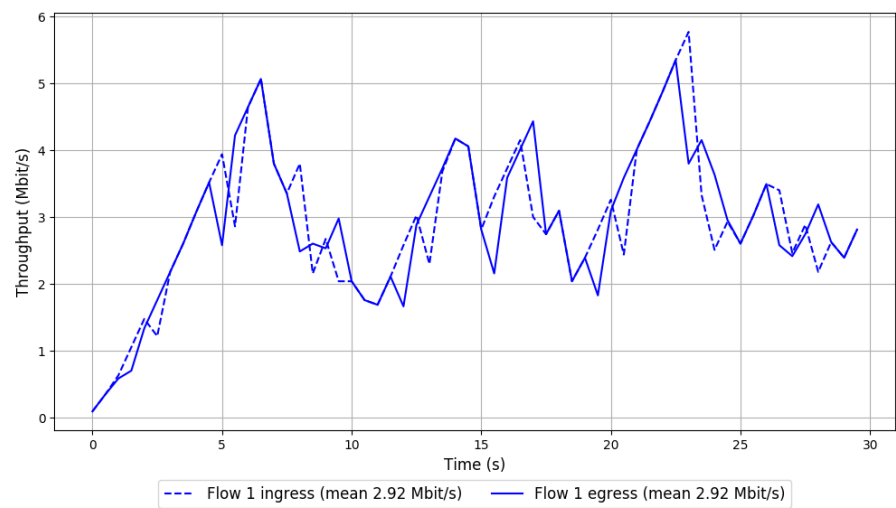
-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 64.224 ms

Loss rate: 0.04%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-25 19:47:59

End at: 2018-01-25 19:48:29

Below is generated by plot.py at 2018-01-25 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 67.689 ms

Loss rate: 1.46%

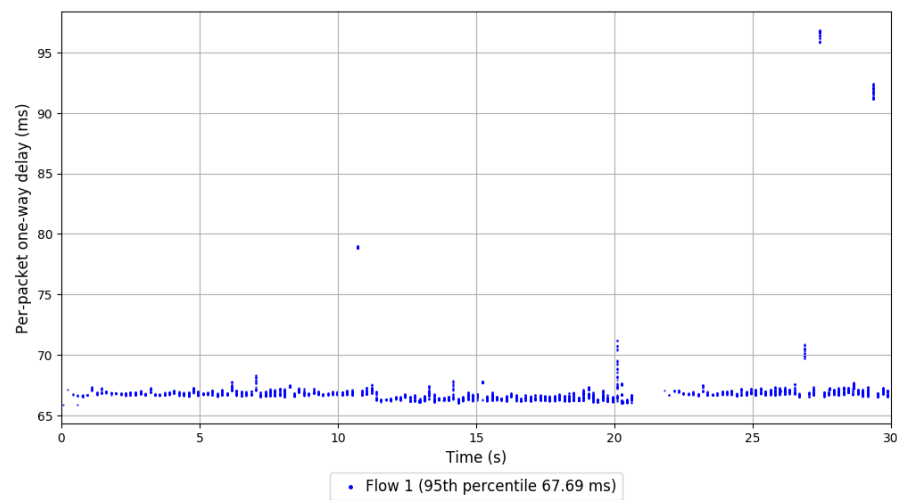
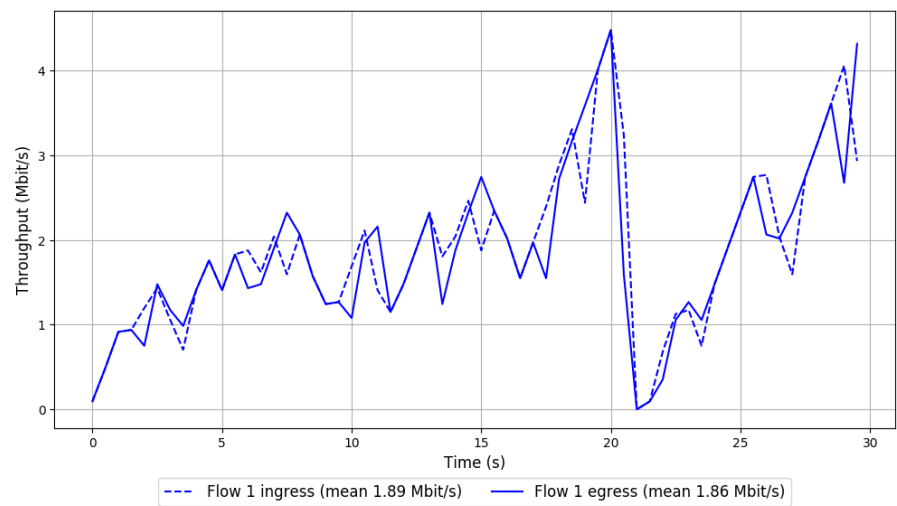
-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 67.689 ms

Loss rate: 1.46%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-25 20:00:44

End at: 2018-01-25 20:01:14

Below is generated by plot.py at 2018-01-25 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 72.053 ms

Loss rate: 0.00%

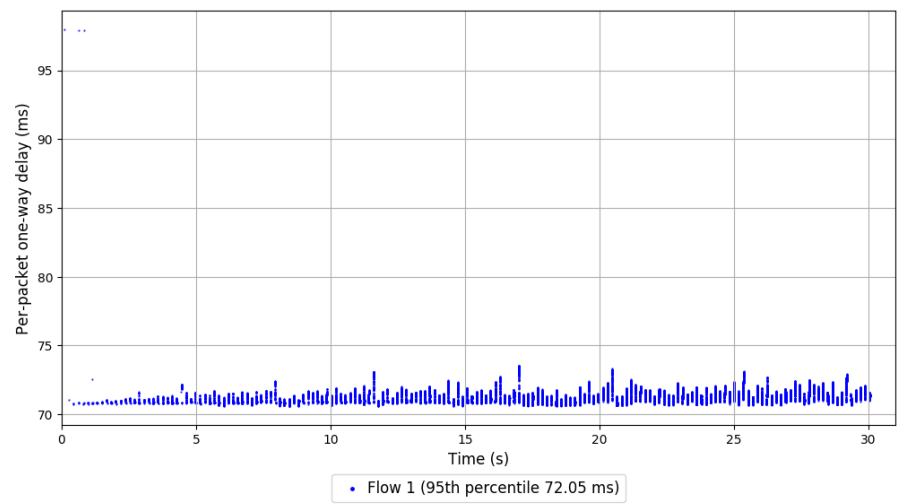
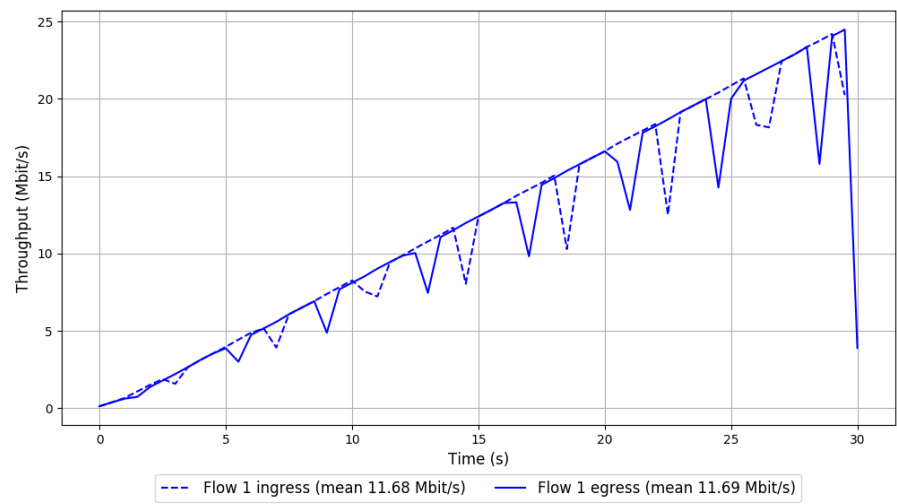
-- Flow 1:

Average throughput: 11.69 Mbit/s

95th percentile per-packet one-way delay: 72.053 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

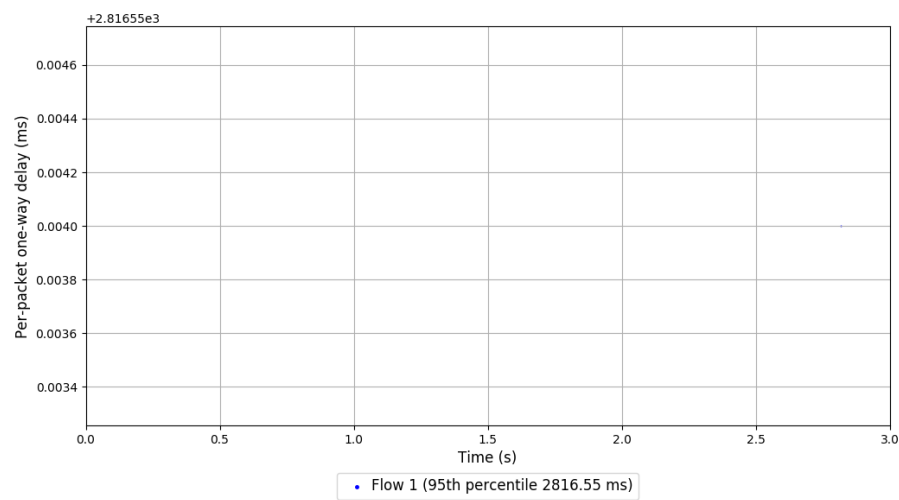
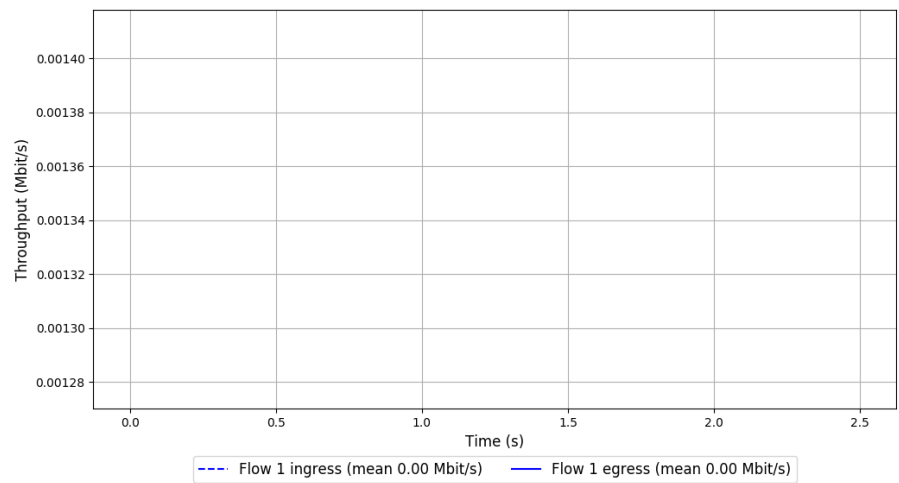


Run 9: Statistics of LEDBAT

Start at: 2018-01-25 20:13:41

End at: 2018-01-25 20:14:11

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-25 20:26:23

End at: 2018-01-25 20:26:53

Below is generated by plot.py at 2018-01-25 21:25:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 72.782 ms

Loss rate: 1.00%

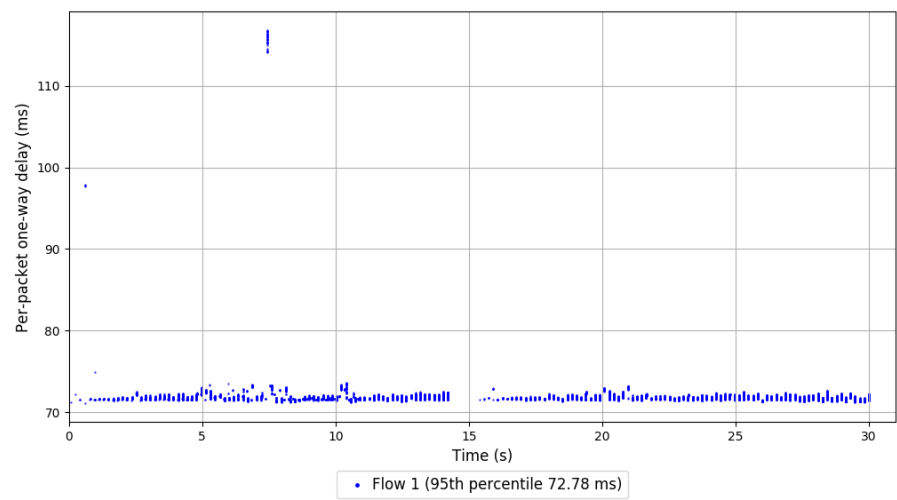
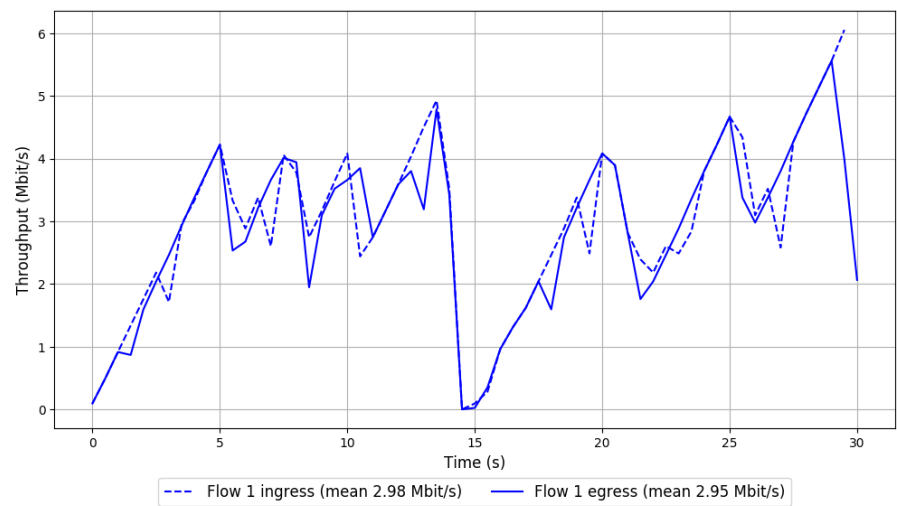
-- Flow 1:

Average throughput: 2.95 Mbit/s

95th percentile per-packet one-way delay: 72.782 ms

Loss rate: 1.00%

Run 10: Report of LEDBAT — Data Link

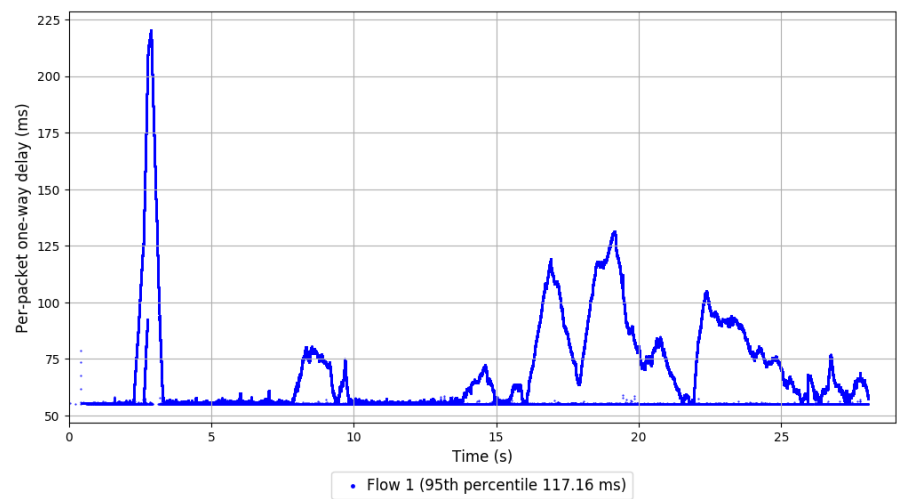
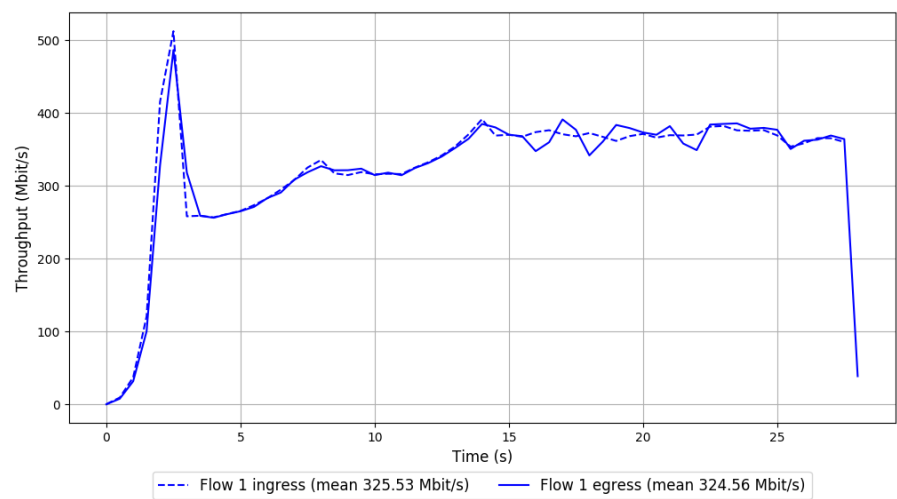


```
Run 1: Statistics of PCC

Start at: 2018-01-25 18:34:26
End at: 2018-01-25 18:34:56

# Below is generated by plot.py at 2018-01-25 21:30:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 324.56 Mbit/s
95th percentile per-packet one-way delay: 117.159 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 324.56 Mbit/s
95th percentile per-packet one-way delay: 117.159 ms
Loss rate: 0.29%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-25 18:47:10

End at: 2018-01-25 18:47:40

Below is generated by plot.py at 2018-01-25 21:30:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.50 Mbit/s

95th percentile per-packet one-way delay: 101.039 ms

Loss rate: 0.31%

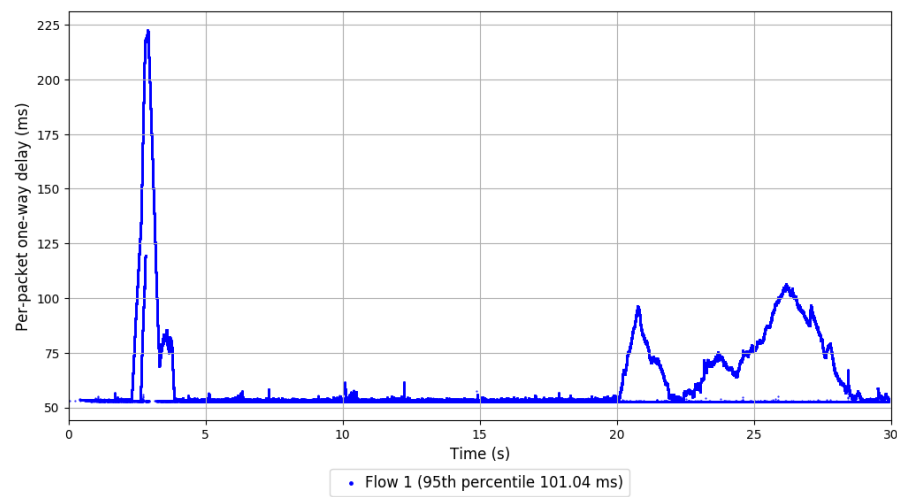
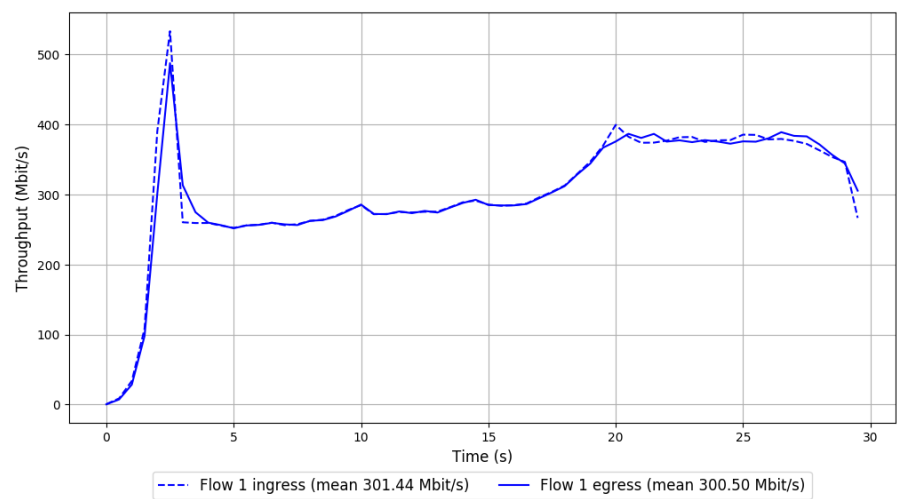
-- Flow 1:

Average throughput: 300.50 Mbit/s

95th percentile per-packet one-way delay: 101.039 ms

Loss rate: 0.31%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-25 18:59:30

End at: 2018-01-25 19:00:00

Below is generated by plot.py at 2018-01-25 21:30:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.87 Mbit/s

95th percentile per-packet one-way delay: 106.549 ms

Loss rate: 0.56%

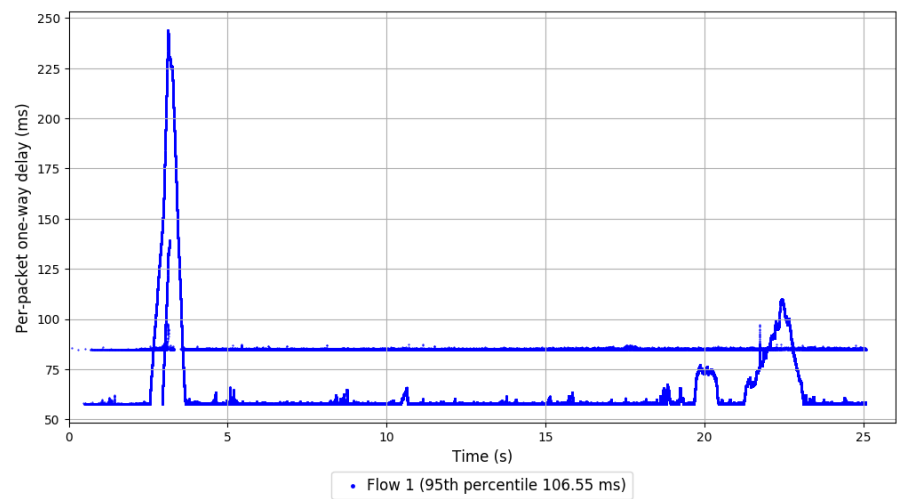
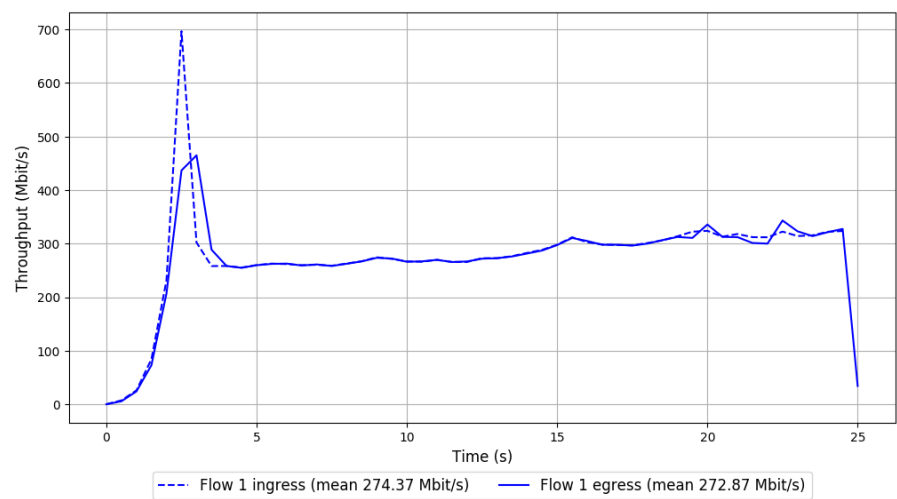
-- Flow 1:

Average throughput: 272.87 Mbit/s

95th percentile per-packet one-way delay: 106.549 ms

Loss rate: 0.56%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-25 19:12:02

End at: 2018-01-25 19:12:32

Below is generated by plot.py at 2018-01-25 21:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.47 Mbit/s

95th percentile per-packet one-way delay: 230.498 ms

Loss rate: 0.44%

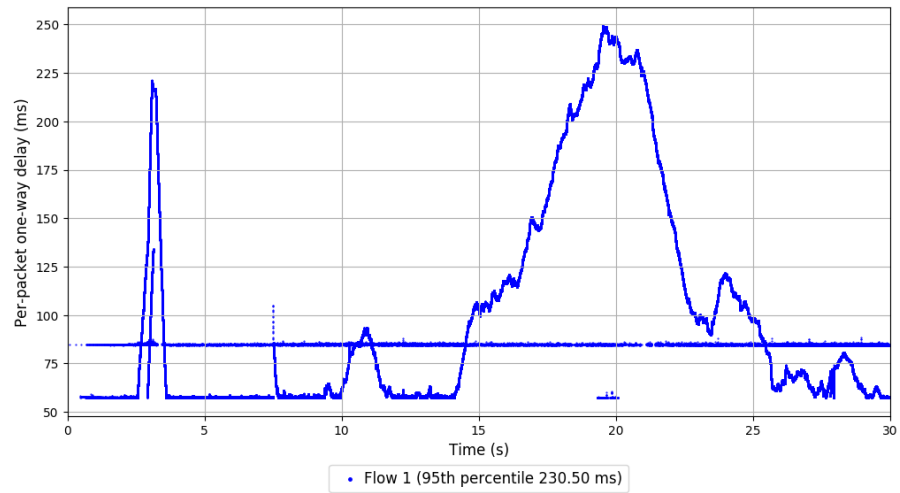
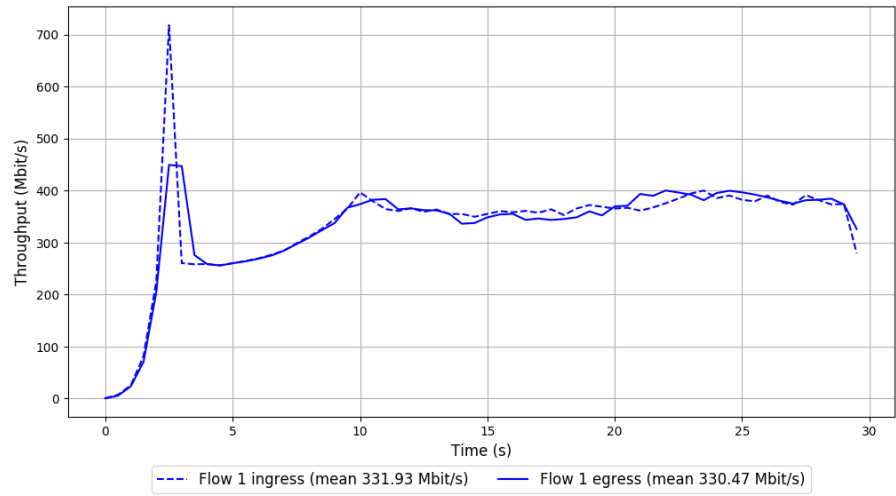
-- Flow 1:

Average throughput: 330.47 Mbit/s

95th percentile per-packet one-way delay: 230.498 ms

Loss rate: 0.44%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-25 19:24:43

End at: 2018-01-25 19:25:13

Below is generated by plot.py at 2018-01-25 21:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.44 Mbit/s

95th percentile per-packet one-way delay: 109.656 ms

Loss rate: 0.31%

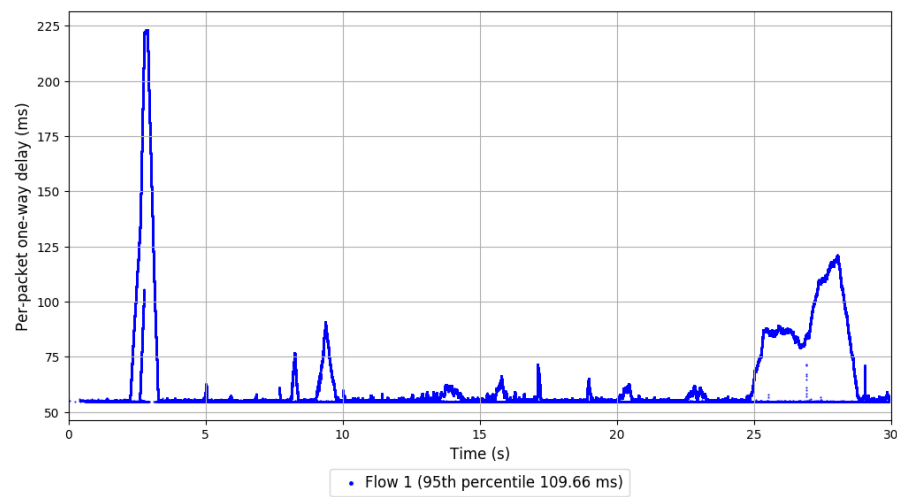
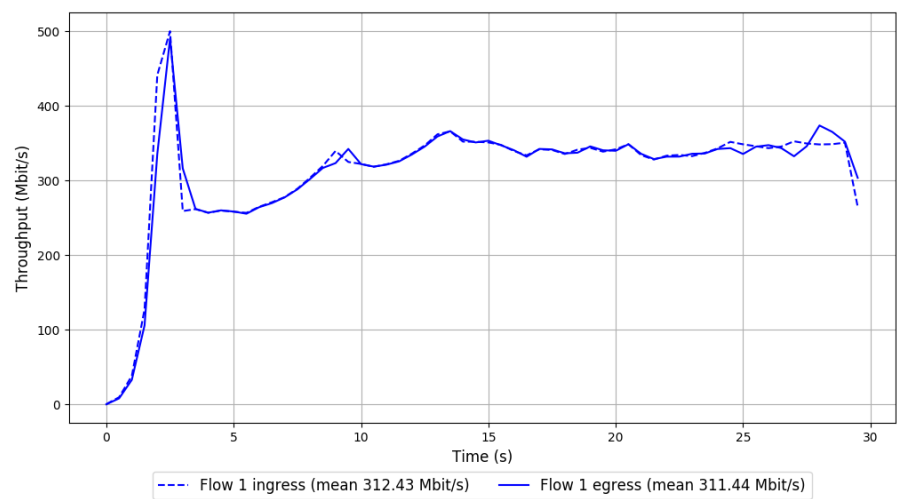
-- Flow 1:

Average throughput: 311.44 Mbit/s

95th percentile per-packet one-way delay: 109.656 ms

Loss rate: 0.31%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-25 19:37:34

End at: 2018-01-25 19:38:04

Below is generated by plot.py at 2018-01-25 21:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.02 Mbit/s

95th percentile per-packet one-way delay: 102.735 ms

Loss rate: 0.45%

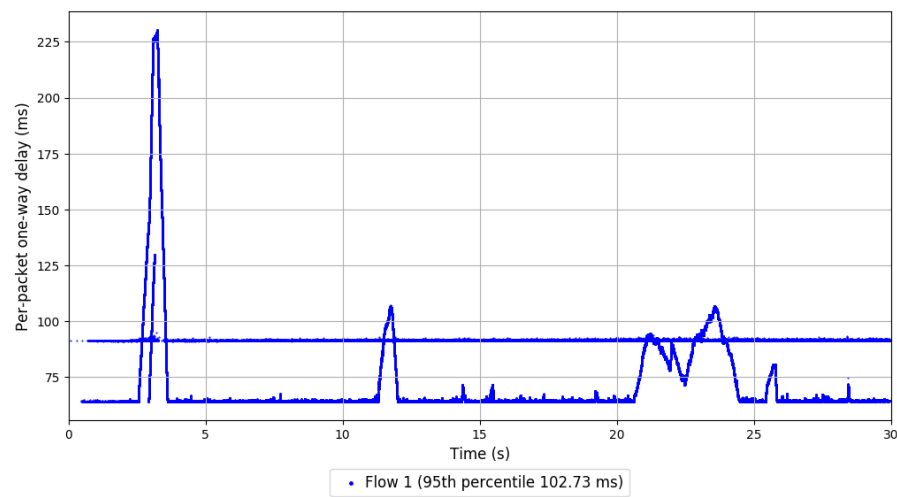
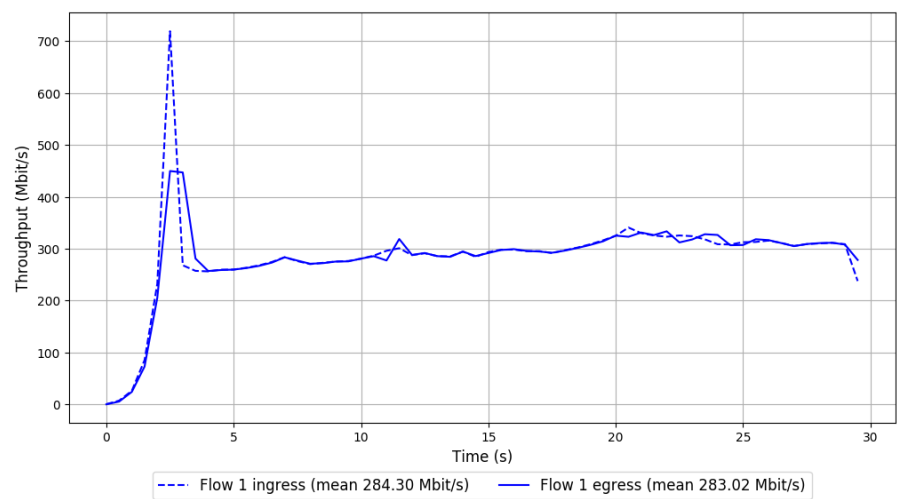
-- Flow 1:

Average throughput: 283.02 Mbit/s

95th percentile per-packet one-way delay: 102.735 ms

Loss rate: 0.45%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-25 19:50:14

End at: 2018-01-25 19:50:44

Below is generated by plot.py at 2018-01-25 21:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.82 Mbit/s

95th percentile per-packet one-way delay: 161.922 ms

Loss rate: 0.32%

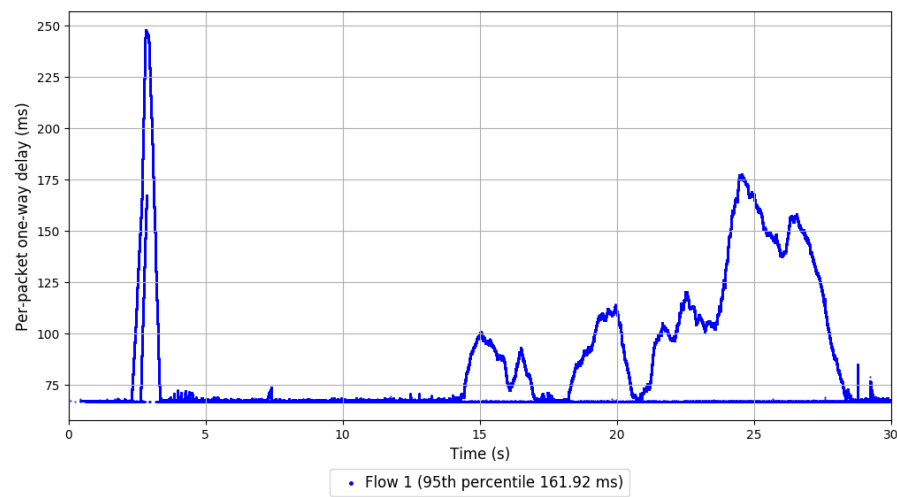
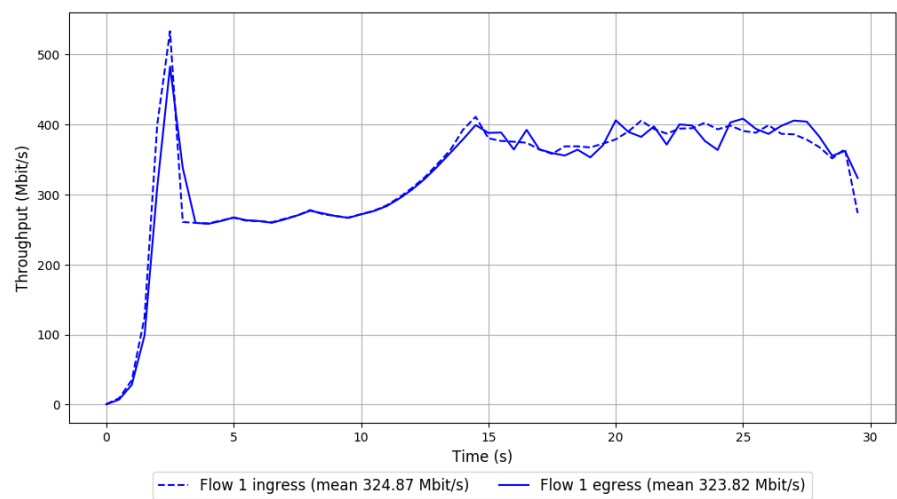
-- Flow 1:

Average throughput: 323.82 Mbit/s

95th percentile per-packet one-way delay: 161.922 ms

Loss rate: 0.32%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-25 20:03:00

End at: 2018-01-25 20:03:30

Below is generated by plot.py at 2018-01-25 21:32:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.47 Mbit/s

95th percentile per-packet one-way delay: 88.827 ms

Loss rate: 0.30%

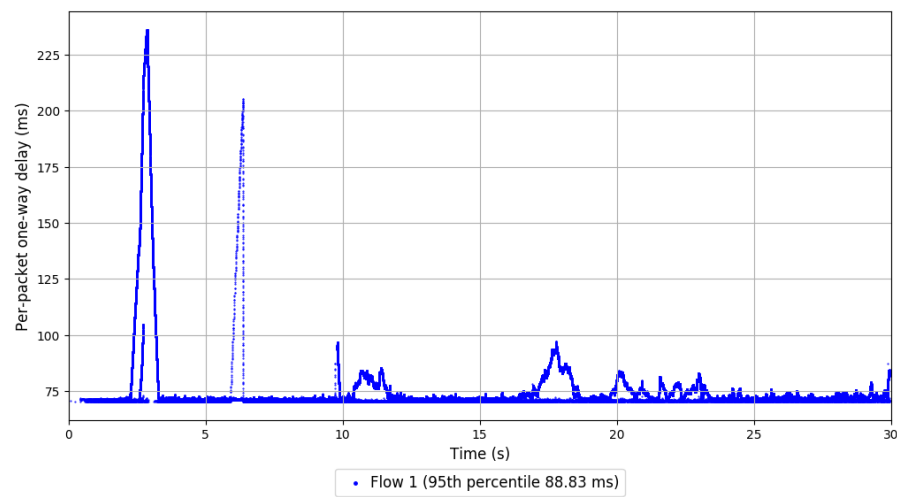
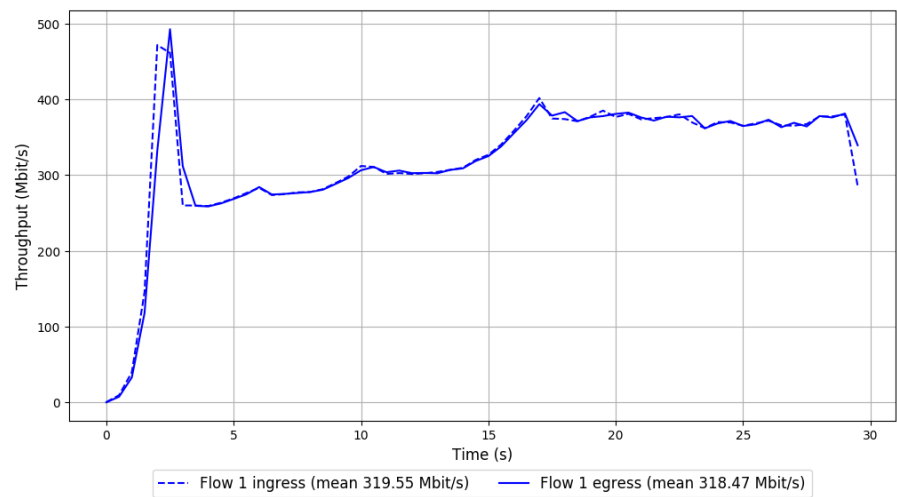
-- Flow 1:

Average throughput: 318.47 Mbit/s

95th percentile per-packet one-way delay: 88.827 ms

Loss rate: 0.30%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-25 20:15:54

End at: 2018-01-25 20:16:24

Below is generated by plot.py at 2018-01-25 21:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.99 Mbit/s

95th percentile per-packet one-way delay: 133.591 ms

Loss rate: 0.35%

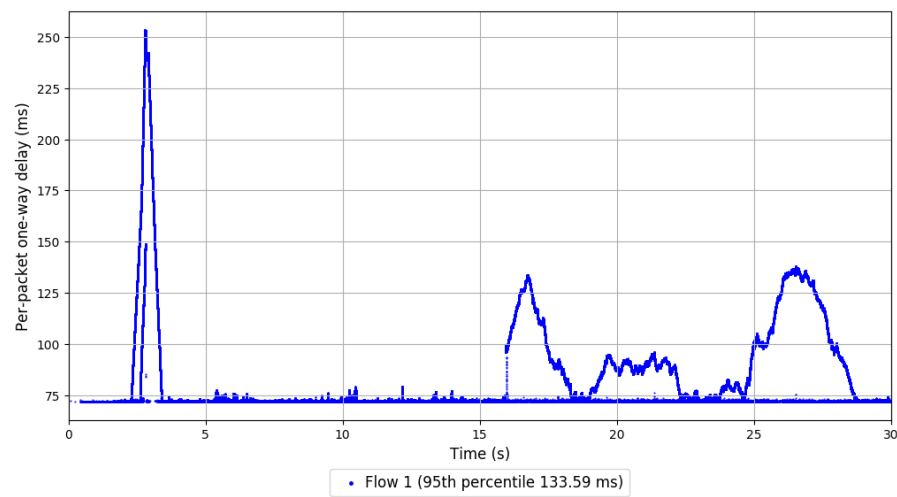
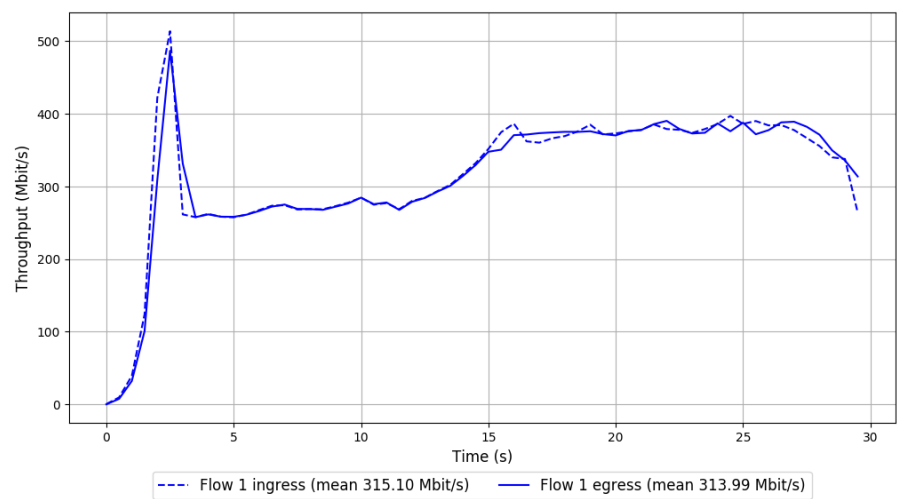
-- Flow 1:

Average throughput: 313.99 Mbit/s

95th percentile per-packet one-way delay: 133.591 ms

Loss rate: 0.35%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-25 20:28:34

End at: 2018-01-25 20:29:04

Below is generated by plot.py at 2018-01-25 21:36:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.32 Mbit/s

95th percentile per-packet one-way delay: 154.820 ms

Loss rate: 0.35%

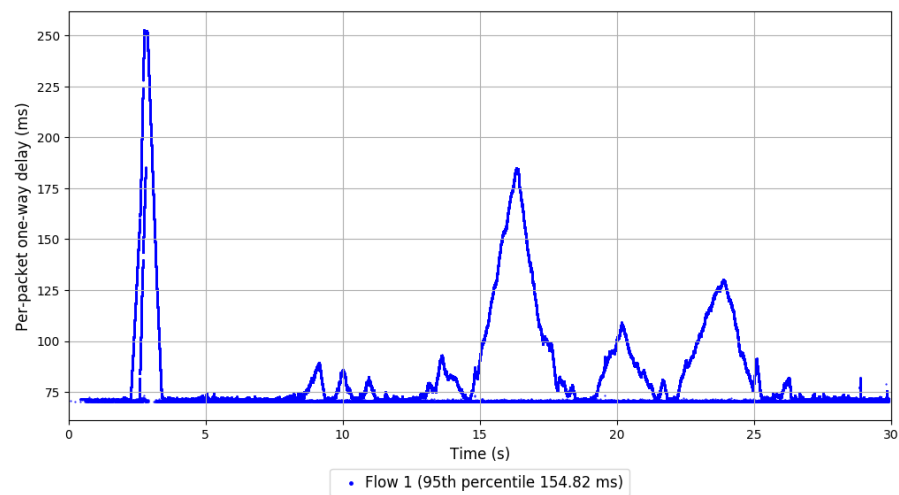
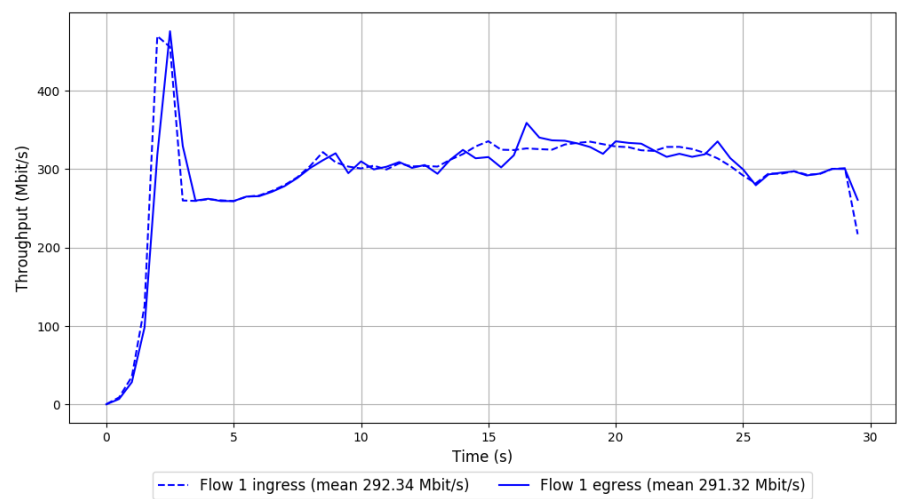
-- Flow 1:

Average throughput: 291.32 Mbit/s

95th percentile per-packet one-way delay: 154.820 ms

Loss rate: 0.35%

Run 10: Report of PCC — Data Link

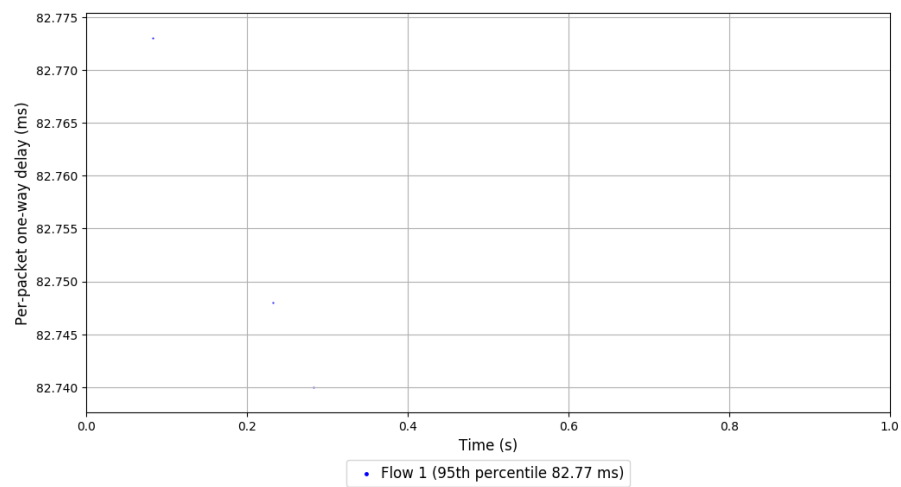
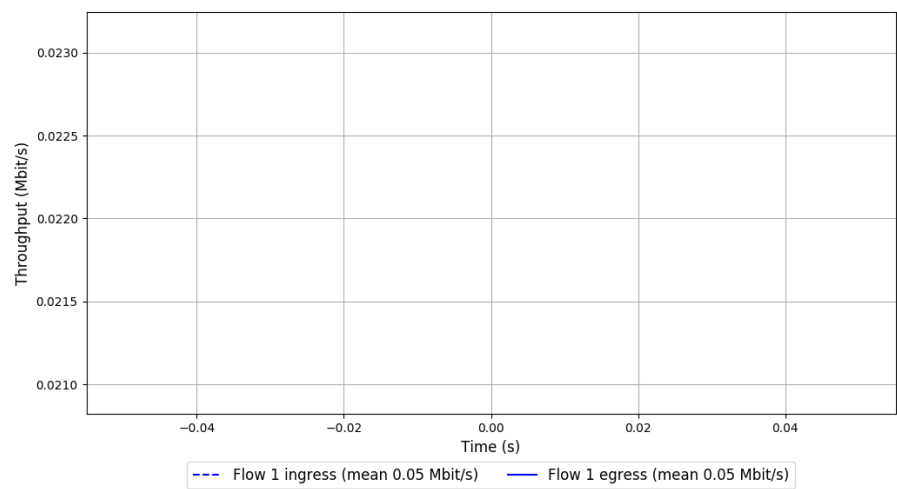


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-25 18:33:46

End at: 2018-01-25 18:34:16

Run 1: Report of QUIC Cubic — Data Link

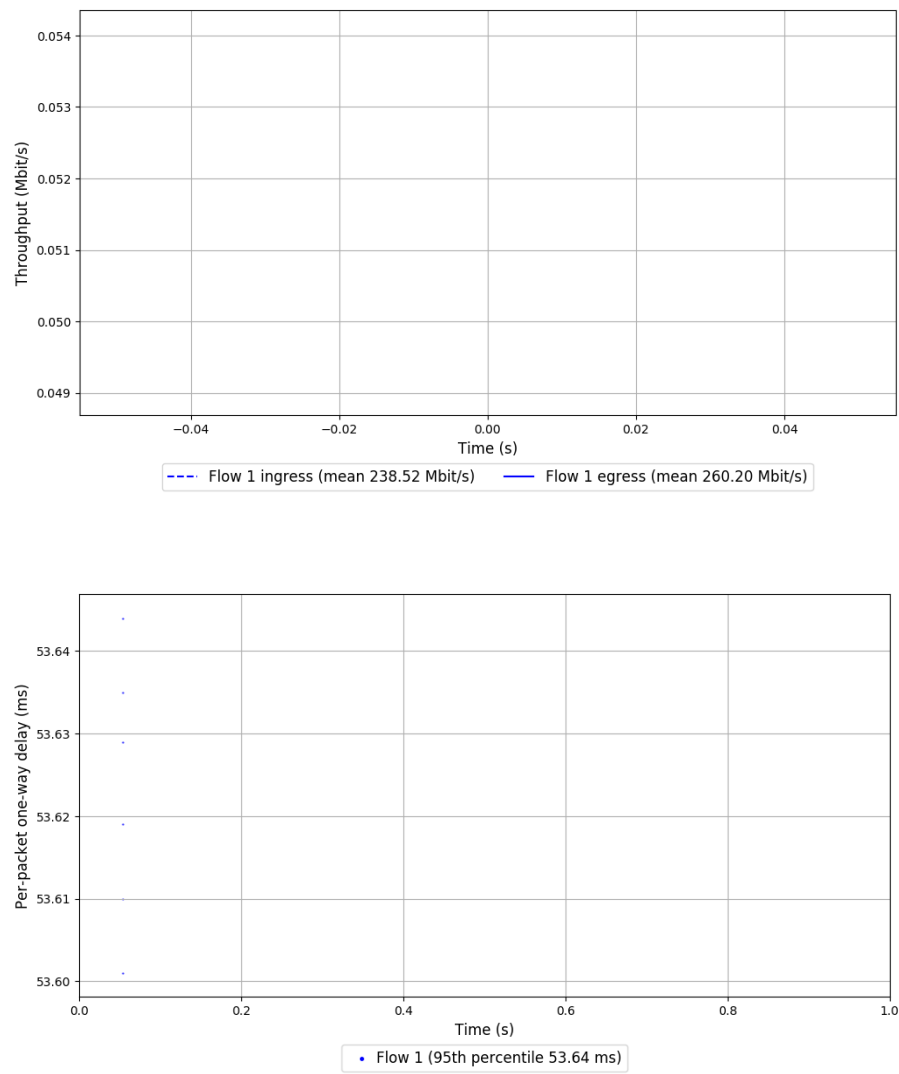


Run 2: Statistics of QUIC Cubic

Start at: 2018-01-25 18:46:30

End at: 2018-01-25 18:47:01

Run 2: Report of QUIC Cubic — Data Link

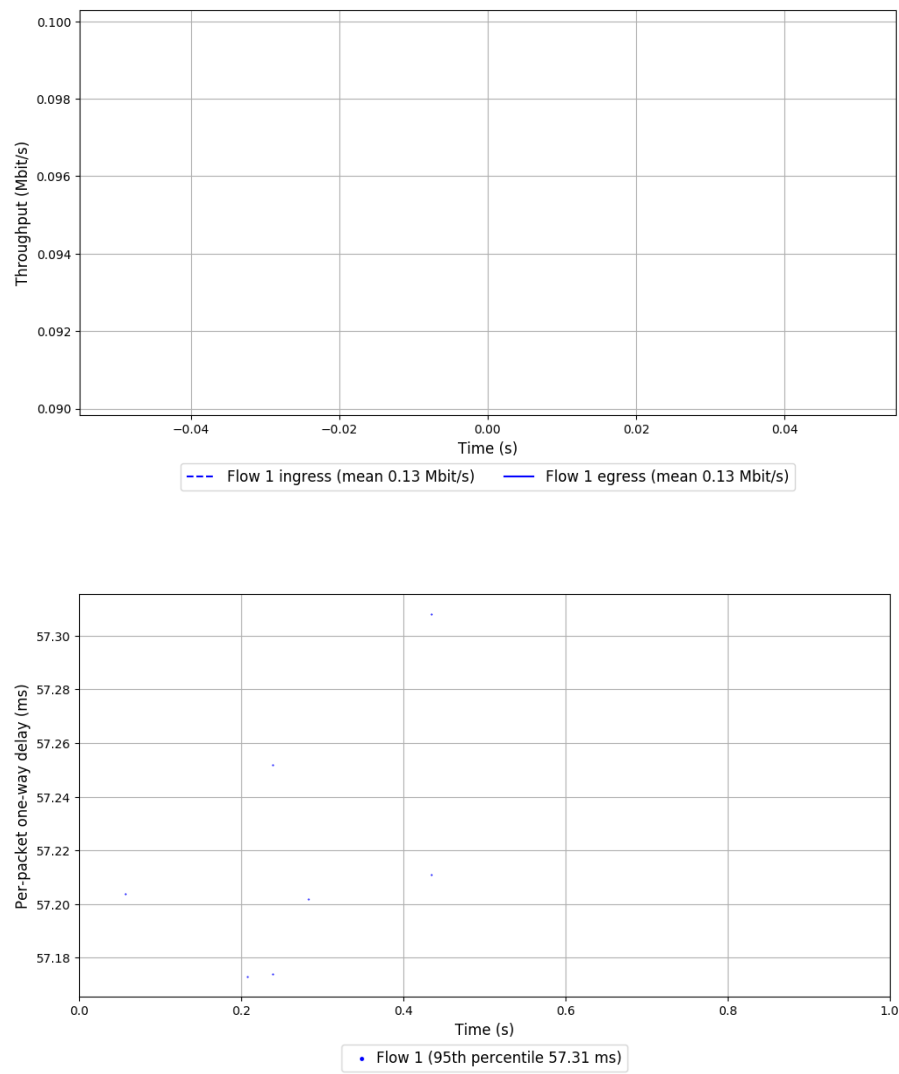


Run 3: Statistics of QUIC Cubic

Start at: 2018-01-25 18:58:50

End at: 2018-01-25 18:59:20

Run 3: Report of QUIC Cubic — Data Link

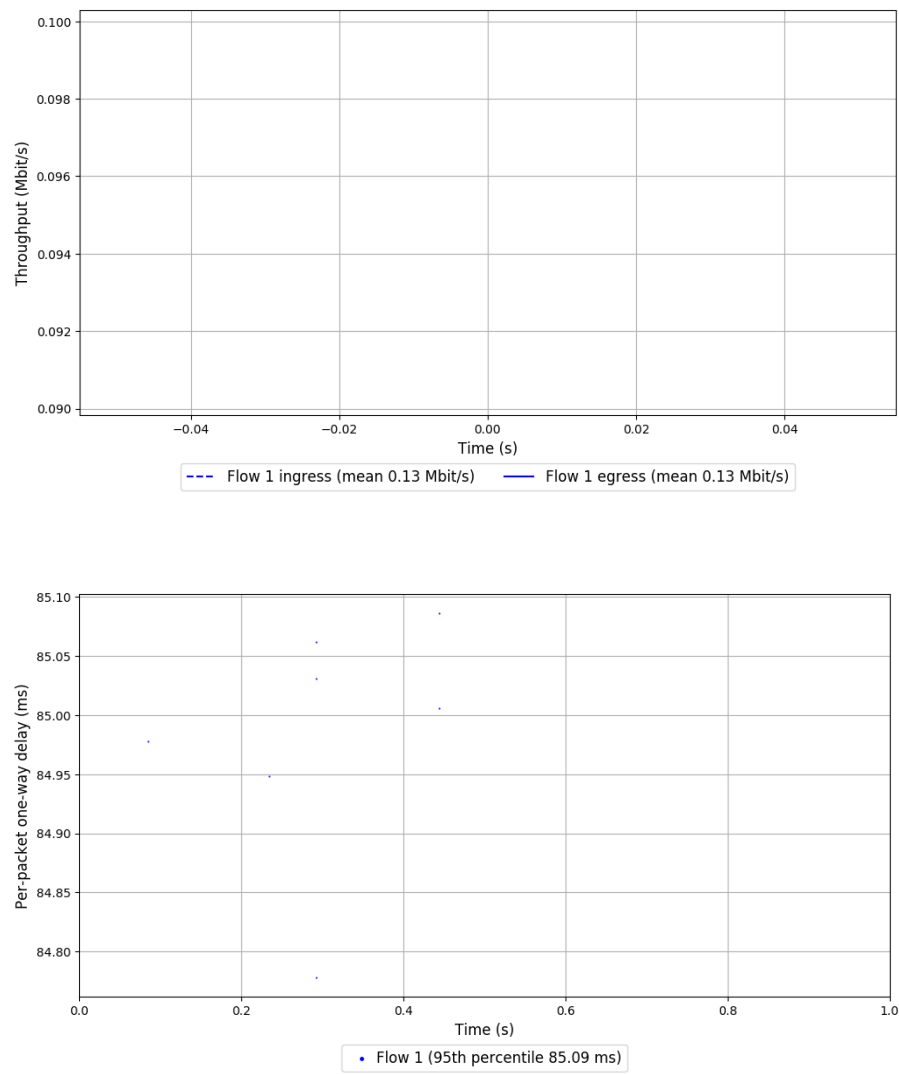


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-25 19:11:23

End at: 2018-01-25 19:11:53

Run 4: Report of QUIC Cubic — Data Link

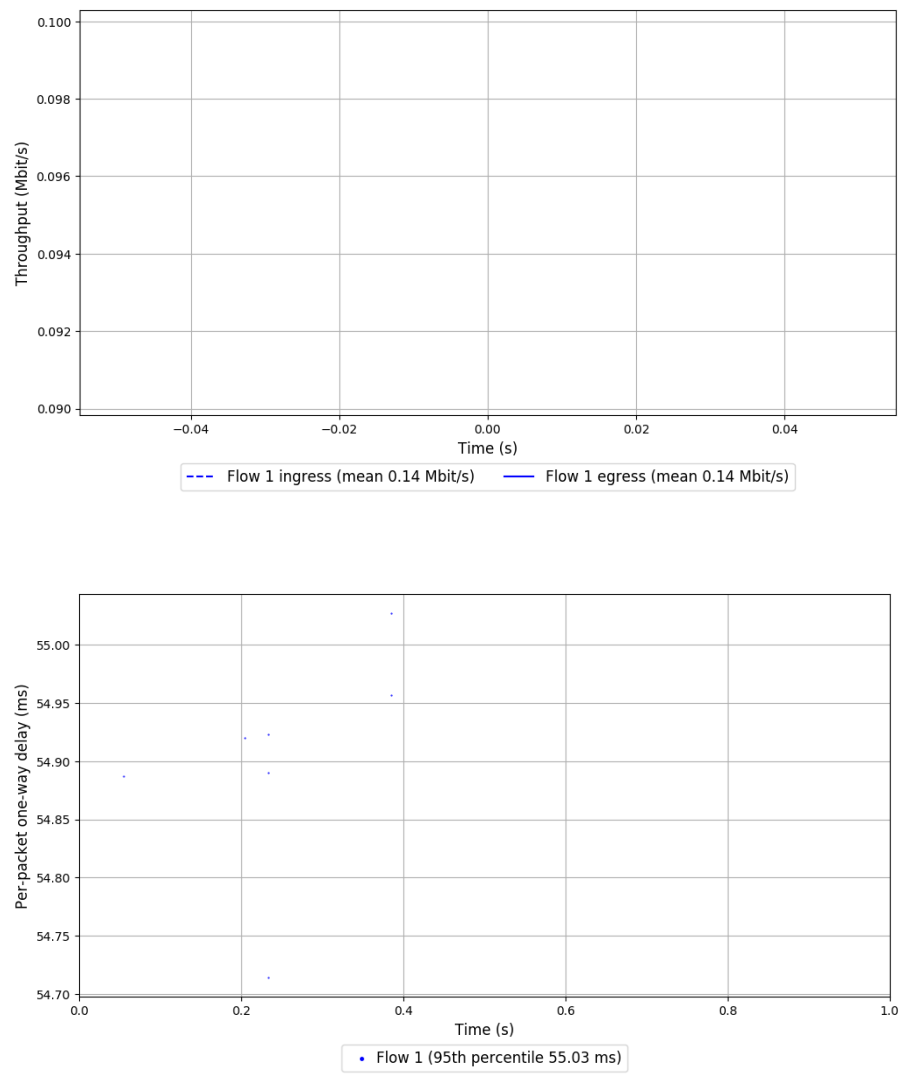


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-25 19:24:03

End at: 2018-01-25 19:24:33

Run 5: Report of QUIC Cubic — Data Link

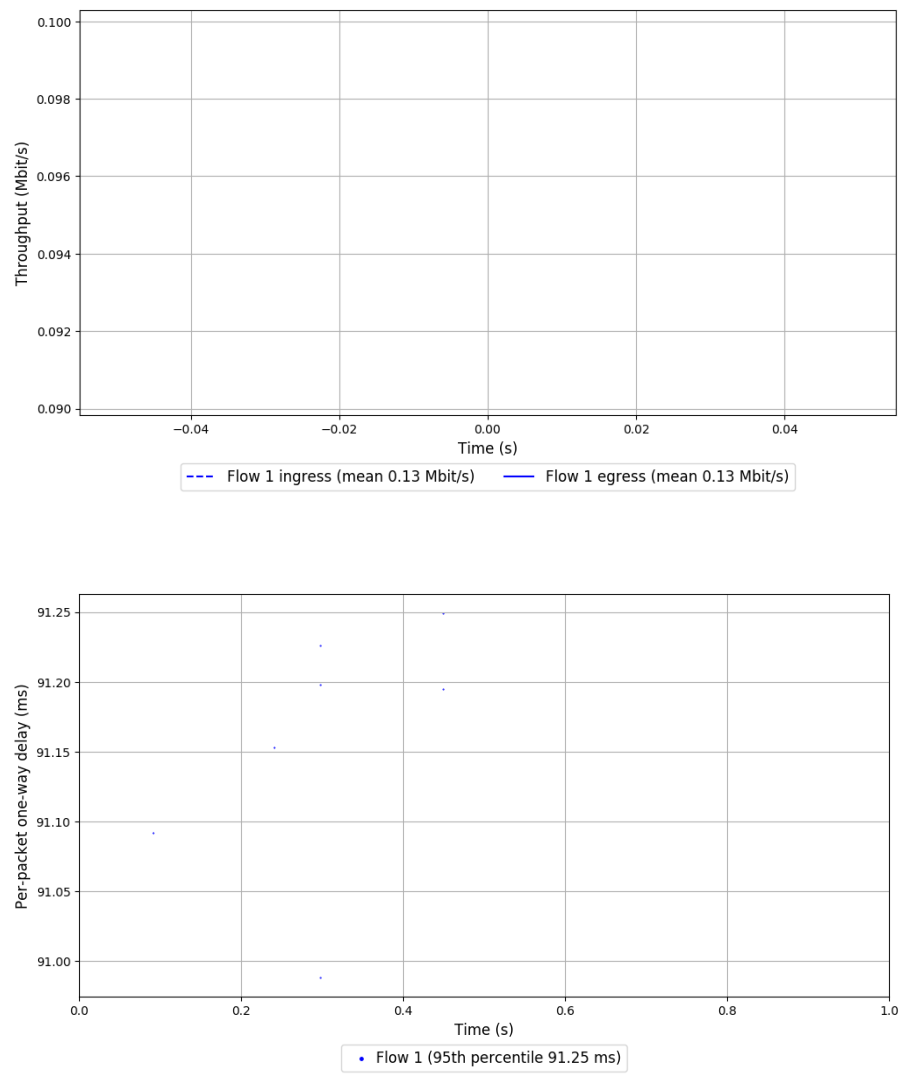


Run 6: Statistics of QUIC Cubic

Start at: 2018-01-25 19:36:54

End at: 2018-01-25 19:37:24

Run 6: Report of QUIC Cubic — Data Link

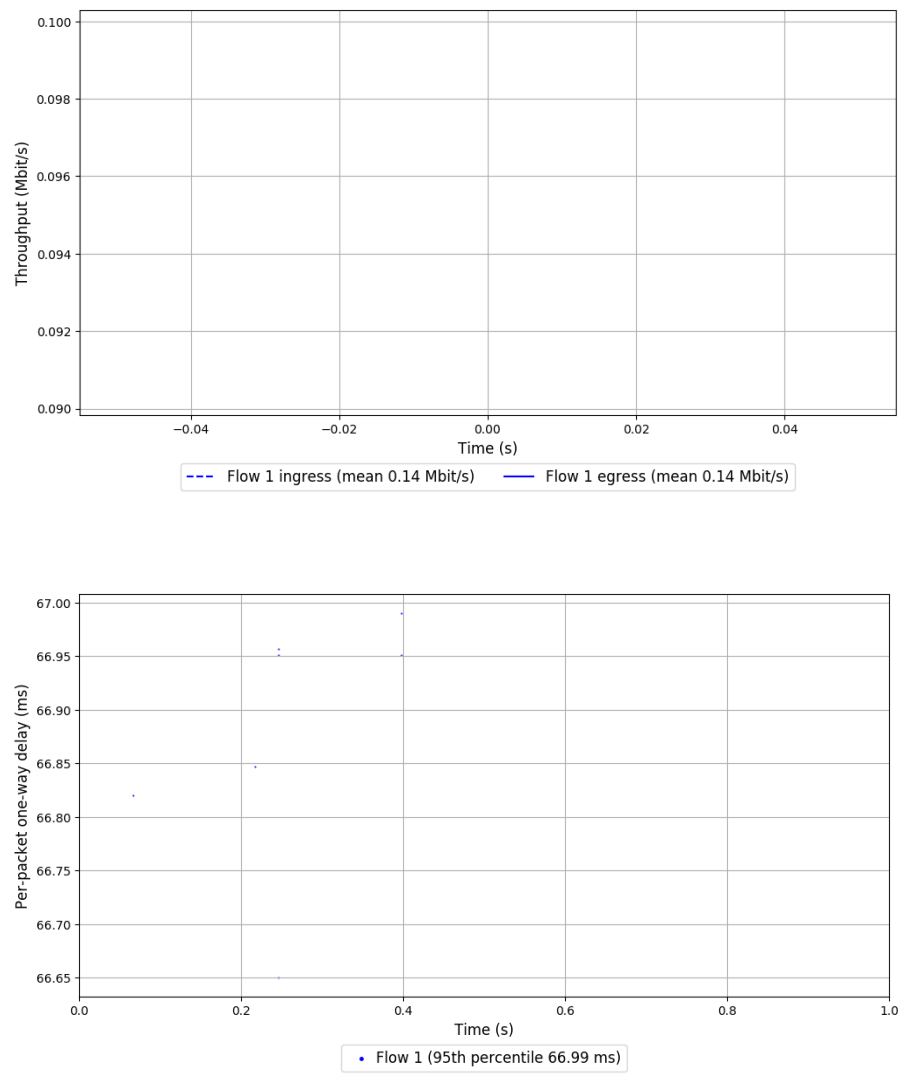


Run 7: Statistics of QUIC Cubic

Start at: 2018-01-25 19:49:35

End at: 2018-01-25 19:50:05

Run 7: Report of QUIC Cubic — Data Link

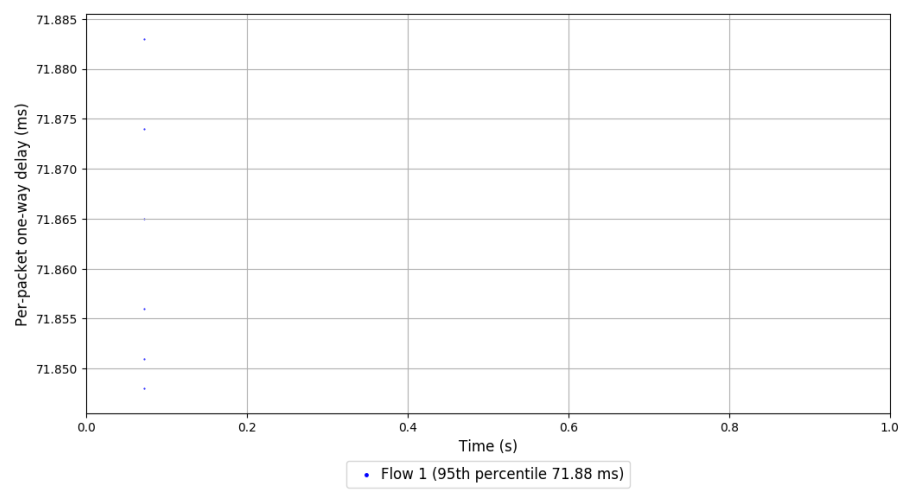
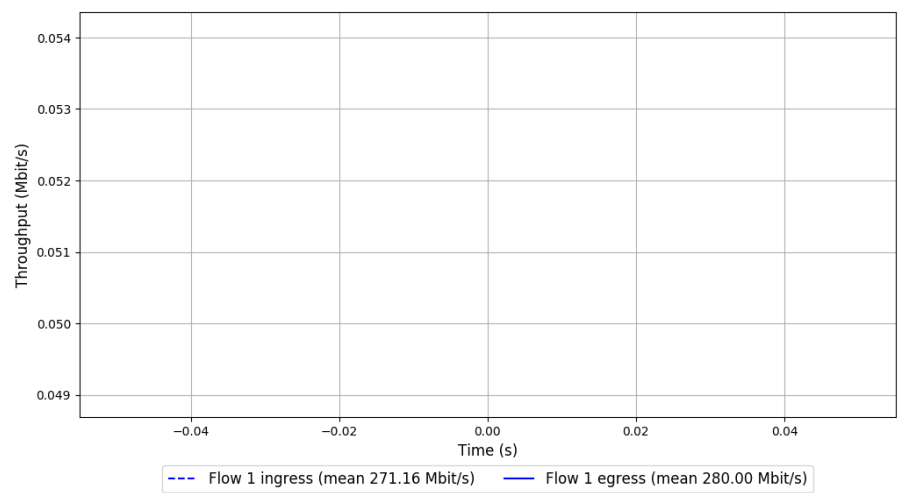


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-25 20:02:20

End at: 2018-01-25 20:02:50

Run 8: Report of QUIC Cubic — Data Link

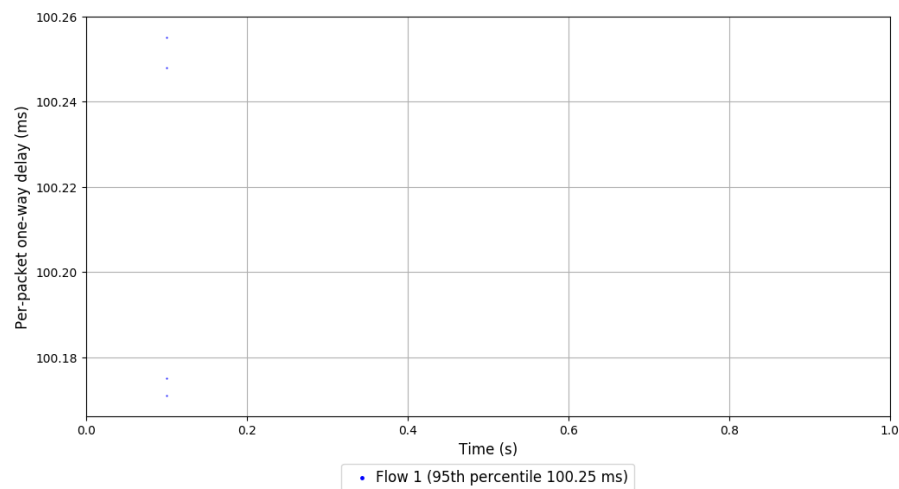
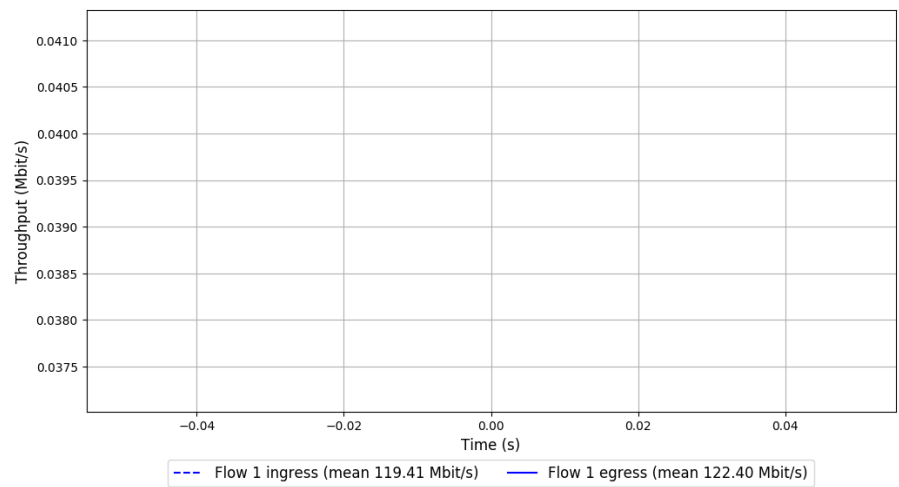


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-25 20:15:15

End at: 2018-01-25 20:15:45

Run 9: Report of QUIC Cubic — Data Link

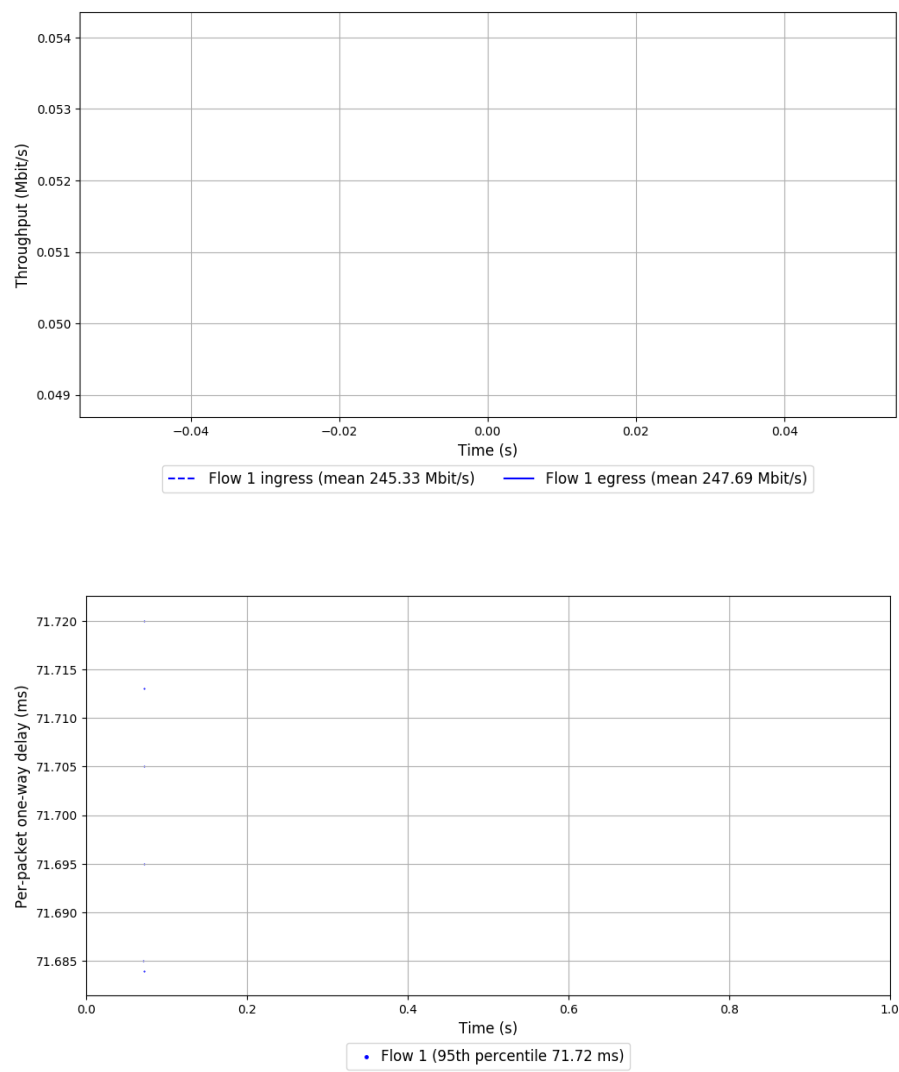


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-25 20:27:55

End at: 2018-01-25 20:28:26

Run 10: Report of QUIC Cubic — Data Link

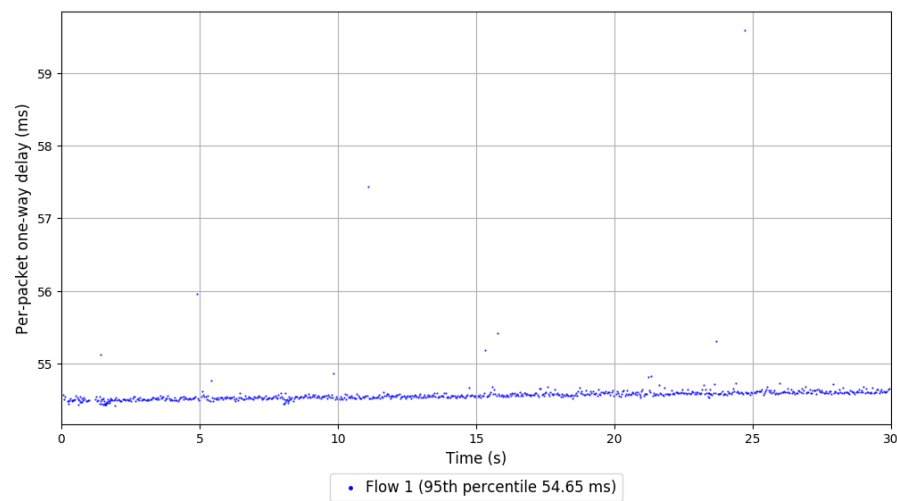
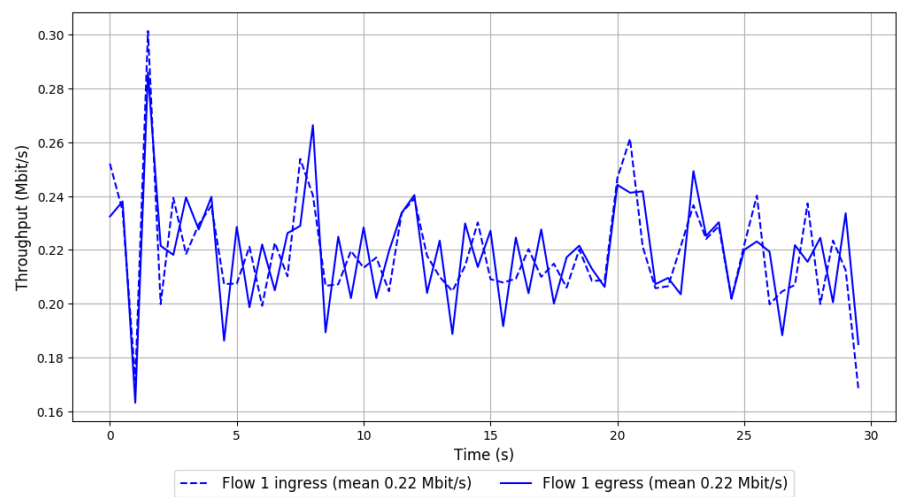


```
Run 1: Statistics of SCReAM

Start at: 2018-01-25 18:30:45
End at: 2018-01-25 18:31:15

# Below is generated by plot.py at 2018-01-25 21:36:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.648 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.648 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

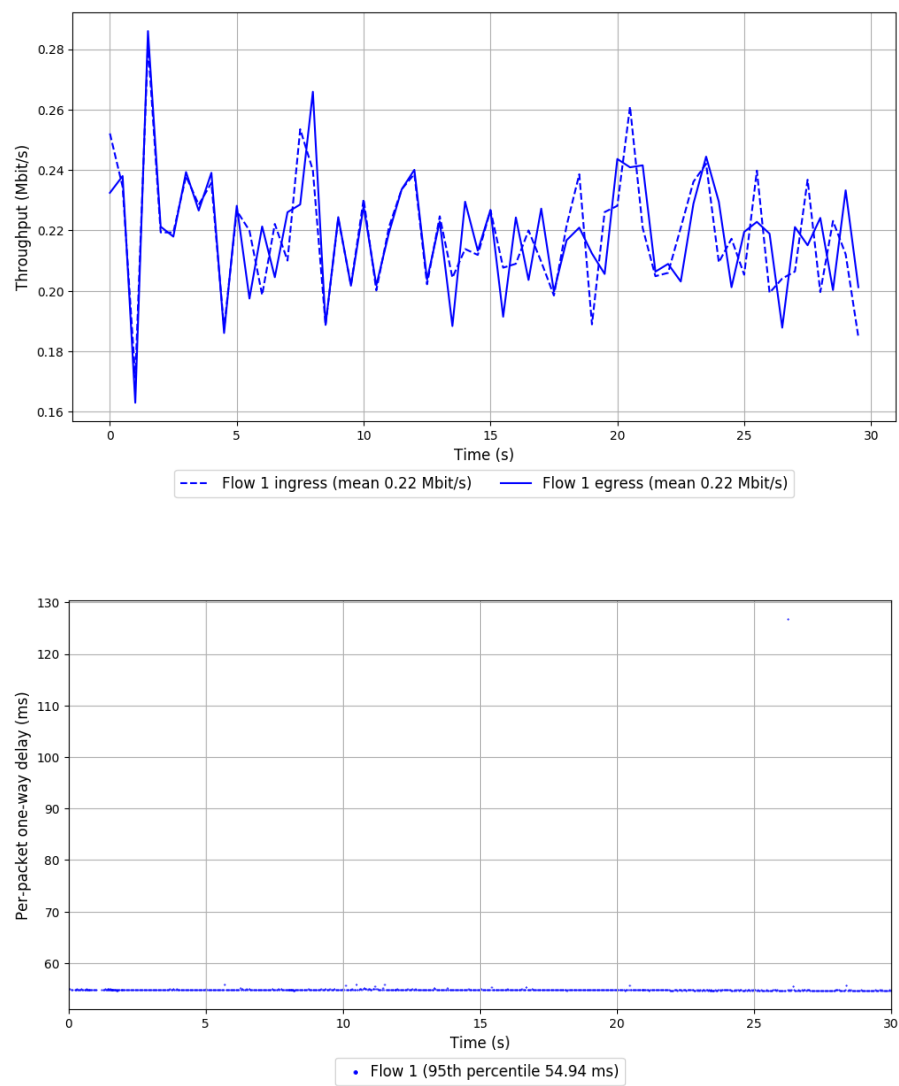


```
Run 2: Statistics of SCReAM

Start at: 2018-01-25 18:43:15
End at: 2018-01-25 18:43:45

# Below is generated by plot.py at 2018-01-25 21:36:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.941 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 54.941 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-25 18:55:54

End at: 2018-01-25 18:56:24

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.559 ms

Loss rate: 0.00%

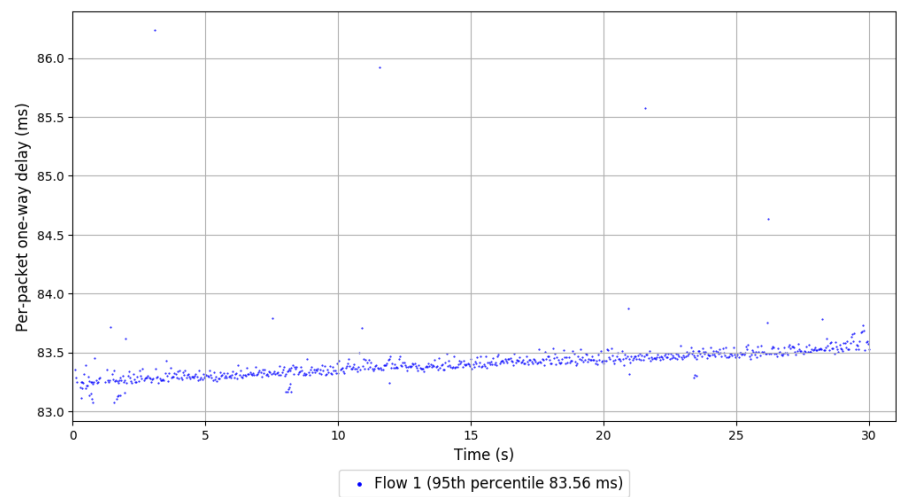
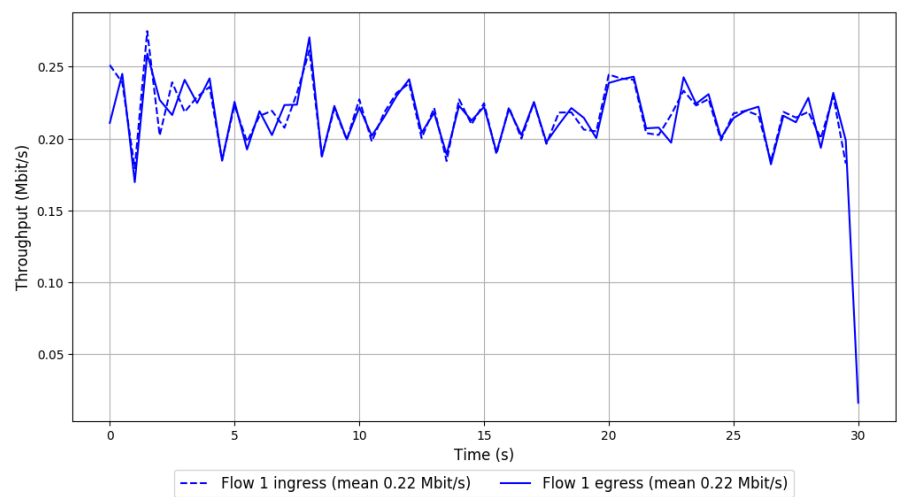
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.559 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-25 19:08:26

End at: 2018-01-25 19:08:56

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 58.139 ms

Loss rate: 0.00%

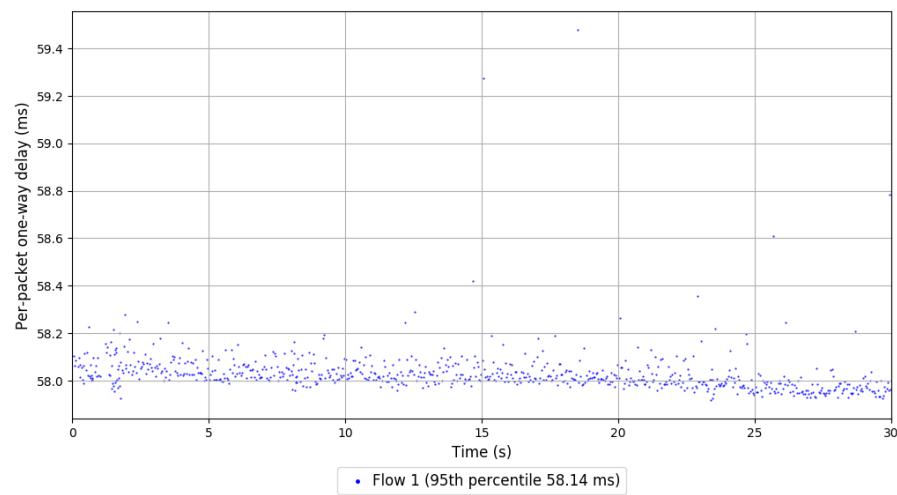
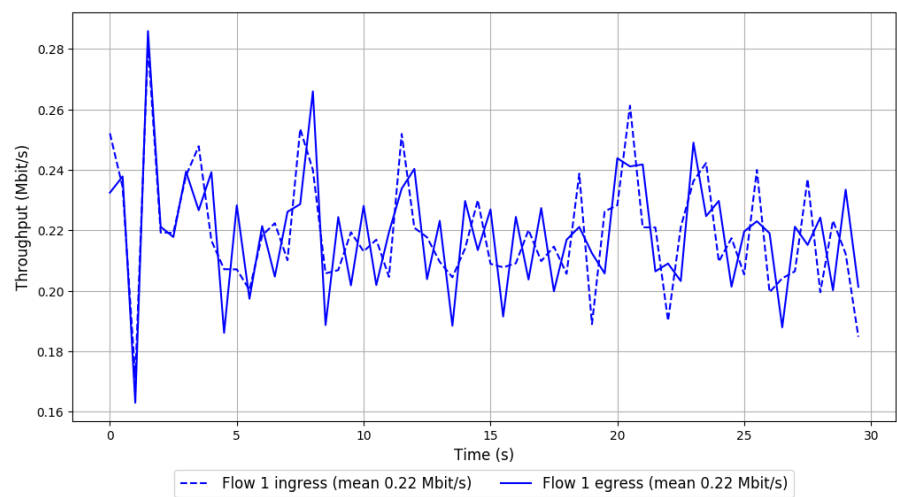
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 58.139 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-25 19:20:48

End at: 2018-01-25 19:21:18

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 55.627 ms

Loss rate: 0.00%

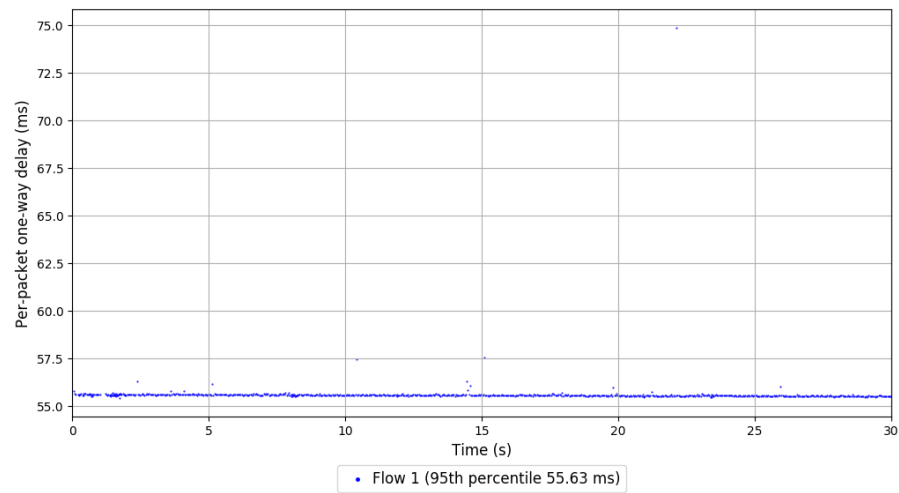
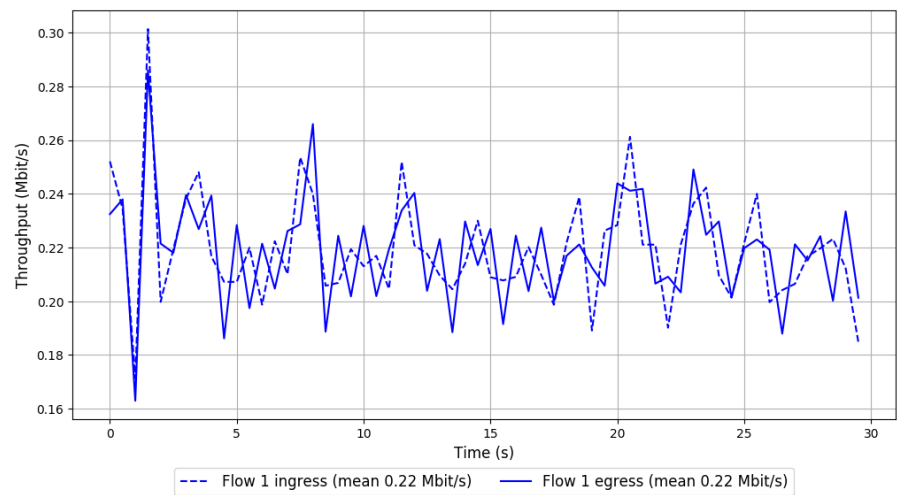
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 55.627 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-25 19:33:38

End at: 2018-01-25 19:34:08

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 89.397 ms

Loss rate: 0.00%

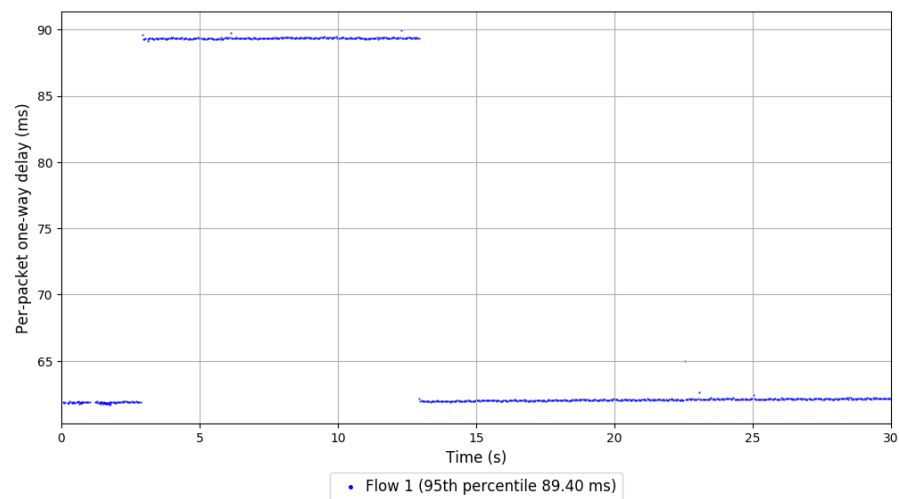
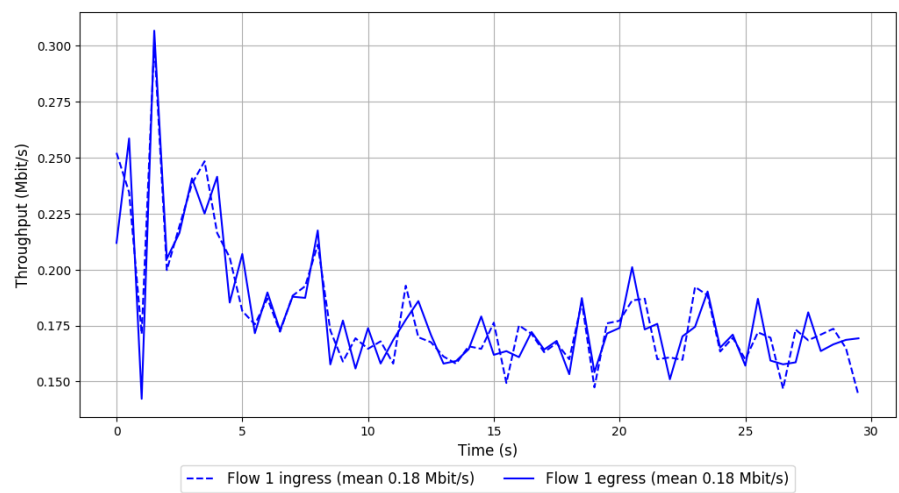
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 89.397 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-25 19:46:30

End at: 2018-01-25 19:47:00

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.136 ms

Loss rate: 0.00%

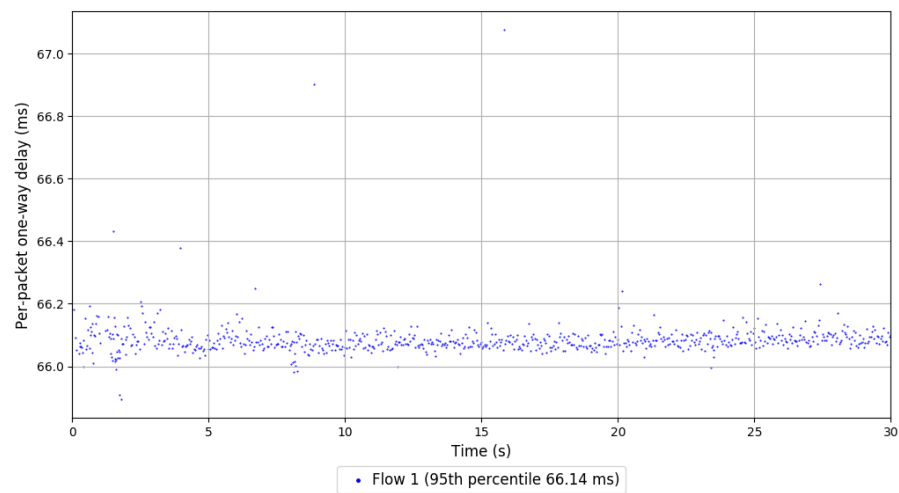
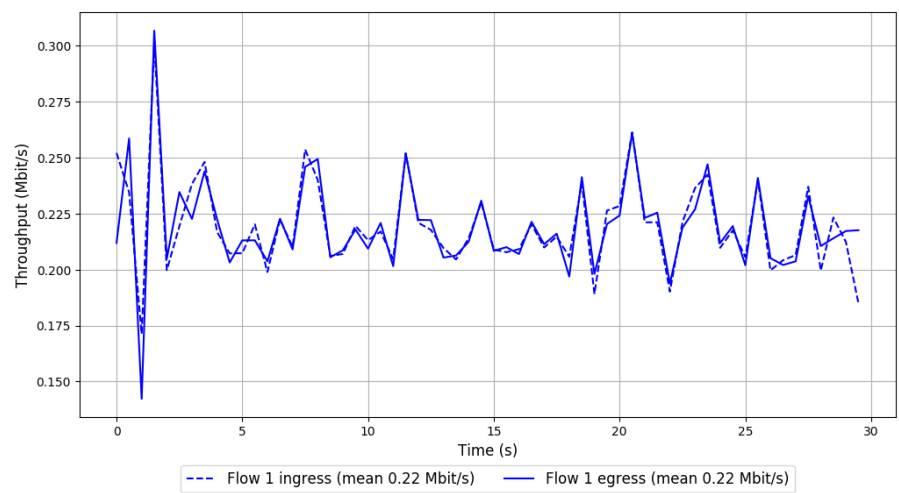
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.136 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-25 19:59:02

End at: 2018-01-25 19:59:32

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.474 ms

Loss rate: 0.00%

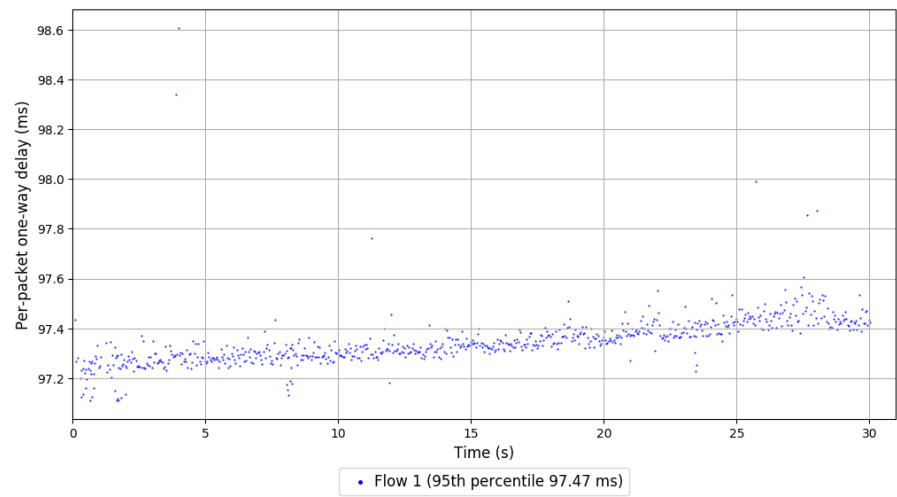
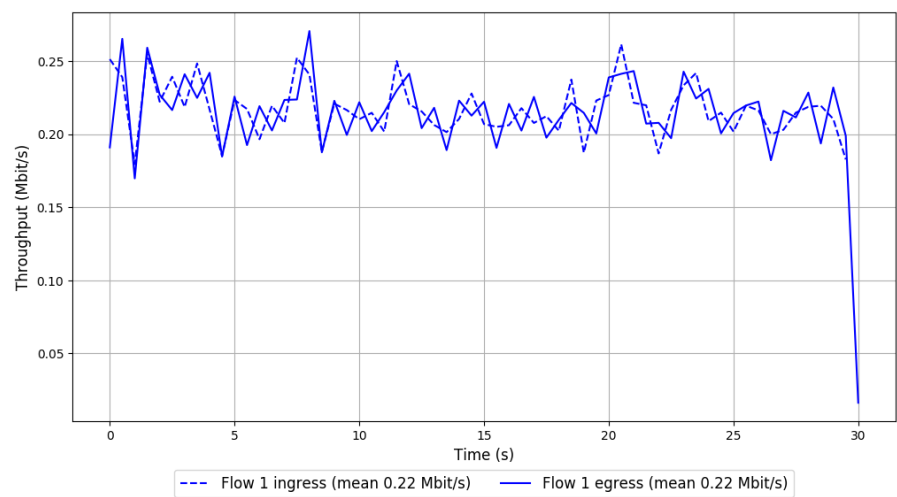
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.474 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-25 20:11:58

End at: 2018-01-25 20:12:28

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.365 ms

Loss rate: 0.00%

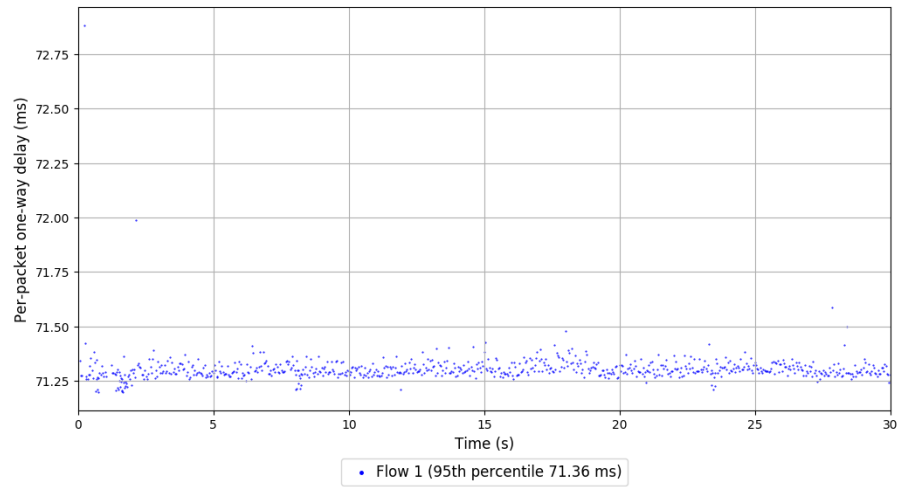
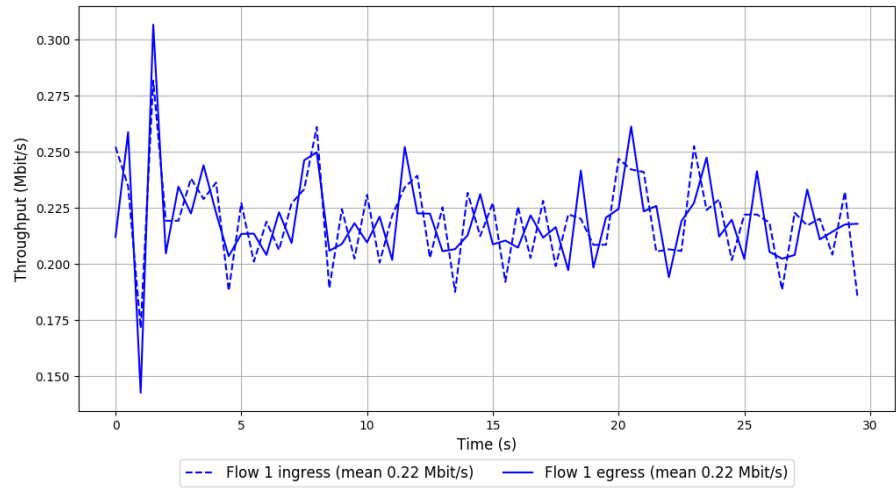
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.365 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-25 20:24:43

End at: 2018-01-25 20:25:13

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.213 ms

Loss rate: 0.00%

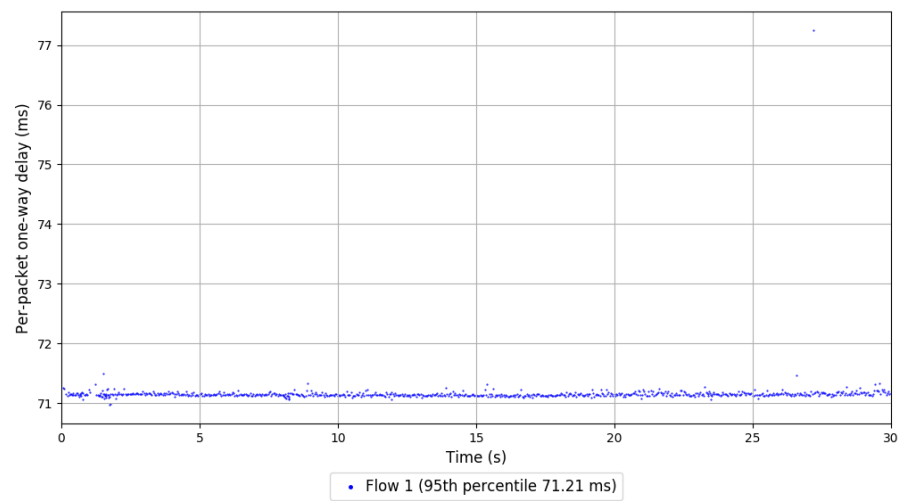
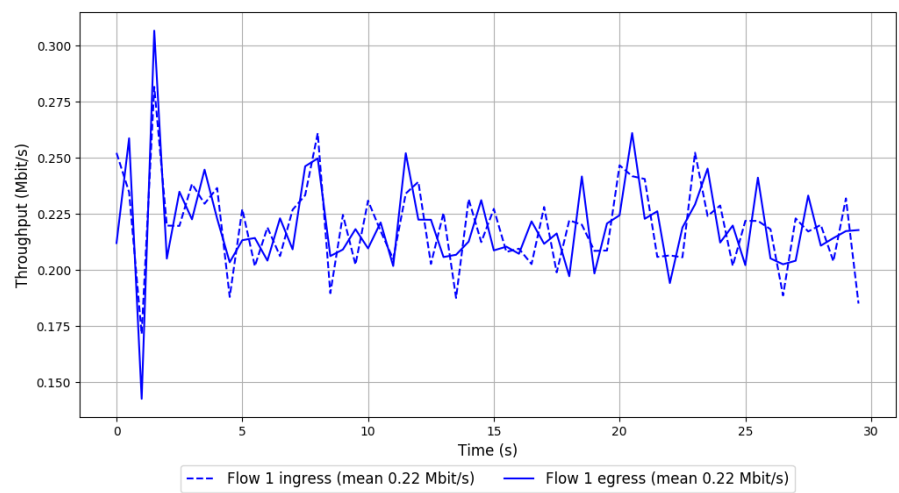
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 71.213 ms

Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

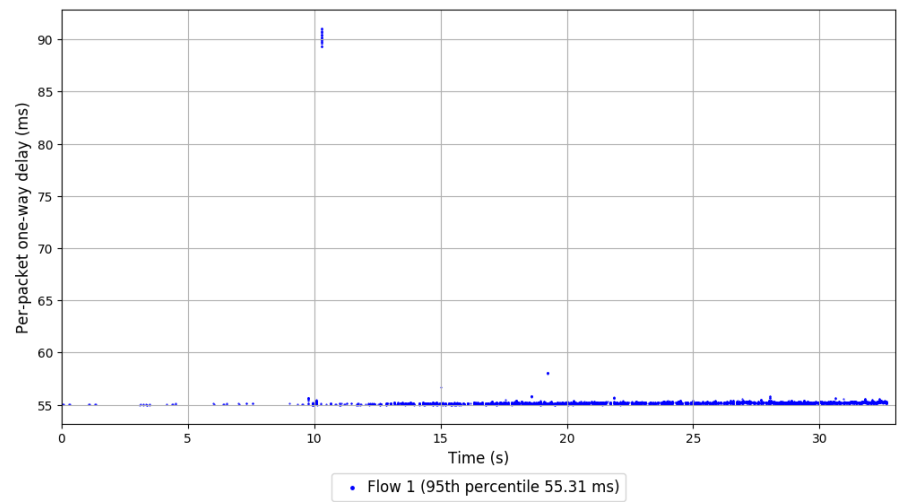
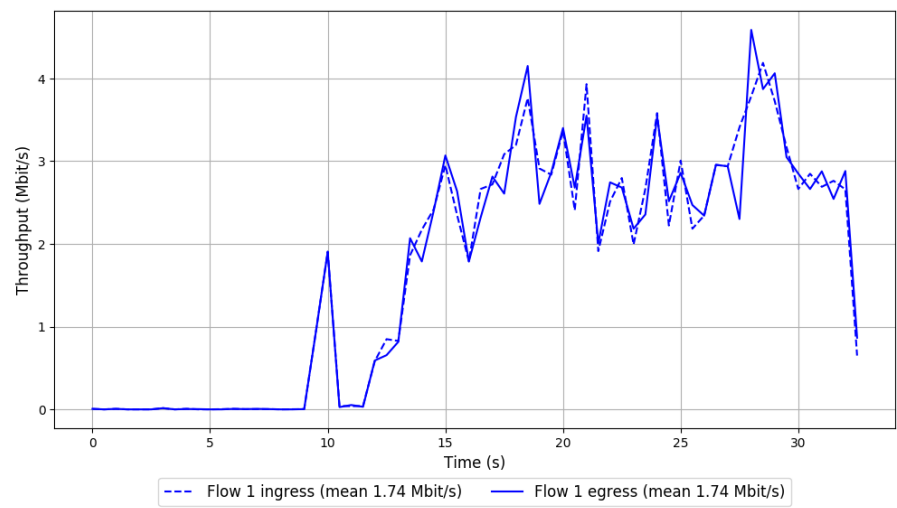


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-25 18:37:46
End at: 2018-01-25 18:38:16

# Below is generated by plot.py at 2018-01-25 21:36:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 55.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.74 Mbit/s
95th percentile per-packet one-way delay: 55.310 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

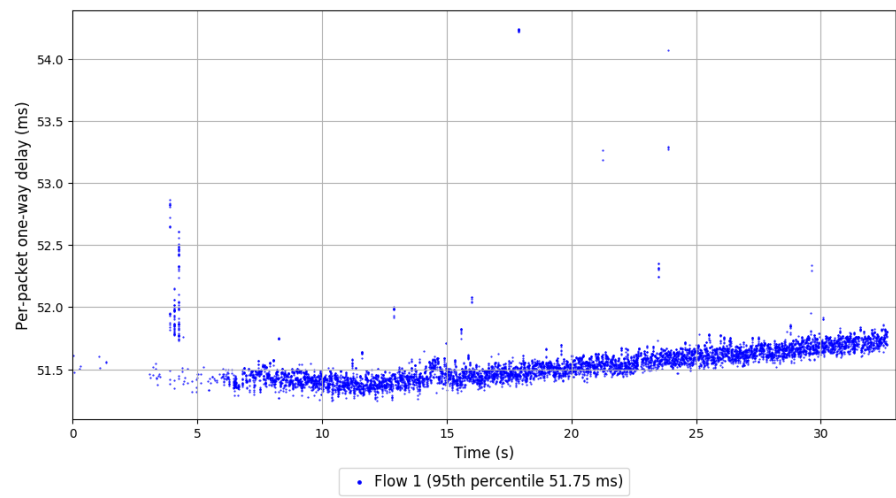
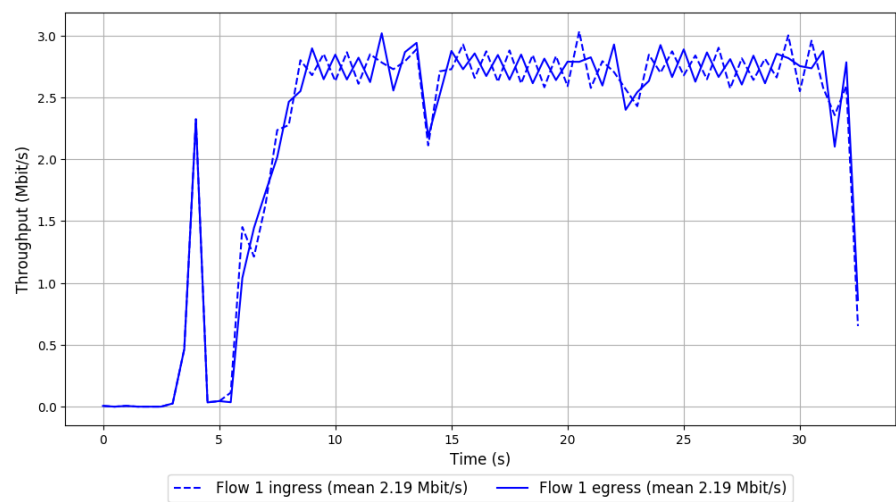


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-25 18:50:30
End at: 2018-01-25 18:51:00

# Below is generated by plot.py at 2018-01-25 21:36:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 51.753 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 51.753 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-25 19:02:50

End at: 2018-01-25 19:03:20

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 58.773 ms

Loss rate: 0.00%

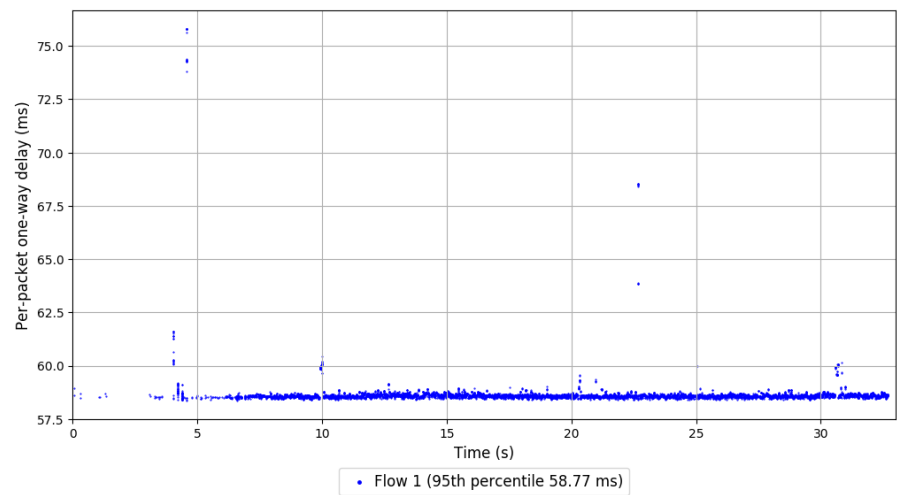
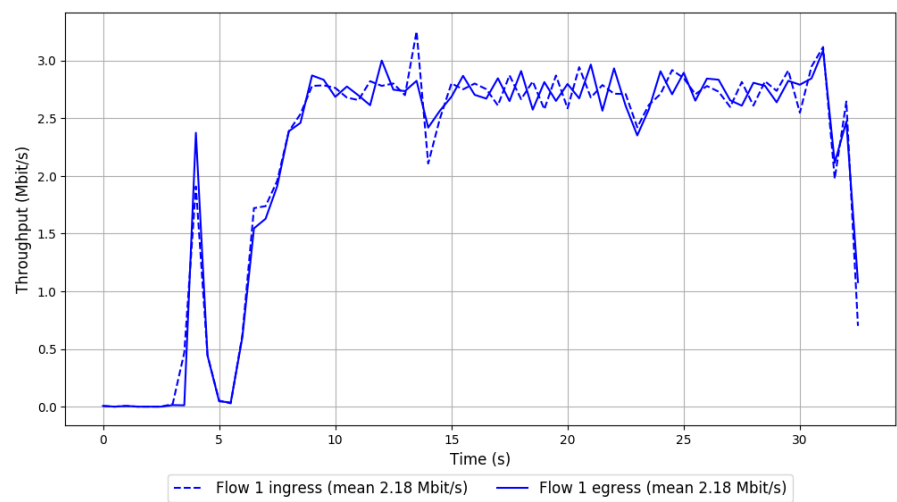
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 58.773 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-25 19:15:26

End at: 2018-01-25 19:15:56

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 56.869 ms

Loss rate: 0.00%

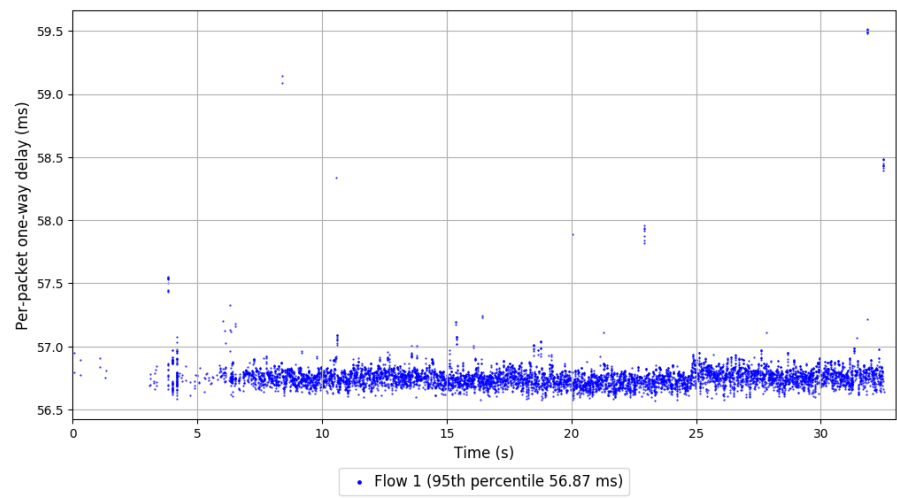
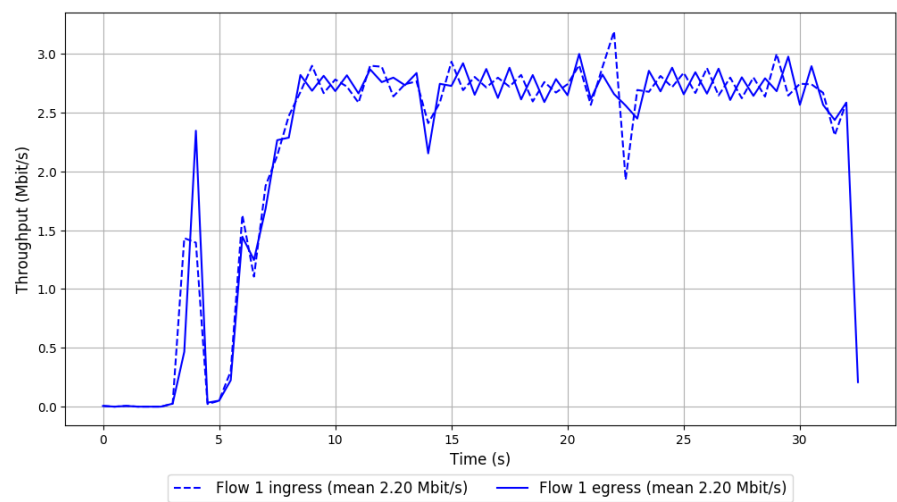
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 56.869 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-25 19:28:07

End at: 2018-01-25 19:28:37

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 57.486 ms

Loss rate: 0.00%

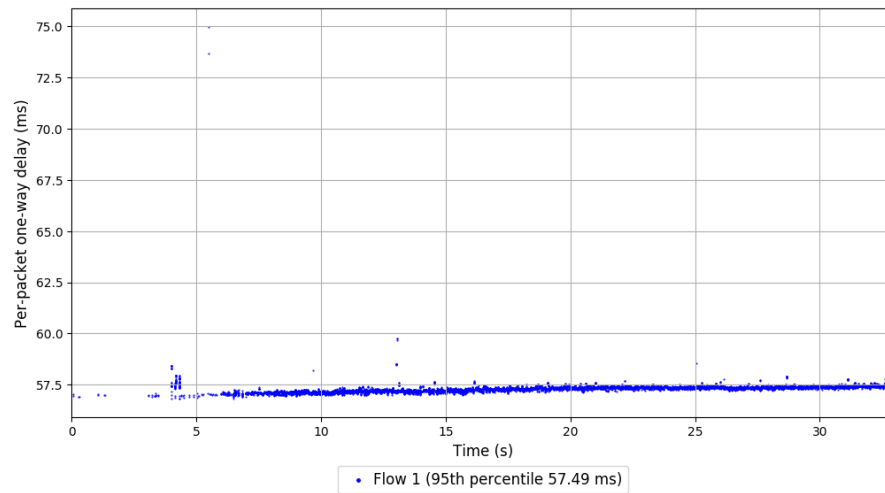
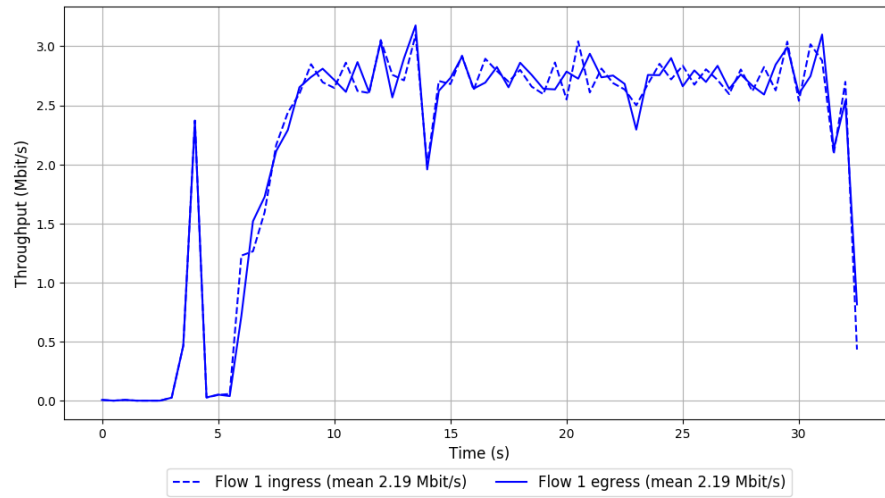
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 57.486 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-25 19:40:57

End at: 2018-01-25 19:41:27

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 65.758 ms

Loss rate: 0.00%

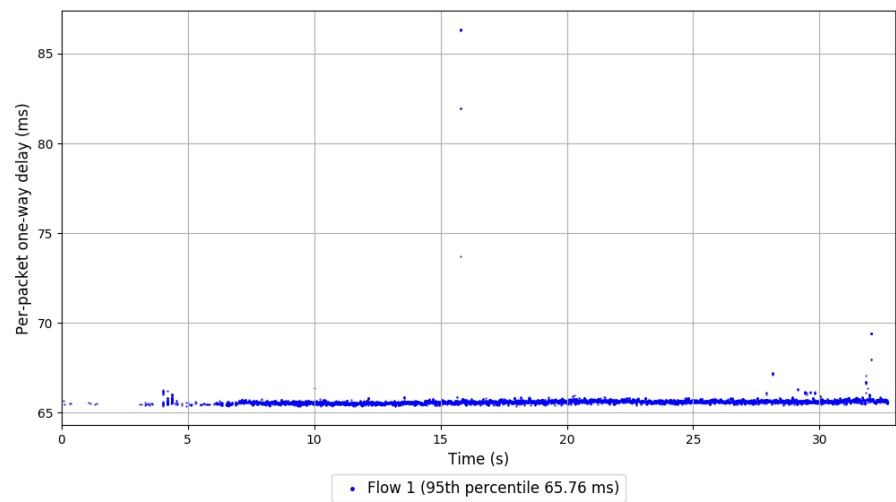
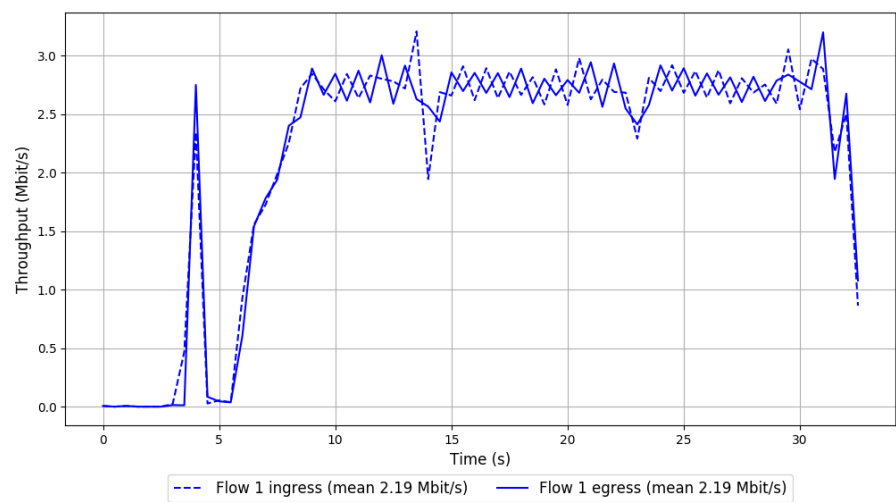
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 65.758 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-25 19:53:36

End at: 2018-01-25 19:54:06

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 67.736 ms

Loss rate: 0.00%

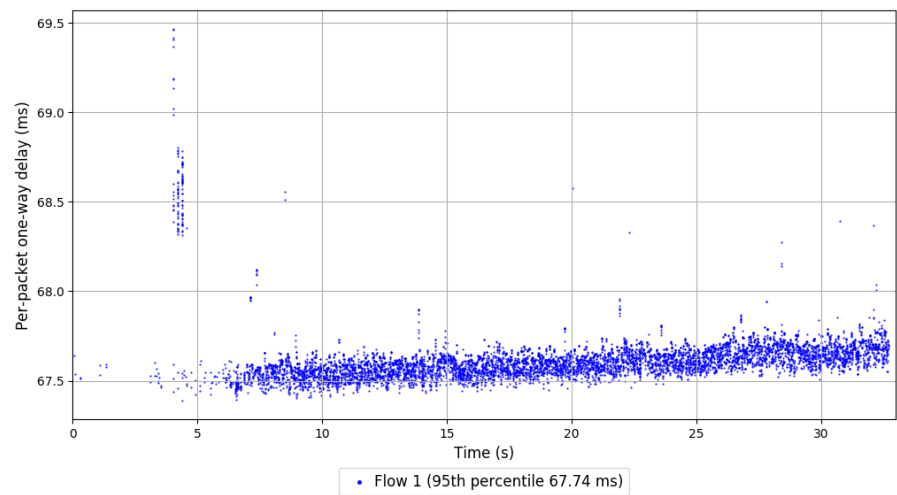
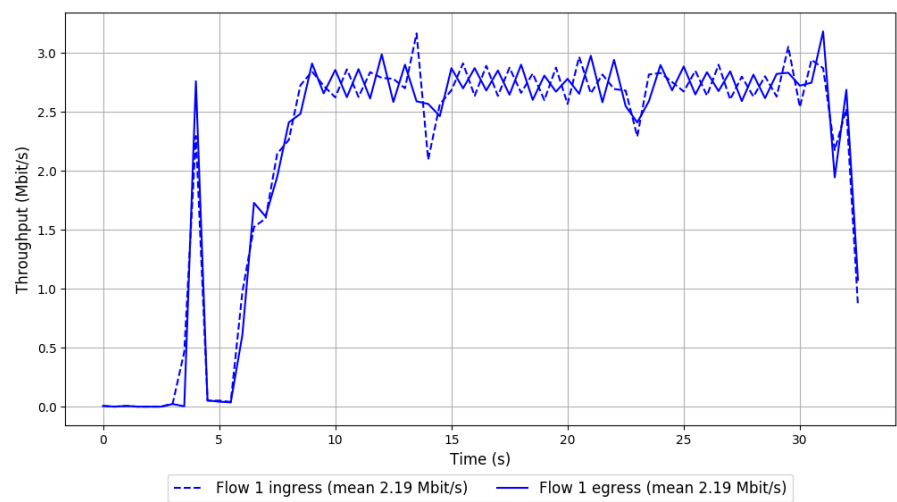
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 67.736 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-25 20:06:23

End at: 2018-01-25 20:06:53

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 71.685 ms

Loss rate: 0.00%

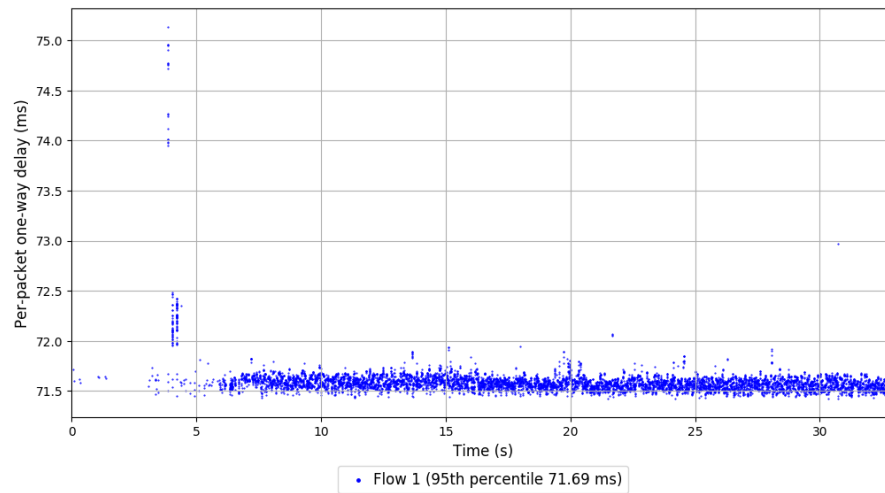
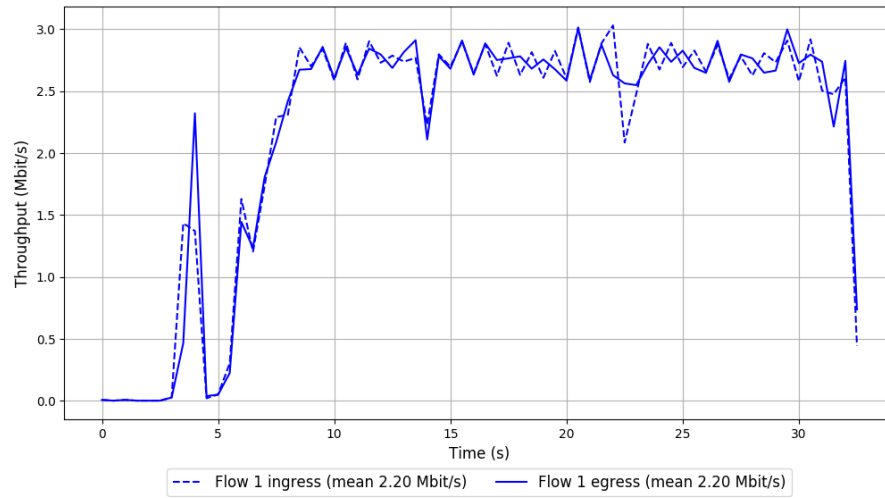
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 71.685 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-25 20:19:12

End at: 2018-01-25 20:19:42

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 71.838 ms

Loss rate: 0.00%

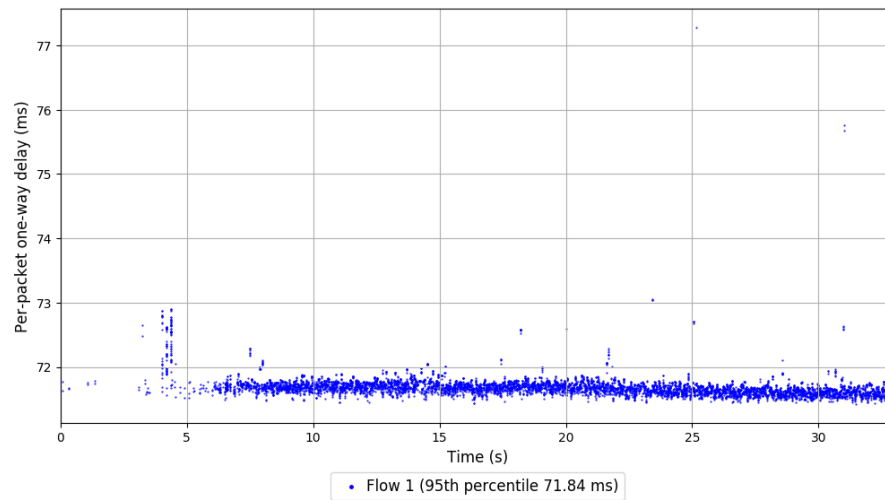
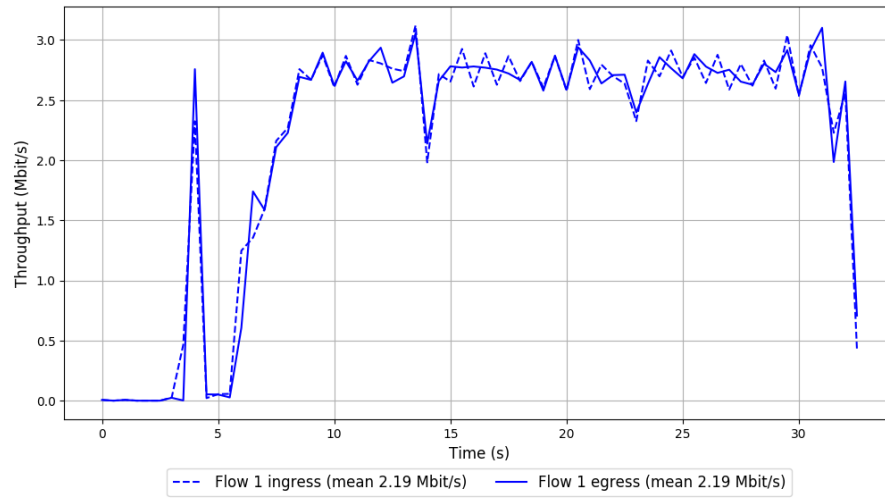
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 71.838 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-25 20:31:53

End at: 2018-01-25 20:32:23

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 71.065 ms

Loss rate: 0.00%

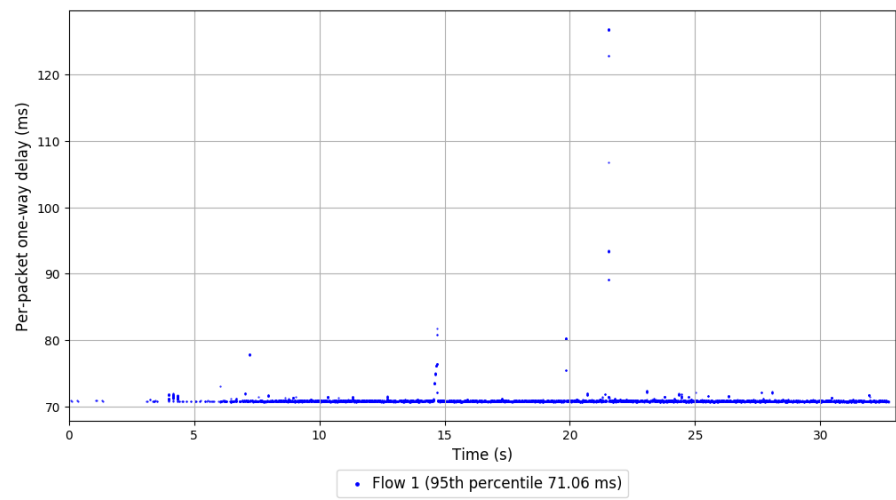
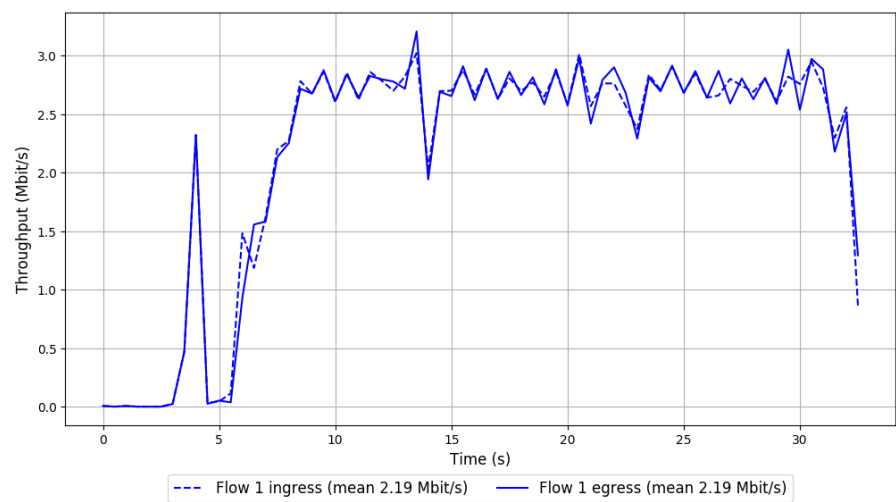
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 71.065 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-25 18:37:06

End at: 2018-01-25 18:37:36

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 82.170 ms

Loss rate: 0.04%

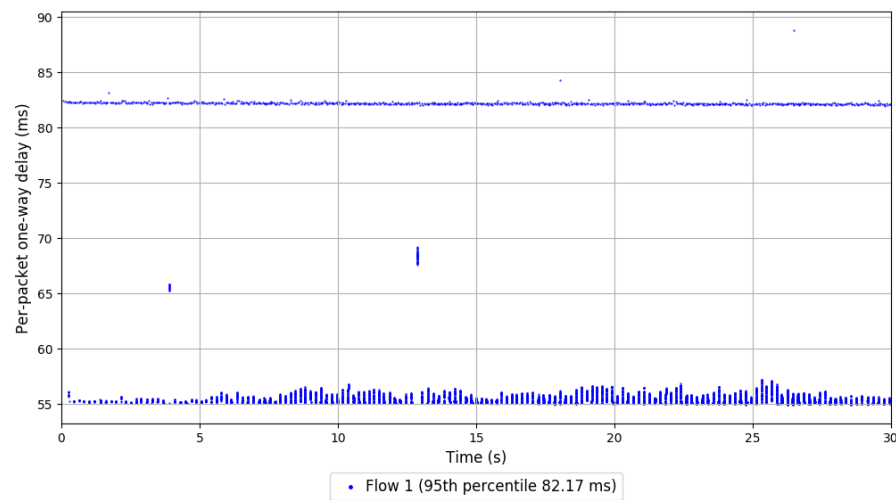
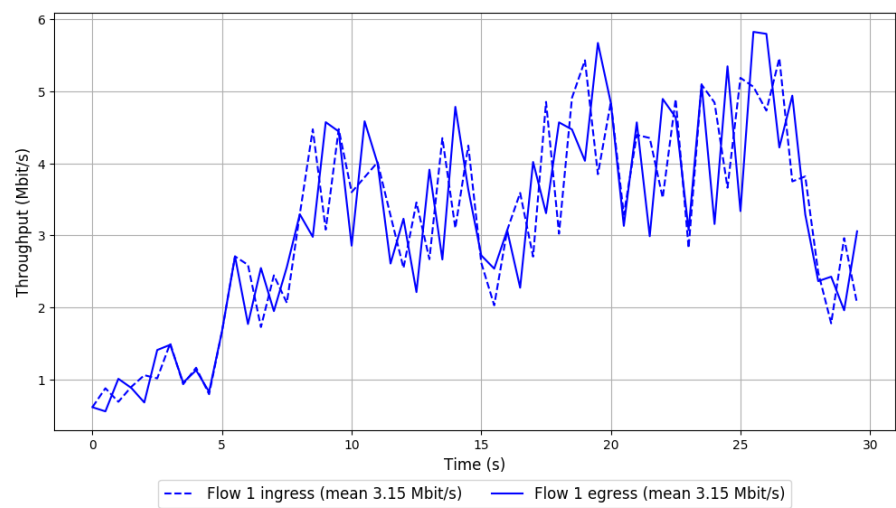
-- Flow 1:

Average throughput: 3.15 Mbit/s

95th percentile per-packet one-way delay: 82.170 ms

Loss rate: 0.04%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-25 18:49:50

End at: 2018-01-25 18:50:20

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 79.310 ms

Loss rate: 0.00%

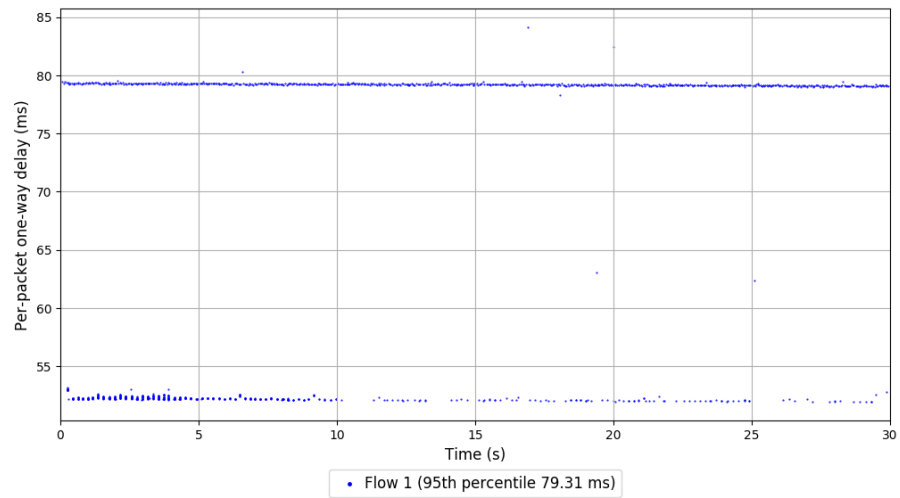
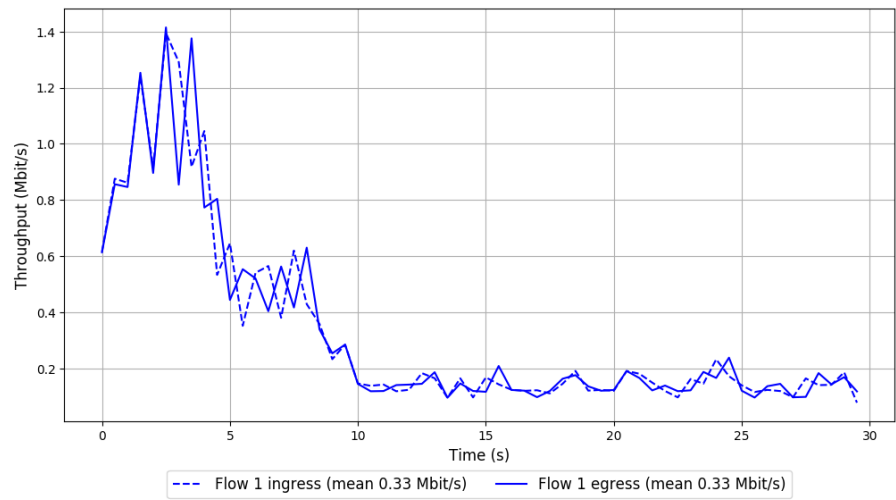
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 79.310 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-25 19:02:09

End at: 2018-01-25 19:02:39

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 59.709 ms

Loss rate: 0.00%

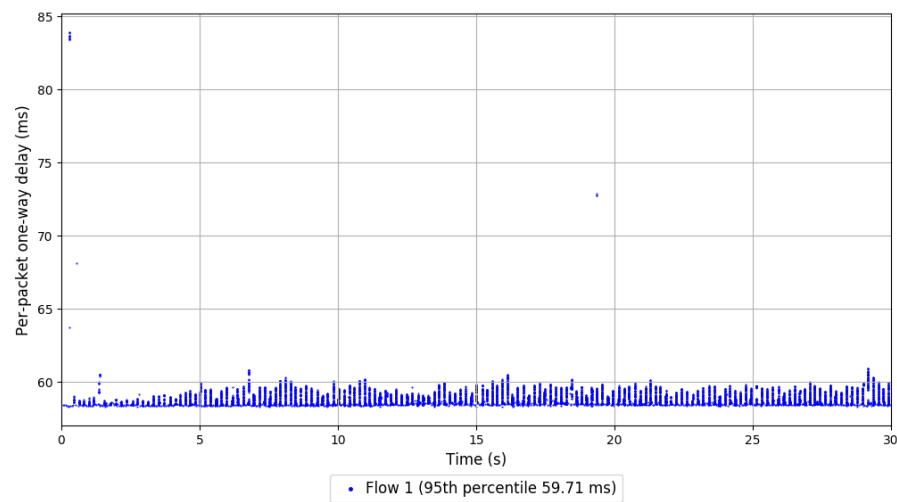
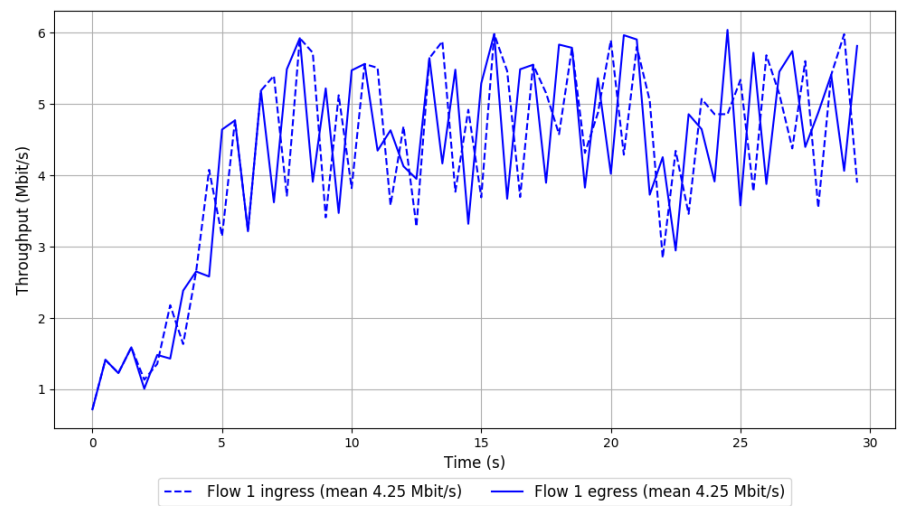
-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 59.709 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-25 19:14:45

End at: 2018-01-25 19:15:15

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 57.920 ms

Loss rate: 1.13%

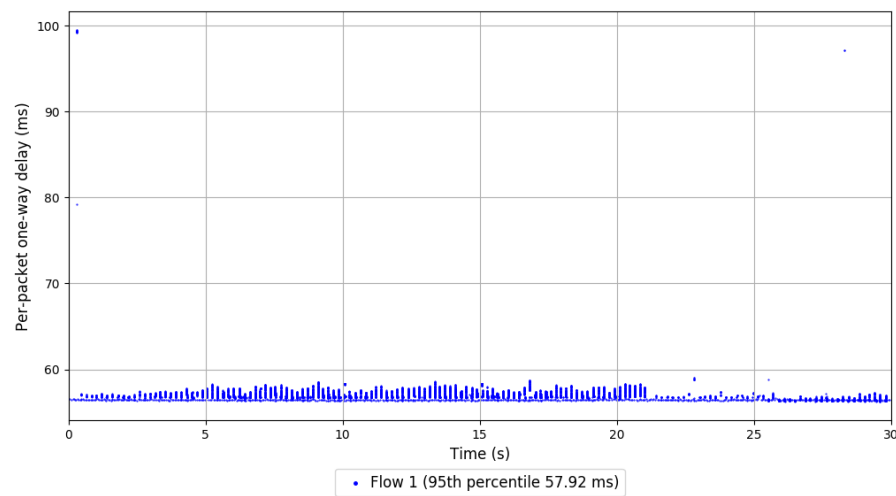
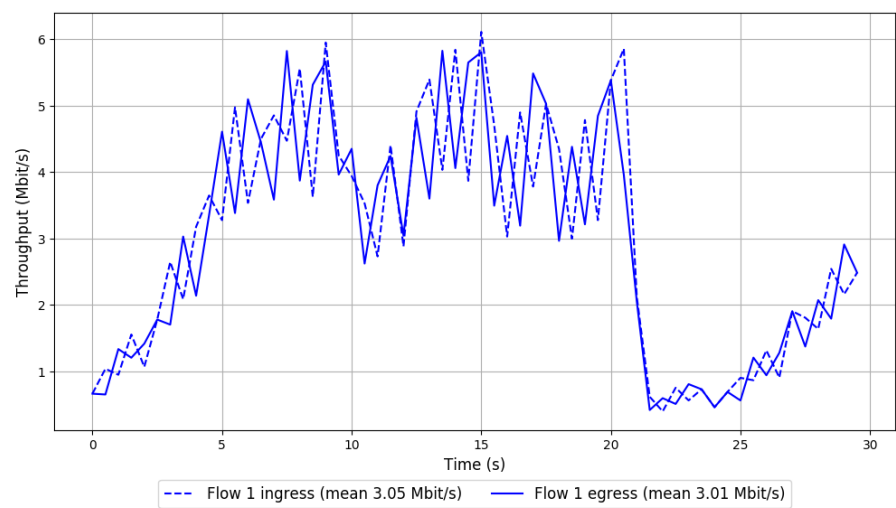
-- Flow 1:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 57.920 ms

Loss rate: 1.13%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-25 19:27:27

End at: 2018-01-25 19:27:57

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 58.158 ms

Loss rate: 1.06%

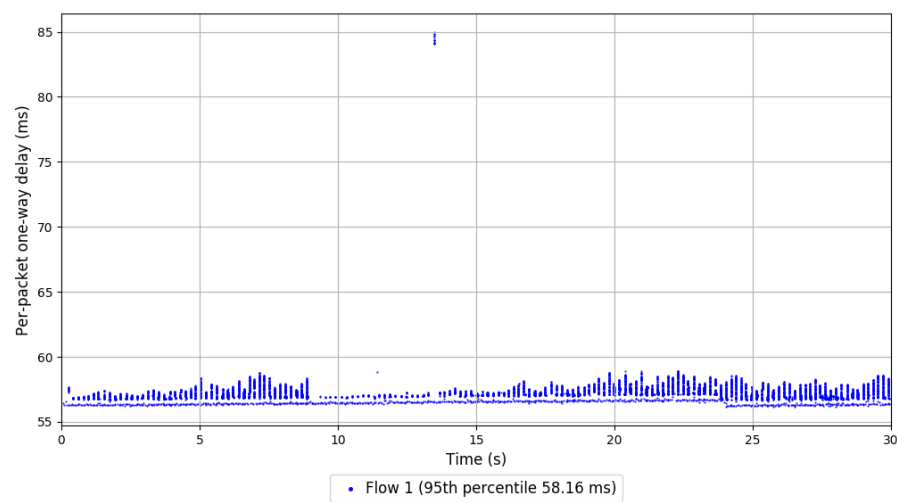
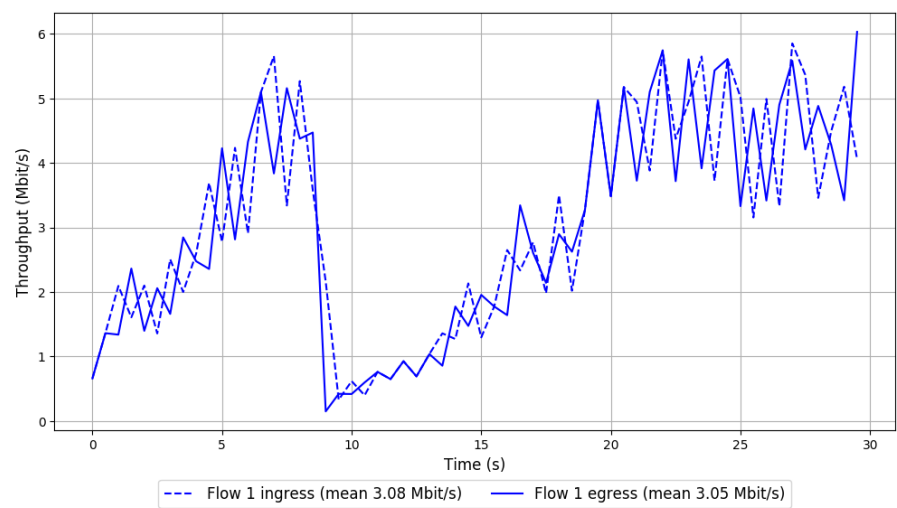
-- Flow 1:

Average throughput: 3.05 Mbit/s

95th percentile per-packet one-way delay: 58.158 ms

Loss rate: 1.06%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-25 19:40:16

End at: 2018-01-25 19:40:46

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 92.507 ms

Loss rate: 0.00%

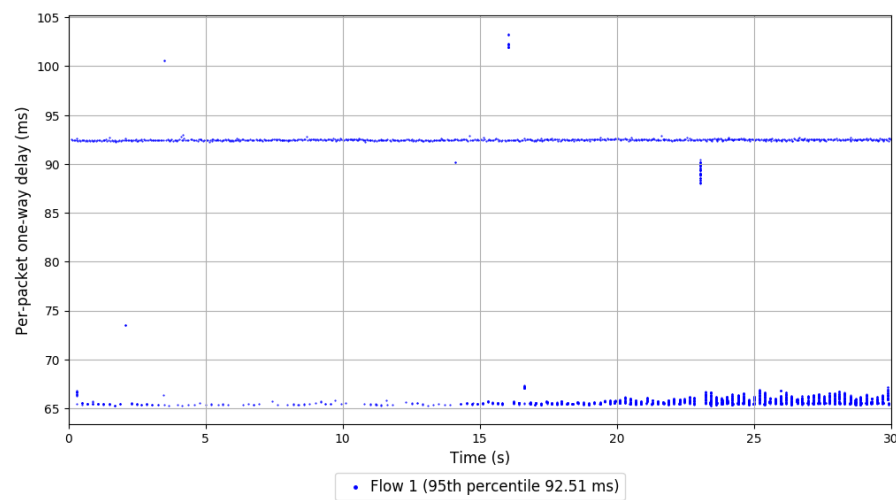
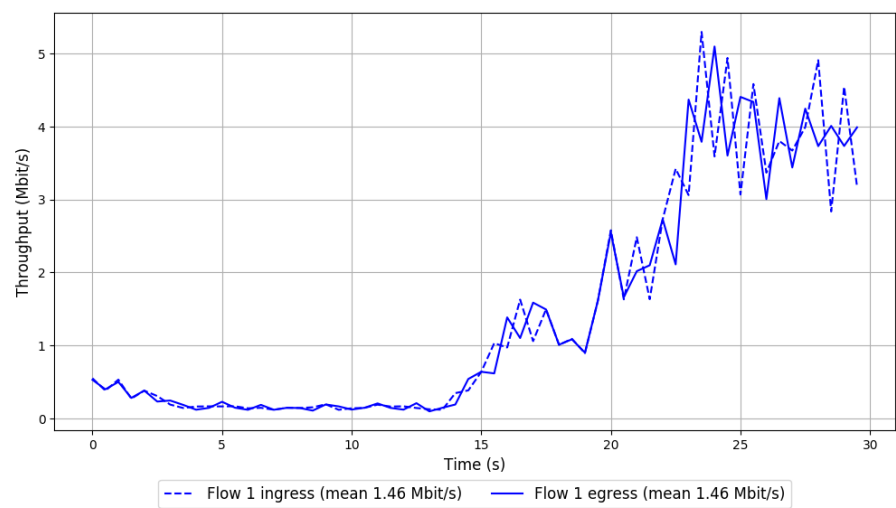
-- Flow 1:

Average throughput: 1.46 Mbit/s

95th percentile per-packet one-way delay: 92.507 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-25 19:52:56

End at: 2018-01-25 19:53:26

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 69.536 ms

Loss rate: 1.12%

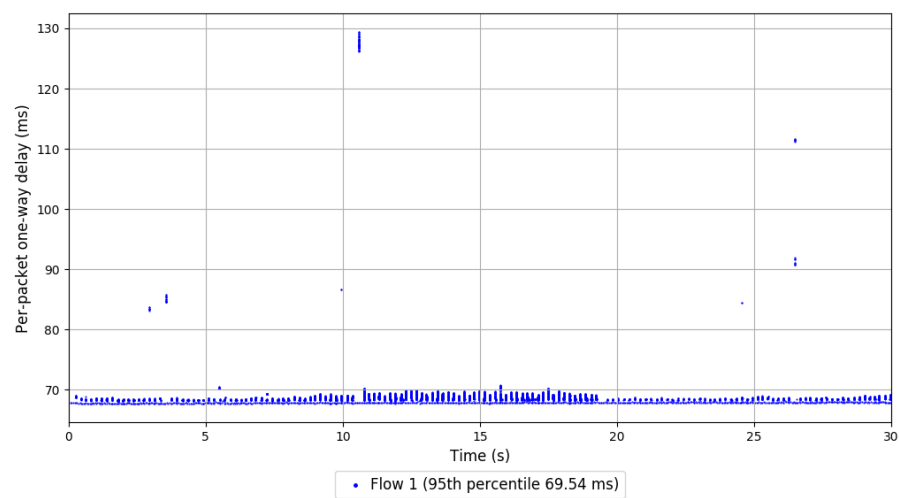
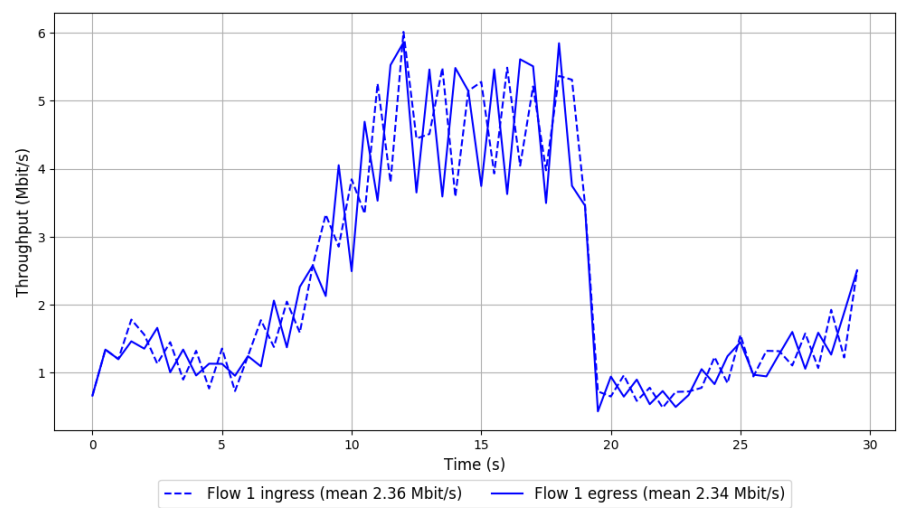
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 69.536 ms

Loss rate: 1.12%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-25 20:05:43

End at: 2018-01-25 20:06:13

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 73.188 ms

Loss rate: 1.36%

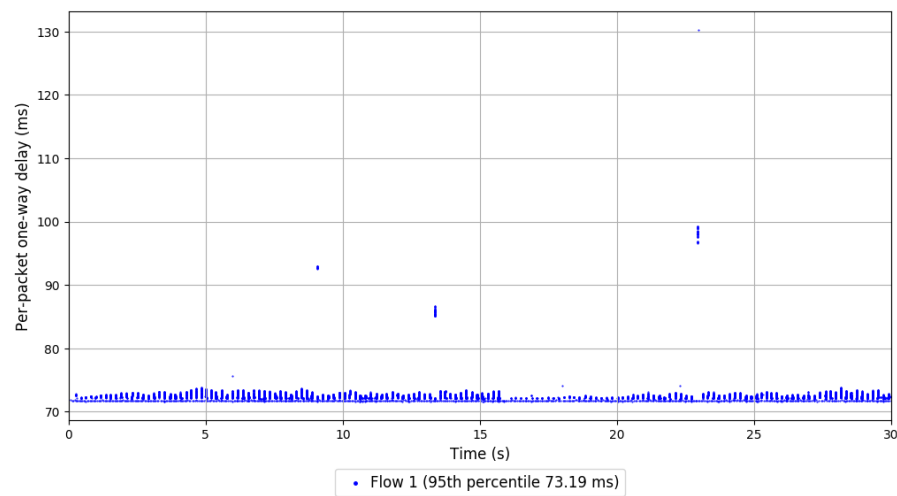
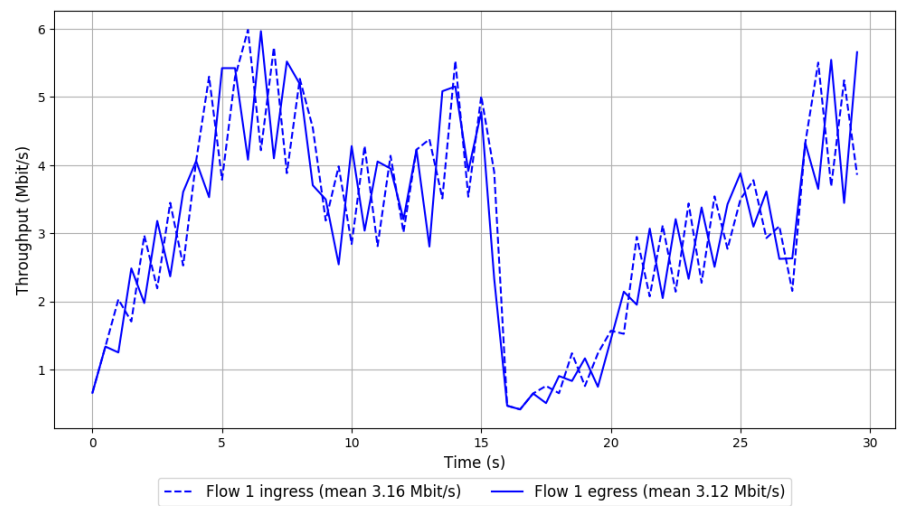
-- Flow 1:

Average throughput: 3.12 Mbit/s

95th percentile per-packet one-way delay: 73.188 ms

Loss rate: 1.36%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-25 20:18:33

End at: 2018-01-25 20:19:03

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 72.986 ms

Loss rate: 1.02%

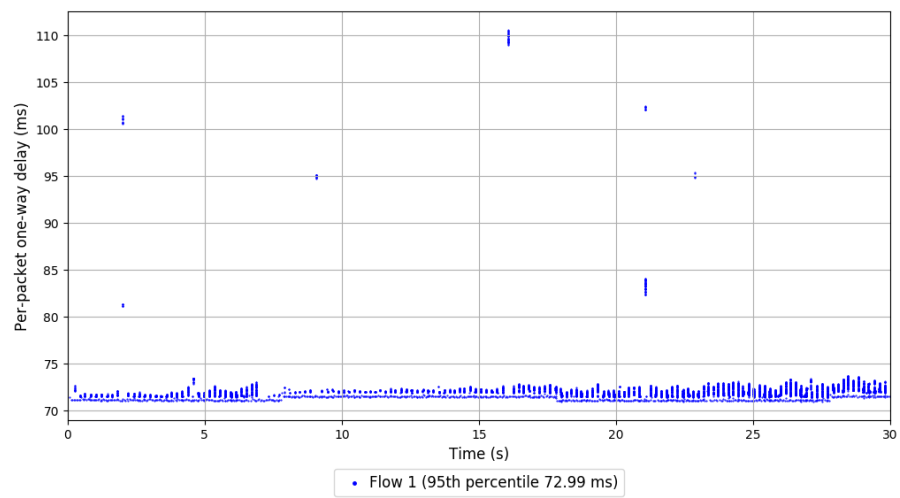
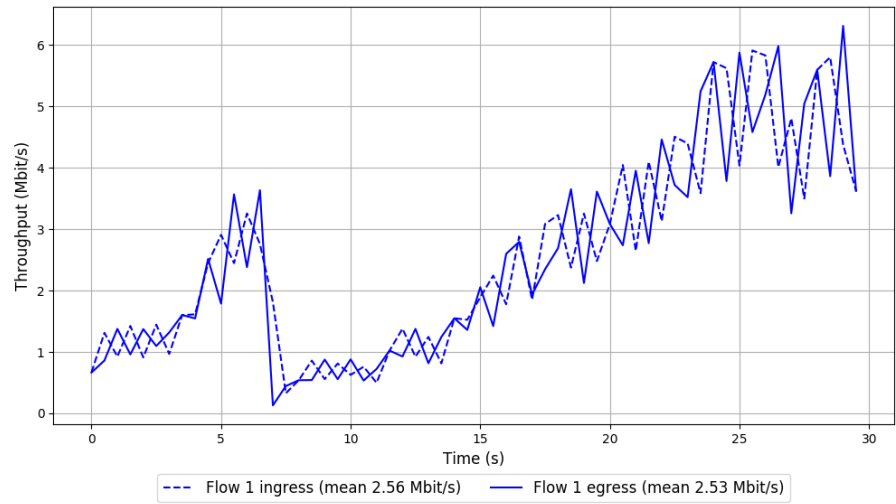
-- Flow 1:

Average throughput: 2.53 Mbit/s

95th percentile per-packet one-way delay: 72.986 ms

Loss rate: 1.02%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-25 20:31:13

End at: 2018-01-25 20:31:43

Below is generated by plot.py at 2018-01-25 21:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 72.503 ms

Loss rate: 2.09%

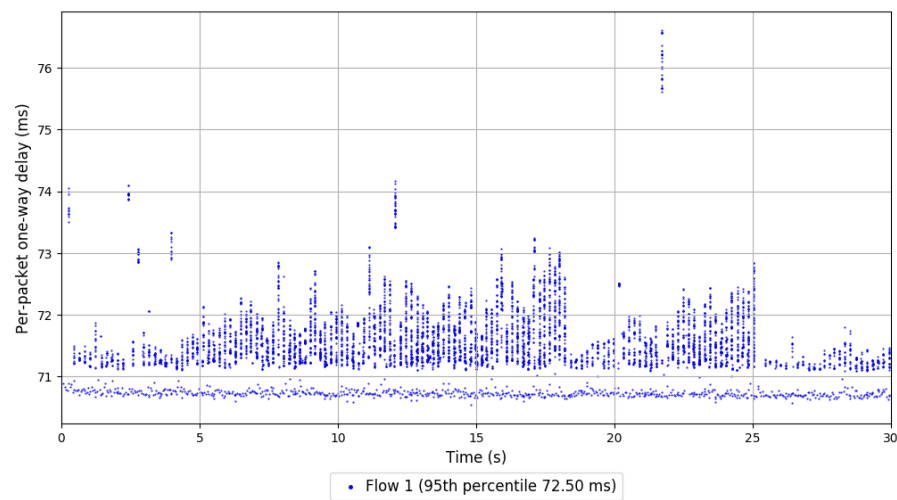
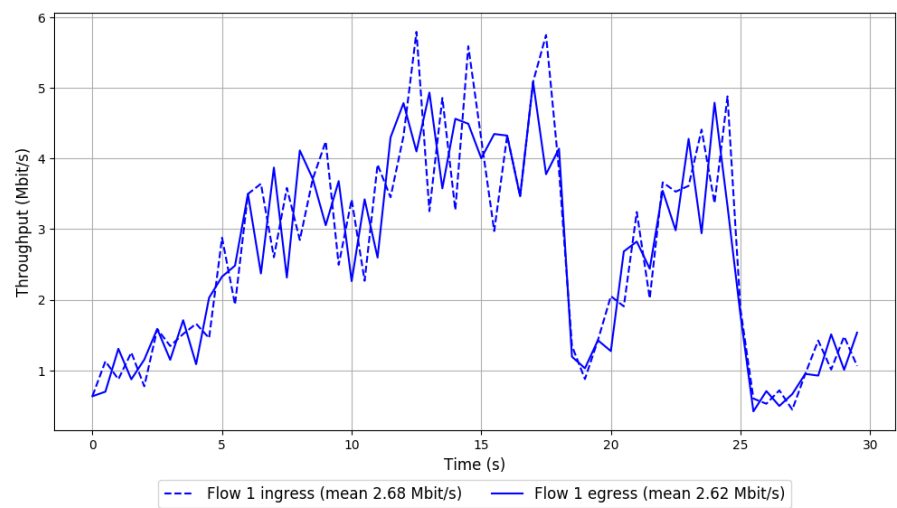
-- Flow 1:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 72.503 ms

Loss rate: 2.09%

Run 10: Report of Sprout — Data Link

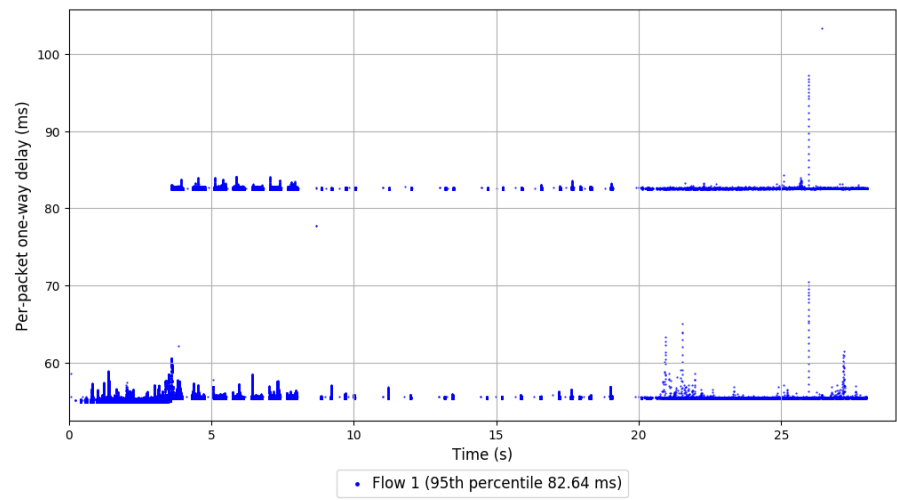
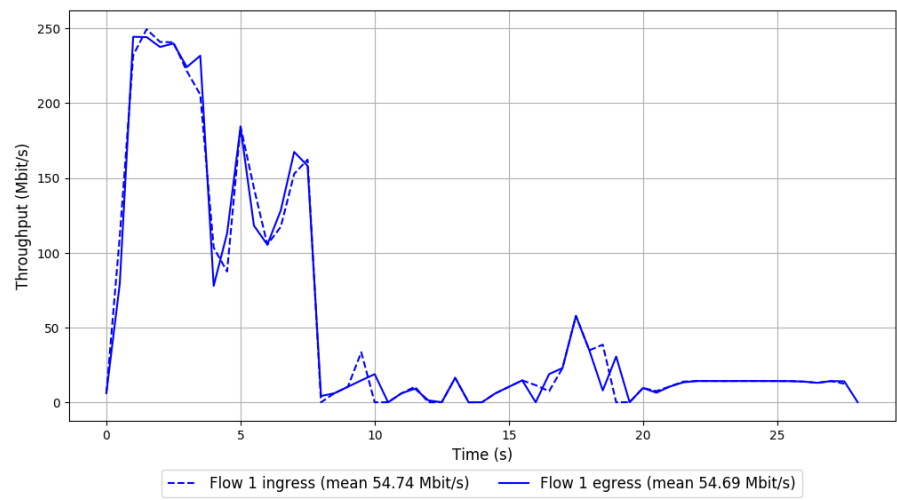


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-25 18:31:25
End at: 2018-01-25 18:31:55

# Below is generated by plot.py at 2018-01-25 21:36:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.69 Mbit/s
95th percentile per-packet one-way delay: 82.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 54.69 Mbit/s
95th percentile per-packet one-way delay: 82.640 ms
Loss rate: 0.00%
```


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

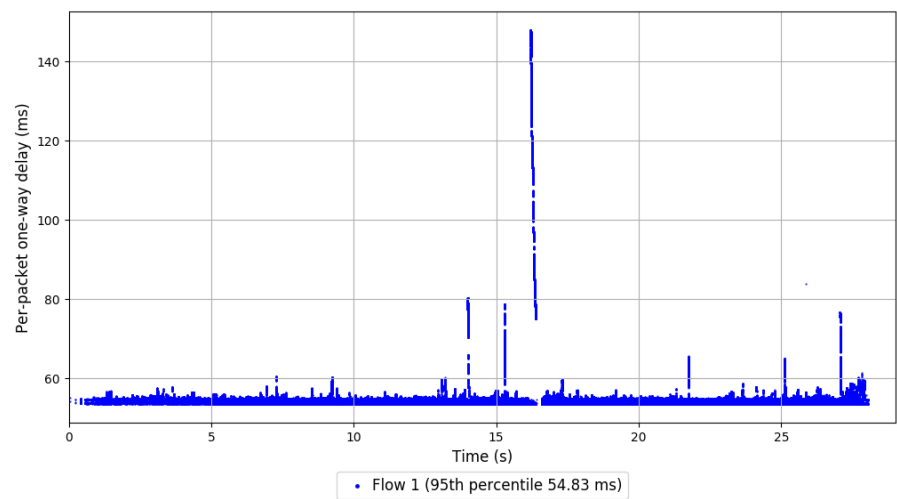
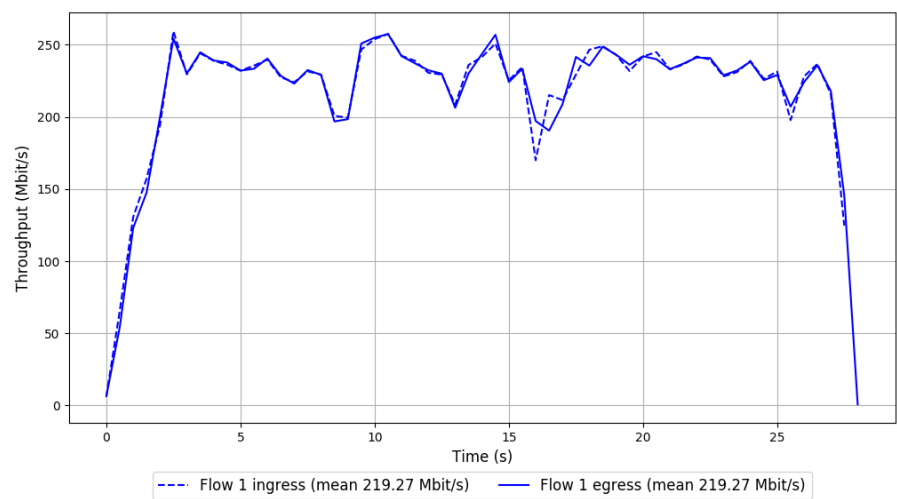


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-25 18:43:55
End at: 2018-01-25 18:44:25

# Below is generated by plot.py at 2018-01-25 21:38:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.27 Mbit/s
95th percentile per-packet one-way delay: 54.826 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.27 Mbit/s
95th percentile per-packet one-way delay: 54.826 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-25 18:56:34

End at: 2018-01-25 18:57:04

Below is generated by plot.py at 2018-01-25 21:38:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 83.788 ms

Loss rate: 0.00%

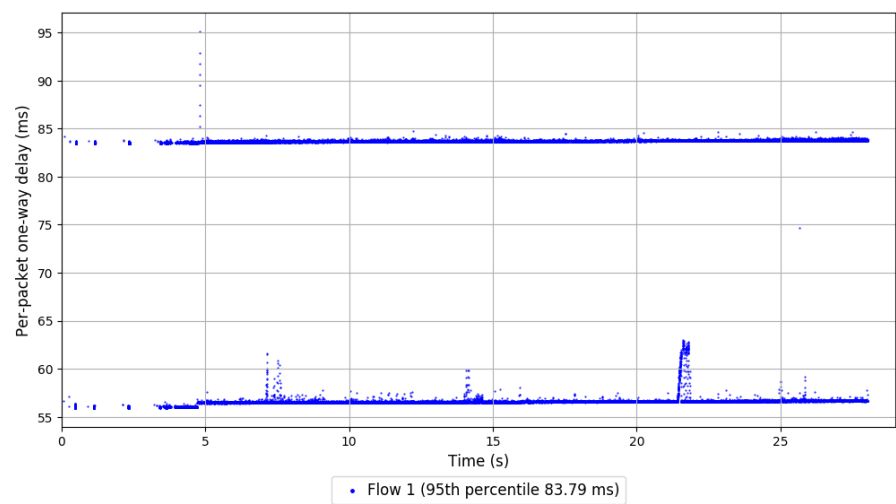
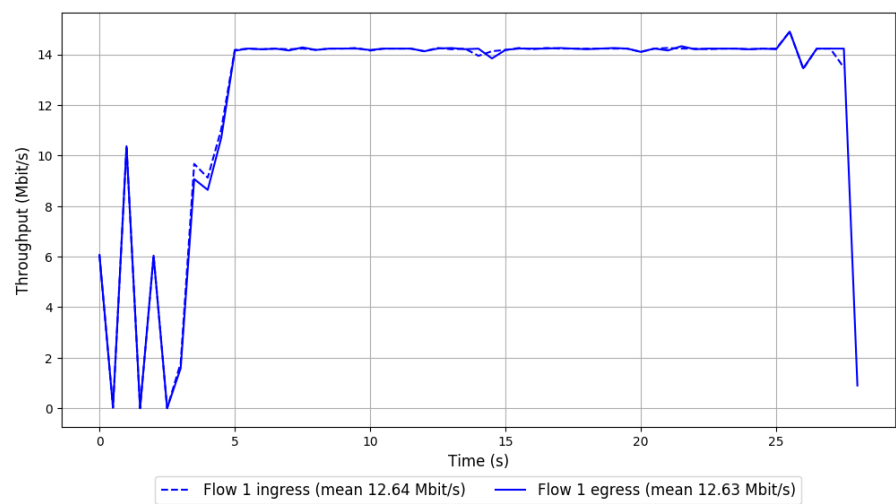
-- Flow 1:

Average throughput: 12.63 Mbit/s

95th percentile per-packet one-way delay: 83.788 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-25 19:09:06

End at: 2018-01-25 19:09:36

Below is generated by plot.py at 2018-01-25 21:38:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.53 Mbit/s

95th percentile per-packet one-way delay: 85.480 ms

Loss rate: 0.00%

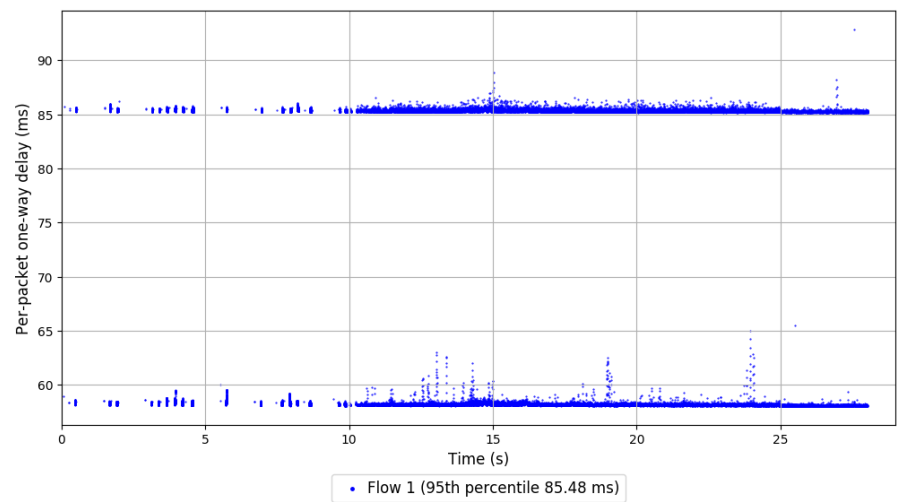
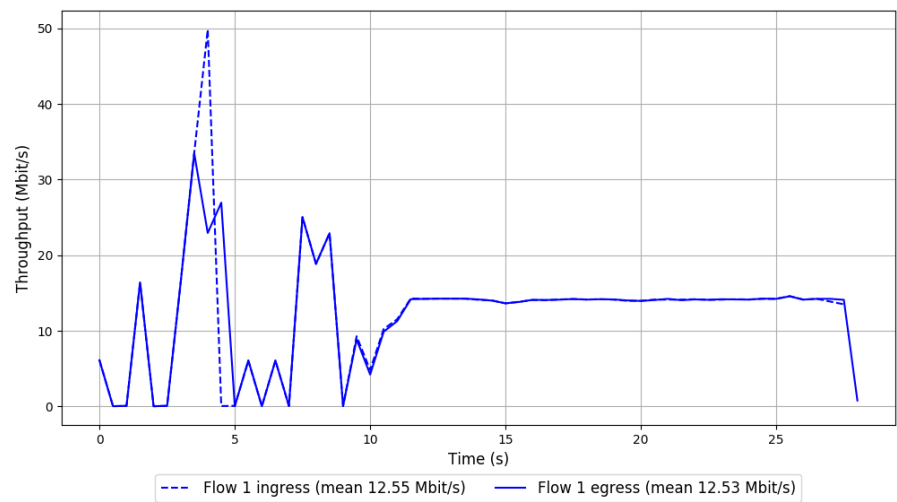
-- Flow 1:

Average throughput: 12.53 Mbit/s

95th percentile per-packet one-way delay: 85.480 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-25 19:21:28

End at: 2018-01-25 19:21:58

Below is generated by plot.py at 2018-01-25 21:38:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.83 Mbit/s

95th percentile per-packet one-way delay: 55.946 ms

Loss rate: 0.00%

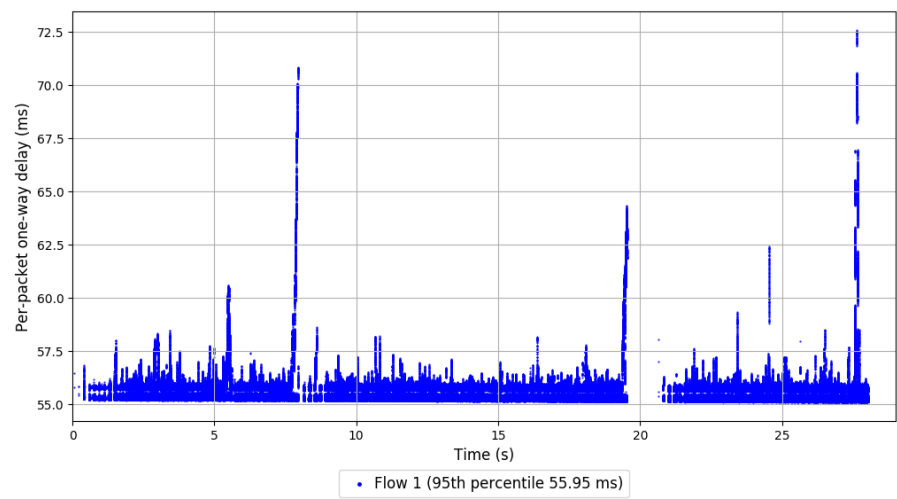
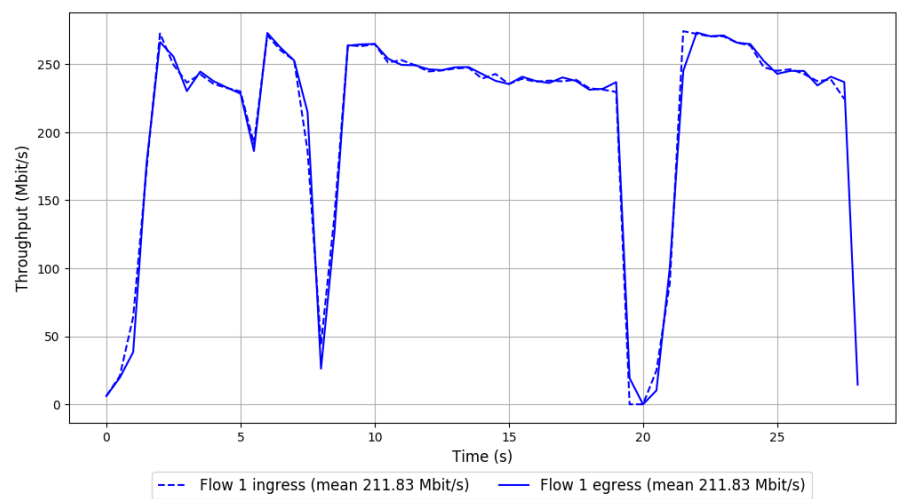
-- Flow 1:

Average throughput: 211.83 Mbit/s

95th percentile per-packet one-way delay: 55.946 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-25 19:34:17

End at: 2018-01-25 19:34:47

Below is generated by plot.py at 2018-01-25 21:38:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.86 Mbit/s

95th percentile per-packet one-way delay: 62.833 ms

Loss rate: 0.00%

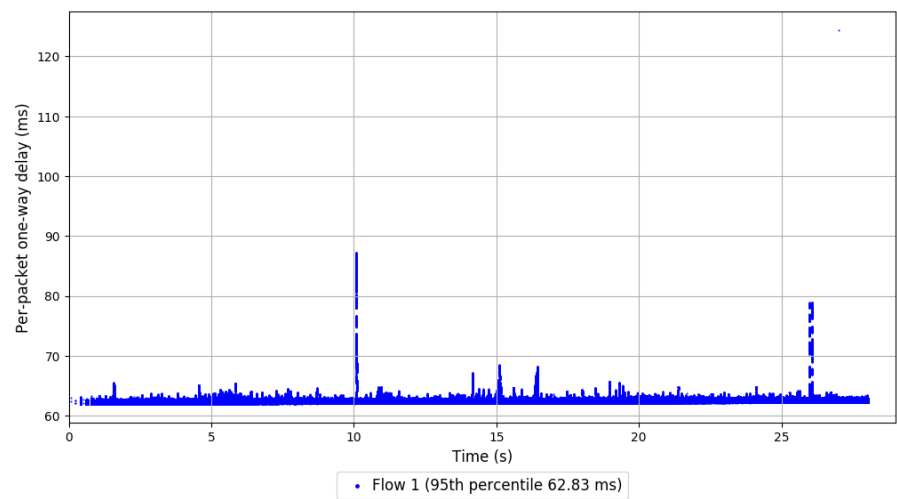
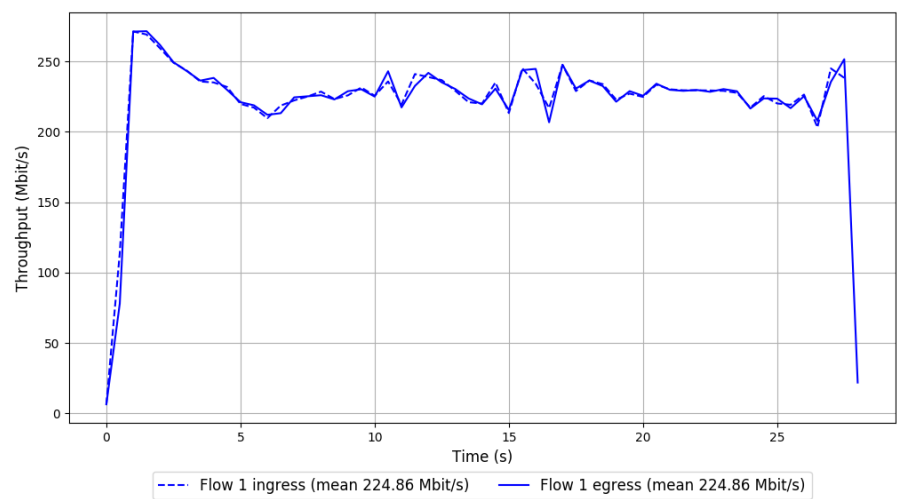
-- Flow 1:

Average throughput: 224.86 Mbit/s

95th percentile per-packet one-way delay: 62.833 ms

Loss rate: 0.00%

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

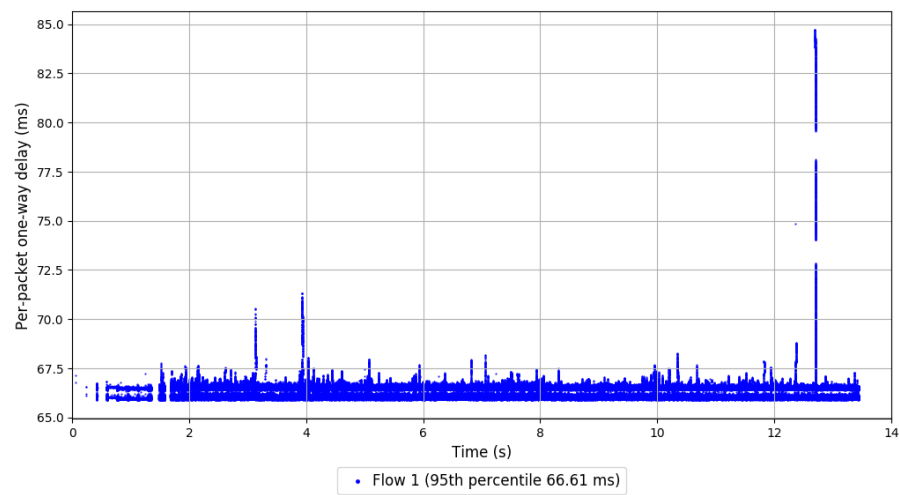
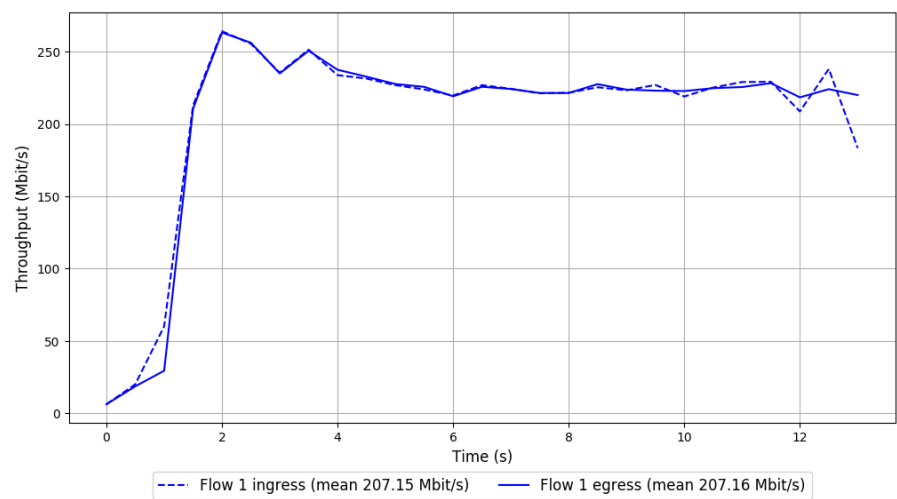


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-25 19:47:09

End at: 2018-01-25 19:47:39

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-25 19:59:42

End at: 2018-01-25 20:00:12

Below is generated by plot.py at 2018-01-25 21:39:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.13 Mbit/s

95th percentile per-packet one-way delay: 70.582 ms

Loss rate: 0.00%

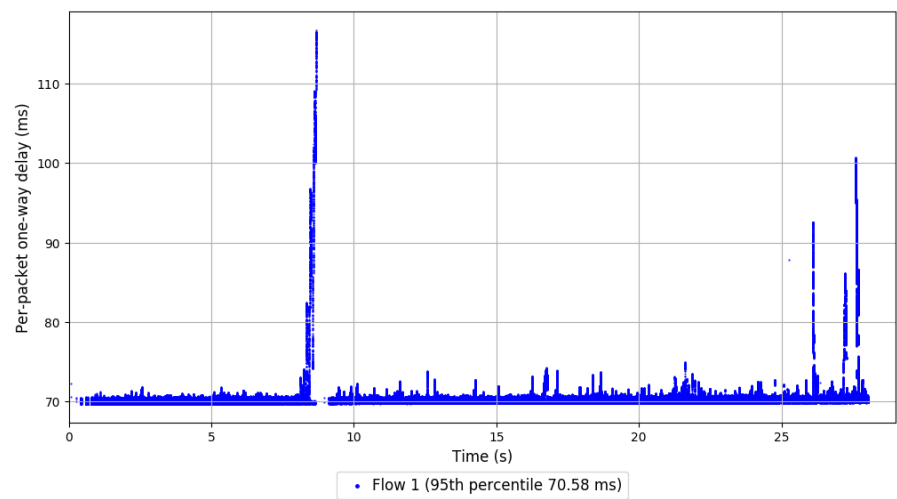
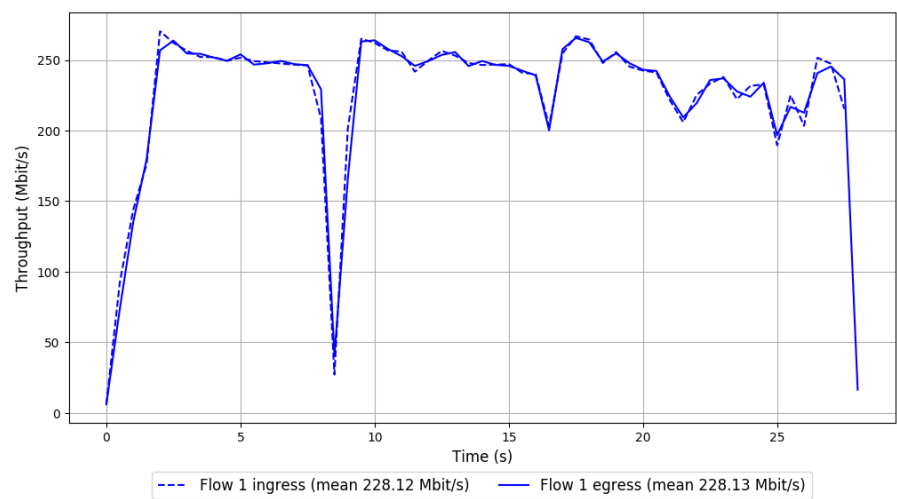
-- Flow 1:

Average throughput: 228.13 Mbit/s

95th percentile per-packet one-way delay: 70.582 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-25 20:12:38

End at: 2018-01-25 20:13:08

Below is generated by plot.py at 2018-01-25 21:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.81 Mbit/s

95th percentile per-packet one-way delay: 72.319 ms

Loss rate: 0.00%

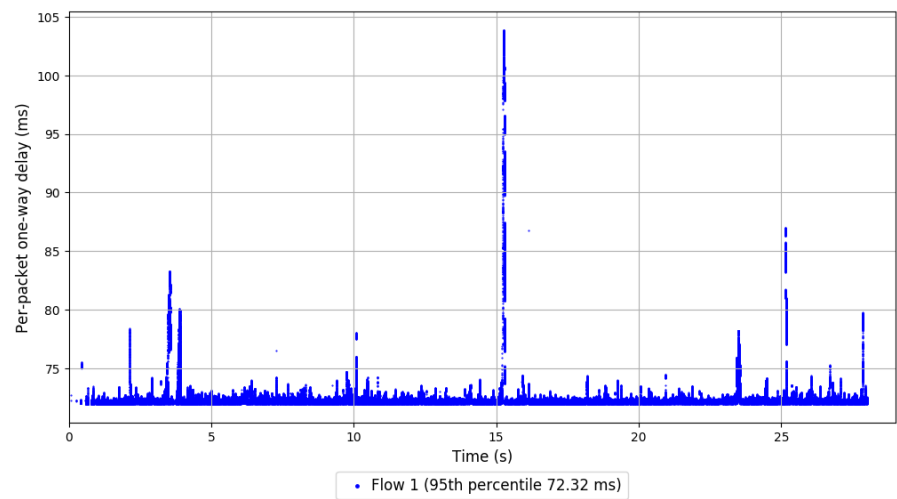
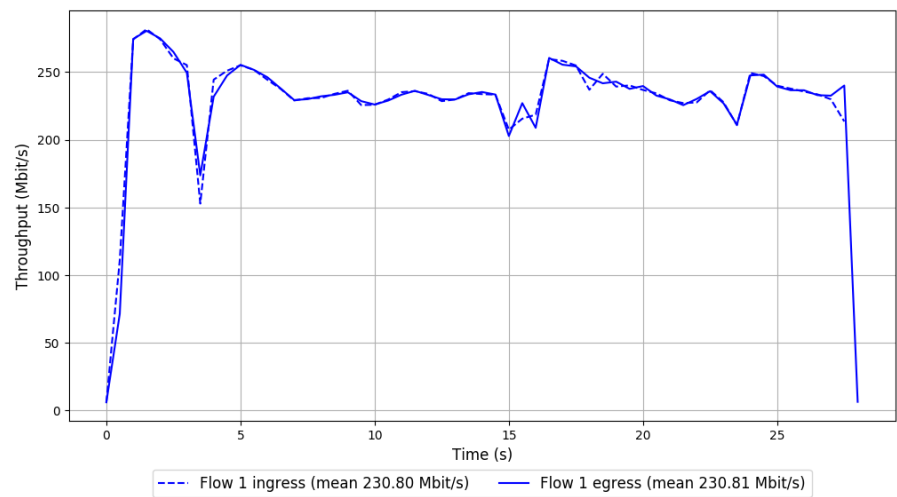
-- Flow 1:

Average throughput: 230.81 Mbit/s

95th percentile per-packet one-way delay: 72.319 ms

Loss rate: 0.00%

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

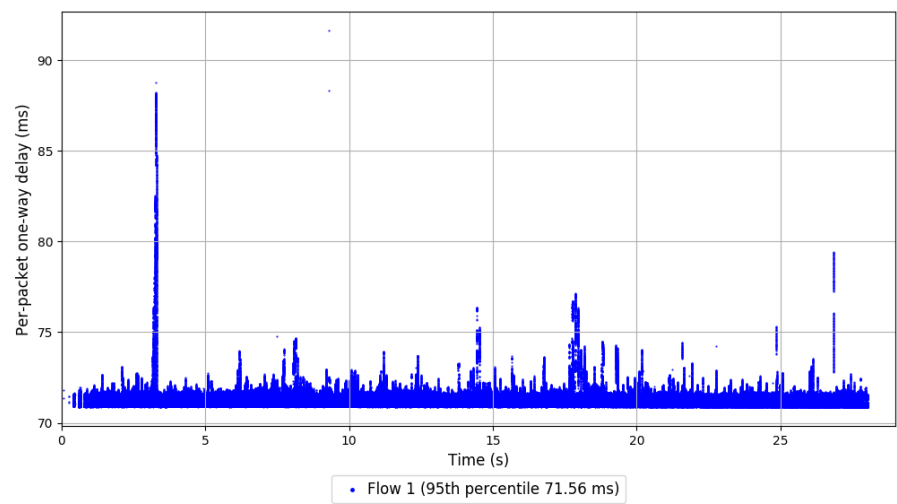
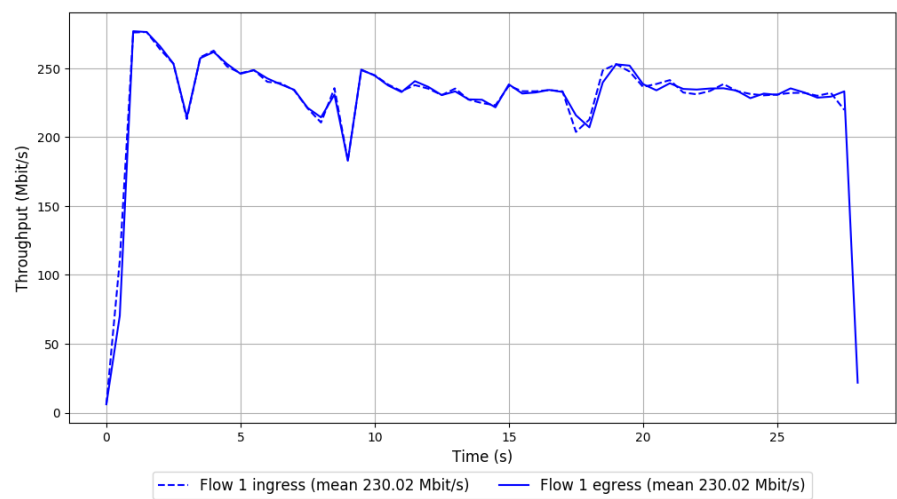


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-25 20:25:22
End at: 2018-01-25 20:25:52

# Below is generated by plot.py at 2018-01-25 21:42:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.02 Mbit/s
95th percentile per-packet one-way delay: 71.558 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 230.02 Mbit/s
95th percentile per-packet one-way delay: 71.558 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-25 18:27:36

End at: 2018-01-25 18:28:06

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 55.545 ms

Loss rate: 0.85%

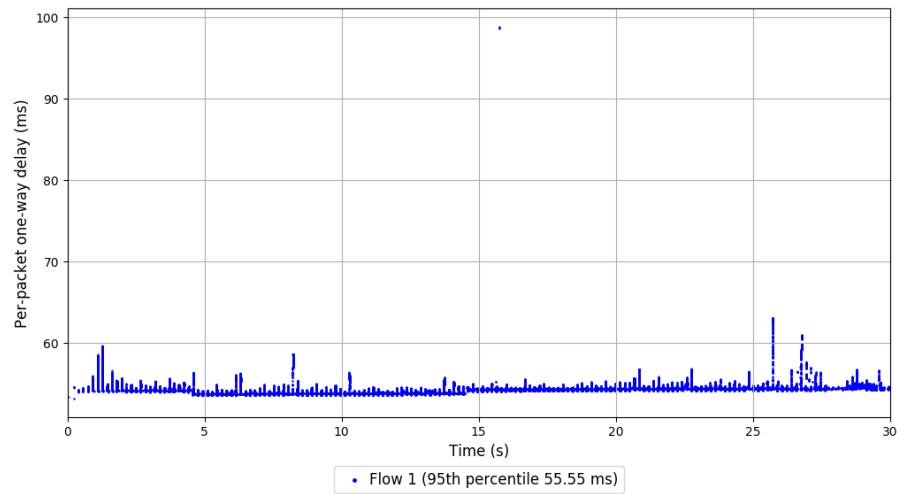
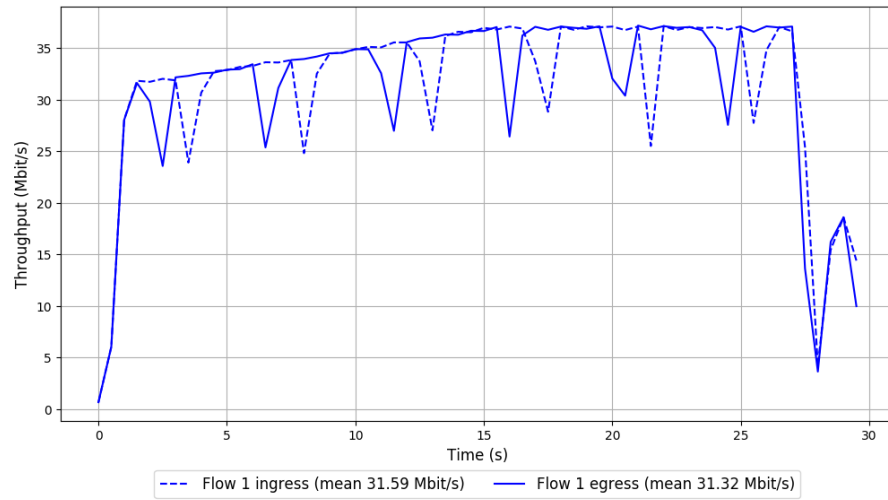
-- Flow 1:

Average throughput: 31.32 Mbit/s

95th percentile per-packet one-way delay: 55.545 ms

Loss rate: 0.85%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-25 18:40:05

End at: 2018-01-25 18:40:35

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 56.561 ms

Loss rate: 1.46%

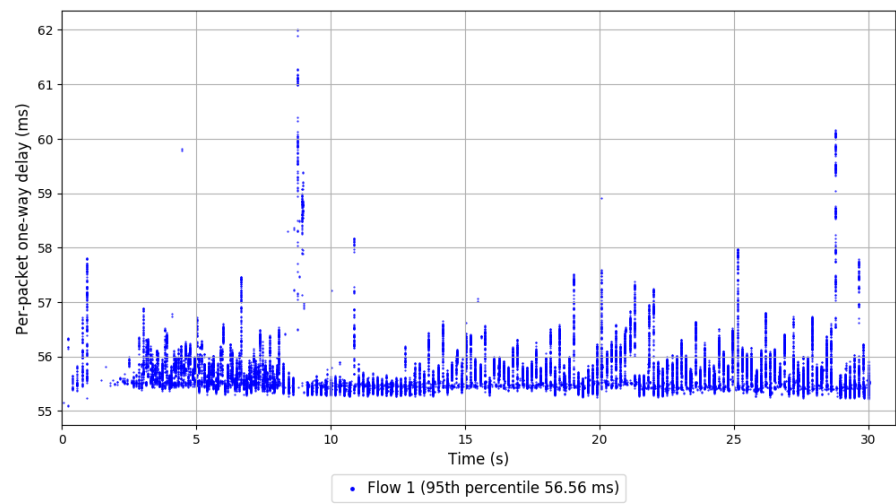
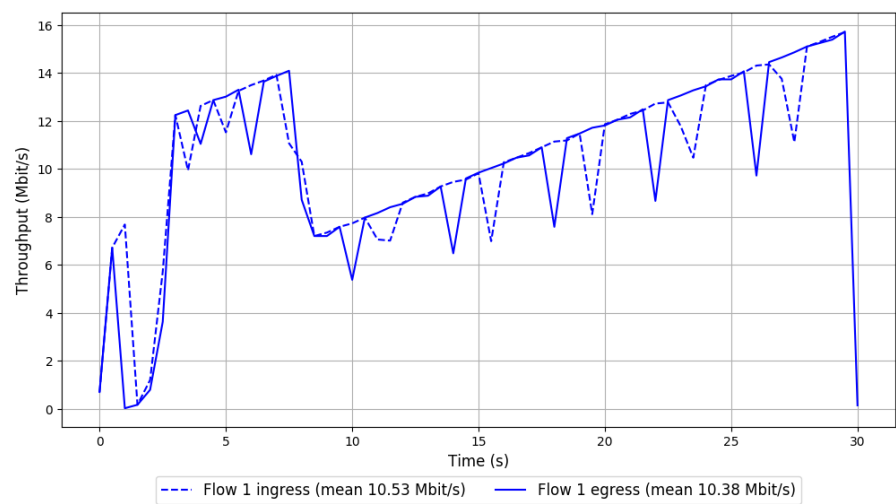
-- Flow 1:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 56.561 ms

Loss rate: 1.46%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-25 18:52:49

End at: 2018-01-25 18:53:19

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.11 Mbit/s

95th percentile per-packet one-way delay: 55.295 ms

Loss rate: 3.89%

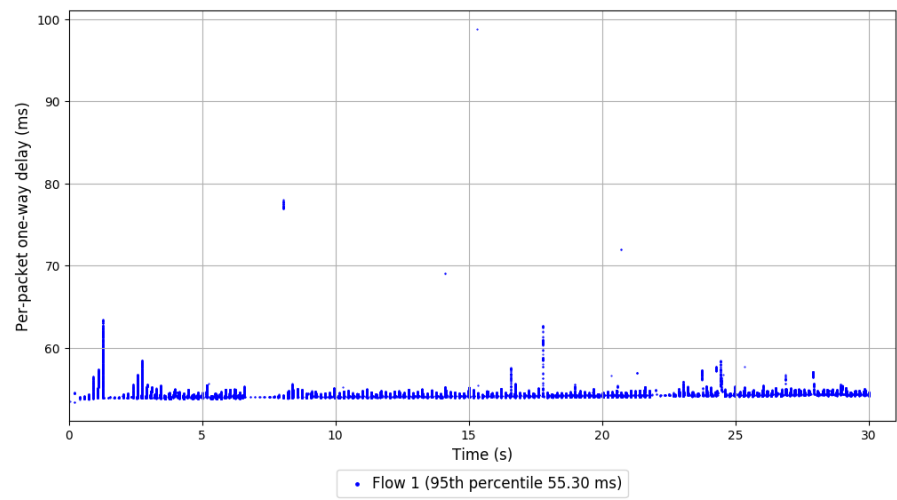
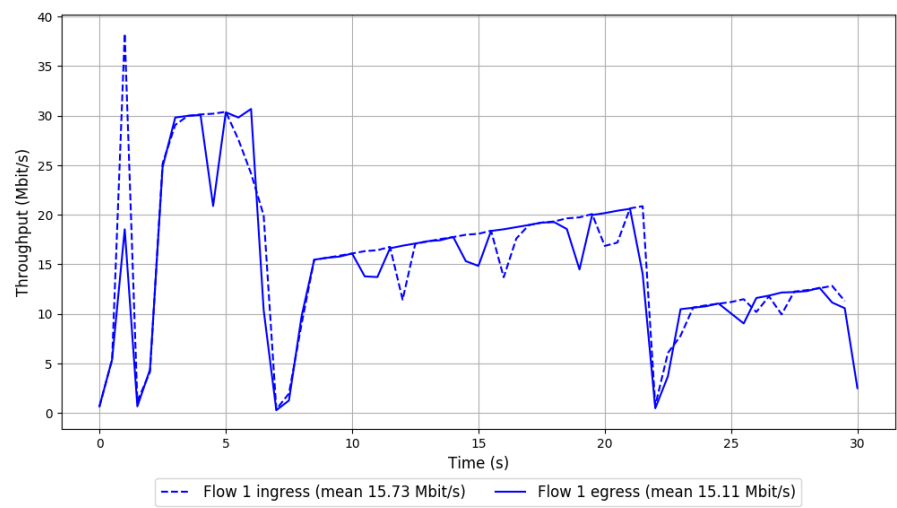
-- Flow 1:

Average throughput: 15.11 Mbit/s

95th percentile per-packet one-way delay: 55.295 ms

Loss rate: 3.89%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-25 19:05:11

End at: 2018-01-25 19:05:41

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.81 Mbit/s

95th percentile per-packet one-way delay: 60.127 ms

Loss rate: 0.00%

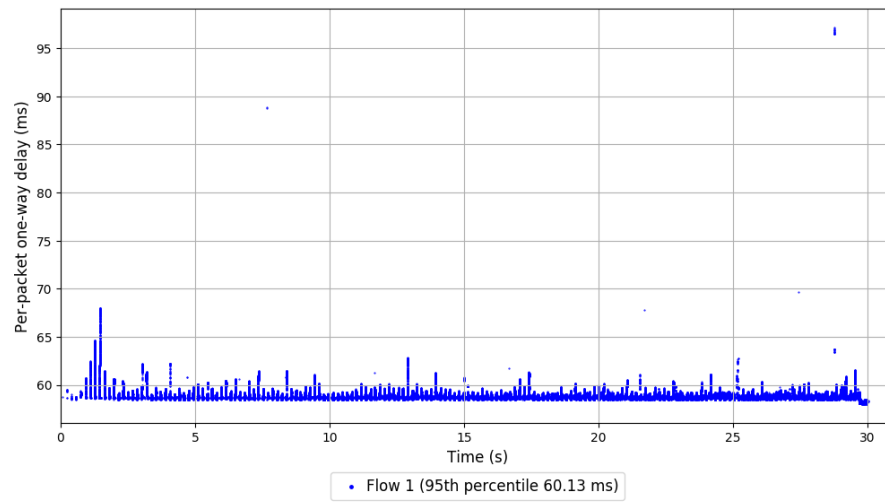
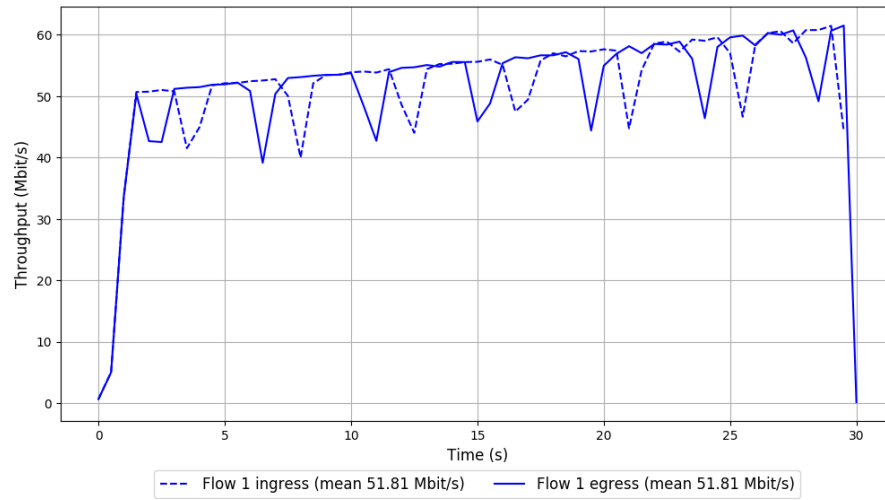
-- Flow 1:

Average throughput: 51.81 Mbit/s

95th percentile per-packet one-way delay: 60.127 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-25 19:17:46

End at: 2018-01-25 19:18:16

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.58 Mbit/s

95th percentile per-packet one-way delay: 58.418 ms

Loss rate: 2.14%

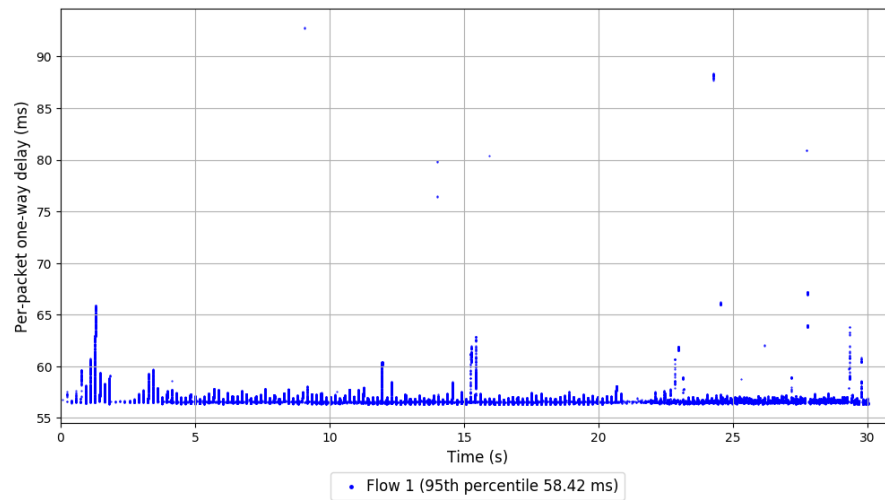
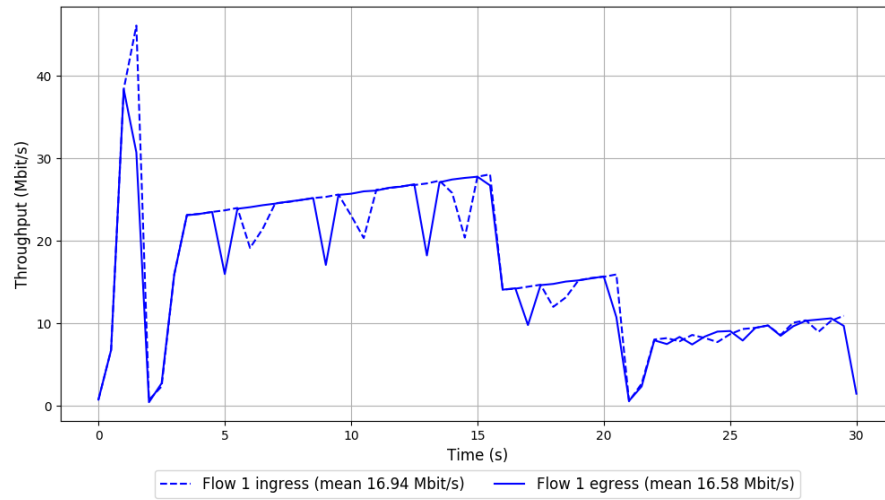
-- Flow 1:

Average throughput: 16.58 Mbit/s

95th percentile per-packet one-way delay: 58.418 ms

Loss rate: 2.14%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-25 19:30:28

End at: 2018-01-25 19:30:58

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 66.621 ms

Loss rate: 0.00%

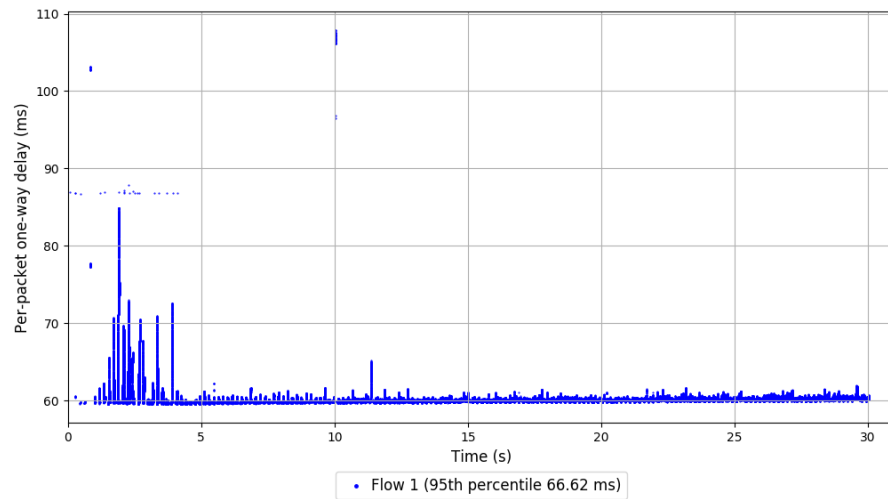
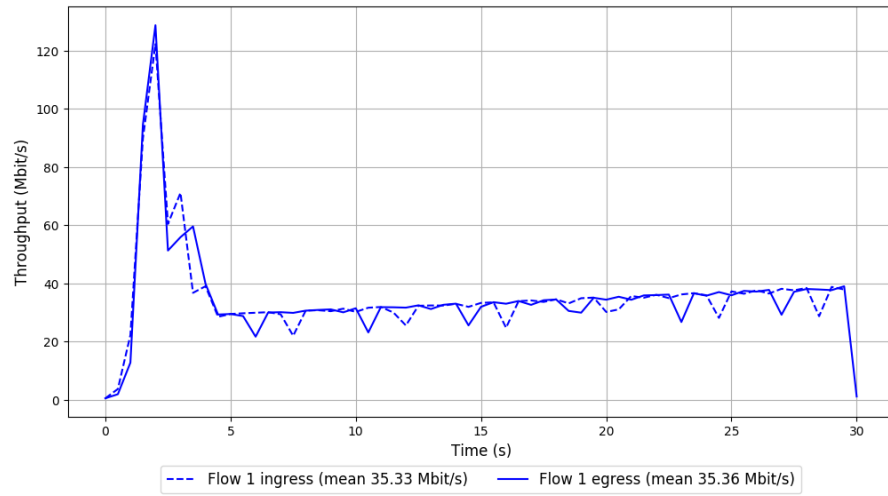
-- Flow 1:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 66.621 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-25 19:43:18

End at: 2018-01-25 19:43:48

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: 67.113 ms

Loss rate: 0.02%

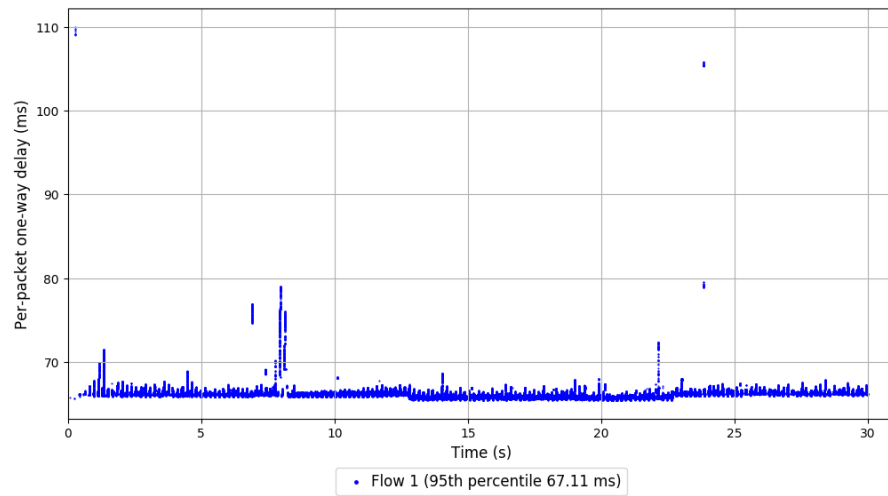
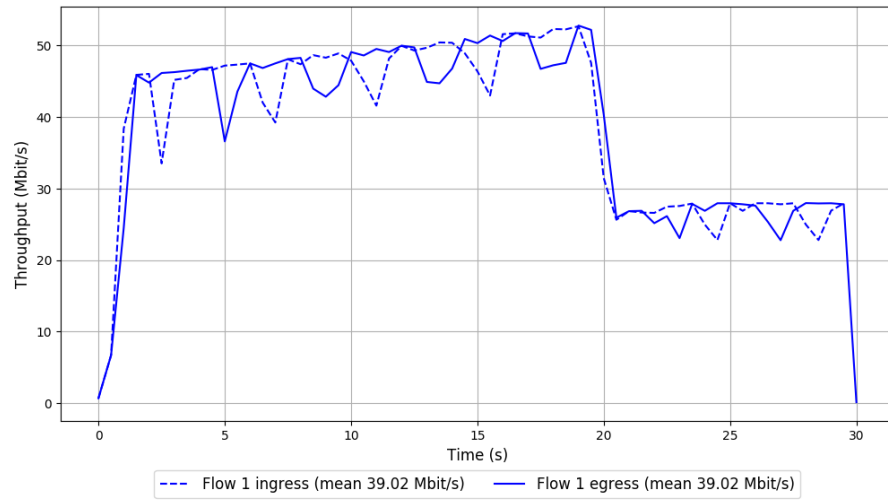
-- Flow 1:

Average throughput: 39.02 Mbit/s

95th percentile per-packet one-way delay: 67.113 ms

Loss rate: 0.02%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-25 19:55:56

End at: 2018-01-25 19:56:26

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 71.071 ms

Loss rate: 0.42%

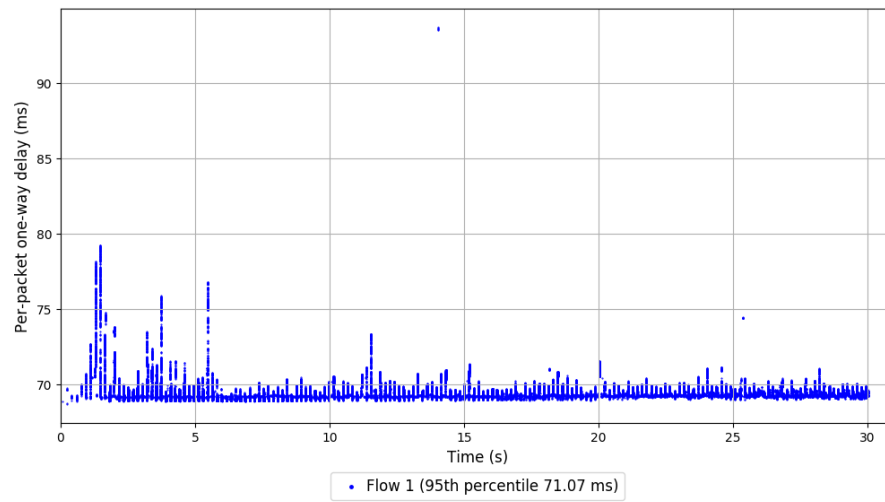
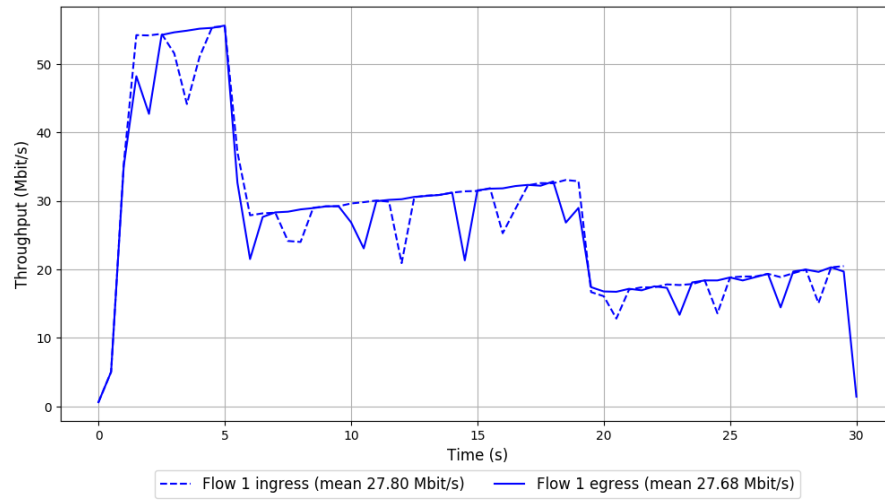
-- Flow 1:

Average throughput: 27.68 Mbit/s

95th percentile per-packet one-way delay: 71.071 ms

Loss rate: 0.42%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-25 20:08:45

End at: 2018-01-25 20:09:15

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.16 Mbit/s

95th percentile per-packet one-way delay: 73.570 ms

Loss rate: 0.45%

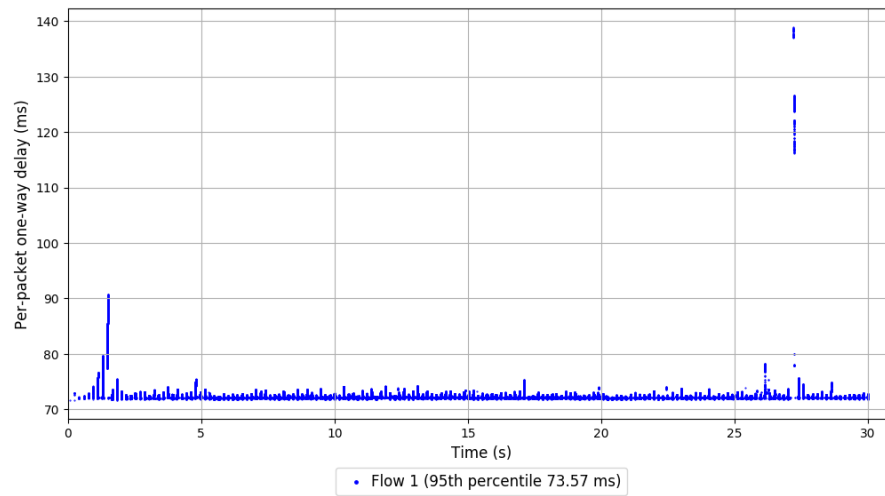
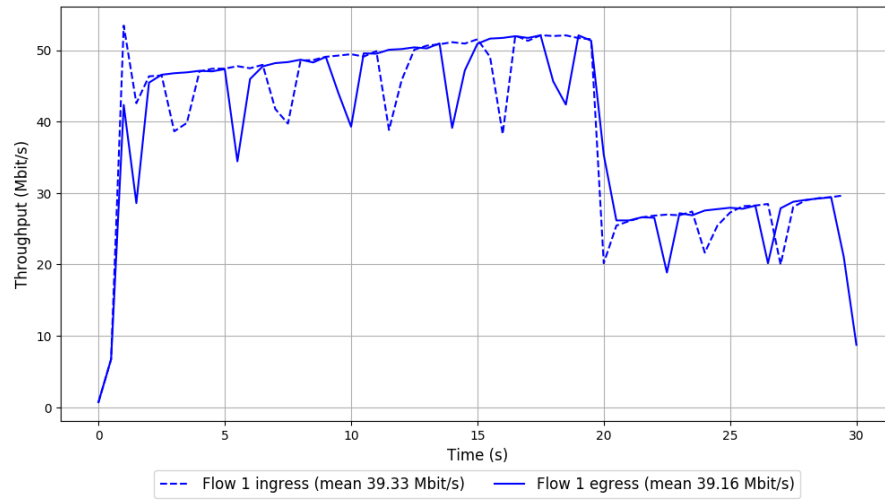
-- Flow 1:

Average throughput: 39.16 Mbit/s

95th percentile per-packet one-way delay: 73.570 ms

Loss rate: 0.45%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-25 20:21:30

End at: 2018-01-25 20:22:00

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.80 Mbit/s

95th percentile per-packet one-way delay: 75.385 ms

Loss rate: 0.00%

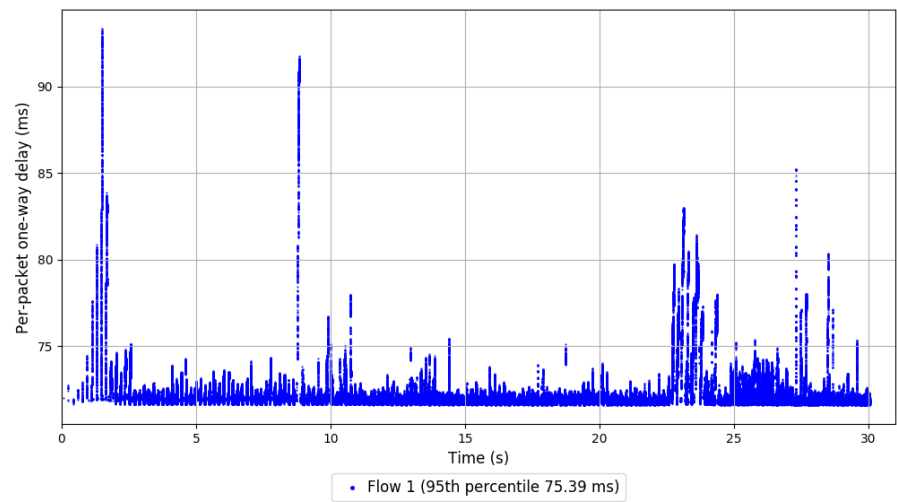
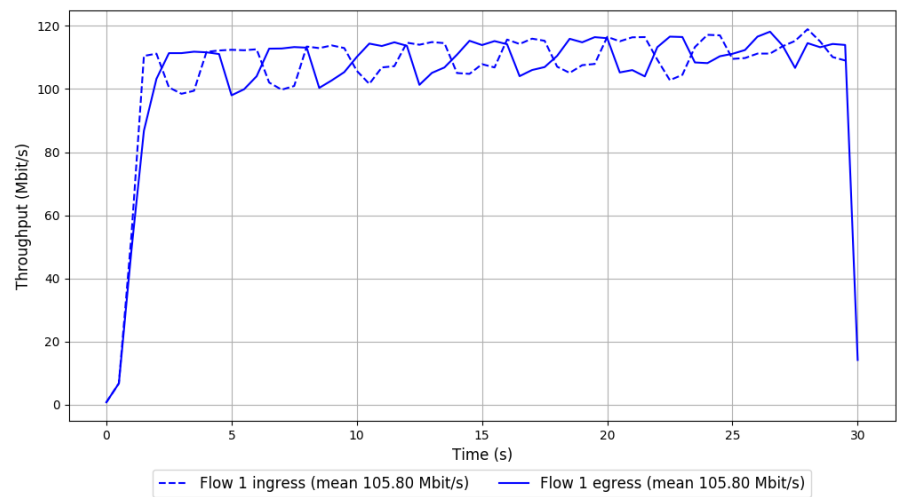
-- Flow 1:

Average throughput: 105.80 Mbit/s

95th percentile per-packet one-way delay: 75.385 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-25 18:28:18

End at: 2018-01-25 18:28:48

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.88 Mbit/s

95th percentile per-packet one-way delay: 89.459 ms

Loss rate: 0.10%

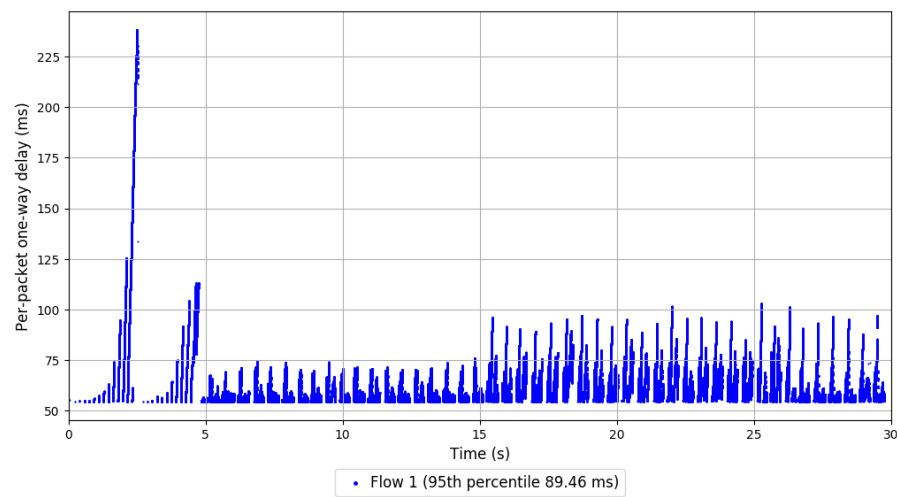
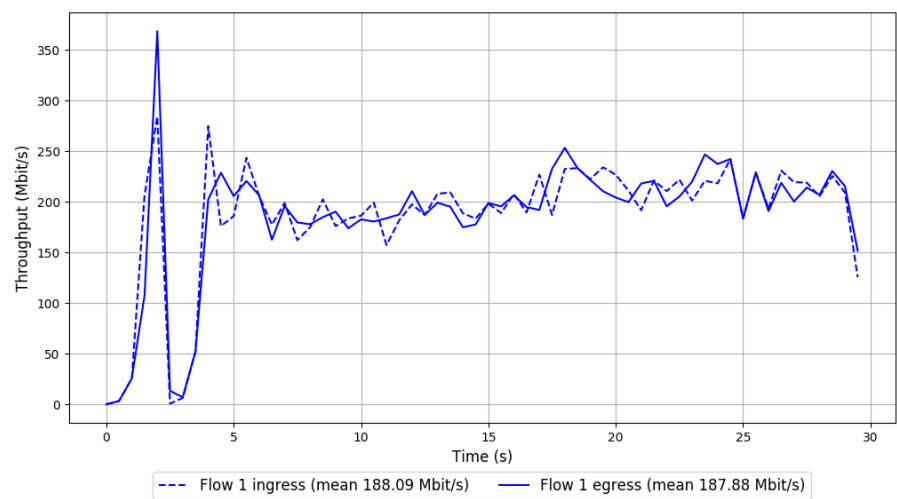
-- Flow 1:

Average throughput: 187.88 Mbit/s

95th percentile per-packet one-way delay: 89.459 ms

Loss rate: 0.10%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-25 18:40:47

End at: 2018-01-25 18:41:17

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.15 Mbit/s

95th percentile per-packet one-way delay: 137.475 ms

Loss rate: 1.25%

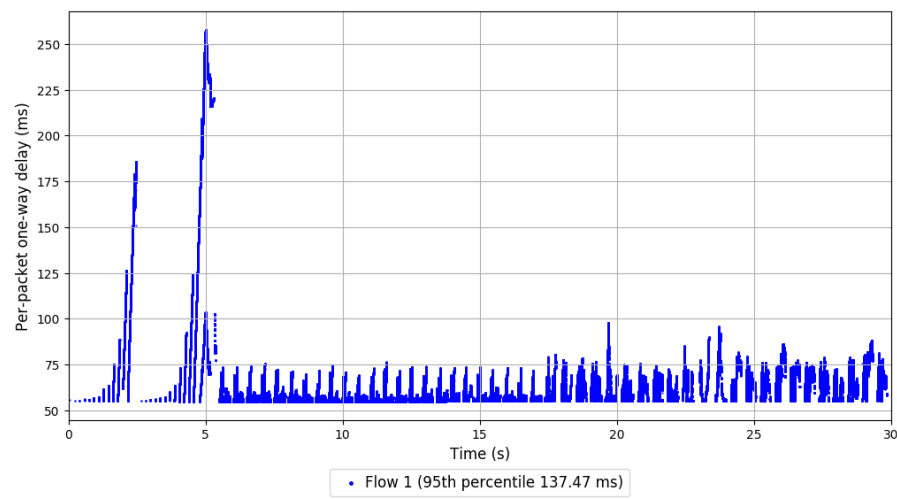
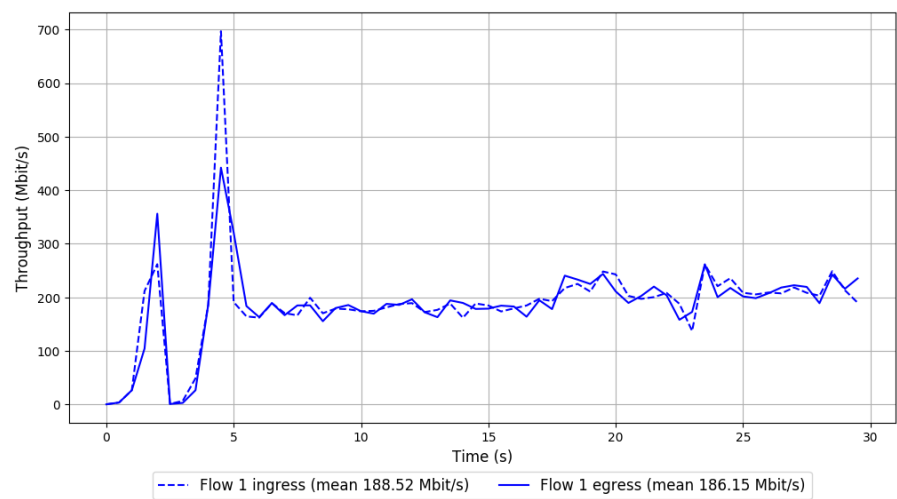
-- Flow 1:

Average throughput: 186.15 Mbit/s

95th percentile per-packet one-way delay: 137.475 ms

Loss rate: 1.25%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-25 18:53:30

End at: 2018-01-25 18:54:00

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.55 Mbit/s

95th percentile per-packet one-way delay: 131.304 ms

Loss rate: 1.20%

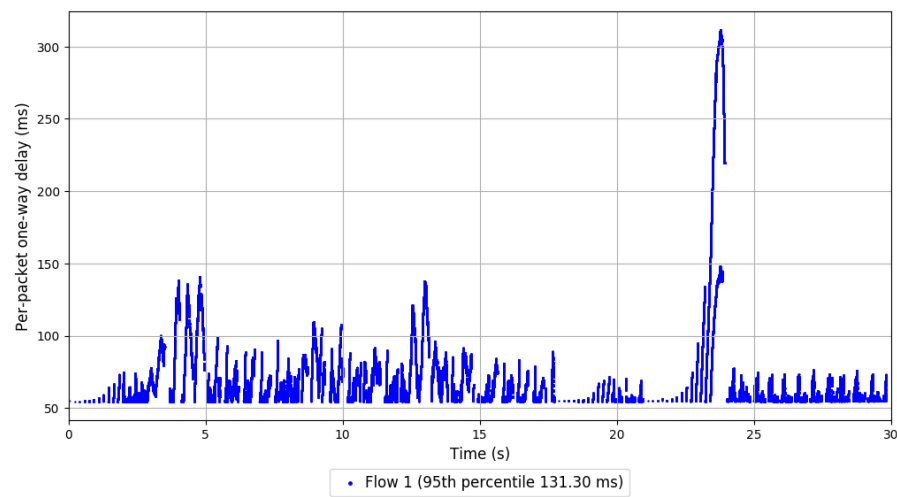
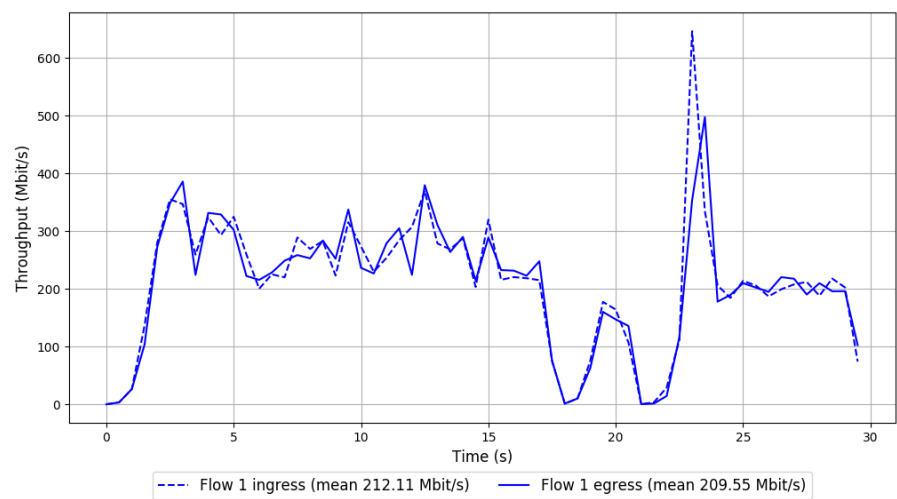
-- Flow 1:

Average throughput: 209.55 Mbit/s

95th percentile per-packet one-way delay: 131.304 ms

Loss rate: 1.20%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-25 19:05:54

End at: 2018-01-25 19:06:24

Below is generated by plot.py at 2018-01-25 21:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.06 Mbit/s

95th percentile per-packet one-way delay: 151.208 ms

Loss rate: 1.21%

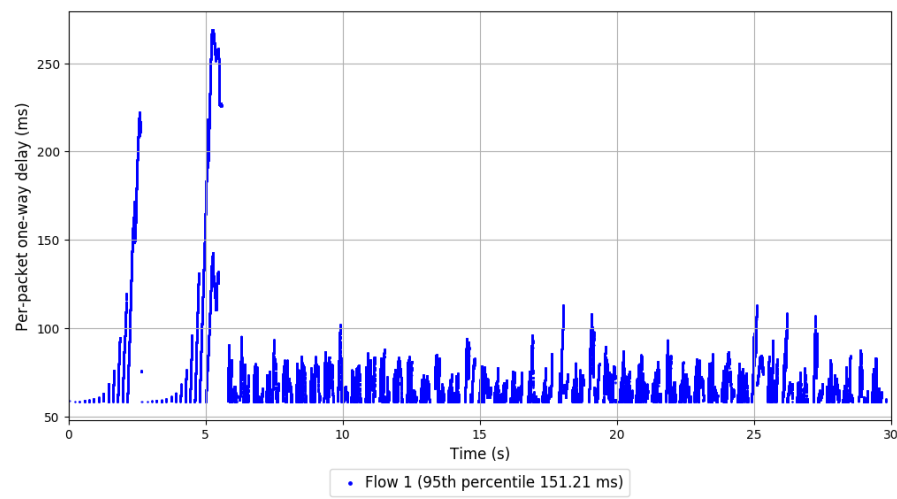
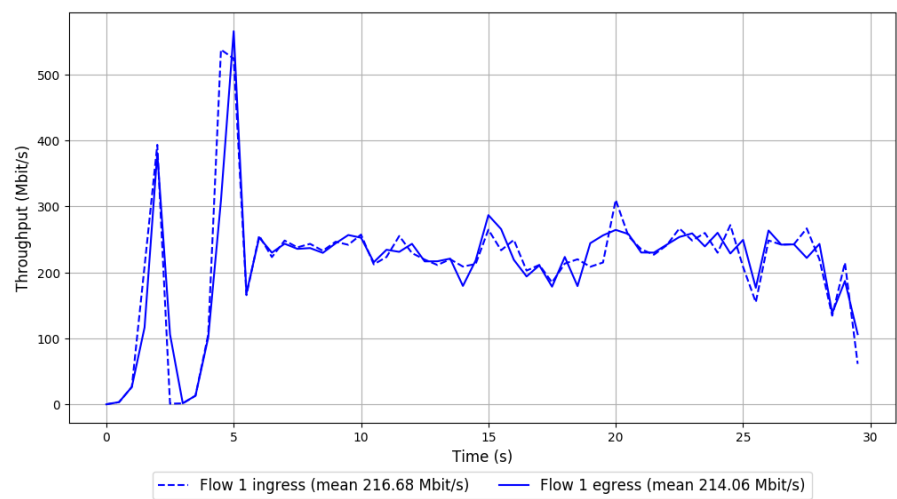
-- Flow 1:

Average throughput: 214.06 Mbit/s

95th percentile per-packet one-way delay: 151.208 ms

Loss rate: 1.21%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-25 19:18:27

End at: 2018-01-25 19:18:57

Below is generated by plot.py at 2018-01-25 21:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.98 Mbit/s

95th percentile per-packet one-way delay: 163.683 ms

Loss rate: 1.74%

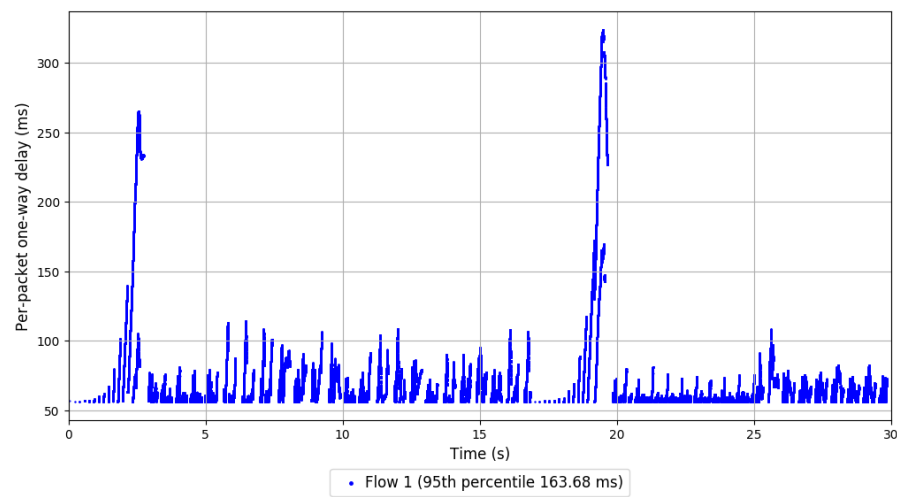
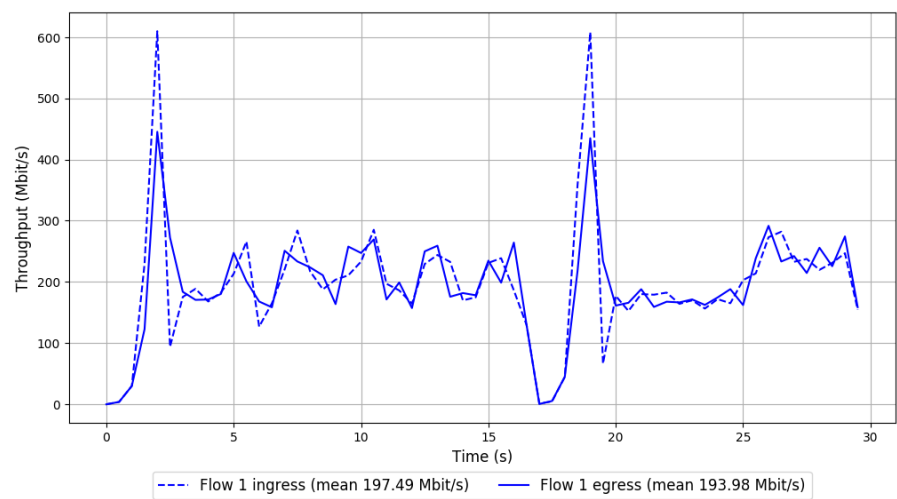
-- Flow 1:

Average throughput: 193.98 Mbit/s

95th percentile per-packet one-way delay: 163.683 ms

Loss rate: 1.74%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-25 19:31:11

End at: 2018-01-25 19:31:41

Below is generated by plot.py at 2018-01-25 21:43:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.03 Mbit/s

95th percentile per-packet one-way delay: 93.078 ms

Loss rate: 0.43%

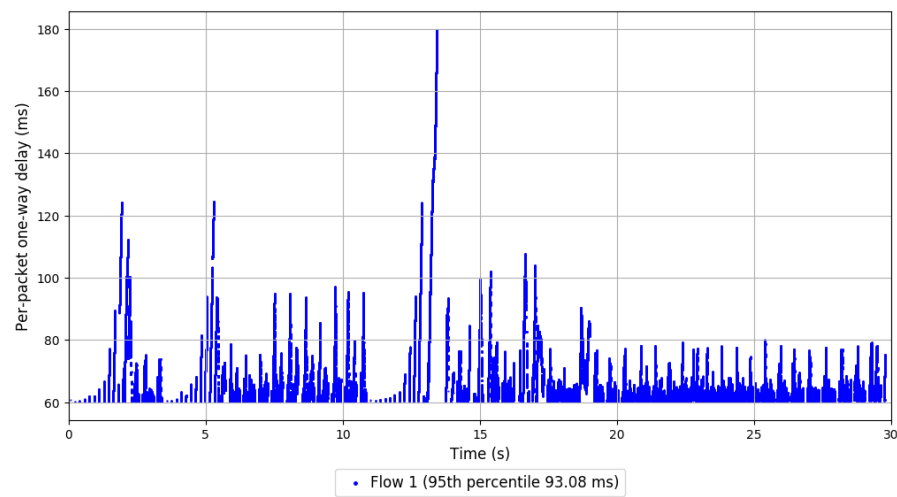
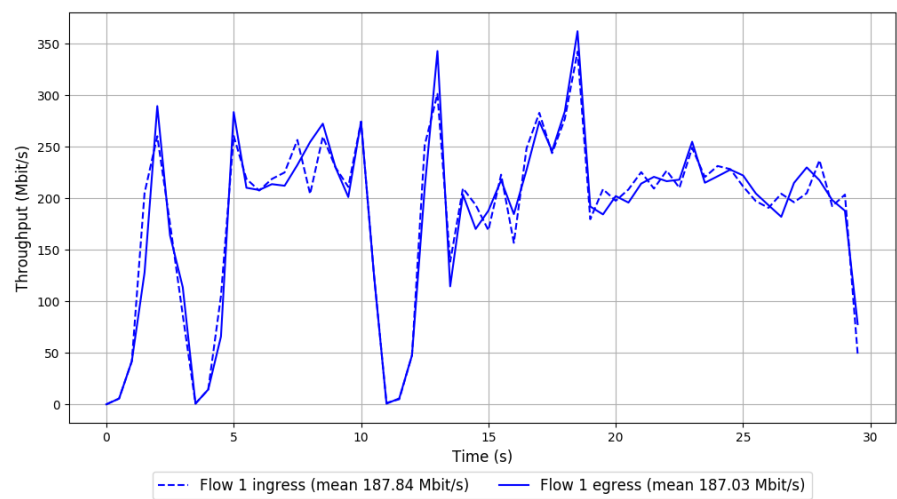
-- Flow 1:

Average throughput: 187.03 Mbit/s

95th percentile per-packet one-way delay: 93.078 ms

Loss rate: 0.43%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-25 19:44:01

End at: 2018-01-25 19:44:31

Below is generated by plot.py at 2018-01-25 21:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.72 Mbit/s

95th percentile per-packet one-way delay: 104.943 ms

Loss rate: 0.11%

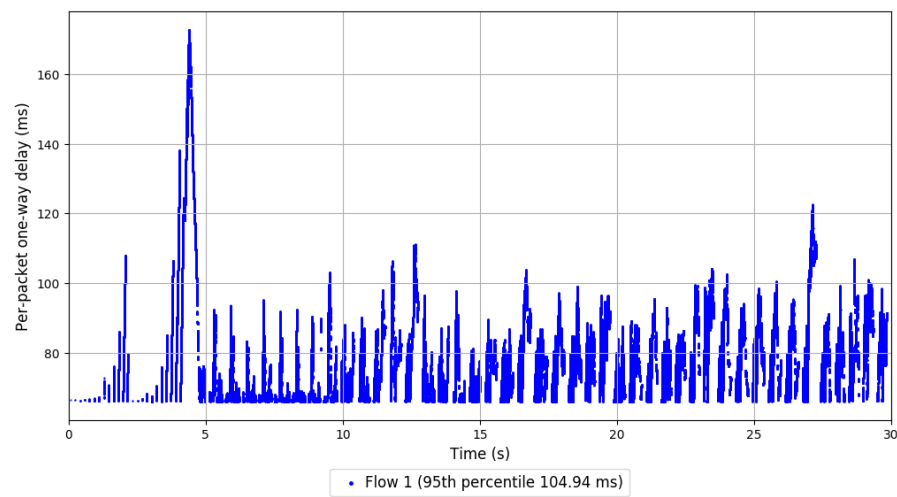
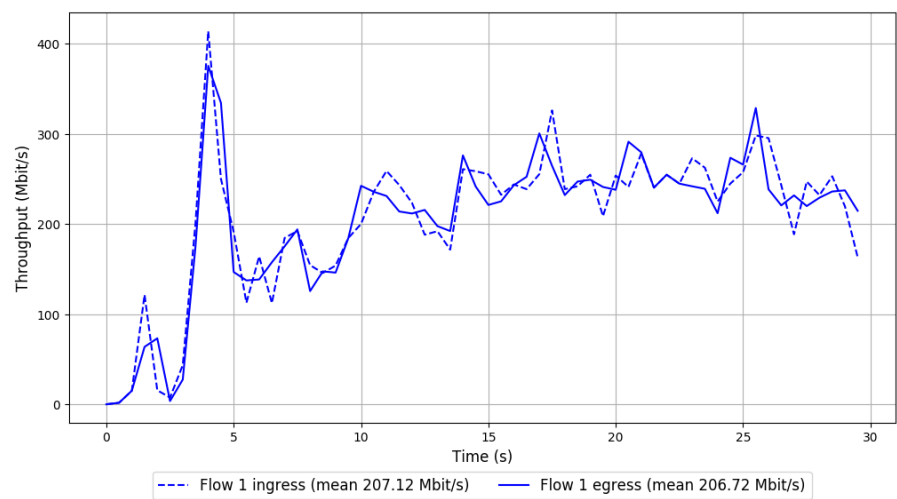
-- Flow 1:

Average throughput: 206.72 Mbit/s

95th percentile per-packet one-way delay: 104.943 ms

Loss rate: 0.11%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-25 19:56:38

End at: 2018-01-25 19:57:08

Below is generated by plot.py at 2018-01-25 21:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.55 Mbit/s

95th percentile per-packet one-way delay: 118.361 ms

Loss rate: 1.10%

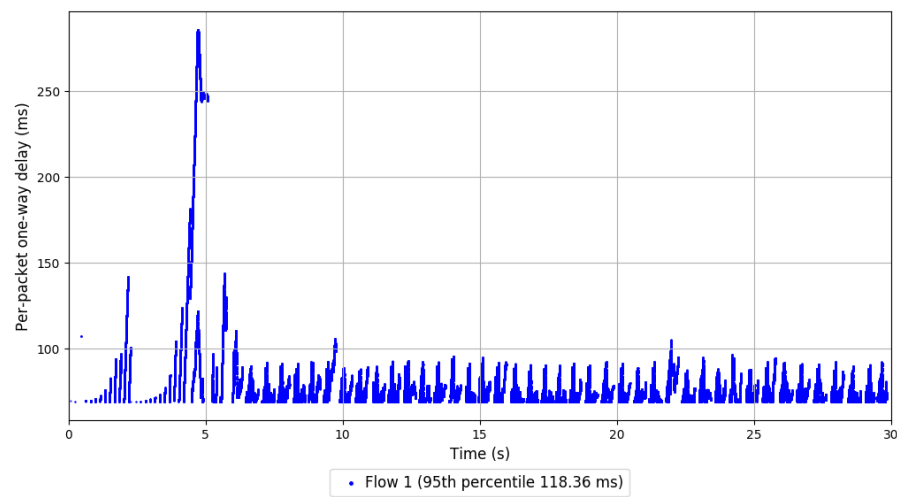
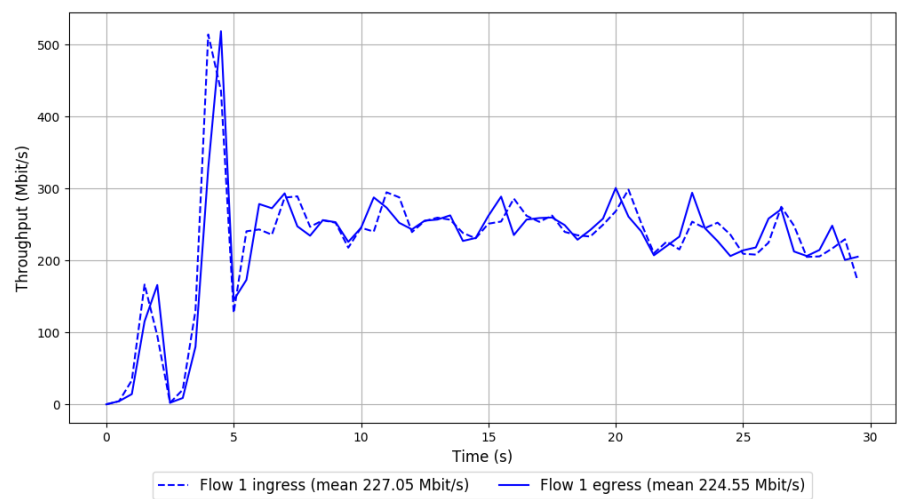
-- Flow 1:

Average throughput: 224.55 Mbit/s

95th percentile per-packet one-way delay: 118.361 ms

Loss rate: 1.10%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-25 20:09:28

End at: 2018-01-25 20:09:58

Below is generated by plot.py at 2018-01-25 21:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.15 Mbit/s

95th percentile per-packet one-way delay: 121.209 ms

Loss rate: 0.47%

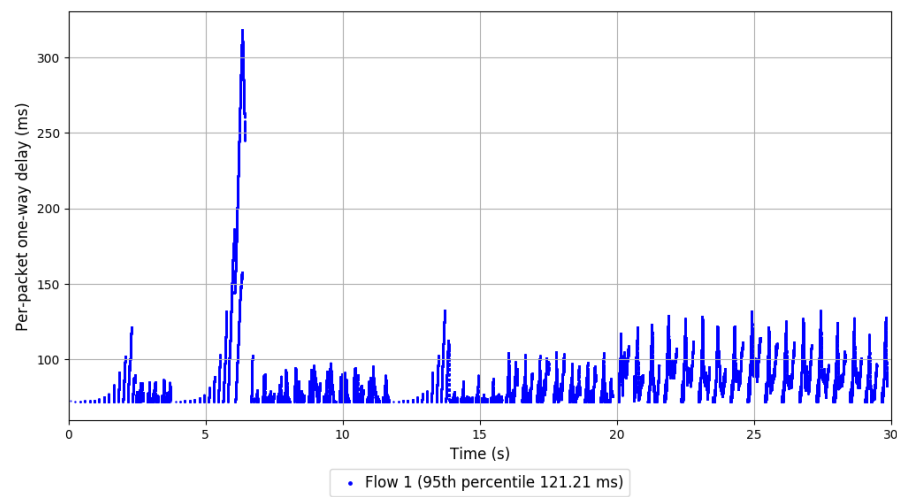
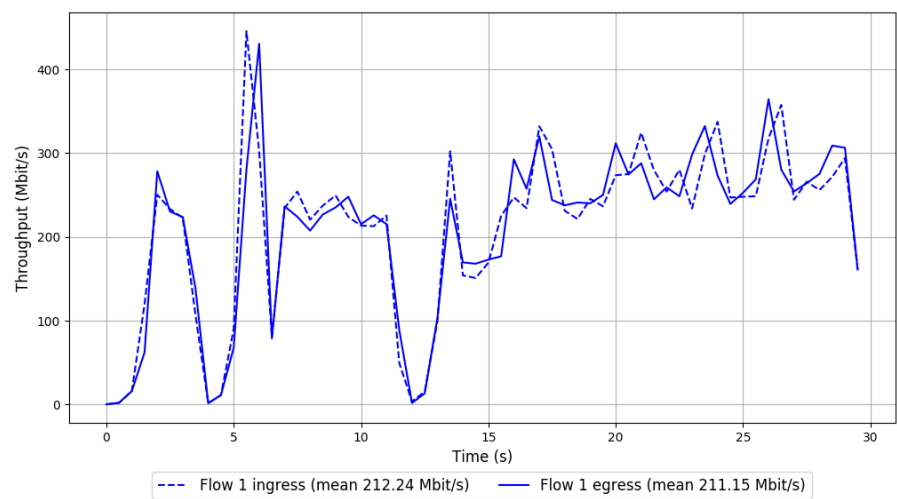
-- Flow 1:

Average throughput: 211.15 Mbit/s

95th percentile per-packet one-way delay: 121.209 ms

Loss rate: 0.47%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-25 20:22:16

End at: 2018-01-25 20:22:46

Below is generated by plot.py at 2018-01-25 21:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.90 Mbit/s

95th percentile per-packet one-way delay: 227.174 ms

Loss rate: 1.41%

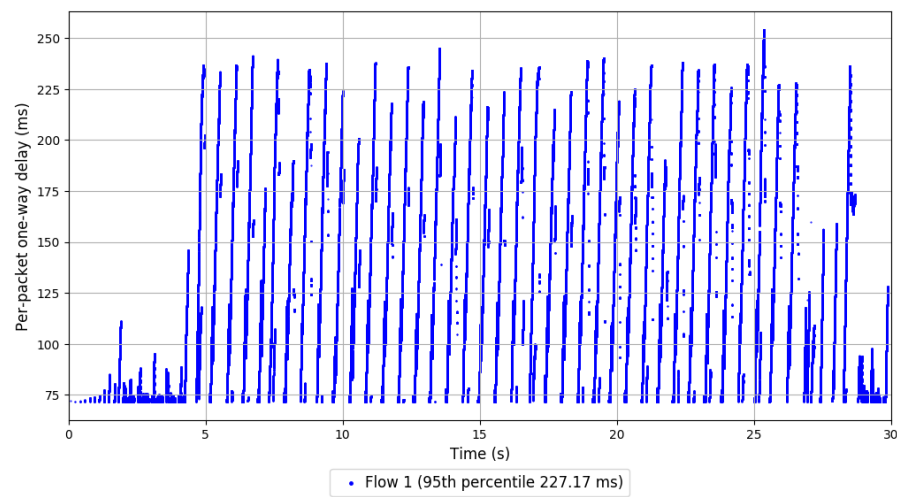
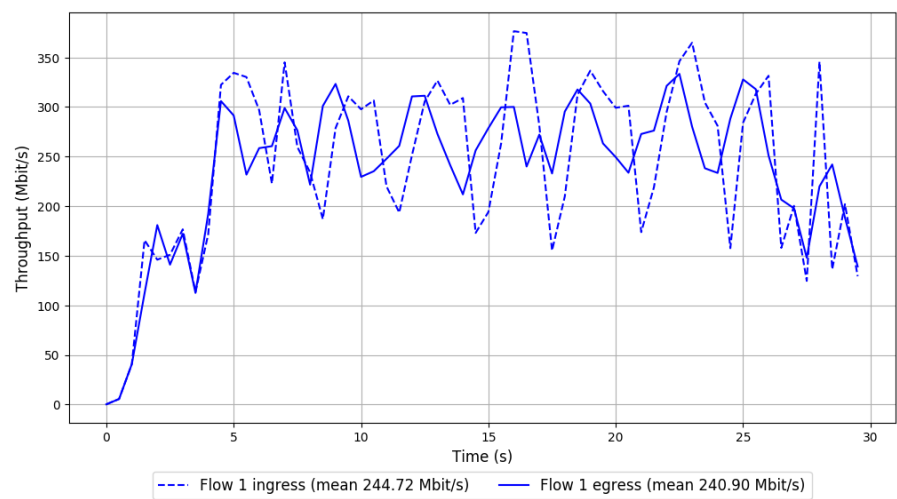
-- Flow 1:

Average throughput: 240.90 Mbit/s

95th percentile per-packet one-way delay: 227.174 ms

Loss rate: 1.41%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-25 18:29:12

End at: 2018-01-25 18:29:42

Below is generated by plot.py at 2018-01-25 21:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.23 Mbit/s

95th percentile per-packet one-way delay: 55.011 ms

Loss rate: 0.00%

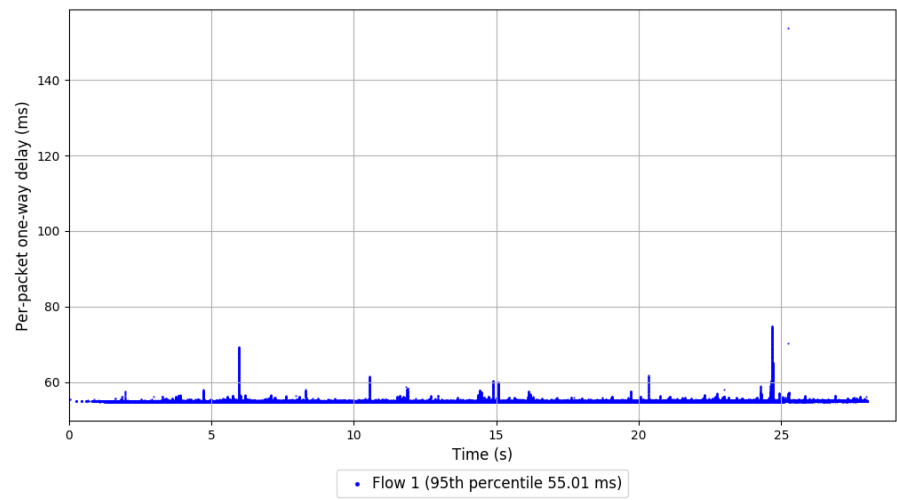
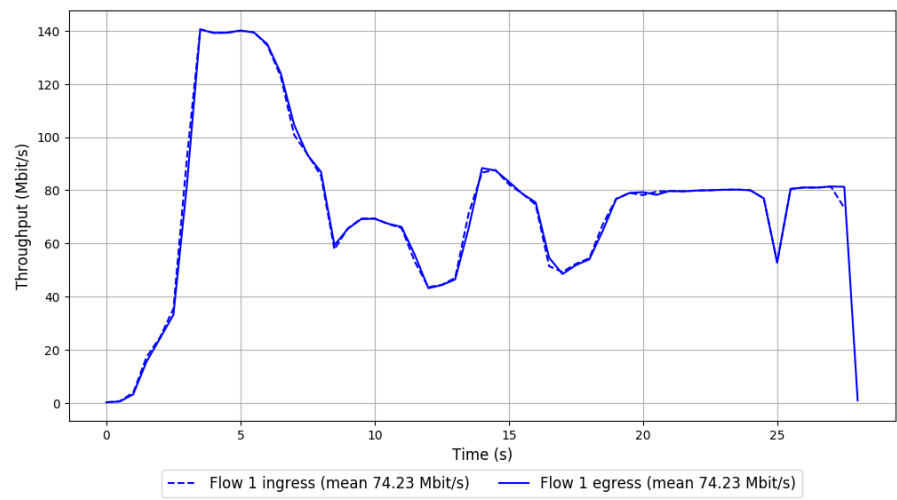
-- Flow 1:

Average throughput: 74.23 Mbit/s

95th percentile per-packet one-way delay: 55.011 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-25 18:41:41

End at: 2018-01-25 18:42:11

Below is generated by plot.py at 2018-01-25 21:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 55.126 ms

Loss rate: 0.03%

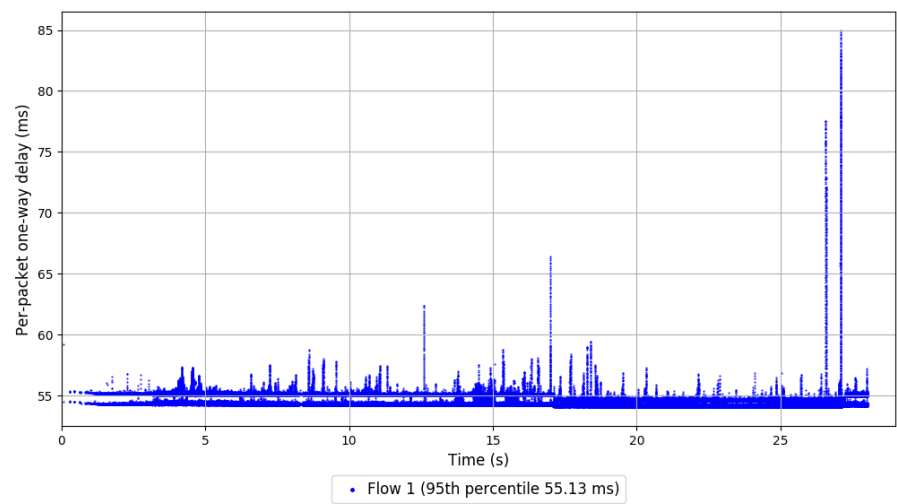
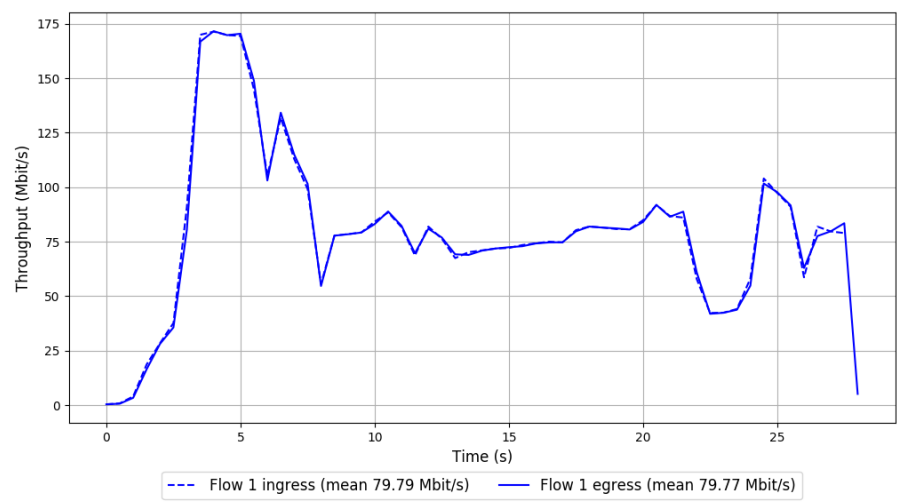
-- Flow 1:

Average throughput: 79.77 Mbit/s

95th percentile per-packet one-way delay: 55.126 ms

Loss rate: 0.03%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-25 18:54:27

End at: 2018-01-25 18:54:57

Below is generated by plot.py at 2018-01-25 21:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.41 Mbit/s

95th percentile per-packet one-way delay: 82.536 ms

Loss rate: 0.67%

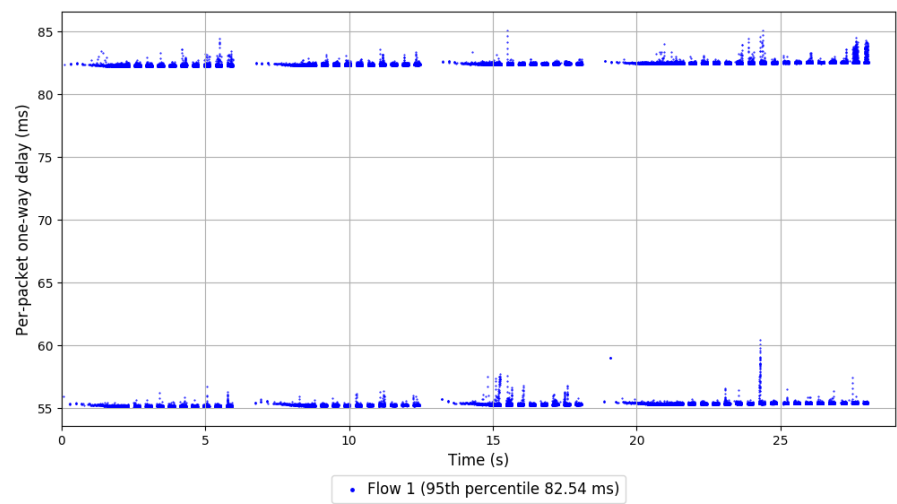
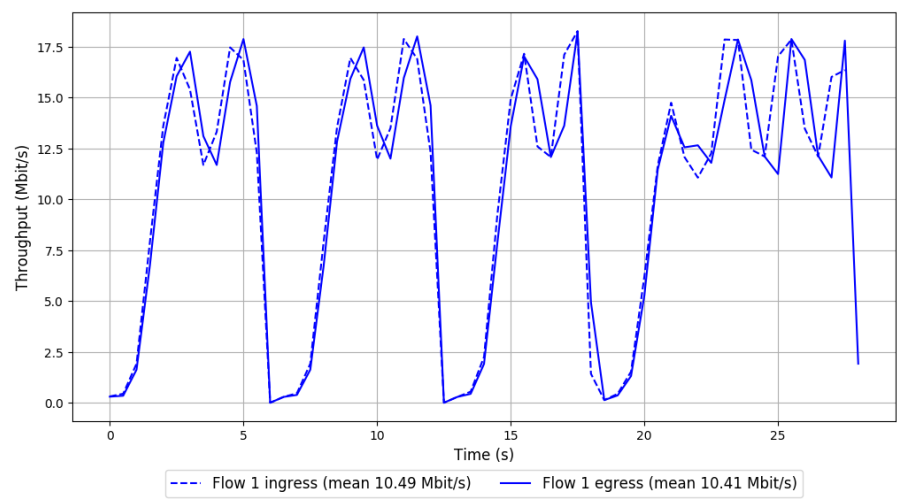
-- Flow 1:

Average throughput: 10.41 Mbit/s

95th percentile per-packet one-way delay: 82.536 ms

Loss rate: 0.67%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-25 19:06:51

End at: 2018-01-25 19:07:21

Below is generated by plot.py at 2018-01-25 21:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.50 Mbit/s

95th percentile per-packet one-way delay: 58.555 ms

Loss rate: 0.00%

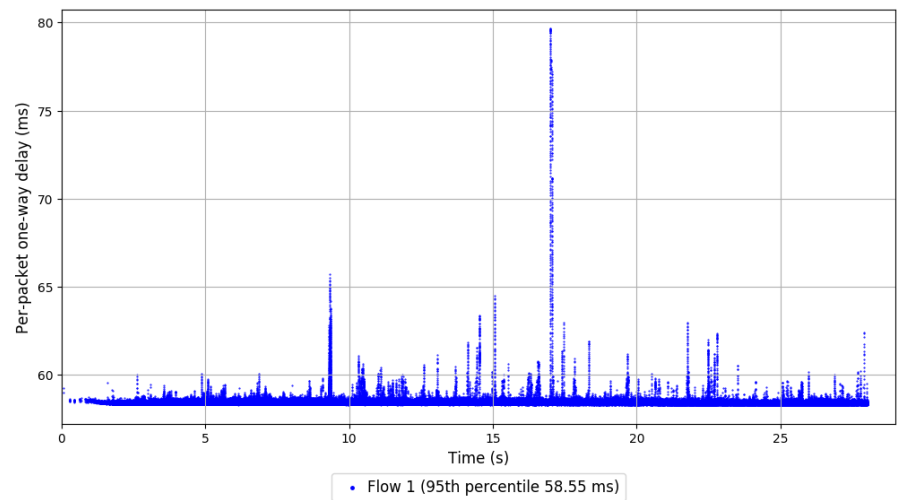
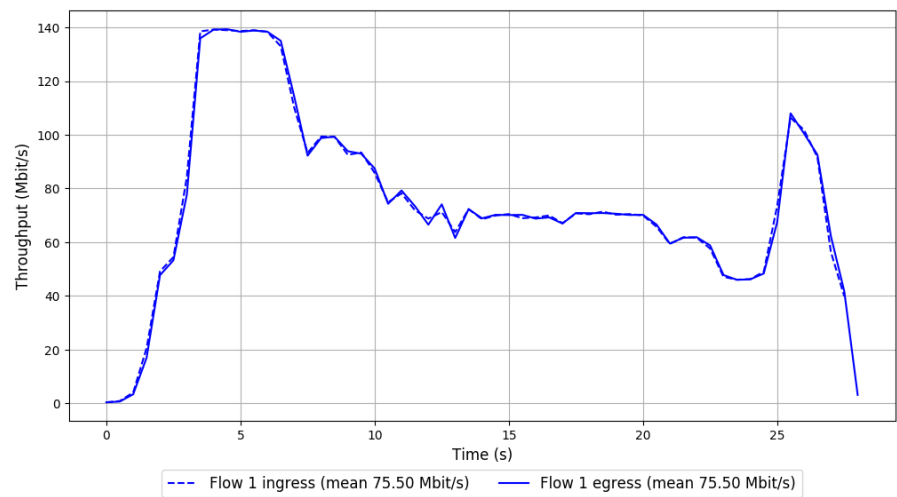
-- Flow 1:

Average throughput: 75.50 Mbit/s

95th percentile per-packet one-way delay: 58.555 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-25 19:19:22

End at: 2018-01-25 19:19:52

Below is generated by plot.py at 2018-01-25 21:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 83.406 ms

Loss rate: 0.00%

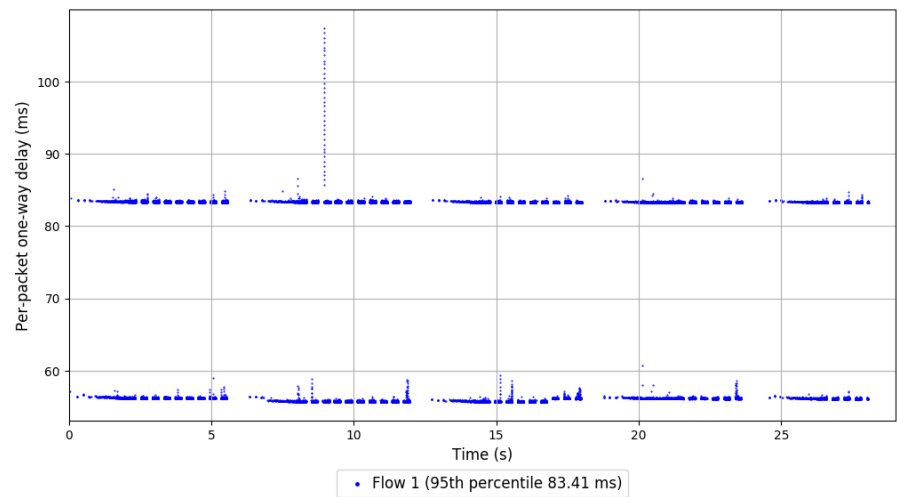
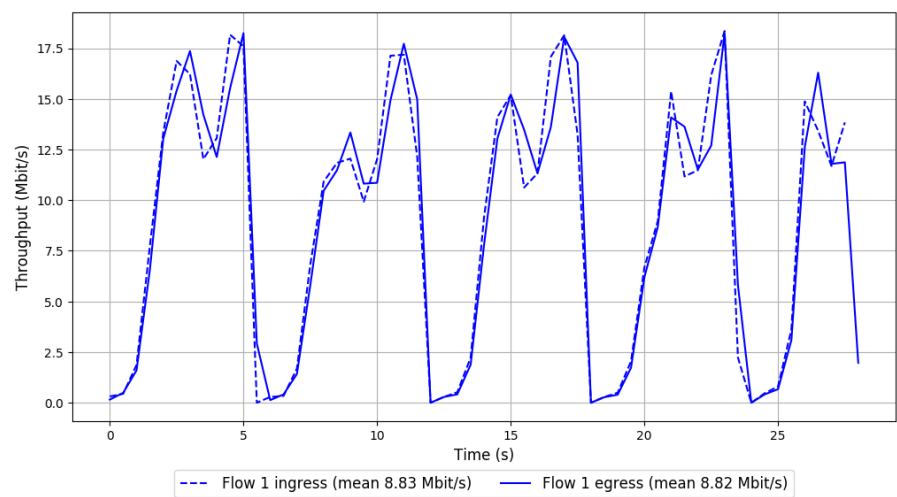
-- Flow 1:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 83.406 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-25 19:32:05

End at: 2018-01-25 19:32:35

Below is generated by plot.py at 2018-01-25 21:46:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.16 Mbit/s

95th percentile per-packet one-way delay: 61.250 ms

Loss rate: 0.00%

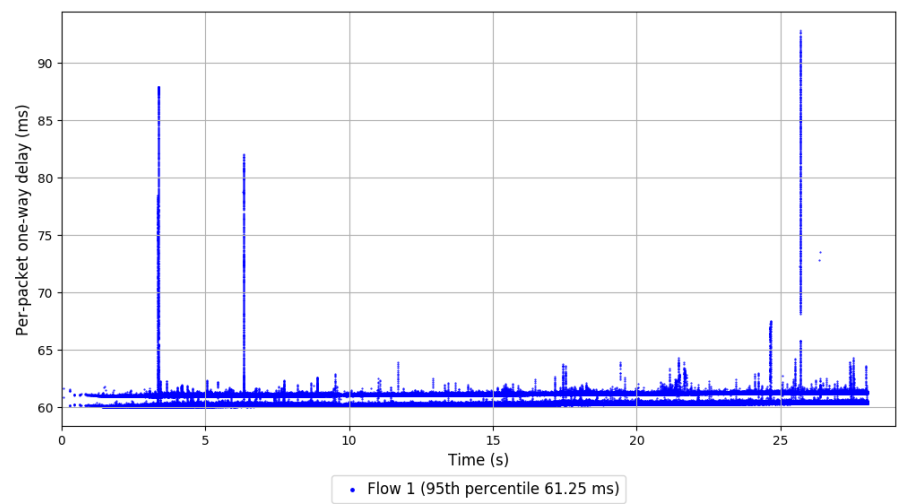
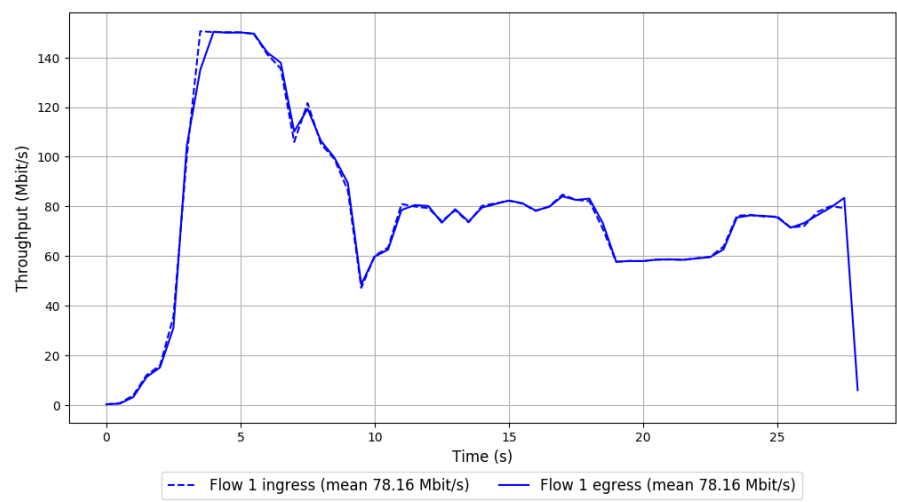
-- Flow 1:

Average throughput: 78.16 Mbit/s

95th percentile per-packet one-way delay: 61.250 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-25 19:44:56

End at: 2018-01-25 19:45:26

Below is generated by plot.py at 2018-01-25 21:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 66.331 ms

Loss rate: 0.00%

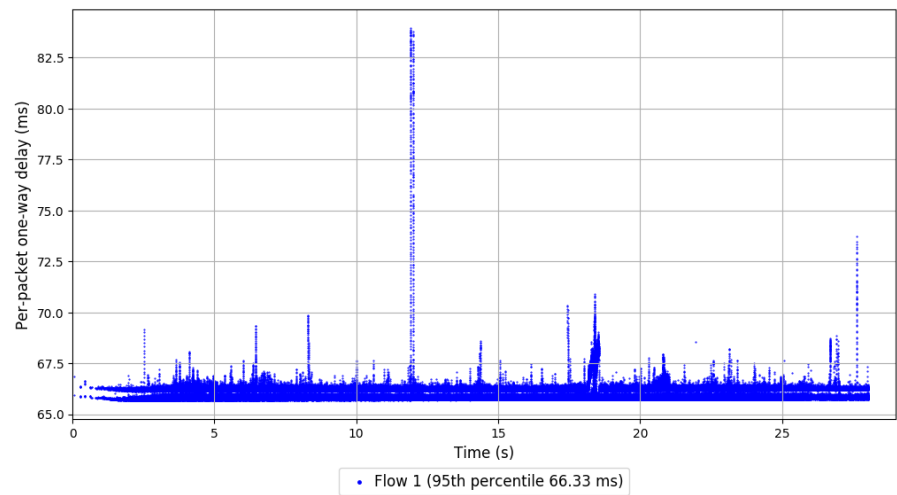
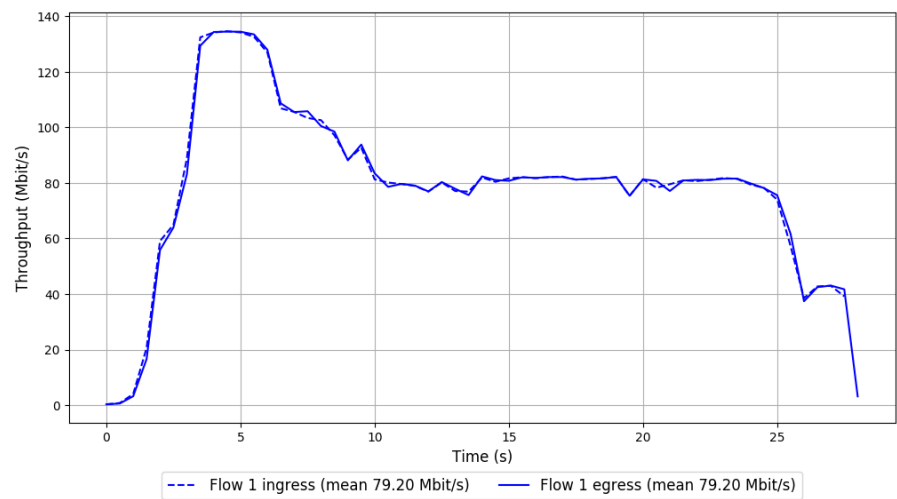
-- Flow 1:

Average throughput: 79.20 Mbit/s

95th percentile per-packet one-way delay: 66.331 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-25 19:57:36

End at: 2018-01-25 19:58:06

Below is generated by plot.py at 2018-01-25 21:46:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.09 Mbit/s

95th percentile per-packet one-way delay: 96.727 ms

Loss rate: 0.33%

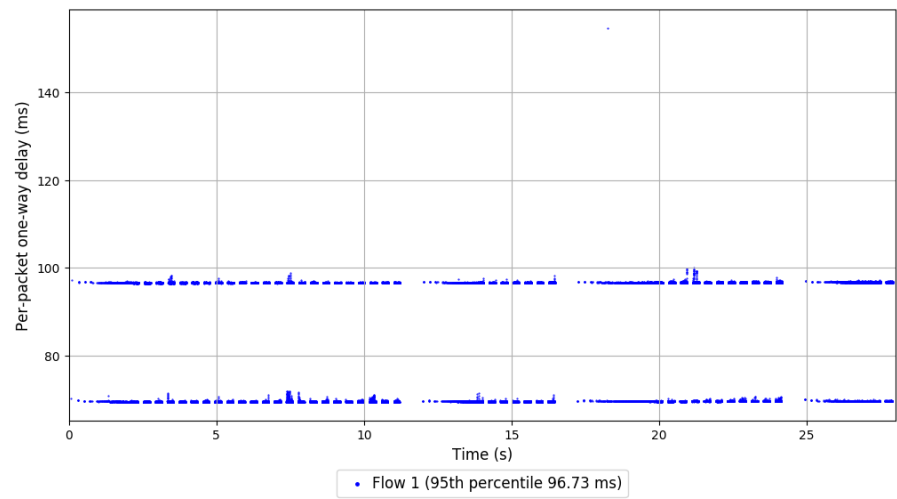
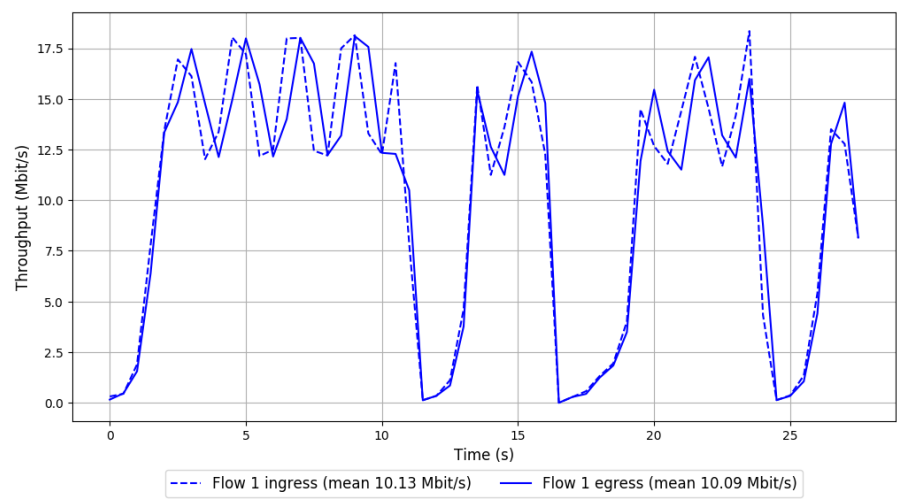
-- Flow 1:

Average throughput: 10.09 Mbit/s

95th percentile per-packet one-way delay: 96.727 ms

Loss rate: 0.33%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-25 20:10:24

End at: 2018-01-25 20:10:54

Below is generated by plot.py at 2018-01-25 21:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.07 Mbit/s

95th percentile per-packet one-way delay: 72.170 ms

Loss rate: 0.00%

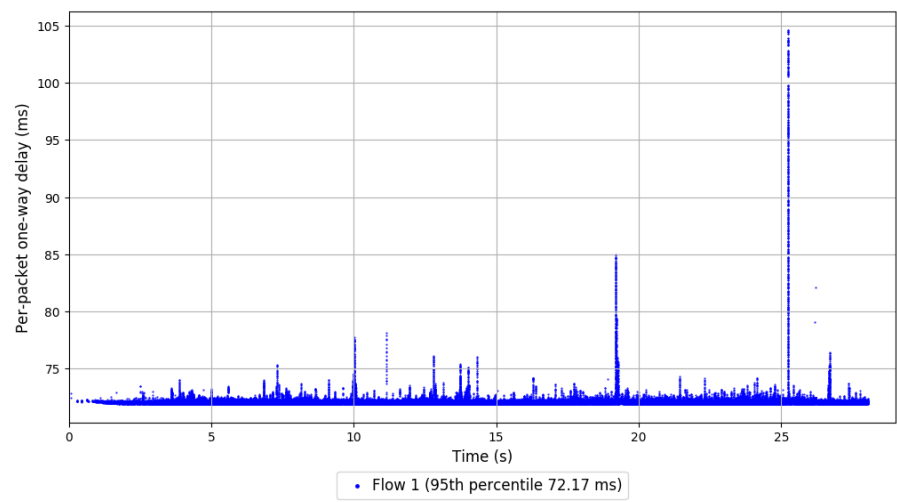
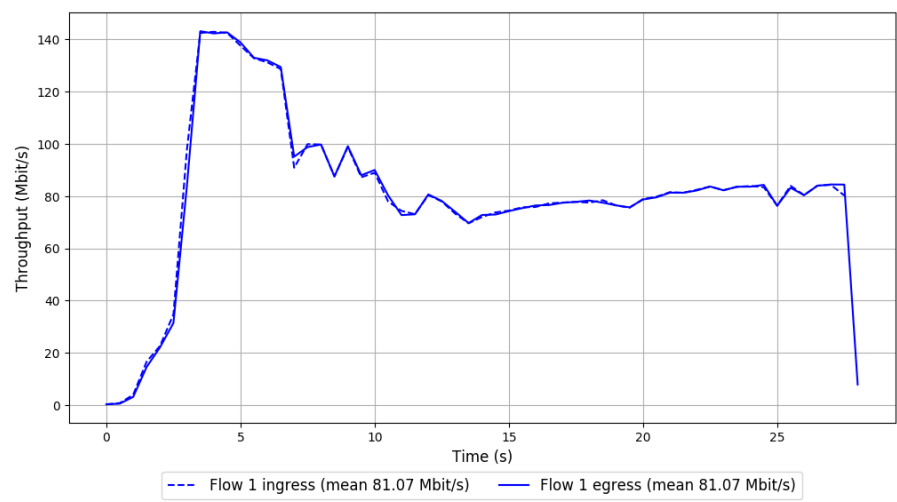
-- Flow 1:

Average throughput: 81.07 Mbit/s

95th percentile per-packet one-way delay: 72.170 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-25 20:23:13

End at: 2018-01-25 20:23:43

Below is generated by plot.py at 2018-01-25 21:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 71.612 ms

Loss rate: 0.00%

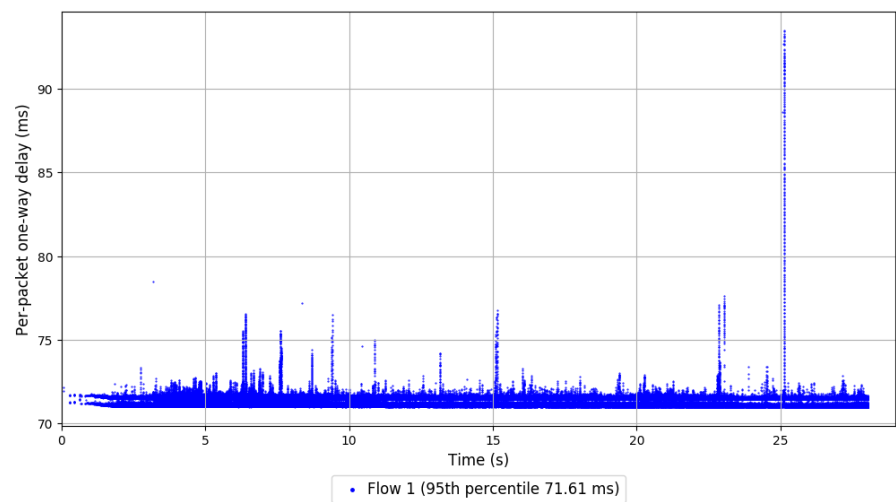
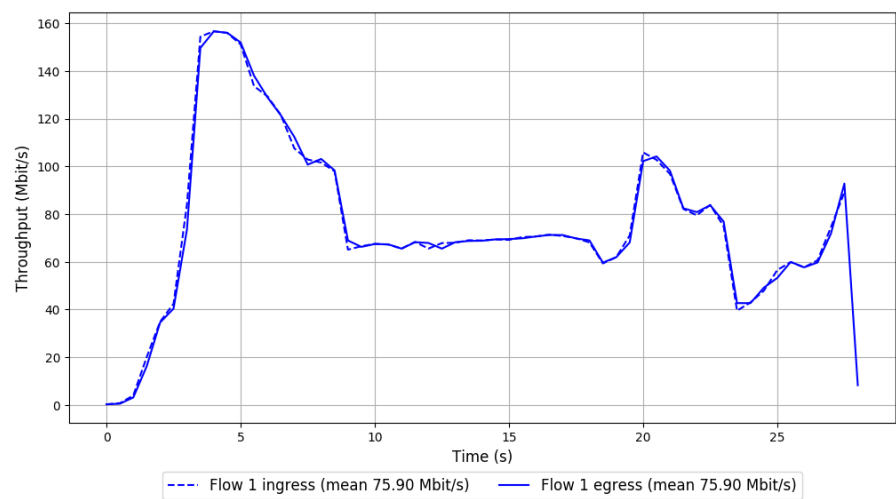
-- Flow 1:

Average throughput: 75.90 Mbit/s

95th percentile per-packet one-way delay: 71.612 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

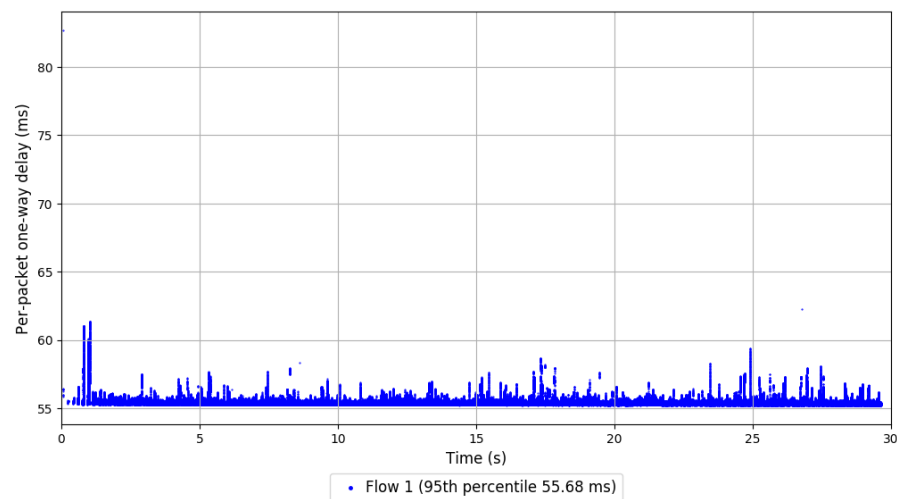
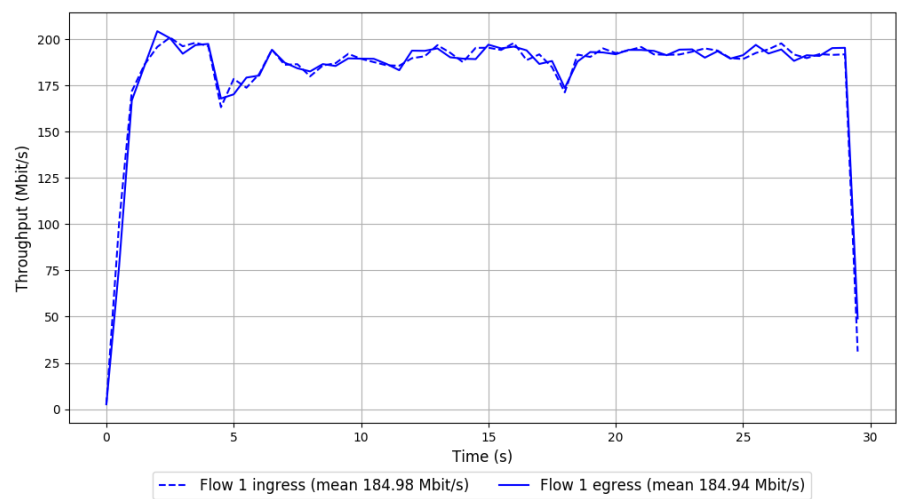


```
Run 1: Statistics of Indigo-2-256

Start at: 2018-01-25 18:35:18
End at: 2018-01-25 18:35:48

# Below is generated by plot.py at 2018-01-25 21:48:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.94 Mbit/s
95th percentile per-packet one-way delay: 55.677 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 184.94 Mbit/s
95th percentile per-packet one-way delay: 55.677 ms
Loss rate: 0.02%
```


Run 1: Report of Indigo-2-256 — Data Link

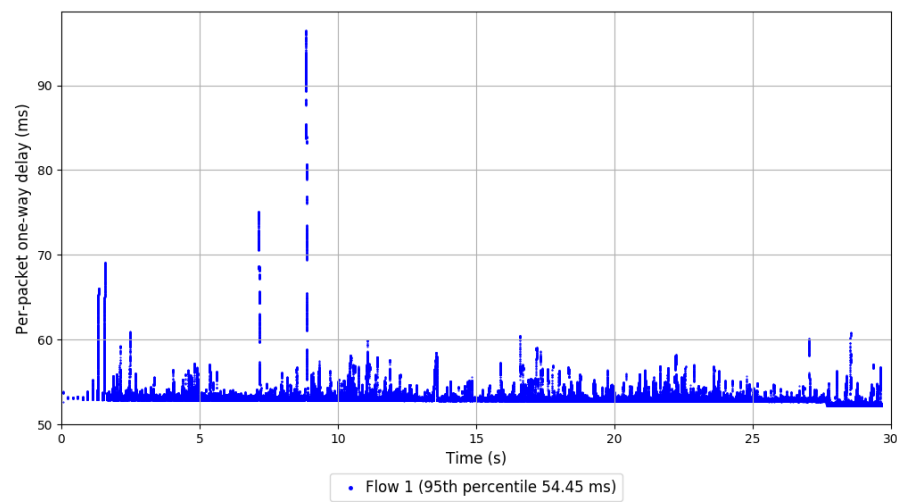
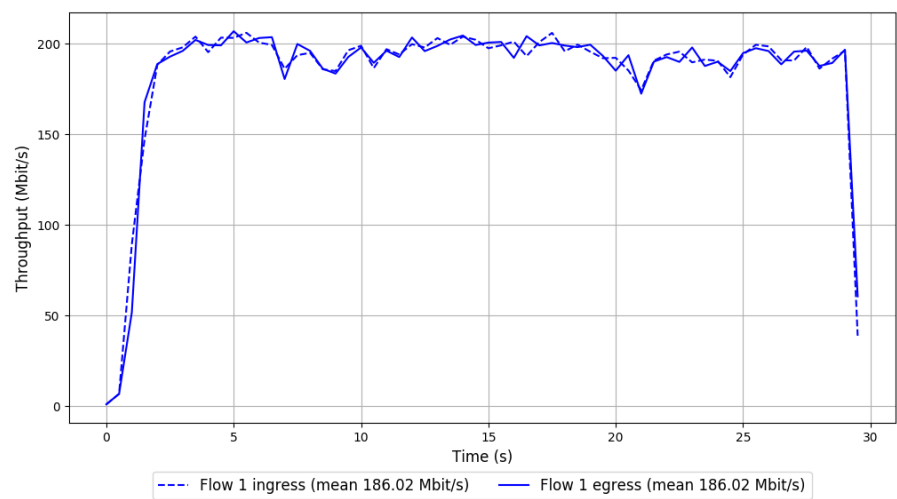


```
Run 2: Statistics of Indigo-2-256

Start at: 2018-01-25 18:48:02
End at: 2018-01-25 18:48:32

# Below is generated by plot.py at 2018-01-25 21:48:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.02 Mbit/s
95th percentile per-packet one-way delay: 54.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.02 Mbit/s
95th percentile per-packet one-way delay: 54.453 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-2-256 — Data Link

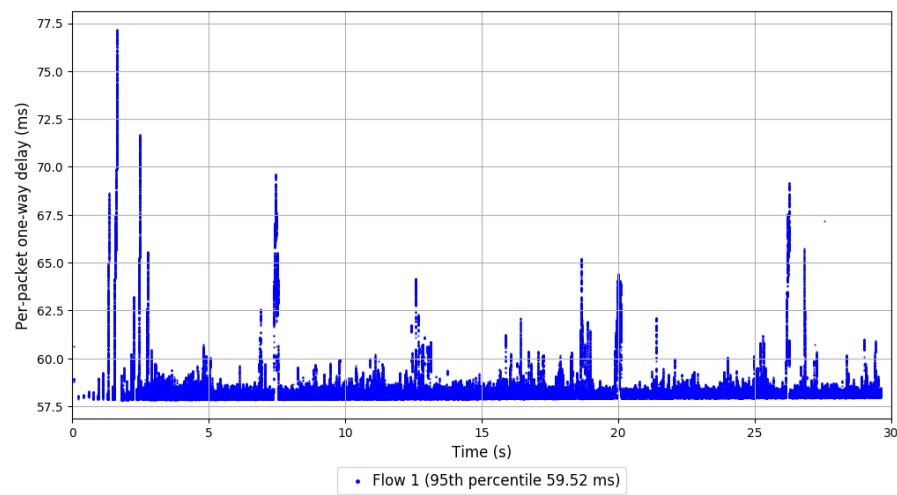
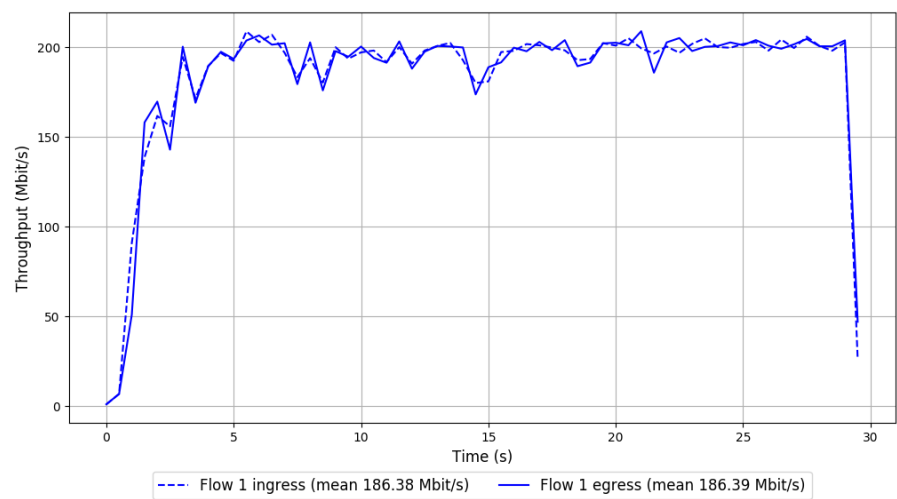


```
Run 3: Statistics of Indigo-2-256

Start at: 2018-01-25 19:00:21
End at: 2018-01-25 19:00:51

# Below is generated by plot.py at 2018-01-25 21:48:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 186.39 Mbit/s
95th percentile per-packet one-way delay: 59.523 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 186.39 Mbit/s
95th percentile per-packet one-way delay: 59.523 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-25 19:12:56

End at: 2018-01-25 19:13:26

Below is generated by plot.py at 2018-01-25 21:49:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.48 Mbit/s

95th percentile per-packet one-way delay: 57.774 ms

Loss rate: 0.00%

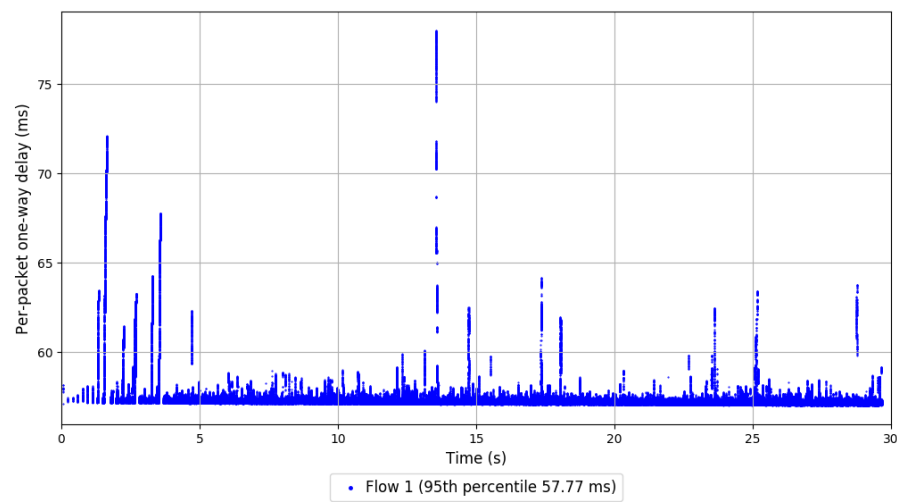
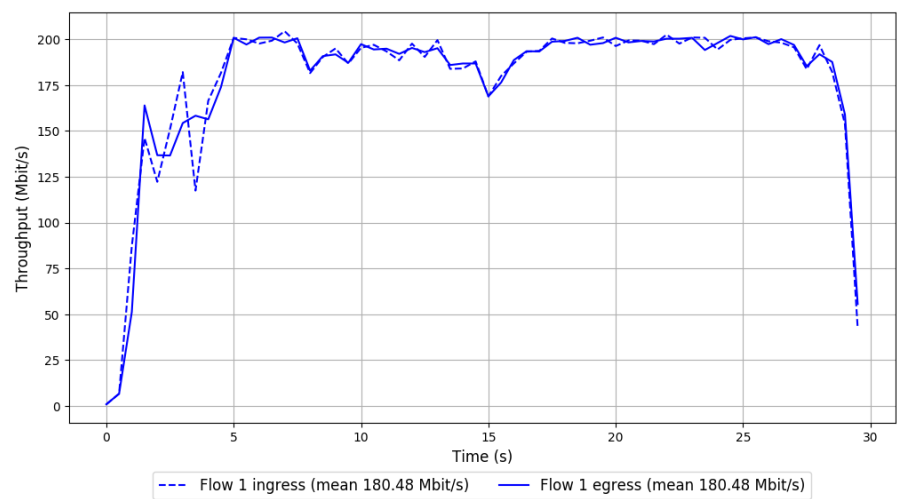
-- Flow 1:

Average throughput: 180.48 Mbit/s

95th percentile per-packet one-way delay: 57.774 ms

Loss rate: 0.00%

Run 4: Report of Indigo-2-256 — Data Link



Run 5: Statistics of Indigo-2-256

Start at: 2018-01-25 19:25:36

End at: 2018-01-25 19:26:06

Below is generated by plot.py at 2018-01-25 21:49:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.98 Mbit/s

95th percentile per-packet one-way delay: 55.753 ms

Loss rate: 0.19%

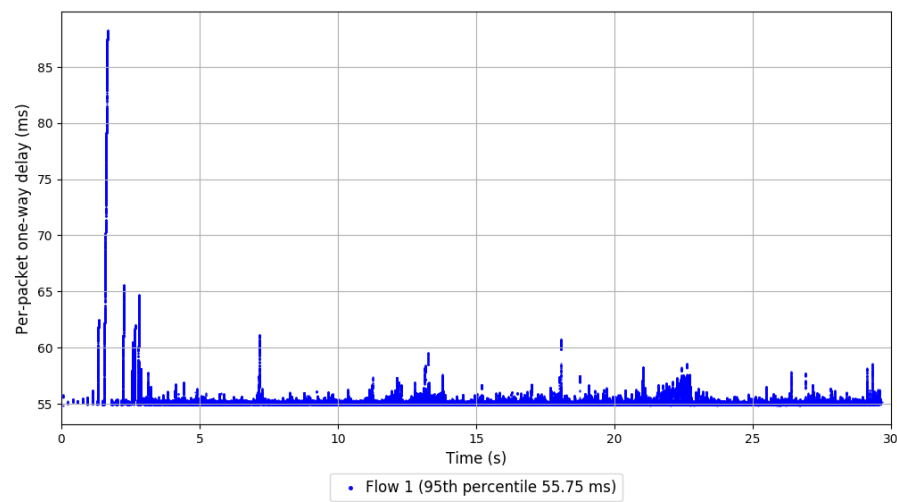
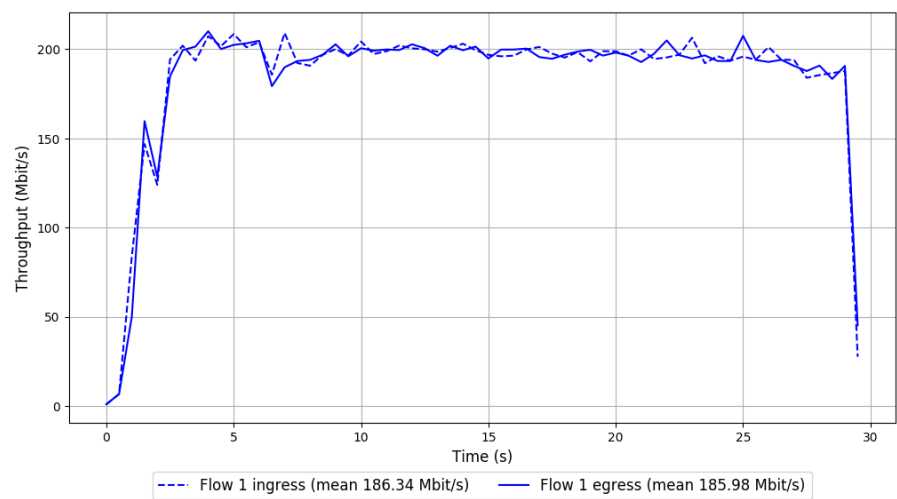
-- Flow 1:

Average throughput: 185.98 Mbit/s

95th percentile per-packet one-way delay: 55.753 ms

Loss rate: 0.19%

Run 5: Report of Indigo-2-256 — Data Link



Run 6: Statistics of Indigo-2-256

Start at: 2018-01-25 19:38:27

End at: 2018-01-25 19:38:57

Below is generated by plot.py at 2018-01-25 21:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.32 Mbit/s

95th percentile per-packet one-way delay: 65.072 ms

Loss rate: 0.00%

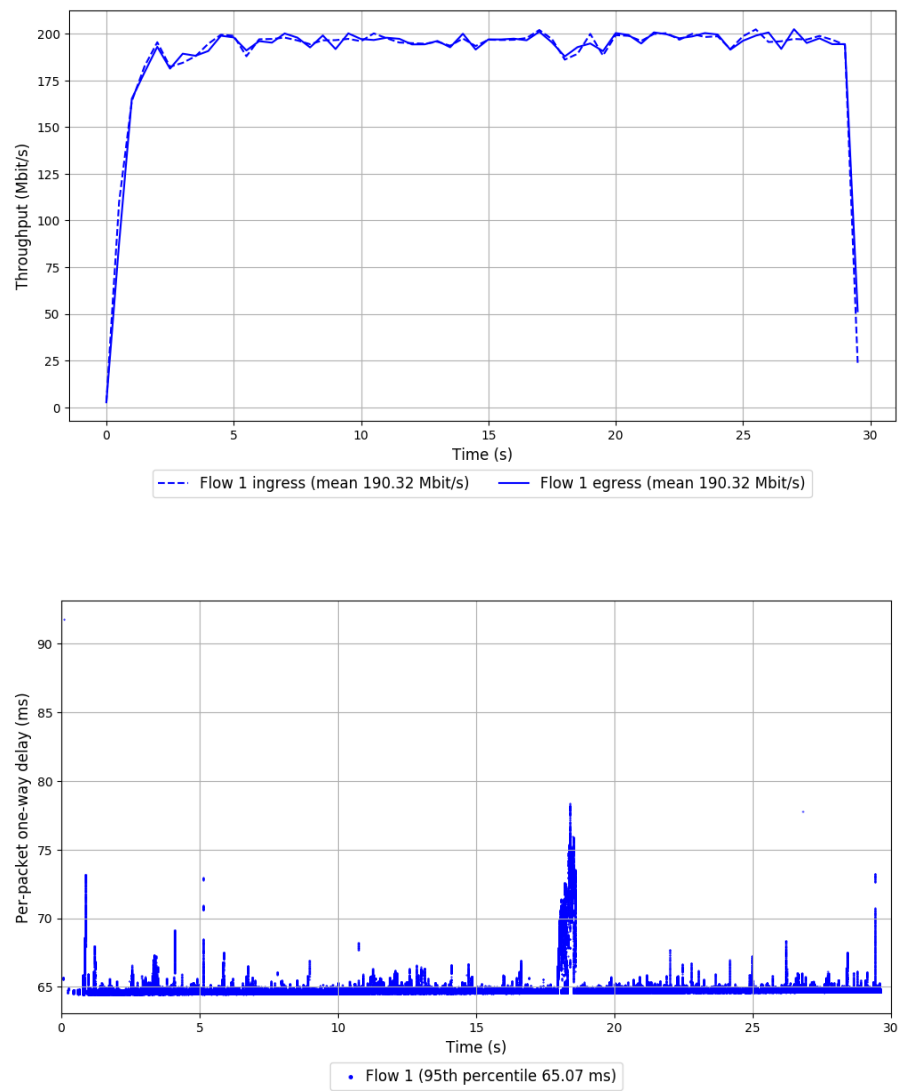
-- Flow 1:

Average throughput: 190.32 Mbit/s

95th percentile per-packet one-way delay: 65.072 ms

Loss rate: 0.00%

Run 6: Report of Indigo-2-256 — Data Link



Run 7: Statistics of Indigo-2-256

Start at: 2018-01-25 19:51:07

End at: 2018-01-25 19:51:37

Below is generated by plot.py at 2018-01-25 21:50:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.08 Mbit/s

95th percentile per-packet one-way delay: 68.064 ms

Loss rate: 0.00%

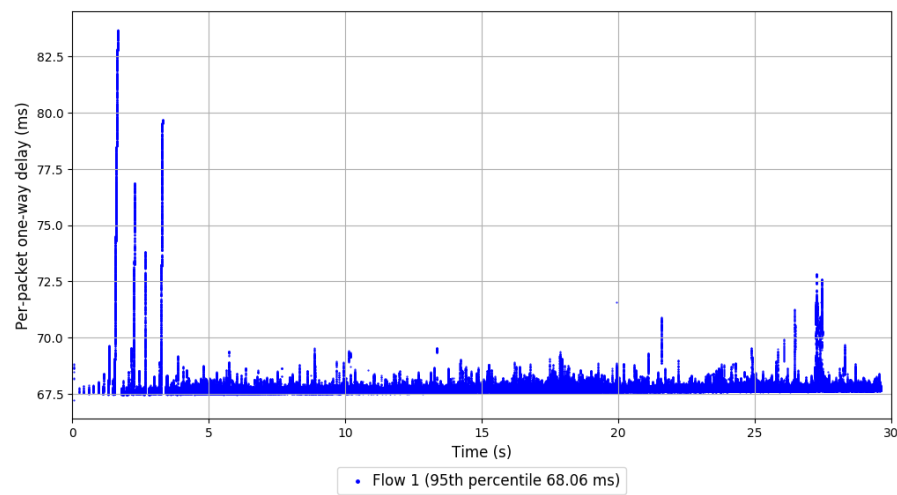
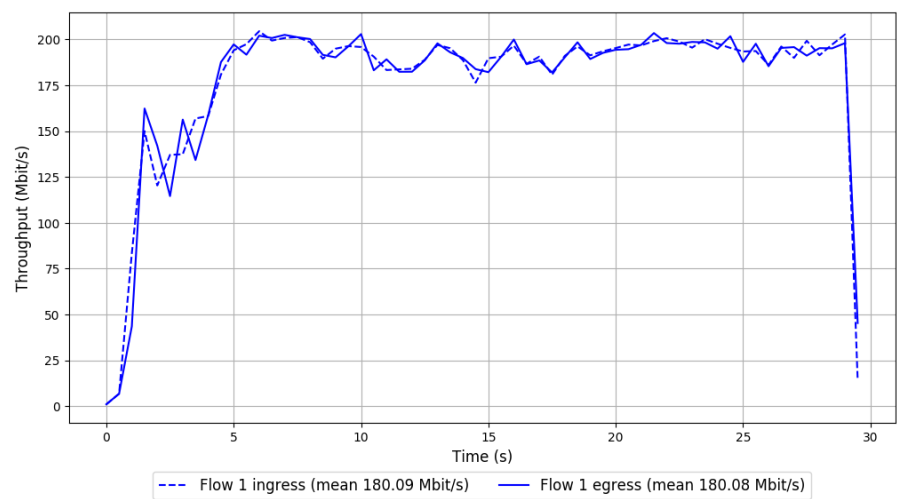
-- Flow 1:

Average throughput: 180.08 Mbit/s

95th percentile per-packet one-way delay: 68.064 ms

Loss rate: 0.00%

Run 7: Report of Indigo-2-256 — Data Link



Run 8: Statistics of Indigo-2-256

Start at: 2018-01-25 20:03:53

End at: 2018-01-25 20:04:23

Below is generated by plot.py at 2018-01-25 21:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.94 Mbit/s

95th percentile per-packet one-way delay: 72.137 ms

Loss rate: 0.00%

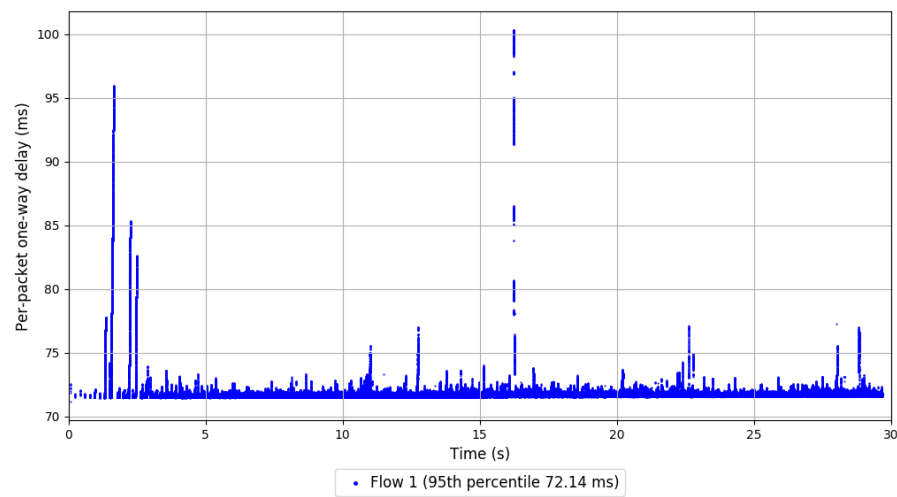
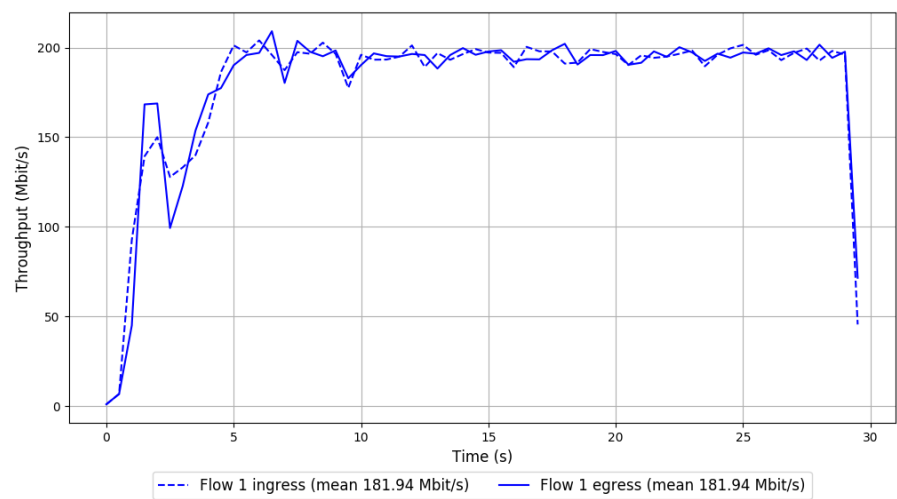
-- Flow 1:

Average throughput: 181.94 Mbit/s

95th percentile per-packet one-way delay: 72.137 ms

Loss rate: 0.00%

Run 8: Report of Indigo-2-256 — Data Link



Run 9: Statistics of Indigo-2-256

Start at: 2018-01-25 20:16:46

End at: 2018-01-25 20:17:16

Below is generated by plot.py at 2018-01-25 21:51:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.52 Mbit/s

95th percentile per-packet one-way delay: 72.457 ms

Loss rate: 0.00%

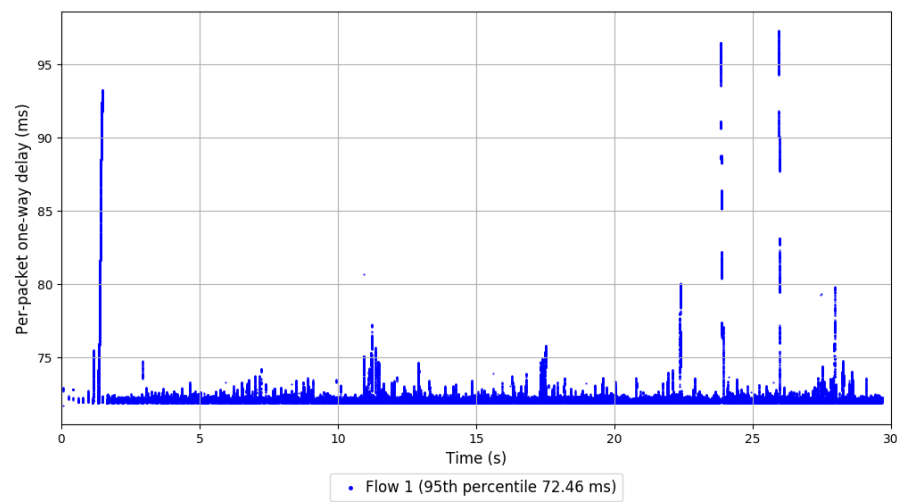
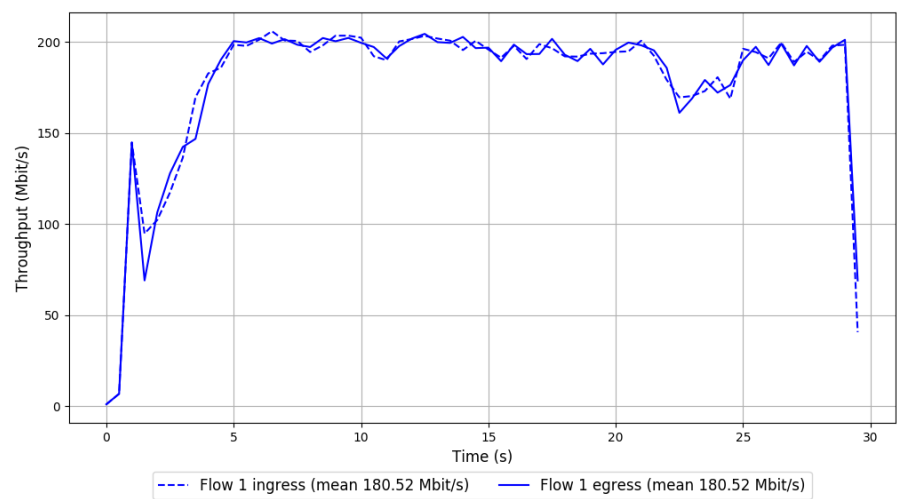
-- Flow 1:

Average throughput: 180.52 Mbit/s

95th percentile per-packet one-way delay: 72.457 ms

Loss rate: 0.00%

Run 9: Report of Indigo-2-256 — Data Link



Run 10: Statistics of Indigo-2-256

Start at: 2018-01-25 20:29:26

End at: 2018-01-25 20:29:56

Below is generated by plot.py at 2018-01-25 21:51:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.91 Mbit/s

95th percentile per-packet one-way delay: 72.616 ms

Loss rate: 0.15%

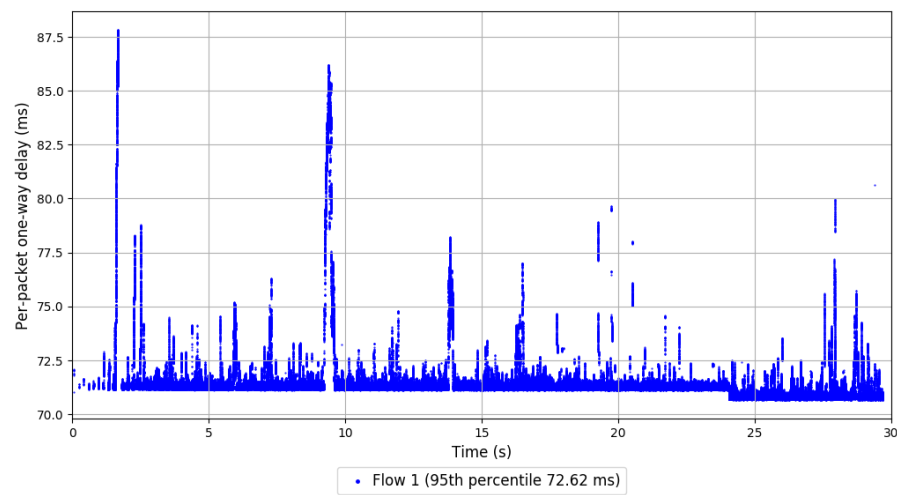
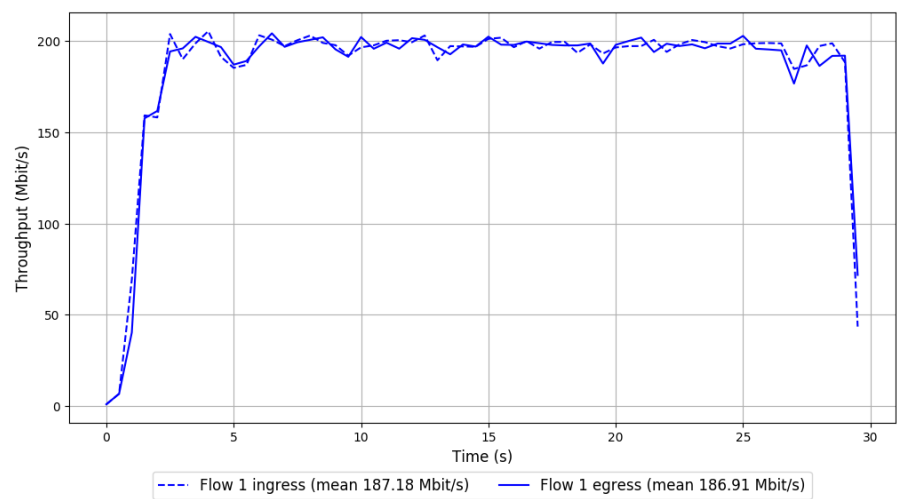
-- Flow 1:

Average throughput: 186.91 Mbit/s

95th percentile per-packet one-way delay: 72.616 ms

Loss rate: 0.15%

Run 10: Report of Indigo-2-256 — Data Link

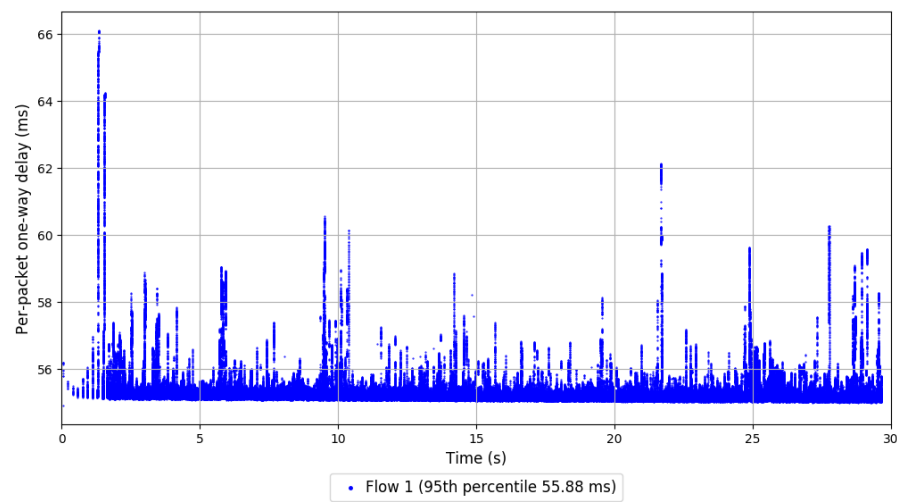
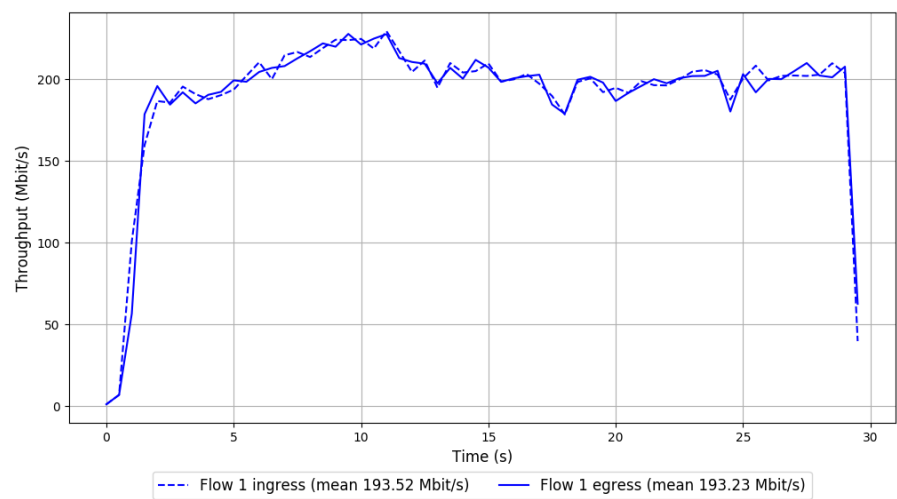


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-25 18:36:12
End at: 2018-01-25 18:36:42

# Below is generated by plot.py at 2018-01-25 21:51:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.23 Mbit/s
95th percentile per-packet one-way delay: 55.876 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 193.23 Mbit/s
95th percentile per-packet one-way delay: 55.876 ms
Loss rate: 0.15%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-25 18:48:56

End at: 2018-01-25 18:49:26

Below is generated by plot.py at 2018-01-25 21:52:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.33 Mbit/s

95th percentile per-packet one-way delay: 53.000 ms

Loss rate: 0.00%

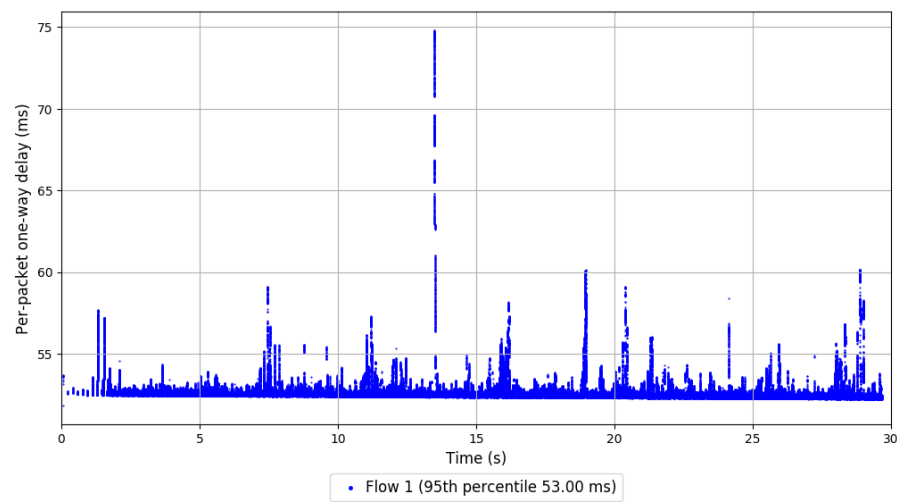
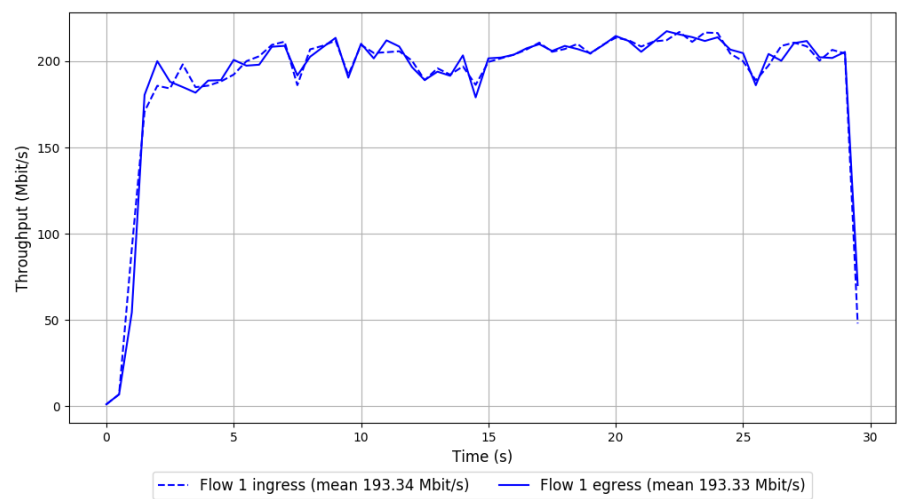
-- Flow 1:

Average throughput: 193.33 Mbit/s

95th percentile per-packet one-way delay: 53.000 ms

Loss rate: 0.00%

Run 2: Report of Indigo-1-32 — Data Link



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-25 19:01:15

End at: 2018-01-25 19:01:45

Below is generated by plot.py at 2018-01-25 21:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.71 Mbit/s

95th percentile per-packet one-way delay: 58.636 ms

Loss rate: 0.00%

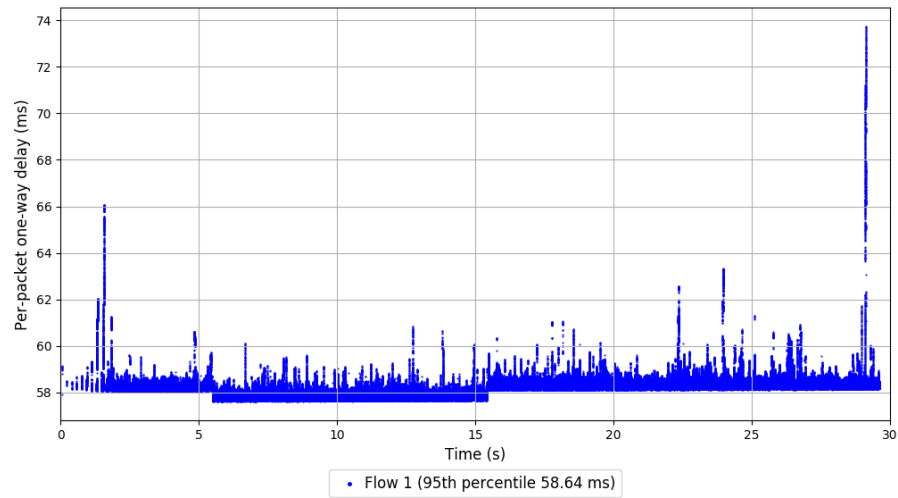
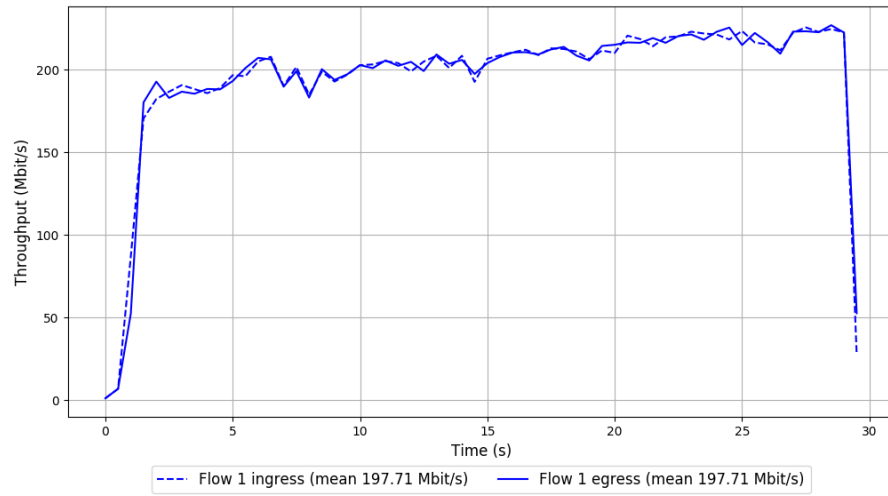
-- Flow 1:

Average throughput: 197.71 Mbit/s

95th percentile per-packet one-way delay: 58.636 ms

Loss rate: 0.00%

Run 3: Report of Indigo-1-32 — Data Link



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-25 19:13:50

End at: 2018-01-25 19:14:20

Below is generated by plot.py at 2018-01-25 21:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.94 Mbit/s

95th percentile per-packet one-way delay: 58.463 ms

Loss rate: 0.00%

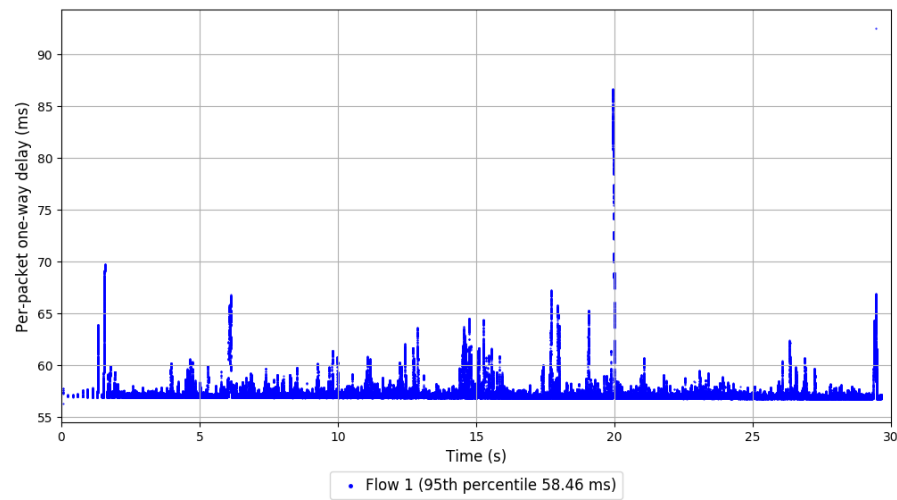
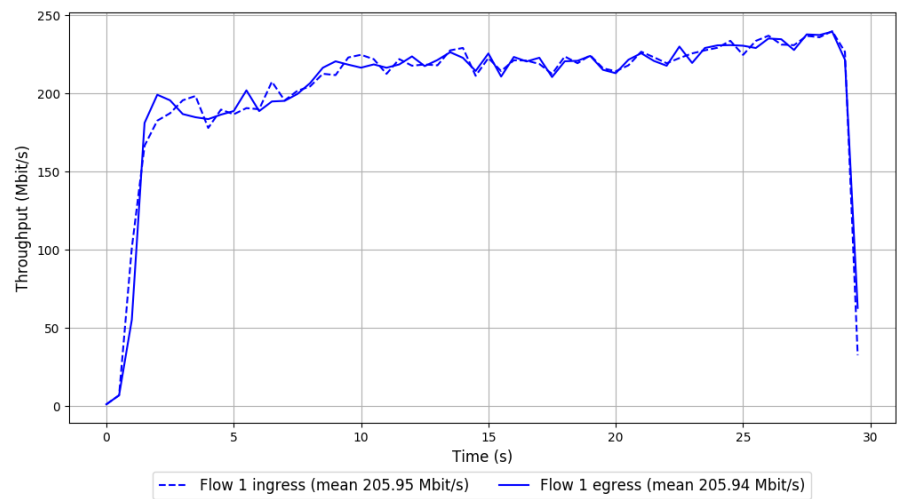
-- Flow 1:

Average throughput: 205.94 Mbit/s

95th percentile per-packet one-way delay: 58.463 ms

Loss rate: 0.00%

Run 4: Report of Indigo-1-32 — Data Link



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-25 19:26:31

End at: 2018-01-25 19:27:01

Below is generated by plot.py at 2018-01-25 21:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.71 Mbit/s

95th percentile per-packet one-way delay: 56.553 ms

Loss rate: 0.00%

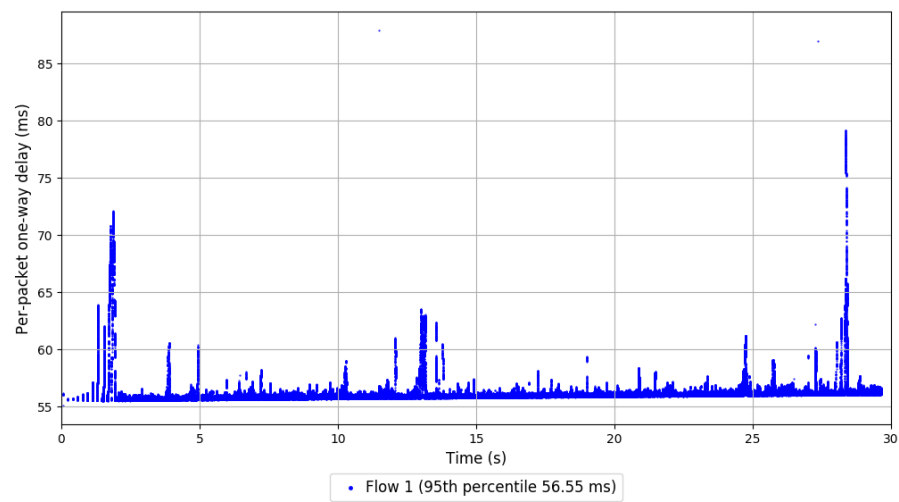
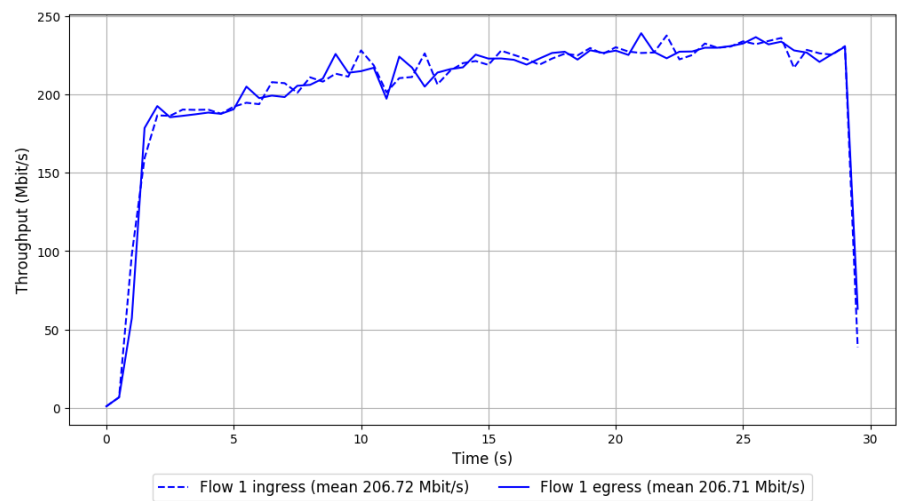
-- Flow 1:

Average throughput: 206.71 Mbit/s

95th percentile per-packet one-way delay: 56.553 ms

Loss rate: 0.00%

Run 5: Report of Indigo-1-32 — Data Link



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-25 19:39:22

End at: 2018-01-25 19:39:52

Below is generated by plot.py at 2018-01-25 21:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.95 Mbit/s

95th percentile per-packet one-way delay: 65.405 ms

Loss rate: 0.00%

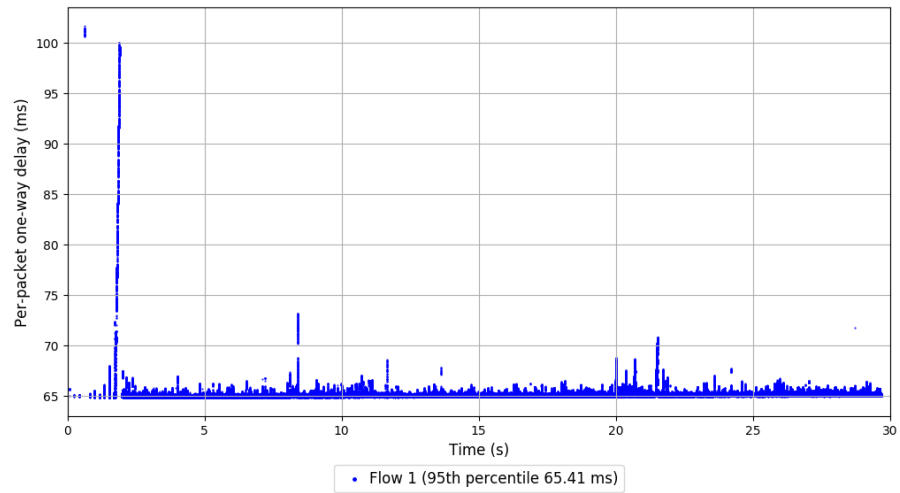
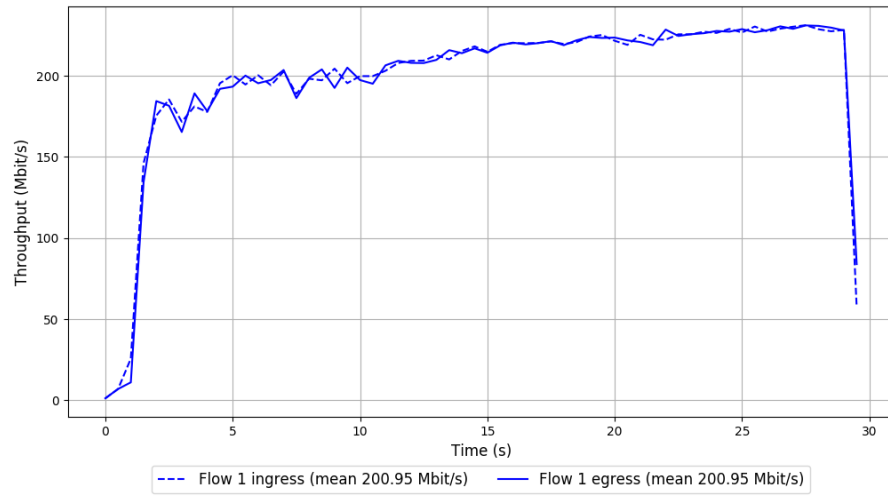
-- Flow 1:

Average throughput: 200.95 Mbit/s

95th percentile per-packet one-way delay: 65.405 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-32 — Data Link



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-25 19:52:01

End at: 2018-01-25 19:52:31

Below is generated by plot.py at 2018-01-25 21:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.81 Mbit/s

95th percentile per-packet one-way delay: 68.391 ms

Loss rate: 0.00%

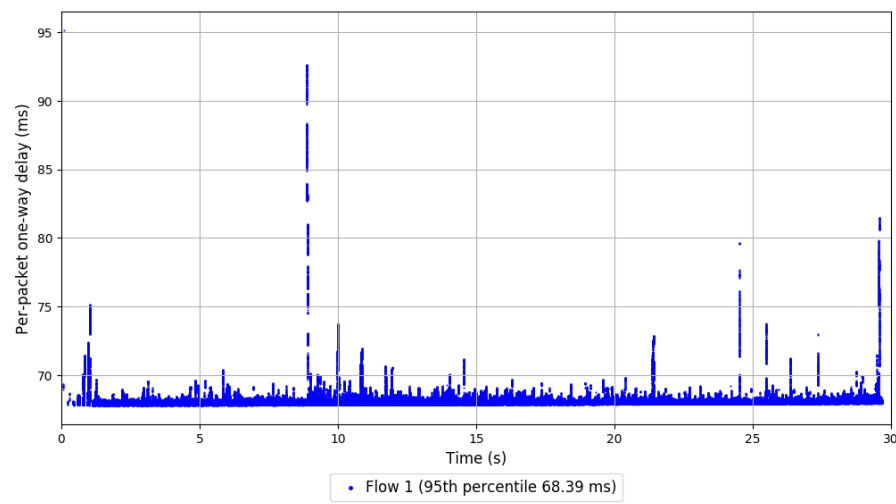
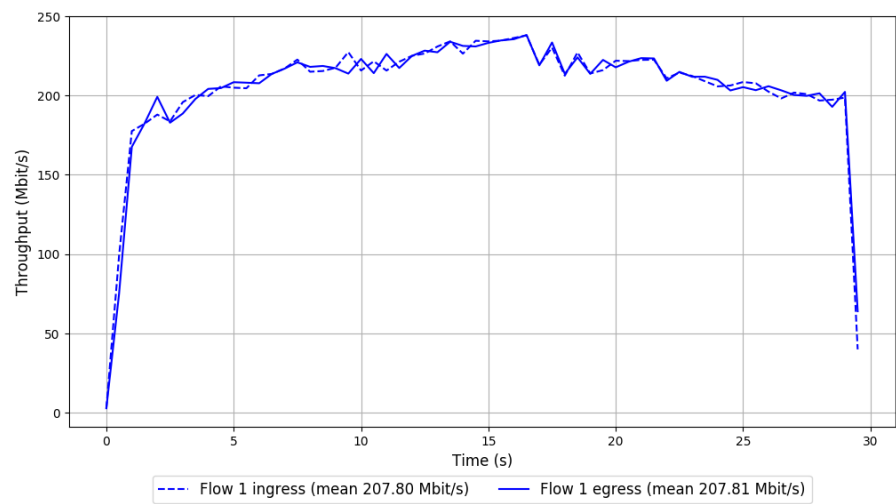
-- Flow 1:

Average throughput: 207.81 Mbit/s

95th percentile per-packet one-way delay: 68.391 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-32 — Data Link



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-25 20:04:47

End at: 2018-01-25 20:05:17

Below is generated by plot.py at 2018-01-25 21:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.97 Mbit/s

95th percentile per-packet one-way delay: 72.258 ms

Loss rate: 0.03%

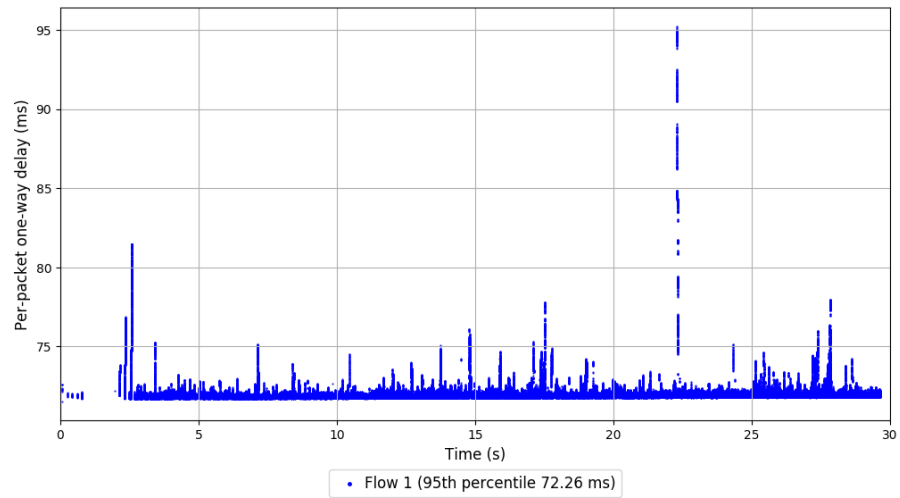
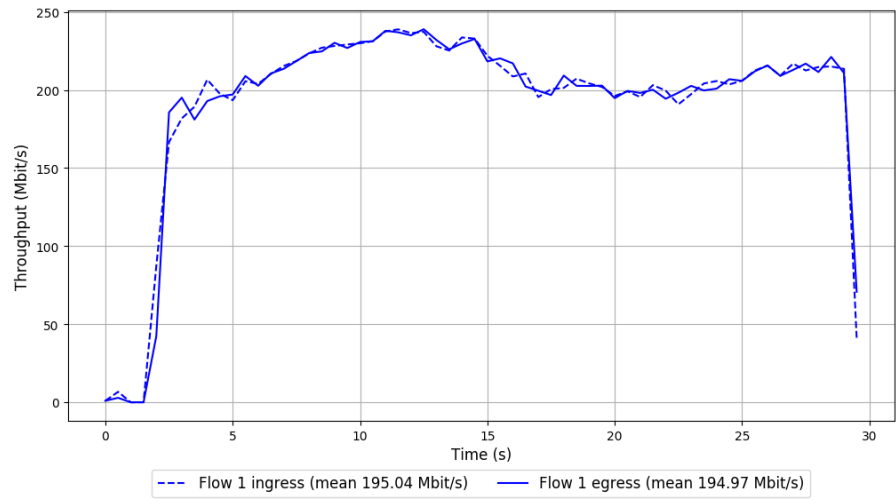
-- Flow 1:

Average throughput: 194.97 Mbit/s

95th percentile per-packet one-way delay: 72.258 ms

Loss rate: 0.03%

Run 8: Report of Indigo-1-32 — Data Link



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-25 20:17:38

End at: 2018-01-25 20:18:08

Below is generated by plot.py at 2018-01-25 21:55:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.95 Mbit/s

95th percentile per-packet one-way delay: 72.738 ms

Loss rate: 0.00%

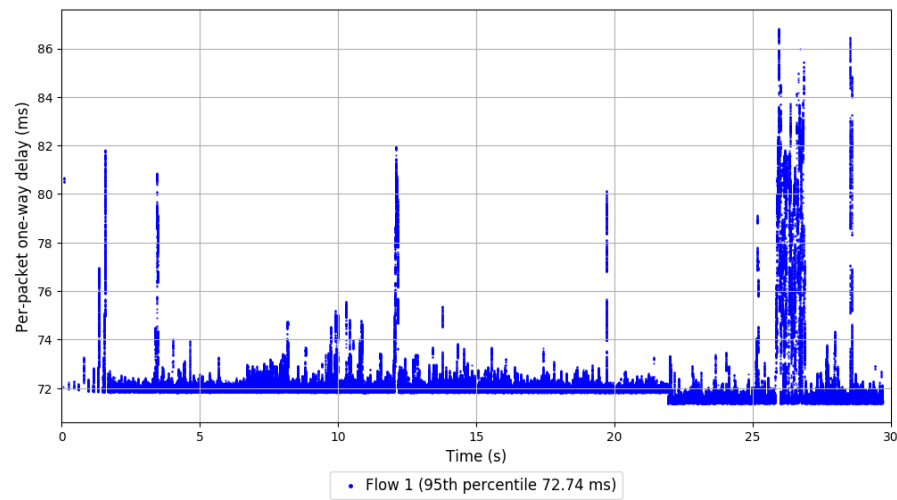
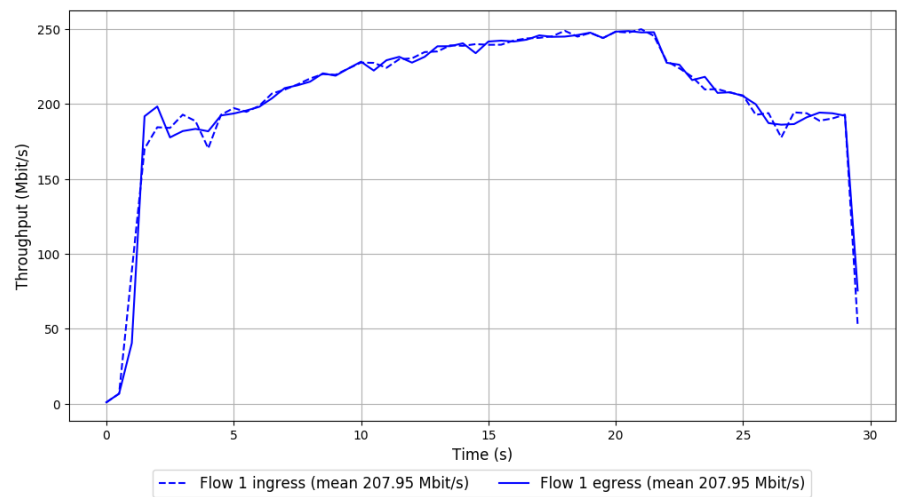
-- Flow 1:

Average throughput: 207.95 Mbit/s

95th percentile per-packet one-way delay: 72.738 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-32 — Data Link



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-25 20:30:20

End at: 2018-01-25 20:30:50

Below is generated by plot.py at 2018-01-25 21:55:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.50 Mbit/s

95th percentile per-packet one-way delay: 71.640 ms

Loss rate: 0.06%

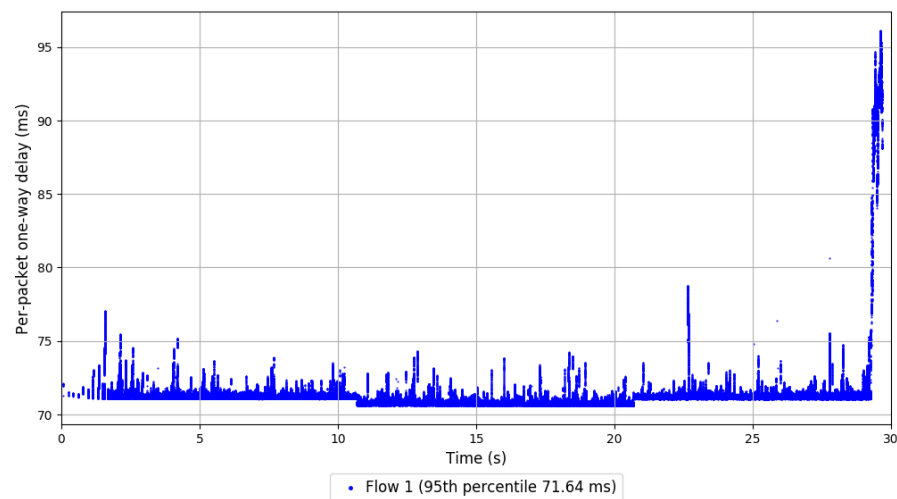
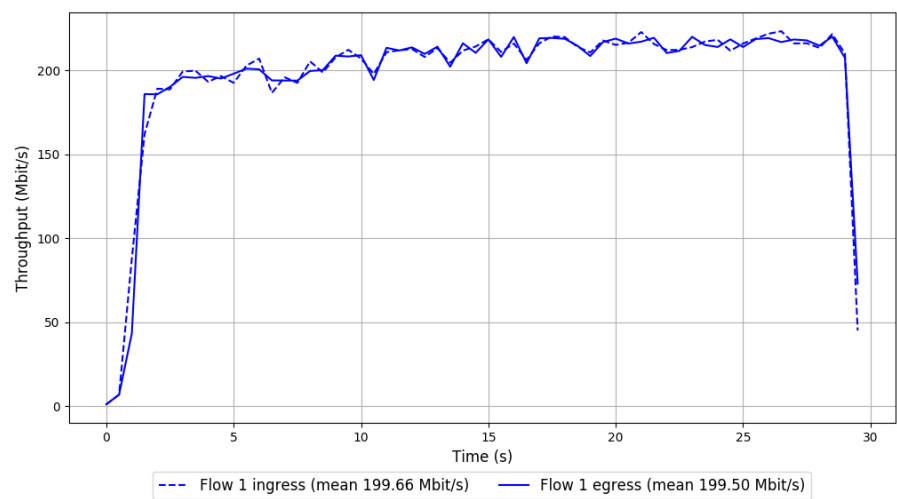
-- Flow 1:

Average throughput: 199.50 Mbit/s

95th percentile per-packet one-way delay: 71.640 ms

Loss rate: 0.06%

Run 10: Report of Indigo-1-32 — Data Link

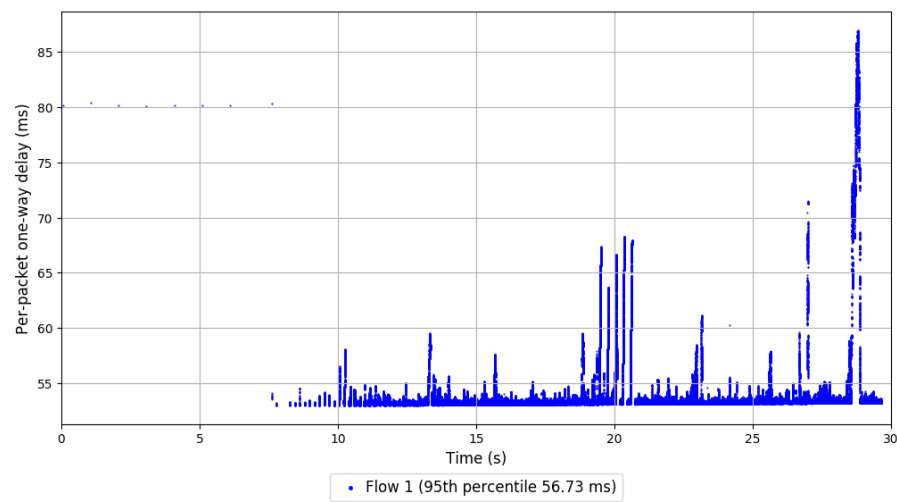
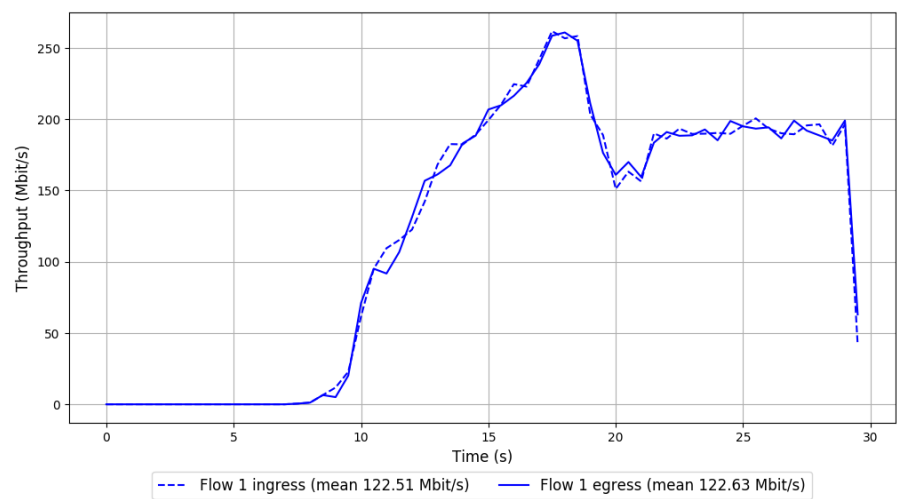


```
Run 1: Statistics of Indigo-1-128

Start at: 2018-01-25 18:26:02
End at: 2018-01-25 18:26:32

# Below is generated by plot.py at 2018-01-25 21:55:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 122.63 Mbit/s
95th percentile per-packet one-way delay: 56.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 122.63 Mbit/s
95th percentile per-packet one-way delay: 56.730 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo-1-128 — Data Link



Run 2: Statistics of Indigo-1-128

Start at: 2018-01-25 18:38:27

End at: 2018-01-25 18:38:57

Below is generated by plot.py at 2018-01-25 21:57:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.81 Mbit/s

95th percentile per-packet one-way delay: 56.738 ms

Loss rate: 0.05%

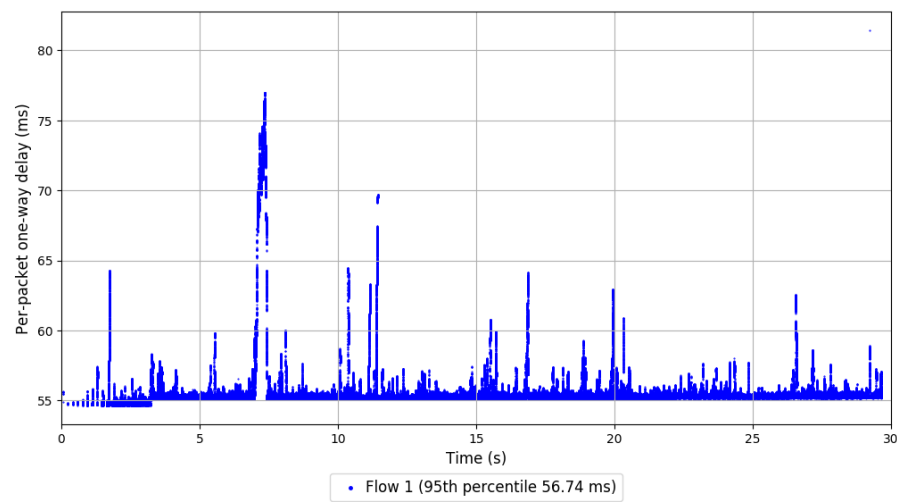
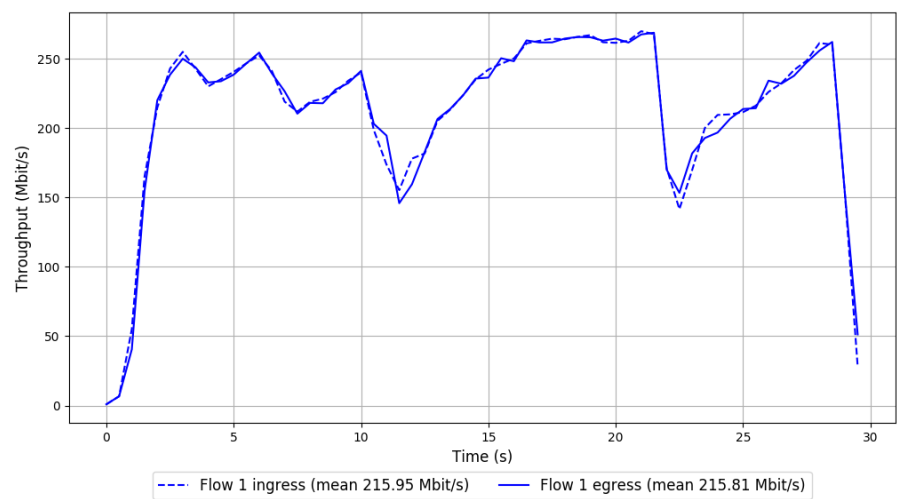
-- Flow 1:

Average throughput: 215.81 Mbit/s

95th percentile per-packet one-way delay: 56.738 ms

Loss rate: 0.05%

Run 2: Report of Indigo-1-128 — Data Link



Run 3: Statistics of Indigo-1-128

Start at: 2018-01-25 18:51:11

End at: 2018-01-25 18:51:41

Below is generated by plot.py at 2018-01-25 21:57:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.82 Mbit/s

95th percentile per-packet one-way delay: 61.144 ms

Loss rate: 0.08%

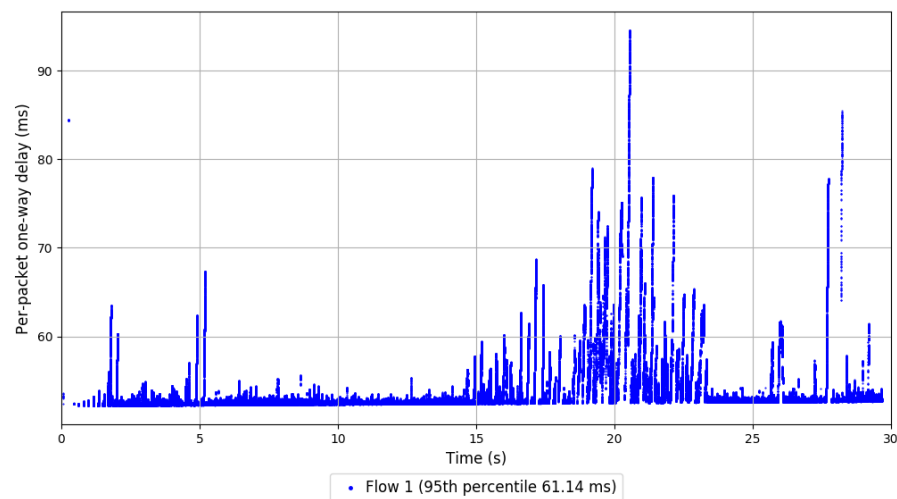
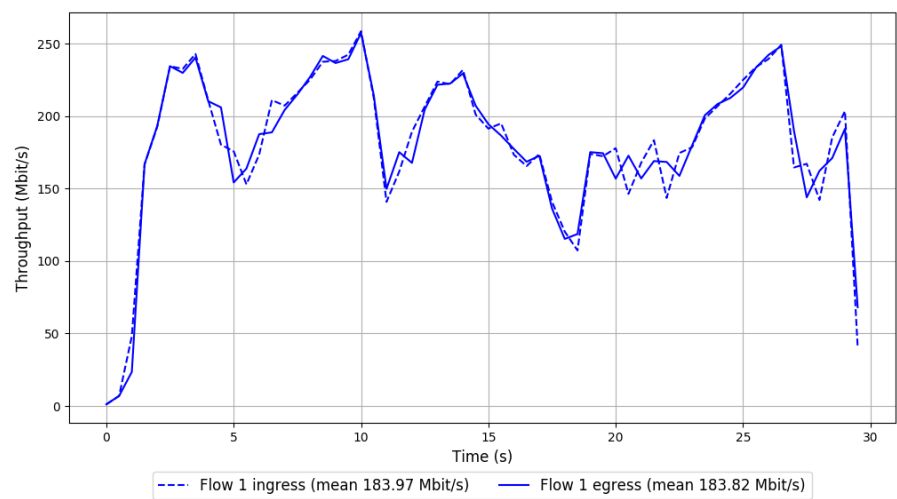
-- Flow 1:

Average throughput: 183.82 Mbit/s

95th percentile per-packet one-way delay: 61.144 ms

Loss rate: 0.08%

Run 3: Report of Indigo-1-128 — Data Link



Run 4: Statistics of Indigo-1-128

Start at: 2018-01-25 19:03:31

End at: 2018-01-25 19:04:01

Below is generated by plot.py at 2018-01-25 21:57:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.94 Mbit/s

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

Loss rate: 0.00%

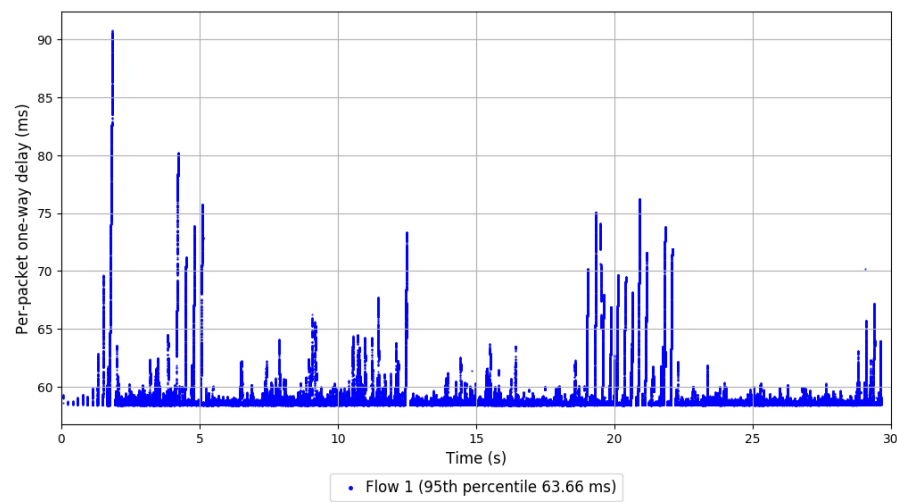
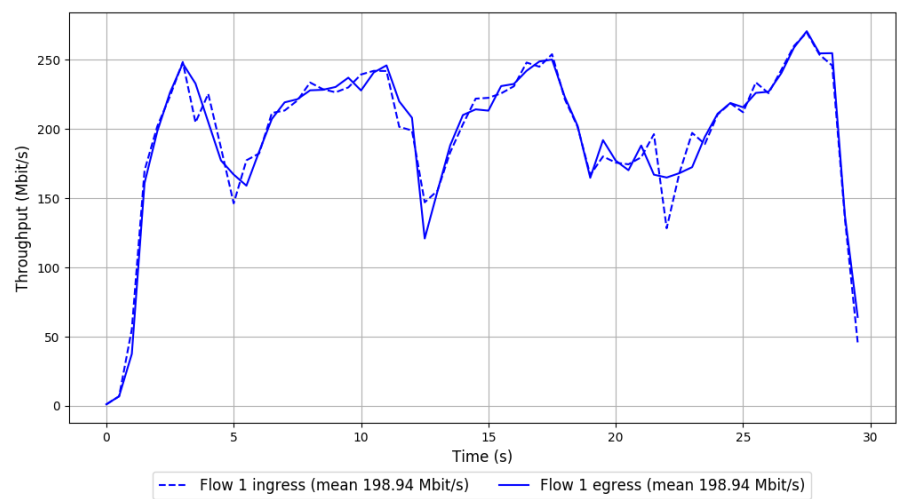
-- Flow 1:

Average throughput: 198.94 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-25 19:16:07

End at: 2018-01-25 19:16:37

Below is generated by plot.py at 2018-01-25 21:57:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.60 Mbit/s

95th percentile per-packet one-way delay: 57.464 ms

Loss rate: 0.14%

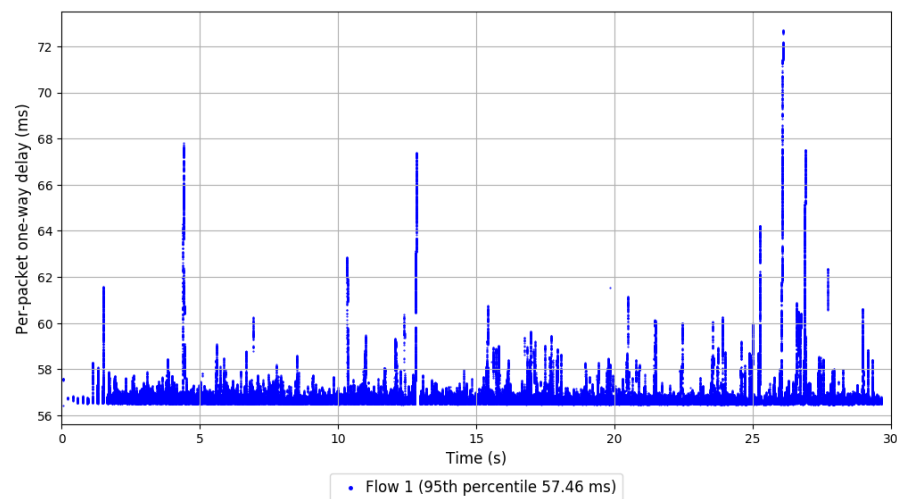
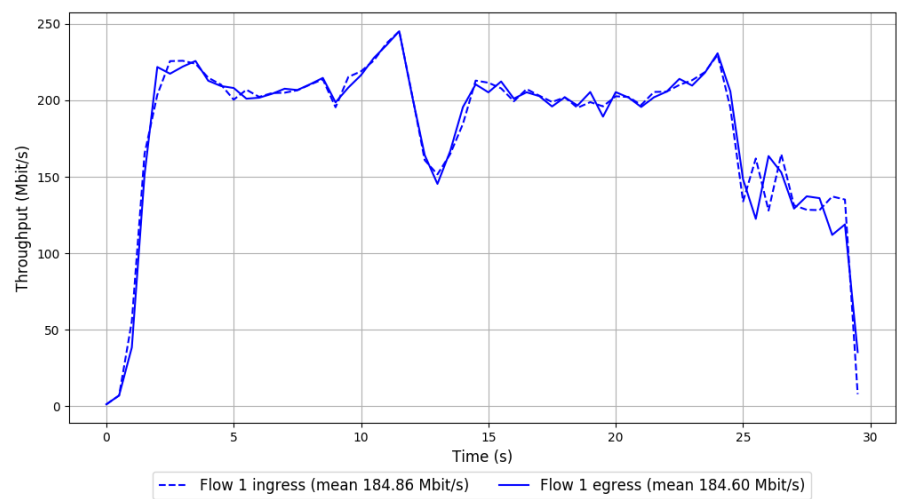
-- Flow 1:

Average throughput: 184.60 Mbit/s

95th percentile per-packet one-way delay: 57.464 ms

Loss rate: 0.14%

Run 5: Report of Indigo-1-128 — Data Link



Run 6: Statistics of Indigo-1-128

Start at: 2018-01-25 19:28:48

End at: 2018-01-25 19:29:18

Below is generated by plot.py at 2018-01-25 21:58:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.21 Mbit/s

95th percentile per-packet one-way delay: 61.268 ms

Loss rate: 0.00%

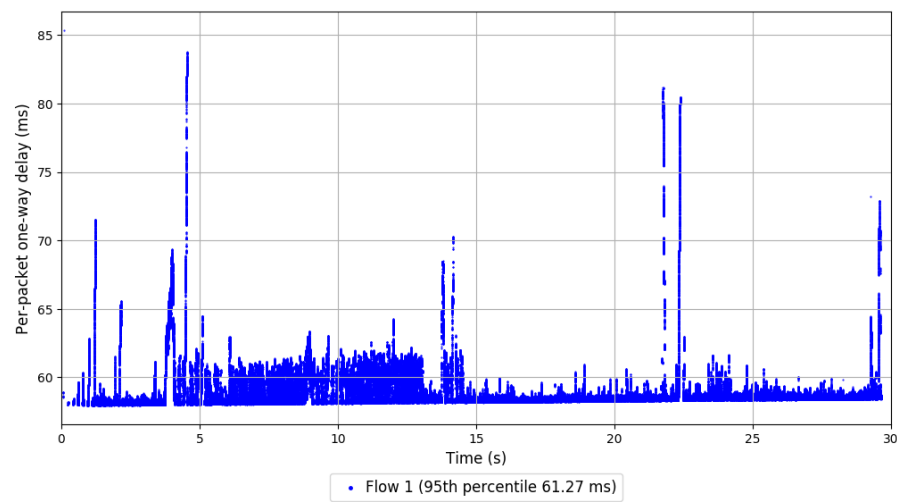
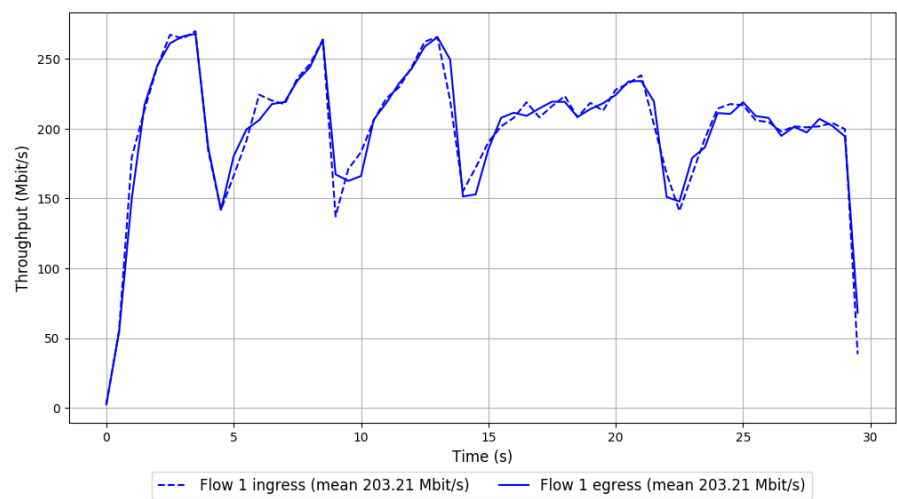
-- Flow 1:

Average throughput: 203.21 Mbit/s

95th percentile per-packet one-way delay: 61.268 ms

Loss rate: 0.00%

Run 6: Report of Indigo-1-128 — Data Link



Run 7: Statistics of Indigo-1-128

Start at: 2018-01-25 19:41:38

End at: 2018-01-25 19:42:08

Below is generated by plot.py at 2018-01-25 21:58:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.85 Mbit/s

95th percentile per-packet one-way delay: 67.835 ms

Loss rate: 0.00%

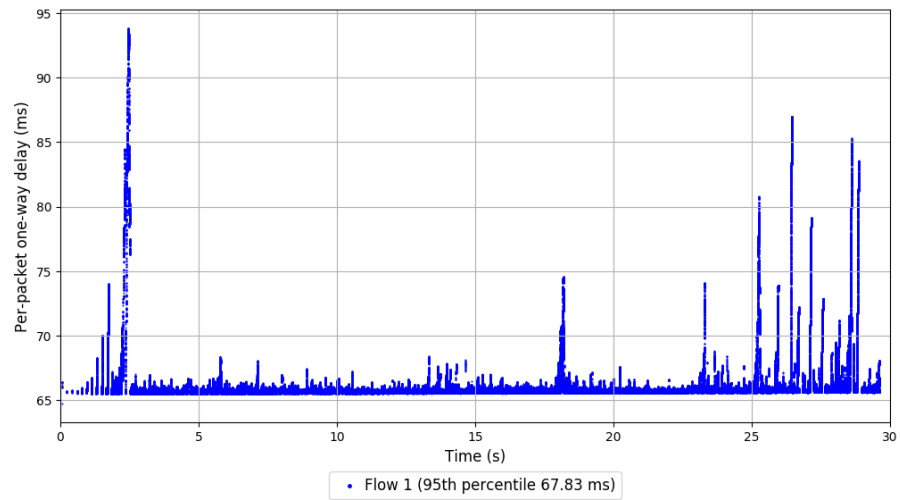
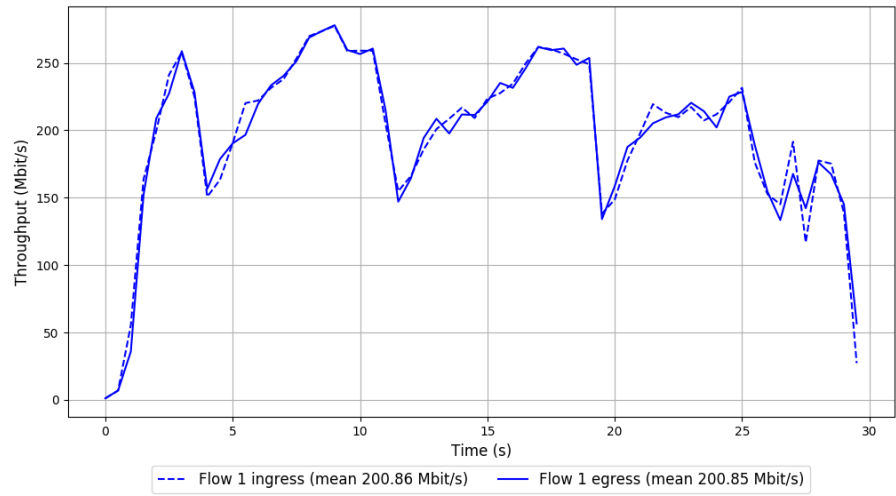
-- Flow 1:

Average throughput: 200.85 Mbit/s

95th percentile per-packet one-way delay: 67.835 ms

Loss rate: 0.00%

Run 7: Report of Indigo-1-128 — Data Link



Run 8: Statistics of Indigo-1-128

Start at: 2018-01-25 19:54:17

End at: 2018-01-25 19:54:47

Below is generated by plot.py at 2018-01-25 21:58:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.63 Mbit/s

95th percentile per-packet one-way delay: 69.220 ms

Loss rate: 0.06%

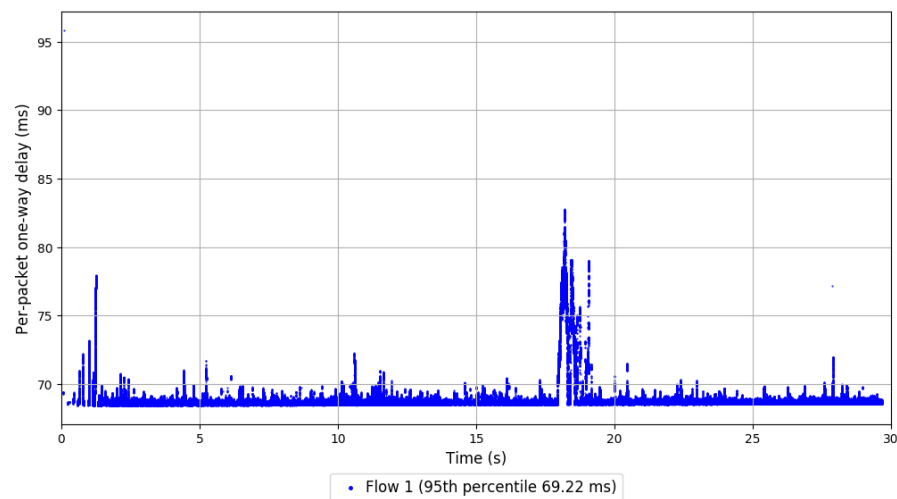
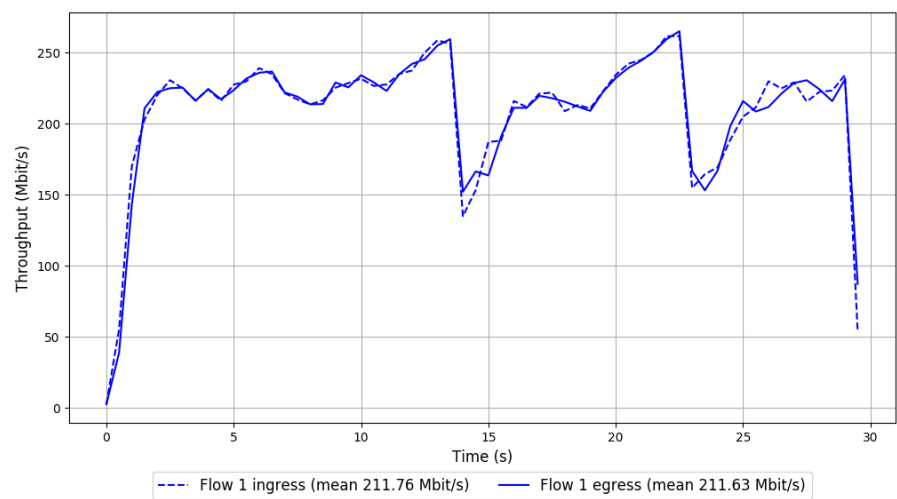
-- Flow 1:

Average throughput: 211.63 Mbit/s

95th percentile per-packet one-way delay: 69.220 ms

Loss rate: 0.06%

Run 8: Report of Indigo-1-128 — Data Link



Run 9: Statistics of Indigo-1-128

Start at: 2018-01-25 20:07:04

End at: 2018-01-25 20:07:34

Below is generated by plot.py at 2018-01-25 21:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.21 Mbit/s

95th percentile per-packet one-way delay: 73.353 ms

Loss rate: 0.00%

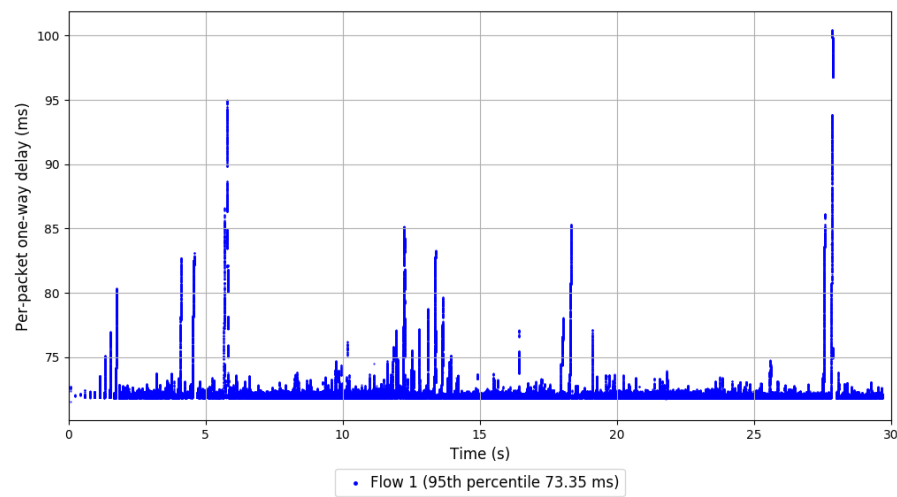
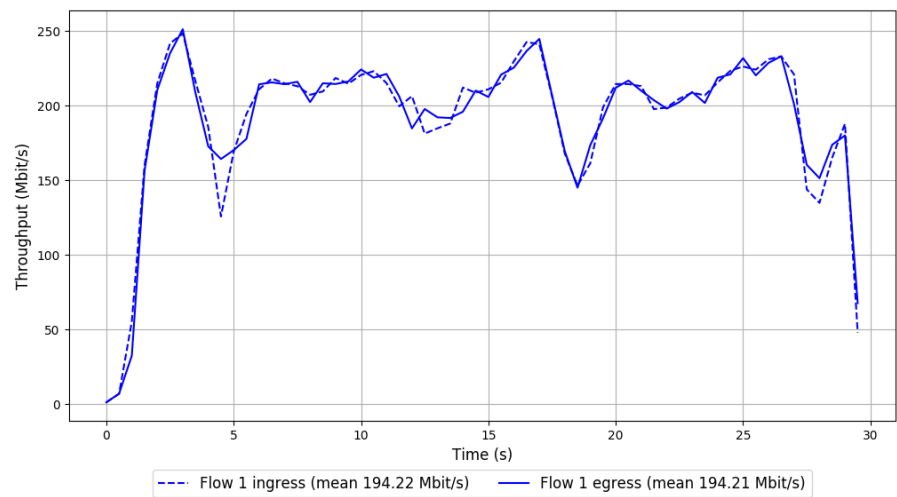
-- Flow 1:

Average throughput: 194.21 Mbit/s

95th percentile per-packet one-way delay: 73.353 ms

Loss rate: 0.00%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-25 20:19:52

End at: 2018-01-25 20:20:22

Below is generated by plot.py at 2018-01-25 21:58:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.33 Mbit/s

95th percentile per-packet one-way delay: 75.377 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 191.33 Mbit/s

95th percentile per-packet one-way delay: 75.377 ms

Loss rate: 0.01%

Run 10: Report of Indigo-1-128 — Data Link

