

Pantheon Report

Generated at 2018-04-25 00:24:41 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

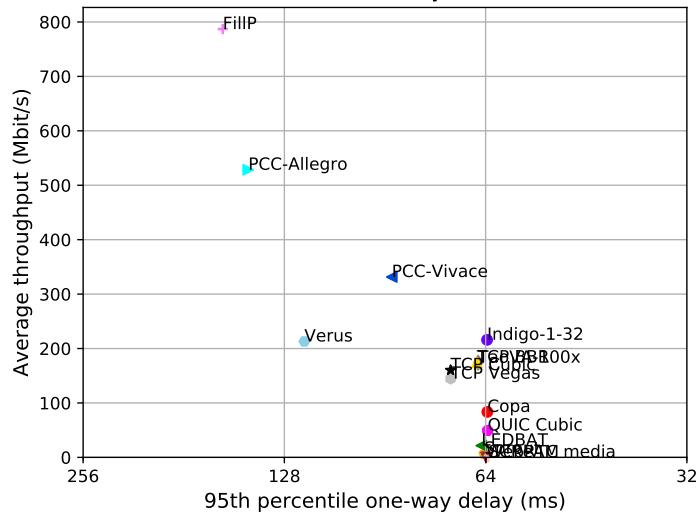
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

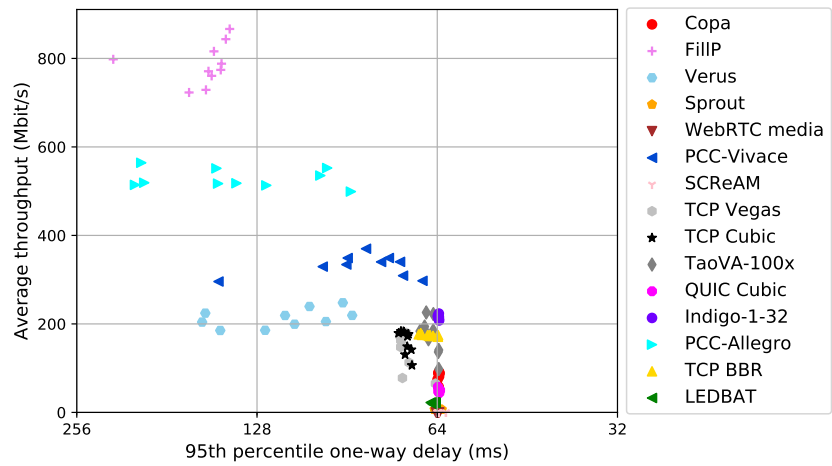
Git summary:

```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
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 @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	174.44	65.97	0.44
TCP Cubic	10	160.27	72.21	0.36
LEDBAT	10	21.60	64.96	0.82
PCC-Allegro	10	528.39	144.95	1.64
QUIC Cubic	10	49.39	63.57	0.61
SCReAM	10	0.22	63.42	0.39
WebRTC media	10	0.06	63.89	0.01
Sprout	10	6.56	64.33	0.44
TaoVA-100x	10	173.92	65.68	0.36
TCP Vegas	10	144.53	72.20	0.32
Verus	10	212.95	119.50	0.84
Copa	10	83.54	63.62	0.34
FillP	10	786.98	158.26	7.14
Indigo-1-32	10	215.92	63.68	0.44
PCC-Vivace	10	331.39	88.43	0.45
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-24 18:49:06

End at: 2018-04-24 18:49:36

Below is generated by plot.py at 2018-04-24 23:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.15 Mbit/s

95th percentile per-packet one-way delay: 68.197 ms

Loss rate: 0.44%

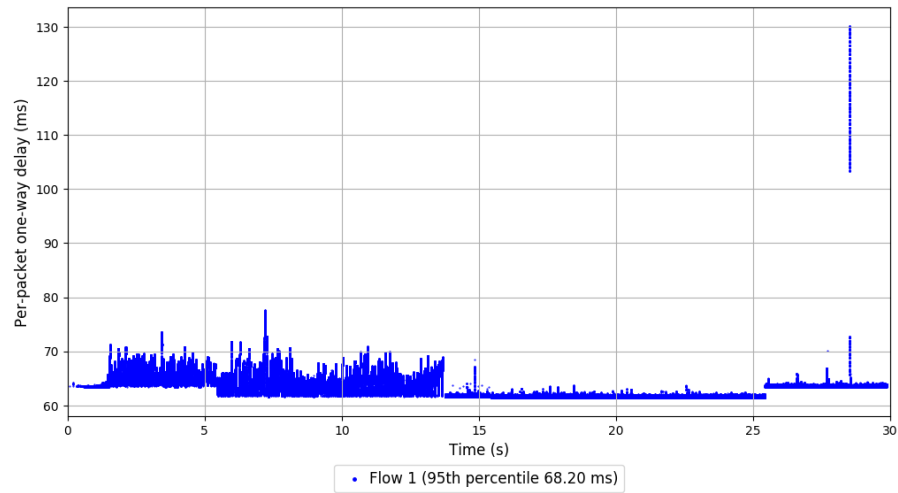
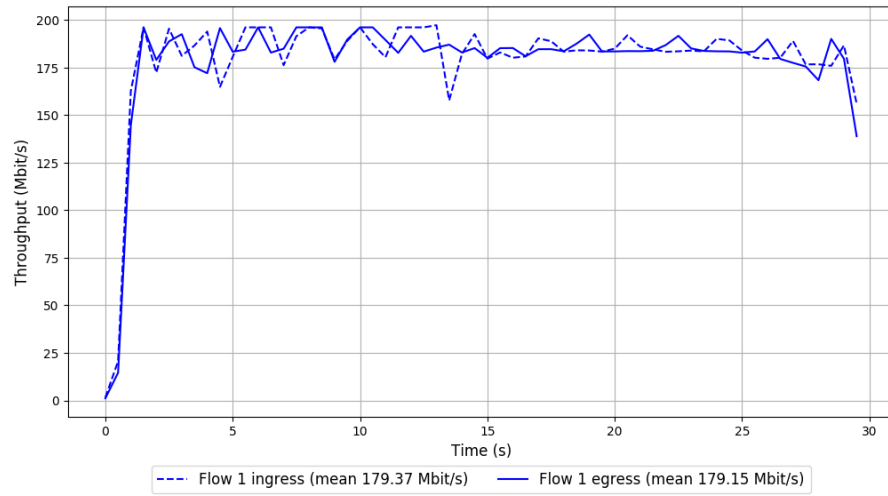
-- Flow 1:

Average throughput: 179.15 Mbit/s

95th percentile per-packet one-way delay: 68.197 ms

Loss rate: 0.44%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-24 19:02:24

End at: 2018-04-24 19:02:54

Below is generated by plot.py at 2018-04-24 23:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.07 Mbit/s

95th percentile per-packet one-way delay: 65.849 ms

Loss rate: 0.43%

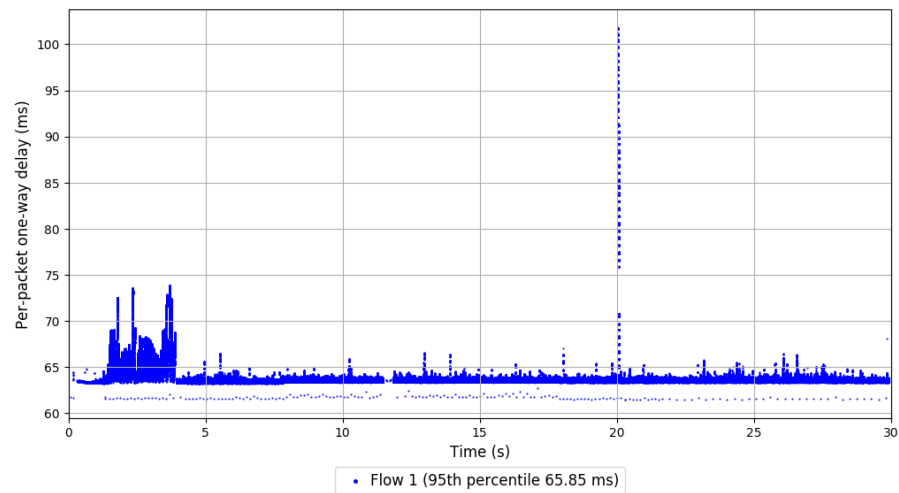
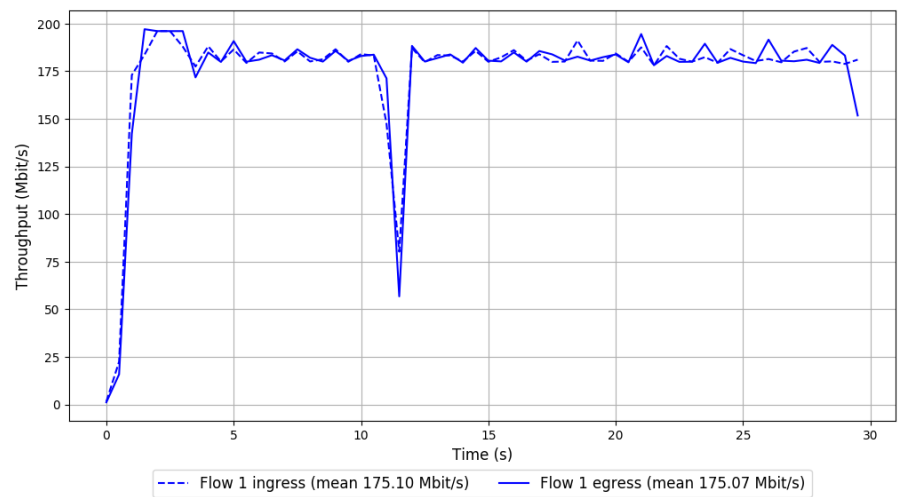
-- Flow 1:

Average throughput: 175.07 Mbit/s

95th percentile per-packet one-way delay: 65.849 ms

Loss rate: 0.43%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 19:15:53

End at: 2018-04-24 19:16:23

Below is generated by plot.py at 2018-04-24 23:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.97 Mbit/s

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

Loss rate: 0.44%

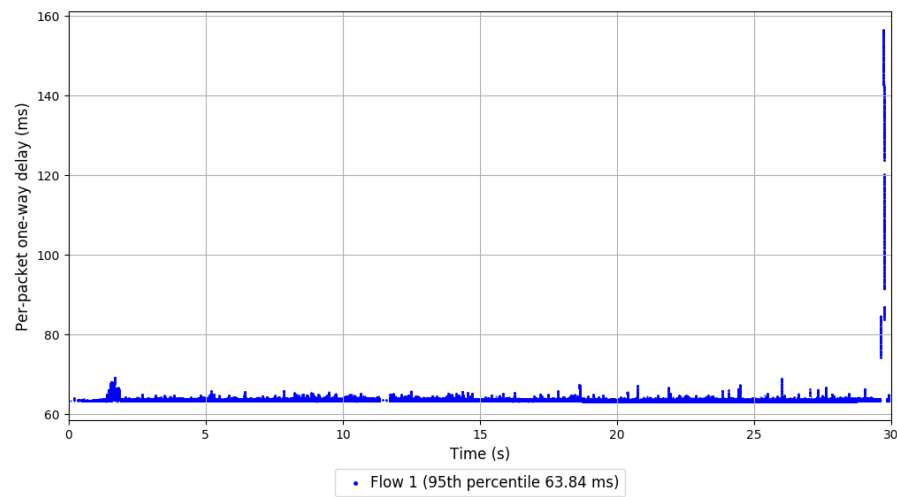
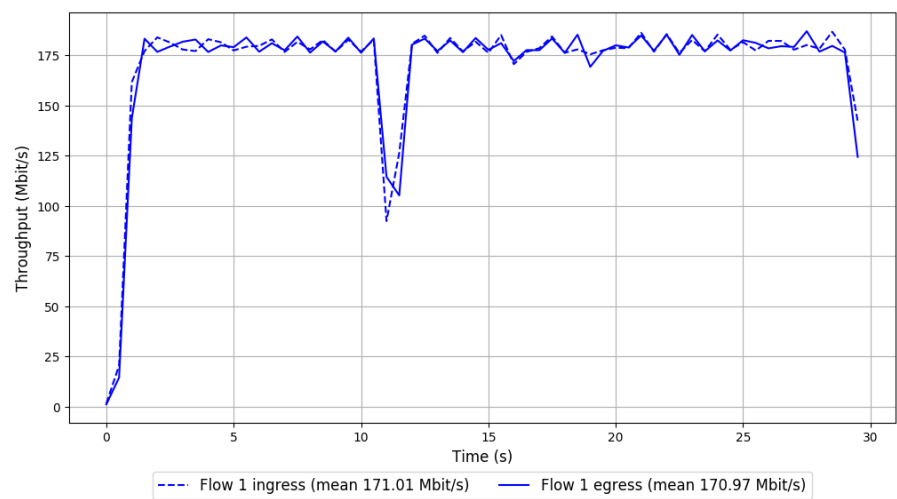
-- Flow 1:

Average throughput: 170.97 Mbit/s

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

Loss rate: 0.44%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-24 19:29:11

End at: 2018-04-24 19:29:41

Below is generated by plot.py at 2018-04-24 23:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.60 Mbit/s

95th percentile per-packet one-way delay: 63.994 ms

Loss rate: 0.44%

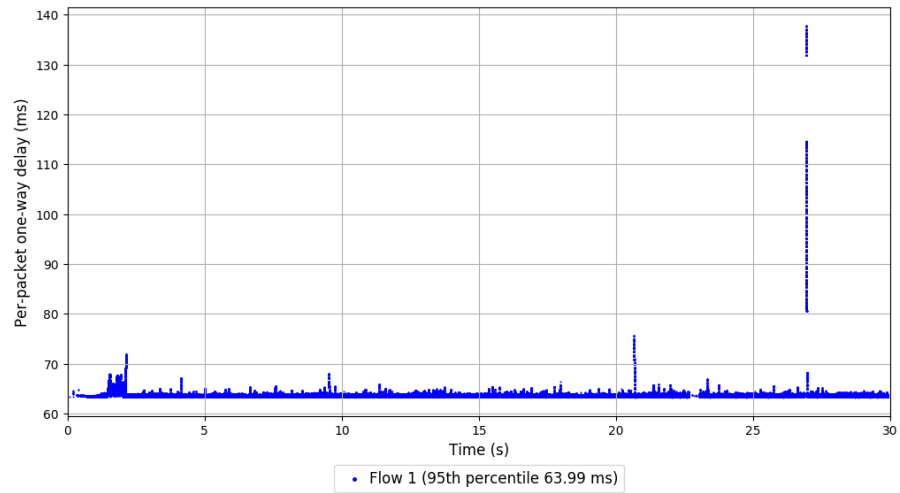
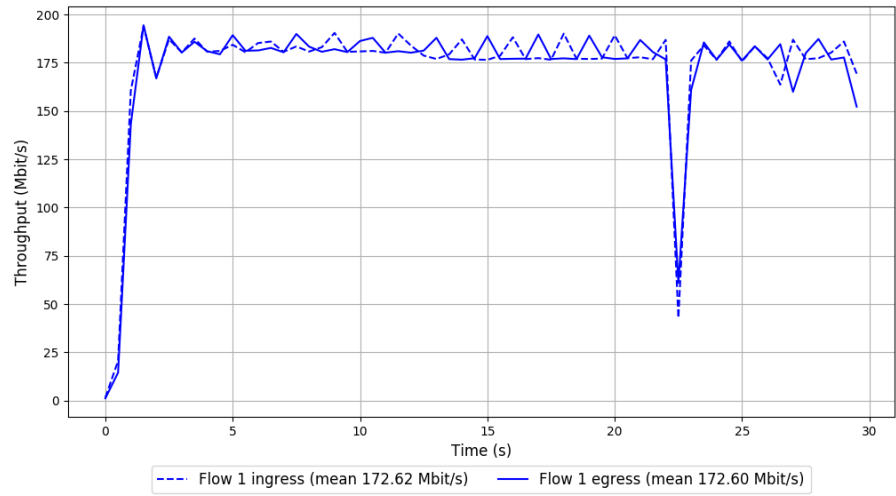
-- Flow 1:

Average throughput: 172.60 Mbit/s

95th percentile per-packet one-way delay: 63.994 ms

Loss rate: 0.44%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-24 19:42:35

End at: 2018-04-24 19:43:05

Below is generated by plot.py at 2018-04-24 23:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.20 Mbit/s

95th percentile per-packet one-way delay: 67.889 ms

Loss rate: 0.43%

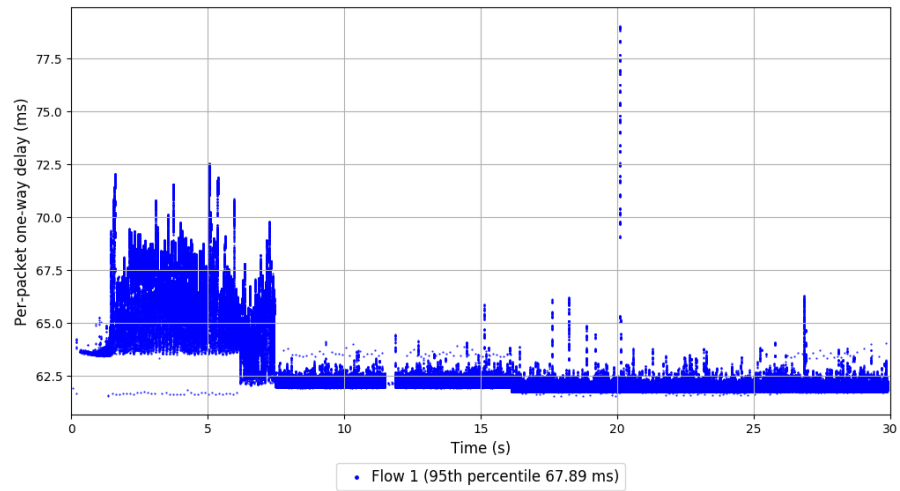
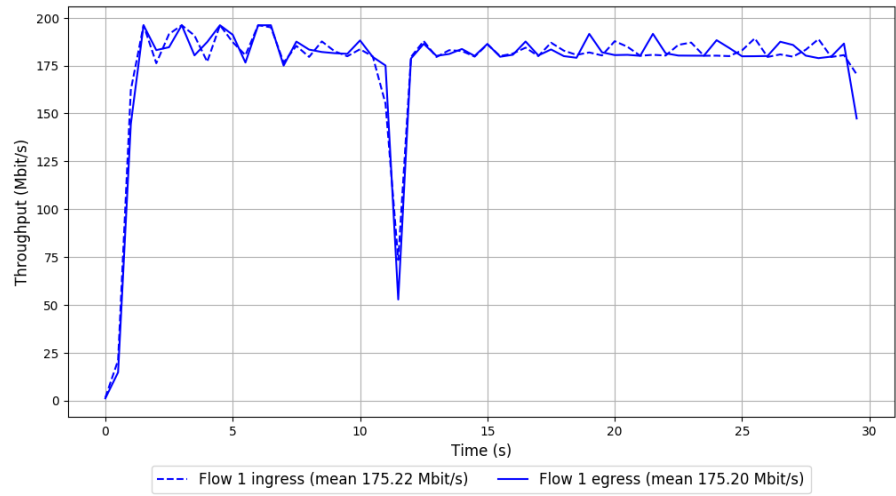
-- Flow 1:

Average throughput: 175.20 Mbit/s

95th percentile per-packet one-way delay: 67.889 ms

Loss rate: 0.43%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-24 19:55:58

End at: 2018-04-24 19:56:28

Below is generated by plot.py at 2018-04-24 23:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.45 Mbit/s

95th percentile per-packet one-way delay: 68.706 ms

Loss rate: 0.44%

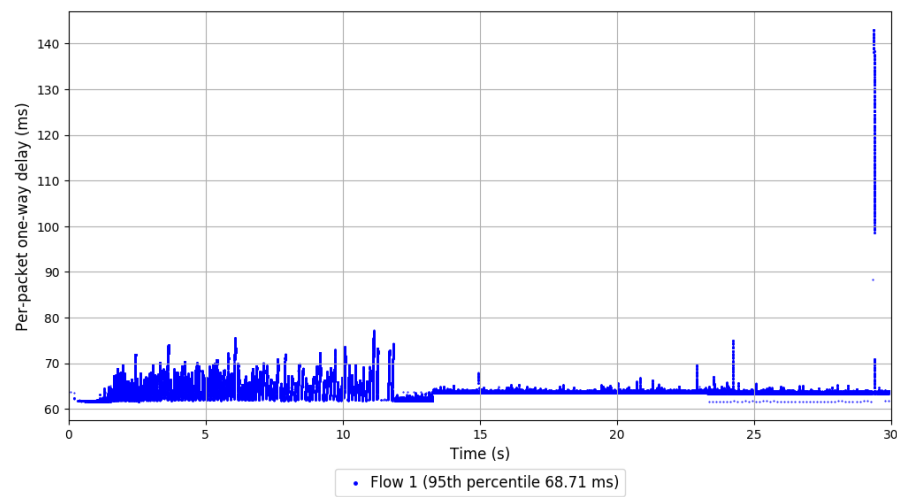
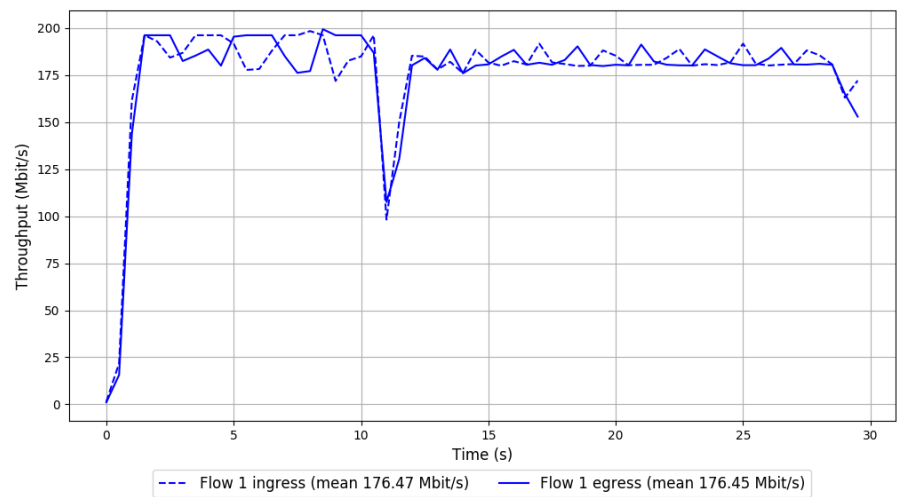
-- Flow 1:

Average throughput: 176.45 Mbit/s

95th percentile per-packet one-way delay: 68.706 ms

Loss rate: 0.44%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-24 20:09:17

End at: 2018-04-24 20:09:48

Below is generated by plot.py at 2018-04-24 23:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.58 Mbit/s

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

Loss rate: 0.43%

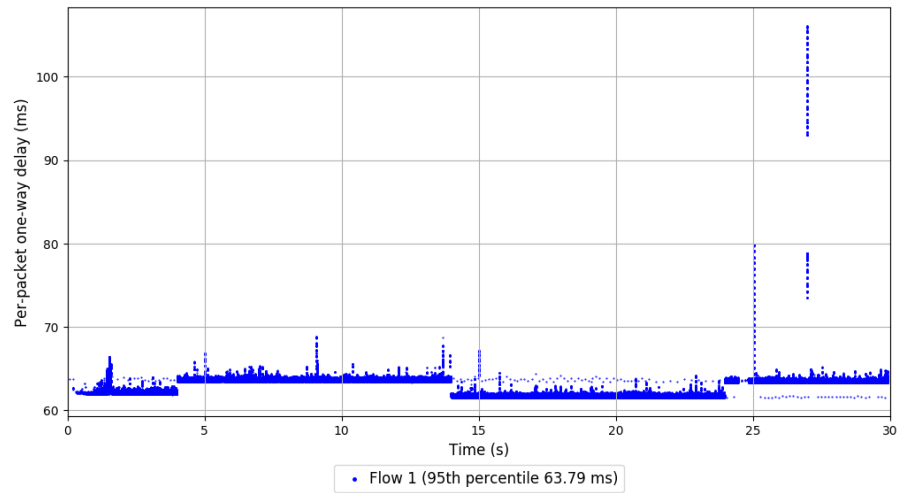
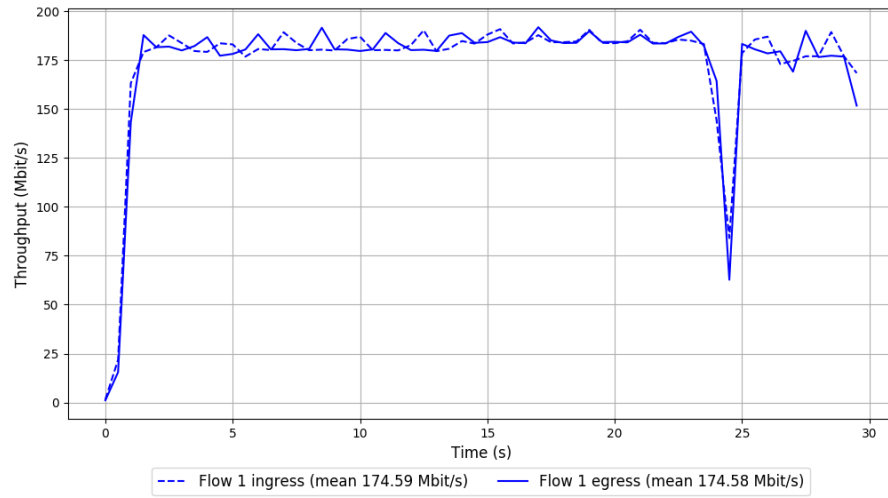
-- Flow 1:

Average throughput: 174.58 Mbit/s

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

Loss rate: 0.43%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-24 20:22:46

End at: 2018-04-24 20:23:16

Below is generated by plot.py at 2018-04-24 23:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.66 Mbit/s

95th percentile per-packet one-way delay: 66.426 ms

Loss rate: 0.40%

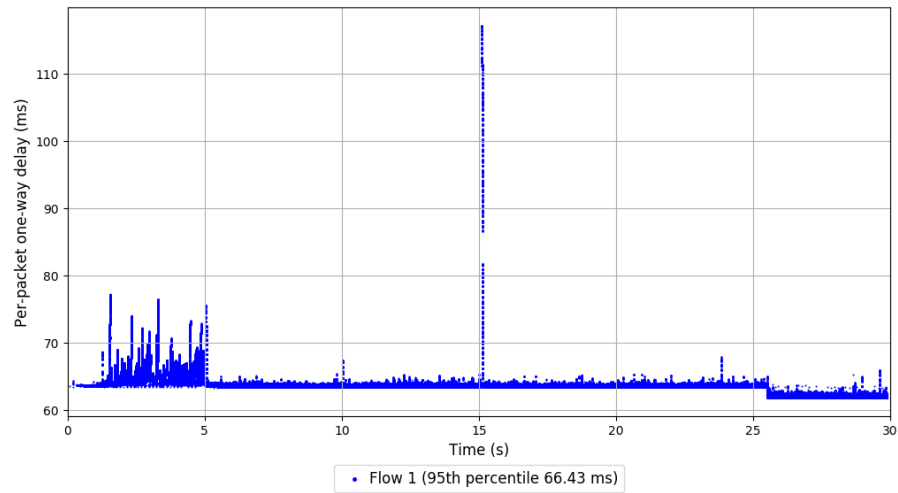
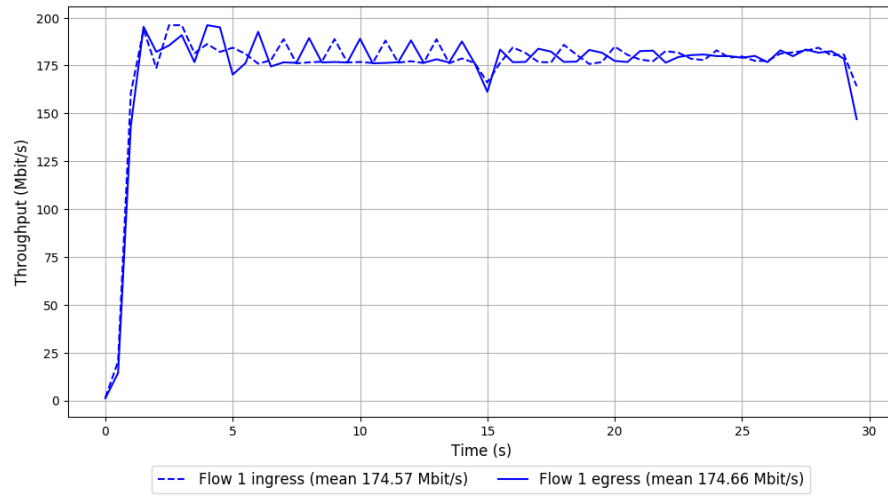
-- Flow 1:

Average throughput: 174.66 Mbit/s

95th percentile per-packet one-way delay: 66.426 ms

Loss rate: 0.40%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-24 20:36:39

End at: 2018-04-24 20:37:09

Below is generated by plot.py at 2018-04-24 23:19:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.07 Mbit/s

95th percentile per-packet one-way delay: 65.037 ms

Loss rate: 0.45%

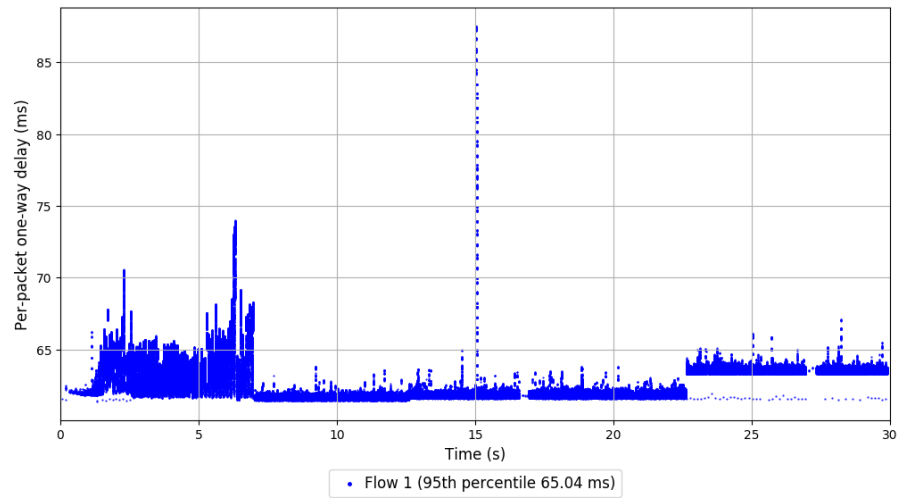
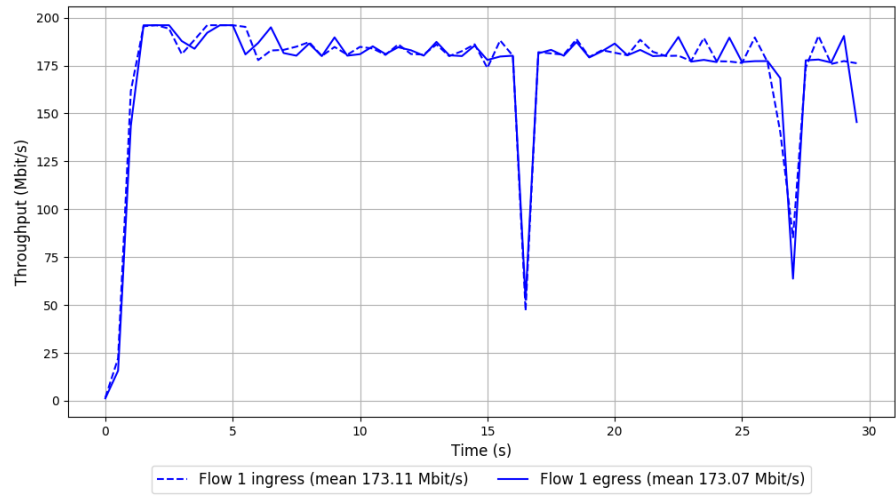
-- Flow 1:

Average throughput: 173.07 Mbit/s

95th percentile per-packet one-way delay: 65.037 ms

Loss rate: 0.45%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-24 20:49:53

End at: 2018-04-24 20:50:23

Below is generated by plot.py at 2018-04-24 23:19:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.69 Mbit/s

95th percentile per-packet one-way delay: 65.940 ms

Loss rate: 0.45%

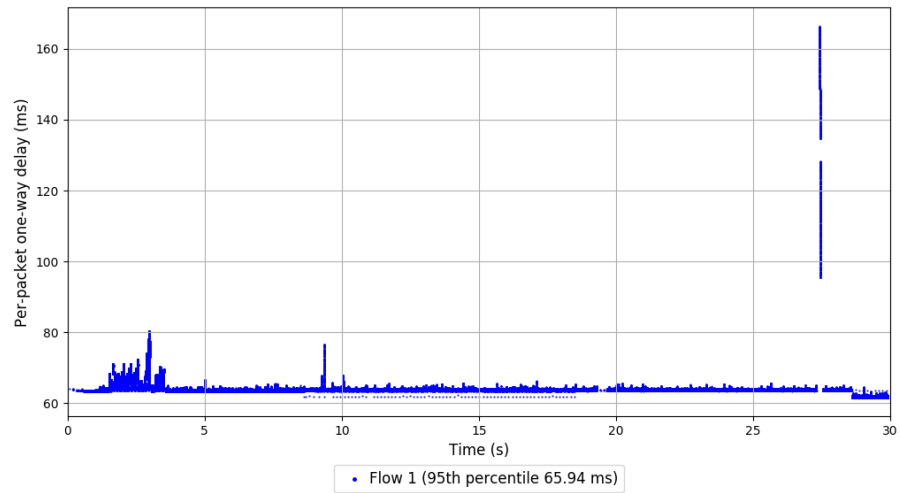
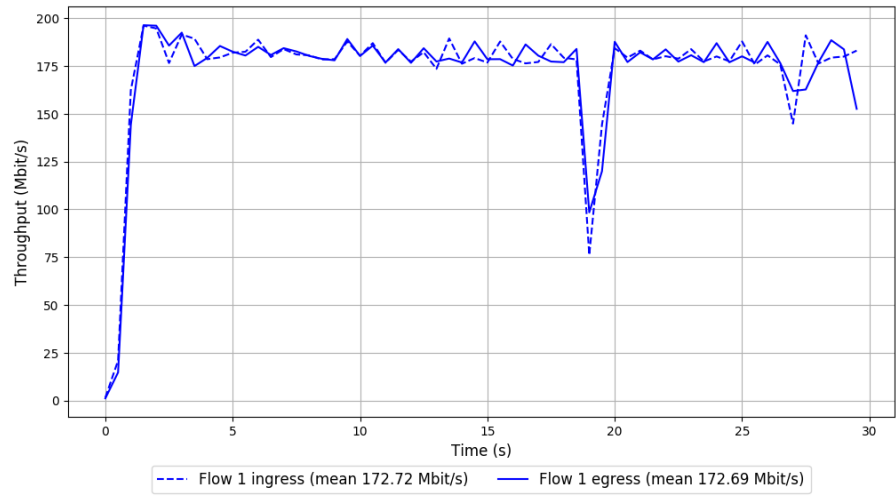
-- Flow 1:

Average throughput: 172.69 Mbit/s

95th percentile per-packet one-way delay: 65.940 ms

Loss rate: 0.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 18:45:51

End at: 2018-04-24 18:46:21

Below is generated by plot.py at 2018-04-24 23:19:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.69 Mbit/s

95th percentile per-packet one-way delay: 72.435 ms

Loss rate: 0.26%

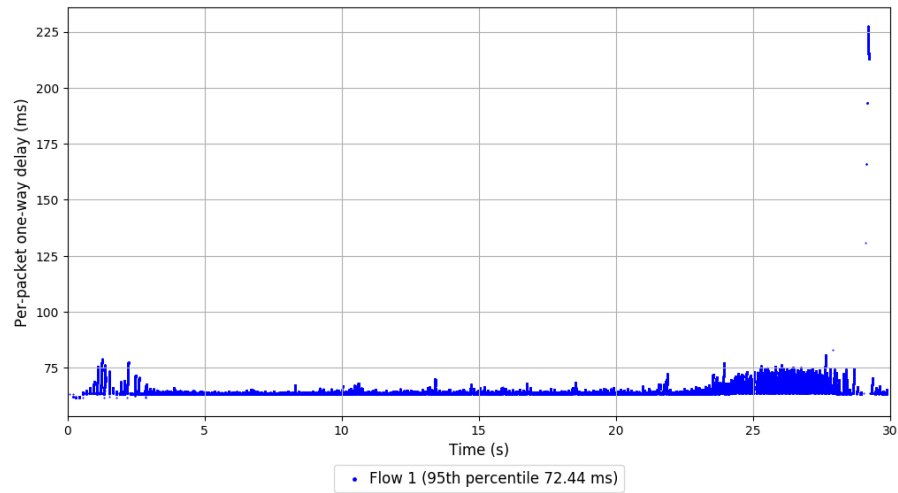
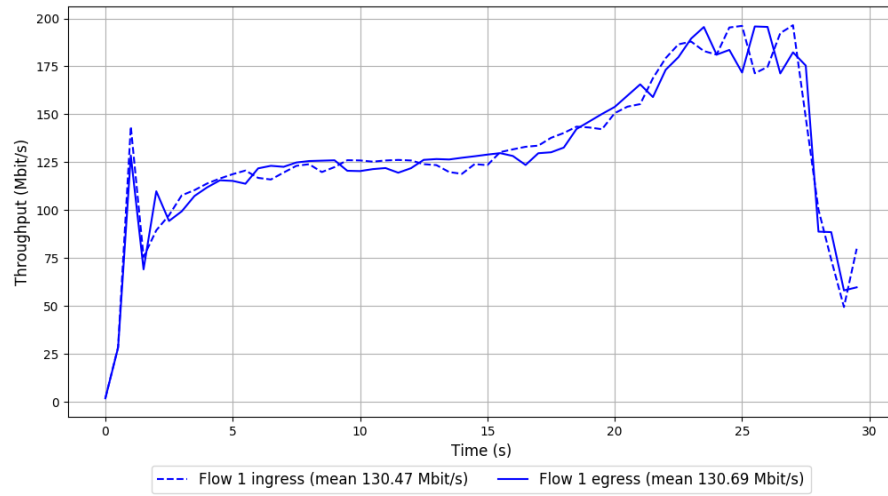
-- Flow 1:

Average throughput: 130.69 Mbit/s

95th percentile per-packet one-way delay: 72.435 ms

Loss rate: 0.26%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 18:59:07

End at: 2018-04-24 18:59:37

Below is generated by plot.py at 2018-04-24 23:19:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.44 Mbit/s

95th percentile per-packet one-way delay: 73.587 ms

Loss rate: 0.45%

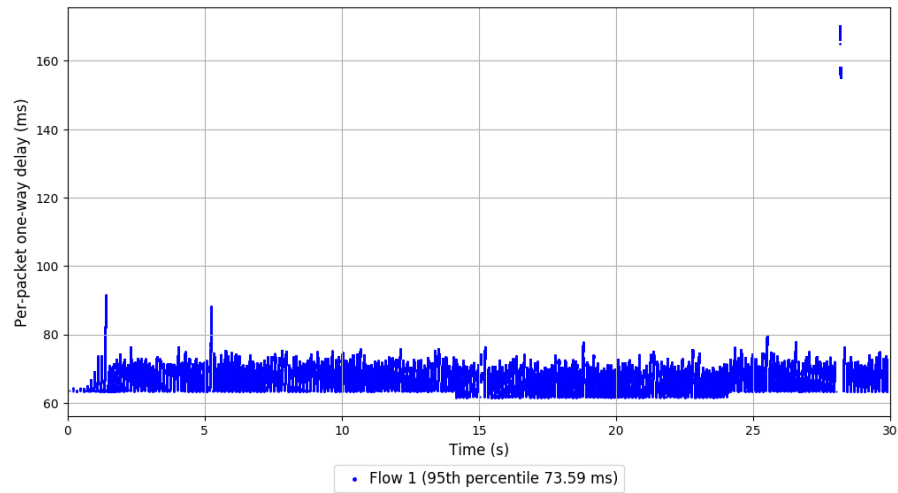
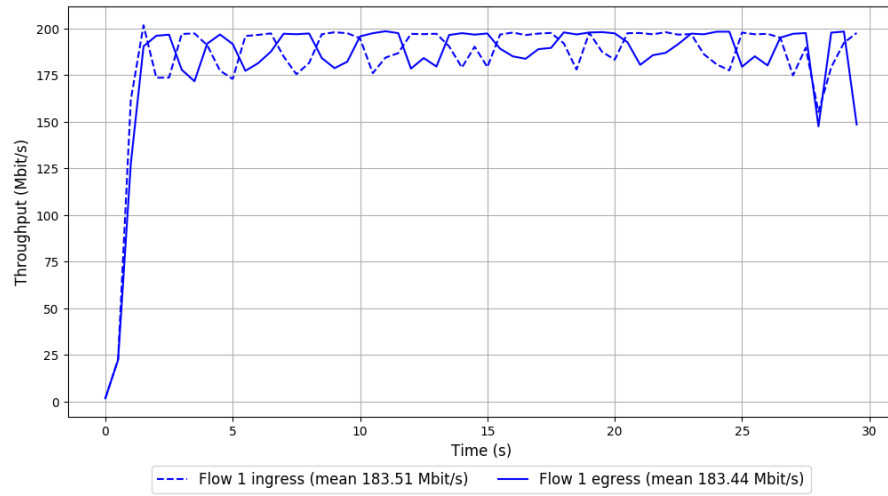
-- Flow 1:

Average throughput: 183.44 Mbit/s

95th percentile per-packet one-way delay: 73.587 ms

Loss rate: 0.45%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 19:12:34

End at: 2018-04-24 19:13:04

Below is generated by plot.py at 2018-04-24 23:19:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.24 Mbit/s

95th percentile per-packet one-way delay: 72.665 ms

Loss rate: 0.48%

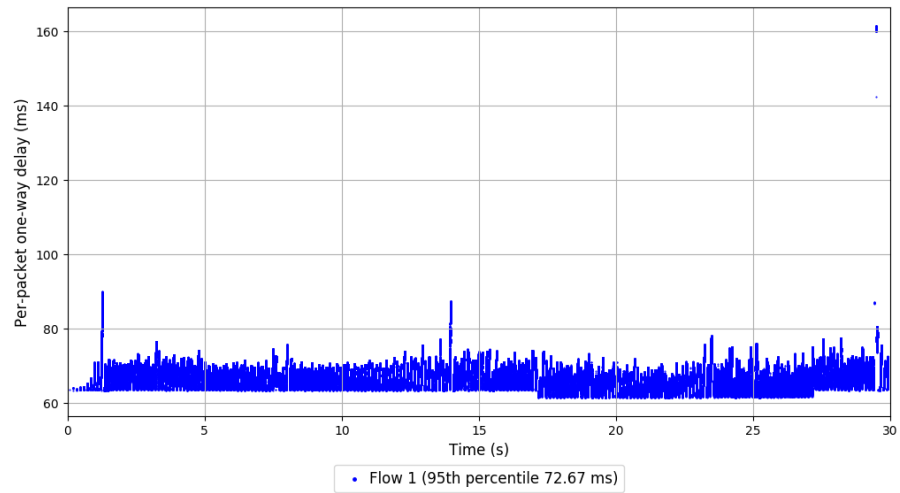
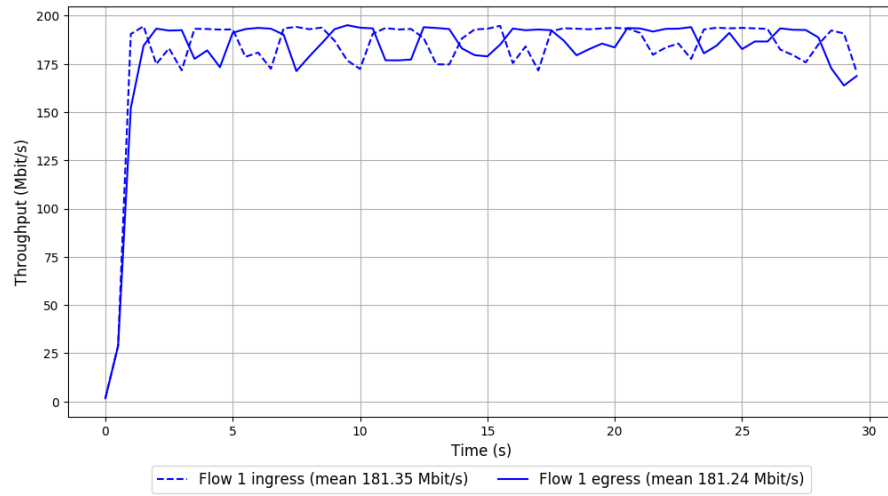
-- Flow 1:

Average throughput: 181.24 Mbit/s

95th percentile per-packet one-way delay: 72.665 ms

Loss rate: 0.48%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 19:25:50

End at: 2018-04-24 19:26:20

Below is generated by plot.py at 2018-04-24 23:19:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.02 Mbit/s

95th percentile per-packet one-way delay: 71.763 ms

Loss rate: 0.27%

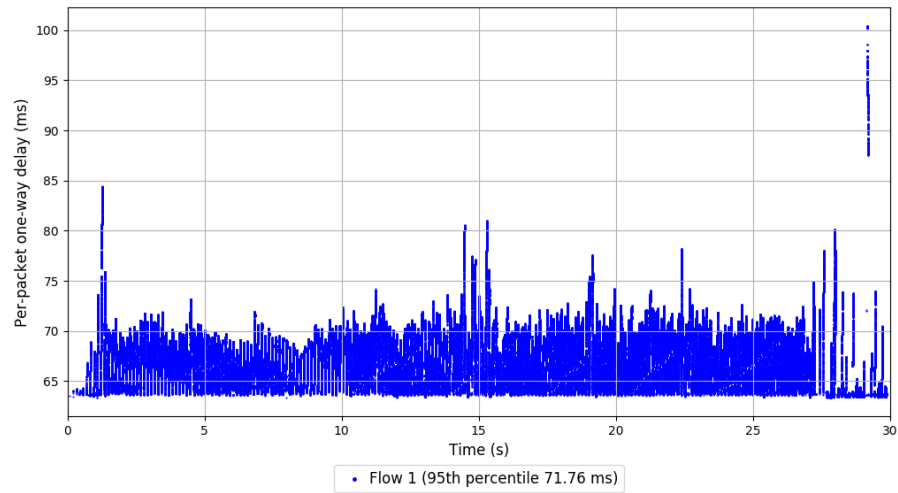
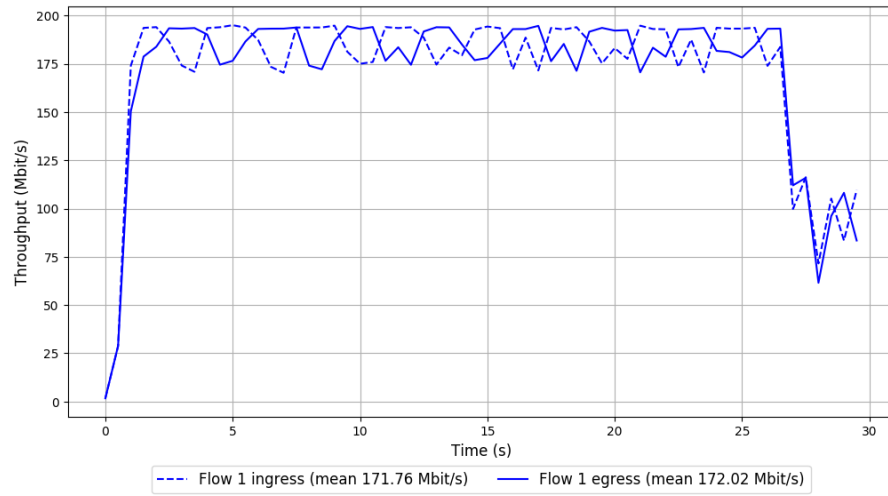
-- Flow 1:

Average throughput: 172.02 Mbit/s

95th percentile per-packet one-way delay: 71.763 ms

Loss rate: 0.27%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 19:39:17

End at: 2018-04-24 19:39:47

Below is generated by plot.py at 2018-04-24 23:19:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.72 Mbit/s

95th percentile per-packet one-way delay: 71.503 ms

Loss rate: 0.25%

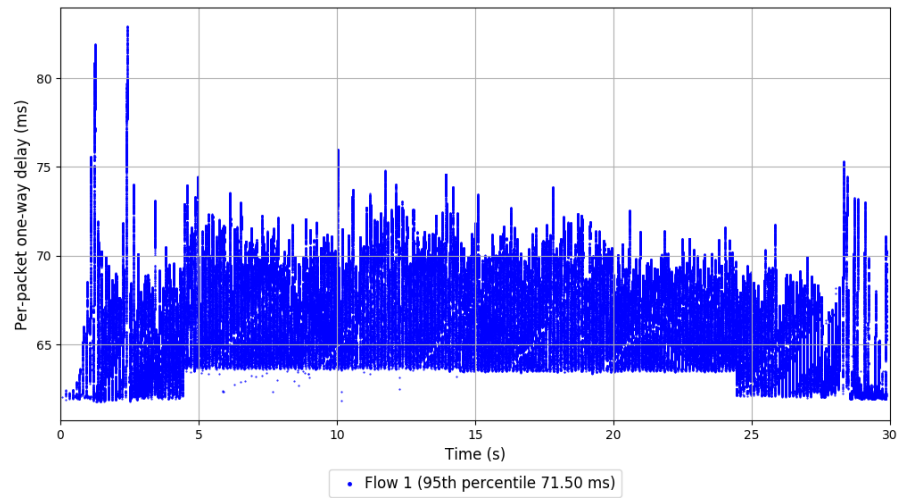
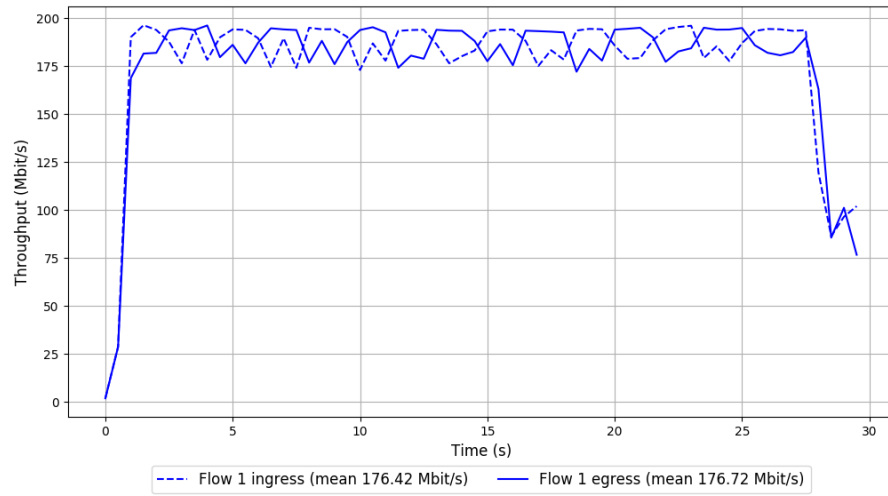
-- Flow 1:

Average throughput: 176.72 Mbit/s

95th percentile per-packet one-way delay: 71.503 ms

Loss rate: 0.25%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 19:52:43

End at: 2018-04-24 19:53:13

Below is generated by plot.py at 2018-04-24 23:19:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.74 Mbit/s

95th percentile per-packet one-way delay: 70.723 ms

Loss rate: 0.58%

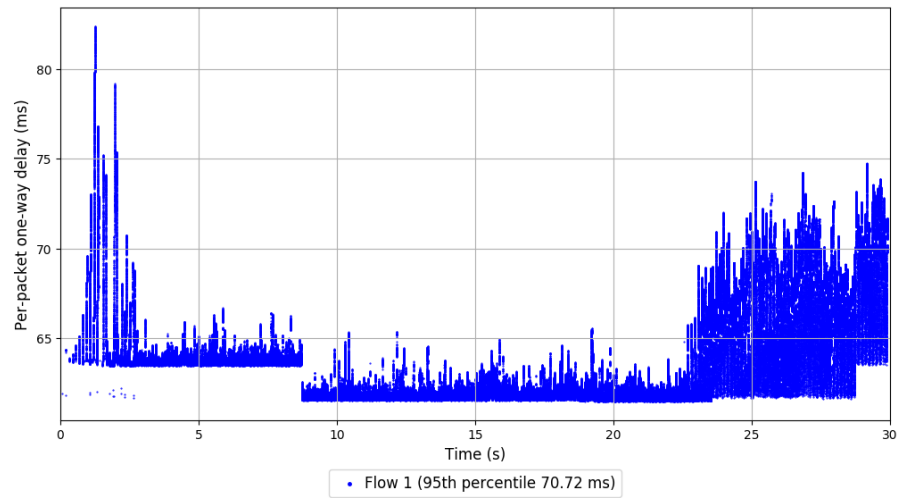
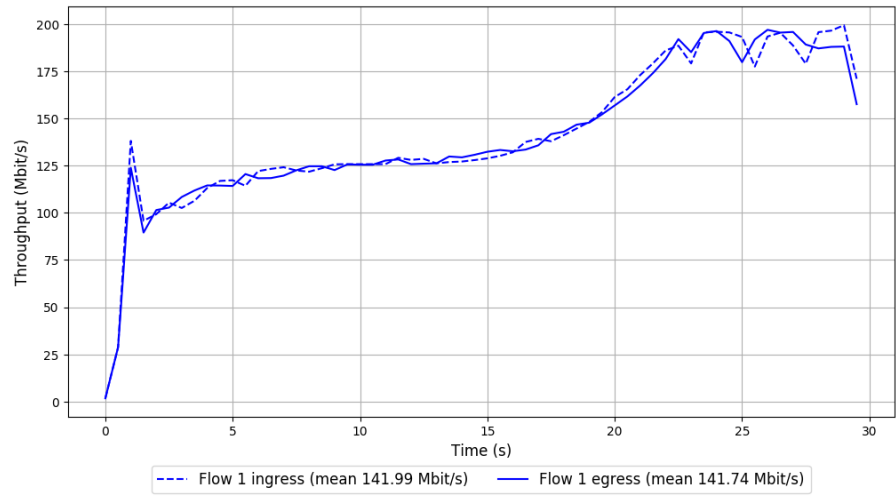
-- Flow 1:

Average throughput: 141.74 Mbit/s

95th percentile per-packet one-way delay: 70.723 ms

Loss rate: 0.58%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 20:05:57

End at: 2018-04-24 20:06:27

Below is generated by plot.py at 2018-04-24 23:21:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.48 Mbit/s

95th percentile per-packet one-way delay: 72.839 ms

Loss rate: 0.44%

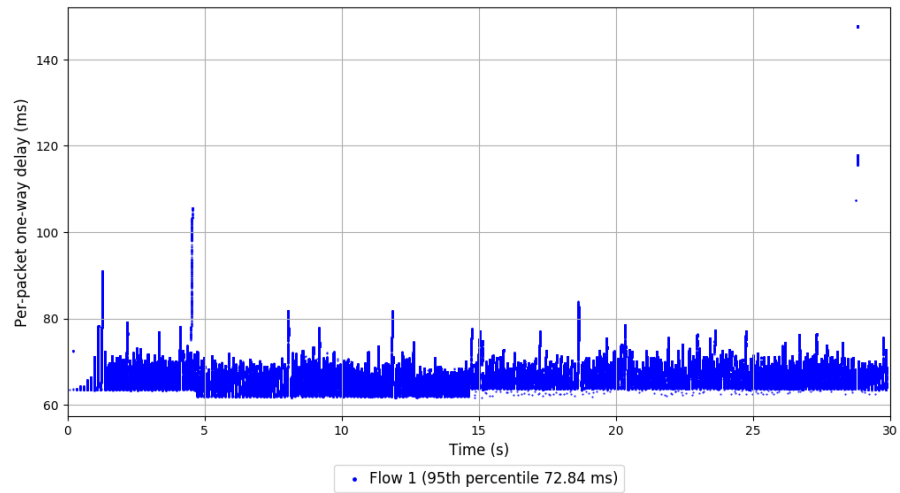
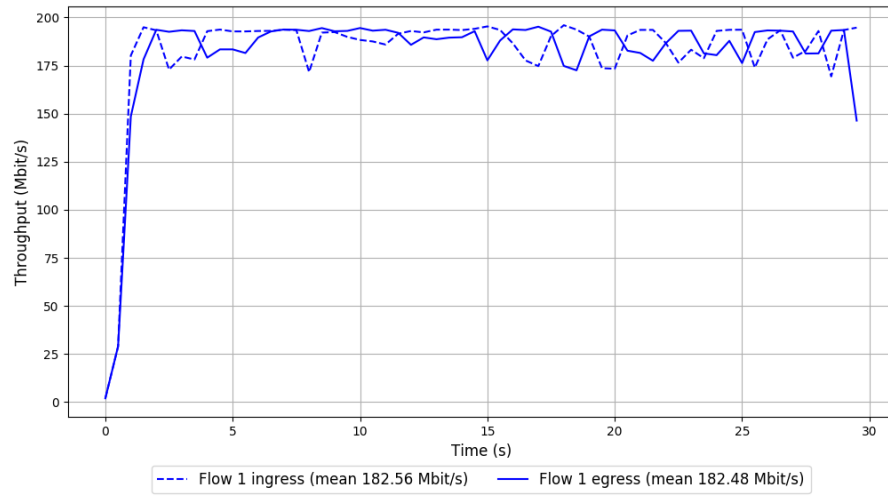
-- Flow 1:

Average throughput: 182.48 Mbit/s

95th percentile per-packet one-way delay: 72.839 ms

Loss rate: 0.44%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 20:19:27

End at: 2018-04-24 20:19:57

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.10 Mbit/s

95th percentile per-packet one-way delay: 74.257 ms

Loss rate: 0.20%

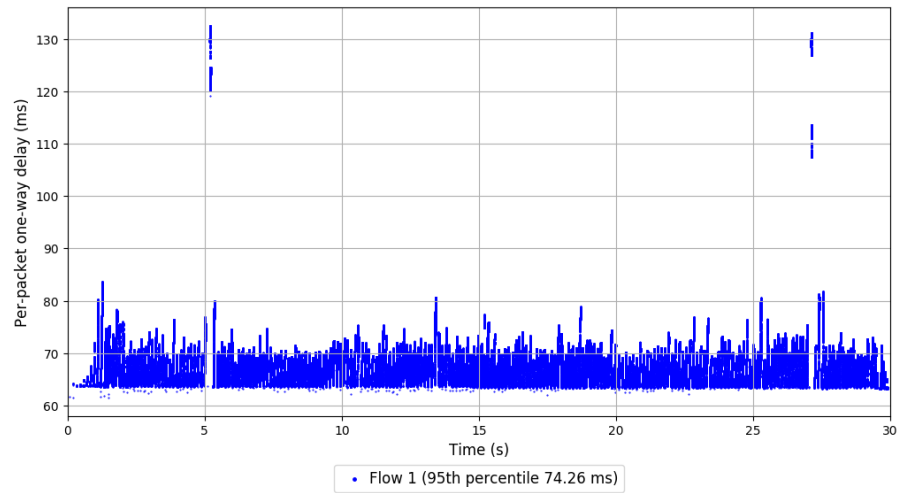
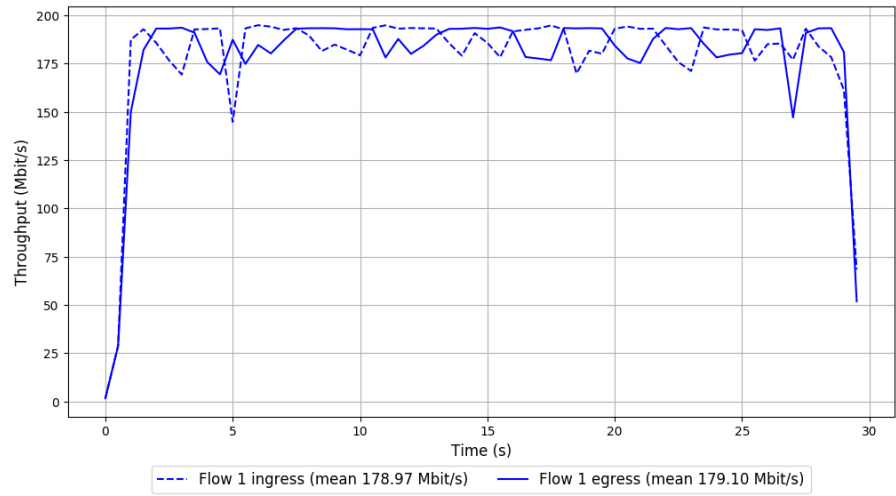
-- Flow 1:

Average throughput: 179.10 Mbit/s

95th percentile per-packet one-way delay: 74.257 ms

Loss rate: 0.20%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 20:33:07

End at: 2018-04-24 20:33:37

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.78 Mbit/s

95th percentile per-packet one-way delay: 71.826 ms

Loss rate: 0.36%

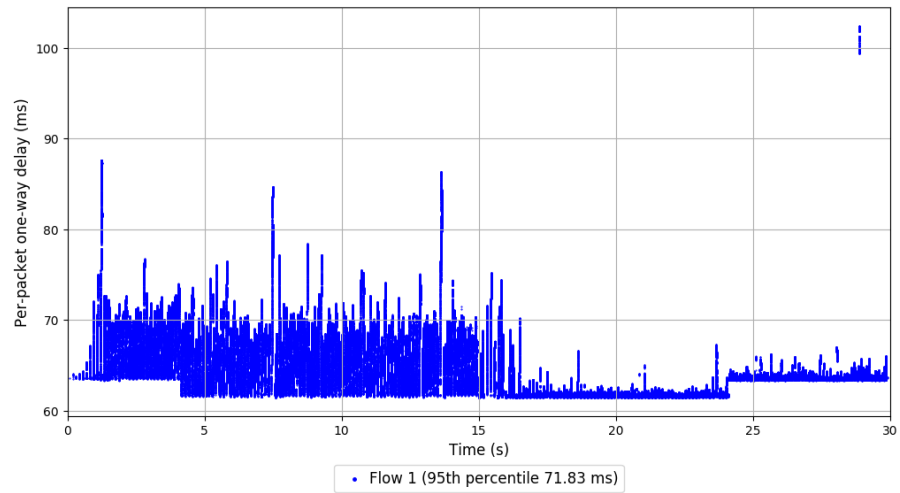
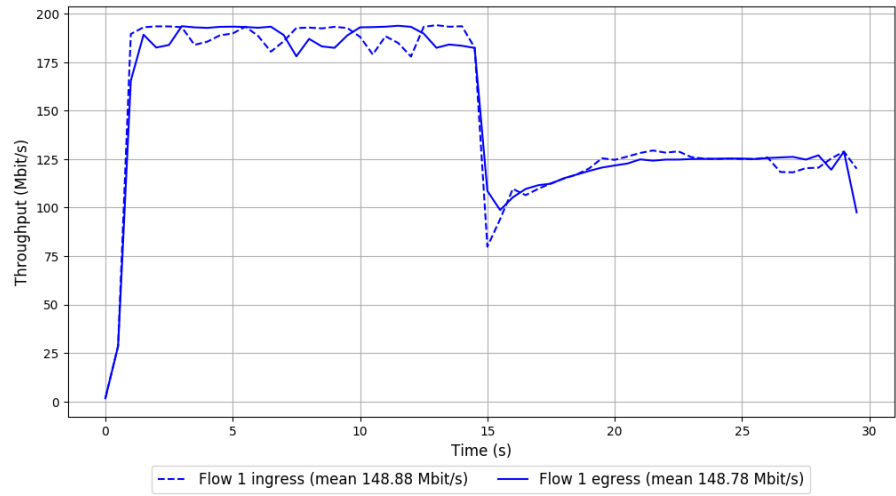
-- Flow 1:

Average throughput: 148.78 Mbit/s

95th percentile per-packet one-way delay: 71.826 ms

Loss rate: 0.36%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 20:46:40

End at: 2018-04-24 20:47:10

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.47 Mbit/s

95th percentile per-packet one-way delay: 70.542 ms

Loss rate: 0.33%

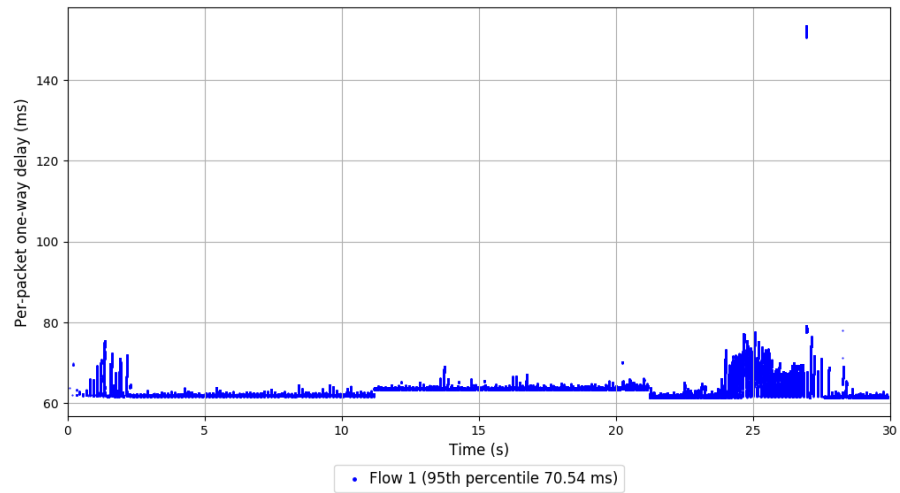
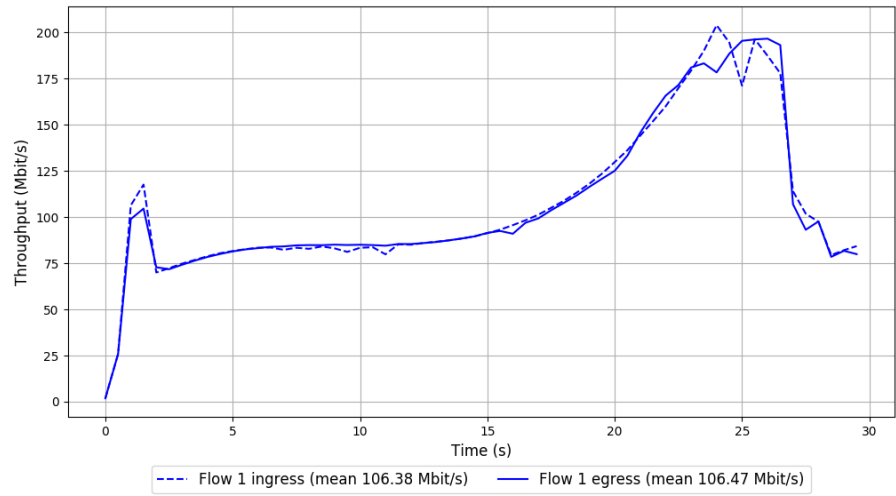
-- Flow 1:

Average throughput: 106.47 Mbit/s

95th percentile per-packet one-way delay: 70.542 ms

Loss rate: 0.33%

Run 10: Report of TCP Cubic — Data Link

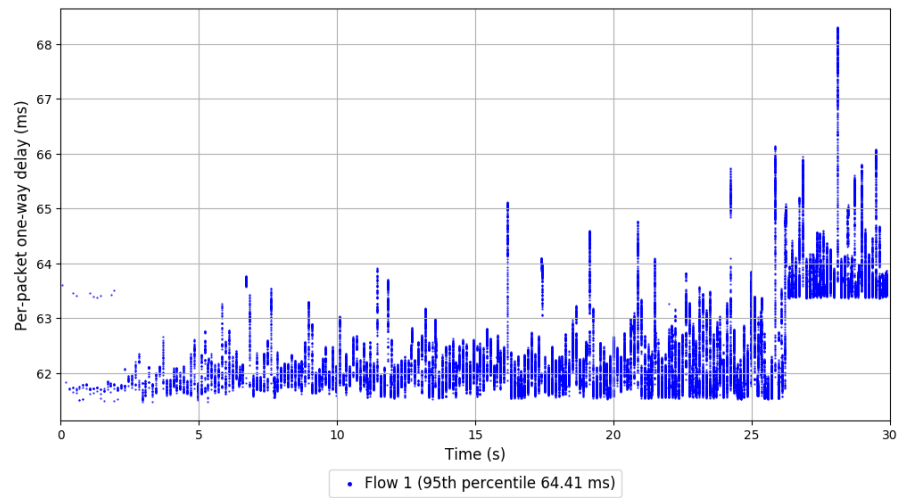
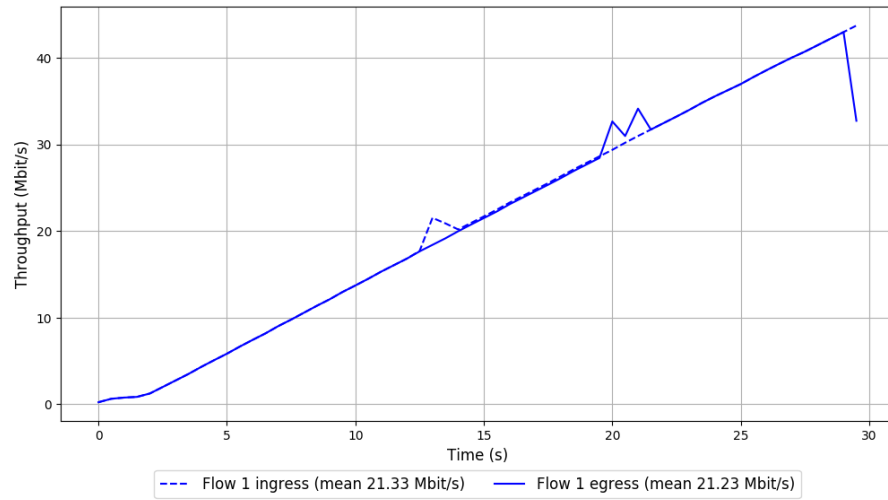


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 18:46:35
End at: 2018-04-24 18:47:05

# Below is generated by plot.py at 2018-04-24 23:21:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 64.408 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 21.23 Mbit/s
95th percentile per-packet one-way delay: 64.408 ms
Loss rate: 0.86%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-24 18:59:54

End at: 2018-04-24 19:00:24

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 65.118 ms

Loss rate: 0.62%

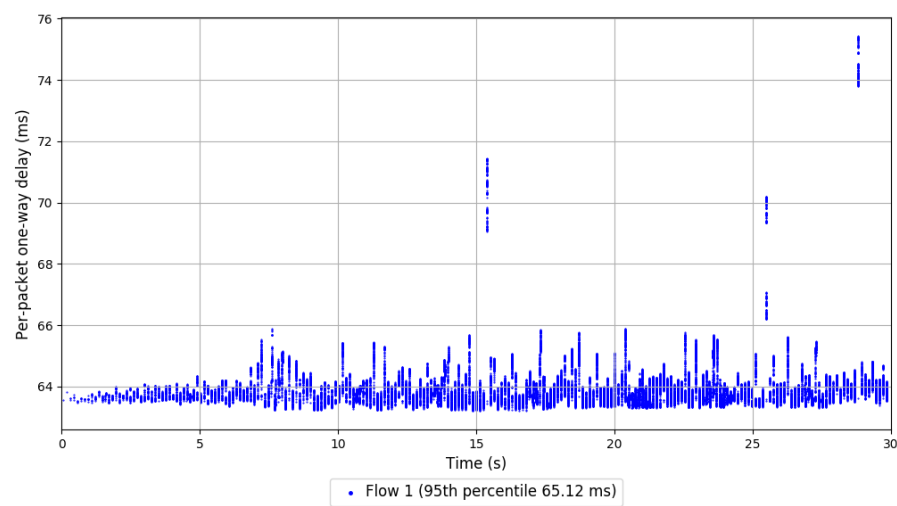
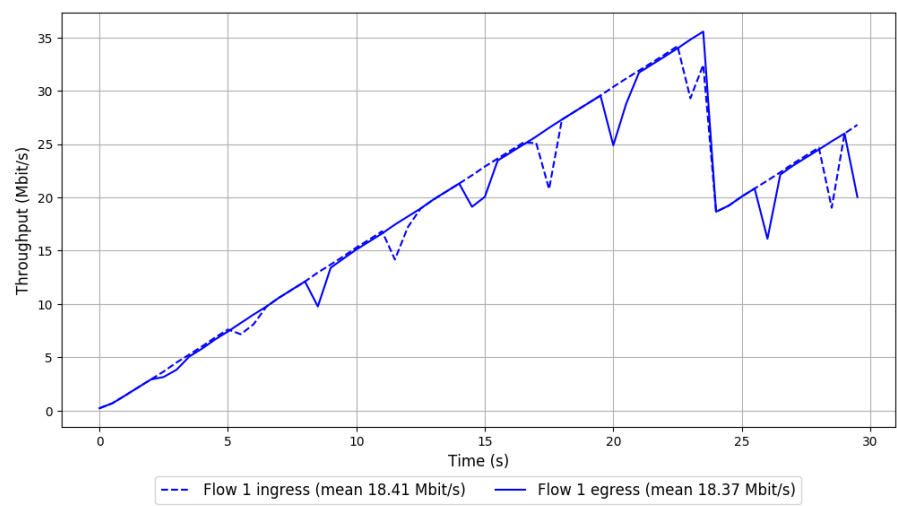
-- Flow 1:

Average throughput: 18.37 Mbit/s

95th percentile per-packet one-way delay: 65.118 ms

Loss rate: 0.62%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-24 19:13:21

End at: 2018-04-24 19:13:51

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 65.654 ms

Loss rate: 0.83%

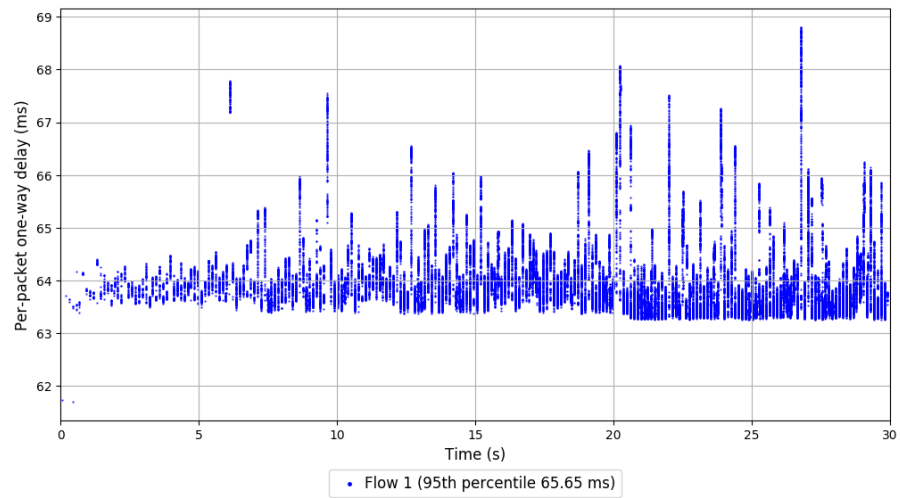
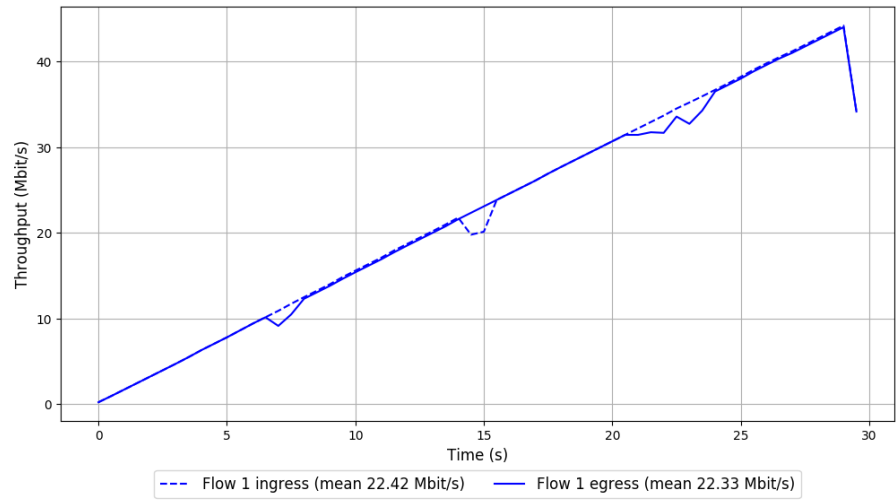
-- Flow 1:

Average throughput: 22.33 Mbit/s

95th percentile per-packet one-way delay: 65.654 ms

Loss rate: 0.83%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-24 19:26:36

End at: 2018-04-24 19:27:06

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.44 Mbit/s

95th percentile per-packet one-way delay: 65.146 ms

Loss rate: 0.83%

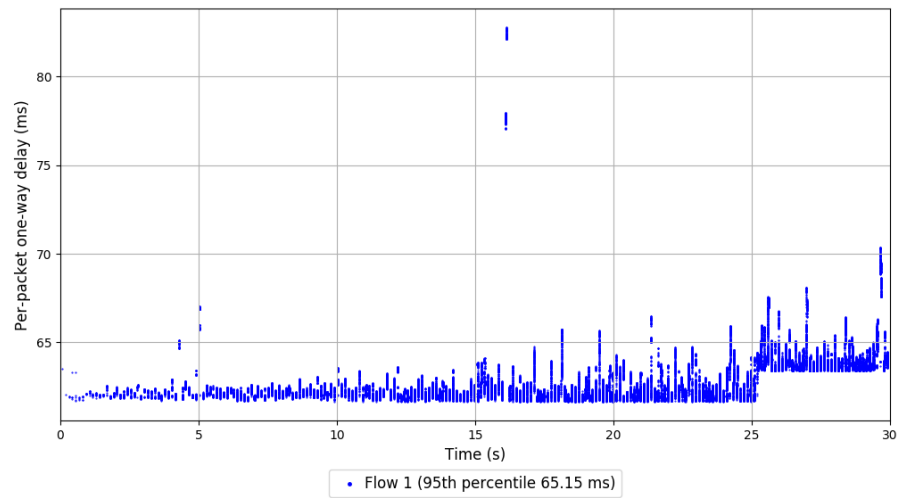
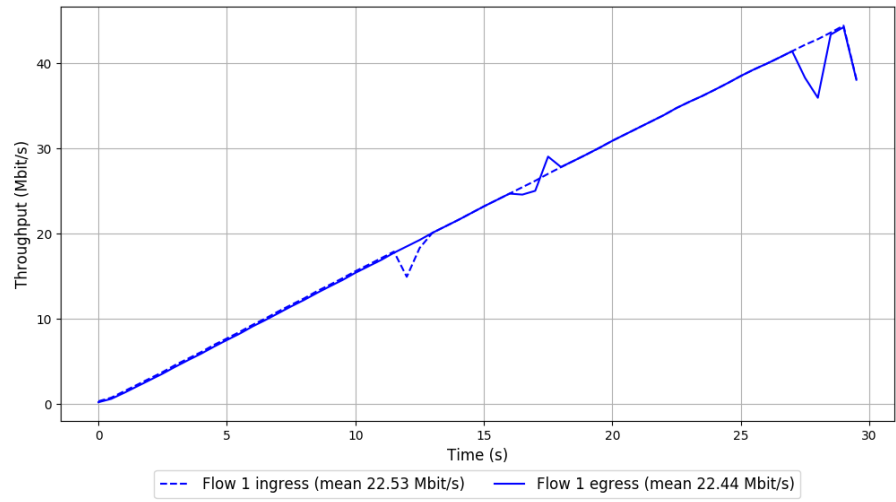
-- Flow 1:

Average throughput: 22.44 Mbit/s

95th percentile per-packet one-way delay: 65.146 ms

Loss rate: 0.83%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-24 19:40:03

End at: 2018-04-24 19:40:33

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.13 Mbit/s

95th percentile per-packet one-way delay: 64.565 ms

Loss rate: 0.85%

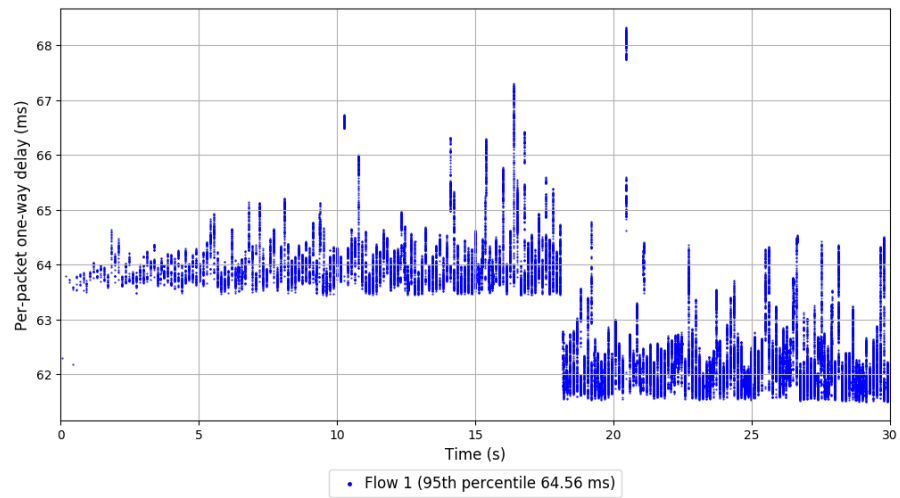
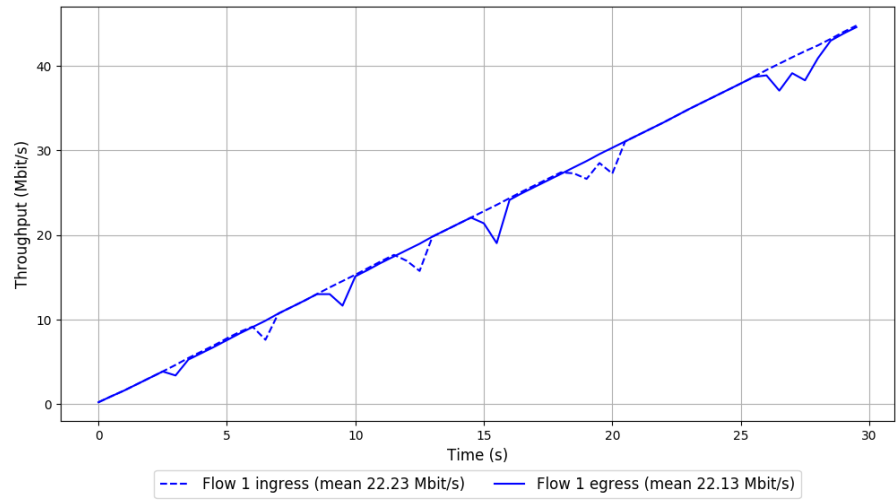
-- Flow 1:

Average throughput: 22.13 Mbit/s

95th percentile per-packet one-way delay: 64.565 ms

Loss rate: 0.85%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-24 19:53:28

End at: 2018-04-24 19:53:58

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 65.272 ms

Loss rate: 0.88%

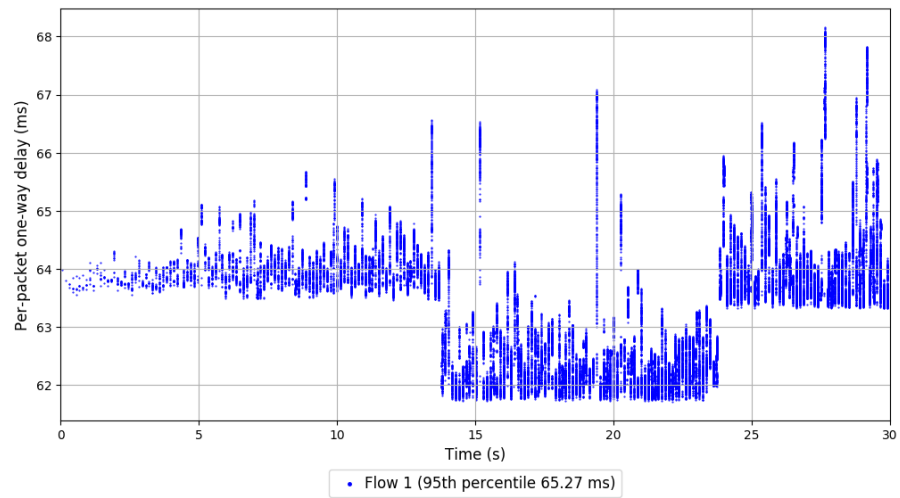
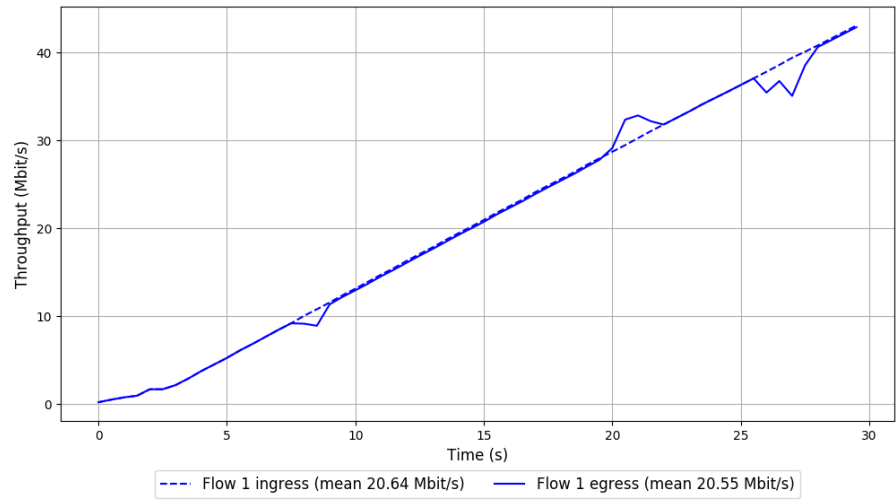
-- Flow 1:

Average throughput: 20.55 Mbit/s

95th percentile per-packet one-way delay: 65.272 ms

Loss rate: 0.88%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-24 20:06:44

End at: 2018-04-24 20:07:14

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 65.358 ms

Loss rate: 0.84%

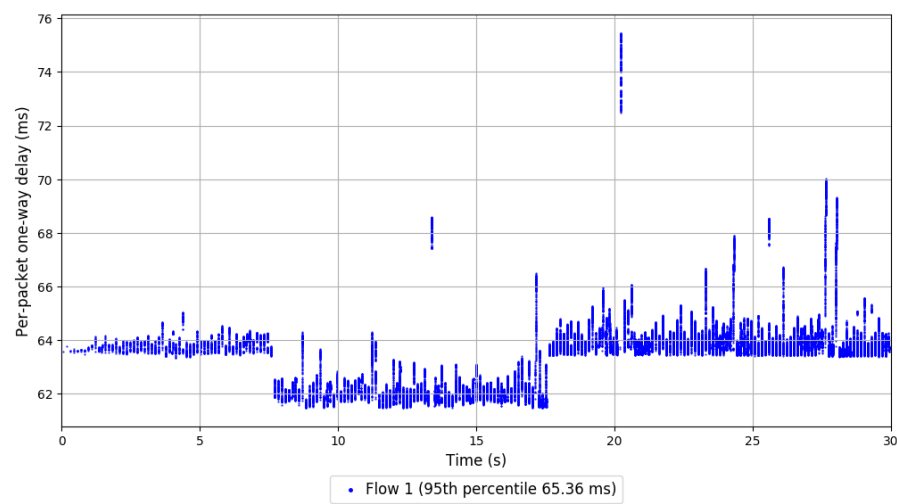
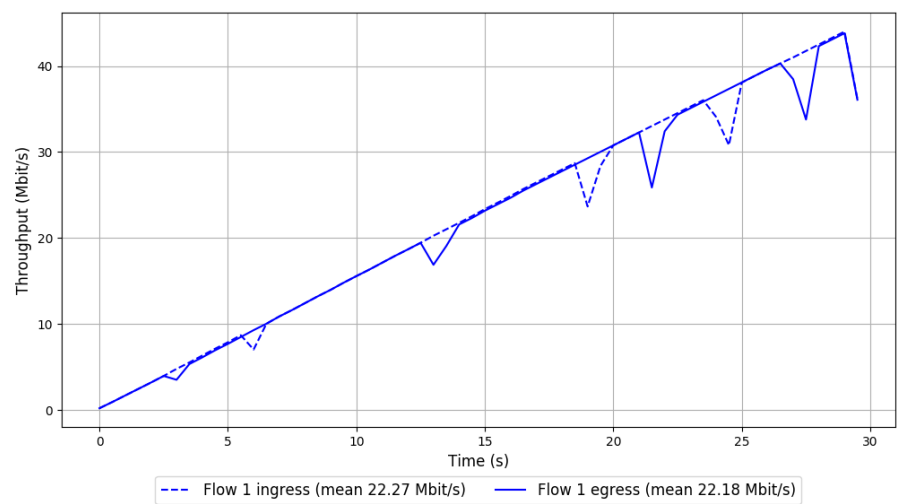
-- Flow 1:

Average throughput: 22.18 Mbit/s

95th percentile per-packet one-way delay: 65.358 ms

Loss rate: 0.84%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-24 20:20:13

End at: 2018-04-24 20:20:43

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.57 Mbit/s

95th percentile per-packet one-way delay: 64.442 ms

Loss rate: 0.83%

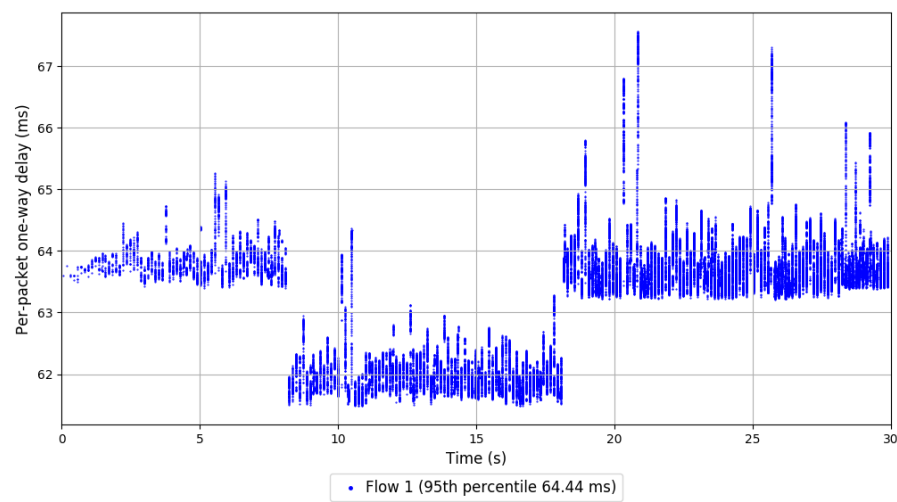
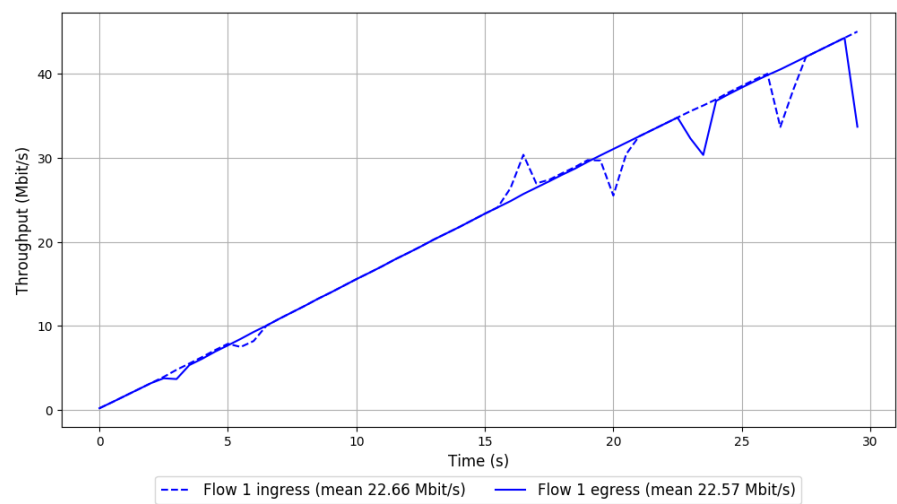
-- Flow 1:

Average throughput: 22.57 Mbit/s

95th percentile per-packet one-way delay: 64.442 ms

Loss rate: 0.83%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-24 20:33:57

End at: 2018-04-24 20:34:27

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.79 Mbit/s

95th percentile per-packet one-way delay: 64.827 ms

Loss rate: 0.85%

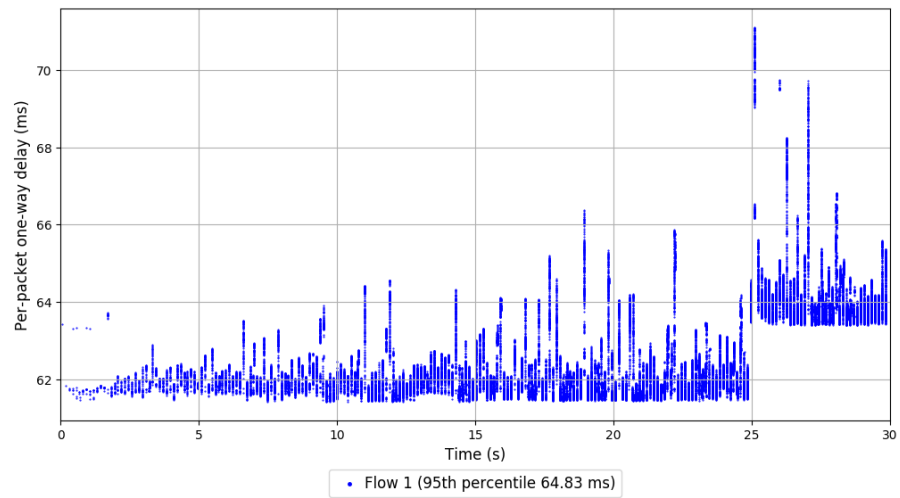
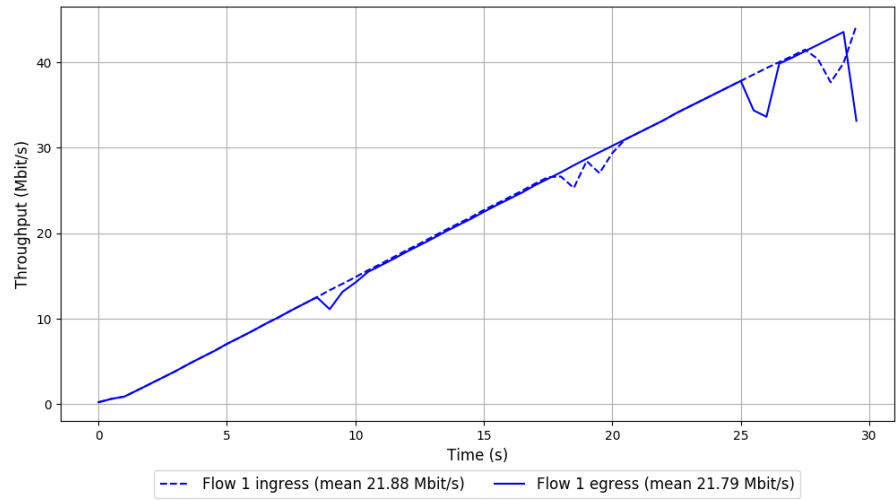
-- Flow 1:

Average throughput: 21.79 Mbit/s

95th percentile per-packet one-way delay: 64.827 ms

Loss rate: 0.85%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-24 20:47:23

End at: 2018-04-24 20:47:53

Below is generated by plot.py at 2018-04-24 23:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.42 Mbit/s

95th percentile per-packet one-way delay: 64.845 ms

Loss rate: 0.84%

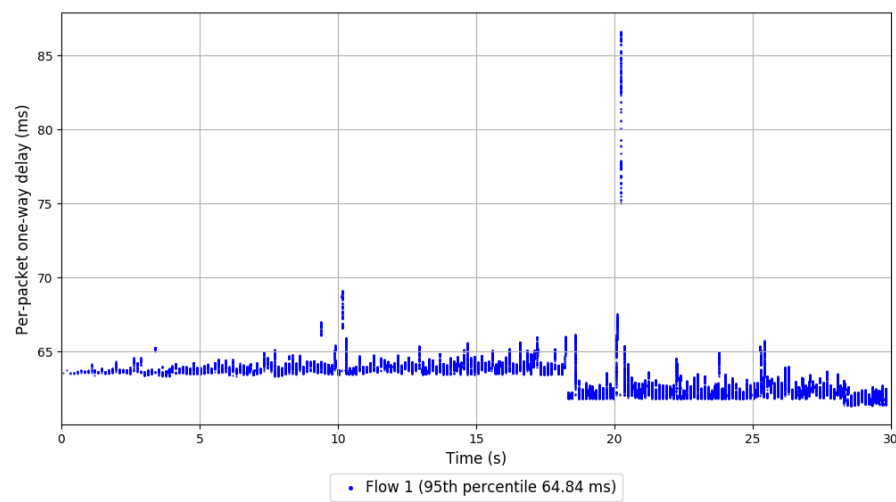
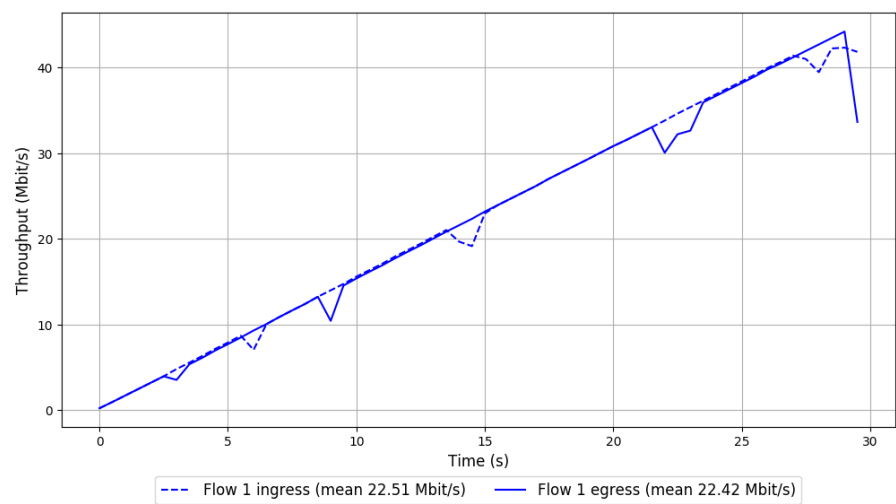
-- Flow 1:

Average throughput: 22.42 Mbit/s

95th percentile per-packet one-way delay: 64.845 ms

Loss rate: 0.84%

Run 10: Report of LEDBAT — Data Link

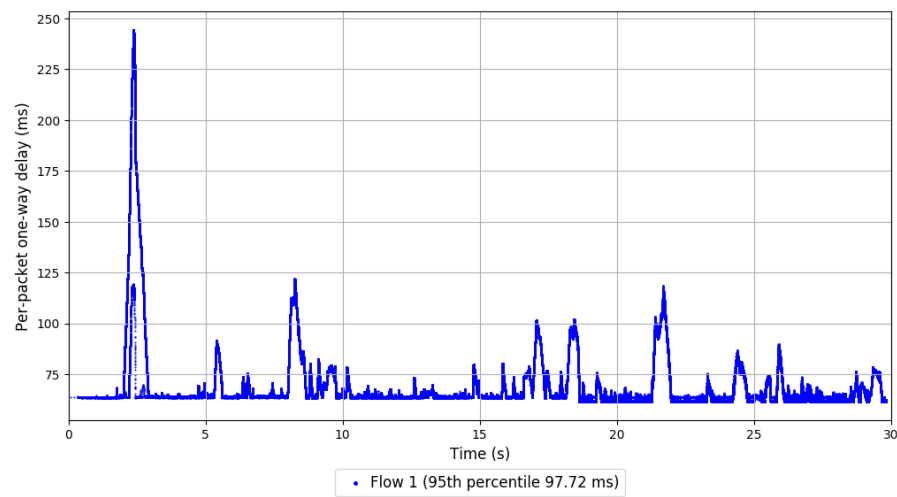
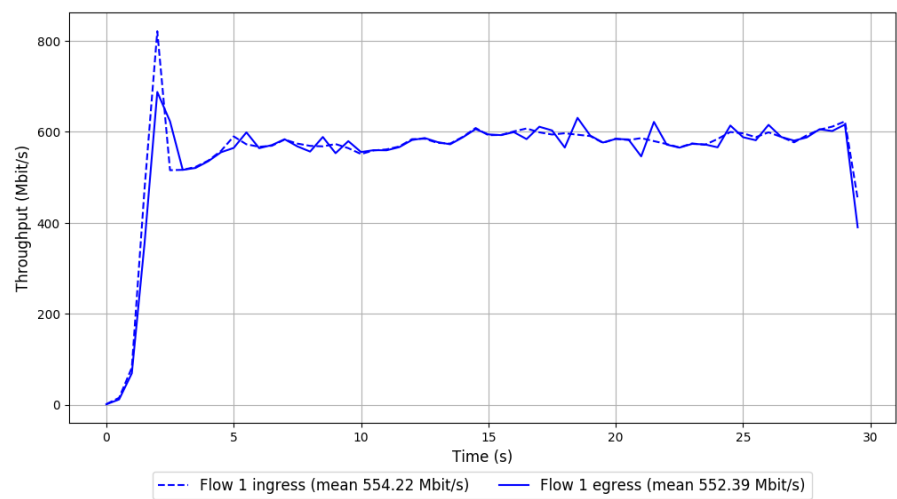


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 18:44:53
End at: 2018-04-24 18:45:23

# Below is generated by plot.py at 2018-04-24 23:30:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 552.39 Mbit/s
95th percentile per-packet one-way delay: 97.719 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 552.39 Mbit/s
95th percentile per-packet one-way delay: 97.719 ms
Loss rate: 0.76%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 18:58:10

End at: 2018-04-24 18:58:40

Below is generated by plot.py at 2018-04-24 23:30:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.08 Mbit/s

95th percentile per-packet one-way delay: 197.512 ms

Loss rate: 1.96%

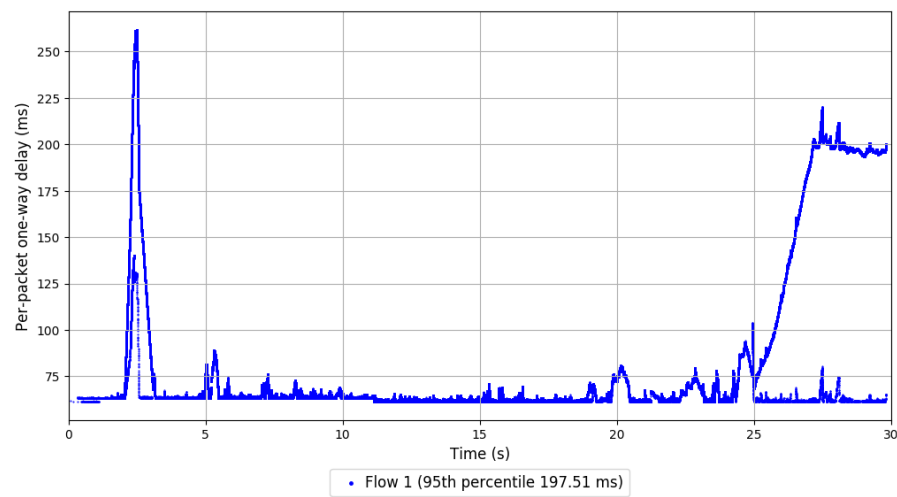
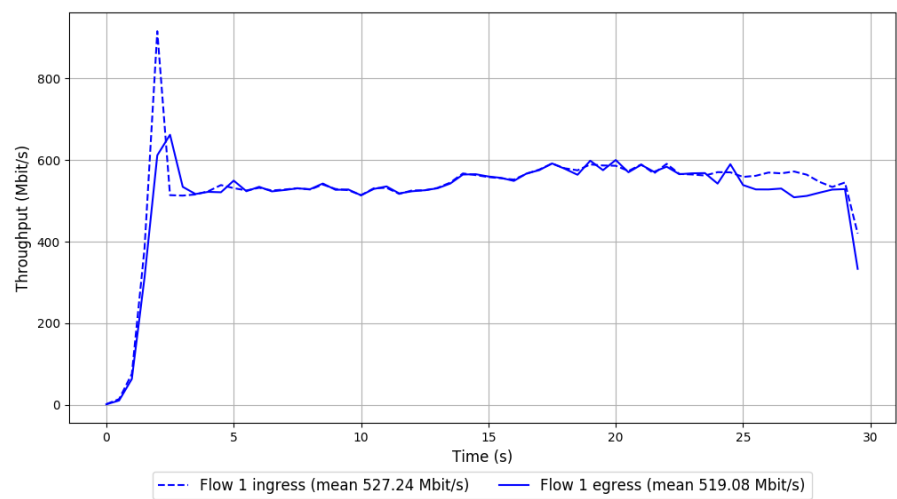
-- Flow 1:

Average throughput: 519.08 Mbit/s

95th percentile per-packet one-way delay: 197.512 ms

Loss rate: 1.96%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 19:11:38

End at: 2018-04-24 19:12:08

Below is generated by plot.py at 2018-04-24 23:30:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.86 Mbit/s

95th percentile per-packet one-way delay: 138.530 ms

Loss rate: 1.30%

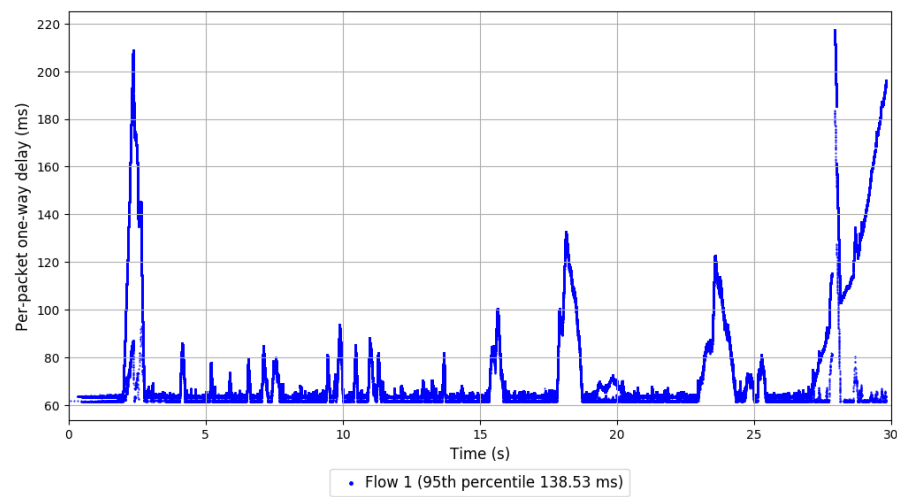
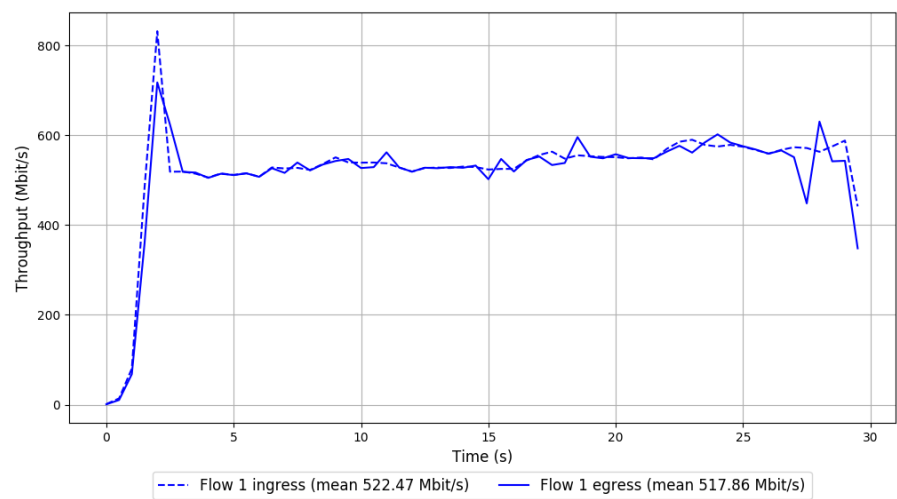
-- Flow 1:

Average throughput: 517.86 Mbit/s

95th percentile per-packet one-way delay: 138.530 ms

Loss rate: 1.30%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 19:24:52

End at: 2018-04-24 19:25:22

Below is generated by plot.py at 2018-04-24 23:30:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.54 Mbit/s

95th percentile per-packet one-way delay: 149.606 ms

Loss rate: 1.99%

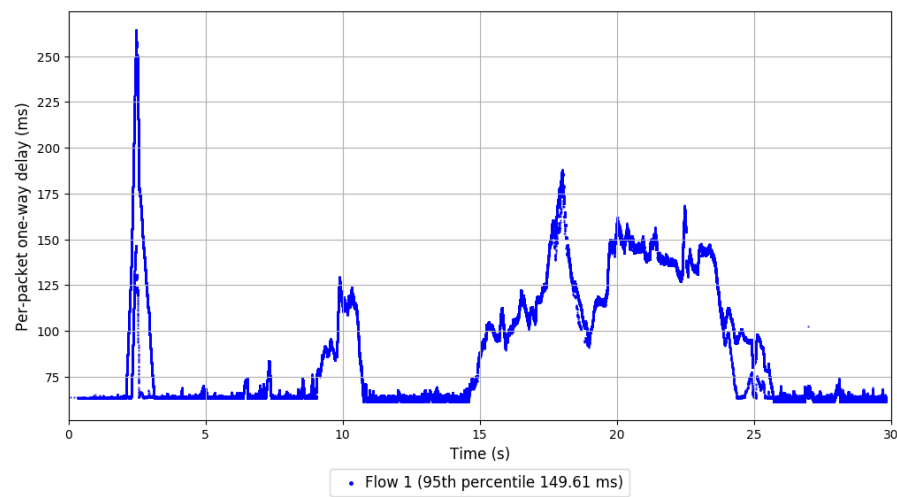
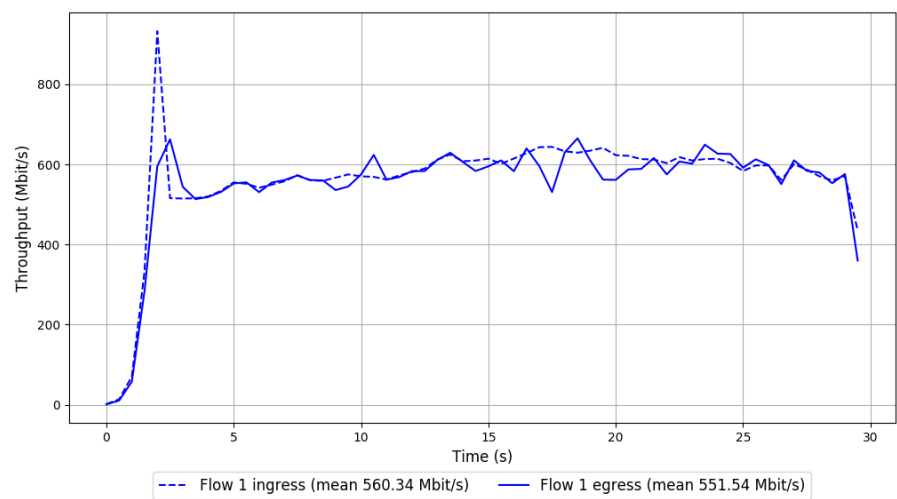
-- Flow 1:

Average throughput: 551.54 Mbit/s

95th percentile per-packet one-way delay: 149.606 ms

Loss rate: 1.99%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 19:38:21

End at: 2018-04-24 19:38:51

Below is generated by plot.py at 2018-04-24 23:30:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.22 Mbit/s

95th percentile per-packet one-way delay: 204.664 ms

Loss rate: 2.88%

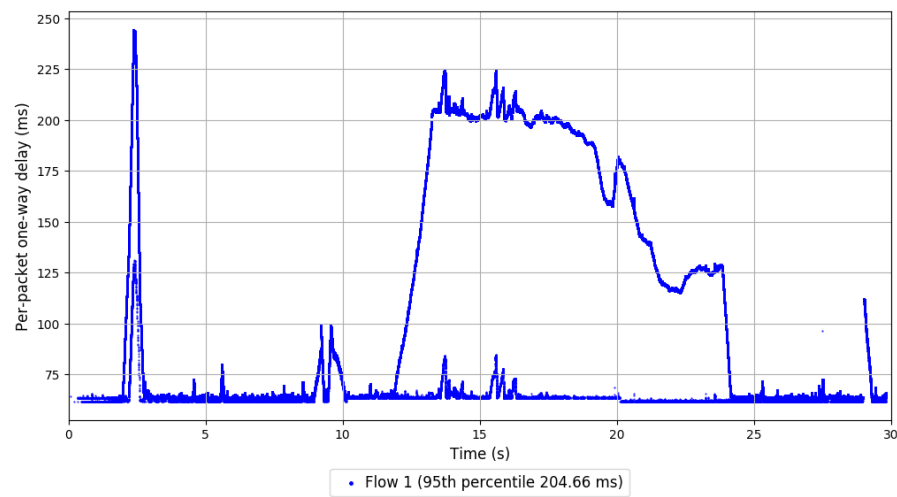
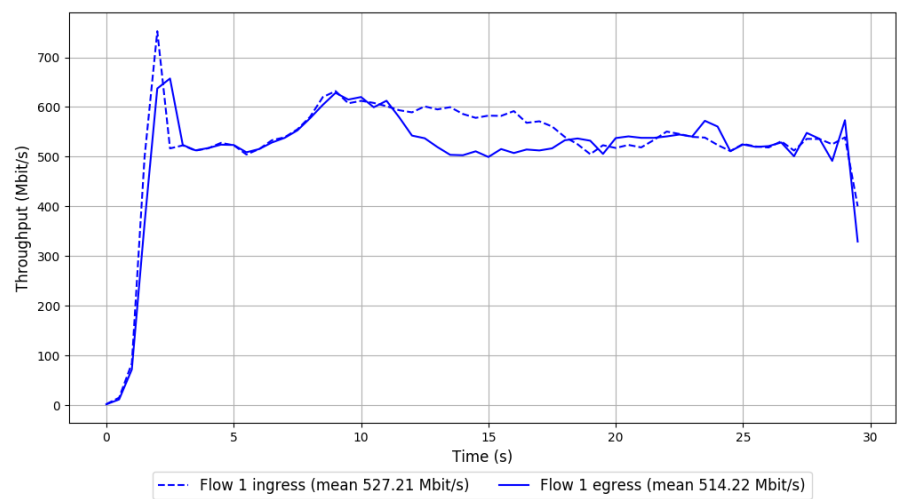
-- Flow 1:

Average throughput: 514.22 Mbit/s

95th percentile per-packet one-way delay: 204.664 ms

Loss rate: 2.88%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 19:51:44

End at: 2018-04-24 19:52:14

Below is generated by plot.py at 2018-04-24 23:32:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 564.21 Mbit/s

95th percentile per-packet one-way delay: 199.772 ms

Loss rate: 2.84%

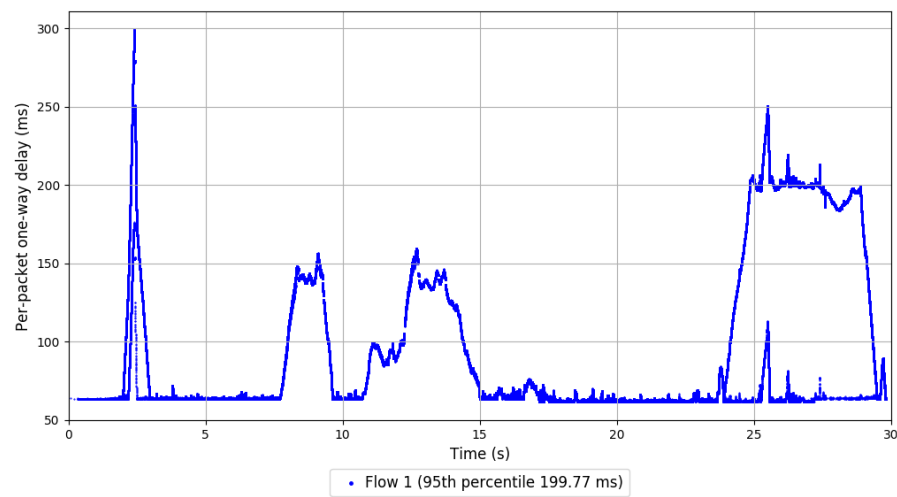
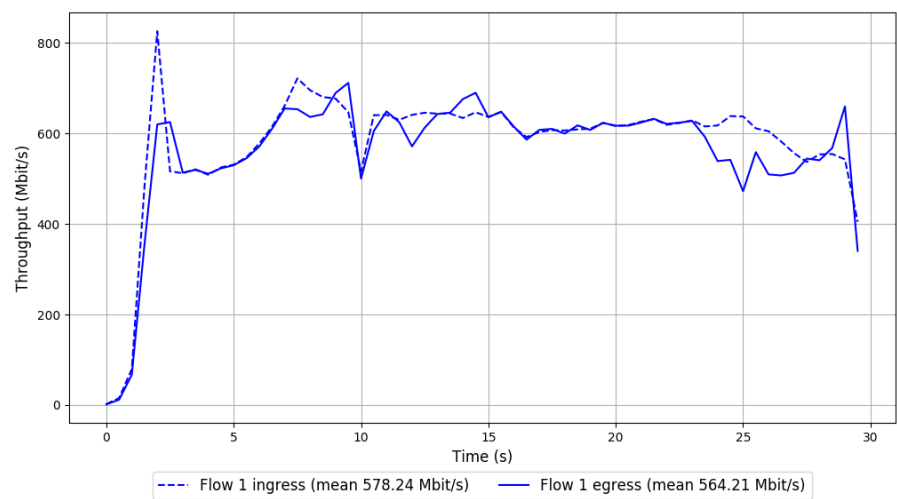
-- Flow 1:

Average throughput: 564.21 Mbit/s

95th percentile per-packet one-way delay: 199.772 ms

Loss rate: 2.84%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 20:05:01

End at: 2018-04-24 20:05:31

Below is generated by plot.py at 2018-04-24 23:32:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.08 Mbit/s

95th percentile per-packet one-way delay: 89.213 ms

Loss rate: 1.19%

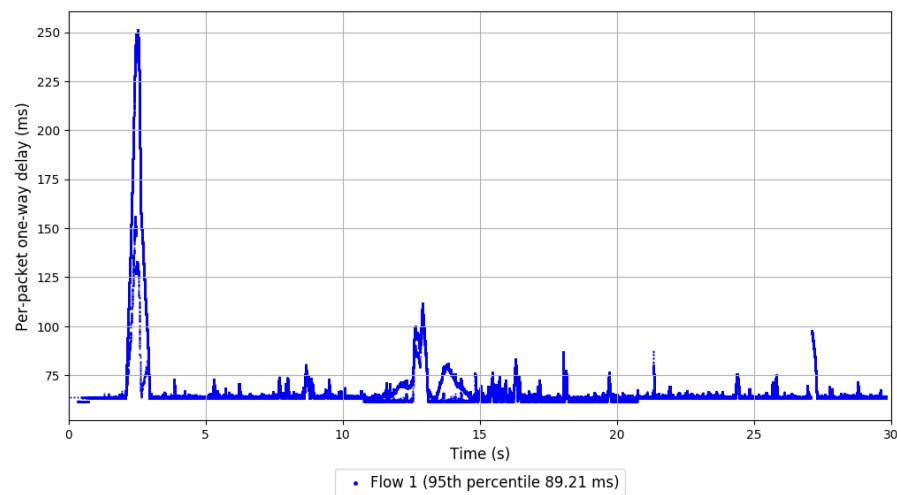
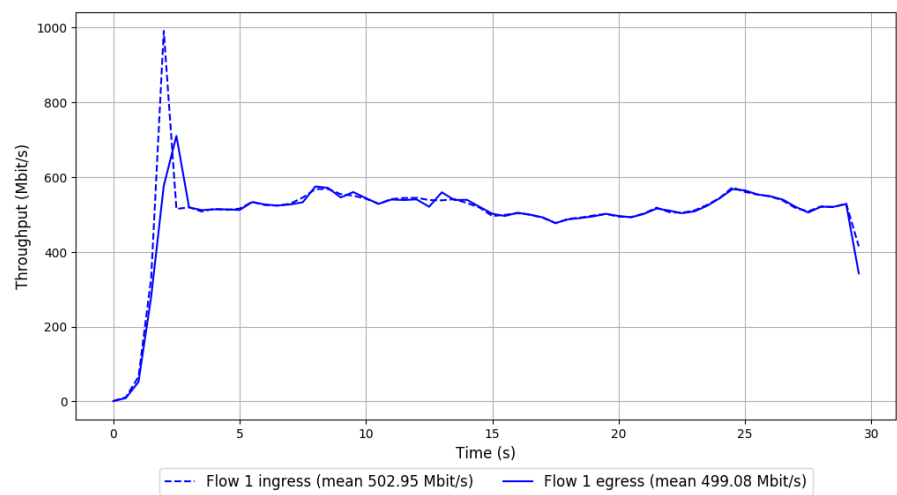
-- Flow 1:

Average throughput: 499.08 Mbit/s

95th percentile per-packet one-way delay: 89.213 ms

Loss rate: 1.19%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 20:18:30

End at: 2018-04-24 20:19:00

Below is generated by plot.py at 2018-04-24 23:32:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.12 Mbit/s

95th percentile per-packet one-way delay: 148.671 ms

Loss rate: 1.39%

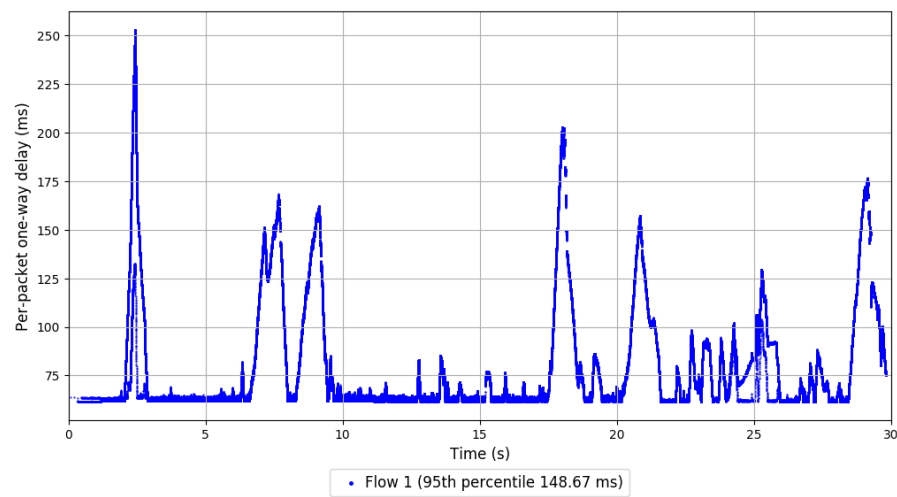
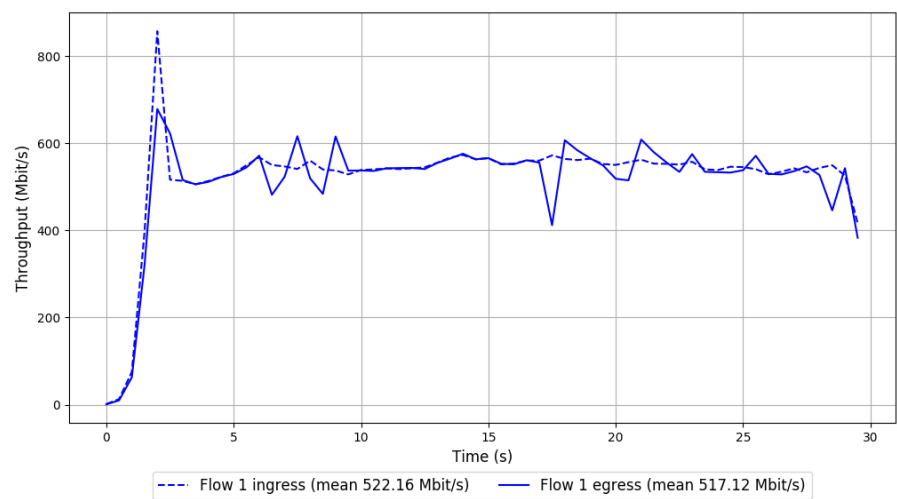
-- Flow 1:

Average throughput: 517.12 Mbit/s

95th percentile per-packet one-way delay: 148.671 ms

Loss rate: 1.39%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 20:32:09

End at: 2018-04-24 20:32:39

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.34 Mbit/s

95th percentile per-packet one-way delay: 100.332 ms

Loss rate: 1.19%

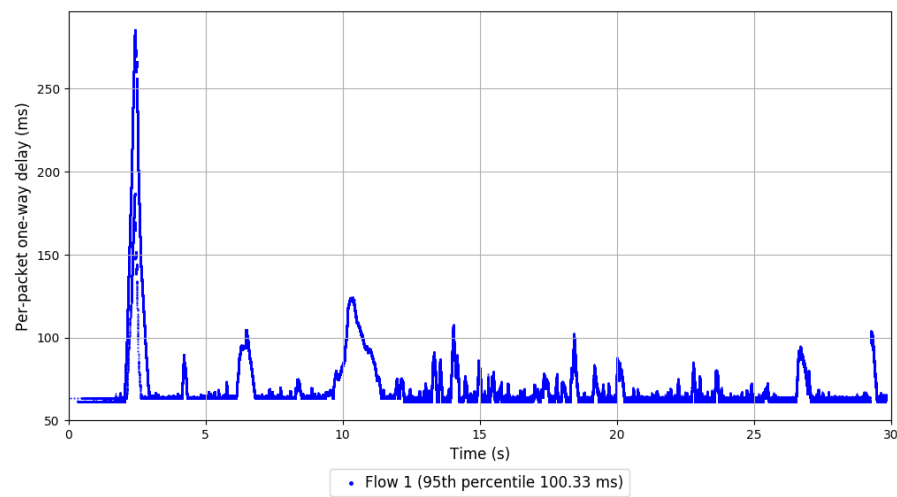
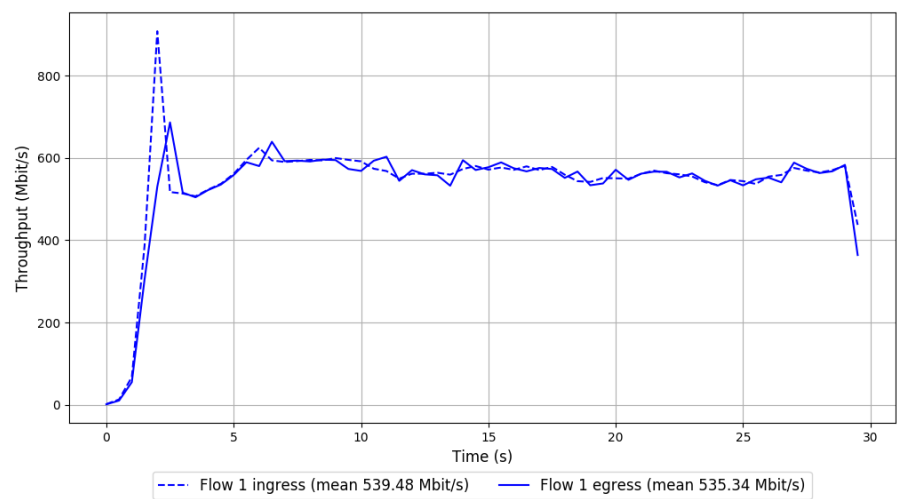
-- Flow 1:

Average throughput: 535.34 Mbit/s

95th percentile per-packet one-way delay: 100.332 ms

Loss rate: 1.19%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 20:45:44

End at: 2018-04-24 20:46:14

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.09 Mbit/s

95th percentile per-packet one-way delay: 123.498 ms

Loss rate: 0.93%

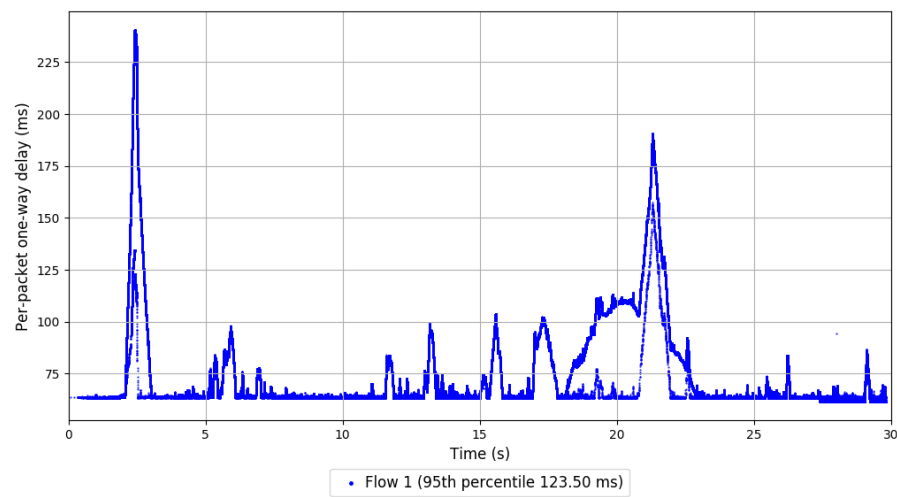
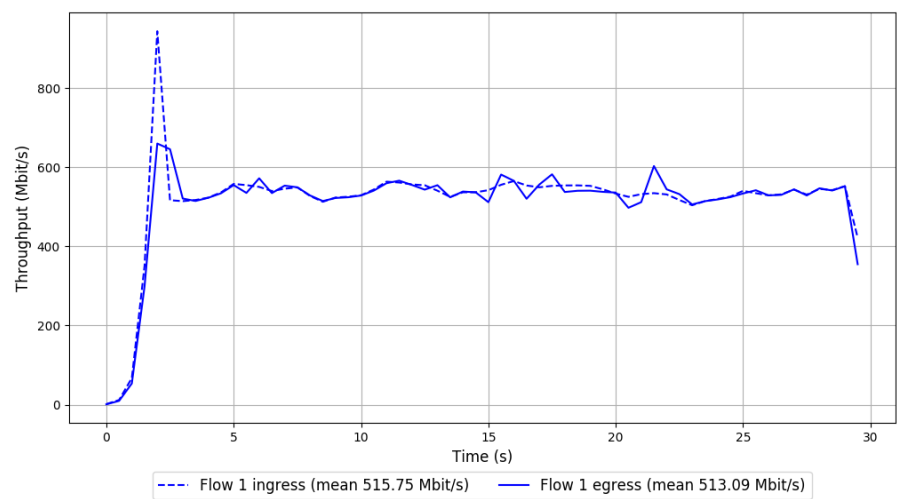
-- Flow 1:

Average throughput: 513.09 Mbit/s

95th percentile per-packet one-way delay: 123.498 ms

Loss rate: 0.93%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-04-24 18:51:56

End at: 2018-04-24 18:52:26

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.23%

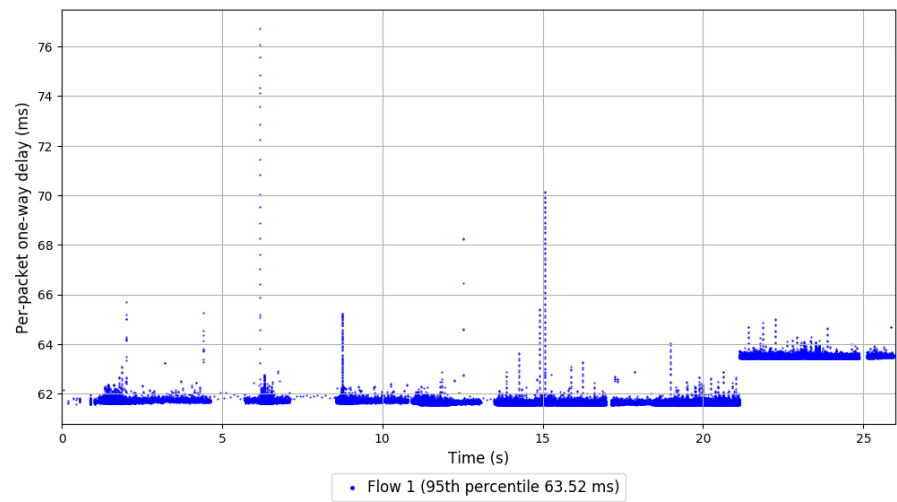
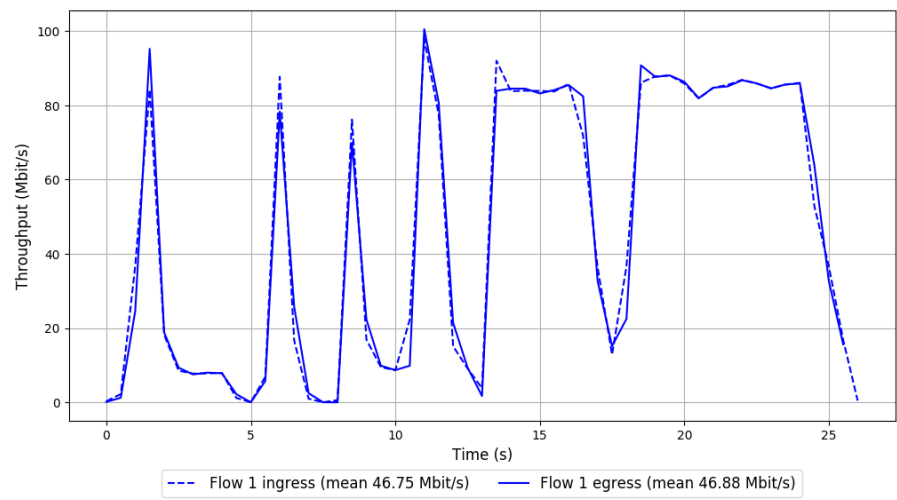
-- Flow 1:

Average throughput: 46.88 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.23%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 19:05:14

End at: 2018-04-24 19:05:44

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.68%

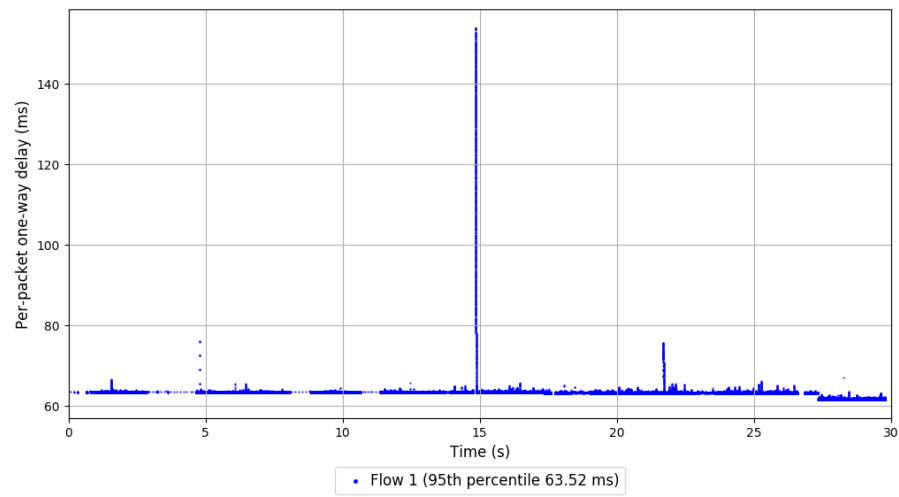
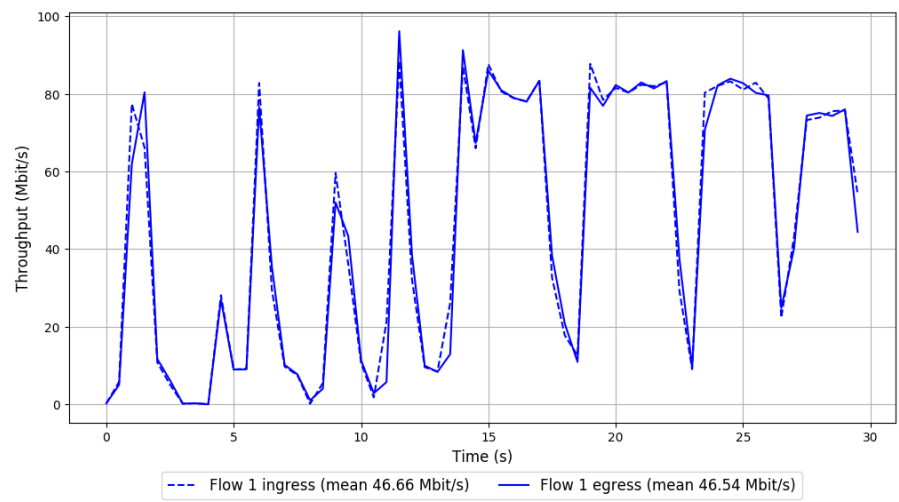
-- Flow 1:

Average throughput: 46.54 Mbit/s

95th percentile per-packet one-way delay: 63.525 ms

Loss rate: 0.68%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 19:18:43

End at: 2018-04-24 19:19:13

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.17 Mbit/s

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

Loss rate: 0.58%

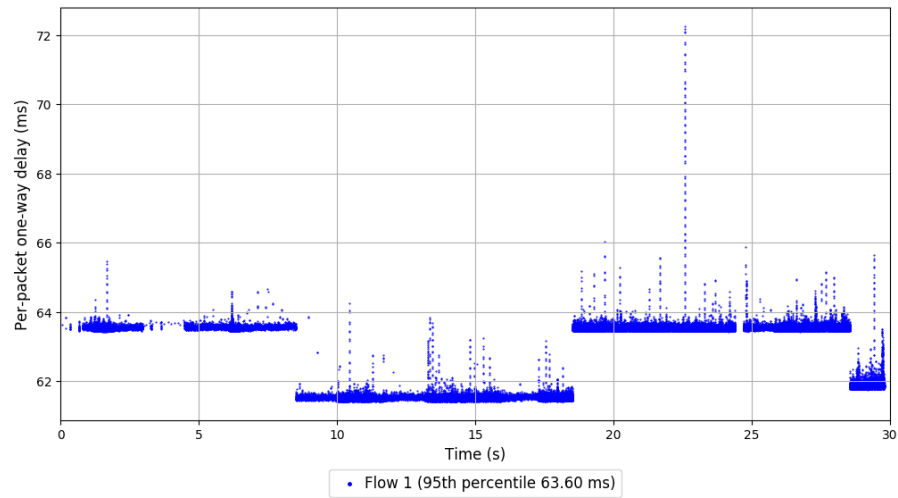
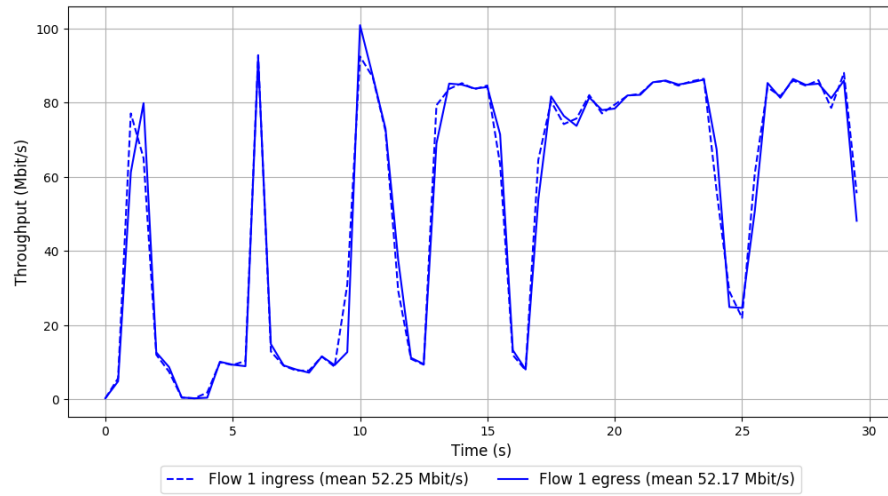
-- Flow 1:

Average throughput: 52.17 Mbit/s

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

Loss rate: 0.58%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 19:32:01

End at: 2018-04-24 19:32:31

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.39 Mbit/s

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

Loss rate: 0.68%

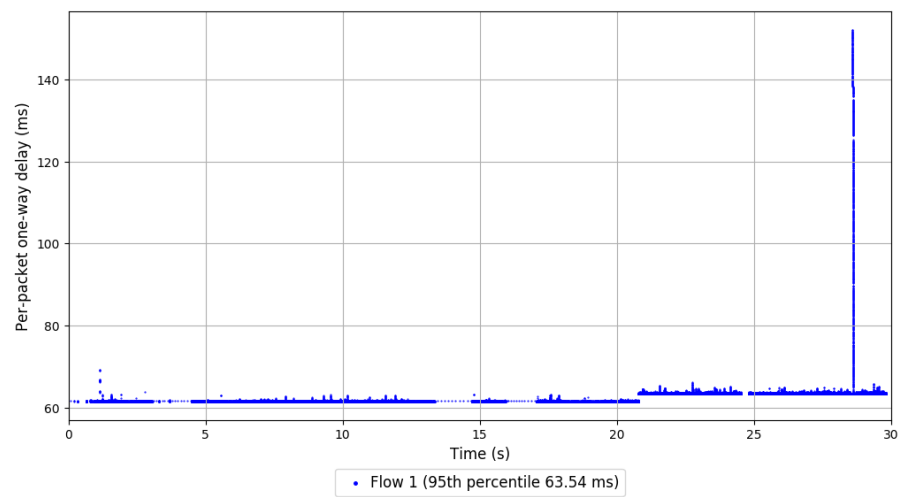
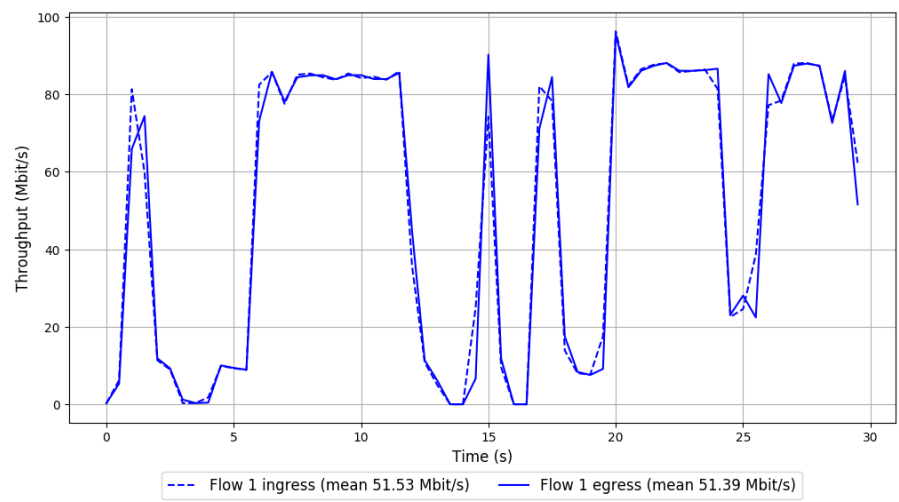
-- Flow 1:

Average throughput: 51.39 Mbit/s

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

Loss rate: 0.68%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 19:45:25

End at: 2018-04-24 19:45:55

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 63.605 ms

Loss rate: 0.64%

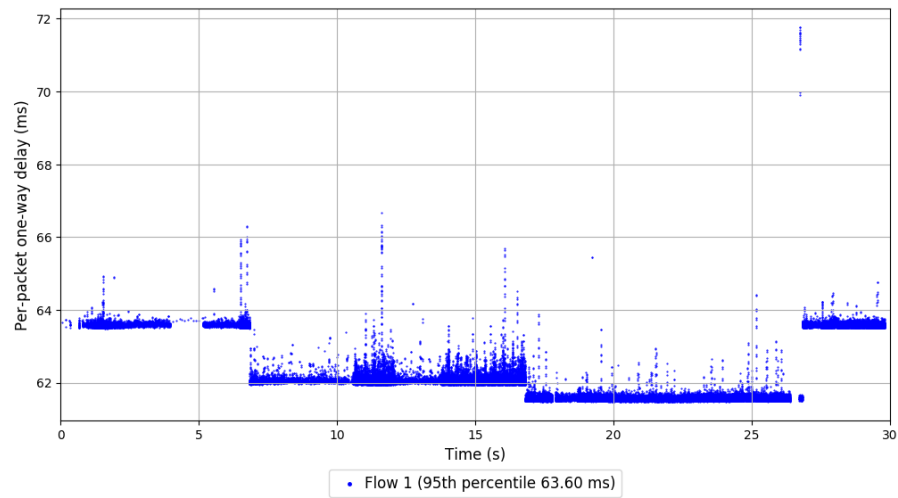
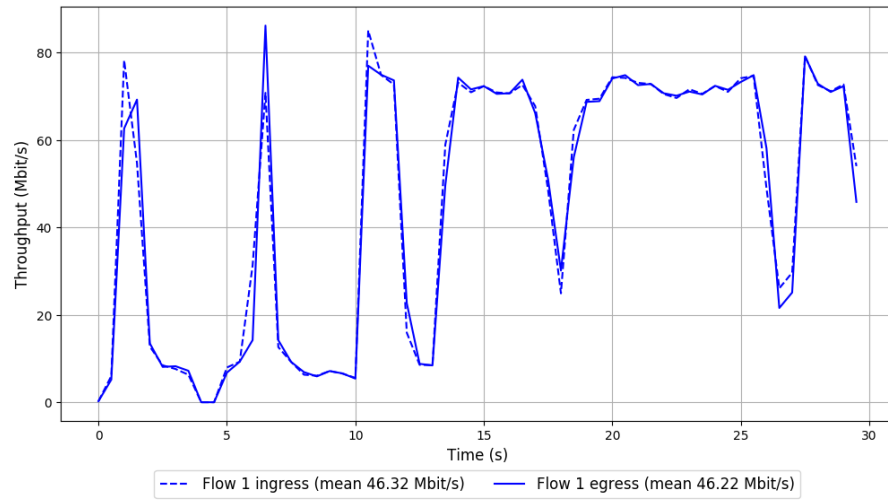
-- Flow 1:

Average throughput: 46.22 Mbit/s

95th percentile per-packet one-way delay: 63.605 ms

Loss rate: 0.64%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 19:58:48

End at: 2018-04-24 19:59:18

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.07 Mbit/s

95th percentile per-packet one-way delay: 63.483 ms

Loss rate: 0.64%

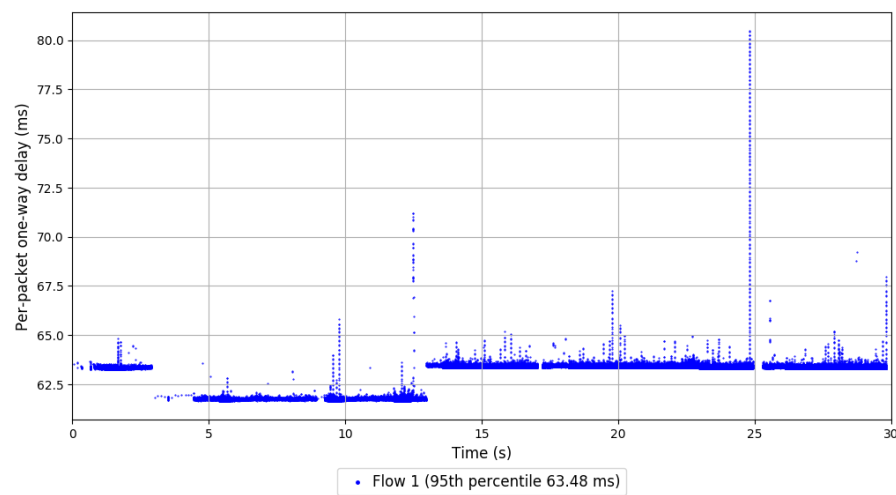
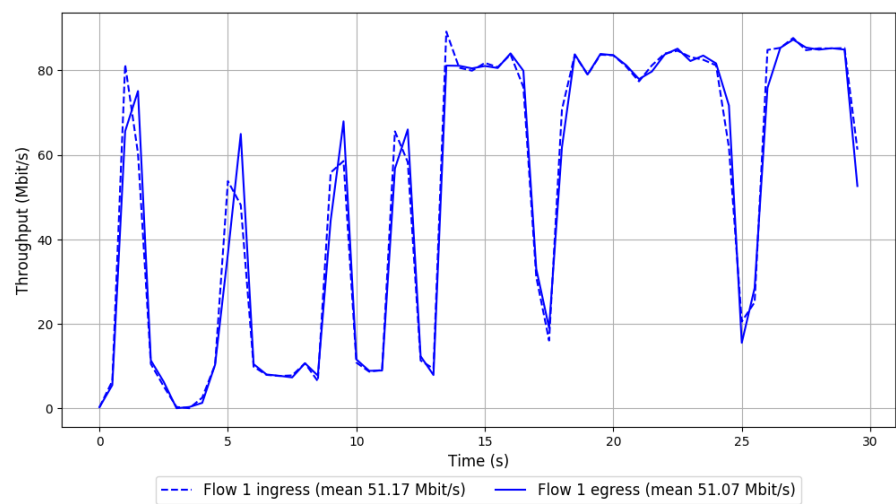
-- Flow 1:

Average throughput: 51.07 Mbit/s

95th percentile per-packet one-way delay: 63.483 ms

Loss rate: 0.64%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 20:12:08

End at: 2018-04-24 20:12:38

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.84 Mbit/s

95th percentile per-packet one-way delay: 63.830 ms

Loss rate: 0.55%

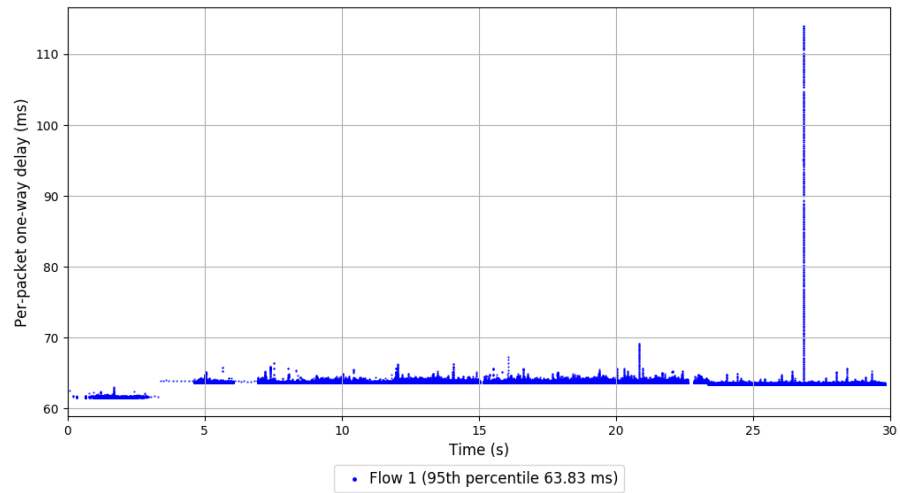
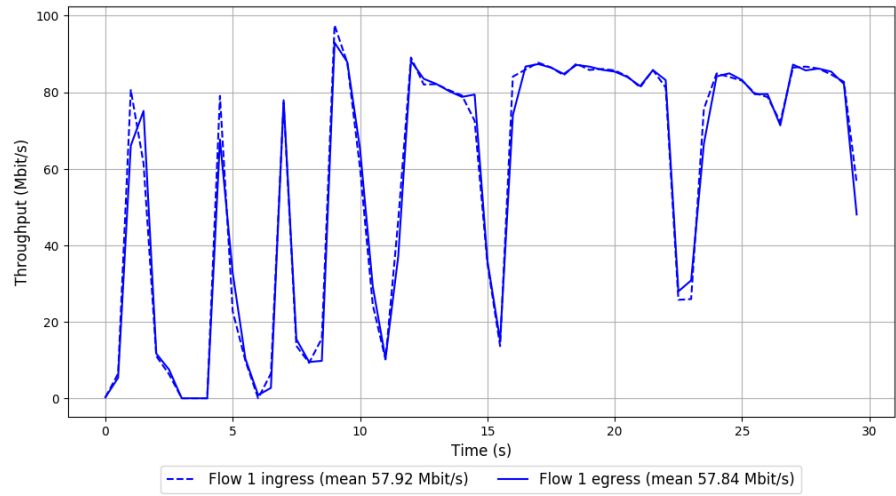
-- Flow 1:

Average throughput: 57.84 Mbit/s

95th percentile per-packet one-way delay: 63.830 ms

Loss rate: 0.55%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 20:25:37

End at: 2018-04-24 20:26:07

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.79 Mbit/s

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

Loss rate: 0.72%

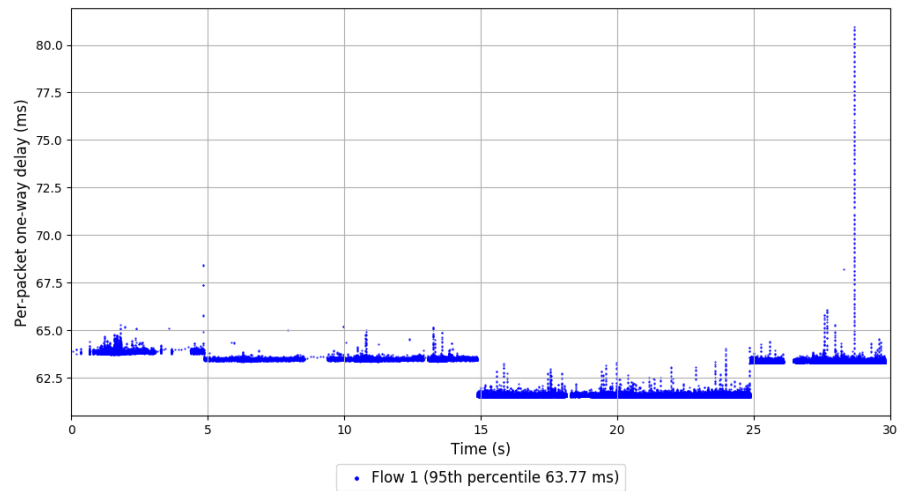
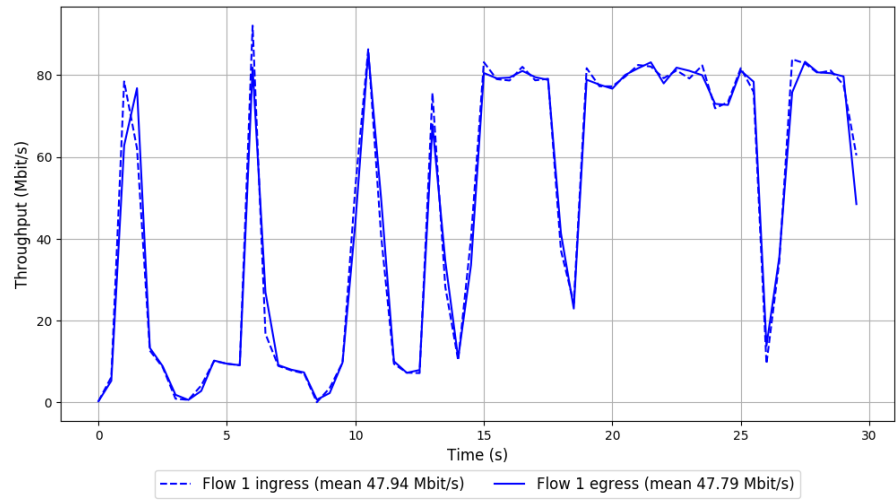
-- Flow 1:

Average throughput: 47.79 Mbit/s

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

Loss rate: 0.72%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 20:39:29

End at: 2018-04-24 20:39:59

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.81 Mbit/s

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

Loss rate: 0.65%

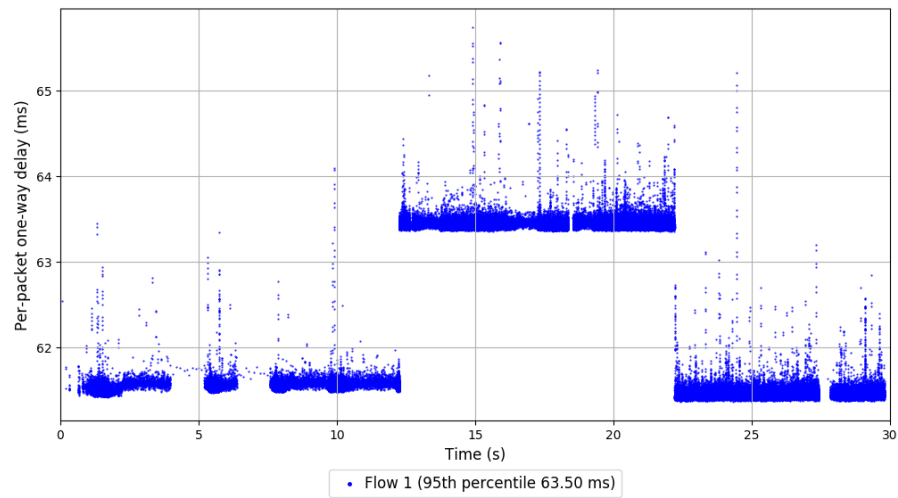
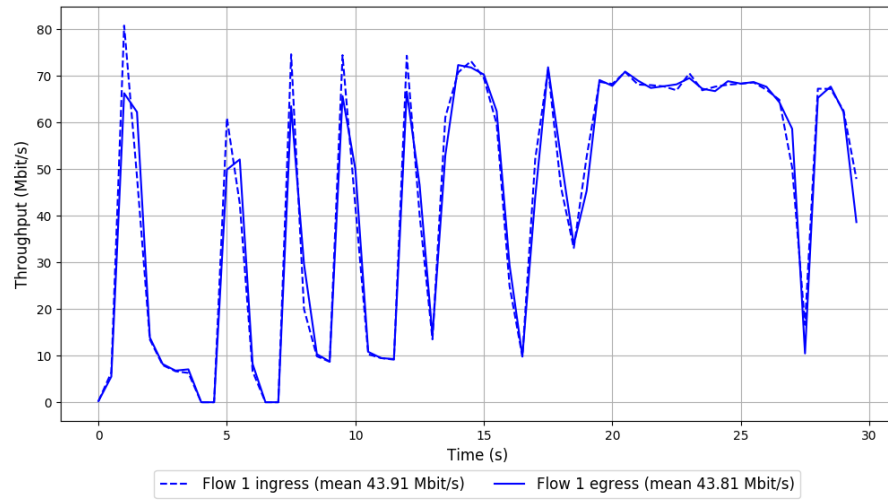
-- Flow 1:

Average throughput: 43.81 Mbit/s

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

Loss rate: 0.65%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 20:52:43

End at: 2018-04-24 20:53:13

Below is generated by plot.py at 2018-04-24 23:39:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.18 Mbit/s

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

Loss rate: 0.71%

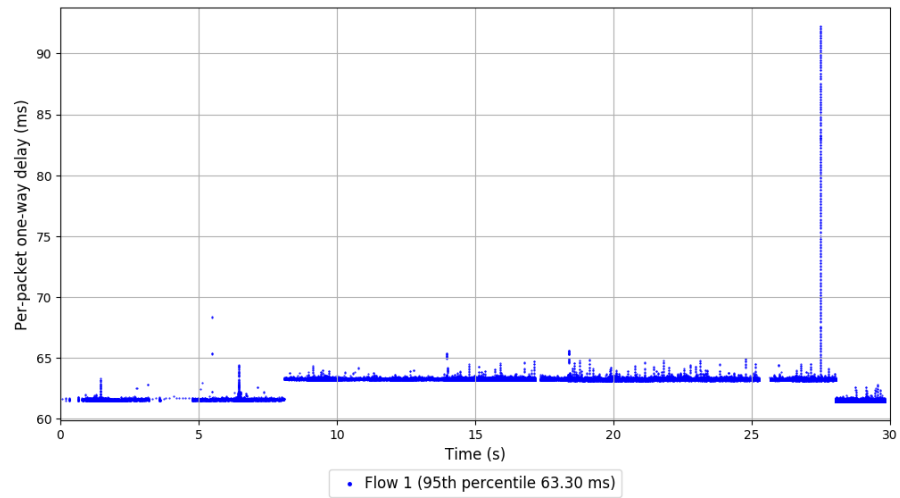
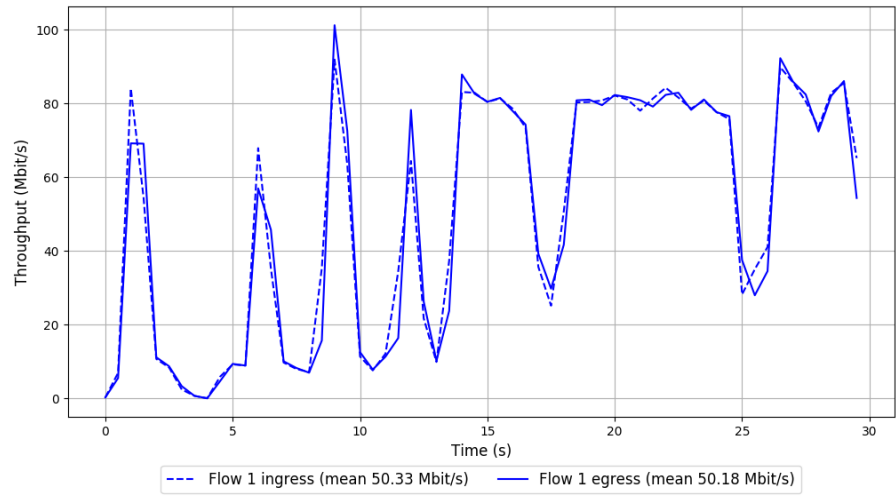
-- Flow 1:

Average throughput: 50.18 Mbit/s

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

Loss rate: 0.71%

Run 10: Report of QUIC Cubic — Data Link

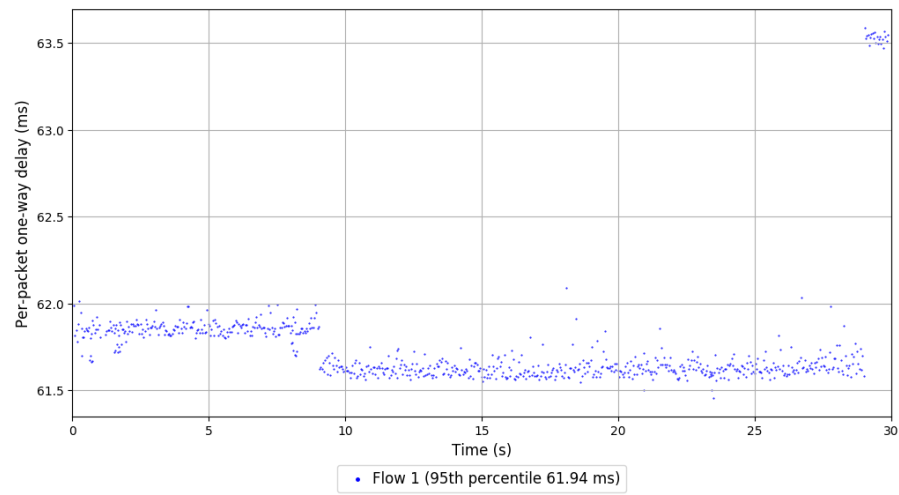
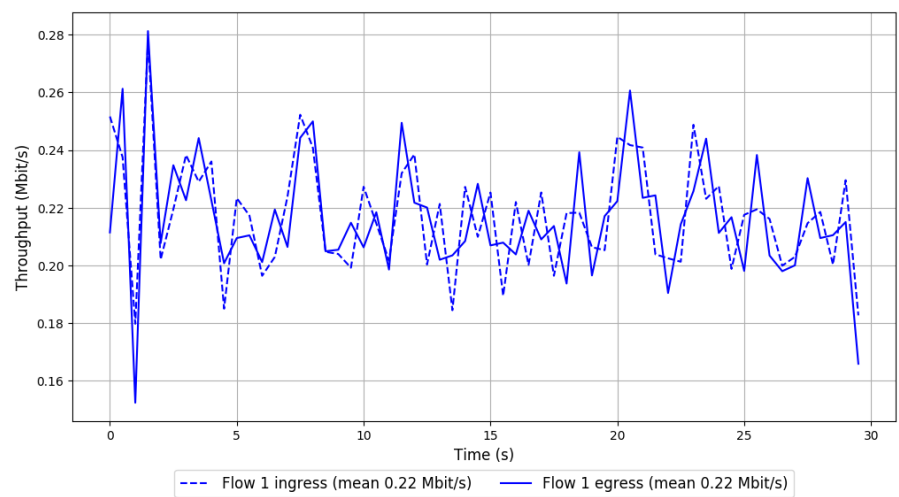


```
Run 1: Statistics of SCReAM

Start at: 2018-04-24 18:49:52
End at: 2018-04-24 18:50:22

# Below is generated by plot.py at 2018-04-24 23:39:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.940 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.940 ms
Loss rate: 0.38%
```

Run 1: Report of SCRaM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-24 19:03:10

End at: 2018-04-24 19:03:40

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.782 ms

Loss rate: 0.38%

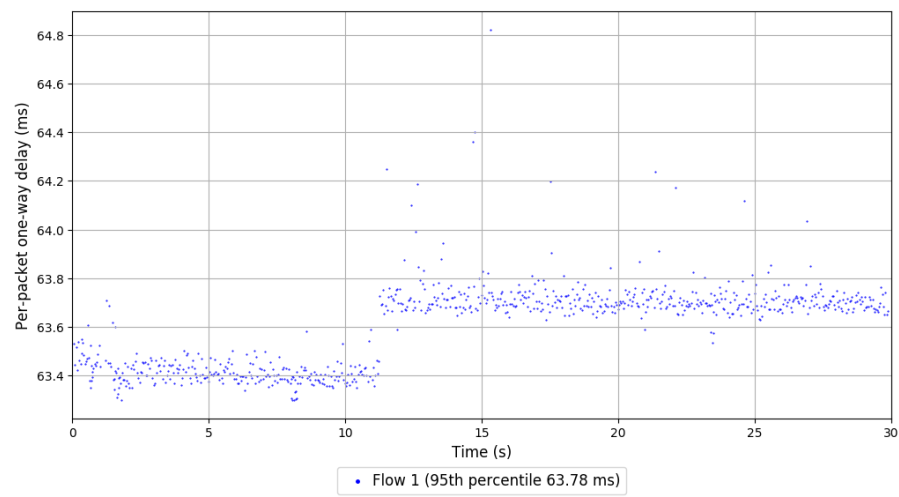
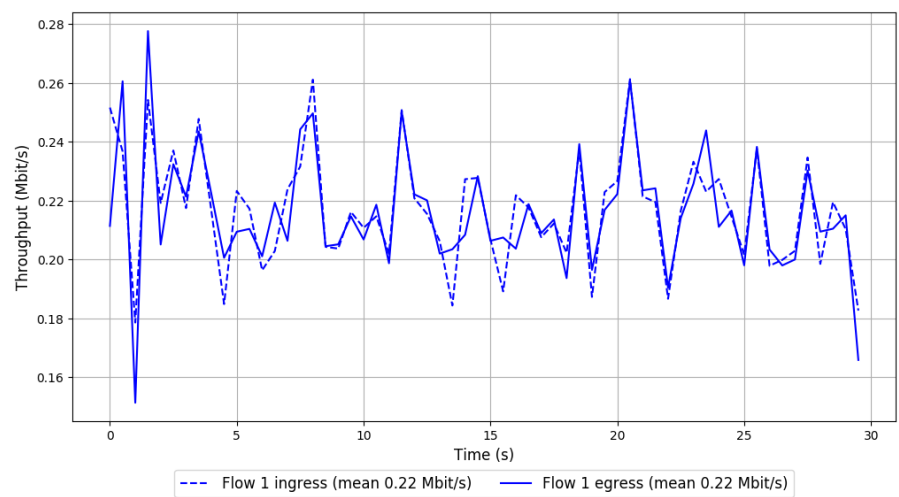
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.782 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-24 19:16:39

End at: 2018-04-24 19:17:09

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.51%

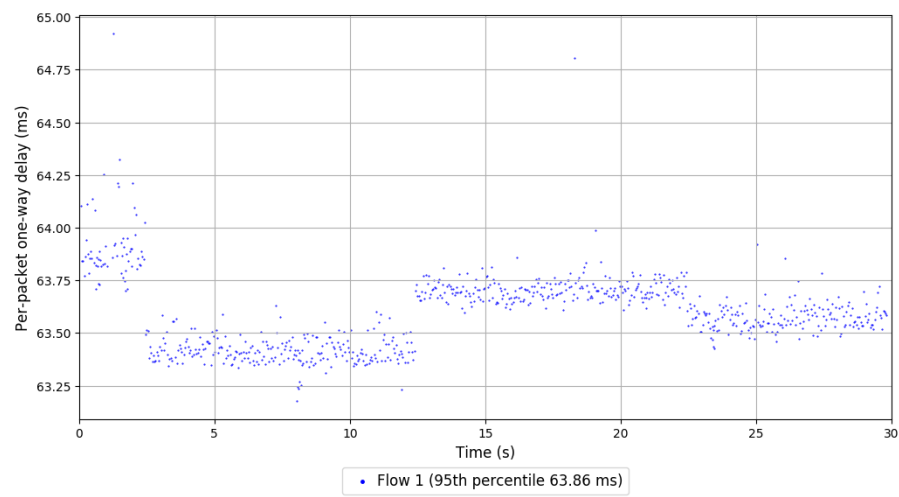
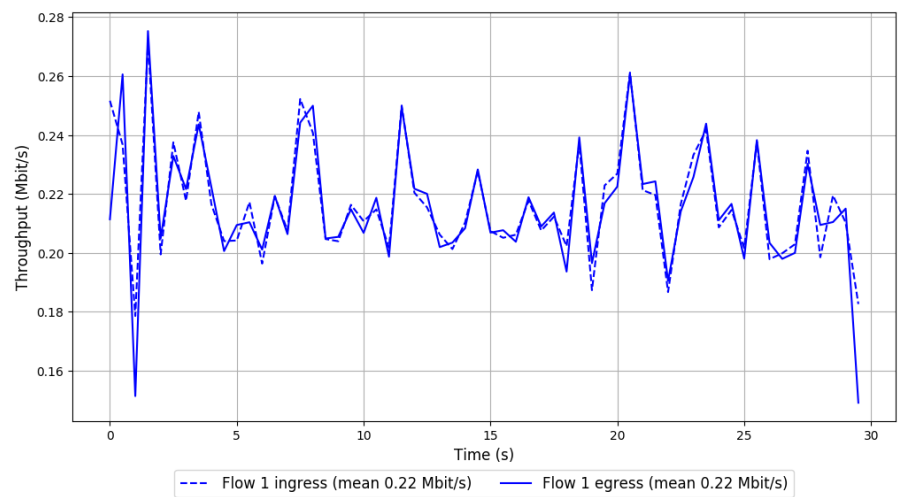
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-24 19:29:57

End at: 2018-04-24 19:30:27

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.060 ms

Loss rate: 0.38%

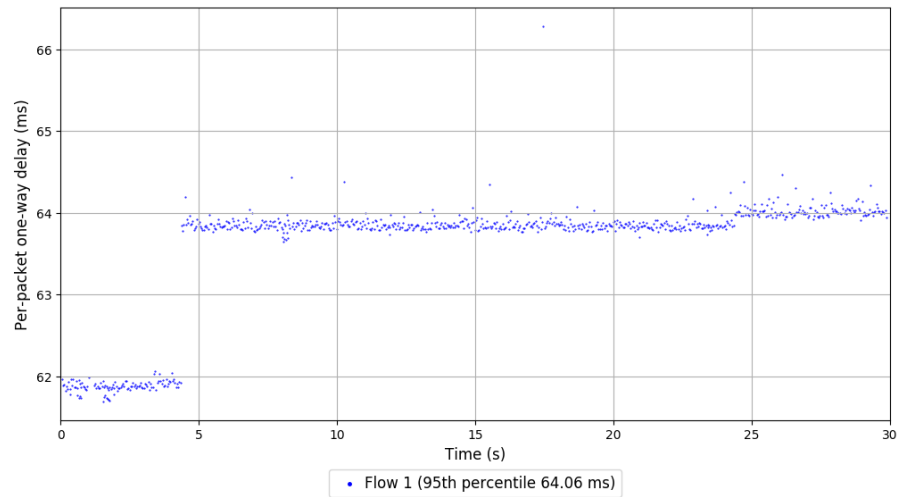
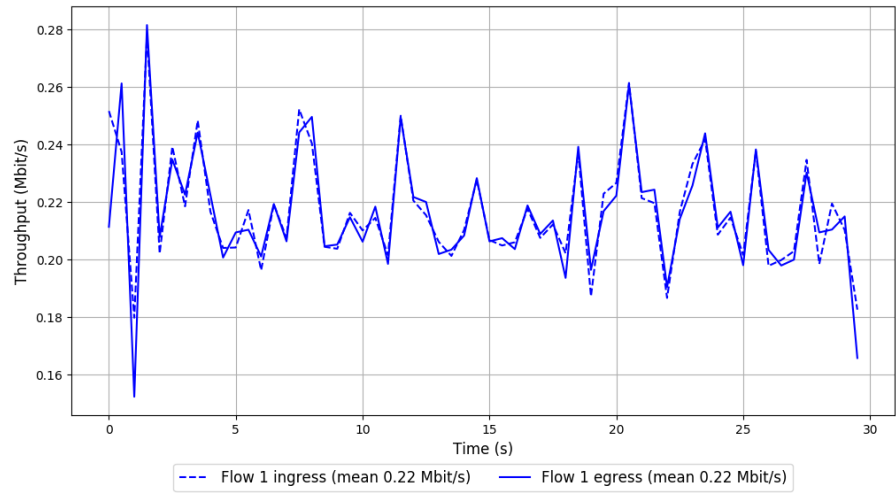
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.060 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-24 19:43:22

End at: 2018-04-24 19:43:52

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

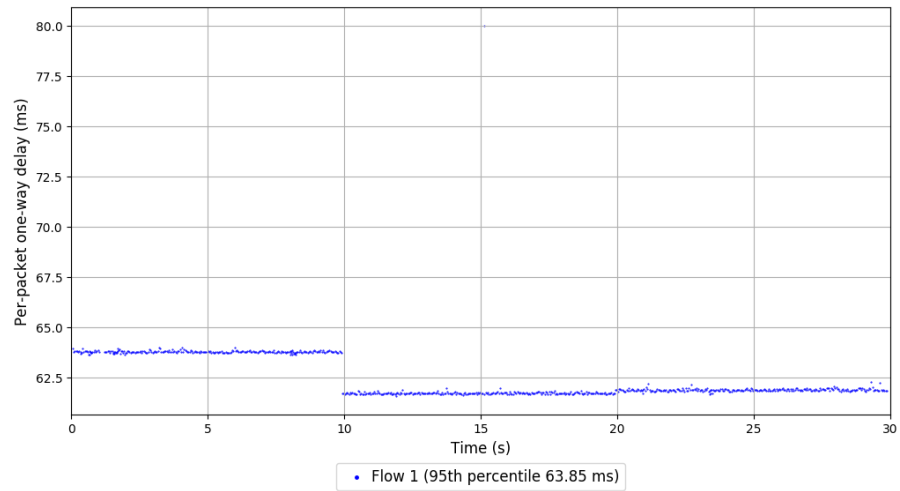
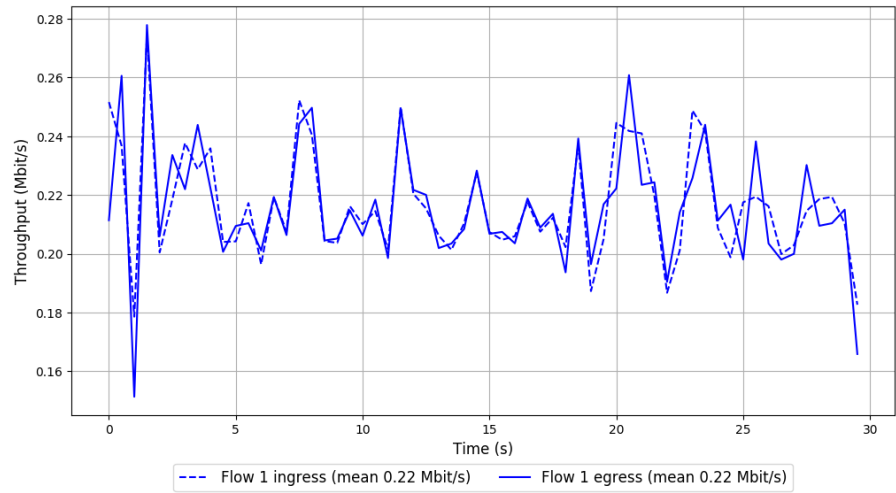
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-24 19:56:45

End at: 2018-04-24 19:57:15

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.665 ms

Loss rate: 0.38%

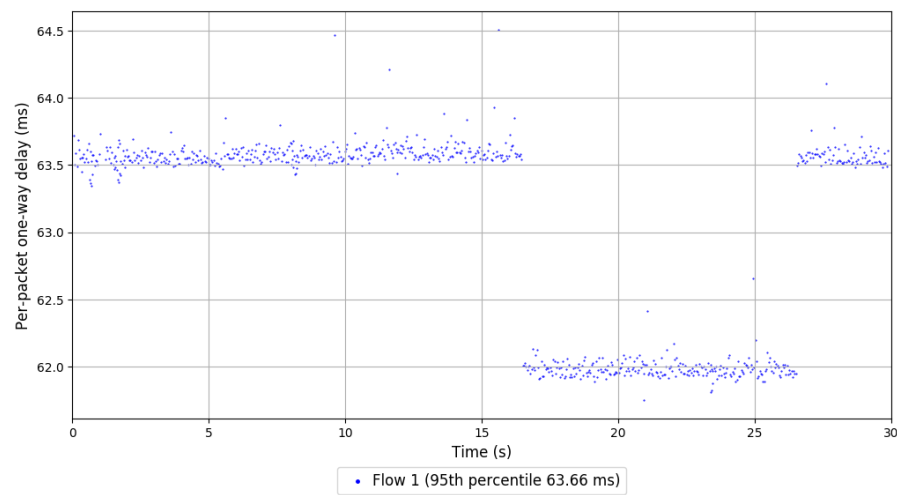
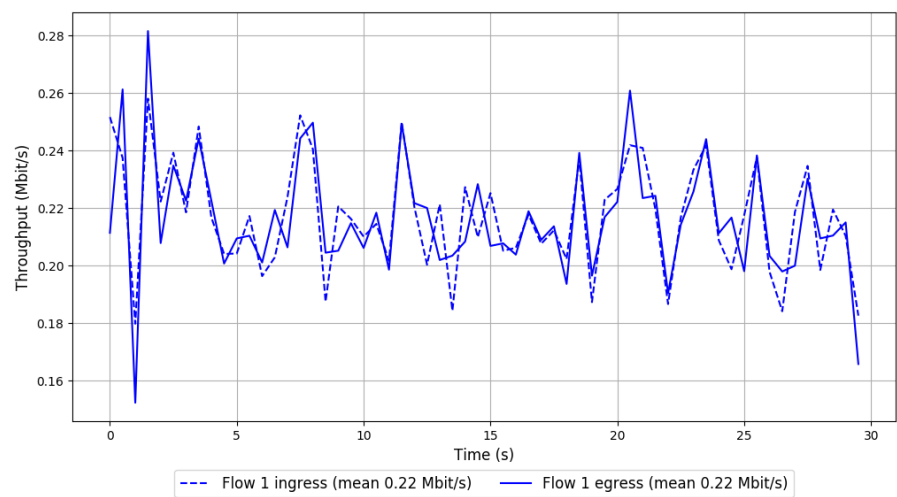
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.665 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-24 20:10:04

End at: 2018-04-24 20:10:34

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

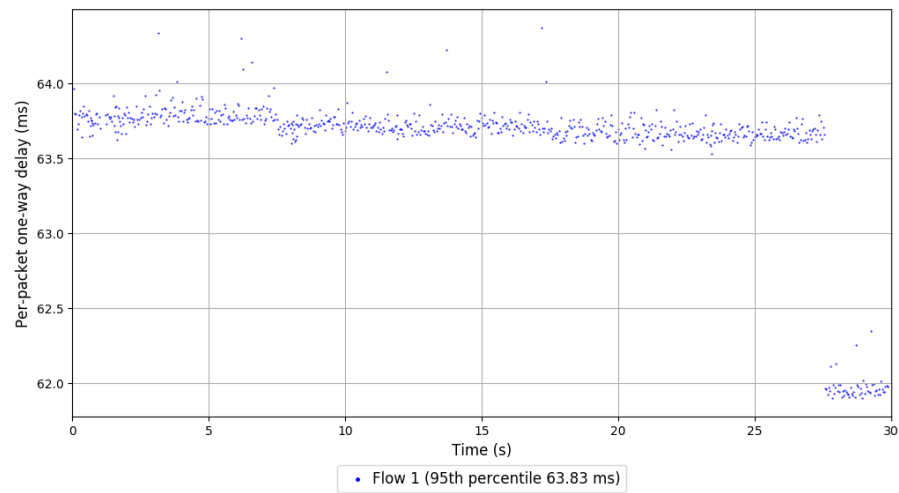
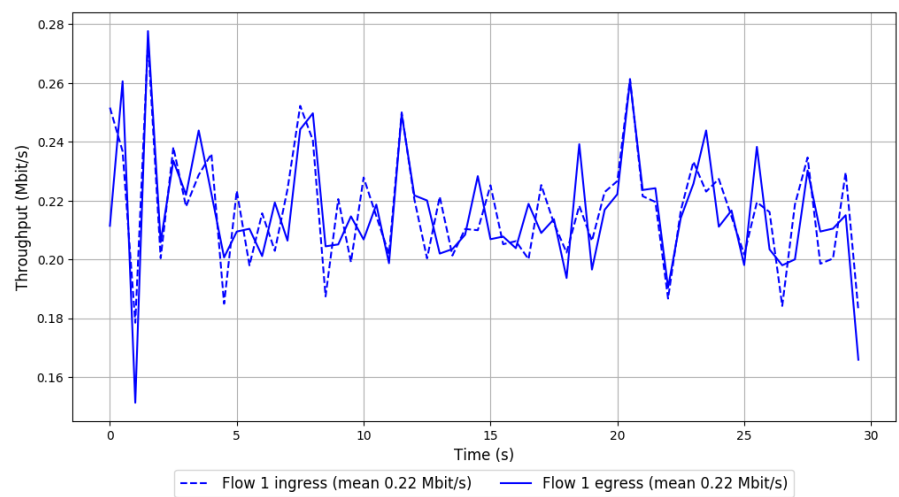
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-24 20:23:32

End at: 2018-04-24 20:24:03

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.644 ms

Loss rate: 0.38%

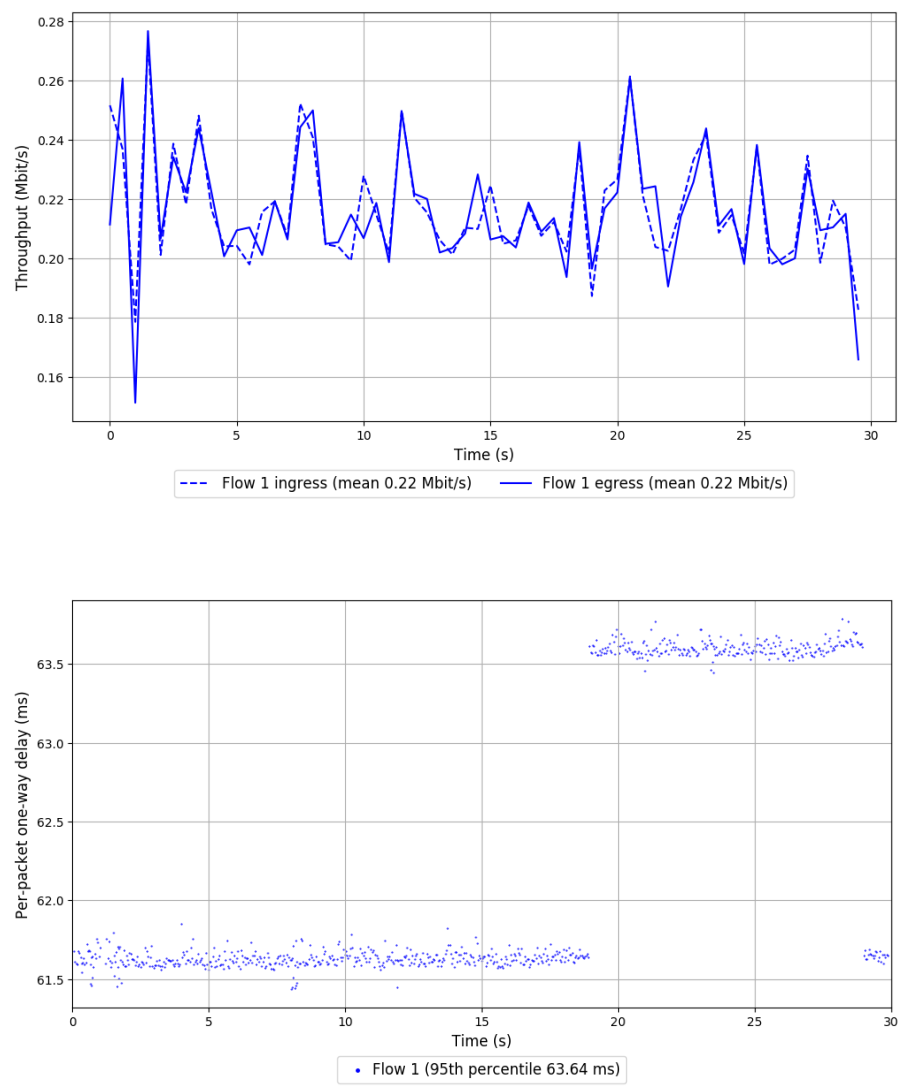
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.644 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-24 20:37:25

End at: 2018-04-24 20:37:55

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.719 ms

Loss rate: 0.38%

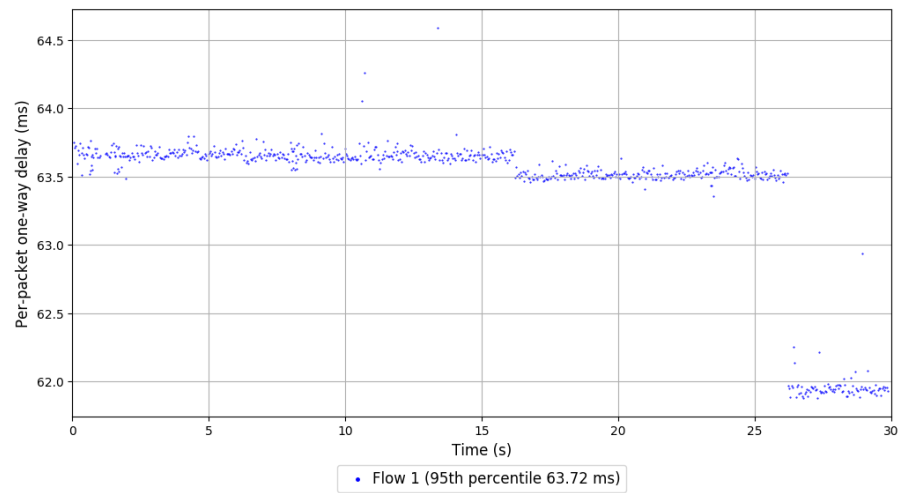
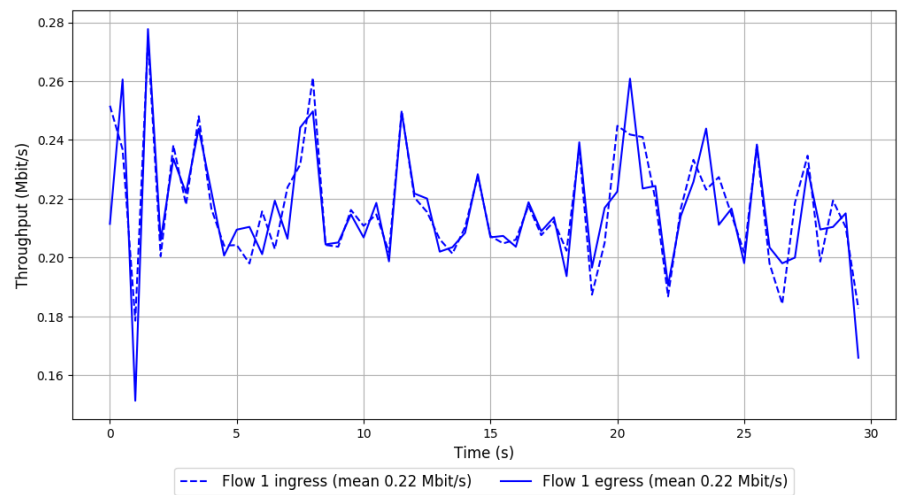
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.719 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-24 20:50:40

End at: 2018-04-24 20:51:10

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.872 ms

Loss rate: 0.38%

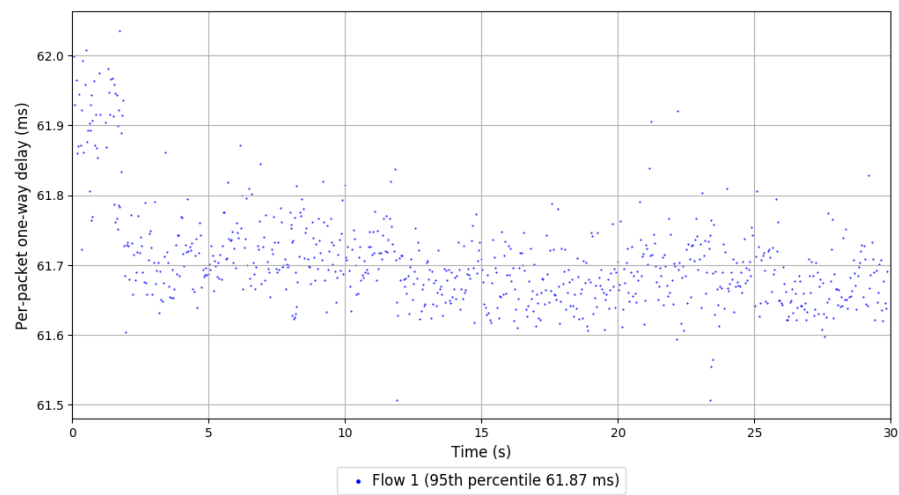
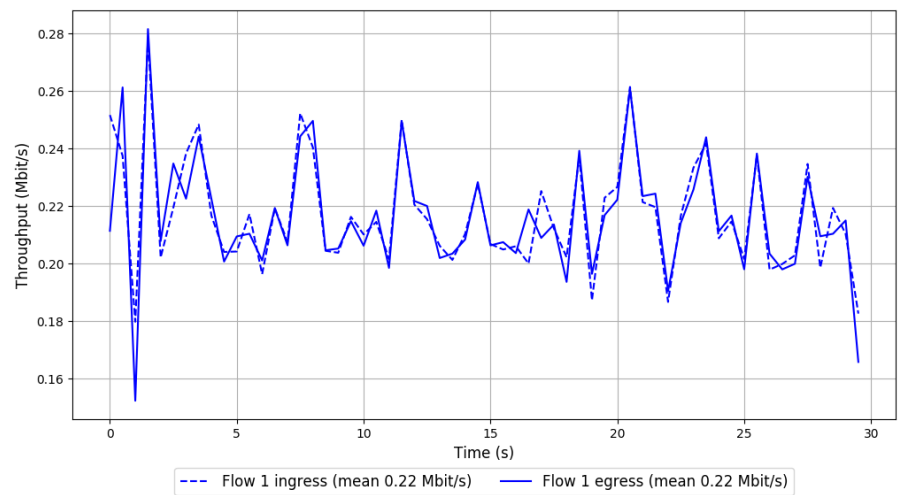
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.872 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

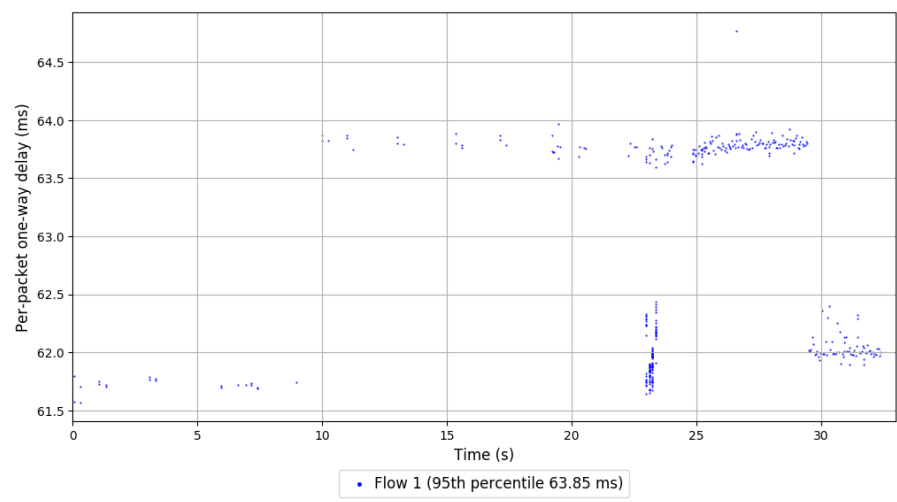
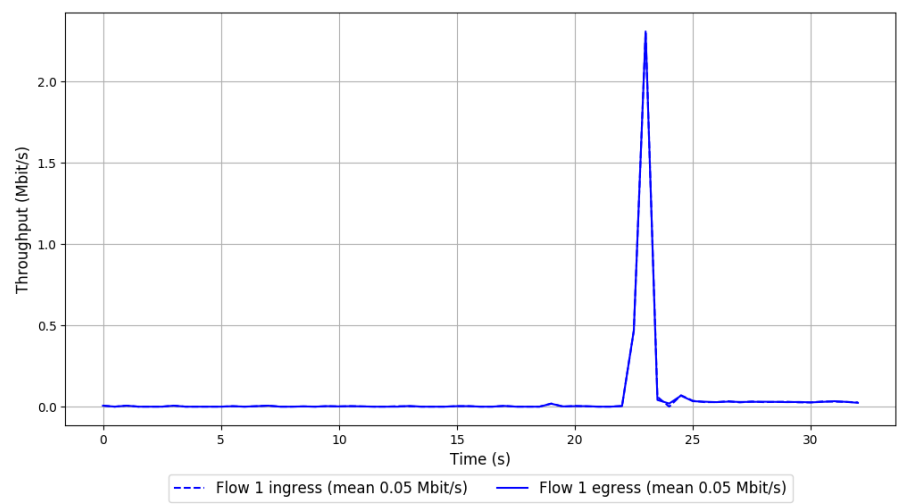


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-24 18:40:54
End at: 2018-04-24 18:41:24

# Below is generated by plot.py at 2018-04-24 23:39:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 63.851 ms
Loss rate: 0.15%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-24 18:54:10

End at: 2018-04-24 18:54:40

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.786 ms

Loss rate: 0.00%

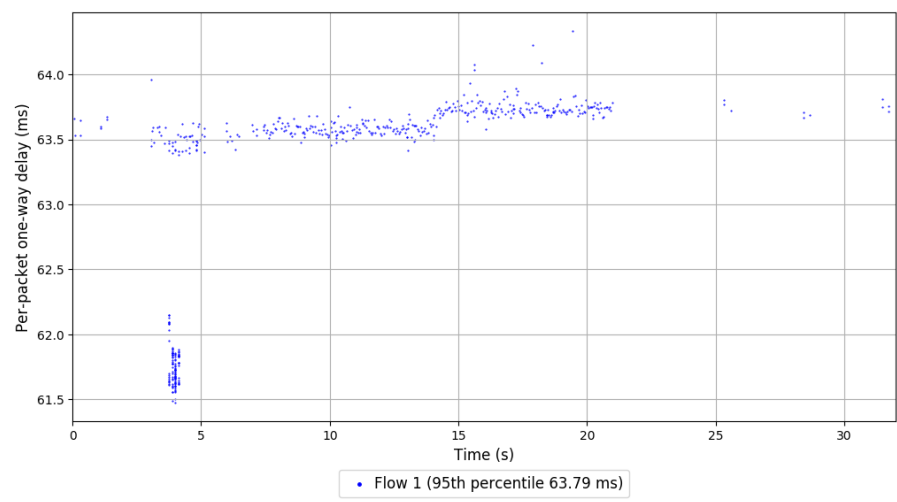
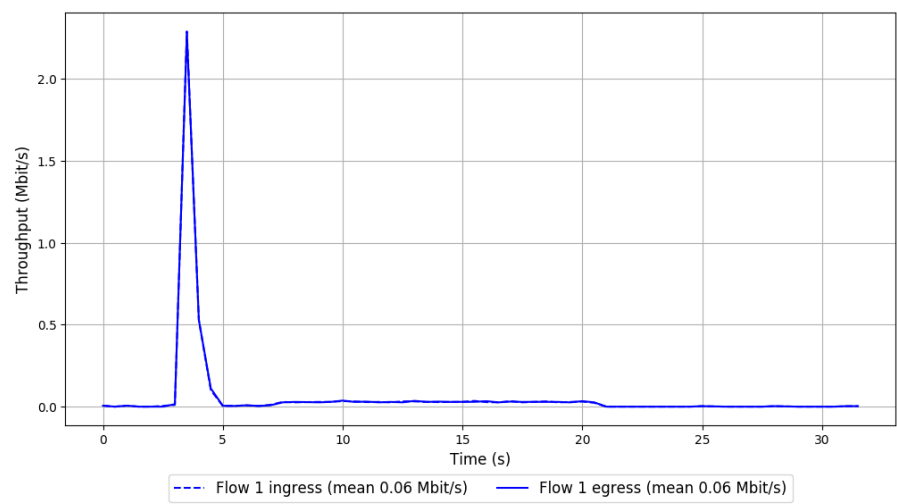
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.786 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-24 19:07:35

End at: 2018-04-24 19:08:05

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.788 ms

Loss rate: 0.00%

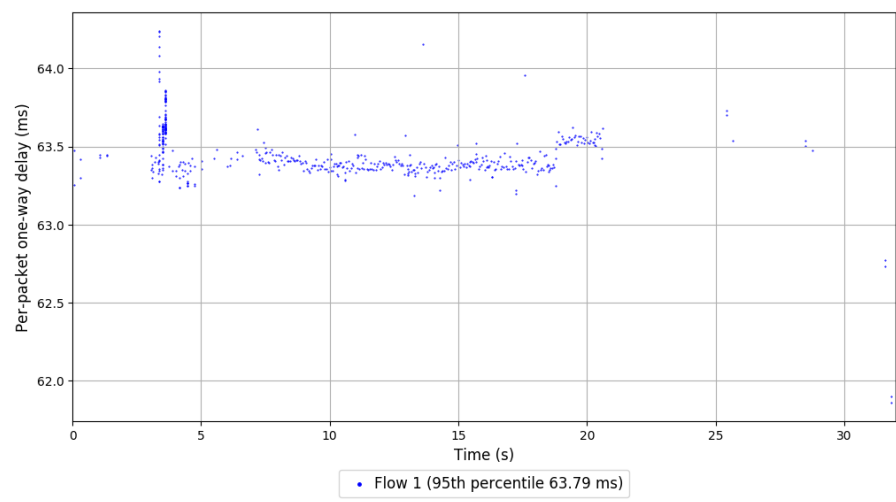
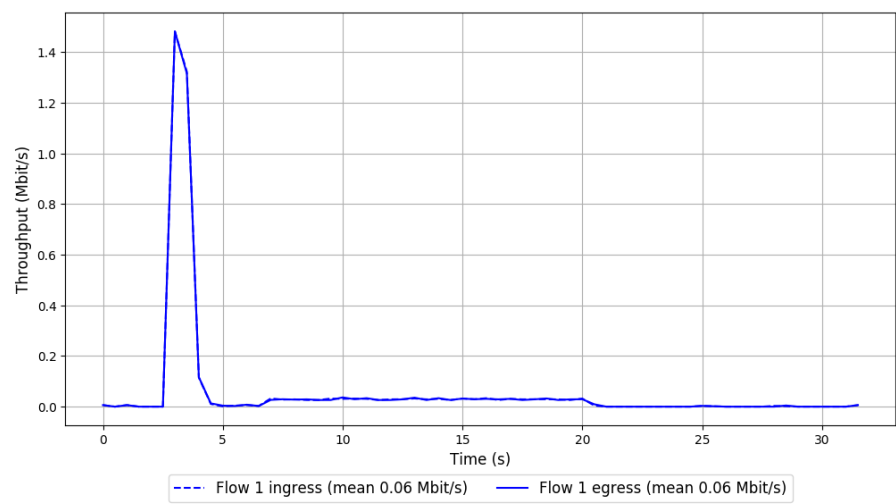
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.788 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-24 19:20:51

End at: 2018-04-24 19:21:21

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 64.332 ms

Loss rate: 0.00%

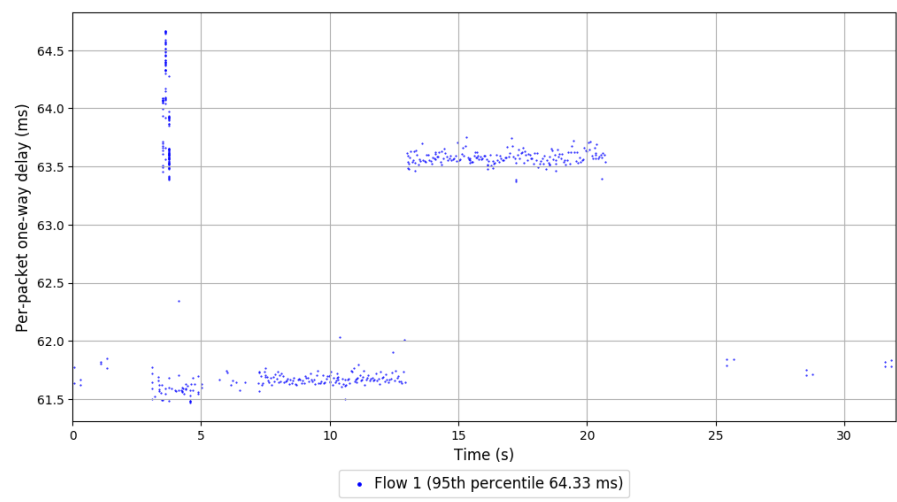
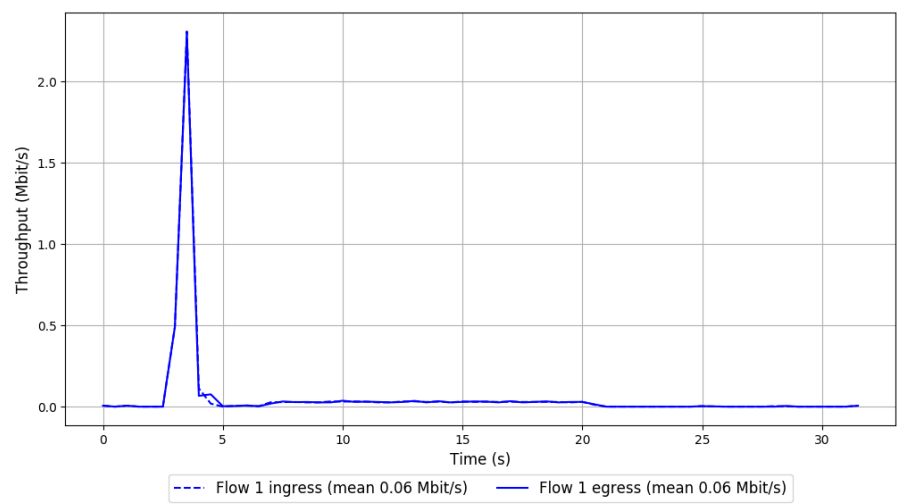
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 64.332 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-24 19:34:25

End at: 2018-04-24 19:34:55

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 64.188 ms

Loss rate: 0.00%

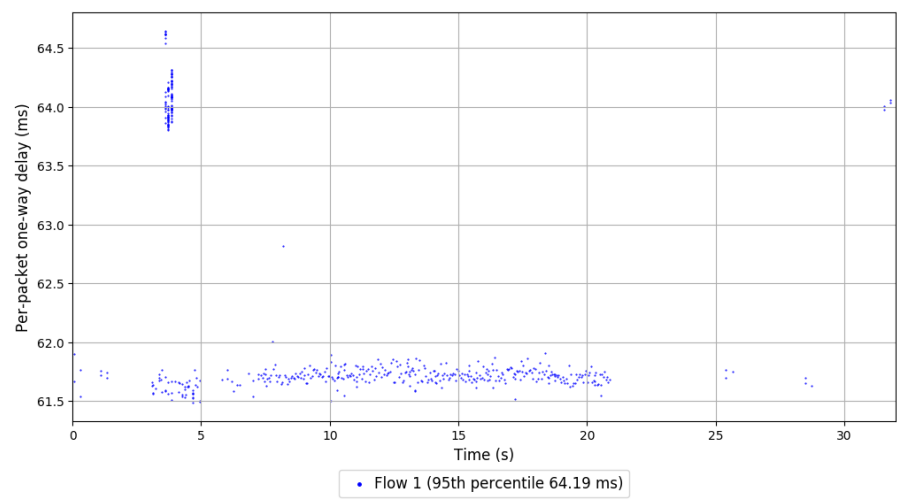
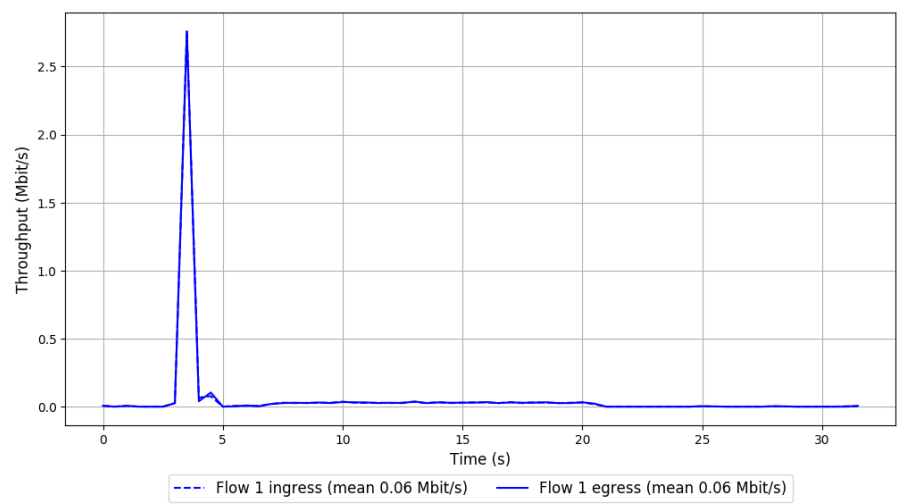
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 64.188 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-24 19:47:45

End at: 2018-04-24 19:48:15

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.986 ms

Loss rate: 0.00%

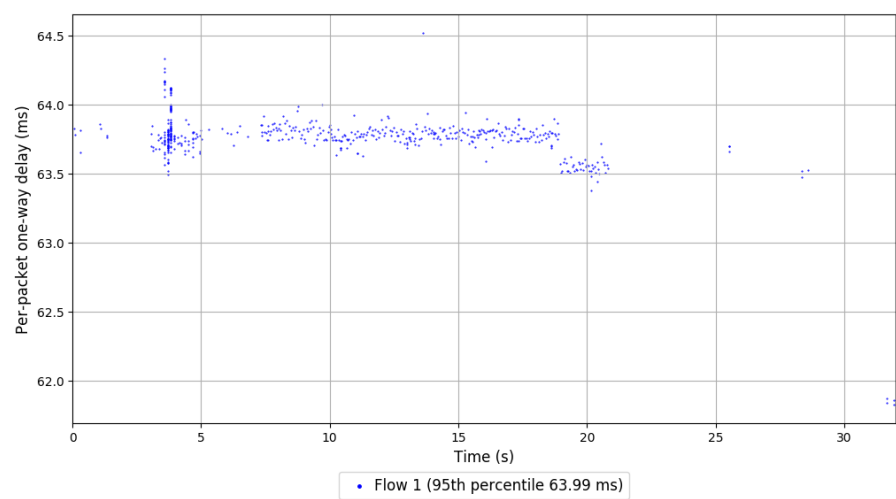
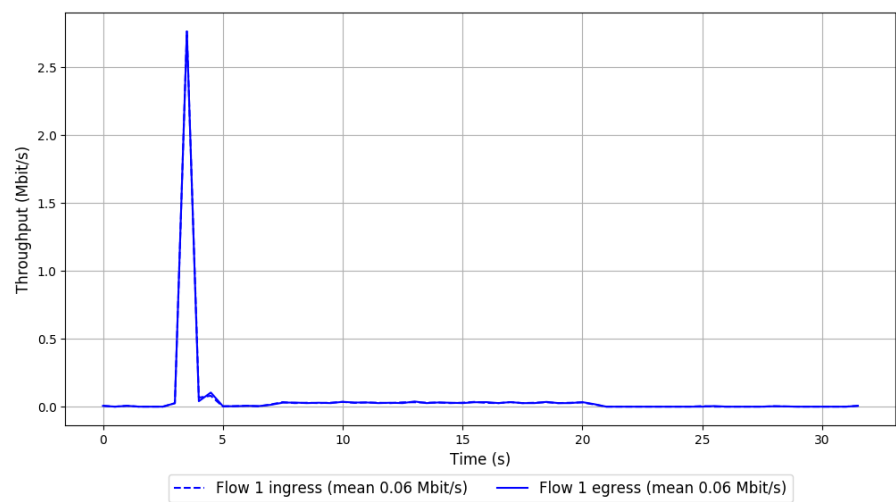
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.986 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-24 20:01:06

End at: 2018-04-24 20:01:36

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.00%

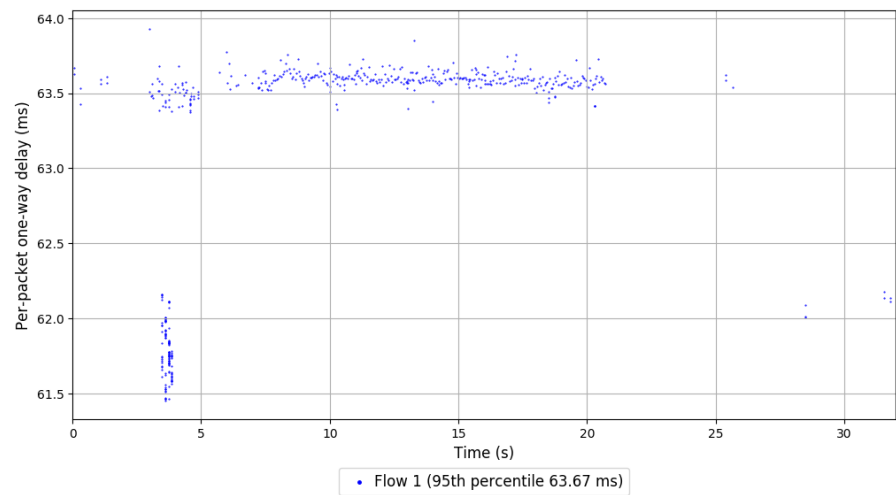
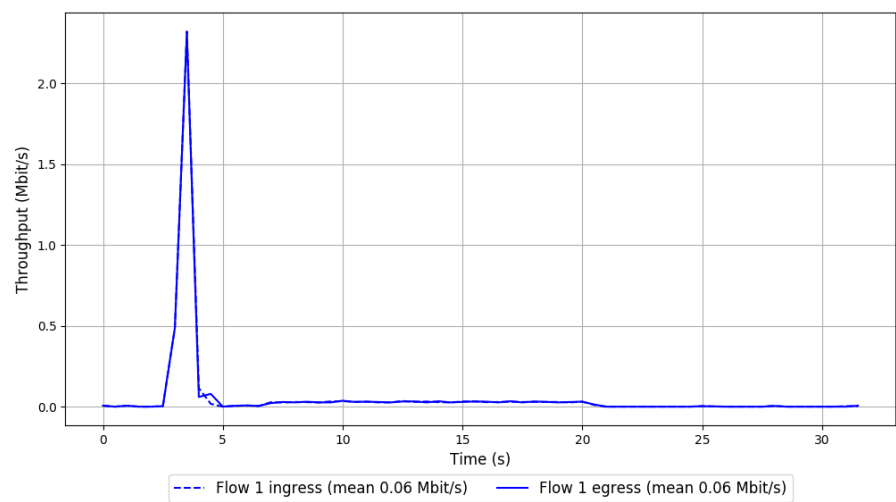
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-24 20:14:28

End at: 2018-04-24 20:14:58

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.791 ms

Loss rate: 0.00%

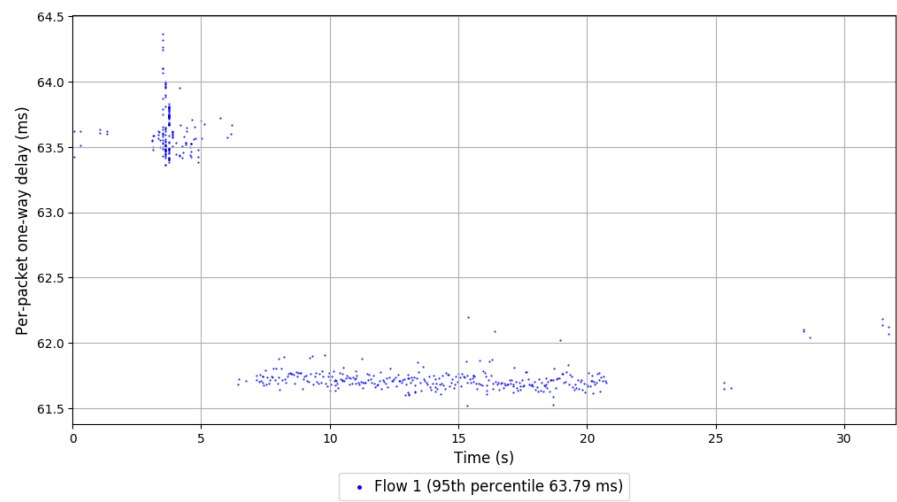
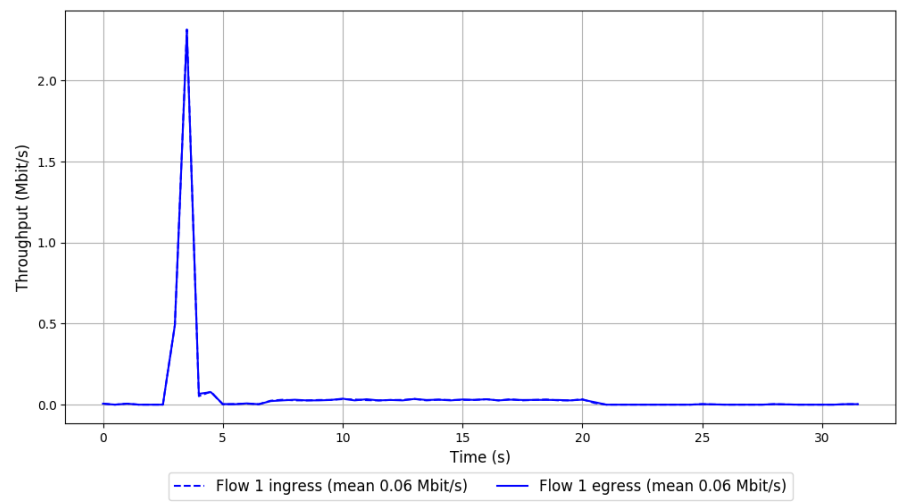
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.791 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-24 20:28:02

End at: 2018-04-24 20:28:32

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 64.045 ms

Loss rate: 0.00%

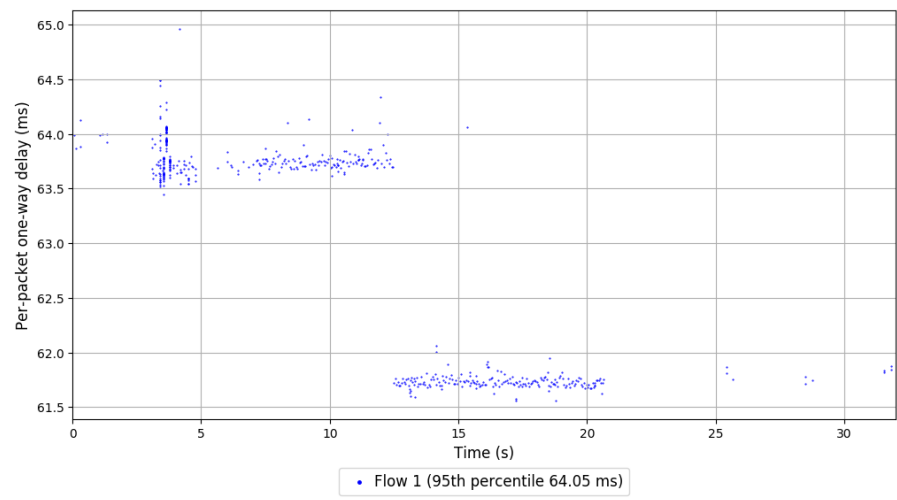
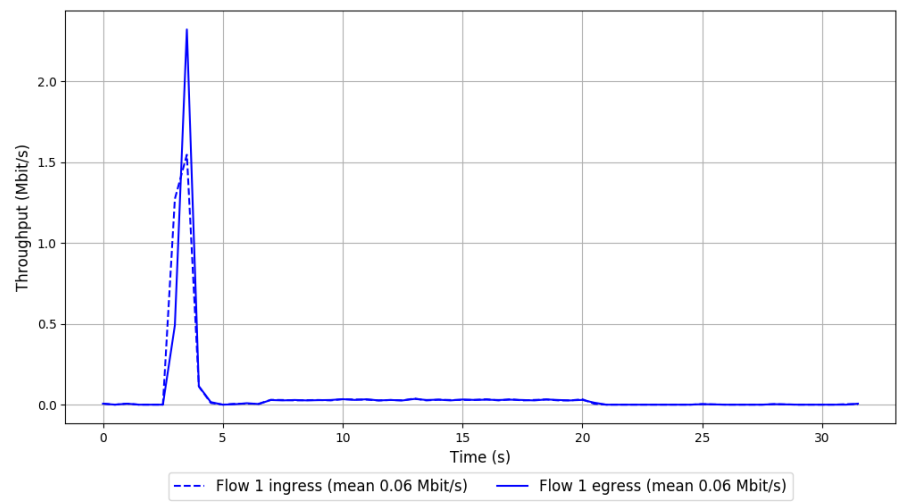
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 64.045 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-24 20:41:46

End at: 2018-04-24 20:42:16

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.500 ms

Loss rate: 0.00%

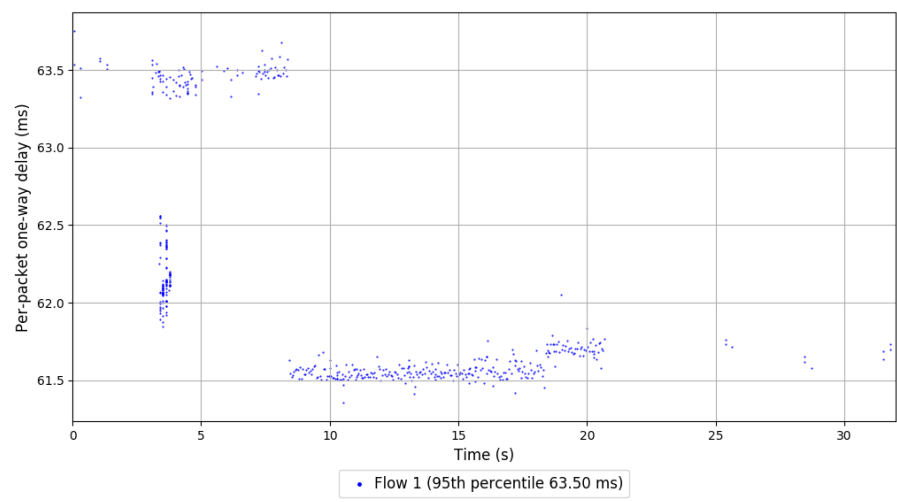
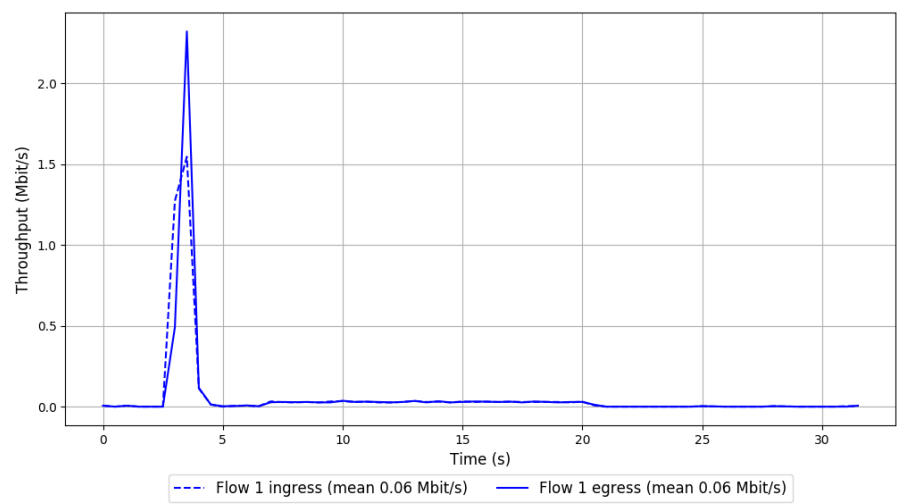
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 63.500 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-24 18:44:15

End at: 2018-04-24 18:44:45

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 64.143 ms

Loss rate: 0.07%

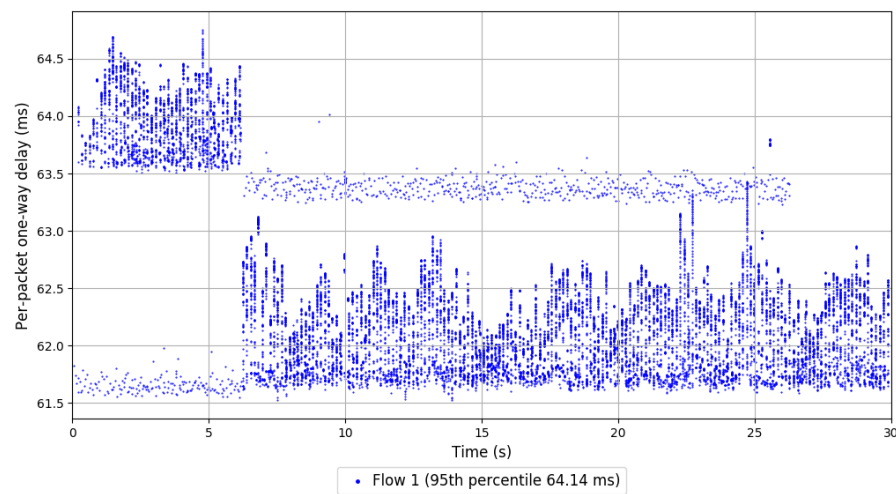
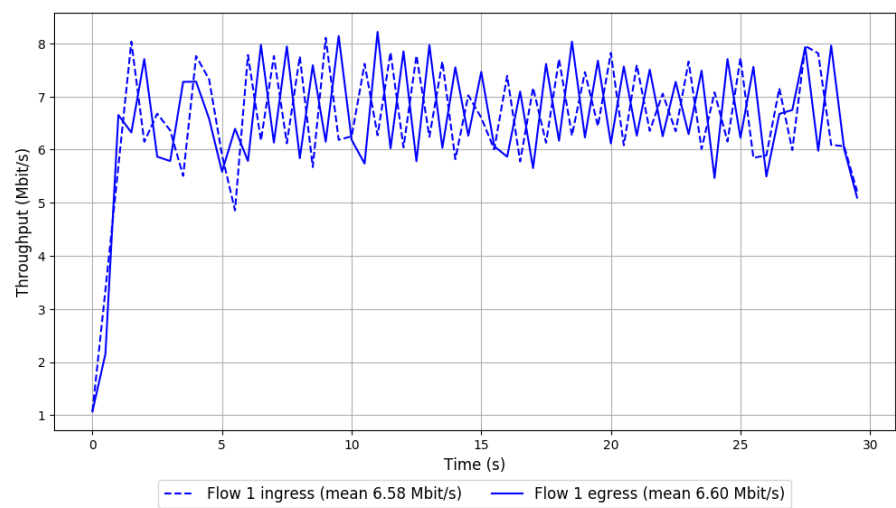
-- Flow 1:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 64.143 ms

Loss rate: 0.07%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-24 18:57:32

End at: 2018-04-24 18:58:02

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.513 ms

Loss rate: 0.51%

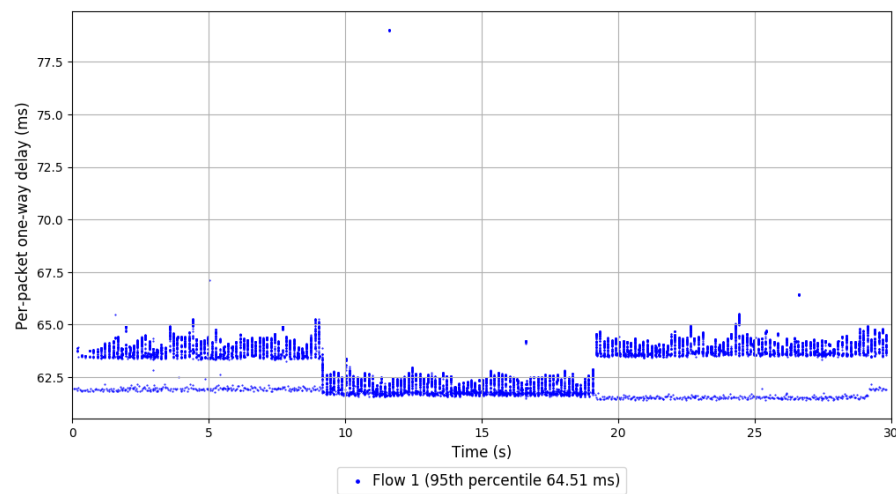
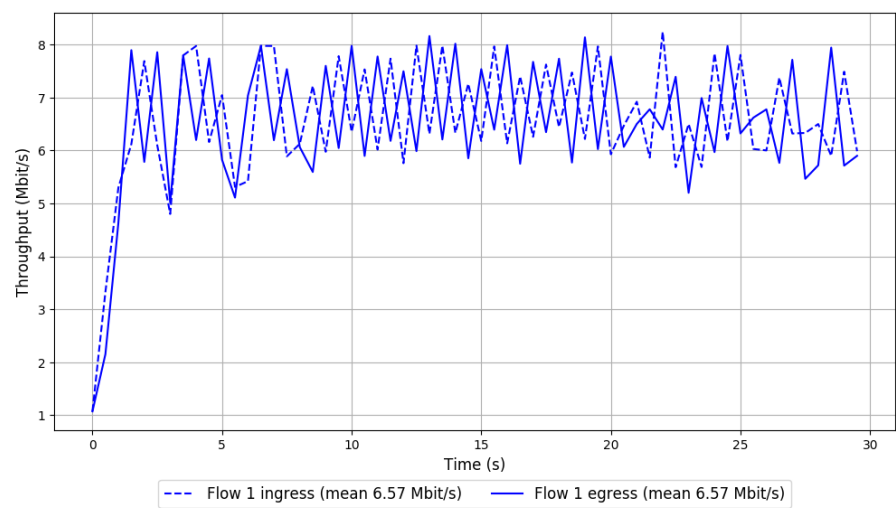
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.513 ms

Loss rate: 0.51%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-24 19:11:00

End at: 2018-04-24 19:11:30

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 64.504 ms

Loss rate: 0.35%

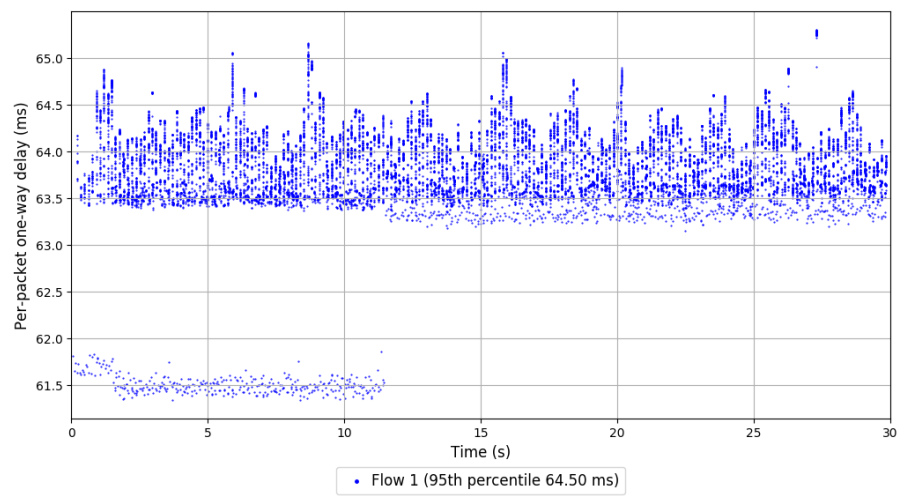
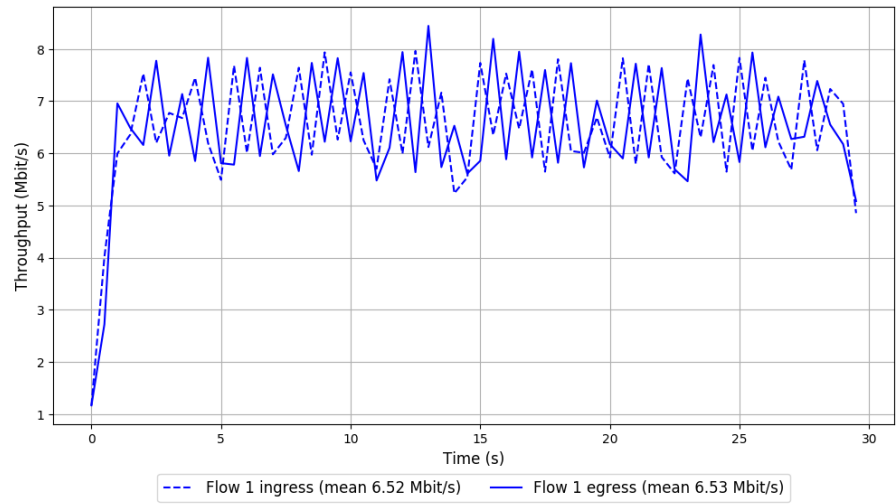
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 64.504 ms

Loss rate: 0.35%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-24 19:24:14

End at: 2018-04-24 19:24:44

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.483 ms

Loss rate: 0.48%

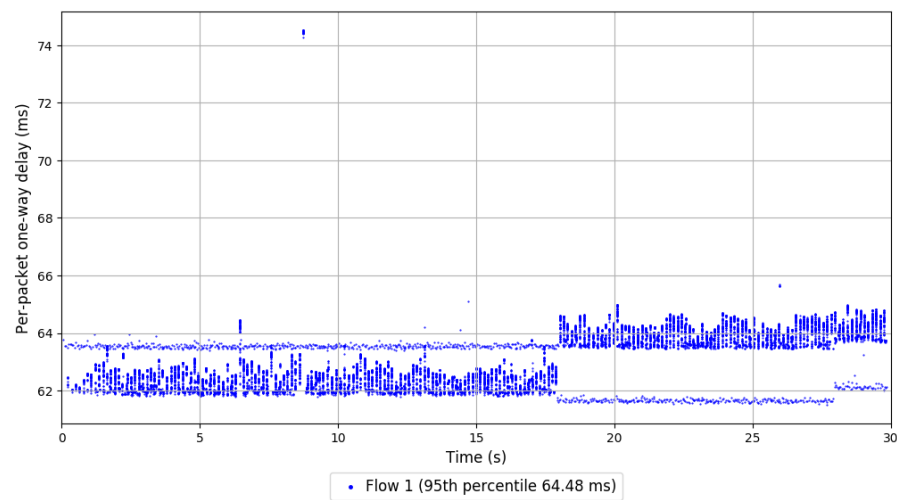
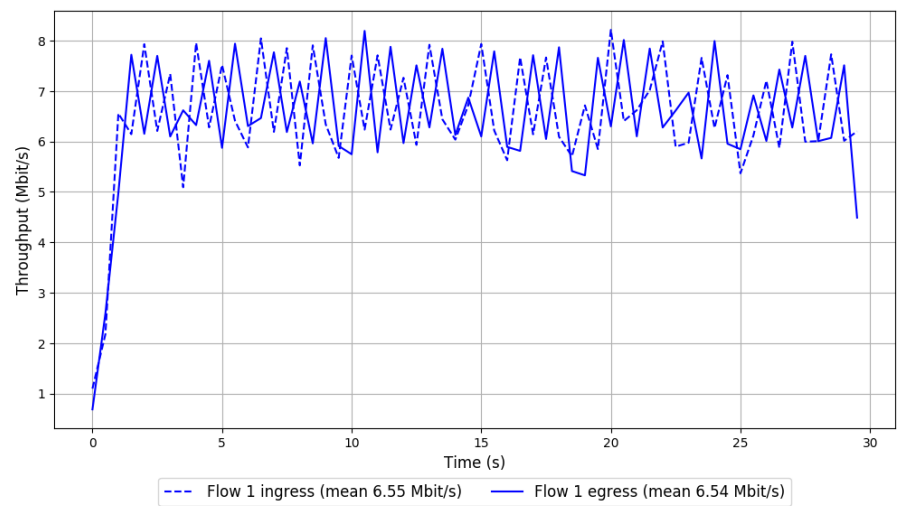
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.483 ms

Loss rate: 0.48%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-24 19:37:43

End at: 2018-04-24 19:38:13

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.481 ms

Loss rate: 0.51%

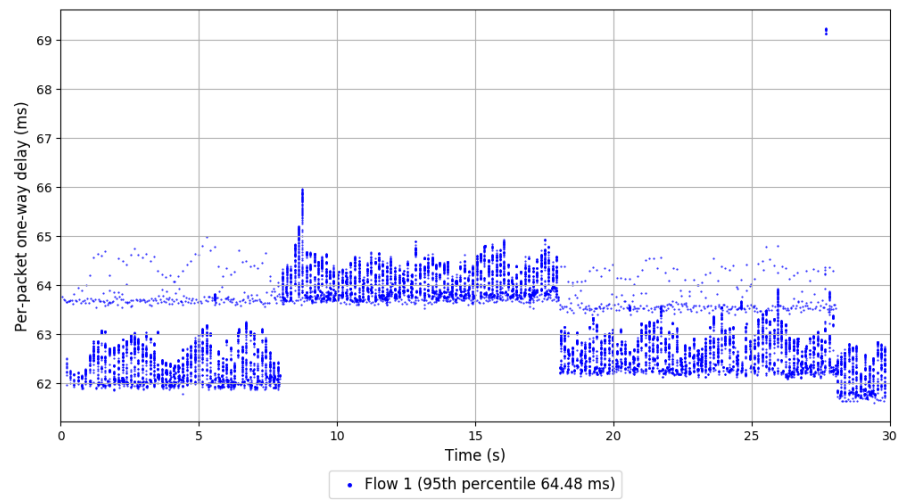
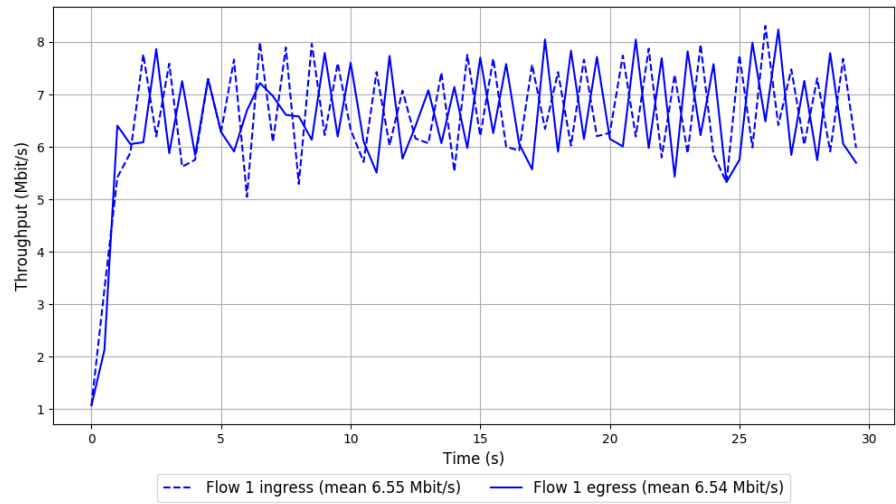
-- Flow 1:

Average throughput: 6.54 Mbit/s

95th percentile per-packet one-way delay: 64.481 ms

Loss rate: 0.51%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-24 19:51:06

End at: 2018-04-24 19:51:36

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.615 ms

Loss rate: 0.47%

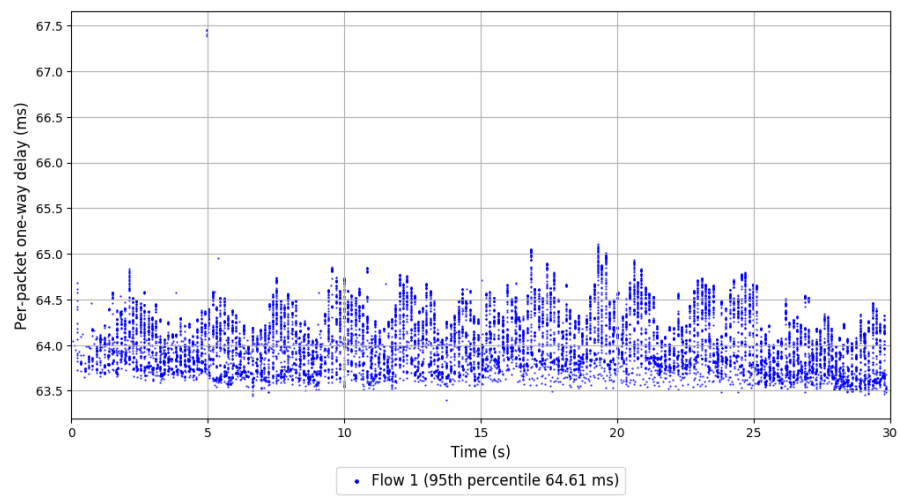
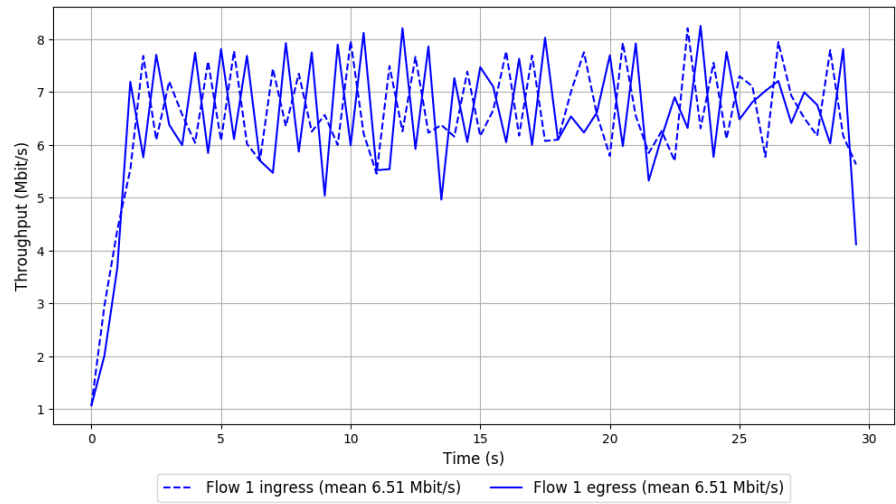
-- Flow 1:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.615 ms

Loss rate: 0.47%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-24 20:04:23

End at: 2018-04-24 20:04:53

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.54 Mbit/s

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

Loss rate: 0.46%

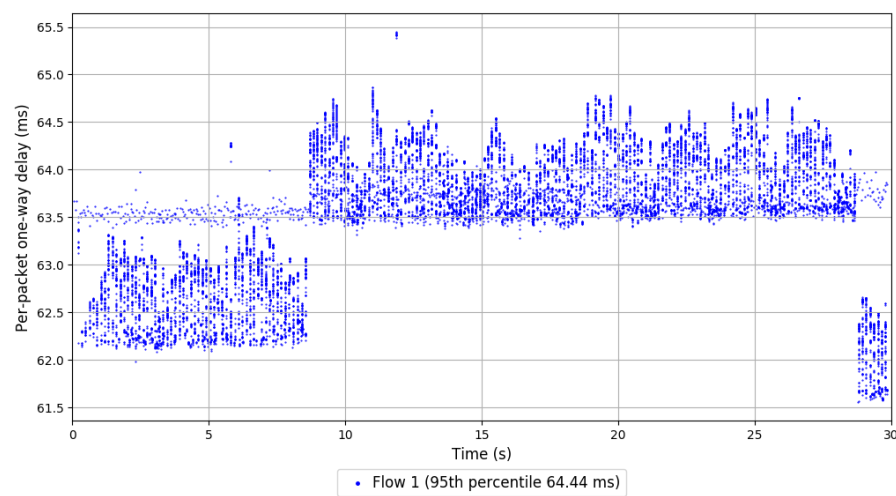
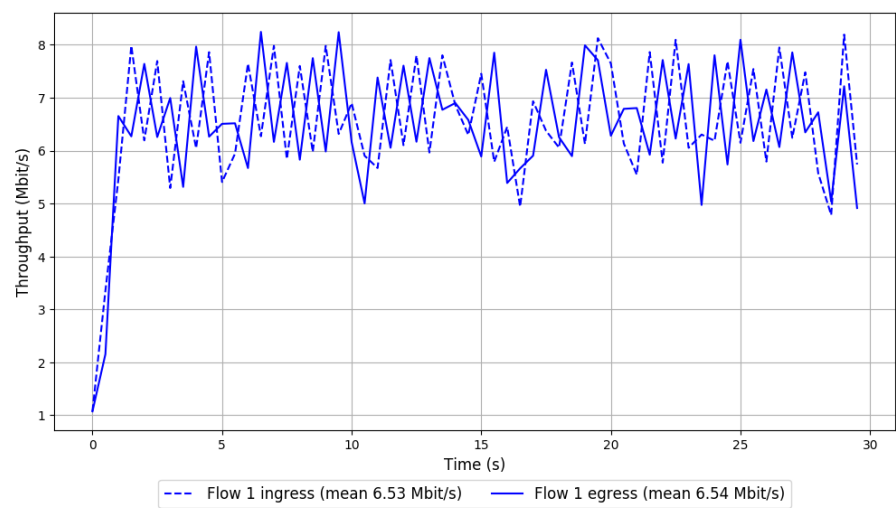
-- Flow 1:

Average throughput: 6.54 Mbit/s

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

Loss rate: 0.46%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-24 20:17:52

End at: 2018-04-24 20:18:22

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.654 ms

Loss rate: 0.58%

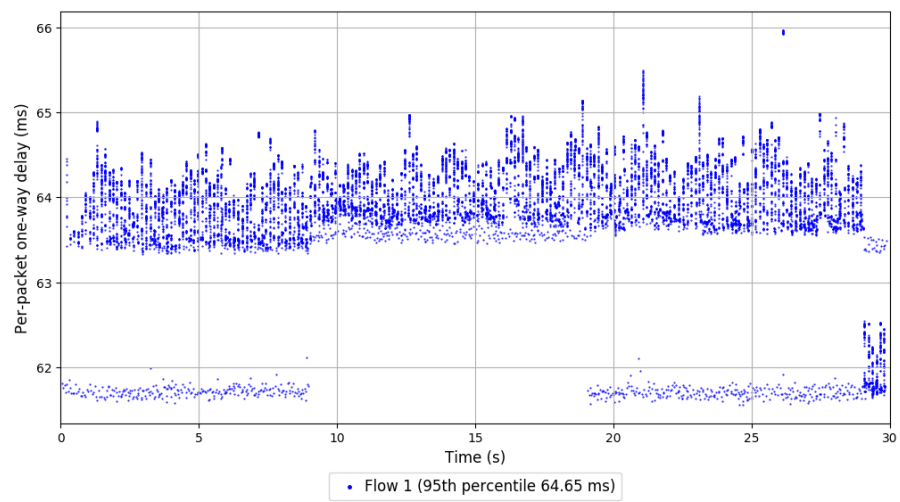
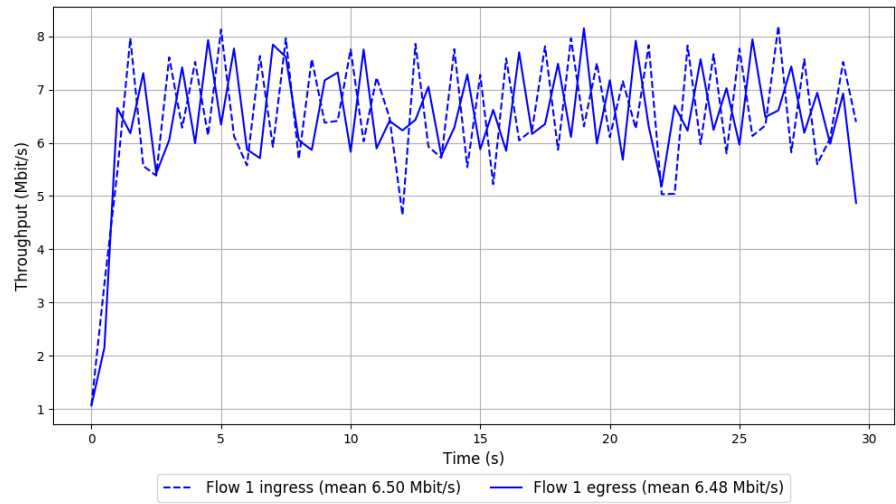
-- Flow 1:

Average throughput: 6.48 Mbit/s

95th percentile per-packet one-way delay: 64.654 ms

Loss rate: 0.58%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-24 20:31:31

End at: 2018-04-24 20:32:01

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.554 ms

Loss rate: 0.51%

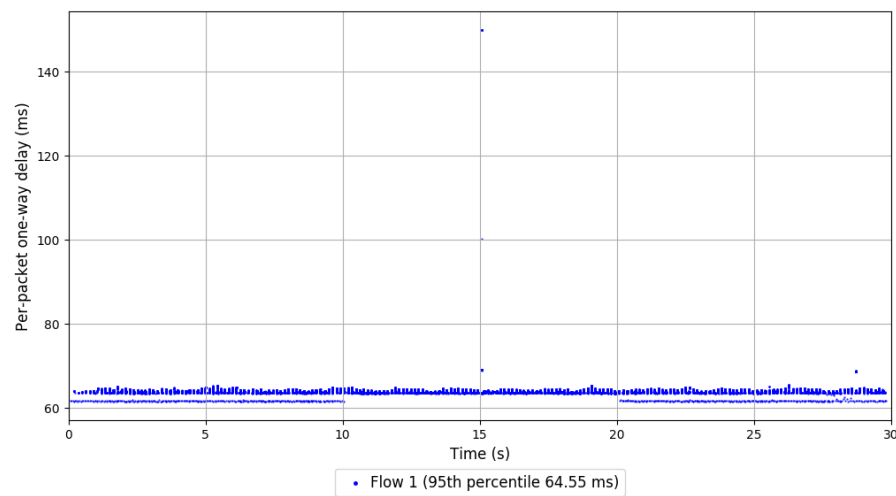
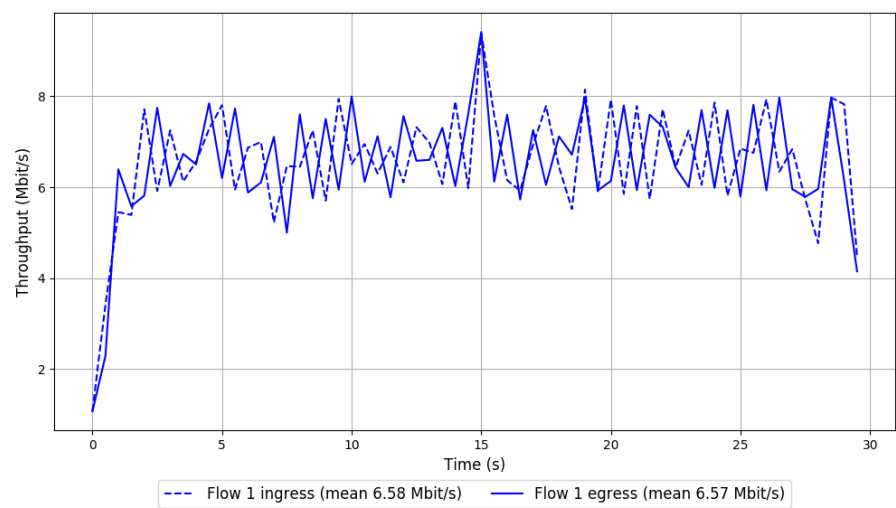
-- Flow 1:

Average throughput: 6.57 Mbit/s

95th percentile per-packet one-way delay: 64.554 ms

Loss rate: 0.51%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-24 20:45:06

End at: 2018-04-24 20:45:36

Below is generated by plot.py at 2018-04-24 23:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 62.879 ms

Loss rate: 0.50%

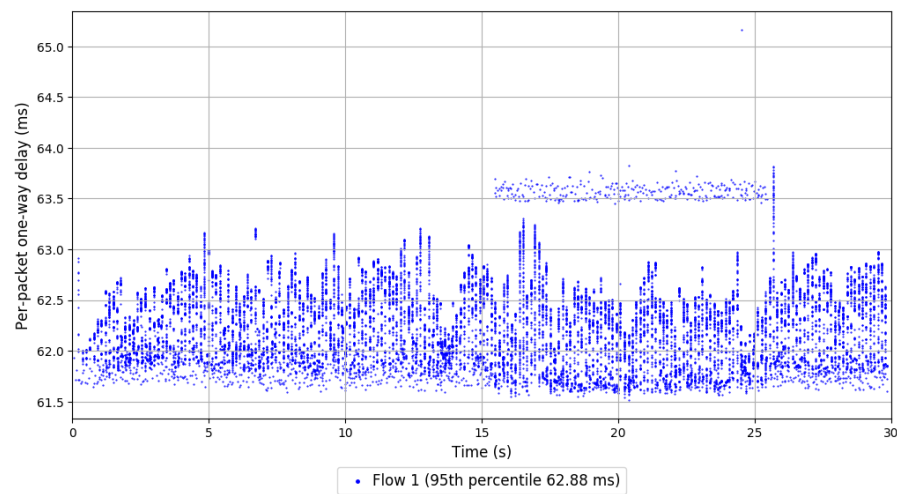
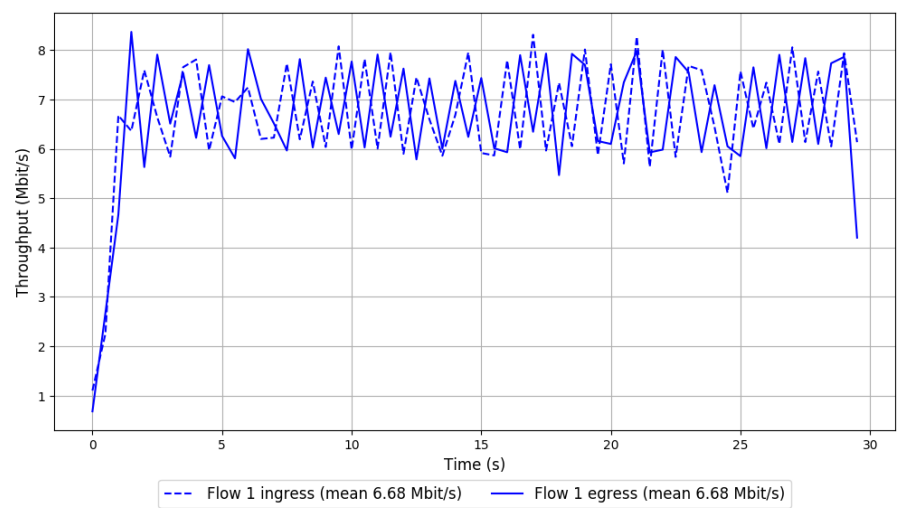
-- Flow 1:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 62.879 ms

Loss rate: 0.50%

Run 10: Report of Sprout — Data Link

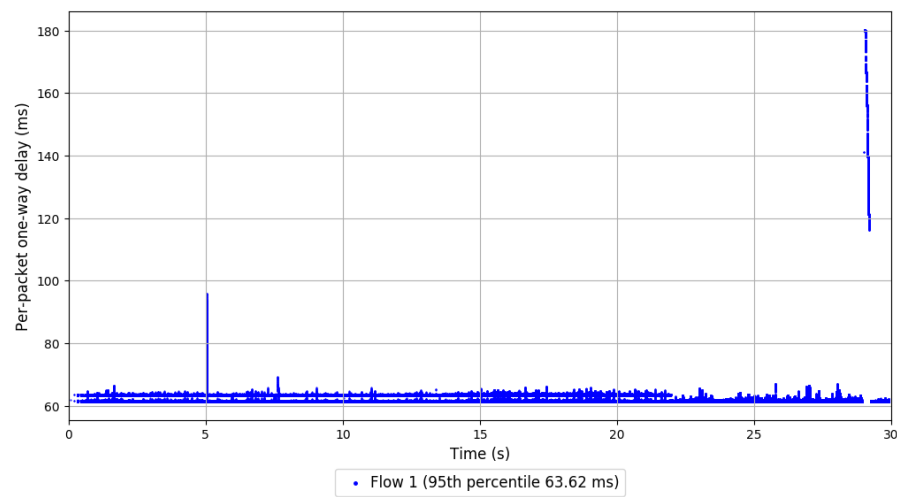
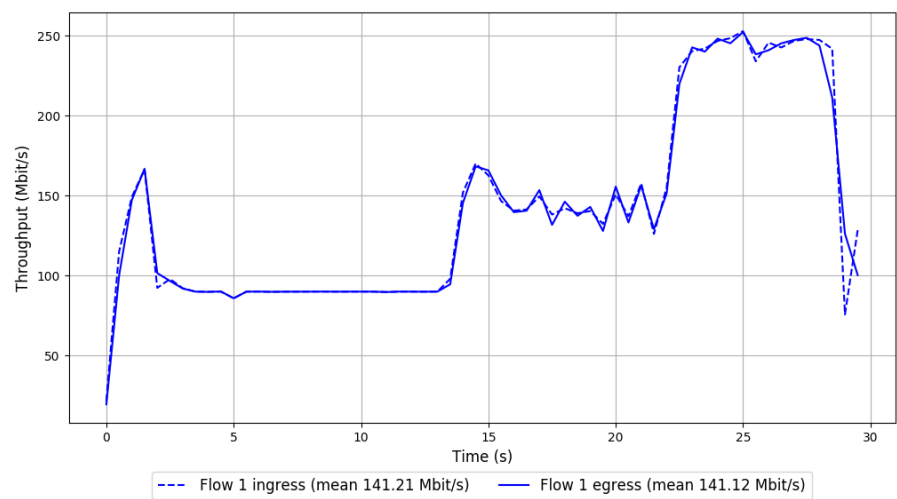


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 18:53:20
End at: 2018-04-24 18:53:50

# Below is generated by plot.py at 2018-04-24 23:39:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.12 Mbit/s
95th percentile per-packet one-way delay: 63.625 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 141.12 Mbit/s
95th percentile per-packet one-way delay: 63.625 ms
Loss rate: 0.48%
```

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

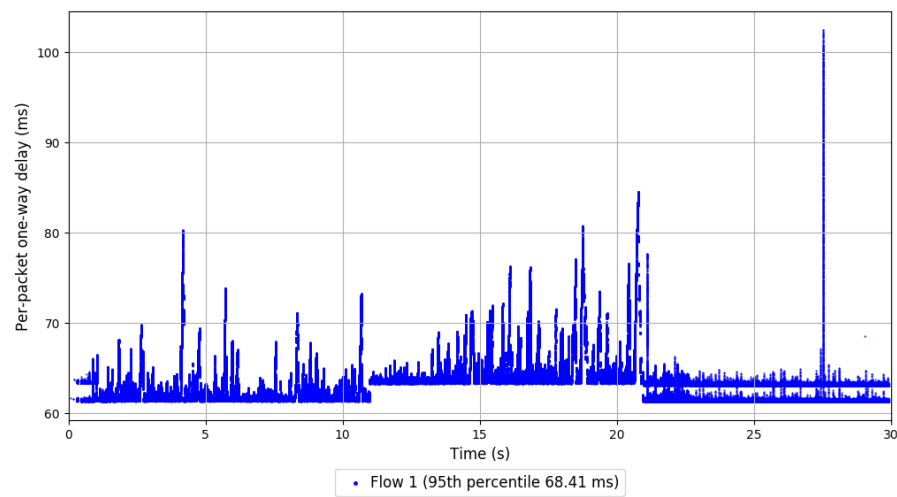
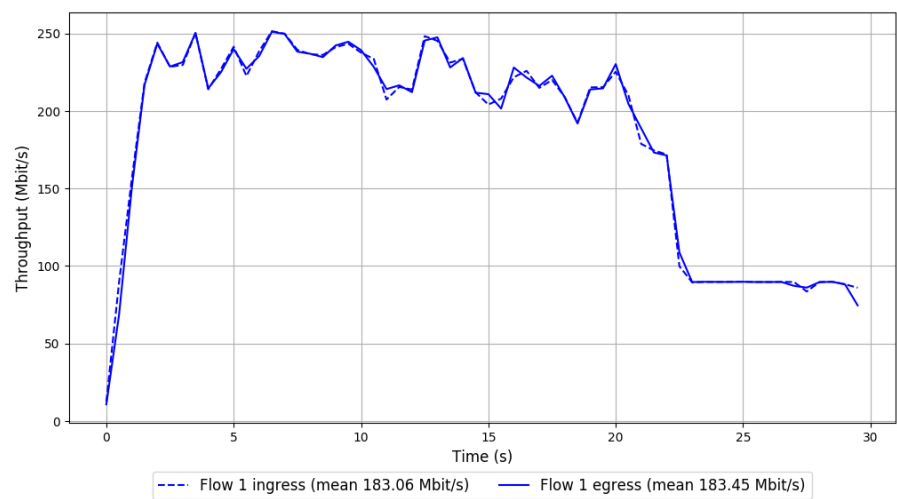


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 19:06:40
End at: 2018-04-24 19:07:11

# Below is generated by plot.py at 2018-04-24 23:39:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.45 Mbit/s
95th percentile per-packet one-way delay: 68.411 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 183.45 Mbit/s
95th percentile per-packet one-way delay: 68.411 ms
Loss rate: 0.21%
```

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

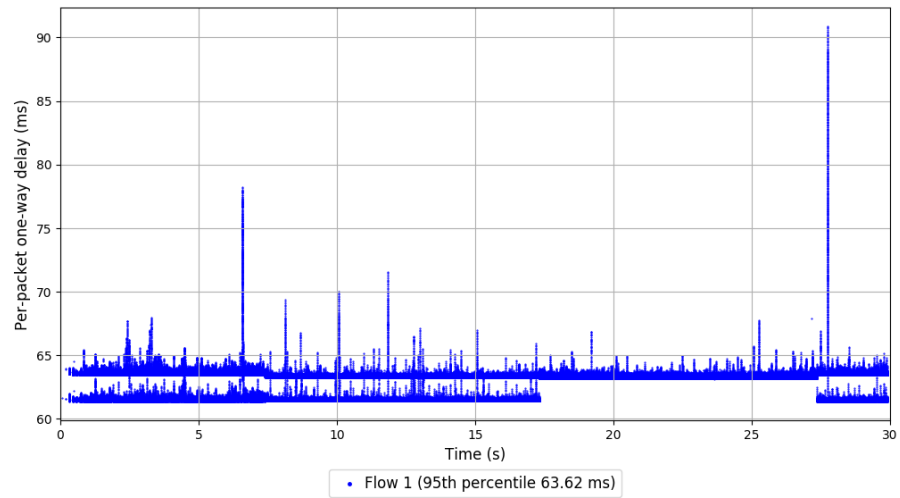
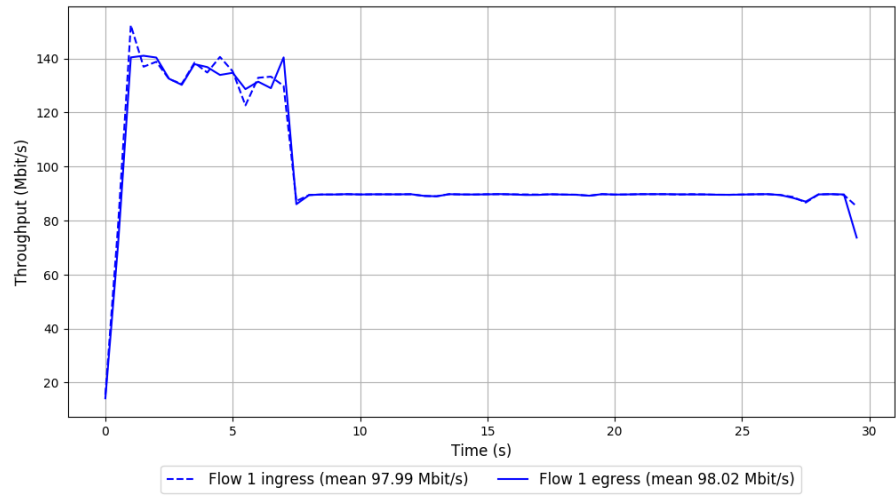


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 19:20:04
End at: 2018-04-24 19:20:34

# Below is generated by plot.py at 2018-04-24 23:39:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 98.02 Mbit/s
95th percentile per-packet one-way delay: 63.619 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 98.02 Mbit/s
95th percentile per-packet one-way delay: 63.619 ms
Loss rate: 0.39%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 19:33:27

End at: 2018-04-24 19:33:57

Below is generated by plot.py at 2018-04-24 23:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.22 Mbit/s

95th percentile per-packet one-way delay: 64.964 ms

Loss rate: 0.50%

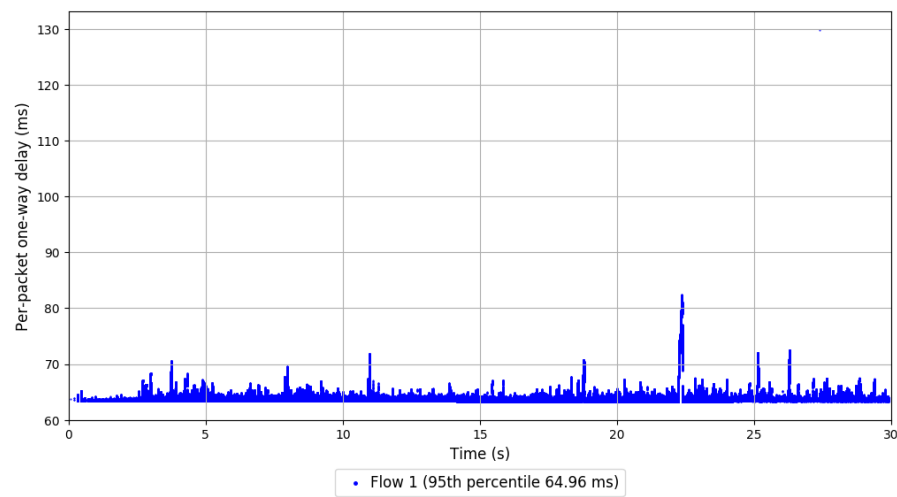
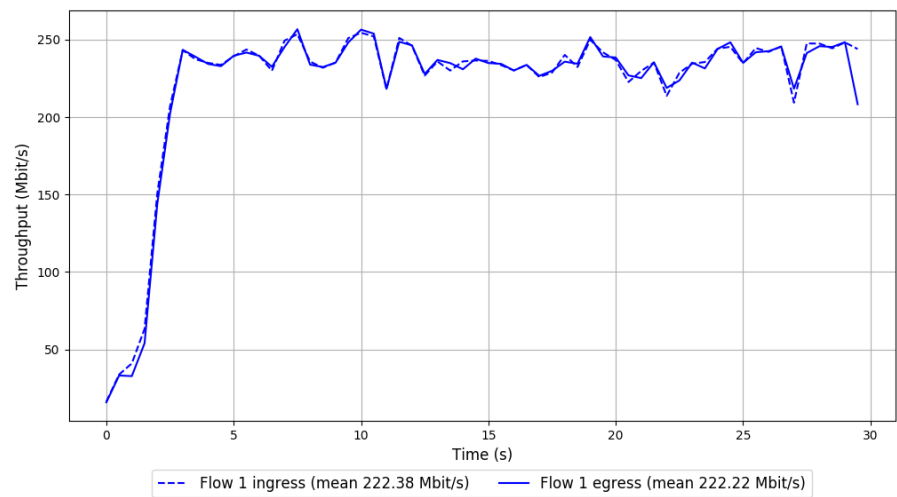
-- Flow 1:

Average throughput: 222.22 Mbit/s

95th percentile per-packet one-way delay: 64.964 ms

Loss rate: 0.50%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 19:46:51

End at: 2018-04-24 19:47:21

Below is generated by plot.py at 2018-04-24 23:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.12 Mbit/s

95th percentile per-packet one-way delay: 64.996 ms

Loss rate: 0.33%

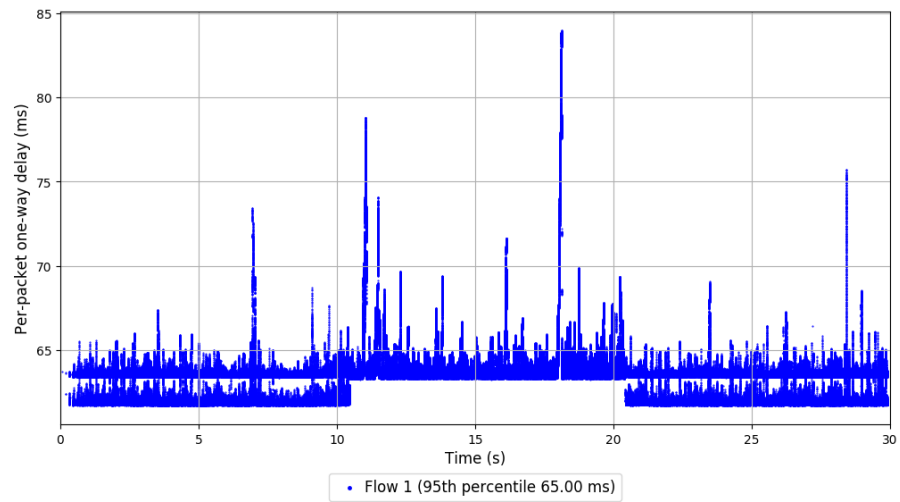
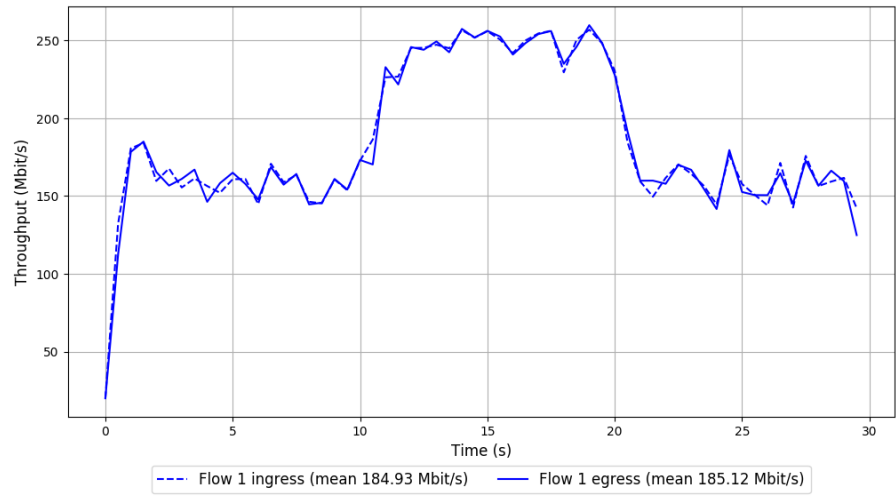
-- Flow 1:

Average throughput: 185.12 Mbit/s

95th percentile per-packet one-way delay: 64.996 ms

Loss rate: 0.33%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 20:00:11

End at: 2018-04-24 20:00:41

Below is generated by plot.py at 2018-04-24 23:40:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.41 Mbit/s

95th percentile per-packet one-way delay: 67.253 ms

Loss rate: 0.20%

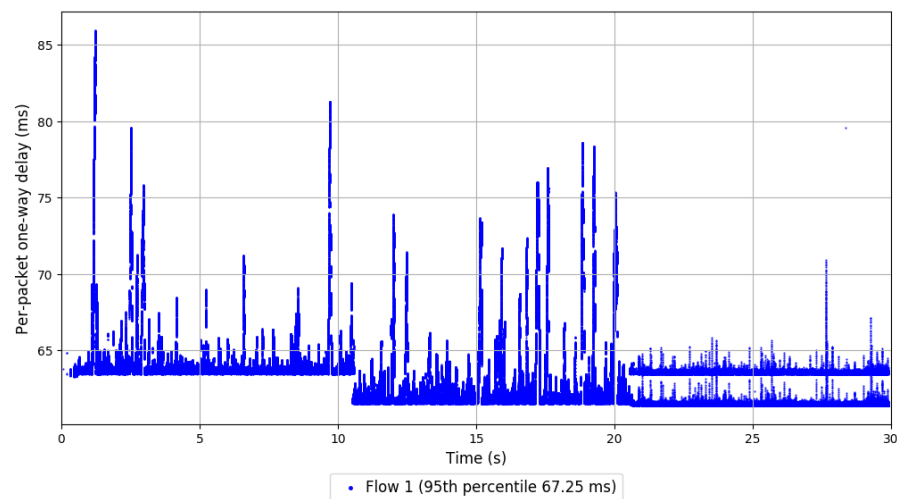
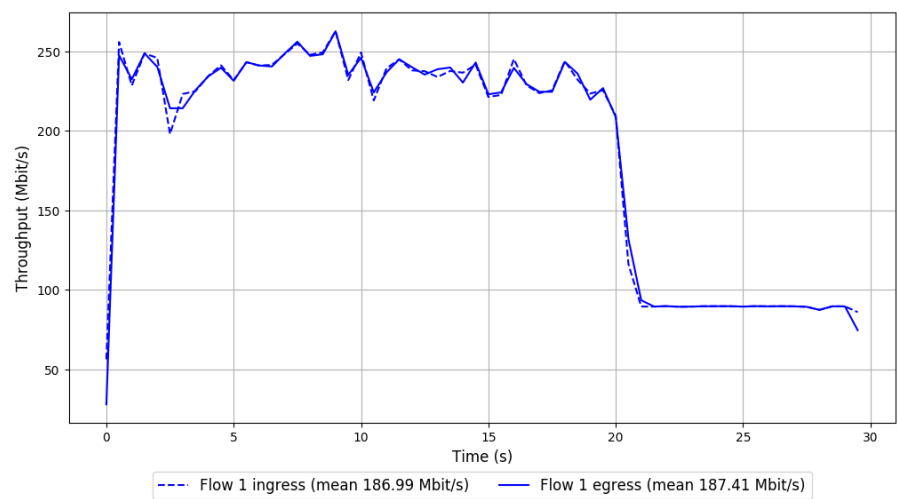
-- Flow 1:

Average throughput: 187.41 Mbit/s

95th percentile per-packet one-way delay: 67.253 ms

Loss rate: 0.20%

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

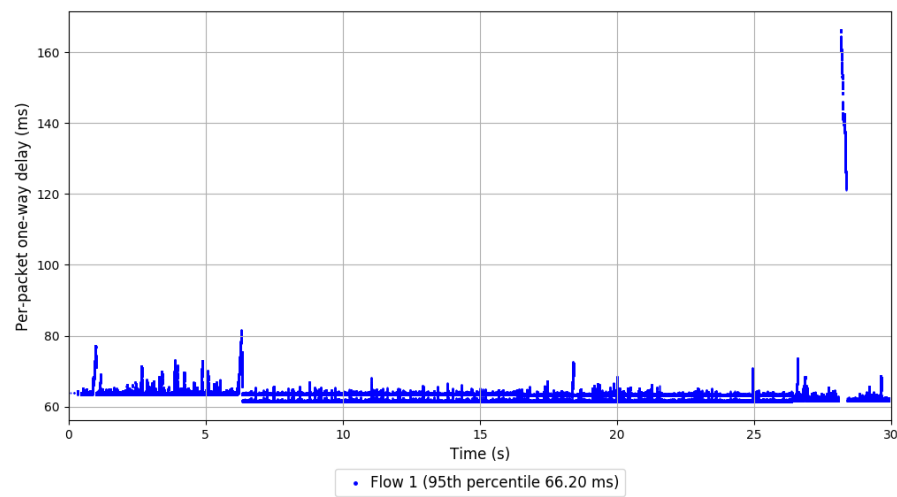
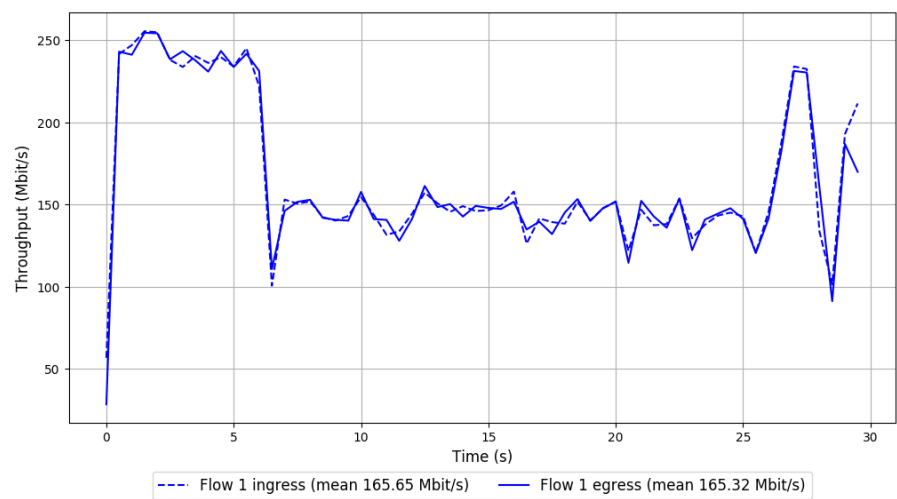


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 20:13:35
End at: 2018-04-24 20:14:05

# Below is generated by plot.py at 2018-04-24 23:41:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.32 Mbit/s
95th percentile per-packet one-way delay: 66.201 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 165.32 Mbit/s
95th percentile per-packet one-way delay: 66.201 ms
Loss rate: 0.62%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 20:27:03

End at: 2018-04-24 20:27:33

Below is generated by plot.py at 2018-04-24 23:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.89 Mbit/s

95th percentile per-packet one-way delay: 66.764 ms

Loss rate: 0.33%

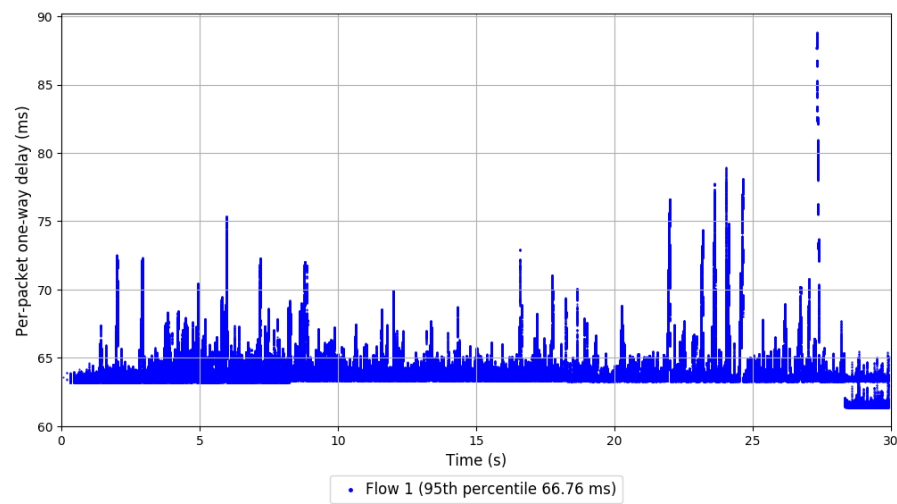
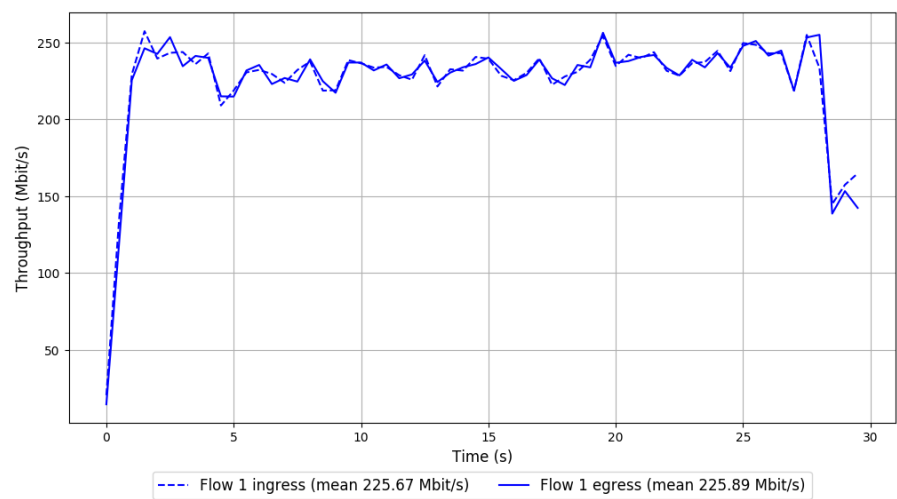
-- Flow 1:

Average throughput: 225.89 Mbit/s

95th percentile per-packet one-way delay: 66.764 ms

Loss rate: 0.33%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 20:40:56

End at: 2018-04-24 20:41:26

Below is generated by plot.py at 2018-04-24 23:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.56 Mbit/s

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

Loss rate: 0.04%

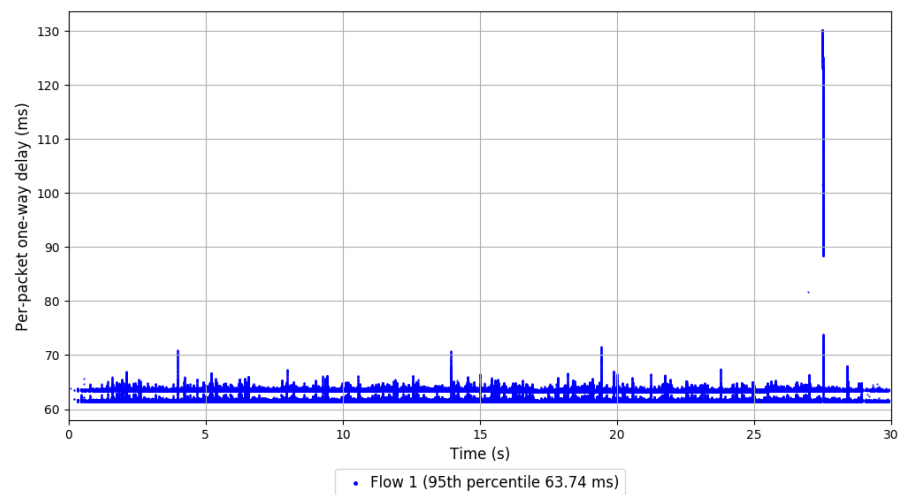
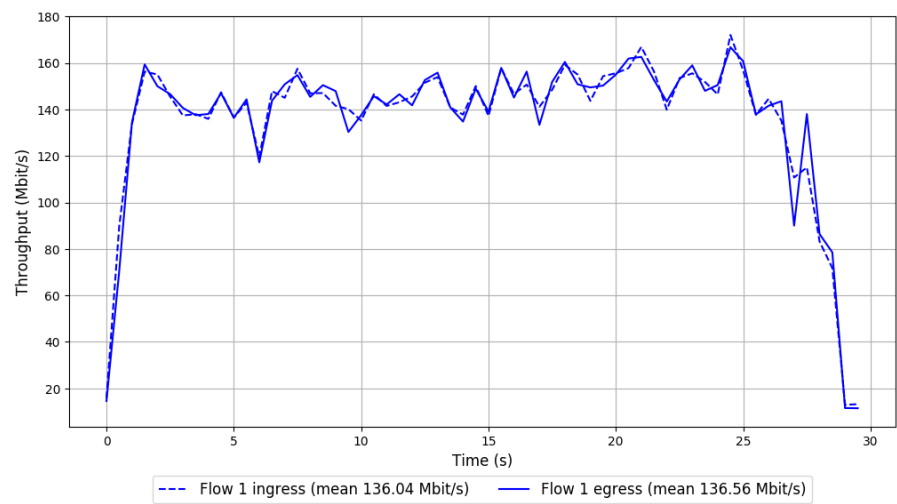
-- Flow 1:

Average throughput: 136.56 Mbit/s

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

Loss rate: 0.04%

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

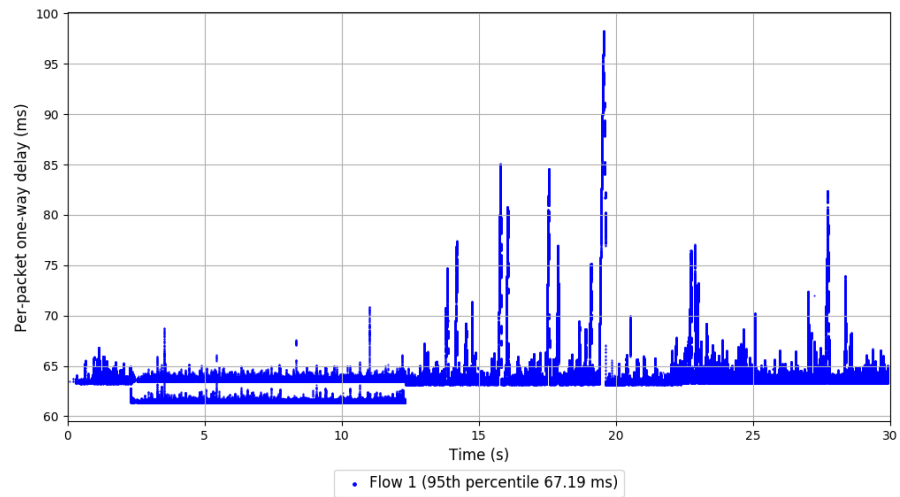
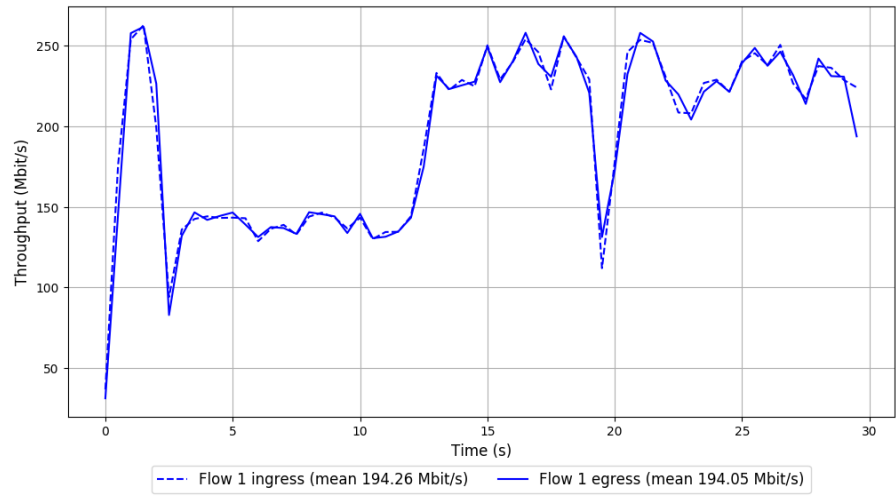


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 20:54:09
End at: 2018-04-24 20:54:39

# Below is generated by plot.py at 2018-04-24 23:45:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.05 Mbit/s
95th percentile per-packet one-way delay: 67.191 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 194.05 Mbit/s
95th percentile per-packet one-way delay: 67.191 ms
Loss rate: 0.52%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 18:52:36

End at: 2018-04-24 18:53:06

Below is generated by plot.py at 2018-04-24 23:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.50 Mbit/s

95th percentile per-packet one-way delay: 71.325 ms

Loss rate: 0.29%

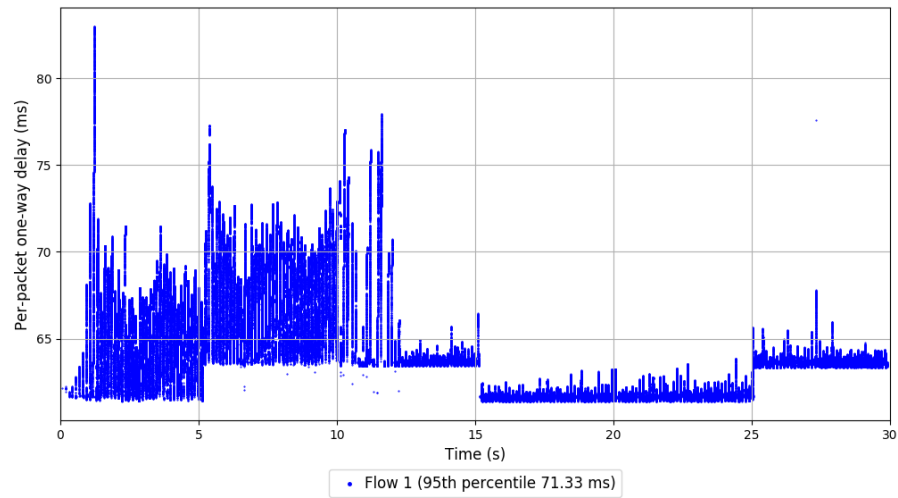
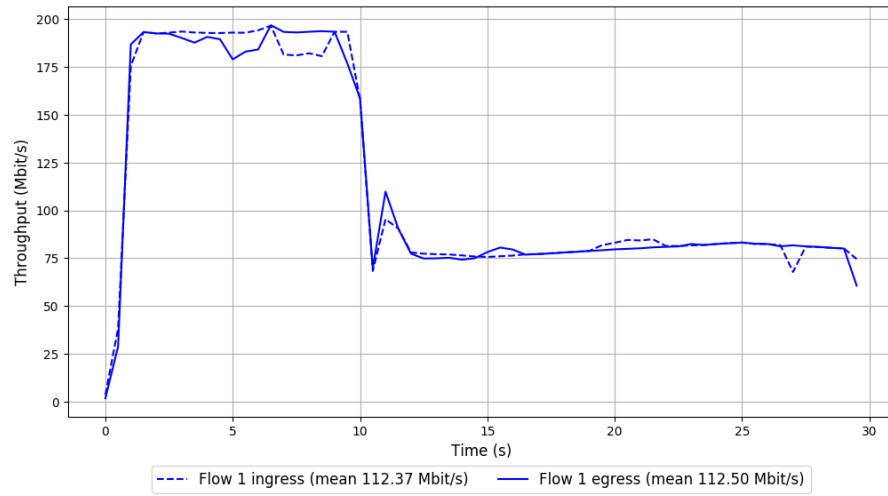
-- Flow 1:

Average throughput: 112.50 Mbit/s

95th percentile per-packet one-way delay: 71.325 ms

Loss rate: 0.29%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 19:05:54

End at: 2018-04-24 19:06:24

Below is generated by plot.py at 2018-04-24 23:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.82 Mbit/s

95th percentile per-packet one-way delay: 73.486 ms

Loss rate: 0.39%

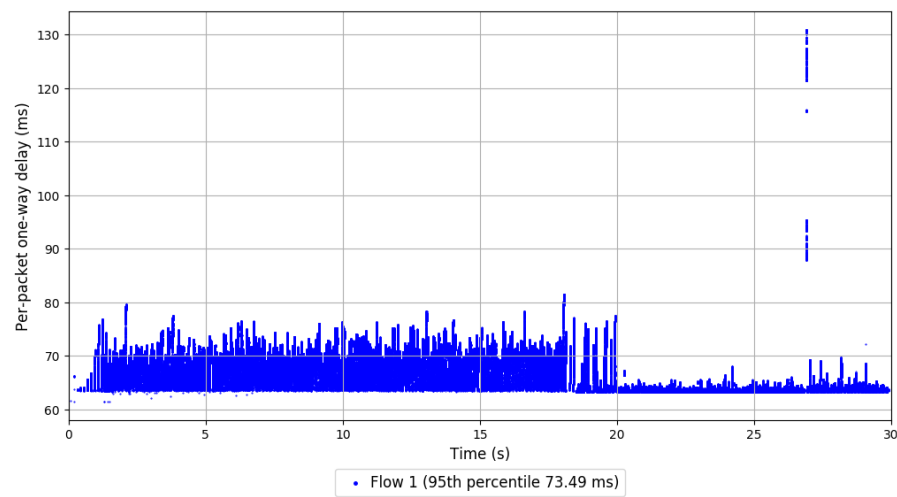
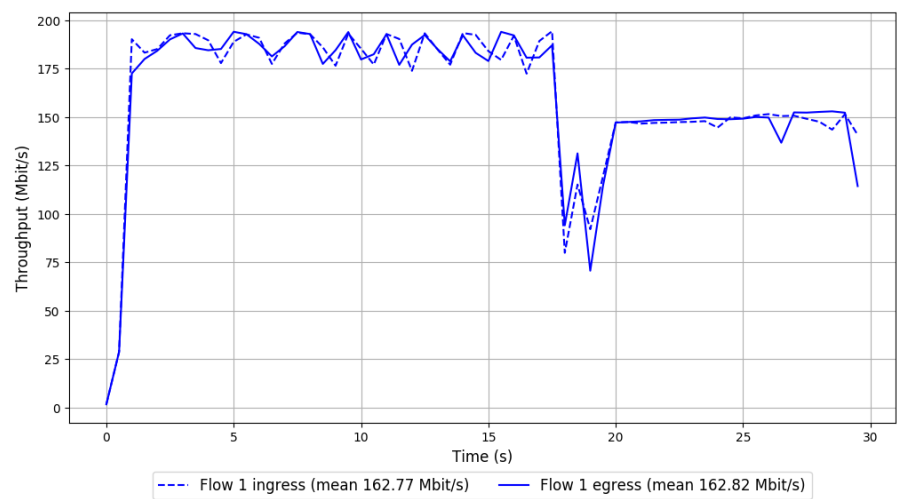
-- Flow 1:

Average throughput: 162.82 Mbit/s

95th percentile per-packet one-way delay: 73.486 ms

Loss rate: 0.39%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 19:19:23

End at: 2018-04-24 19:19:53

Below is generated by plot.py at 2018-04-24 23:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.14 Mbit/s

95th percentile per-packet one-way delay: 64.454 ms

Loss rate: 0.41%

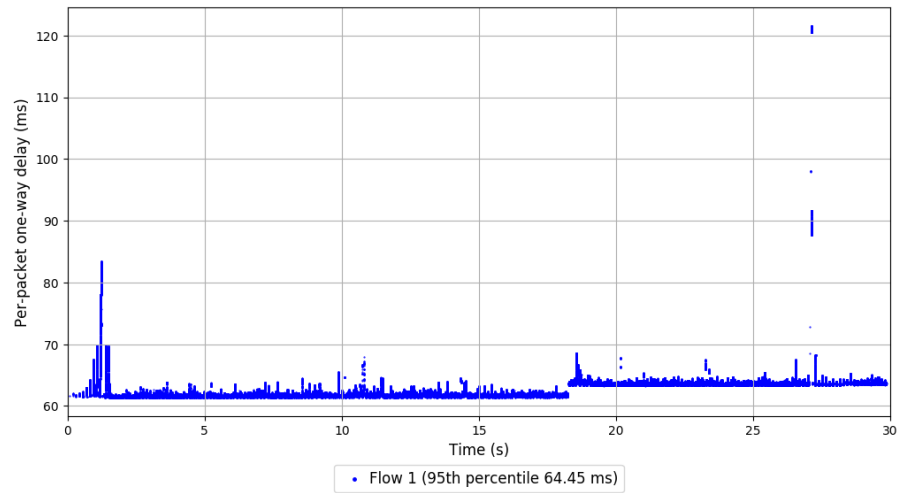
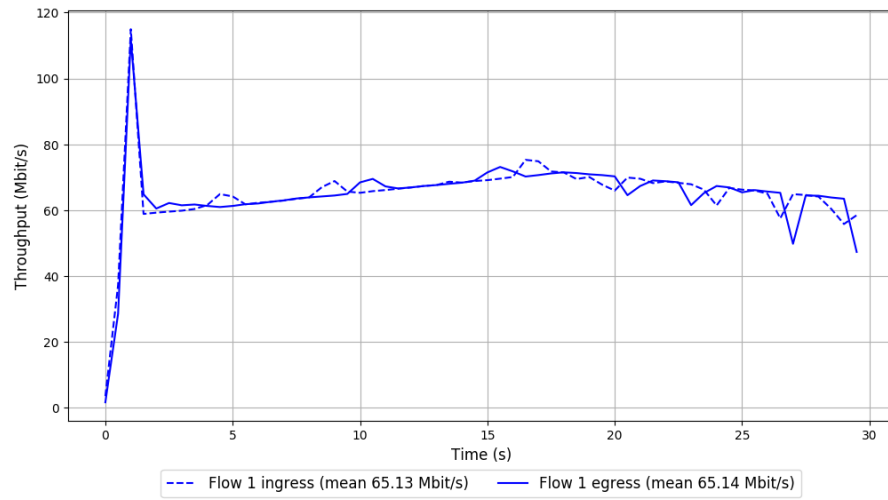
-- Flow 1:

Average throughput: 65.14 Mbit/s

95th percentile per-packet one-way delay: 64.454 ms

Loss rate: 0.41%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 19:32:41

End at: 2018-04-24 19:33:11

Below is generated by plot.py at 2018-04-24 23:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.52 Mbit/s

95th percentile per-packet one-way delay: 73.145 ms

Loss rate: 0.44%

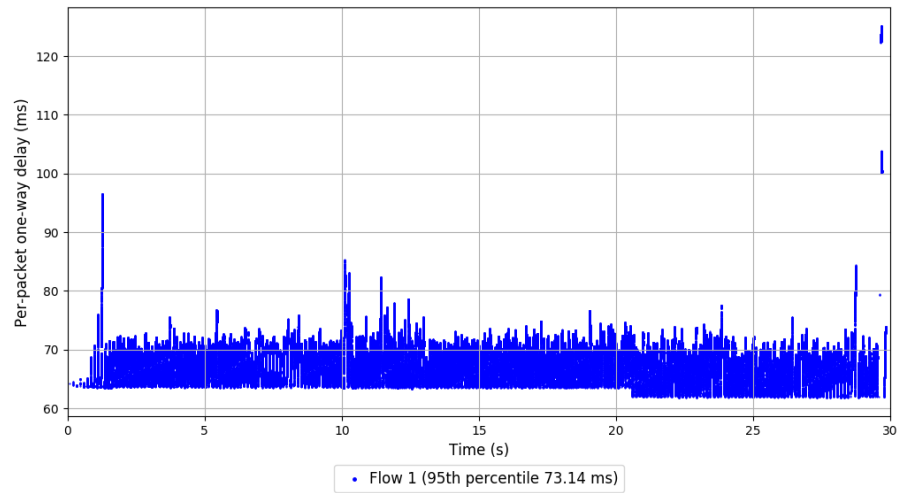
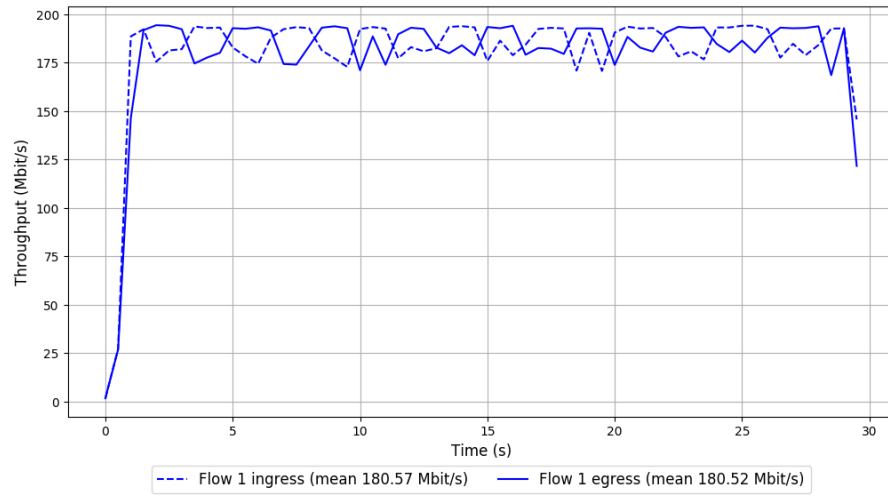
-- Flow 1:

Average throughput: 180.52 Mbit/s

95th percentile per-packet one-way delay: 73.145 ms

Loss rate: 0.44%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 19:46:05

End at: 2018-04-24 19:46:35

Below is generated by plot.py at 2018-04-24 23:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.37 Mbit/s

95th percentile per-packet one-way delay: 73.156 ms

Loss rate: 0.48%

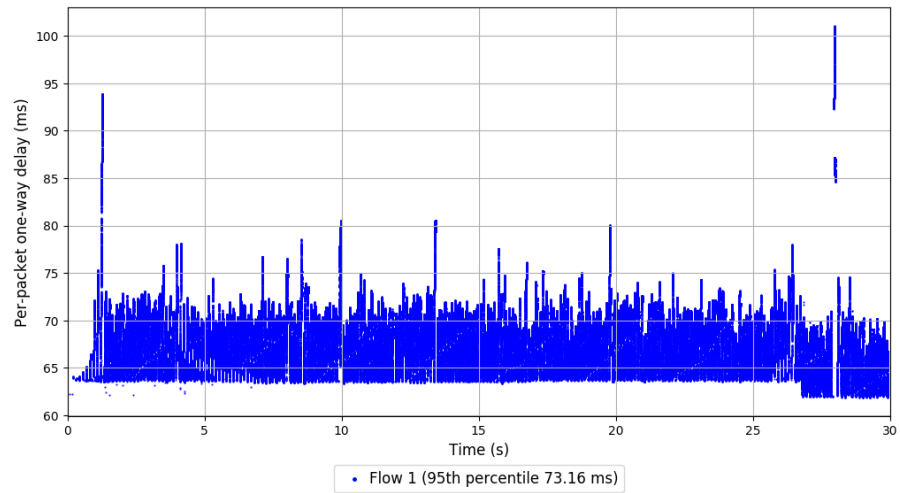
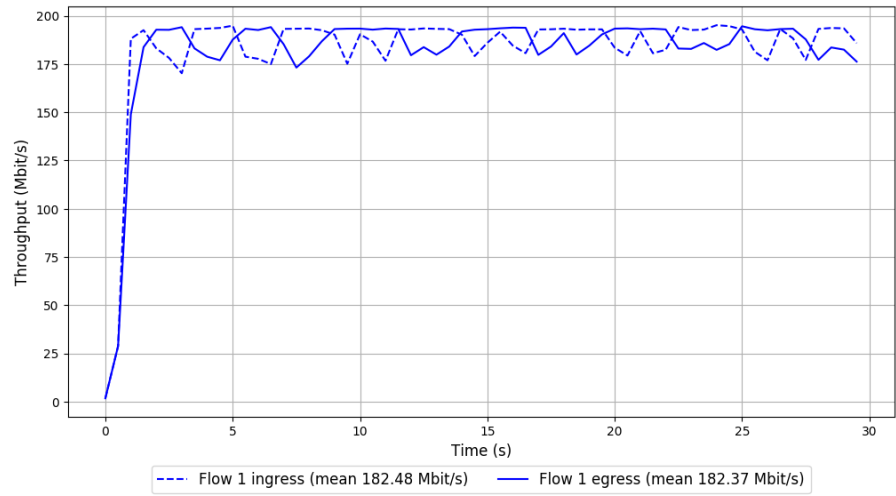
-- Flow 1:

Average throughput: 182.37 Mbit/s

95th percentile per-packet one-way delay: 73.156 ms

Loss rate: 0.48%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 19:59:29

End at: 2018-04-24 19:59:59

Below is generated by plot.py at 2018-04-24 23:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.73 Mbit/s

95th percentile per-packet one-way delay: 73.167 ms

Loss rate: 0.33%

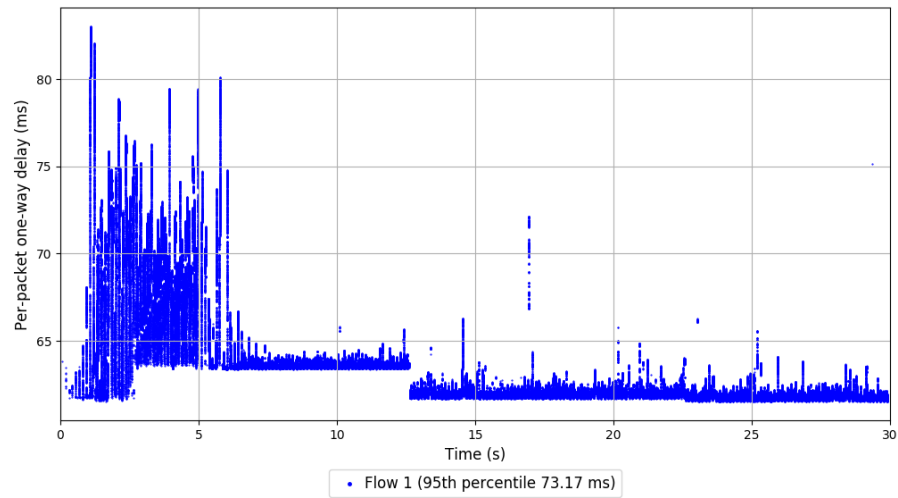
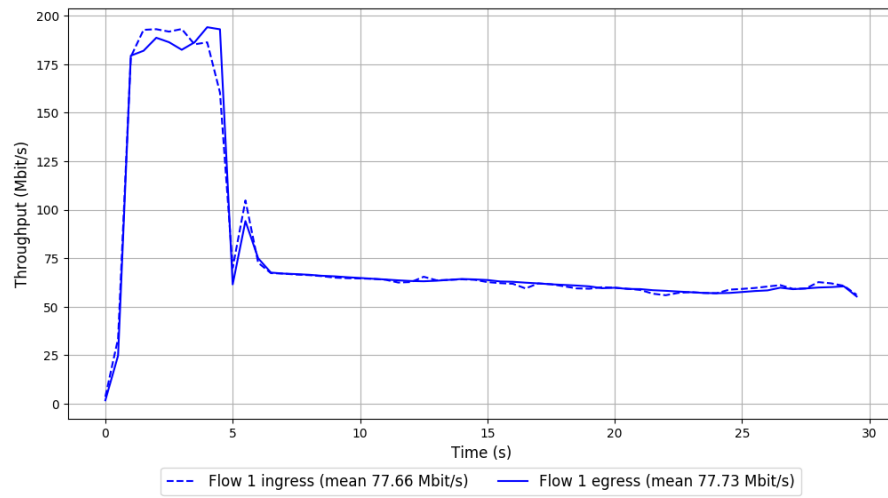
-- Flow 1:

Average throughput: 77.73 Mbit/s

95th percentile per-packet one-way delay: 73.167 ms

Loss rate: 0.33%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 20:12:49

End at: 2018-04-24 20:13:19

Below is generated by plot.py at 2018-04-24 23:45:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.01 Mbit/s

95th percentile per-packet one-way delay: 73.648 ms

Loss rate: 0.26%

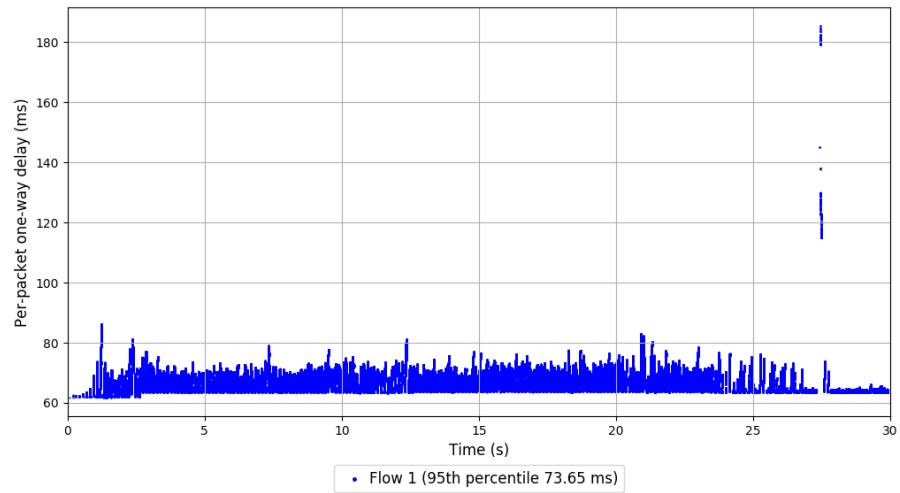
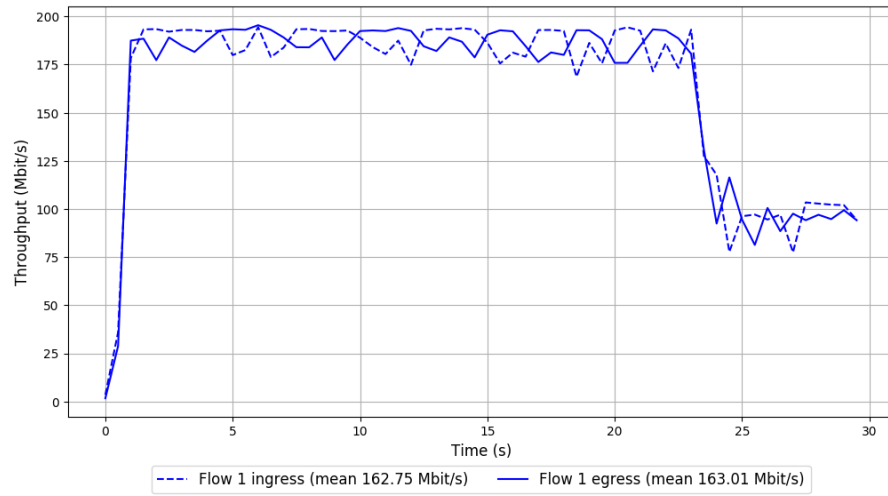
-- Flow 1:

Average throughput: 163.01 Mbit/s

95th percentile per-packet one-way delay: 73.648 ms

Loss rate: 0.26%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 20:26:17

End at: 2018-04-24 20:26:47

Below is generated by plot.py at 2018-04-24 23:45:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.63 Mbit/s

95th percentile per-packet one-way delay: 72.035 ms

Loss rate: 0.20%

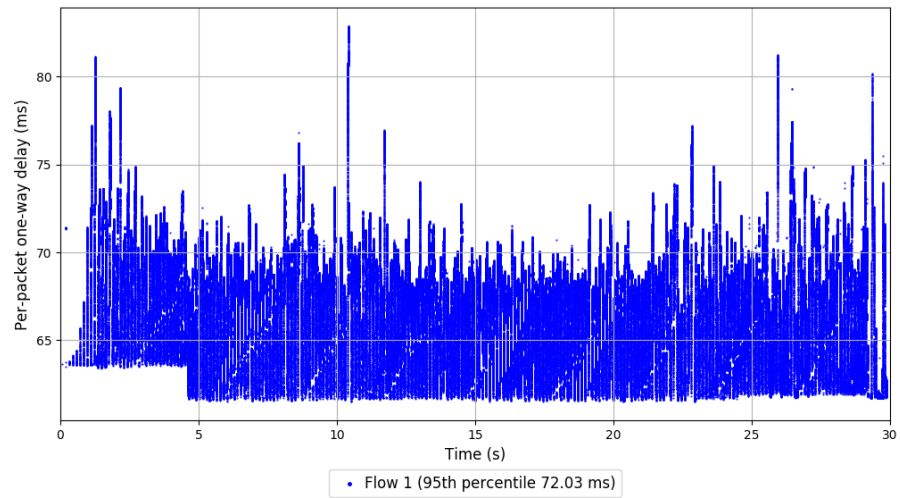
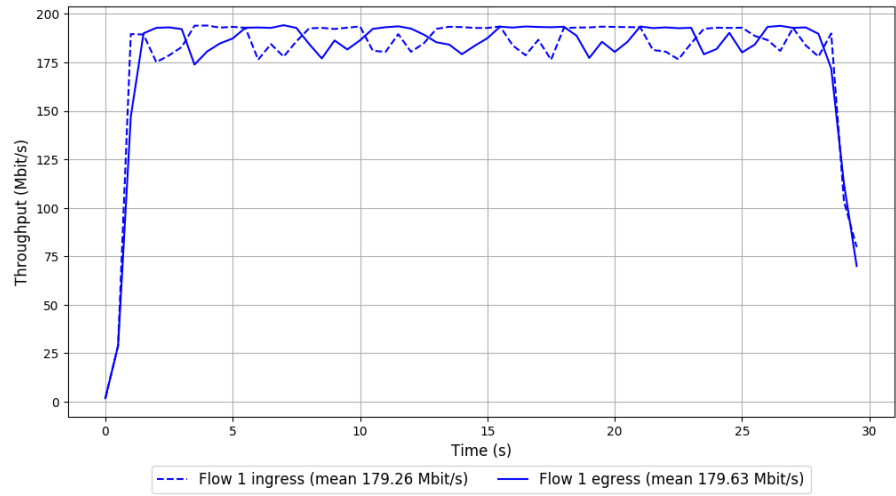
-- Flow 1:

Average throughput: 179.63 Mbit/s

95th percentile per-packet one-way delay: 72.035 ms

Loss rate: 0.20%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 20:40:09

End at: 2018-04-24 20:40:40

Below is generated by plot.py at 2018-04-24 23:45:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.01 Mbit/s

95th percentile per-packet one-way delay: 73.962 ms

Loss rate: 0.18%

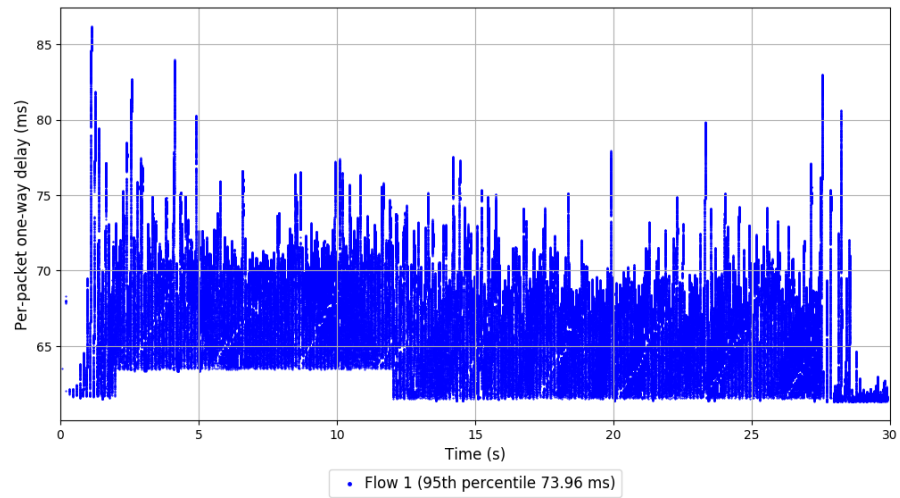
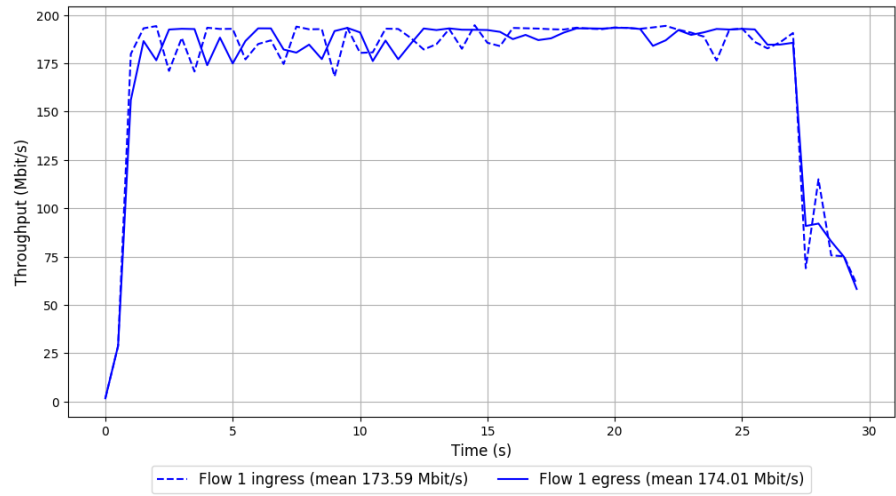
-- Flow 1:

Average throughput: 174.01 Mbit/s

95th percentile per-packet one-way delay: 73.962 ms

Loss rate: 0.18%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 20:53:24

End at: 2018-04-24 20:53:54

Below is generated by plot.py at 2018-04-24 23:45:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.58 Mbit/s

95th percentile per-packet one-way delay: 73.663 ms

Loss rate: 0.22%

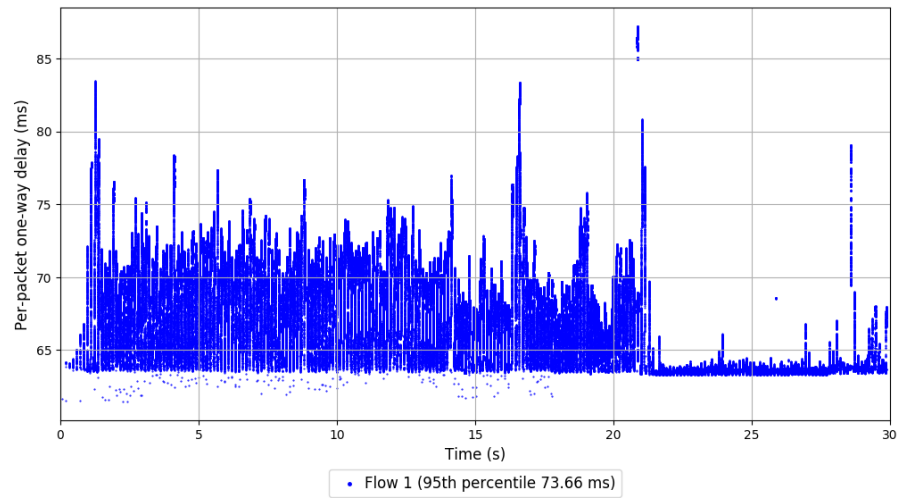
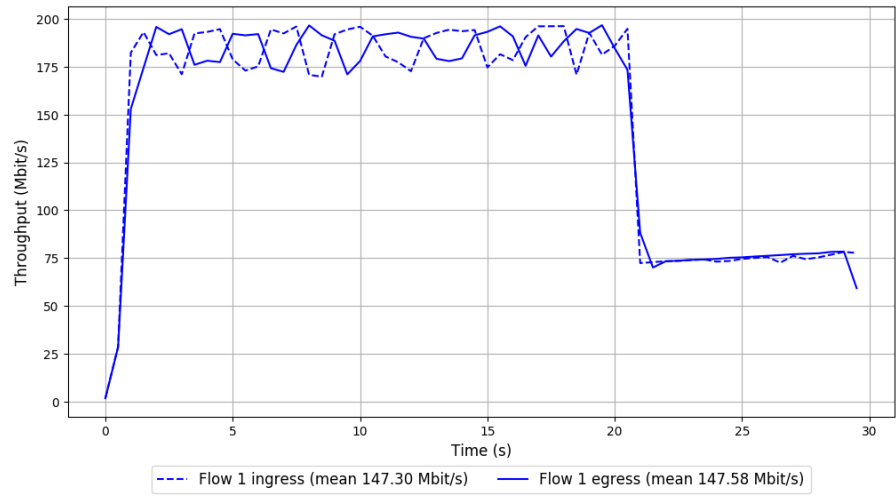
-- Flow 1:

Average throughput: 147.58 Mbit/s

95th percentile per-packet one-way delay: 73.663 ms

Loss rate: 0.22%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-24 18:43:22

End at: 2018-04-24 18:43:52

Below is generated by plot.py at 2018-04-24 23:48:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.42 Mbit/s

95th percentile per-packet one-way delay: 104.601 ms

Loss rate: 0.67%

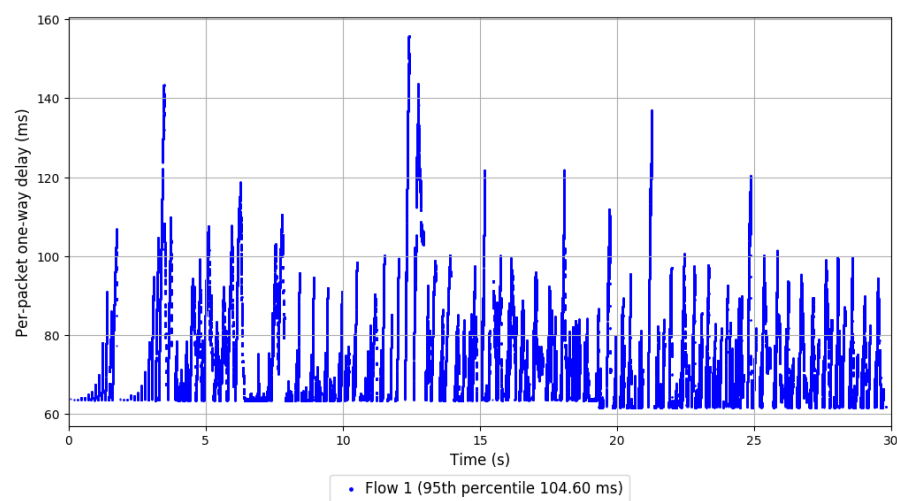
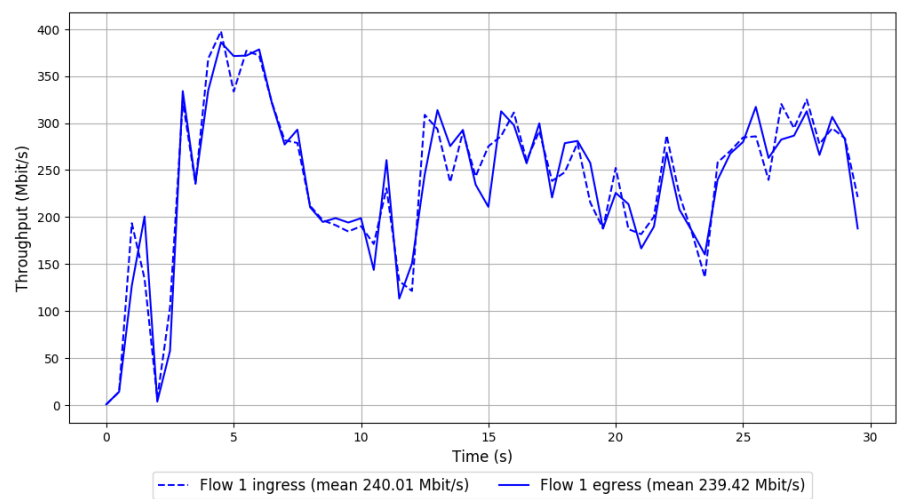
-- Flow 1:

Average throughput: 239.42 Mbit/s

95th percentile per-packet one-way delay: 104.601 ms

Loss rate: 0.67%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-24 18:56:39

End at: 2018-04-24 18:57:09

Below is generated by plot.py at 2018-04-24 23:48:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.78 Mbit/s

95th percentile per-packet one-way delay: 92.018 ms

Loss rate: 1.30%

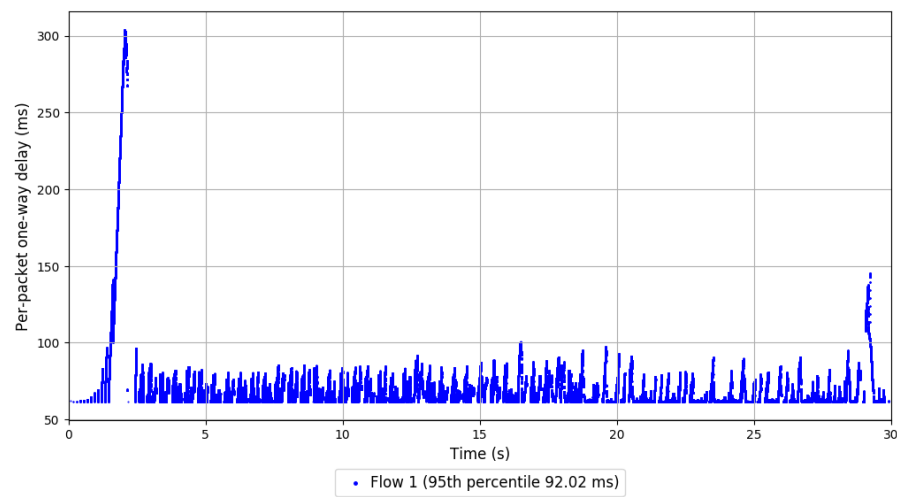
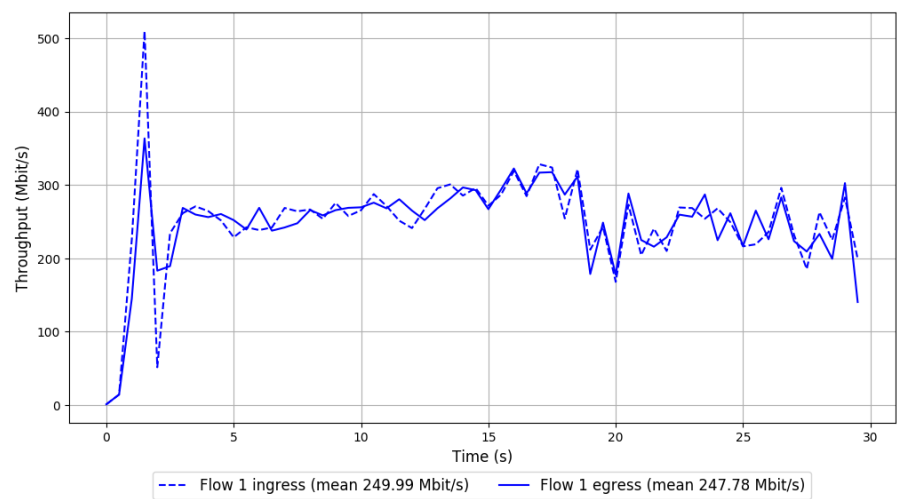
-- Flow 1:

Average throughput: 247.78 Mbit/s

95th percentile per-packet one-way delay: 92.018 ms

Loss rate: 1.30%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-24 19:10:08

End at: 2018-04-24 19:10:38

Below is generated by plot.py at 2018-04-24 23:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.34 Mbit/s

95th percentile per-packet one-way delay: 156.160 ms

Loss rate: 1.19%

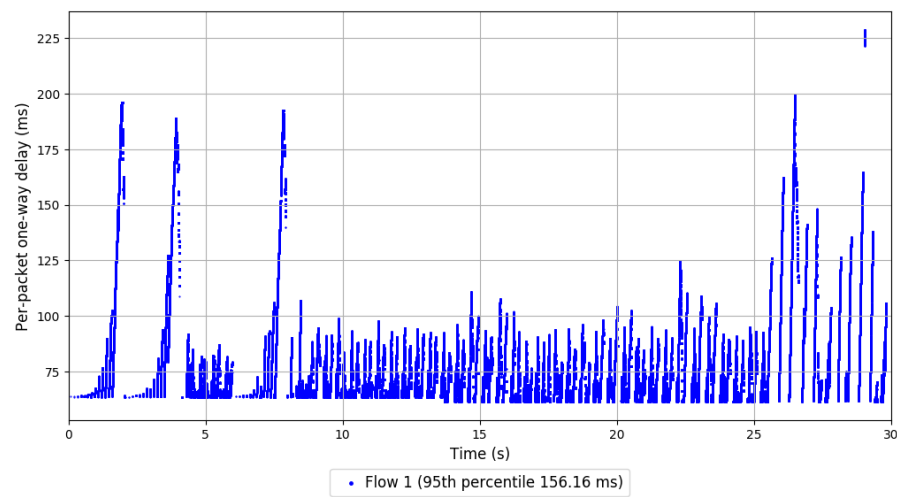
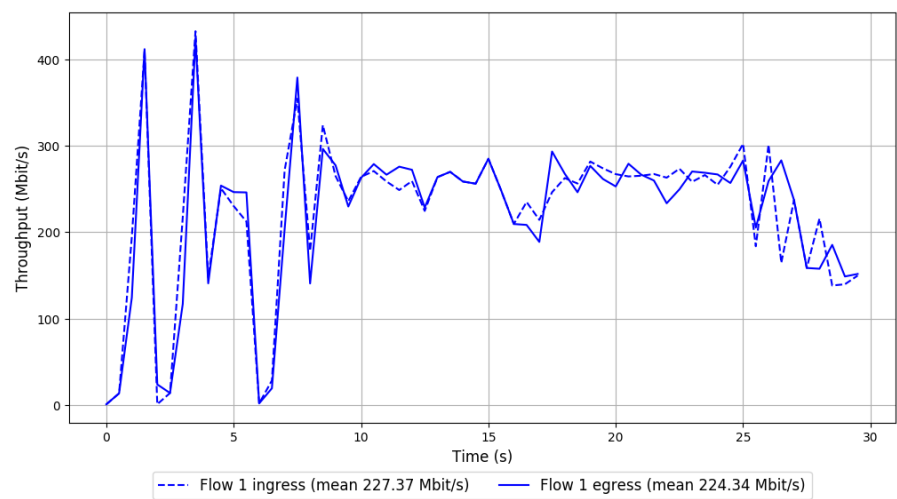
-- Flow 1:

Average throughput: 224.34 Mbit/s

95th percentile per-packet one-way delay: 156.160 ms

Loss rate: 1.19%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-24 19:23:24

End at: 2018-04-24 19:23:54

Below is generated by plot.py at 2018-04-24 23:49:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.18 Mbit/s

95th percentile per-packet one-way delay: 147.437 ms

Loss rate: 0.71%

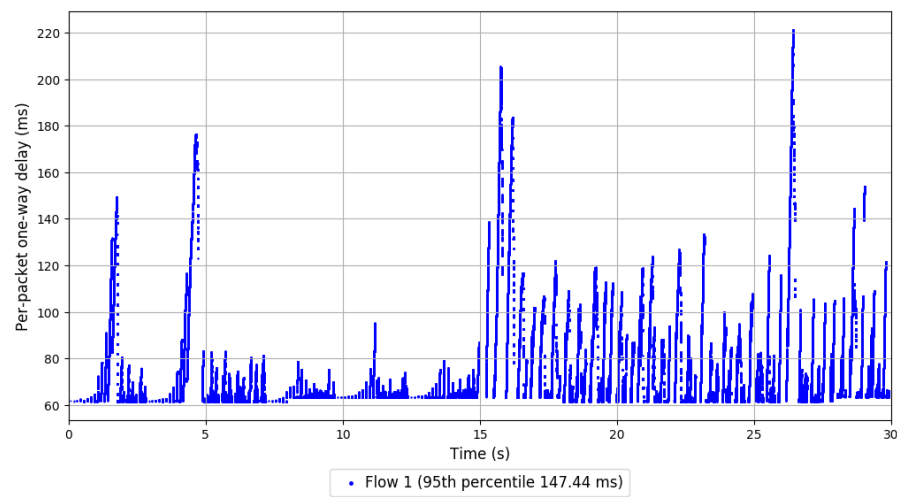
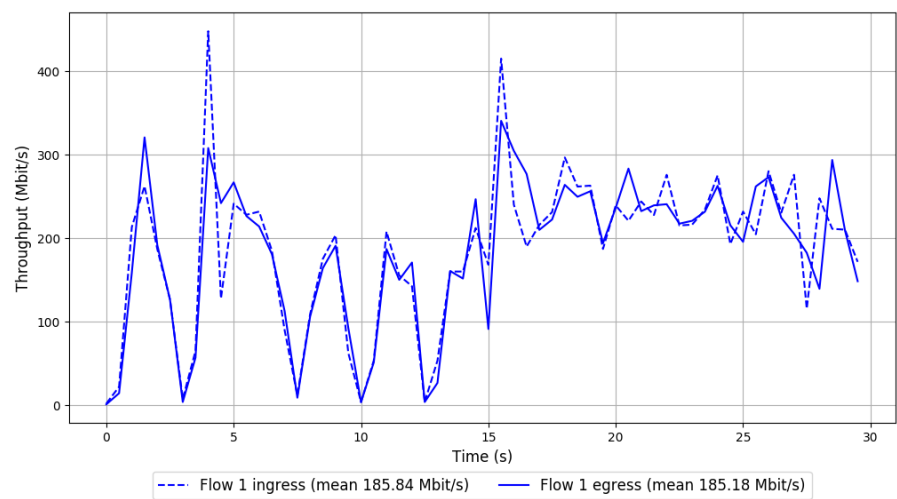
-- Flow 1:

Average throughput: 185.18 Mbit/s

95th percentile per-packet one-way delay: 147.437 ms

Loss rate: 0.71%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-24 19:36:53

End at: 2018-04-24 19:37:23

Below is generated by plot.py at 2018-04-24 23:49:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.31 Mbit/s

95th percentile per-packet one-way delay: 98.204 ms

Loss rate: 0.56%

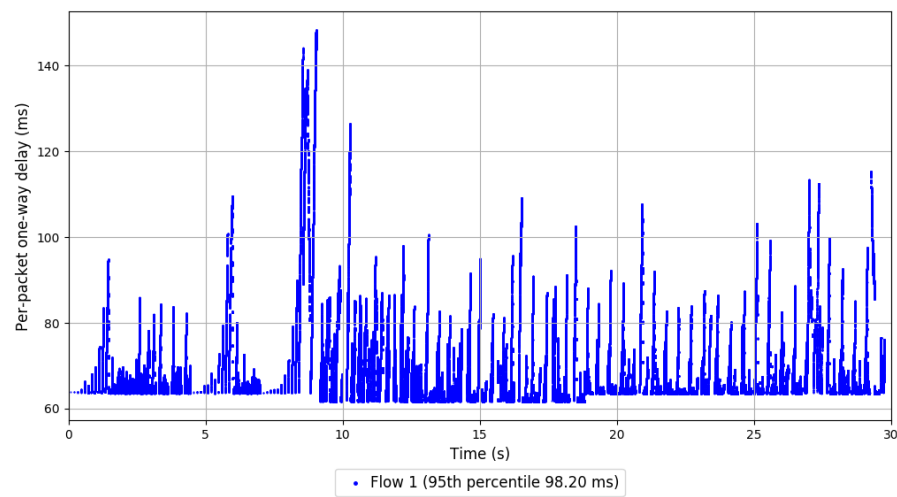
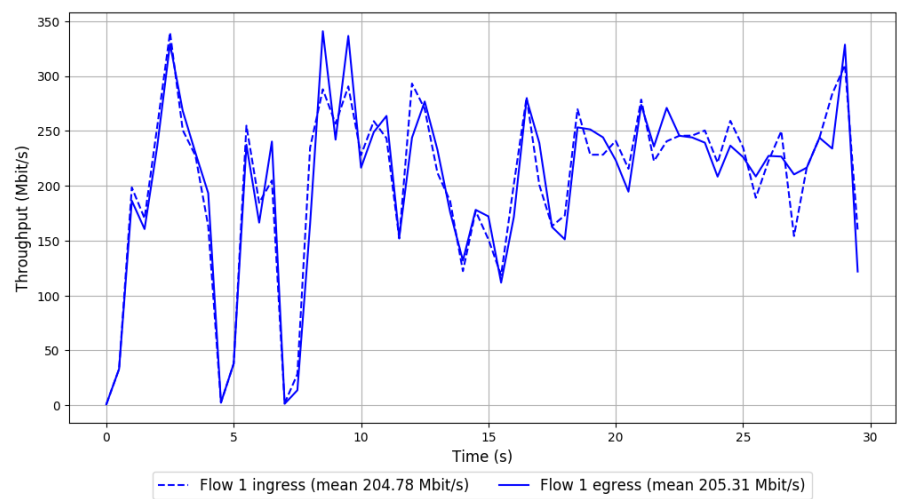
-- Flow 1:

Average throughput: 205.31 Mbit/s

95th percentile per-packet one-way delay: 98.204 ms

Loss rate: 0.56%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-24 19:50:15

End at: 2018-04-24 19:50:45

Below is generated by plot.py at 2018-04-24 23:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.28 Mbit/s

95th percentile per-packet one-way delay: 88.766 ms

Loss rate: 0.71%

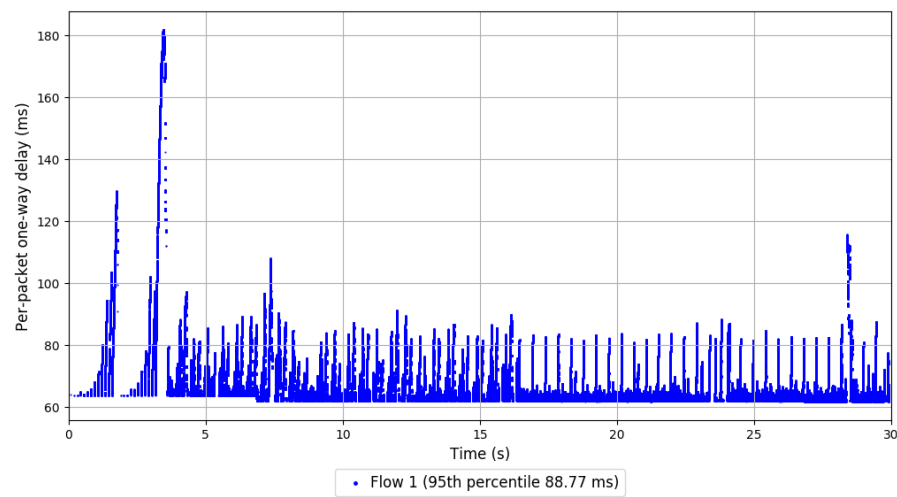
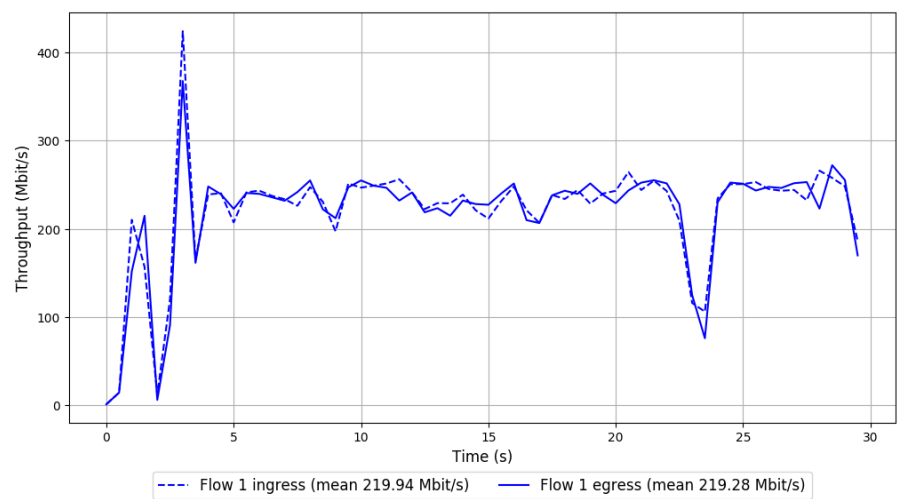
-- Flow 1:

Average throughput: 219.28 Mbit/s

95th percentile per-packet one-way delay: 88.766 ms

Loss rate: 0.71%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-24 20:03:33

End at: 2018-04-24 20:04:03

Below is generated by plot.py at 2018-04-24 23:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.64 Mbit/s

95th percentile per-packet one-way delay: 124.069 ms

Loss rate: 1.17%

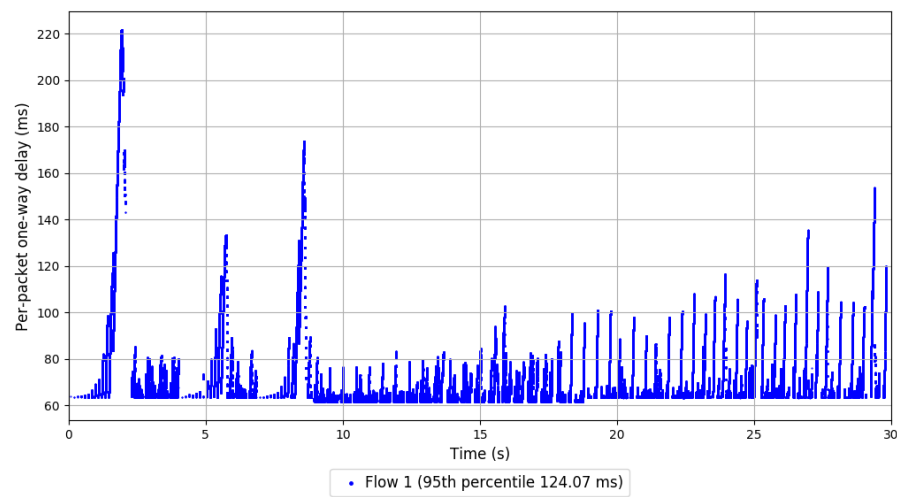
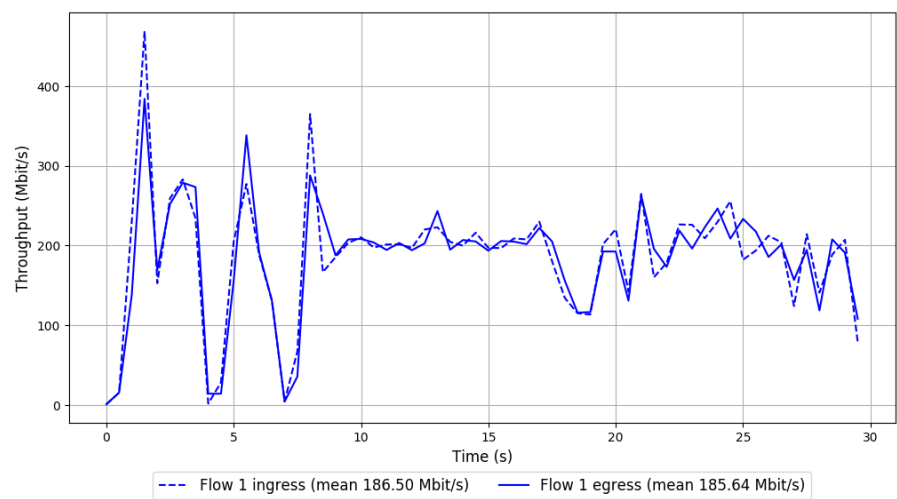
-- Flow 1:

Average throughput: 185.64 Mbit/s

95th percentile per-packet one-way delay: 124.069 ms

Loss rate: 1.17%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-24 20:17:00

End at: 2018-04-24 20:17:30

Below is generated by plot.py at 2018-04-24 23:50:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.08 Mbit/s

95th percentile per-packet one-way delay: 114.905 ms

Loss rate: 0.35%

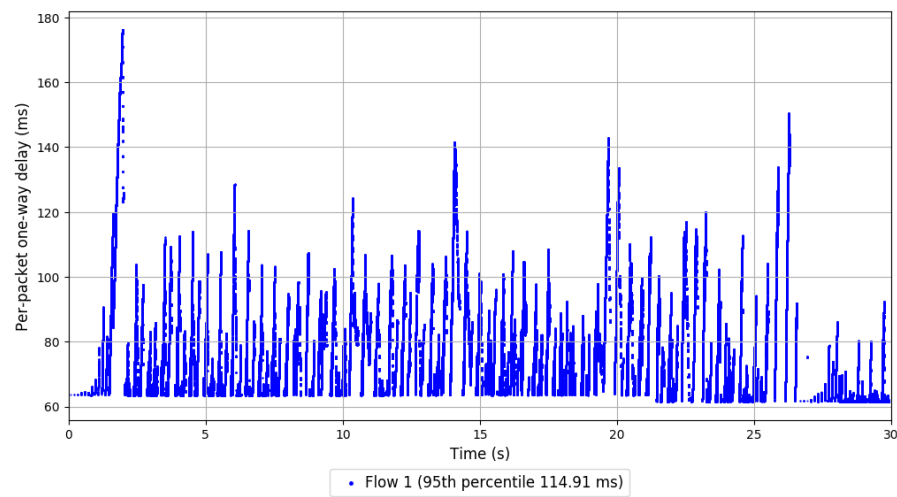
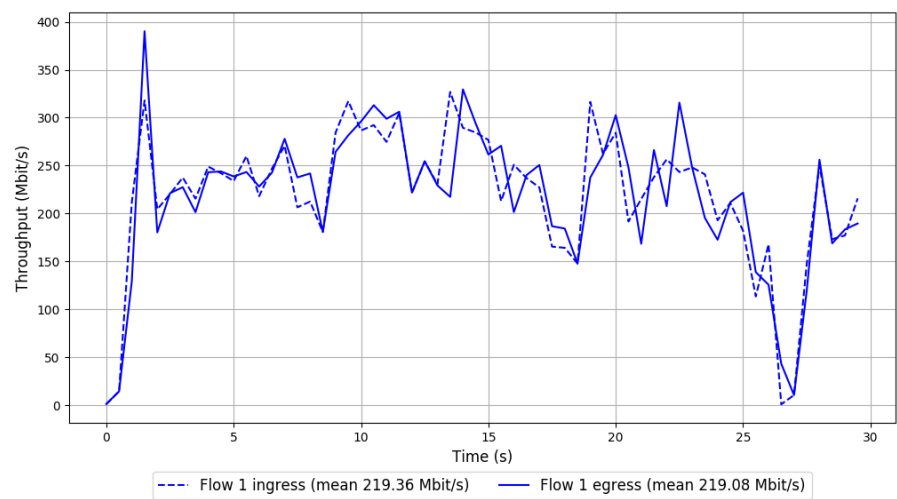
-- Flow 1:

Average throughput: 219.08 Mbit/s

95th percentile per-packet one-way delay: 114.905 ms

Loss rate: 0.35%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-24 20:30:39

End at: 2018-04-24 20:31:09

Below is generated by plot.py at 2018-04-24 23:51:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.34 Mbit/s

95th percentile per-packet one-way delay: 110.775 ms

Loss rate: 0.92%

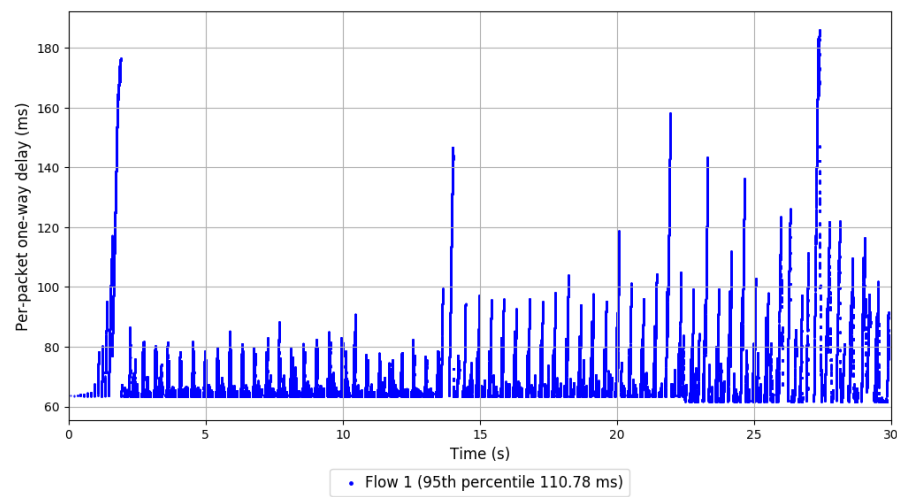
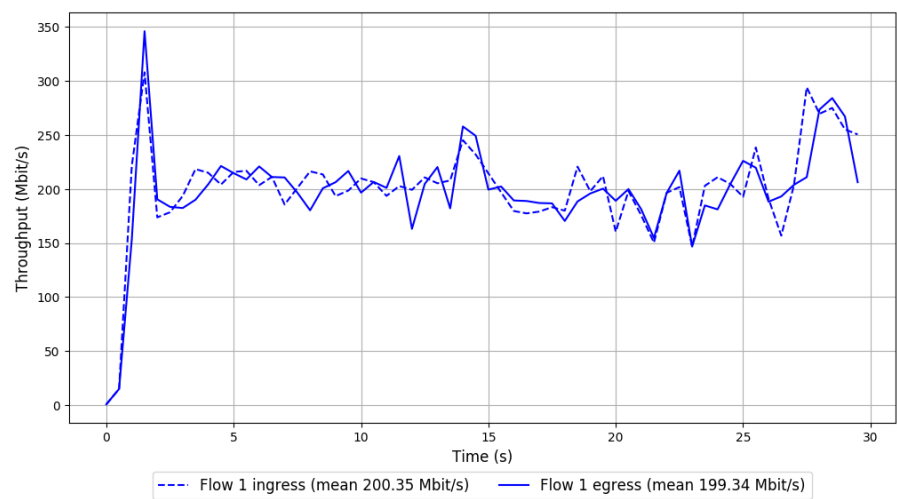
-- Flow 1:

Average throughput: 199.34 Mbit/s

95th percentile per-packet one-way delay: 110.775 ms

Loss rate: 0.92%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-24 20:44:15

End at: 2018-04-24 20:44:45

Below is generated by plot.py at 2018-04-24 23:52:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.11 Mbit/s

95th percentile per-packet one-way delay: 158.089 ms

Loss rate: 0.84%

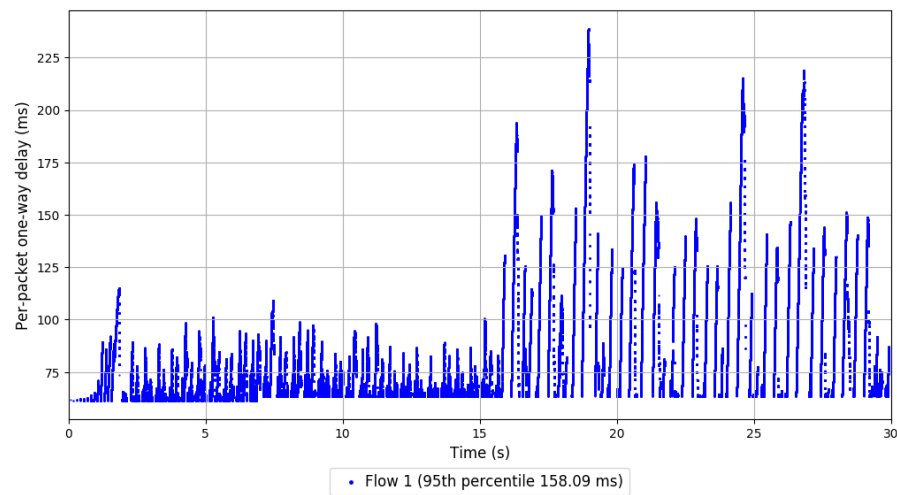
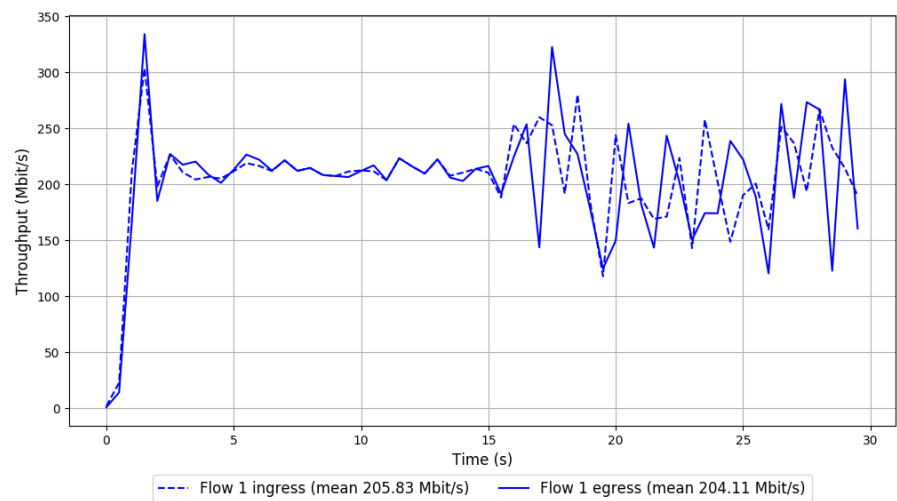
-- Flow 1:

Average throughput: 204.11 Mbit/s

95th percentile per-packet one-way delay: 158.089 ms

Loss rate: 0.84%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-24 18:42:36

End at: 2018-04-24 18:43:06

Below is generated by plot.py at 2018-04-24 23:52:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 63.735 ms

Loss rate: 0.37%

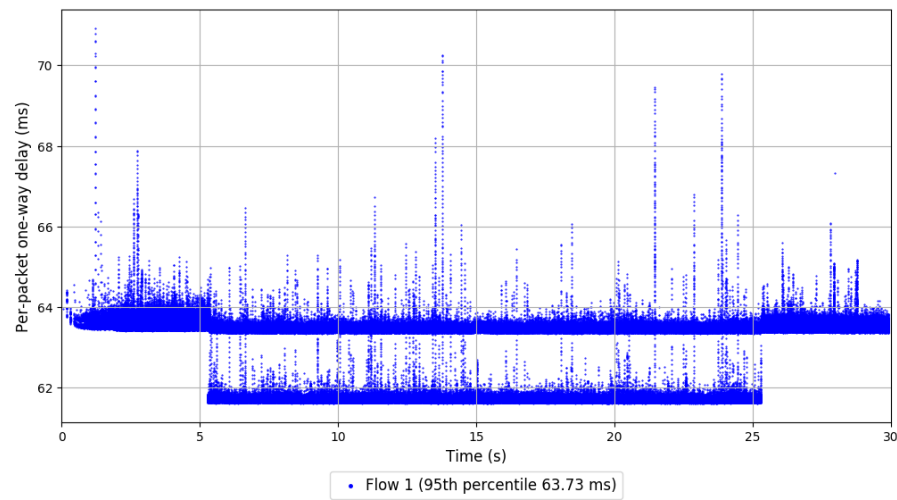
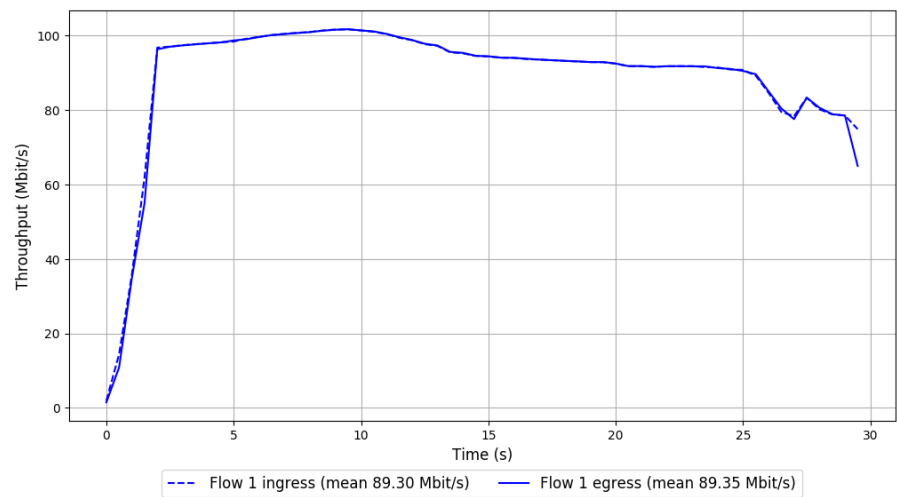
-- Flow 1:

Average throughput: 89.35 Mbit/s

95th percentile per-packet one-way delay: 63.735 ms

Loss rate: 0.37%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-24 18:55:53

End at: 2018-04-24 18:56:23

Below is generated by plot.py at 2018-04-24 23:52:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.28%

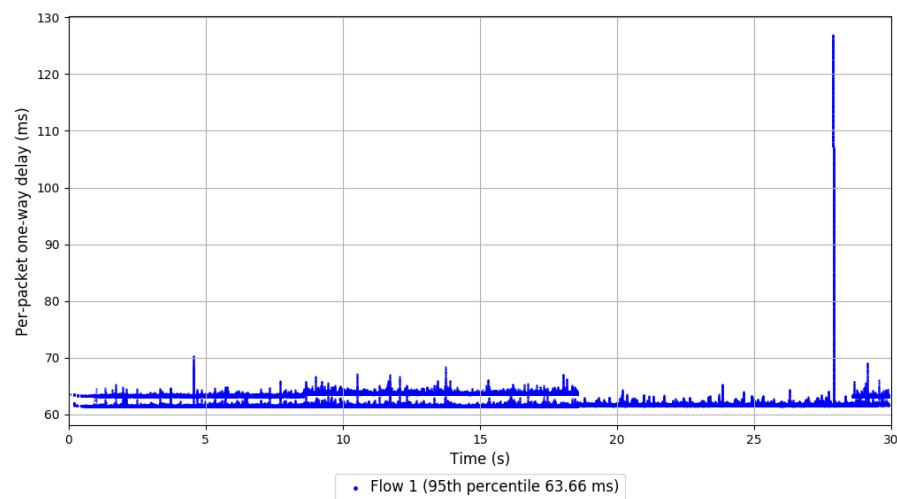
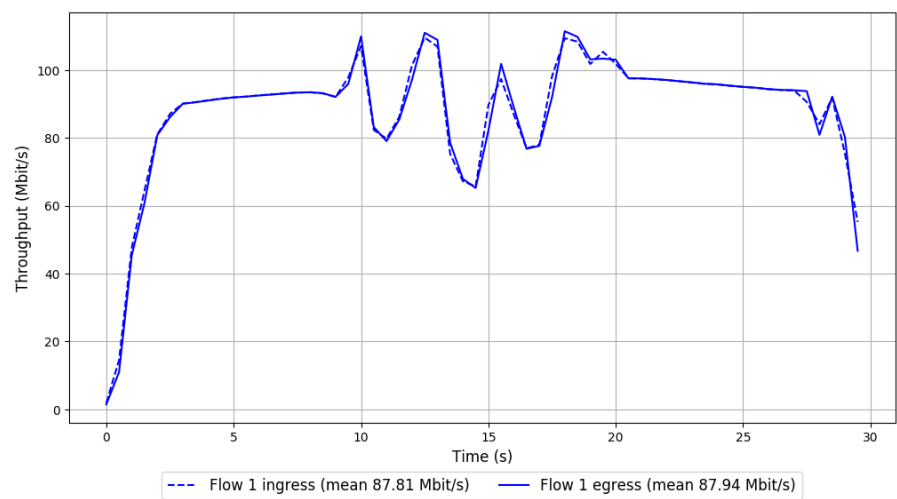
-- Flow 1:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 63.659 ms

Loss rate: 0.28%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-24 19:09:22

End at: 2018-04-24 19:09:52

Below is generated by plot.py at 2018-04-24 23:52:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.07 Mbit/s

95th percentile per-packet one-way delay: 63.501 ms

Loss rate: 0.44%

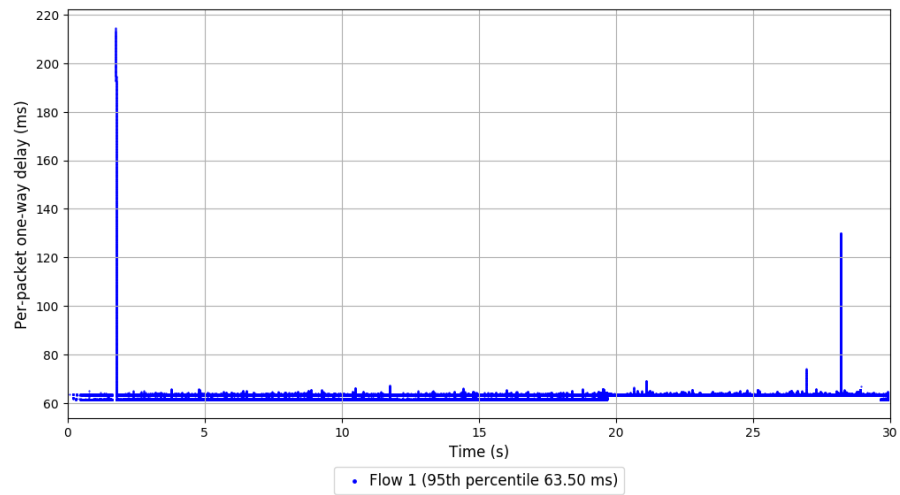
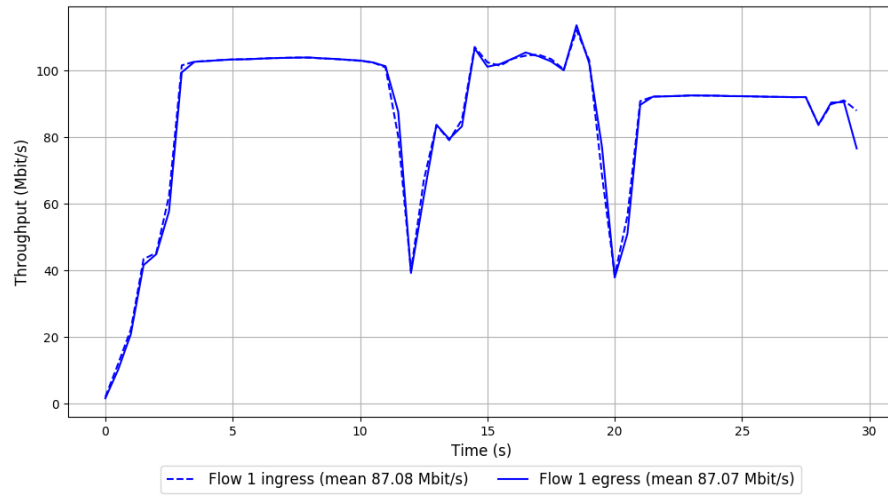
-- Flow 1:

Average throughput: 87.07 Mbit/s

95th percentile per-packet one-way delay: 63.501 ms

Loss rate: 0.44%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-24 19:22:38

End at: 2018-04-24 19:23:08

Below is generated by plot.py at 2018-04-24 23:52:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.05 Mbit/s

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

Loss rate: 0.43%

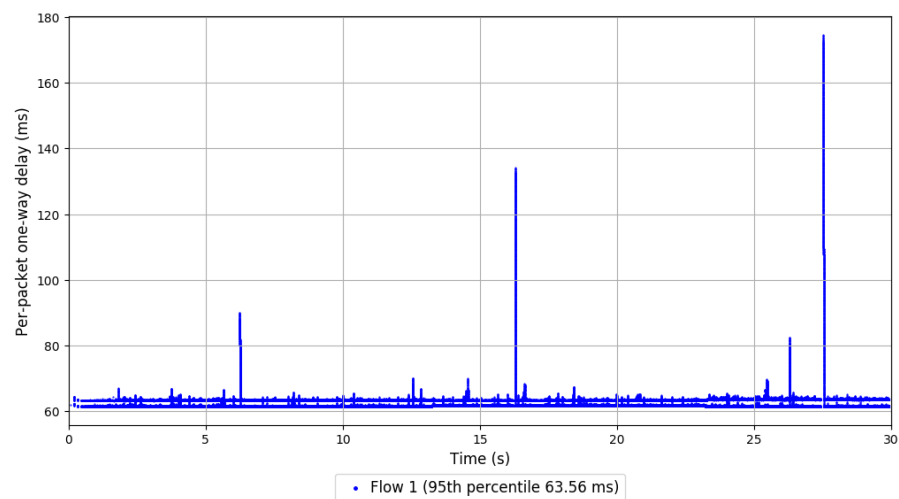
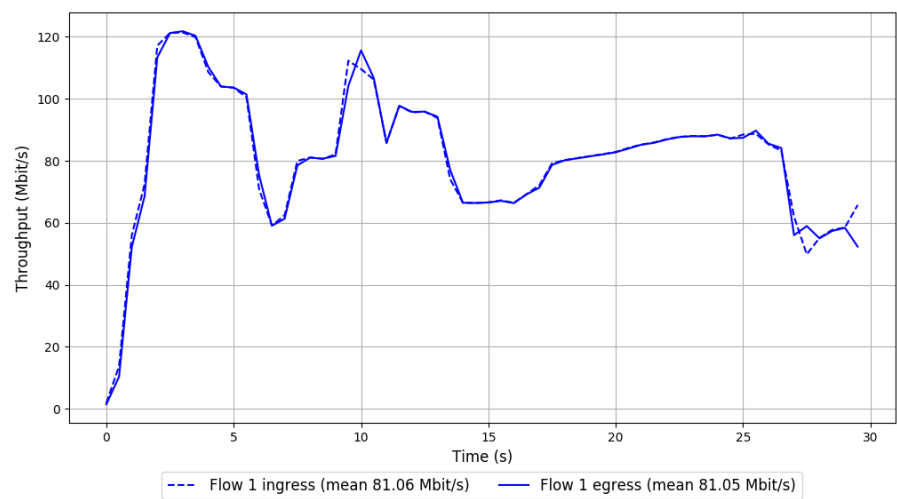
-- Flow 1:

Average throughput: 81.05 Mbit/s

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

Loss rate: 0.43%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-24 19:36:08

End at: 2018-04-24 19:36:38

Below is generated by plot.py at 2018-04-24 23:52:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.57 Mbit/s

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

Loss rate: 0.42%

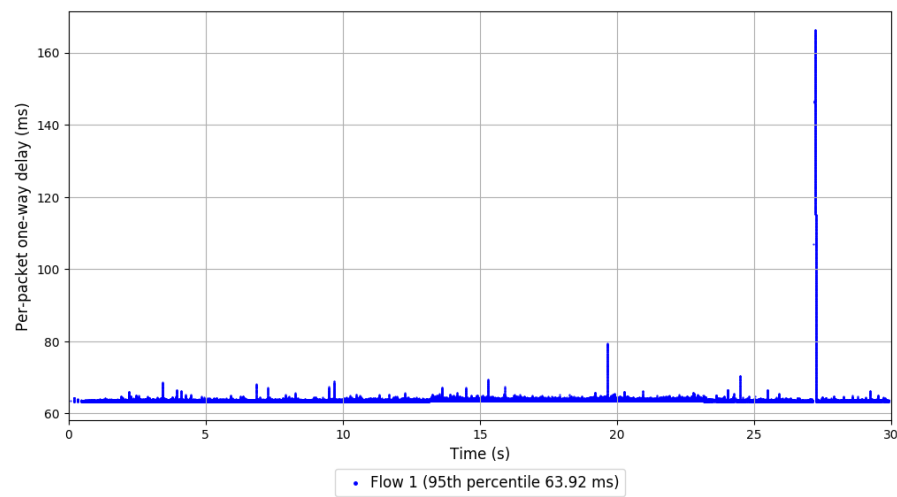
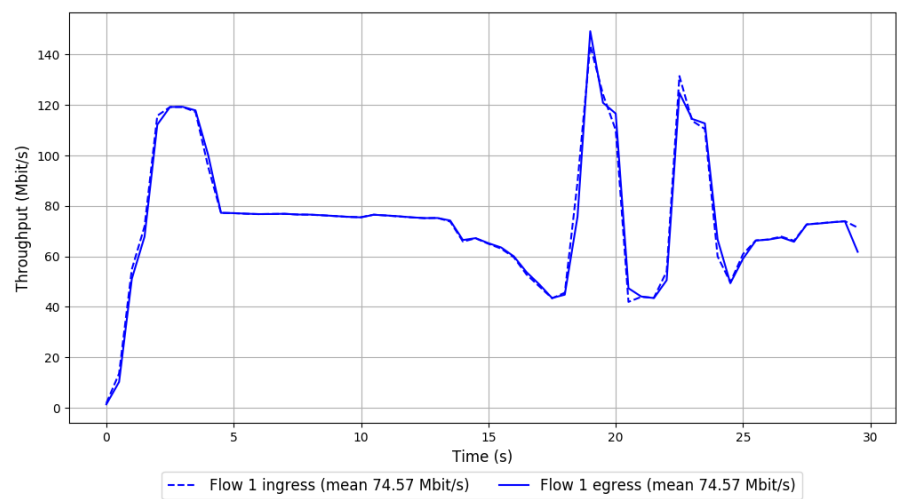
-- Flow 1:

Average throughput: 74.57 Mbit/s

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

Loss rate: 0.42%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-24 19:49:29

End at: 2018-04-24 19:49:59

Below is generated by plot.py at 2018-04-24 23:53:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.07 Mbit/s

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

Loss rate: 0.23%

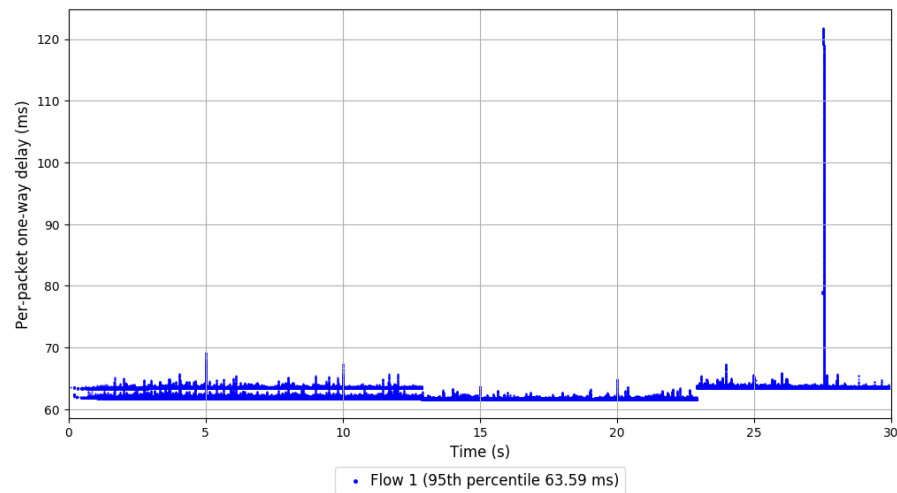
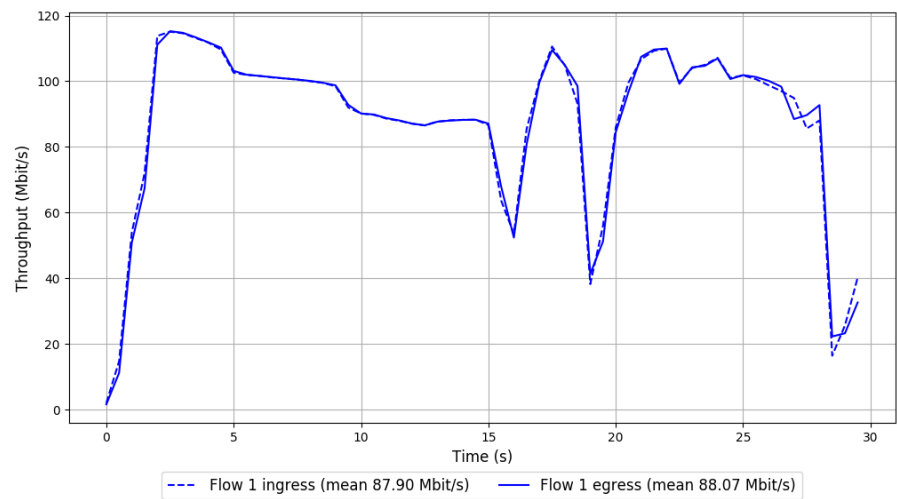
-- Flow 1:

Average throughput: 88.07 Mbit/s

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

Loss rate: 0.23%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-24 20:02:49

End at: 2018-04-24 20:03:19

Below is generated by plot.py at 2018-04-24 23:53:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.03 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 0.05%

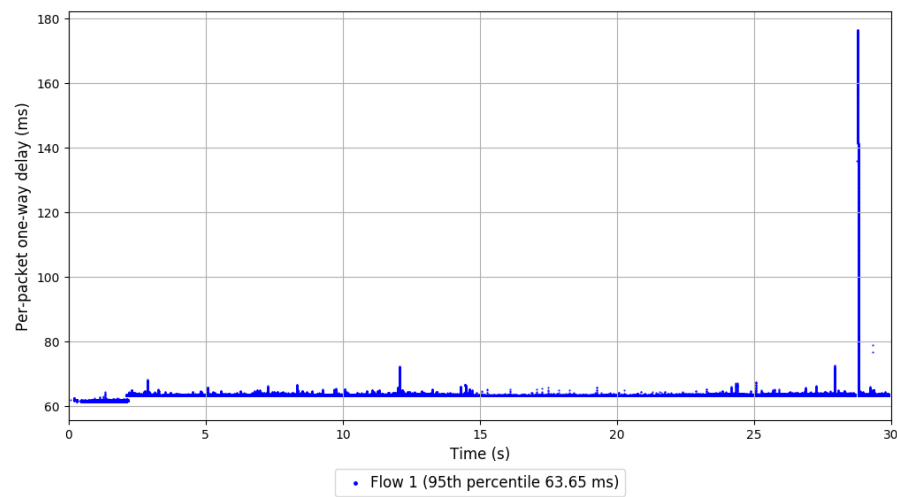
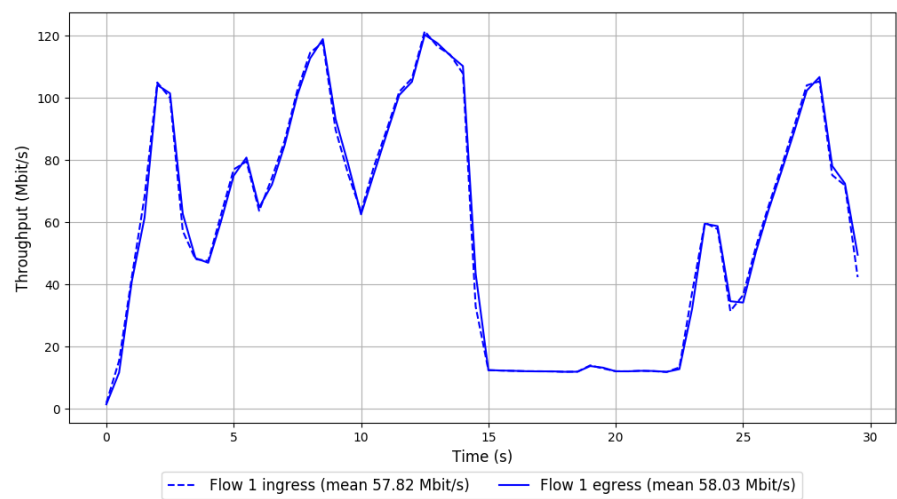
-- Flow 1:

Average throughput: 58.03 Mbit/s

95th percentile per-packet one-way delay: 63.650 ms

Loss rate: 0.05%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-24 20:16:14

End at: 2018-04-24 20:16:44

Below is generated by plot.py at 2018-04-24 23:54:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 63.596 ms

Loss rate: 0.39%

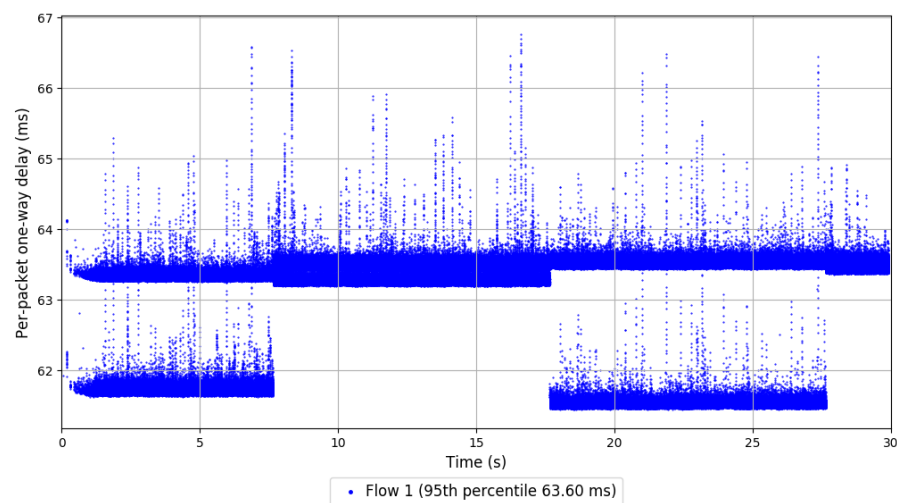
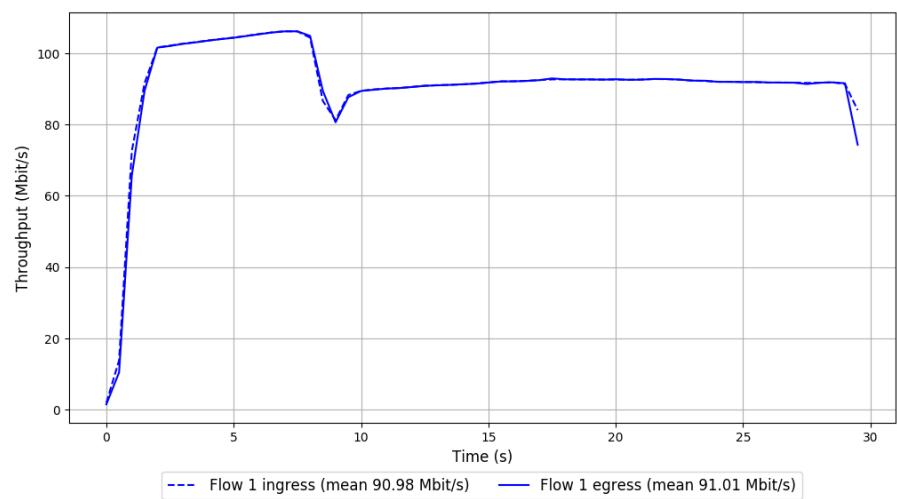
-- Flow 1:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 63.596 ms

Loss rate: 0.39%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-24 20:29:52

End at: 2018-04-24 20:30:22

Below is generated by plot.py at 2018-04-24 23:54:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 63.479 ms

Loss rate: 0.41%

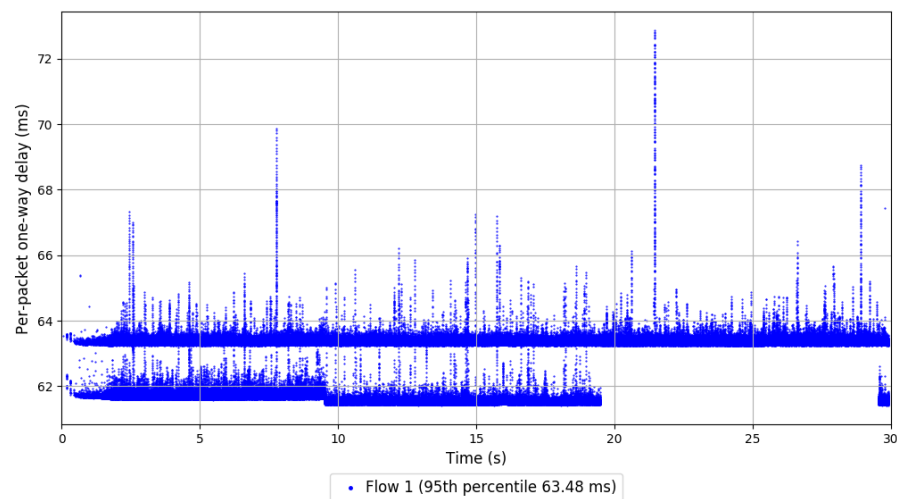
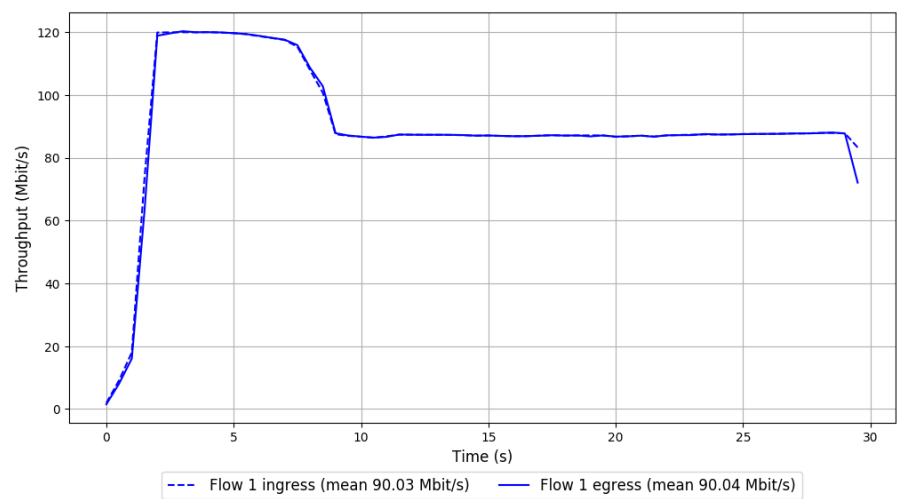
-- Flow 1:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 63.479 ms

Loss rate: 0.41%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-24 20:43:29

End at: 2018-04-24 20:43:59

Below is generated by plot.py at 2018-04-24 23:54:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.30 Mbit/s

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

Loss rate: 0.42%

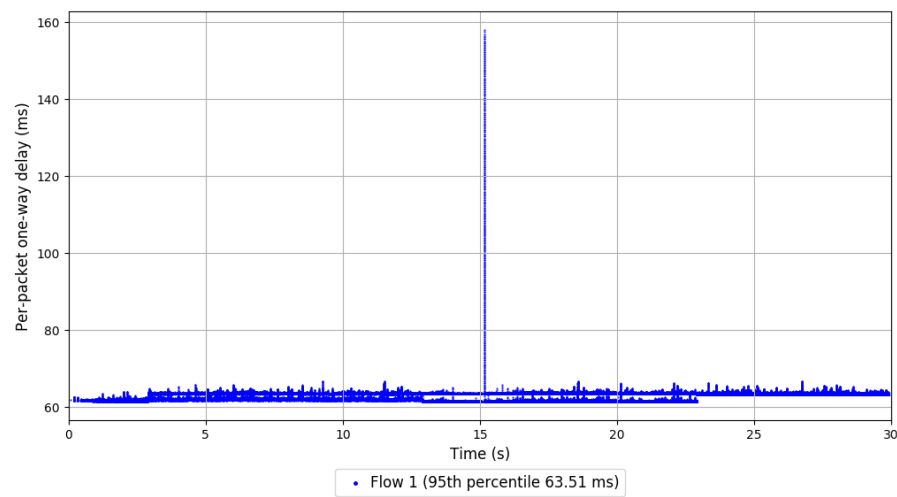
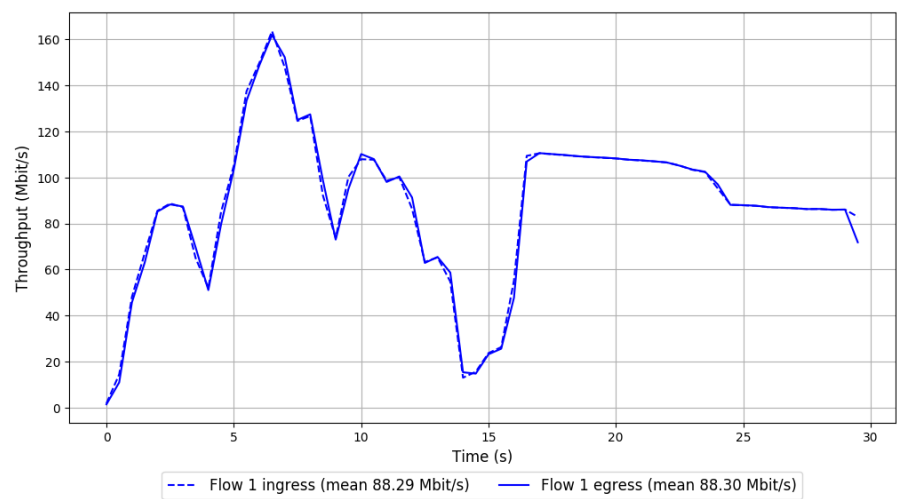
-- Flow 1:

Average throughput: 88.30 Mbit/s

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

Loss rate: 0.42%

Run 10: Report of Copa — Data Link

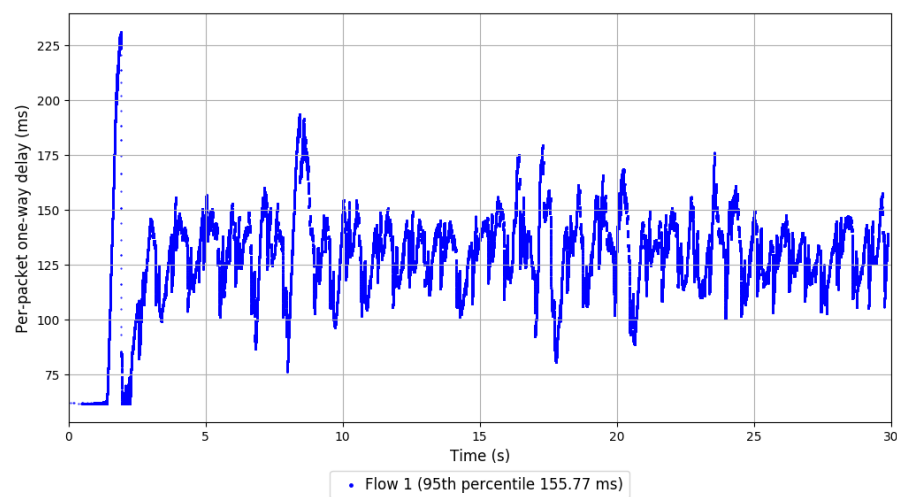
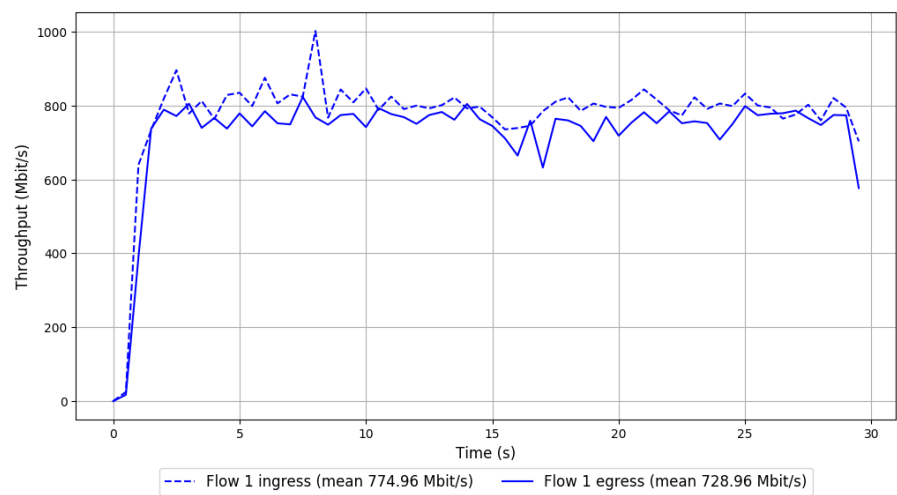


```
Run 1: Statistics of FillP

Start at: 2018-04-24 18:41:32
End at: 2018-04-24 18:42:02

# Below is generated by plot.py at 2018-04-25 00:07:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 728.96 Mbit/s
95th percentile per-packet one-way delay: 155.772 ms
Loss rate: 6.33%
-- Flow 1:
Average throughput: 728.96 Mbit/s
95th percentile per-packet one-way delay: 155.772 ms
Loss rate: 6.33%
```

Run 1: Report of FillP — Data Link

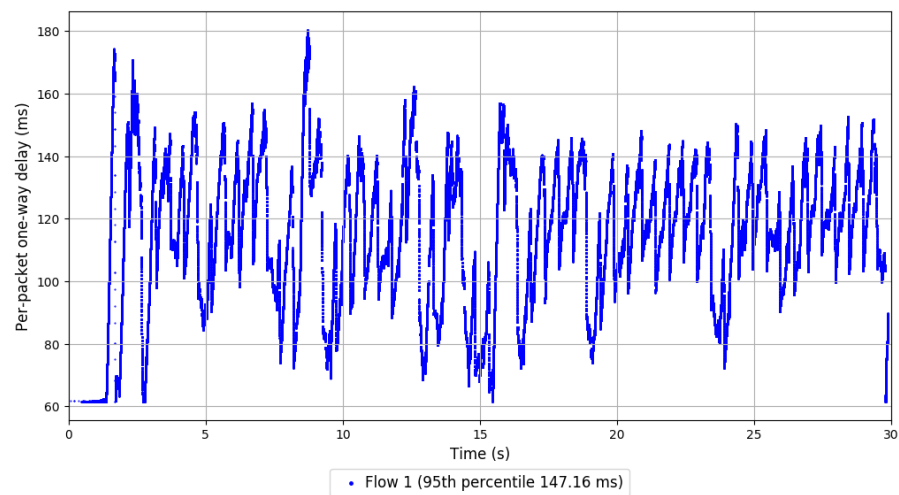
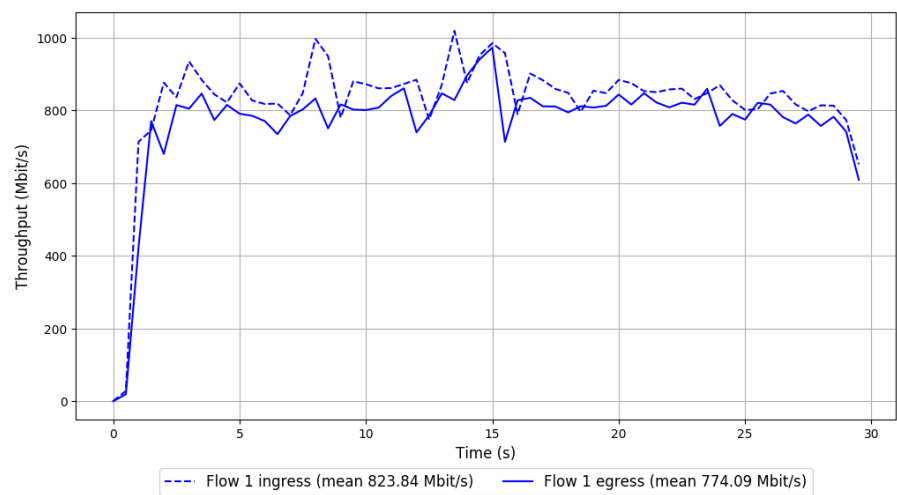


```
Run 2: Statistics of FillP

Start at: 2018-04-24 18:54:47
End at: 2018-04-24 18:55:17

# Below is generated by plot.py at 2018-04-25 00:07:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 774.09 Mbit/s
95th percentile per-packet one-way delay: 147.161 ms
Loss rate: 6.43%
-- Flow 1:
Average throughput: 774.09 Mbit/s
95th percentile per-packet one-way delay: 147.161 ms
Loss rate: 6.43%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-24 19:08:13

End at: 2018-04-24 19:08:43

Below is generated by plot.py at 2018-04-25 00:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 866.57 Mbit/s

95th percentile per-packet one-way delay: 142.192 ms

Loss rate: 4.05%

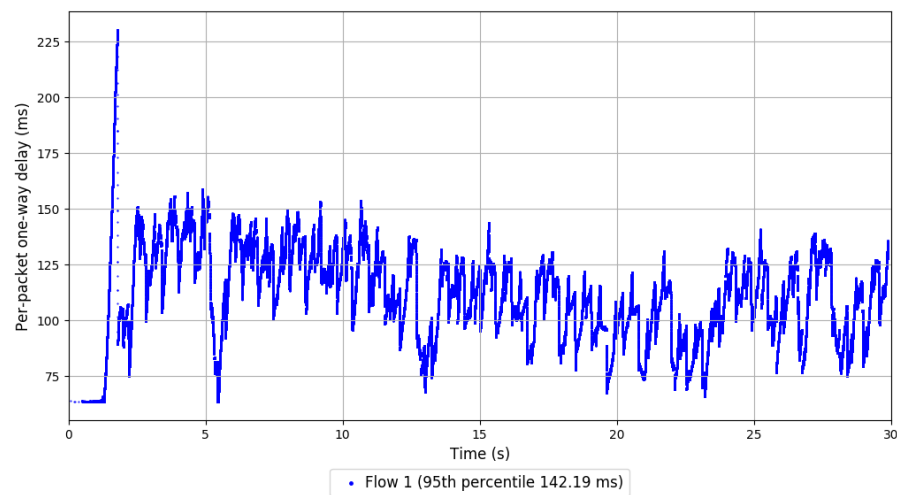
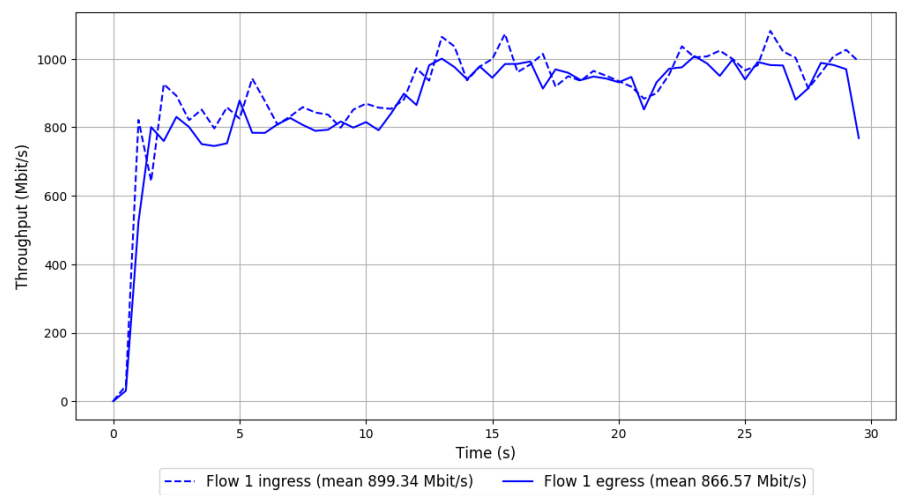
-- Flow 1:

Average throughput: 866.57 Mbit/s

95th percentile per-packet one-way delay: 142.192 ms

Loss rate: 4.05%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-24 19:21:28

End at: 2018-04-24 19:21:58

Below is generated by plot.py at 2018-04-25 00:09:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 843.48 Mbit/s

95th percentile per-packet one-way delay: 144.310 ms

Loss rate: 7.48%

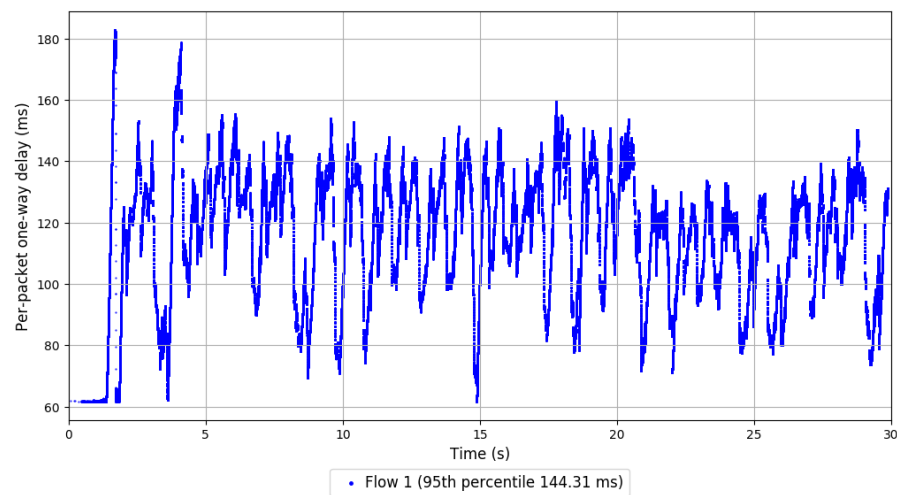
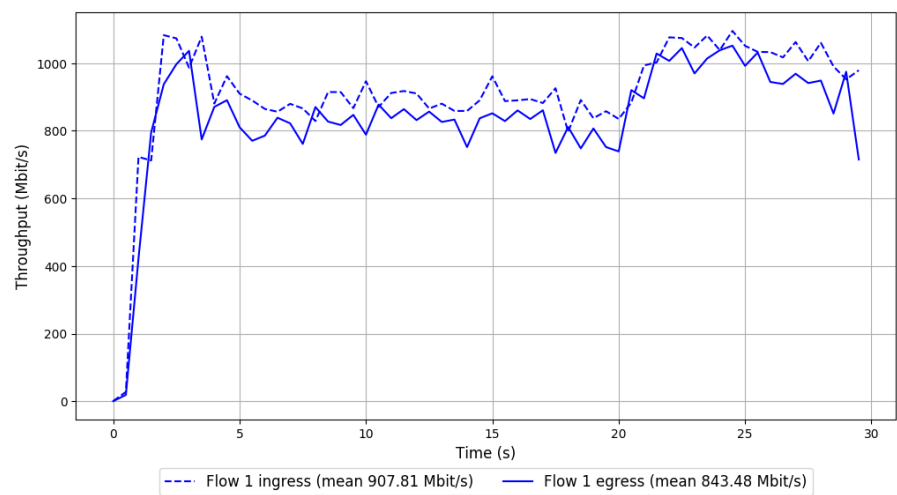
-- Flow 1:

Average throughput: 843.48 Mbit/s

95th percentile per-packet one-way delay: 144.310 ms

Loss rate: 7.48%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-24 19:35:02

End at: 2018-04-24 19:35:32

Below is generated by plot.py at 2018-04-25 00:09:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 770.99 Mbit/s

95th percentile per-packet one-way delay: 154.266 ms

Loss rate: 7.06%

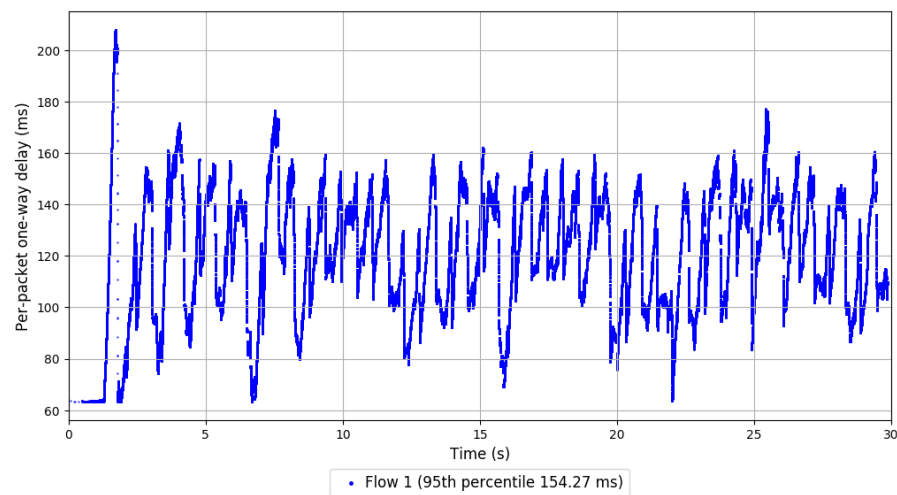
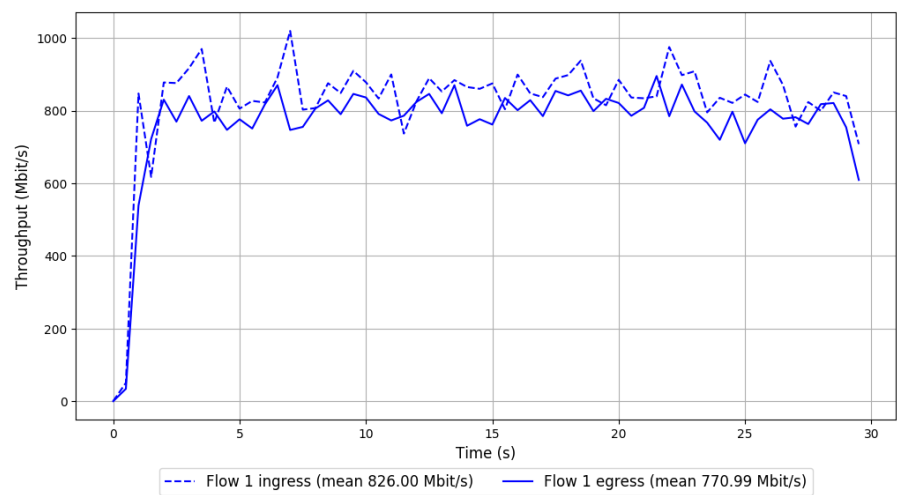
-- Flow 1:

Average throughput: 770.99 Mbit/s

95th percentile per-packet one-way delay: 154.266 ms

Loss rate: 7.06%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-24 19:48:22

End at: 2018-04-24 19:48:52

Below is generated by plot.py at 2018-04-25 00:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 788.11 Mbit/s

95th percentile per-packet one-way delay: 146.715 ms

Loss rate: 5.64%

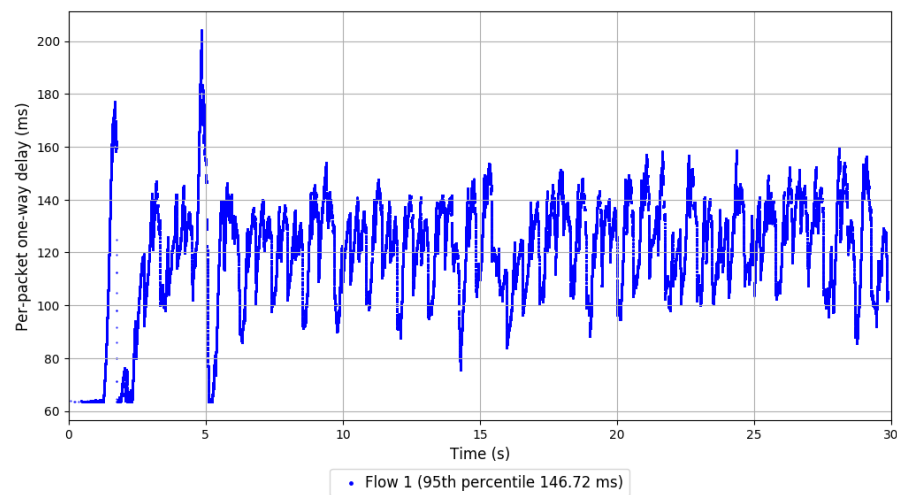
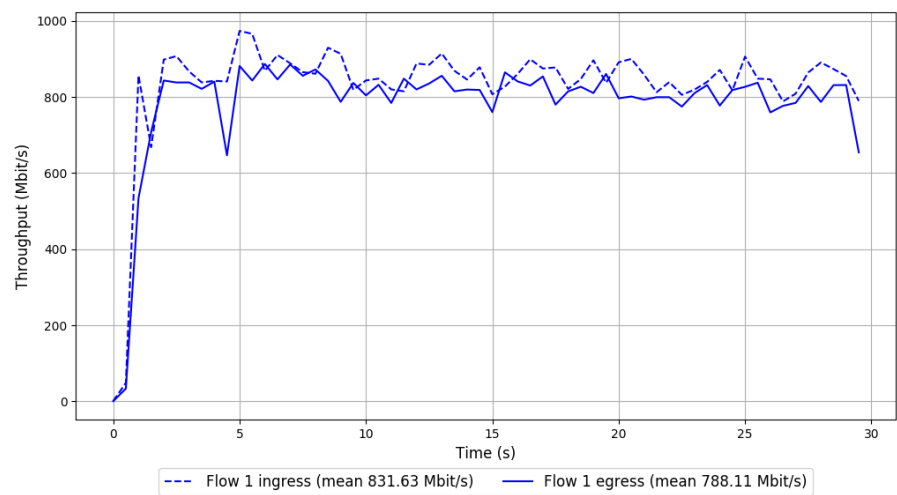
-- Flow 1:

Average throughput: 788.11 Mbit/s

95th percentile per-packet one-way delay: 146.715 ms

Loss rate: 5.64%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-24 20:01:43

End at: 2018-04-24 20:02:13

Below is generated by plot.py at 2018-04-25 00:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 760.60 Mbit/s

95th percentile per-packet one-way delay: 152.402 ms

Loss rate: 7.91%

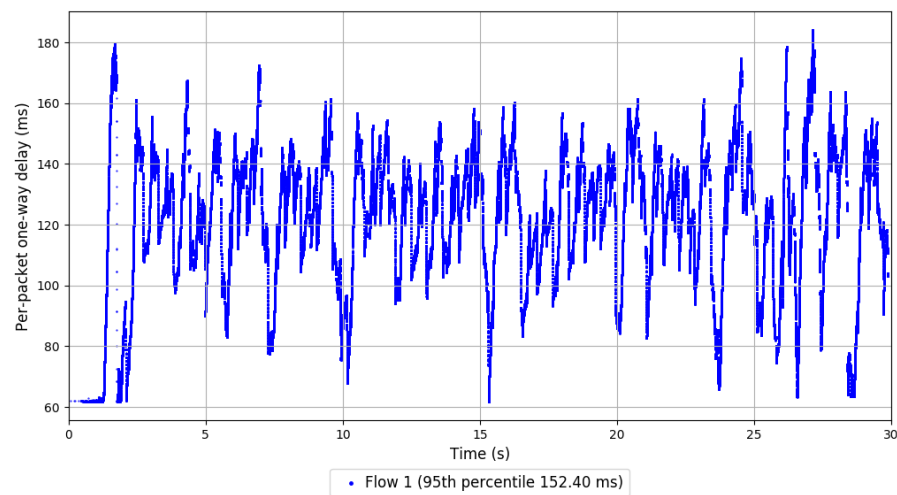
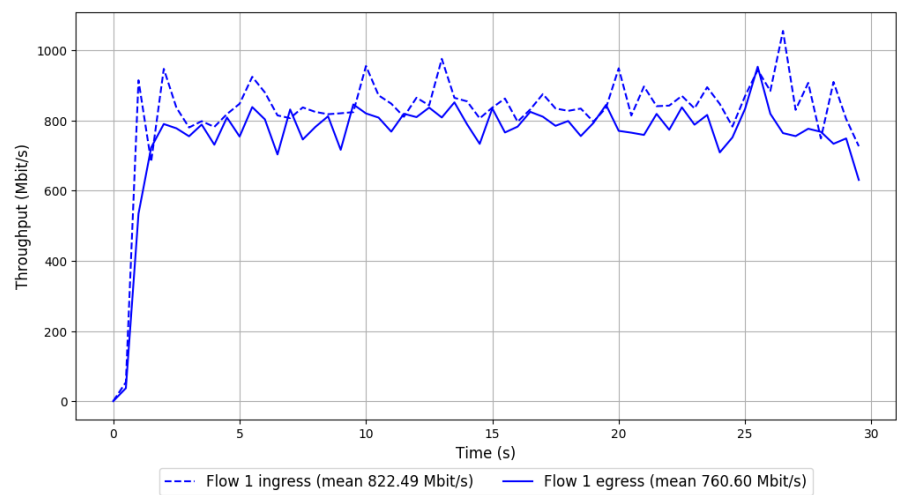
-- Flow 1:

Average throughput: 760.60 Mbit/s

95th percentile per-packet one-way delay: 152.402 ms

Loss rate: 7.91%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-24 20:15:05

End at: 2018-04-24 20:15:35

Below is generated by plot.py at 2018-04-25 00:09:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.99 Mbit/s

95th percentile per-packet one-way delay: 222.498 ms

Loss rate: 8.39%

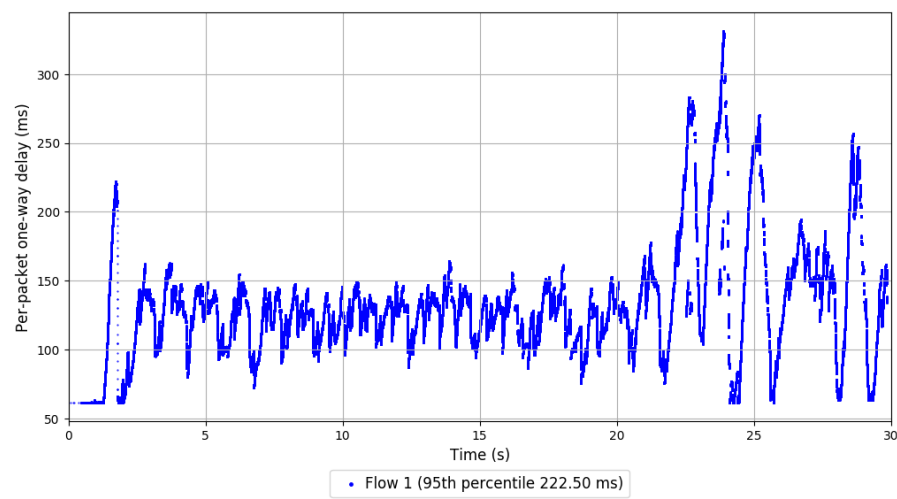
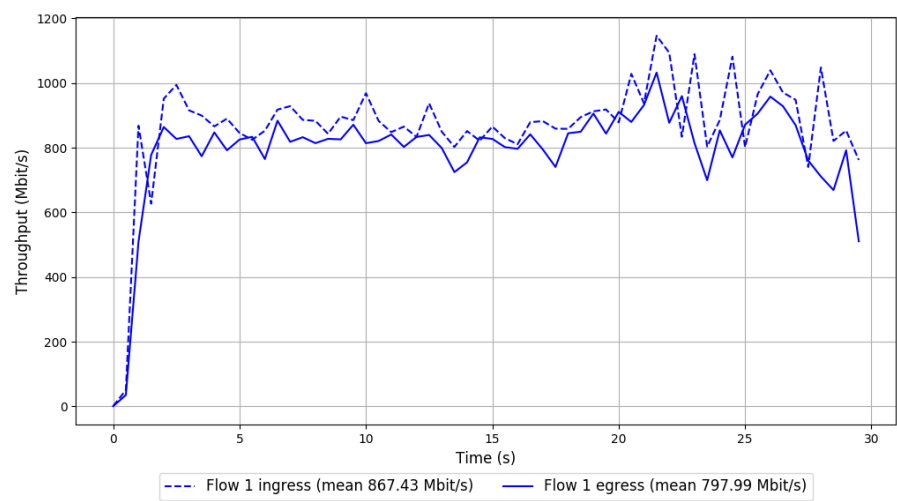
-- Flow 1:

Average throughput: 797.99 Mbit/s

95th percentile per-packet one-way delay: 222.498 ms

Loss rate: 8.39%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-24 20:28:39

End at: 2018-04-24 20:29:09

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 815.97 Mbit/s

95th percentile per-packet one-way delay: 151.068 ms

Loss rate: 7.73%

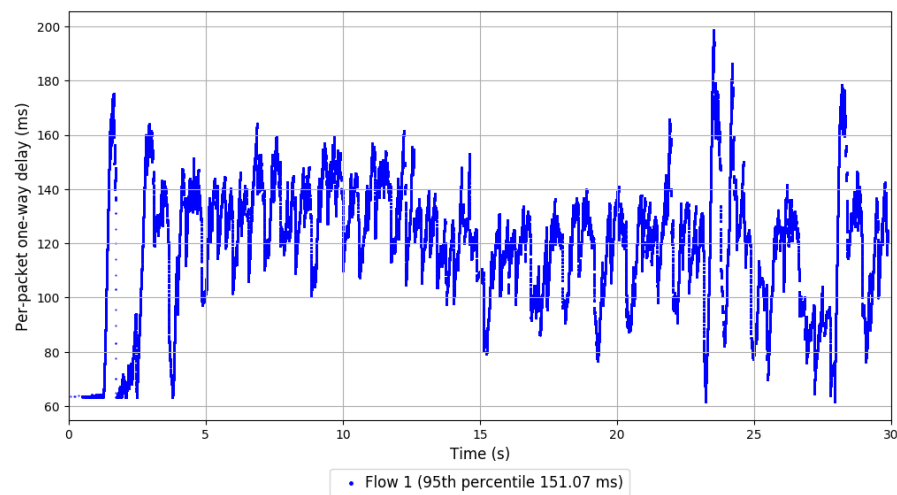
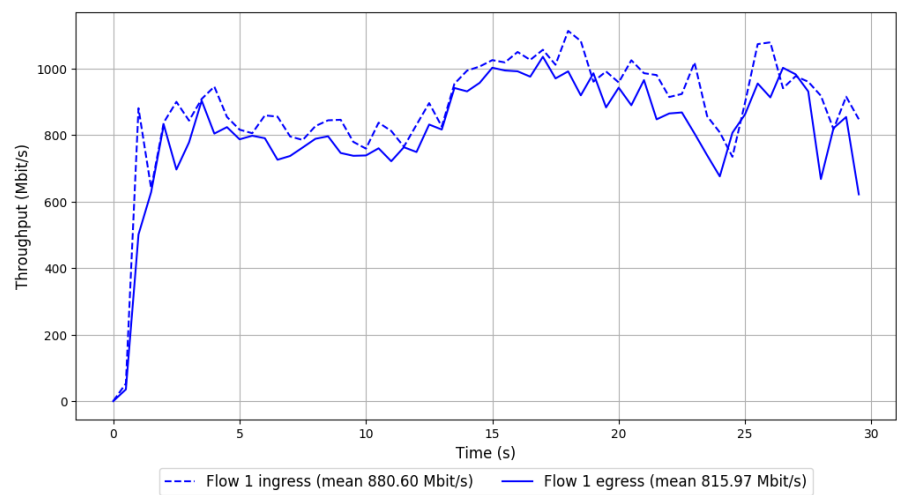
-- Flow 1:

Average throughput: 815.97 Mbit/s

95th percentile per-packet one-way delay: 151.068 ms

Loss rate: 7.73%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-24 20:42:23

End at: 2018-04-24 20:42:53

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 723.05 Mbit/s

95th percentile per-packet one-way delay: 166.227 ms

Loss rate: 10.36%

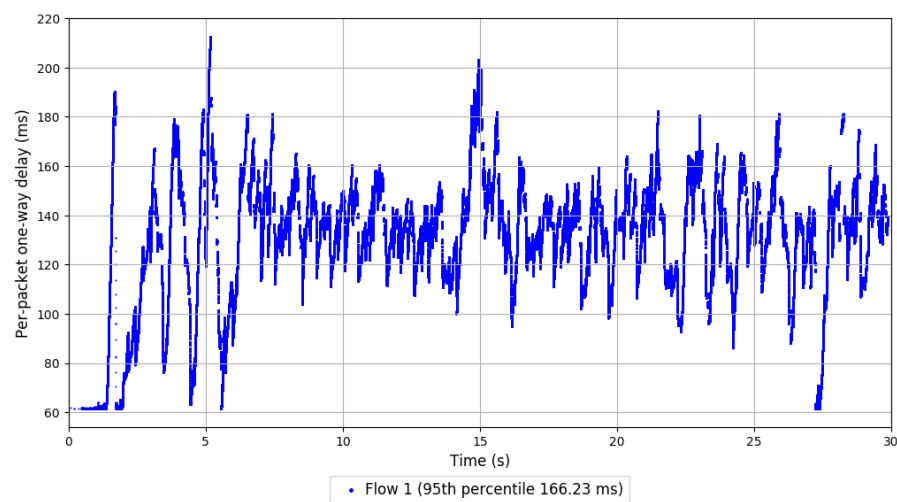
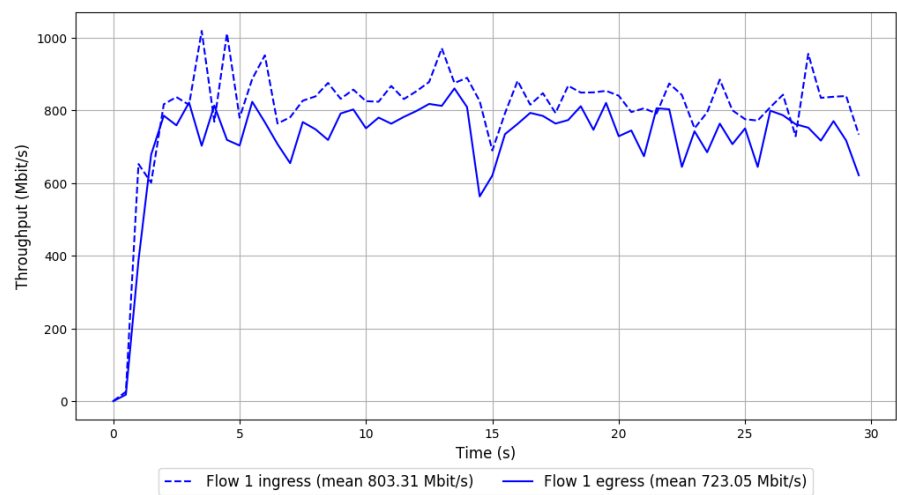
-- Flow 1:

Average throughput: 723.05 Mbit/s

95th percentile per-packet one-way delay: 166.227 ms

Loss rate: 10.36%

Run 10: Report of FillP — Data Link

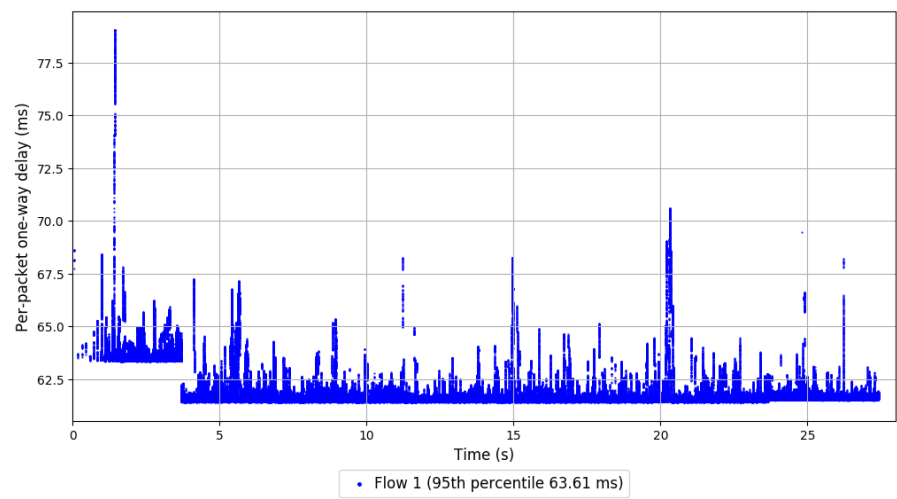
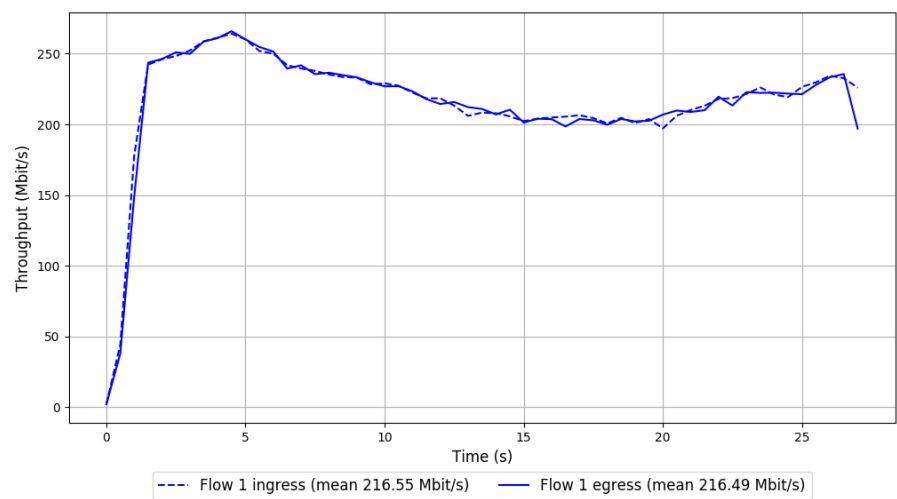


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 18:48:15
End at: 2018-04-24 18:48:45

# Below is generated by plot.py at 2018-04-25 00:22:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.49 Mbit/s
95th percentile per-packet one-way delay: 63.613 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 216.49 Mbit/s
95th percentile per-packet one-way delay: 63.613 ms
Loss rate: 0.50%
```

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

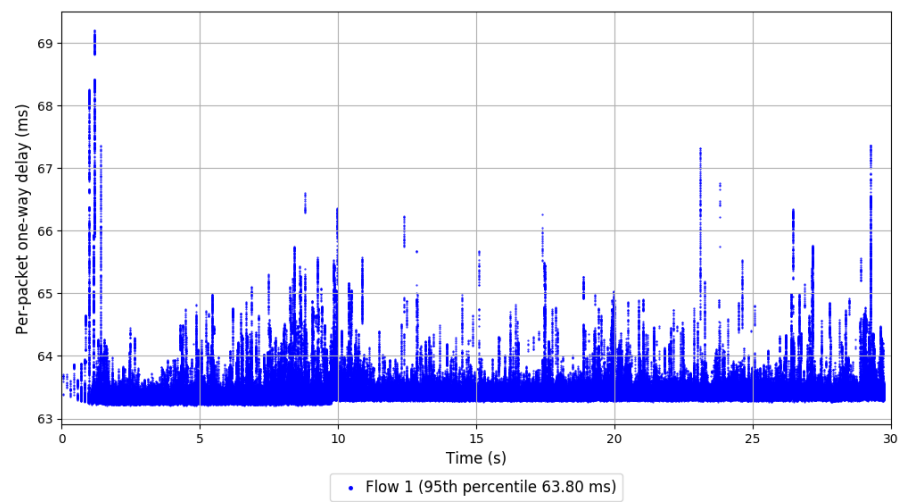
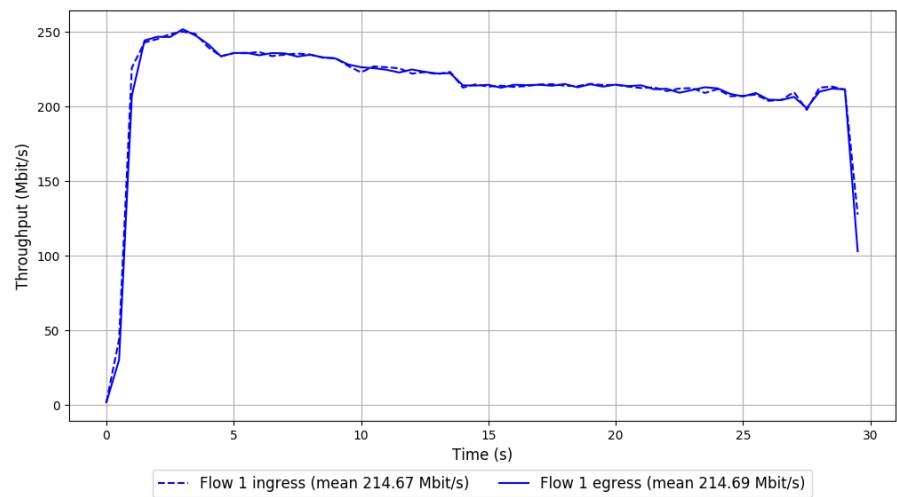


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 19:01:32
End at: 2018-04-24 19:02:02

# Below is generated by plot.py at 2018-04-25 00:22:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 214.69 Mbit/s
95th percentile per-packet one-way delay: 63.796 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 214.69 Mbit/s
95th percentile per-packet one-way delay: 63.796 ms
Loss rate: 0.42%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 19:15:01

End at: 2018-04-24 19:15:31

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.81 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.45%

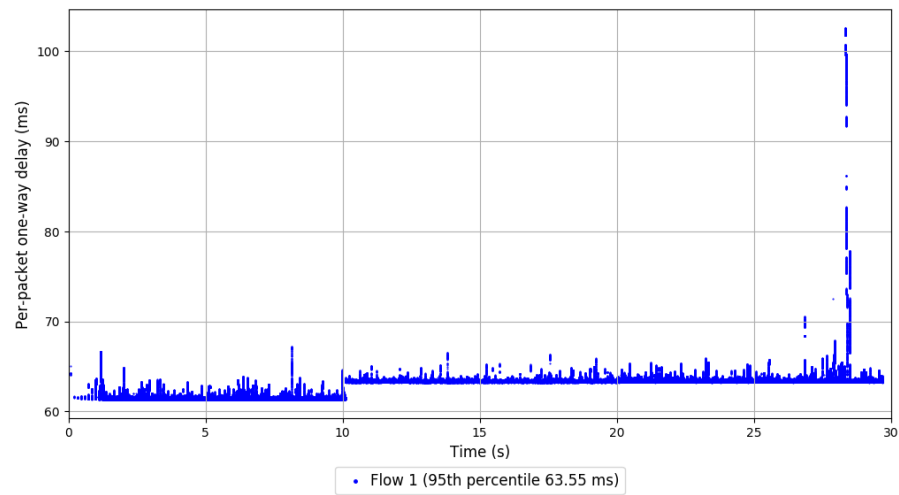
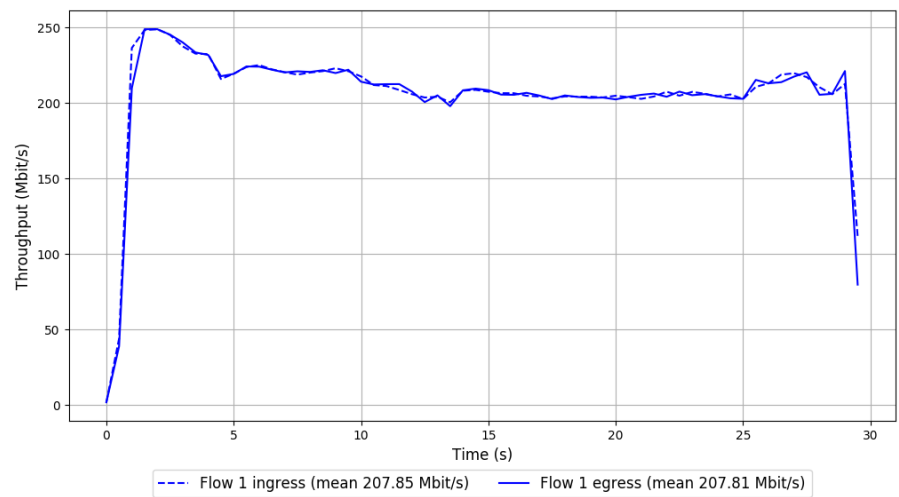
-- Flow 1:

Average throughput: 207.81 Mbit/s

95th percentile per-packet one-way delay: 63.545 ms

Loss rate: 0.45%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 19:28:19

End at: 2018-04-24 19:28:49

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.61 Mbit/s

95th percentile per-packet one-way delay: 63.805 ms

Loss rate: 0.44%

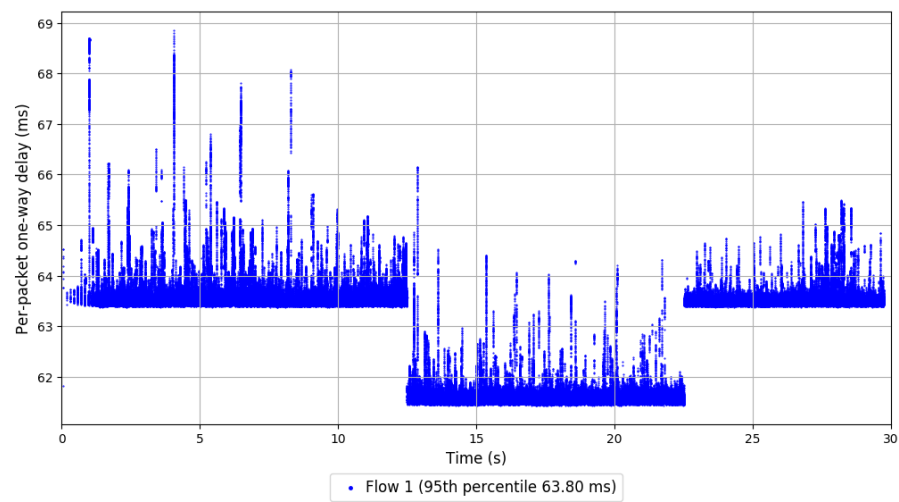
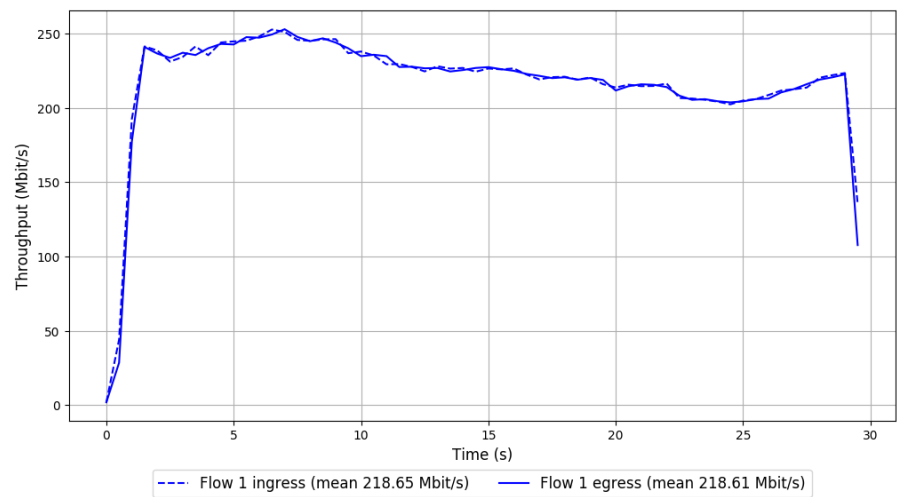
-- Flow 1:

Average throughput: 218.61 Mbit/s

95th percentile per-packet one-way delay: 63.805 ms

Loss rate: 0.44%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 19:41:43

End at: 2018-04-24 19:42:13

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.43 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 0.43%

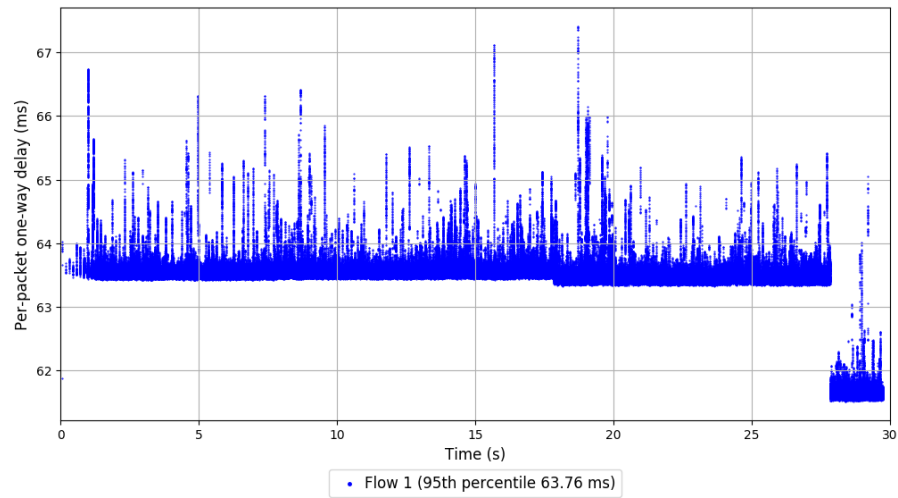
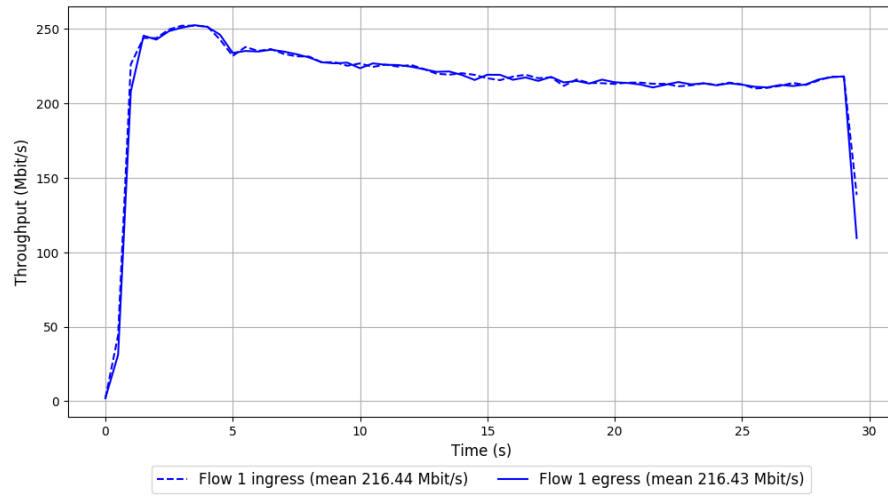
-- Flow 1:

Average throughput: 216.43 Mbit/s

95th percentile per-packet one-way delay: 63.762 ms

Loss rate: 0.43%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 19:55:05

End at: 2018-04-24 19:55:35

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.39 Mbit/s

95th percentile per-packet one-way delay: 63.611 ms

Loss rate: 0.38%

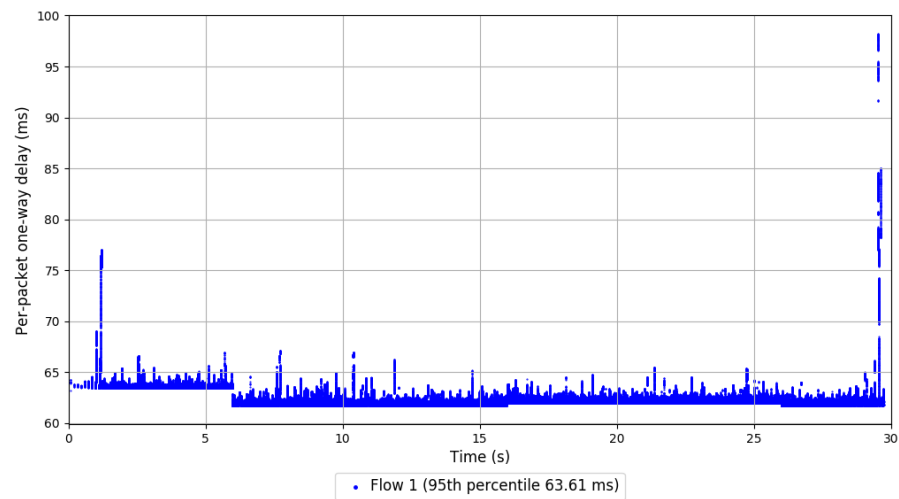
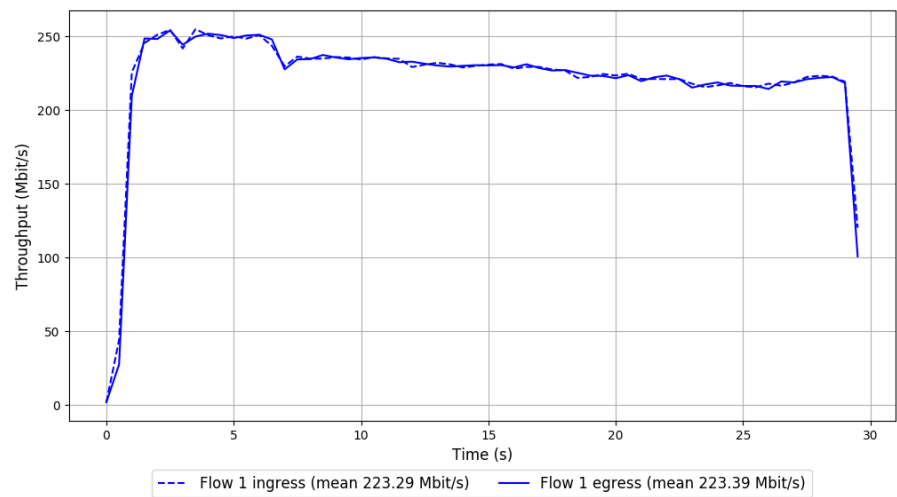
-- Flow 1:

Average throughput: 223.39 Mbit/s

95th percentile per-packet one-way delay: 63.611 ms

Loss rate: 0.38%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 20:08:25

End at: 2018-04-24 20:08:55

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.50 Mbit/s

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

Loss rate: 0.45%

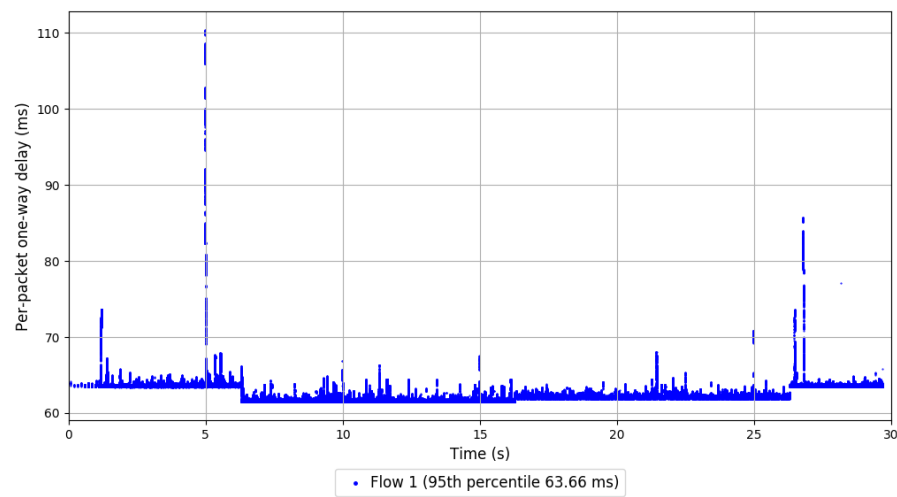
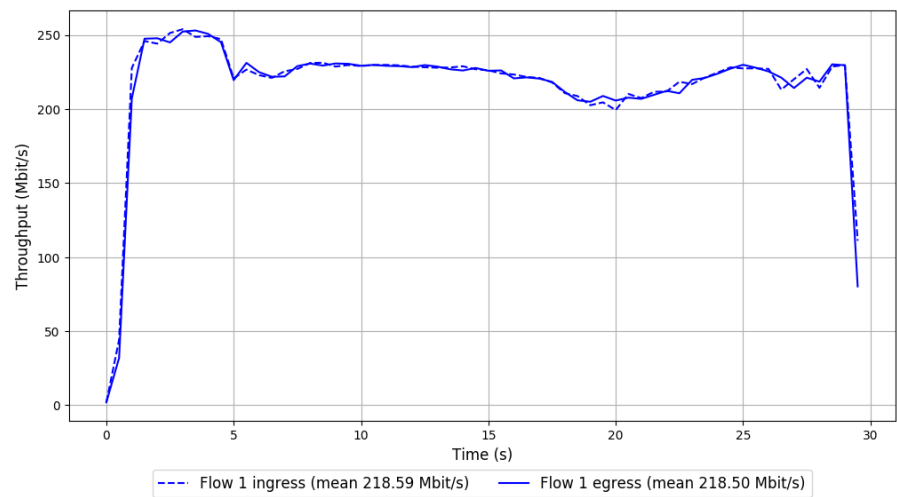
-- Flow 1:

Average throughput: 218.50 Mbit/s

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

Loss rate: 0.45%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 20:21:54

End at: 2018-04-24 20:22:24

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.21 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 0.40%

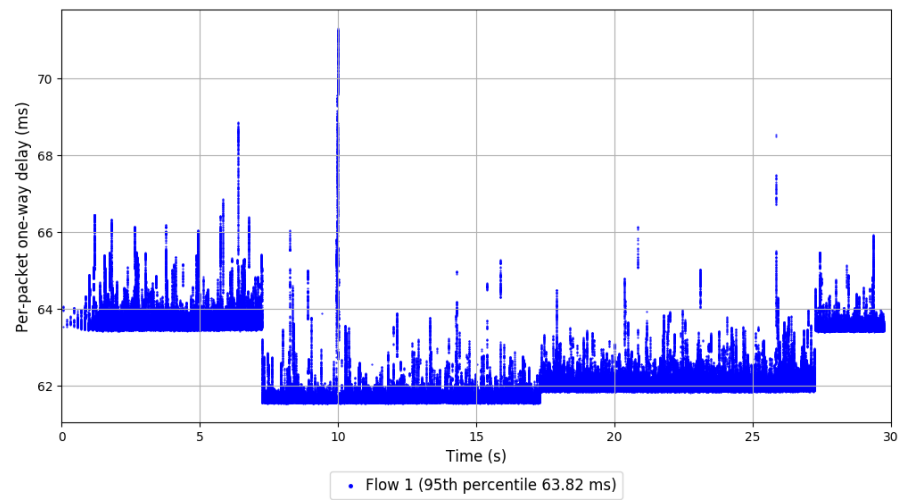
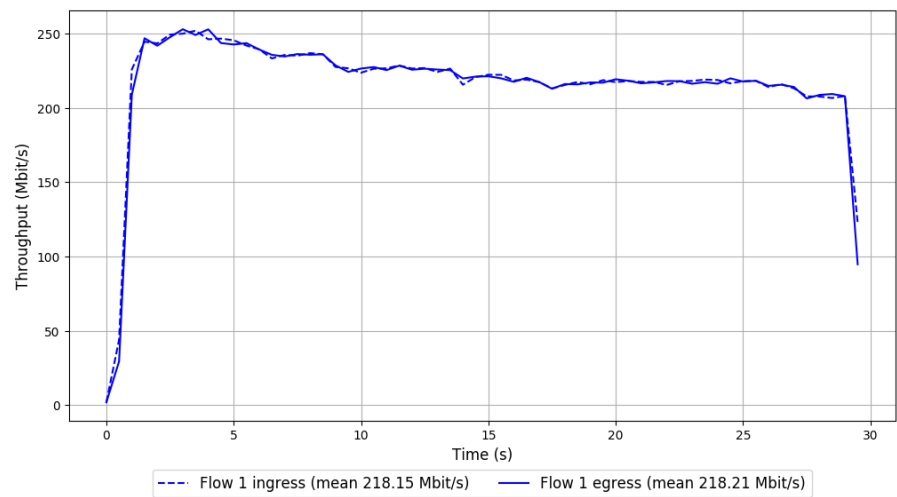
-- Flow 1:

Average throughput: 218.21 Mbit/s

95th percentile per-packet one-way delay: 63.820 ms

Loss rate: 0.40%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 20:35:47

End at: 2018-04-24 20:36:17

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.83 Mbit/s

95th percentile per-packet one-way delay: 63.596 ms

Loss rate: 0.45%

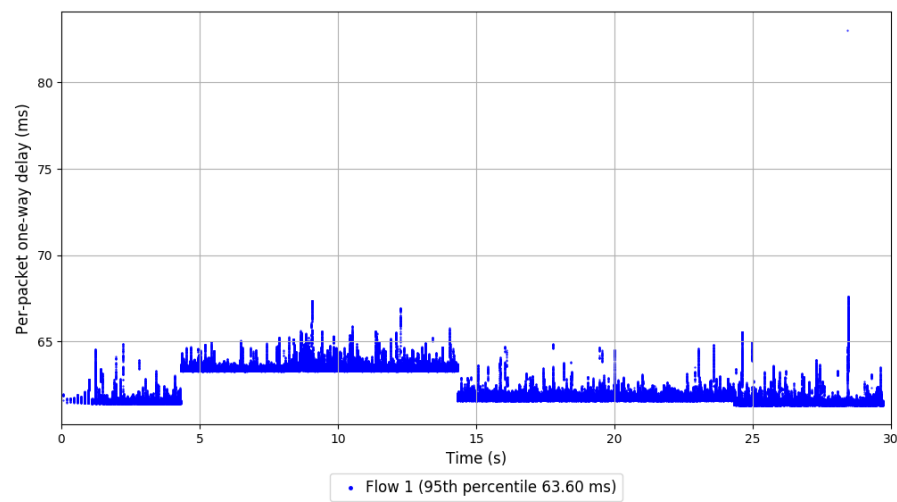
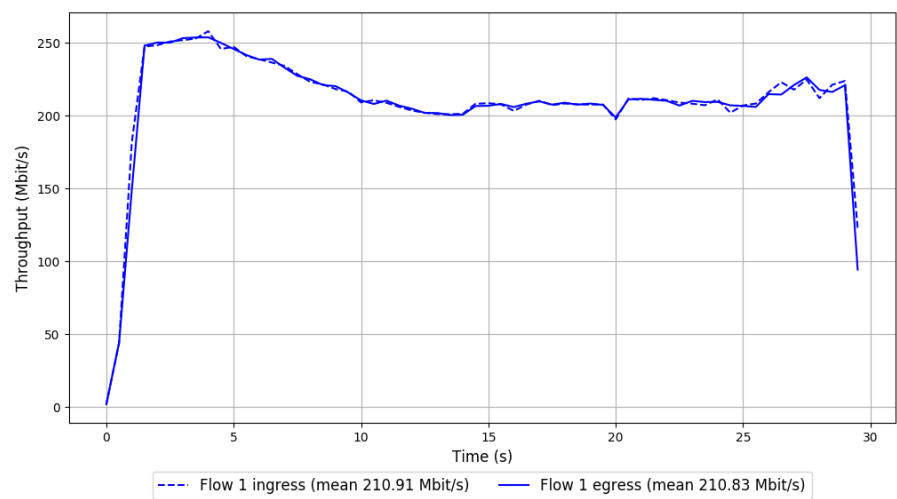
-- Flow 1:

Average throughput: 210.83 Mbit/s

95th percentile per-packet one-way delay: 63.596 ms

Loss rate: 0.45%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 20:49:00

End at: 2018-04-24 20:49:30

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.28 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 0.44%

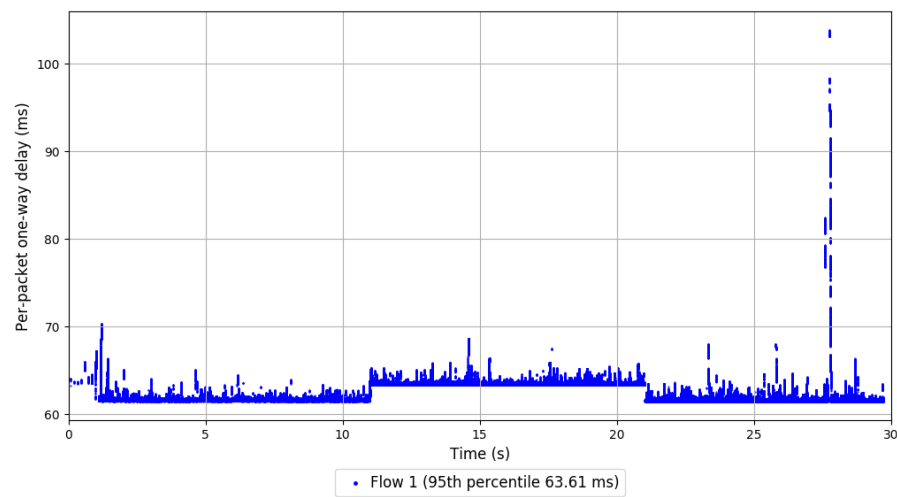
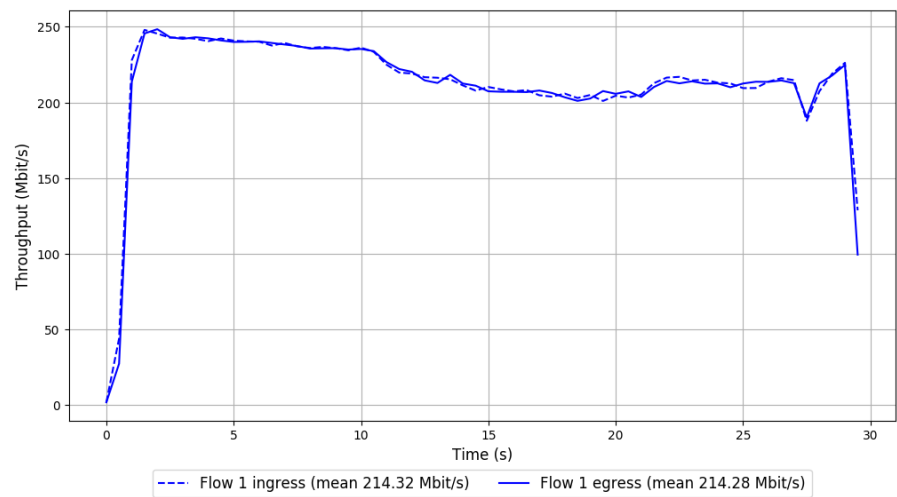
-- Flow 1:

Average throughput: 214.28 Mbit/s

95th percentile per-packet one-way delay: 63.612 ms

Loss rate: 0.44%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 18:47:14

End at: 2018-04-24 18:47:44

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.29 Mbit/s

95th percentile per-packet one-way delay: 73.846 ms

Loss rate: 0.40%

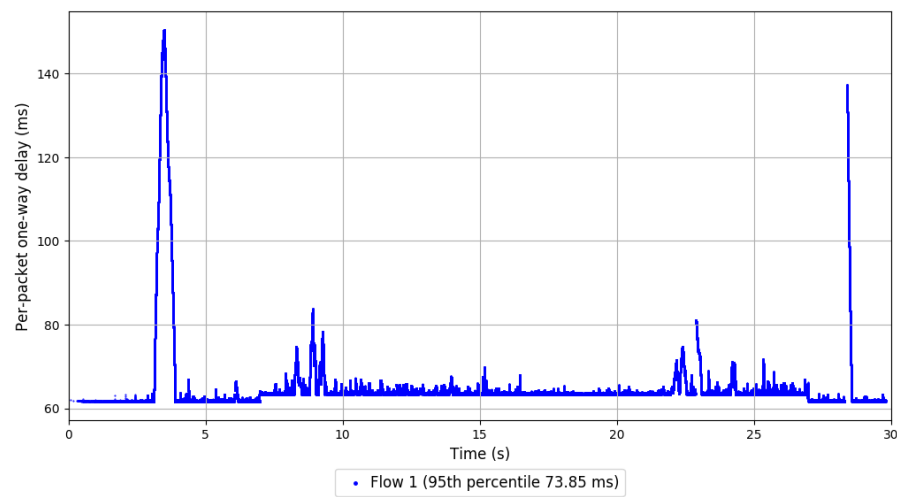
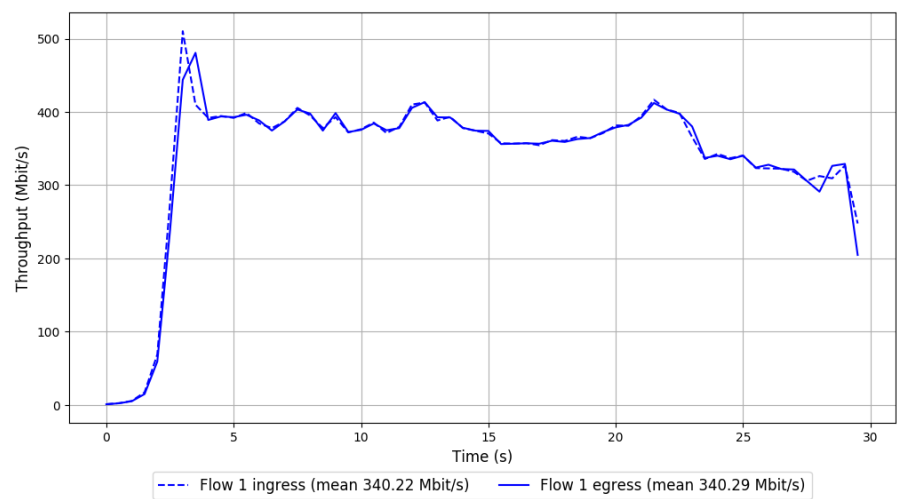
-- Flow 1:

Average throughput: 340.29 Mbit/s

95th percentile per-packet one-way delay: 73.846 ms

Loss rate: 0.40%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 19:00:33

End at: 2018-04-24 19:01:03

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.02 Mbit/s

95th percentile per-packet one-way delay: 73.007 ms

Loss rate: 0.43%

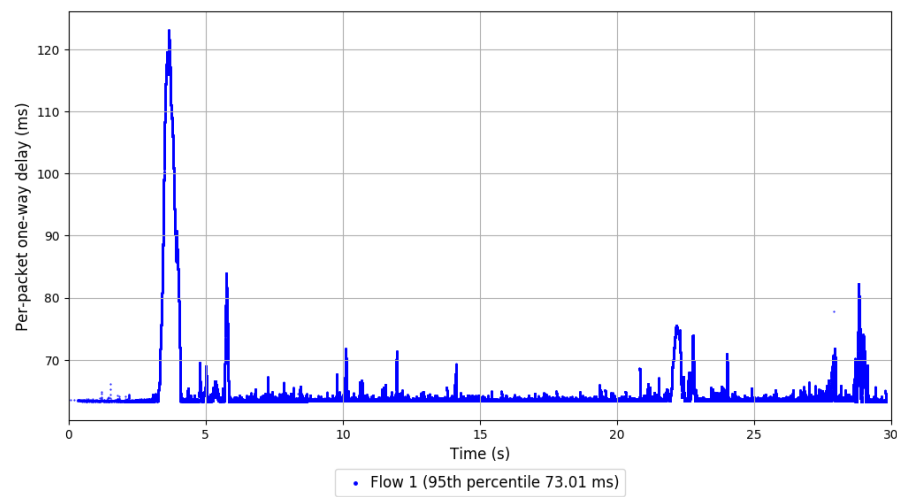
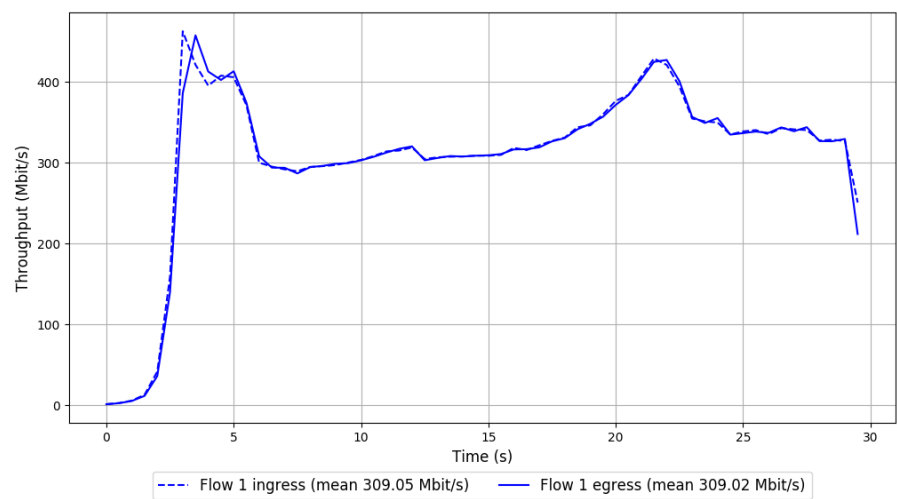
-- Flow 1:

Average throughput: 309.02 Mbit/s

95th percentile per-packet one-way delay: 73.007 ms

Loss rate: 0.43%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 19:14:00

End at: 2018-04-24 19:14:30

Below is generated by plot.py at 2018-04-25 00:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.08 Mbit/s

95th percentile per-packet one-way delay: 79.432 ms

Loss rate: 0.43%

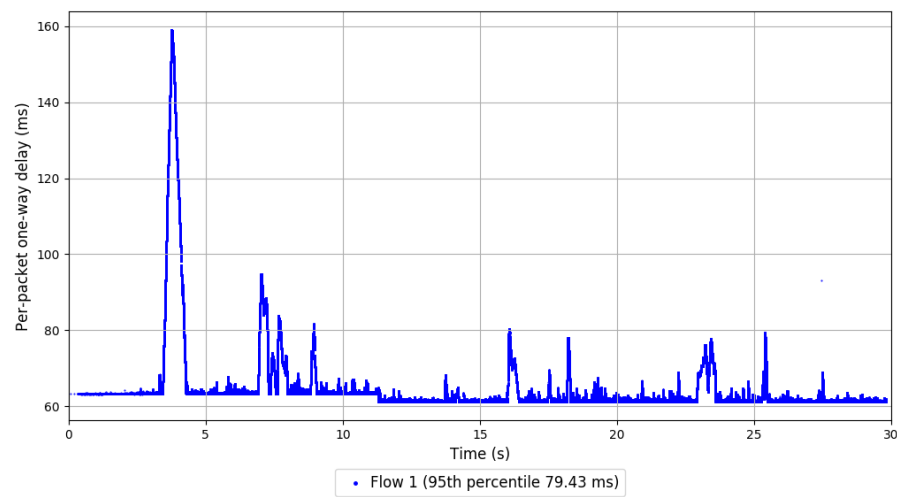
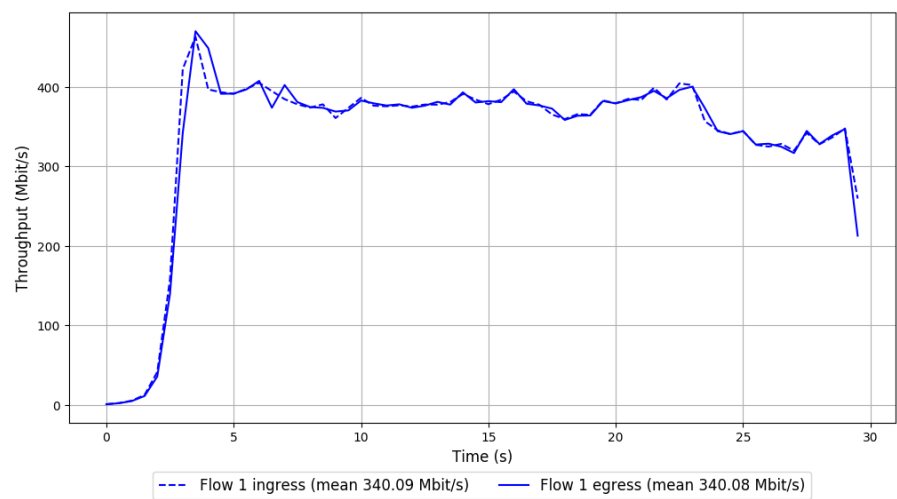
-- Flow 1:

Average throughput: 340.08 Mbit/s

95th percentile per-packet one-way delay: 79.432 ms

Loss rate: 0.43%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 19:27:15

End at: 2018-04-24 19:27:46

Below is generated by plot.py at 2018-04-25 00:22:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.90 Mbit/s

95th percentile per-packet one-way delay: 84.173 ms

Loss rate: 0.45%

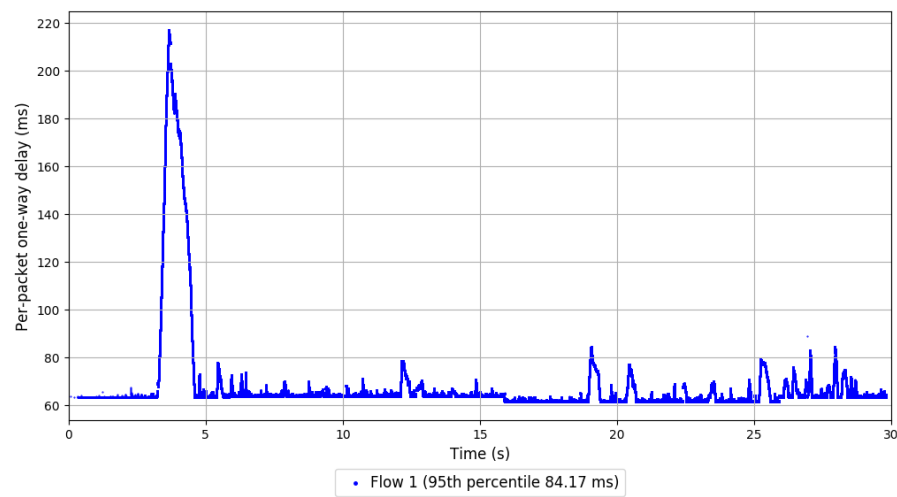
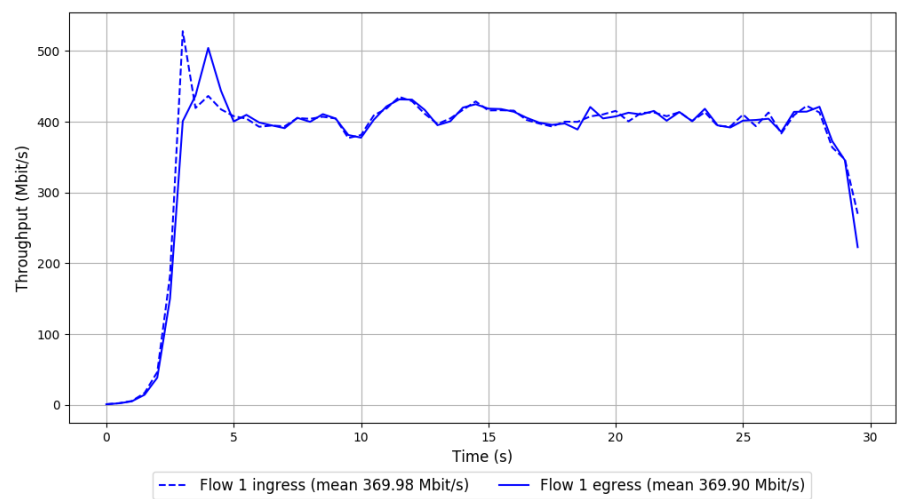
-- Flow 1:

Average throughput: 369.90 Mbit/s

95th percentile per-packet one-way delay: 84.173 ms

Loss rate: 0.45%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 19:40:43

End at: 2018-04-24 19:41:13

Below is generated by plot.py at 2018-04-25 00:22:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.94 Mbit/s

95th percentile per-packet one-way delay: 90.335 ms

Loss rate: 0.30%

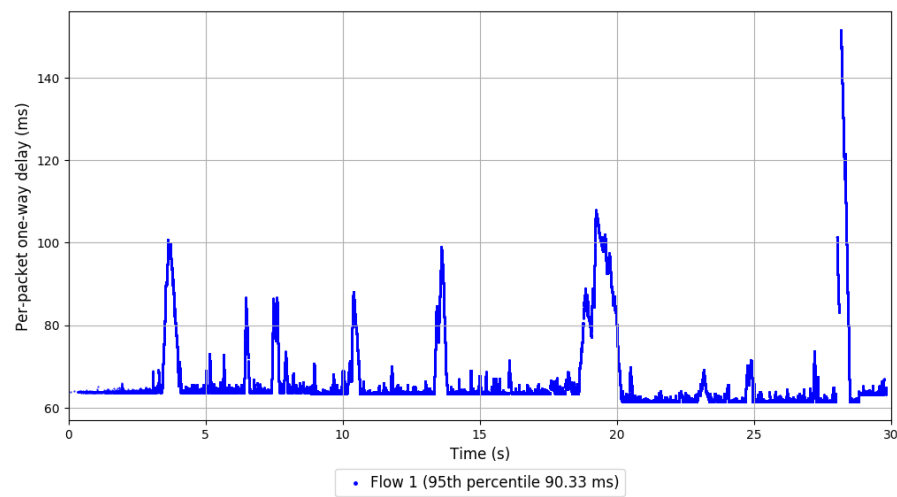
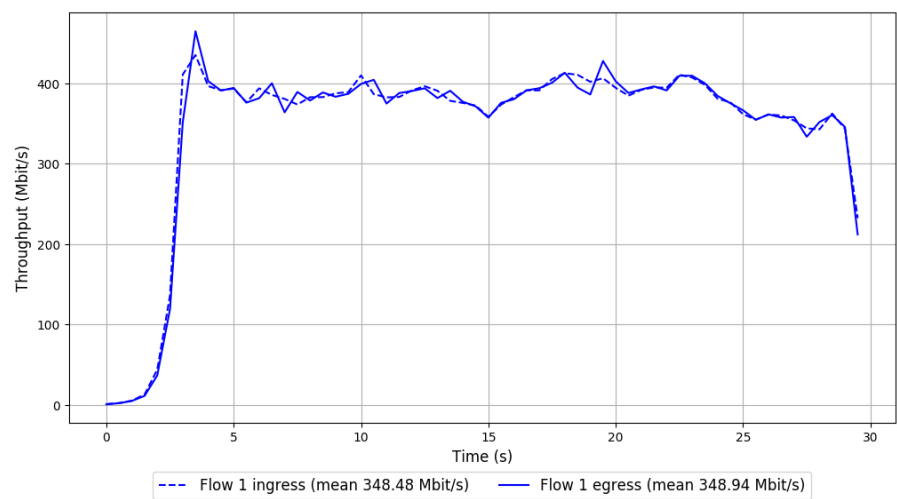
-- Flow 1:

Average throughput: 348.94 Mbit/s

95th percentile per-packet one-way delay: 90.335 ms

Loss rate: 0.30%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 19:54:07

End at: 2018-04-24 19:54:37

Below is generated by plot.py at 2018-04-25 00:22:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.35 Mbit/s

95th percentile per-packet one-way delay: 67.750 ms

Loss rate: 0.49%

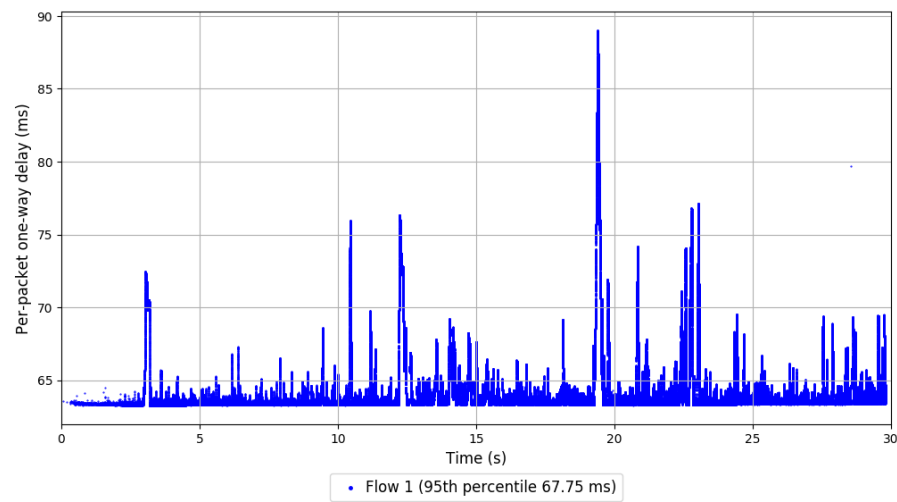
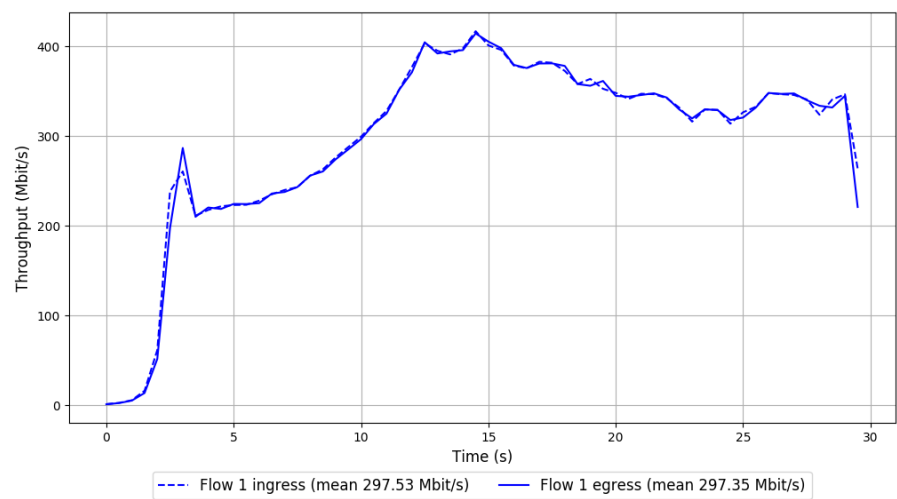
-- Flow 1:

Average throughput: 297.35 Mbit/s

95th percentile per-packet one-way delay: 67.750 ms

Loss rate: 0.49%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 20:07:23

End at: 2018-04-24 20:07:53

Below is generated by plot.py at 2018-04-25 00:24:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.48 Mbit/s

95th percentile per-packet one-way delay: 99.420 ms

Loss rate: 0.50%

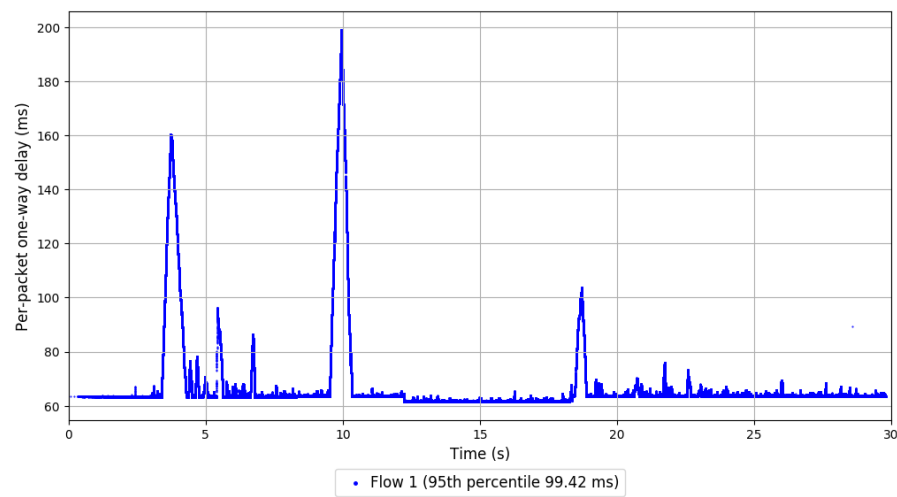
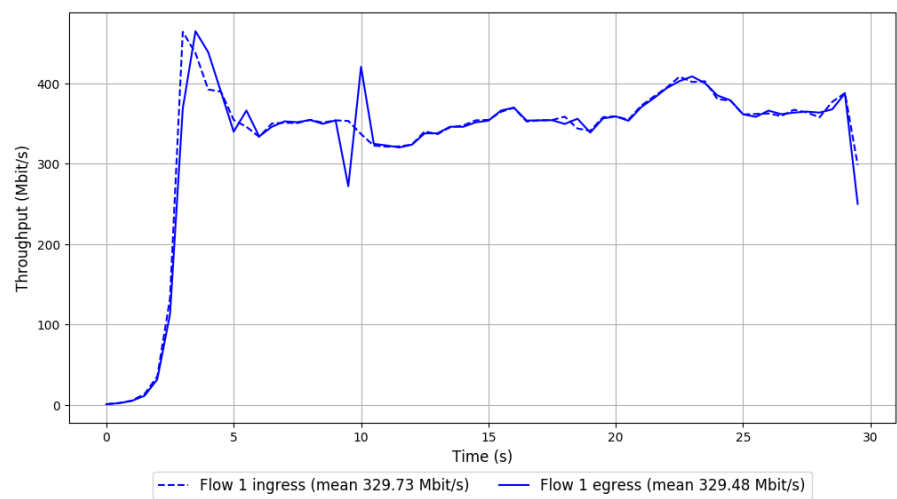
-- Flow 1:

Average throughput: 329.48 Mbit/s

95th percentile per-packet one-way delay: 99.420 ms

Loss rate: 0.50%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 20:20:53

End at: 2018-04-24 20:21:23

Below is generated by plot.py at 2018-04-25 00:24:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.16 Mbit/s

95th percentile per-packet one-way delay: 90.793 ms

Loss rate: 0.42%

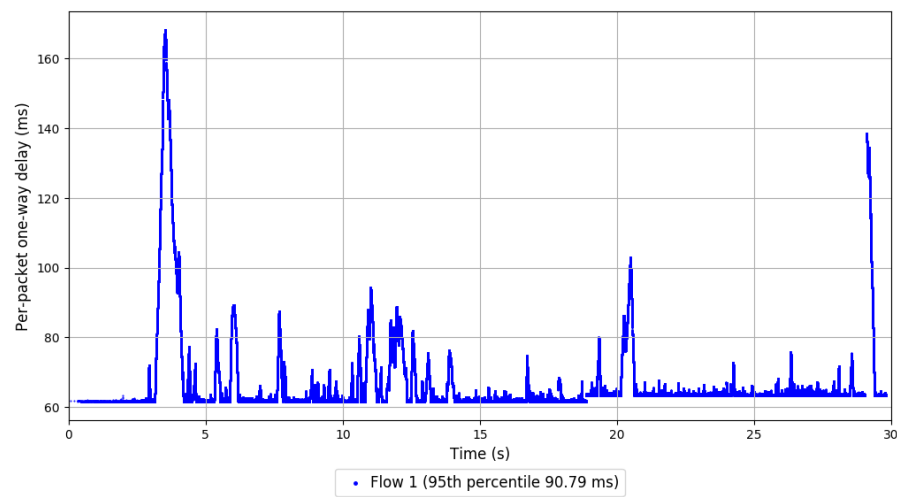
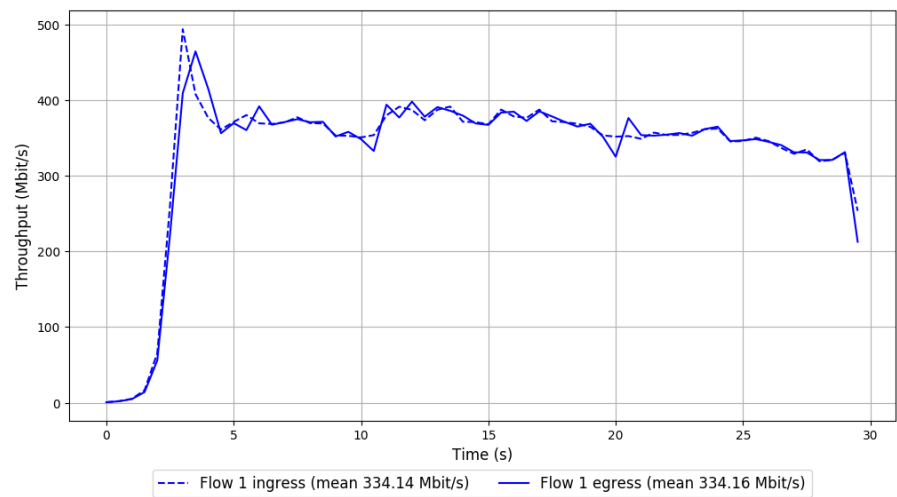
-- Flow 1:

Average throughput: 334.16 Mbit/s

95th percentile per-packet one-way delay: 90.793 ms

Loss rate: 0.42%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 20:34:36

End at: 2018-04-24 20:35:07

Below is generated by plot.py at 2018-04-25 00:24:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.93 Mbit/s

95th percentile per-packet one-way delay: 77.090 ms

Loss rate: 0.47%

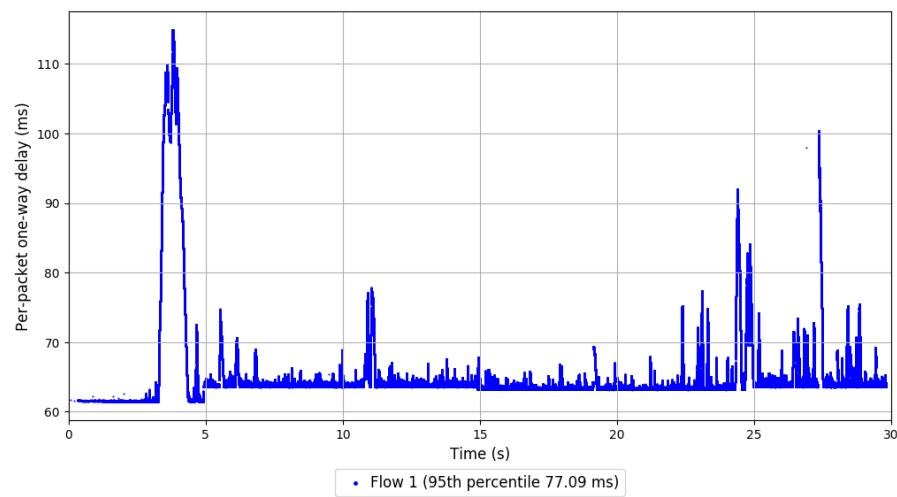
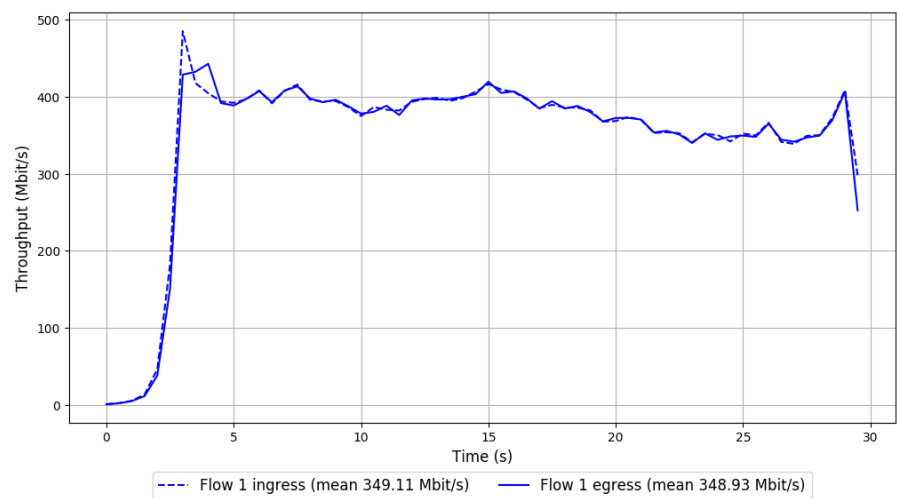
-- Flow 1:

Average throughput: 348.93 Mbit/s

95th percentile per-packet one-way delay: 77.090 ms

Loss rate: 0.47%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 20:48:02

End at: 2018-04-24 20:48:32

Below is generated by plot.py at 2018-04-25 00:24:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.77 Mbit/s

95th percentile per-packet one-way delay: 148.462 ms

Loss rate: 0.63%

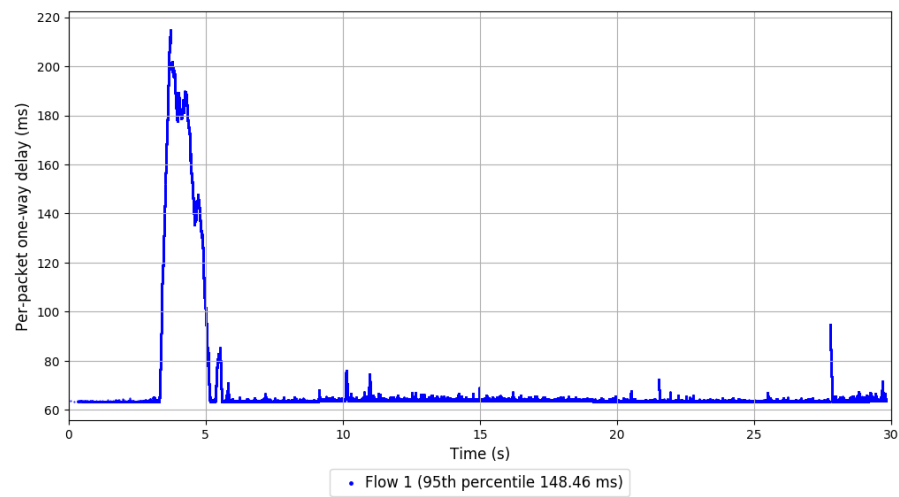
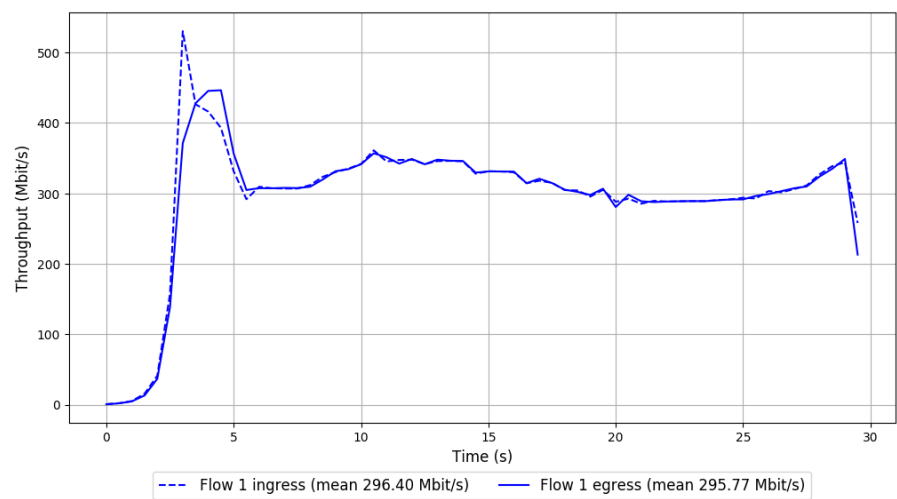
-- Flow 1:

Average throughput: 295.77 Mbit/s

95th percentile per-packet one-way delay: 148.462 ms

Loss rate: 0.63%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 18:50:30

End at: 2018-04-24 18:51:00

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 19:03:48

End at: 2018-04-24 19:04:18

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 19:17:16

End at: 2018-04-24 19:17:46

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 19:30:34

End at: 2018-04-24 19:31:04

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 19:43:59

End at: 2018-04-24 19:44:29

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 19:57:22

End at: 2018-04-24 19:57:52

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 20:10:41

End at: 2018-04-24 20:11:11

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 20:24:10

End at: 2018-04-24 20:24:40

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 20:38:03

End at: 2018-04-24 20:38:33

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 20:51:17

End at: 2018-04-24 20:51:47

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing