

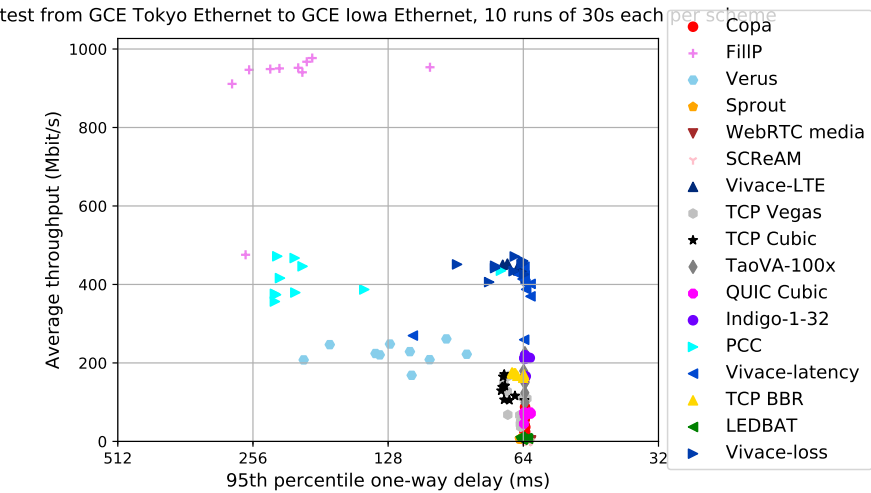
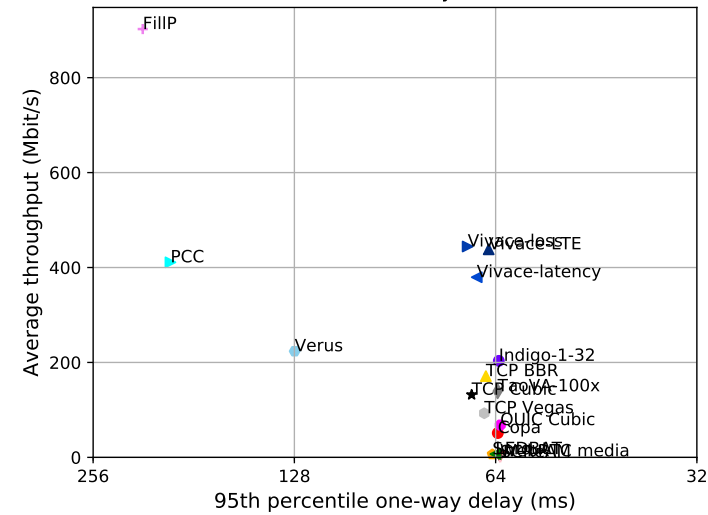
Pantheon Report

Generated at 2018-02-13 17:32:27 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).
Repeated the test of 17 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 @ 2efdad57c2c56a9458b0d01ff33345e11732665
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 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 @ a488197ddd041ace68a42849b2540ad834825f42
```

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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	171.17	66.19	0.54
TCP Cubic	10	131.91	69.51	0.41
LEDBAT	10	6.93	64.06	0.69
PCC	10	410.95	196.12	2.46
QUIC Cubic	10	67.97	62.99	0.54
SCReAM	10	0.22	63.00	0.38
WebRTC media	10	2.17	63.05	0.52
Sprout	10	6.46	64.72	0.51
TaoVA-100x	10	139.28	63.57	0.56
TCP Vegas	10	92.91	66.55	0.43
Verus	10	223.59	127.89	0.66
Copa	10	51.23	63.53	0.60
FillP	10	902.40	215.78	1.64
Indigo-1-32	10	203.32	63.30	0.52
Vivace-latency	10	379.54	68.31	0.60
Vivace-loss	10	444.27	70.47	0.45
Vivace-LTE	10	438.32	65.55	0.44

Run 1: Statistics of TCP BBR

Start at: 2018-02-13 11:08:30

End at: 2018-02-13 11:09:00

Below is generated by plot.py at 2018-02-13 16:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.59 Mbit/s

95th percentile per-packet one-way delay: 66.619 ms

Loss rate: 0.43%

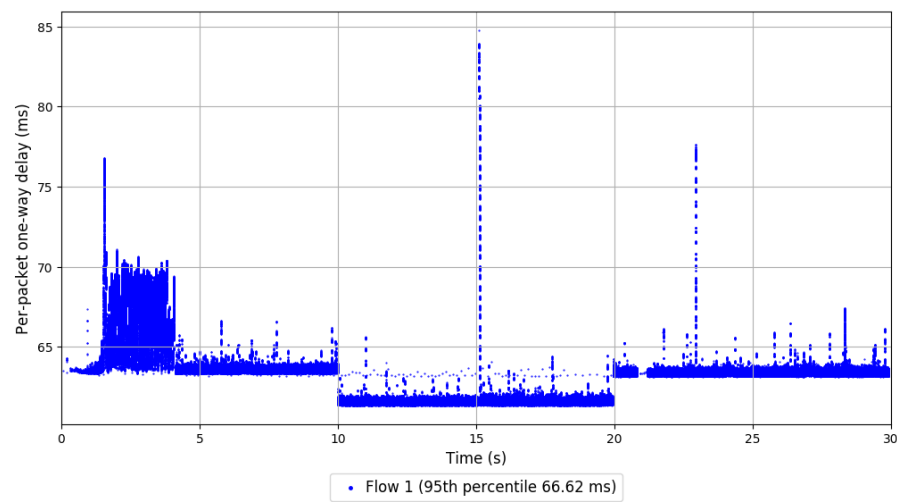
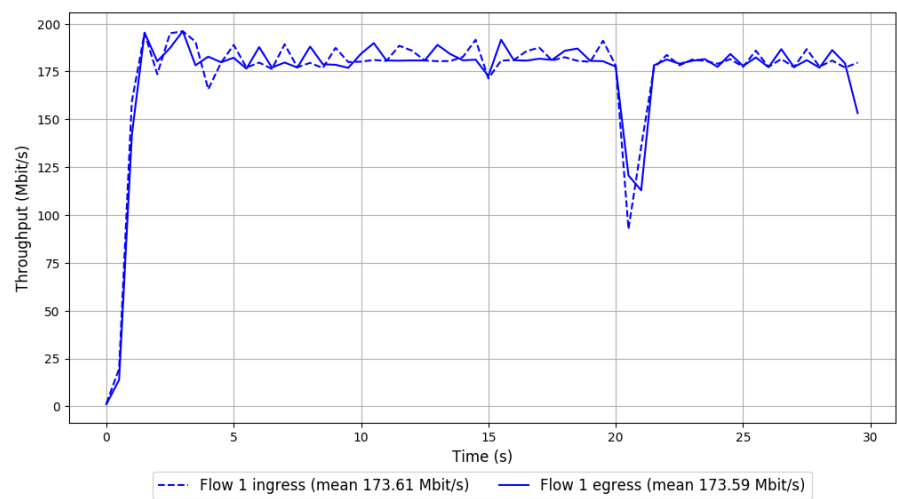
-- Flow 1:

Average throughput: 173.59 Mbit/s

95th percentile per-packet one-way delay: 66.619 ms

Loss rate: 0.43%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-13 11:23:25

End at: 2018-02-13 11:23:55

Below is generated by plot.py at 2018-02-13 16:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.85 Mbit/s

95th percentile per-packet one-way delay: 66.956 ms

Loss rate: 0.44%

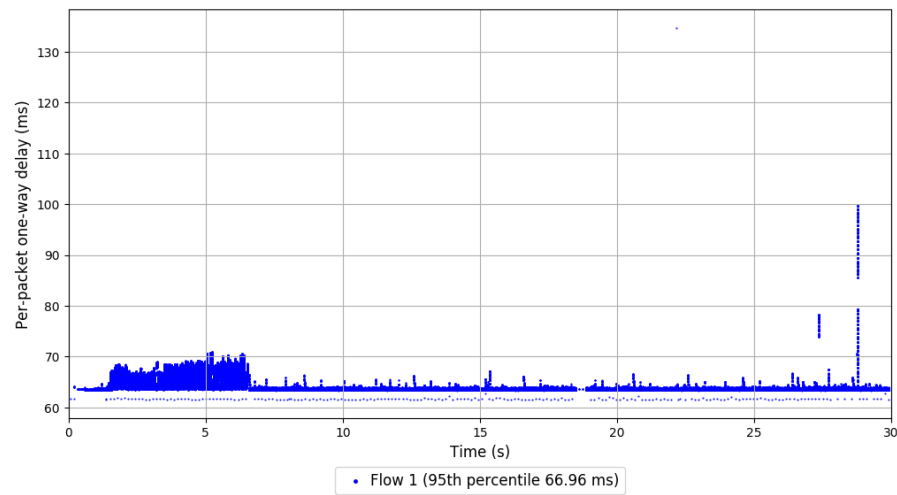
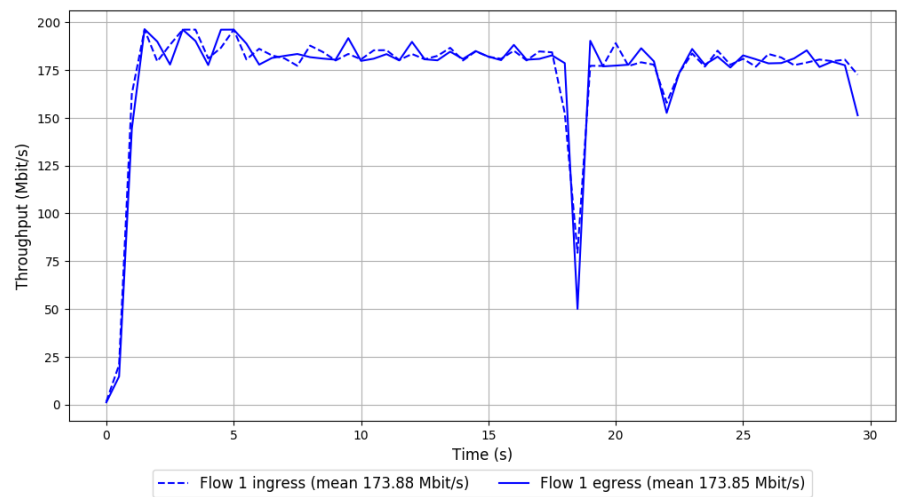
-- Flow 1:

Average throughput: 173.85 Mbit/s

95th percentile per-packet one-way delay: 66.956 ms

Loss rate: 0.44%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-13 11:38:03

End at: 2018-02-13 11:38:33

Below is generated by plot.py at 2018-02-13 16:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.30 Mbit/s

95th percentile per-packet one-way delay: 67.555 ms

Loss rate: 0.43%

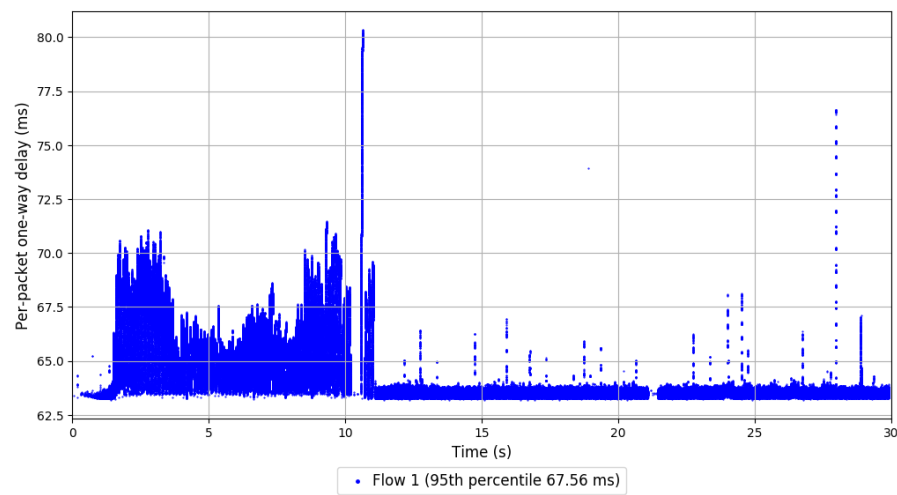
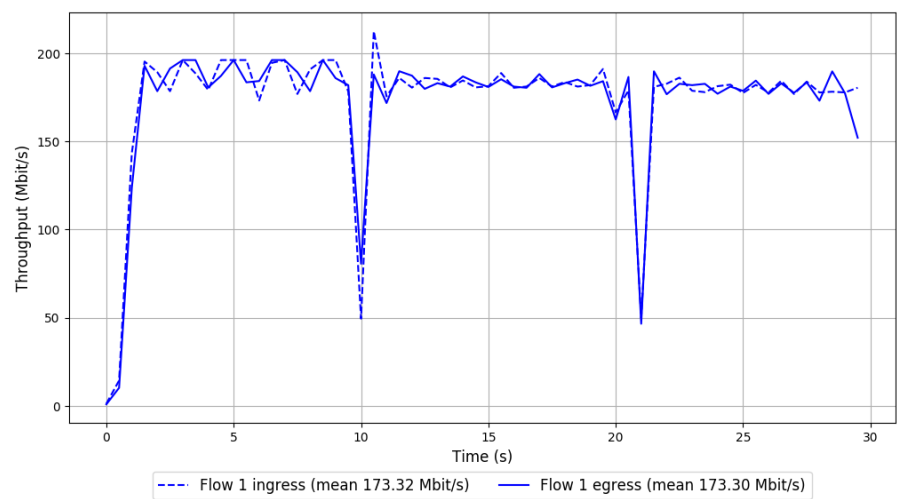
-- Flow 1:

Average throughput: 173.30 Mbit/s

95th percentile per-packet one-way delay: 67.555 ms

Loss rate: 0.43%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-13 11:53:01

End at: 2018-02-13 11:53:31

Below is generated by plot.py at 2018-02-13 16:17:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.26 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 0.56%

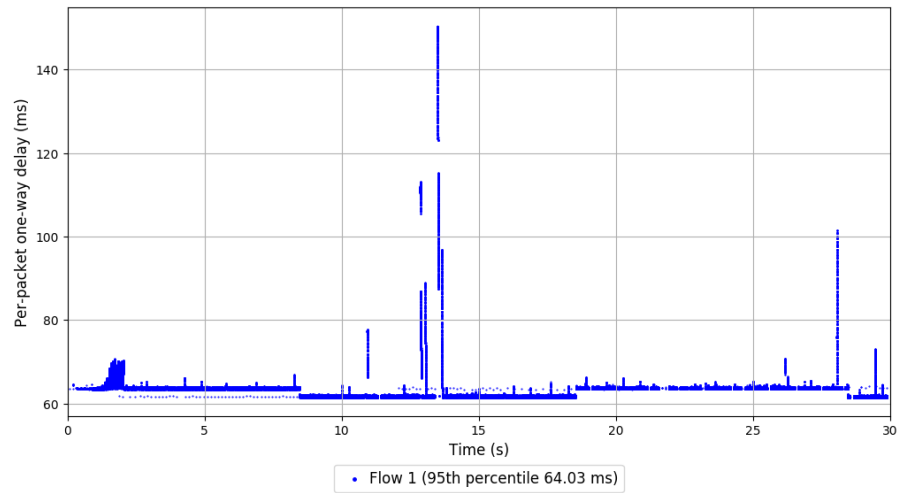
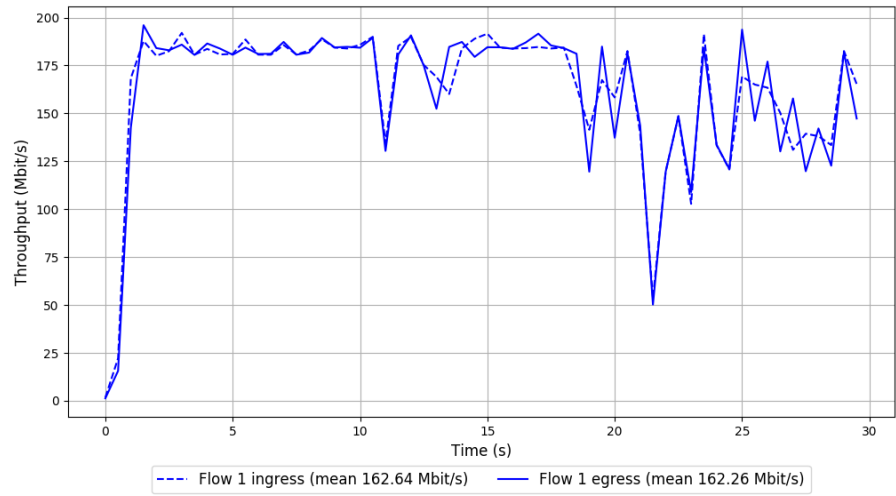
-- Flow 1:

Average throughput: 162.26 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 0.56%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-13 12:07:38

End at: 2018-02-13 12:08:08

Below is generated by plot.py at 2018-02-13 16:17:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.08 Mbit/s

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

Loss rate: 0.43%

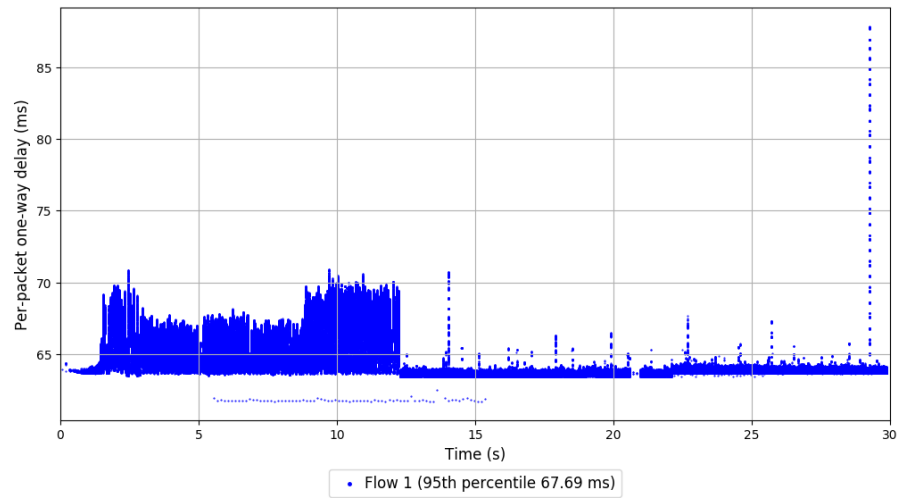
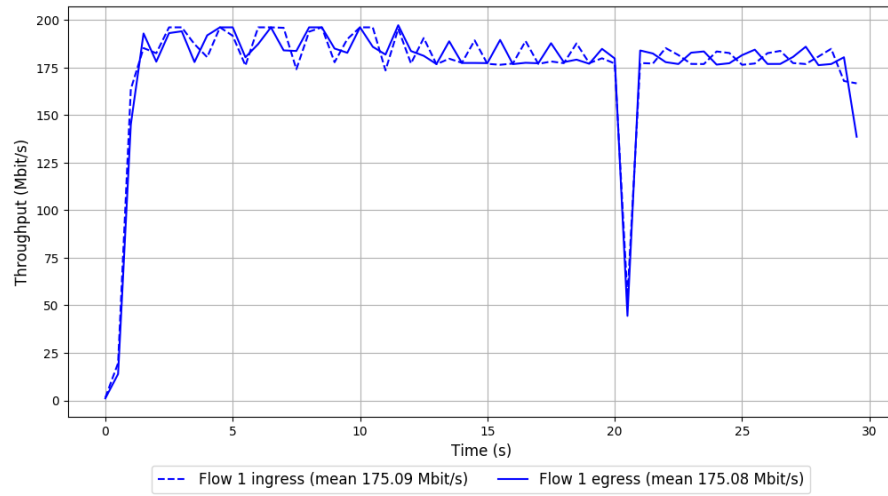
-- Flow 1:

Average throughput: 175.08 Mbit/s

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

Loss rate: 0.43%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-13 12:22:12

End at: 2018-02-13 12:22:42

Below is generated by plot.py at 2018-02-13 16:17:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.20 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 0.61%

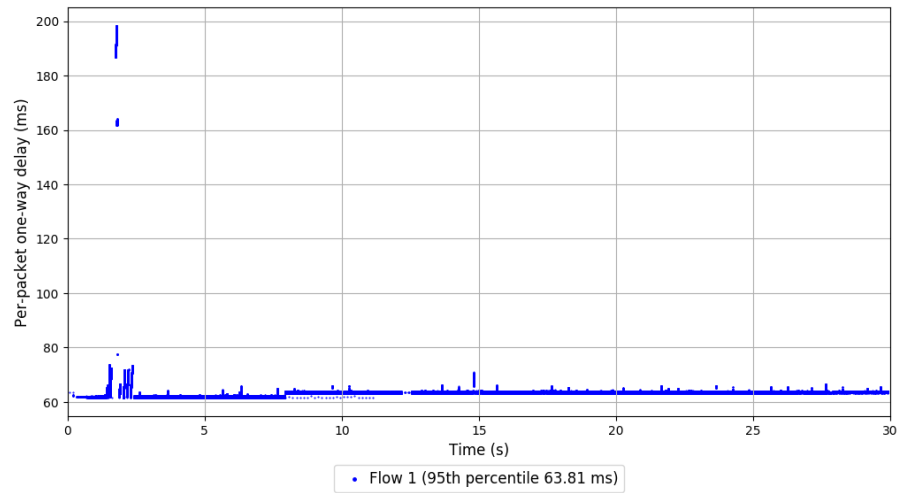
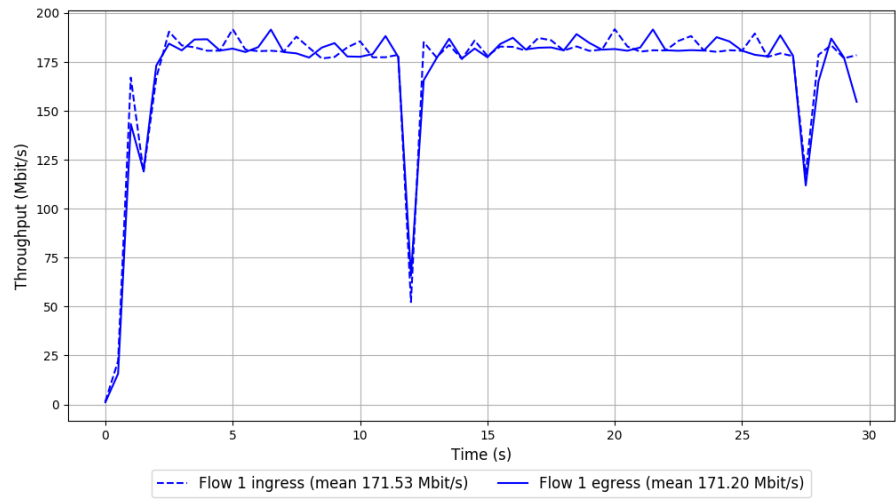
-- Flow 1:

Average throughput: 171.20 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 0.61%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-13 12:37:04

End at: 2018-02-13 12:37:34

Below is generated by plot.py at 2018-02-13 16:17:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.27 Mbit/s

95th percentile per-packet one-way delay: 67.593 ms

Loss rate: 0.78%

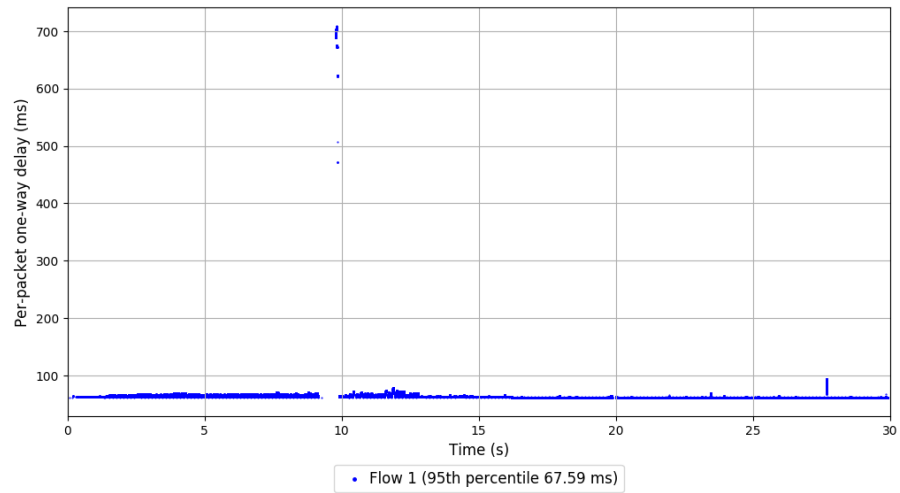
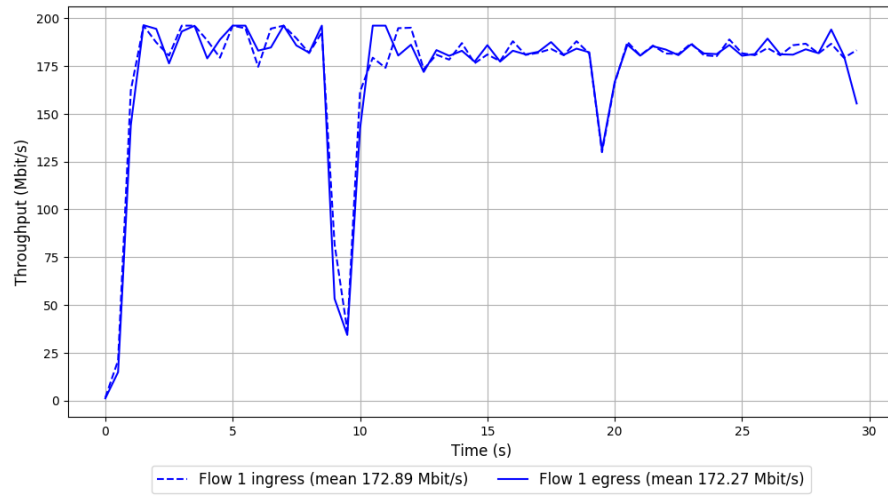
-- Flow 1:

Average throughput: 172.27 Mbit/s

95th percentile per-packet one-way delay: 67.593 ms

Loss rate: 0.78%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-13 12:51:47

End at: 2018-02-13 12:52:17

Below is generated by plot.py at 2018-02-13 16:17:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.39 Mbit/s

95th percentile per-packet one-way delay: 65.993 ms

Loss rate: 0.87%

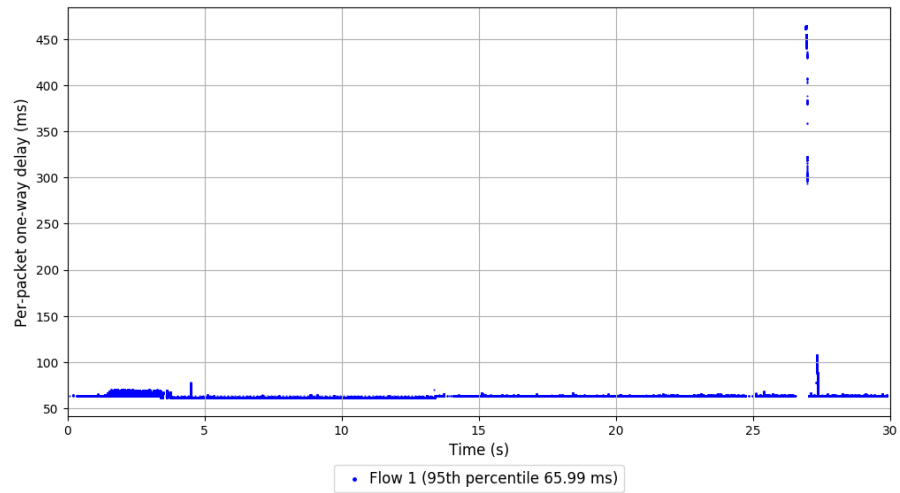
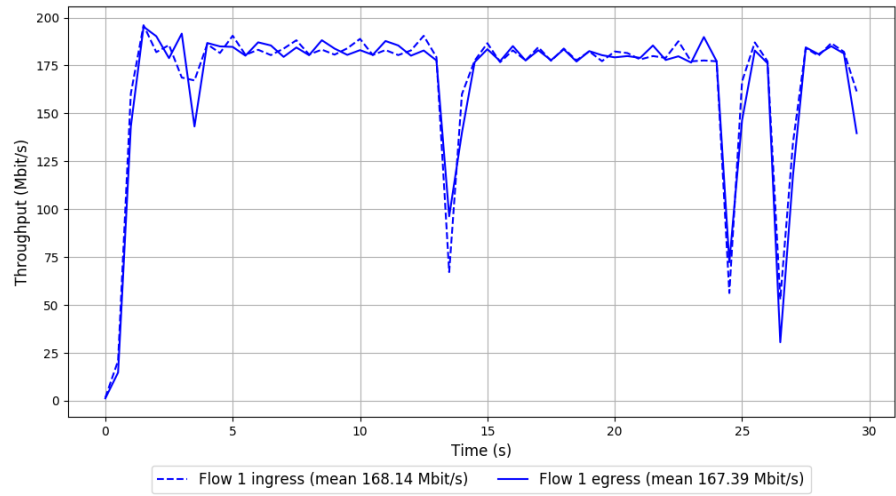
-- Flow 1:

Average throughput: 167.39 Mbit/s

95th percentile per-packet one-way delay: 65.993 ms

Loss rate: 0.87%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-13 13:06:31

End at: 2018-02-13 13:07:01

Below is generated by plot.py at 2018-02-13 16:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.51 Mbit/s

95th percentile per-packet one-way delay: 67.846 ms

Loss rate: 0.42%

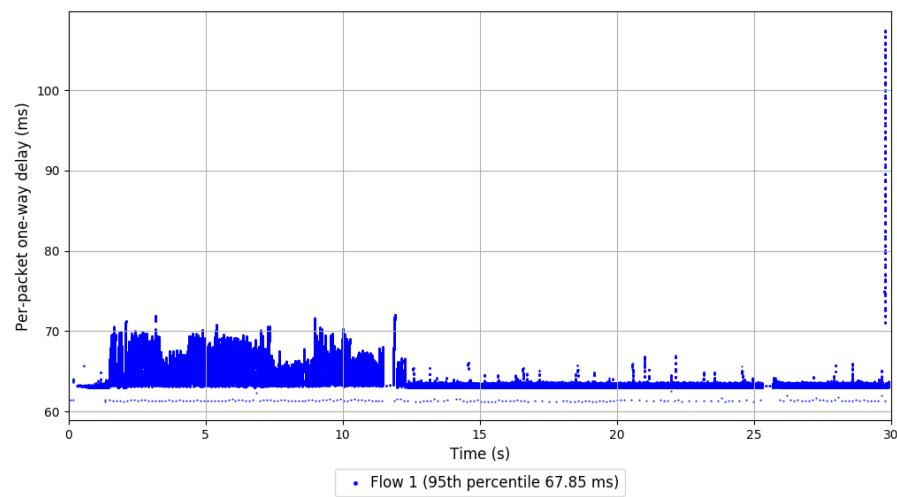
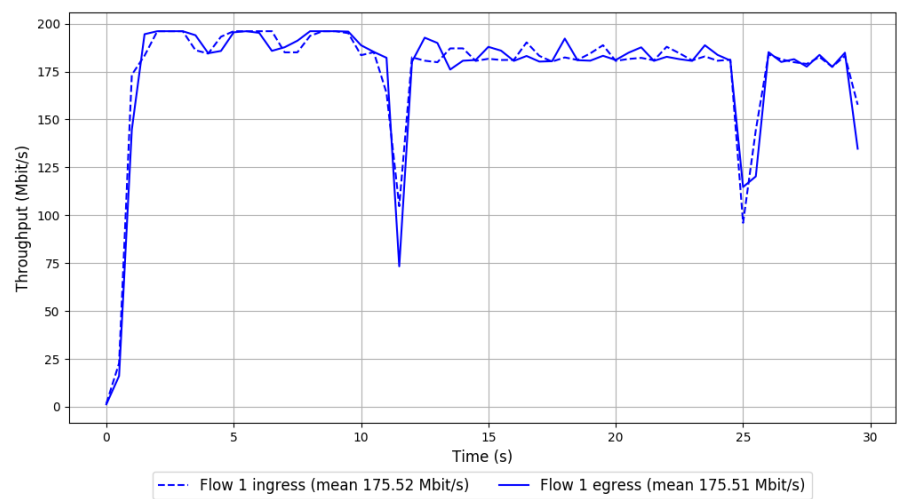
-- Flow 1:

Average throughput: 175.51 Mbit/s

95th percentile per-packet one-way delay: 67.846 ms

Loss rate: 0.42%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-13 13:21:20

End at: 2018-02-13 13:21:50

Below is generated by plot.py at 2018-02-13 16:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.25 Mbit/s

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

Loss rate: 0.45%

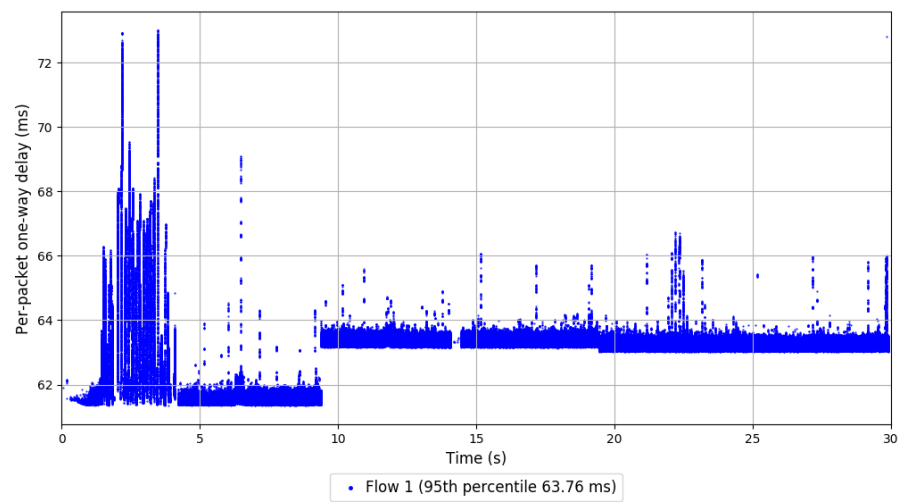
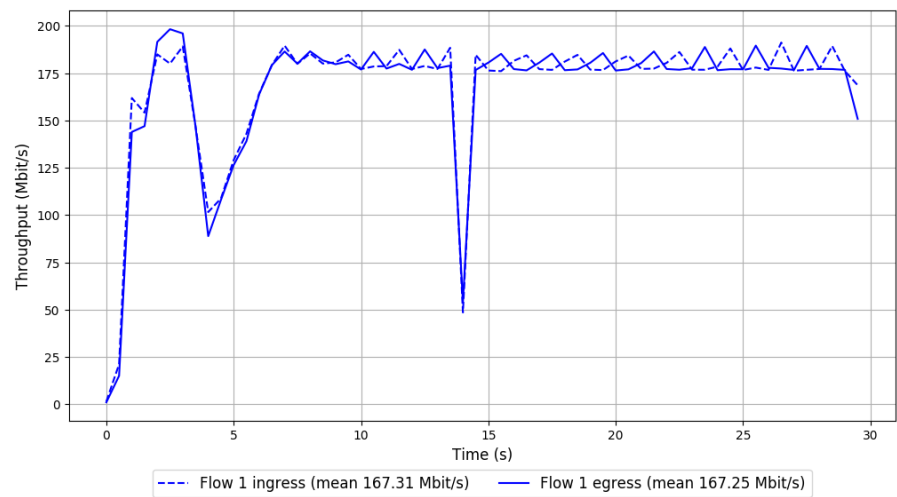
-- Flow 1:

Average throughput: 167.25 Mbit/s

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

Loss rate: 0.45%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-13 11:09:16

End at: 2018-02-13 11:09:46

Below is generated by plot.py at 2018-02-13 16:20:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.95 Mbit/s

95th percentile per-packet one-way delay: 70.571 ms

Loss rate: 0.49%

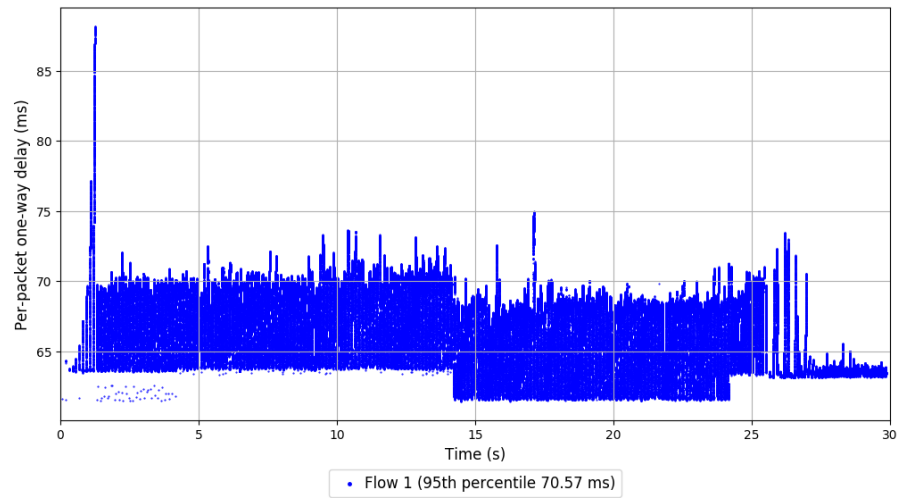
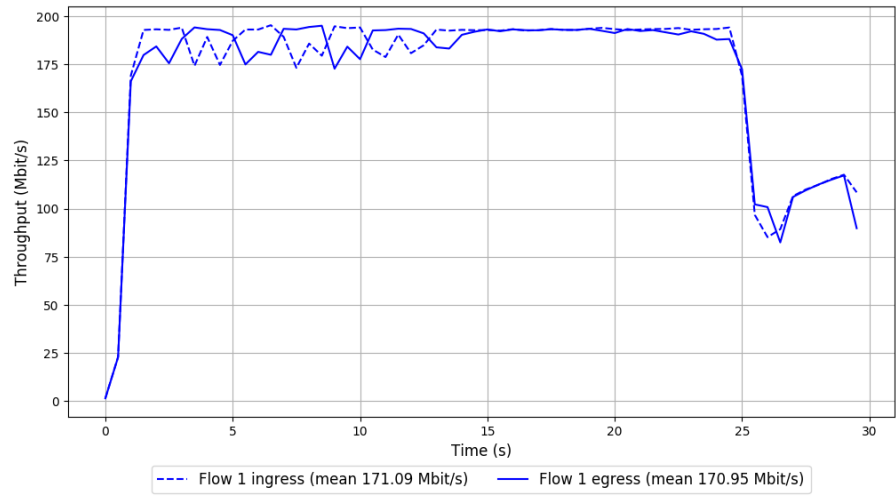
-- Flow 1:

Average throughput: 170.95 Mbit/s

95th percentile per-packet one-way delay: 70.571 ms

Loss rate: 0.49%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-13 11:24:11

End at: 2018-02-13 11:24:41

Below is generated by plot.py at 2018-02-13 16:20:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.07 Mbit/s

95th percentile per-packet one-way delay: 68.730 ms

Loss rate: 0.46%

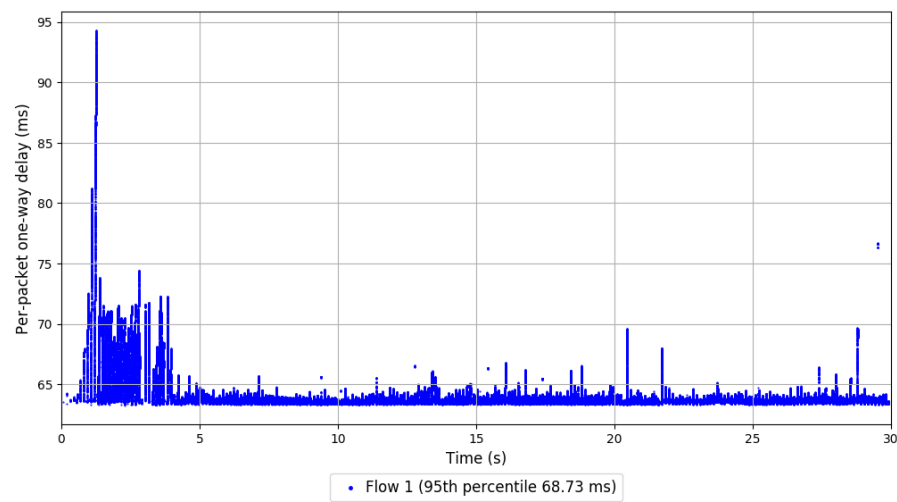
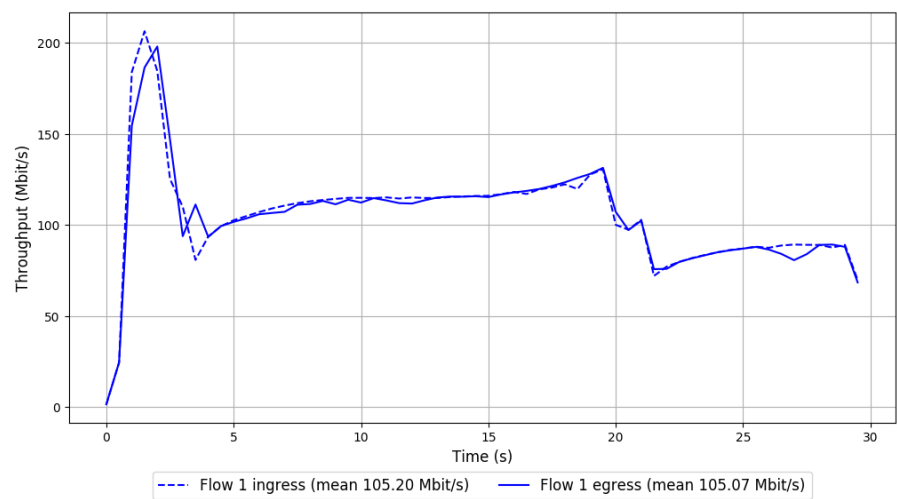
-- Flow 1:

Average throughput: 105.07 Mbit/s

95th percentile per-packet one-way delay: 68.730 ms

Loss rate: 0.46%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-13 11:38:49

End at: 2018-02-13 11:39:19

Below is generated by plot.py at 2018-02-13 16:20:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.88 Mbit/s

95th percentile per-packet one-way delay: 71.007 ms

Loss rate: 0.73%

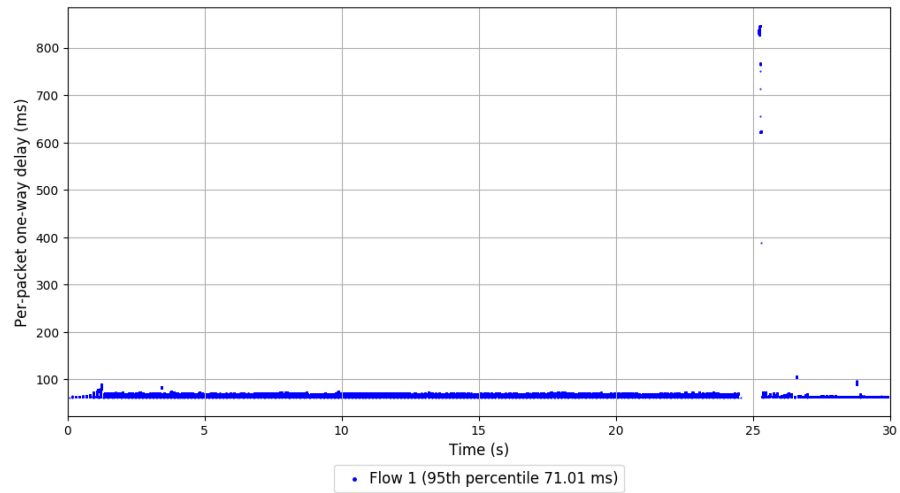
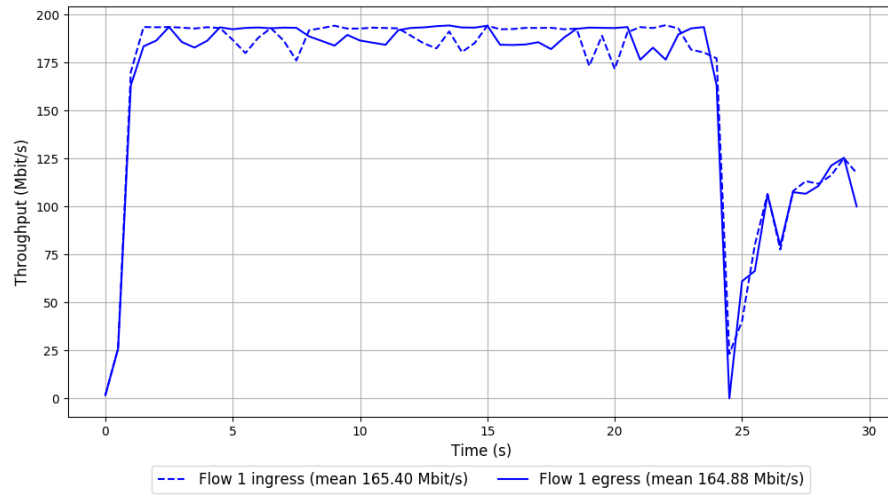
-- Flow 1:

Average throughput: 164.88 Mbit/s

95th percentile per-packet one-way delay: 71.007 ms

Loss rate: 0.73%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-13 11:53:47

End at: 2018-02-13 11:54:17

Below is generated by plot.py at 2018-02-13 16:20:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.30 Mbit/s

95th percentile per-packet one-way delay: 70.606 ms

Loss rate: 0.43%

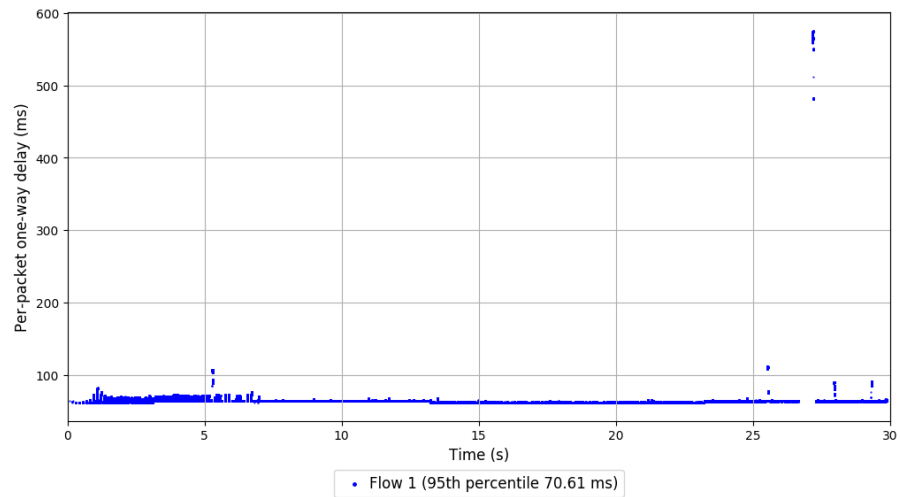
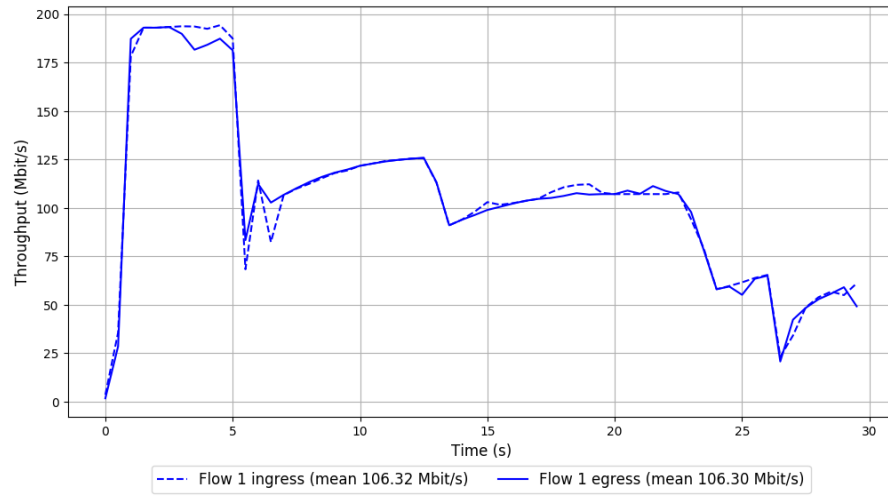
-- Flow 1:

Average throughput: 106.30 Mbit/s

95th percentile per-packet one-way delay: 70.606 ms

Loss rate: 0.43%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-13 12:08:23

End at: 2018-02-13 12:08:53

Below is generated by plot.py at 2018-02-13 16:20:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.62 Mbit/s

95th percentile per-packet one-way delay: 71.293 ms

Loss rate: 0.20%

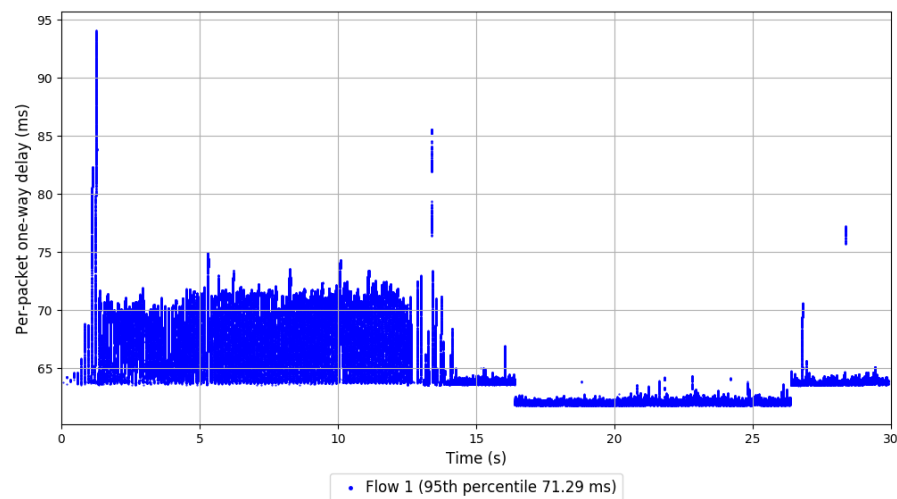
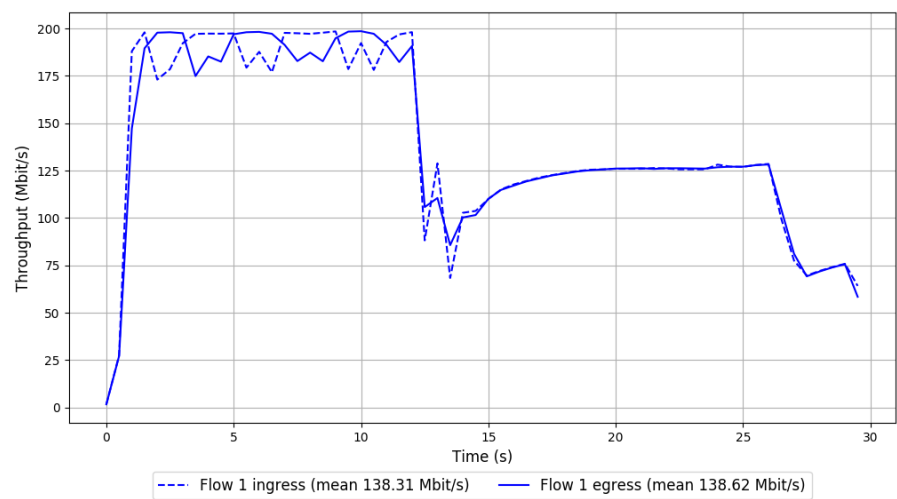
-- Flow 1:

Average throughput: 138.62 Mbit/s

95th percentile per-packet one-way delay: 71.293 ms

Loss rate: 0.20%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-13 12:22:58

End at: 2018-02-13 12:23:28

Below is generated by plot.py at 2018-02-13 16:20:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.23 Mbit/s

95th percentile per-packet one-way delay: 66.792 ms

Loss rate: 0.37%

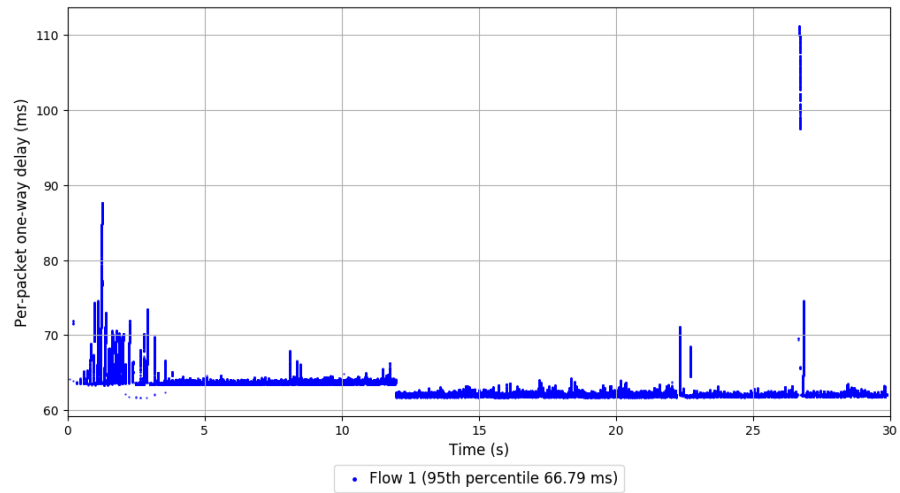
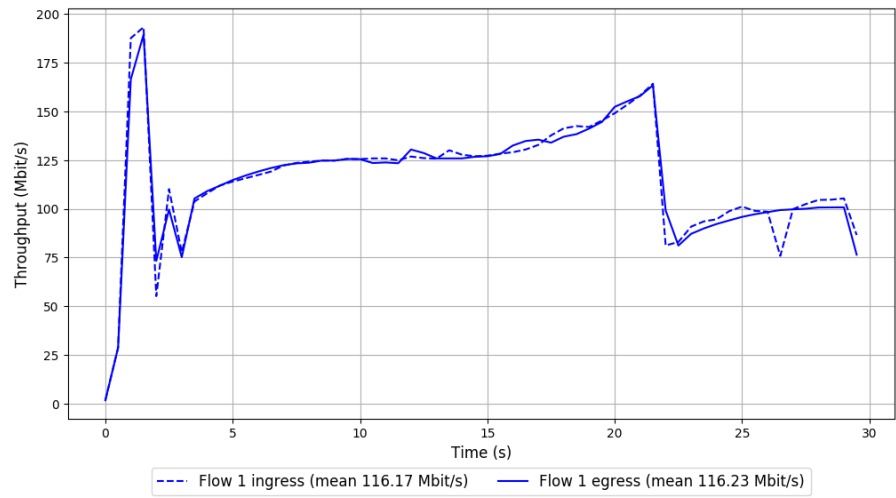
-- Flow 1:

Average throughput: 116.23 Mbit/s

95th percentile per-packet one-way delay: 66.792 ms

Loss rate: 0.37%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-13 12:37:49

End at: 2018-02-13 12:38:20

Below is generated by plot.py at 2018-02-13 16:21:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.33 Mbit/s

95th percentile per-packet one-way delay: 71.687 ms

Loss rate: 0.11%

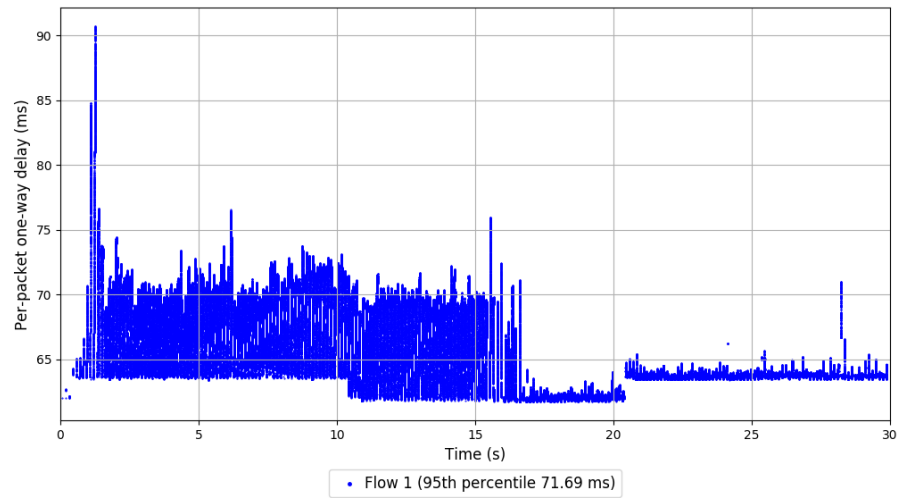
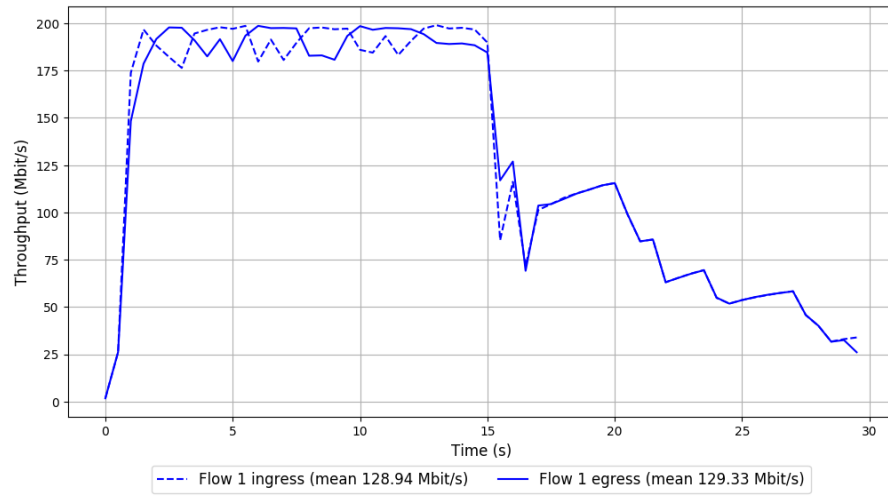
-- Flow 1:

Average throughput: 129.33 Mbit/s

95th percentile per-packet one-way delay: 71.687 ms

Loss rate: 0.11%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-13 12:52:32

End at: 2018-02-13 12:53:02

Below is generated by plot.py at 2018-02-13 16:21:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.28 Mbit/s

95th percentile per-packet one-way delay: 70.336 ms

Loss rate: 0.44%

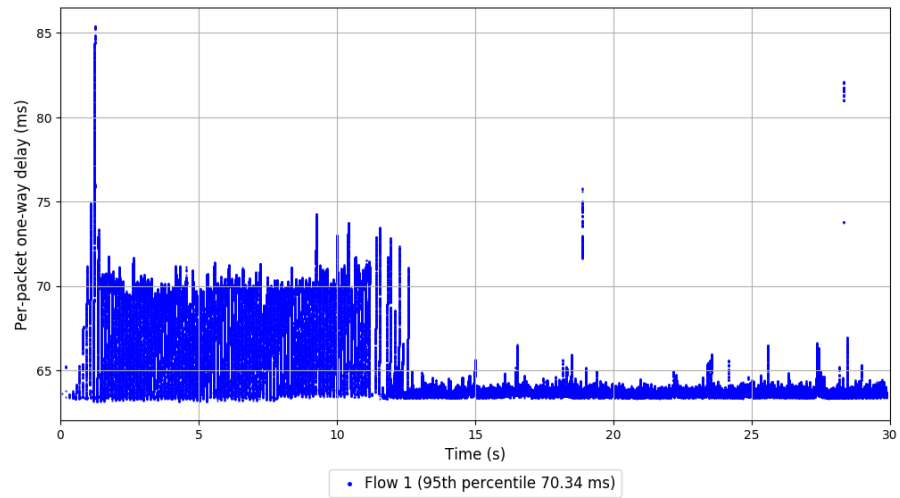
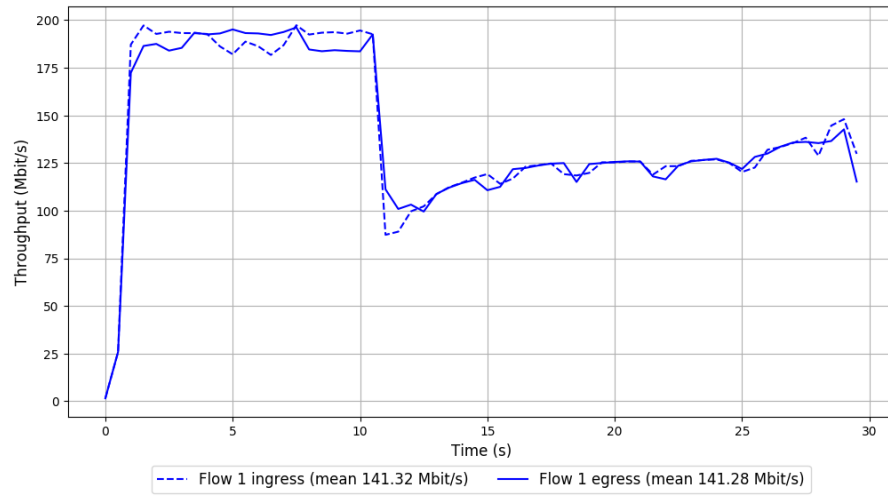
-- Flow 1:

Average throughput: 141.28 Mbit/s

95th percentile per-packet one-way delay: 70.336 ms

Loss rate: 0.44%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-13 13:07:17

End at: 2018-02-13 13:07:47

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.76 Mbit/s

95th percentile per-packet one-way delay: 70.456 ms

Loss rate: 0.36%

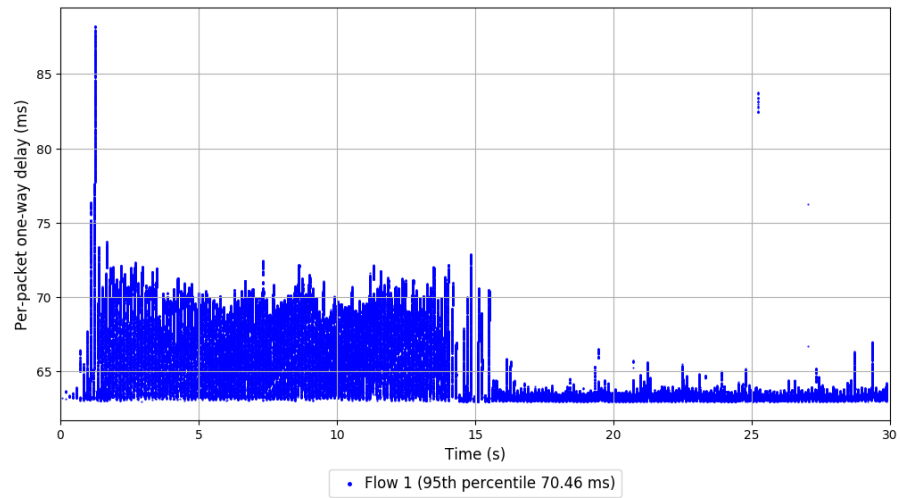
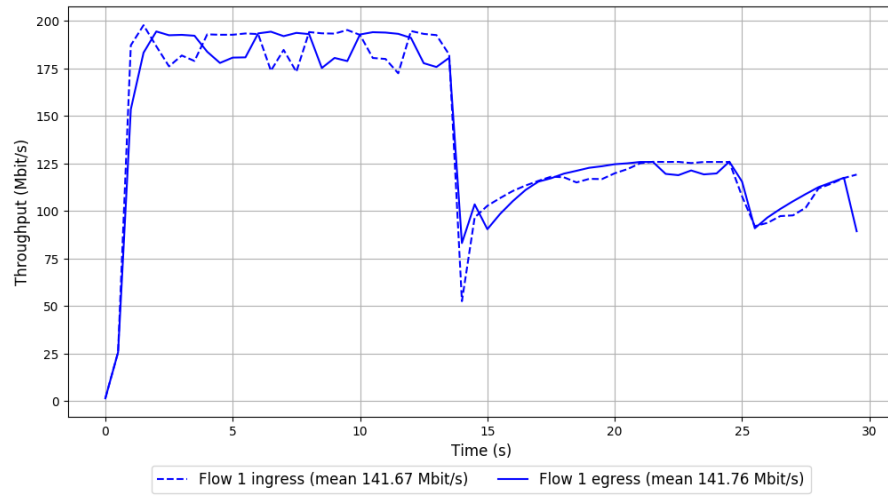
-- Flow 1:

Average throughput: 141.76 Mbit/s

95th percentile per-packet one-way delay: 70.456 ms

Loss rate: 0.36%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-13 13:22:06

End at: 2018-02-13 13:22:36

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.63 Mbit/s

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

Loss rate: 0.53%

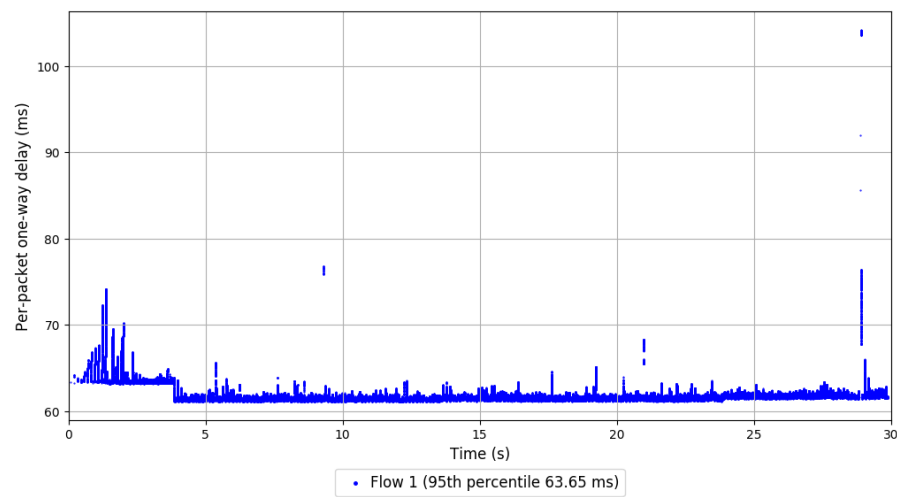
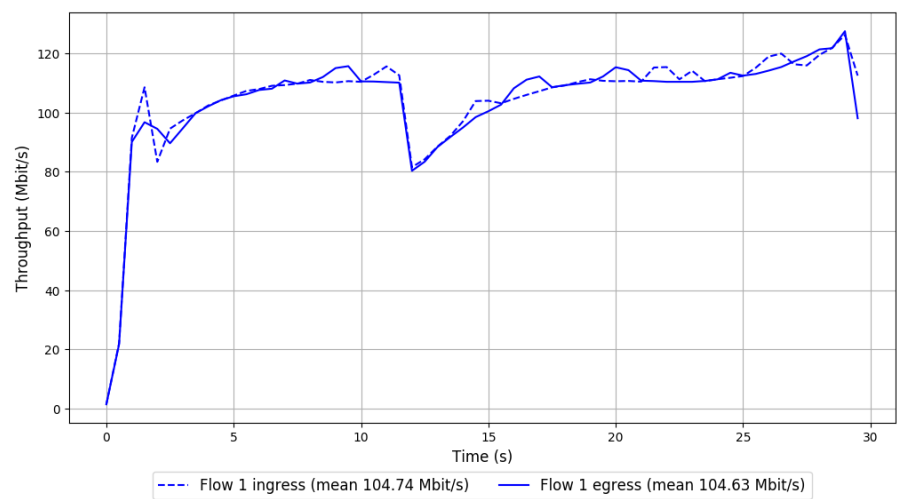
-- Flow 1:

Average throughput: 104.63 Mbit/s

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

Loss rate: 0.53%

Run 10: Report of TCP Cubic — Data Link

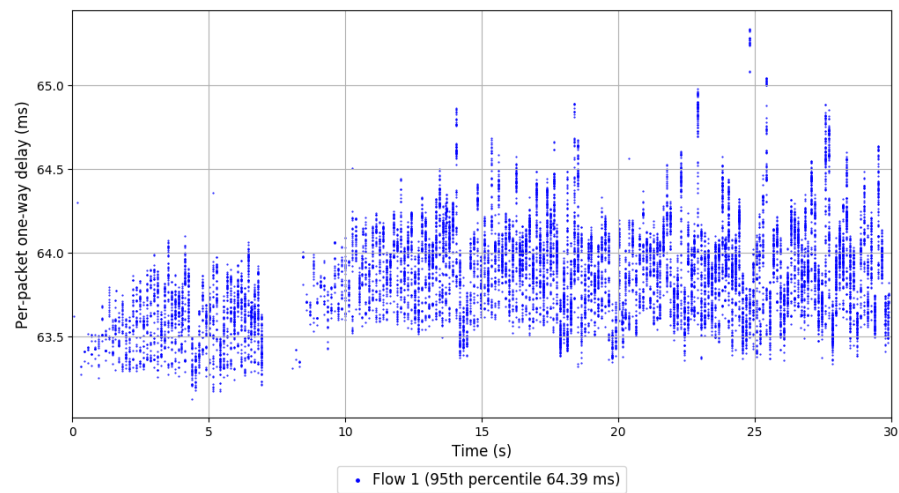
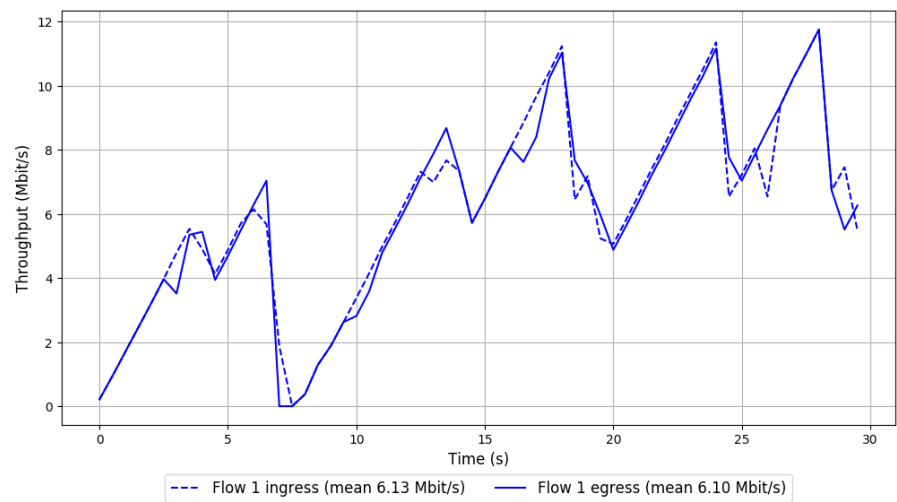


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-13 11:14:41
End at: 2018-02-13 11:15:11

# Below is generated by plot.py at 2018-02-13 16:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 64.391 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 64.391 ms
Loss rate: 0.83%
```

Run 1: Report of LEDBAT — Data Link

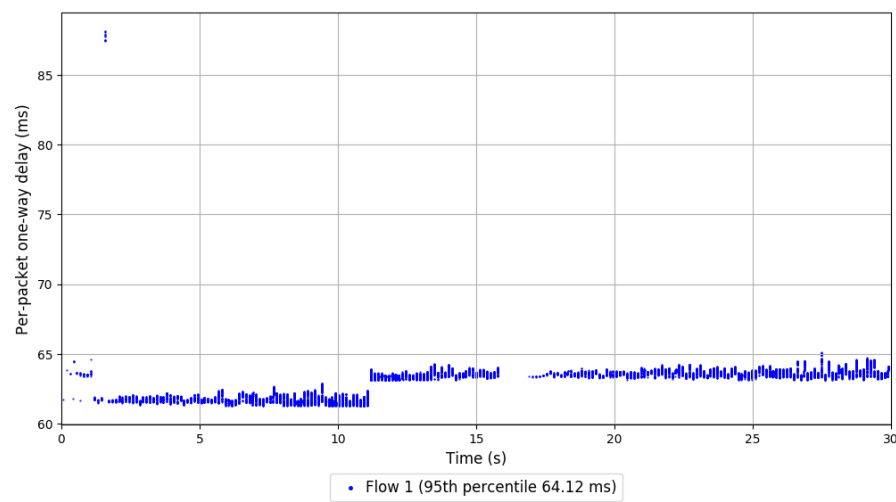
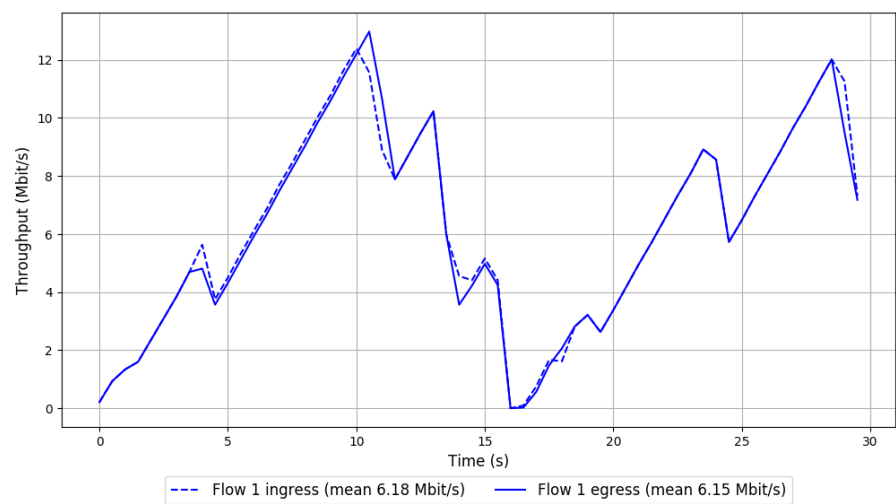


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-13 11:29:29
End at: 2018-02-13 11:29:59

# Below is generated by plot.py at 2018-02-13 16:21:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 64.119 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 6.15 Mbit/s
95th percentile per-packet one-way delay: 64.119 ms
Loss rate: 0.92%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-13 11:44:19

End at: 2018-02-13 11:44:49

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 64.925 ms

Loss rate: 0.81%

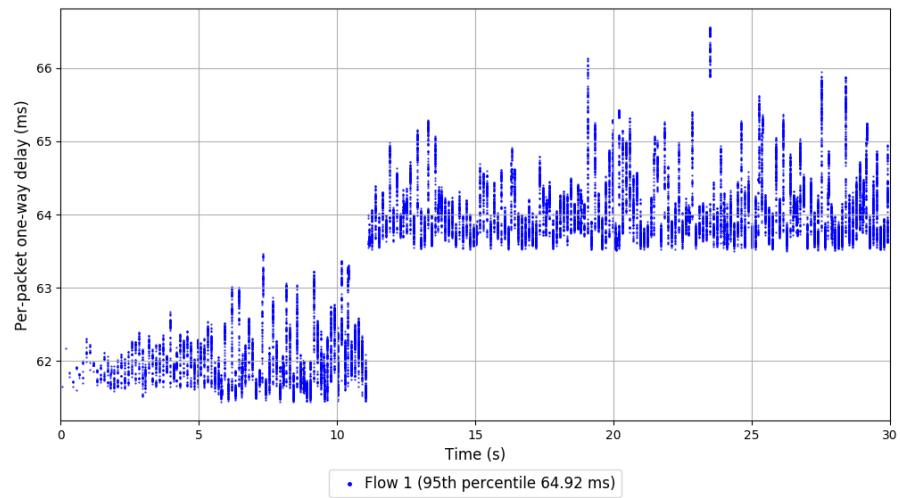
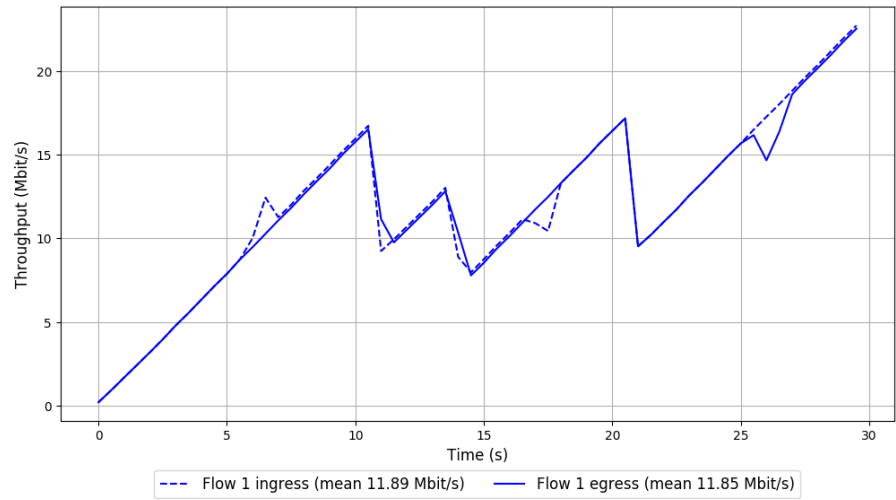
-- Flow 1:

Average throughput: 11.85 Mbit/s

95th percentile per-packet one-way delay: 64.925 ms

Loss rate: 0.81%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-13 11:59:10

End at: 2018-02-13 11:59:40

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 62.838 ms

Loss rate: 0.35%

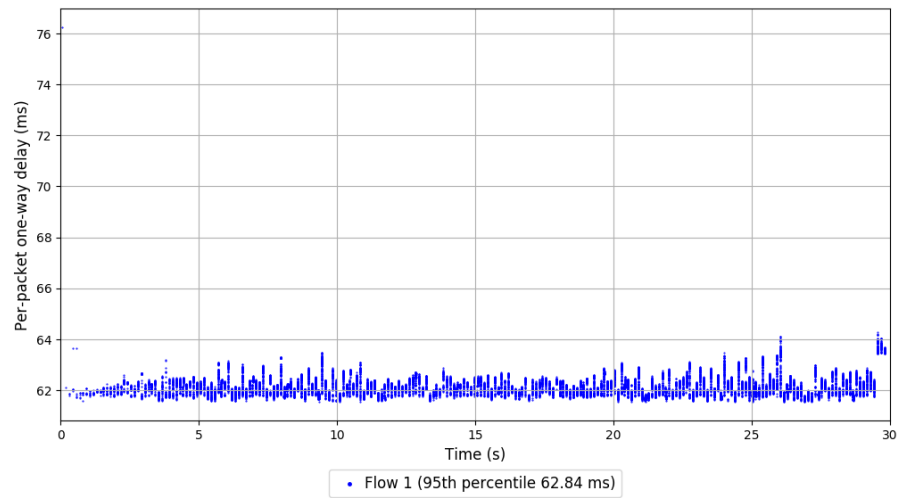
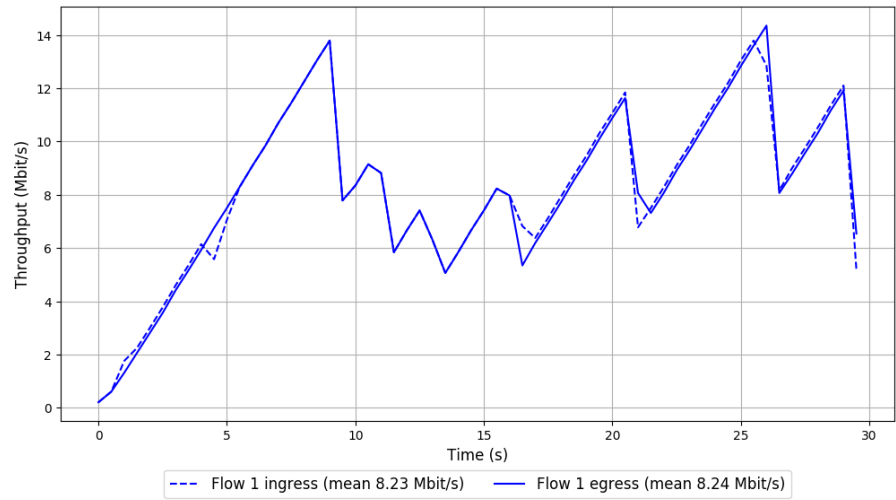
-- Flow 1:

Average throughput: 8.24 Mbit/s

95th percentile per-packet one-way delay: 62.838 ms

Loss rate: 0.35%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-13 12:13:46

End at: 2018-02-13 12:14:16

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 64.392 ms

Loss rate: 0.58%

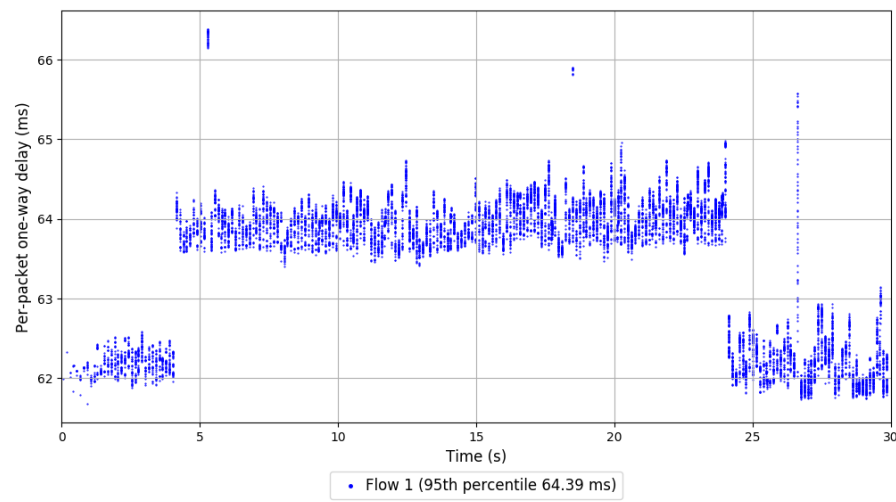
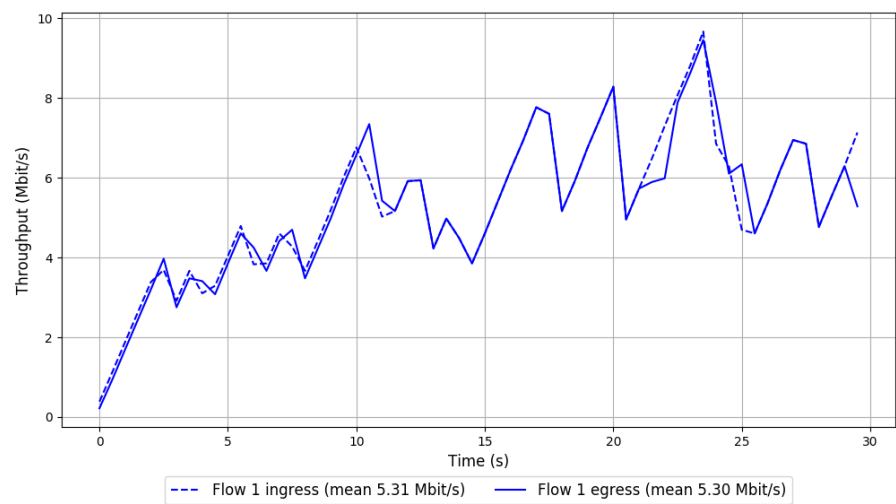
-- Flow 1:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 64.392 ms

Loss rate: 0.58%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-13 12:28:11

End at: 2018-02-13 12:28:41

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 64.341 ms

Loss rate: 0.63%

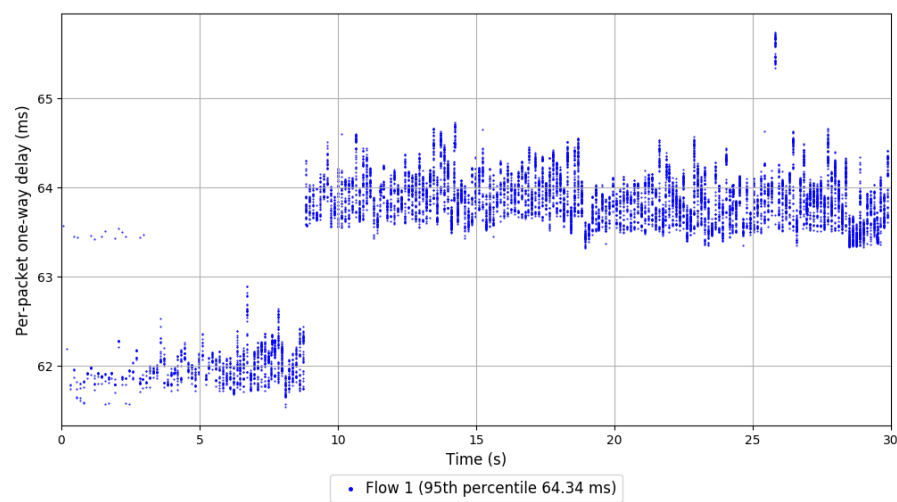
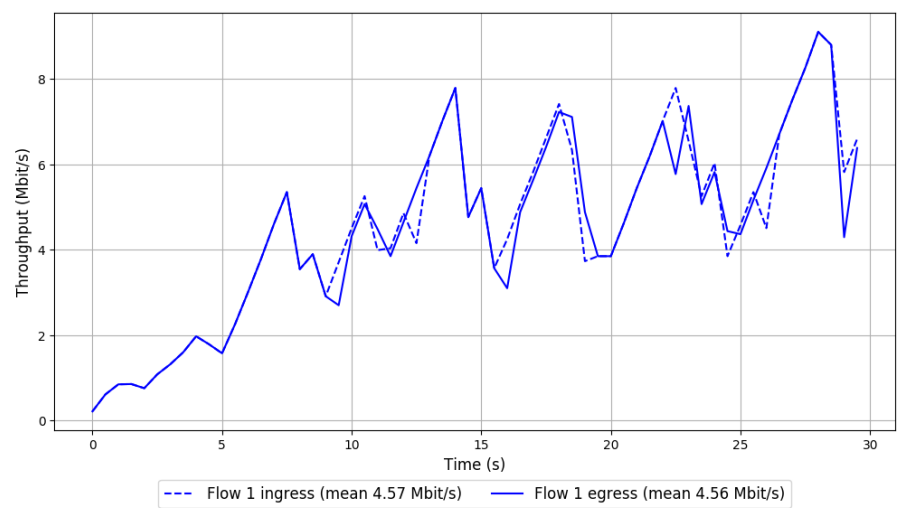
-- Flow 1:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 64.341 ms

Loss rate: 0.63%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-13 12:43:02

End at: 2018-02-13 12:43:32

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 64.620 ms

Loss rate: 0.80%

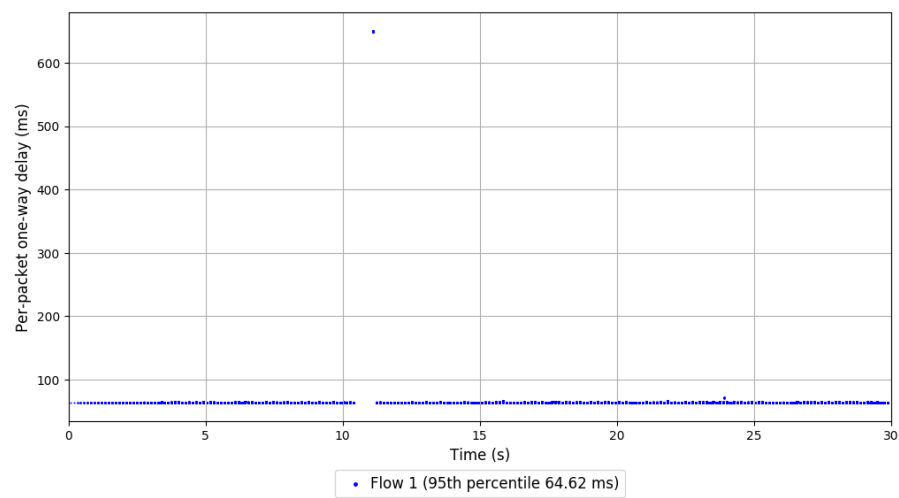
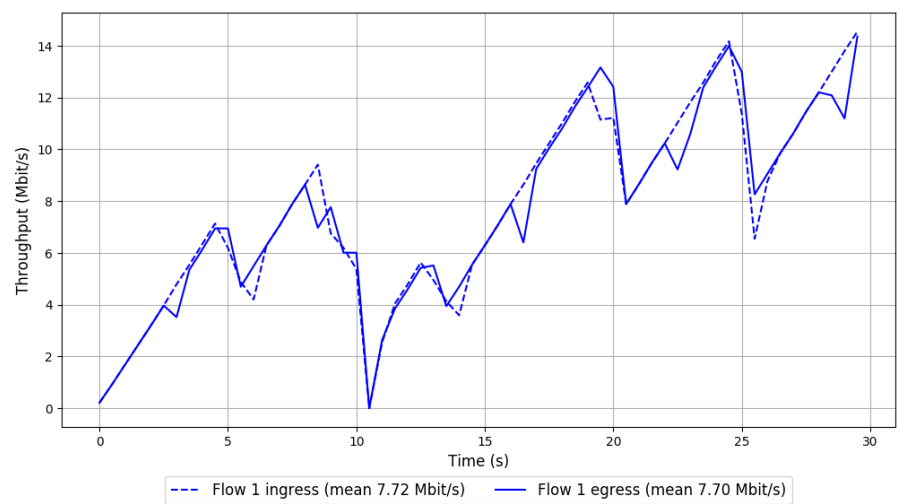
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 64.620 ms

Loss rate: 0.80%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-13 12:57:49

End at: 2018-02-13 12:58:19

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 64.397 ms

Loss rate: 0.71%

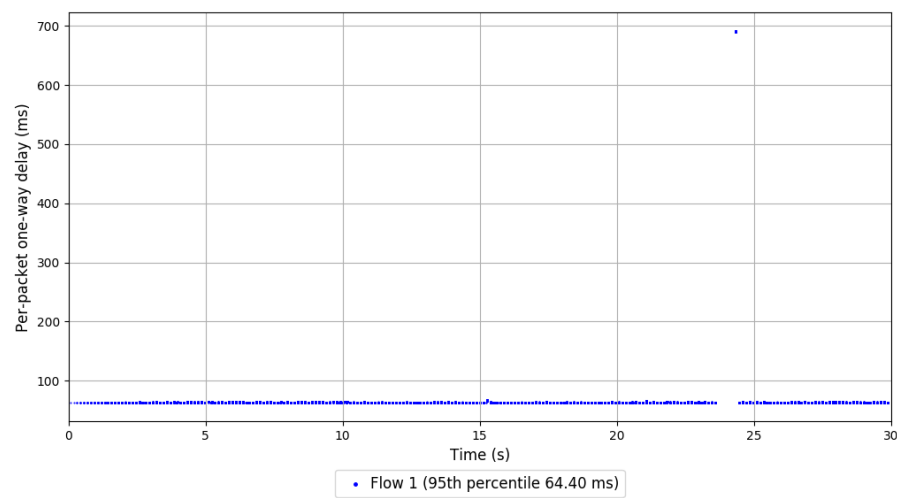
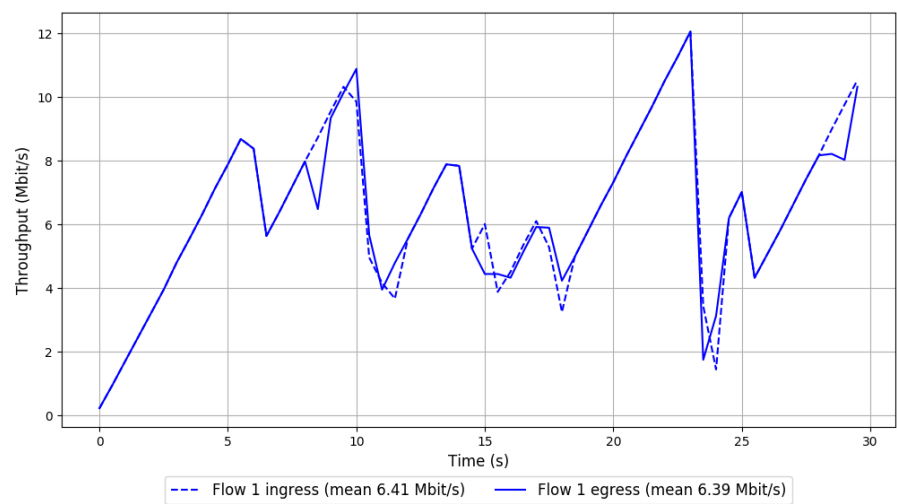
-- Flow 1:

Average throughput: 6.39 Mbit/s

95th percentile per-packet one-way delay: 64.397 ms

Loss rate: 0.71%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-13 13:12:40

End at: 2018-02-13 13:13:10

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 64.147 ms

Loss rate: 0.73%

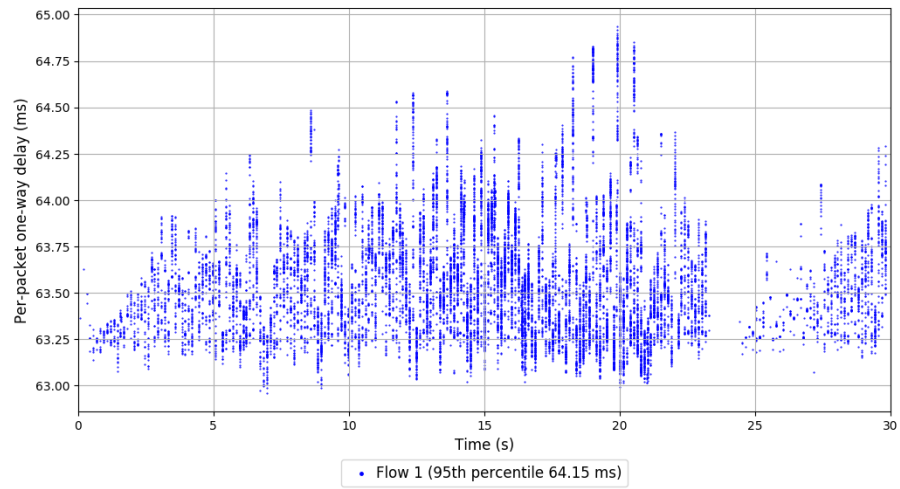
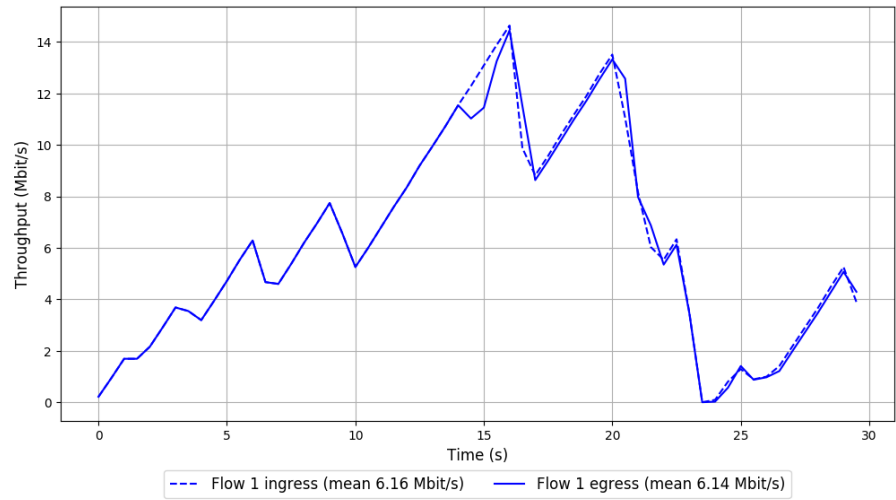
-- Flow 1:

Average throughput: 6.14 Mbit/s

95th percentile per-packet one-way delay: 64.147 ms

Loss rate: 0.73%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-13 13:27:05

End at: 2018-02-13 13:27:35

Below is generated by plot.py at 2018-02-13 16:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 62.473 ms

Loss rate: 0.57%

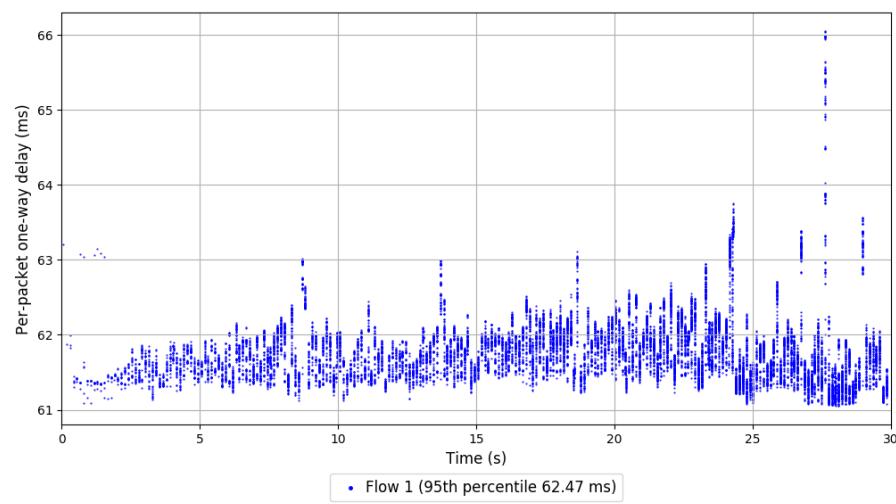
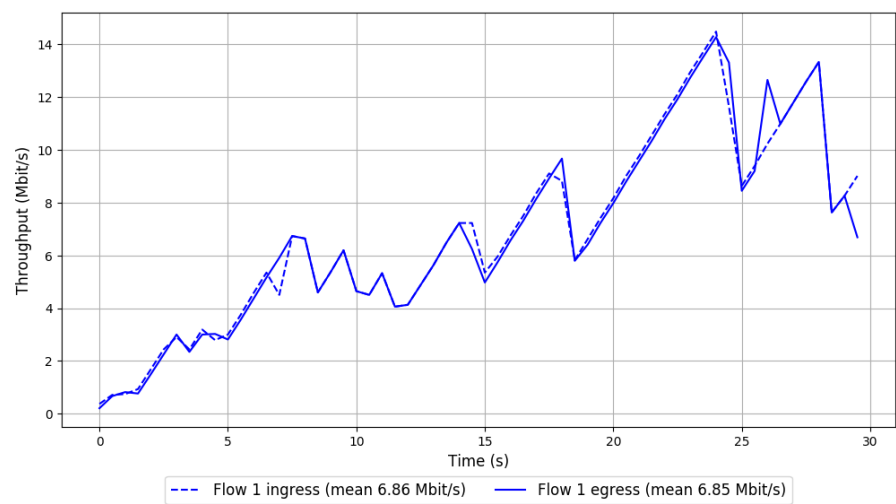
-- Flow 1:

Average throughput: 6.85 Mbit/s

95th percentile per-packet one-way delay: 62.473 ms

Loss rate: 0.57%

Run 10: Report of LEDBAT — Data Link

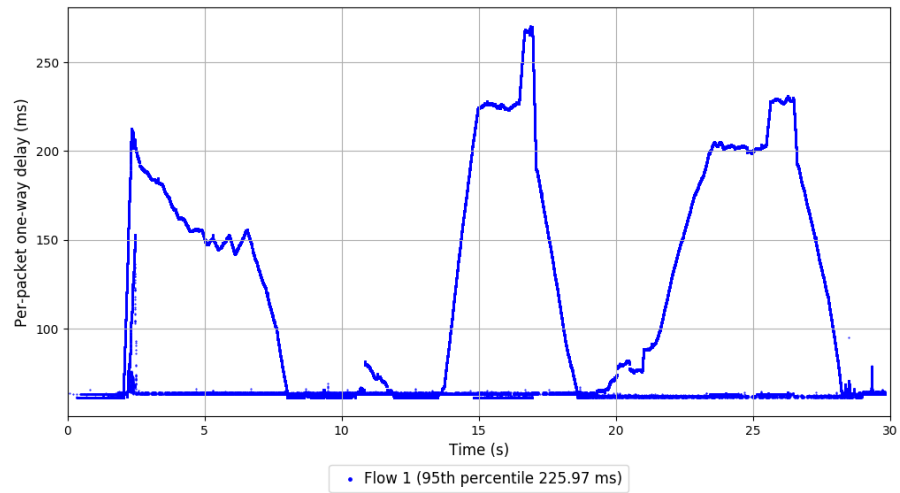
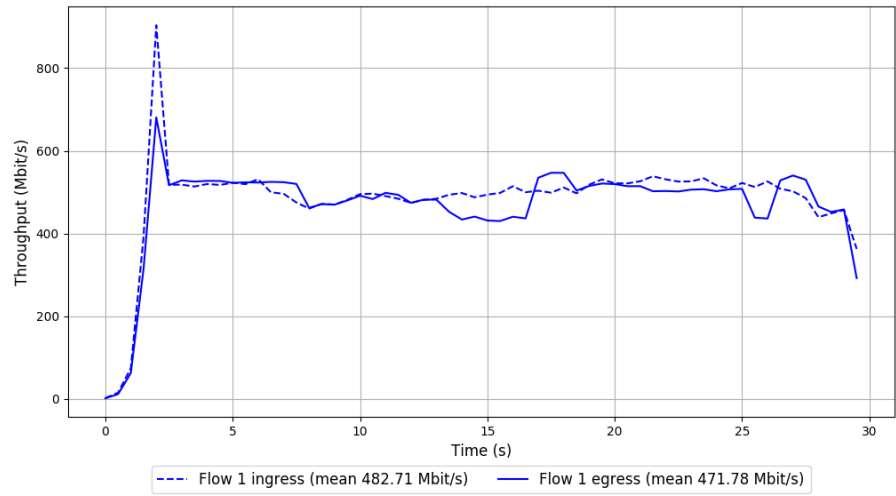


```
Run 1: Statistics of PCC

Start at: 2018-02-13 11:12:41
End at: 2018-02-13 11:13:11

# Below is generated by plot.py at 2018-02-13 16:27:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 471.78 Mbit/s
95th percentile per-packet one-way delay: 225.974 ms
Loss rate: 2.72%
-- Flow 1:
Average throughput: 471.78 Mbit/s
95th percentile per-packet one-way delay: 225.974 ms
Loss rate: 2.72%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-13 11:27:29

End at: 2018-02-13 11:27:59

Below is generated by plot.py at 2018-02-13 16:27:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.11 Mbit/s

95th percentile per-packet one-way delay: 71.778 ms

Loss rate: 0.57%

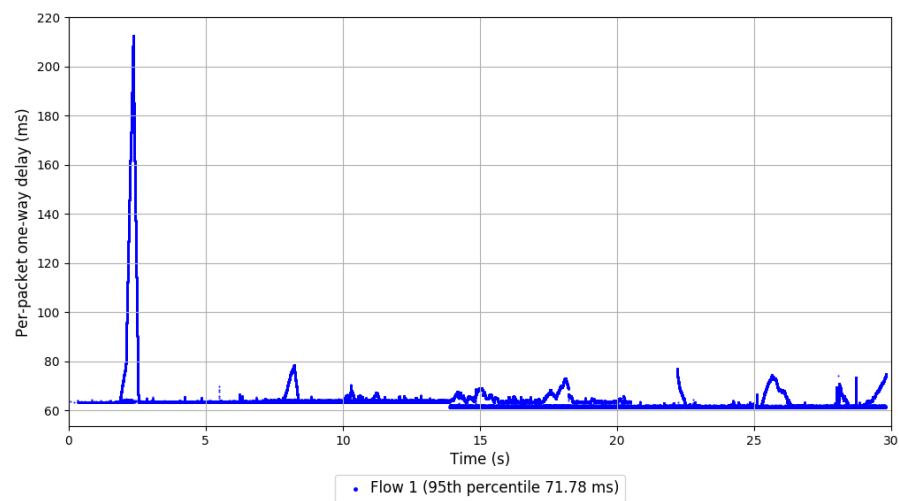
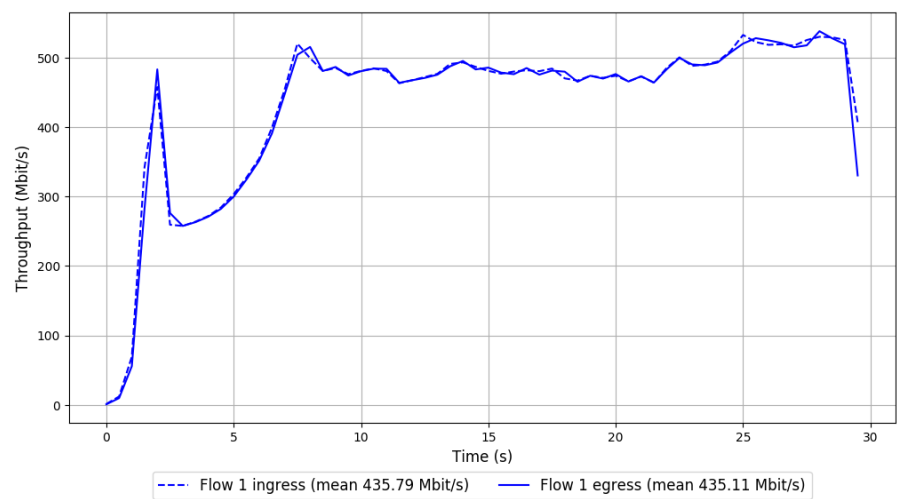
-- Flow 1:

Average throughput: 435.11 Mbit/s

95th percentile per-packet one-way delay: 71.778 ms

Loss rate: 0.57%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-13 11:42:22

End at: 2018-02-13 11:42:52

Below is generated by plot.py at 2018-02-13 16:27:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.18 Mbit/s

95th percentile per-packet one-way delay: 228.716 ms

Loss rate: 5.24%

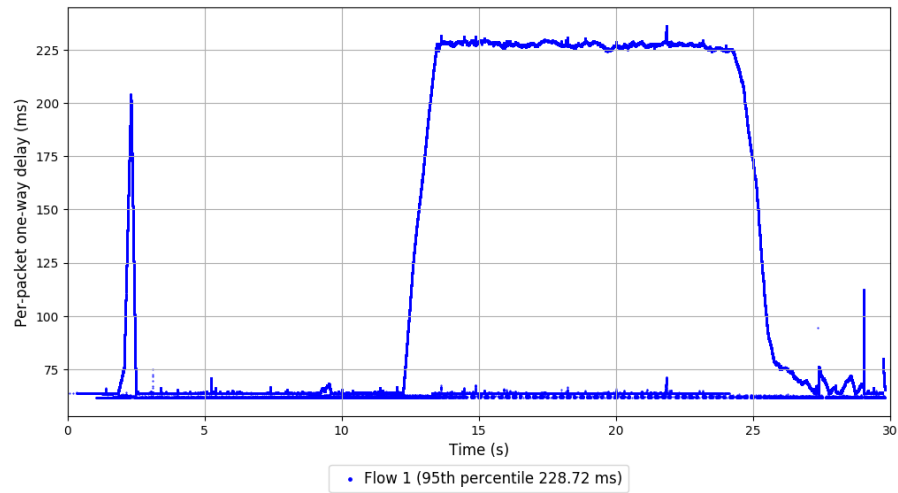
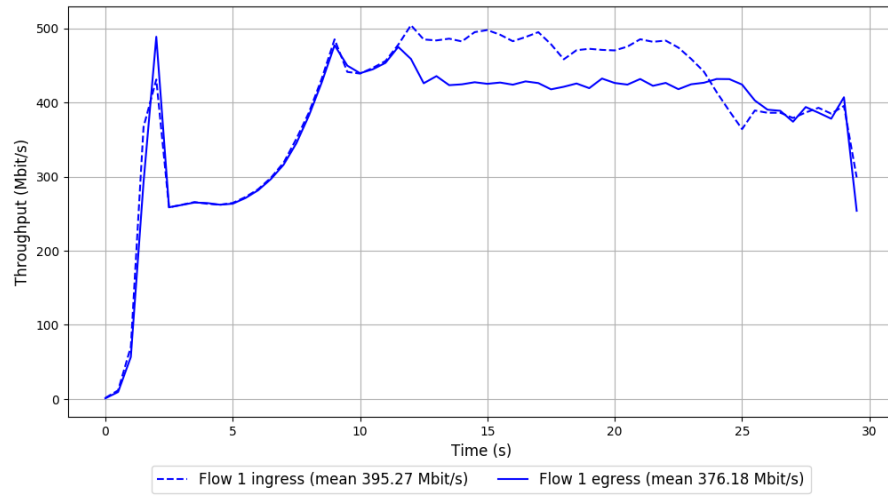
-- Flow 1:

Average throughput: 376.18 Mbit/s

95th percentile per-packet one-way delay: 228.716 ms

Loss rate: 5.24%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-13 11:57:10

End at: 2018-02-13 11:57:40

Below is generated by plot.py at 2018-02-13 16:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.29 Mbit/s

95th percentile per-packet one-way delay: 206.684 ms

Loss rate: 1.56%

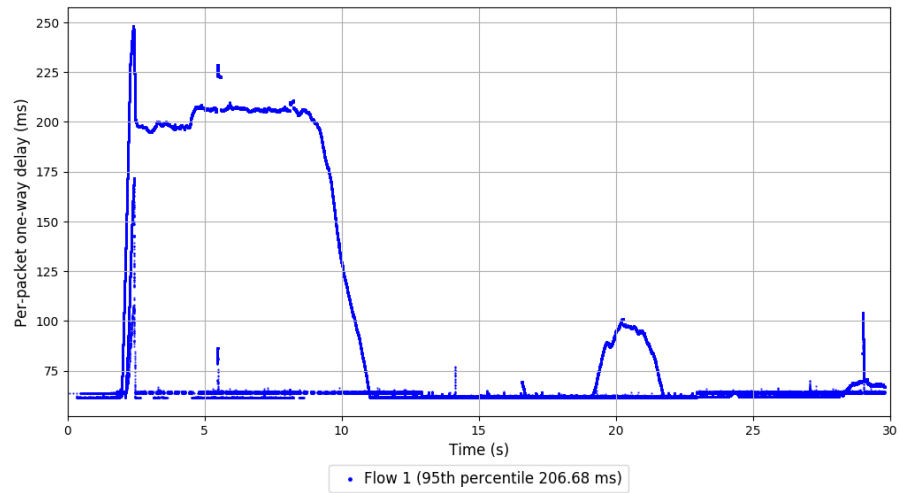
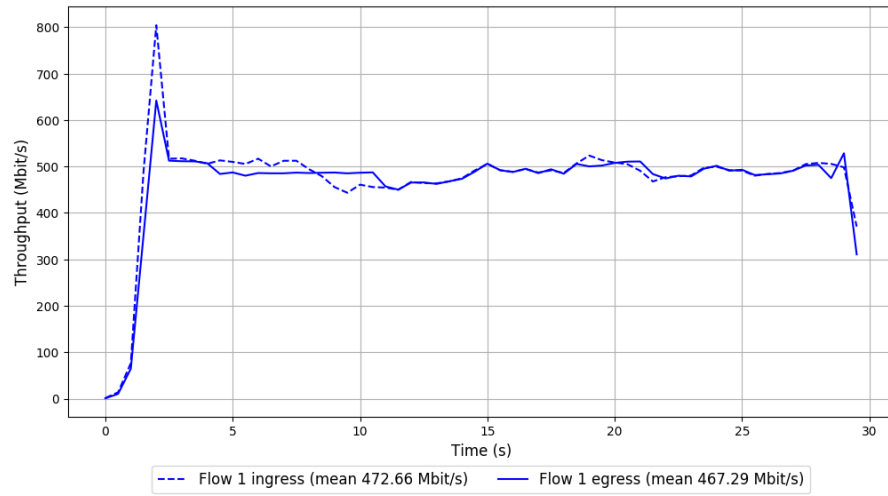
-- Flow 1:

Average throughput: 467.29 Mbit/s

95th percentile per-packet one-way delay: 206.684 ms

Loss rate: 1.56%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-13 12:11:48

End at: 2018-02-13 12:12:18

Below is generated by plot.py at 2018-02-13 16:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.45 Mbit/s

95th percentile per-packet one-way delay: 228.757 ms

Loss rate: 2.50%

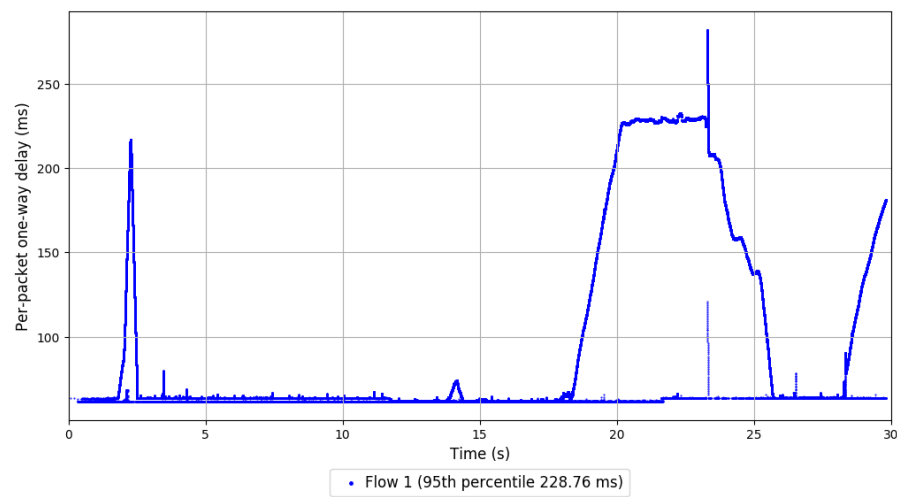
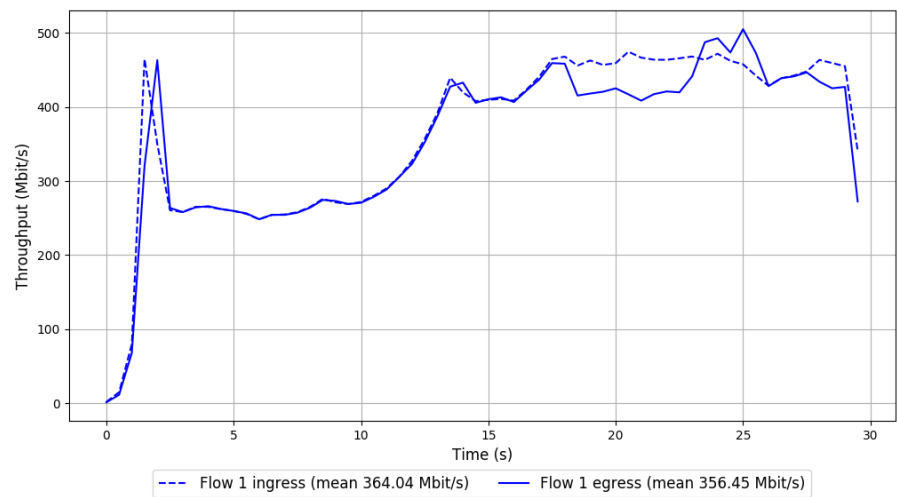
-- Flow 1:

Average throughput: 356.45 Mbit/s

95th percentile per-packet one-way delay: 228.757 ms

Loss rate: 2.50%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-13 12:26:14

End at: 2018-02-13 12:26:44

Below is generated by plot.py at 2018-02-13 16:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.10 Mbit/s

95th percentile per-packet one-way delay: 144.643 ms

Loss rate: 0.58%

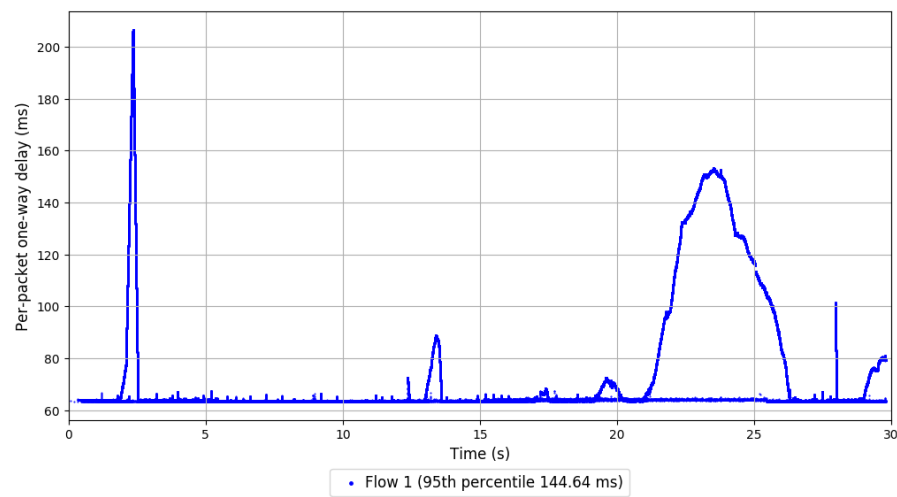
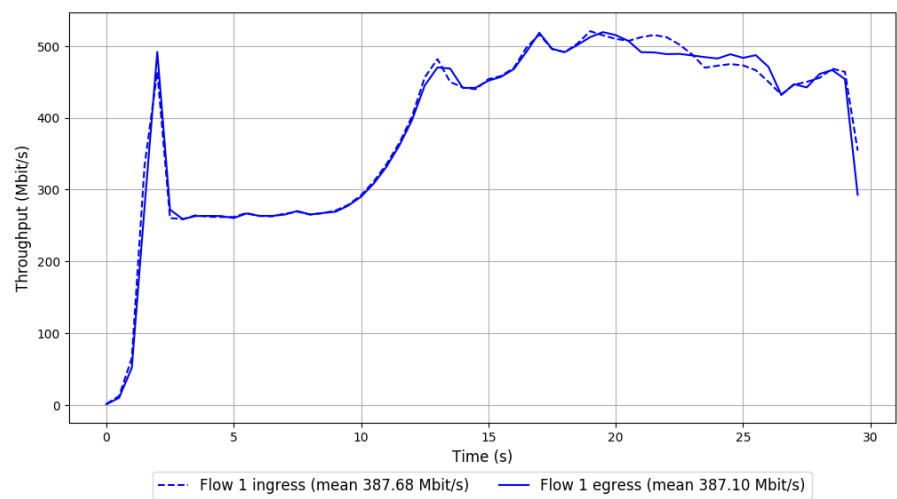
-- Flow 1:

Average throughput: 387.10 Mbit/s

95th percentile per-packet one-way delay: 144.643 ms

Loss rate: 0.58%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-13 12:41:05

End at: 2018-02-13 12:41:35

Below is generated by plot.py at 2018-02-13 16:27:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.31 Mbit/s

95th percentile per-packet one-way delay: 205.992 ms

Loss rate: 1.91%

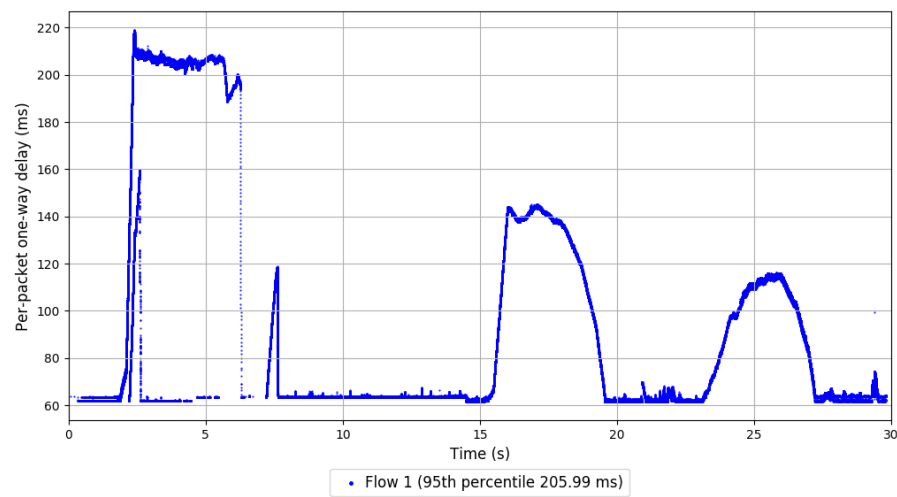
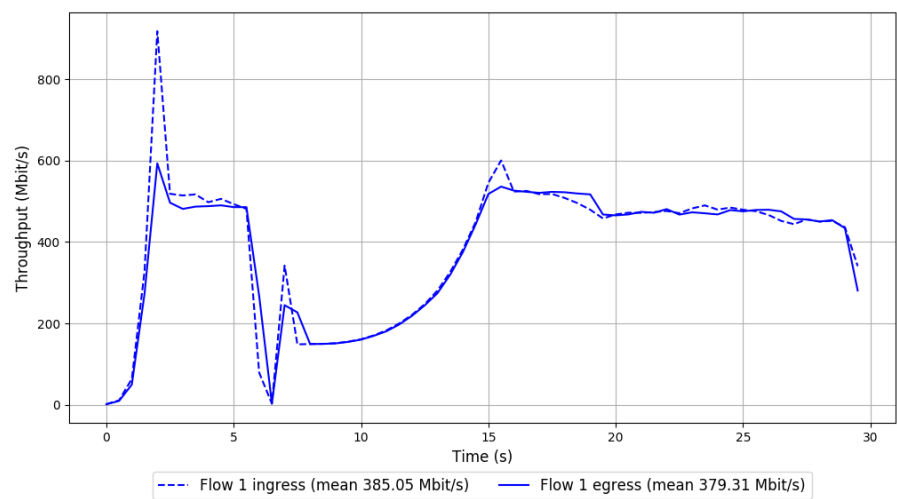
-- Flow 1:

Average throughput: 379.31 Mbit/s

95th percentile per-packet one-way delay: 205.992 ms

Loss rate: 1.91%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-13 12:55:52

End at: 2018-02-13 12:56:22

Below is generated by plot.py at 2018-02-13 16:28:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.20 Mbit/s

95th percentile per-packet one-way delay: 222.874 ms

Loss rate: 2.74%

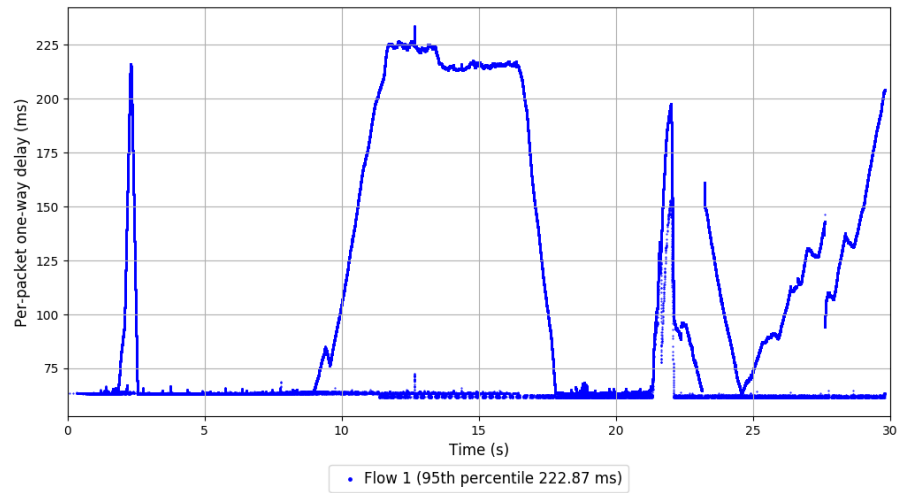
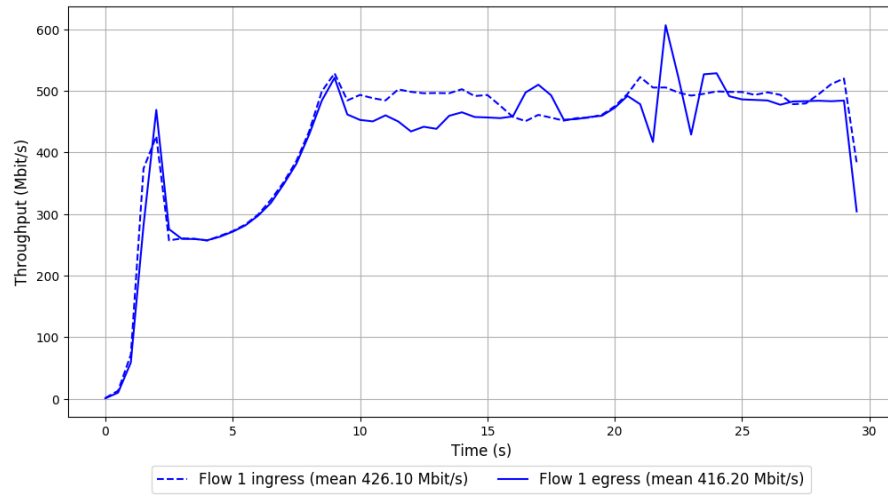
-- Flow 1:

Average throughput: 416.20 Mbit/s

95th percentile per-packet one-way delay: 222.874 ms

Loss rate: 2.74%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-13 13:10:41

End at: 2018-02-13 13:11:11

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.18 Mbit/s

95th percentile per-packet one-way delay: 198.458 ms

Loss rate: 0.98%

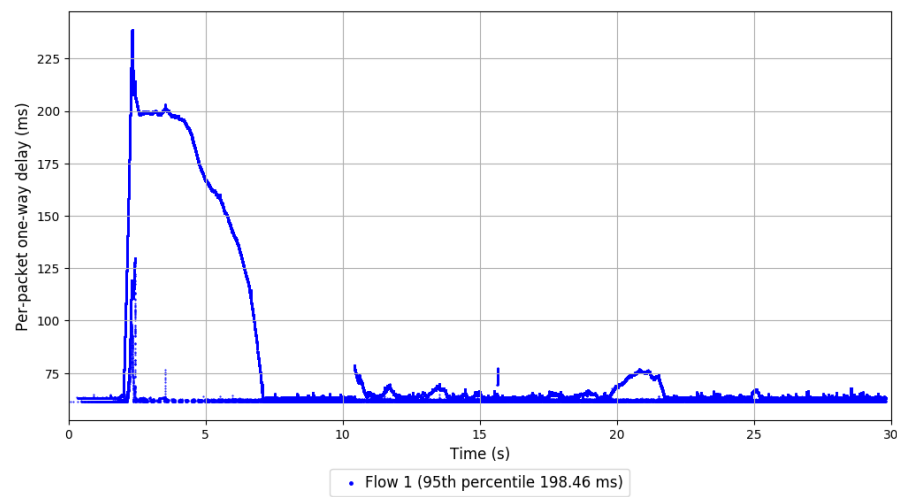
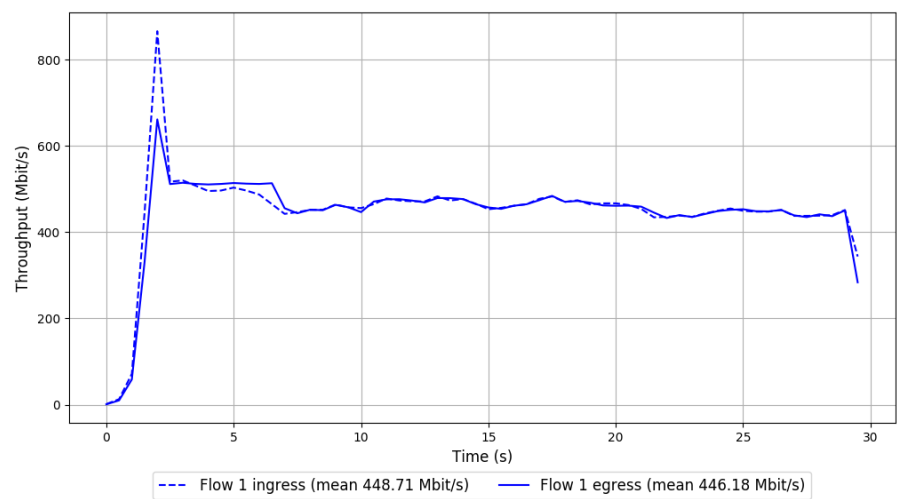
-- Flow 1:

Average throughput: 446.18 Mbit/s

95th percentile per-packet one-way delay: 198.458 ms

Loss rate: 0.98%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-13 13:25:11

End at: 2018-02-13 13:25:41

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.89 Mbit/s

95th percentile per-packet one-way delay: 227.362 ms

Loss rate: 5.84%

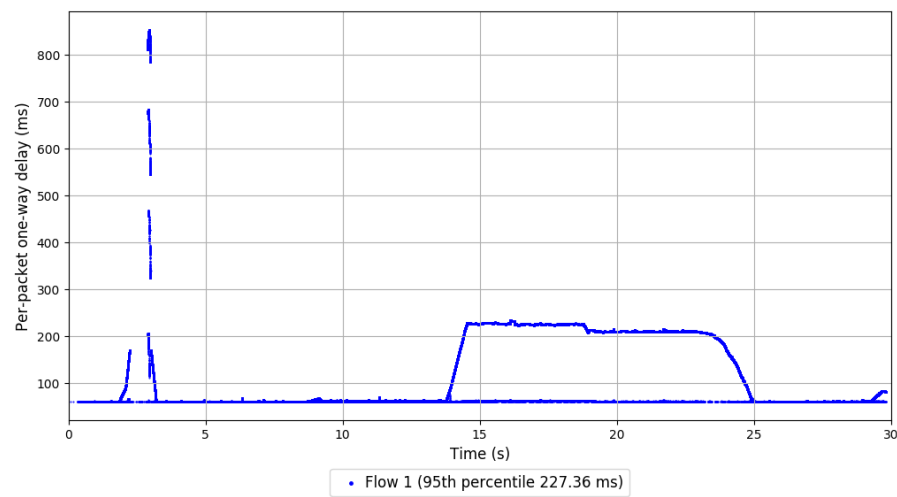
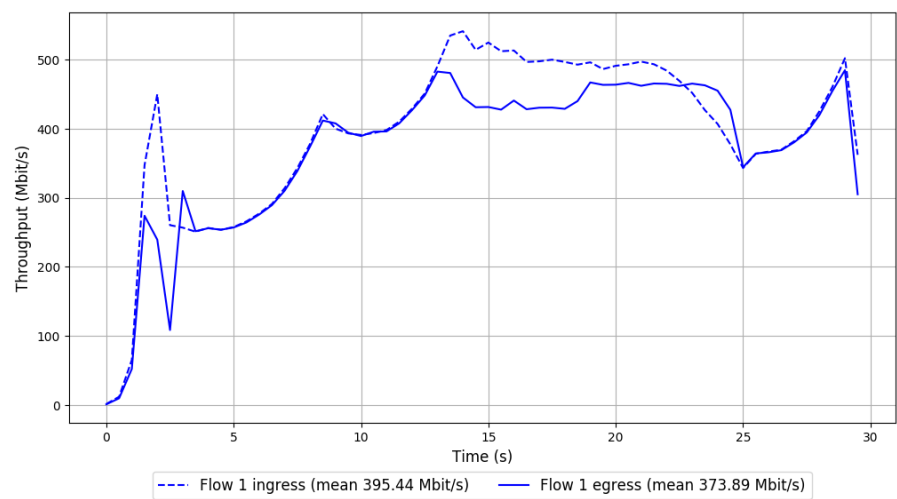
-- Flow 1:

Average throughput: 373.89 Mbit/s

95th percentile per-packet one-way delay: 227.362 ms

Loss rate: 5.84%

Run 10: Report of PCC — Data Link

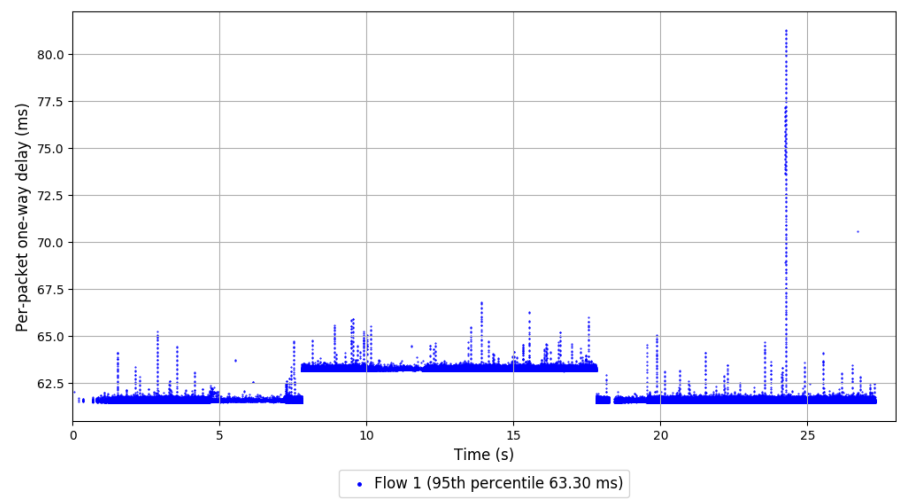
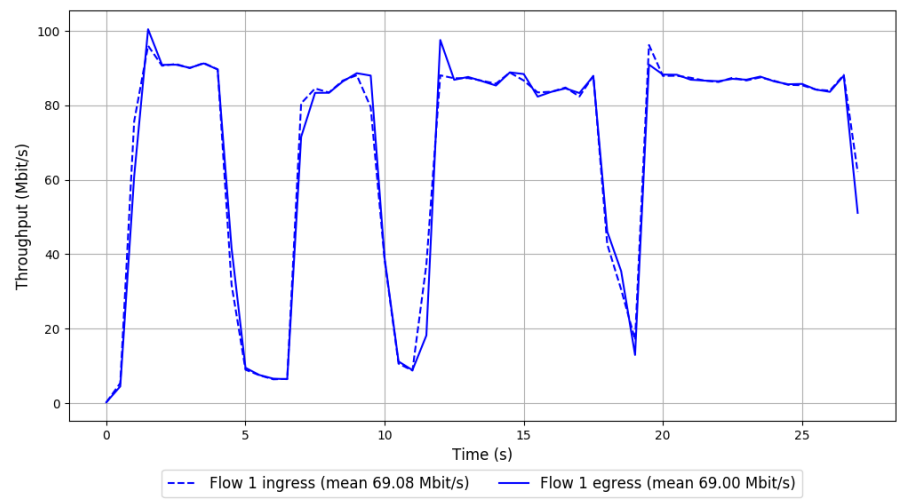


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-13 11:15:19
End at: 2018-02-13 11:15:49

# Below is generated by plot.py at 2018-02-13 16:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.00 Mbit/s
95th percentile per-packet one-way delay: 63.303 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 69.00 Mbit/s
95th percentile per-packet one-way delay: 63.303 ms
Loss rate: 0.57%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-13 11:30:07

End at: 2018-02-13 11:30:37

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 63.613 ms

Loss rate: 0.53%

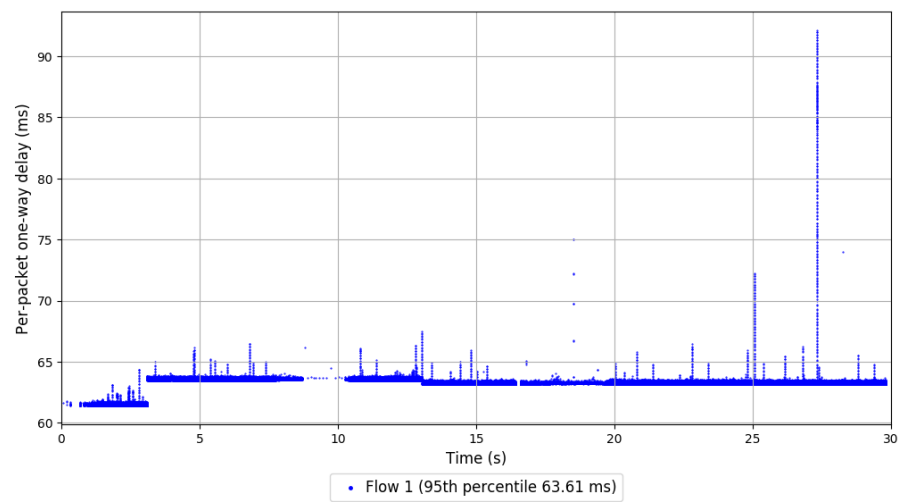
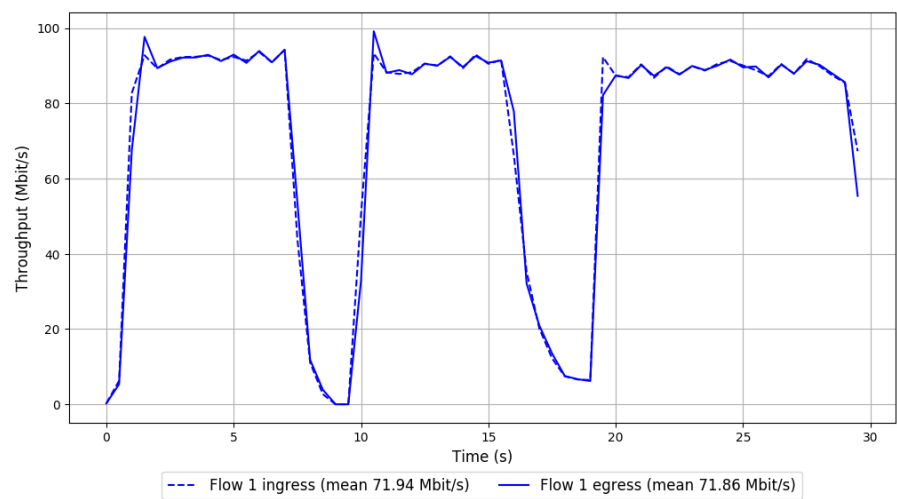
-- Flow 1:

Average throughput: 71.86 Mbit/s

95th percentile per-packet one-way delay: 63.613 ms

Loss rate: 0.53%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-13 11:44:57

End at: 2018-02-13 11:45:27

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 61.841 ms

Loss rate: 0.52%

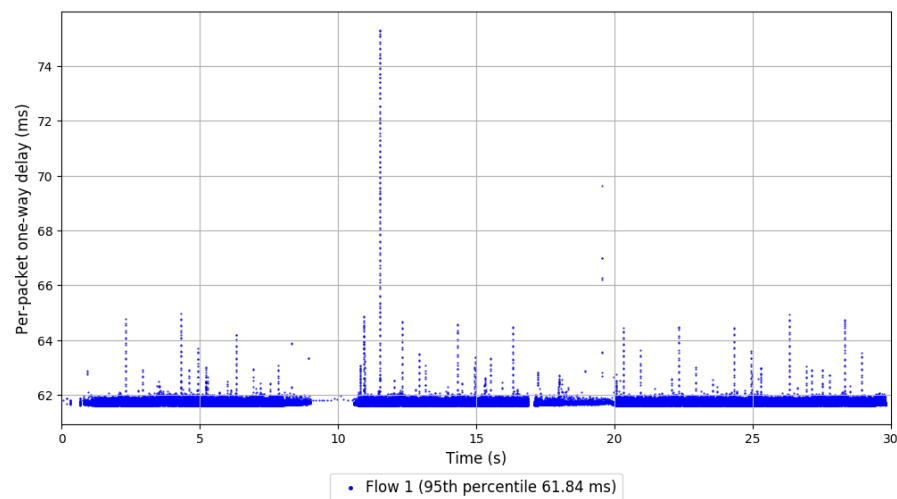
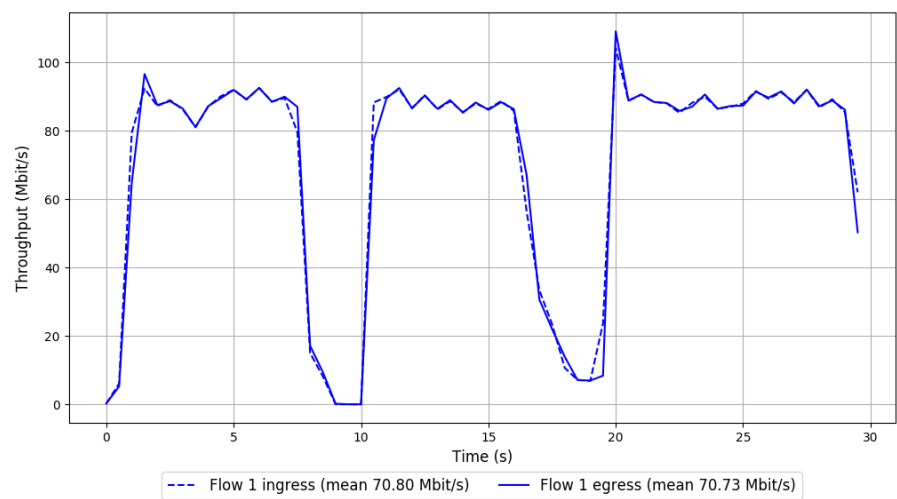
-- Flow 1:

Average throughput: 70.73 Mbit/s

95th percentile per-packet one-way delay: 61.841 ms

Loss rate: 0.52%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-13 11:59:49

End at: 2018-02-13 12:00:19

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.84 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 0.59%

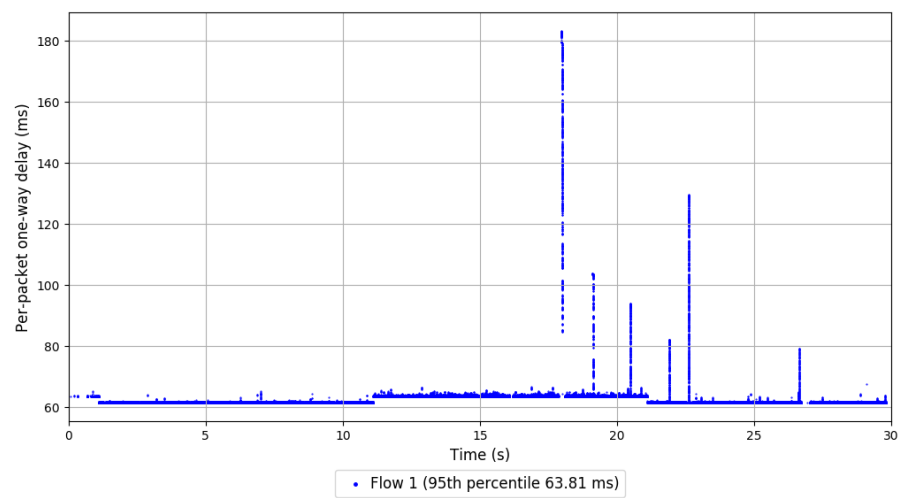
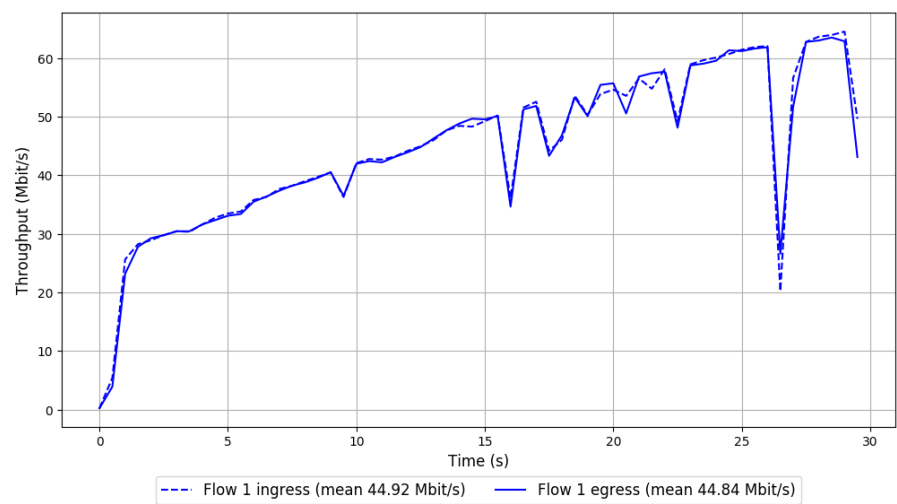
-- Flow 1:

Average throughput: 44.84 Mbit/s

95th percentile per-packet one-way delay: 63.806 ms

Loss rate: 0.59%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-13 12:14:24

End at: 2018-02-13 12:14:54

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 63.543 ms

Loss rate: 0.54%

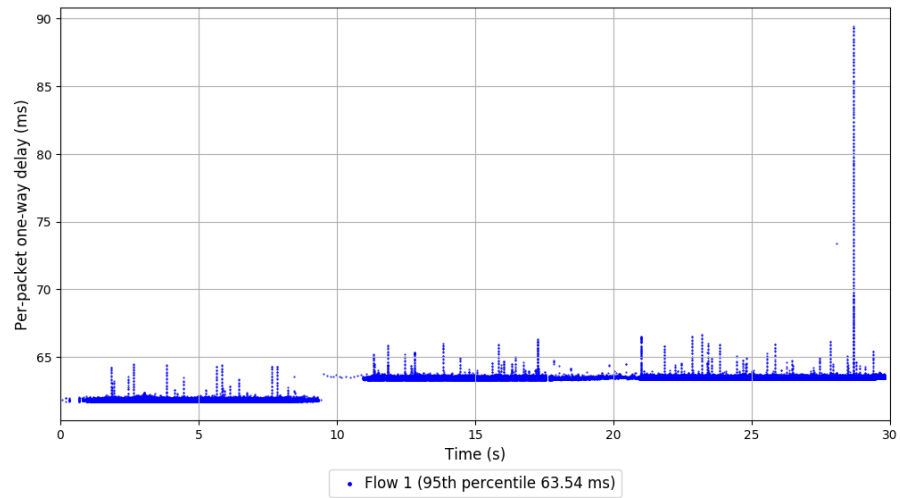
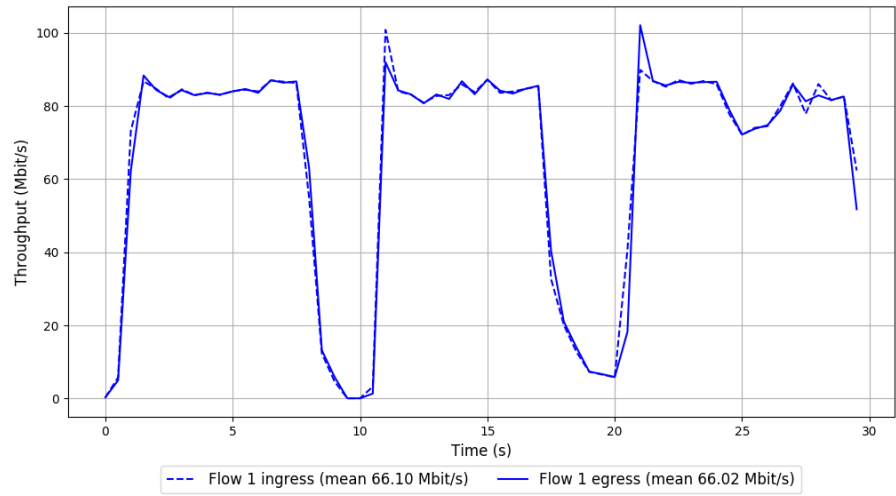
-- Flow 1:

Average throughput: 66.02 Mbit/s

95th percentile per-packet one-way delay: 63.543 ms

Loss rate: 0.54%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-13 12:28:49

End at: 2018-02-13 12:29:19

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.97 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.51%

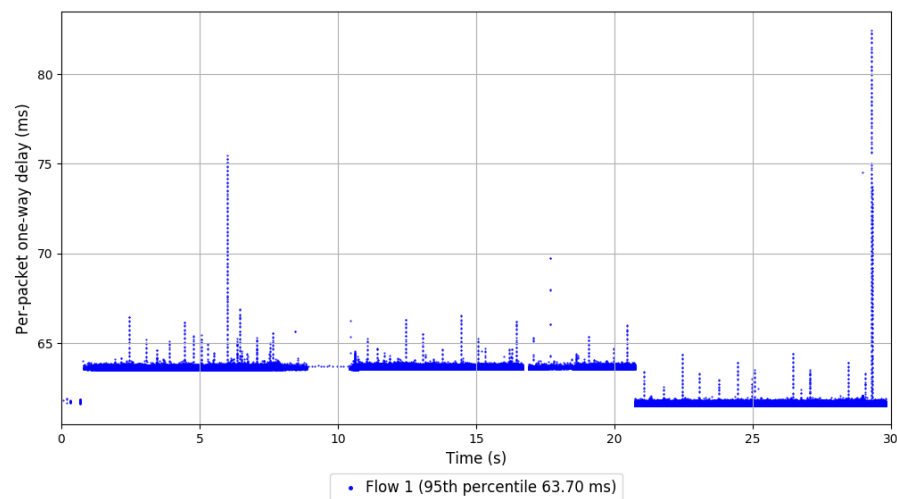
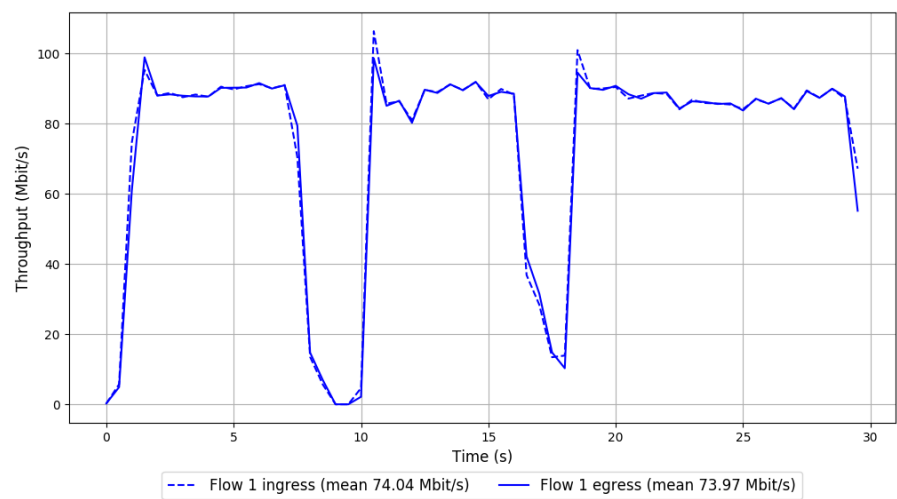
-- Flow 1:

Average throughput: 73.97 Mbit/s

95th percentile per-packet one-way delay: 63.699 ms

Loss rate: 0.51%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-13 12:43:41

End at: 2018-02-13 12:44:11

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 61.758 ms

Loss rate: 0.52%

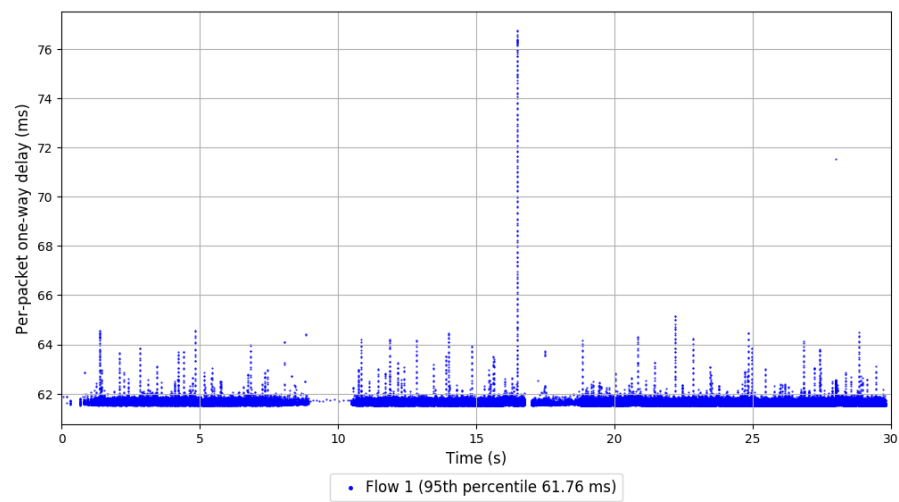
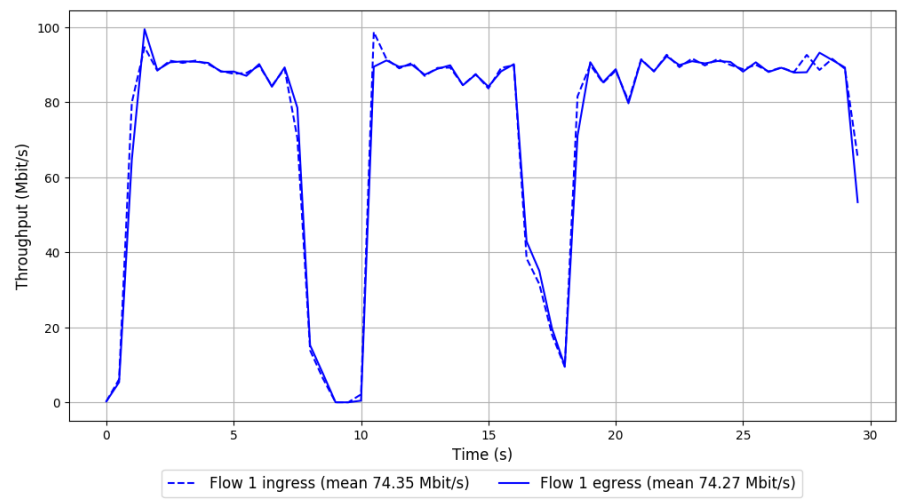
-- Flow 1:

Average throughput: 74.27 Mbit/s

95th percentile per-packet one-way delay: 61.758 ms

Loss rate: 0.52%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-13 12:58:27

End at: 2018-02-13 12:58:57

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.45 Mbit/s

95th percentile per-packet one-way delay: 63.336 ms

Loss rate: 0.56%

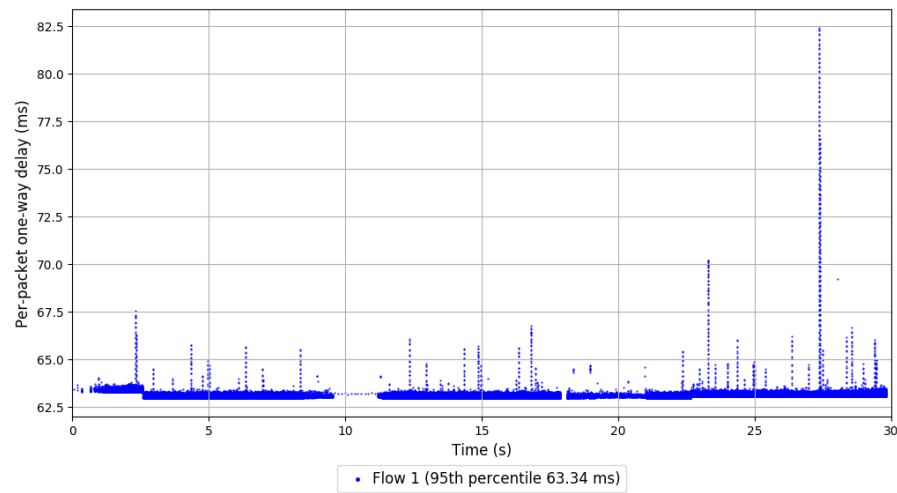
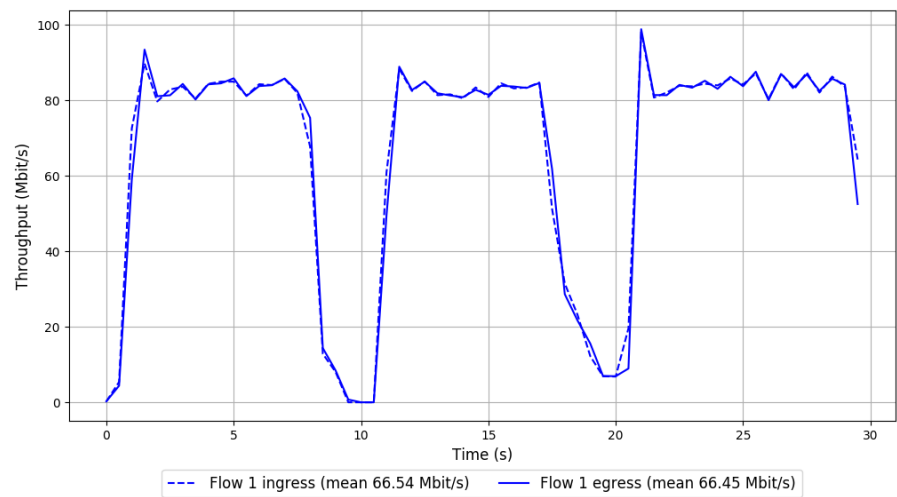
-- Flow 1:

Average throughput: 66.45 Mbit/s

95th percentile per-packet one-way delay: 63.336 ms

Loss rate: 0.56%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-13 13:13:18

End at: 2018-02-13 13:13:48

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 61.570 ms

Loss rate: 0.52%

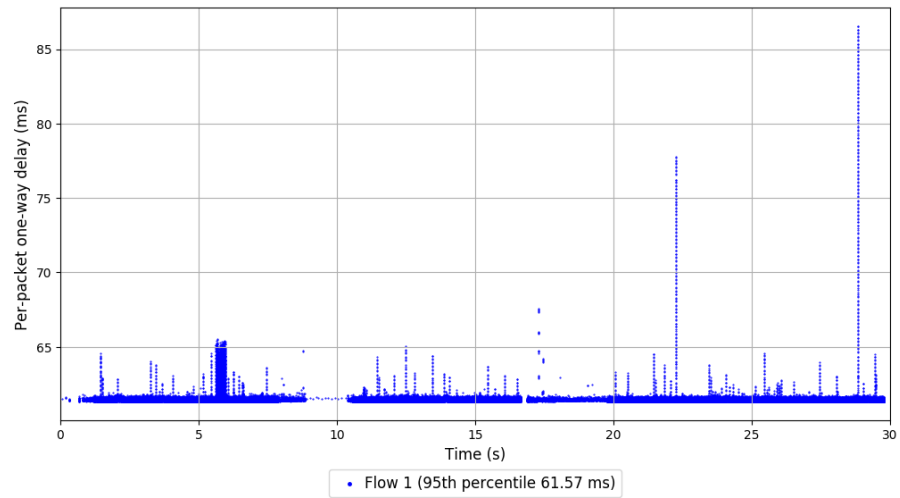
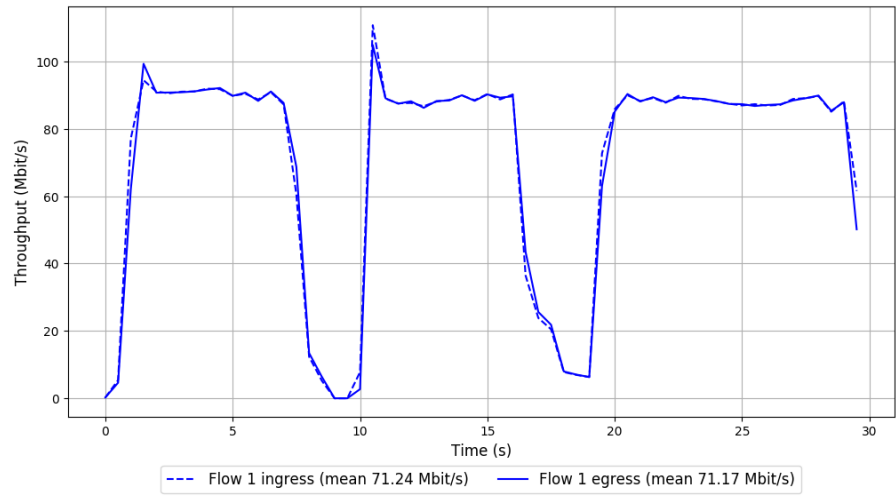
-- Flow 1:

Average throughput: 71.17 Mbit/s

95th percentile per-packet one-way delay: 61.570 ms

Loss rate: 0.52%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-13 13:27:43

End at: 2018-02-13 13:28:13

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.44 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.53%

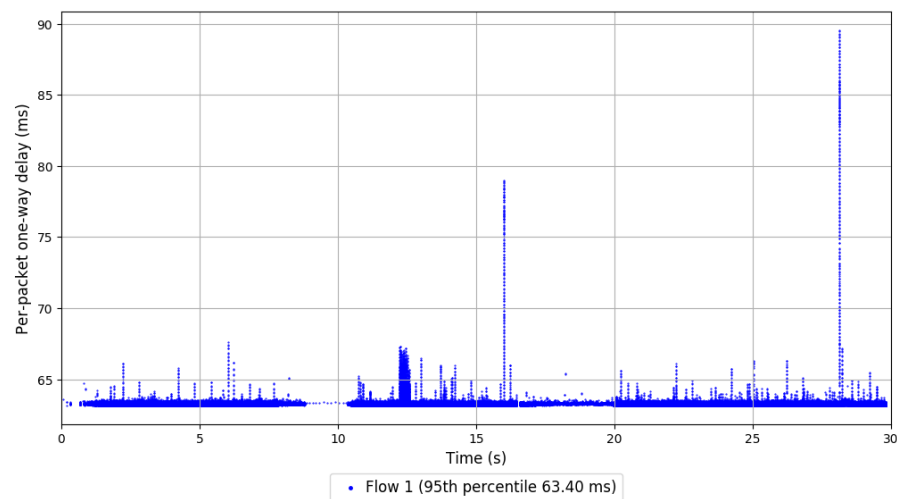
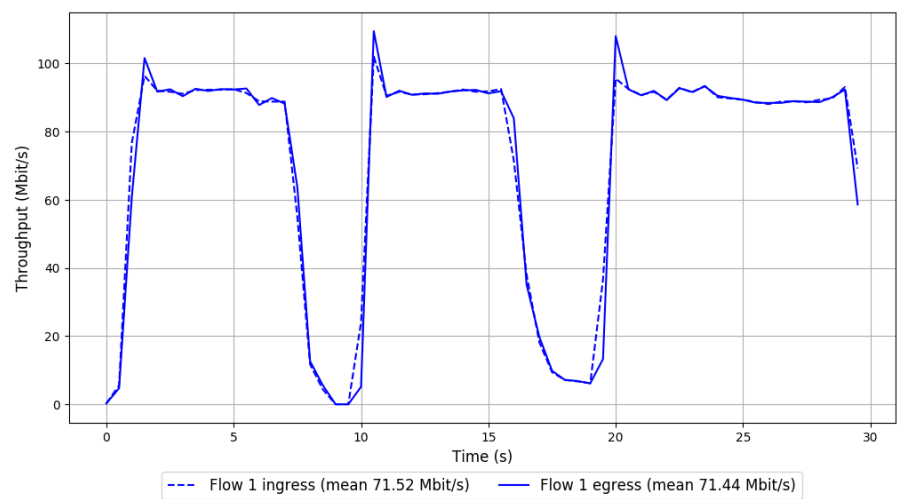
-- Flow 1:

Average throughput: 71.44 Mbit/s

95th percentile per-packet one-way delay: 63.403 ms

Loss rate: 0.53%

Run 10: Report of QUIC Cubic — Data Link

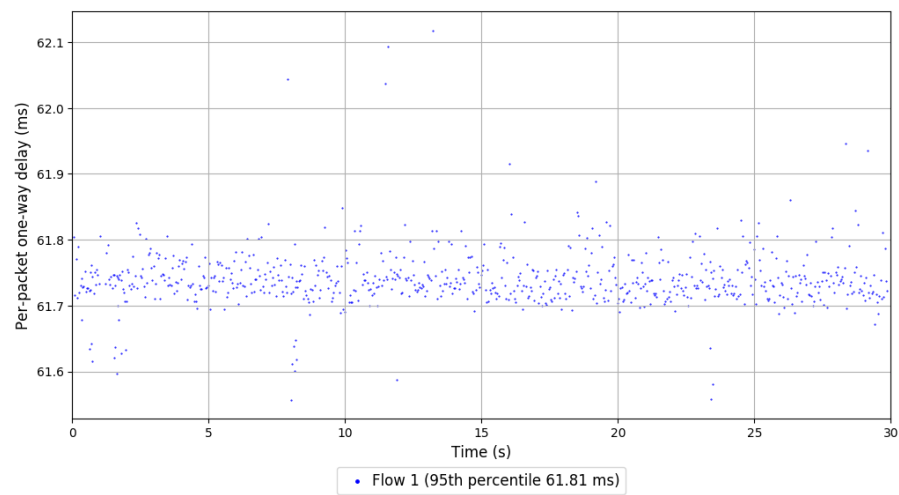
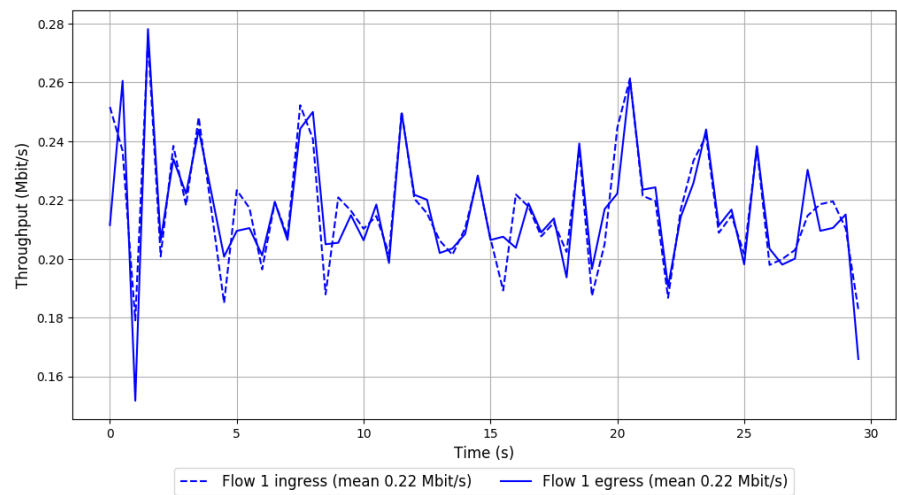


```
Run 1: Statistics of SCReAM

Start at: 2018-02-13 11:21:08
End at: 2018-02-13 11:21:38

# Below is generated by plot.py at 2018-02-13 16:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.807 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 61.807 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-13 11:35:46

End at: 2018-02-13 11:36:16

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.479 ms

Loss rate: 0.38%

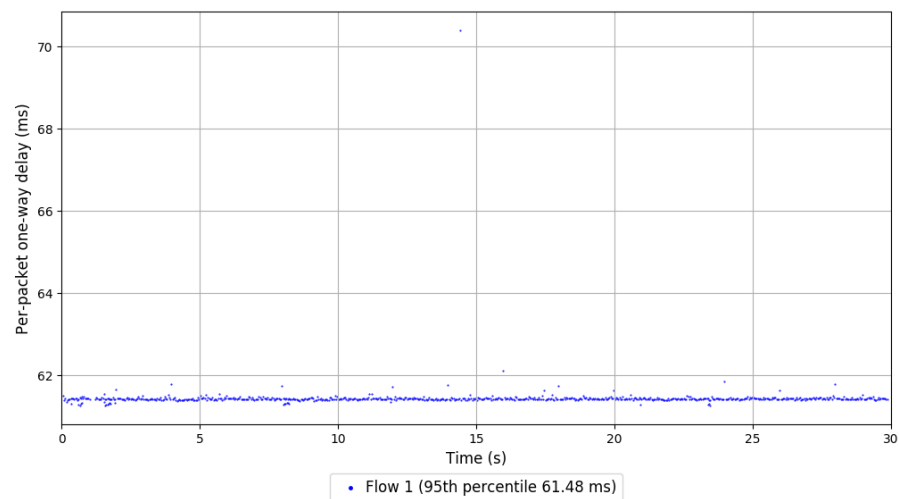
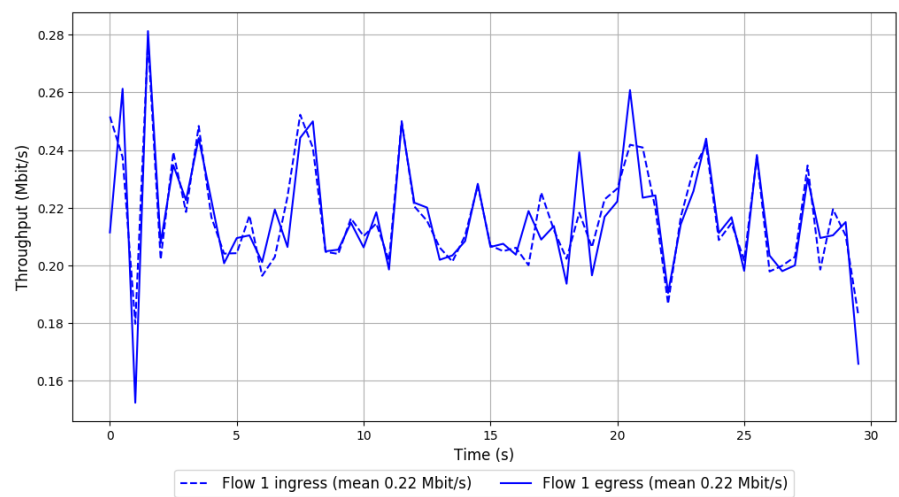
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.479 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-13 11:50:44

End at: 2018-02-13 11:51:14

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.716 ms

Loss rate: 0.38%

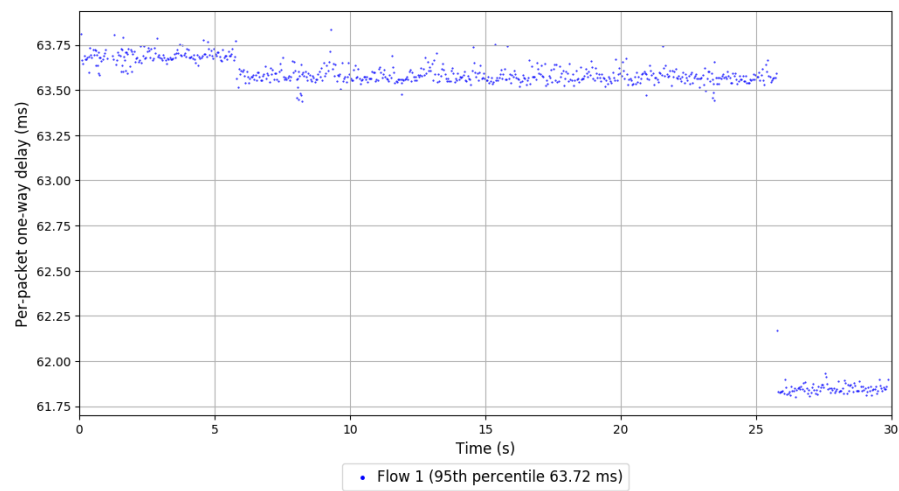
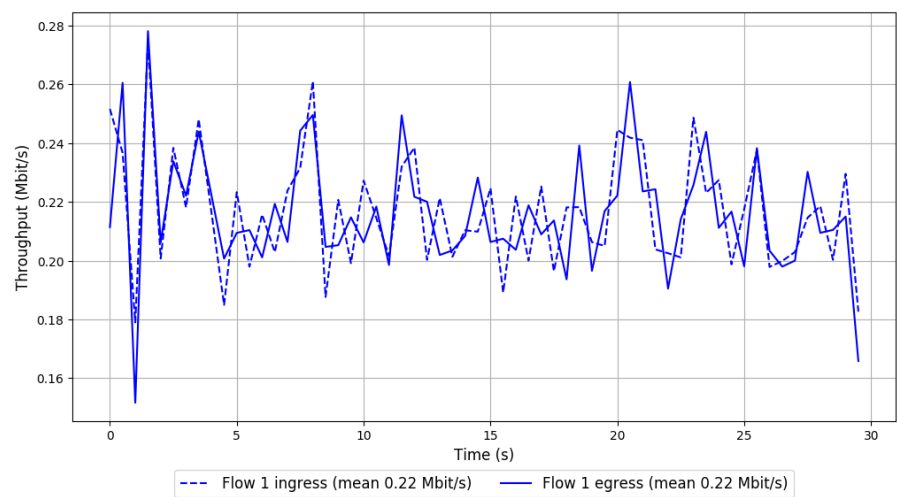
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.716 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-13 12:05:24

End at: 2018-02-13 12:05:54

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.967 ms

Loss rate: 0.38%

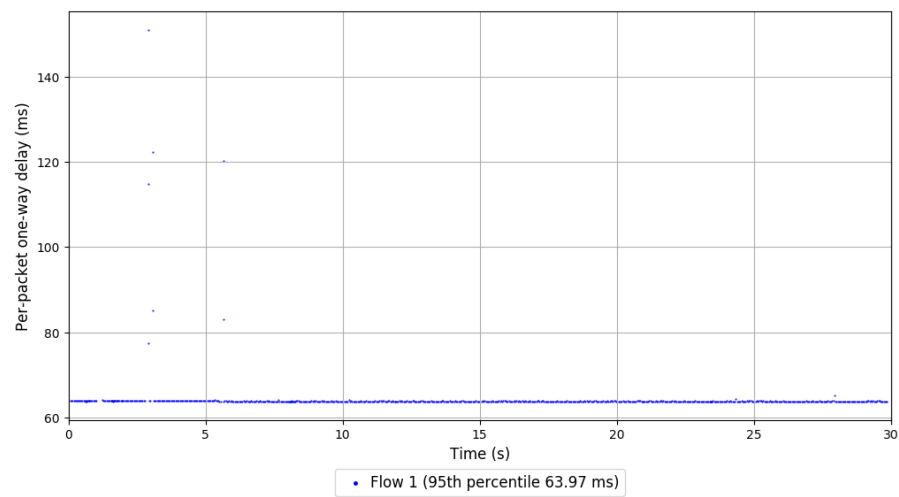
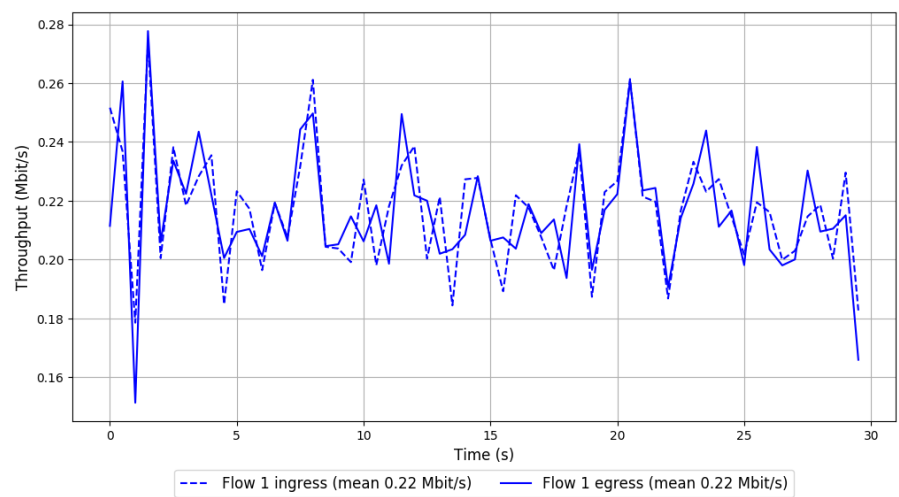
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.967 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-13 12:19:55

End at: 2018-02-13 12:20:25

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.889 ms

Loss rate: 0.38%

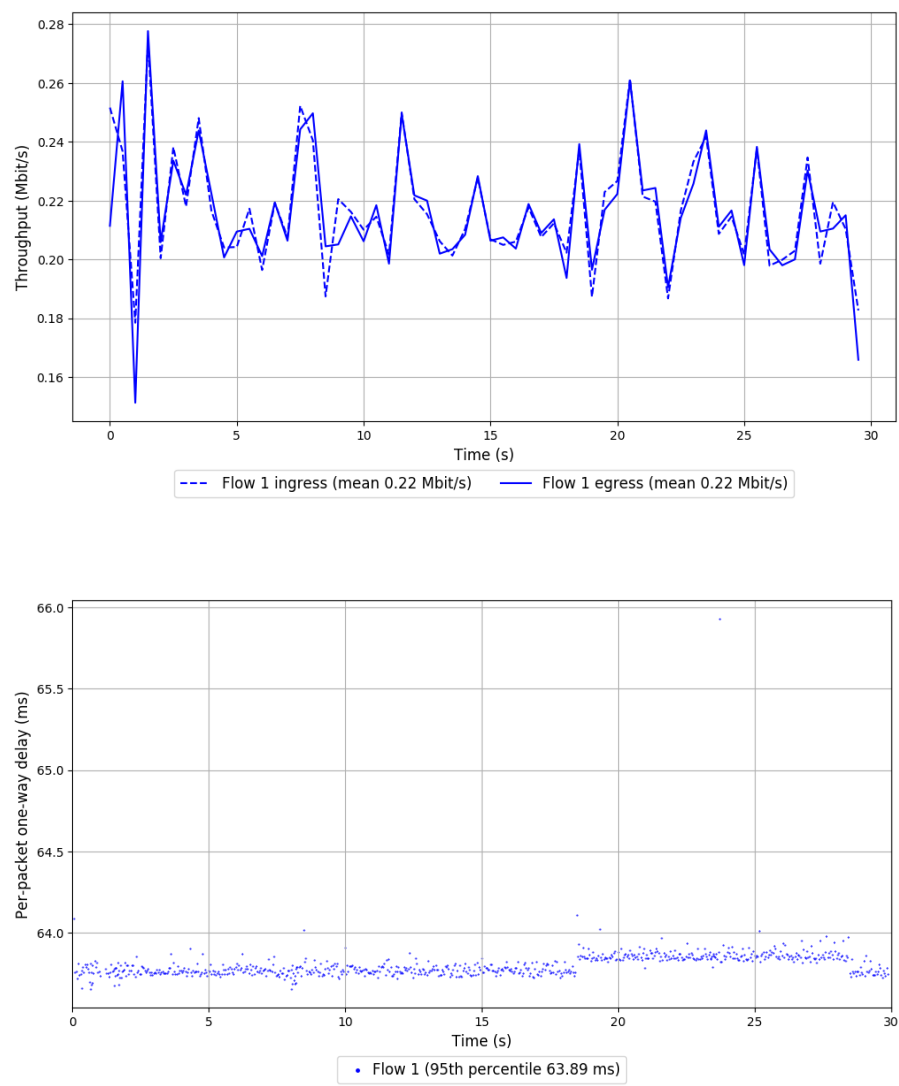
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.889 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-13 12:34:45

End at: 2018-02-13 12:35:15

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.562 ms

Loss rate: 0.38%

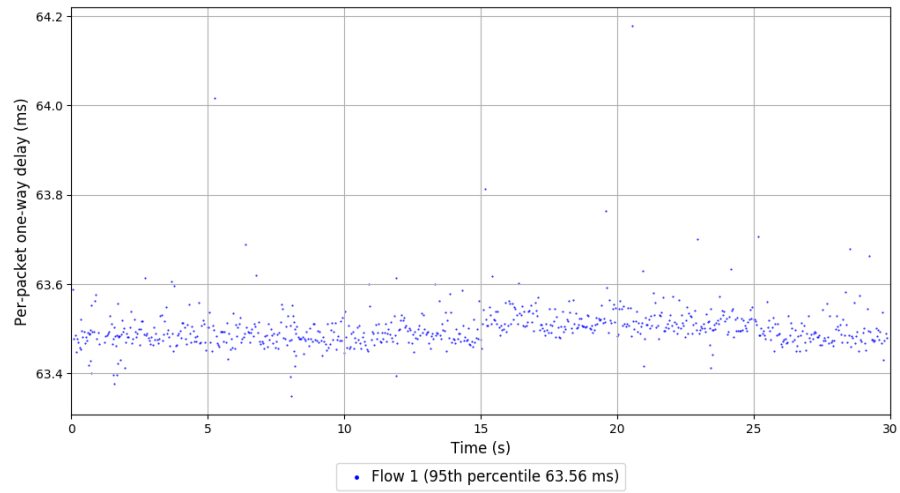
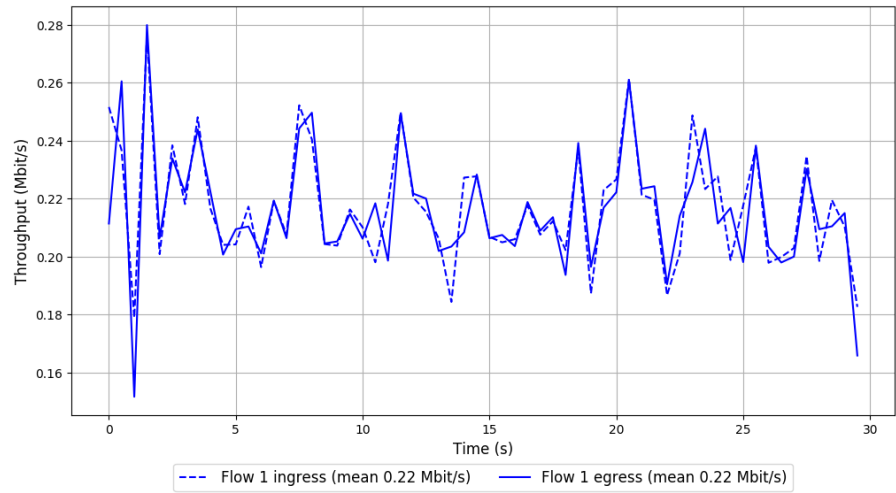
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.562 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-13 12:49:30

End at: 2018-02-13 12:50:00

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.614 ms

Loss rate: 0.38%

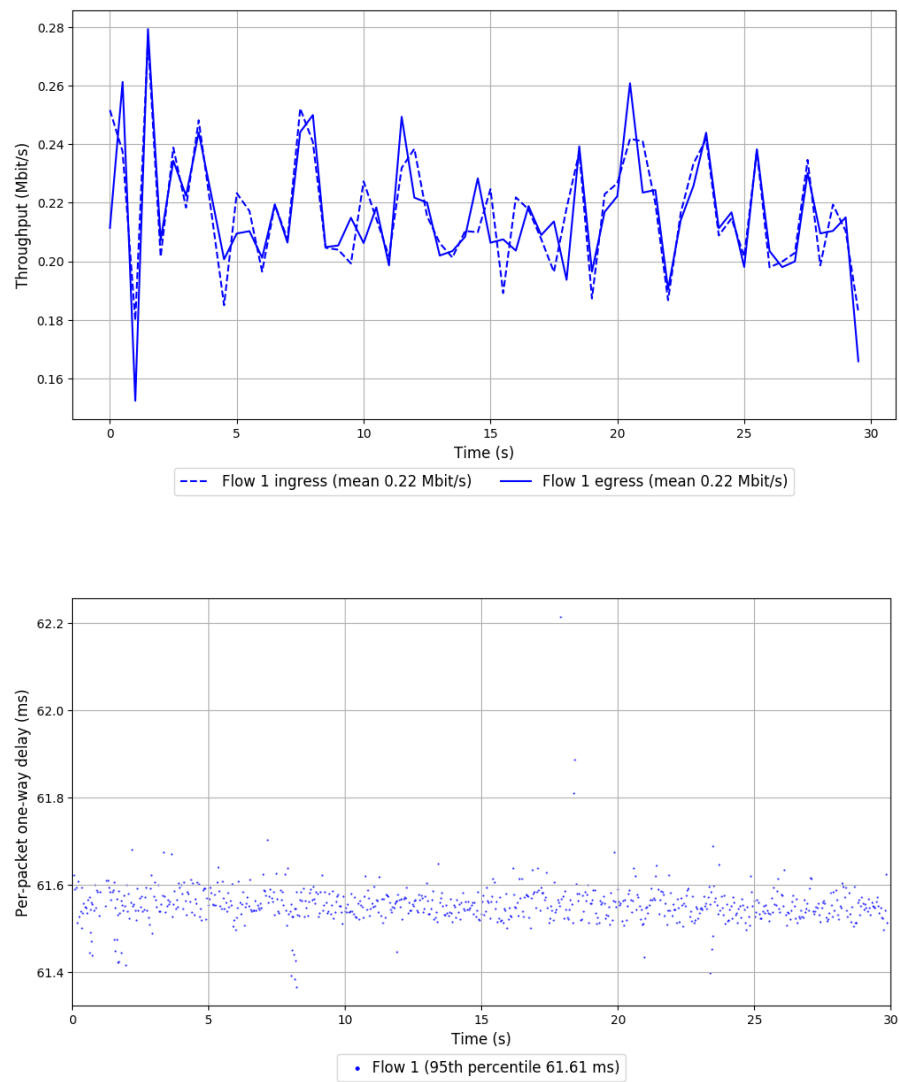
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.614 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-13 13:04:14

End at: 2018-02-13 13:04:44

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.280 ms

Loss rate: 0.38%

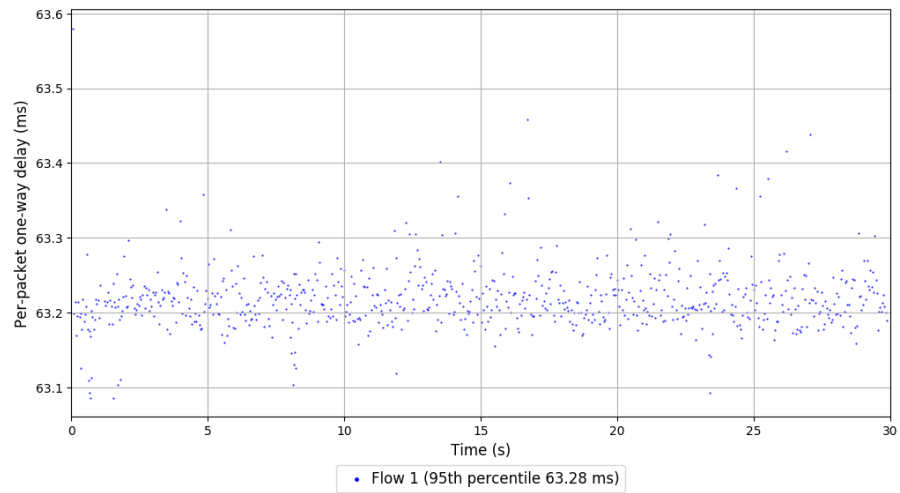
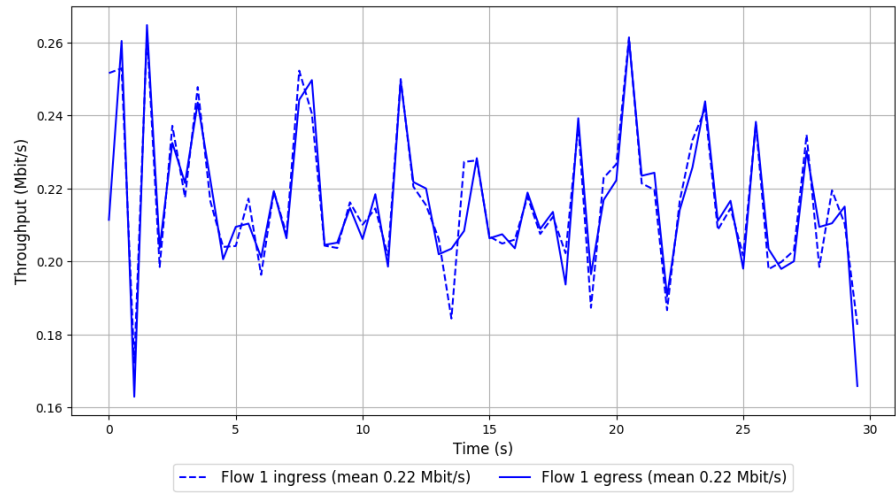
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.280 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-13 13:19:03

End at: 2018-02-13 13:19:33

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

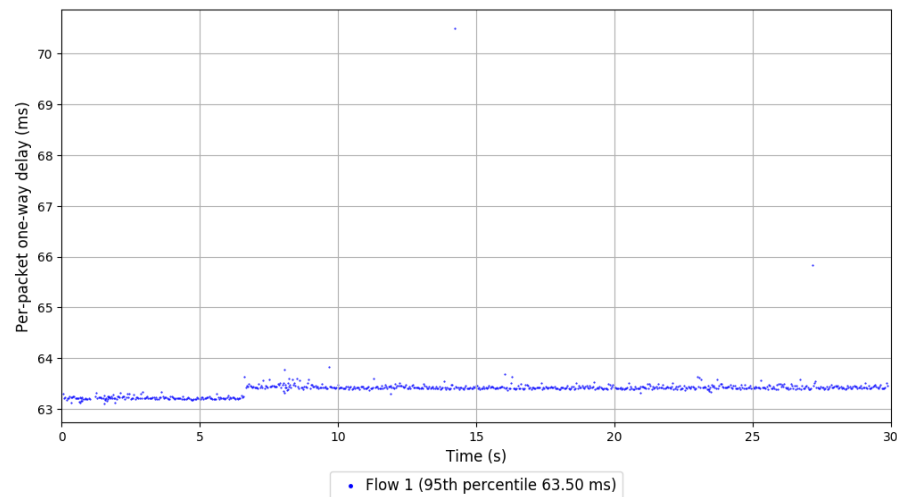
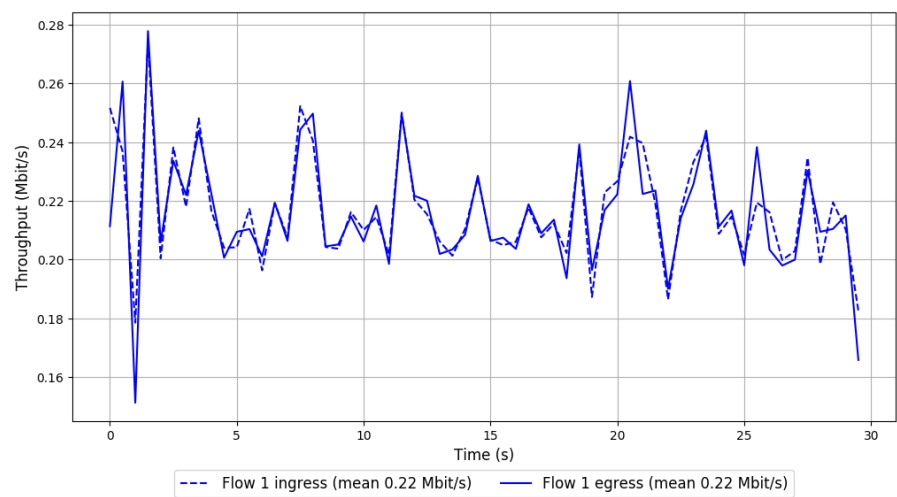
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-13 13:33:28

End at: 2018-02-13 13:33:58

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.195 ms

Loss rate: 0.38%

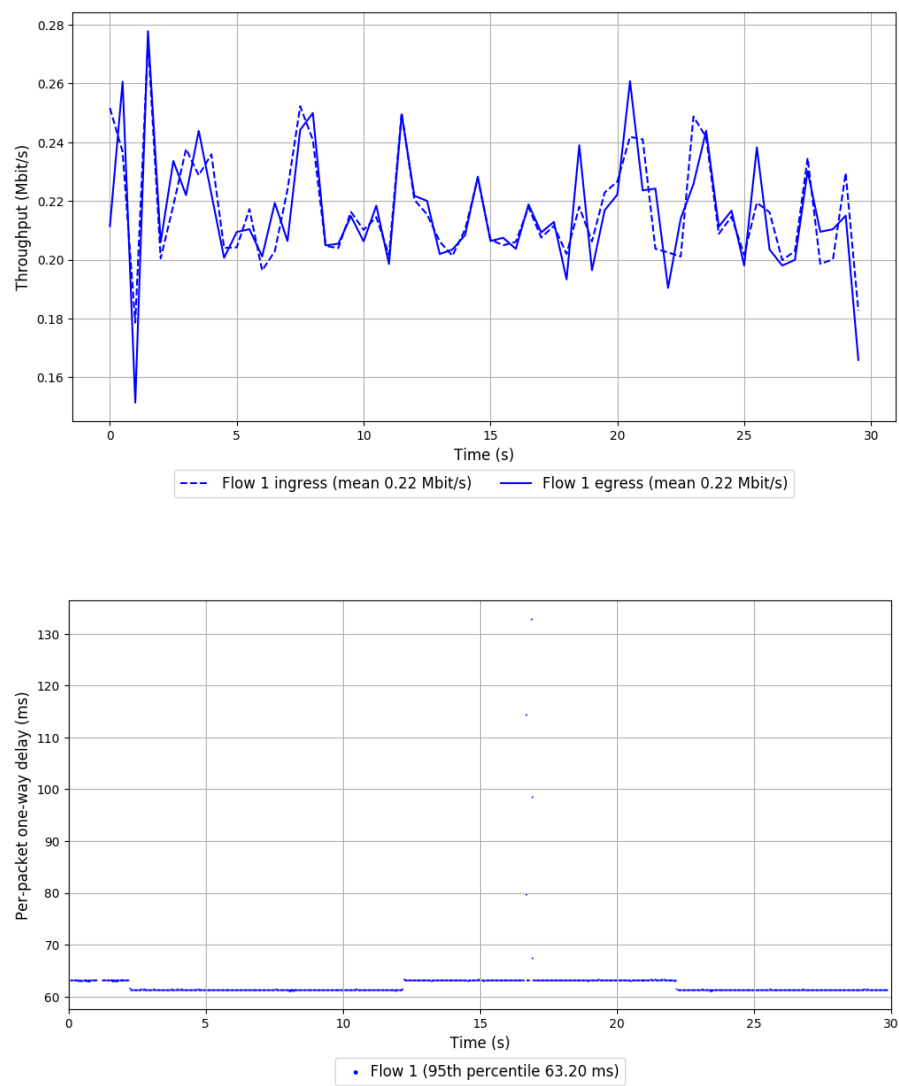
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.195 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

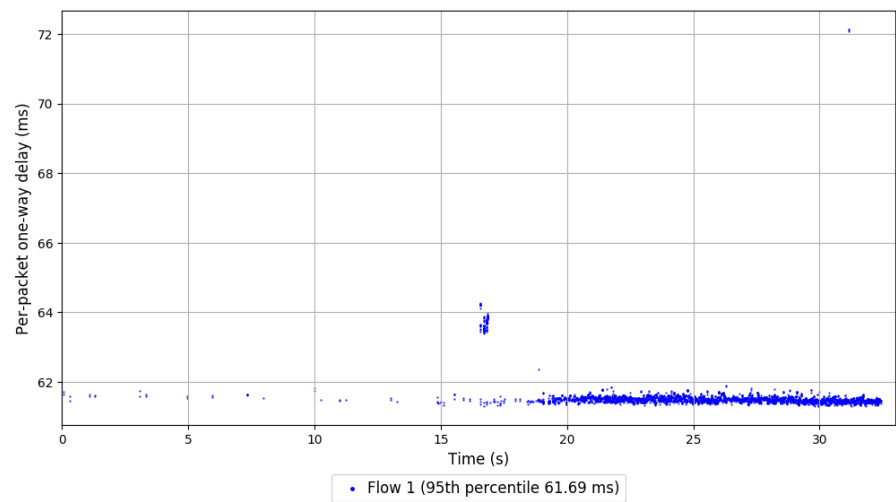
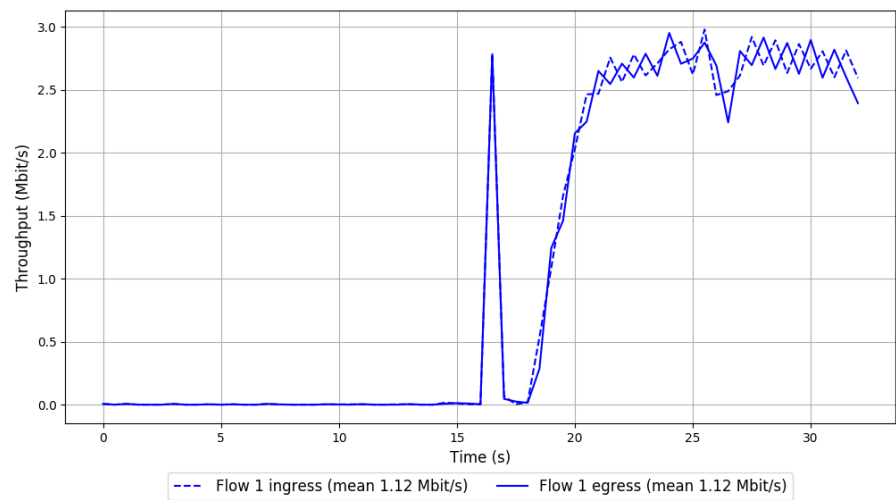


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-13 11:12:03
End at: 2018-02-13 11:12:33

# Below is generated by plot.py at 2018-02-13 16:34:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 61.686 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 1.12 Mbit/s
95th percentile per-packet one-way delay: 61.686 ms
Loss rate: 0.86%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-13 11:26:52

End at: 2018-02-13 11:27:22

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 61.583 ms

Loss rate: 0.44%

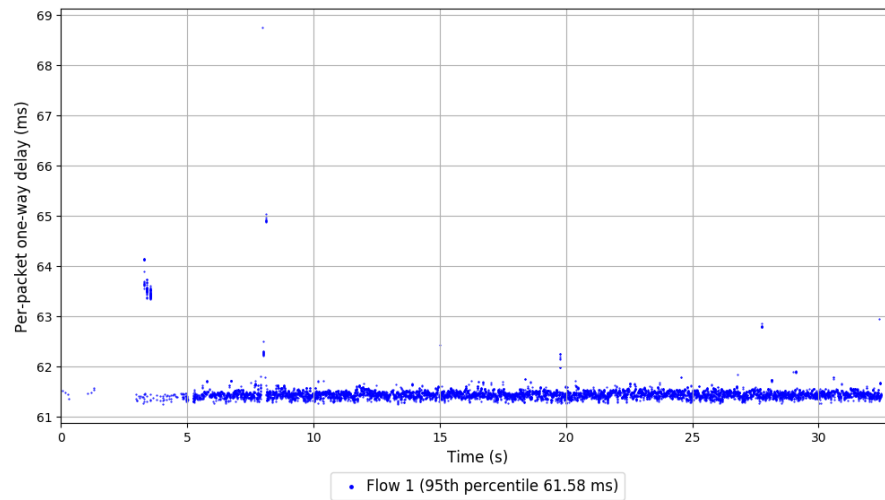
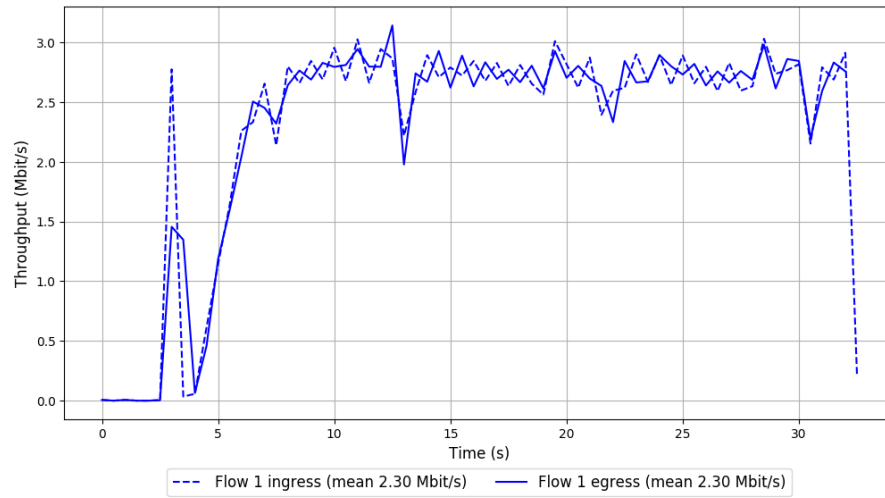
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 61.583 ms

Loss rate: 0.44%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-13 11:41:44

End at: 2018-02-13 11:42:14

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.494 ms

Loss rate: 0.54%

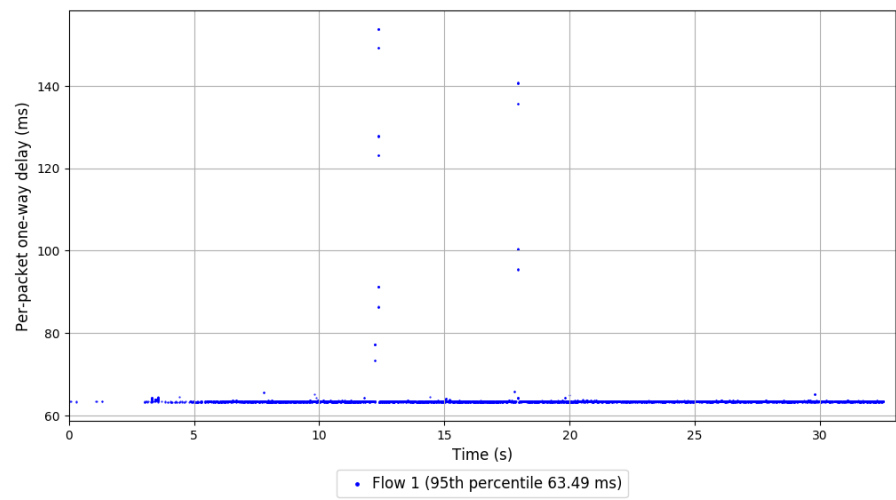
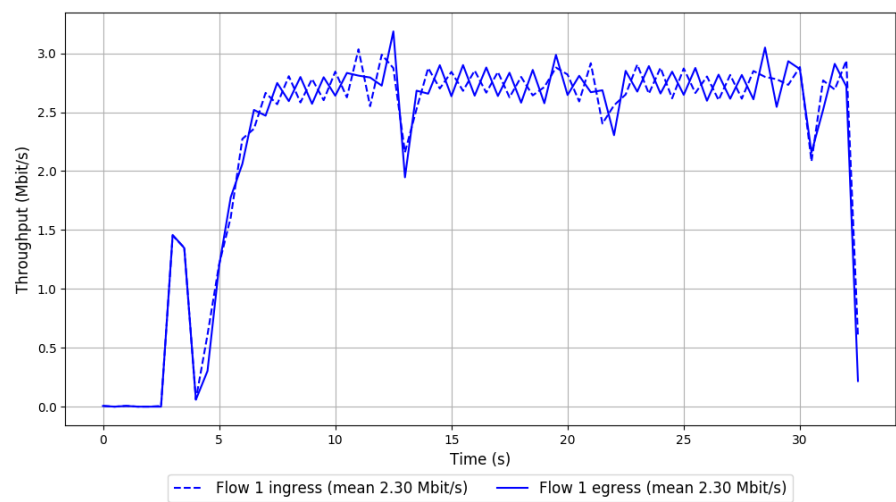
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.494 ms

Loss rate: 0.54%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-13 11:56:33

End at: 2018-02-13 11:57:03

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.878 ms

Loss rate: 0.55%

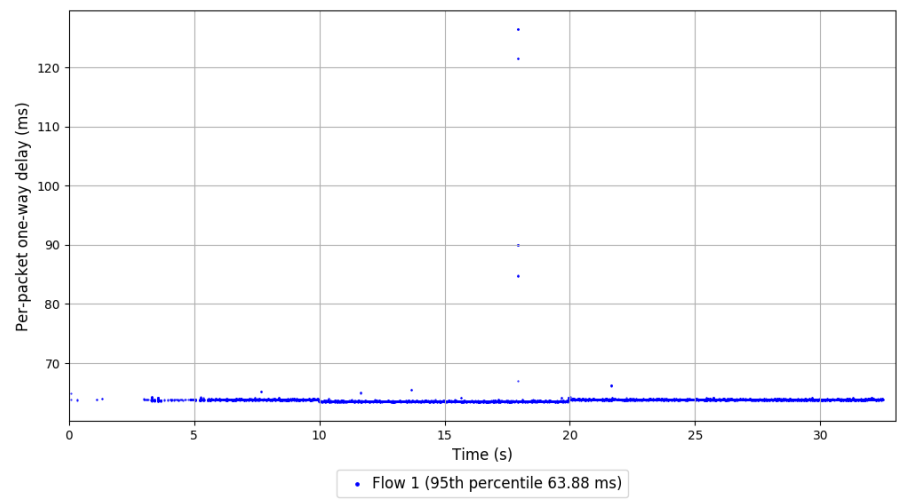
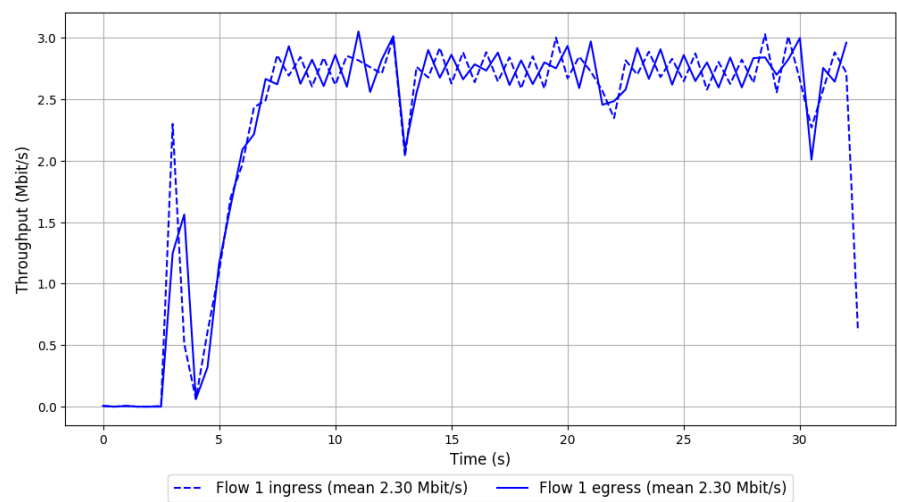
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.878 ms

Loss rate: 0.55%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-13 12:11:10

End at: 2018-02-13 12:11:40

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.689 ms

Loss rate: 0.44%

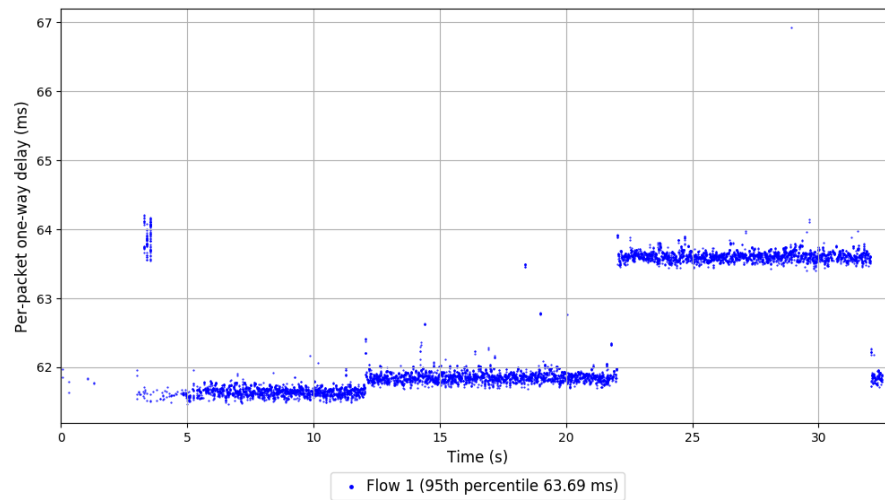
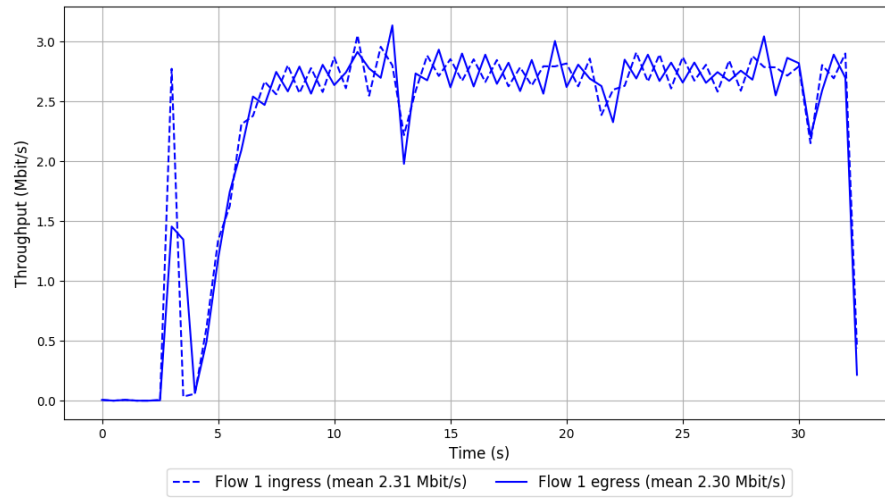
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.689 ms

Loss rate: 0.44%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-13 12:25:37

End at: 2018-02-13 12:26:07

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.802 ms

Loss rate: 0.44%

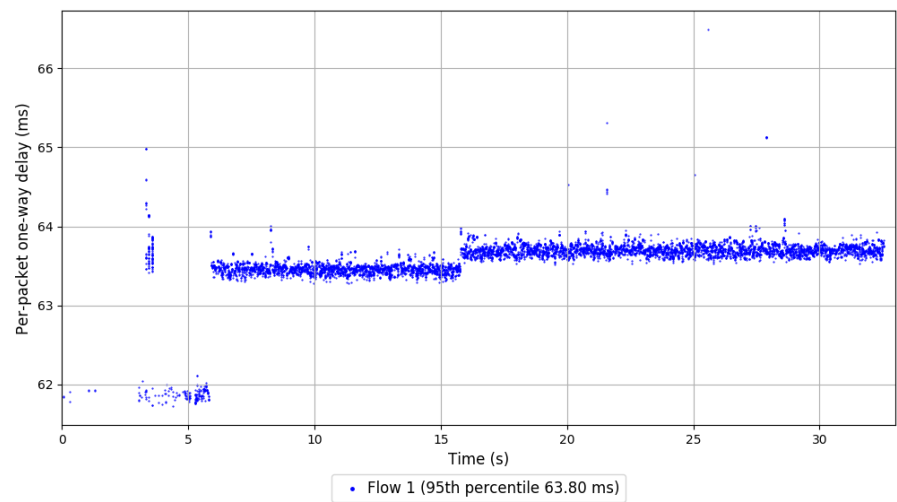
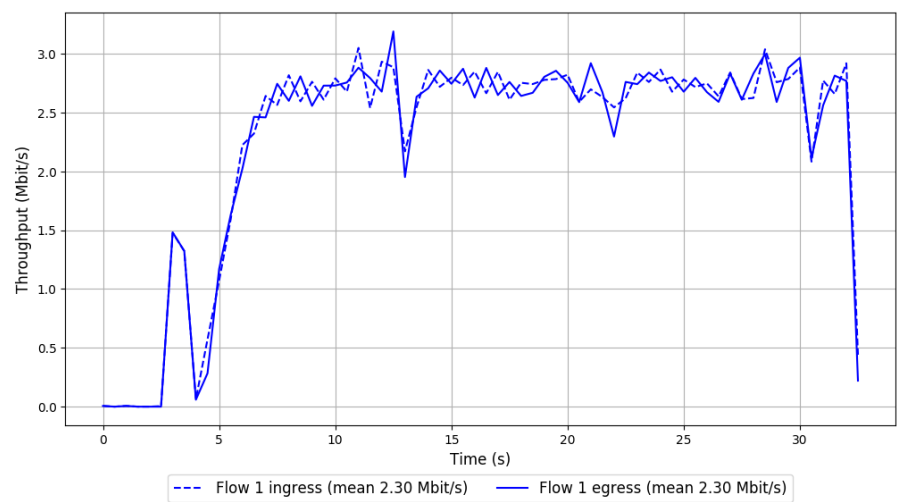
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 63.802 ms

Loss rate: 0.44%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-13 12:40:28

End at: 2018-02-13 12:40:58

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.793 ms

Loss rate: 0.45%

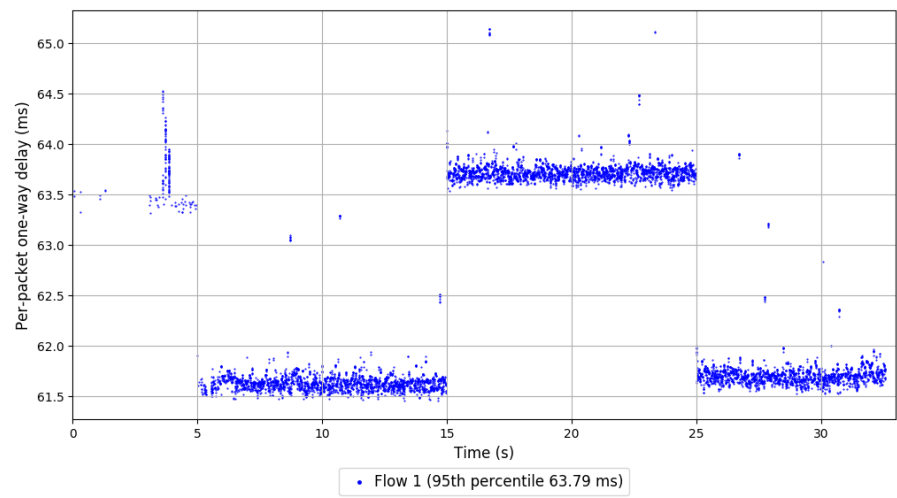
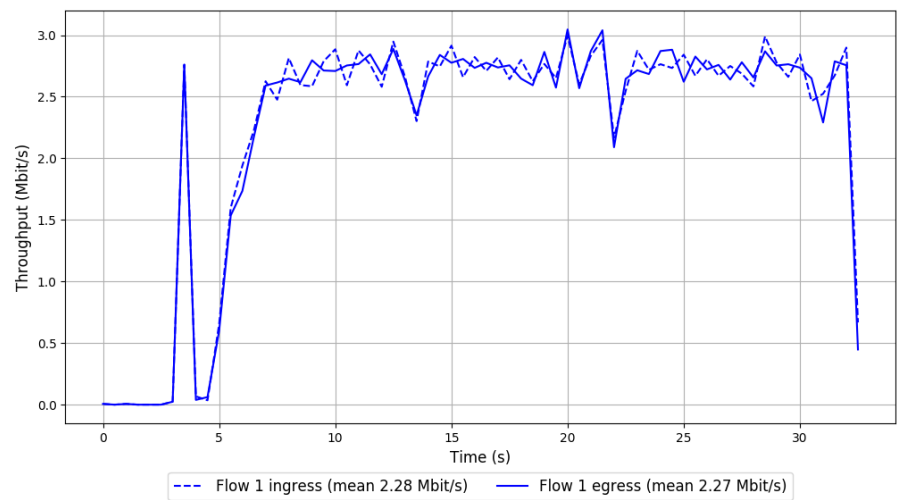
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.793 ms

Loss rate: 0.45%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-13 12:55:14

End at: 2018-02-13 12:55:44

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 0.45%

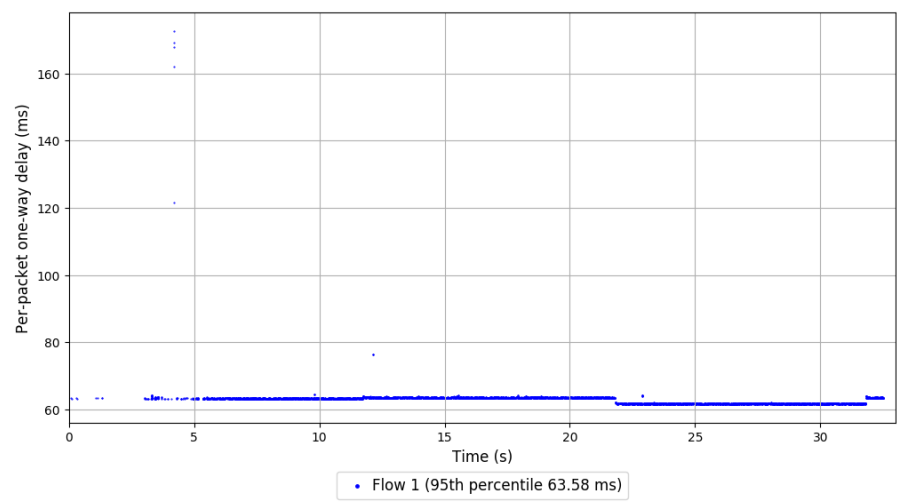
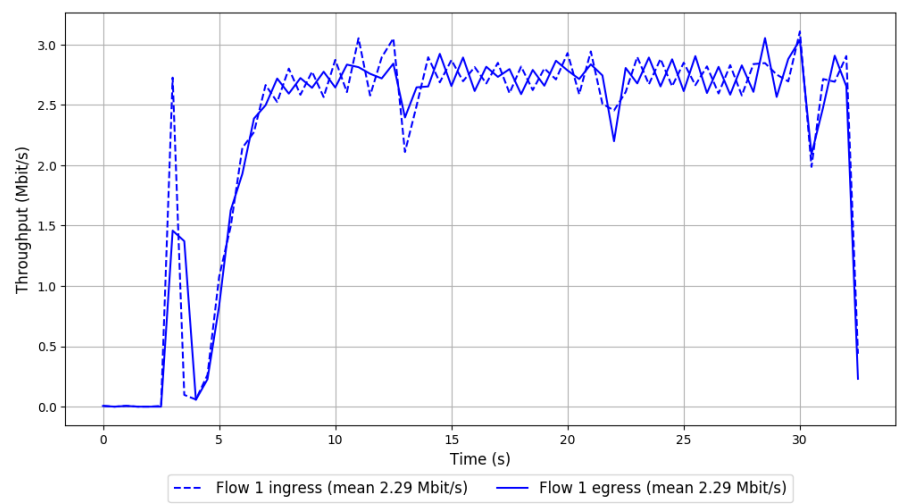
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 0.45%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-13 13:10:03

End at: 2018-02-13 13:10:33

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.60%

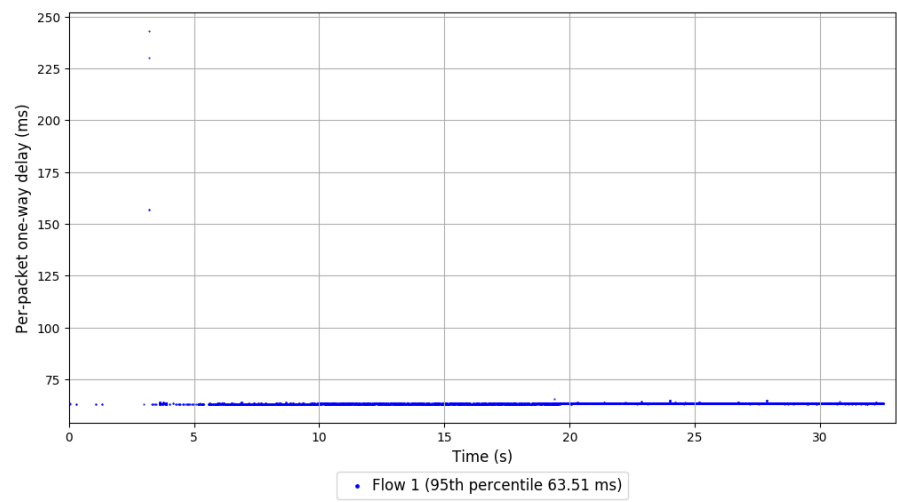
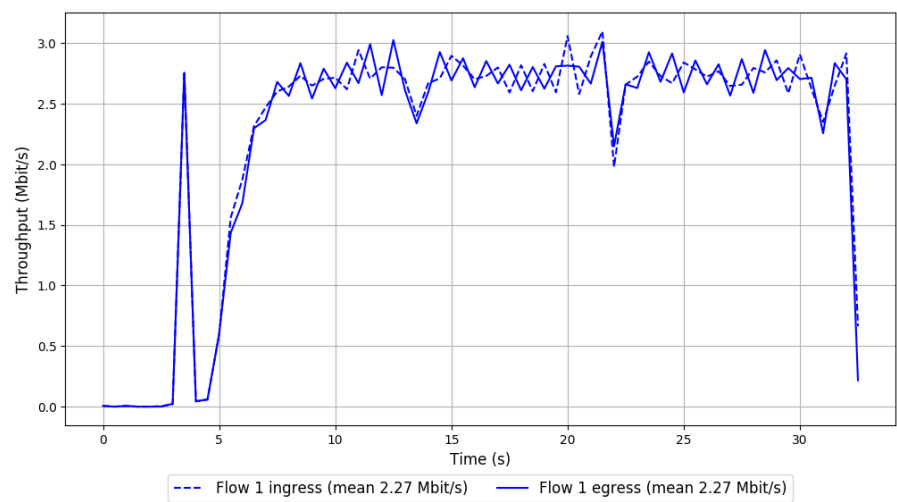
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.60%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-13 13:24:33

End at: 2018-02-13 13:25:03

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 61.496 ms

Loss rate: 0.44%

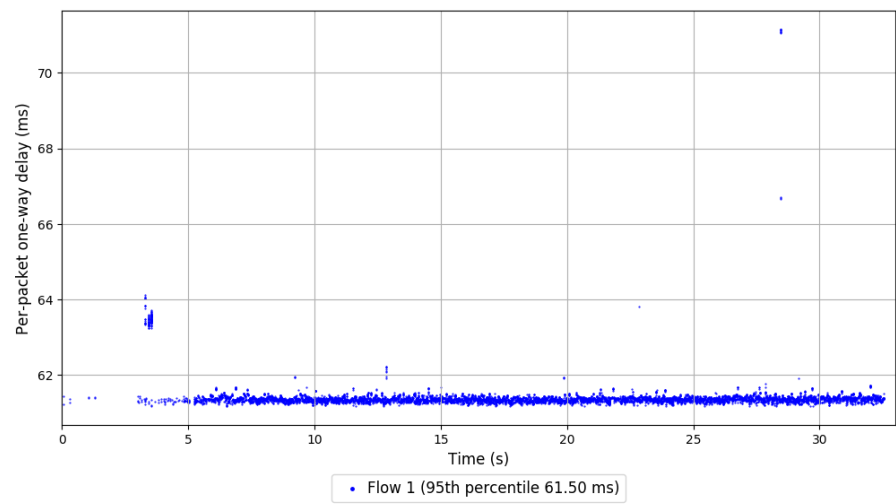
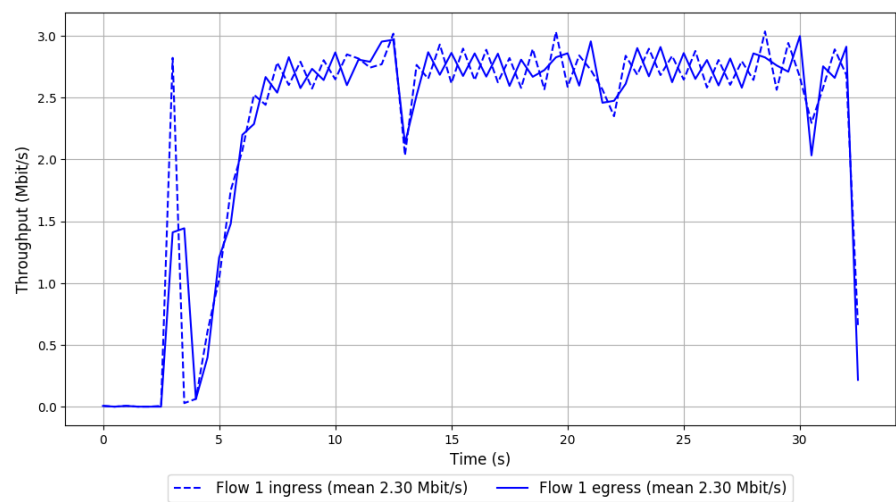
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 61.496 ms

Loss rate: 0.44%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-13 11:17:38

End at: 2018-02-13 11:18:08

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 65.005 ms

Loss rate: 0.44%

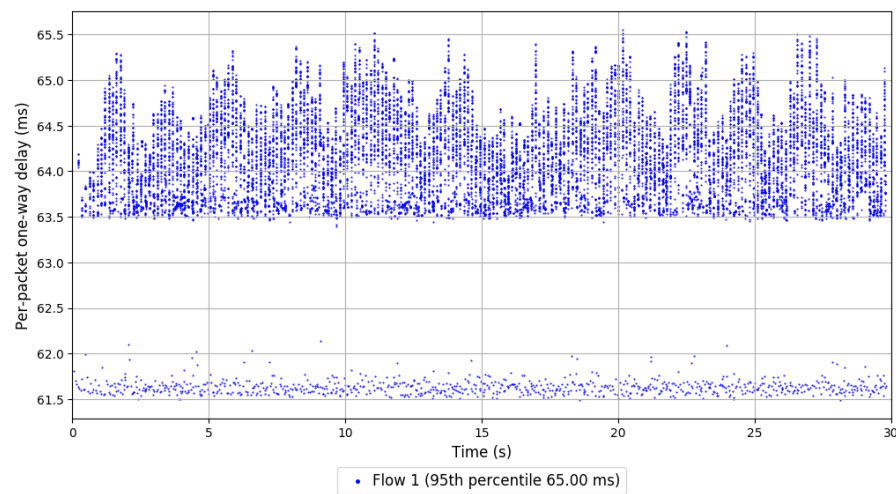
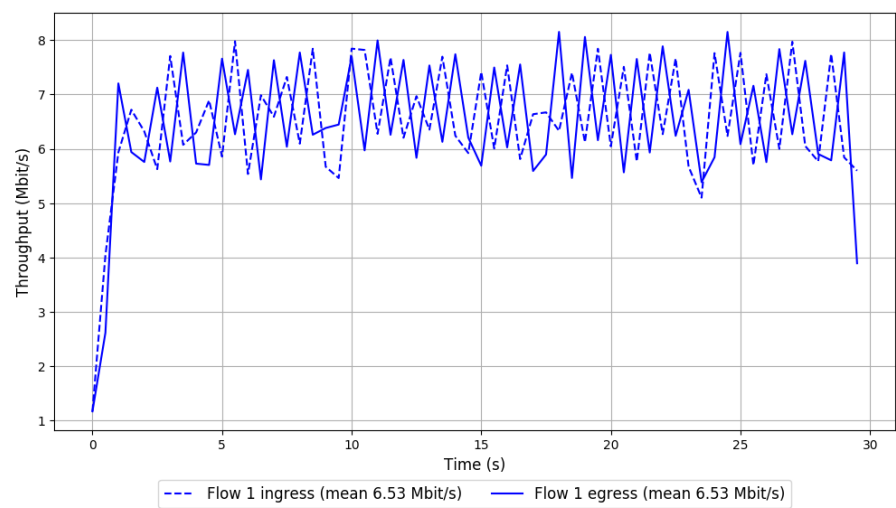
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 65.005 ms

Loss rate: 0.44%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-13 11:32:19

End at: 2018-02-13 11:32:49

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 65.036 ms

Loss rate: 0.38%

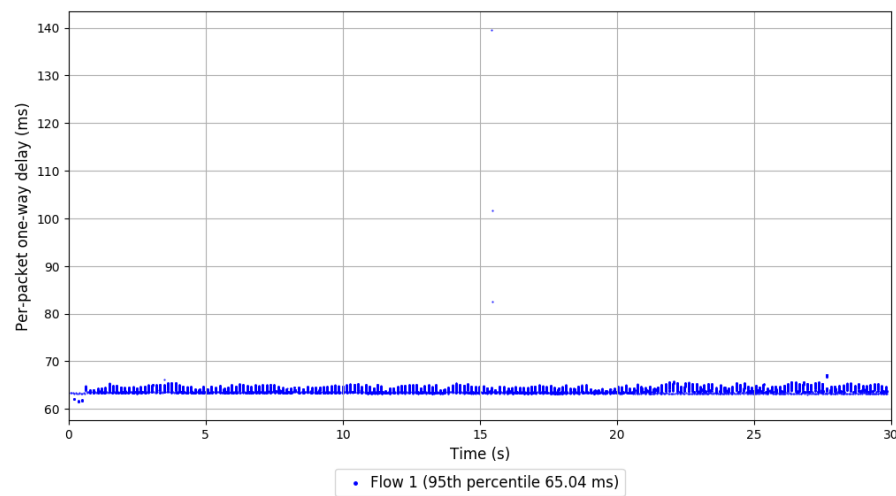
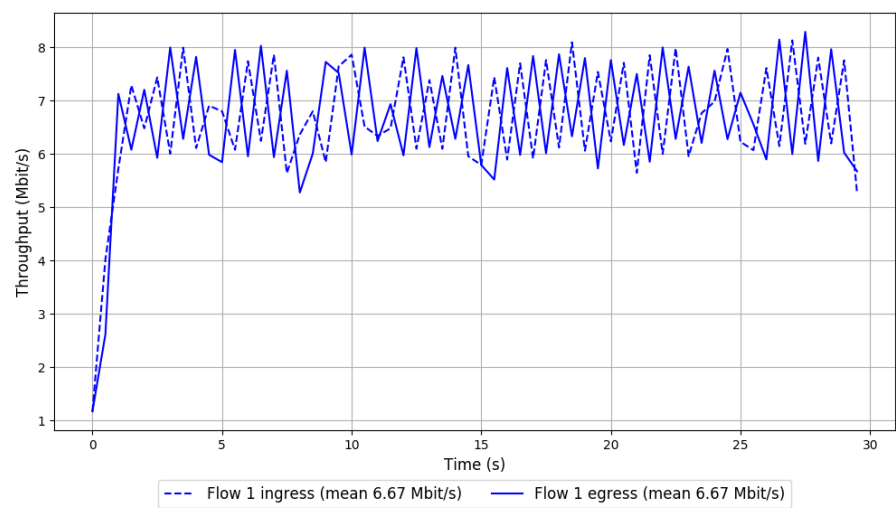
-- Flow 1:

Average throughput: 6.67 Mbit/s

95th percentile per-packet one-way delay: 65.036 ms

Loss rate: 0.38%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-13 11:47:12

End at: 2018-02-13 11:47:42

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 65.019 ms

Loss rate: 0.30%

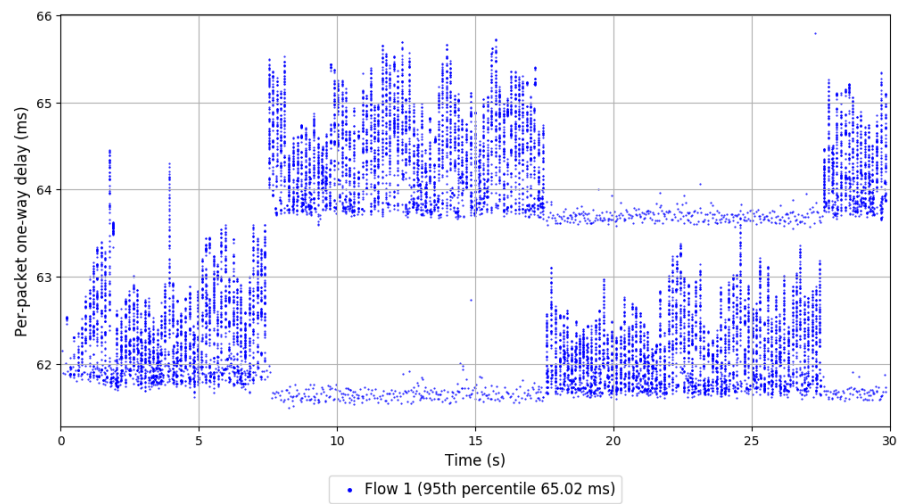
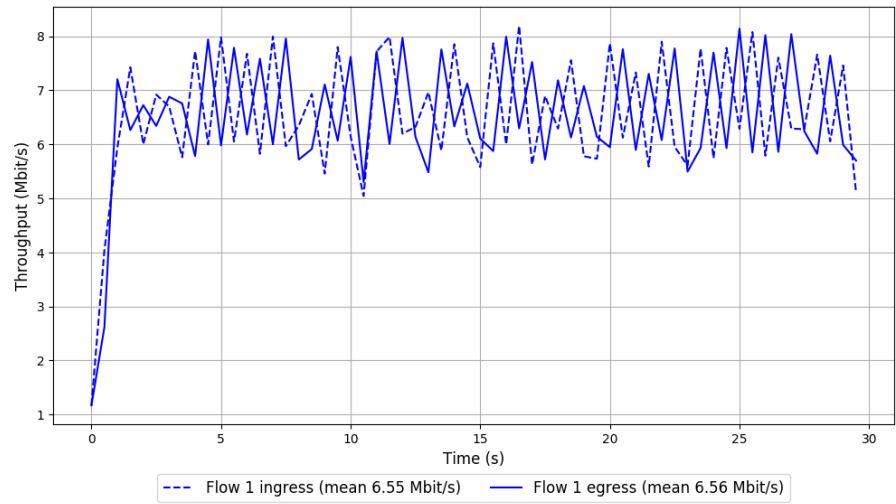
-- Flow 1:

Average throughput: 6.56 Mbit/s

95th percentile per-packet one-way delay: 65.019 ms

Loss rate: 0.30%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-13 12:01:58

End at: 2018-02-13 12:02:28

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 1.01%

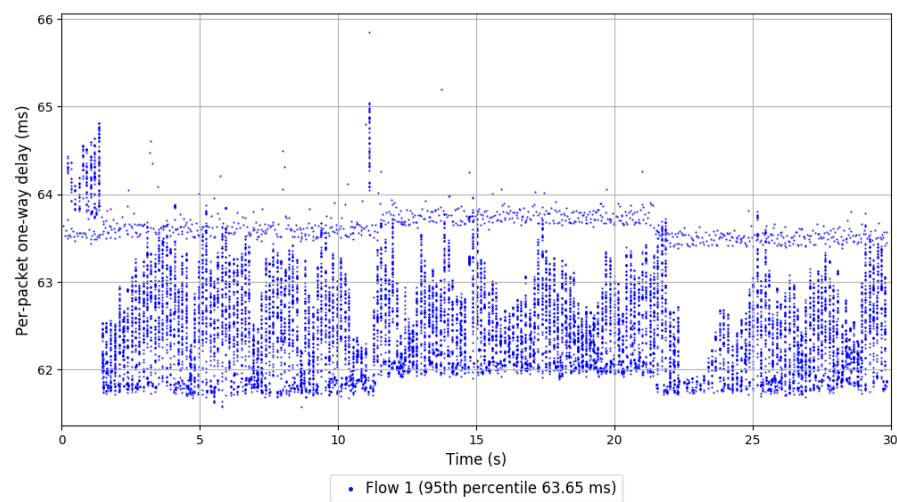
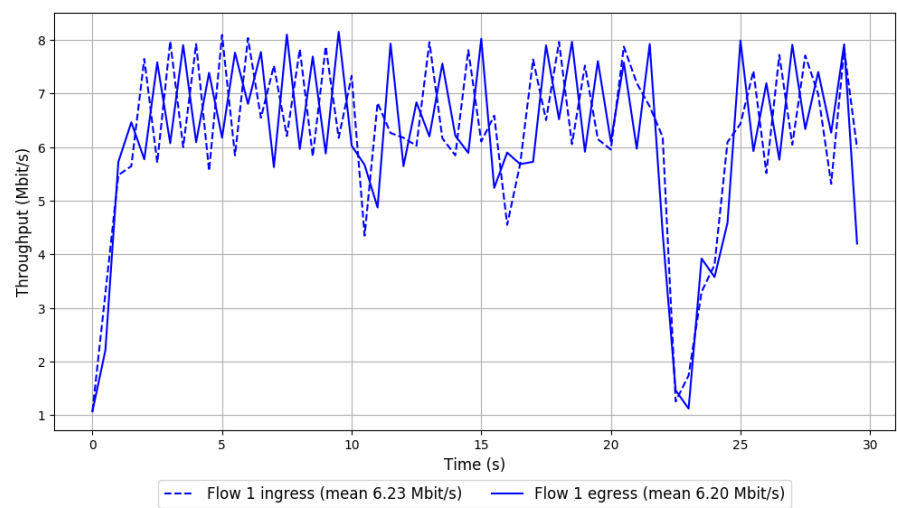
-- Flow 1:

Average throughput: 6.20 Mbit/s

95th percentile per-packet one-way delay: 63.653 ms

Loss rate: 1.01%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-13 12:16:36

End at: 2018-02-13 12:17:06

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.727 ms

Loss rate: 0.50%

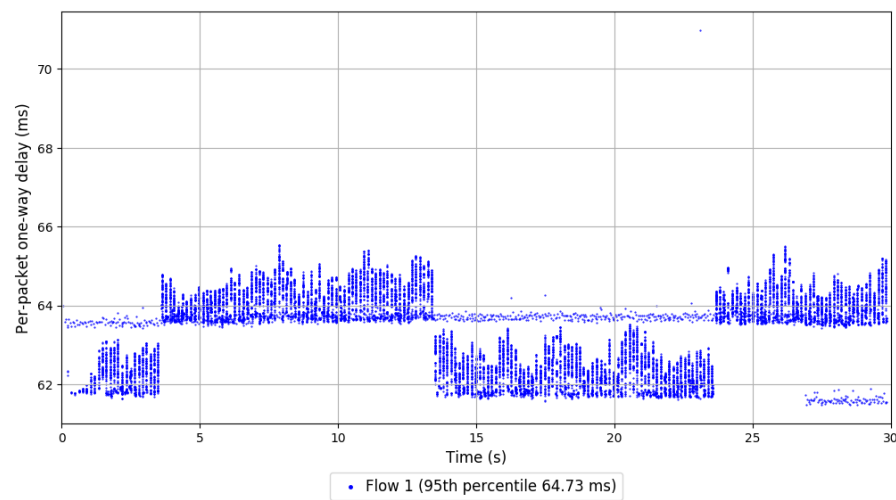
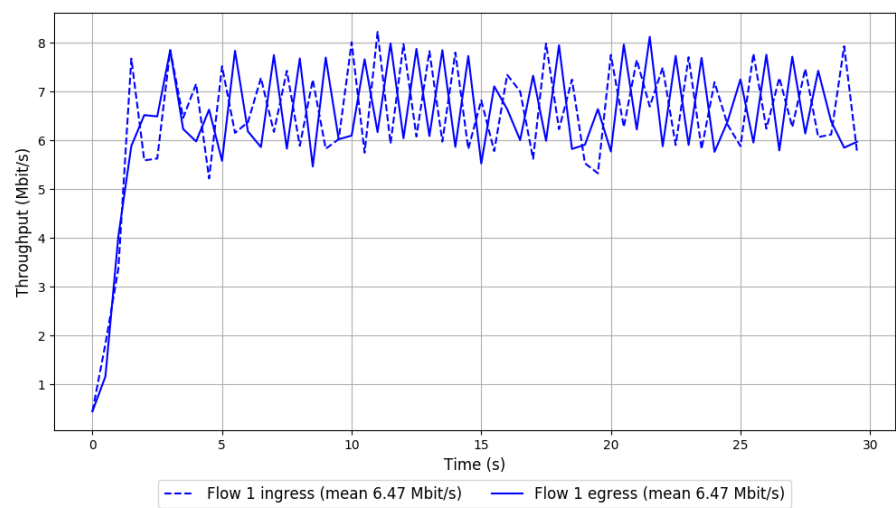
-- Flow 1:

Average throughput: 6.47 Mbit/s

95th percentile per-packet one-way delay: 64.727 ms

Loss rate: 0.50%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-13 12:31:08

End at: 2018-02-13 12:31:38

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 65.241 ms

Loss rate: 0.59%

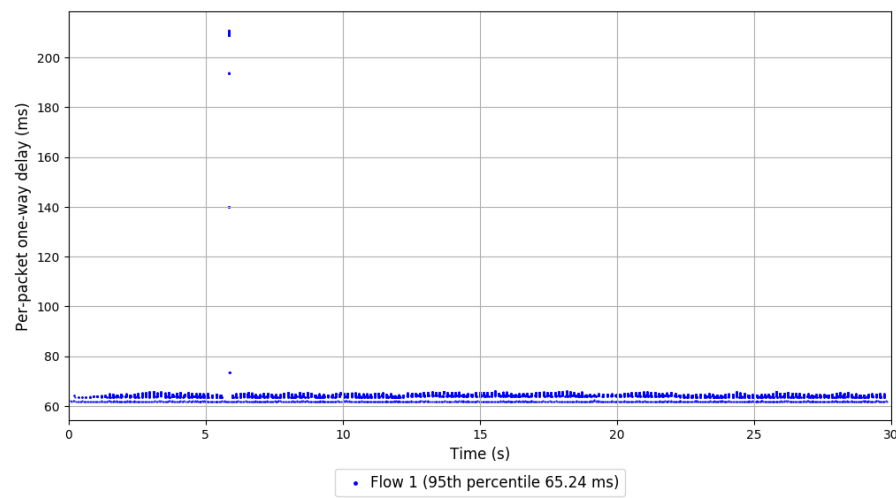
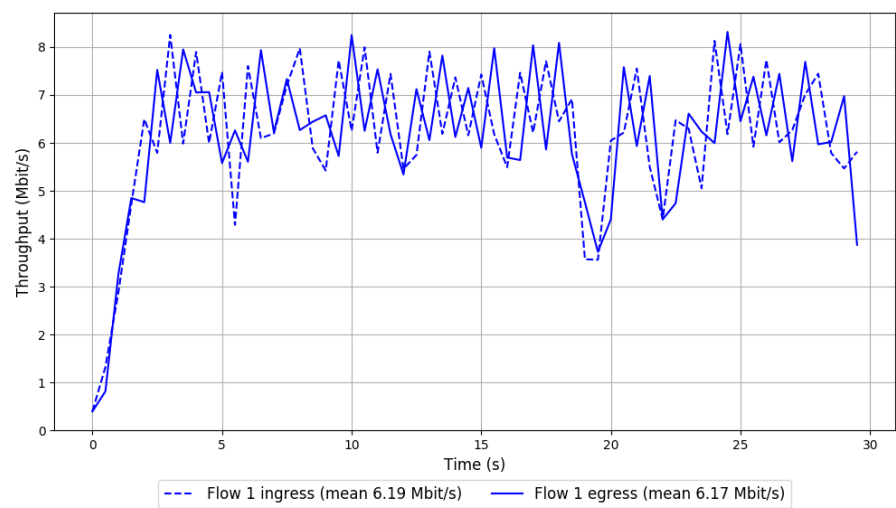
-- Flow 1:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 65.241 ms

Loss rate: 0.59%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-13 12:45:59

End at: 2018-02-13 12:46:29

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.948 ms

Loss rate: 0.42%

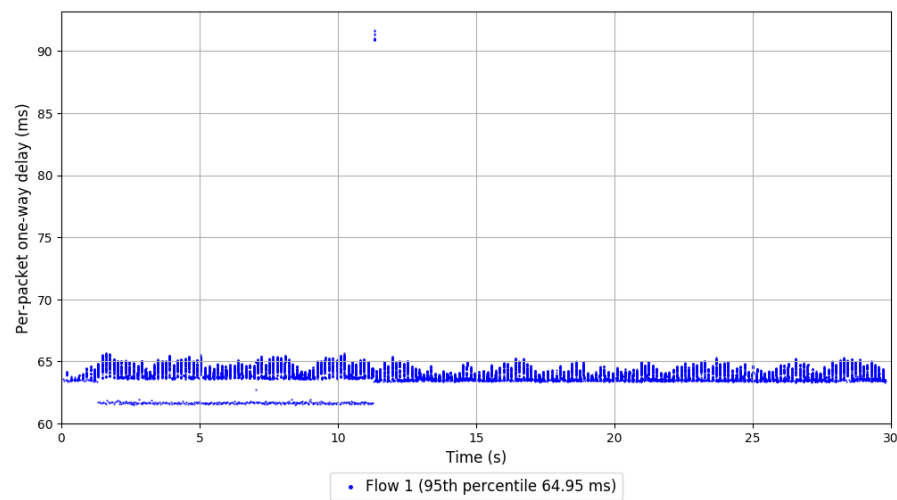
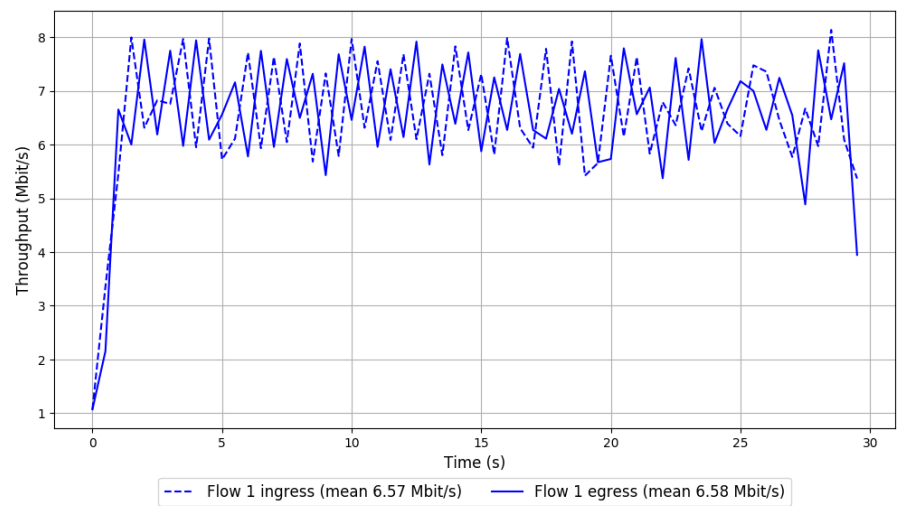
-- Flow 1:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 64.948 ms

Loss rate: 0.42%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-13 13:00:42

End at: 2018-02-13 13:01:12

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 64.640 ms

Loss rate: 0.51%

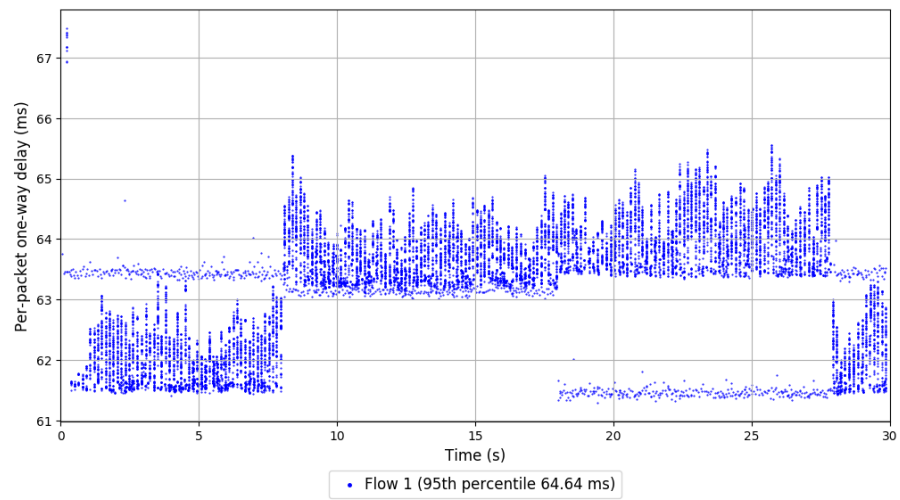
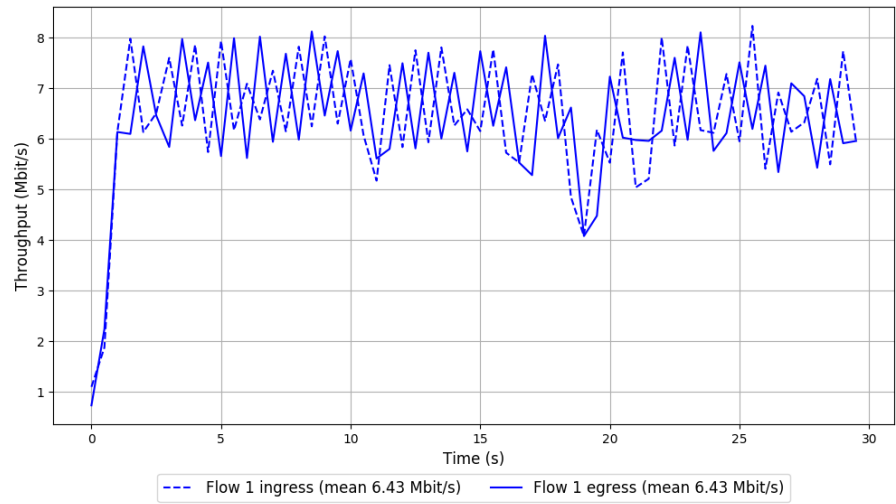
-- Flow 1:

Average throughput: 6.43 Mbit/s

95th percentile per-packet one-way delay: 64.640 ms

Loss rate: 0.51%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-13 13:15:34

End at: 2018-02-13 13:16:04

Below is generated by plot.py at 2018-02-13 16:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.459 ms

Loss rate: 0.49%

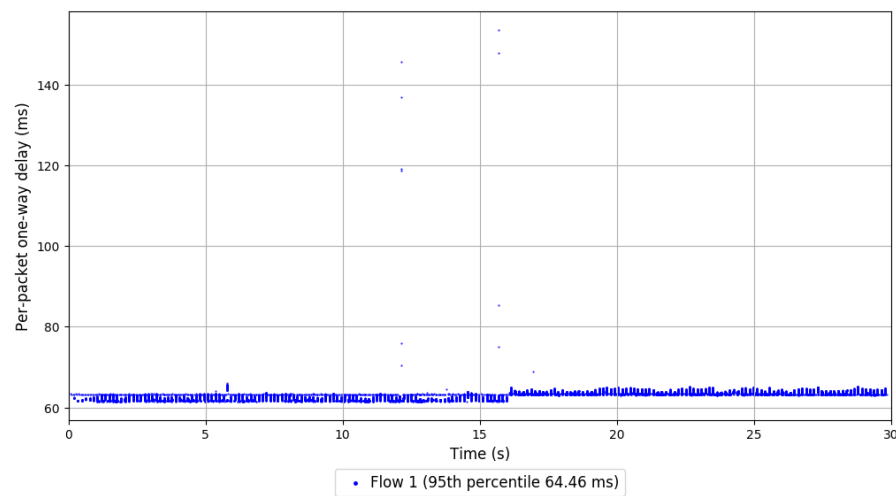
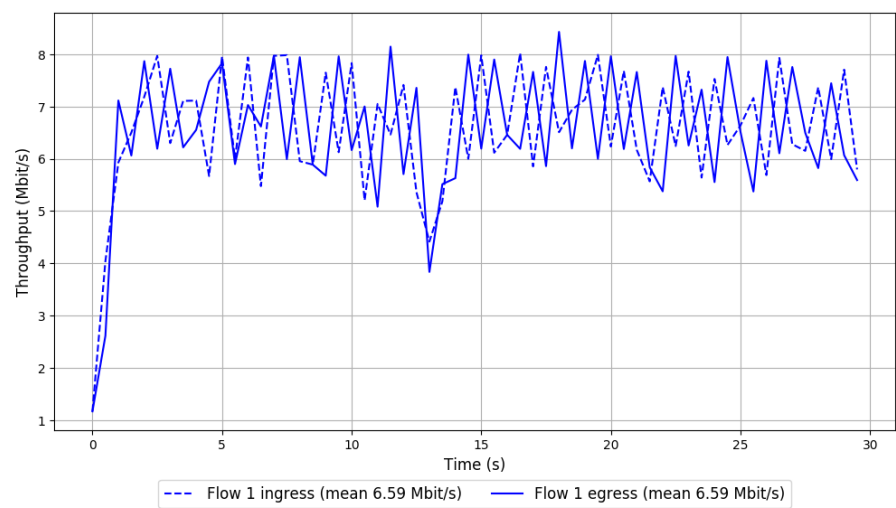
-- Flow 1:

Average throughput: 6.59 Mbit/s

95th percentile per-packet one-way delay: 64.459 ms

Loss rate: 0.49%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-13 13:29:58

End at: 2018-02-13 13:30:28

Below is generated by plot.py at 2018-02-13 16:34:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.507 ms

Loss rate: 0.51%

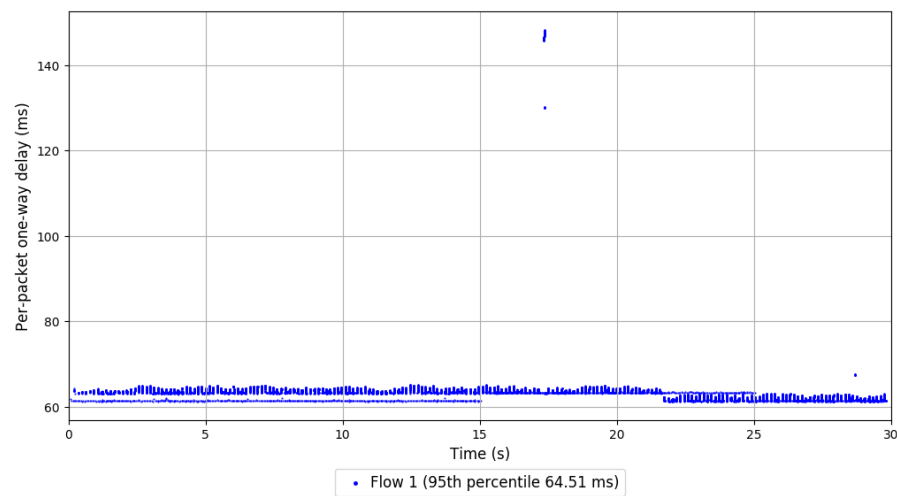
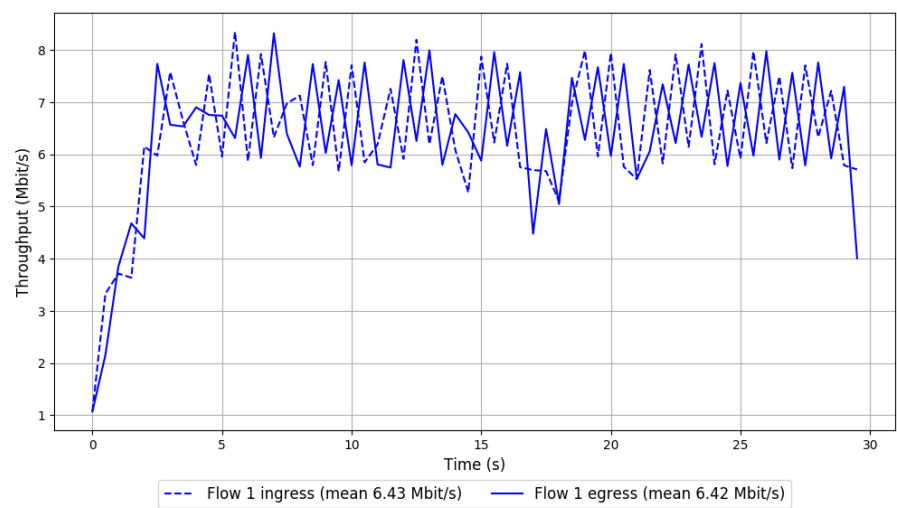
-- Flow 1:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.507 ms

Loss rate: 0.51%

Run 10: Report of Sprout — Data Link

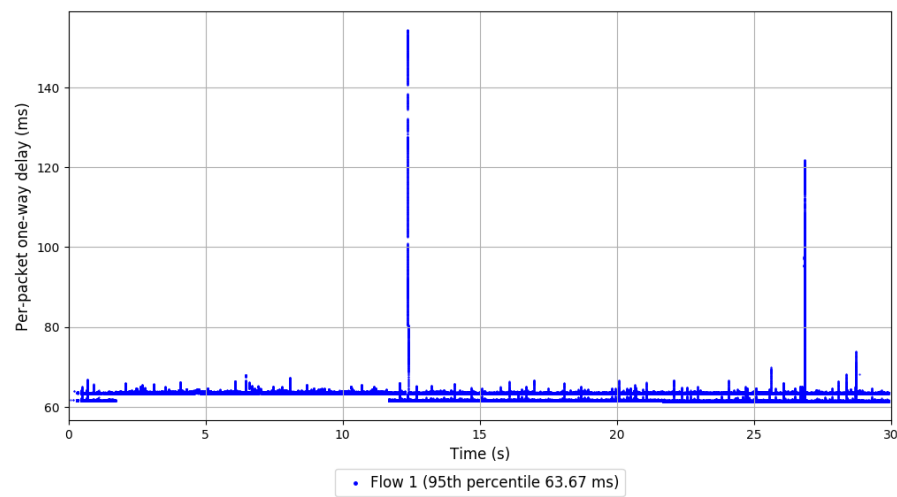
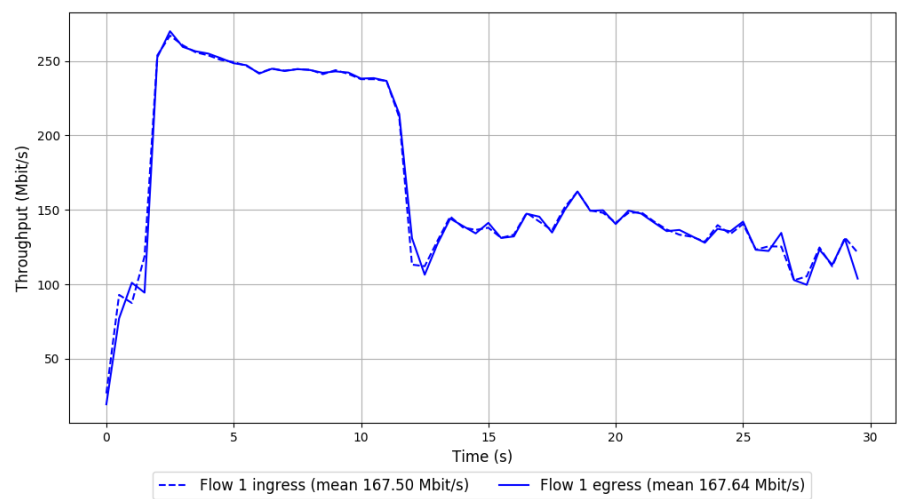


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-13 11:10:02
End at: 2018-02-13 11:10:32

# Below is generated by plot.py at 2018-02-13 16:35:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.64 Mbit/s
95th percentile per-packet one-way delay: 63.670 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 167.64 Mbit/s
95th percentile per-packet one-way delay: 63.670 ms
Loss rate: 0.33%
```

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

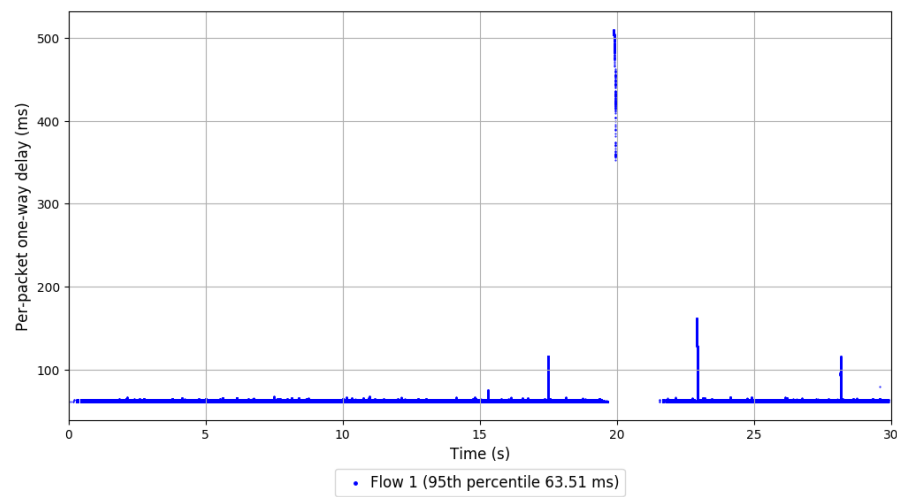
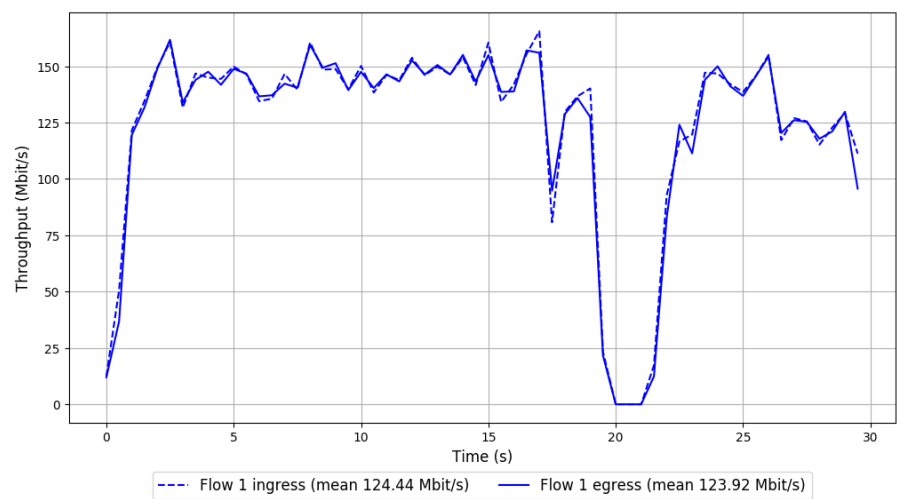


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-13 11:24:53
End at: 2018-02-13 11:25:23

# Below is generated by plot.py at 2018-02-13 16:35:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 123.92 Mbit/s
95th percentile per-packet one-way delay: 63.506 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 123.92 Mbit/s
95th percentile per-packet one-way delay: 63.506 ms
Loss rate: 0.83%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-13 11:39:34

End at: 2018-02-13 11:40:04

Below is generated by plot.py at 2018-02-13 16:36:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.85 Mbit/s

95th percentile per-packet one-way delay: 63.481 ms

Loss rate: 0.37%

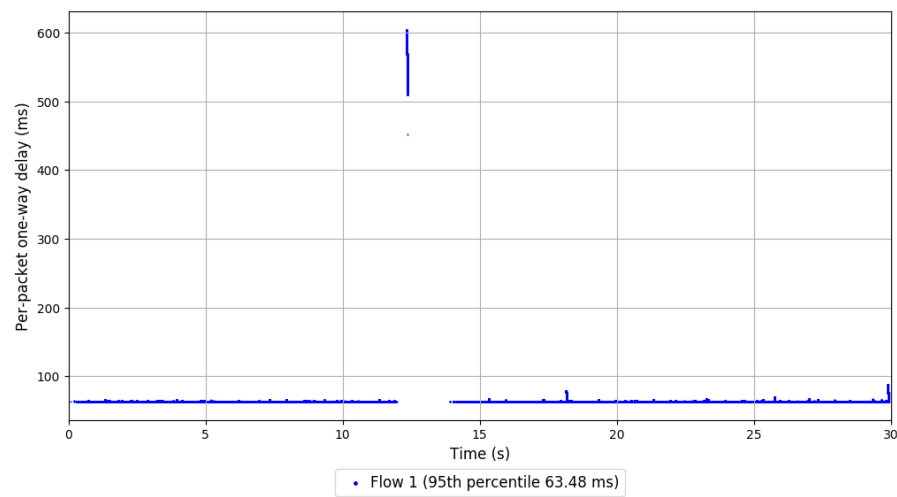
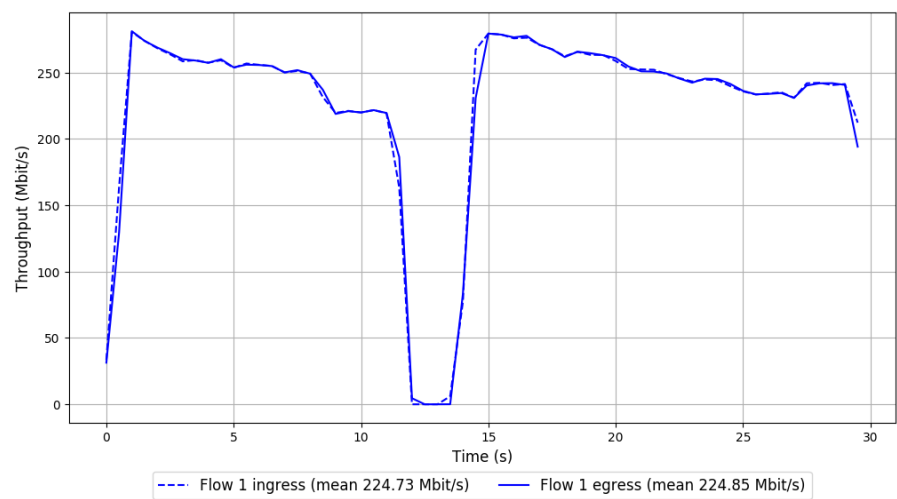
-- Flow 1:

Average throughput: 224.85 Mbit/s

95th percentile per-packet one-way delay: 63.481 ms

Loss rate: 0.37%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-13 11:54:29

End at: 2018-02-13 11:54:59

Below is generated by plot.py at 2018-02-13 16:36:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.50 Mbit/s

95th percentile per-packet one-way delay: 63.734 ms

Loss rate: 0.24%

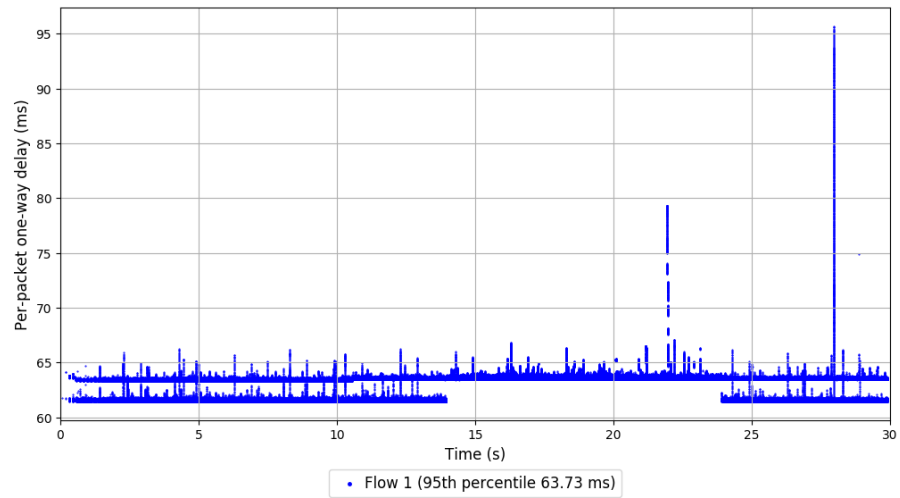
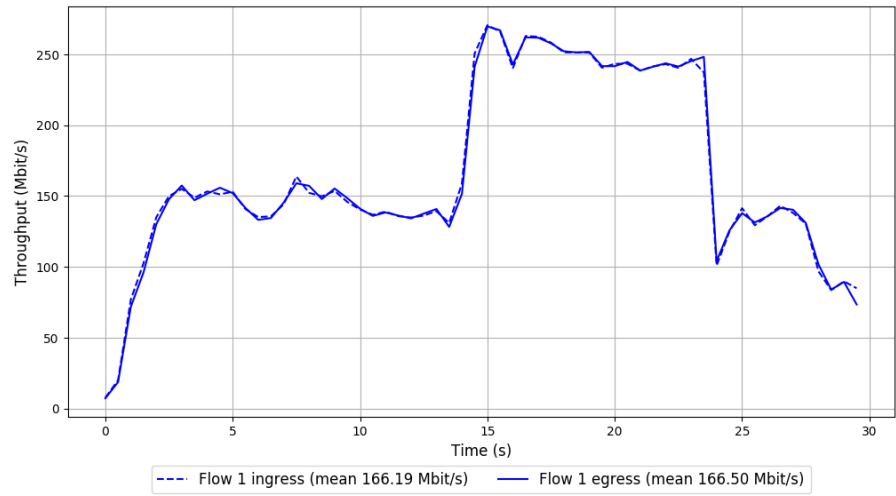
-- Flow 1:

Average throughput: 166.50 Mbit/s

95th percentile per-packet one-way delay: 63.734 ms

Loss rate: 0.24%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-13 12:09:08

End at: 2018-02-13 12:09:38

Below is generated by plot.py at 2018-02-13 16:36:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.45 Mbit/s

95th percentile per-packet one-way delay: 63.884 ms

Loss rate: 0.64%

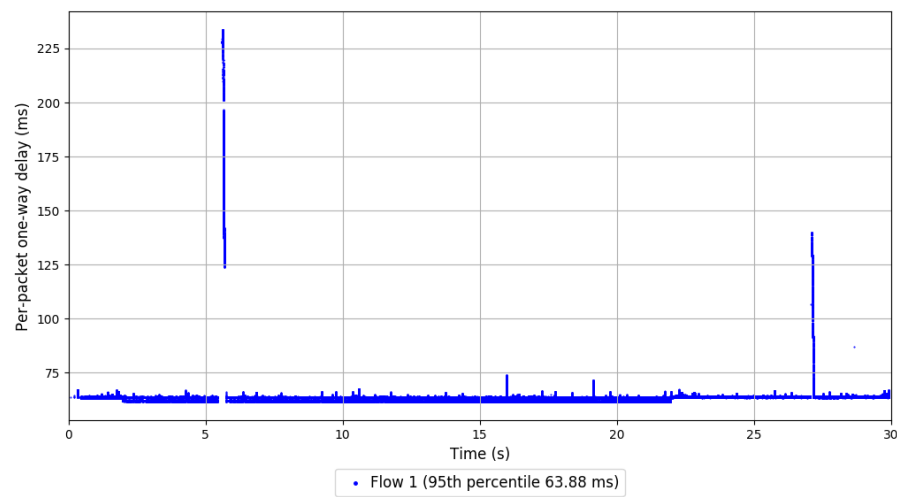
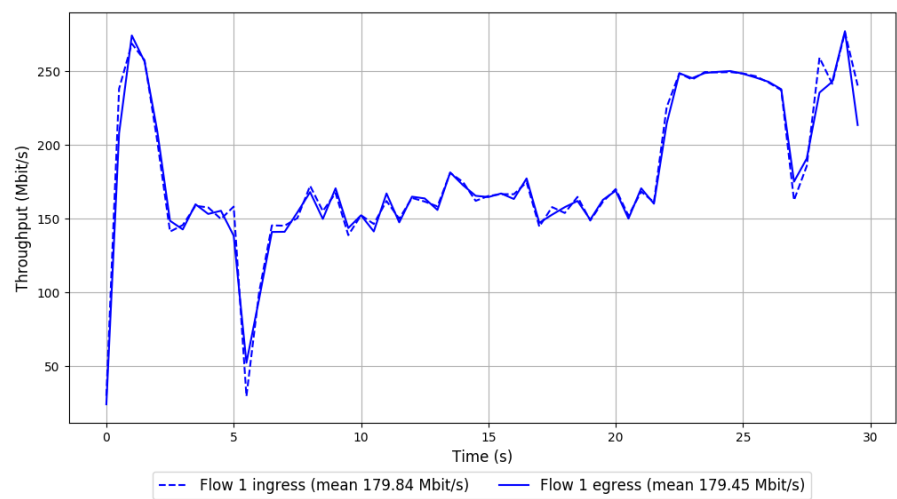
-- Flow 1:

Average throughput: 179.45 Mbit/s

95th percentile per-packet one-way delay: 63.884 ms

Loss rate: 0.64%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-13 12:23:41

End at: 2018-02-13 12:24:11

Below is generated by plot.py at 2018-02-13 16:36:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 63.548 ms

Loss rate: 0.59%

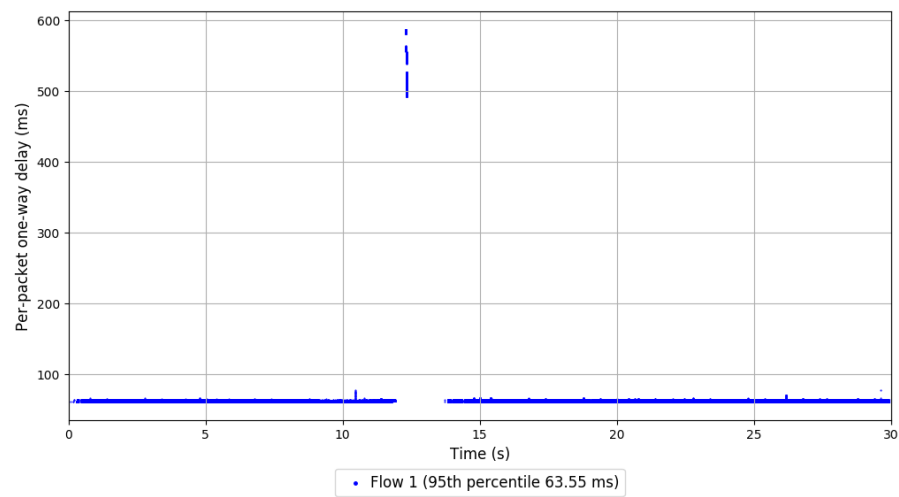
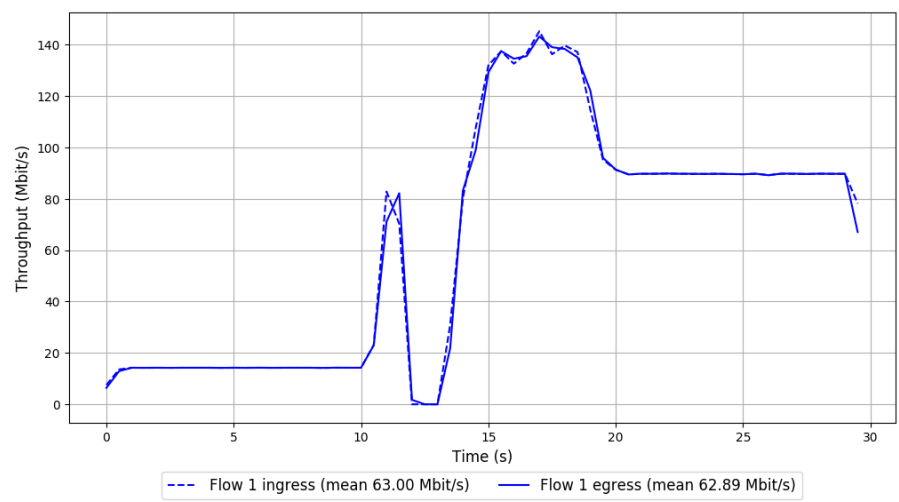
-- Flow 1:

Average throughput: 62.89 Mbit/s

95th percentile per-packet one-way delay: 63.548 ms

Loss rate: 0.59%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-13 12:38:33

End at: 2018-02-13 12:39:03

Below is generated by plot.py at 2018-02-13 16:36:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 63.515 ms

Loss rate: 1.52%

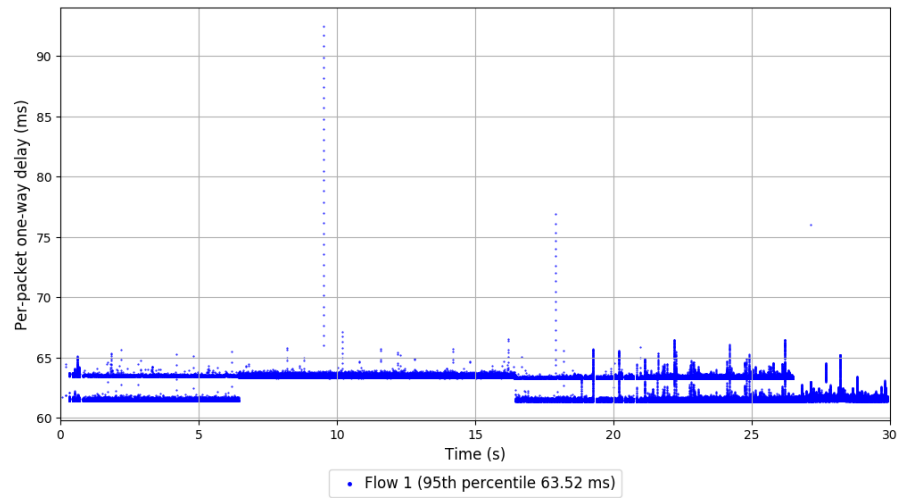
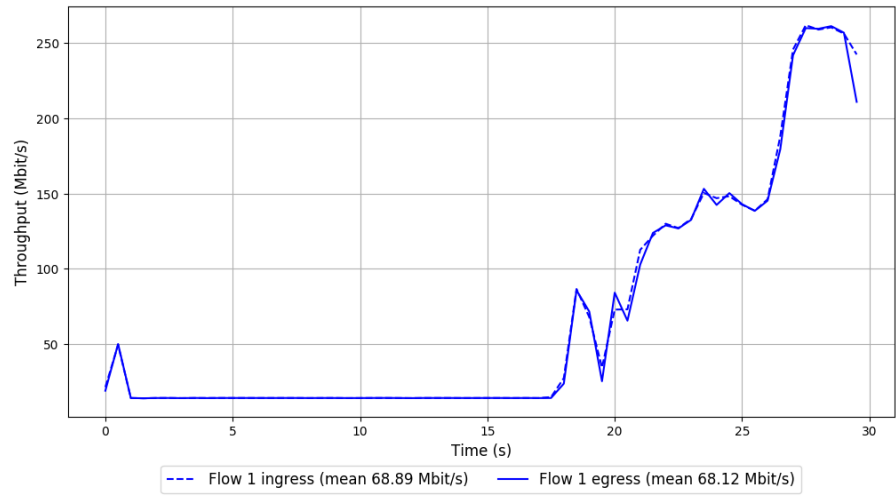
-- Flow 1:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 63.515 ms

Loss rate: 1.52%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-13 12:53:16

End at: 2018-02-13 12:53:46

Below is generated by plot.py at 2018-02-13 16:36:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.01 Mbit/s

95th percentile per-packet one-way delay: 63.453 ms

Loss rate: 0.57%

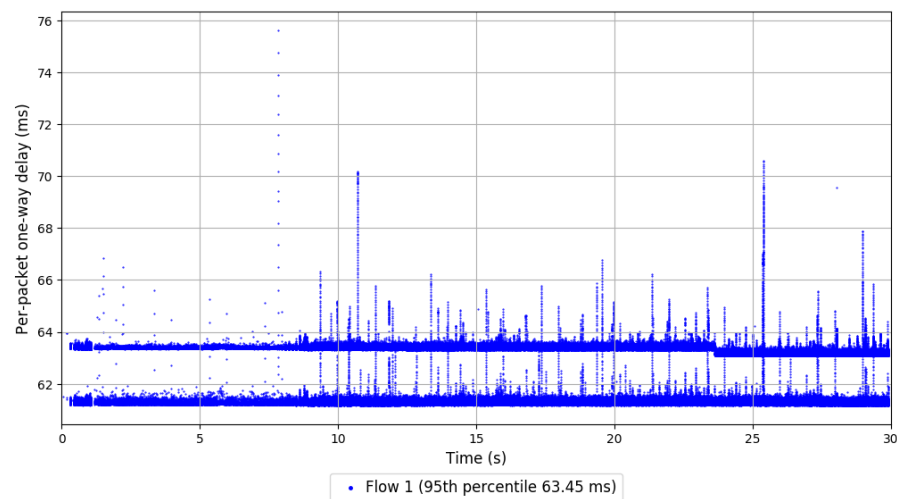
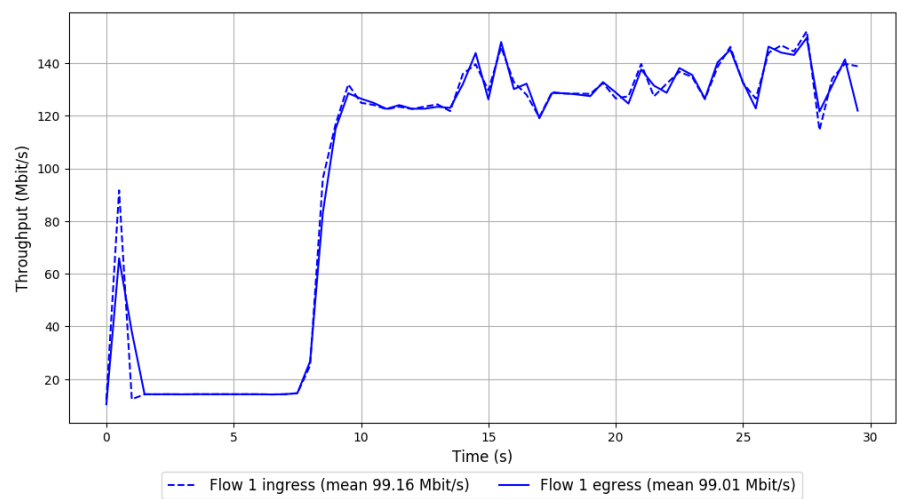
-- Flow 1:

Average throughput: 99.01 Mbit/s

95th percentile per-packet one-way delay: 63.453 ms

Loss rate: 0.57%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-13 13:08:01

End at: 2018-02-13 13:08:31

Below is generated by plot.py at 2018-02-13 16:38:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.27 Mbit/s

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

Loss rate: 0.25%

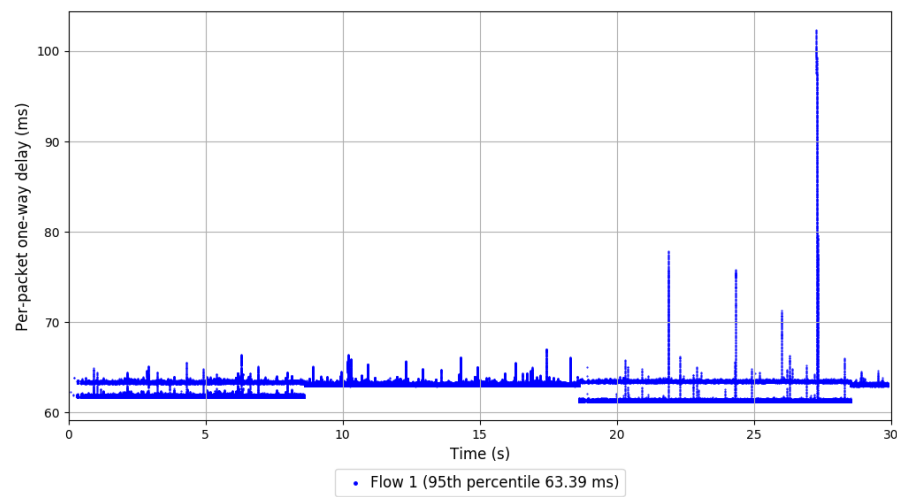
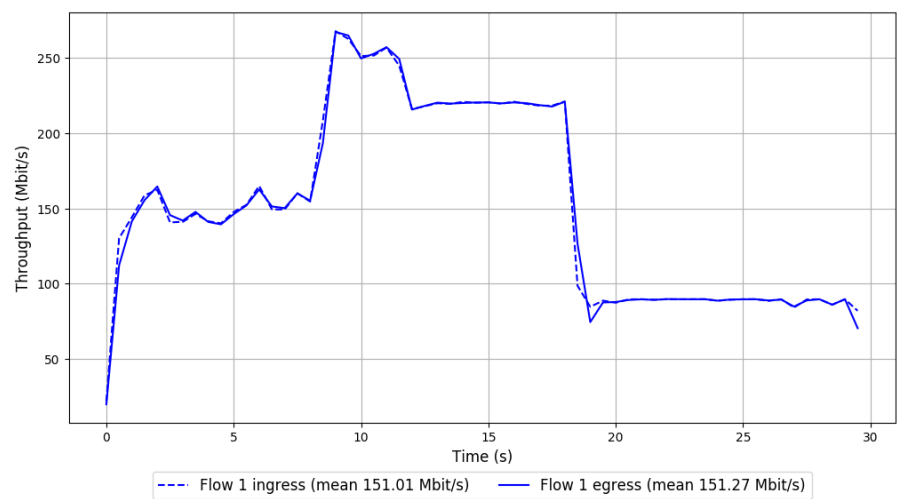
-- Flow 1:

Average throughput: 151.27 Mbit/s

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

Loss rate: 0.25%

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

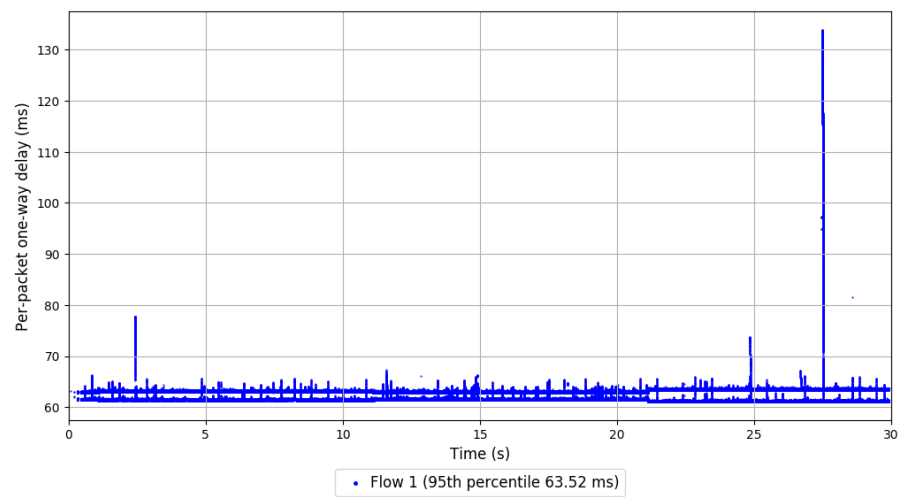
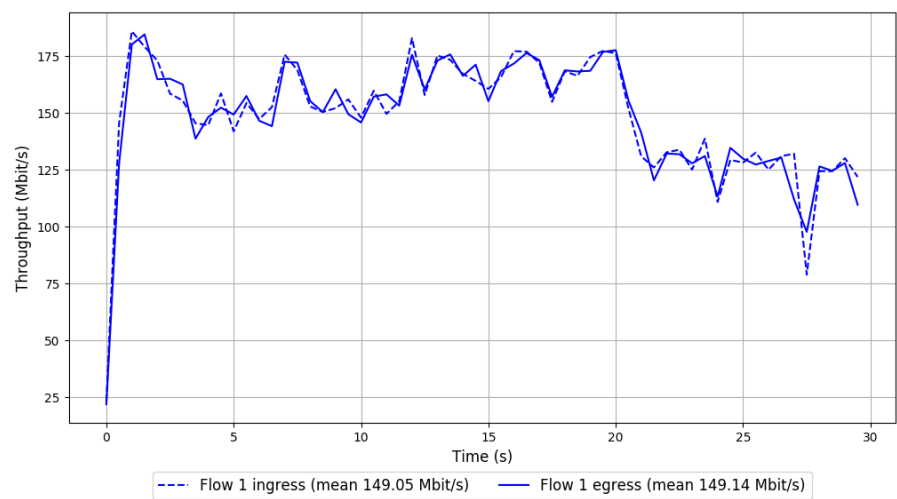


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-13 13:22:49
End at: 2018-02-13 13:23:19

# Below is generated by plot.py at 2018-02-13 16:38:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.14 Mbit/s
95th percentile per-packet one-way delay: 63.519 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 149.14 Mbit/s
95th percentile per-packet one-way delay: 63.519 ms
Loss rate: 0.31%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-13 11:19:24

End at: 2018-02-13 11:19:54

Below is generated by plot.py at 2018-02-13 16:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.91 Mbit/s

95th percentile per-packet one-way delay: 64.870 ms

Loss rate: 0.45%

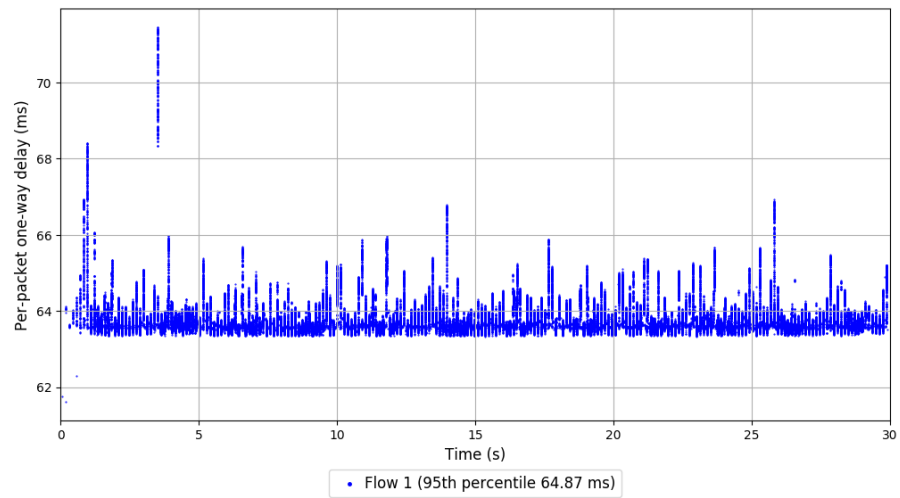
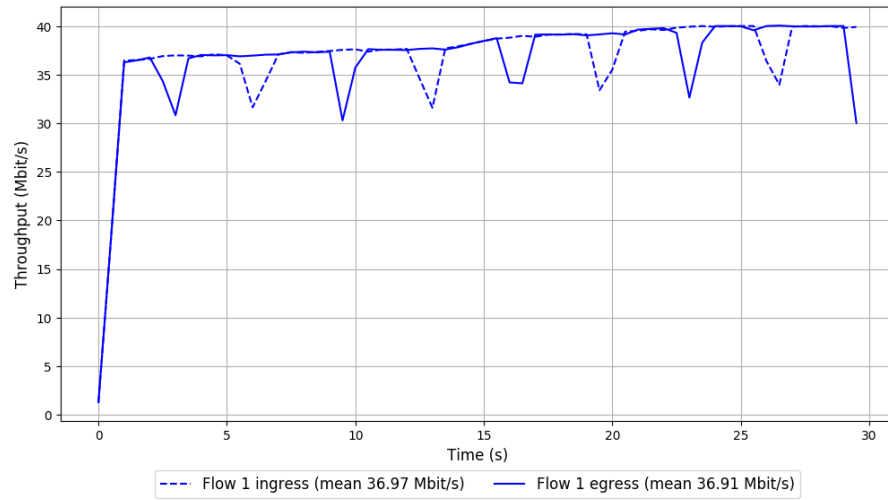
-- Flow 1:

Average throughput: 36.91 Mbit/s

95th percentile per-packet one-way delay: 64.870 ms

Loss rate: 0.45%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-13 11:34:03

End at: 2018-02-13 11:34:33

Below is generated by plot.py at 2018-02-13 16:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 69.301 ms

Loss rate: 0.19%

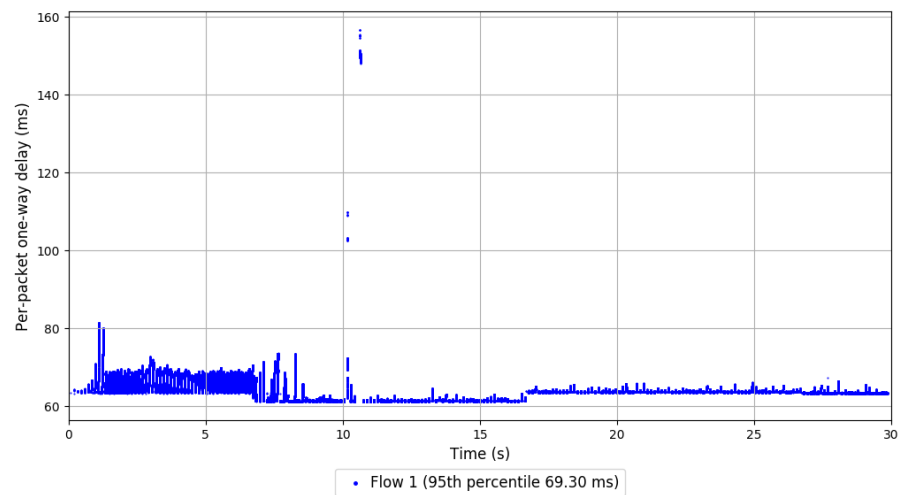
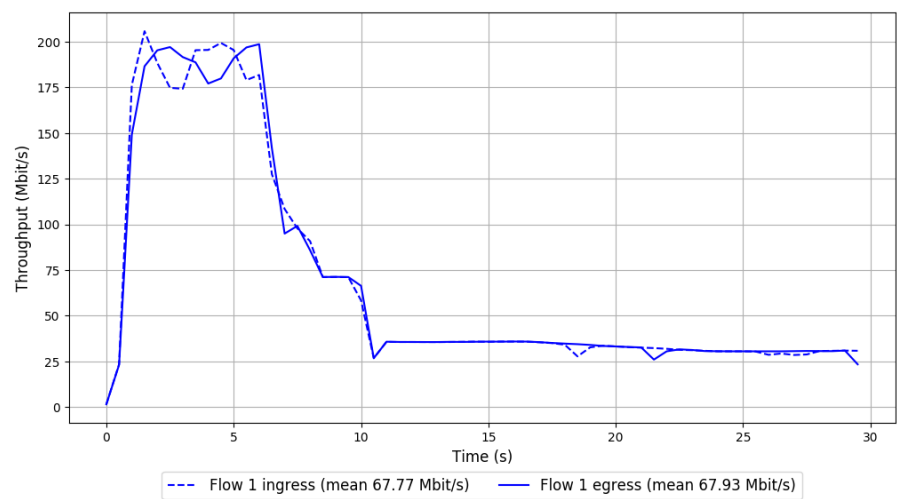
-- Flow 1:

Average throughput: 67.93 Mbit/s

95th percentile per-packet one-way delay: 69.301 ms

Loss rate: 0.19%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-13 11:48:56

End at: 2018-02-13 11:49:26

Below is generated by plot.py at 2018-02-13 16:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.39 Mbit/s

95th percentile per-packet one-way delay: 69.487 ms

Loss rate: 0.56%

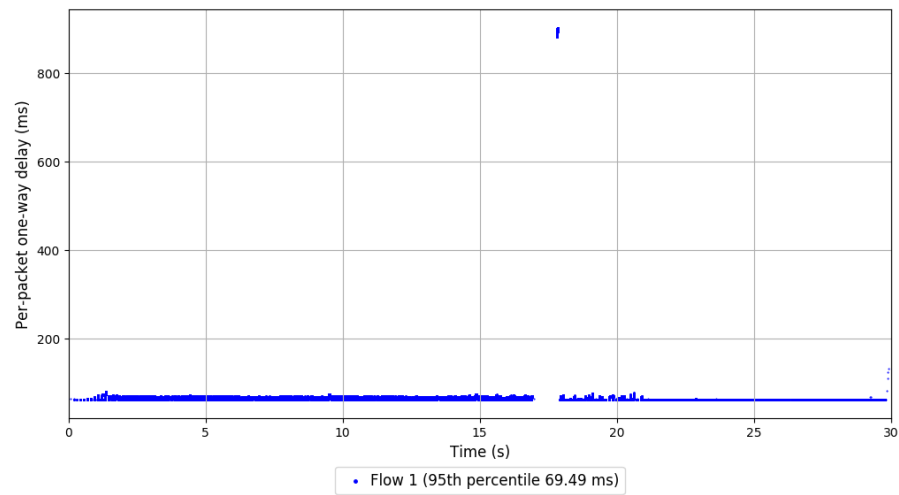
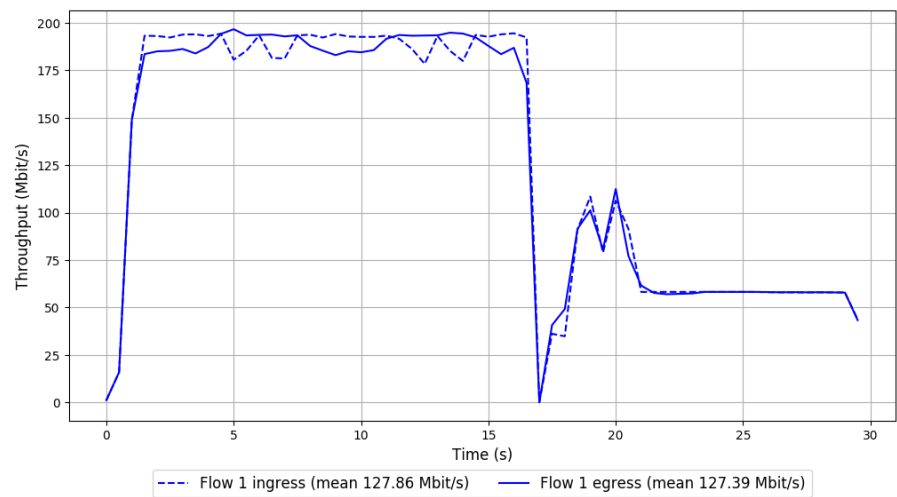
-- Flow 1:

Average throughput: 127.39 Mbit/s

95th percentile per-packet one-way delay: 69.487 ms

Loss rate: 0.56%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-13 12:03:43

End at: 2018-02-13 12:04:13

Below is generated by plot.py at 2018-02-13 16:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.77 Mbit/s

95th percentile per-packet one-way delay: 69.116 ms

Loss rate: 0.46%

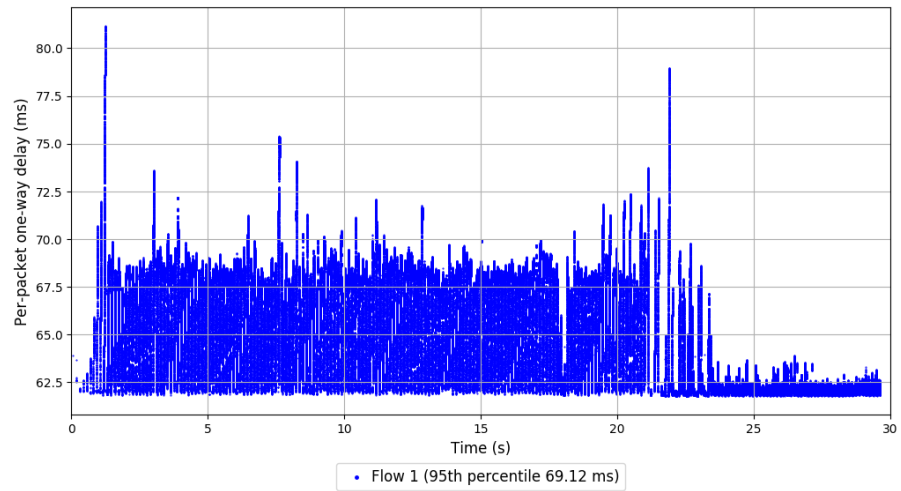
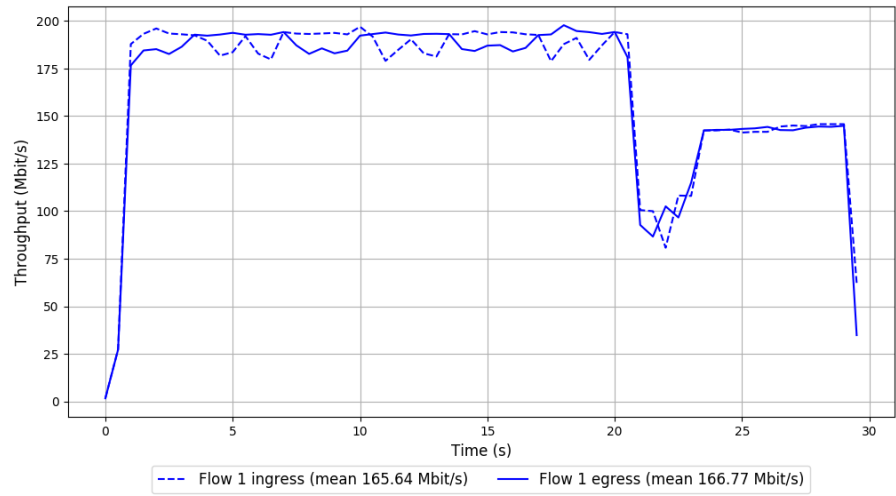
-- Flow 1:

Average throughput: 166.77 Mbit/s

95th percentile per-packet one-way delay: 69.116 ms

Loss rate: 0.46%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-13 12:18:21

End at: 2018-02-13 12:18:51

Below is generated by plot.py at 2018-02-13 16:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.91 Mbit/s

95th percentile per-packet one-way delay: 64.987 ms

Loss rate: 0.71%

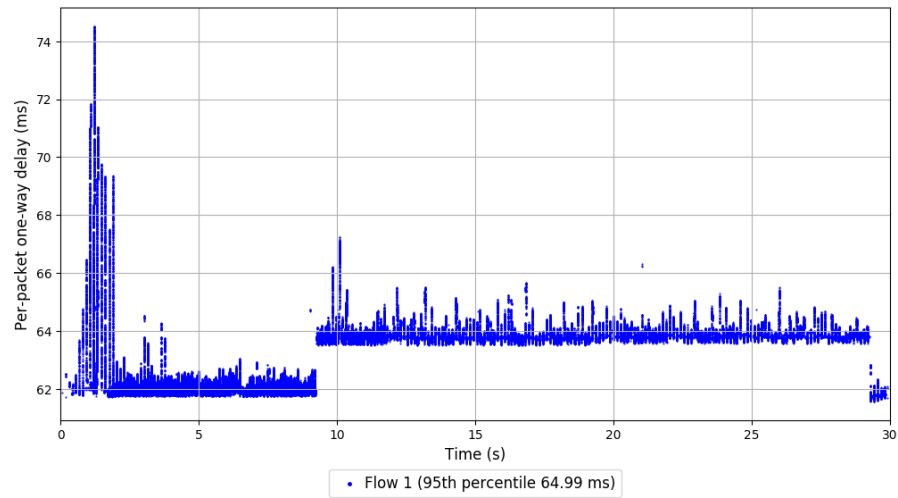
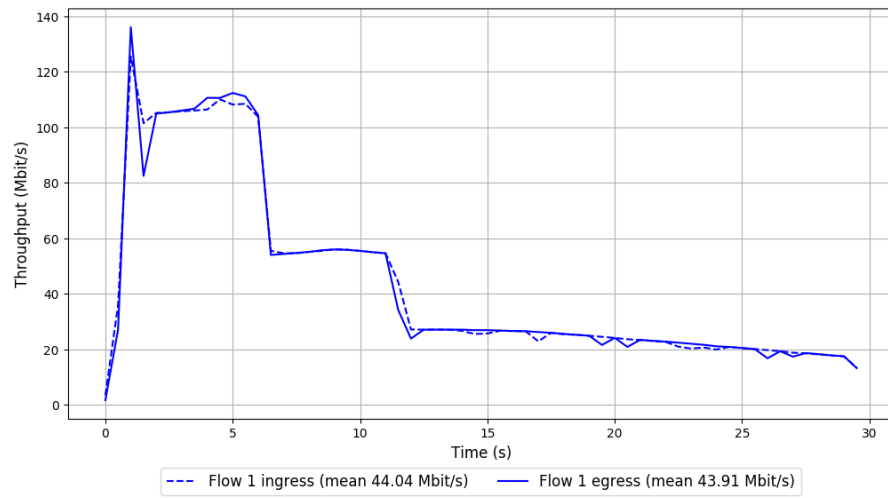
-- Flow 1:

Average throughput: 43.91 Mbit/s

95th percentile per-packet one-way delay: 64.987 ms

Loss rate: 0.71%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-13 12:32:56

End at: 2018-02-13 12:33:26

Below is generated by plot.py at 2018-02-13 16:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.93 Mbit/s

95th percentile per-packet one-way delay: 64.886 ms

Loss rate: 0.51%

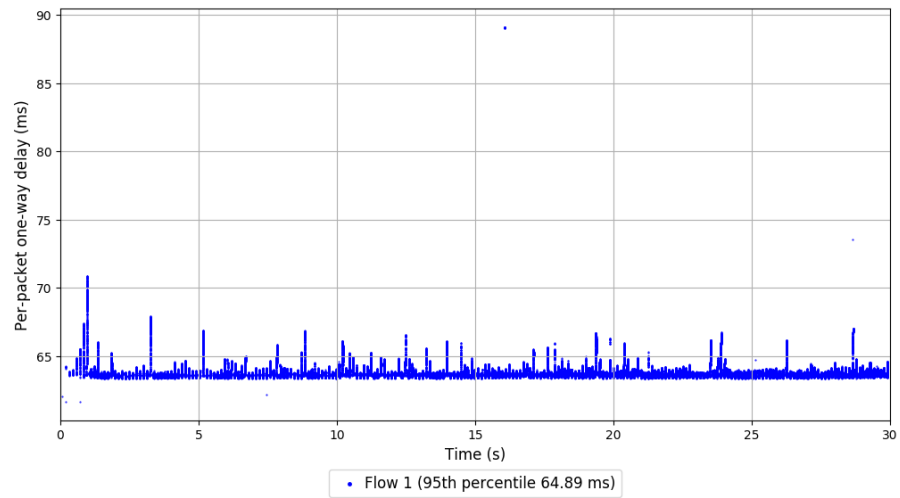
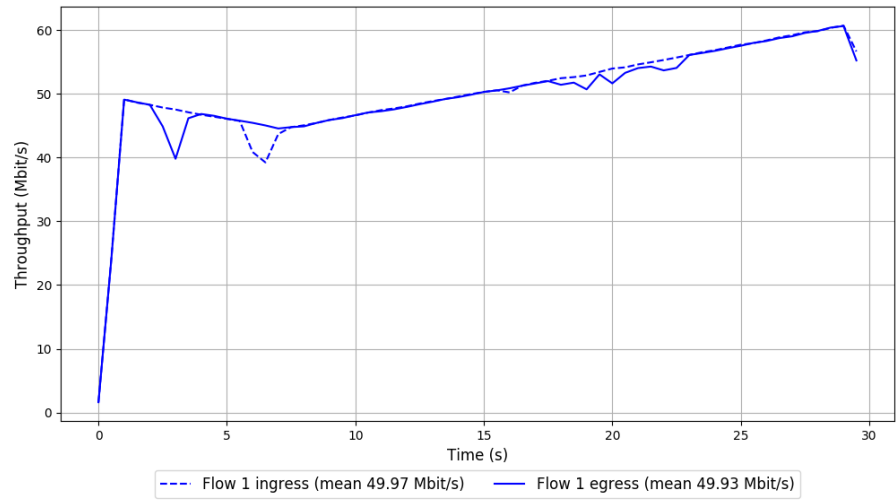
-- Flow 1:

Average throughput: 49.93 Mbit/s

95th percentile per-packet one-way delay: 64.886 ms

Loss rate: 0.51%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-13 12:47:42

End at: 2018-02-13 12:48:12

Below is generated by plot.py at 2018-02-13 16:38:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.66 Mbit/s

95th percentile per-packet one-way delay: 65.180 ms

Loss rate: 0.34%

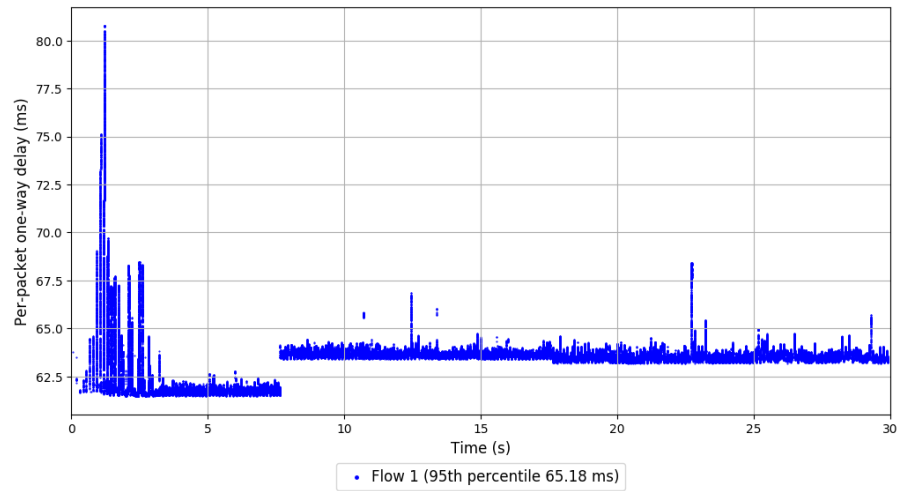
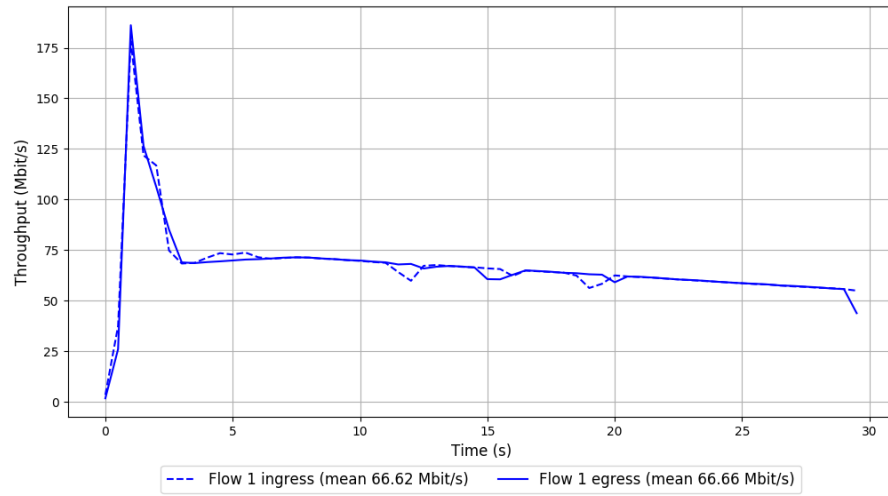
-- Flow 1:

Average throughput: 66.66 Mbit/s

95th percentile per-packet one-way delay: 65.180 ms

Loss rate: 0.34%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-13 13:02:26

End at: 2018-02-13 13:02:56

Below is generated by plot.py at 2018-02-13 16:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.05 Mbit/s

95th percentile per-packet one-way delay: 70.729 ms

Loss rate: 0.44%

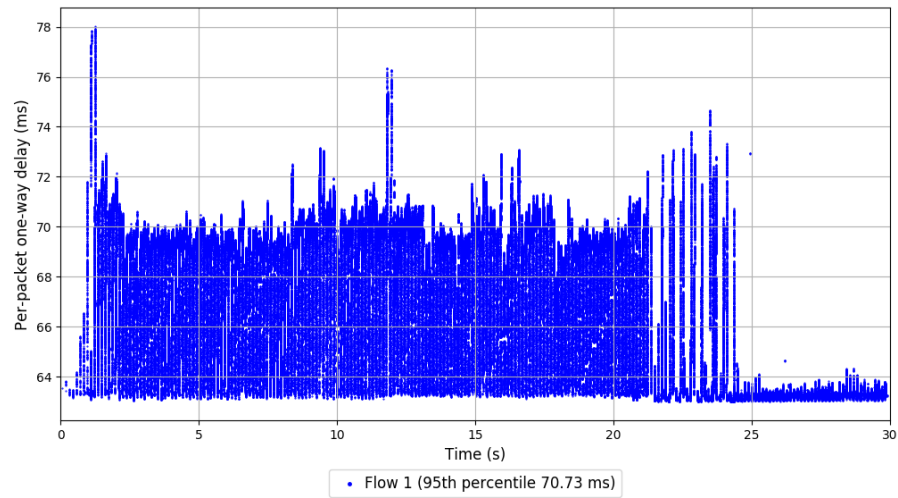
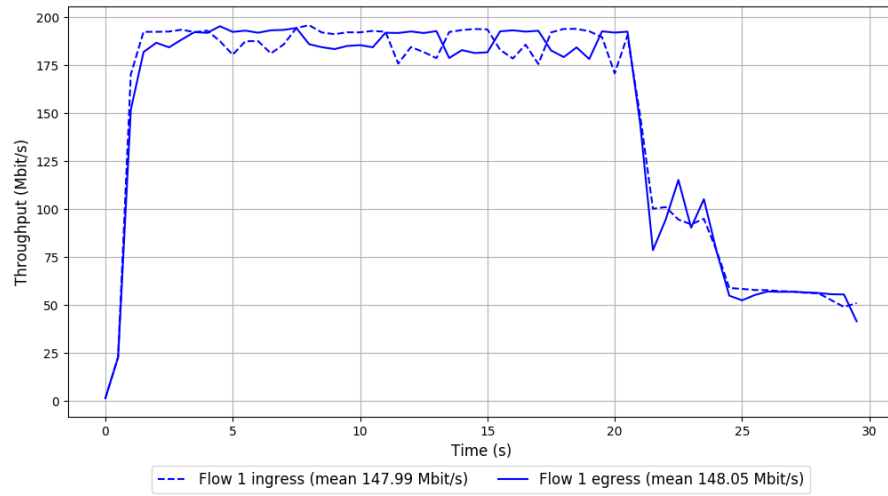
-- Flow 1:

Average throughput: 148.05 Mbit/s

95th percentile per-packet one-way delay: 70.729 ms

Loss rate: 0.44%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-13 13:17:18

End at: 2018-02-13 13:17:48

Below is generated by plot.py at 2018-02-13 16:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.36 Mbit/s

95th percentile per-packet one-way delay: 62.846 ms

Loss rate: 0.45%

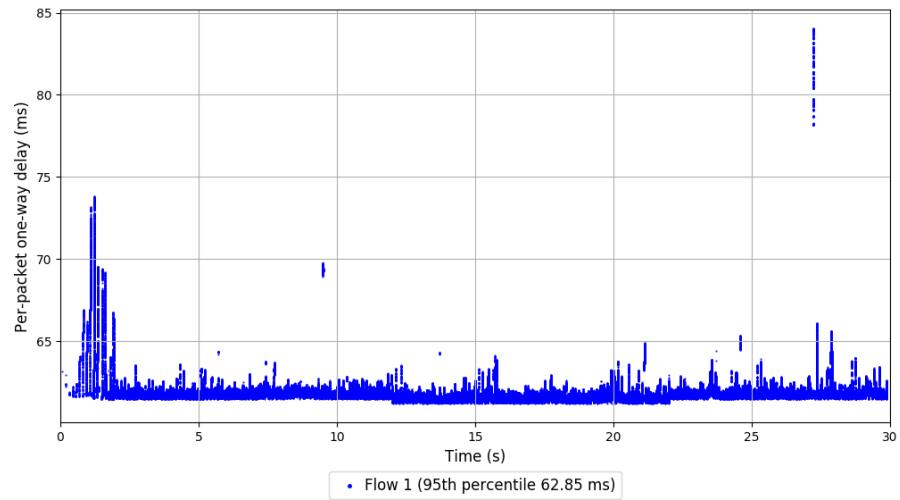
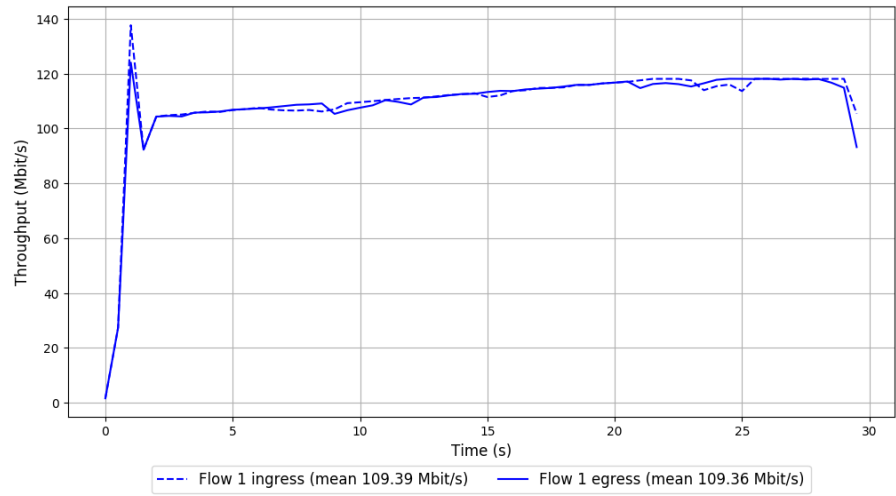
-- Flow 1:

Average throughput: 109.36 Mbit/s

95th percentile per-packet one-way delay: 62.846 ms

Loss rate: 0.45%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-13 13:31:41

End at: 2018-02-13 13:32:11

Below is generated by plot.py at 2018-02-13 16:38:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.14 Mbit/s

95th percentile per-packet one-way delay: 64.131 ms

Loss rate: 0.16%

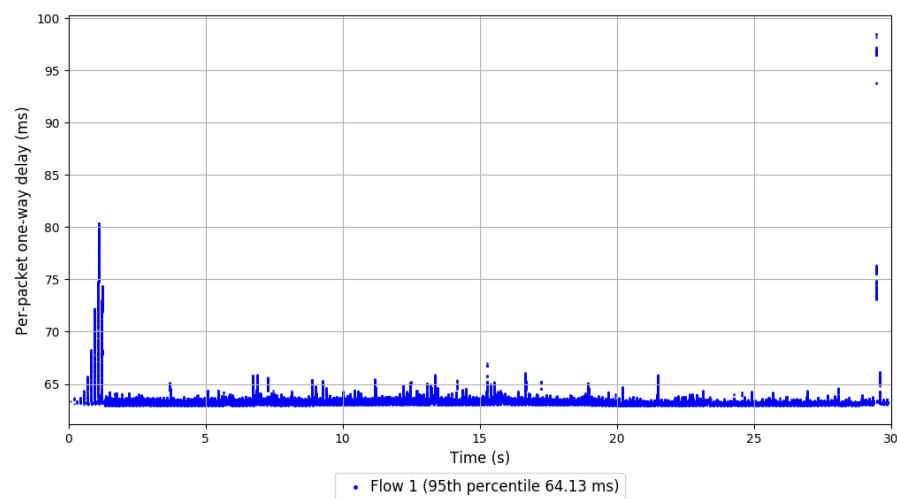
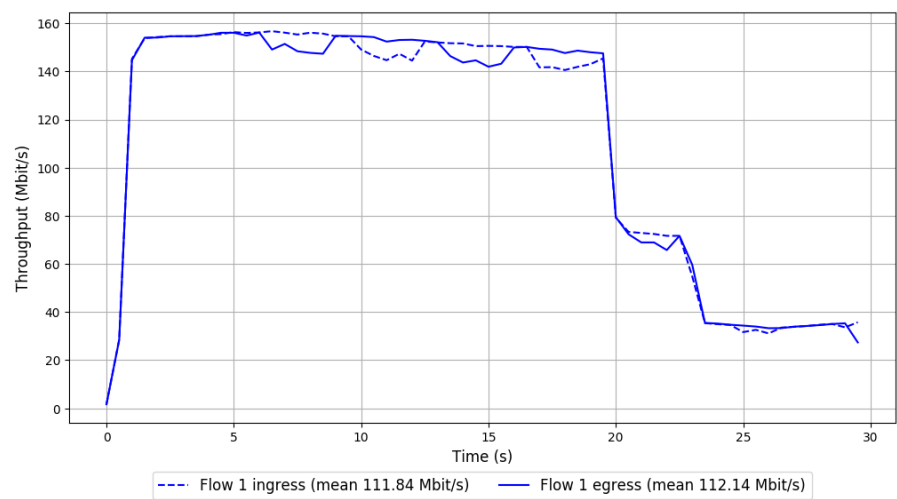
-- Flow 1:

Average throughput: 112.14 Mbit/s

95th percentile per-packet one-way delay: 64.131 ms

Loss rate: 0.16%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-13 11:16:46

End at: 2018-02-13 11:17:16

Below is generated by plot.py at 2018-02-13 16:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 246.60 Mbit/s

95th percentile per-packet one-way delay: 172.652 ms

Loss rate: 0.65%

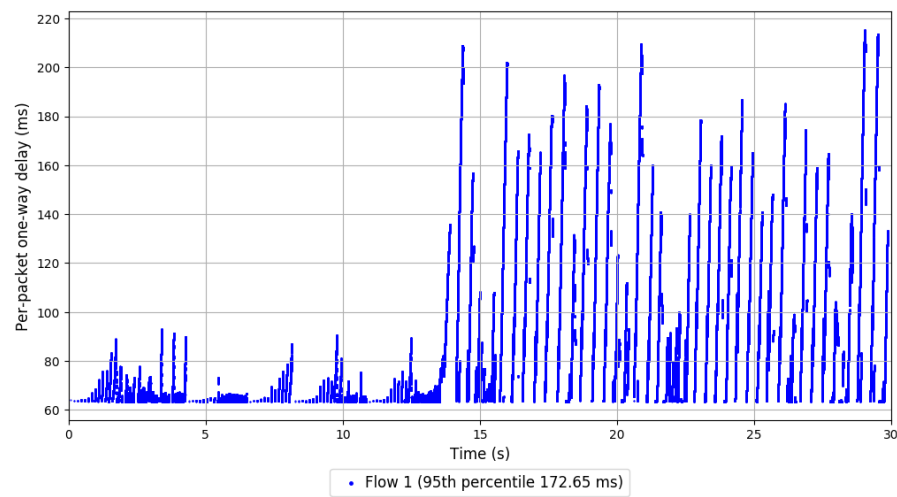
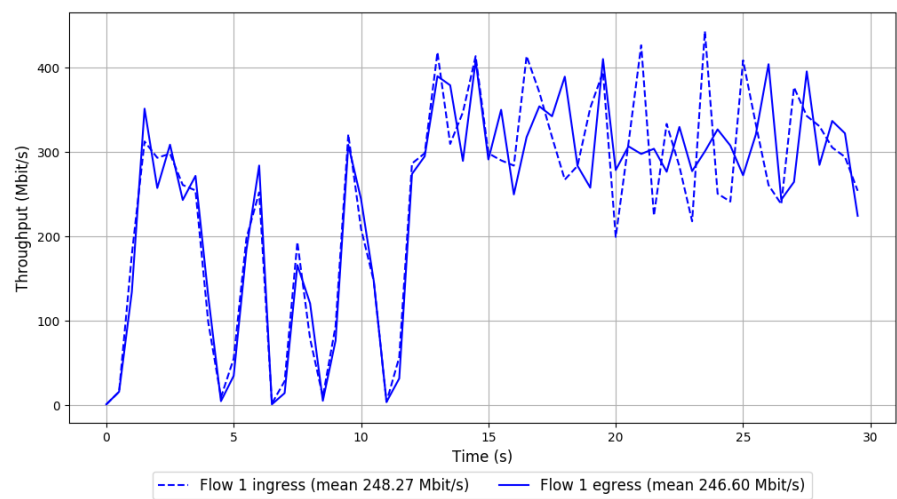
-- Flow 1:

Average throughput: 246.60 Mbit/s

95th percentile per-packet one-way delay: 172.652 ms

Loss rate: 0.65%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-13 11:31:28

End at: 2018-02-13 11:31:58

Below is generated by plot.py at 2018-02-13 16:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.13 Mbit/s

95th percentile per-packet one-way delay: 85.528 ms

Loss rate: 0.55%

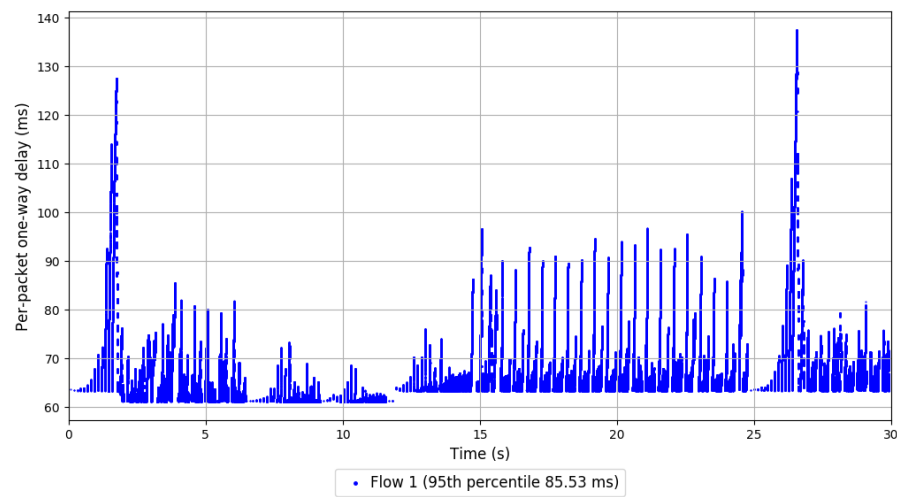
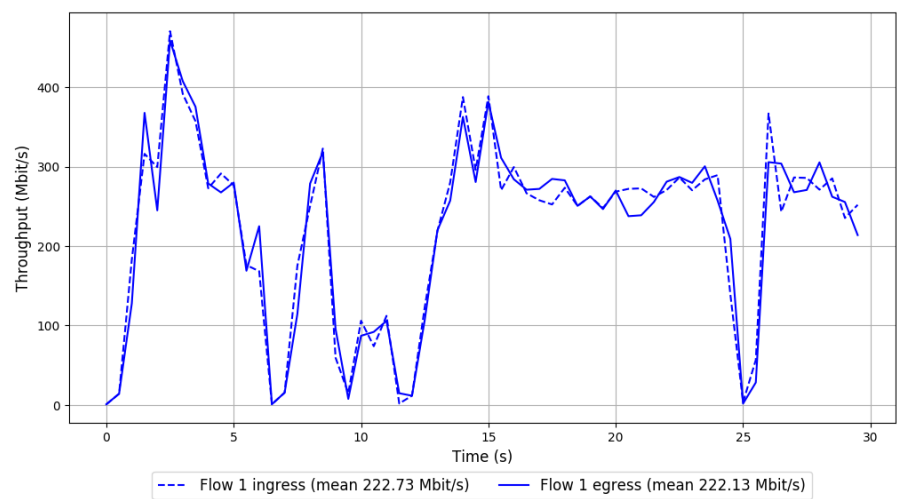
-- Flow 1:

Average throughput: 222.13 Mbit/s

95th percentile per-packet one-way delay: 85.528 ms

Loss rate: 0.55%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-13 11:46:22

End at: 2018-02-13 11:46:52

Below is generated by plot.py at 2018-02-13 16:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.34 Mbit/s

95th percentile per-packet one-way delay: 103.464 ms

Loss rate: 0.65%

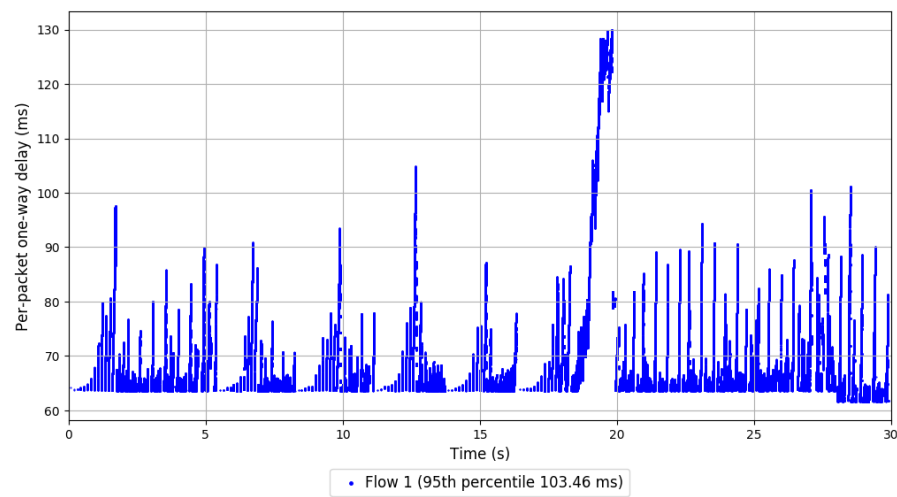
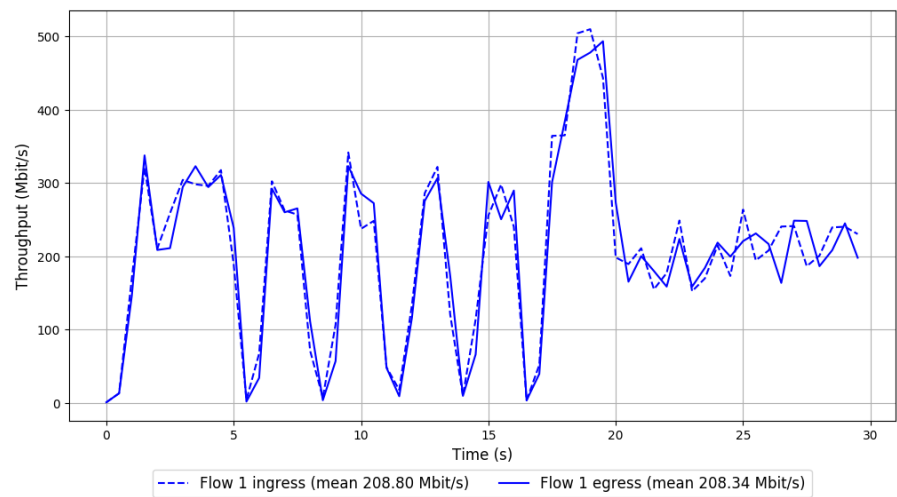
-- Flow 1:

Average throughput: 208.34 Mbit/s

95th percentile per-packet one-way delay: 103.464 ms

Loss rate: 0.65%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-13 12:01:10

End at: 2018-02-13 12:01:40

Below is generated by plot.py at 2018-02-13 16:40:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.47 Mbit/s

95th percentile per-packet one-way delay: 113.448 ms

Loss rate: 0.25%

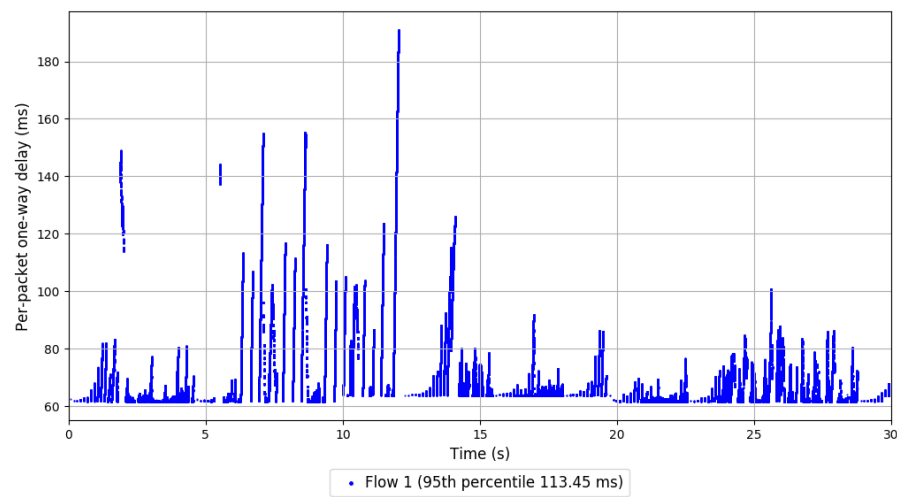
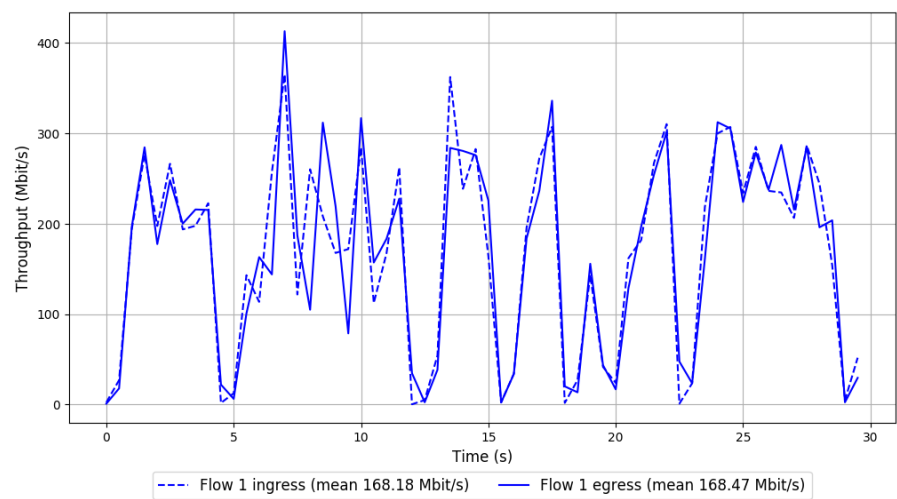
-- Flow 1:

Average throughput: 168.47 Mbit/s

95th percentile per-packet one-way delay: 113.448 ms

Loss rate: 0.25%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-13 12:15:45

End at: 2018-02-13 12:16:15

Below is generated by plot.py at 2018-02-13 16:41:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.00 Mbit/s

95th percentile per-packet one-way delay: 136.570 ms

Loss rate: 0.96%

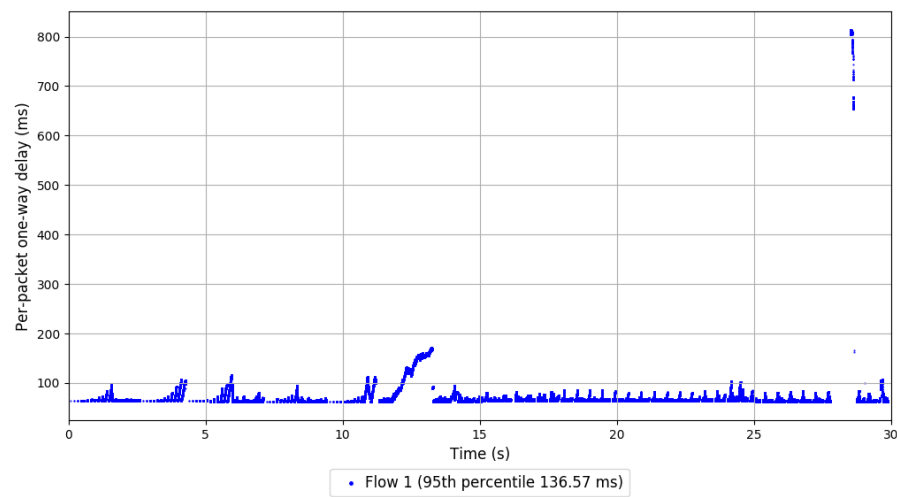
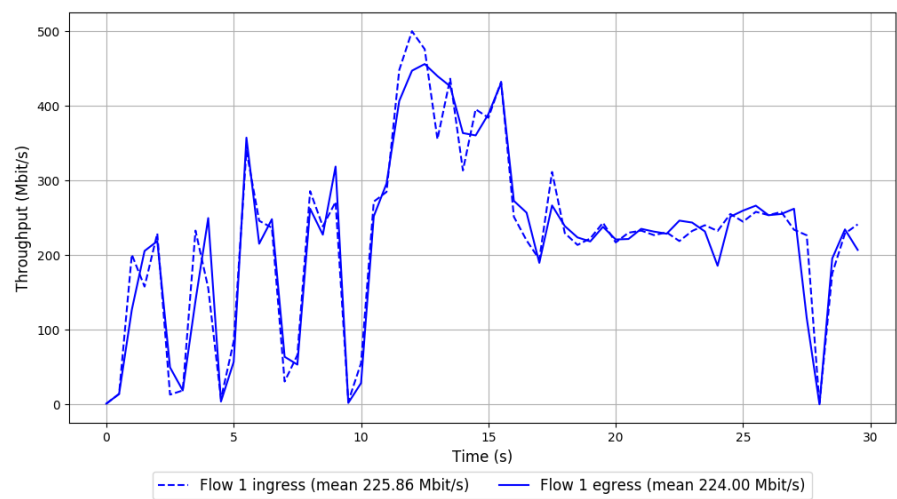
-- Flow 1:

Average throughput: 224.00 Mbit/s

95th percentile per-packet one-way delay: 136.570 ms

Loss rate: 0.96%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-13 12:30:14

End at: 2018-02-13 12:30:44

Below is generated by plot.py at 2018-02-13 16:42:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.11 Mbit/s

95th percentile per-packet one-way delay: 126.814 ms

Loss rate: 0.32%

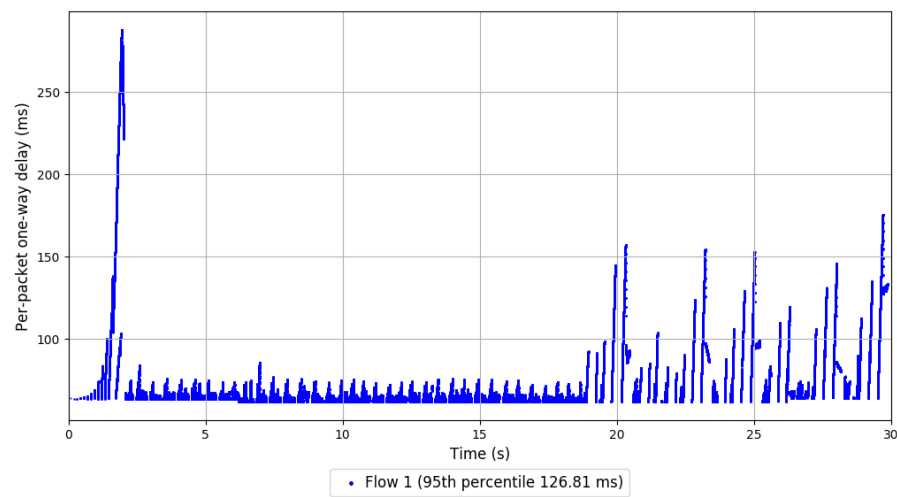
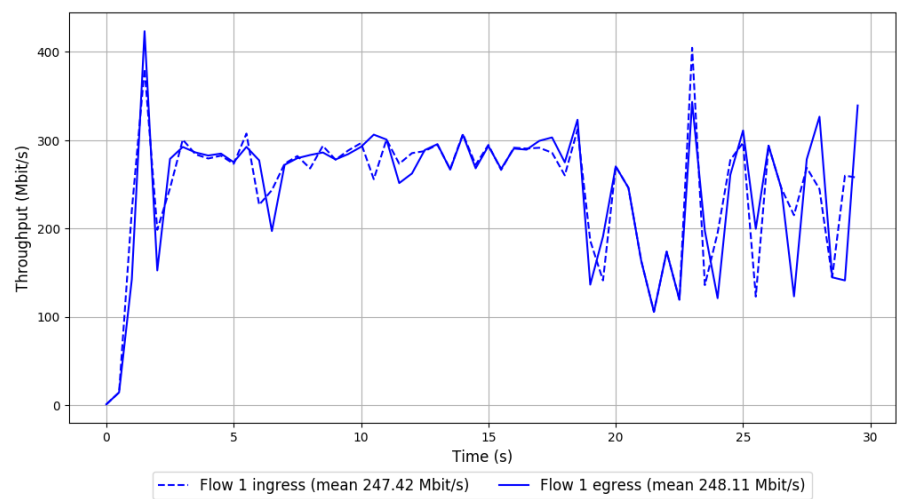
-- Flow 1:

Average throughput: 248.11 Mbit/s

95th percentile per-packet one-way delay: 126.814 ms

Loss rate: 0.32%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-13 12:45:07

End at: 2018-02-13 12:45:37

Below is generated by plot.py at 2018-02-13 16:42:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.54 Mbit/s

95th percentile per-packet one-way delay: 133.614 ms

Loss rate: 1.21%

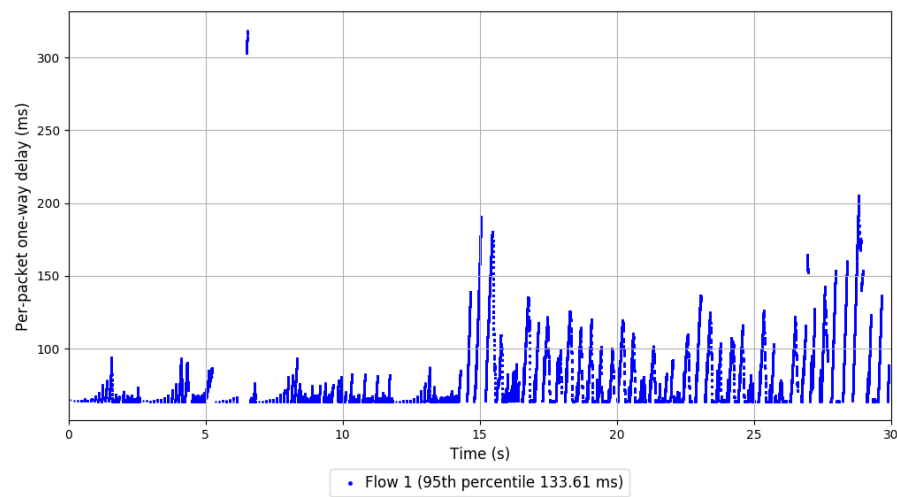
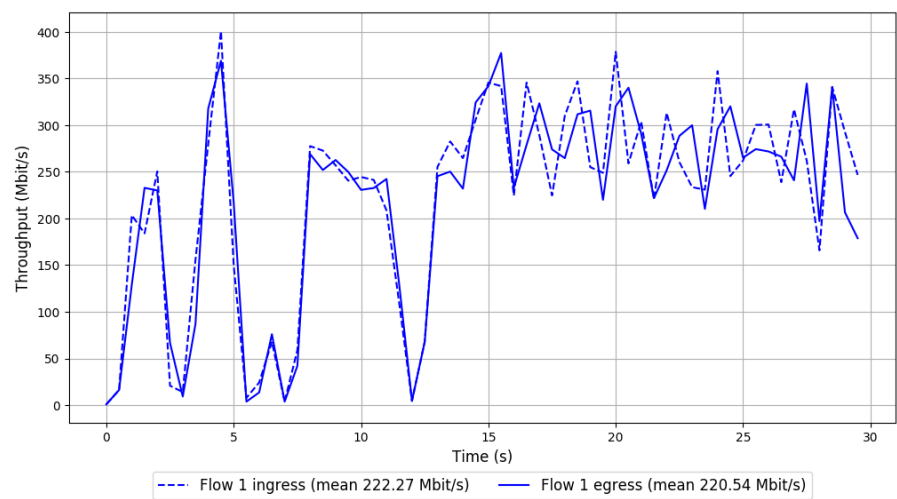
-- Flow 1:

Average throughput: 220.54 Mbit/s

95th percentile per-packet one-way delay: 133.614 ms

Loss rate: 1.21%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-13 12:59:50

End at: 2018-02-13 13:00:20

Below is generated by plot.py at 2018-02-13 16:42:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.81 Mbit/s

95th percentile per-packet one-way delay: 114.478 ms

Loss rate: 0.57%

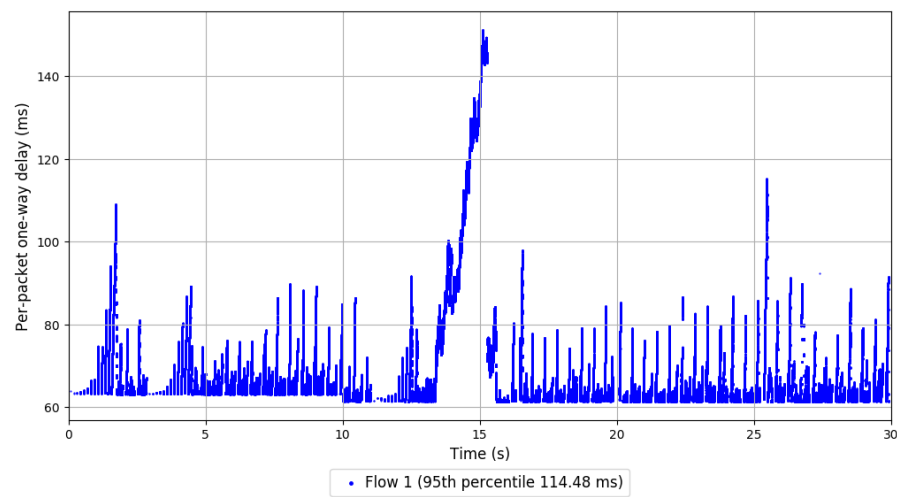
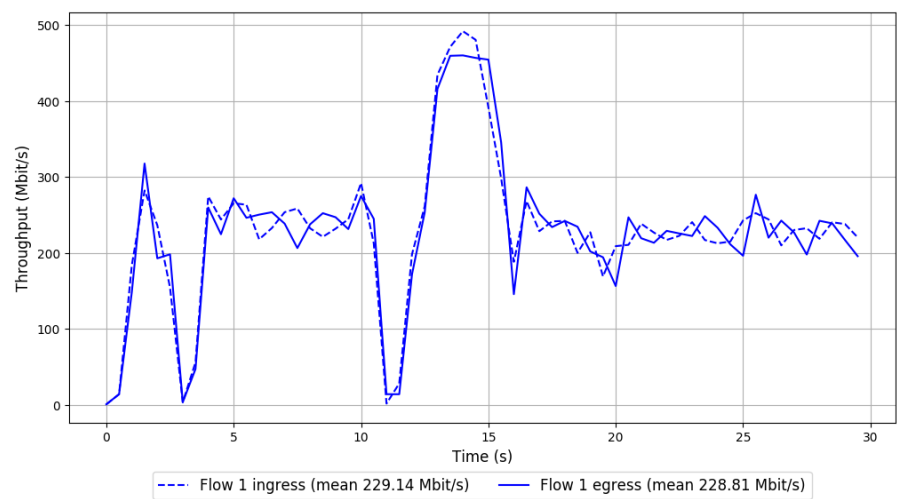
-- Flow 1:

Average throughput: 228.81 Mbit/s

95th percentile per-packet one-way delay: 114.478 ms

Loss rate: 0.57%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-13 13:14:40

End at: 2018-02-13 13:15:10

Below is generated by plot.py at 2018-02-13 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.22 Mbit/s

95th percentile per-packet one-way delay: 94.946 ms

Loss rate: 0.96%

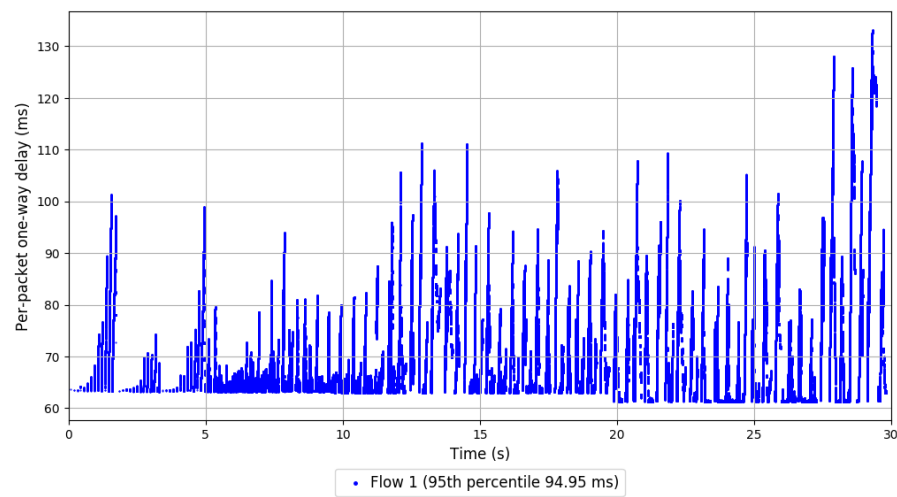
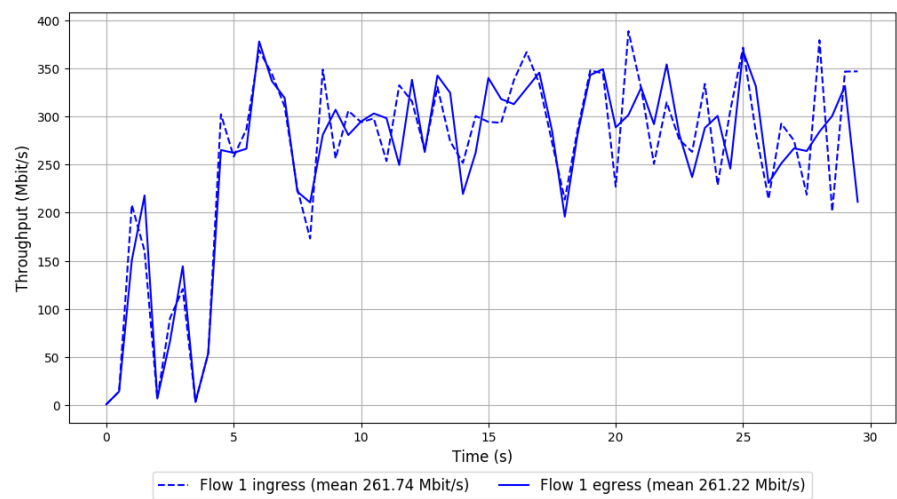
-- Flow 1:

Average throughput: 261.22 Mbit/s

95th percentile per-packet one-way delay: 94.946 ms

Loss rate: 0.96%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-13 13:29:08

End at: 2018-02-13 13:29:38

Below is generated by plot.py at 2018-02-13 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.71 Mbit/s

95th percentile per-packet one-way delay: 197.364 ms

Loss rate: 0.47%

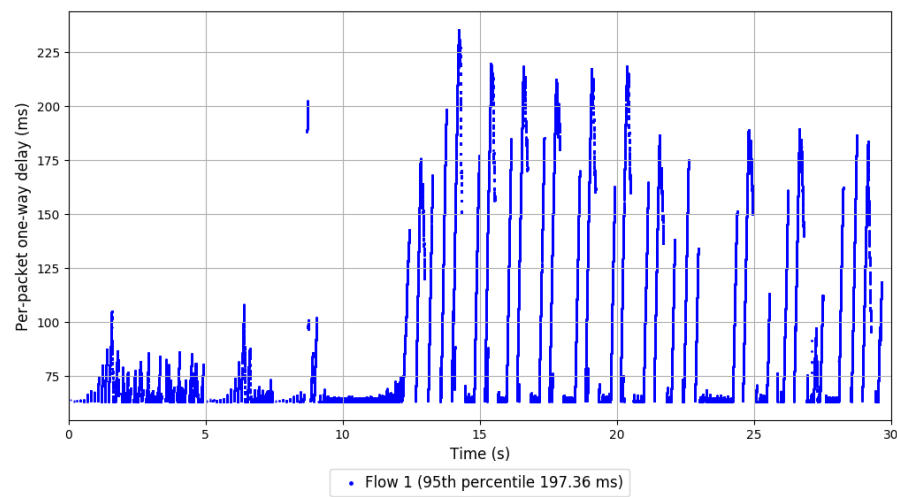
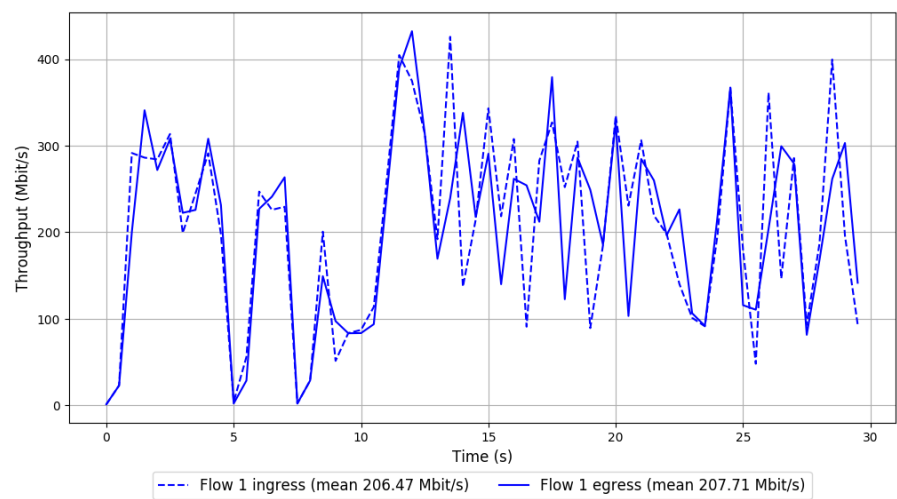
-- Flow 1:

Average throughput: 207.71 Mbit/s

95th percentile per-packet one-way delay: 197.364 ms

Loss rate: 0.47%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-13 11:16:00

End at: 2018-02-13 11:16:30

Below is generated by plot.py at 2018-02-13 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 63.424 ms

Loss rate: 1.12%

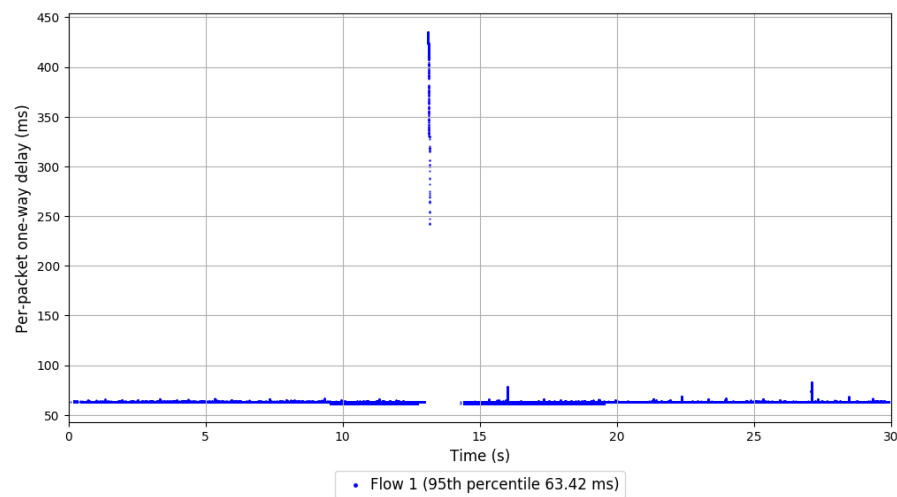
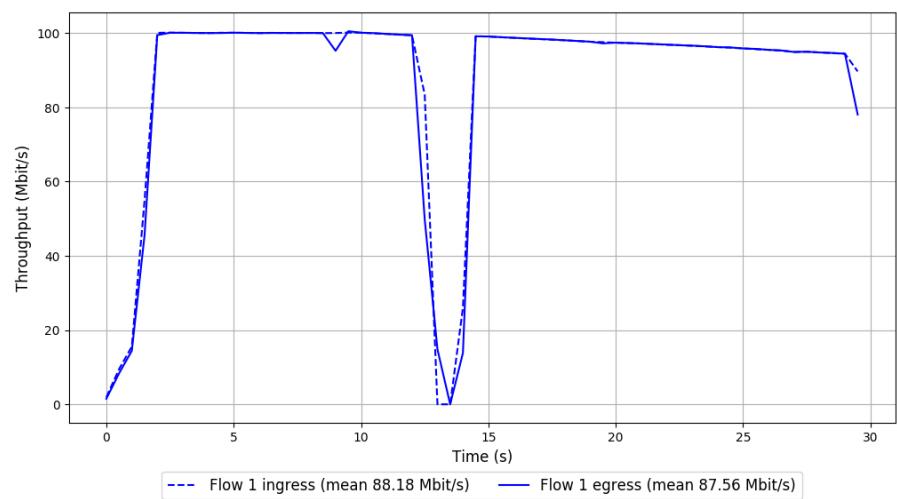
-- Flow 1:

Average throughput: 87.56 Mbit/s

95th percentile per-packet one-way delay: 63.424 ms

Loss rate: 1.12%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-13 11:30:48

End at: 2018-02-13 11:31:18

Below is generated by plot.py at 2018-02-13 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 1.64%

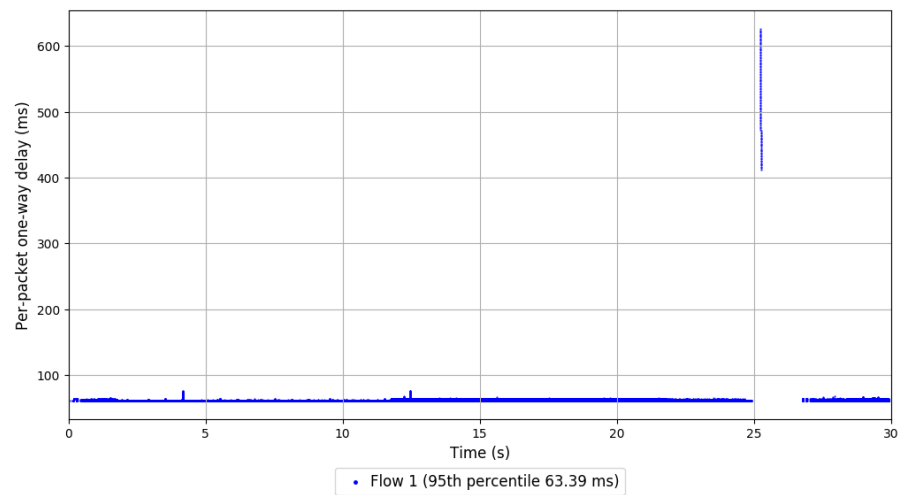
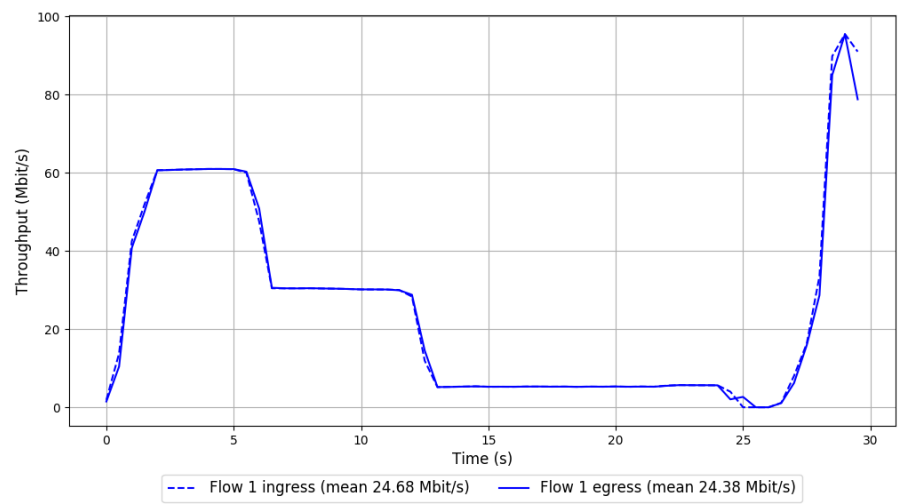
-- Flow 1:

Average throughput: 24.38 Mbit/s

95th percentile per-packet one-way delay: 63.393 ms

Loss rate: 1.64%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-13 11:45:39

End at: 2018-02-13 11:46:09

Below is generated by plot.py at 2018-02-13 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.65 Mbit/s

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

Loss rate: 0.02%

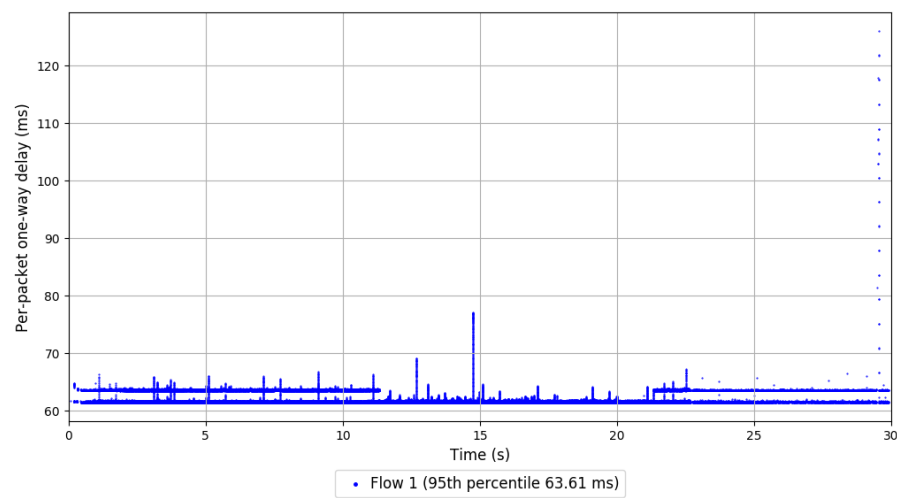
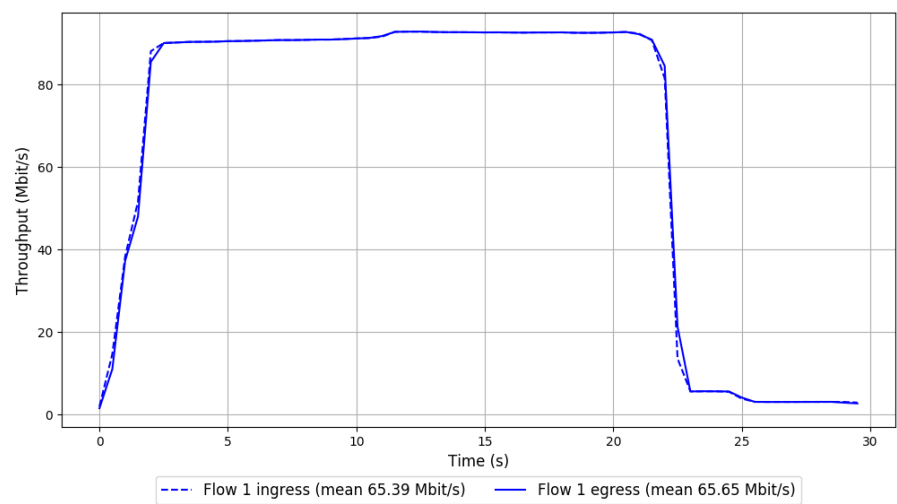
-- Flow 1:

Average throughput: 65.65 Mbit/s

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

Loss rate: 0.02%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-13 12:00:29

End at: 2018-02-13 12:00:59

Below is generated by plot.py at 2018-02-13 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.75 Mbit/s

95th percentile per-packet one-way delay: 63.840 ms

Loss rate: 0.47%

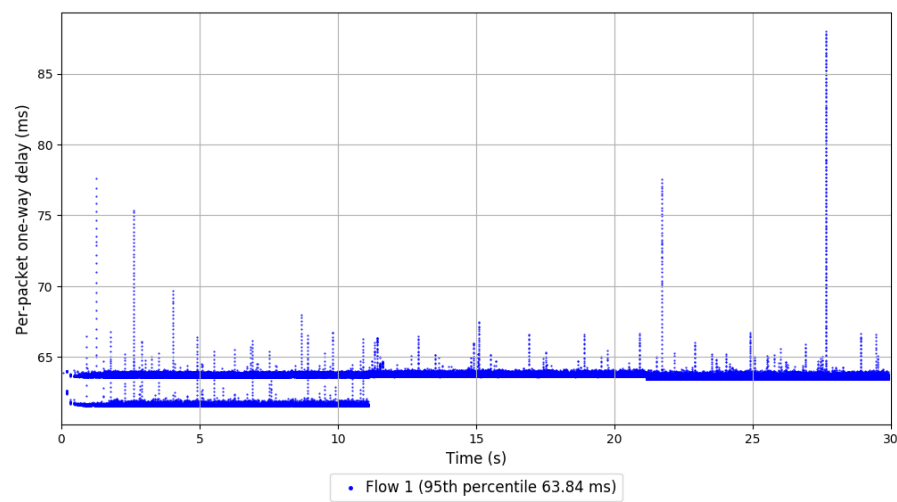
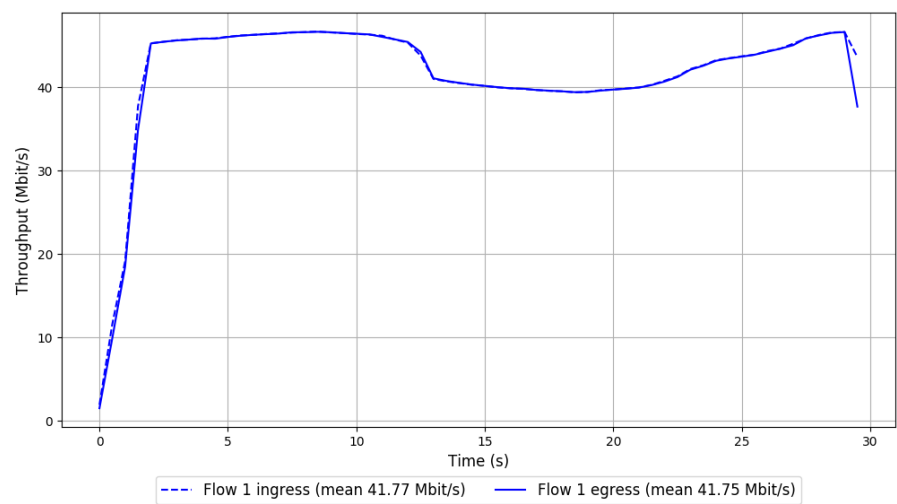
-- Flow 1:

Average throughput: 41.75 Mbit/s

95th percentile per-packet one-way delay: 63.840 ms

Loss rate: 0.47%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-13 12:15:05

End at: 2018-02-13 12:15:35

Below is generated by plot.py at 2018-02-13 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.01 Mbit/s

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

Loss rate: 1.32%

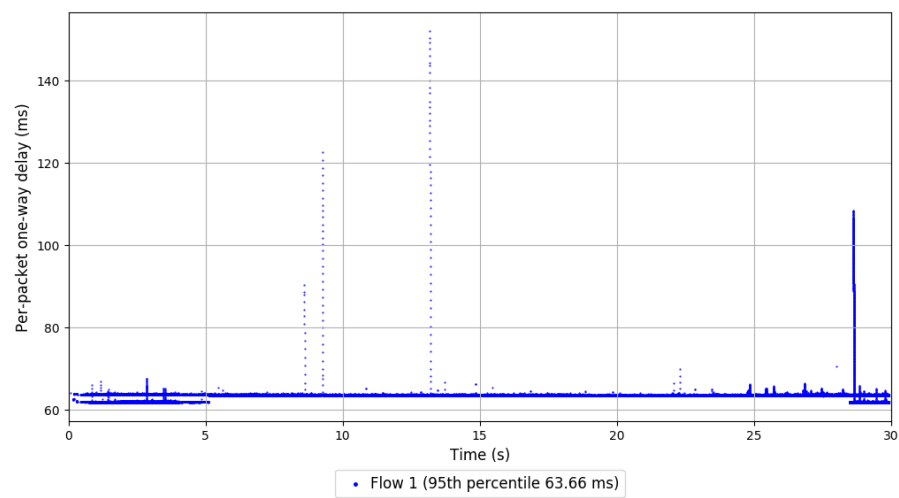
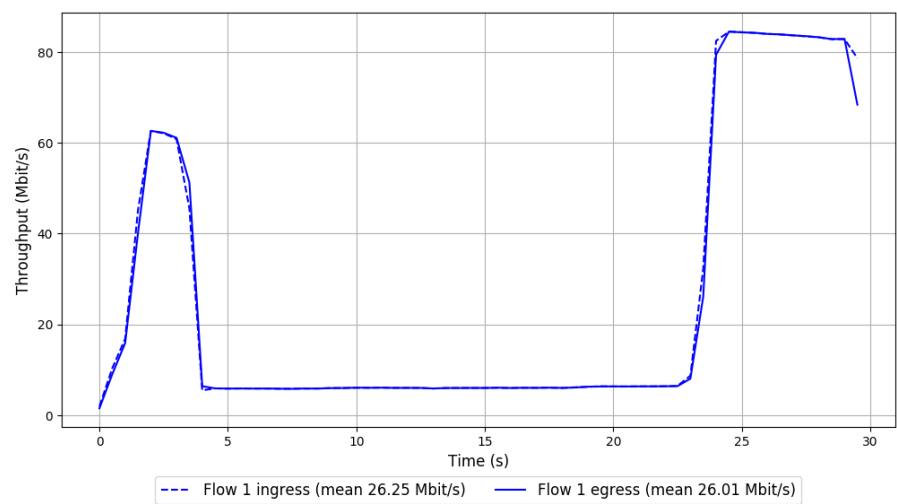
-- Flow 1:

Average throughput: 26.01 Mbit/s

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

Loss rate: 1.32%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-13 12:29:31

End at: 2018-02-13 12:30:01

Below is generated by plot.py at 2018-02-13 16:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 63.529 ms

Loss rate: 0.24%

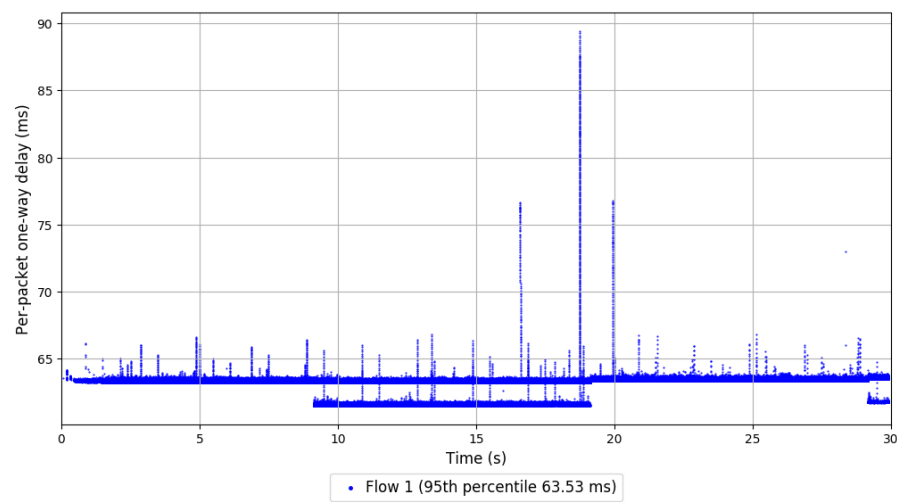
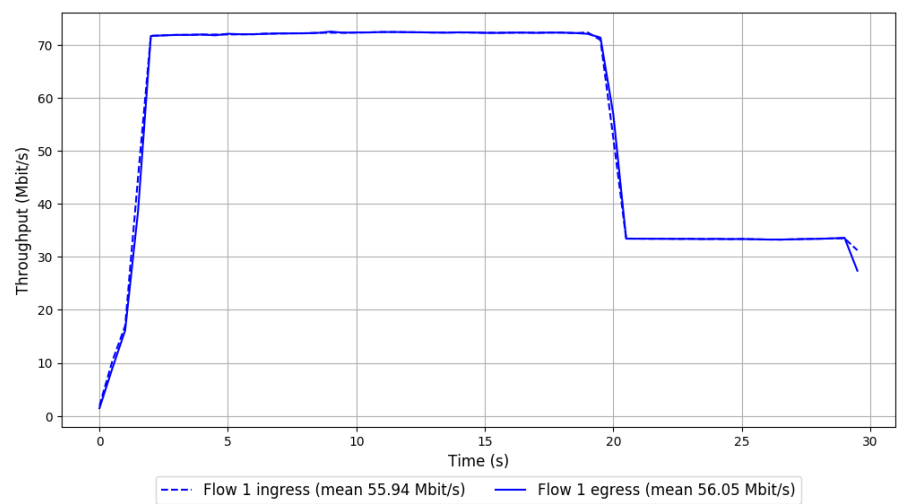
-- Flow 1:

Average throughput: 56.05 Mbit/s

95th percentile per-packet one-way delay: 63.529 ms

Loss rate: 0.24%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-13 12:44:22

End at: 2018-02-13 12:44:52

Below is generated by plot.py at 2018-02-13 16:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 63.712 ms

Loss rate: 0.17%

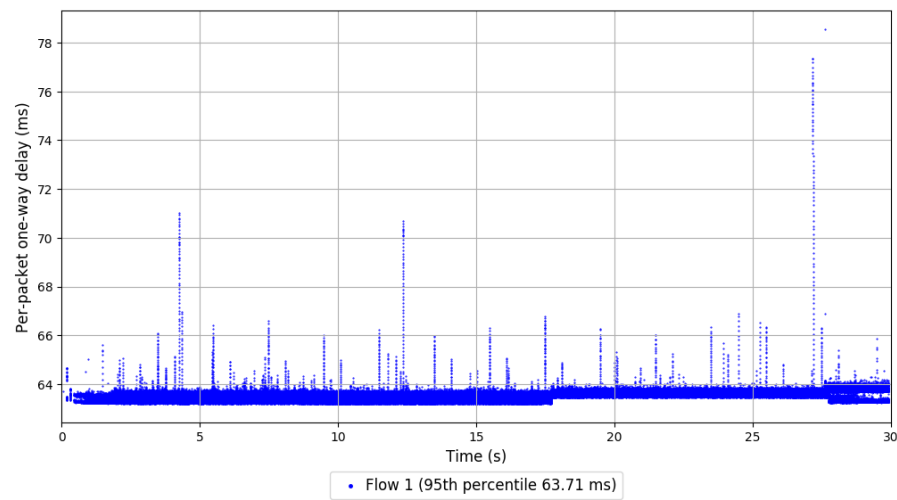
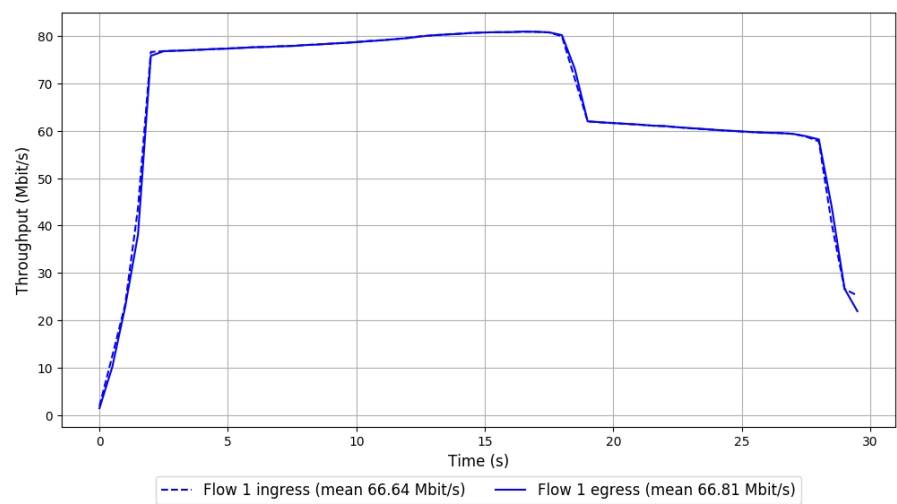
-- Flow 1:

Average throughput: 66.81 Mbit/s

95th percentile per-packet one-way delay: 63.712 ms

Loss rate: 0.17%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-13 12:59:08

End at: 2018-02-13 12:59:38

Below is generated by plot.py at 2018-02-13 16:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 63.552 ms

Loss rate: 0.55%

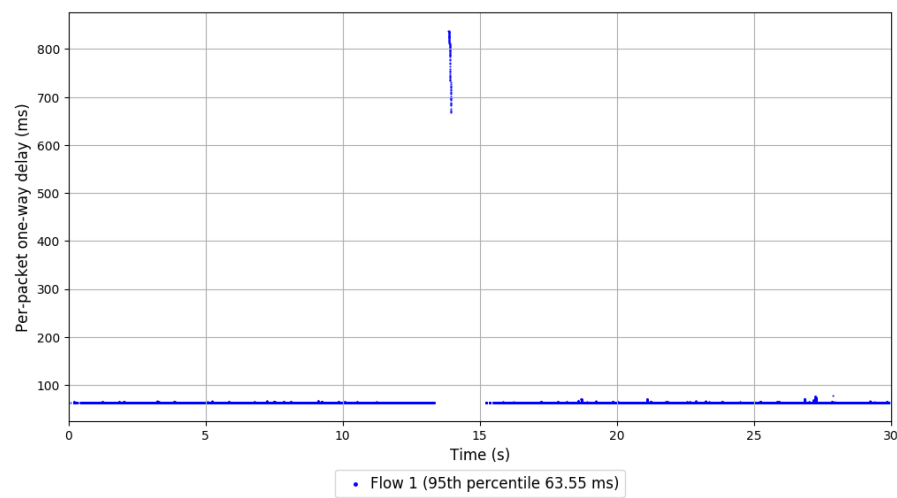
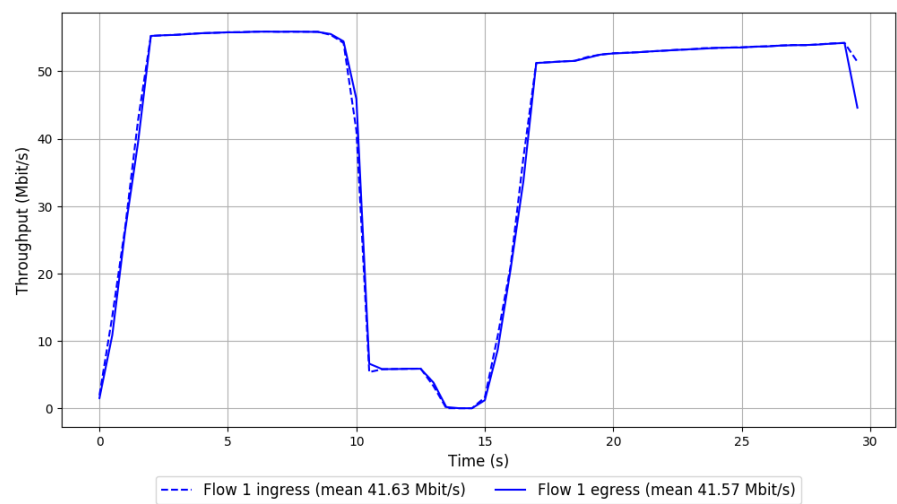
-- Flow 1:

Average throughput: 41.57 Mbit/s

95th percentile per-packet one-way delay: 63.552 ms

Loss rate: 0.55%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-13 13:13:59

End at: 2018-02-13 13:14:29

Below is generated by plot.py at 2018-02-13 16:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 63.360 ms

Loss rate: 0.07%

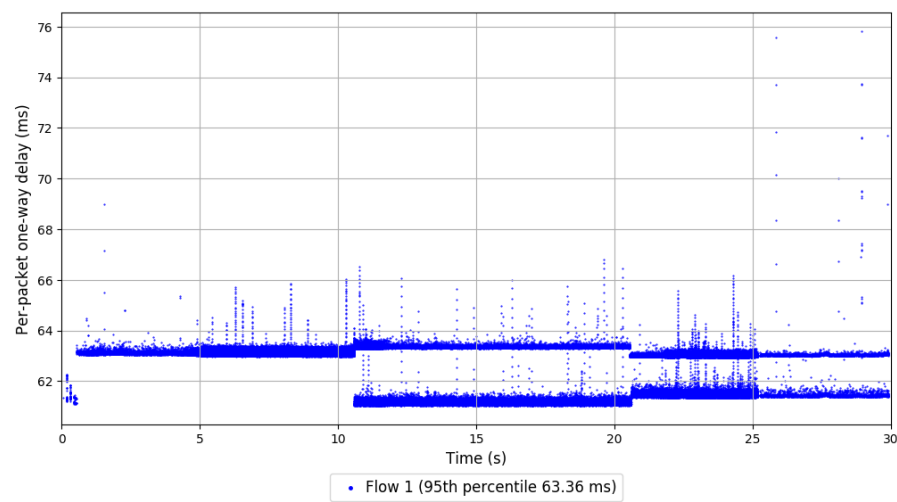
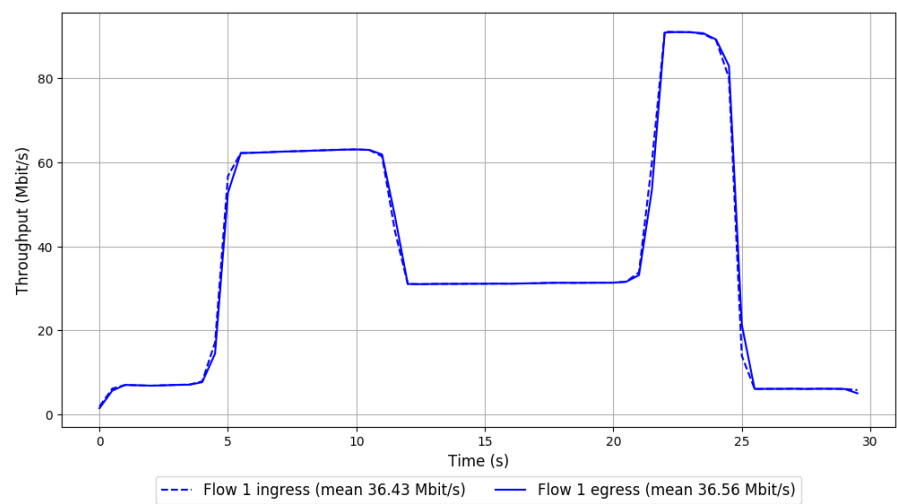
-- Flow 1:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 63.360 ms

Loss rate: 0.07%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-13 13:28:25

End at: 2018-02-13 13:28:55

Below is generated by plot.py at 2018-02-13 16:45:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.94 Mbit/s

95th percentile per-packet one-way delay: 63.187 ms

Loss rate: 0.43%

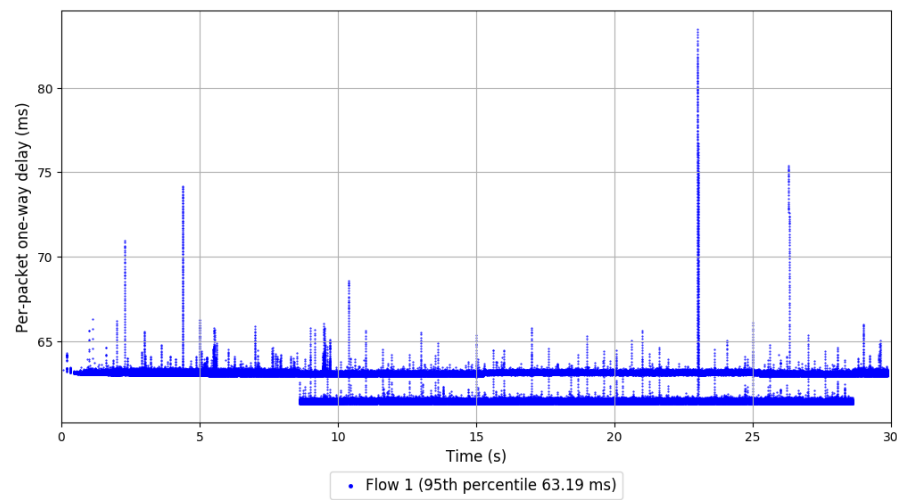
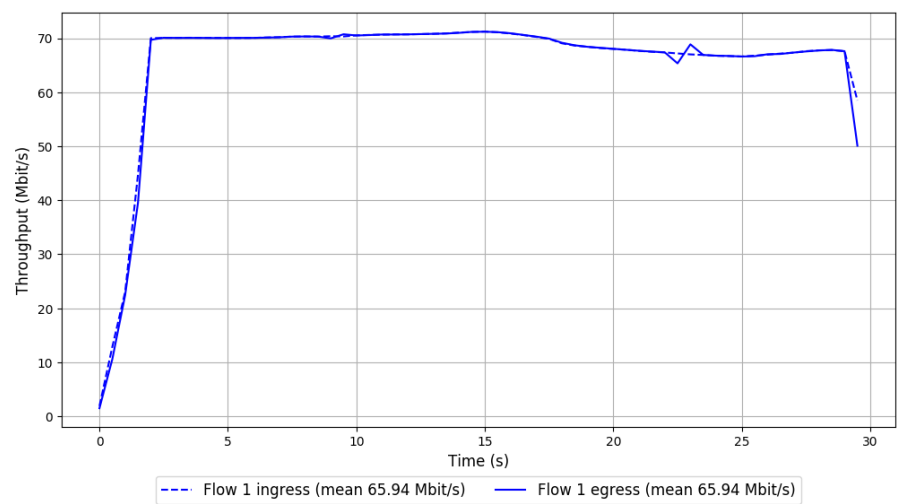
-- Flow 1:

Average throughput: 65.94 Mbit/s

95th percentile per-packet one-way delay: 63.187 ms

Loss rate: 0.43%

Run 10: Report of Copa — Data Link

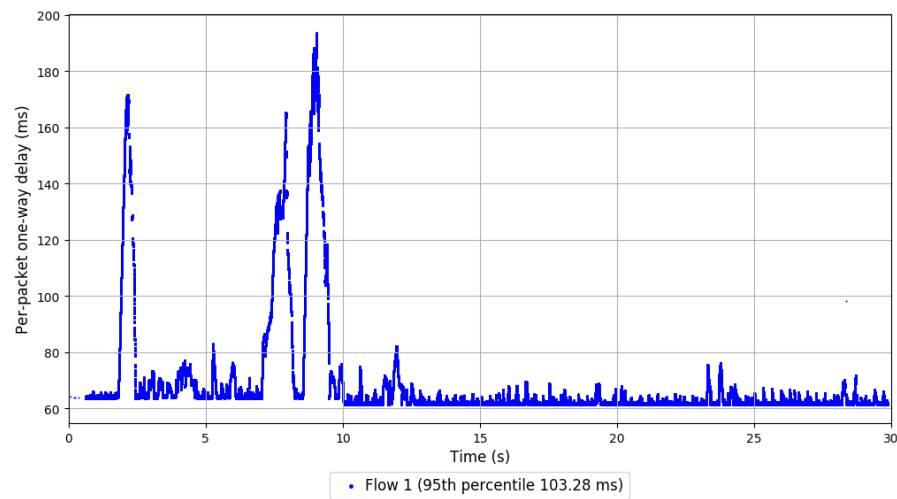
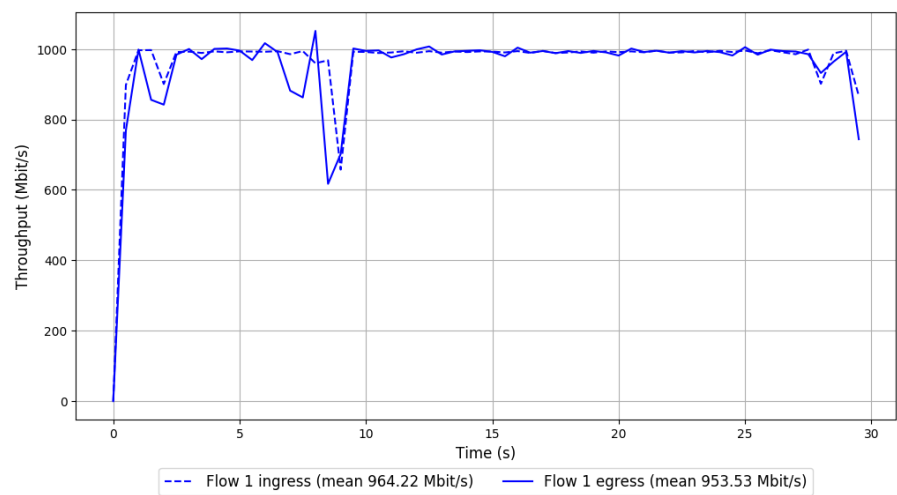


```
Run 1: Statistics of FillP

Start at: 2018-02-13 11:10:53
End at: 2018-02-13 11:11:23

# Below is generated by plot.py at 2018-02-13 16:59:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 953.53 Mbit/s
95th percentile per-packet one-way delay: 103.281 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 953.53 Mbit/s
95th percentile per-packet one-way delay: 103.281 ms
Loss rate: 1.52%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-13 11:25:42

End at: 2018-02-13 11:26:12

Below is generated by plot.py at 2018-02-13 16:59:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 940.67 Mbit/s

95th percentile per-packet one-way delay: 198.713 ms

Loss rate: 1.75%

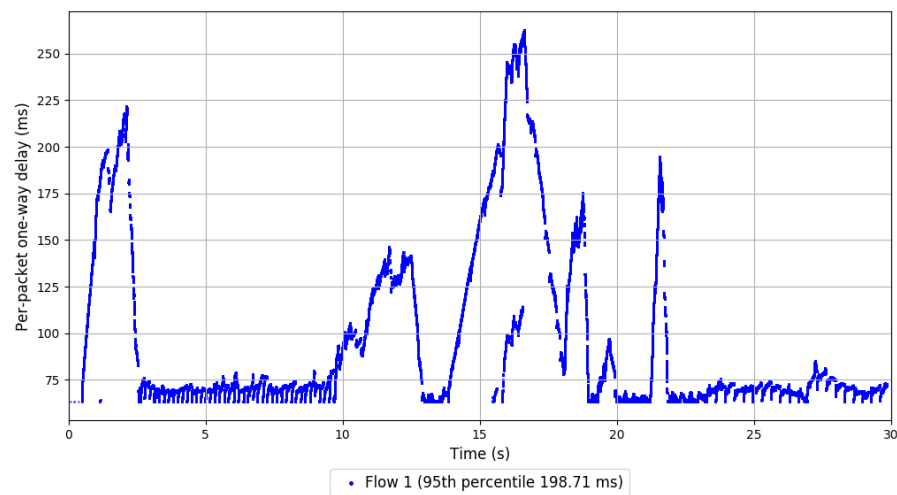
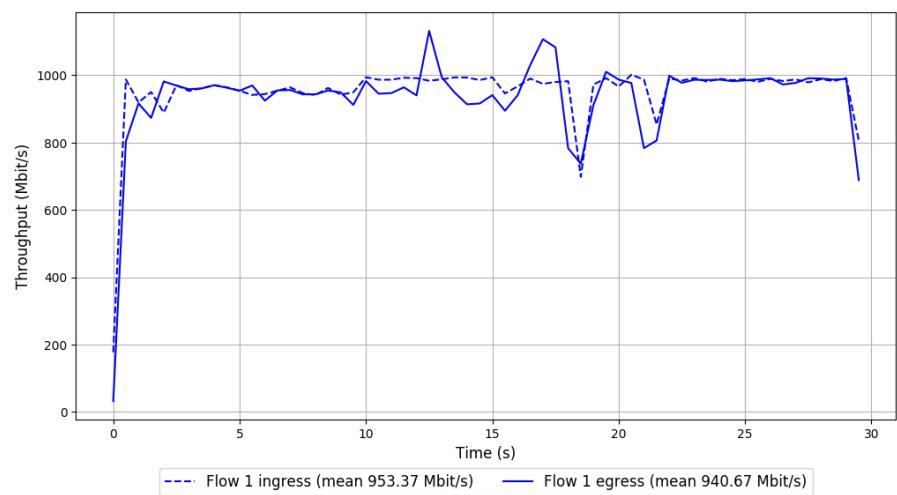
-- Flow 1:

Average throughput: 940.67 Mbit/s

95th percentile per-packet one-way delay: 198.713 ms

Loss rate: 1.75%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-13 11:40:30

End at: 2018-02-13 11:41:00

Below is generated by plot.py at 2018-02-13 16:59:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 911.11 Mbit/s

95th percentile per-packet one-way delay: 284.935 ms

Loss rate: 4.41%

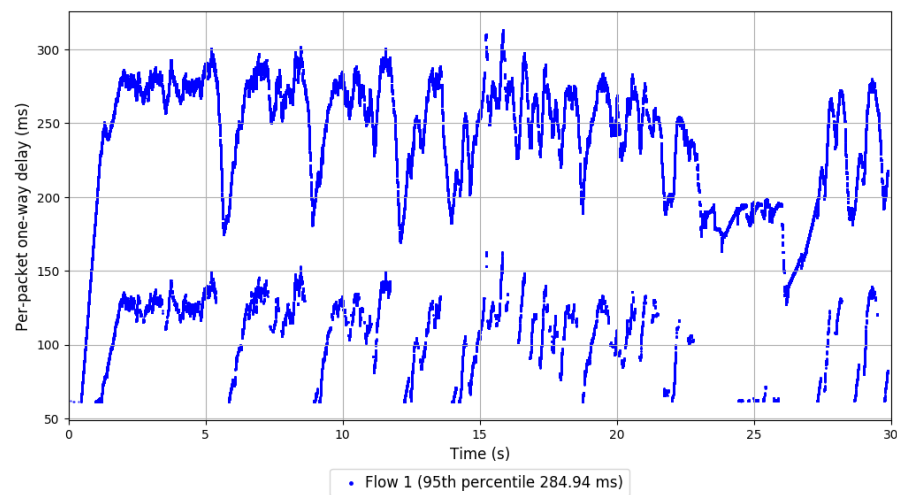
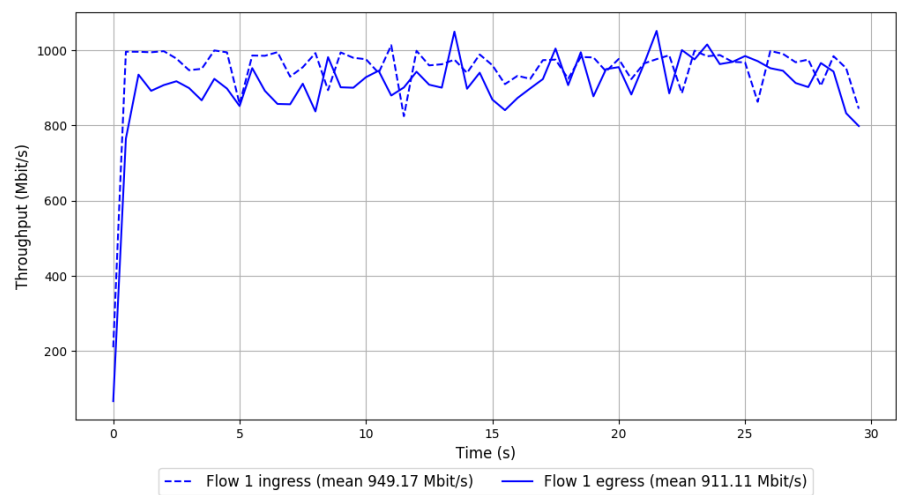
-- Flow 1:

Average throughput: 911.11 Mbit/s

95th percentile per-packet one-way delay: 284.935 ms

Loss rate: 4.41%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-13 11:55:21

End at: 2018-02-13 11:55:51

Below is generated by plot.py at 2018-02-13 16:59:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.89 Mbit/s

95th percentile per-packet one-way delay: 234.254 ms

Loss rate: 0.65%

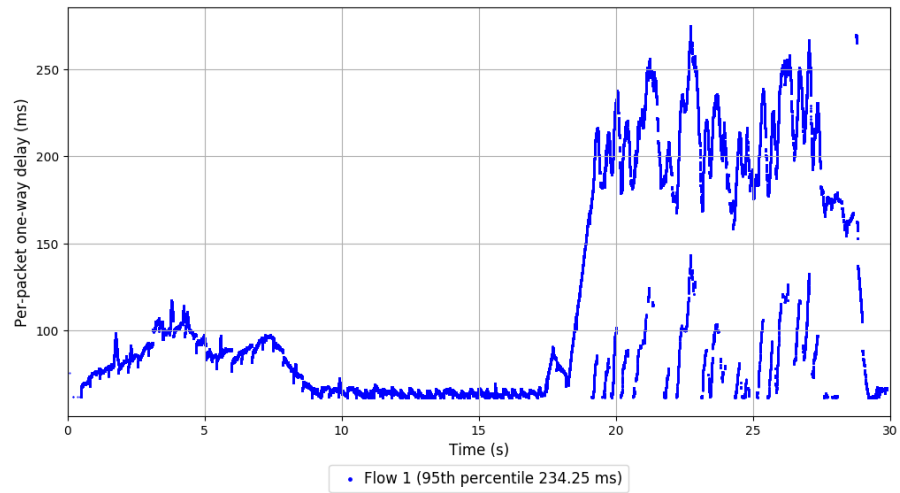
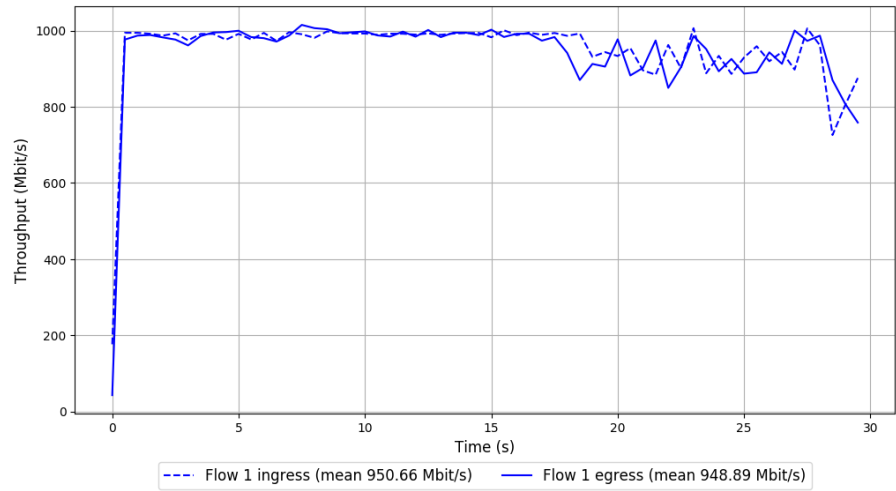
-- Flow 1:

Average throughput: 948.89 Mbit/s

95th percentile per-packet one-way delay: 234.254 ms

Loss rate: 0.65%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-13 12:10:00

End at: 2018-02-13 12:10:30

Below is generated by plot.py at 2018-02-13 16:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 952.06 Mbit/s

95th percentile per-packet one-way delay: 202.987 ms

Loss rate: 1.44%

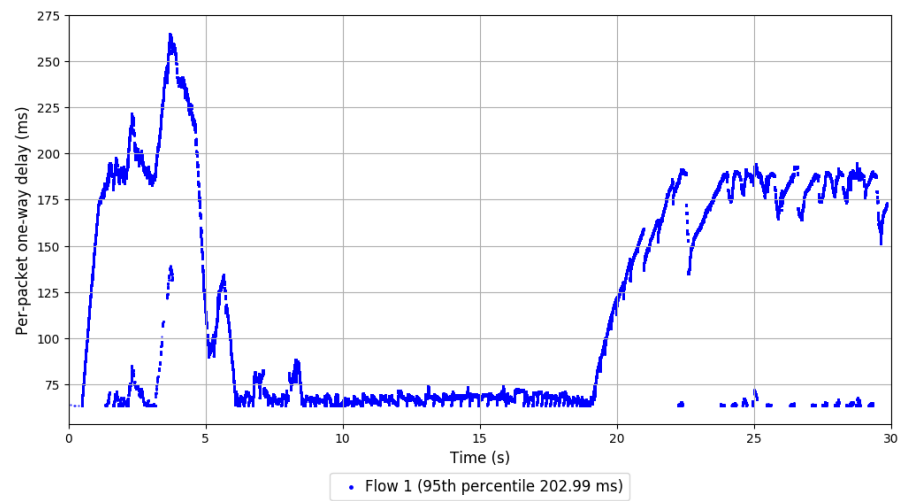
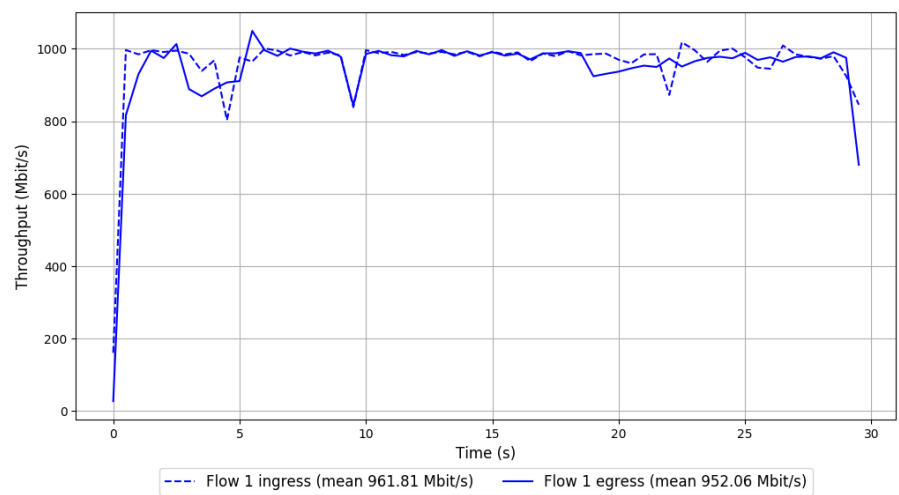
-- Flow 1:

Average throughput: 952.06 Mbit/s

95th percentile per-packet one-way delay: 202.987 ms

Loss rate: 1.44%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-13 12:24:24

End at: 2018-02-13 12:24:54

Below is generated by plot.py at 2018-02-13 17:00:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 947.02 Mbit/s

95th percentile per-packet one-way delay: 261.088 ms

Loss rate: 1.33%

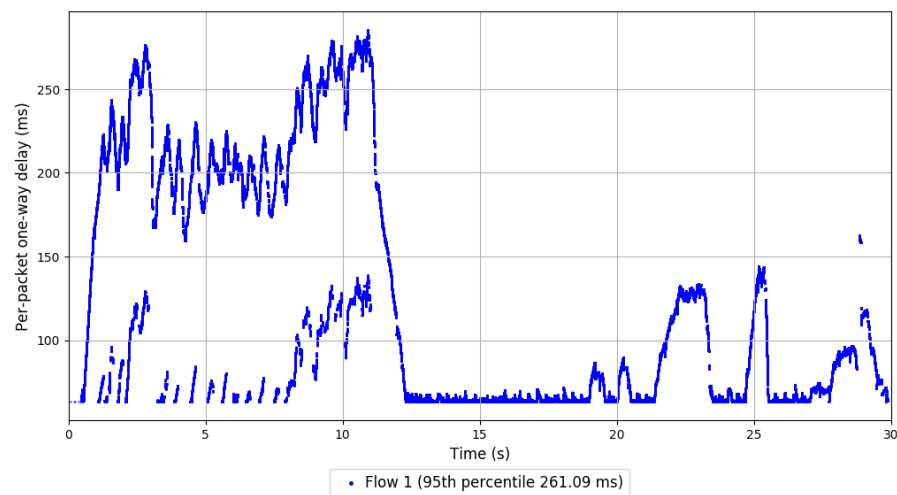
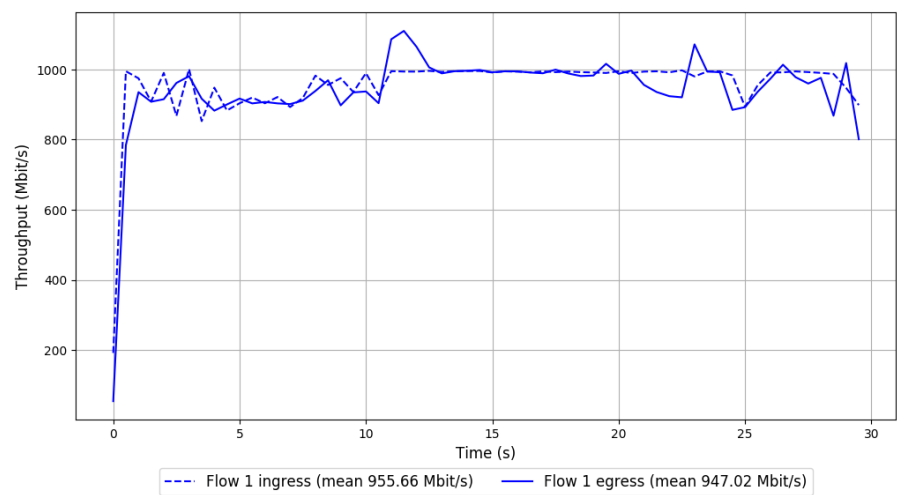
-- Flow 1:

Average throughput: 947.02 Mbit/s

95th percentile per-packet one-way delay: 261.088 ms

Loss rate: 1.33%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-13 12:39:17

End at: 2018-02-13 12:39:47

Below is generated by plot.py at 2018-02-13 17:00:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 976.95 Mbit/s

95th percentile per-packet one-way delay: 188.906 ms

Loss rate: 0.83%

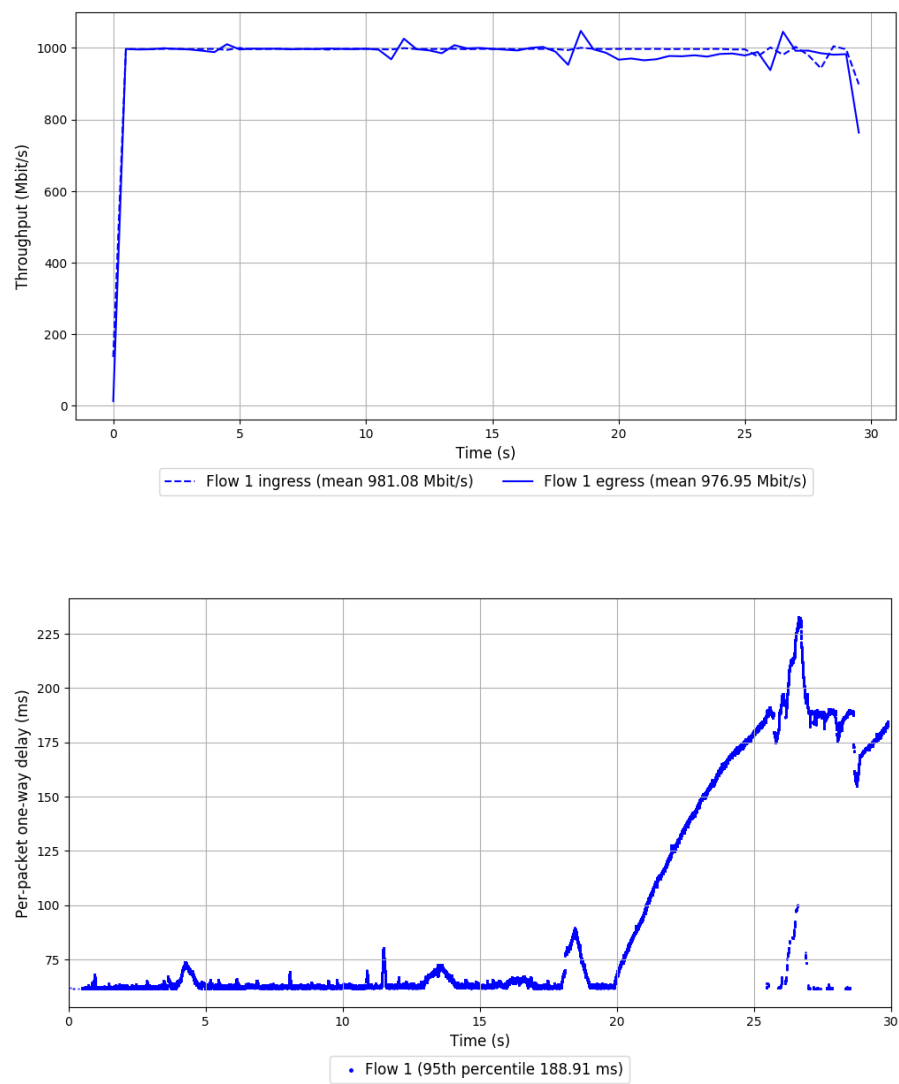
-- Flow 1:

Average throughput: 976.95 Mbit/s

95th percentile per-packet one-way delay: 188.906 ms

Loss rate: 0.83%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-13 12:54:02

End at: 2018-02-13 12:54:32

Below is generated by plot.py at 2018-02-13 17:01:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 950.55 Mbit/s

95th percentile per-packet one-way delay: 223.524 ms

Loss rate: 0.84%

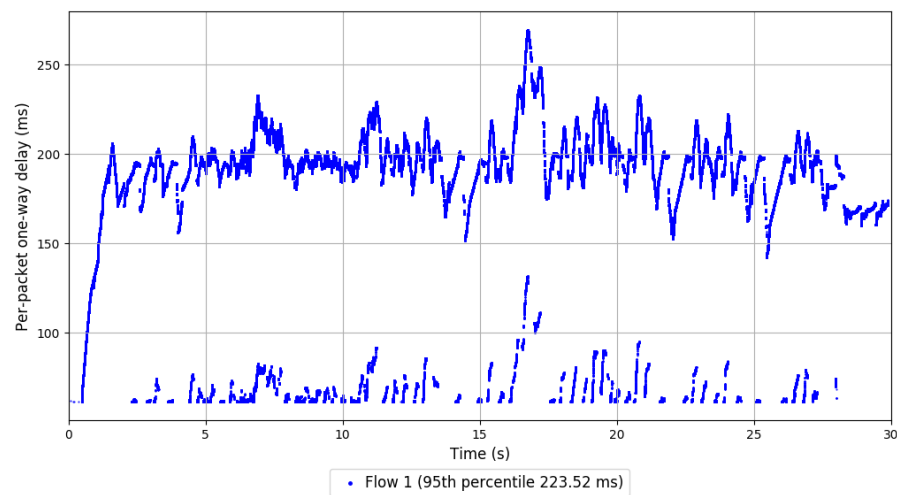
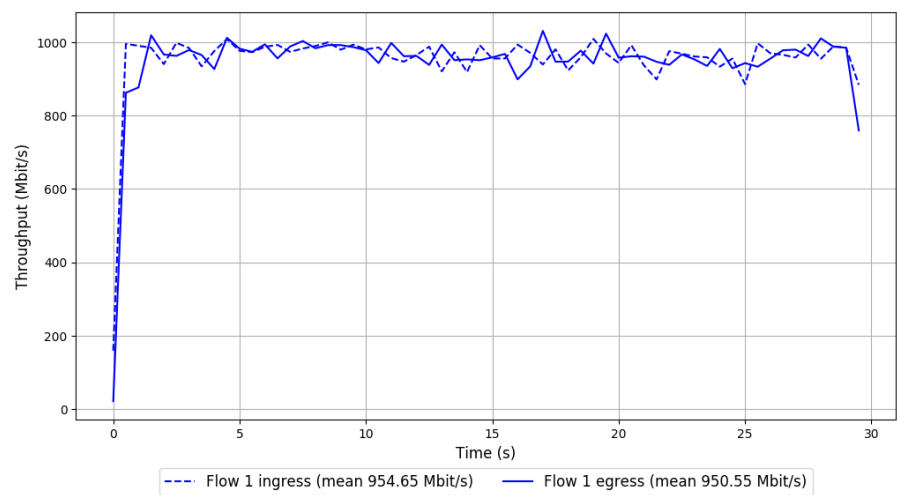
-- Flow 1:

Average throughput: 950.55 Mbit/s

95th percentile per-packet one-way delay: 223.524 ms

Loss rate: 0.84%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-13 13:08:52

End at: 2018-02-13 13:09:22

Below is generated by plot.py at 2018-02-13 17:15:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 967.56 Mbit/s

95th percentile per-packet one-way delay: 194.249 ms

Loss rate: 1.00%

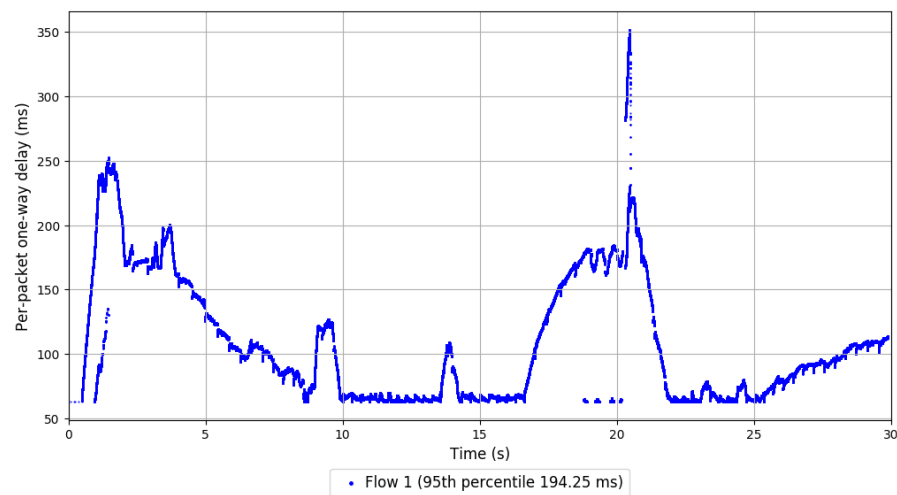
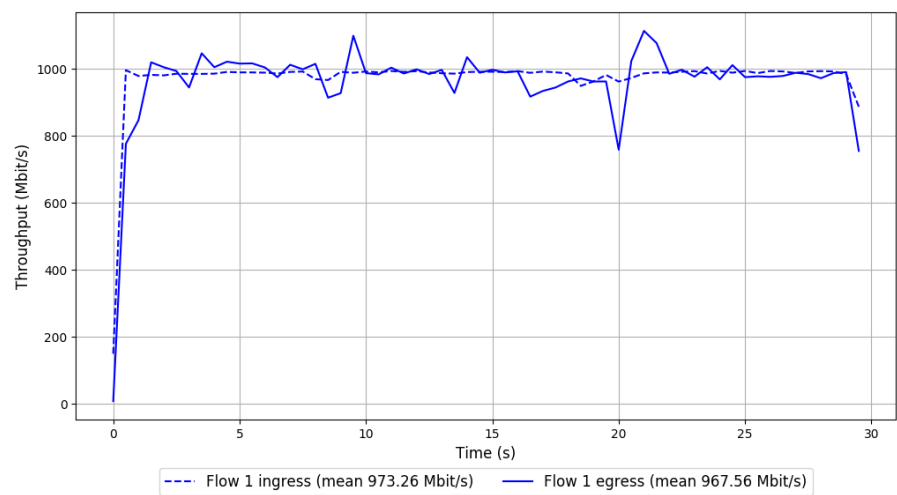
-- Flow 1:

Average throughput: 967.56 Mbit/s

95th percentile per-packet one-way delay: 194.249 ms

Loss rate: 1.00%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-13 13:23:38

End at: 2018-02-13 13:24:08

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.62 Mbit/s

95th percentile per-packet one-way delay: 265.868 ms

Loss rate: 2.66%

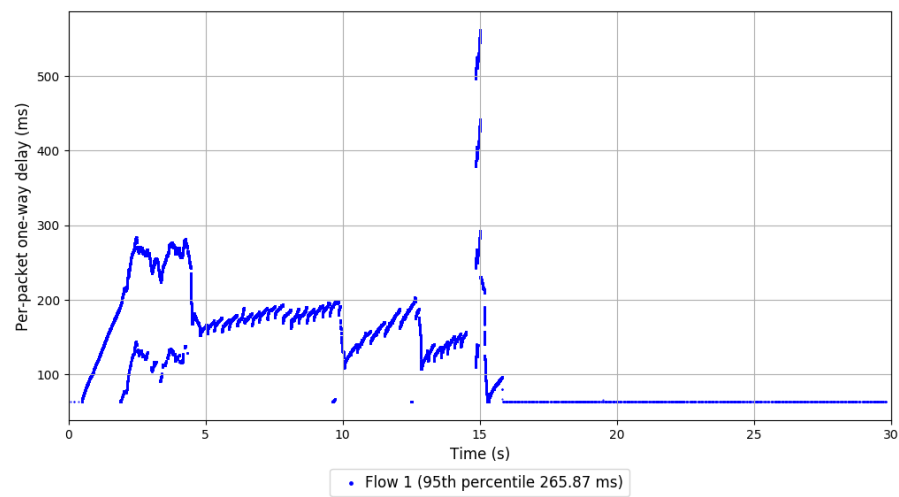
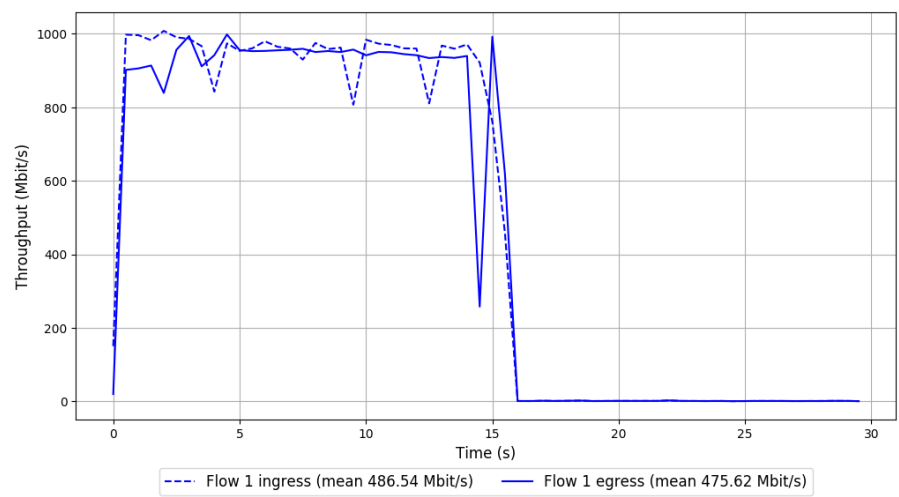
-- Flow 1:

Average throughput: 475.62 Mbit/s

95th percentile per-packet one-way delay: 265.868 ms

Loss rate: 2.66%

Run 10: Report of FillP — Data Link

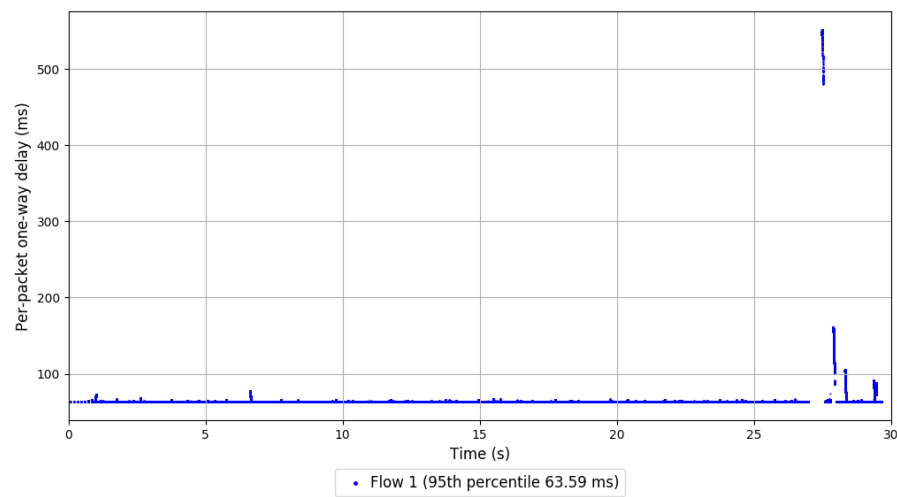
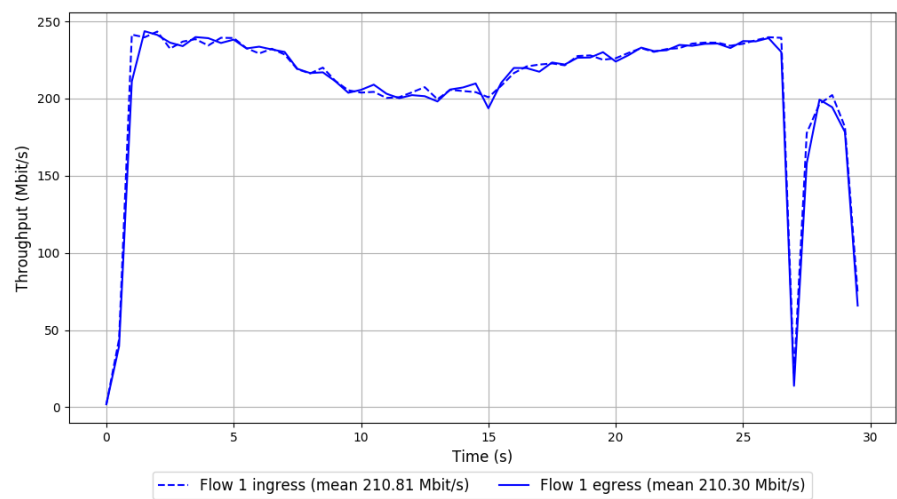


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-13 11:21:46
End at: 2018-02-13 11:22:16

# Below is generated by plot.py at 2018-02-13 17:15:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.30 Mbit/s
95th percentile per-packet one-way delay: 63.591 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 210.30 Mbit/s
95th percentile per-packet one-way delay: 63.591 ms
Loss rate: 0.67%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-13 11:36:23

End at: 2018-02-13 11:36:53

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.66 Mbit/s

95th percentile per-packet one-way delay: 63.423 ms

Loss rate: 0.39%

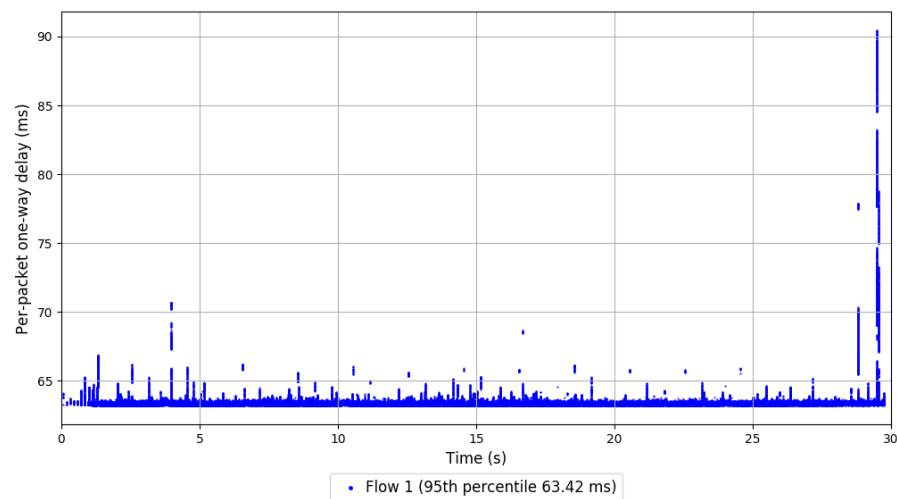
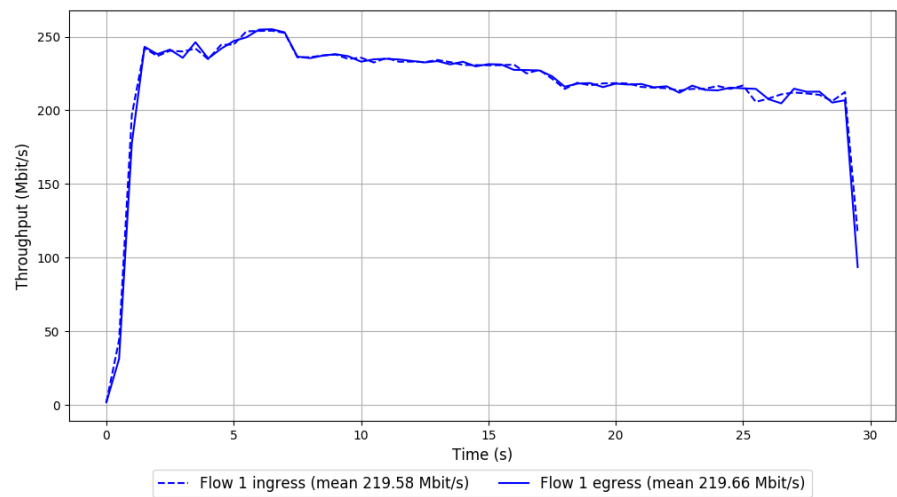
-- Flow 1:

Average throughput: 219.66 Mbit/s

95th percentile per-packet one-way delay: 63.423 ms

Loss rate: 0.39%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-13 11:51:21

End at: 2018-02-13 11:51:51

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.12 Mbit/s

95th percentile per-packet one-way delay: 63.572 ms

Loss rate: 0.44%

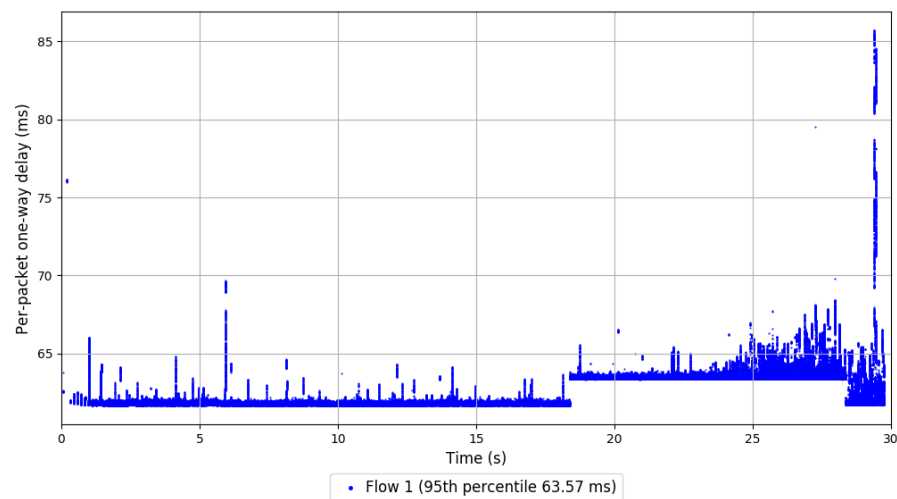
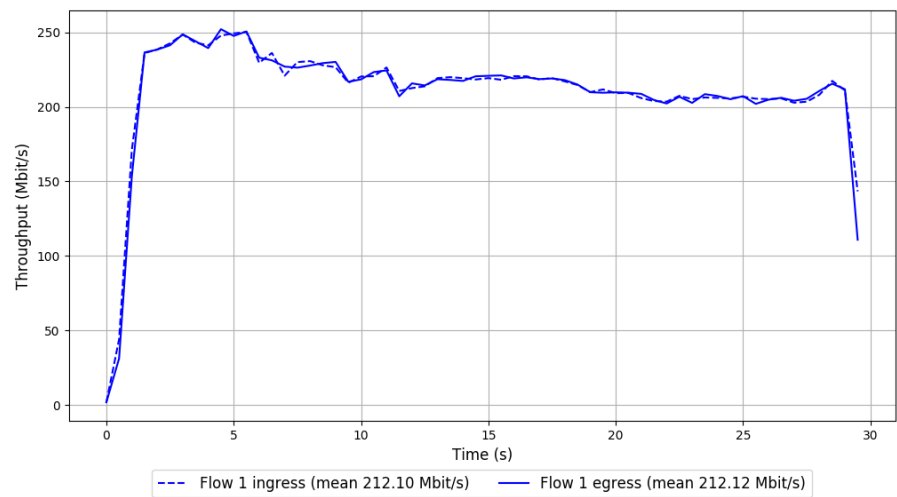
-- Flow 1:

Average throughput: 212.12 Mbit/s

95th percentile per-packet one-way delay: 63.572 ms

Loss rate: 0.44%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-13 12:06:02

End at: 2018-02-13 12:06:32

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.52 Mbit/s

95th percentile per-packet one-way delay: 63.614 ms

Loss rate: 0.74%

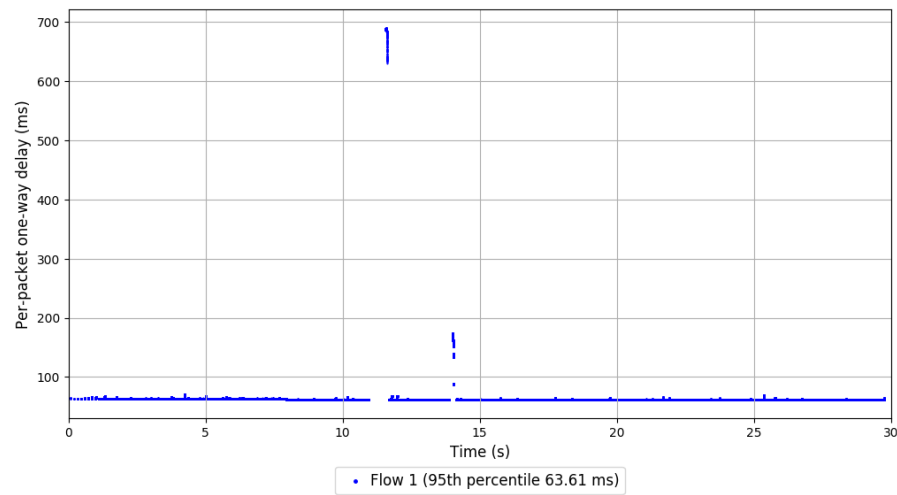
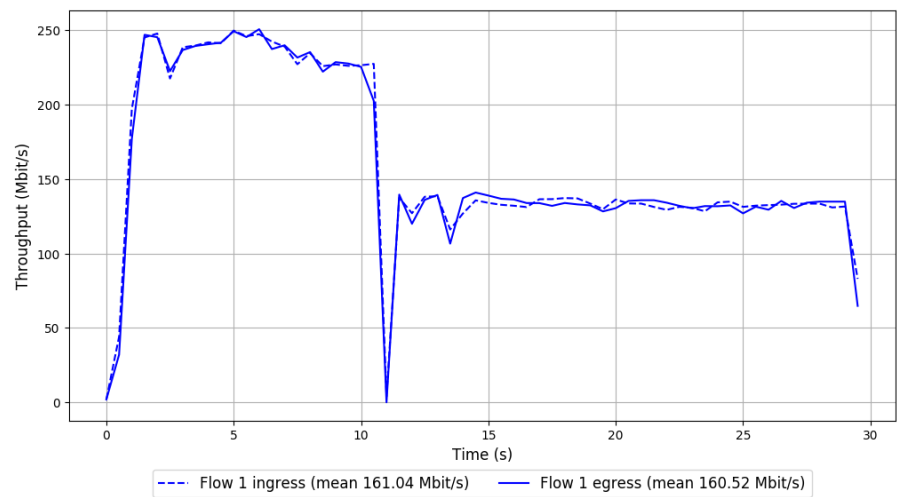
-- Flow 1:

Average throughput: 160.52 Mbit/s

95th percentile per-packet one-way delay: 63.614 ms

Loss rate: 0.74%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-13 12:20:32

End at: 2018-02-13 12:21:02

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.76 Mbit/s

95th percentile per-packet one-way delay: 61.912 ms

Loss rate: 0.40%

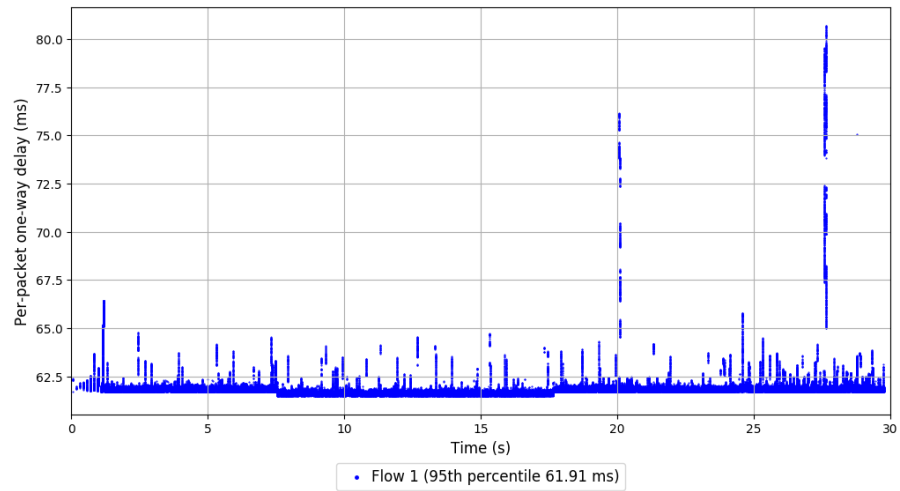
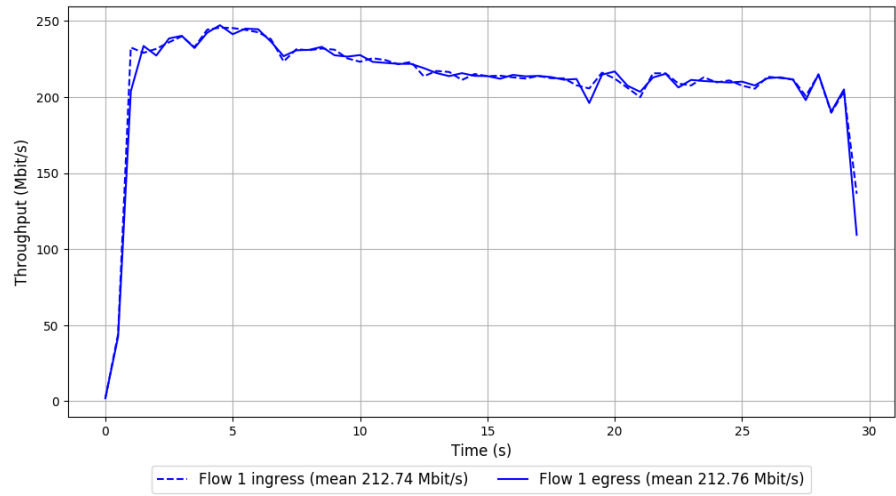
-- Flow 1:

Average throughput: 212.76 Mbit/s

95th percentile per-packet one-way delay: 61.912 ms

Loss rate: 0.40%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-13 12:35:22

End at: 2018-02-13 12:35:52

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.46 Mbit/s

95th percentile per-packet one-way delay: 63.541 ms

Loss rate: 0.45%

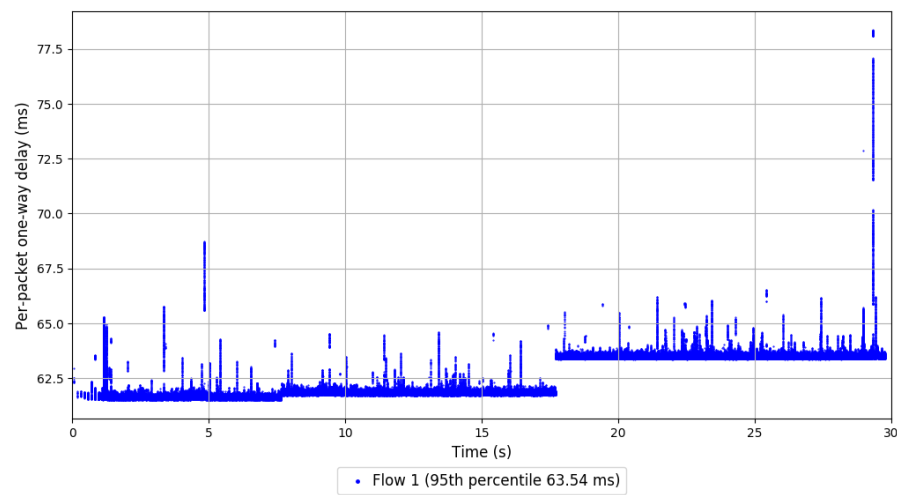
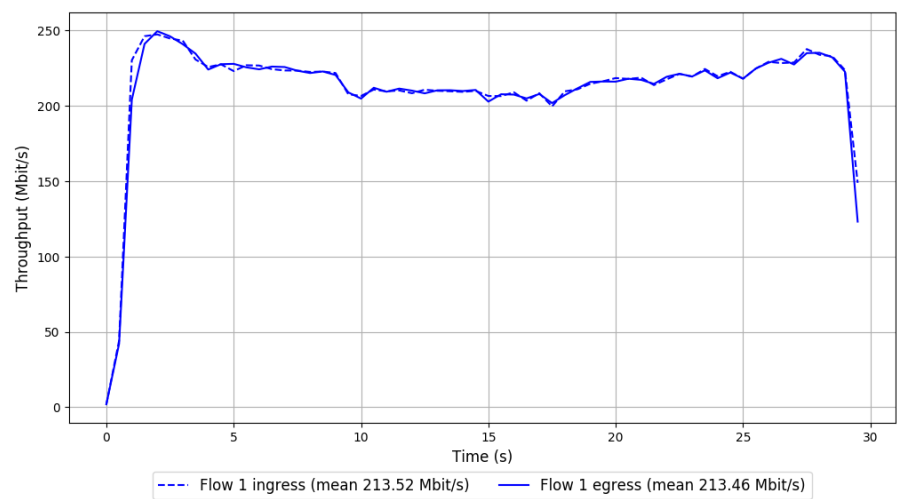
-- Flow 1:

Average throughput: 213.46 Mbit/s

95th percentile per-packet one-way delay: 63.541 ms

Loss rate: 0.45%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-13 12:50:07

End at: 2018-02-13 12:50:37

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.74 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 0.44%

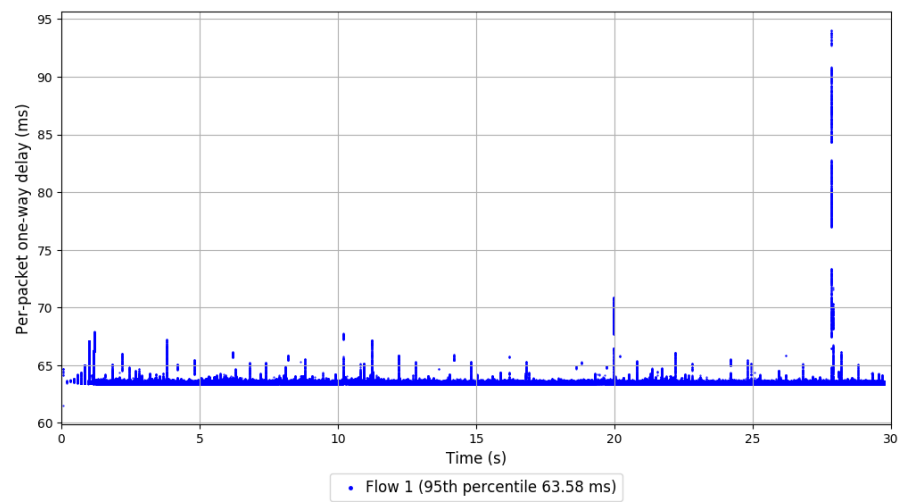
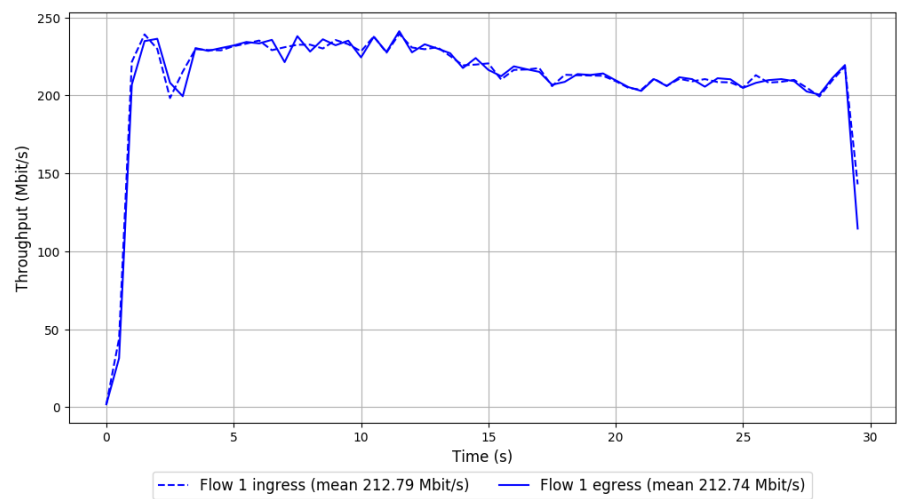
-- Flow 1:

Average throughput: 212.74 Mbit/s

95th percentile per-packet one-way delay: 63.576 ms

Loss rate: 0.44%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-13 13:04:52

End at: 2018-02-13 13:05:22

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.17 Mbit/s

95th percentile per-packet one-way delay: 63.240 ms

Loss rate: 0.44%

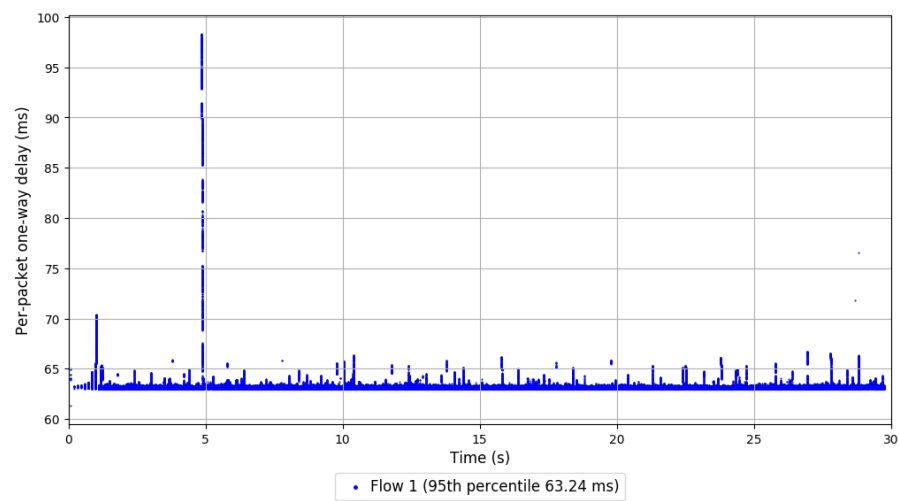
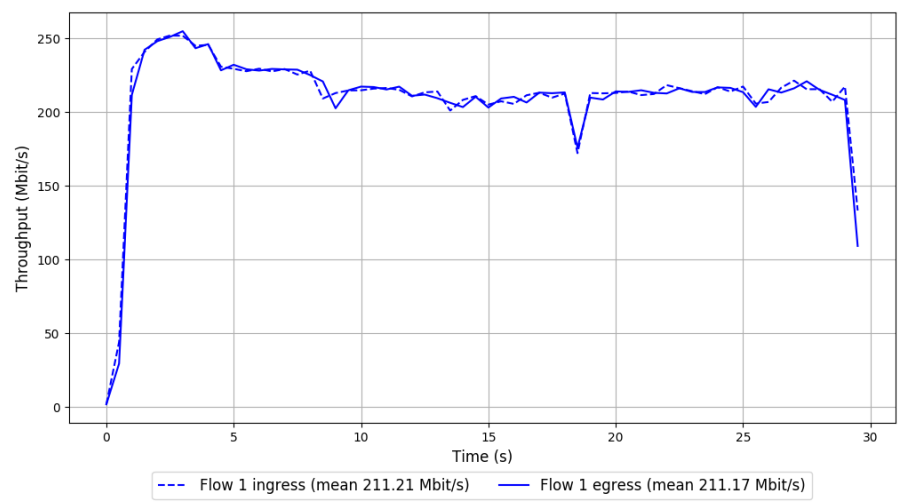
-- Flow 1:

Average throughput: 211.17 Mbit/s

95th percentile per-packet one-way delay: 63.240 ms

Loss rate: 0.44%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-13 13:19:41

End at: 2018-02-13 13:20:11

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.50 Mbit/s

95th percentile per-packet one-way delay: 63.359 ms

Loss rate: 0.43%

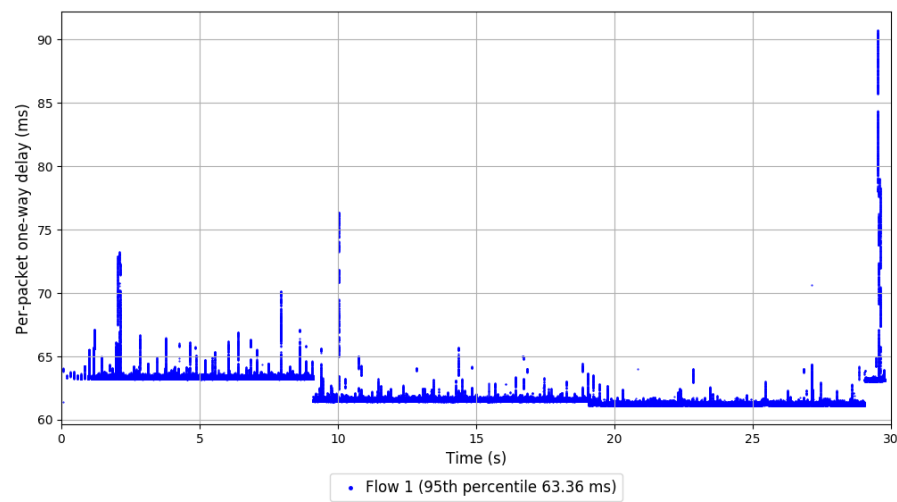
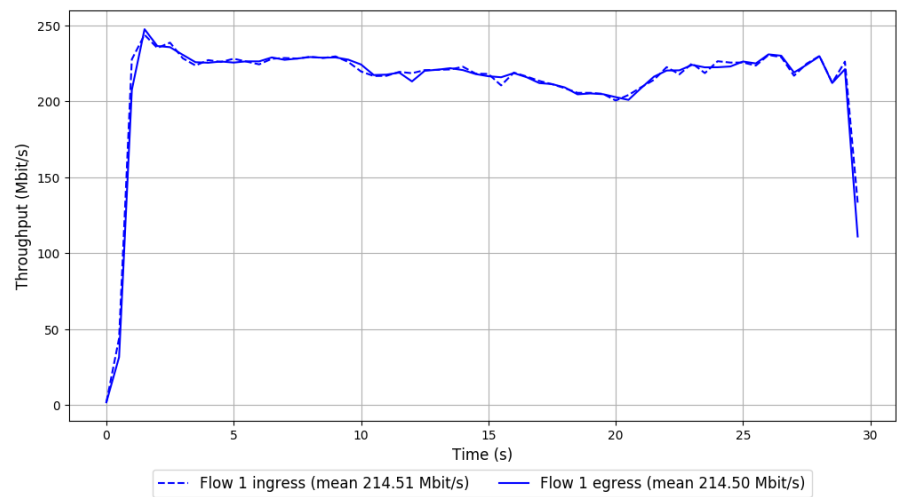
-- Flow 1:

Average throughput: 214.50 Mbit/s

95th percentile per-packet one-way delay: 63.359 ms

Loss rate: 0.43%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-13 13:34:05

End at: 2018-02-13 13:34:35

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.01 Mbit/s

95th percentile per-packet one-way delay: 63.206 ms

Loss rate: 0.80%

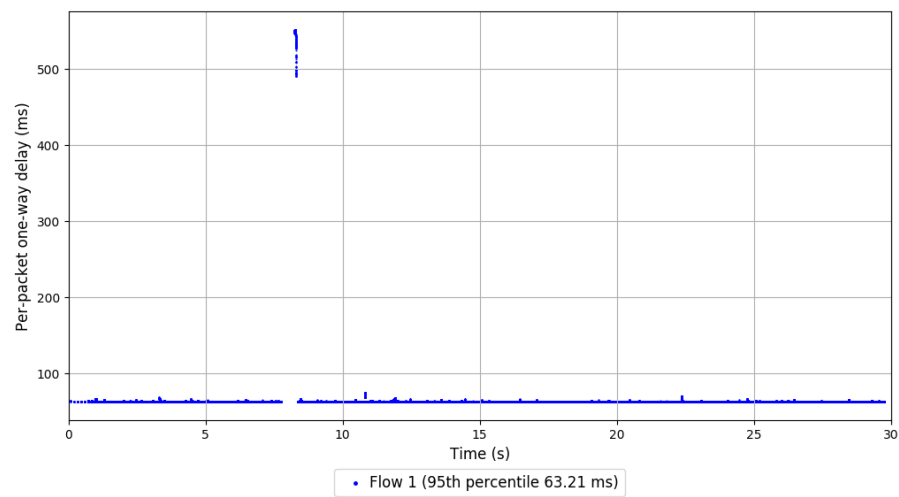
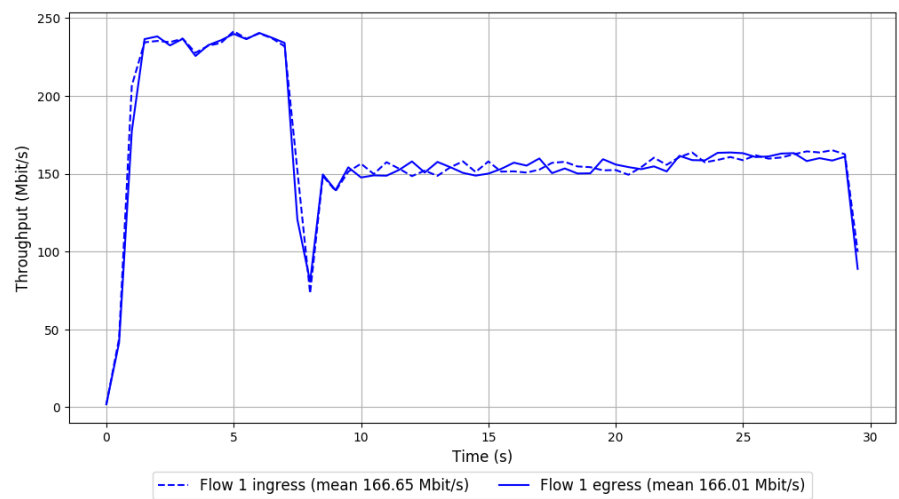
-- Flow 1:

Average throughput: 166.01 Mbit/s

95th percentile per-packet one-way delay: 63.206 ms

Loss rate: 0.80%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-13 11:20:03

End at: 2018-02-13 11:20:33

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 422.47 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.50%

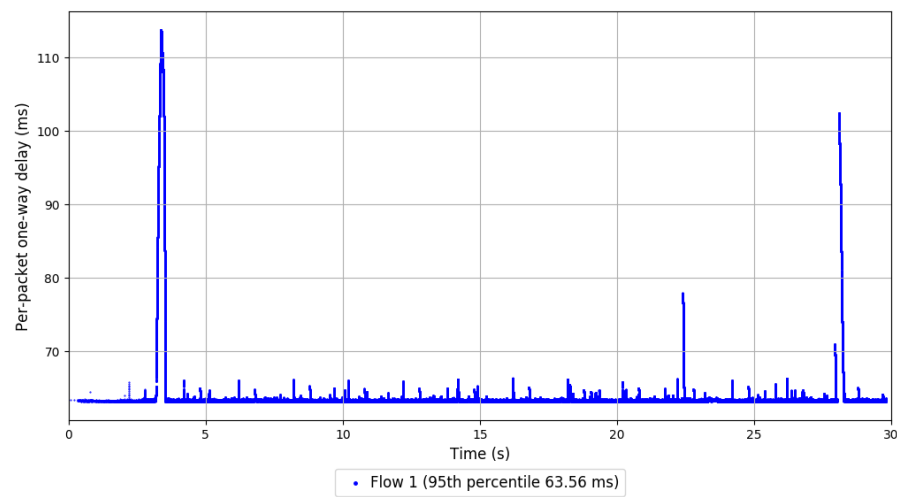
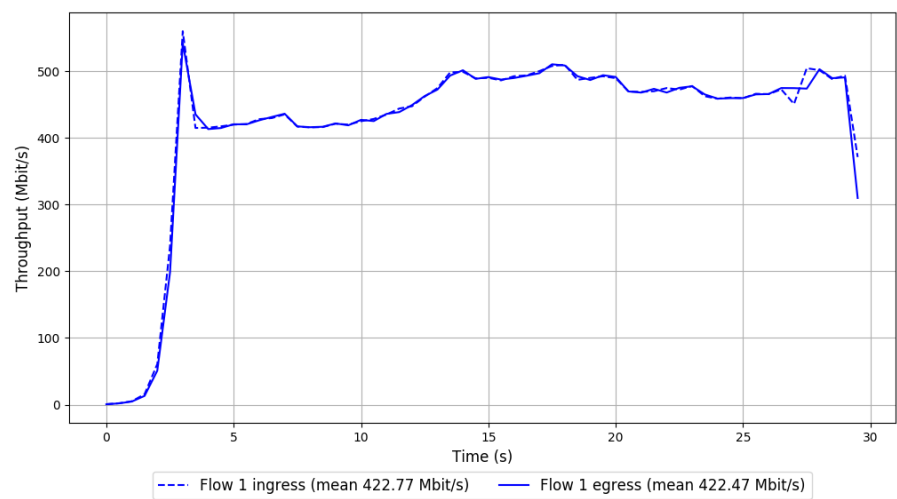
-- Flow 1:

Average throughput: 422.47 Mbit/s

95th percentile per-packet one-way delay: 63.560 ms

Loss rate: 0.50%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-13 11:34:44

End at: 2018-02-13 11:35:14

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.66 Mbit/s

95th percentile per-packet one-way delay: 61.693 ms

Loss rate: 0.31%

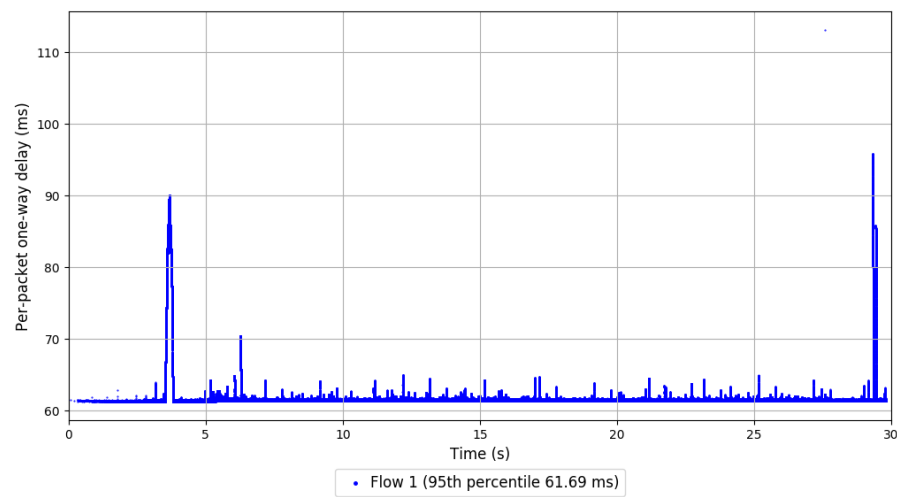
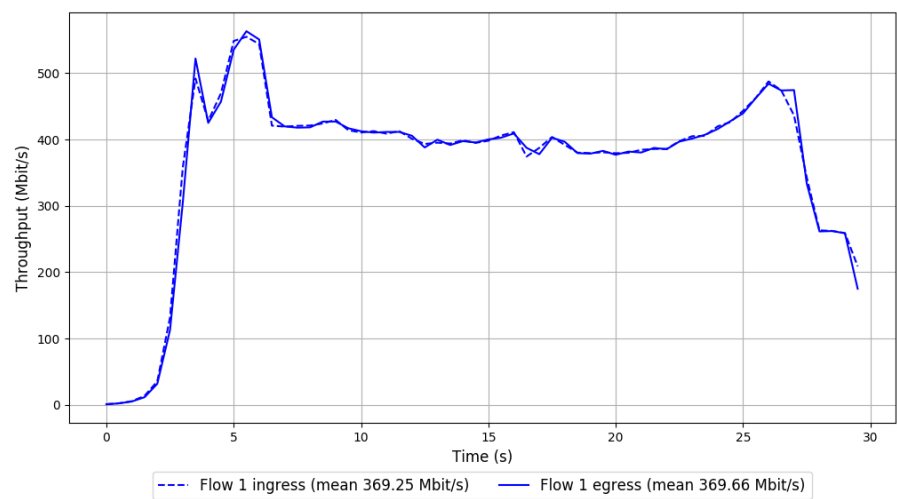
-- Flow 1:

Average throughput: 369.66 Mbit/s

95th percentile per-packet one-way delay: 61.693 ms

Loss rate: 0.31%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-13 11:49:39

End at: 2018-02-13 11:50:10

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 413.88 Mbit/s

95th percentile per-packet one-way delay: 64.279 ms

Loss rate: 0.41%

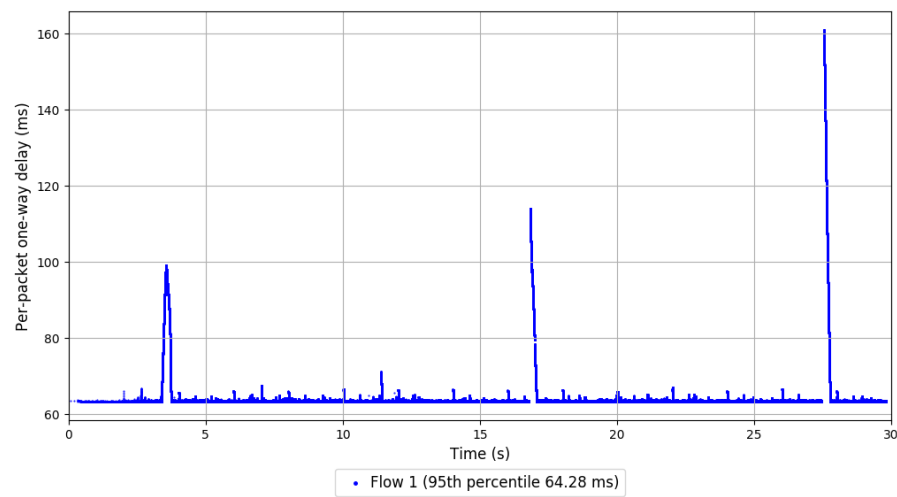
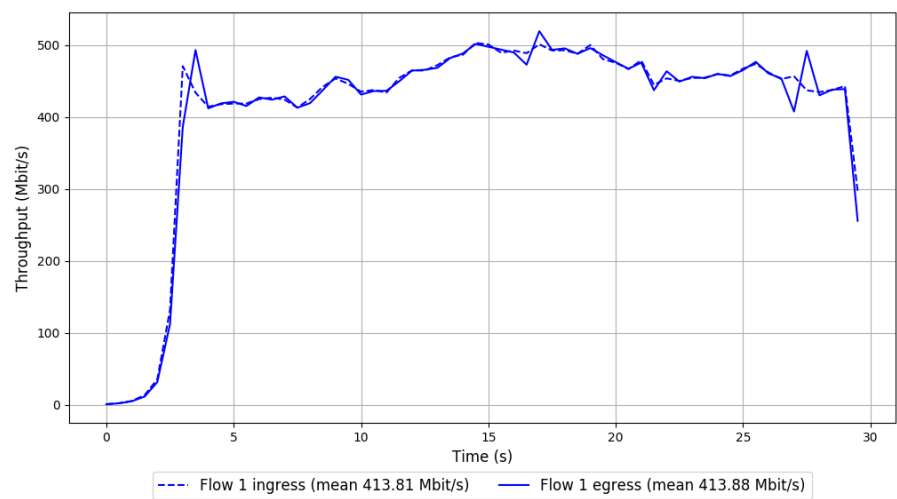
-- Flow 1:

Average throughput: 413.88 Mbit/s

95th percentile per-packet one-way delay: 64.279 ms

Loss rate: 0.41%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-13 12:04:29

End at: 2018-02-13 12:04:59

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.66 Mbit/s

95th percentile per-packet one-way delay: 112.757 ms

Loss rate: 0.74%

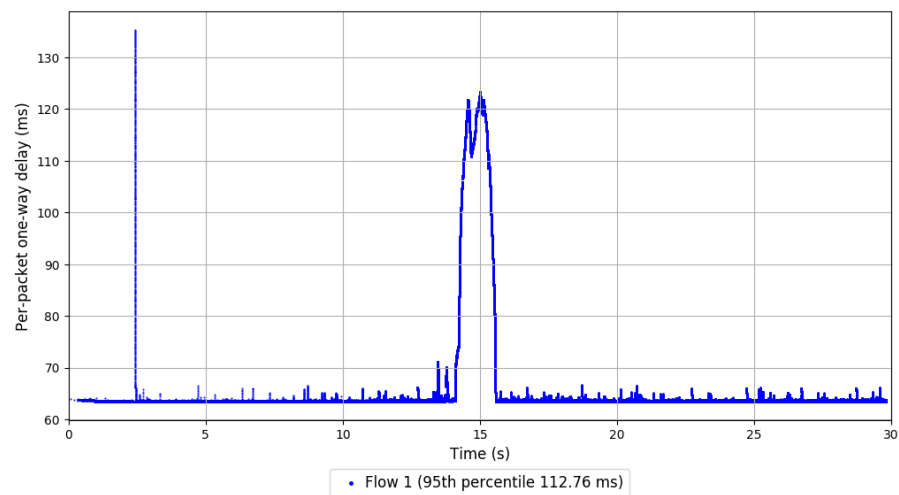
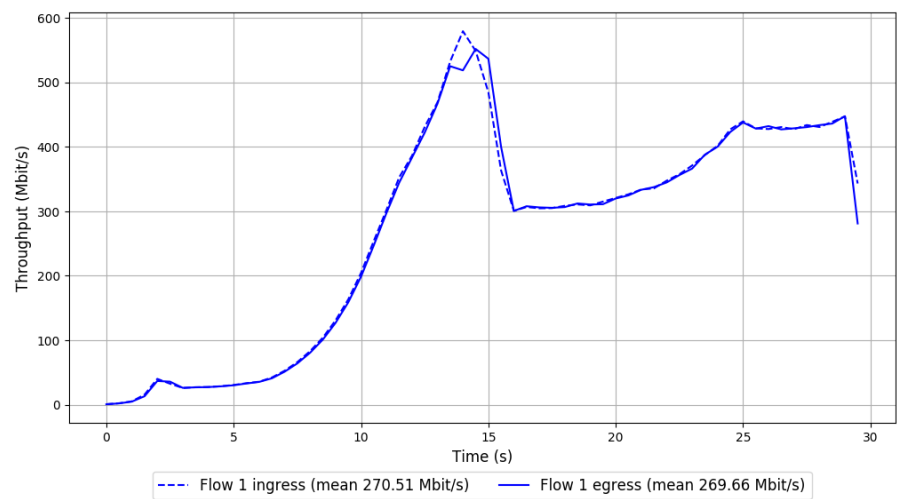
-- Flow 1:

Average throughput: 269.66 Mbit/s

95th percentile per-packet one-way delay: 112.757 ms

Loss rate: 0.74%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-13 12:19:00

End at: 2018-02-13 12:19:30

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.13 Mbit/s

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

Loss rate: 1.48%

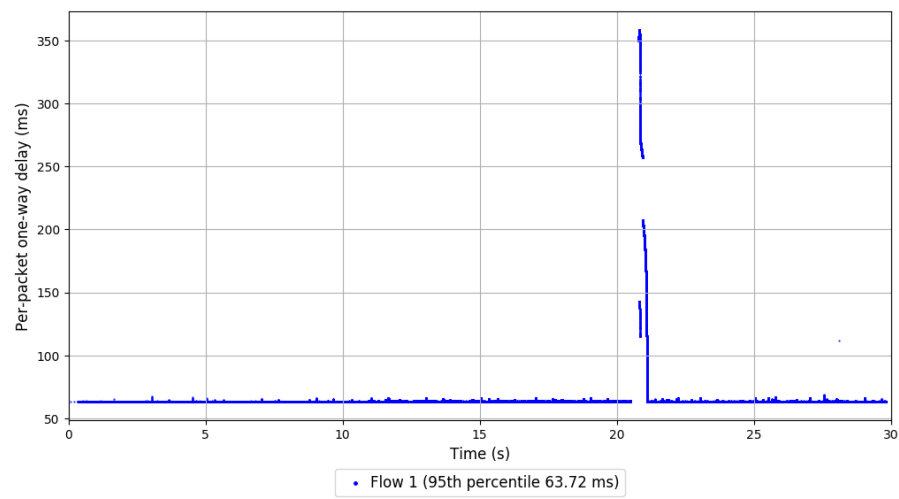
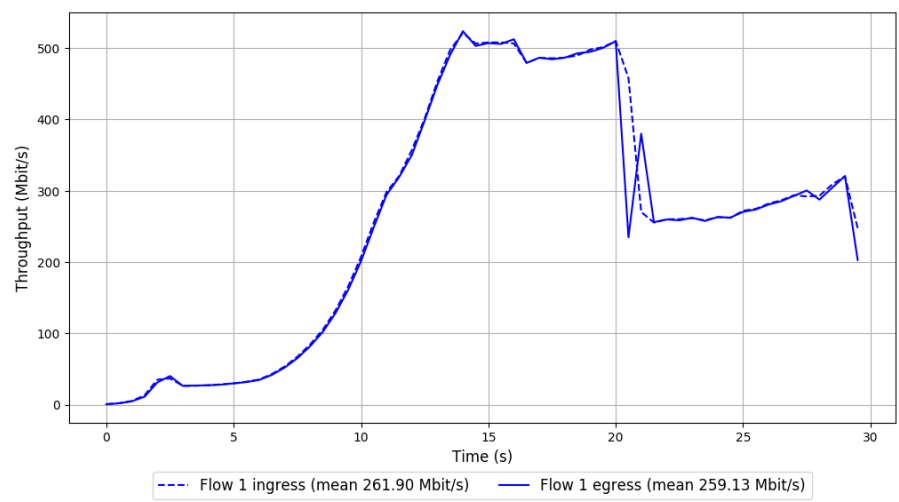
-- Flow 1:

Average throughput: 259.13 Mbit/s

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

Loss rate: 1.48%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-13 12:33:36

End at: 2018-02-13 12:34:06

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.94 Mbit/s

95th percentile per-packet one-way delay: 65.382 ms

Loss rate: 0.39%

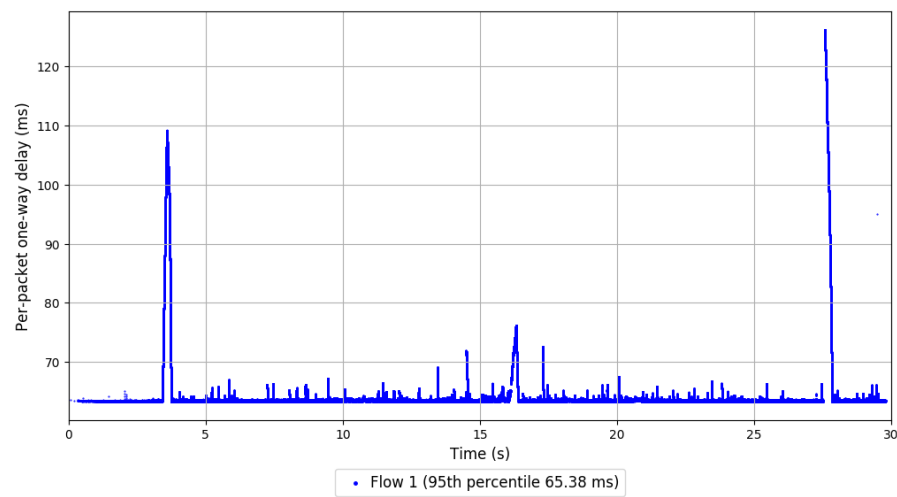
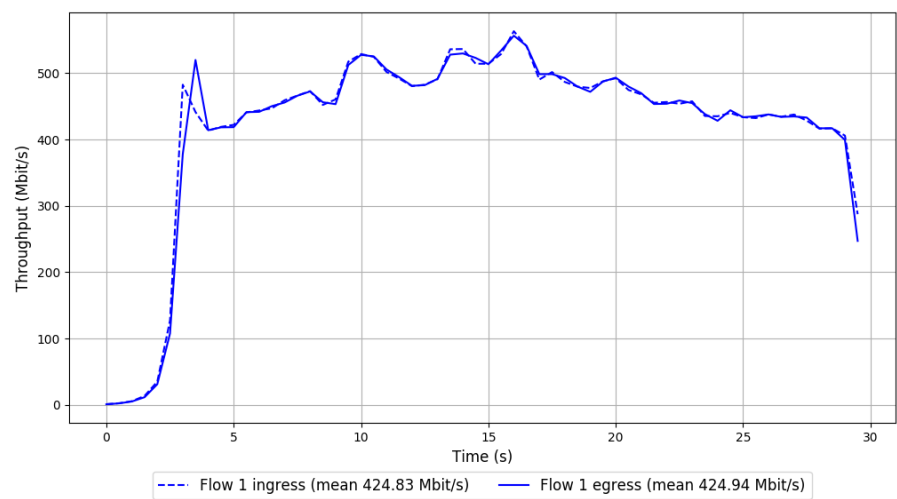
-- Flow 1:

Average throughput: 424.94 Mbit/s

95th percentile per-packet one-way delay: 65.382 ms

Loss rate: 0.39%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-13 12:48:23

End at: 2018-02-13 12:48:53

Below is generated by plot.py at 2018-02-13 17:15:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.24 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.46%

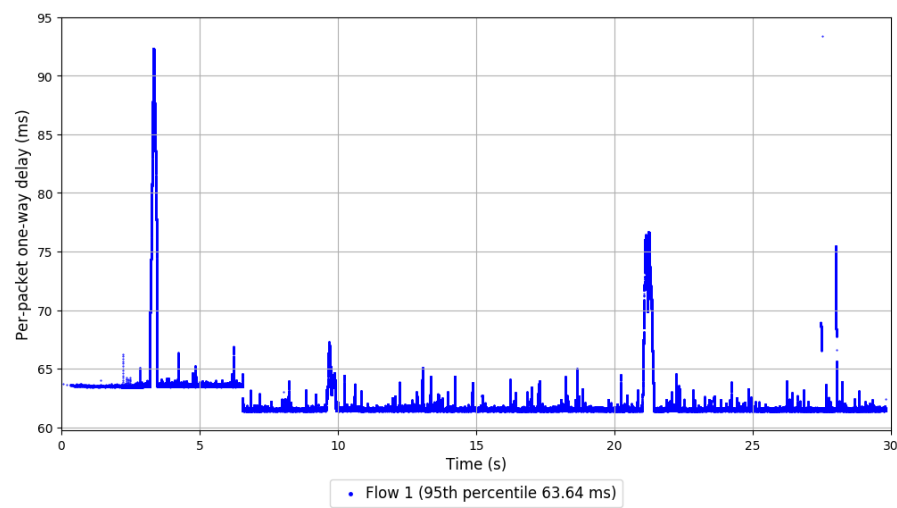
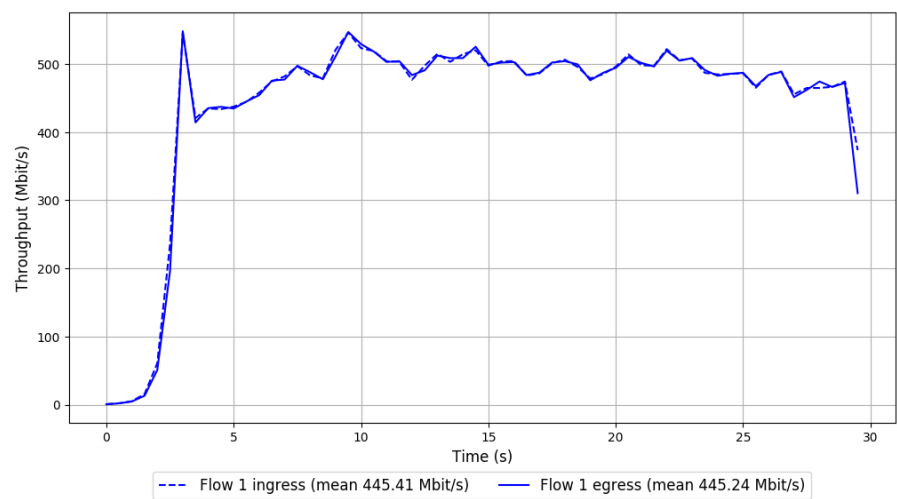
-- Flow 1:

Average throughput: 445.24 Mbit/s

95th percentile per-packet one-way delay: 63.637 ms

Loss rate: 0.46%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-13 13:03:11

End at: 2018-02-13 13:03:41

Below is generated by plot.py at 2018-02-13 17:15:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.49 Mbit/s

95th percentile per-packet one-way delay: 63.318 ms

Loss rate: 0.52%

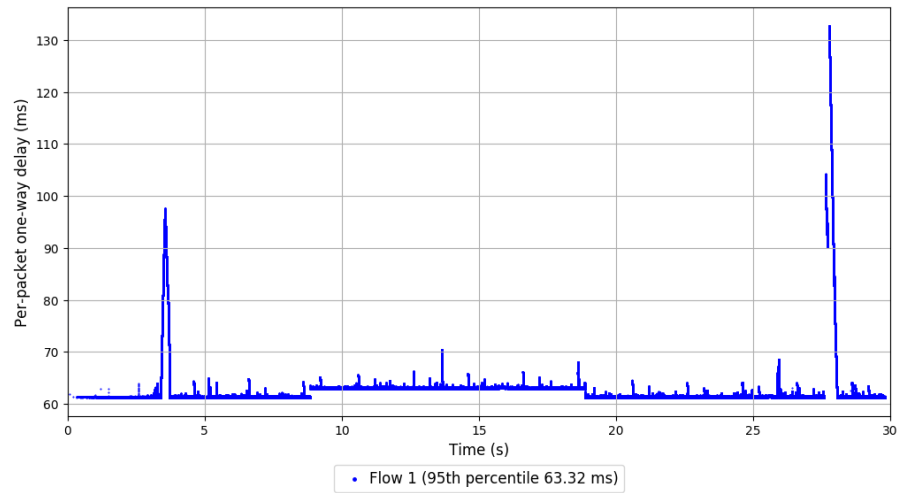
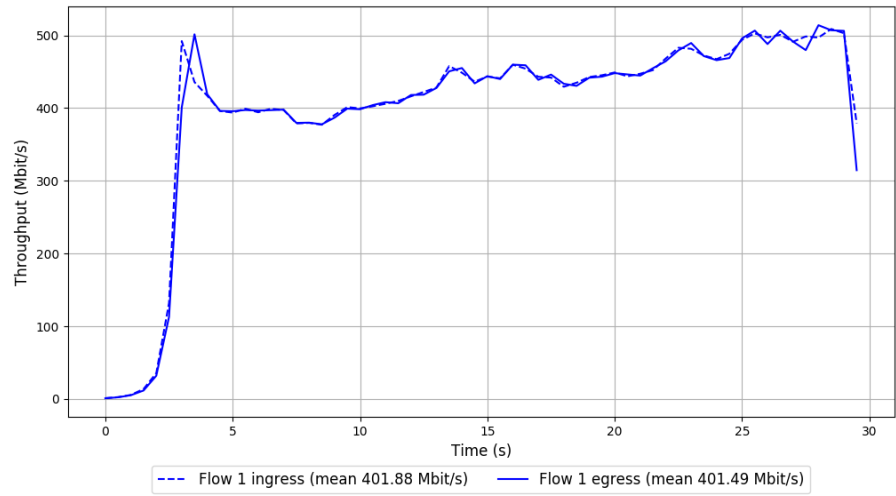
-- Flow 1:

Average throughput: 401.49 Mbit/s

95th percentile per-packet one-way delay: 63.318 ms

Loss rate: 0.52%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-13 13:18:01

End at: 2018-02-13 13:18:31

Below is generated by plot.py at 2018-02-13 17:15:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.44 Mbit/s

95th percentile per-packet one-way delay: 63.075 ms

Loss rate: 0.49%

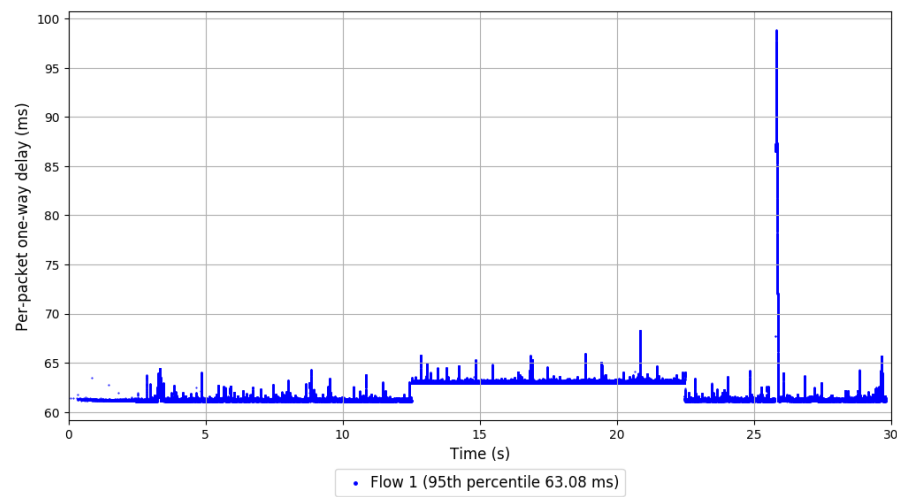
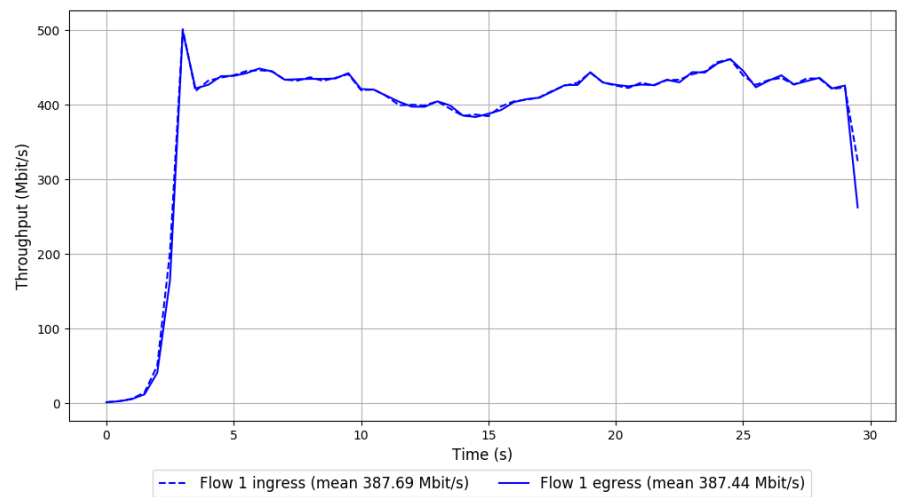
-- Flow 1:

Average throughput: 387.44 Mbit/s

95th percentile per-packet one-way delay: 63.075 ms

Loss rate: 0.49%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-13 13:32:24

End at: 2018-02-13 13:32:54

Below is generated by plot.py at 2018-02-13 17:17:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.48 Mbit/s

95th percentile per-packet one-way delay: 61.659 ms

Loss rate: 0.70%

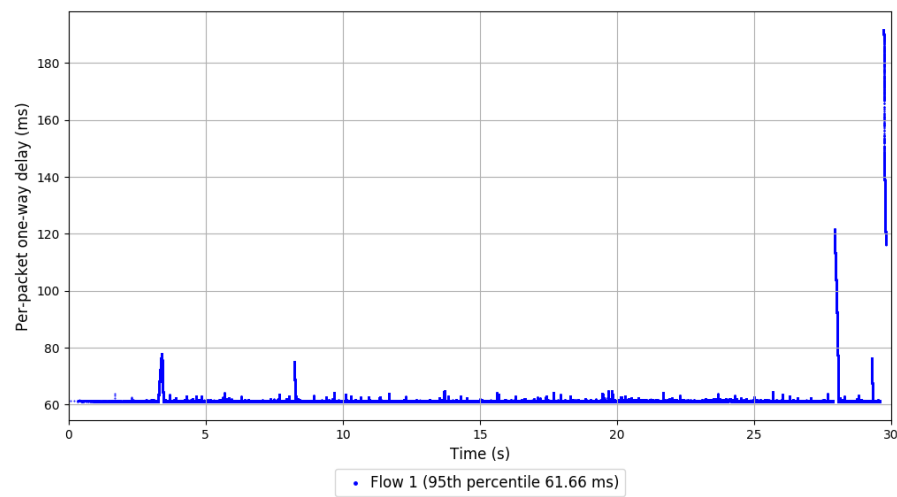
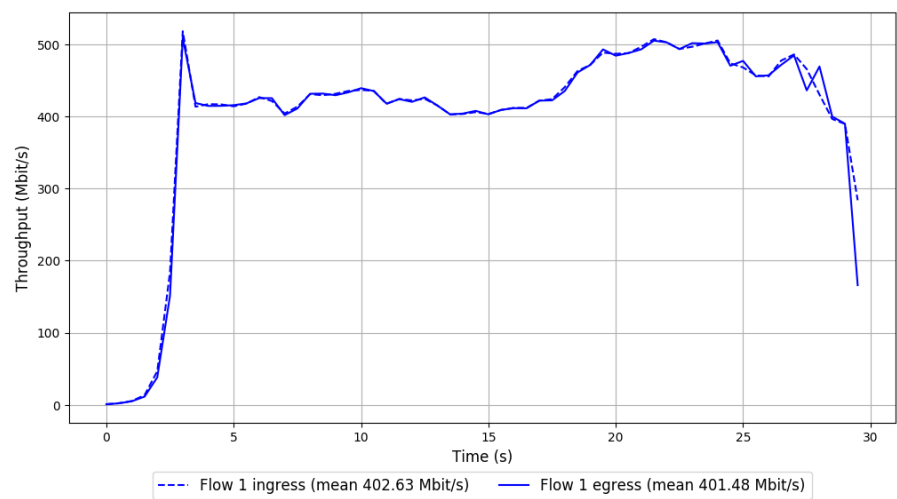
-- Flow 1:

Average throughput: 401.48 Mbit/s

95th percentile per-packet one-way delay: 61.659 ms

Loss rate: 0.70%

Run 10: Report of Vivace-latency — Data Link

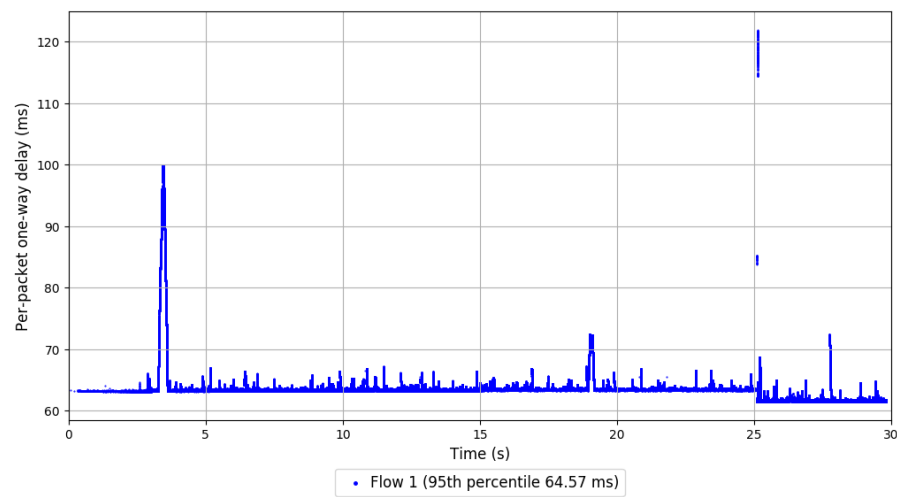
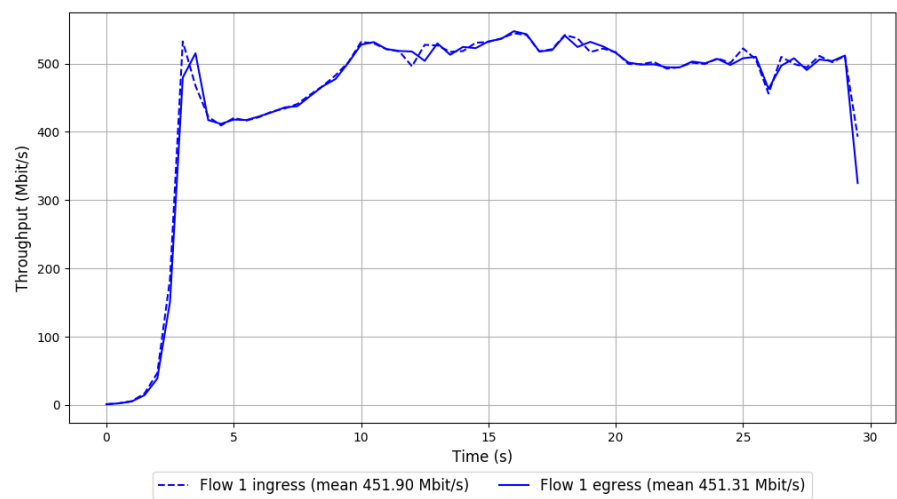


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-13 11:13:35
End at: 2018-02-13 11:14:05

# Below is generated by plot.py at 2018-02-13 17:18:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 451.31 Mbit/s
95th percentile per-packet one-way delay: 64.573 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 451.31 Mbit/s
95th percentile per-packet one-way delay: 64.573 ms
Loss rate: 0.55%
```

Run 1: Report of Vivace-loss — Data Link

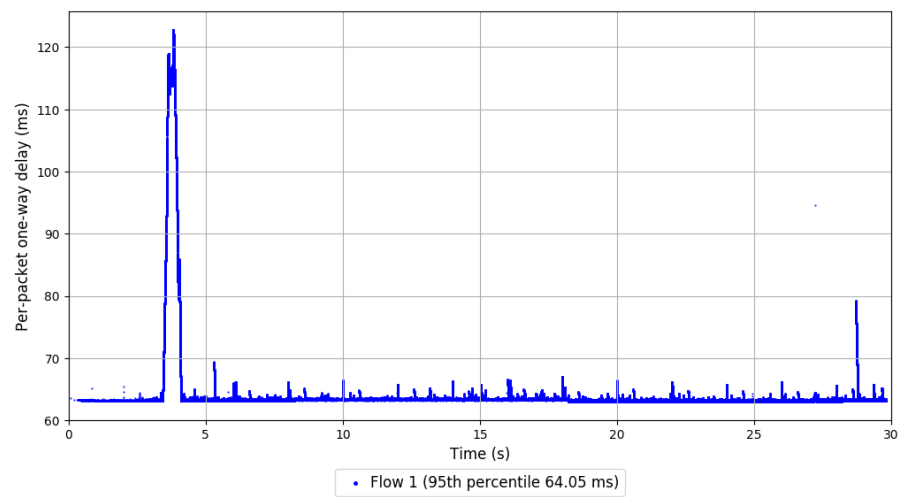
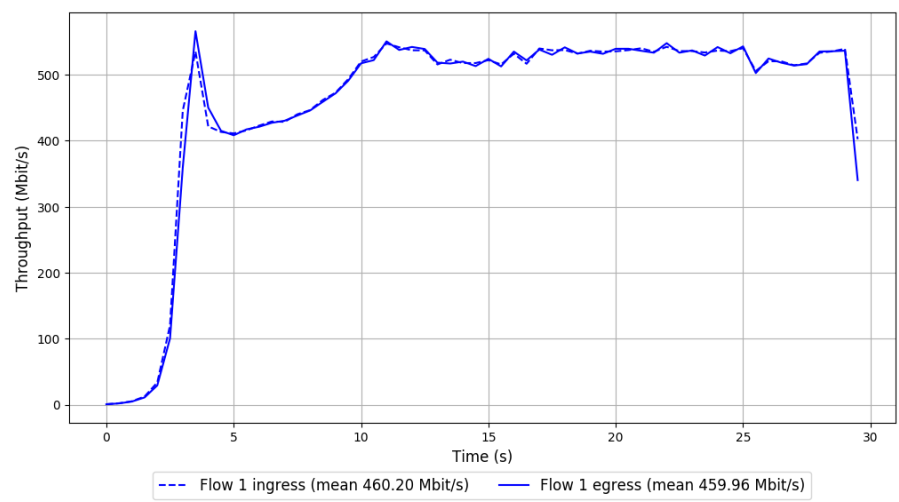


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-13 11:28:22
End at: 2018-02-13 11:28:52

# Below is generated by plot.py at 2018-02-13 17:19:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 459.96 Mbit/s
95th percentile per-packet one-way delay: 64.050 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 459.96 Mbit/s
95th percentile per-packet one-way delay: 64.050 ms
Loss rate: 0.48%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-13 11:43:13

End at: 2018-02-13 11:43:43

Below is generated by plot.py at 2018-02-13 17:20:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.74 Mbit/s

95th percentile per-packet one-way delay: 73.966 ms

Loss rate: 0.52%

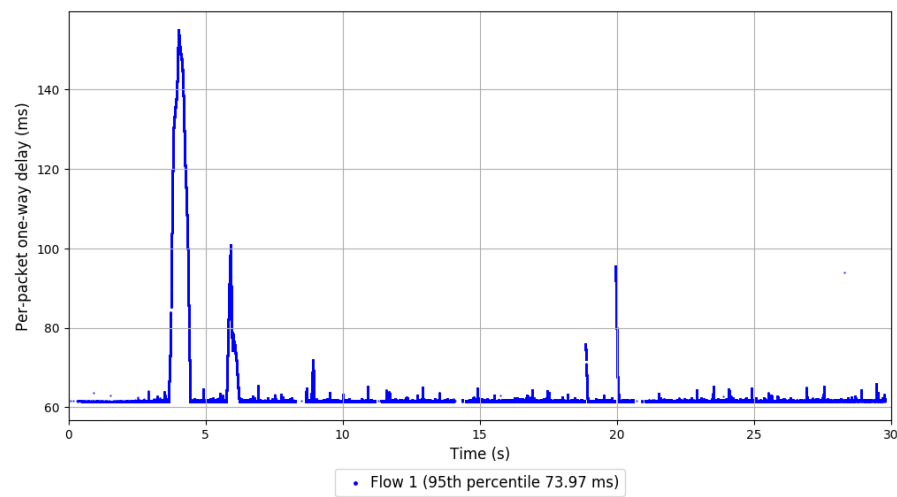
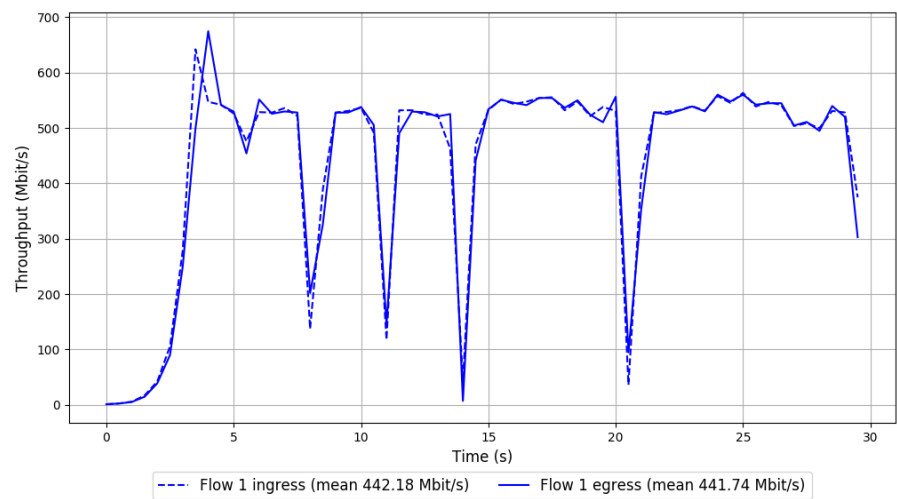
-- Flow 1:

Average throughput: 441.74 Mbit/s

95th percentile per-packet one-way delay: 73.966 ms

Loss rate: 0.52%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-13 11:58:04

End at: 2018-02-13 11:58:34

Below is generated by plot.py at 2018-02-13 17:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.58 Mbit/s

95th percentile per-packet one-way delay: 73.959 ms

Loss rate: 0.52%

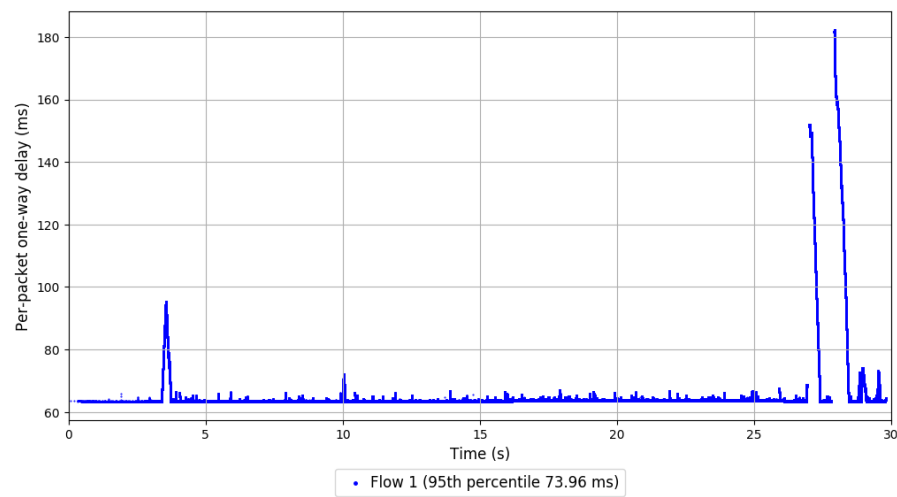
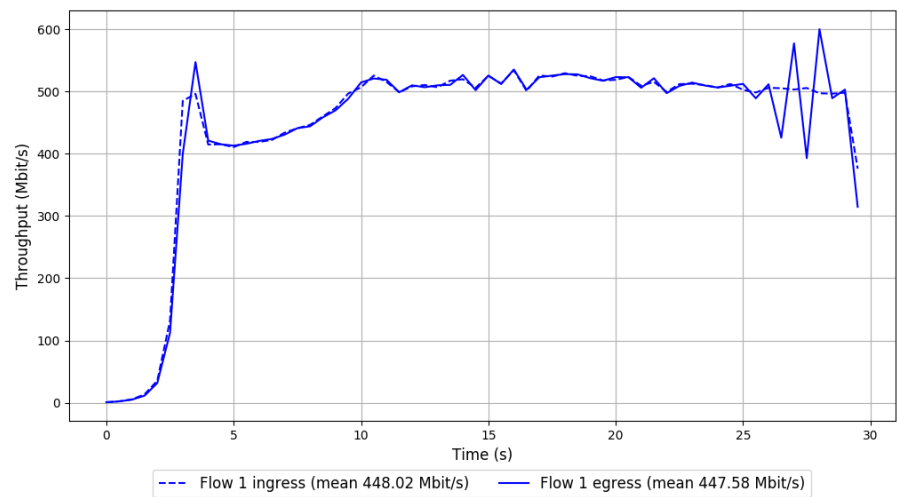
-- Flow 1:

Average throughput: 447.58 Mbit/s

95th percentile per-packet one-way delay: 73.959 ms

Loss rate: 0.52%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-13 12:12:38

End at: 2018-02-13 12:13:08

Below is generated by plot.py at 2018-02-13 17:23:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 471.31 Mbit/s

95th percentile per-packet one-way delay: 66.867 ms

Loss rate: 0.34%

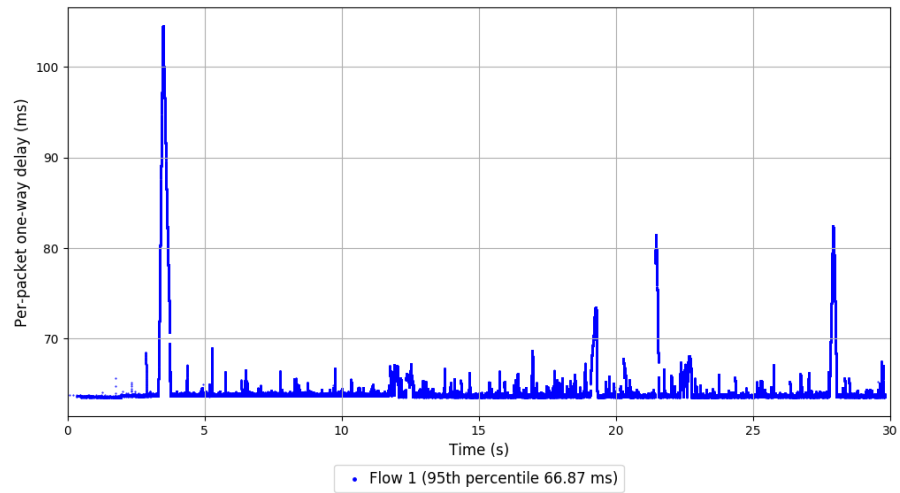
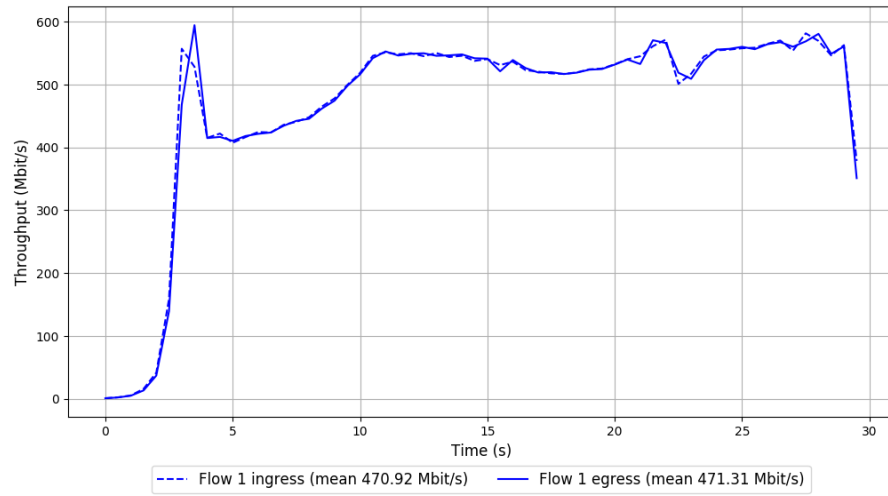
-- Flow 1:

Average throughput: 471.31 Mbit/s

95th percentile per-packet one-way delay: 66.867 ms

Loss rate: 0.34%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-13 12:27:06

End at: 2018-02-13 12:27:36

Below is generated by plot.py at 2018-02-13 17:23:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.64 Mbit/s

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

Loss rate: 0.49%

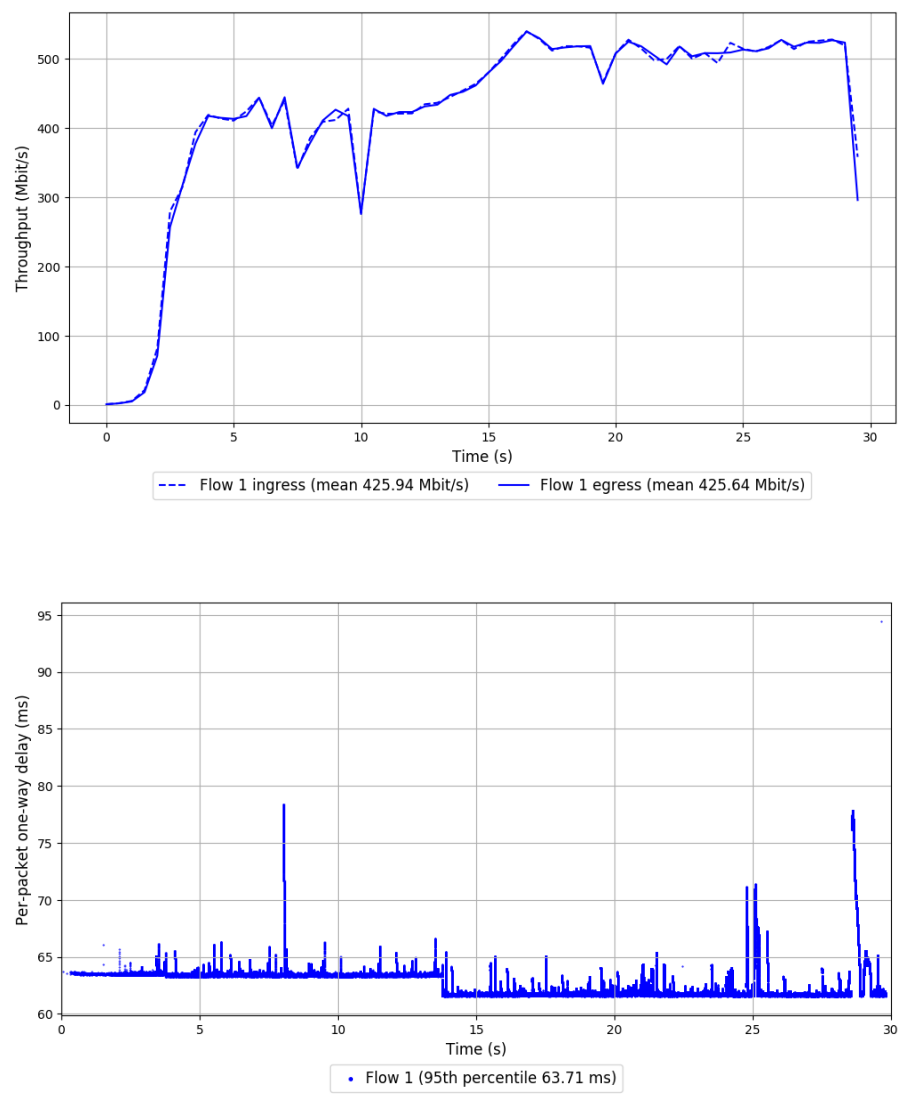
-- Flow 1:

Average throughput: 425.64 Mbit/s

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

Loss rate: 0.49%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-13 12:41:56

End at: 2018-02-13 12:42:26

Below is generated by plot.py at 2018-02-13 17:23:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.15 Mbit/s

95th percentile per-packet one-way delay: 64.217 ms

Loss rate: 0.50%

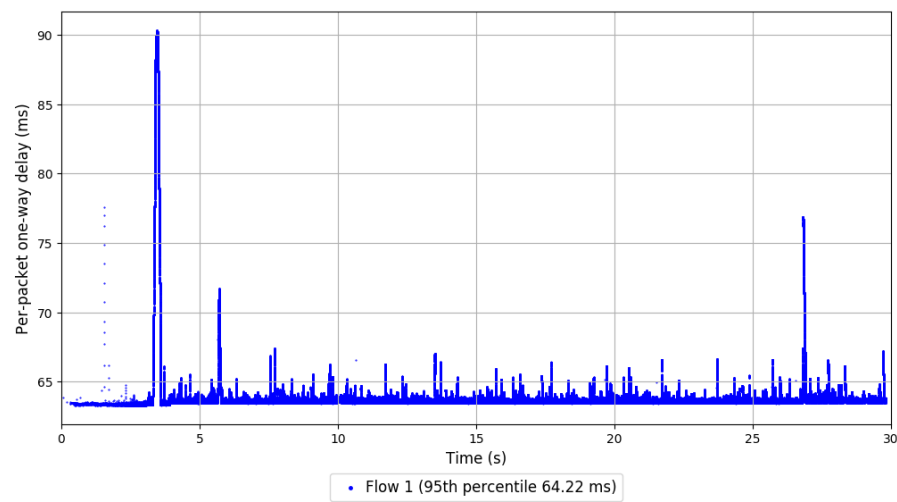
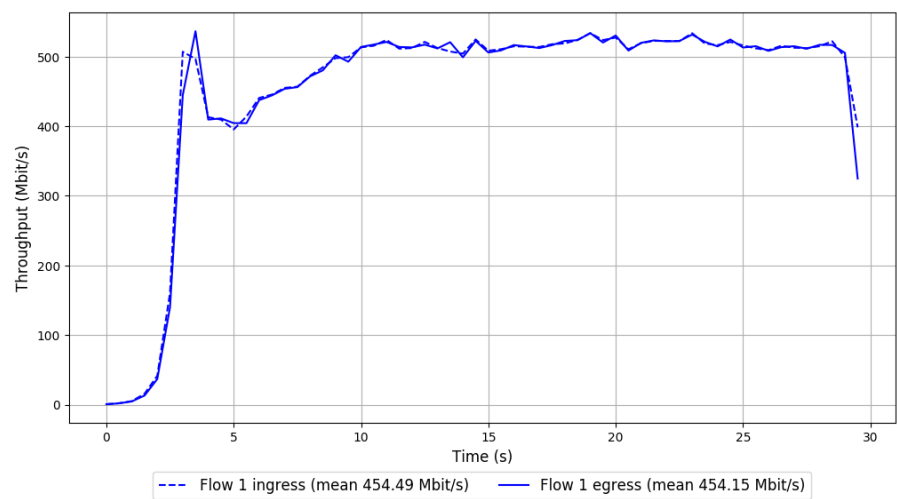
-- Flow 1:

Average throughput: 454.15 Mbit/s

95th percentile per-packet one-way delay: 64.217 ms

Loss rate: 0.50%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-13 12:56:43

End at: 2018-02-13 12:57:13

Below is generated by plot.py at 2018-02-13 17:24:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.82 Mbit/s

95th percentile per-packet one-way delay: 67.259 ms

Loss rate: 0.27%

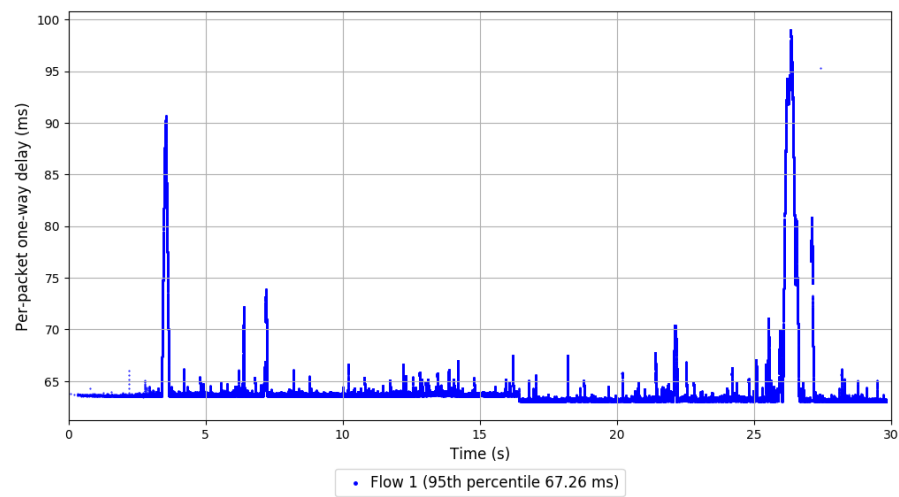
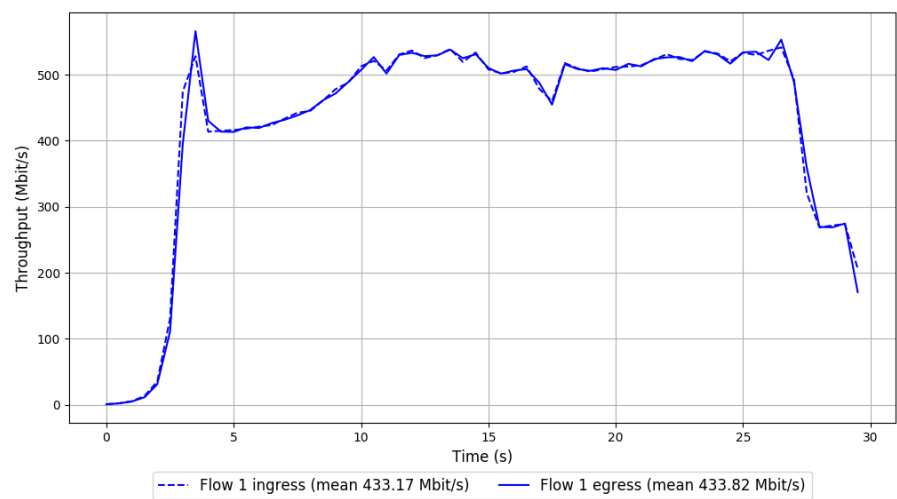
-- Flow 1:

Average throughput: 433.82 Mbit/s

95th percentile per-packet one-way delay: 67.259 ms

Loss rate: 0.27%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-13 13:11:33

End at: 2018-02-13 13:12:03

Below is generated by plot.py at 2018-02-13 17:26:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.13 Mbit/s

95th percentile per-packet one-way delay: 89.875 ms

Loss rate: 0.27%

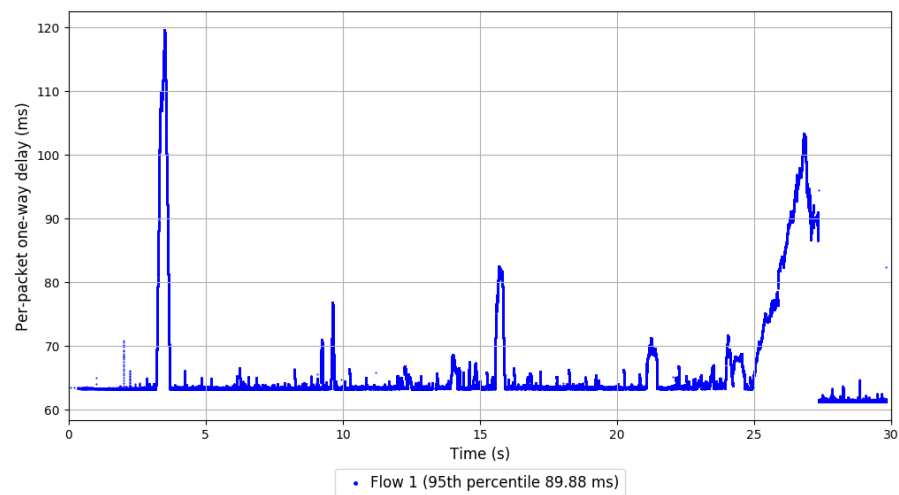
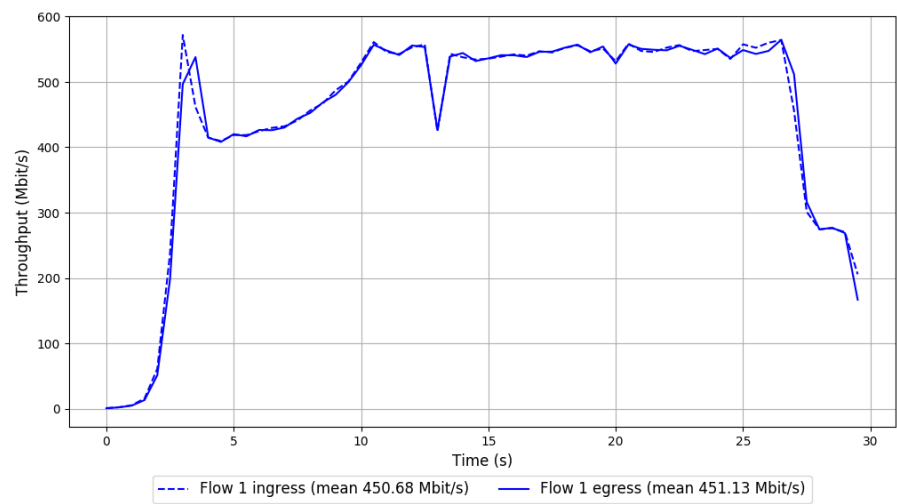
-- Flow 1:

Average throughput: 451.13 Mbit/s

95th percentile per-packet one-way delay: 89.875 ms

Loss rate: 0.27%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-13 13:26:01

End at: 2018-02-13 13:26:31

Below is generated by plot.py at 2018-02-13 17:26:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.01 Mbit/s

95th percentile per-packet one-way delay: 76.248 ms

Loss rate: 0.60%

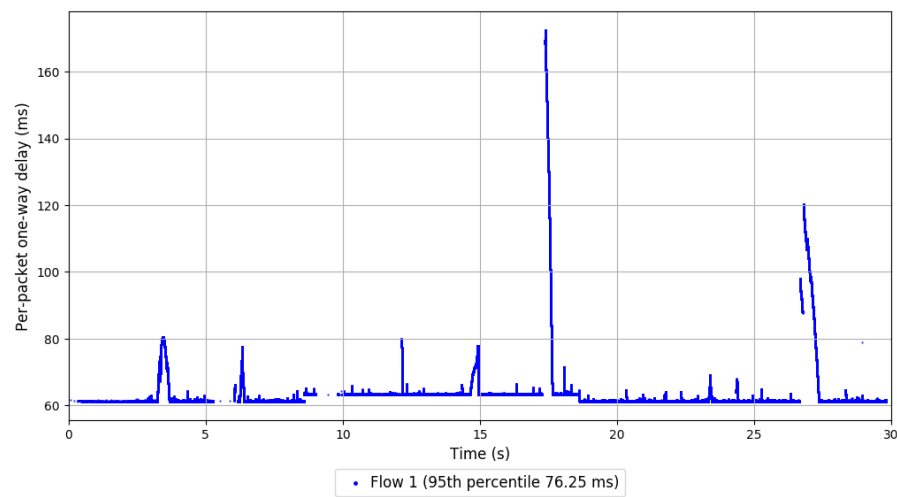
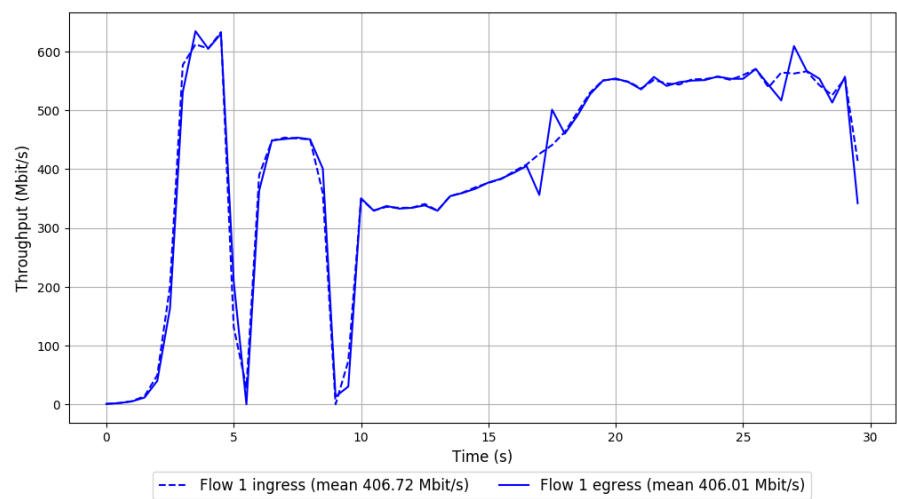
-- Flow 1:

Average throughput: 406.01 Mbit/s

95th percentile per-packet one-way delay: 76.248 ms

Loss rate: 0.60%

Run 10: Report of Vivace-loss — Data Link

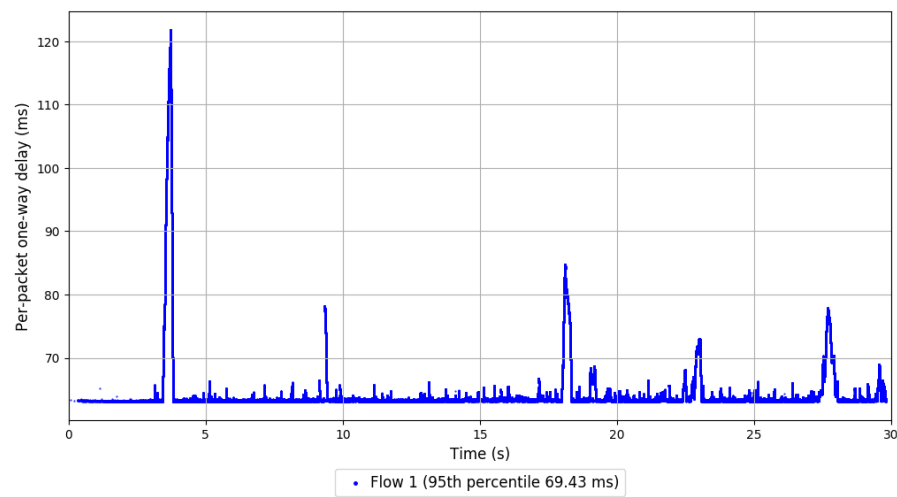
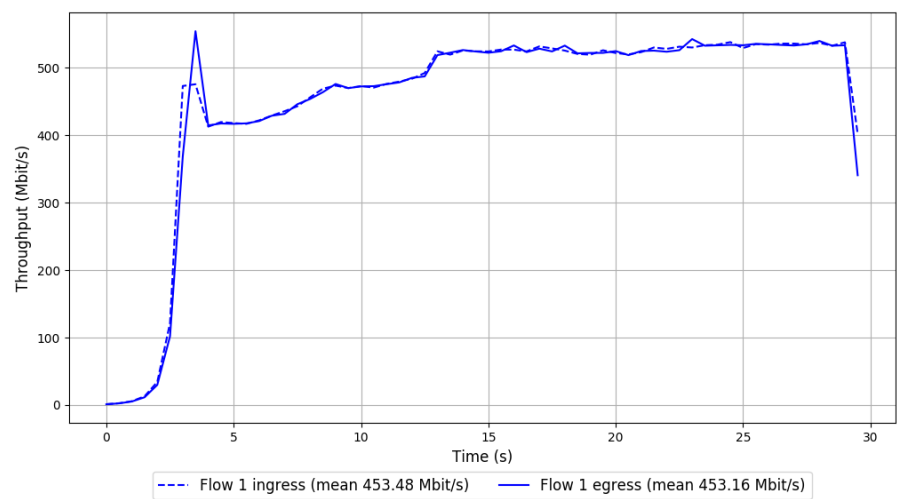


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-13 11:18:16
End at: 2018-02-13 11:18:46

# Below is generated by plot.py at 2018-02-13 17:27:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 453.16 Mbit/s
95th percentile per-packet one-way delay: 69.430 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 453.16 Mbit/s
95th percentile per-packet one-way delay: 69.430 ms
Loss rate: 0.49%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-13 11:32:57

End at: 2018-02-13 11:33:27

Below is generated by plot.py at 2018-02-13 17:29:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.95 Mbit/s

95th percentile per-packet one-way delay: 66.009 ms

Loss rate: 0.44%

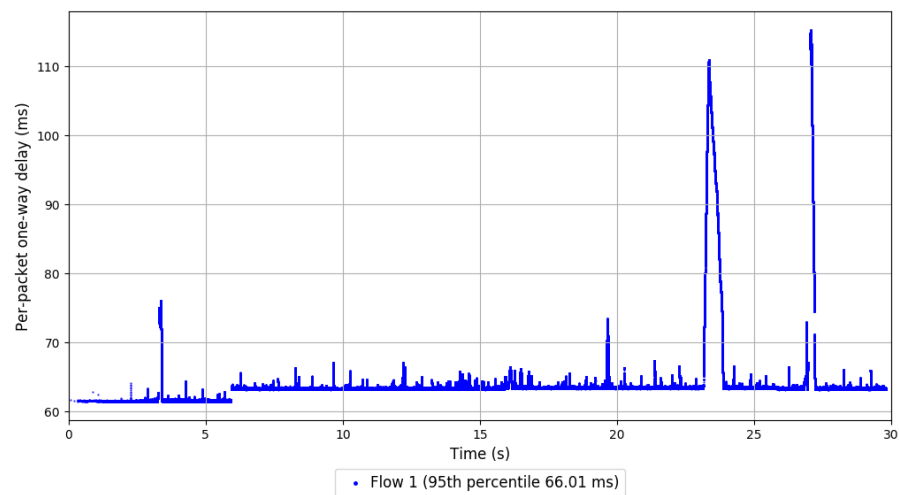
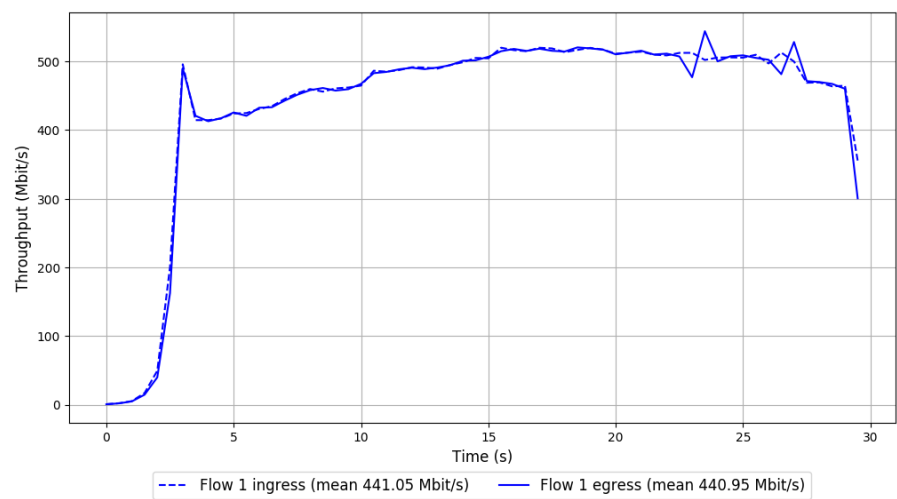
-- Flow 1:

Average throughput: 440.95 Mbit/s

95th percentile per-packet one-way delay: 66.009 ms

Loss rate: 0.44%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-13 11:47:50

End at: 2018-02-13 11:48:20

Below is generated by plot.py at 2018-02-13 17:29:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.06 Mbit/s

95th percentile per-packet one-way delay: 63.760 ms

Loss rate: 0.29%

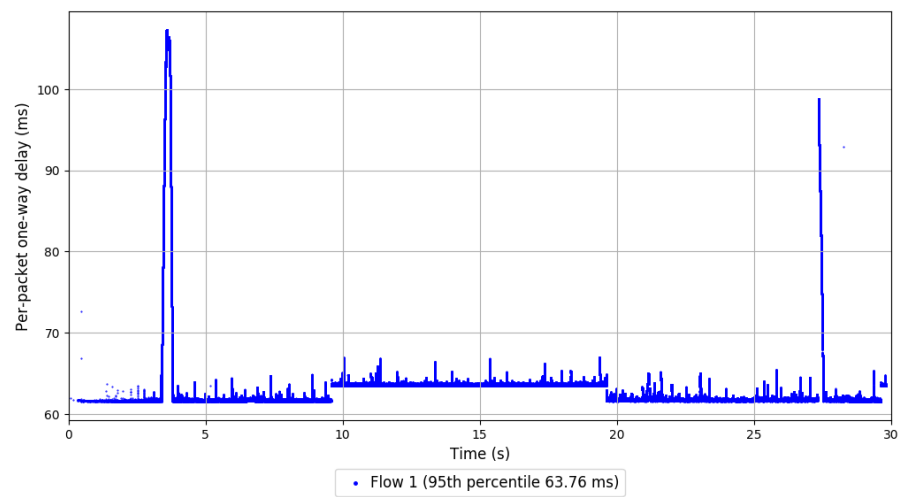
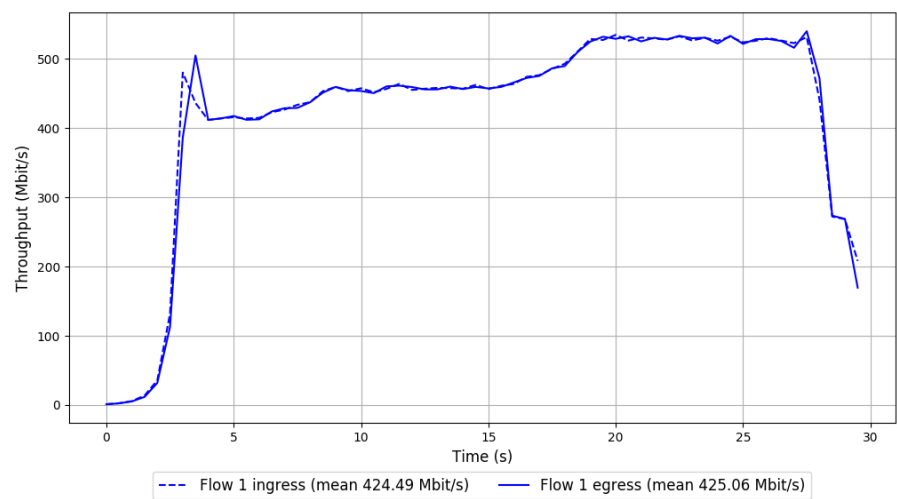
-- Flow 1:

Average throughput: 425.06 Mbit/s

95th percentile per-packet one-way delay: 63.760 ms

Loss rate: 0.29%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-13 12:02:36

End at: 2018-02-13 12:03:06

Below is generated by plot.py at 2018-02-13 17:30:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.24 Mbit/s

95th percentile per-packet one-way delay: 71.132 ms

Loss rate: 0.51%

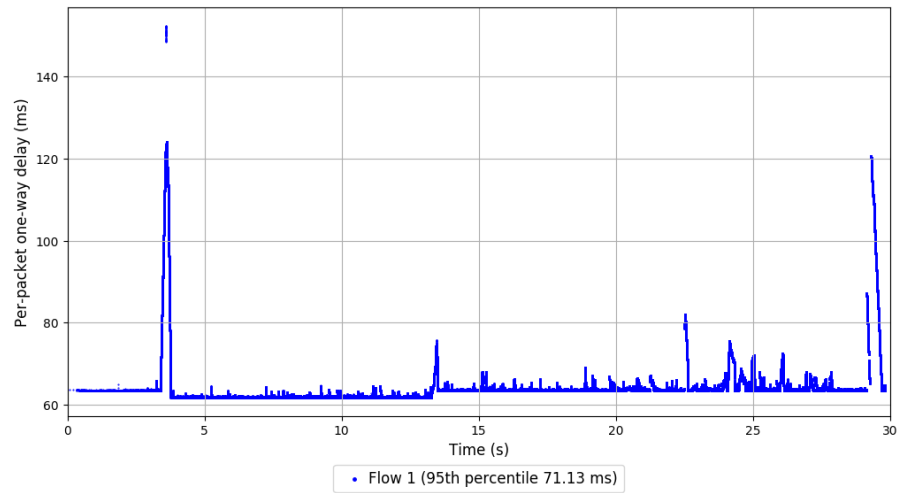
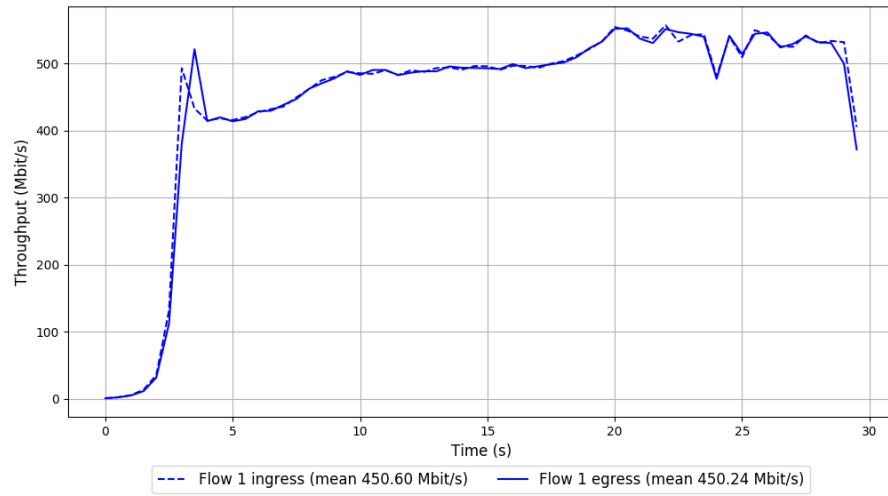
-- Flow 1:

Average throughput: 450.24 Mbit/s

95th percentile per-packet one-way delay: 71.132 ms

Loss rate: 0.51%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-13 12:17:14

End at: 2018-02-13 12:17:44

Below is generated by plot.py at 2018-02-13 17:30:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.78 Mbit/s

95th percentile per-packet one-way delay: 64.364 ms

Loss rate: 0.49%

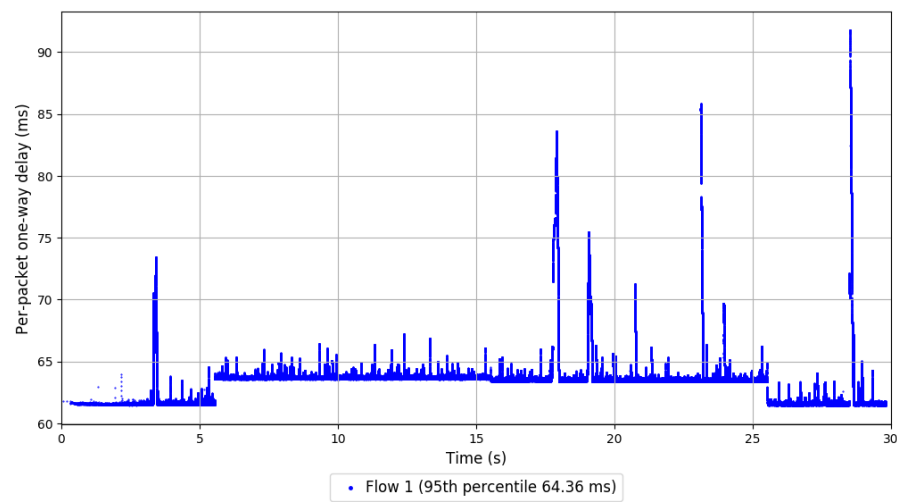
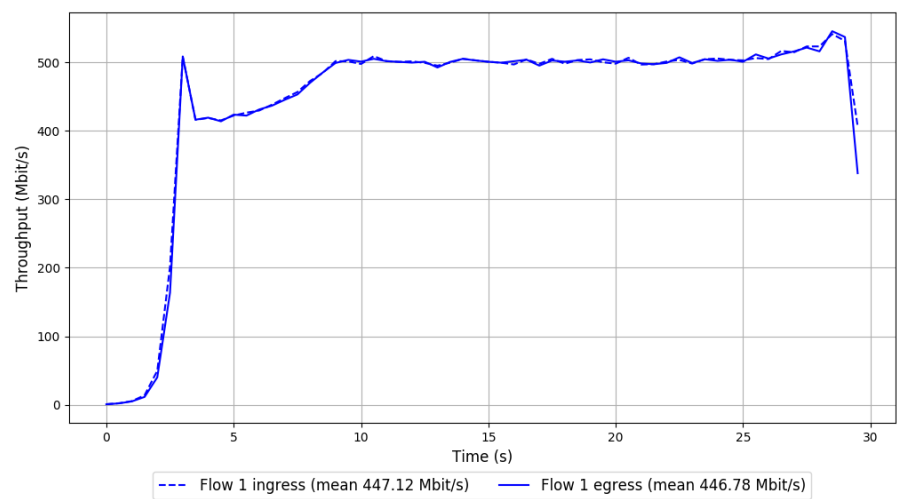
-- Flow 1:

Average throughput: 446.78 Mbit/s

95th percentile per-packet one-way delay: 64.364 ms

Loss rate: 0.49%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-13 12:31:46

End at: 2018-02-13 12:32:16

Below is generated by plot.py at 2018-02-13 17:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.48 Mbit/s

95th percentile per-packet one-way delay: 63.621 ms

Loss rate: 0.26%

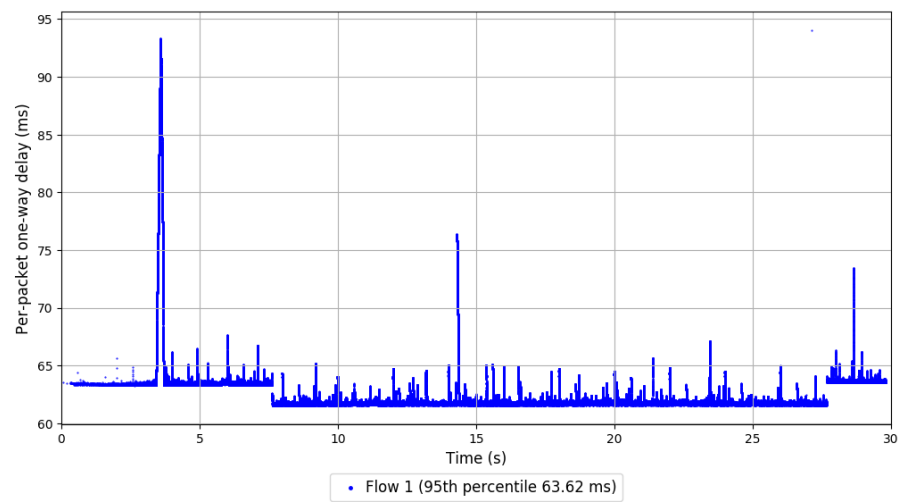
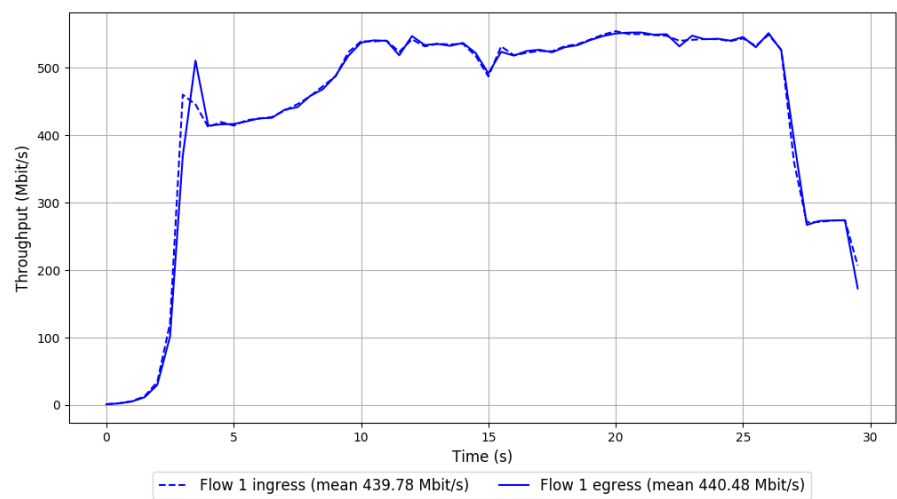
-- Flow 1:

Average throughput: 440.48 Mbit/s

95th percentile per-packet one-way delay: 63.621 ms

Loss rate: 0.26%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-13 12:46:36

End at: 2018-02-13 12:47:06

Below is generated by plot.py at 2018-02-13 17:31:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 428.12 Mbit/s

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

Loss rate: 0.50%

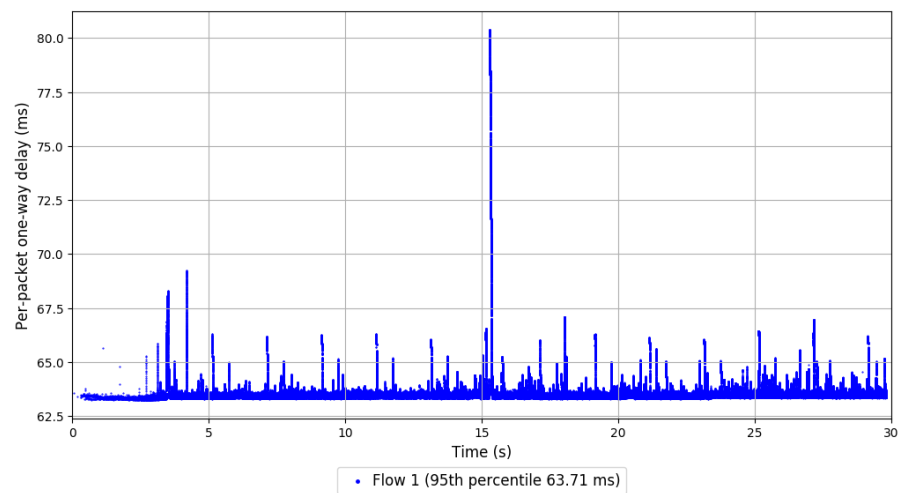
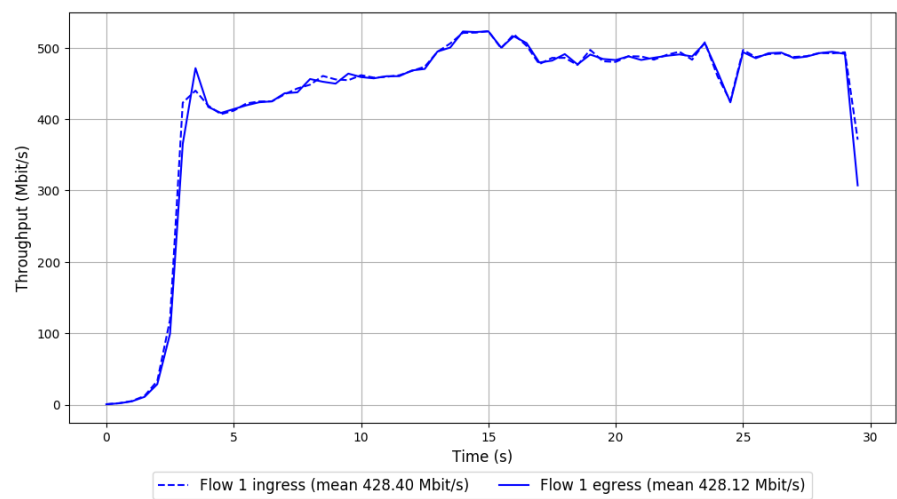
-- Flow 1:

Average throughput: 428.12 Mbit/s

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

Loss rate: 0.50%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-13 13:01:20

End at: 2018-02-13 13:01:50

Below is generated by plot.py at 2018-02-13 17:31:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.87 Mbit/s

95th percentile per-packet one-way delay: 65.724 ms

Loss rate: 0.51%

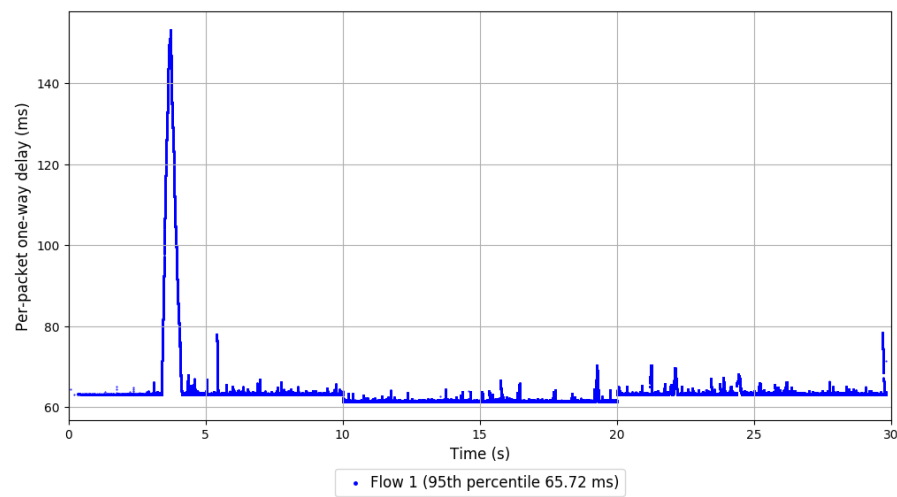
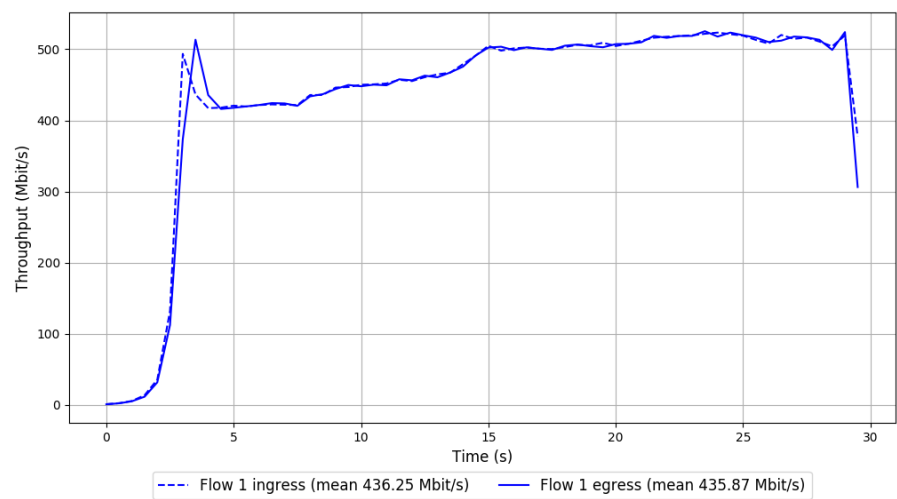
-- Flow 1:

Average throughput: 435.87 Mbit/s

95th percentile per-packet one-way delay: 65.724 ms

Loss rate: 0.51%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-13 13:16:12

End at: 2018-02-13 13:16:42

Below is generated by plot.py at 2018-02-13 17:32:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.00 Mbit/s

95th percentile per-packet one-way delay: 64.373 ms

Loss rate: 0.46%

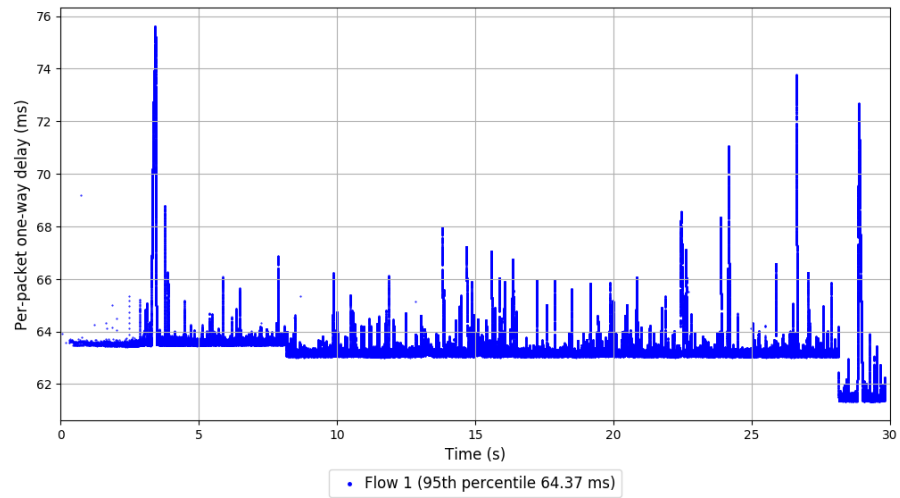
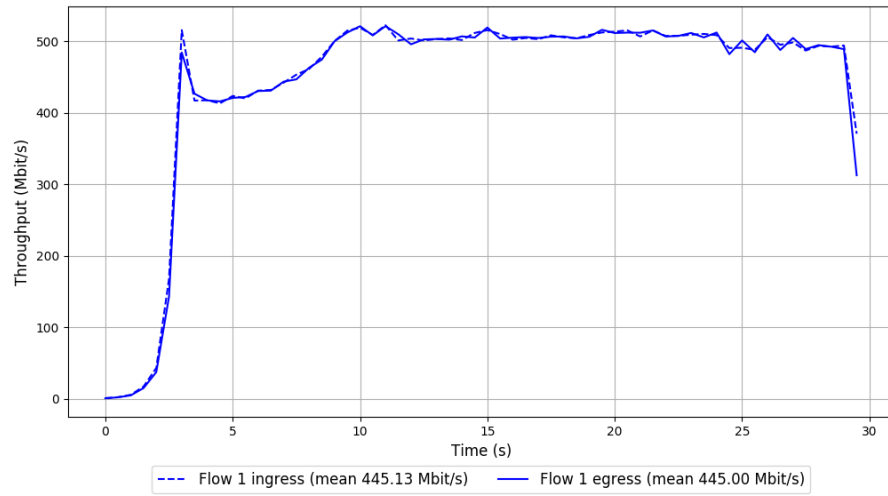
-- Flow 1:

Average throughput: 445.00 Mbit/s

95th percentile per-packet one-way delay: 64.373 ms

Loss rate: 0.46%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-13 13:30:36
End at: 2018-02-13 13:31:06

# Below is generated by plot.py at 2018-02-13 17:32:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 417.51 Mbit/s
95th percentile per-packet one-way delay: 63.331 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 417.51 Mbit/s
95th percentile per-packet one-way delay: 63.331 ms
Loss rate: 0.48%
```

Run 10: Report of Vivace-LTE — Data Link

