

Pantheon Report

Generated at 2018-01-02 15:01:25 (UTC).

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

Repeated the test of 14 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

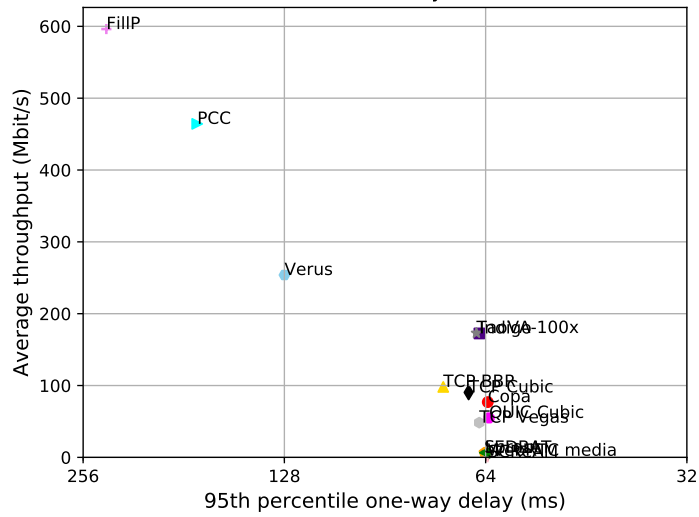
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

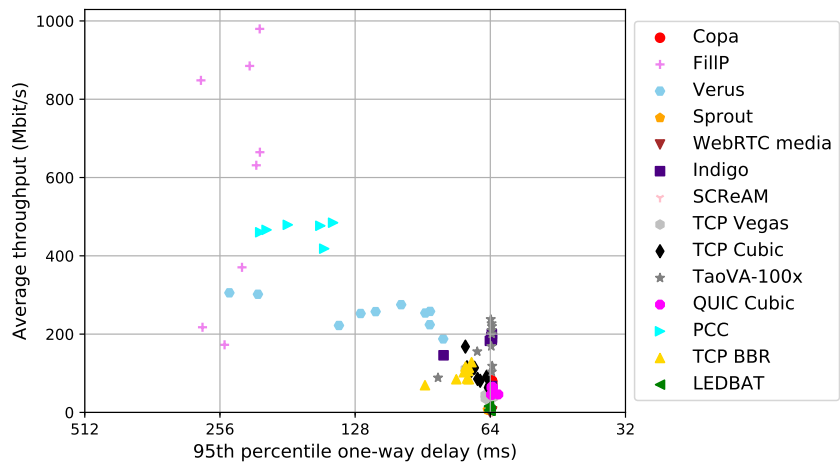
Git summary:

```
branch: master @ 904a5750834816b1e46a2c86405d707788d27c16
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ dcaef6b00654e660f73f7ed679d2eab61ce08639
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webRTC @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	98.09	74.06	1.77
TCP Cubic	10	90.42	67.86	0.13
LEDBAT	10	6.41	64.19	0.14
PCC	6	464.23	172.82	0.59
QUIC Cubic	10	54.92	63.24	0.00
SCReAM	7	0.21	63.60	0.00
WebRTC media	10	2.24	63.62	0.00
Sprout	10	6.58	64.32	0.21
TaoVA-100x	10	173.08	66.06	0.21
TCP Vegas	9	48.32	65.42	0.05
Verus	10	253.85	127.97	0.58
Copa	10	76.94	63.53	0.01
FillP	8	596.22	236.33	0.53
Indigo	10	172.50	65.38	0.19

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 11:32:13

End at: 2018-01-02 11:32:43

Below is generated by plot.py at 2018-01-02 14:16:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.52 Mbit/s

95th percentile per-packet one-way delay: 89.466 ms

Loss rate: 17.01%

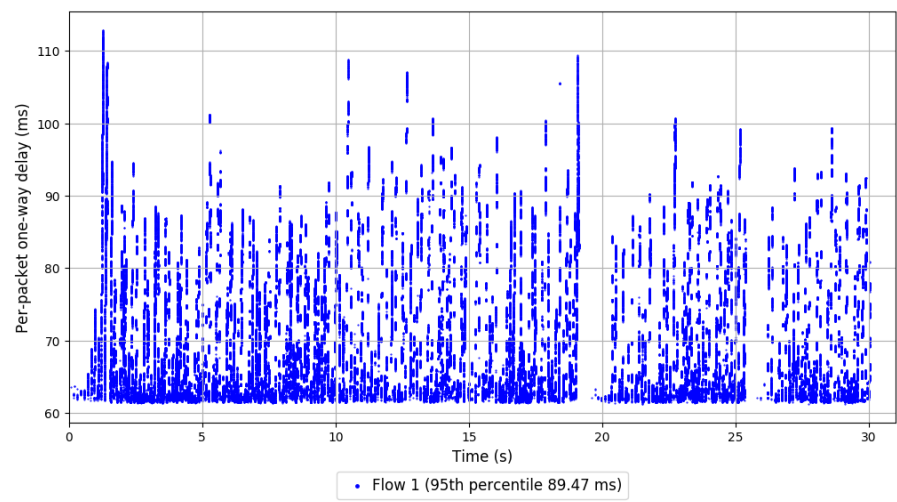
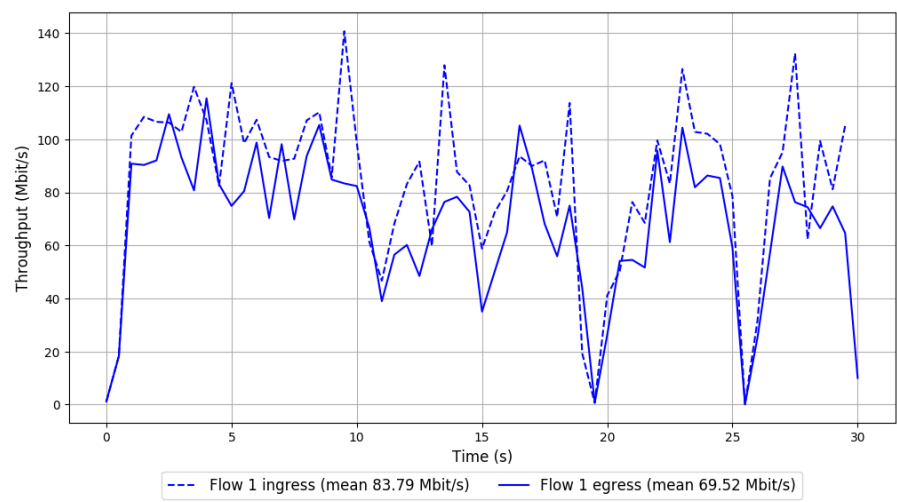
-- Flow 1:

Average throughput: 69.52 Mbit/s

95th percentile per-packet one-way delay: 89.466 ms

Loss rate: 17.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 11:43:36

End at: 2018-01-02 11:44:06

Below is generated by plot.py at 2018-01-02 14:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.07 Mbit/s

95th percentile per-packet one-way delay: 72.682 ms

Loss rate: 0.01%

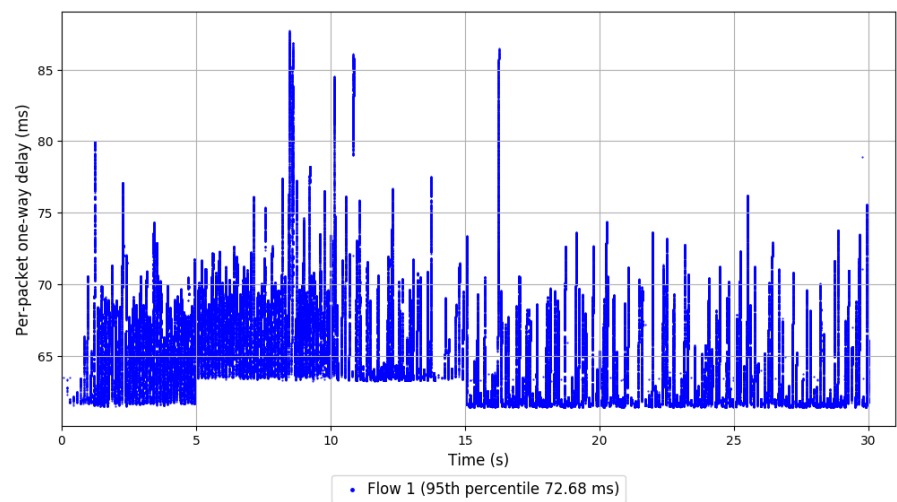
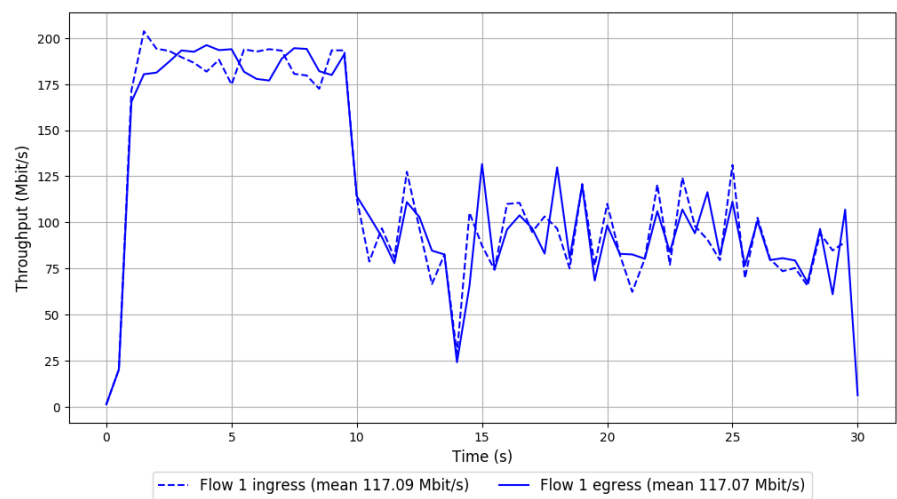
-- Flow 1:

Average throughput: 117.07 Mbit/s

95th percentile per-packet one-way delay: 72.682 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 11:54:53

End at: 2018-01-02 11:55:23

Below is generated by plot.py at 2018-01-02 14:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 76.183 ms

Loss rate: 0.01%

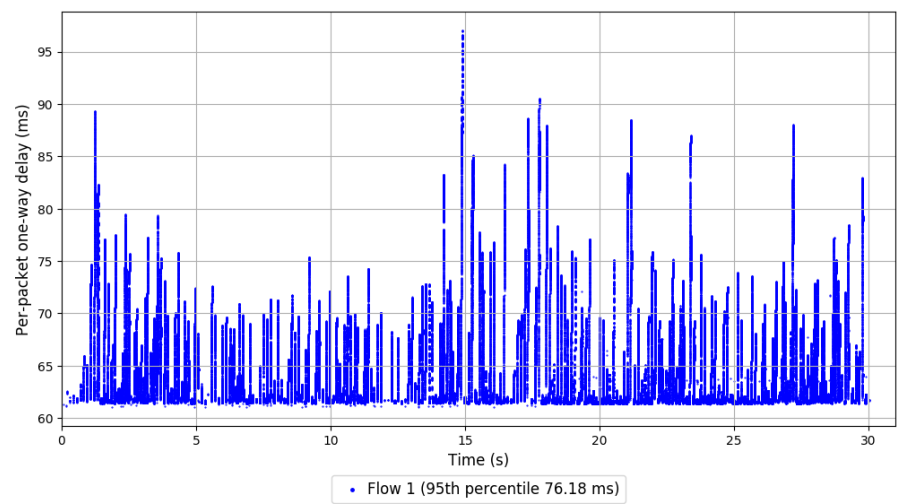
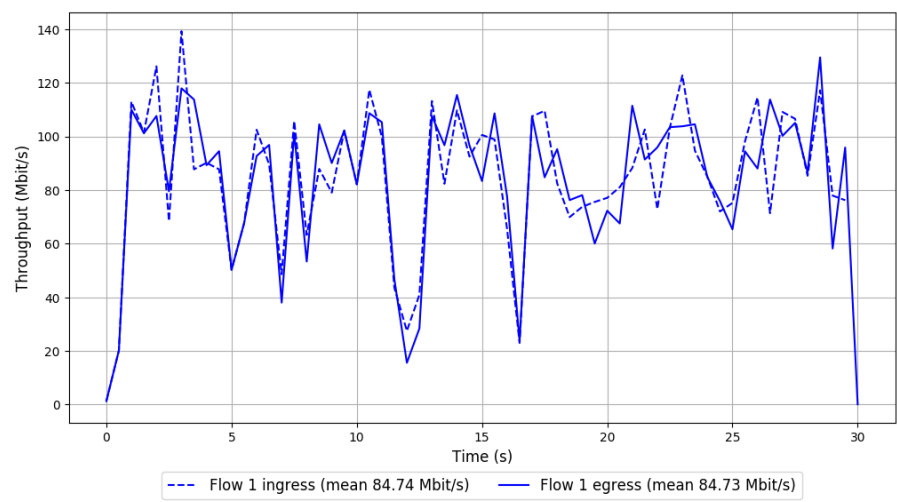
-- Flow 1:

Average throughput: 84.73 Mbit/s

95th percentile per-packet one-way delay: 76.183 ms

Loss rate: 0.01%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 12:06:40

End at: 2018-01-02 12:07:10

Below is generated by plot.py at 2018-01-02 14:17:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.29 Mbit/s

95th percentile per-packet one-way delay: 70.453 ms

Loss rate: 0.00%

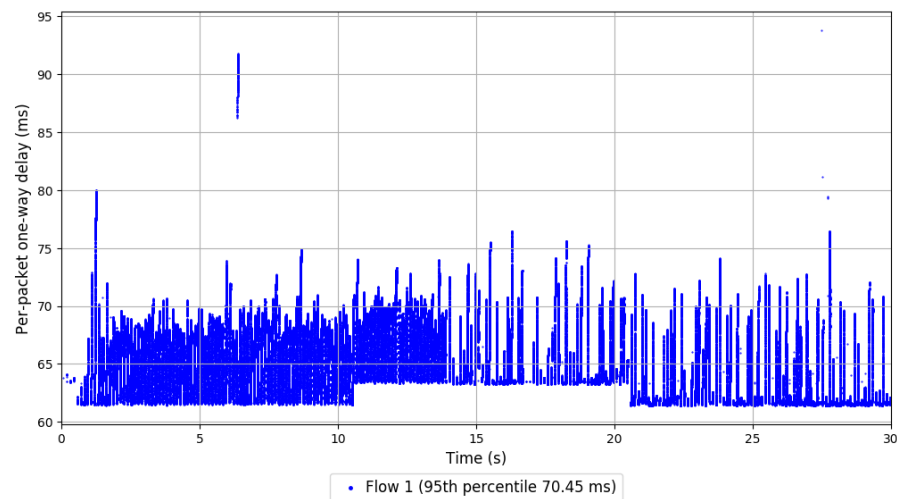
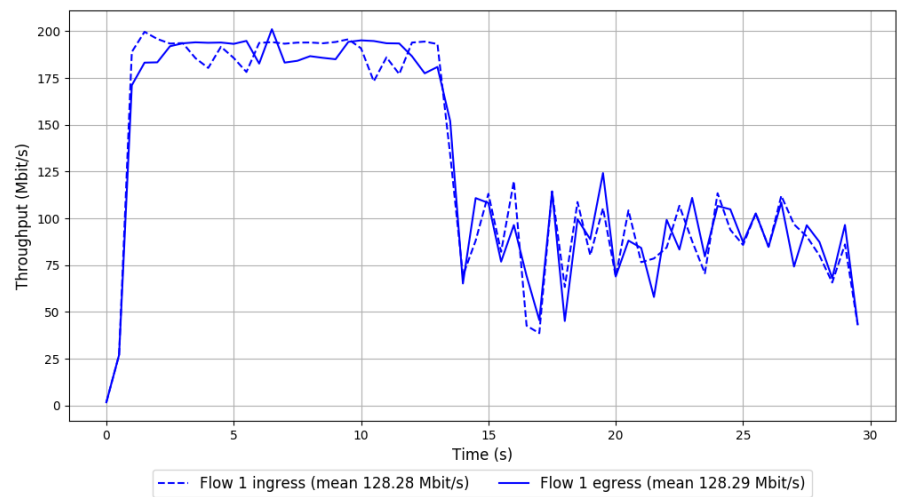
-- Flow 1:

Average throughput: 128.29 Mbit/s

95th percentile per-packet one-way delay: 70.453 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 12:17:55

End at: 2018-01-02 12:18:25

Below is generated by plot.py at 2018-01-02 14:17:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.03 Mbit/s

95th percentile per-packet one-way delay: 71.691 ms

Loss rate: 0.00%

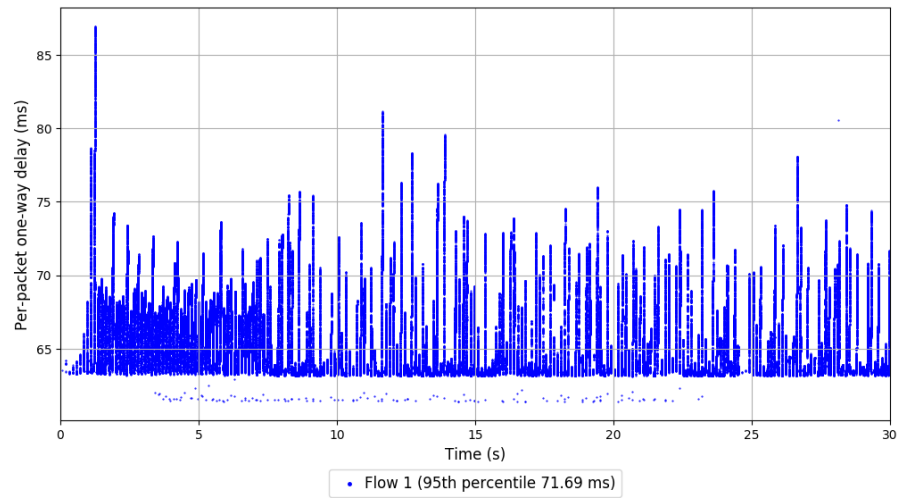
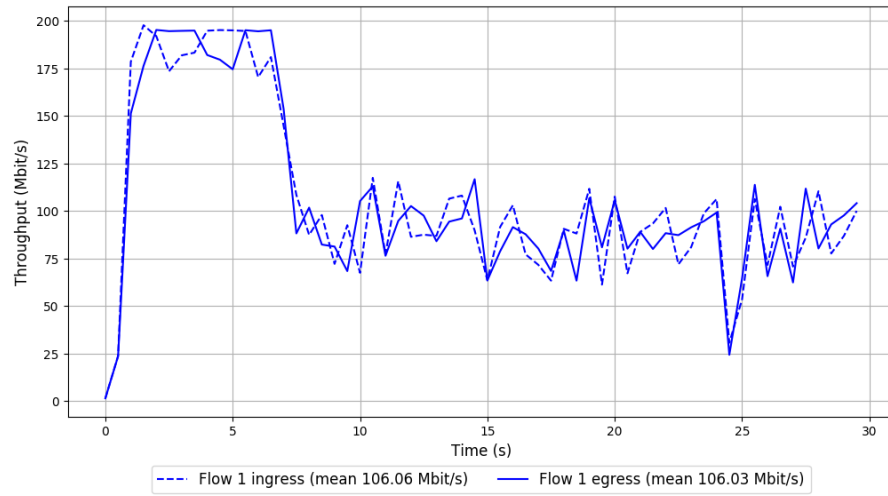
-- Flow 1:

Average throughput: 106.03 Mbit/s

95th percentile per-packet one-way delay: 71.691 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 12:29:19

End at: 2018-01-02 12:29:49

Below is generated by plot.py at 2018-01-02 14:17:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.61 Mbit/s

95th percentile per-packet one-way delay: 73.301 ms

Loss rate: 0.54%

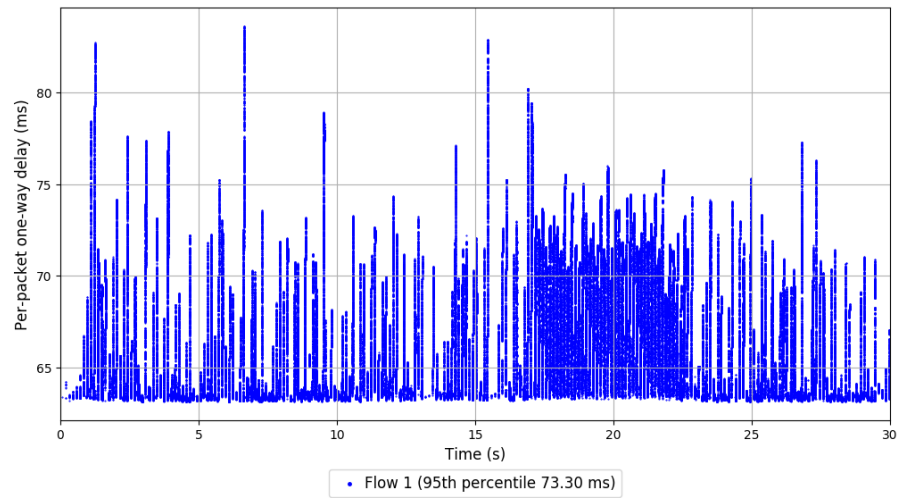
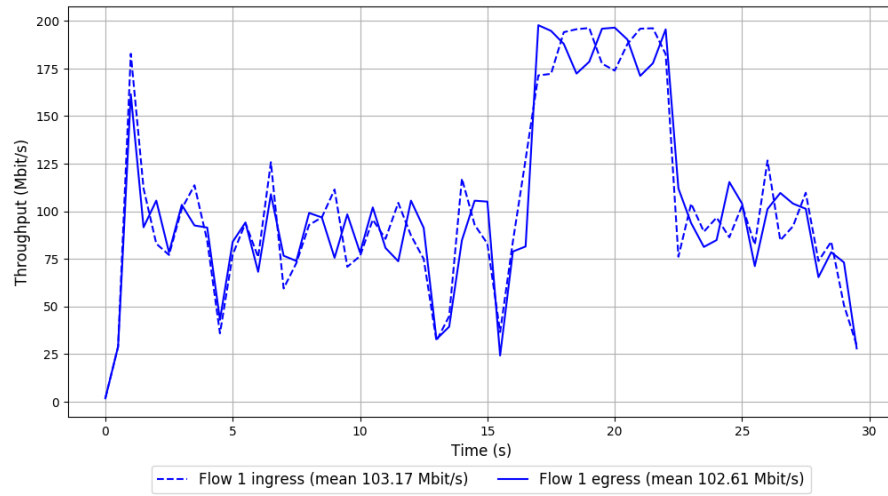
-- Flow 1:

Average throughput: 102.61 Mbit/s

95th percentile per-packet one-way delay: 73.301 ms

Loss rate: 0.54%

Run 6: Report of TCP BBR — Data Link

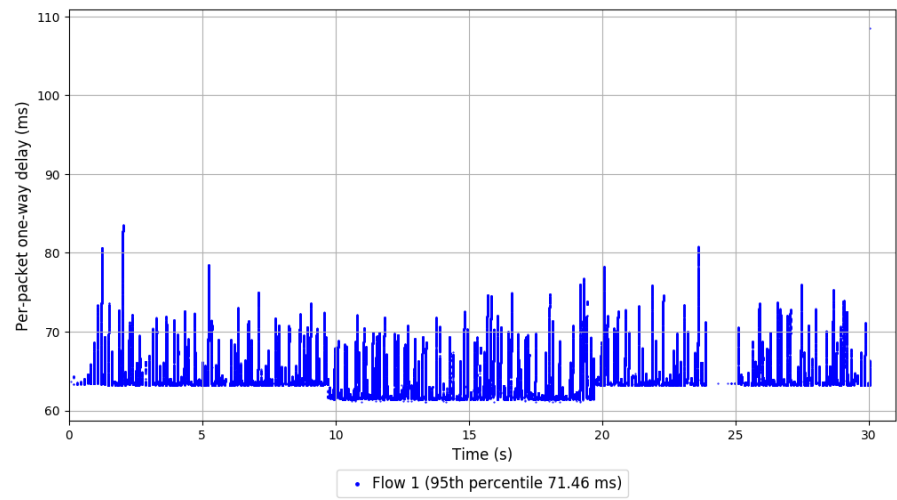
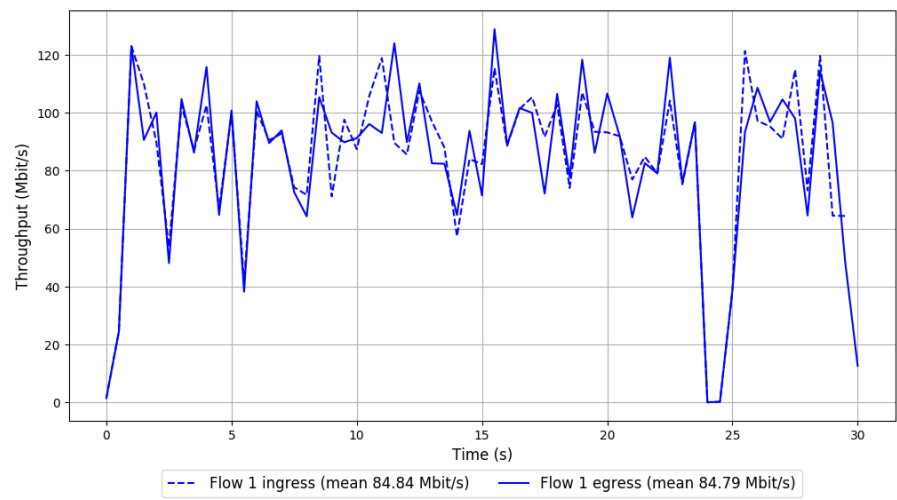


```
Run 7: Statistics of TCP BBR

Start at: 2018-01-02 12:41:01
End at: 2018-01-02 12:41:31

# Below is generated by plot.py at 2018-01-02 14:17:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.79 Mbit/s
95th percentile per-packet one-way delay: 71.458 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 84.79 Mbit/s
95th percentile per-packet one-way delay: 71.458 ms
Loss rate: 0.06%
```

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 12:52:22

End at: 2018-01-02 12:52:52

Below is generated by plot.py at 2018-01-02 14:17:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.51 Mbit/s

95th percentile per-packet one-way delay: 71.438 ms

Loss rate: 0.05%

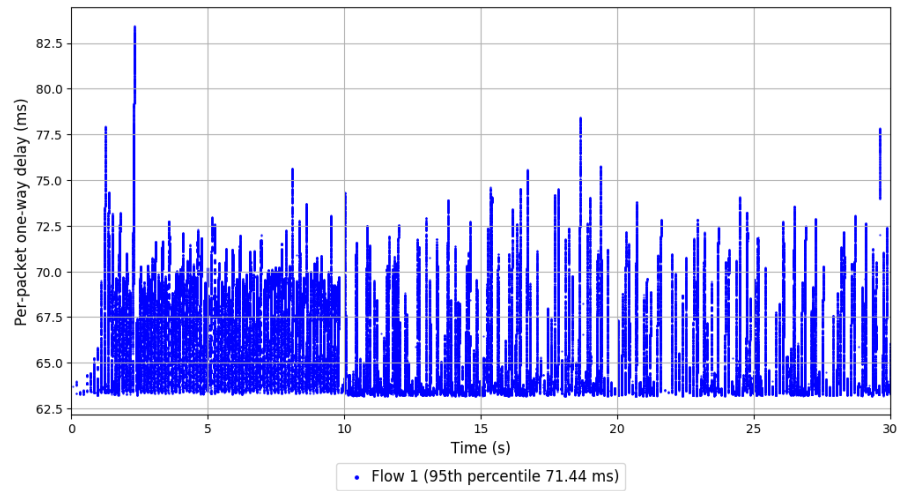
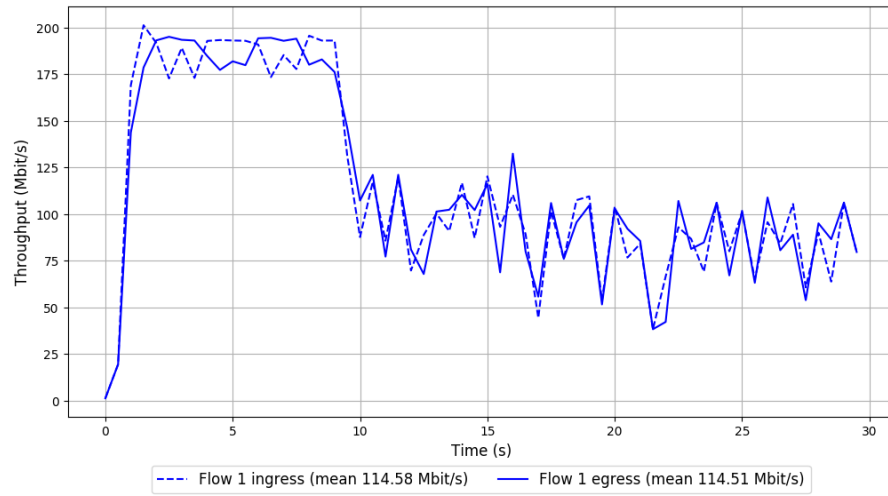
-- Flow 1:

Average throughput: 114.51 Mbit/s

95th percentile per-packet one-way delay: 71.438 ms

Loss rate: 0.05%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 13:03:25

End at: 2018-01-02 13:03:55

Below is generated by plot.py at 2018-01-02 14:17:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 72.002 ms

Loss rate: 0.00%

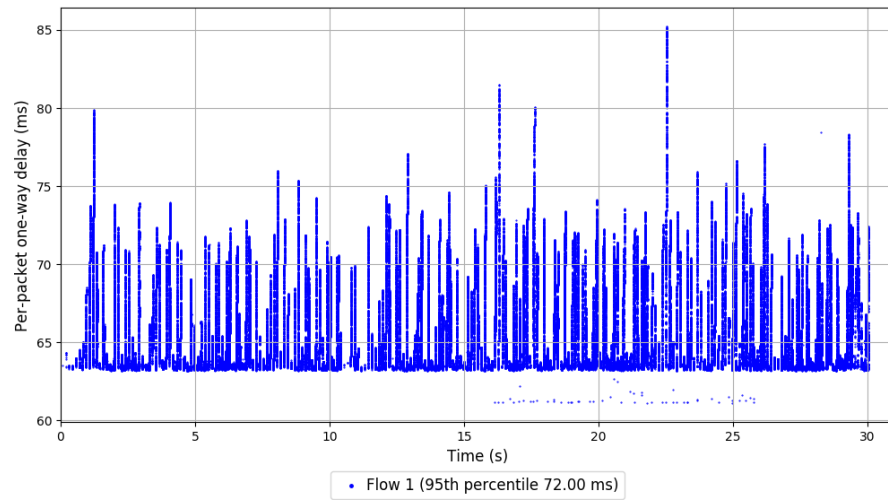
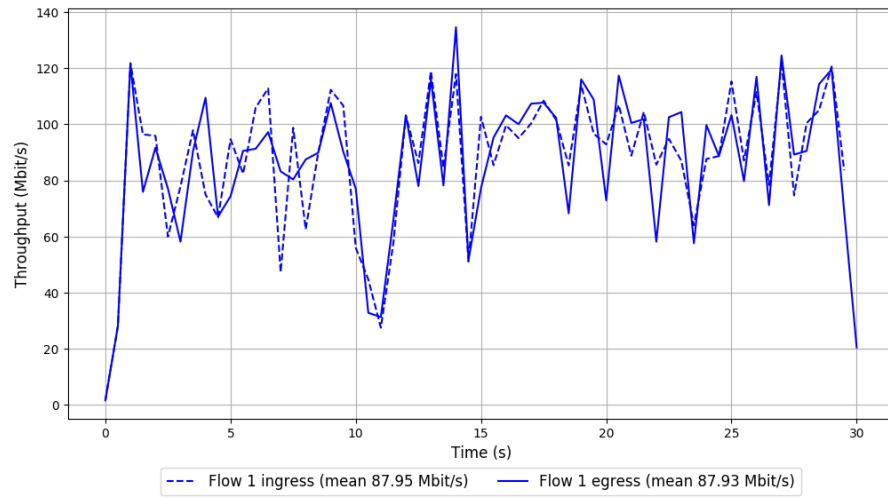
-- Flow 1:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 72.002 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 13:14:53

End at: 2018-01-02 13:15:23

Below is generated by plot.py at 2018-01-02 14:17:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 71.925 ms

Loss rate: 0.03%

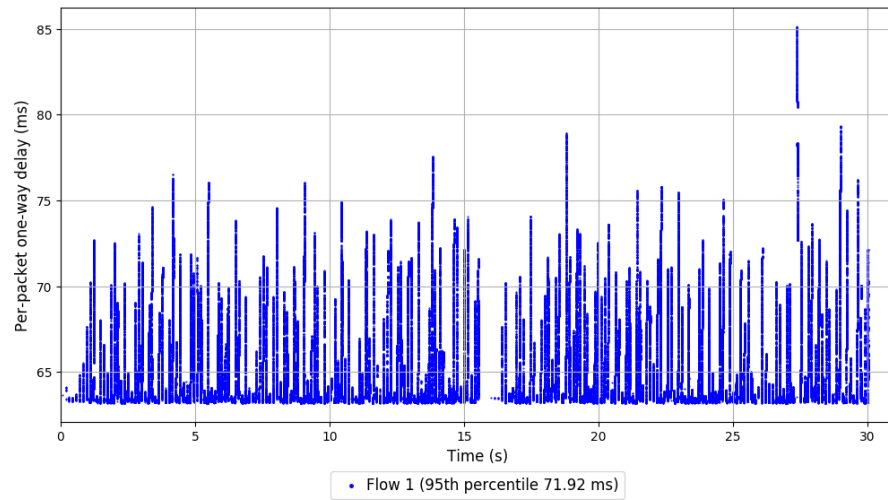
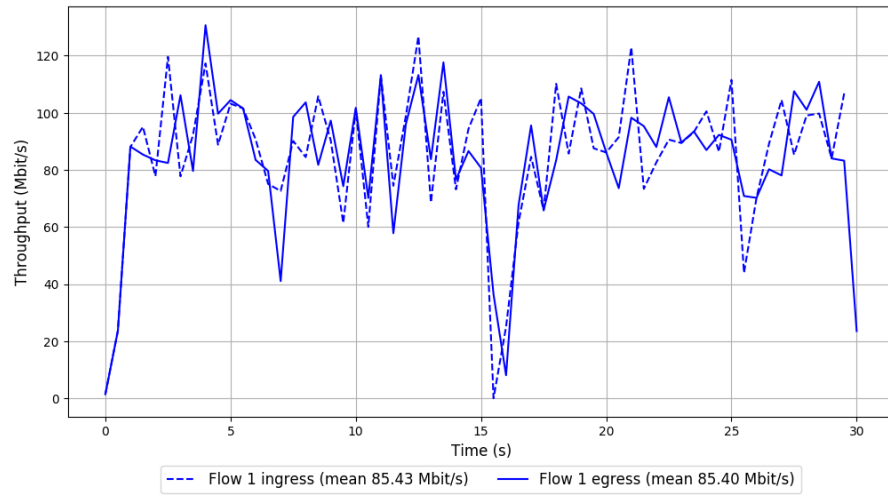
-- Flow 1:

Average throughput: 85.40 Mbit/s

95th percentile per-packet one-way delay: 71.925 ms

Loss rate: 0.03%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 11:36:26

End at: 2018-01-02 11:36:56

Below is generated by plot.py at 2018-01-02 14:17:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 63.852 ms

Loss rate: 0.27%

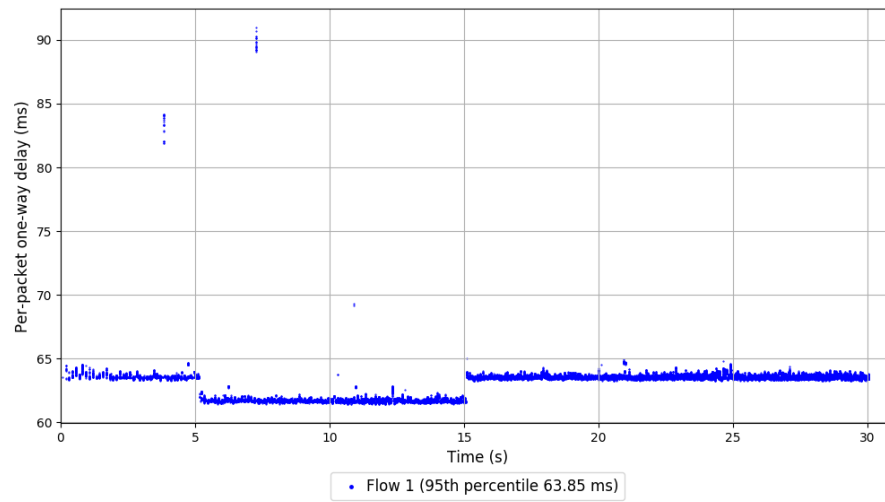
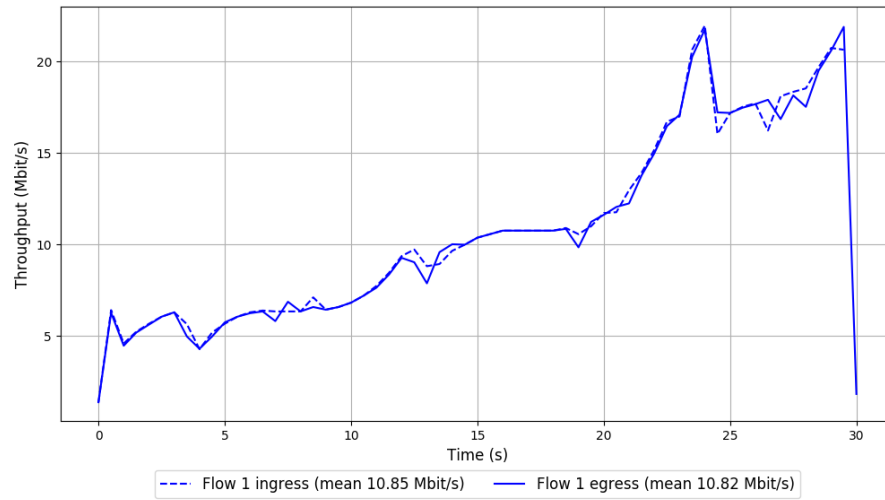
-- Flow 1:

Average throughput: 10.82 Mbit/s

95th percentile per-packet one-way delay: 63.852 ms

Loss rate: 0.27%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 11:48:02

End at: 2018-01-02 11:48:32

Below is generated by plot.py at 2018-01-02 14:18:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.43 Mbit/s

95th percentile per-packet one-way delay: 68.322 ms

Loss rate: 0.01%

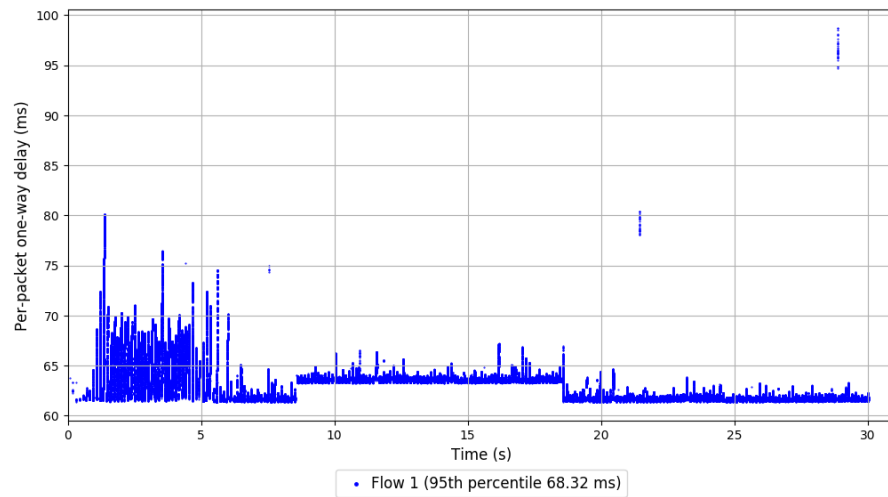
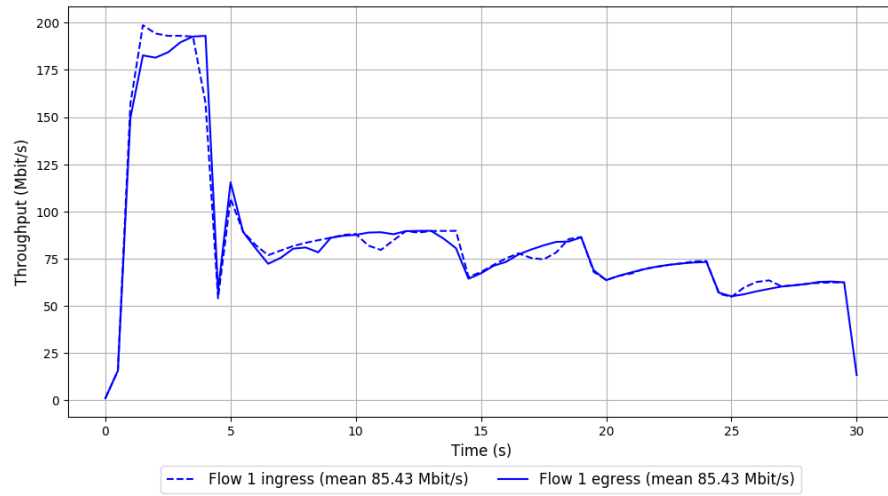
-- Flow 1:

Average throughput: 85.43 Mbit/s

95th percentile per-packet one-way delay: 68.322 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 11:59:17

End at: 2018-01-02 11:59:47

Below is generated by plot.py at 2018-01-02 14:18:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.39 Mbit/s

95th percentile per-packet one-way delay: 64.680 ms

Loss rate: 0.38%

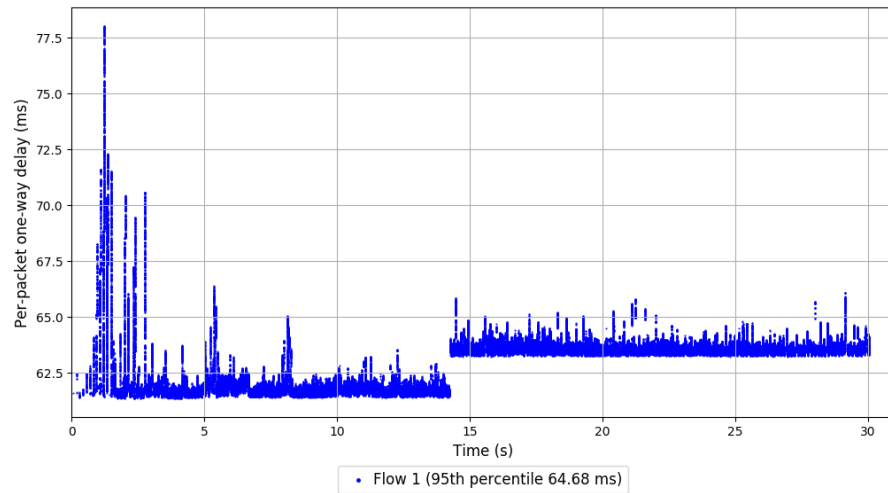
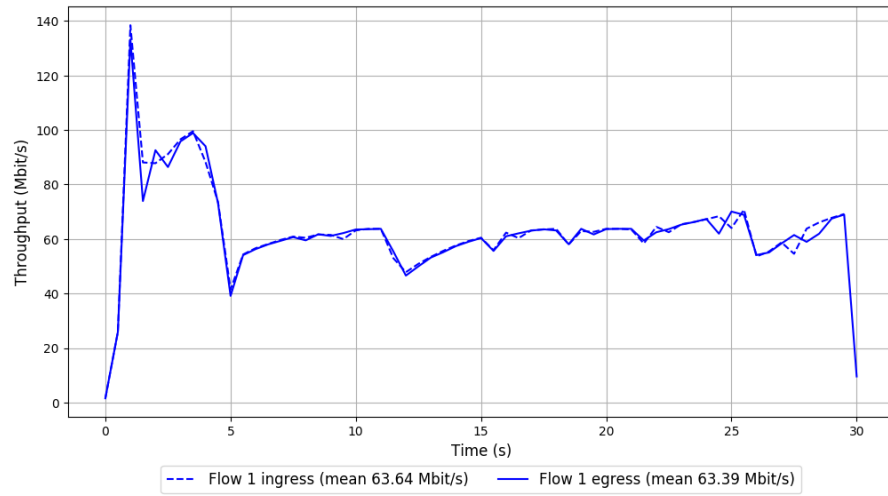
-- Flow 1:

Average throughput: 63.39 Mbit/s

95th percentile per-packet one-way delay: 64.680 ms

Loss rate: 0.38%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 12:11:04

End at: 2018-01-02 12:11:34

Below is generated by plot.py at 2018-01-02 14:18:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.93 Mbit/s

95th percentile per-packet one-way delay: 69.402 ms

Loss rate: 0.47%

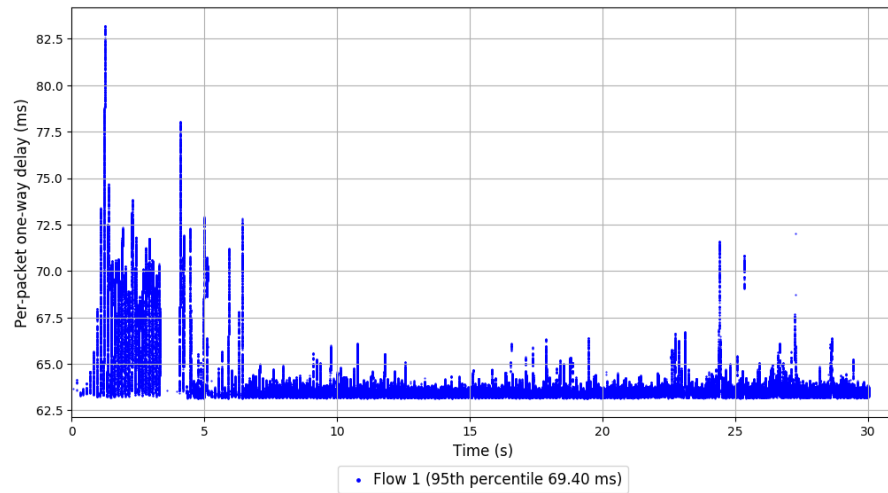
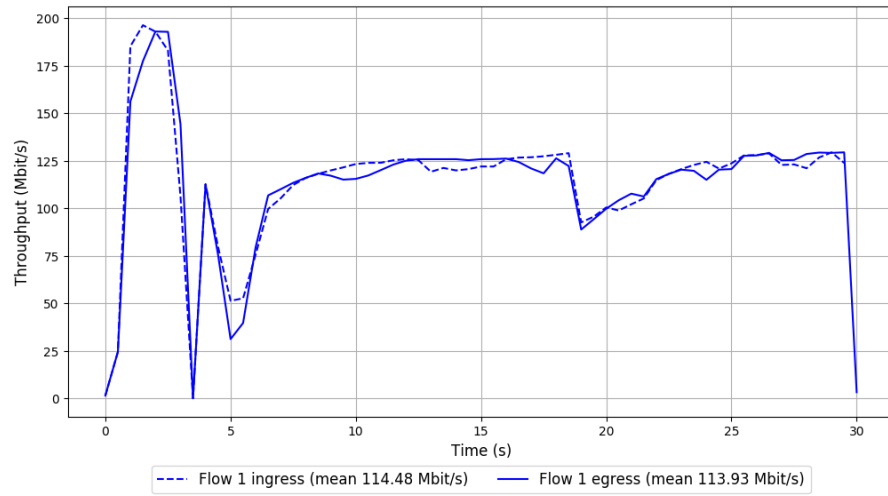
-- Flow 1:

Average throughput: 113.93 Mbit/s

95th percentile per-packet one-way delay: 69.402 ms

Loss rate: 0.47%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 12:22:24

End at: 2018-01-02 12:22:54

Below is generated by plot.py at 2018-01-02 14:19:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.29 Mbit/s

95th percentile per-packet one-way delay: 72.134 ms

Loss rate: 0.00%

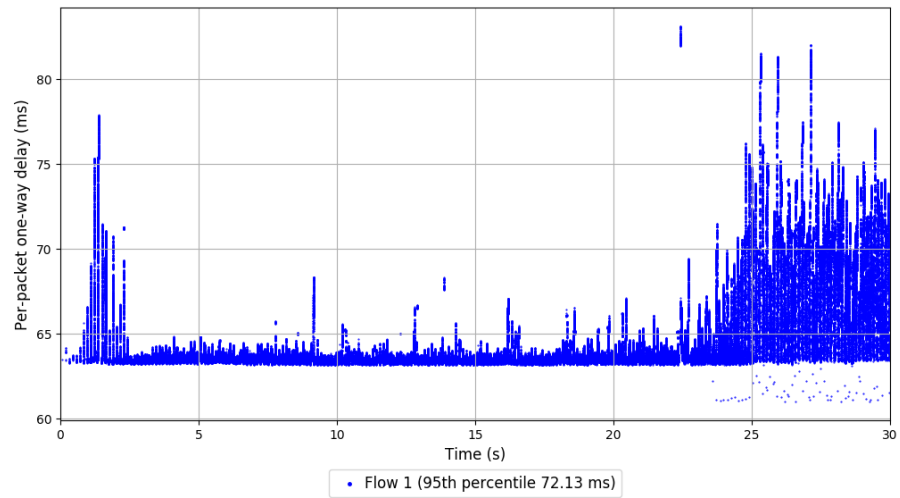
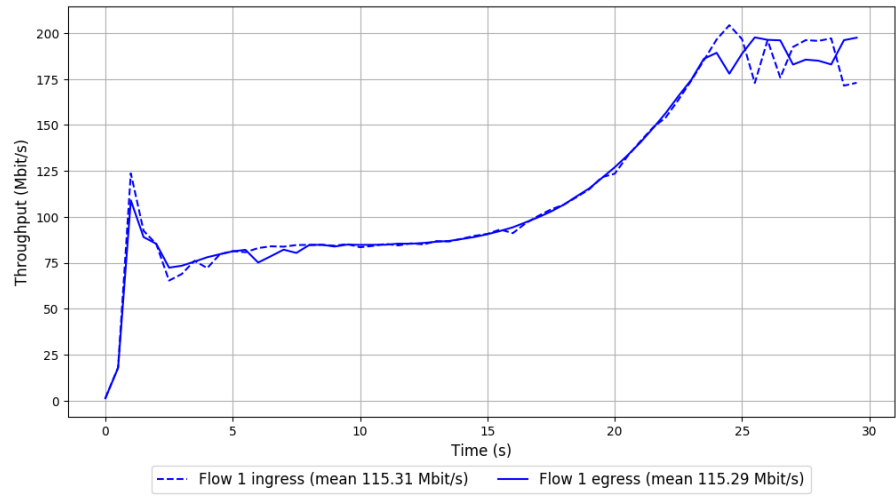
-- Flow 1:

Average throughput: 115.29 Mbit/s

95th percentile per-packet one-way delay: 72.134 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 12:33:41

End at: 2018-01-02 12:34:11

Below is generated by plot.py at 2018-01-02 14:19:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.77 Mbit/s

95th percentile per-packet one-way delay: 67.407 ms

Loss rate: 0.01%

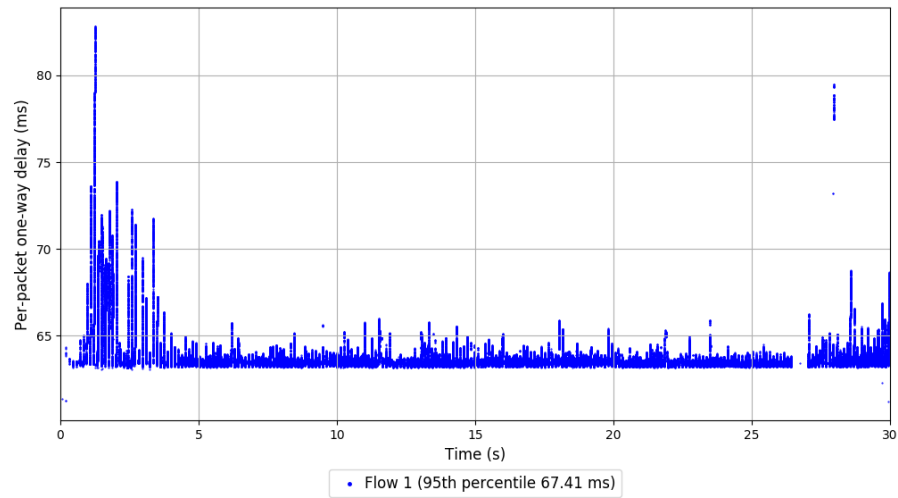
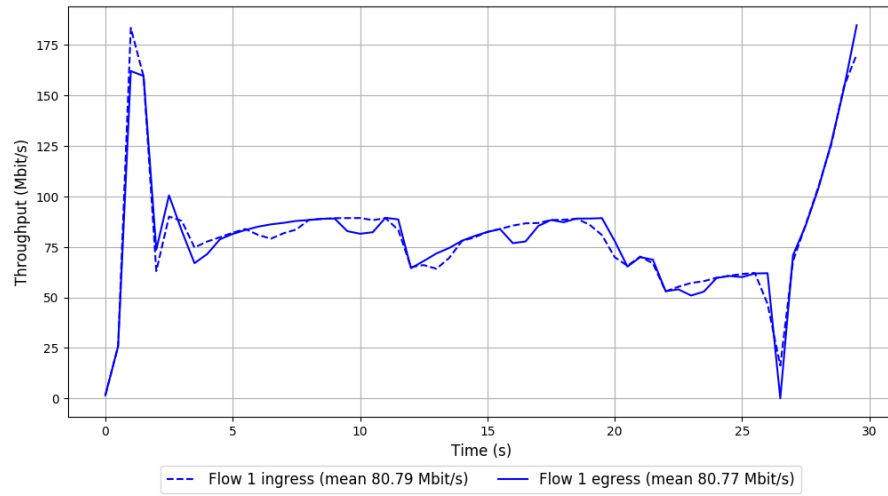
-- Flow 1:

Average throughput: 80.77 Mbit/s

95th percentile per-packet one-way delay: 67.407 ms

Loss rate: 0.01%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 12:45:31

End at: 2018-01-02 12:46:01

Below is generated by plot.py at 2018-01-02 14:19:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.00 Mbit/s

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

Loss rate: 0.02%

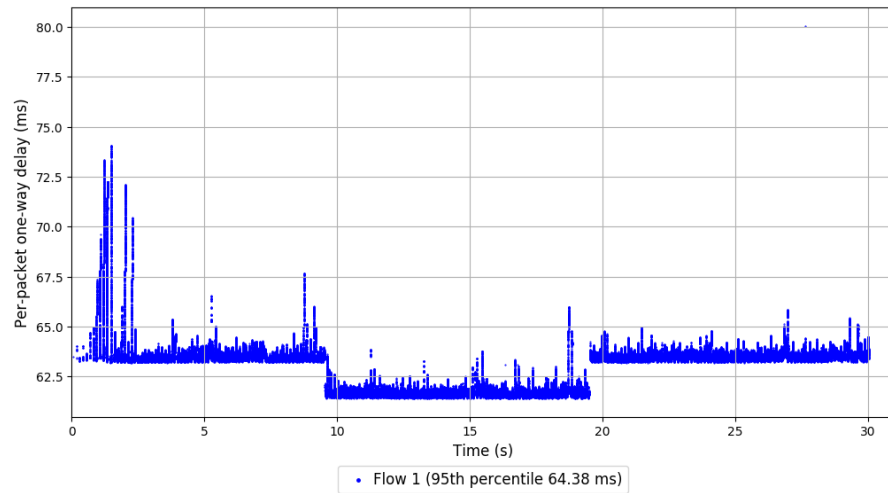
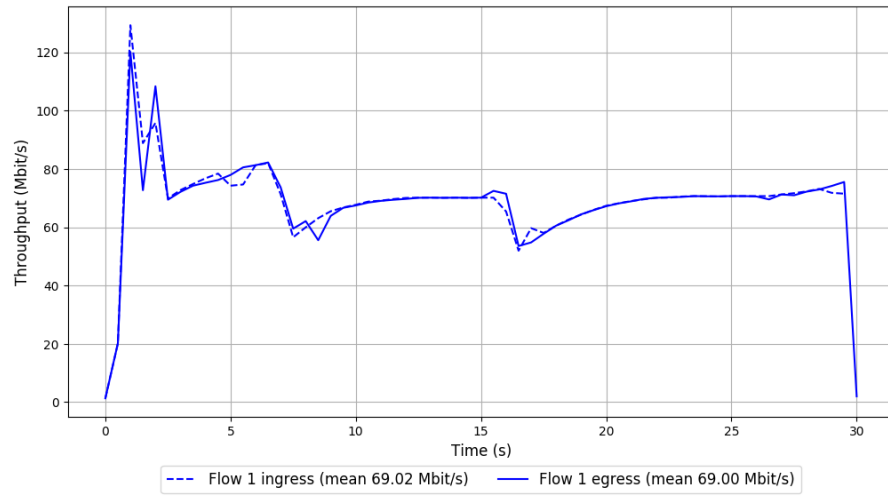
-- Flow 1:

Average throughput: 69.00 Mbit/s

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

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-02 12:56:42

End at: 2018-01-02 12:57:12

Below is generated by plot.py at 2018-01-02 14:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.39 Mbit/s

95th percentile per-packet one-way delay: 70.516 ms

Loss rate: 0.01%

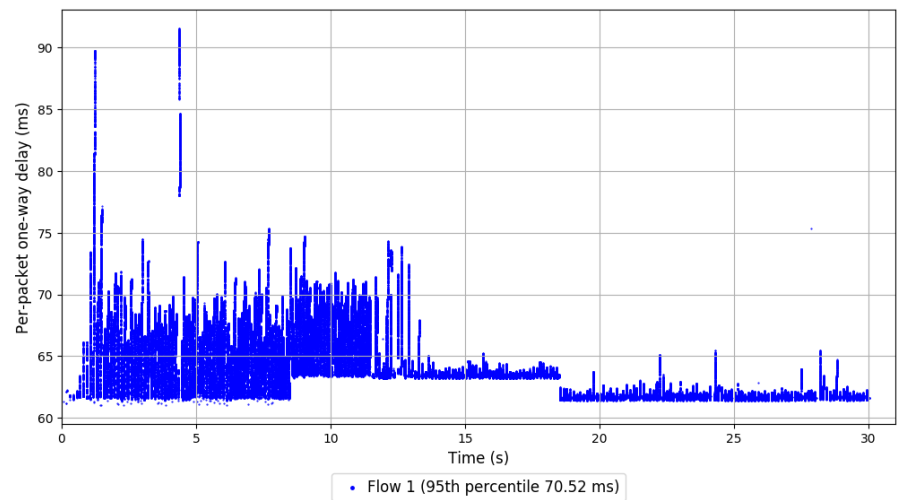
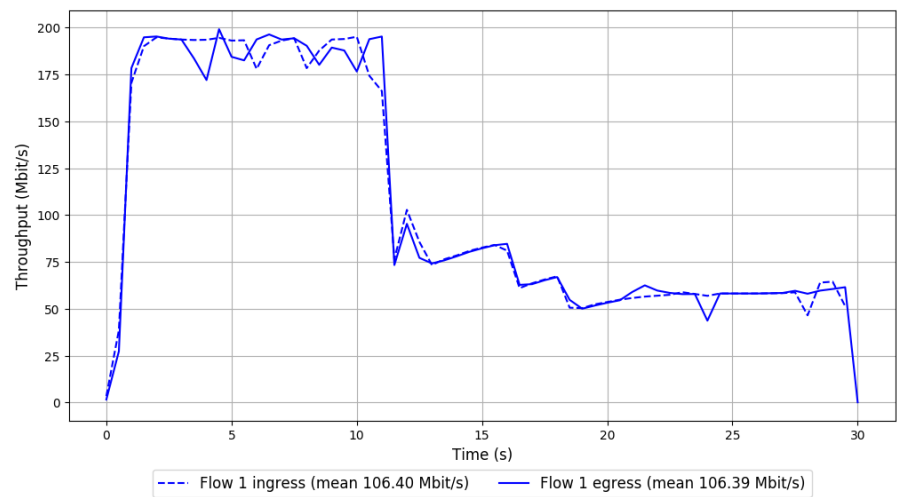
-- Flow 1:

Average throughput: 106.39 Mbit/s

95th percentile per-packet one-way delay: 70.516 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 13:07:56

End at: 2018-01-02 13:08:26

Below is generated by plot.py at 2018-01-02 14:19:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 65.221 ms

Loss rate: 0.05%

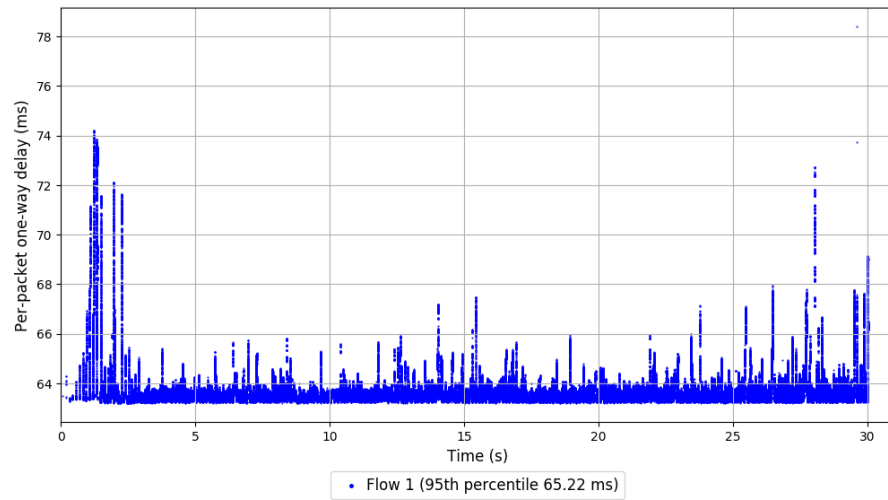
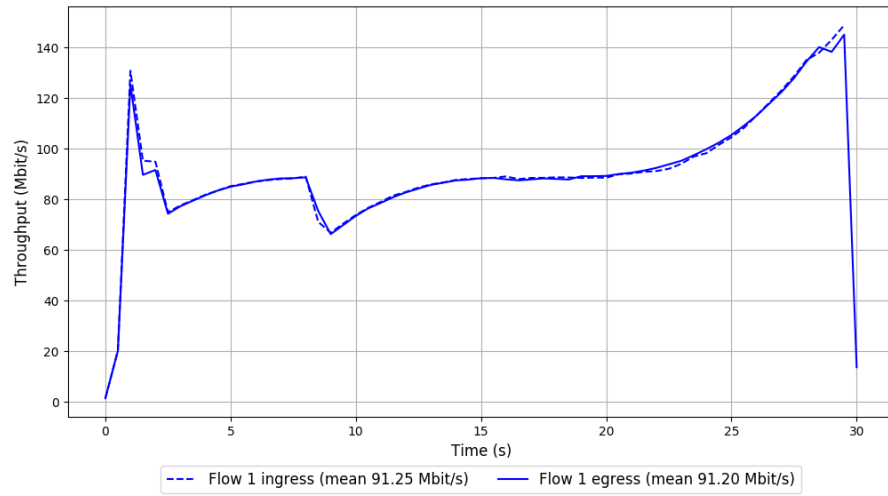
-- Flow 1:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 65.221 ms

Loss rate: 0.05%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 13:19:28

End at: 2018-01-02 13:19:58

Below is generated by plot.py at 2018-01-02 14:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.03 Mbit/s

95th percentile per-packet one-way delay: 72.715 ms

Loss rate: 0.05%

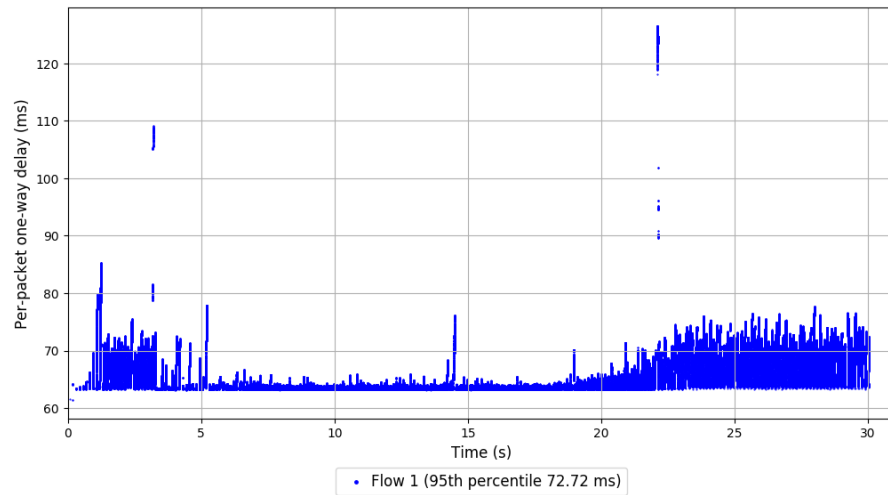
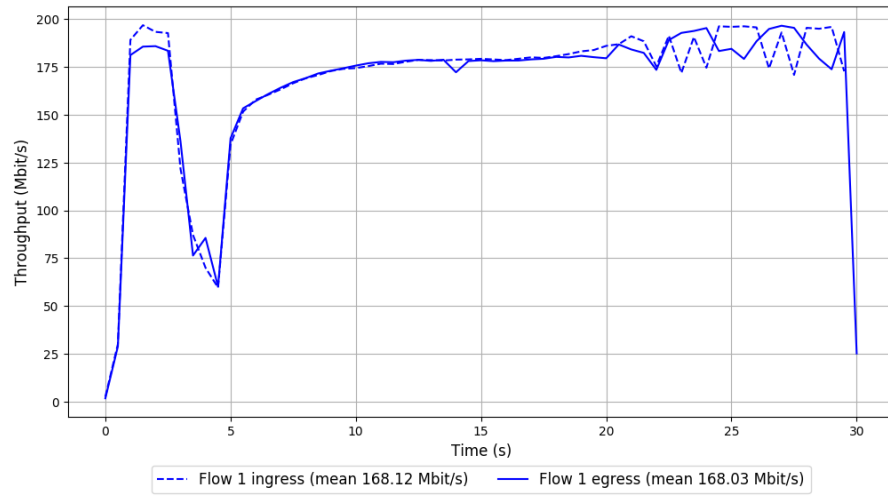
-- Flow 1:

Average throughput: 168.03 Mbit/s

95th percentile per-packet one-way delay: 72.715 ms

Loss rate: 0.05%

Run 10: Report of TCP Cubic — Data Link

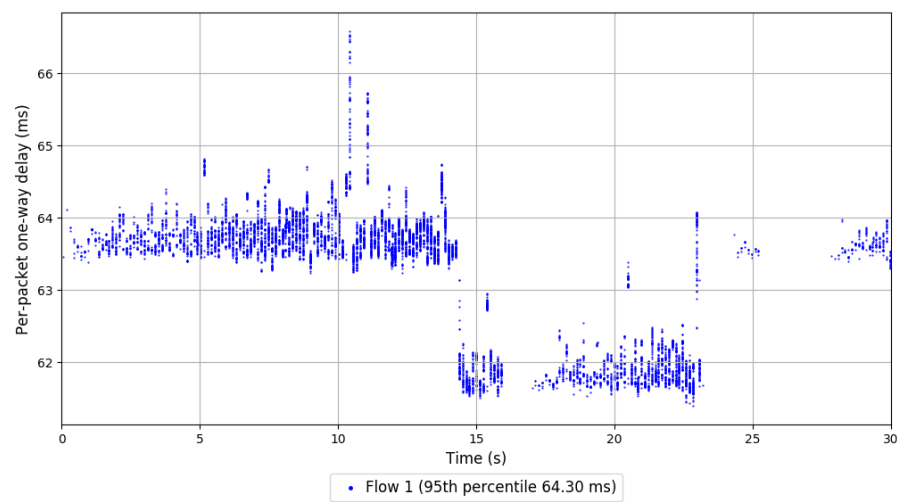
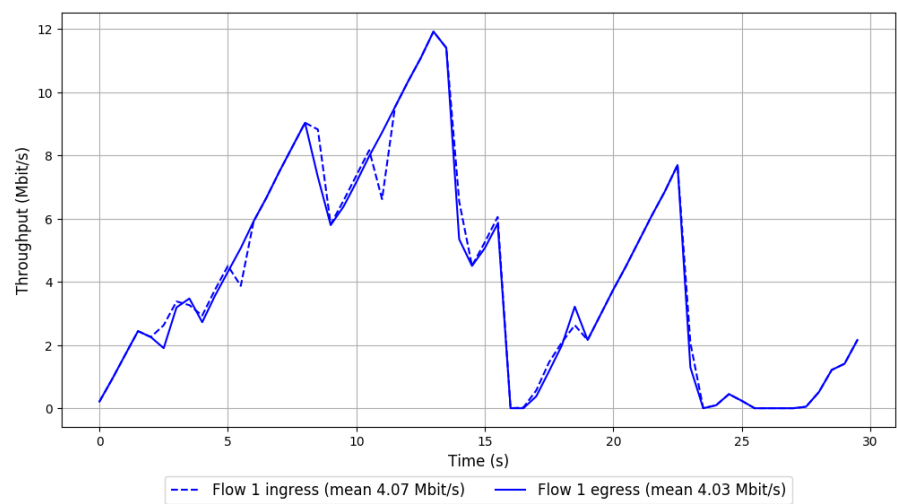


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 11:38:27
End at: 2018-01-02 11:38:57

# Below is generated by plot.py at 2018-01-02 14:20:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 64.302 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 64.302 ms
Loss rate: 1.01%
```


Run 1: Report of LEDBAT — Data Link

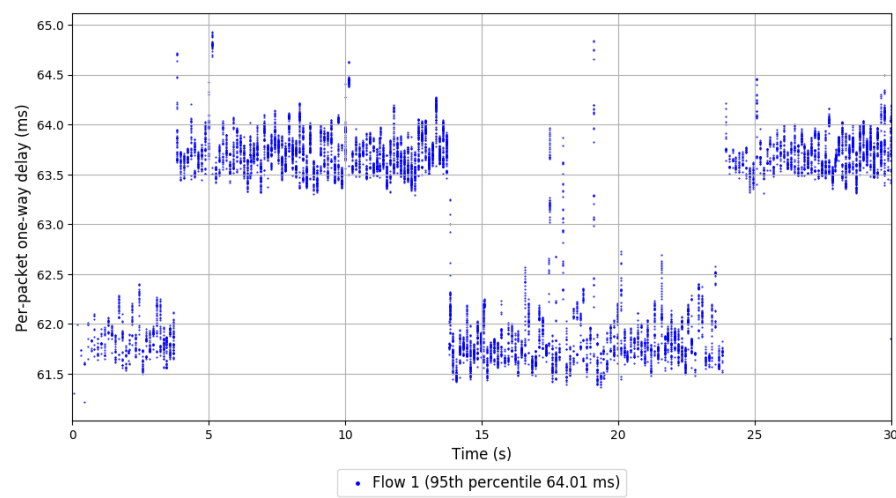
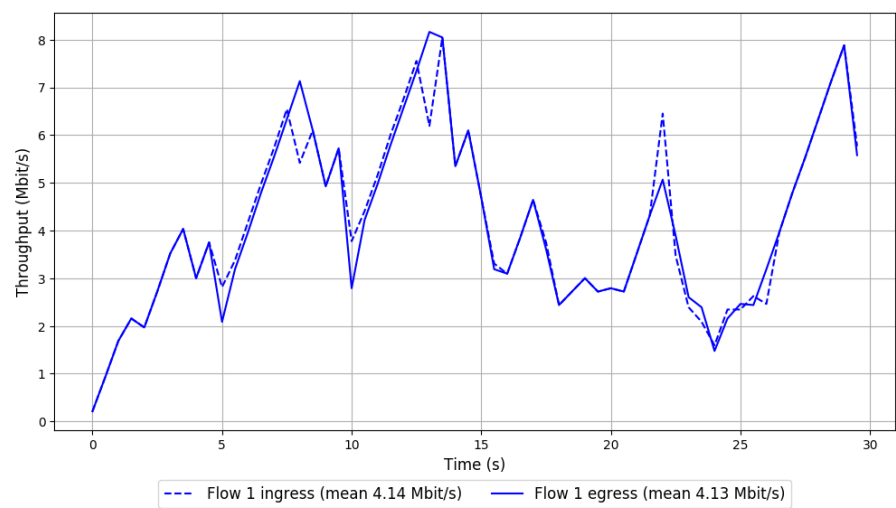


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-02 11:50:07
End at: 2018-01-02 11:50:37

# Below is generated by plot.py at 2018-01-02 14:20:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 64.011 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 64.011 ms
Loss rate: 0.22%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-02 12:01:21

End at: 2018-01-02 12:01:51

Below is generated by plot.py at 2018-01-02 14:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.35 Mbit/s

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

Loss rate: 0.01%

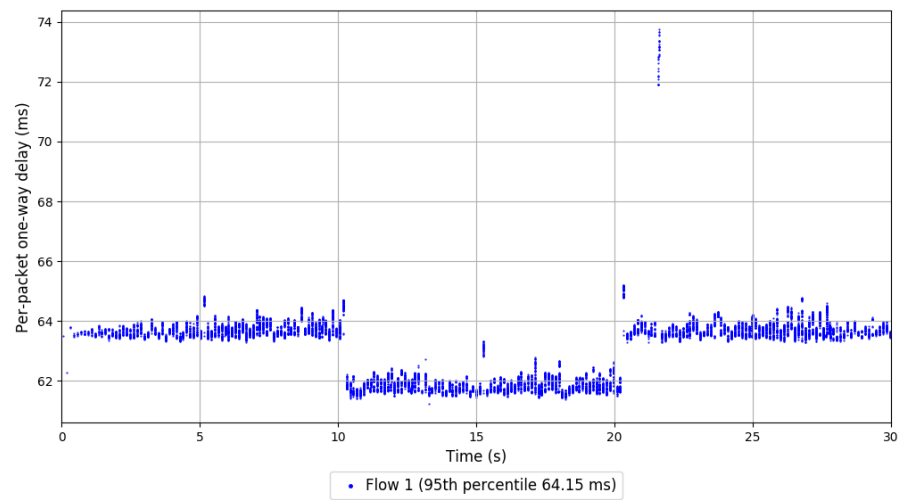
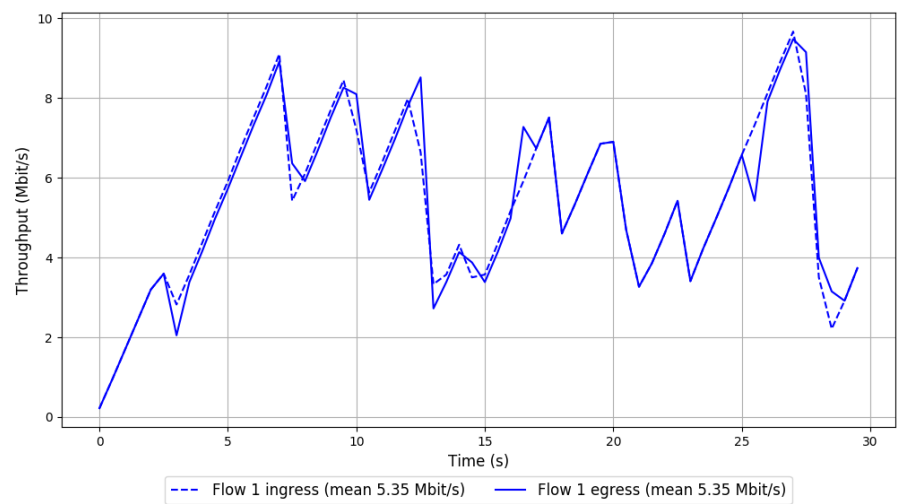
-- Flow 1:

Average throughput: 5.35 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

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

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

Below is generated by plot.py at 2018-01-02 14:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 64.189 ms

Loss rate: 0.01%

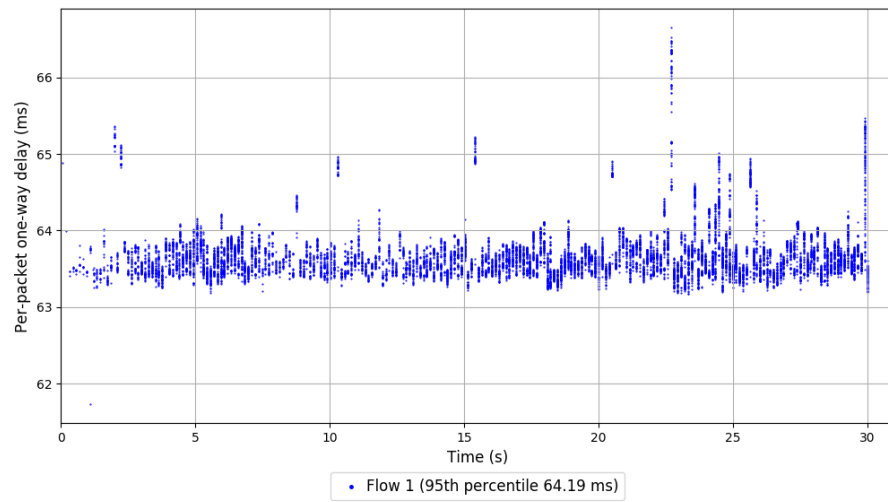
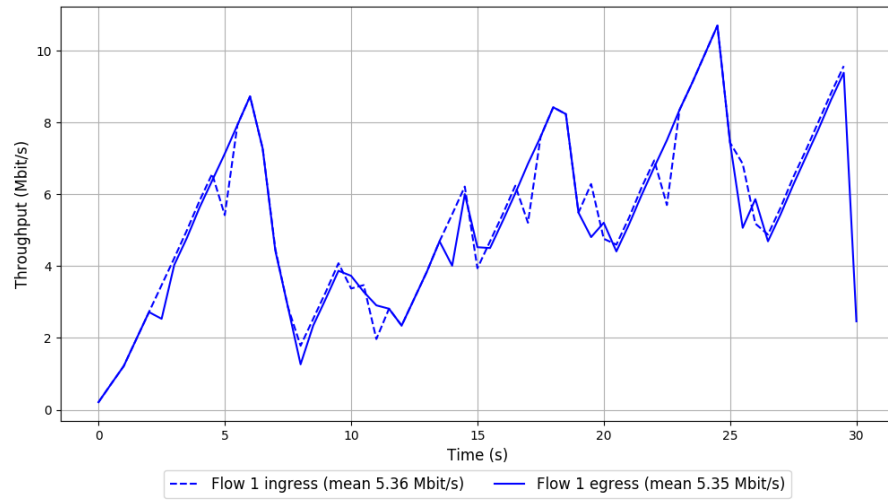
-- Flow 1:

Average throughput: 5.35 Mbit/s

95th percentile per-packet one-way delay: 64.189 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-02 12:24:30

End at: 2018-01-02 12:25:00

Below is generated by plot.py at 2018-01-02 14:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.052 ms

Loss rate: 0.01%

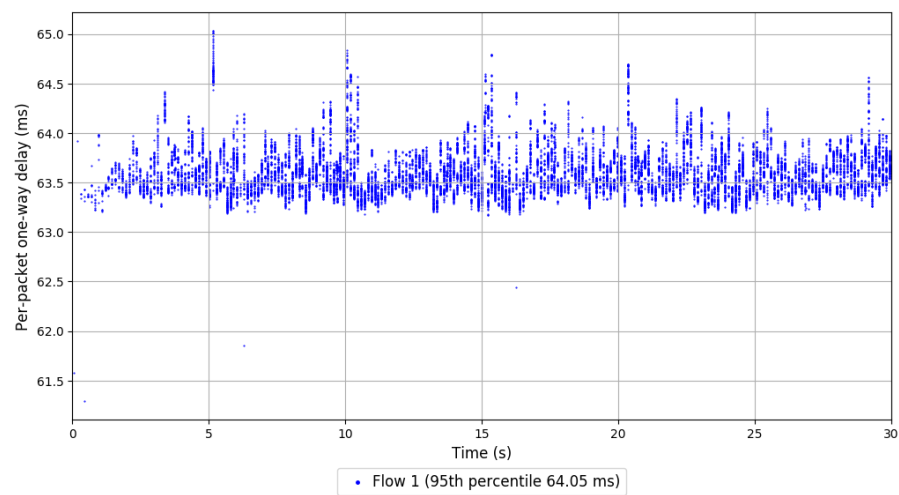
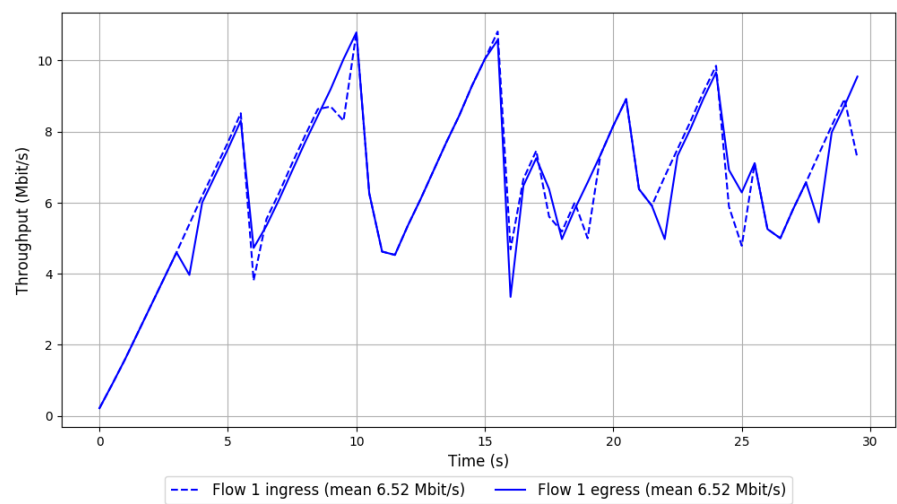
-- Flow 1:

Average throughput: 6.52 Mbit/s

95th percentile per-packet one-way delay: 64.052 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 12:35:44

End at: 2018-01-02 12:36:14

Below is generated by plot.py at 2018-01-02 14:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 64.263 ms

Loss rate: 0.05%

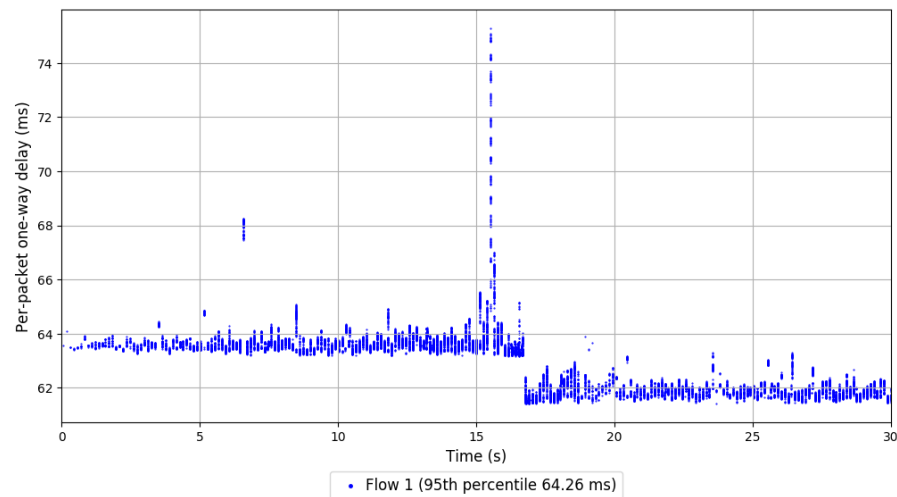
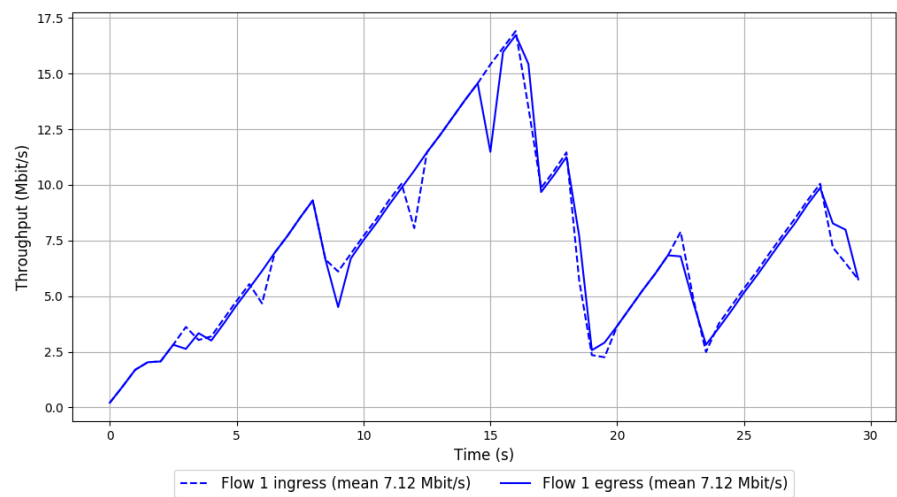
-- Flow 1:

Average throughput: 7.12 Mbit/s

95th percentile per-packet one-way delay: 64.263 ms

Loss rate: 0.05%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 12:47:35

End at: 2018-01-02 12:48:05

Below is generated by plot.py at 2018-01-02 14:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 64.280 ms

Loss rate: 0.01%

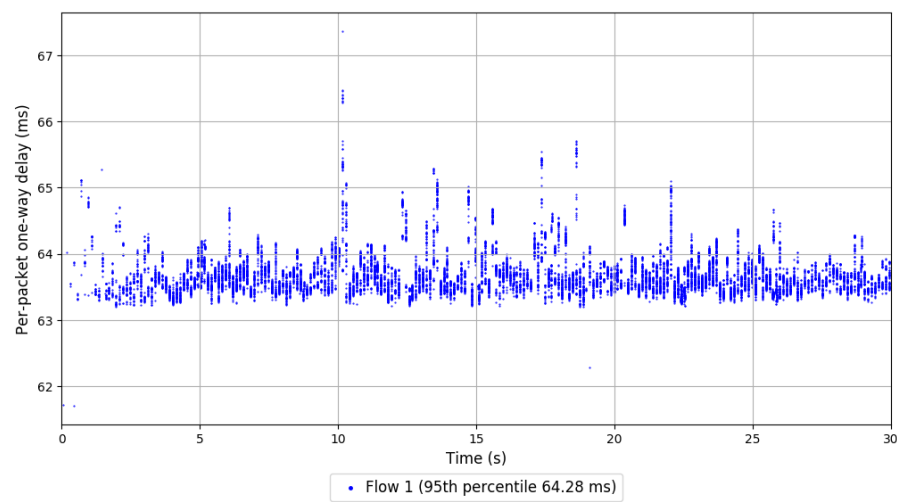
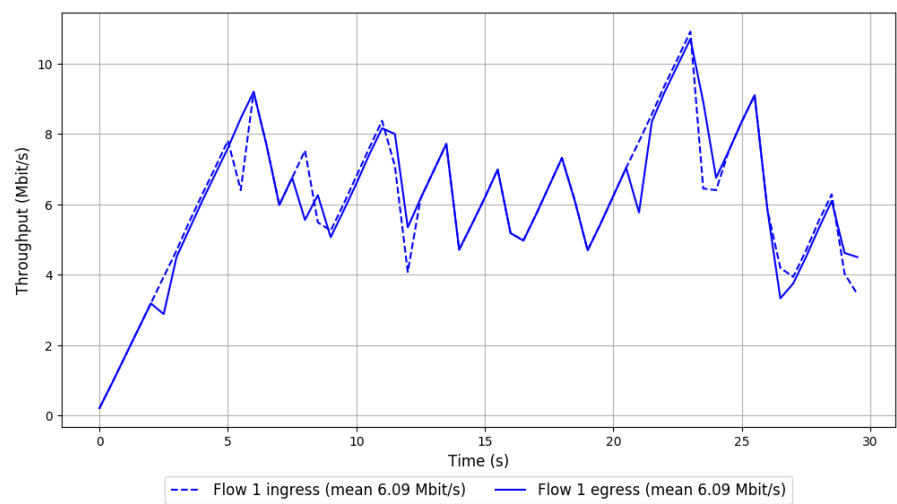
-- Flow 1:

Average throughput: 6.09 Mbit/s

95th percentile per-packet one-way delay: 64.280 ms

Loss rate: 0.01%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 12:58:48

End at: 2018-01-02 12:59:18

Below is generated by plot.py at 2018-01-02 14:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 64.475 ms

Loss rate: 0.00%

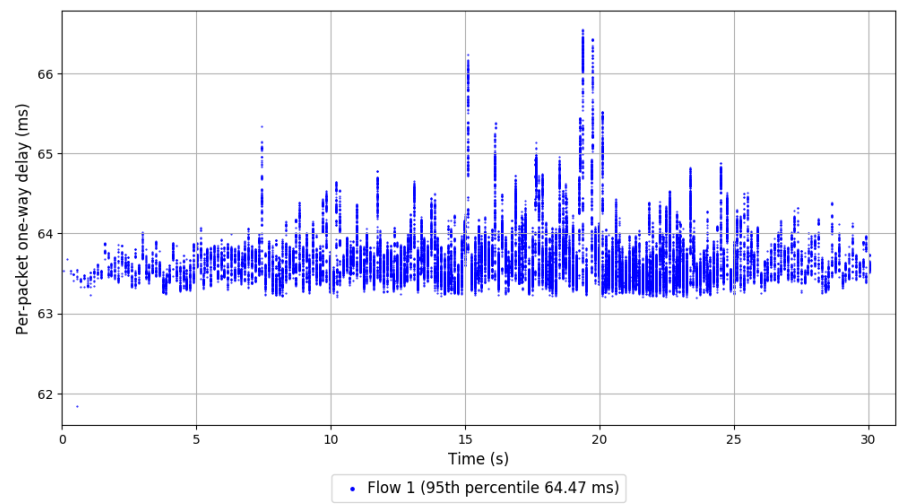
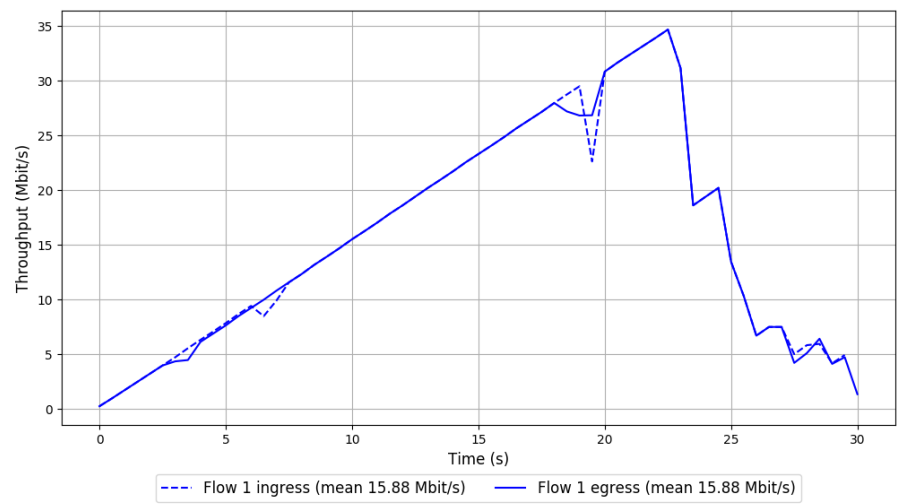
-- Flow 1:

Average throughput: 15.88 Mbit/s

95th percentile per-packet one-way delay: 64.475 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

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

End at: 2018-01-02 13:10:31

Below is generated by plot.py at 2018-01-02 14:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 64.233 ms

Loss rate: 0.01%

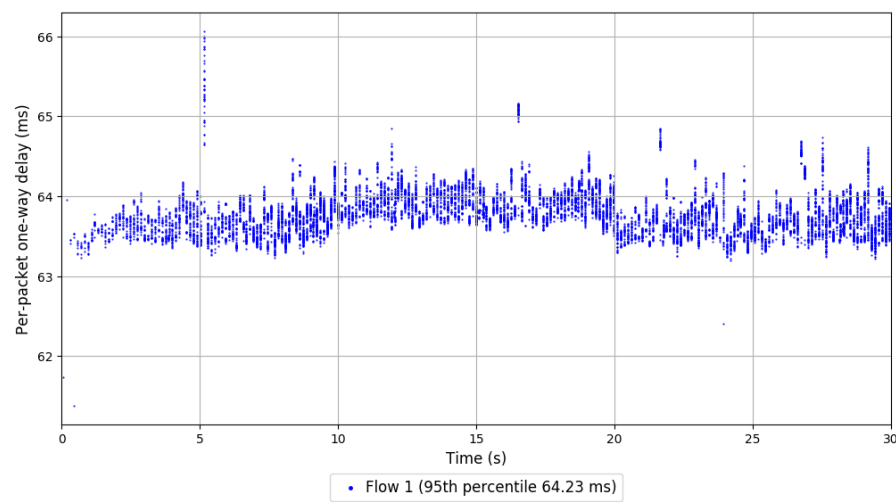
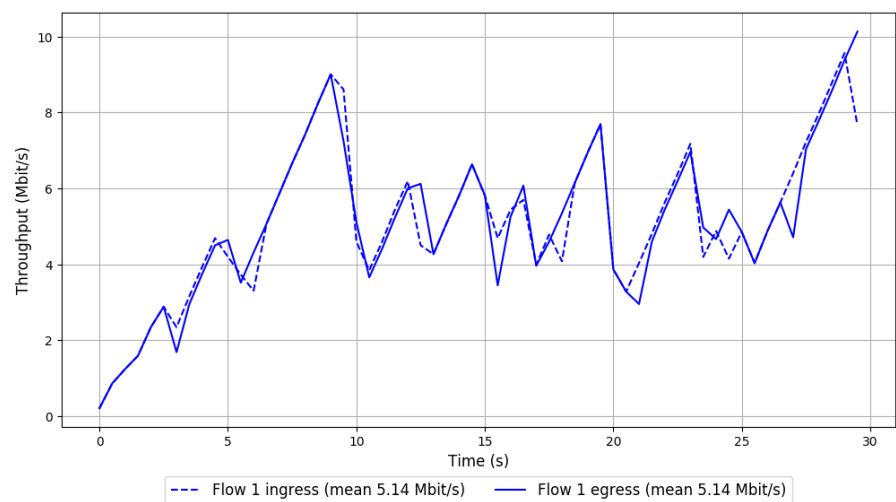
-- Flow 1:

Average throughput: 5.14 Mbit/s

95th percentile per-packet one-way delay: 64.233 ms

Loss rate: 0.01%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-02 13:21:37

End at: 2018-01-02 13:22:07

Below is generated by plot.py at 2018-01-02 14:20:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 63.953 ms

Loss rate: 0.08%

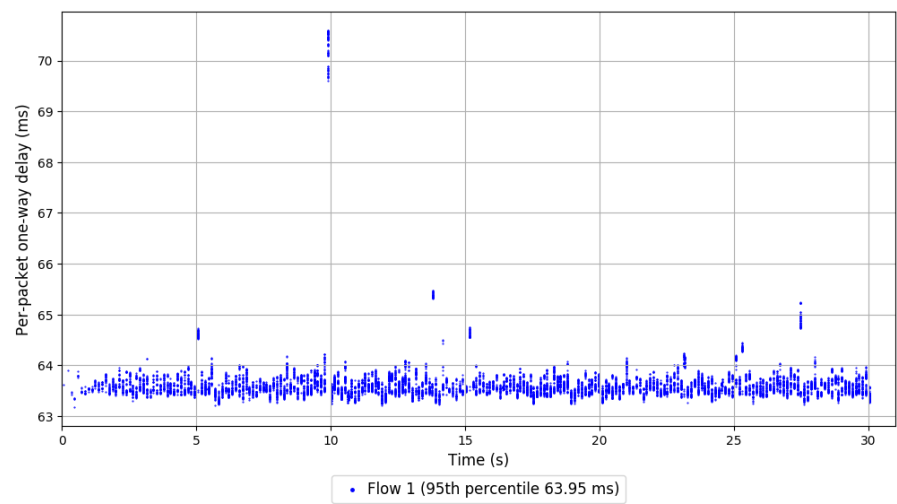
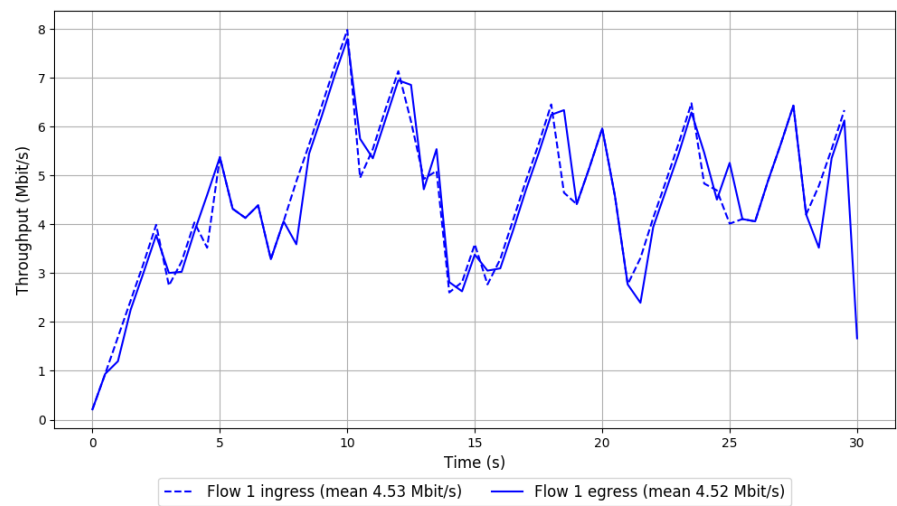
-- Flow 1:

Average throughput: 4.52 Mbit/s

95th percentile per-packet one-way delay: 63.953 ms

Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link

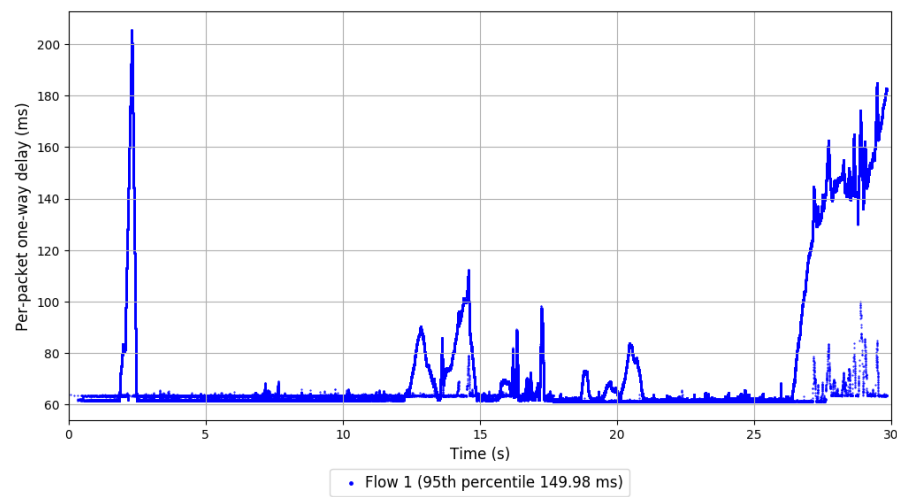
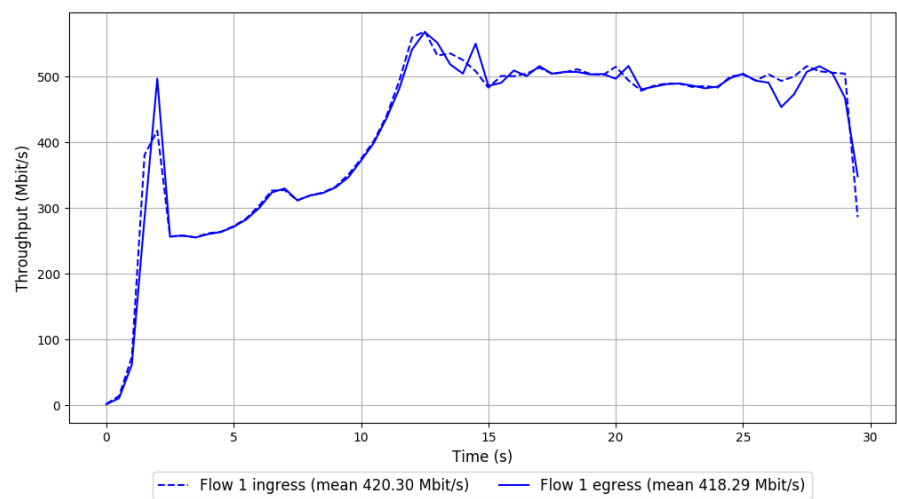


```
Run 1: Statistics of PCC

Start at: 2018-01-02 11:41:53
End at: 2018-01-02 11:42:23

# Below is generated by plot.py at 2018-01-02 14:26:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 418.29 Mbit/s
95th percentile per-packet one-way delay: 149.979 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 418.29 Mbit/s
95th percentile per-packet one-way delay: 149.979 ms
Loss rate: 0.48%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-02 11:53:04

End at: 2018-01-02 11:53:34

Below is generated by plot.py at 2018-01-02 14:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.17 Mbit/s

95th percentile per-packet one-way delay: 208.258 ms

Loss rate: 0.66%

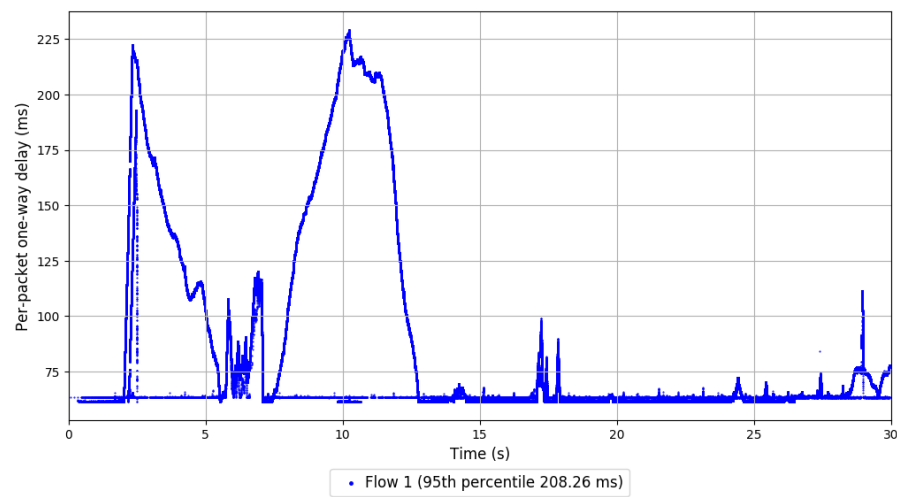
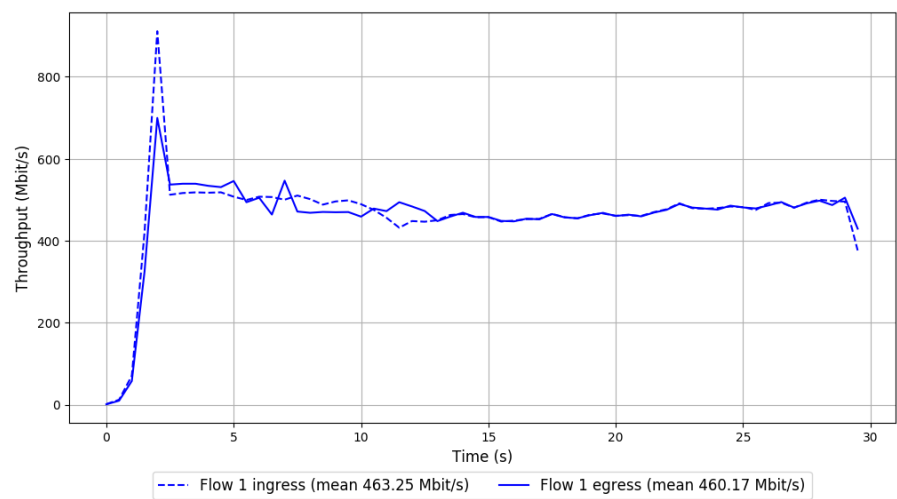
-- Flow 1:

Average throughput: 460.17 Mbit/s

95th percentile per-packet one-way delay: 208.258 ms

Loss rate: 0.66%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 12:04:52

End at: 2018-01-02 12:05:22

Below is generated by plot.py at 2018-01-02 14:27:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.80 Mbit/s

95th percentile per-packet one-way delay: 153.006 ms

Loss rate: 0.74%

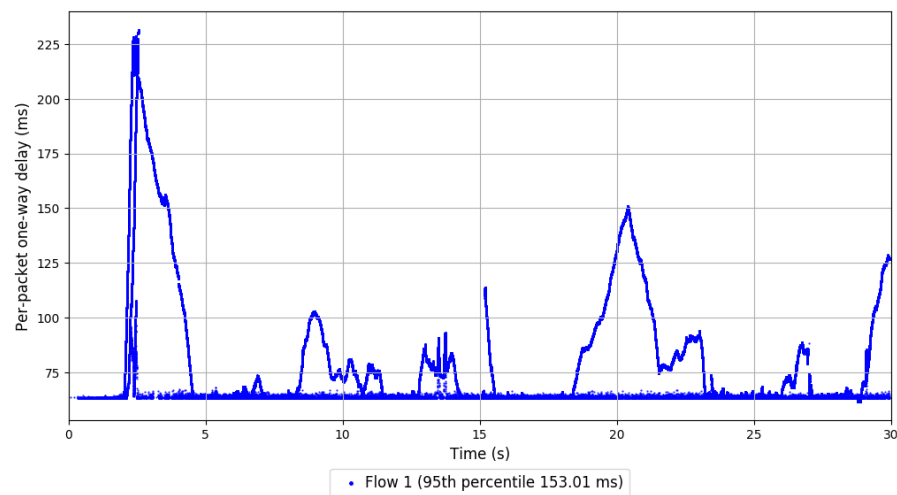
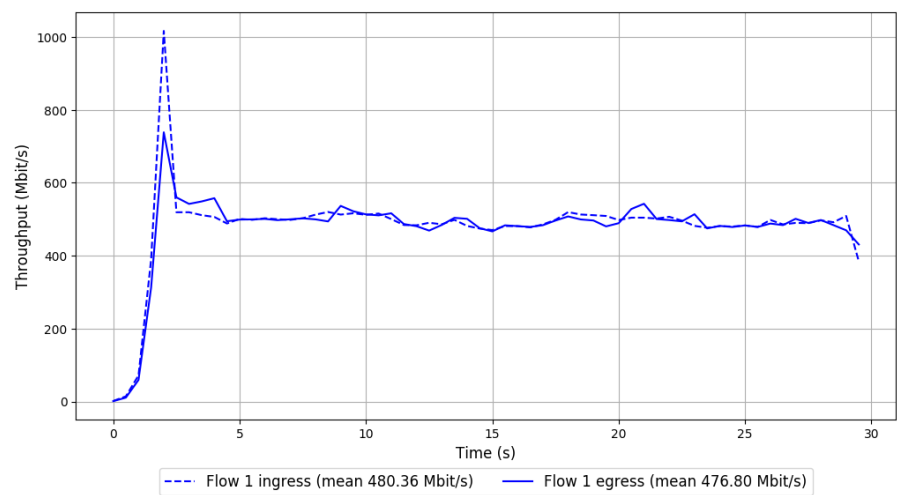
-- Flow 1:

Average throughput: 476.80 Mbit/s

95th percentile per-packet one-way delay: 153.006 ms

Loss rate: 0.74%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 12:16:06

End at: 2018-01-02 12:16:36

Below is generated by plot.py at 2018-01-02 14:27:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.18 Mbit/s

95th percentile per-packet one-way delay: 180.781 ms

Loss rate: 0.48%

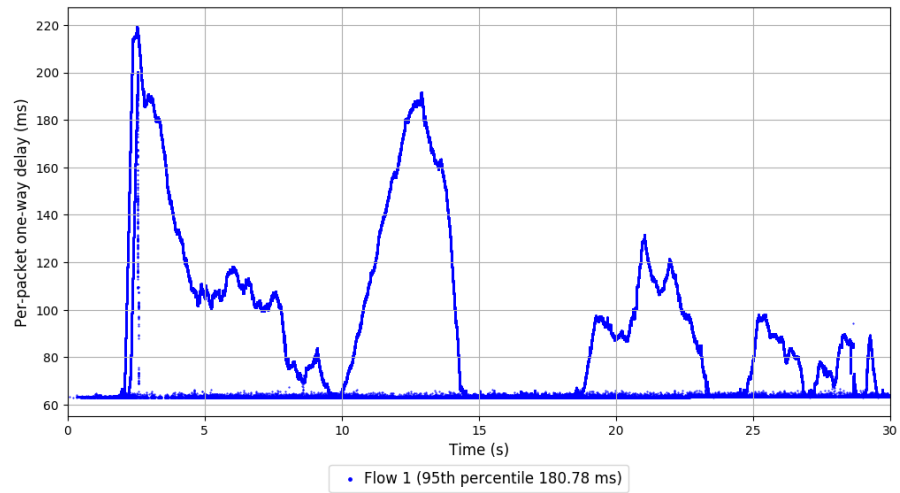
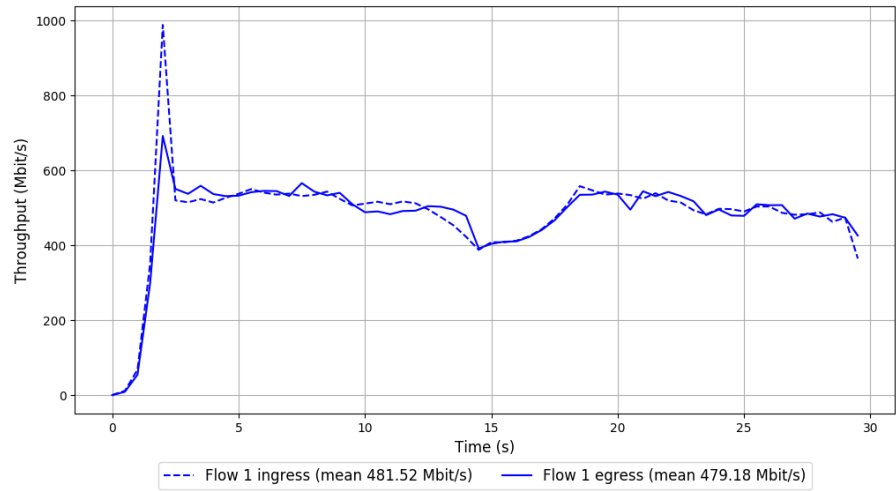
-- Flow 1:

Average throughput: 479.18 Mbit/s

95th percentile per-packet one-way delay: 180.781 ms

Loss rate: 0.48%

Run 4: Report of PCC — Data Link

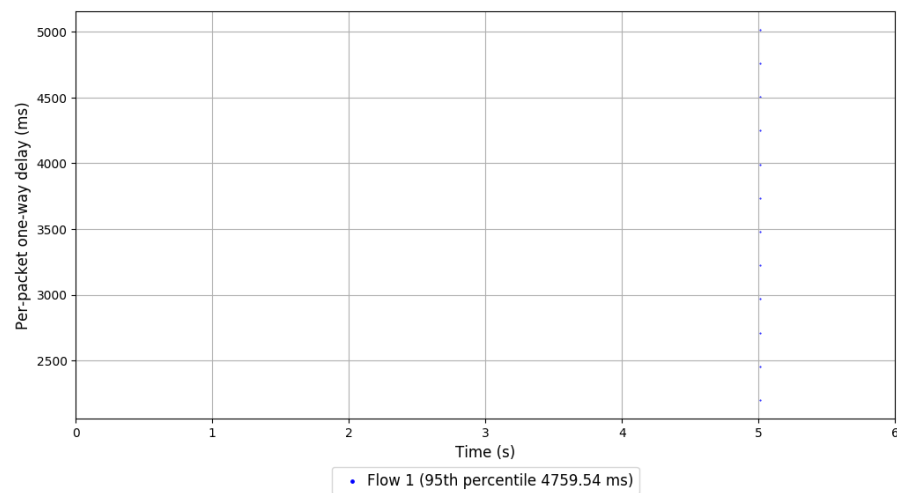
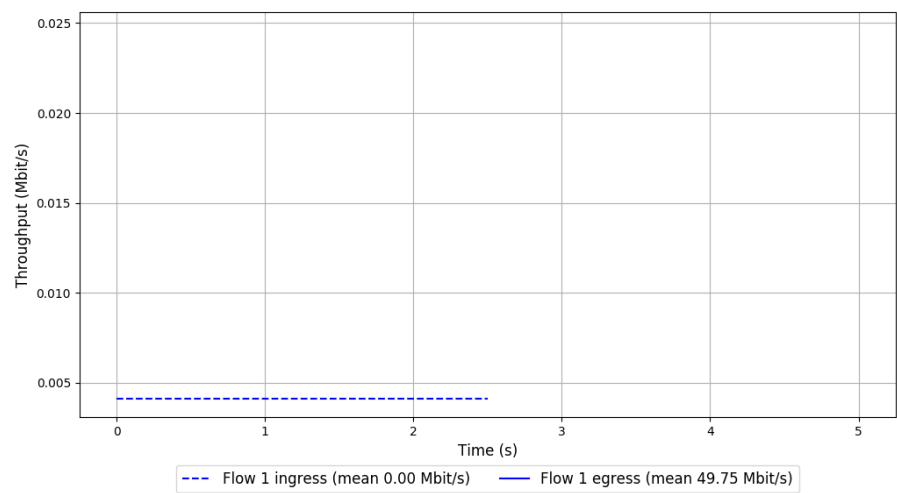


Run 5: Statistics of PCC

Start at: 2018-01-02 12:27:50

End at: 2018-01-02 12:28:20

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 12:39:13

End at: 2018-01-02 12:39:44

Below is generated by plot.py at 2018-01-02 14:27:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 466.30 Mbit/s

95th percentile per-packet one-way delay: 201.555 ms

Loss rate: 0.73%

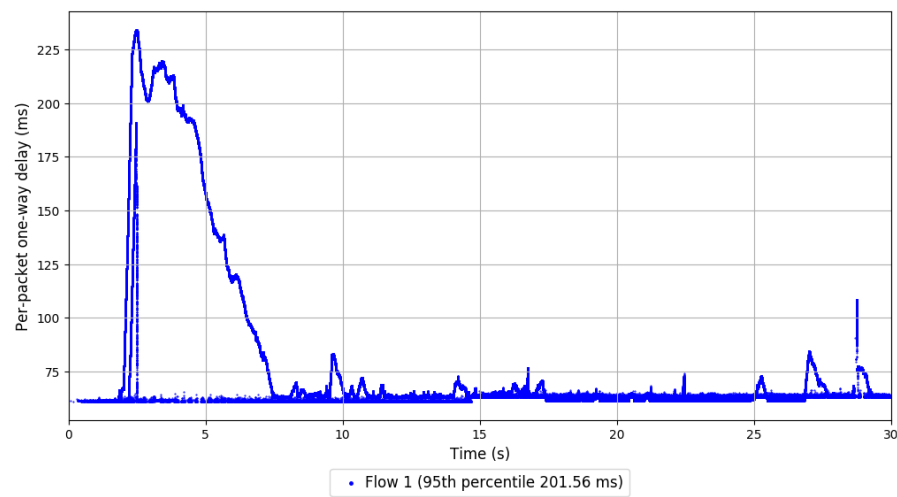
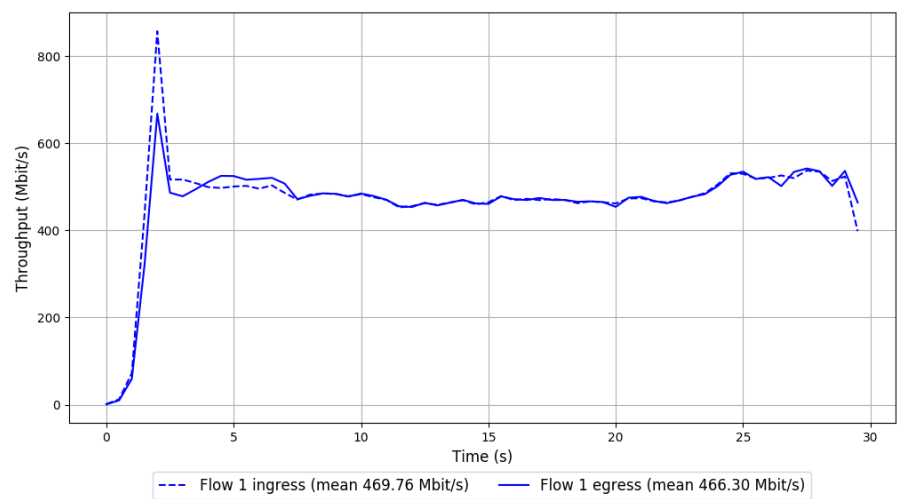
-- Flow 1:

Average throughput: 466.30 Mbit/s

95th percentile per-packet one-way delay: 201.555 ms

Loss rate: 0.73%

Run 6: Report of PCC — Data Link

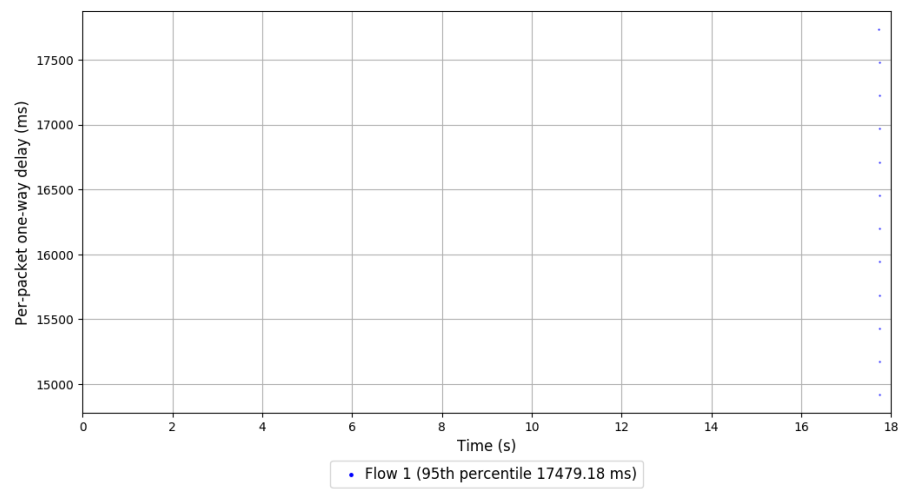
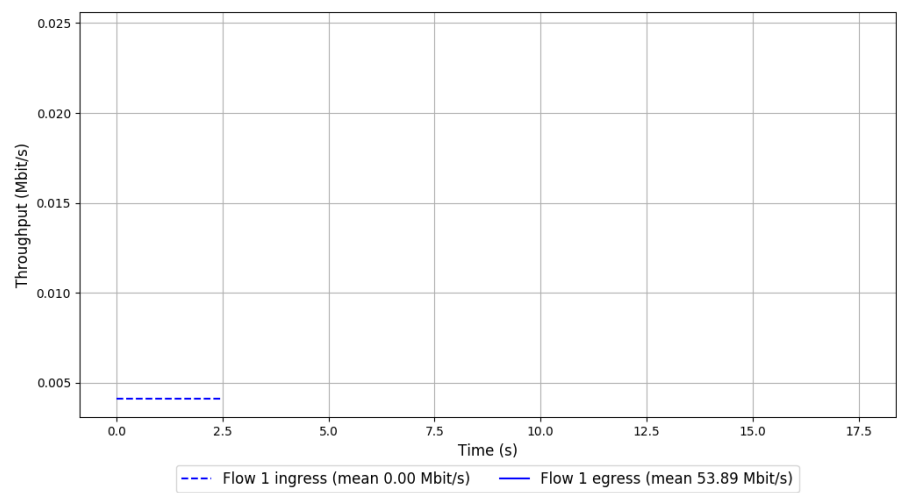


Run 7: Statistics of PCC

Start at: 2018-01-02 12:50:52

End at: 2018-01-02 12:51:22

Run 7: Report of PCC — Data Link

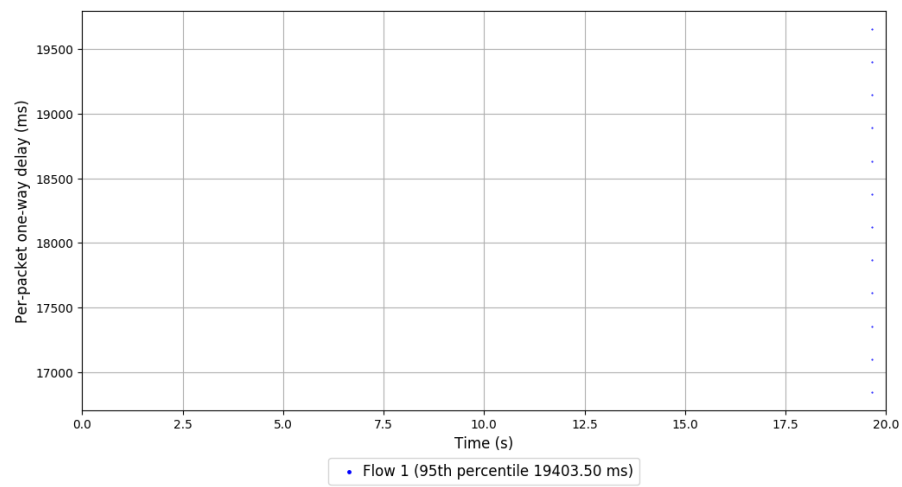
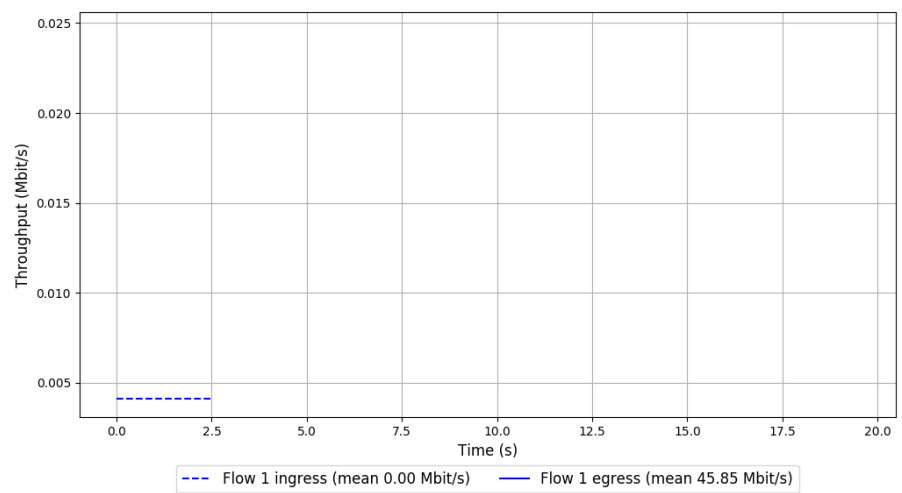


Run 8: Statistics of PCC

Start at: 2018-01-02 13:01:56

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

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 13:13:05

End at: 2018-01-02 13:13:35

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 484.61 Mbit/s

95th percentile per-packet one-way delay: 143.311 ms

Loss rate: 0.44%

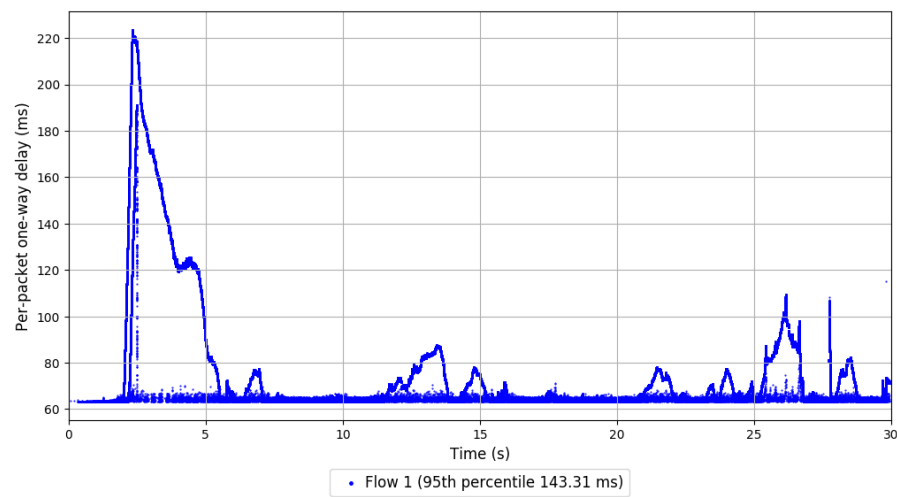
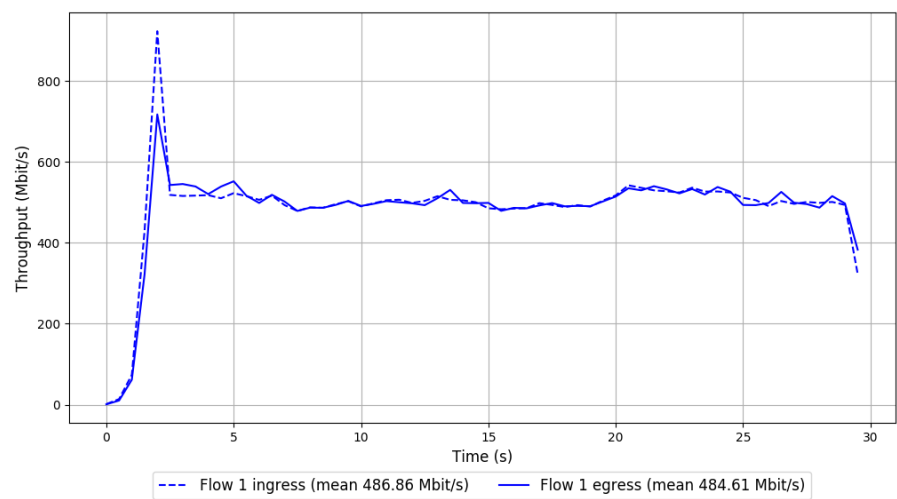
-- Flow 1:

Average throughput: 484.61 Mbit/s

95th percentile per-packet one-way delay: 143.311 ms

Loss rate: 0.44%

Run 9: Report of PCC — Data Link

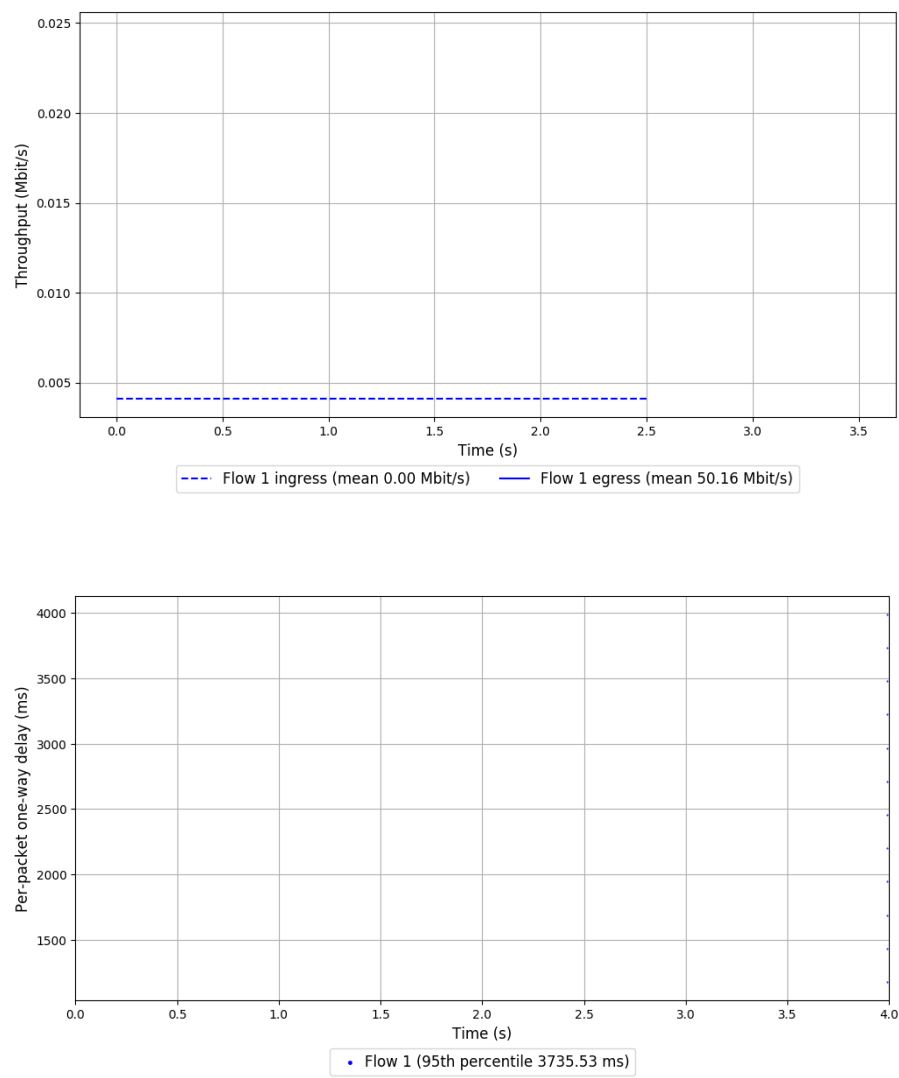


Run 10: Statistics of PCC

Start at: 2018-01-02 13:24:51

End at: 2018-01-02 13:25:21

Run 10: Report of PCC — Data Link

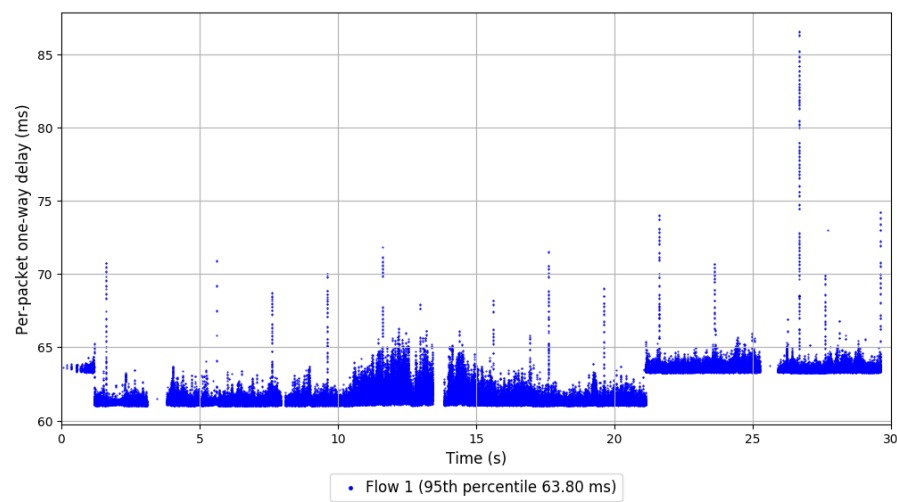
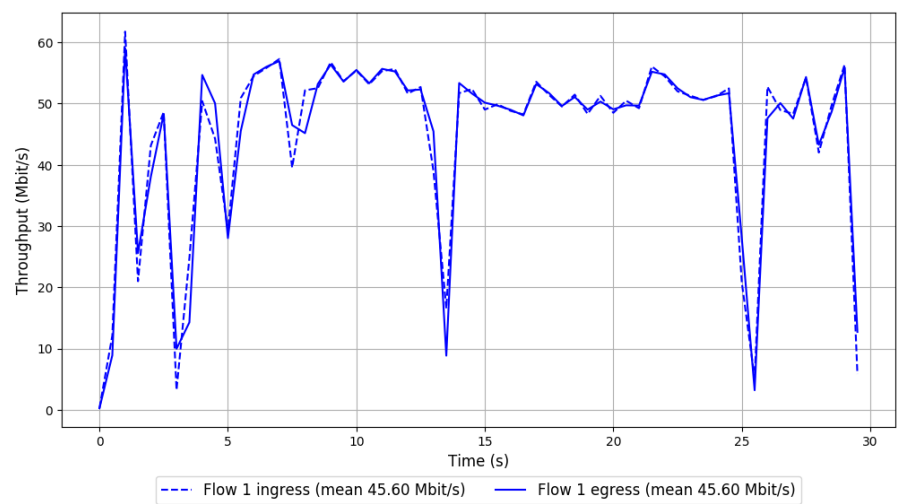


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 11:35:07
End at: 2018-01-02 11:35:37

# Below is generated by plot.py at 2018-01-02 14:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.60 Mbit/s
95th percentile per-packet one-way delay: 63.800 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.60 Mbit/s
95th percentile per-packet one-way delay: 63.800 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 11:46:42

End at: 2018-01-02 11:47:12

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 0.00%

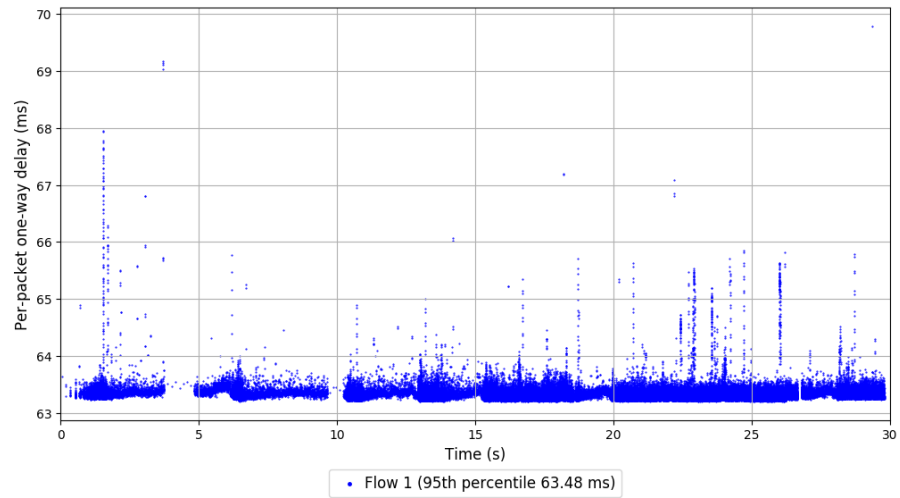
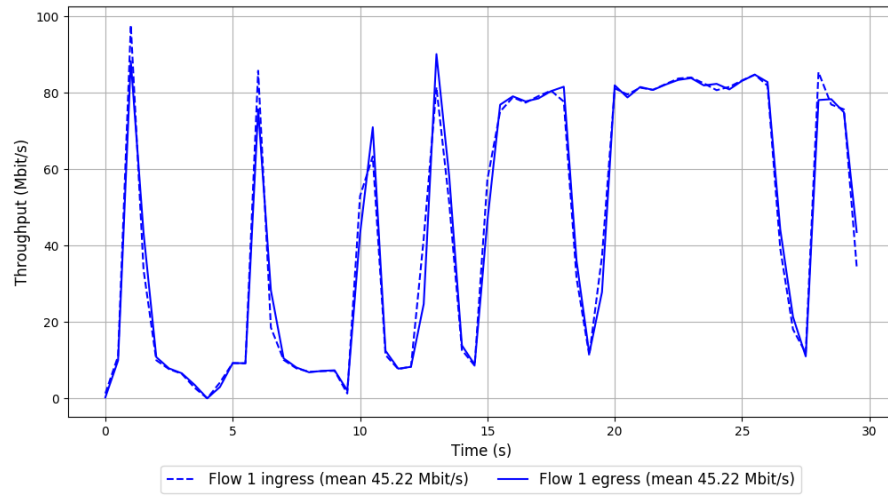
-- Flow 1:

Average throughput: 45.22 Mbit/s

95th percentile per-packet one-way delay: 63.478 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 11:57:55

End at: 2018-01-02 11:58:25

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.93 Mbit/s

95th percentile per-packet one-way delay: 61.421 ms

Loss rate: 0.00%

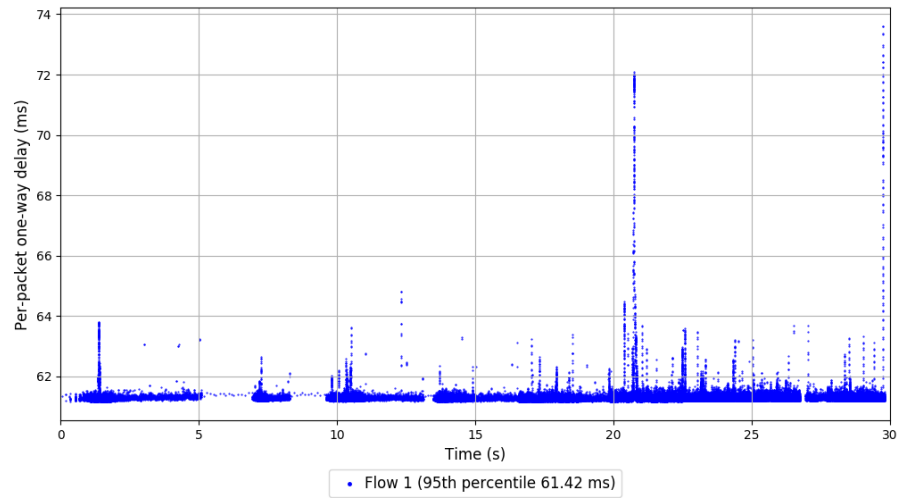
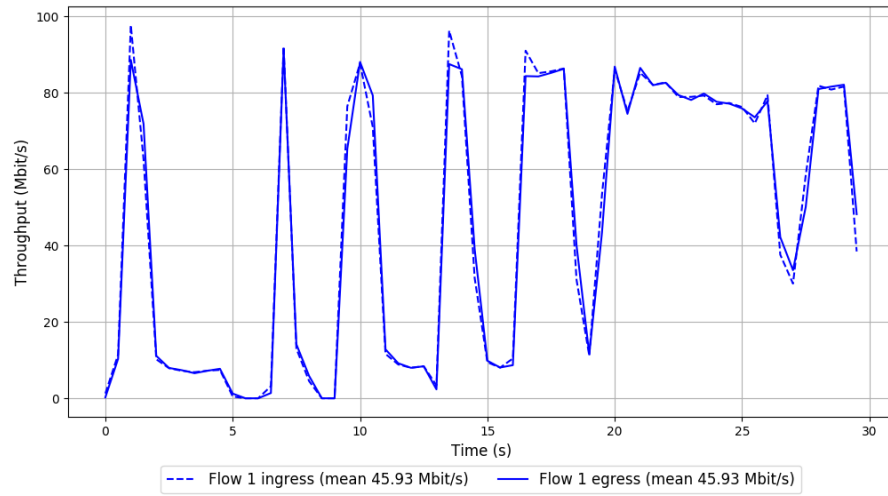
-- Flow 1:

Average throughput: 45.93 Mbit/s

95th percentile per-packet one-way delay: 61.421 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 12:09:42

End at: 2018-01-02 12:10:12

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.02 Mbit/s

95th percentile per-packet one-way delay: 63.304 ms

Loss rate: 0.00%

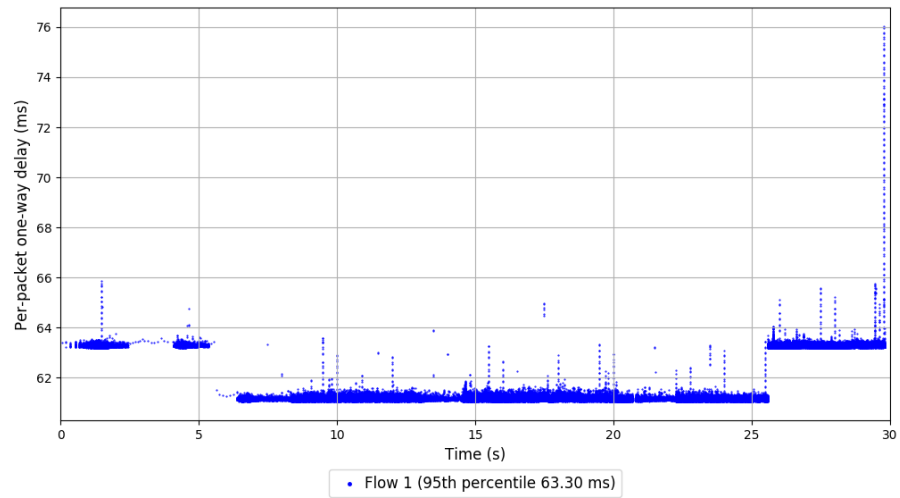
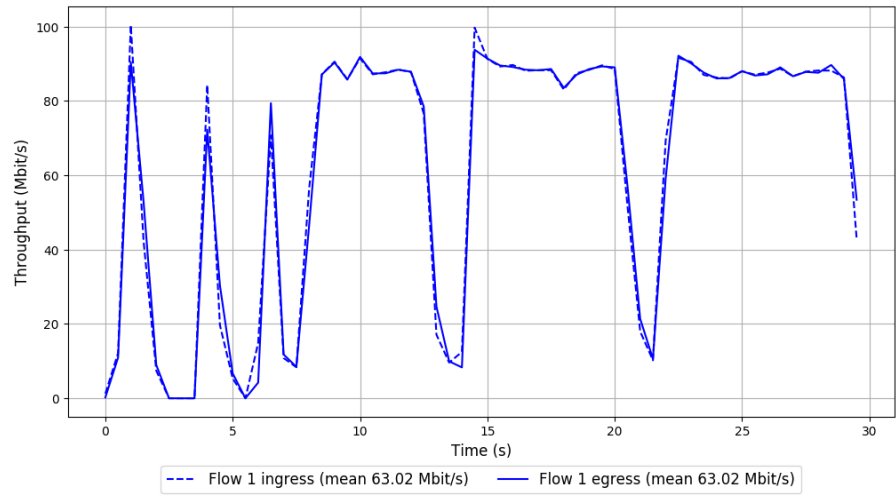
-- Flow 1:

Average throughput: 63.02 Mbit/s

95th percentile per-packet one-way delay: 63.304 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 12:21:03

End at: 2018-01-02 12:21:33

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.42 Mbit/s

95th percentile per-packet one-way delay: 63.372 ms

Loss rate: 0.00%

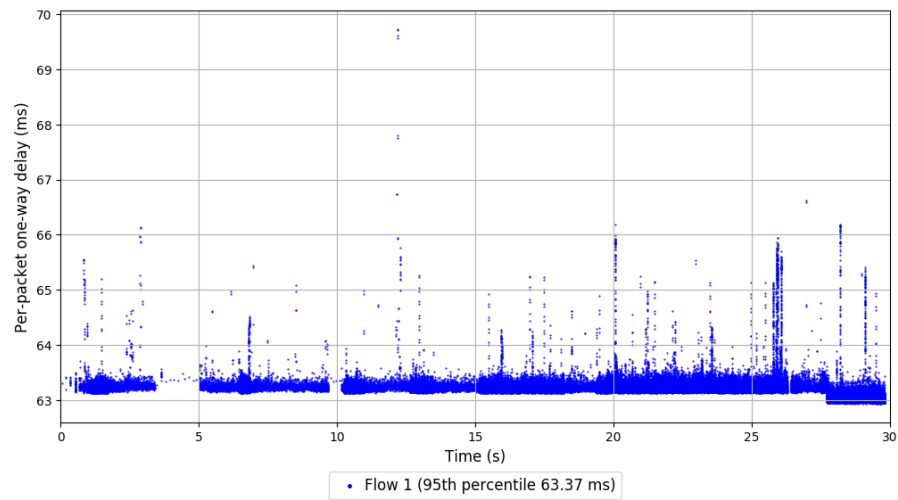
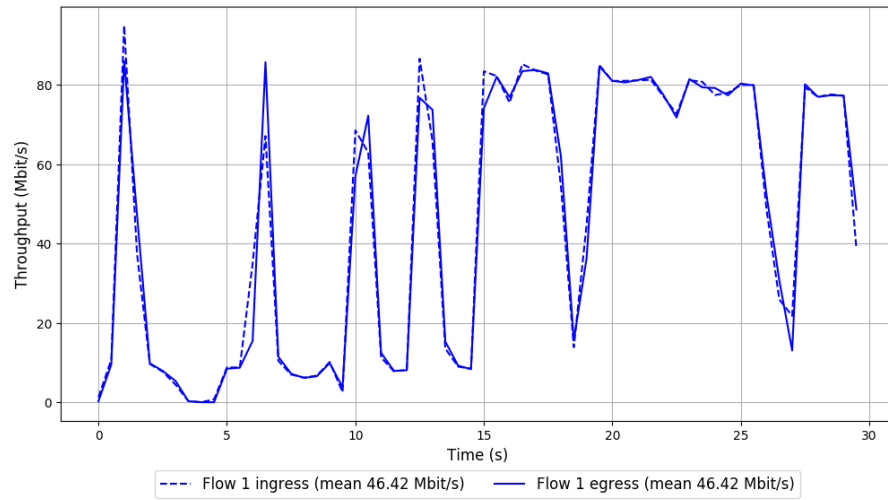
-- Flow 1:

Average throughput: 46.42 Mbit/s

95th percentile per-packet one-way delay: 63.372 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 12:32:19

End at: 2018-01-02 12:32:49

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 63.342 ms

Loss rate: 0.00%

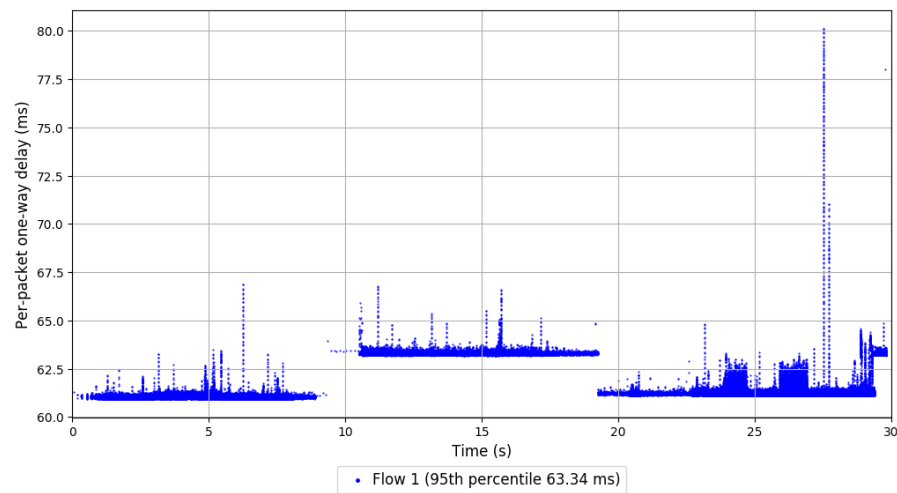
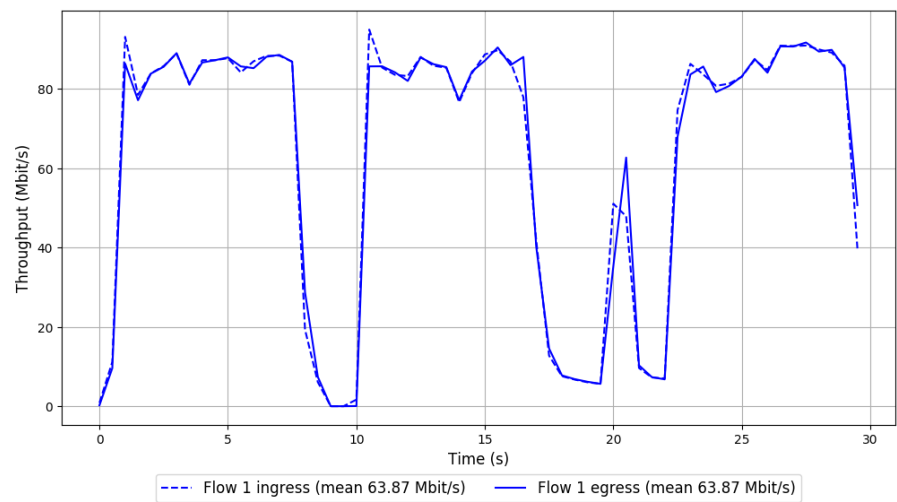
-- Flow 1:

Average throughput: 63.87 Mbit/s

95th percentile per-packet one-way delay: 63.342 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 12:44:11

End at: 2018-01-02 12:44:41

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.50 Mbit/s

95th percentile per-packet one-way delay: 63.129 ms

Loss rate: 0.00%

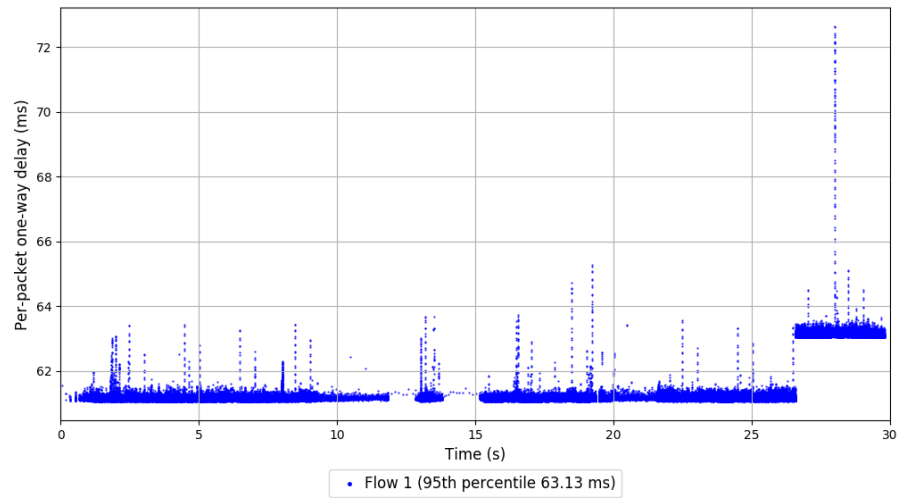
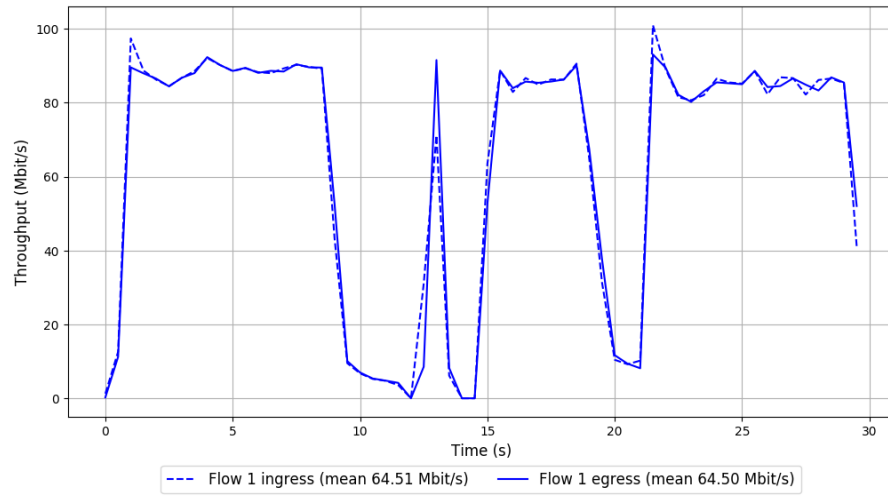
-- Flow 1:

Average throughput: 64.50 Mbit/s

95th percentile per-packet one-way delay: 63.129 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 12:55:22

End at: 2018-01-02 12:55:52

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.00%

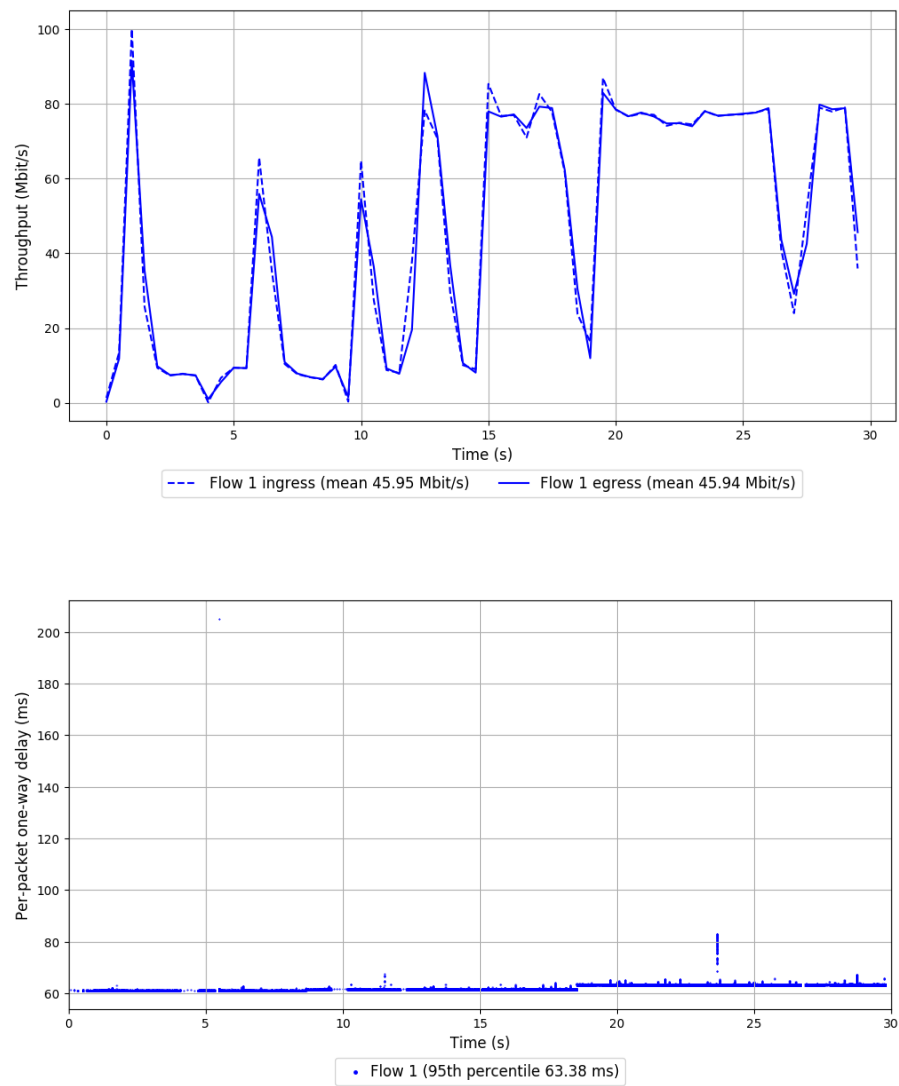
-- Flow 1:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 13:06:36

End at: 2018-01-02 13:07:06

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 0.00%

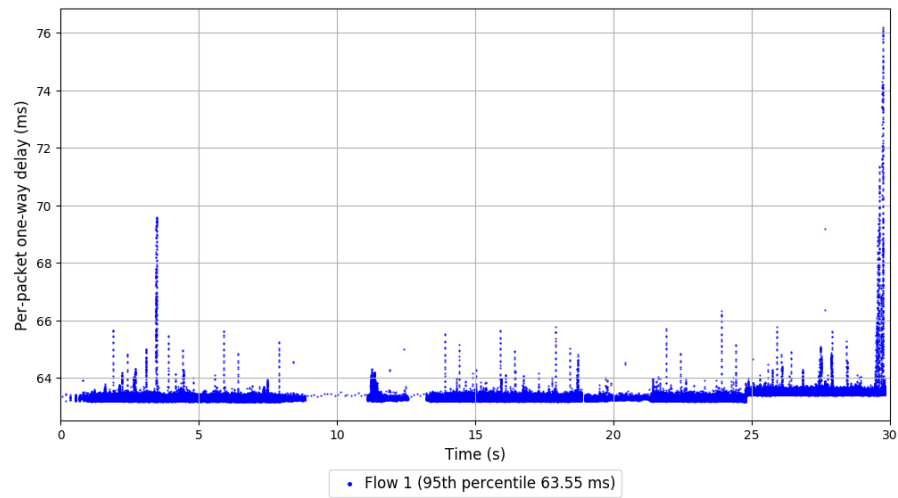
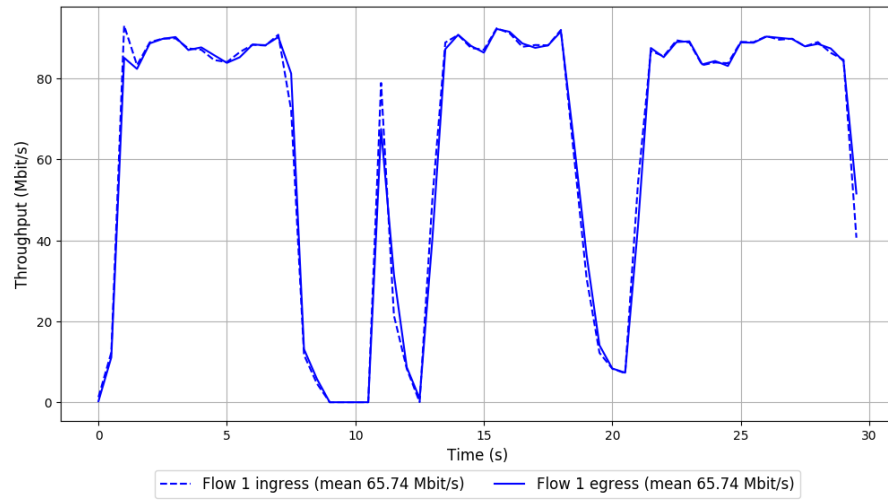
-- Flow 1:

Average throughput: 65.74 Mbit/s

95th percentile per-packet one-way delay: 63.546 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

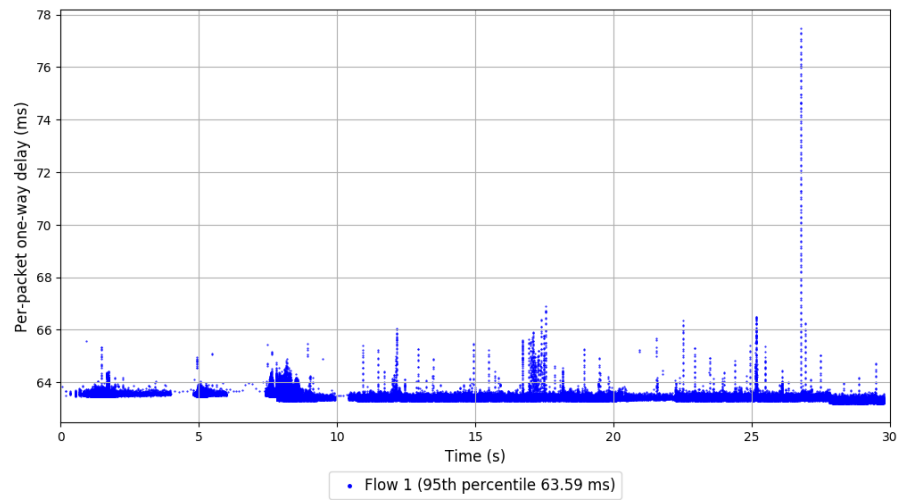
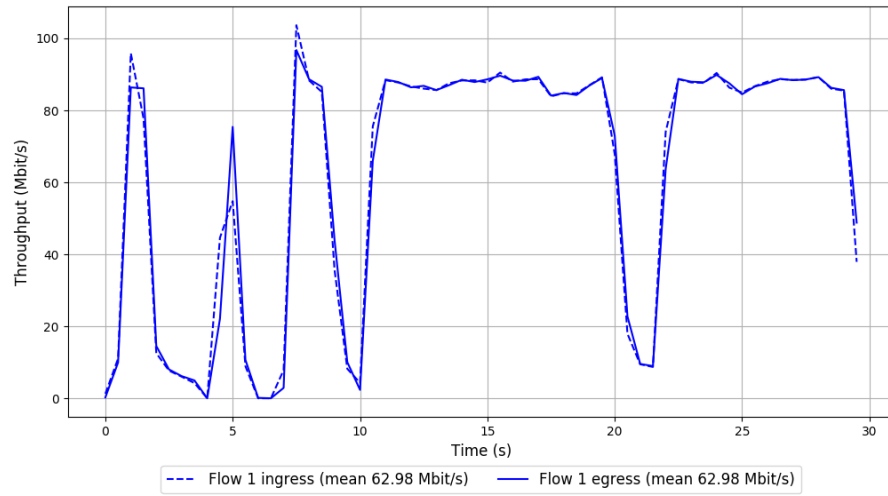


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 13:18:03
End at: 2018-01-02 13:18:33

# Below is generated by plot.py at 2018-01-02 14:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 63.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 62.98 Mbit/s
95th percentile per-packet one-way delay: 63.594 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

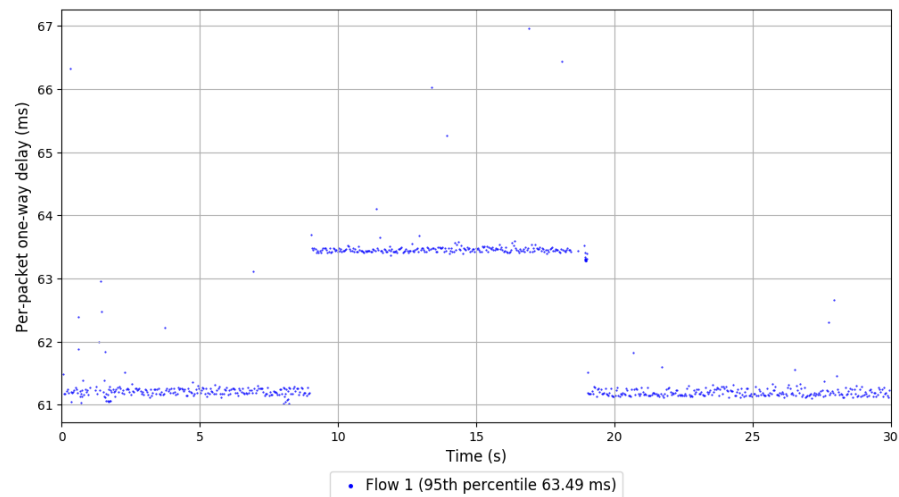
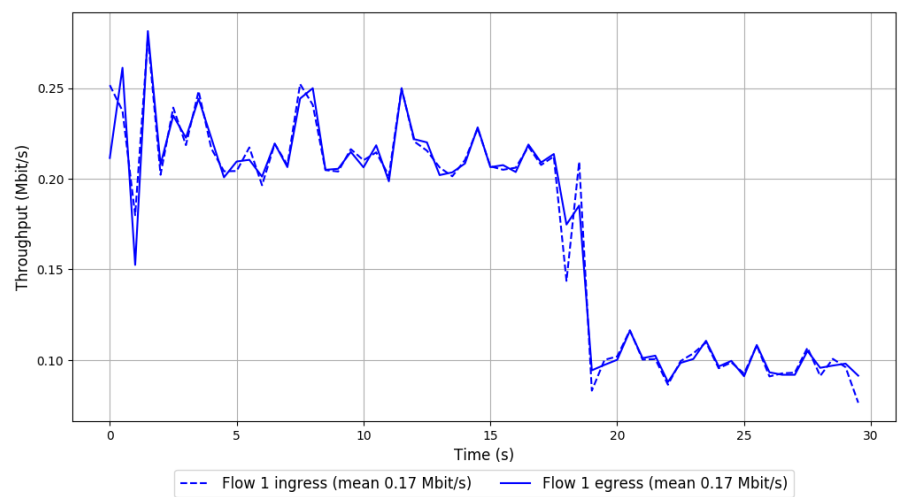


```
Run 1: Statistics of SCReAM

Start at: 2018-01-02 11:37:49
End at: 2018-01-02 11:38:19

# Below is generated by plot.py at 2018-01-02 14:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

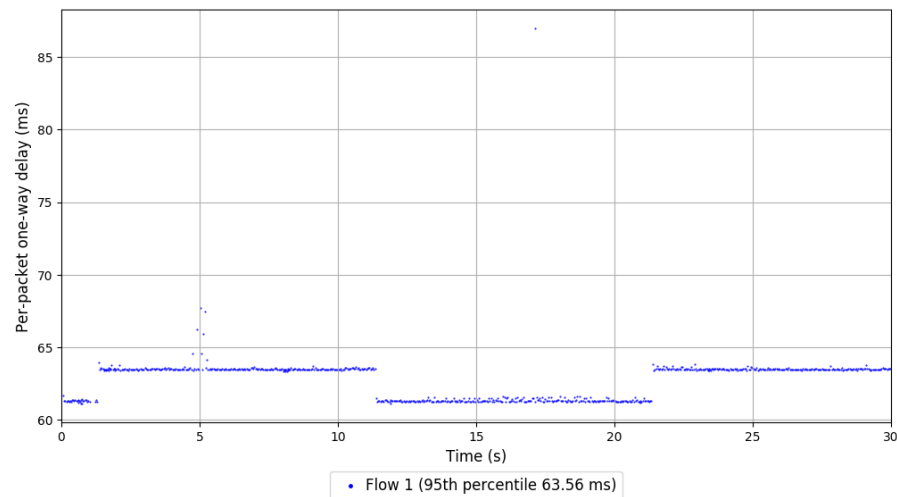
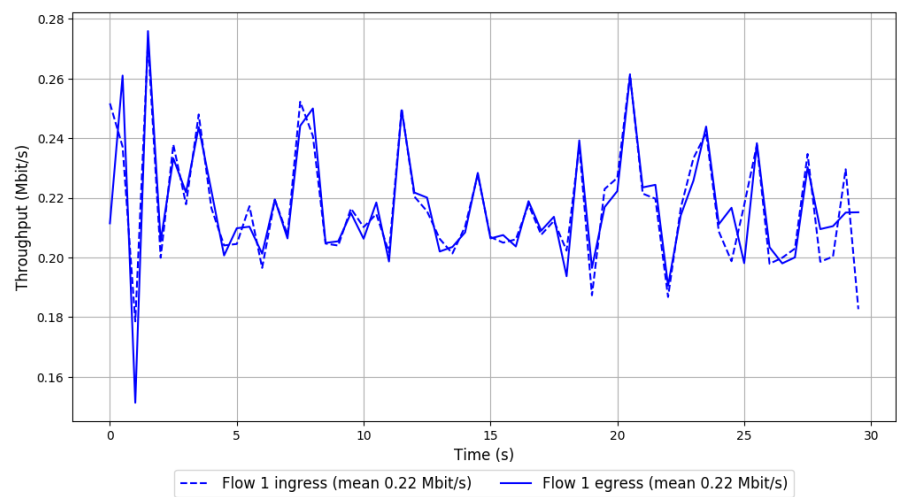


```
Run 2: Statistics of SCReAM

Start at: 2018-01-02 11:49:30
End at: 2018-01-02 11:50:00

# Below is generated by plot.py at 2018-01-02 14:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.560 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.560 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-02 12:00:43

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

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

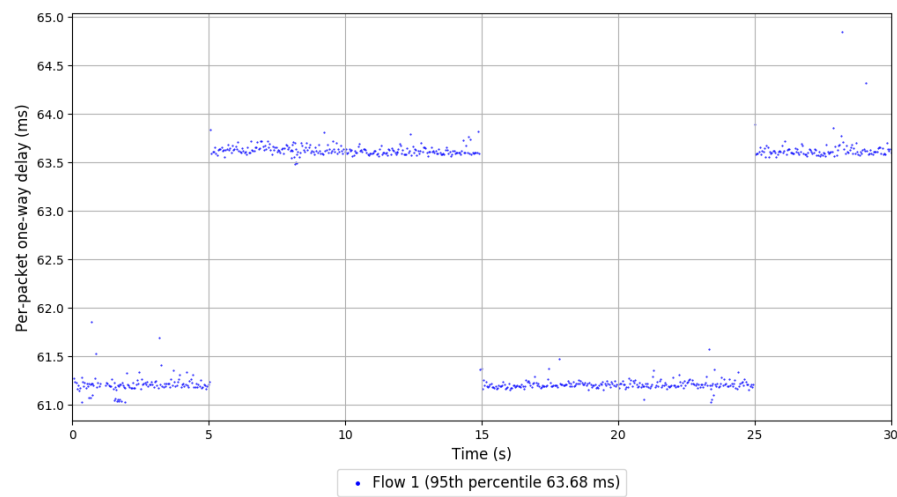
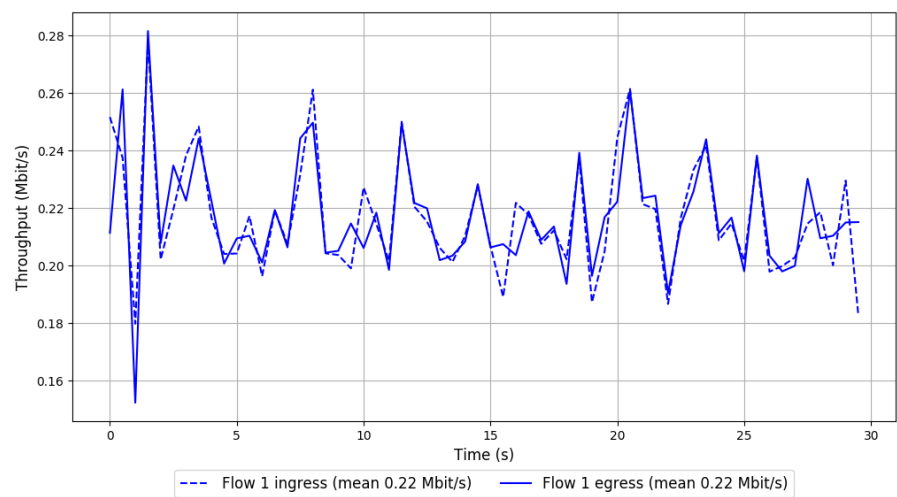
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-02 12:12:33

End at: 2018-01-02 12:13:03

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.502 ms

Loss rate: 0.00%

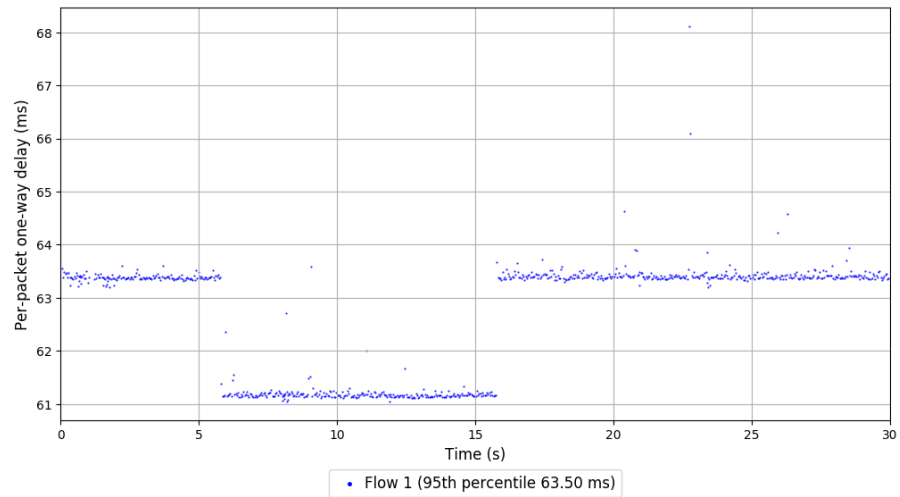
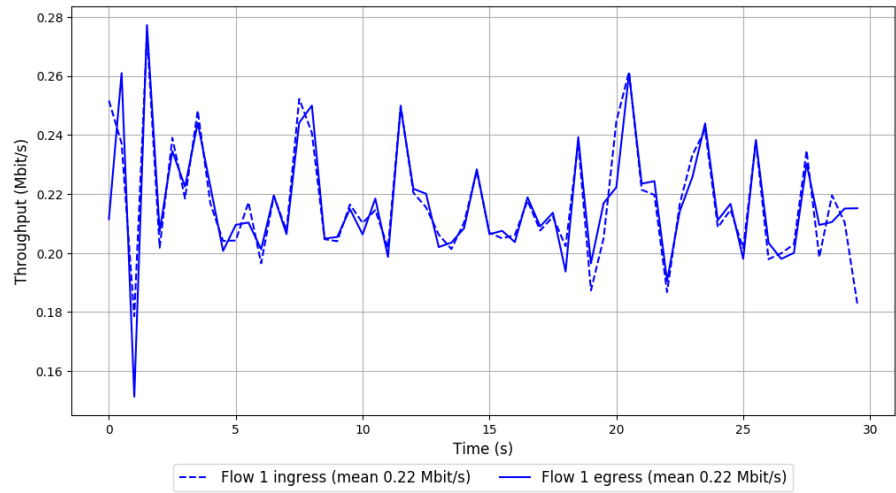
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.502 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-02 12:23:53

End at: 2018-01-02 12:24:23

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.679 ms

Loss rate: 0.00%

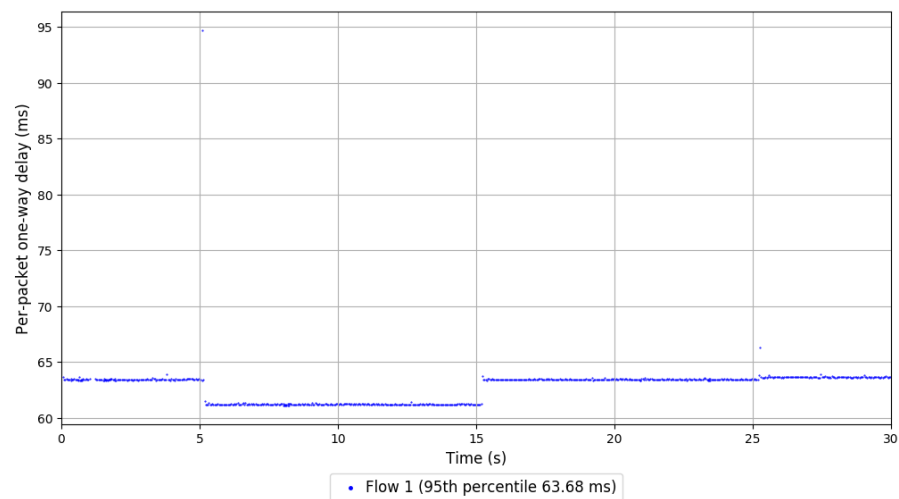
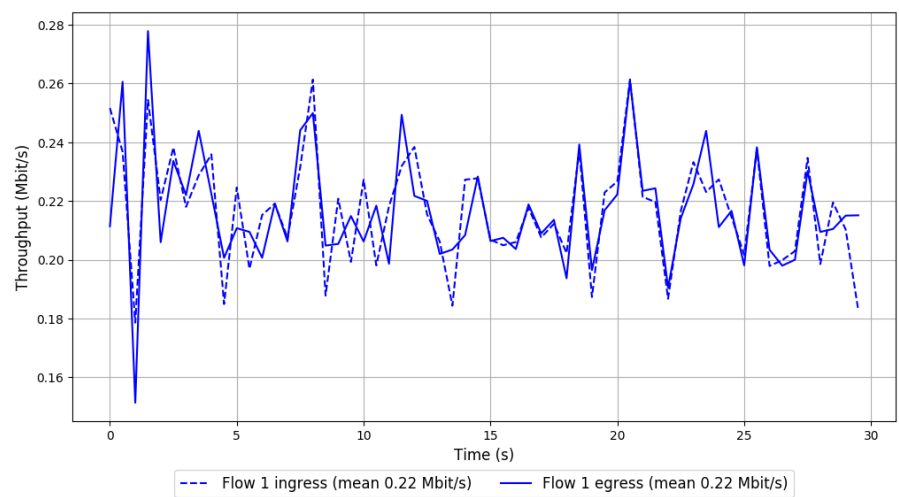
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.679 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-02 12:35:07

End at: 2018-01-02 12:35:37

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.565 ms

Loss rate: 0.00%

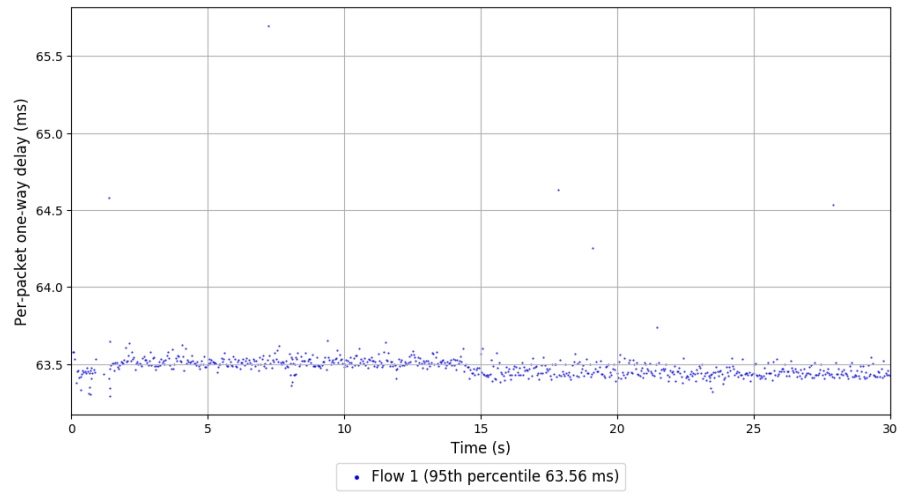
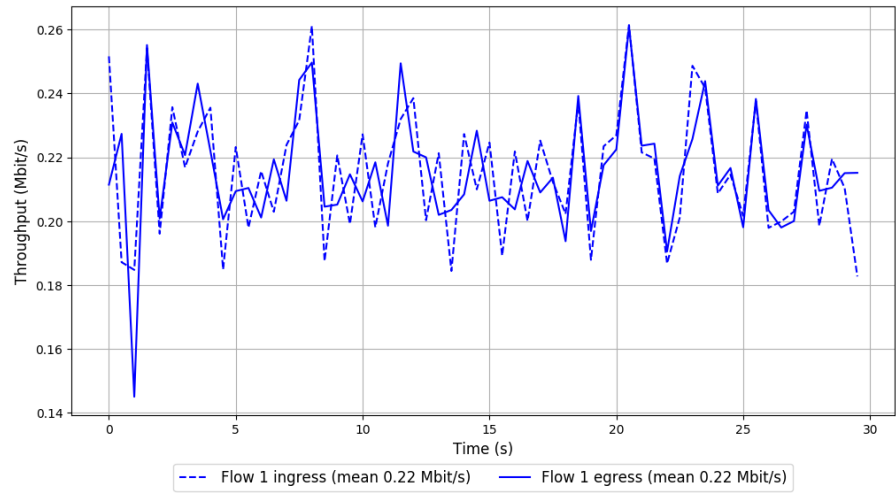
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.565 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

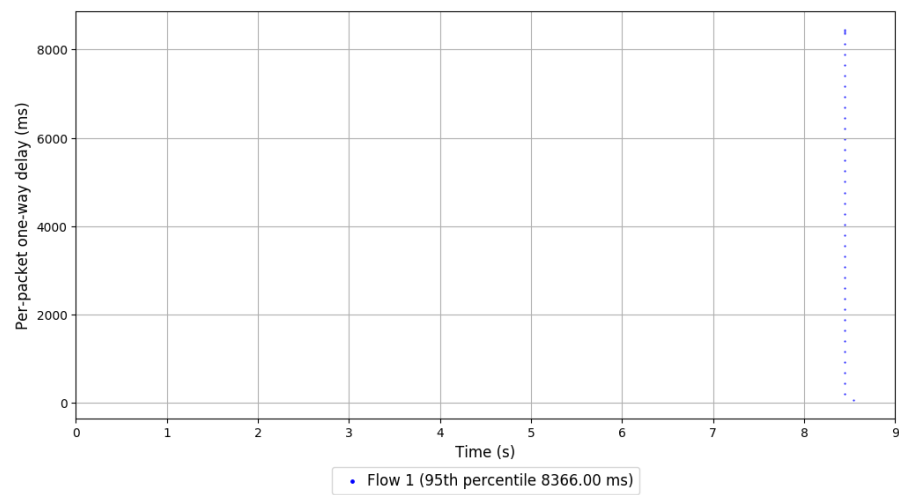
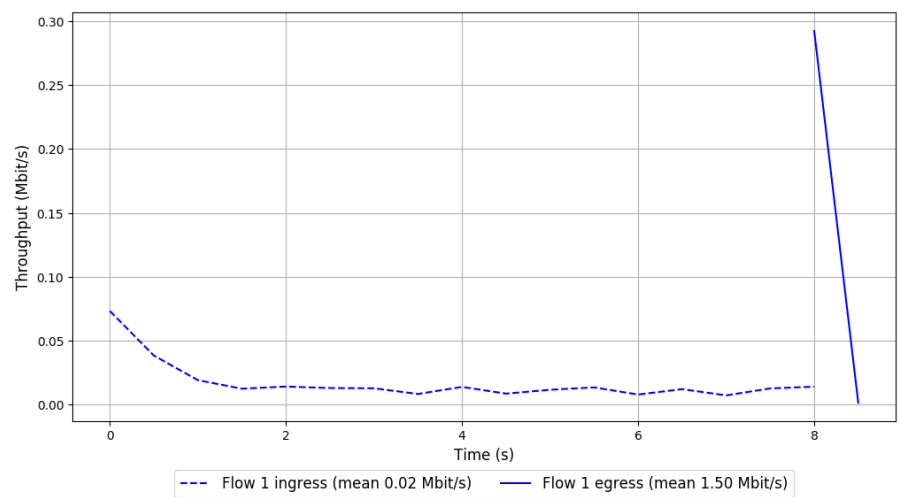


Run 7: Statistics of SReAM

Start at: 2018-01-02 12:46:58

End at: 2018-01-02 12:47:28

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-02 12:58:10

End at: 2018-01-02 12:58:40

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

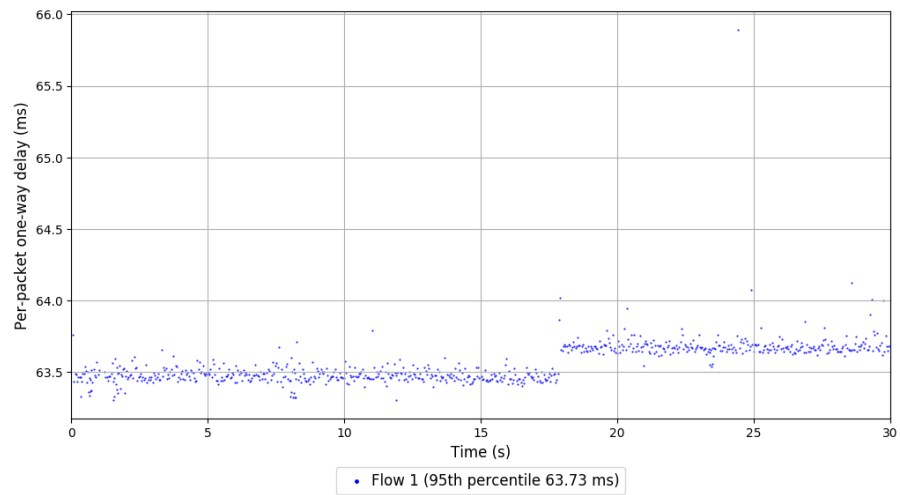
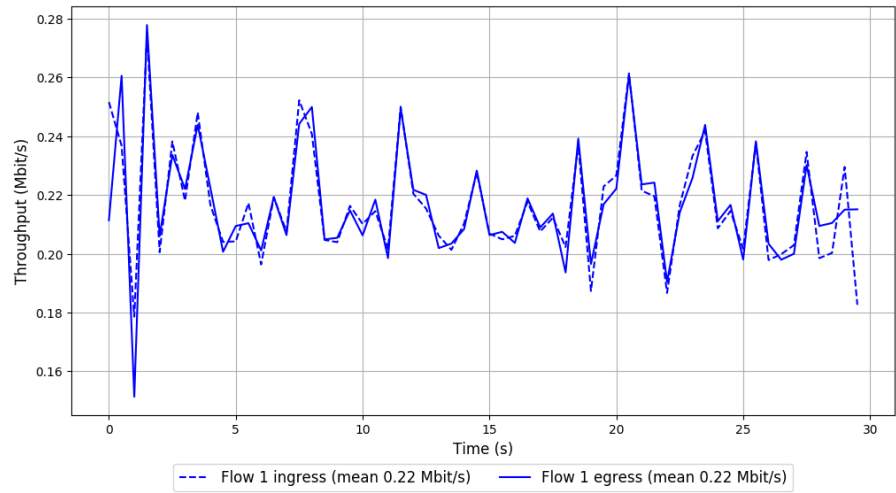
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

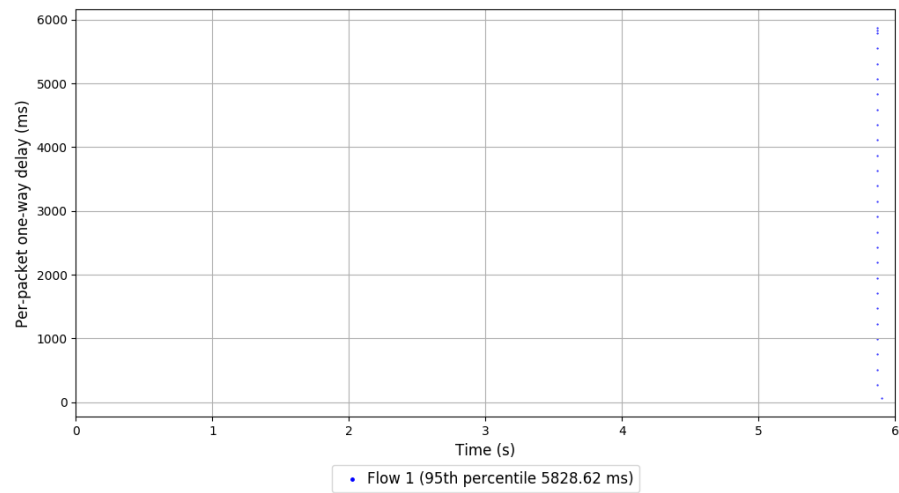
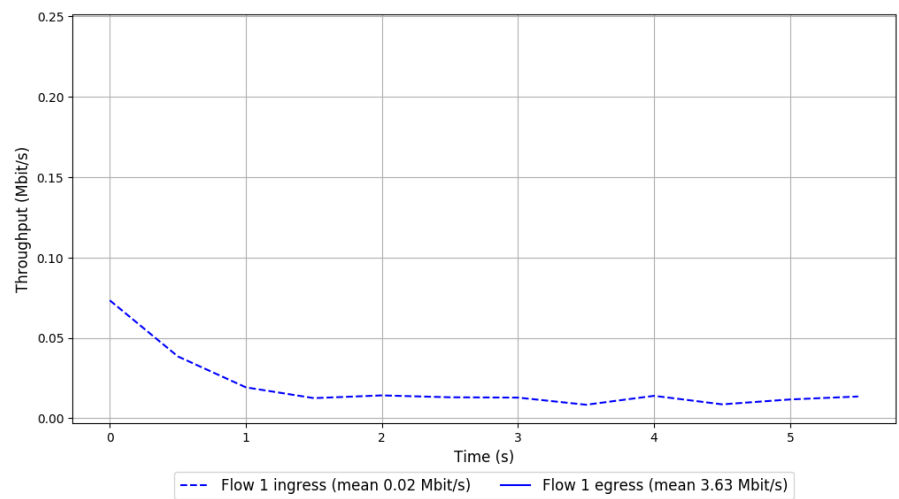


Run 9: Statistics of SReAM

Start at: 2018-01-02 13:09:24

End at: 2018-01-02 13:09:54

Run 9: Report of SReAM — Data Link

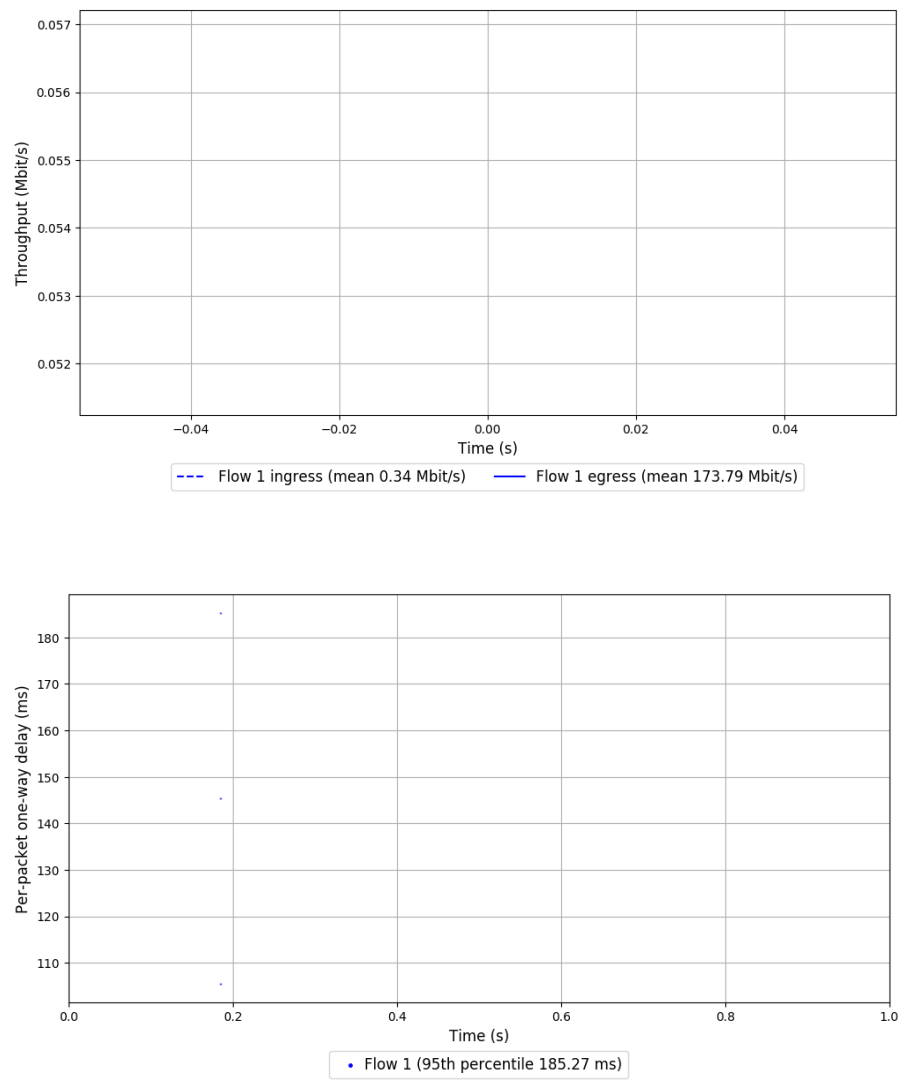


Run 10: Statistics of SCReAM

Start at: 2018-01-02 13:21:00

End at: 2018-01-02 13:21:30

Run 10: Report of SCReAM — Data Link

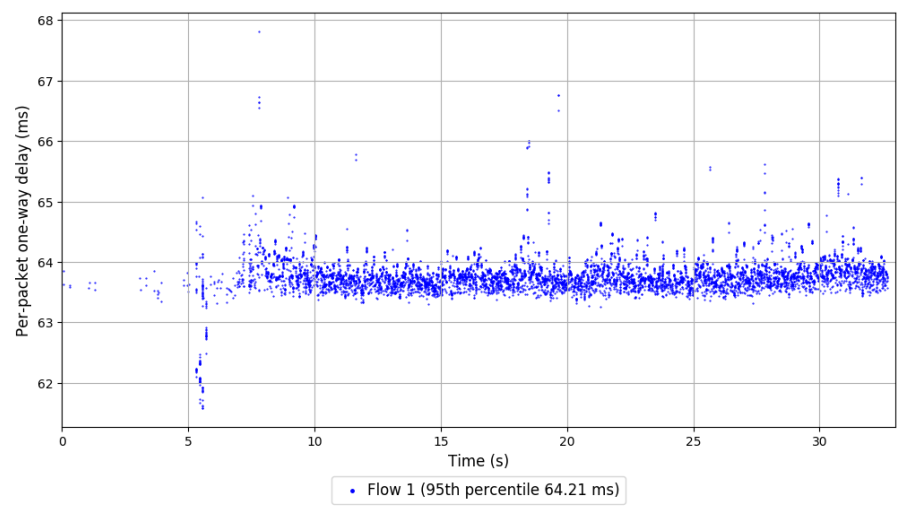
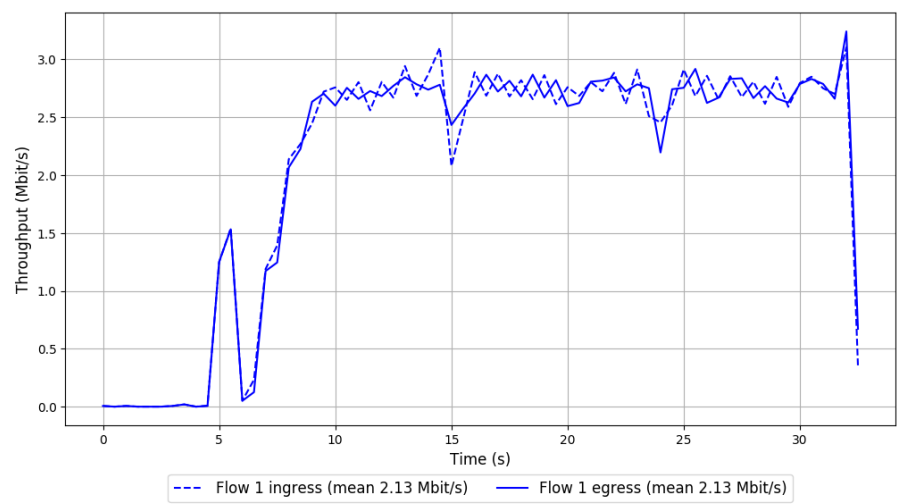


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 11:33:43
End at: 2018-01-02 11:34:13

# Below is generated by plot.py at 2018-01-02 14:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 64.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 64.206 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link

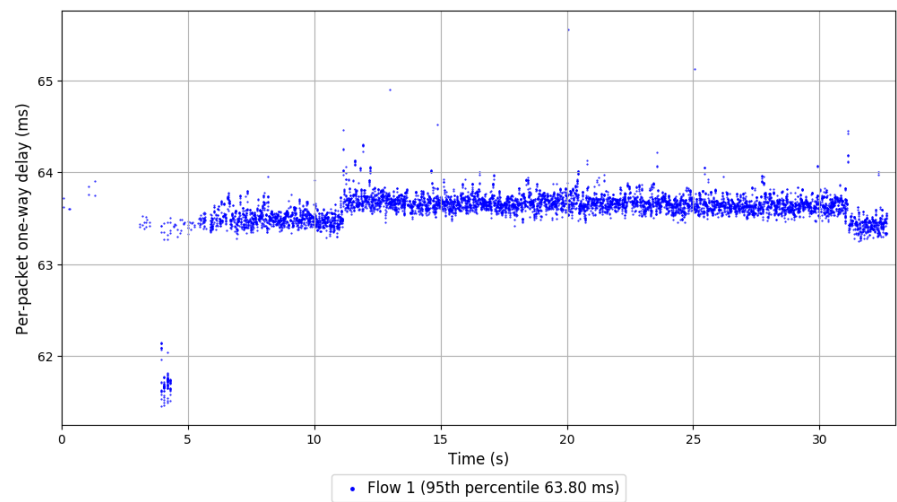
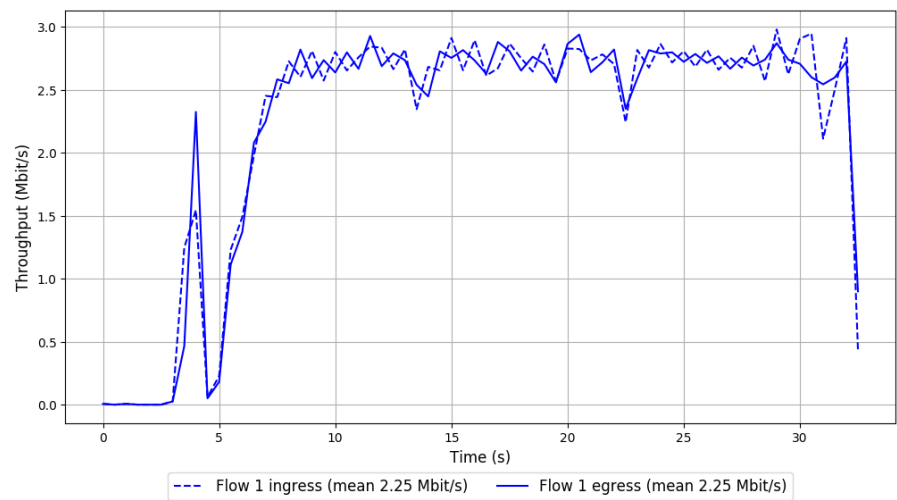


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-02 11:45:12
End at: 2018-01-02 11:45:42

# Below is generated by plot.py at 2018-01-02 14:28:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 63.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 63.805 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 11:56:26

End at: 2018-01-02 11:56:56

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.442 ms

Loss rate: 0.00%

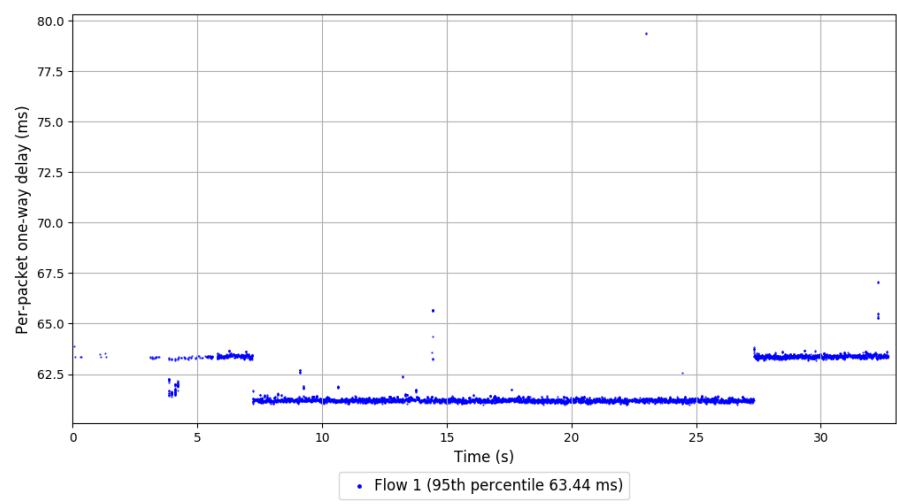
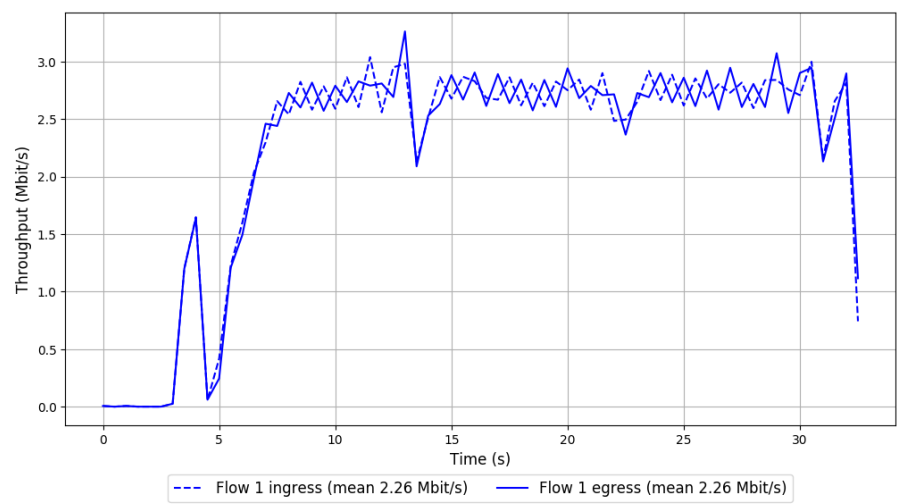
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.442 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 12:08:16

End at: 2018-01-02 12:08:46

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 0.00%

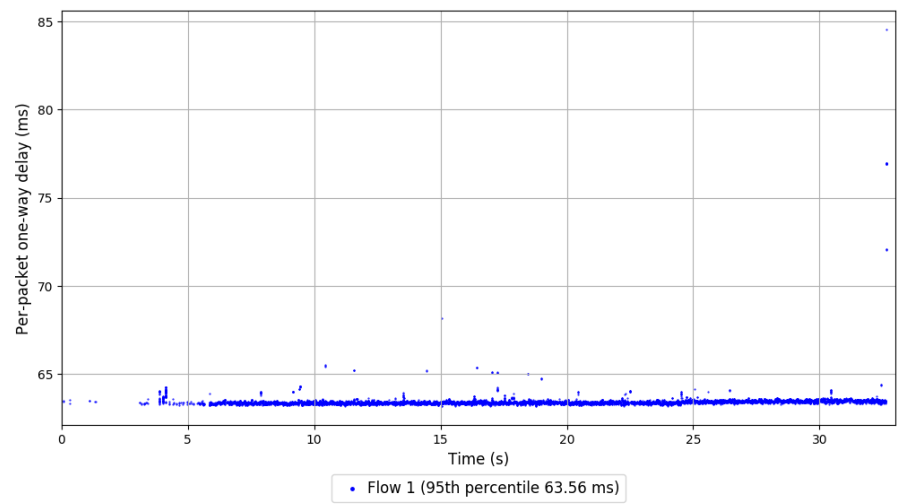
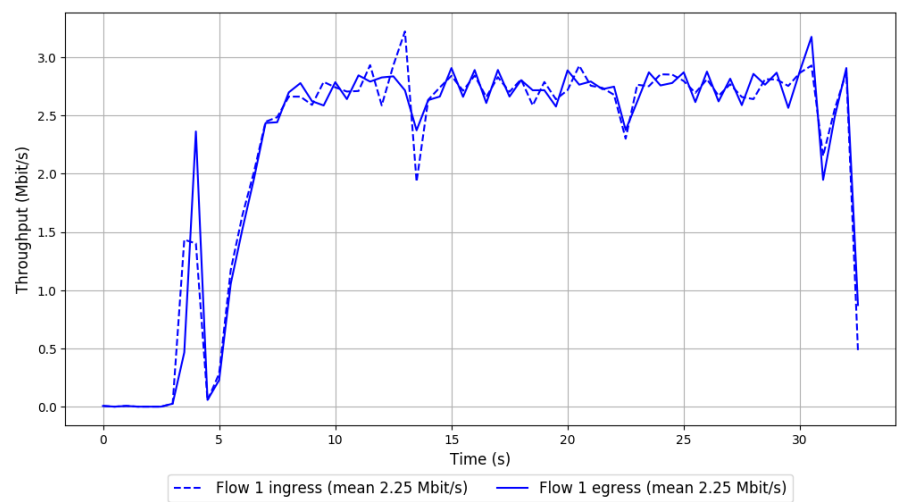
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.558 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 12:19:30

End at: 2018-01-02 12:20:00

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.607 ms

Loss rate: 0.00%

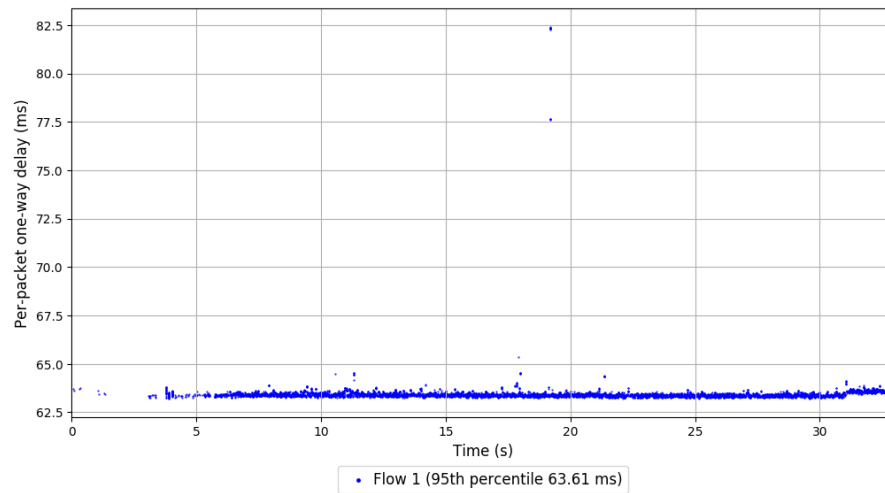
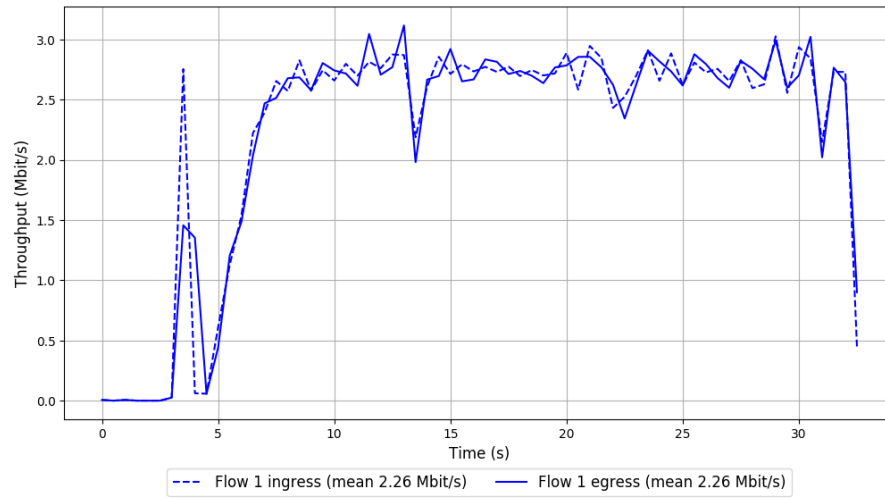
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.607 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 12:30:54

End at: 2018-01-02 12:31:24

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.00%

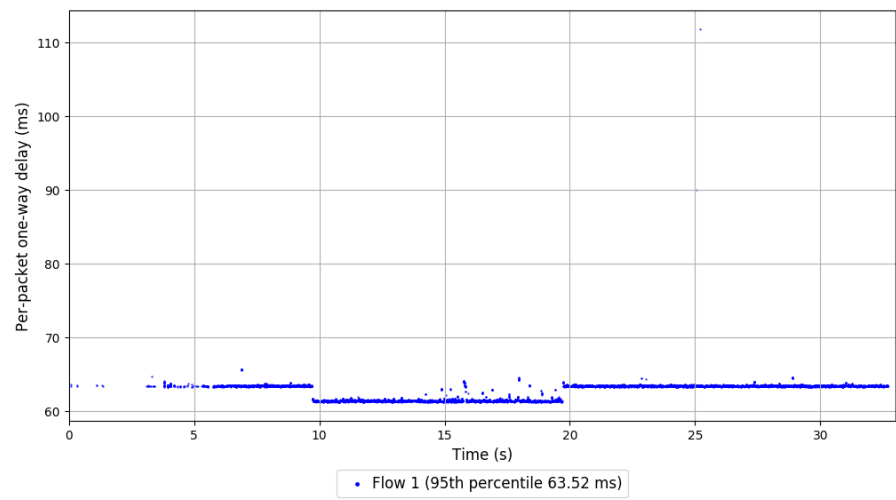
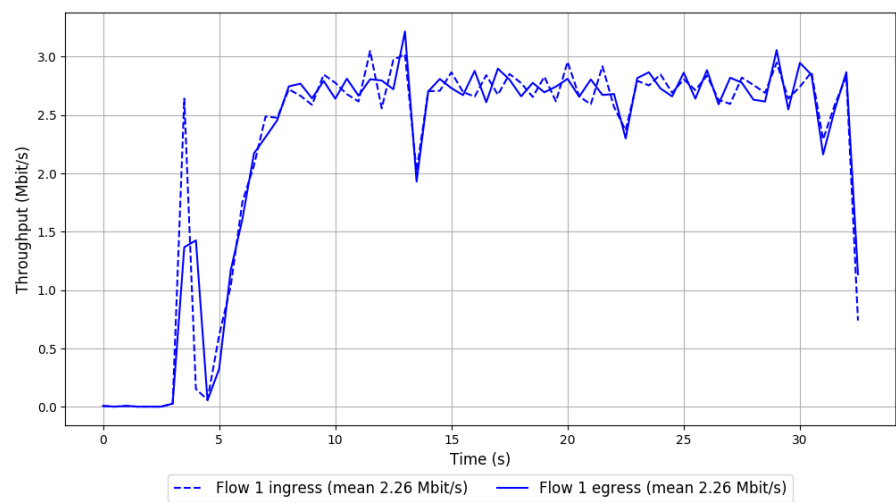
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-02 12:42:36

End at: 2018-01-02 12:43:06

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.463 ms

Loss rate: 0.00%

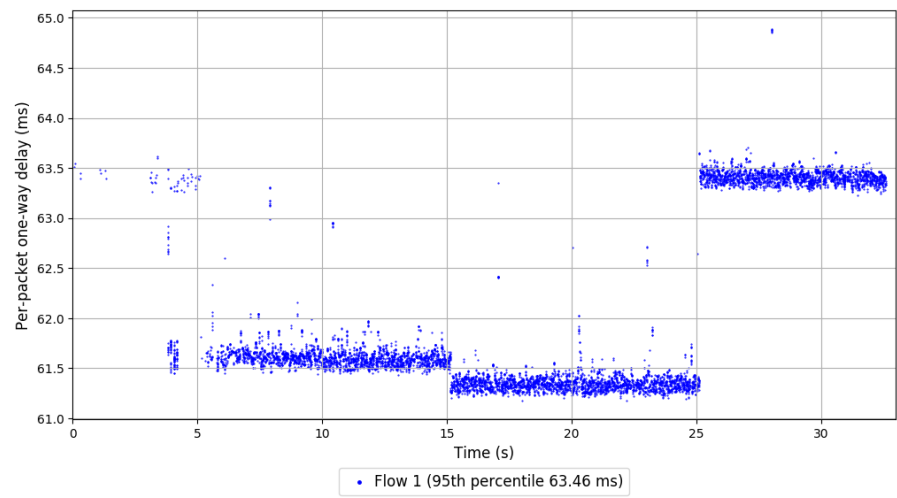
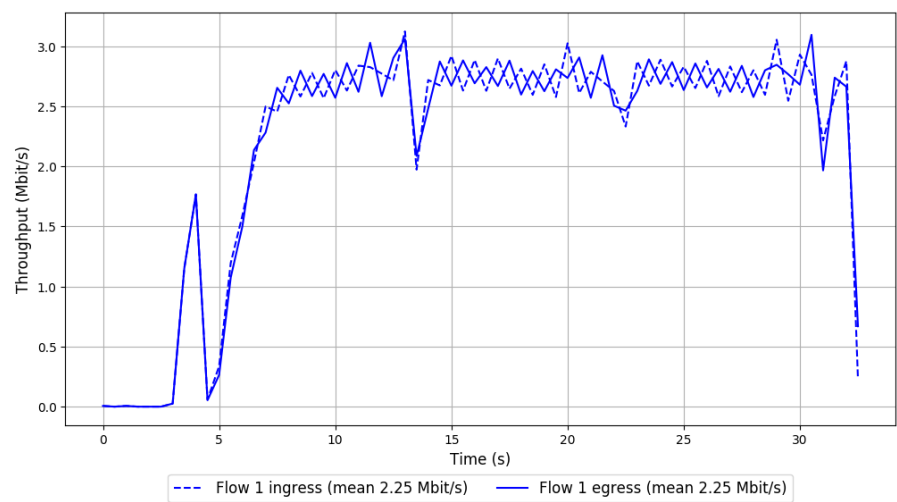
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.463 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-02 12:53:49

End at: 2018-01-02 12:54:19

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.482 ms

Loss rate: 0.00%

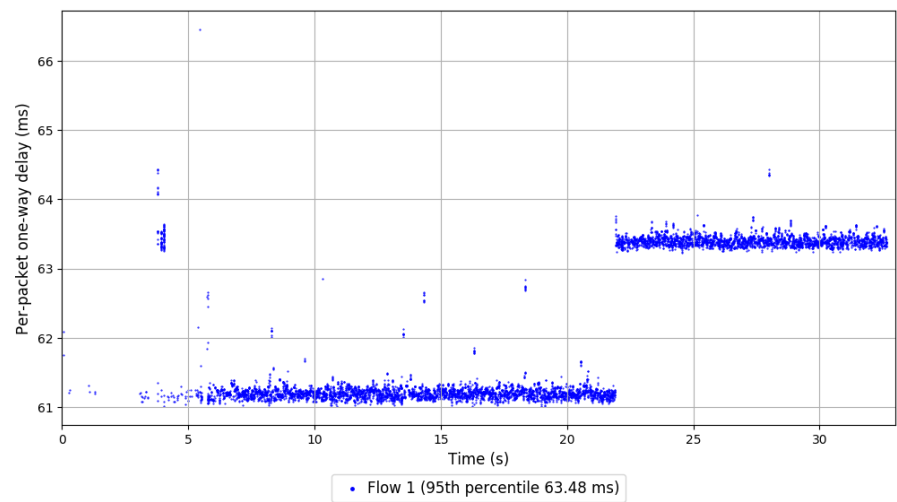
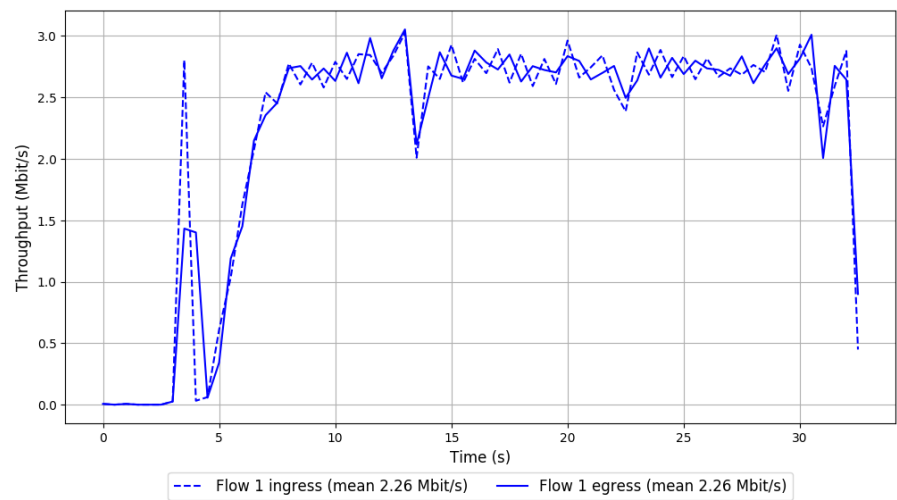
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.482 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 13:05:00

End at: 2018-01-02 13:05:30

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.00%

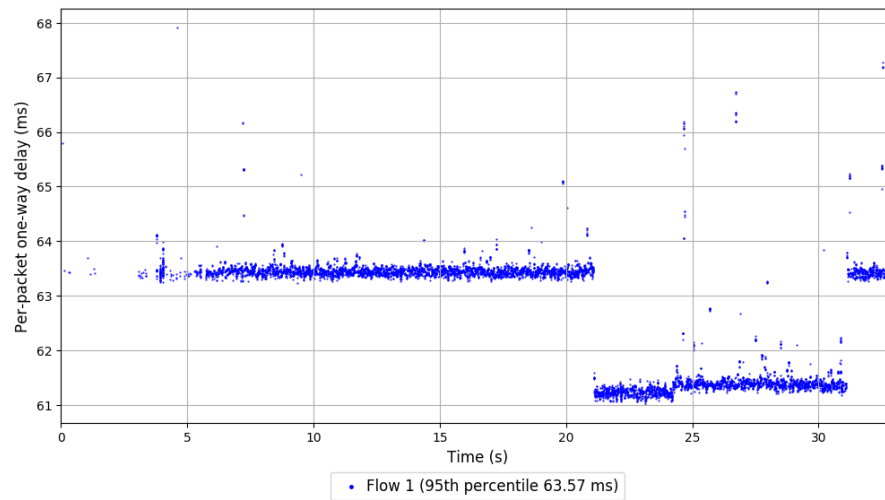
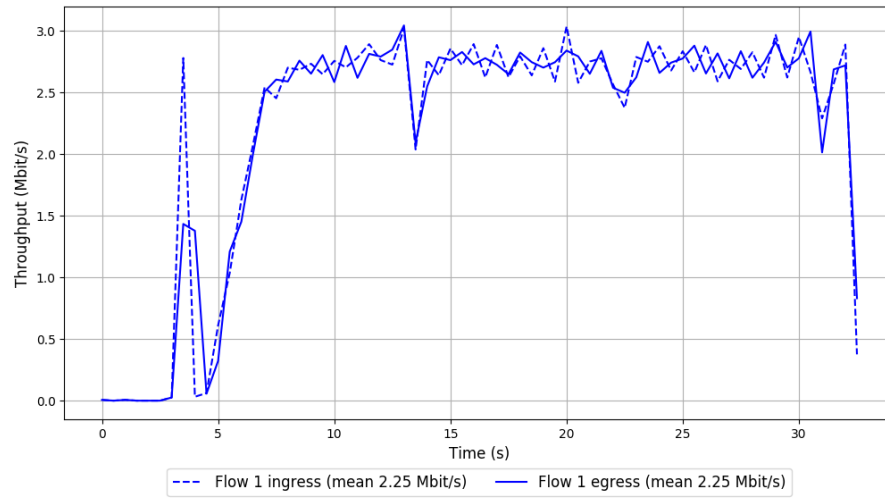
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 63.573 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 13:16:28

End at: 2018-01-02 13:16:58

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.00%

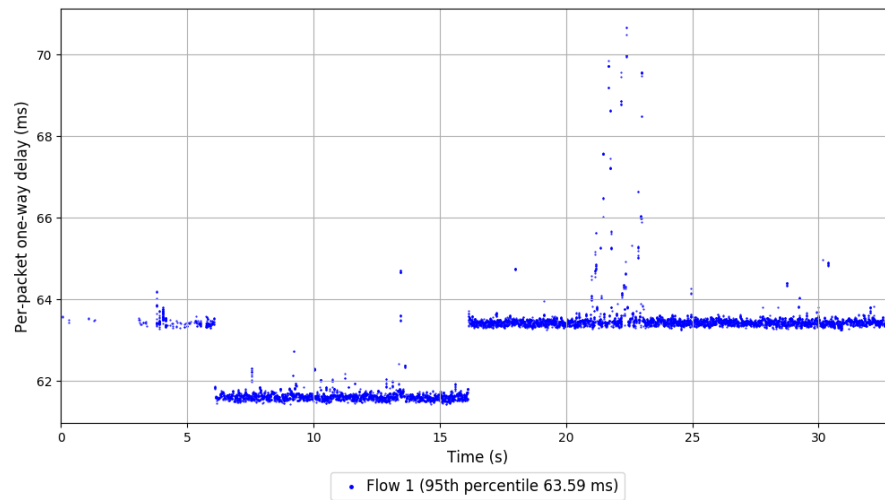
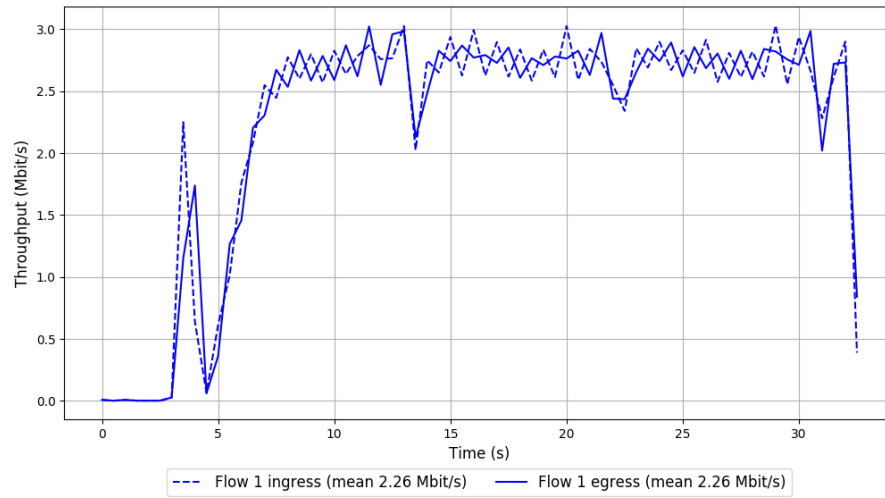
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-02 11:41:15

End at: 2018-01-02 11:41:45

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 63.897 ms

Loss rate: 0.10%

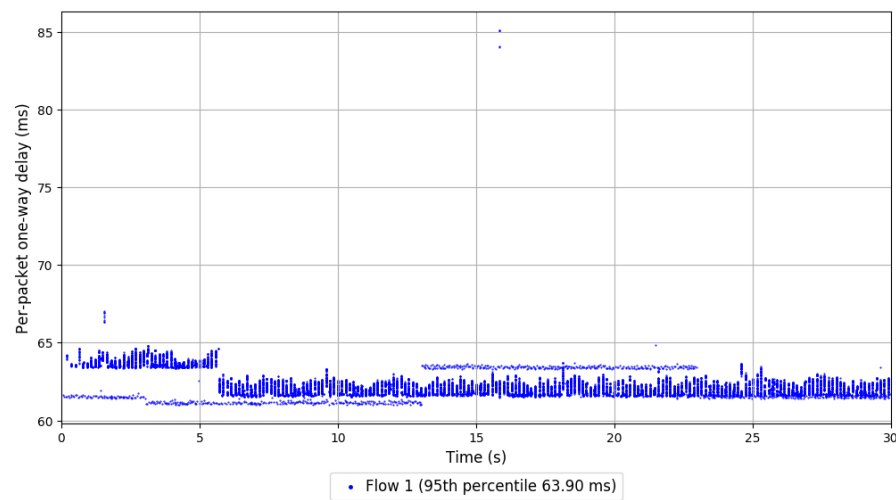
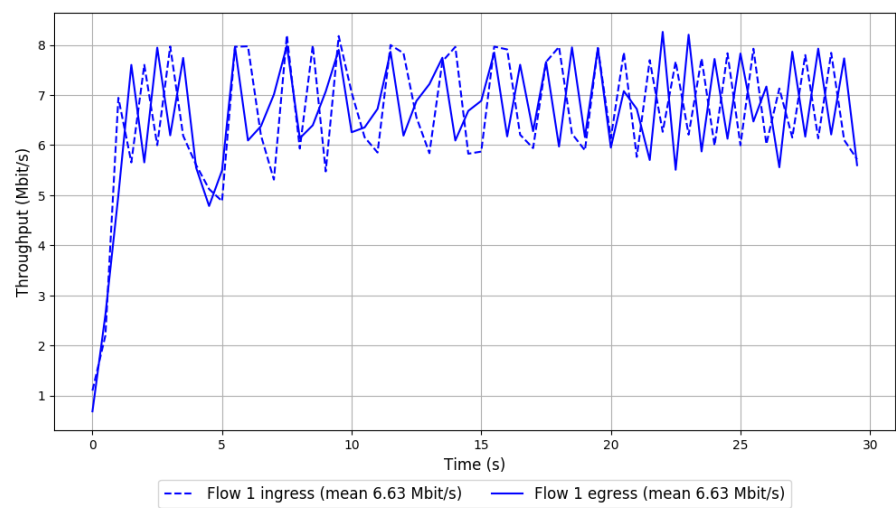
-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 63.897 ms

Loss rate: 0.10%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 11:52:26

End at: 2018-01-02 11:52:56

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 63.979 ms

Loss rate: 0.38%

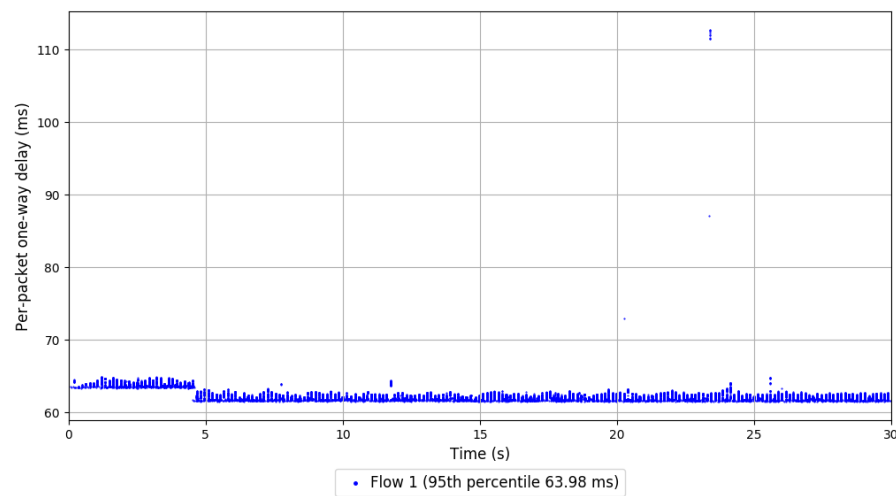
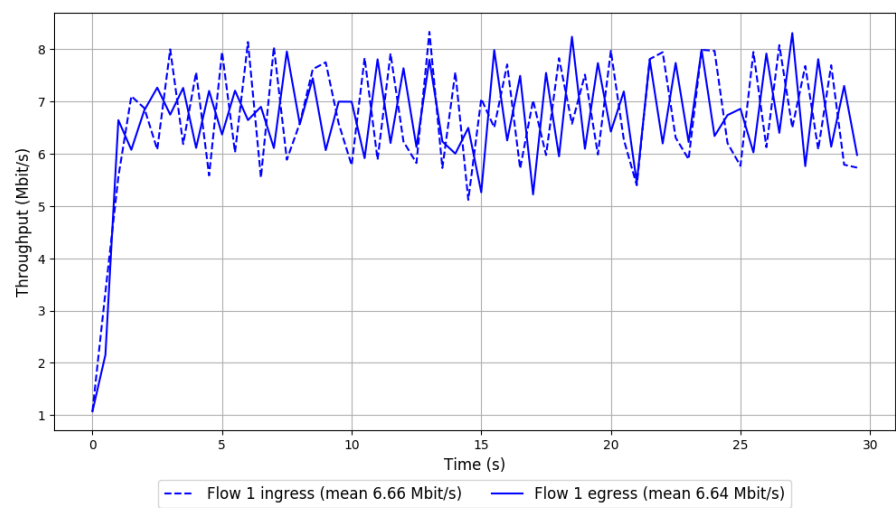
-- Flow 1:

Average throughput: 6.64 Mbit/s

95th percentile per-packet one-way delay: 63.979 ms

Loss rate: 0.38%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 12:04:14

End at: 2018-01-02 12:04:44

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 64.248 ms

Loss rate: 0.00%

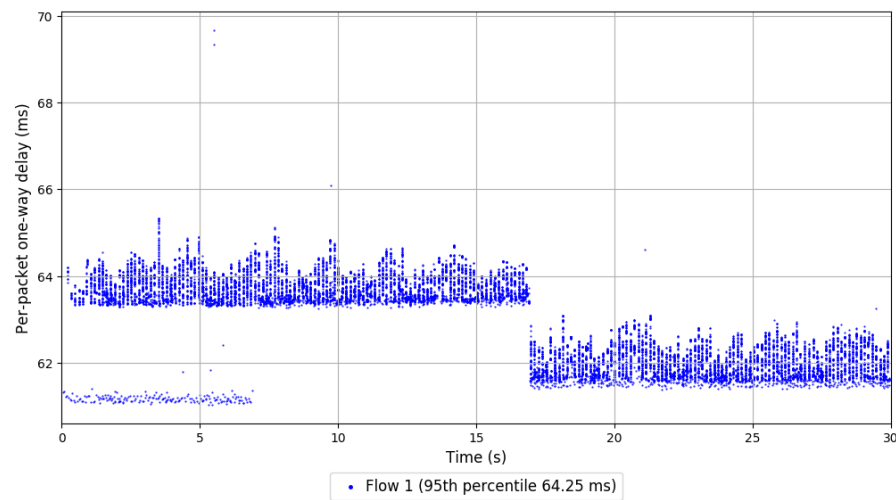
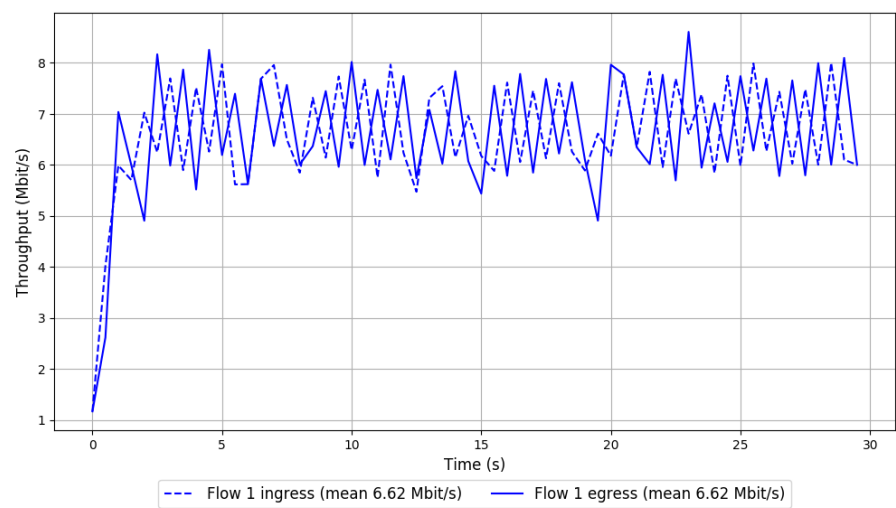
-- Flow 1:

Average throughput: 6.62 Mbit/s

95th percentile per-packet one-way delay: 64.248 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-02 12:15:27

End at: 2018-01-02 12:15:57

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 64.524 ms

Loss rate: 0.00%

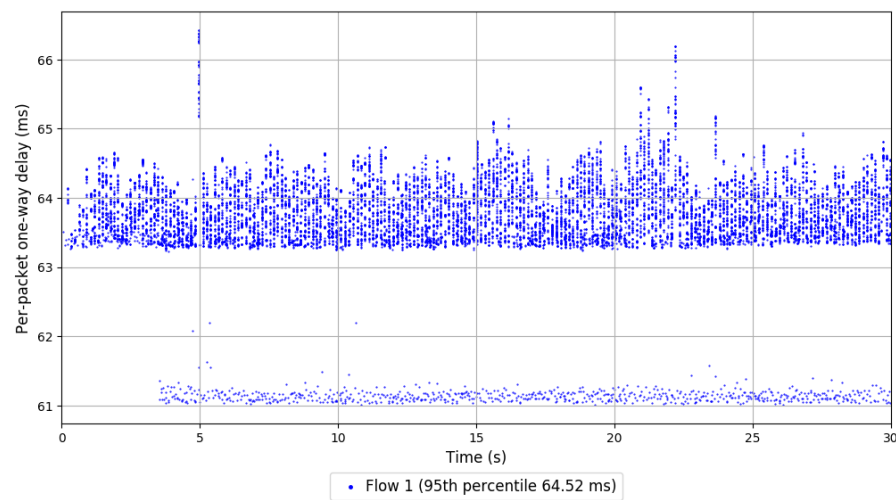
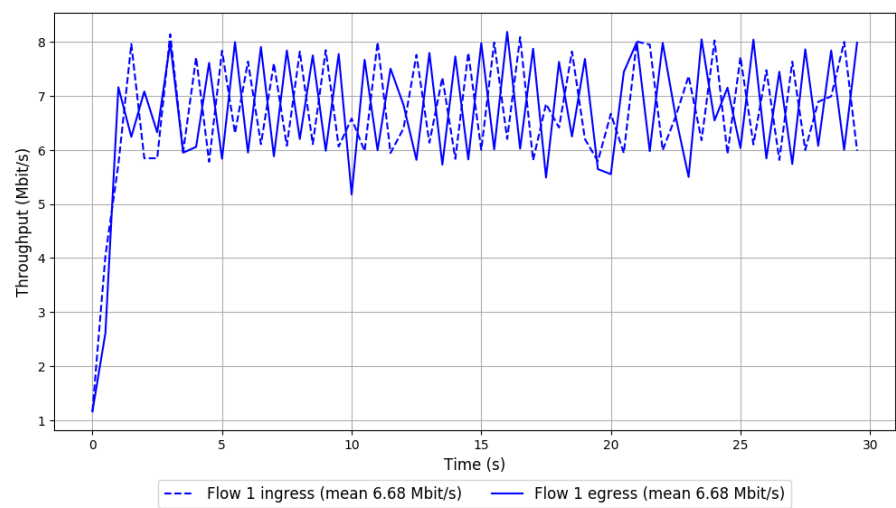
-- Flow 1:

Average throughput: 6.68 Mbit/s

95th percentile per-packet one-way delay: 64.524 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-02 12:27:12

End at: 2018-01-02 12:27:42

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.38 Mbit/s

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

Loss rate: 0.67%

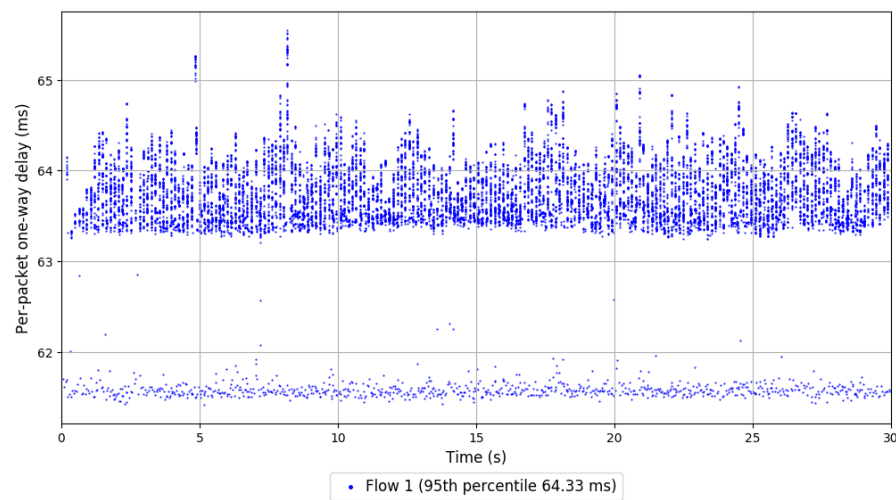
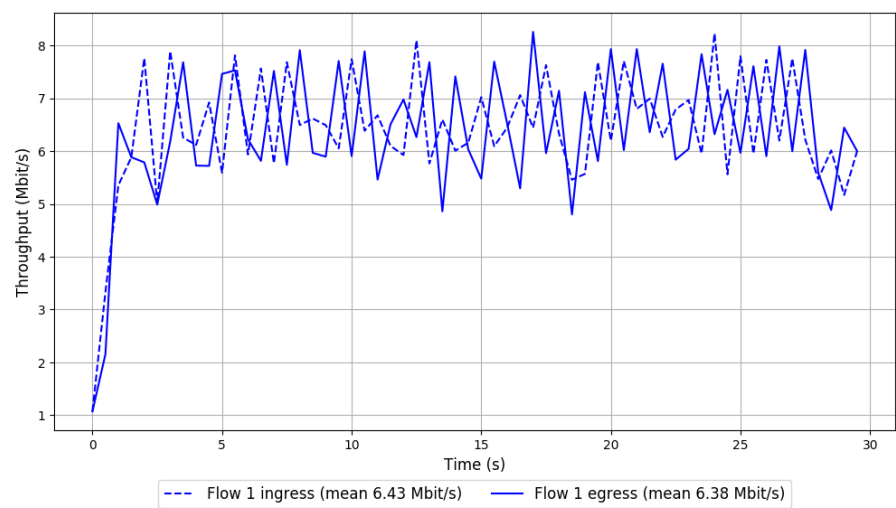
-- Flow 1:

Average throughput: 6.38 Mbit/s

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

Loss rate: 0.67%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-02 12:38:35

End at: 2018-01-02 12:39:06

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.327 ms

Loss rate: 0.00%

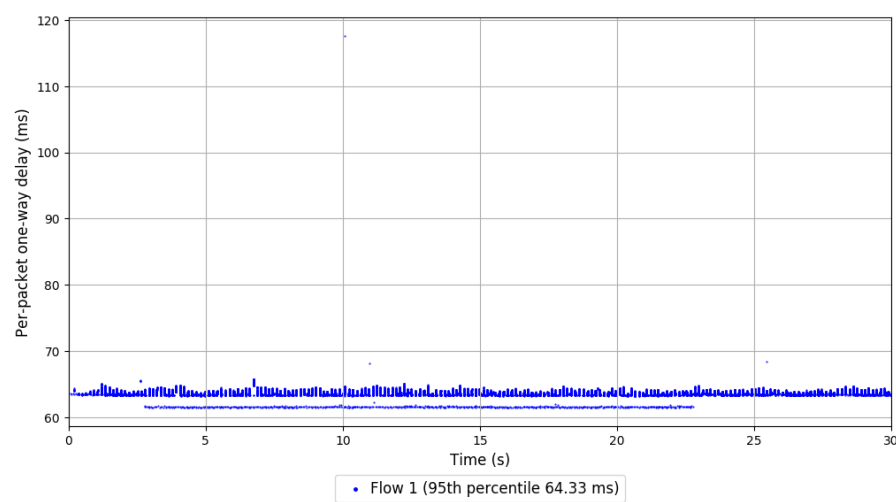
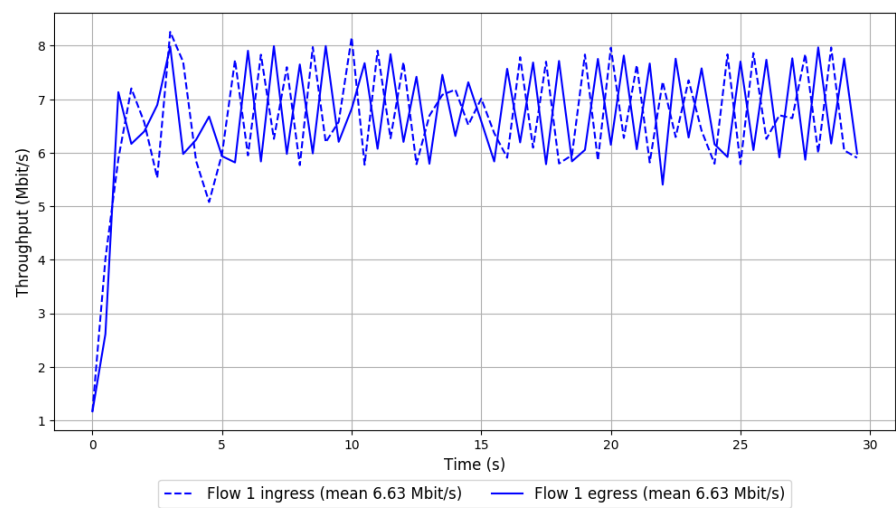
-- Flow 1:

Average throughput: 6.63 Mbit/s

95th percentile per-packet one-way delay: 64.327 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-02 12:50:14

End at: 2018-01-02 12:50:44

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.247 ms

Loss rate: 0.50%

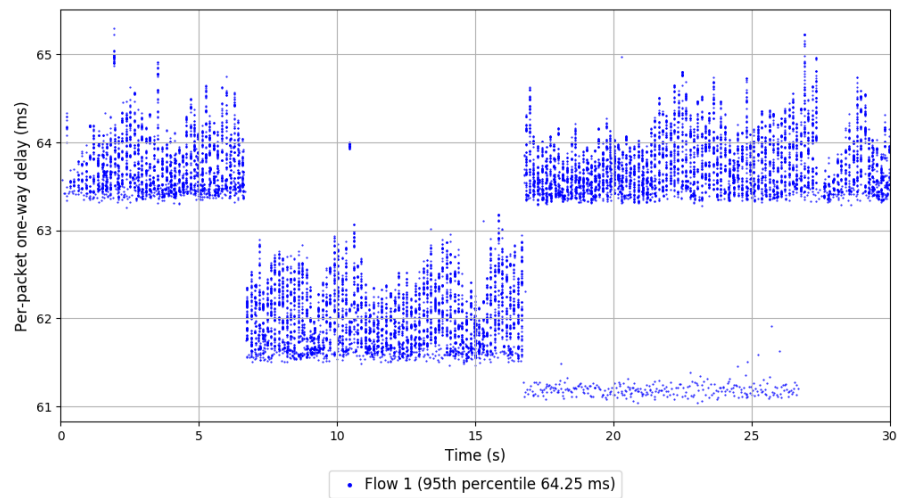
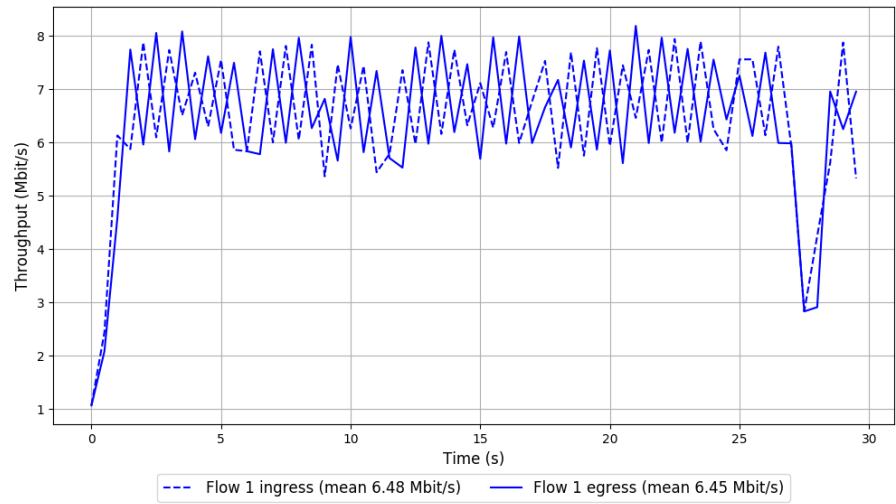
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 64.247 ms

Loss rate: 0.50%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

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

End at: 2018-01-02 13:01:48

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 64.399 ms

Loss rate: 0.04%

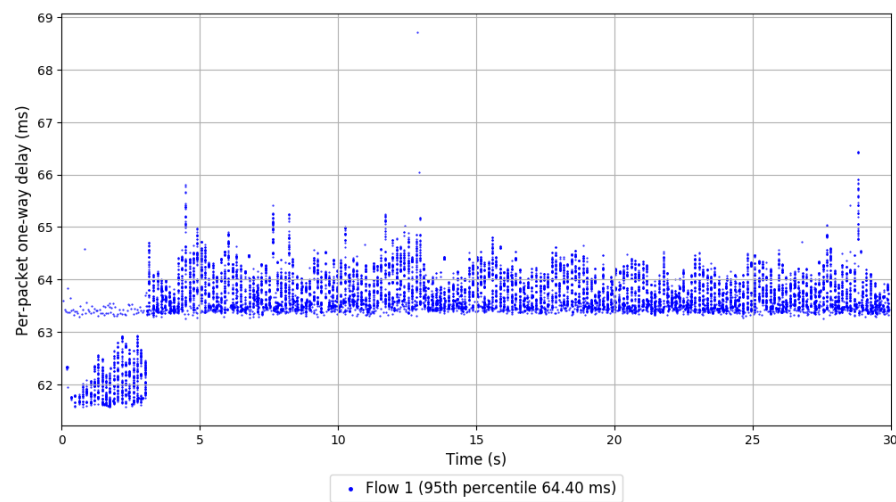
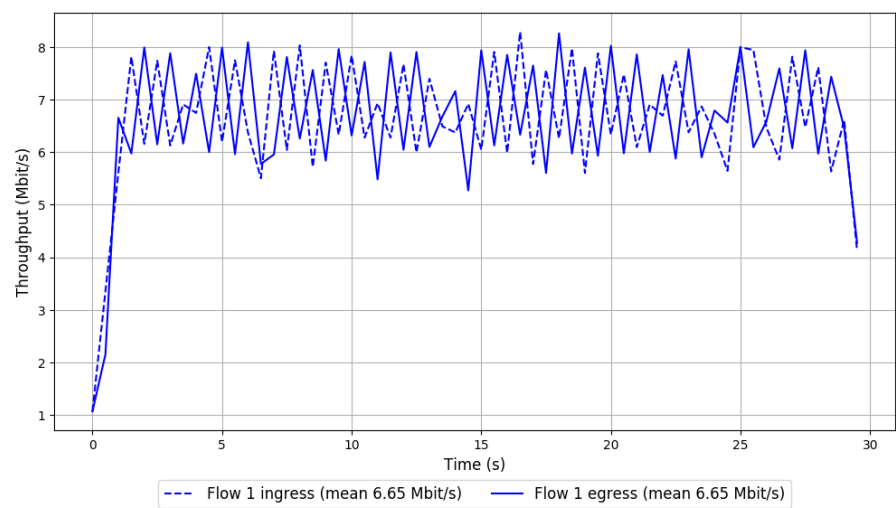
-- Flow 1:

Average throughput: 6.65 Mbit/s

95th percentile per-packet one-way delay: 64.399 ms

Loss rate: 0.04%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-02 13:12:27

End at: 2018-01-02 13:12:57

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.892 ms

Loss rate: 0.00%

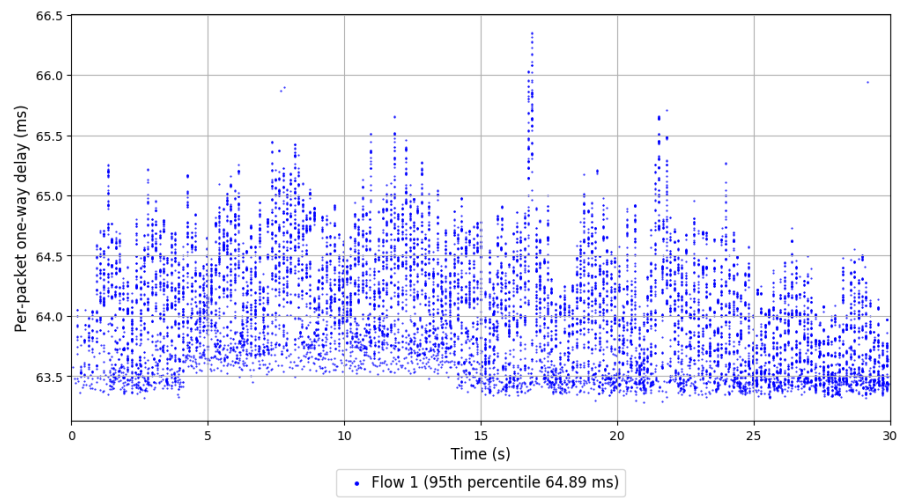
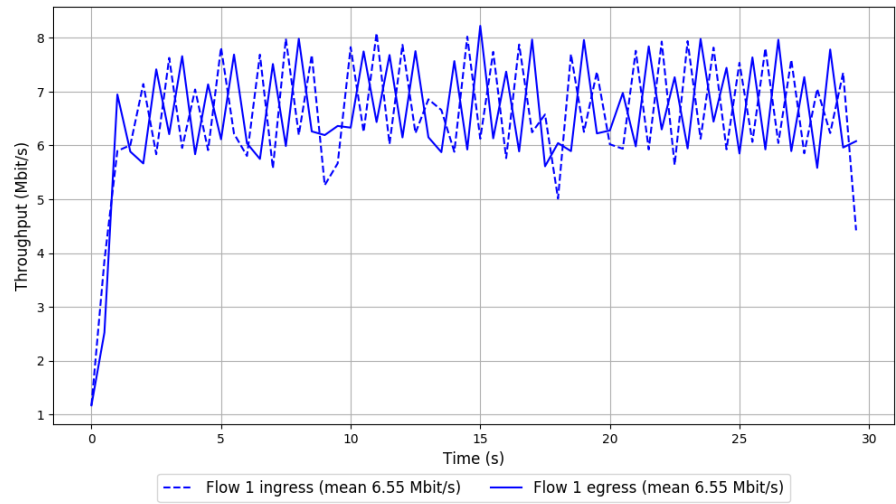
-- Flow 1:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 64.892 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-02 13:24:13

End at: 2018-01-02 13:24:43

Below is generated by plot.py at 2018-01-02 14:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.58 Mbit/s

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

Loss rate: 0.40%

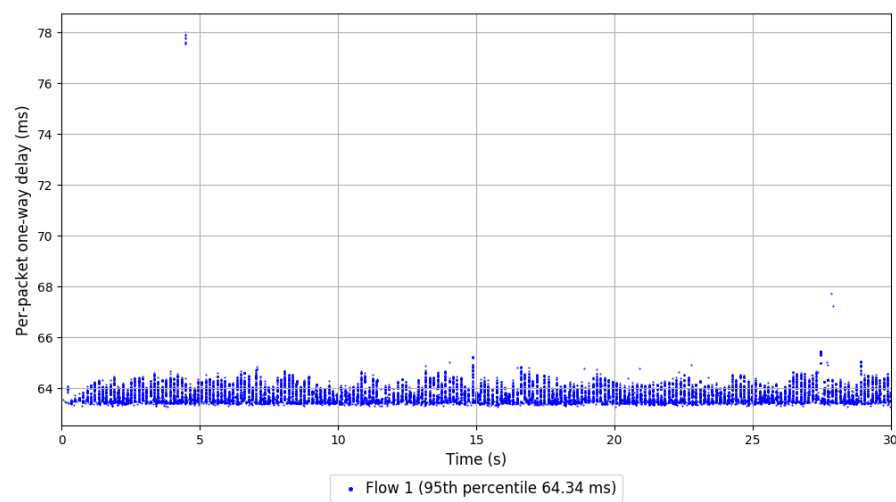
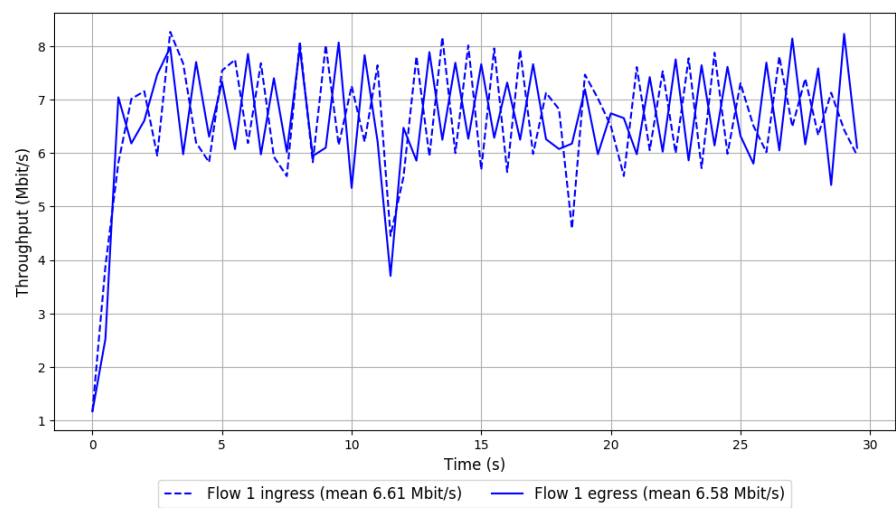
-- Flow 1:

Average throughput: 6.58 Mbit/s

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

Loss rate: 0.40%

Run 10: Report of Sprout — Data Link

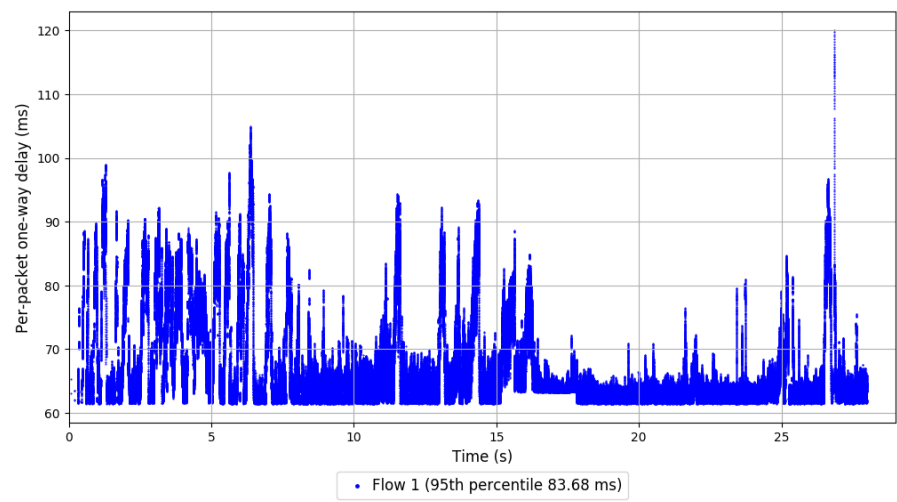
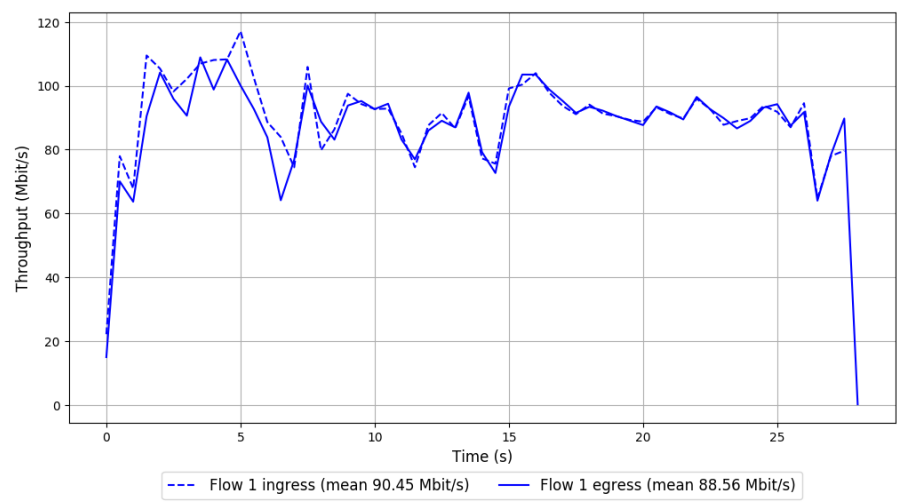


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 11:34:21
End at: 2018-01-02 11:34:51

# Below is generated by plot.py at 2018-01-02 14:29:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.56 Mbit/s
95th percentile per-packet one-way delay: 83.681 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 88.56 Mbit/s
95th percentile per-packet one-way delay: 83.681 ms
Loss rate: 2.09%
```


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

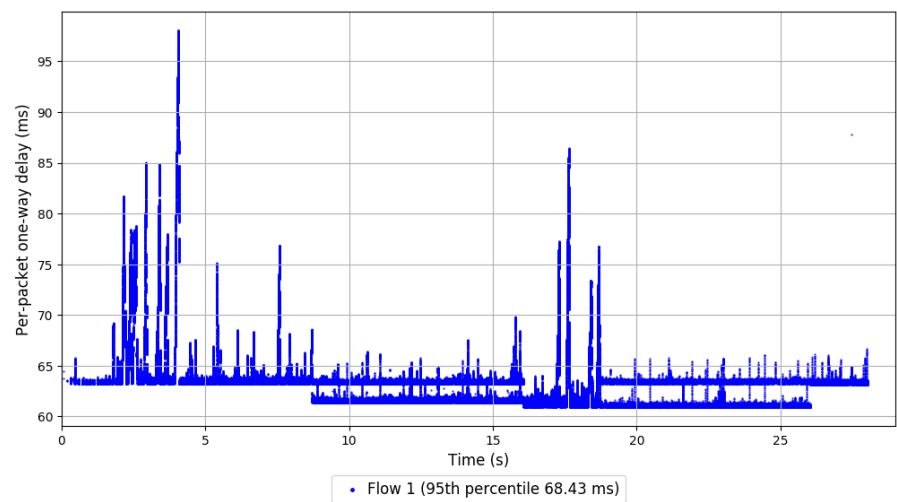
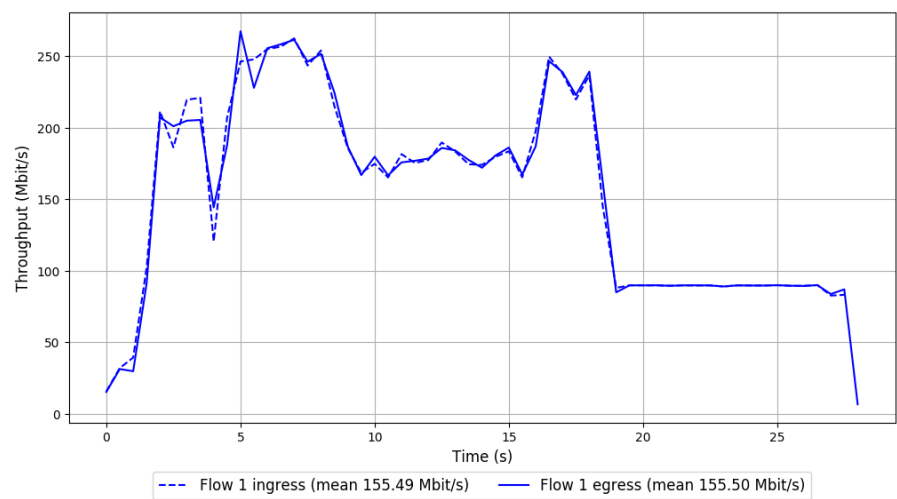


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 11:45:50
End at: 2018-01-02 11:46:20

# Below is generated by plot.py at 2018-01-02 14:31:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.50 Mbit/s
95th percentile per-packet one-way delay: 68.434 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 155.50 Mbit/s
95th percentile per-packet one-way delay: 68.434 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 11:57:04

End at: 2018-01-02 11:57:34

Below is generated by plot.py at 2018-01-02 14:32:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.86 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.00%

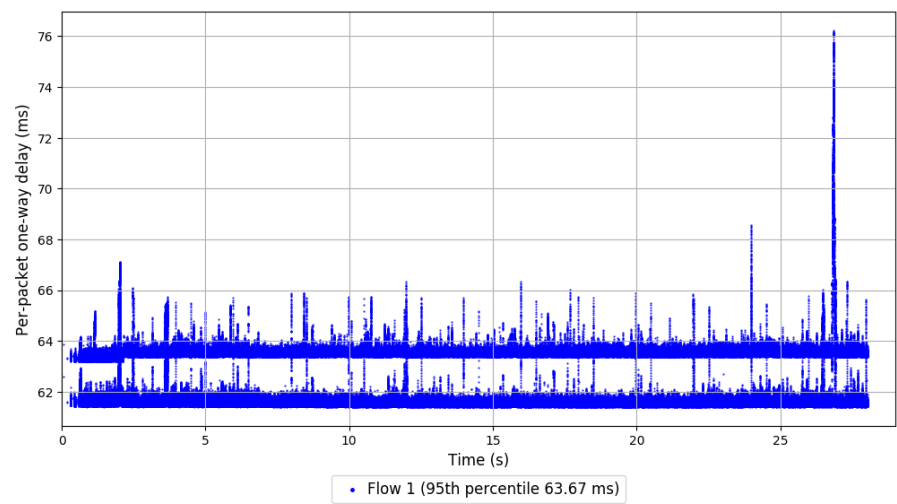
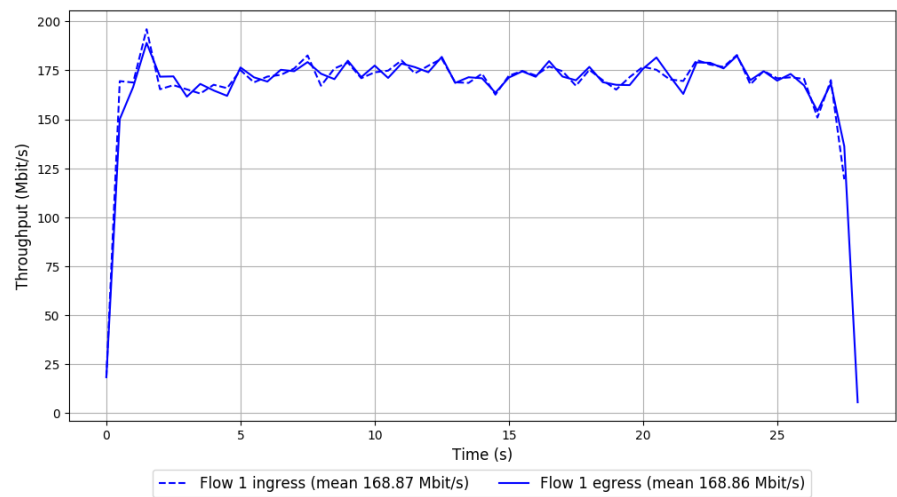
-- Flow 1:

Average throughput: 168.86 Mbit/s

95th percentile per-packet one-way delay: 63.675 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 12:08:54

End at: 2018-01-02 12:09:24

Below is generated by plot.py at 2018-01-02 14:32:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.60 Mbit/s

95th percentile per-packet one-way delay: 63.381 ms

Loss rate: 0.00%

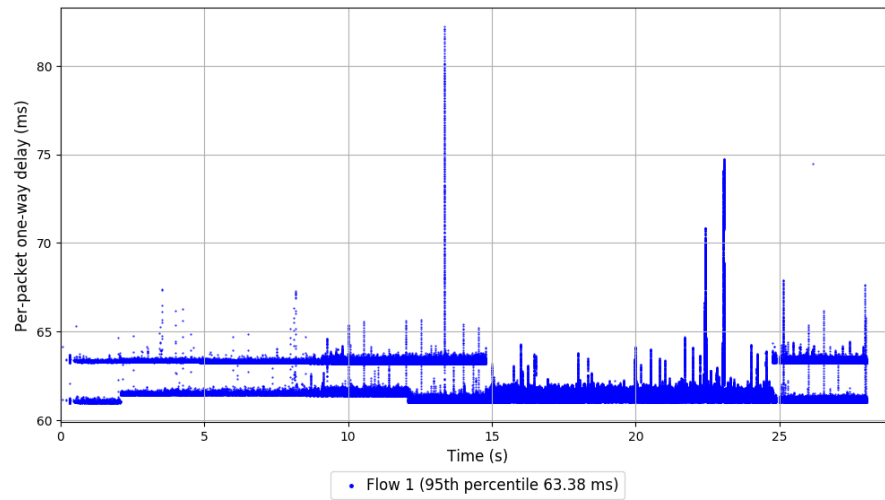
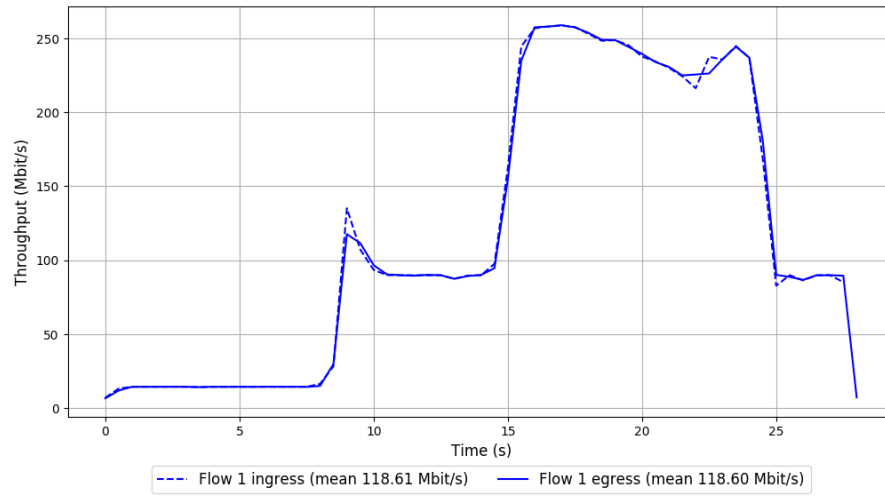
-- Flow 1:

Average throughput: 118.60 Mbit/s

95th percentile per-packet one-way delay: 63.381 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 12:20:08

End at: 2018-01-02 12:20:38

Below is generated by plot.py at 2018-01-02 14:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.80 Mbit/s

95th percentile per-packet one-way delay: 63.539 ms

Loss rate: 0.00%

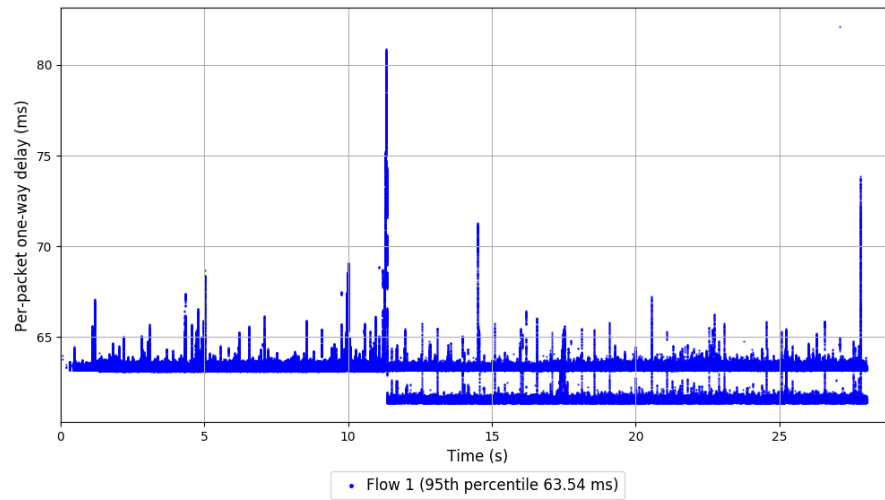
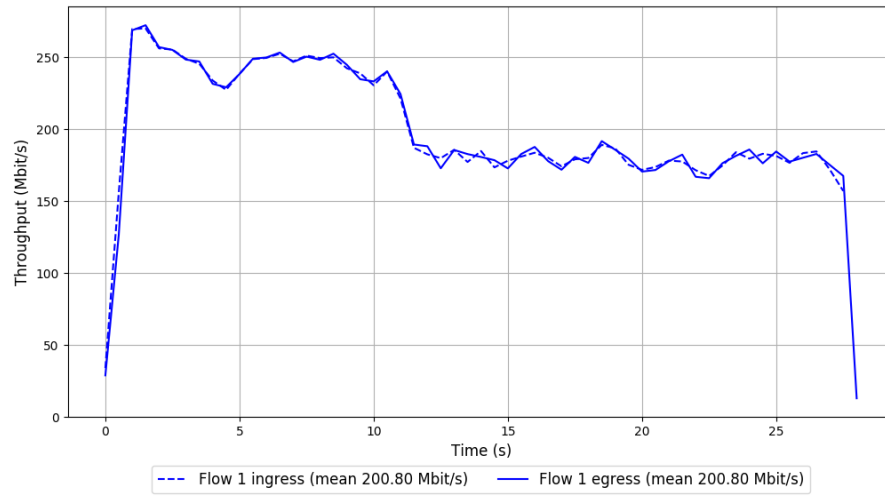
-- Flow 1:

Average throughput: 200.80 Mbit/s

95th percentile per-packet one-way delay: 63.539 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 12:31:32

End at: 2018-01-02 12:32:02

Below is generated by plot.py at 2018-01-02 14:34:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.76 Mbit/s

95th percentile per-packet one-way delay: 63.513 ms

Loss rate: 0.00%

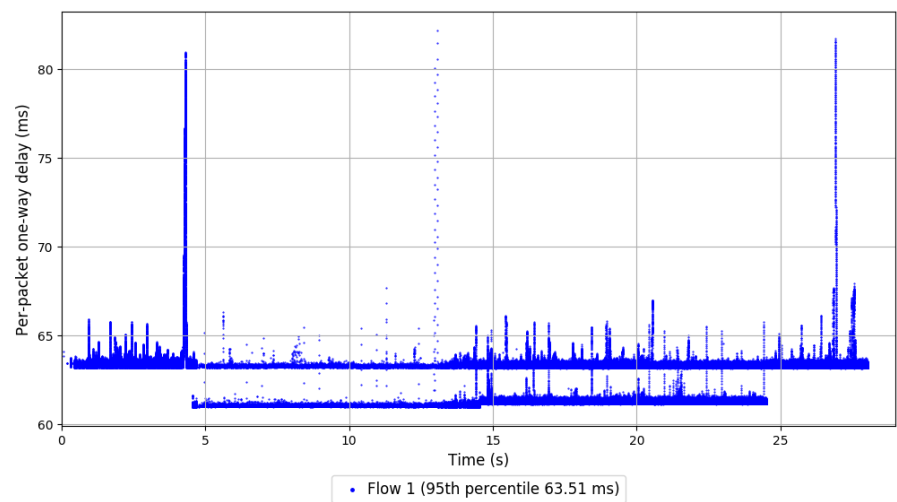
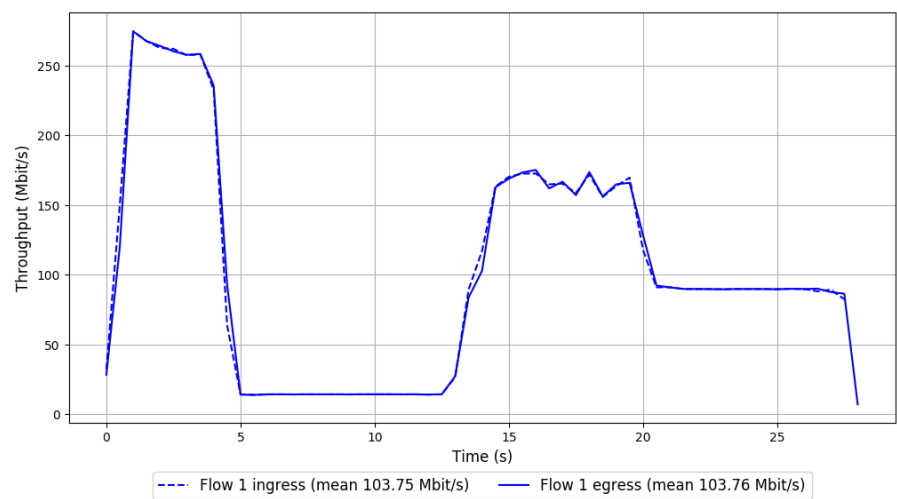
-- Flow 1:

Average throughput: 103.76 Mbit/s

95th percentile per-packet one-way delay: 63.513 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 12:43:13

End at: 2018-01-02 12:43:43

Below is generated by plot.py at 2018-01-02 14:34:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.80 Mbit/s

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

Loss rate: 0.00%

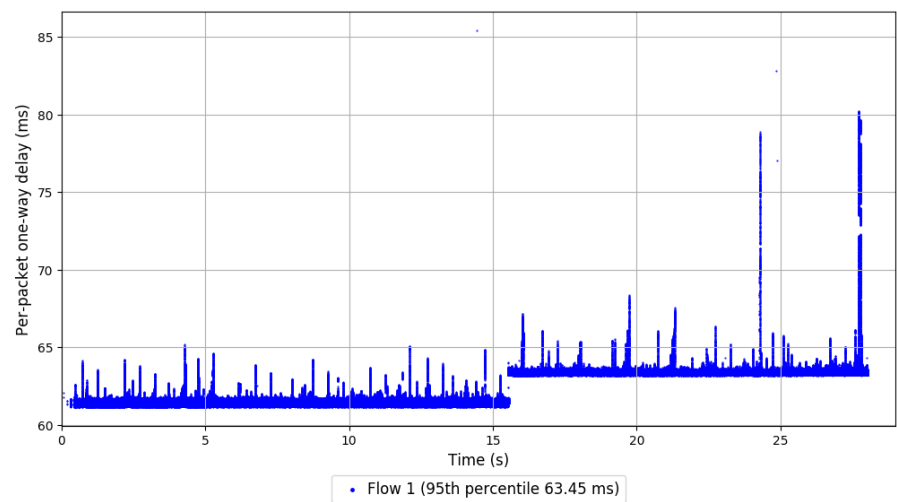
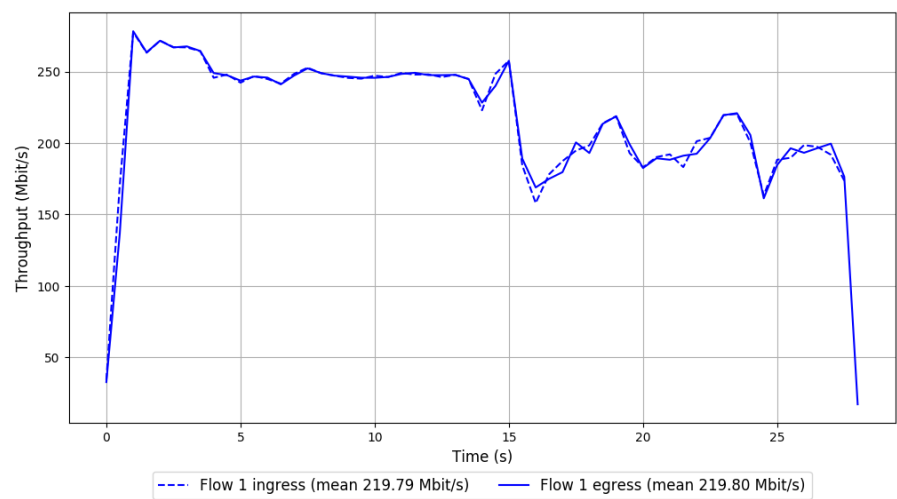
-- Flow 1:

Average throughput: 219.80 Mbit/s

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

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 12:54:27

End at: 2018-01-02 12:54:57

Below is generated by plot.py at 2018-01-02 14:35:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.09 Mbit/s

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

Loss rate: 0.00%

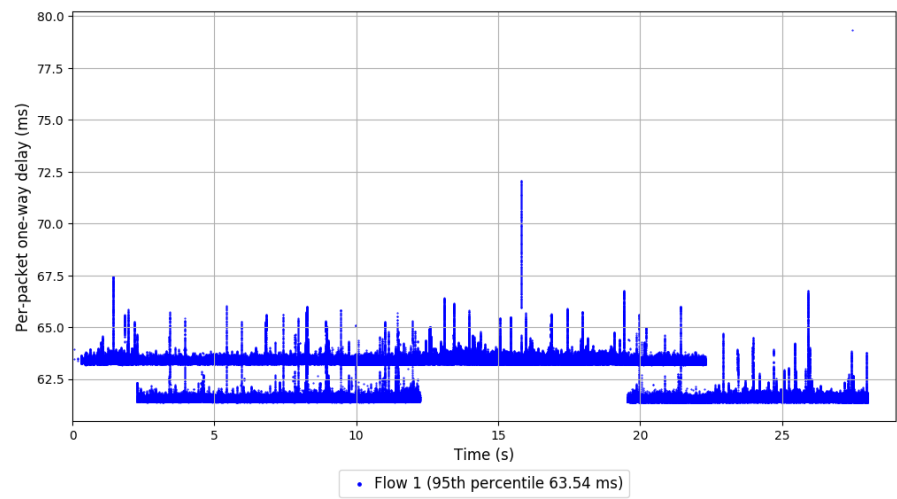
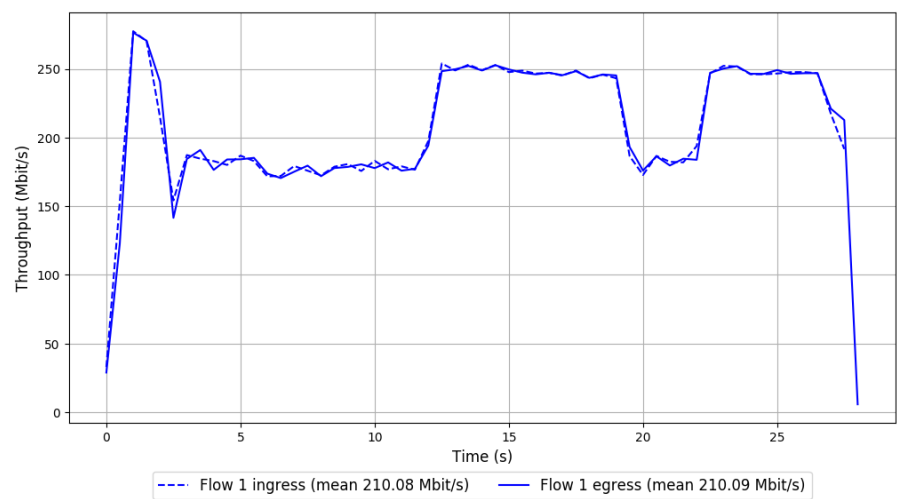
-- Flow 1:

Average throughput: 210.09 Mbit/s

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

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 13:05:38

End at: 2018-01-02 13:06:08

Below is generated by plot.py at 2018-01-02 14:37:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.85 Mbit/s

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

Loss rate: 0.00%

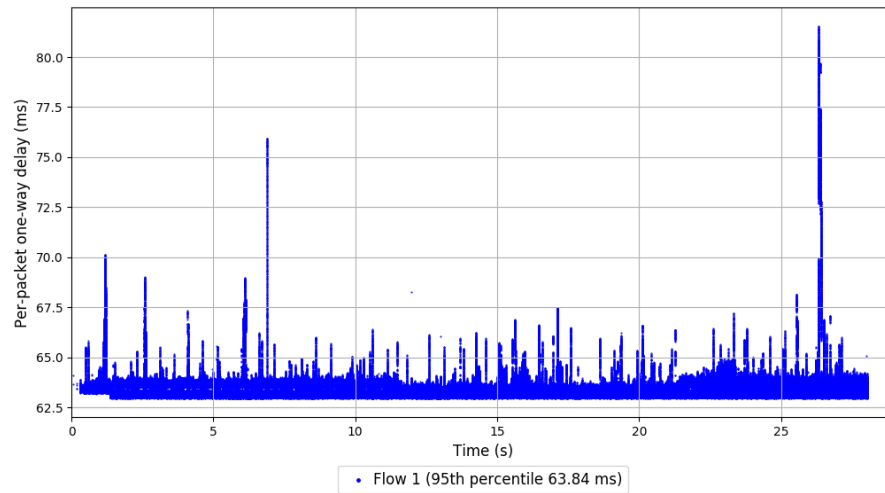
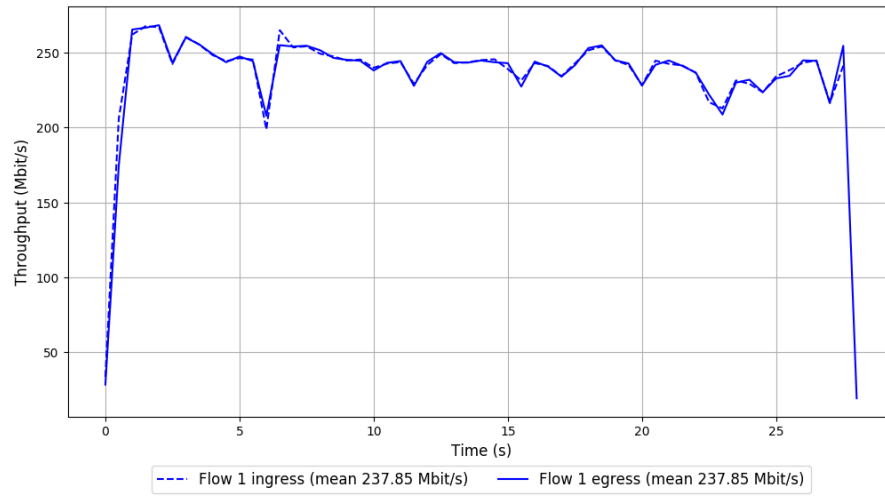
-- Flow 1:

Average throughput: 237.85 Mbit/s

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

Loss rate: 0.00%

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

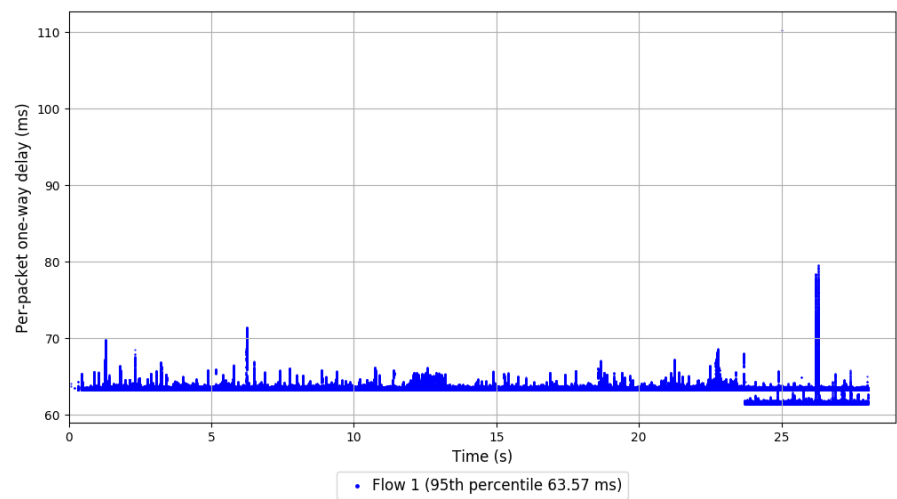
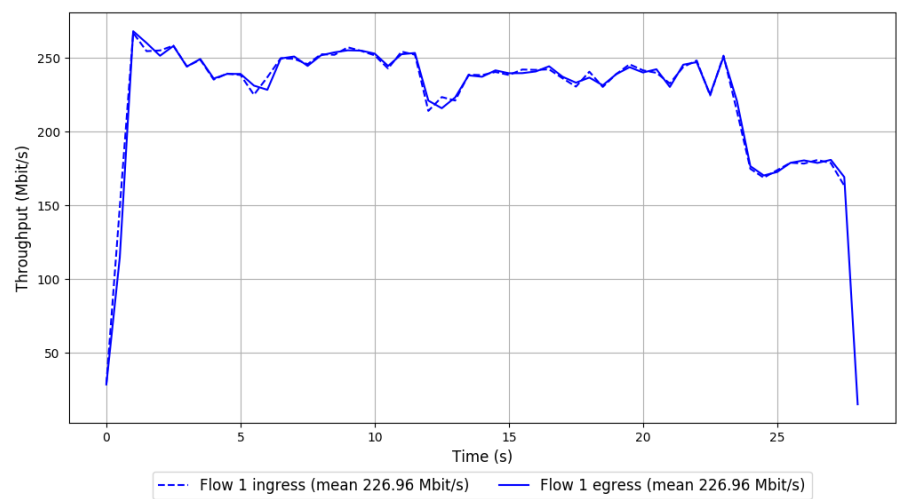


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 13:17:05
End at: 2018-01-02 13:17:35

# Below is generated by plot.py at 2018-01-02 14:38:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.96 Mbit/s
95th percentile per-packet one-way delay: 63.572 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 226.96 Mbit/s
95th percentile per-packet one-way delay: 63.572 ms
Loss rate: 0.00%
```

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

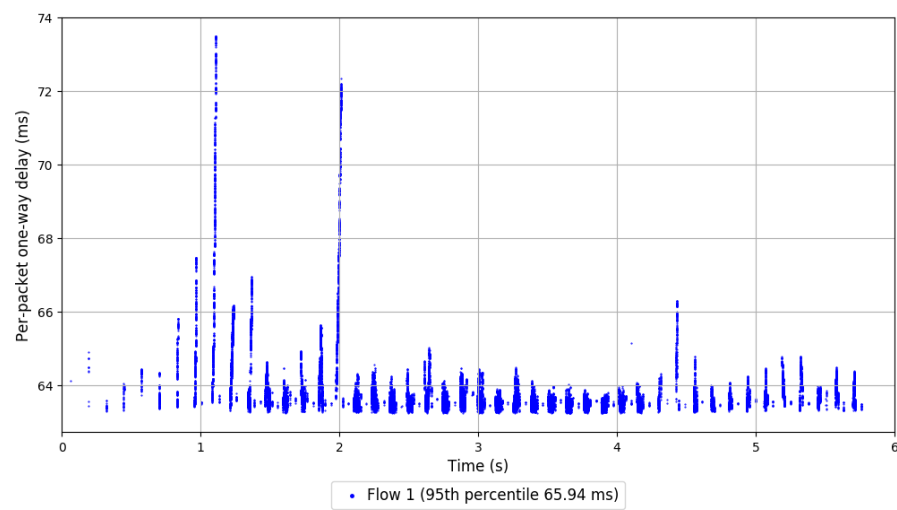
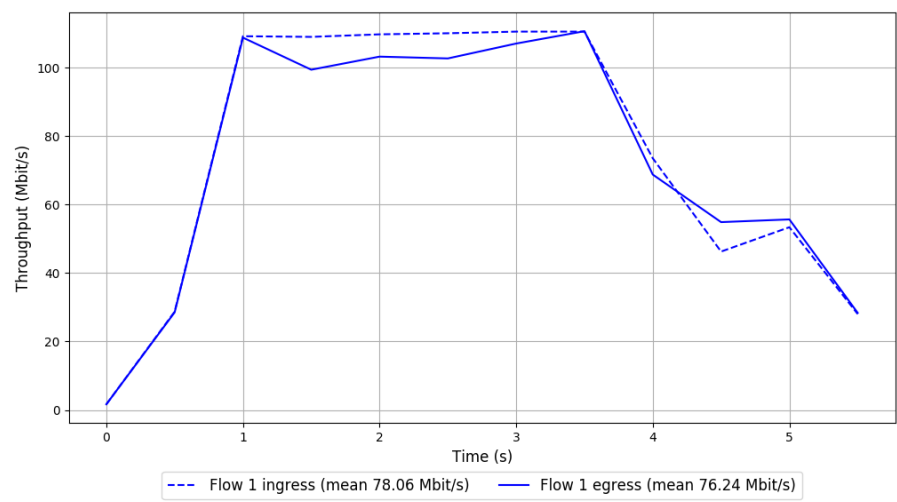


Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 11:35:47

End at: 2018-01-02 11:36:17

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 11:47:22

End at: 2018-01-02 11:47:52

Below is generated by plot.py at 2018-01-02 14:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.44 Mbit/s

95th percentile per-packet one-way delay: 65.713 ms

Loss rate: 0.01%

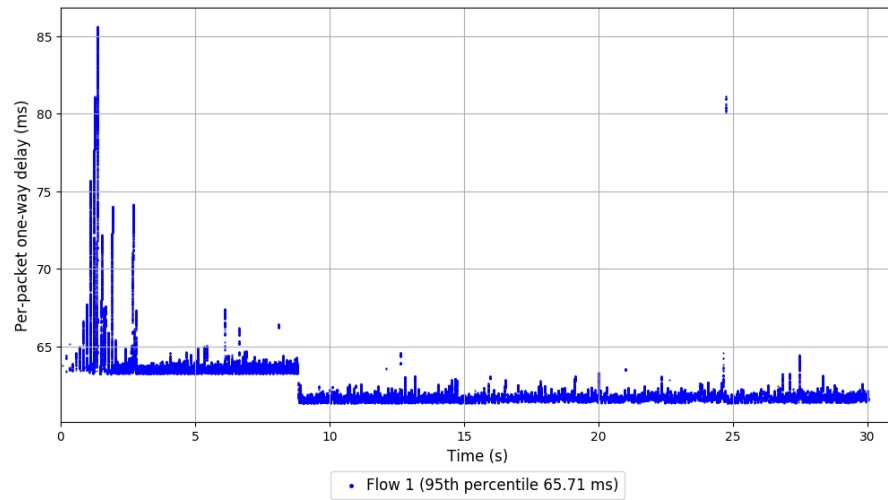
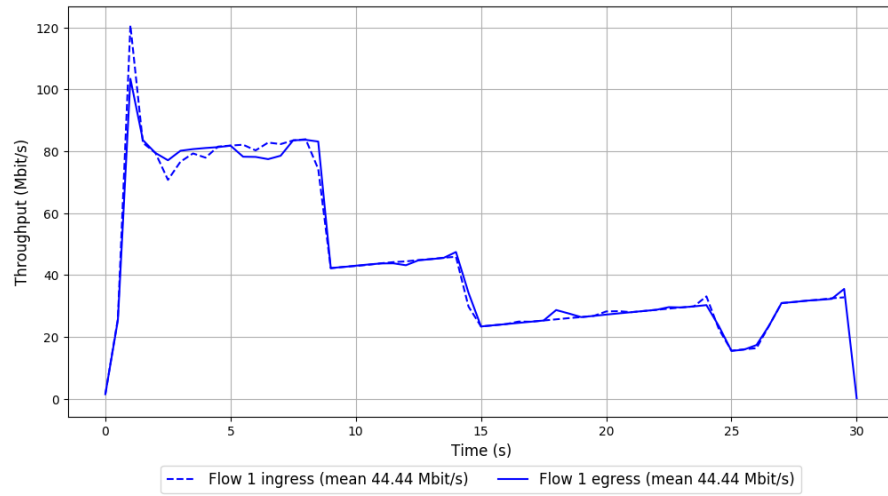
-- Flow 1:

Average throughput: 44.44 Mbit/s

95th percentile per-packet one-way delay: 65.713 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 11:58:36

End at: 2018-01-02 11:59:06

Below is generated by plot.py at 2018-01-02 14:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.05 Mbit/s

95th percentile per-packet one-way delay: 64.308 ms

Loss rate: 0.00%

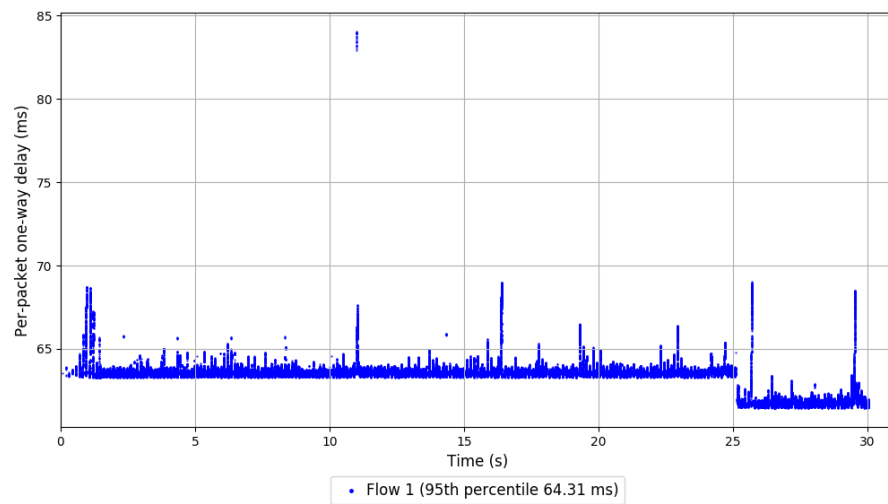
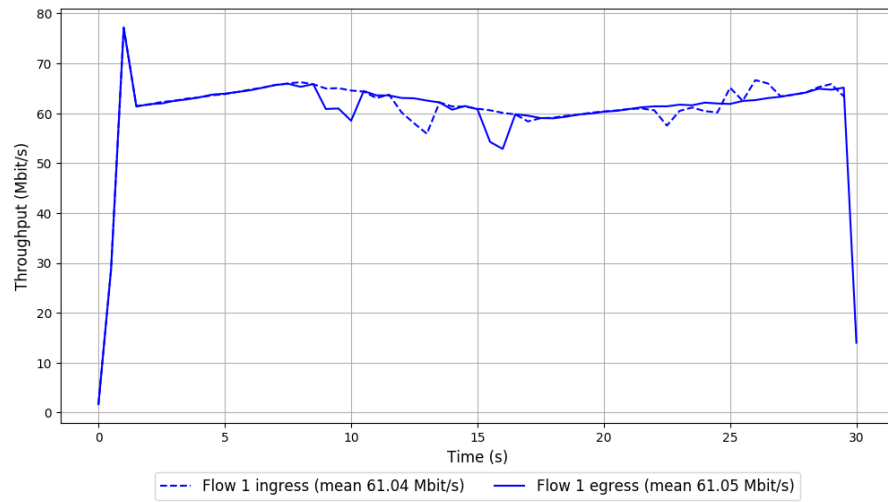
-- Flow 1:

Average throughput: 61.05 Mbit/s

95th percentile per-packet one-way delay: 64.308 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 12:10:24

End at: 2018-01-02 12:10:54

Below is generated by plot.py at 2018-01-02 14:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 65.670 ms

Loss rate: 0.30%

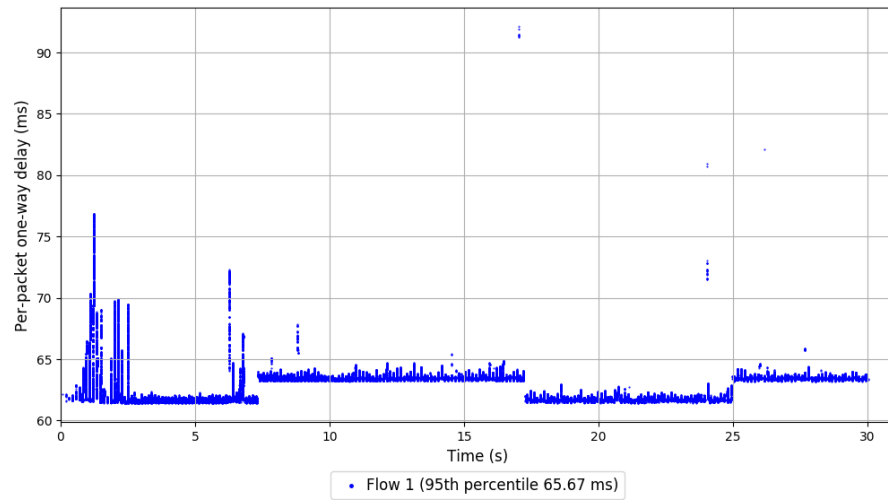
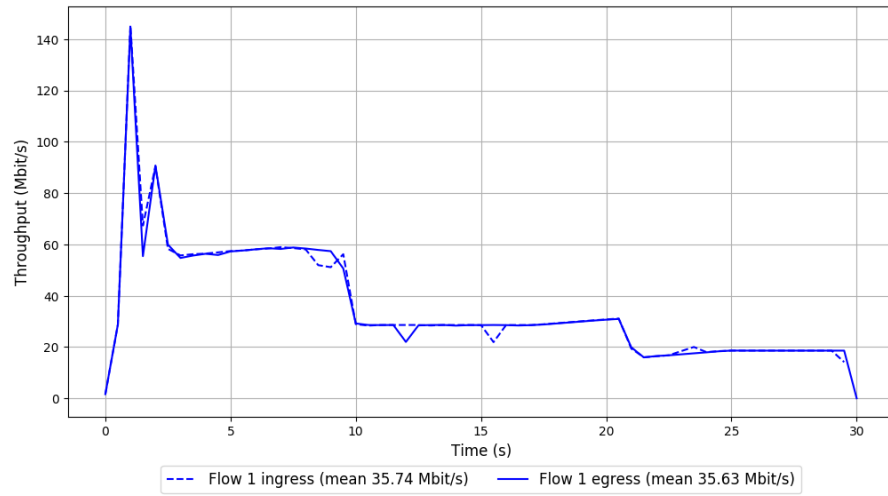
-- Flow 1:

Average throughput: 35.63 Mbit/s

95th percentile per-packet one-way delay: 65.670 ms

Loss rate: 0.30%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 12:21:43

End at: 2018-01-02 12:22:13

Below is generated by plot.py at 2018-01-02 14:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.65 Mbit/s

95th percentile per-packet one-way delay: 64.439 ms

Loss rate: 0.00%

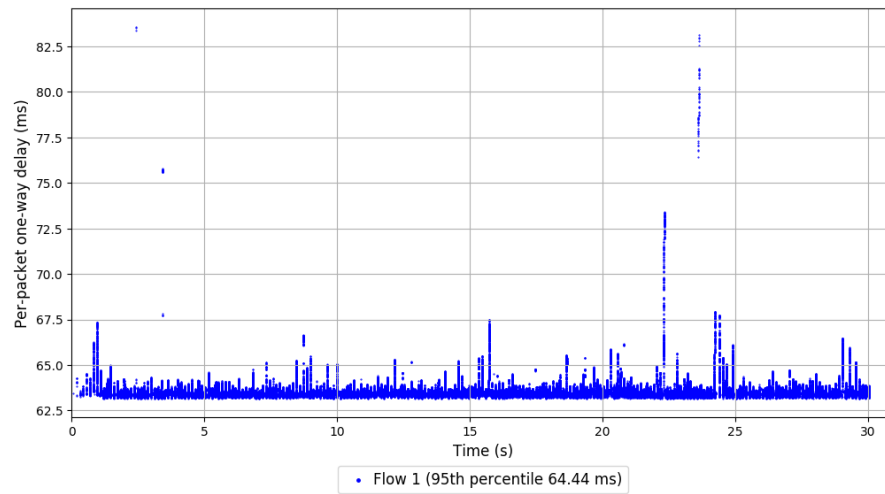
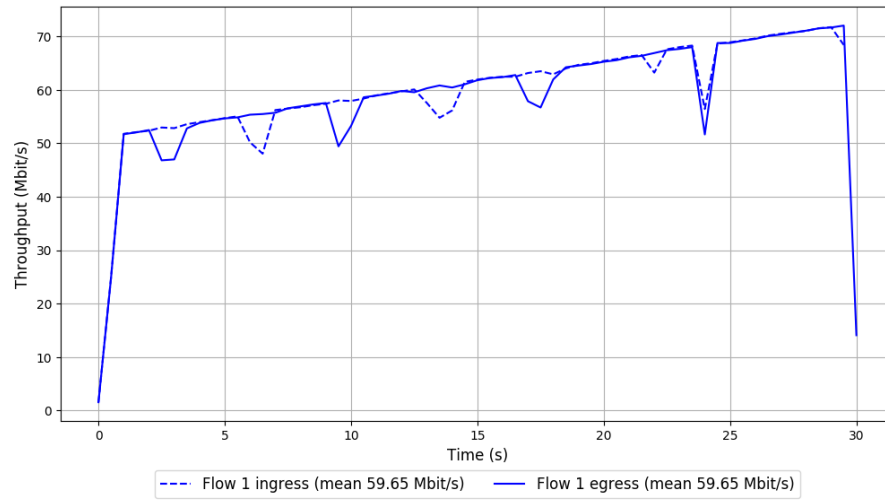
-- Flow 1:

Average throughput: 59.65 Mbit/s

95th percentile per-packet one-way delay: 64.439 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 12:33:00

End at: 2018-01-02 12:33:30

Below is generated by plot.py at 2018-01-02 14:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.74 Mbit/s

95th percentile per-packet one-way delay: 64.610 ms

Loss rate: 0.00%

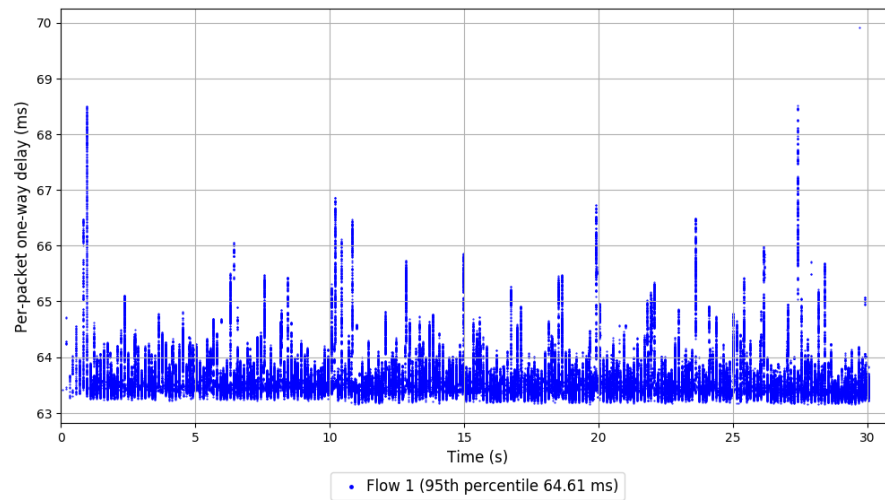
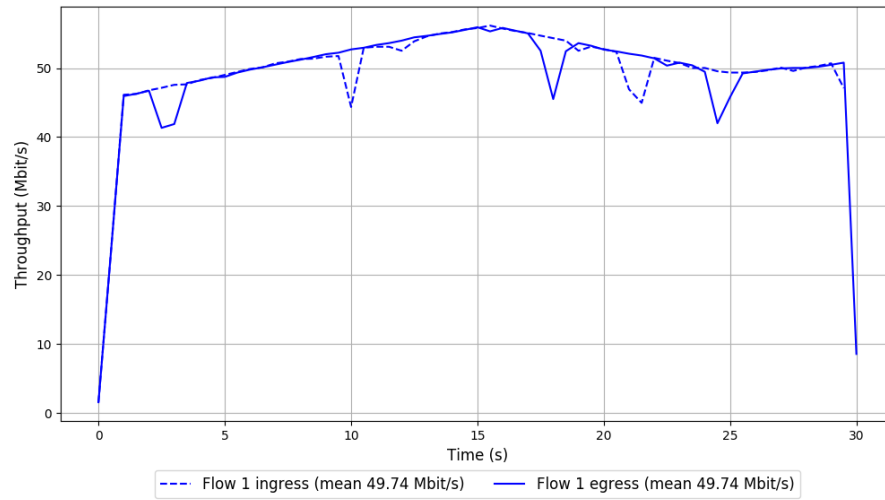
-- Flow 1:

Average throughput: 49.74 Mbit/s

95th percentile per-packet one-way delay: 64.610 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 12:44:53

End at: 2018-01-02 12:45:23

Below is generated by plot.py at 2018-01-02 14:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.36 Mbit/s

95th percentile per-packet one-way delay: 64.211 ms

Loss rate: 0.06%

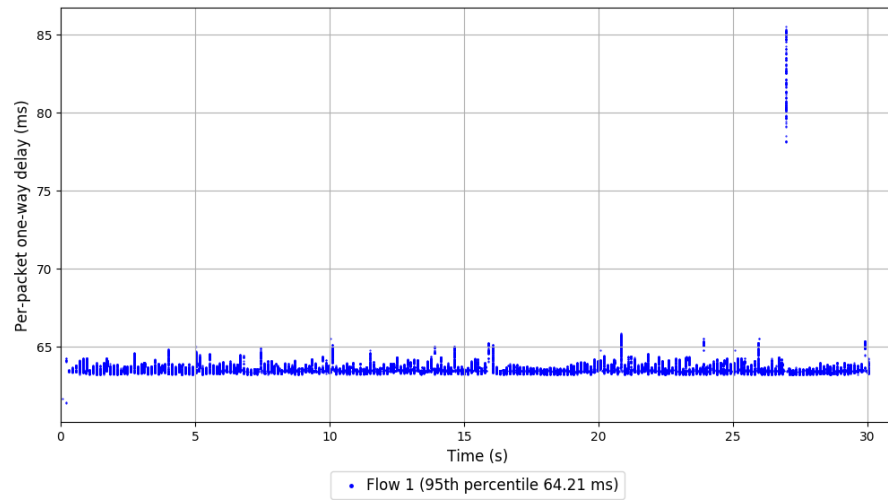
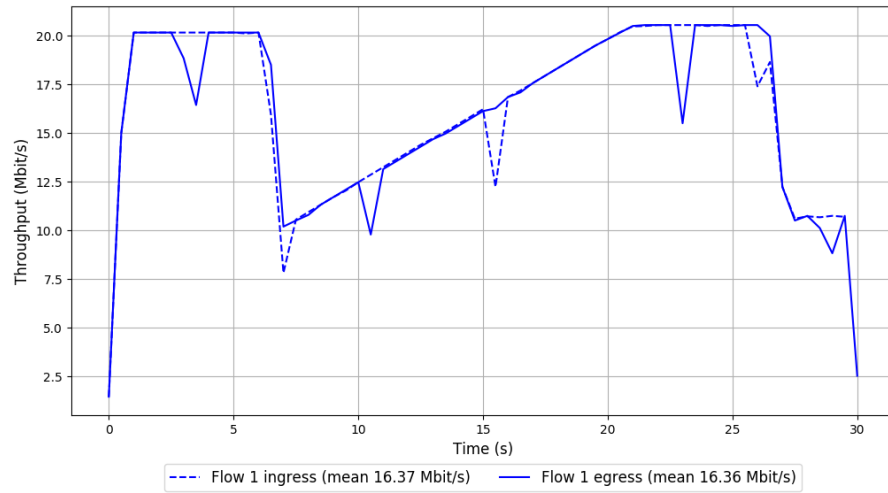
-- Flow 1:

Average throughput: 16.36 Mbit/s

95th percentile per-packet one-way delay: 64.211 ms

Loss rate: 0.06%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-02 12:56:03

End at: 2018-01-02 12:56:33

Below is generated by plot.py at 2018-01-02 14:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 62.853 ms

Loss rate: 0.00%

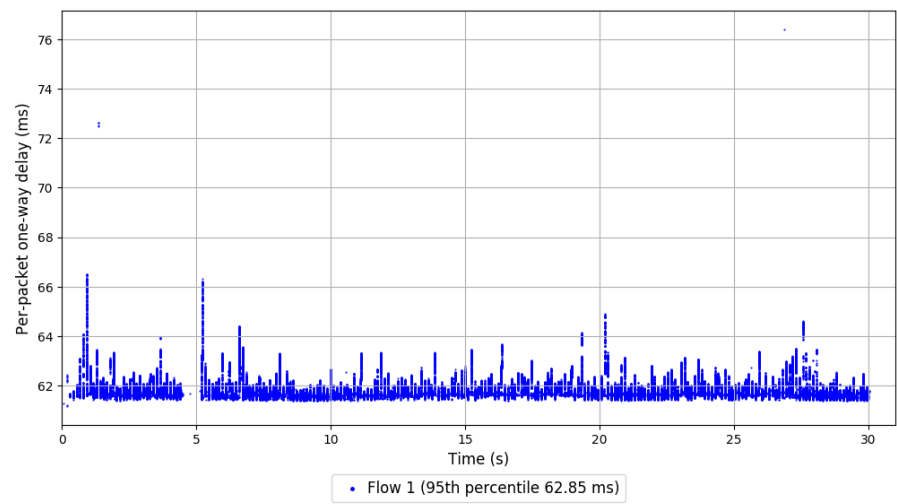
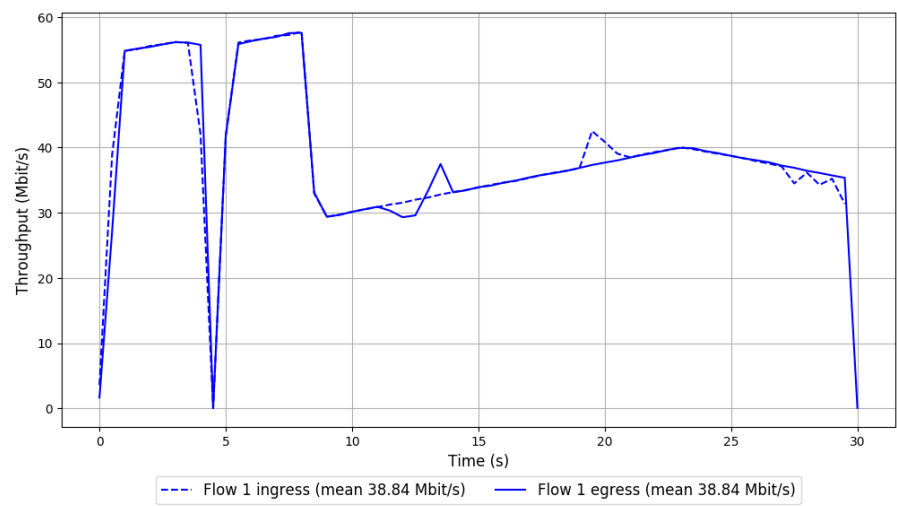
-- Flow 1:

Average throughput: 38.84 Mbit/s

95th percentile per-packet one-way delay: 62.853 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 13:07:17

End at: 2018-01-02 13:07:48

Below is generated by plot.py at 2018-01-02 14:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.76 Mbit/s

95th percentile per-packet one-way delay: 64.230 ms

Loss rate: 0.07%

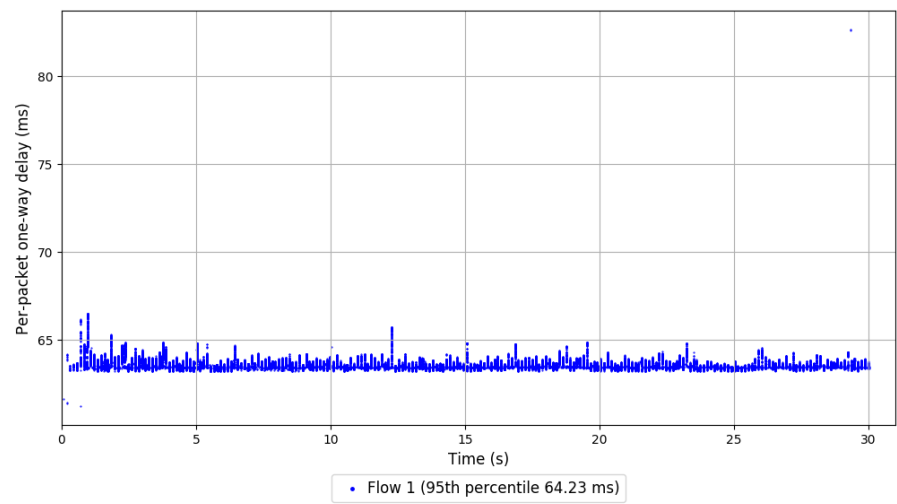
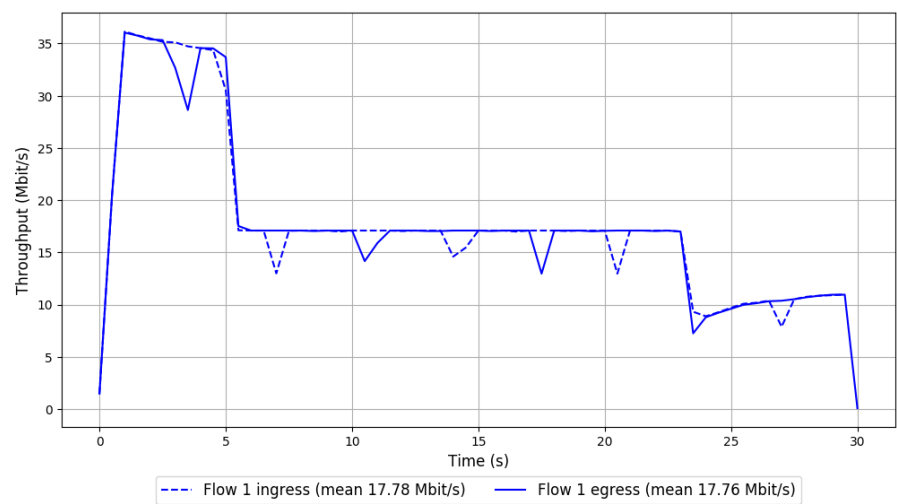
-- Flow 1:

Average throughput: 17.76 Mbit/s

95th percentile per-packet one-way delay: 64.230 ms

Loss rate: 0.07%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 13:18:44

End at: 2018-01-02 13:19:14

Below is generated by plot.py at 2018-01-02 14:38:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.43 Mbit/s

95th percentile per-packet one-way delay: 72.778 ms

Loss rate: 0.00%

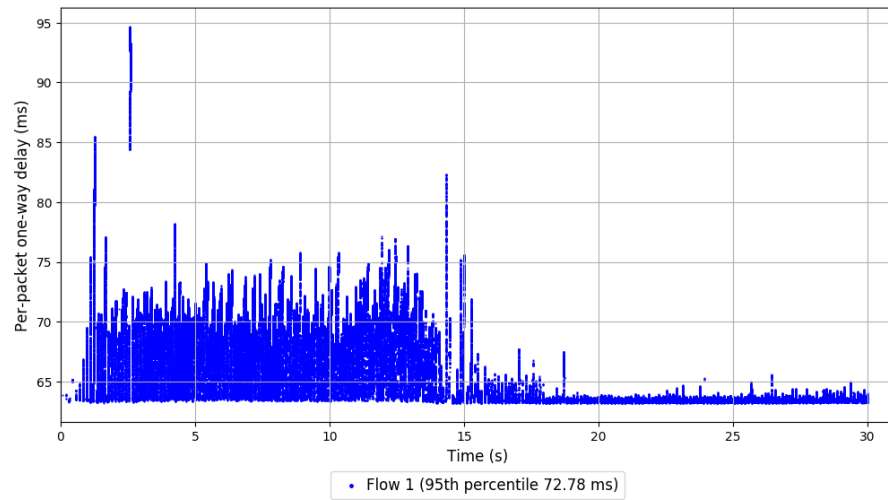
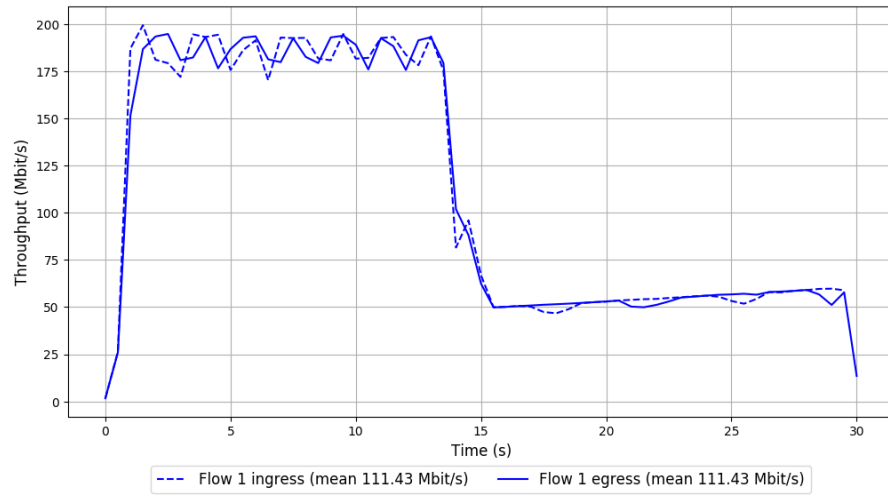
-- Flow 1:

Average throughput: 111.43 Mbit/s

95th percentile per-packet one-way delay: 72.778 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

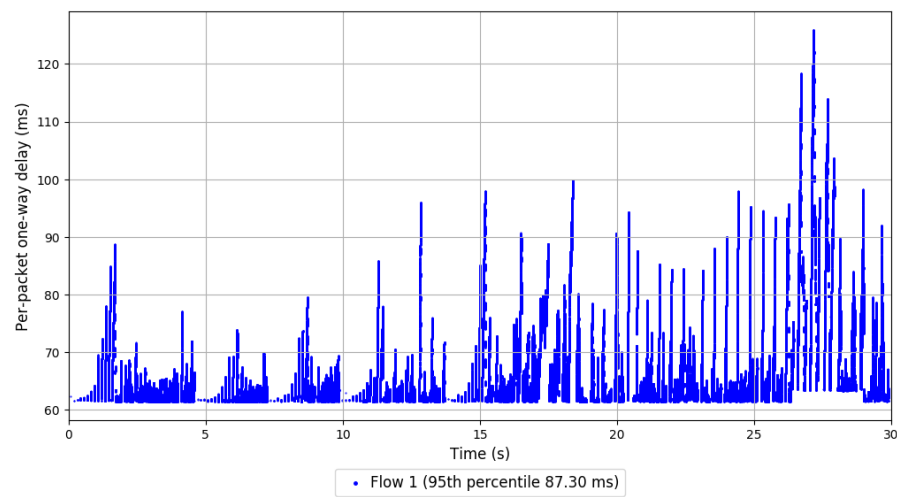
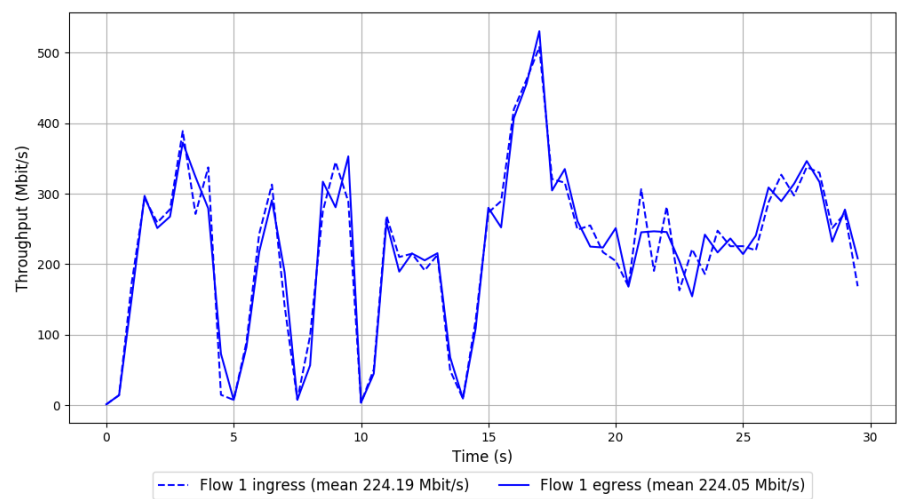


```
Run 1: Statistics of Verus

Start at: 2018-01-02 11:40:22
End at: 2018-01-02 11:40:52

# Below is generated by plot.py at 2018-01-02 14:38:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.05 Mbit/s
95th percentile per-packet one-way delay: 87.302 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 224.05 Mbit/s
95th percentile per-packet one-way delay: 87.302 ms
Loss rate: 0.06%
```


Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 11:51:31

End at: 2018-01-02 11:52:01

Below is generated by plot.py at 2018-01-02 14:38:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.89 Mbit/s

95th percentile per-packet one-way delay: 89.332 ms

Loss rate: 0.07%

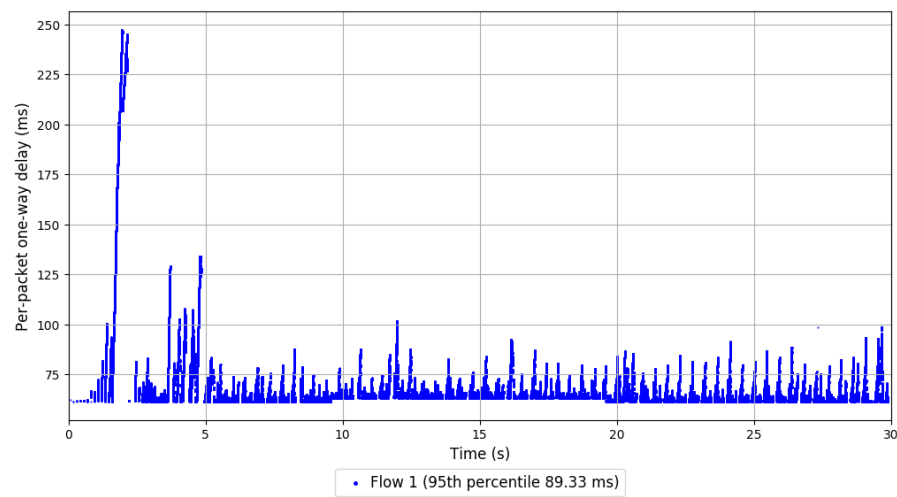
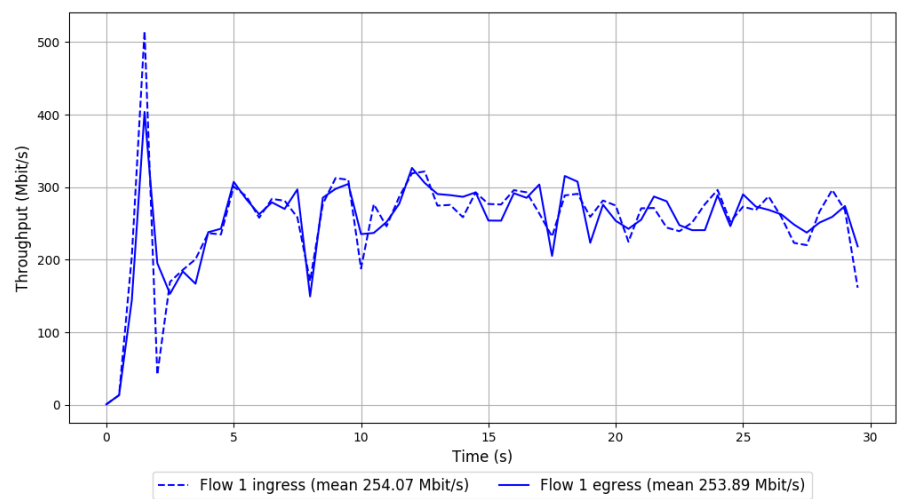
-- Flow 1:

Average throughput: 253.89 Mbit/s

95th percentile per-packet one-way delay: 89.332 ms

Loss rate: 0.07%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 12:03:15

End at: 2018-01-02 12:03:45

Below is generated by plot.py at 2018-01-02 14:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.48 Mbit/s

95th percentile per-packet one-way delay: 243.921 ms

Loss rate: 3.42%

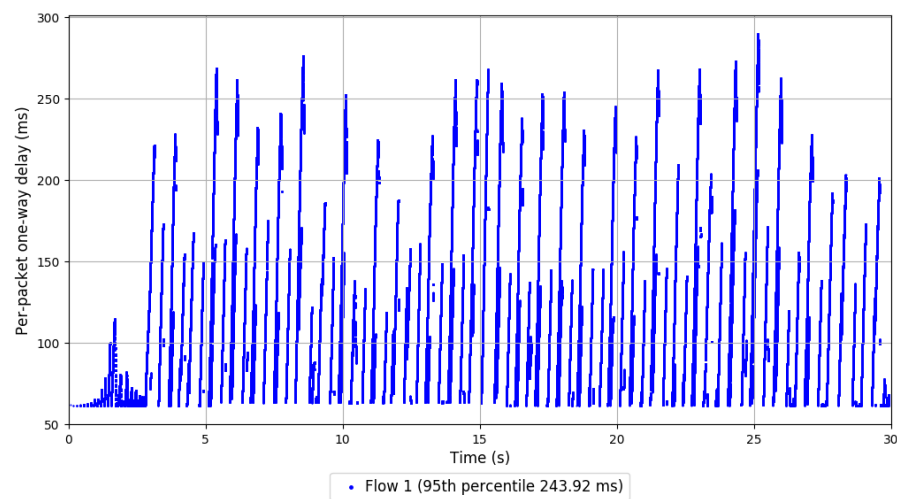
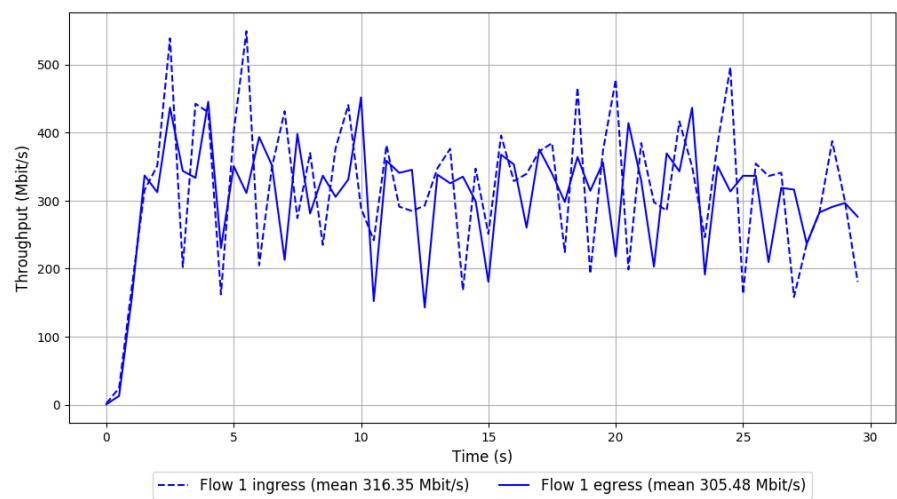
-- Flow 1:

Average throughput: 305.48 Mbit/s

95th percentile per-packet one-way delay: 243.921 ms

Loss rate: 3.42%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-02 12:14:36

End at: 2018-01-02 12:15:06

Below is generated by plot.py at 2018-01-02 14:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.75 Mbit/s

95th percentile per-packet one-way delay: 81.476 ms

Loss rate: 0.01%

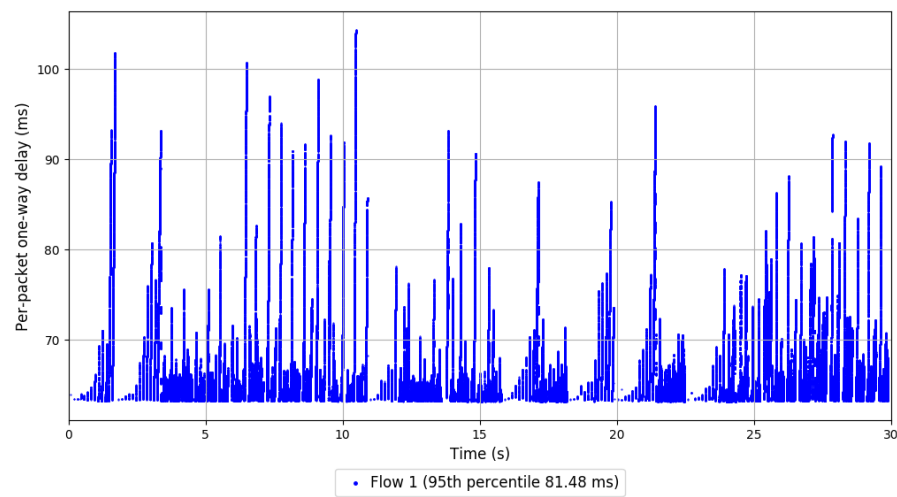
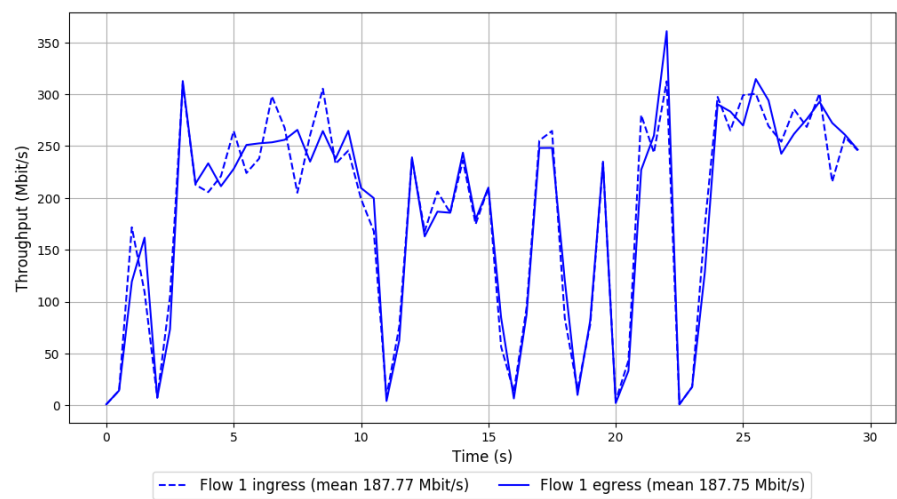
-- Flow 1:

Average throughput: 187.75 Mbit/s

95th percentile per-packet one-way delay: 81.476 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-02 12:26:14

End at: 2018-01-02 12:26:44

Below is generated by plot.py at 2018-01-02 14:40:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.21 Mbit/s

95th percentile per-packet one-way delay: 101.085 ms

Loss rate: 0.00%

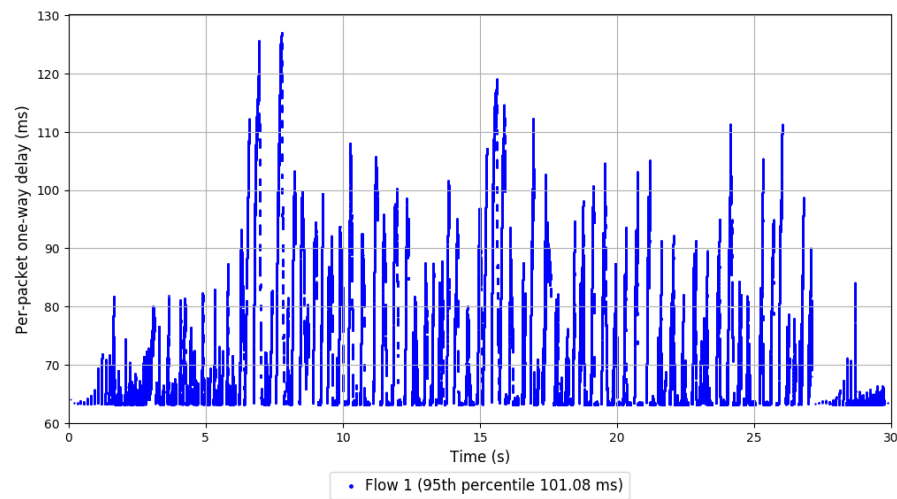
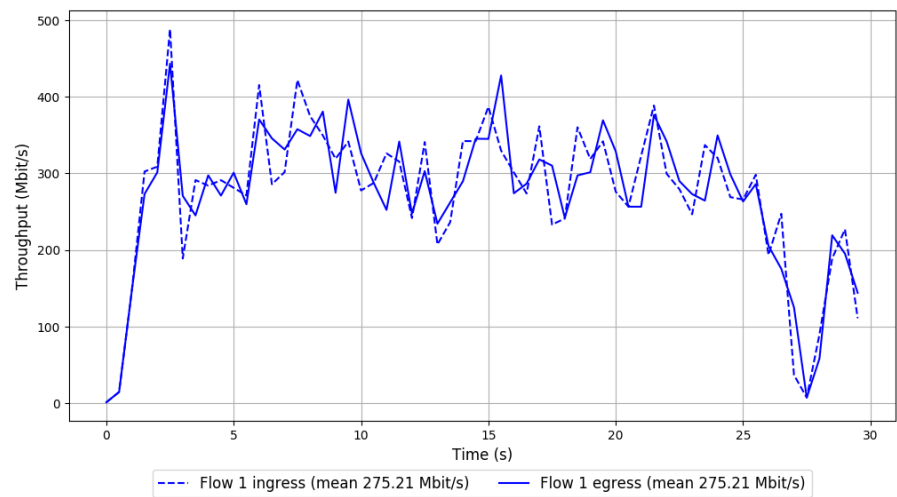
-- Flow 1:

Average throughput: 275.21 Mbit/s

95th percentile per-packet one-way delay: 101.085 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 12:37:40

End at: 2018-01-02 12:38:10

Below is generated by plot.py at 2018-01-02 14:40:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.49 Mbit/s

95th percentile per-packet one-way delay: 115.221 ms

Loss rate: 0.00%

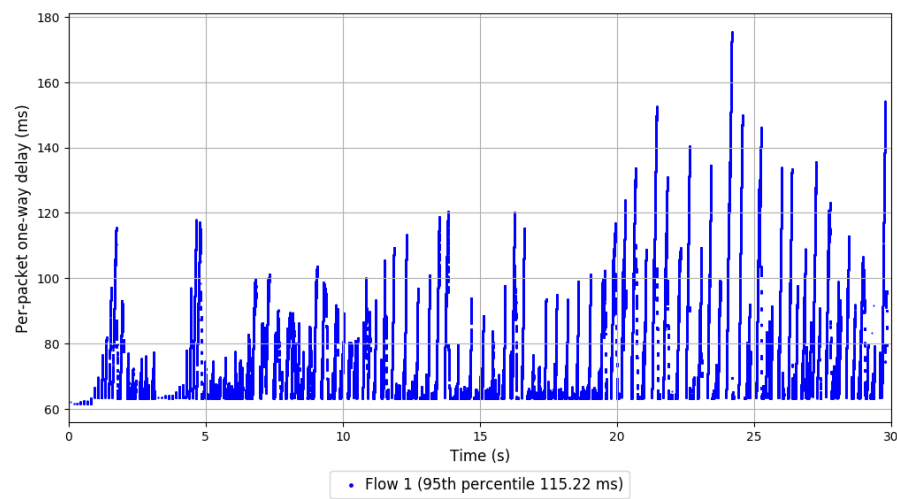
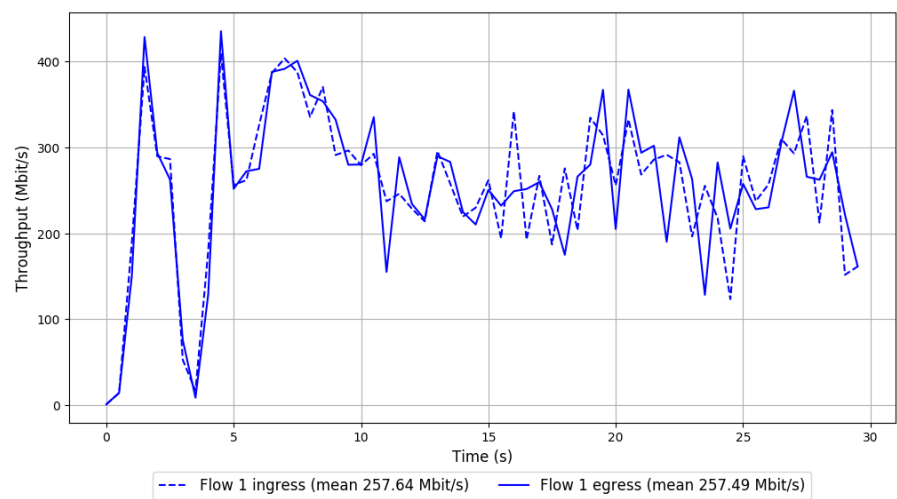
-- Flow 1:

Average throughput: 257.49 Mbit/s

95th percentile per-packet one-way delay: 115.221 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 12:49:19

End at: 2018-01-02 12:49:49

Below is generated by plot.py at 2018-01-02 14:42:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.66 Mbit/s

95th percentile per-packet one-way delay: 124.456 ms

Loss rate: 0.00%

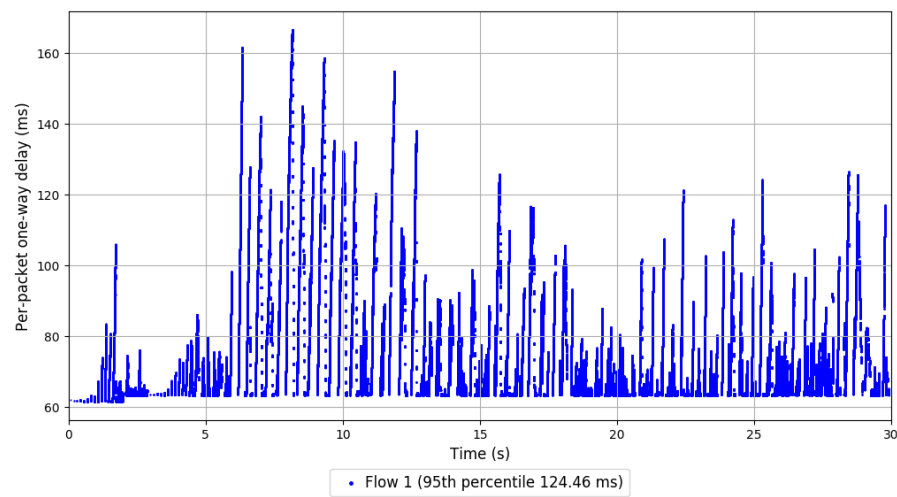
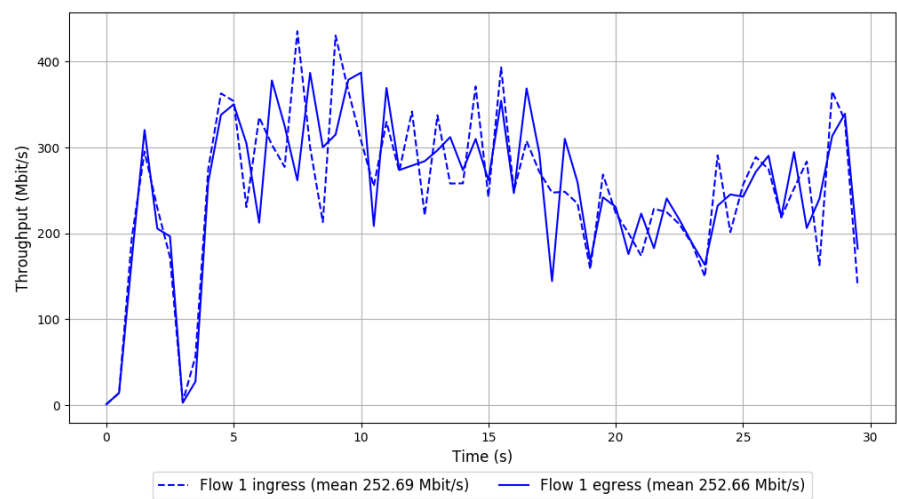
-- Flow 1:

Average throughput: 252.66 Mbit/s

95th percentile per-packet one-way delay: 124.456 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-02 13:00:22

End at: 2018-01-02 13:00:52

Below is generated by plot.py at 2018-01-02 14:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.03 Mbit/s

95th percentile per-packet one-way delay: 87.162 ms

Loss rate: 0.00%

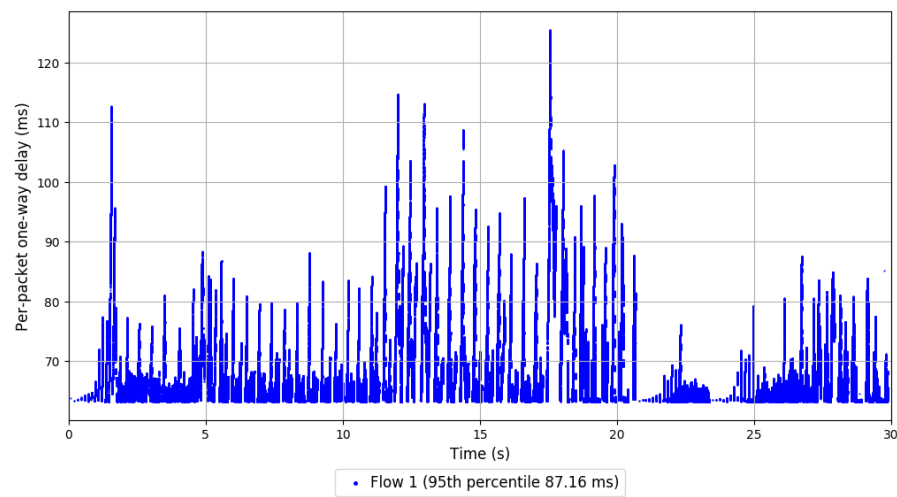
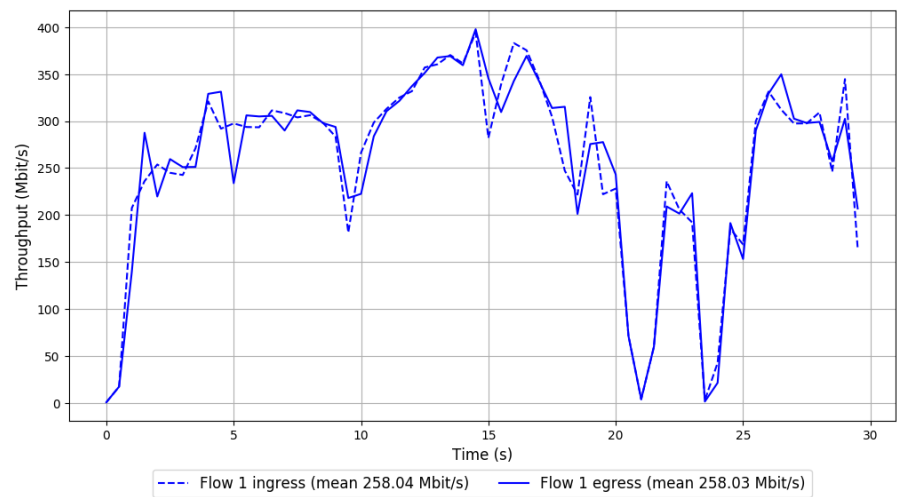
-- Flow 1:

Average throughput: 258.03 Mbit/s

95th percentile per-packet one-way delay: 87.162 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-02 13:11:34

End at: 2018-01-02 13:12:04

Below is generated by plot.py at 2018-01-02 14:42:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.08 Mbit/s

95th percentile per-packet one-way delay: 139.074 ms

Loss rate: 0.08%

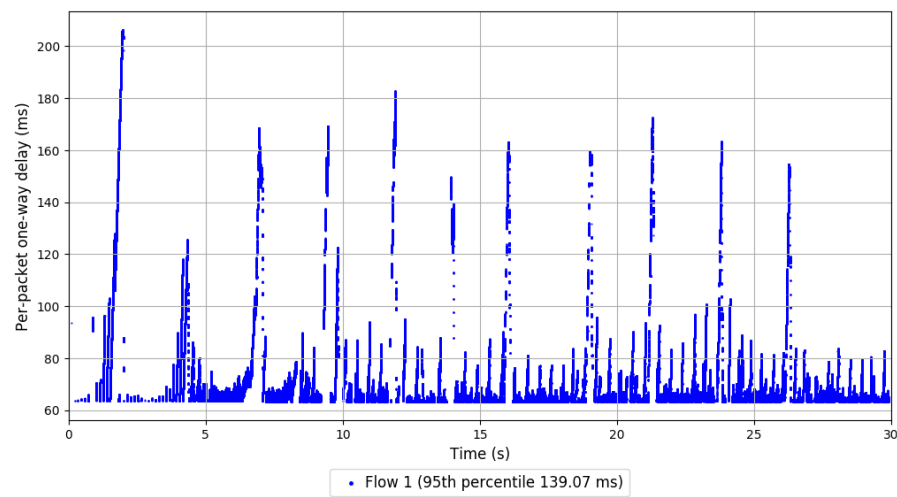
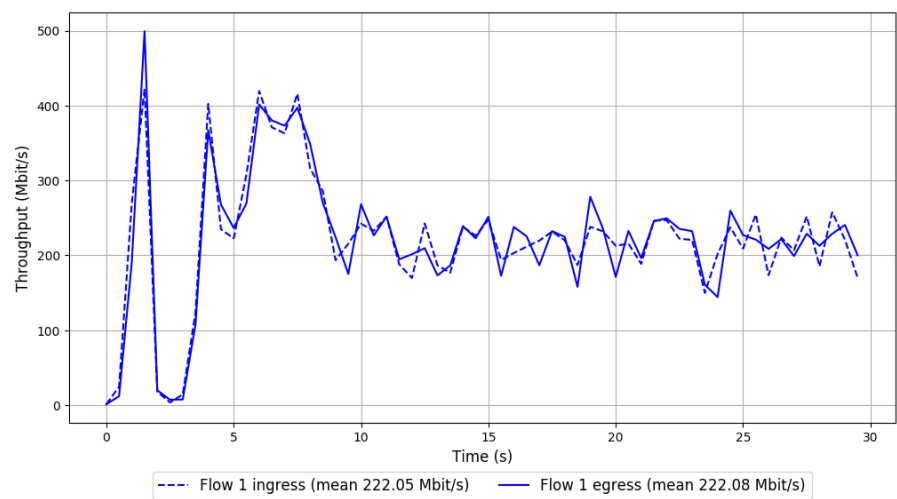
-- Flow 1:

Average throughput: 222.08 Mbit/s

95th percentile per-packet one-way delay: 139.074 ms

Loss rate: 0.08%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 13:23:14

End at: 2018-01-02 13:23:44

Below is generated by plot.py at 2018-01-02 14:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.83 Mbit/s

95th percentile per-packet one-way delay: 210.695 ms

Loss rate: 2.16%

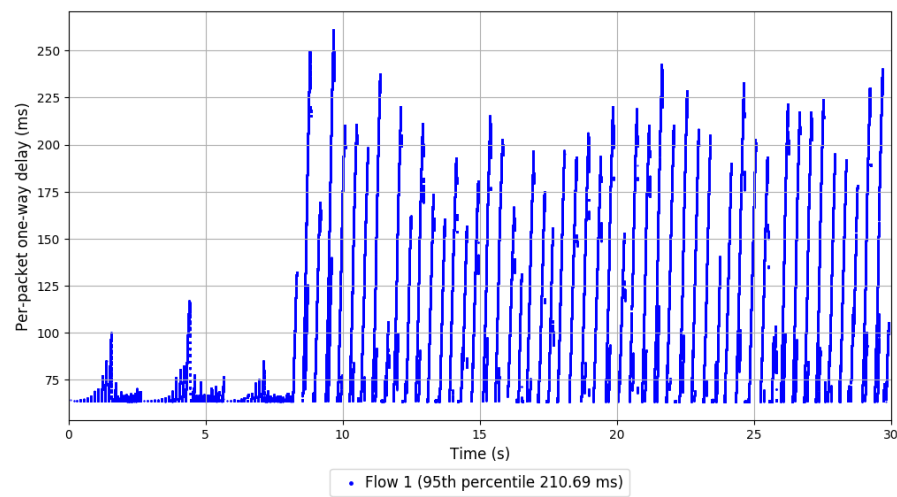
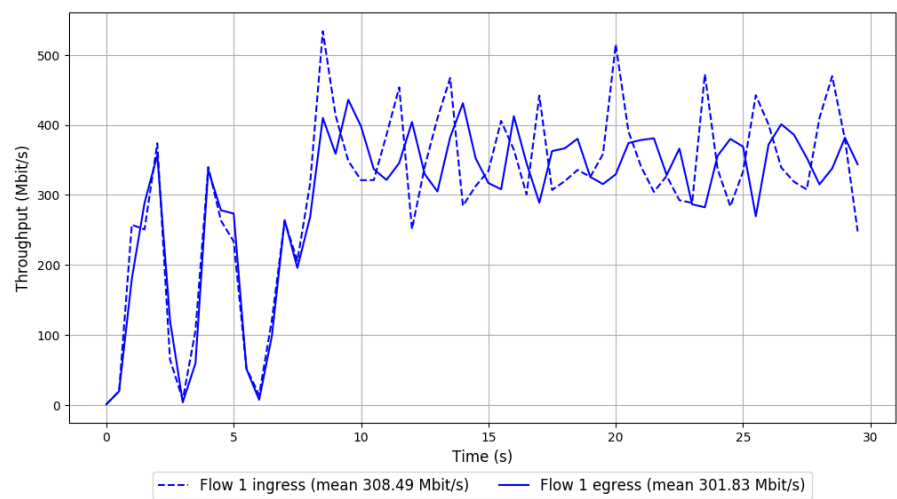
-- Flow 1:

Average throughput: 301.83 Mbit/s

95th percentile per-packet one-way delay: 210.695 ms

Loss rate: 2.16%

Run 10: Report of Verus — Data Link

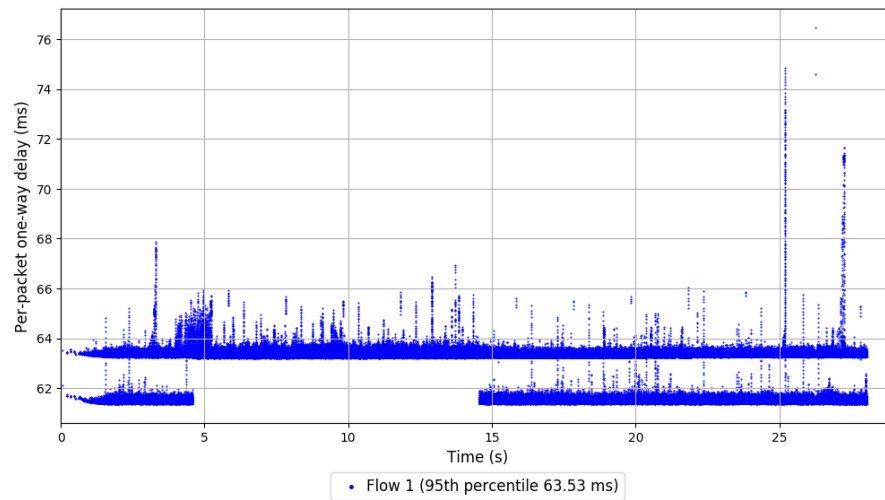
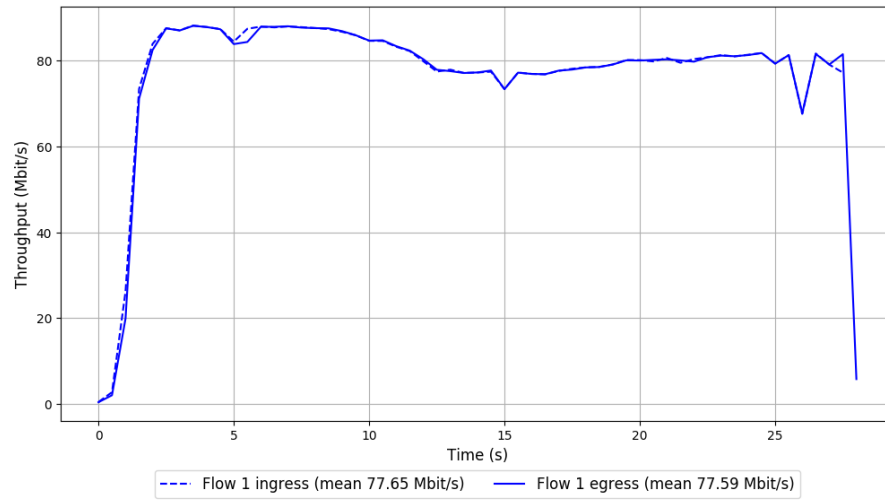


```
Run 1: Statistics of Copa

Start at: 2018-01-02 11:37:04
End at: 2018-01-02 11:37:34

# Below is generated by plot.py at 2018-01-02 14:43:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.59 Mbit/s
95th percentile per-packet one-way delay: 63.530 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 77.59 Mbit/s
95th percentile per-packet one-way delay: 63.530 ms
Loss rate: 0.08%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 11:48:45

End at: 2018-01-02 11:49:15

Below is generated by plot.py at 2018-01-02 14:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.29 Mbit/s

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

Loss rate: 0.00%

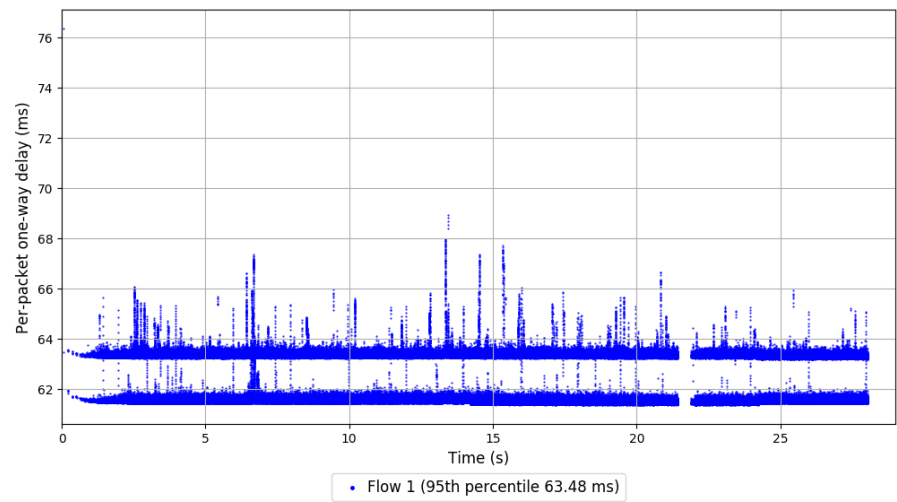
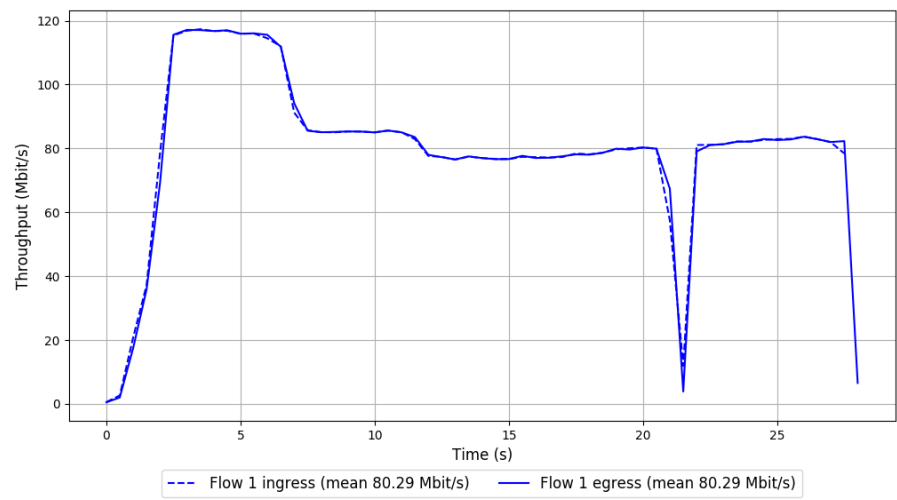
-- Flow 1:

Average throughput: 80.29 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 11:59:58

End at: 2018-01-02 12:00:28

Below is generated by plot.py at 2018-01-02 14:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.02 Mbit/s

95th percentile per-packet one-way delay: 63.434 ms

Loss rate: 0.00%

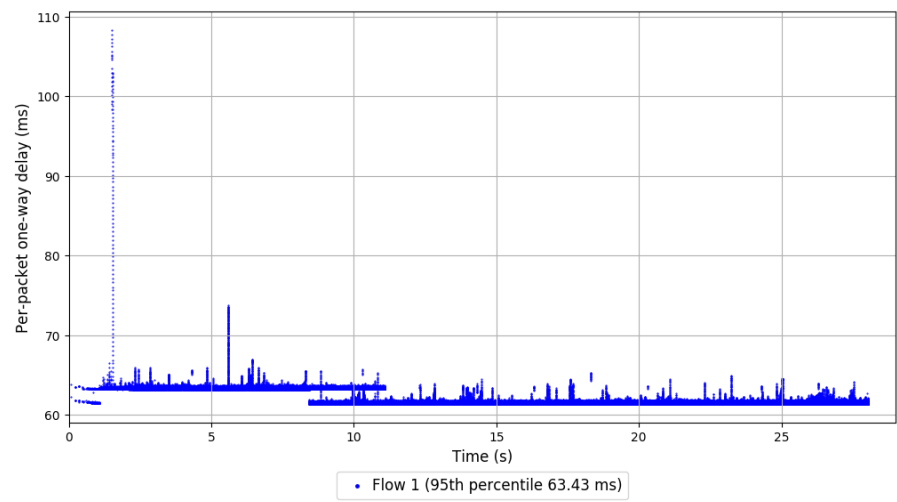
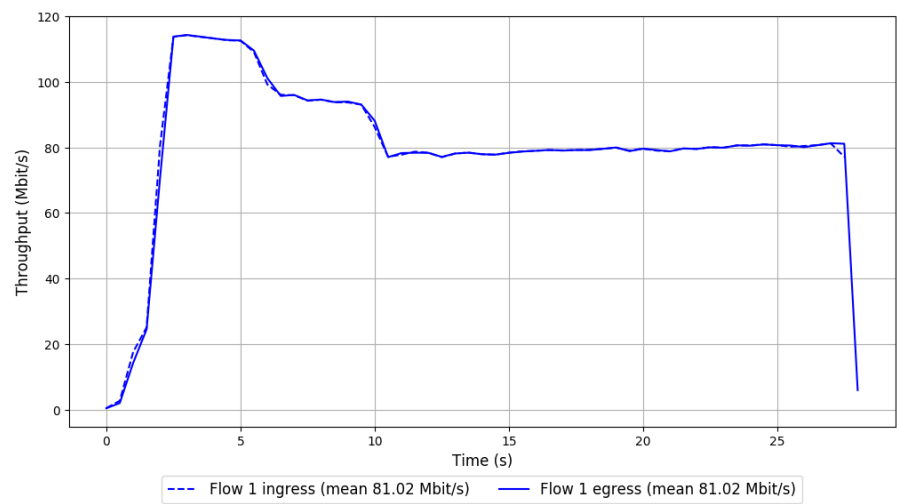
-- Flow 1:

Average throughput: 81.02 Mbit/s

95th percentile per-packet one-way delay: 63.434 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 12:11:47

End at: 2018-01-02 12:12:17

Below is generated by plot.py at 2018-01-02 14:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.82 Mbit/s

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

Loss rate: 0.00%

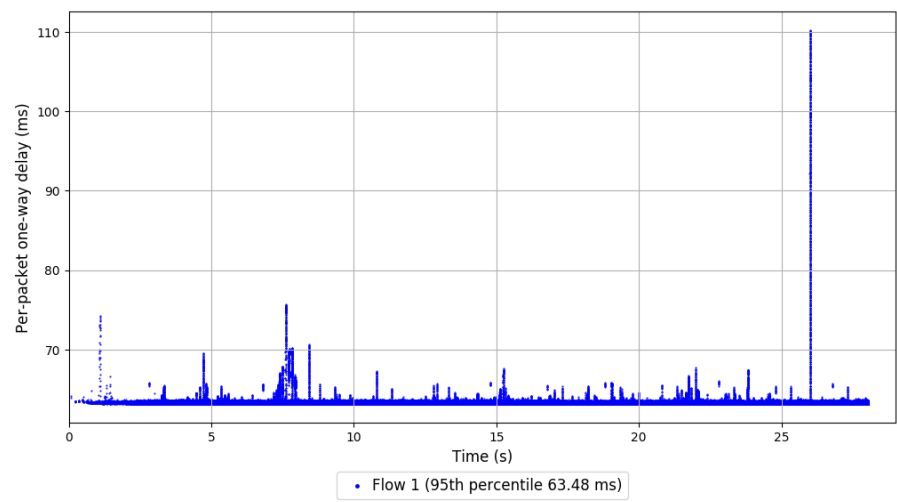
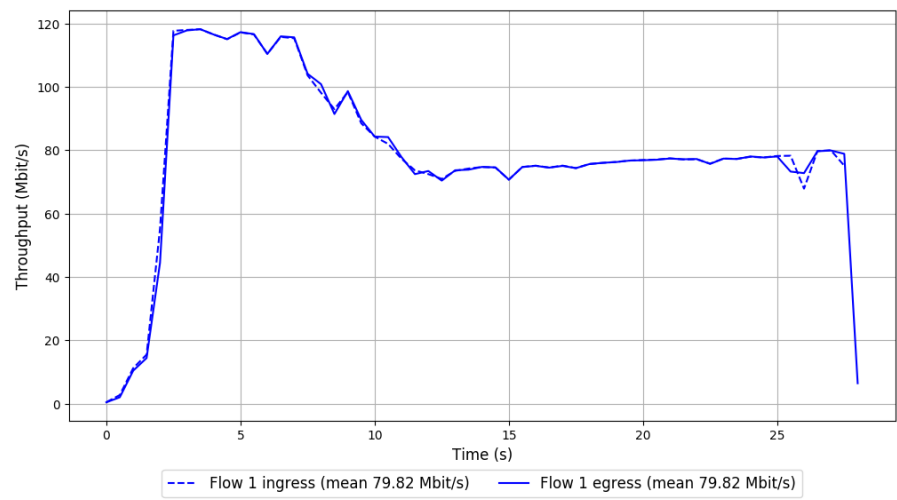
-- Flow 1:

Average throughput: 79.82 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 12:23:08

End at: 2018-01-02 12:23:38

Below is generated by plot.py at 2018-01-02 14:43:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 63.469 ms

Loss rate: 0.00%

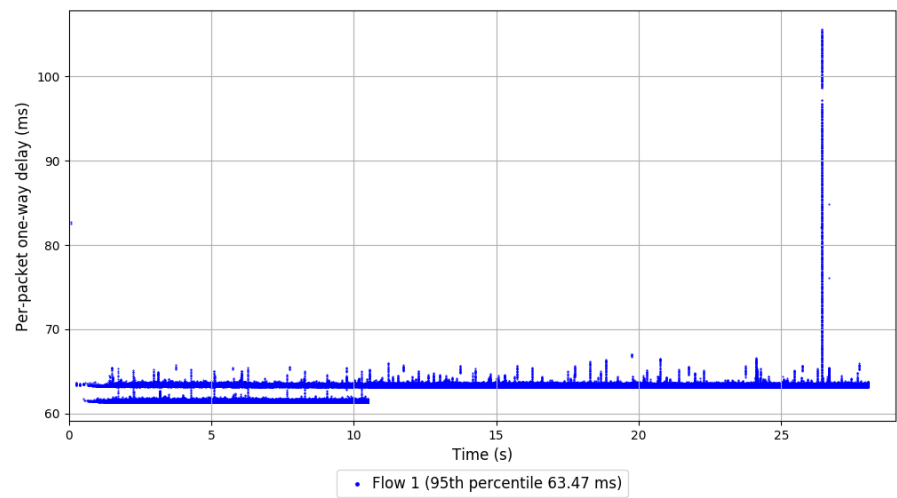
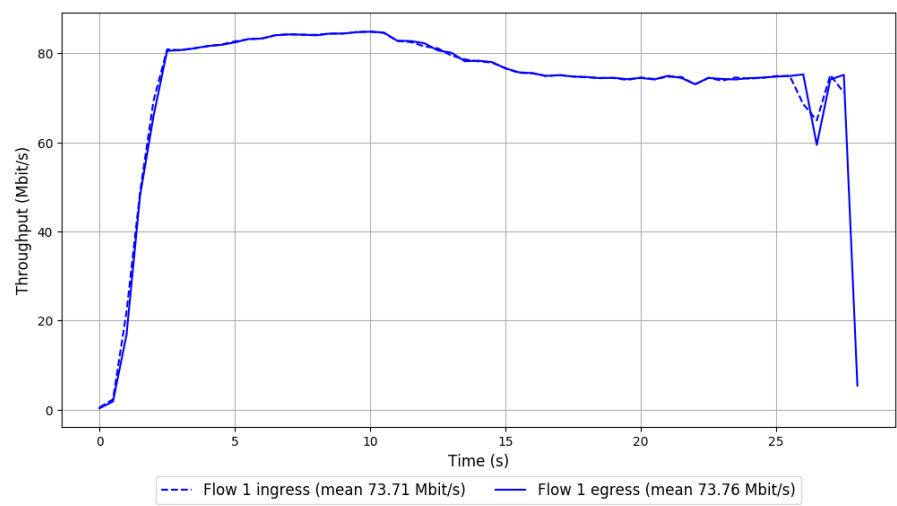
-- Flow 1:

Average throughput: 73.76 Mbit/s

95th percentile per-packet one-way delay: 63.469 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 12:34:23

End at: 2018-01-02 12:34:53

Below is generated by plot.py at 2018-01-02 14:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.02 Mbit/s

95th percentile per-packet one-way delay: 63.685 ms

Loss rate: 0.00%

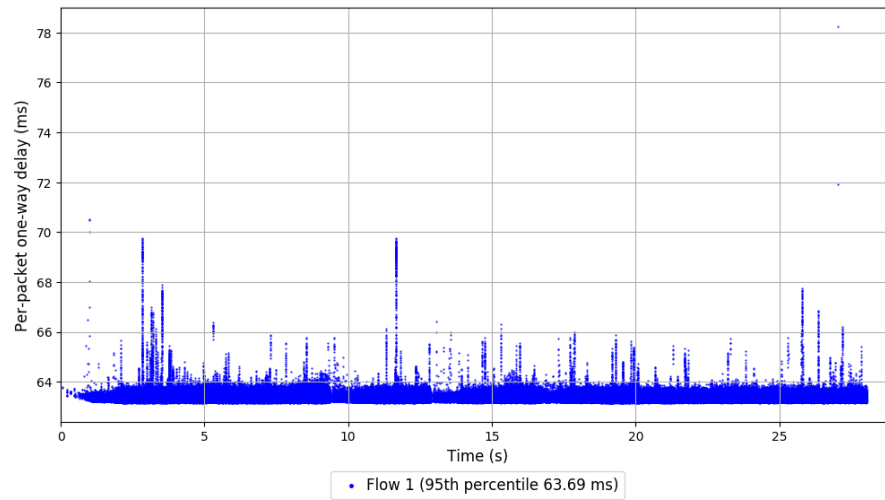
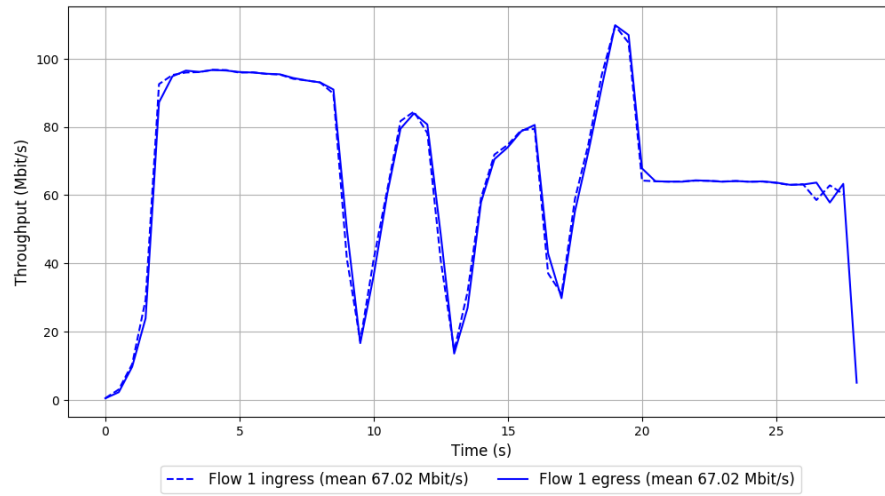
-- Flow 1:

Average throughput: 67.02 Mbit/s

95th percentile per-packet one-way delay: 63.685 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 12:46:13

End at: 2018-01-02 12:46:43

Below is generated by plot.py at 2018-01-02 14:44:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 63.465 ms

Loss rate: 0.00%

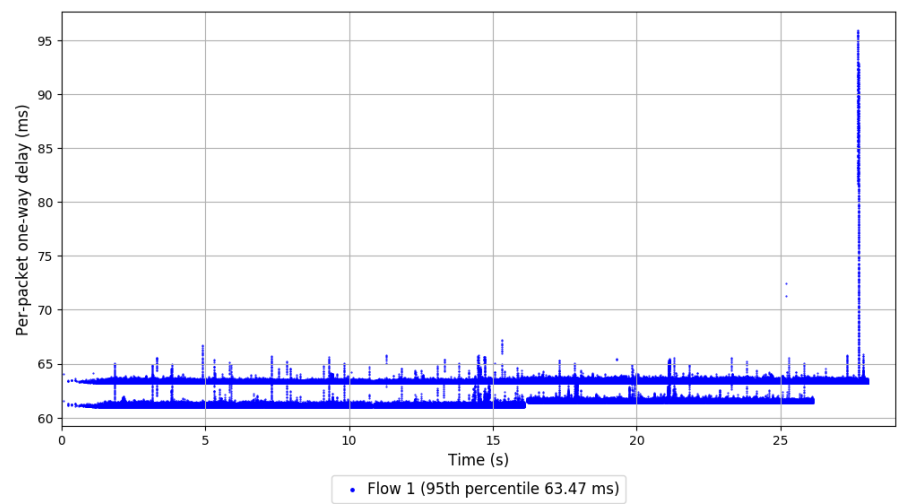
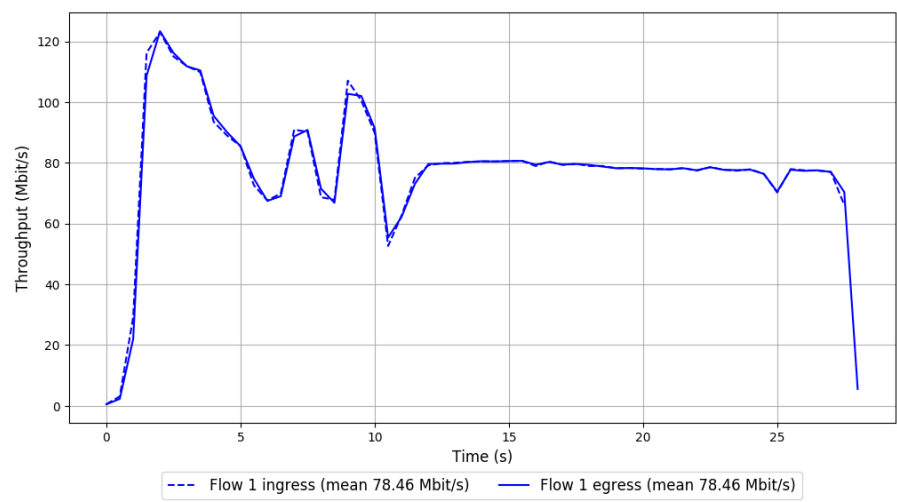
-- Flow 1:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 63.465 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 12:57:26

End at: 2018-01-02 12:57:56

Below is generated by plot.py at 2018-01-02 14:44:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.71 Mbit/s

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

Loss rate: 0.00%

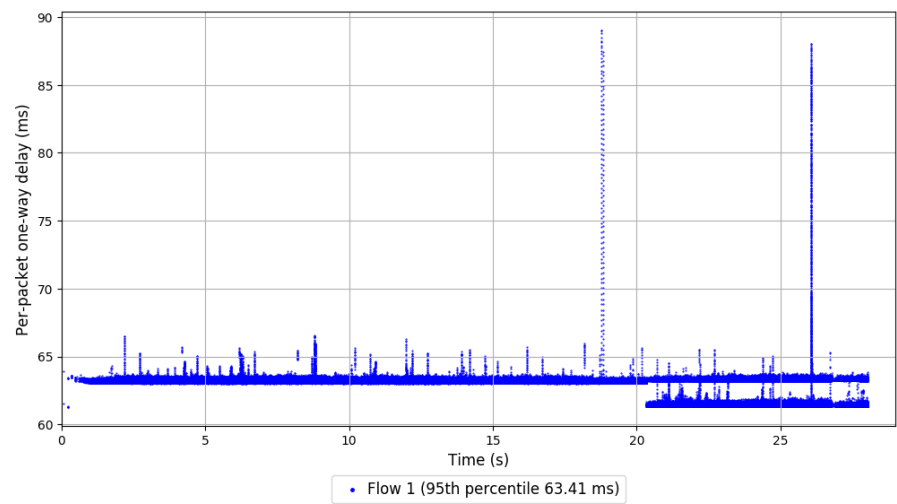
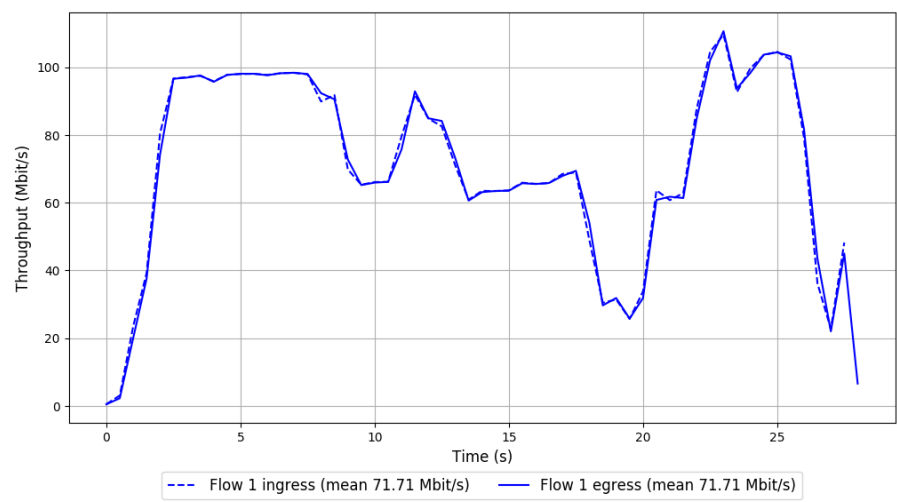
-- Flow 1:

Average throughput: 71.71 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 13:08:39

End at: 2018-01-02 13:09:09

Below is generated by plot.py at 2018-01-02 14:44:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.33 Mbit/s

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

Loss rate: 0.00%

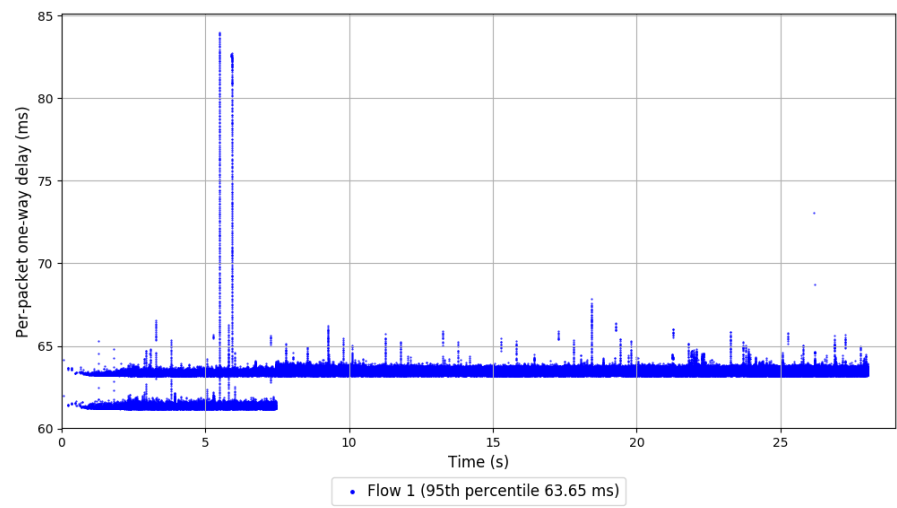
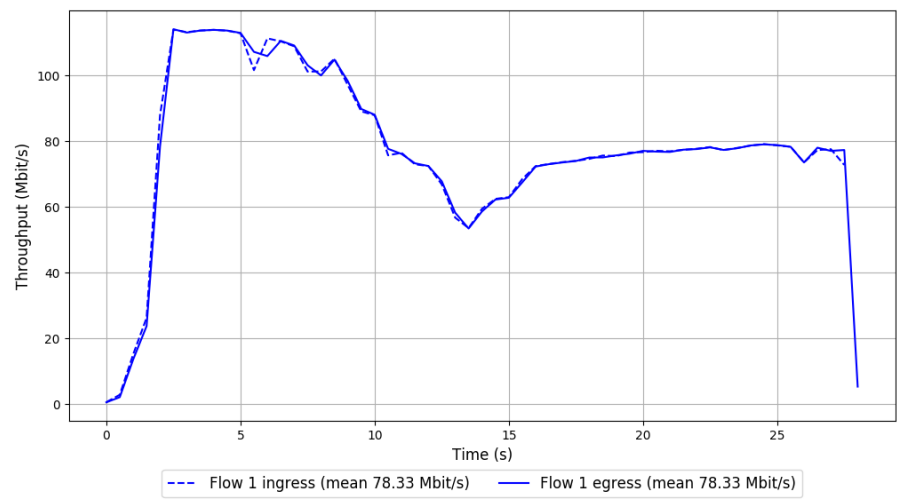
-- Flow 1:

Average throughput: 78.33 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 13:20:14

End at: 2018-01-02 13:20:44

Below is generated by plot.py at 2018-01-02 14:45:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.38 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.00%

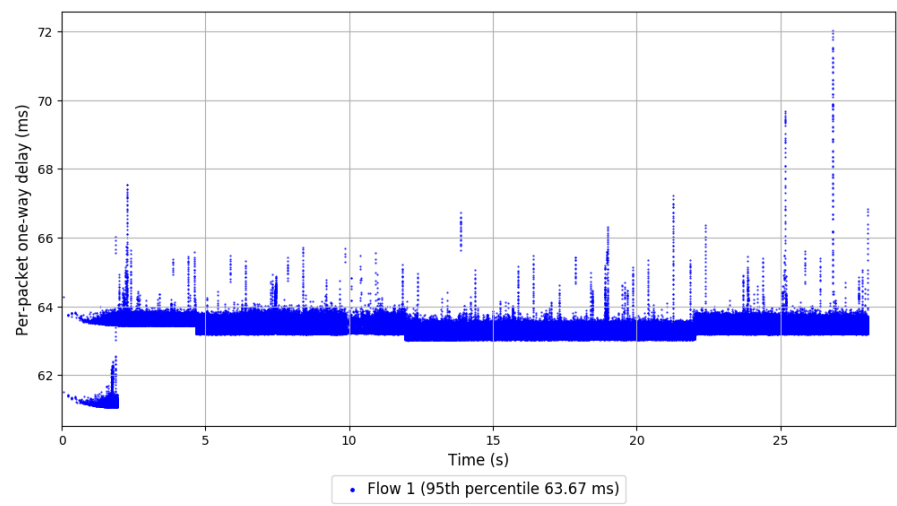
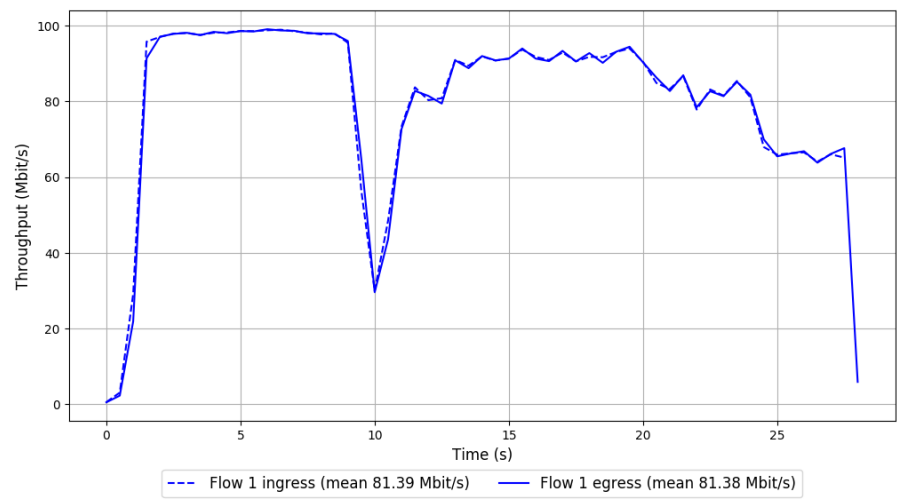
-- Flow 1:

Average throughput: 81.38 Mbit/s

95th percentile per-packet one-way delay: 63.670 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

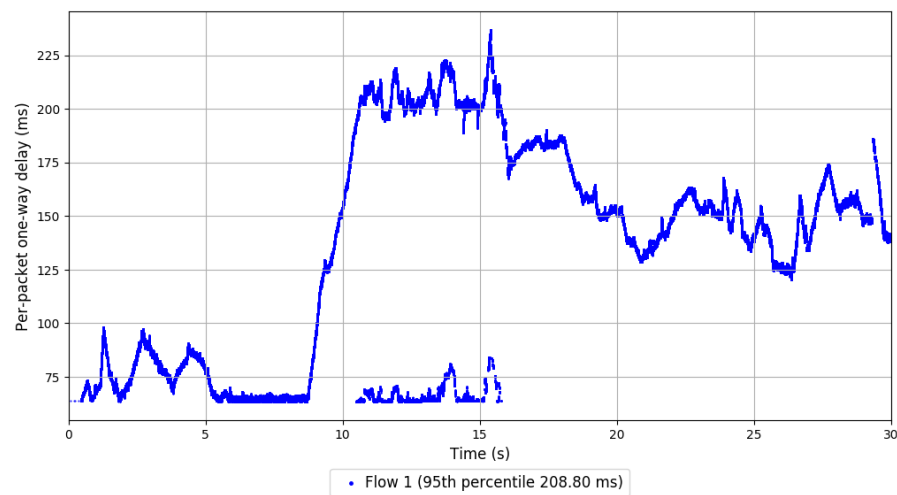
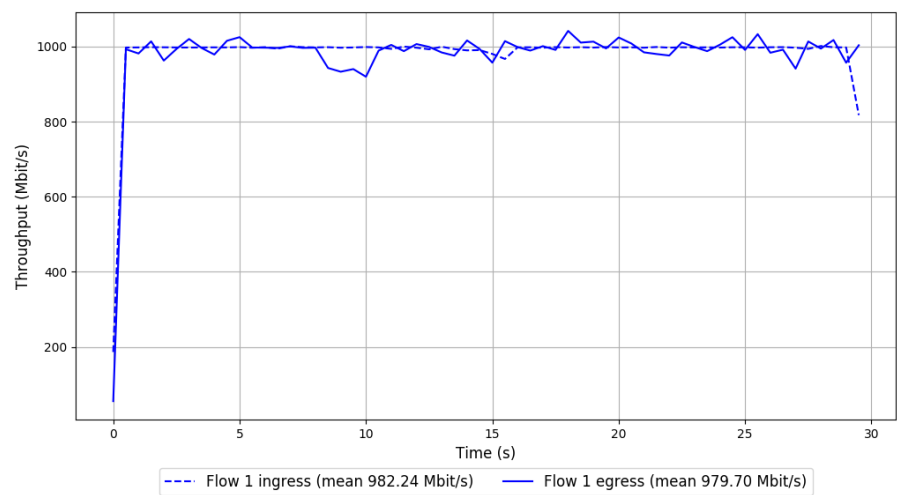


```
Run 1: Statistics of FillP

Start at: 2018-01-02 11:39:05
End at: 2018-01-02 11:39:35

# Below is generated by plot.py at 2018-01-02 15:01:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 979.70 Mbit/s
95th percentile per-packet one-way delay: 208.804 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 979.70 Mbit/s
95th percentile per-packet one-way delay: 208.804 ms
Loss rate: 0.26%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-02 11:50:46

End at: 2018-01-02 11:51:16

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.68 Mbit/s

95th percentile per-packet one-way delay: 250.024 ms

Loss rate: 0.32%

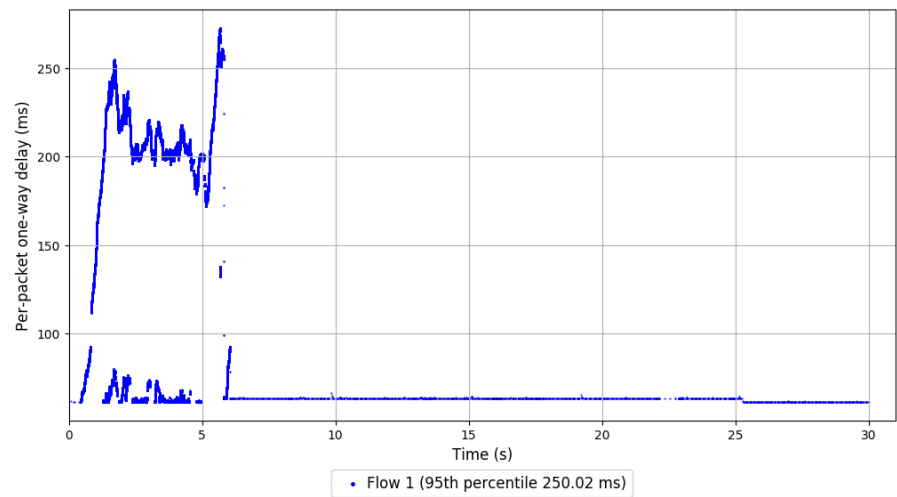
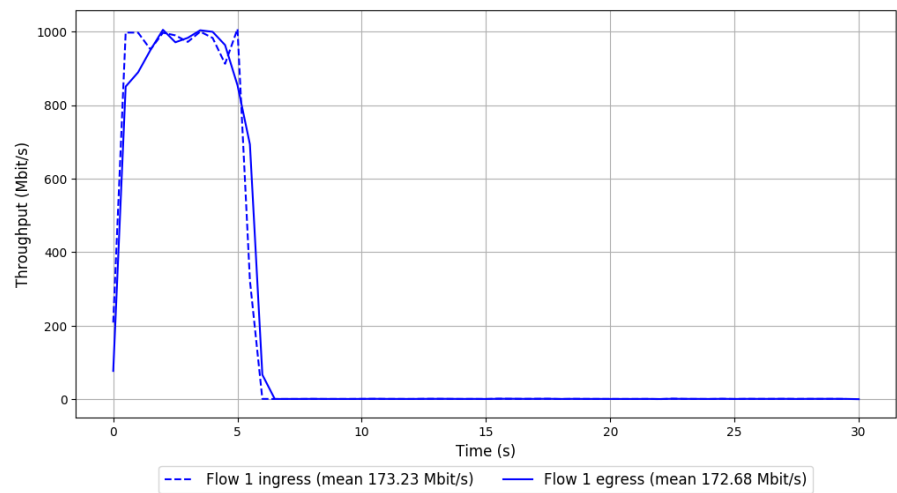
-- Flow 1:

Average throughput: 172.68 Mbit/s

95th percentile per-packet one-way delay: 250.024 ms

Loss rate: 0.32%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-02 12:01:59

End at: 2018-01-02 12:02:29

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 885.05 Mbit/s

95th percentile per-packet one-way delay: 219.848 ms

Loss rate: 0.00%

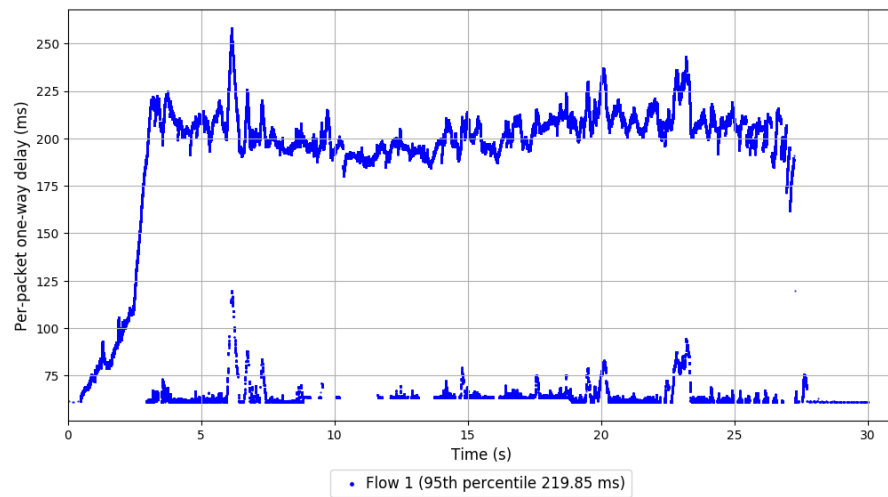
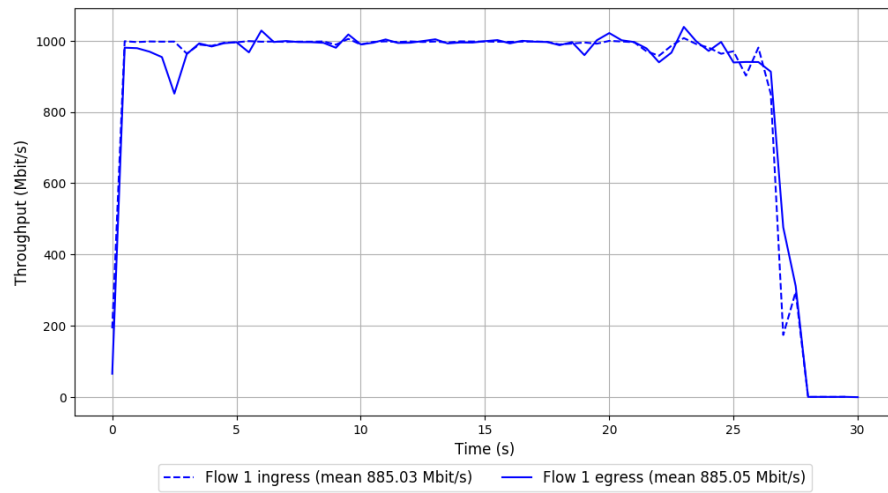
-- Flow 1:

Average throughput: 885.05 Mbit/s

95th percentile per-packet one-way delay: 219.848 ms

Loss rate: 0.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-02 12:13:49

End at: 2018-01-02 12:14:19

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.51 Mbit/s

95th percentile per-packet one-way delay: 279.975 ms

Loss rate: 2.06%

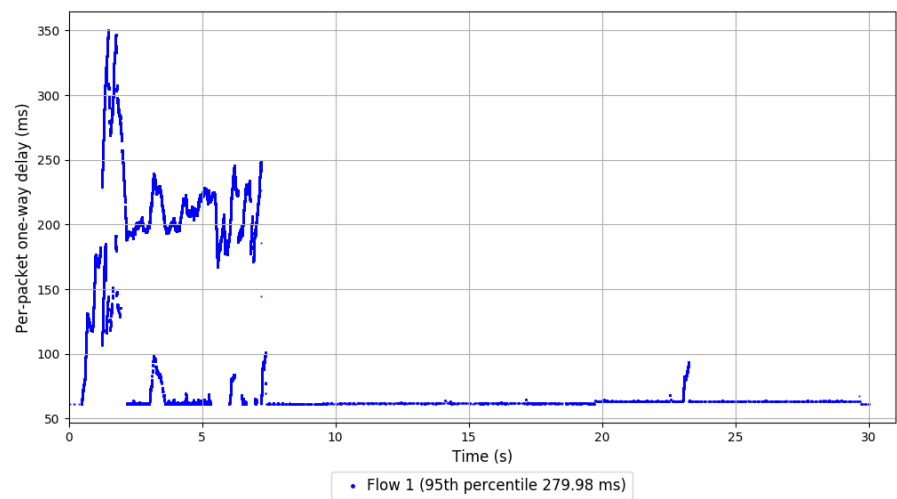
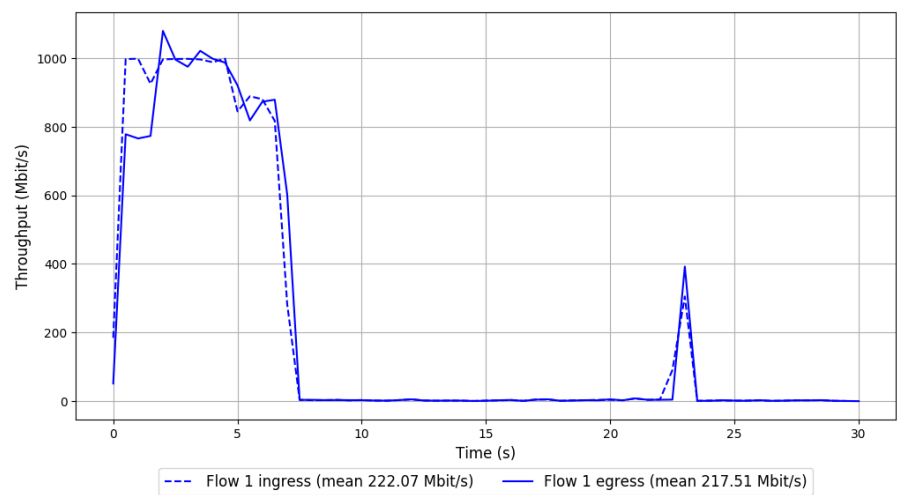
-- Flow 1:

Average throughput: 217.51 Mbit/s

95th percentile per-packet one-way delay: 279.975 ms

Loss rate: 2.06%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-02 12:25:09

End at: 2018-01-02 12:25:39

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 664.71 Mbit/s

95th percentile per-packet one-way delay: 208.610 ms

Loss rate: 0.00%

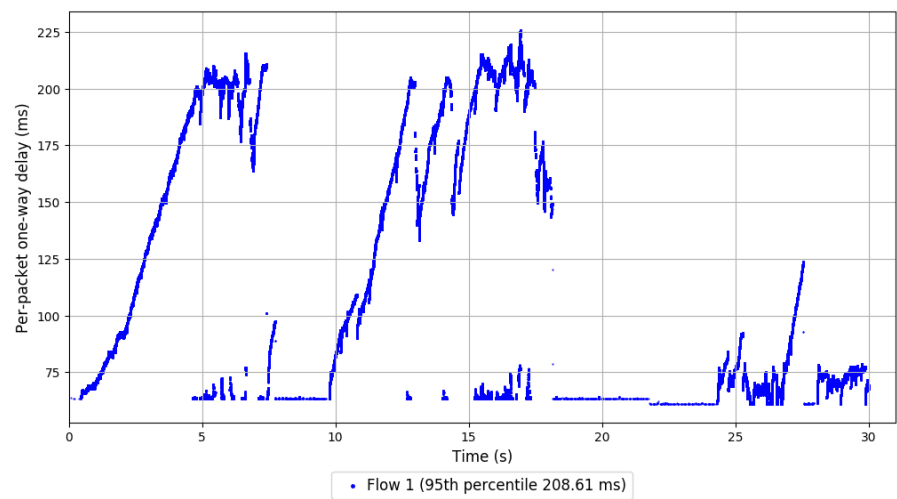
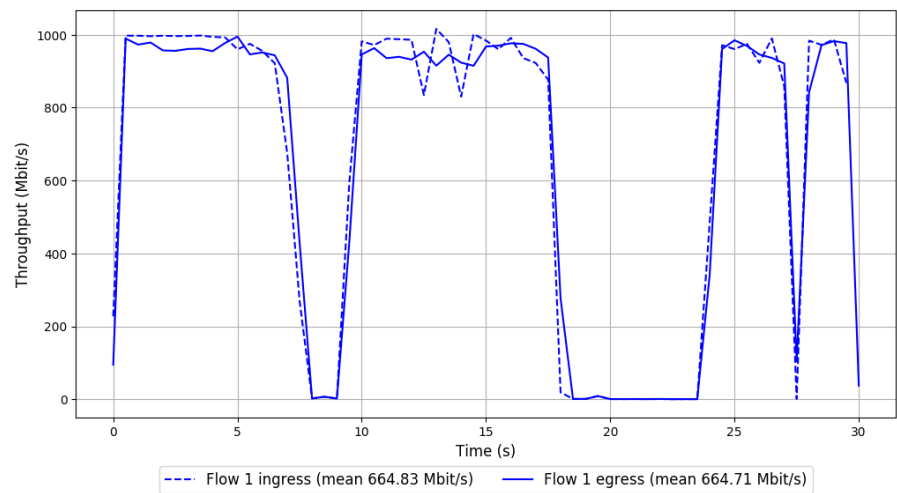
-- Flow 1:

Average throughput: 664.71 Mbit/s

95th percentile per-packet one-way delay: 208.610 ms

Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-02 12:36:23

End at: 2018-01-02 12:36:53

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 848.22 Mbit/s

95th percentile per-packet one-way delay: 282.233 ms

Loss rate: 0.93%

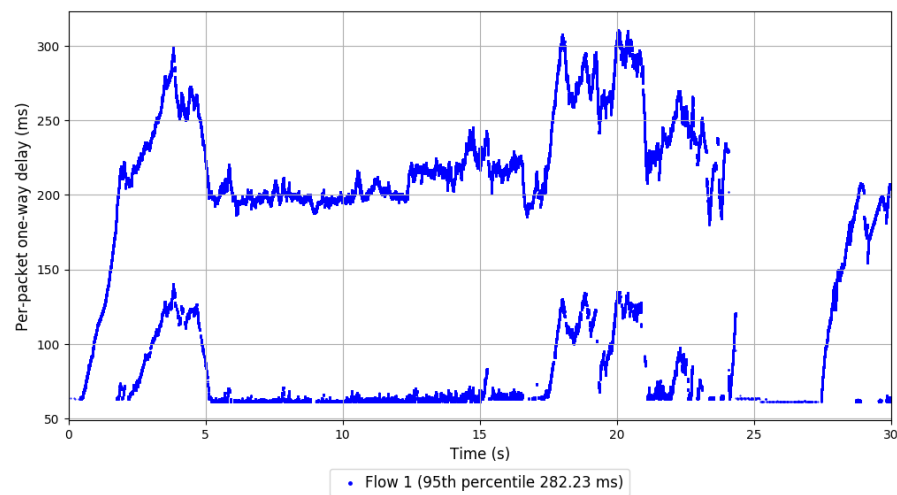
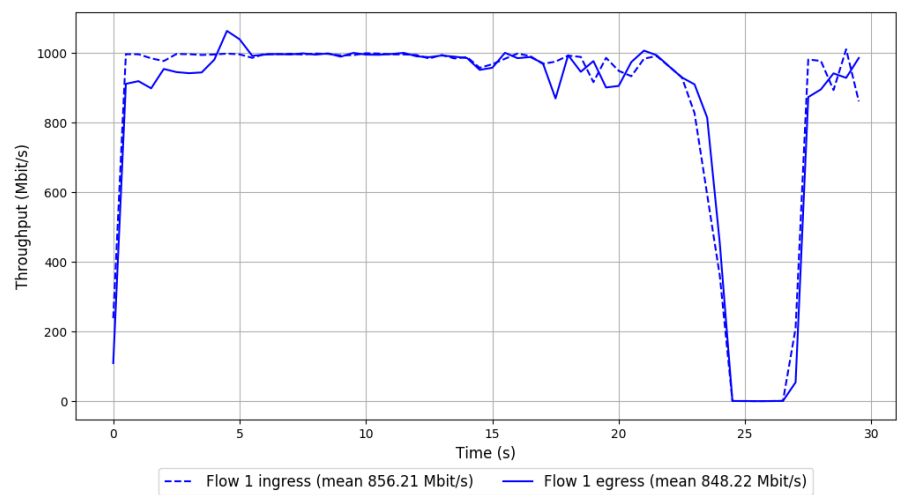
-- Flow 1:

Average throughput: 848.22 Mbit/s

95th percentile per-packet one-way delay: 282.233 ms

Loss rate: 0.93%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-02 12:48:14

End at: 2018-01-02 12:48:44

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 631.32 Mbit/s

95th percentile per-packet one-way delay: 212.481 ms

Loss rate: 0.63%

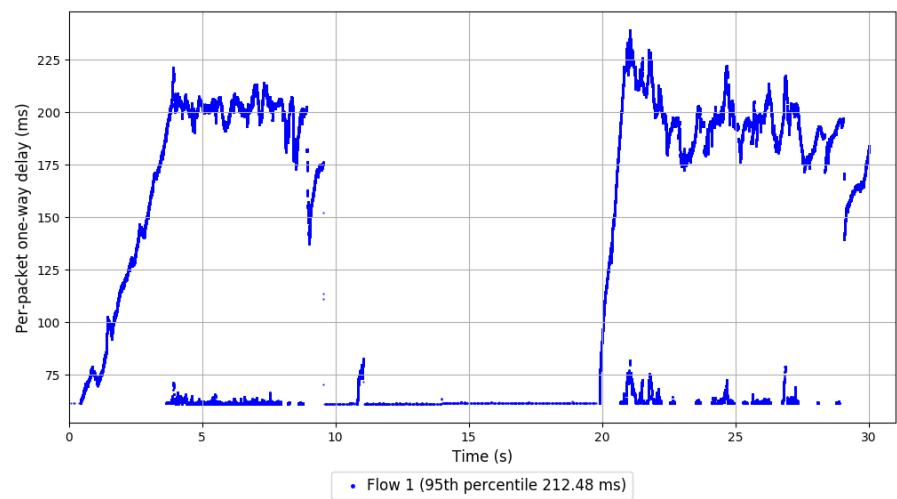
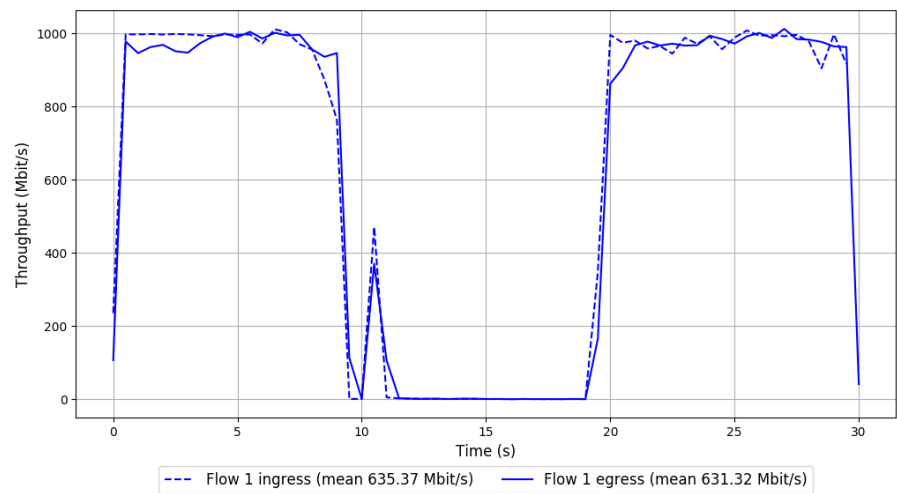
-- Flow 1:

Average throughput: 631.32 Mbit/s

95th percentile per-packet one-way delay: 212.481 ms

Loss rate: 0.63%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-02 12:59:27

End at: 2018-01-02 12:59:57

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.60 Mbit/s

95th percentile per-packet one-way delay: 228.639 ms

Loss rate: 0.00%

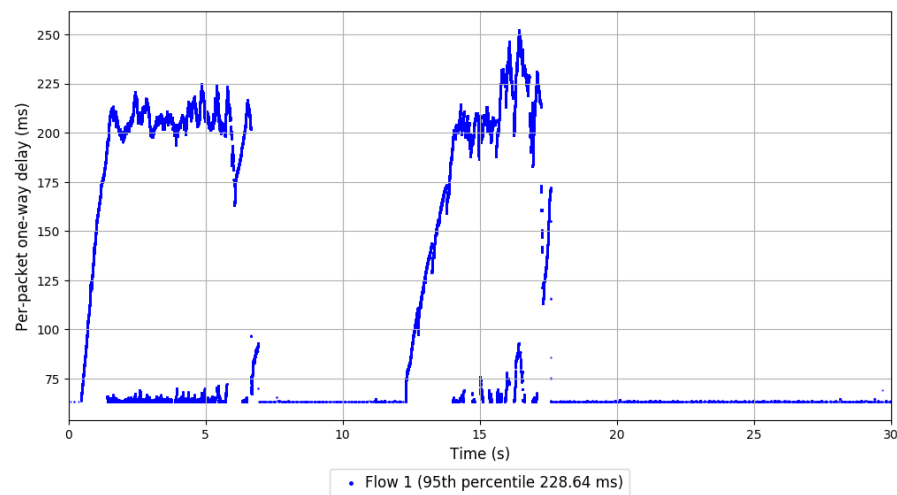
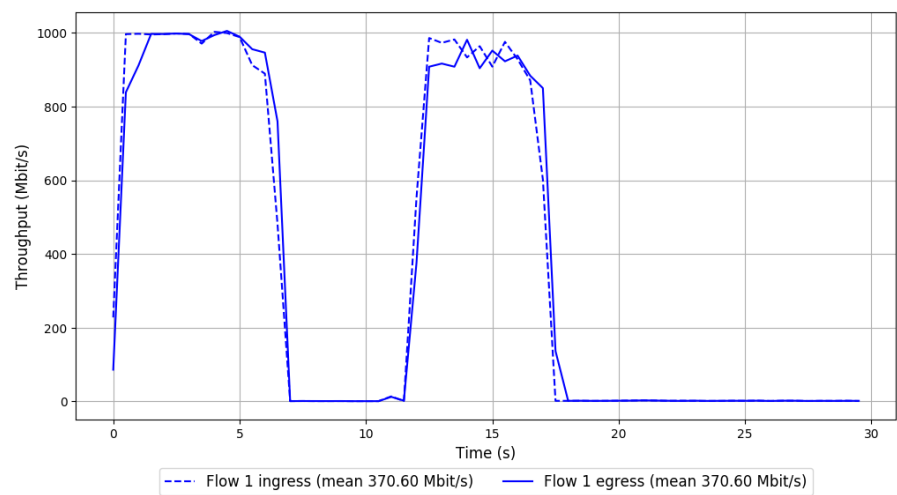
-- Flow 1:

Average throughput: 370.60 Mbit/s

95th percentile per-packet one-way delay: 228.639 ms

Loss rate: 0.00%

Run 8: Report of FillP — Data Link

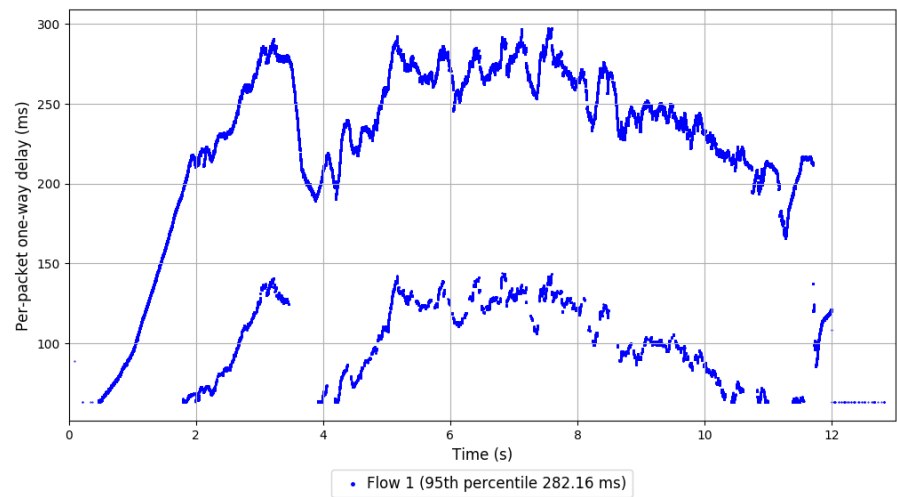
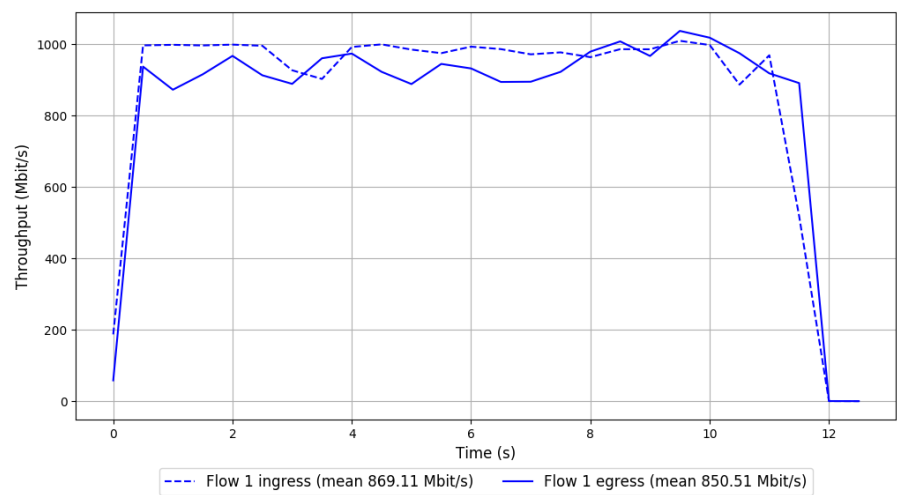


Run 9: Statistics of FillP

Start at: 2018-01-02 13:10:40

End at: 2018-01-02 13:11:10

Run 9: Report of FillP — Data Link

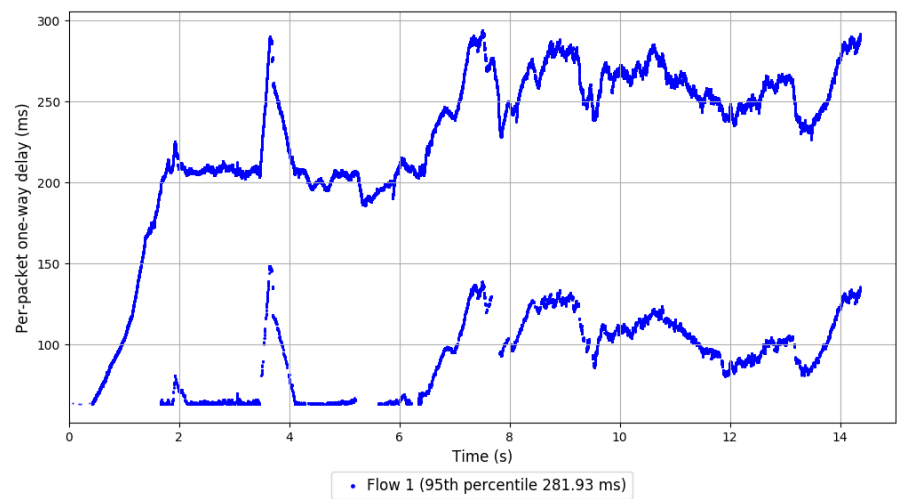
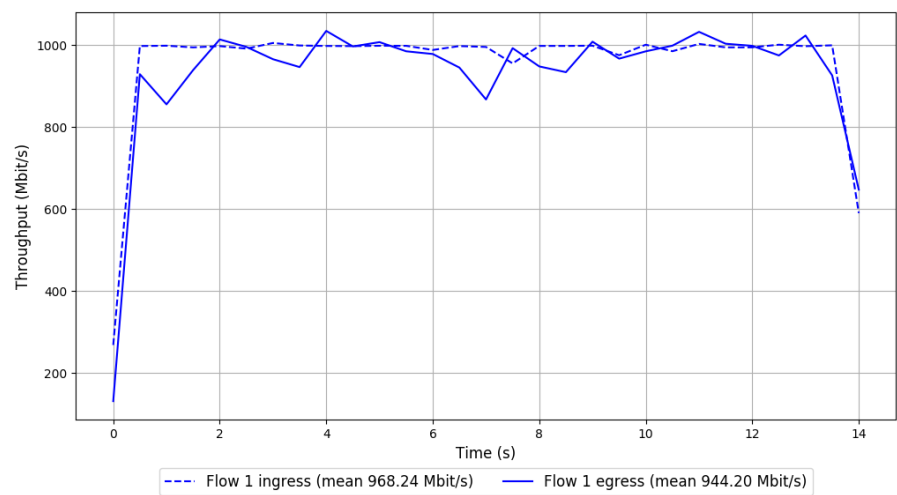


Run 10: Statistics of FillP

Start at: 2018-01-02 13:22:15

End at: 2018-01-02 13:22:45

Run 10: Report of FillP — Data Link

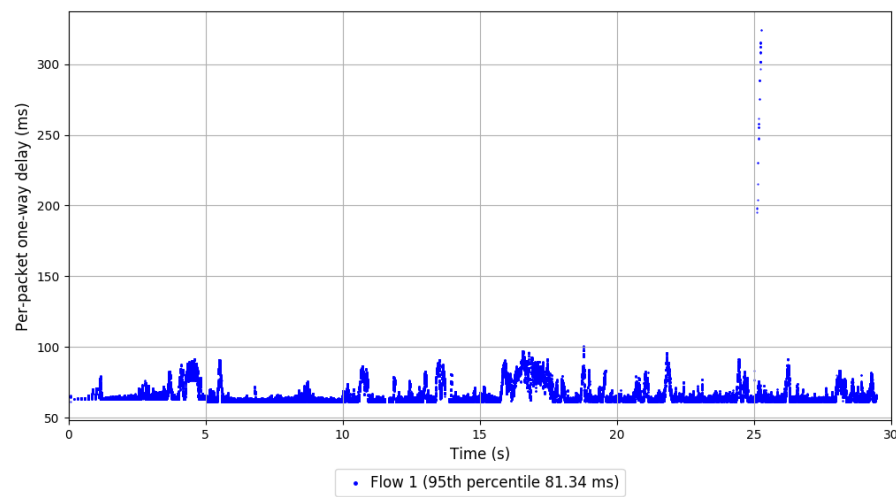
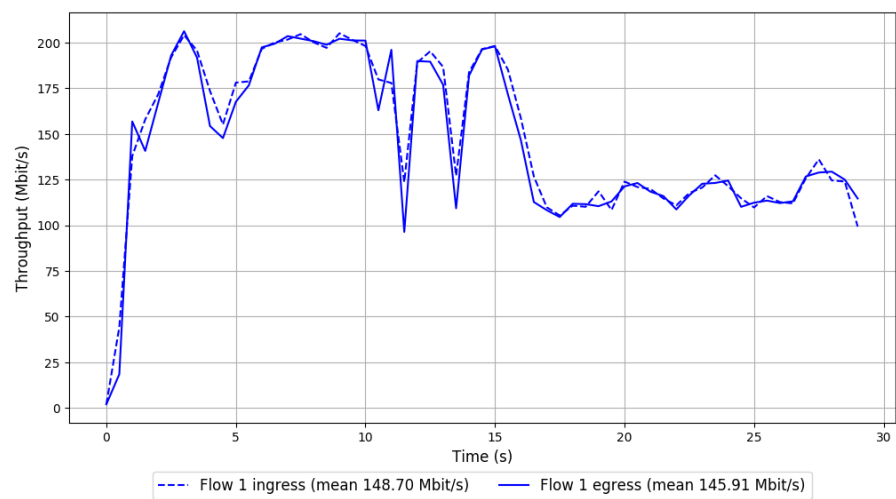


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 11:32:55
End at: 2018-01-02 11:33:25

# Below is generated by plot.py at 2018-01-02 15:01:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.91 Mbit/s
95th percentile per-packet one-way delay: 81.341 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 145.91 Mbit/s
95th percentile per-packet one-way delay: 81.341 ms
Loss rate: 1.87%
```

Run 1: Report of Indigo — Data Link

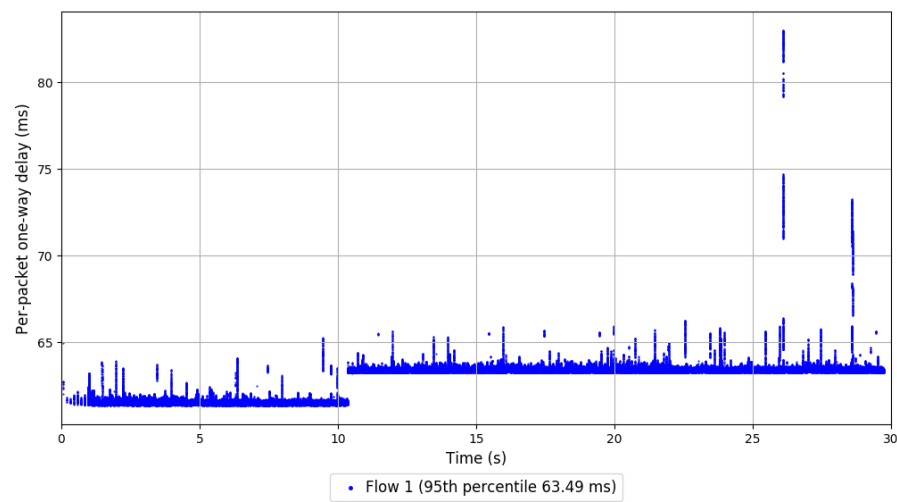
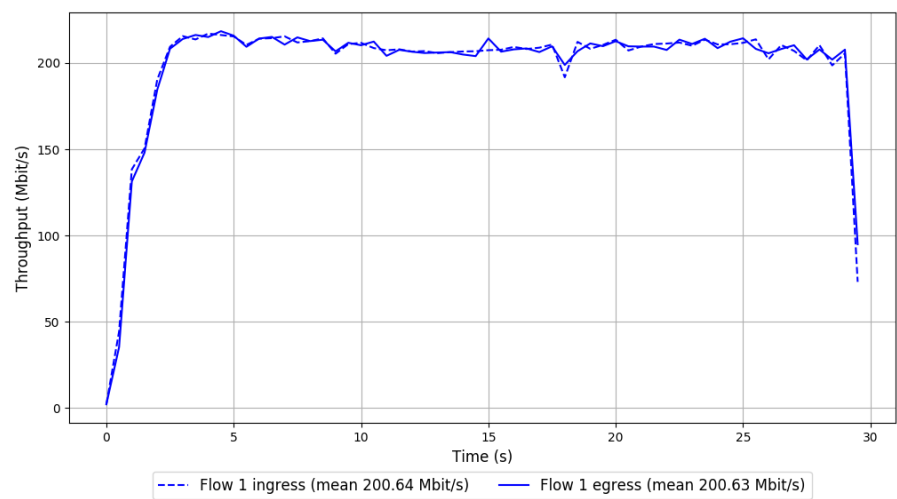


```
Run 2: Statistics of Indigo

Start at: 2018-01-02 11:44:20
End at: 2018-01-02 11:44:50

# Below is generated by plot.py at 2018-01-02 15:01:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.63 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.63 Mbit/s
95th percentile per-packet one-way delay: 63.494 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 11:55:36

End at: 2018-01-02 11:56:06

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.40 Mbit/s

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

Loss rate: 0.00%

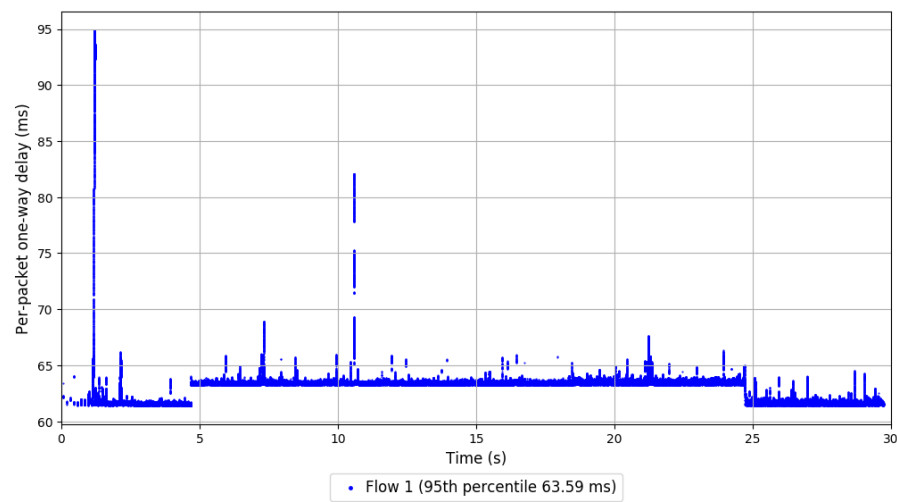
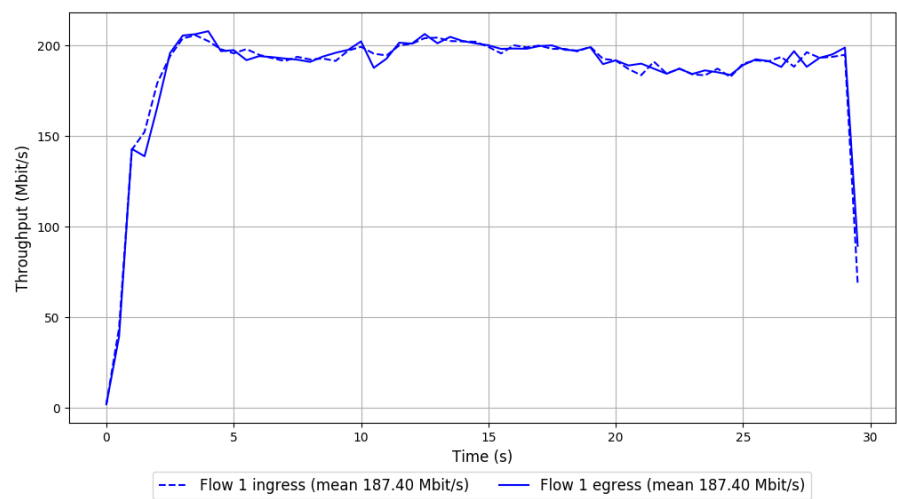
-- Flow 1:

Average throughput: 187.40 Mbit/s

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

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 12:07:26

End at: 2018-01-02 12:07:56

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.86 Mbit/s

95th percentile per-packet one-way delay: 63.502 ms

Loss rate: 0.00%

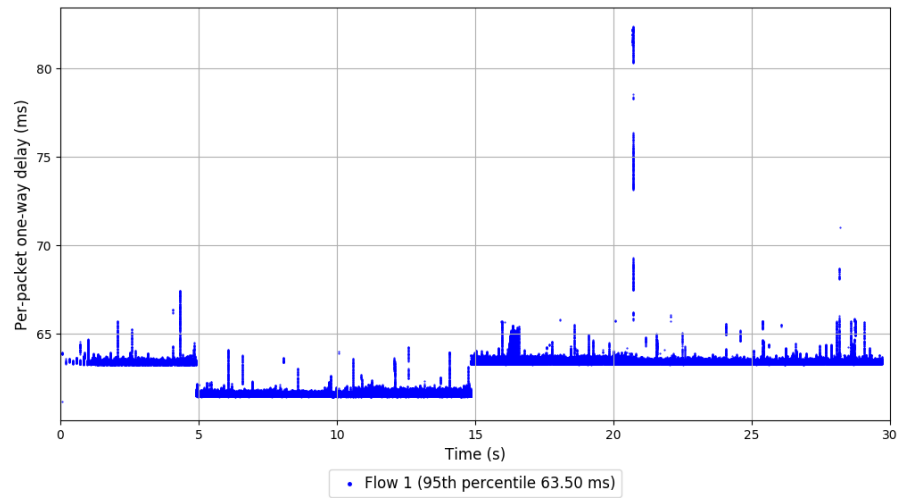
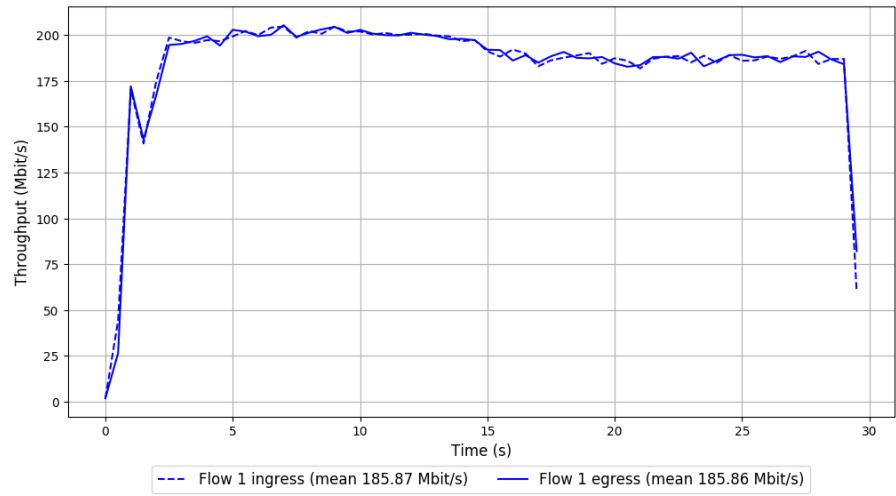
-- Flow 1:

Average throughput: 185.86 Mbit/s

95th percentile per-packet one-way delay: 63.502 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 12:18:39

End at: 2018-01-02 12:19:09

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.89 Mbit/s

95th percentile per-packet one-way delay: 64.132 ms

Loss rate: 0.00%

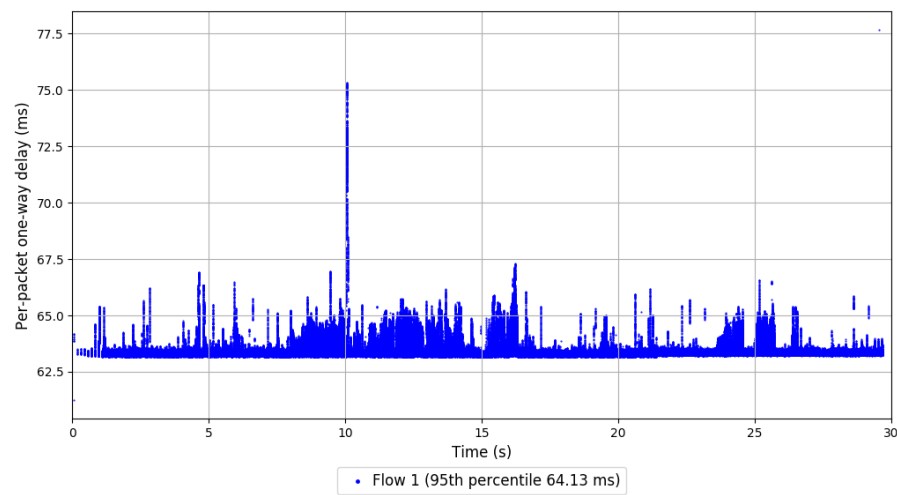
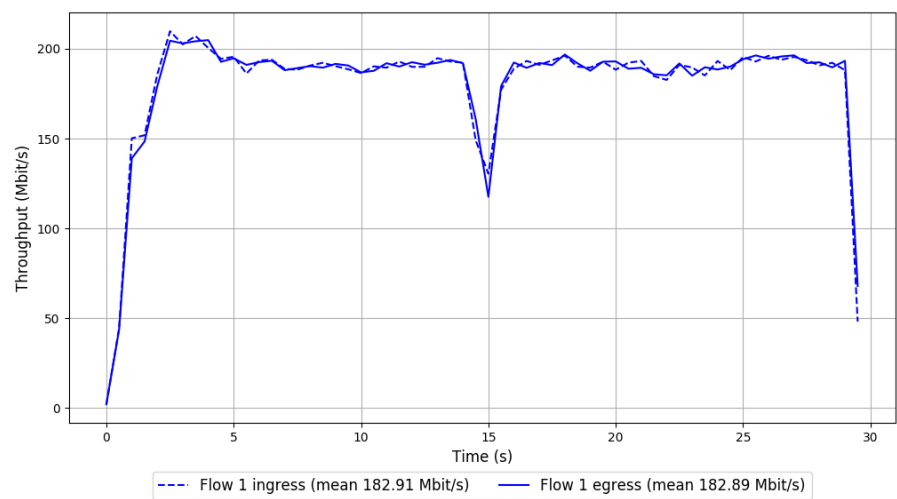
-- Flow 1:

Average throughput: 182.89 Mbit/s

95th percentile per-packet one-way delay: 64.132 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 12:30:03

End at: 2018-01-02 12:30:33

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.56 Mbit/s

95th percentile per-packet one-way delay: 63.634 ms

Loss rate: 0.00%

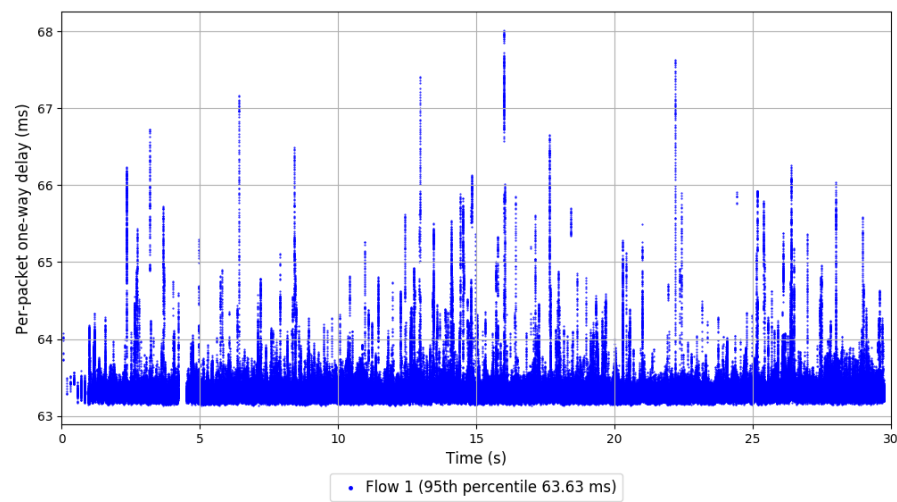
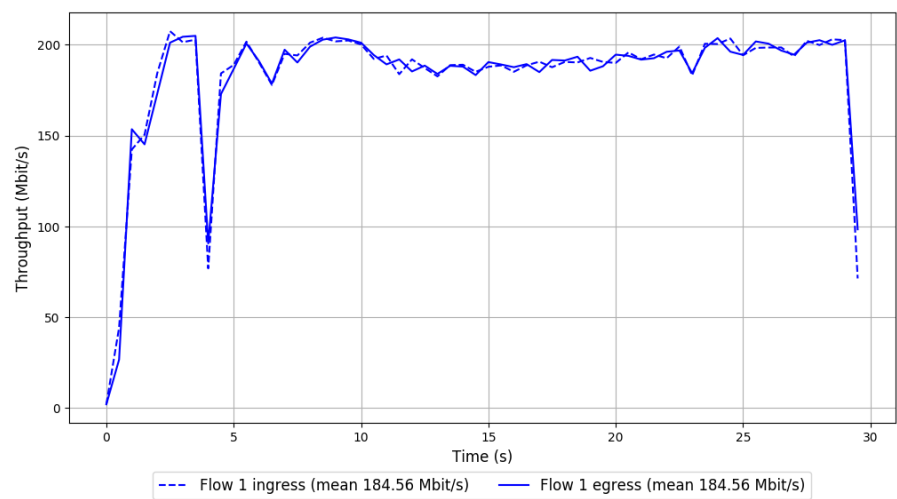
-- Flow 1:

Average throughput: 184.56 Mbit/s

95th percentile per-packet one-way delay: 63.634 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-02 12:41:45

End at: 2018-01-02 12:42:15

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.75 Mbit/s

95th percentile per-packet one-way delay: 63.459 ms

Loss rate: 0.00%

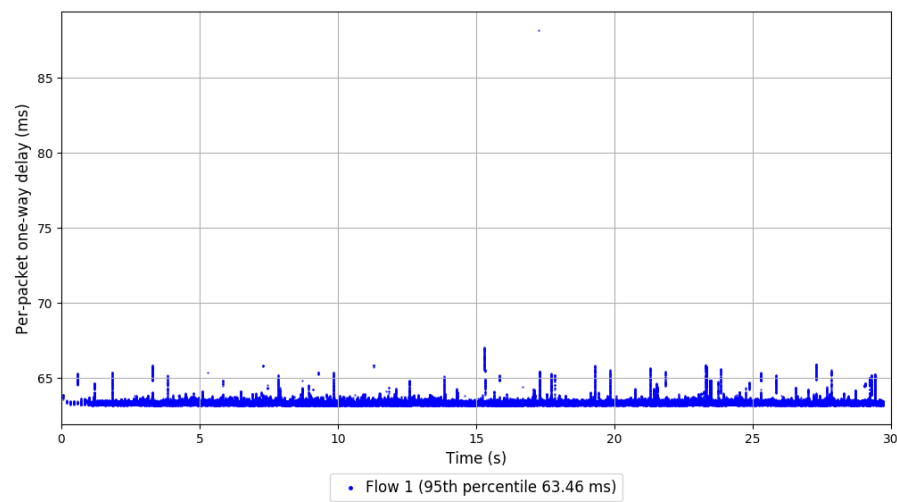
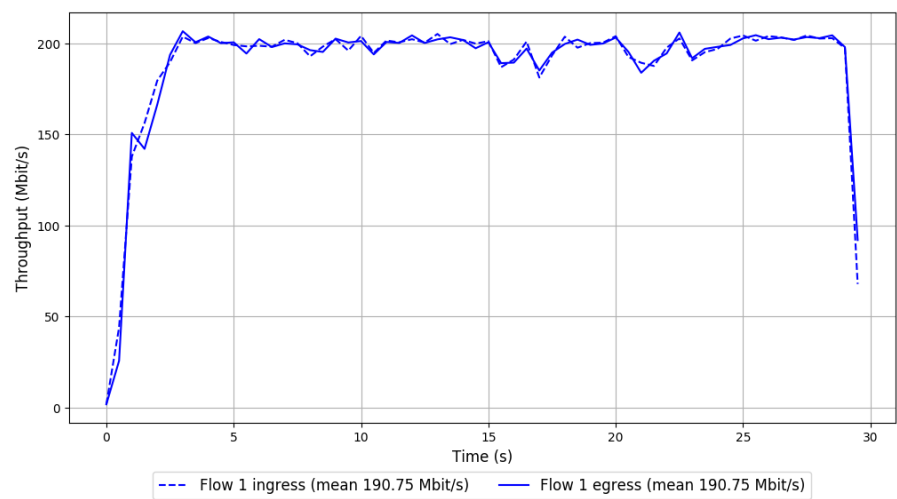
-- Flow 1:

Average throughput: 190.75 Mbit/s

95th percentile per-packet one-way delay: 63.459 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 12:53:07

End at: 2018-01-02 12:53:37

Below is generated by plot.py at 2018-01-02 15:01:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 63.480 ms

Loss rate: 0.00%

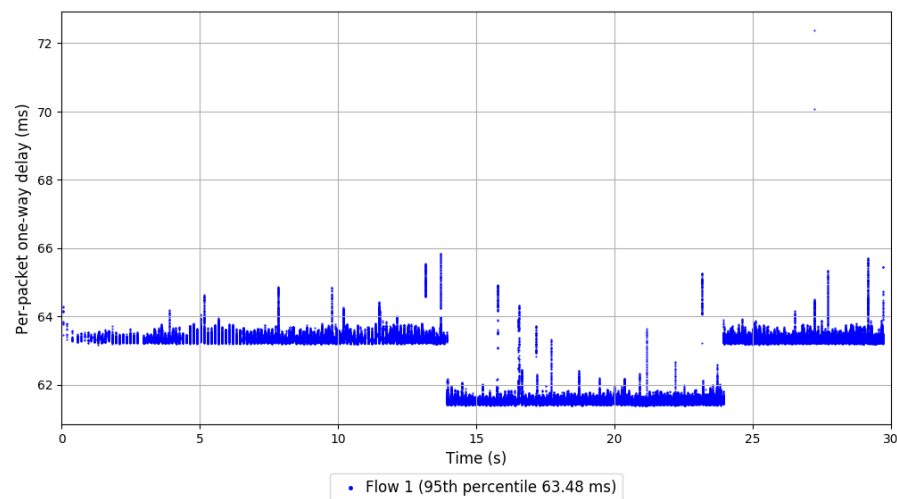
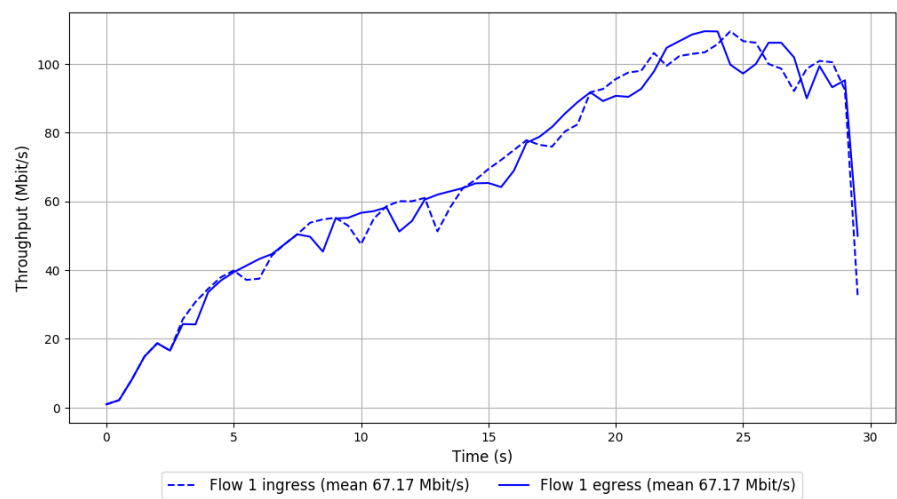
-- Flow 1:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 63.480 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-02 13:04:09

End at: 2018-01-02 13:04:39

Below is generated by plot.py at 2018-01-02 15:01:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.50 Mbit/s

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

Loss rate: 0.00%

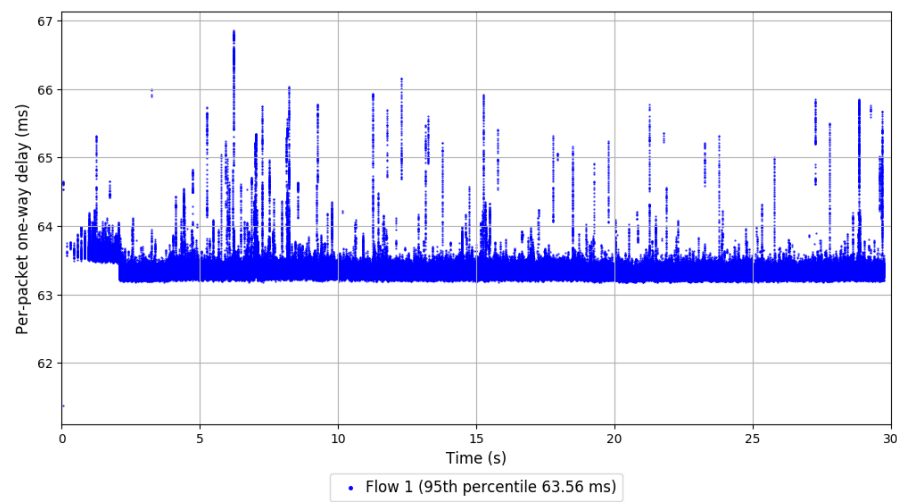
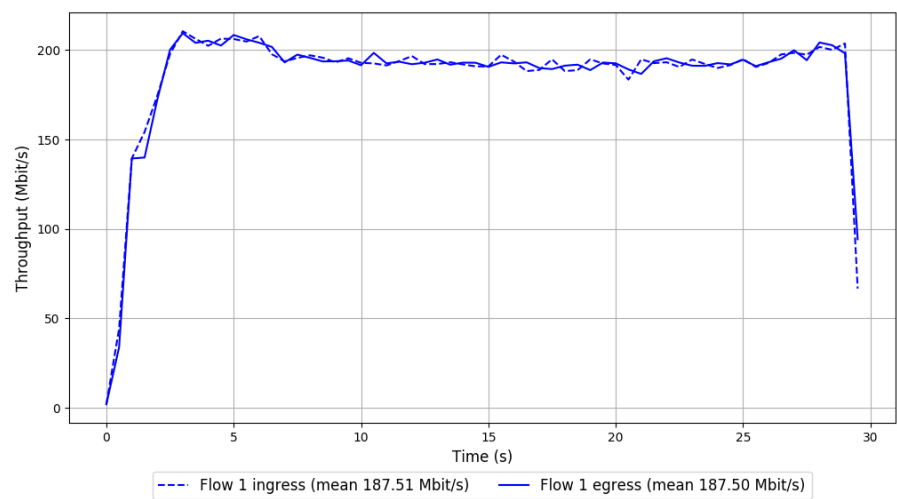
-- Flow 1:

Average throughput: 187.50 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 13:15:37

End at: 2018-01-02 13:16:07

Below is generated by plot.py at 2018-01-02 15:01:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.34 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 192.34 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

