

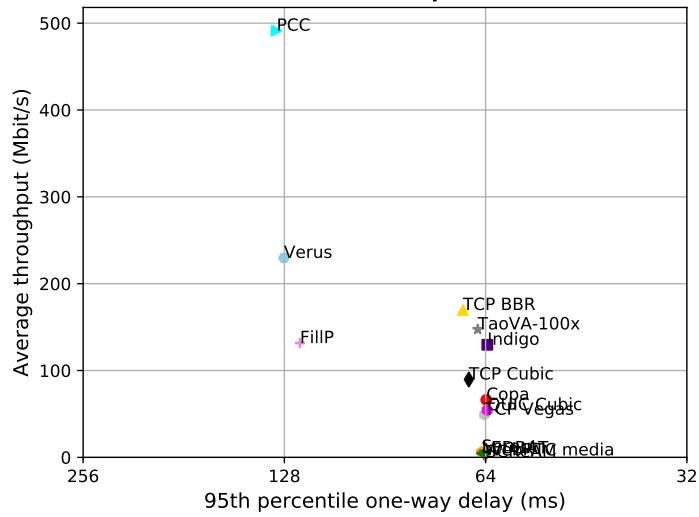
Pantheon Report

Generated at 2018-01-02 14:14:21 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Iowa Ethernet (*local*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

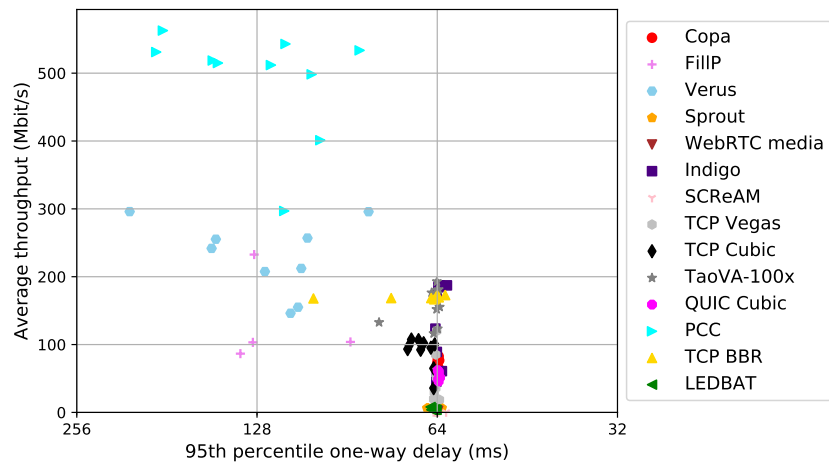
Git summary:

```
branch: master @ 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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	169.67	69.21	0.65
TCP Cubic	10	89.65	67.82	1.00
LEDBAT	9	4.63	64.88	1.78
PCC	10	491.24	131.46	0.94
QUIC Cubic	6	54.37	63.66	0.60
SCReAM	10	0.22	63.98	0.39
WebRTC media	10	2.25	64.20	0.51
Sprout	10	6.31	64.94	1.26
TaoVA-100x	10	147.33	65.76	0.44
TCP Vegas	10	49.11	64.26	0.71
Verus	9	229.64	128.22	1.66
Copa	10	66.16	63.85	0.35
FillP	4	131.59	121.32	0.22
Indigo	10	129.64	63.63	0.46

Run 1: Statistics of TCP BBR

Start at: 2018-01-02 09:43:09

End at: 2018-01-02 09:43:39

Below is generated by plot.py at 2018-01-02 13:33:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.98 Mbit/s

95th percentile per-packet one-way delay: 103.034 ms

Loss rate: 0.45%

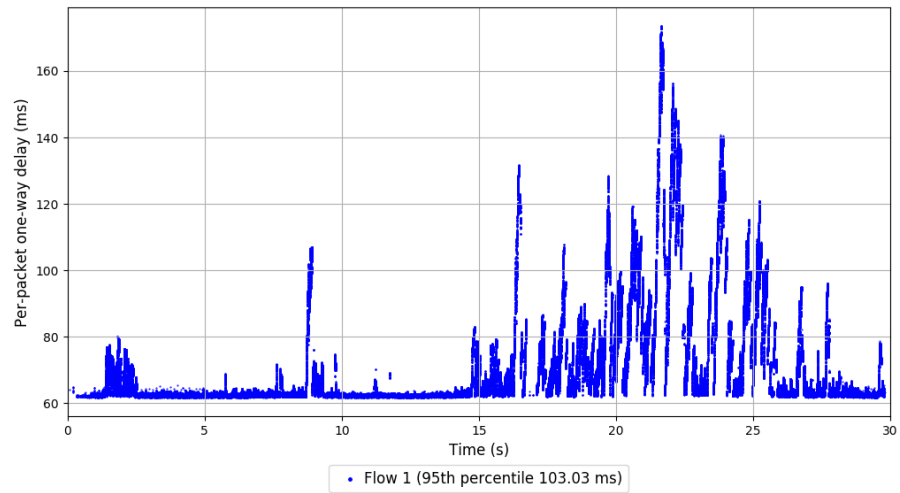
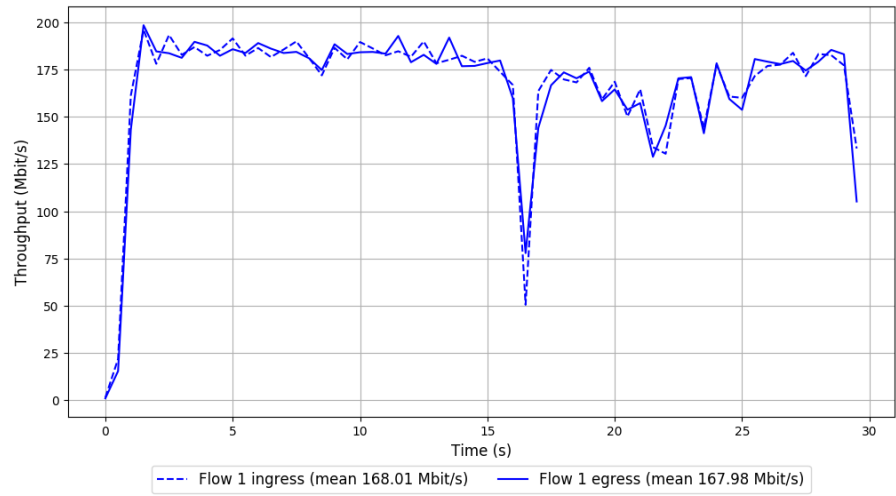
-- Flow 1:

Average throughput: 167.98 Mbit/s

95th percentile per-packet one-way delay: 103.034 ms

Loss rate: 0.45%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-02 09:54:45

End at: 2018-01-02 09:55:15

Below is generated by plot.py at 2018-01-02 13:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.47 Mbit/s

95th percentile per-packet one-way delay: 63.957 ms

Loss rate: 0.44%

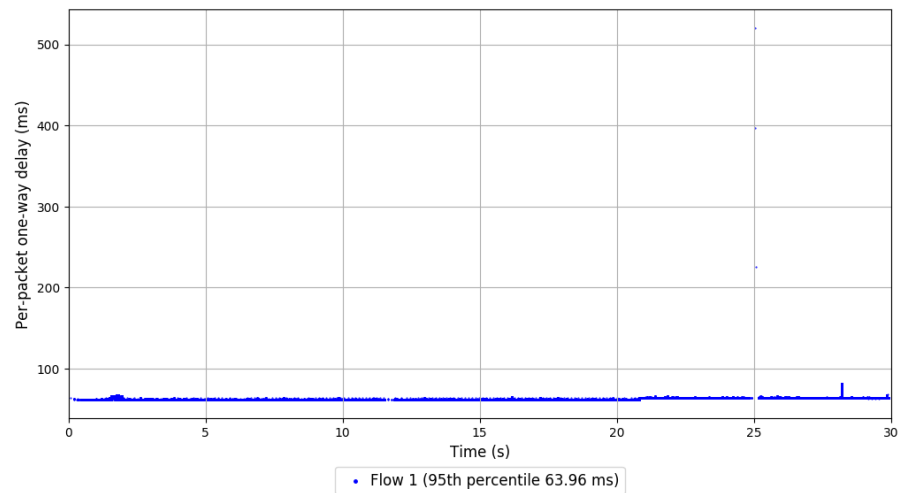
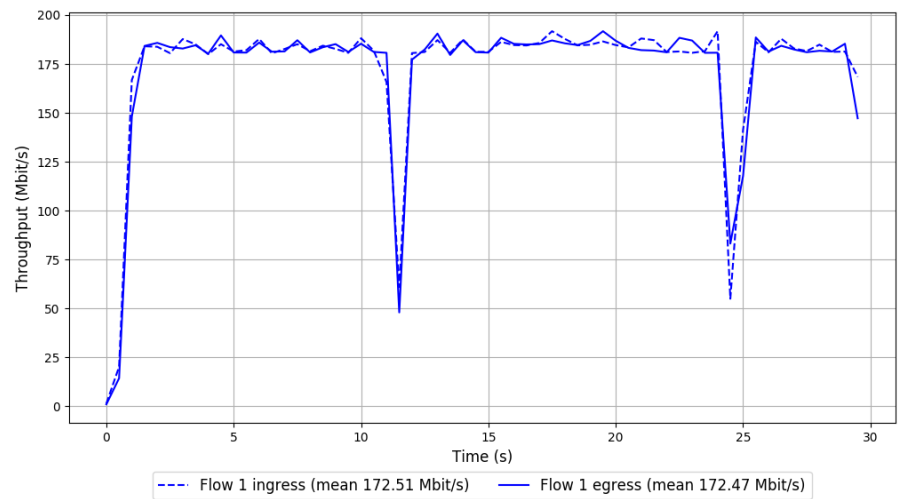
-- Flow 1:

Average throughput: 172.47 Mbit/s

95th percentile per-packet one-way delay: 63.957 ms

Loss rate: 0.44%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-02 10:06:19

End at: 2018-01-02 10:06:49

Below is generated by plot.py at 2018-01-02 13:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.61 Mbit/s

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

Loss rate: 0.58%

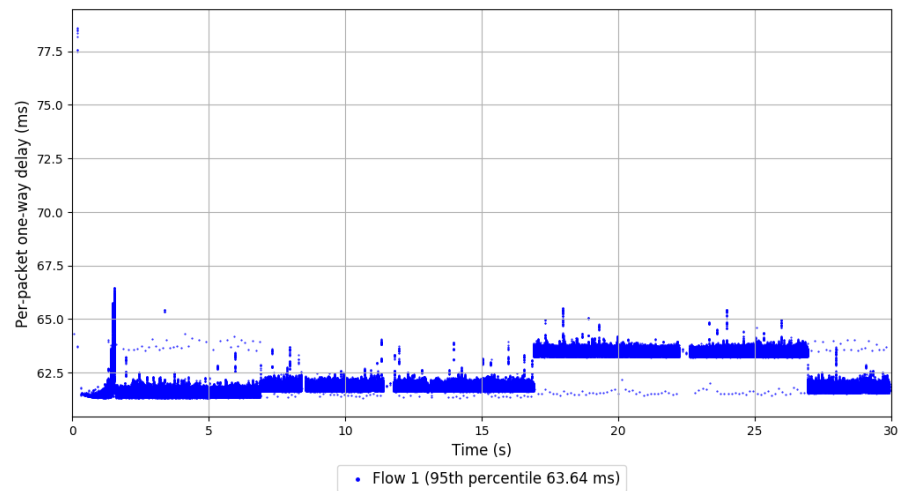
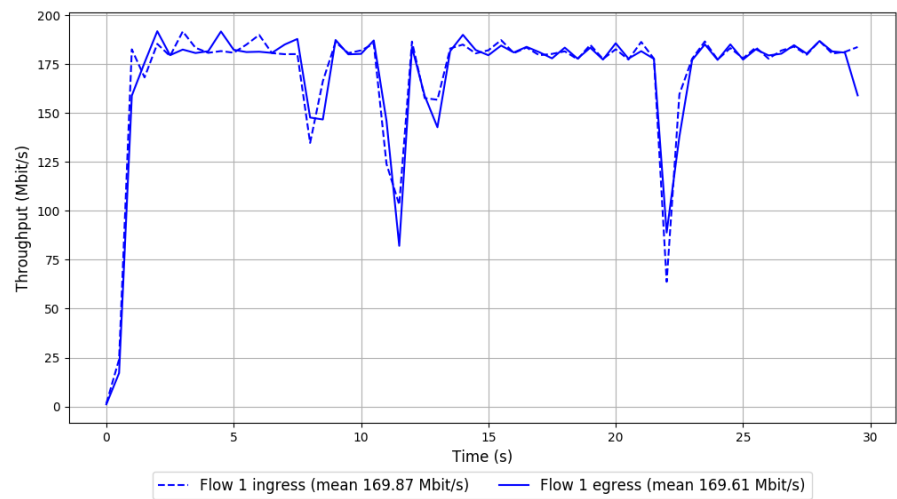
-- Flow 1:

Average throughput: 169.61 Mbit/s

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

Loss rate: 0.58%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-02 10:17:52

End at: 2018-01-02 10:18:22

Below is generated by plot.py at 2018-01-02 13:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.13 Mbit/s

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

Loss rate: 0.65%

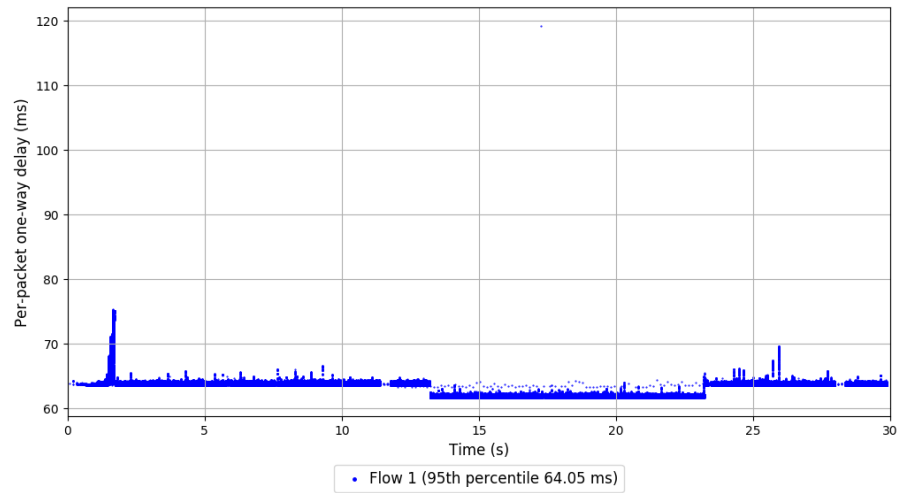
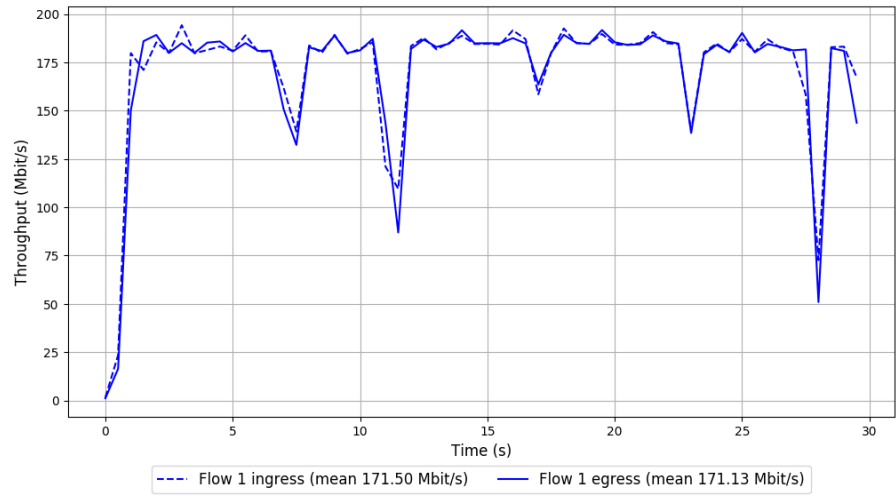
-- Flow 1:

Average throughput: 171.13 Mbit/s

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

Loss rate: 0.65%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-02 10:29:42

End at: 2018-01-02 10:30:12

Below is generated by plot.py at 2018-01-02 13:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.80 Mbit/s

95th percentile per-packet one-way delay: 64.238 ms

Loss rate: 0.63%

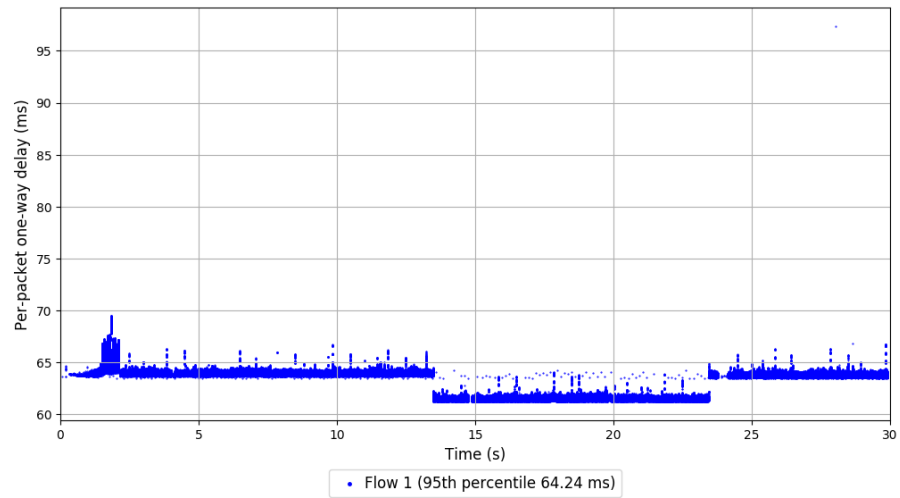
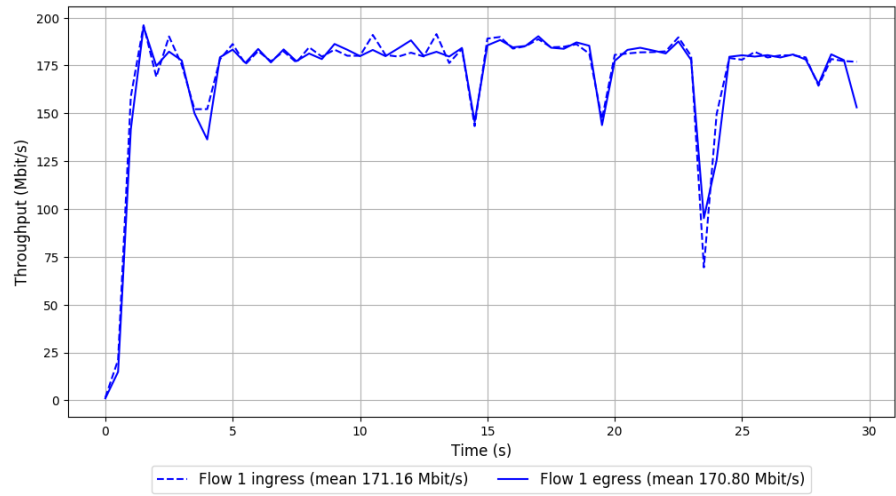
-- Flow 1:

Average throughput: 170.80 Mbit/s

95th percentile per-packet one-way delay: 64.238 ms

Loss rate: 0.63%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-02 10:41:11

End at: 2018-01-02 10:41:41

Below is generated by plot.py at 2018-01-02 13:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.50 Mbit/s

95th percentile per-packet one-way delay: 65.500 ms

Loss rate: 0.44%

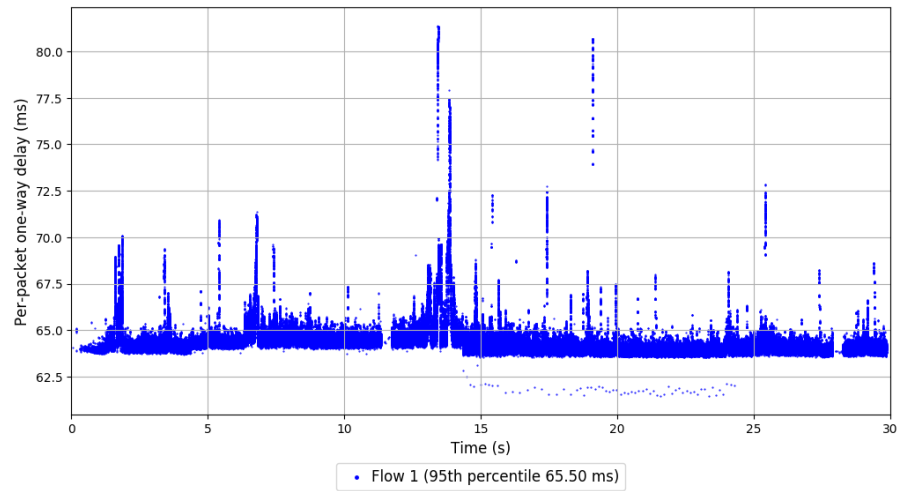
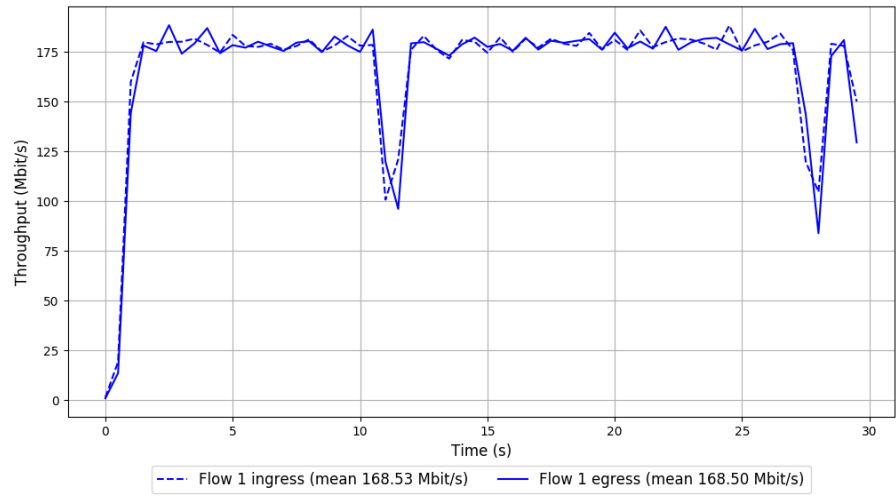
-- Flow 1:

Average throughput: 168.50 Mbit/s

95th percentile per-packet one-way delay: 65.500 ms

Loss rate: 0.44%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-02 10:52:15

End at: 2018-01-02 10:52:45

Below is generated by plot.py at 2018-01-02 13:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.88 Mbit/s

95th percentile per-packet one-way delay: 62.074 ms

Loss rate: 1.06%

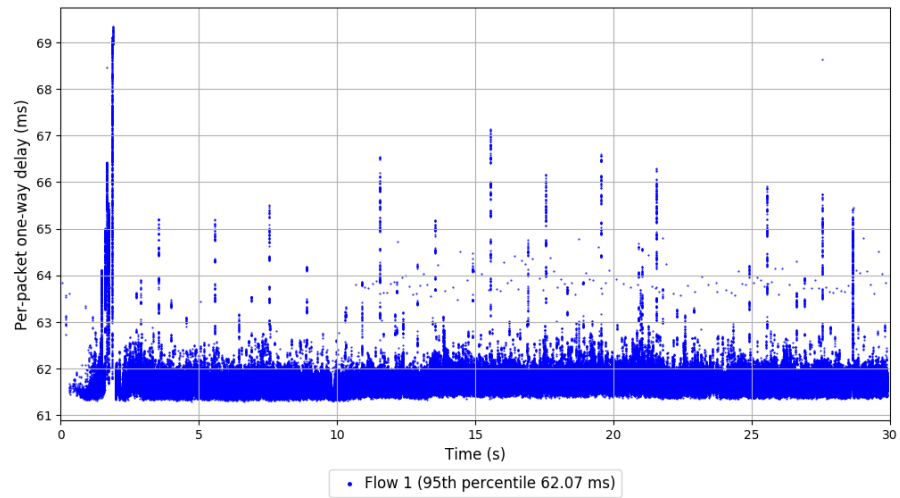
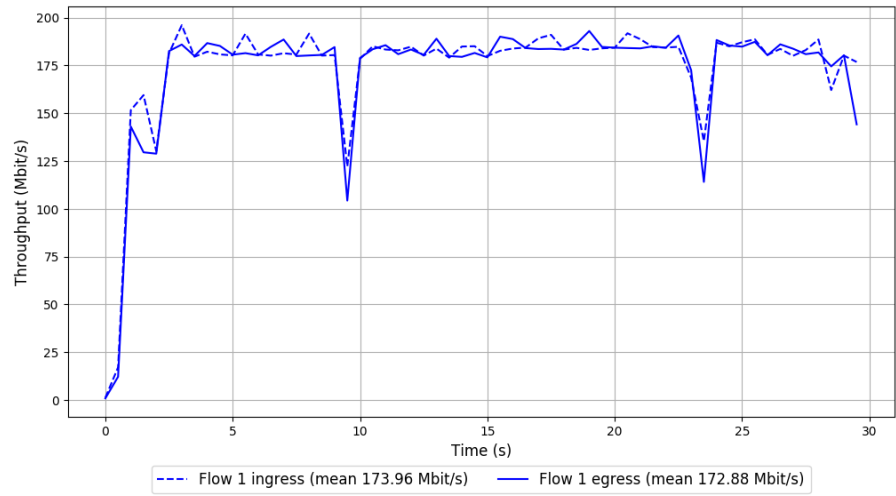
-- Flow 1:

Average throughput: 172.88 Mbit/s

95th percentile per-packet one-way delay: 62.074 ms

Loss rate: 1.06%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-02 11:03:14

End at: 2018-01-02 11:03:44

Below is generated by plot.py at 2018-01-02 13:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.68 Mbit/s

95th percentile per-packet one-way delay: 64.730 ms

Loss rate: 0.87%

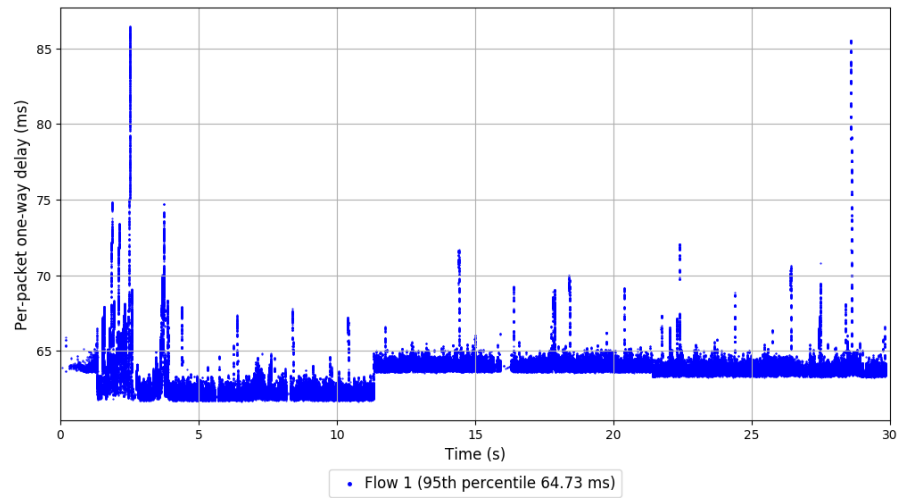
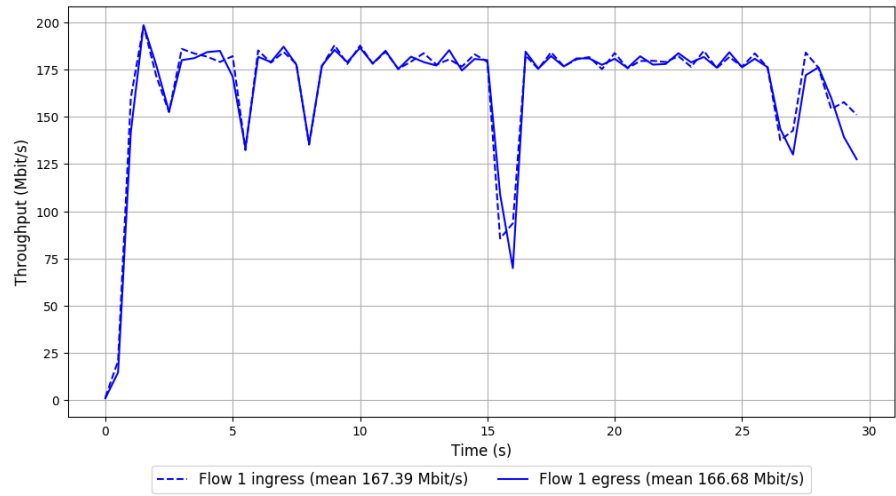
-- Flow 1:

Average throughput: 166.68 Mbit/s

95th percentile per-packet one-way delay: 64.730 ms

Loss rate: 0.87%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-02 11:14:10

End at: 2018-01-02 11:14:40

Below is generated by plot.py at 2018-01-02 13:36:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.47 Mbit/s

95th percentile per-packet one-way delay: 76.409 ms

Loss rate: 0.60%

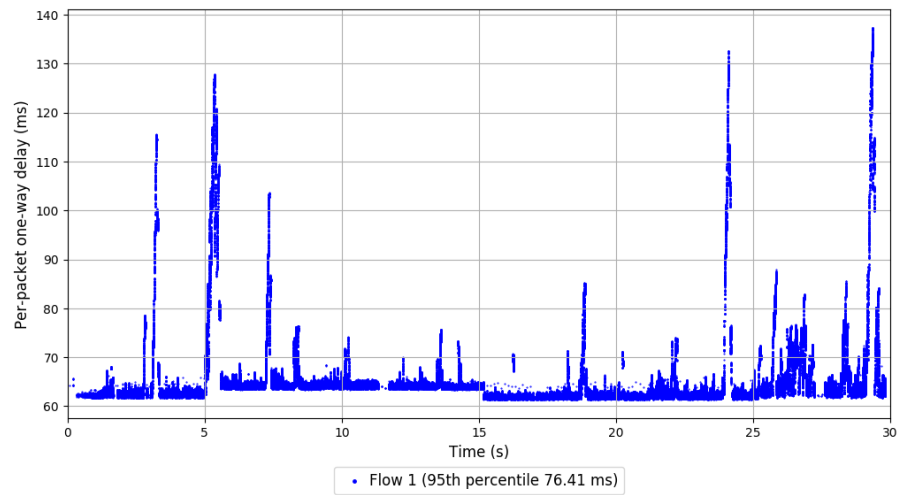
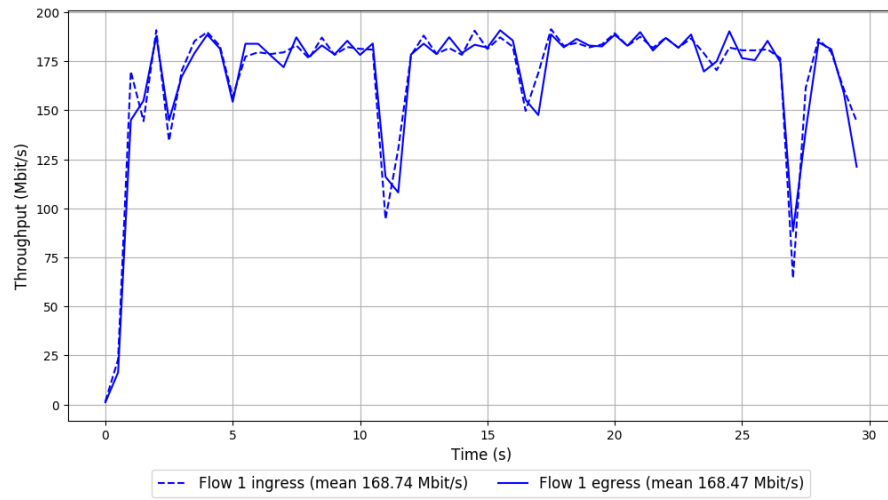
-- Flow 1:

Average throughput: 168.47 Mbit/s

95th percentile per-packet one-way delay: 76.409 ms

Loss rate: 0.60%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-02 11:24:43

End at: 2018-01-02 11:25:13

Below is generated by plot.py at 2018-01-02 13:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.15 Mbit/s

95th percentile per-packet one-way delay: 64.450 ms

Loss rate: 0.74%

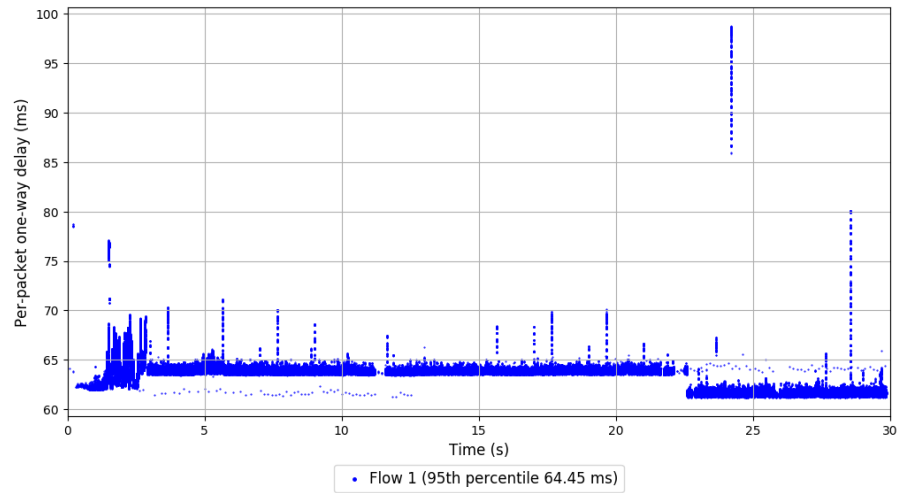
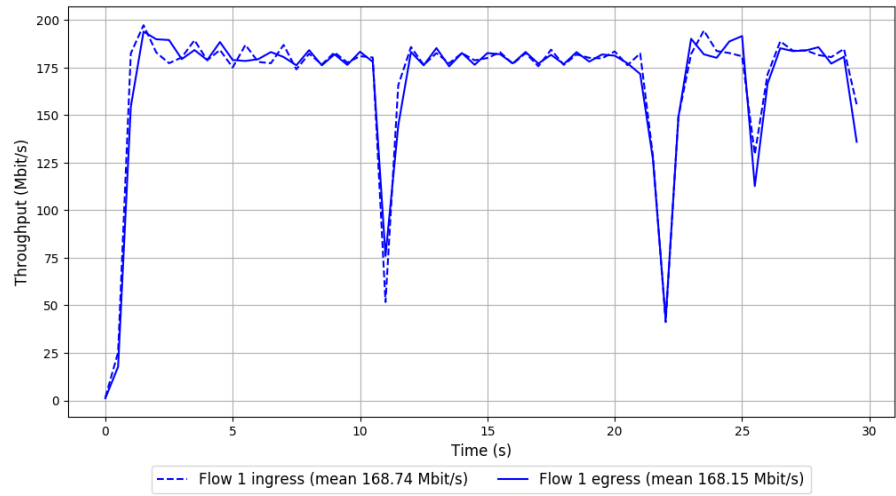
-- Flow 1:

Average throughput: 168.15 Mbit/s

95th percentile per-packet one-way delay: 64.450 ms

Loss rate: 0.74%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-02 09:41:07

End at: 2018-01-02 09:41:37

Below is generated by plot.py at 2018-01-02 13:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 71.724 ms

Loss rate: 1.00%

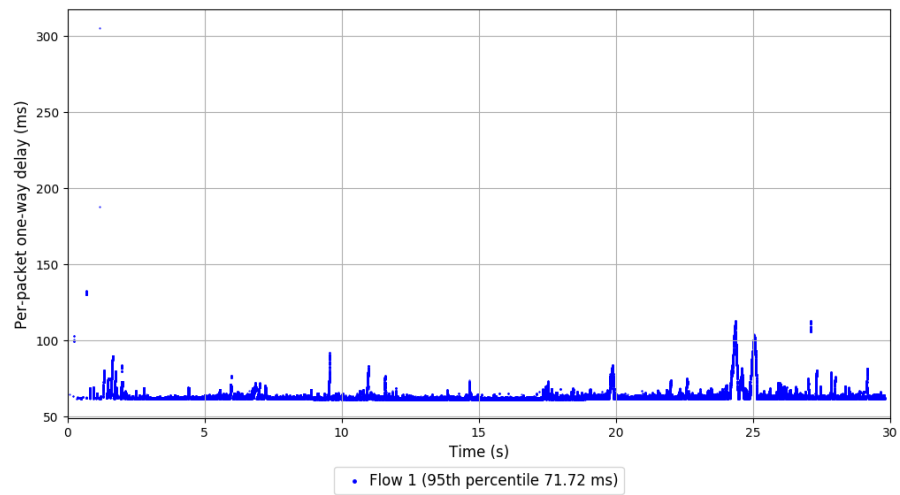
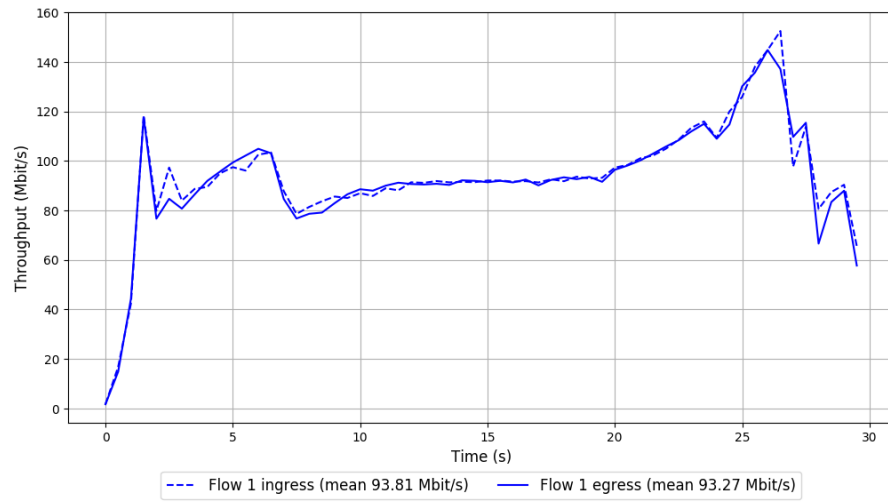
-- Flow 1:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 71.724 ms

Loss rate: 1.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-02 09:52:43

End at: 2018-01-02 09:53:13

Below is generated by plot.py at 2018-01-02 13:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.24 Mbit/s

95th percentile per-packet one-way delay: 64.624 ms

Loss rate: 1.34%

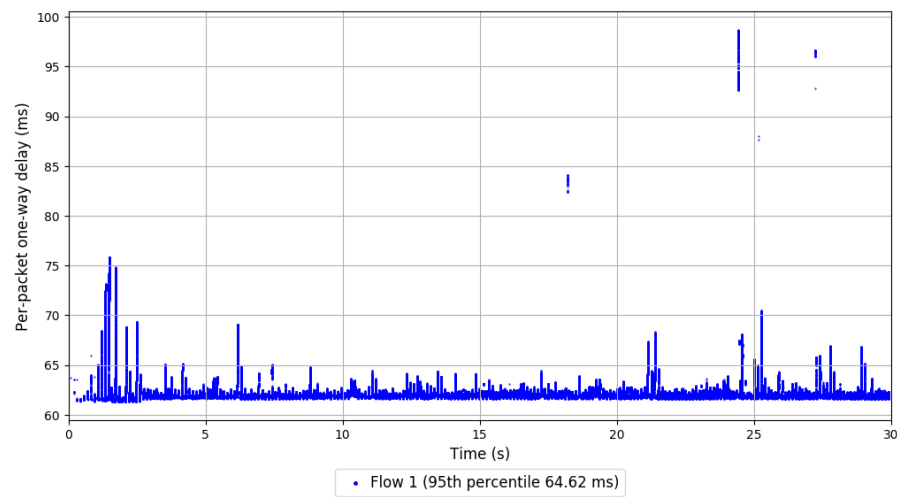
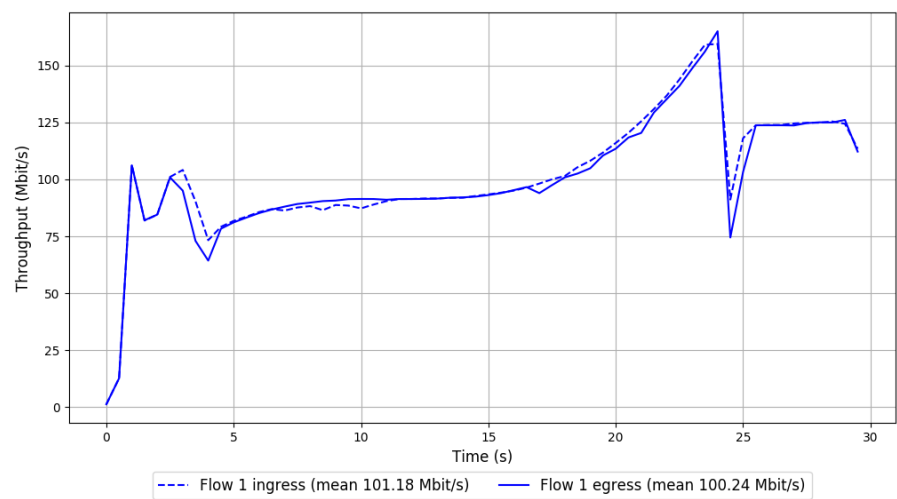
-- Flow 1:

Average throughput: 100.24 Mbit/s

95th percentile per-packet one-way delay: 64.624 ms

Loss rate: 1.34%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-02 10:04:15

End at: 2018-01-02 10:04:45

Below is generated by plot.py at 2018-01-02 13:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.27 Mbit/s

95th percentile per-packet one-way delay: 68.224 ms

Loss rate: 0.74%

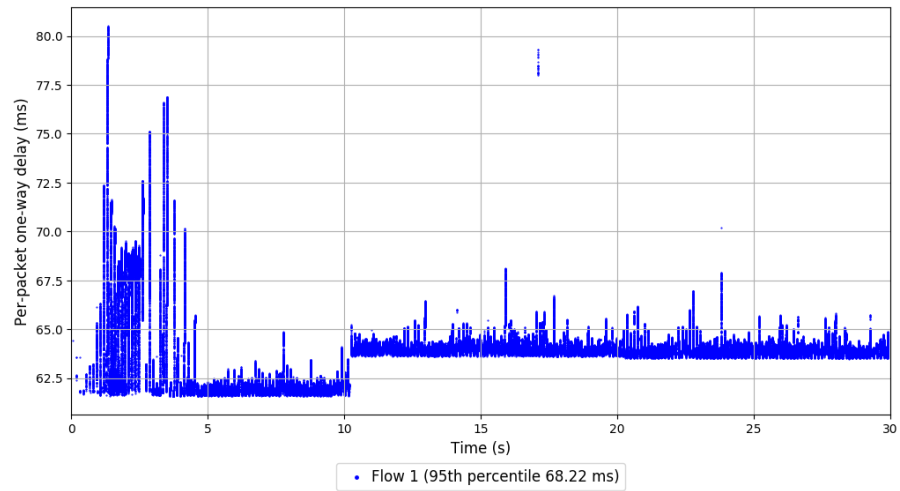
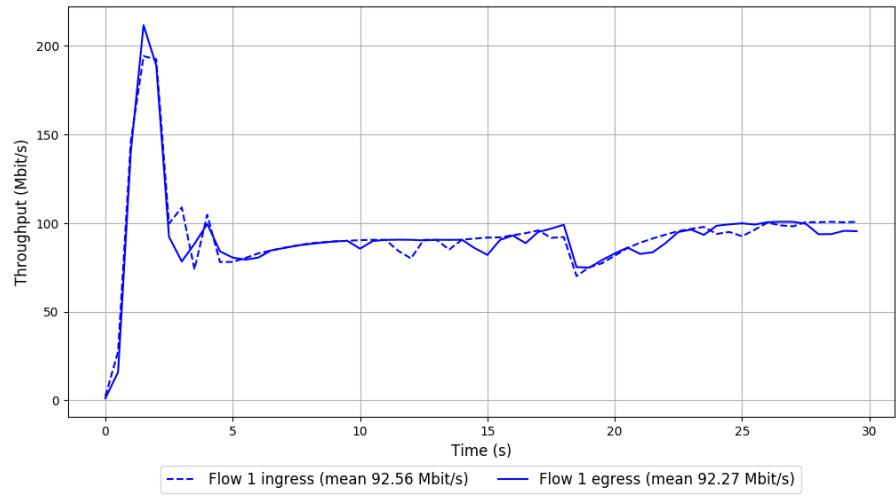
-- Flow 1:

Average throughput: 92.27 Mbit/s

95th percentile per-packet one-way delay: 68.224 ms

Loss rate: 0.74%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-02 10:15:47

End at: 2018-01-02 10:16:17

Below is generated by plot.py at 2018-01-02 13:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.63 Mbit/s

95th percentile per-packet one-way delay: 71.303 ms

Loss rate: 1.30%

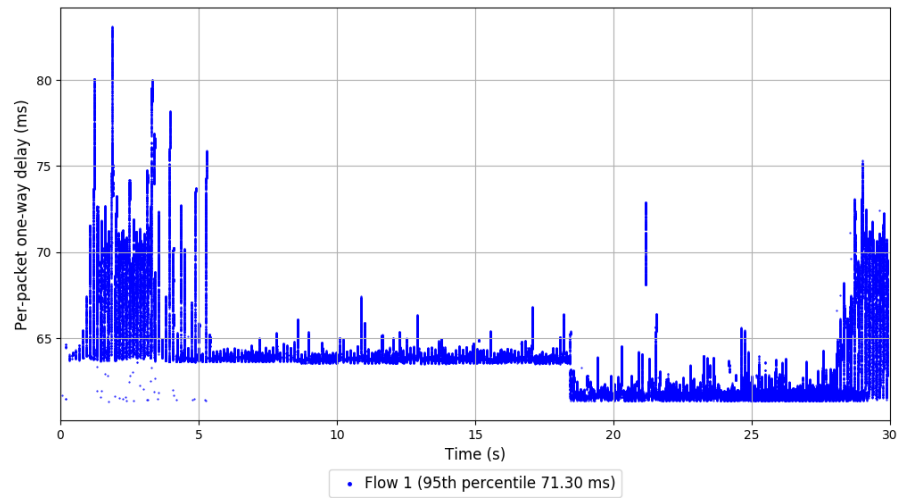
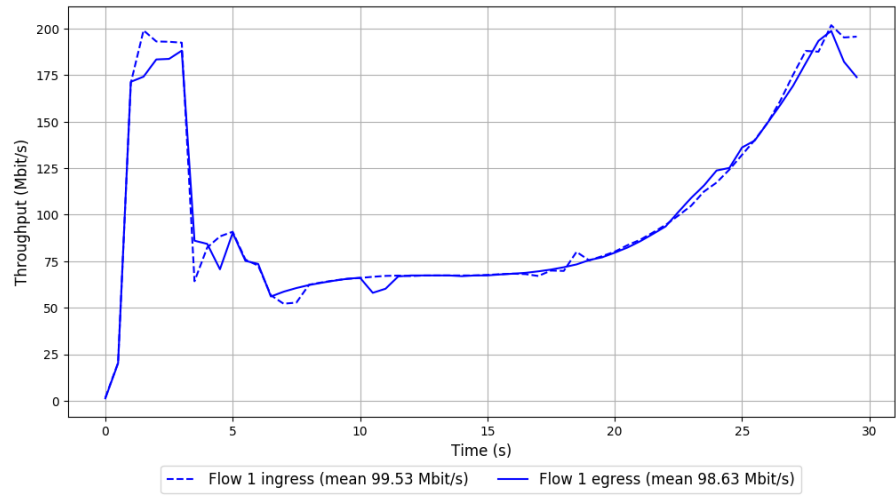
-- Flow 1:

Average throughput: 98.63 Mbit/s

95th percentile per-packet one-way delay: 71.303 ms

Loss rate: 1.30%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-02 10:27:41

End at: 2018-01-02 10:28:11

Below is generated by plot.py at 2018-01-02 13:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.44 Mbit/s

95th percentile per-packet one-way delay: 70.690 ms

Loss rate: 0.41%

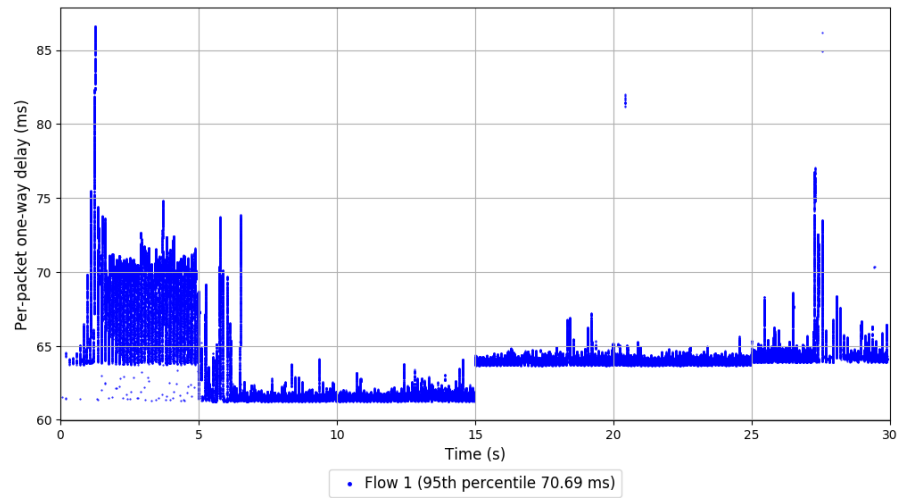
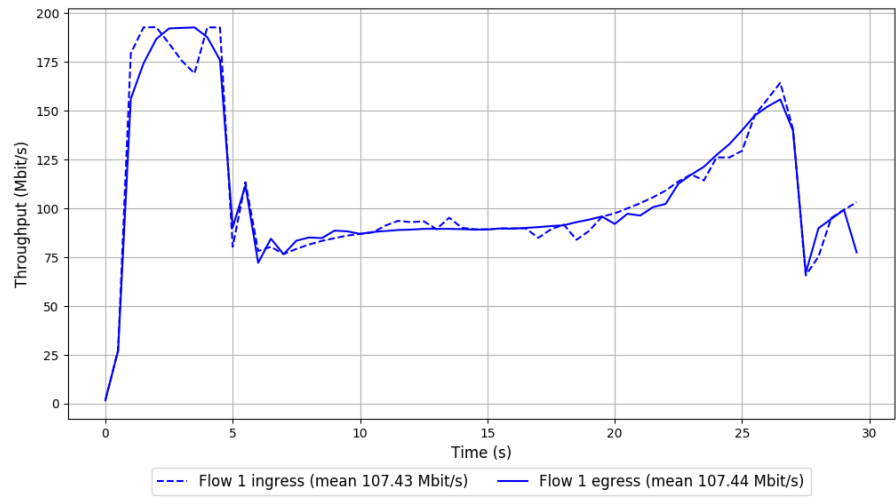
-- Flow 1:

Average throughput: 107.44 Mbit/s

95th percentile per-packet one-way delay: 70.690 ms

Loss rate: 0.41%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-02 10:39:14

End at: 2018-01-02 10:39:44

Below is generated by plot.py at 2018-01-02 13:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.77 Mbit/s

95th percentile per-packet one-way delay: 64.898 ms

Loss rate: 1.58%

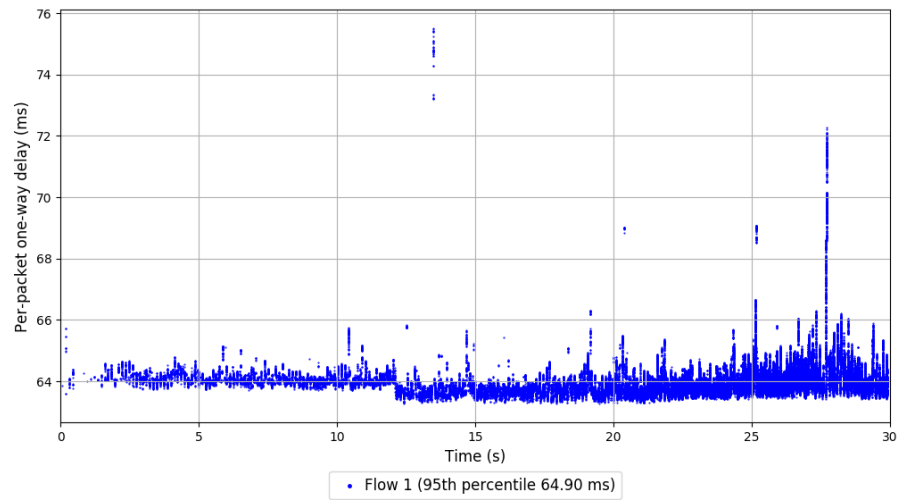
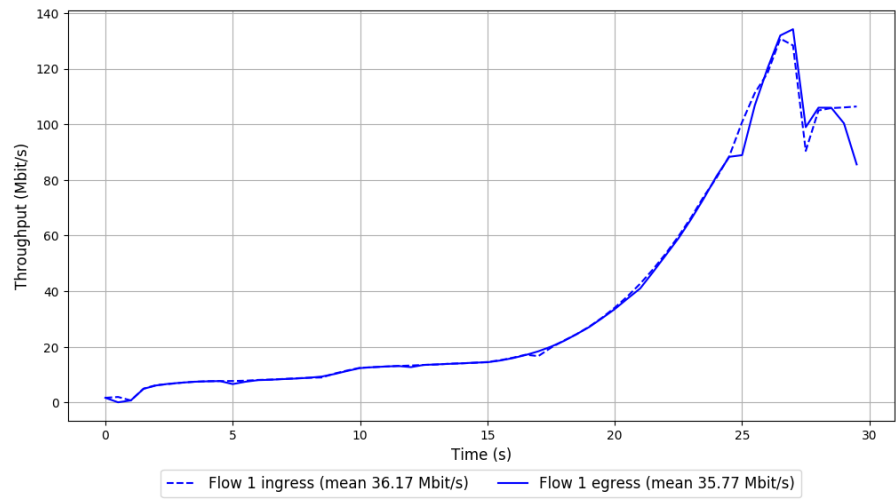
-- Flow 1:

Average throughput: 35.77 Mbit/s

95th percentile per-packet one-way delay: 64.898 ms

Loss rate: 1.58%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-02 10:50:15

End at: 2018-01-02 10:50:45

Below is generated by plot.py at 2018-01-02 13:36:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.60 Mbit/s

95th percentile per-packet one-way delay: 68.778 ms

Loss rate: 0.38%

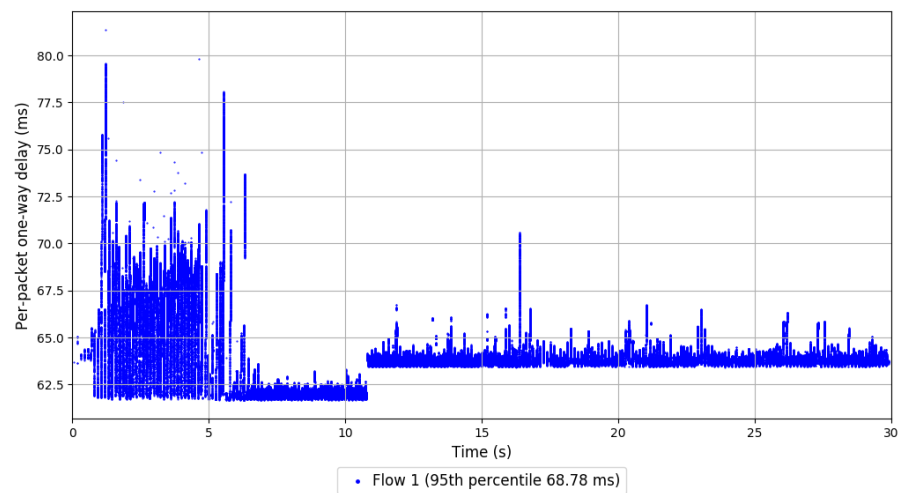
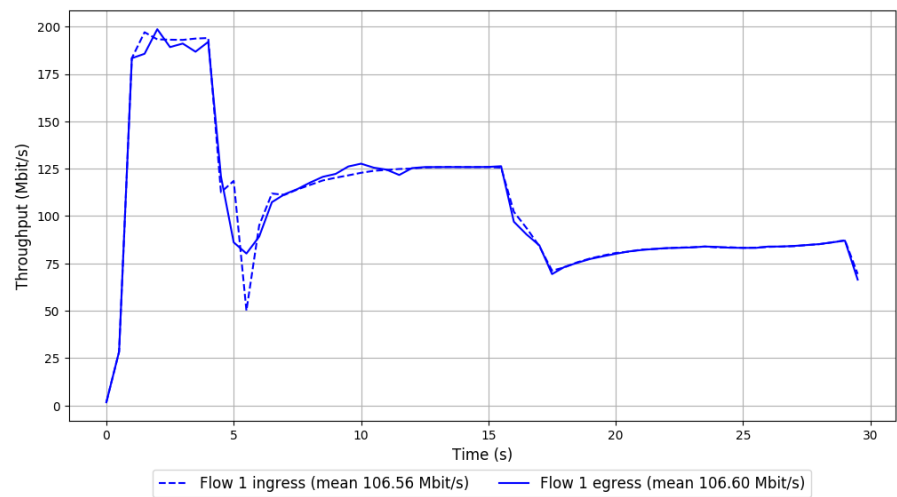
-- Flow 1:

Average throughput: 106.60 Mbit/s

95th percentile per-packet one-way delay: 68.778 ms

Loss rate: 0.38%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

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

End at: 2018-01-02 11:01:42

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.00 Mbit/s

95th percentile per-packet one-way delay: 67.442 ms

Loss rate: 0.37%

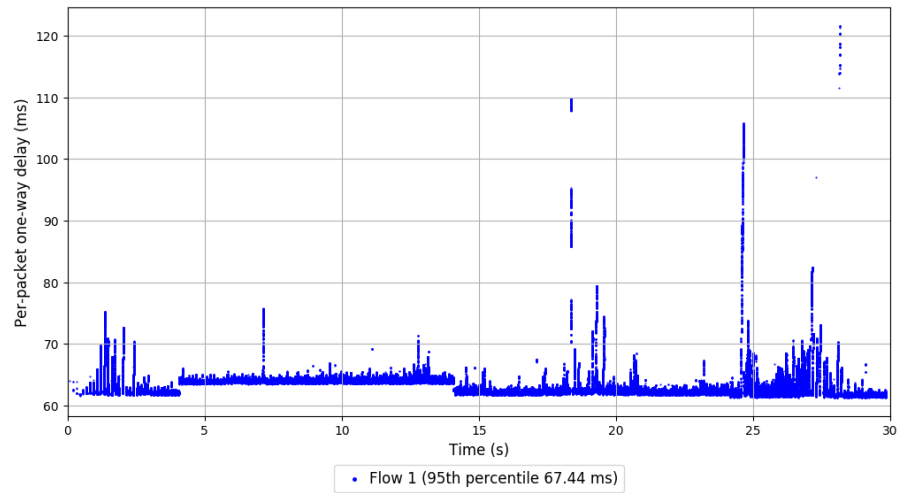
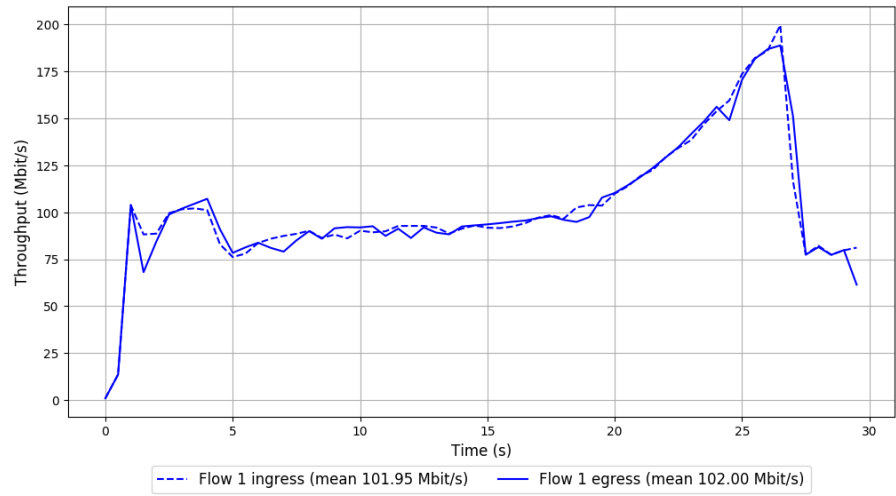
-- Flow 1:

Average throughput: 102.00 Mbit/s

95th percentile per-packet one-way delay: 67.442 ms

Loss rate: 0.37%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-02 11:12:10

End at: 2018-01-02 11:12:40

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.31 Mbit/s

95th percentile per-packet one-way delay: 65.587 ms

Loss rate: 0.78%

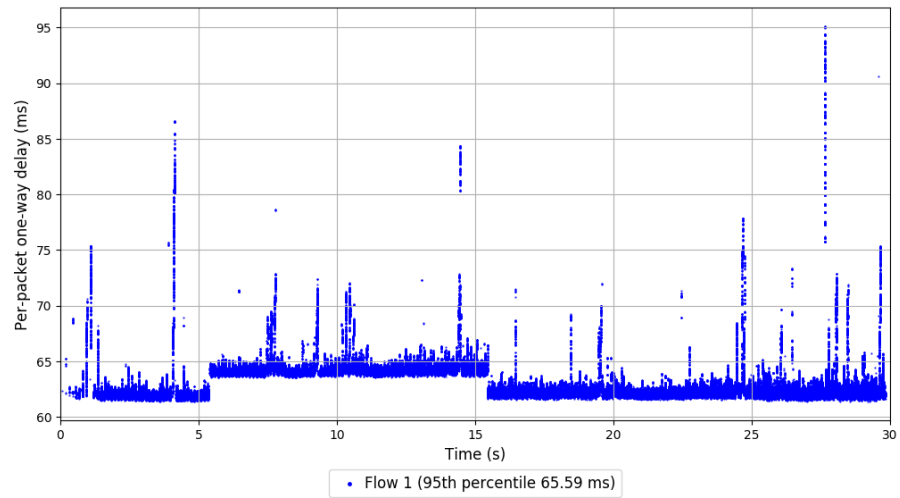
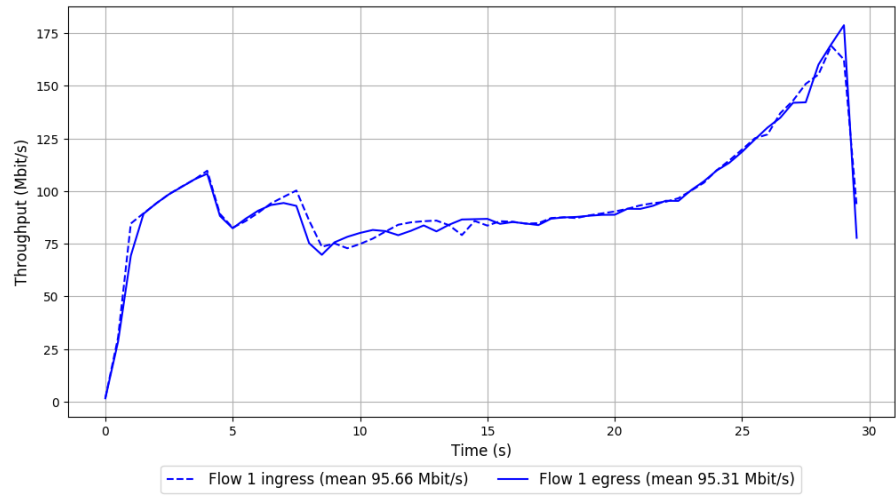
-- Flow 1:

Average throughput: 95.31 Mbit/s

95th percentile per-packet one-way delay: 65.587 ms

Loss rate: 0.78%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-02 11:22:43

End at: 2018-01-02 11:23:13

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.97 Mbit/s

95th percentile per-packet one-way delay: 64.898 ms

Loss rate: 2.12%

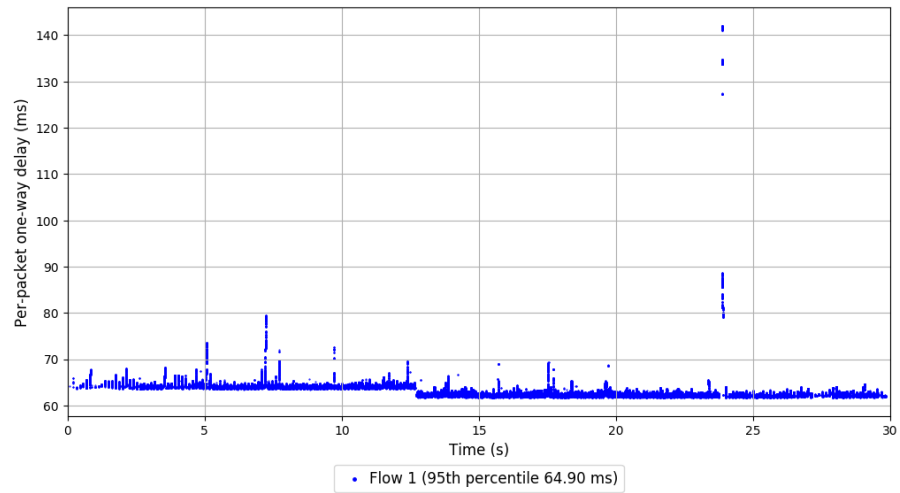
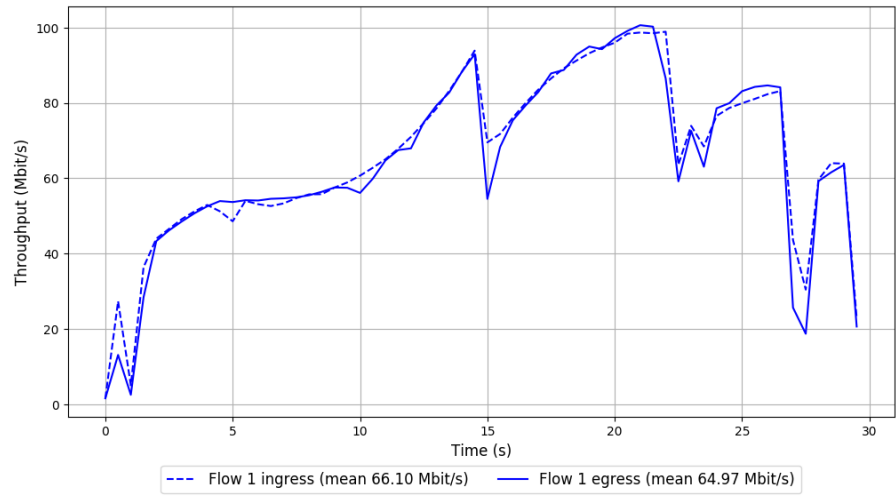
-- Flow 1:

Average throughput: 64.97 Mbit/s

95th percentile per-packet one-way delay: 64.898 ms

Loss rate: 2.12%

Run 10: Report of TCP Cubic — Data Link

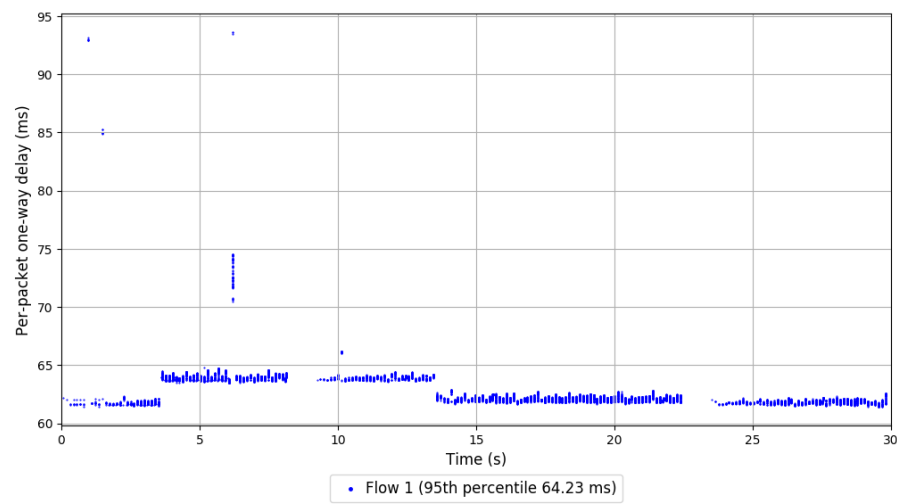
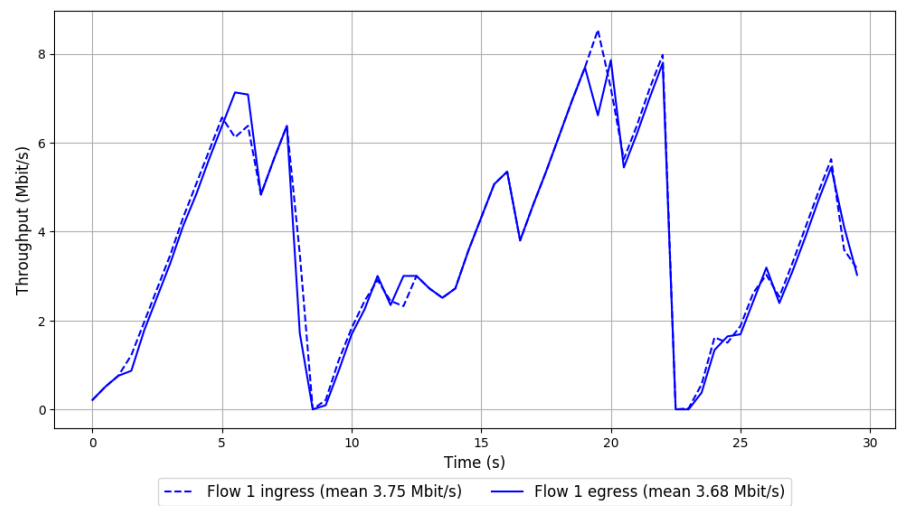


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-02 09:49:02
End at: 2018-01-02 09:49:32

# Below is generated by plot.py at 2018-01-02 13:36:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 64.226 ms
Loss rate: 2.21%
-- Flow 1:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 64.226 ms
Loss rate: 2.21%
```

Run 1: Report of LEDBAT — Data Link

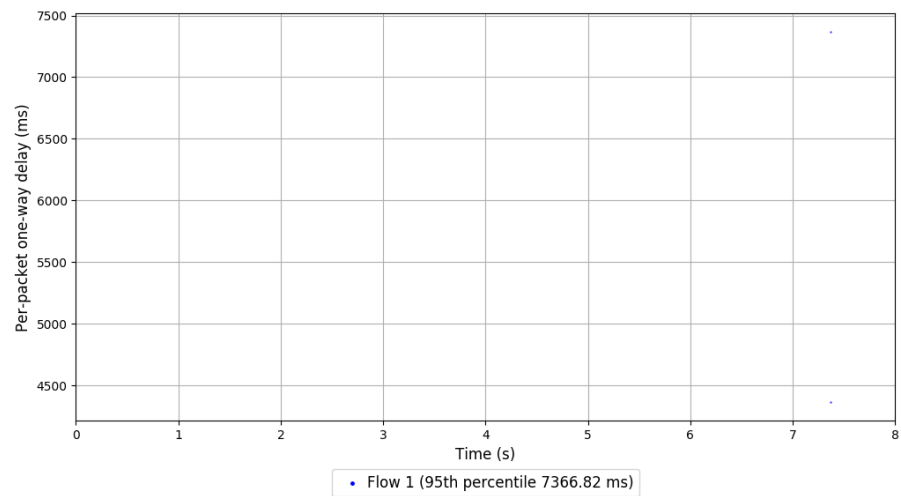
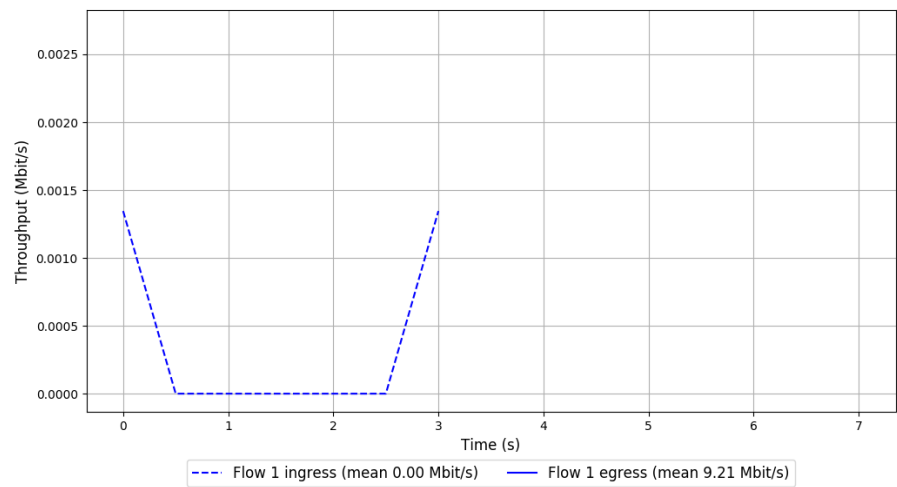


Run 2: Statistics of LEDBAT

Start at: 2018-01-02 10:00:37

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

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-02 10:12:17

End at: 2018-01-02 10:12:47

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.74 Mbit/s

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

Loss rate: 2.18%

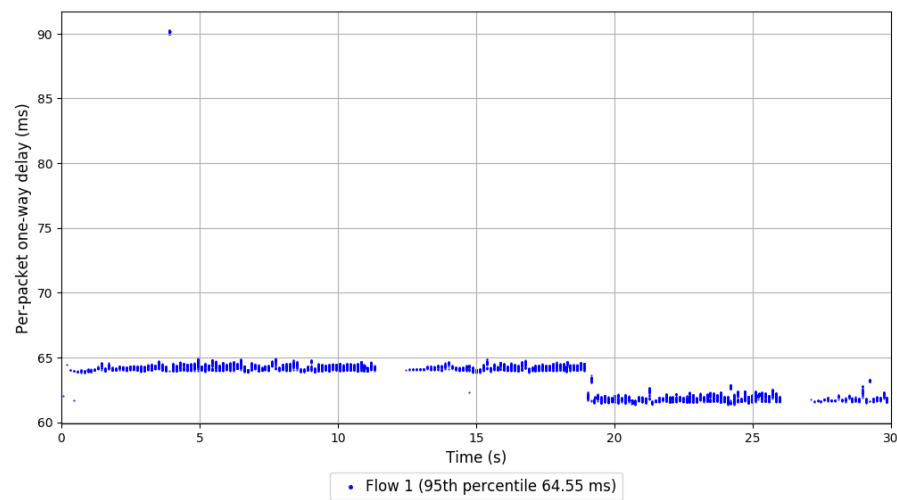
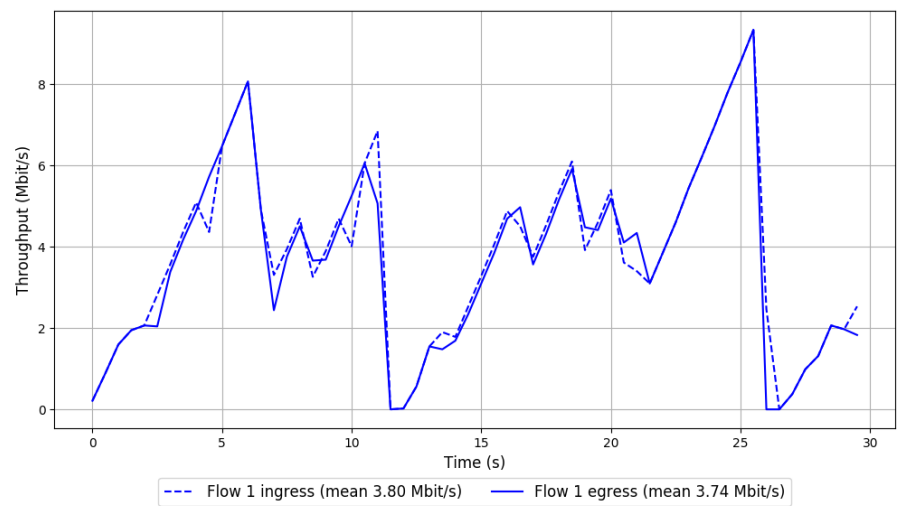
-- Flow 1:

Average throughput: 3.74 Mbit/s

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

Loss rate: 2.18%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-02 10:23:55

End at: 2018-01-02 10:24:25

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 64.576 ms

Loss rate: 1.59%

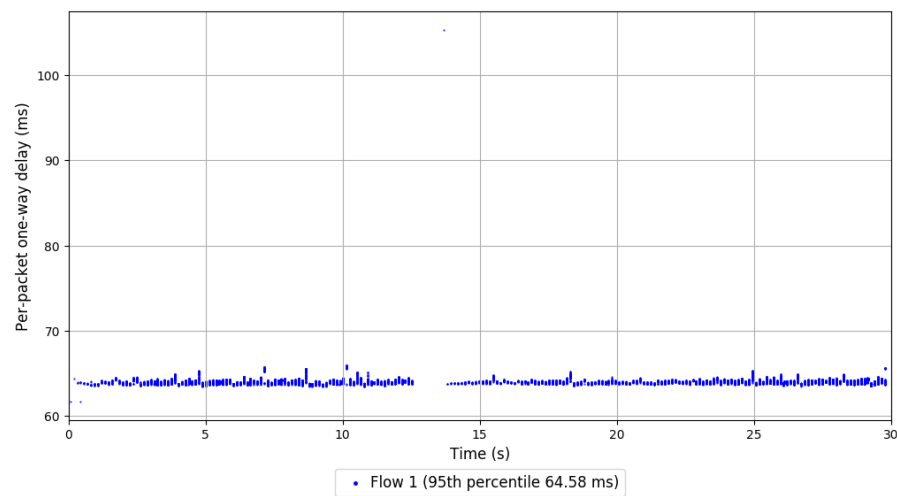
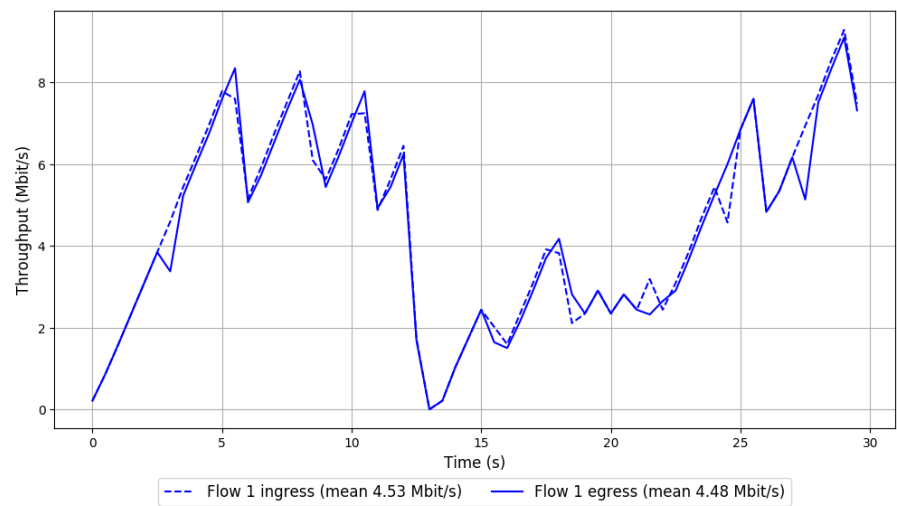
-- Flow 1:

Average throughput: 4.48 Mbit/s

95th percentile per-packet one-way delay: 64.576 ms

Loss rate: 1.59%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-02 10:35:40

End at: 2018-01-02 10:36:10

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 64.238 ms

Loss rate: 2.11%

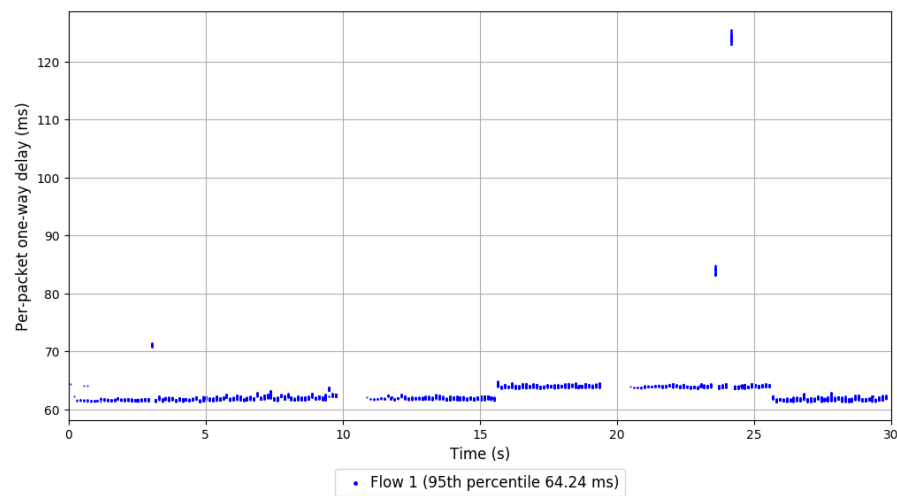
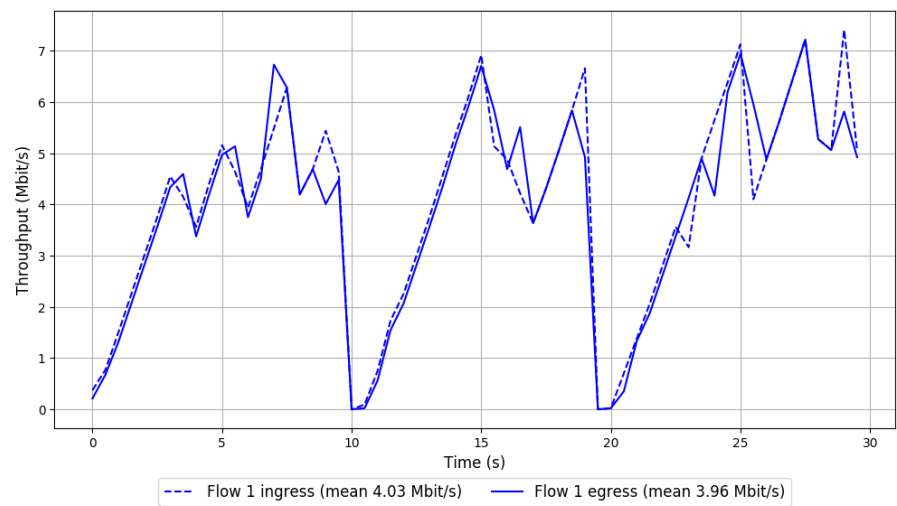
-- Flow 1:

Average throughput: 3.96 Mbit/s

95th percentile per-packet one-way delay: 64.238 ms

Loss rate: 2.11%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-02 10:46:42

End at: 2018-01-02 10:47:12

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 65.205 ms

Loss rate: 0.53%

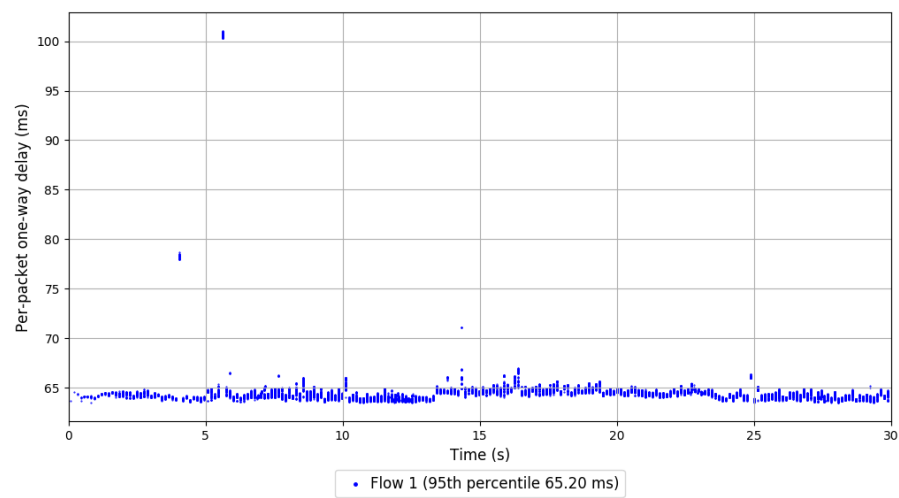
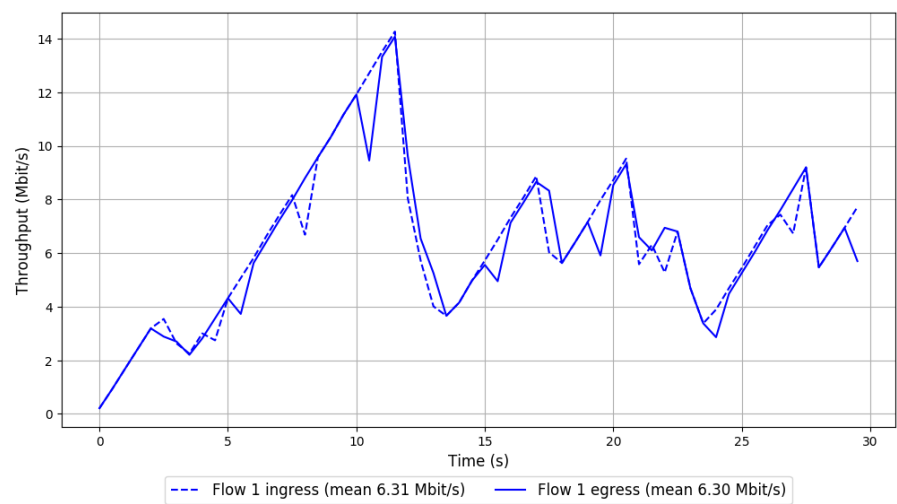
-- Flow 1:

Average throughput: 6.30 Mbit/s

95th percentile per-packet one-way delay: 65.205 ms

Loss rate: 0.53%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-02 10:57:39

End at: 2018-01-02 10:58:09

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 64.895 ms

Loss rate: 2.31%

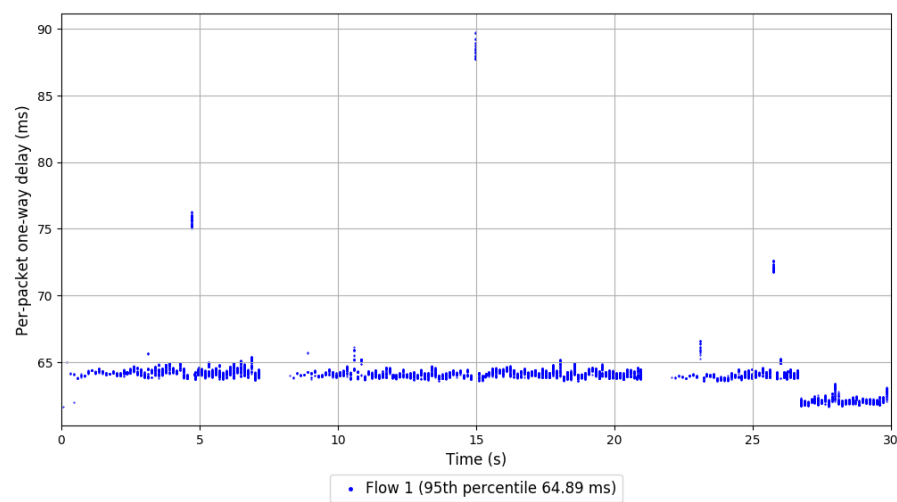
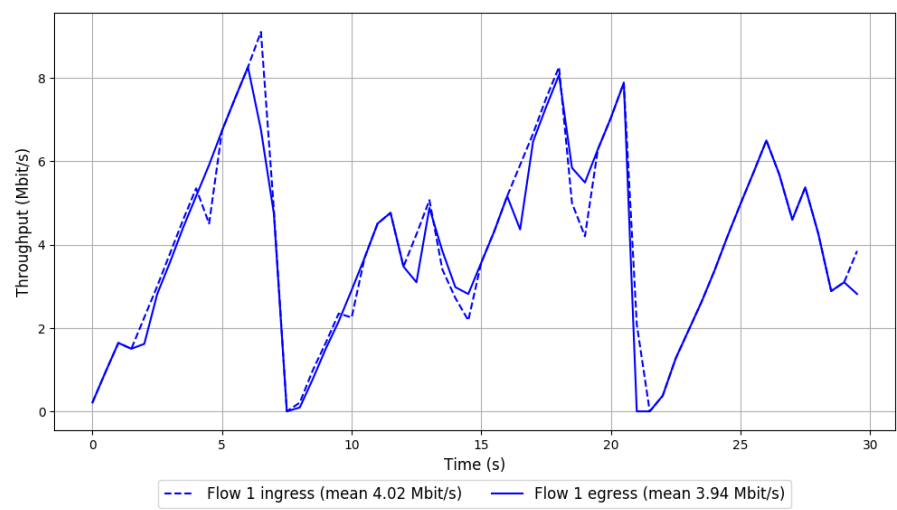
-- Flow 1:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 64.895 ms

Loss rate: 2.31%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-02 11:08:43

End at: 2018-01-02 11:09:13

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 65.032 ms

Loss rate: 2.41%

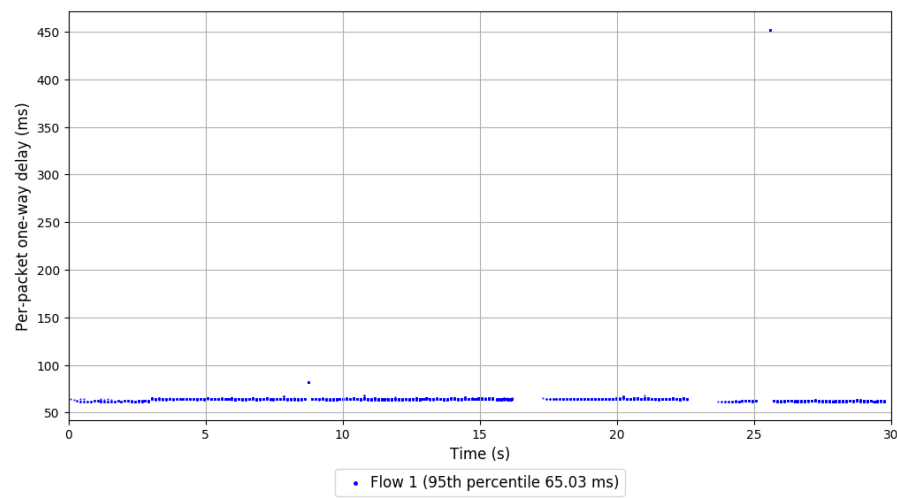
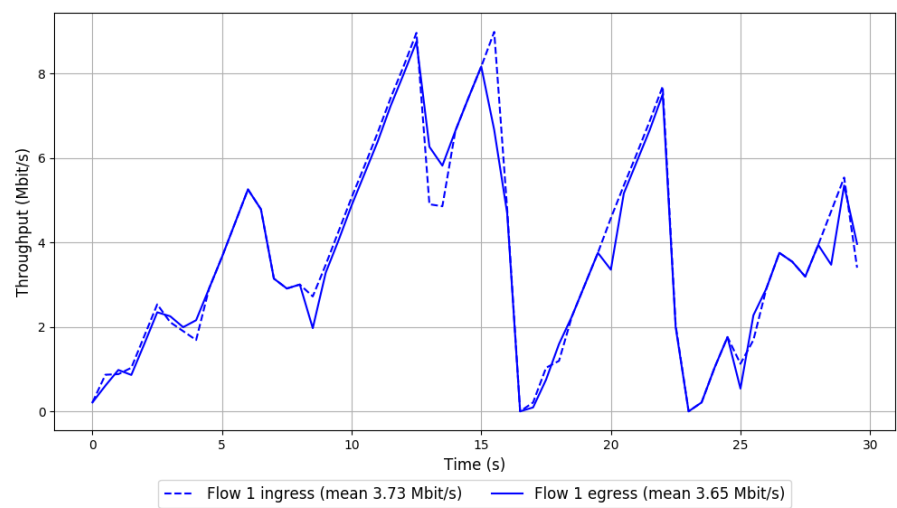
-- Flow 1:

Average throughput: 3.65 Mbit/s

95th percentile per-packet one-way delay: 65.032 ms

Loss rate: 2.41%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-02 11:19:20

End at: 2018-01-02 11:19:50

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 65.500 ms

Loss rate: 1.95%

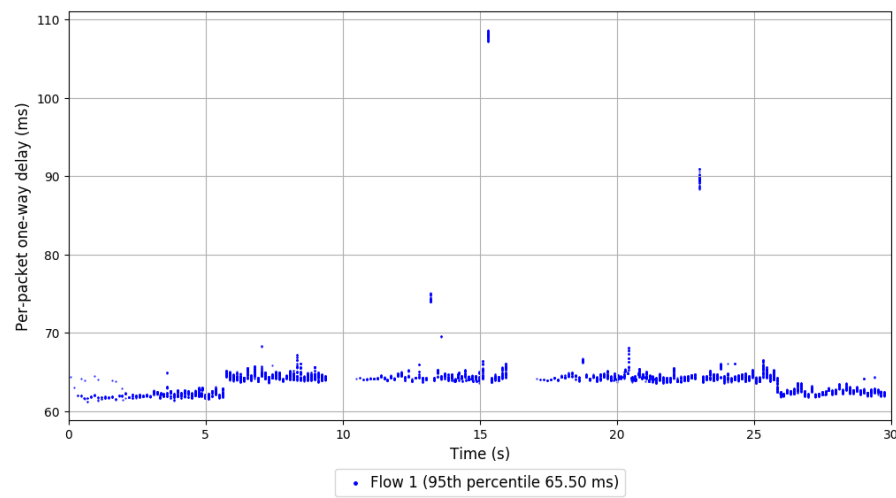
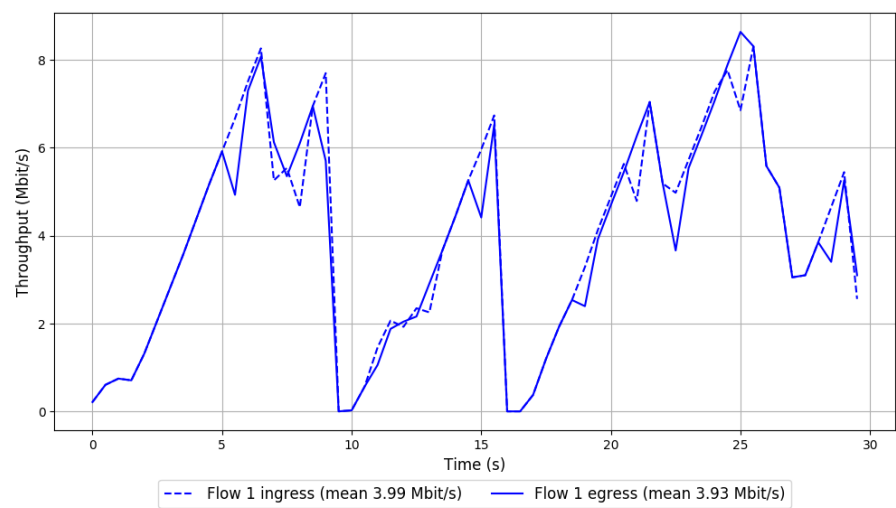
-- Flow 1:

Average throughput: 3.93 Mbit/s

95th percentile per-packet one-way delay: 65.500 ms

Loss rate: 1.95%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-02 11:30:04

End at: 2018-01-02 11:30:34

Below is generated by plot.py at 2018-01-02 13:36:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 65.673 ms

Loss rate: 0.73%

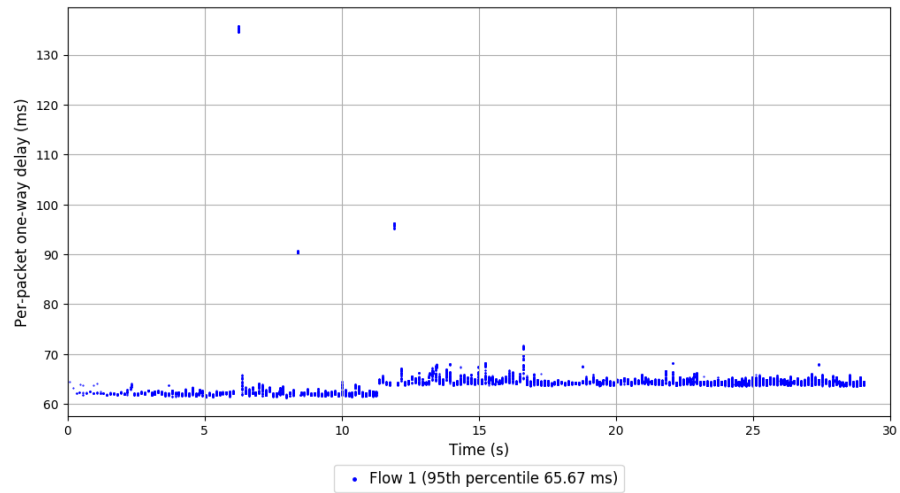
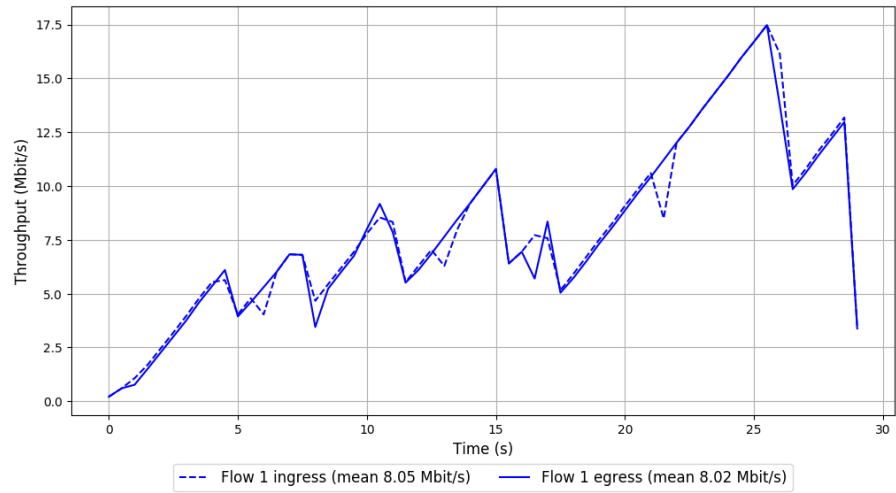
-- Flow 1:

Average throughput: 8.02 Mbit/s

95th percentile per-packet one-way delay: 65.673 ms

Loss rate: 0.73%

Run 10: Report of LEDBAT — Data Link

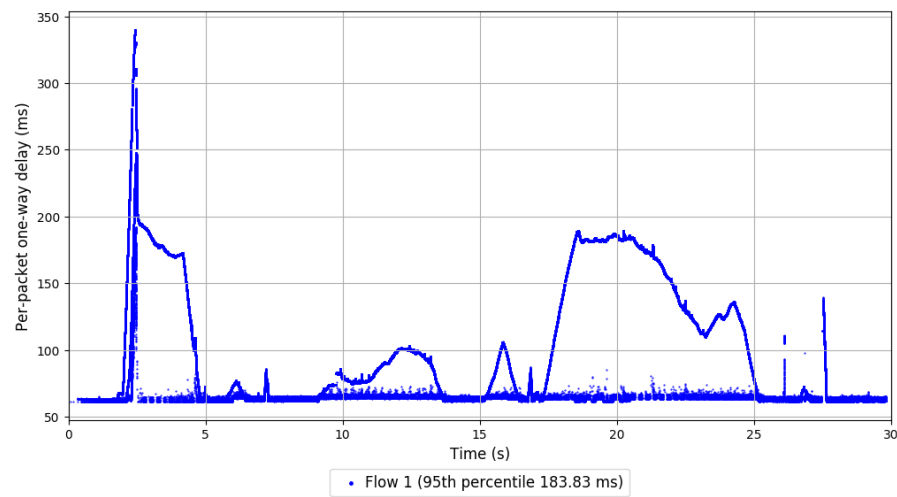
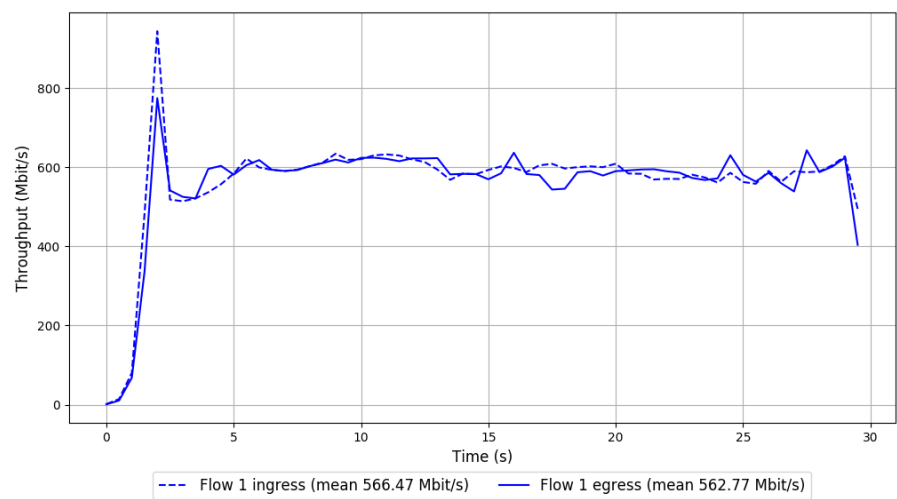


```
Run 1: Statistics of PCC

Start at: 2018-01-02 09:45:39
End at: 2018-01-02 09:46:10

# Below is generated by plot.py at 2018-01-02 13:45:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 562.77 Mbit/s
95th percentile per-packet one-way delay: 183.830 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 562.77 Mbit/s
95th percentile per-packet one-way delay: 183.830 ms
Loss rate: 1.07%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-02 09:57:16

End at: 2018-01-02 09:57:46

Below is generated by plot.py at 2018-01-02 13:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.10 Mbit/s

95th percentile per-packet one-way delay: 188.597 ms

Loss rate: 1.27%

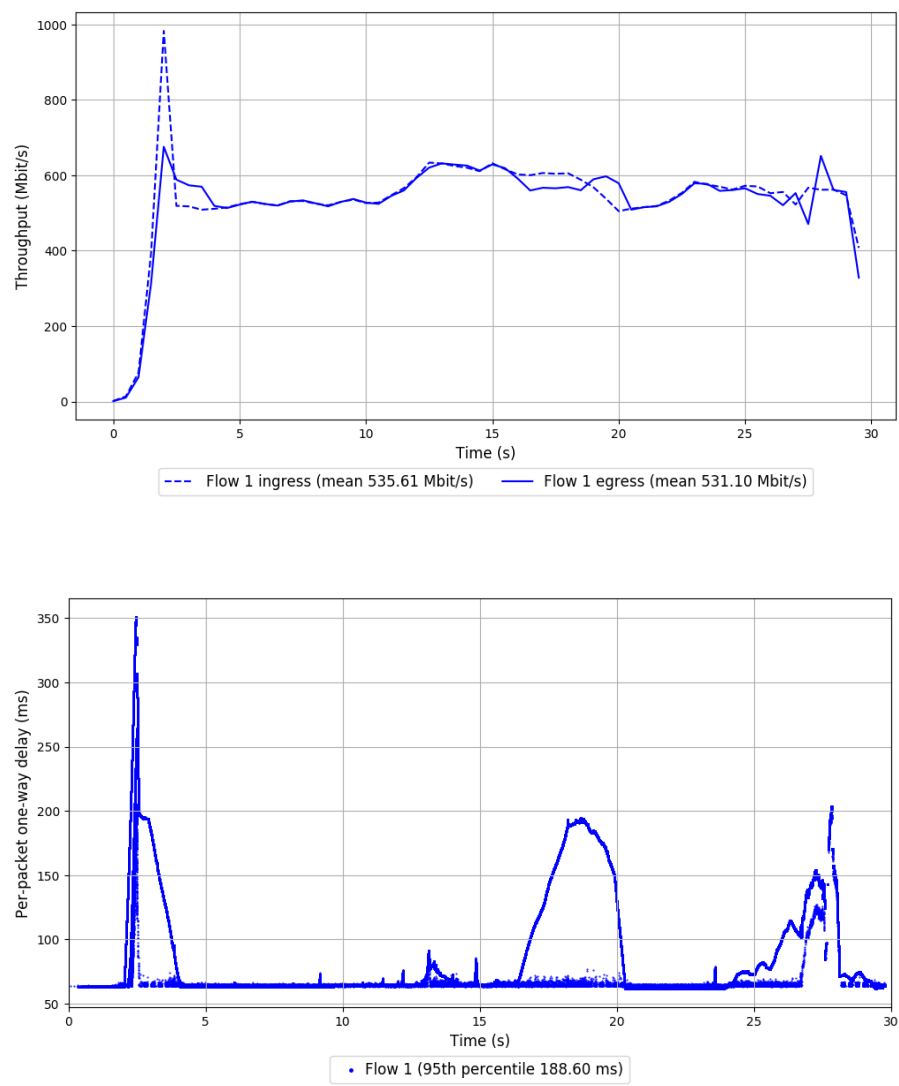
-- Flow 1:

Average throughput: 531.10 Mbit/s

95th percentile per-packet one-way delay: 188.597 ms

Loss rate: 1.27%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-02 10:08:51

End at: 2018-01-02 10:09:21

Below is generated by plot.py at 2018-01-02 13:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.96 Mbit/s

95th percentile per-packet one-way delay: 148.771 ms

Loss rate: 1.39%

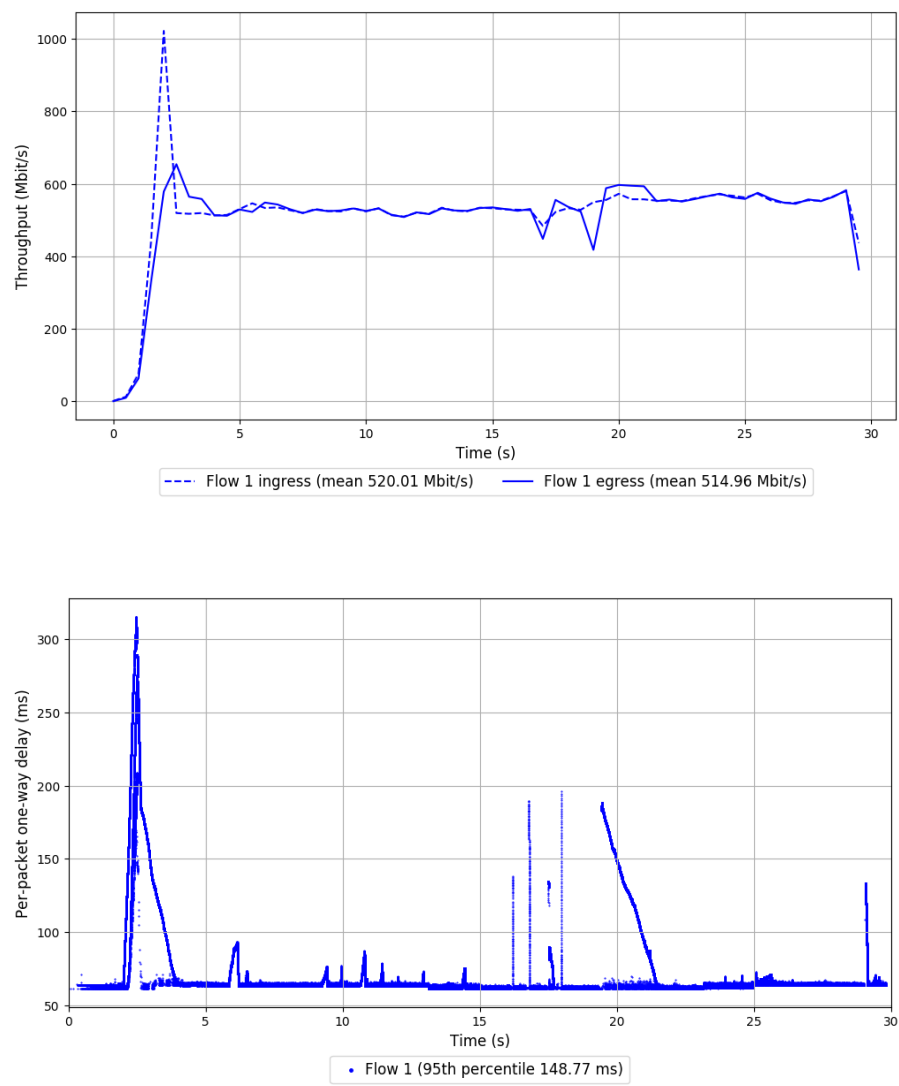
-- Flow 1:

Average throughput: 514.96 Mbit/s

95th percentile per-packet one-way delay: 148.771 ms

Loss rate: 1.39%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-02 10:20:22

End at: 2018-01-02 10:20:52

Below is generated by plot.py at 2018-01-02 13:45:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.04 Mbit/s

95th percentile per-packet one-way delay: 114.708 ms

Loss rate: 0.83%

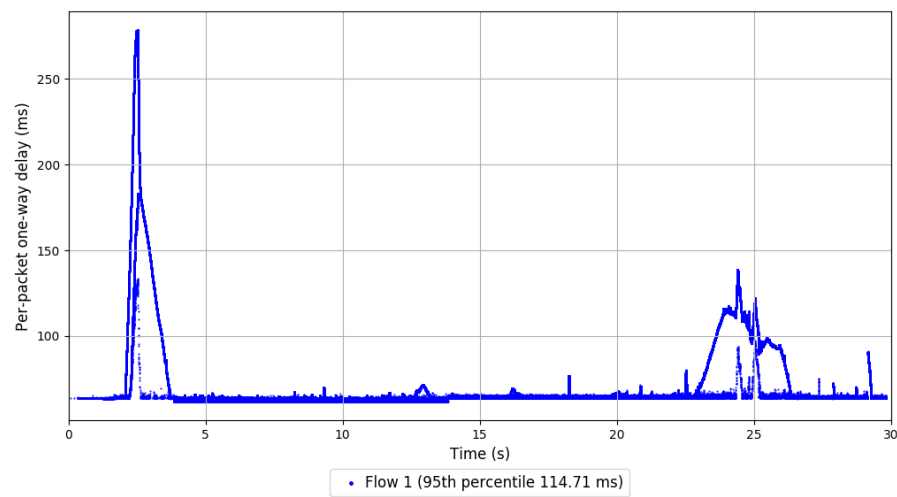
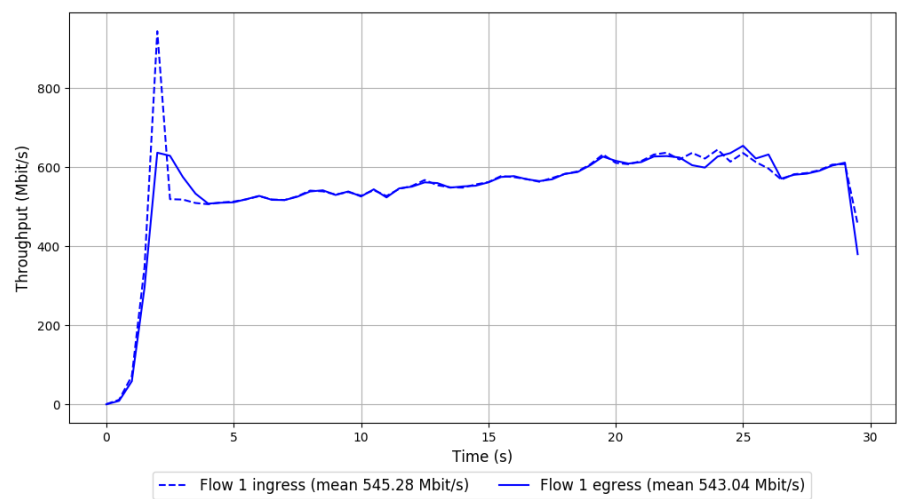
-- Flow 1:

Average throughput: 543.04 Mbit/s

95th percentile per-packet one-way delay: 114.708 ms

Loss rate: 0.83%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-02 10:32:16

End at: 2018-01-02 10:32:46

Below is generated by plot.py at 2018-01-02 13:45:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.63 Mbit/s

95th percentile per-packet one-way delay: 151.761 ms

Loss rate: 1.75%

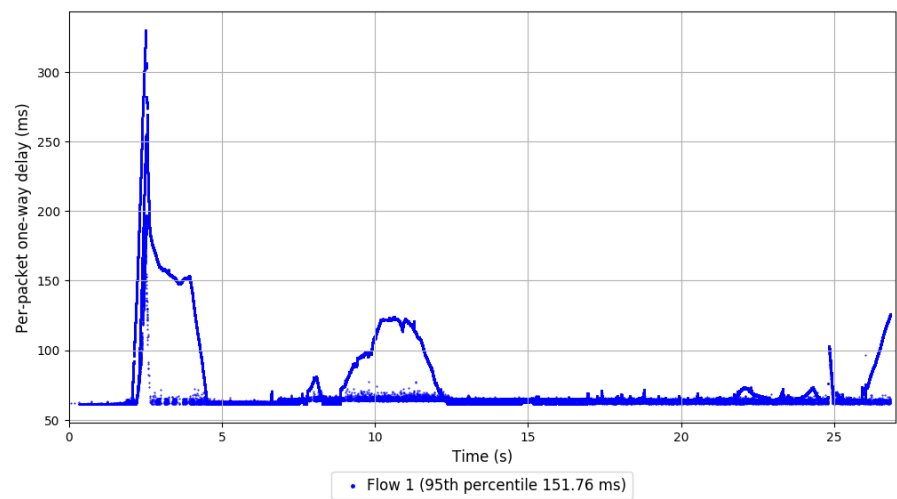
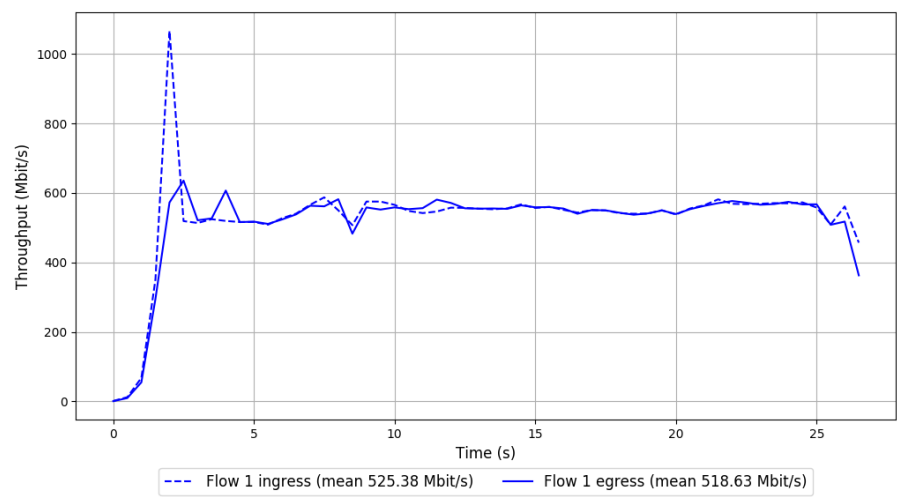
-- Flow 1:

Average throughput: 518.63 Mbit/s

95th percentile per-packet one-way delay: 151.761 ms

Loss rate: 1.75%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-02 10:43:24

End at: 2018-01-02 10:43:54

Below is generated by plot.py at 2018-01-02 13:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.93 Mbit/s

95th percentile per-packet one-way delay: 121.345 ms

Loss rate: 0.88%

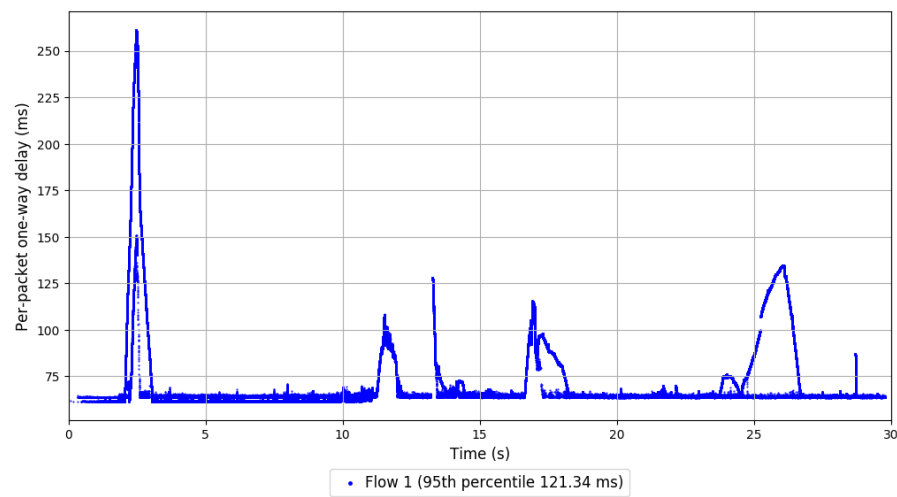
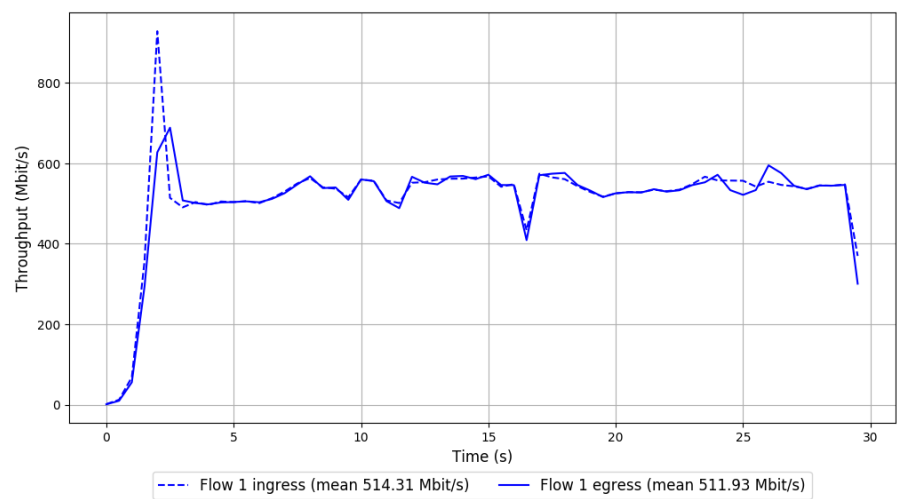
-- Flow 1:

Average throughput: 511.93 Mbit/s

95th percentile per-packet one-way delay: 121.345 ms

Loss rate: 0.88%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-02 10:54:24

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

Below is generated by plot.py at 2018-01-02 13:45:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.15 Mbit/s

95th percentile per-packet one-way delay: 100.350 ms

Loss rate: 0.42%

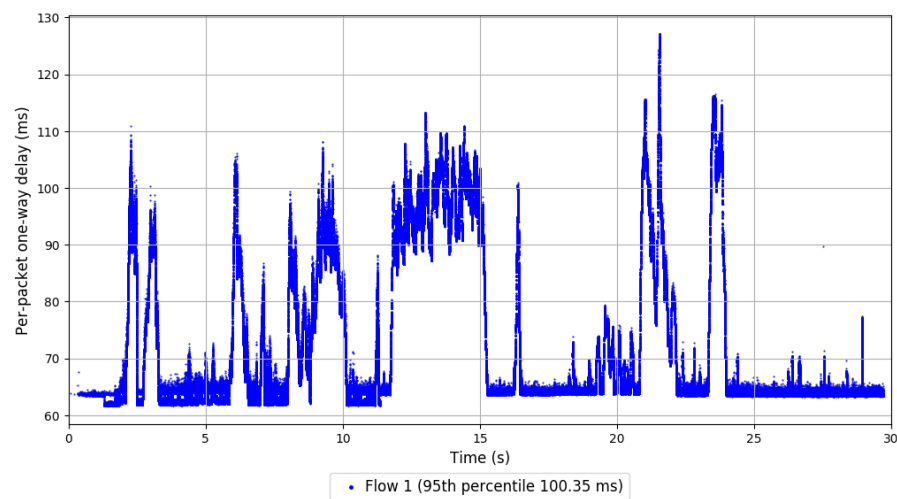
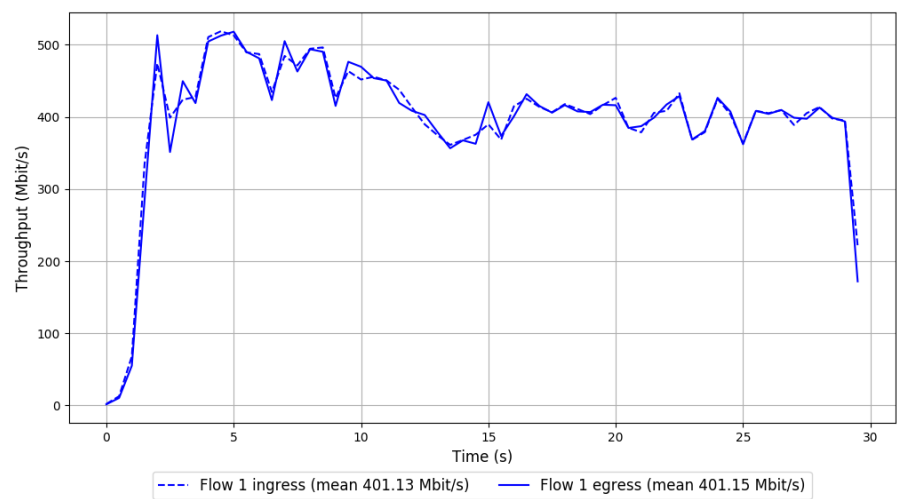
-- Flow 1:

Average throughput: 401.15 Mbit/s

95th percentile per-packet one-way delay: 100.350 ms

Loss rate: 0.42%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-02 11:05:33

End at: 2018-01-02 11:06:03

Below is generated by plot.py at 2018-01-02 13:46:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 533.59 Mbit/s

95th percentile per-packet one-way delay: 86.260 ms

Loss rate: 0.75%

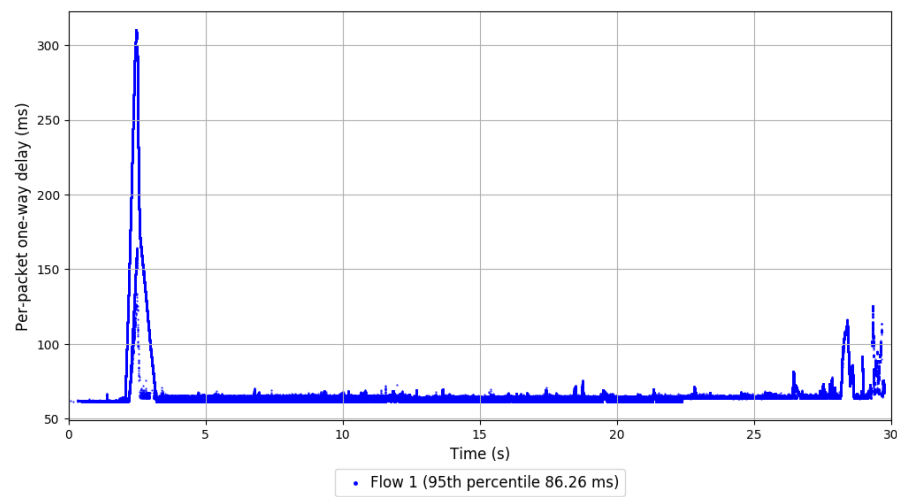
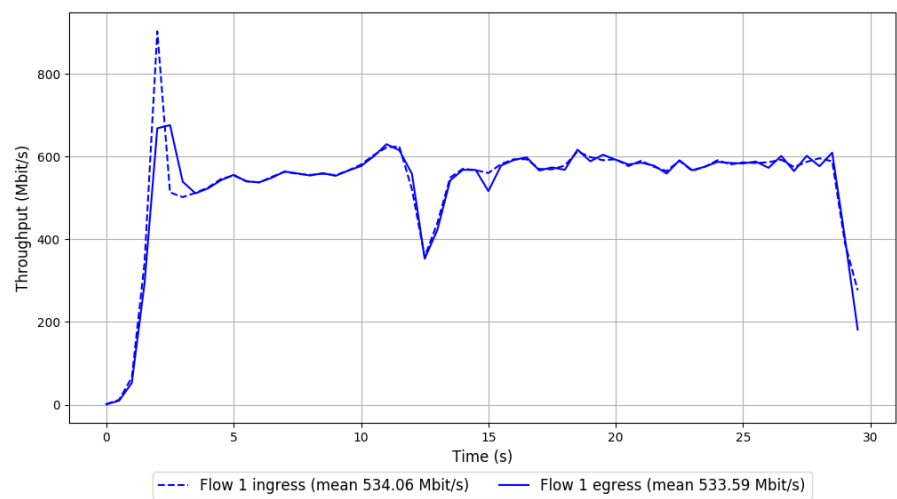
-- Flow 1:

Average throughput: 533.59 Mbit/s

95th percentile per-packet one-way delay: 86.260 ms

Loss rate: 0.75%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-02 11:16:18

End at: 2018-01-02 11:16:49

Below is generated by plot.py at 2018-01-02 13:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.93 Mbit/s

95th percentile per-packet one-way delay: 115.274 ms

Loss rate: 0.52%

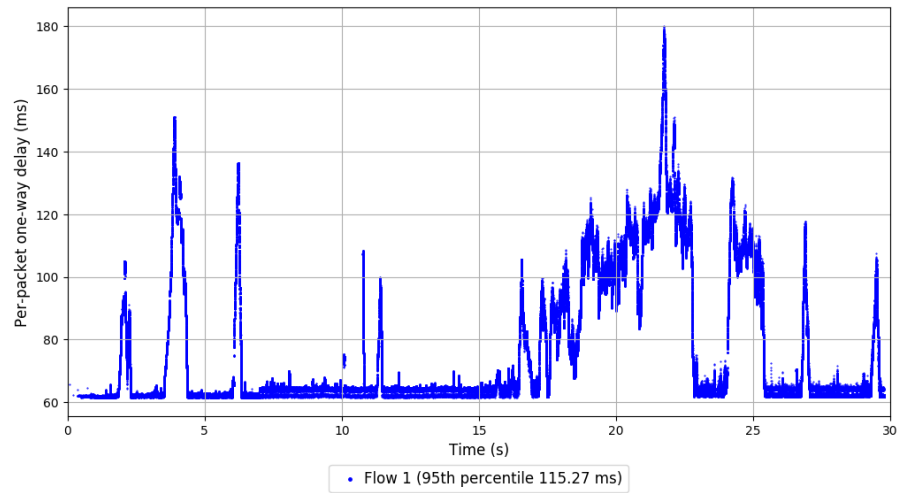
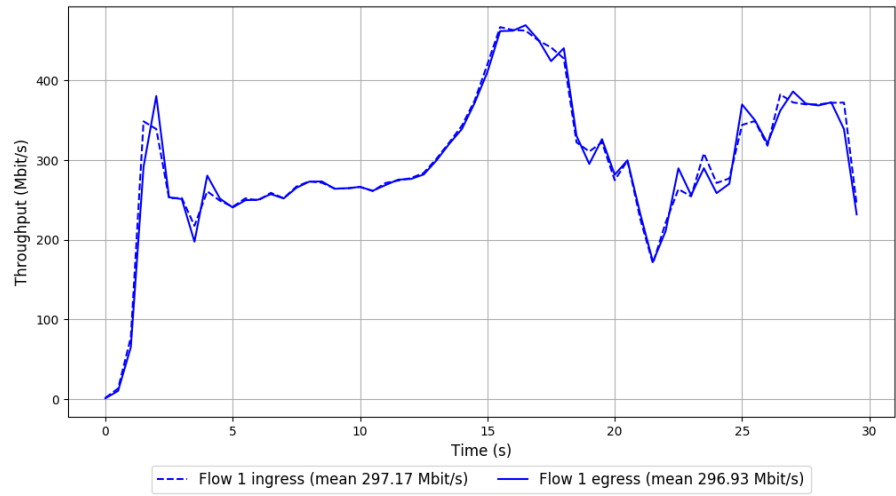
-- Flow 1:

Average throughput: 296.93 Mbit/s

95th percentile per-packet one-way delay: 115.274 ms

Loss rate: 0.52%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

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

End at: 2018-01-02 11:27:22

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.28 Mbit/s

95th percentile per-packet one-way delay: 103.733 ms

Loss rate: 0.50%

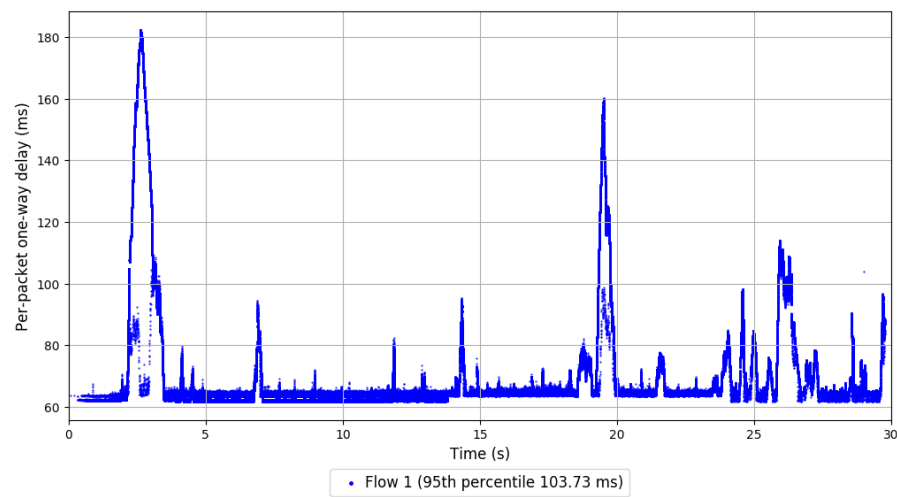
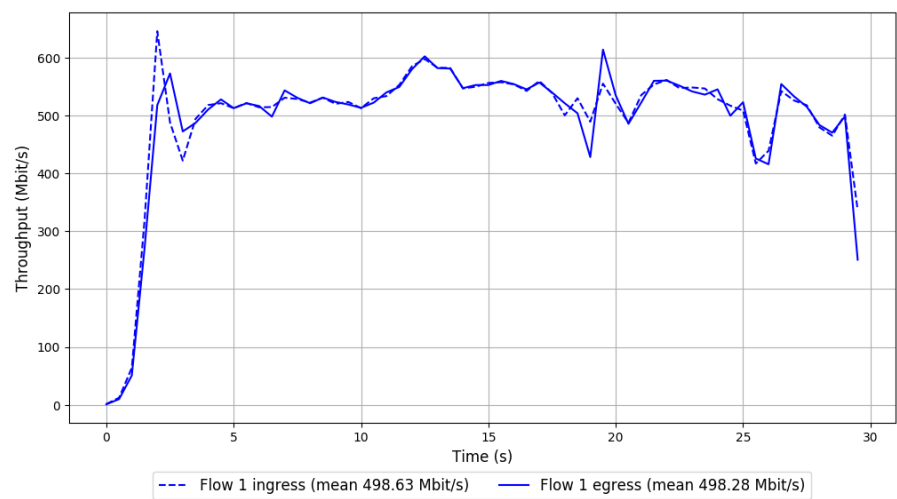
-- Flow 1:

Average throughput: 498.28 Mbit/s

95th percentile per-packet one-way delay: 103.733 ms

Loss rate: 0.50%

Run 10: Report of PCC — Data Link

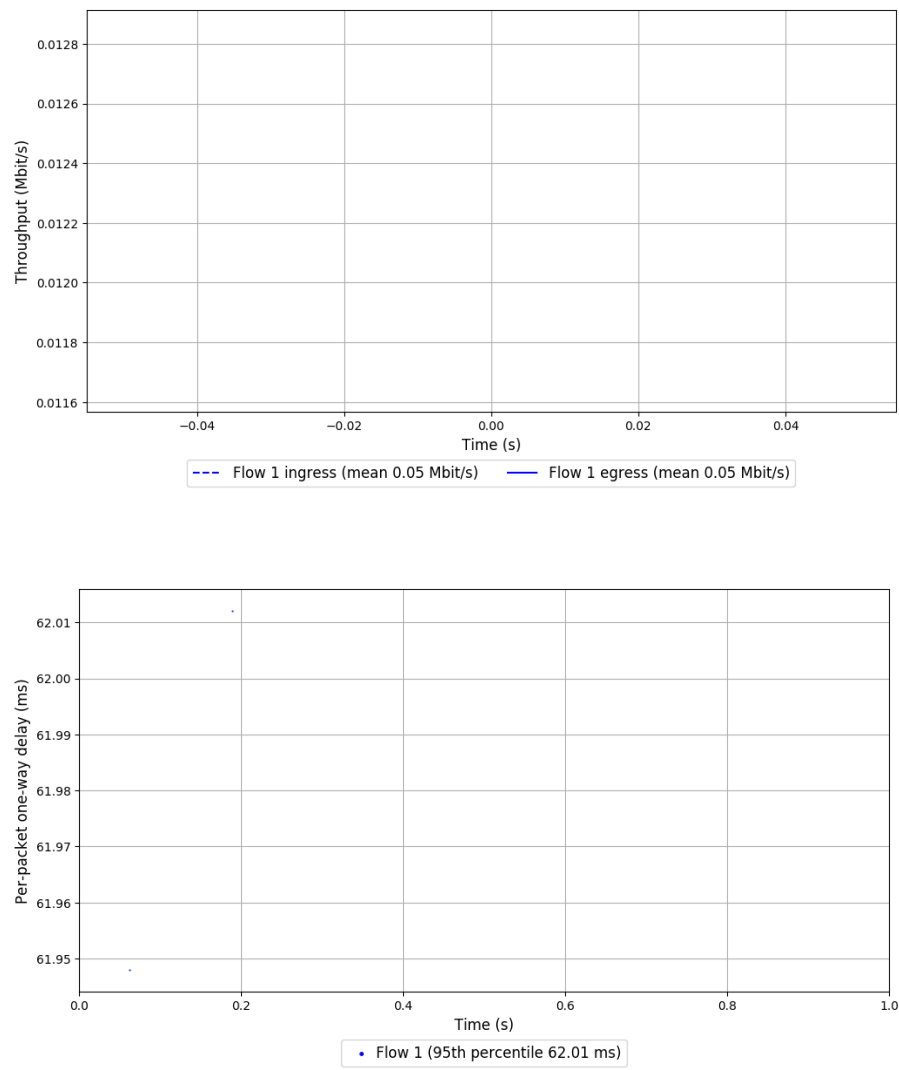


Run 1: Statistics of QUIC Cubic

Start at: 2018-01-02 09:40:29

End at: 2018-01-02 09:40:59

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-02 09:52:02

End at: 2018-01-02 09:52:32

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.35 Mbit/s

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

Loss rate: 0.59%

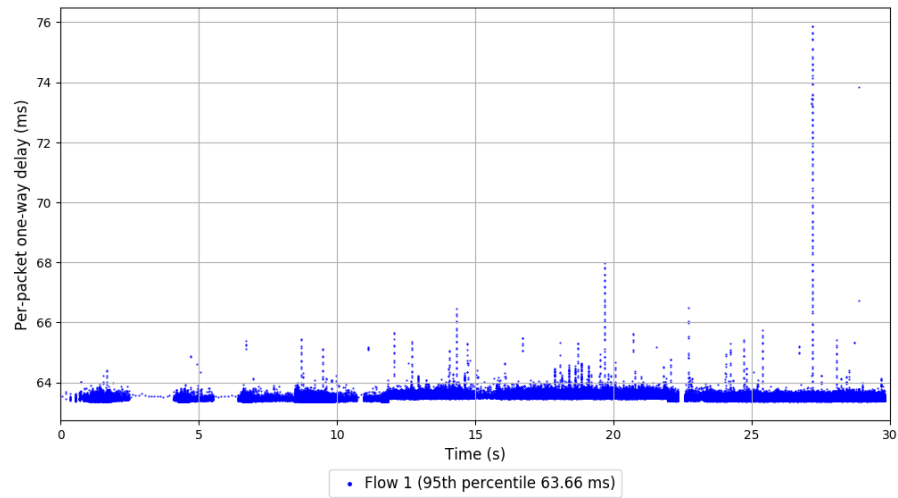
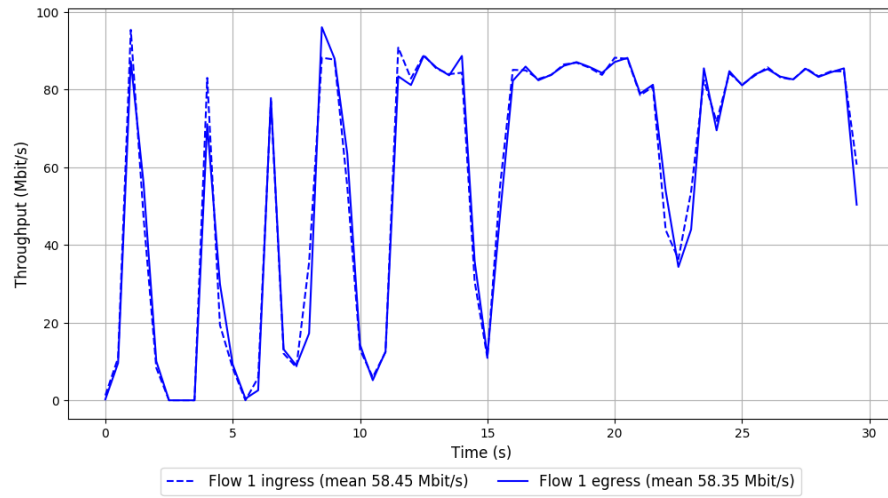
-- Flow 1:

Average throughput: 58.35 Mbit/s

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

Loss rate: 0.59%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-02 10:03:34

End at: 2018-01-02 10:04:04

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.00 Mbit/s

95th percentile per-packet one-way delay: 63.631 ms

Loss rate: 0.60%

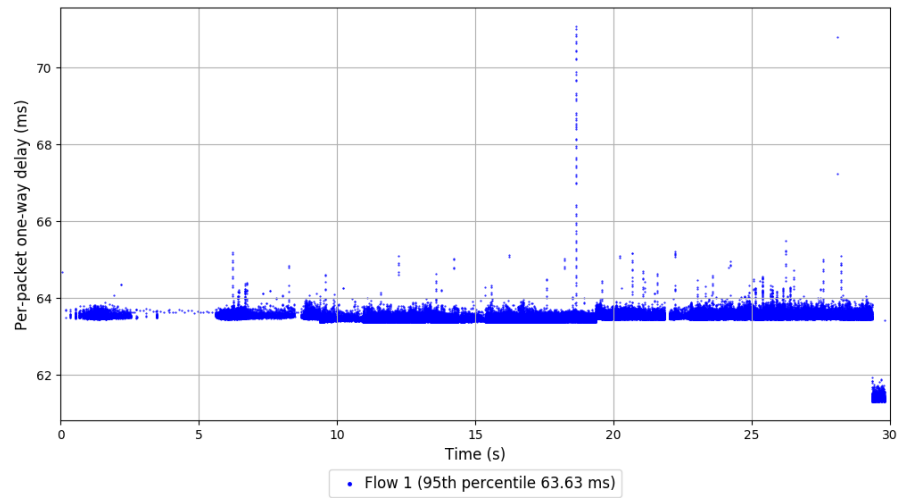
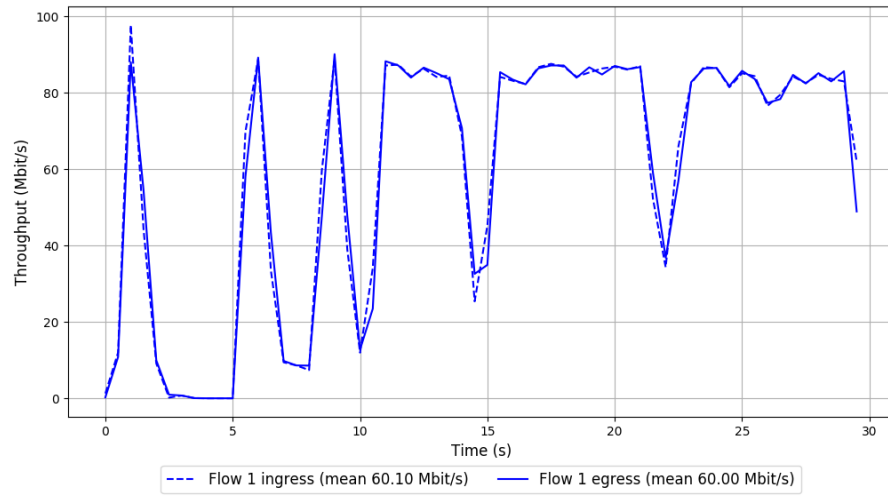
-- Flow 1:

Average throughput: 60.00 Mbit/s

95th percentile per-packet one-way delay: 63.631 ms

Loss rate: 0.60%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-02 10:15:07

End at: 2018-01-02 10:15:37

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.66 Mbit/s

95th percentile per-packet one-way delay: 63.658 ms

Loss rate: 0.66%

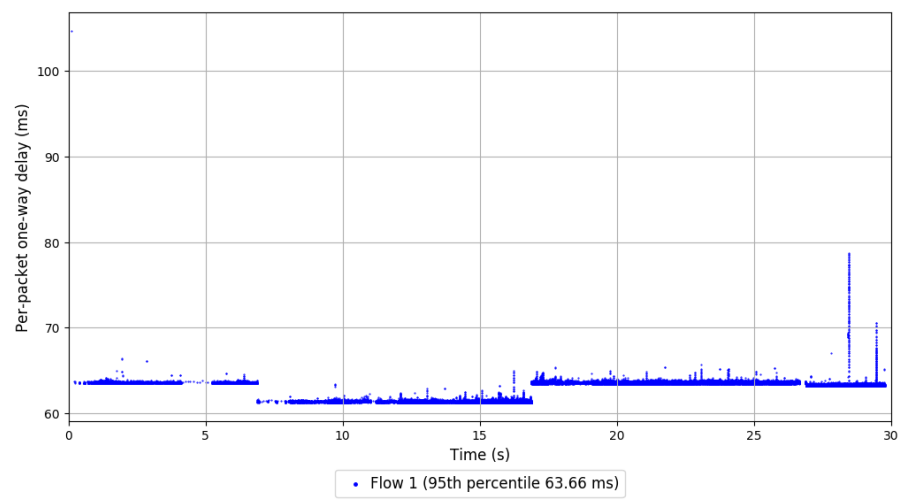
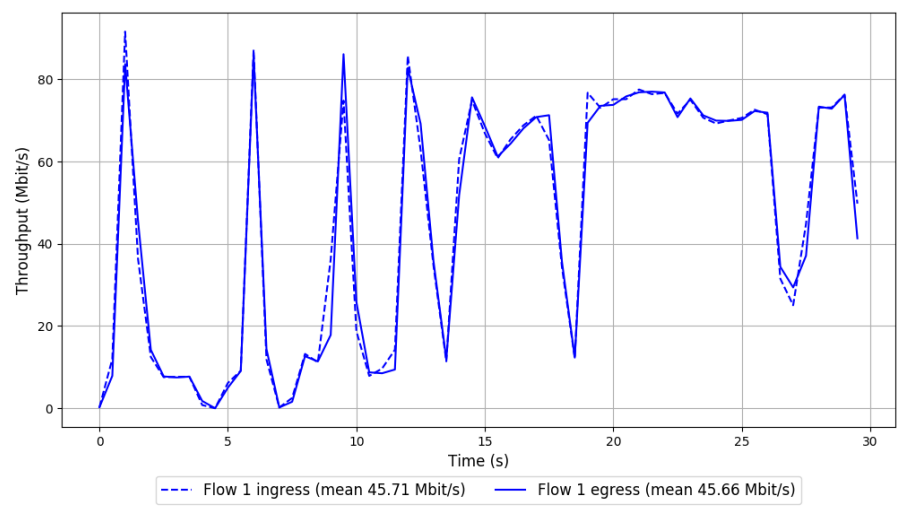
-- Flow 1:

Average throughput: 45.66 Mbit/s

95th percentile per-packet one-way delay: 63.658 ms

Loss rate: 0.66%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-02 10:27:00

End at: 2018-01-02 10:27:30

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 63.314 ms

Loss rate: 0.66%

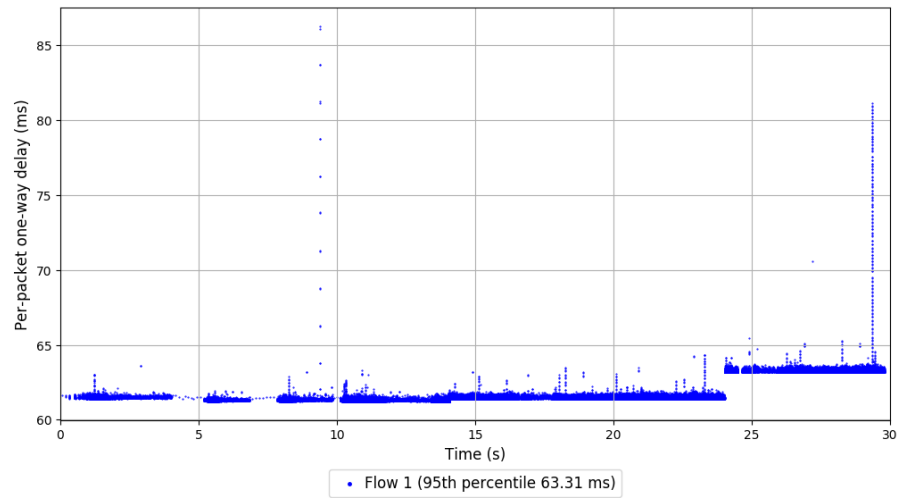
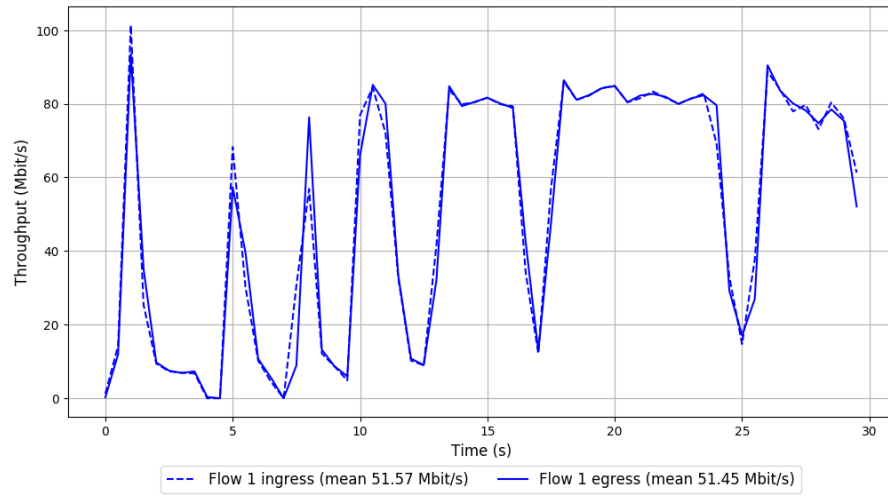
-- Flow 1:

Average throughput: 51.45 Mbit/s

95th percentile per-packet one-way delay: 63.314 ms

Loss rate: 0.66%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-02 10:38:33

End at: 2018-01-02 10:39:03

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 63.797 ms

Loss rate: 0.63%

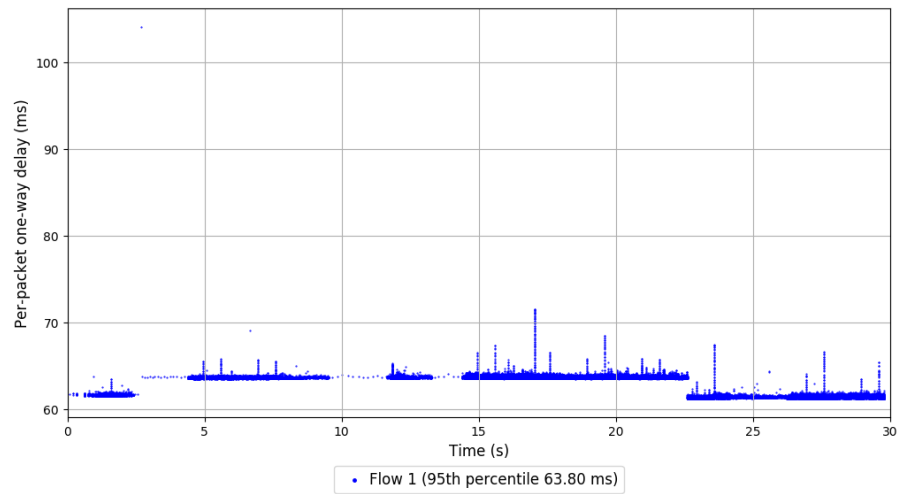
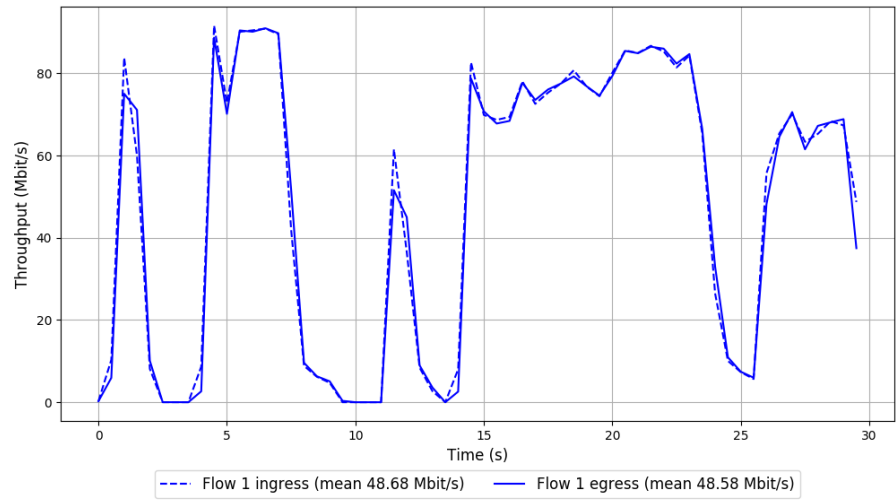
-- Flow 1:

Average throughput: 48.58 Mbit/s

95th percentile per-packet one-way delay: 63.797 ms

Loss rate: 0.63%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-02 10:49:33

End at: 2018-01-02 10:50:04

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 63.883 ms

Loss rate: 0.43%

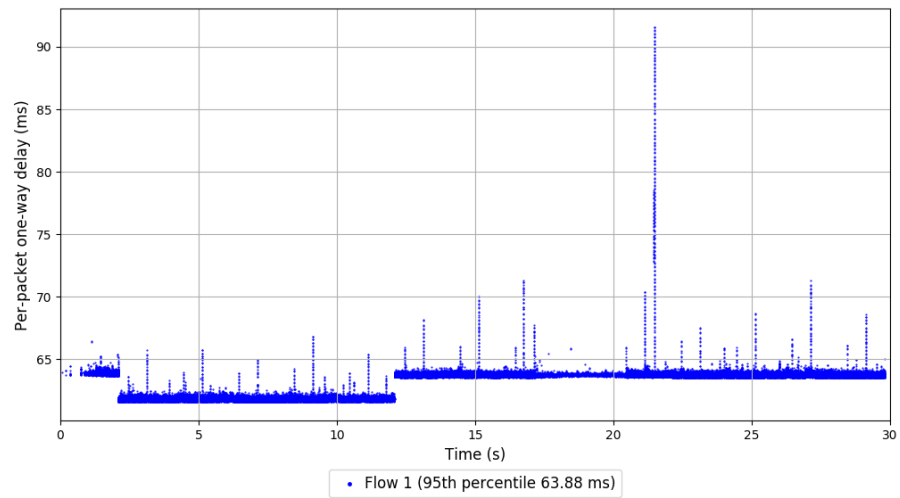
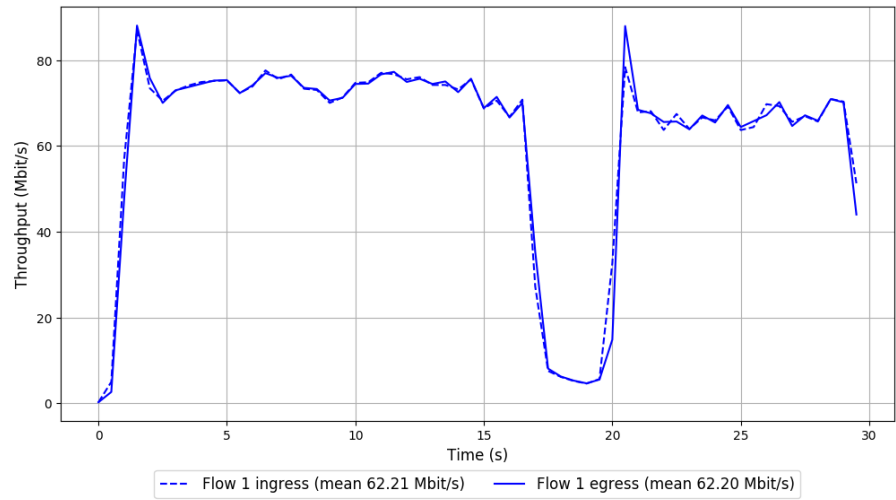
-- Flow 1:

Average throughput: 62.20 Mbit/s

95th percentile per-packet one-way delay: 63.883 ms

Loss rate: 0.43%

Run 7: Report of QUIC Cubic — Data Link

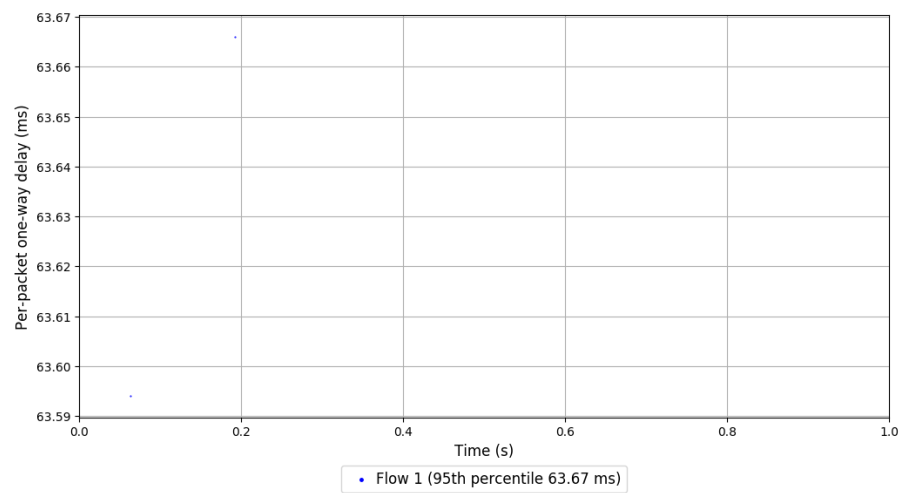
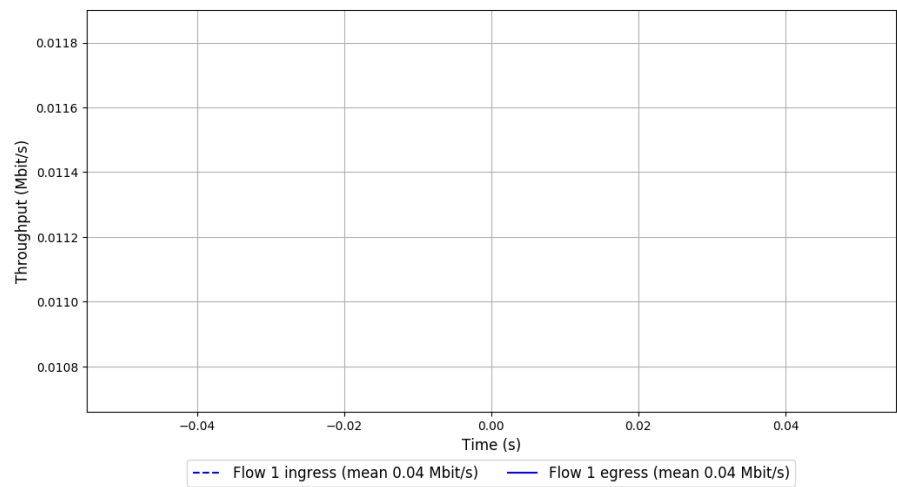


Run 8: Statistics of QUIC Cubic

Start at: 2018-01-02 11:00:34

End at: 2018-01-02 11:01:04

Run 8: Report of QUIC Cubic — Data Link

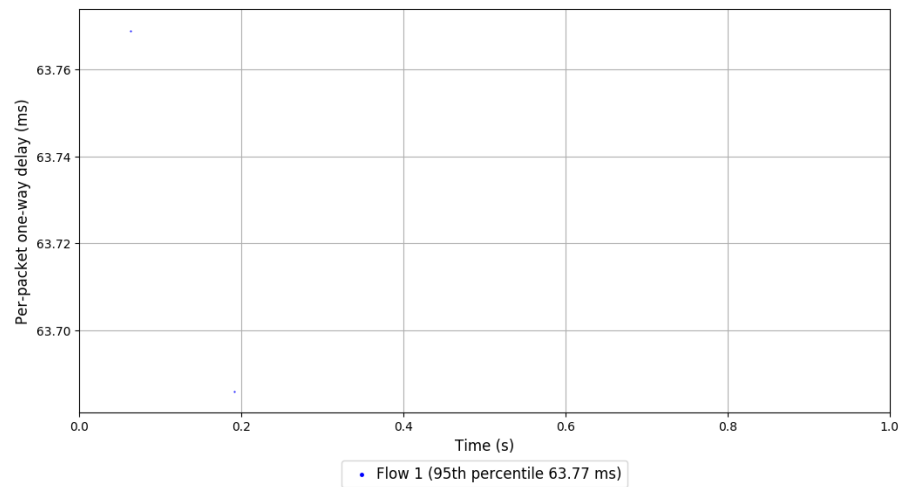
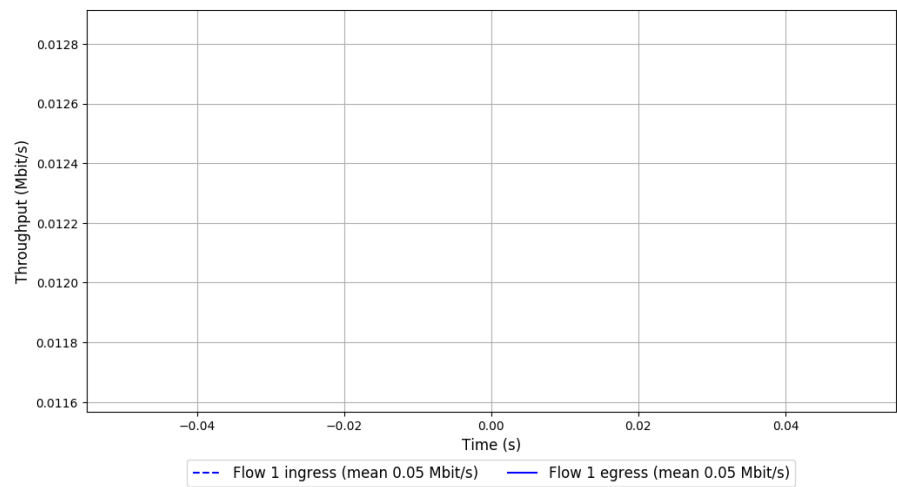


Run 9: Statistics of QUIC Cubic

Start at: 2018-01-02 11:11:33

End at: 2018-01-02 11:12:03

Run 9: Report of QUIC Cubic — Data Link

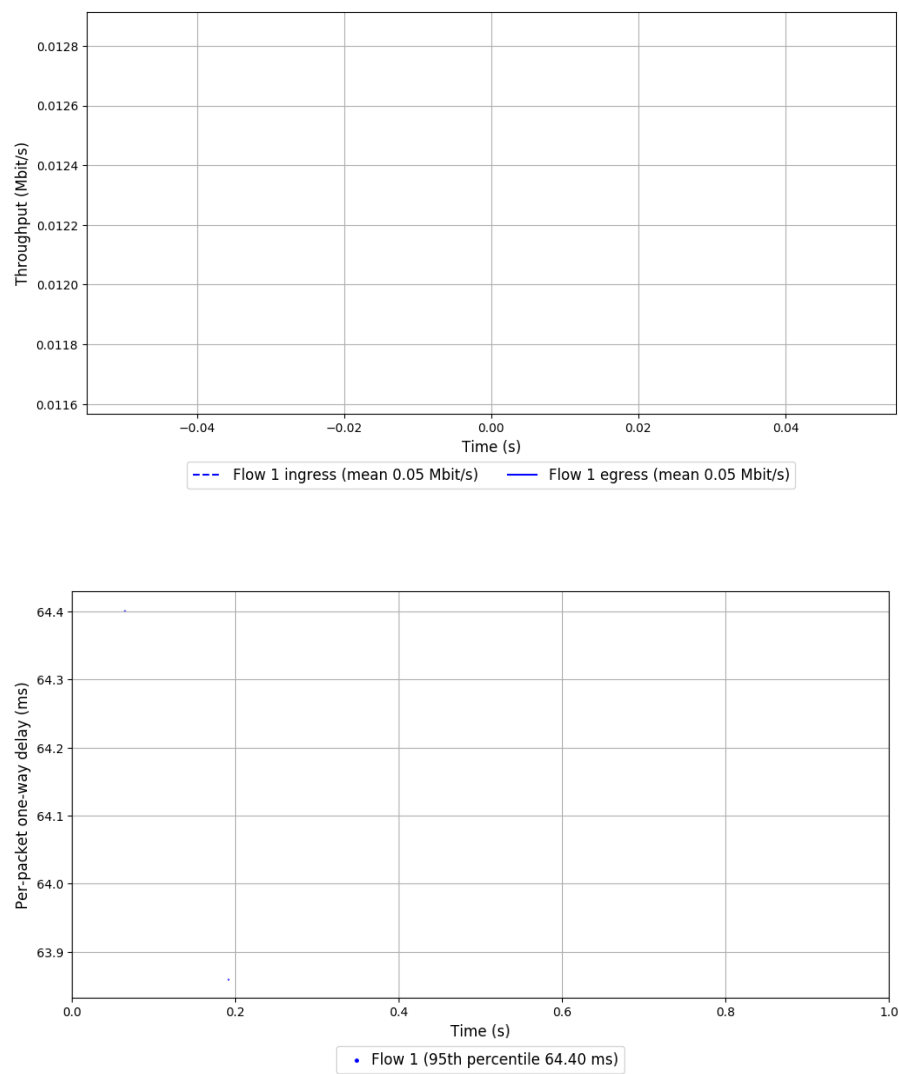


Run 10: Statistics of QUIC Cubic

Start at: 2018-01-02 11:22:06

End at: 2018-01-02 11:22:36

Run 10: Report of QUIC Cubic — Data Link

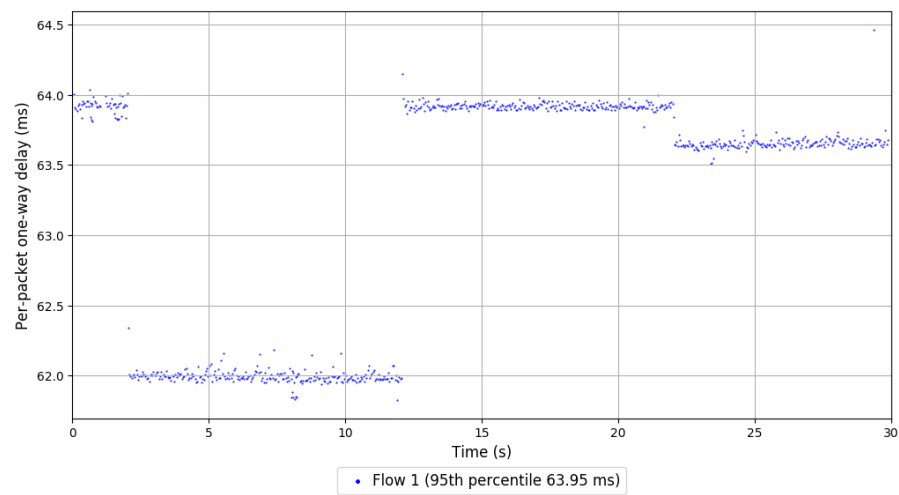
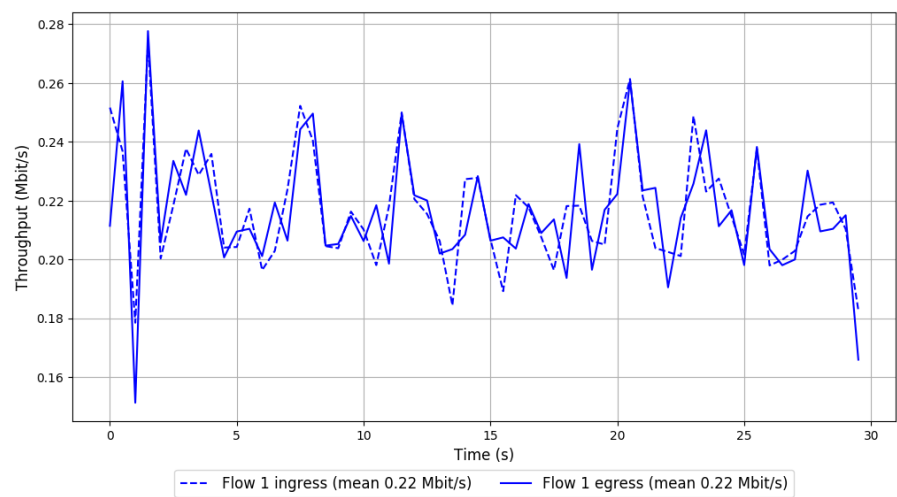


```
Run 1: Statistics of SCReAM

Start at: 2018-01-02 09:50:34
End at: 2018-01-02 09:51:04

# Below is generated by plot.py at 2018-01-02 13:53:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.952 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.952 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

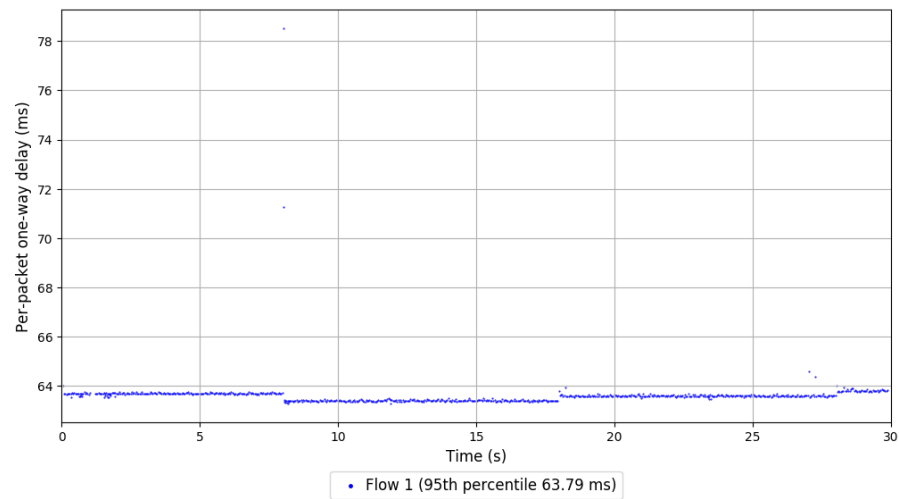
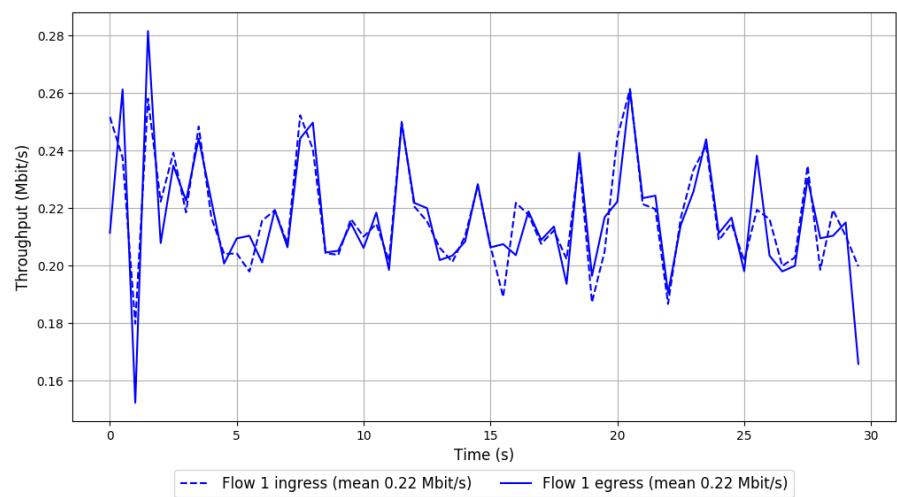


```
Run 2: Statistics of SCReAM

Start at: 2018-01-02 10:02:06
End at: 2018-01-02 10:02:36

# Below is generated by plot.py at 2018-01-02 13:53:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.789 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.789 ms
Loss rate: 0.51%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-02 10:13:38

End at: 2018-01-02 10:14:08

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.099 ms

Loss rate: 0.38%

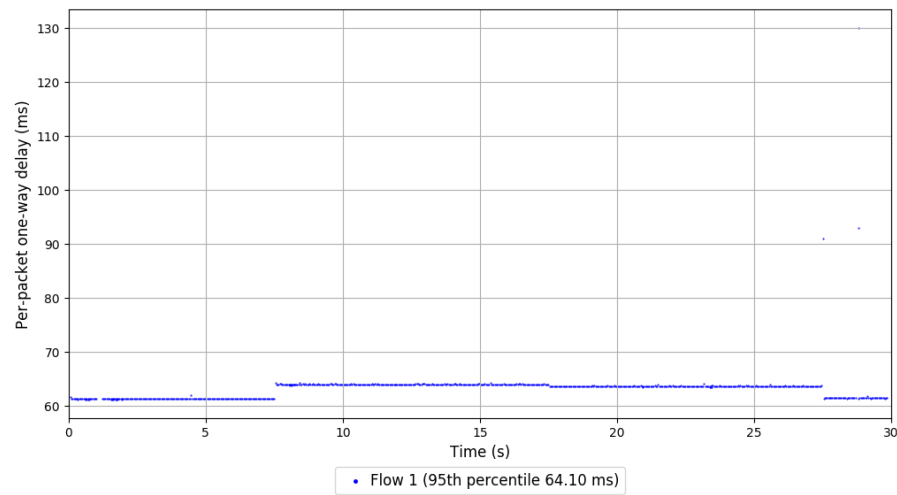
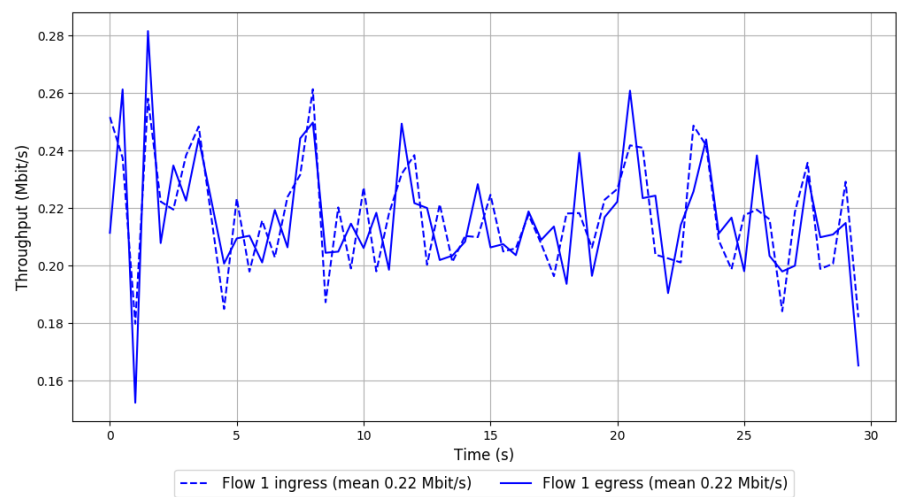
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.099 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-02 10:25:30

End at: 2018-01-02 10:26:00

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.858 ms

Loss rate: 0.38%

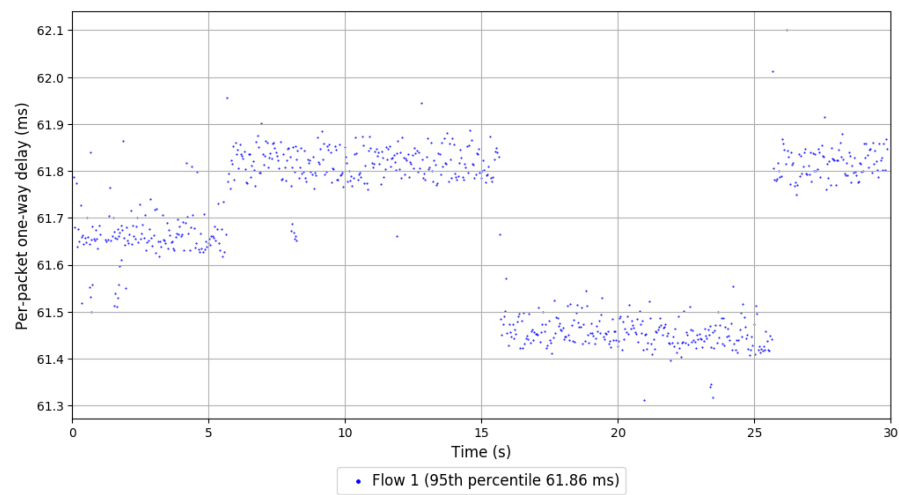
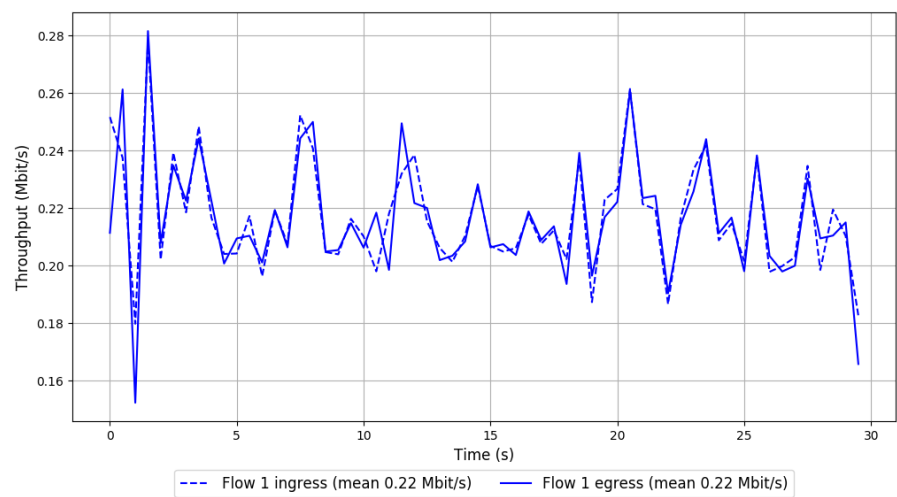
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.858 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-02 10:37:06

End at: 2018-01-02 10:37:36

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.041 ms

Loss rate: 0.38%

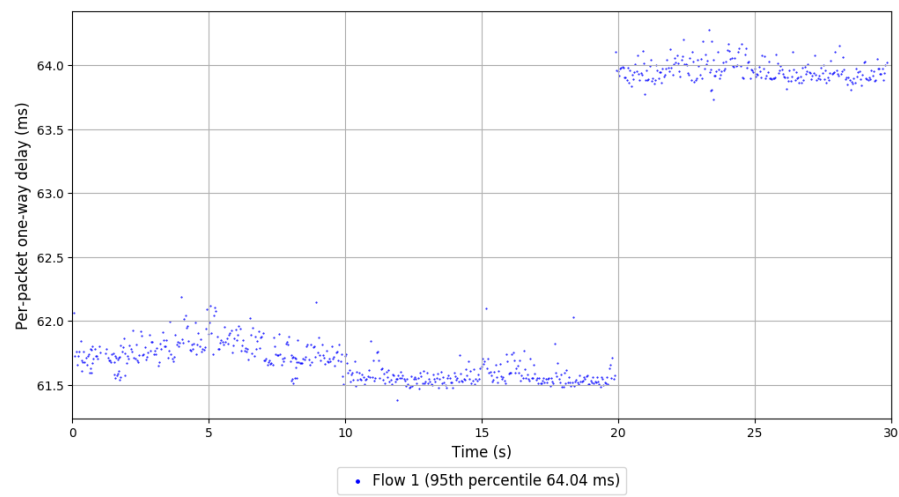
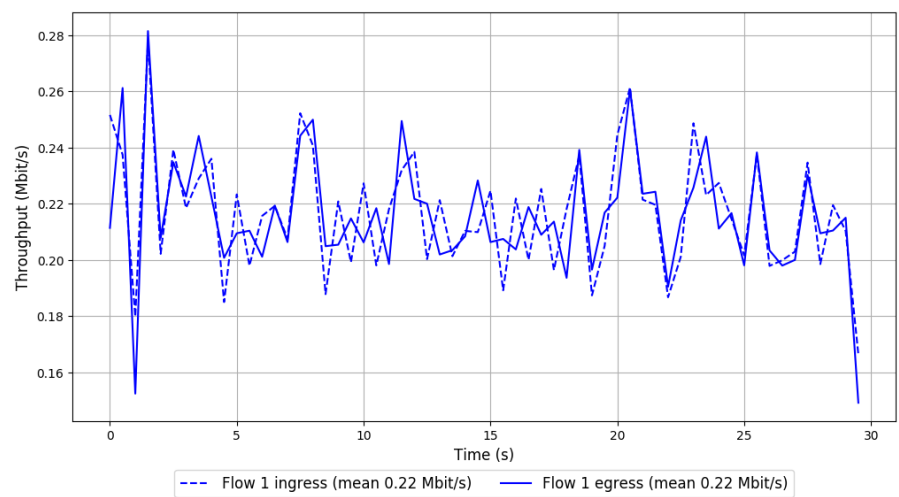
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.041 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-02 10:48:11

End at: 2018-01-02 10:48:41

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.156 ms

Loss rate: 0.38%

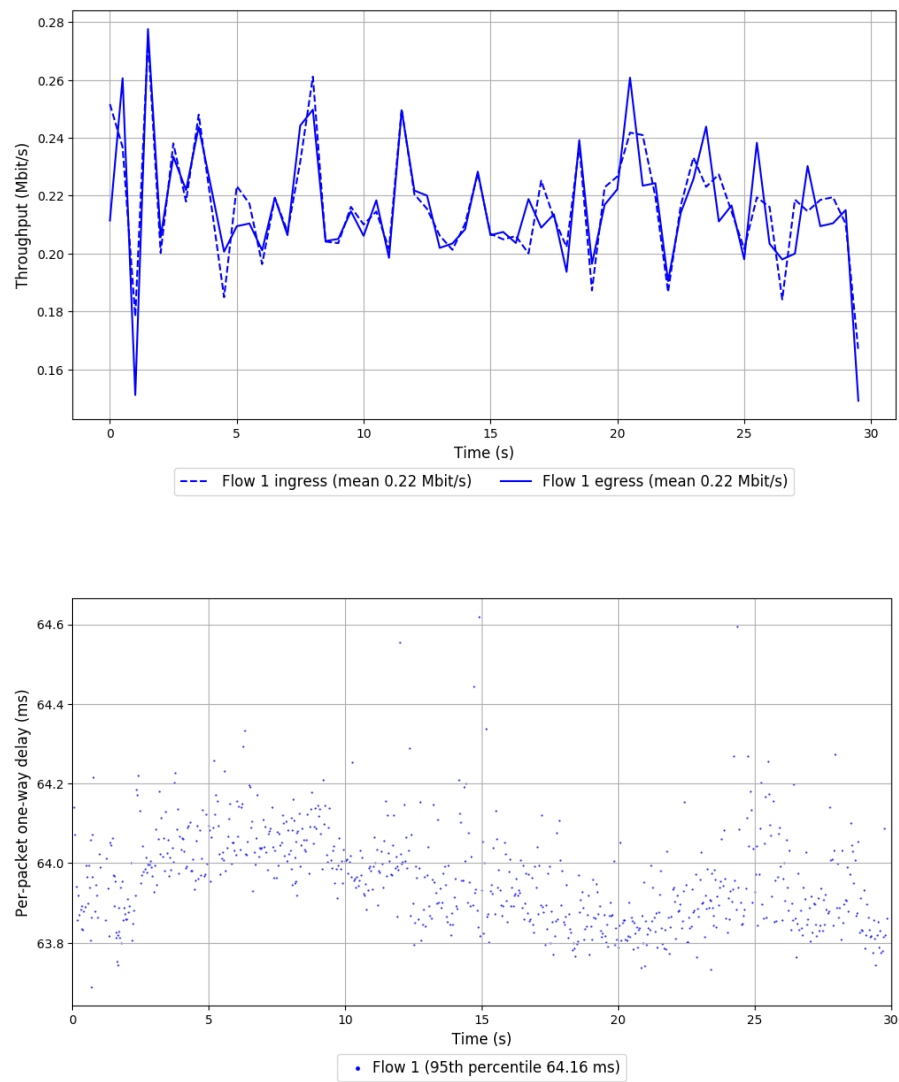
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.156 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-02 10:59:10

End at: 2018-01-02 10:59:40

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.242 ms

Loss rate: 0.38%

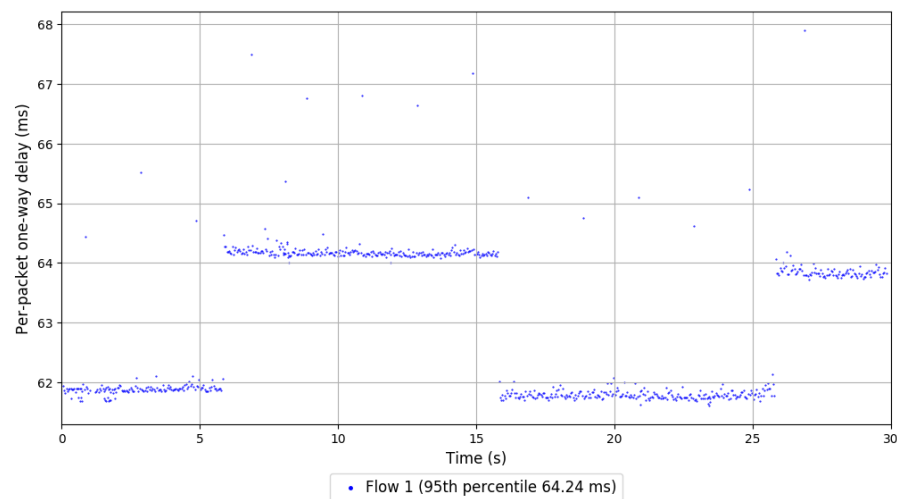
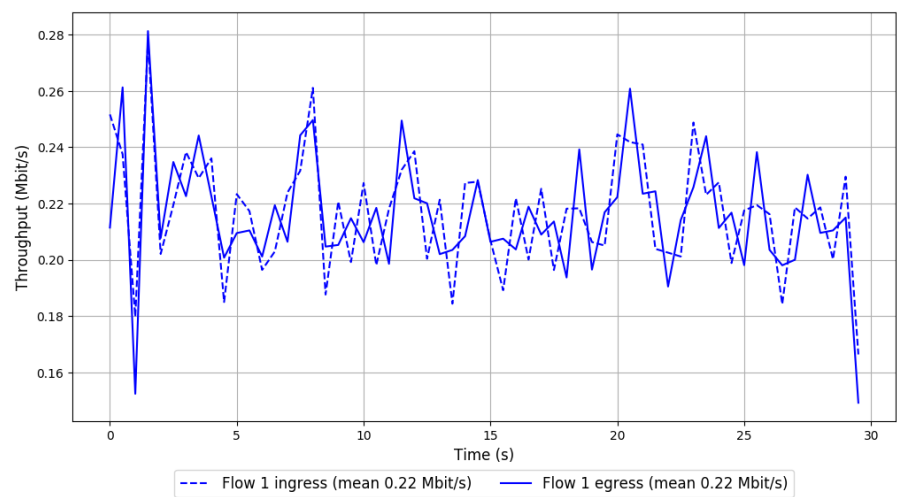
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.242 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-02 11:10:14

End at: 2018-01-02 11:10:44

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.292 ms

Loss rate: 0.38%

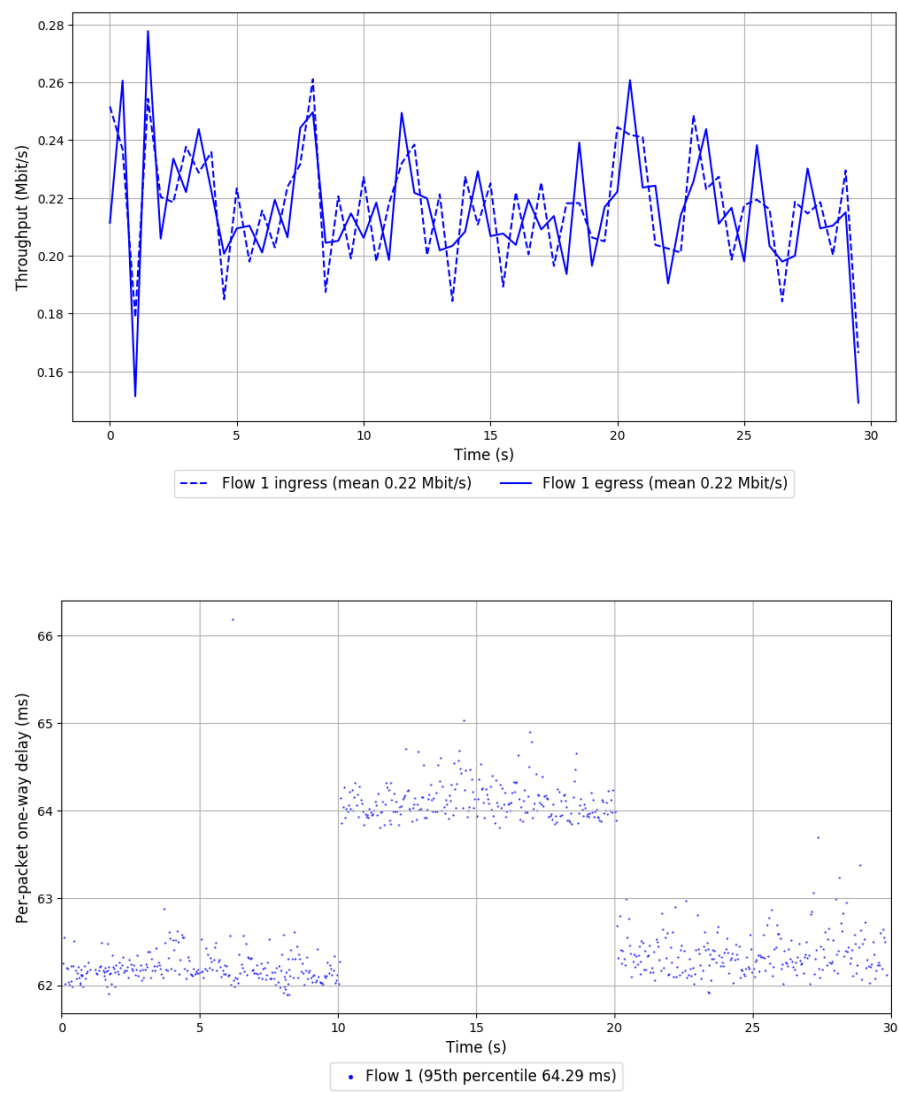
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.292 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-02 11:20:45

End at: 2018-01-02 11:21:15

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.469 ms

Loss rate: 0.38%

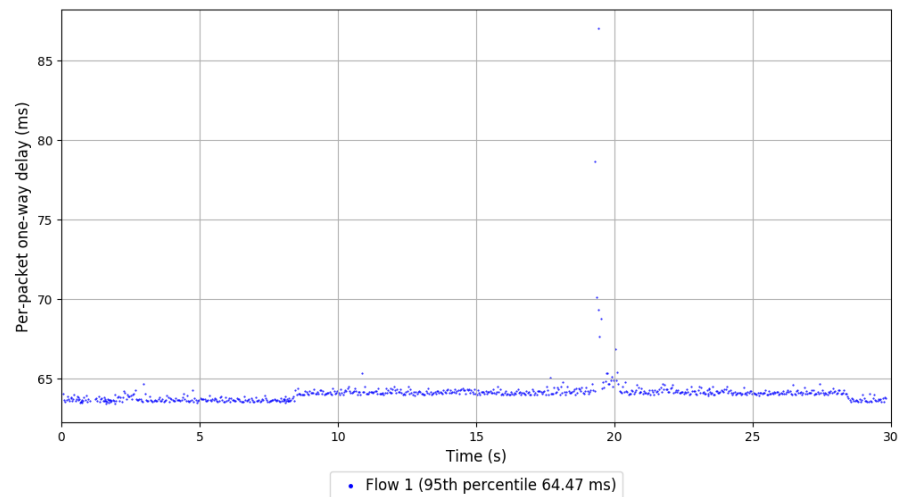
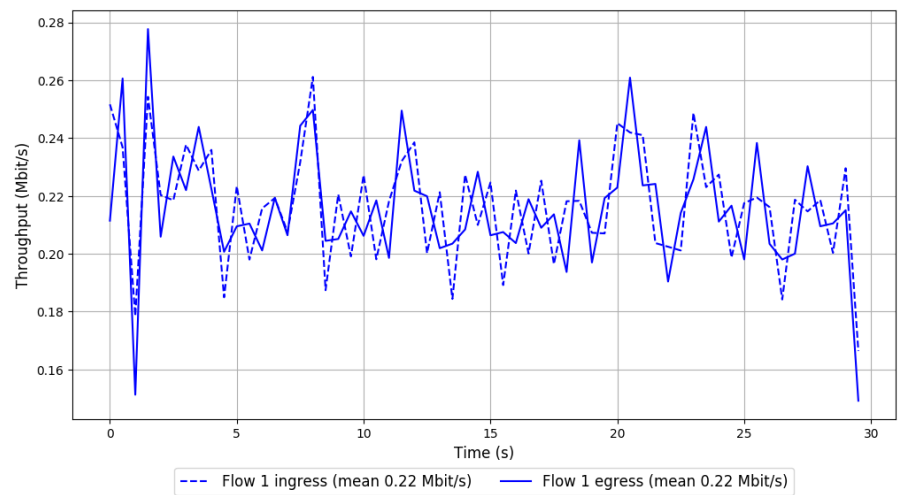
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.469 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-02 11:31:33

End at: 2018-01-02 11:32:03

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.905 ms

Loss rate: 0.39%

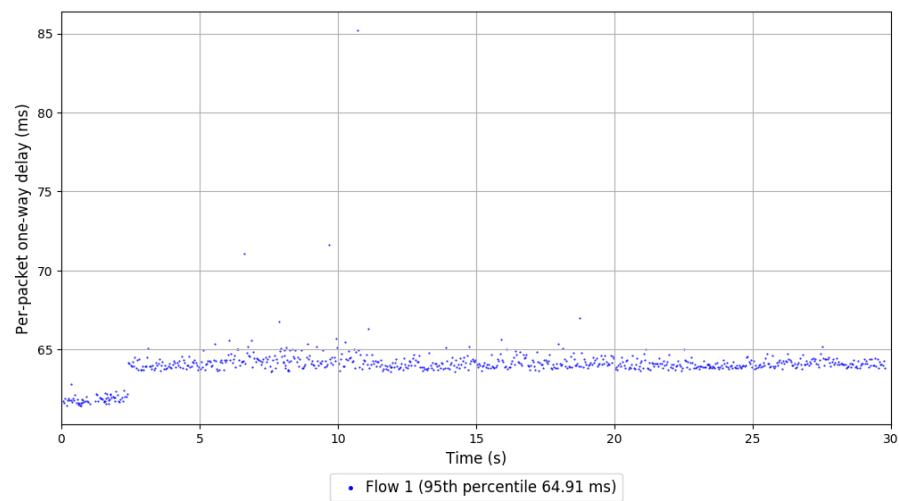
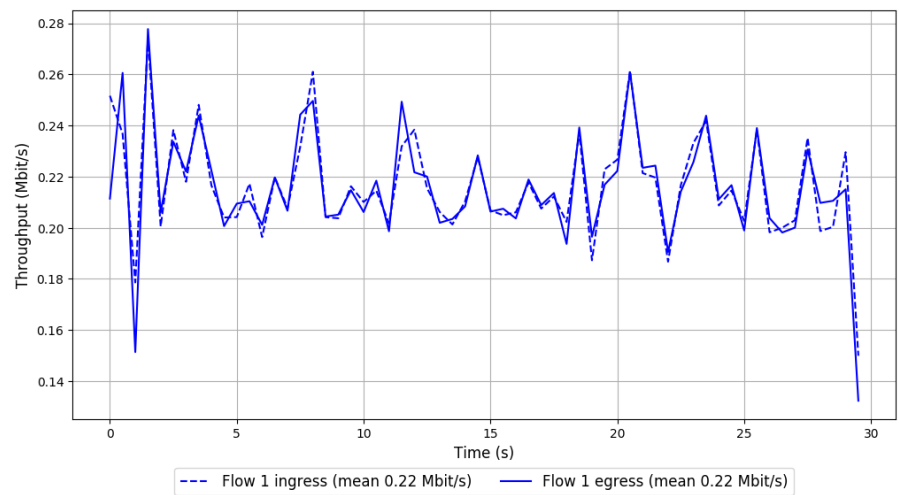
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.905 ms

Loss rate: 0.39%

Run 10: Report of SReAM — Data Link

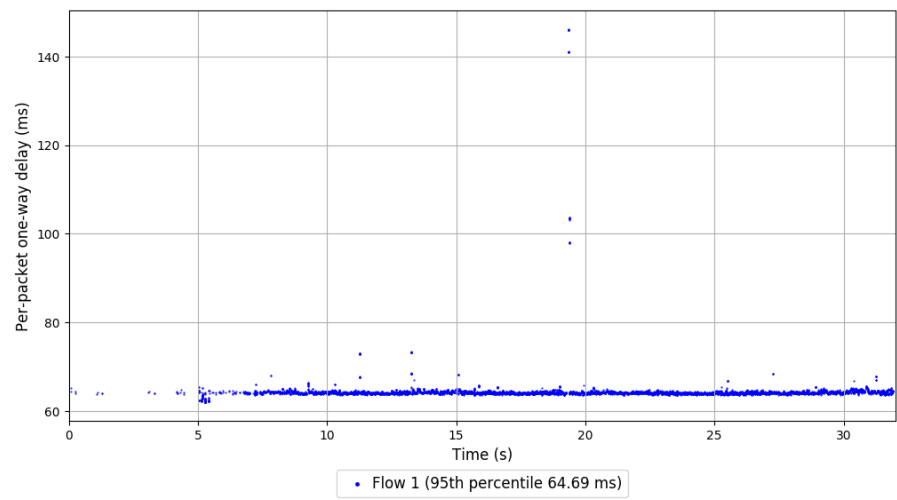
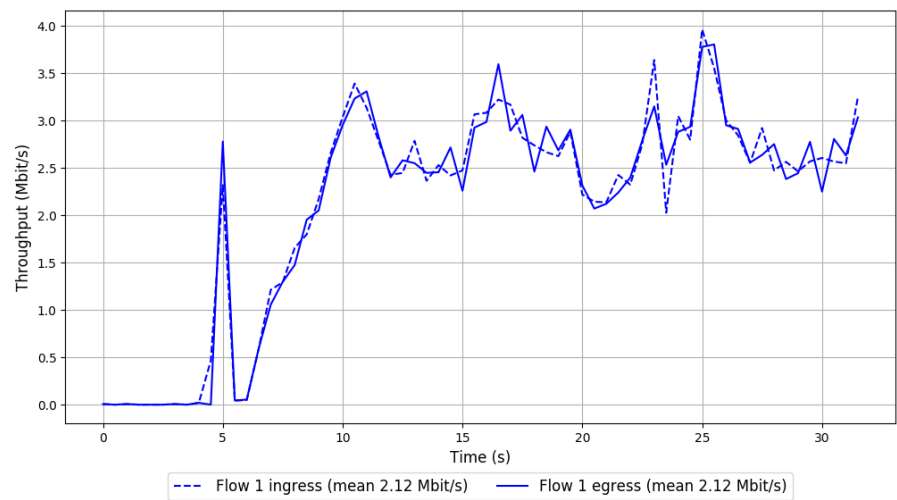


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-02 09:41:49
End at: 2018-01-02 09:42:20

# Below is generated by plot.py at 2018-01-02 13:53:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 64.689 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 2.12 Mbit/s
95th percentile per-packet one-way delay: 64.689 ms
Loss rate: 0.35%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-02 09:53:26

End at: 2018-01-02 09:53:56

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 64.106 ms

Loss rate: 0.45%

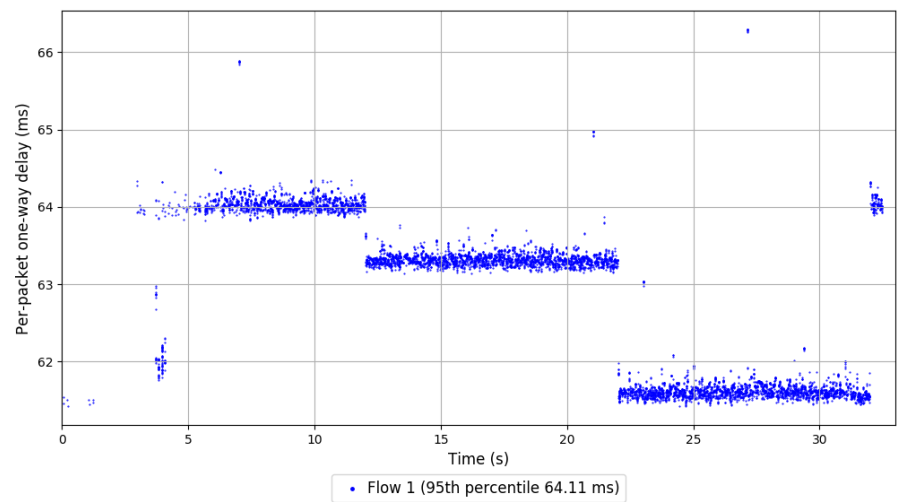
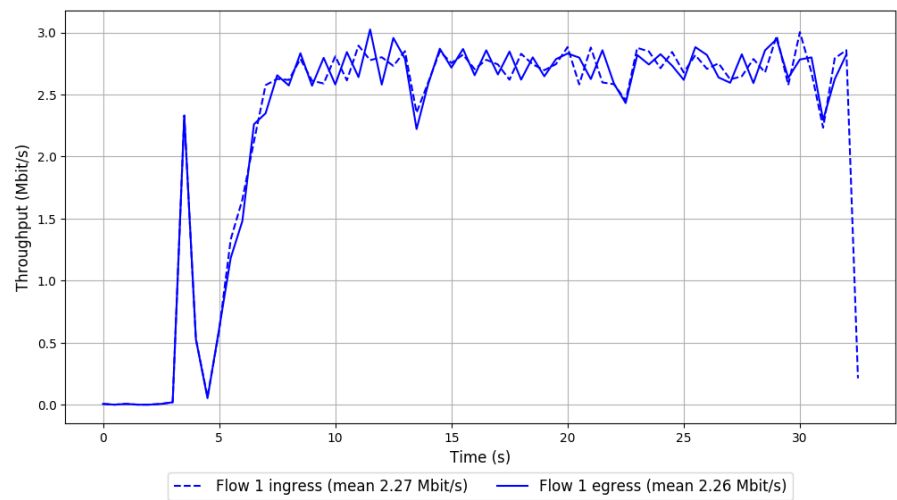
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 64.106 ms

Loss rate: 0.45%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-02 10:04:58

End at: 2018-01-02 10:05:28

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.45%

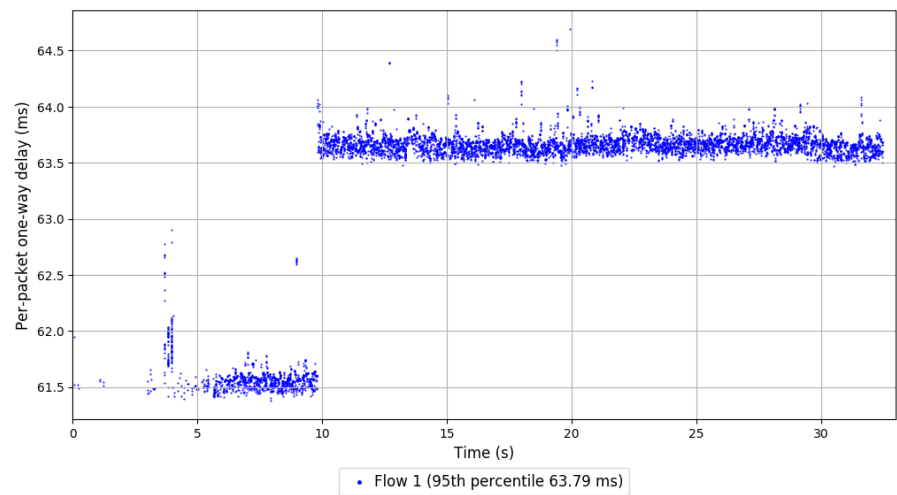
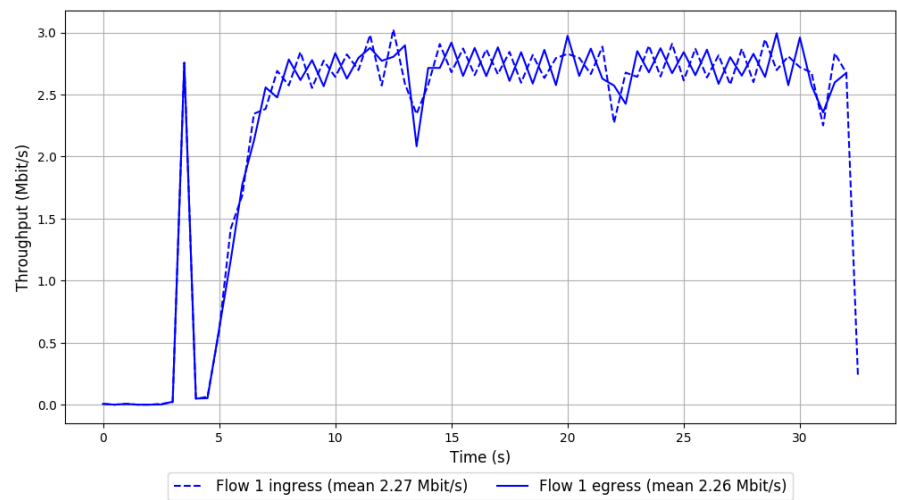
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.45%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-02 10:16:31

End at: 2018-01-02 10:17:01

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.961 ms

Loss rate: 0.45%

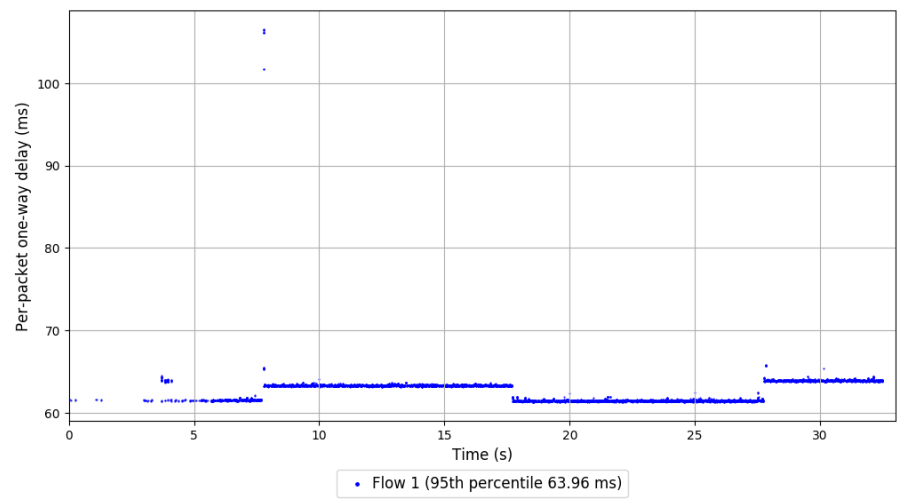
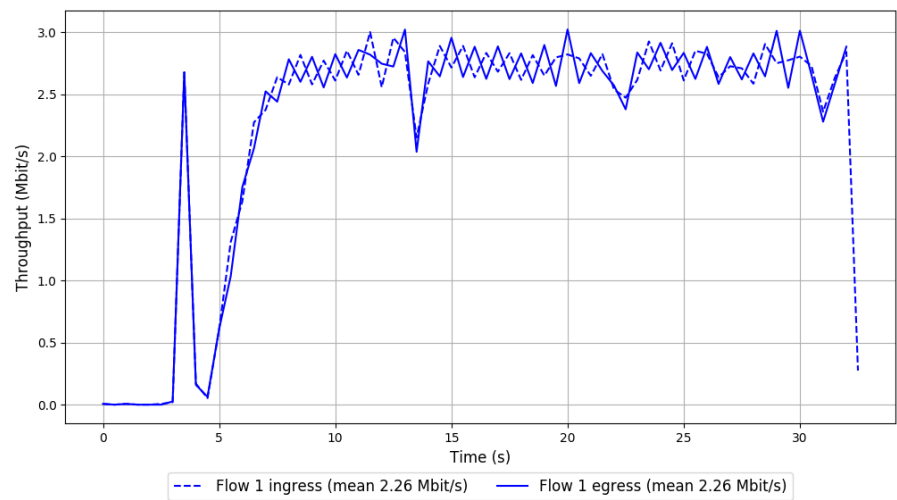
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 63.961 ms

Loss rate: 0.45%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-02 10:28:25

End at: 2018-01-02 10:28:55

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.971 ms

Loss rate: 0.49%

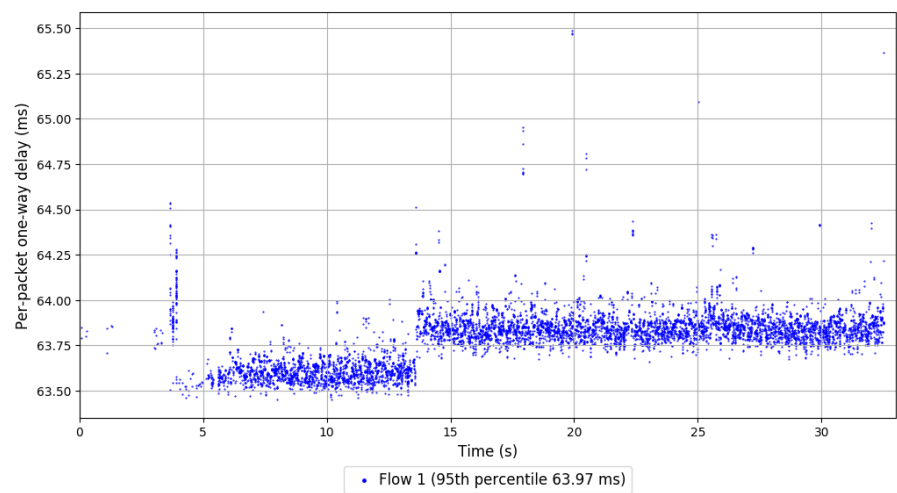
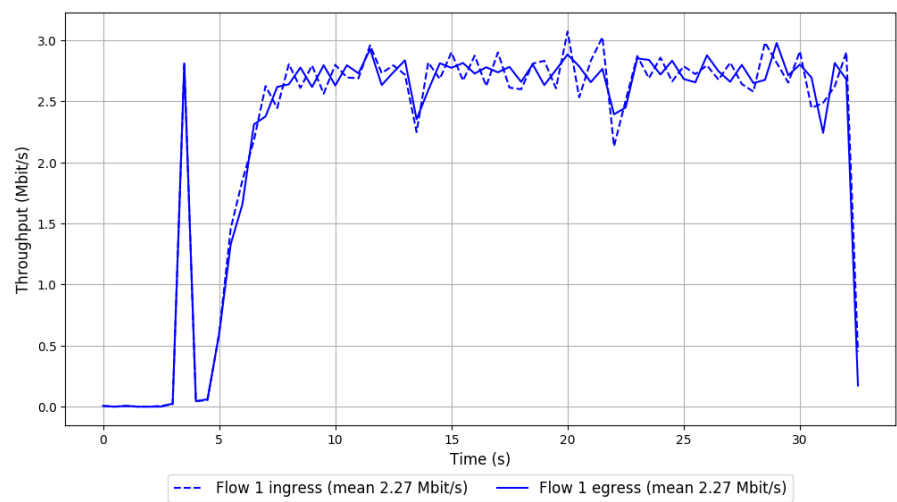
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 63.971 ms

Loss rate: 0.49%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-02 10:39:53

End at: 2018-01-02 10:40:23

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.50%

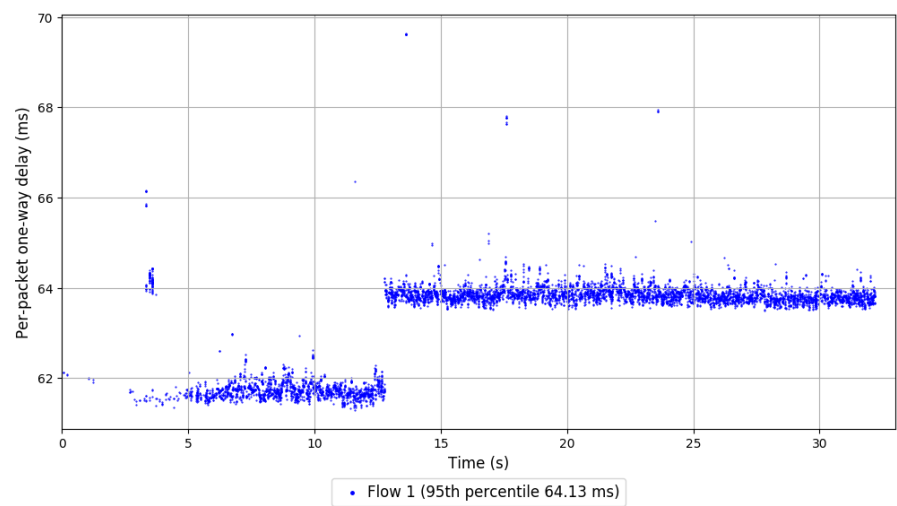
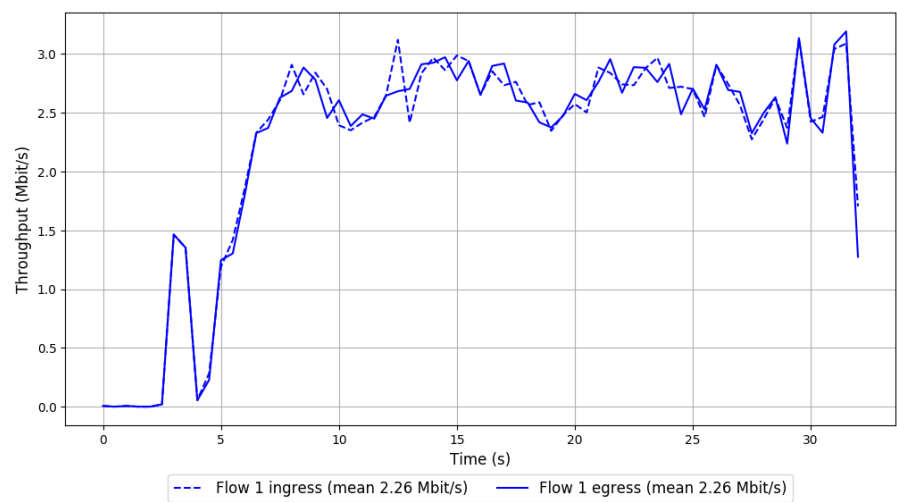
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.50%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-02 10:50:58

End at: 2018-01-02 10:51:28

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 64.075 ms

Loss rate: 0.68%

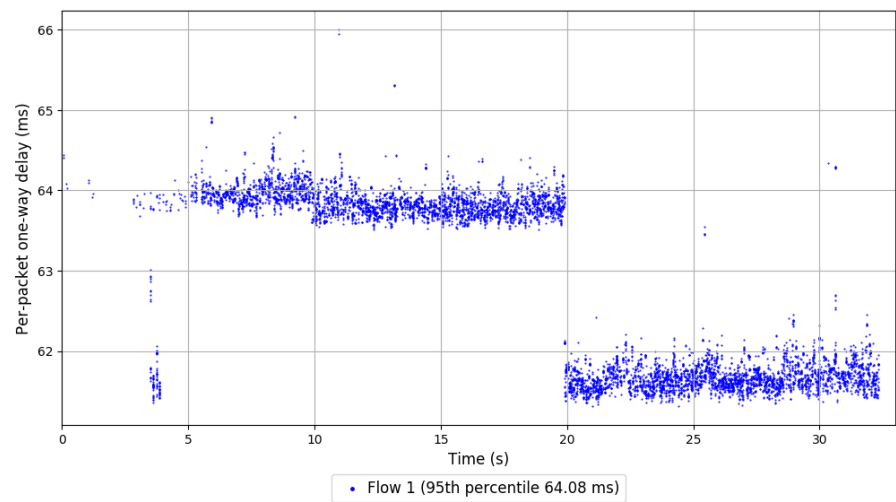
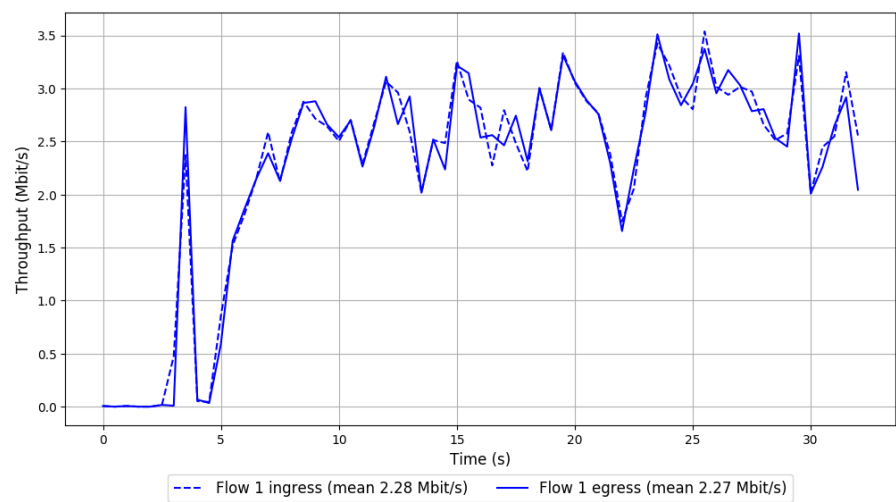
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 64.075 ms

Loss rate: 0.68%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

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

End at: 2018-01-02 11:02:27

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 64.499 ms

Loss rate: 0.57%

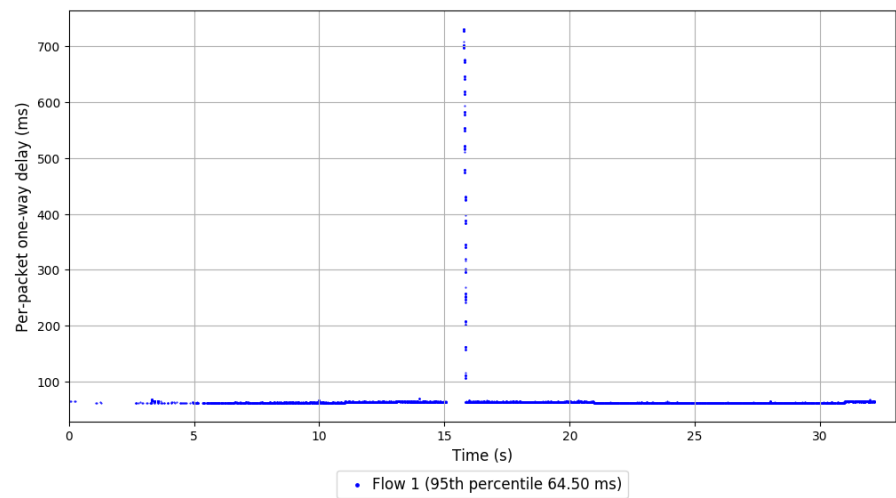
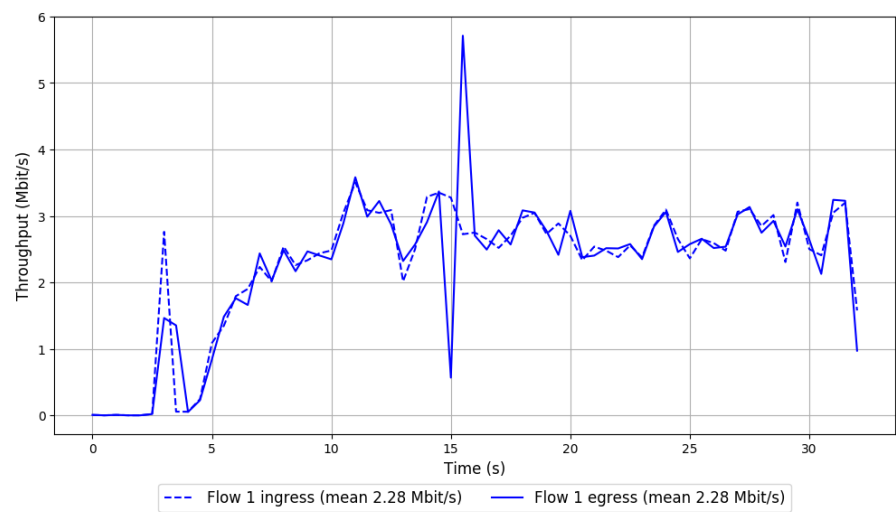
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 64.499 ms

Loss rate: 0.57%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-02 11:12:53

End at: 2018-01-02 11:13:23

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.61%

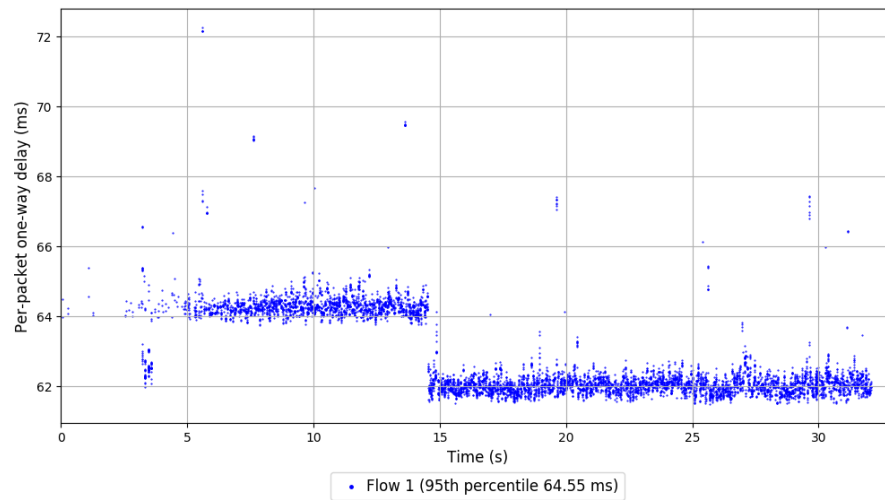
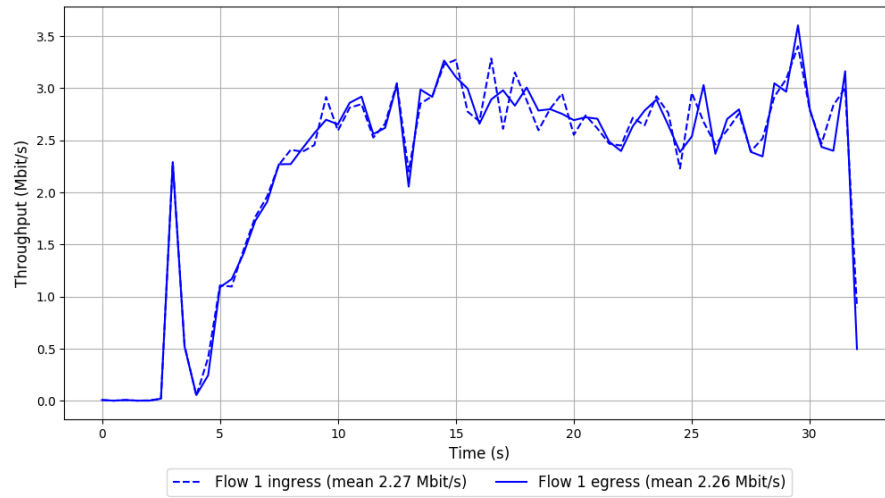
-- Flow 1:

Average throughput: 2.26 Mbit/s

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

Loss rate: 0.61%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-02 11:23:24

End at: 2018-01-02 11:23:54

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 64.276 ms

Loss rate: 0.55%

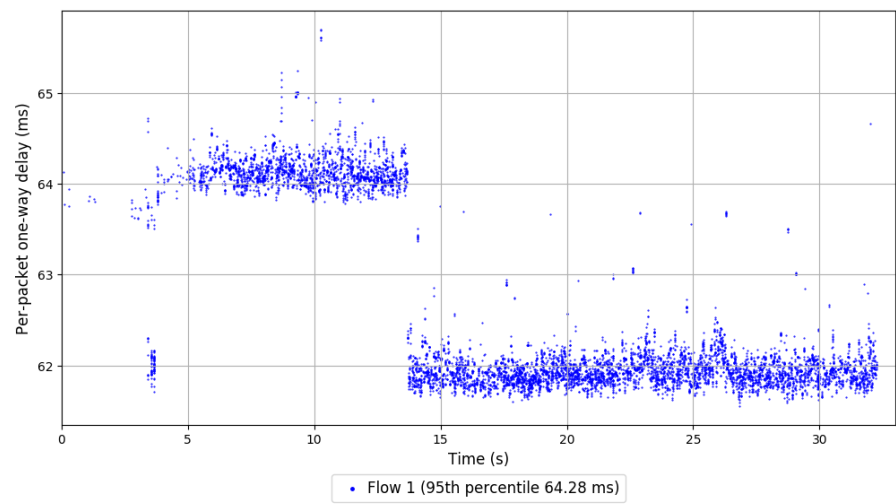
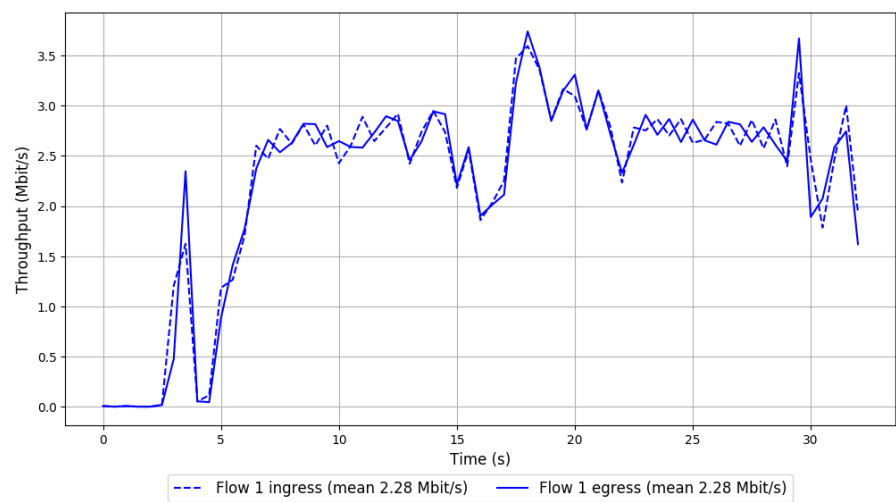
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 64.276 ms

Loss rate: 0.55%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-02 09:43:56

End at: 2018-01-02 09:44:26

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.18 Mbit/s

95th percentile per-packet one-way delay: 66.261 ms

Loss rate: 1.62%

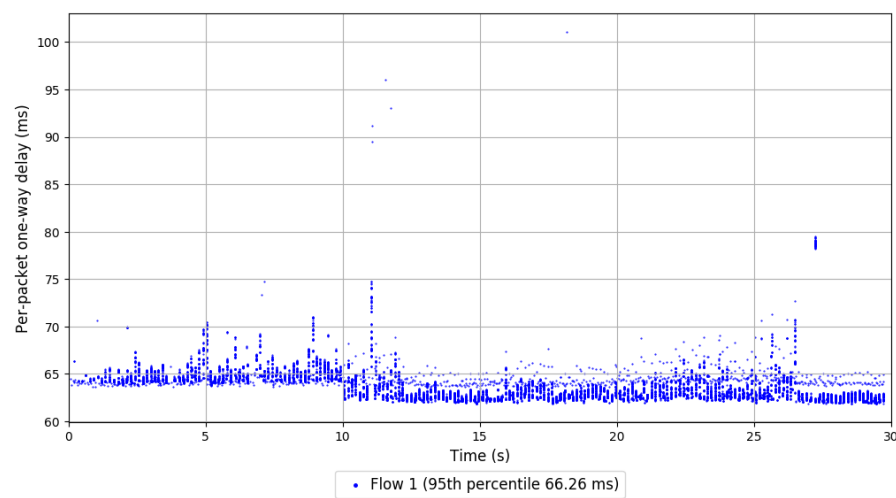
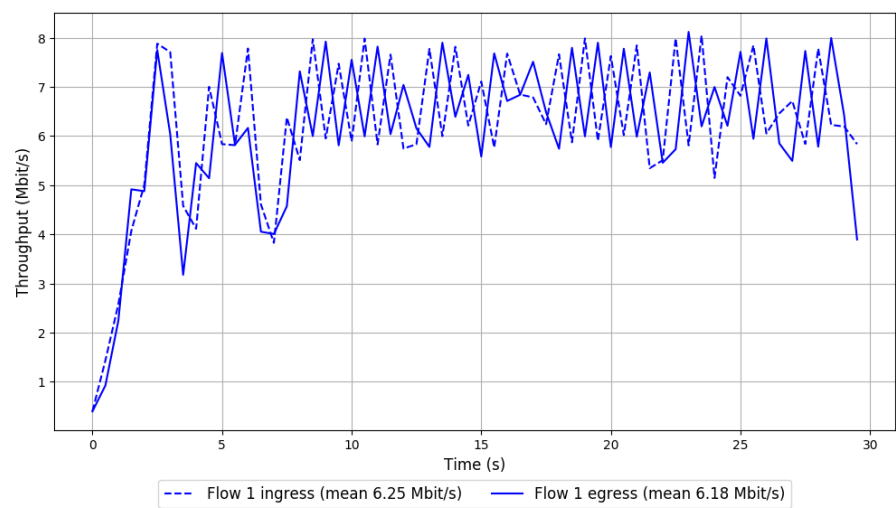
-- Flow 1:

Average throughput: 6.18 Mbit/s

95th percentile per-packet one-way delay: 66.261 ms

Loss rate: 1.62%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-02 09:55:32

End at: 2018-01-02 09:56:02

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 62.857 ms

Loss rate: 1.49%

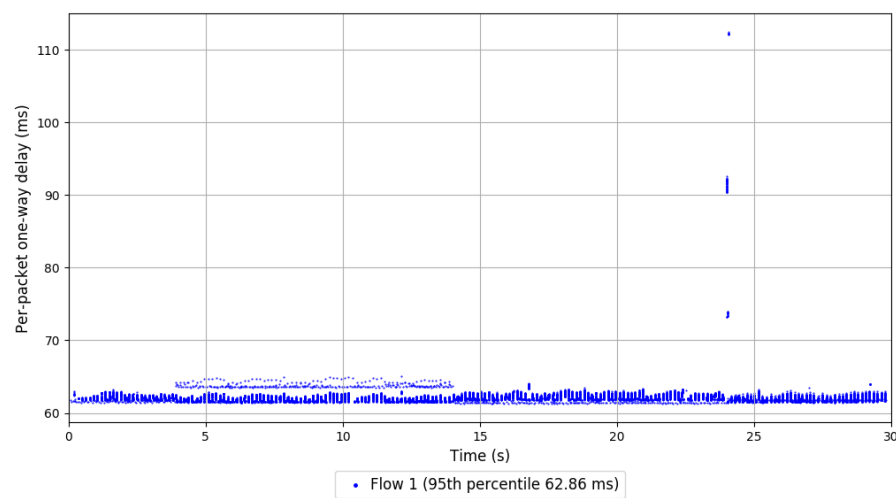
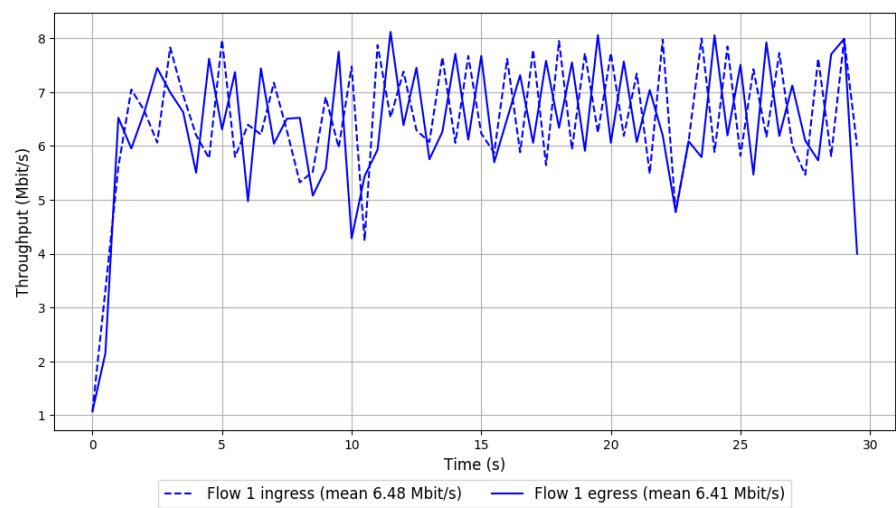
-- Flow 1:

Average throughput: 6.41 Mbit/s

95th percentile per-packet one-way delay: 62.857 ms

Loss rate: 1.49%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-02 10:07:06

End at: 2018-01-02 10:07:36

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 64.471 ms

Loss rate: 2.24%

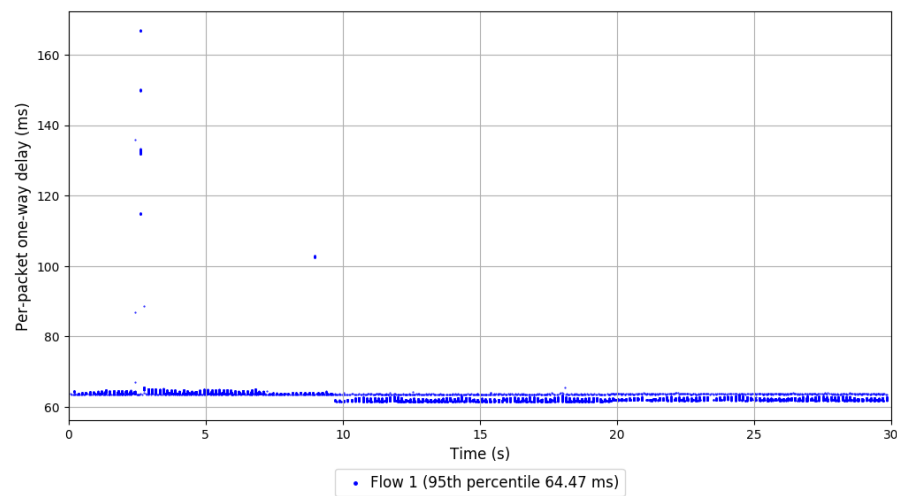
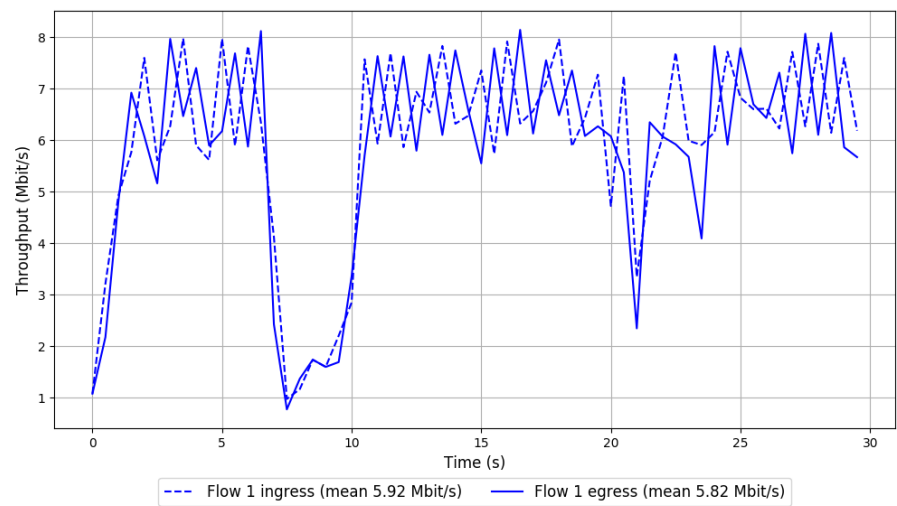
-- Flow 1:

Average throughput: 5.82 Mbit/s

95th percentile per-packet one-way delay: 64.471 ms

Loss rate: 2.24%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-02 10:18:39

End at: 2018-01-02 10:19:09

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.273 ms

Loss rate: 0.95%

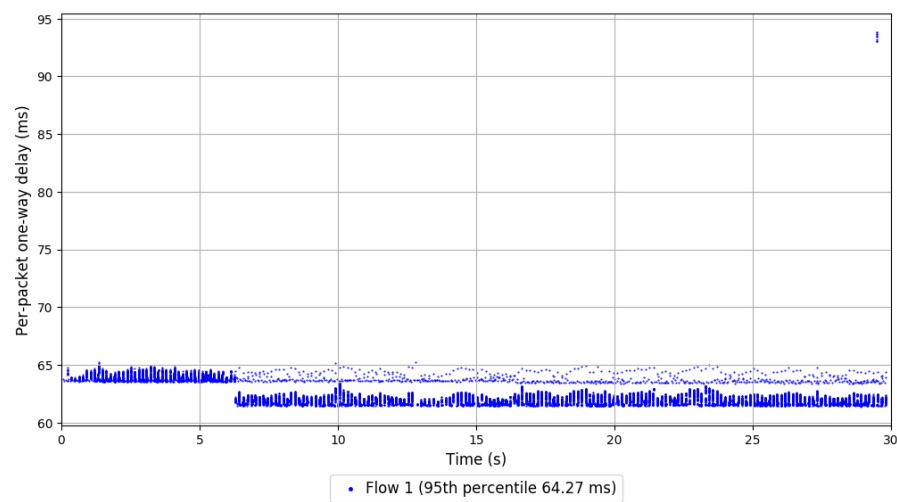
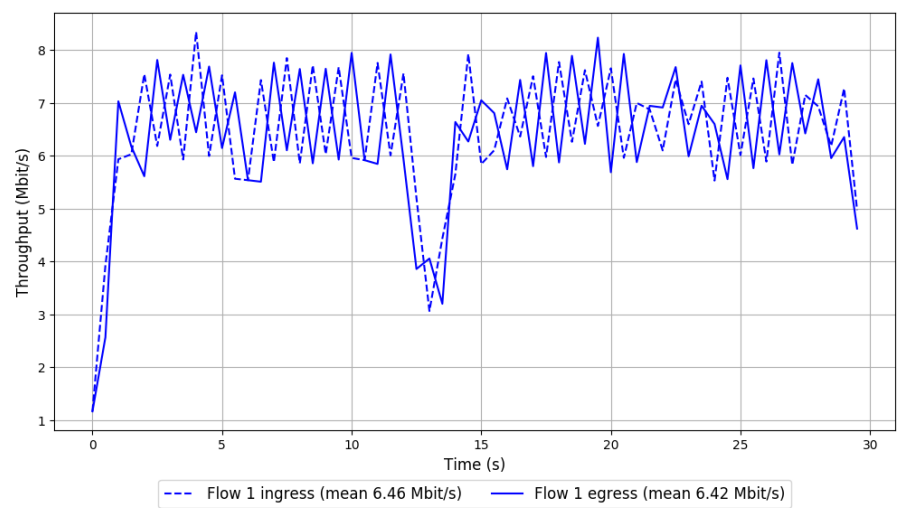
-- Flow 1:

Average throughput: 6.42 Mbit/s

95th percentile per-packet one-way delay: 64.273 ms

Loss rate: 0.95%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-02 10:30:30

End at: 2018-01-02 10:31:00

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.834 ms

Loss rate: 0.97%

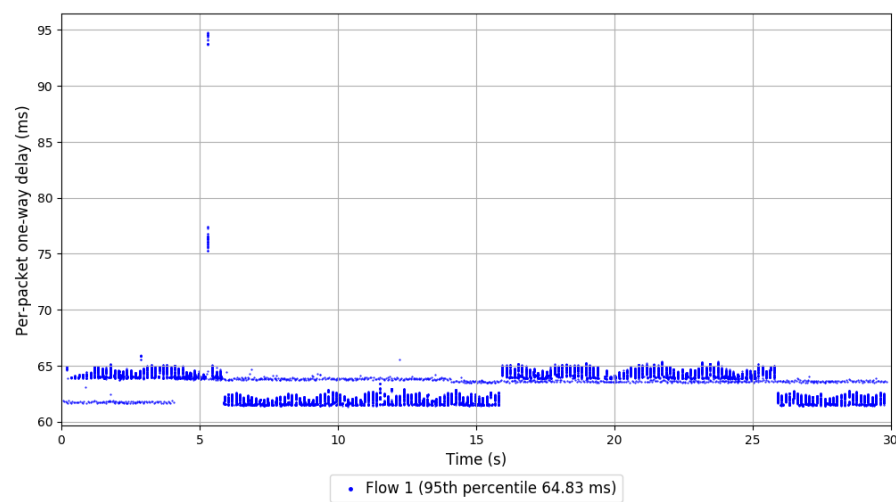
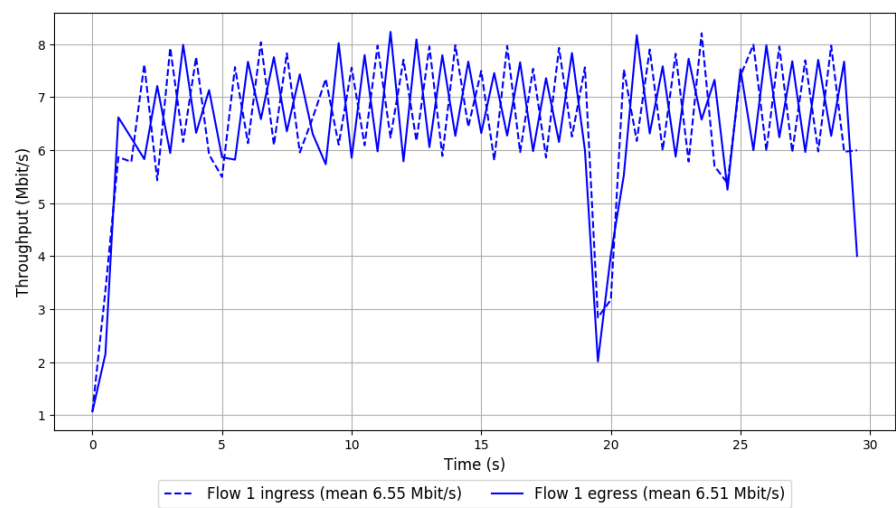
-- Flow 1:

Average throughput: 6.51 Mbit/s

95th percentile per-packet one-way delay: 64.834 ms

Loss rate: 0.97%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-02 10:41:58

End at: 2018-01-02 10:42:28

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 65.301 ms

Loss rate: 1.55%

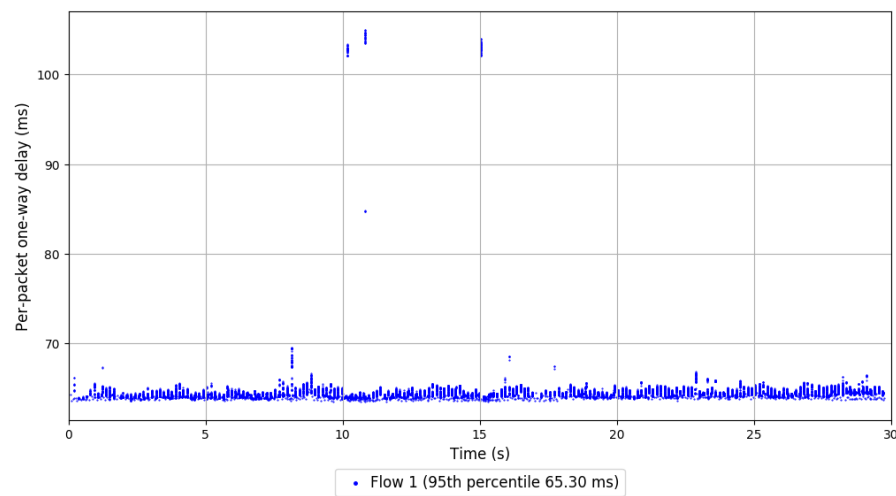
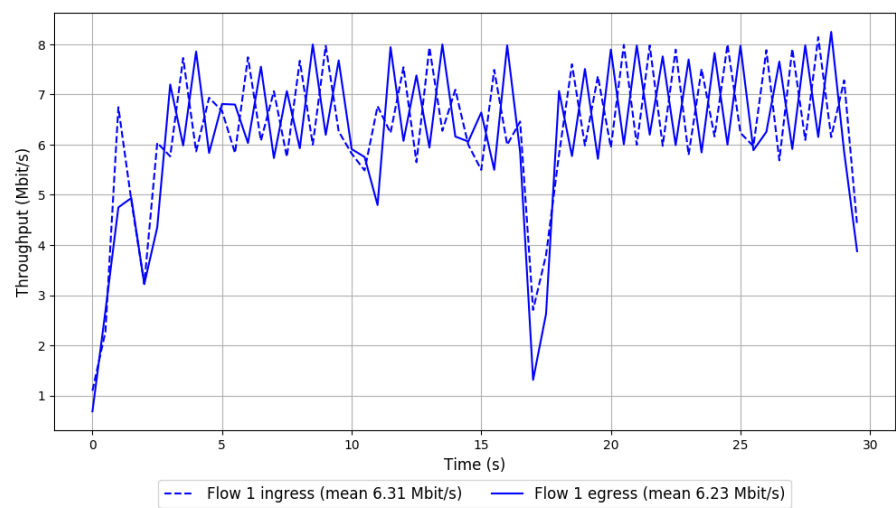
-- Flow 1:

Average throughput: 6.23 Mbit/s

95th percentile per-packet one-way delay: 65.301 ms

Loss rate: 1.55%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-02 10:53:02

End at: 2018-01-02 10:53:32

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 64.973 ms

Loss rate: 0.99%

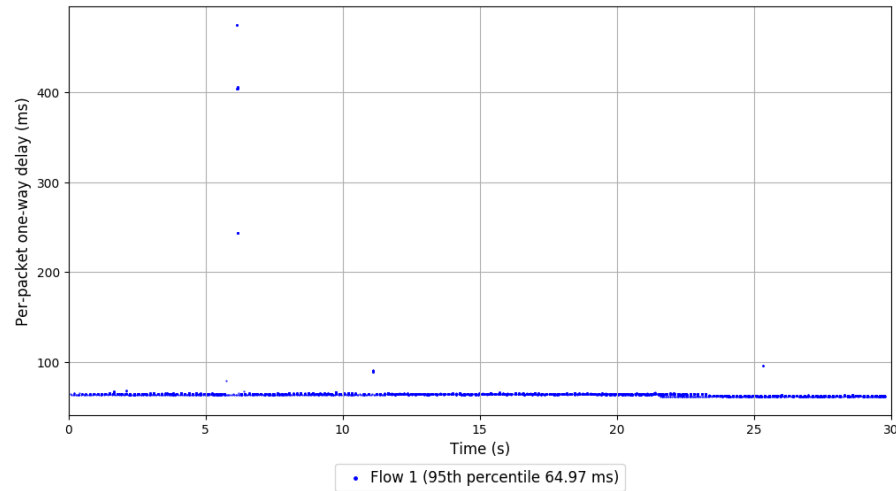
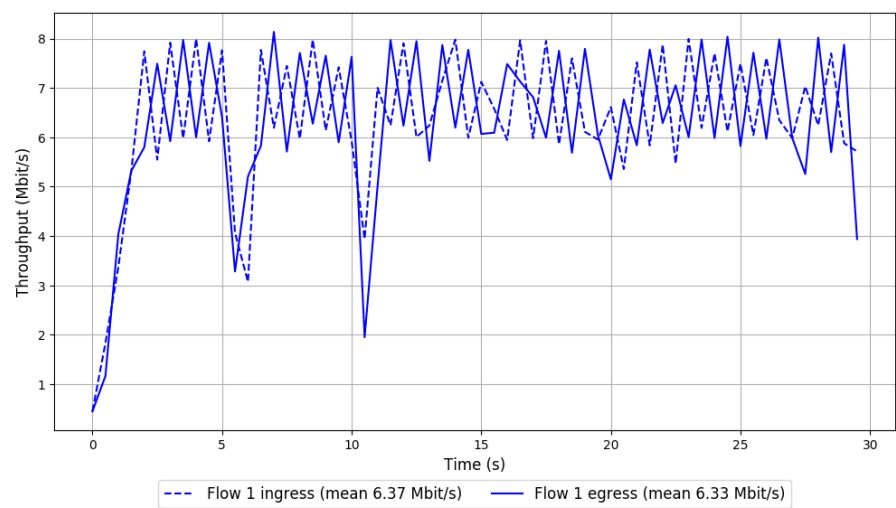
-- Flow 1:

Average throughput: 6.33 Mbit/s

95th percentile per-packet one-way delay: 64.973 ms

Loss rate: 0.99%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

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

End at: 2018-01-02 11:04:31

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 65.018 ms

Loss rate: 0.94%

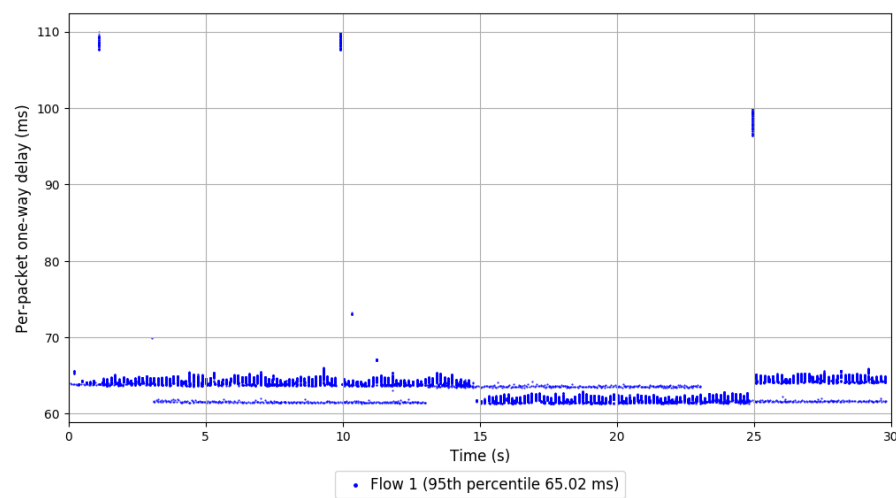
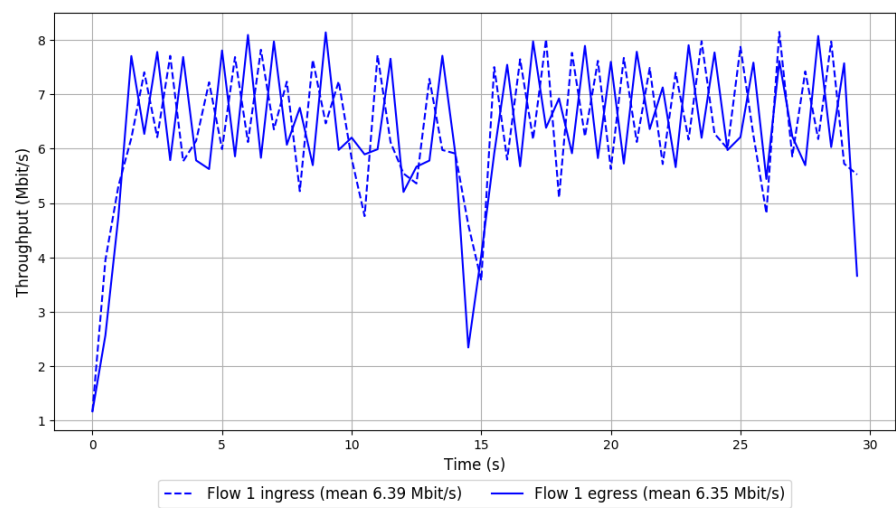
-- Flow 1:

Average throughput: 6.35 Mbit/s

95th percentile per-packet one-way delay: 65.018 ms

Loss rate: 0.94%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-02 11:14:57

End at: 2018-01-02 11:15:27

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 66.570 ms

Loss rate: 1.02%

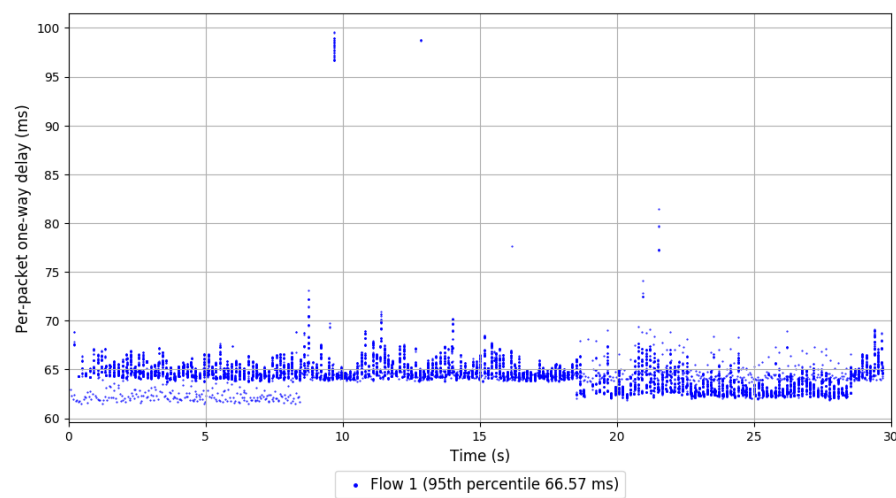
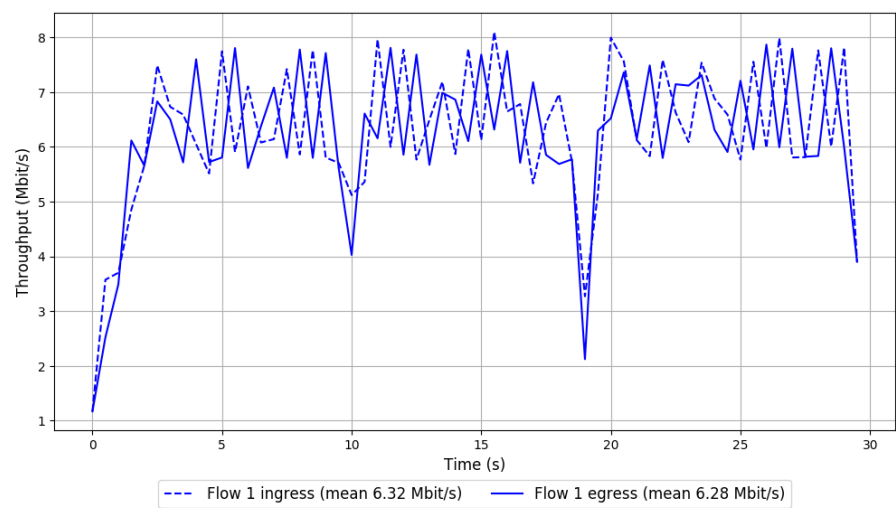
-- Flow 1:

Average throughput: 6.28 Mbit/s

95th percentile per-packet one-way delay: 66.570 ms

Loss rate: 1.02%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-02 11:25:30

End at: 2018-01-02 11:26:00

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 64.829 ms

Loss rate: 0.81%

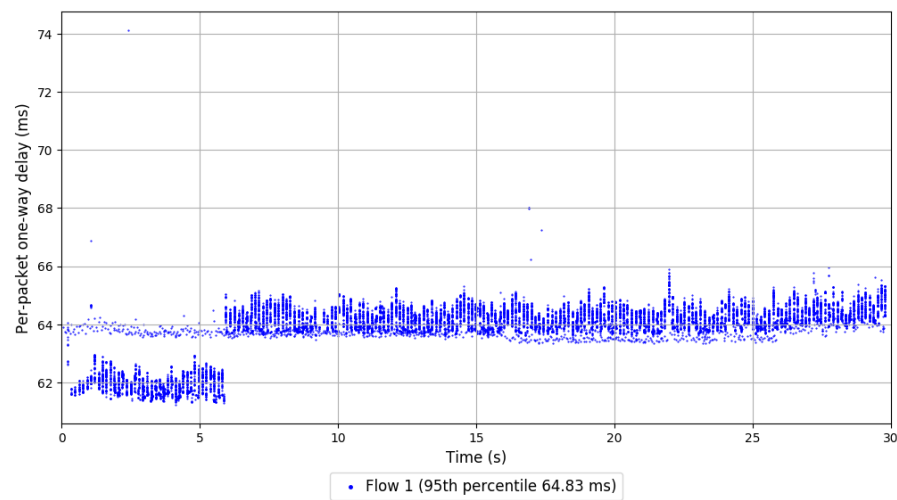
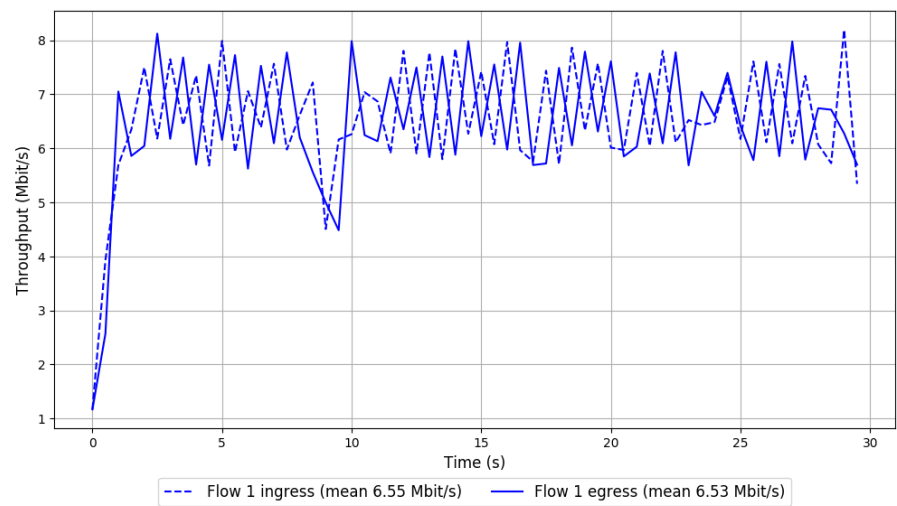
-- Flow 1:

Average throughput: 6.53 Mbit/s

95th percentile per-packet one-way delay: 64.829 ms

Loss rate: 0.81%

Run 10: Report of Sprout — Data Link

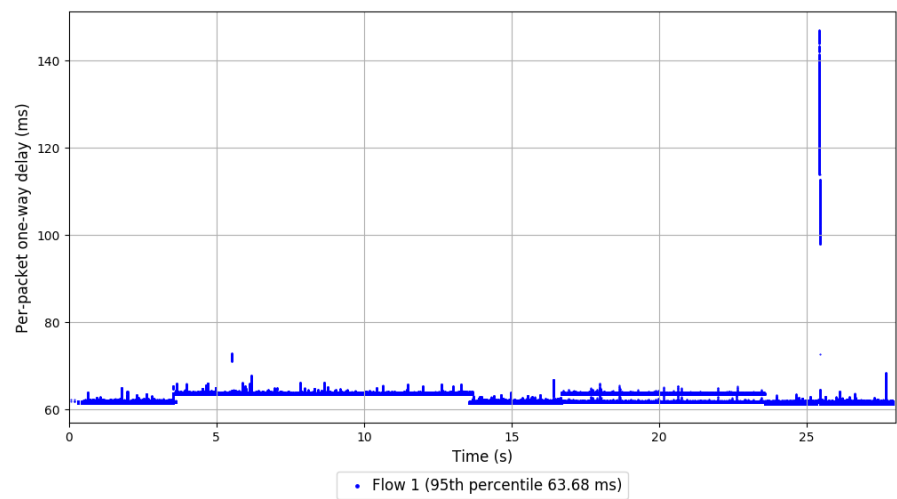
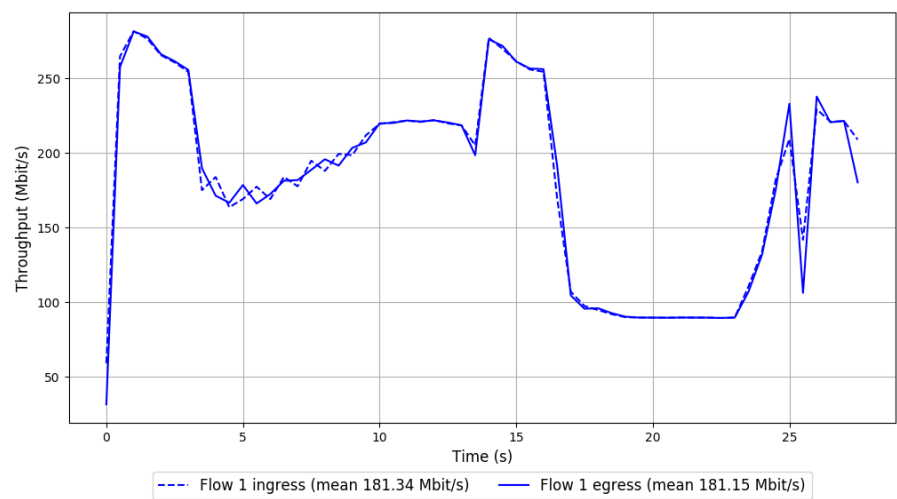


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-02 09:49:40
End at: 2018-01-02 09:50:10

# Below is generated by plot.py at 2018-01-02 13:53:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.15 Mbit/s
95th percentile per-packet one-way delay: 63.678 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 181.15 Mbit/s
95th percentile per-packet one-way delay: 63.678 ms
Loss rate: 0.55%
```

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

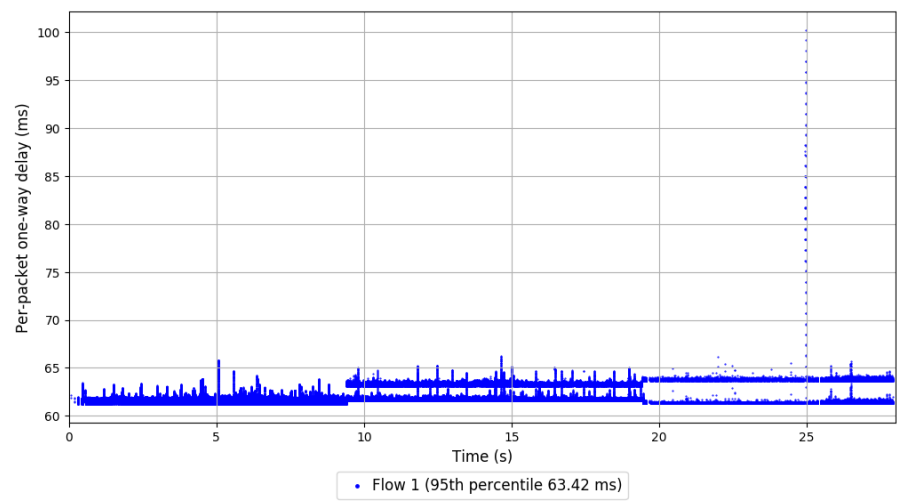
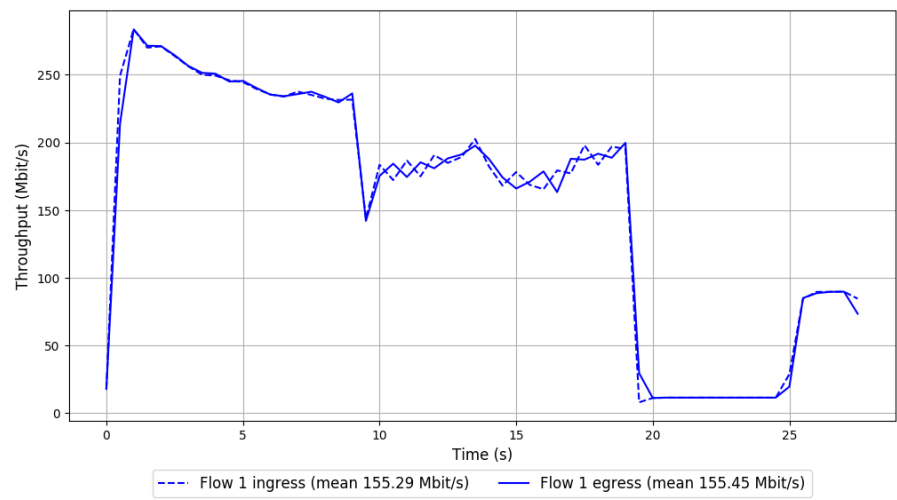


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-02 10:01:14
End at: 2018-01-02 10:01:44

# Below is generated by plot.py at 2018-01-02 13:53:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.45 Mbit/s
95th percentile per-packet one-way delay: 63.423 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 155.45 Mbit/s
95th percentile per-packet one-way delay: 63.423 ms
Loss rate: 0.34%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-01-02 10:12:55

End at: 2018-01-02 10:13:25

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 64.031 ms

Loss rate: 0.65%

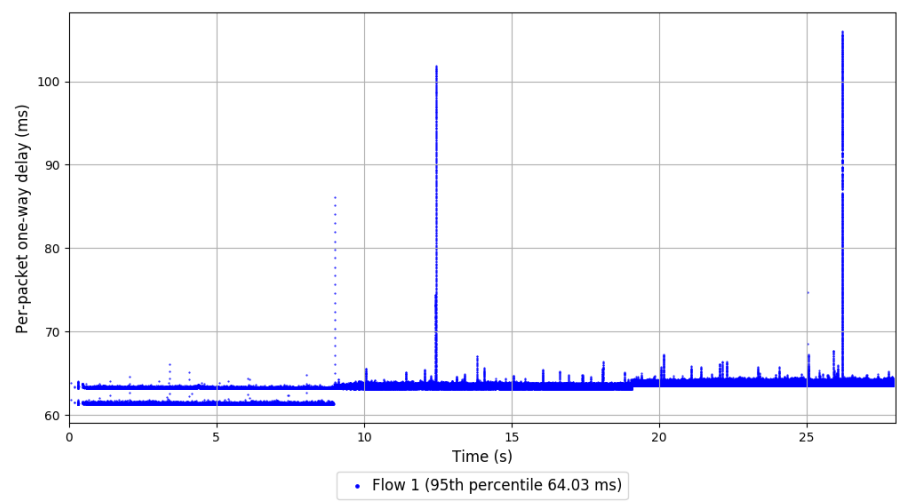
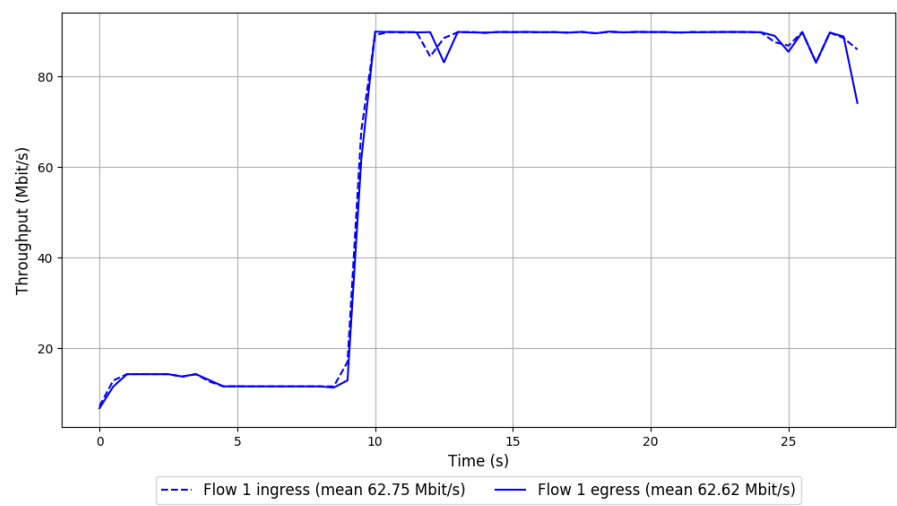
-- Flow 1:

Average throughput: 62.62 Mbit/s

95th percentile per-packet one-way delay: 64.031 ms

Loss rate: 0.65%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-02 10:24:33

End at: 2018-01-02 10:25:03

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.98 Mbit/s

95th percentile per-packet one-way delay: 64.082 ms

Loss rate: 0.21%

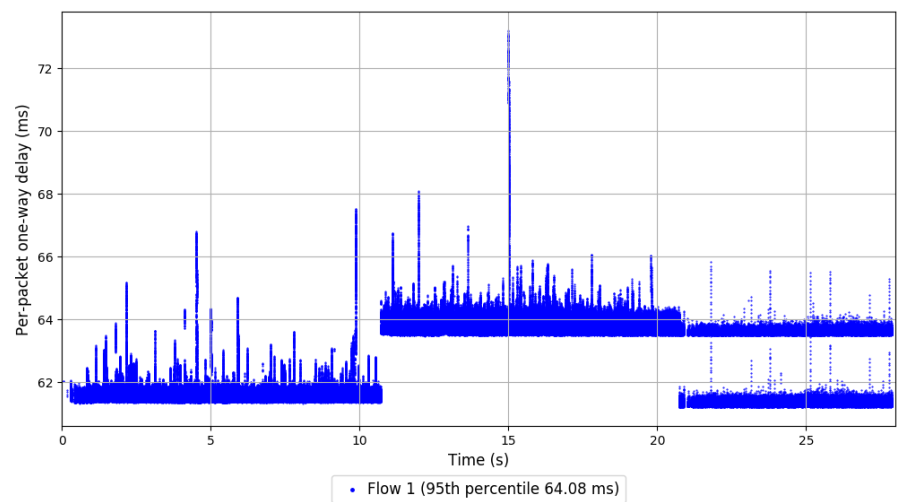
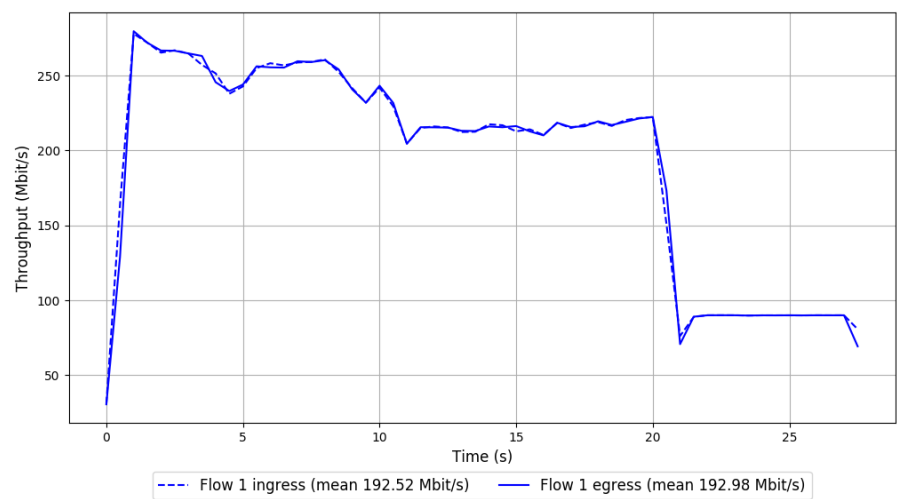
-- Flow 1:

Average throughput: 192.98 Mbit/s

95th percentile per-packet one-way delay: 64.082 ms

Loss rate: 0.21%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-02 10:36:18

End at: 2018-01-02 10:36:48

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.36 Mbit/s

95th percentile per-packet one-way delay: 63.898 ms

Loss rate: 0.41%

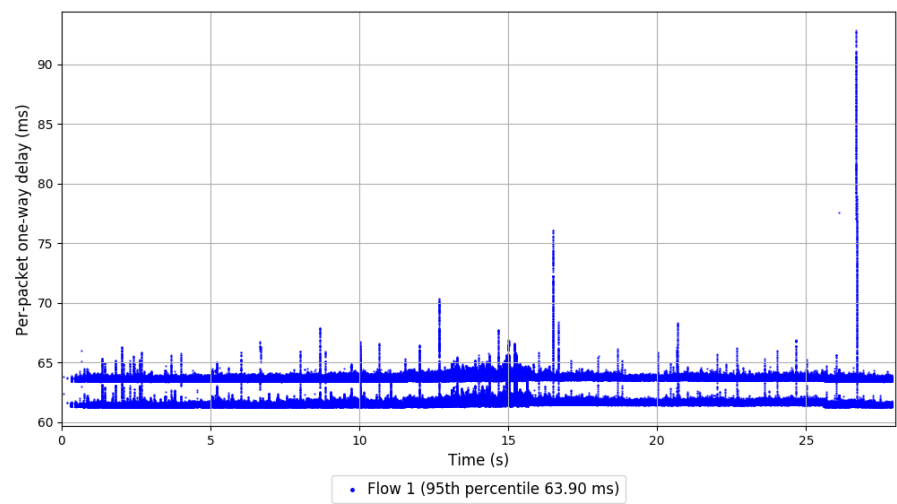
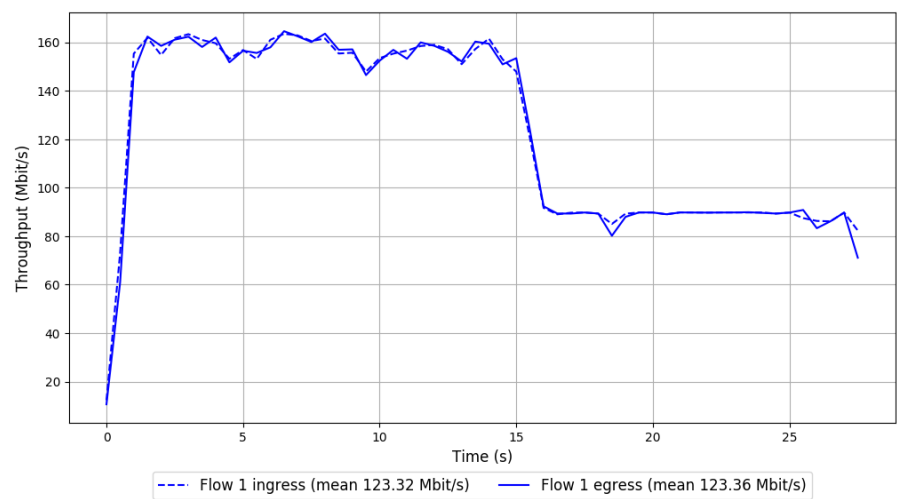
-- Flow 1:

Average throughput: 123.36 Mbit/s

95th percentile per-packet one-way delay: 63.898 ms

Loss rate: 0.41%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-02 10:47:20

End at: 2018-01-02 10:47:50

Below is generated by plot.py at 2018-01-02 13:53:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.05 Mbit/s

95th percentile per-packet one-way delay: 64.155 ms

Loss rate: 0.27%

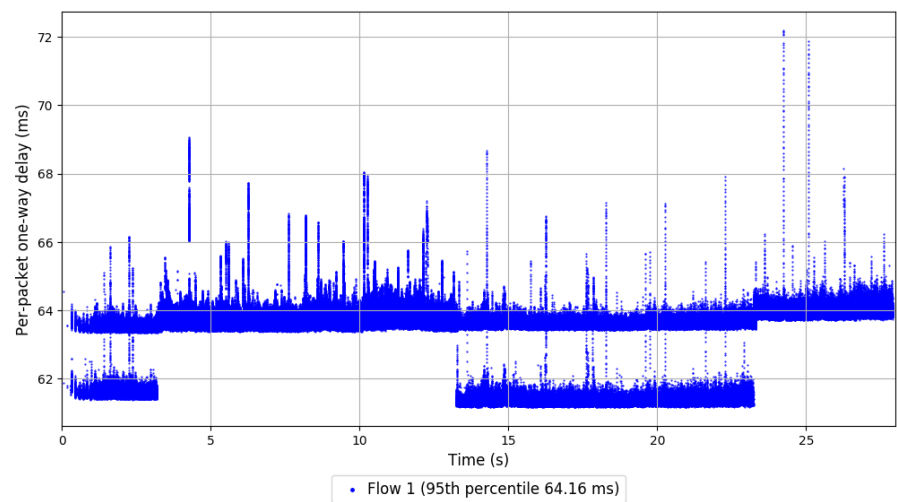
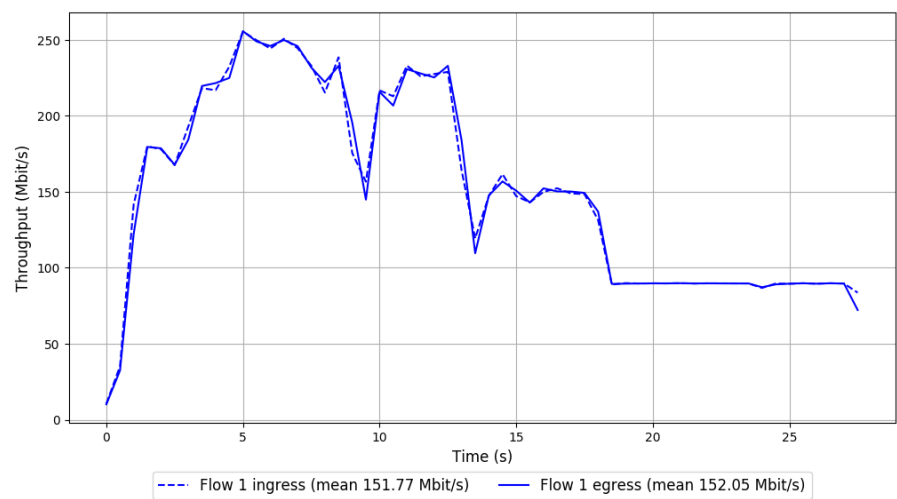
-- Flow 1:

Average throughput: 152.05 Mbit/s

95th percentile per-packet one-way delay: 64.155 ms

Loss rate: 0.27%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-02 10:58:17

End at: 2018-01-02 10:58:47

Below is generated by plot.py at 2018-01-02 13:54:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.07 Mbit/s

95th percentile per-packet one-way delay: 64.039 ms

Loss rate: 0.43%

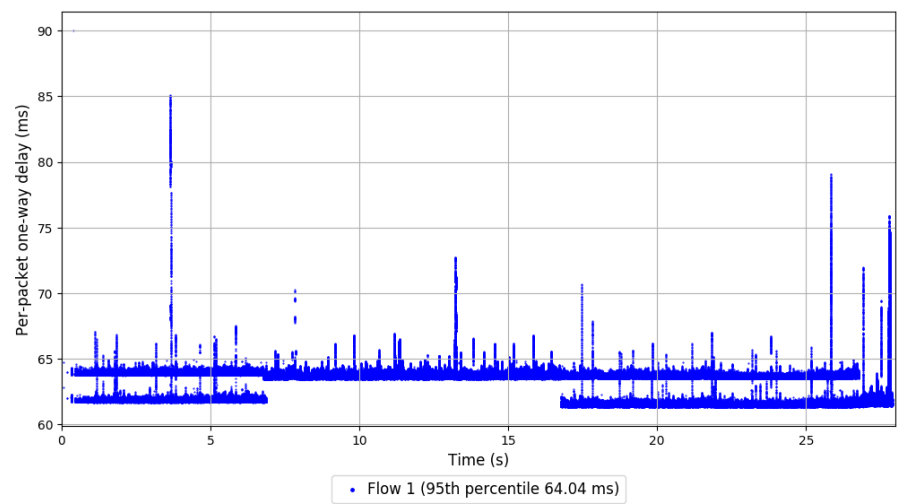
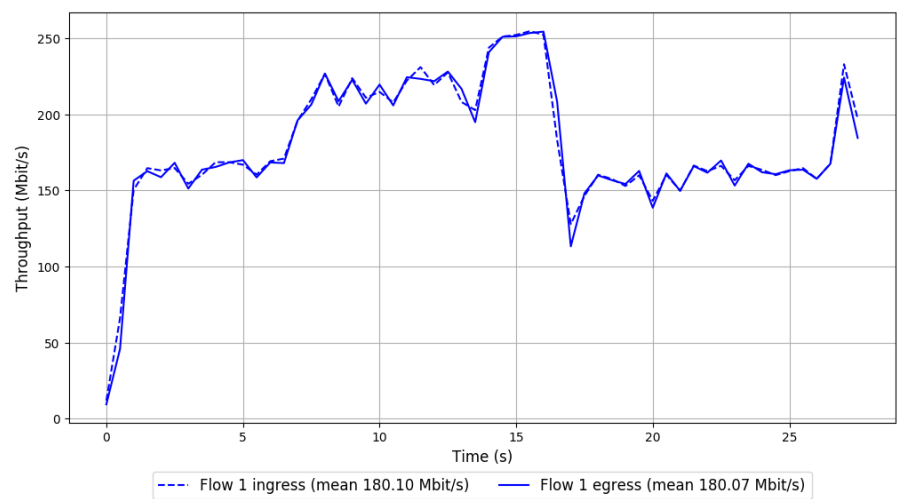
-- Flow 1:

Average throughput: 180.07 Mbit/s

95th percentile per-packet one-way delay: 64.039 ms

Loss rate: 0.43%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-02 11:09:21

End at: 2018-01-02 11:09:51

Below is generated by plot.py at 2018-01-02 13:54:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.43 Mbit/s

95th percentile per-packet one-way delay: 65.402 ms

Loss rate: 0.41%

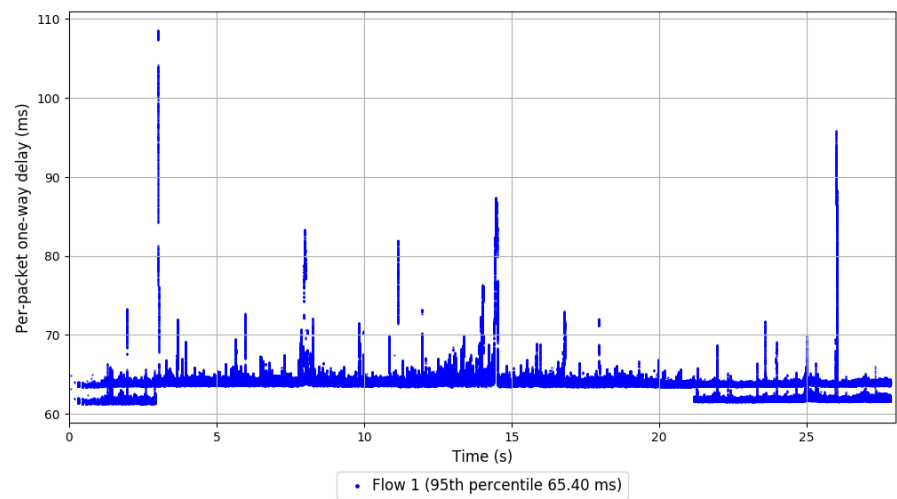
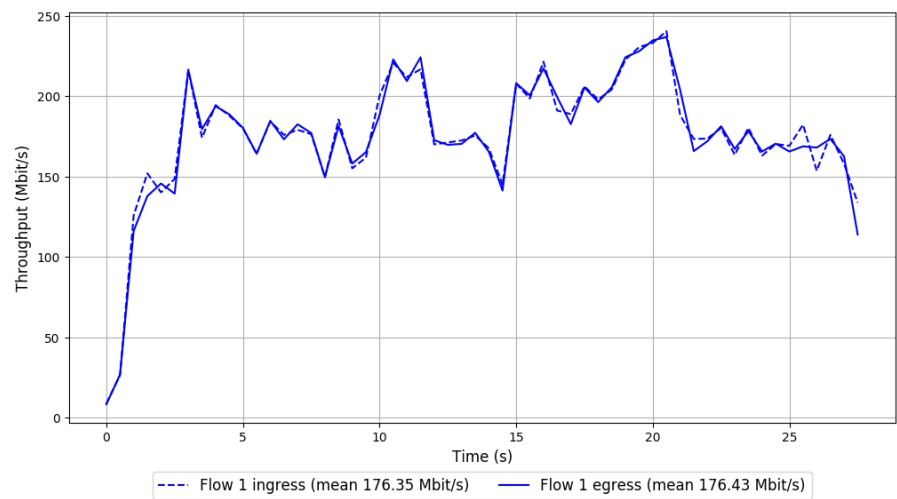
-- Flow 1:

Average throughput: 176.43 Mbit/s

95th percentile per-packet one-way delay: 65.402 ms

Loss rate: 0.41%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-02 11:19:58

End at: 2018-01-02 11:20:28

Below is generated by plot.py at 2018-01-02 13:54:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.42 Mbit/s

95th percentile per-packet one-way delay: 64.887 ms

Loss rate: 0.86%

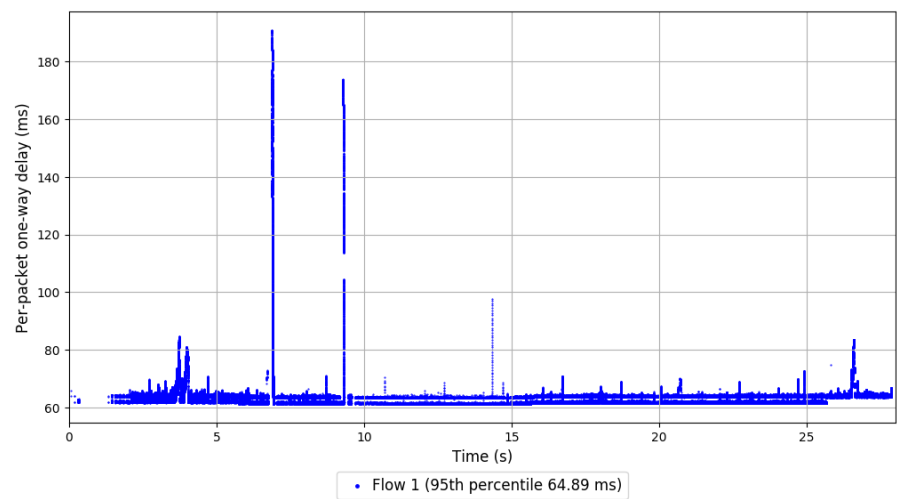
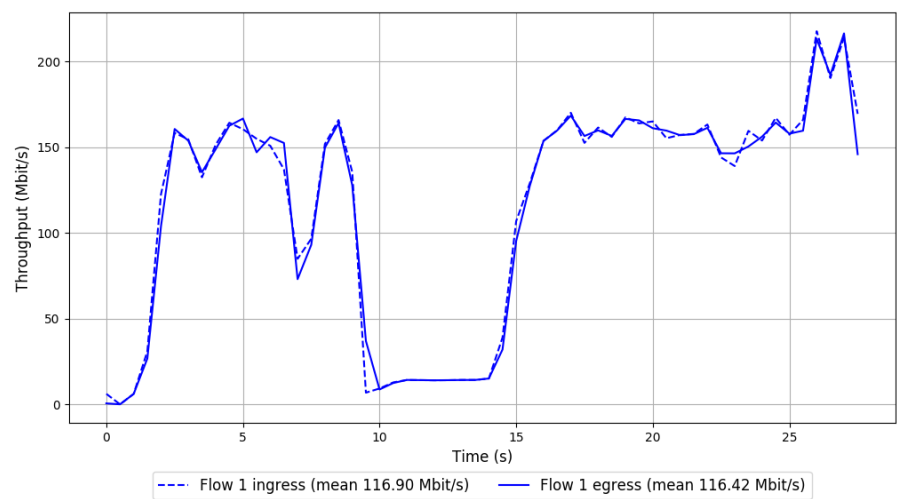
-- Flow 1:

Average throughput: 116.42 Mbit/s

95th percentile per-packet one-way delay: 64.887 ms

Loss rate: 0.86%

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

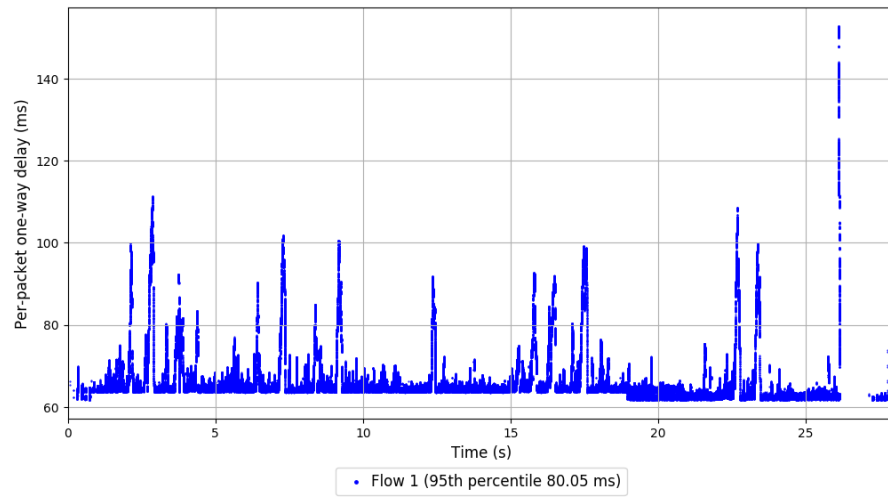
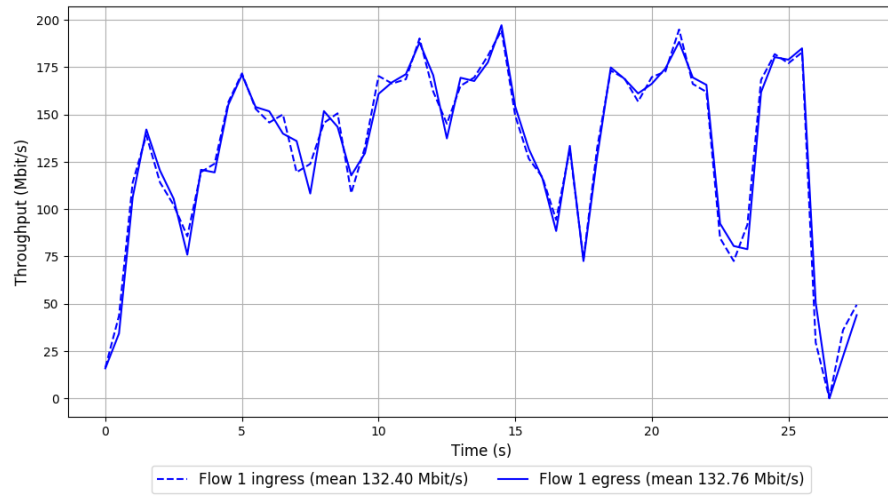


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-02 11:30:43
End at: 2018-01-02 11:31:13

# Below is generated by plot.py at 2018-01-02 13:55:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.76 Mbit/s
95th percentile per-packet one-way delay: 80.052 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 132.76 Mbit/s
95th percentile per-packet one-way delay: 80.052 ms
Loss rate: 0.26%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-02 09:42:27

End at: 2018-01-02 09:42:57

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 63.946 ms

Loss rate: 0.39%

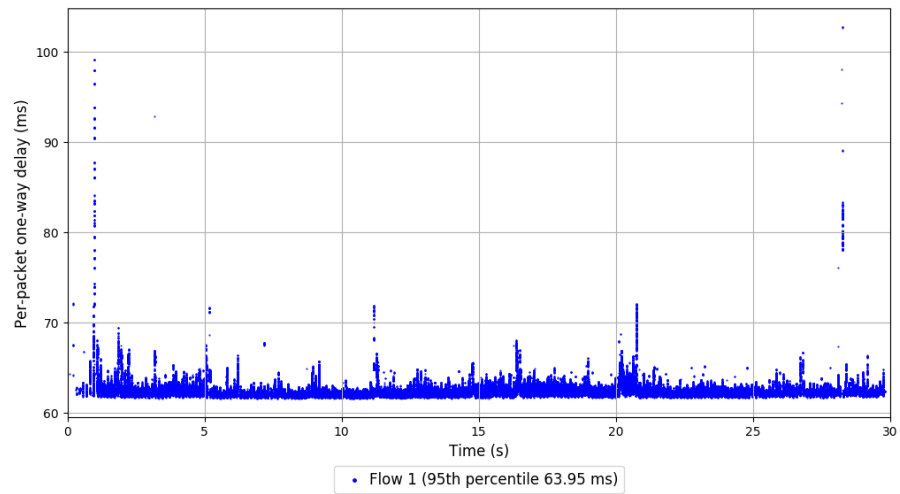
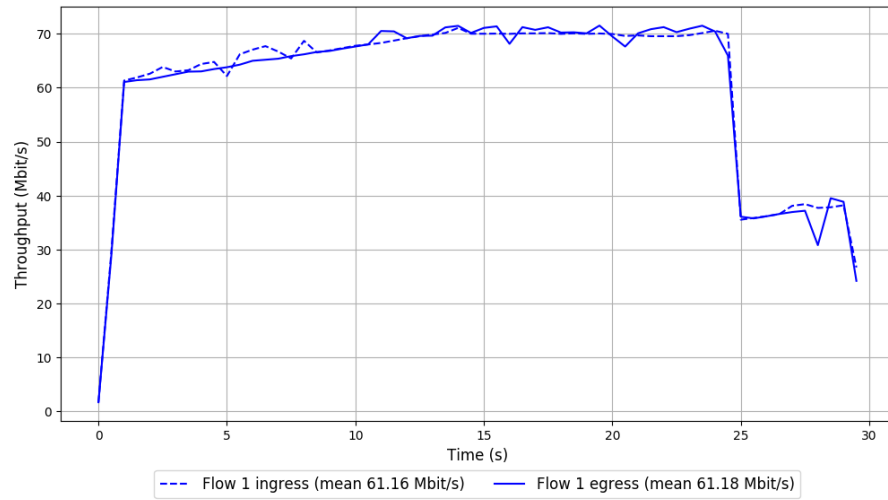
-- Flow 1:

Average throughput: 61.18 Mbit/s

95th percentile per-packet one-way delay: 63.946 ms

Loss rate: 0.39%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-02 09:54:04

End at: 2018-01-02 09:54:34

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 64.024 ms

Loss rate: 0.72%

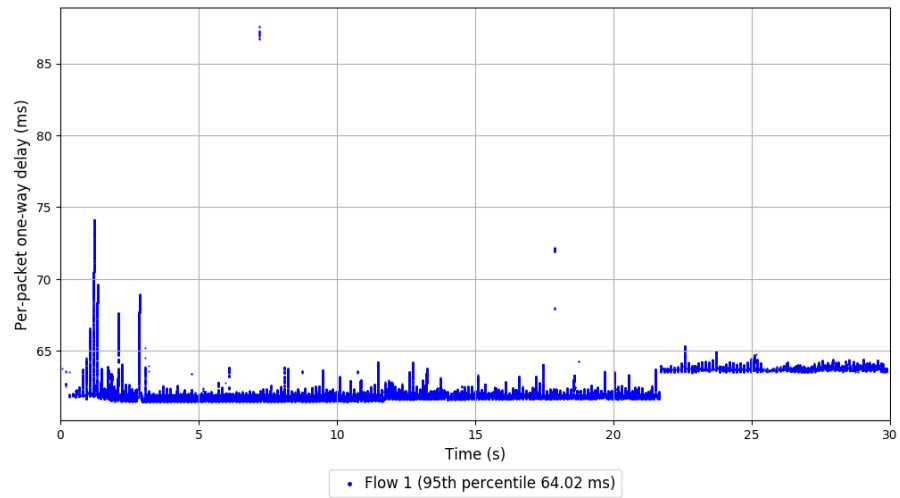
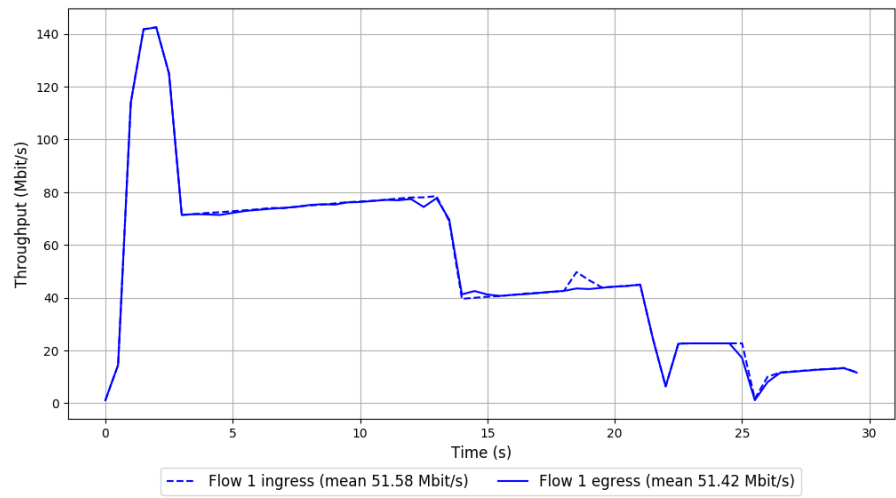
-- Flow 1:

Average throughput: 51.42 Mbit/s

95th percentile per-packet one-way delay: 64.024 ms

Loss rate: 0.72%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-02 10:05:36

End at: 2018-01-02 10:06:06

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 64.359 ms

Loss rate: 0.71%

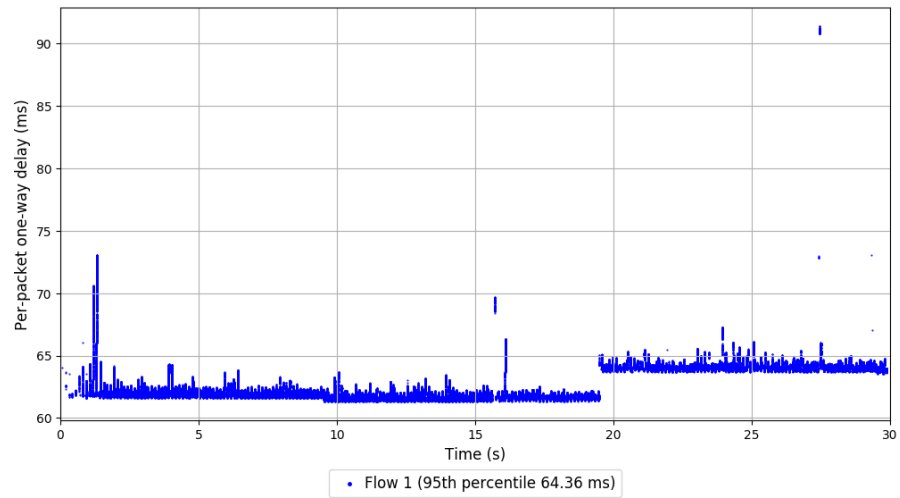
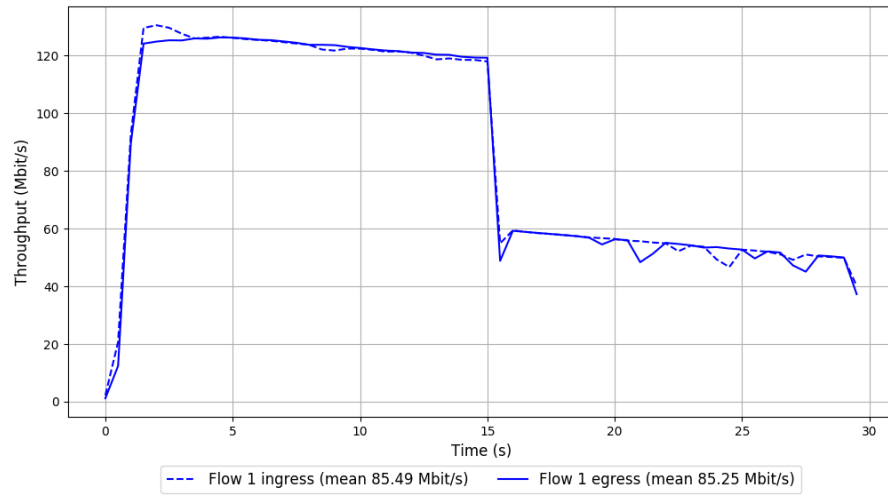
-- Flow 1:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 64.359 ms

Loss rate: 0.71%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-02 10:17:08

End at: 2018-01-02 10:17:38

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.14 Mbit/s

95th percentile per-packet one-way delay: 64.139 ms

Loss rate: 0.12%

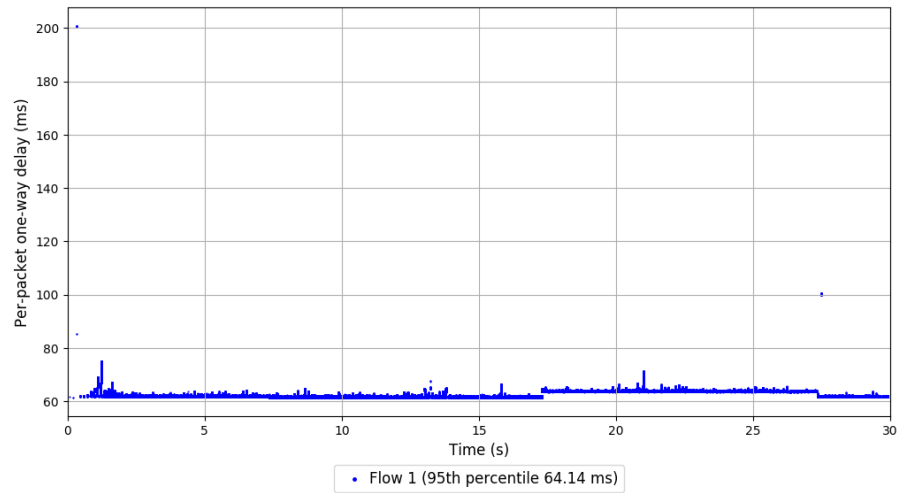
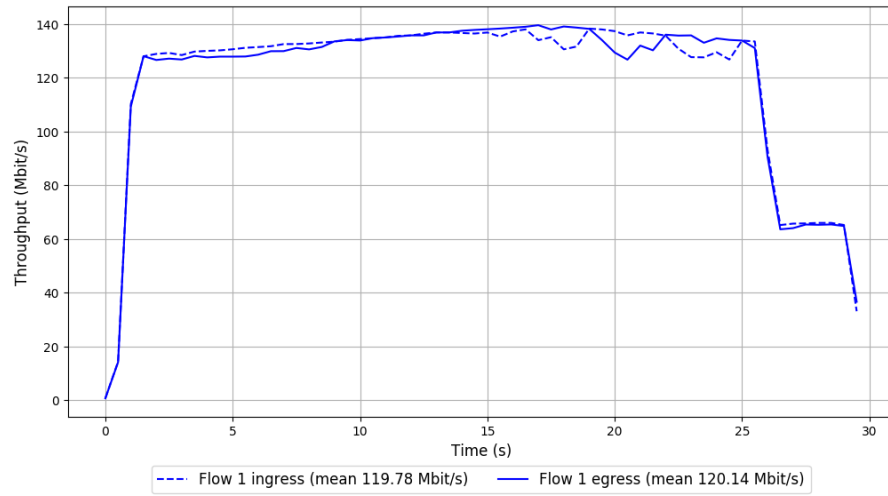
-- Flow 1:

Average throughput: 120.14 Mbit/s

95th percentile per-packet one-way delay: 64.139 ms

Loss rate: 0.12%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-02 10:29:02

End at: 2018-01-02 10:29:33

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.35 Mbit/s

95th percentile per-packet one-way delay: 64.724 ms

Loss rate: 0.39%

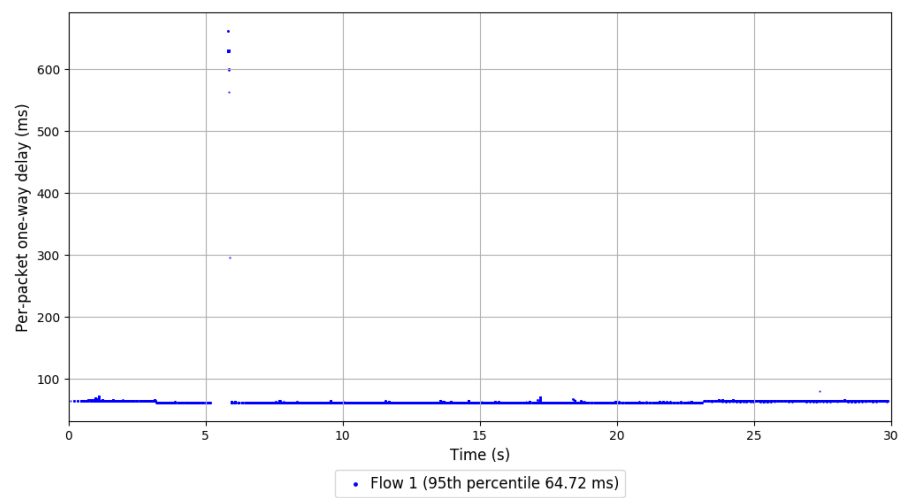
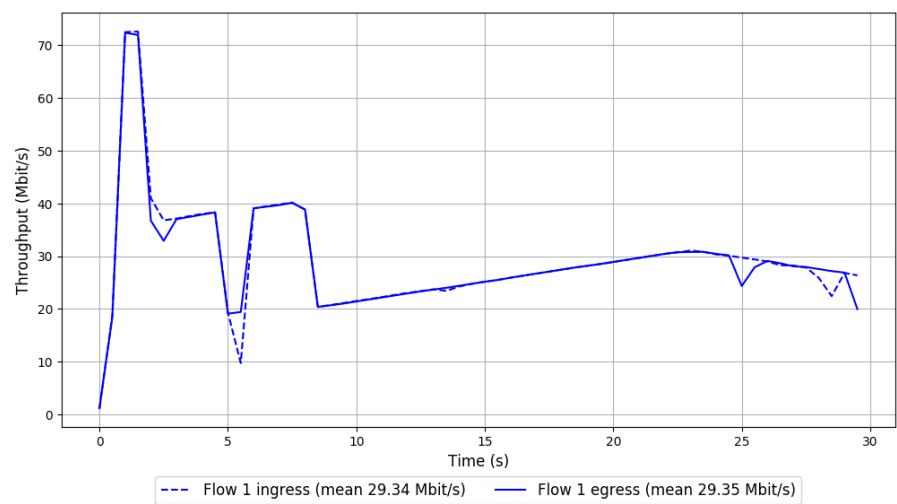
-- Flow 1:

Average throughput: 29.35 Mbit/s

95th percentile per-packet one-way delay: 64.724 ms

Loss rate: 0.39%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-02 10:40:31

End at: 2018-01-02 10:41:01

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.81 Mbit/s

95th percentile per-packet one-way delay: 64.364 ms

Loss rate: 1.52%

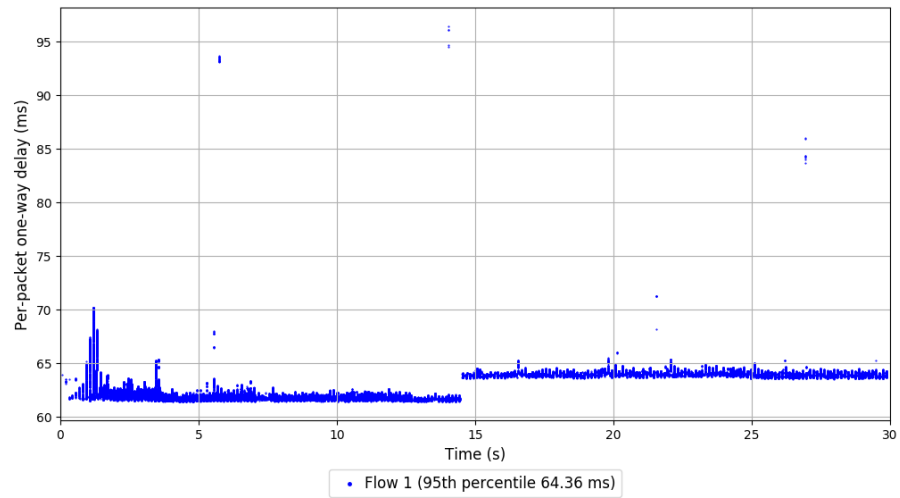
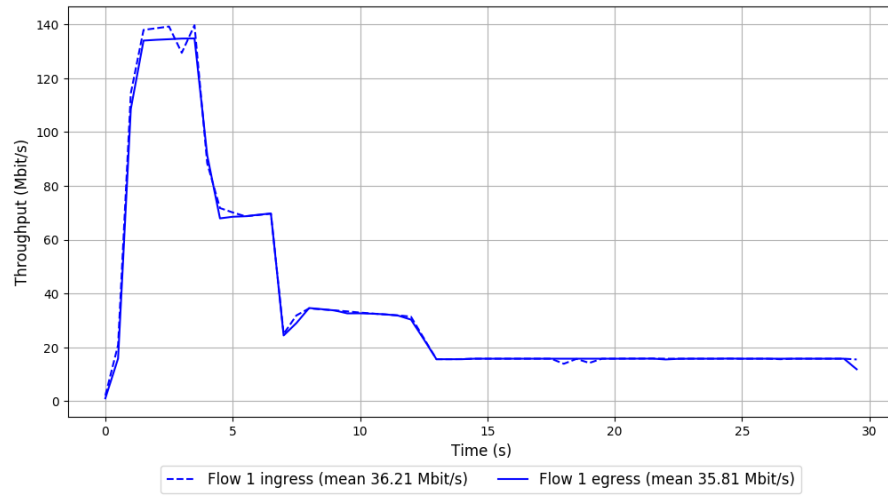
-- Flow 1:

Average throughput: 35.81 Mbit/s

95th percentile per-packet one-way delay: 64.364 ms

Loss rate: 1.52%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-02 10:51:36

End at: 2018-01-02 10:52:06

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.67 Mbit/s

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

Loss rate: 0.47%

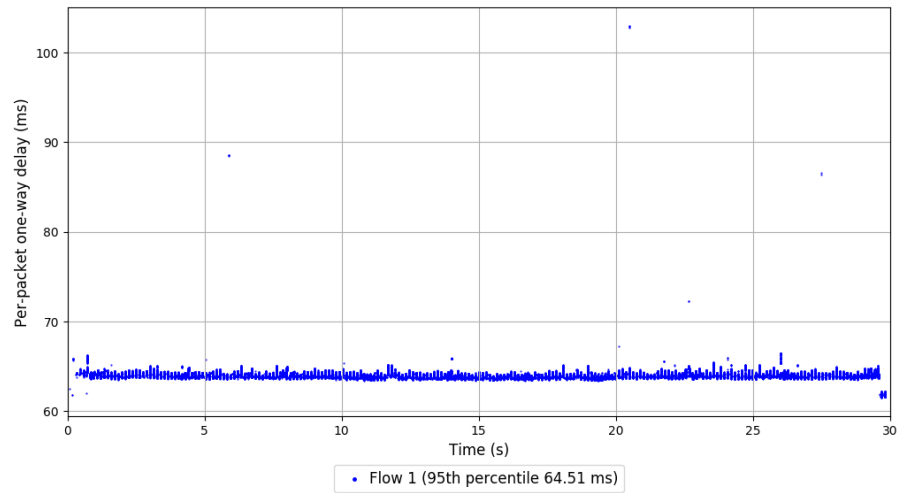
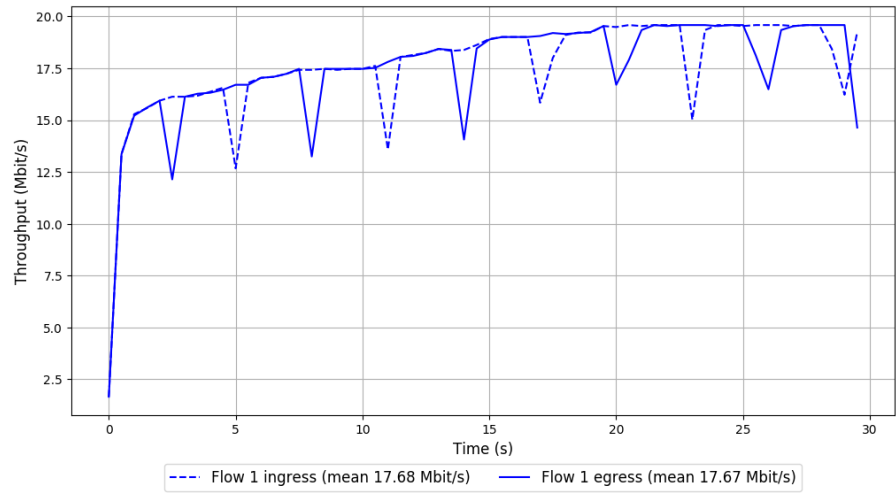
-- Flow 1:

Average throughput: 17.67 Mbit/s

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

Loss rate: 0.47%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

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

End at: 2018-01-02 11:03:05

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.80 Mbit/s

95th percentile per-packet one-way delay: 64.894 ms

Loss rate: 1.11%

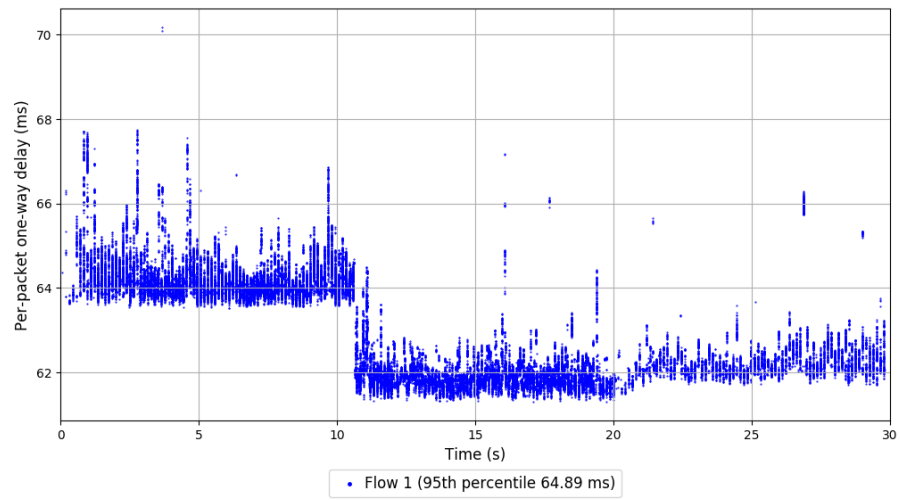
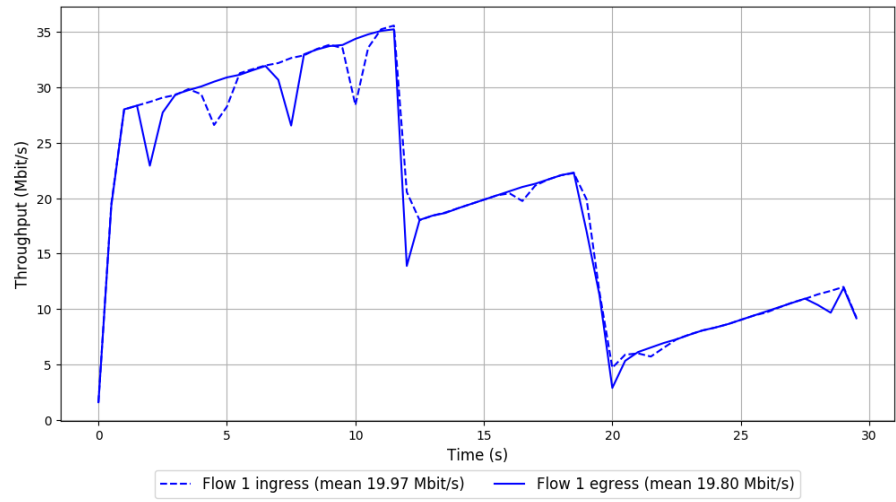
-- Flow 1:

Average throughput: 19.80 Mbit/s

95th percentile per-packet one-way delay: 64.894 ms

Loss rate: 1.11%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-02 11:13:31

End at: 2018-01-02 11:14:01

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 63.467 ms

Loss rate: 1.25%

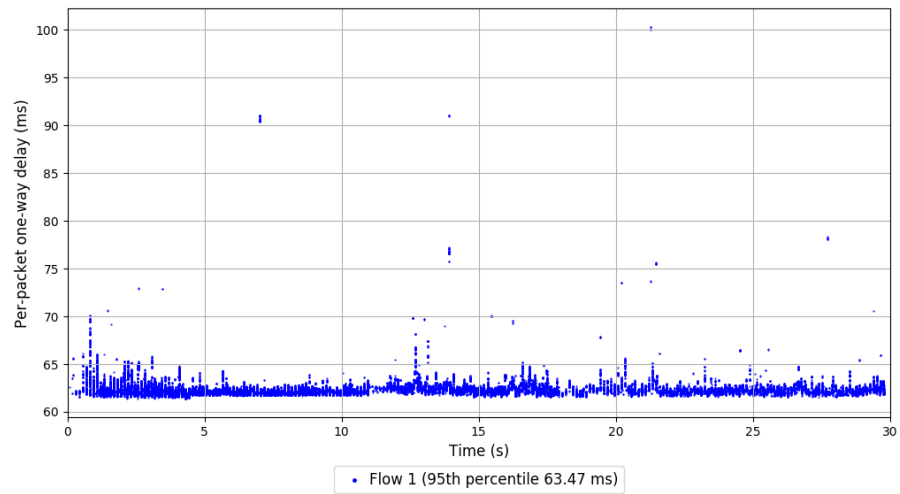
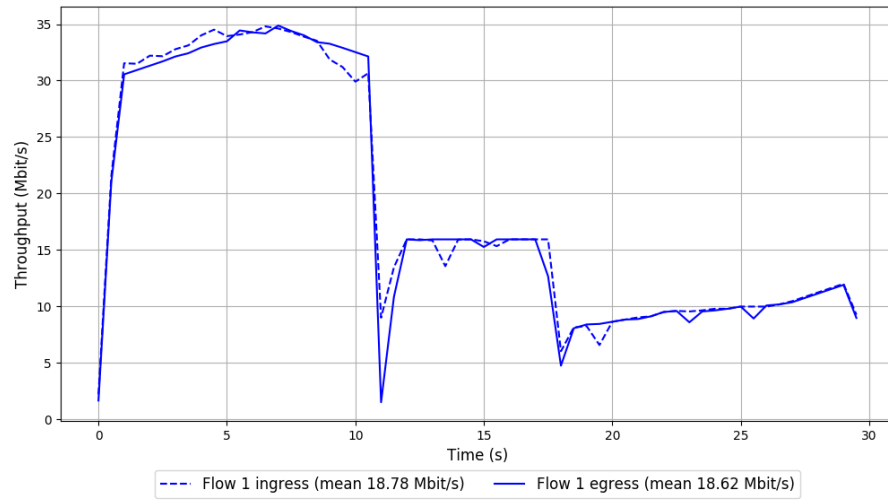
-- Flow 1:

Average throughput: 18.62 Mbit/s

95th percentile per-packet one-way delay: 63.467 ms

Loss rate: 1.25%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-02 11:24:02

End at: 2018-01-02 11:24:32

Below is generated by plot.py at 2018-01-02 13:55:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.86 Mbit/s

95th percentile per-packet one-way delay: 64.199 ms

Loss rate: 0.41%

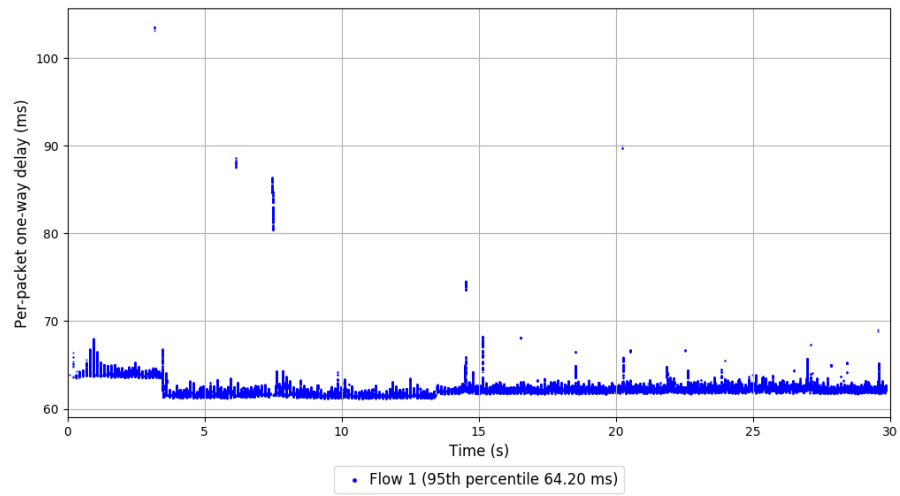
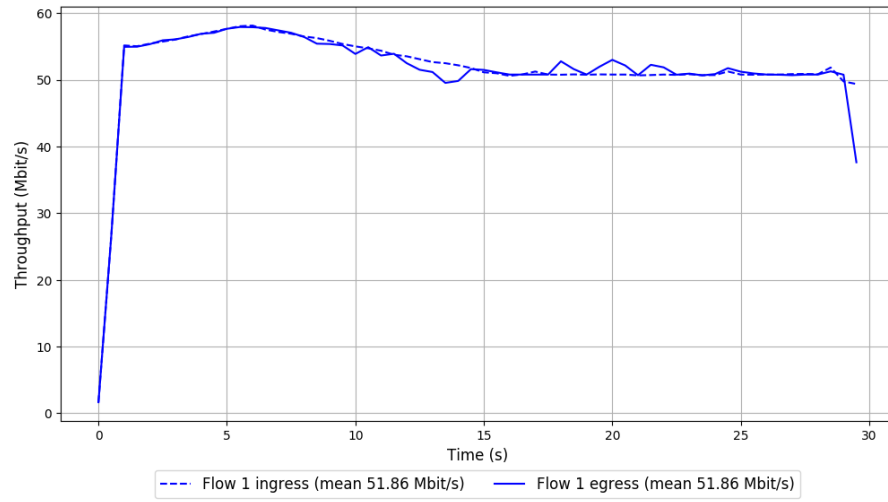
-- Flow 1:

Average throughput: 51.86 Mbit/s

95th percentile per-packet one-way delay: 64.199 ms

Loss rate: 0.41%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-02 09:48:06

End at: 2018-01-02 09:48:36

Below is generated by plot.py at 2018-01-02 13:58:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.26 Mbit/s

95th percentile per-packet one-way delay: 149.952 ms

Loss rate: 1.15%

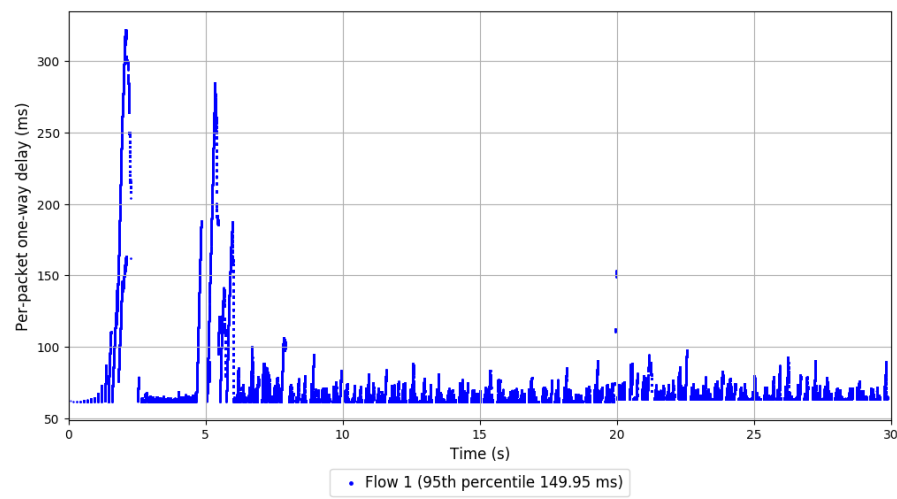
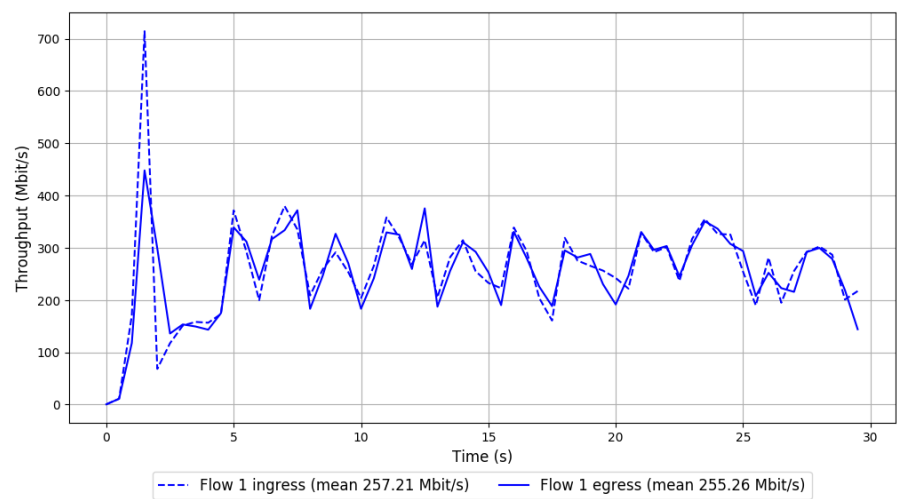
-- Flow 1:

Average throughput: 255.26 Mbit/s

95th percentile per-packet one-way delay: 149.952 ms

Loss rate: 1.15%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-02 09:59:44

End at: 2018-01-02 10:00:14

Below is generated by plot.py at 2018-01-02 13:58:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.60 Mbit/s

95th percentile per-packet one-way delay: 124.177 ms

Loss rate: 2.98%

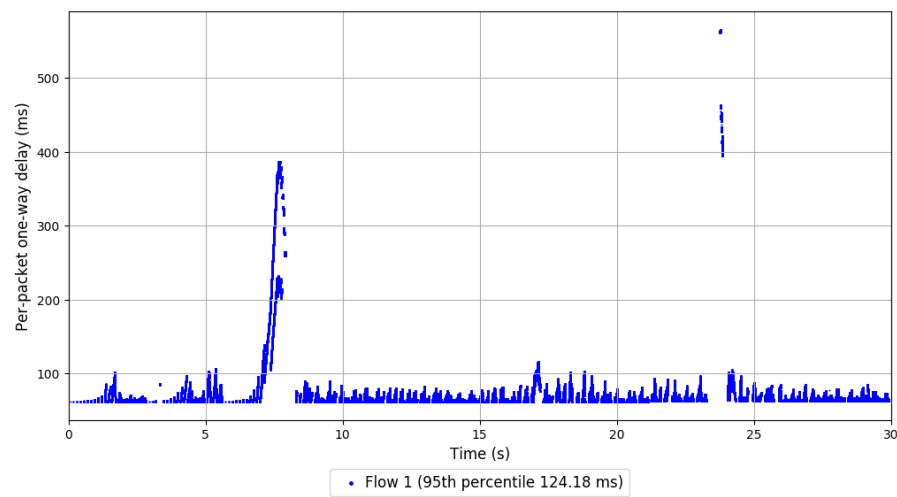
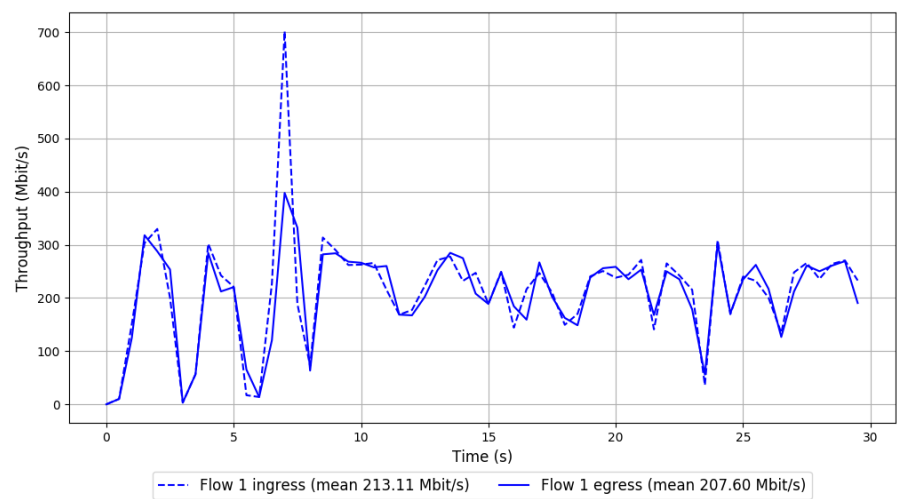
-- Flow 1:

Average throughput: 207.60 Mbit/s

95th percentile per-packet one-way delay: 124.177 ms

Loss rate: 2.98%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-02 10:11:18

End at: 2018-01-02 10:11:48

Below is generated by plot.py at 2018-01-02 13:59:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.81 Mbit/s

95th percentile per-packet one-way delay: 83.343 ms

Loss rate: 1.78%

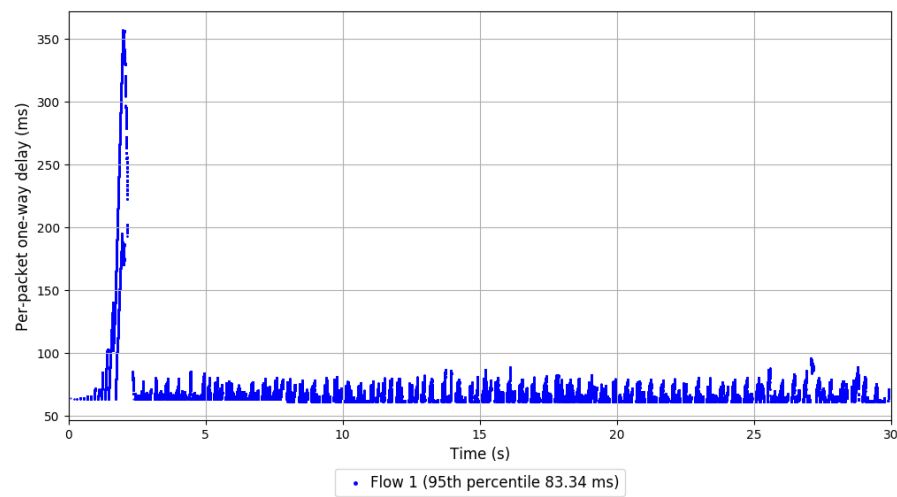
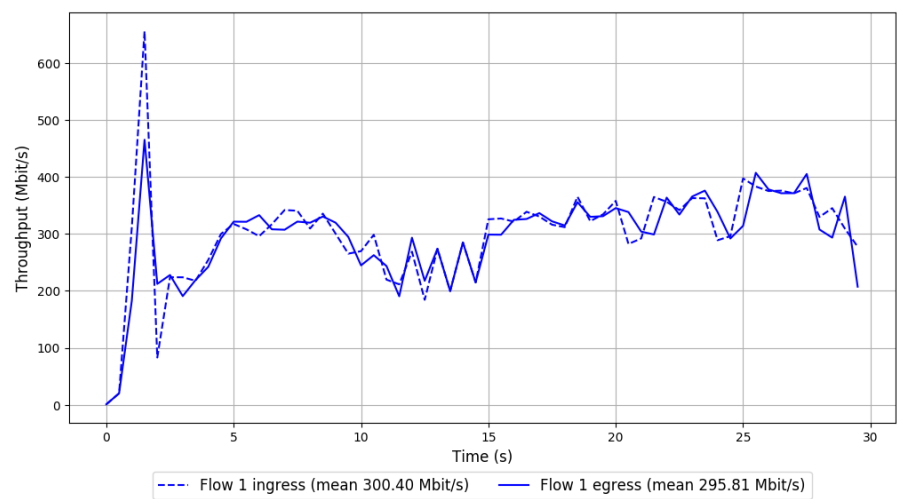
-- Flow 1:

Average throughput: 295.81 Mbit/s

95th percentile per-packet one-way delay: 83.343 ms

Loss rate: 1.78%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-02 10:22:59

End at: 2018-01-02 10:23:29

Below is generated by plot.py at 2018-01-02 13:59:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.97 Mbit/s

95th percentile per-packet one-way delay: 105.425 ms

Loss rate: 2.67%

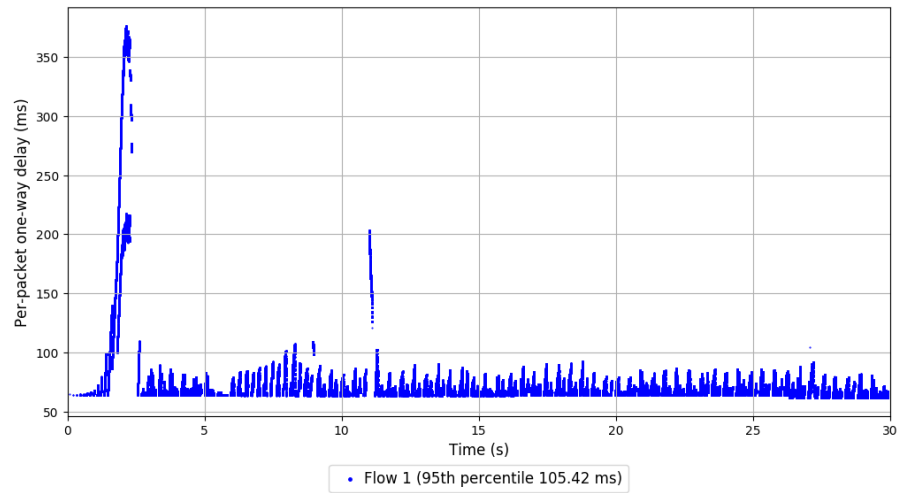
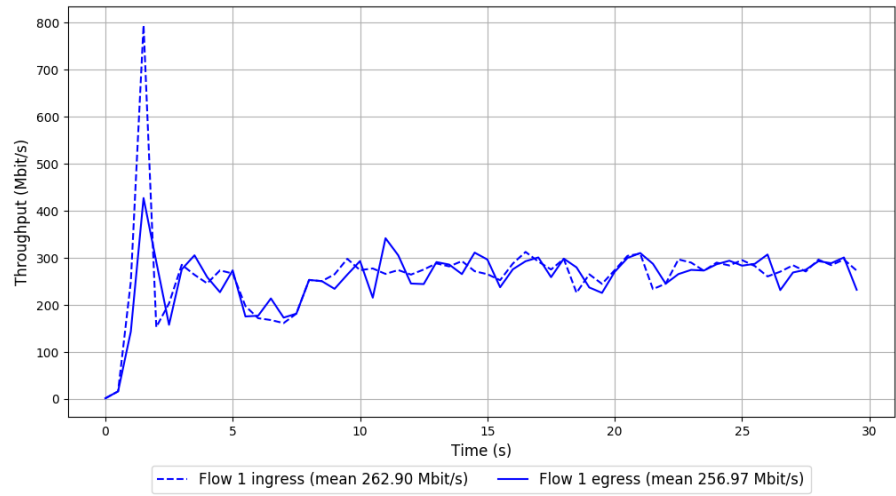
-- Flow 1:

Average throughput: 256.97 Mbit/s

95th percentile per-packet one-way delay: 105.425 ms

Loss rate: 2.67%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-02 10:34:42

End at: 2018-01-02 10:35:12

Below is generated by plot.py at 2018-01-02 14:00:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.96 Mbit/s

95th percentile per-packet one-way delay: 208.882 ms

Loss rate: 1.09%

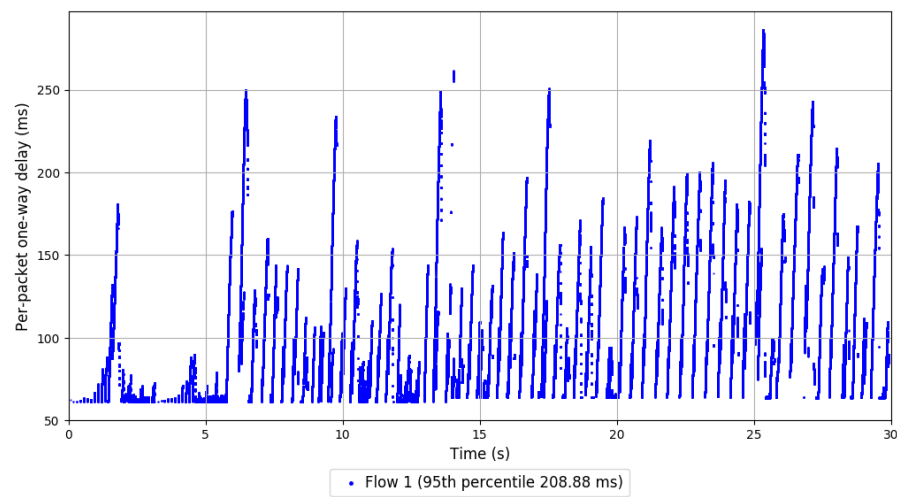
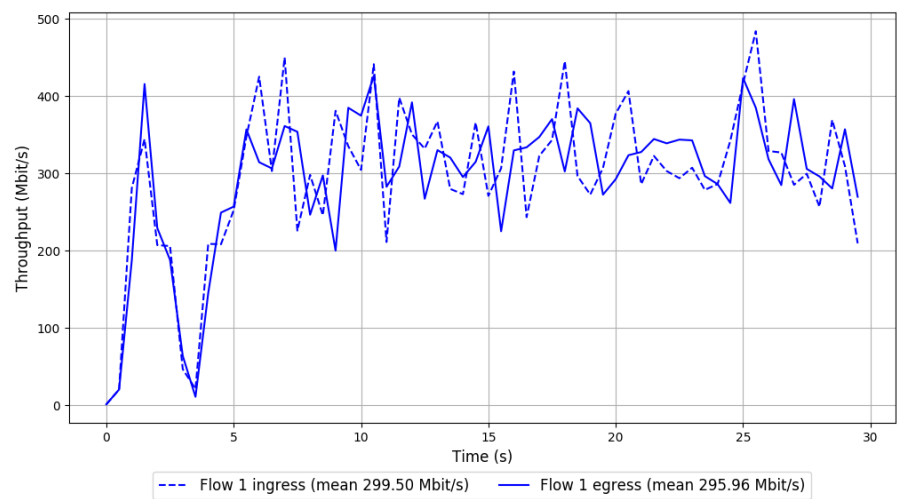
-- Flow 1:

Average throughput: 295.96 Mbit/s

95th percentile per-packet one-way delay: 208.882 ms

Loss rate: 1.09%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-02 10:45:50

End at: 2018-01-02 10:46:20

Below is generated by plot.py at 2018-01-02 14:00:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.23 Mbit/s

95th percentile per-packet one-way delay: 107.966 ms

Loss rate: 0.56%

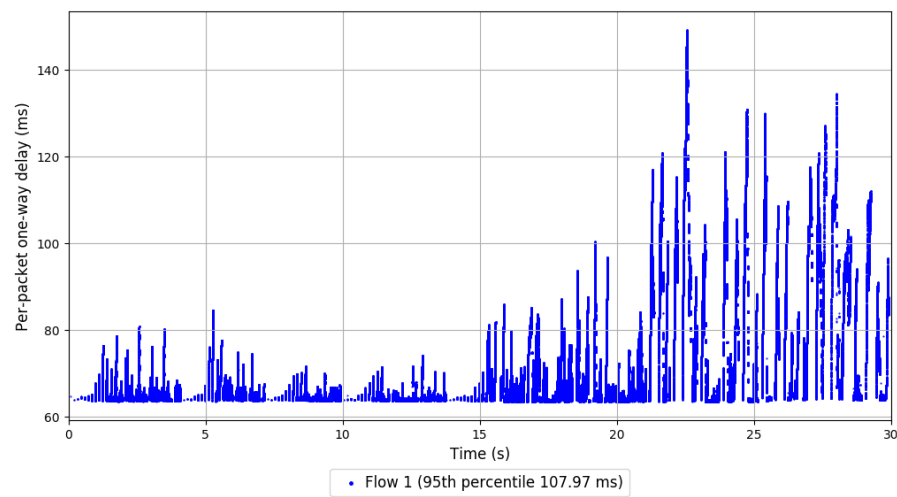
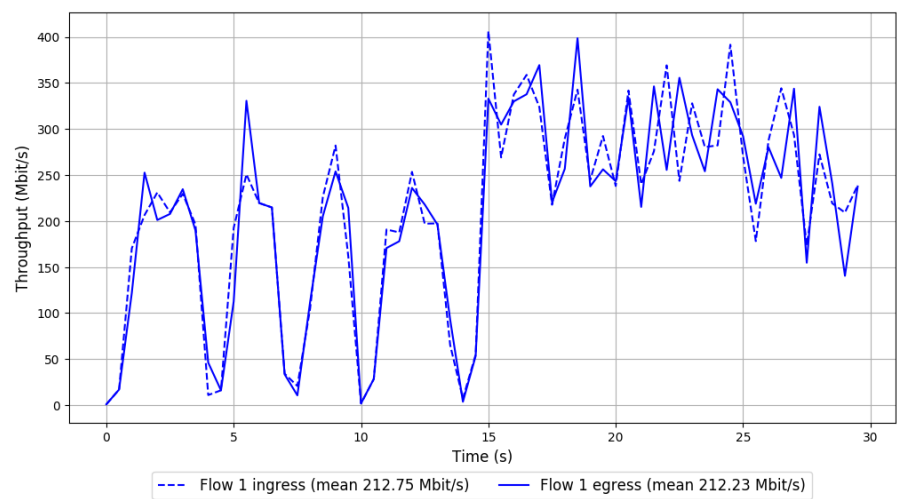
-- Flow 1:

Average throughput: 212.23 Mbit/s

95th percentile per-packet one-way delay: 107.966 ms

Loss rate: 0.56%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-02 10:56:46

End at: 2018-01-02 10:57:16

Below is generated by plot.py at 2018-01-02 14:00:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.76 Mbit/s

95th percentile per-packet one-way delay: 152.419 ms

Loss rate: 3.38%

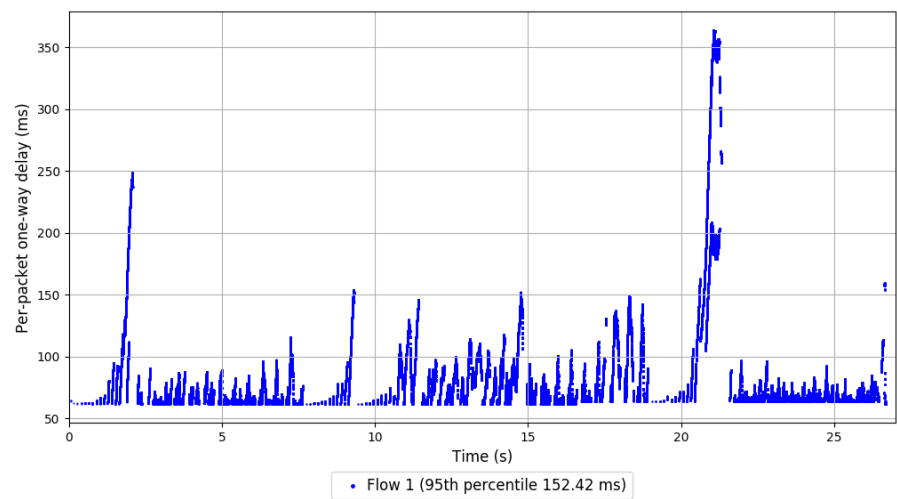
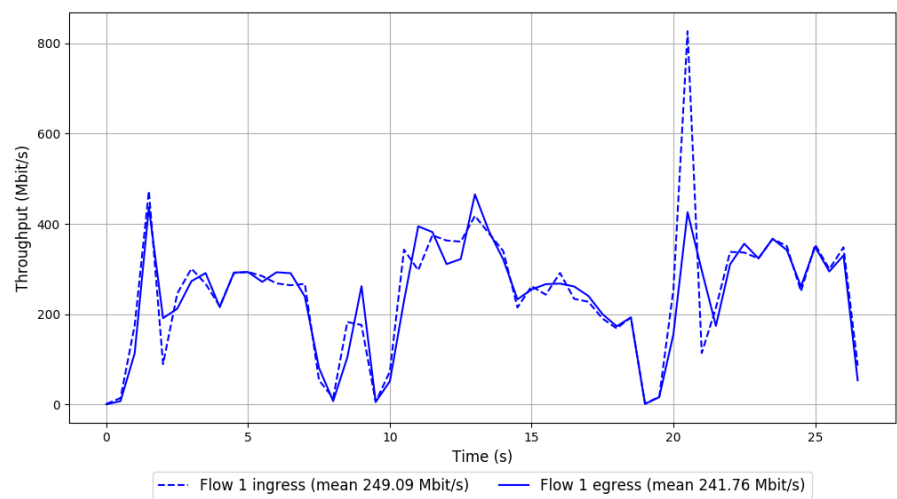
-- Flow 1:

Average throughput: 241.76 Mbit/s

95th percentile per-packet one-way delay: 152.419 ms

Loss rate: 3.38%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-02 11:07:54

End at: 2018-01-02 11:08:24

Below is generated by plot.py at 2018-01-02 14:00:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.06 Mbit/s

95th percentile per-packet one-way delay: 109.318 ms

Loss rate: 0.65%

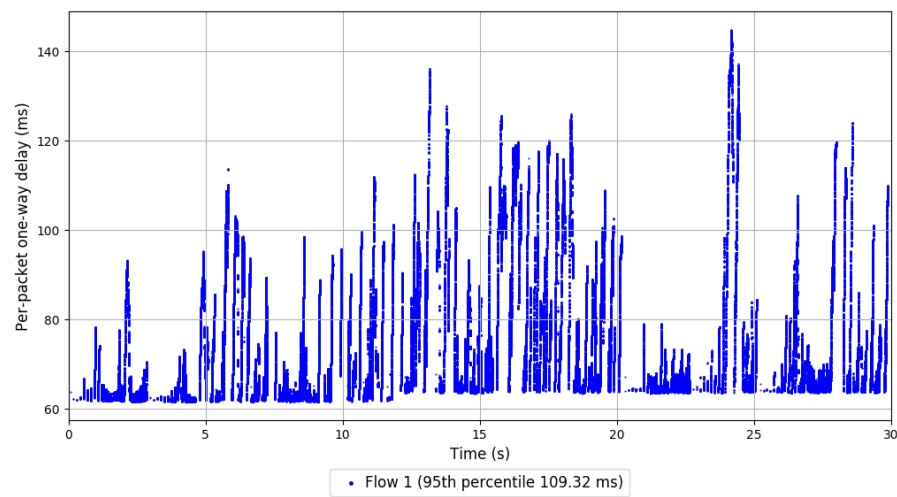
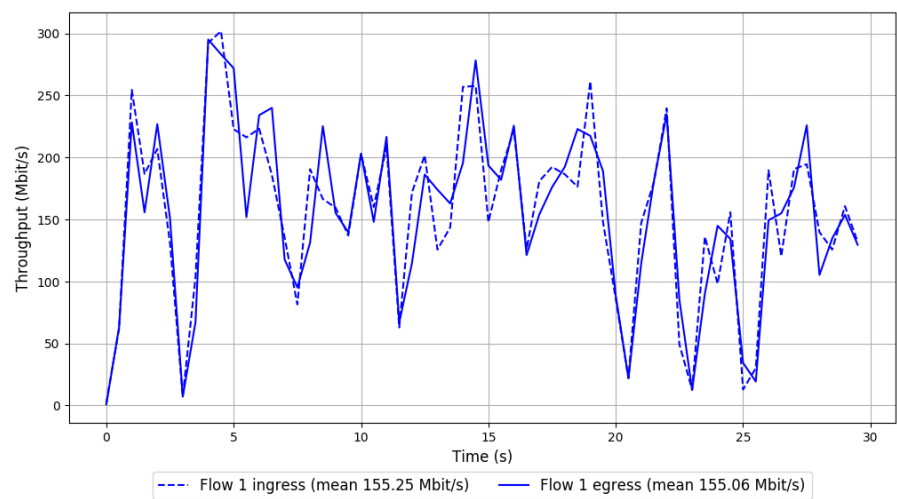
-- Flow 1:

Average throughput: 155.06 Mbit/s

95th percentile per-packet one-way delay: 109.318 ms

Loss rate: 0.65%

Run 8: Report of Verus — Data Link

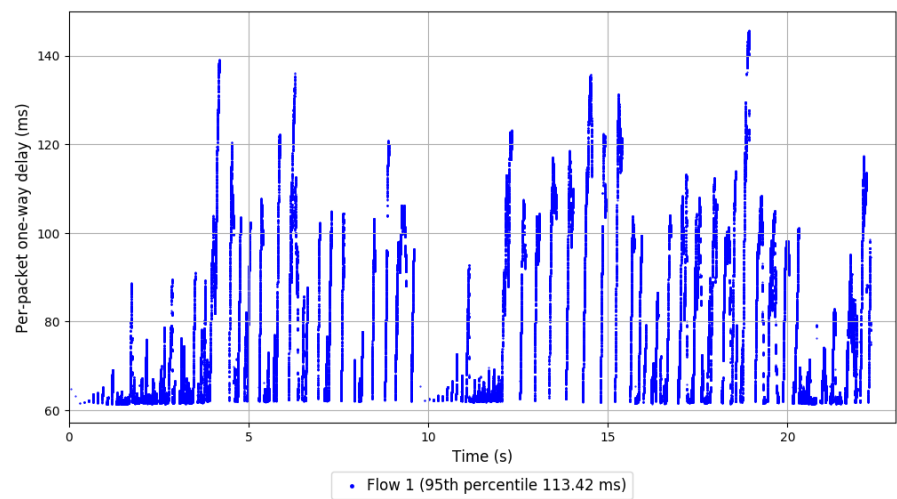
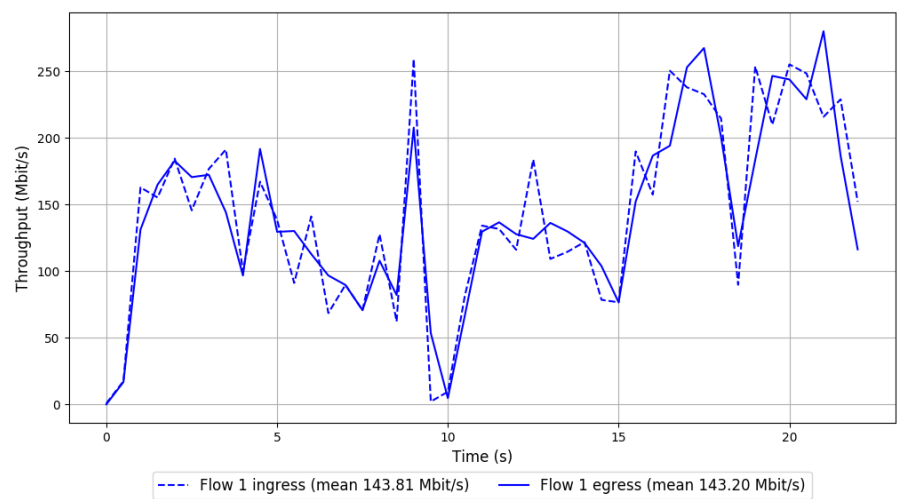


Run 9: Statistics of Verus

Start at: 2018-01-02 11:18:34

End at: 2018-01-02 11:19:04

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-02 11:29:16

End at: 2018-01-02 11:29:46

Below is generated by plot.py at 2018-01-02 14:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.15 Mbit/s

95th percentile per-packet one-way delay: 112.523 ms

Loss rate: 0.69%

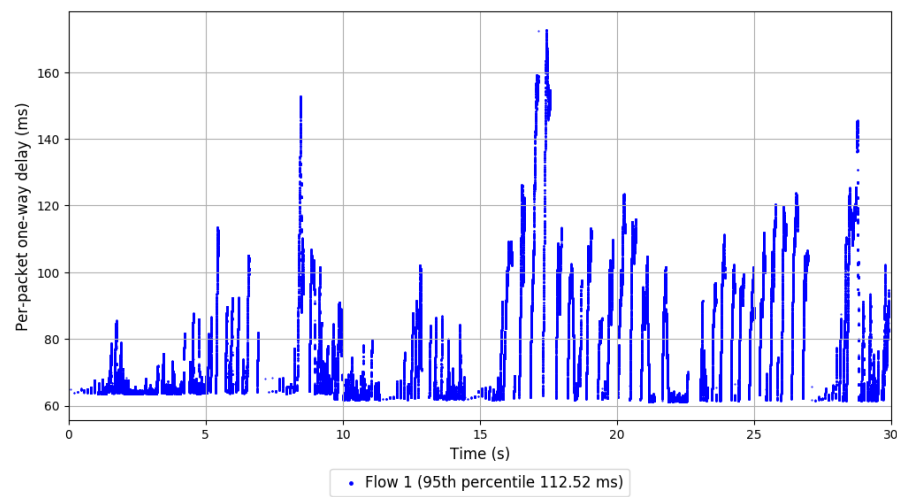
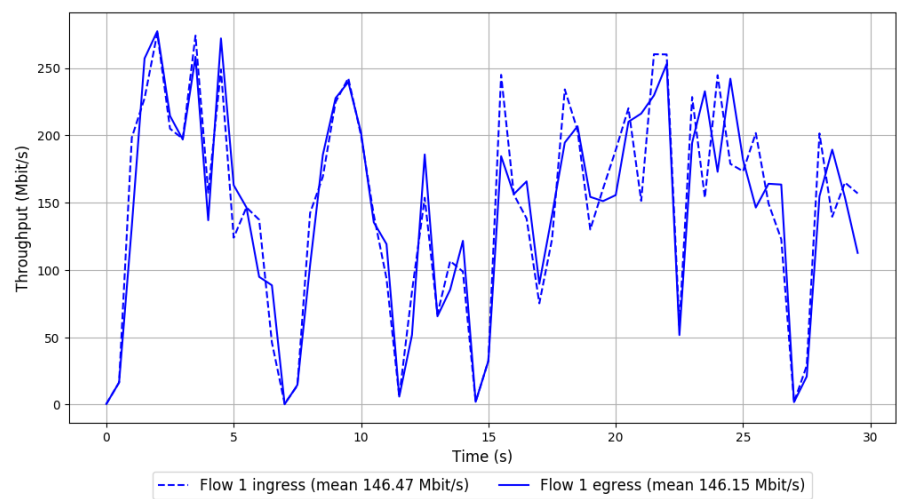
-- Flow 1:

Average throughput: 146.15 Mbit/s

95th percentile per-packet one-way delay: 112.523 ms

Loss rate: 0.69%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-02 09:46:39

End at: 2018-01-02 09:47:09

Below is generated by plot.py at 2018-01-02 14:00:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.69 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.01%

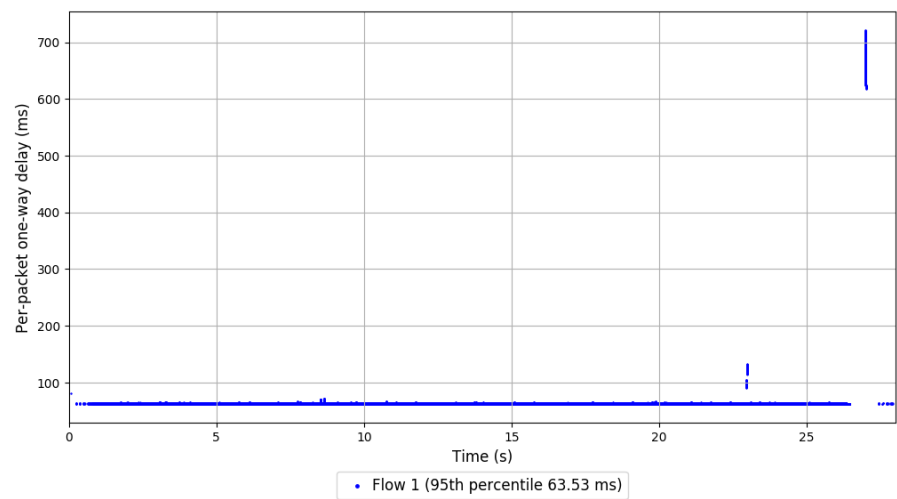
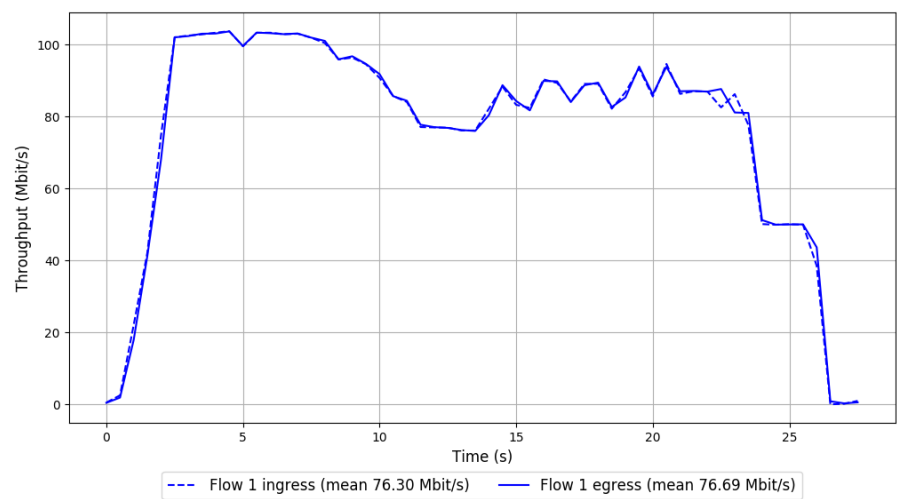
-- Flow 1:

Average throughput: 76.69 Mbit/s

95th percentile per-packet one-way delay: 63.533 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-02 09:58:15

End at: 2018-01-02 09:58:45

Below is generated by plot.py at 2018-01-02 14:00:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 63.850 ms

Loss rate: 0.81%

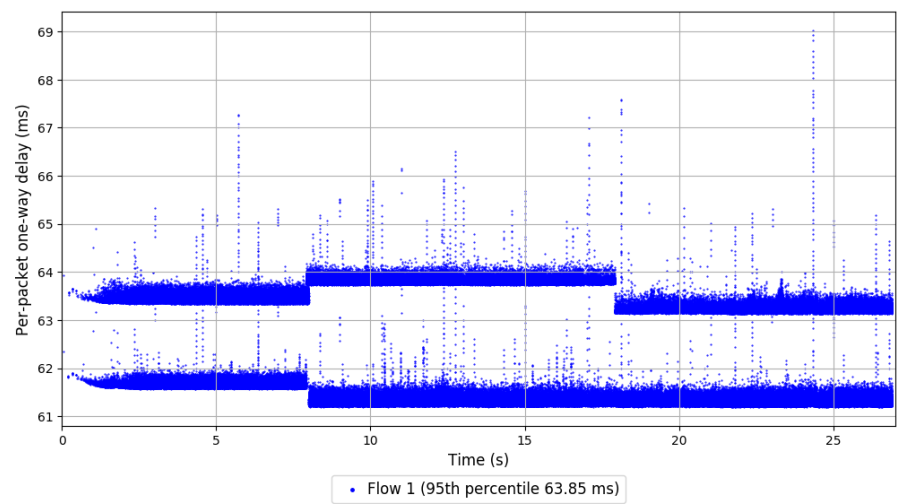
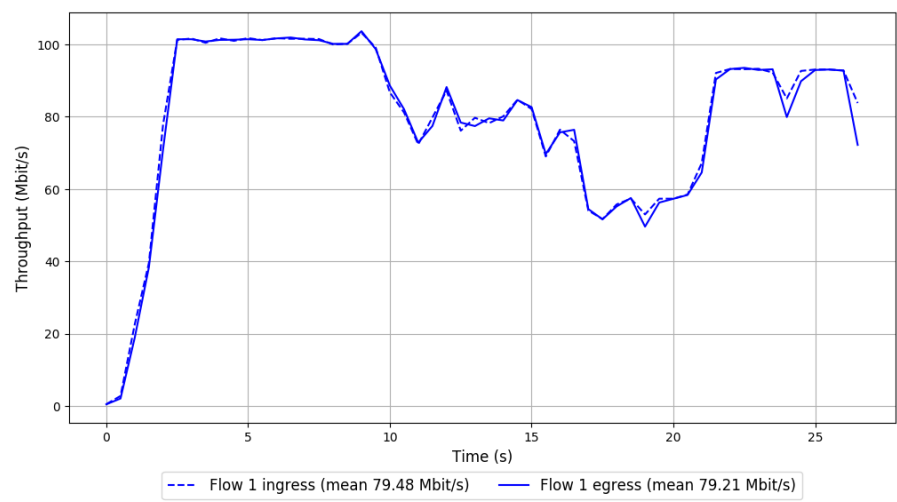
-- Flow 1:

Average throughput: 79.21 Mbit/s

95th percentile per-packet one-way delay: 63.850 ms

Loss rate: 0.81%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-02 10:09:48

End at: 2018-01-02 10:10:18

Below is generated by plot.py at 2018-01-02 14:00:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 0.62%

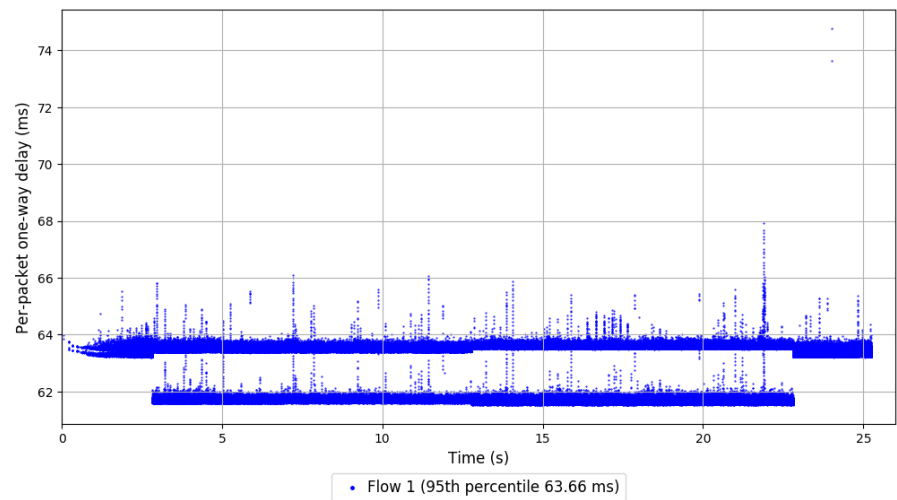
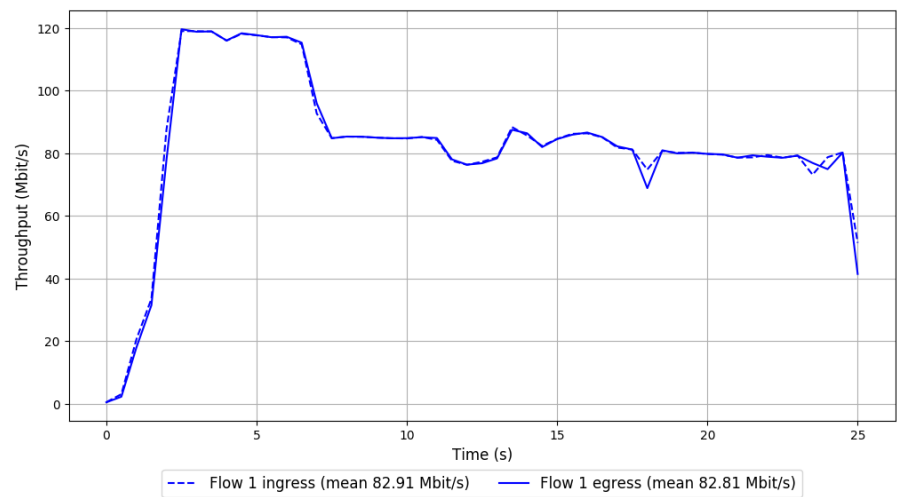
-- Flow 1:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 63.663 ms

Loss rate: 0.62%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-02 10:21:23

End at: 2018-01-02 10:21:53

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 63.865 ms

Loss rate: 0.69%

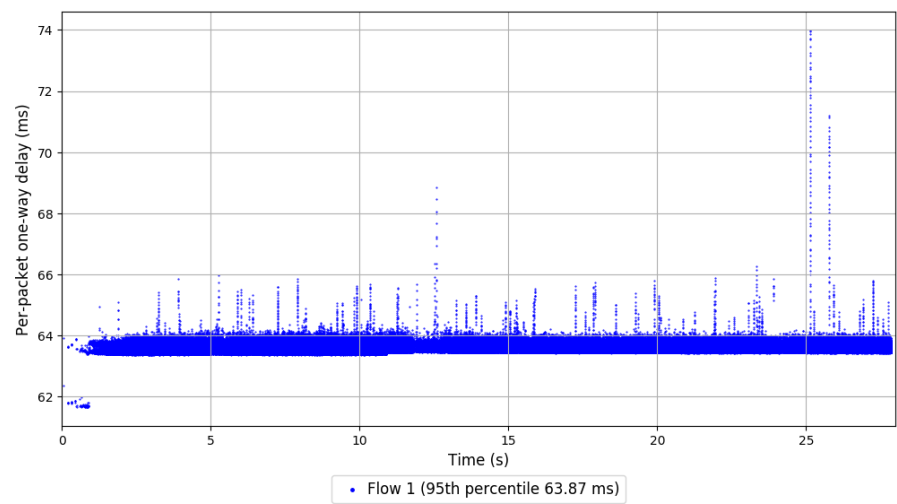
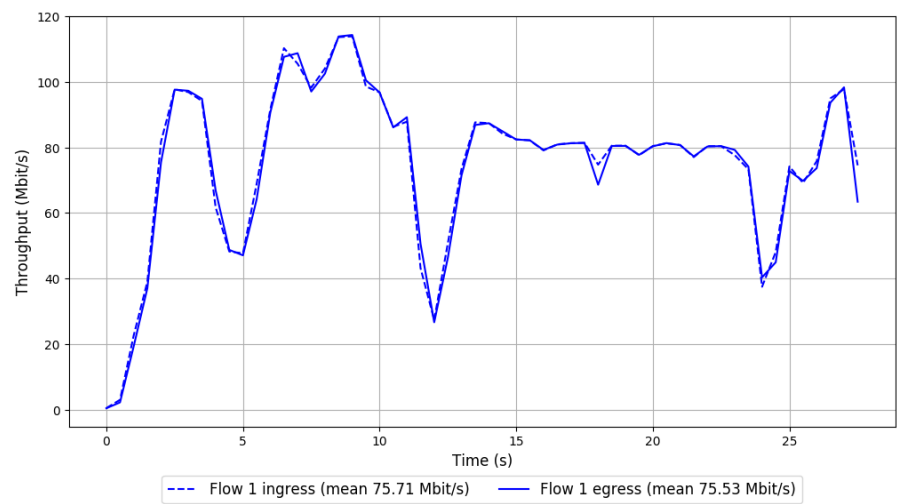
-- Flow 1:

Average throughput: 75.53 Mbit/s

95th percentile per-packet one-way delay: 63.865 ms

Loss rate: 0.69%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-02 10:33:12

End at: 2018-01-02 10:33:42

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 63.868 ms

Loss rate: 0.10%

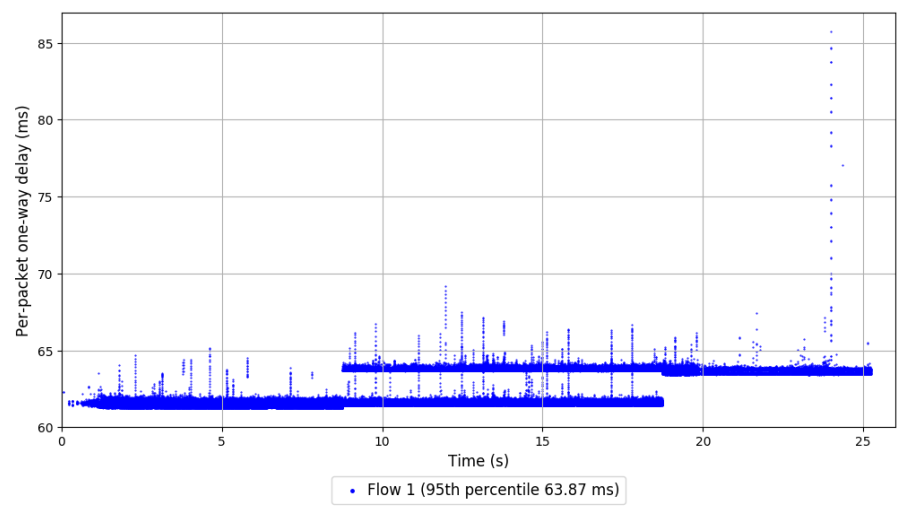
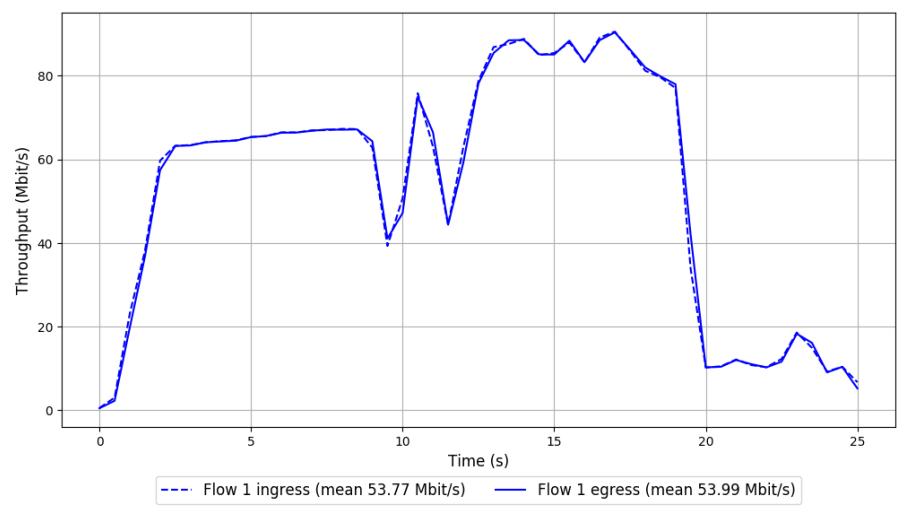
-- Flow 1:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 63.868 ms

Loss rate: 0.10%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-02 10:44:21

End at: 2018-01-02 10:44:51

Below is generated by plot.py at 2018-01-02 14:02:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.33 Mbit/s

95th percentile per-packet one-way delay: 63.921 ms

Loss rate: 0.43%

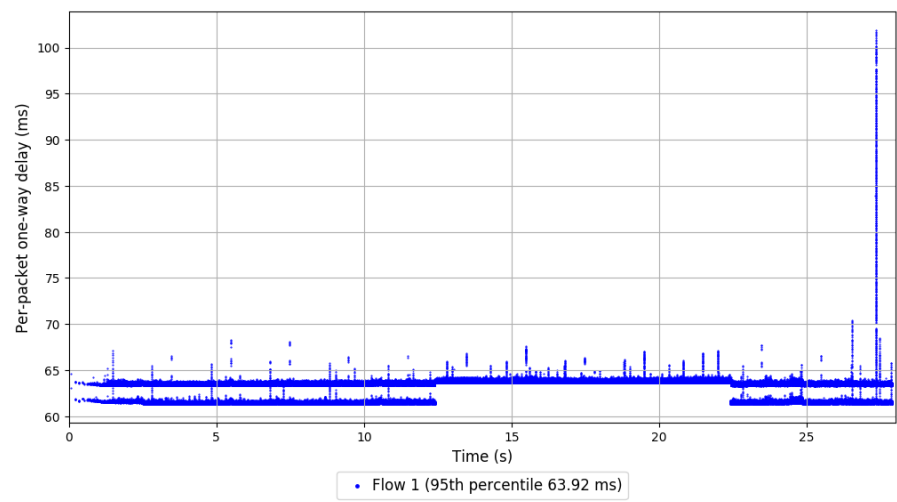
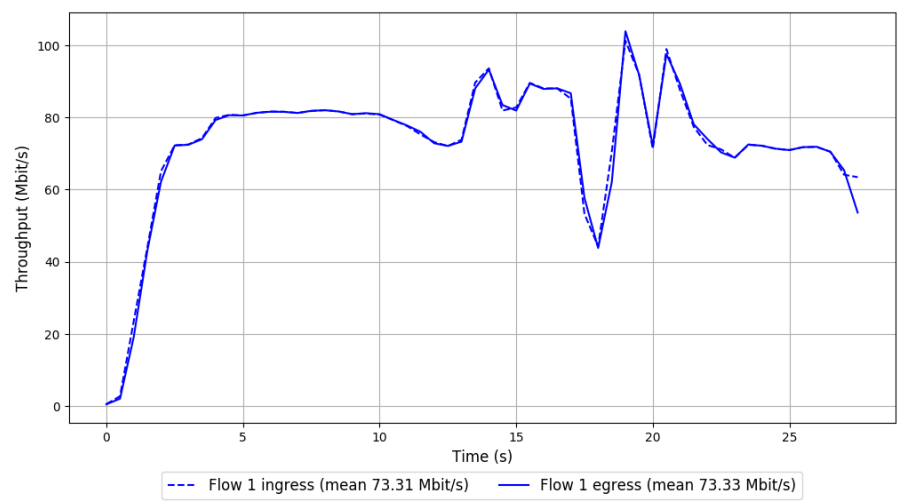
-- Flow 1:

Average throughput: 73.33 Mbit/s

95th percentile per-packet one-way delay: 63.921 ms

Loss rate: 0.43%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-02 10:55:17

End at: 2018-01-02 10:55:47

Below is generated by plot.py at 2018-01-02 14:02:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 64.006 ms

Loss rate: 0.08%

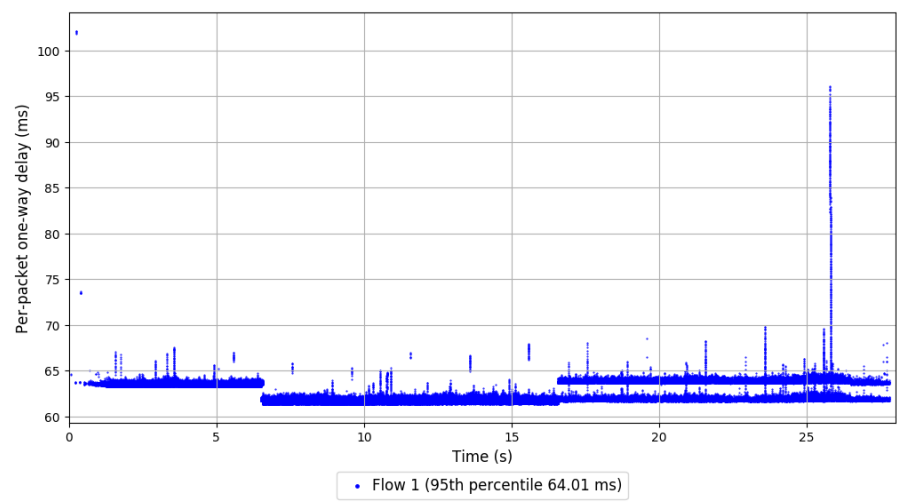
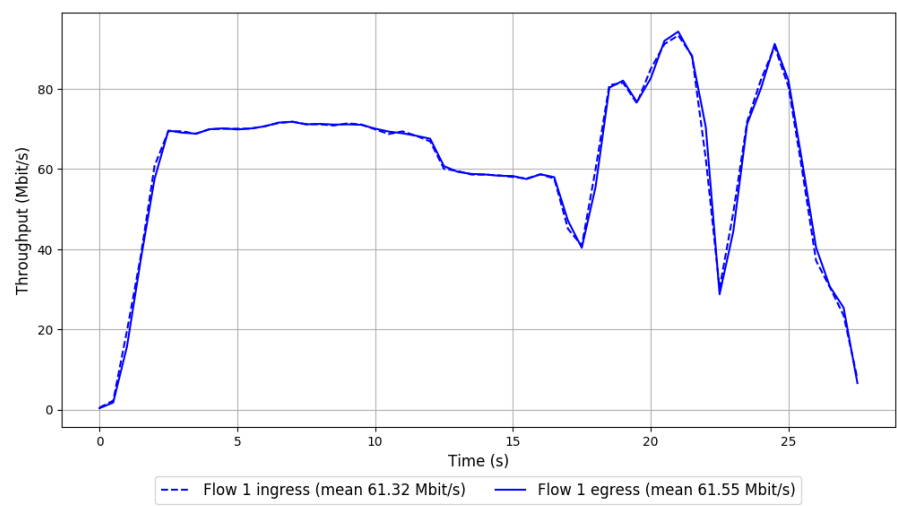
-- Flow 1:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 64.006 ms

Loss rate: 0.08%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-02 11:06:31

End at: 2018-01-02 11:07:01

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.20 Mbit/s

95th percentile per-packet one-way delay: 63.732 ms

Loss rate: 0.26%

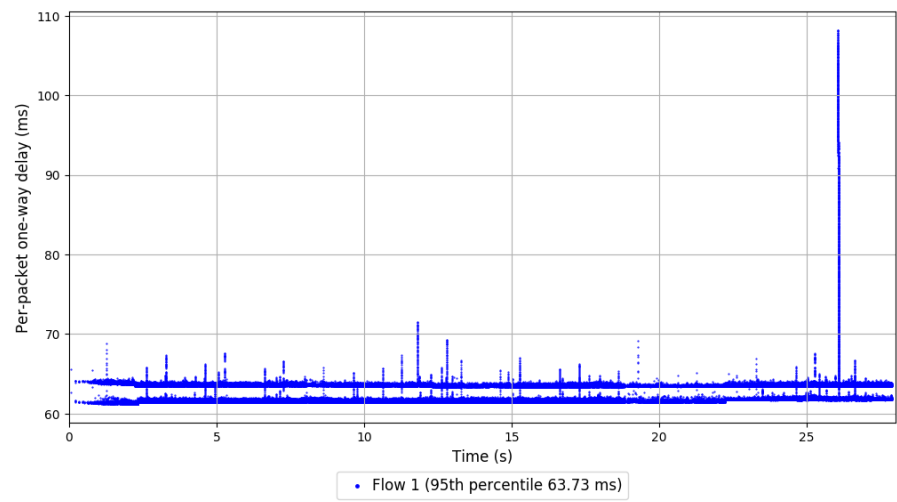
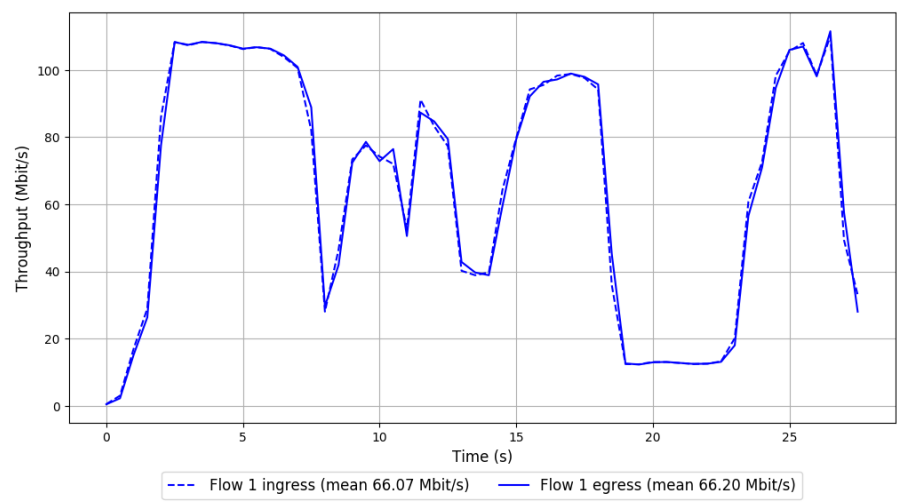
-- Flow 1:

Average throughput: 66.20 Mbit/s

95th percentile per-packet one-way delay: 63.732 ms

Loss rate: 0.26%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-02 11:17:08

End at: 2018-01-02 11:17:38

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.56 Mbit/s

95th percentile per-packet one-way delay: 64.109 ms

Loss rate: 0.21%

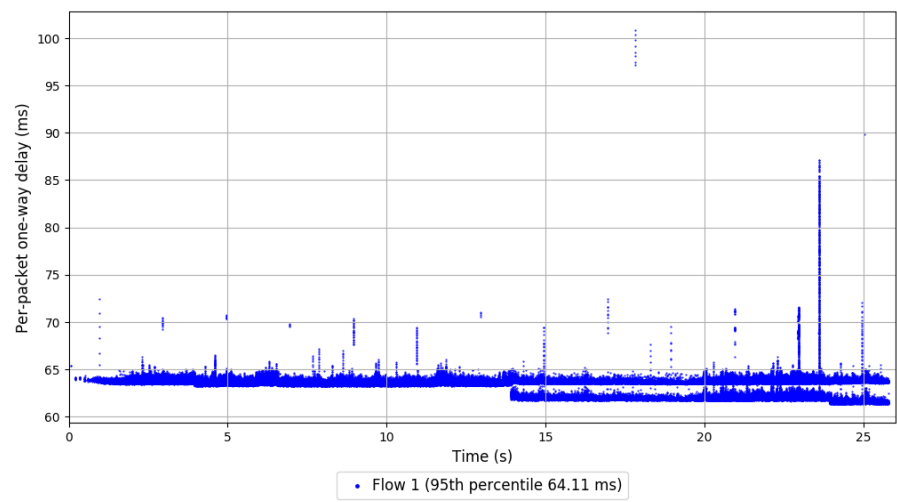
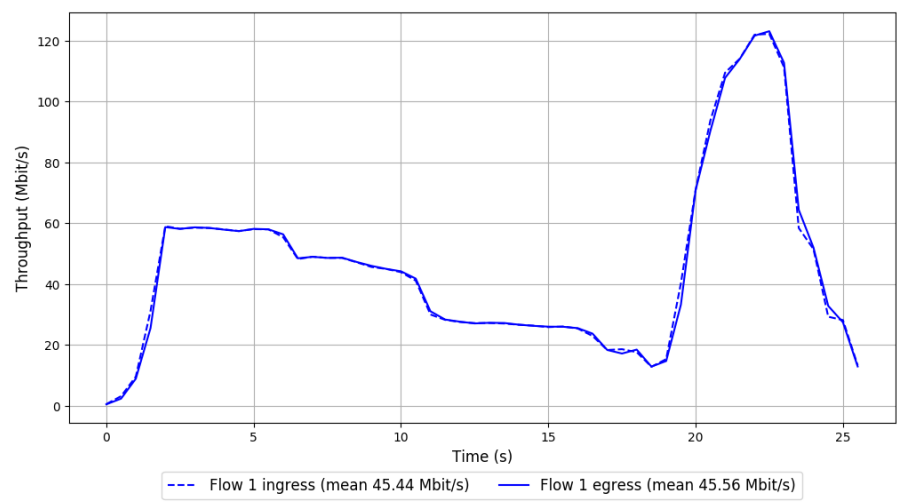
-- Flow 1:

Average throughput: 45.56 Mbit/s

95th percentile per-packet one-way delay: 64.109 ms

Loss rate: 0.21%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-02 11:27:48

End at: 2018-01-02 11:28:18

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.24%

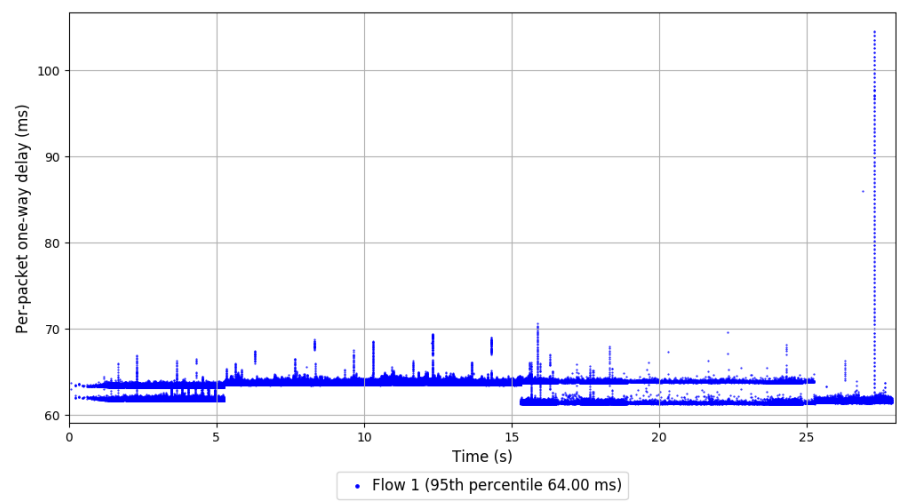
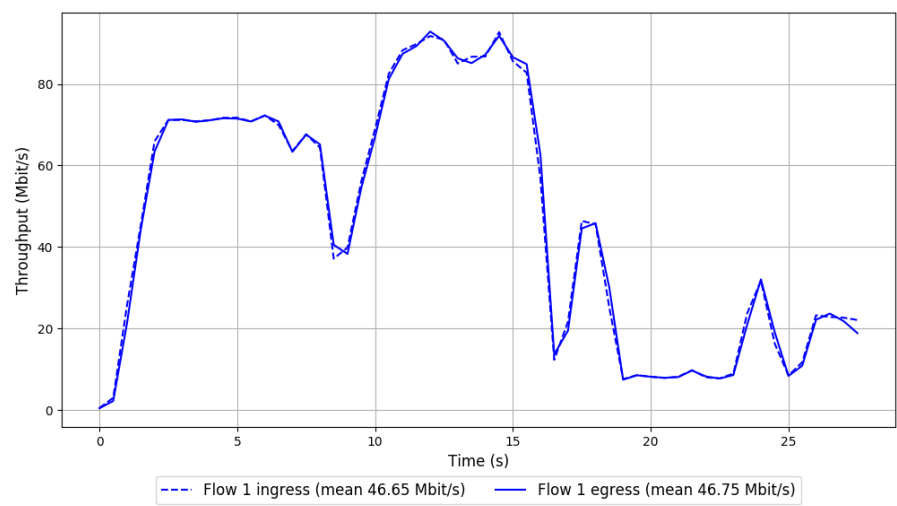
-- Flow 1:

Average throughput: 46.75 Mbit/s

95th percentile per-packet one-way delay: 63.998 ms

Loss rate: 0.24%

Run 10: Report of Copa — Data Link

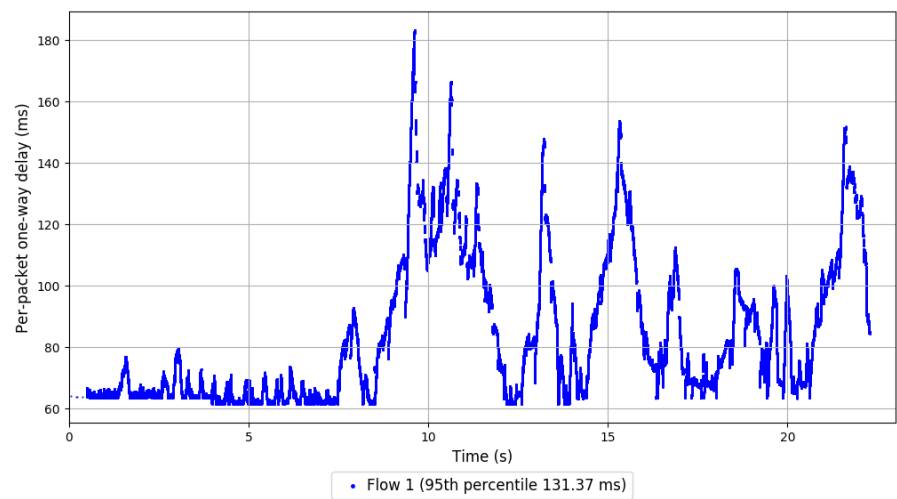
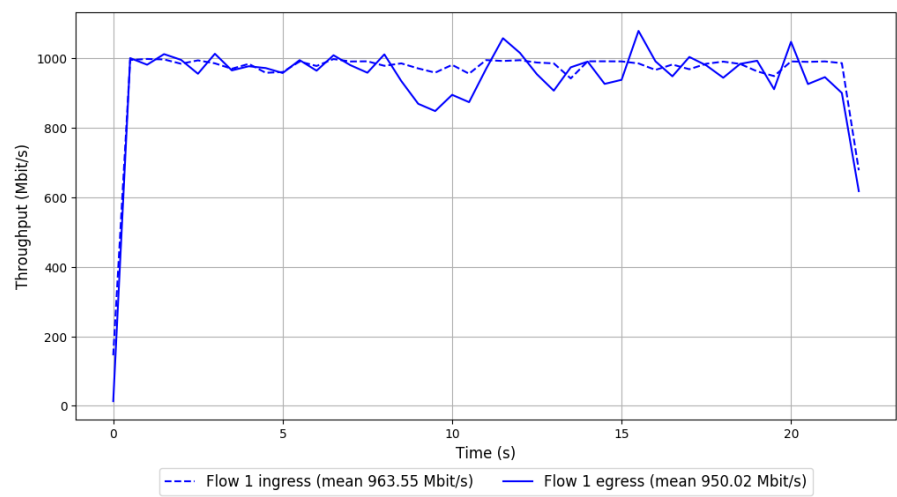


Run 1: Statistics of FillP

Start at: 2018-01-02 09:44:34

End at: 2018-01-02 09:45:04

Run 1: Report of FillP — Data Link

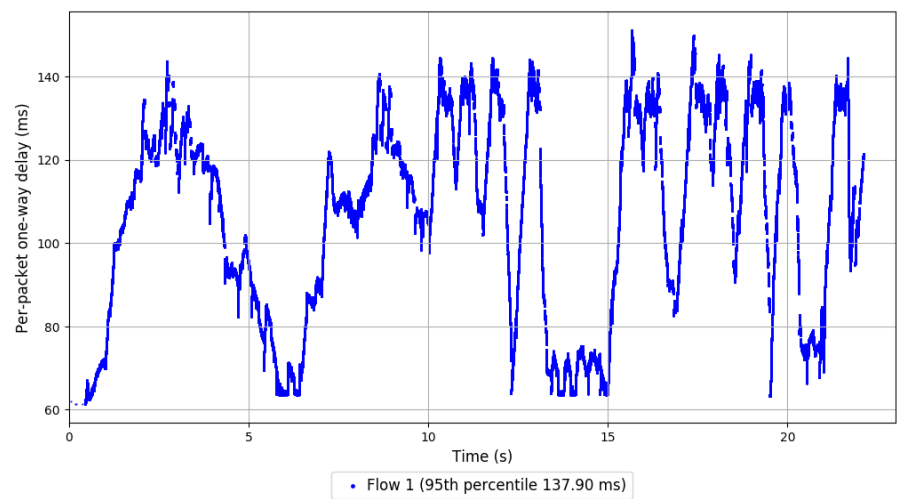
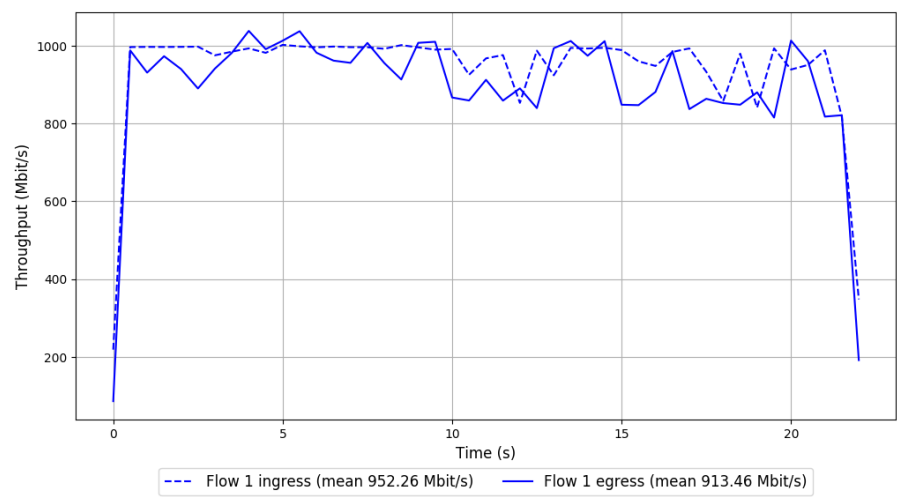


Run 2: Statistics of FillP

Start at: 2018-01-02 09:56:10

End at: 2018-01-02 09:56:40

Run 2: Report of FillP — Data Link

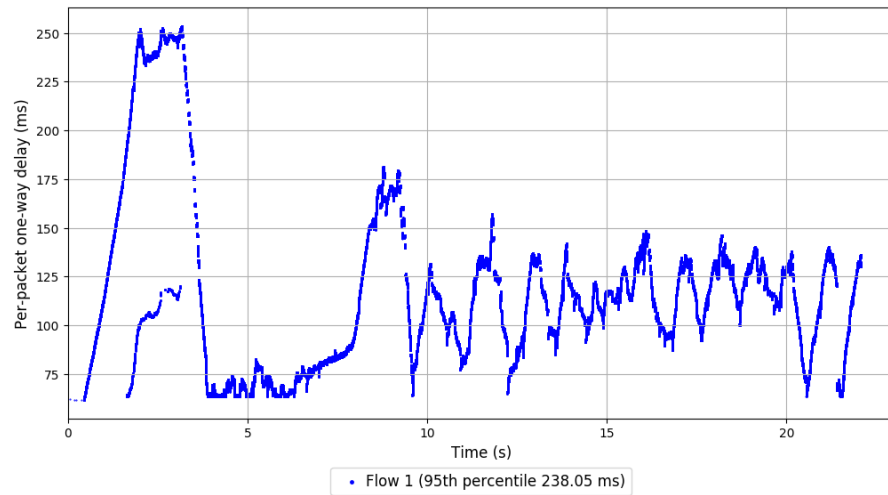
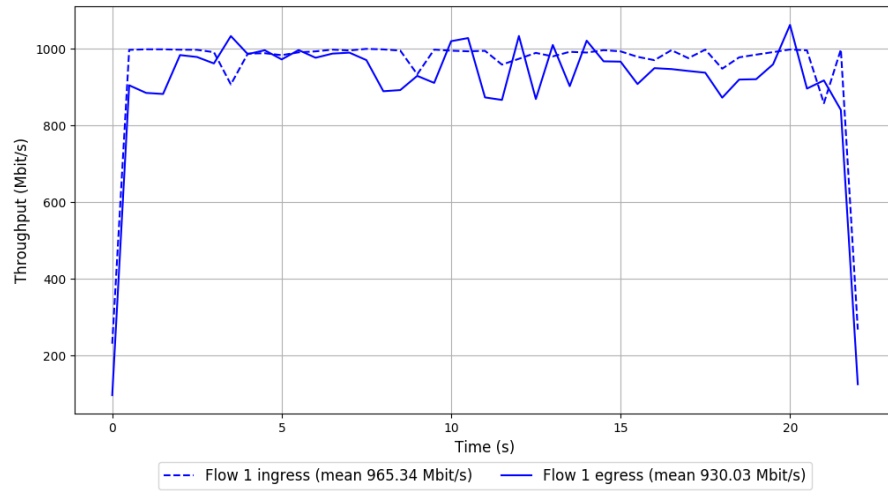


Run 3: Statistics of FillP

Start at: 2018-01-02 10:07:44

End at: 2018-01-02 10:08:14

Run 3: Report of FillP — Data Link

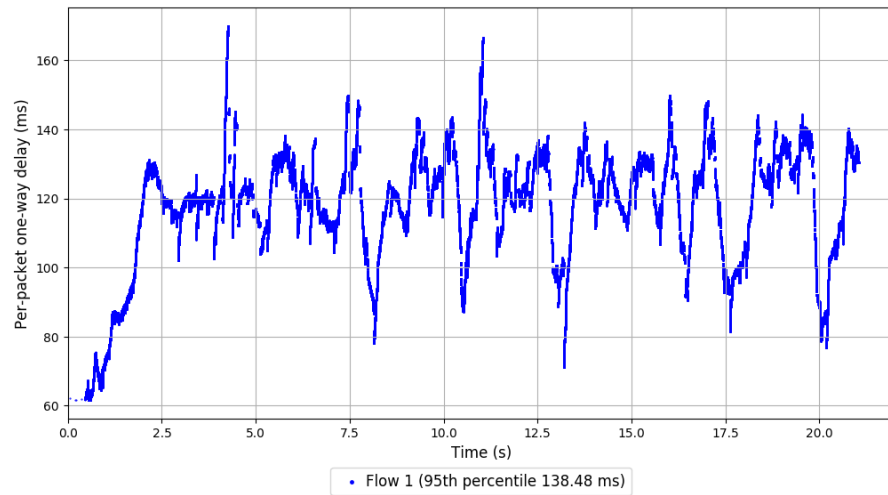
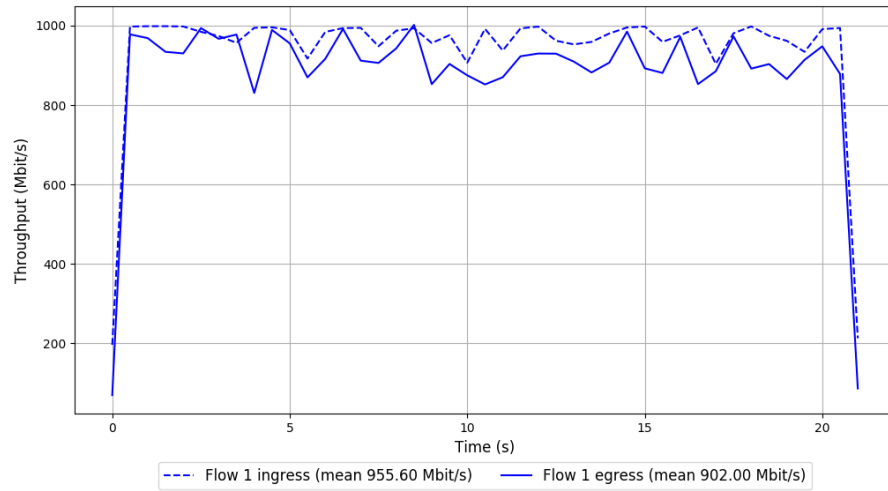


Run 4: Statistics of FillP

Start at: 2018-01-02 10:19:18

End at: 2018-01-02 10:19:48

Run 4: Report of FillP — Data Link

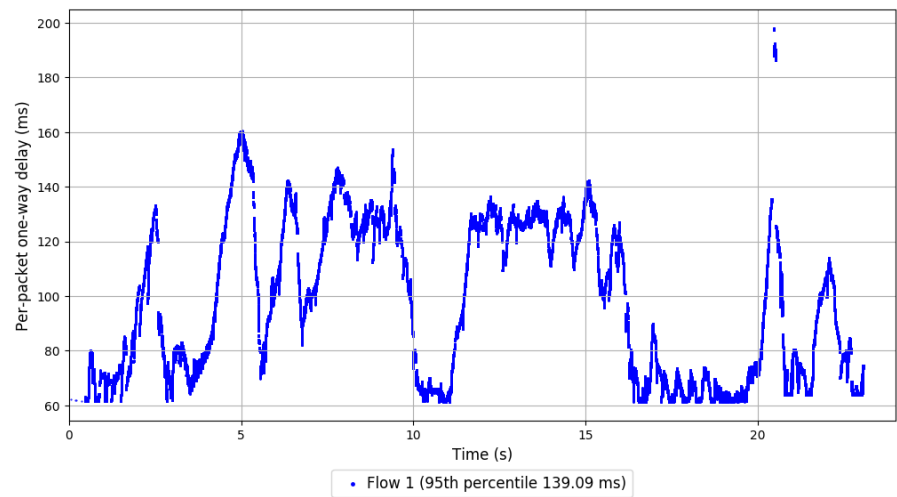
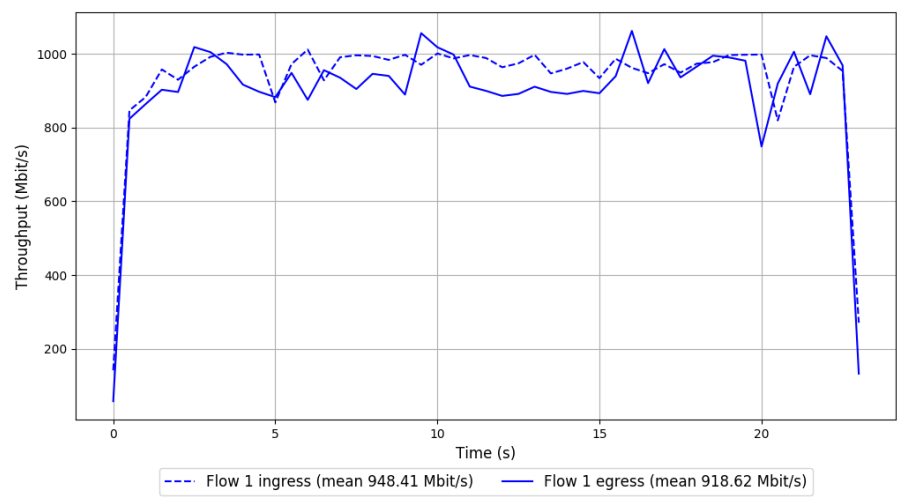


Run 5: Statistics of FillP

Start at: 2018-01-02 10:31:08

End at: 2018-01-02 10:31:38

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-02 10:42:36

End at: 2018-01-02 10:43:06

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.64 Mbit/s

95th percentile per-packet one-way delay: 129.413 ms

Loss rate: 0.87%

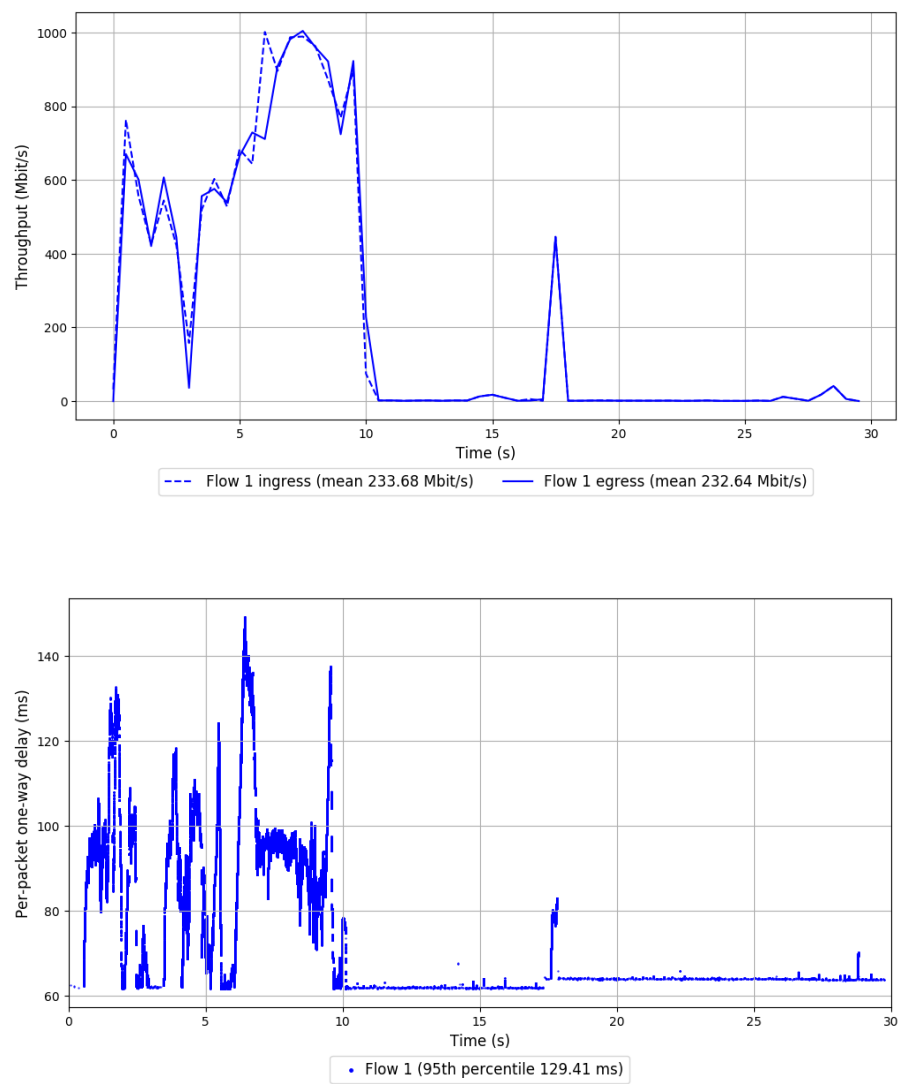
-- Flow 1:

Average throughput: 232.64 Mbit/s

95th percentile per-packet one-way delay: 129.413 ms

Loss rate: 0.87%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-02 10:53:41

End at: 2018-01-02 10:54:11

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.27 Mbit/s

95th percentile per-packet one-way delay: 130.053 ms

Loss rate: 0.00%

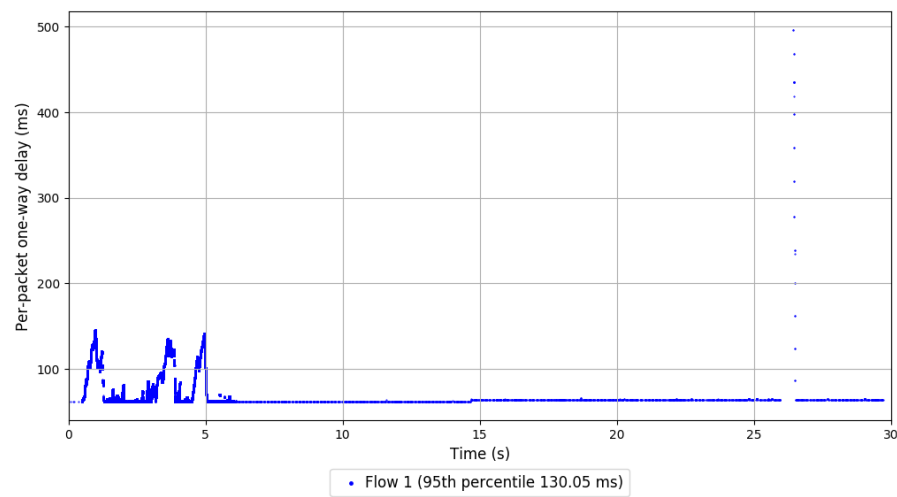
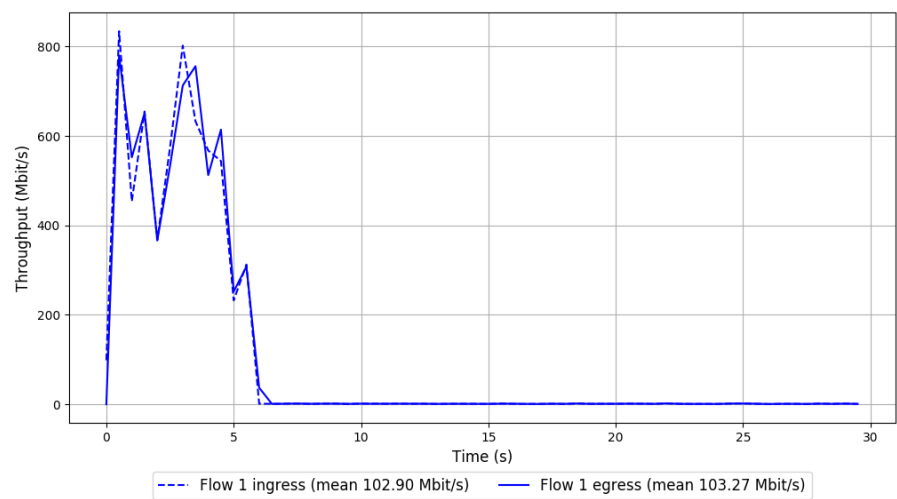
-- Flow 1:

Average throughput: 103.27 Mbit/s

95th percentile per-packet one-way delay: 130.053 ms

Loss rate: 0.00%

Run 7: Report of FillP — Data Link

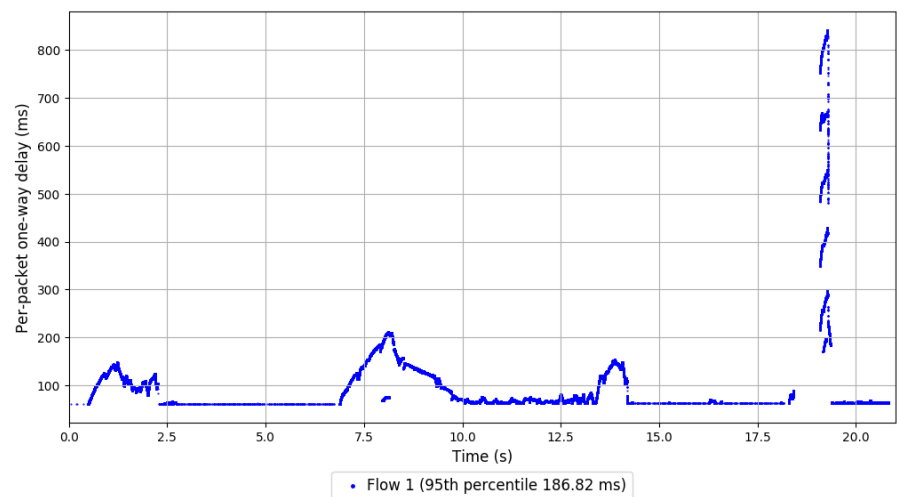
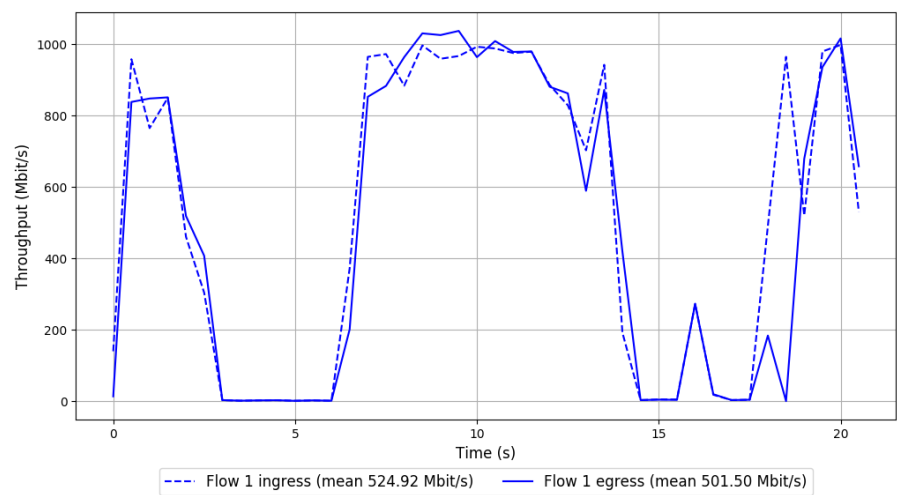


Run 8: Statistics of FillP

Start at: 2018-01-02 11:04:39

End at: 2018-01-02 11:05:09

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-02 11:15:36

End at: 2018-01-02 11:16:06

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 136.452 ms

Loss rate: 0.00%

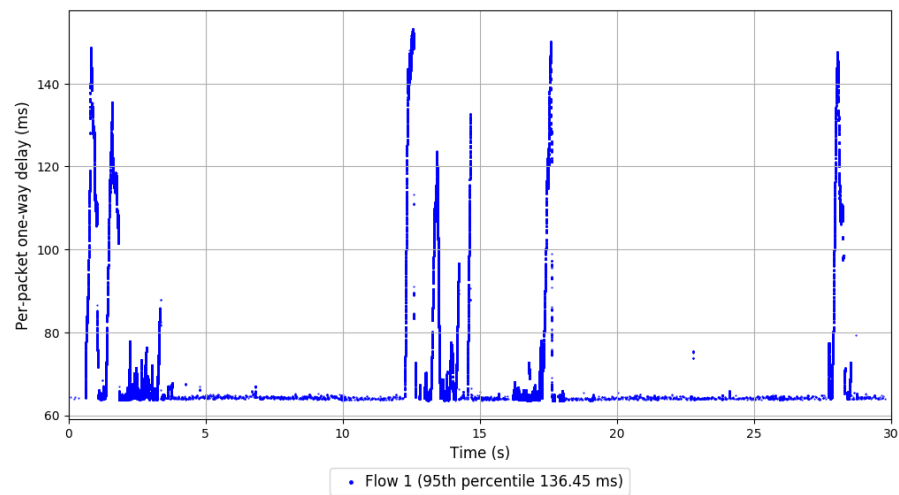
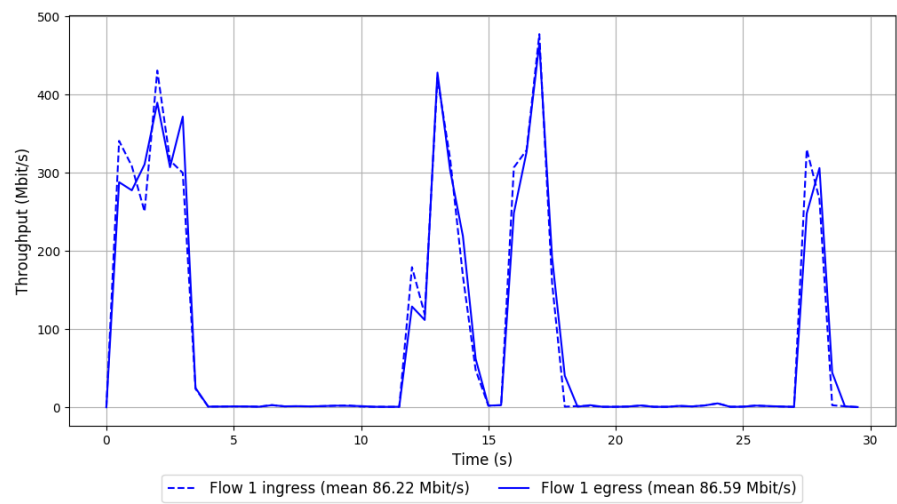
-- Flow 1:

Average throughput: 86.59 Mbit/s

95th percentile per-packet one-way delay: 136.452 ms

Loss rate: 0.00%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-02 11:26:08

End at: 2018-01-02 11:26:38

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.87 Mbit/s

95th percentile per-packet one-way delay: 89.368 ms

Loss rate: 0.01%

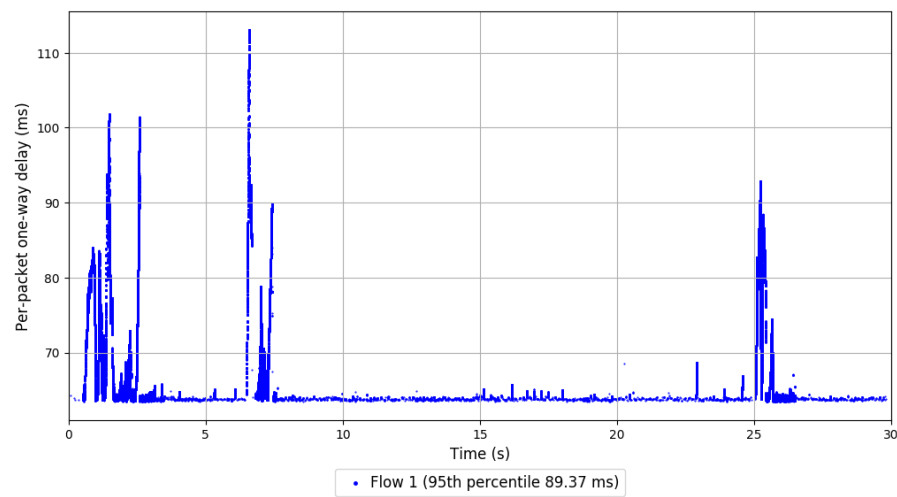
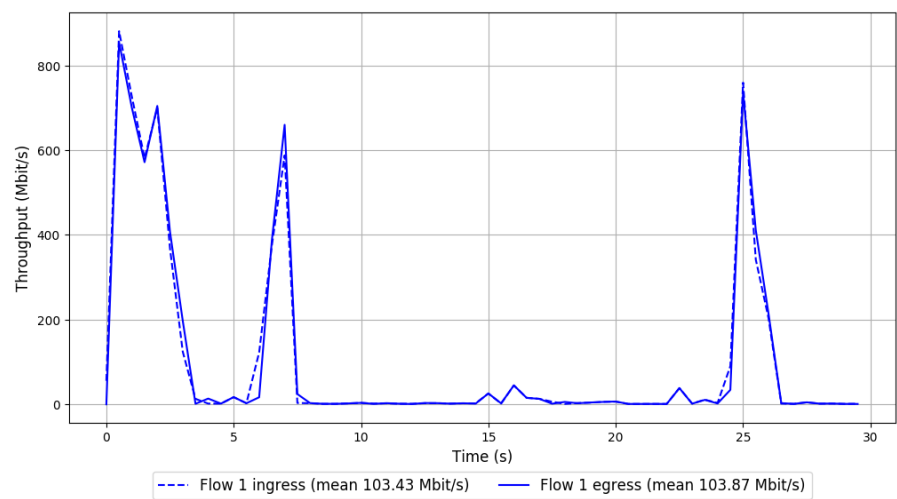
-- Flow 1:

Average throughput: 103.87 Mbit/s

95th percentile per-packet one-way delay: 89.368 ms

Loss rate: 0.01%

Run 10: Report of FillP — Data Link

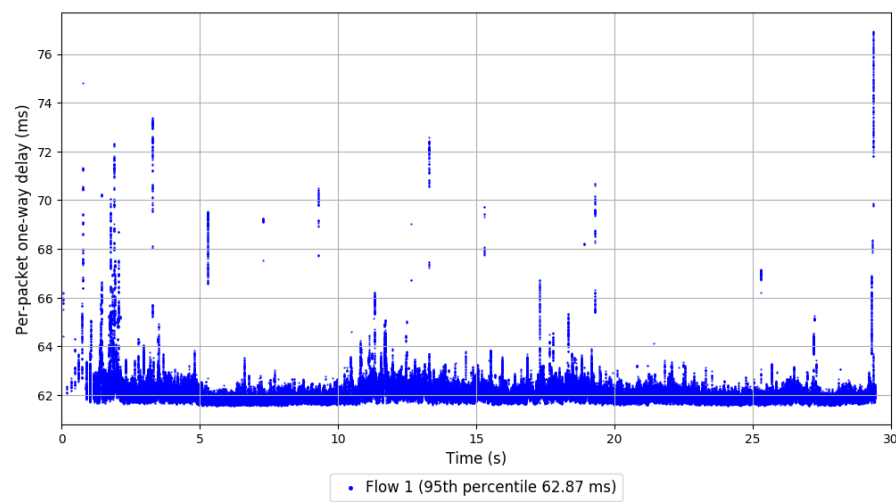
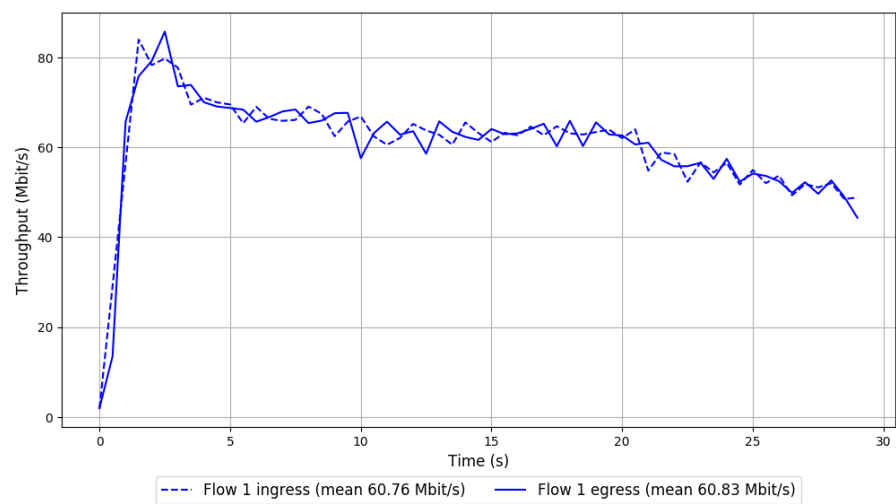


```
Run 1: Statistics of Indigo

Start at: 2018-01-02 09:39:47
End at: 2018-01-02 09:40:17

# Below is generated by plot.py at 2018-01-02 14:14:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.83 Mbit/s
95th percentile per-packet one-way delay: 62.869 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 60.83 Mbit/s
95th percentile per-packet one-way delay: 62.869 ms
Loss rate: 0.33%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-01-02 09:51:11

End at: 2018-01-02 09:51:41

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.27 Mbit/s

95th percentile per-packet one-way delay: 63.616 ms

Loss rate: 0.25%

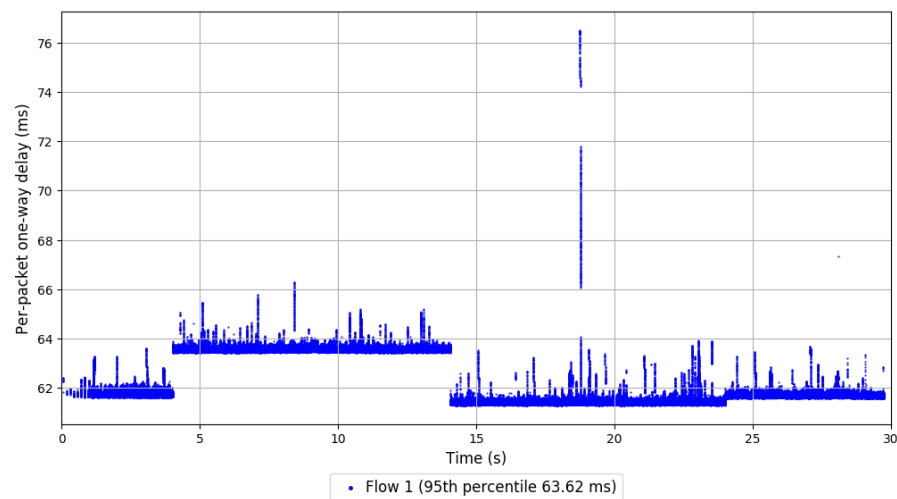
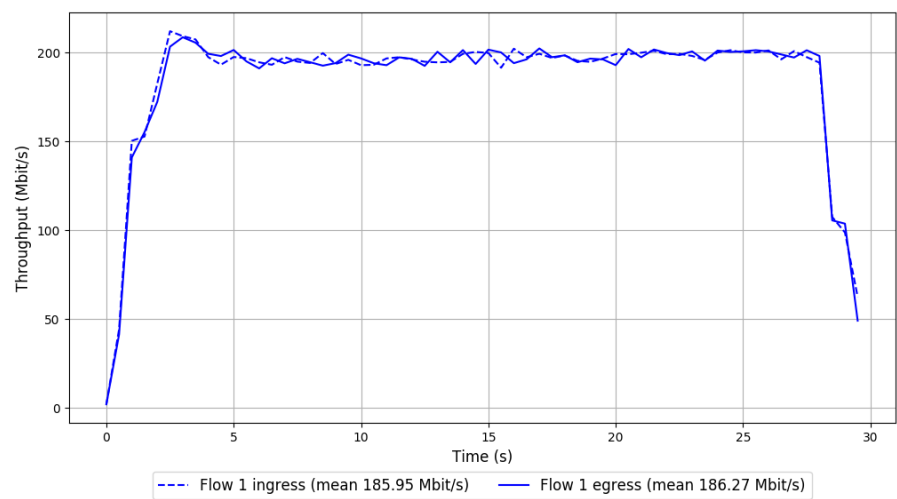
-- Flow 1:

Average throughput: 186.27 Mbit/s

95th percentile per-packet one-way delay: 63.616 ms

Loss rate: 0.25%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-01-02 10:02:44

End at: 2018-01-02 10:03:14

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.29 Mbit/s

95th percentile per-packet one-way delay: 63.412 ms

Loss rate: 0.50%

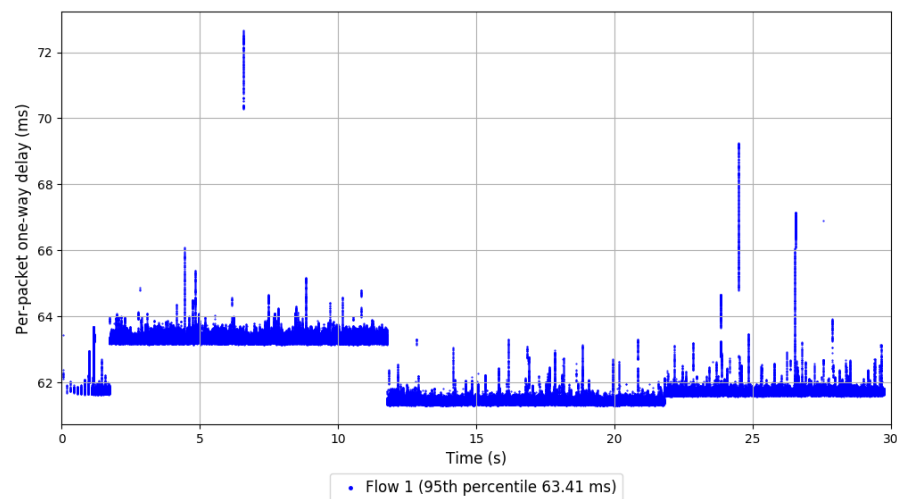
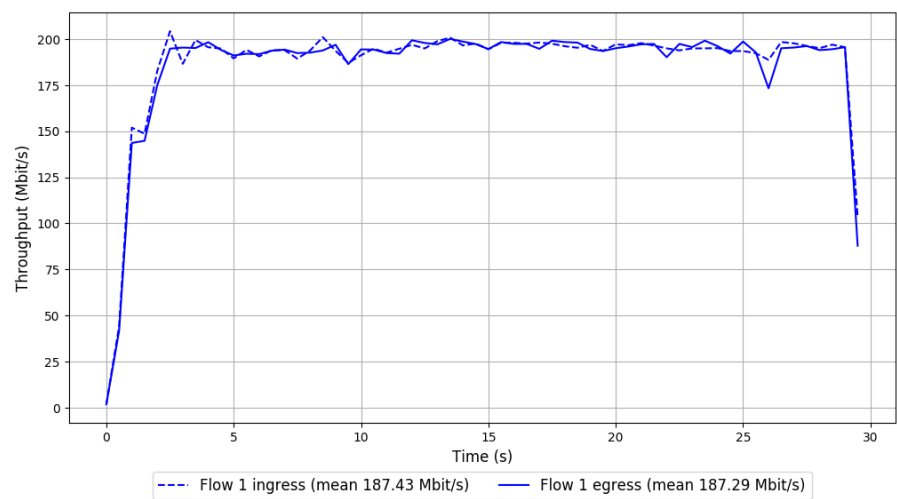
-- Flow 1:

Average throughput: 187.29 Mbit/s

95th percentile per-packet one-way delay: 63.412 ms

Loss rate: 0.50%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-01-02 10:14:16

End at: 2018-01-02 10:14:46

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.41 Mbit/s

95th percentile per-packet one-way delay: 63.709 ms

Loss rate: 0.55%

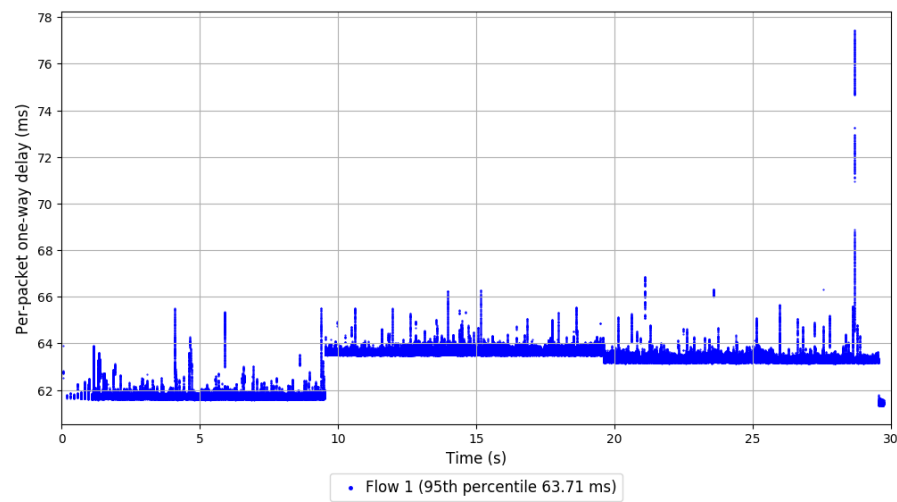
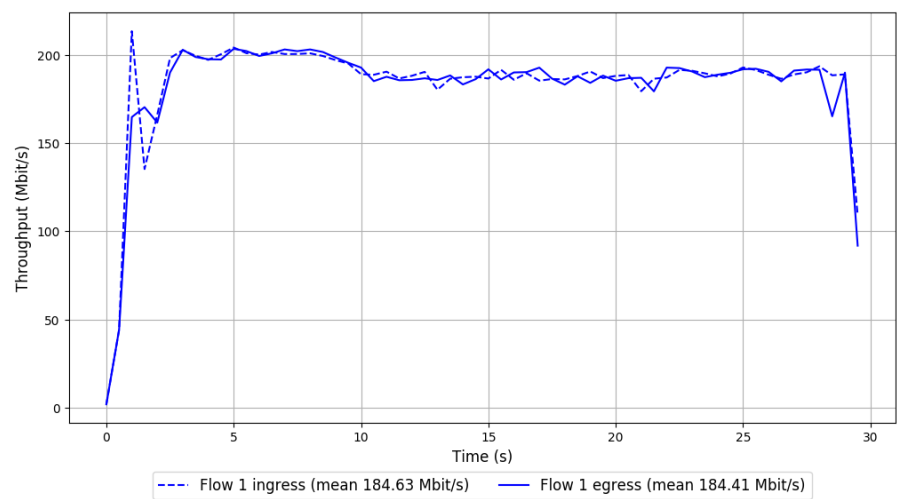
-- Flow 1:

Average throughput: 184.41 Mbit/s

95th percentile per-packet one-way delay: 63.709 ms

Loss rate: 0.55%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-01-02 10:26:08

End at: 2018-01-02 10:26:38

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.24 Mbit/s

95th percentile per-packet one-way delay: 61.661 ms

Loss rate: 0.45%

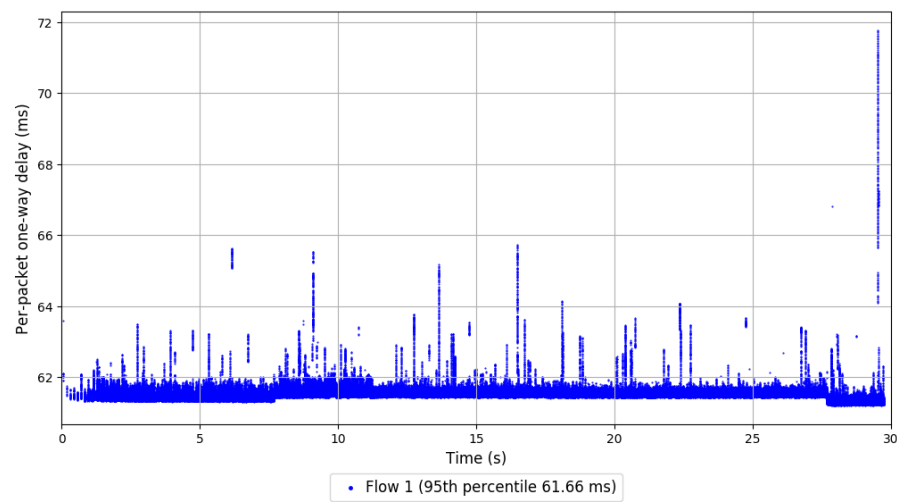
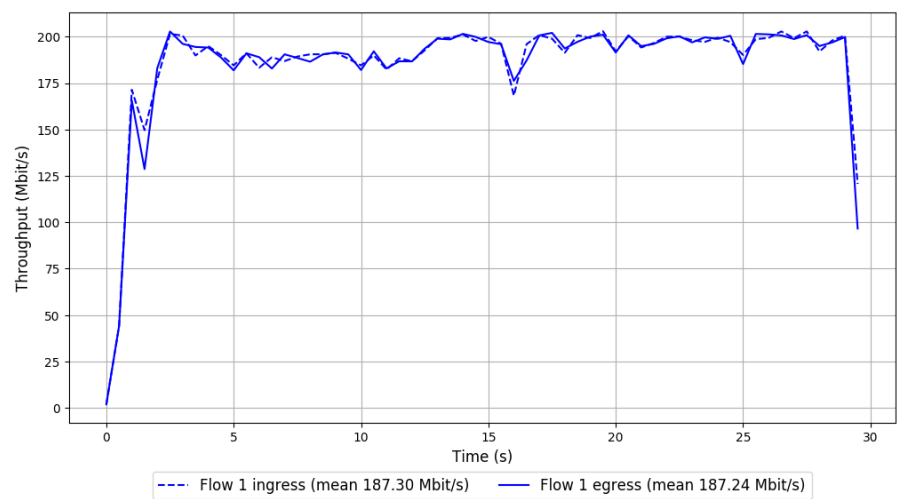
-- Flow 1:

Average throughput: 187.24 Mbit/s

95th percentile per-packet one-way delay: 61.661 ms

Loss rate: 0.45%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-01-02 10:37:44

End at: 2018-01-02 10:38:14

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.88 Mbit/s

95th percentile per-packet one-way delay: 64.158 ms

Loss rate: 0.46%

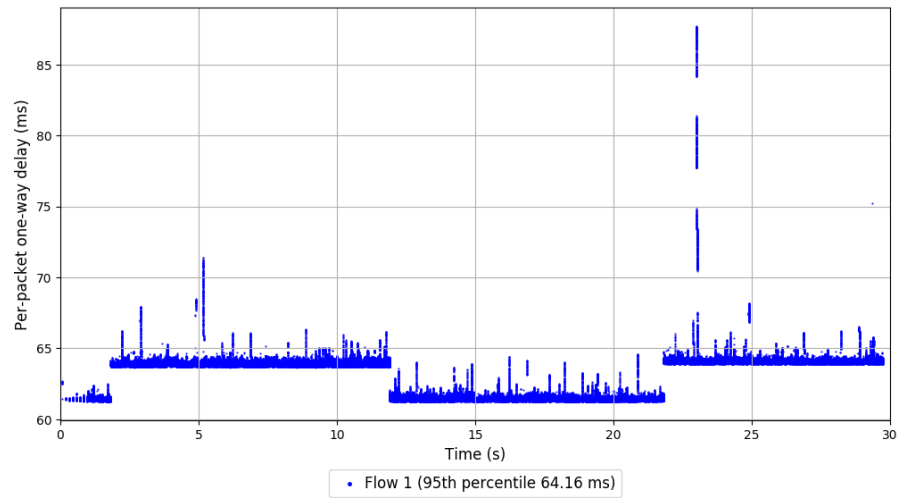
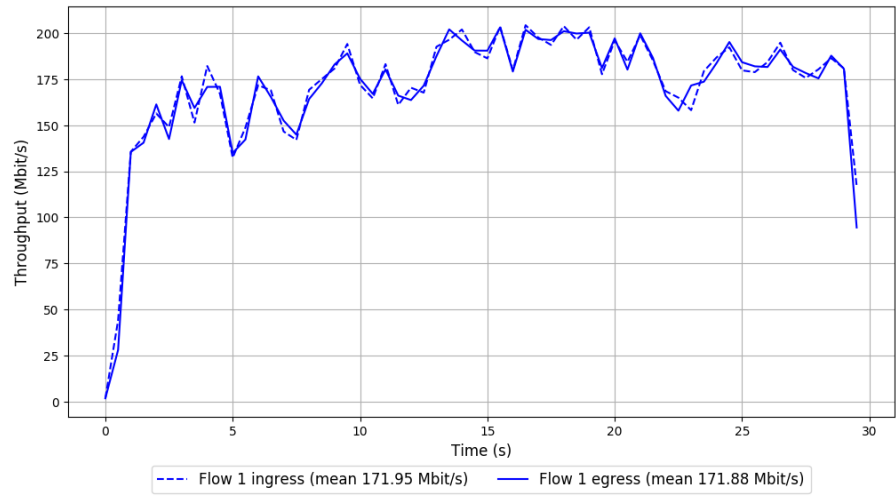
-- Flow 1:

Average throughput: 171.88 Mbit/s

95th percentile per-packet one-way delay: 64.158 ms

Loss rate: 0.46%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-01-02 10:48:49

End at: 2018-01-02 10:49:19

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.15 Mbit/s

95th percentile per-packet one-way delay: 64.103 ms

Loss rate: 0.31%

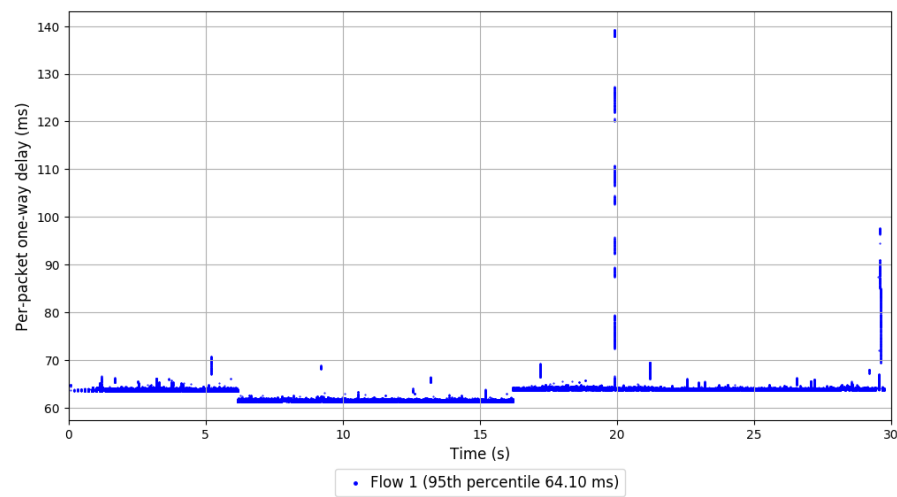
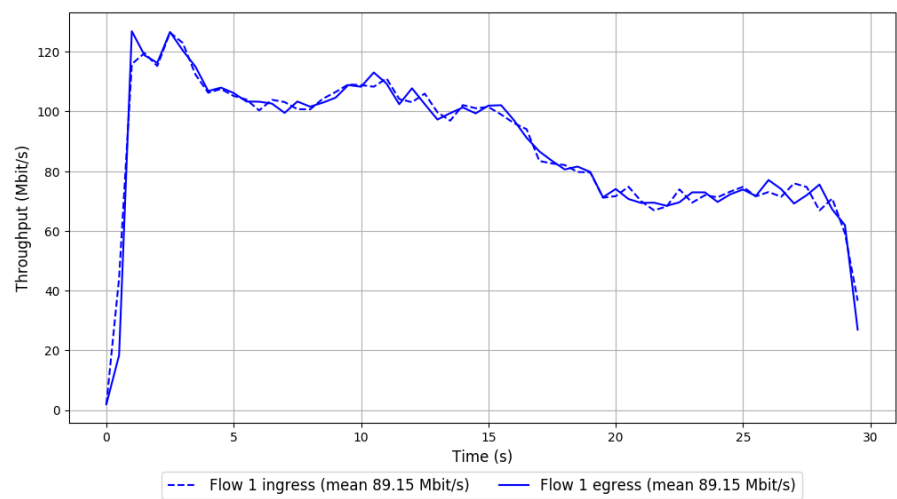
-- Flow 1:

Average throughput: 89.15 Mbit/s

95th percentile per-packet one-way delay: 64.103 ms

Loss rate: 0.31%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-01-02 10:59:48

End at: 2018-01-02 11:00:18

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.47 Mbit/s

95th percentile per-packet one-way delay: 64.460 ms

Loss rate: 0.42%

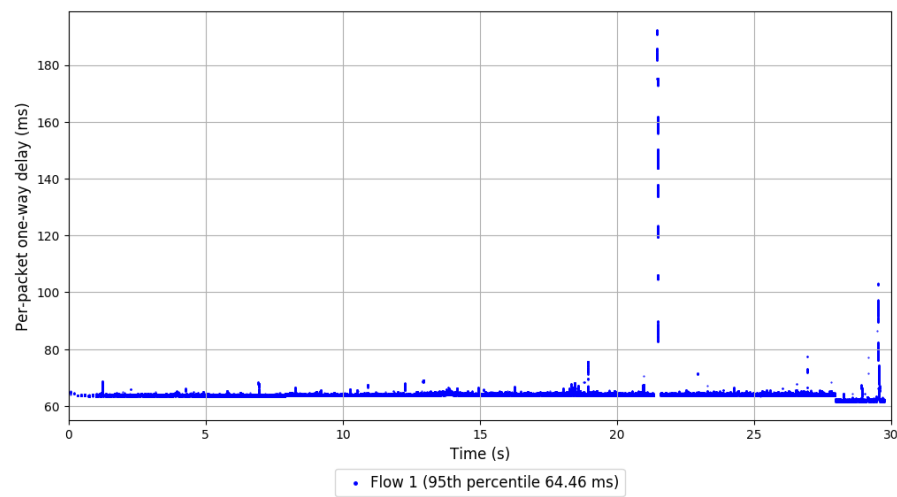
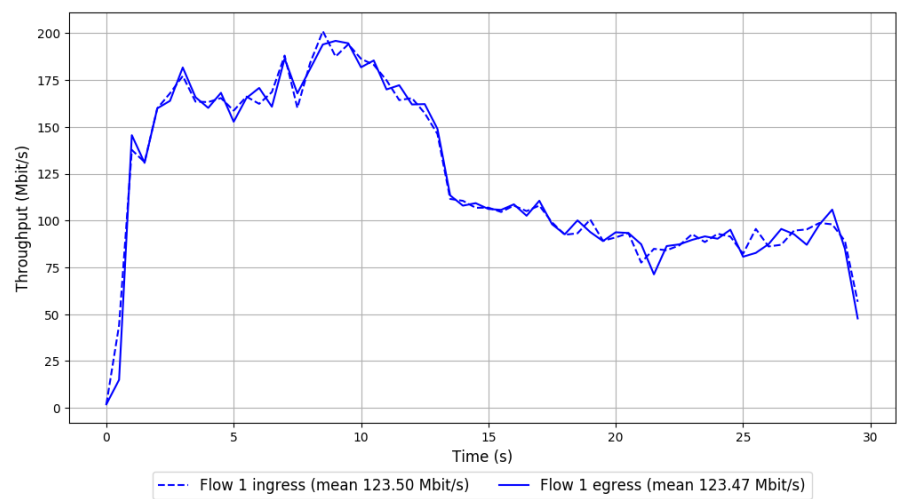
-- Flow 1:

Average throughput: 123.47 Mbit/s

95th percentile per-packet one-way delay: 64.460 ms

Loss rate: 0.42%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-01-02 11:10:52

End at: 2018-01-02 11:11:22

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 64.236 ms

Loss rate: 0.53%

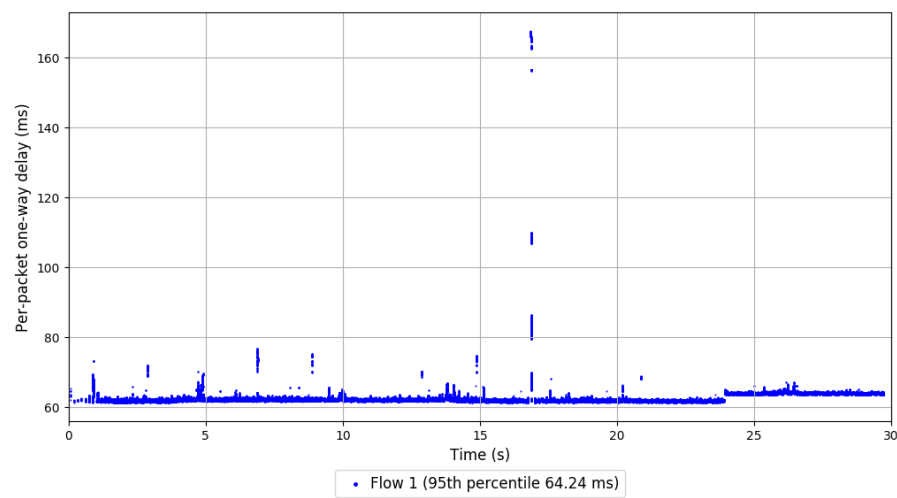
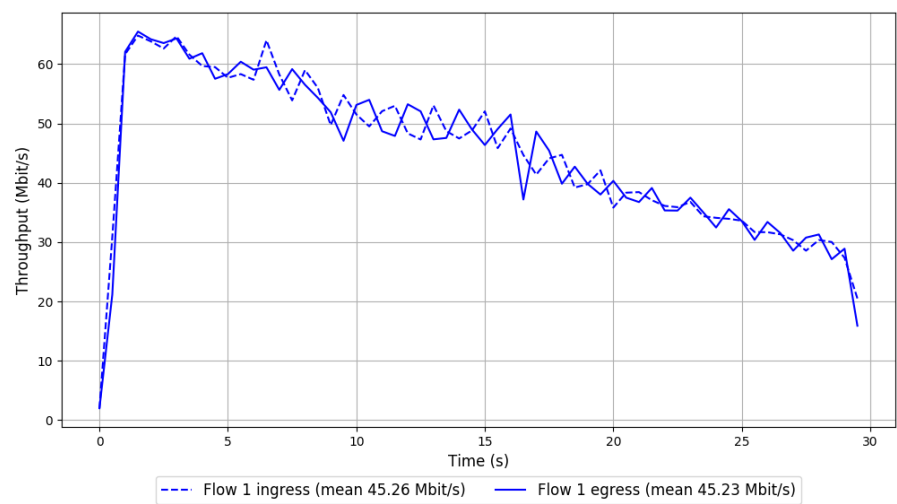
-- Flow 1:

Average throughput: 45.23 Mbit/s

95th percentile per-packet one-way delay: 64.236 ms

Loss rate: 0.53%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-01-02 11:21:23

End at: 2018-01-02 11:21:53

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.66 Mbit/s

95th percentile per-packet one-way delay: 64.105 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 60.66 Mbit/s

95th percentile per-packet one-way delay: 64.105 ms

Loss rate: 0.79%

Run 10: Report of Indigo — Data Link

