

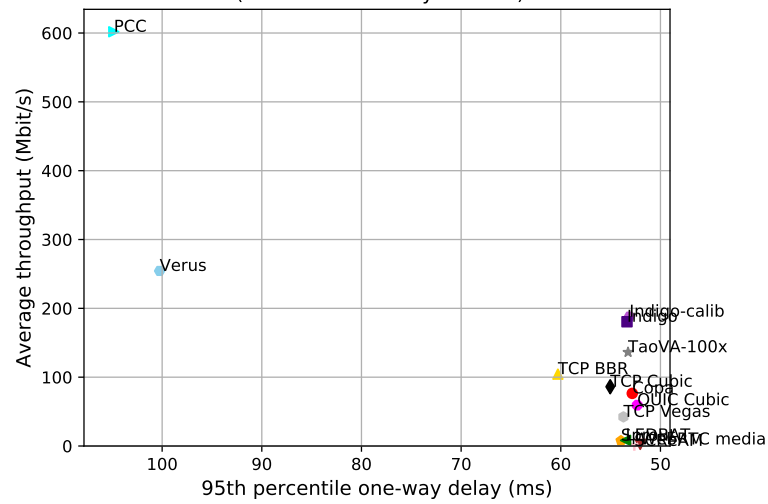
Pantheon Report

Generated at 2017-11-30 15:11:14 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

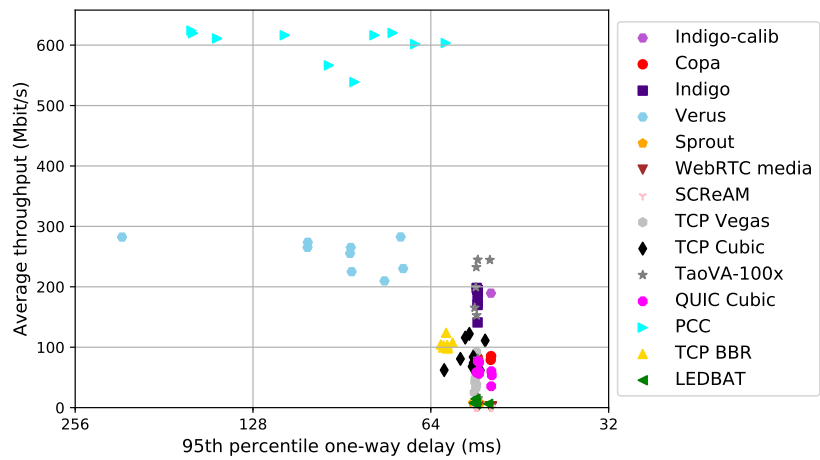
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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 Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



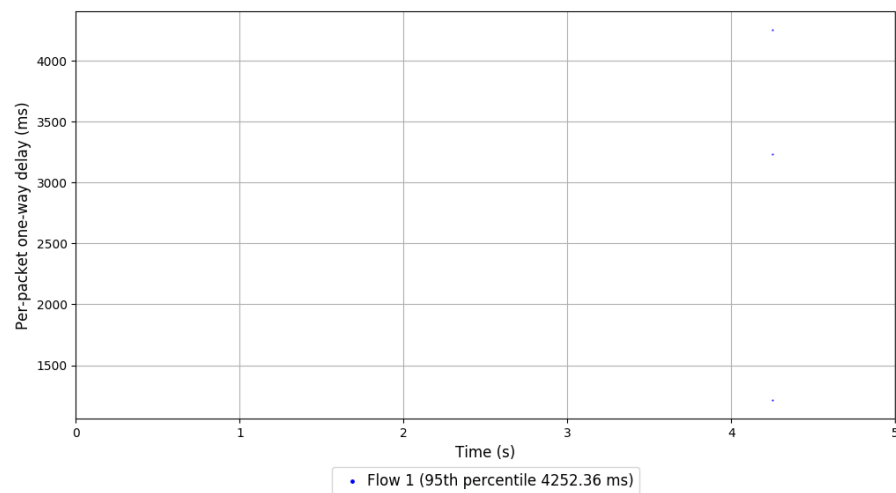
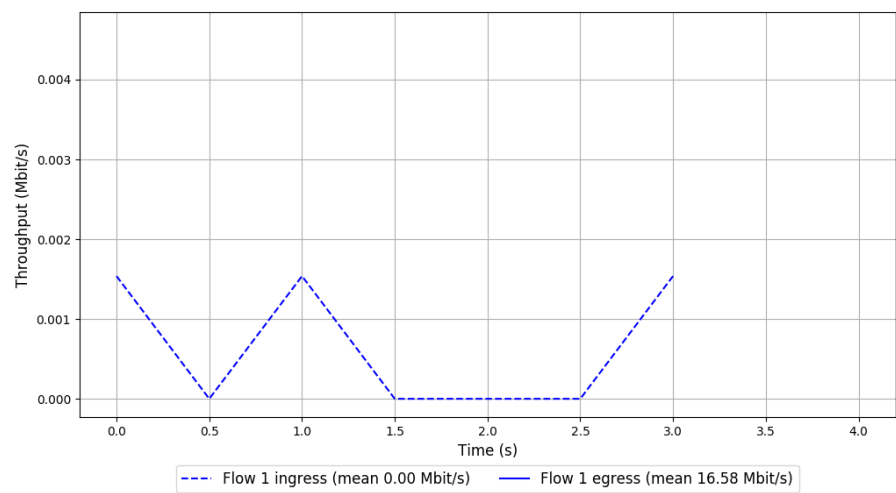
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	9	104.48	60.29	0.15
TCP Cubic	10	86.11	55.04	0.25
LEDBAT	7	8.18	53.50	0.52
PCC	10	601.82	104.85	0.52
QUIC Cubic	9	59.32	52.33	0.00
SCReAM	10	0.21	52.62	0.00
WebRTC media	10	2.29	52.03	0.00
Sprout	10	7.77	53.97	0.10
TaoVA-100x	10	136.24	53.25	0.02
TCP Vegas	10	42.32	53.72	0.24
Verus	9	254.36	100.26	0.15
Copa	10	76.46	52.83	0.00
Indigo	7	180.53	53.36	0.01
Indigo-calib	10	187.94	53.12	0.03

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 12:02:35

End at: 2017-11-30 12:03:05

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-30 12:12:44

End at: 2017-11-30 12:13:14

Below is generated by plot.py at 2017-11-30 14:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.98 Mbit/s

95th percentile per-packet one-way delay: 60.298 ms

Loss rate: 0.01%

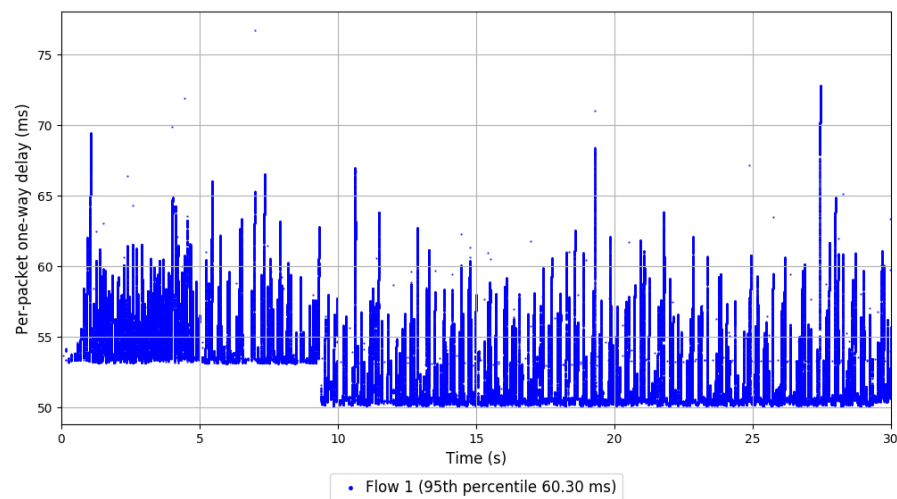
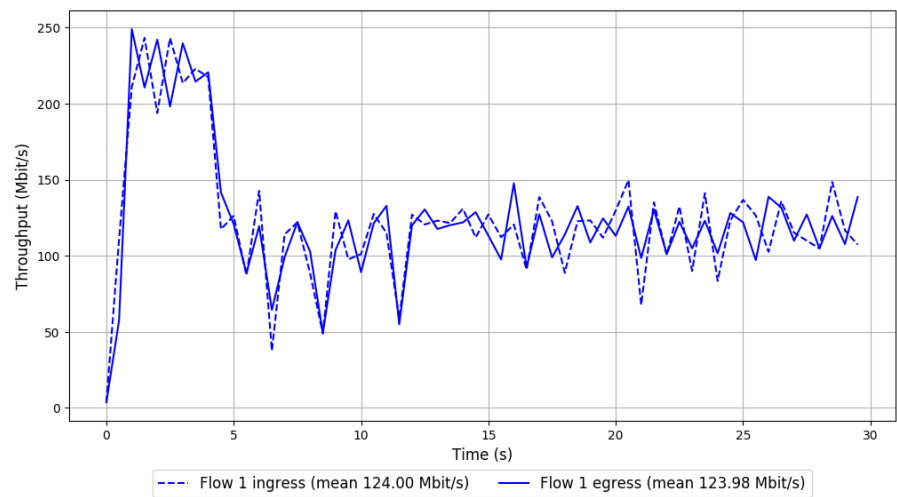
-- Flow 1:

Average throughput: 123.98 Mbit/s

95th percentile per-packet one-way delay: 60.298 ms

Loss rate: 0.01%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-30 12:23:12

End at: 2017-11-30 12:23:42

Below is generated by plot.py at 2017-11-30 14:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.68 Mbit/s

95th percentile per-packet one-way delay: 60.049 ms

Loss rate: 0.00%

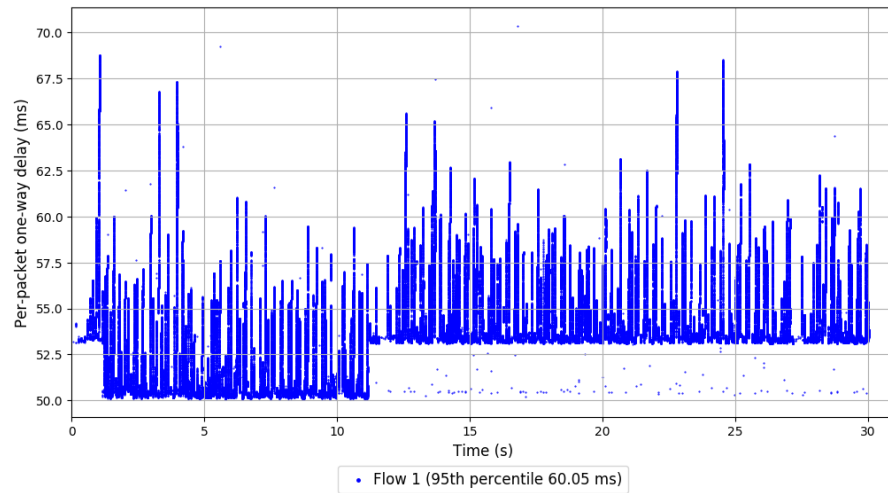
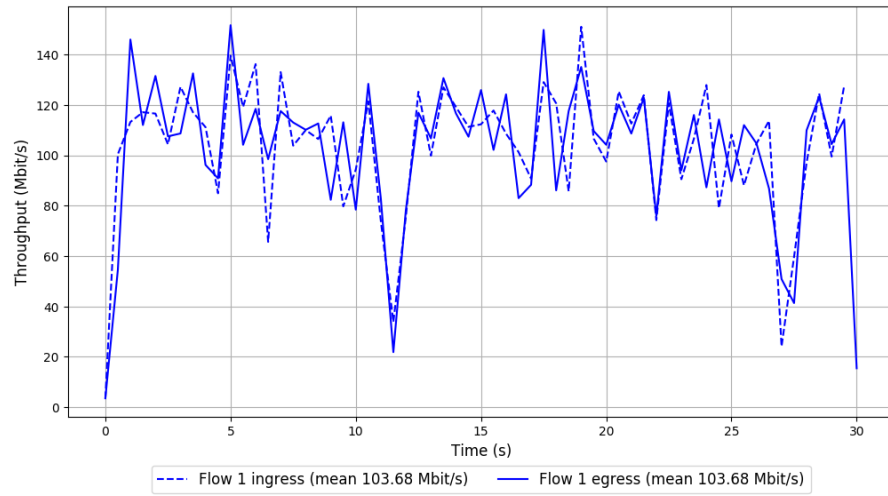
-- Flow 1:

Average throughput: 103.68 Mbit/s

95th percentile per-packet one-way delay: 60.049 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-30 12:33:36

End at: 2017-11-30 12:34:06

Below is generated by plot.py at 2017-11-30 14:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.27 Mbit/s

95th percentile per-packet one-way delay: 60.153 ms

Loss rate: 0.57%

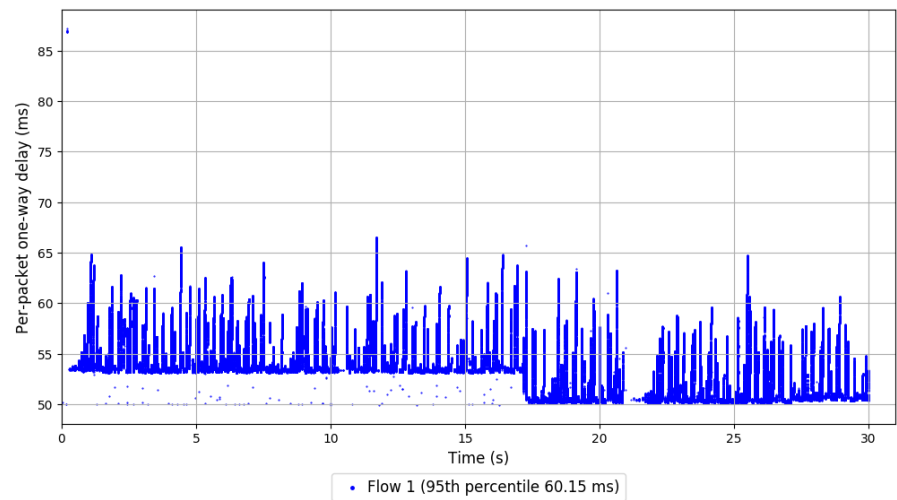
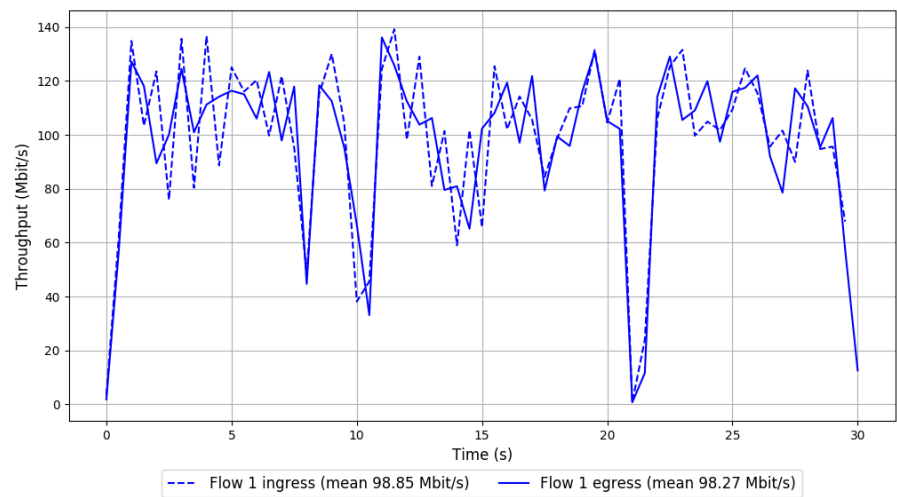
-- Flow 1:

Average throughput: 98.27 Mbit/s

95th percentile per-packet one-way delay: 60.153 ms

Loss rate: 0.57%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-30 12:43:37

End at: 2017-11-30 12:44:07

Below is generated by plot.py at 2017-11-30 14:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.42 Mbit/s

95th percentile per-packet one-way delay: 59.929 ms

Loss rate: 0.22%

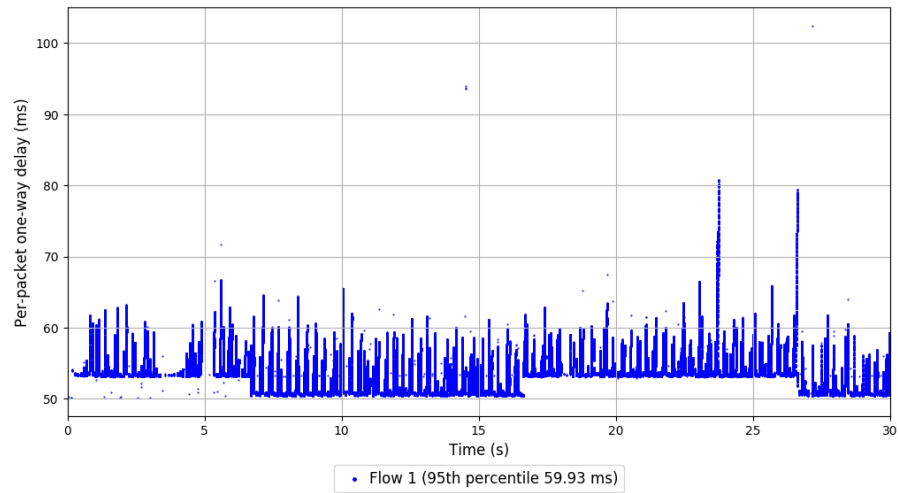
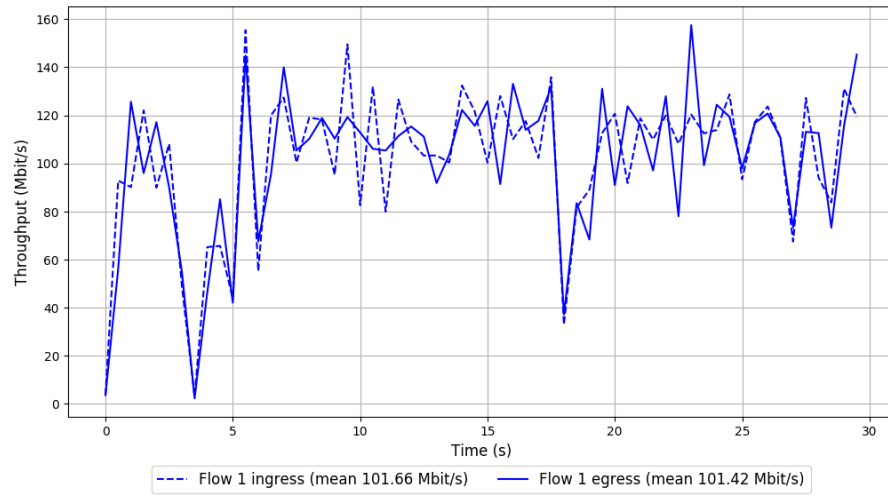
-- Flow 1:

Average throughput: 101.42 Mbit/s

95th percentile per-packet one-way delay: 59.929 ms

Loss rate: 0.22%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-30 12:54:06

End at: 2017-11-30 12:54:36

Below is generated by plot.py at 2017-11-30 14:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.21 Mbit/s

95th percentile per-packet one-way delay: 59.926 ms

Loss rate: 0.19%

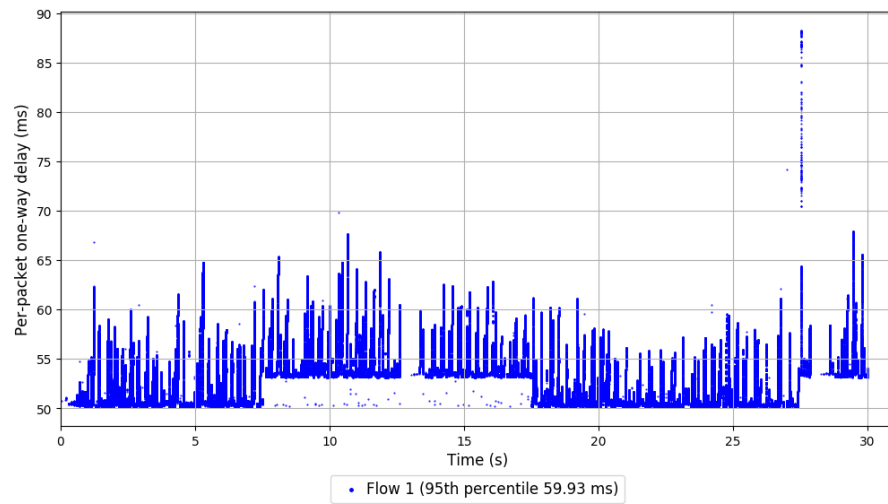
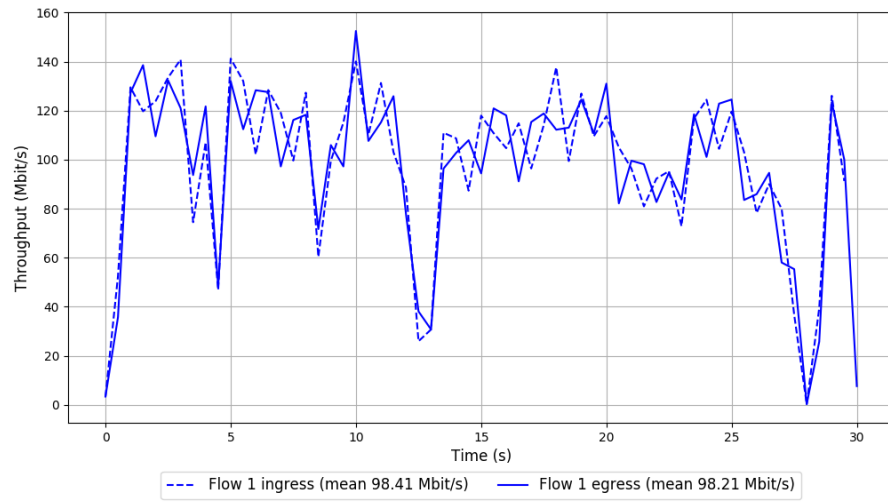
-- Flow 1:

Average throughput: 98.21 Mbit/s

95th percentile per-packet one-way delay: 59.926 ms

Loss rate: 0.19%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-11-30 13:04:28

End at: 2017-11-30 13:04:58

Below is generated by plot.py at 2017-11-30 14:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.62 Mbit/s

95th percentile per-packet one-way delay: 61.564 ms

Loss rate: 0.21%

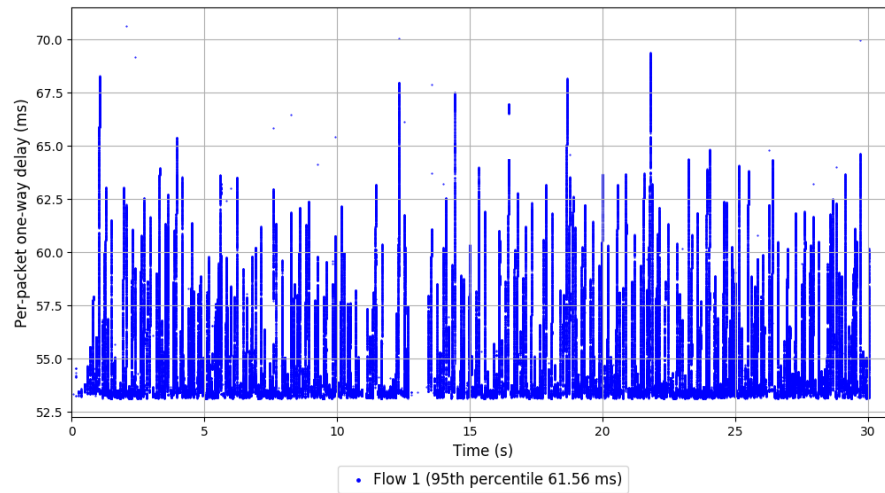
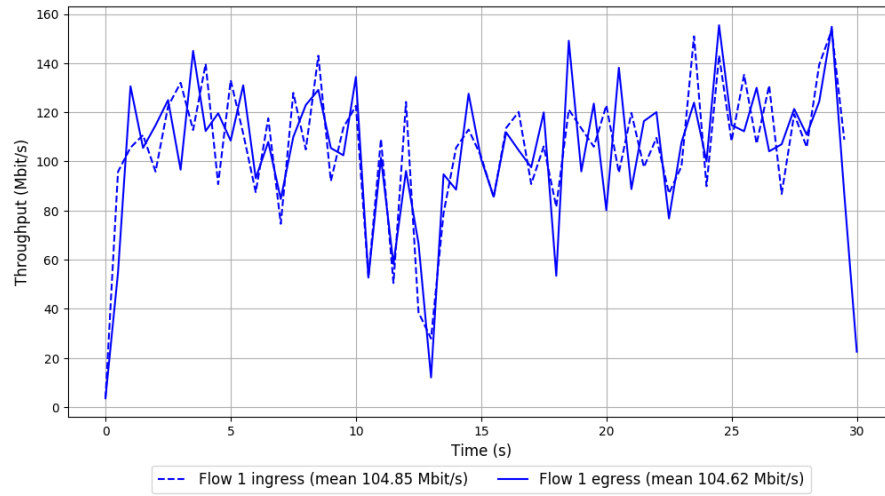
-- Flow 1:

Average throughput: 104.62 Mbit/s

95th percentile per-packet one-way delay: 61.564 ms

Loss rate: 0.21%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-30 13:14:46

End at: 2017-11-30 13:15:16

Below is generated by plot.py at 2017-11-30 14:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.52 Mbit/s

95th percentile per-packet one-way delay: 60.976 ms

Loss rate: 0.09%

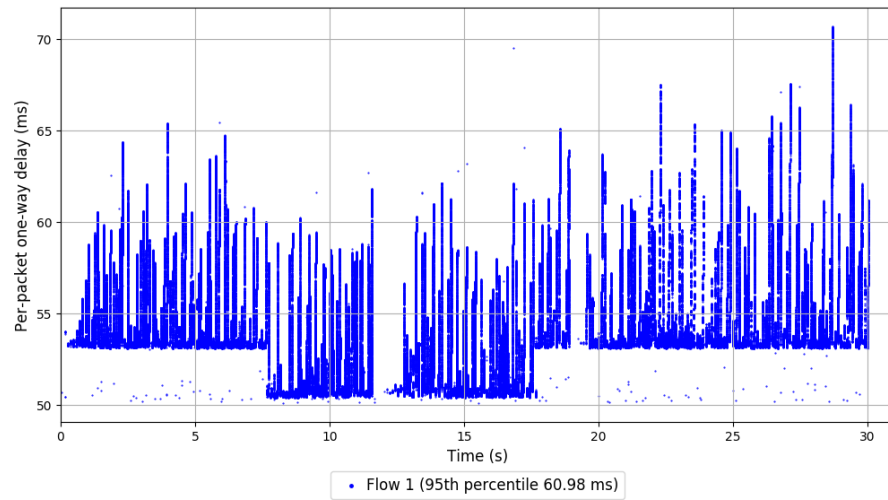
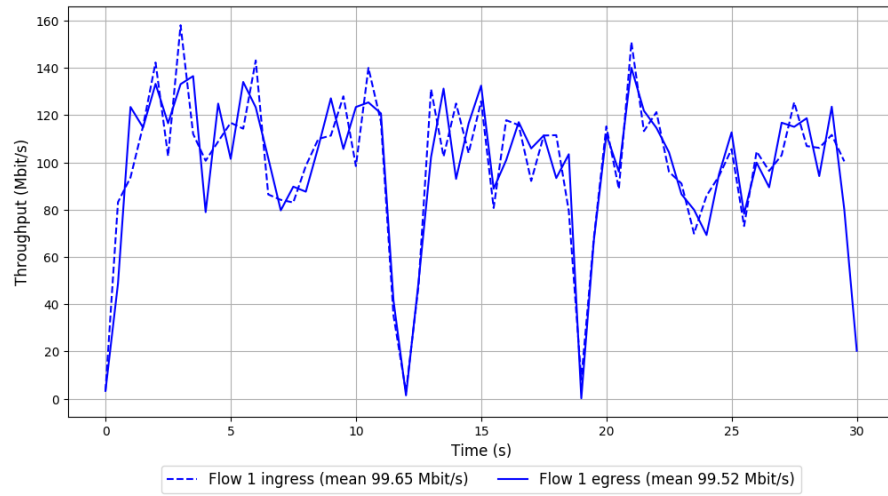
-- Flow 1:

Average throughput: 99.52 Mbit/s

95th percentile per-packet one-way delay: 60.976 ms

Loss rate: 0.09%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-11-30 13:25:00

End at: 2017-11-30 13:25:30

Below is generated by plot.py at 2017-11-30 14:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.85 Mbit/s

95th percentile per-packet one-way delay: 60.929 ms

Loss rate: 0.02%

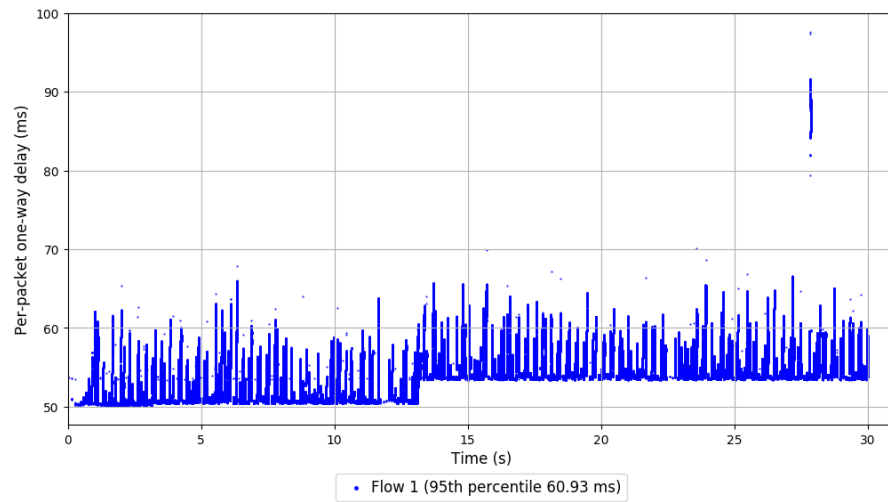
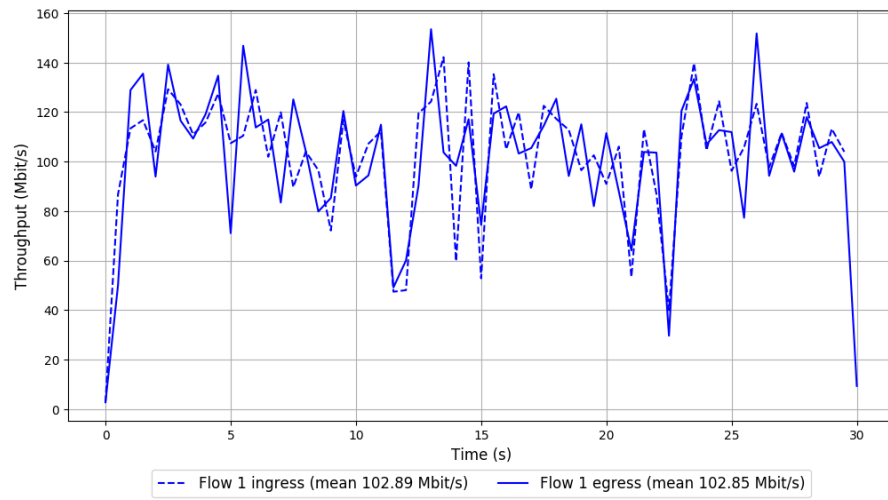
-- Flow 1:

Average throughput: 102.85 Mbit/s

95th percentile per-packet one-way delay: 60.929 ms

Loss rate: 0.02%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-30 13:35:06

End at: 2017-11-30 13:35:36

Below is generated by plot.py at 2017-11-30 14:33:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.73 Mbit/s

95th percentile per-packet one-way delay: 58.802 ms

Loss rate: 0.01%

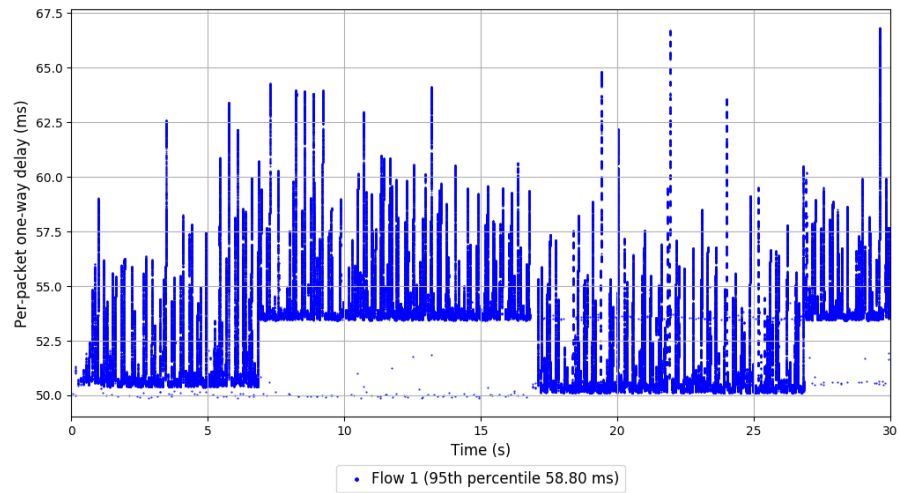
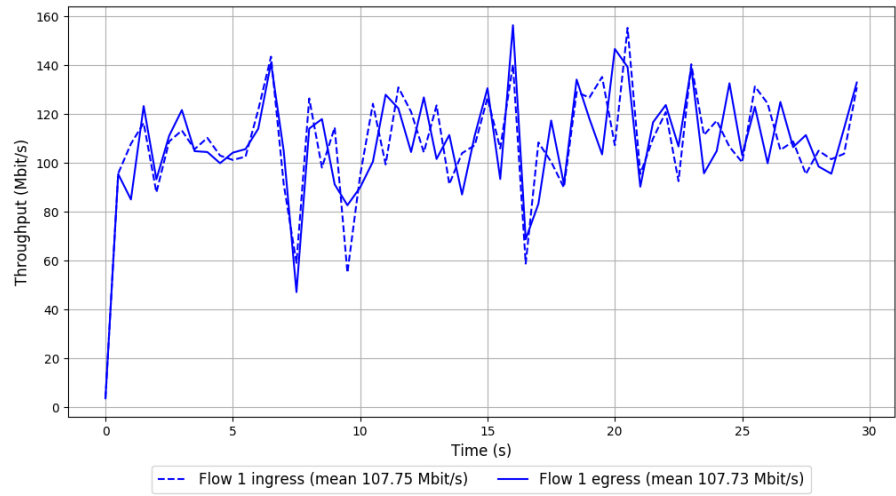
-- Flow 1:

Average throughput: 107.73 Mbit/s

95th percentile per-packet one-way delay: 58.802 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 12:01:05

End at: 2017-11-30 12:01:35

Below is generated by plot.py at 2017-11-30 14:33:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 54.494 ms

Loss rate: 0.75%

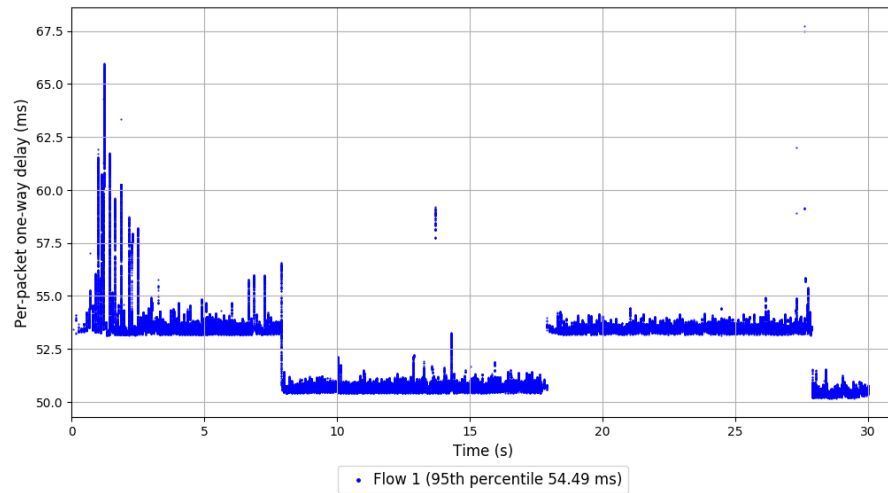
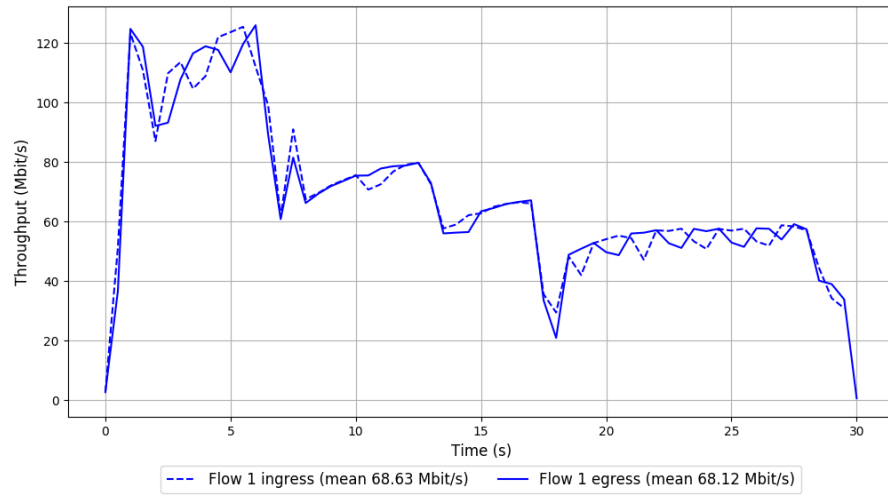
-- Flow 1:

Average throughput: 68.12 Mbit/s

95th percentile per-packet one-way delay: 54.494 ms

Loss rate: 0.75%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 12:11:12

End at: 2017-11-30 12:11:42

Below is generated by plot.py at 2017-11-30 14:33:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 54.260 ms

Loss rate: 0.23%

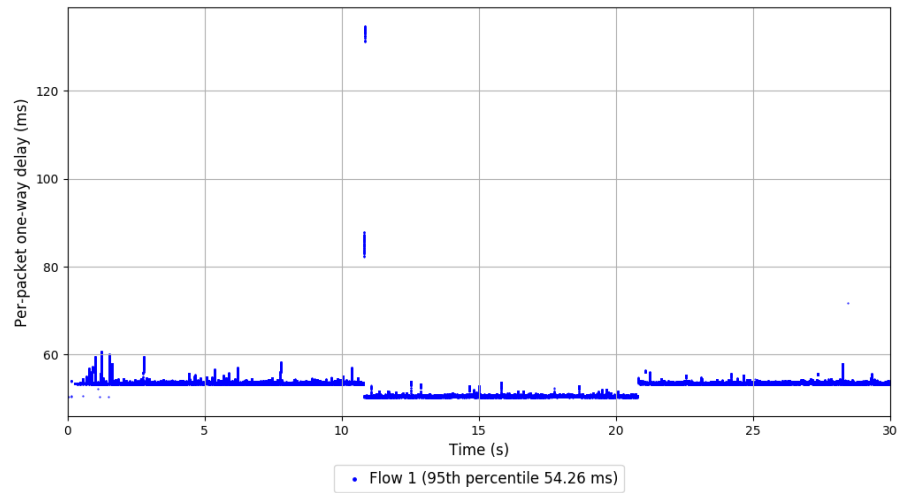
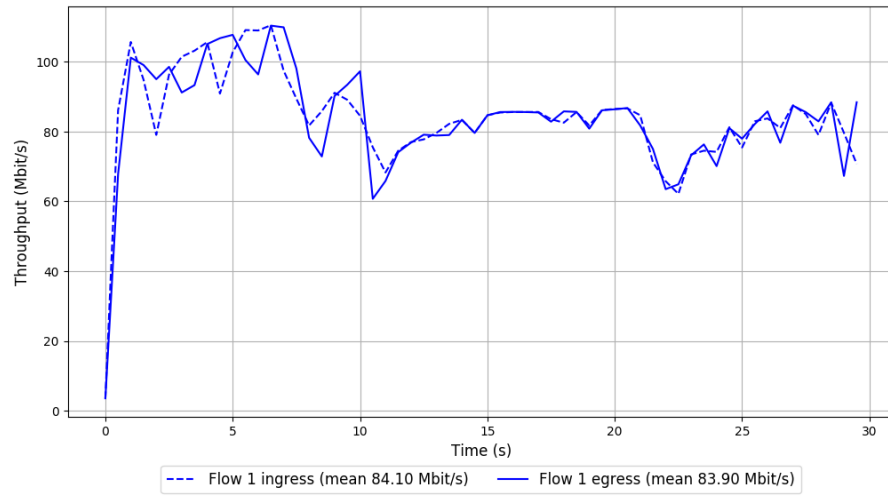
-- Flow 1:

Average throughput: 83.90 Mbit/s

95th percentile per-packet one-way delay: 54.260 ms

Loss rate: 0.23%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 12:21:41

End at: 2017-11-30 12:22:11

Below is generated by plot.py at 2017-11-30 14:33:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.52 Mbit/s

95th percentile per-packet one-way delay: 54.032 ms

Loss rate: 0.83%

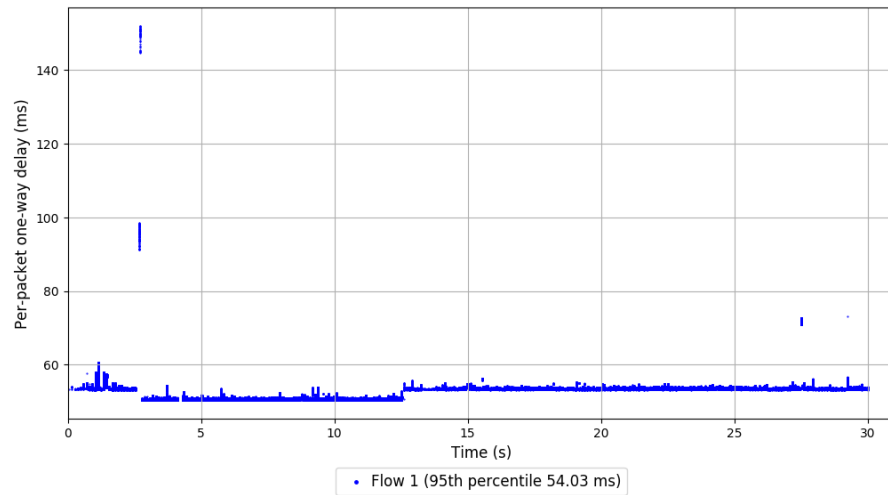
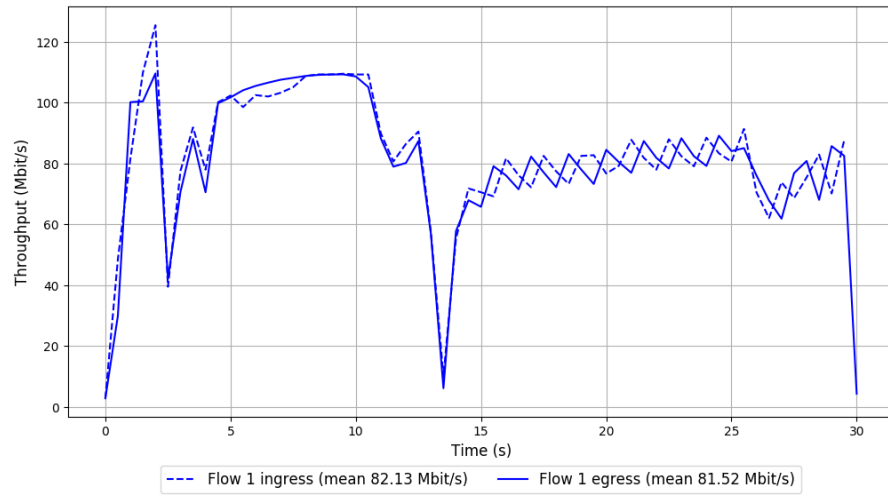
-- Flow 1:

Average throughput: 81.52 Mbit/s

95th percentile per-packet one-way delay: 54.032 ms

Loss rate: 0.83%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 12:32:03

End at: 2017-11-30 12:32:33

Below is generated by plot.py at 2017-11-30 14:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.04 Mbit/s

95th percentile per-packet one-way delay: 51.779 ms

Loss rate: 0.00%

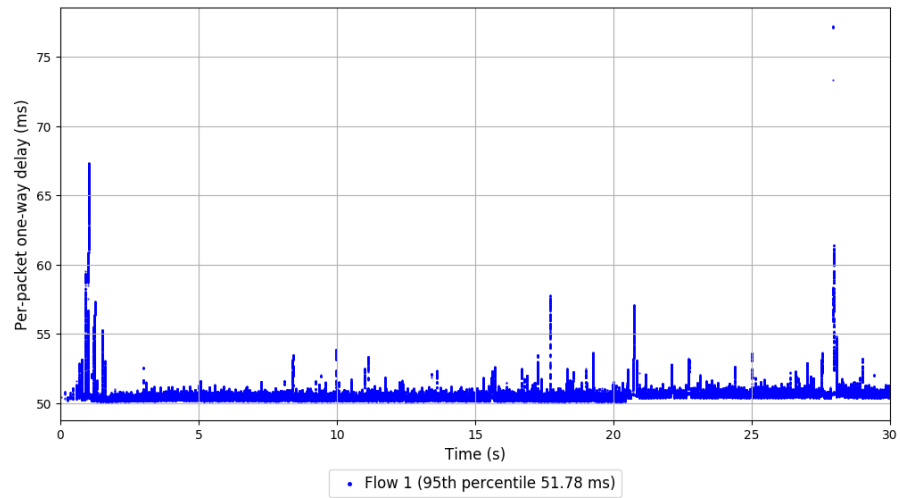
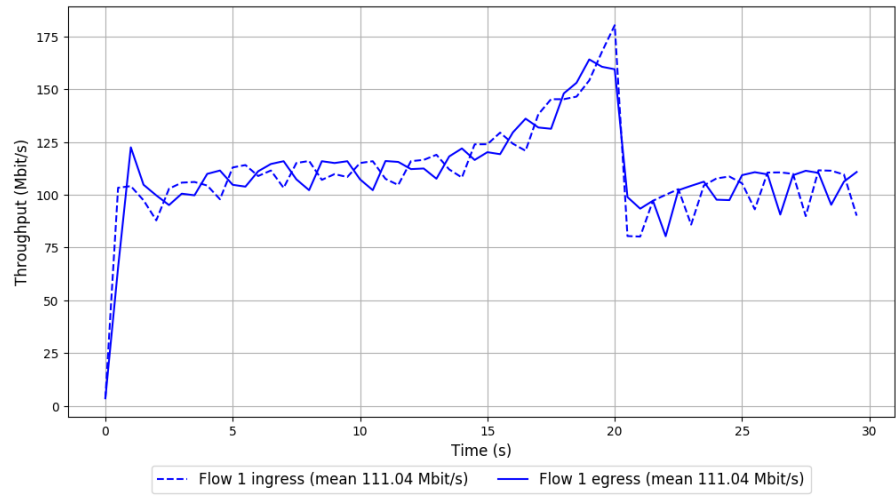
-- Flow 1:

Average throughput: 111.04 Mbit/s

95th percentile per-packet one-way delay: 51.779 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 12:42:06

End at: 2017-11-30 12:42:36

Below is generated by plot.py at 2017-11-30 14:34:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 52.772 ms

Loss rate: 0.19%

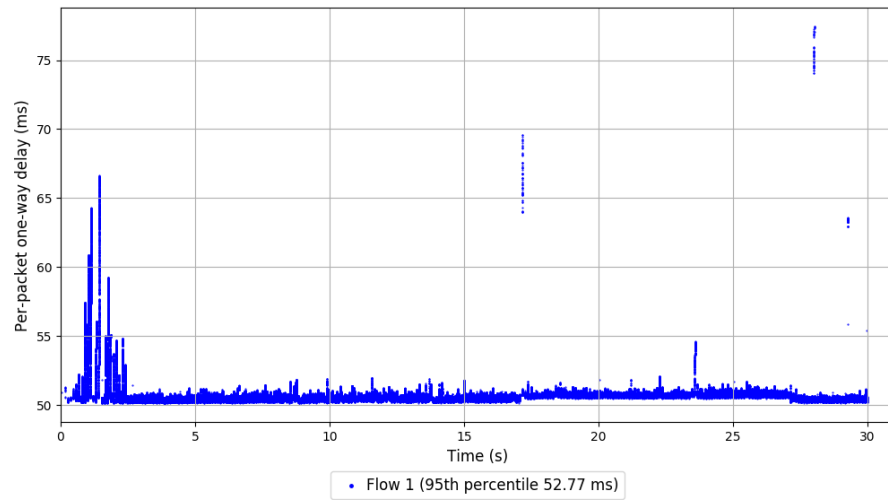
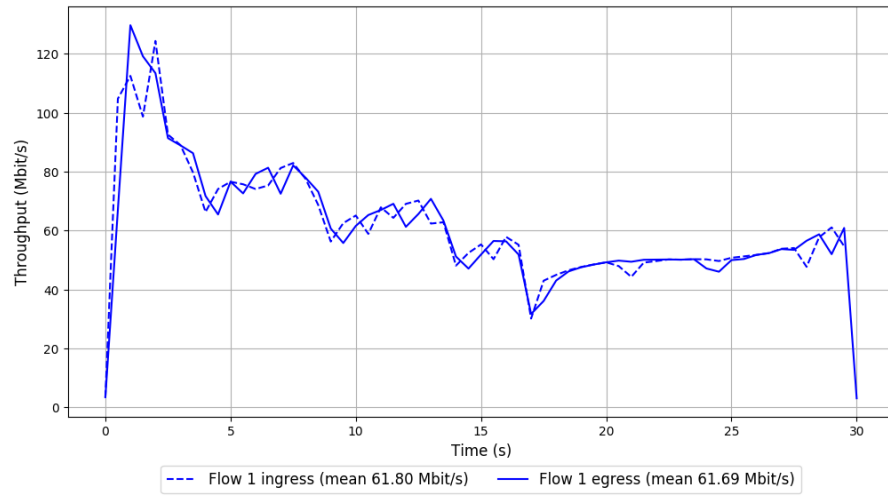
-- Flow 1:

Average throughput: 61.69 Mbit/s

95th percentile per-packet one-way delay: 52.772 ms

Loss rate: 0.19%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 12:52:33

End at: 2017-11-30 12:53:03

Below is generated by plot.py at 2017-11-30 14:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.03 Mbit/s

95th percentile per-packet one-way delay: 55.079 ms

Loss rate: 0.00%

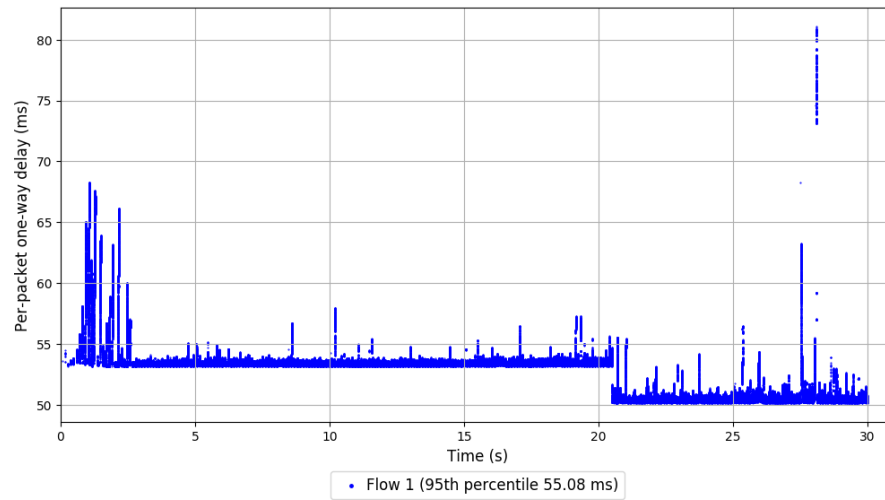
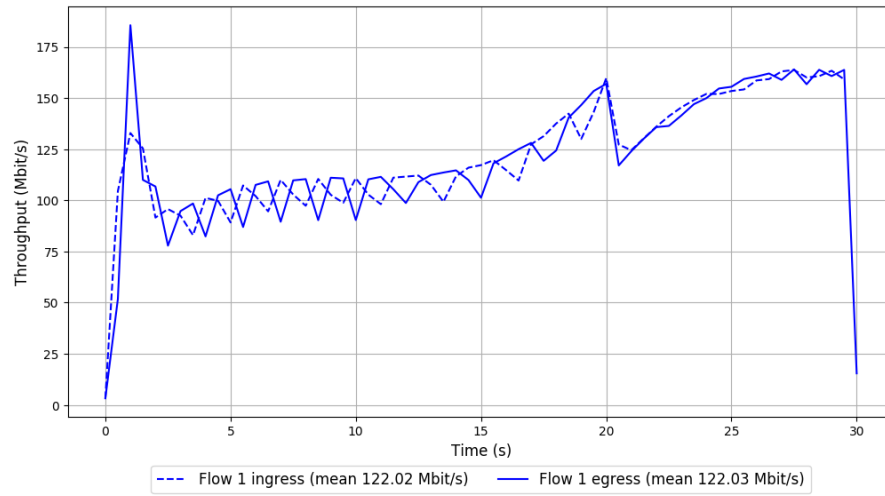
-- Flow 1:

Average throughput: 122.03 Mbit/s

95th percentile per-packet one-way delay: 55.079 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 13:02:56

End at: 2017-11-30 13:03:26

Below is generated by plot.py at 2017-11-30 14:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.72 Mbit/s

95th percentile per-packet one-way delay: 57.025 ms

Loss rate: 0.01%

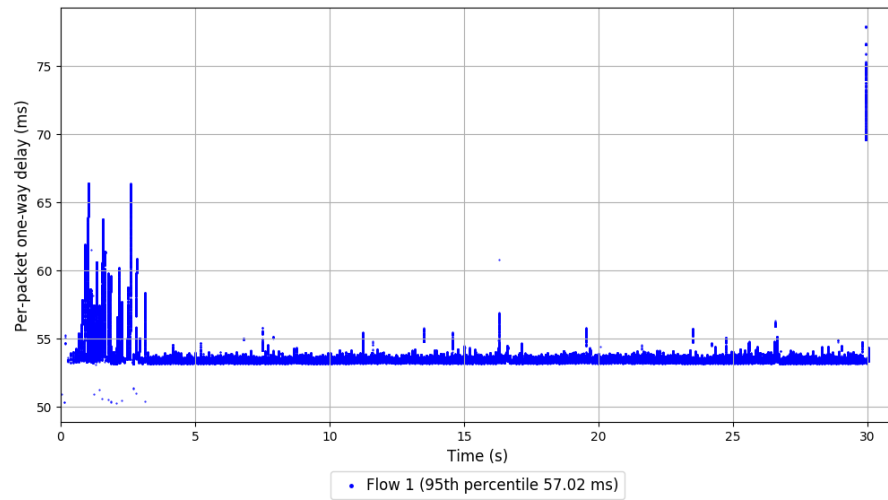
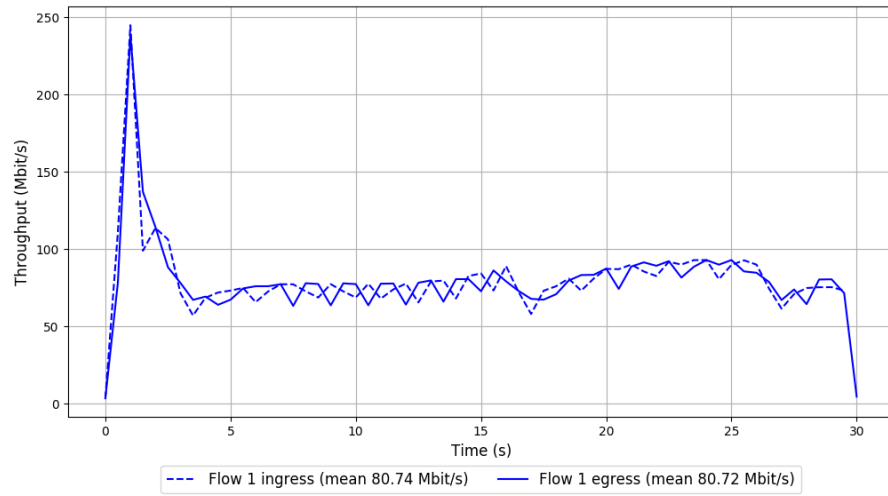
-- Flow 1:

Average throughput: 80.72 Mbit/s

95th percentile per-packet one-way delay: 57.025 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 13:13:16

End at: 2017-11-30 13:13:46

Below is generated by plot.py at 2017-11-30 14:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.18 Mbit/s

95th percentile per-packet one-way delay: 60.747 ms

Loss rate: 0.01%

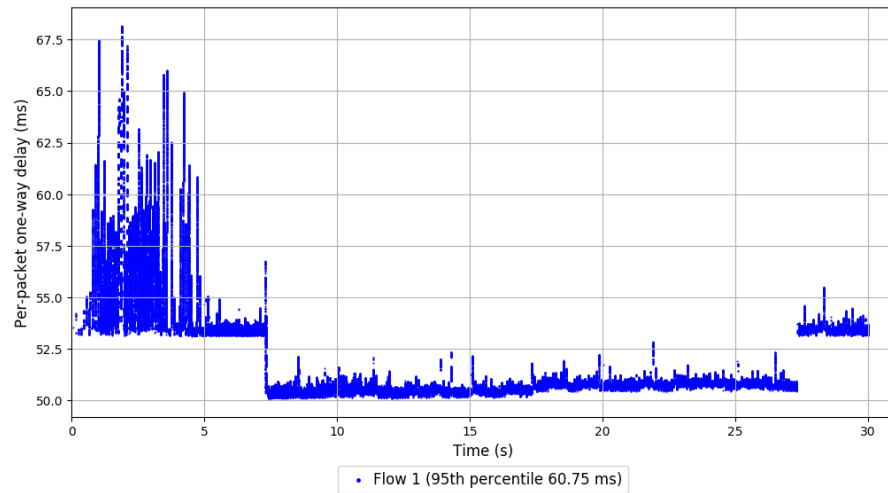
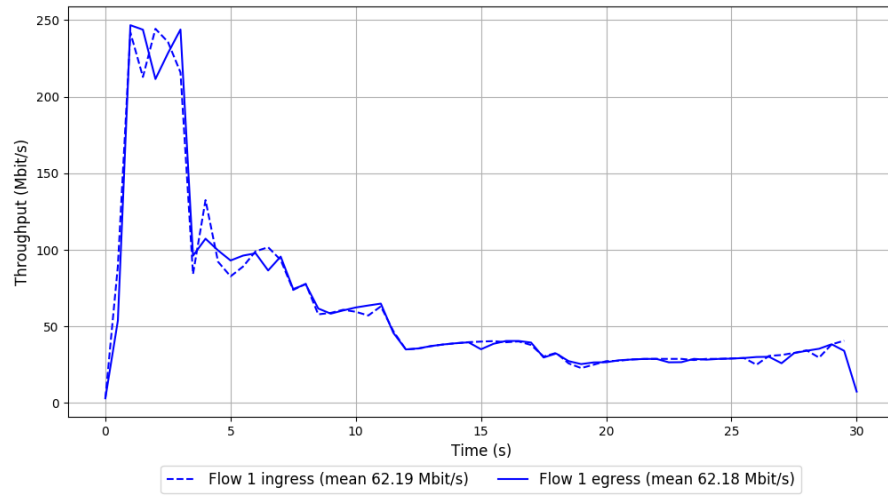
-- Flow 1:

Average throughput: 62.18 Mbit/s

95th percentile per-packet one-way delay: 60.747 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 13:23:26

End at: 2017-11-30 13:23:56

Below is generated by plot.py at 2017-11-30 14:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.88 Mbit/s

95th percentile per-packet one-way delay: 55.955 ms

Loss rate: 0.00%

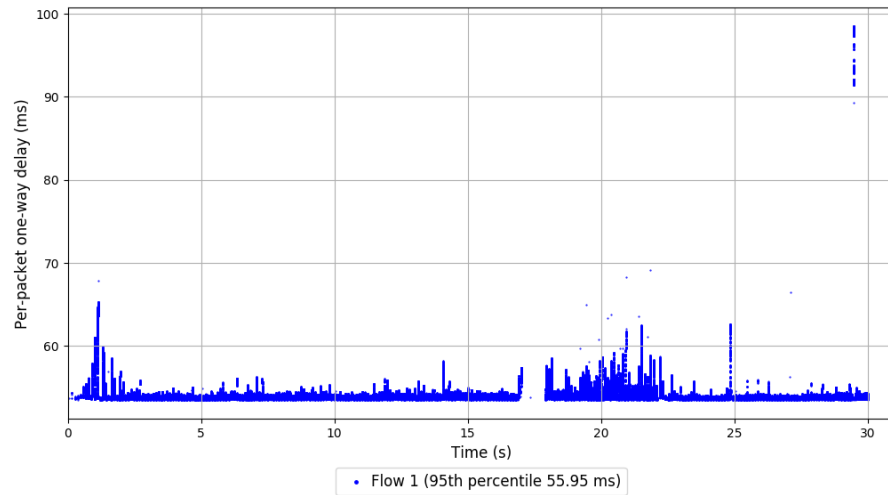
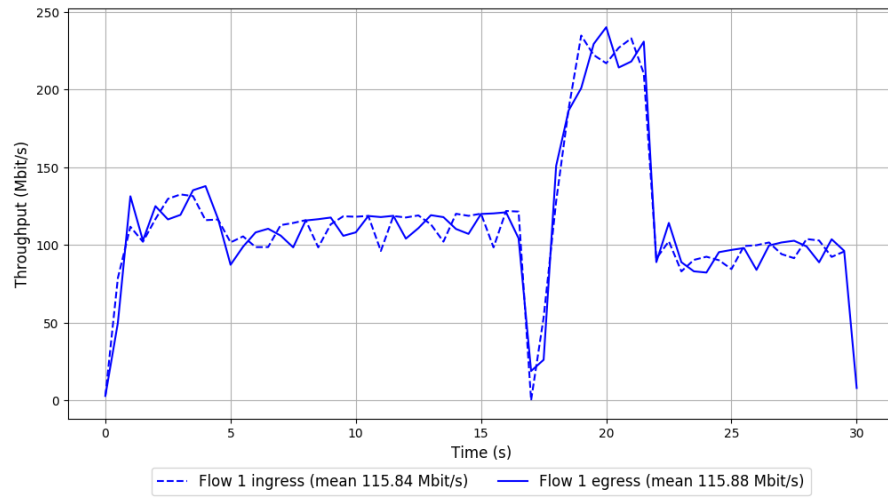
-- Flow 1:

Average throughput: 115.88 Mbit/s

95th percentile per-packet one-way delay: 55.955 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 13:33:35

End at: 2017-11-30 13:34:05

Below is generated by plot.py at 2017-11-30 14:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 54.263 ms

Loss rate: 0.45%

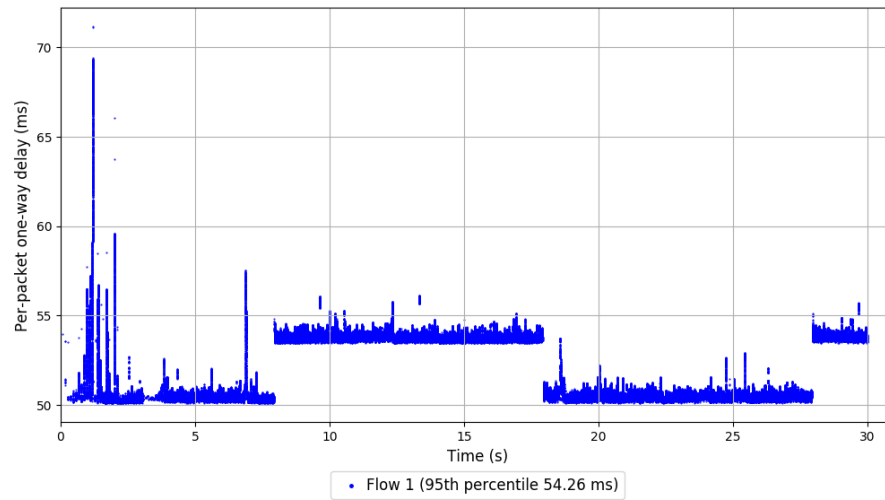
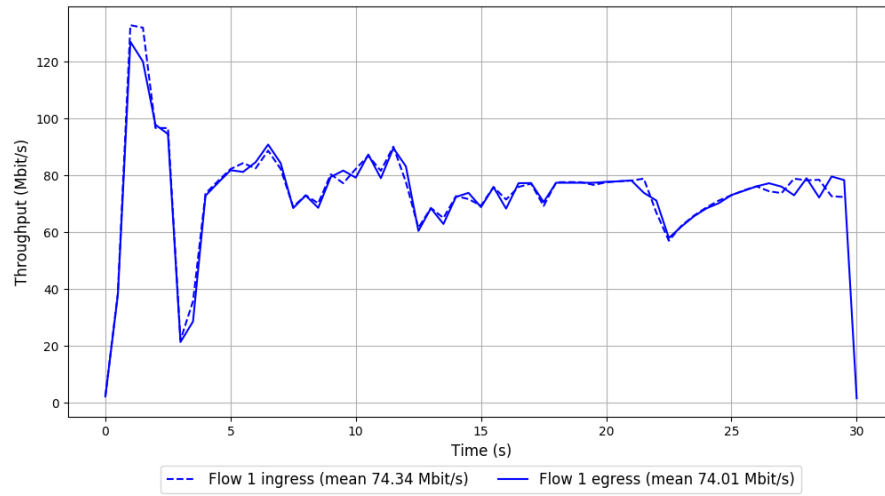
-- Flow 1:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 54.263 ms

Loss rate: 0.45%

Run 10: Report of TCP Cubic — Data Link

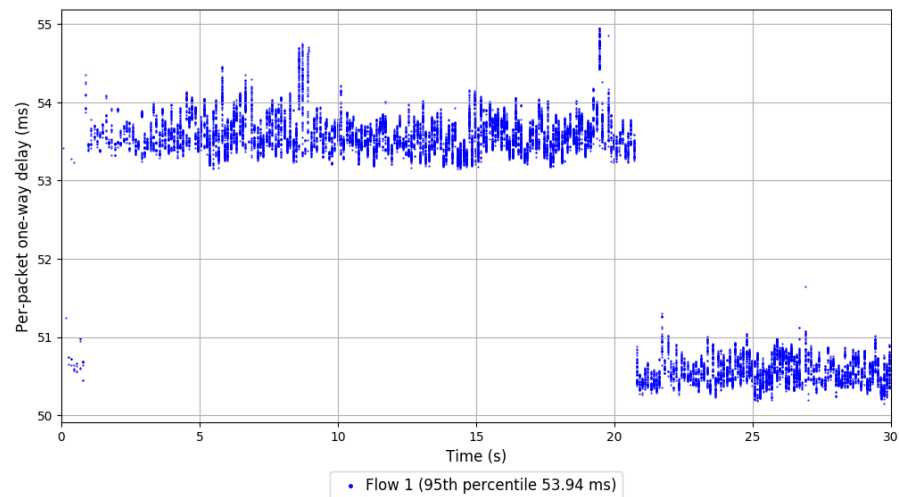
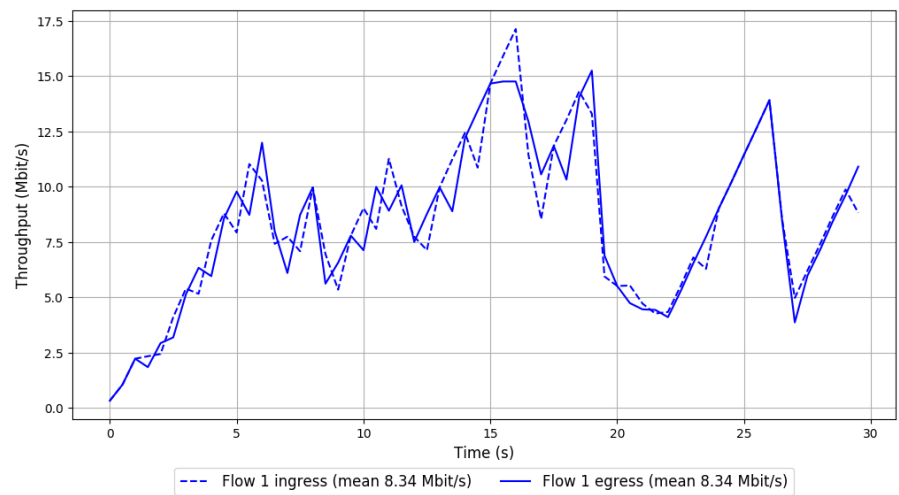


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 12:04:12
End at: 2017-11-30 12:04:42

# Below is generated by plot.py at 2017-11-30 14:35:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 53.940 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 8.34 Mbit/s
95th percentile per-packet one-way delay: 53.940 ms
Loss rate: 0.09%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-30 12:14:28

End at: 2017-11-30 12:14:58

Below is generated by plot.py at 2017-11-30 14:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 51.192 ms

Loss rate: 0.79%

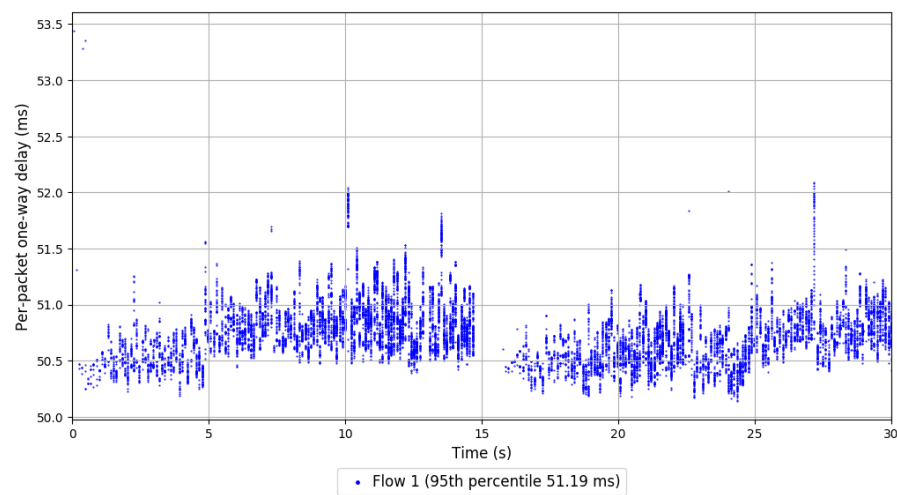
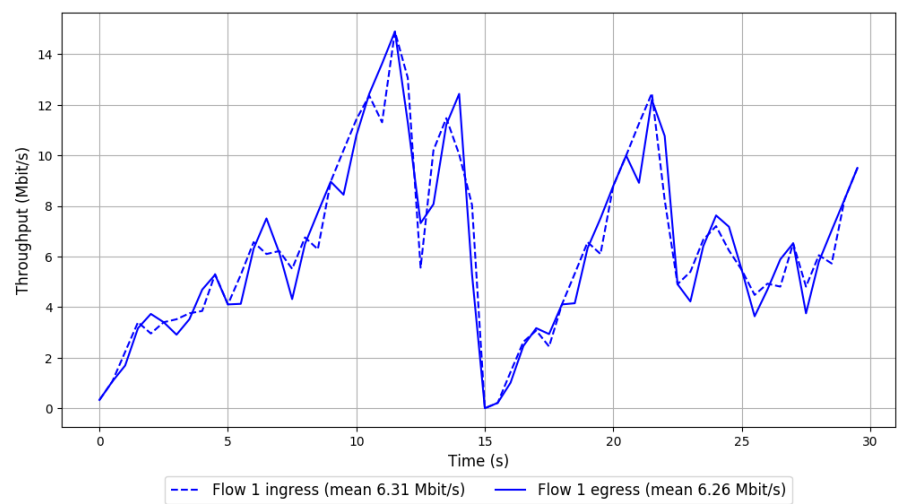
-- Flow 1:

Average throughput: 6.26 Mbit/s

95th percentile per-packet one-way delay: 51.192 ms

Loss rate: 0.79%

Run 2: Report of LEDBAT — Data Link

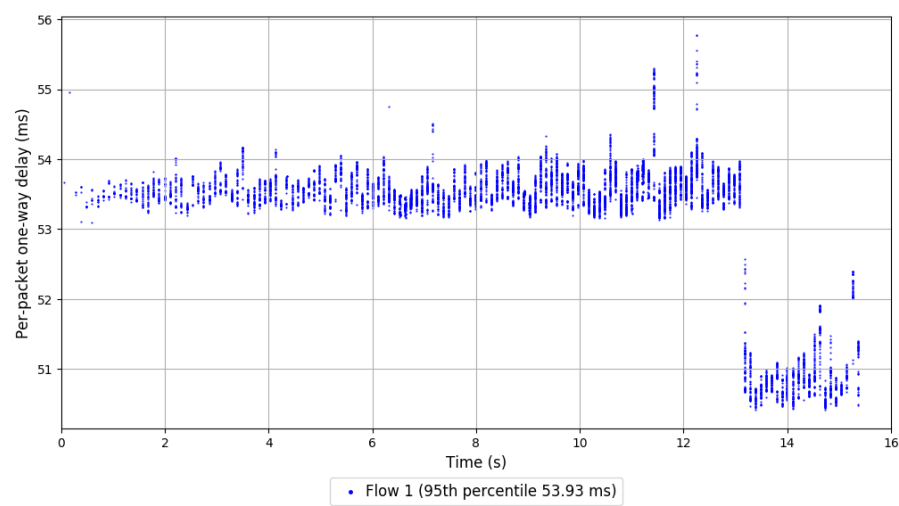
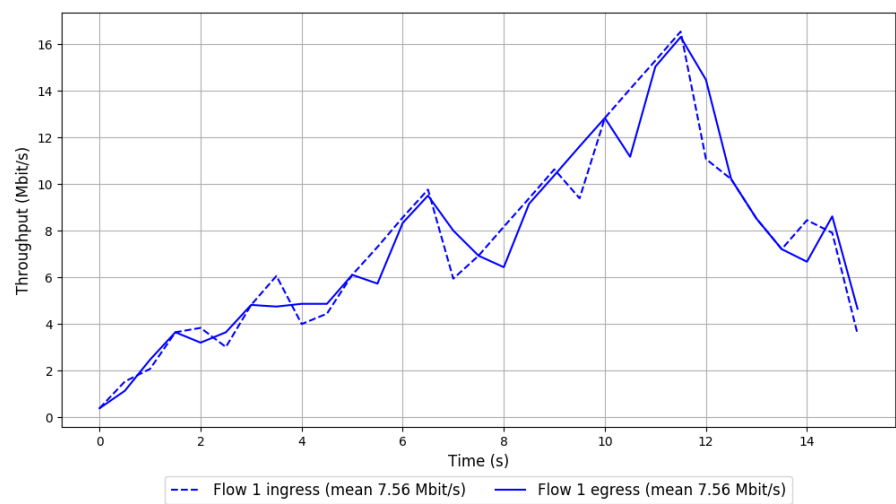


Run 3: Statistics of LEDBAT

Start at: 2017-11-30 12:24:56

End at: 2017-11-30 12:25:26

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-11-30 12:35:17

End at: 2017-11-30 12:35:47

Below is generated by plot.py at 2017-11-30 14:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.83%

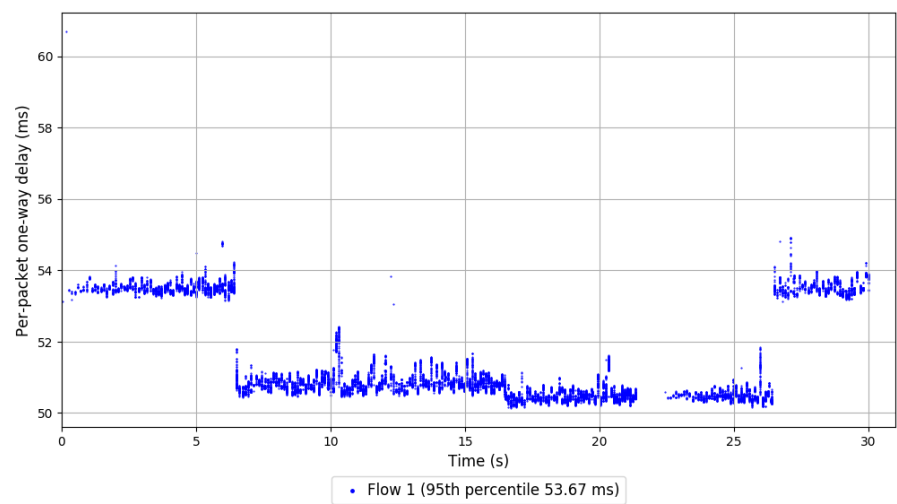
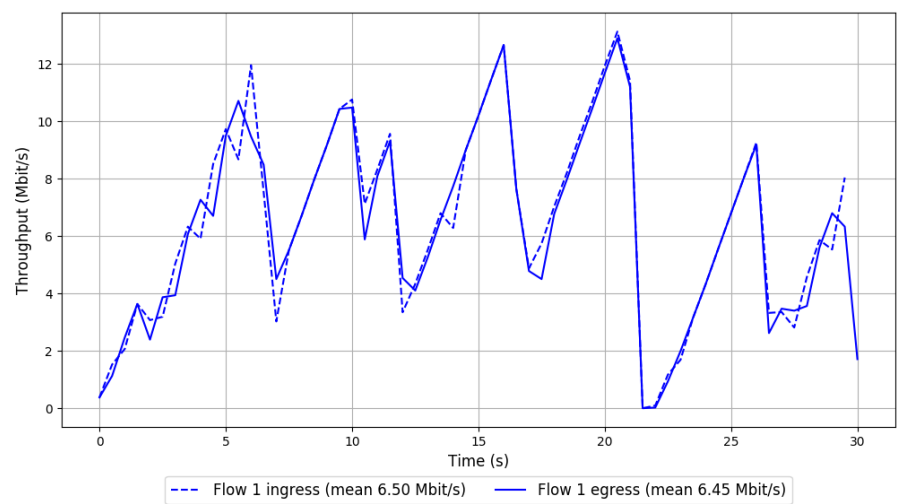
-- Flow 1:

Average throughput: 6.45 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.83%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-11-30 12:45:20

End at: 2017-11-30 12:45:50

Below is generated by plot.py at 2017-11-30 14:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.05%

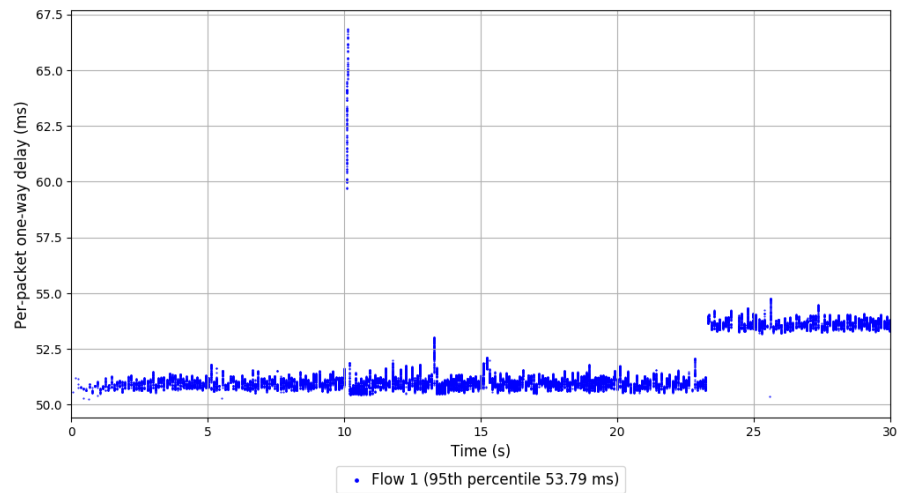
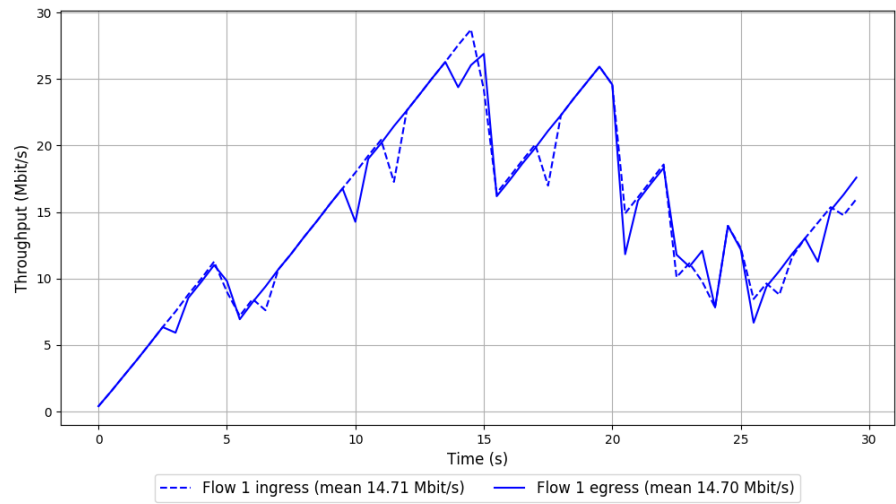
-- Flow 1:

Average throughput: 14.70 Mbit/s

95th percentile per-packet one-way delay: 53.789 ms

Loss rate: 0.05%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 12:55:47

End at: 2017-11-30 12:56:17

Below is generated by plot.py at 2017-11-30 14:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 0.99%

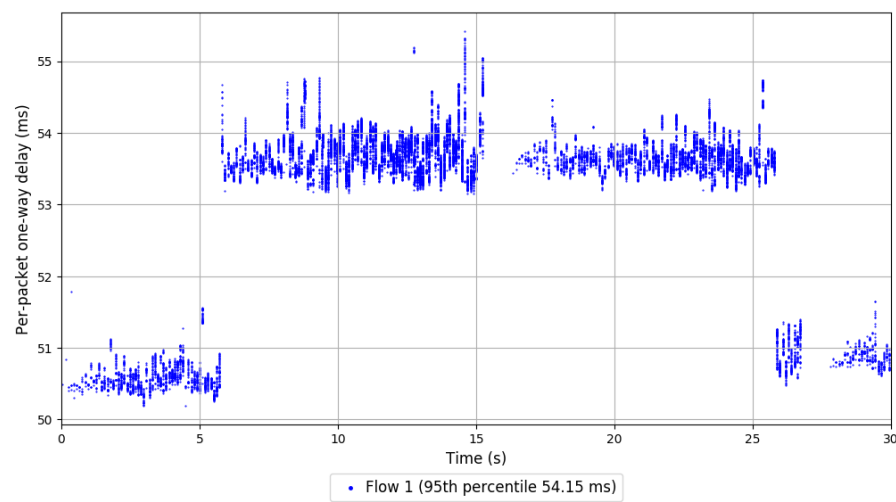
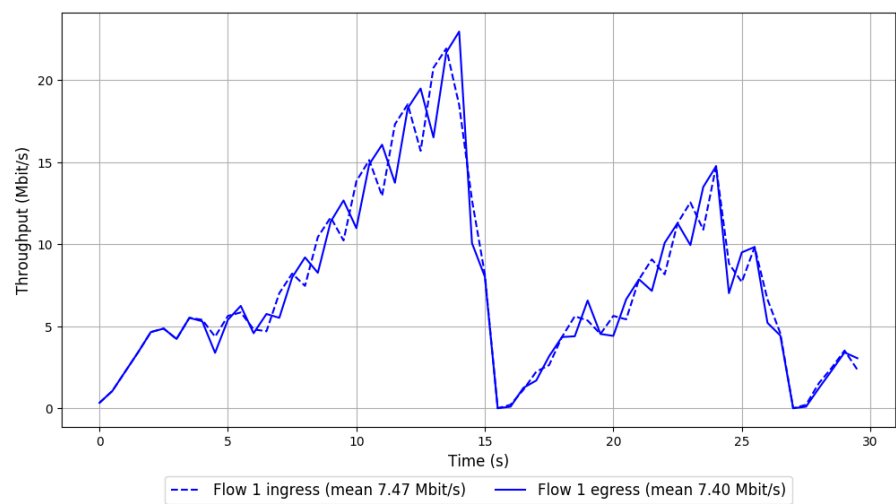
-- Flow 1:

Average throughput: 7.40 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 0.99%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-11-30 13:06:12

End at: 2017-11-30 13:06:42

Below is generated by plot.py at 2017-11-30 14:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 53.981 ms

Loss rate: 0.10%

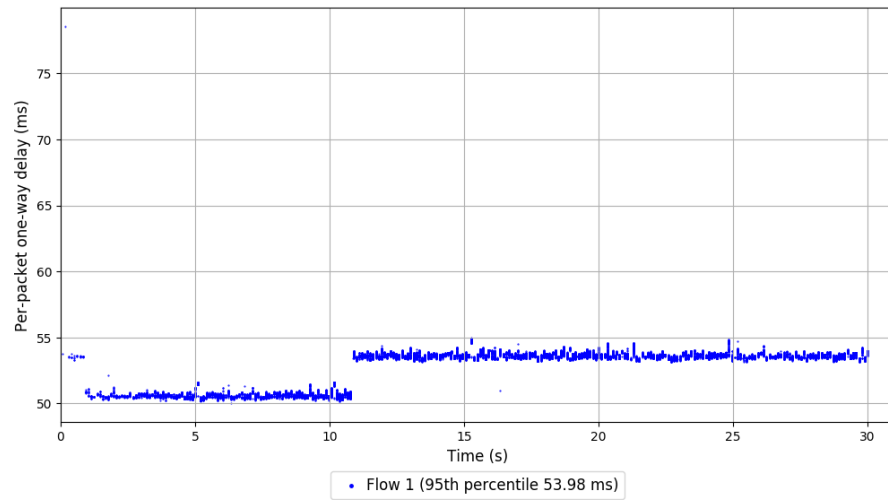
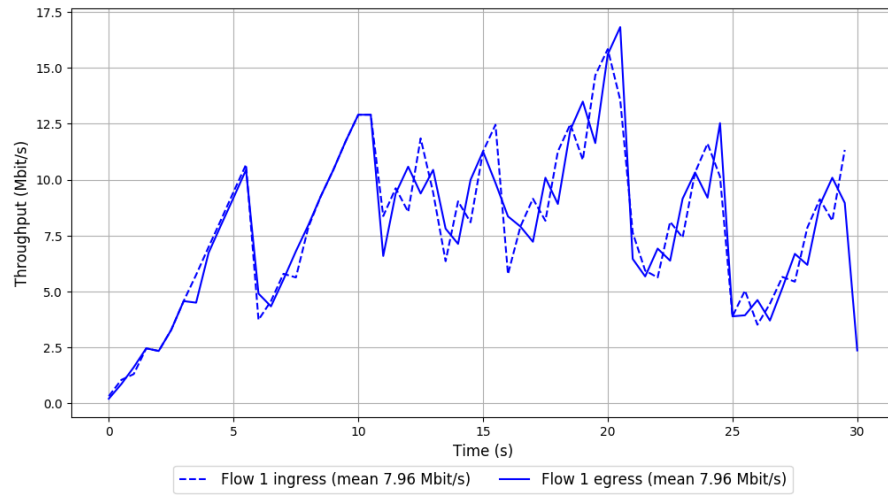
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 53.981 ms

Loss rate: 0.10%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-11-30 13:16:29

End at: 2017-11-30 13:16:59

Below is generated by plot.py at 2017-11-30 14:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.77%

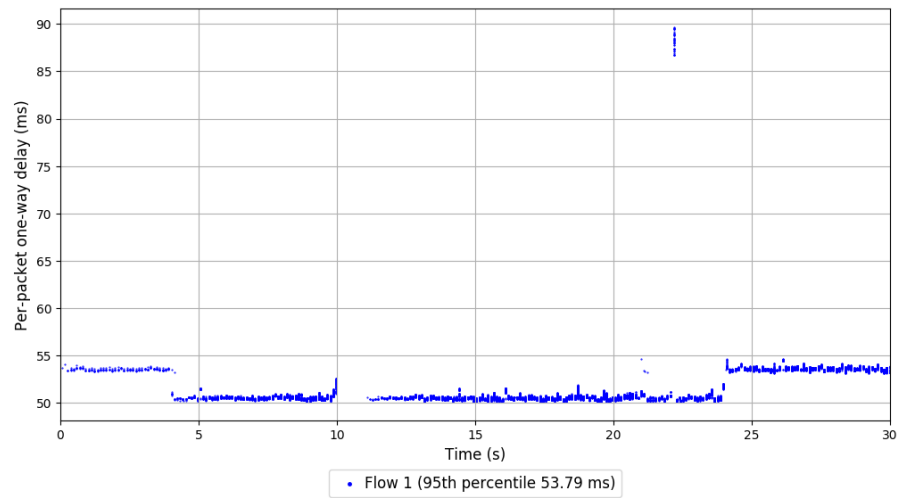
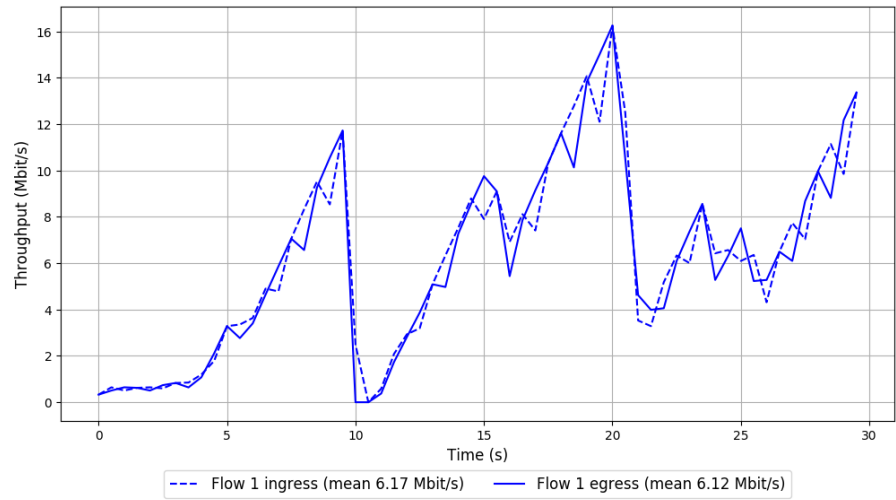
-- Flow 1:

Average throughput: 6.12 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.77%

Run 8: Report of LEDBAT — Data Link

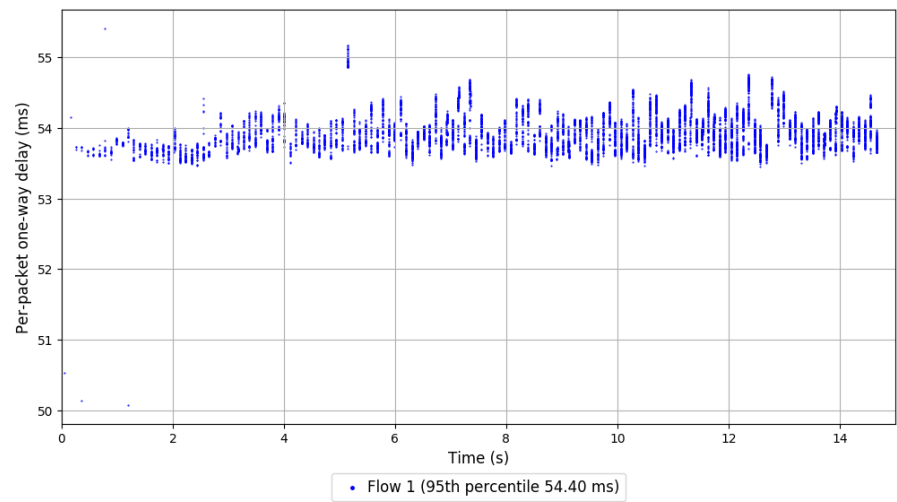
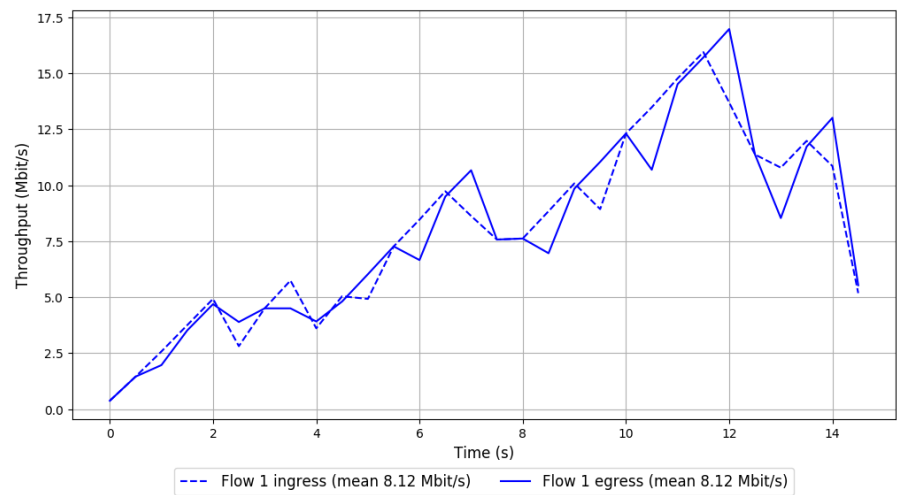


Run 9: Statistics of LEDBAT

Start at: 2017-11-30 13:26:44

End at: 2017-11-30 13:27:14

Run 9: Report of LEDBAT — Data Link

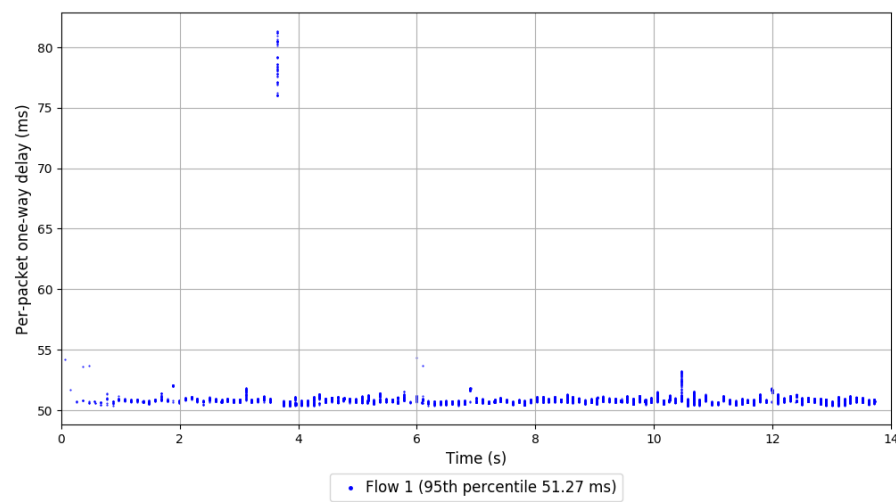
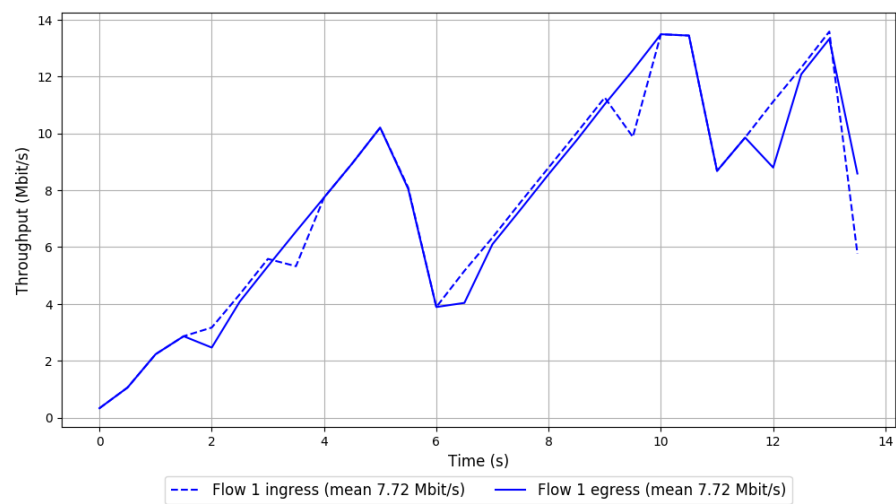


Run 10: Statistics of LEDBAT

Start at: 2017-11-30 13:36:51

End at: 2017-11-30 13:37:21

Run 10: Report of LEDBAT — Data Link

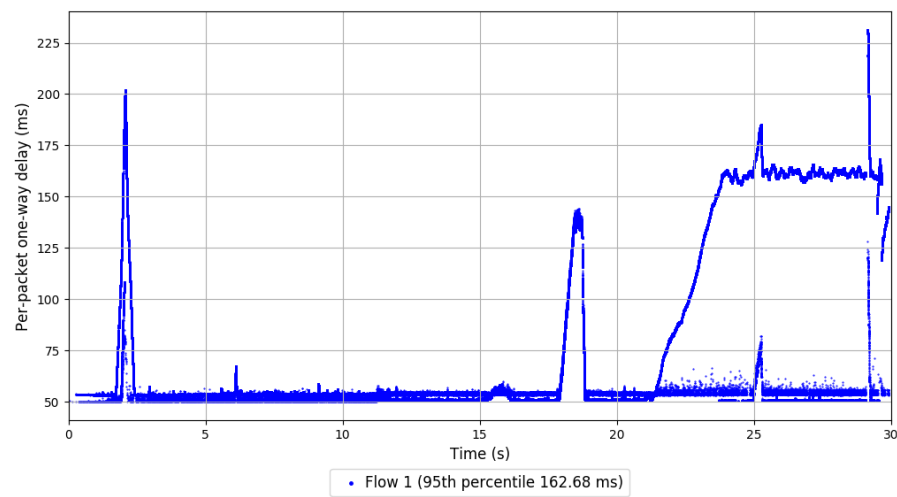
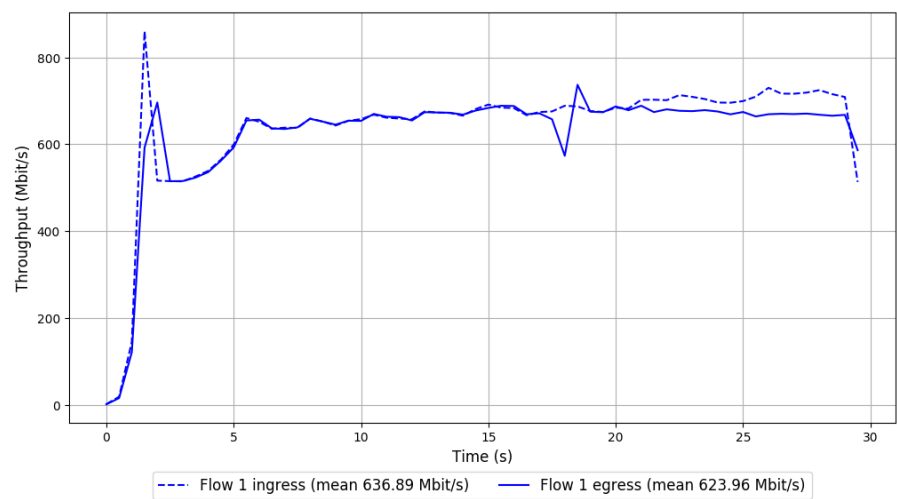


```
Run 1: Statistics of PCC

Start at: 2017-11-30 12:03:12
End at: 2017-11-30 12:03:42

# Below is generated by plot.py at 2017-11-30 14:45:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 623.96 Mbit/s
95th percentile per-packet one-way delay: 162.675 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 623.96 Mbit/s
95th percentile per-packet one-way delay: 162.675 ms
Loss rate: 2.03%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-30 12:13:28

End at: 2017-11-30 12:13:58

Below is generated by plot.py at 2017-11-30 14:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 620.20 Mbit/s

95th percentile per-packet one-way delay: 74.267 ms

Loss rate: 0.17%

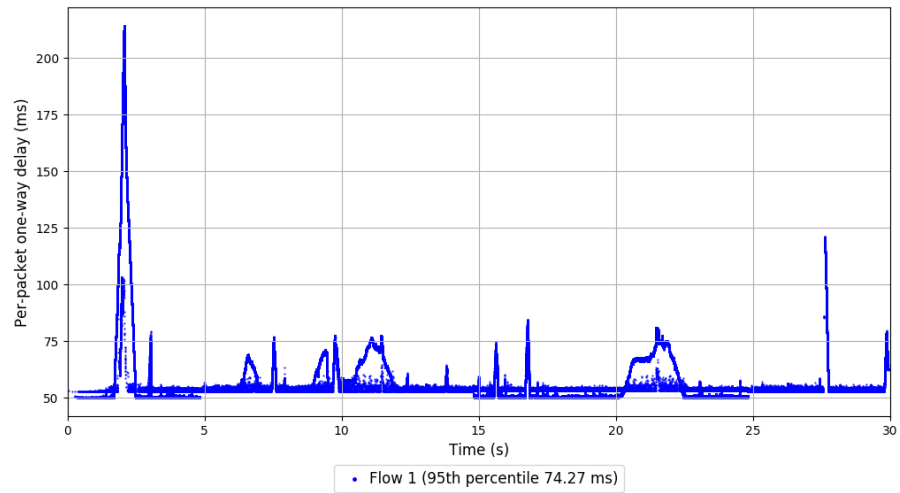
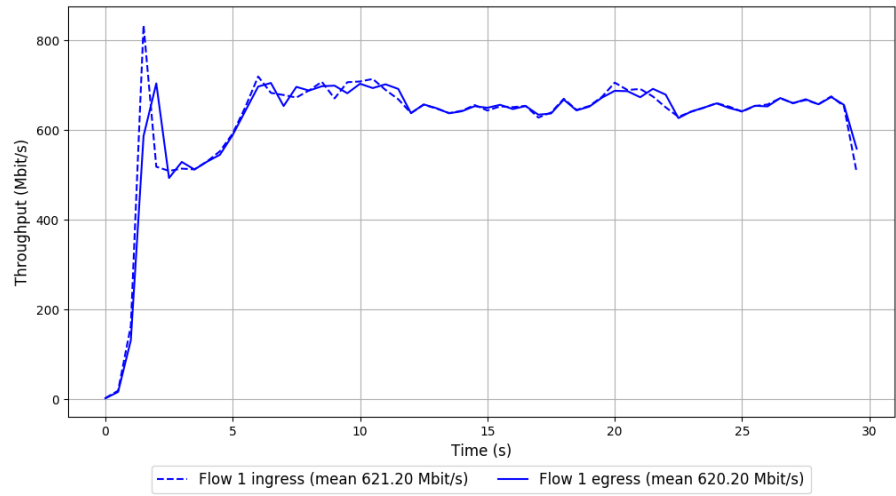
-- Flow 1:

Average throughput: 620.20 Mbit/s

95th percentile per-packet one-way delay: 74.267 ms

Loss rate: 0.17%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-11-30 12:23:56

End at: 2017-11-30 12:24:26

Below is generated by plot.py at 2017-11-30 14:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 616.37 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 0.20%

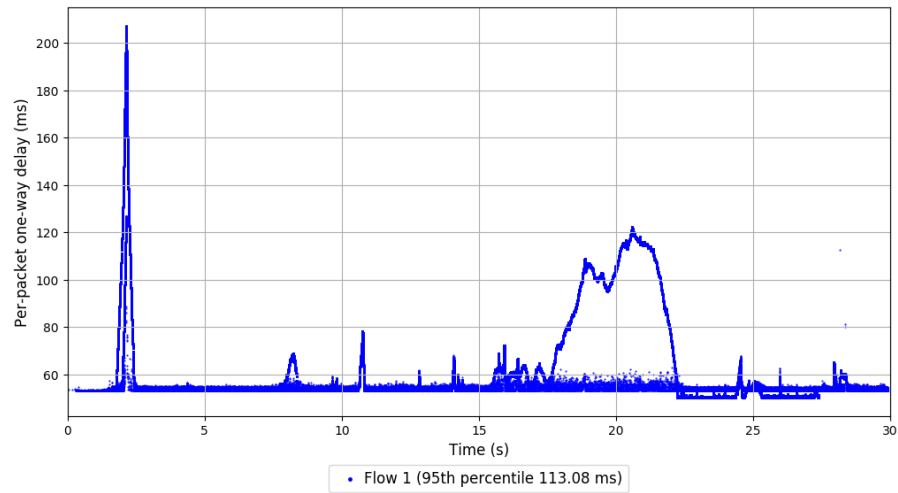
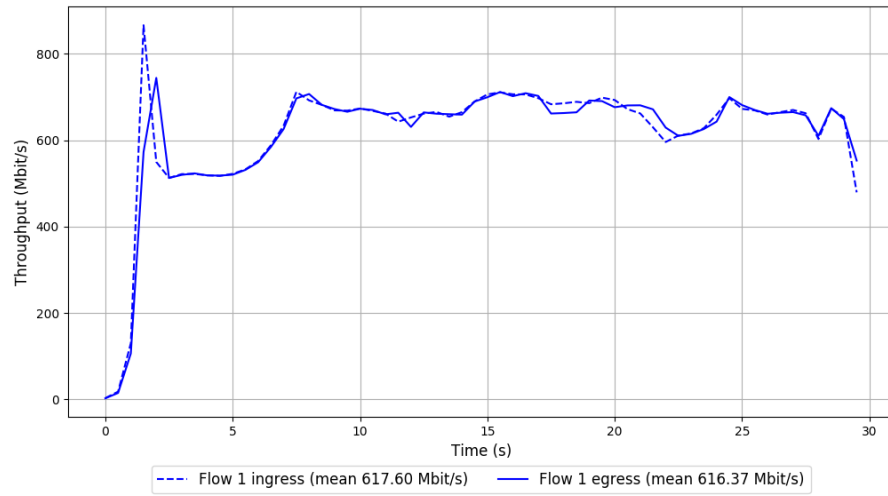
-- Flow 1:

Average throughput: 616.37 Mbit/s

95th percentile per-packet one-way delay: 113.079 ms

Loss rate: 0.20%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-30 12:34:19

End at: 2017-11-30 12:34:49

Below is generated by plot.py at 2017-11-30 14:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.97 Mbit/s

95th percentile per-packet one-way delay: 86.185 ms

Loss rate: 0.19%

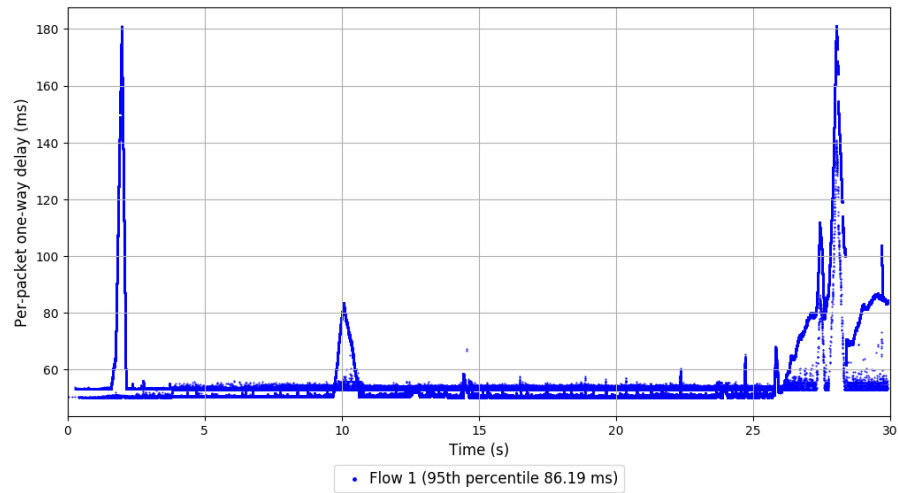
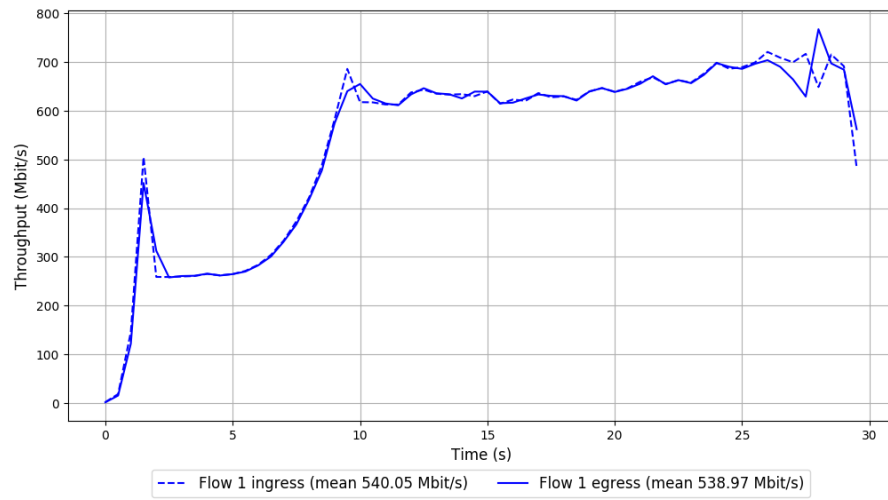
-- Flow 1:

Average throughput: 538.97 Mbit/s

95th percentile per-packet one-way delay: 86.185 ms

Loss rate: 0.19%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-11-30 12:44:20

End at: 2017-11-30 12:44:50

Below is generated by plot.py at 2017-11-30 14:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 603.41 Mbit/s

95th percentile per-packet one-way delay: 60.376 ms

Loss rate: 0.21%

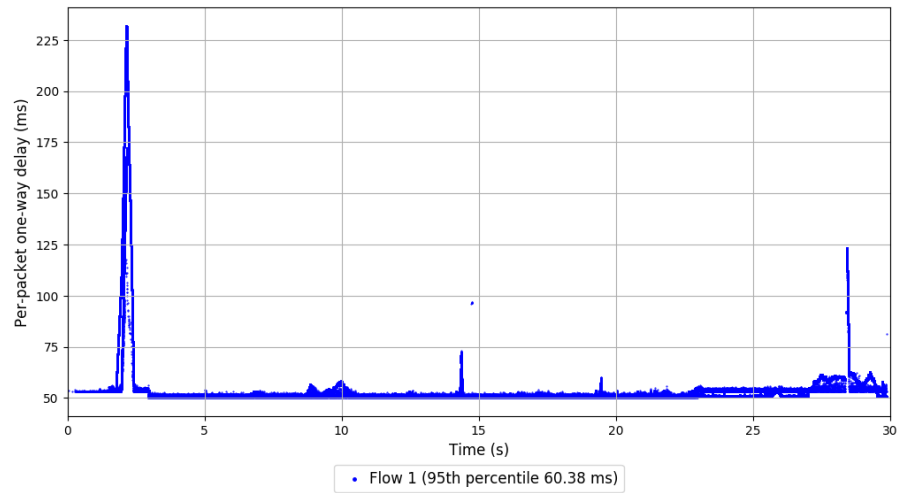
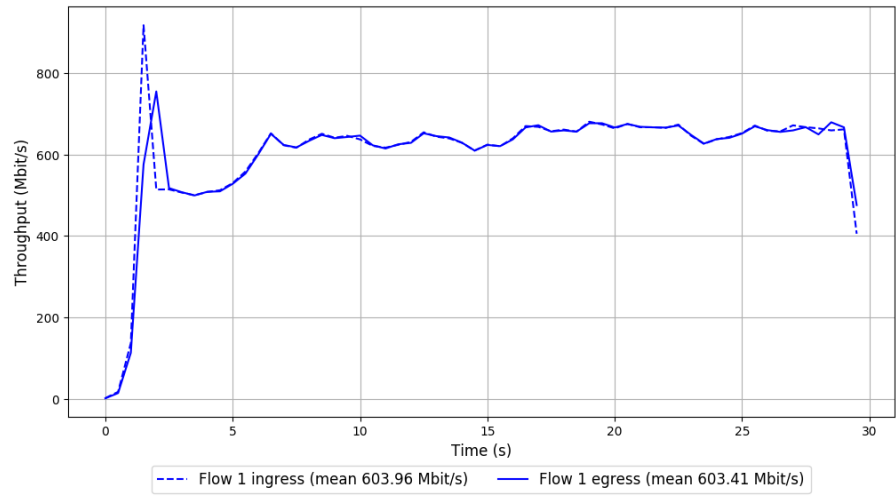
-- Flow 1:

Average throughput: 603.41 Mbit/s

95th percentile per-packet one-way delay: 60.376 ms

Loss rate: 0.21%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-11-30 12:54:49

End at: 2017-11-30 12:55:19

Below is generated by plot.py at 2017-11-30 14:45:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.48 Mbit/s

95th percentile per-packet one-way delay: 95.211 ms

Loss rate: 0.70%

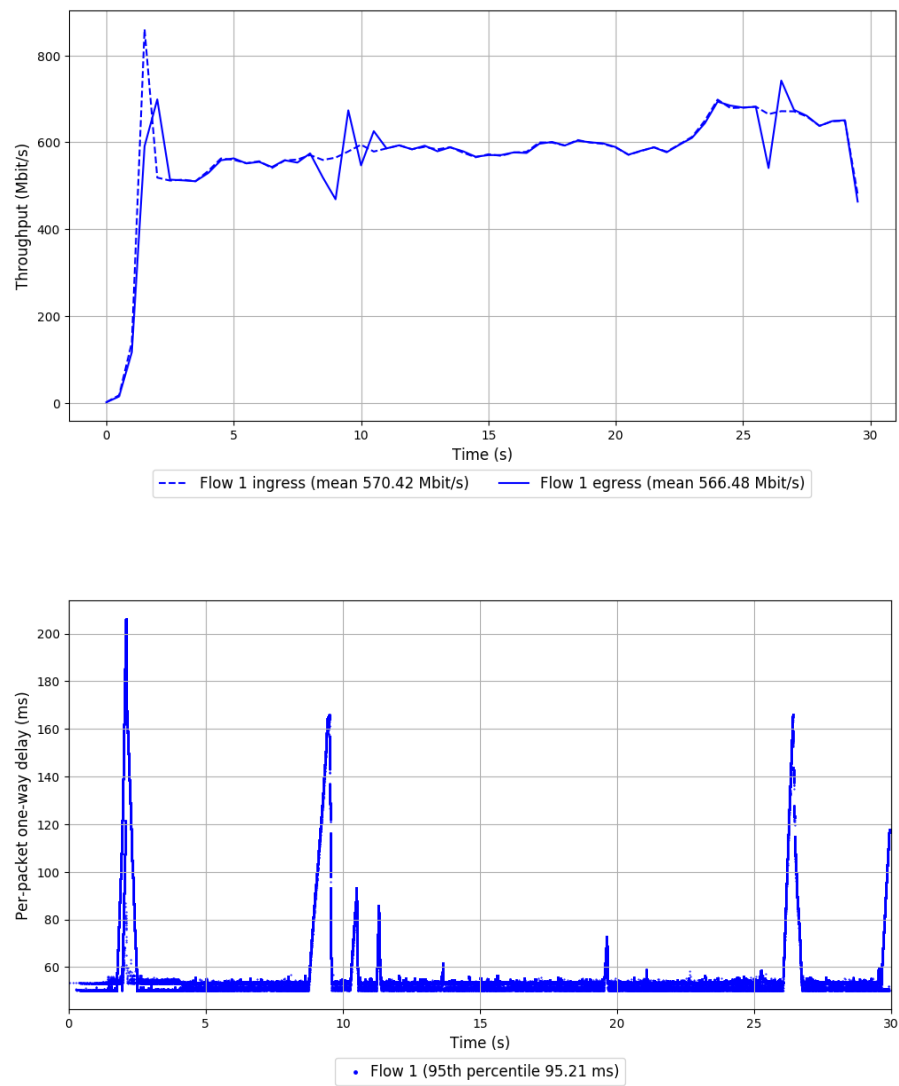
-- Flow 1:

Average throughput: 566.48 Mbit/s

95th percentile per-packet one-way delay: 95.211 ms

Loss rate: 0.70%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-11-30 13:05:12

End at: 2017-11-30 13:05:42

Below is generated by plot.py at 2017-11-30 14:45:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 616.37 Mbit/s

95th percentile per-packet one-way delay: 79.716 ms

Loss rate: 0.22%

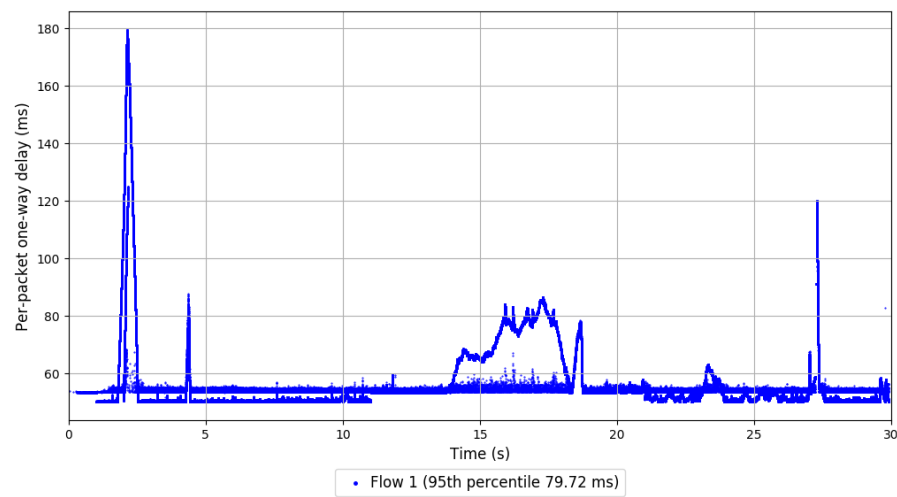
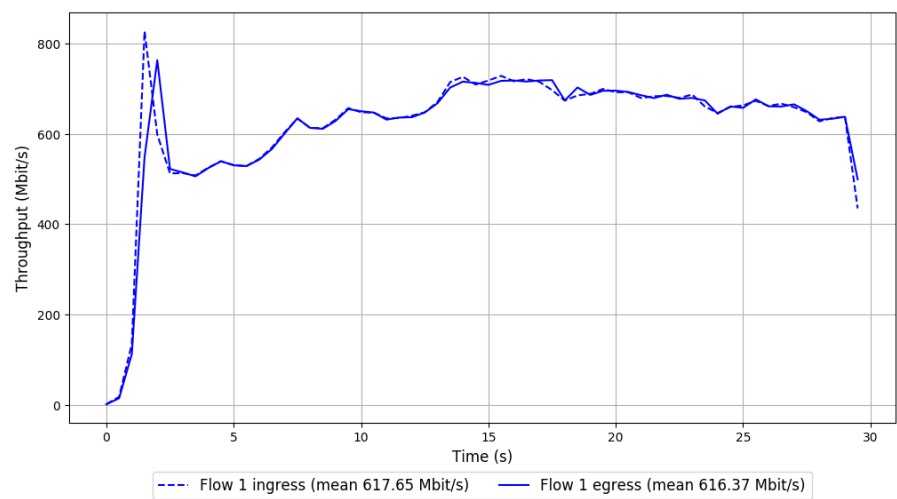
-- Flow 1:

Average throughput: 616.37 Mbit/s

95th percentile per-packet one-way delay: 79.716 ms

Loss rate: 0.22%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-30 13:15:29

End at: 2017-11-30 13:15:59

Below is generated by plot.py at 2017-11-30 14:45:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 601.68 Mbit/s

95th percentile per-packet one-way delay: 68.007 ms

Loss rate: 0.14%

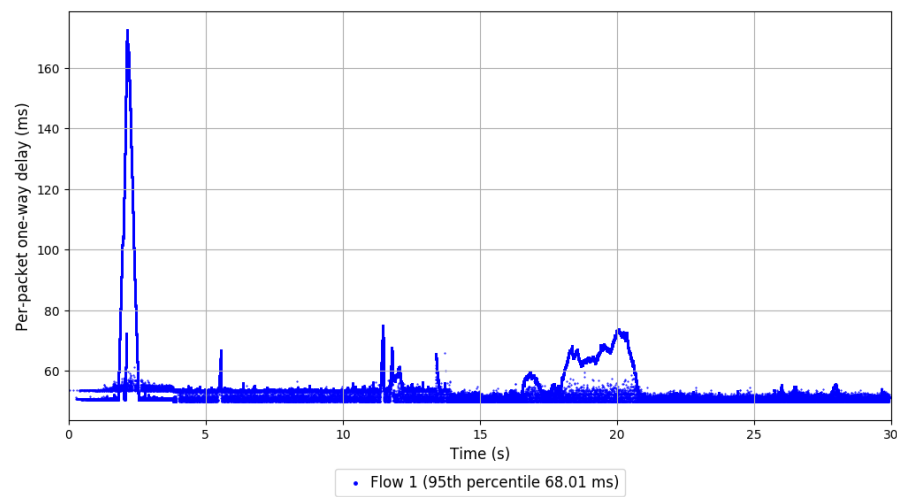
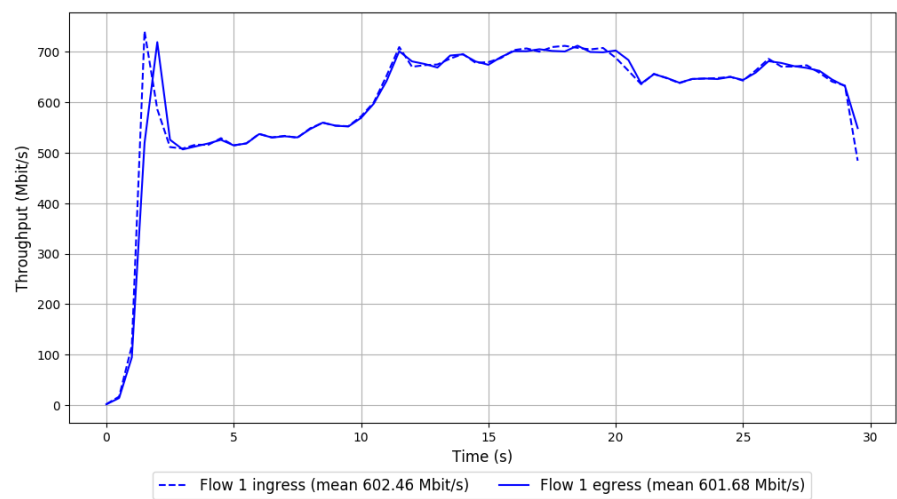
-- Flow 1:

Average throughput: 601.68 Mbit/s

95th percentile per-packet one-way delay: 68.007 ms

Loss rate: 0.14%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-11-30 13:25:44

End at: 2017-11-30 13:26:14

Below is generated by plot.py at 2017-11-30 14:55:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 619.69 Mbit/s

95th percentile per-packet one-way delay: 161.745 ms

Loss rate: 0.96%

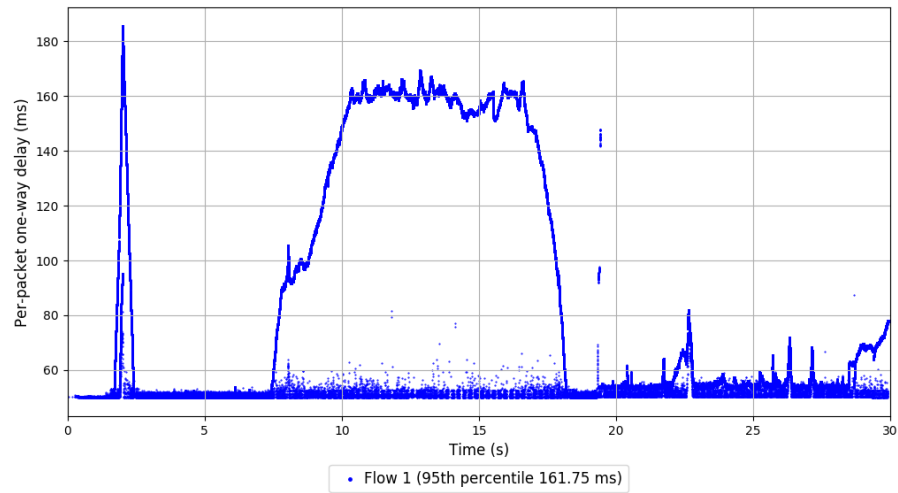
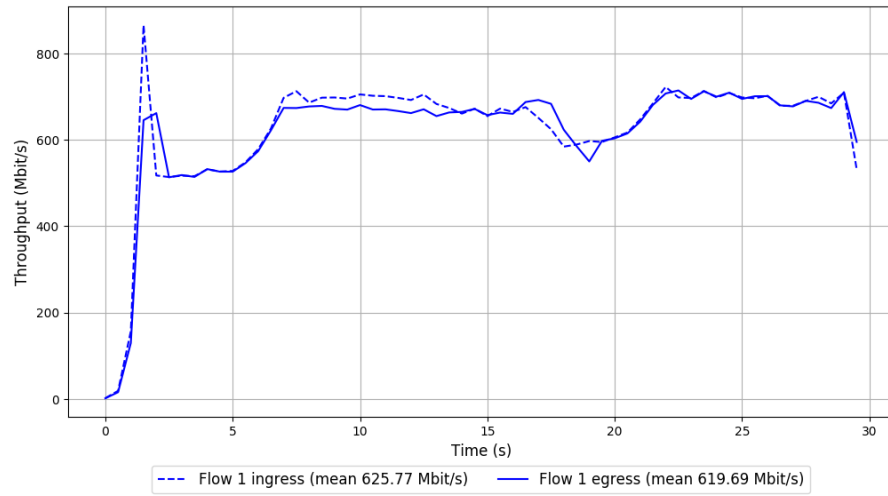
-- Flow 1:

Average throughput: 619.69 Mbit/s

95th percentile per-packet one-way delay: 161.745 ms

Loss rate: 0.96%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-11-30 13:35:50

End at: 2017-11-30 13:36:20

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 611.08 Mbit/s

95th percentile per-packet one-way delay: 147.202 ms

Loss rate: 0.33%

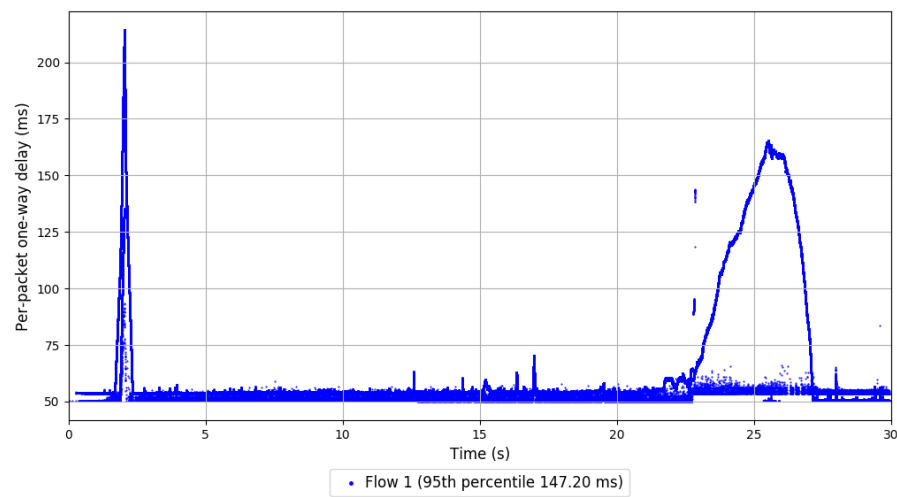
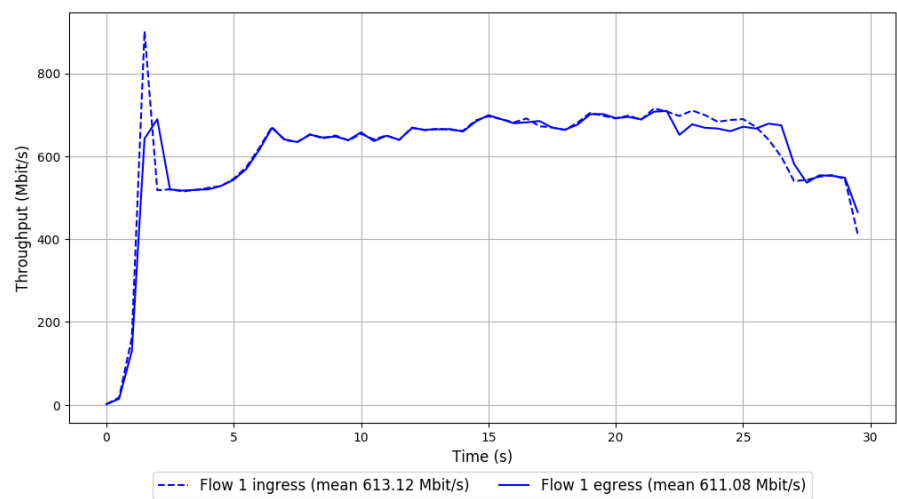
-- Flow 1:

Average throughput: 611.08 Mbit/s

95th percentile per-packet one-way delay: 147.202 ms

Loss rate: 0.33%

Run 10: Report of PCC — Data Link

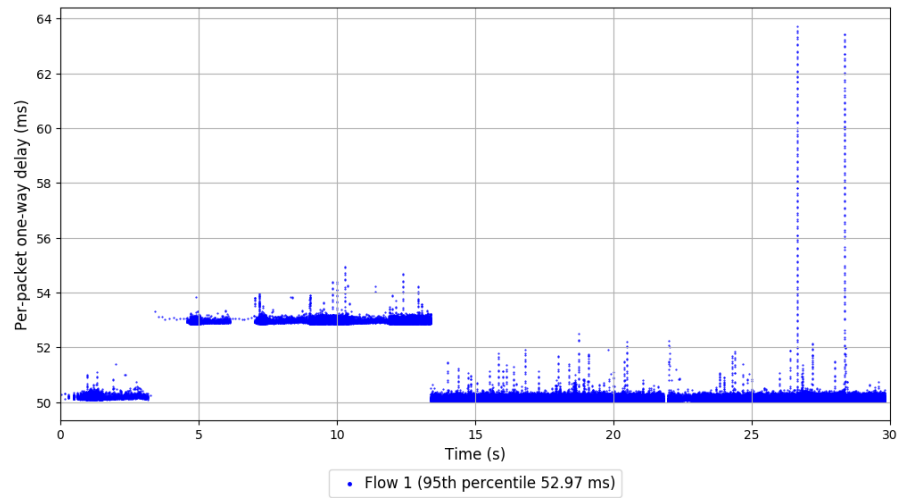
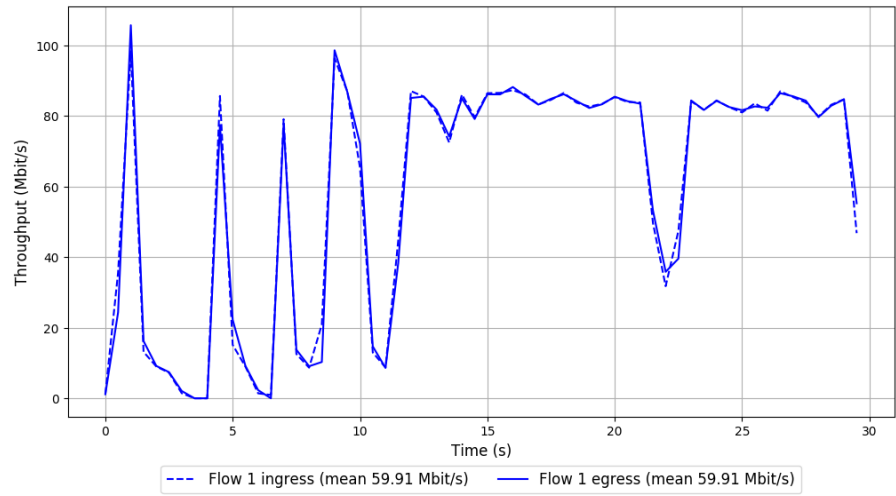


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 12:08:00
End at: 2017-11-30 12:08:30

# Below is generated by plot.py at 2017-11-30 14:55:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.91 Mbit/s
95th percentile per-packet one-way delay: 52.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 59.91 Mbit/s
95th percentile per-packet one-way delay: 52.974 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 12:18:30

End at: 2017-11-30 12:19:00

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 50.459 ms

Loss rate: 0.00%

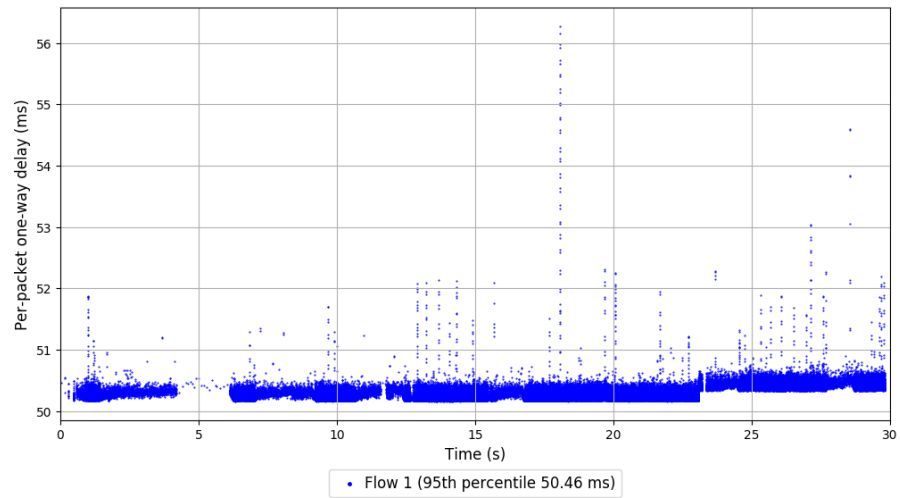
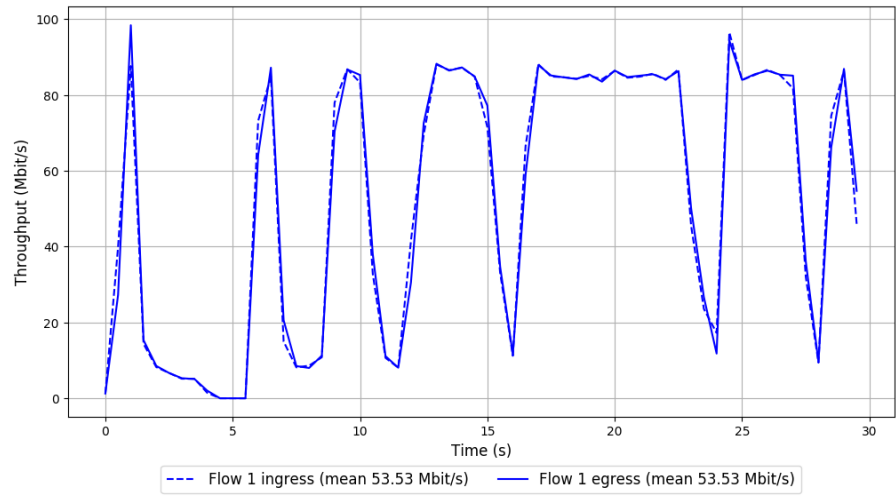
-- Flow 1:

Average throughput: 53.53 Mbit/s

95th percentile per-packet one-way delay: 50.459 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 12:28:47

End at: 2017-11-30 12:29:17

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.97 Mbit/s

95th percentile per-packet one-way delay: 53.036 ms

Loss rate: 0.00%

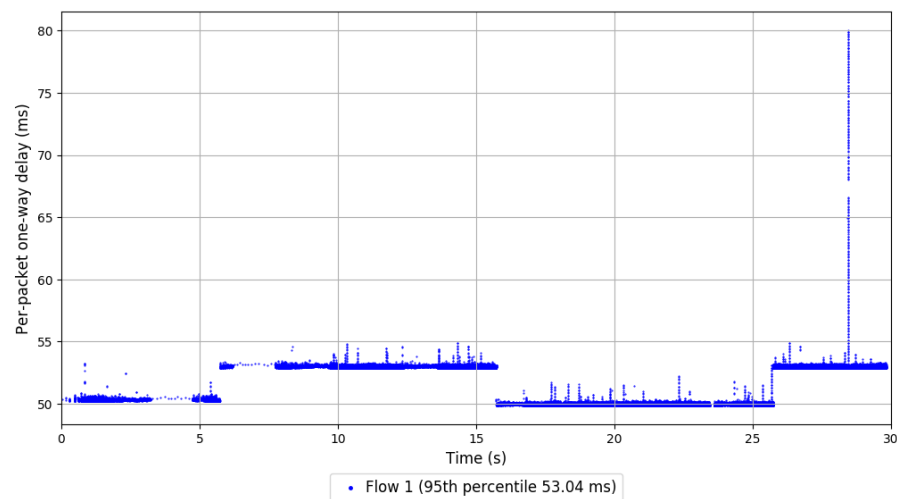
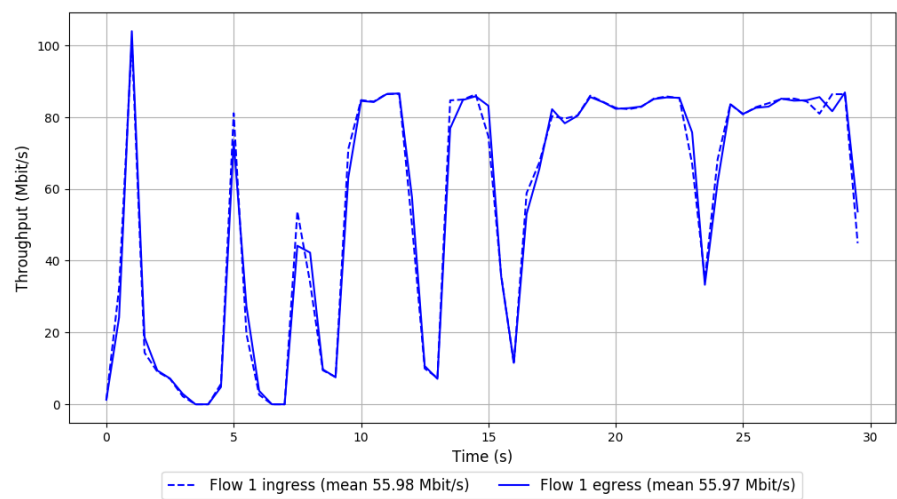
-- Flow 1:

Average throughput: 55.97 Mbit/s

95th percentile per-packet one-way delay: 53.036 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

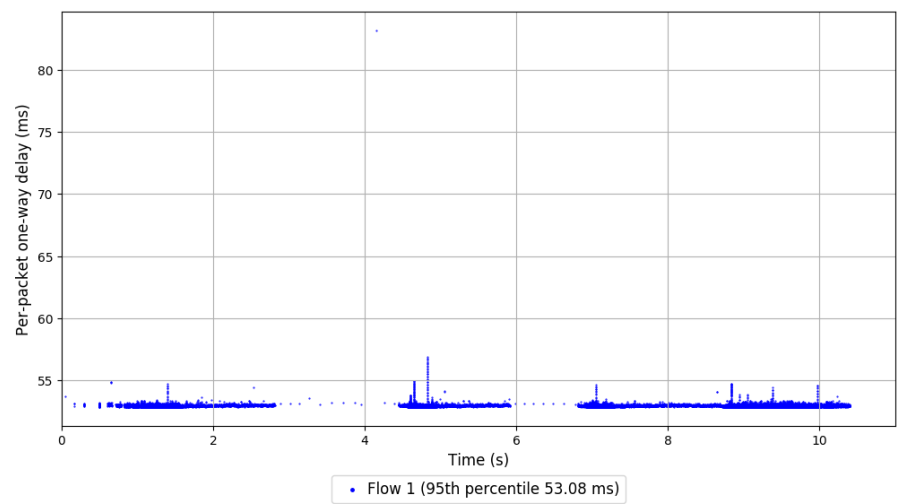
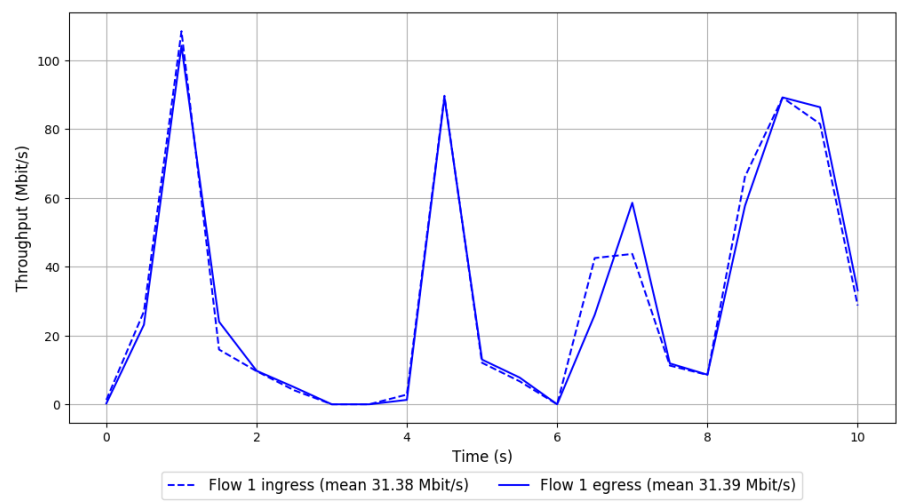


Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 12:38:57

End at: 2017-11-30 12:39:28

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 12:49:22

End at: 2017-11-30 12:49:52

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.01 Mbit/s

95th percentile per-packet one-way delay: 53.014 ms

Loss rate: 0.00%

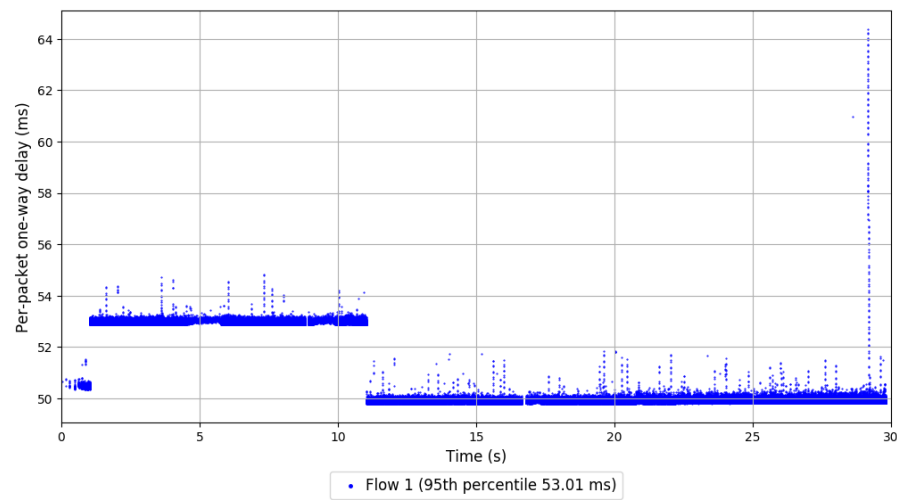
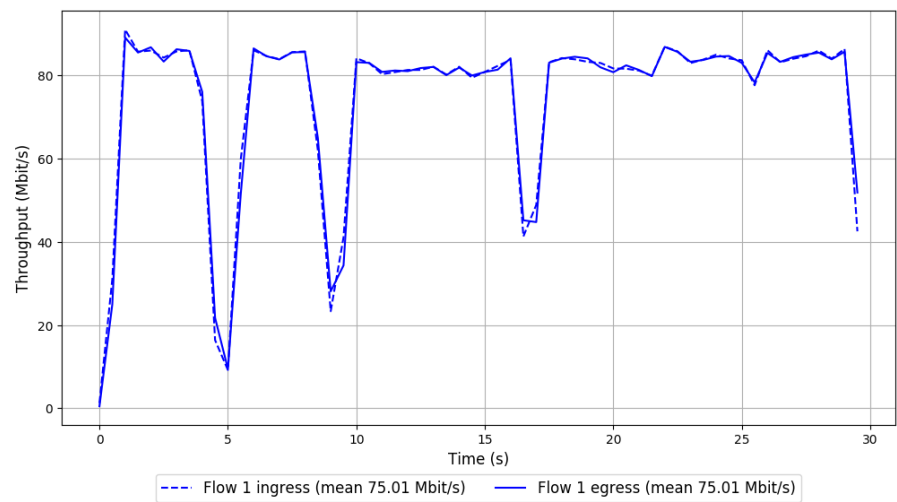
-- Flow 1:

Average throughput: 75.01 Mbit/s

95th percentile per-packet one-way delay: 53.014 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 12:59:47

End at: 2017-11-30 13:00:17

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 50.580 ms

Loss rate: 0.00%

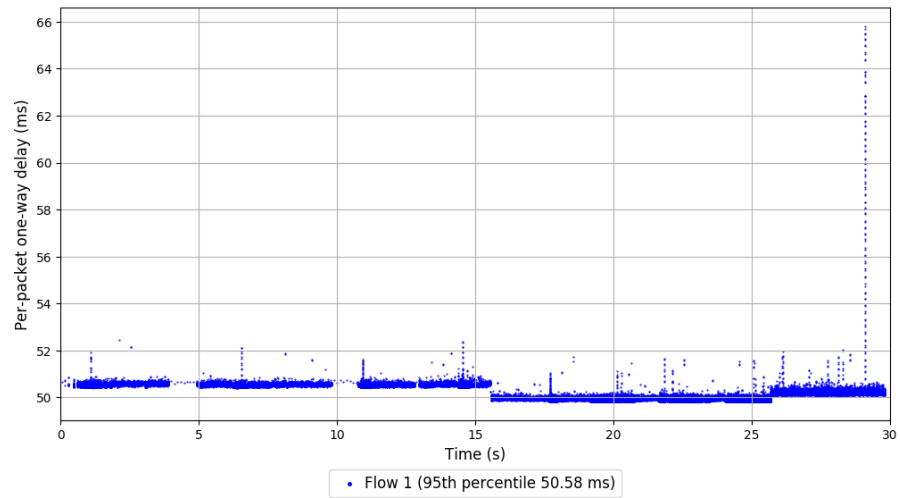
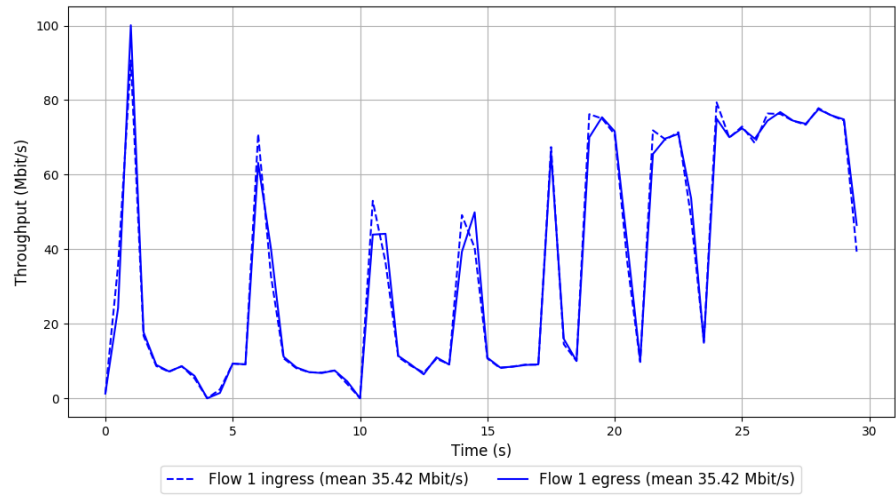
-- Flow 1:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 50.580 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 13:10:04

End at: 2017-11-30 13:10:34

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.35 Mbit/s

95th percentile per-packet one-way delay: 53.597 ms

Loss rate: 0.01%

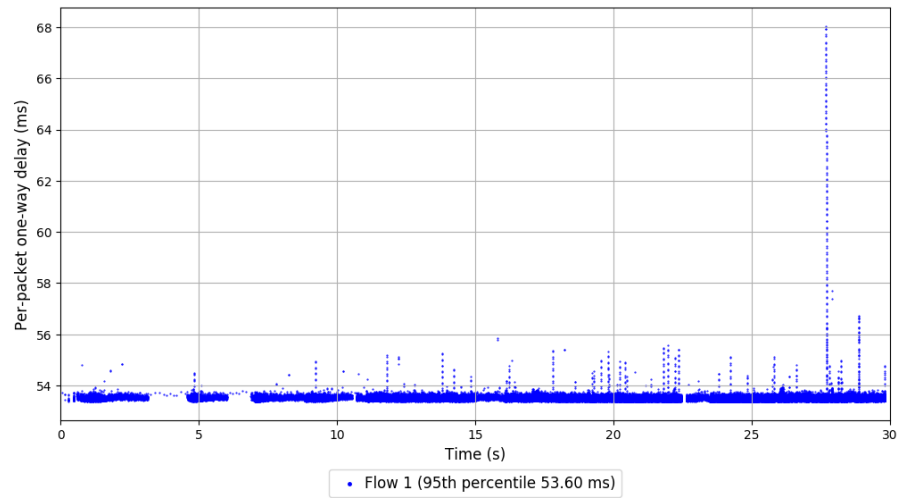
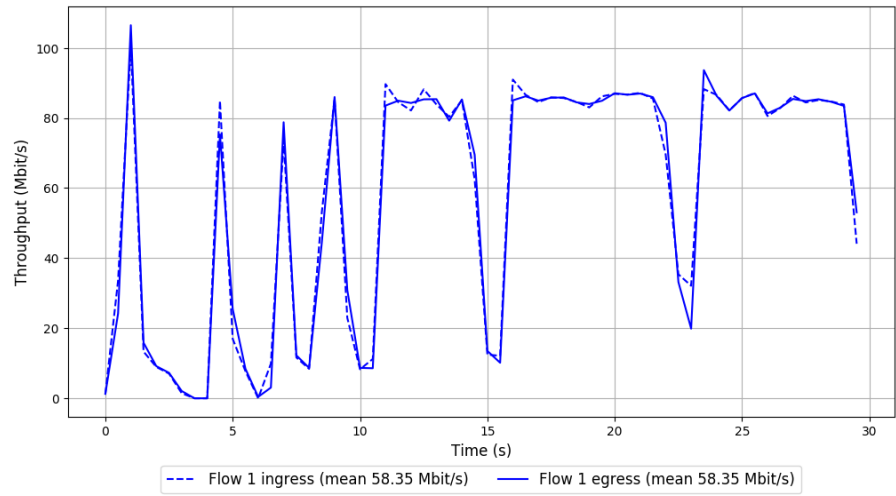
-- Flow 1:

Average throughput: 58.35 Mbit/s

95th percentile per-packet one-way delay: 53.597 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 13:20:12

End at: 2017-11-30 13:20:42

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.98 Mbit/s

95th percentile per-packet one-way delay: 53.303 ms

Loss rate: 0.01%

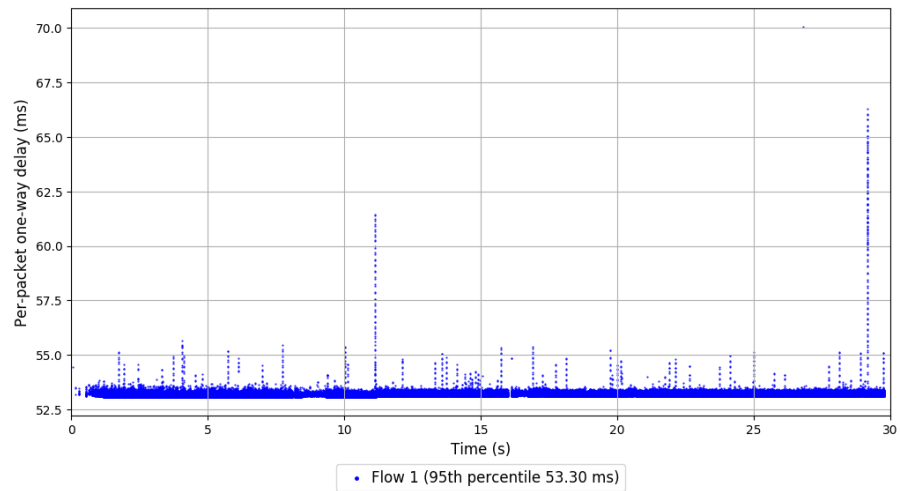
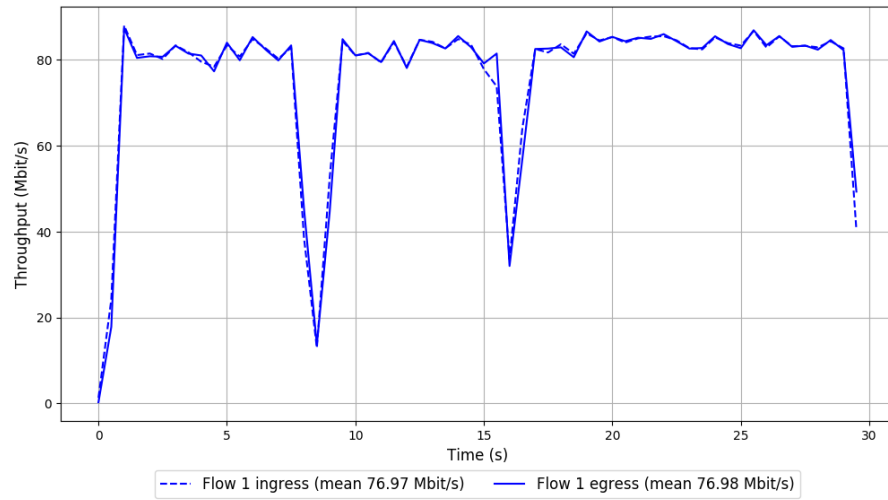
-- Flow 1:

Average throughput: 76.98 Mbit/s

95th percentile per-packet one-way delay: 53.303 ms

Loss rate: 0.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 13:30:24

End at: 2017-11-30 13:30:54

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.30 Mbit/s

95th percentile per-packet one-way delay: 53.474 ms

Loss rate: 0.00%

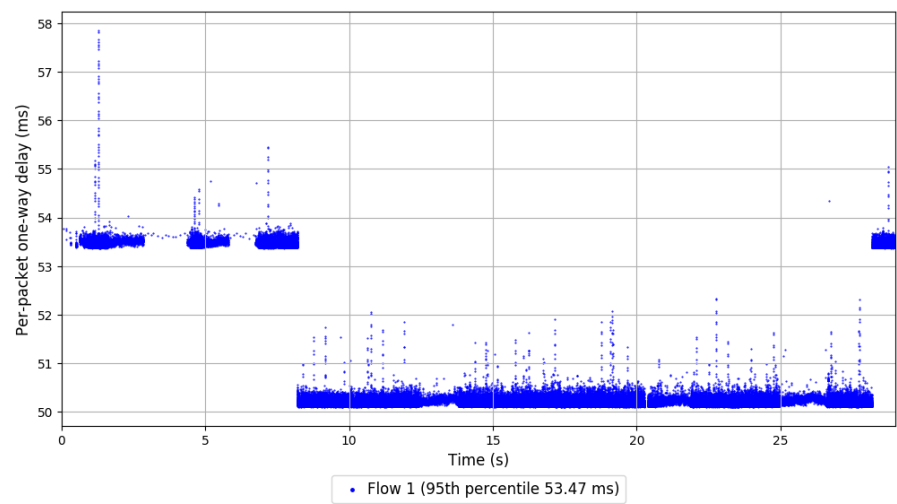
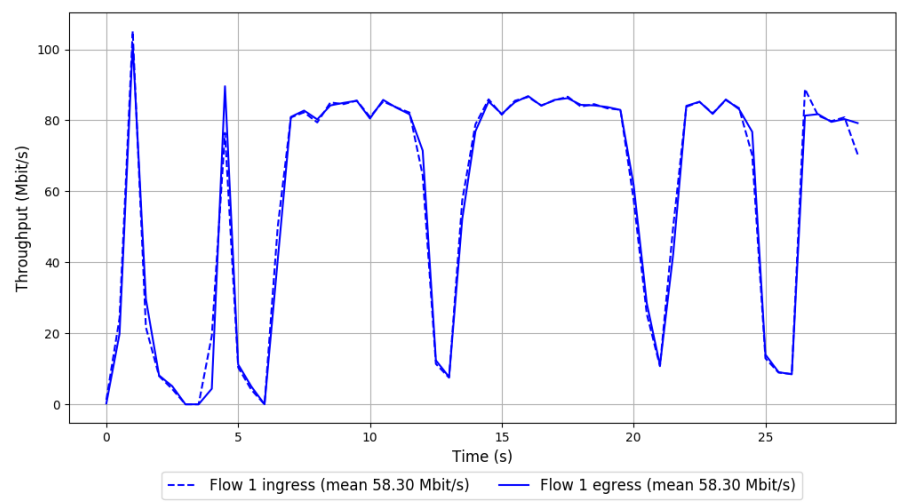
-- Flow 1:

Average throughput: 58.30 Mbit/s

95th percentile per-packet one-way delay: 53.474 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

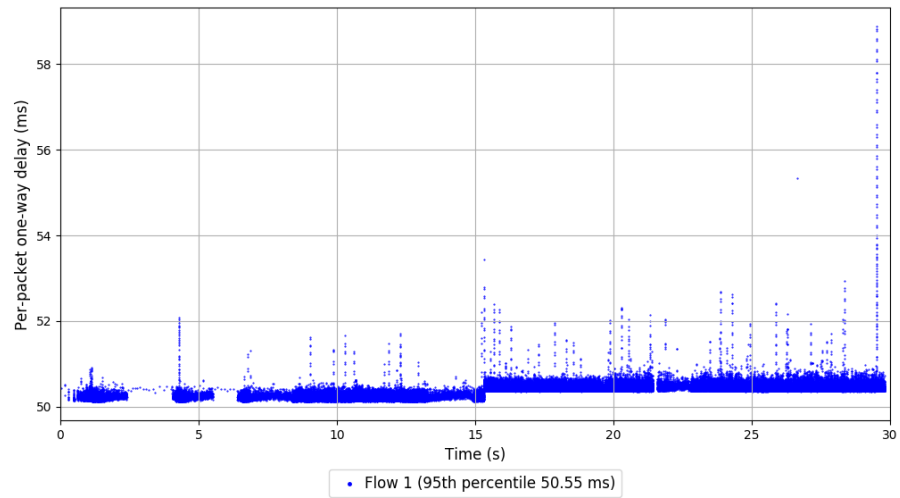
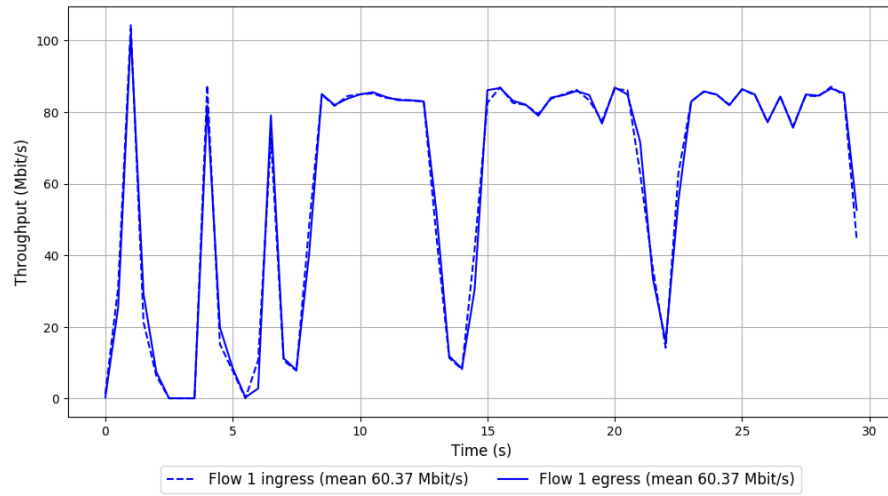


```
Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 13:40:48
End at: 2017-11-30 13:41:18

# Below is generated by plot.py at 2017-11-30 14:55:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 50.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 50.546 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

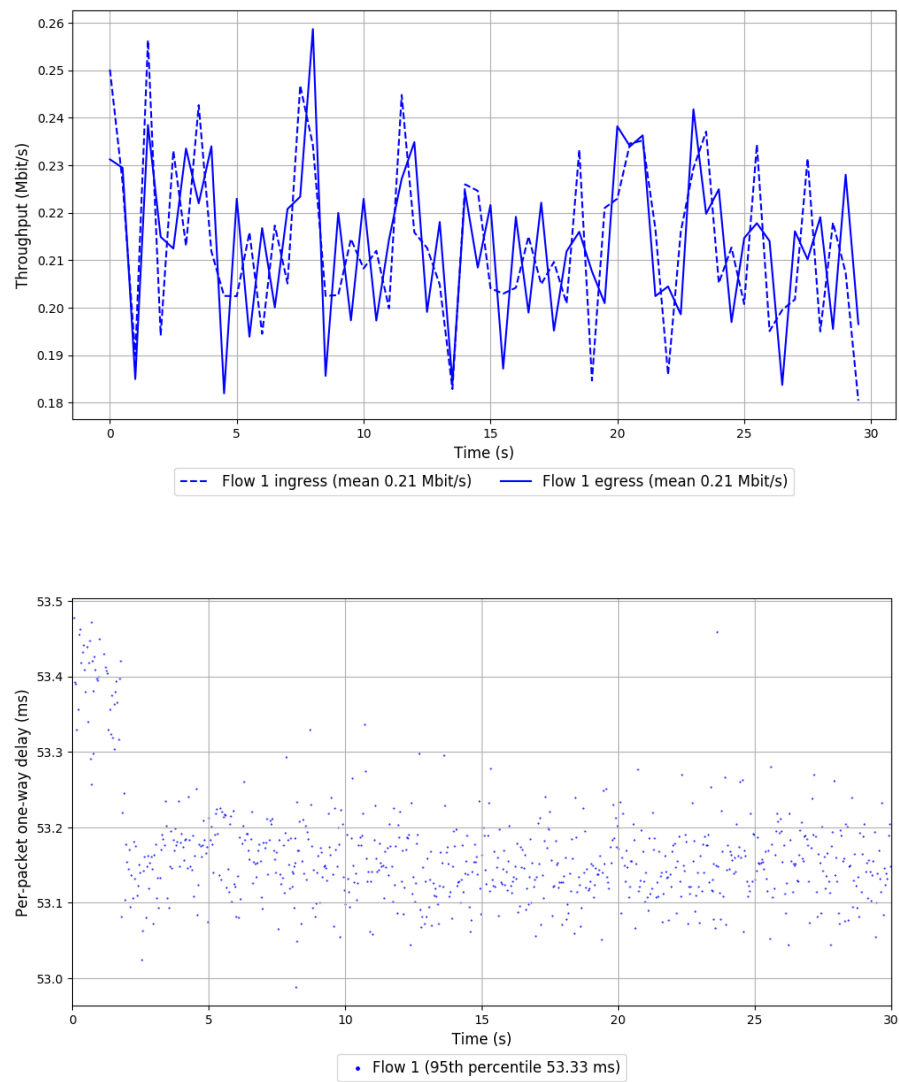


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 11:59:51
End at: 2017-11-30 12:00:21

# Below is generated by plot.py at 2017-11-30 14:55:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.329 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.329 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

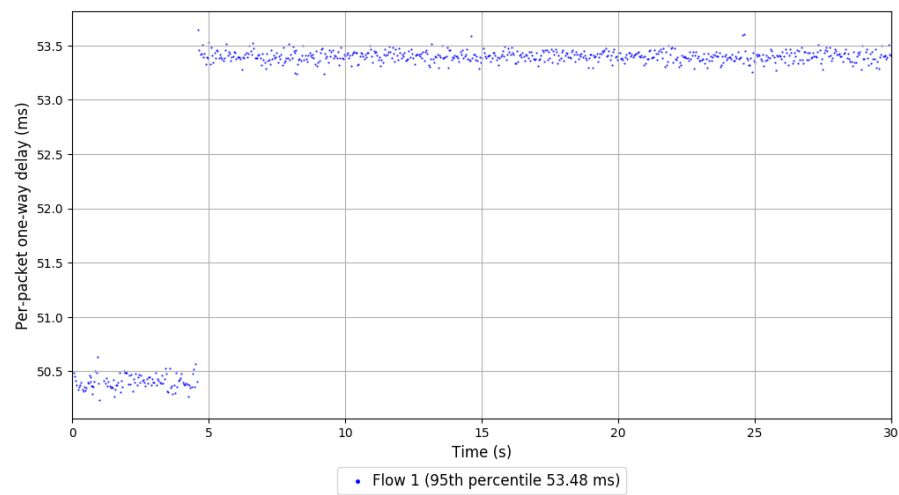
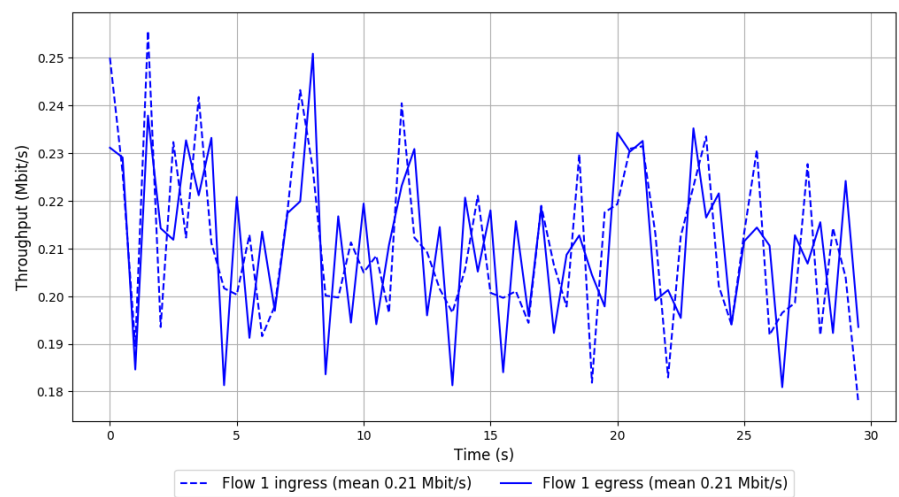


```
Run 2: Statistics of SCReAM

Start at: 2017-11-30 12:09:59
End at: 2017-11-30 12:10:29

# Below is generated by plot.py at 2017-11-30 14:55:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.475 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.475 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-30 12:20:27

End at: 2017-11-30 12:20:57

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.00%

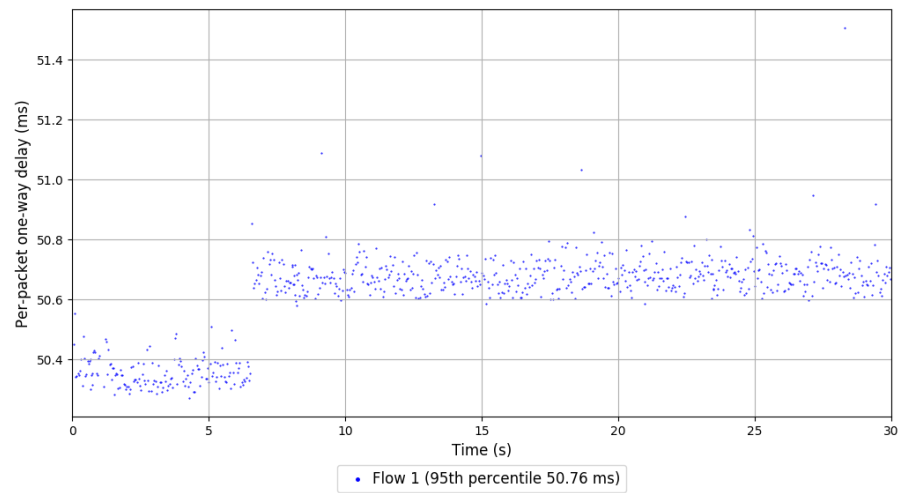
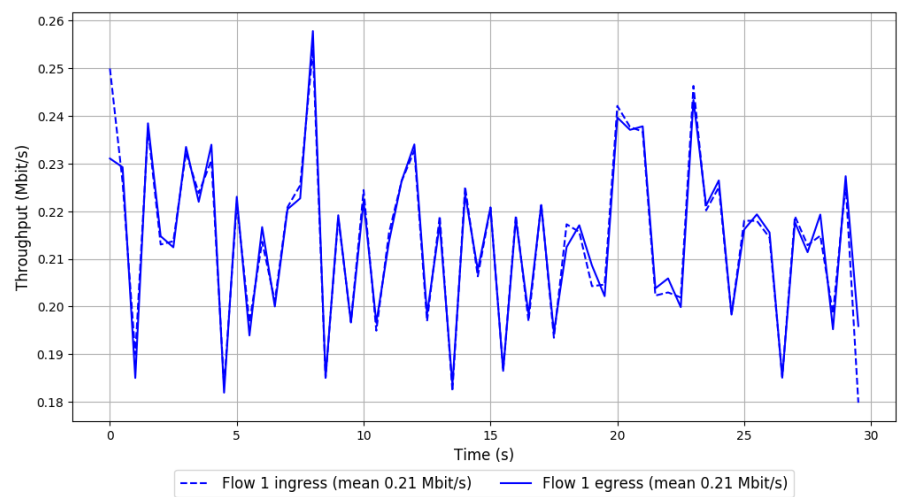
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-30 12:30:49

End at: 2017-11-30 12:31:19

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.00%

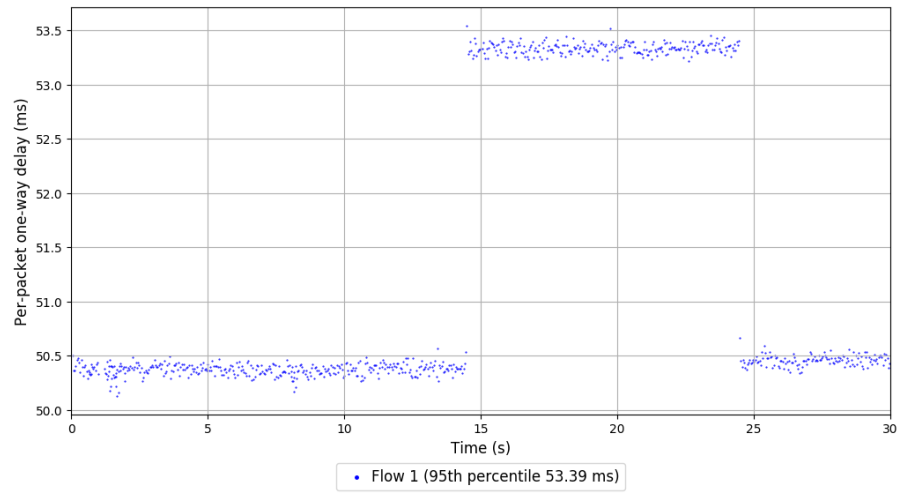
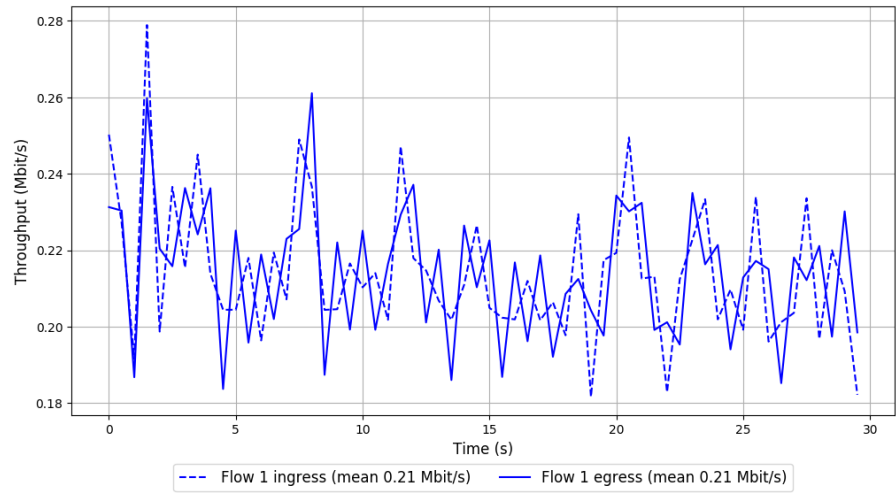
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-11-30 12:40:52

End at: 2017-11-30 12:41:22

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.00%

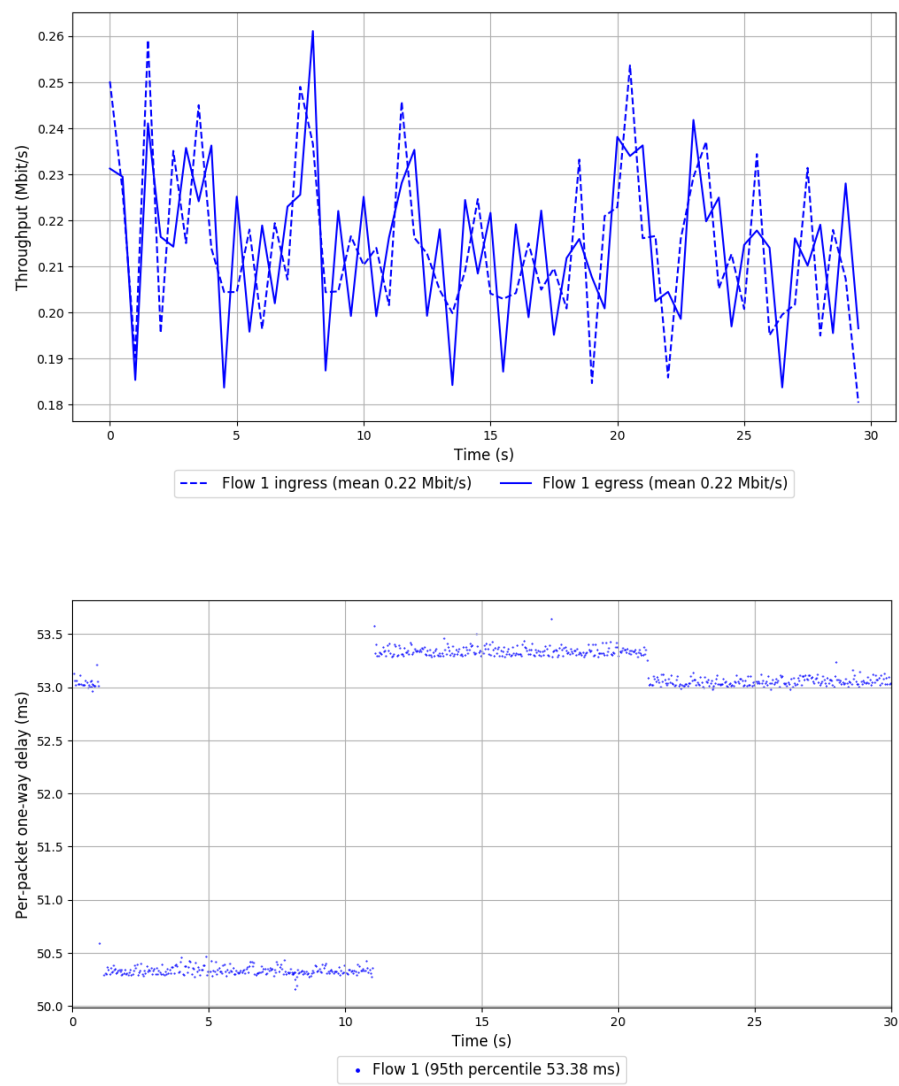
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-11-30 12:51:19

End at: 2017-11-30 12:51:49

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.484 ms

Loss rate: 0.00%

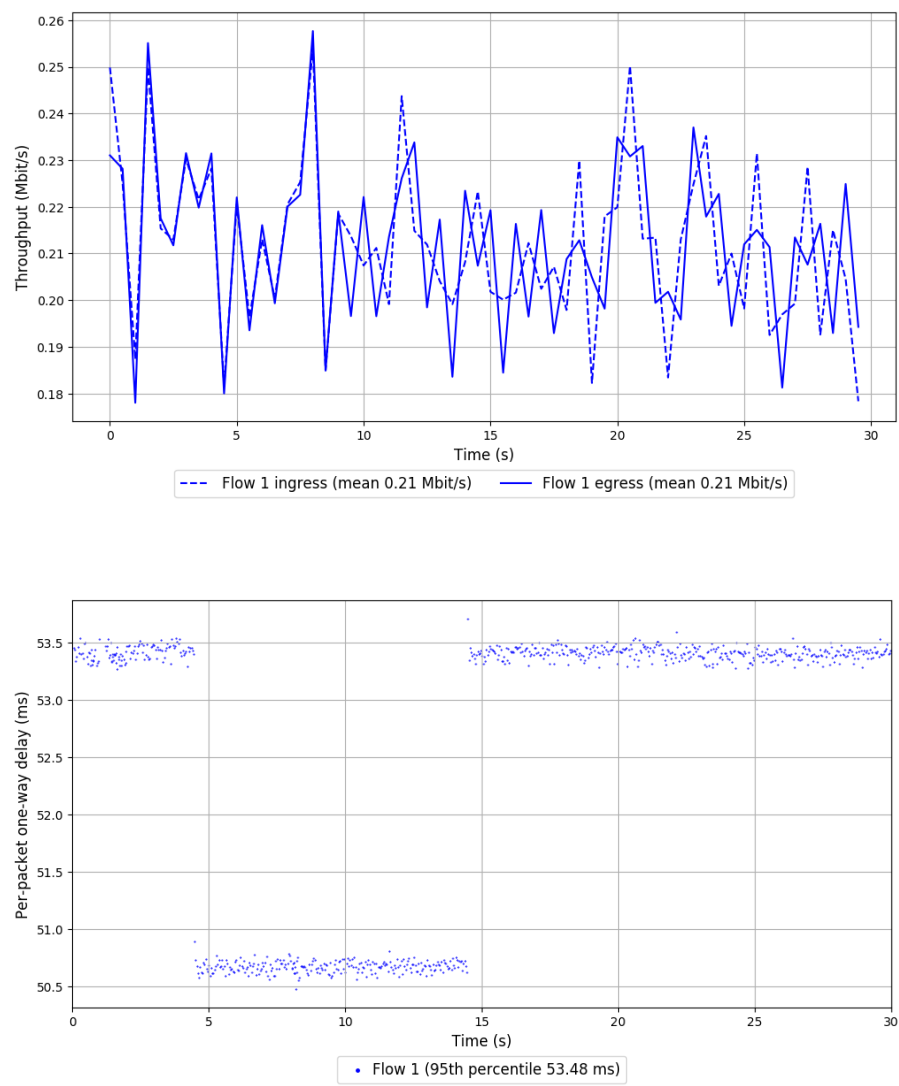
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.484 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-11-30 13:01:42

End at: 2017-11-30 13:02:12

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

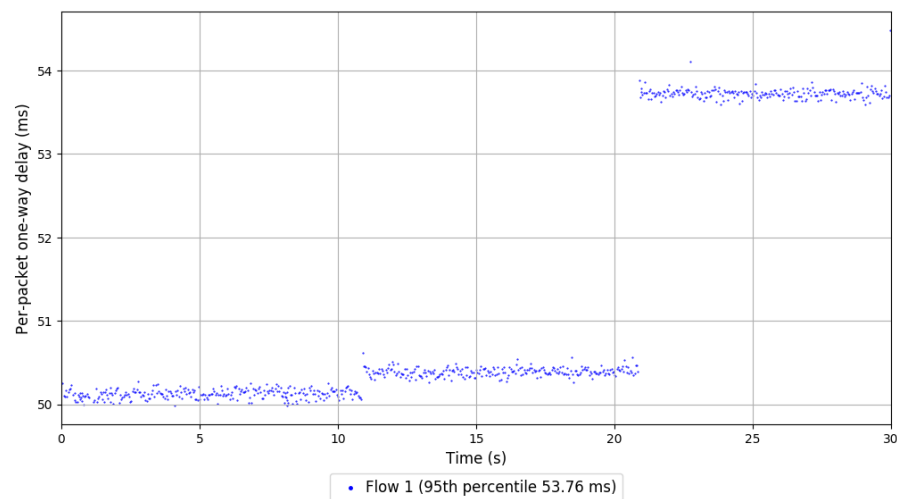
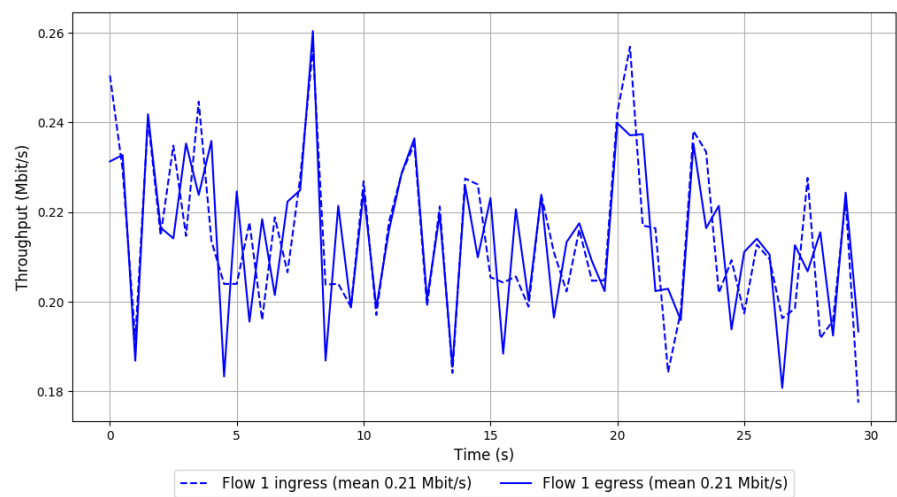
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.762 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-30 13:12:02

End at: 2017-11-30 13:12:32

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.00%

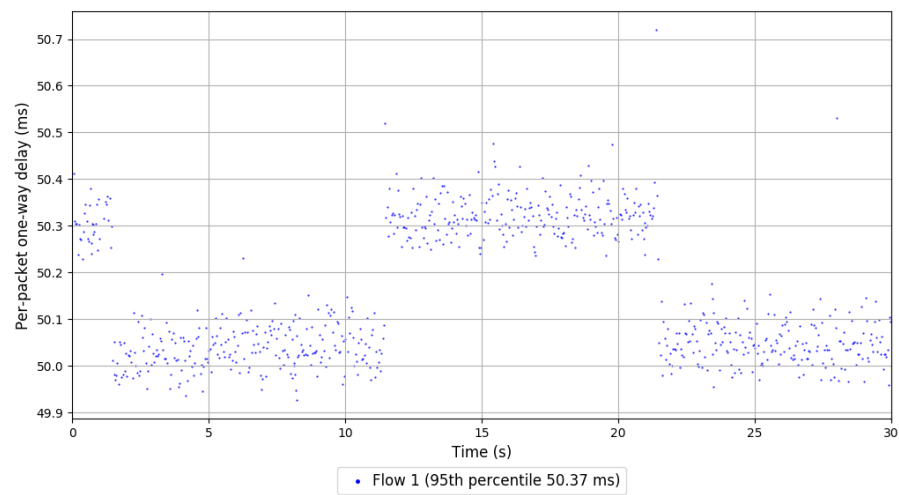
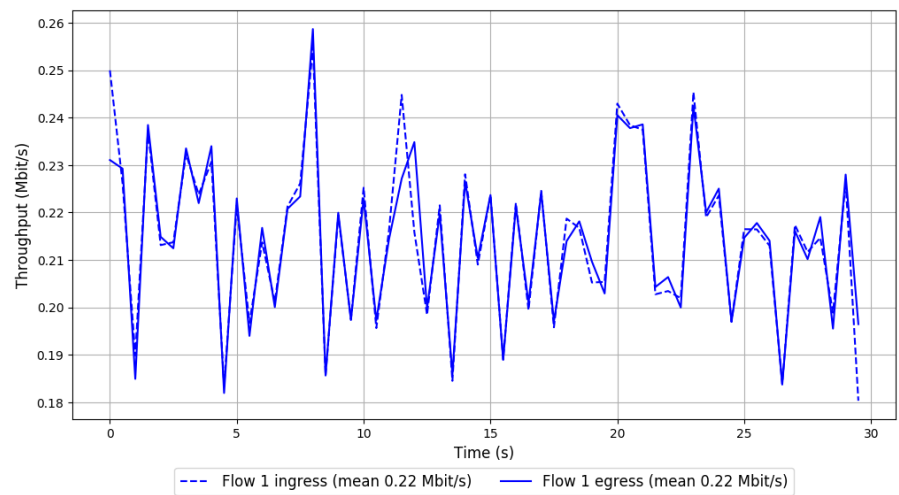
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-30 13:22:12

End at: 2017-11-30 13:22:42

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.00%

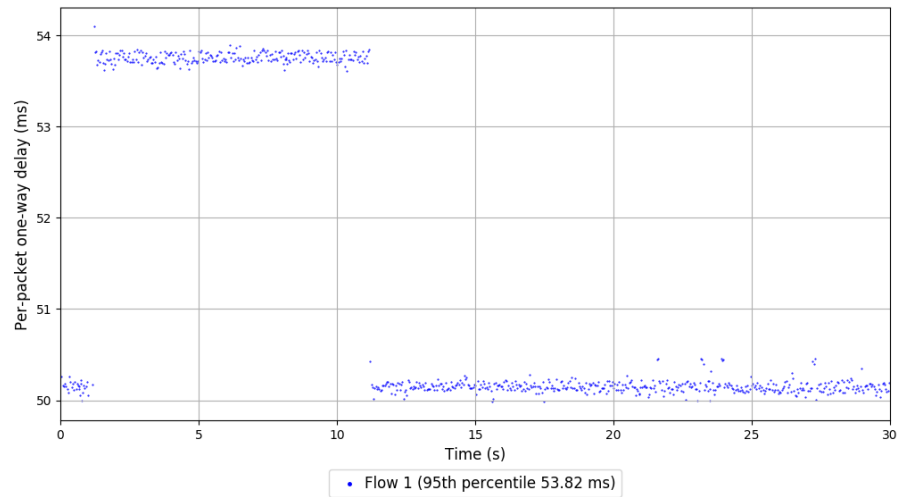
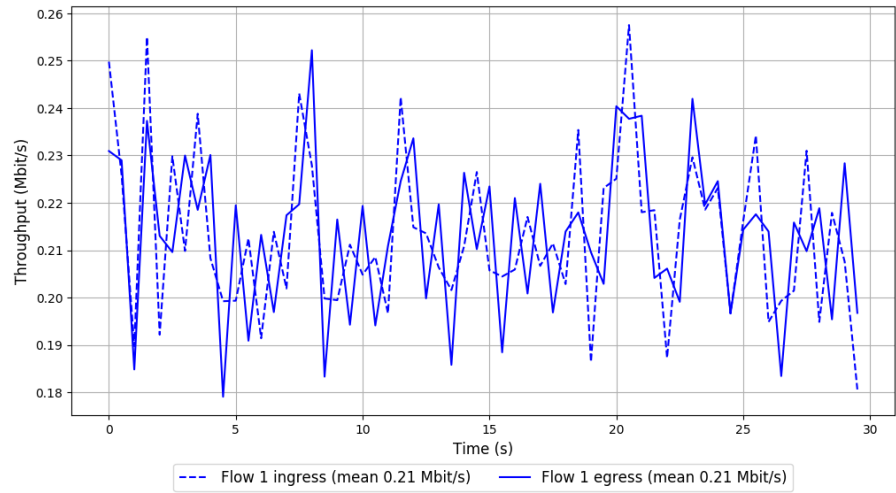
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2017-11-30 13:32:21

End at: 2017-11-30 13:32:51

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 50.454 ms

Loss rate: 0.00%

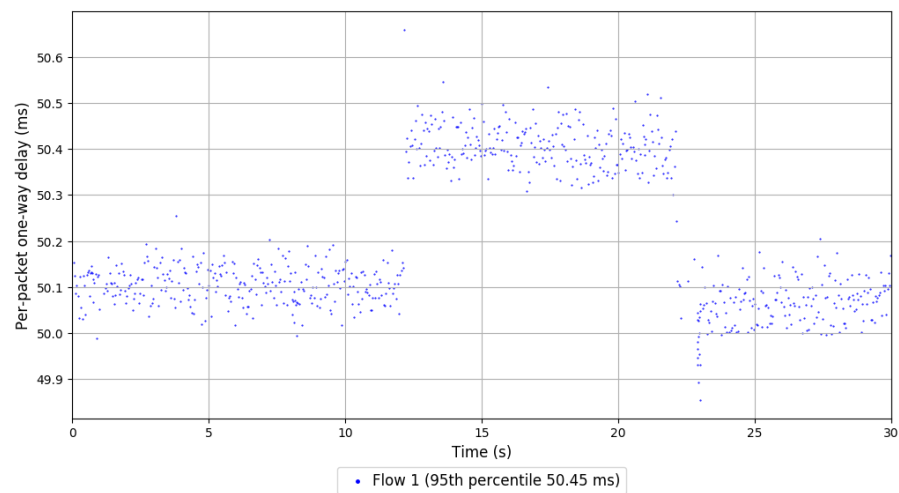
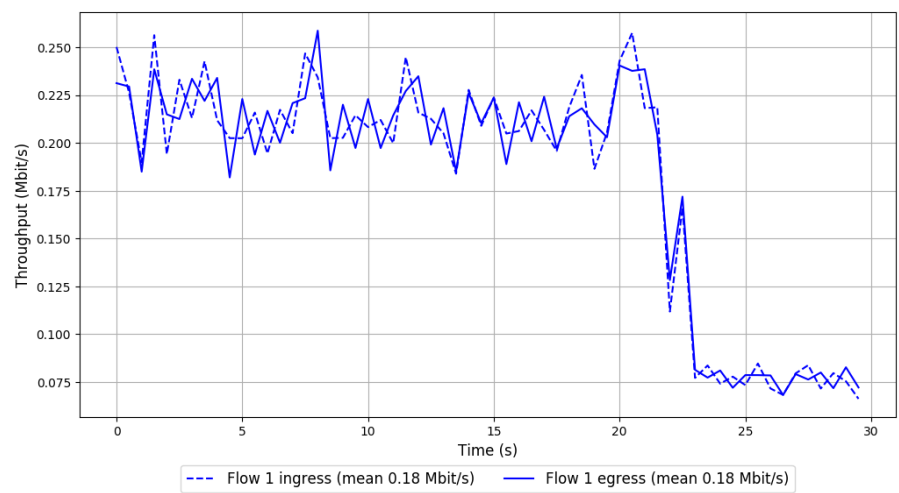
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 50.454 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

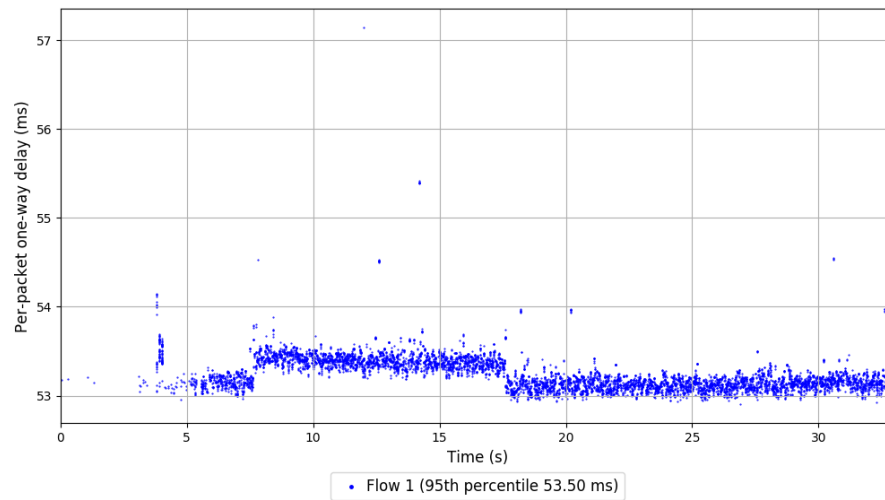
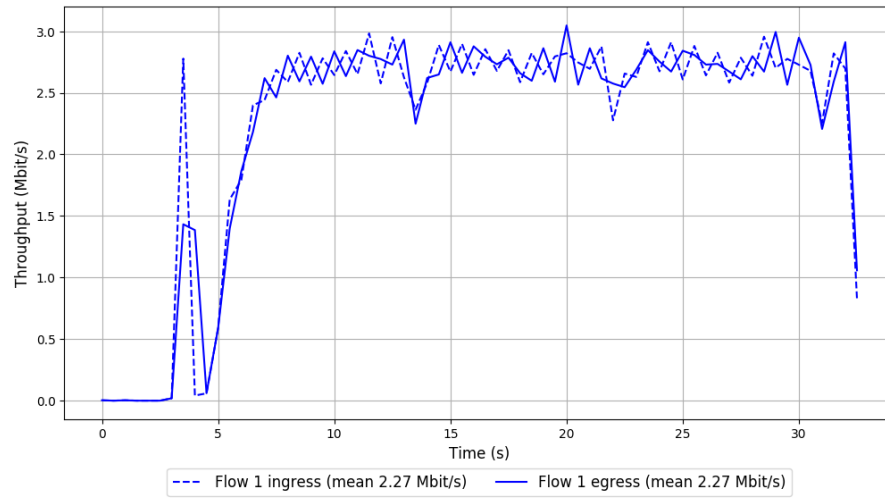


```
Run 1: Statistics of WebRTC media

Start at: 2017-11-30 12:00:28
End at: 2017-11-30 12:00:58

# Below is generated by plot.py at 2017-11-30 14:55:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.496 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.496 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-30 12:10:35

End at: 2017-11-30 12:11:05

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.453 ms

Loss rate: 0.00%

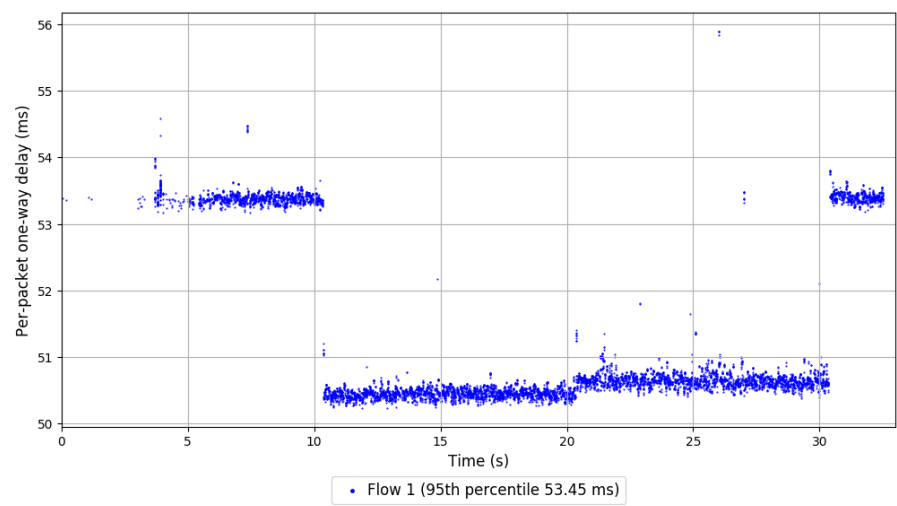
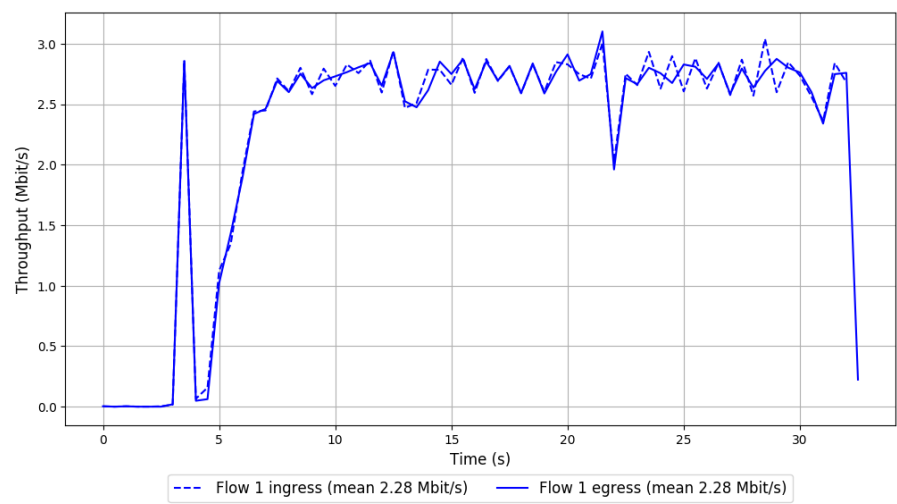
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.453 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-30 12:21:03

End at: 2017-11-30 12:21:33

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.00%

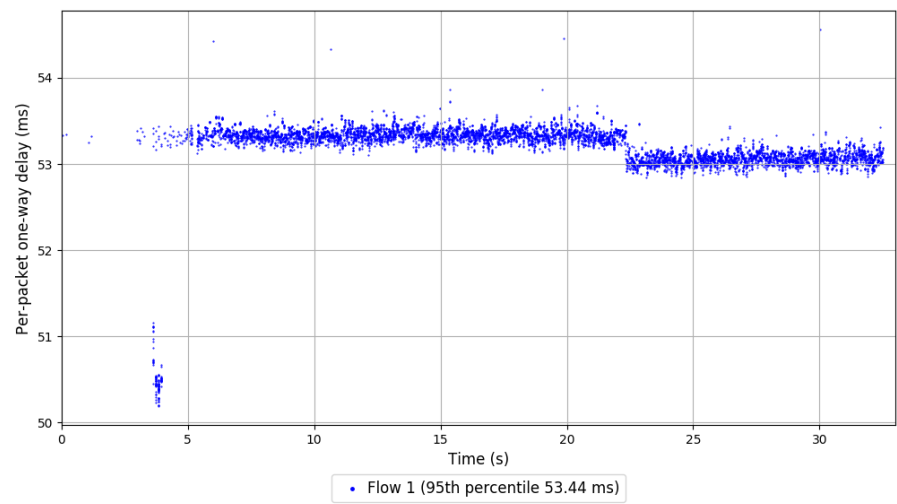
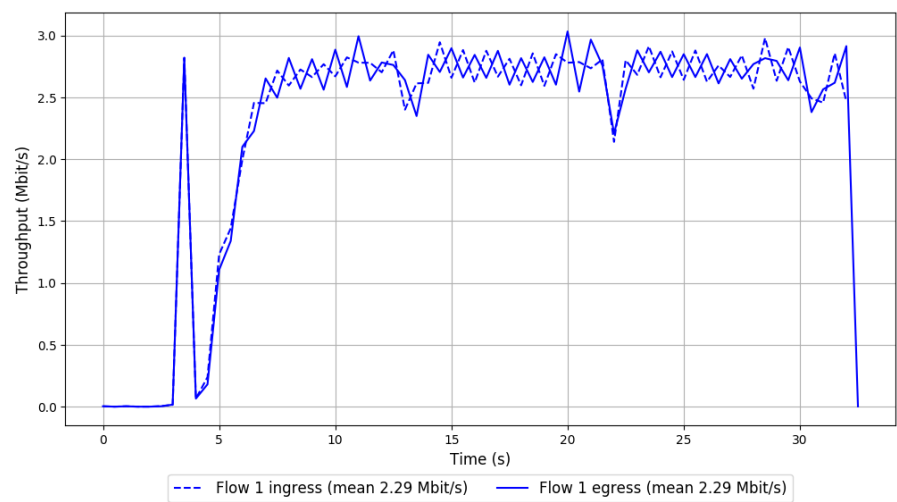
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.444 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-11-30 12:31:26

End at: 2017-11-30 12:31:56

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.735 ms

Loss rate: 0.00%

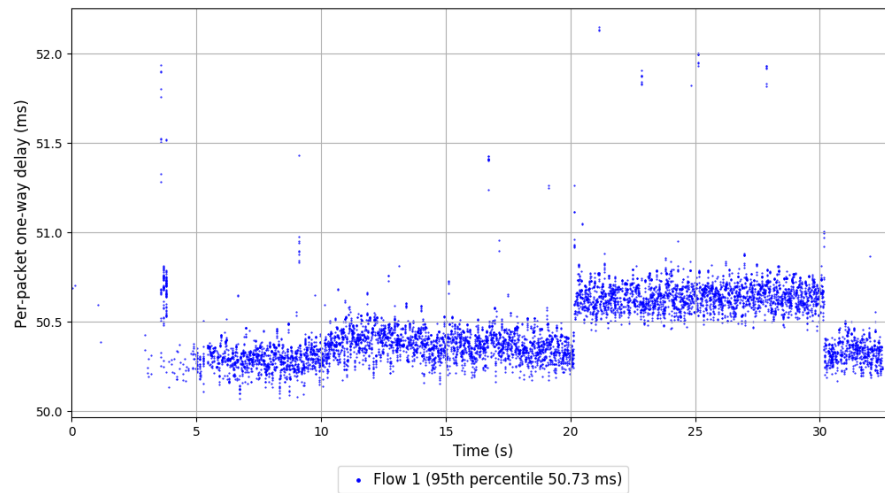
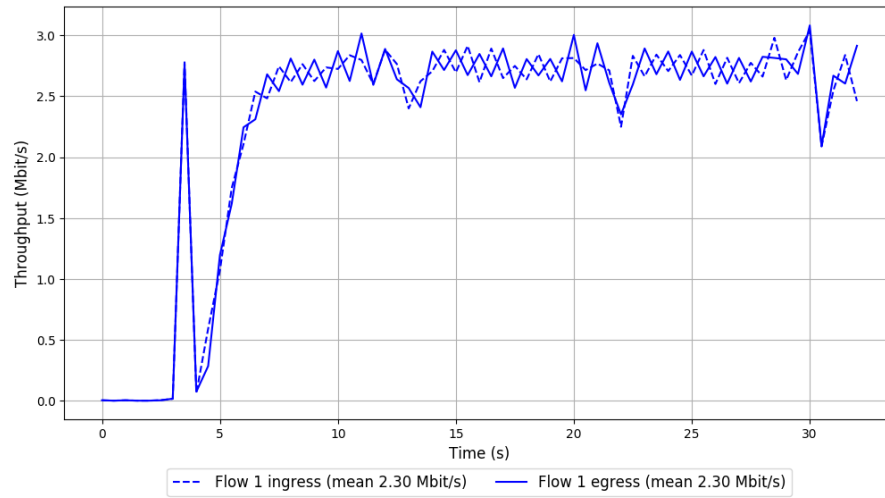
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.735 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 12:41:29

End at: 2017-11-30 12:41:59

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.172 ms

Loss rate: 0.00%

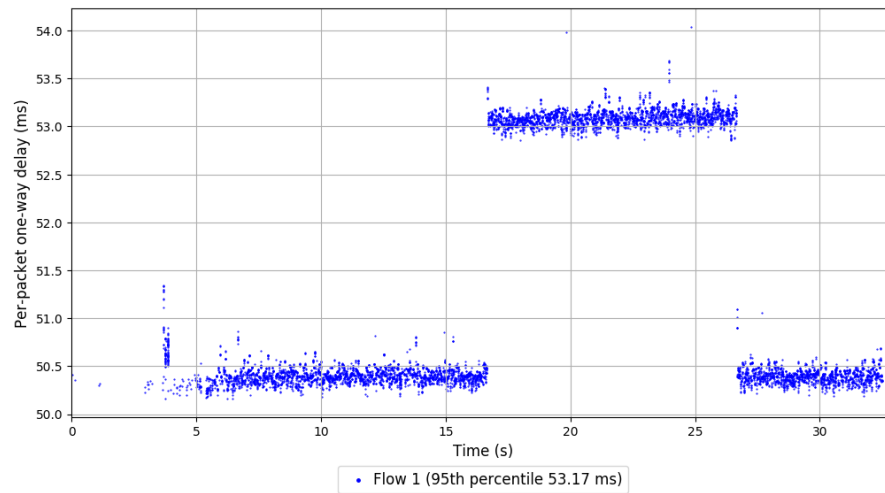
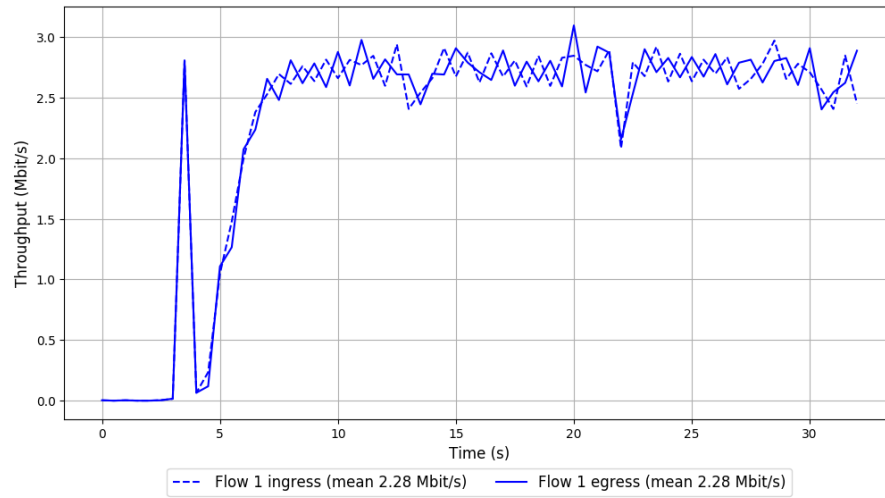
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.172 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-11-30 12:51:56

End at: 2017-11-30 12:52:26

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.425 ms

Loss rate: 0.00%

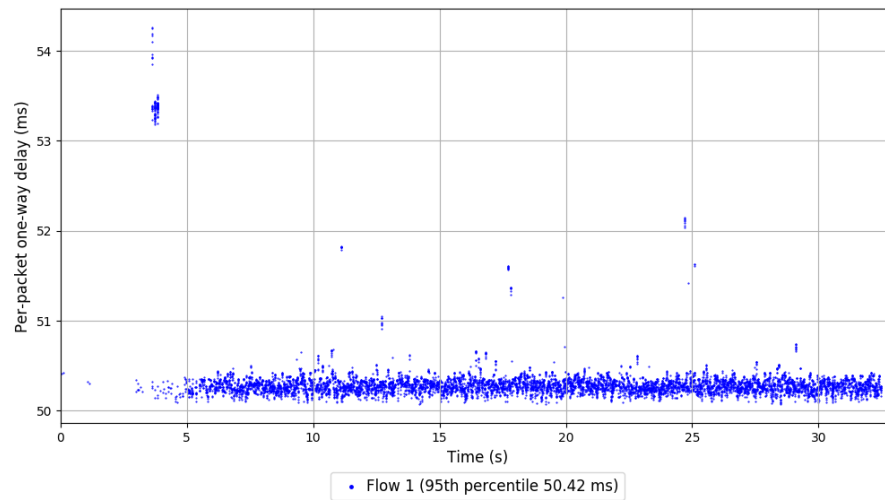
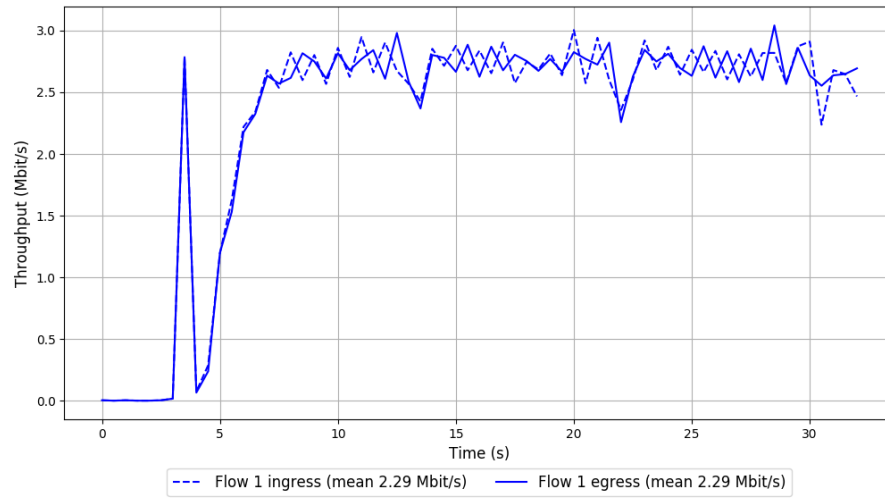
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.425 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-30 13:02:19

End at: 2017-11-30 13:02:49

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.803 ms

Loss rate: 0.00%

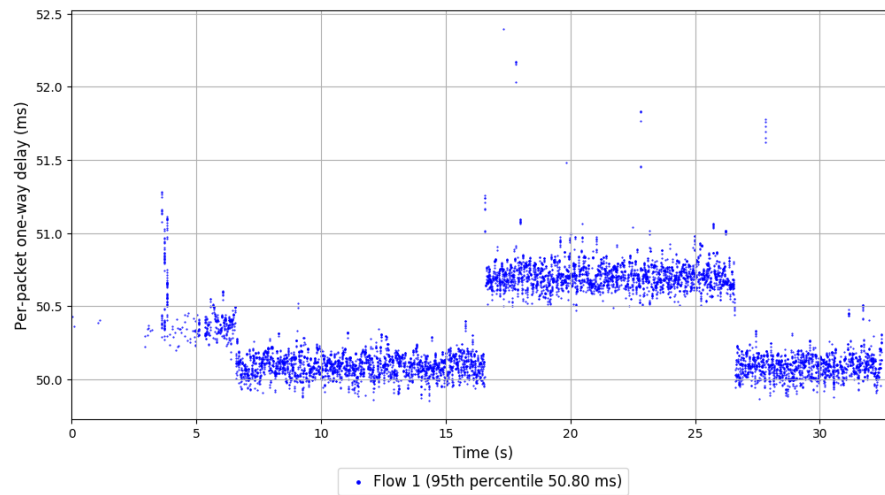
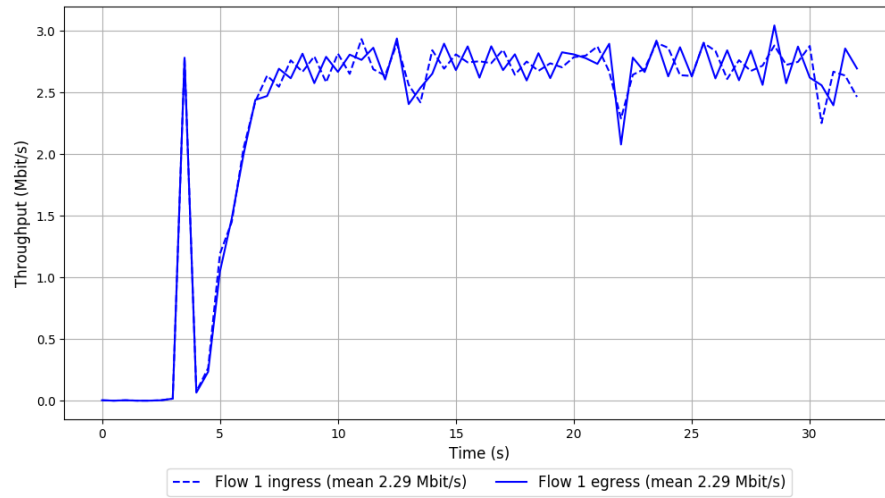
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.803 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-11-30 13:12:39

End at: 2017-11-30 13:13:09

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.462 ms

Loss rate: 0.00%

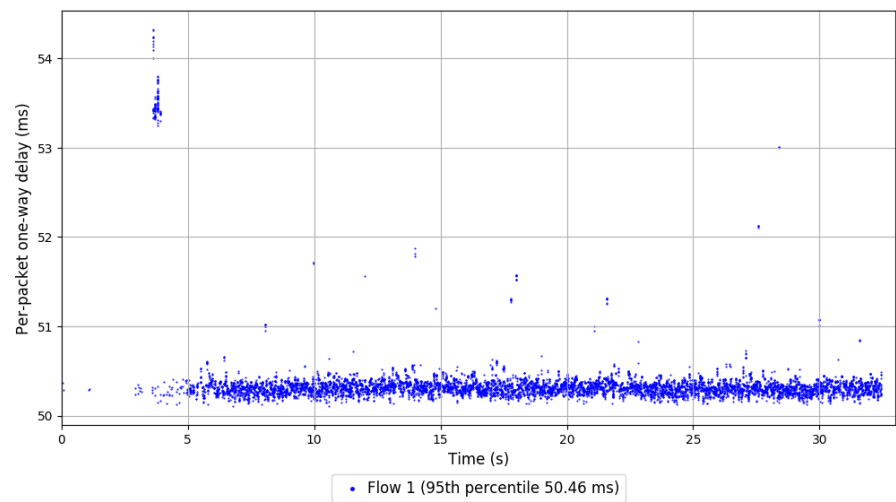
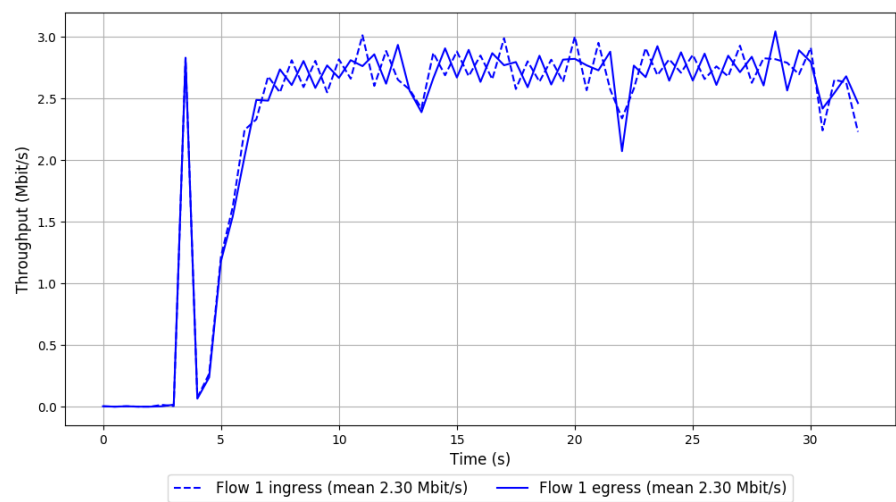
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 50.462 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-11-30 13:22:49

End at: 2017-11-30 13:23:19

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.759 ms

Loss rate: 0.00%

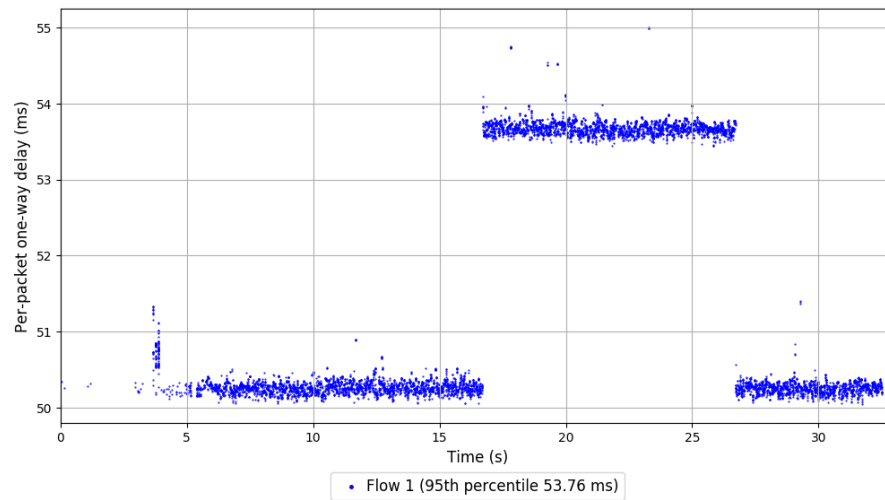
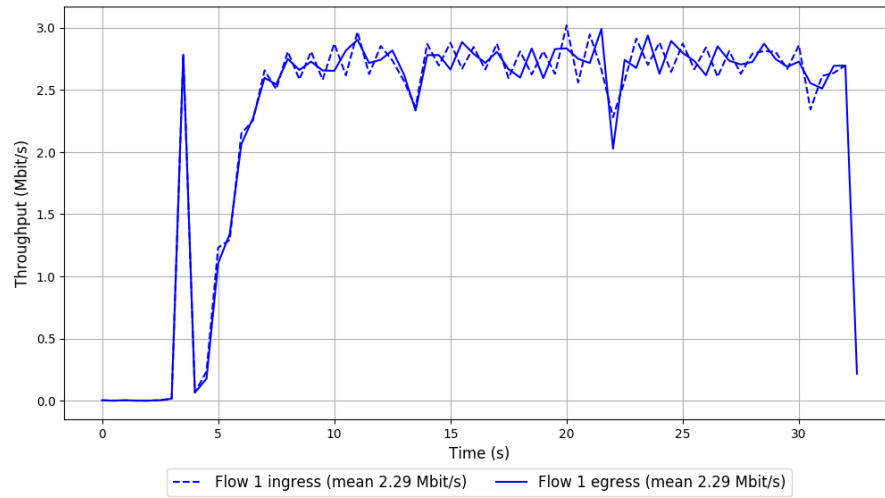
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.759 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 13:32:58

End at: 2017-11-30 13:33:28

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.00%

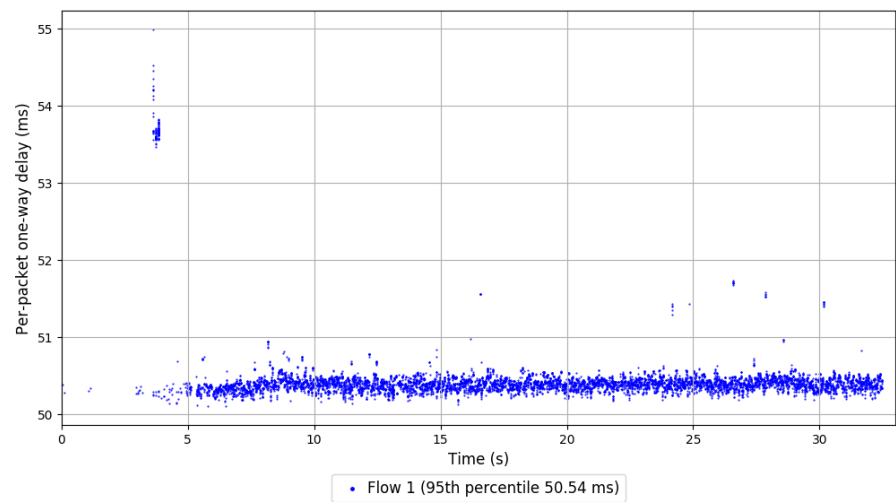
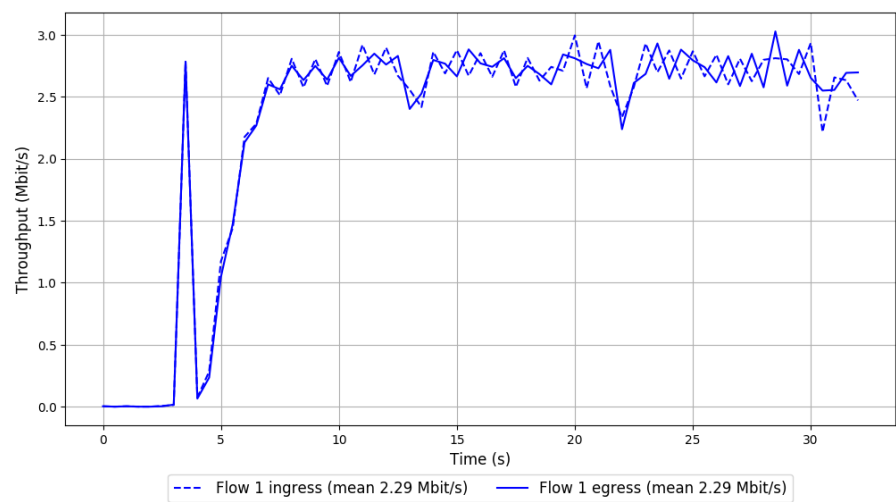
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

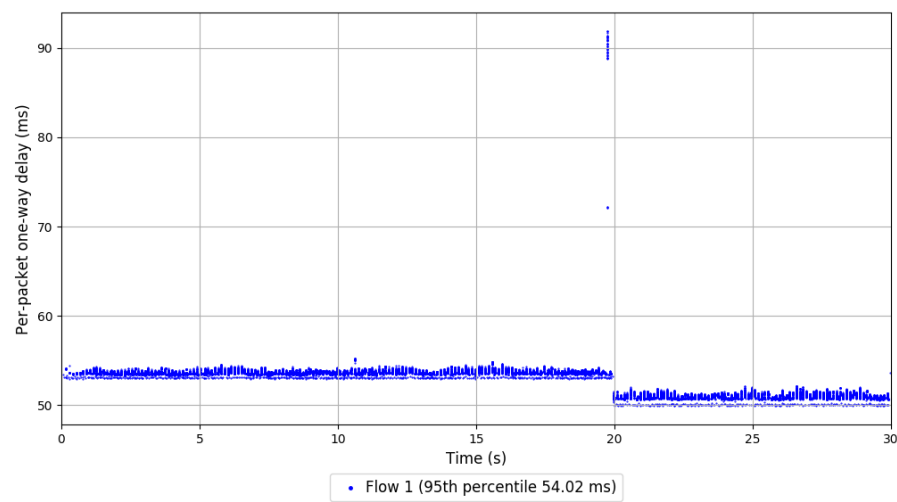
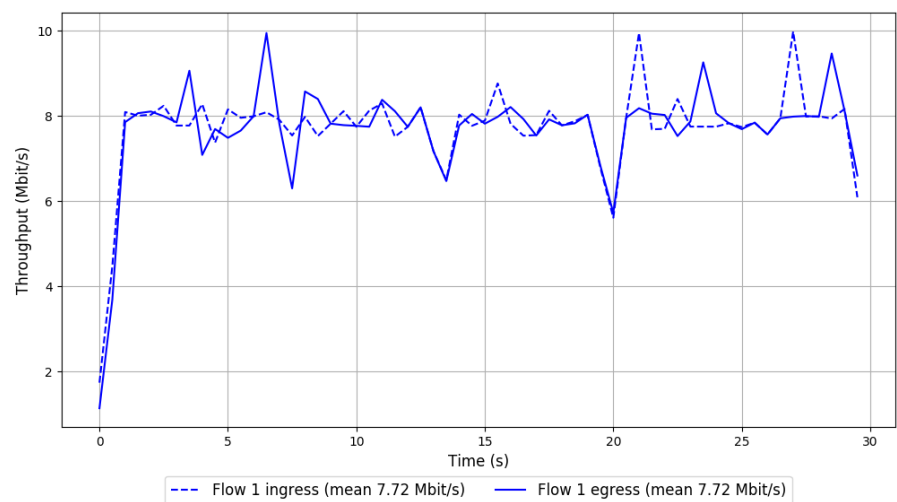


```
Run 1: Statistics of Sprout

Start at: 2017-11-30 11:59:13
End at: 2017-11-30 11:59:43

# Below is generated by plot.py at 2017-11-30 14:55:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 54.015 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 54.015 ms
Loss rate: 0.09%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-30 12:09:20

End at: 2017-11-30 12:09:50

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 53.857 ms

Loss rate: 0.12%

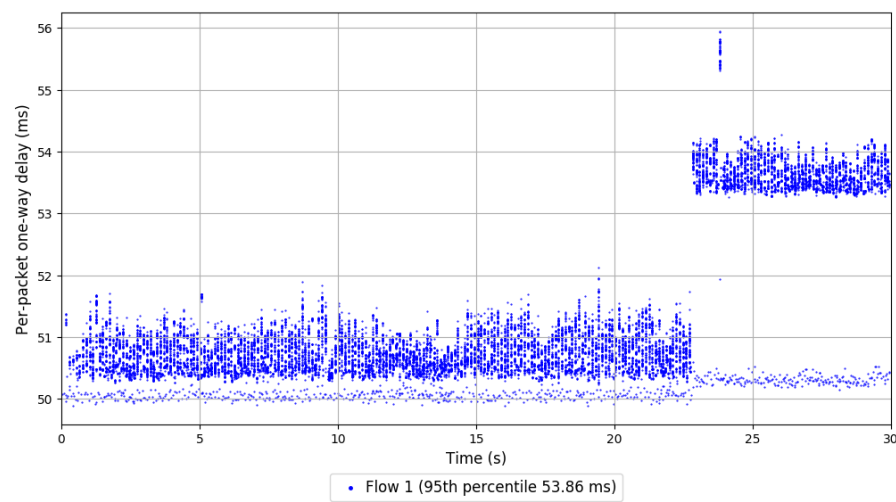
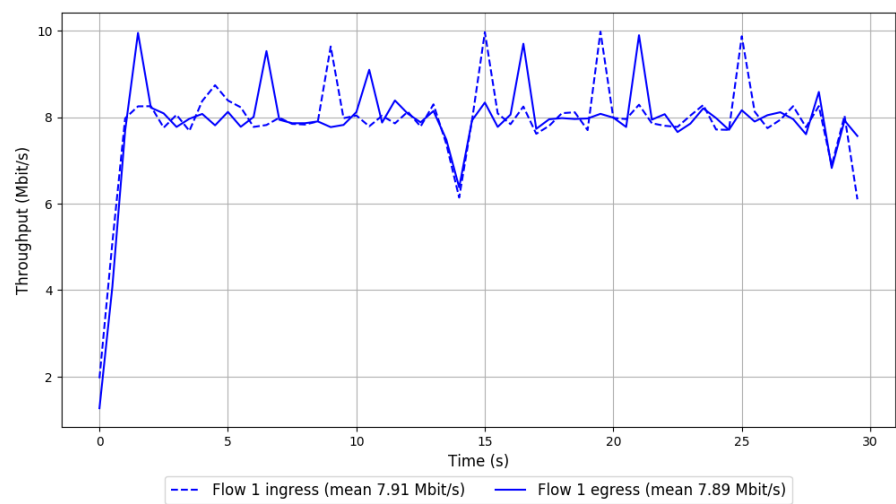
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 53.857 ms

Loss rate: 0.12%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-11-30 12:19:49

End at: 2017-11-30 12:20:19

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.065 ms

Loss rate: 0.10%

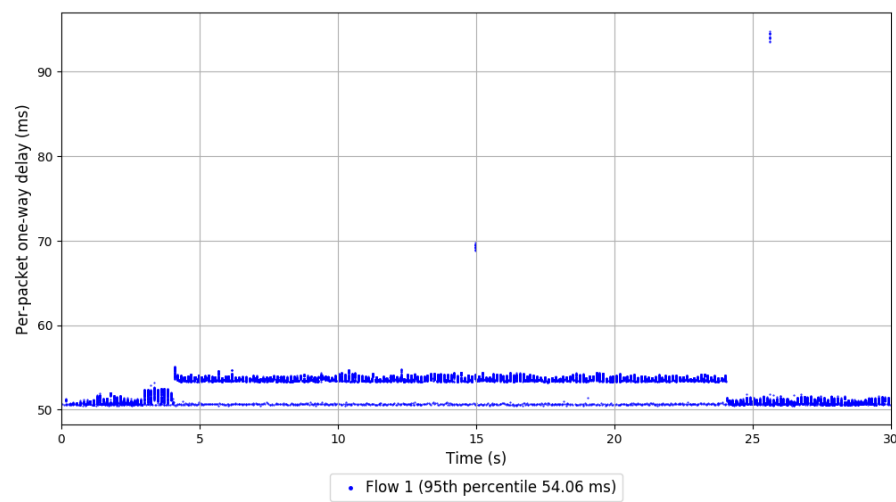
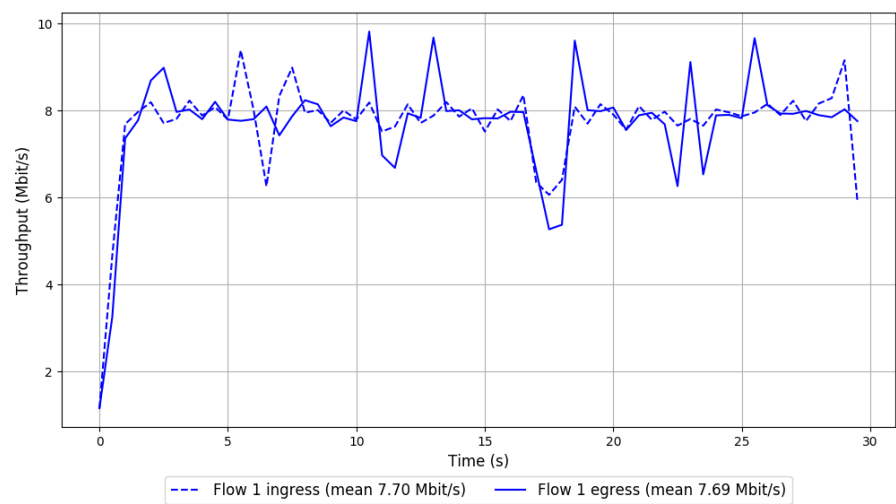
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.065 ms

Loss rate: 0.10%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-30 12:30:11

End at: 2017-11-30 12:30:41

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.050 ms

Loss rate: 0.08%

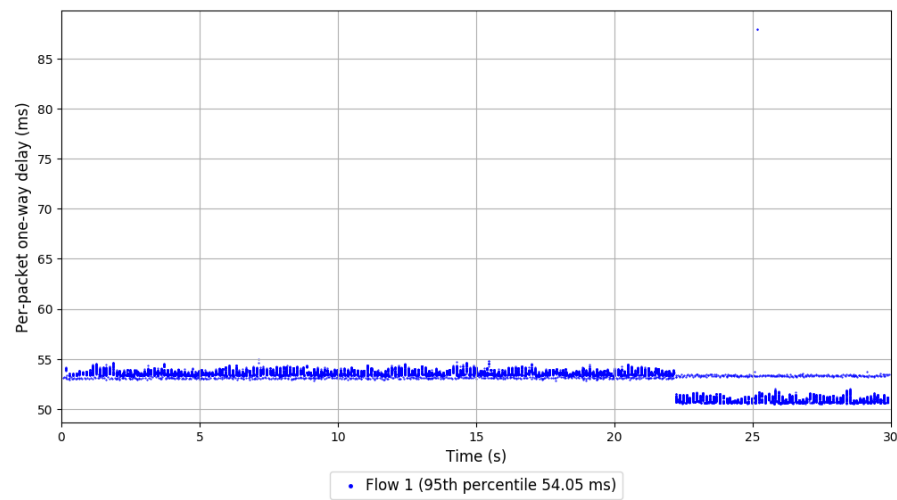
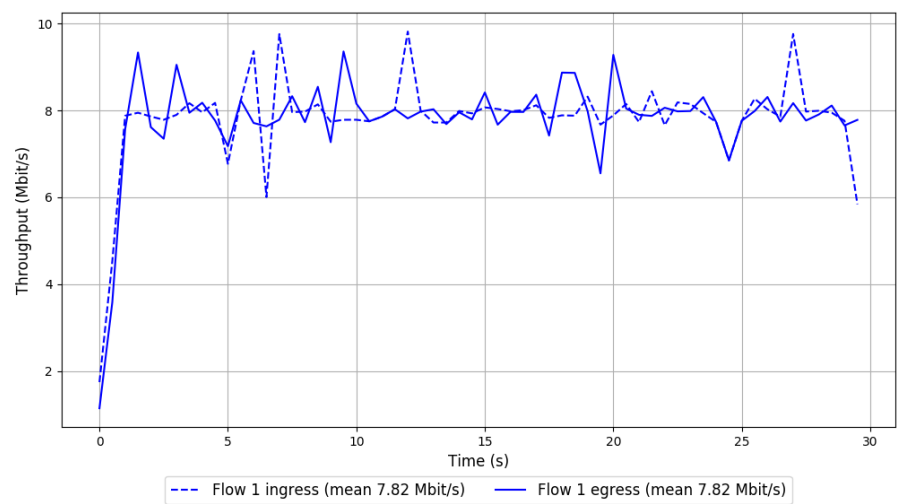
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.050 ms

Loss rate: 0.08%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-11-30 12:40:15

End at: 2017-11-30 12:40:45

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.120 ms

Loss rate: 0.10%

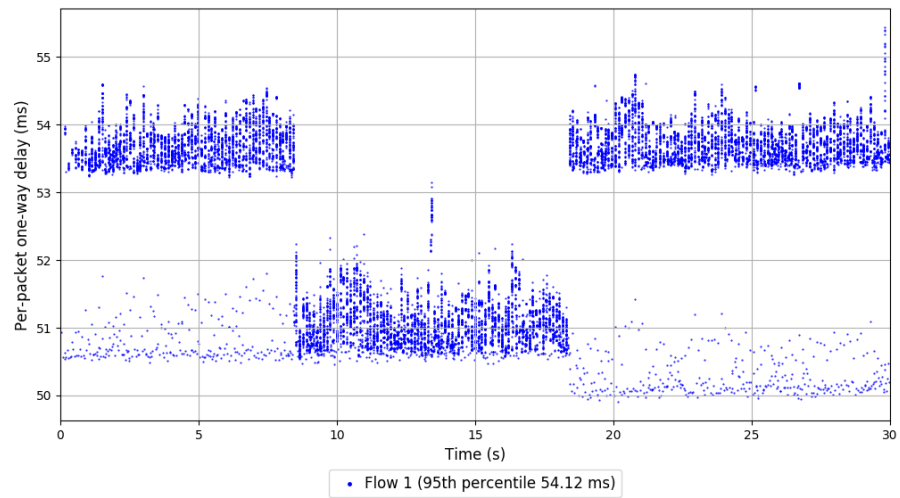
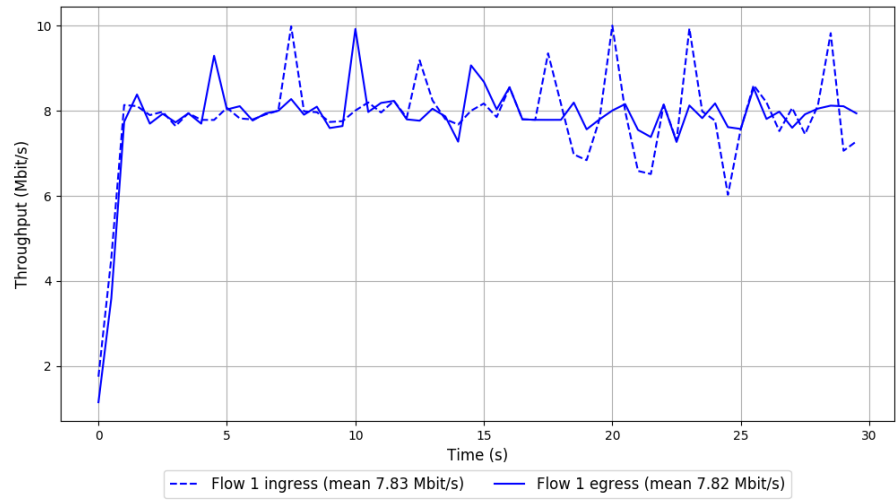
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.120 ms

Loss rate: 0.10%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-11-30 12:50:41

End at: 2017-11-30 12:51:11

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.254 ms

Loss rate: 0.05%

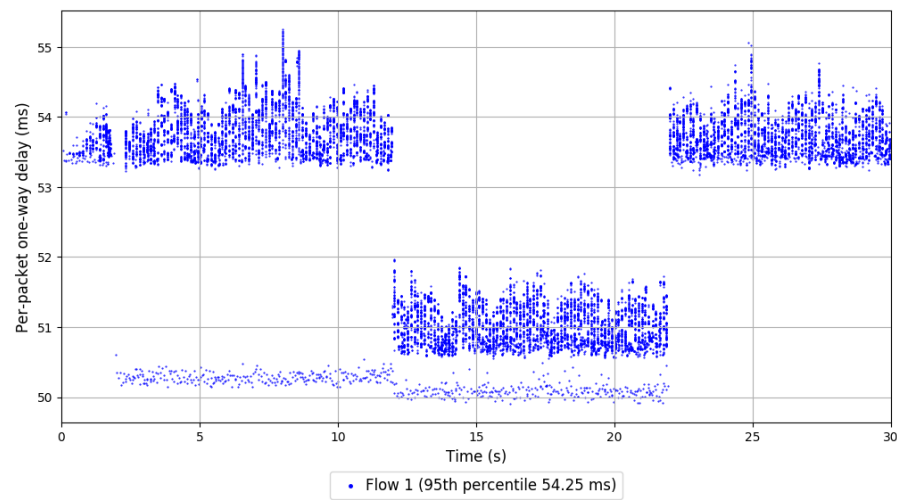
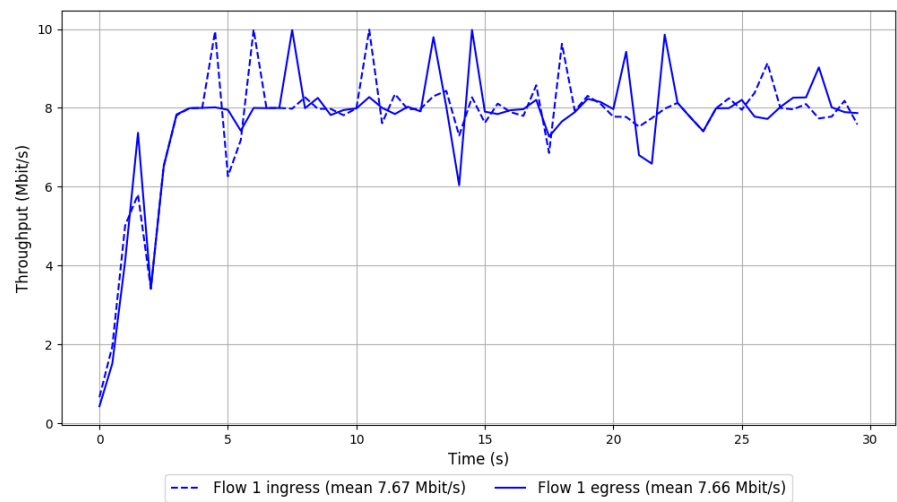
-- Flow 1:

Average throughput: 7.66 Mbit/s

95th percentile per-packet one-way delay: 54.254 ms

Loss rate: 0.05%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-30 13:01:05

End at: 2017-11-30 13:01:35

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.003 ms

Loss rate: 0.06%

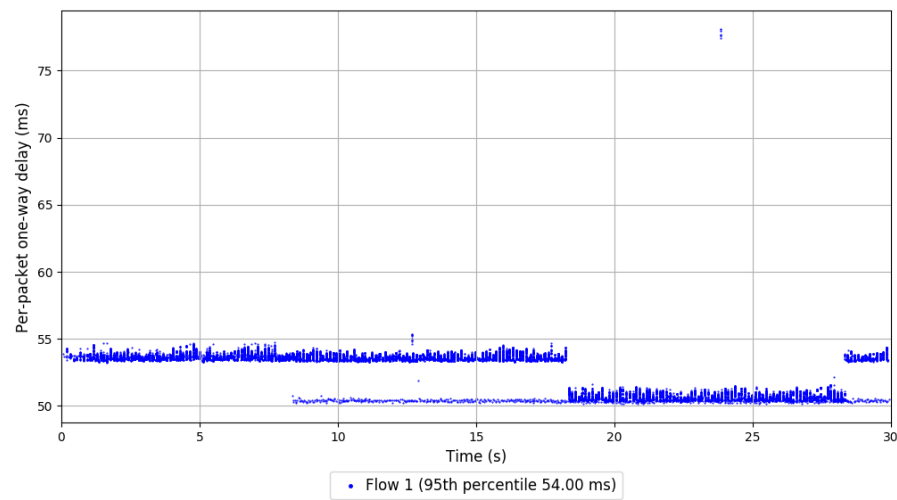
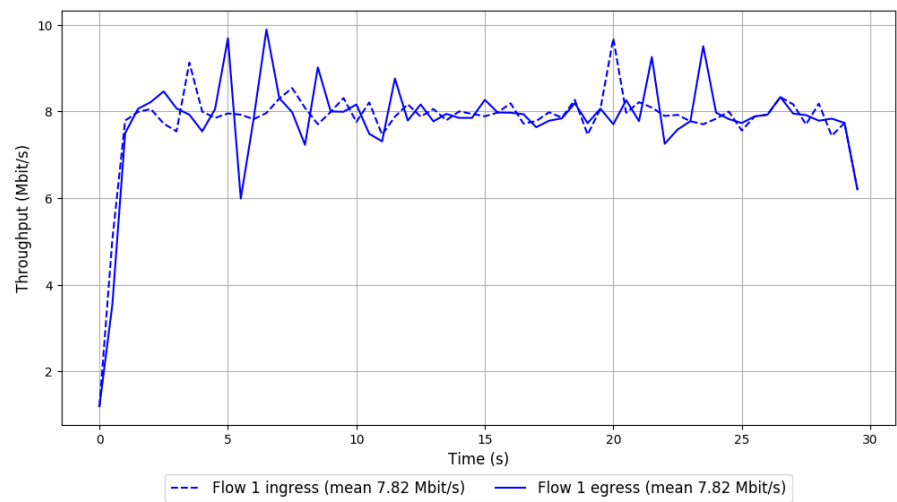
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 54.003 ms

Loss rate: 0.06%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-30 13:11:24

End at: 2017-11-30 13:11:54

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.37%

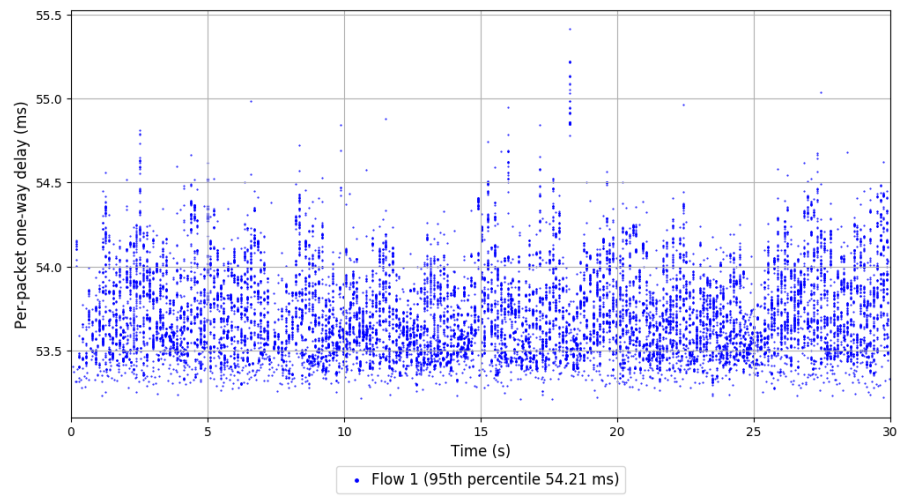
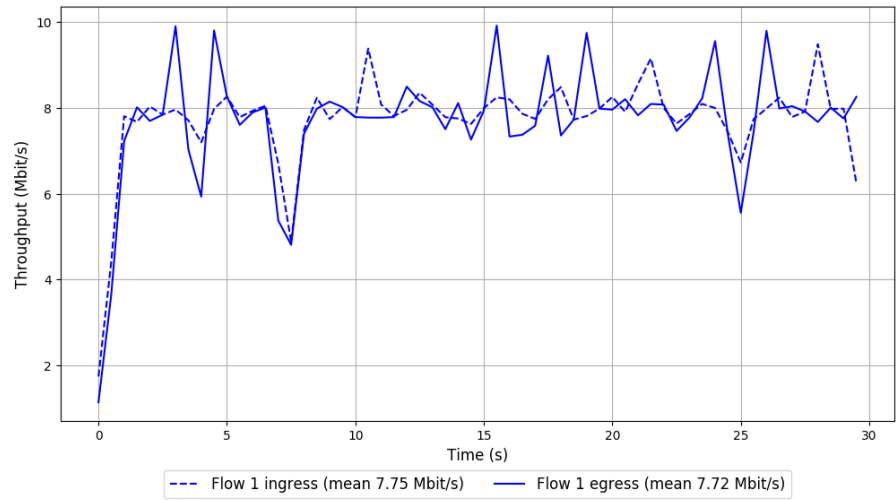
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.37%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-30 13:21:34

End at: 2017-11-30 13:22:04

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 52.844 ms

Loss rate: 0.02%

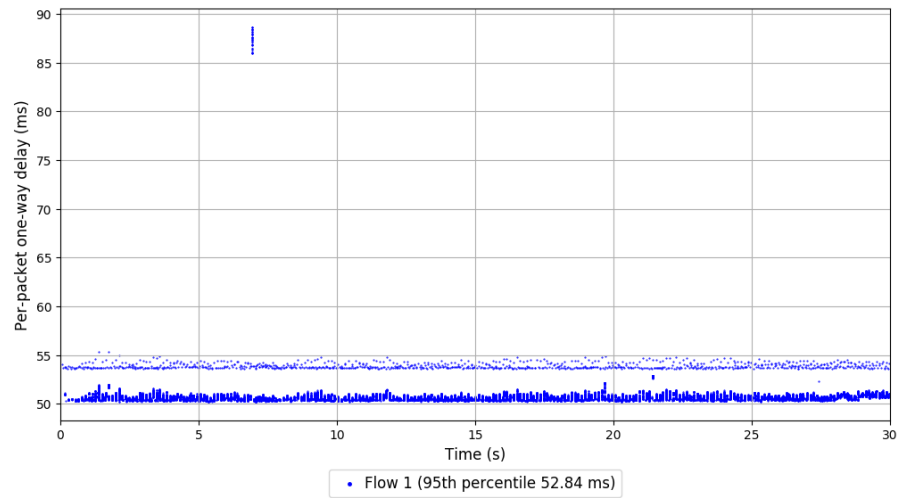
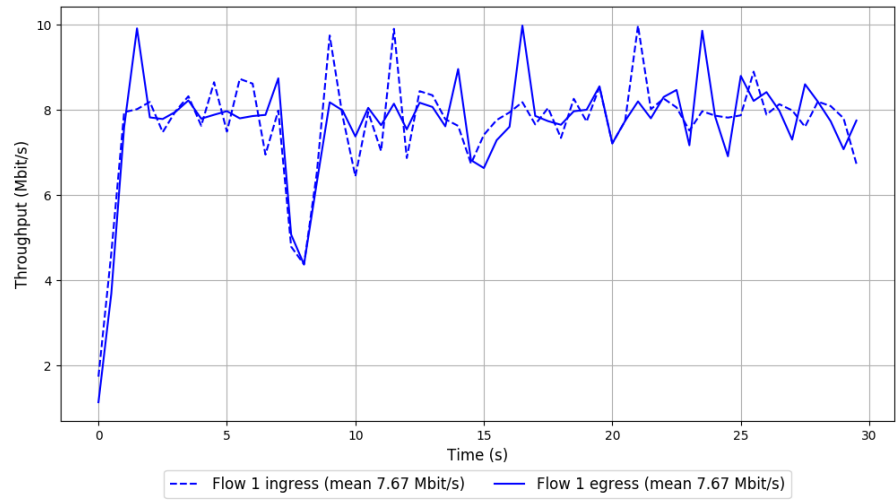
-- Flow 1:

Average throughput: 7.67 Mbit/s

95th percentile per-packet one-way delay: 52.844 ms

Loss rate: 0.02%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-30 13:31:44

End at: 2017-11-30 13:32:14

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.258 ms

Loss rate: 0.03%

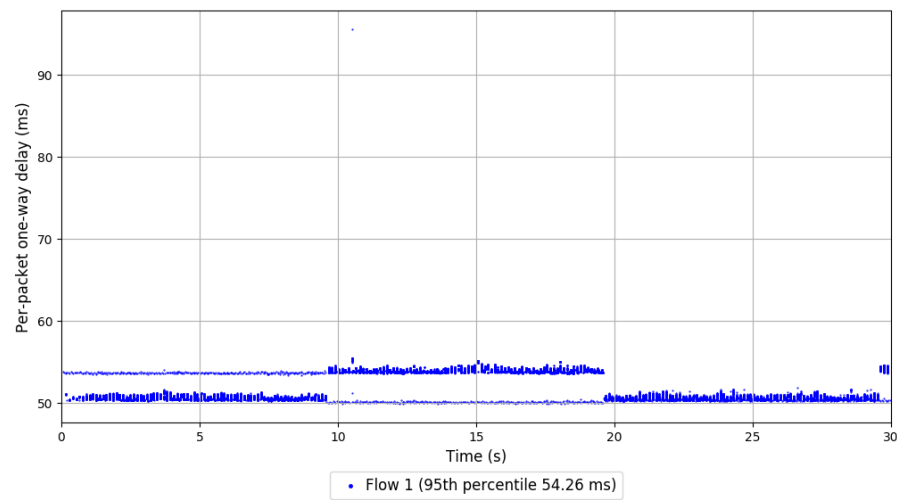
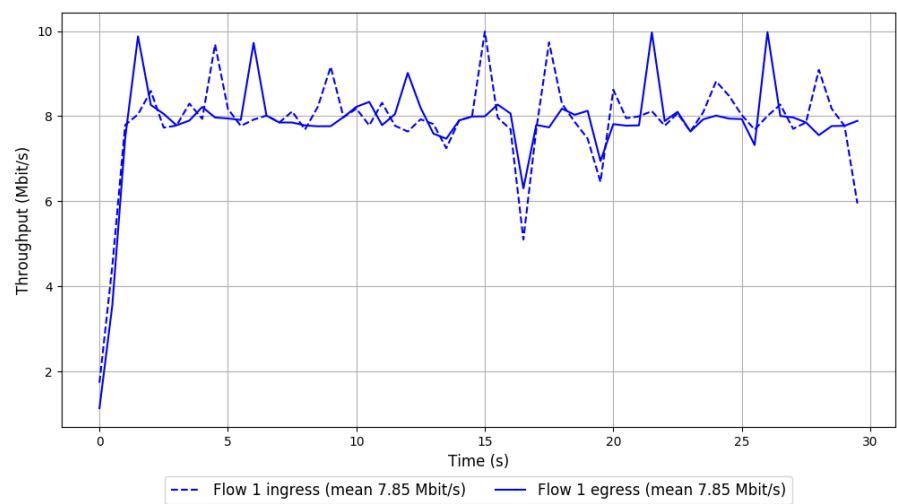
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.258 ms

Loss rate: 0.03%

Run 10: Report of Sprout — Data Link

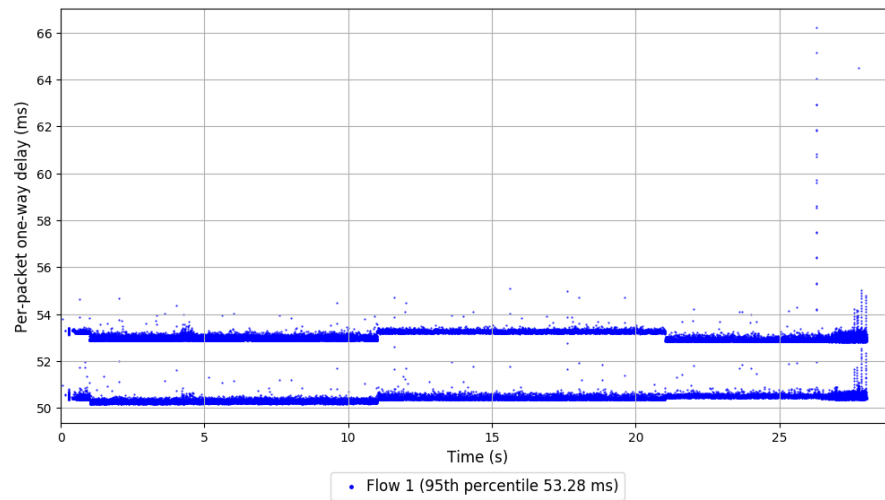
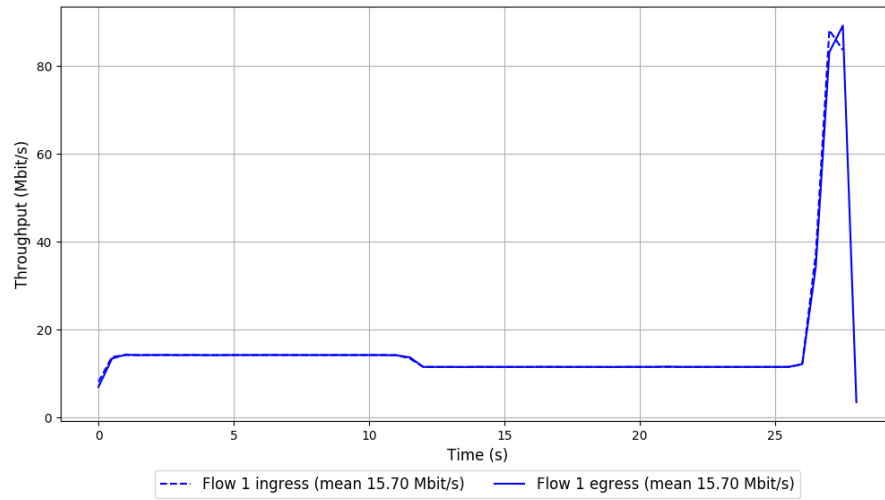


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 12:04:50
End at: 2017-11-30 12:05:20

# Below is generated by plot.py at 2017-11-30 14:55:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.70 Mbit/s
95th percentile per-packet one-way delay: 53.281 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.70 Mbit/s
95th percentile per-packet one-way delay: 53.281 ms
Loss rate: 0.00%
```

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

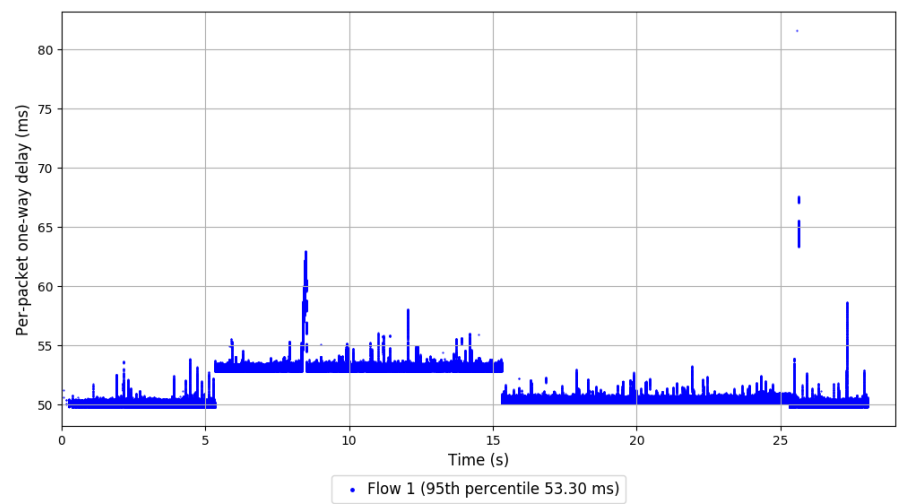
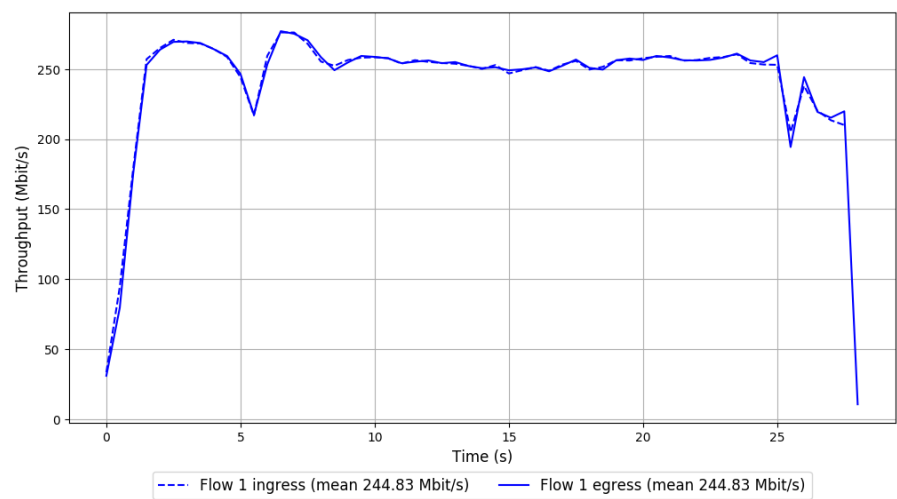


```
Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 12:15:06
End at: 2017-11-30 12:15:36

# Below is generated by plot.py at 2017-11-30 14:55:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.83 Mbit/s
95th percentile per-packet one-way delay: 53.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.83 Mbit/s
95th percentile per-packet one-way delay: 53.302 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 12:25:33

End at: 2017-11-30 12:26:03

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.98 Mbit/s

95th percentile per-packet one-way delay: 53.302 ms

Loss rate: 0.00%

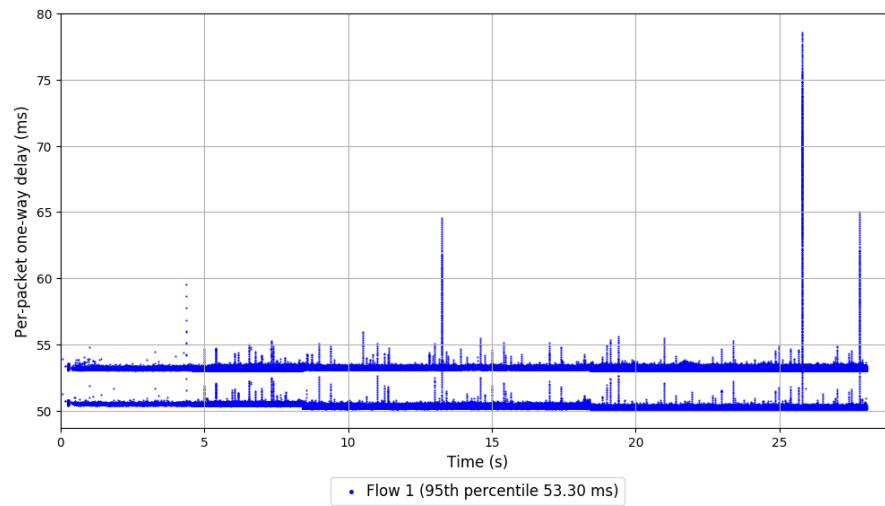
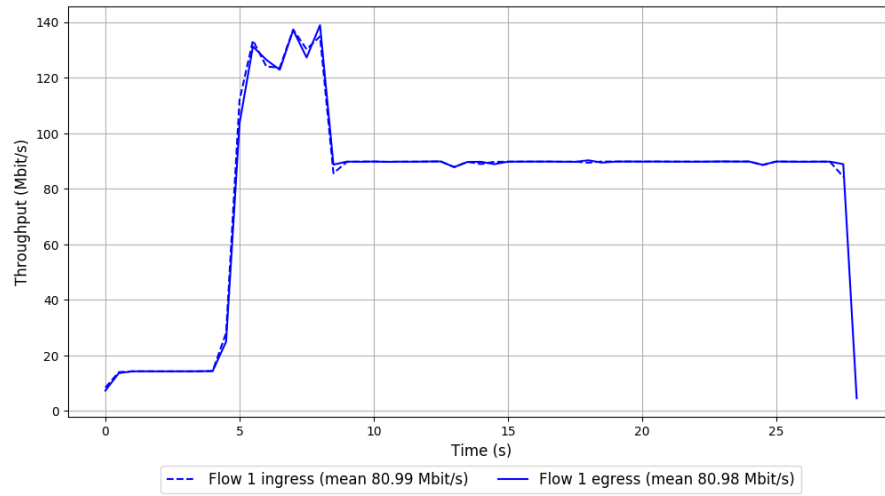
-- Flow 1:

Average throughput: 80.98 Mbit/s

95th percentile per-packet one-way delay: 53.302 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 12:35:54

End at: 2017-11-30 12:36:24

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.12 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 0.00%

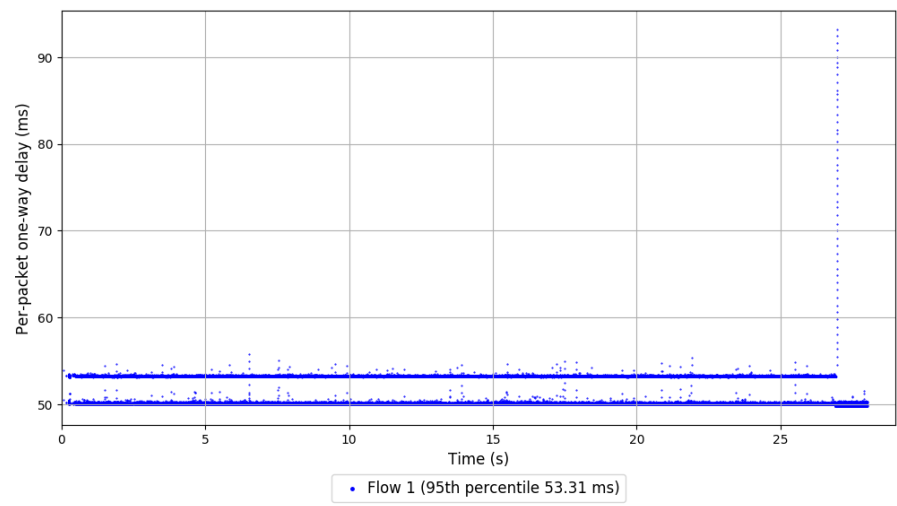
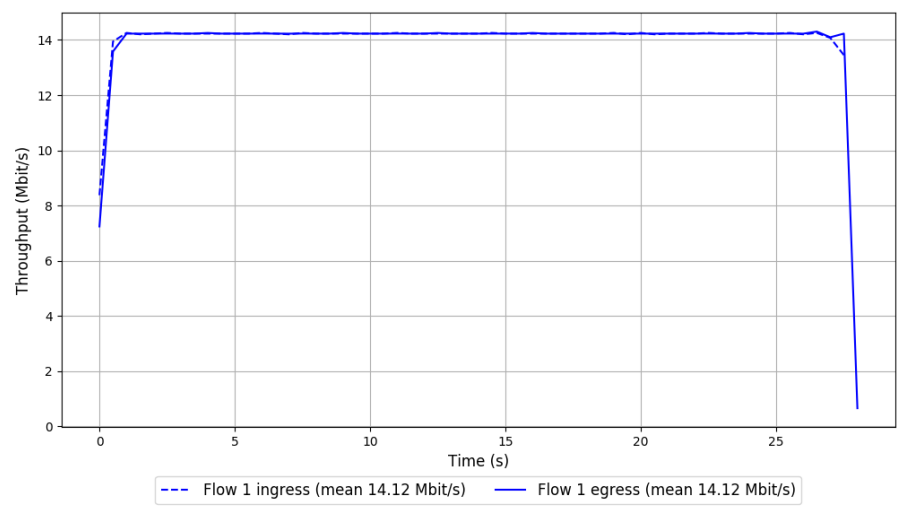
-- Flow 1:

Average throughput: 14.12 Mbit/s

95th percentile per-packet one-way delay: 53.312 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 12:45:58

End at: 2017-11-30 12:46:28

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.43 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.00%

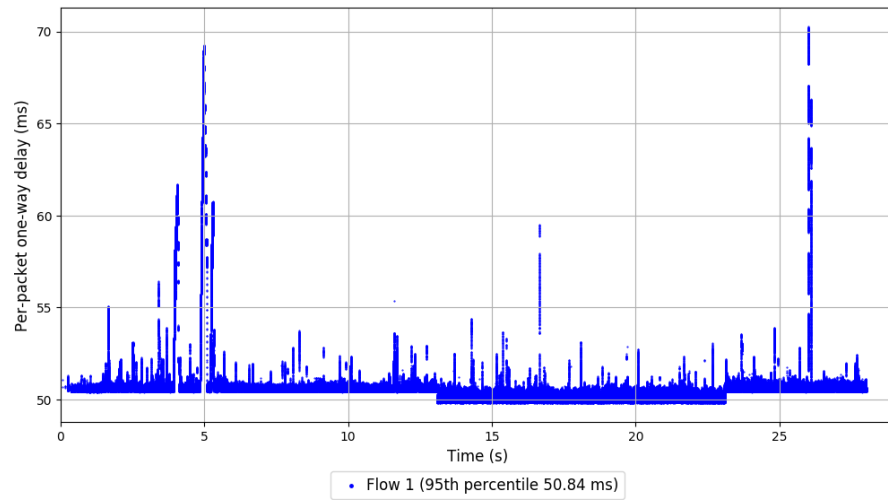
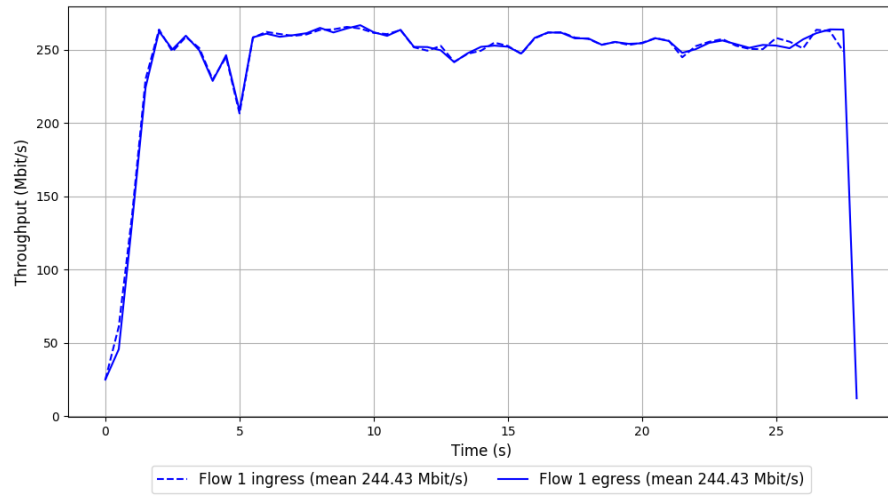
-- Flow 1:

Average throughput: 244.43 Mbit/s

95th percentile per-packet one-way delay: 50.841 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 12:56:25

End at: 2017-11-30 12:56:55

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.60 Mbit/s

95th percentile per-packet one-way delay: 53.606 ms

Loss rate: 0.19%

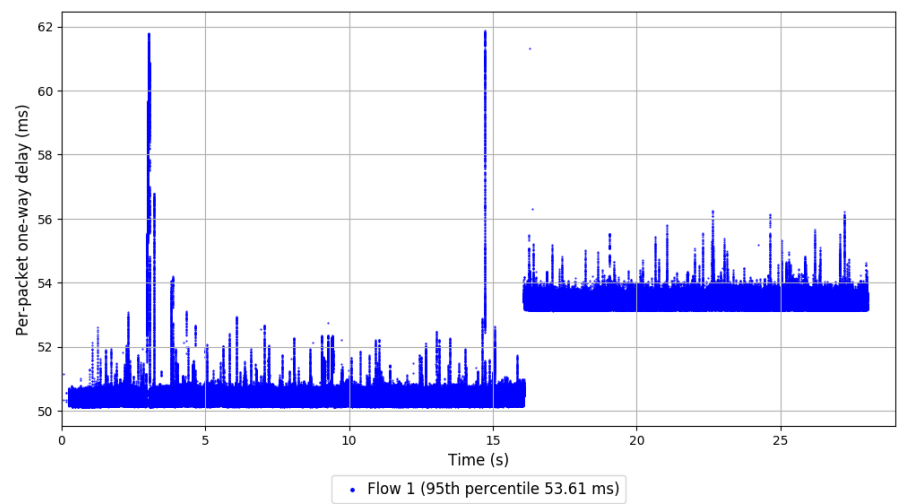
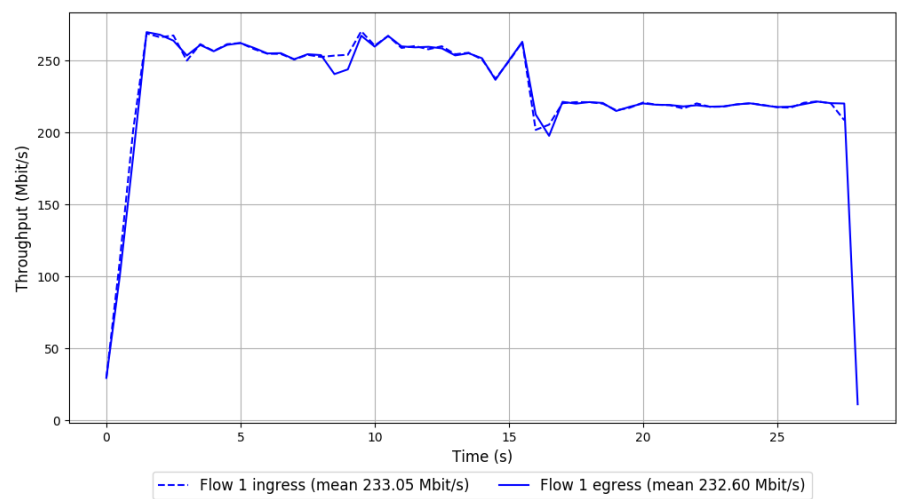
-- Flow 1:

Average throughput: 232.60 Mbit/s

95th percentile per-packet one-way delay: 53.606 ms

Loss rate: 0.19%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 13:06:50

End at: 2017-11-30 13:07:20

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.35 Mbit/s

95th percentile per-packet one-way delay: 53.952 ms

Loss rate: 0.00%

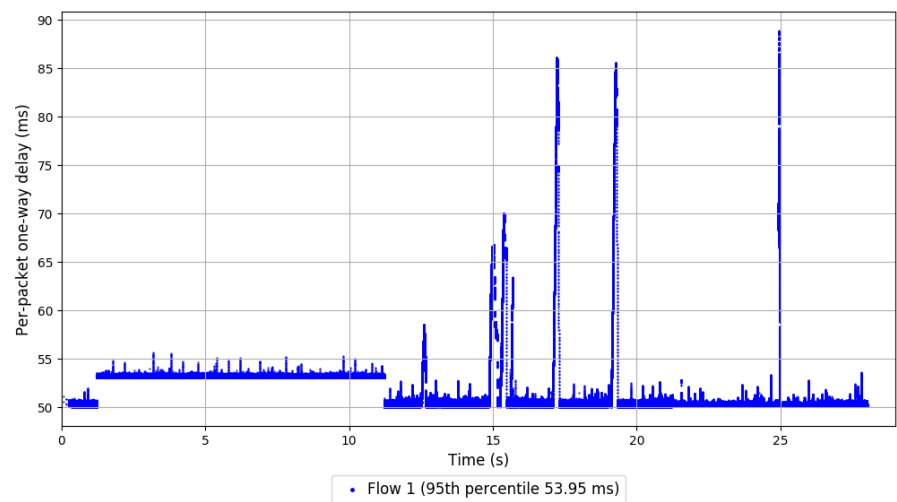
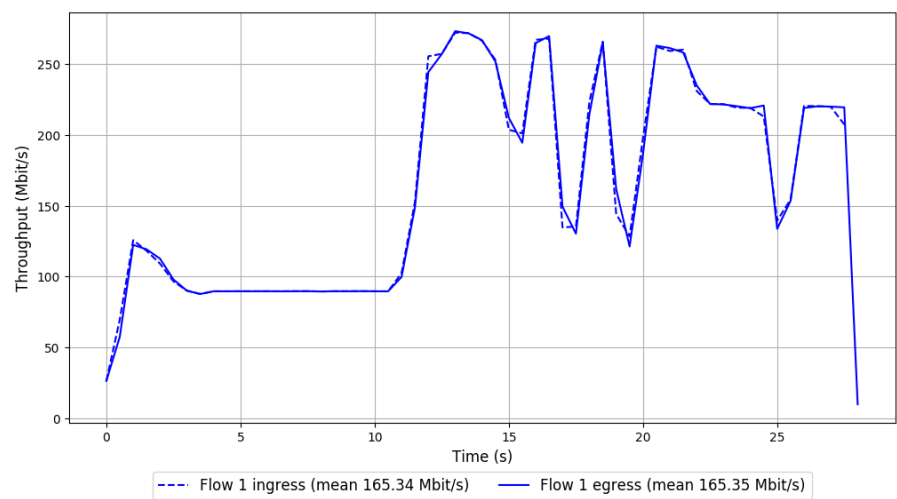
-- Flow 1:

Average throughput: 165.35 Mbit/s

95th percentile per-packet one-way delay: 53.952 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 13:17:07

End at: 2017-11-30 13:17:37

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.77 Mbit/s

95th percentile per-packet one-way delay: 53.531 ms

Loss rate: 0.00%

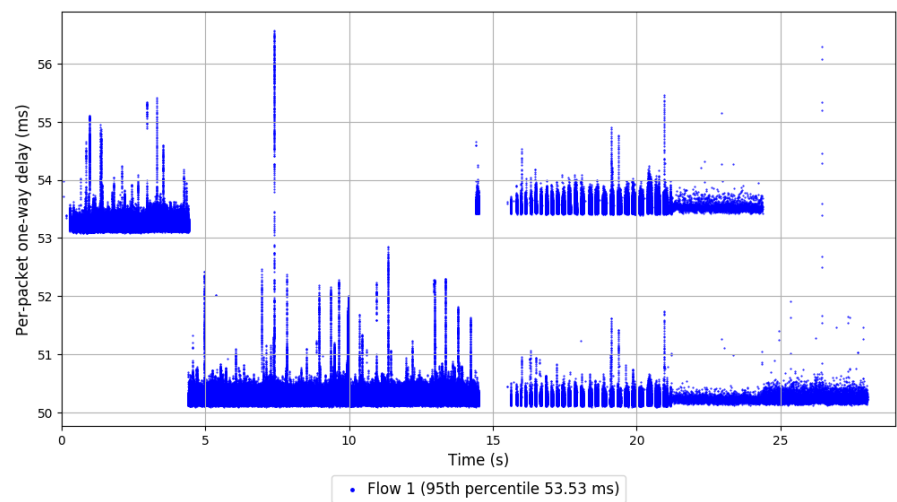
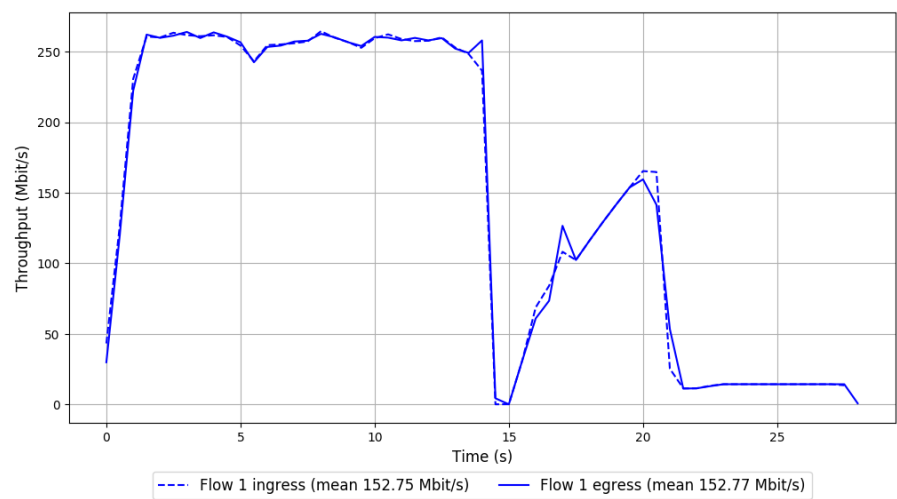
-- Flow 1:

Average throughput: 152.77 Mbit/s

95th percentile per-packet one-way delay: 53.531 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 13:27:21

End at: 2017-11-30 13:27:51

Below is generated by plot.py at 2017-11-30 14:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.01%

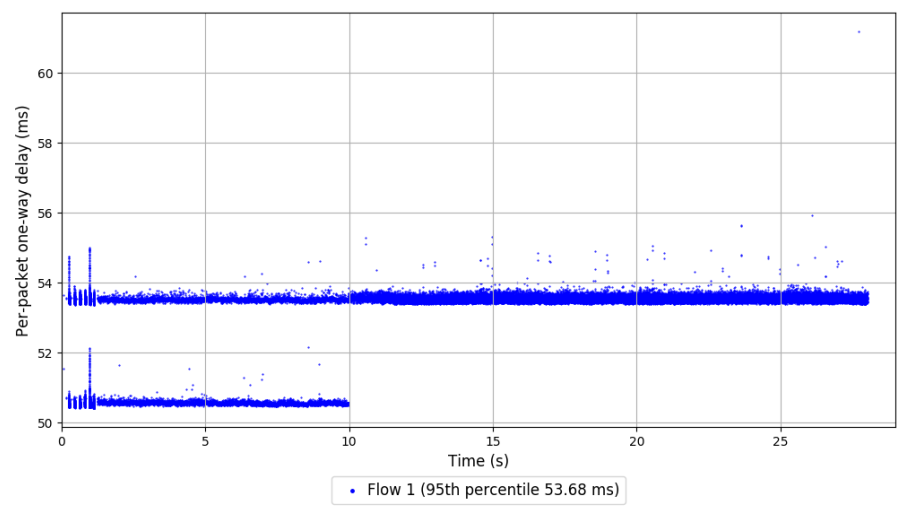
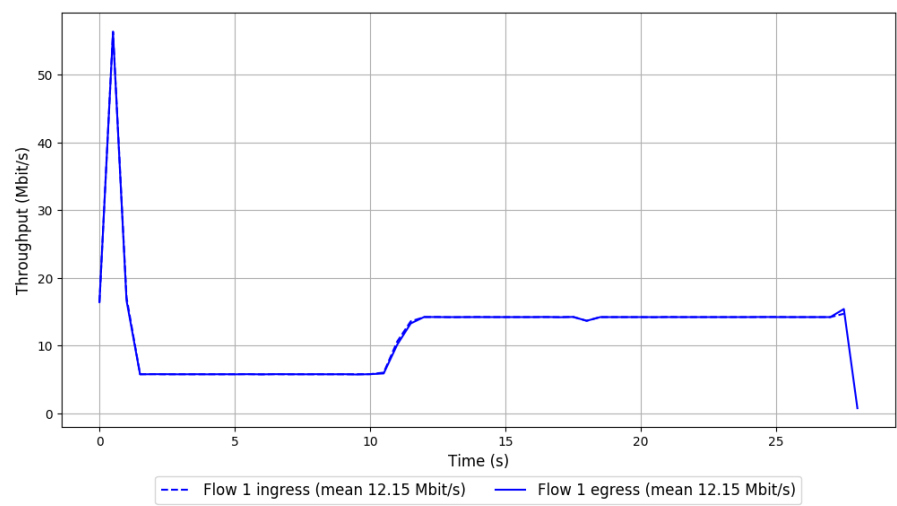
-- Flow 1:

Average throughput: 12.15 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.01%

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

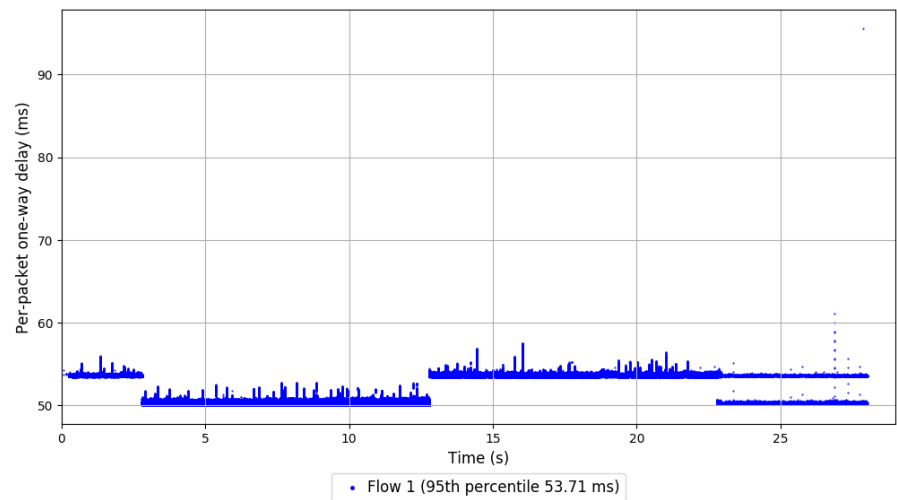
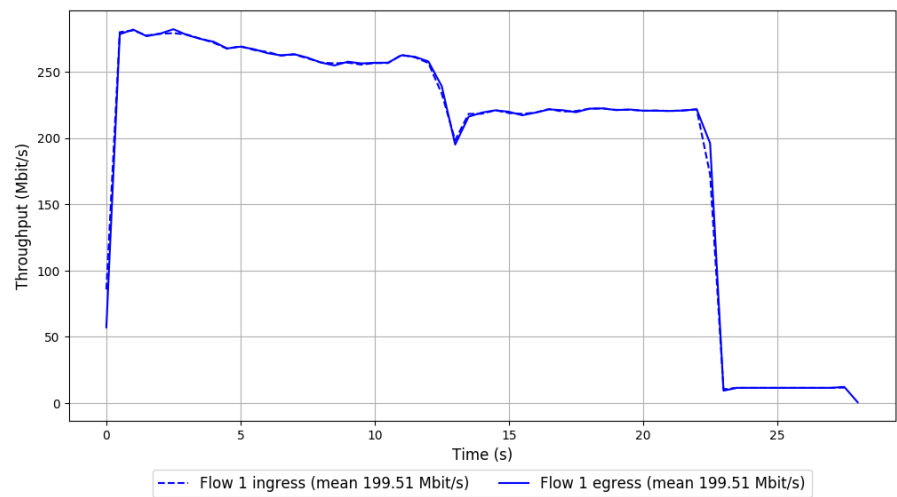


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 13:37:28
End at: 2017-11-30 13:37:58

# Below is generated by plot.py at 2017-11-30 14:57:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.51 Mbit/s
95th percentile per-packet one-way delay: 53.708 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.51 Mbit/s
95th percentile per-packet one-way delay: 53.708 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 11:58:33

End at: 2017-11-30 11:59:03

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.00%

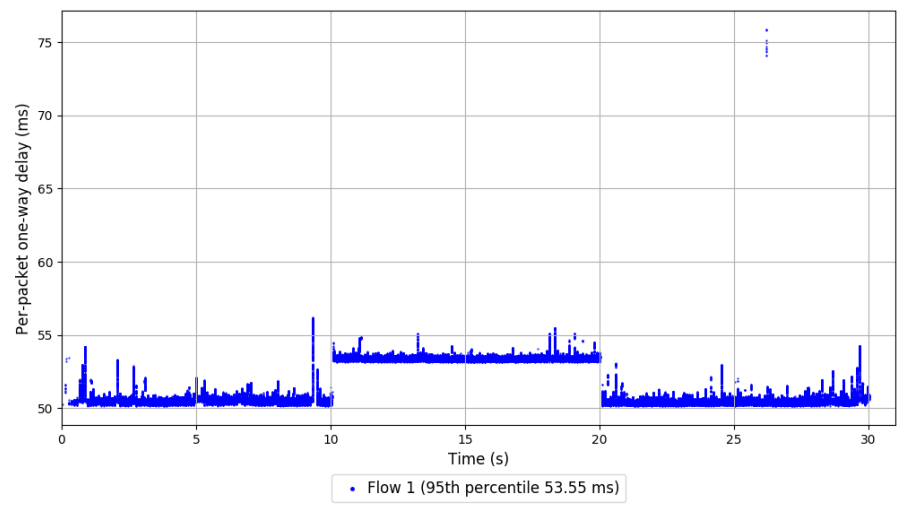
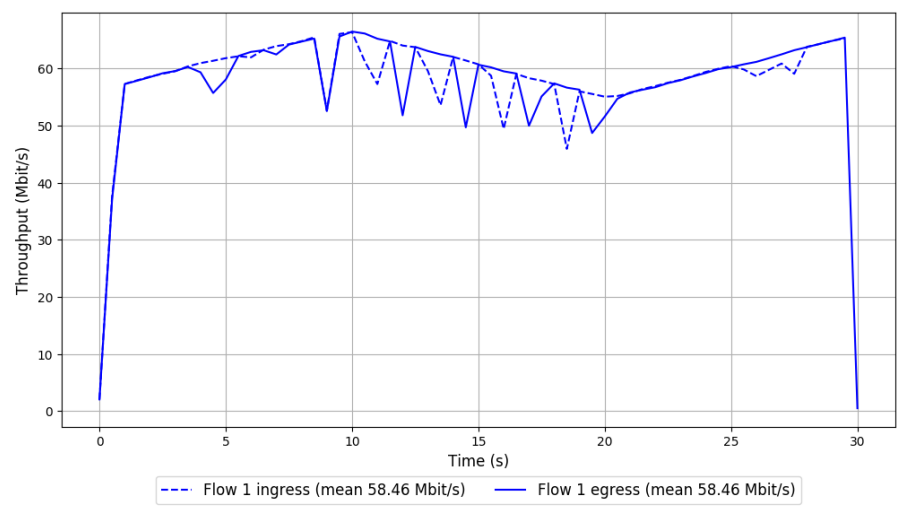
-- Flow 1:

Average throughput: 58.46 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 12:08:40

End at: 2017-11-30 12:09:10

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.14 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.27%

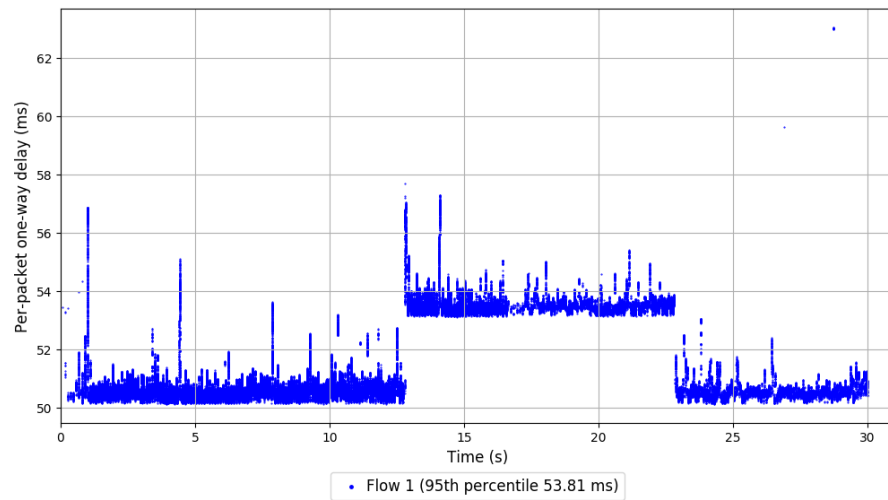
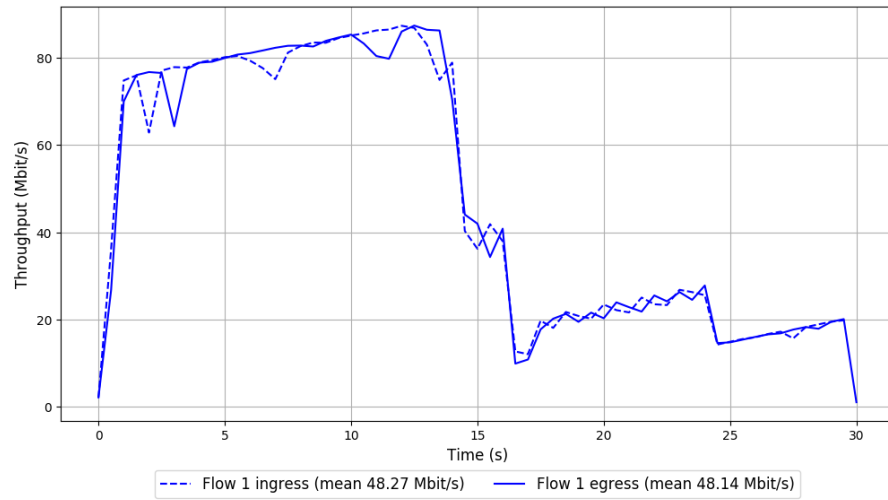
-- Flow 1:

Average throughput: 48.14 Mbit/s

95th percentile per-packet one-way delay: 53.807 ms

Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-30 12:19:10

End at: 2017-11-30 12:19:40

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.03%

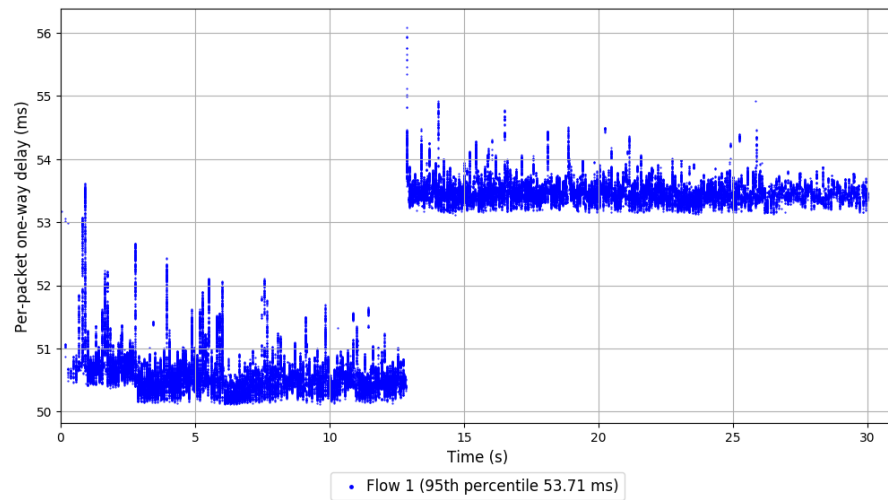
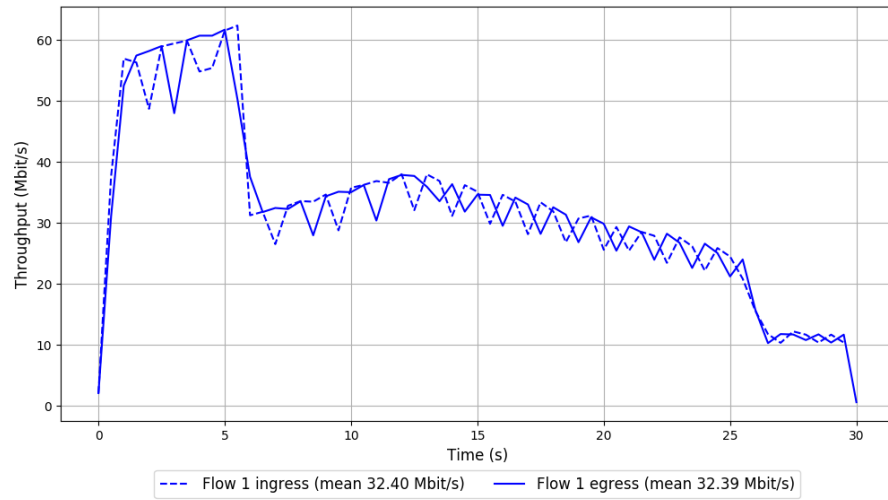
-- Flow 1:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 53.712 ms

Loss rate: 0.03%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-30 12:29:28

End at: 2017-11-30 12:29:58

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 53.567 ms

Loss rate: 0.00%

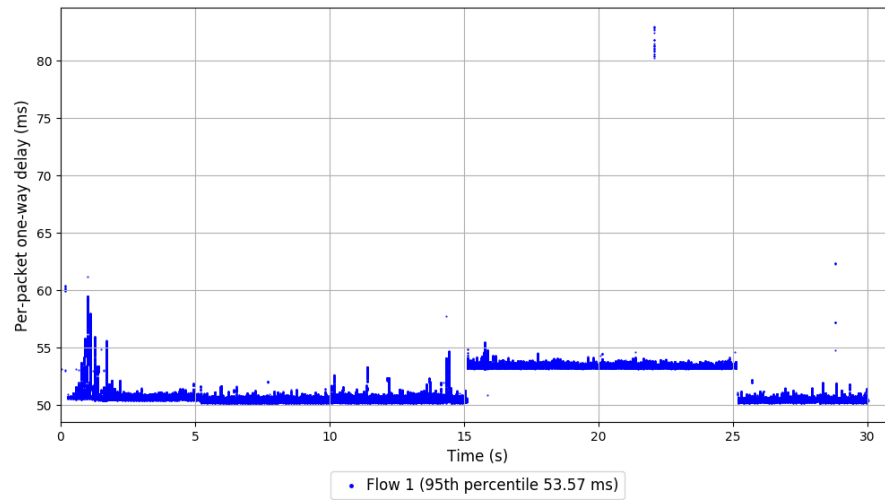
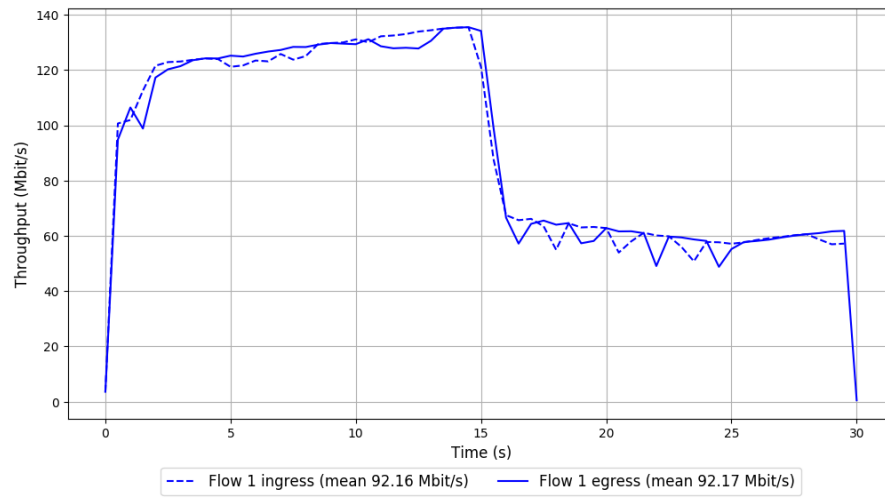
-- Flow 1:

Average throughput: 92.17 Mbit/s

95th percentile per-packet one-way delay: 53.567 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-30 12:39:36

End at: 2017-11-30 12:40:06

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 53.556 ms

Loss rate: 0.68%

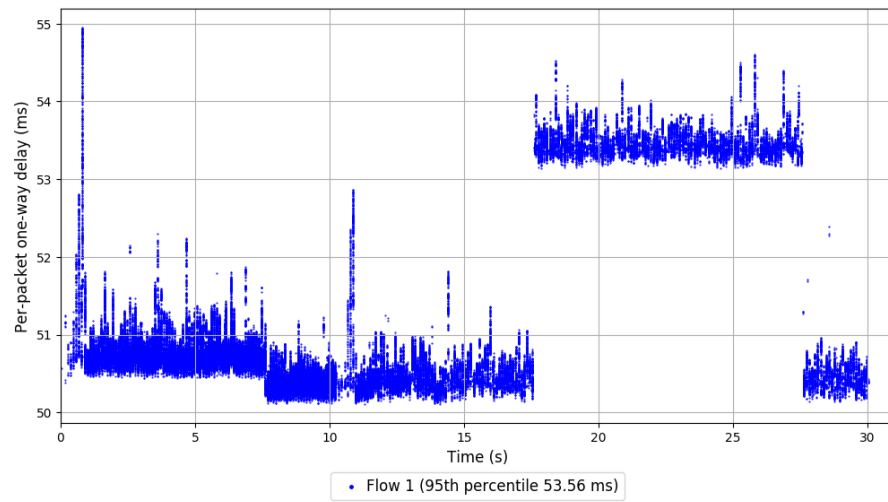
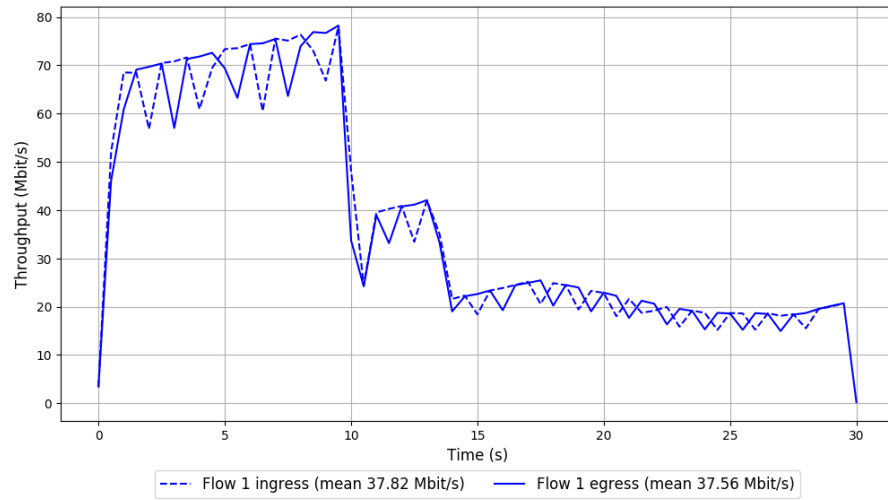
-- Flow 1:

Average throughput: 37.56 Mbit/s

95th percentile per-packet one-way delay: 53.556 ms

Loss rate: 0.68%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-11-30 12:50:03

End at: 2017-11-30 12:50:34

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 0.03%

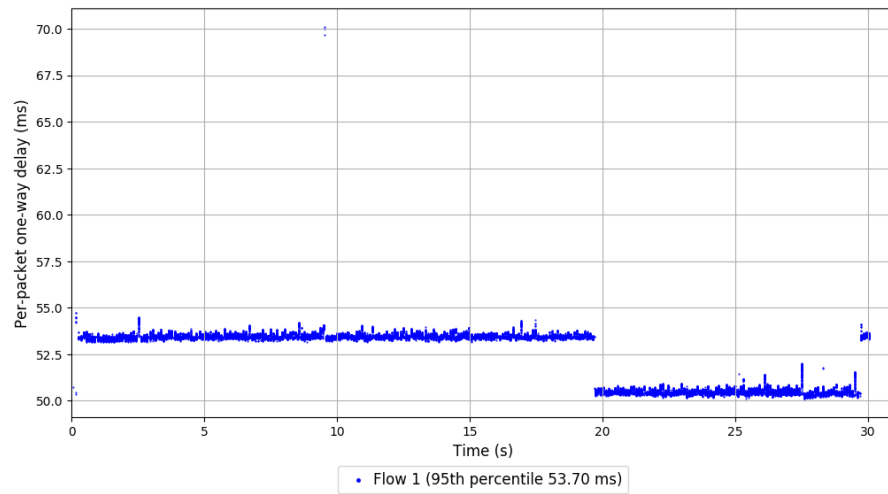
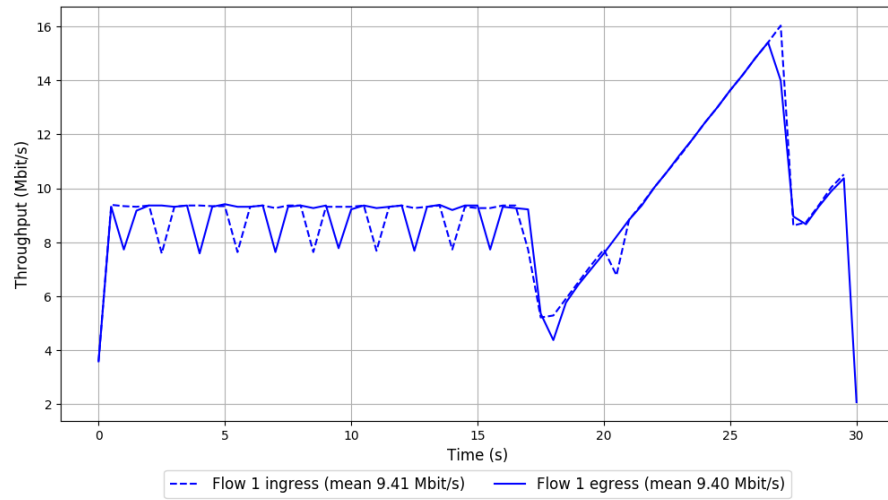
-- Flow 1:

Average throughput: 9.40 Mbit/s

95th percentile per-packet one-way delay: 53.695 ms

Loss rate: 0.03%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 13:00:27

End at: 2017-11-30 13:00:57

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 53.469 ms

Loss rate: 0.44%

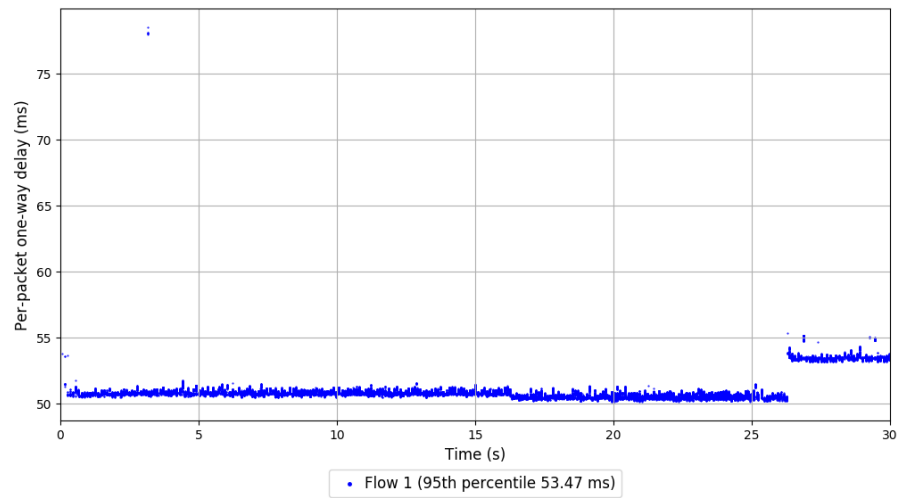
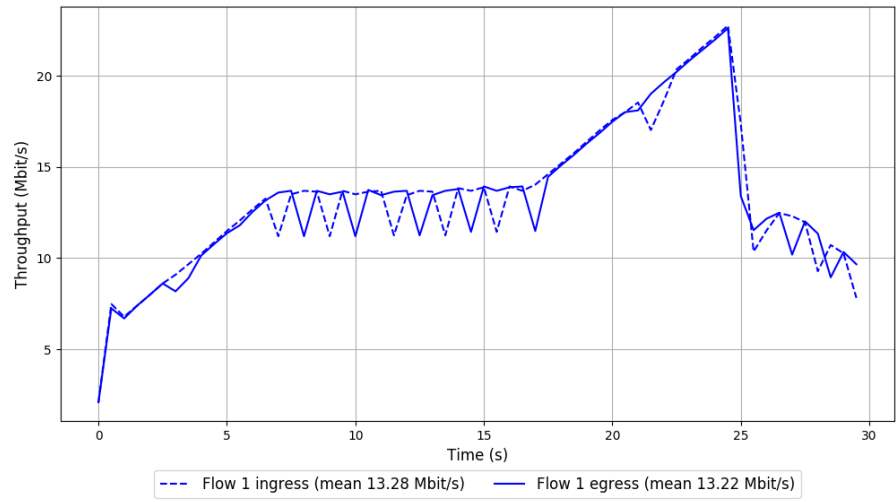
-- Flow 1:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 53.469 ms

Loss rate: 0.44%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 13:10:45

End at: 2017-11-30 13:11:15

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.78 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.36%

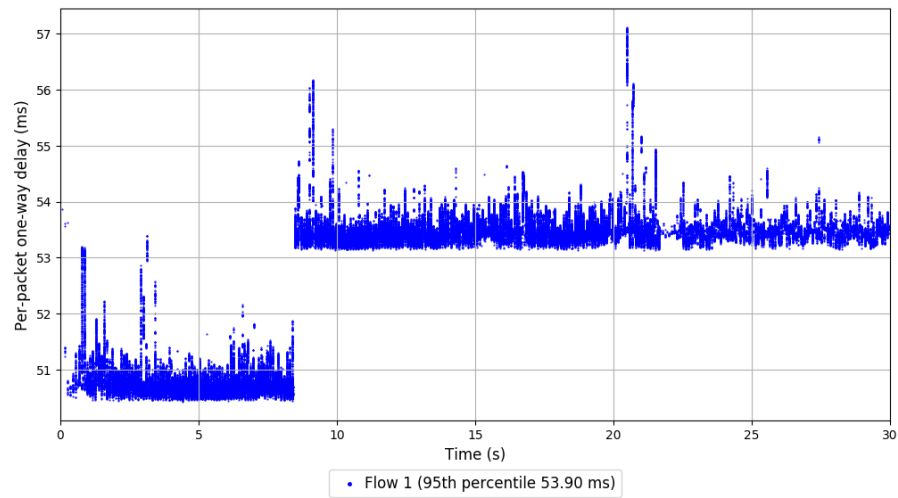
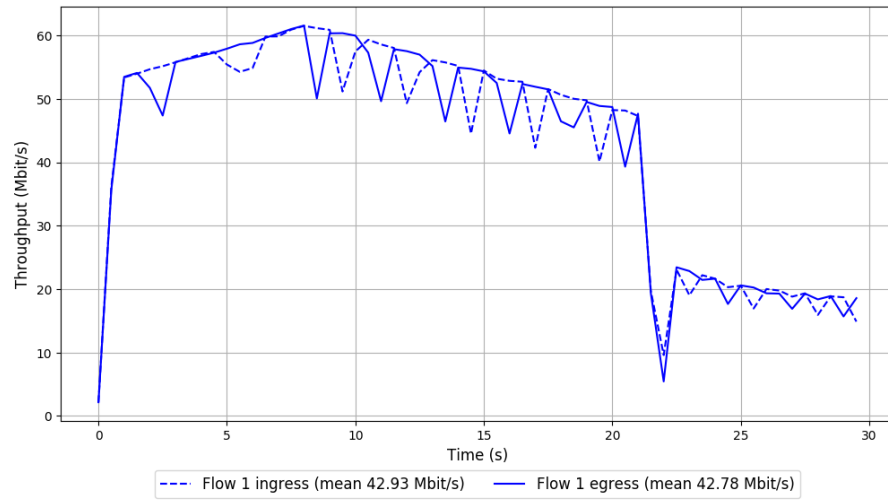
-- Flow 1:

Average throughput: 42.78 Mbit/s

95th percentile per-packet one-way delay: 53.895 ms

Loss rate: 0.36%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-30 13:20:54

End at: 2017-11-30 13:21:24

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.23 Mbit/s

95th percentile per-packet one-way delay: 53.887 ms

Loss rate: 0.00%

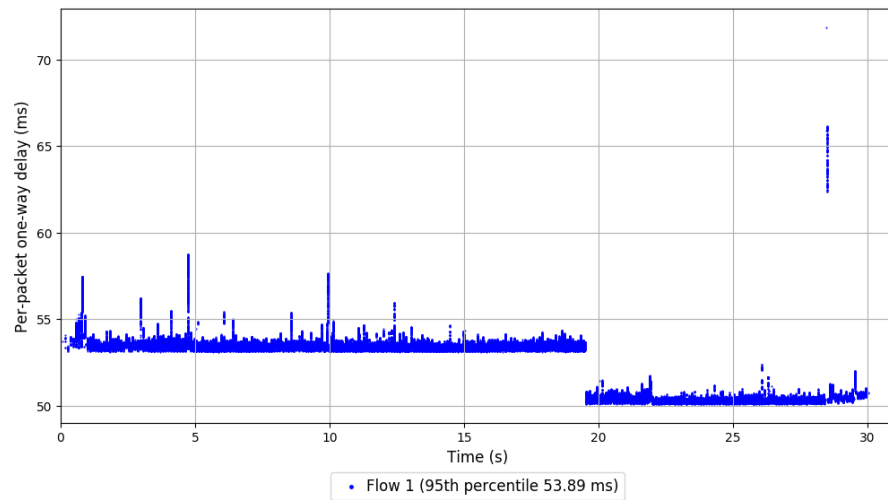
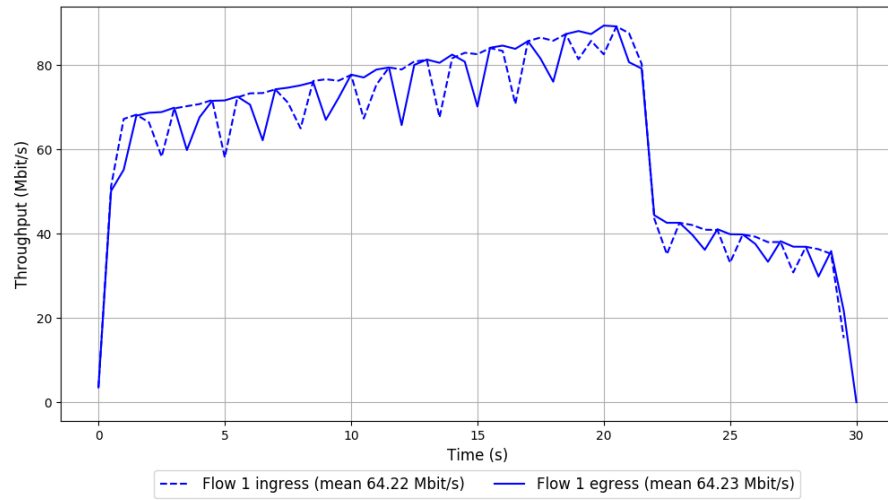
-- Flow 1:

Average throughput: 64.23 Mbit/s

95th percentile per-packet one-way delay: 53.887 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-30 13:31:05

End at: 2017-11-30 13:31:35

Below is generated by plot.py at 2017-11-30 14:57:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 54.013 ms

Loss rate: 0.62%

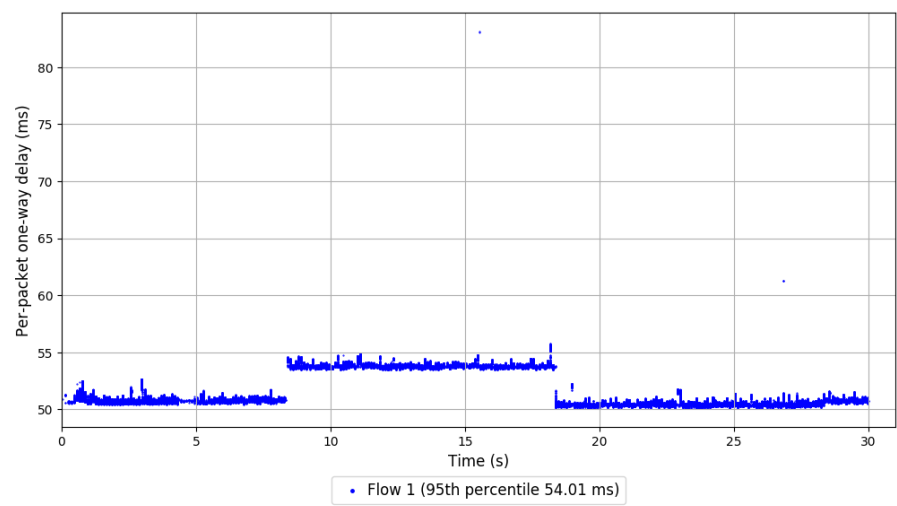
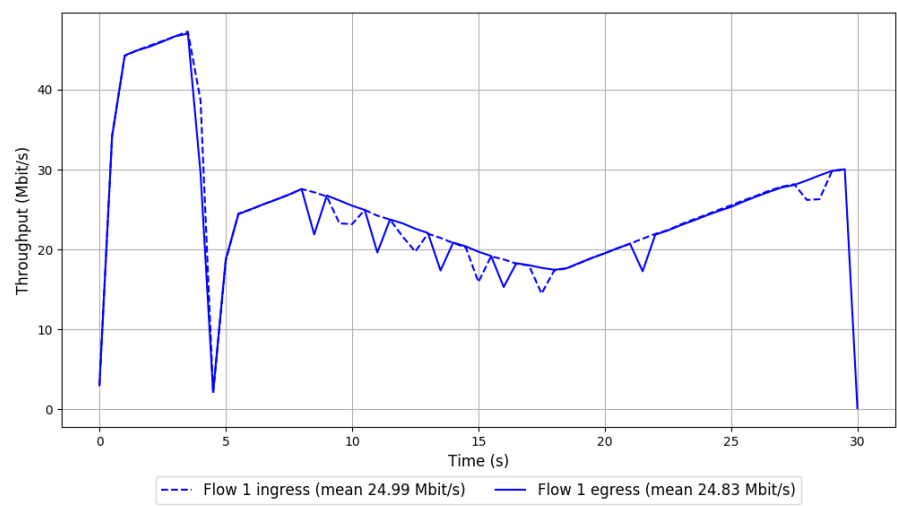
-- Flow 1:

Average throughput: 24.83 Mbit/s

95th percentile per-packet one-way delay: 54.013 ms

Loss rate: 0.62%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-11-30 12:06:19

End at: 2017-11-30 12:06:49

Below is generated by plot.py at 2017-11-30 15:00:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.29 Mbit/s

95th percentile per-packet one-way delay: 213.239 ms

Loss rate: 0.68%

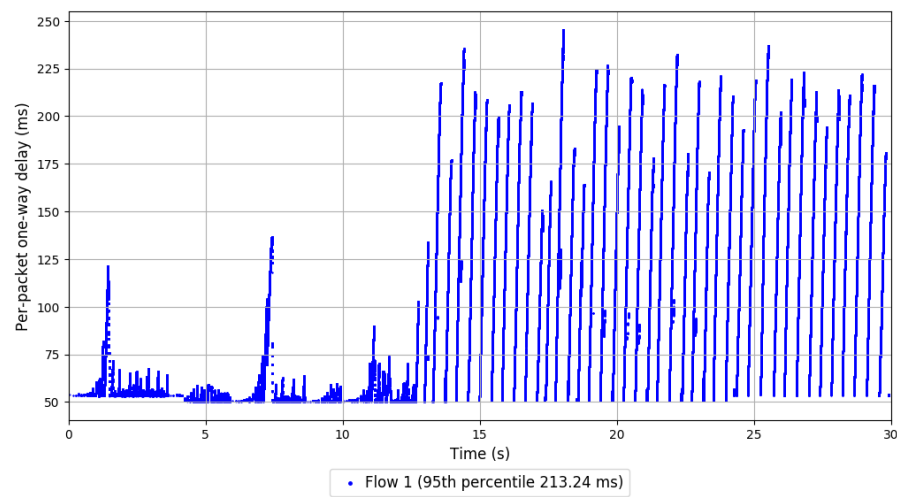
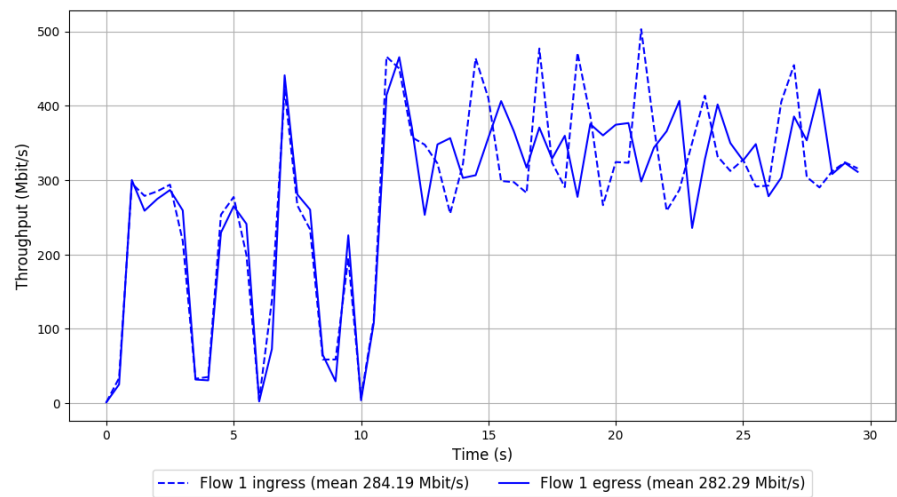
-- Flow 1:

Average throughput: 282.29 Mbit/s

95th percentile per-packet one-way delay: 213.239 ms

Loss rate: 0.68%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-30 12:16:51

End at: 2017-11-30 12:17:21

Below is generated by plot.py at 2017-11-30 15:00:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.24 Mbit/s

95th percentile per-packet one-way delay: 103.504 ms

Loss rate: 0.01%

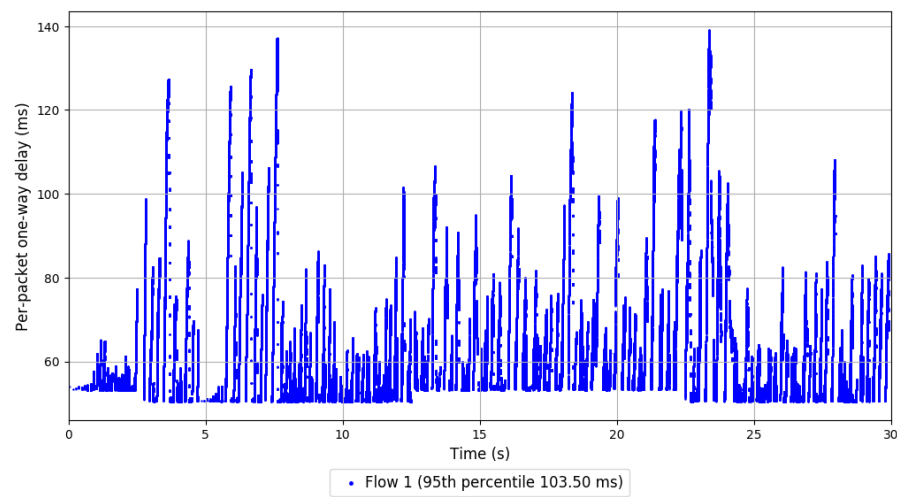
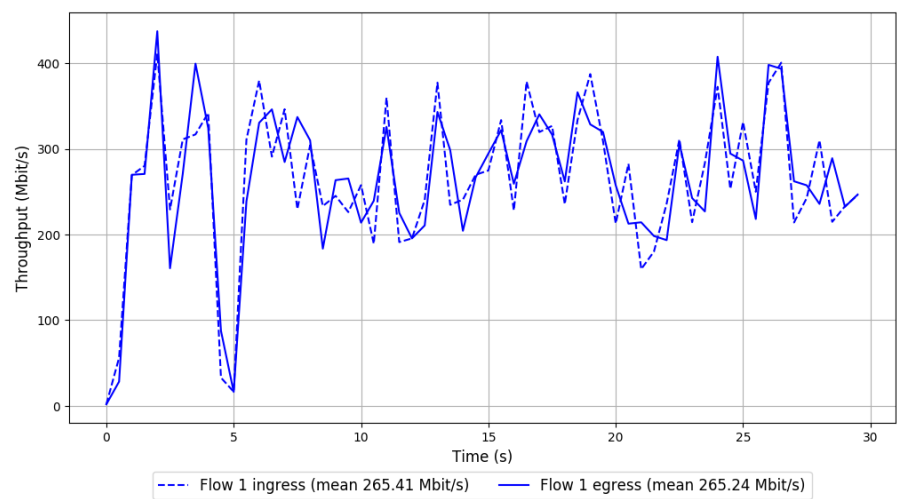
-- Flow 1:

Average throughput: 265.24 Mbit/s

95th percentile per-packet one-way delay: 103.504 ms

Loss rate: 0.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-30 12:27:07

End at: 2017-11-30 12:27:37

Below is generated by plot.py at 2017-11-30 15:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.58 Mbit/s

95th percentile per-packet one-way delay: 71.986 ms

Loss rate: 0.27%

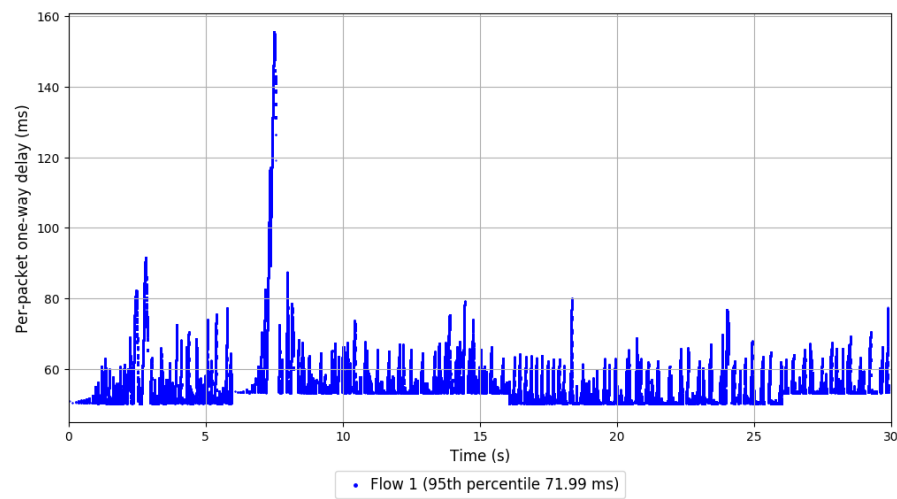
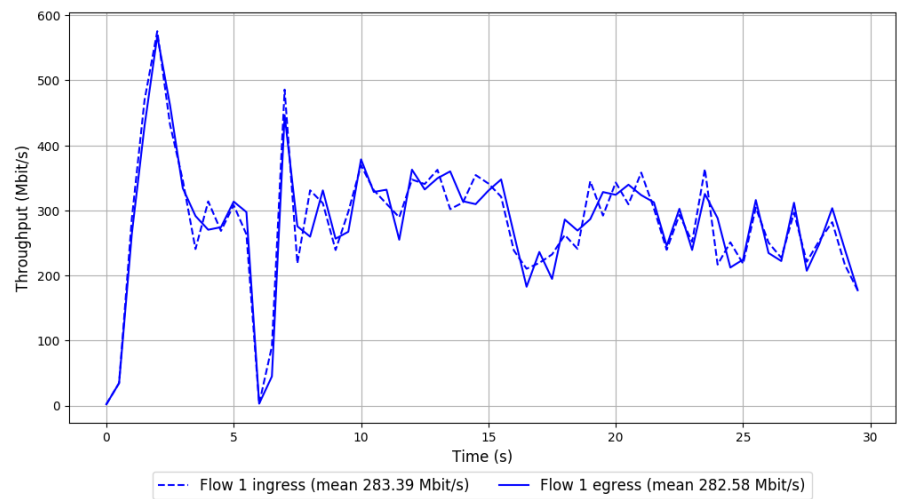
-- Flow 1:

Average throughput: 282.58 Mbit/s

95th percentile per-packet one-way delay: 71.986 ms

Loss rate: 0.27%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-30 12:37:22

End at: 2017-11-30 12:37:52

Below is generated by plot.py at 2017-11-30 15:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.05 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.30%

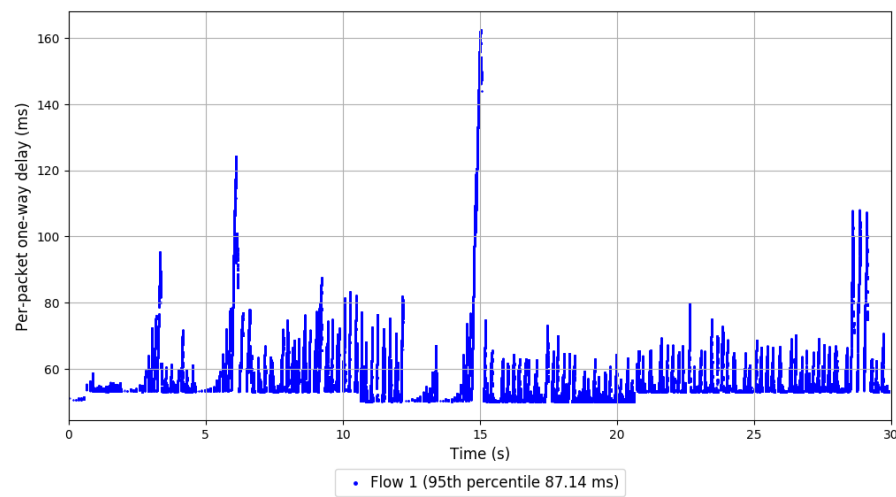
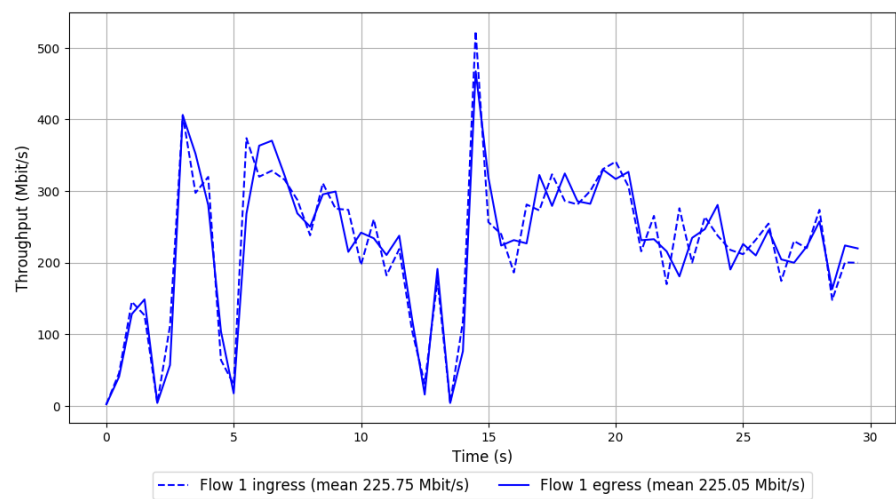
-- Flow 1:

Average throughput: 225.05 Mbit/s

95th percentile per-packet one-way delay: 87.140 ms

Loss rate: 0.30%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-30 12:47:44

End at: 2017-11-30 12:48:14

Below is generated by plot.py at 2017-11-30 15:00:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.38 Mbit/s

95th percentile per-packet one-way delay: 87.678 ms

Loss rate: 0.00%

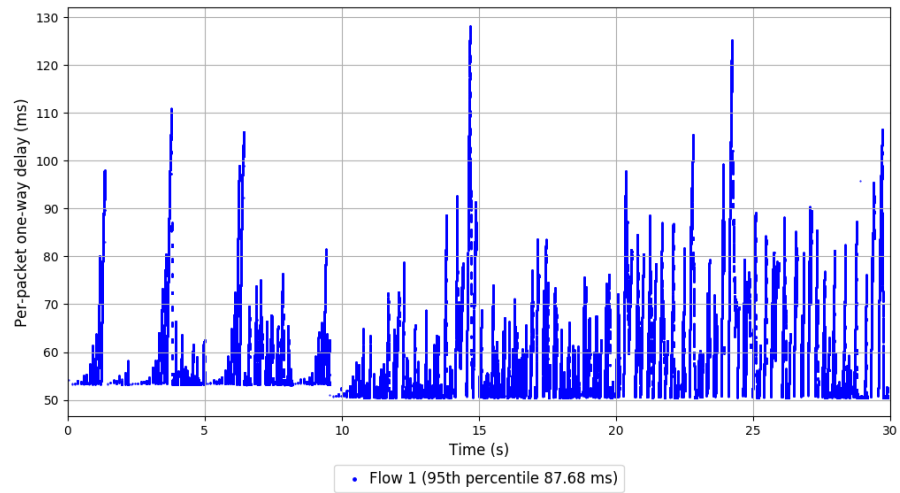
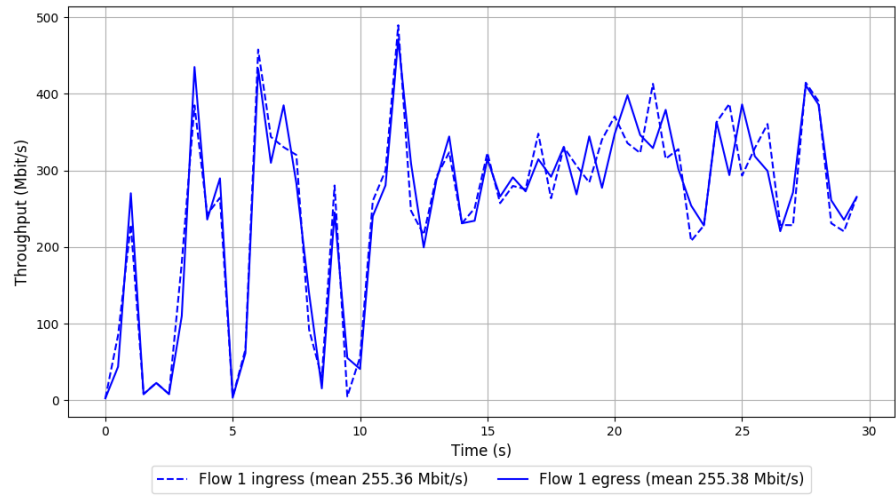
-- Flow 1:

Average throughput: 255.38 Mbit/s

95th percentile per-packet one-way delay: 87.678 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-11-30 12:58:10

End at: 2017-11-30 12:58:40

Below is generated by plot.py at 2017-11-30 15:00:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.77 Mbit/s

95th percentile per-packet one-way delay: 103.374 ms

Loss rate: 0.03%

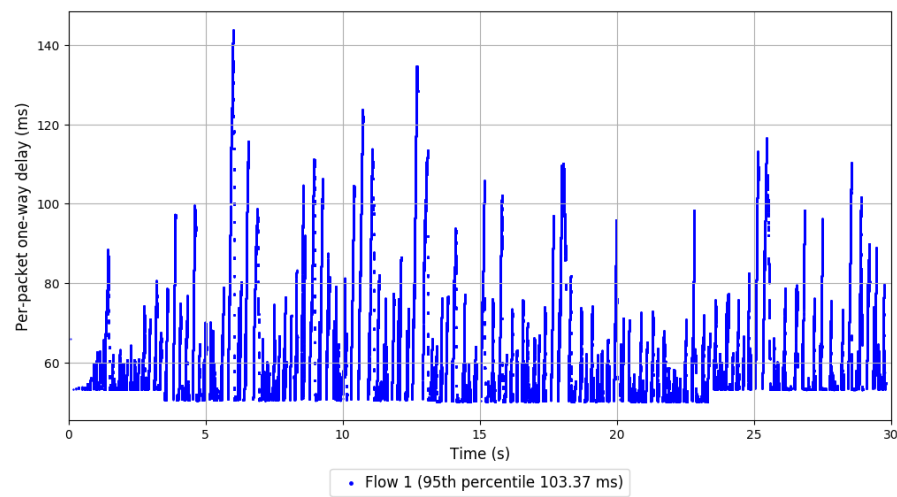
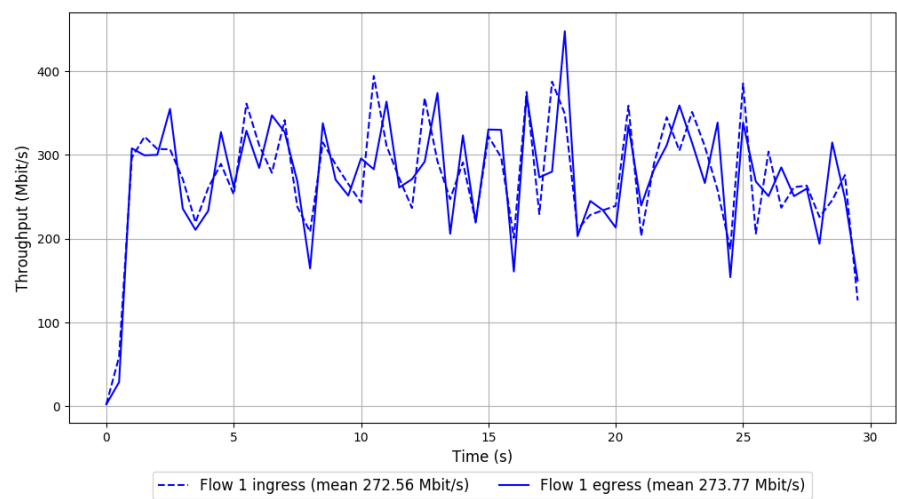
-- Flow 1:

Average throughput: 273.77 Mbit/s

95th percentile per-packet one-way delay: 103.374 ms

Loss rate: 0.03%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-11-30 13:08:28

End at: 2017-11-30 13:08:58

Below is generated by plot.py at 2017-11-30 15:00:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.70 Mbit/s

95th percentile per-packet one-way delay: 76.672 ms

Loss rate: 0.01%

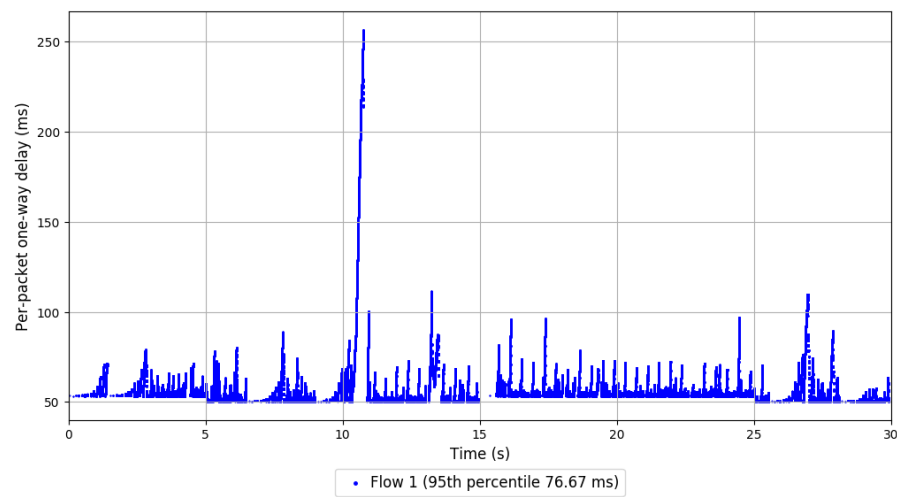
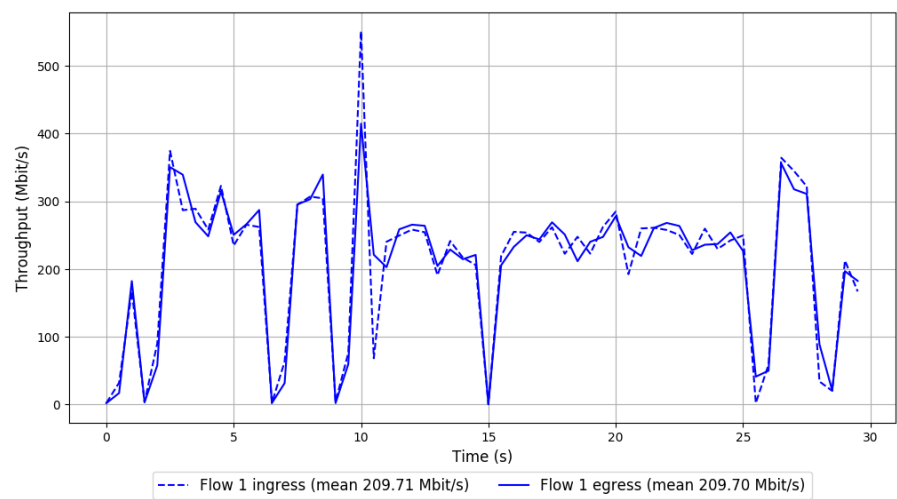
-- Flow 1:

Average throughput: 209.70 Mbit/s

95th percentile per-packet one-way delay: 76.672 ms

Loss rate: 0.01%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-11-30 13:18:34

End at: 2017-11-30 13:19:04

Below is generated by plot.py at 2017-11-30 15:02:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.20 Mbit/s

95th percentile per-packet one-way delay: 71.287 ms

Loss rate: 0.05%

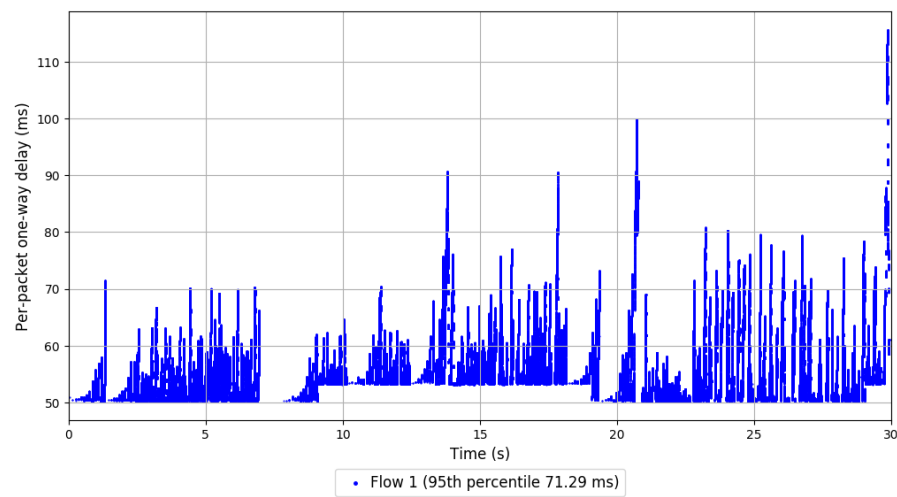
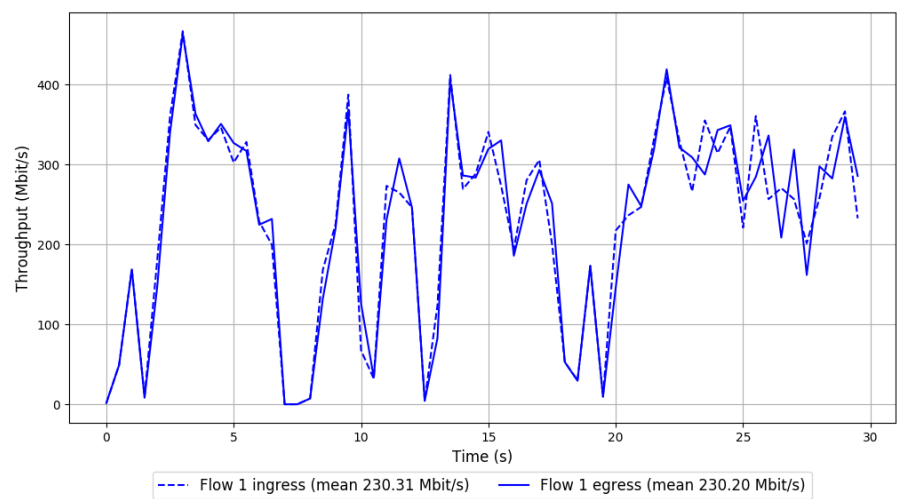
-- Flow 1:

Average throughput: 230.20 Mbit/s

95th percentile per-packet one-way delay: 71.287 ms

Loss rate: 0.05%

Run 8: Report of Verus — Data Link

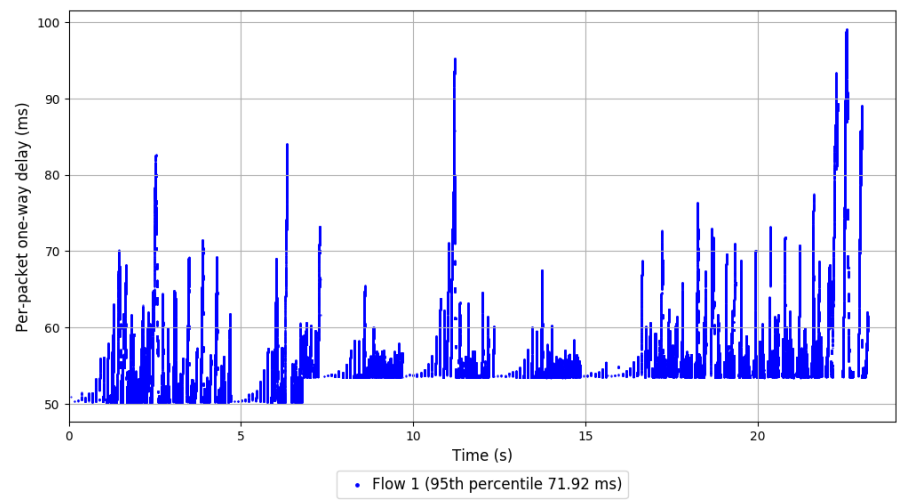
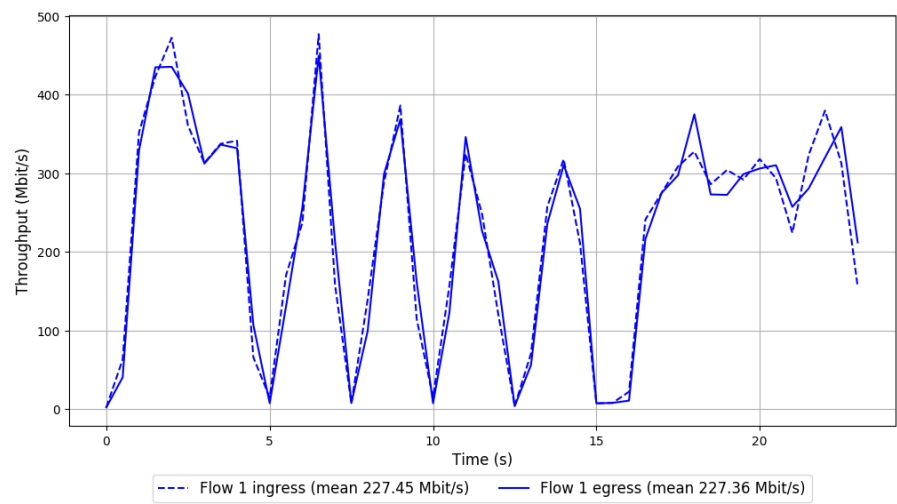


Run 9: Statistics of Verus

Start at: 2017-11-30 13:28:50

End at: 2017-11-30 13:29:20

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-11-30 13:39:08

End at: 2017-11-30 13:39:38

Below is generated by plot.py at 2017-11-30 15:04:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.07 Mbit/s

95th percentile per-packet one-way delay: 87.422 ms

Loss rate: 0.00%

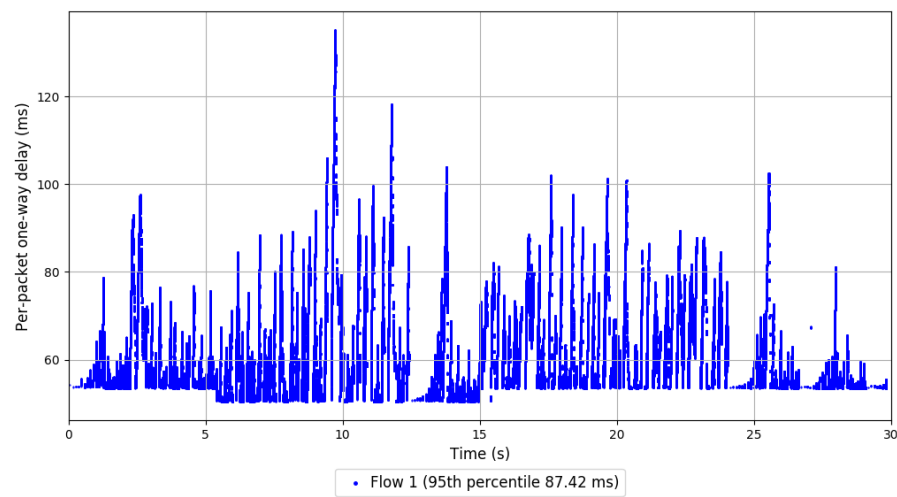
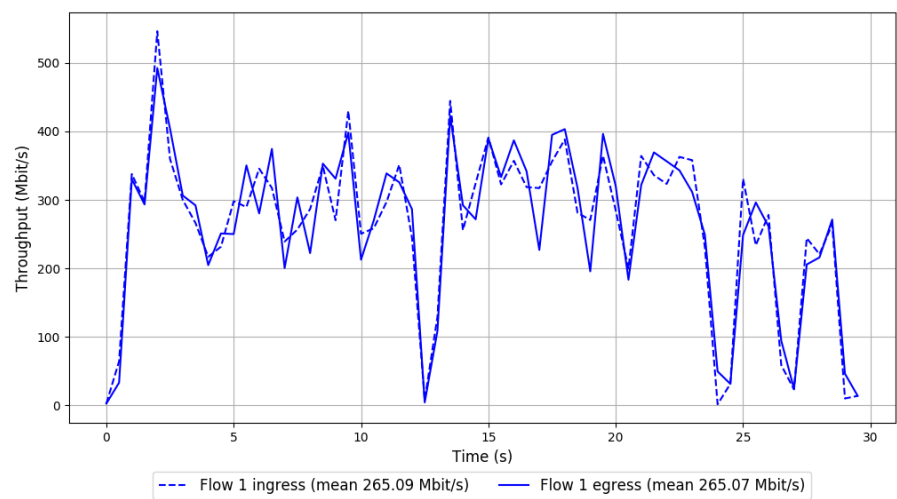
-- Flow 1:

Average throughput: 265.07 Mbit/s

95th percentile per-packet one-way delay: 87.422 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-30 12:07:15

End at: 2017-11-30 12:07:45

Below is generated by plot.py at 2017-11-30 15:04:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.43 Mbit/s

95th percentile per-packet one-way delay: 53.233 ms

Loss rate: 0.00%

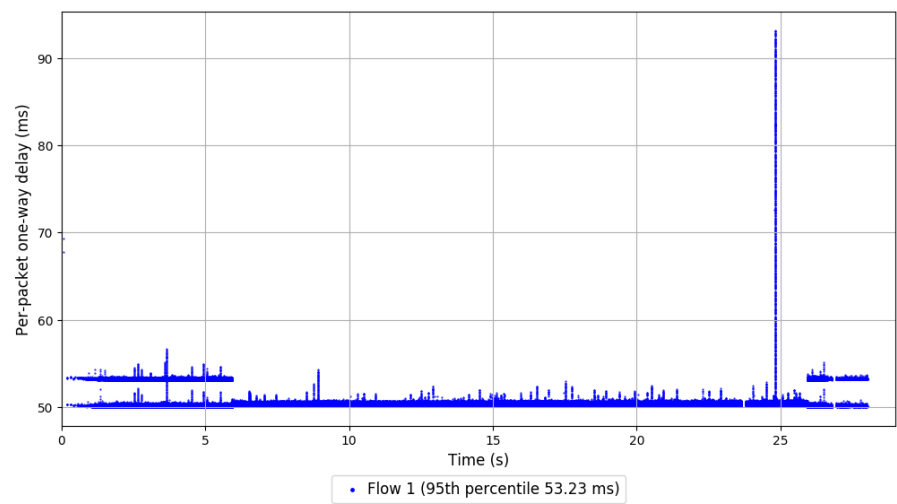
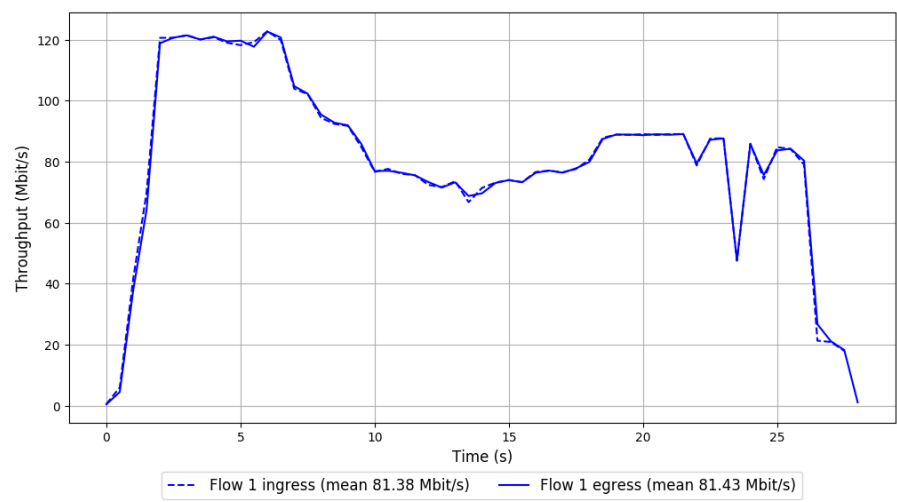
-- Flow 1:

Average throughput: 81.43 Mbit/s

95th percentile per-packet one-way delay: 53.233 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2017-11-30 12:17:45

End at: 2017-11-30 12:18:16

Below is generated by plot.py at 2017-11-30 15:04:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.25 Mbit/s

95th percentile per-packet one-way delay: 53.358 ms

Loss rate: 0.00%

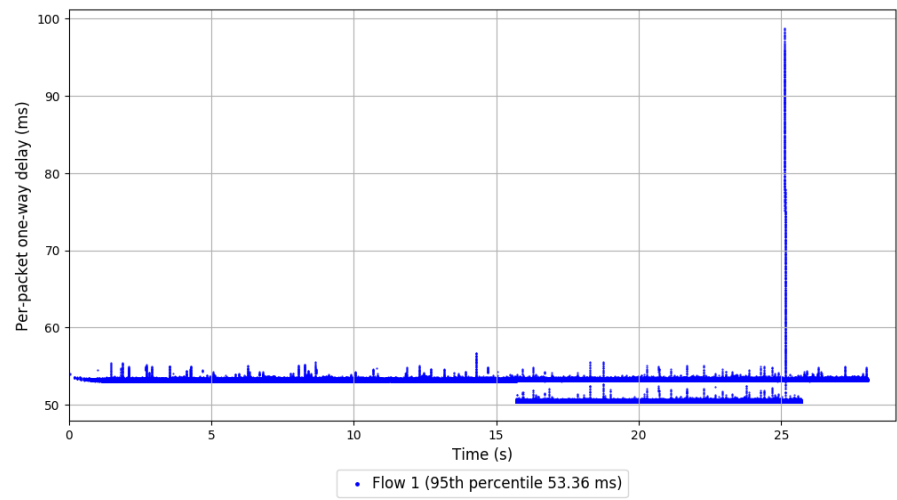
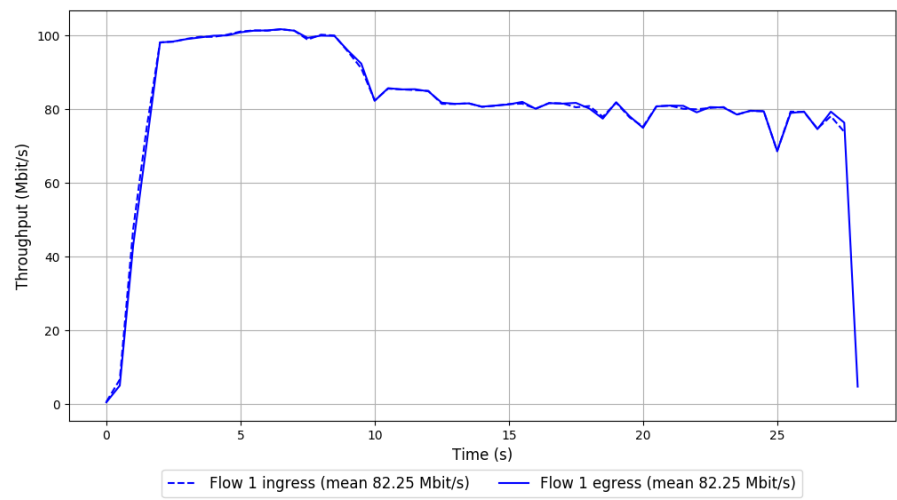
-- Flow 1:

Average throughput: 82.25 Mbit/s

95th percentile per-packet one-way delay: 53.358 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-11-30 12:28:03

End at: 2017-11-30 12:28:33

Below is generated by plot.py at 2017-11-30 15:04:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.08 Mbit/s

95th percentile per-packet one-way delay: 50.669 ms

Loss rate: 0.00%

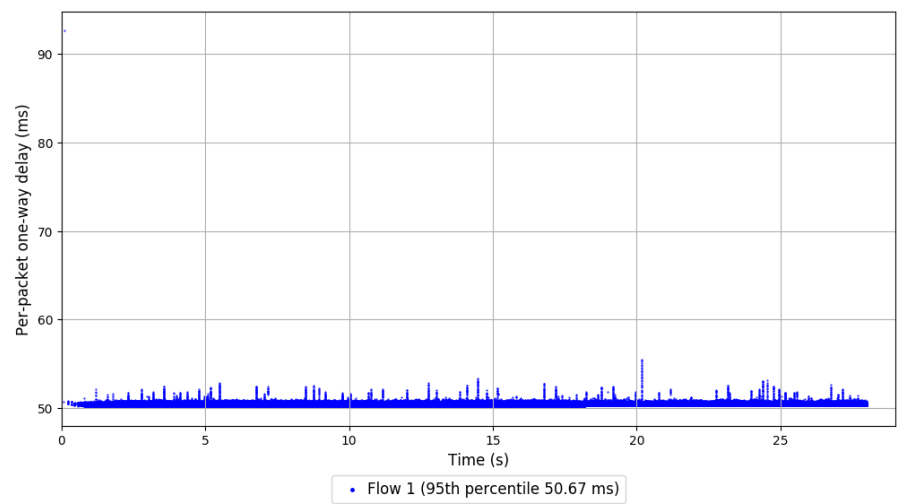
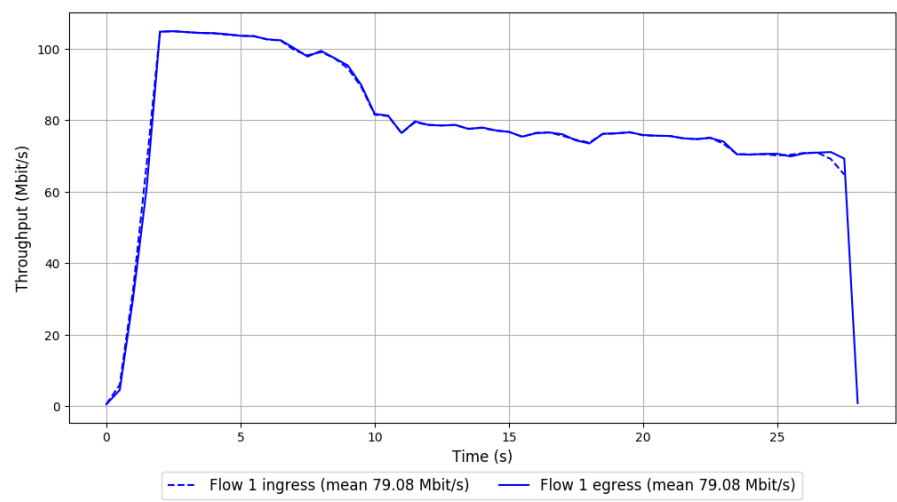
-- Flow 1:

Average throughput: 79.08 Mbit/s

95th percentile per-packet one-way delay: 50.669 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 12:38:15

End at: 2017-11-30 12:38:45

Below is generated by plot.py at 2017-11-30 15:04:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.08 Mbit/s

95th percentile per-packet one-way delay: 53.278 ms

Loss rate: 0.00%

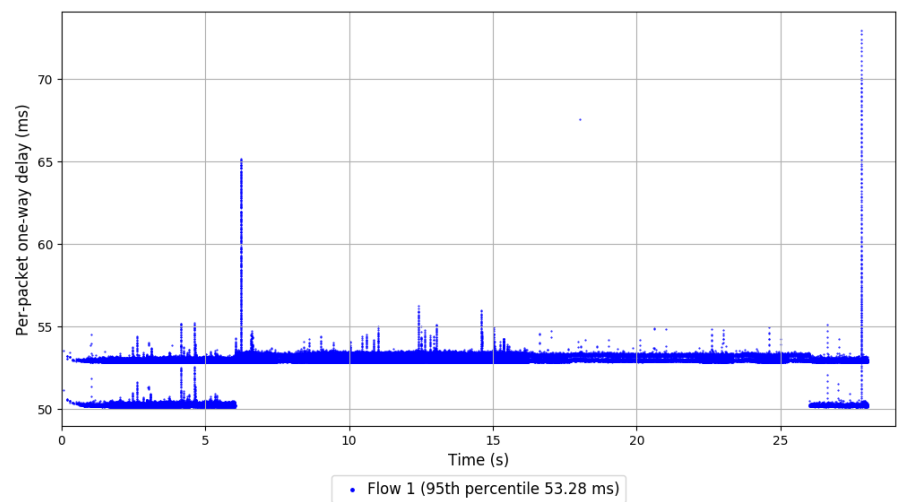
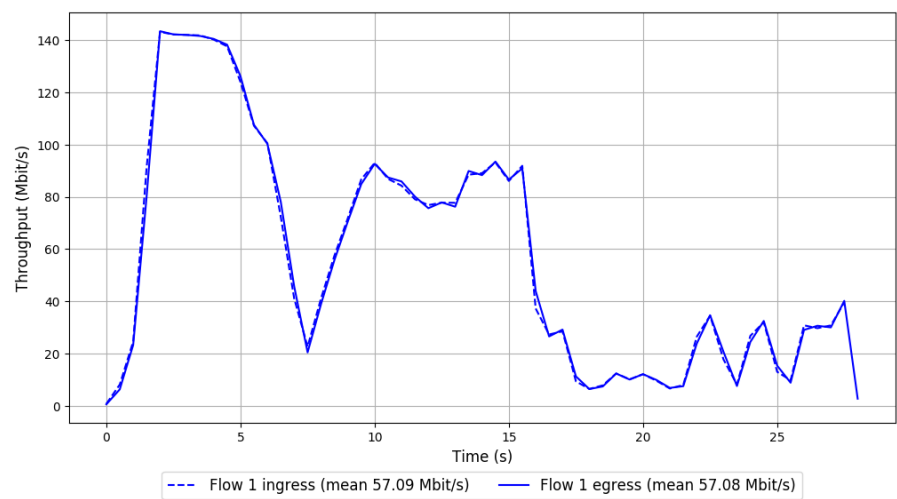
-- Flow 1:

Average throughput: 57.08 Mbit/s

95th percentile per-packet one-way delay: 53.278 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 12:48:38

End at: 2017-11-30 12:49:08

Below is generated by plot.py at 2017-11-30 15:04:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.04 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.00%

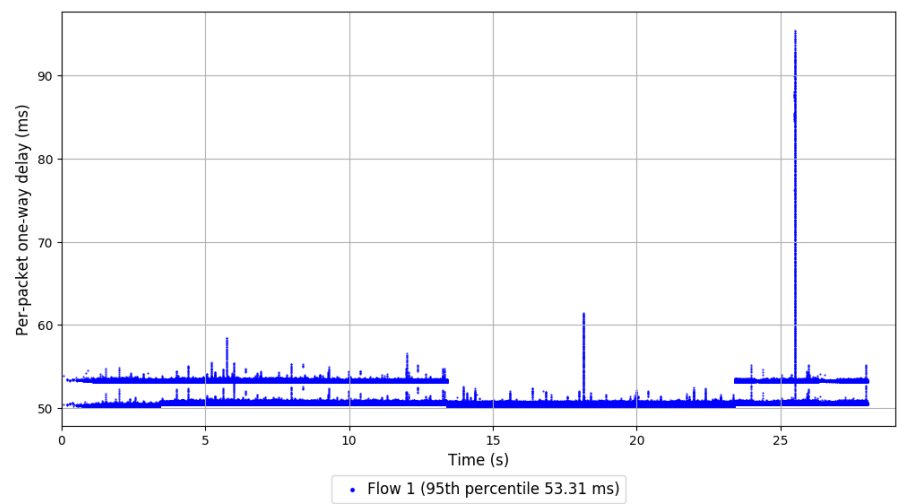
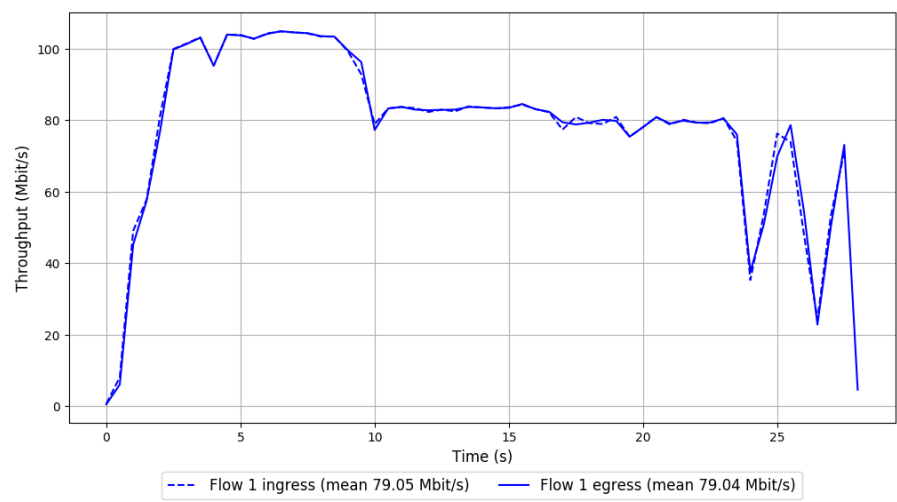
-- Flow 1:

Average throughput: 79.04 Mbit/s

95th percentile per-packet one-way delay: 53.308 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 12:59:05

End at: 2017-11-30 12:59:35

Below is generated by plot.py at 2017-11-30 15:04:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 53.365 ms

Loss rate: 0.00%

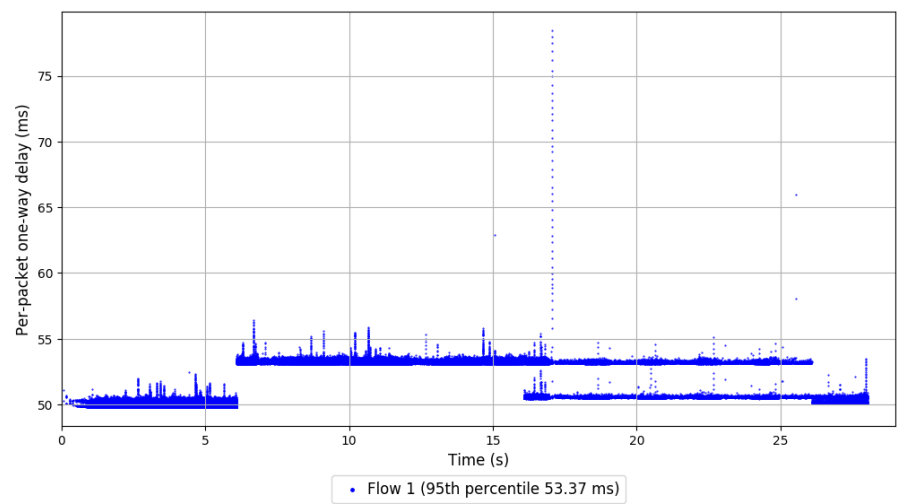
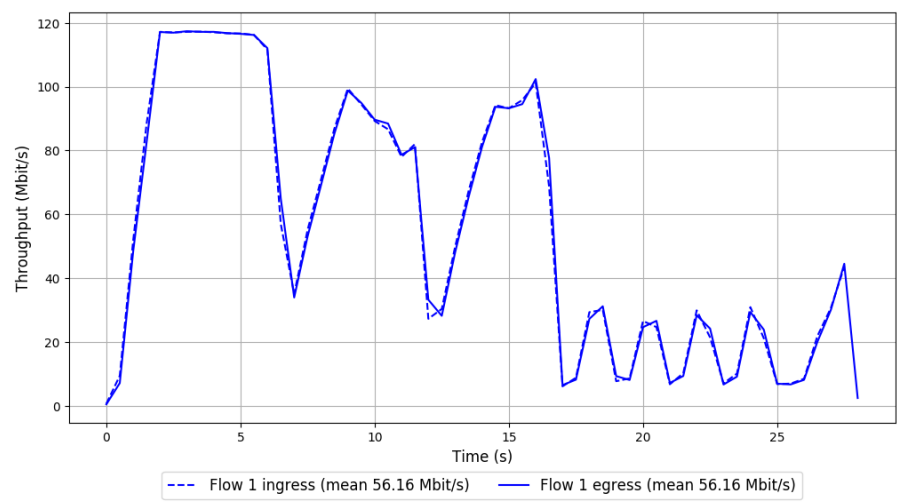
-- Flow 1:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 53.365 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-11-30 13:09:20

End at: 2017-11-30 13:09:50

Below is generated by plot.py at 2017-11-30 15:04:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 53.414 ms

Loss rate: 0.00%

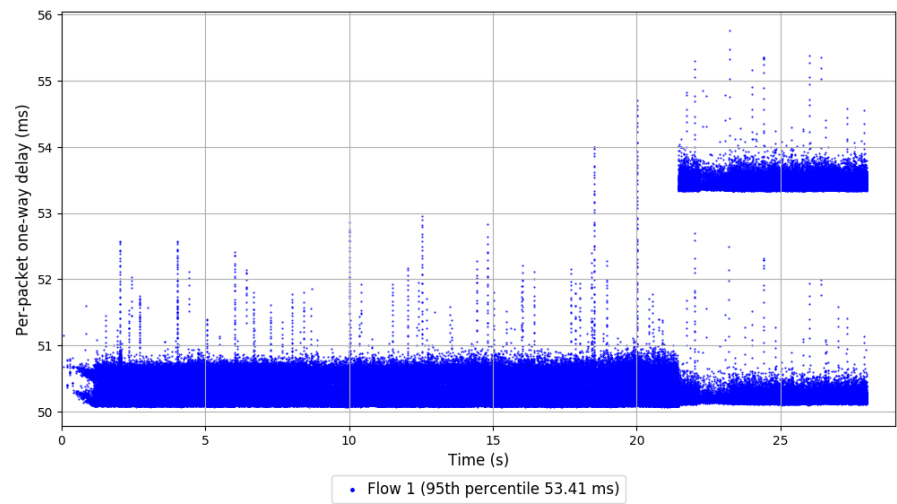
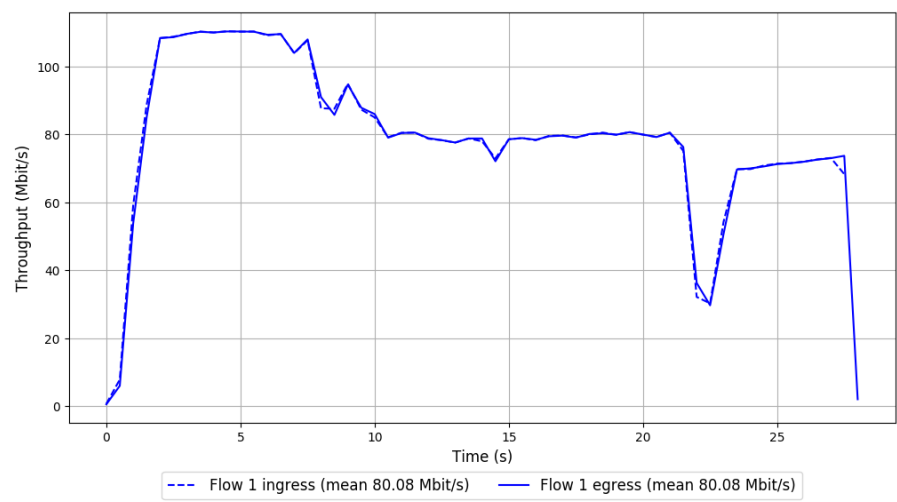
-- Flow 1:

Average throughput: 80.08 Mbit/s

95th percentile per-packet one-way delay: 53.414 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-11-30 13:19:27

End at: 2017-11-30 13:19:57

Below is generated by plot.py at 2017-11-30 15:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.76 Mbit/s

95th percentile per-packet one-way delay: 53.428 ms

Loss rate: 0.00%

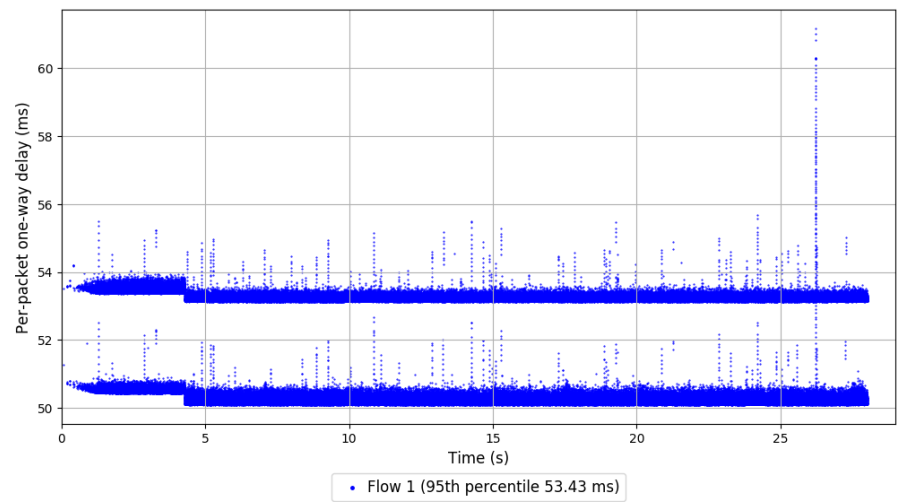
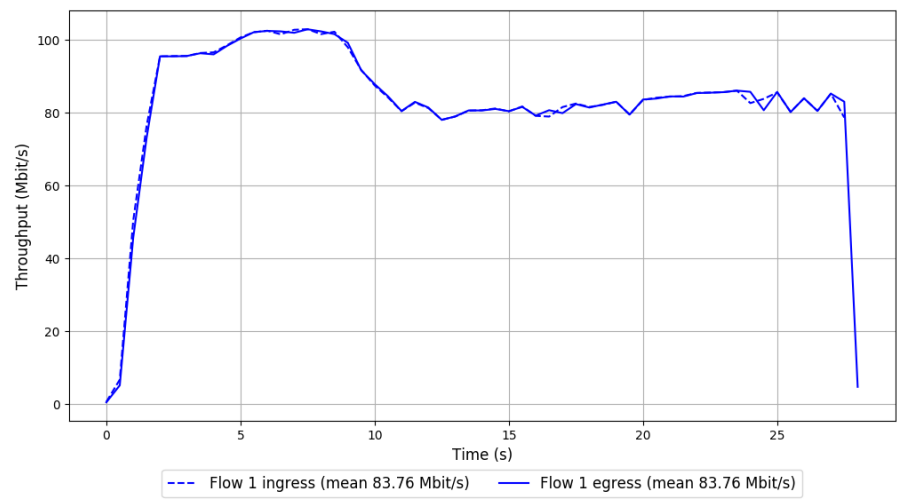
-- Flow 1:

Average throughput: 83.76 Mbit/s

95th percentile per-packet one-way delay: 53.428 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-11-30 13:29:39

End at: 2017-11-30 13:30:09

Below is generated by plot.py at 2017-11-30 15:05:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 50.601 ms

Loss rate: 0.00%

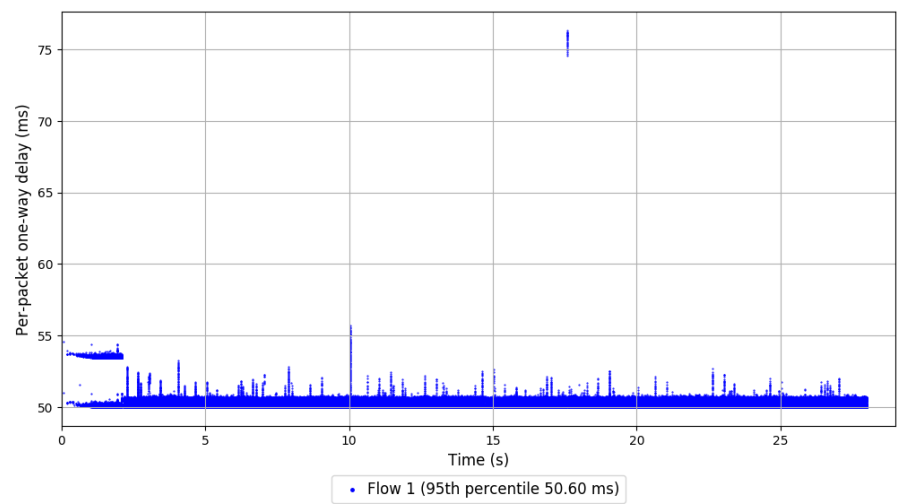
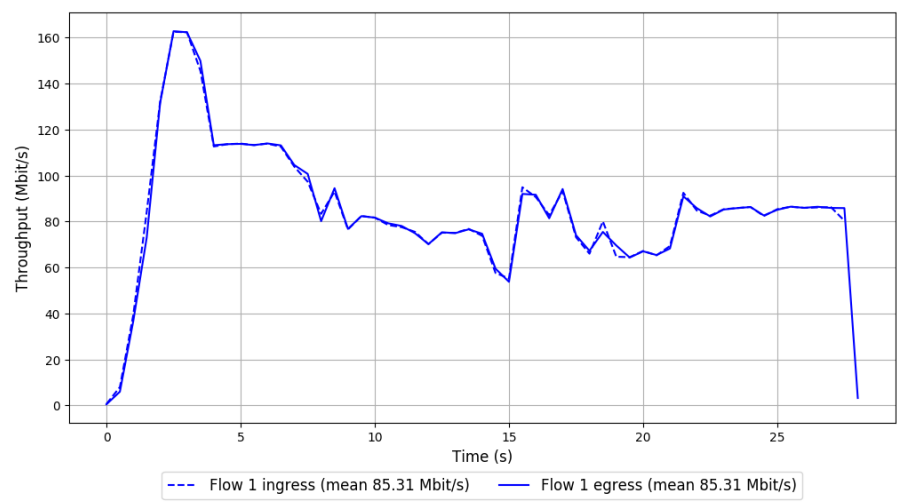
-- Flow 1:

Average throughput: 85.31 Mbit/s

95th percentile per-packet one-way delay: 50.601 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2017-11-30 13:40:03

End at: 2017-11-30 13:40:33

Below is generated by plot.py at 2017-11-30 15:05:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.40 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.00%

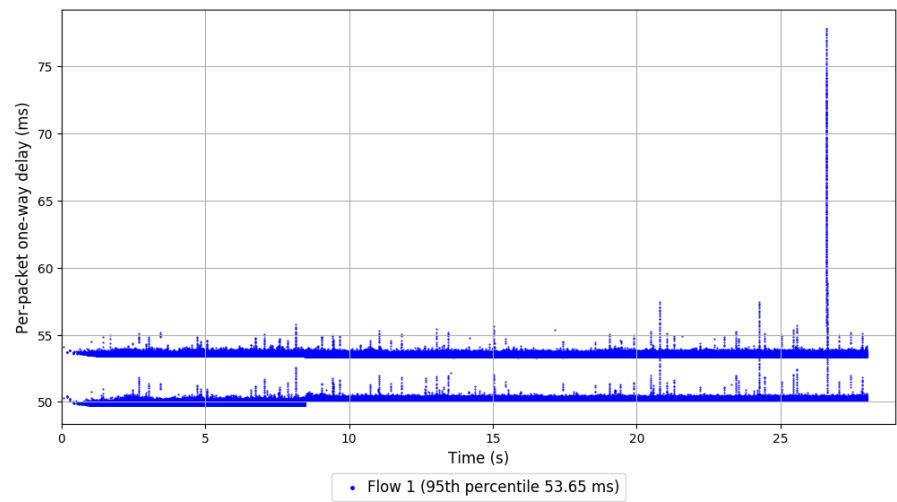
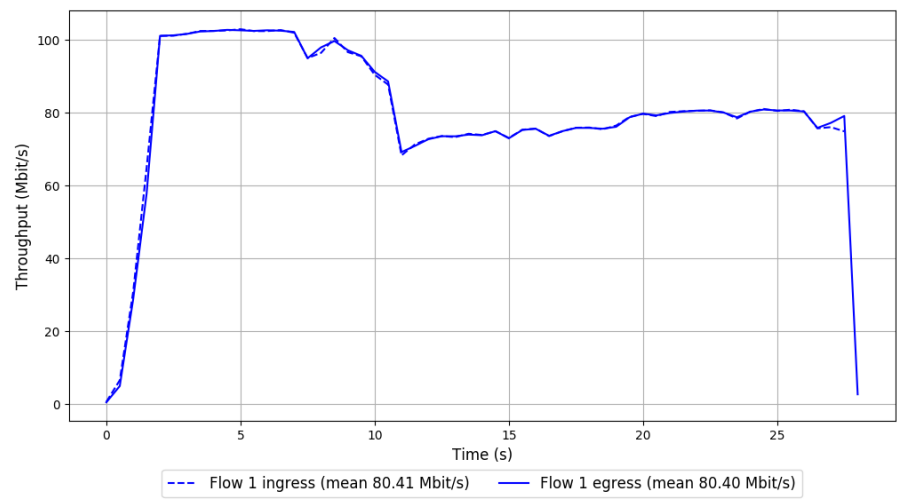
-- Flow 1:

Average throughput: 80.40 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

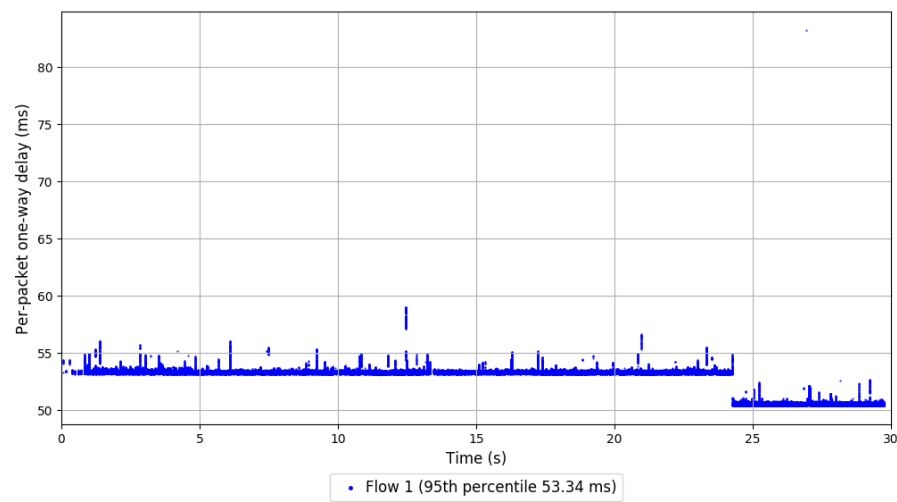
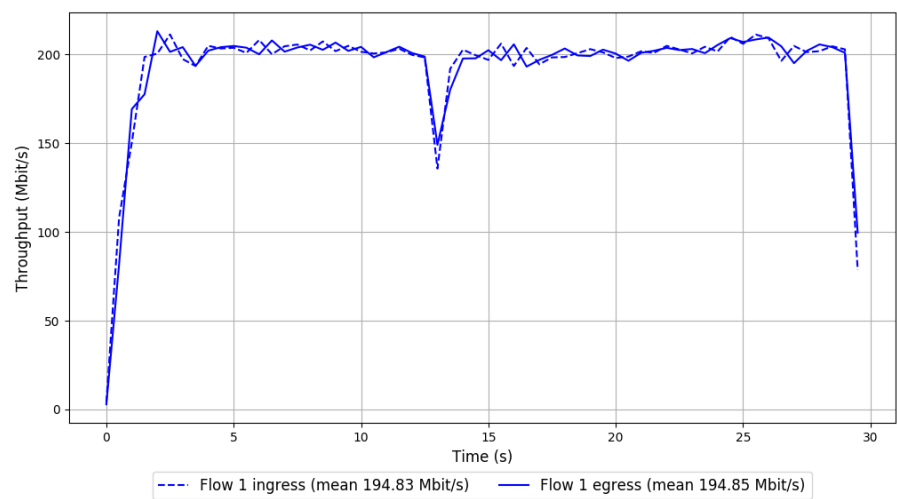


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 12:05:29
End at: 2017-11-30 12:05:59

# Below is generated by plot.py at 2017-11-30 15:06:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 194.85 Mbit/s
95th percentile per-packet one-way delay: 53.345 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.85 Mbit/s
95th percentile per-packet one-way delay: 53.345 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link

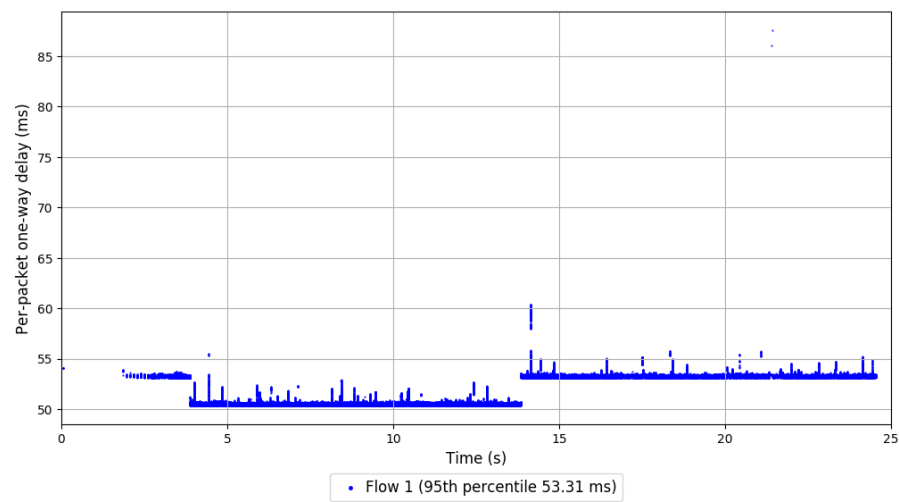
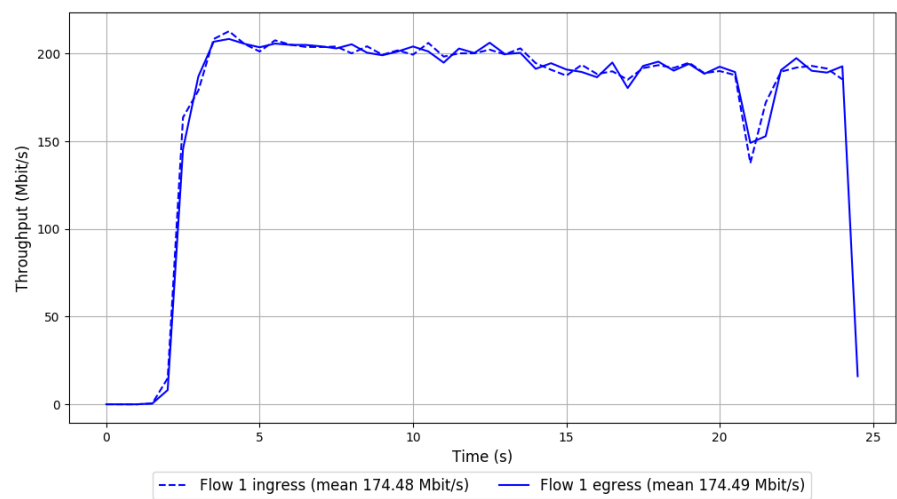


```
Run 2: Statistics of Indigo

Start at: 2017-11-30 12:16:04
End at: 2017-11-30 12:16:34

# Below is generated by plot.py at 2017-11-30 15:06:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 174.49 Mbit/s
95th percentile per-packet one-way delay: 53.312 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 174.49 Mbit/s
95th percentile per-packet one-way delay: 53.312 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-11-30 12:26:17

End at: 2017-11-30 12:26:47

Below is generated by plot.py at 2017-11-30 15:07:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.80 Mbit/s

95th percentile per-packet one-way delay: 53.348 ms

Loss rate: 0.00%

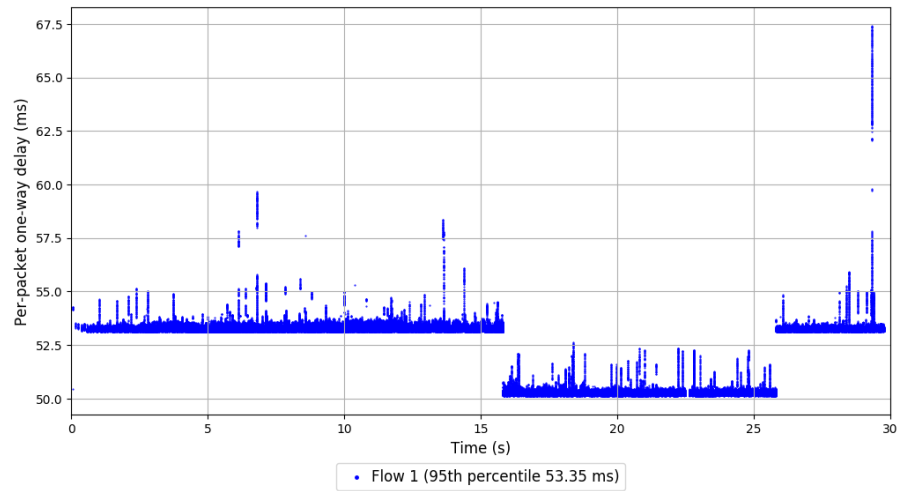
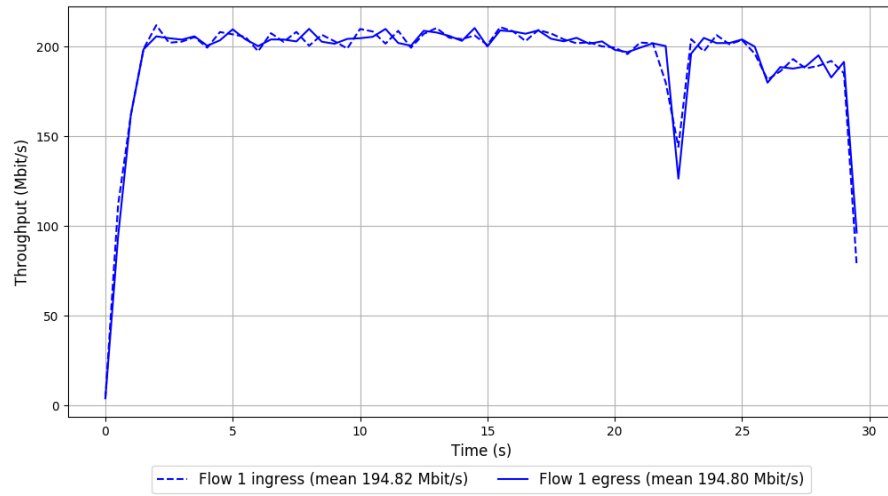
-- Flow 1:

Average throughput: 194.80 Mbit/s

95th percentile per-packet one-way delay: 53.348 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 12:36:33

End at: 2017-11-30 12:37:03

Below is generated by plot.py at 2017-11-30 15:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.50 Mbit/s

95th percentile per-packet one-way delay: 53.293 ms

Loss rate: 0.00%

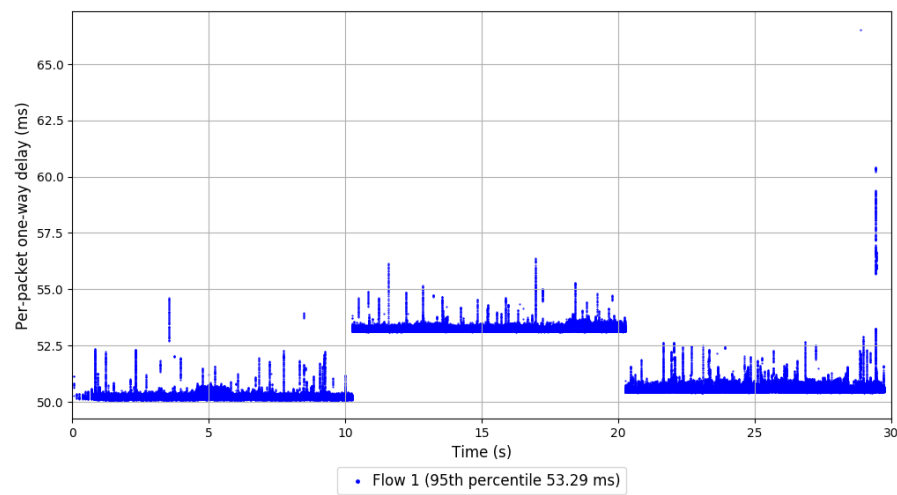
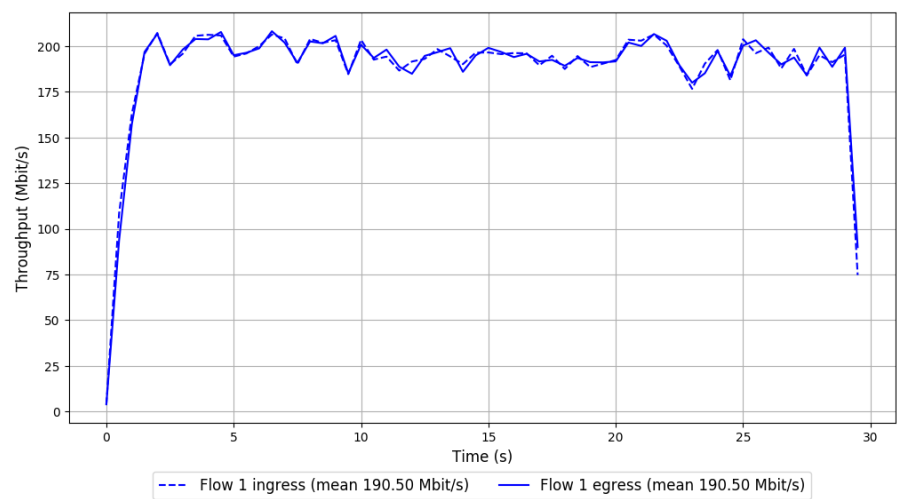
-- Flow 1:

Average throughput: 190.50 Mbit/s

95th percentile per-packet one-way delay: 53.293 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

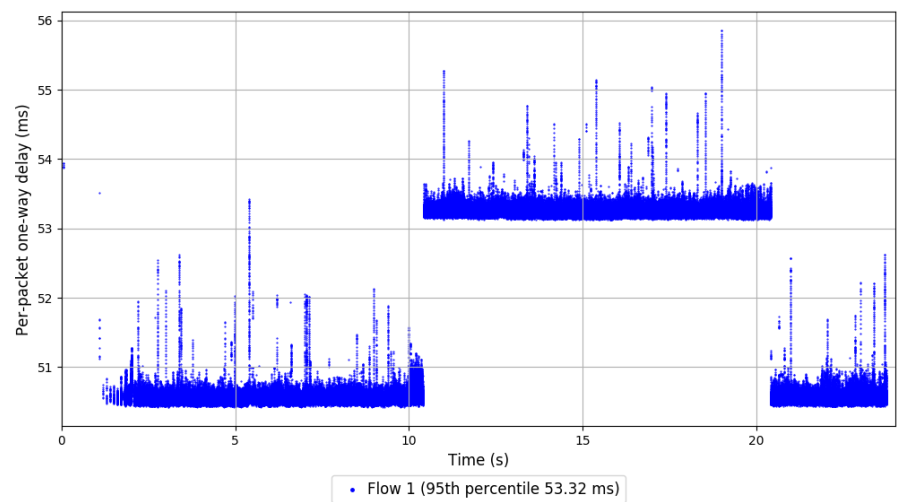
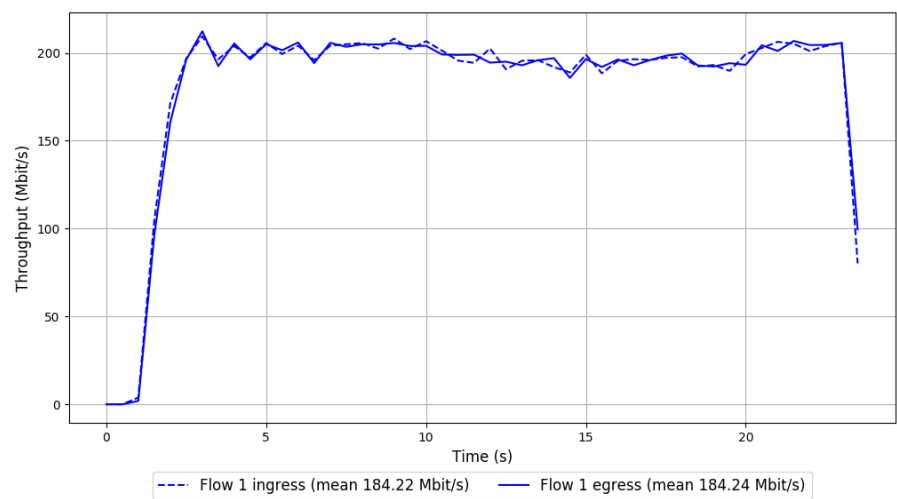


Run 5: Statistics of Indigo

Start at: 2017-11-30 12:46:57

End at: 2017-11-30 12:47:27

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 12:57:23

End at: 2017-11-30 12:57:53

Below is generated by plot.py at 2017-11-30 15:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.94 Mbit/s

95th percentile per-packet one-way delay: 53.334 ms

Loss rate: 0.01%

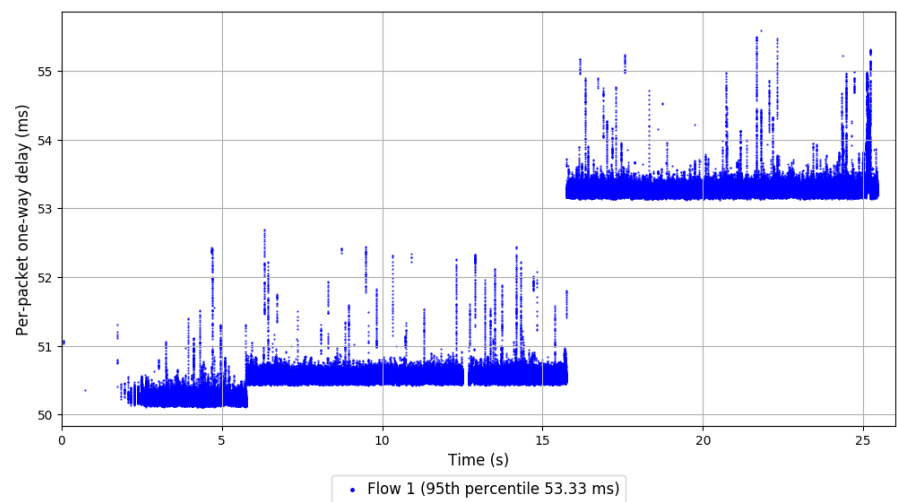
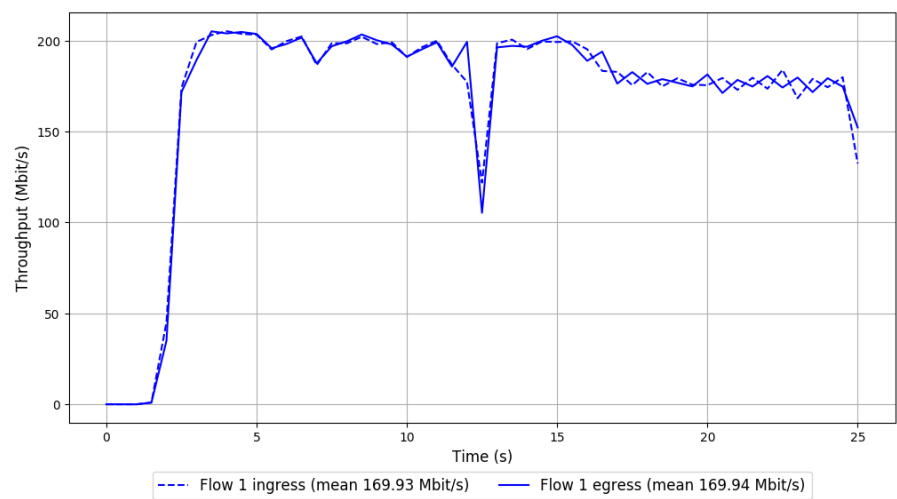
-- Flow 1:

Average throughput: 169.94 Mbit/s

95th percentile per-packet one-way delay: 53.334 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-30 13:07:42

End at: 2017-11-30 13:08:12

Below is generated by plot.py at 2017-11-30 15:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.02 Mbit/s

95th percentile per-packet one-way delay: 53.337 ms

Loss rate: 0.00%

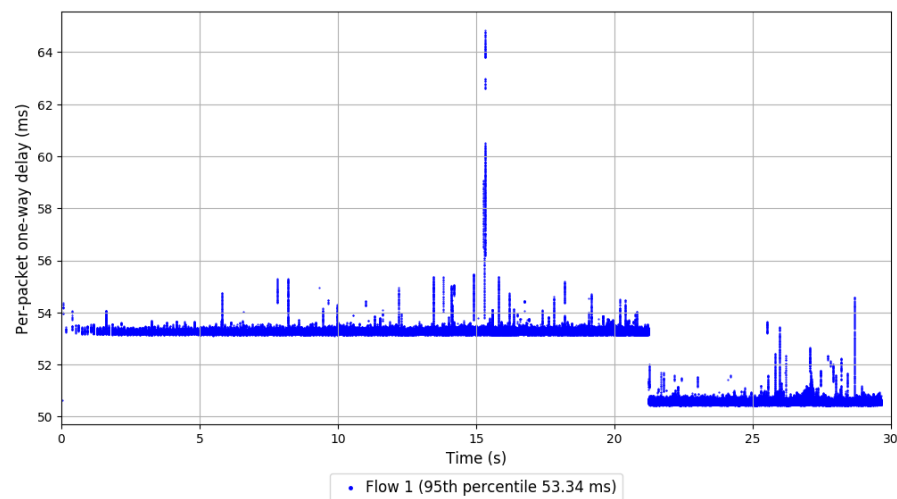
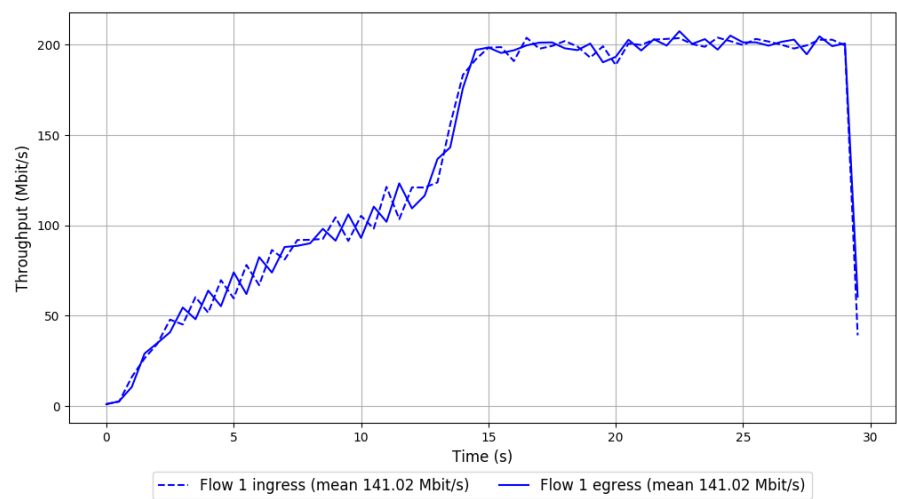
-- Flow 1:

Average throughput: 141.02 Mbit/s

95th percentile per-packet one-way delay: 53.337 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

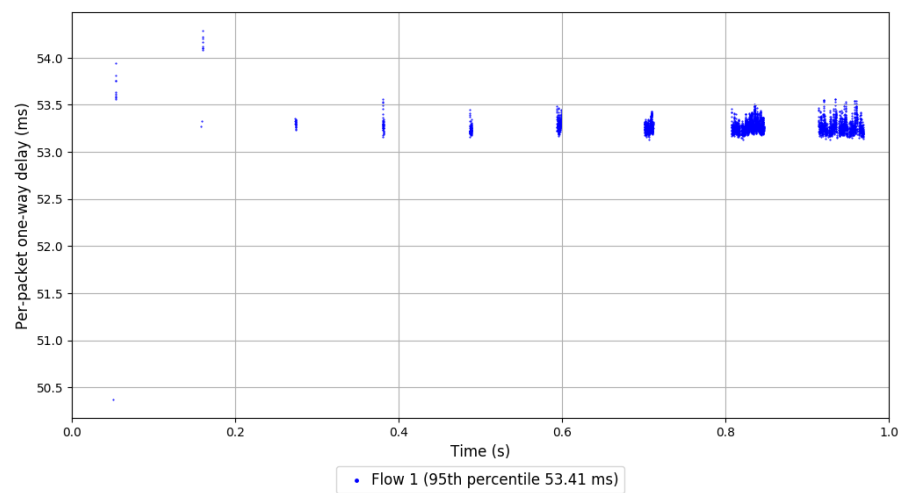
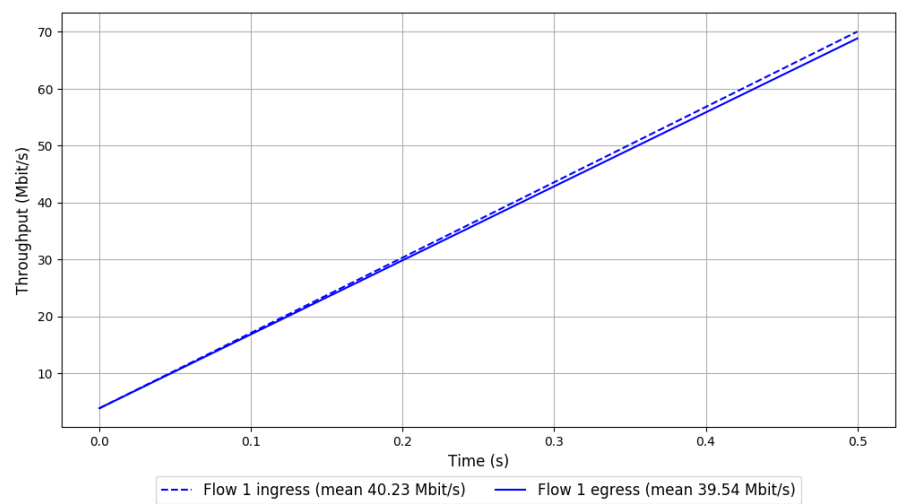


Run 8: Statistics of Indigo

Start at: 2017-11-30 13:17:57

End at: 2017-11-30 13:18:27

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-11-30 13:27:59

End at: 2017-11-30 13:28:29

Below is generated by plot.py at 2017-11-30 15:08:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.13 Mbit/s

95th percentile per-packet one-way delay: 53.529 ms

Loss rate: 0.06%

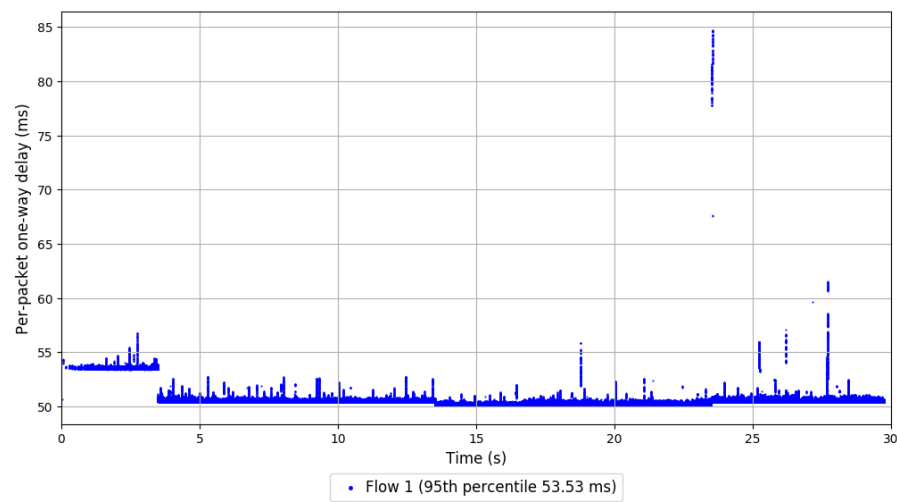
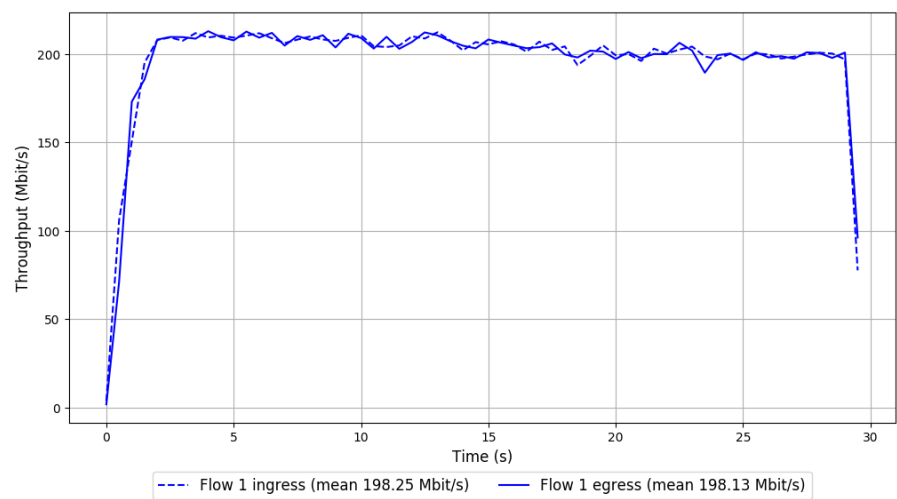
-- Flow 1:

Average throughput: 198.13 Mbit/s

95th percentile per-packet one-way delay: 53.529 ms

Loss rate: 0.06%

Run 9: Report of Indigo — Data Link

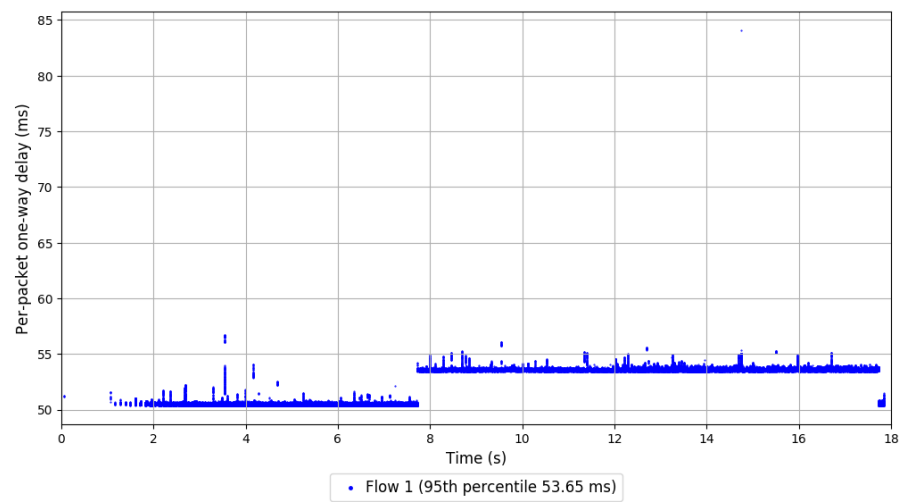
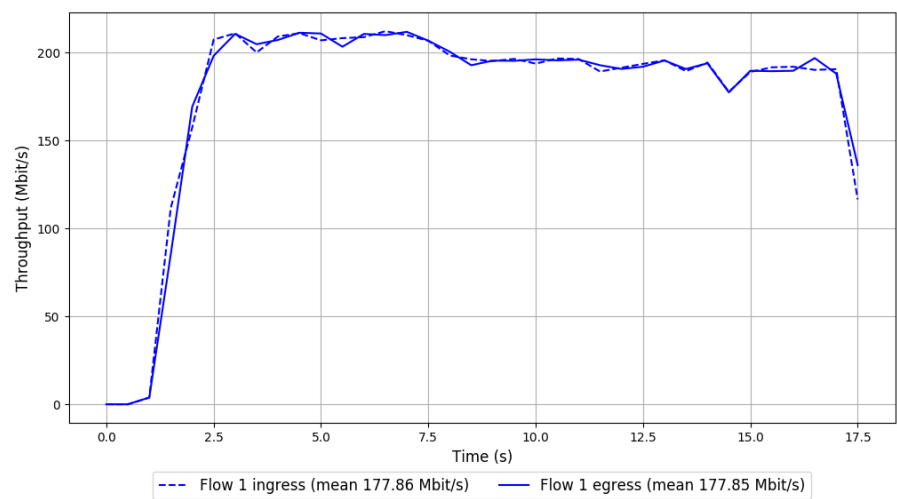


Run 10: Statistics of Indigo

Start at: 2017-11-30 13:38:23

End at: 2017-11-30 13:38:53

Run 10: Report of Indigo — Data Link

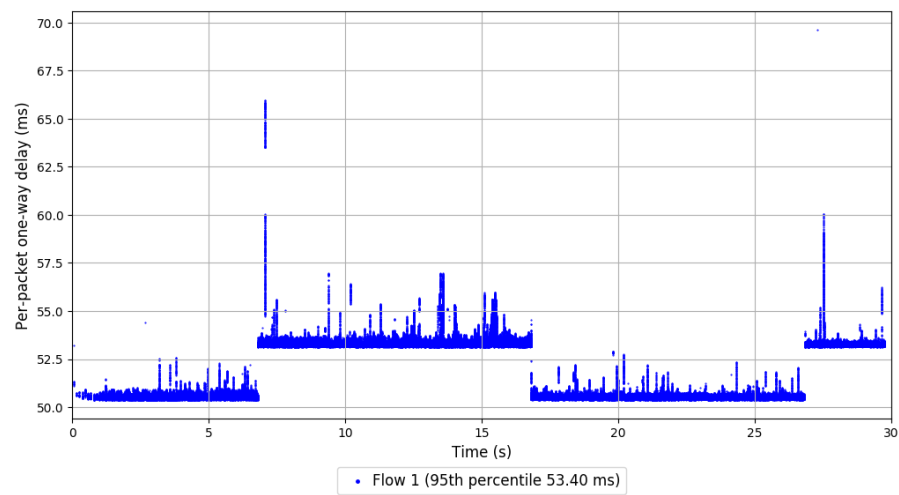
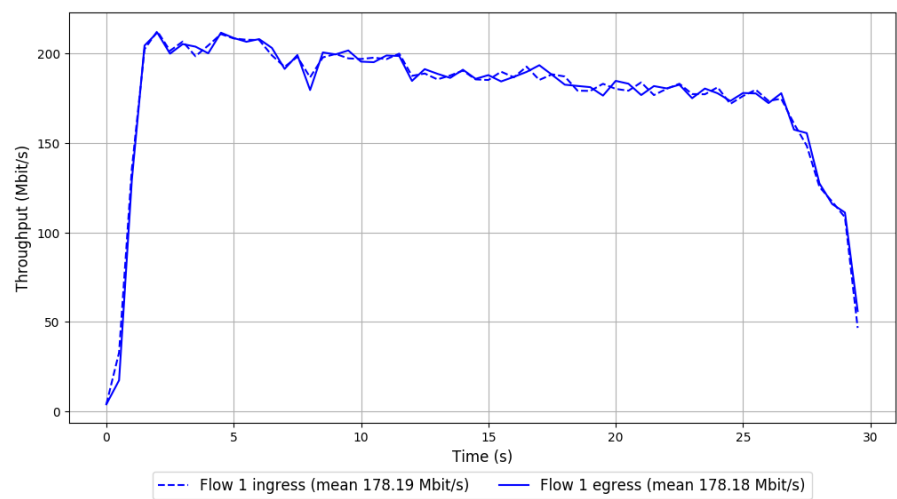


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-30 12:01:46
End at: 2017-11-30 12:02:16

# Below is generated by plot.py at 2017-11-30 15:09:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 178.18 Mbit/s
95th percentile per-packet one-way delay: 53.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 178.18 Mbit/s
95th percentile per-packet one-way delay: 53.402 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link

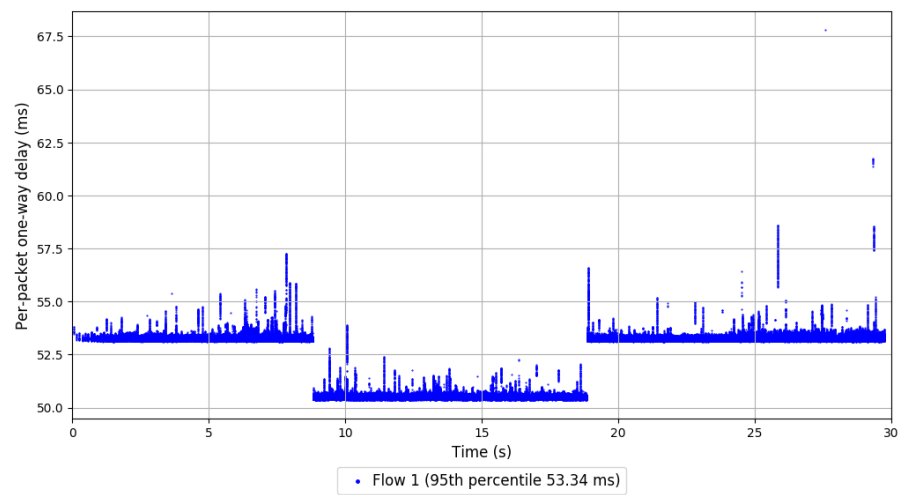
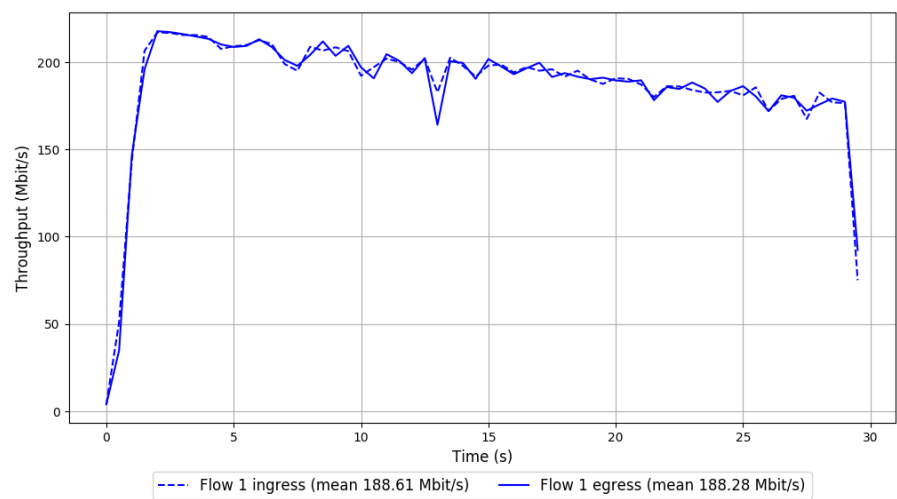


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-30 12:11:54
End at: 2017-11-30 12:12:24

# Below is generated by plot.py at 2017-11-30 15:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.28 Mbit/s
95th percentile per-packet one-way delay: 53.344 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 188.28 Mbit/s
95th percentile per-packet one-way delay: 53.344 ms
Loss rate: 0.18%
```

Run 2: Report of Indigo-calib — Data Link

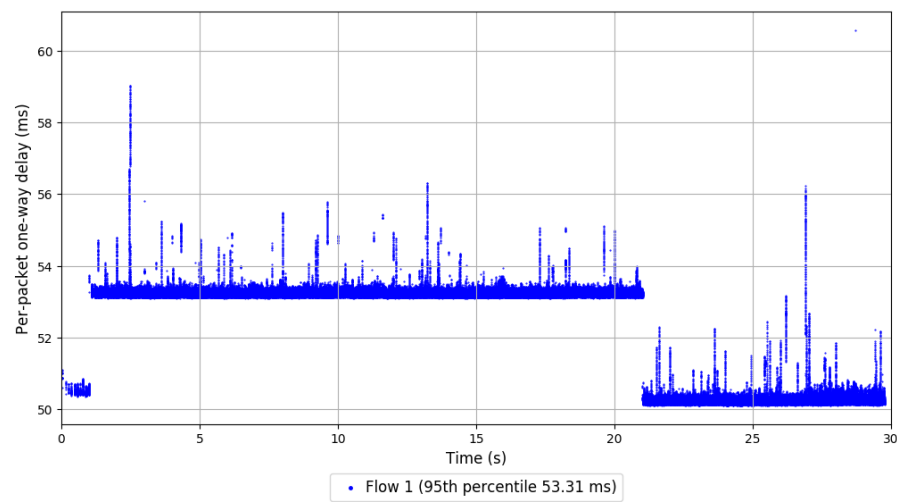
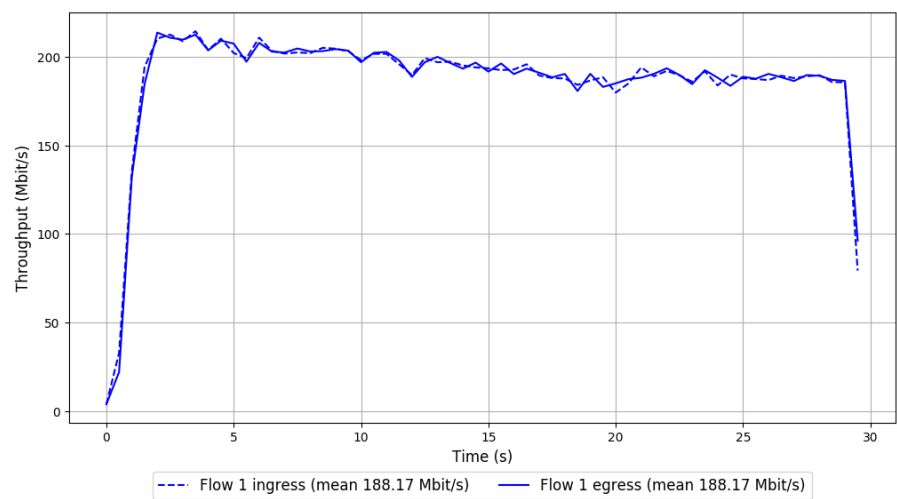


```
Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 12:22:22
End at: 2017-11-30 12:22:52

# Below is generated by plot.py at 2017-11-30 15:10:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.17 Mbit/s
95th percentile per-packet one-way delay: 53.315 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 188.17 Mbit/s
95th percentile per-packet one-way delay: 53.315 ms
Loss rate: 0.00%
```

Run 3: Report of Indigo-calib — Data Link

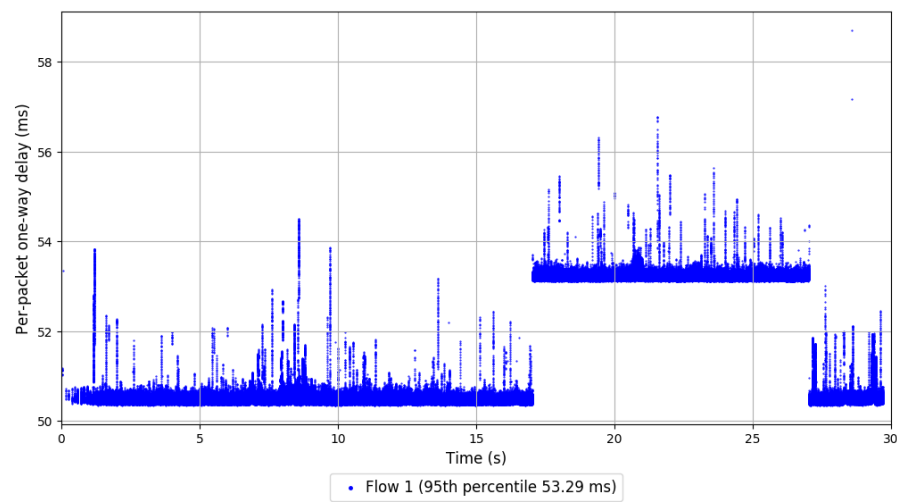
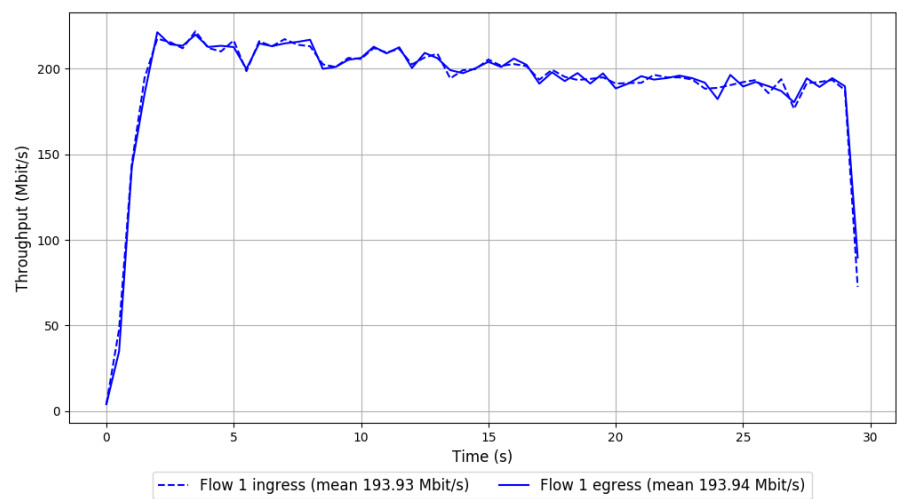


```
Run 4: Statistics of Indigo-calib

Start at: 2017-11-30 12:32:46
End at: 2017-11-30 12:33:16

# Below is generated by plot.py at 2017-11-30 15:10:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.94 Mbit/s
95th percentile per-packet one-way delay: 53.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.94 Mbit/s
95th percentile per-packet one-way delay: 53.288 ms
Loss rate: 0.00%
```

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 12:42:46

End at: 2017-11-30 12:43:16

Below is generated by plot.py at 2017-11-30 15:10:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.29 Mbit/s

95th percentile per-packet one-way delay: 53.430 ms

Loss rate: 0.00%

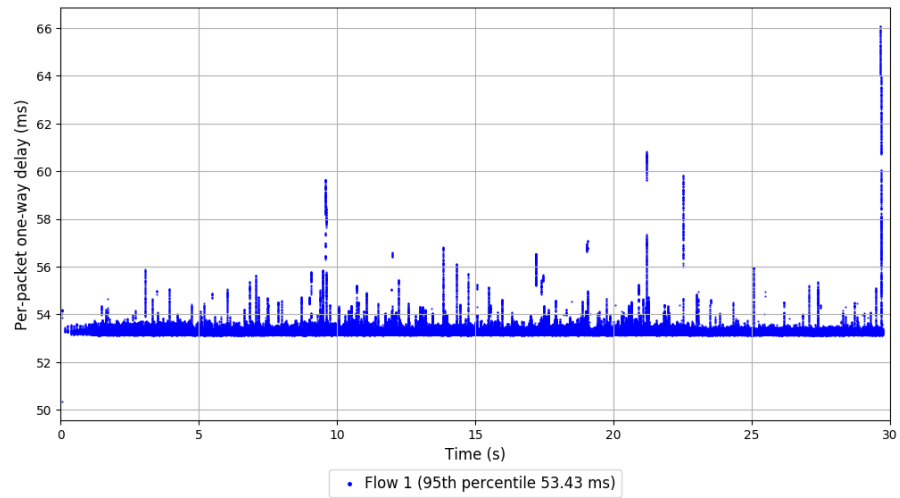
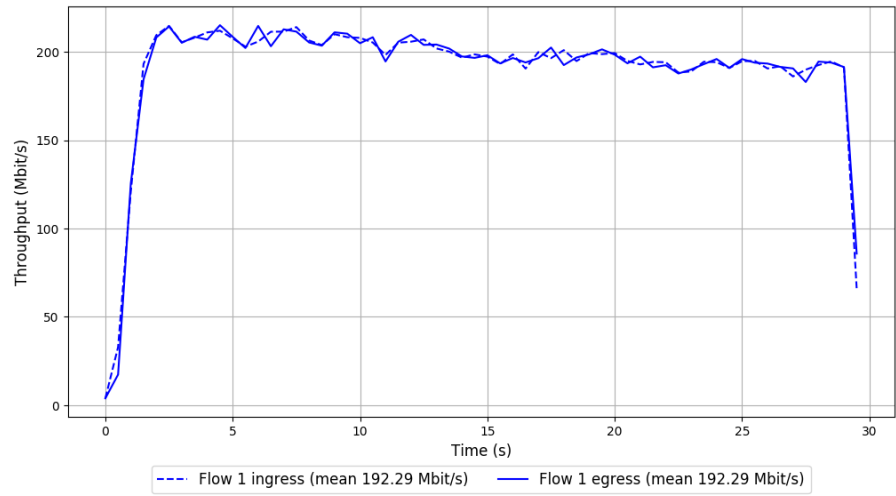
-- Flow 1:

Average throughput: 192.29 Mbit/s

95th percentile per-packet one-way delay: 53.430 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-30 12:53:16

End at: 2017-11-30 12:53:46

Below is generated by plot.py at 2017-11-30 15:10:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.17 Mbit/s

95th percentile per-packet one-way delay: 53.372 ms

Loss rate: 0.00%

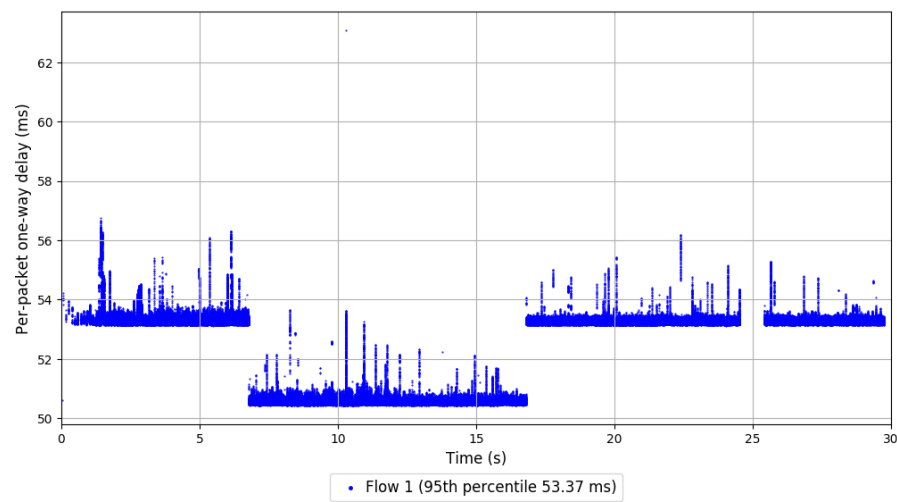
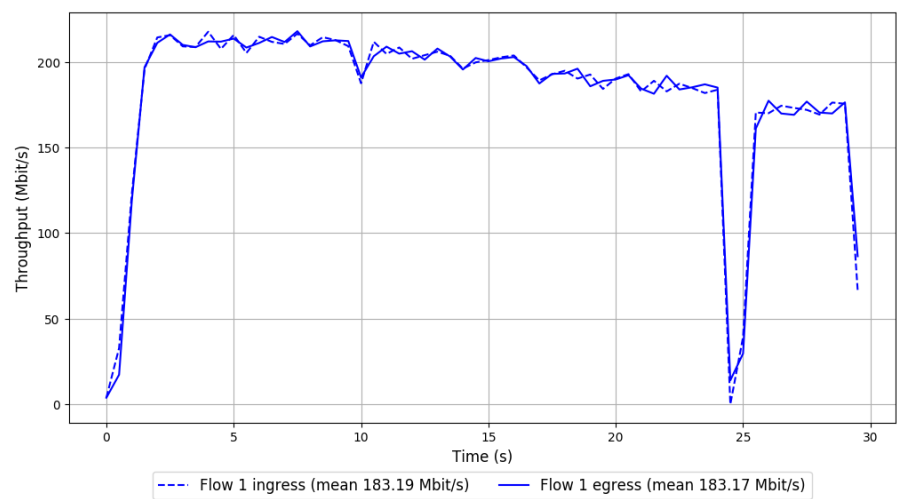
-- Flow 1:

Average throughput: 183.17 Mbit/s

95th percentile per-packet one-way delay: 53.372 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-11-30 13:03:38

End at: 2017-11-30 13:04:08

Below is generated by plot.py at 2017-11-30 15:10:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.37 Mbit/s

95th percentile per-packet one-way delay: 53.420 ms

Loss rate: 0.00%

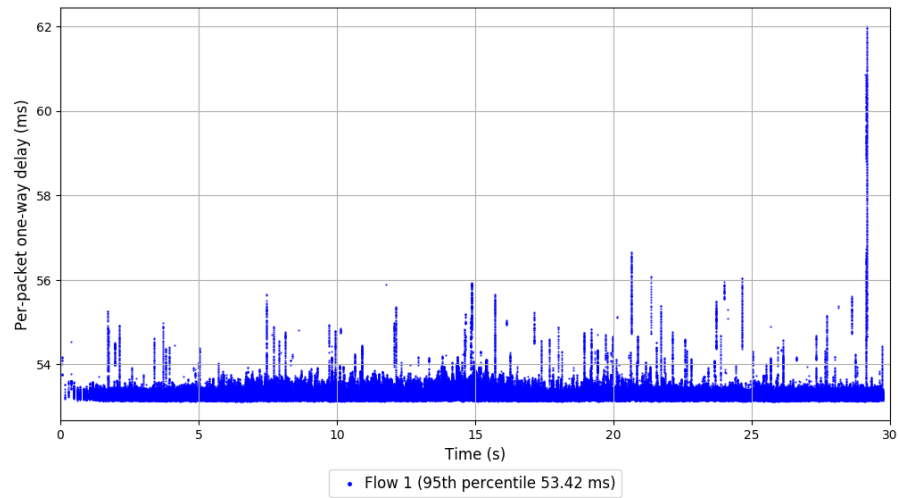
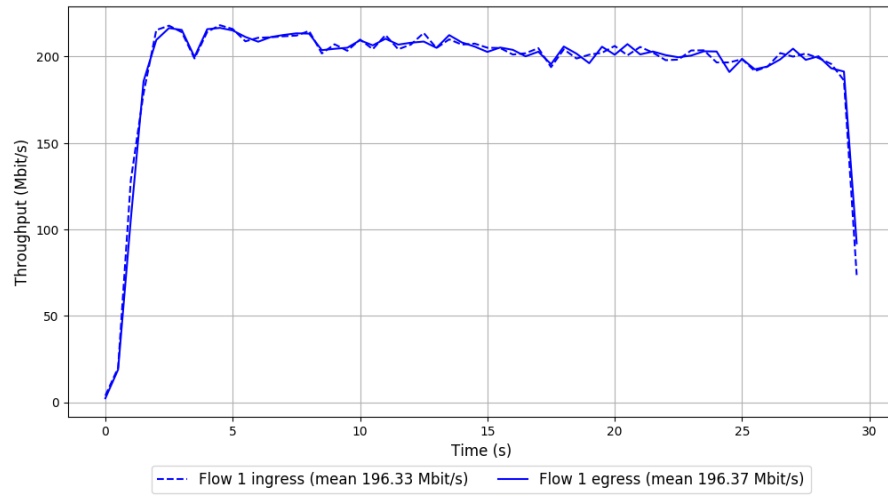
-- Flow 1:

Average throughput: 196.37 Mbit/s

95th percentile per-packet one-way delay: 53.420 ms

Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-30 13:13:56

End at: 2017-11-30 13:14:26

Below is generated by plot.py at 2017-11-30 15:10:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.02 Mbit/s

95th percentile per-packet one-way delay: 53.360 ms

Loss rate: 0.00%

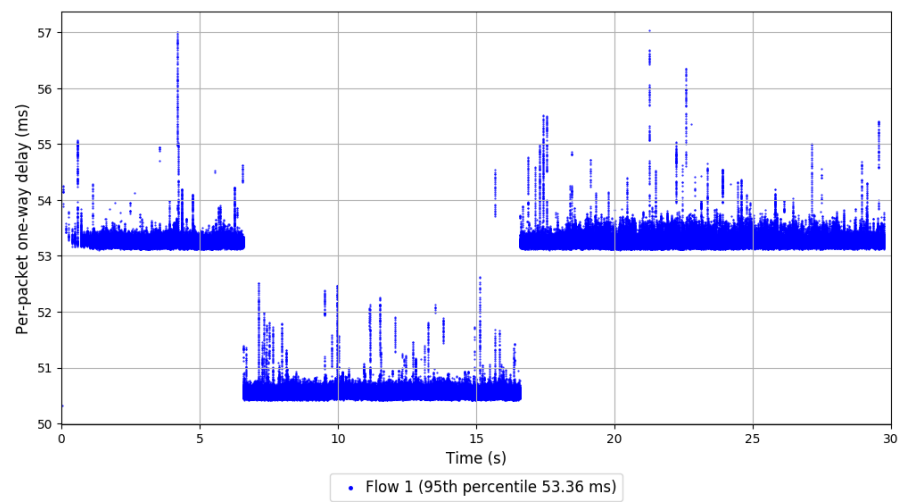
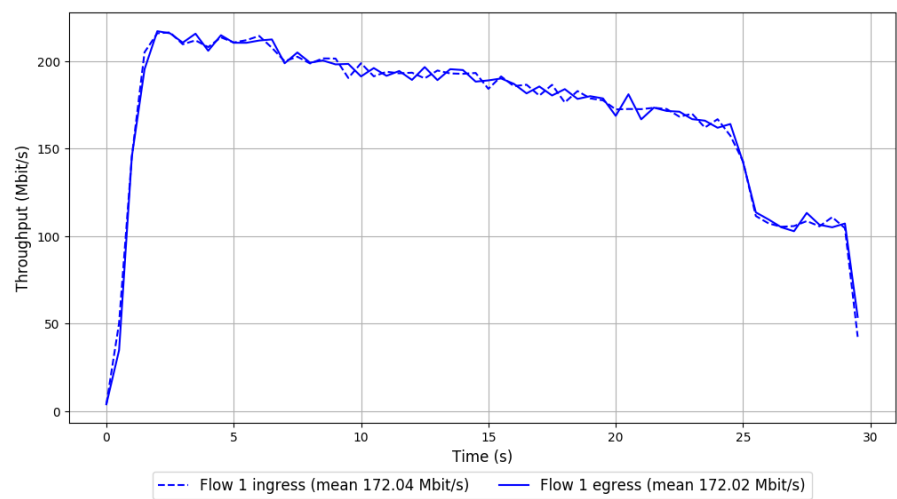
-- Flow 1:

Average throughput: 172.02 Mbit/s

95th percentile per-packet one-way delay: 53.360 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-30 13:24:09

End at: 2017-11-30 13:24:39

Below is generated by plot.py at 2017-11-30 15:11:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.56 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.14%

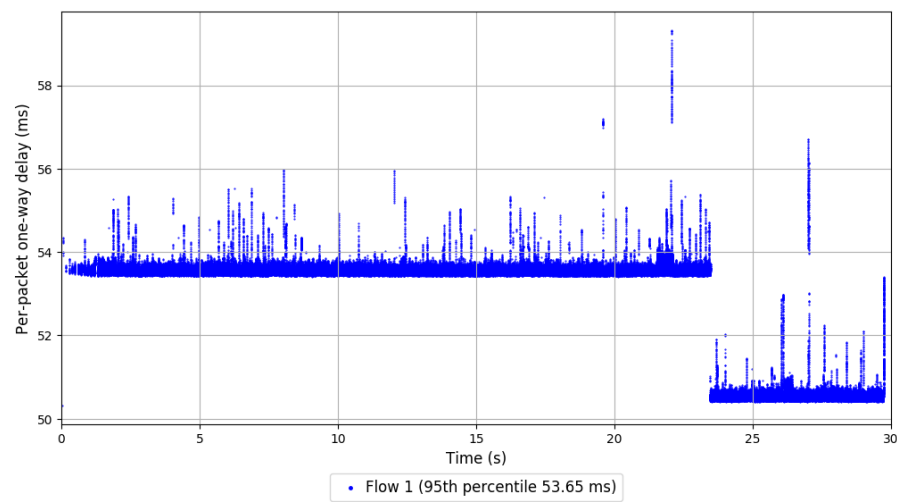
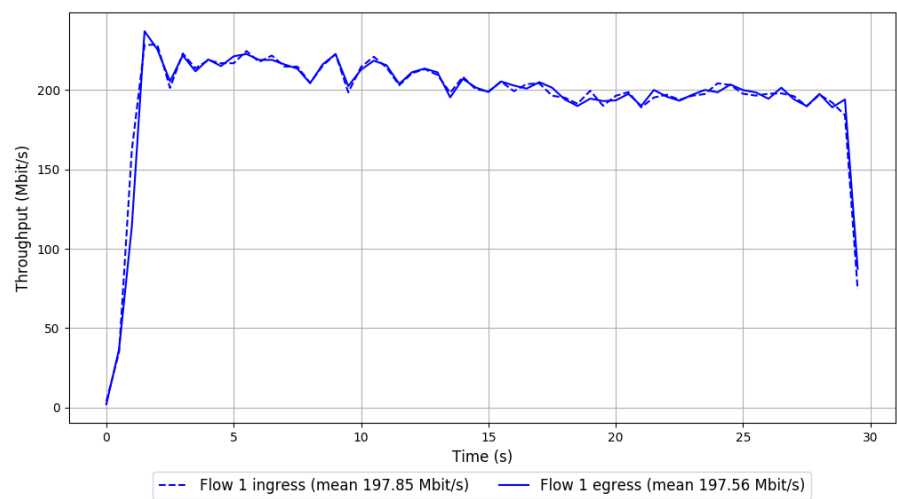
-- Flow 1:

Average throughput: 197.56 Mbit/s

95th percentile per-packet one-way delay: 53.646 ms

Loss rate: 0.14%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 13:34:16

End at: 2017-11-30 13:34:46

Below is generated by plot.py at 2017-11-30 15:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.47 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 189.47 Mbit/s

95th percentile per-packet one-way delay: 50.631 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

