

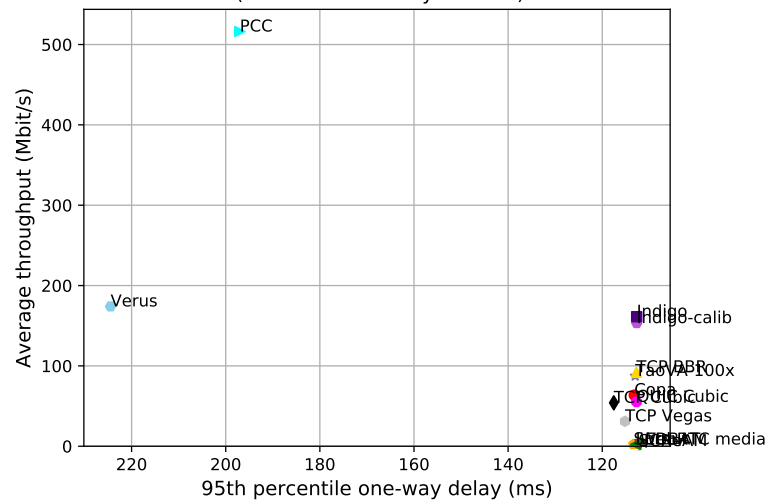
Pantheon Report

Generated at 2017-12-11 11:35:19 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE London Ethernet (*local*).
Repeated the test of 14 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

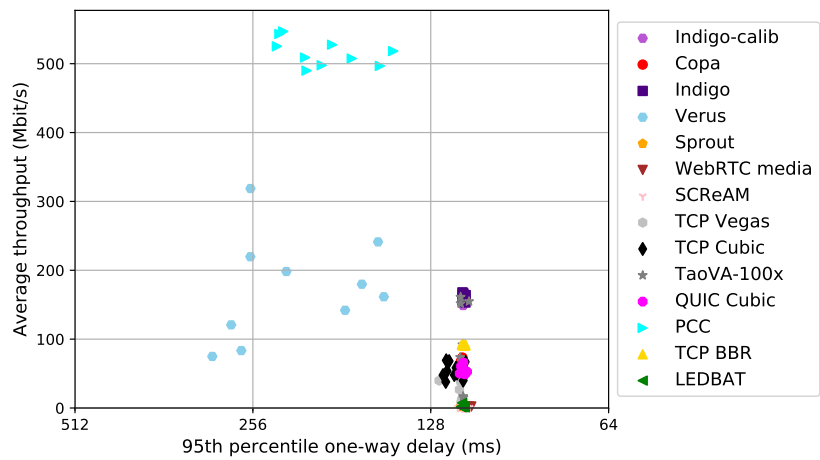
Git summary:

```
branch: 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 Tokyo Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	92.07	112.75	0.82
TCP Cubic	10	54.02	117.55	0.88
LEDBAT	10	2.17	112.90	0.96
PCC	10	516.20	197.01	2.35
QUIC Cubic	8	55.29	112.73	1.00
SCReAM	10	0.21	112.28	0.74
WebRTC media	10	2.14	111.98	0.92
Sprout	10	2.44	113.35	1.38
TaoVA-100x	9	87.47	113.00	0.51
TCP Vegas	7	31.01	115.16	0.83
Verus	10	174.01	224.48	3.28
Copa	6	63.62	113.19	1.01
Indigo	10	161.24	112.68	0.92
Indigo-calib	10	153.27	112.67	0.89

Run 1: Statistics of TCP BBR

Start at: 2017-12-11 07:20:40

End at: 2017-12-11 07:21:10

Below is generated by plot.py at 2017-12-11 11:05:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 111.867 ms

Loss rate: 0.80%

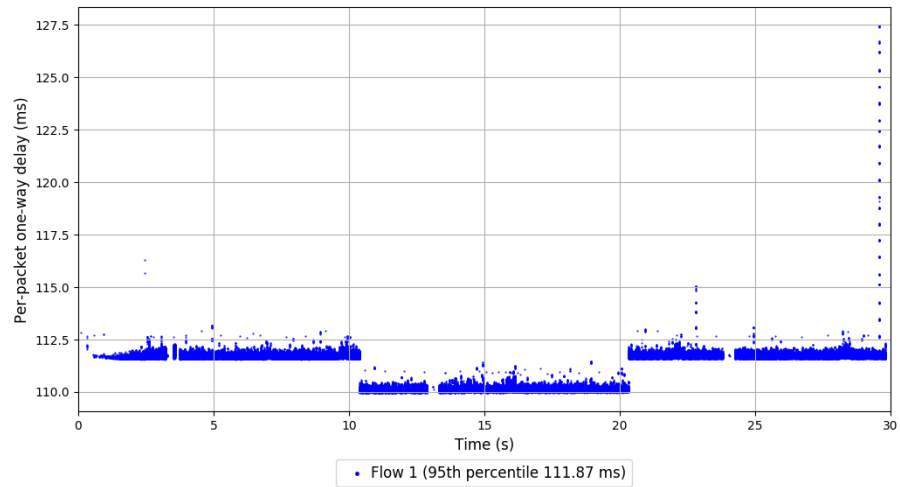
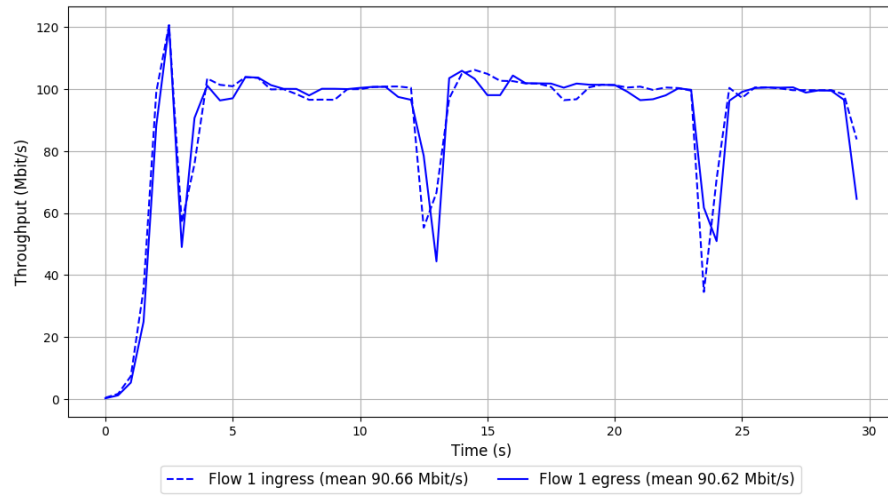
-- Flow 1:

Average throughput: 90.62 Mbit/s

95th percentile per-packet one-way delay: 111.867 ms

Loss rate: 0.80%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-12-11 07:31:48

End at: 2017-12-11 07:32:18

Below is generated by plot.py at 2017-12-11 11:05:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 111.908 ms

Loss rate: 0.91%

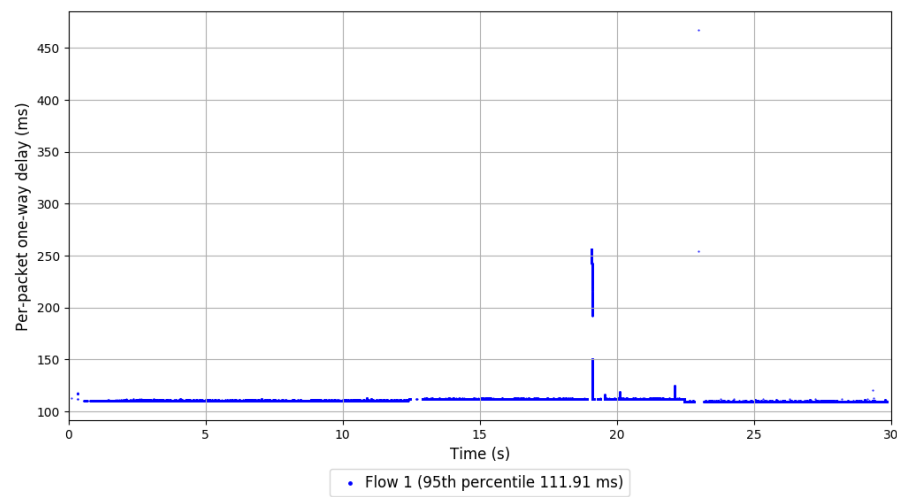
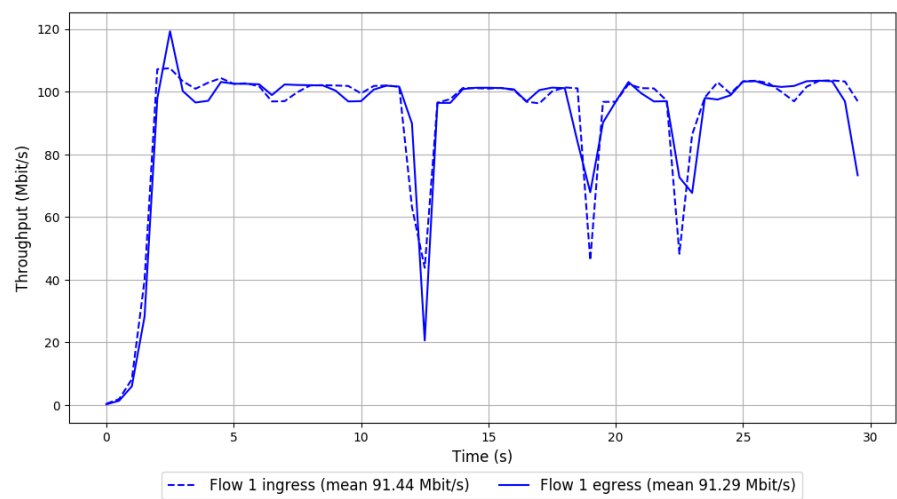
-- Flow 1:

Average throughput: 91.29 Mbit/s

95th percentile per-packet one-way delay: 111.908 ms

Loss rate: 0.91%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-12-11 07:42:42

End at: 2017-12-11 07:43:12

Below is generated by plot.py at 2017-12-11 11:05:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 111.946 ms

Loss rate: 0.87%

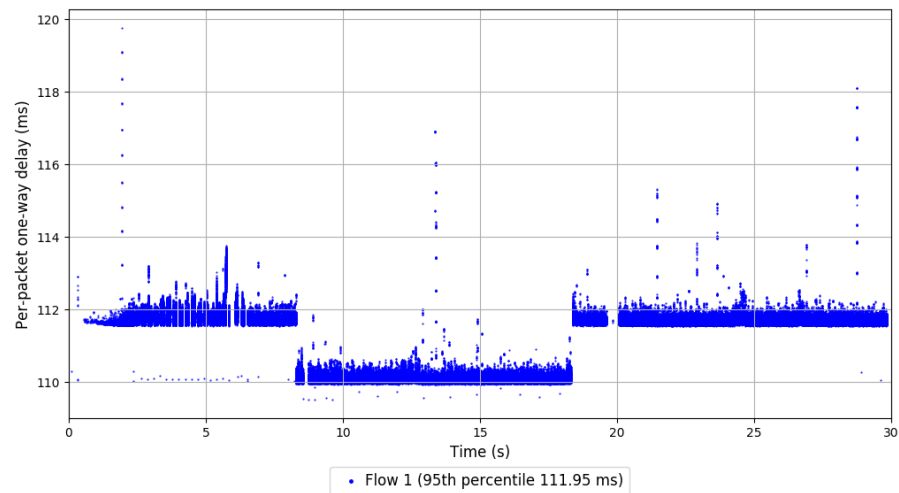
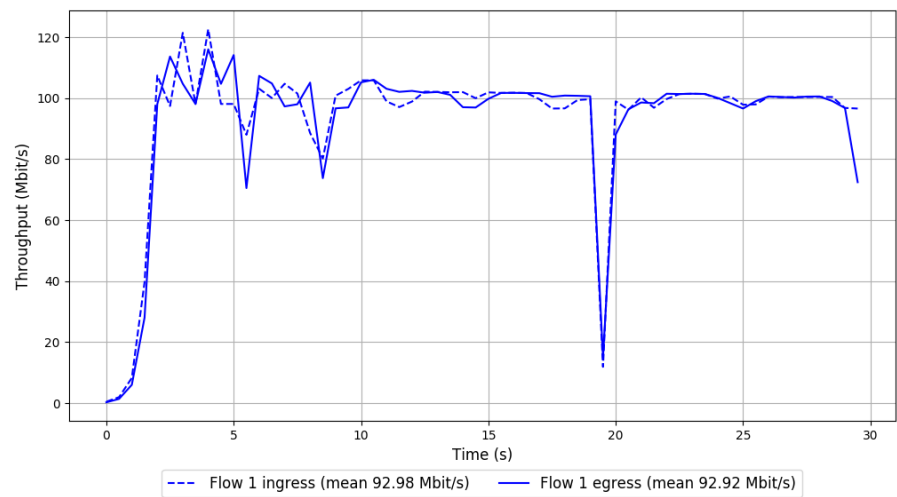
-- Flow 1:

Average throughput: 92.92 Mbit/s

95th percentile per-packet one-way delay: 111.946 ms

Loss rate: 0.87%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-12-11 07:53:52

End at: 2017-12-11 07:54:22

Below is generated by plot.py at 2017-12-11 11:05:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 113.034 ms

Loss rate: 0.92%

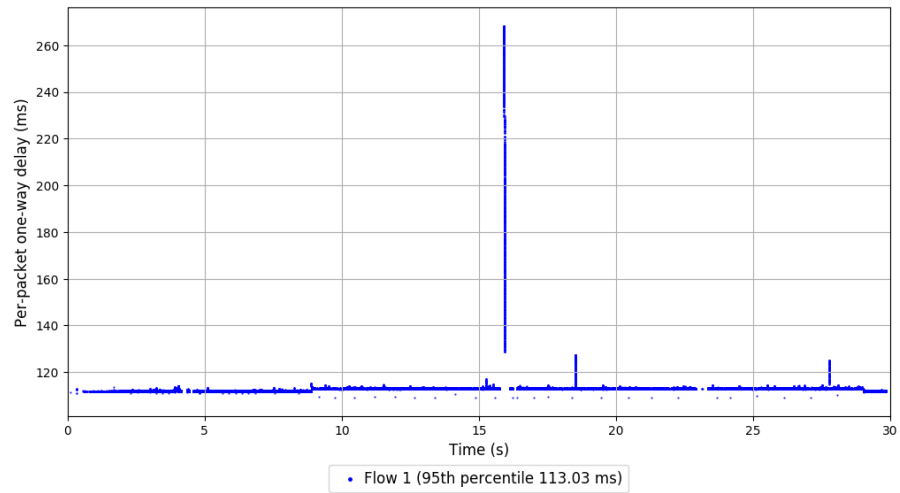
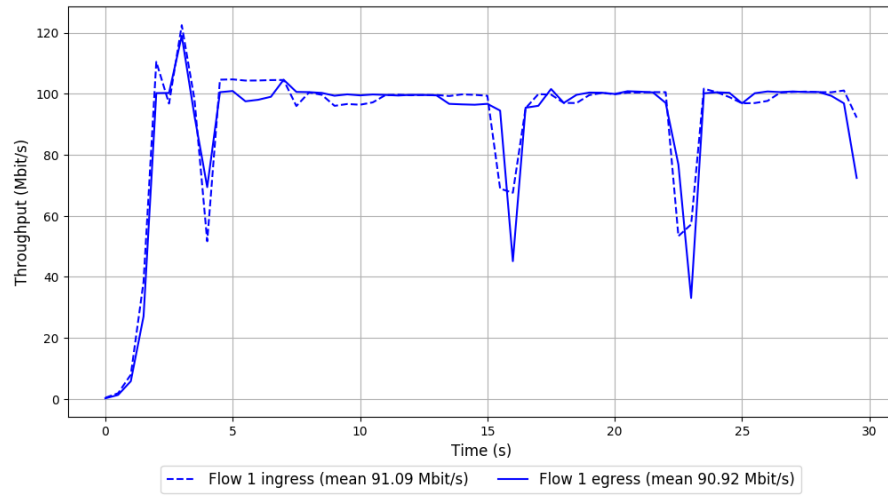
-- Flow 1:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 113.034 ms

Loss rate: 0.92%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-12-11 08:04:57

End at: 2017-12-11 08:05:27

Below is generated by plot.py at 2017-12-11 11:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 112.985 ms

Loss rate: 0.78%

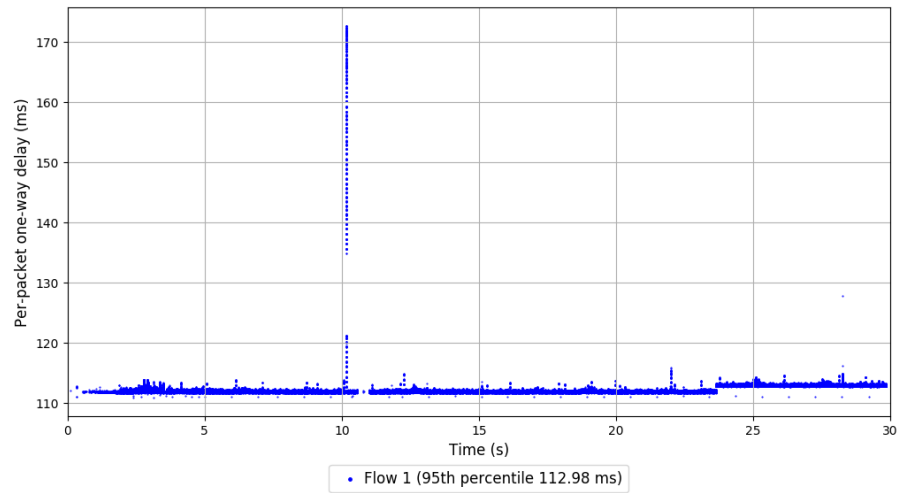
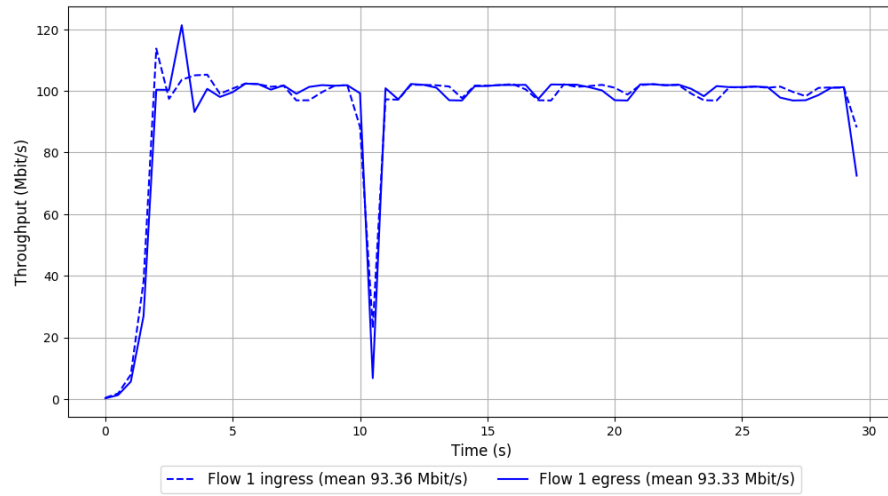
-- Flow 1:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 112.985 ms

Loss rate: 0.78%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-12-11 08:15:52

End at: 2017-12-11 08:16:22

Below is generated by plot.py at 2017-12-11 11:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 113.323 ms

Loss rate: 0.78%

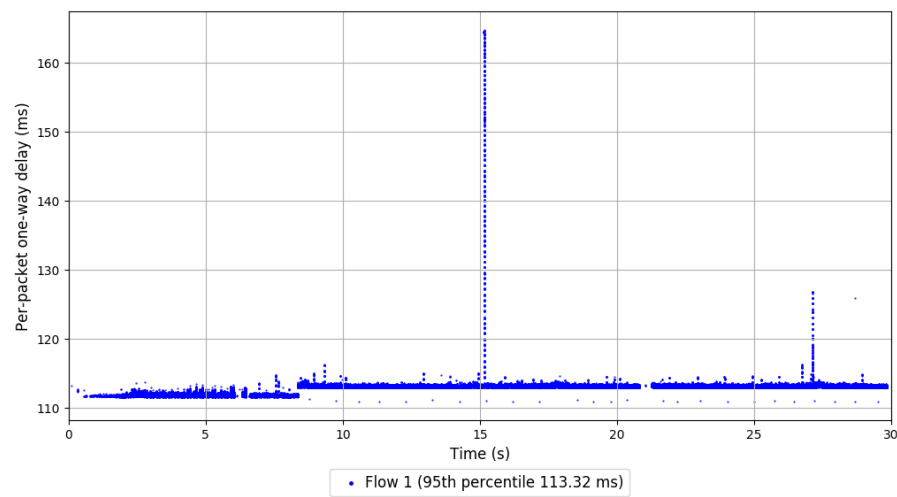
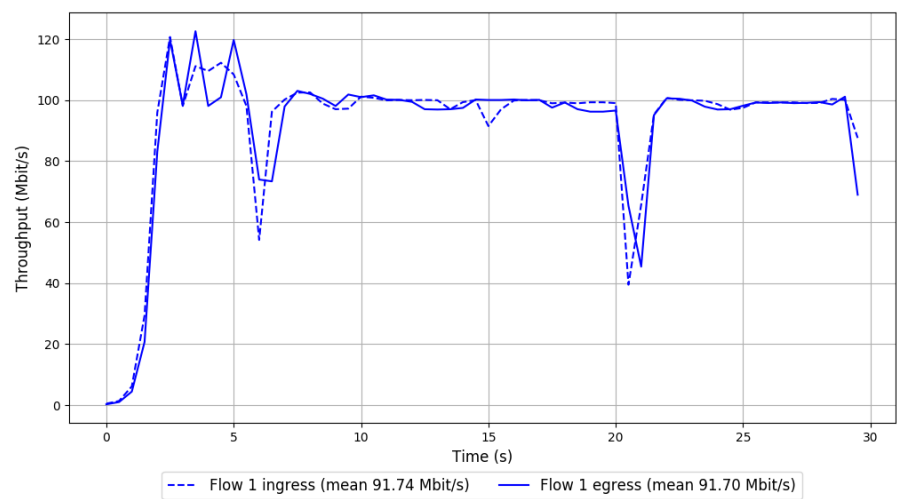
-- Flow 1:

Average throughput: 91.70 Mbit/s

95th percentile per-packet one-way delay: 113.323 ms

Loss rate: 0.78%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2017-12-11 08:26:55

End at: 2017-12-11 08:27:25

Below is generated by plot.py at 2017-12-11 11:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 113.334 ms

Loss rate: 0.79%

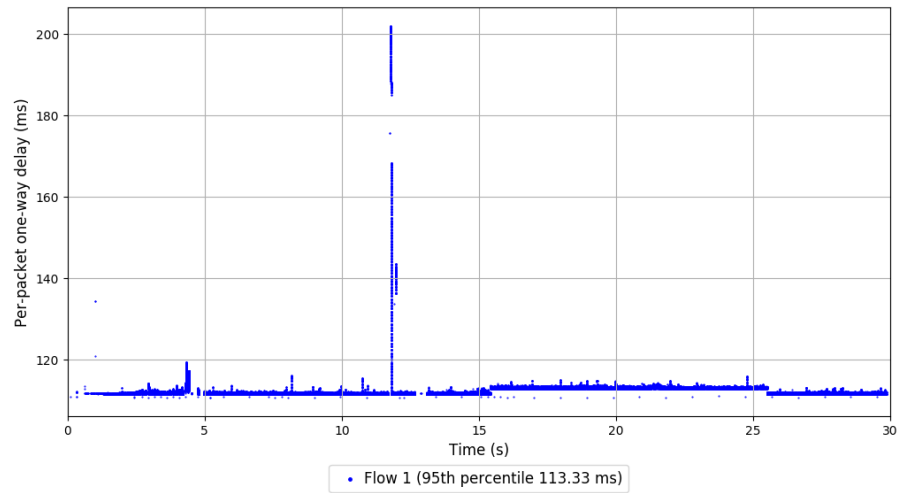
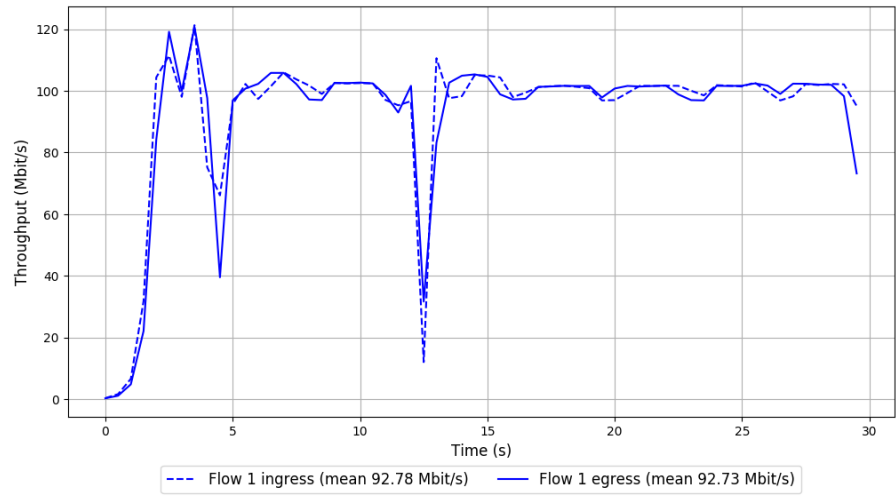
-- Flow 1:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 113.334 ms

Loss rate: 0.79%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-12-11 08:38:03

End at: 2017-12-11 08:38:33

Below is generated by plot.py at 2017-12-11 11:05:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 113.154 ms

Loss rate: 0.78%

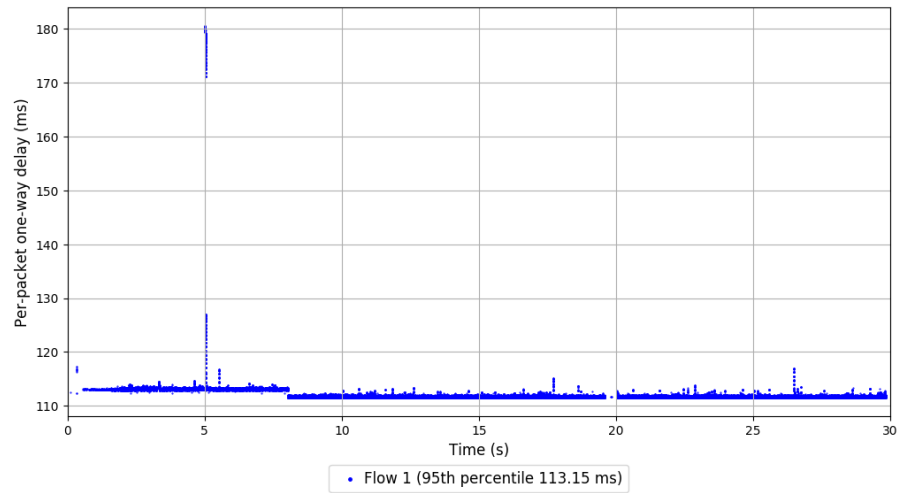
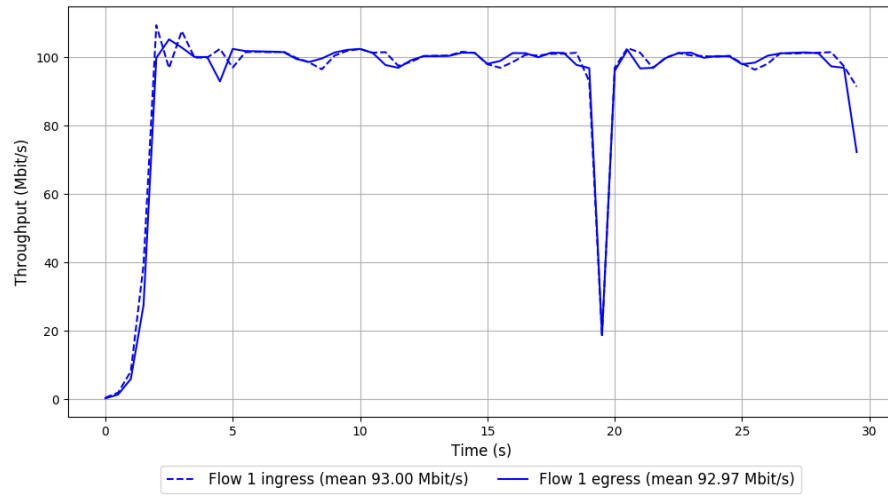
-- Flow 1:

Average throughput: 92.97 Mbit/s

95th percentile per-packet one-way delay: 113.154 ms

Loss rate: 0.78%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2017-12-11 08:49:14

End at: 2017-12-11 08:49:44

Below is generated by plot.py at 2017-12-11 11:07:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 112.992 ms

Loss rate: 0.80%

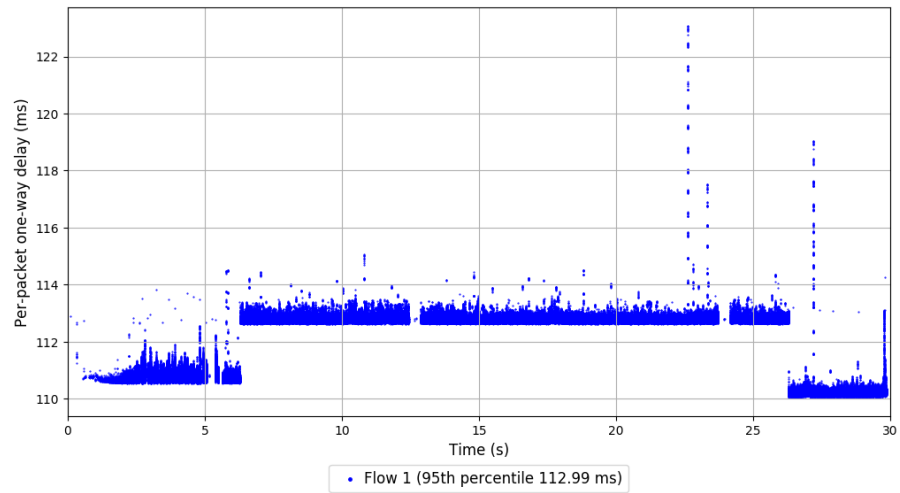
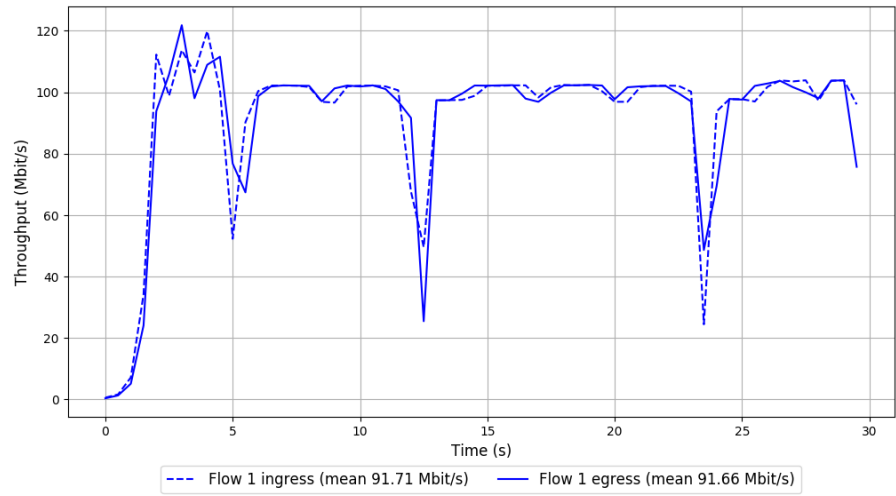
-- Flow 1:

Average throughput: 91.66 Mbit/s

95th percentile per-packet one-way delay: 112.992 ms

Loss rate: 0.80%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-12-11 09:00:17

End at: 2017-12-11 09:00:47

Below is generated by plot.py at 2017-12-11 11:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 112.972 ms

Loss rate: 0.80%

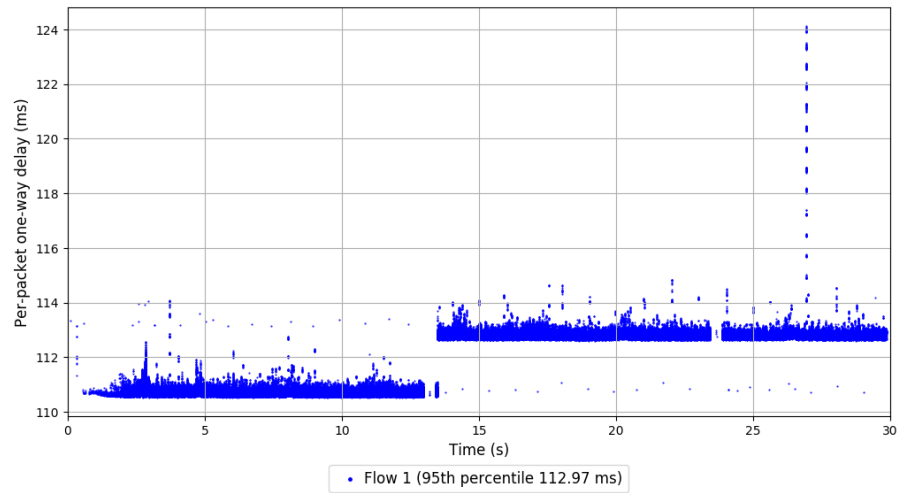
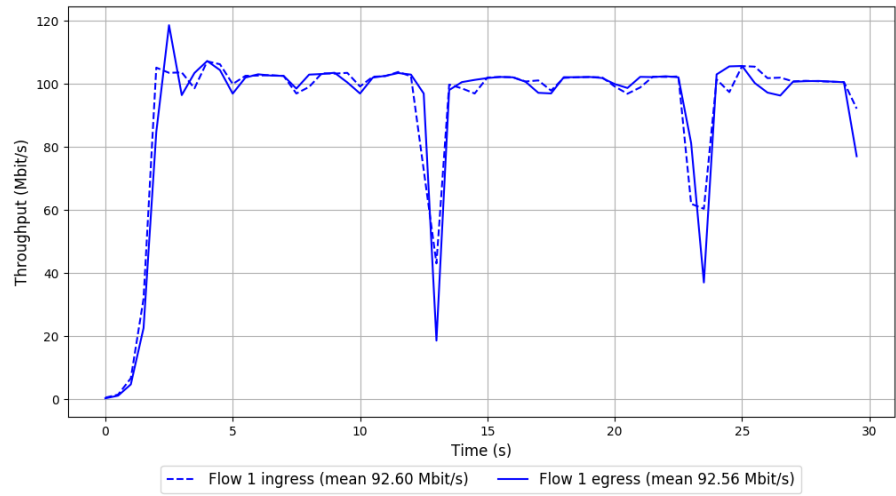
-- Flow 1:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 112.972 ms

Loss rate: 0.80%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-12-11 07:30:09

End at: 2017-12-11 07:30:39

Below is generated by plot.py at 2017-12-11 11:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.12 Mbit/s

95th percentile per-packet one-way delay: 111.919 ms

Loss rate: 1.11%

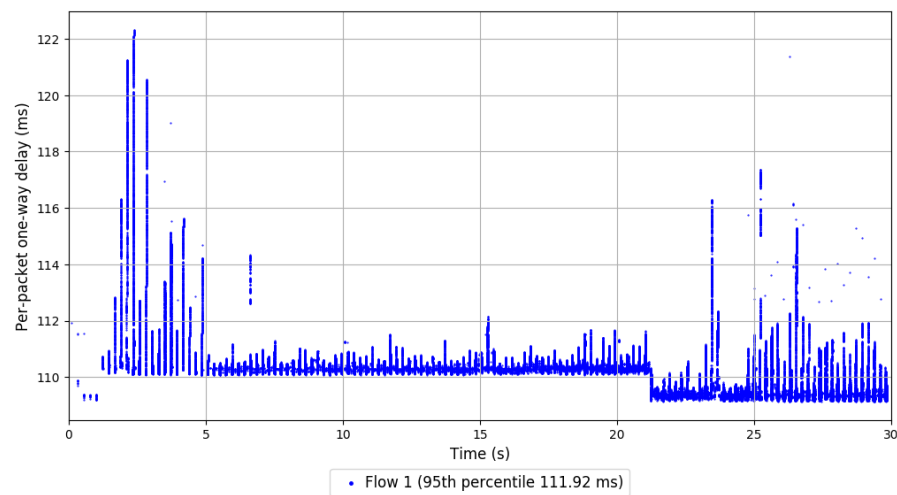
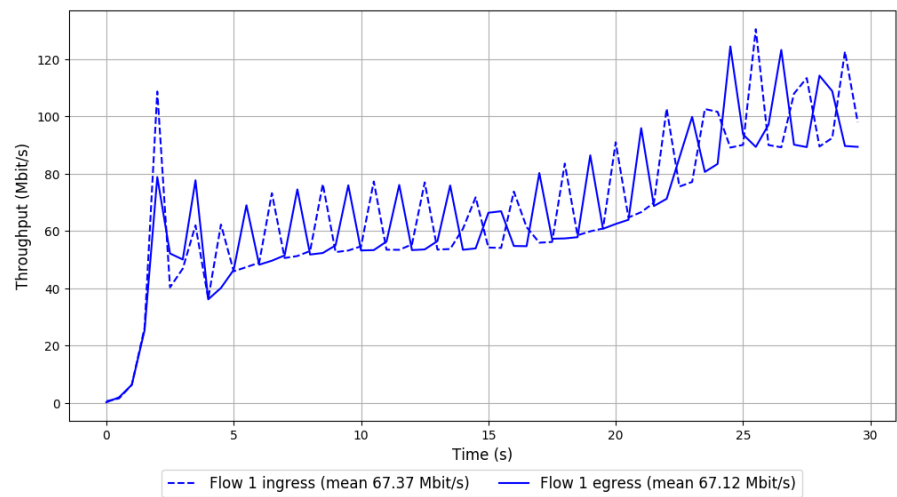
-- Flow 1:

Average throughput: 67.12 Mbit/s

95th percentile per-packet one-way delay: 111.919 ms

Loss rate: 1.11%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-12-11 07:41:05

End at: 2017-12-11 07:41:35

Below is generated by plot.py at 2017-12-11 11:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.85 Mbit/s

95th percentile per-packet one-way delay: 112.797 ms

Loss rate: 1.25%

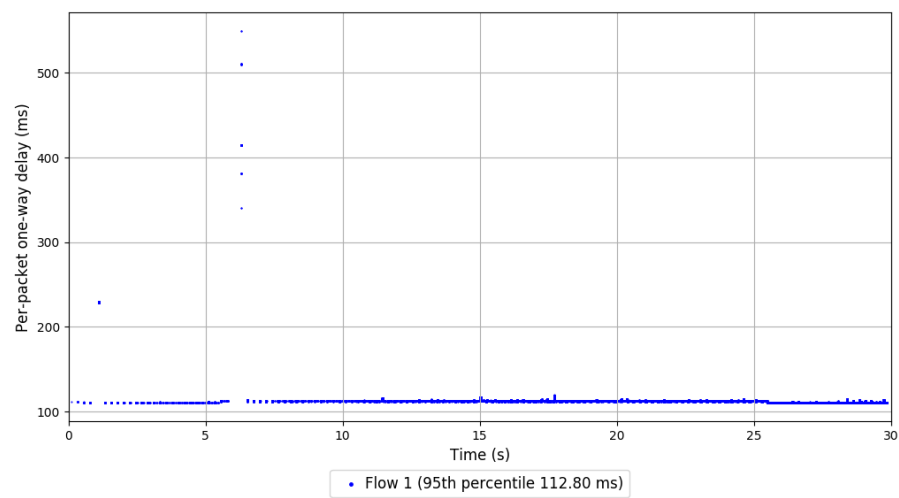
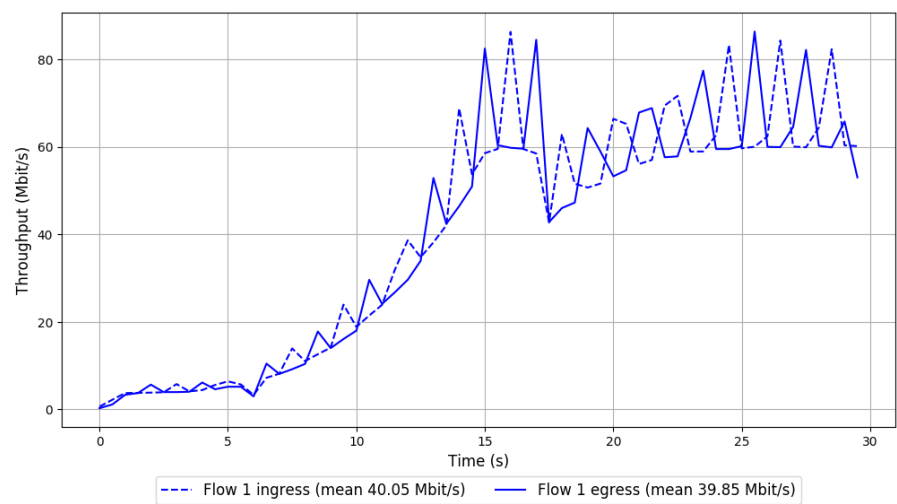
-- Flow 1:

Average throughput: 39.85 Mbit/s

95th percentile per-packet one-way delay: 112.797 ms

Loss rate: 1.25%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2017-12-11 07:52:12

End at: 2017-12-11 07:52:42

Below is generated by plot.py at 2017-12-11 11:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 119.141 ms

Loss rate: 0.74%

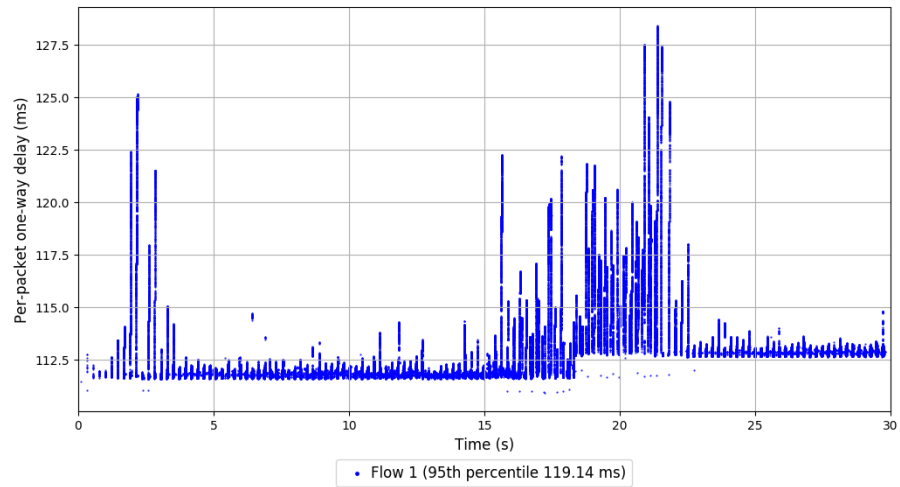
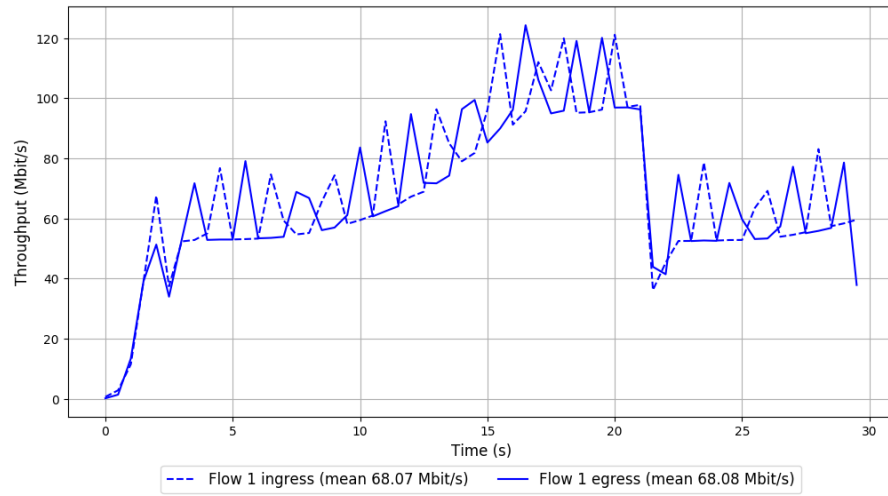
-- Flow 1:

Average throughput: 68.08 Mbit/s

95th percentile per-packet one-way delay: 119.141 ms

Loss rate: 0.74%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2017-12-11 08:03:19

End at: 2017-12-11 08:03:49

Below is generated by plot.py at 2017-12-11 11:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.76 Mbit/s

95th percentile per-packet one-way delay: 122.024 ms

Loss rate: 0.74%

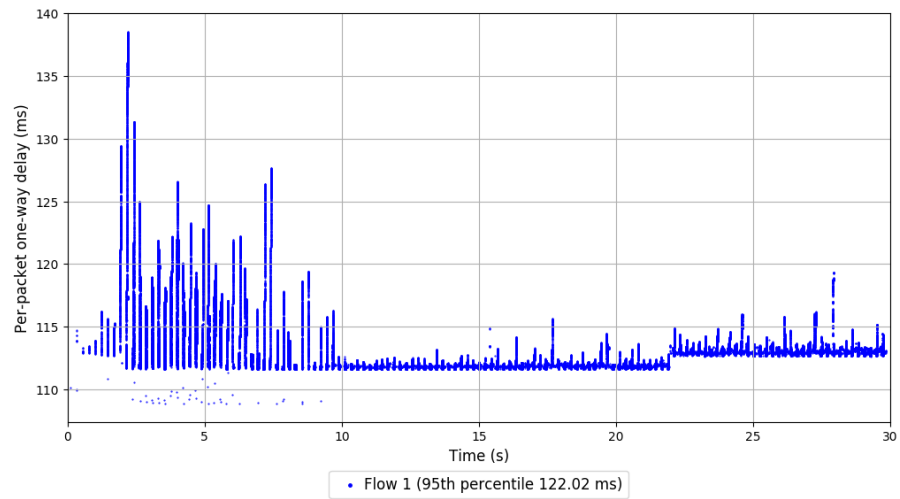
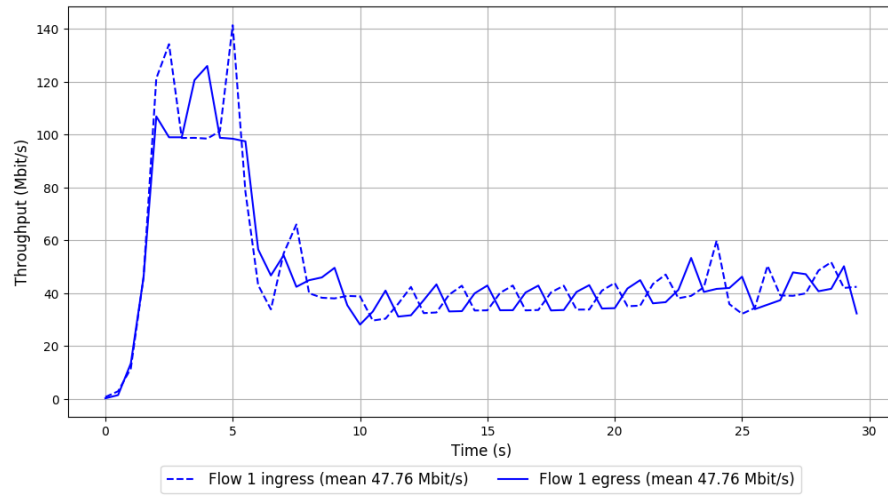
-- Flow 1:

Average throughput: 47.76 Mbit/s

95th percentile per-packet one-way delay: 122.024 ms

Loss rate: 0.74%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-12-11 08:14:14

End at: 2017-12-11 08:14:44

Below is generated by plot.py at 2017-12-11 11:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.94 Mbit/s

95th percentile per-packet one-way delay: 120.726 ms

Loss rate: 0.95%

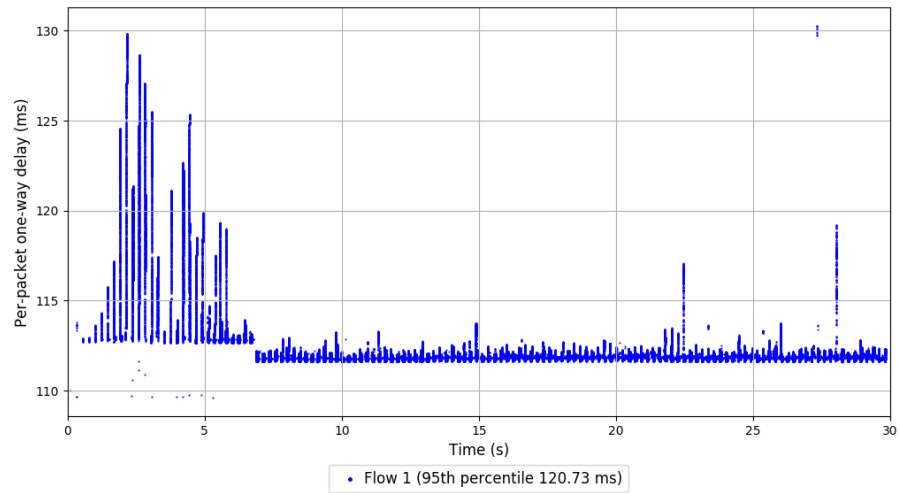
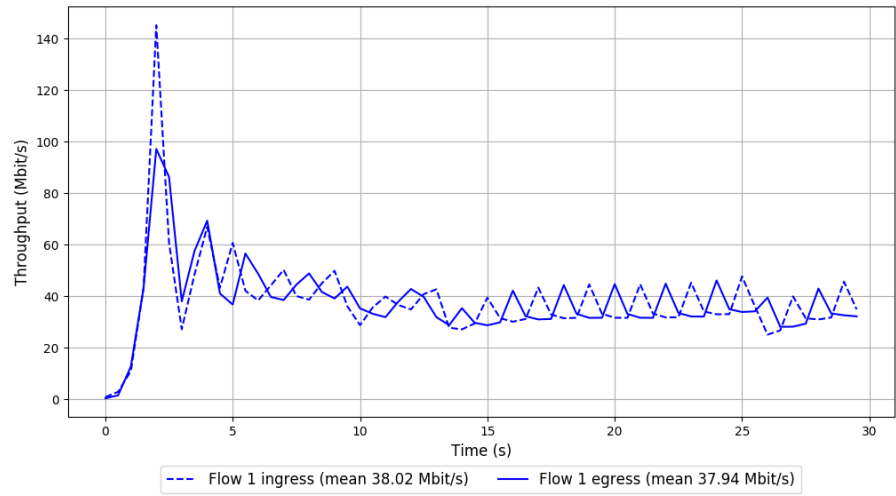
-- Flow 1:

Average throughput: 37.94 Mbit/s

95th percentile per-packet one-way delay: 120.726 ms

Loss rate: 0.95%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2017-12-11 08:25:14

End at: 2017-12-11 08:25:44

Below is generated by plot.py at 2017-12-11 11:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.43 Mbit/s

95th percentile per-packet one-way delay: 115.992 ms

Loss rate: 0.86%

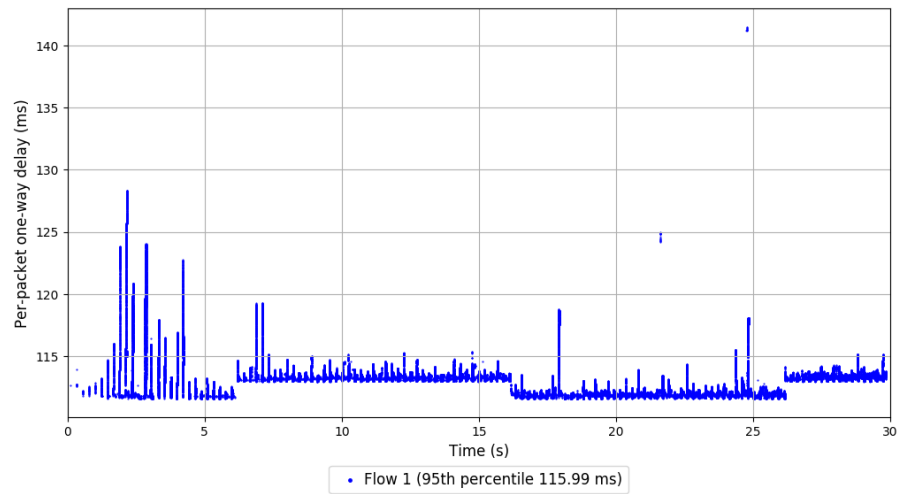
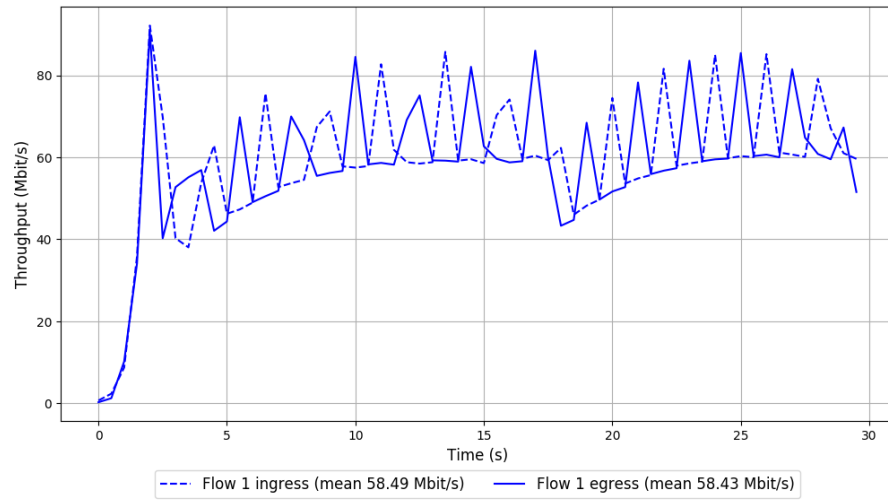
-- Flow 1:

Average throughput: 58.43 Mbit/s

95th percentile per-packet one-way delay: 115.992 ms

Loss rate: 0.86%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-12-11 08:36:22

End at: 2017-12-11 08:36:52

Below is generated by plot.py at 2017-12-11 11:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 120.494 ms

Loss rate: 0.55%

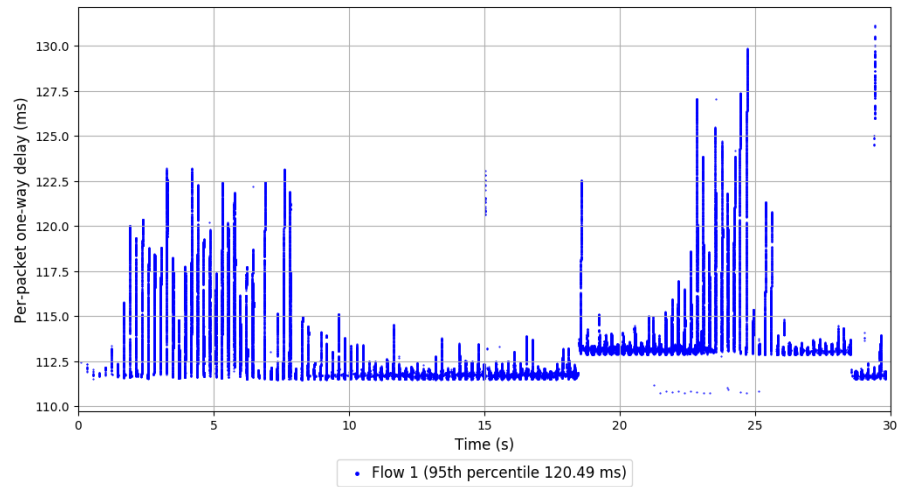
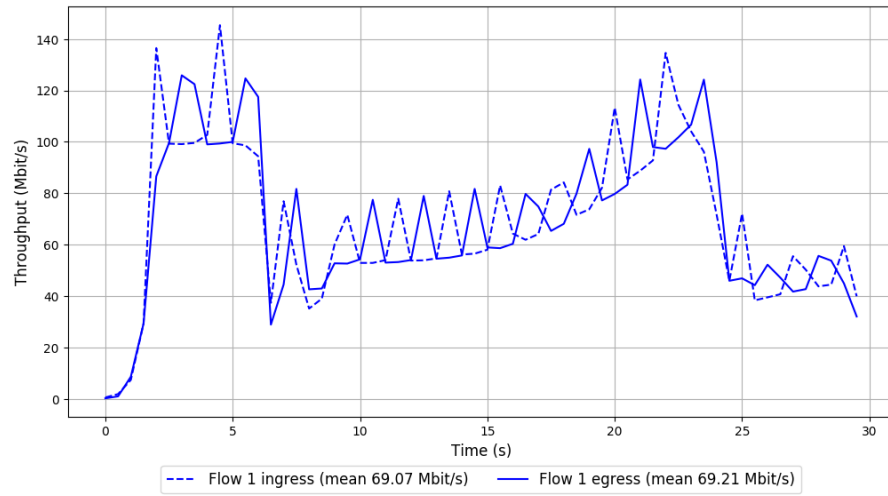
-- Flow 1:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 120.494 ms

Loss rate: 0.55%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-12-11 08:47:35

End at: 2017-12-11 08:48:05

Below is generated by plot.py at 2017-12-11 11:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.77 Mbit/s

95th percentile per-packet one-way delay: 120.100 ms

Loss rate: 1.10%

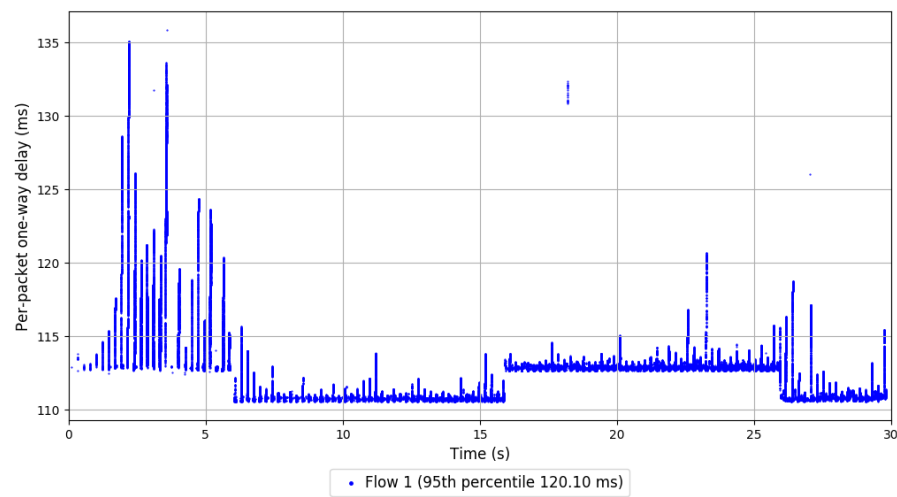
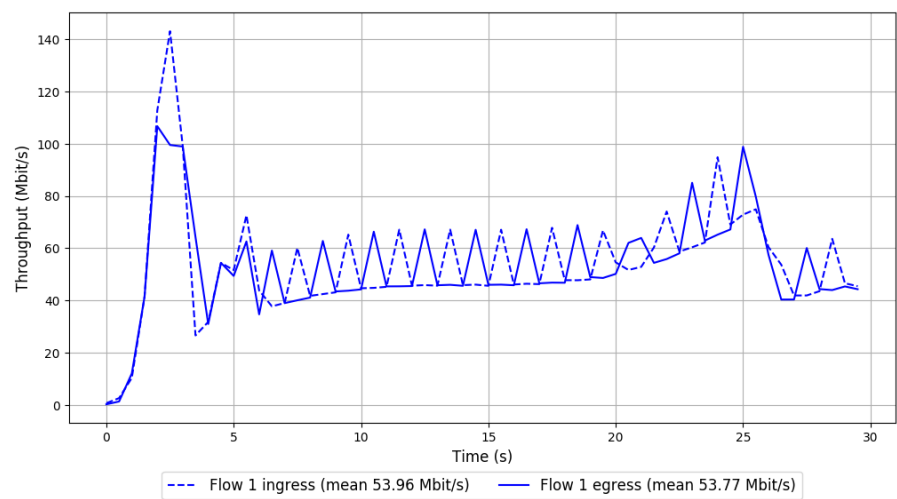
-- Flow 1:

Average throughput: 53.77 Mbit/s

95th percentile per-packet one-way delay: 120.100 ms

Loss rate: 1.10%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2017-12-11 08:58:37

End at: 2017-12-11 08:59:07

Below is generated by plot.py at 2017-12-11 11:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 115.511 ms

Loss rate: 0.97%

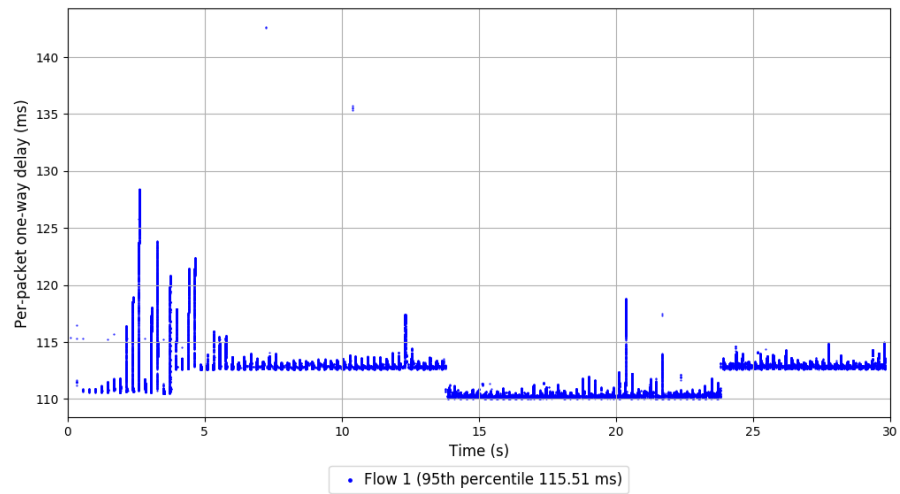
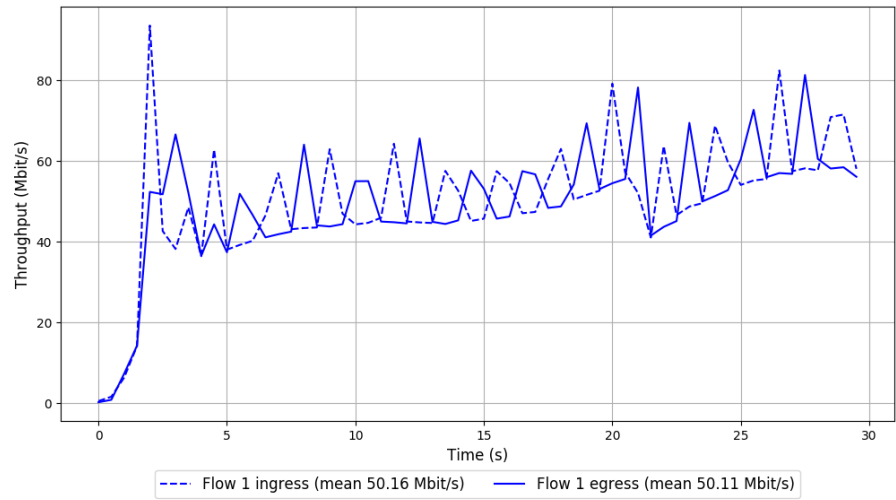
-- Flow 1:

Average throughput: 50.11 Mbit/s

95th percentile per-packet one-way delay: 115.511 ms

Loss rate: 0.97%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-12-11 09:09:45

End at: 2017-12-11 09:10:15

Below is generated by plot.py at 2017-12-11 11:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 116.779 ms

Loss rate: 0.49%

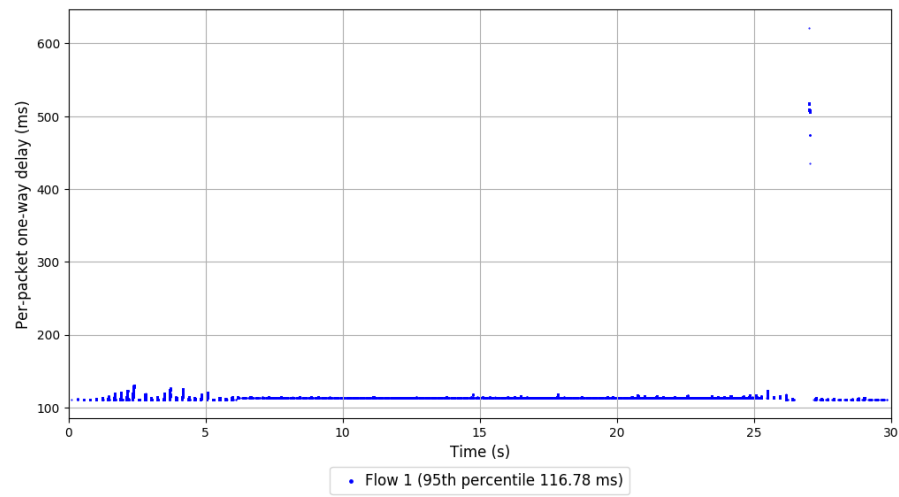
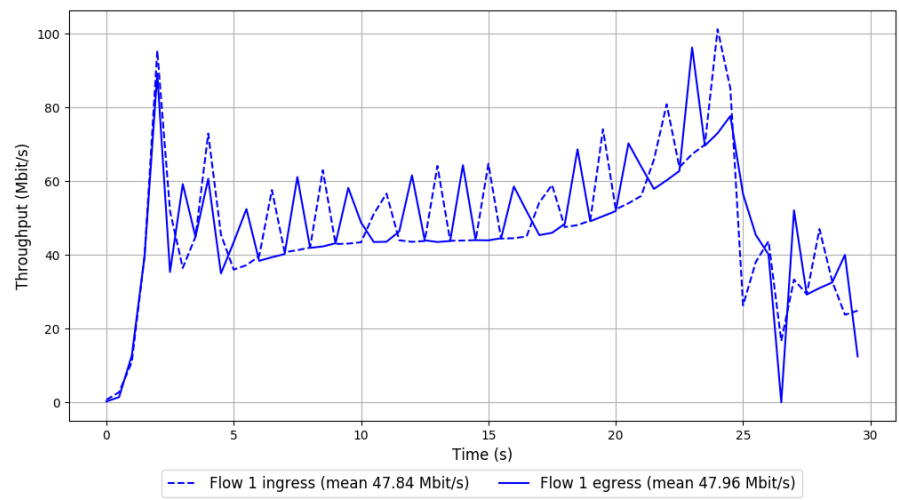
-- Flow 1:

Average throughput: 47.96 Mbit/s

95th percentile per-packet one-way delay: 116.779 ms

Loss rate: 0.49%

Run 10: Report of TCP Cubic — Data Link

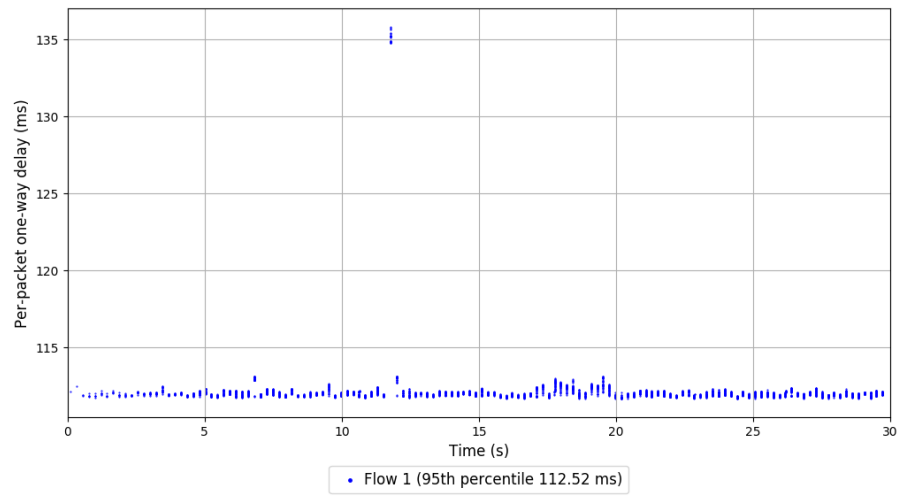
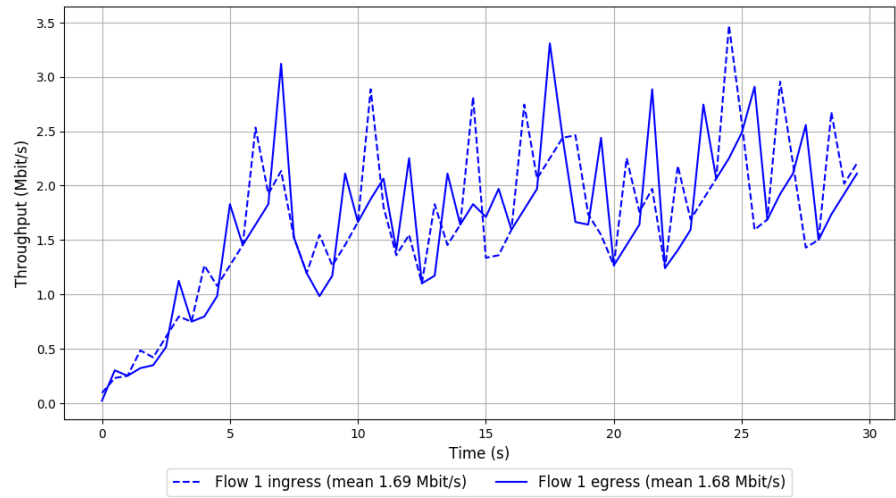


```
Run 1: Statistics of LEDBAT

Start at: 2017-12-11 07:22:31
End at: 2017-12-11 07:23:01

# Below is generated by plot.py at 2017-12-11 11:07:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 112.522 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 1.68 Mbit/s
95th percentile per-packet one-way delay: 112.522 ms
Loss rate: 1.12%
```

Run 1: Report of LEDBAT — Data Link

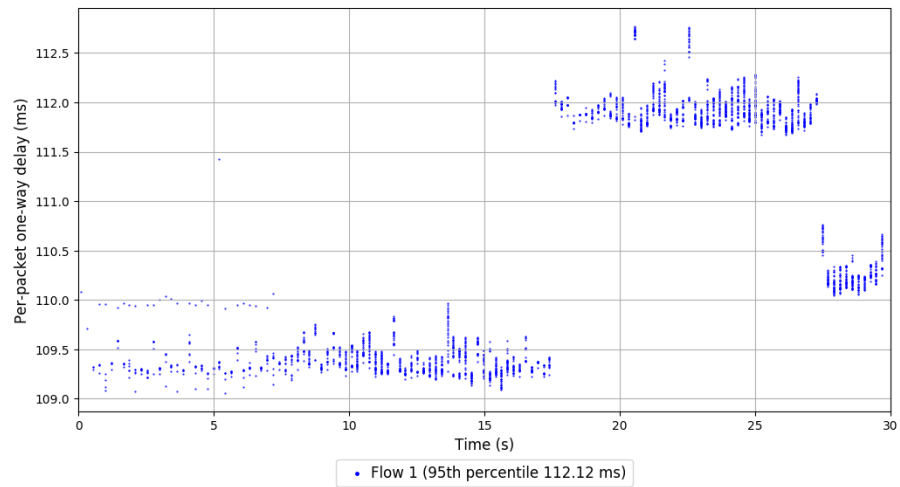
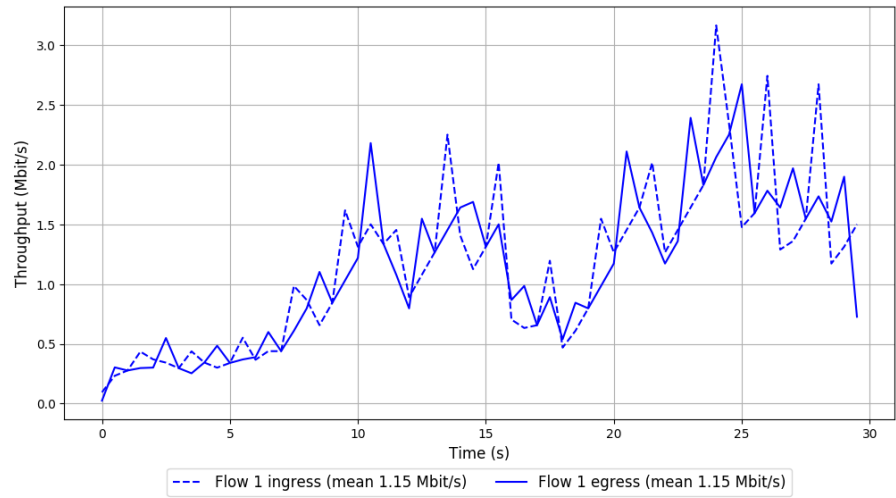


```
Run 2: Statistics of LEDBAT

Start at: 2017-12-11 07:33:33
End at: 2017-12-11 07:34:03

# Below is generated by plot.py at 2017-12-11 11:07:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 112.124 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 112.124 ms
Loss rate: 1.16%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2017-12-11 07:44:23

End at: 2017-12-11 07:44:53

Below is generated by plot.py at 2017-12-11 11:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 112.144 ms

Loss rate: 0.68%

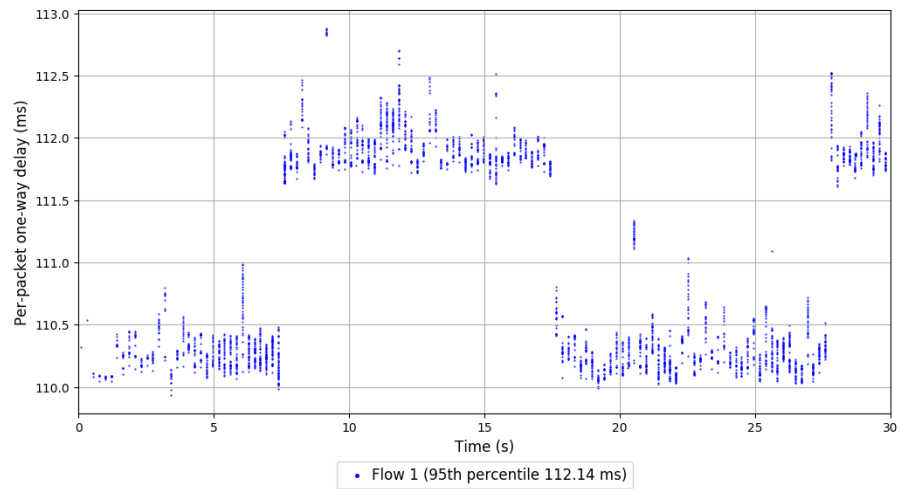
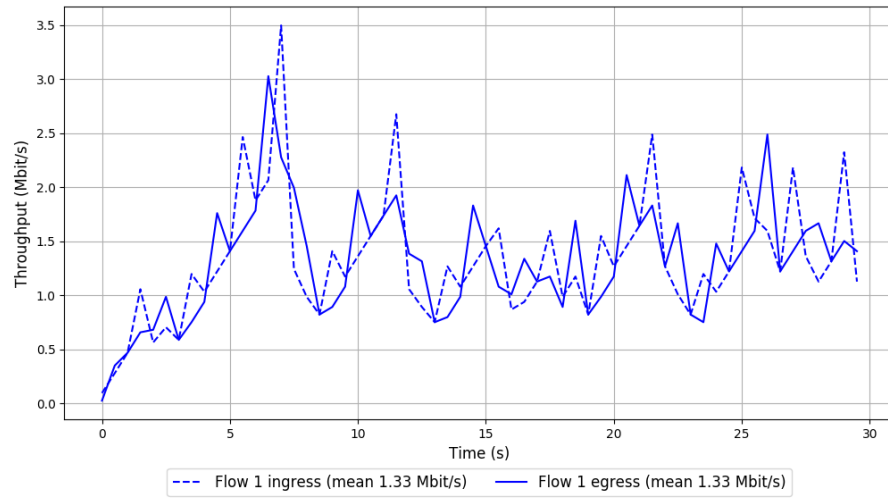
-- Flow 1:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 112.144 ms

Loss rate: 0.68%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2017-12-11 07:55:37

End at: 2017-12-11 07:56:07

Below is generated by plot.py at 2017-12-11 11:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 113.240 ms

Loss rate: 1.48%

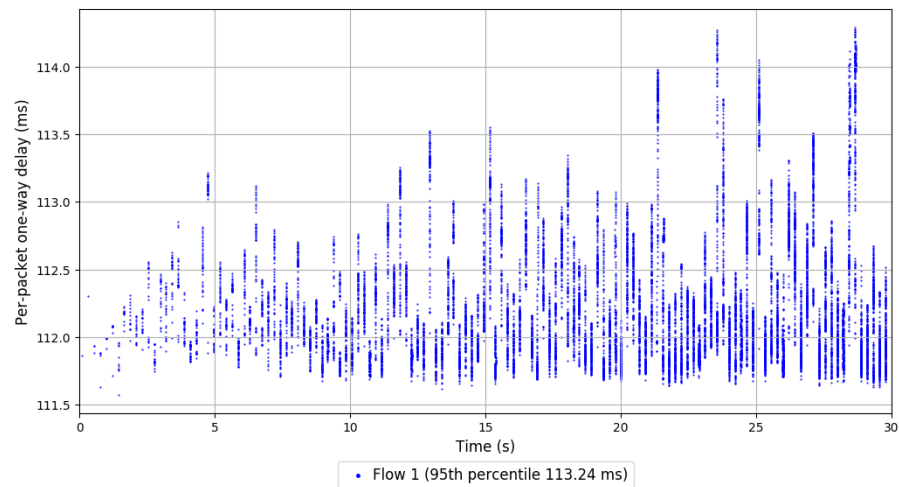
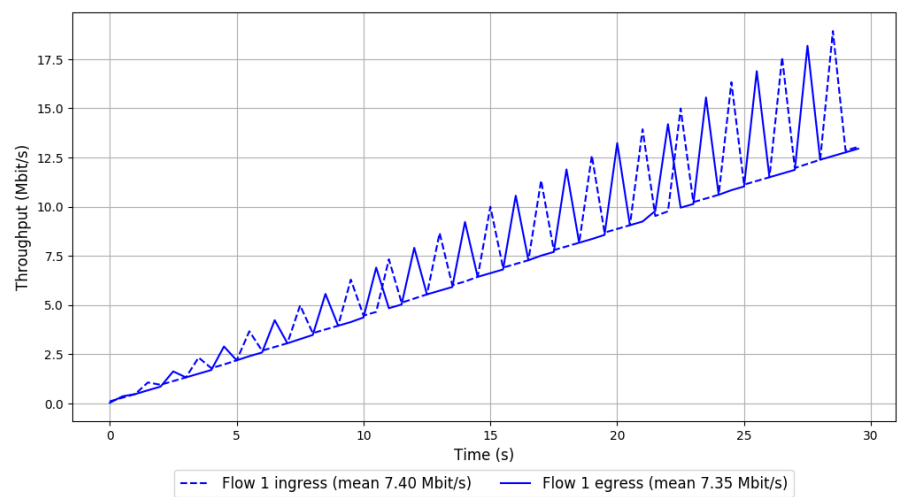
-- Flow 1:

Average throughput: 7.35 Mbit/s

95th percentile per-packet one-way delay: 113.240 ms

Loss rate: 1.48%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-12-11 08:06:33

End at: 2017-12-11 08:07:03

Below is generated by plot.py at 2017-12-11 11:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 112.446 ms

Loss rate: 1.35%

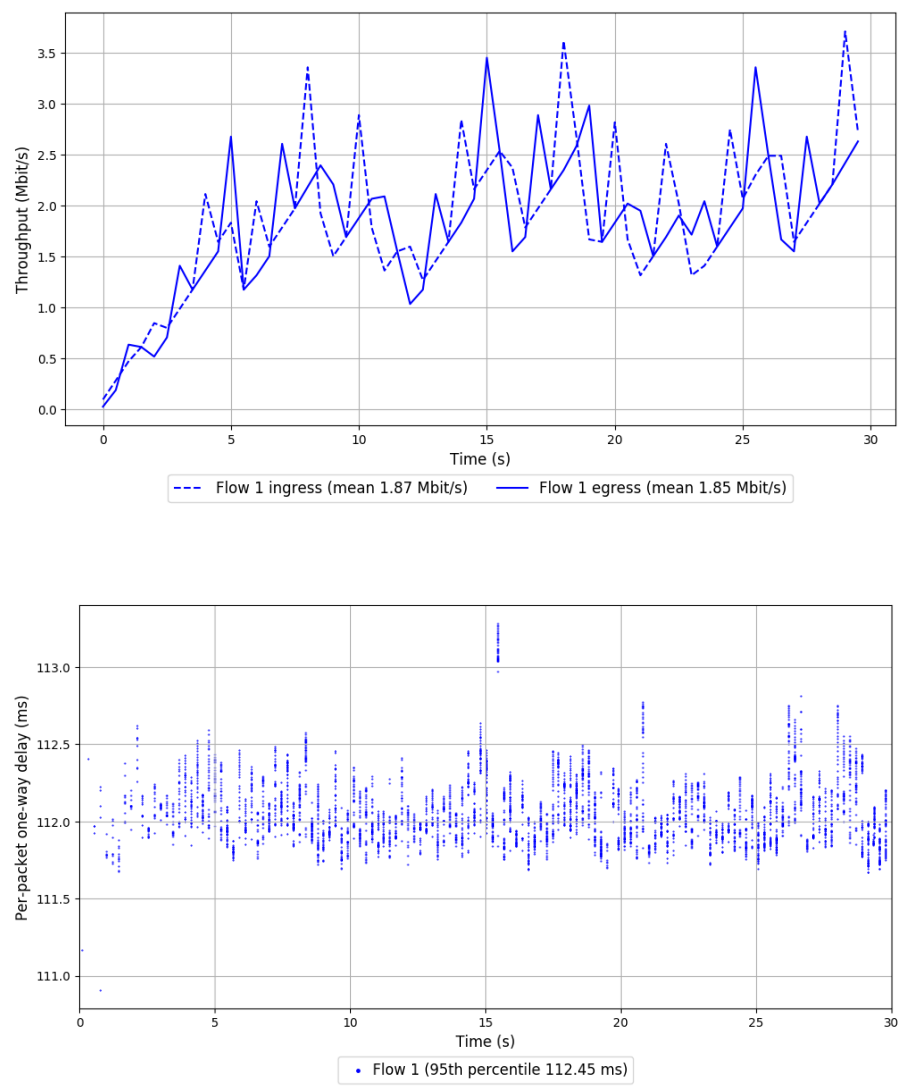
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 112.446 ms

Loss rate: 1.35%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-12-11 08:17:26

End at: 2017-12-11 08:17:56

Below is generated by plot.py at 2017-12-11 11:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 113.701 ms

Loss rate: 0.85%

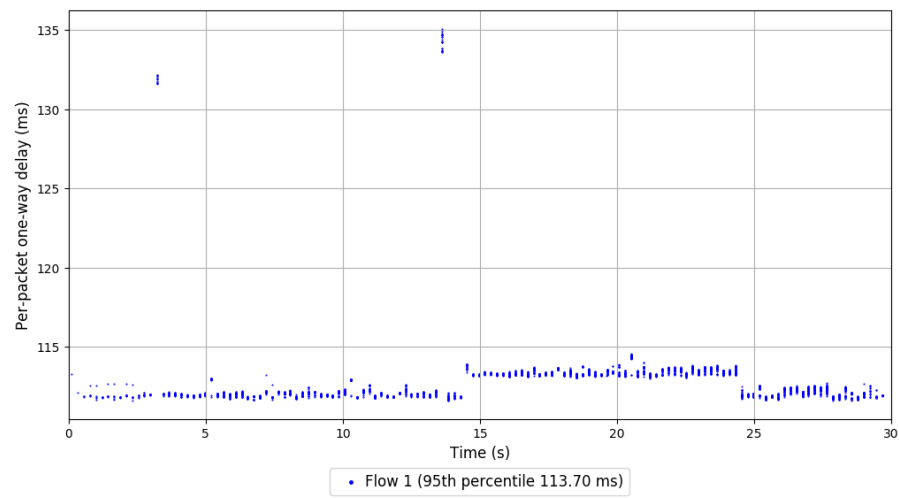
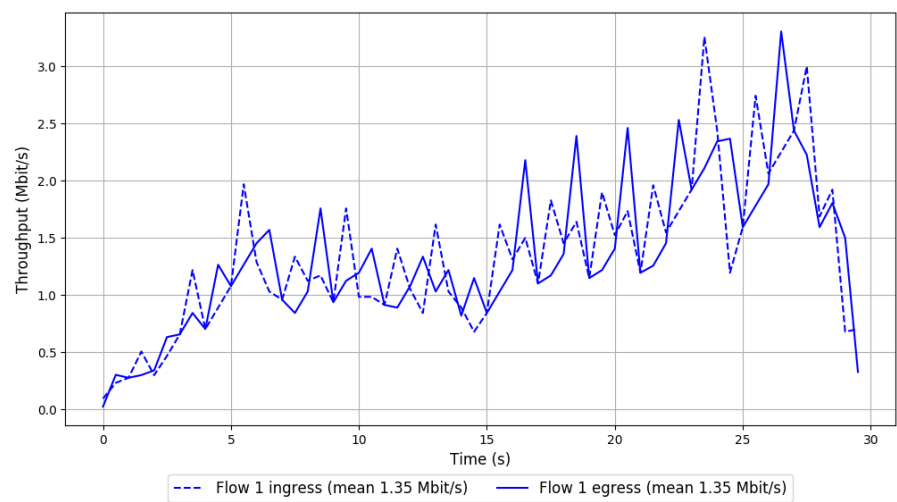
-- Flow 1:

Average throughput: 1.35 Mbit/s

95th percentile per-packet one-way delay: 113.701 ms

Loss rate: 0.85%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2017-12-11 08:28:35

End at: 2017-12-11 08:29:05

Below is generated by plot.py at 2017-12-11 11:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 112.543 ms

Loss rate: 0.65%

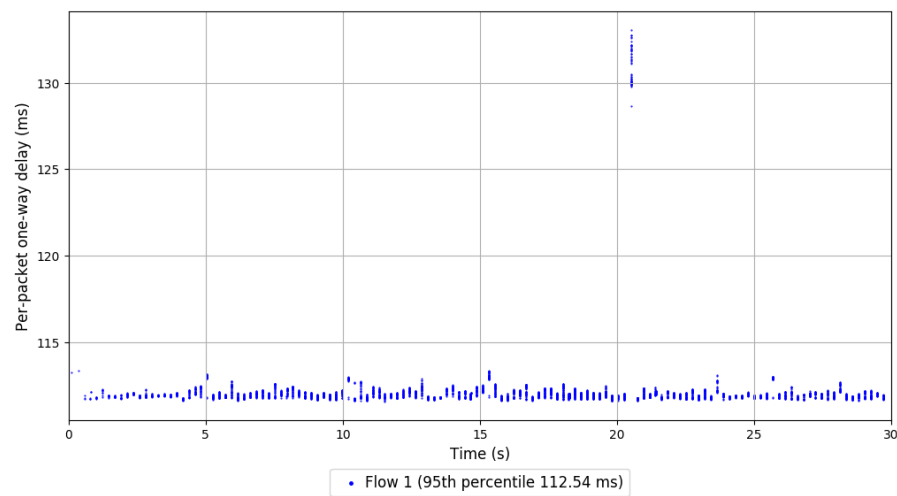
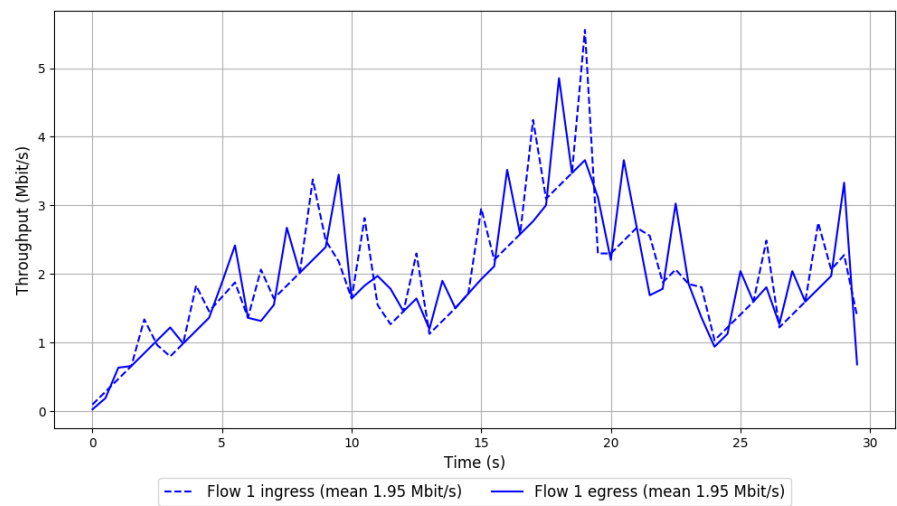
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 112.543 ms

Loss rate: 0.65%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2017-12-11 08:39:41

End at: 2017-12-11 08:40:11

Below is generated by plot.py at 2017-12-11 11:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 113.453 ms

Loss rate: 1.04%

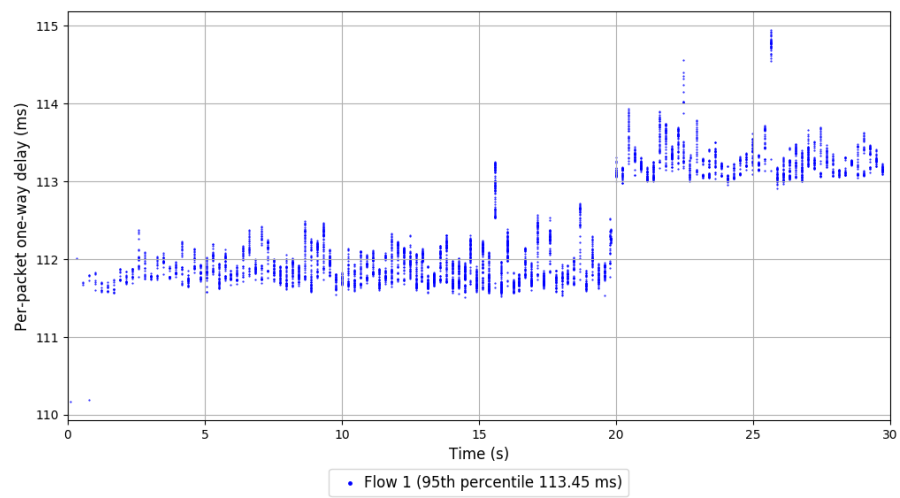
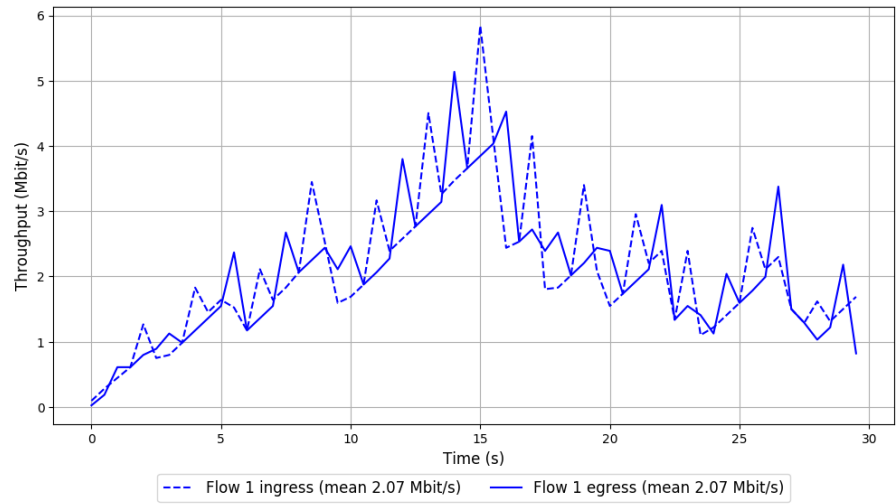
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 113.453 ms

Loss rate: 1.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-12-11 08:50:57

End at: 2017-12-11 08:51:27

Below is generated by plot.py at 2017-12-11 11:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 113.225 ms

Loss rate: 0.58%

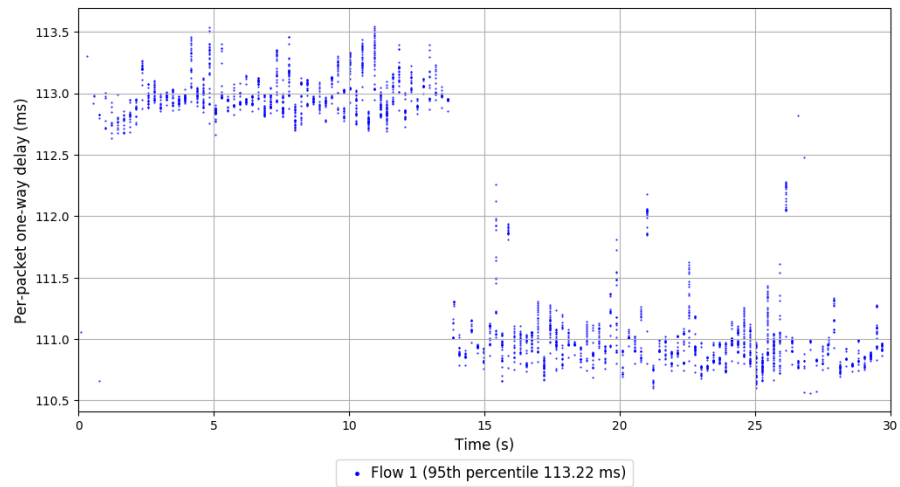
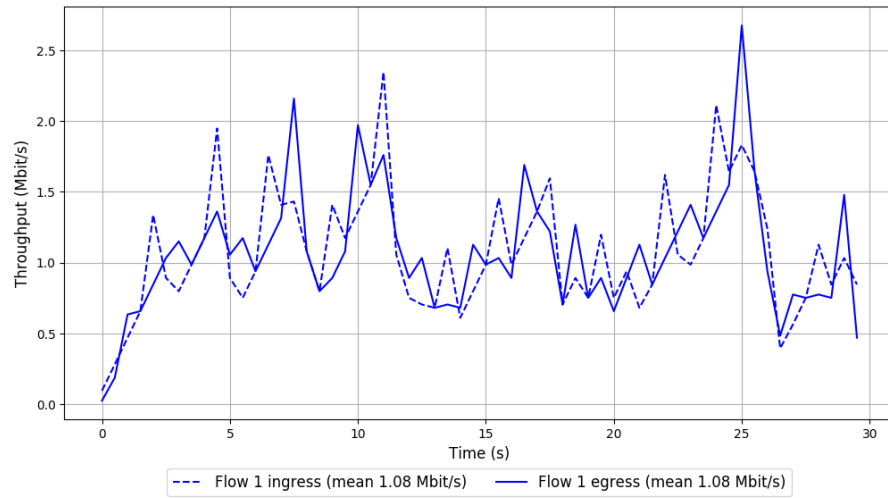
-- Flow 1:

Average throughput: 1.08 Mbit/s

95th percentile per-packet one-way delay: 113.225 ms

Loss rate: 0.58%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-12-11 09:02:03

End at: 2017-12-11 09:02:33

Below is generated by plot.py at 2017-12-11 11:07:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 113.629 ms

Loss rate: 0.72%

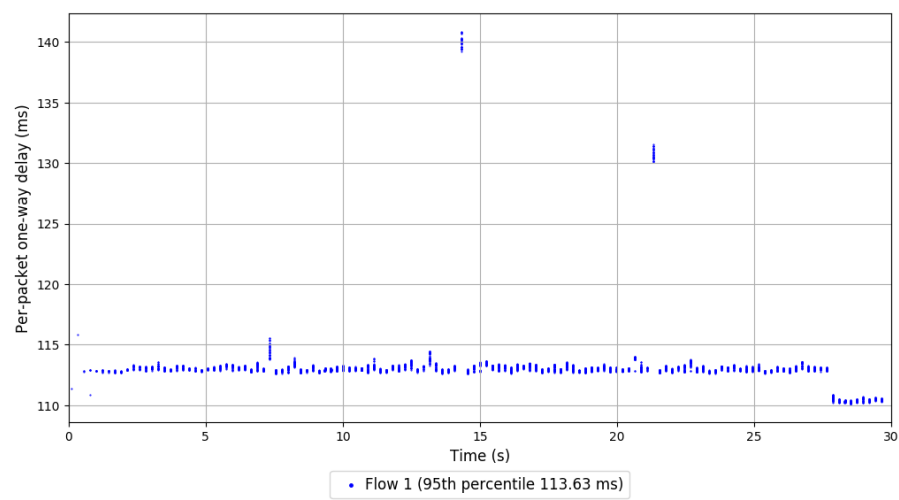
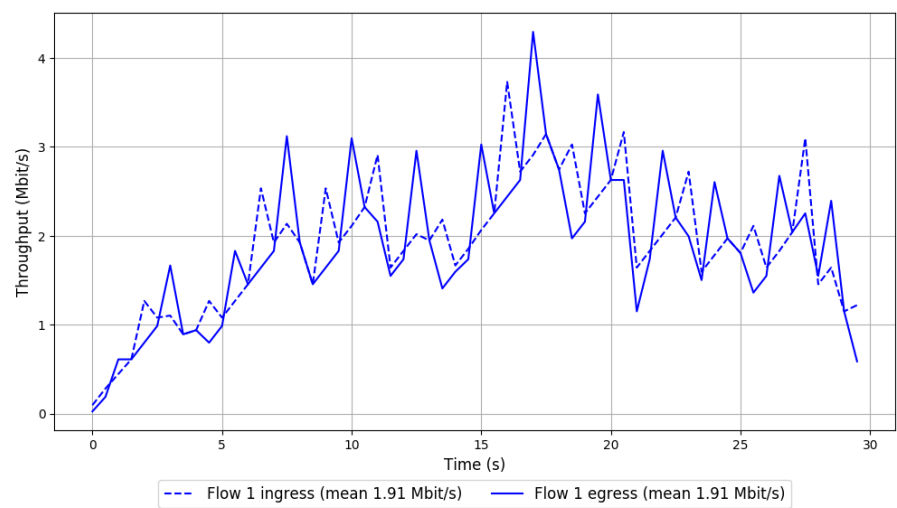
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 113.629 ms

Loss rate: 0.72%

Run 10: Report of LEDBAT — Data Link

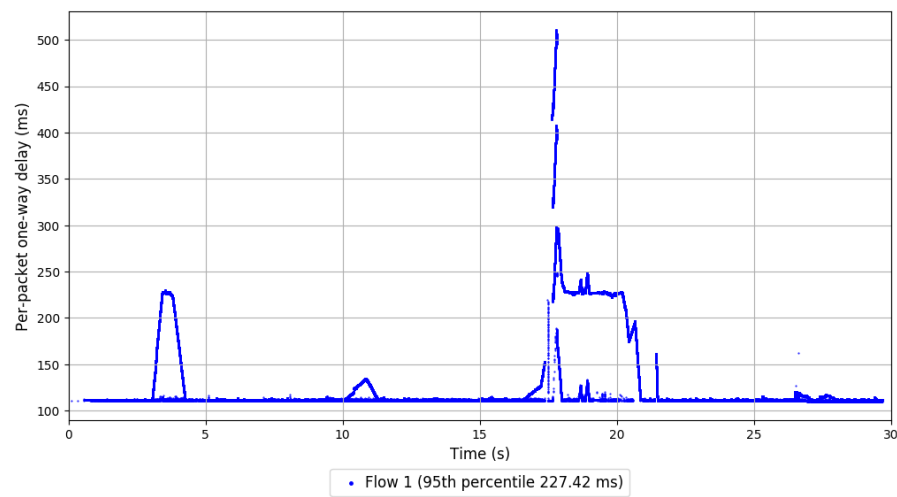
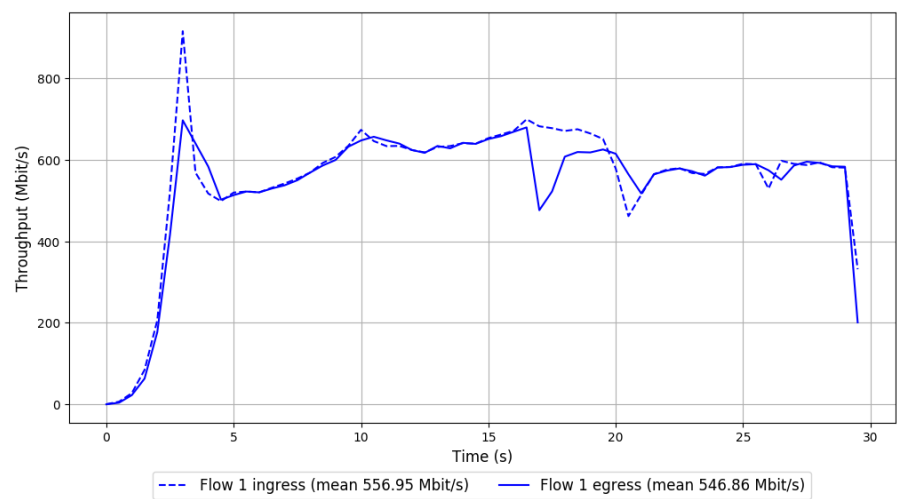


```
Run 1: Statistics of PCC

Start at: 2017-12-11 07:26:54
End at: 2017-12-11 07:27:24

# Below is generated by plot.py at 2017-12-11 11:16:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.86 Mbit/s
95th percentile per-packet one-way delay: 227.418 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 546.86 Mbit/s
95th percentile per-packet one-way delay: 227.418 ms
Loss rate: 2.55%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-12-11 07:37:44

End at: 2017-12-11 07:38:14

Below is generated by plot.py at 2017-12-11 11:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.19 Mbit/s

95th percentile per-packet one-way delay: 233.112 ms

Loss rate: 2.96%

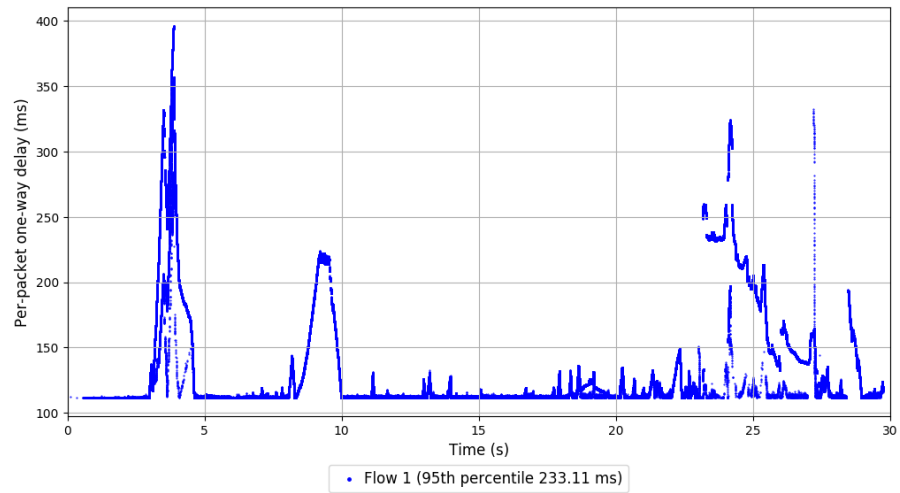
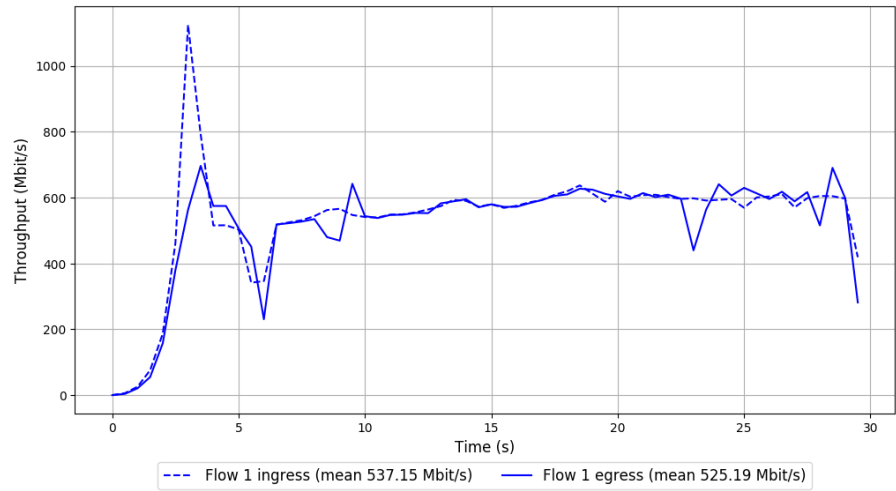
-- Flow 1:

Average throughput: 525.19 Mbit/s

95th percentile per-packet one-way delay: 233.112 ms

Loss rate: 2.96%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2017-12-11 07:48:52

End at: 2017-12-11 07:49:22

Below is generated by plot.py at 2017-12-11 11:16:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.19 Mbit/s

95th percentile per-packet one-way delay: 230.862 ms

Loss rate: 2.63%

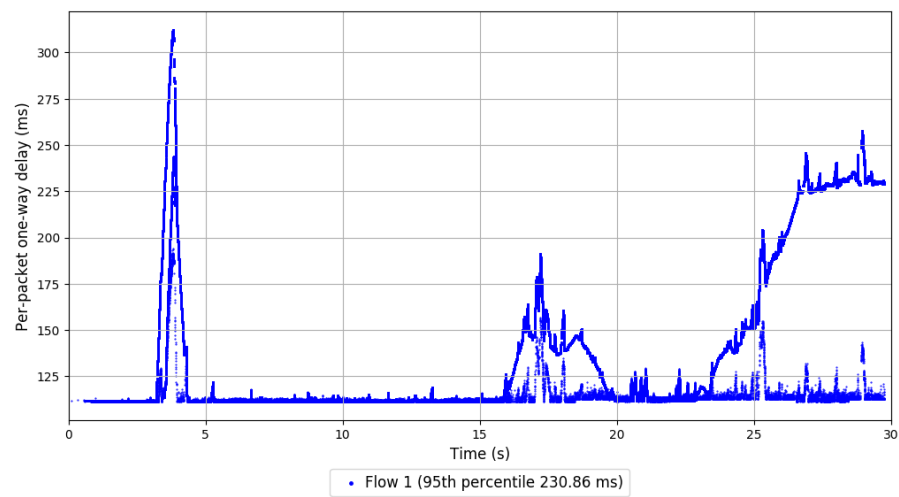
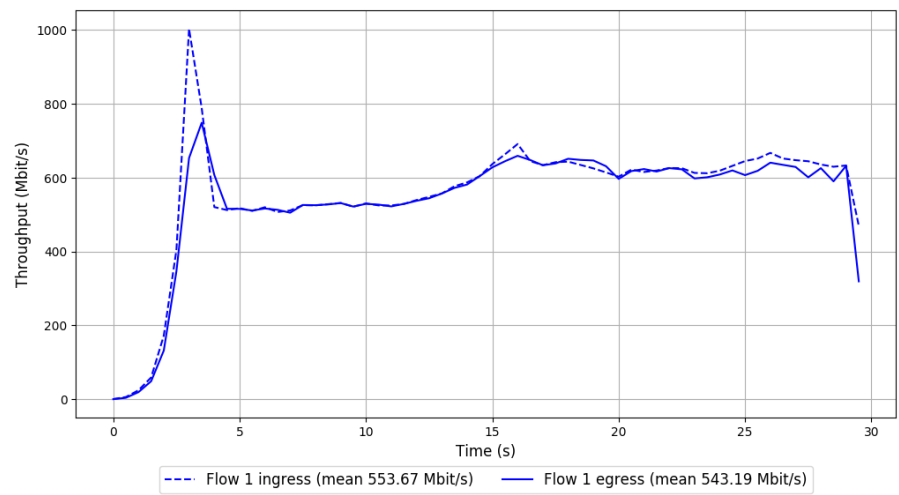
-- Flow 1:

Average throughput: 543.19 Mbit/s

95th percentile per-packet one-way delay: 230.862 ms

Loss rate: 2.63%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

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

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

Below is generated by plot.py at 2017-12-11 11:16:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 497.74 Mbit/s

95th percentile per-packet one-way delay: 195.753 ms

Loss rate: 3.37%

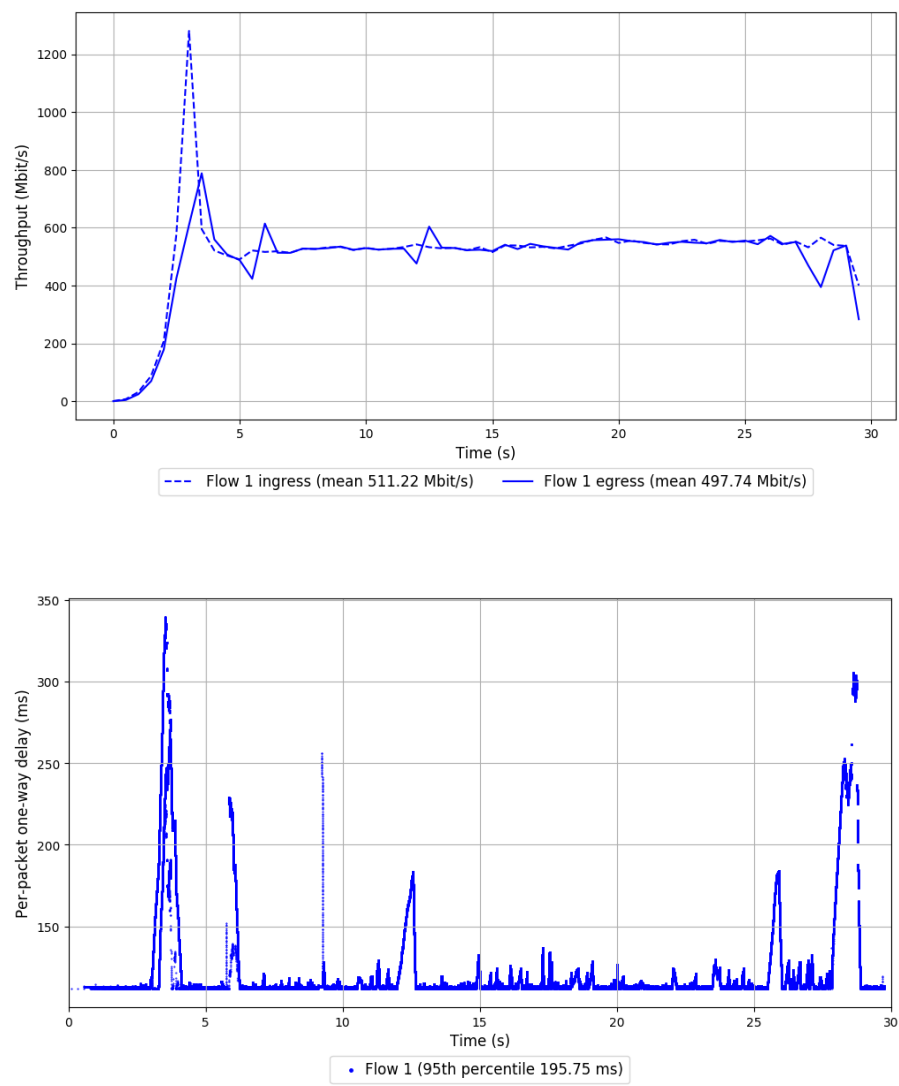
-- Flow 1:

Average throughput: 497.74 Mbit/s

95th percentile per-packet one-way delay: 195.753 ms

Loss rate: 3.37%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2017-12-11 08:10:54

End at: 2017-12-11 08:11:24

Below is generated by plot.py at 2017-12-11 11:16:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.98 Mbit/s

95th percentile per-packet one-way delay: 208.895 ms

Loss rate: 2.62%

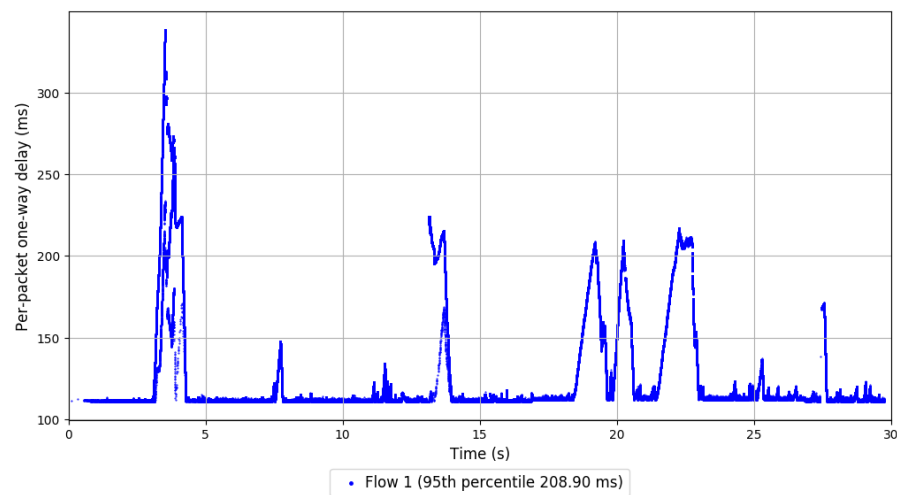
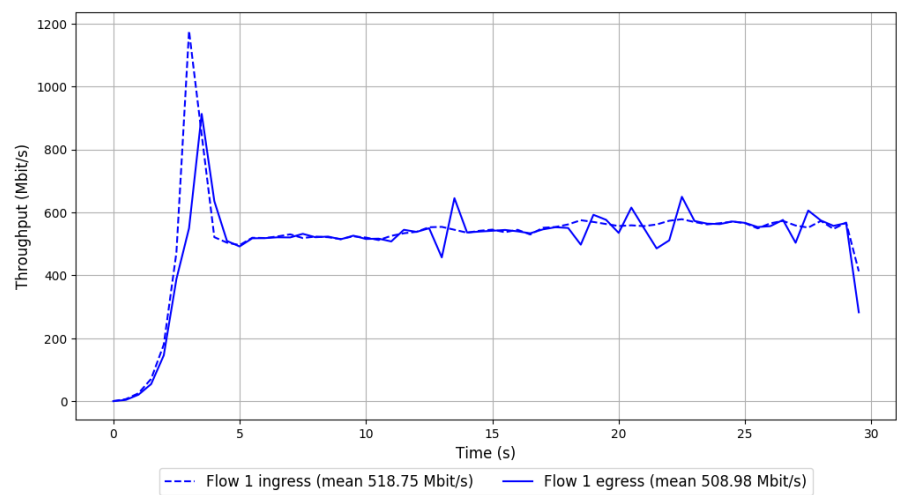
-- Flow 1:

Average throughput: 508.98 Mbit/s

95th percentile per-packet one-way delay: 208.895 ms

Loss rate: 2.62%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2017-12-11 08:21:52

End at: 2017-12-11 08:22:22

Below is generated by plot.py at 2017-12-11 11:16:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.77 Mbit/s

95th percentile per-packet one-way delay: 156.065 ms

Loss rate: 1.43%

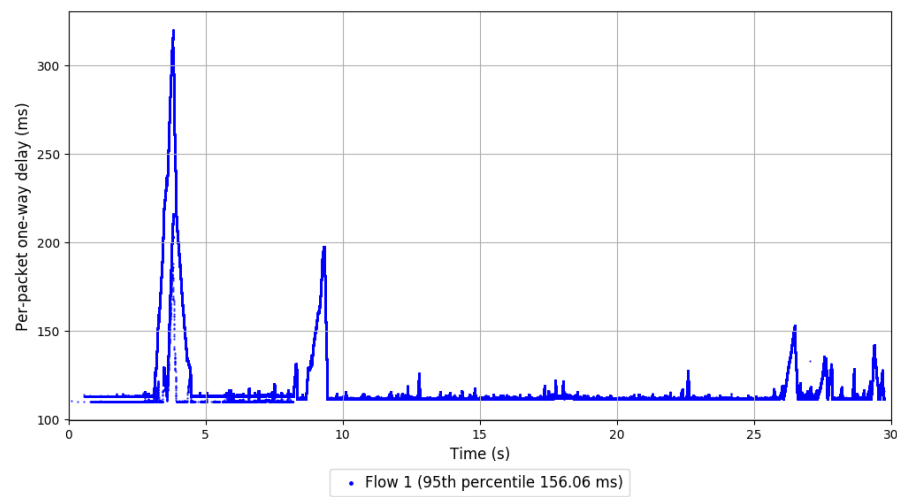
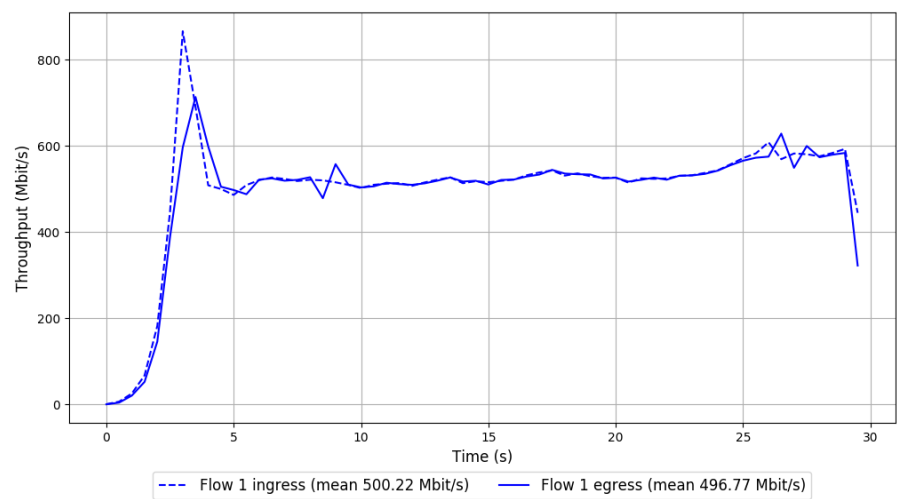
-- Flow 1:

Average throughput: 496.77 Mbit/s

95th percentile per-packet one-way delay: 156.065 ms

Loss rate: 1.43%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2017-12-11 08:33:03

End at: 2017-12-11 08:33:33

Below is generated by plot.py at 2017-12-11 11:16:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 489.92 Mbit/s

95th percentile per-packet one-way delay: 207.704 ms

Loss rate: 2.89%

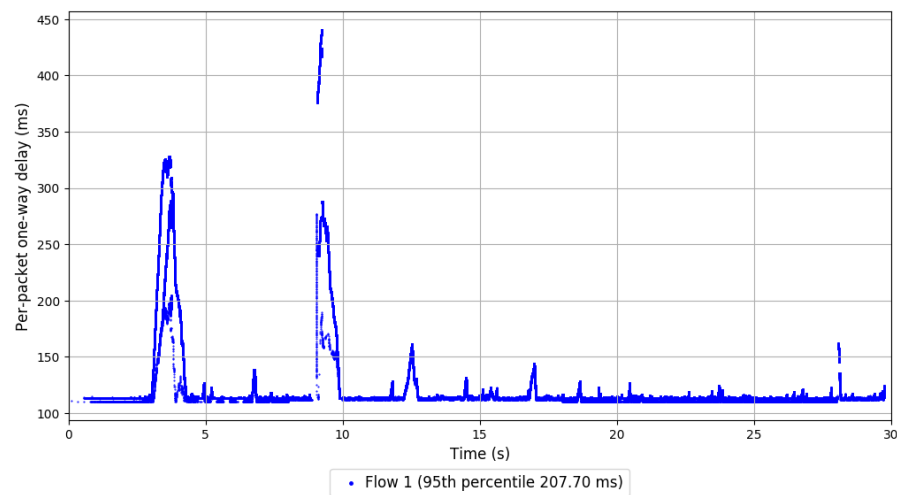
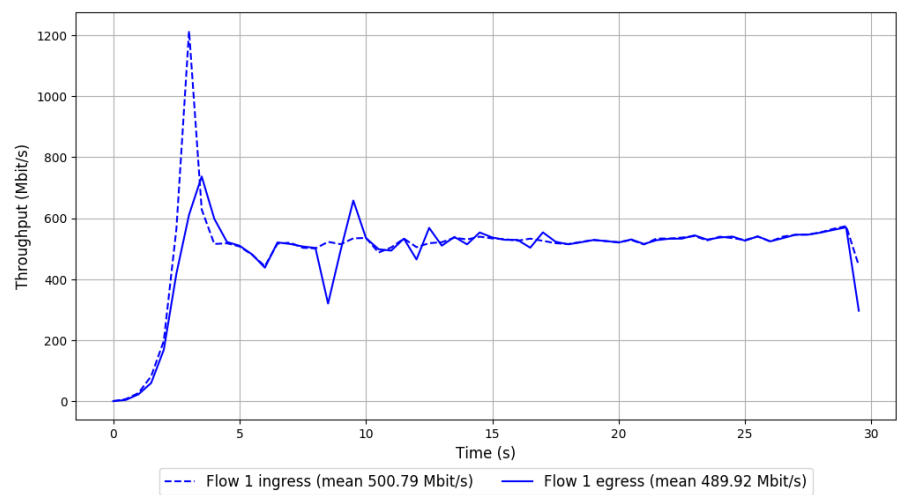
-- Flow 1:

Average throughput: 489.92 Mbit/s

95th percentile per-packet one-way delay: 207.704 ms

Loss rate: 2.89%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-12-11 08:44:14

End at: 2017-12-11 08:44:44

Below is generated by plot.py at 2017-12-11 11:16:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.30 Mbit/s

95th percentile per-packet one-way delay: 148.153 ms

Loss rate: 1.18%

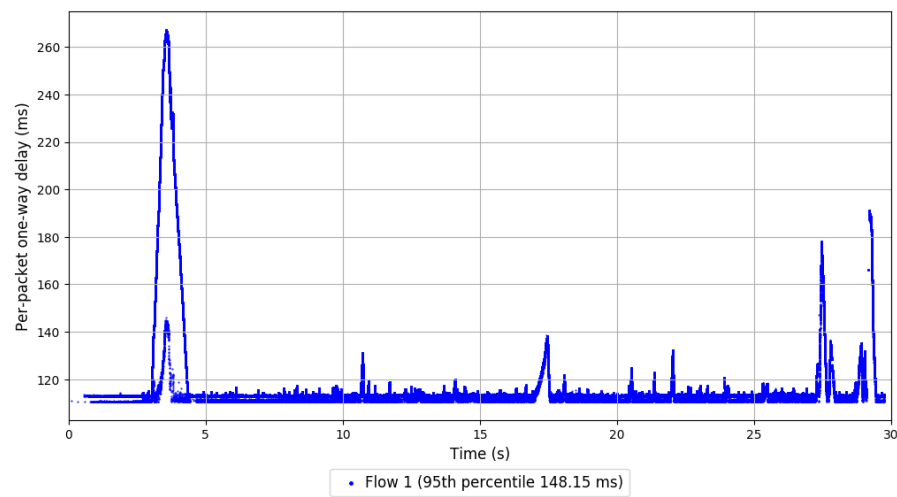
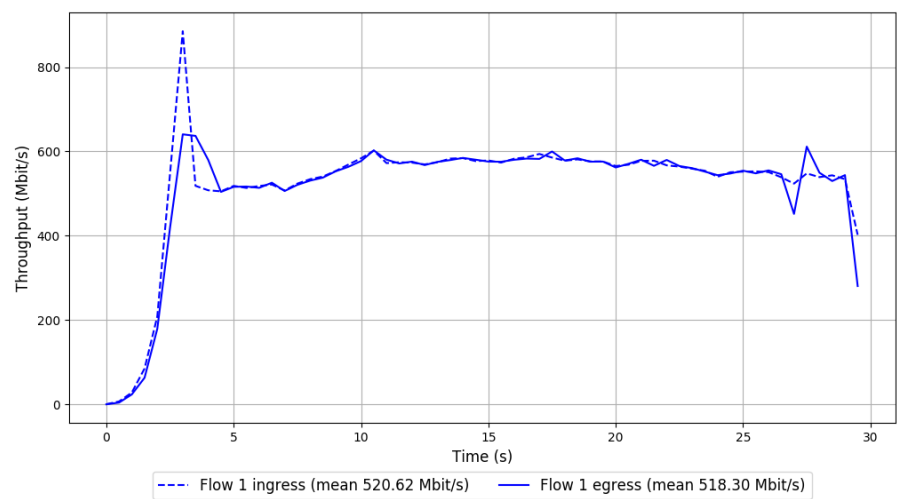
-- Flow 1:

Average throughput: 518.30 Mbit/s

95th percentile per-packet one-way delay: 148.153 ms

Loss rate: 1.18%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2017-12-11 08:55:17

End at: 2017-12-11 08:55:47

Below is generated by plot.py at 2017-12-11 11:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.47 Mbit/s

95th percentile per-packet one-way delay: 174.133 ms

Loss rate: 1.47%

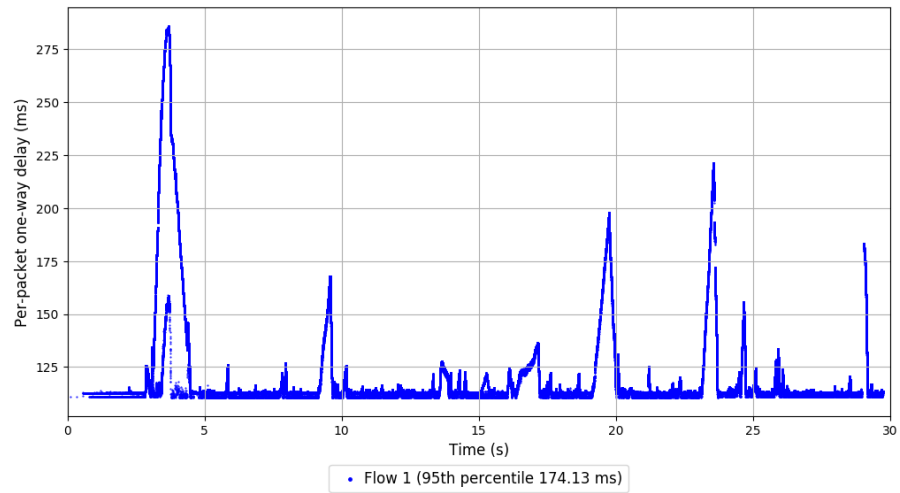
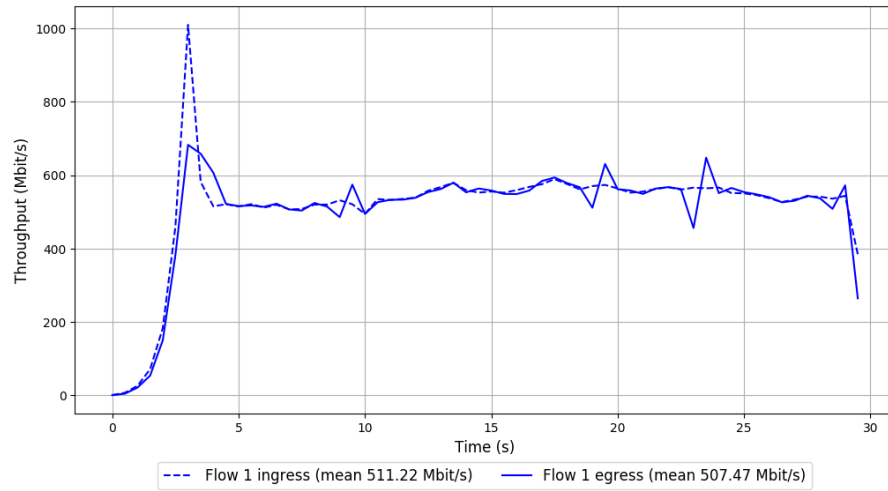
-- Flow 1:

Average throughput: 507.47 Mbit/s

95th percentile per-packet one-way delay: 174.133 ms

Loss rate: 1.47%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-12-11 09:06:24

End at: 2017-12-11 09:06:54

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.56 Mbit/s

95th percentile per-packet one-way delay: 188.019 ms

Loss rate: 2.35%

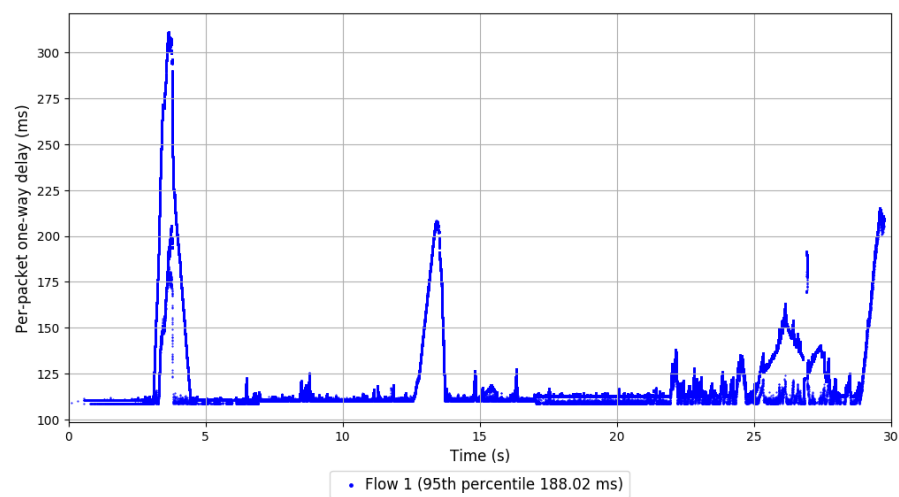
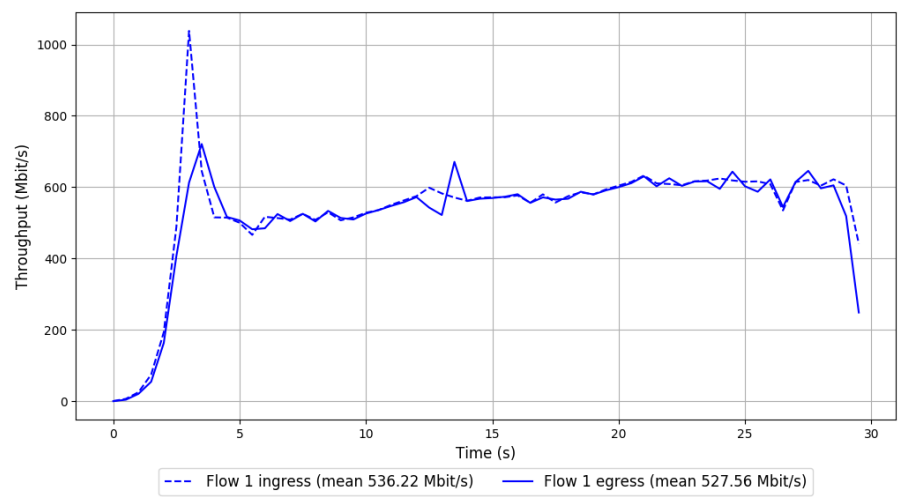
-- Flow 1:

Average throughput: 527.56 Mbit/s

95th percentile per-packet one-way delay: 188.019 ms

Loss rate: 2.35%

Run 10: Report of PCC — Data Link

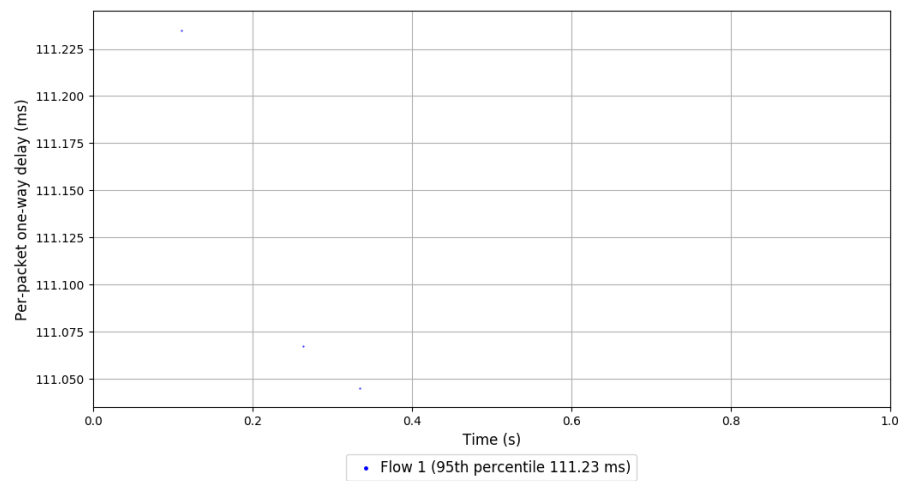
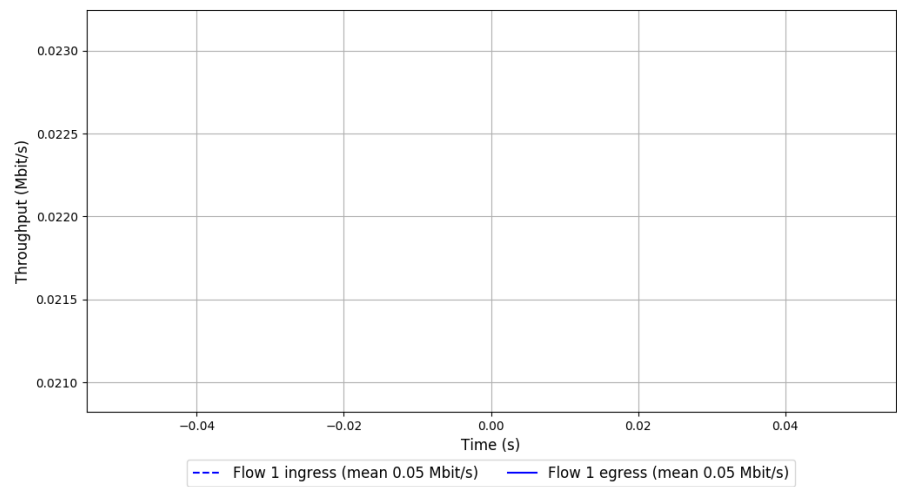


Run 1: Statistics of QUIC Cubic

Start at: 2017-12-11 07:23:57

End at: 2017-12-11 07:24:27

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-12-11 07:34:56

End at: 2017-12-11 07:35:26

Run 2: Report of QUIC Cubic — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of QUIC Cubic

Start at: 2017-12-11 07:45:49

End at: 2017-12-11 07:46:19

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 113.748 ms

Loss rate: 0.99%

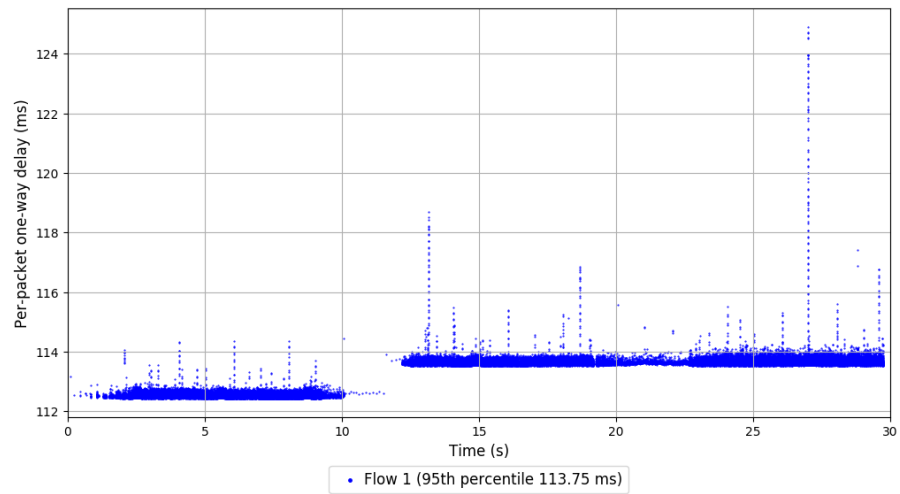
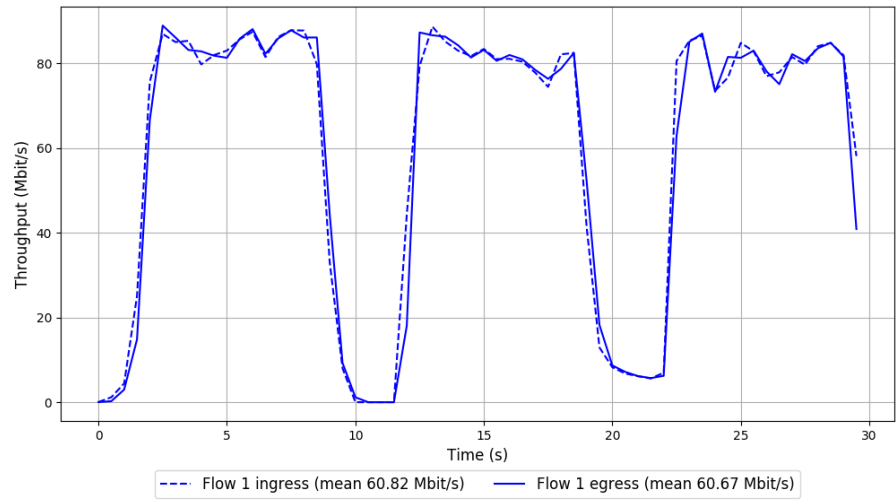
-- Flow 1:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 113.748 ms

Loss rate: 0.99%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-12-11 07:57:02

End at: 2017-12-11 07:57:32

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.00 Mbit/s

95th percentile per-packet one-way delay: 112.021 ms

Loss rate: 1.01%

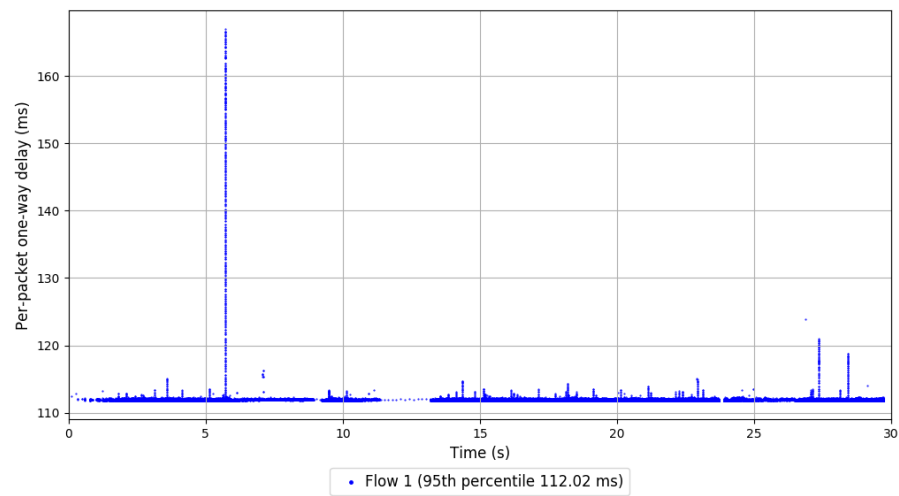
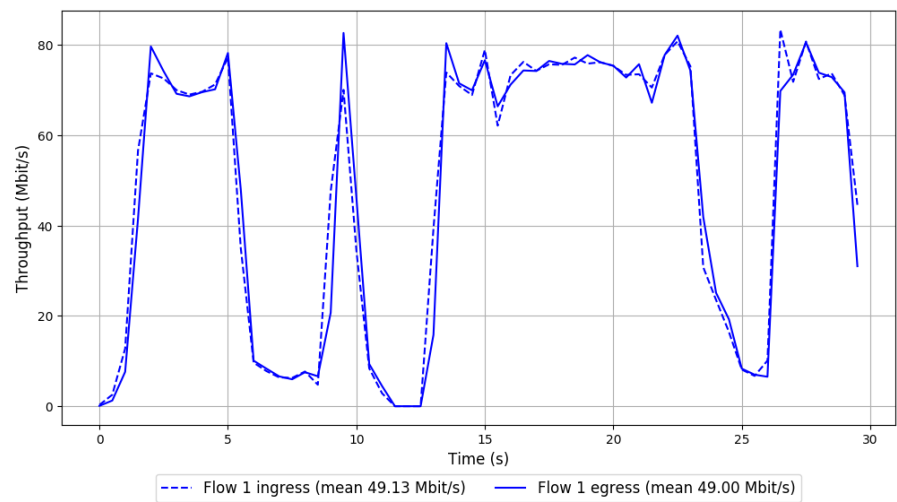
-- Flow 1:

Average throughput: 49.00 Mbit/s

95th percentile per-packet one-way delay: 112.021 ms

Loss rate: 1.01%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-12-11 08:08:02

End at: 2017-12-11 08:08:32

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 111.101 ms

Loss rate: 1.05%

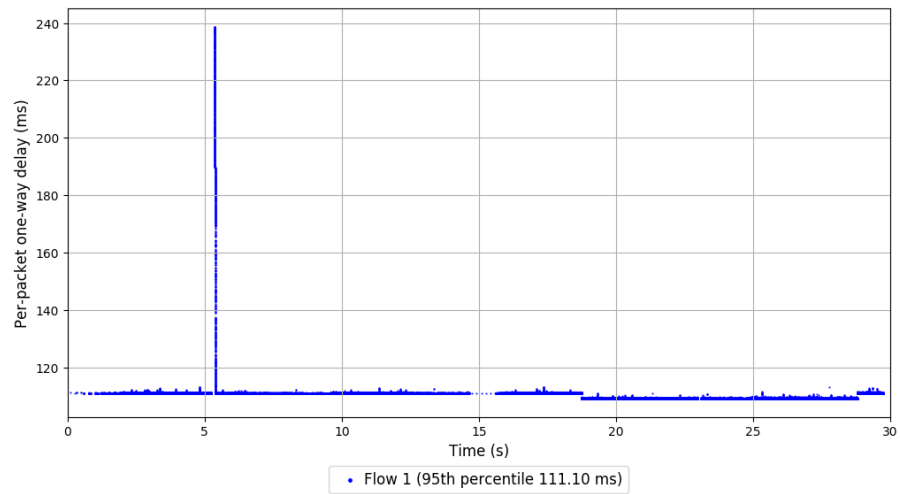
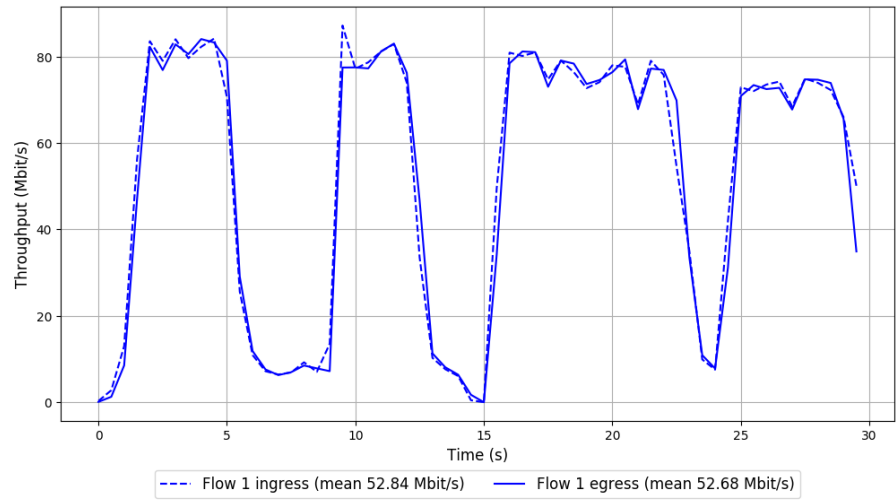
-- Flow 1:

Average throughput: 52.68 Mbit/s

95th percentile per-packet one-way delay: 111.101 ms

Loss rate: 1.05%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-12-11 08:18:55

End at: 2017-12-11 08:19:25

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.09 Mbit/s

95th percentile per-packet one-way delay: 111.900 ms

Loss rate: 1.00%

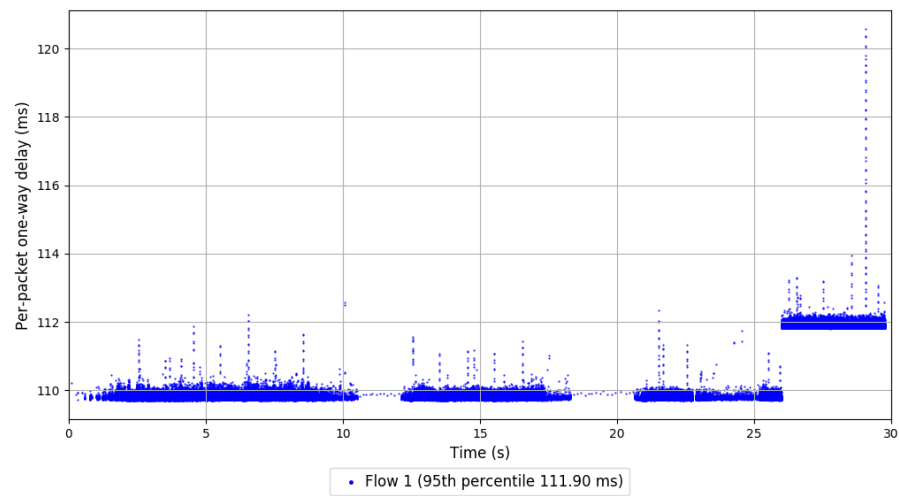
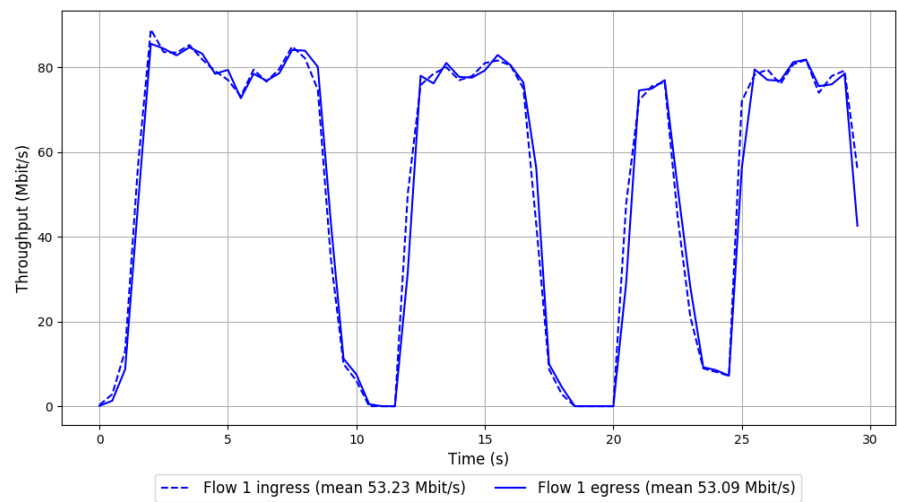
-- Flow 1:

Average throughput: 53.09 Mbit/s

95th percentile per-packet one-way delay: 111.900 ms

Loss rate: 1.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-12-11 08:30:05

End at: 2017-12-11 08:30:35

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 112.708 ms

Loss rate: 0.86%

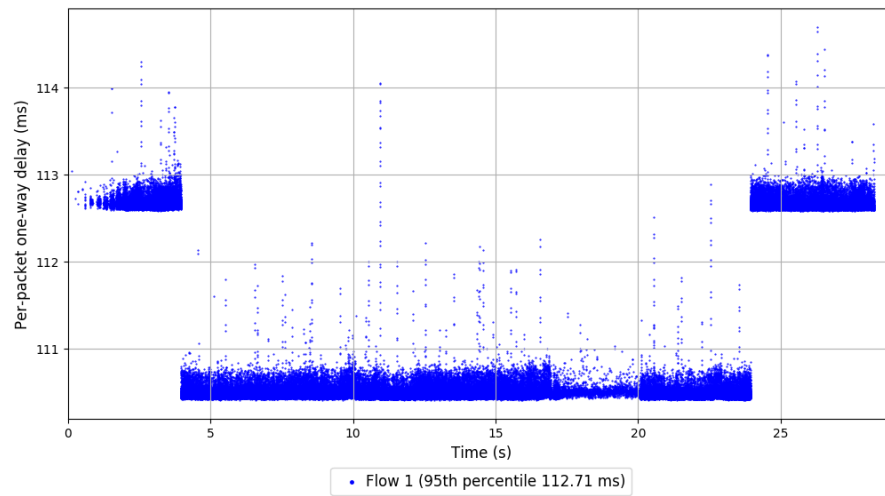
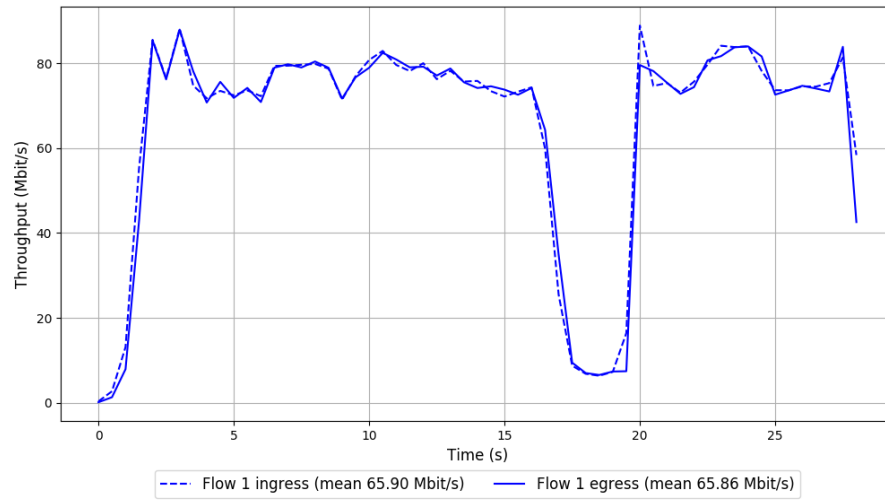
-- Flow 1:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 112.708 ms

Loss rate: 0.86%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-12-11 08:41:11

End at: 2017-12-11 08:41:41

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 112.727 ms

Loss rate: 1.00%

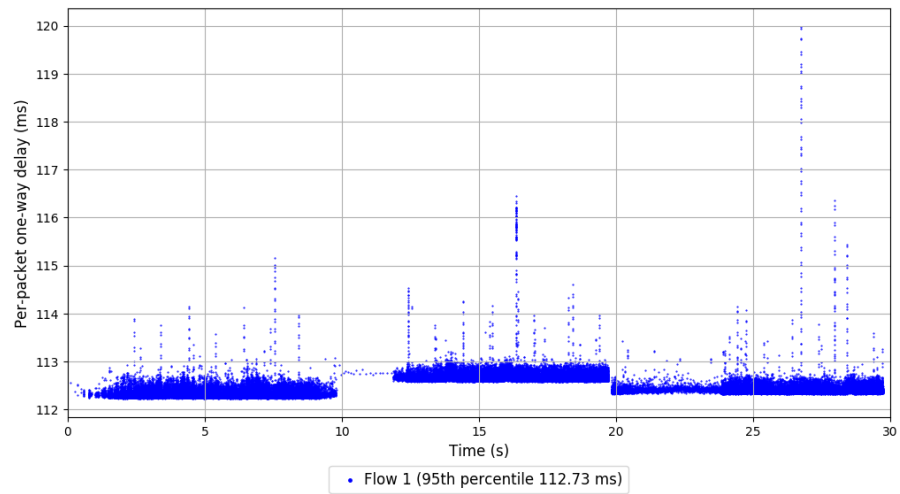
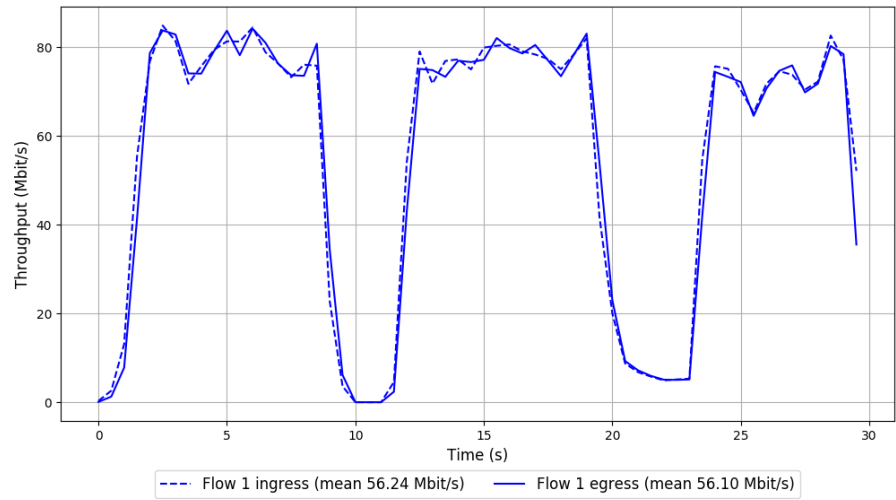
-- Flow 1:

Average throughput: 56.10 Mbit/s

95th percentile per-packet one-way delay: 112.727 ms

Loss rate: 1.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-12-11 08:52:26

End at: 2017-12-11 08:52:56

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.13 Mbit/s

95th percentile per-packet one-way delay: 114.349 ms

Loss rate: 1.04%

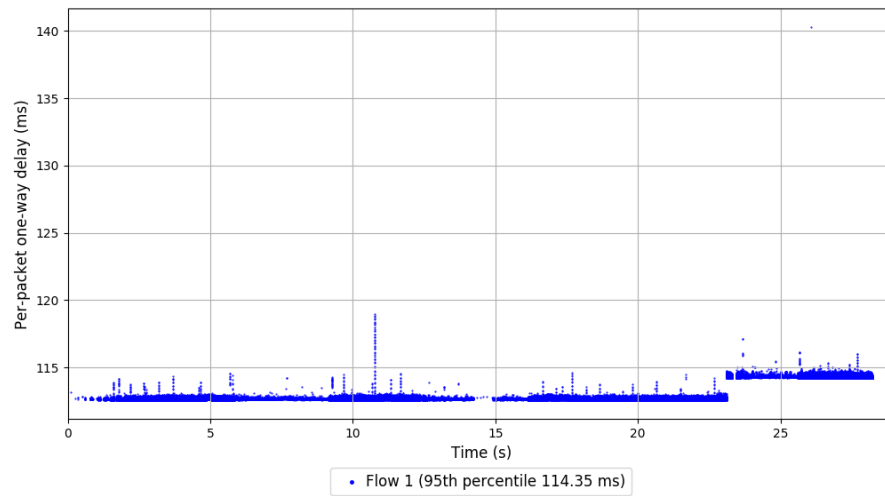
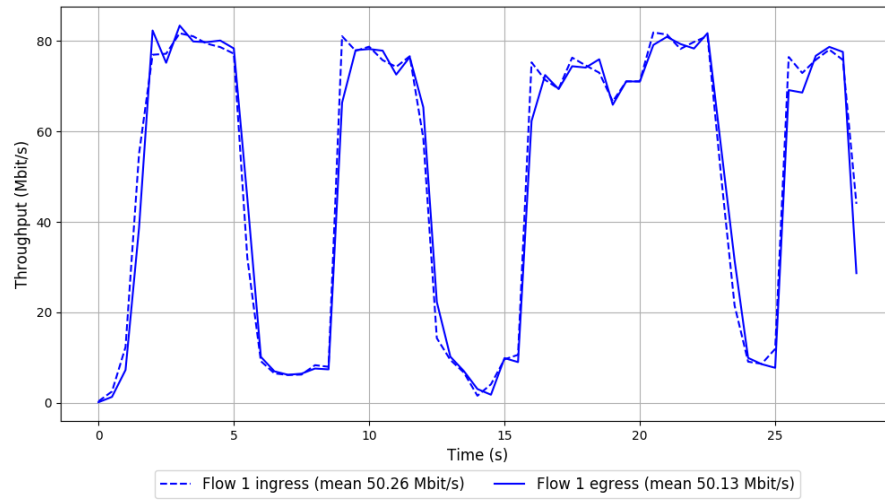
-- Flow 1:

Average throughput: 50.13 Mbit/s

95th percentile per-packet one-way delay: 114.349 ms

Loss rate: 1.04%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-12-11 09:03:27

End at: 2017-12-11 09:03:57

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 113.260 ms

Loss rate: 1.02%

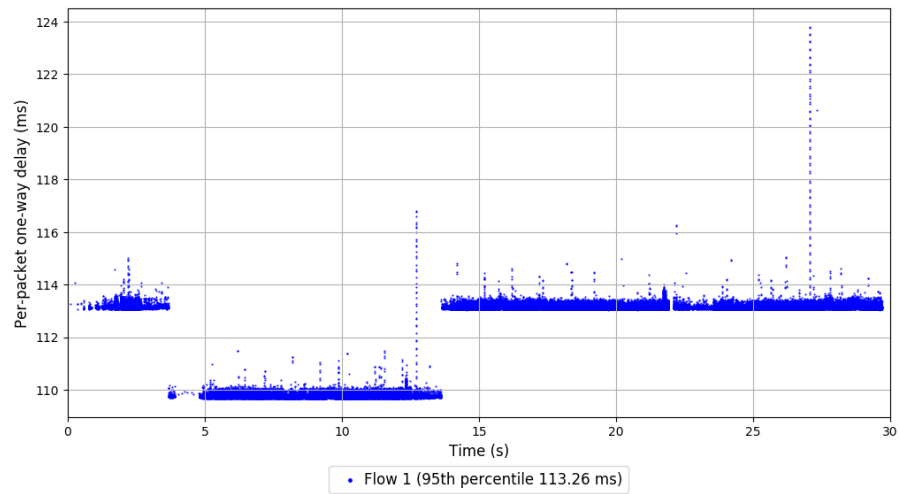
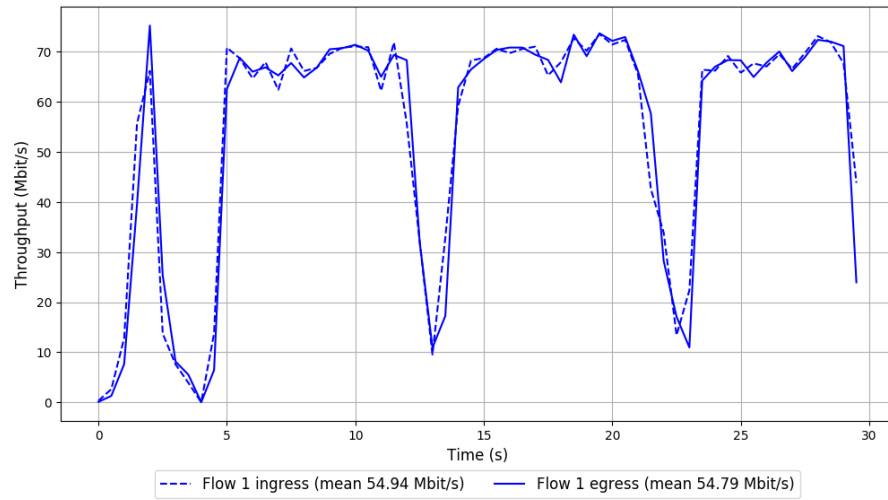
-- Flow 1:

Average throughput: 54.79 Mbit/s

95th percentile per-packet one-way delay: 113.260 ms

Loss rate: 1.02%

Run 10: Report of QUIC Cubic — Data Link

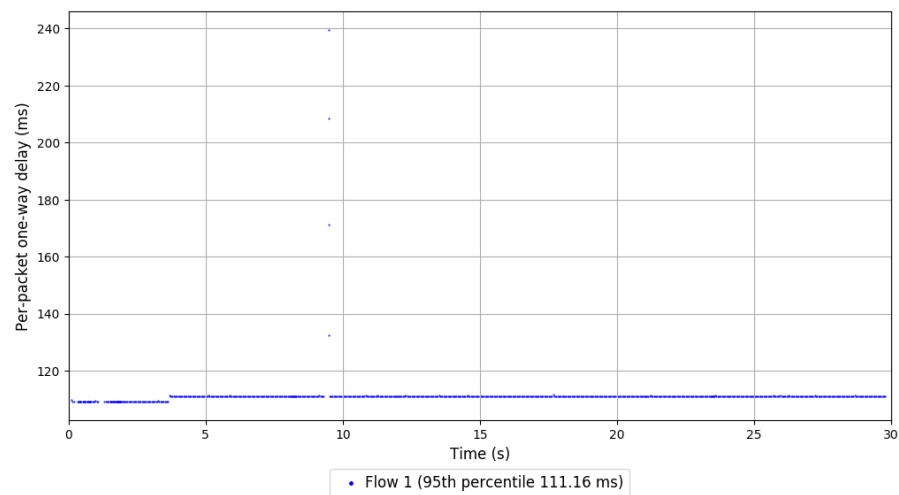
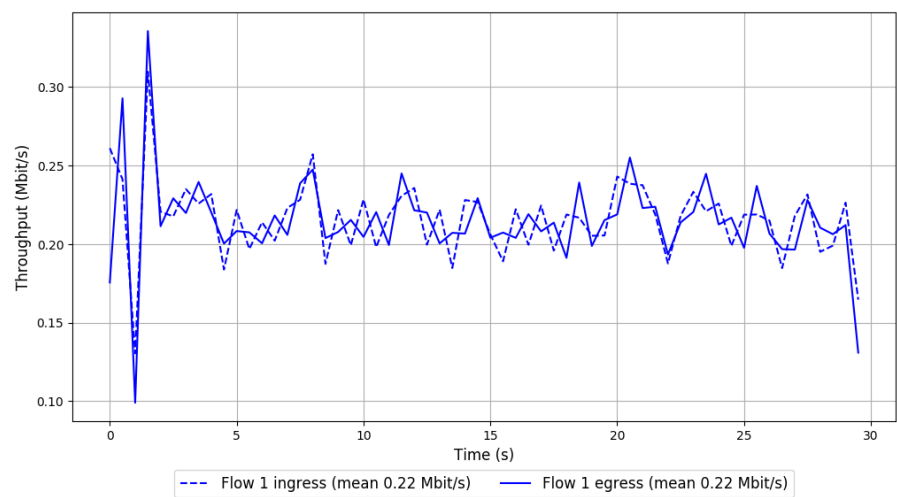


```
Run 1: Statistics of SCReAM

Start at: 2017-12-11 07:27:57
End at: 2017-12-11 07:28:27

# Below is generated by plot.py at 2017-12-11 11:25:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.158 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 111.158 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

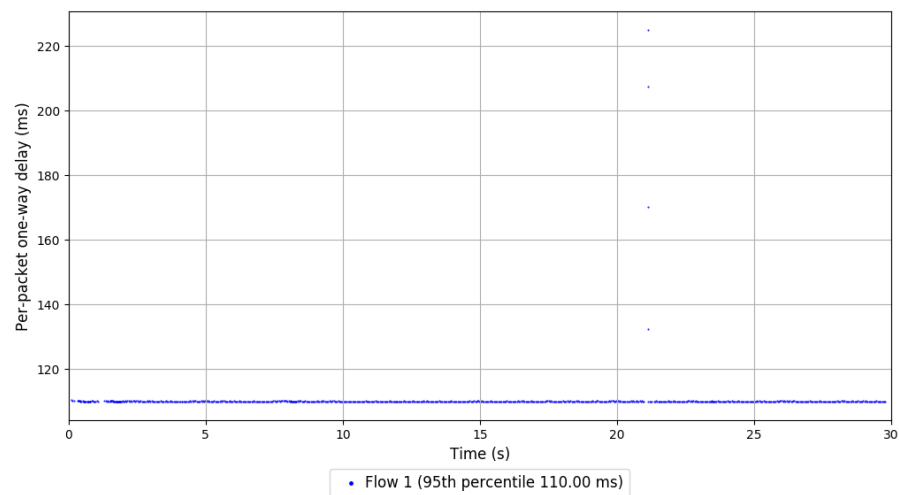
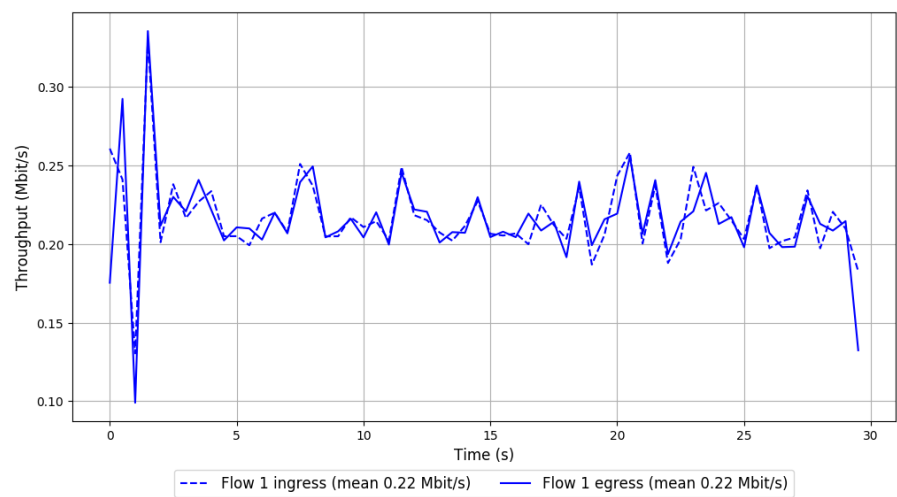


```
Run 2: Statistics of SCReAM

Start at: 2017-12-11 07:38:50
End at: 2017-12-11 07:39:20

# Below is generated by plot.py at 2017-12-11 11:25:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.995 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.995 ms
Loss rate: 0.76%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-12-11 07:49:56

End at: 2017-12-11 07:50:26

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.842 ms

Loss rate: 0.64%

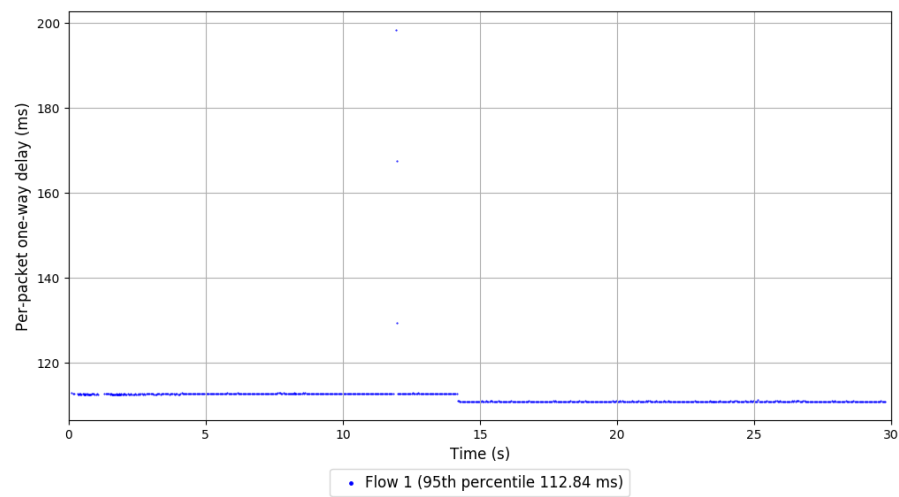
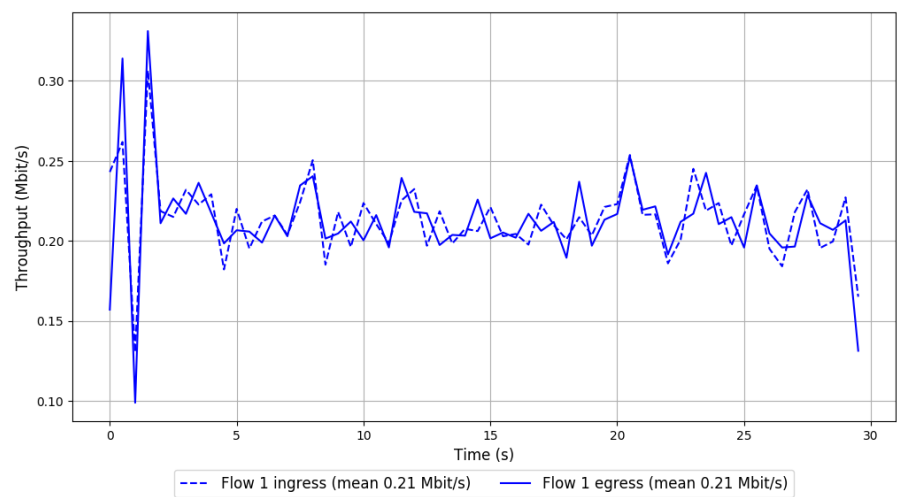
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.842 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-12-11 08:01:04

End at: 2017-12-11 08:01:34

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.256 ms

Loss rate: 0.77%

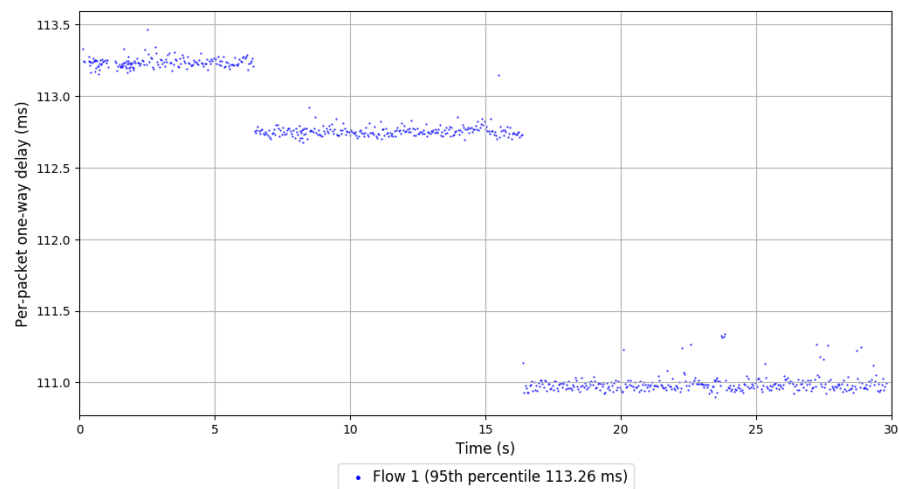
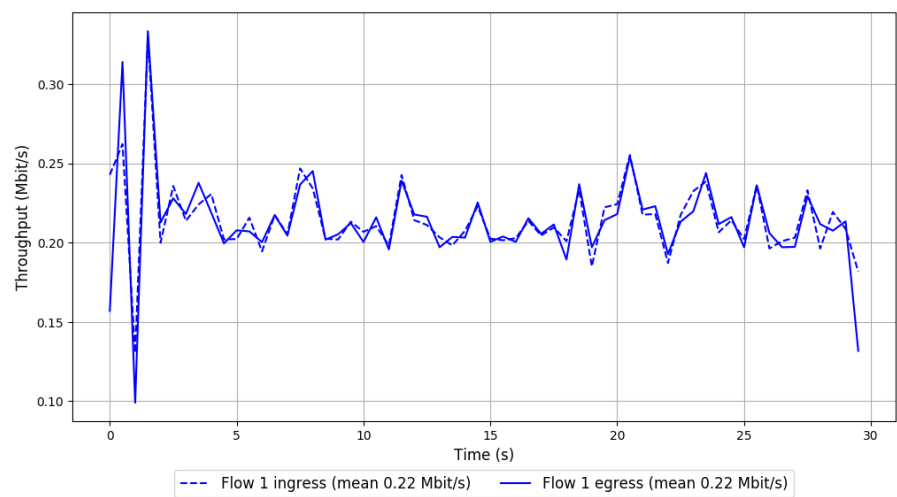
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.256 ms

Loss rate: 0.77%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2017-12-11 08:11:58

End at: 2017-12-11 08:12:28

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.864 ms

Loss rate: 0.77%

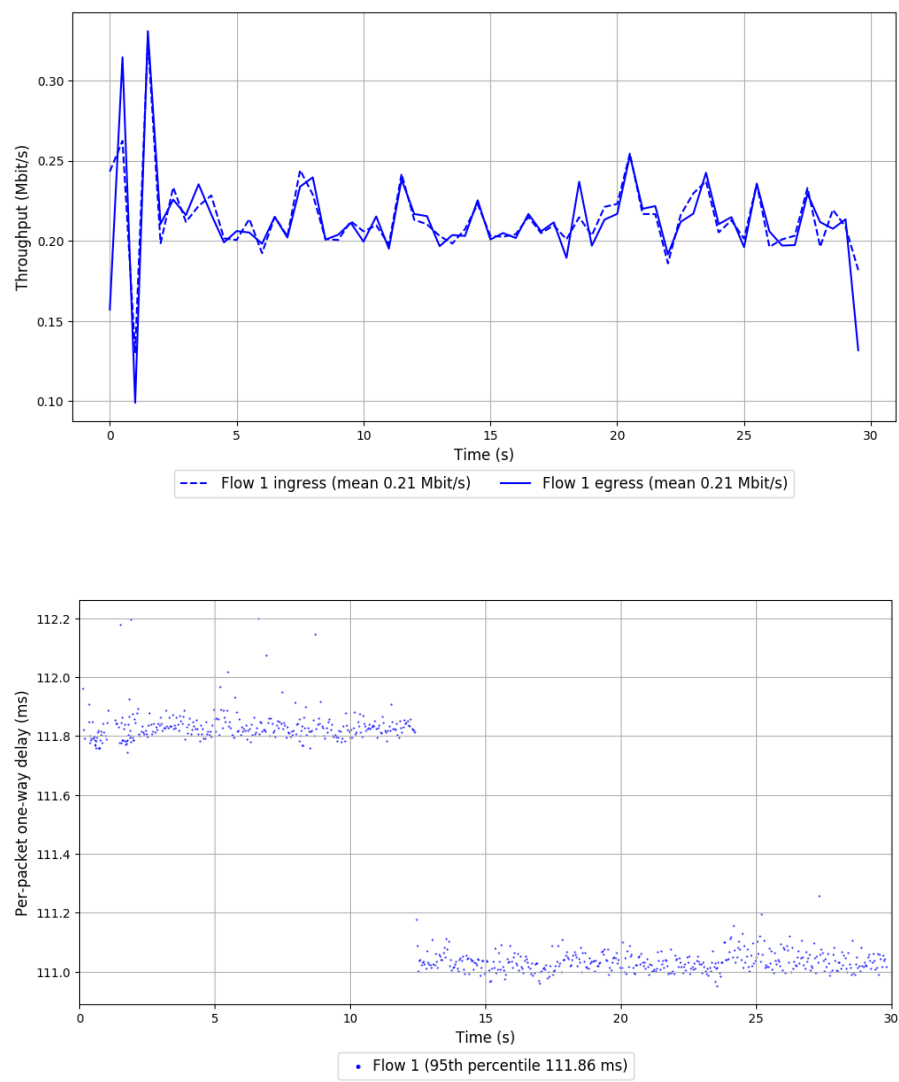
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.864 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2017-12-11 08:22:57

End at: 2017-12-11 08:23:28

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.028 ms

Loss rate: 0.77%

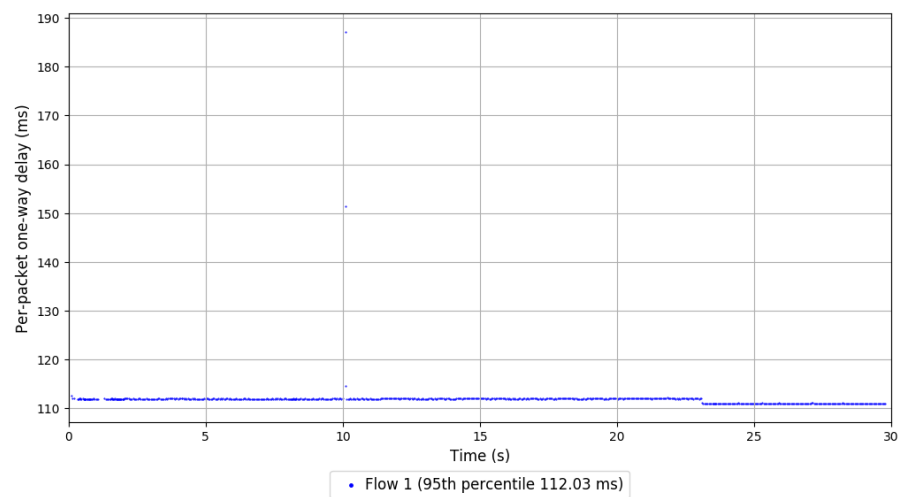
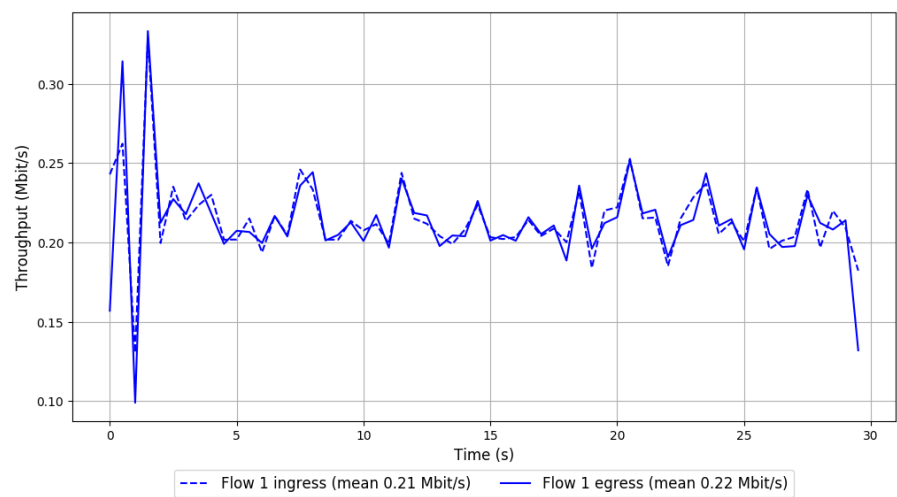
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.028 ms

Loss rate: 0.77%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2017-12-11 08:34:06

End at: 2017-12-11 08:34:36

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.153 ms

Loss rate: 0.76%

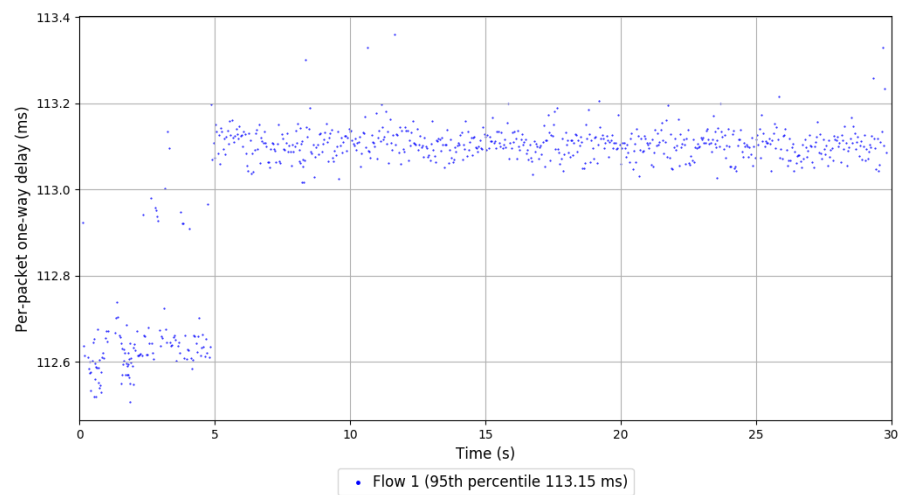
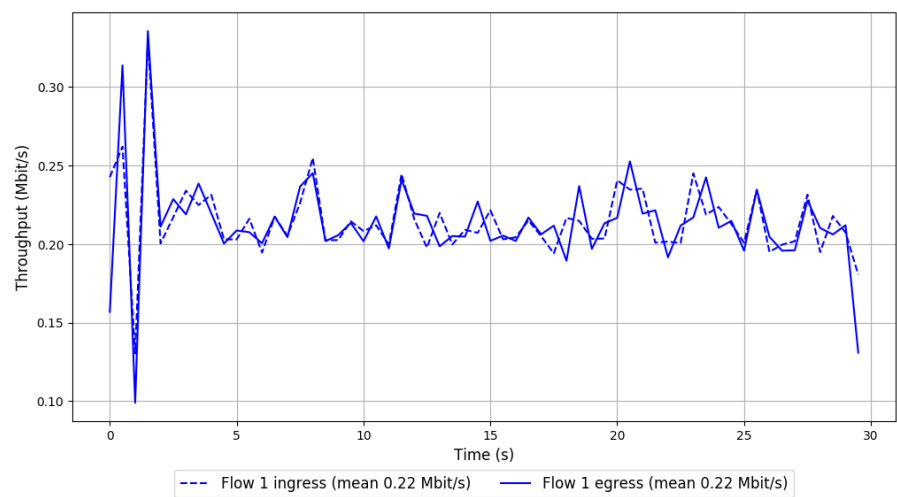
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.153 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-12-11 08:45:19

End at: 2017-12-11 08:45:49

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 115.144 ms

Loss rate: 0.76%

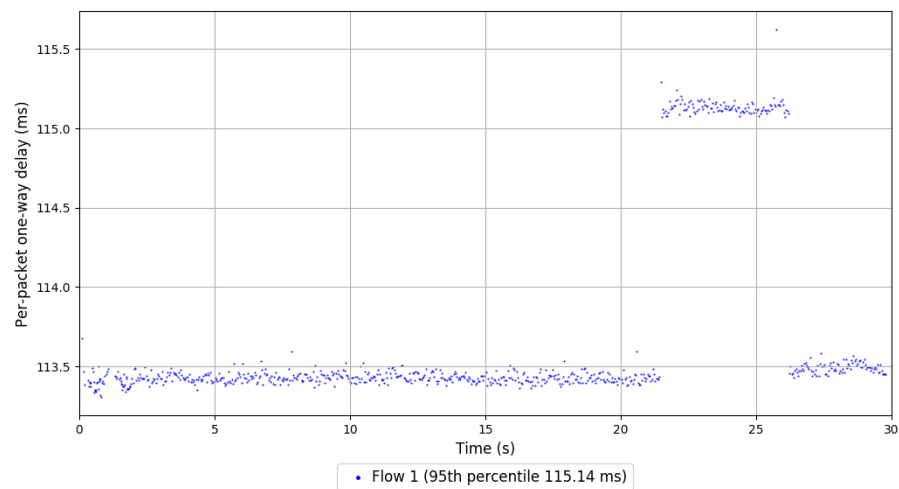
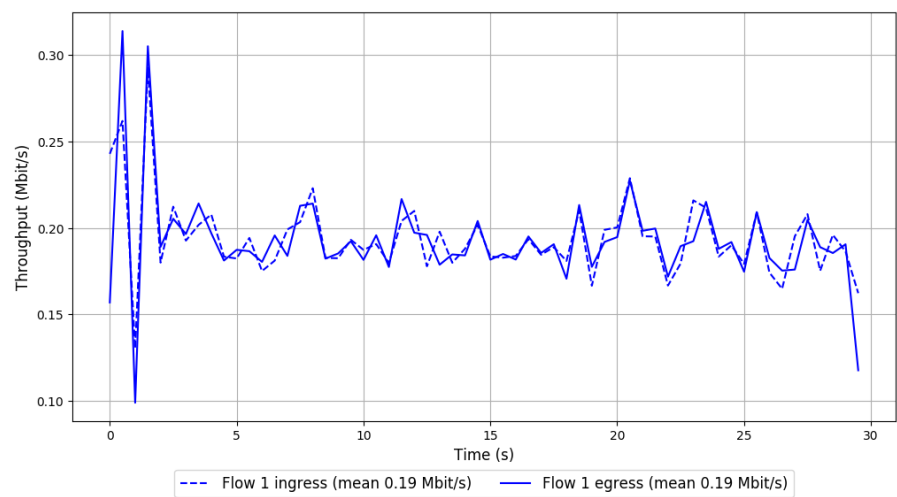
-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 115.144 ms

Loss rate: 0.76%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-12-11 08:56:21

End at: 2017-12-11 08:56:51

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.535 ms

Loss rate: 0.77%

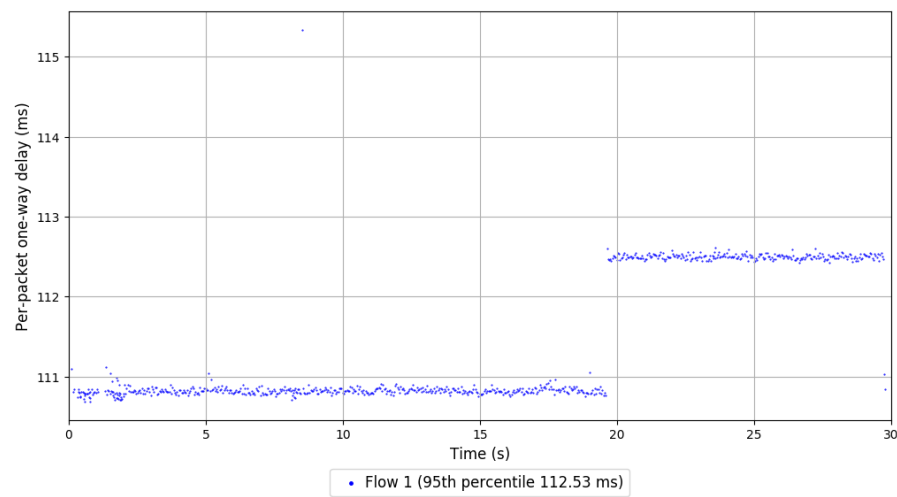
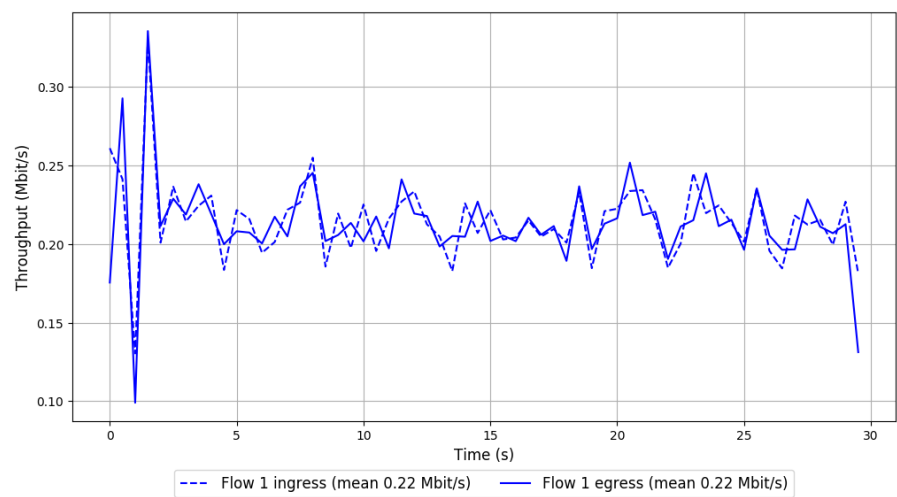
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.535 ms

Loss rate: 0.77%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-12-11 09:07:29

End at: 2017-12-11 09:07:59

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.789 ms

Loss rate: 0.77%

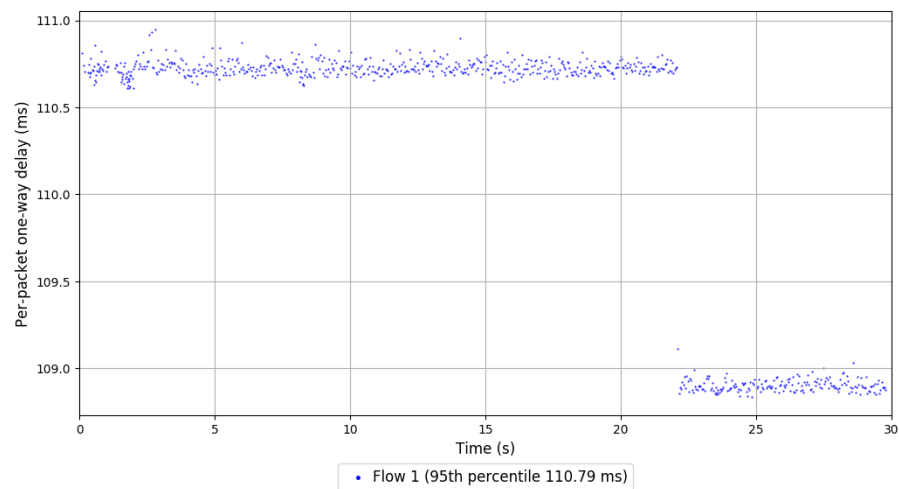
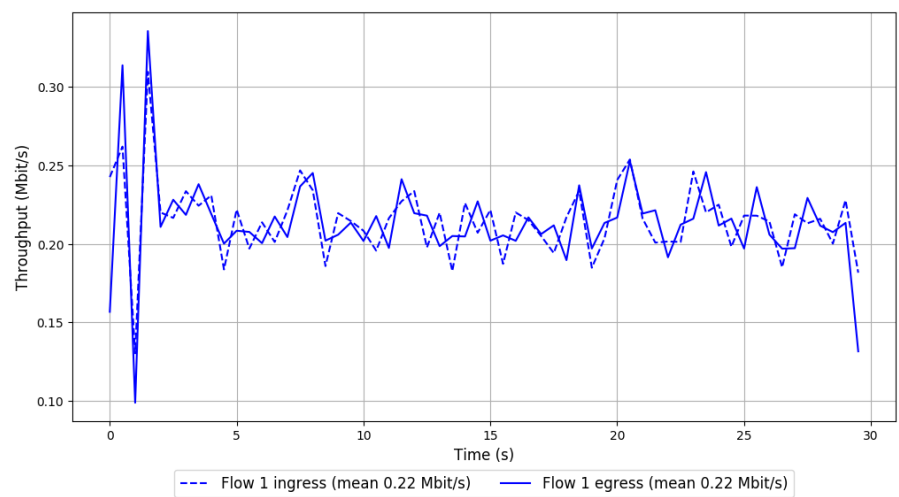
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.789 ms

Loss rate: 0.77%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-12-11 07:29:29

End at: 2017-12-11 07:29:59

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 112.122 ms

Loss rate: 1.20%

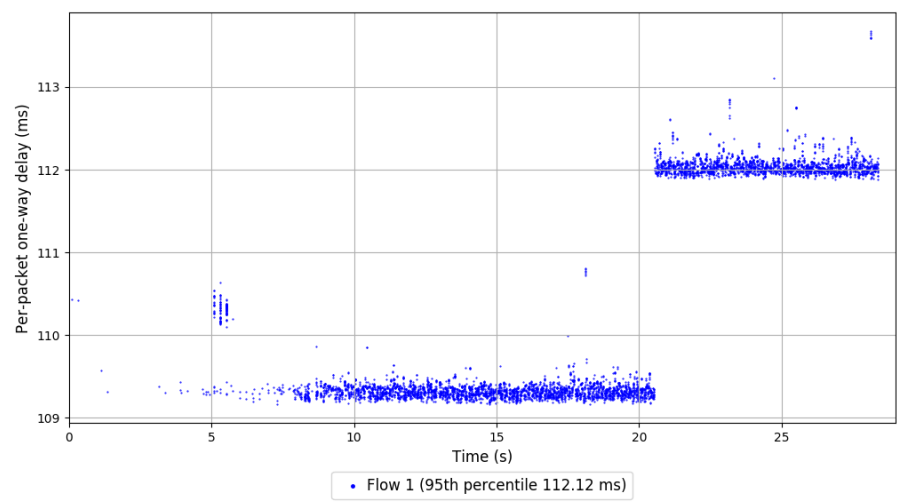
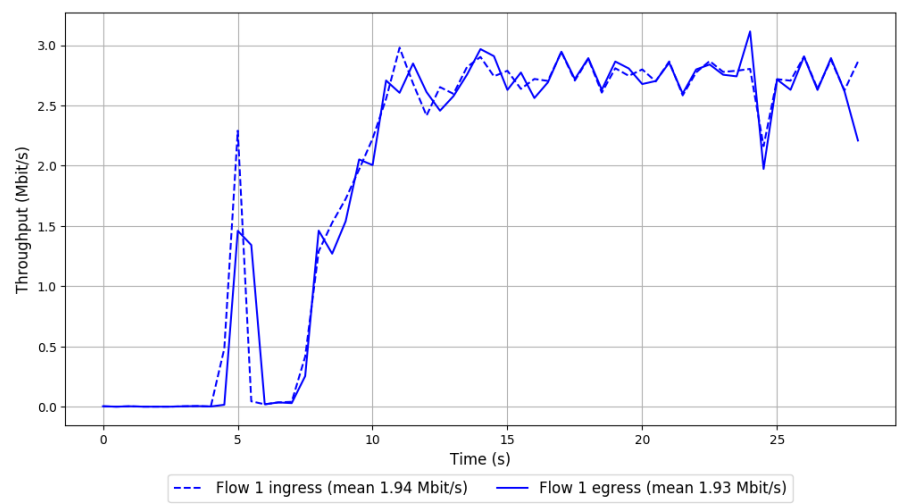
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 112.122 ms

Loss rate: 1.20%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-12-11 07:40:24

End at: 2017-12-11 07:40:54

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 110.262 ms

Loss rate: 0.93%

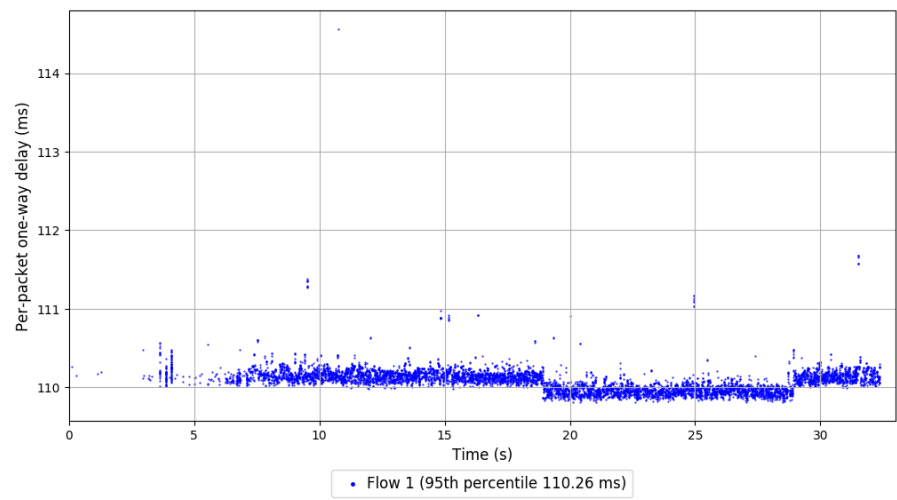
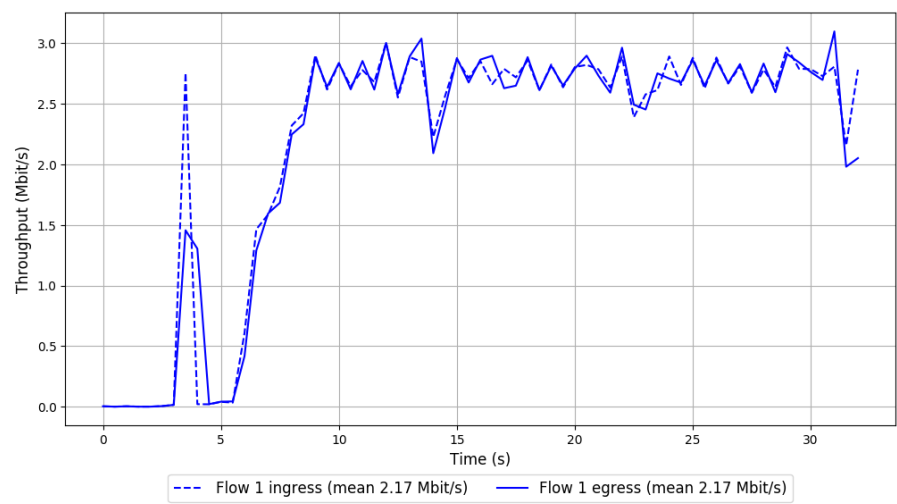
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 110.262 ms

Loss rate: 0.93%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-12-11 07:51:31

End at: 2017-12-11 07:52:01

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.697 ms

Loss rate: 0.78%

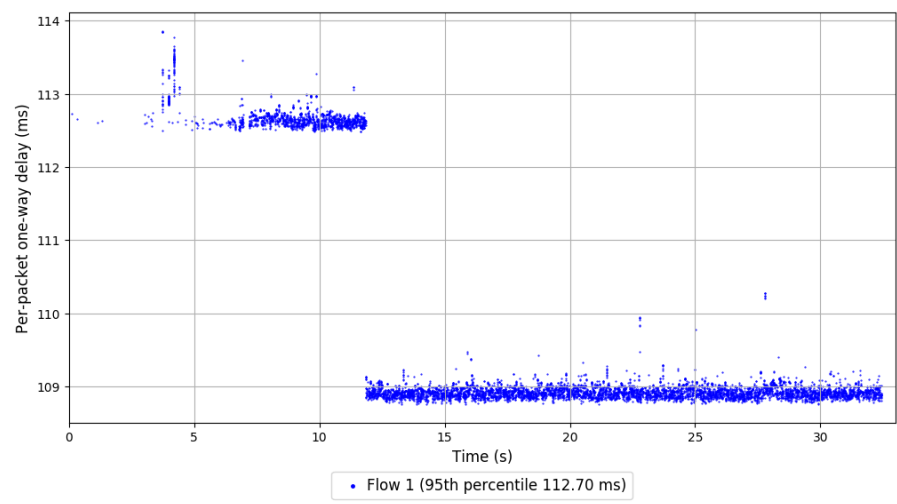
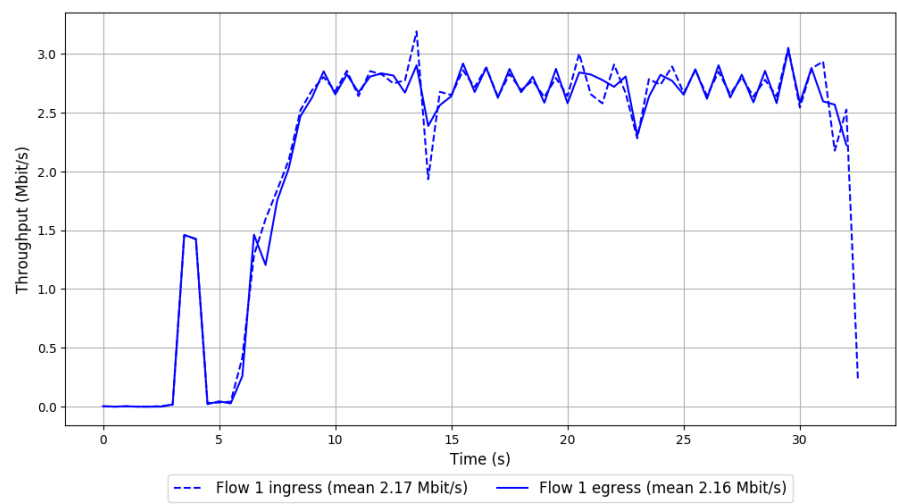
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.697 ms

Loss rate: 0.78%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2017-12-11 08:02:38

End at: 2017-12-11 08:03:08

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 109.301 ms

Loss rate: 0.91%

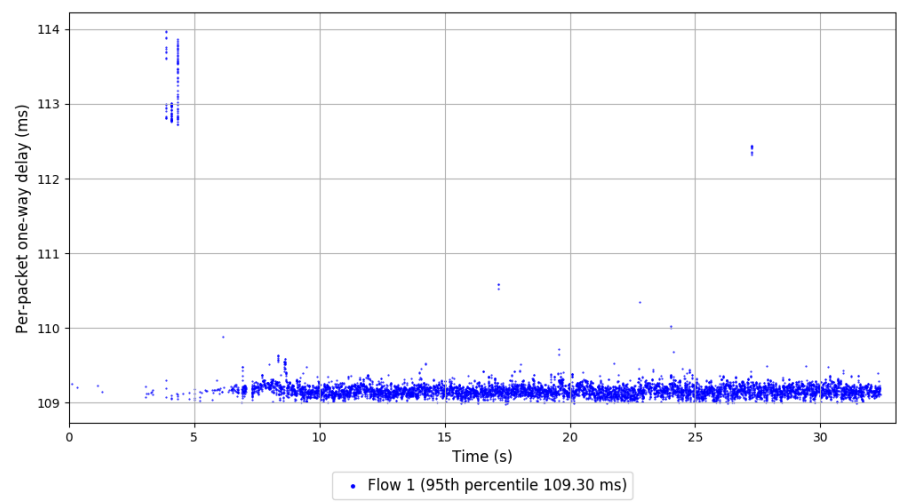
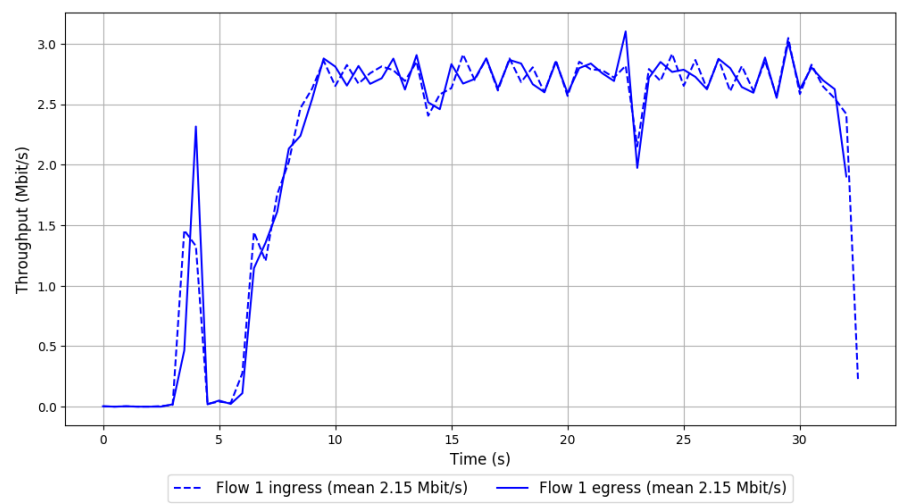
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 109.301 ms

Loss rate: 0.91%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-12-11 08:13:33

End at: 2017-12-11 08:14:03

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.835 ms

Loss rate: 0.85%

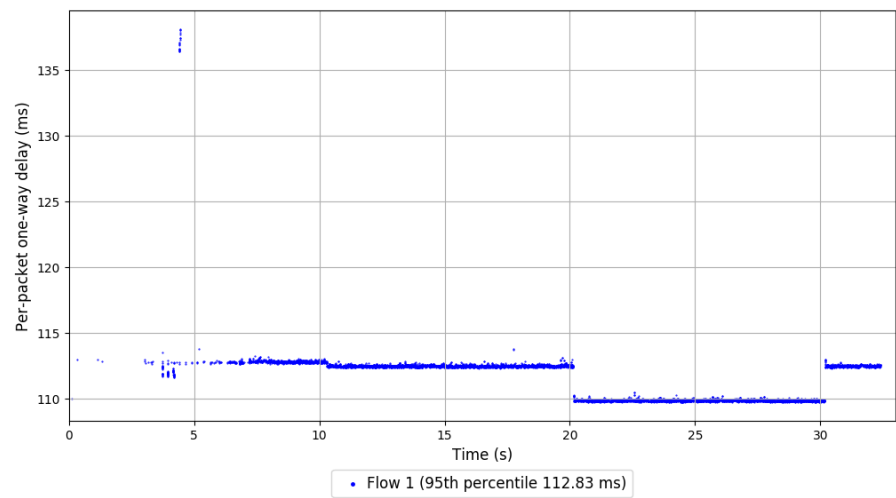
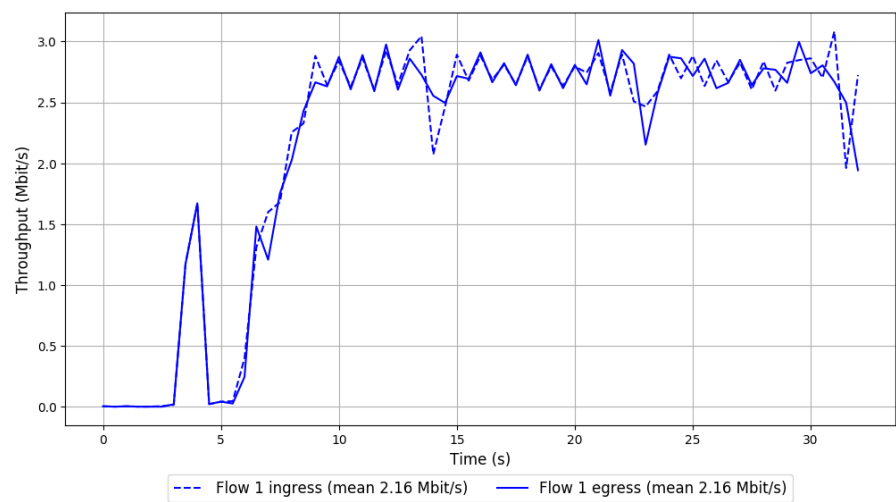
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.835 ms

Loss rate: 0.85%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2017-12-11 08:24:33

End at: 2017-12-11 08:25:03

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.502 ms

Loss rate: 0.91%

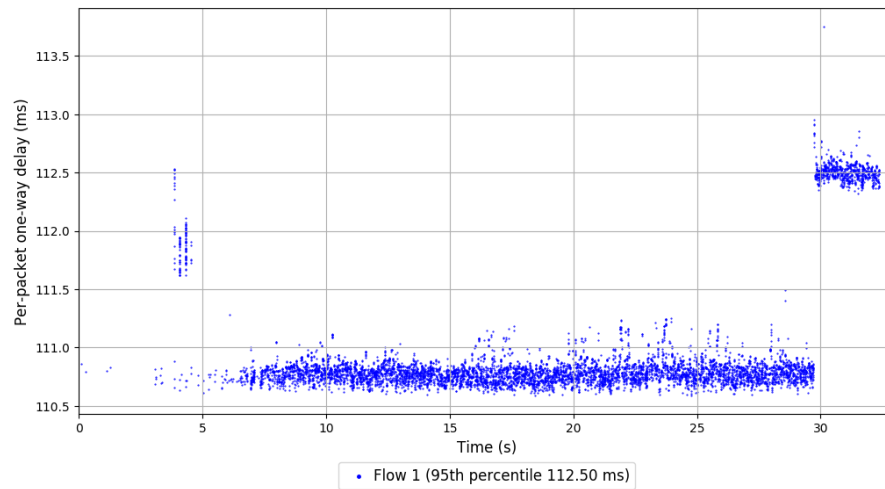
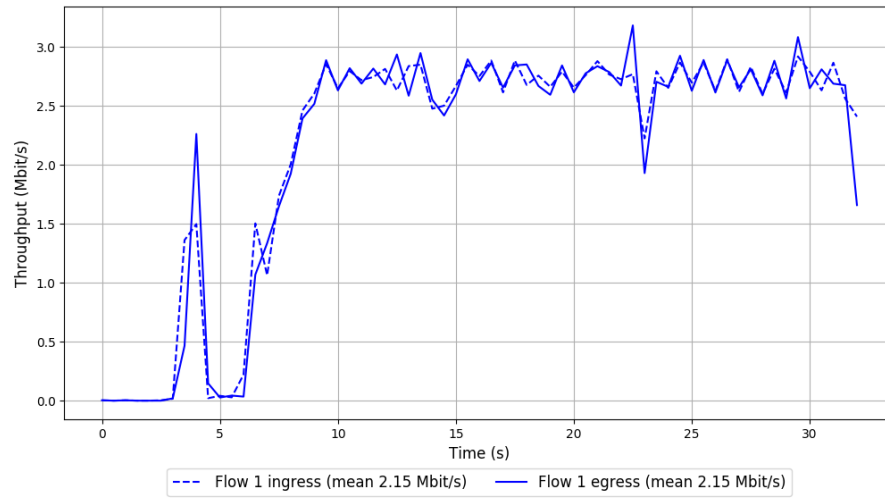
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.502 ms

Loss rate: 0.91%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-12-11 08:35:41

End at: 2017-12-11 08:36:11

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.710 ms

Loss rate: 0.77%

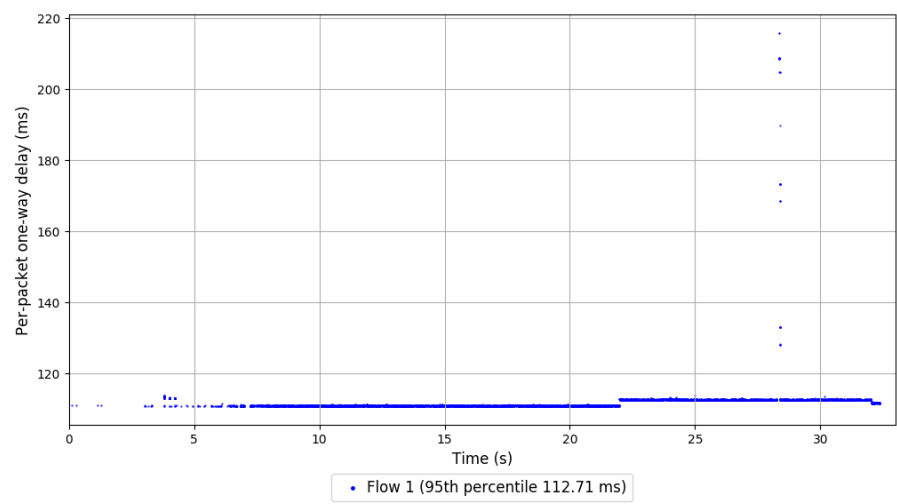
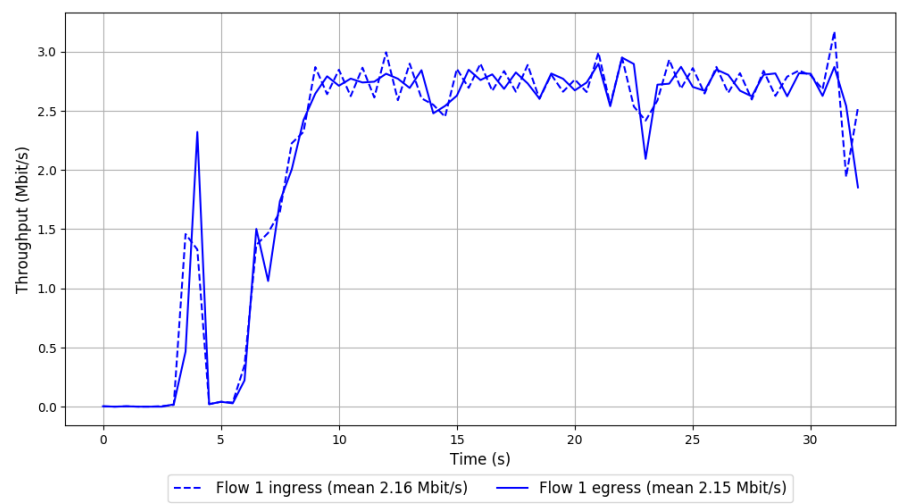
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 112.710 ms

Loss rate: 0.77%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2017-12-11 08:46:54

End at: 2017-12-11 08:47:24

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.069 ms

Loss rate: 0.94%

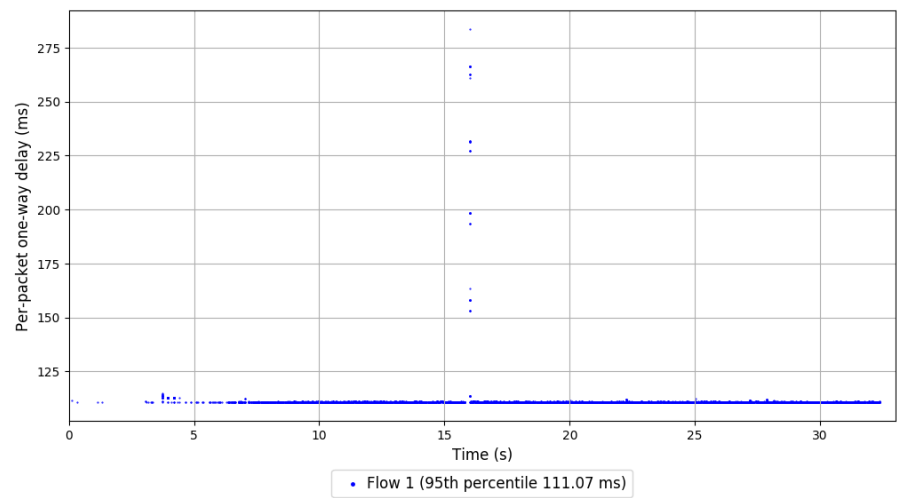
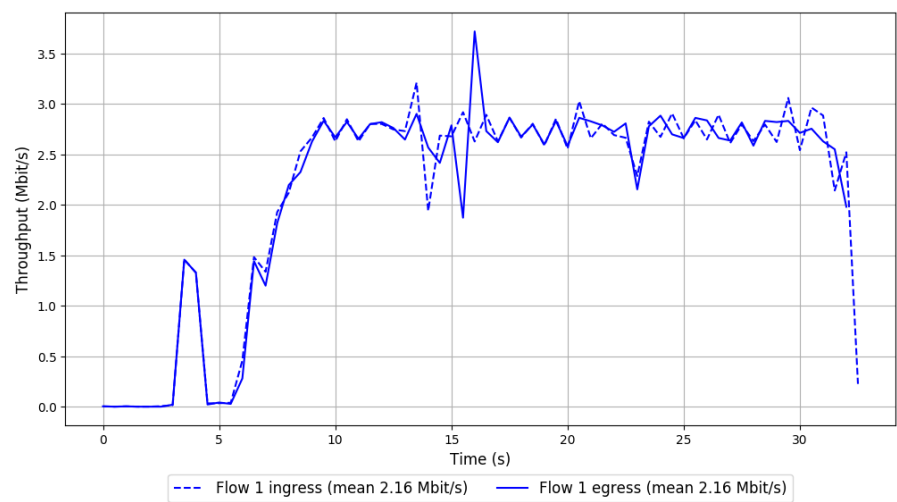
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 111.069 ms

Loss rate: 0.94%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2017-12-11 08:57:56

End at: 2017-12-11 08:58:26

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.389 ms

Loss rate: 0.94%

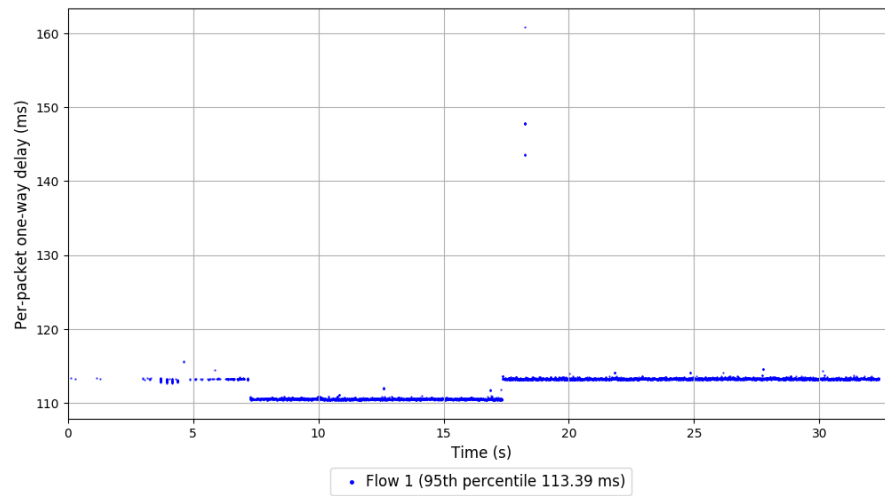
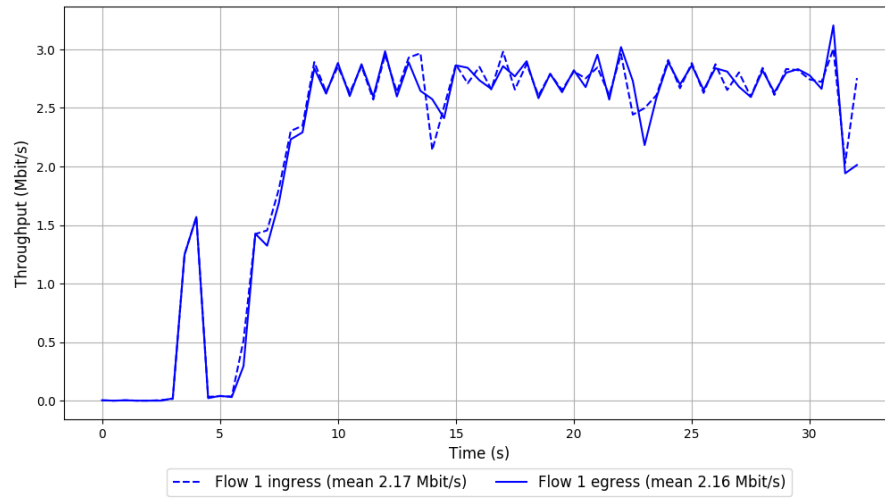
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.389 ms

Loss rate: 0.94%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-12-11 09:09:04

End at: 2017-12-11 09:09:34

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.906 ms

Loss rate: 0.94%

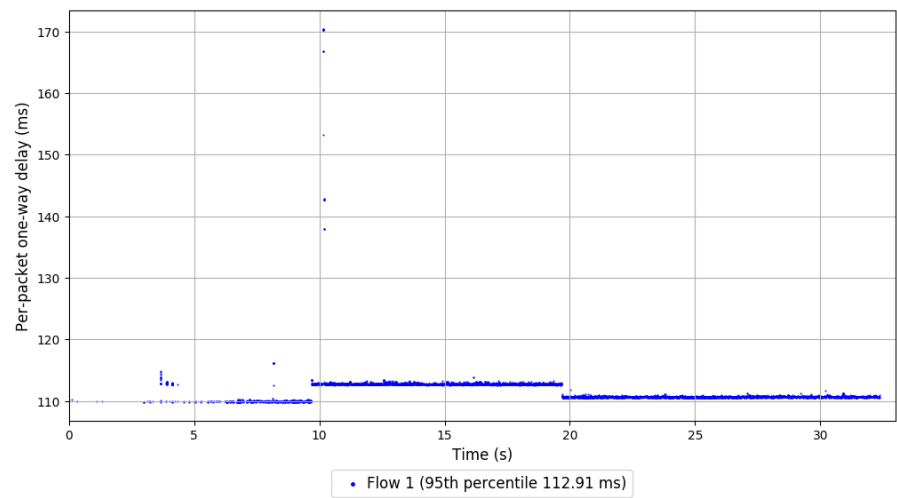
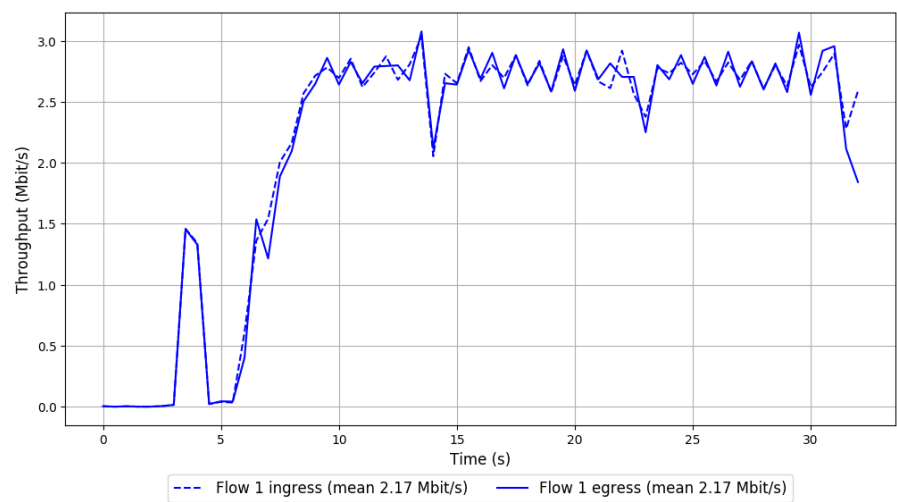
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.906 ms

Loss rate: 0.94%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-12-11 07:24:37

End at: 2017-12-11 07:25:07

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 112.762 ms

Loss rate: 1.77%

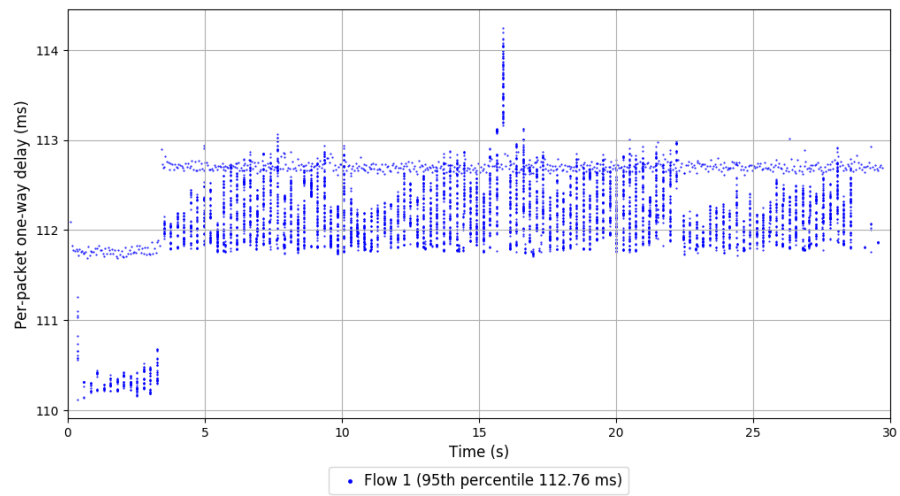
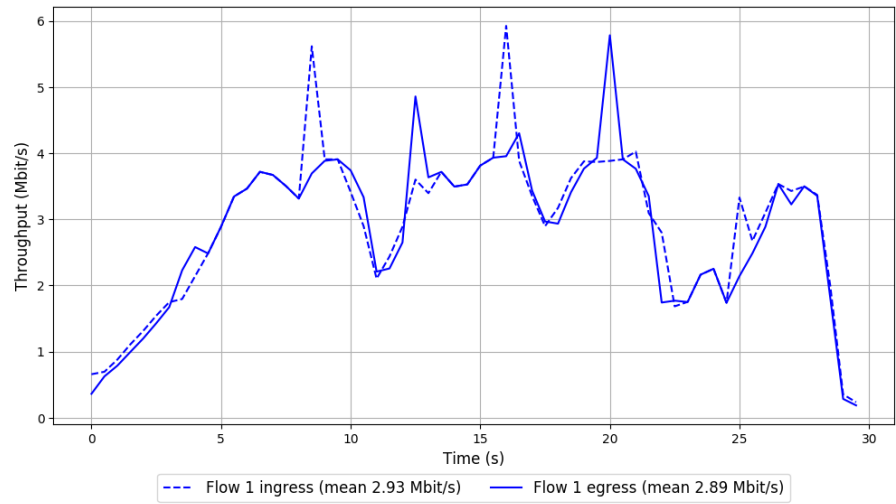
-- Flow 1:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 112.762 ms

Loss rate: 1.77%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-12-11 07:35:36

End at: 2017-12-11 07:36:07

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 112.608 ms

Loss rate: 0.66%

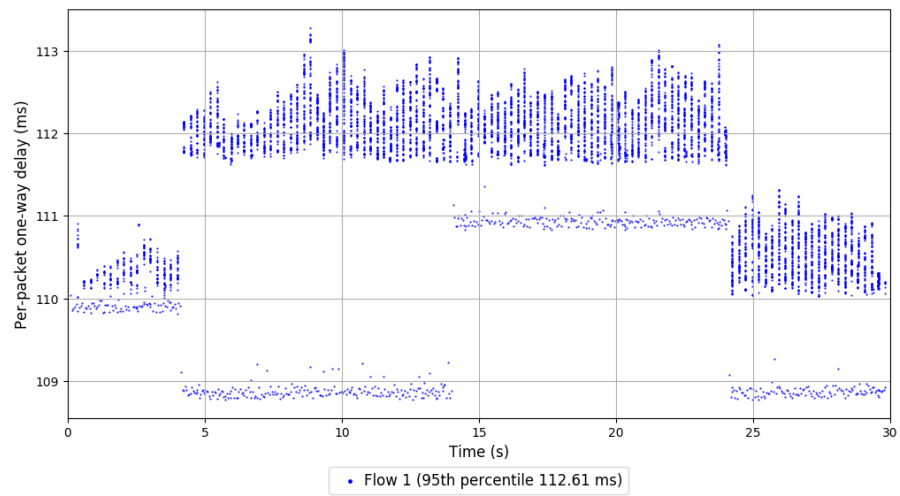
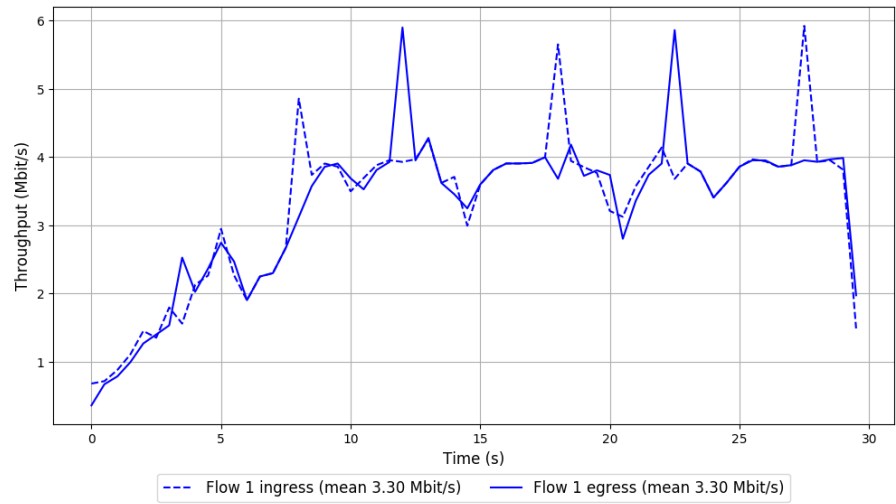
-- Flow 1:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 112.608 ms

Loss rate: 0.66%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2017-12-11 07:46:34

End at: 2017-12-11 07:47:04

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 113.264 ms

Loss rate: 0.74%

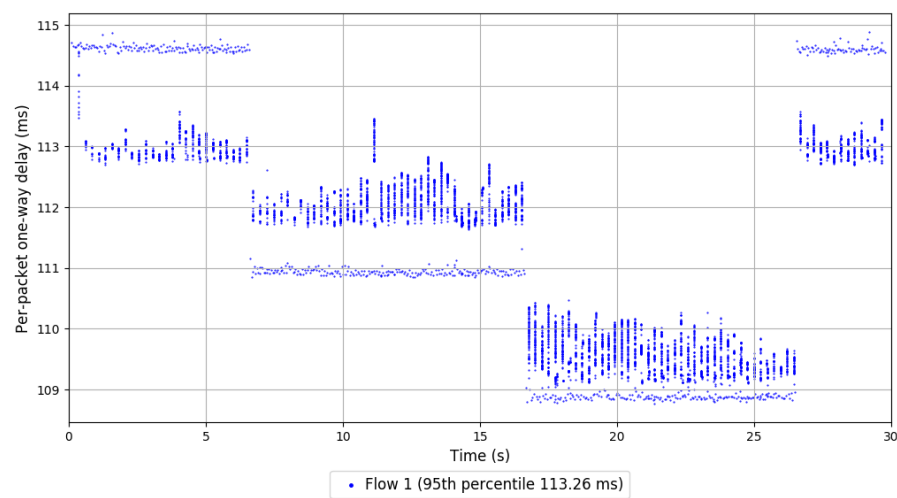
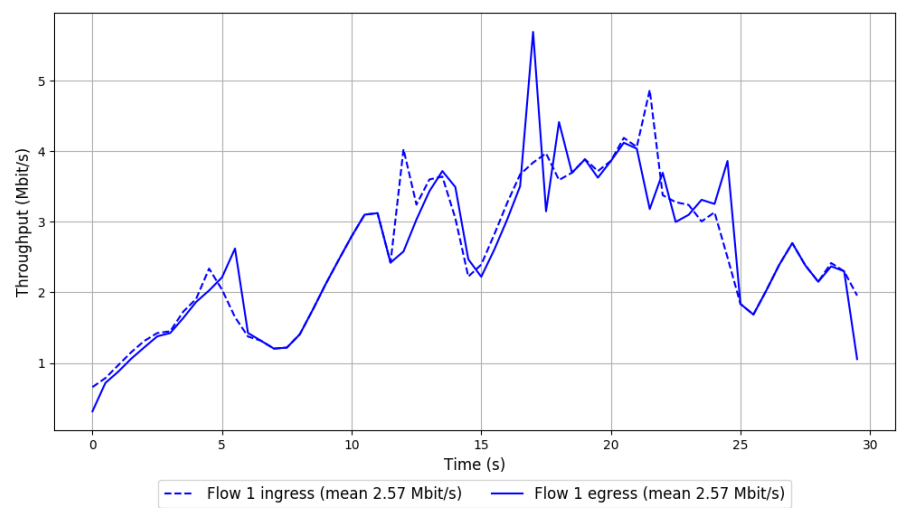
-- Flow 1:

Average throughput: 2.57 Mbit/s

95th percentile per-packet one-way delay: 113.264 ms

Loss rate: 0.74%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-12-11 07:57:46

End at: 2017-12-11 07:58:16

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 113.404 ms

Loss rate: 1.13%

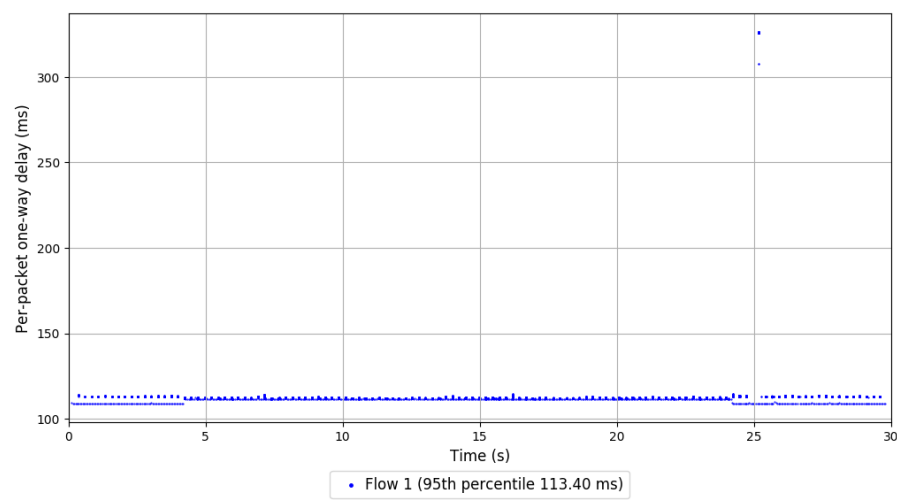
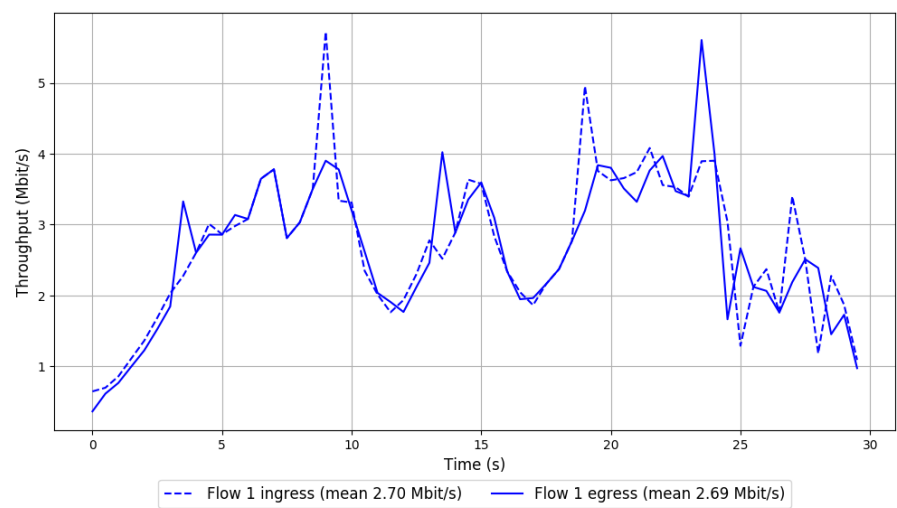
-- Flow 1:

Average throughput: 2.69 Mbit/s

95th percentile per-packet one-way delay: 113.404 ms

Loss rate: 1.13%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2017-12-11 08:08:46

End at: 2017-12-11 08:09:16

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 113.305 ms

Loss rate: 1.07%

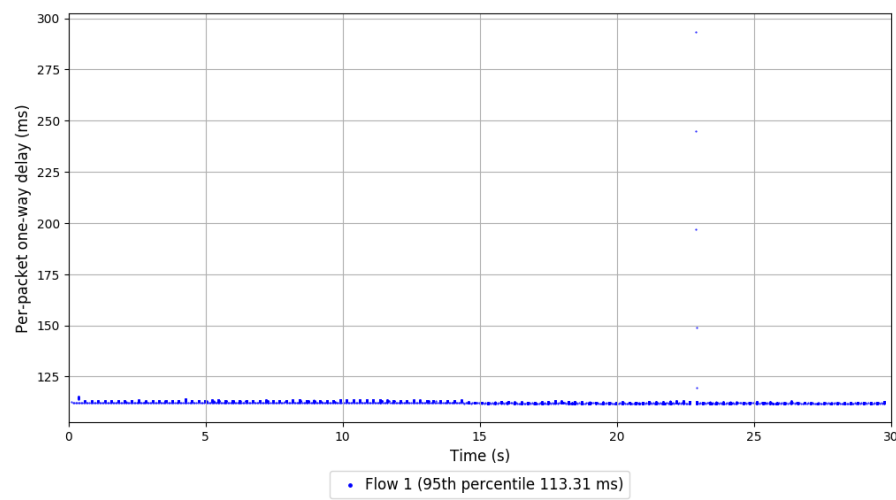
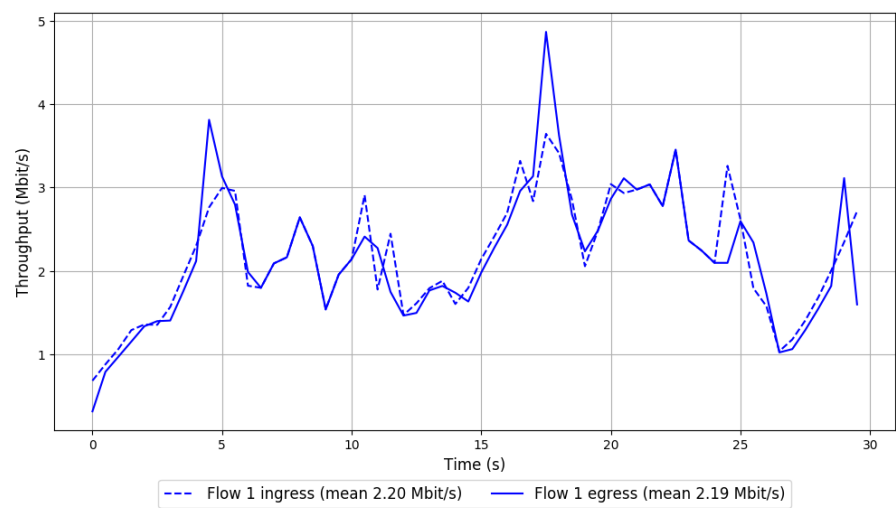
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 113.305 ms

Loss rate: 1.07%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-12-11 08:19:39

End at: 2017-12-11 08:20:09

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 113.952 ms

Loss rate: 2.57%

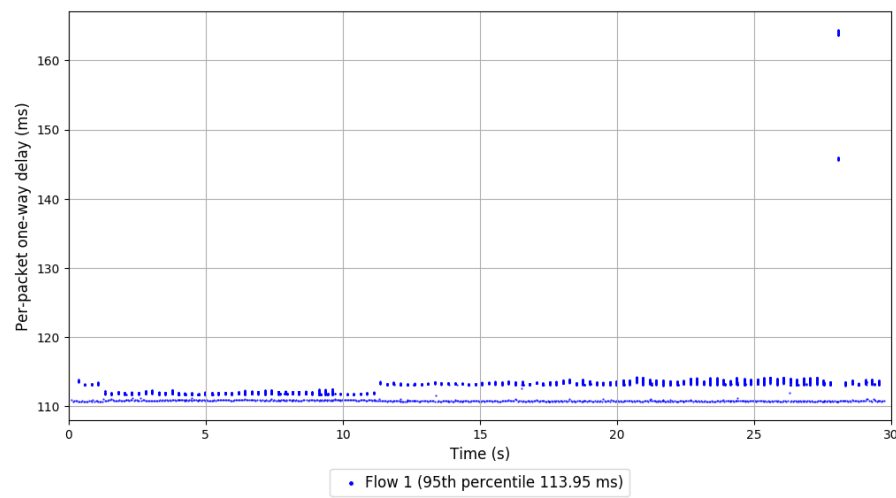
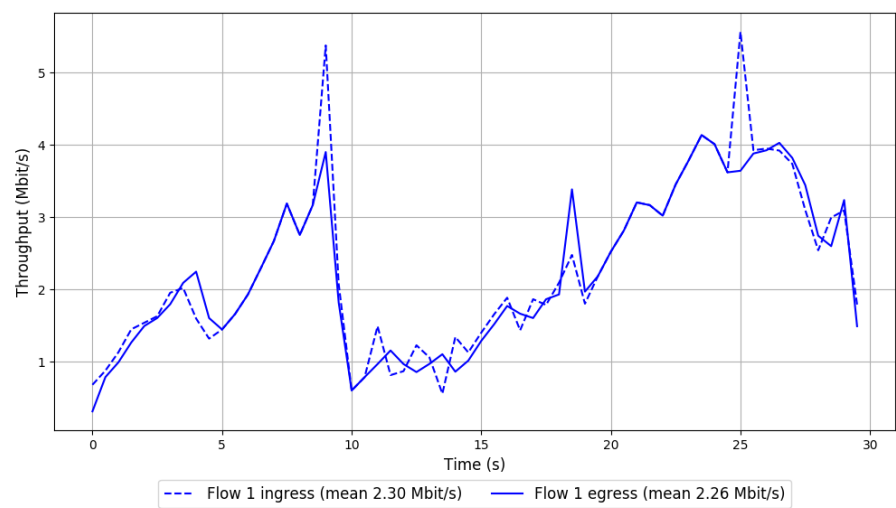
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 113.952 ms

Loss rate: 2.57%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-12-11 08:30:51

End at: 2017-12-11 08:31:21

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 113.475 ms

Loss rate: 2.51%

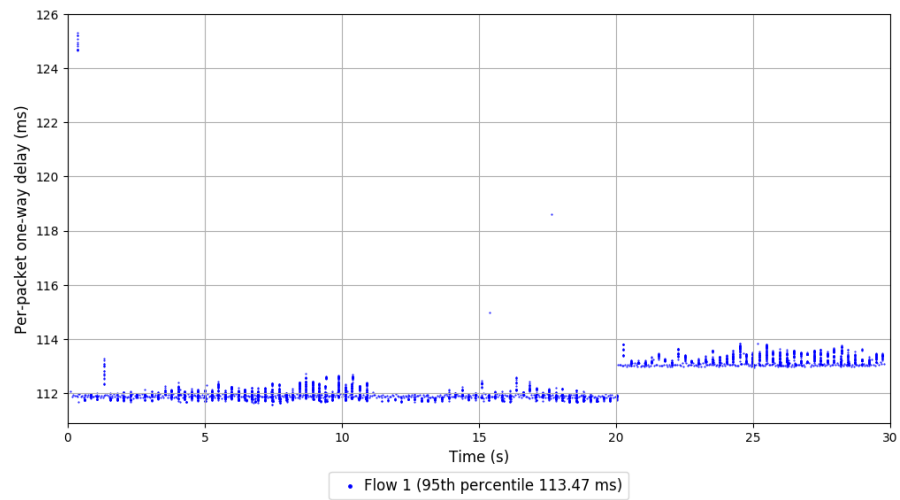
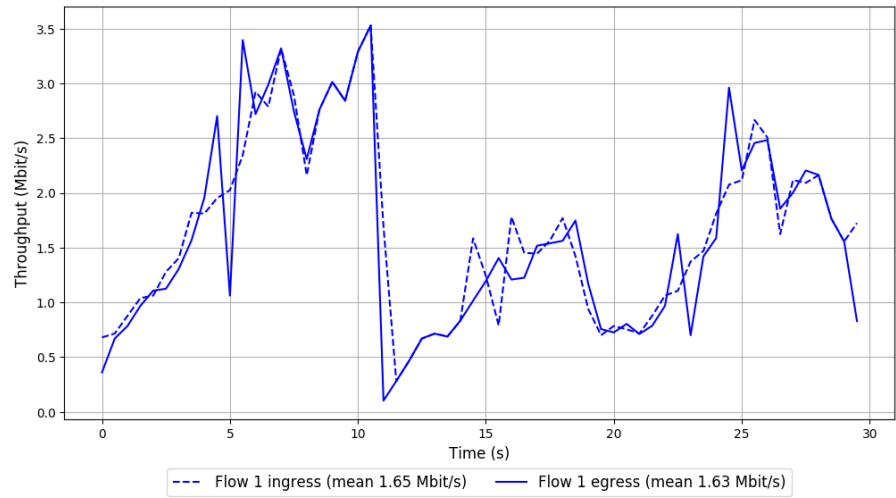
-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 113.475 ms

Loss rate: 2.51%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-12-11 08:41:55

End at: 2017-12-11 08:42:25

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 113.510 ms

Loss rate: 1.51%

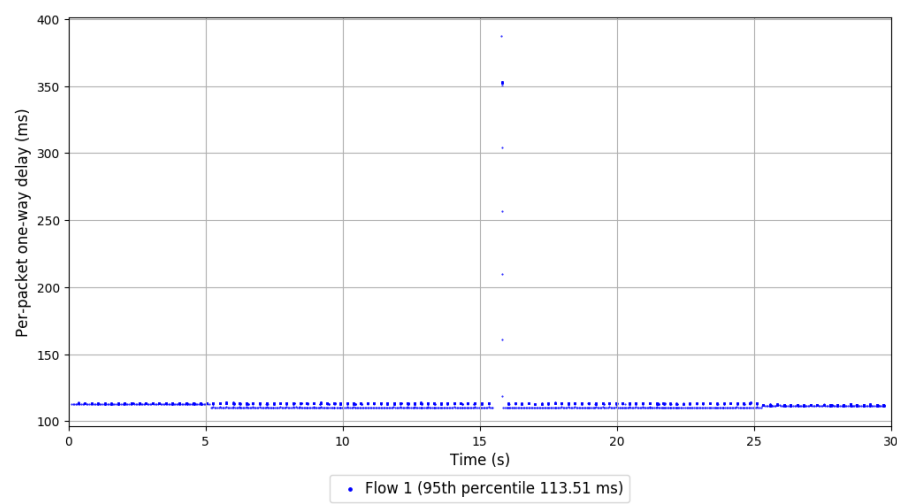
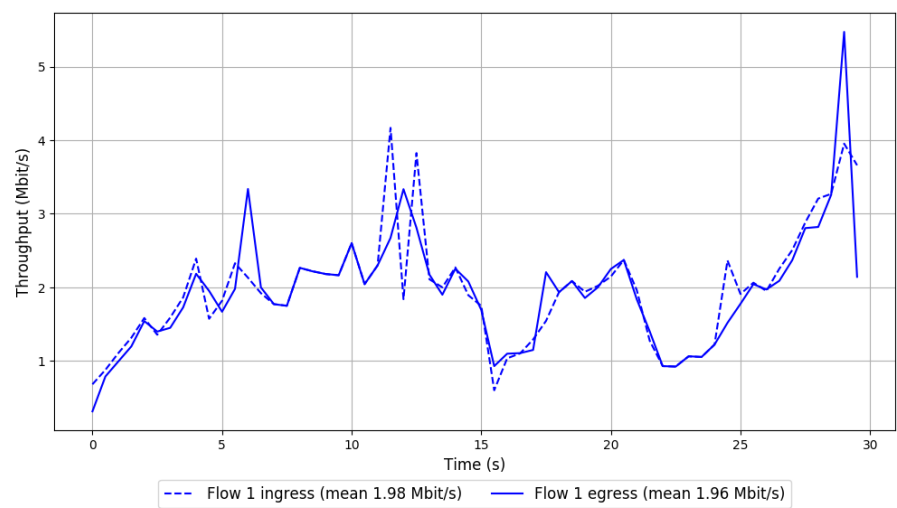
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 113.510 ms

Loss rate: 1.51%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-12-11 08:53:10

End at: 2017-12-11 08:53:40

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 113.632 ms

Loss rate: 0.88%

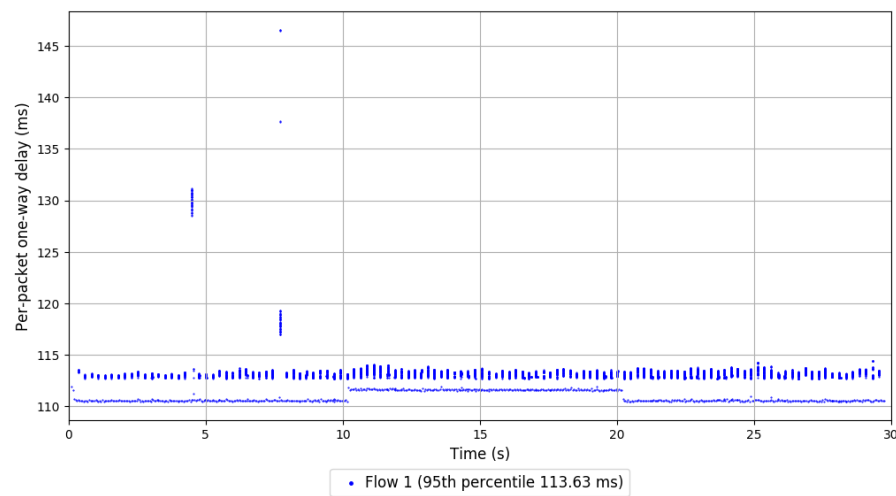
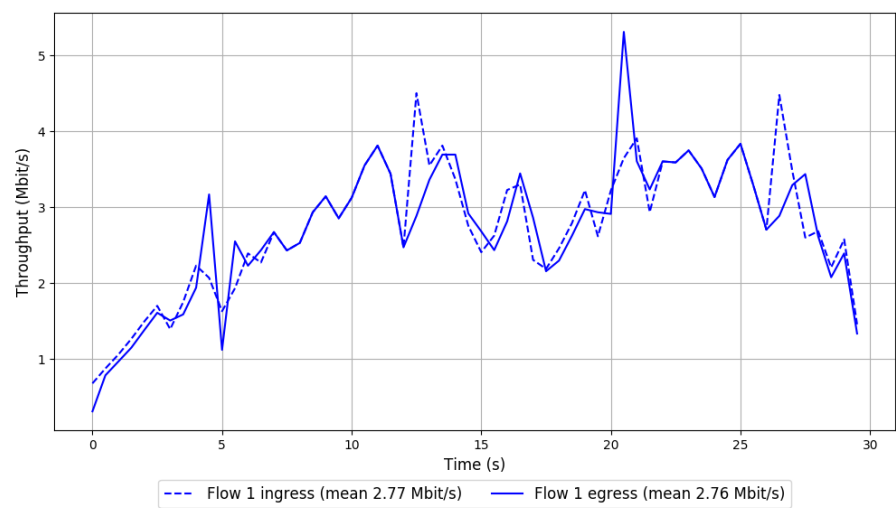
-- Flow 1:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 113.632 ms

Loss rate: 0.88%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-12-11 09:04:12

End at: 2017-12-11 09:04:42

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.623 ms

Loss rate: 0.98%

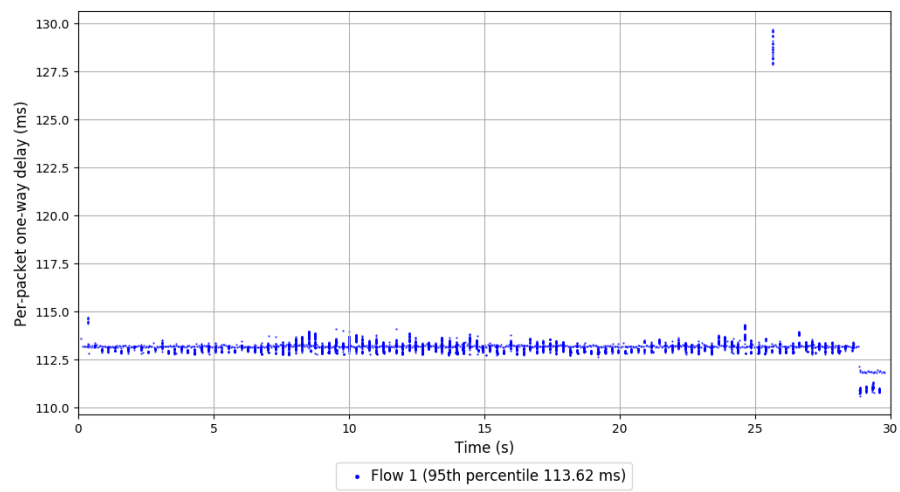
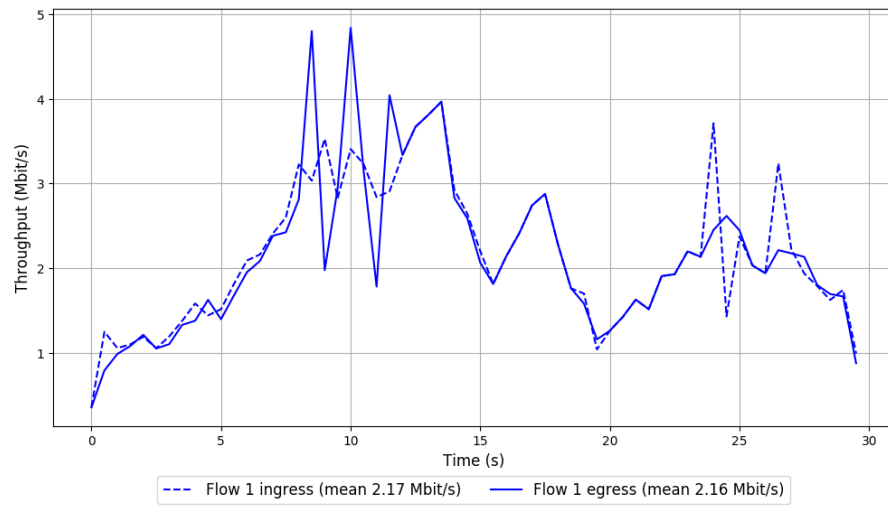
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.623 ms

Loss rate: 0.98%

Run 10: Report of Sprout — Data Link

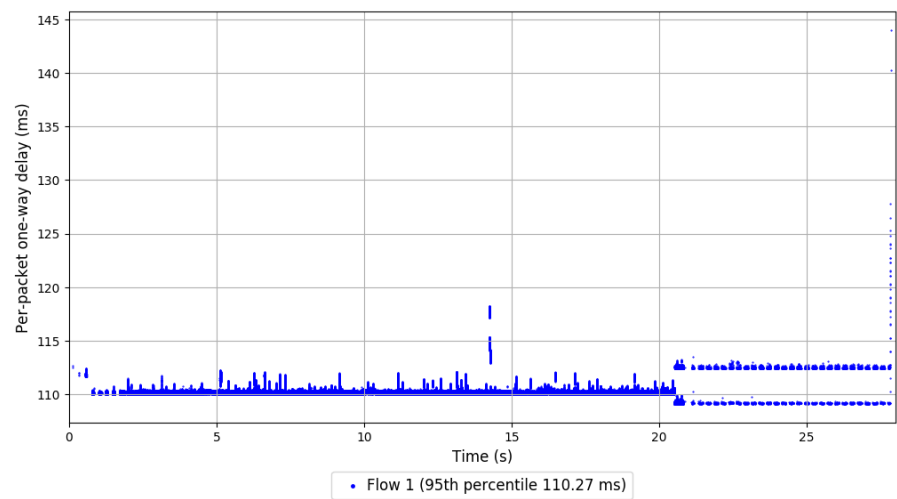
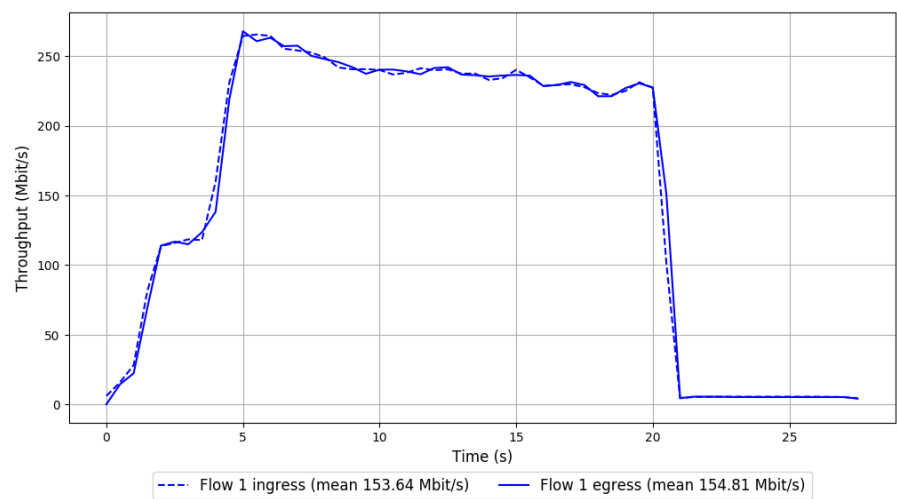


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-12-11 07:25:18
End at: 2017-12-11 07:25:48

# Below is generated by plot.py at 2017-12-11 11:25:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.81 Mbit/s
95th percentile per-packet one-way delay: 110.273 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 154.81 Mbit/s
95th percentile per-packet one-way delay: 110.273 ms
Loss rate: 0.03%
```

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

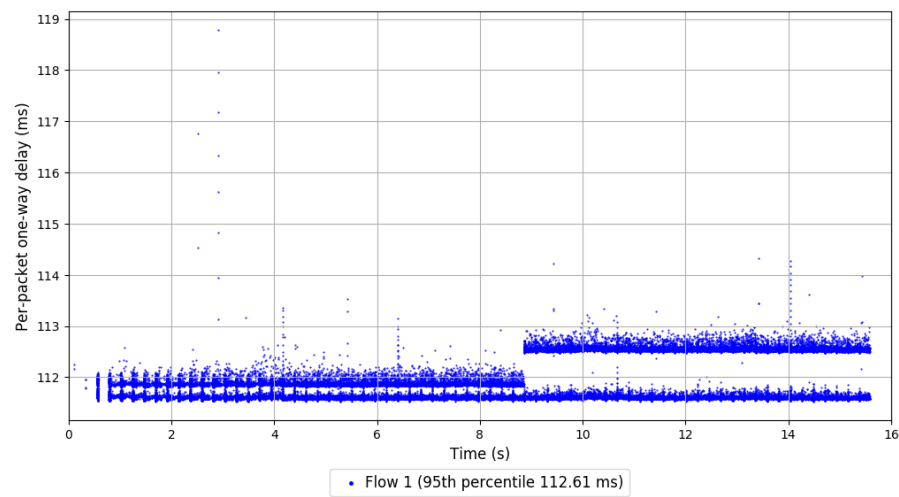
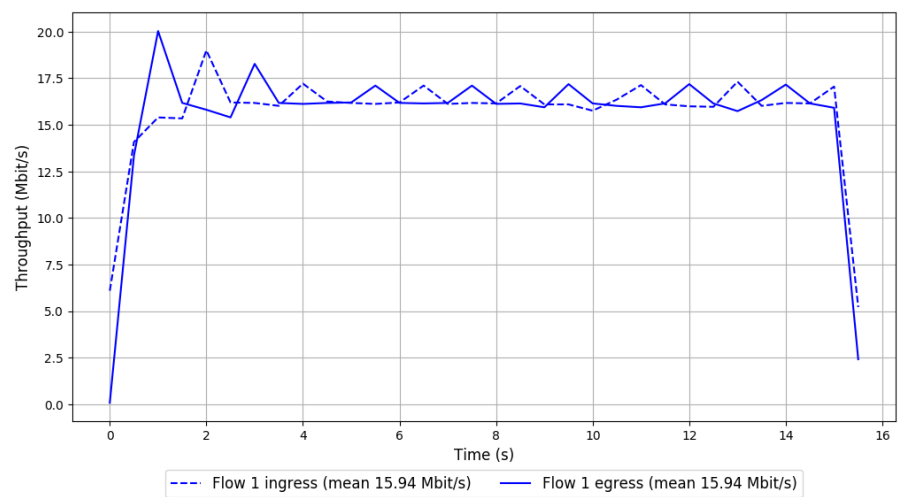


Run 2: Statistics of TaoVA-100x

Start at: 2017-12-11 07:36:17

End at: 2017-12-11 07:36:48

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-12-11 07:47:15

End at: 2017-12-11 07:47:45

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.25 Mbit/s

95th percentile per-packet one-way delay: 113.951 ms

Loss rate: 0.07%

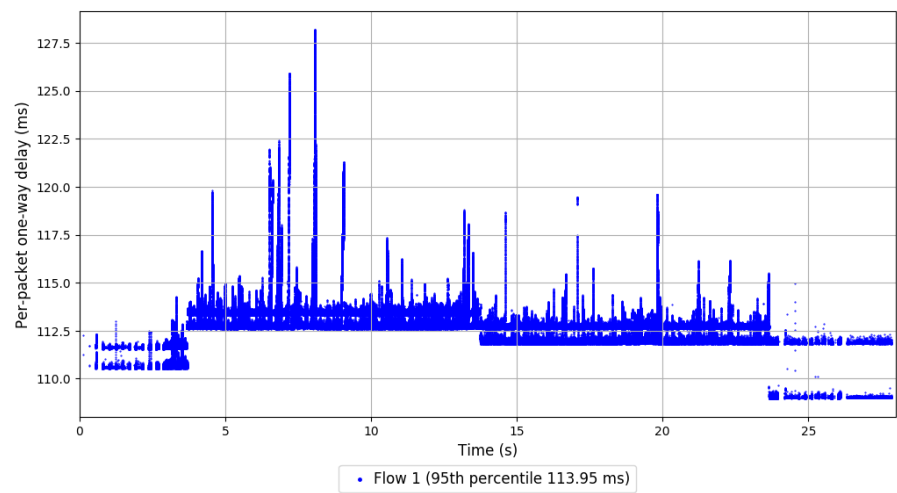
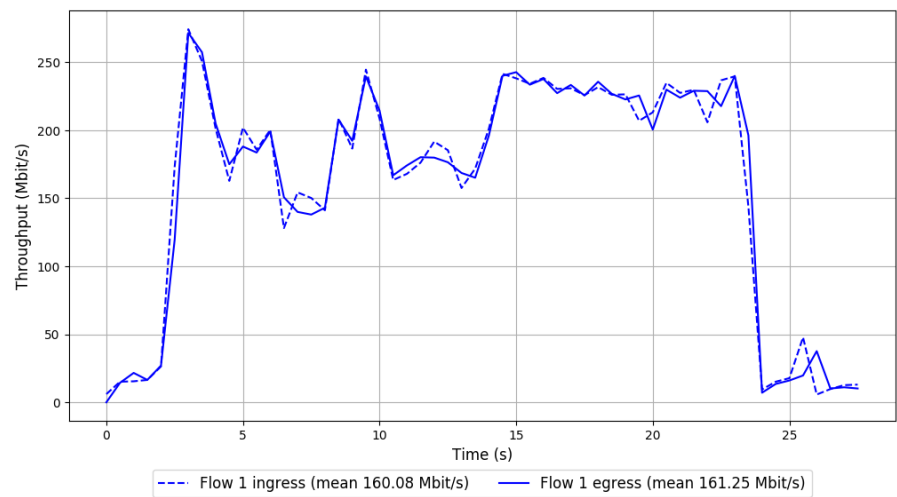
-- Flow 1:

Average throughput: 161.25 Mbit/s

95th percentile per-packet one-way delay: 113.951 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-12-11 07:58:27

End at: 2017-12-11 07:58:57

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.05 Mbit/s

95th percentile per-packet one-way delay: 113.062 ms

Loss rate: 0.15%

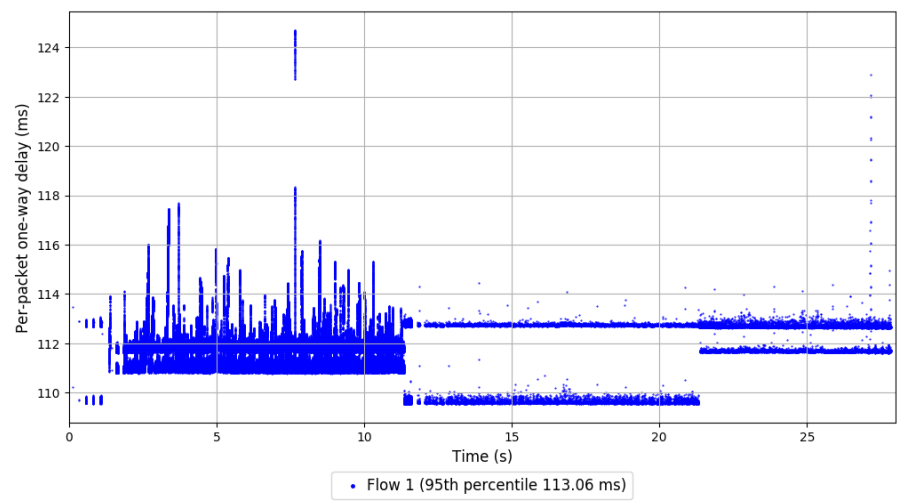
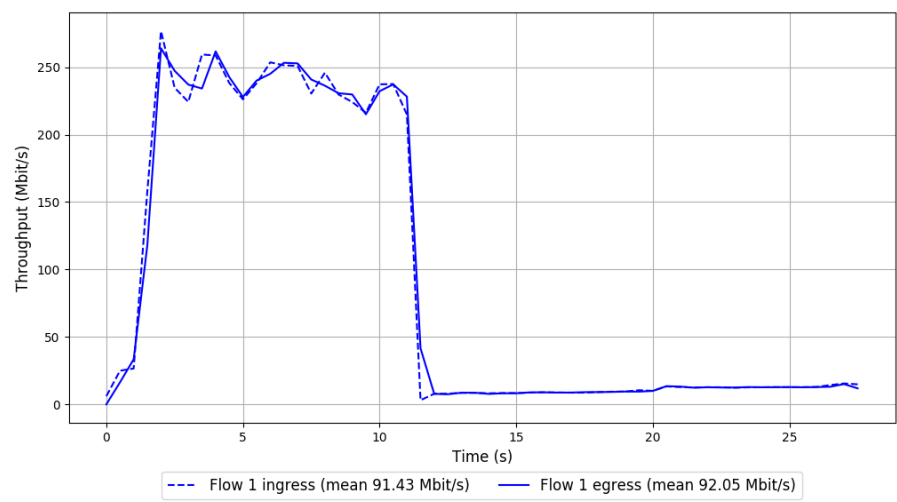
-- Flow 1:

Average throughput: 92.05 Mbit/s

95th percentile per-packet one-way delay: 113.062 ms

Loss rate: 0.15%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-12-11 08:09:27

End at: 2017-12-11 08:09:57

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.89 Mbit/s

95th percentile per-packet one-way delay: 112.815 ms

Loss rate: 0.73%

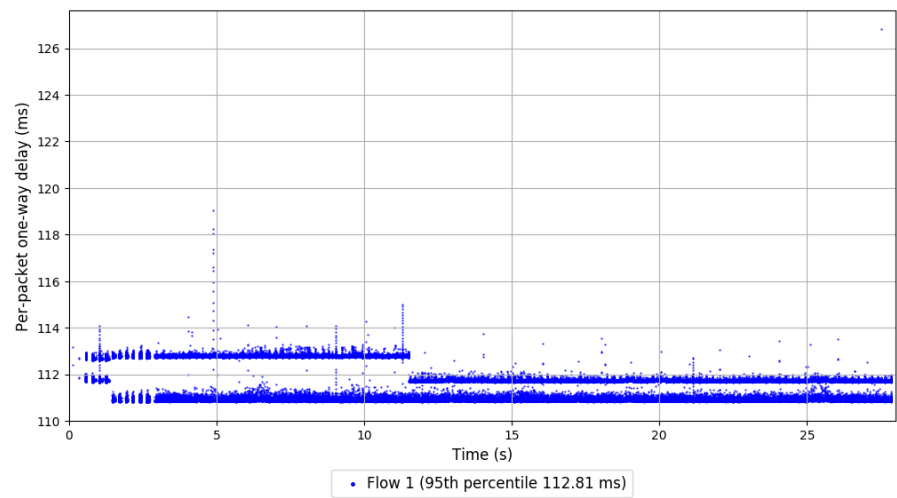
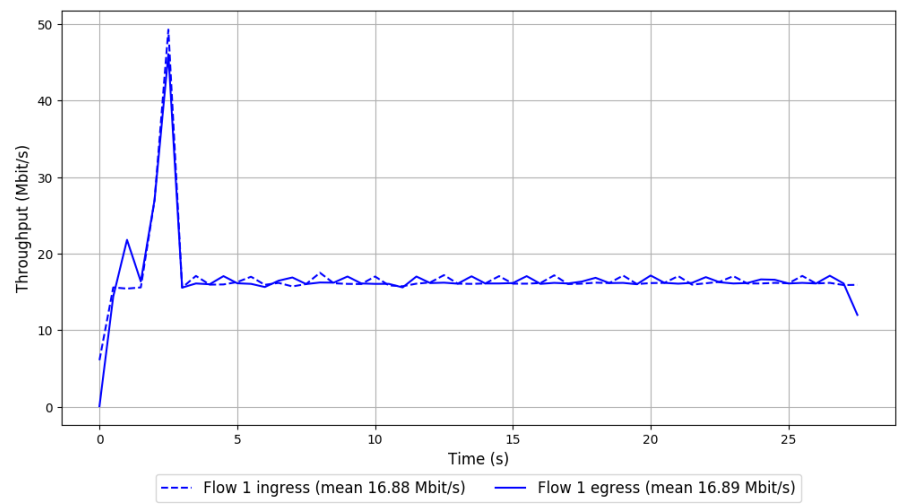
-- Flow 1:

Average throughput: 16.89 Mbit/s

95th percentile per-packet one-way delay: 112.815 ms

Loss rate: 0.73%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-12-11 08:20:20

End at: 2017-12-11 08:20:50

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.71 Mbit/s

95th percentile per-packet one-way delay: 113.012 ms

Loss rate: 0.05%

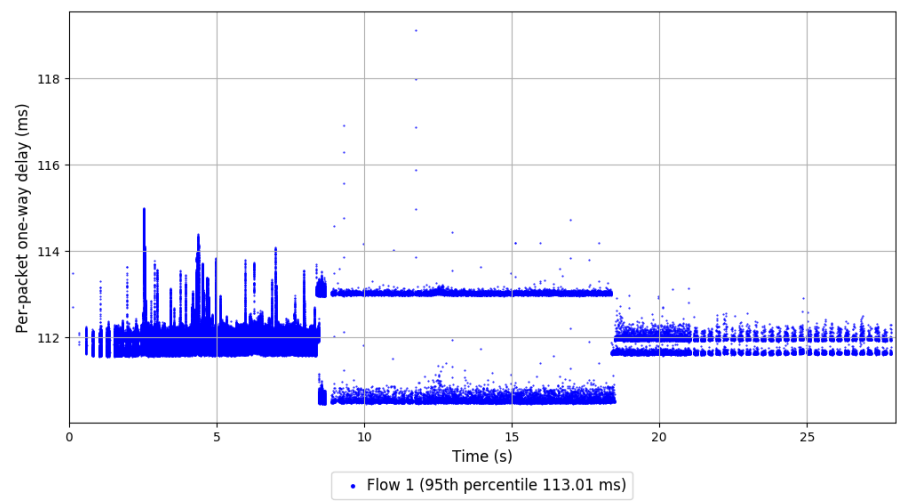
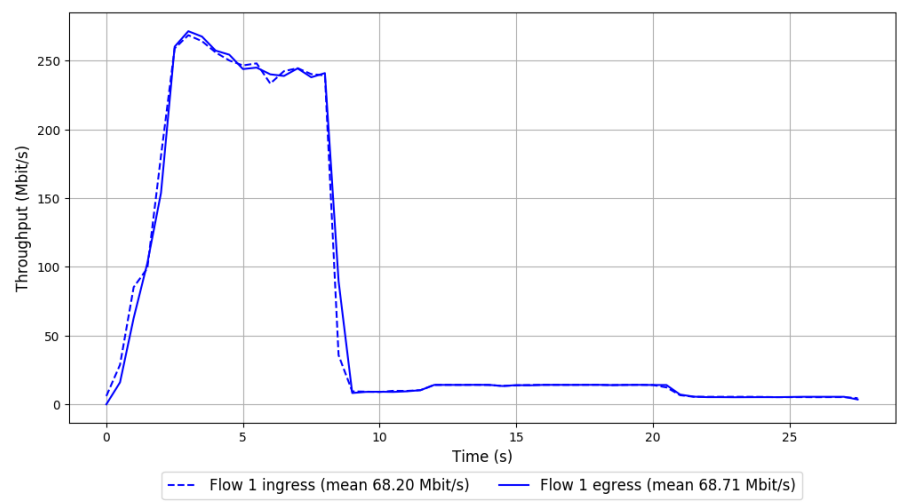
-- Flow 1:

Average throughput: 68.71 Mbit/s

95th percentile per-packet one-way delay: 113.012 ms

Loss rate: 0.05%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-12-11 08:31:31

End at: 2017-12-11 08:32:01

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.14 Mbit/s

95th percentile per-packet one-way delay: 113.092 ms

Loss rate: 1.64%

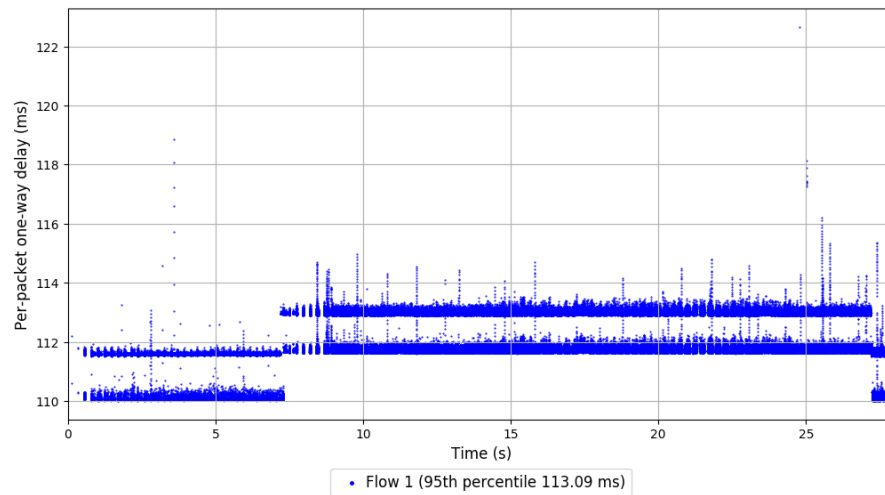
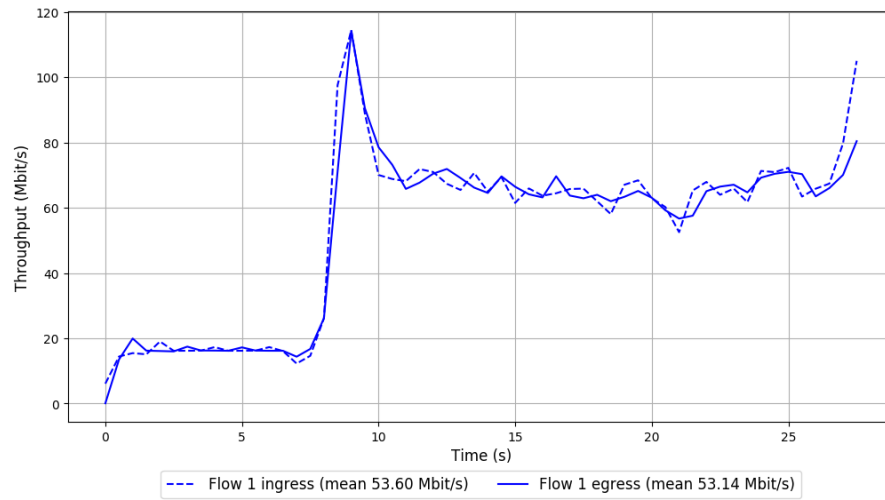
-- Flow 1:

Average throughput: 53.14 Mbit/s

95th percentile per-packet one-way delay: 113.092 ms

Loss rate: 1.64%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-12-11 08:42:36

End at: 2017-12-11 08:43:06

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.69 Mbit/s

95th percentile per-packet one-way delay: 113.925 ms

Loss rate: 0.50%

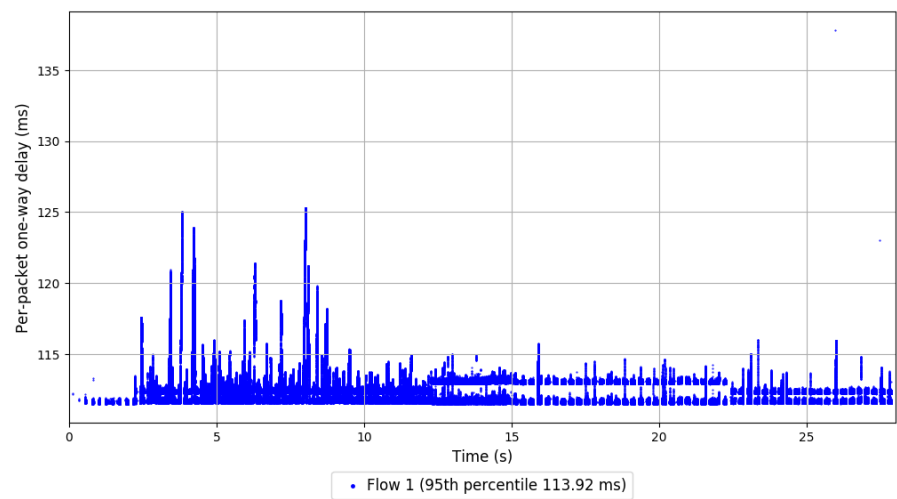
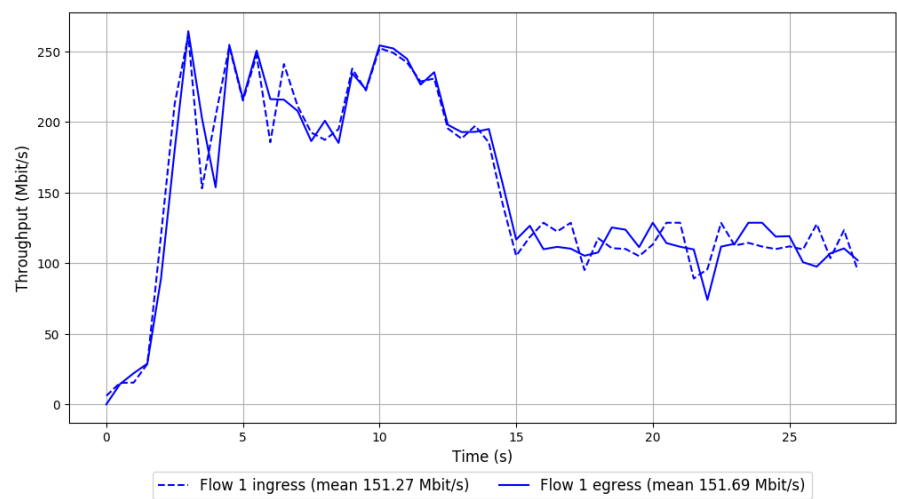
-- Flow 1:

Average throughput: 151.69 Mbit/s

95th percentile per-packet one-way delay: 113.925 ms

Loss rate: 0.50%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-12-11 08:53:51

End at: 2017-12-11 08:54:21

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 112.750 ms

Loss rate: 0.89%

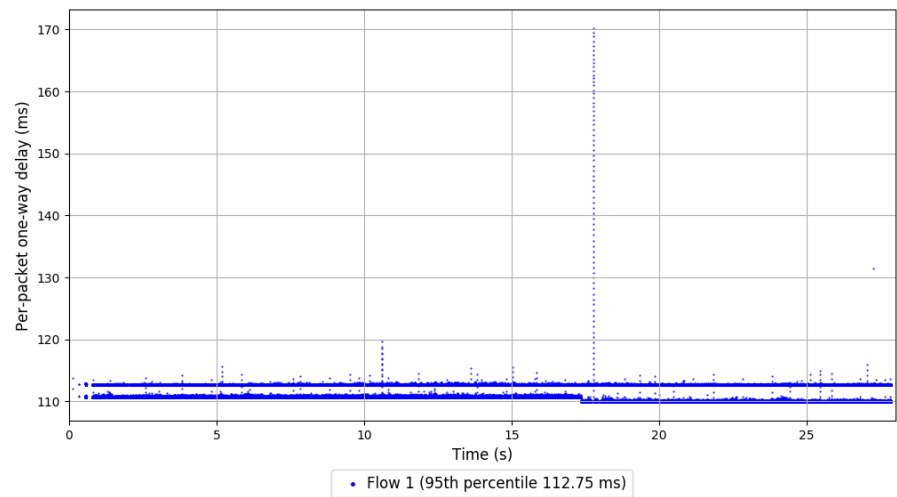
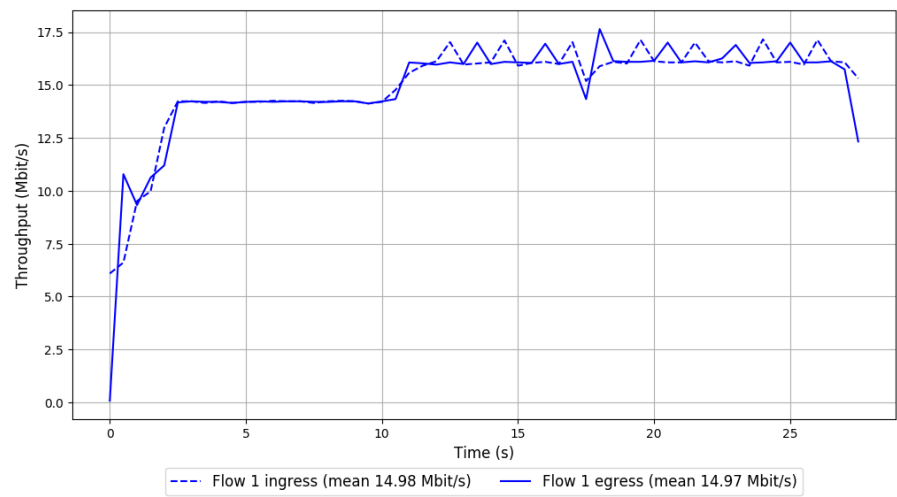
-- Flow 1:

Average throughput: 14.97 Mbit/s

95th percentile per-packet one-way delay: 112.750 ms

Loss rate: 0.89%

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

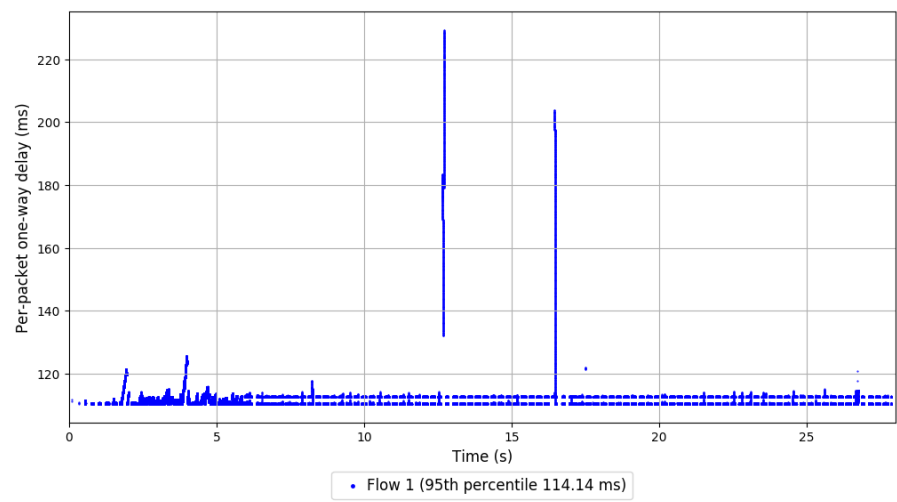
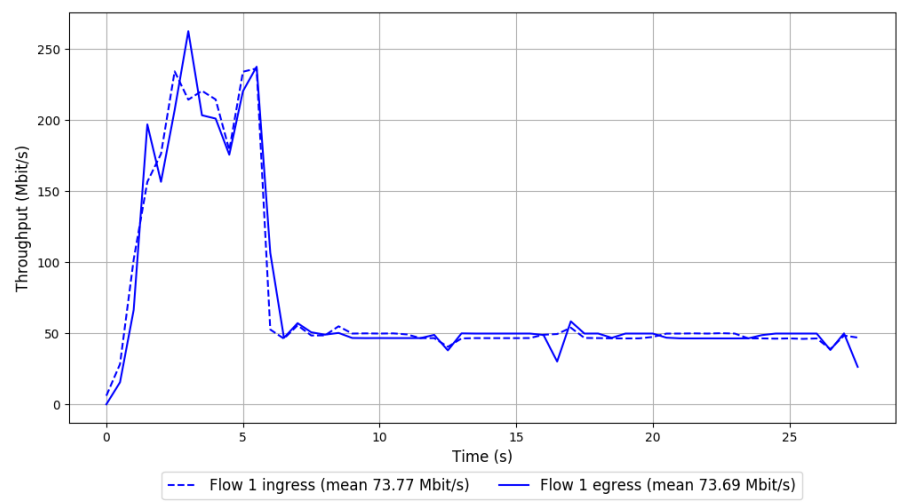


```
Run 10: Statistics of TaoVA-100x

Start at: 2017-12-11 09:04:53
End at: 2017-12-11 09:05:23

# Below is generated by plot.py at 2017-12-11 11:25:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.69 Mbit/s
95th percentile per-packet one-way delay: 114.142 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 73.69 Mbit/s
95th percentile per-packet one-way delay: 114.142 ms
Loss rate: 0.57%
```

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

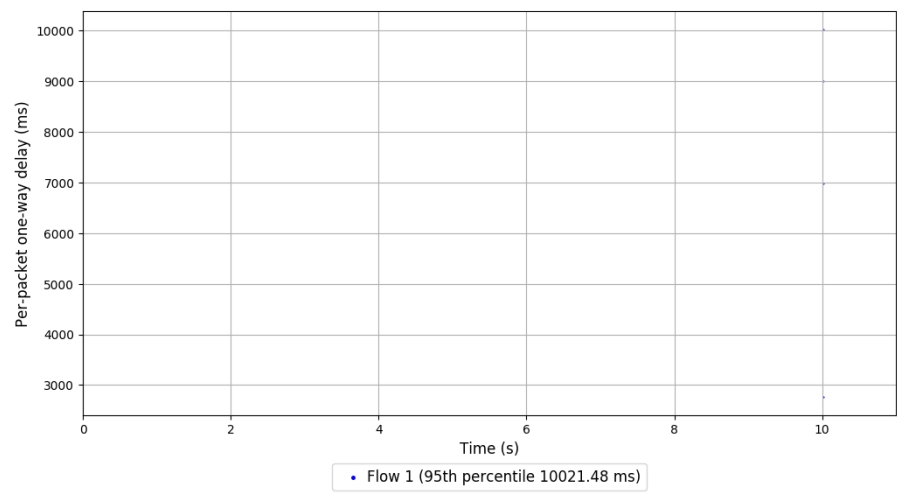
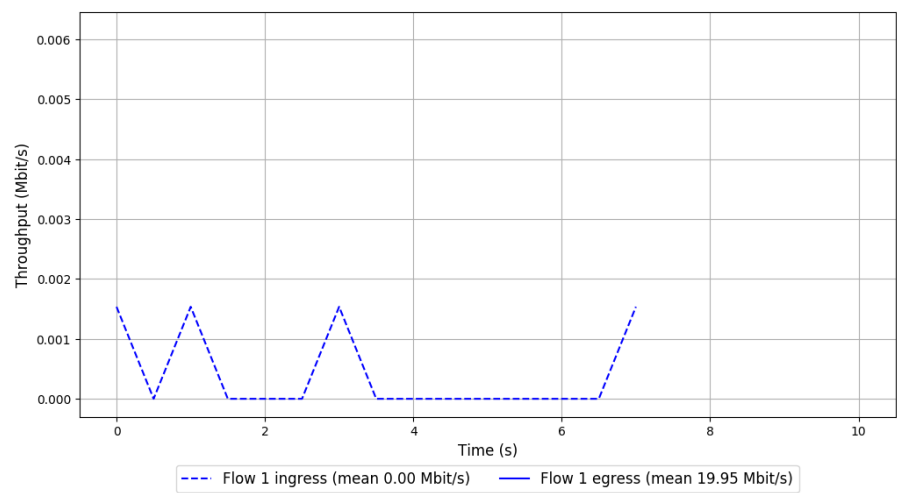


Run 1: Statistics of TCP Vegas

Start at: 2017-12-11 07:26:14

End at: 2017-12-11 07:26:44

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-12-11 07:37:00

End at: 2017-12-11 07:37:30

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.67 Mbit/s

95th percentile per-packet one-way delay: 112.756 ms

Loss rate: 1.14%

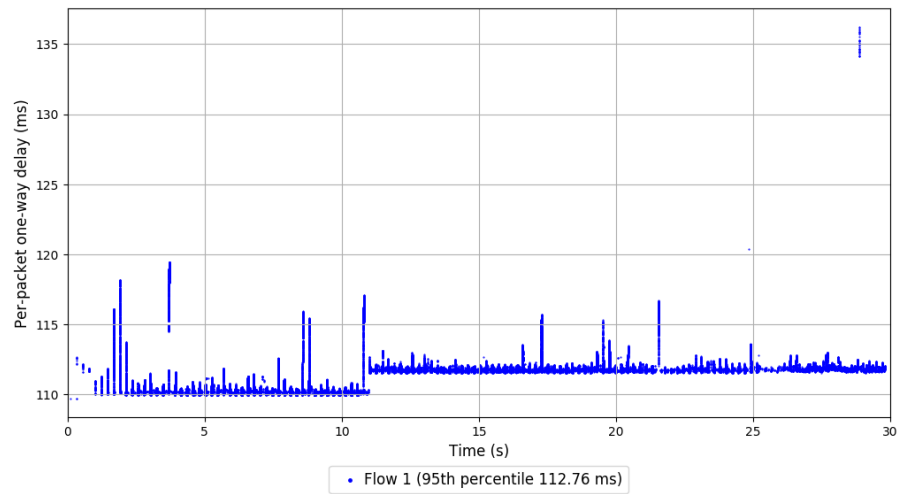
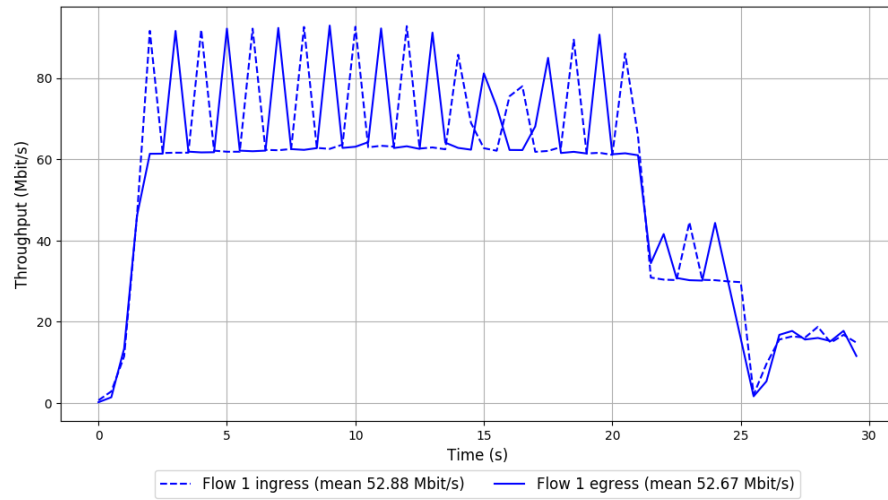
-- Flow 1:

Average throughput: 52.67 Mbit/s

95th percentile per-packet one-way delay: 112.756 ms

Loss rate: 1.14%

Run 2: Report of TCP Vegas — Data Link

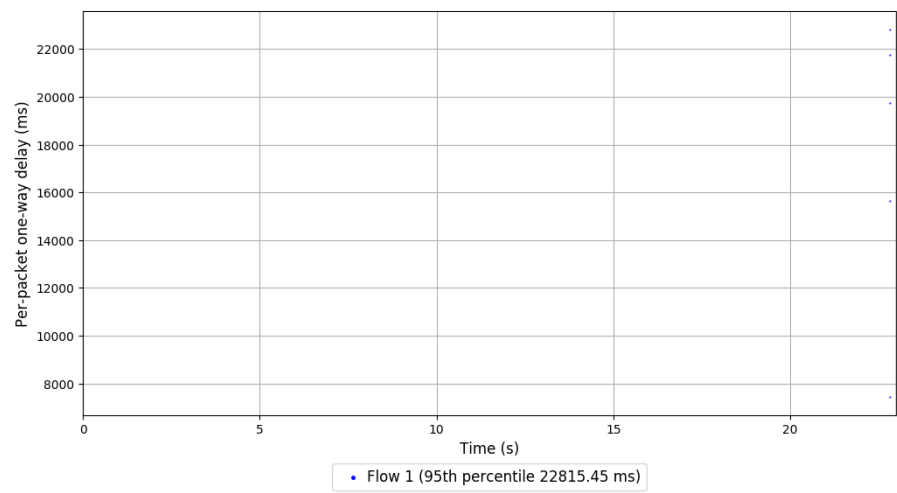
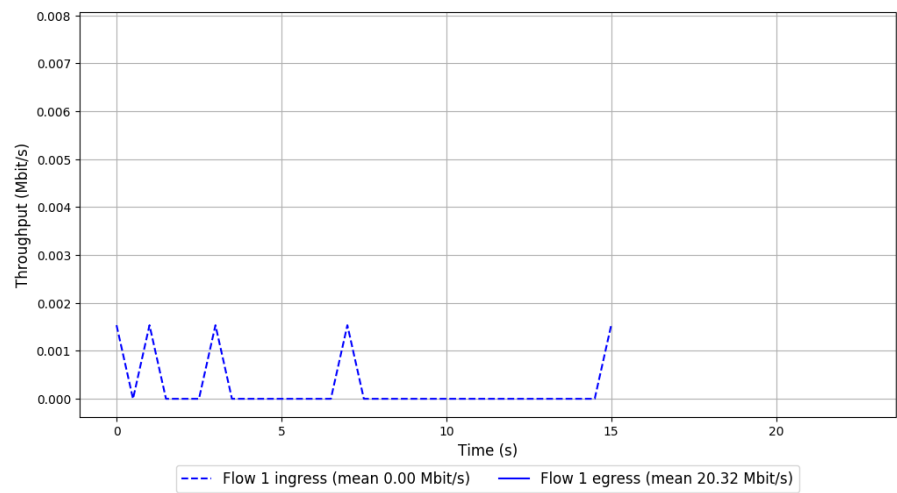


Run 3: Statistics of TCP Vegas

Start at: 2017-12-11 07:48:12

End at: 2017-12-11 07:48:42

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-12-11 07:59:19

End at: 2017-12-11 07:59:49

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 113.679 ms

Loss rate: 1.23%

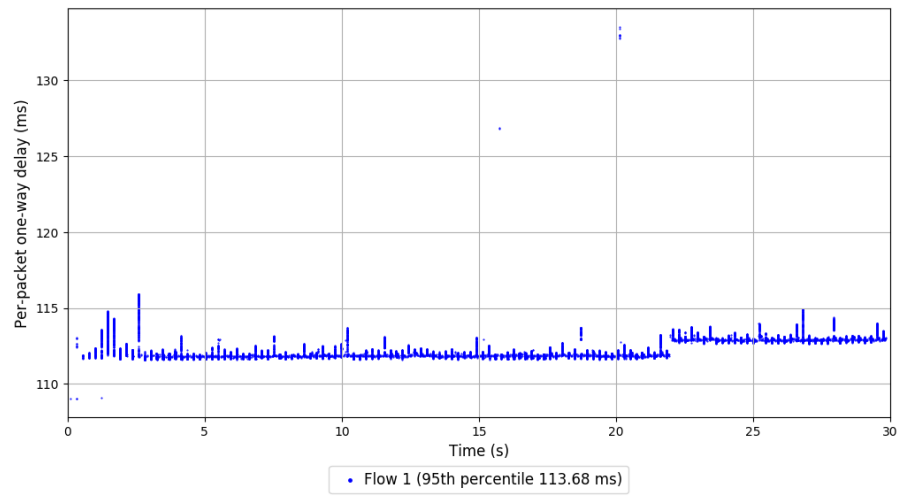
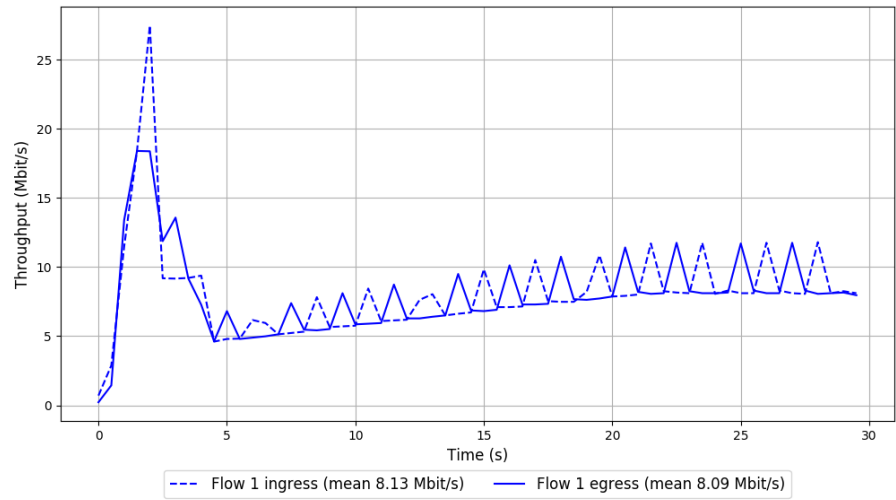
-- Flow 1:

Average throughput: 8.09 Mbit/s

95th percentile per-packet one-way delay: 113.679 ms

Loss rate: 1.23%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-12-11 08:10:10

End at: 2017-12-11 08:10:40

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.84 Mbit/s

95th percentile per-packet one-way delay: 113.816 ms

Loss rate: 0.73%

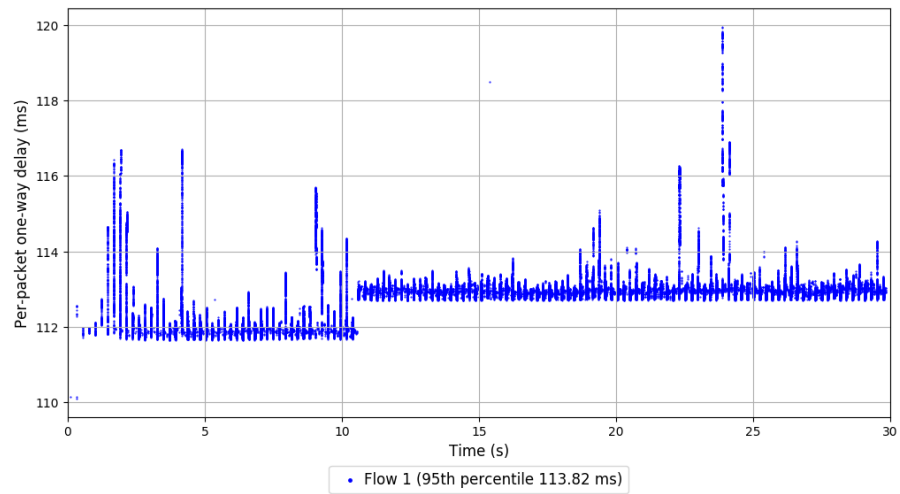
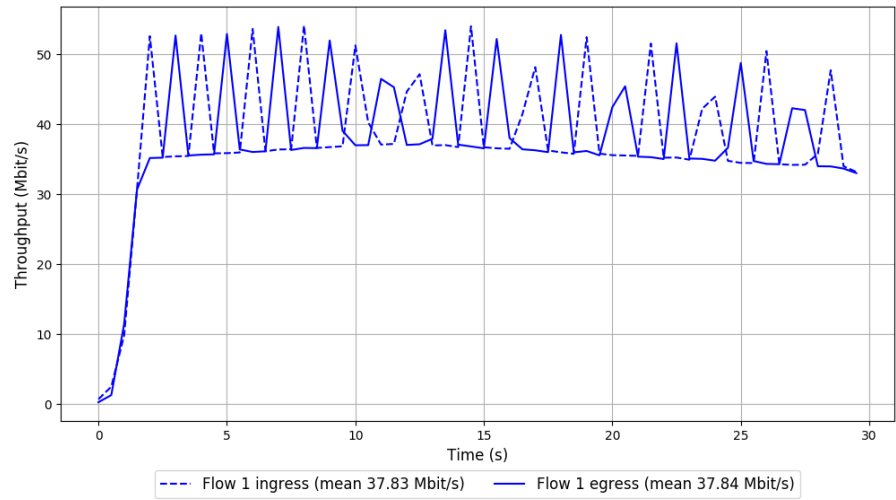
-- Flow 1:

Average throughput: 37.84 Mbit/s

95th percentile per-packet one-way delay: 113.816 ms

Loss rate: 0.73%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2017-12-11 08:21:09

End at: 2017-12-11 08:21:39

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.79 Mbit/s

95th percentile per-packet one-way delay: 123.902 ms

Loss rate: 0.36%

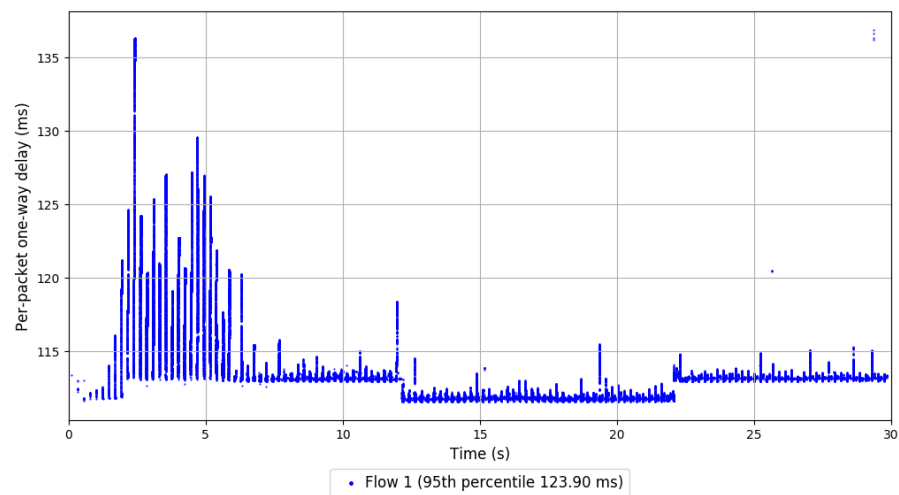
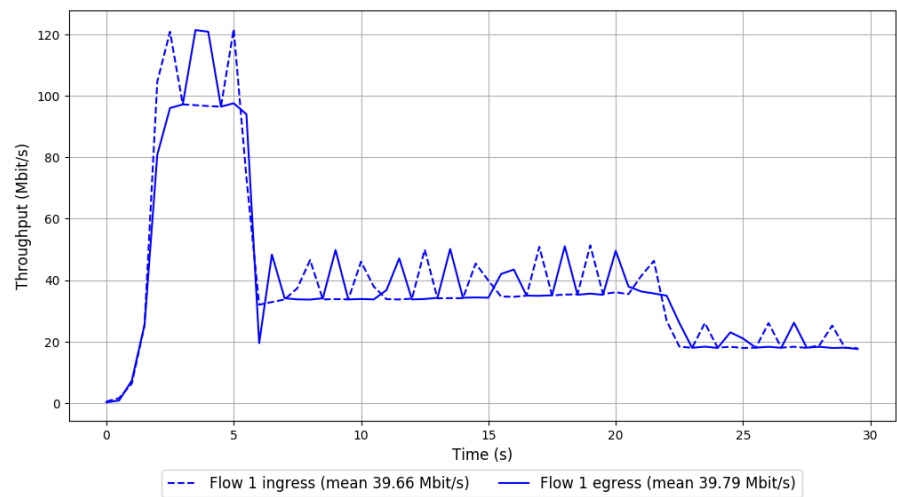
-- Flow 1:

Average throughput: 39.79 Mbit/s

95th percentile per-packet one-way delay: 123.902 ms

Loss rate: 0.36%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-12-11 08:32:19

End at: 2017-12-11 08:32:49

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.38 Mbit/s

95th percentile per-packet one-way delay: 113.980 ms

Loss rate: 0.77%

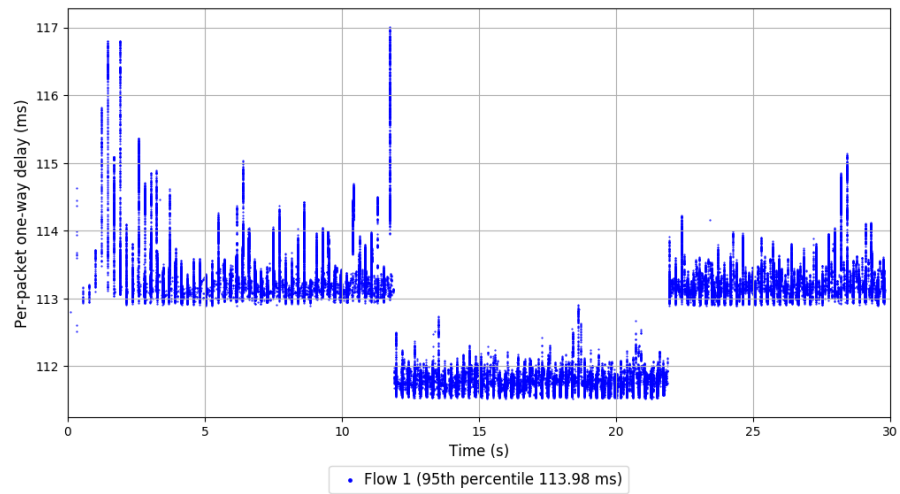
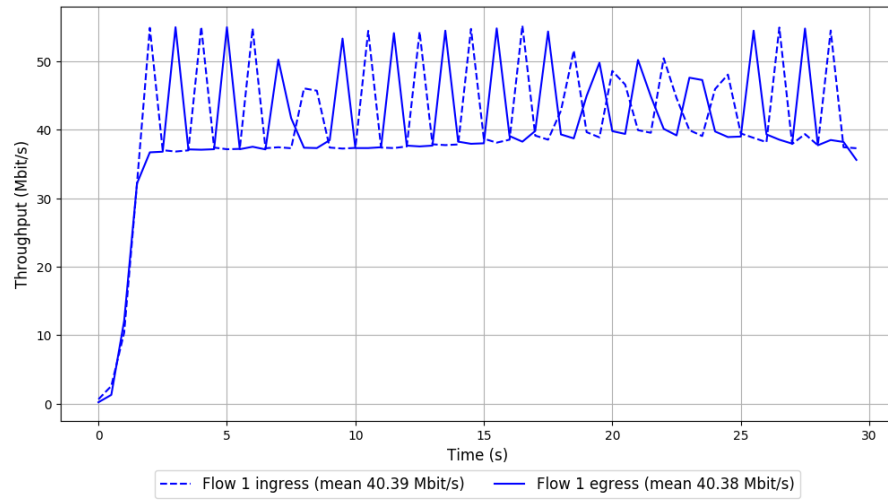
-- Flow 1:

Average throughput: 40.38 Mbit/s

95th percentile per-packet one-way delay: 113.980 ms

Loss rate: 0.77%

Run 7: Report of TCP Vegas — Data Link

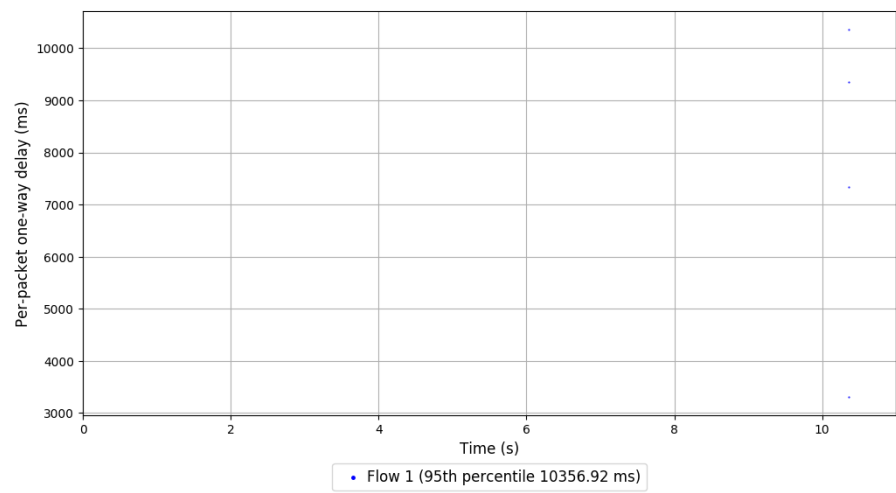
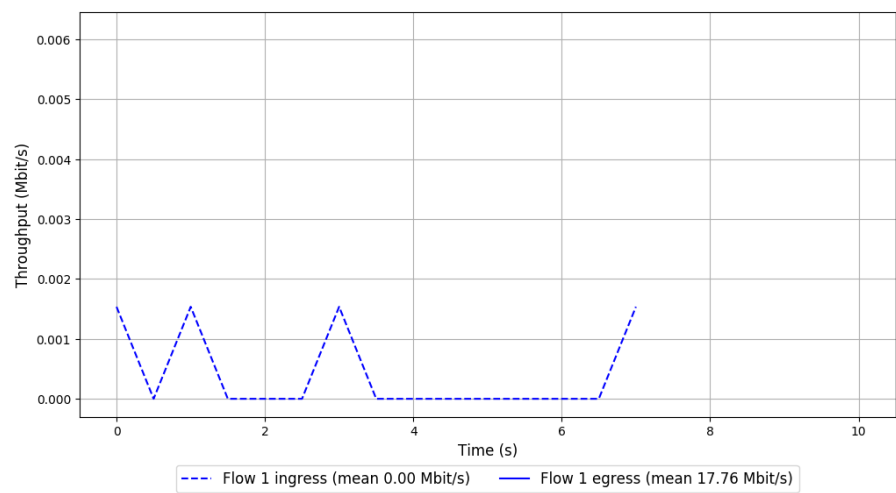


Run 8: Statistics of TCP Vegas

Start at: 2017-12-11 08:43:34

End at: 2017-12-11 08:44:04

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-12-11 08:54:34

End at: 2017-12-11 08:55:04

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 114.462 ms

Loss rate: 0.73%

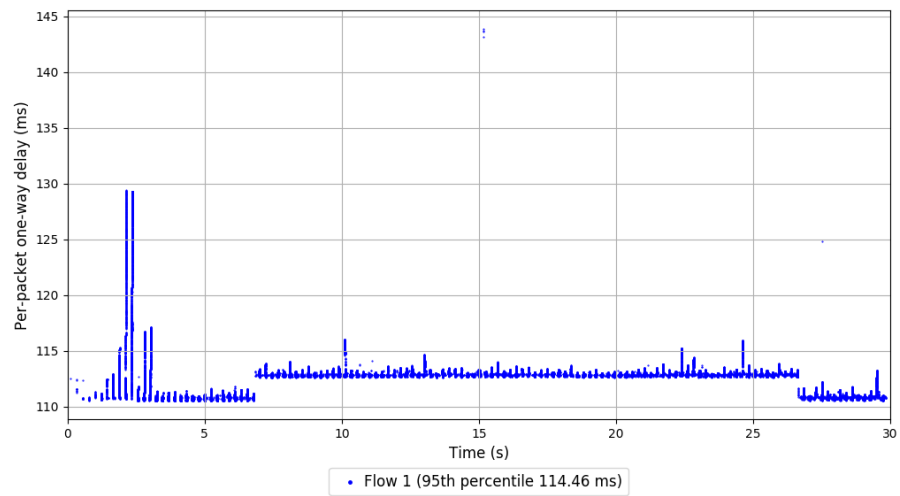
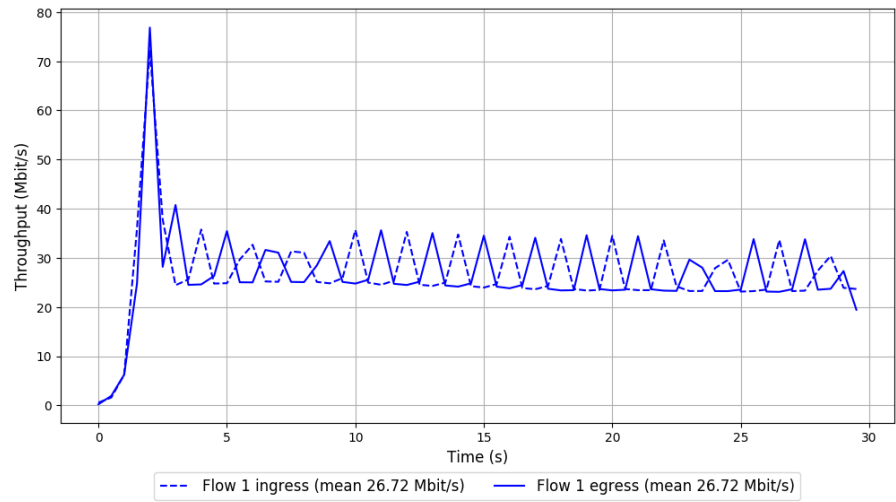
-- Flow 1:

Average throughput: 26.72 Mbit/s

95th percentile per-packet one-way delay: 114.462 ms

Loss rate: 0.73%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-12-11 09:05:42

End at: 2017-12-11 09:06:12

Below is generated by plot.py at 2017-12-11 11:25:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 113.514 ms

Loss rate: 0.84%

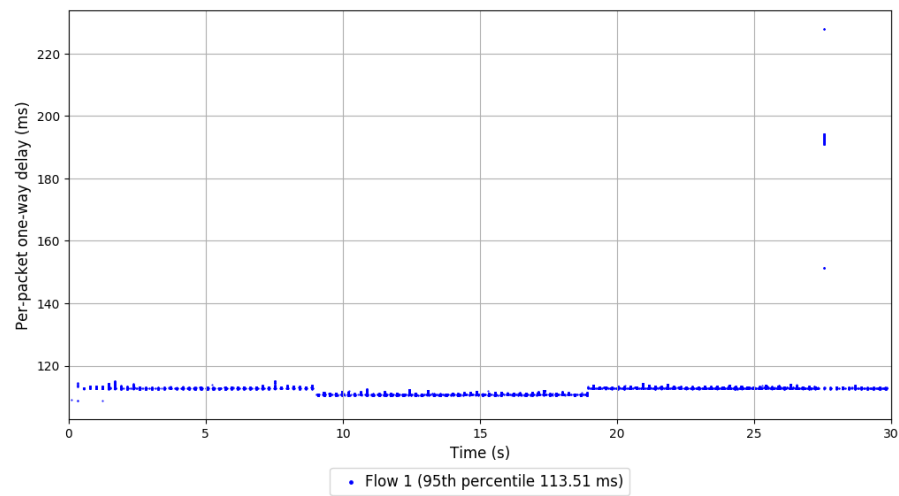
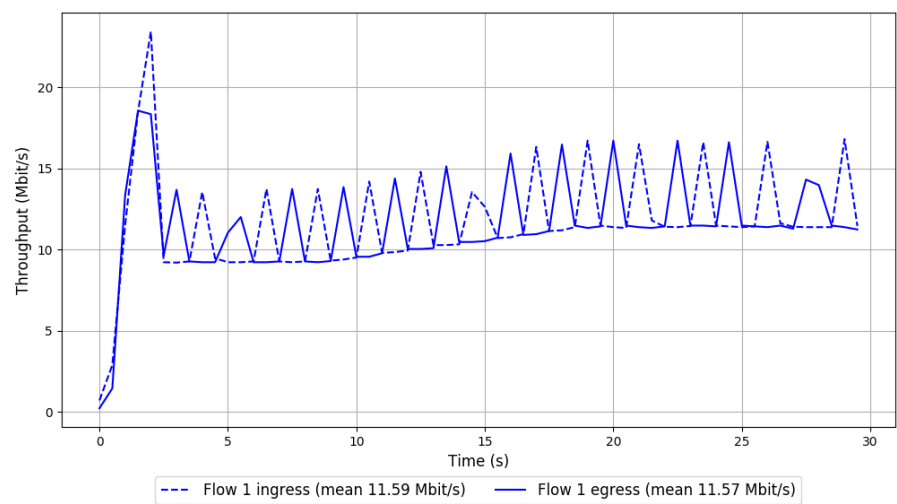
-- Flow 1:

Average throughput: 11.57 Mbit/s

95th percentile per-packet one-way delay: 113.514 ms

Loss rate: 0.84%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-12-11 07:21:27

End at: 2017-12-11 07:21:57

Below is generated by plot.py at 2017-12-11 11:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.69 Mbit/s

95th percentile per-packet one-way delay: 258.430 ms

Loss rate: 3.04%

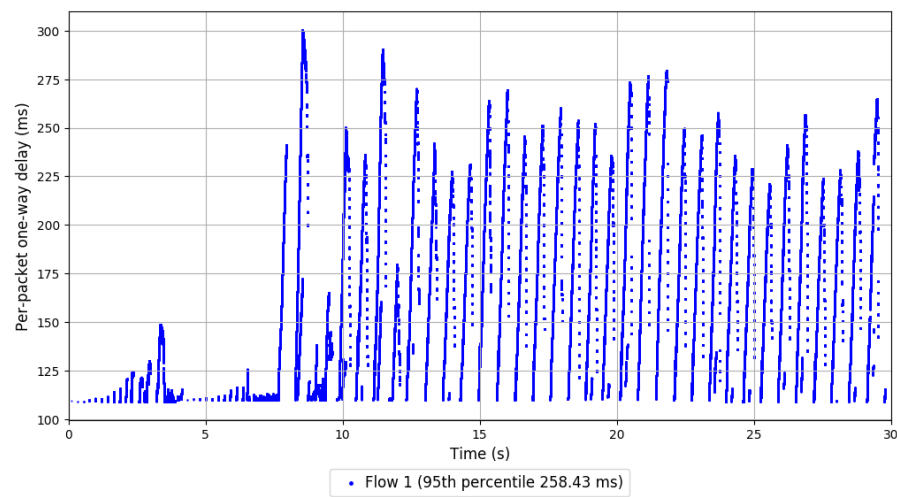
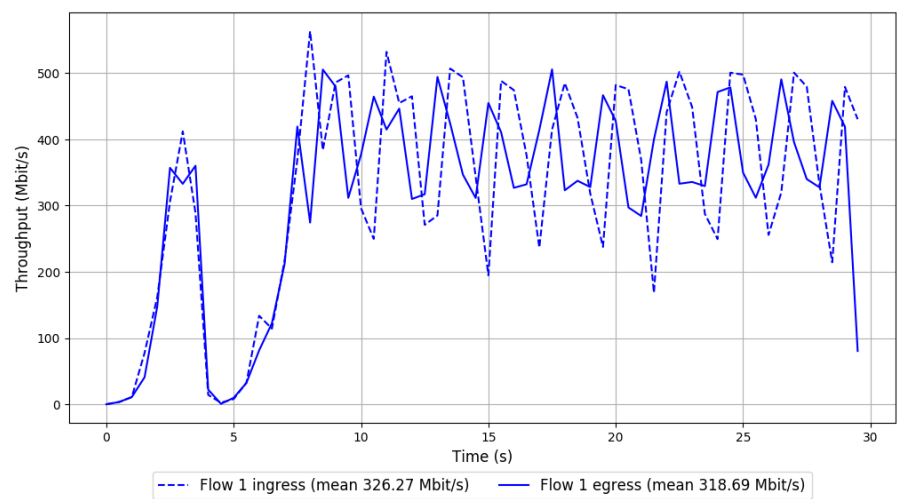
-- Flow 1:

Average throughput: 318.69 Mbit/s

95th percentile per-packet one-way delay: 258.430 ms

Loss rate: 3.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-12-11 07:32:35

End at: 2017-12-11 07:33:05

Below is generated by plot.py at 2017-12-11 11:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.21 Mbit/s

95th percentile per-packet one-way delay: 157.187 ms

Loss rate: 1.07%

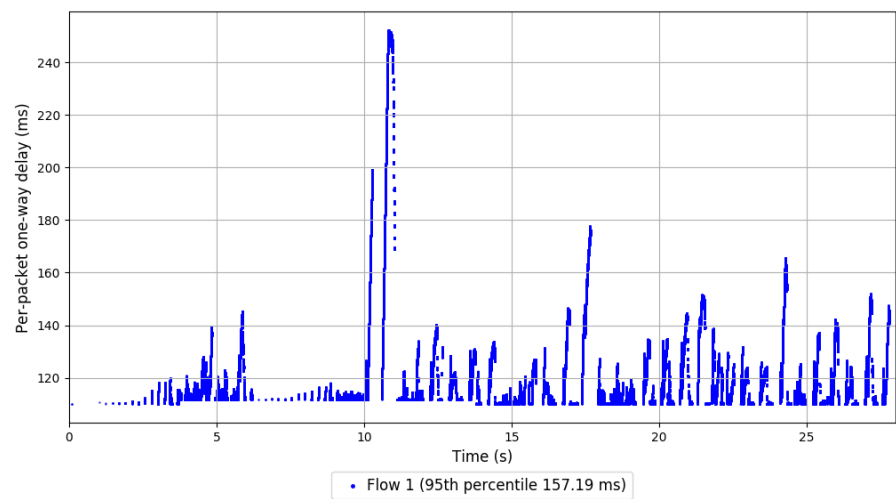
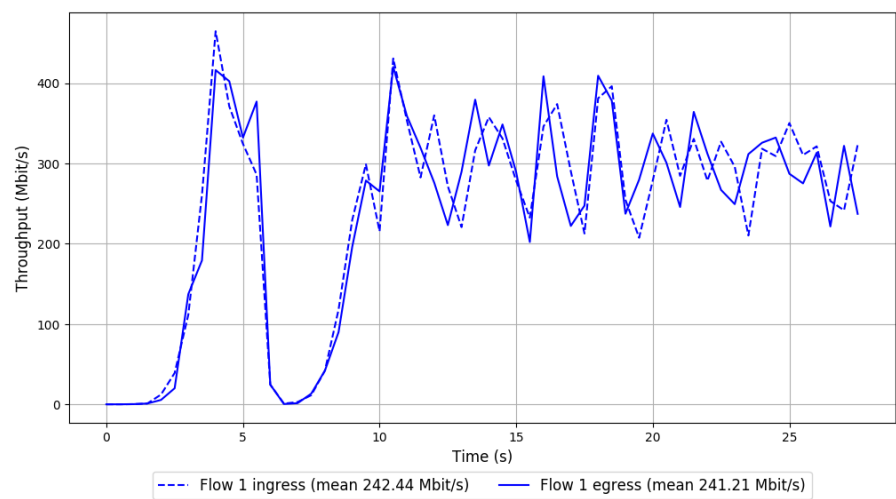
-- Flow 1:

Average throughput: 241.21 Mbit/s

95th percentile per-packet one-way delay: 157.187 ms

Loss rate: 1.07%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-12-11 07:43:29

End at: 2017-12-11 07:43:59

Below is generated by plot.py at 2017-12-11 11:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.54 Mbit/s

95th percentile per-packet one-way delay: 153.666 ms

Loss rate: 0.07%

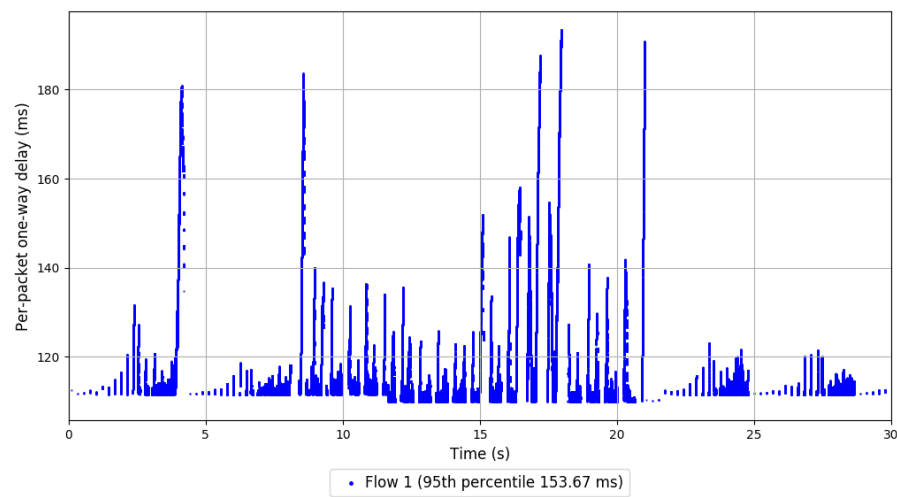
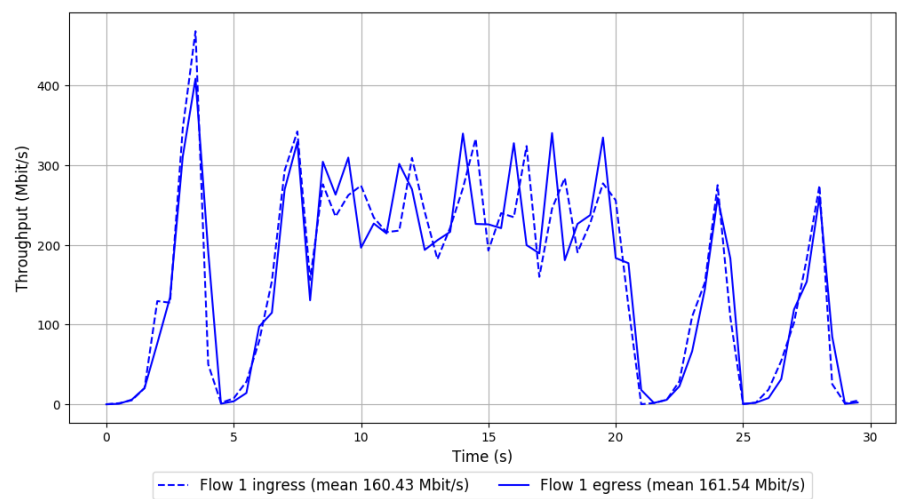
-- Flow 1:

Average throughput: 161.54 Mbit/s

95th percentile per-packet one-way delay: 153.666 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-12-11 07:54:39

End at: 2017-12-11 07:55:09

Below is generated by plot.py at 2017-12-11 11:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.77 Mbit/s

95th percentile per-packet one-way delay: 167.398 ms

Loss rate: 0.35%

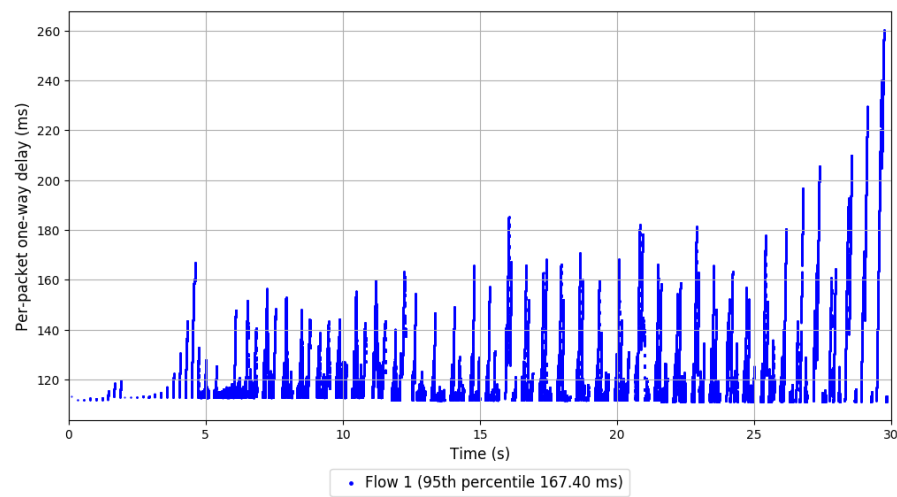
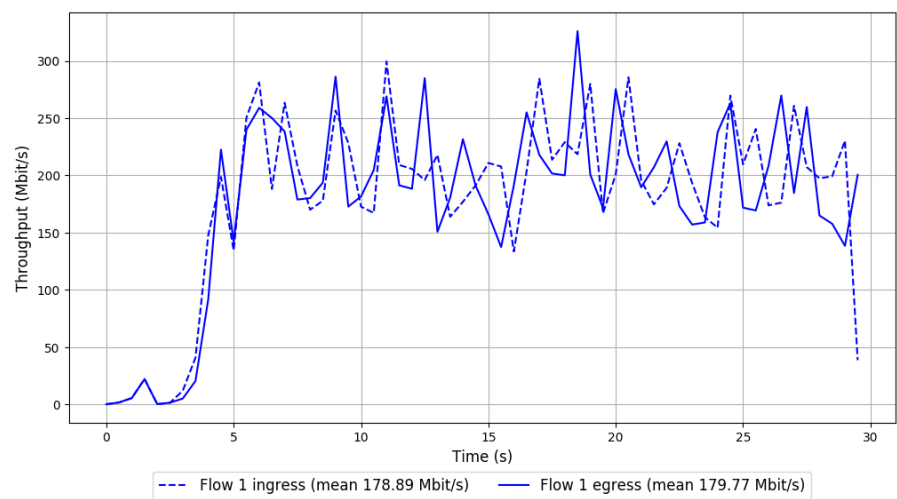
-- Flow 1:

Average throughput: 179.77 Mbit/s

95th percentile per-packet one-way delay: 167.398 ms

Loss rate: 0.35%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-12-11 08:05:45

End at: 2017-12-11 08:06:15

Below is generated by plot.py at 2017-12-11 11:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 267.797 ms

Loss rate: 5.33%

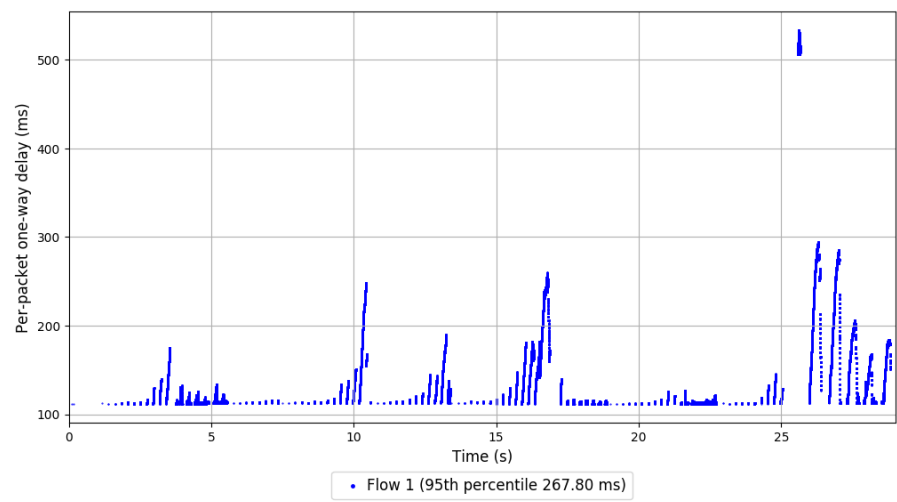
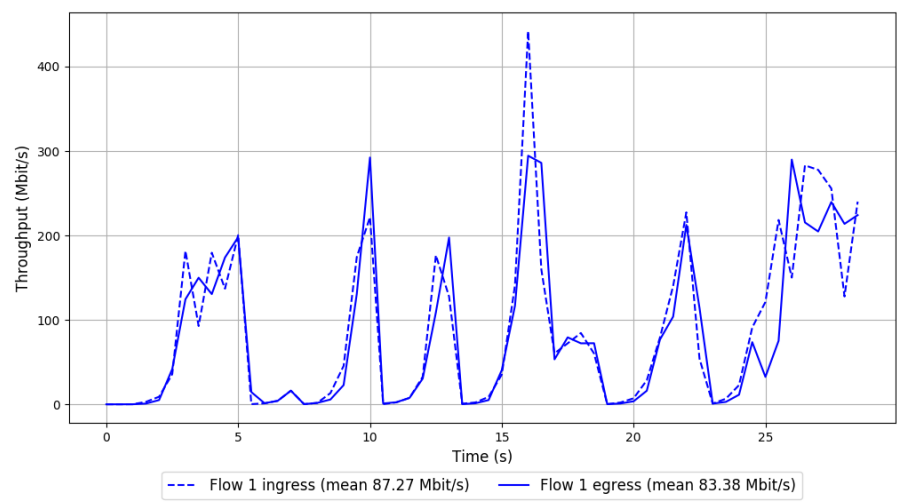
-- Flow 1:

Average throughput: 83.38 Mbit/s

95th percentile per-packet one-way delay: 267.797 ms

Loss rate: 5.33%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2017-12-11 08:16:39

End at: 2017-12-11 08:17:09

Below is generated by plot.py at 2017-12-11 11:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.89 Mbit/s

95th percentile per-packet one-way delay: 299.843 ms

Loss rate: 11.03%

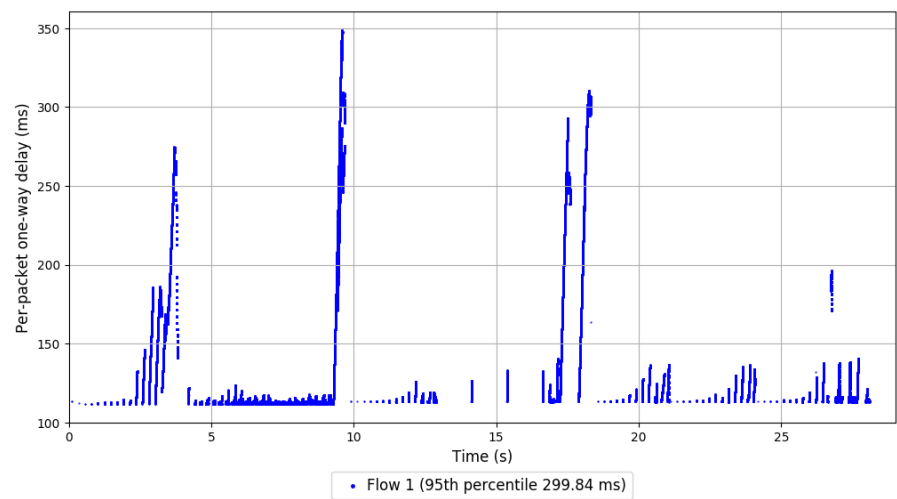
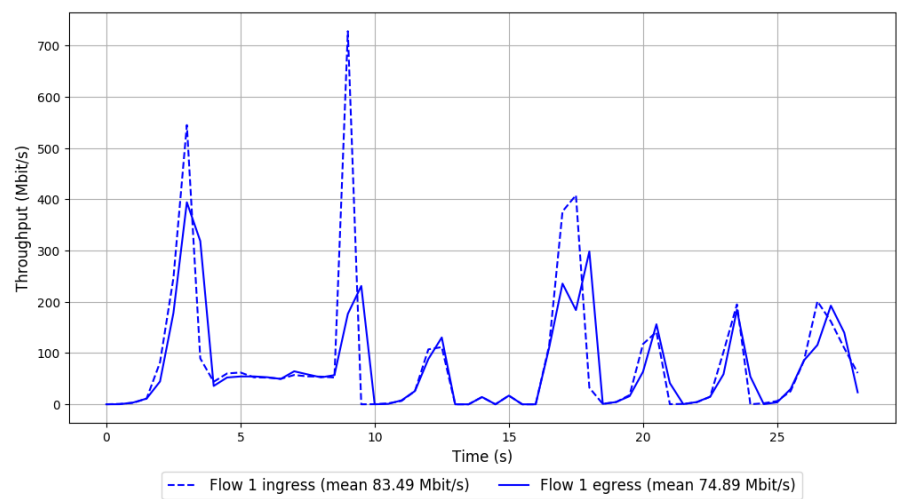
-- Flow 1:

Average throughput: 74.89 Mbit/s

95th percentile per-packet one-way delay: 299.843 ms

Loss rate: 11.03%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2017-12-11 08:27:42

End at: 2017-12-11 08:28:13

Below is generated by plot.py at 2017-12-11 11:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.94 Mbit/s

95th percentile per-packet one-way delay: 178.708 ms

Loss rate: 1.46%

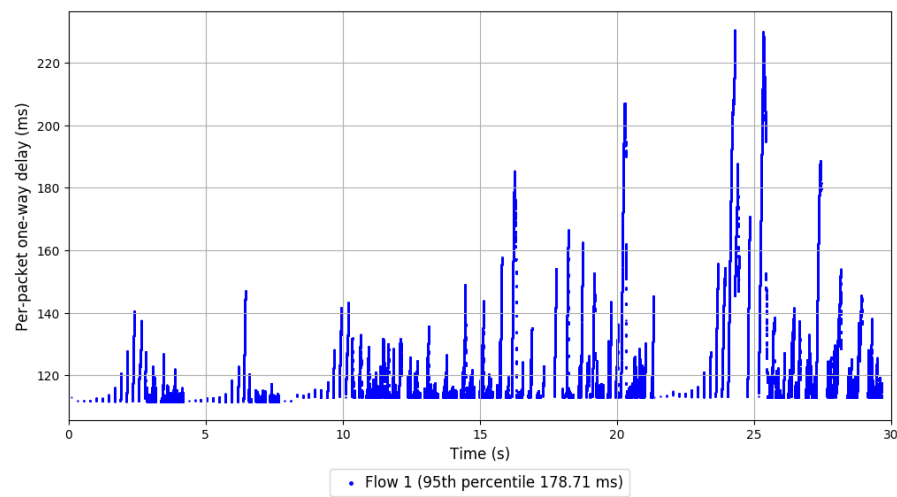
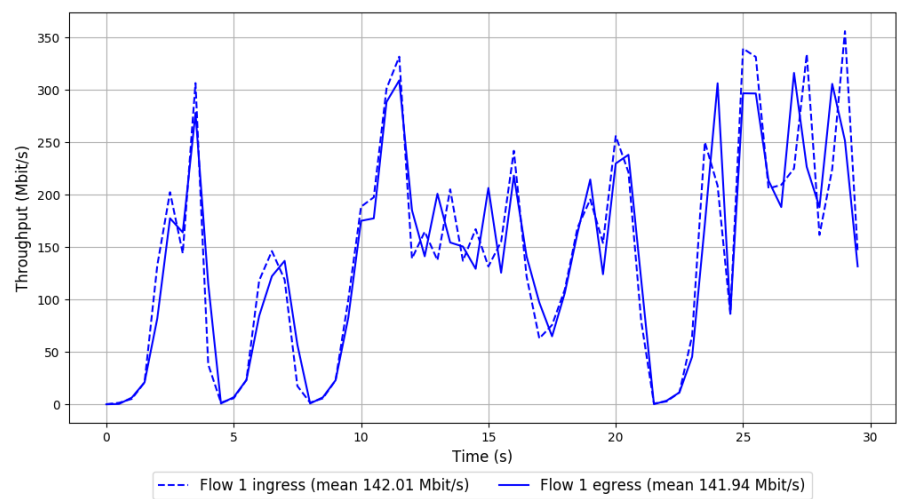
-- Flow 1:

Average throughput: 141.94 Mbit/s

95th percentile per-packet one-way delay: 178.708 ms

Loss rate: 1.46%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2017-12-11 08:38:49

End at: 2017-12-11 08:39:19

Below is generated by plot.py at 2017-12-11 11:28:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.74 Mbit/s

95th percentile per-packet one-way delay: 278.572 ms

Loss rate: 3.11%

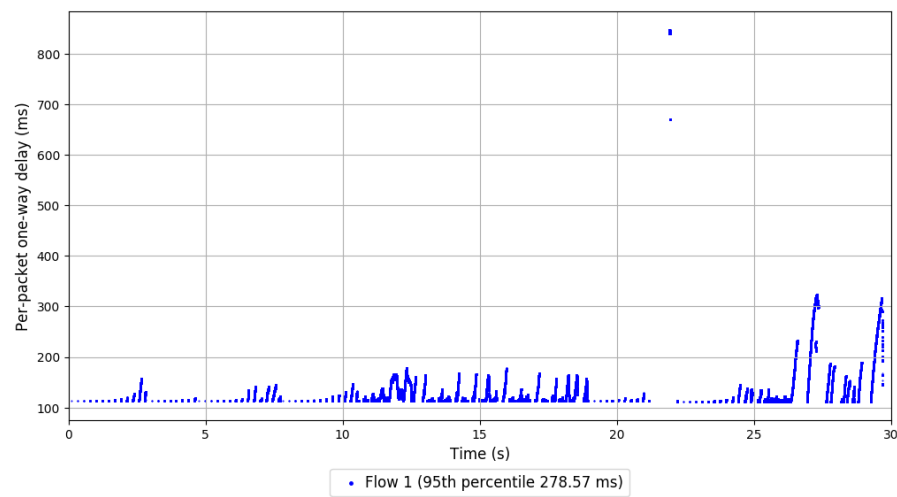
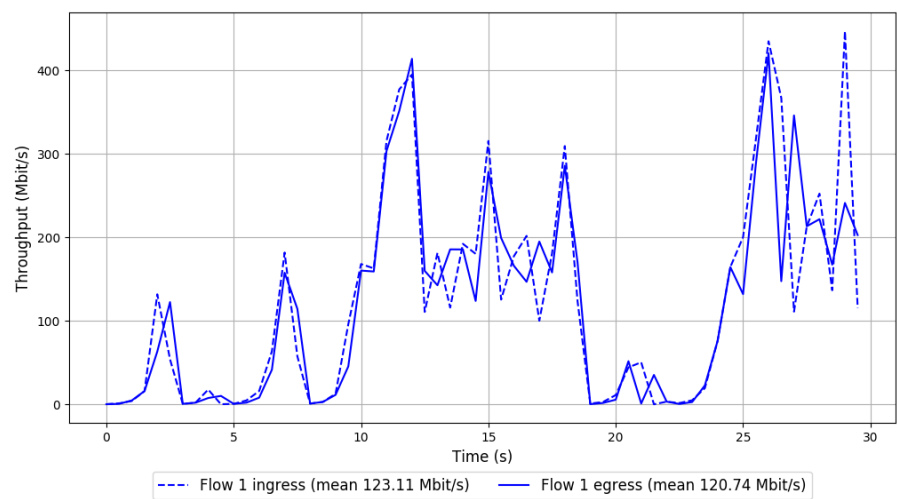
-- Flow 1:

Average throughput: 120.74 Mbit/s

95th percentile per-packet one-way delay: 278.572 ms

Loss rate: 3.11%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-12-11 08:50:01

End at: 2017-12-11 08:50:31

Below is generated by plot.py at 2017-12-11 11:28:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.25 Mbit/s

95th percentile per-packet one-way delay: 224.659 ms

Loss rate: 2.62%

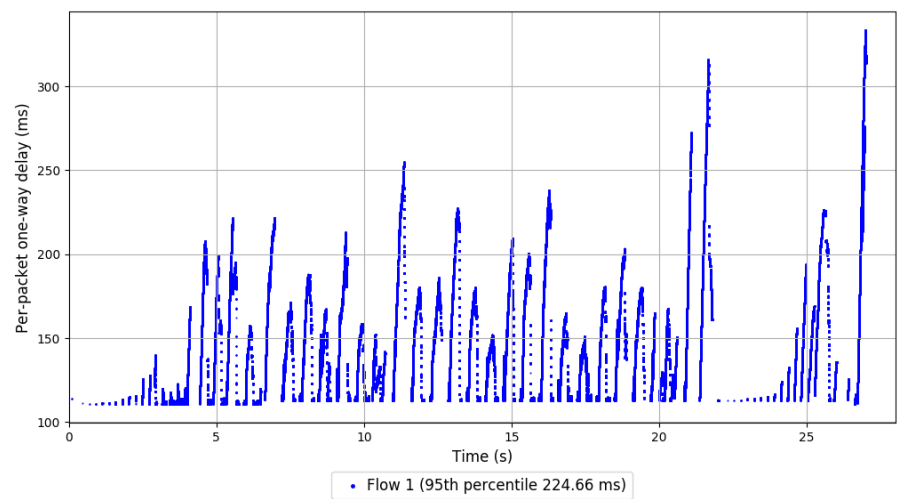
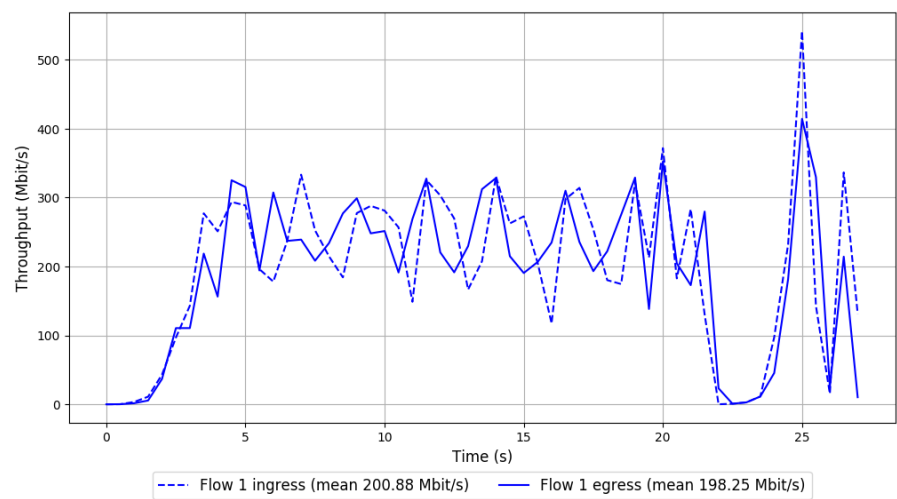
-- Flow 1:

Average throughput: 198.25 Mbit/s

95th percentile per-packet one-way delay: 224.659 ms

Loss rate: 2.62%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2017-12-11 09:01:04

End at: 2017-12-11 09:01:34

Below is generated by plot.py at 2017-12-11 11:28:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.72 Mbit/s

95th percentile per-packet one-way delay: 258.525 ms

Loss rate: 4.76%

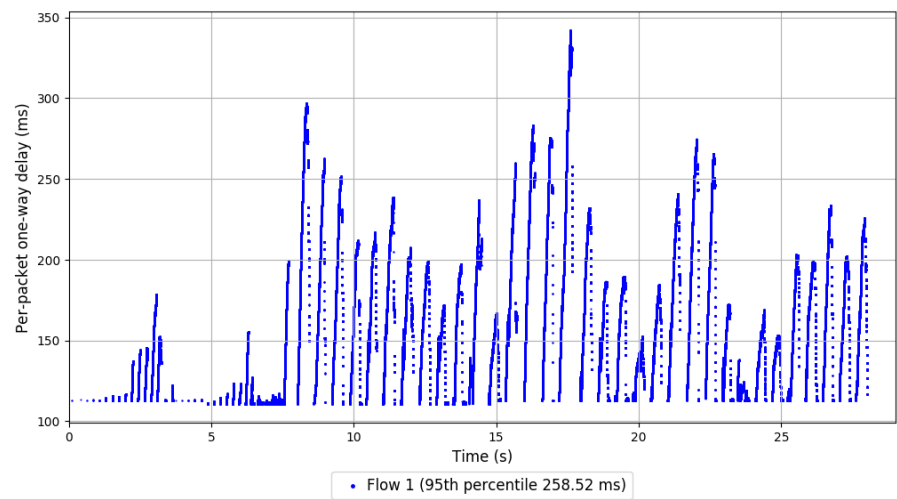
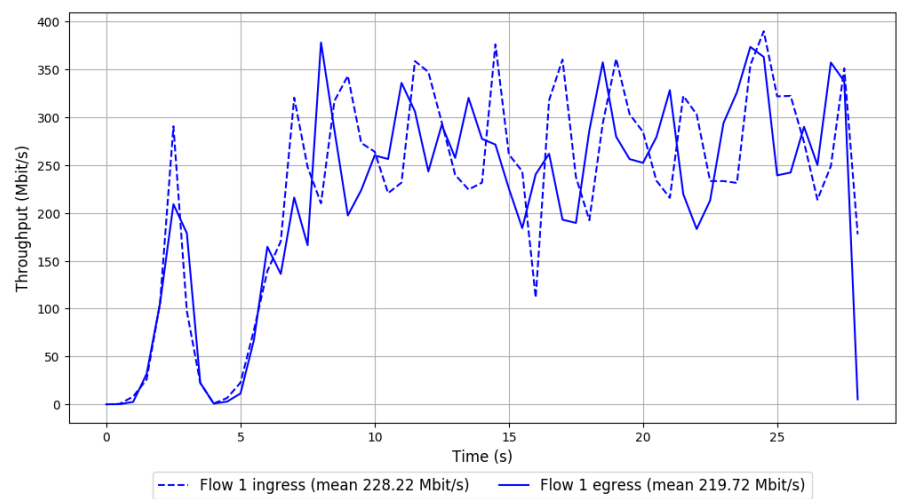
-- Flow 1:

Average throughput: 219.72 Mbit/s

95th percentile per-packet one-way delay: 258.525 ms

Loss rate: 4.76%

Run 10: Report of Verus — Data Link

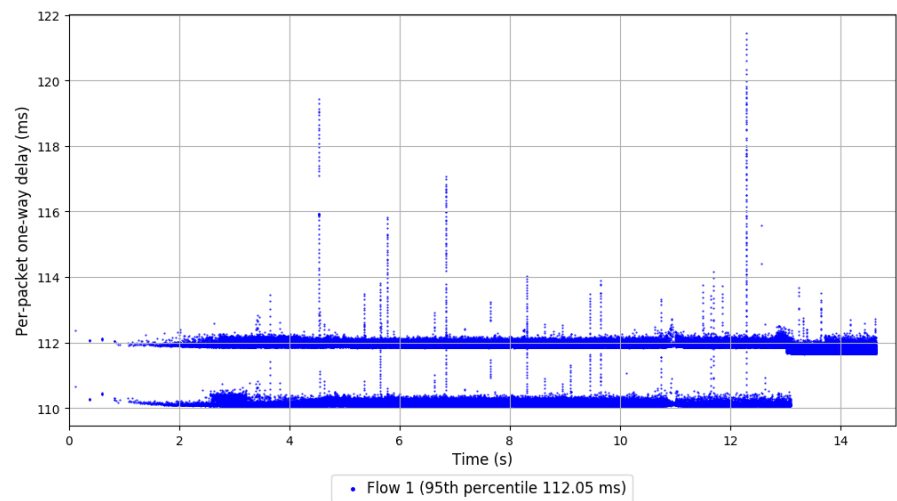
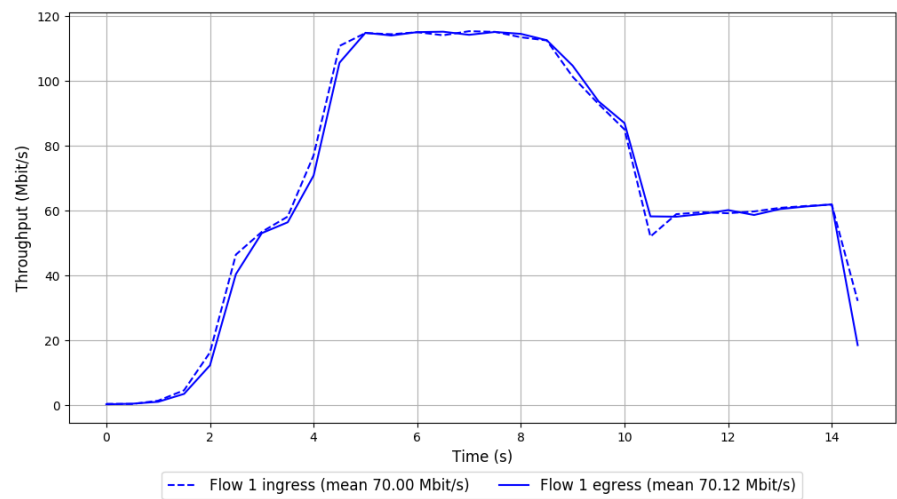


Run 1: Statistics of Copa

Start at: 2017-12-11 07:23:12

End at: 2017-12-11 07:23:42

Run 1: Report of Copa — Data Link

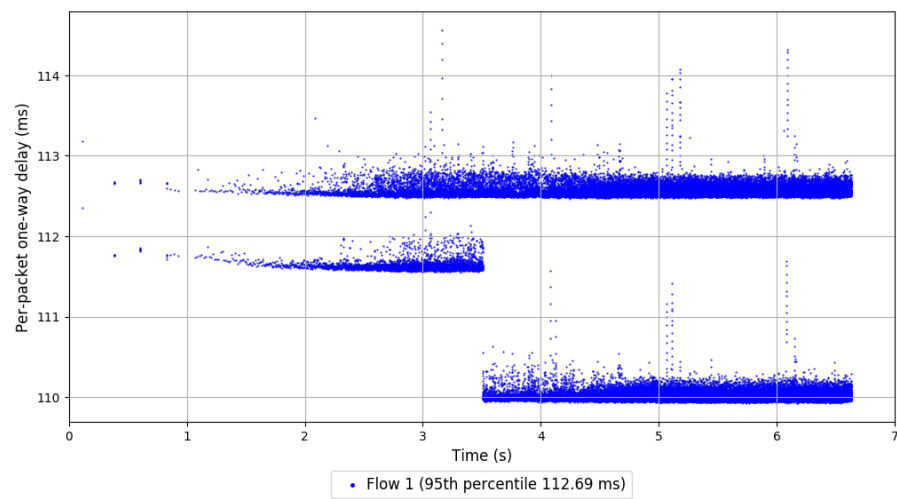
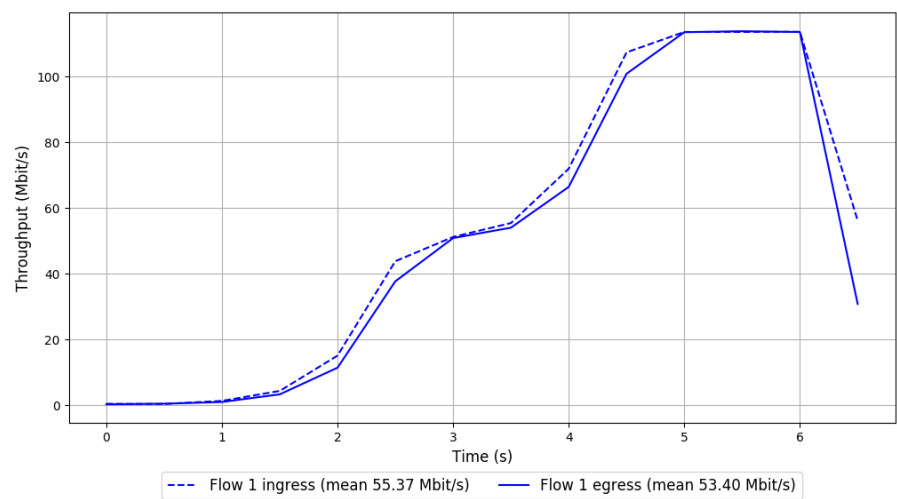


Run 2: Statistics of Copa

Start at: 2017-12-11 07:34:14

End at: 2017-12-11 07:34:44

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2017-12-11 07:45:04

End at: 2017-12-11 07:45:34

Below is generated by plot.py at 2017-12-11 11:28:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 113.144 ms

Loss rate: 2.33%

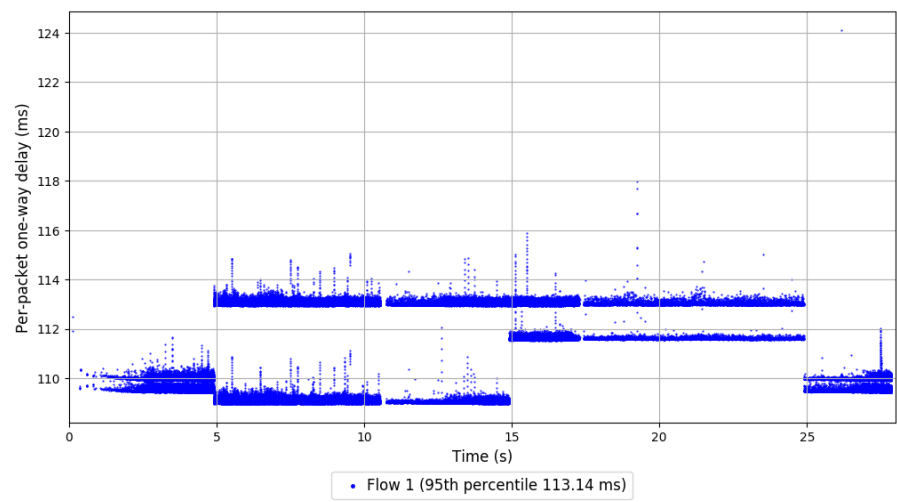
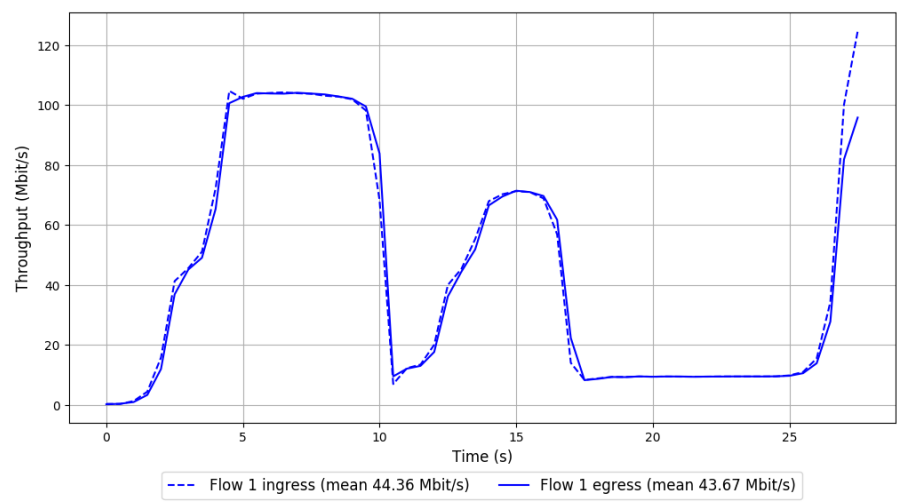
-- Flow 1:

Average throughput: 43.67 Mbit/s

95th percentile per-packet one-way delay: 113.144 ms

Loss rate: 2.33%

Run 3: Report of Copa — Data Link

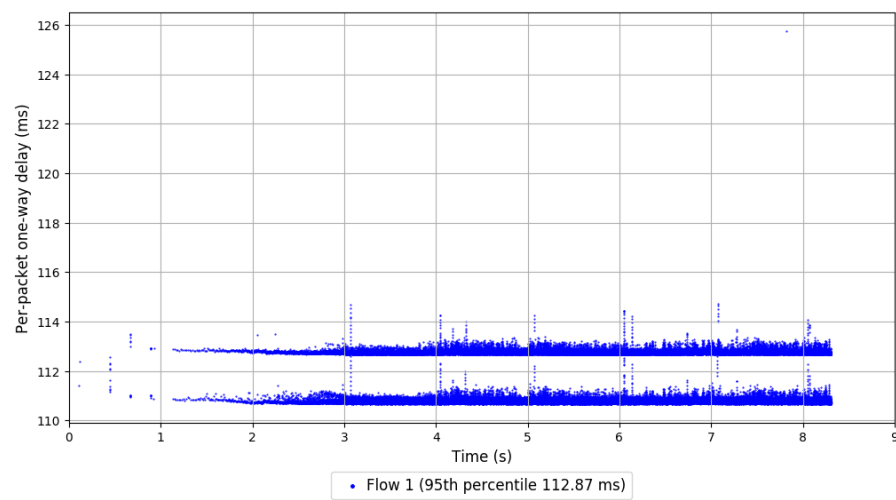
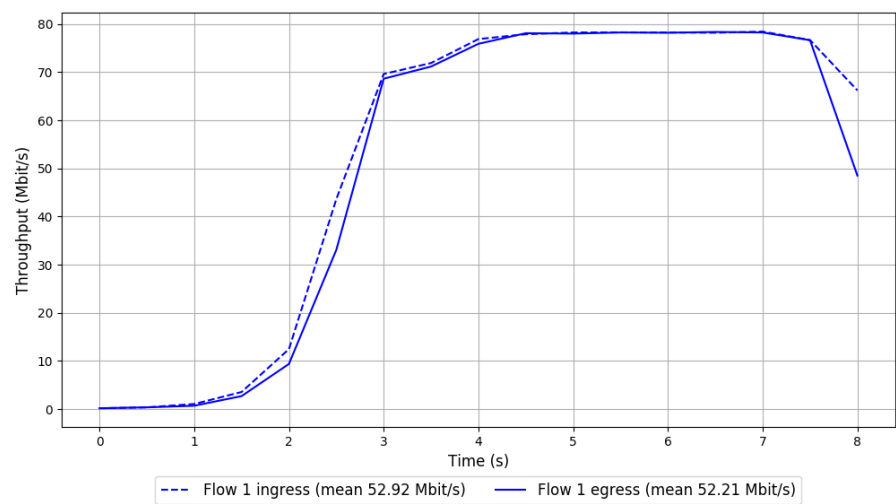


Run 4: Statistics of Copa

Start at: 2017-12-11 07:56:19

End at: 2017-12-11 07:56:49

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-12-11 08:07:14

End at: 2017-12-11 08:07:44

Below is generated by plot.py at 2017-12-11 11:28:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 112.825 ms

Loss rate: 0.24%

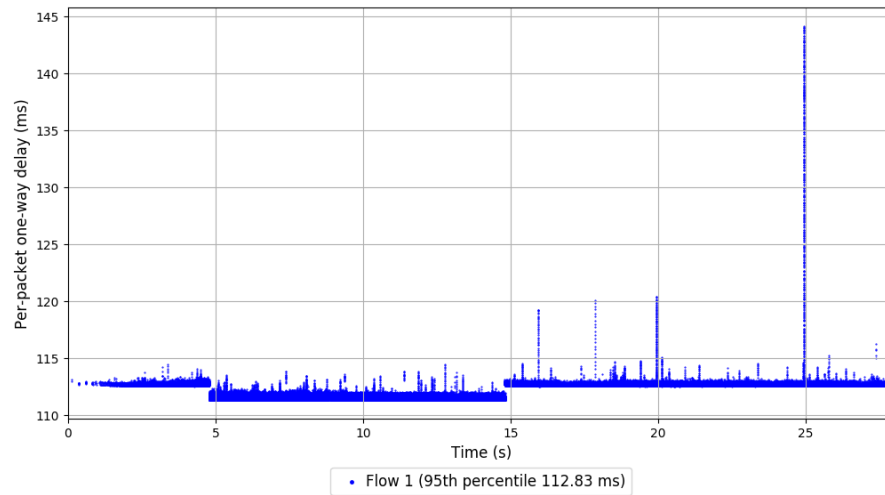
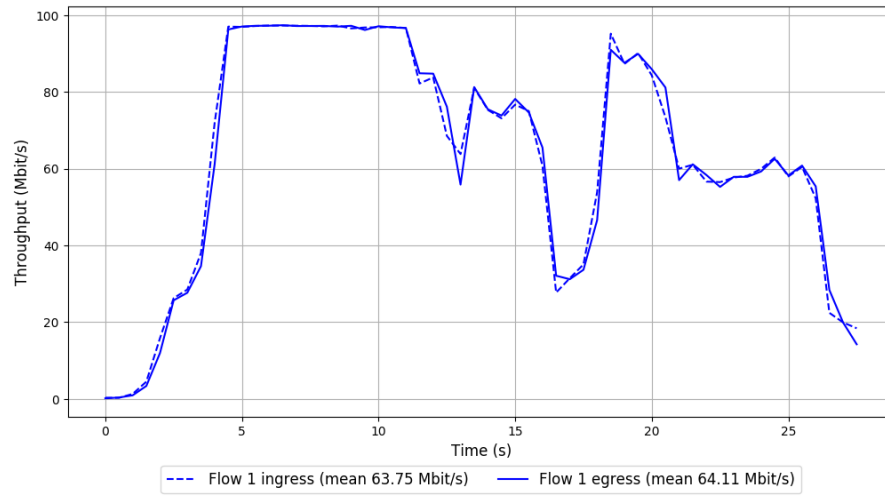
-- Flow 1:

Average throughput: 64.11 Mbit/s

95th percentile per-packet one-way delay: 112.825 ms

Loss rate: 0.24%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-12-11 08:18:07

End at: 2017-12-11 08:18:37

Below is generated by plot.py at 2017-12-11 11:28:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 113.116 ms

Loss rate: 0.95%

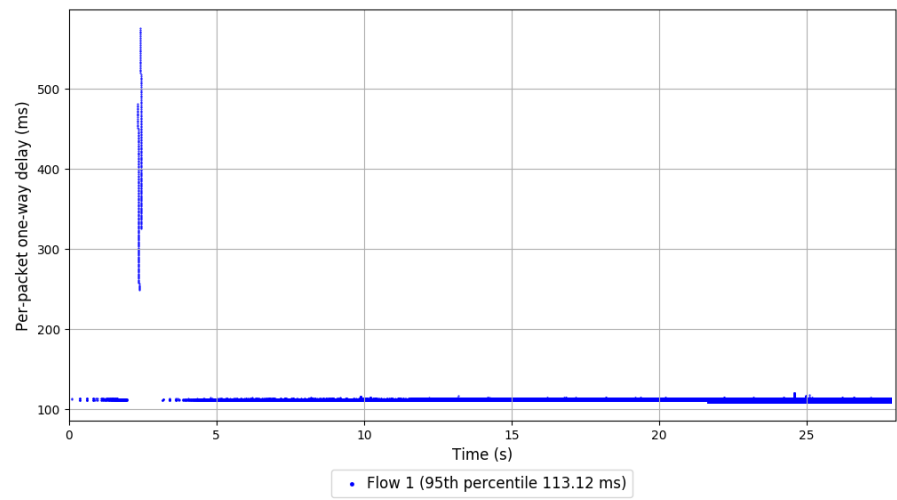
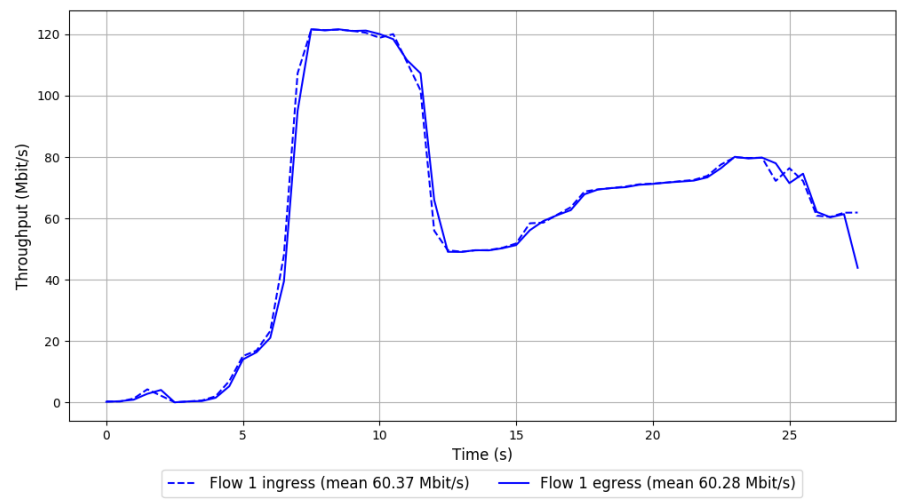
-- Flow 1:

Average throughput: 60.28 Mbit/s

95th percentile per-packet one-way delay: 113.116 ms

Loss rate: 0.95%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2017-12-11 08:29:16

End at: 2017-12-11 08:29:46

Below is generated by plot.py at 2017-12-11 11:28:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.42 Mbit/s

95th percentile per-packet one-way delay: 113.166 ms

Loss rate: 0.89%

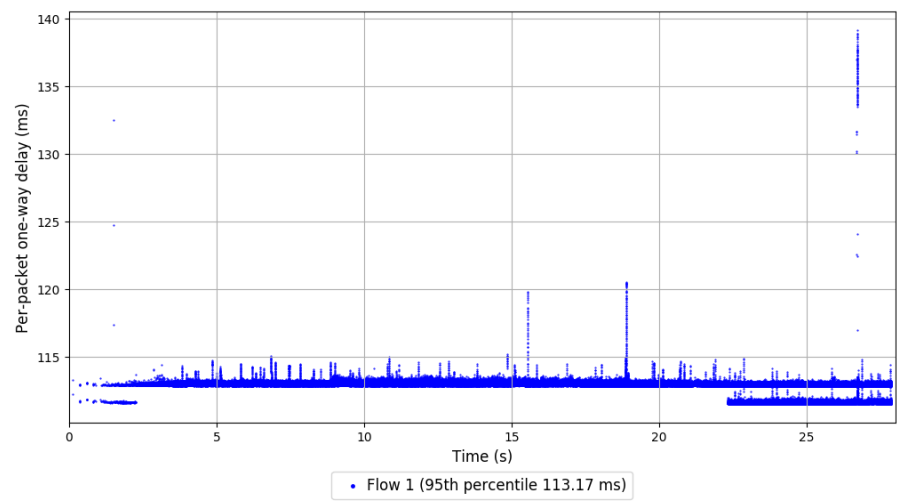
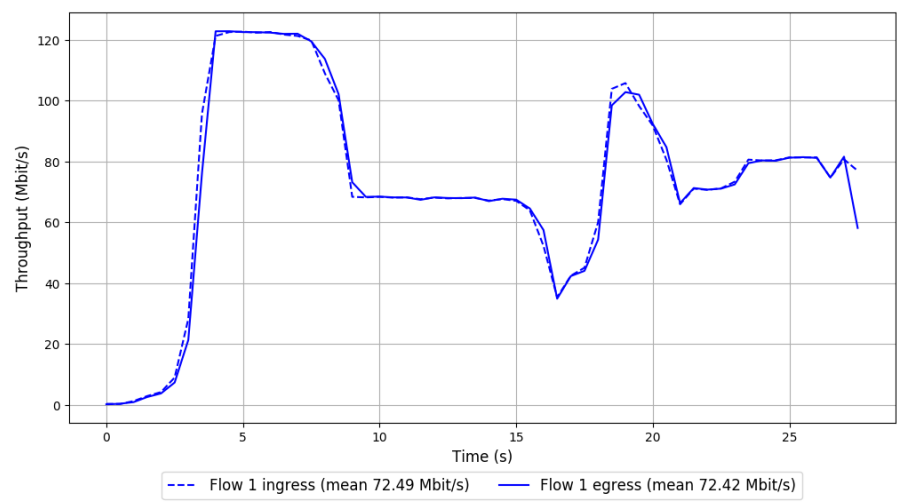
-- Flow 1:

Average throughput: 72.42 Mbit/s

95th percentile per-packet one-way delay: 113.166 ms

Loss rate: 0.89%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2017-12-11 08:40:22

End at: 2017-12-11 08:40:52

Below is generated by plot.py at 2017-12-11 11:29:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.20 Mbit/s

95th percentile per-packet one-way delay: 113.162 ms

Loss rate: 0.85%

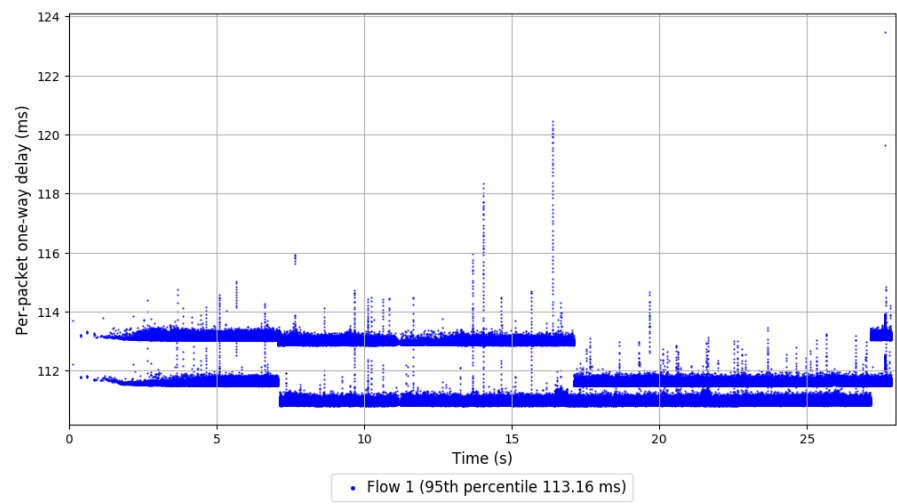
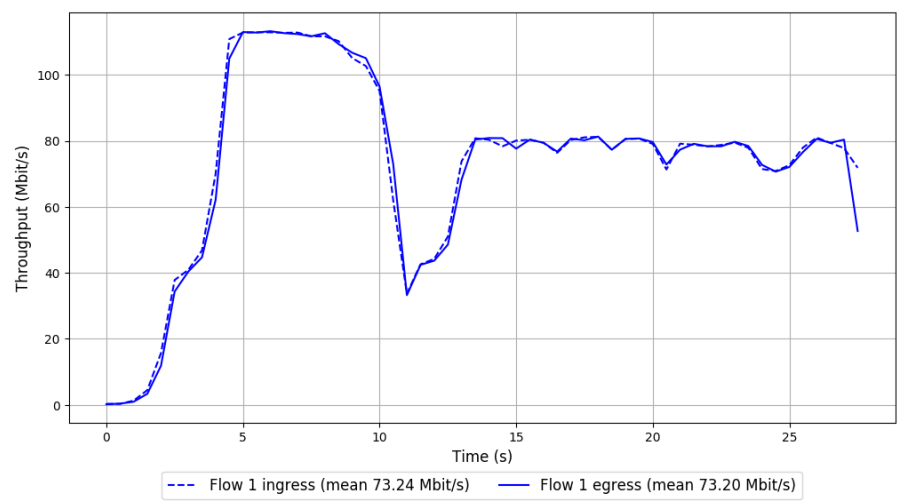
-- Flow 1:

Average throughput: 73.20 Mbit/s

95th percentile per-packet one-way delay: 113.162 ms

Loss rate: 0.85%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2017-12-11 08:51:38

End at: 2017-12-11 08:52:08

Below is generated by plot.py at 2017-12-11 11:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.04 Mbit/s

95th percentile per-packet one-way delay: 113.752 ms

Loss rate: 0.83%

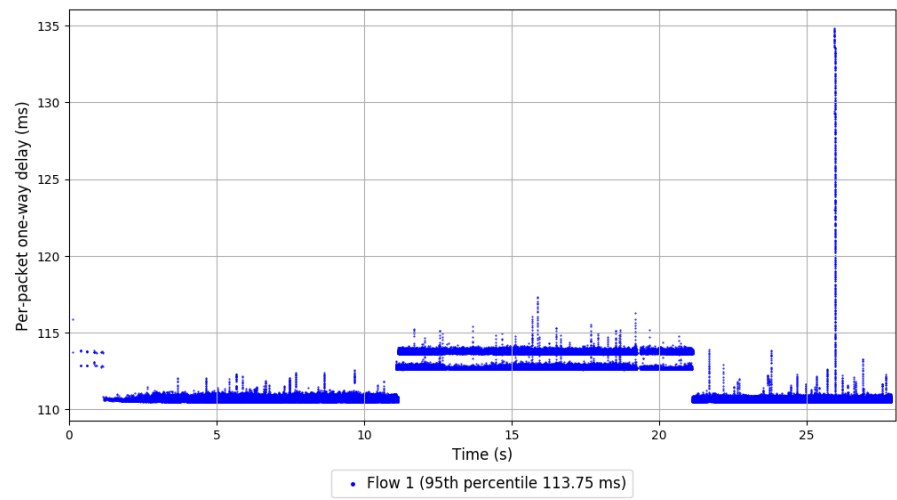
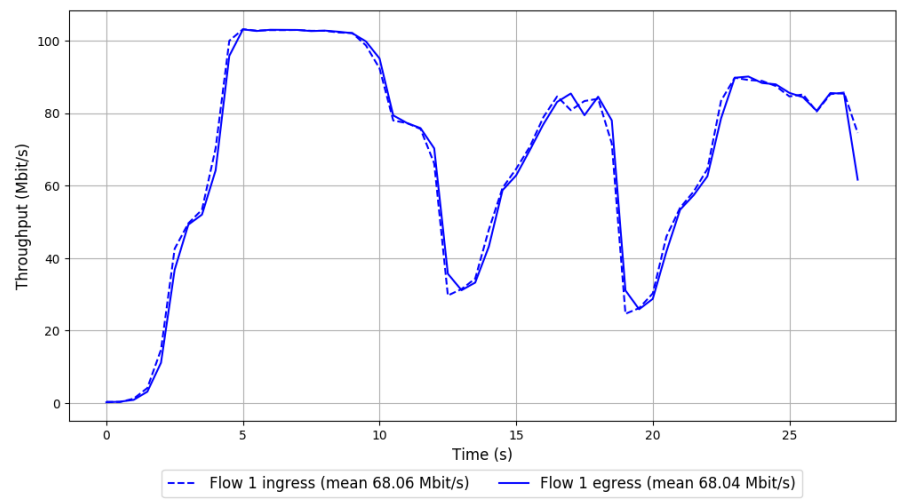
-- Flow 1:

Average throughput: 68.04 Mbit/s

95th percentile per-packet one-way delay: 113.752 ms

Loss rate: 0.83%

Run 9: Report of Copa — Data Link

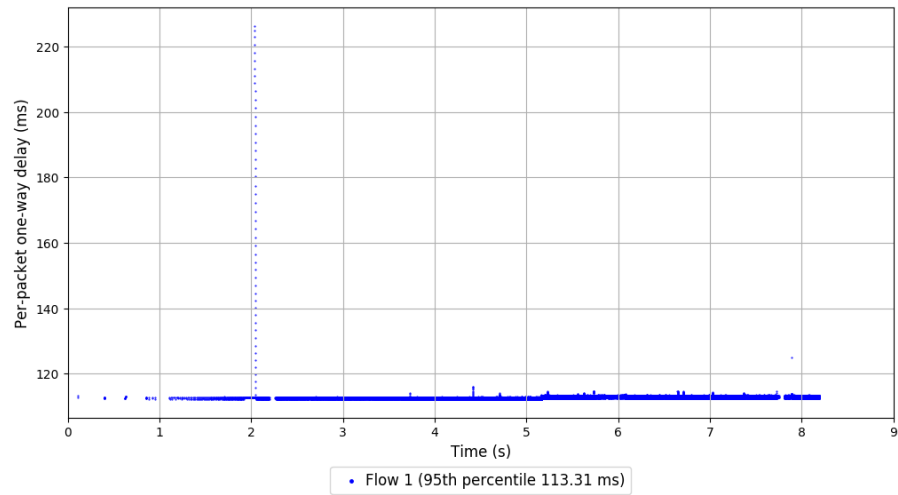
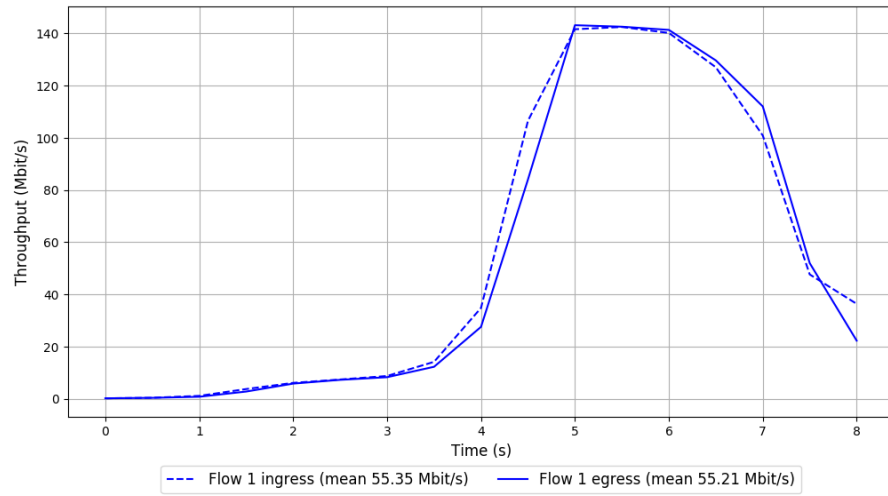


Run 10: Statistics of Copa

Start at: 2017-12-11 09:02:44

End at: 2017-12-11 09:03:14

Run 10: Report of Copa — Data Link

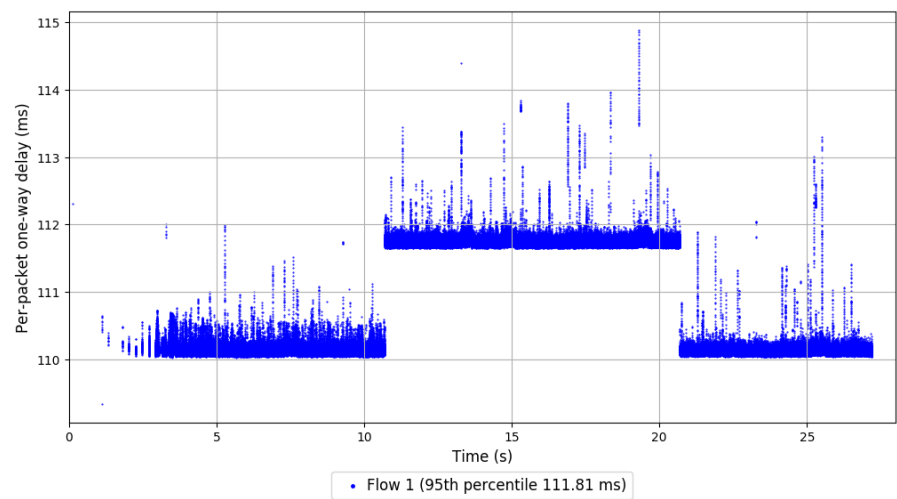
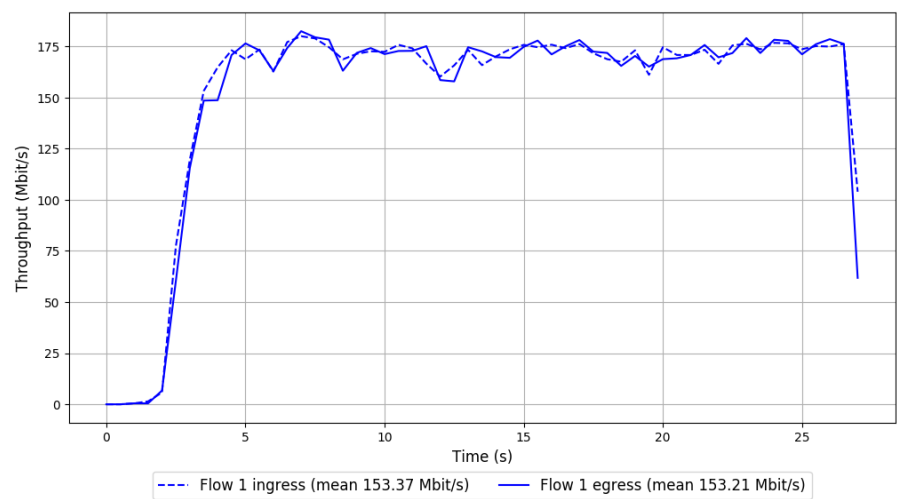


```
Run 1: Statistics of Indigo

Start at: 2017-12-11 07:28:37
End at: 2017-12-11 07:29:07

# Below is generated by plot.py at 2017-12-11 11:30:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 153.21 Mbit/s
95th percentile per-packet one-way delay: 111.807 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 153.21 Mbit/s
95th percentile per-packet one-way delay: 111.807 ms
Loss rate: 0.93%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-12-11 07:39:31

End at: 2017-12-11 07:40:01

Below is generated by plot.py at 2017-12-11 11:31:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.94 Mbit/s

95th percentile per-packet one-way delay: 111.708 ms

Loss rate: 0.82%

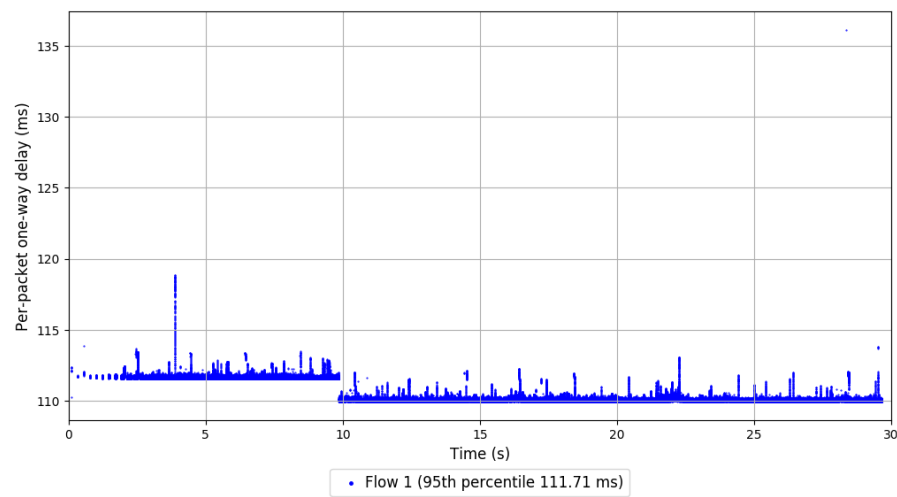
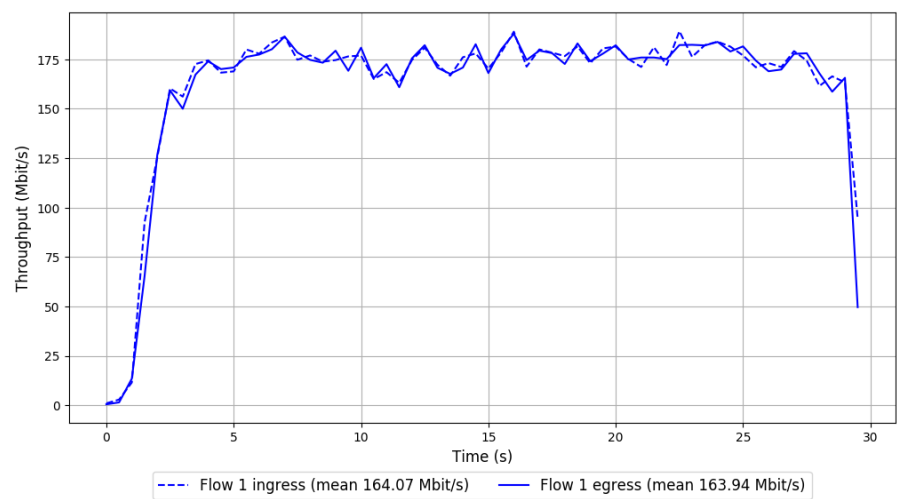
-- Flow 1:

Average throughput: 163.94 Mbit/s

95th percentile per-packet one-way delay: 111.708 ms

Loss rate: 0.82%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-12-11 07:50:37

End at: 2017-12-11 07:51:07

Below is generated by plot.py at 2017-12-11 11:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.93 Mbit/s

95th percentile per-packet one-way delay: 112.772 ms

Loss rate: 0.79%

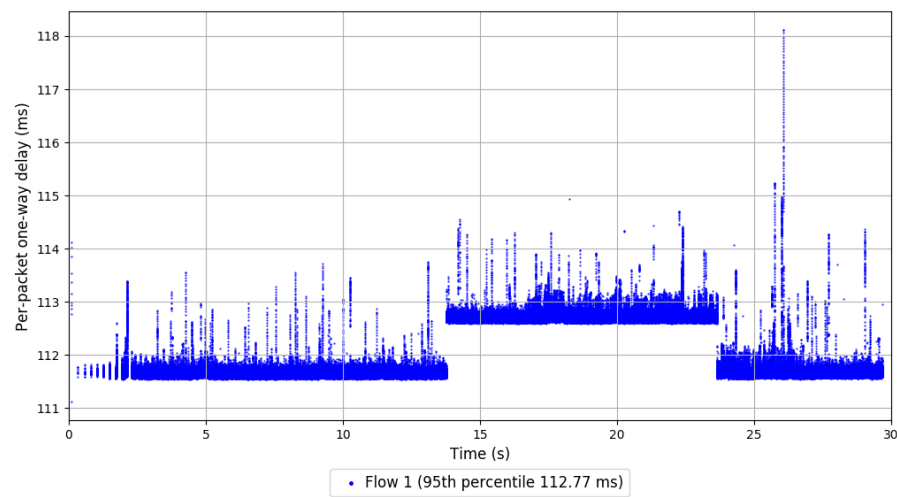
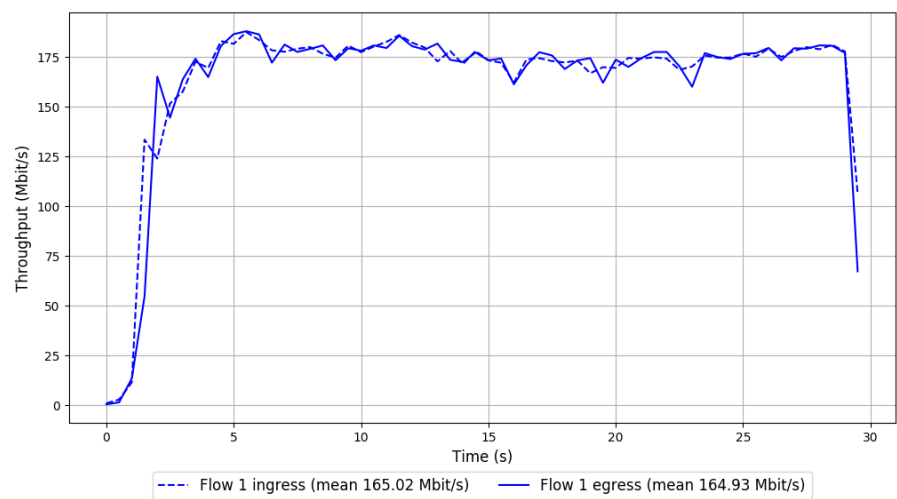
-- Flow 1:

Average throughput: 164.93 Mbit/s

95th percentile per-packet one-way delay: 112.772 ms

Loss rate: 0.79%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-12-11 08:01:45

End at: 2017-12-11 08:02:15

Below is generated by plot.py at 2017-12-11 11:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.91 Mbit/s

95th percentile per-packet one-way delay: 112.934 ms

Loss rate: 0.93%

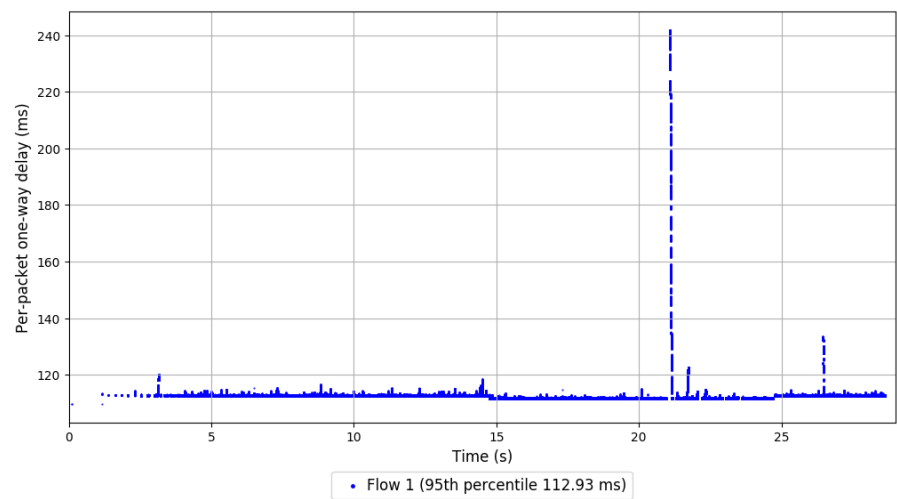
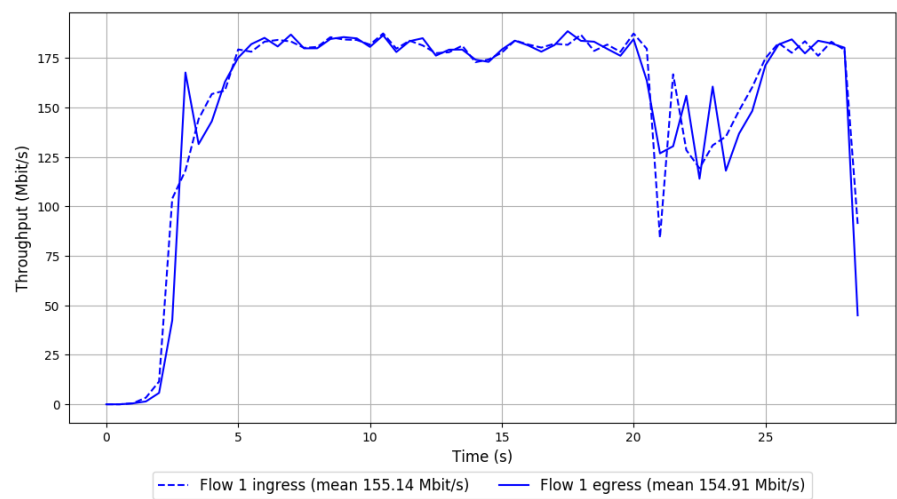
-- Flow 1:

Average throughput: 154.91 Mbit/s

95th percentile per-packet one-way delay: 112.934 ms

Loss rate: 0.93%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-12-11 08:12:39

End at: 2017-12-11 08:13:09

Below is generated by plot.py at 2017-12-11 11:31:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.56 Mbit/s

95th percentile per-packet one-way delay: 112.839 ms

Loss rate: 0.83%

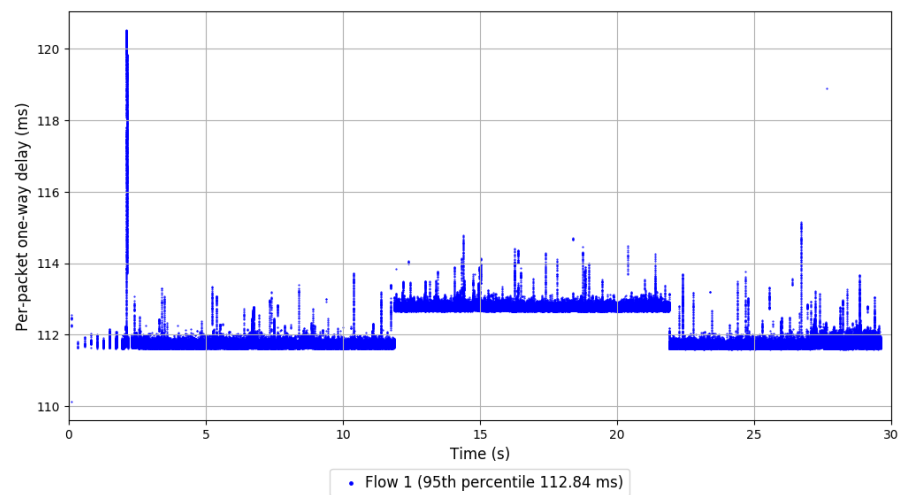
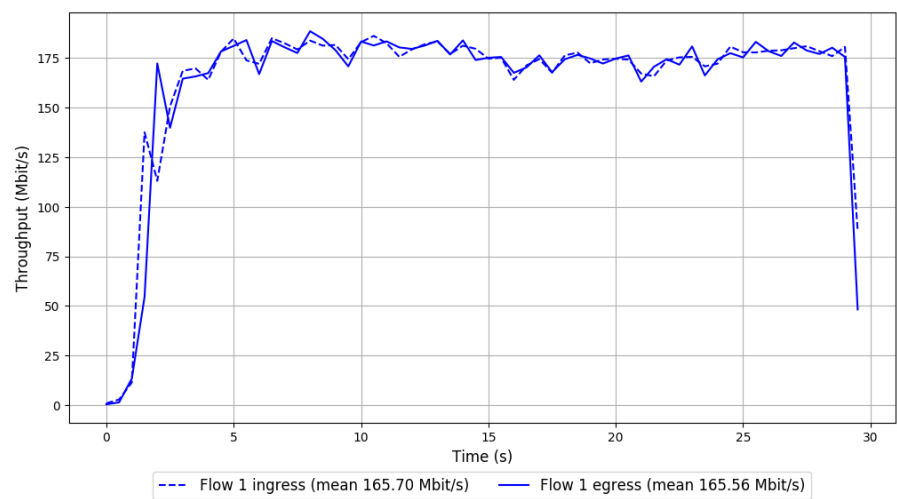
-- Flow 1:

Average throughput: 165.56 Mbit/s

95th percentile per-packet one-way delay: 112.839 ms

Loss rate: 0.83%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-12-11 08:23:38

End at: 2017-12-11 08:24:08

Below is generated by plot.py at 2017-12-11 11:31:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.89 Mbit/s

95th percentile per-packet one-way delay: 113.146 ms

Loss rate: 0.79%

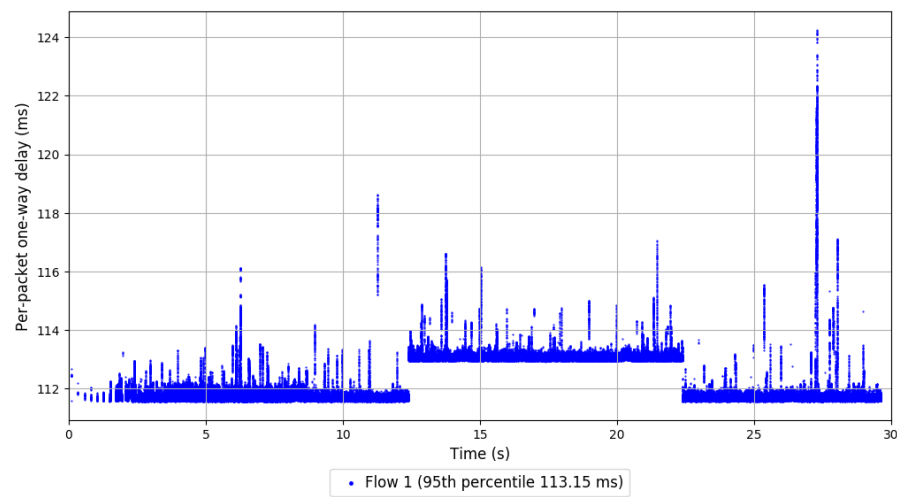
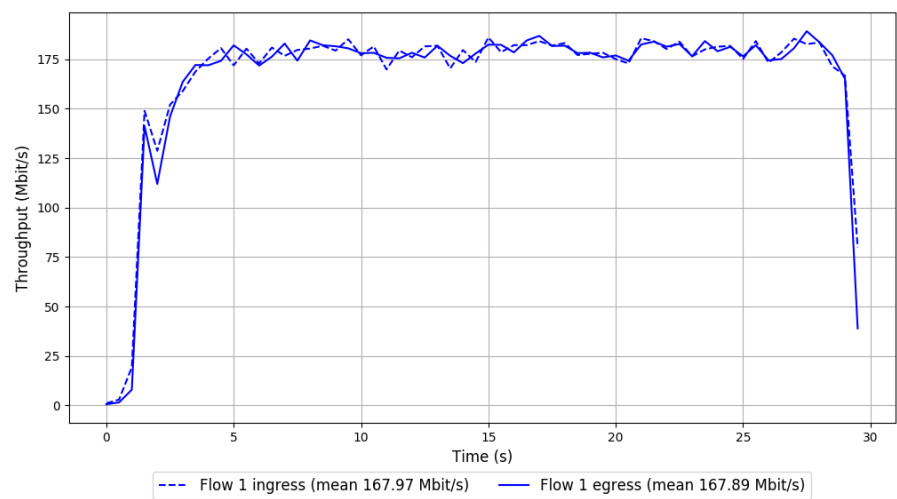
-- Flow 1:

Average throughput: 167.89 Mbit/s

95th percentile per-packet one-way delay: 113.146 ms

Loss rate: 0.79%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-12-11 08:34:46

End at: 2017-12-11 08:35:16

Below is generated by plot.py at 2017-12-11 11:31:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.48 Mbit/s

95th percentile per-packet one-way delay: 113.022 ms

Loss rate: 0.81%

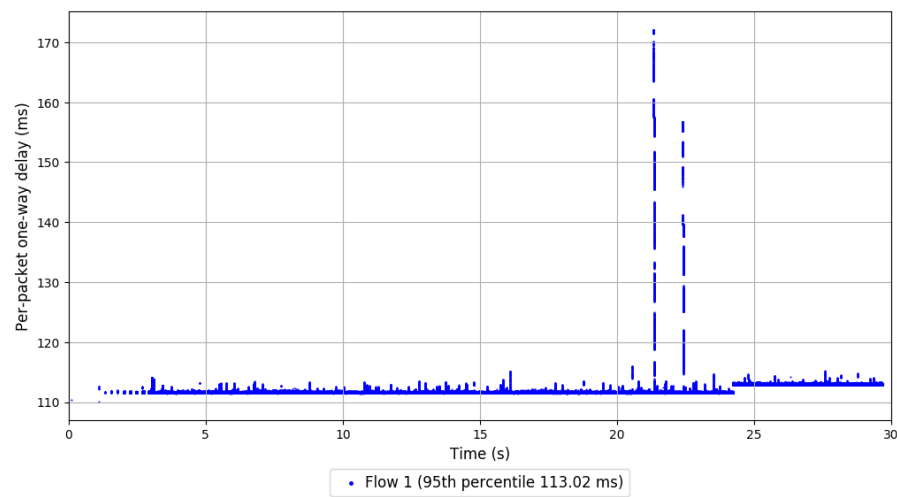
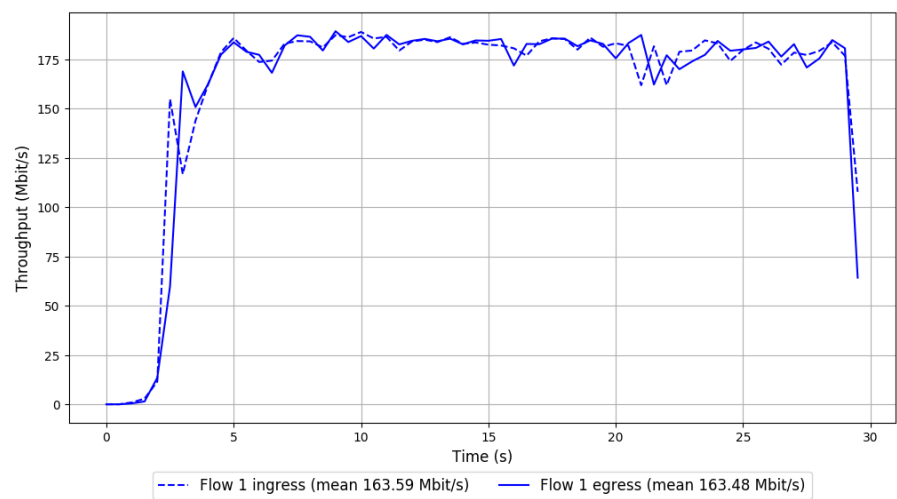
-- Flow 1:

Average throughput: 163.48 Mbit/s

95th percentile per-packet one-way delay: 113.022 ms

Loss rate: 0.81%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-12-11 08:46:00

End at: 2017-12-11 08:46:30

Below is generated by plot.py at 2017-12-11 11:32:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.89 Mbit/s

95th percentile per-packet one-way delay: 112.861 ms

Loss rate: 1.35%

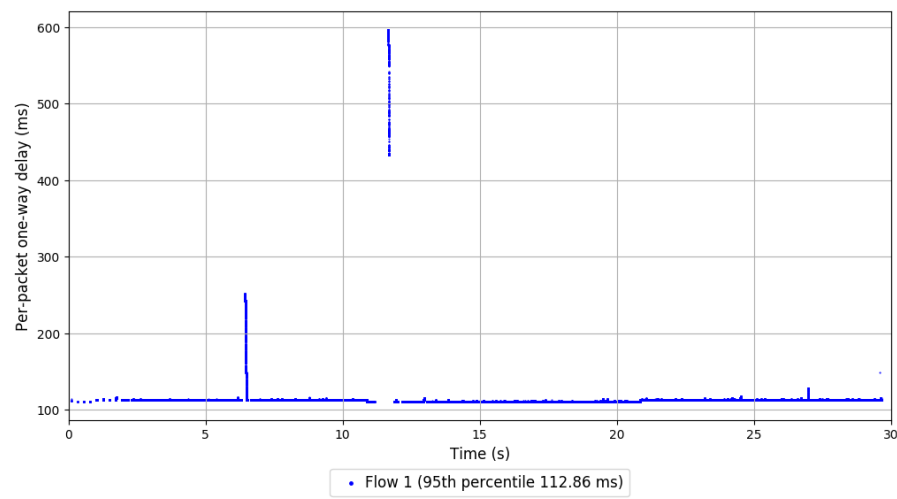
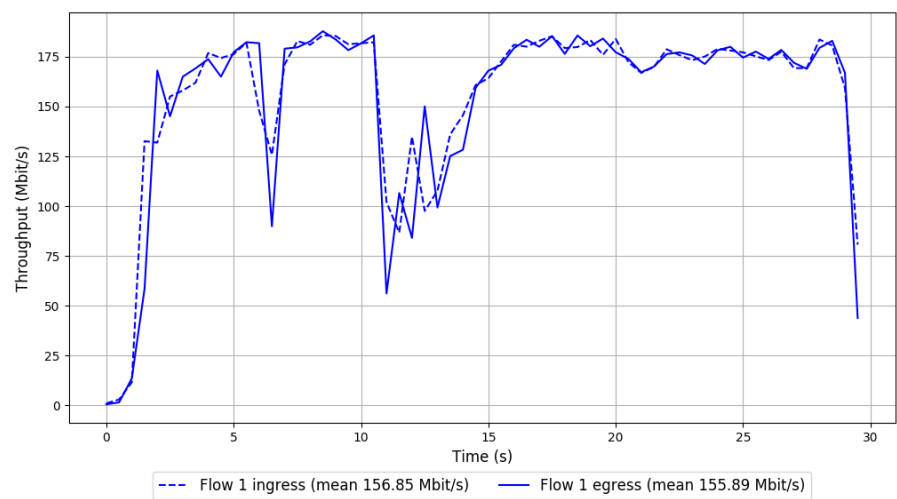
-- Flow 1:

Average throughput: 155.89 Mbit/s

95th percentile per-packet one-way delay: 112.861 ms

Loss rate: 1.35%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2017-12-11 08:57:01

End at: 2017-12-11 08:57:31

Below is generated by plot.py at 2017-12-11 11:33:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.59 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 1.24%

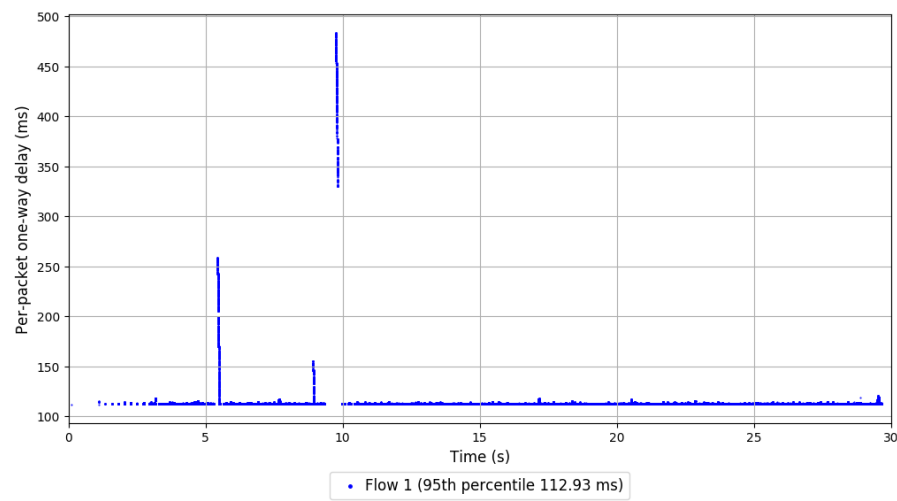
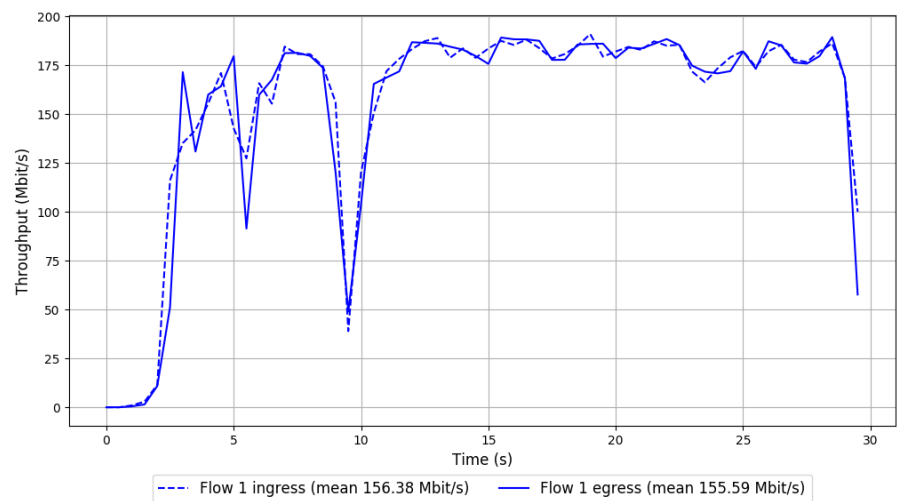
-- Flow 1:

Average throughput: 155.59 Mbit/s

95th percentile per-packet one-way delay: 112.930 ms

Loss rate: 1.24%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-12-11 09:08:09

End at: 2017-12-11 09:08:39

Below is generated by plot.py at 2017-12-11 11:33:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.96 Mbit/s

95th percentile per-packet one-way delay: 112.789 ms

Loss rate: 0.75%

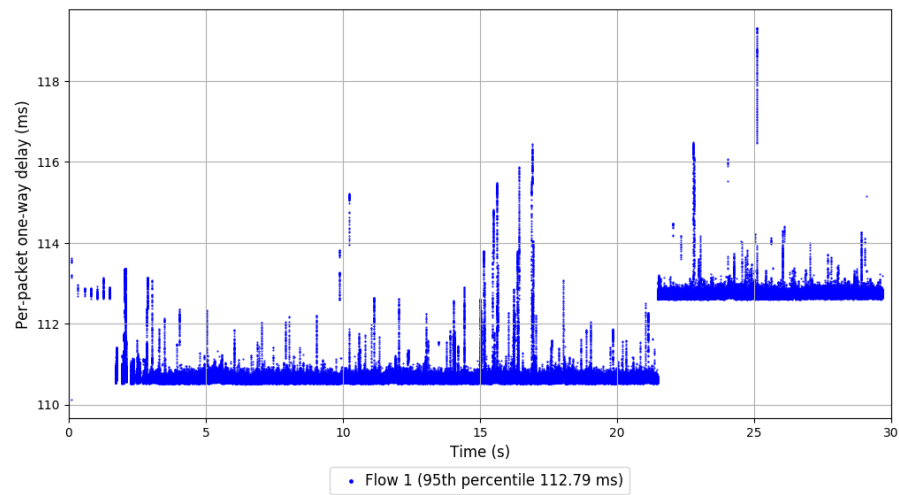
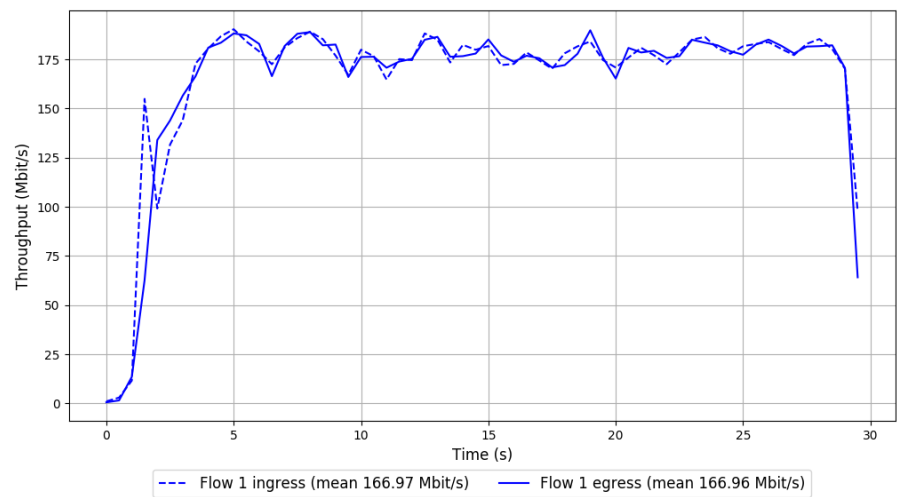
-- Flow 1:

Average throughput: 166.96 Mbit/s

95th percentile per-packet one-way delay: 112.789 ms

Loss rate: 0.75%

Run 10: Report of Indigo — Data Link

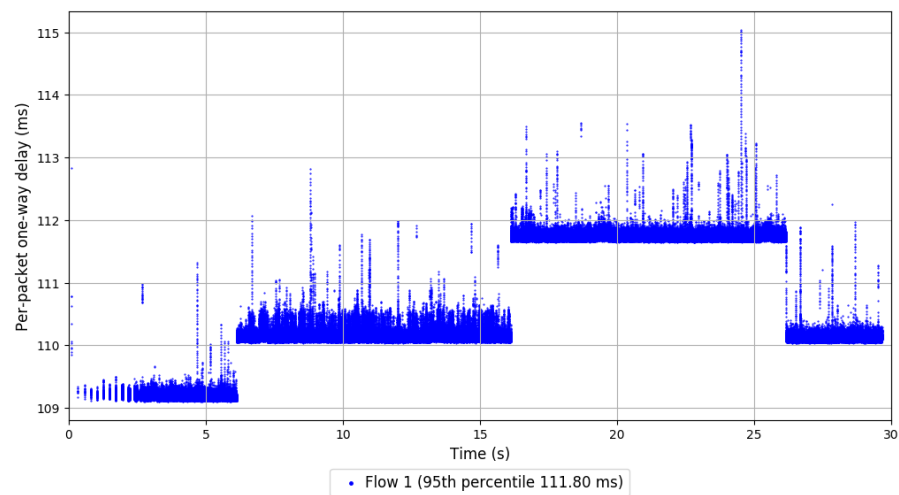
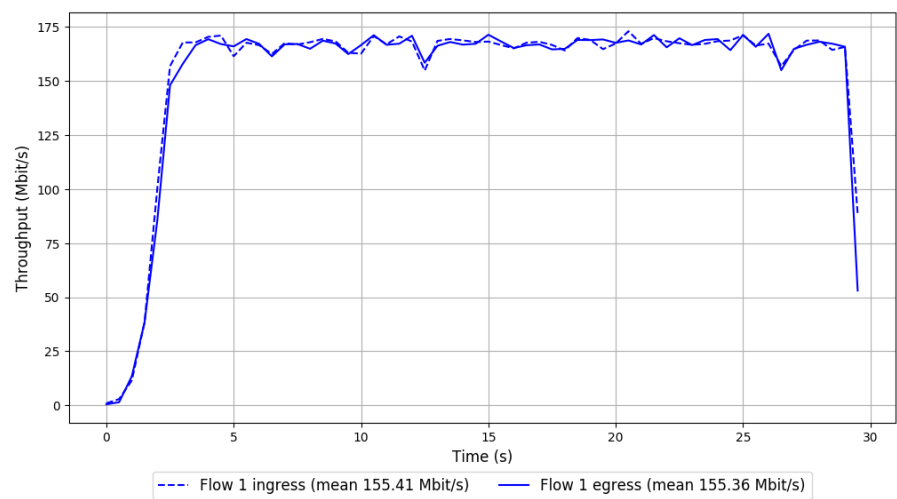


```
Run 1: Statistics of Indigo-calib

Start at: 2017-12-11 07:30:54
End at: 2017-12-11 07:31:24

# Below is generated by plot.py at 2017-12-11 11:33:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 155.36 Mbit/s
95th percentile per-packet one-way delay: 111.802 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 155.36 Mbit/s
95th percentile per-packet one-way delay: 111.802 ms
Loss rate: 0.78%
```

Run 1: Report of Indigo-calib — Data Link

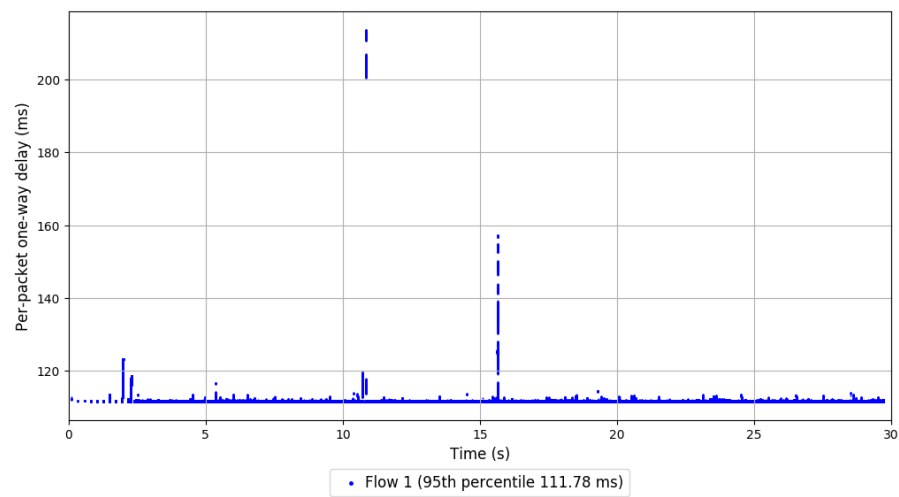
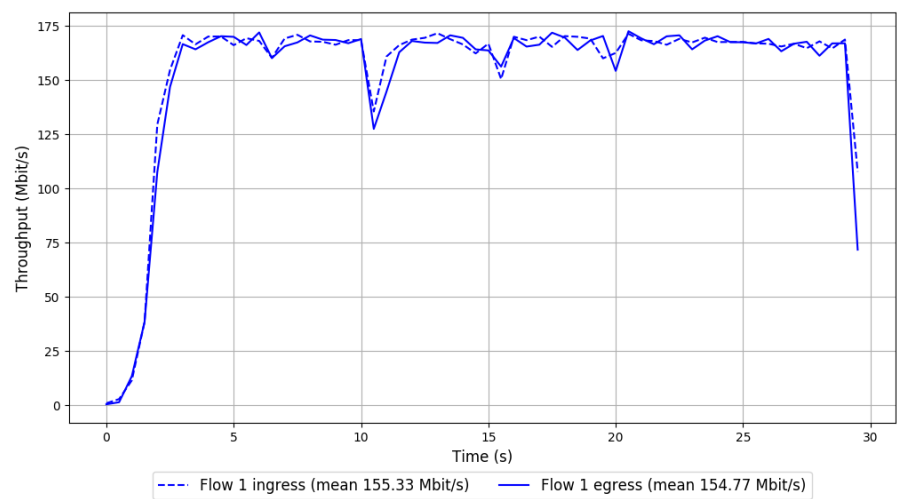


```
Run 2: Statistics of Indigo-calib

Start at: 2017-12-11 07:41:49
End at: 2017-12-11 07:42:19

# Below is generated by plot.py at 2017-12-11 11:33:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.77 Mbit/s
95th percentile per-packet one-way delay: 111.778 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 154.77 Mbit/s
95th percentile per-packet one-way delay: 111.778 ms
Loss rate: 1.11%
```

Run 2: Report of Indigo-calib — Data Link

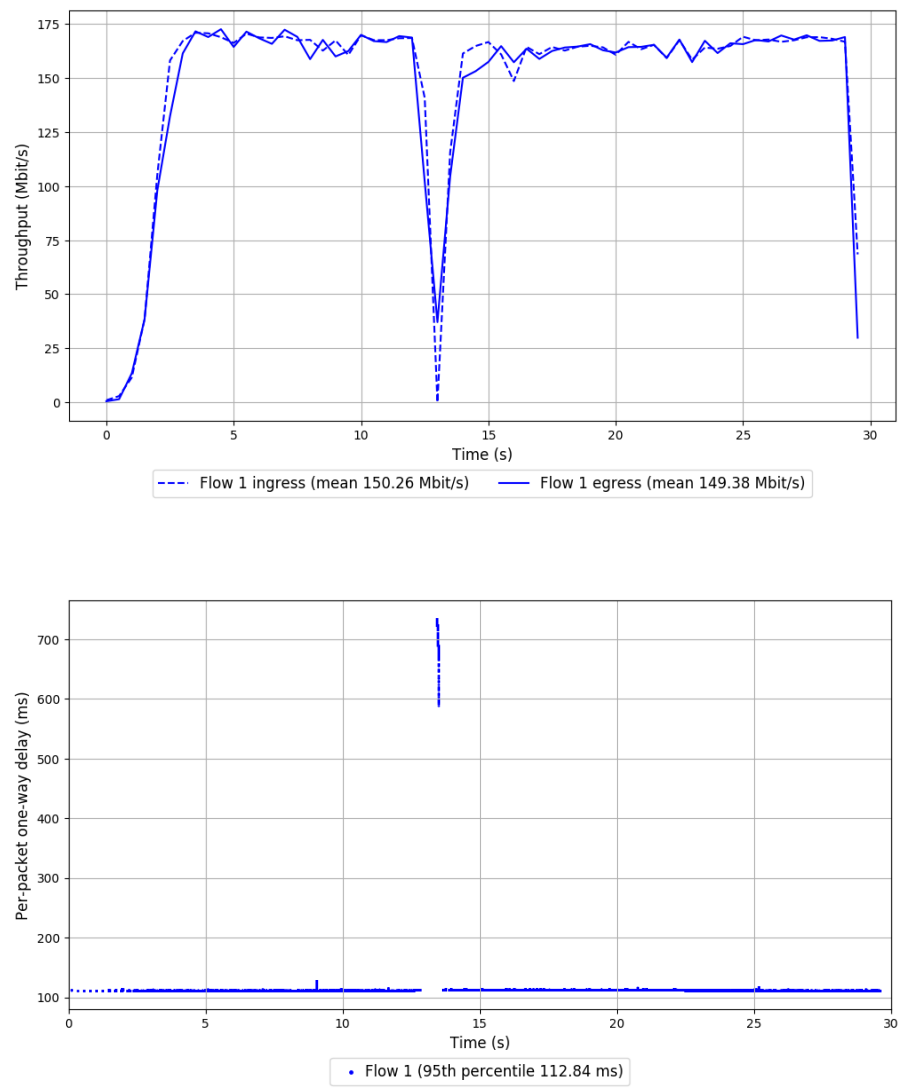


```
Run 3: Statistics of Indigo-calib

Start at: 2017-12-11 07:52:58
End at: 2017-12-11 07:53:28

# Below is generated by plot.py at 2017-12-11 11:34:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 149.38 Mbit/s
95th percentile per-packet one-way delay: 112.841 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 149.38 Mbit/s
95th percentile per-packet one-way delay: 112.841 ms
Loss rate: 1.33%
```

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-12-11 08:04:03

End at: 2017-12-11 08:04:33

Below is generated by plot.py at 2017-12-11 11:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.85 Mbit/s

95th percentile per-packet one-way delay: 112.761 ms

Loss rate: 0.83%

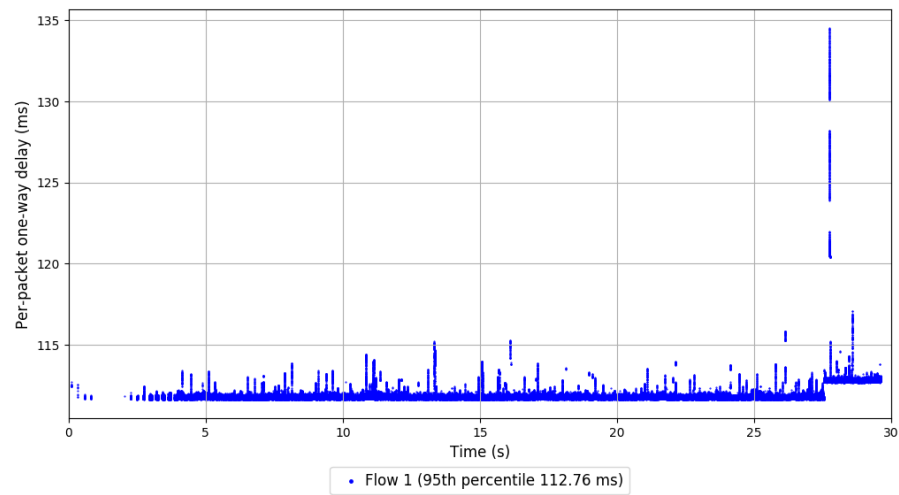
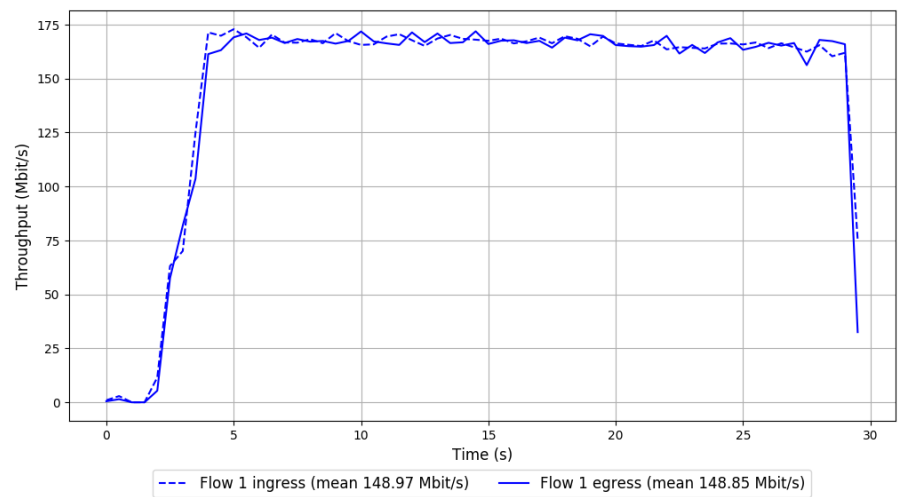
-- Flow 1:

Average throughput: 148.85 Mbit/s

95th percentile per-packet one-way delay: 112.761 ms

Loss rate: 0.83%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-12-11 08:14:58

End at: 2017-12-11 08:15:28

Below is generated by plot.py at 2017-12-11 11:34:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.92 Mbit/s

95th percentile per-packet one-way delay: 112.804 ms

Loss rate: 0.80%

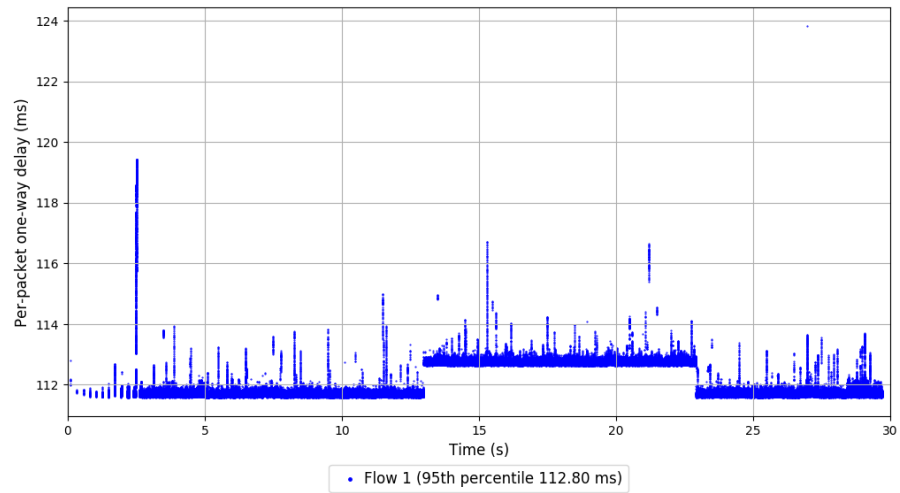
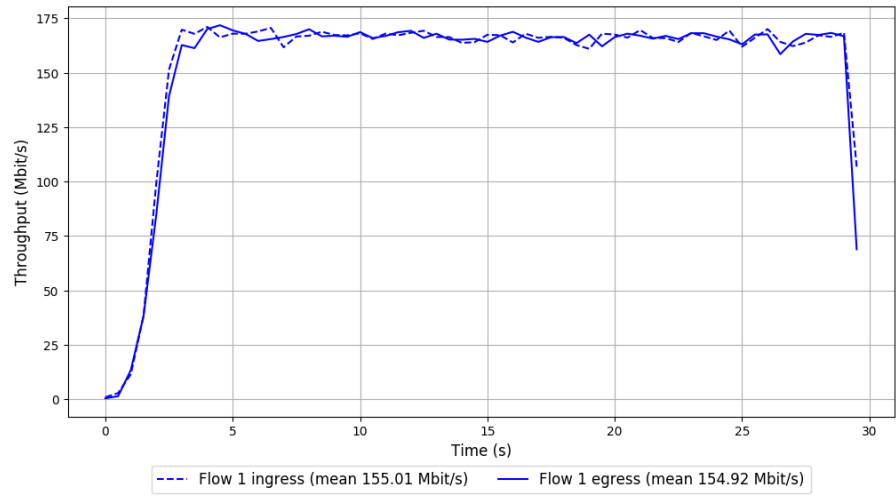
-- Flow 1:

Average throughput: 154.92 Mbit/s

95th percentile per-packet one-way delay: 112.804 ms

Loss rate: 0.80%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-12-11 08:26:00

End at: 2017-12-11 08:26:30

Below is generated by plot.py at 2017-12-11 11:34:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.73 Mbit/s

95th percentile per-packet one-way delay: 113.205 ms

Loss rate: 0.84%

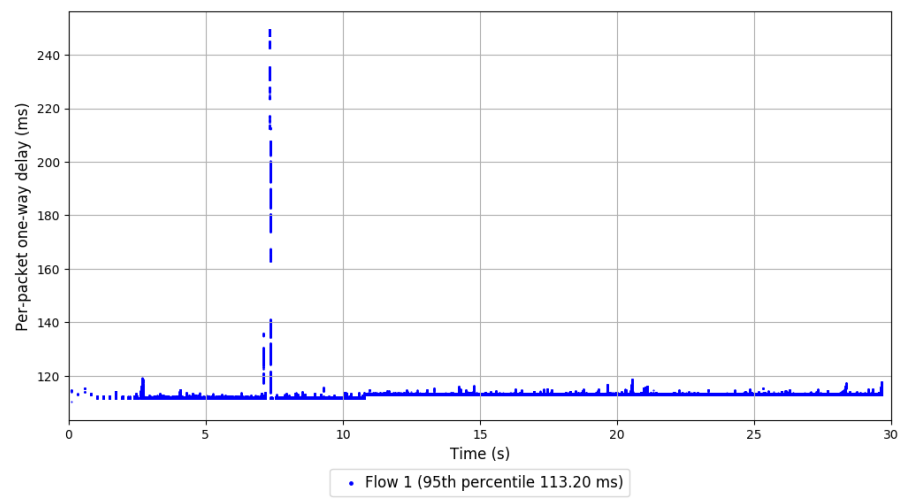
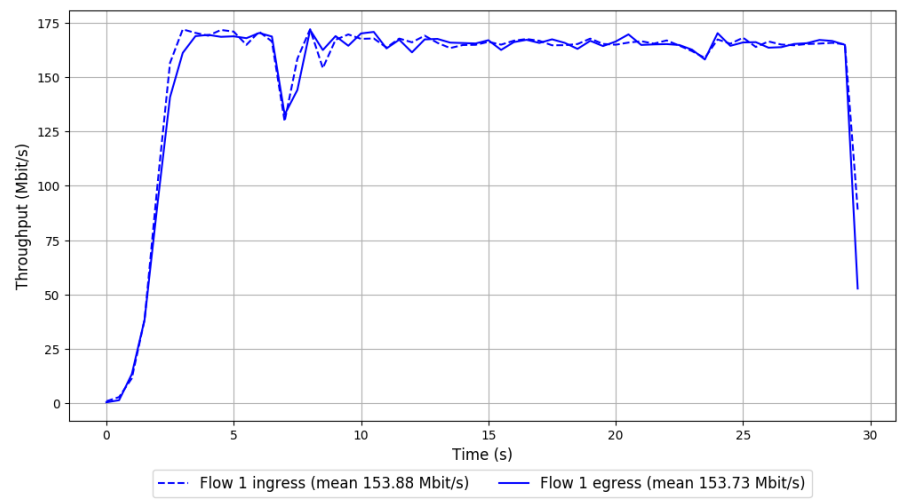
-- Flow 1:

Average throughput: 153.73 Mbit/s

95th percentile per-packet one-way delay: 113.205 ms

Loss rate: 0.84%

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

Start at: 2017-12-11 08:37:08

End at: 2017-12-11 08:37:38

Below is generated by plot.py at 2017-12-11 11:35:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.65 Mbit/s

95th percentile per-packet one-way delay: 113.055 ms

Loss rate: 0.79%

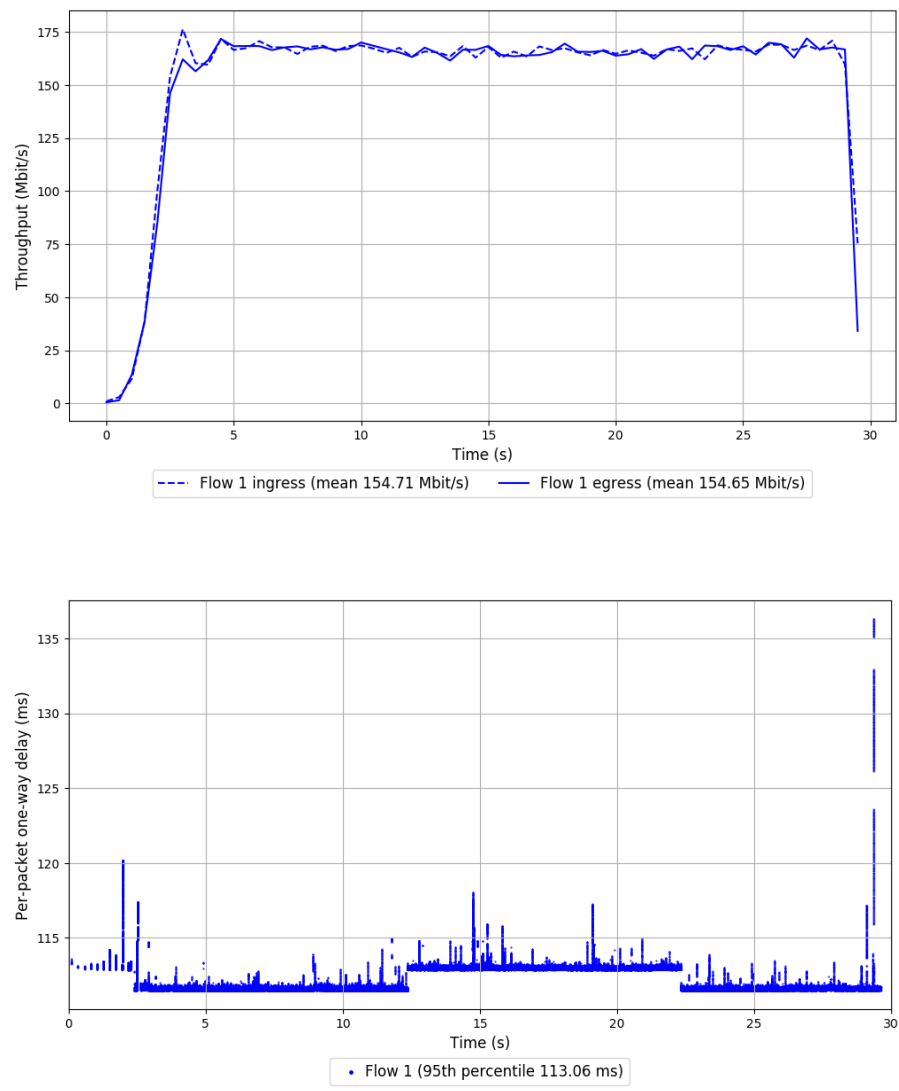
-- Flow 1:

Average throughput: 154.65 Mbit/s

95th percentile per-packet one-way delay: 113.055 ms

Loss rate: 0.79%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-12-11 08:48:19

End at: 2017-12-11 08:48:49

Below is generated by plot.py at 2017-12-11 11:35:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.81 Mbit/s

95th percentile per-packet one-way delay: 112.807 ms

Loss rate: 0.80%

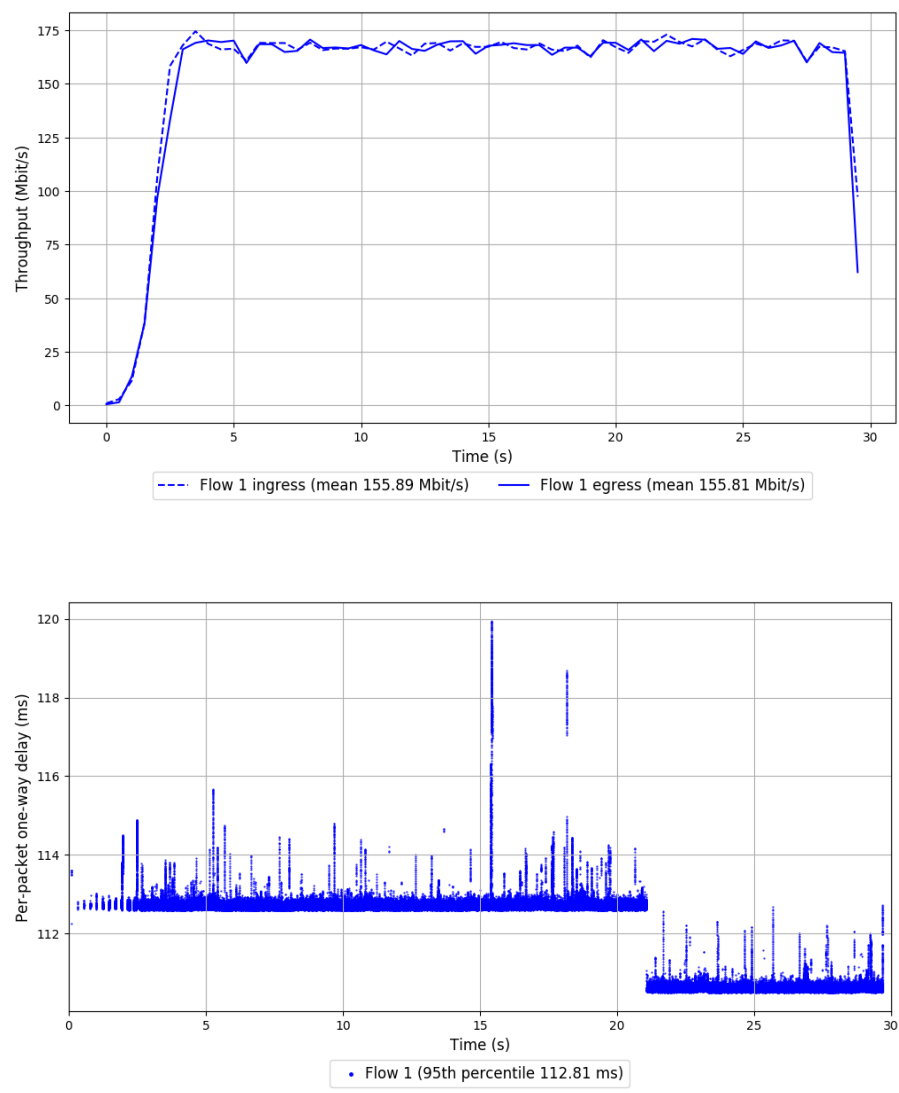
-- Flow 1:

Average throughput: 155.81 Mbit/s

95th percentile per-packet one-way delay: 112.807 ms

Loss rate: 0.80%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-12-11 08:59:22

End at: 2017-12-11 08:59:52

Below is generated by plot.py at 2017-12-11 11:35:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.44 Mbit/s

95th percentile per-packet one-way delay: 112.856 ms

Loss rate: 0.82%

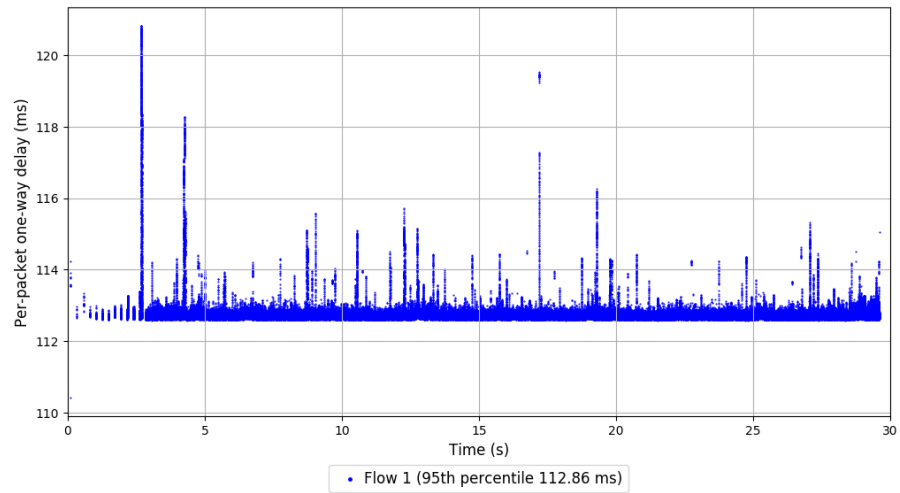
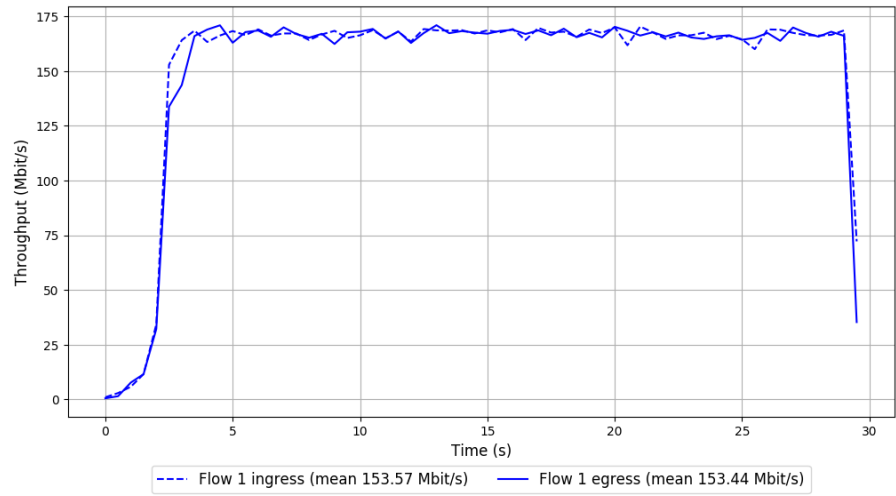
-- Flow 1:

Average throughput: 153.44 Mbit/s

95th percentile per-packet one-way delay: 112.856 ms

Loss rate: 0.82%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-12-11 09:10:29

End at: 2017-12-11 09:10:59

Below is generated by plot.py at 2017-12-11 11:35:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.80 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 151.80 Mbit/s

95th percentile per-packet one-way delay: 112.816 ms

Loss rate: 0.81%

Run 10: Report of Indigo-calib — Data Link

