

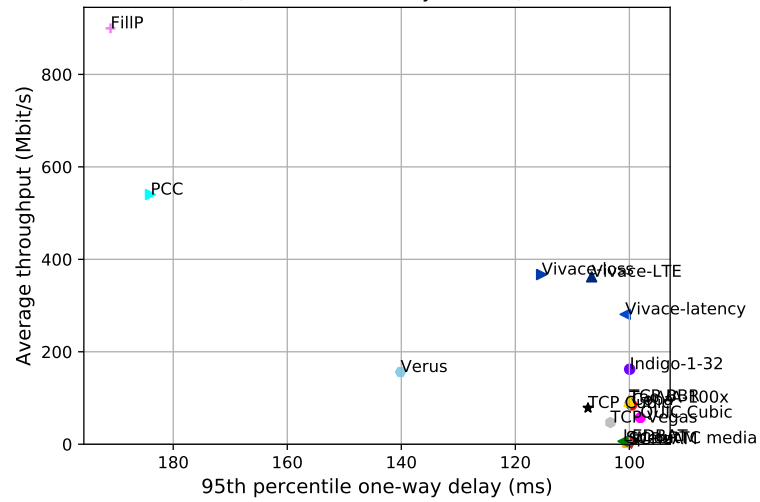
Pantheon Report

Generated at 2018-03-13 02:22:57 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE London Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

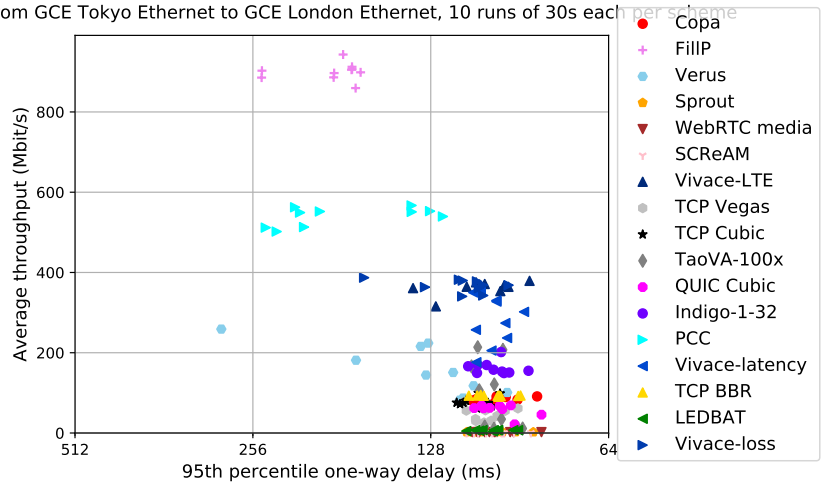
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ceec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Tokyo Ethernet to GCE 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	92.80	100.04	0.80
TCP Cubic	10	78.49	107.25	0.82
LEDBAT	10	6.35	101.13	1.51
PCC	10	540.09	183.98	2.26
QUIC Cubic	9	57.59	98.09	0.96
SCReAM	10	0.20	100.10	0.73
WebRTC media	10	2.14	99.66	0.94
Sprout	10	2.51	100.60	0.89
TaoVA-100x	10	90.07	100.00	0.72
TCP Vegas	10	46.89	103.33	0.71
Verus	10	156.28	140.13	1.60
Copa	10	85.03	99.61	0.65
FillP	10	899.70	191.00	3.54
Indigo-1-32	10	162.26	99.95	0.77
Vivace-latency	10	280.98	100.74	1.11
Vivace-loss	10	367.07	115.38	0.84
Vivace-LTE	10	362.22	106.62	0.83

Run 1: Statistics of TCP BBR

Start at: 2018-03-12 20:03:02

End at: 2018-03-12 20:03:32

Below is generated by plot.py at 2018-03-13 01:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.81 Mbit/s

95th percentile per-packet one-way delay: 104.101 ms

Loss rate: 0.78%

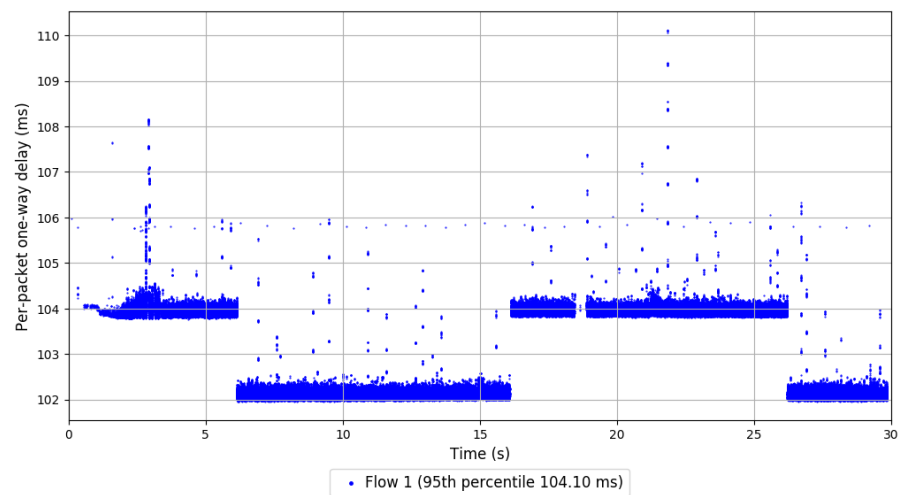
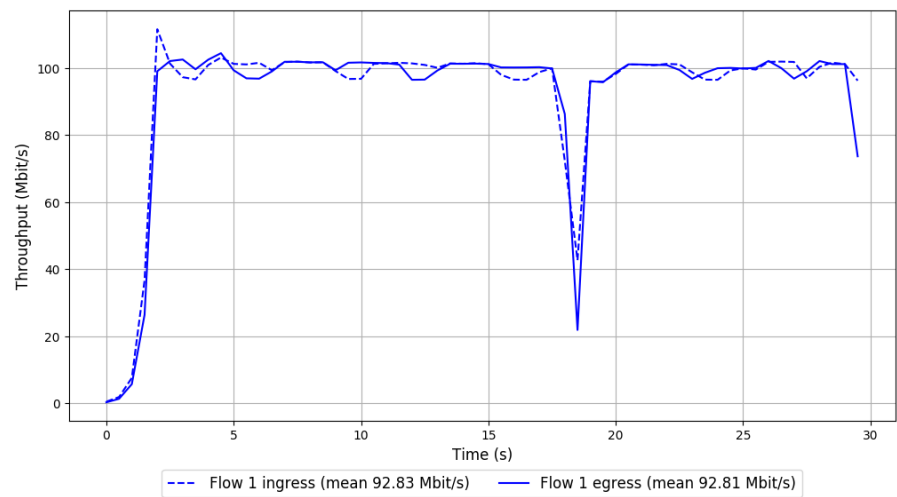
-- Flow 1:

Average throughput: 92.81 Mbit/s

95th percentile per-packet one-way delay: 104.101 ms

Loss rate: 0.78%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-12 20:18:22

End at: 2018-03-12 20:18:52

Below is generated by plot.py at 2018-03-13 01:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 98.614 ms

Loss rate: 0.78%

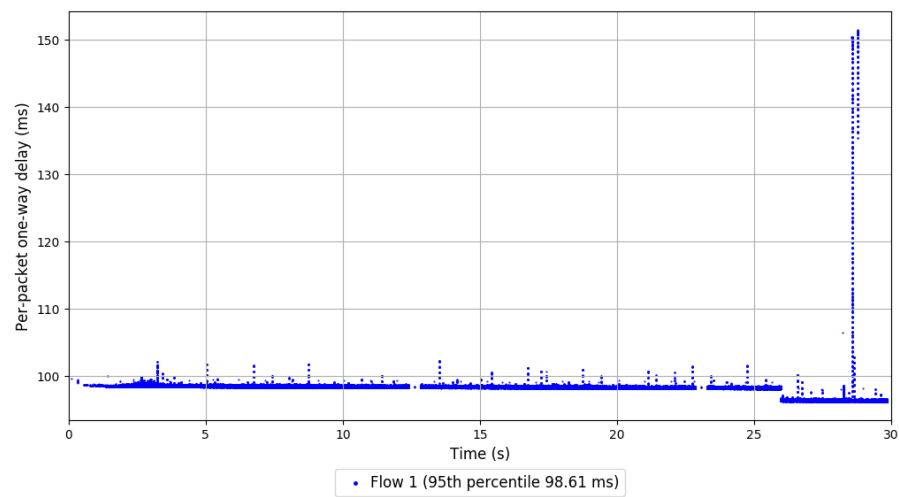
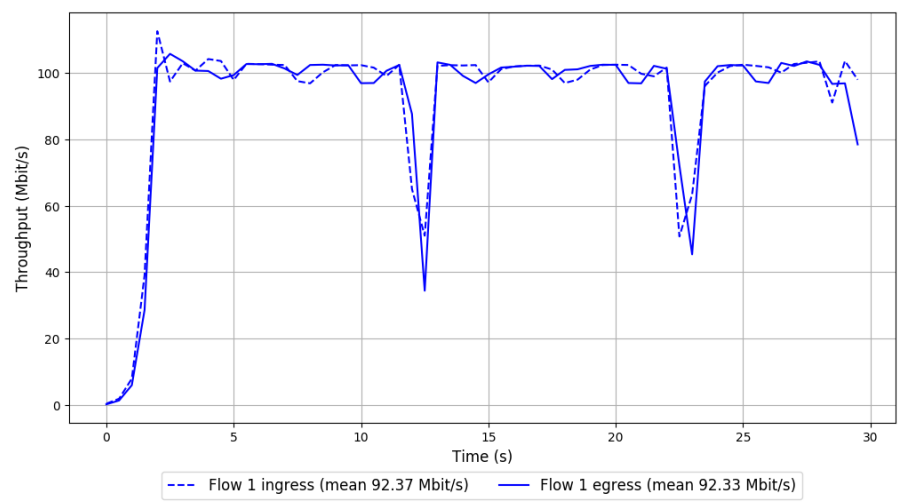
-- Flow 1:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 98.614 ms

Loss rate: 0.78%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-12 20:33:51

End at: 2018-03-12 20:34:21

Below is generated by plot.py at 2018-03-13 01:13:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 97.461 ms

Loss rate: 0.82%

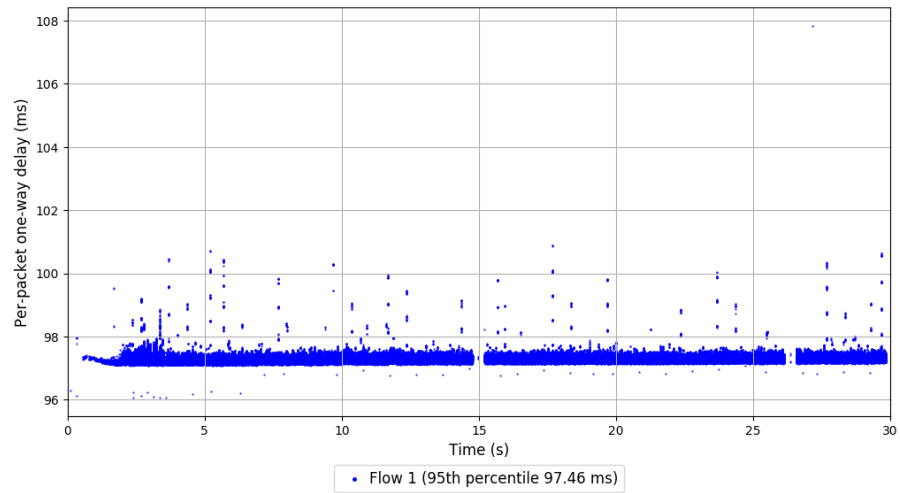
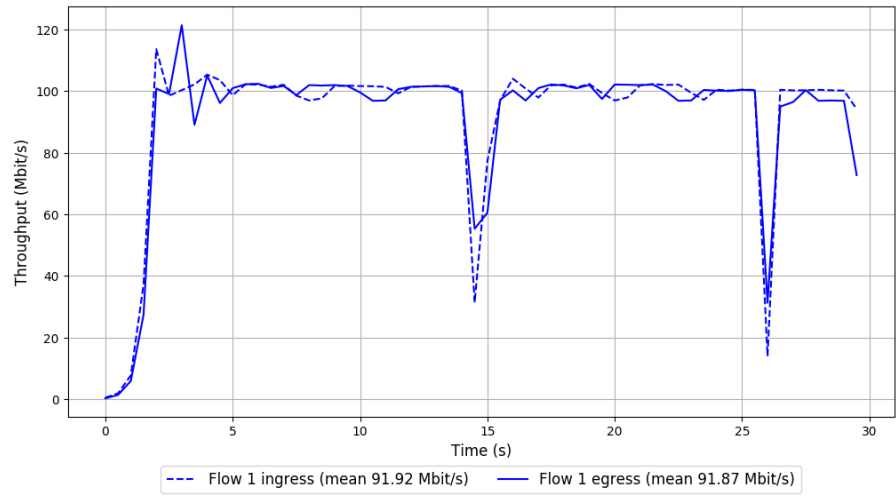
-- Flow 1:

Average throughput: 91.87 Mbit/s

95th percentile per-packet one-way delay: 97.461 ms

Loss rate: 0.82%

Run 3: Report of TCP BBR — Data Link

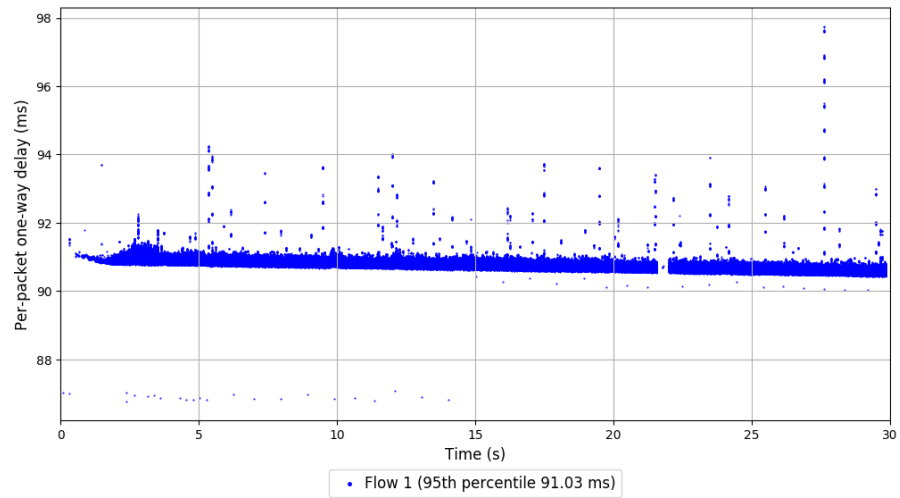
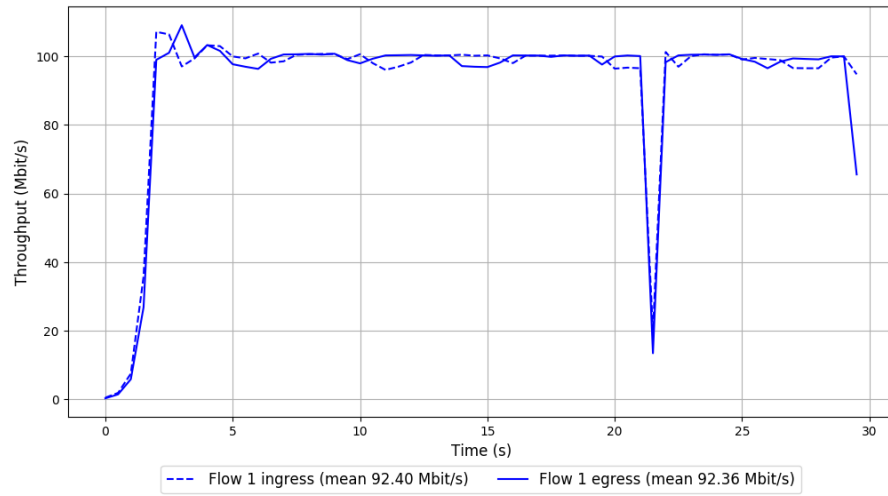


```
Run 4: Statistics of TCP BBR

Start at: 2018-03-12 20:49:13
End at: 2018-03-12 20:49:43

# Below is generated by plot.py at 2018-03-13 01:13:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 91.026 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 92.36 Mbit/s
95th percentile per-packet one-way delay: 91.026 ms
Loss rate: 0.78%
```

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-12 21:04:37

End at: 2018-03-12 21:05:07

Below is generated by plot.py at 2018-03-13 01:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 90.215 ms

Loss rate: 0.79%

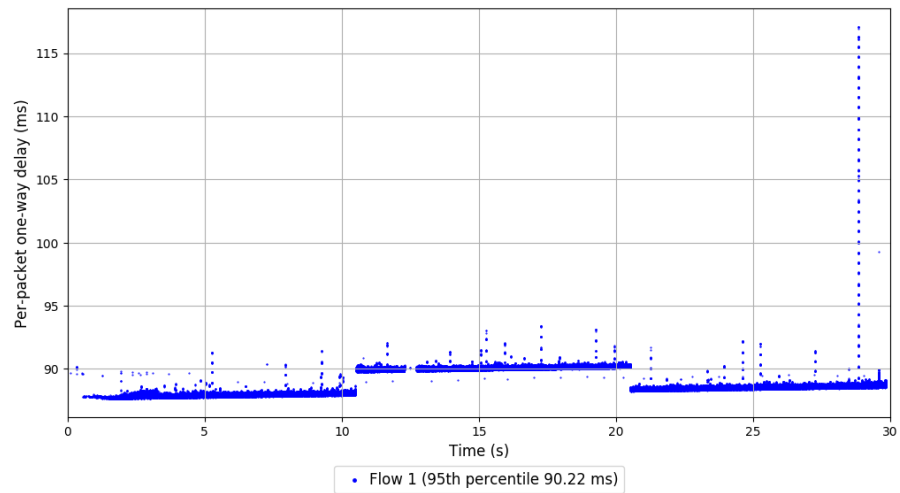
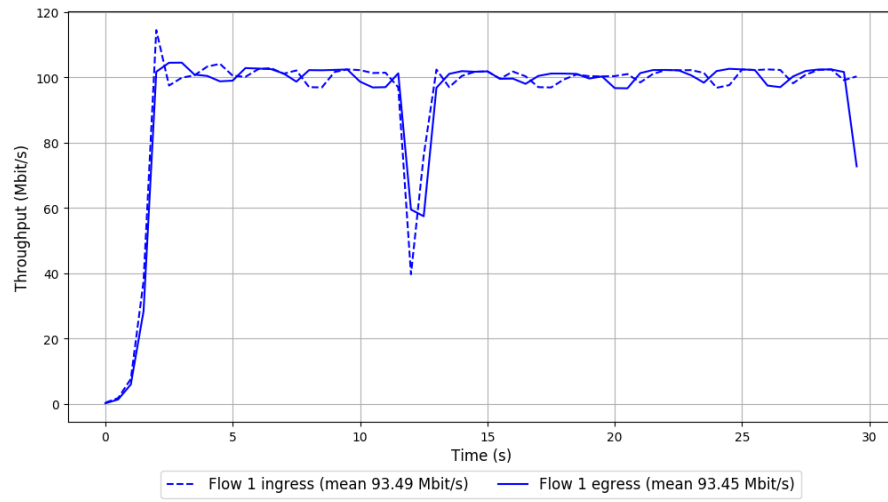
-- Flow 1:

Average throughput: 93.45 Mbit/s

95th percentile per-packet one-way delay: 90.215 ms

Loss rate: 0.79%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-12 21:20:13

End at: 2018-03-12 21:20:43

Below is generated by plot.py at 2018-03-13 01:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.49 Mbit/s

95th percentile per-packet one-way delay: 98.092 ms

Loss rate: 0.78%

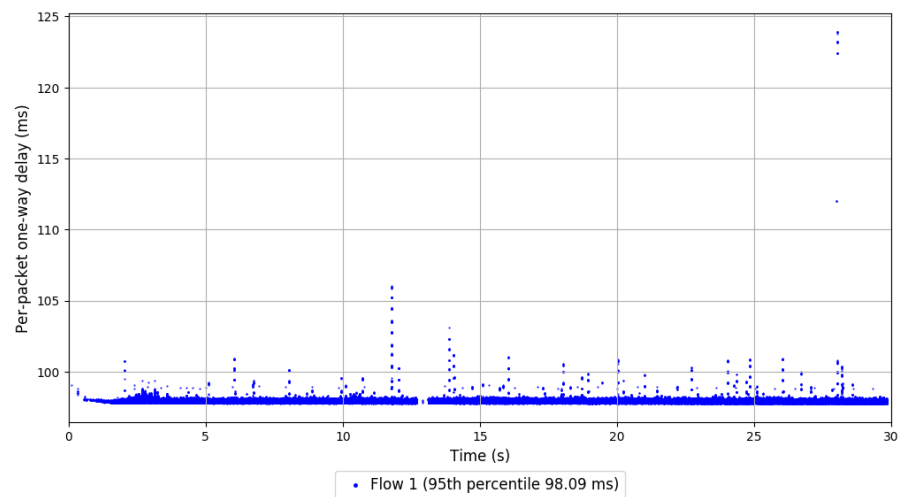
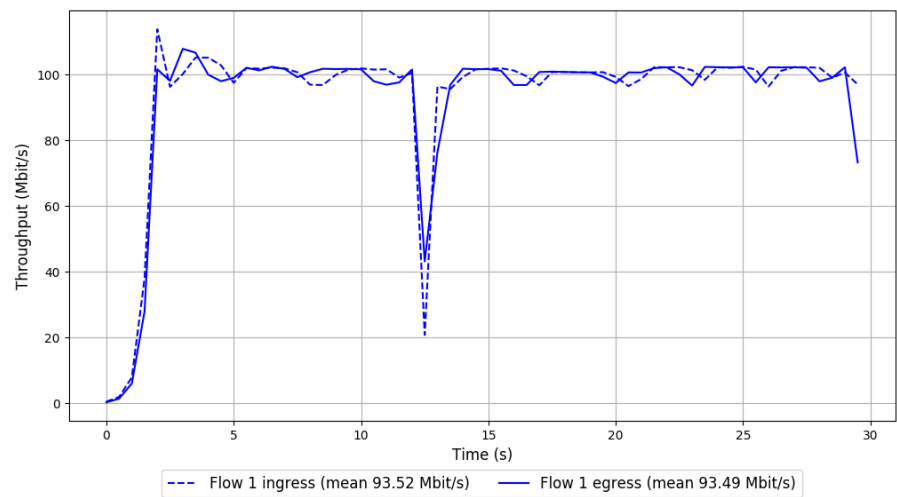
-- Flow 1:

Average throughput: 93.49 Mbit/s

95th percentile per-packet one-way delay: 98.092 ms

Loss rate: 0.78%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-12 21:35:50

End at: 2018-03-12 21:36:20

Below is generated by plot.py at 2018-03-13 01:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 98.338 ms

Loss rate: 0.84%

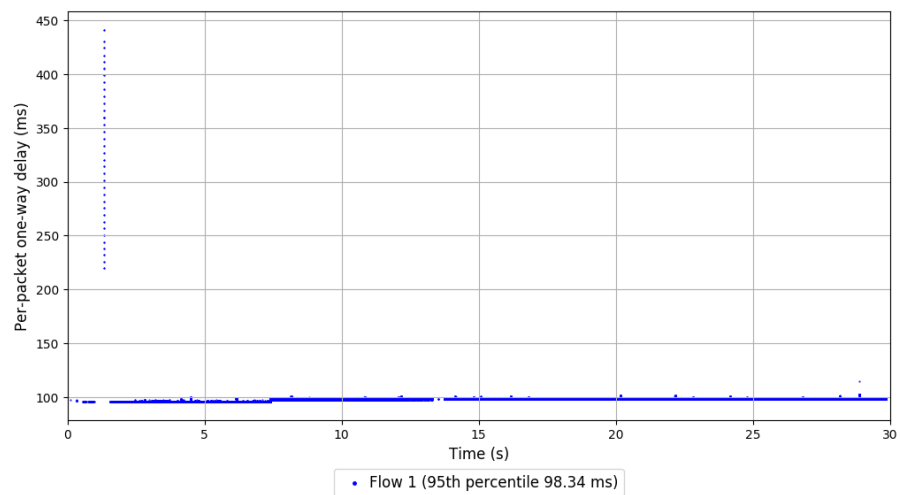
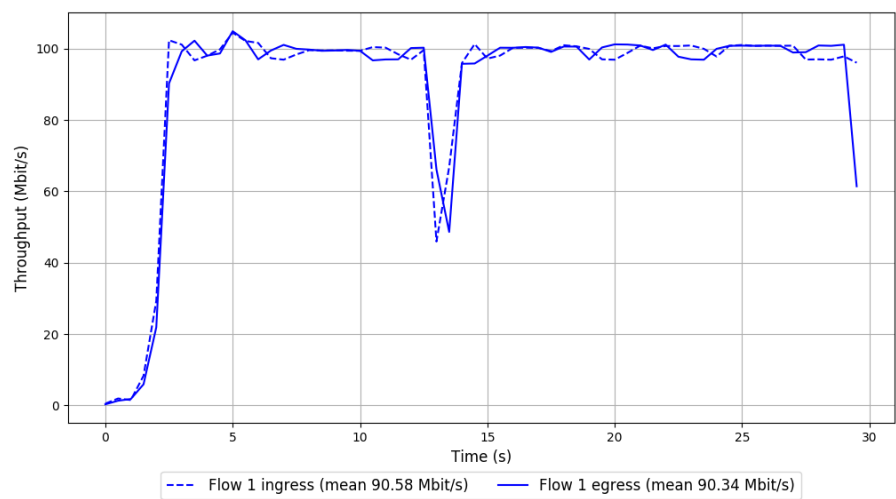
-- Flow 1:

Average throughput: 90.34 Mbit/s

95th percentile per-packet one-way delay: 98.338 ms

Loss rate: 0.84%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-12 21:51:45

End at: 2018-03-12 21:52:15

Below is generated by plot.py at 2018-03-13 01:13:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 106.785 ms

Loss rate: 0.77%

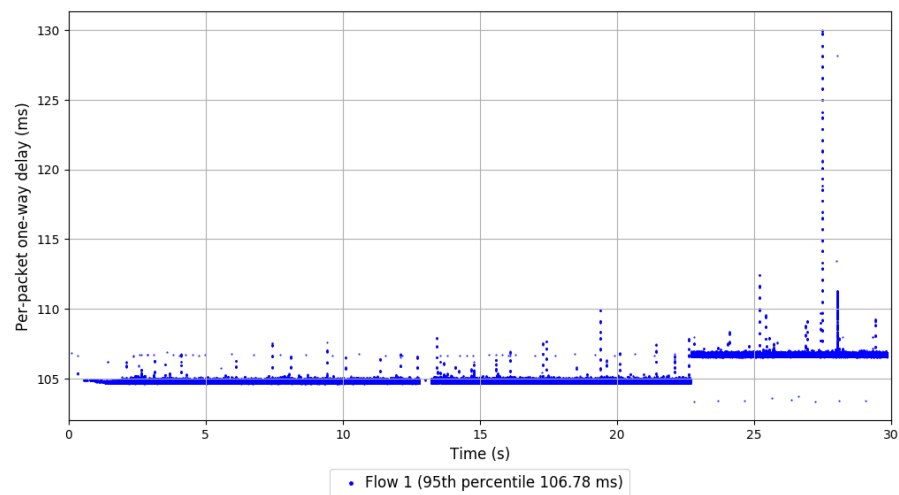
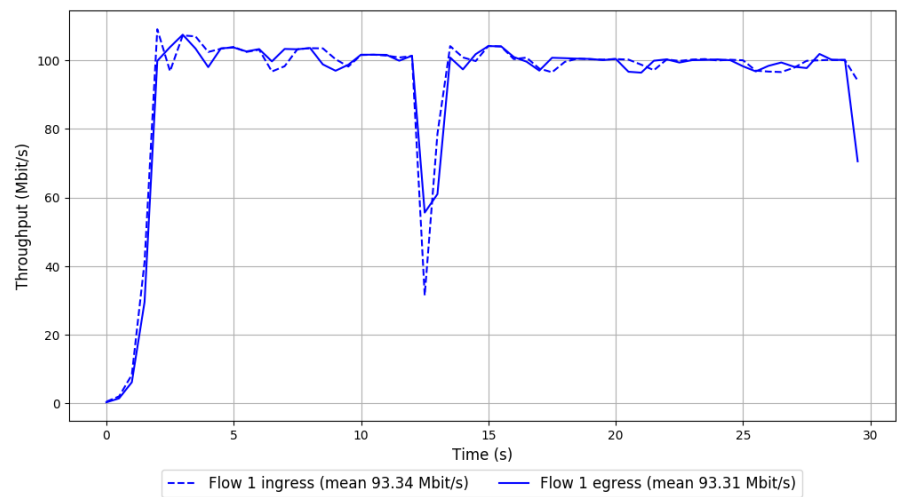
-- Flow 1:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 106.785 ms

Loss rate: 0.77%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-12 22:07:17

End at: 2018-03-12 22:07:47

Below is generated by plot.py at 2018-03-13 01:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 105.360 ms

Loss rate: 0.76%

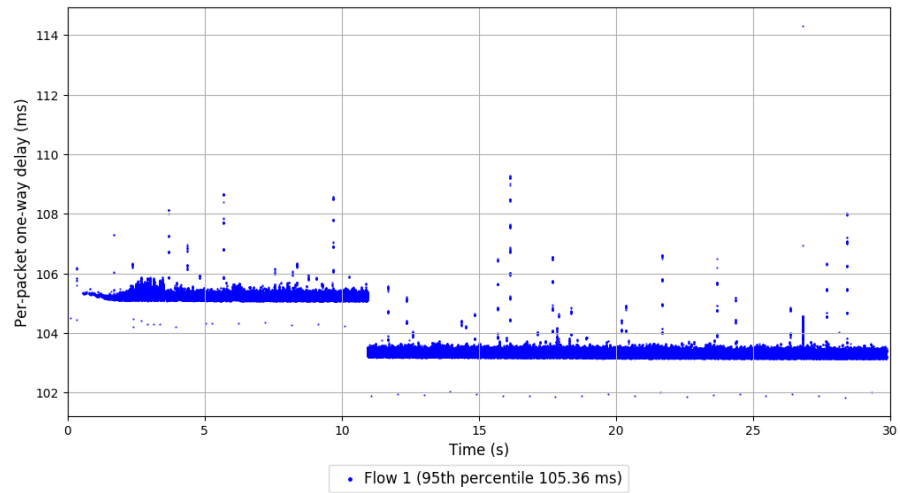
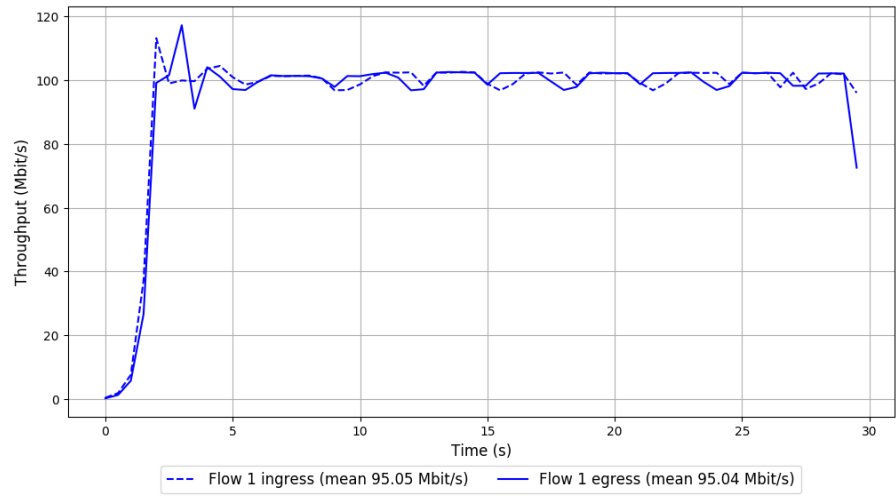
-- Flow 1:

Average throughput: 95.04 Mbit/s

95th percentile per-packet one-way delay: 105.360 ms

Loss rate: 0.76%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-12 22:22:55

End at: 2018-03-12 22:23:25

Below is generated by plot.py at 2018-03-13 01:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 110.376 ms

Loss rate: 0.86%

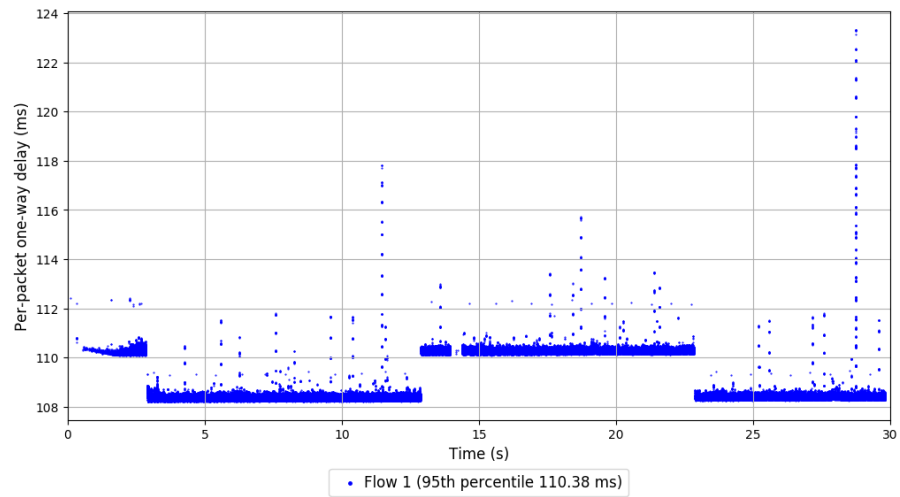
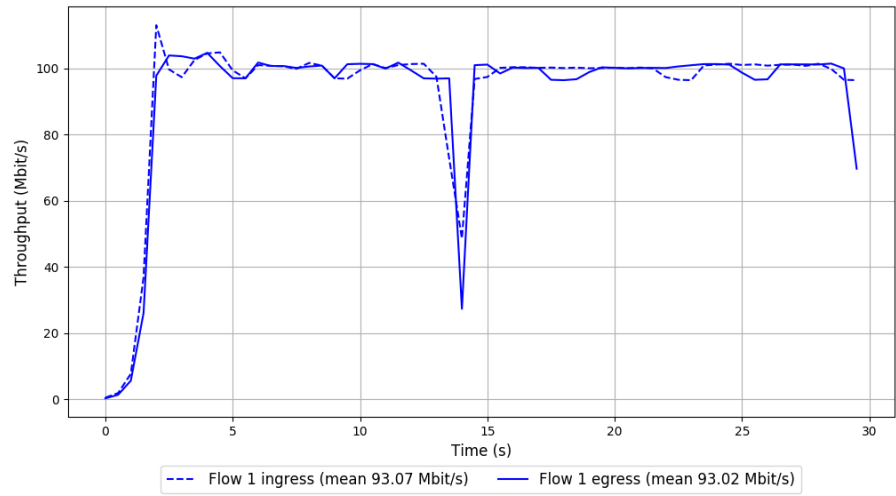
-- Flow 1:

Average throughput: 93.02 Mbit/s

95th percentile per-packet one-way delay: 110.376 ms

Loss rate: 0.86%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-12 20:06:36

End at: 2018-03-12 20:07:06

Below is generated by plot.py at 2018-03-13 01:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 106.844 ms

Loss rate: 1.33%

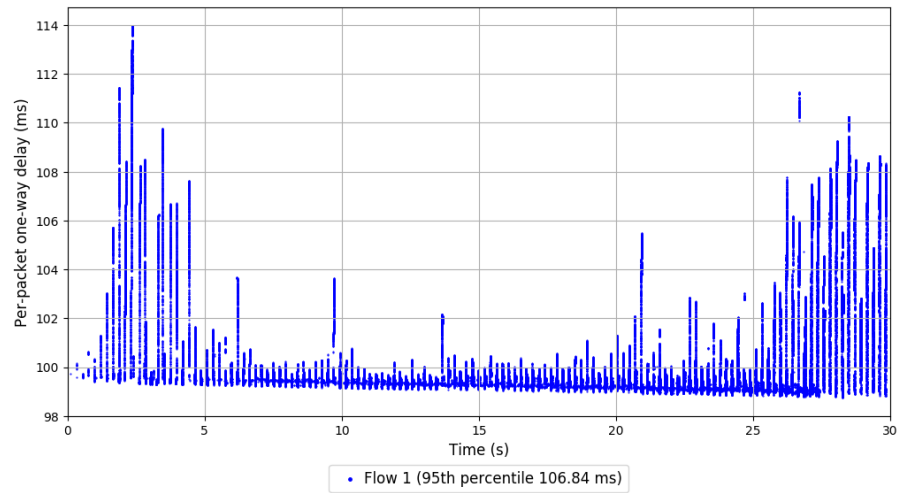
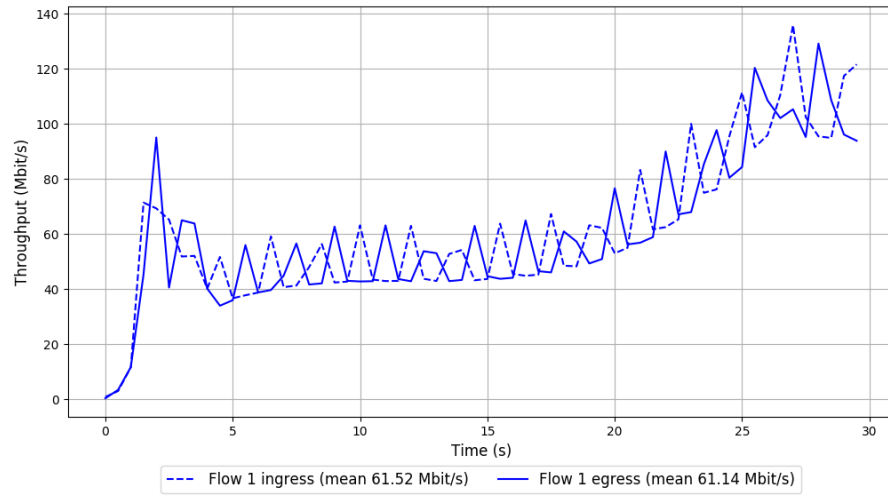
-- Flow 1:

Average throughput: 61.14 Mbit/s

95th percentile per-packet one-way delay: 106.844 ms

Loss rate: 1.33%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-12 20:21:59

End at: 2018-03-12 20:22:29

Below is generated by plot.py at 2018-03-13 01:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 100.937 ms

Loss rate: 1.17%

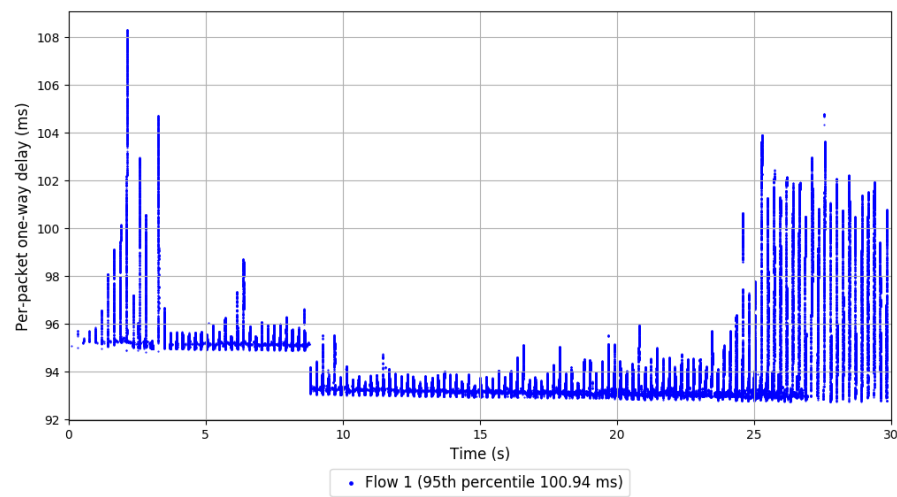
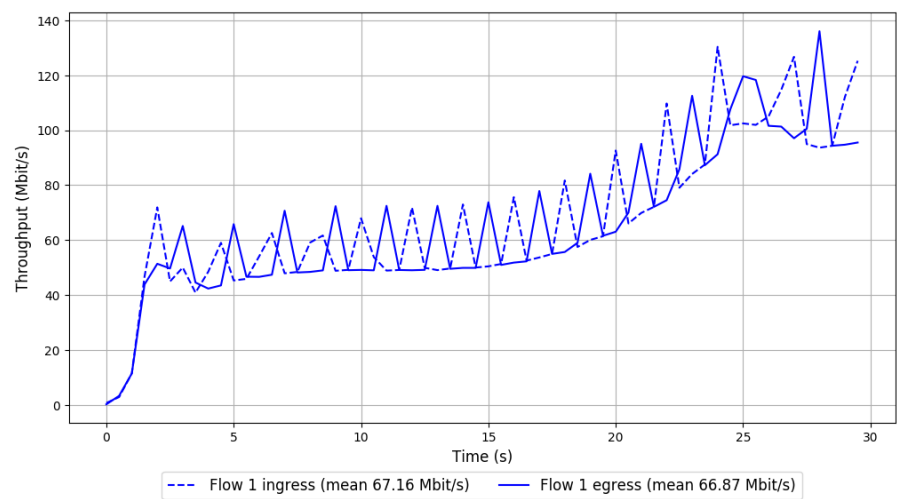
-- Flow 1:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 100.937 ms

Loss rate: 1.17%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-12 20:37:24

End at: 2018-03-12 20:37:54

Below is generated by plot.py at 2018-03-13 01:14:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.94 Mbit/s

95th percentile per-packet one-way delay: 106.318 ms

Loss rate: 0.36%

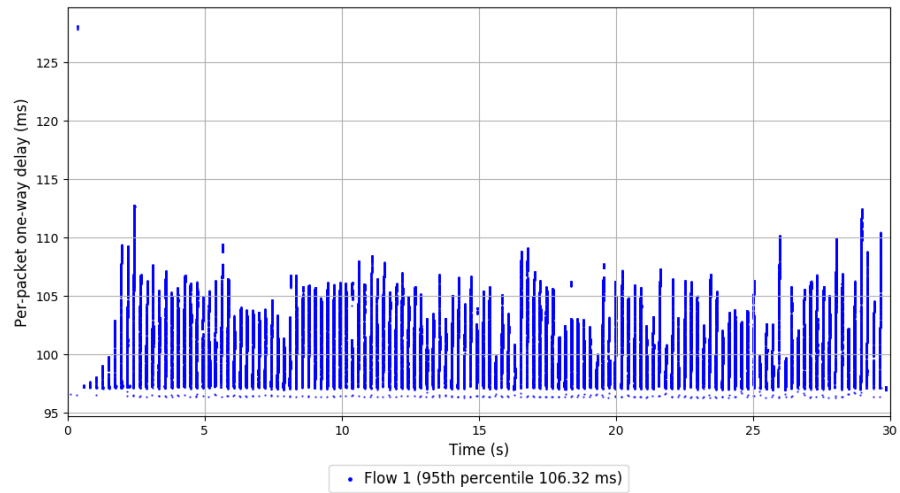
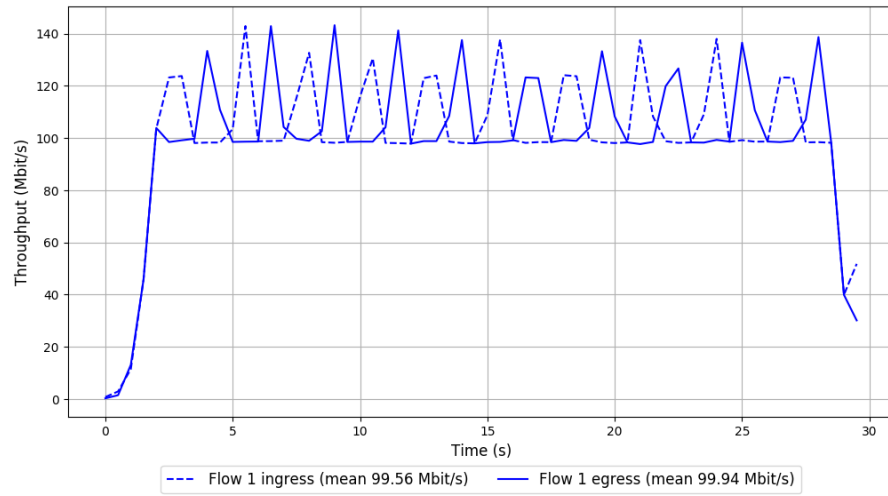
-- Flow 1:

Average throughput: 99.94 Mbit/s

95th percentile per-packet one-way delay: 106.318 ms

Loss rate: 0.36%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-12 20:52:50

End at: 2018-03-12 20:53:21

Below is generated by plot.py at 2018-03-13 01:14:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.58 Mbit/s

95th percentile per-packet one-way delay: 97.705 ms

Loss rate: 0.22%

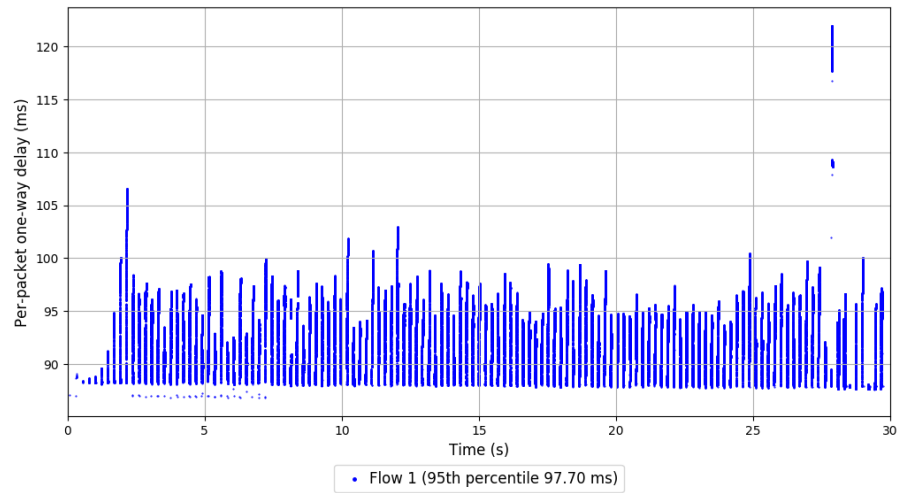
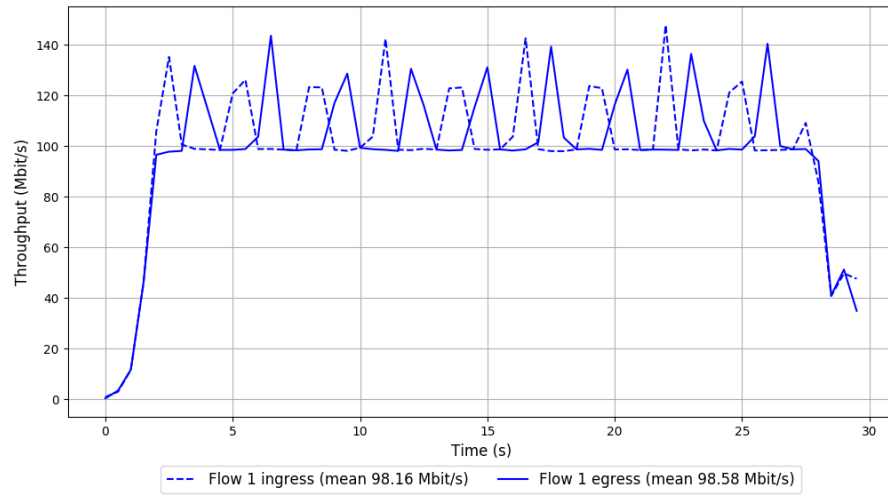
-- Flow 1:

Average throughput: 98.58 Mbit/s

95th percentile per-packet one-way delay: 97.705 ms

Loss rate: 0.22%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-12 21:08:13

End at: 2018-03-12 21:08:43

Below is generated by plot.py at 2018-03-13 01:14:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.56 Mbit/s

95th percentile per-packet one-way delay: 104.157 ms

Loss rate: 0.69%

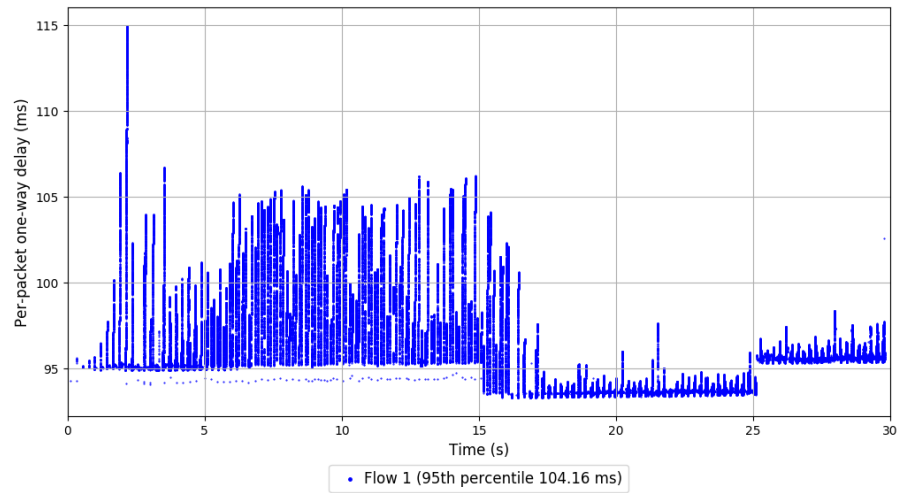
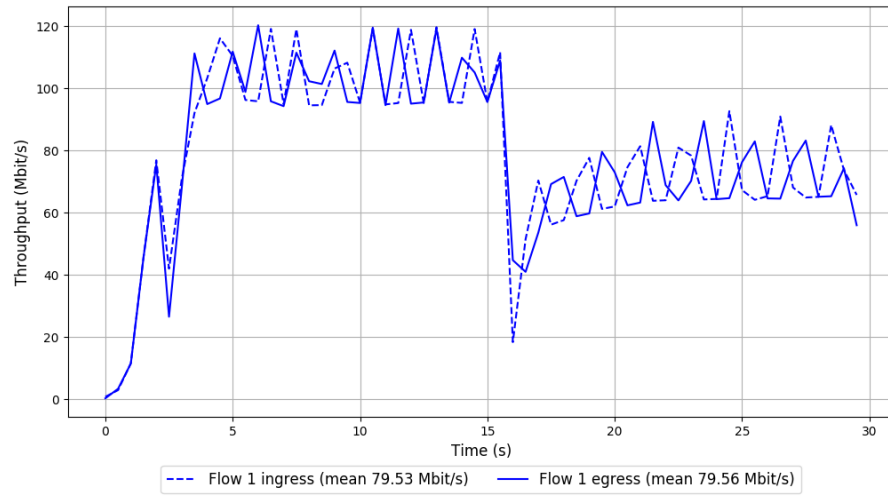
-- Flow 1:

Average throughput: 79.56 Mbit/s

95th percentile per-packet one-way delay: 104.157 ms

Loss rate: 0.69%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-12 21:23:41

End at: 2018-03-12 21:24:11

Below is generated by plot.py at 2018-03-13 01:14:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.11 Mbit/s

95th percentile per-packet one-way delay: 102.362 ms

Loss rate: 0.47%

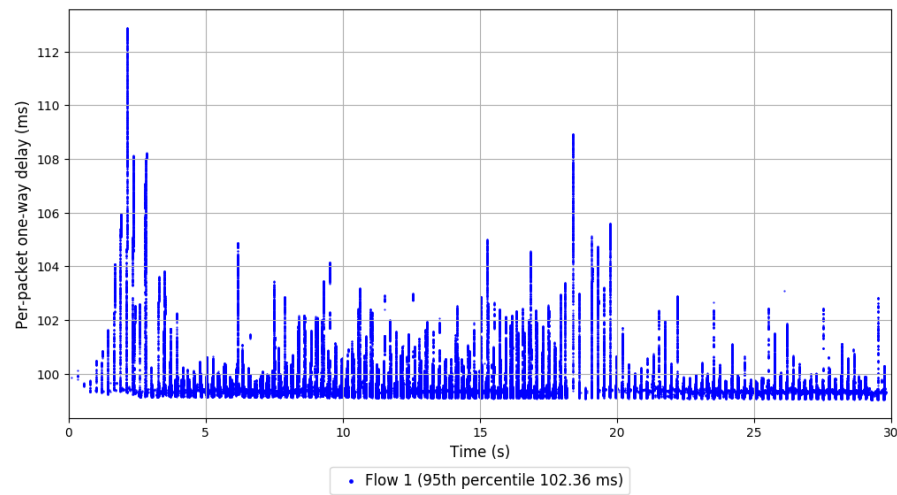
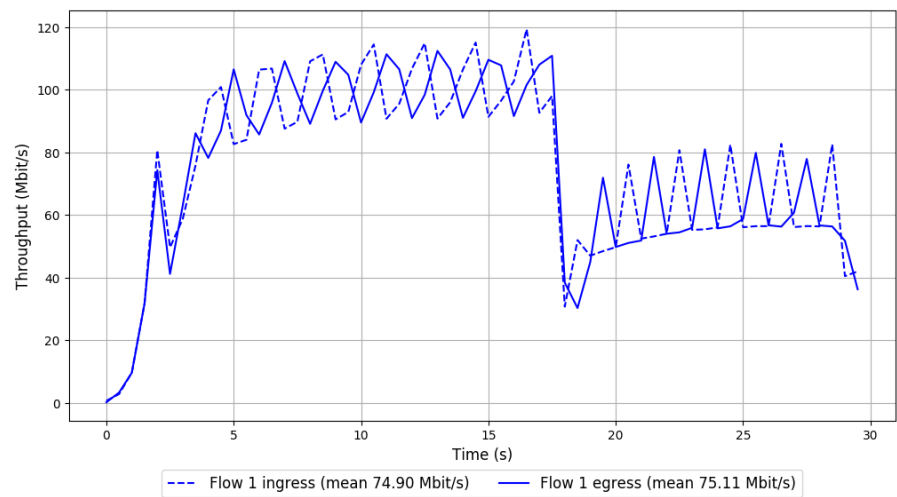
-- Flow 1:

Average throughput: 75.11 Mbit/s

95th percentile per-packet one-way delay: 102.362 ms

Loss rate: 0.47%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-12 21:39:31

End at: 2018-03-12 21:40:01

Below is generated by plot.py at 2018-03-13 01:15:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 111.615 ms

Loss rate: 1.00%

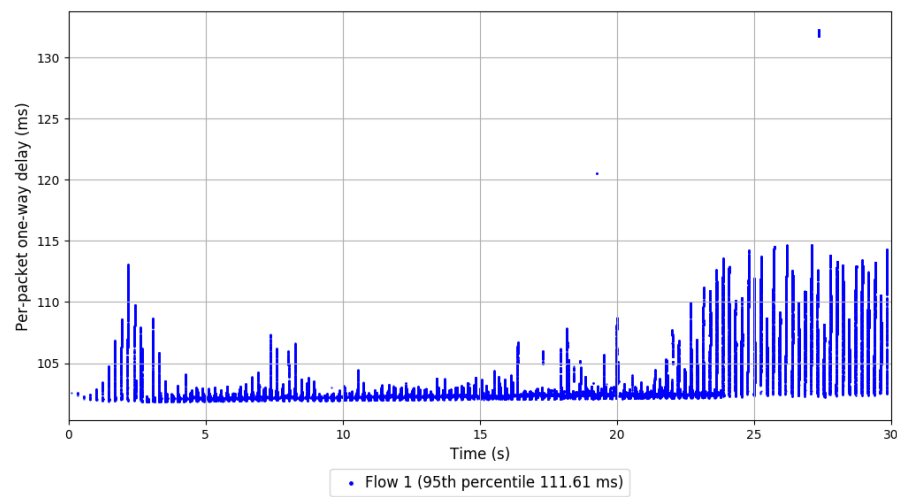
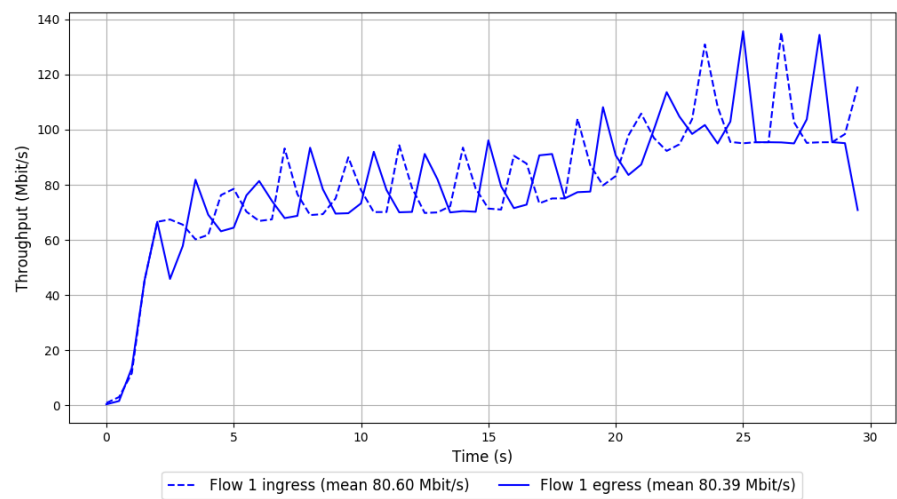
-- Flow 1:

Average throughput: 80.39 Mbit/s

95th percentile per-packet one-way delay: 111.615 ms

Loss rate: 1.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-12 21:55:26

End at: 2018-03-12 21:55:56

Below is generated by plot.py at 2018-03-13 01:15:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 114.197 ms

Loss rate: 1.10%

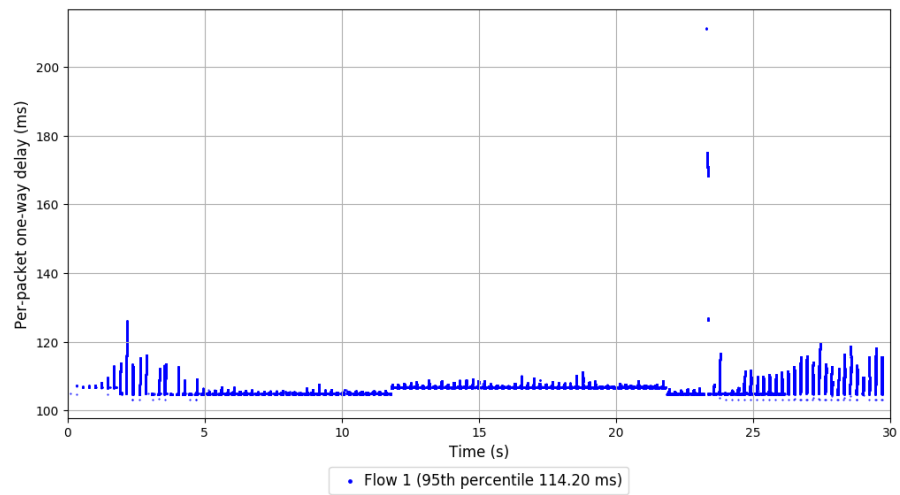
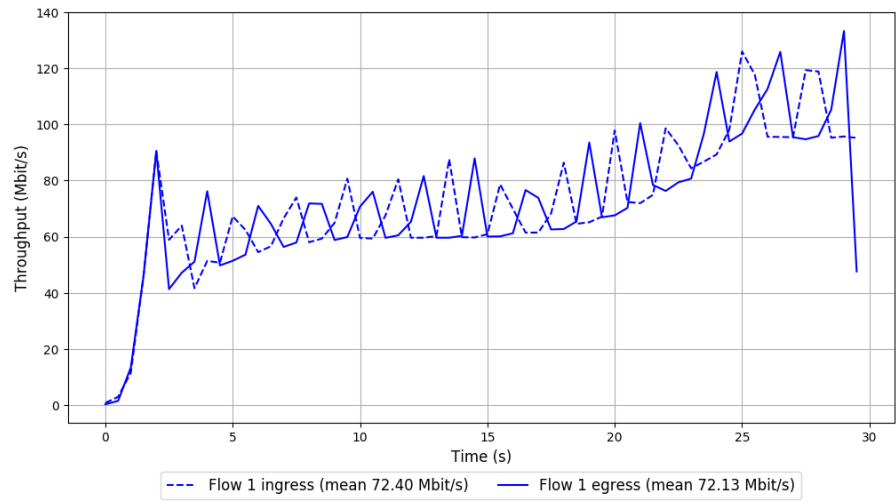
-- Flow 1:

Average throughput: 72.13 Mbit/s

95th percentile per-packet one-way delay: 114.197 ms

Loss rate: 1.10%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-12 22:10:57

End at: 2018-03-12 22:11:27

Below is generated by plot.py at 2018-03-13 01:15:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 112.682 ms

Loss rate: 1.05%

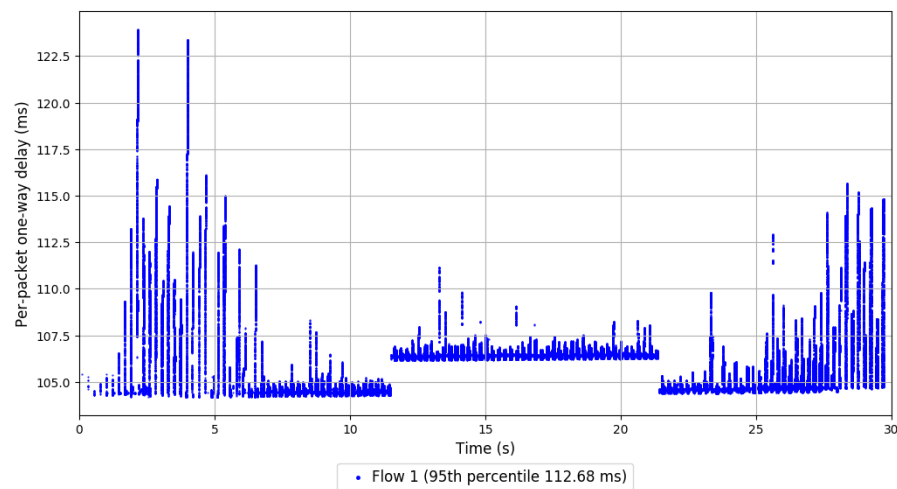
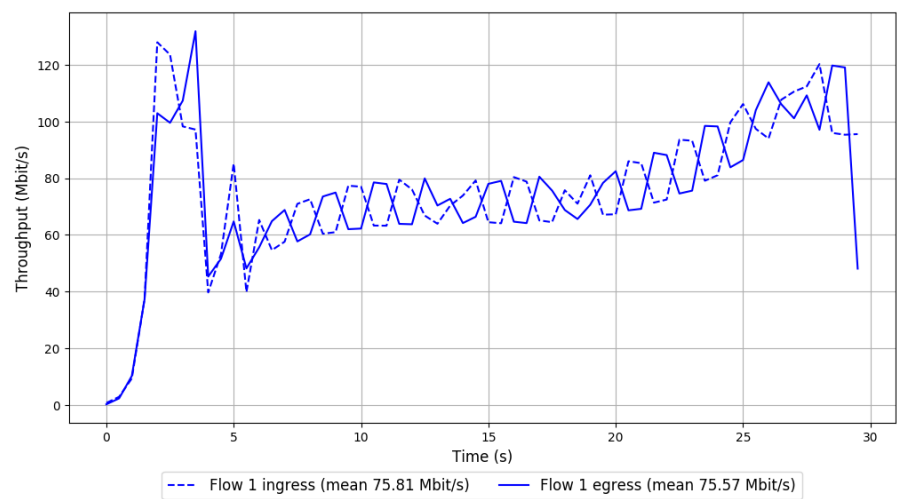
-- Flow 1:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 112.682 ms

Loss rate: 1.05%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-12 22:26:24

End at: 2018-03-12 22:26:54

Below is generated by plot.py at 2018-03-13 01:15:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 115.717 ms

Loss rate: 0.84%

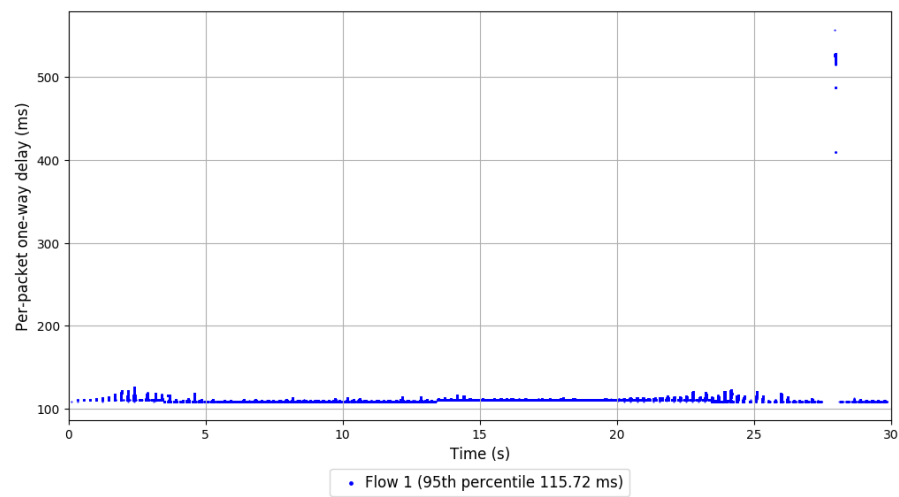
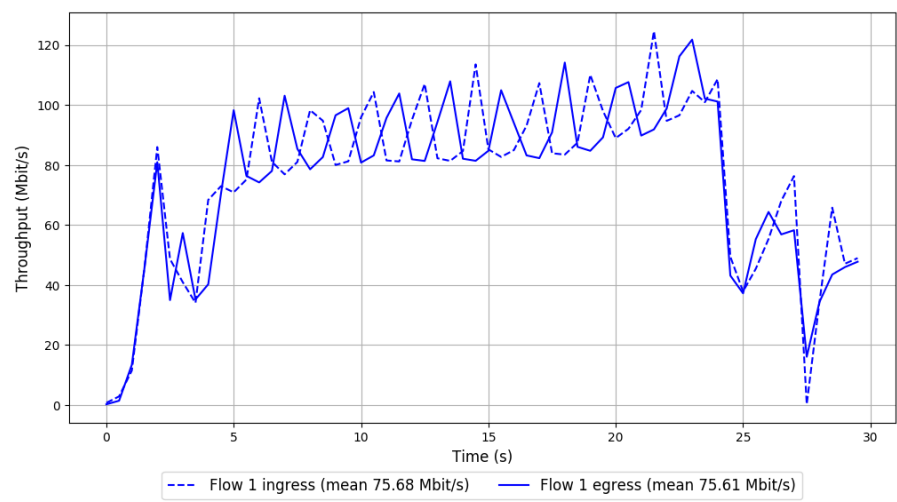
-- Flow 1:

Average throughput: 75.61 Mbit/s

95th percentile per-packet one-way delay: 115.717 ms

Loss rate: 0.84%

Run 10: Report of TCP Cubic — Data Link

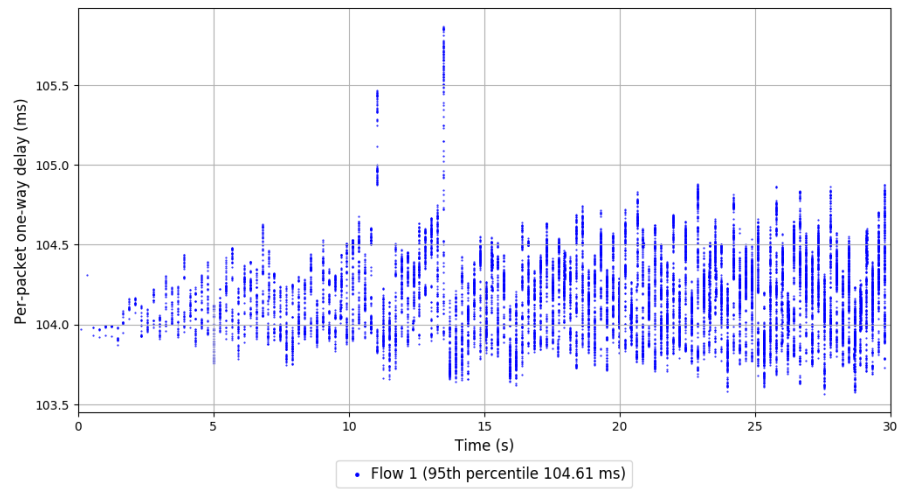
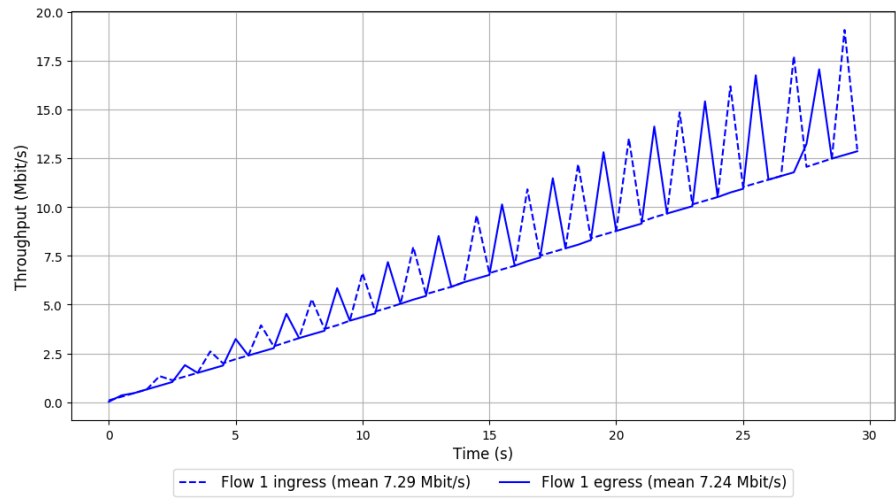


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-12 20:03:48
End at: 2018-03-12 20:04:18

# Below is generated by plot.py at 2018-03-13 01:15:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 104.605 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 7.24 Mbit/s
95th percentile per-packet one-way delay: 104.605 ms
Loss rate: 1.49%
```

Run 1: Report of LEDBAT — Data Link

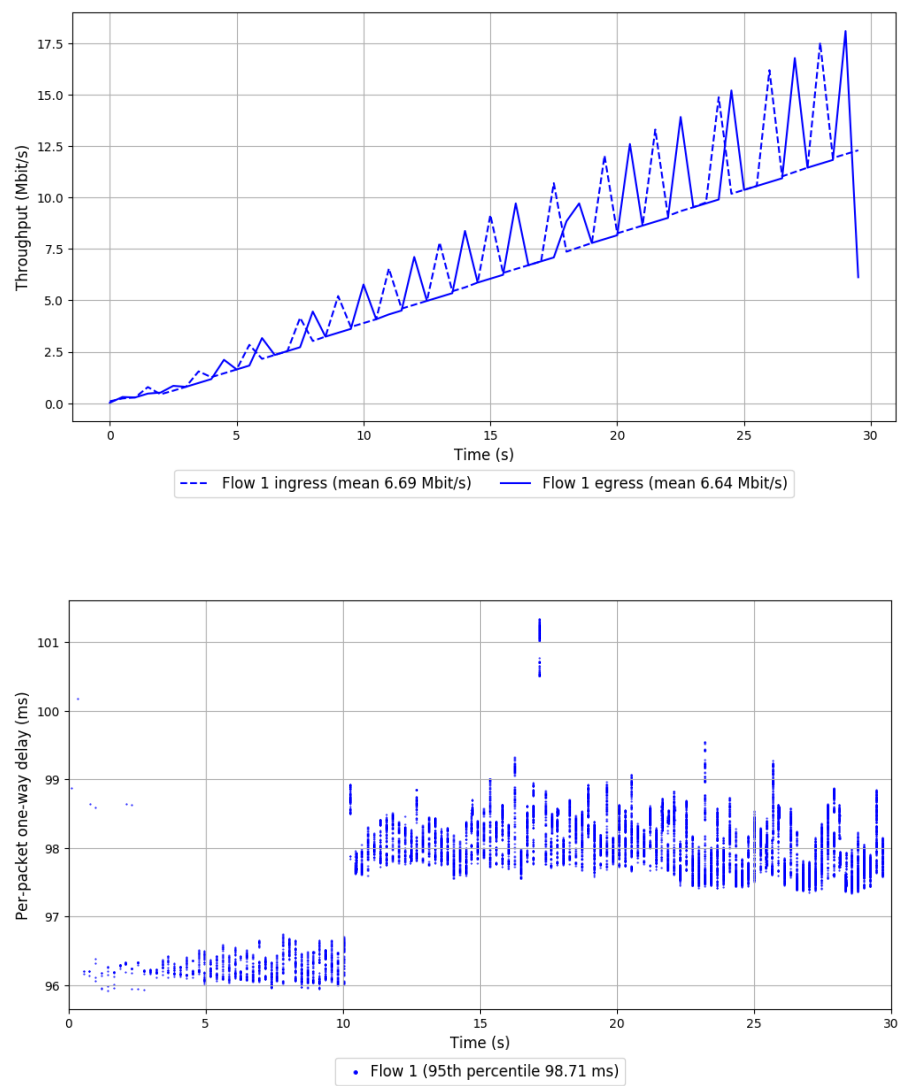


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-12 20:19:08
End at: 2018-03-12 20:19:38

# Below is generated by plot.py at 2018-03-13 01:15:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 98.712 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 98.712 ms
Loss rate: 1.55%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-12 20:34:37

End at: 2018-03-12 20:35:07

Below is generated by plot.py at 2018-03-13 01:15:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 98.396 ms

Loss rate: 1.50%

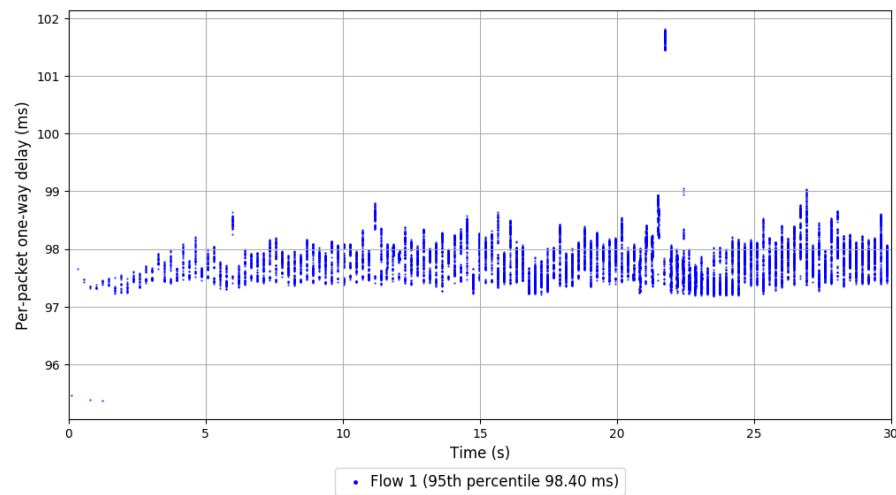
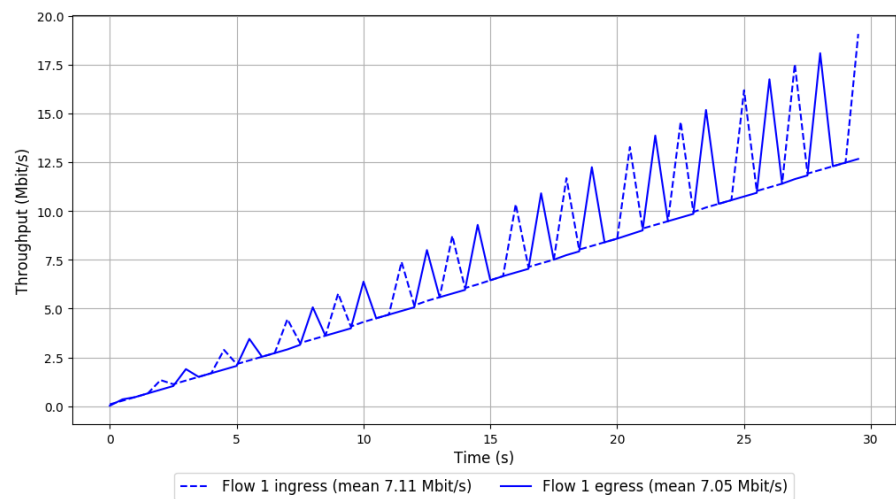
-- Flow 1:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 98.396 ms

Loss rate: 1.50%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-12 20:49:59

End at: 2018-03-12 20:50:29

Below is generated by plot.py at 2018-03-13 01:15:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 91.090 ms

Loss rate: 1.51%

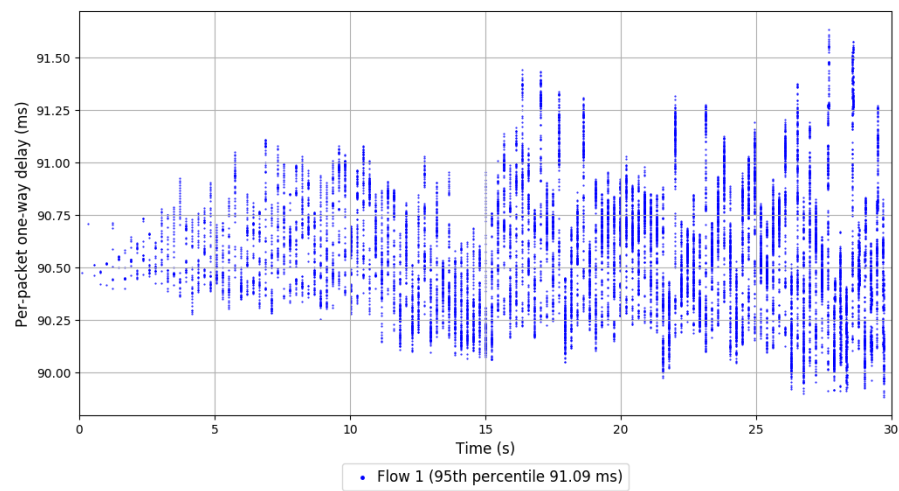
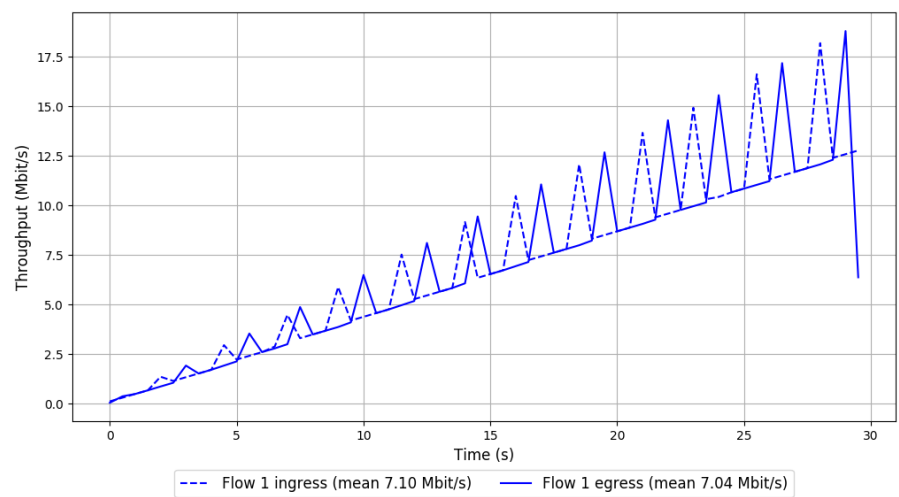
-- Flow 1:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 91.090 ms

Loss rate: 1.51%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-12 21:05:23

End at: 2018-03-12 21:05:53

Below is generated by plot.py at 2018-03-13 01:15:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 92.777 ms

Loss rate: 1.48%

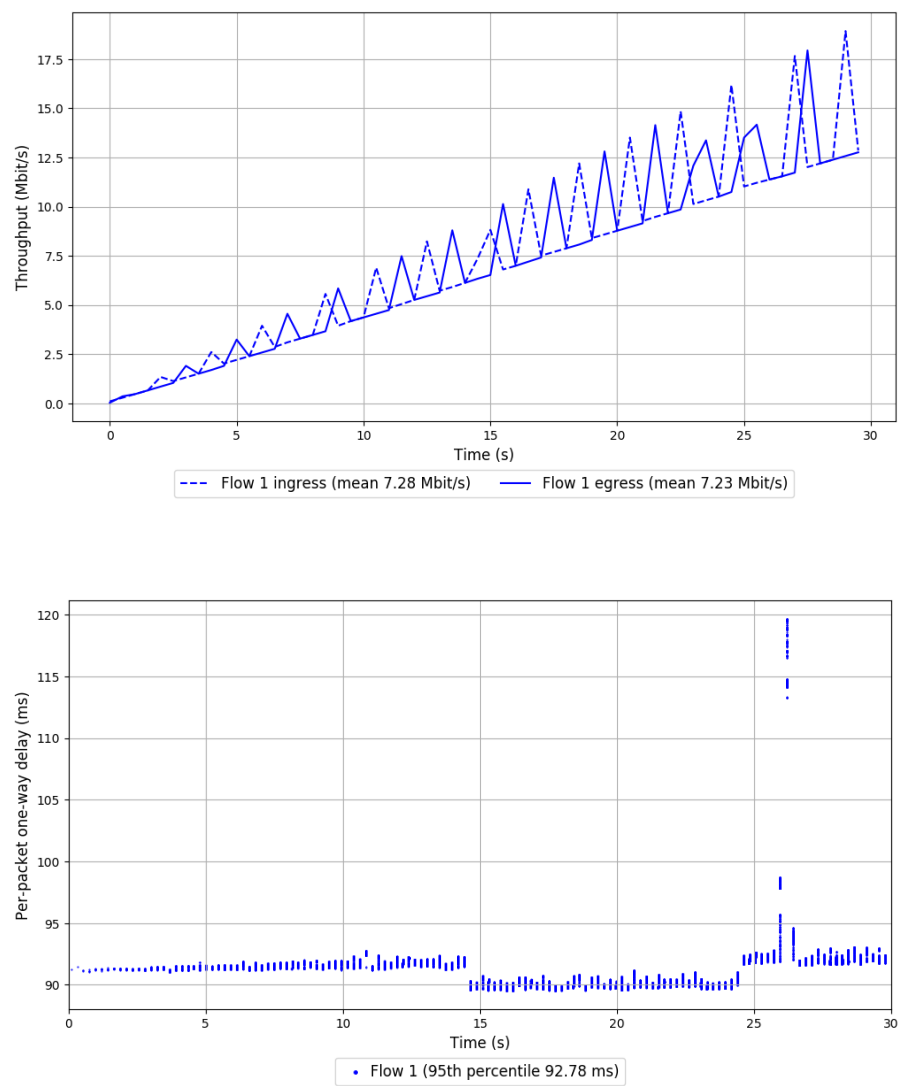
-- Flow 1:

Average throughput: 7.23 Mbit/s

95th percentile per-packet one-way delay: 92.777 ms

Loss rate: 1.48%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-12 21:20:59

End at: 2018-03-12 21:21:29

Below is generated by plot.py at 2018-03-13 01:15:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 100.494 ms

Loss rate: 2.02%

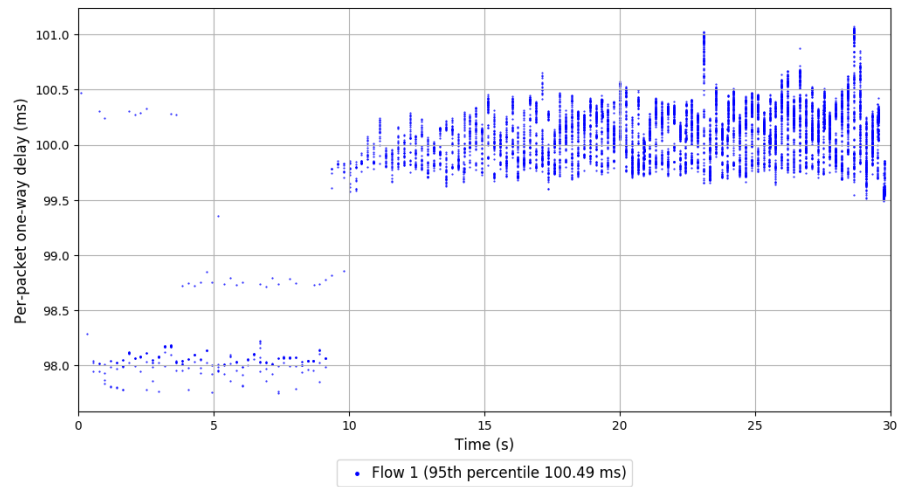
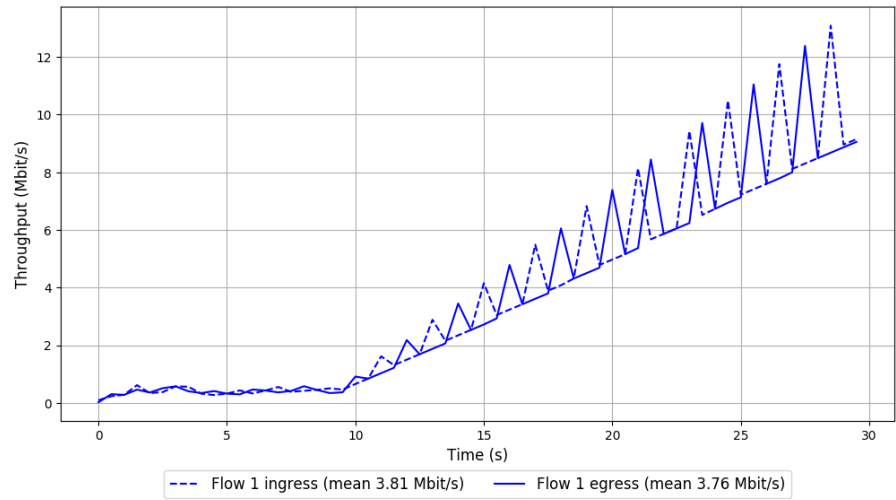
-- Flow 1:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 100.494 ms

Loss rate: 2.02%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-12 21:36:36

End at: 2018-03-12 21:37:06

Below is generated by plot.py at 2018-03-13 01:15:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 100.134 ms

Loss rate: 1.50%

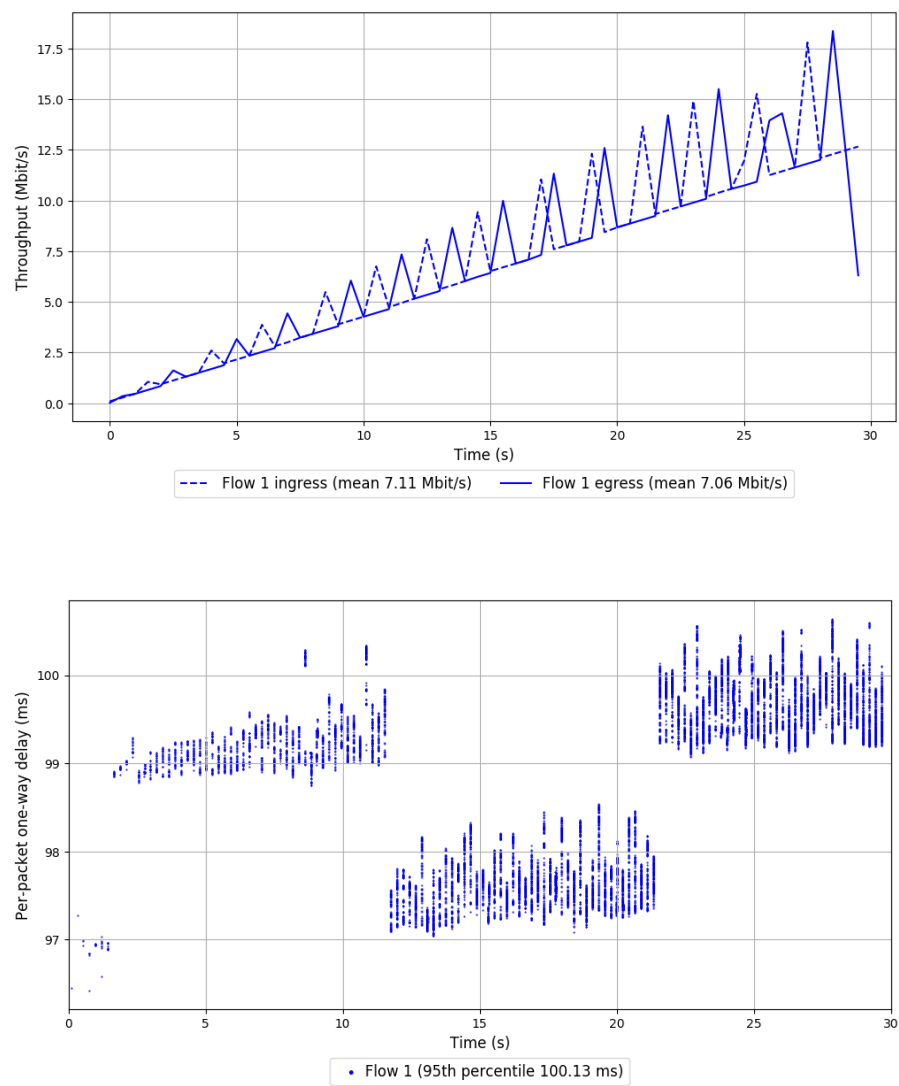
-- Flow 1:

Average throughput: 7.06 Mbit/s

95th percentile per-packet one-way delay: 100.134 ms

Loss rate: 1.50%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-12 21:52:31

End at: 2018-03-12 21:53:01

Below is generated by plot.py at 2018-03-13 01:15:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 107.633 ms

Loss rate: 1.50%

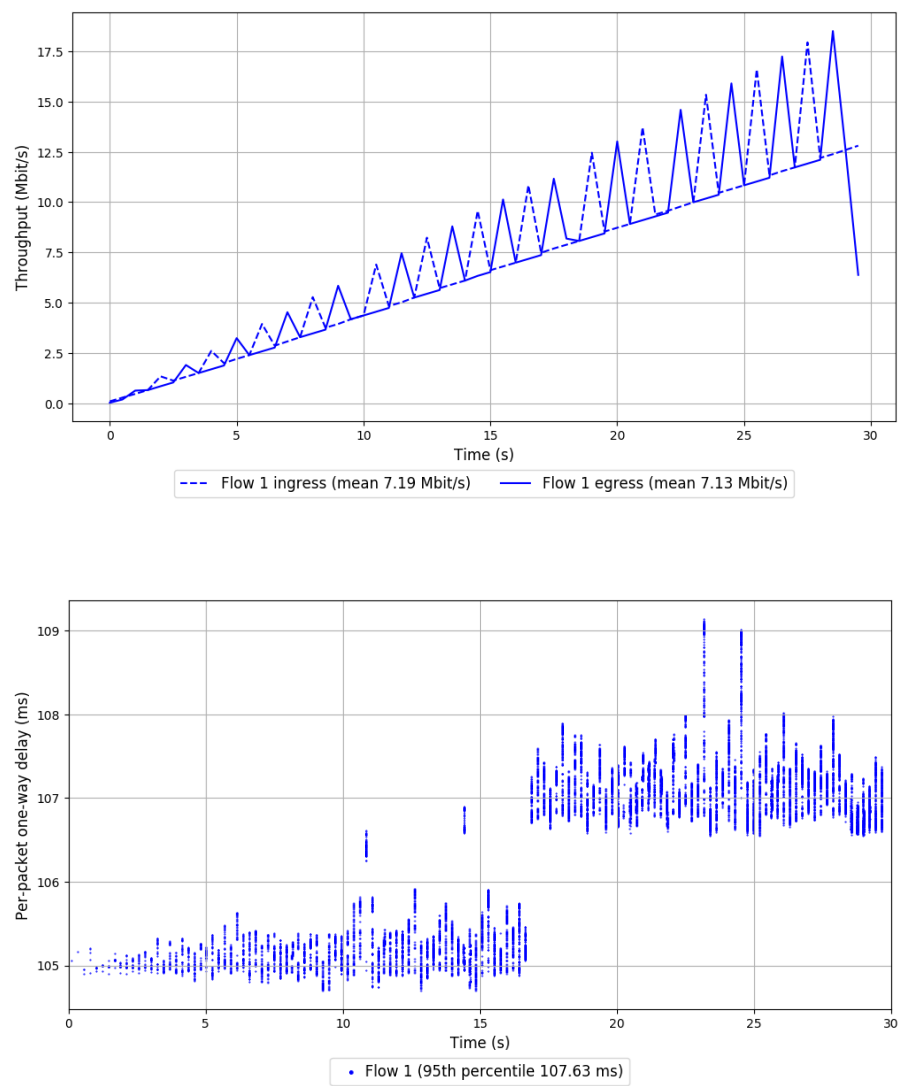
-- Flow 1:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 107.633 ms

Loss rate: 1.50%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-12 22:08:03

End at: 2018-03-12 22:08:33

Below is generated by plot.py at 2018-03-13 01:15:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 106.003 ms

Loss rate: 0.71%

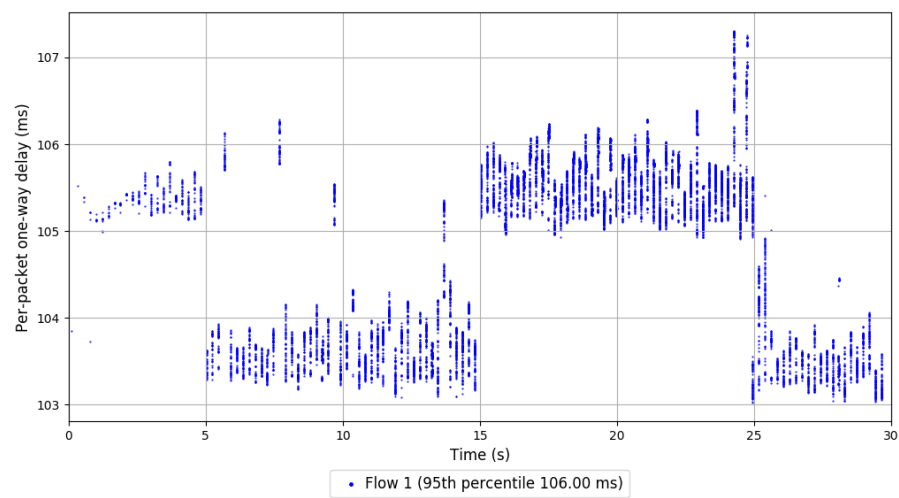
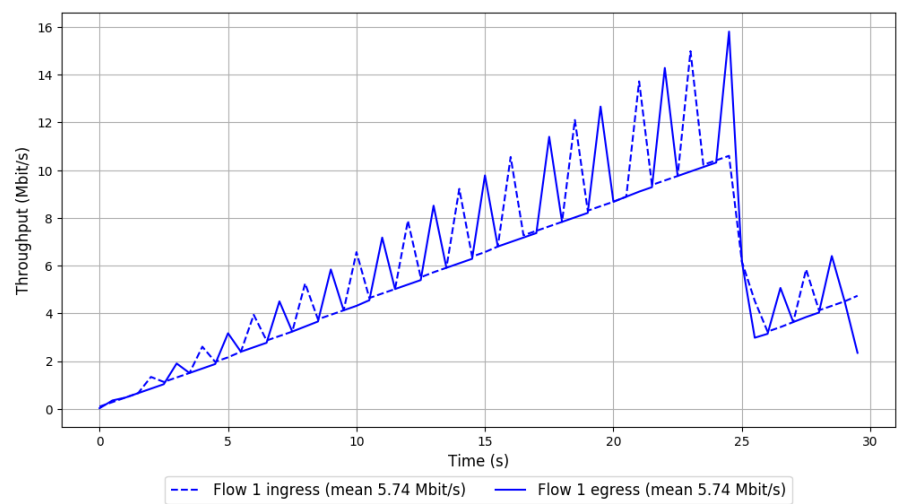
-- Flow 1:

Average throughput: 5.74 Mbit/s

95th percentile per-packet one-way delay: 106.003 ms

Loss rate: 0.71%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-12 22:23:41

End at: 2018-03-12 22:24:11

Below is generated by plot.py at 2018-03-13 01:15:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.66 Mbit/s

95th percentile per-packet one-way delay: 111.454 ms

Loss rate: 1.82%

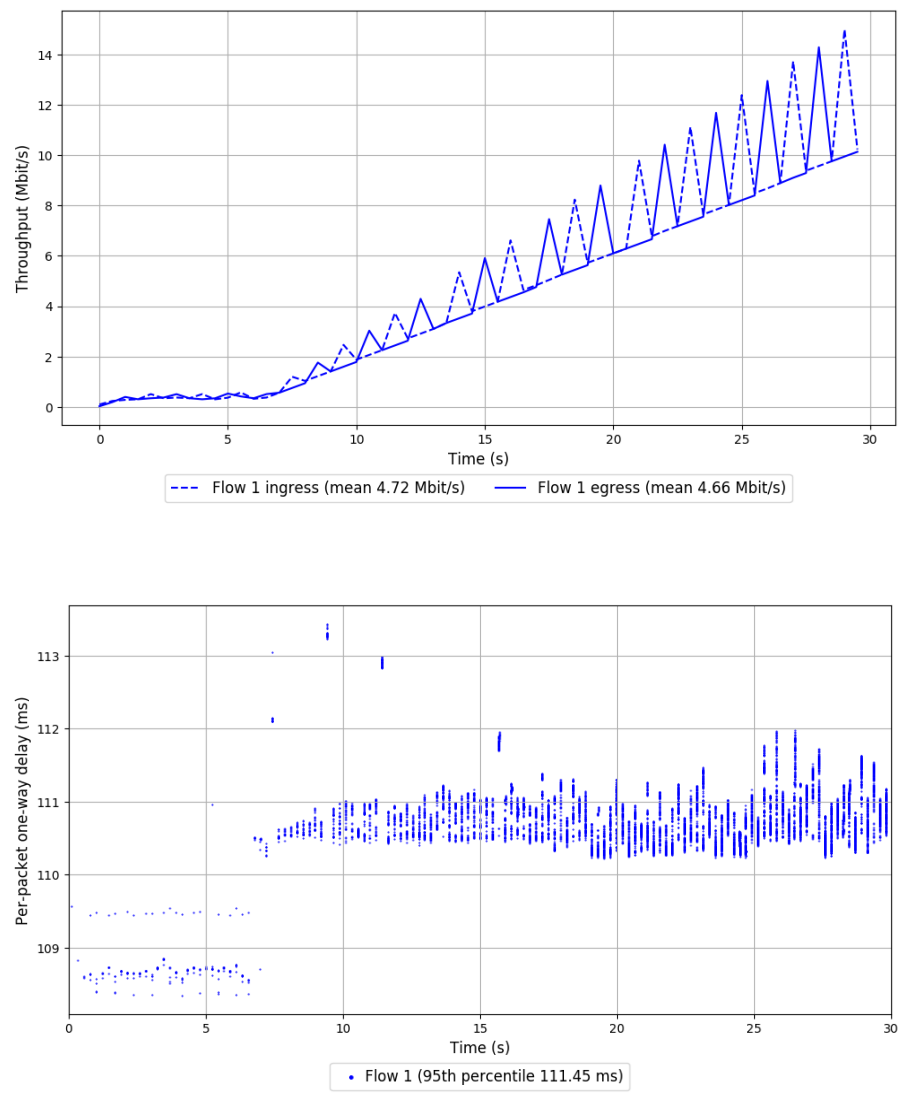
-- Flow 1:

Average throughput: 4.66 Mbit/s

95th percentile per-packet one-way delay: 111.454 ms

Loss rate: 1.82%

Run 10: Report of LEDBAT — Data Link

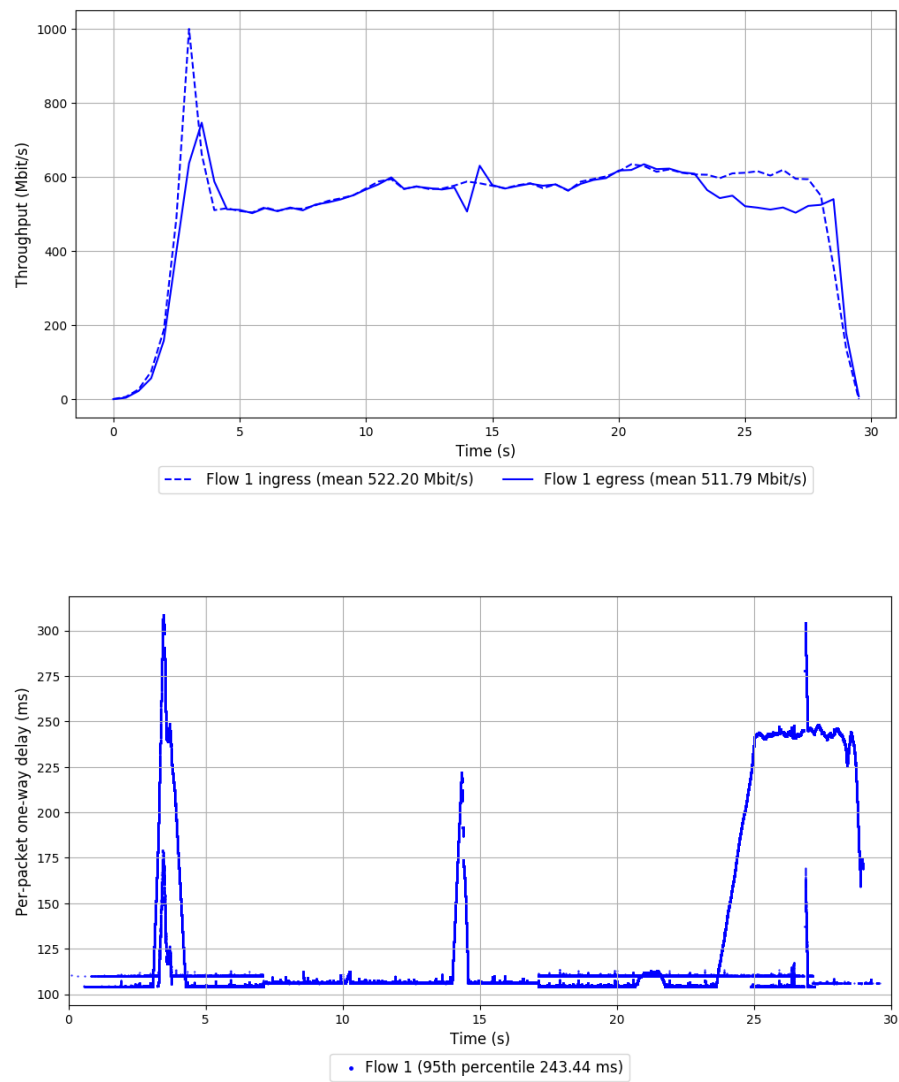


```
Run 1: Statistics of PCC

Start at: 2018-03-12 19:57:51
End at: 2018-03-12 19:58:21

# Below is generated by plot.py at 2018-03-13 01:23:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 511.79 Mbit/s
95th percentile per-packet one-way delay: 243.439 ms
Loss rate: 2.89%
-- Flow 1:
Average throughput: 511.79 Mbit/s
95th percentile per-packet one-way delay: 243.439 ms
Loss rate: 2.89%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-12 20:13:05

End at: 2018-03-12 20:13:35

Below is generated by plot.py at 2018-03-13 01:23:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.95 Mbit/s

95th percentile per-packet one-way delay: 137.829 ms

Loss rate: 1.66%

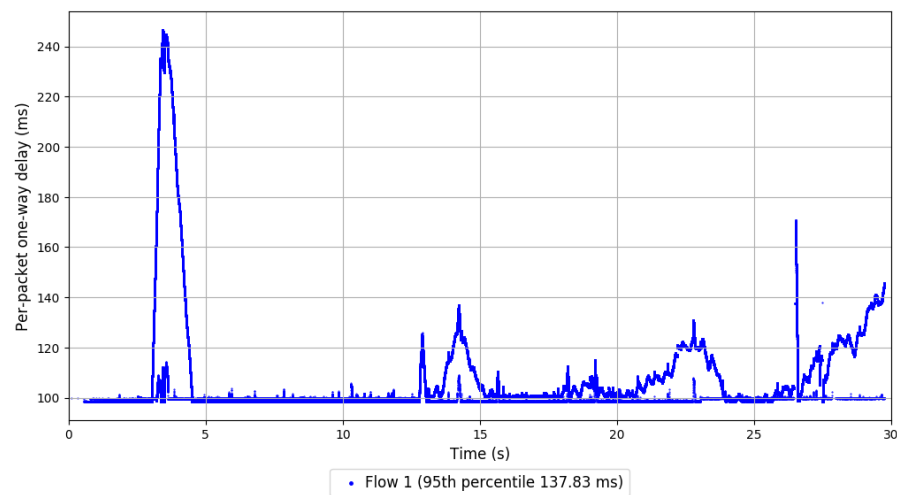
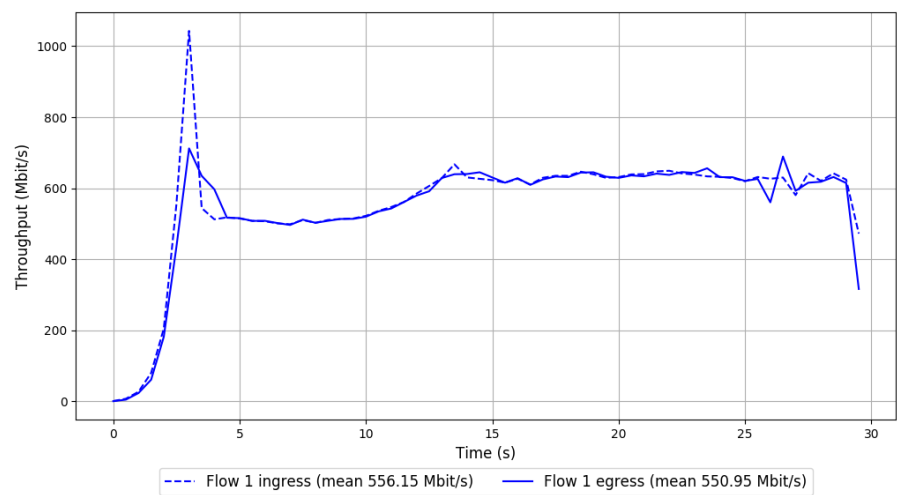
-- Flow 1:

Average throughput: 550.95 Mbit/s

95th percentile per-packet one-way delay: 137.829 ms

Loss rate: 1.66%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-12 20:28:24

End at: 2018-03-12 20:28:55

Below is generated by plot.py at 2018-03-13 01:23:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.46 Mbit/s

95th percentile per-packet one-way delay: 217.141 ms

Loss rate: 2.70%

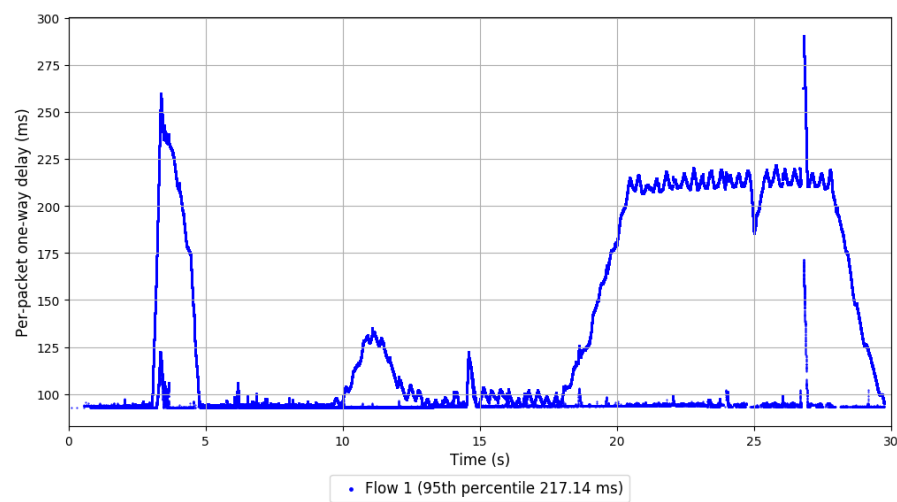
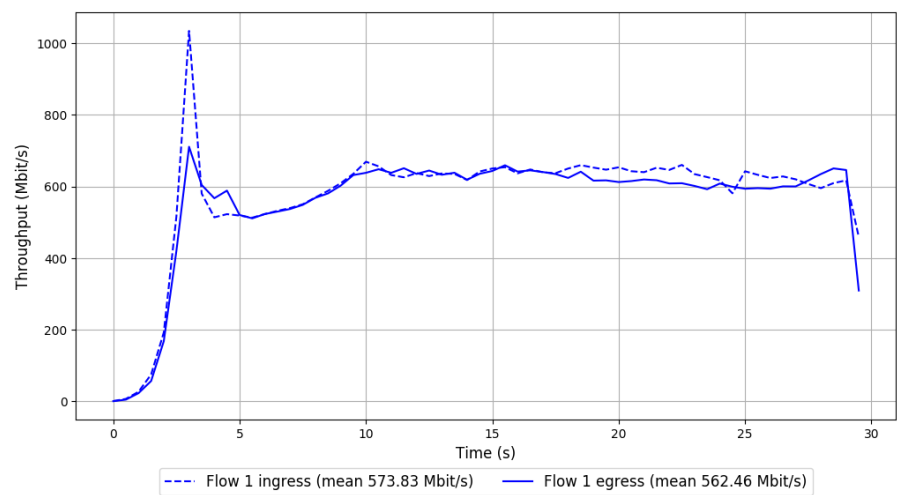
-- Flow 1:

Average throughput: 562.46 Mbit/s

95th percentile per-packet one-way delay: 217.141 ms

Loss rate: 2.70%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-12 20:43:55

End at: 2018-03-12 20:44:25

Below is generated by plot.py at 2018-03-13 01:23:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.97 Mbit/s

95th percentile per-packet one-way delay: 233.290 ms

Loss rate: 4.62%

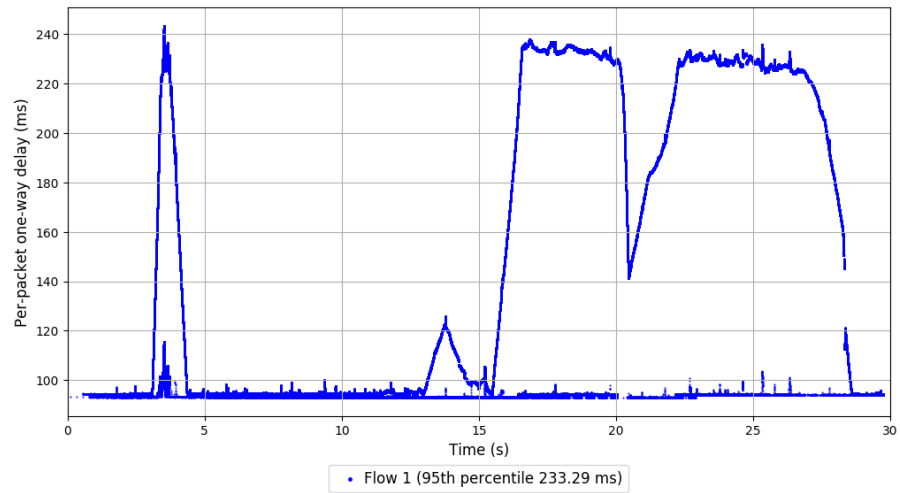
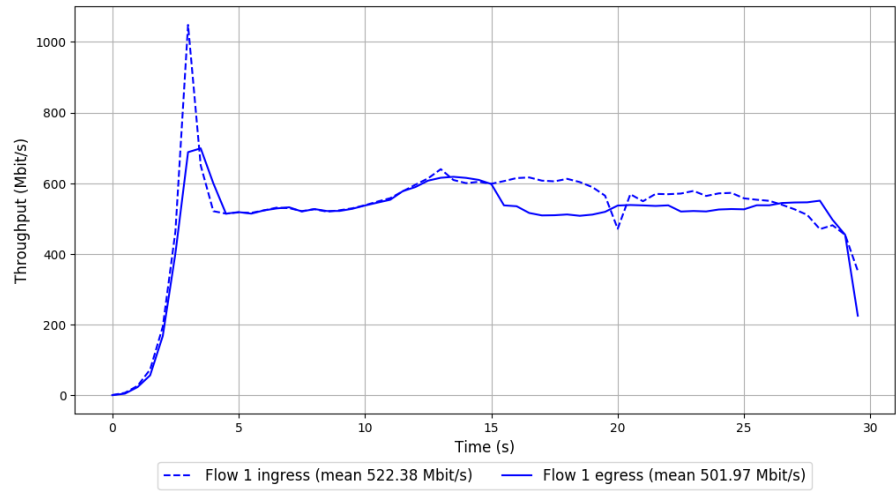
-- Flow 1:

Average throughput: 501.97 Mbit/s

95th percentile per-packet one-way delay: 233.290 ms

Loss rate: 4.62%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-12 20:59:19

End at: 2018-03-12 20:59:49

Below is generated by plot.py at 2018-03-13 01:24:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.97 Mbit/s

95th percentile per-packet one-way delay: 197.145 ms

Loss rate: 1.98%

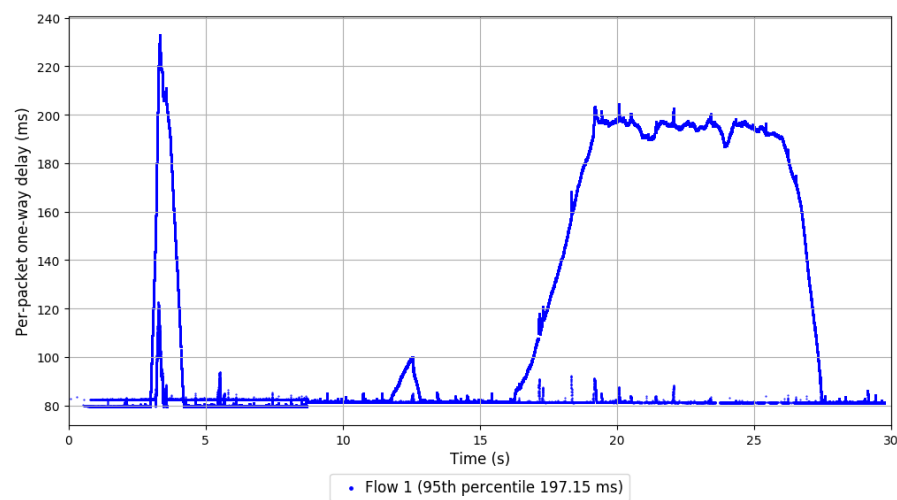
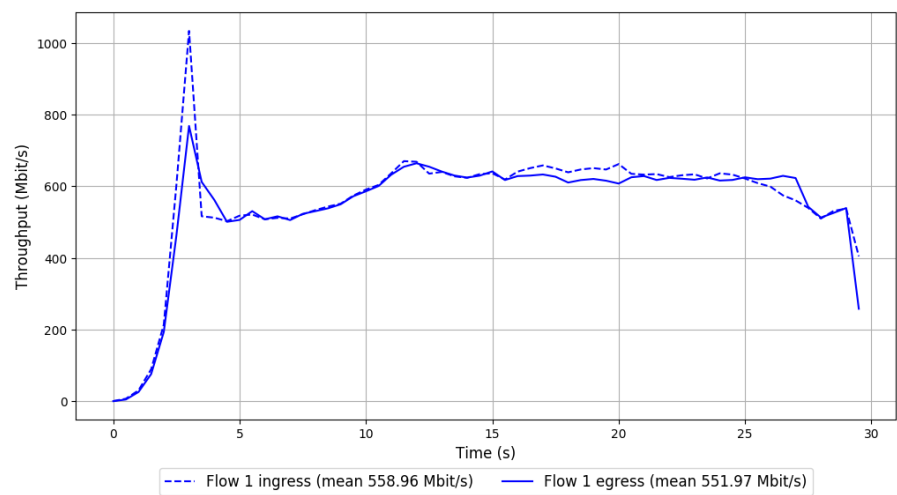
-- Flow 1:

Average throughput: 551.97 Mbit/s

95th percentile per-packet one-way delay: 197.145 ms

Loss rate: 1.98%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-12 21:14:40

End at: 2018-03-12 21:15:10

Below is generated by plot.py at 2018-03-13 01:24:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 539.55 Mbit/s

95th percentile per-packet one-way delay: 122.047 ms

Loss rate: 1.27%

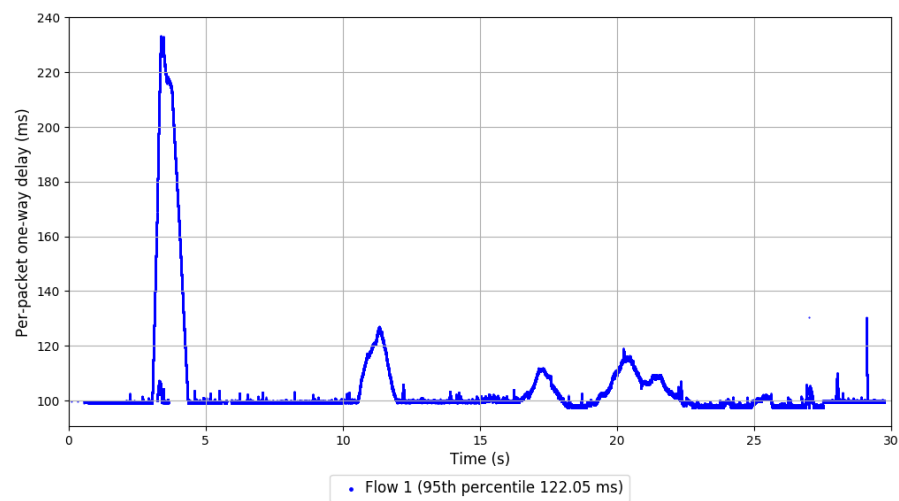
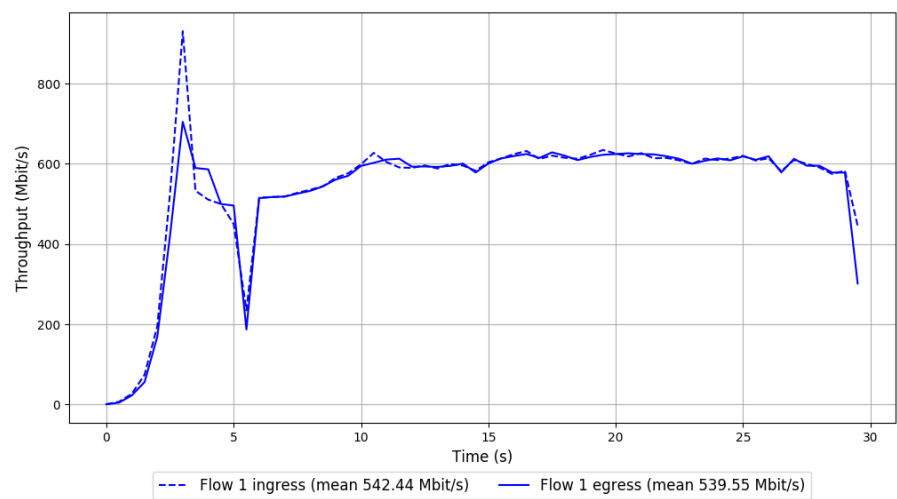
-- Flow 1:

Average throughput: 539.55 Mbit/s

95th percentile per-packet one-way delay: 122.047 ms

Loss rate: 1.27%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-12 21:30:13

End at: 2018-03-12 21:30:43

Below is generated by plot.py at 2018-03-13 01:24:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.25 Mbit/s

95th percentile per-packet one-way delay: 212.981 ms

Loss rate: 2.33%

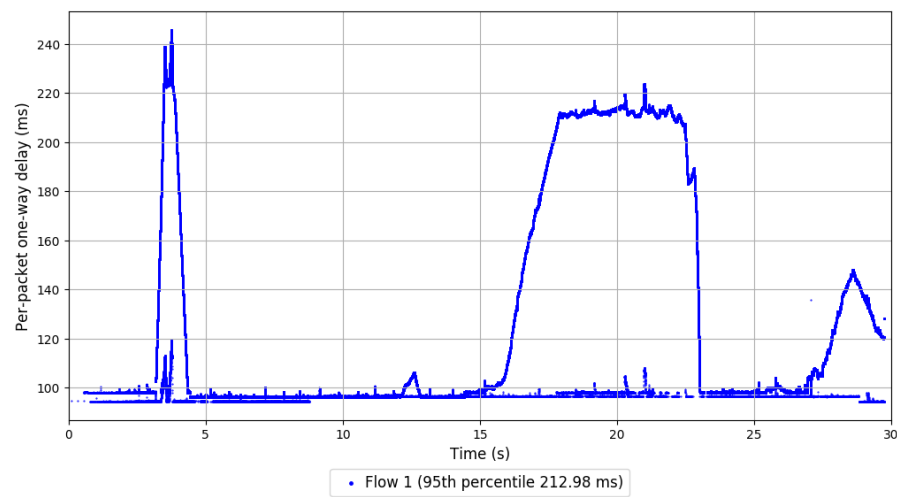
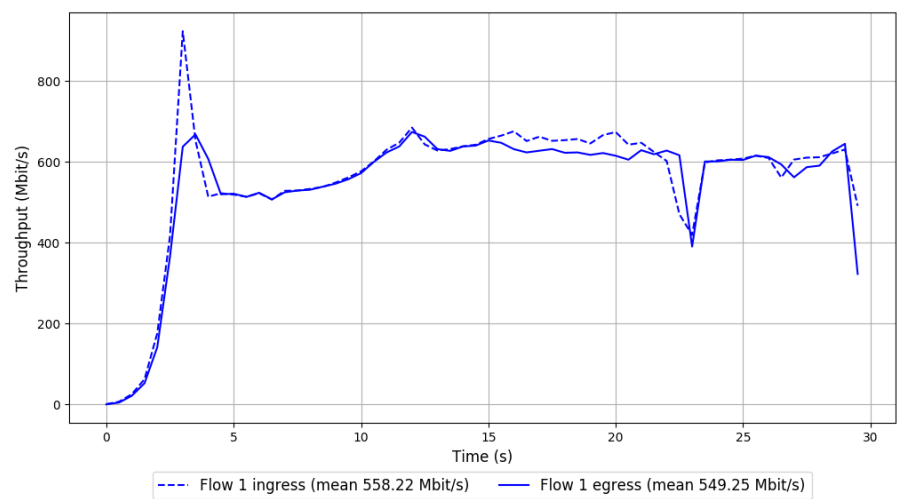
-- Flow 1:

Average throughput: 549.25 Mbit/s

95th percentile per-packet one-way delay: 212.981 ms

Loss rate: 2.33%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-12 21:46:01

End at: 2018-03-12 21:46:31

Below is generated by plot.py at 2018-03-13 01:24:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 567.02 Mbit/s

95th percentile per-packet one-way delay: 137.892 ms

Loss rate: 1.57%

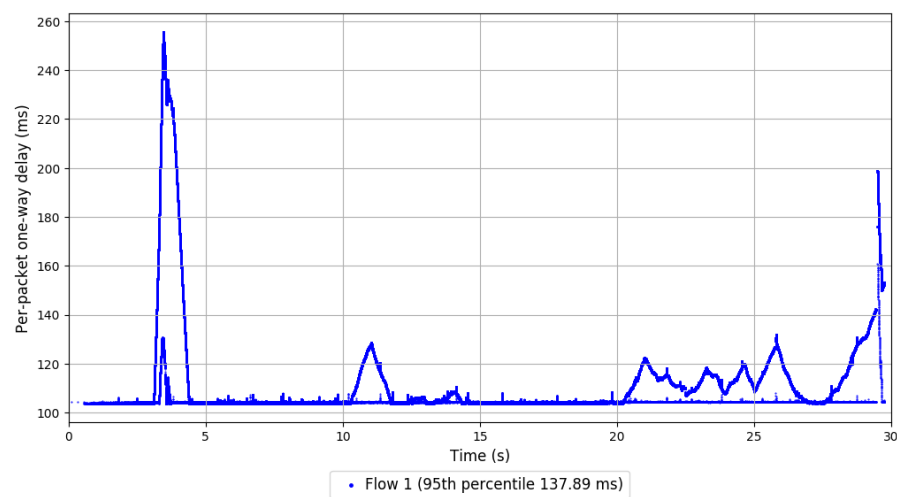
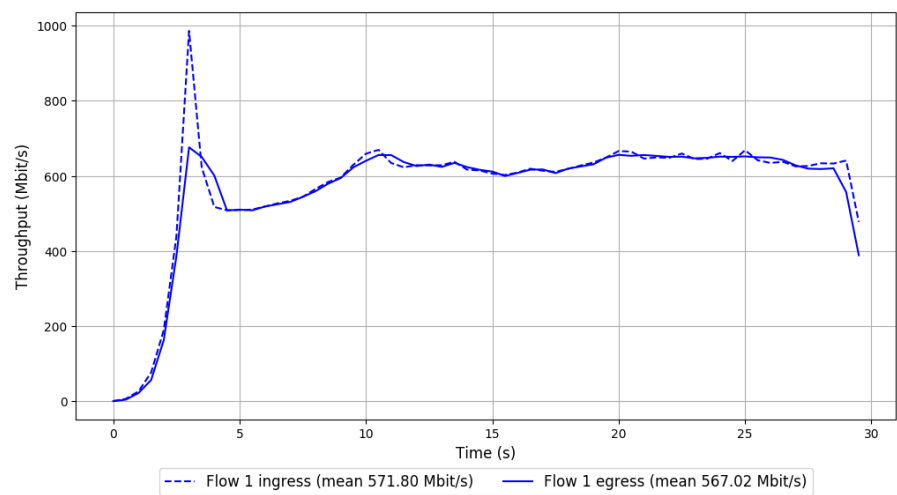
-- Flow 1:

Average throughput: 567.02 Mbit/s

95th percentile per-packet one-way delay: 137.892 ms

Loss rate: 1.57%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-12 22:01:54

End at: 2018-03-12 22:02:24

Below is generated by plot.py at 2018-03-13 01:32:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 552.83 Mbit/s

95th percentile per-packet one-way delay: 128.328 ms

Loss rate: 1.67%

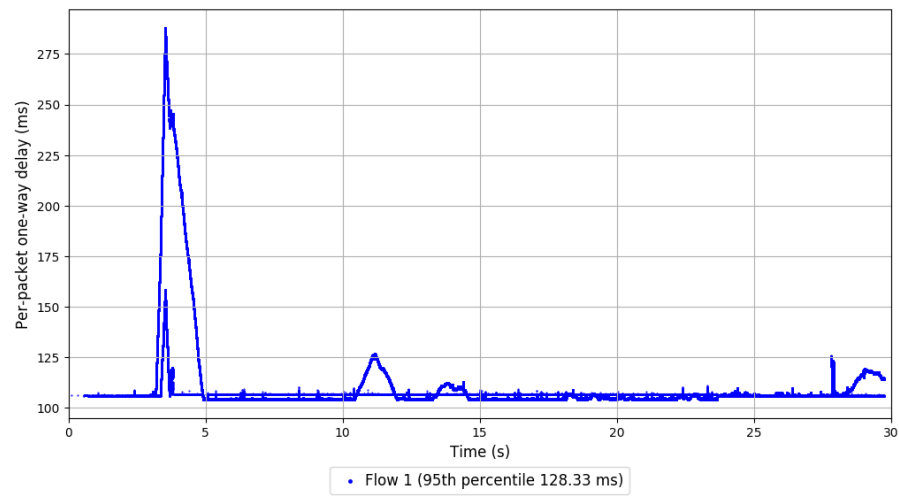
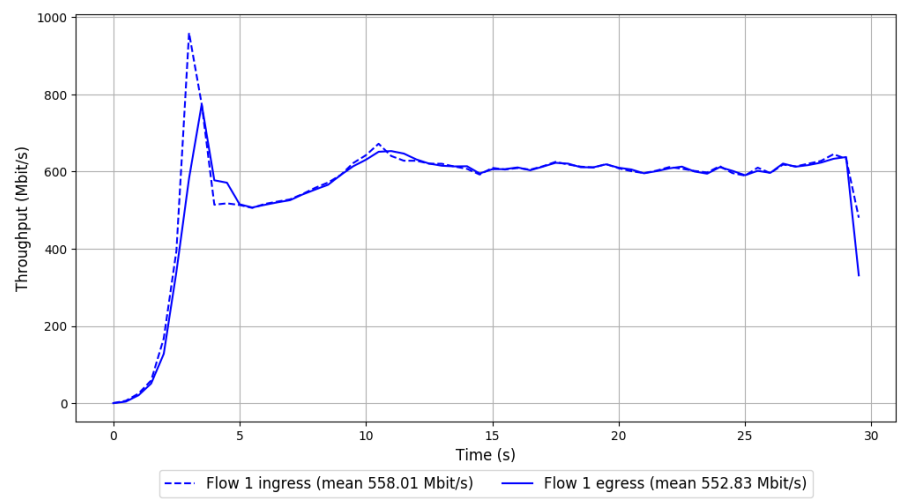
-- Flow 1:

Average throughput: 552.83 Mbit/s

95th percentile per-packet one-way delay: 128.328 ms

Loss rate: 1.67%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-12 22:17:24

End at: 2018-03-12 22:17:54

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.15 Mbit/s

95th percentile per-packet one-way delay: 209.703 ms

Loss rate: 1.86%

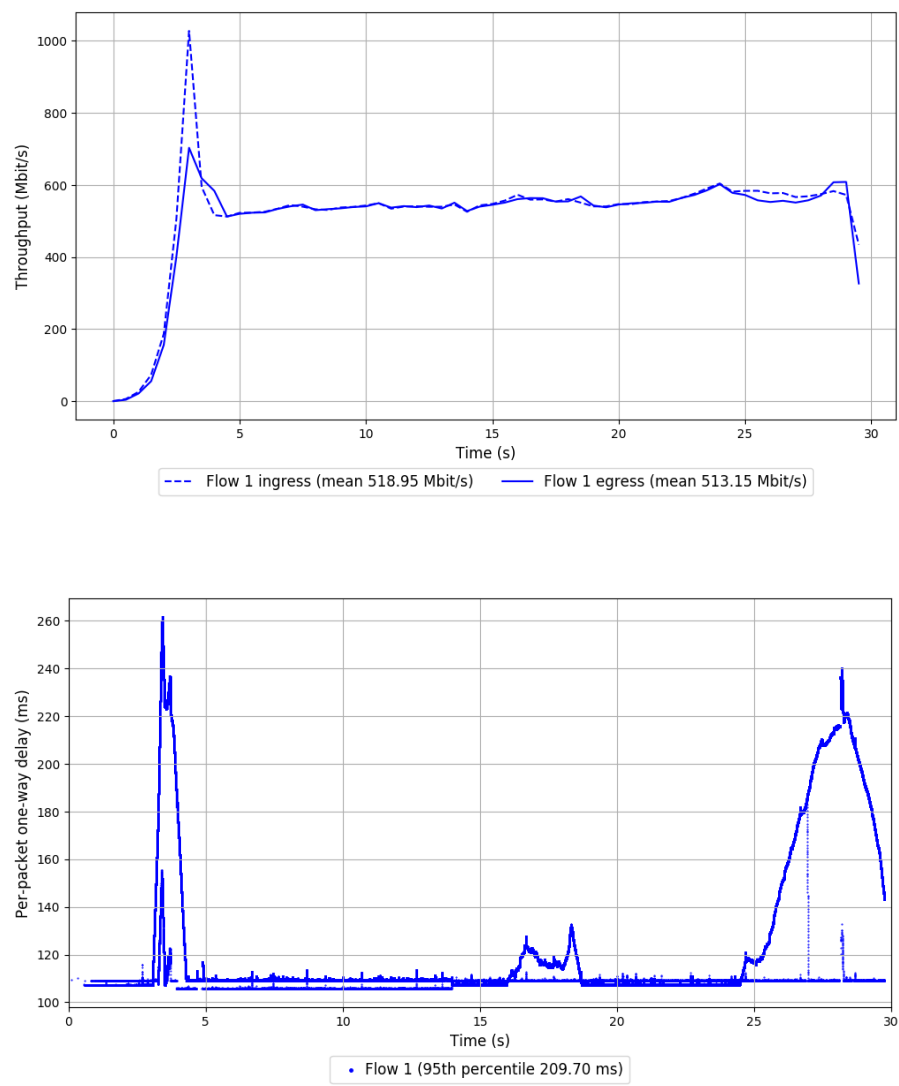
-- Flow 1:

Average throughput: 513.15 Mbit/s

95th percentile per-packet one-way delay: 209.703 ms

Loss rate: 1.86%

Run 10: Report of PCC — Data Link

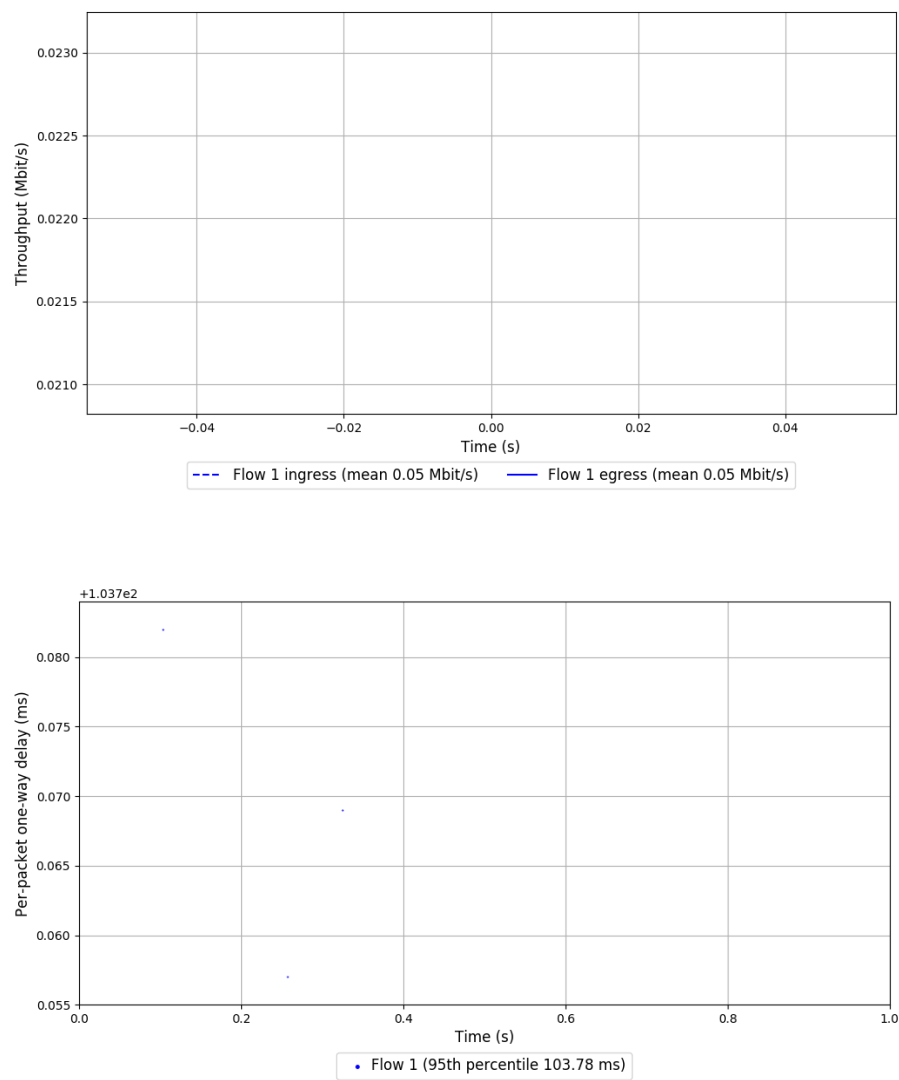


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-12 19:57:10

End at: 2018-03-12 19:57:41

Run 1: Report of QUIC Cubic — Data Link

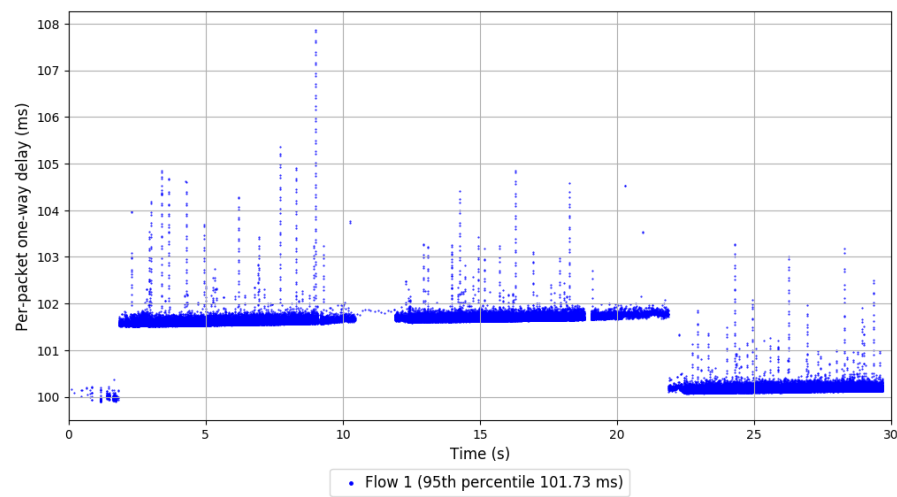
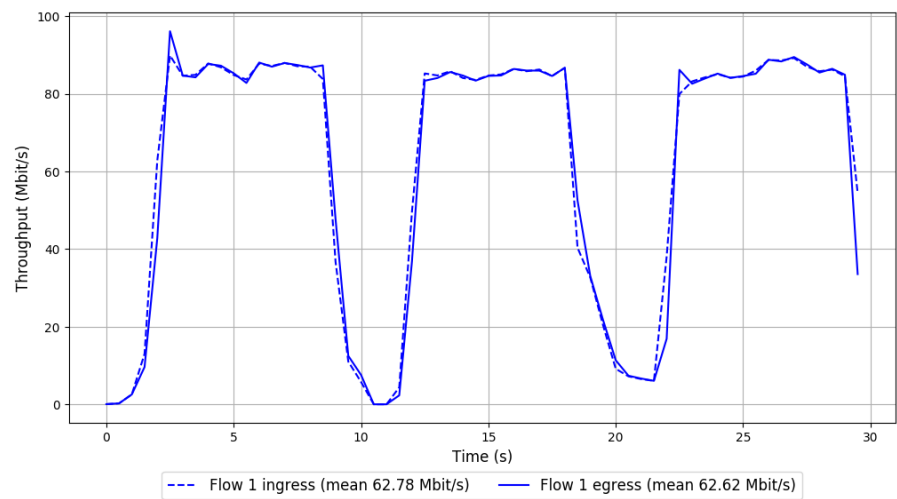


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-03-12 20:12:20
End at: 2018-03-12 20:12:50

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.62 Mbit/s
95th percentile per-packet one-way delay: 101.732 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 62.62 Mbit/s
95th percentile per-packet one-way delay: 101.732 ms
Loss rate: 1.00%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-12 20:27:42

End at: 2018-03-12 20:28:12

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.65 Mbit/s

95th percentile per-packet one-way delay: 92.326 ms

Loss rate: 0.78%

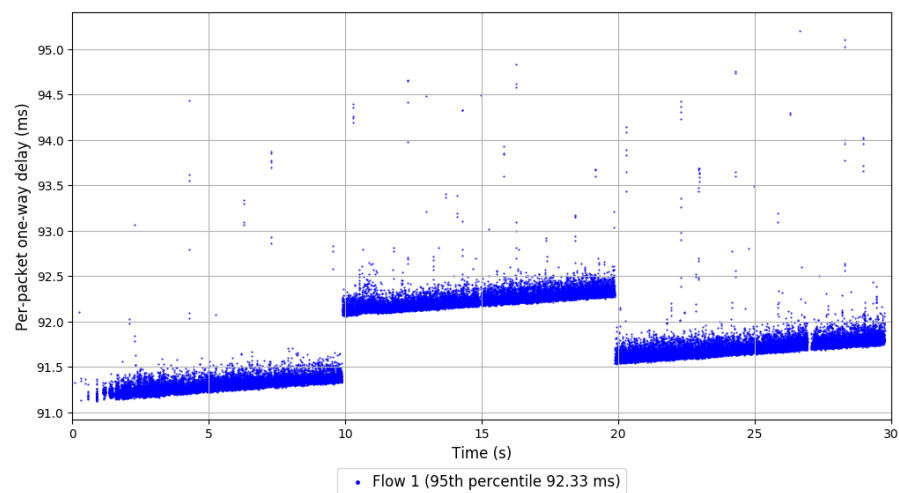
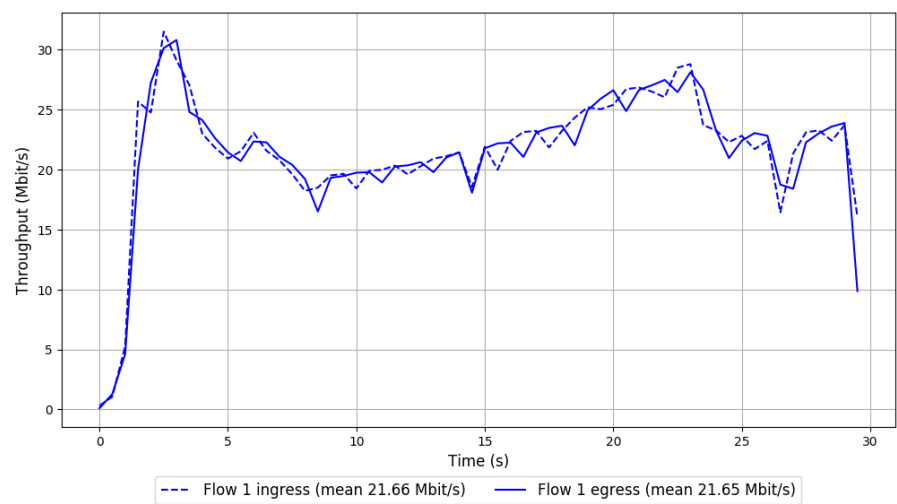
-- Flow 1:

Average throughput: 21.65 Mbit/s

95th percentile per-packet one-way delay: 92.326 ms

Loss rate: 0.78%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-12 20:43:10

End at: 2018-03-12 20:43:40

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.80 Mbit/s

95th percentile per-packet one-way delay: 93.670 ms

Loss rate: 0.95%

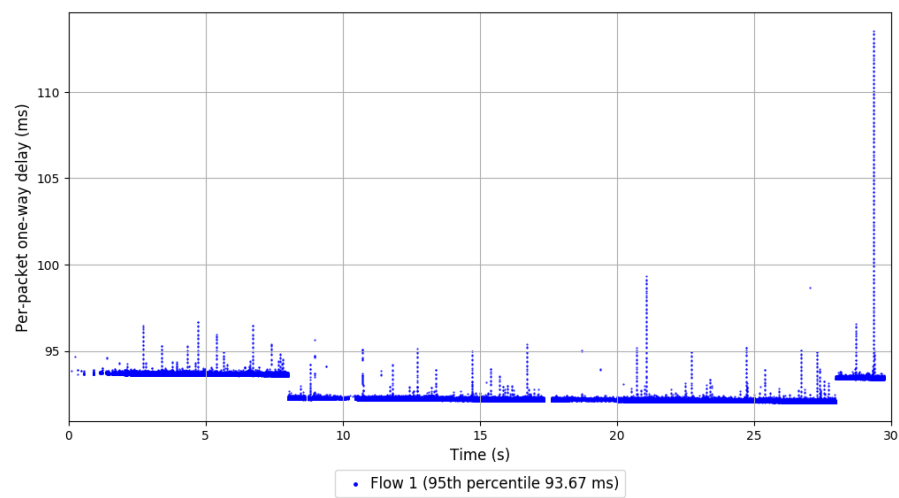
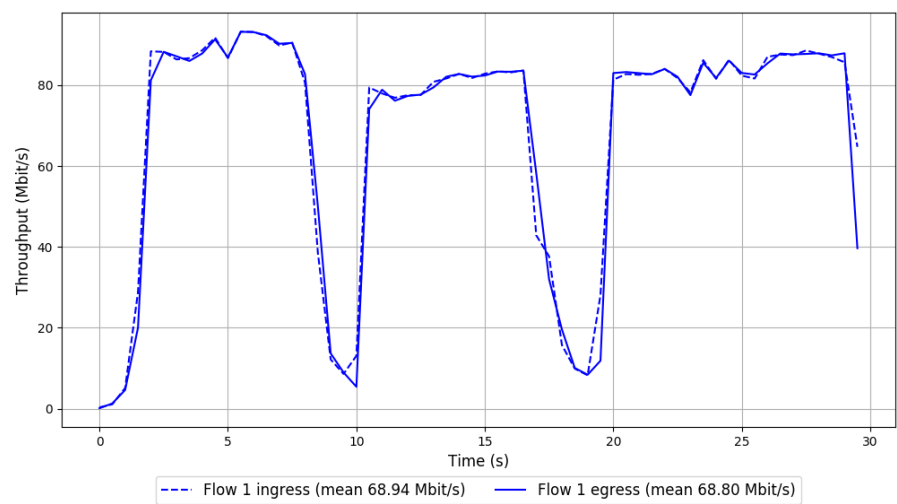
-- Flow 1:

Average throughput: 68.80 Mbit/s

95th percentile per-packet one-way delay: 93.670 ms

Loss rate: 0.95%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-12 20:58:35

End at: 2018-03-12 20:59:06

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.67 Mbit/s

95th percentile per-packet one-way delay: 83.133 ms

Loss rate: 0.96%

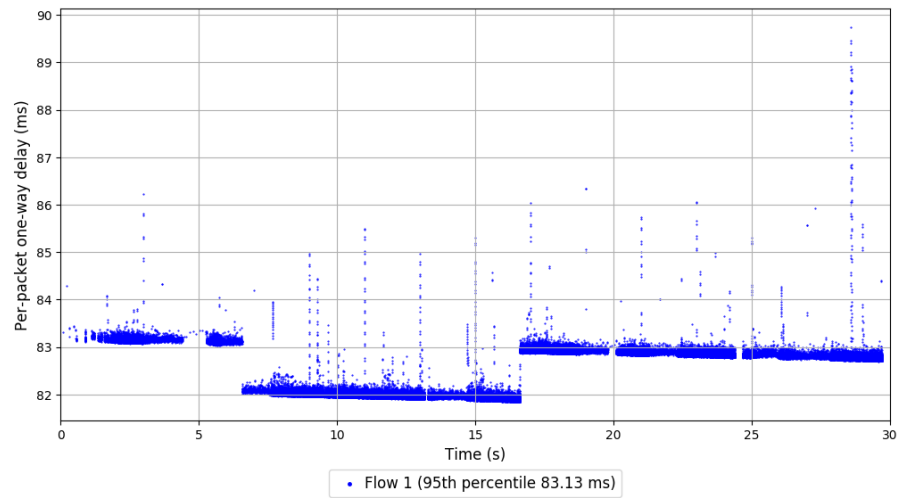
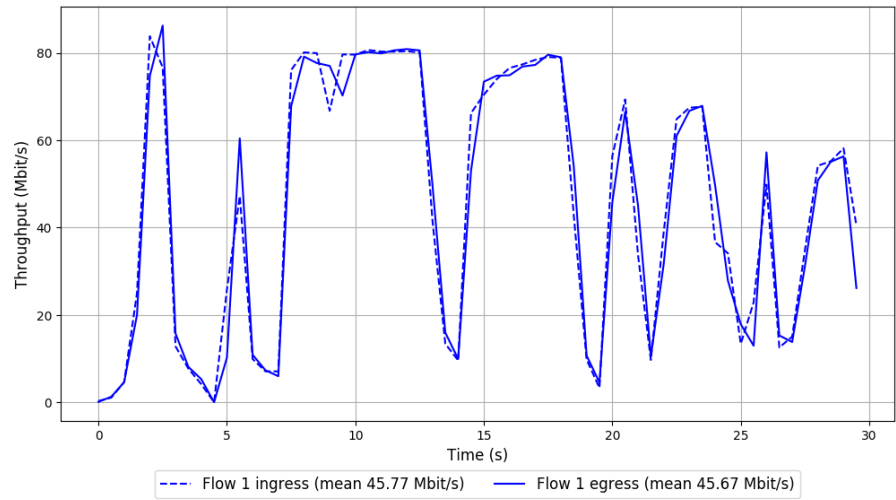
-- Flow 1:

Average throughput: 45.67 Mbit/s

95th percentile per-packet one-way delay: 83.133 ms

Loss rate: 0.96%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-12 21:13:56

End at: 2018-03-12 21:14:26

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.50 Mbit/s

95th percentile per-packet one-way delay: 97.853 ms

Loss rate: 0.96%

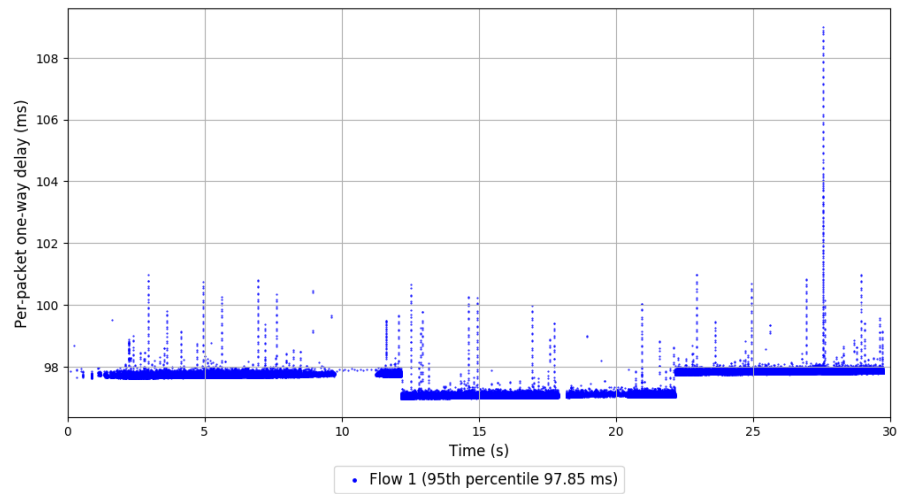
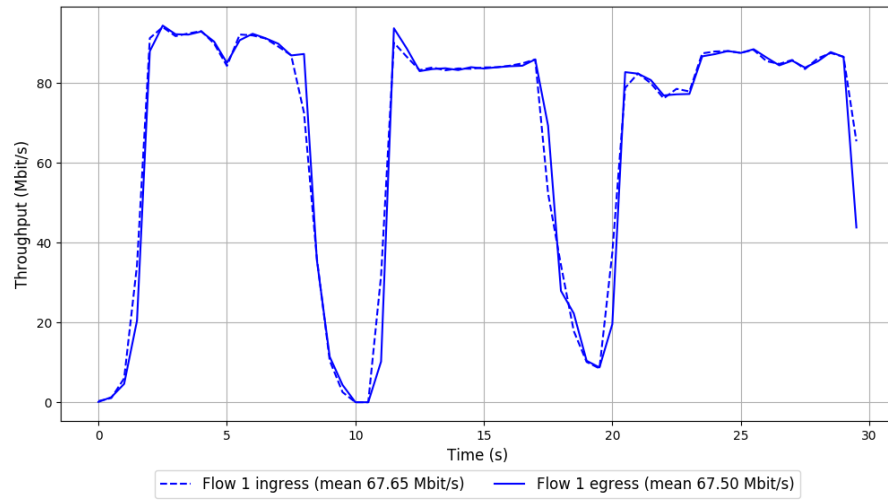
-- Flow 1:

Average throughput: 67.50 Mbit/s

95th percentile per-packet one-way delay: 97.853 ms

Loss rate: 0.96%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-12 21:29:29

End at: 2018-03-12 21:29:59

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.61 Mbit/s

95th percentile per-packet one-way delay: 96.841 ms

Loss rate: 0.99%

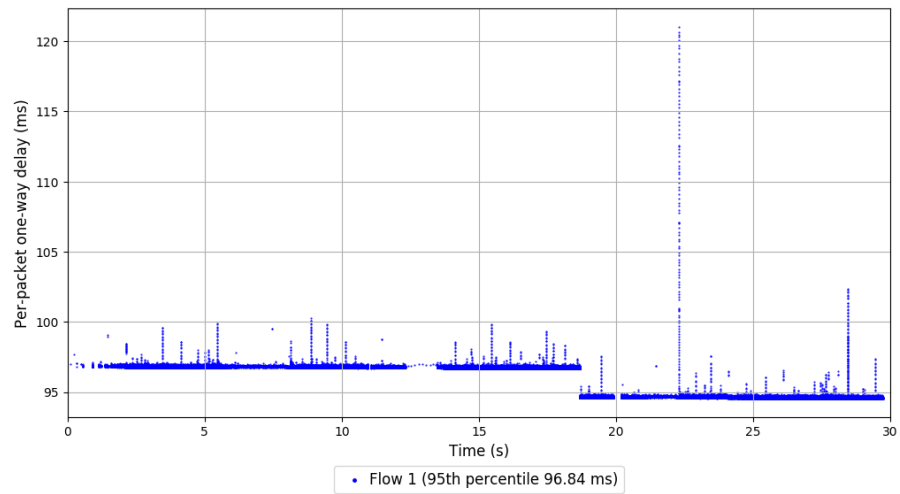
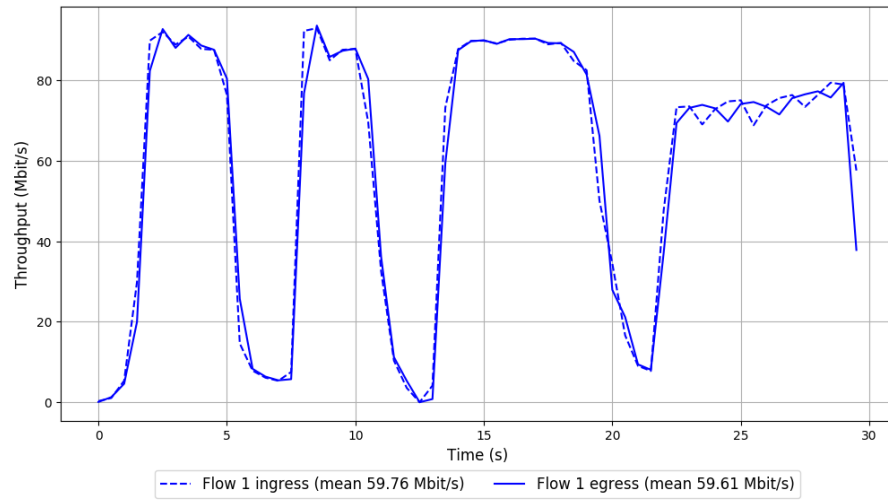
-- Flow 1:

Average throughput: 59.61 Mbit/s

95th percentile per-packet one-way delay: 96.841 ms

Loss rate: 0.99%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-12 21:45:16

End at: 2018-03-12 21:45:46

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.73 Mbit/s

95th percentile per-packet one-way delay: 104.969 ms

Loss rate: 0.92%

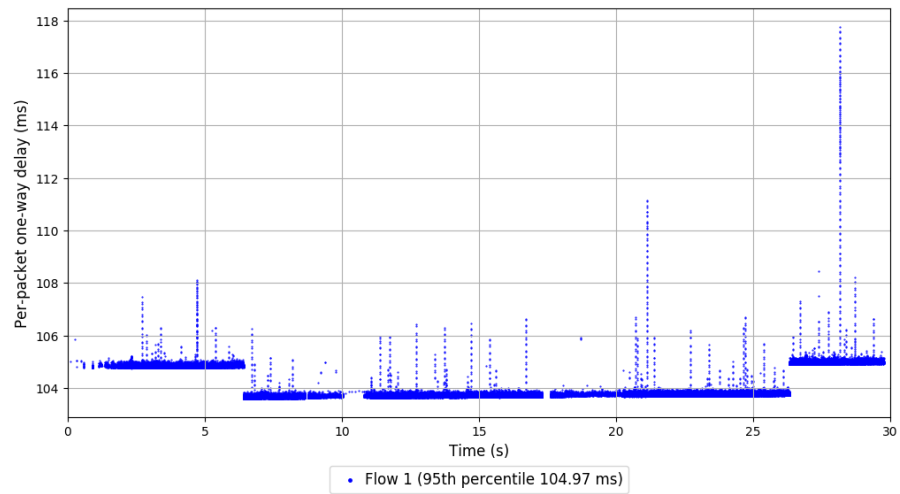
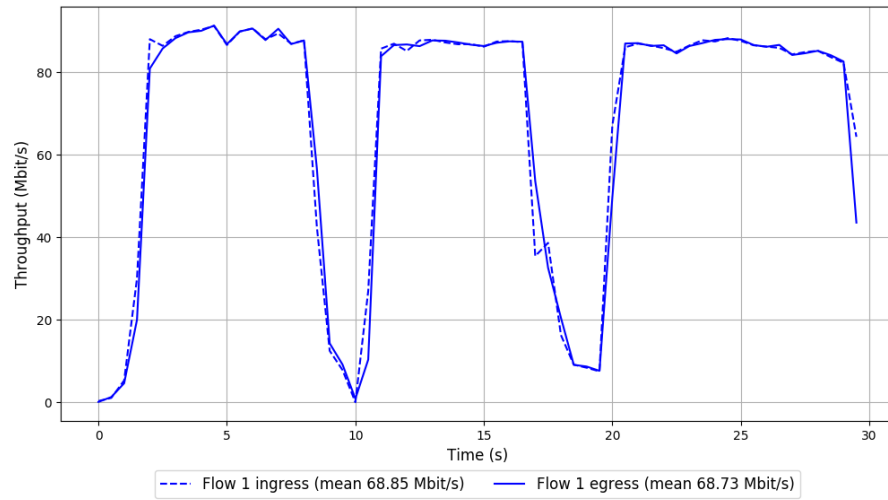
-- Flow 1:

Average throughput: 68.73 Mbit/s

95th percentile per-packet one-way delay: 104.969 ms

Loss rate: 0.92%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-12 22:01:10

End at: 2018-03-12 22:01:40

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 104.172 ms

Loss rate: 1.08%

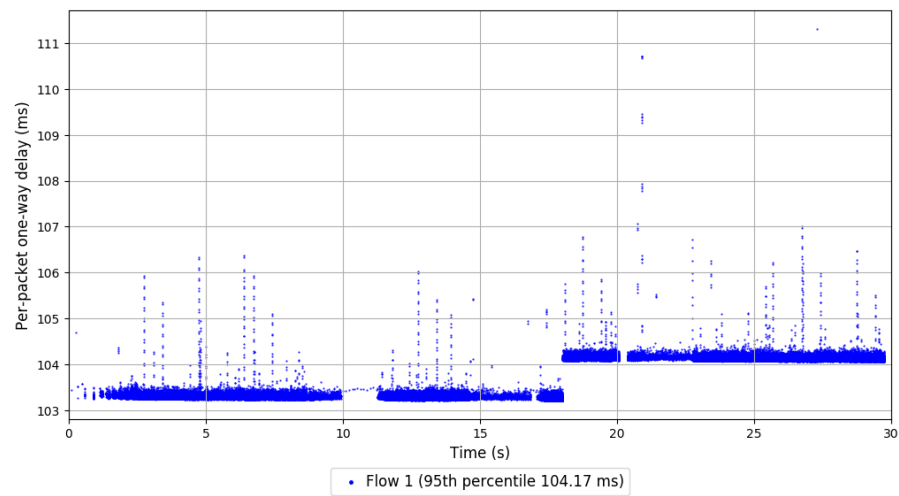
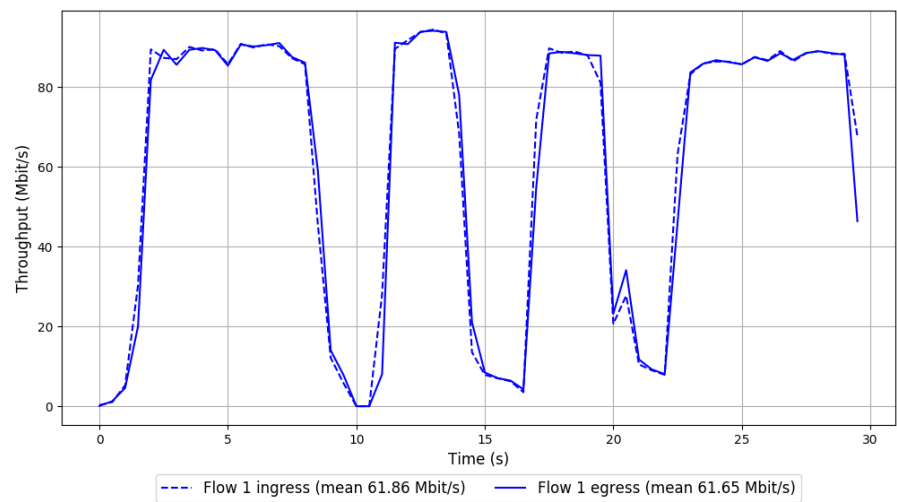
-- Flow 1:

Average throughput: 61.65 Mbit/s

95th percentile per-packet one-way delay: 104.172 ms

Loss rate: 1.08%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-12 22:16:39

End at: 2018-03-12 22:17:09

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.12 Mbit/s

95th percentile per-packet one-way delay: 108.088 ms

Loss rate: 1.00%

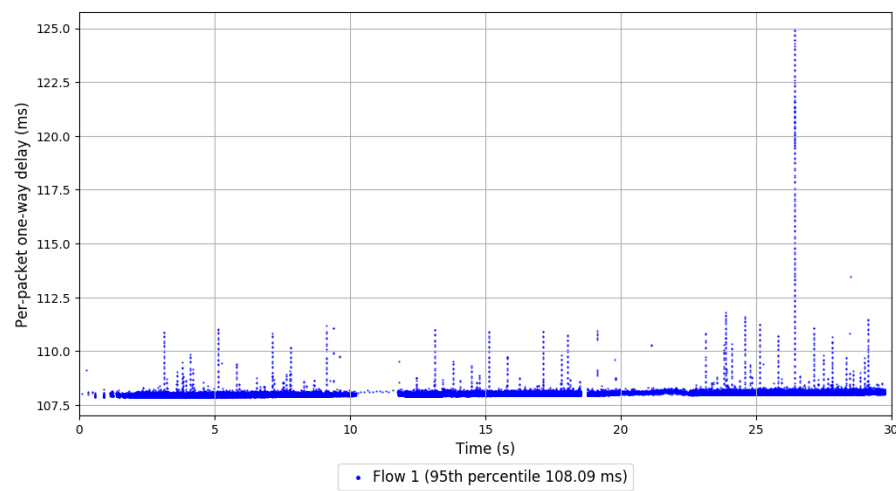
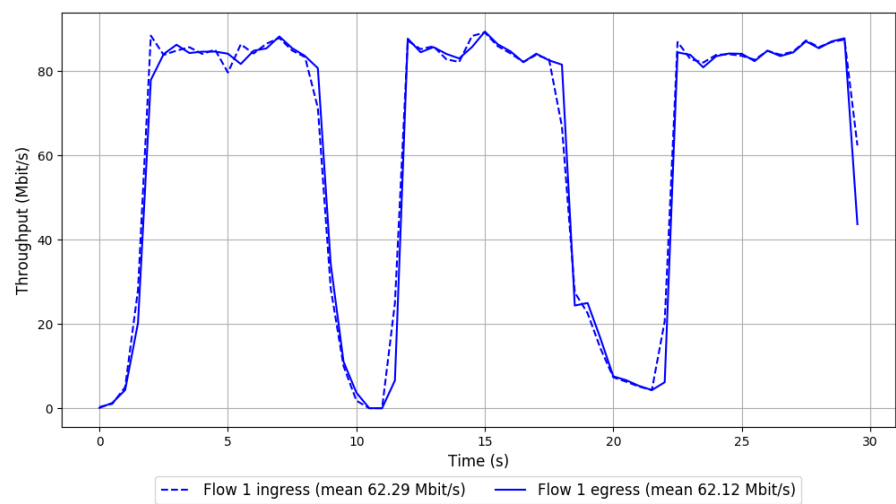
-- Flow 1:

Average throughput: 62.12 Mbit/s

95th percentile per-packet one-way delay: 108.088 ms

Loss rate: 1.00%

Run 10: Report of QUIC Cubic — Data Link

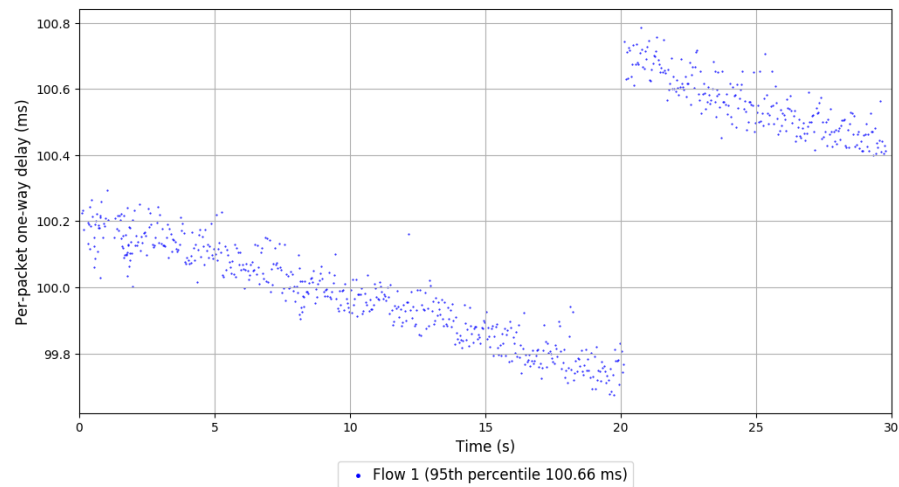
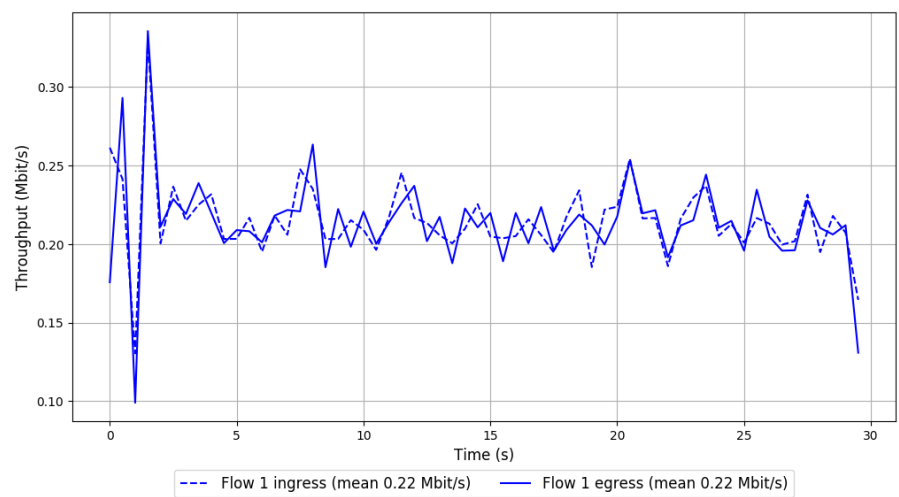


```
Run 1: Statistics of SCReAM

Start at: 2018-03-12 20:08:12
End at: 2018-03-12 20:08:42

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.659 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.659 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

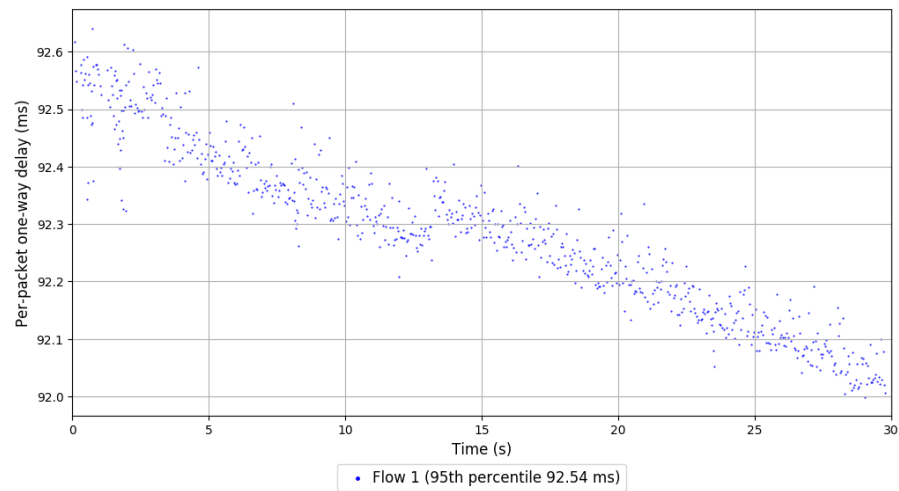
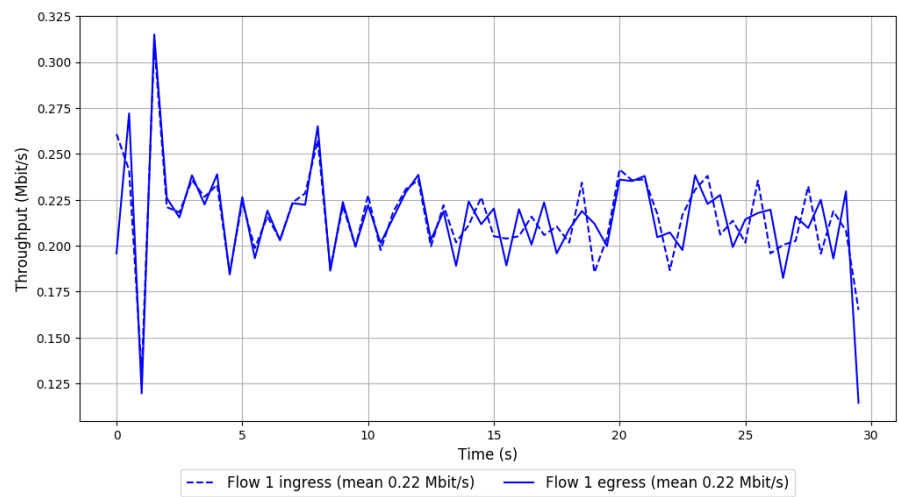


```
Run 2: Statistics of SCReAM

Start at: 2018-03-12 20:23:35
End at: 2018-03-12 20:24:05

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.543 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 92.543 ms
Loss rate: 0.64%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-12 20:39:02

End at: 2018-03-12 20:39:32

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 96.194 ms

Loss rate: 0.77%

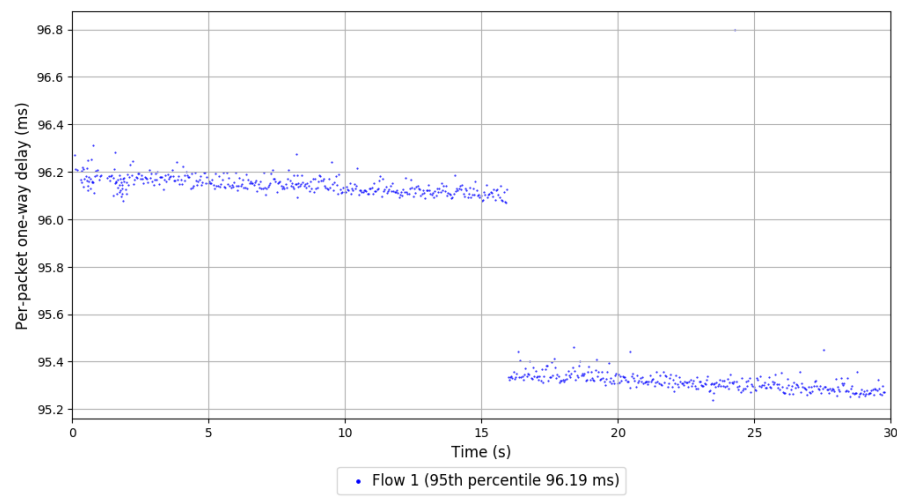
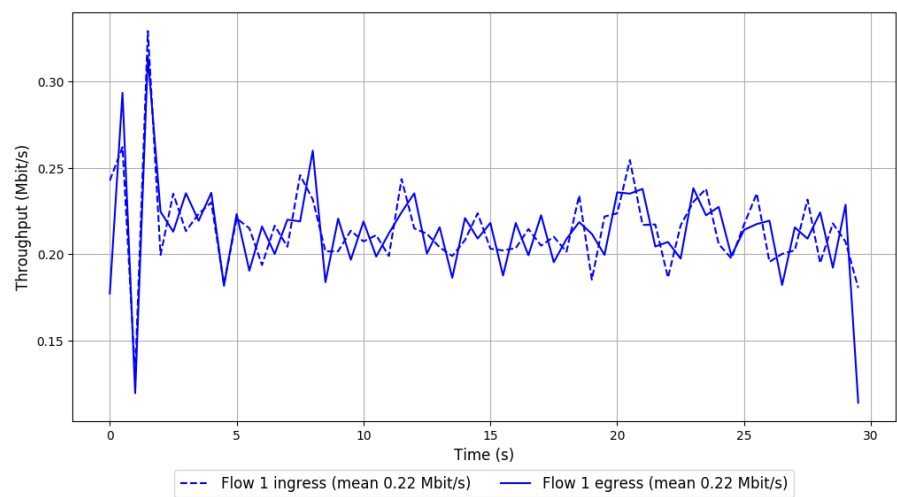
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 96.194 ms

Loss rate: 0.77%

Run 3: Report of SReAM — Data Link

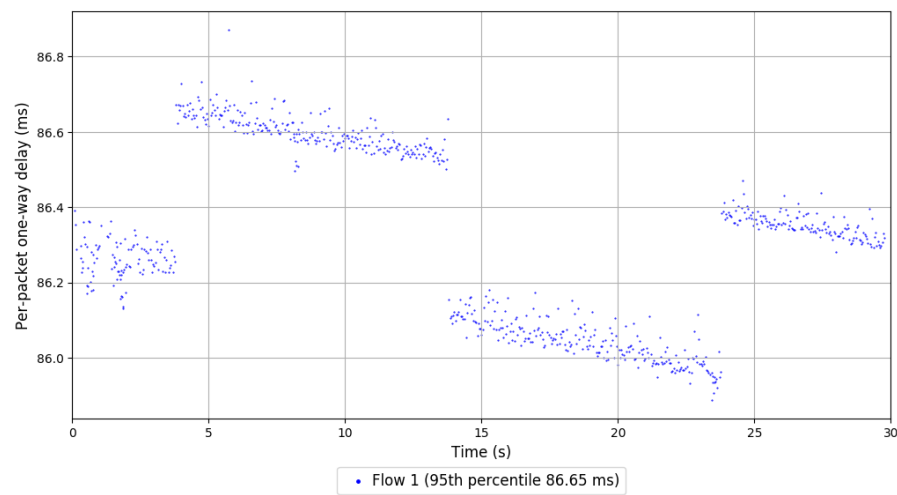
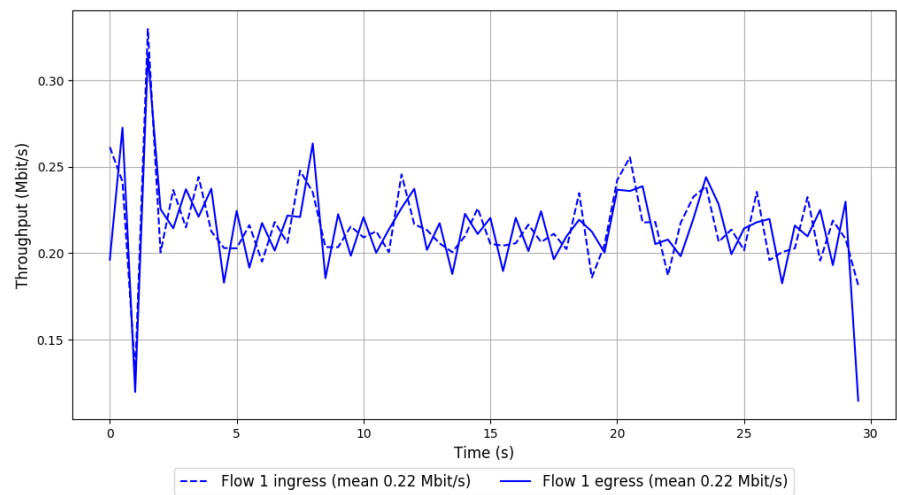


```
Run 4: Statistics of SCReAM

Start at: 2018-03-12 20:54:28
End at: 2018-03-12 20:54:58

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.652 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.652 ms
Loss rate: 0.76%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-12 21:09:49

End at: 2018-03-12 21:10:19

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 97.031 ms

Loss rate: 0.73%

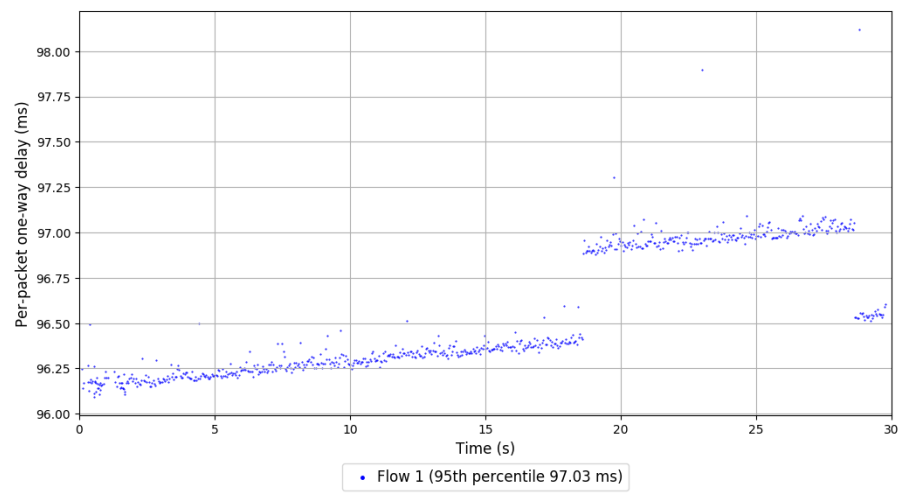
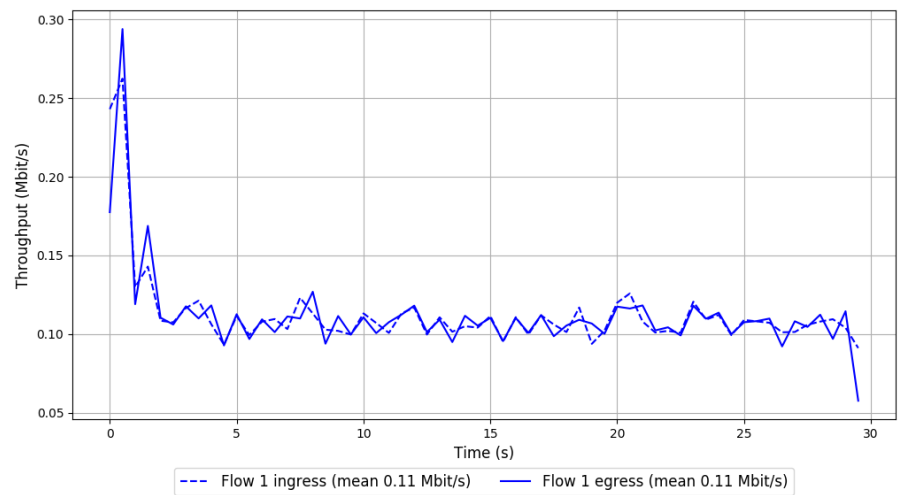
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 97.031 ms

Loss rate: 0.73%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-12 21:25:21

End at: 2018-03-12 21:25:51

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.883 ms

Loss rate: 0.77%

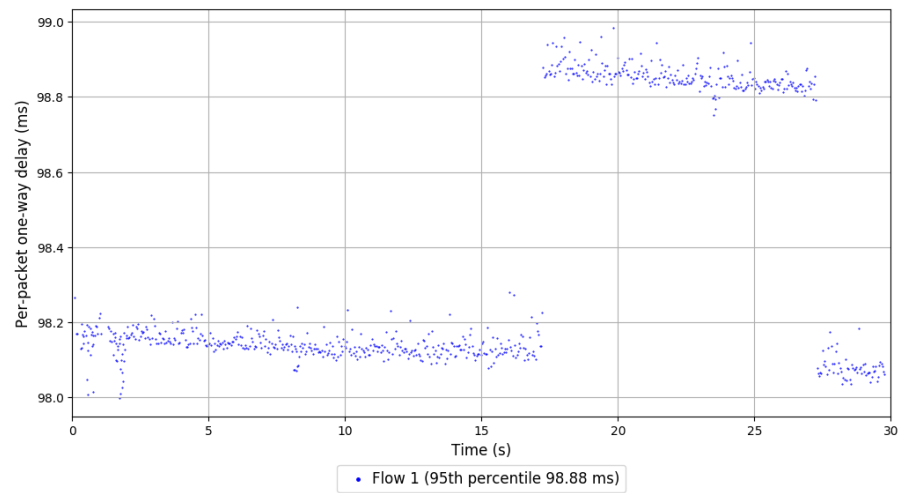
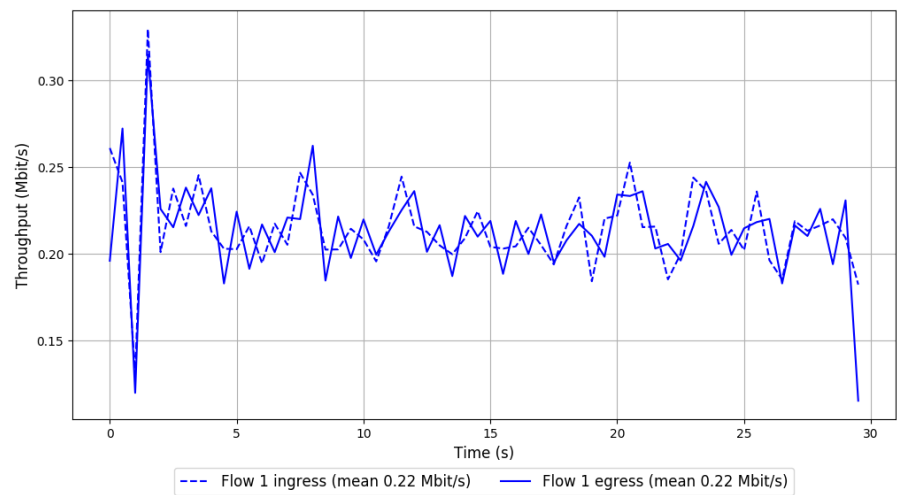
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.883 ms

Loss rate: 0.77%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-12 21:41:08

End at: 2018-03-12 21:41:38

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 103.176 ms

Loss rate: 0.77%

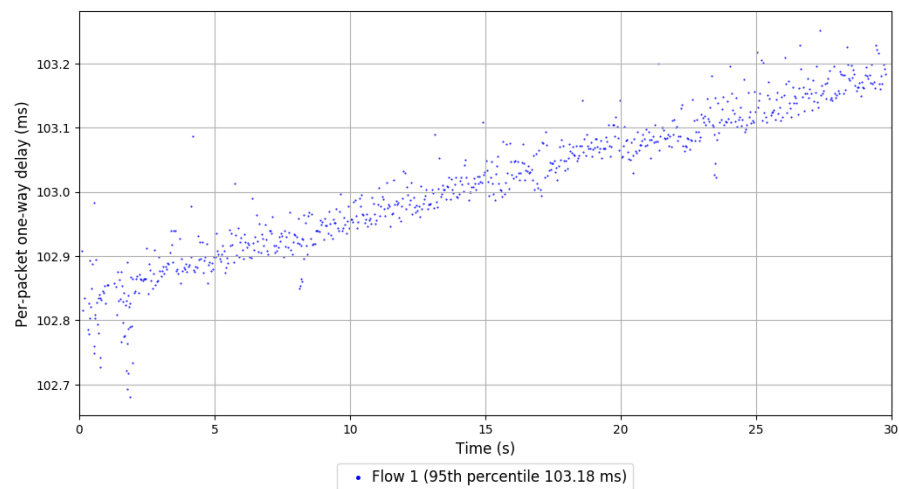
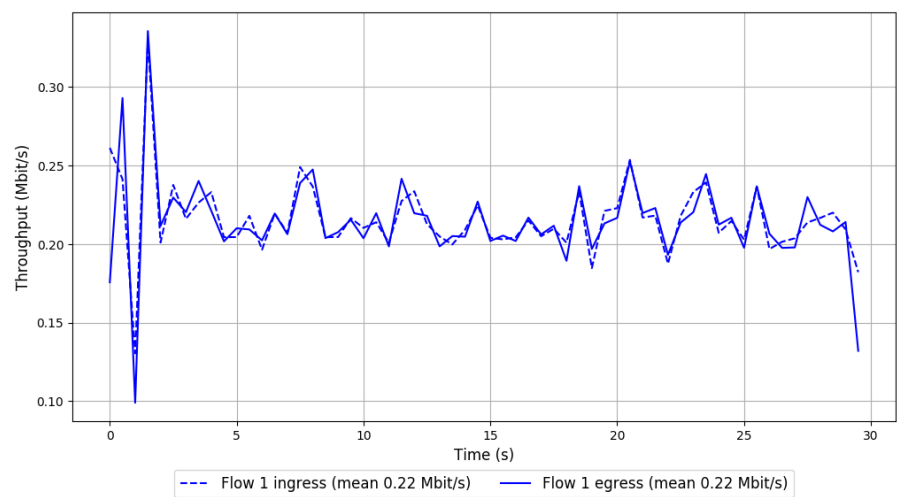
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 103.176 ms

Loss rate: 0.77%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-12 21:57:03

End at: 2018-03-12 21:57:33

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 108.165 ms

Loss rate: 0.73%

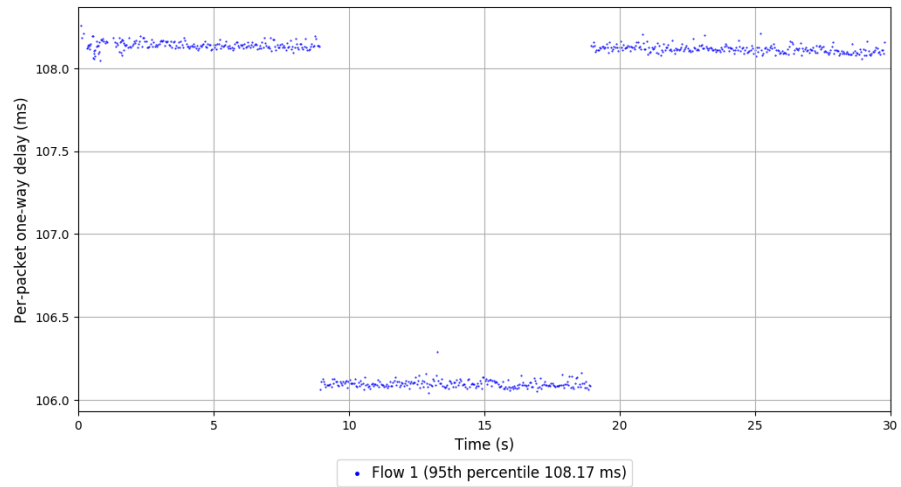
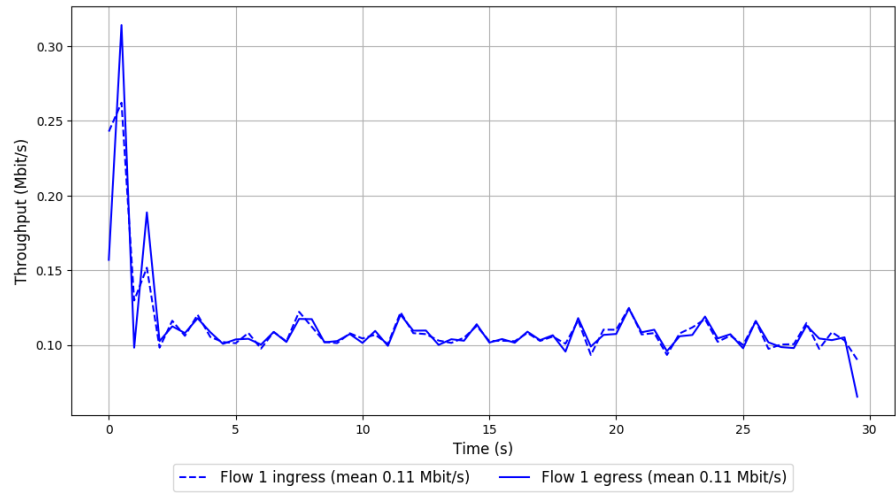
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 108.165 ms

Loss rate: 0.73%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-12 22:12:33

End at: 2018-03-12 22:13:03

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.393 ms

Loss rate: 0.76%

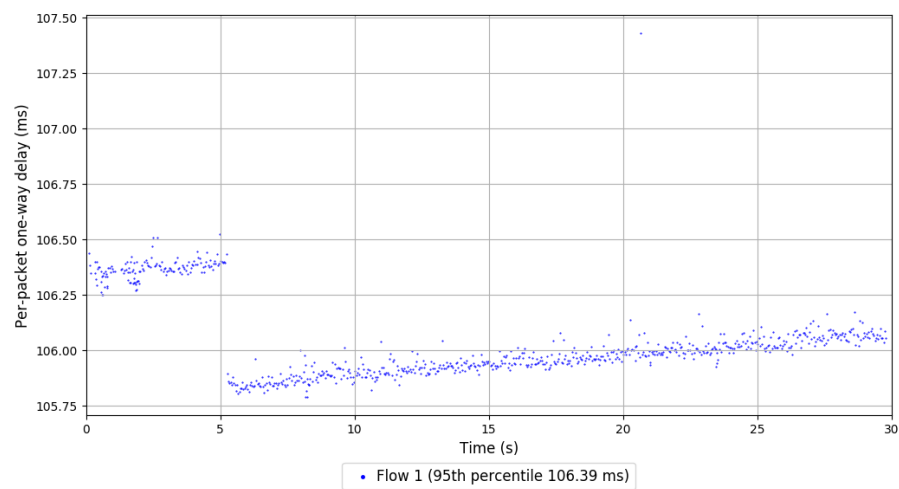
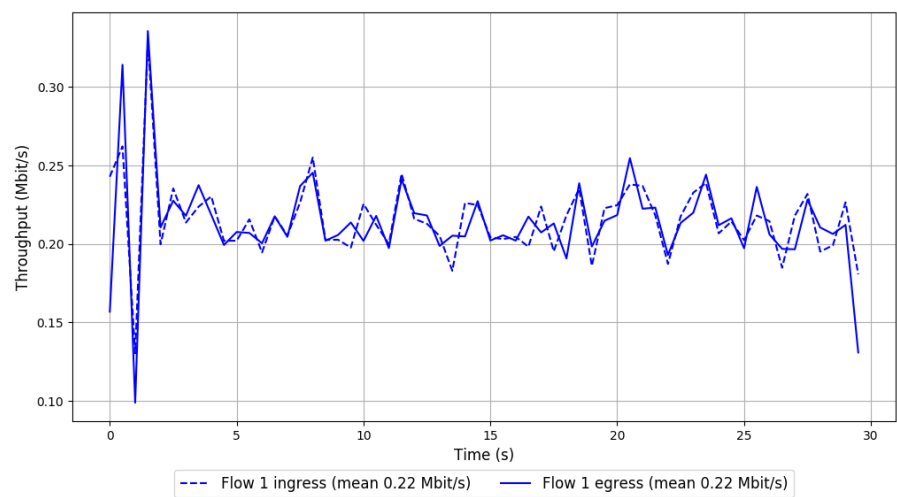
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.393 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link

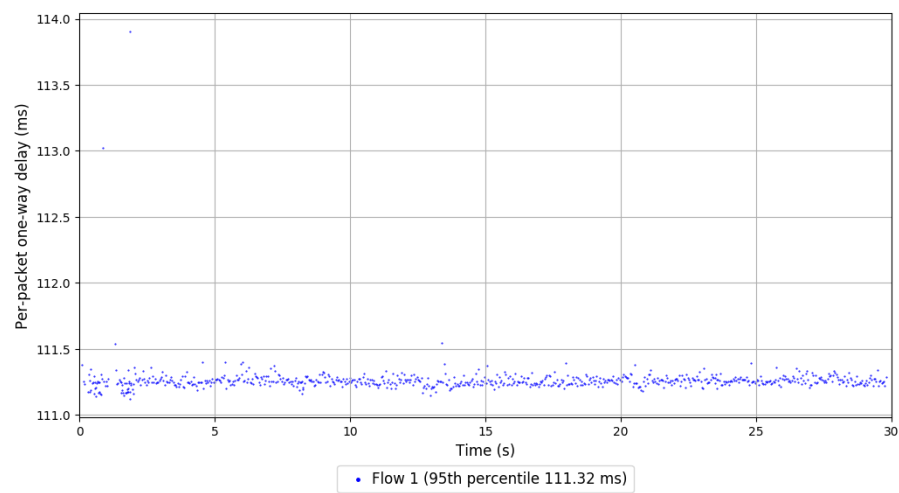
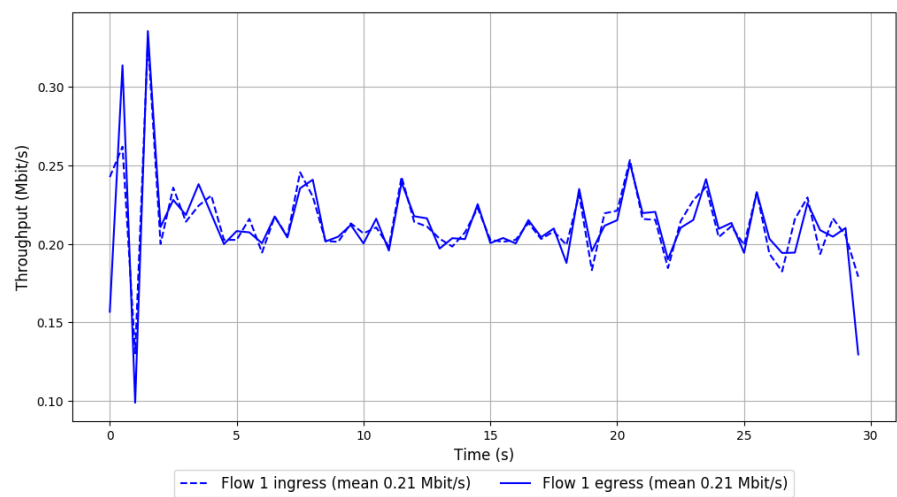


```
Run 10: Statistics of SReAM

Start at: 2018-03-12 22:28:02
End at: 2018-03-12 22:28:32

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.324 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 111.324 ms
Loss rate: 0.76%
```

Run 10: Report of SCReAM — Data Link

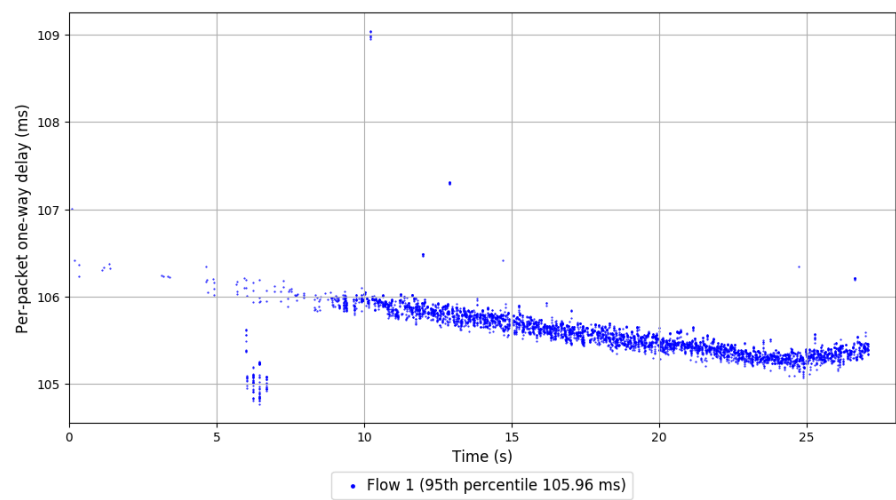
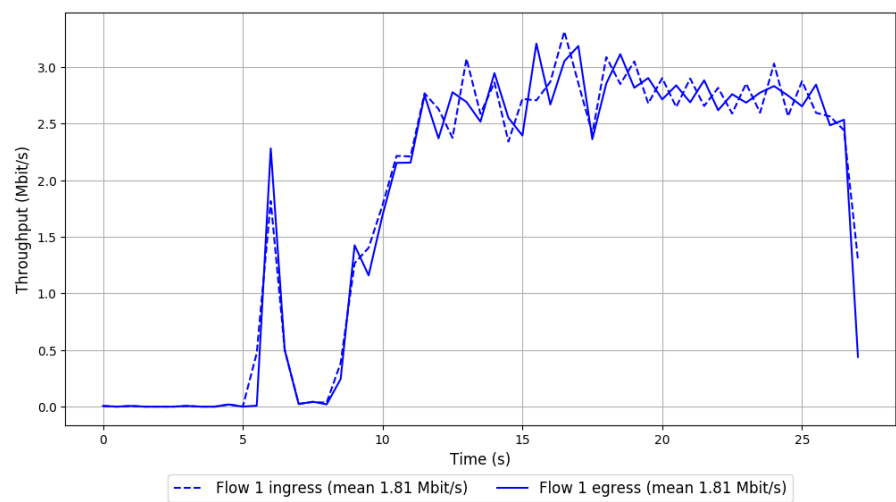


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-12 19:56:30
End at: 2018-03-12 19:57:00

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 105.960 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 105.960 ms
Loss rate: 1.32%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-12 20:11:39

End at: 2018-03-12 20:12:09

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 101.843 ms

Loss rate: 0.92%

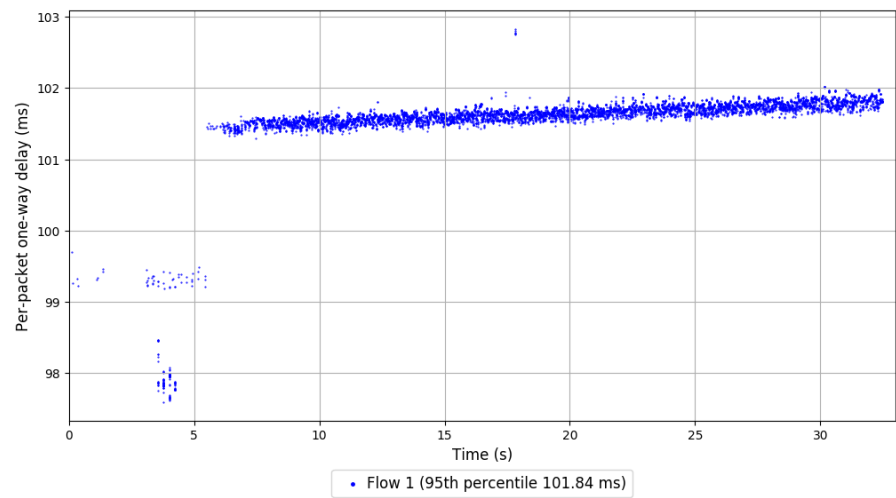
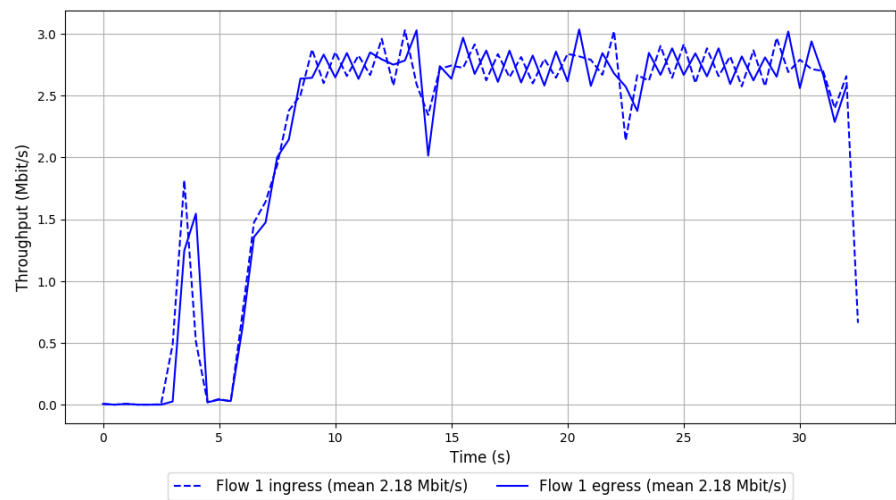
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 101.843 ms

Loss rate: 0.92%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-12 20:27:01

End at: 2018-03-12 20:27:31

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 92.717 ms

Loss rate: 0.77%

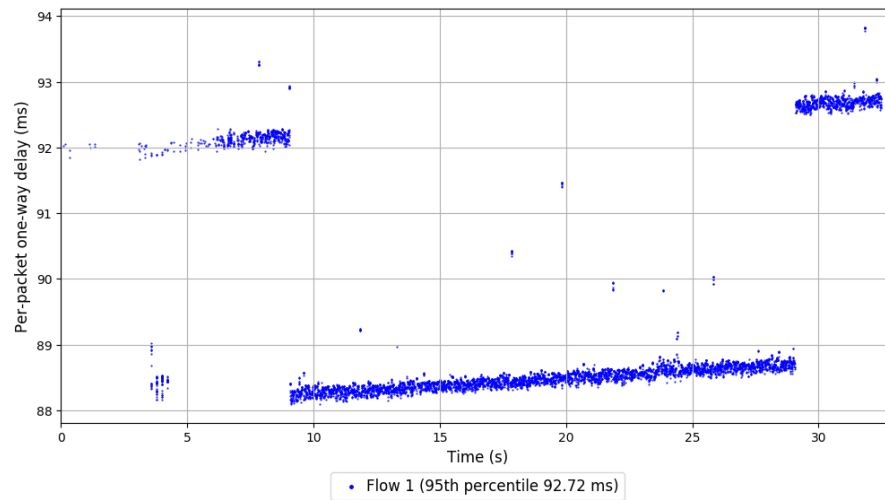
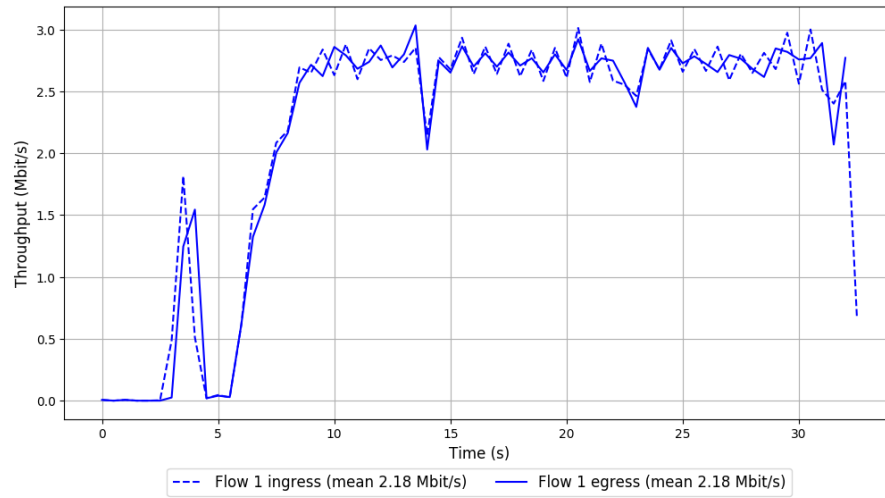
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 92.717 ms

Loss rate: 0.77%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-12 20:42:29

End at: 2018-03-12 20:42:59

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 93.908 ms

Loss rate: 0.93%

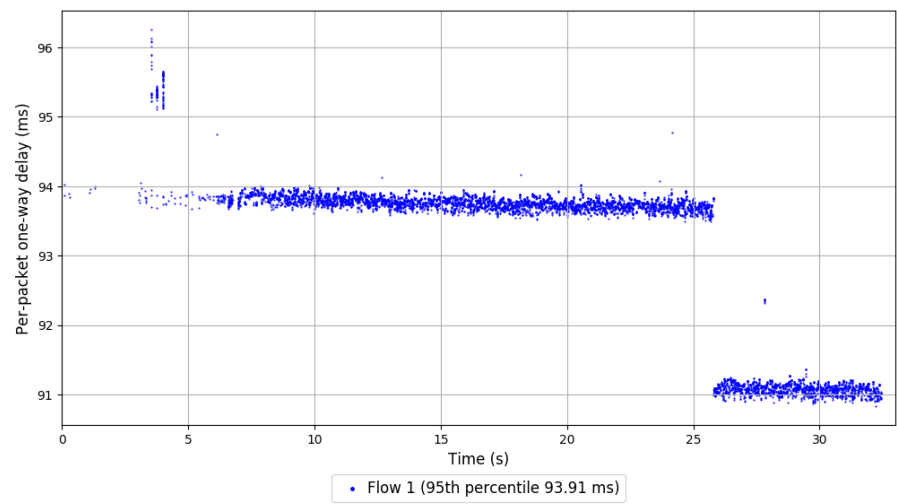
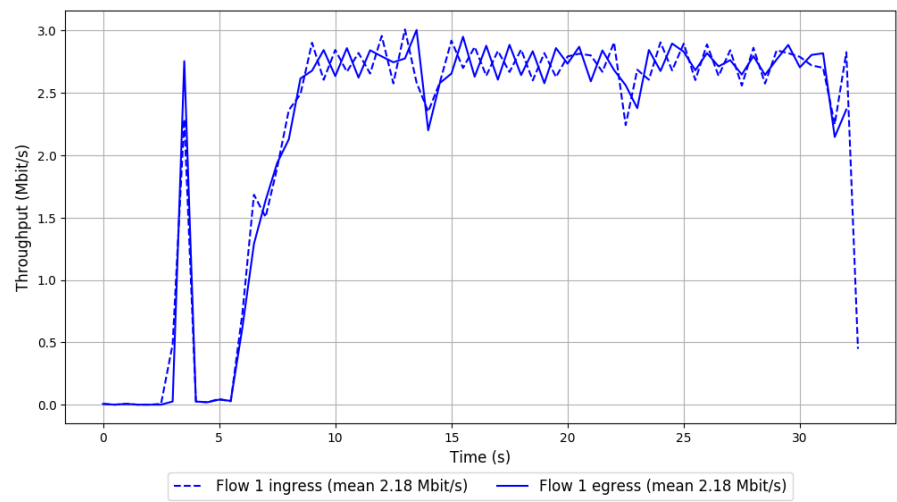
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 93.908 ms

Loss rate: 0.93%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-12 20:57:55

End at: 2018-03-12 20:58:25

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 83.148 ms

Loss rate: 0.93%

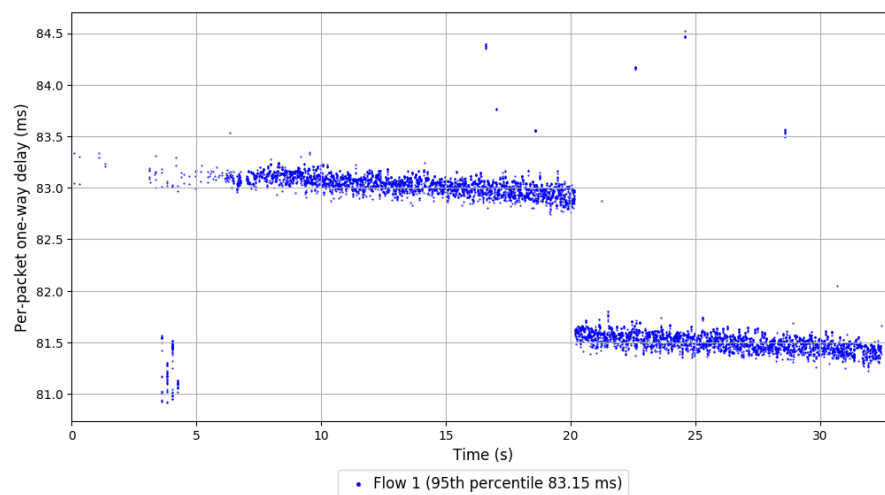
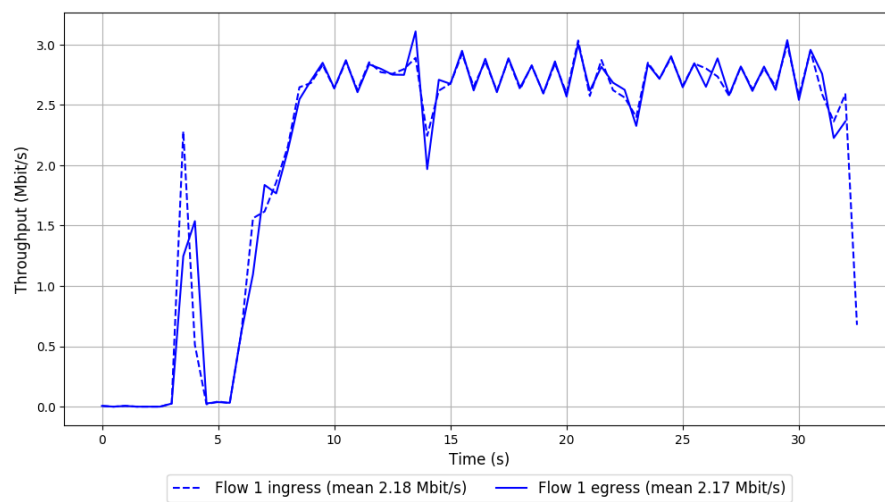
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 83.148 ms

Loss rate: 0.93%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-12 21:13:15

End at: 2018-03-12 21:13:45

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 99.620 ms

Loss rate: 0.93%

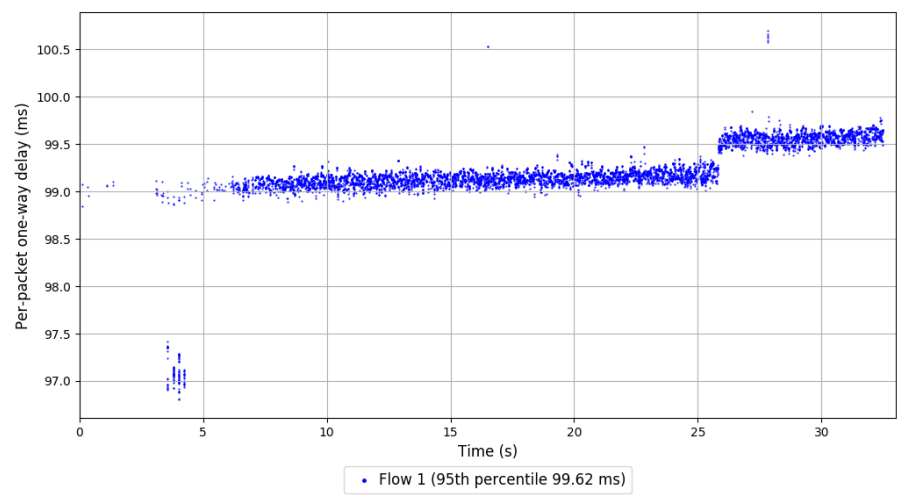
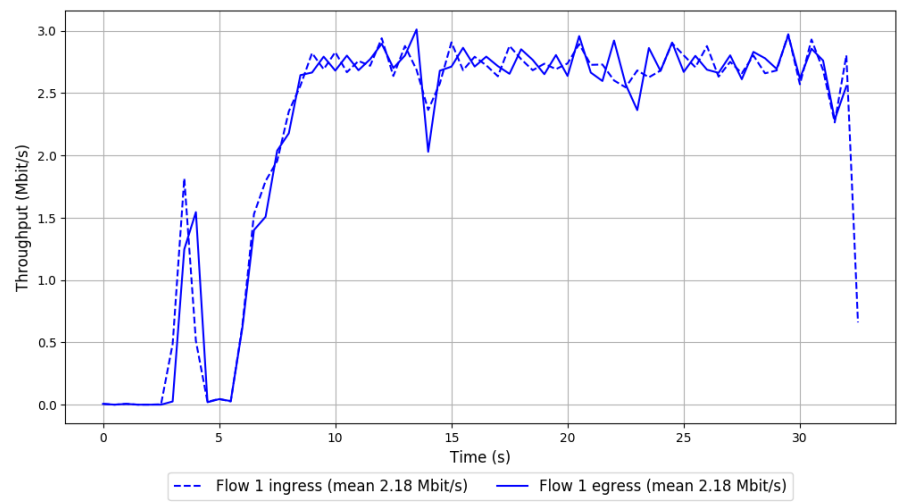
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 99.620 ms

Loss rate: 0.93%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-12 21:28:48

End at: 2018-03-12 21:29:18

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 99.929 ms

Loss rate: 0.88%

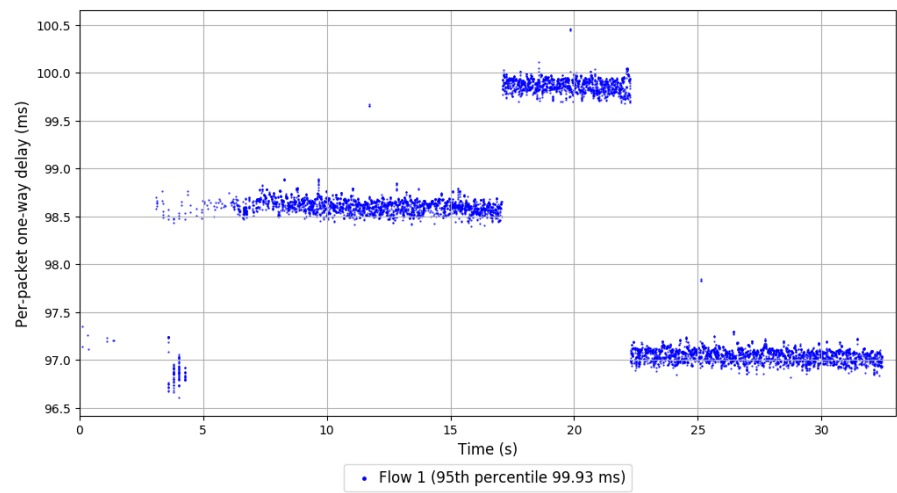
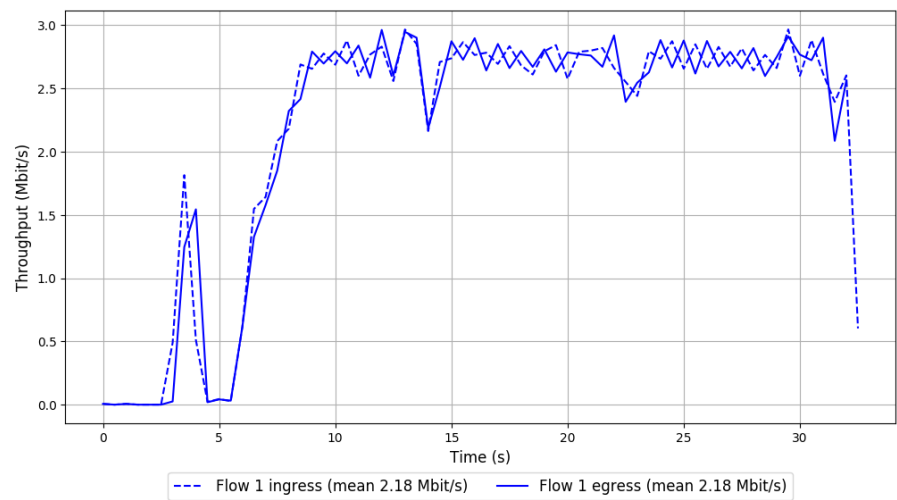
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 99.929 ms

Loss rate: 0.88%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-12 21:44:35

End at: 2018-03-12 21:45:05

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 103.767 ms

Loss rate: 0.93%

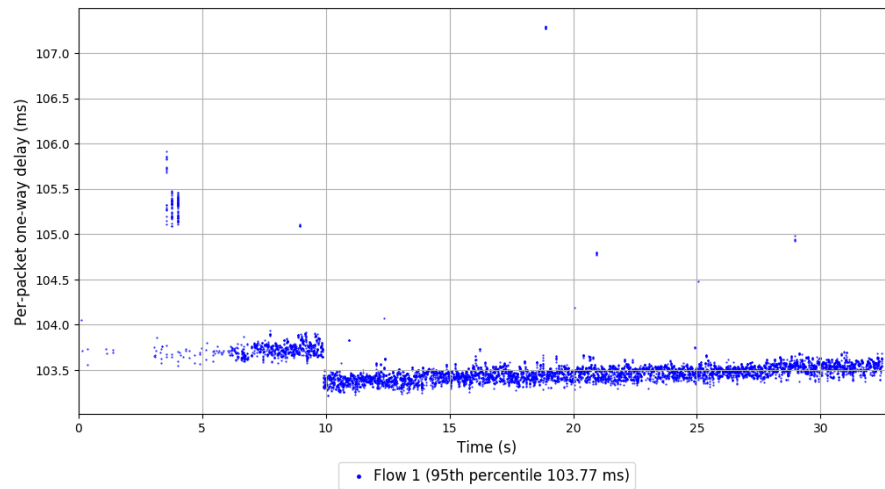
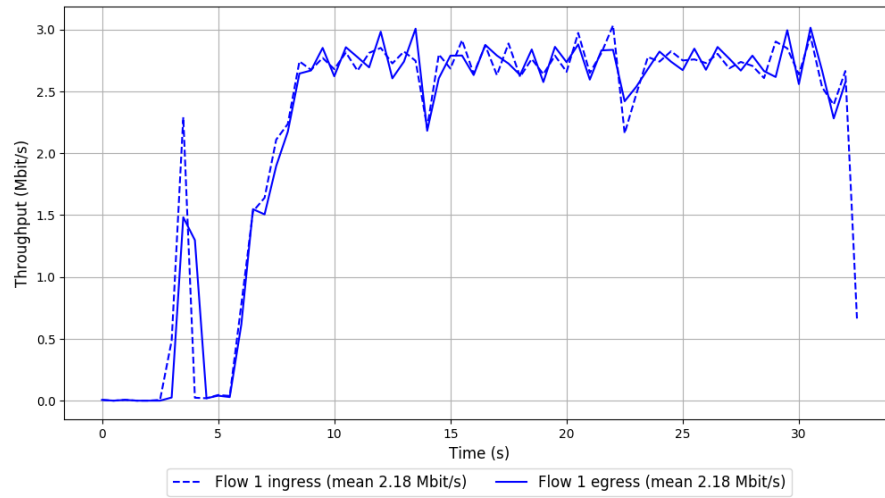
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 103.767 ms

Loss rate: 0.93%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-12 22:00:29

End at: 2018-03-12 22:00:59

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 106.816 ms

Loss rate: 0.89%

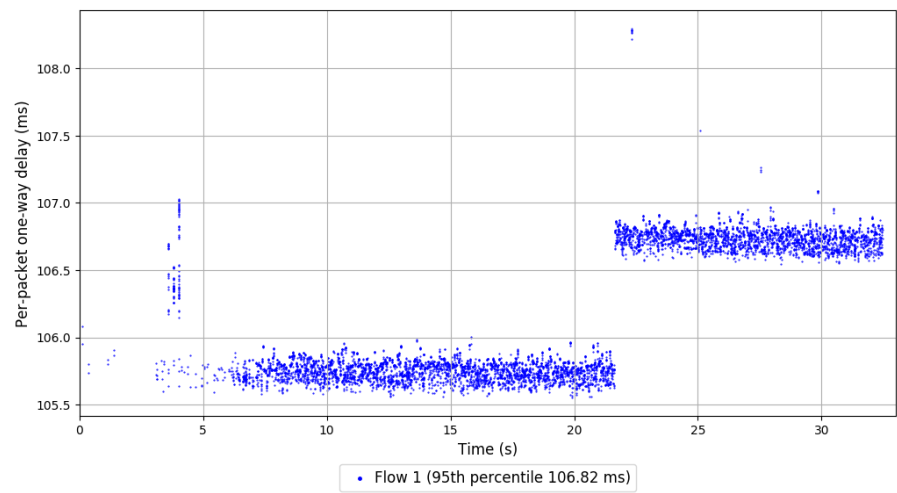
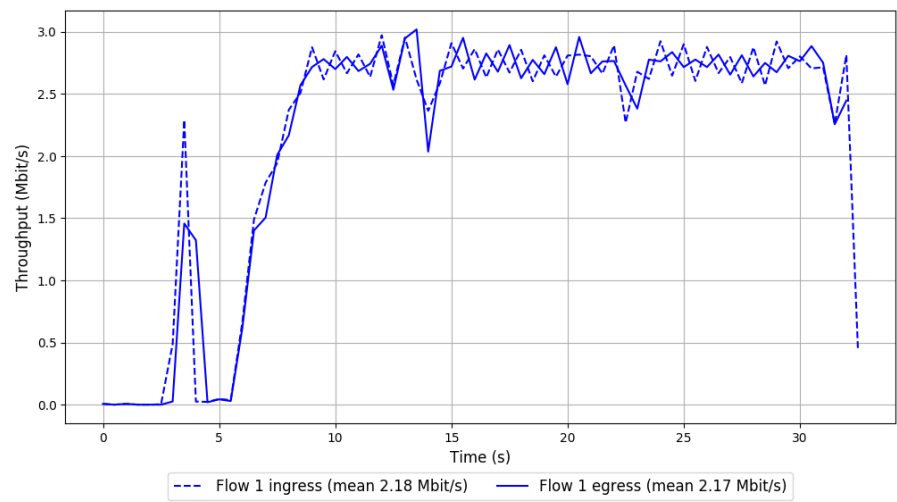
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 106.816 ms

Loss rate: 0.89%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-12 22:15:59

End at: 2018-03-12 22:16:29

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 108.868 ms

Loss rate: 0.92%

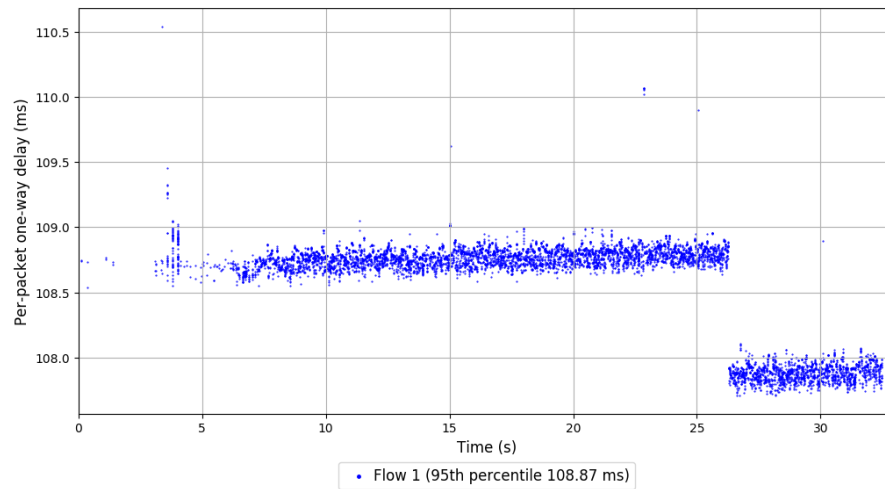
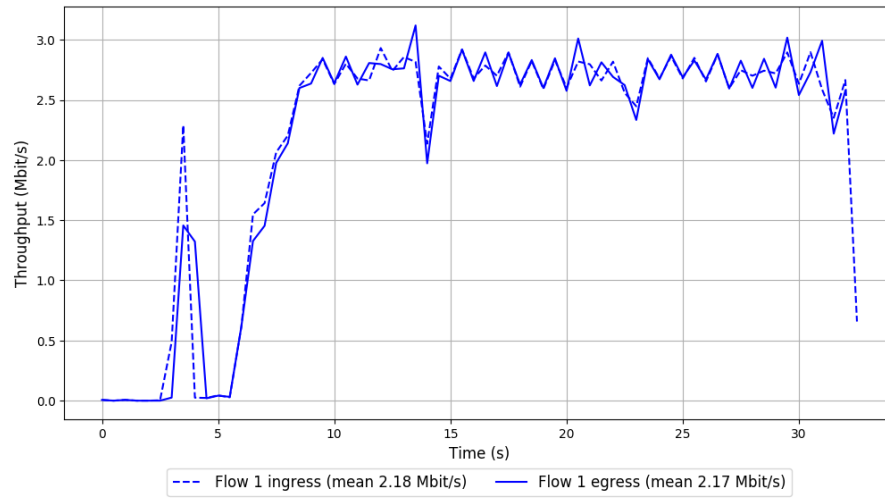
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 108.868 ms

Loss rate: 0.92%

Run 10: Report of WebRTC media — Data Link

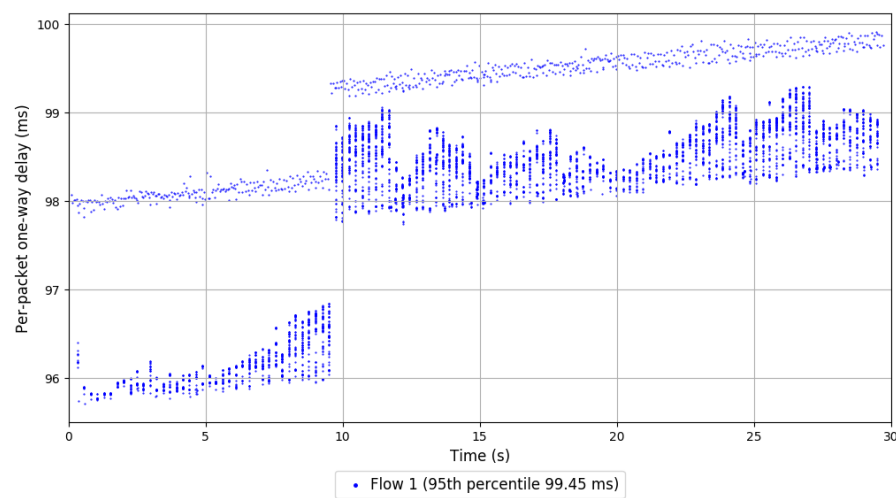
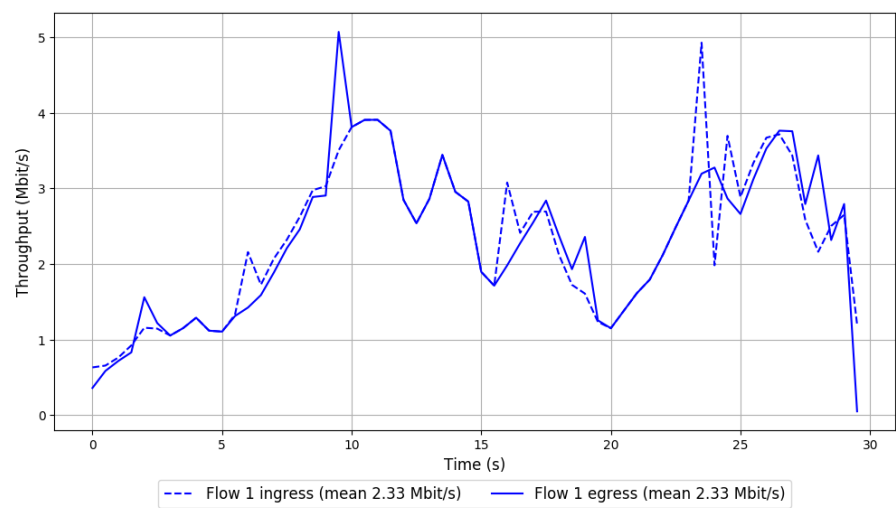


```
Run 1: Statistics of Sprout

Start at: 2018-03-12 20:10:08
End at: 2018-03-12 20:10:38

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 99.449 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 99.449 ms
Loss rate: 0.86%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-12 20:25:31

End at: 2018-03-12 20:26:01

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 91.990 ms

Loss rate: 1.03%

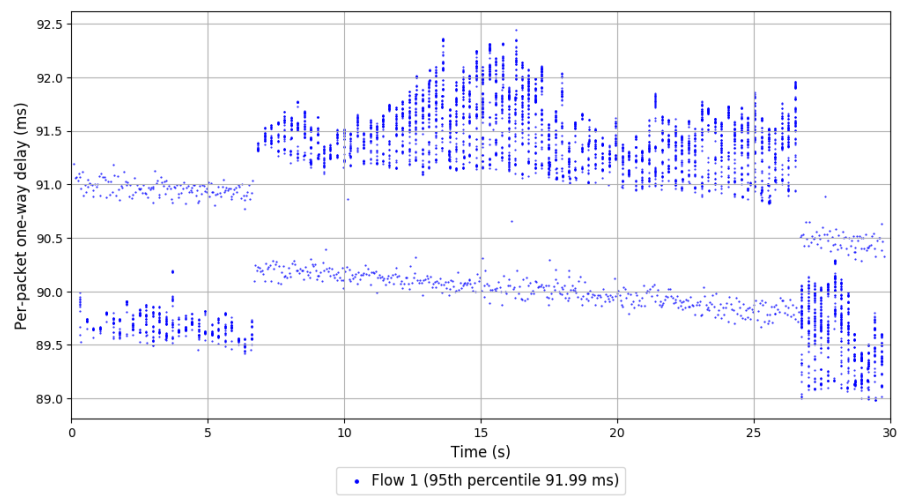
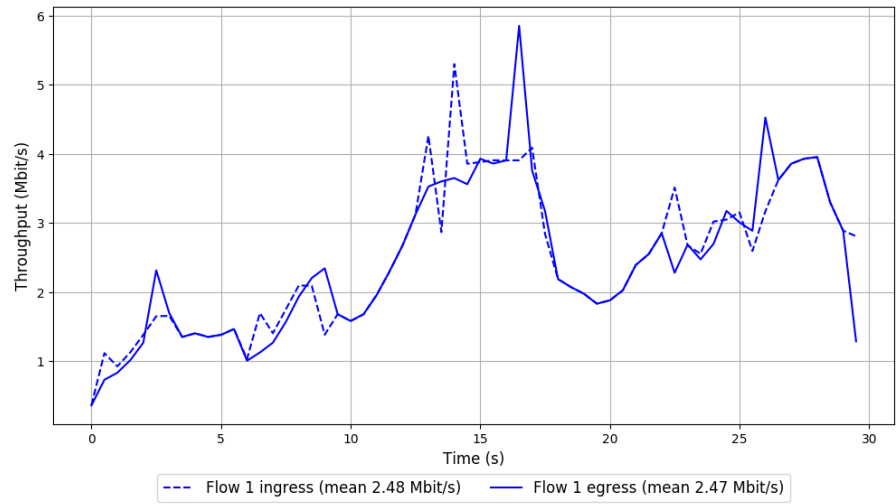
-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 91.990 ms

Loss rate: 1.03%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-12 20:40:58

End at: 2018-03-12 20:41:28

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 96.786 ms

Loss rate: 1.51%

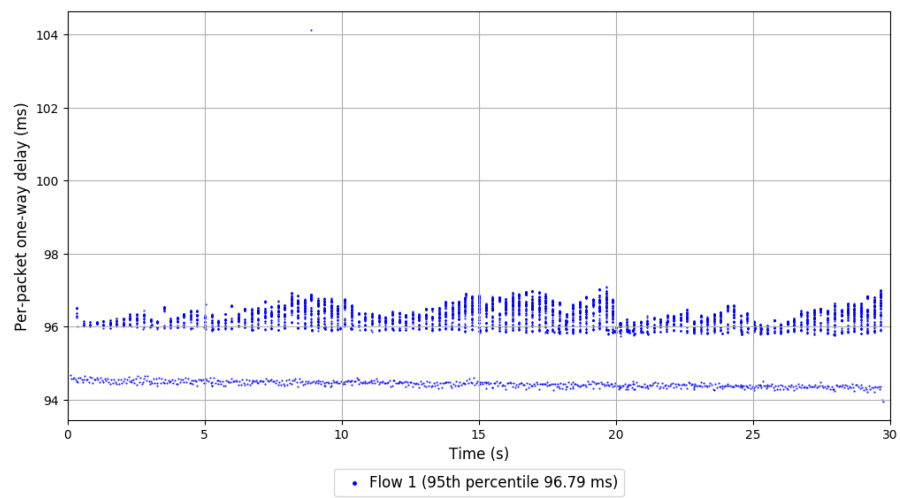
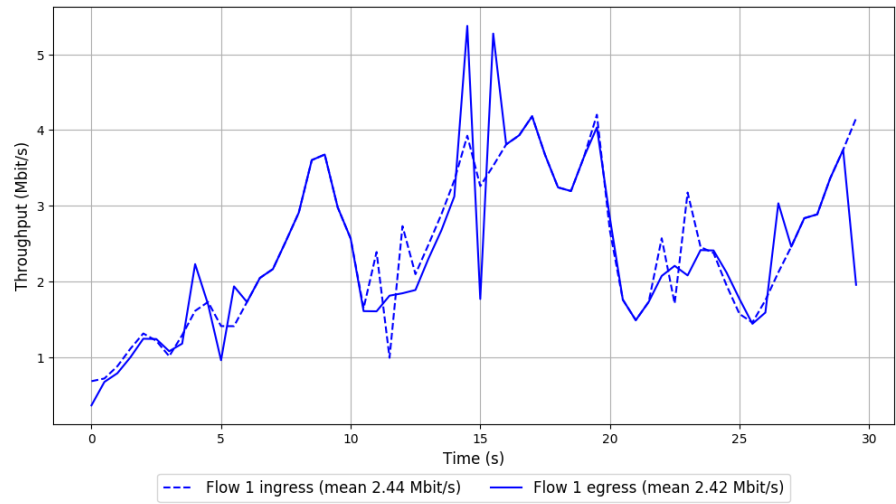
-- Flow 1:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 96.786 ms

Loss rate: 1.51%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-12 20:56:23

End at: 2018-03-12 20:56:53

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 85.838 ms

Loss rate: 0.80%

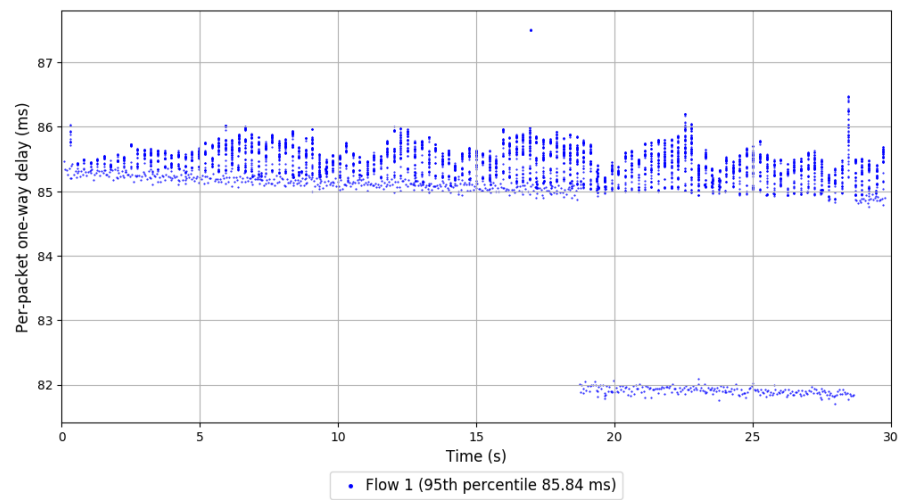
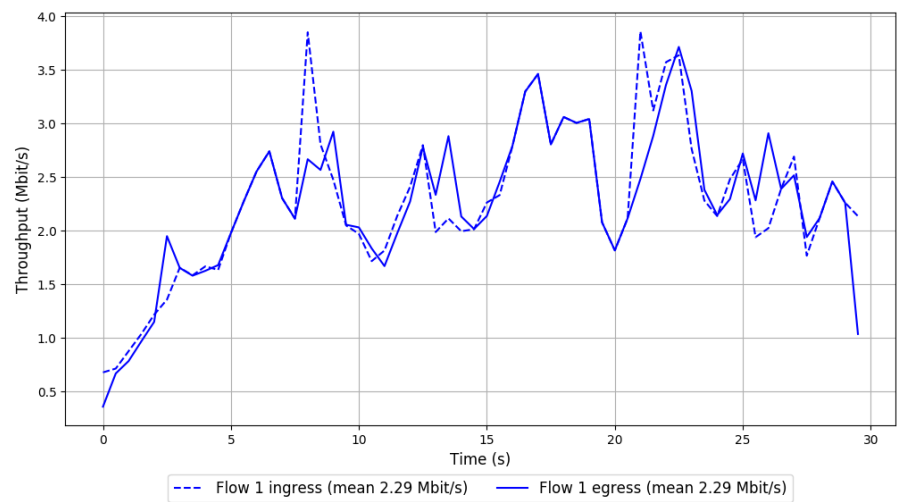
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 85.838 ms

Loss rate: 0.80%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-12 21:11:45

End at: 2018-03-12 21:12:15

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 99.333 ms

Loss rate: 1.33%

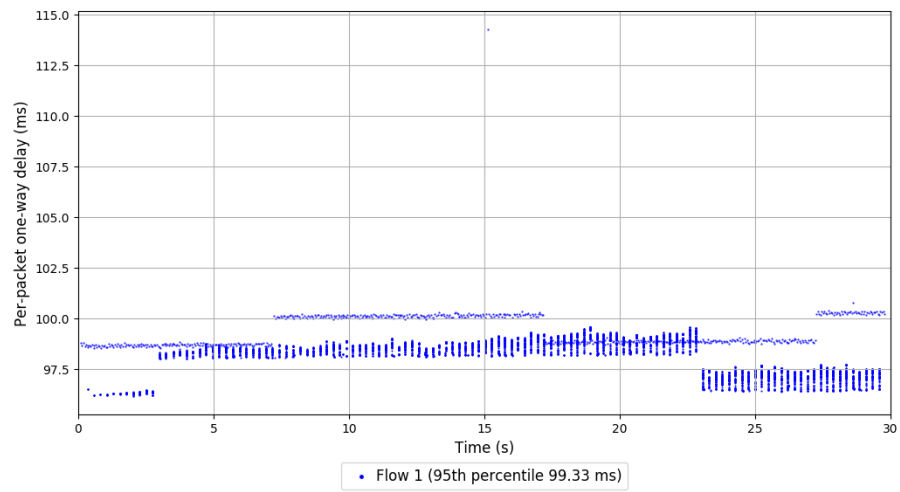
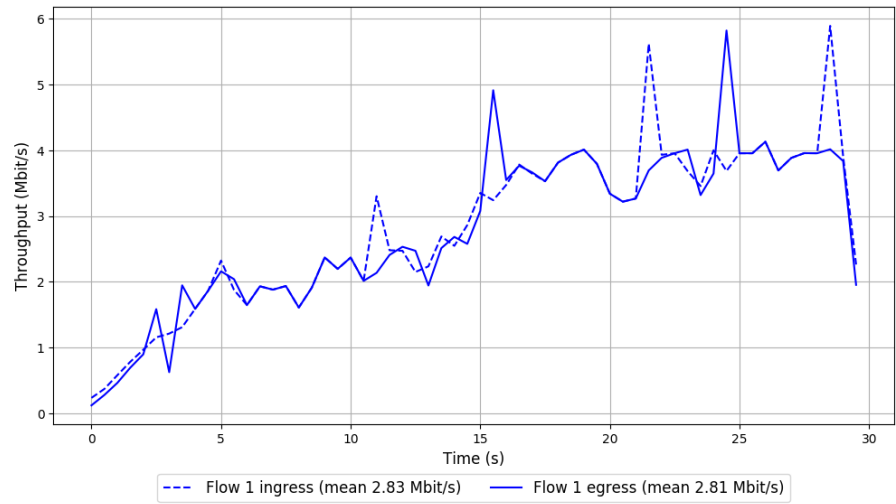
-- Flow 1:

Average throughput: 2.81 Mbit/s

95th percentile per-packet one-way delay: 99.333 ms

Loss rate: 1.33%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-12 21:27:17

End at: 2018-03-12 21:27:47

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 99.669 ms

Loss rate: 1.02%

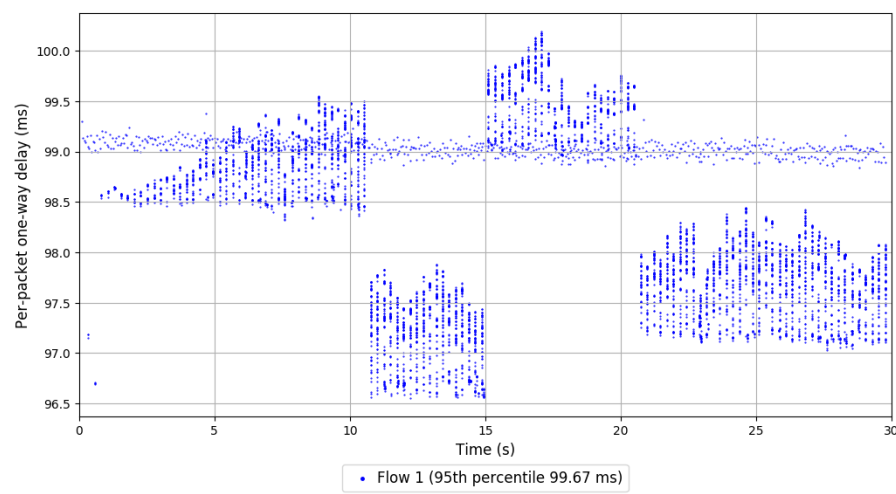
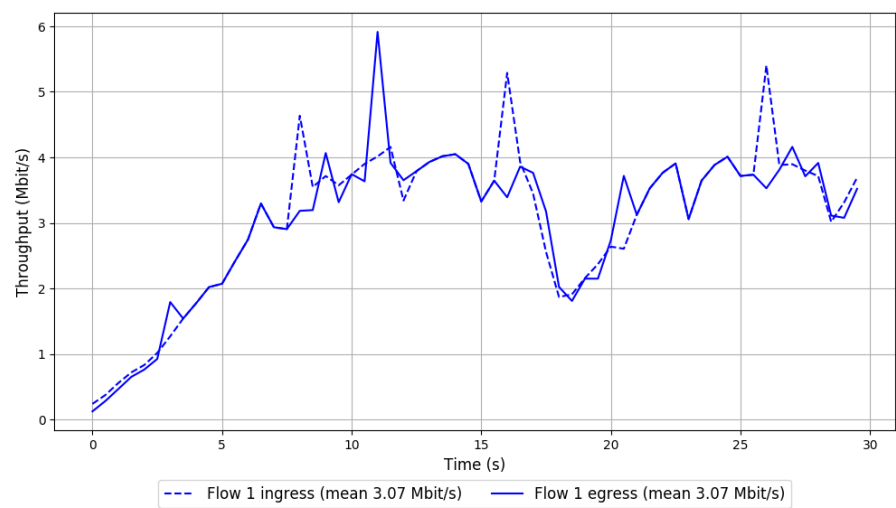
-- Flow 1:

Average throughput: 3.07 Mbit/s

95th percentile per-packet one-way delay: 99.669 ms

Loss rate: 1.02%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-12 21:43:05

End at: 2018-03-12 21:43:35

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 105.538 ms

Loss rate: 0.04%

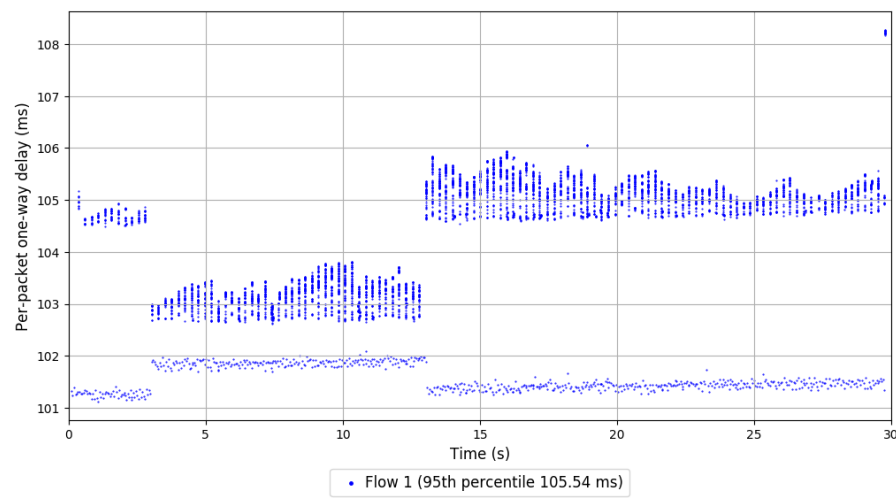
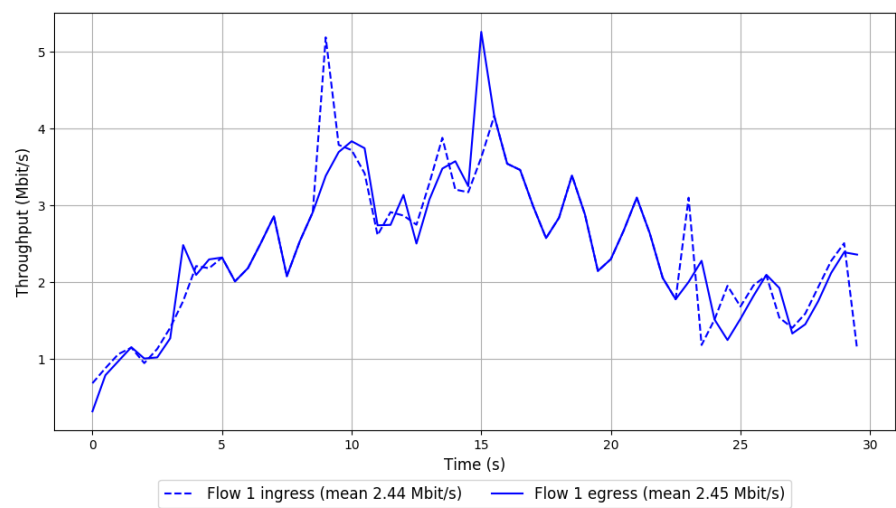
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 105.538 ms

Loss rate: 0.04%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-12 21:58:58

End at: 2018-03-12 21:59:28

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 107.472 ms

Loss rate: 0.94%

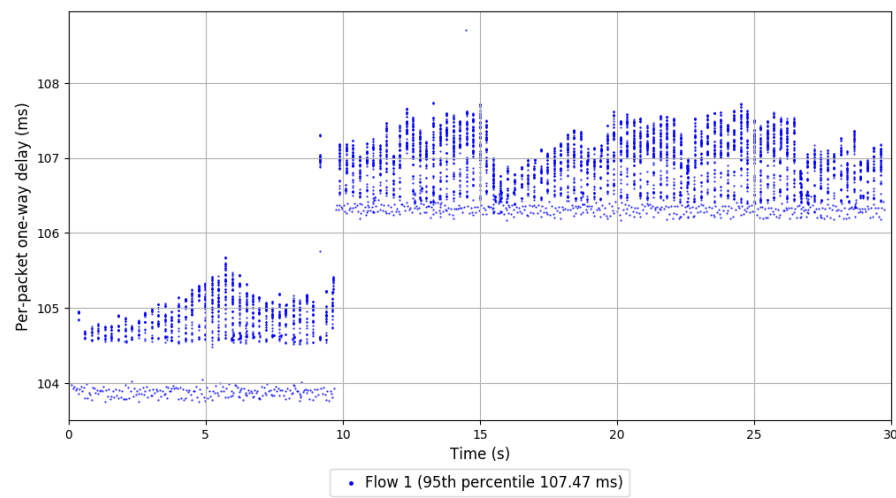
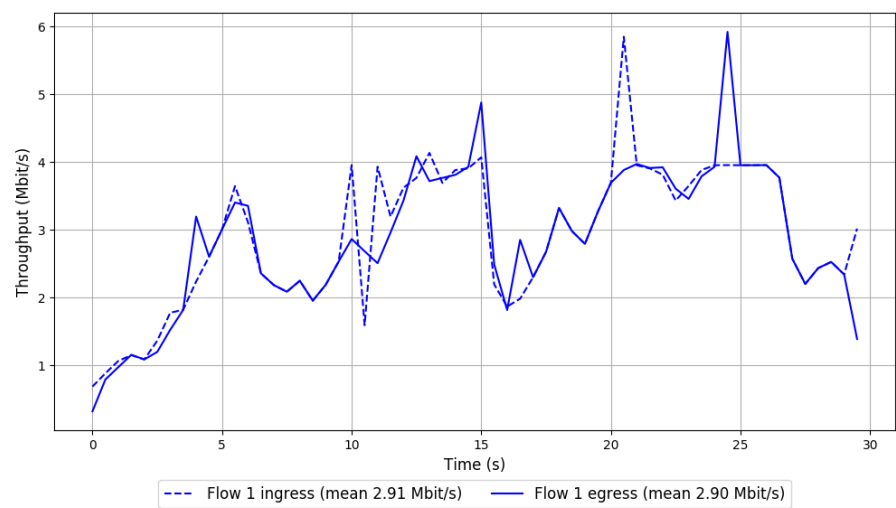
-- Flow 1:

Average throughput: 2.90 Mbit/s

95th percentile per-packet one-way delay: 107.472 ms

Loss rate: 0.94%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-12 22:14:28

End at: 2018-03-12 22:14:58

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 108.603 ms

Loss rate: 0.65%

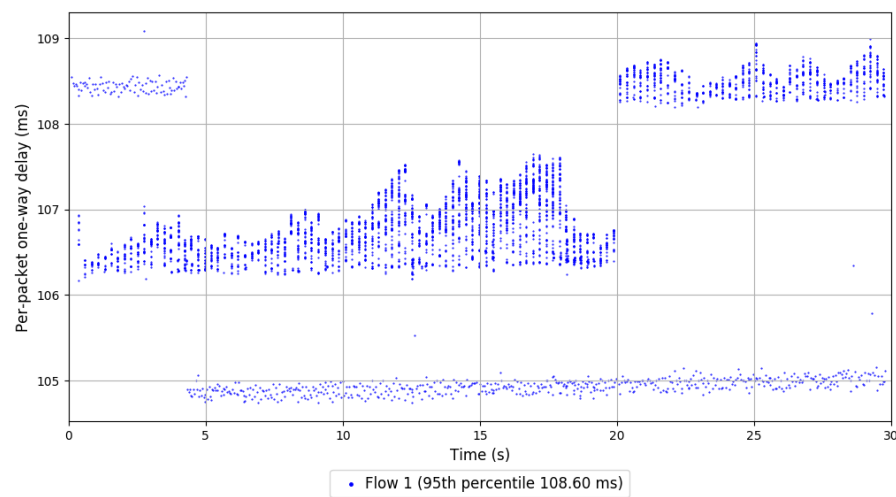
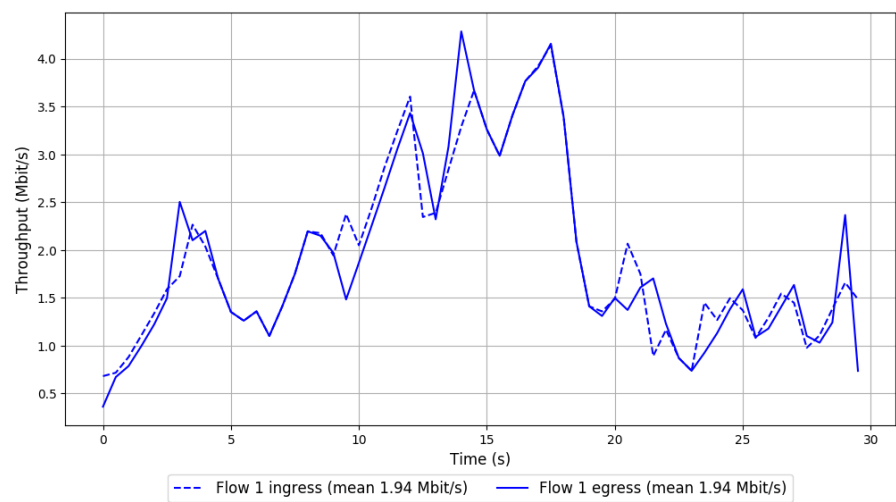
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 108.603 ms

Loss rate: 0.65%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-12 22:29:58

End at: 2018-03-12 22:30:28

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 111.282 ms

Loss rate: 0.76%

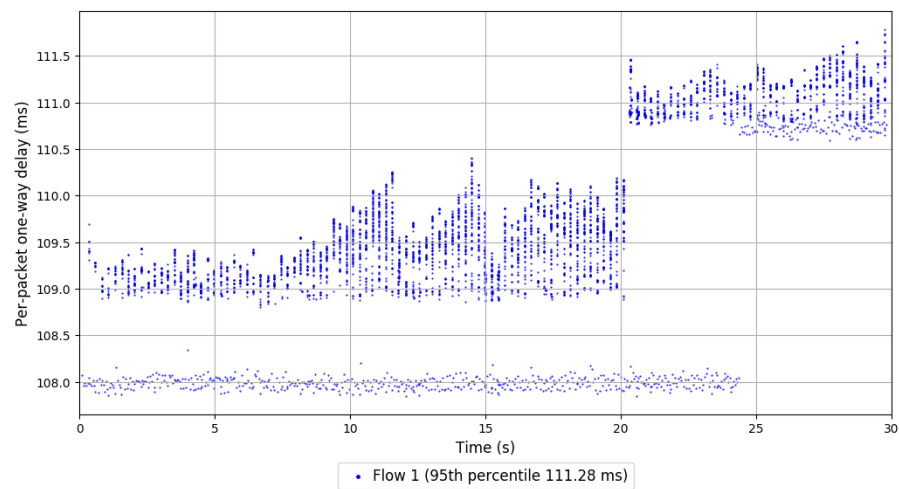
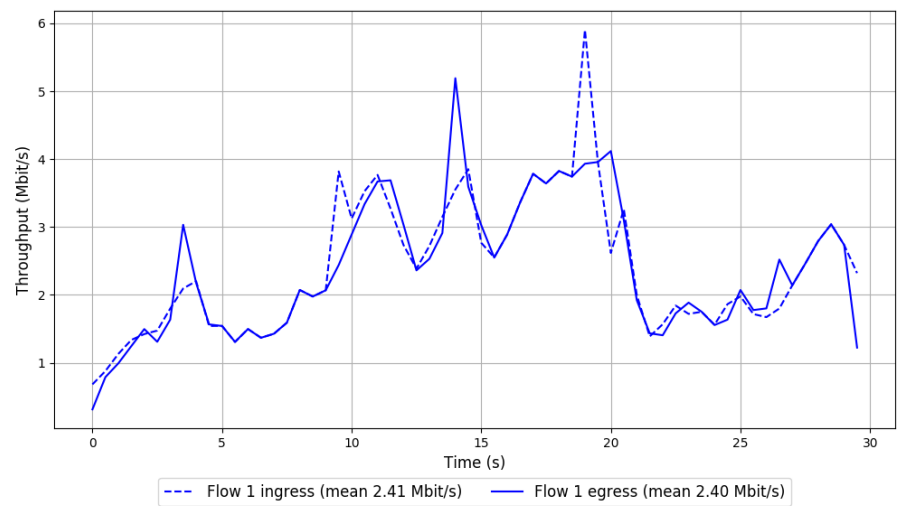
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 111.282 ms

Loss rate: 0.76%

Run 10: Report of Sprout — Data Link

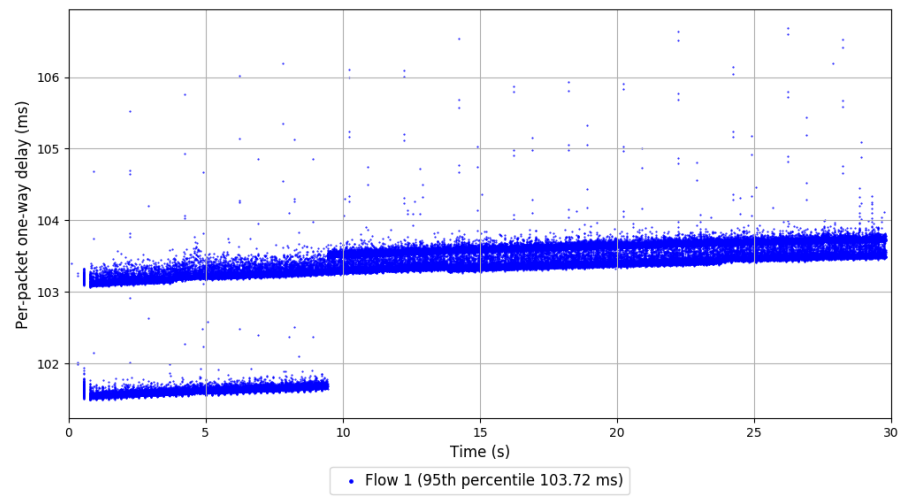
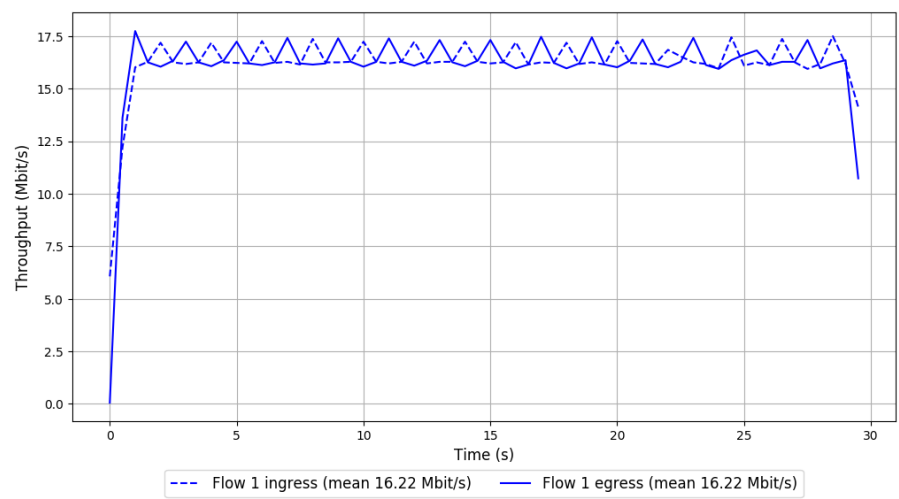


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-12 20:02:18
End at: 2018-03-12 20:02:48

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.22 Mbit/s
95th percentile per-packet one-way delay: 103.721 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 16.22 Mbit/s
95th percentile per-packet one-way delay: 103.721 ms
Loss rate: 0.76%
```

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

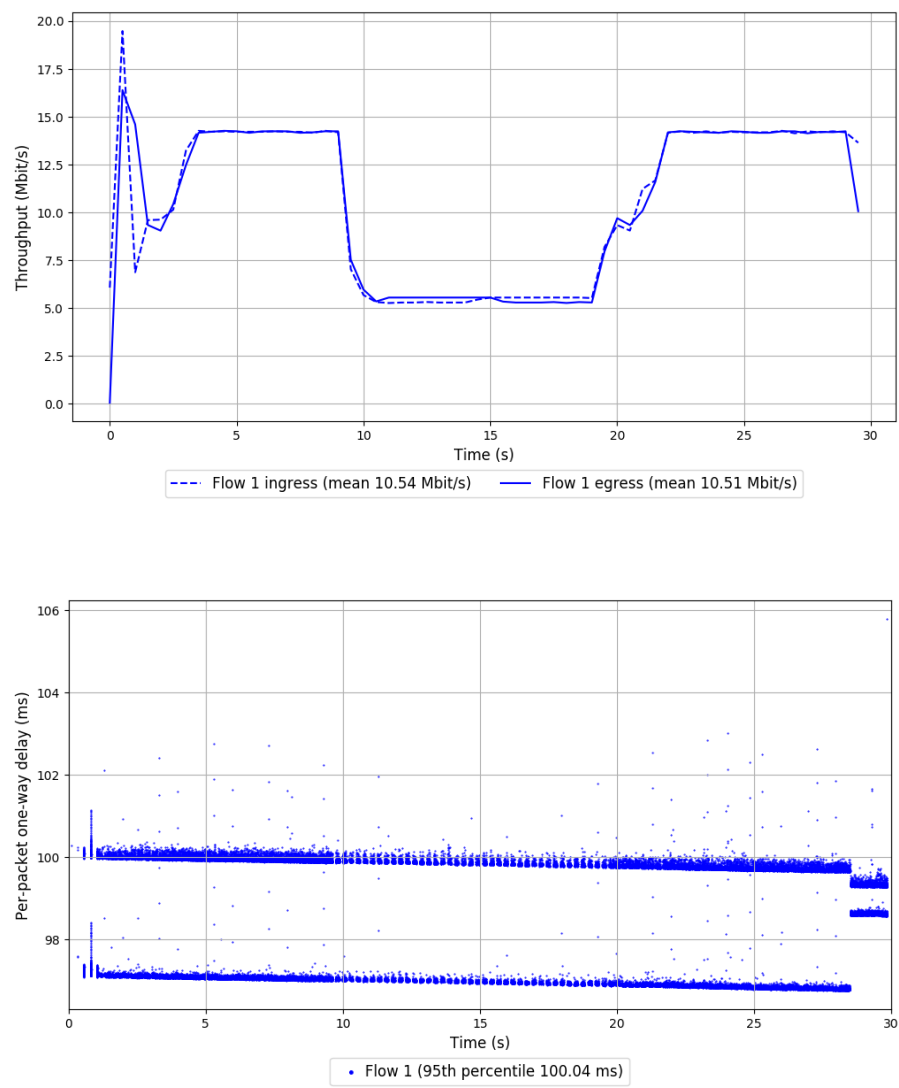


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-12 20:17:39
End at: 2018-03-12 20:18:09

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 100.041 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 10.51 Mbit/s
95th percentile per-packet one-way delay: 100.041 ms
Loss rate: 1.00%
```

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

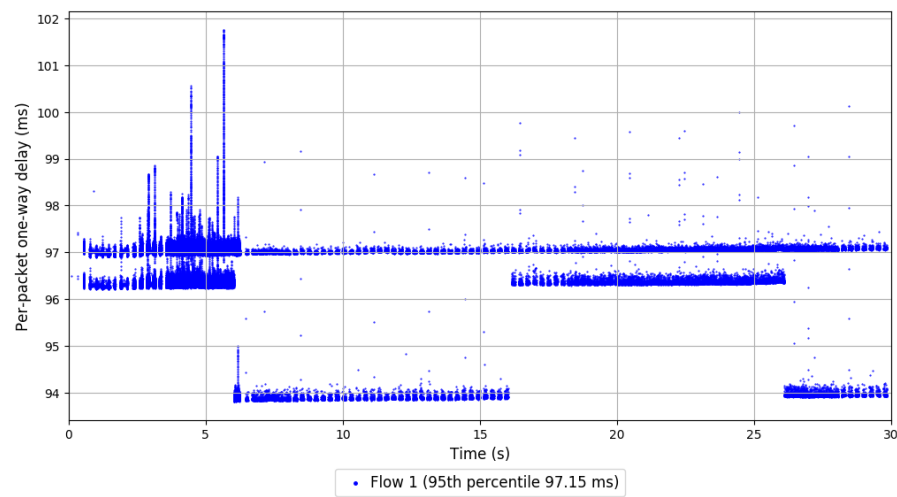
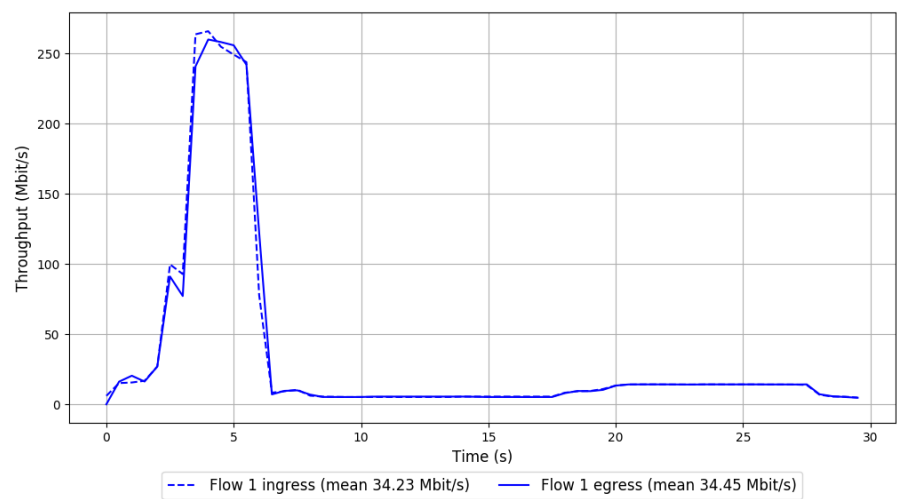


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-03-12 20:33:06
End at: 2018-03-12 20:33:36

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 97.146 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 34.45 Mbit/s
95th percentile per-packet one-way delay: 97.146 ms
Loss rate: 0.10%
```

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

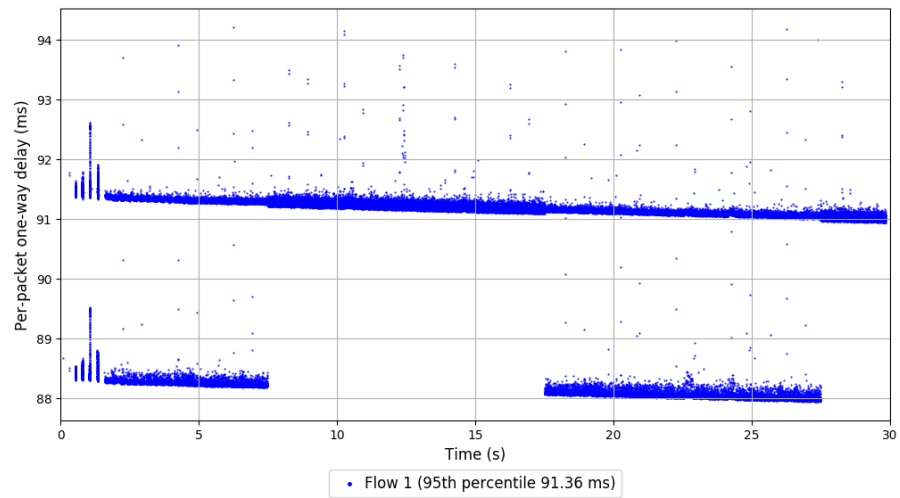
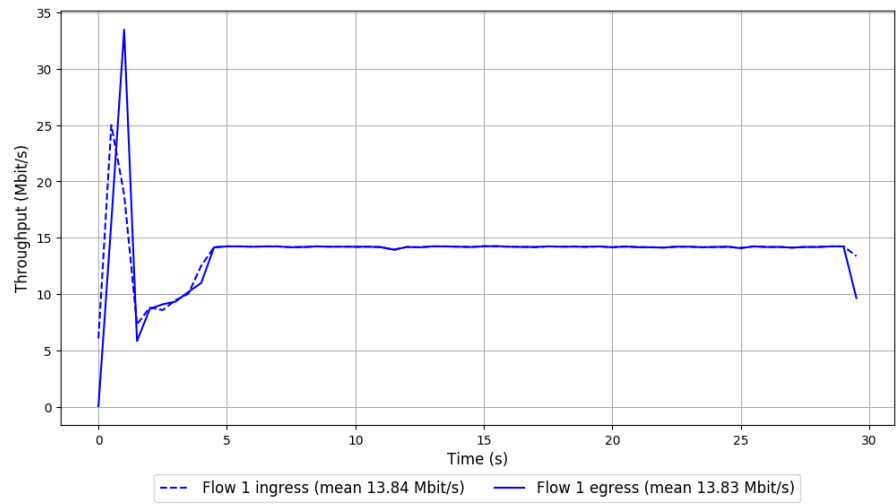


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-03-12 20:48:30
End at: 2018-03-12 20:49:00

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.83 Mbit/s
95th percentile per-packet one-way delay: 91.355 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 13.83 Mbit/s
95th percentile per-packet one-way delay: 91.355 ms
Loss rate: 0.76%
```

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

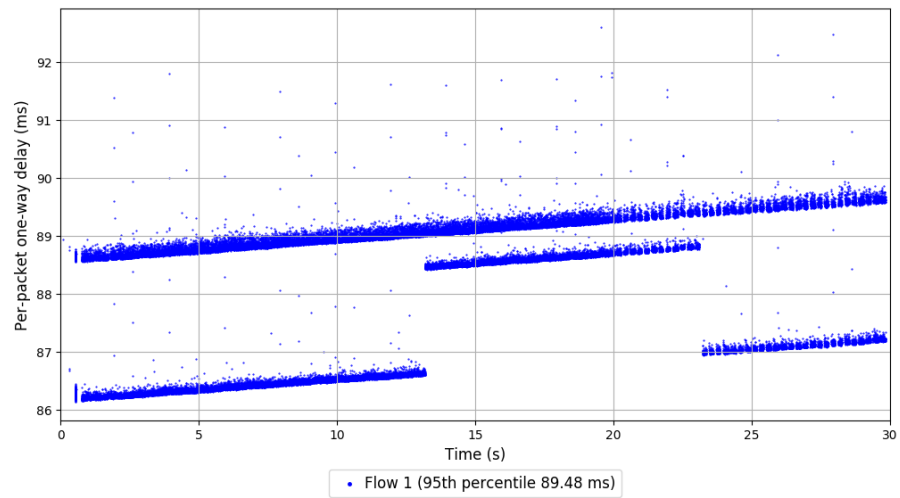
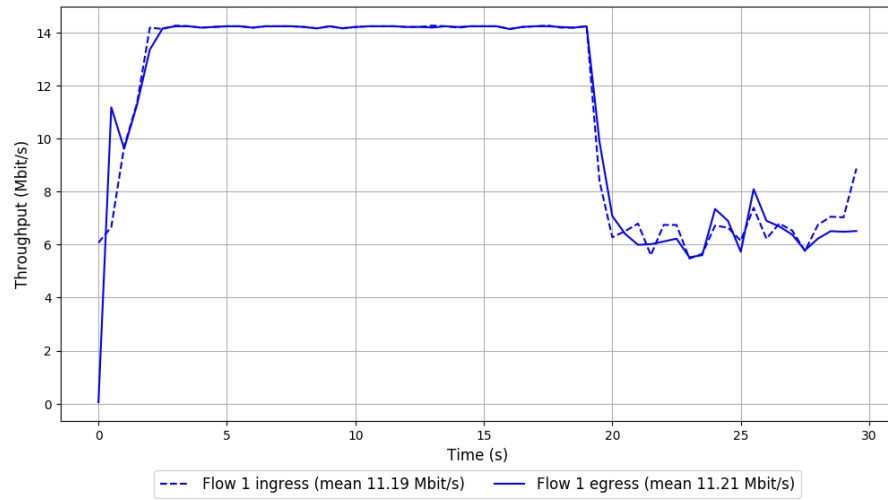


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-03-12 21:03:55
End at: 2018-03-12 21:04:25

# Below is generated by plot.py at 2018-03-13 01:32:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 89.482 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 11.21 Mbit/s
95th percentile per-packet one-way delay: 89.482 ms
Loss rate: 0.63%
```

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-12 21:19:20

End at: 2018-03-12 21:19:50

Below is generated by plot.py at 2018-03-13 01:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.13 Mbit/s

95th percentile per-packet one-way delay: 99.918 ms

Loss rate: 0.07%

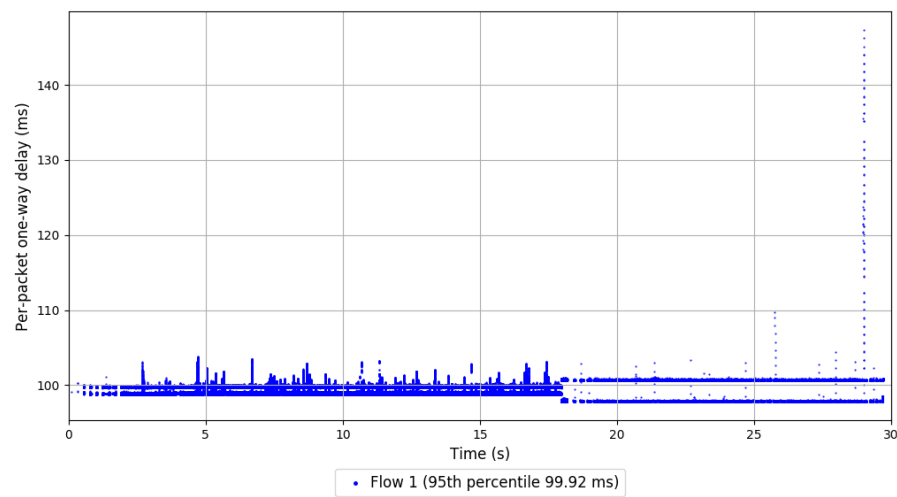
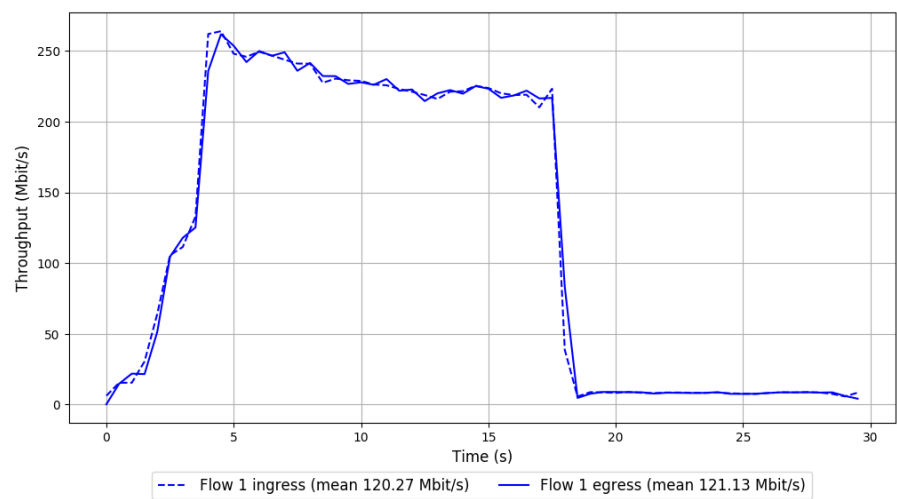
-- Flow 1:

Average throughput: 121.13 Mbit/s

95th percentile per-packet one-way delay: 99.918 ms

Loss rate: 0.07%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-12 21:34:50

End at: 2018-03-12 21:35:20

Below is generated by plot.py at 2018-03-13 01:32:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.29 Mbit/s

95th percentile per-packet one-way delay: 96.611 ms

Loss rate: 0.48%

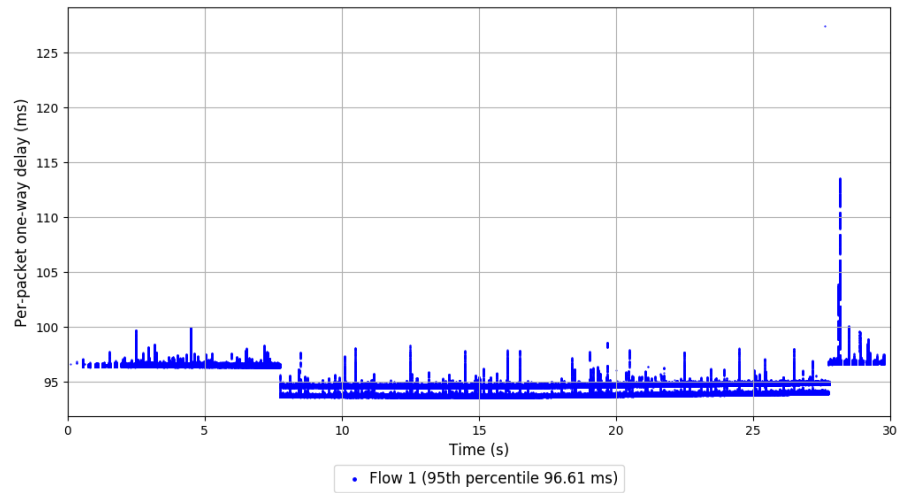
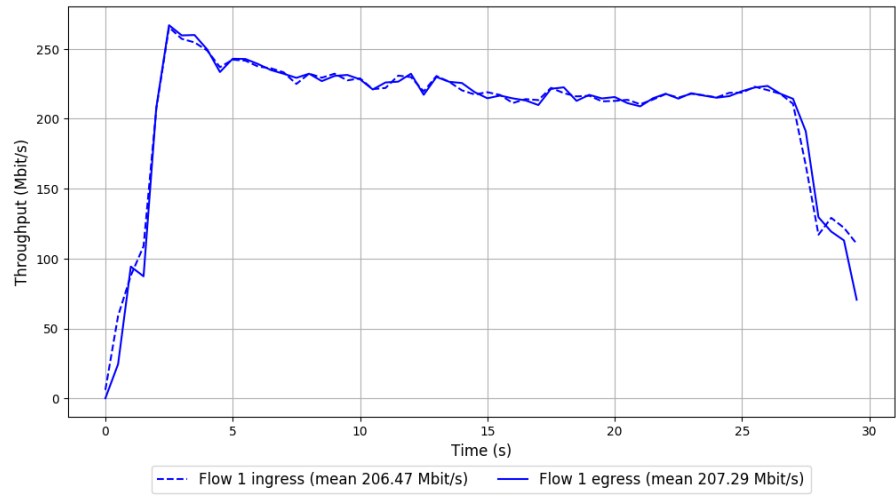
-- Flow 1:

Average throughput: 207.29 Mbit/s

95th percentile per-packet one-way delay: 96.611 ms

Loss rate: 0.48%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-12 21:50:44

End at: 2018-03-12 21:51:14

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.75 Mbit/s

95th percentile per-packet one-way delay: 106.588 ms

Loss rate: 0.84%

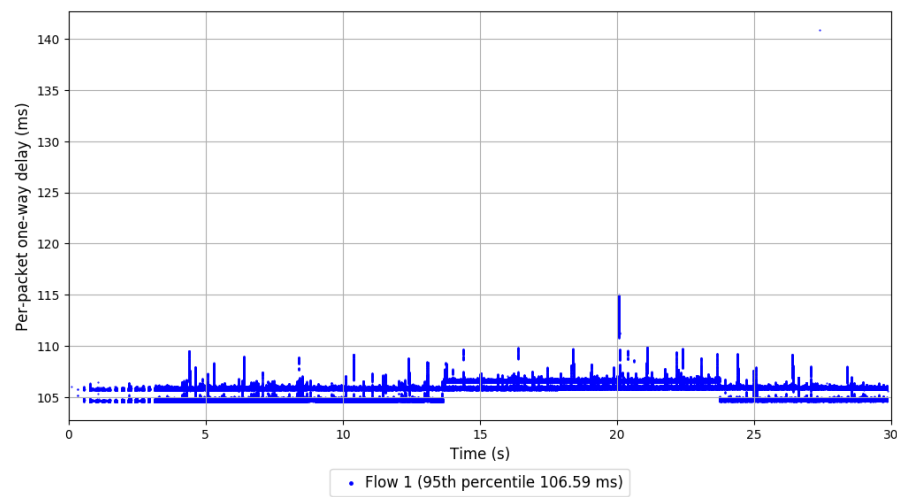
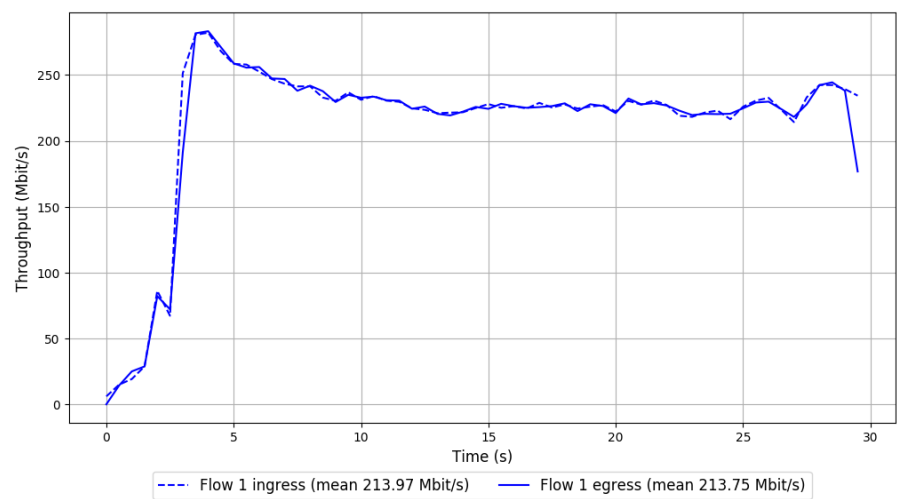
-- Flow 1:

Average throughput: 213.75 Mbit/s

95th percentile per-packet one-way delay: 106.588 ms

Loss rate: 0.84%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-12 22:06:26

End at: 2018-03-12 22:06:56

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.37 Mbit/s

95th percentile per-packet one-way delay: 105.931 ms

Loss rate: 1.65%

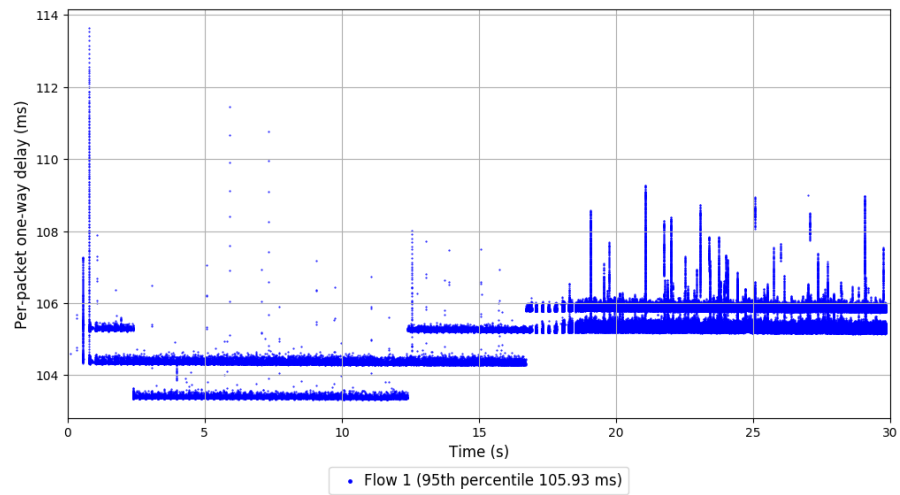
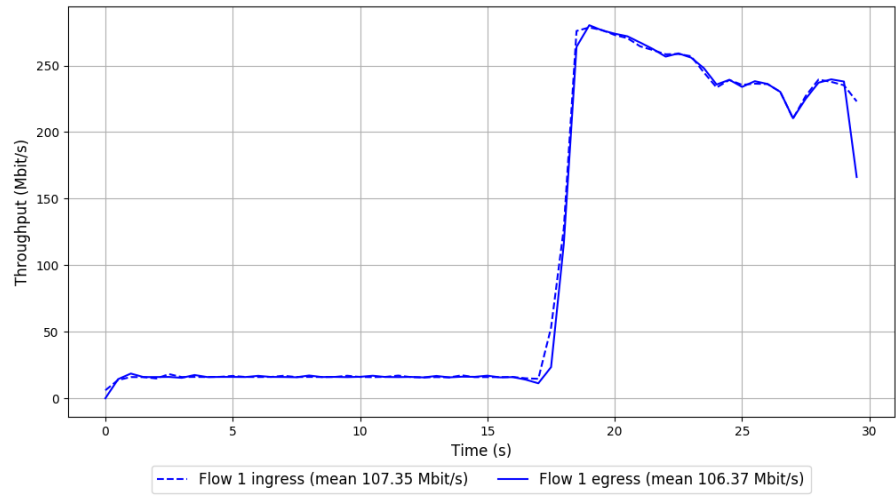
-- Flow 1:

Average throughput: 106.37 Mbit/s

95th percentile per-packet one-way delay: 105.931 ms

Loss rate: 1.65%

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

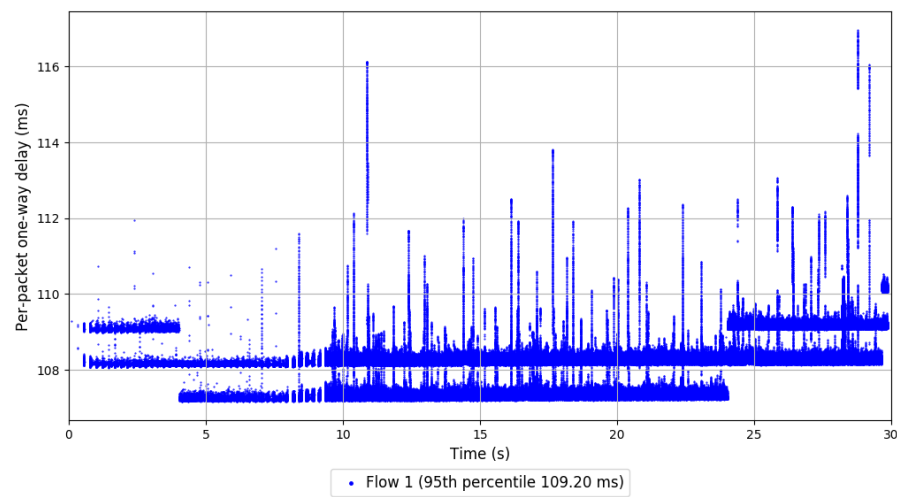
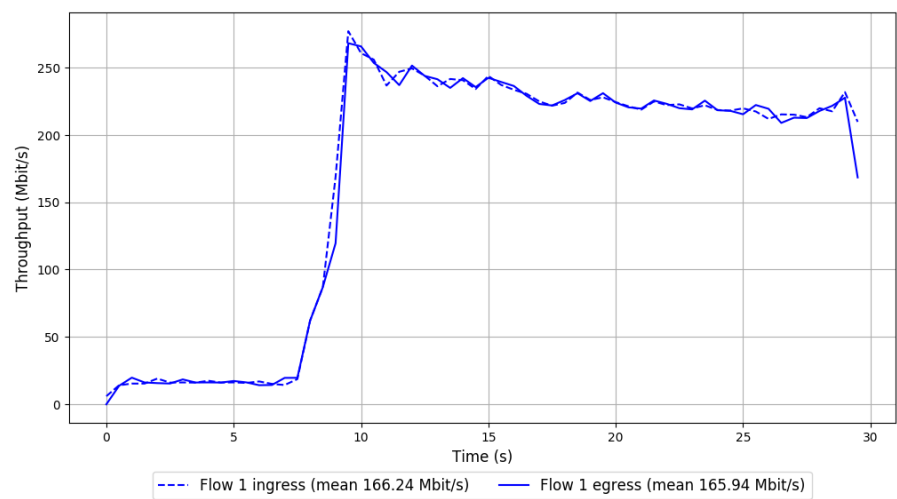


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-12 22:21:58
End at: 2018-03-12 22:22:28

# Below is generated by plot.py at 2018-03-13 01:33:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.94 Mbit/s
95th percentile per-packet one-way delay: 109.203 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 165.94 Mbit/s
95th percentile per-packet one-way delay: 109.203 ms
Loss rate: 0.92%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-12 19:58:51

End at: 2018-03-12 19:59:21

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 107.376 ms

Loss rate: 0.82%

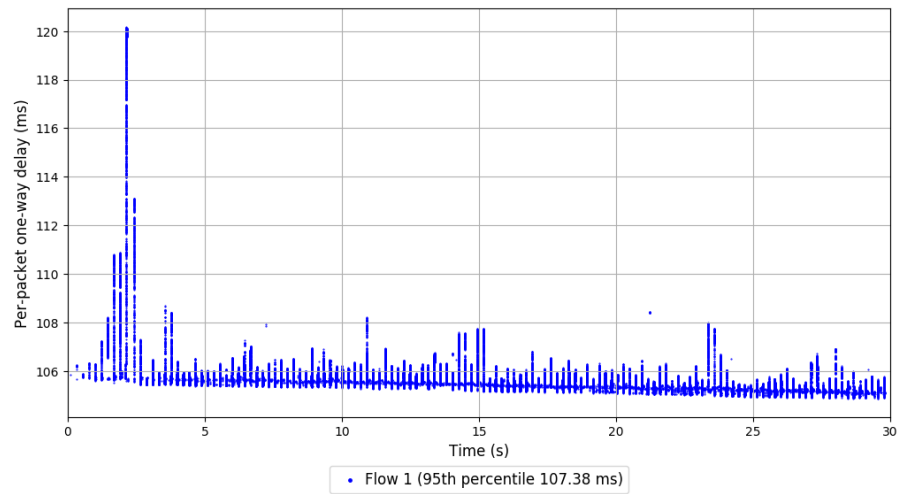
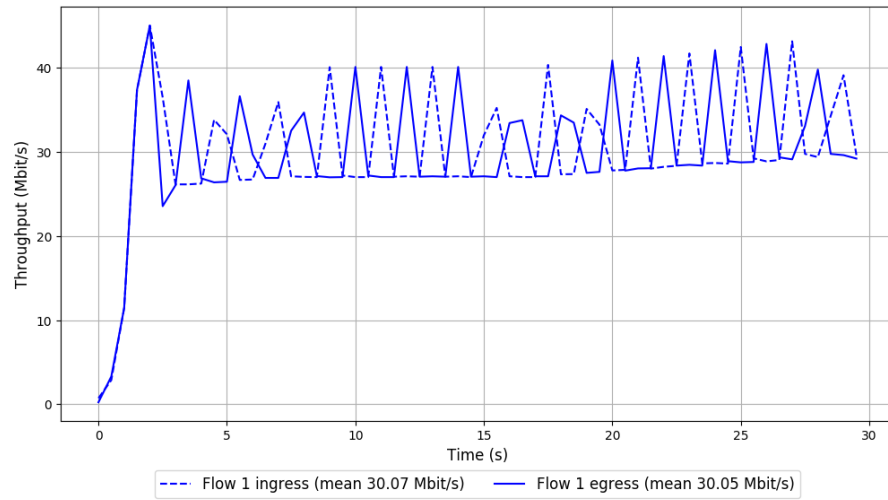
-- Flow 1:

Average throughput: 30.05 Mbit/s

95th percentile per-packet one-way delay: 107.376 ms

Loss rate: 0.82%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-12 20:14:06

End at: 2018-03-12 20:14:36

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.94 Mbit/s

95th percentile per-packet one-way delay: 104.006 ms

Loss rate: 0.67%

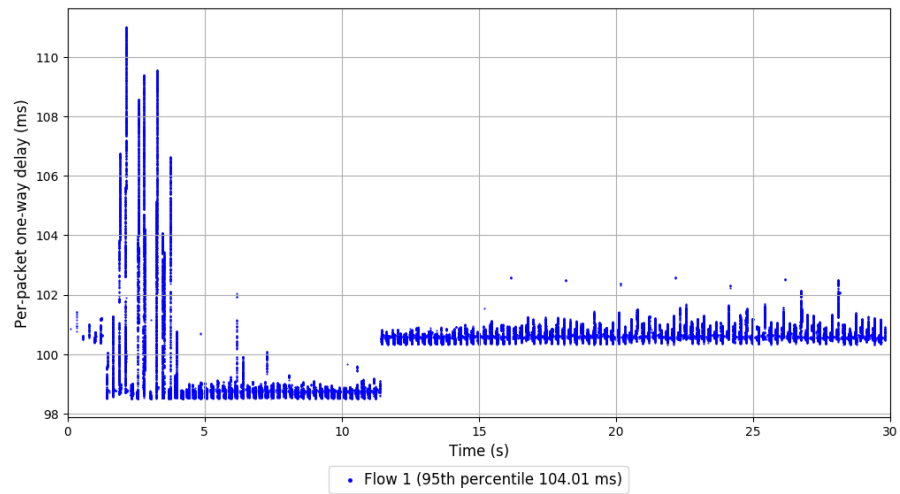
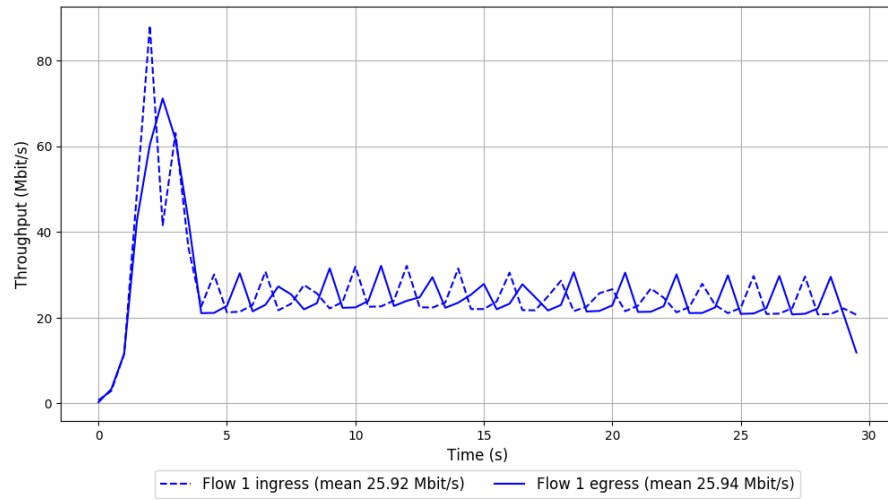
-- Flow 1:

Average throughput: 25.94 Mbit/s

95th percentile per-packet one-way delay: 104.006 ms

Loss rate: 0.67%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-12 20:29:27

End at: 2018-03-12 20:29:57

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 103.438 ms

Loss rate: 0.53%

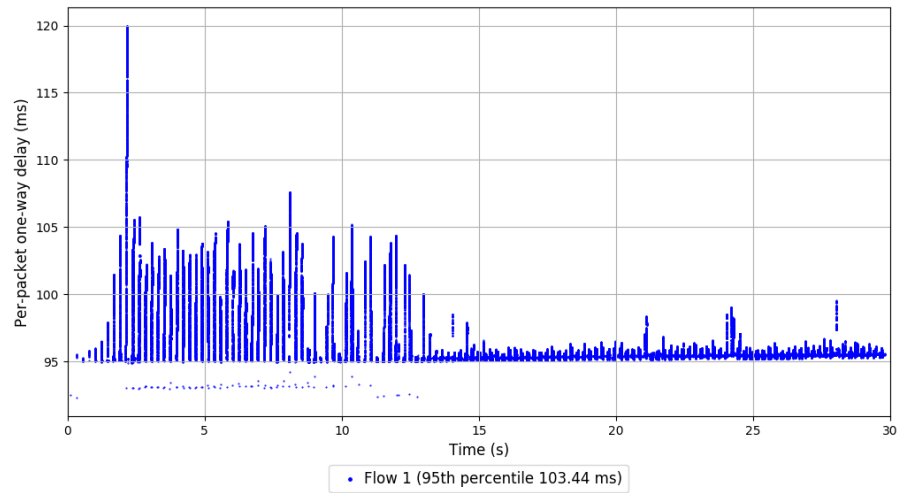
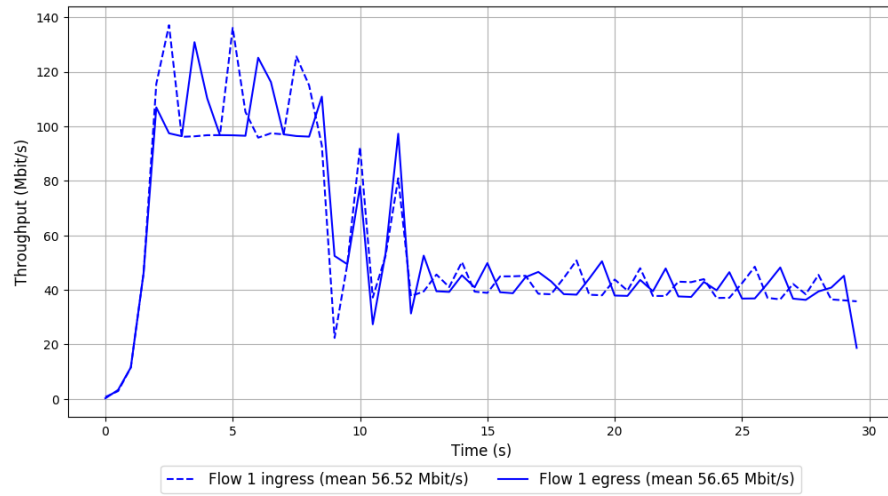
-- Flow 1:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 103.438 ms

Loss rate: 0.53%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-12 20:44:55

End at: 2018-03-12 20:45:25

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 95.800 ms

Loss rate: 0.83%

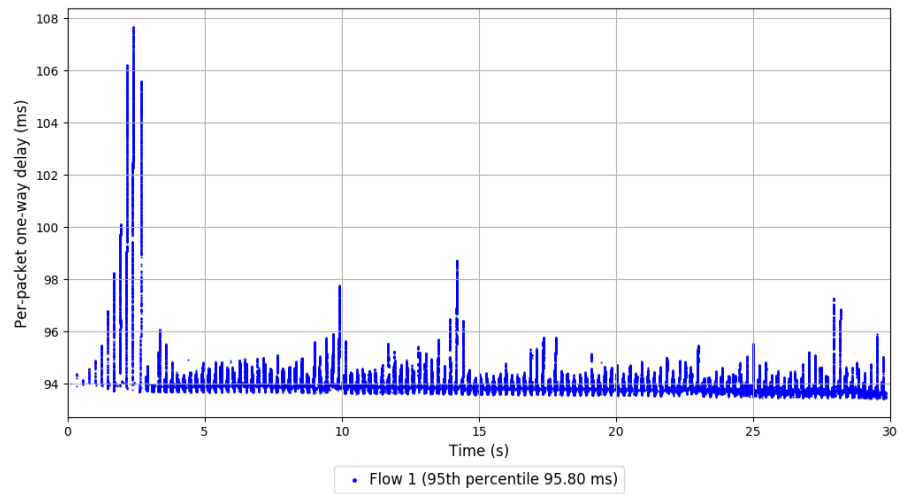
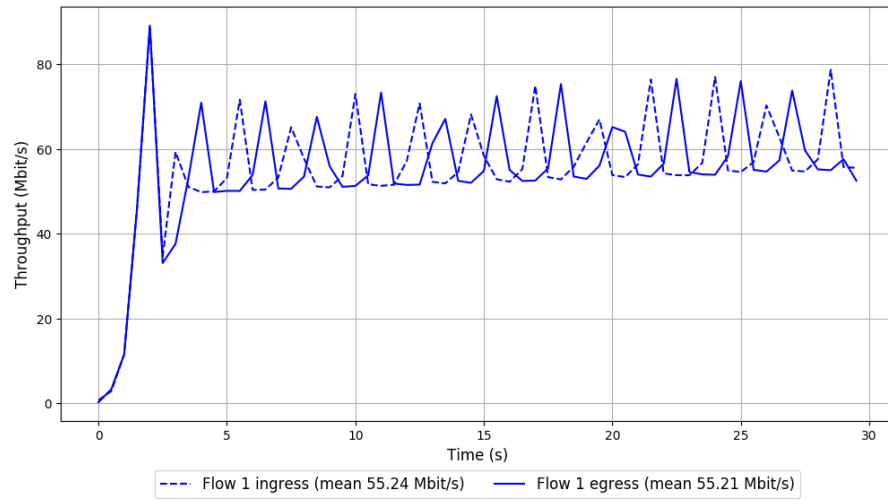
-- Flow 1:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 95.800 ms

Loss rate: 0.83%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-12 21:00:21

End at: 2018-03-12 21:00:51

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 91.135 ms

Loss rate: 0.50%

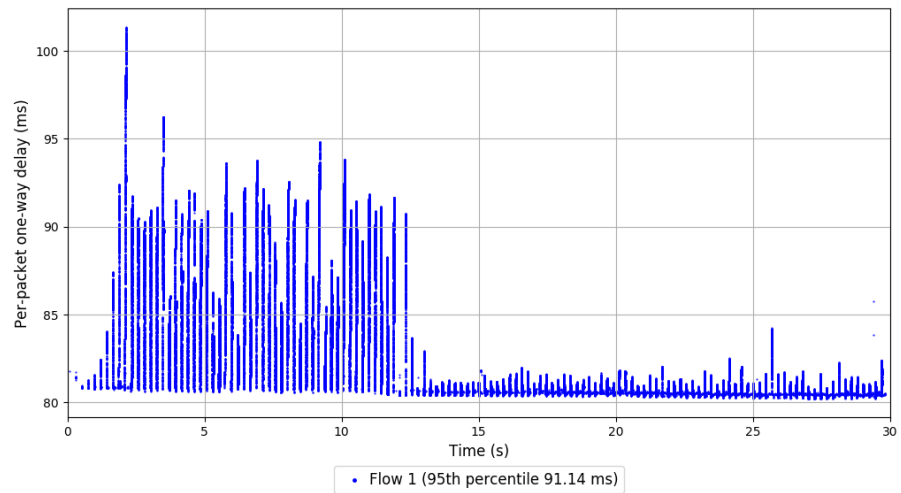
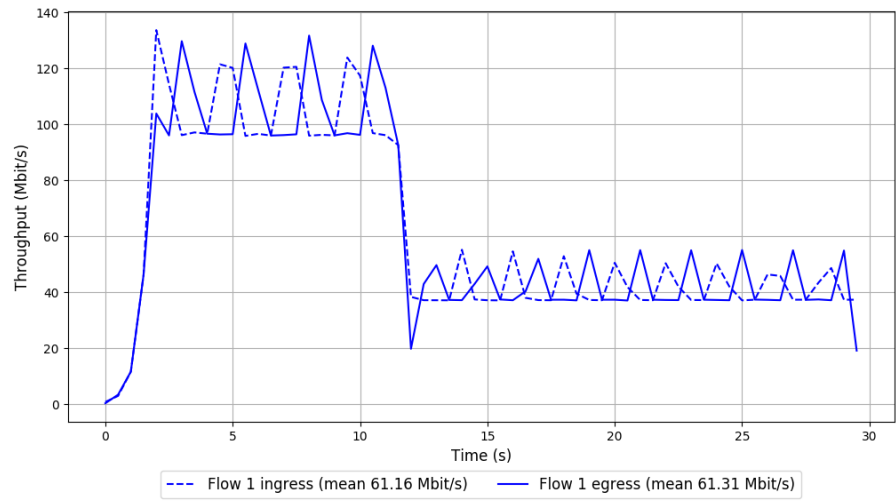
-- Flow 1:

Average throughput: 61.31 Mbit/s

95th percentile per-packet one-way delay: 91.135 ms

Loss rate: 0.50%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-12 21:15:42

End at: 2018-03-12 21:16:12

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 101.167 ms

Loss rate: 0.74%

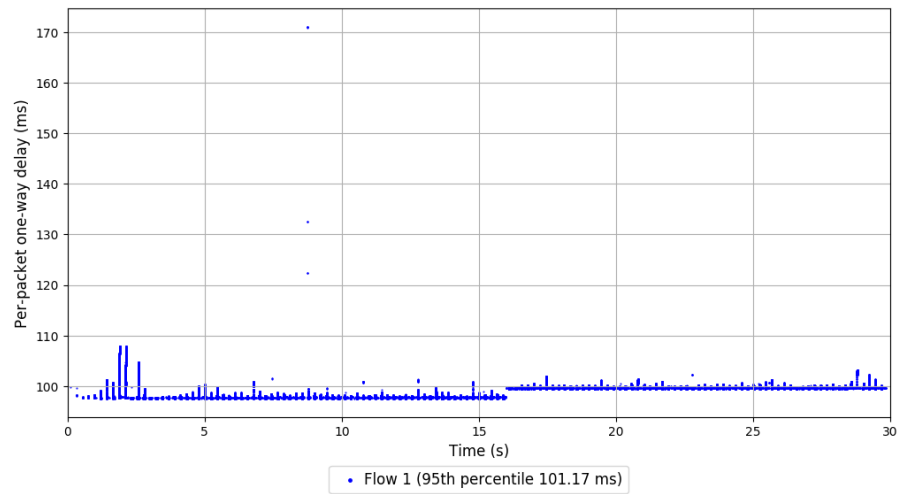
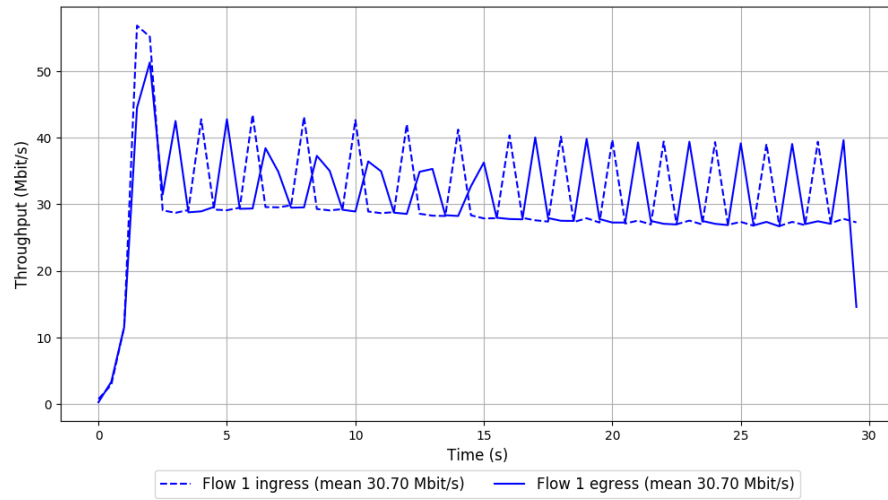
-- Flow 1:

Average throughput: 30.70 Mbit/s

95th percentile per-packet one-way delay: 101.167 ms

Loss rate: 0.74%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-12 21:31:15

End at: 2018-03-12 21:31:45

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.31 Mbit/s

95th percentile per-packet one-way delay: 98.856 ms

Loss rate: 0.76%

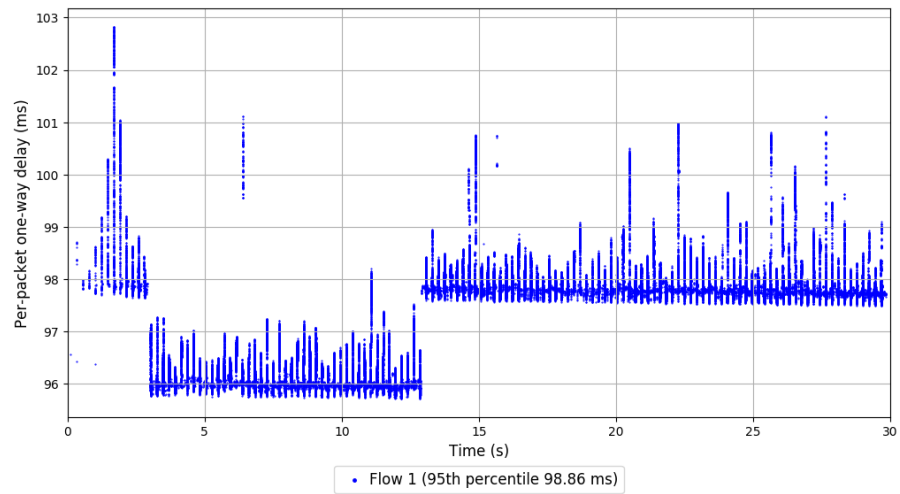
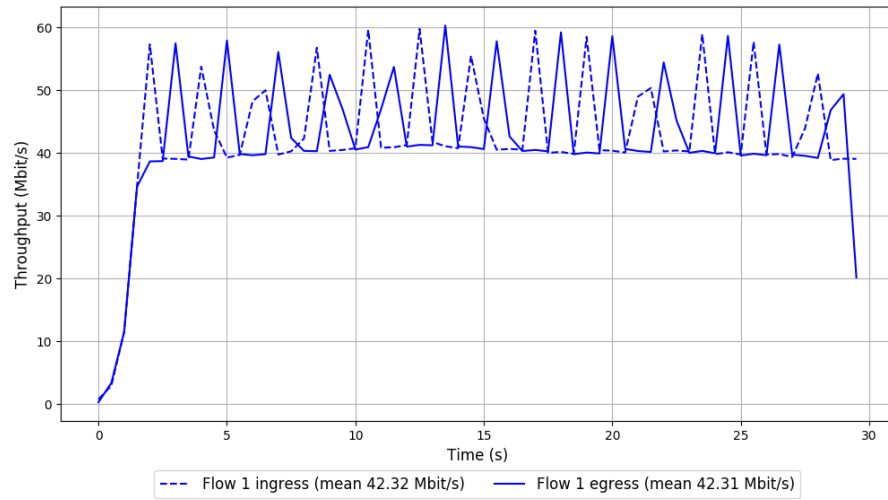
-- Flow 1:

Average throughput: 42.31 Mbit/s

95th percentile per-packet one-way delay: 98.856 ms

Loss rate: 0.76%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-12 21:47:03

End at: 2018-03-12 21:47:33

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.20 Mbit/s

95th percentile per-packet one-way delay: 112.619 ms

Loss rate: 0.66%

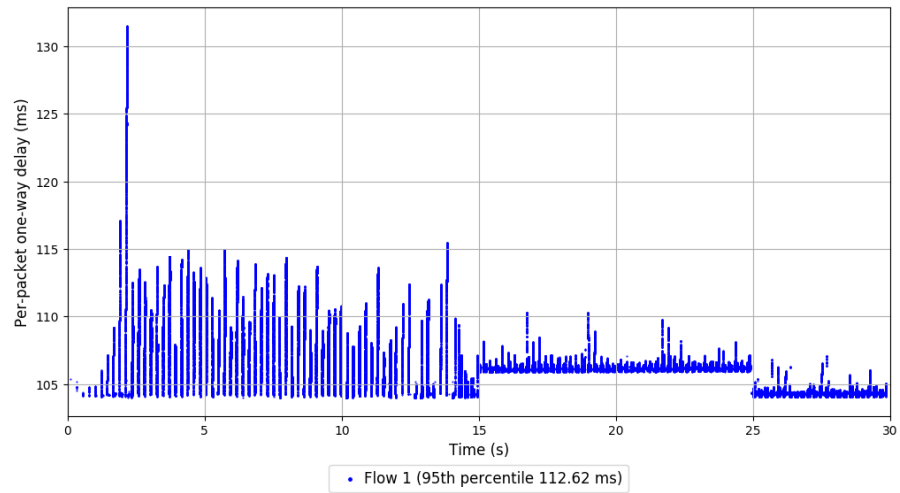
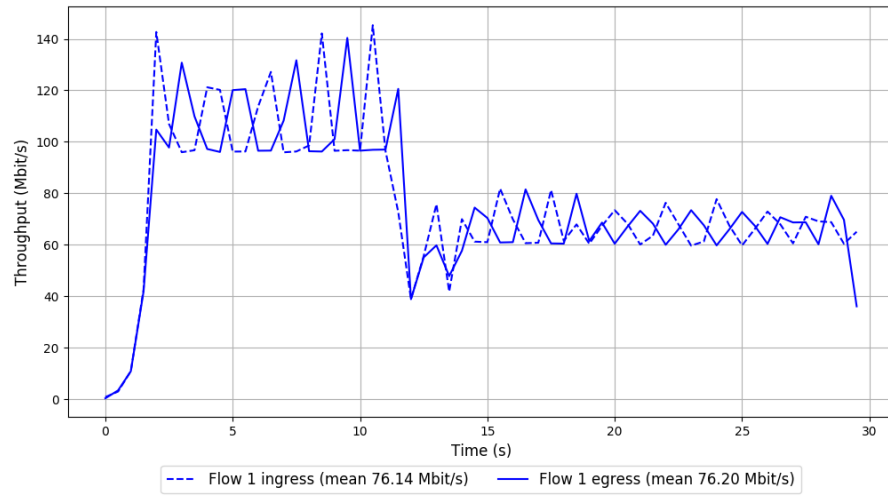
-- Flow 1:

Average throughput: 76.20 Mbit/s

95th percentile per-packet one-way delay: 112.619 ms

Loss rate: 0.66%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-12 22:02:56

End at: 2018-03-12 22:03:26

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.67 Mbit/s

95th percentile per-packet one-way delay: 107.499 ms

Loss rate: 0.82%

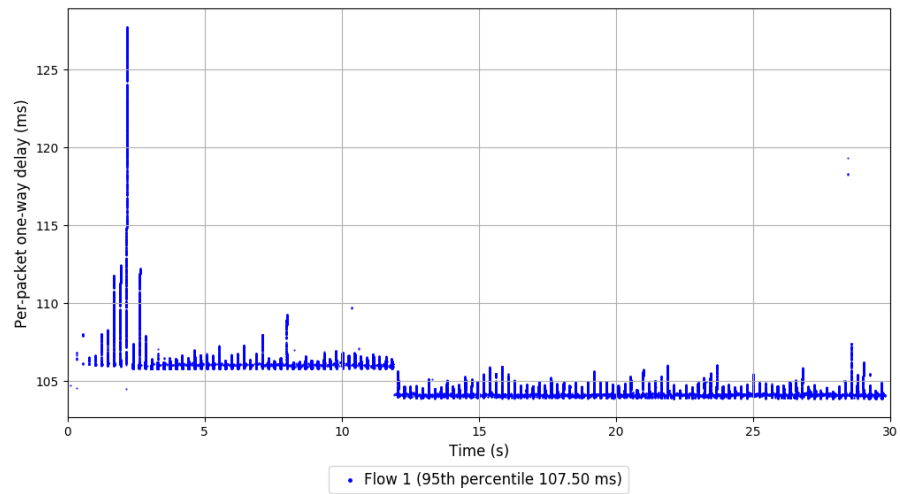
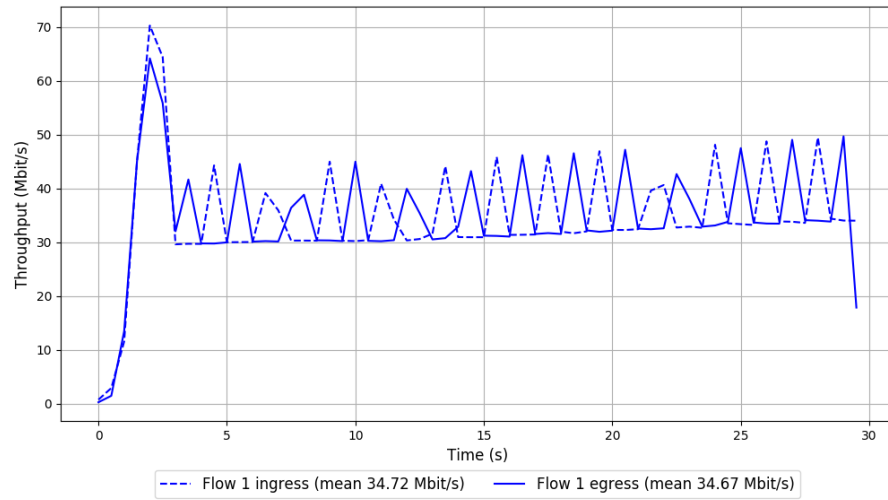
-- Flow 1:

Average throughput: 34.67 Mbit/s

95th percentile per-packet one-way delay: 107.499 ms

Loss rate: 0.82%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-12 22:18:24

End at: 2018-03-12 22:18:54

Below is generated by plot.py at 2018-03-13 01:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 111.438 ms

Loss rate: 0.75%

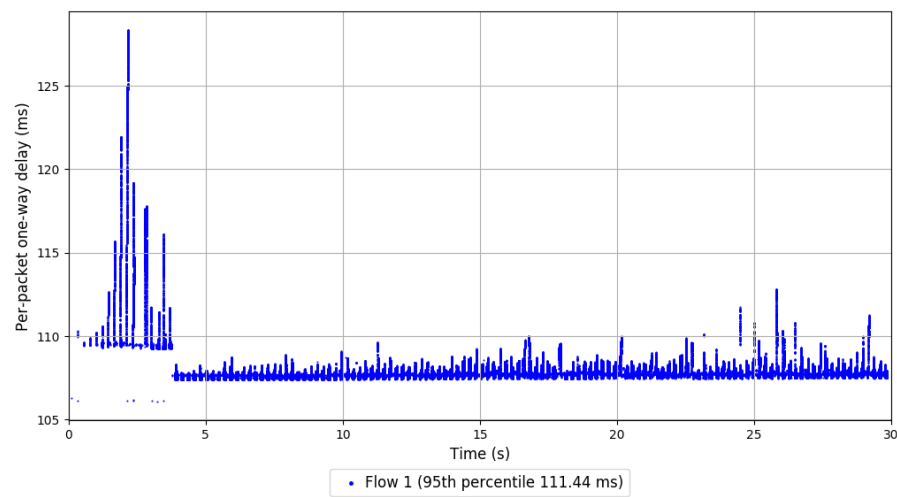
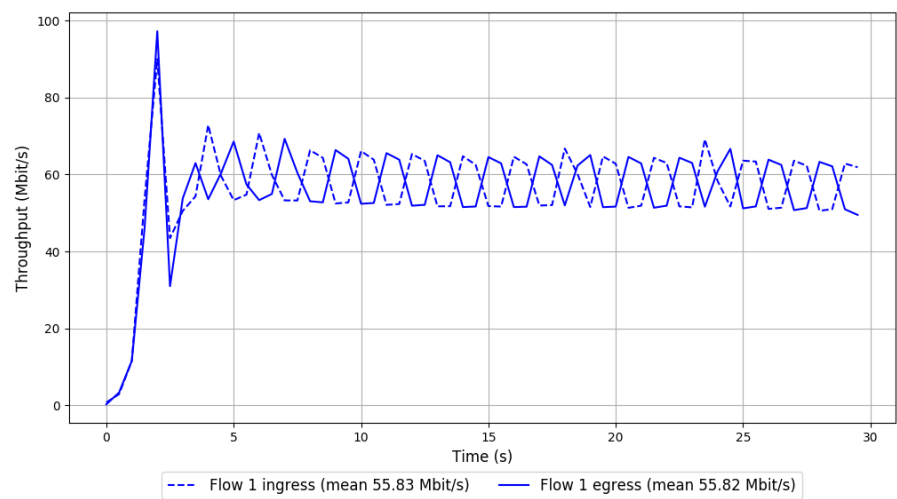
-- Flow 1:

Average throughput: 55.82 Mbit/s

95th percentile per-packet one-way delay: 111.438 ms

Loss rate: 0.75%

Run 10: Report of TCP Vegas — Data Link

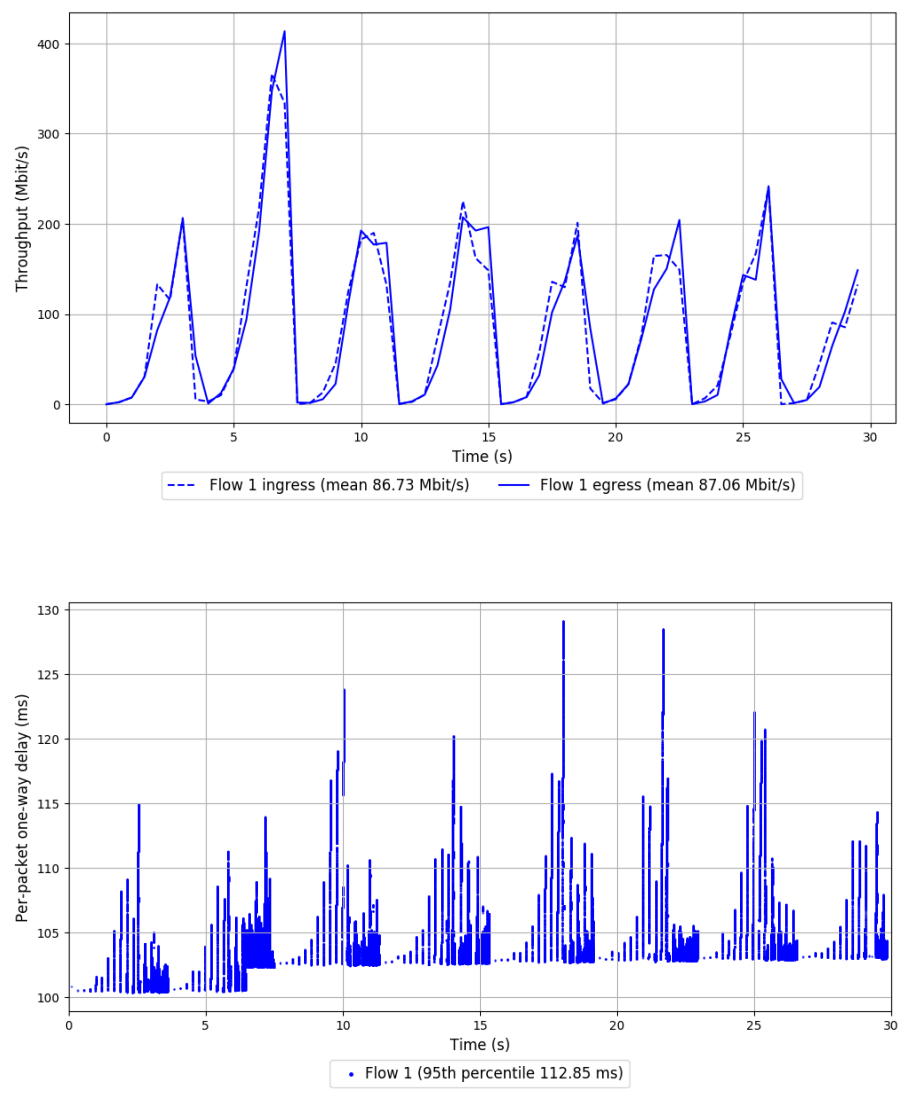


```
Run 1: Statistics of Verus

Start at: 2018-03-12 20:01:32
End at: 2018-03-12 20:02:02

# Below is generated by plot.py at 2018-03-13 01:33:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 112.851 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 112.851 ms
Loss rate: 0.35%
```

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-12 20:16:50

End at: 2018-03-12 20:17:20

Below is generated by plot.py at 2018-03-13 01:33:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.71 Mbit/s

95th percentile per-packet one-way delay: 108.312 ms

Loss rate: 0.80%

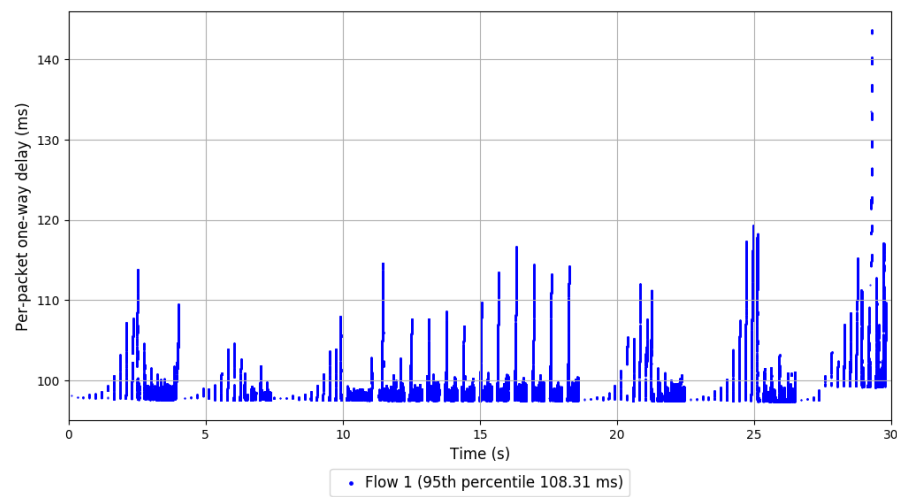
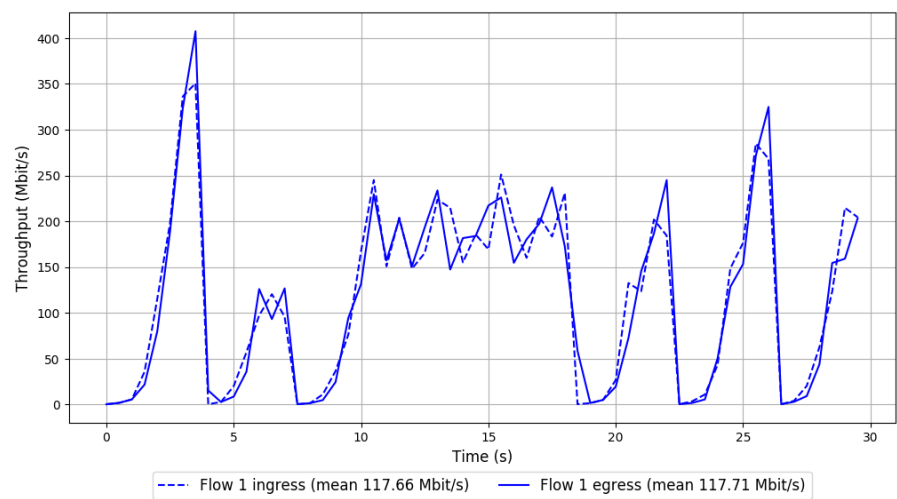
-- Flow 1:

Average throughput: 117.71 Mbit/s

95th percentile per-packet one-way delay: 108.312 ms

Loss rate: 0.80%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-12 20:32:10

End at: 2018-03-12 20:32:40

Below is generated by plot.py at 2018-03-13 01:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.82 Mbit/s

95th percentile per-packet one-way delay: 133.110 ms

Loss rate: 0.78%

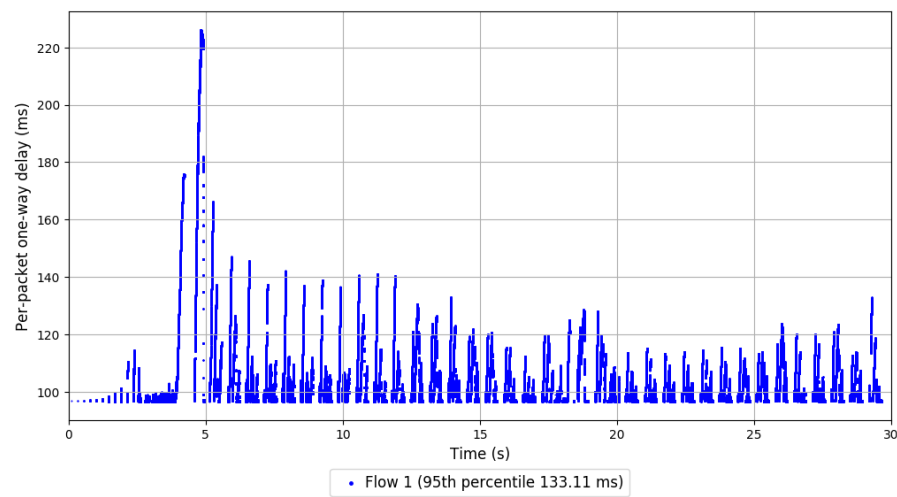
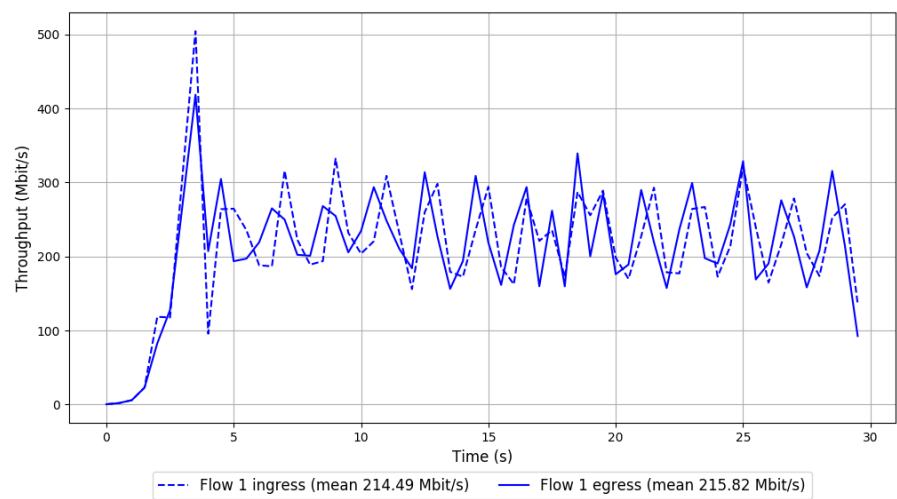
-- Flow 1:

Average throughput: 215.82 Mbit/s

95th percentile per-packet one-way delay: 133.110 ms

Loss rate: 0.78%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-12 20:47:39

End at: 2018-03-12 20:48:09

Below is generated by plot.py at 2018-03-13 01:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.84 Mbit/s

95th percentile per-packet one-way delay: 117.297 ms

Loss rate: 1.75%

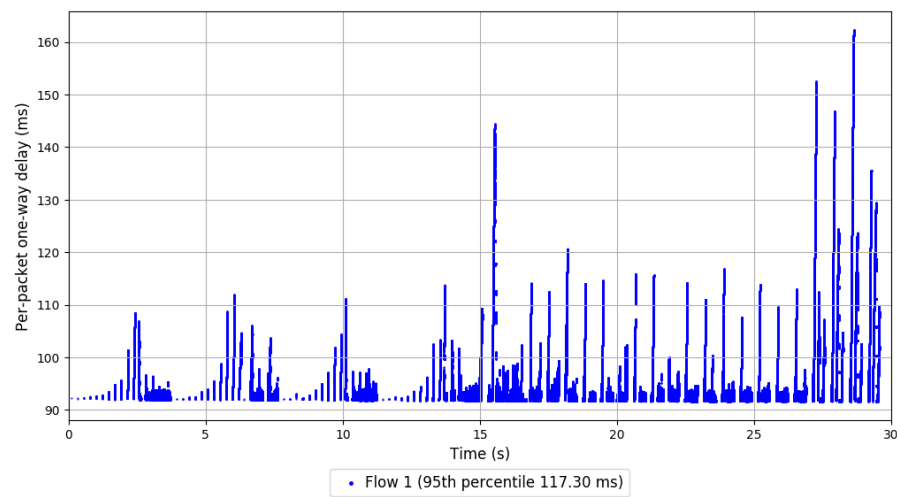
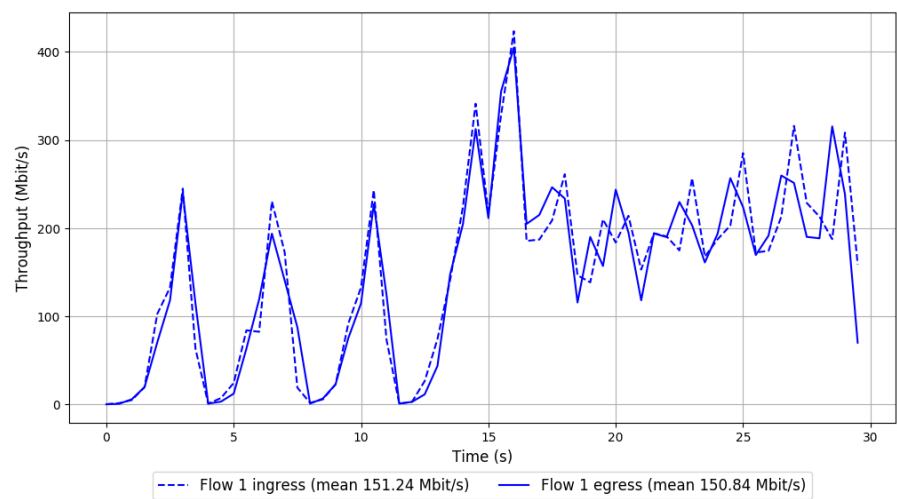
-- Flow 1:

Average throughput: 150.84 Mbit/s

95th percentile per-packet one-way delay: 117.297 ms

Loss rate: 1.75%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-12 21:03:07

End at: 2018-03-12 21:03:37

Below is generated by plot.py at 2018-03-13 01:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.95 Mbit/s

95th percentile per-packet one-way delay: 95.021 ms

Loss rate: 0.85%

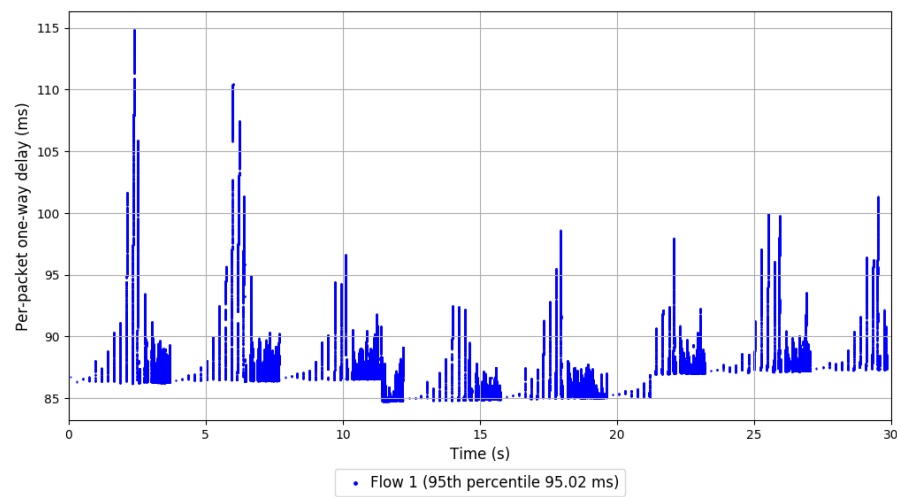
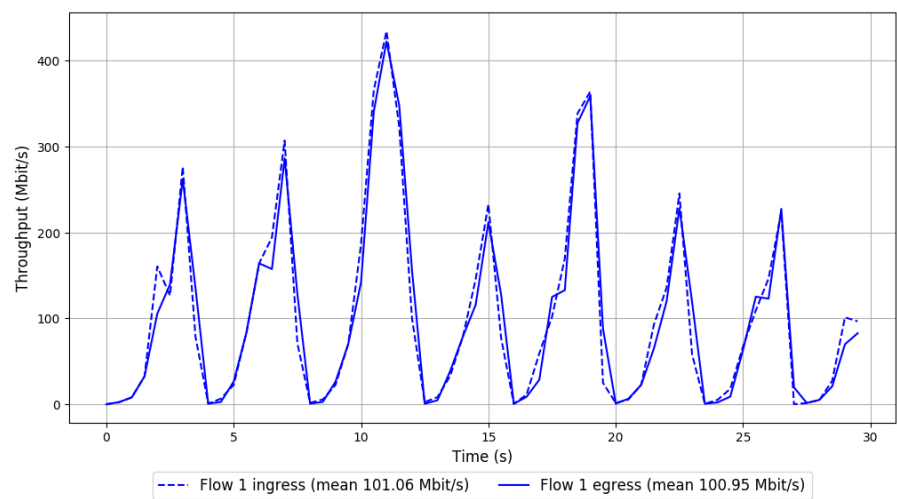
-- Flow 1:

Average throughput: 100.95 Mbit/s

95th percentile per-packet one-way delay: 95.021 ms

Loss rate: 0.85%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-12 21:18:21

End at: 2018-03-12 21:18:51

Below is generated by plot.py at 2018-03-13 01:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.90 Mbit/s

95th percentile per-packet one-way delay: 289.509 ms

Loss rate: 6.67%

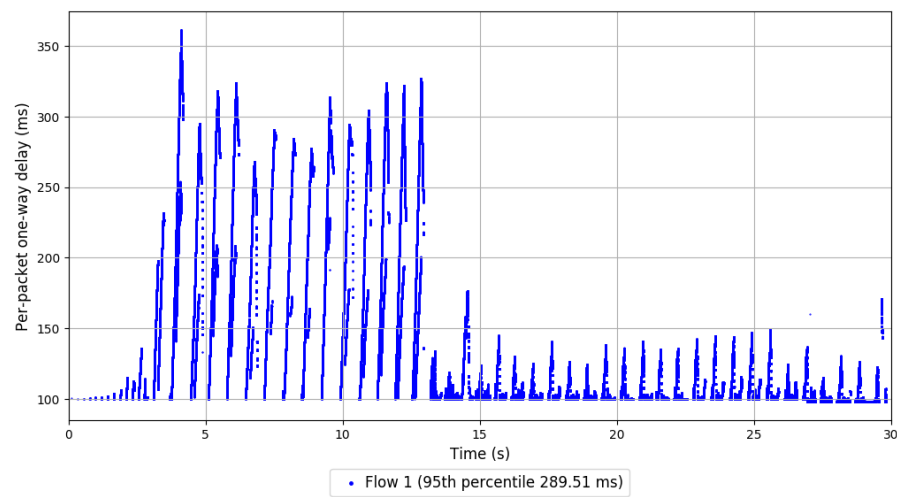
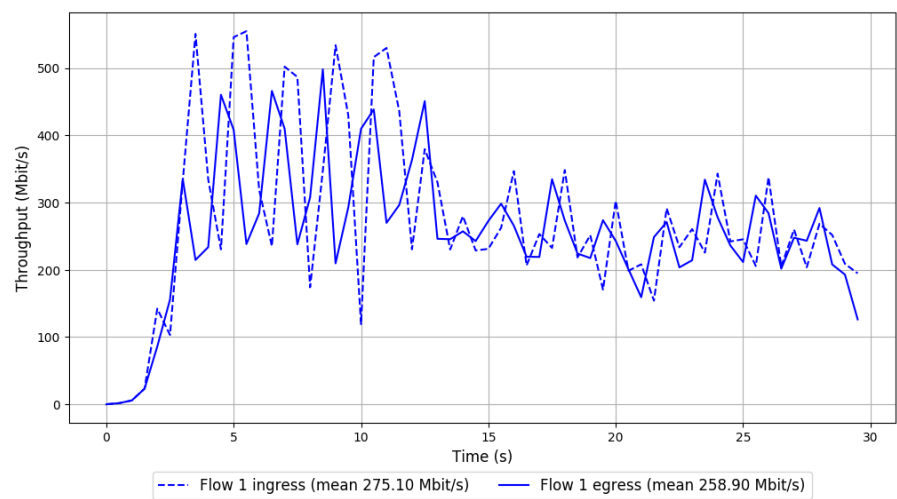
-- Flow 1:

Average throughput: 258.90 Mbit/s

95th percentile per-packet one-way delay: 289.509 ms

Loss rate: 6.67%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-12 21:33:57

End at: 2018-03-12 21:34:27

Below is generated by plot.py at 2018-03-13 01:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.35 Mbit/s

95th percentile per-packet one-way delay: 171.276 ms

Loss rate: 0.00%

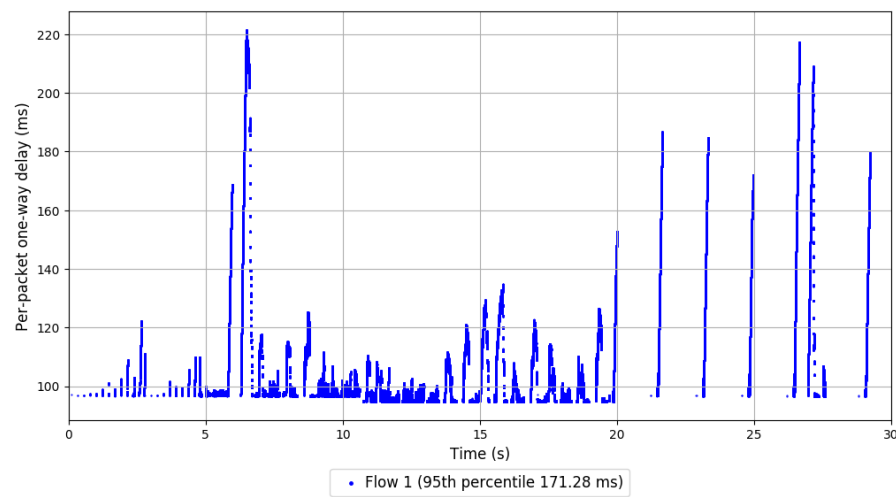
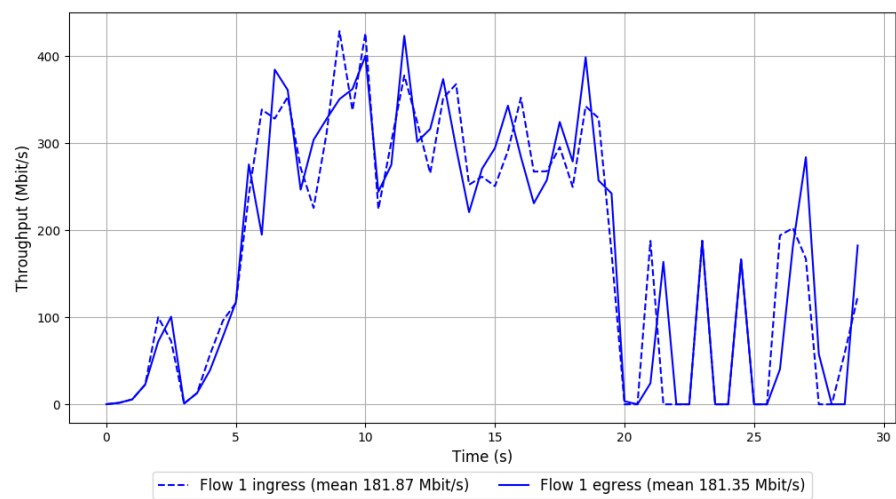
-- Flow 1:

Average throughput: 181.35 Mbit/s

95th percentile per-packet one-way delay: 171.276 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-12 21:49:48

End at: 2018-03-12 21:50:18

Below is generated by plot.py at 2018-03-13 01:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.97 Mbit/s

95th percentile per-packet one-way delay: 129.257 ms

Loss rate: 0.79%

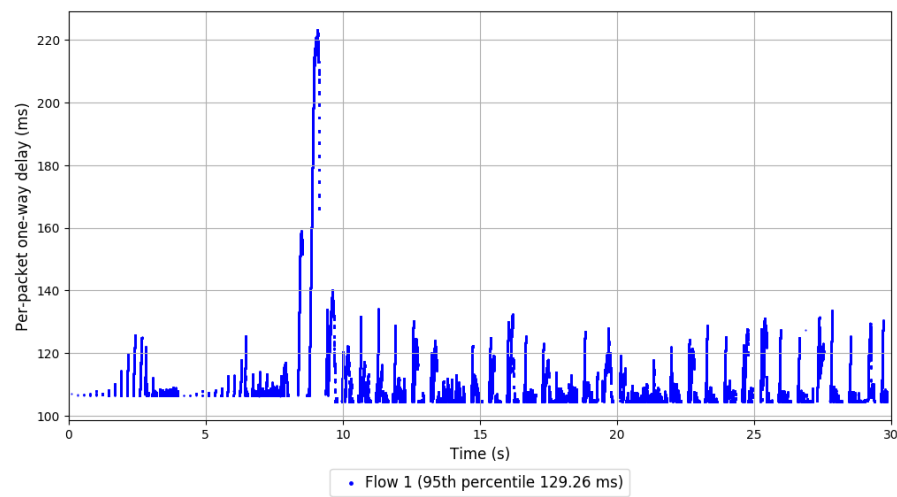
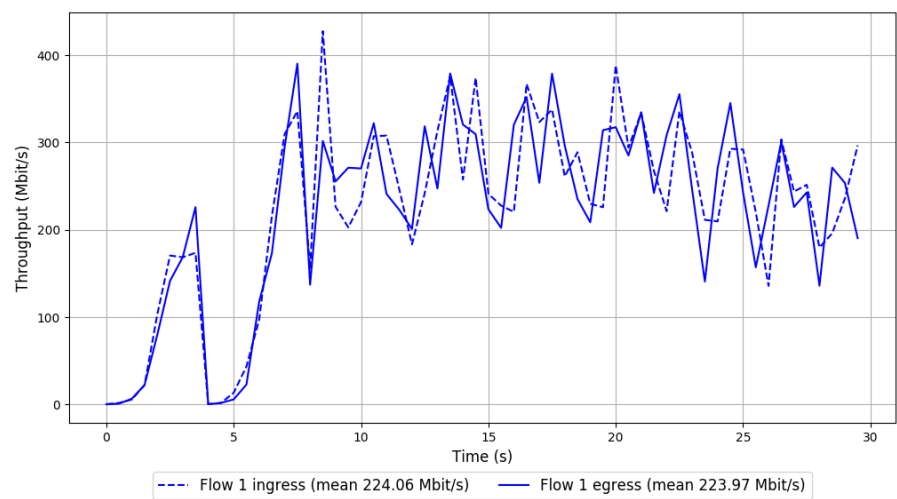
-- Flow 1:

Average throughput: 223.97 Mbit/s

95th percentile per-packet one-way delay: 129.257 ms

Loss rate: 0.79%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-12 22:05:39

End at: 2018-03-12 22:06:09

Below is generated by plot.py at 2018-03-13 01:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 114.339 ms

Loss rate: 2.91%

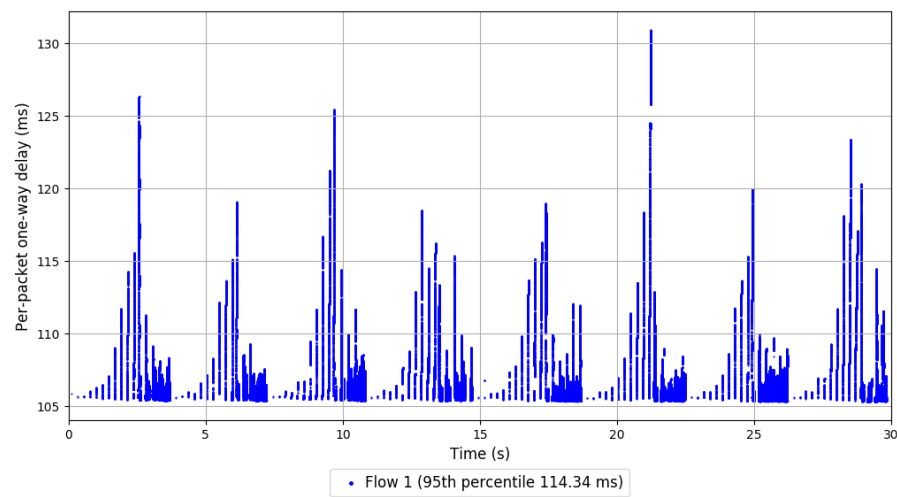
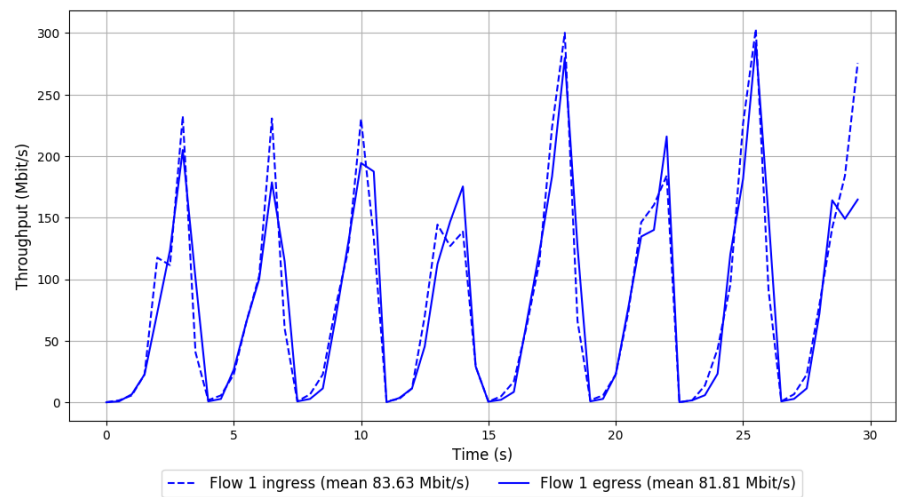
-- Flow 1:

Average throughput: 81.81 Mbit/s

95th percentile per-packet one-way delay: 114.339 ms

Loss rate: 2.91%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-12 22:21:07

End at: 2018-03-12 22:21:38

Below is generated by plot.py at 2018-03-13 01:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.40 Mbit/s

95th percentile per-packet one-way delay: 130.376 ms

Loss rate: 1.08%

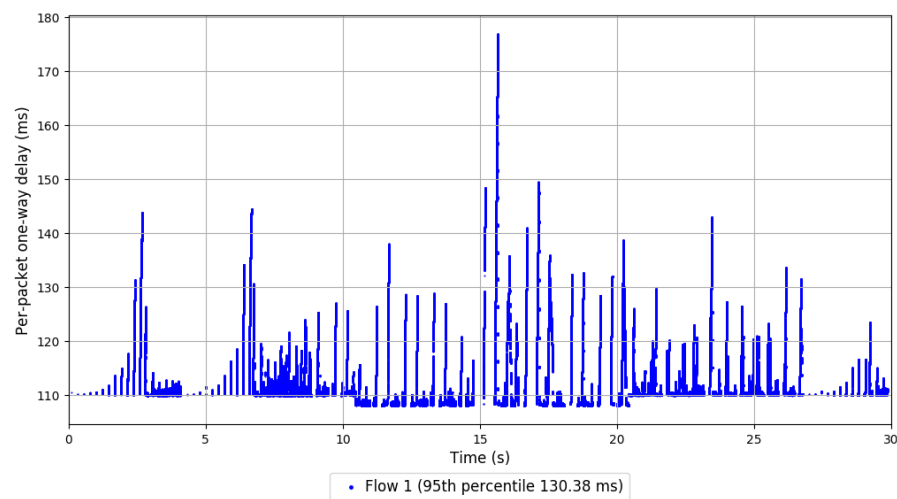
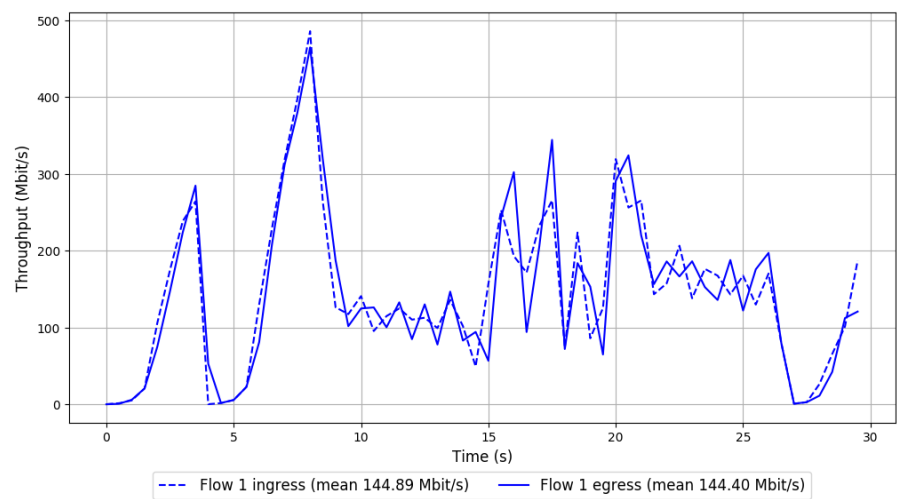
-- Flow 1:

Average throughput: 144.40 Mbit/s

95th percentile per-packet one-way delay: 130.376 ms

Loss rate: 1.08%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-12 19:55:40

End at: 2018-03-12 19:56:10

Below is generated by plot.py at 2018-03-13 01:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 107.067 ms

Loss rate: 0.77%

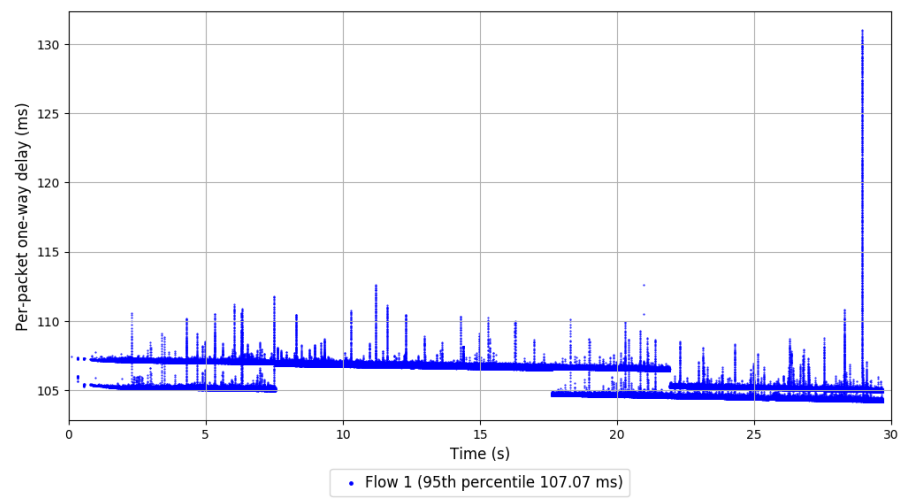
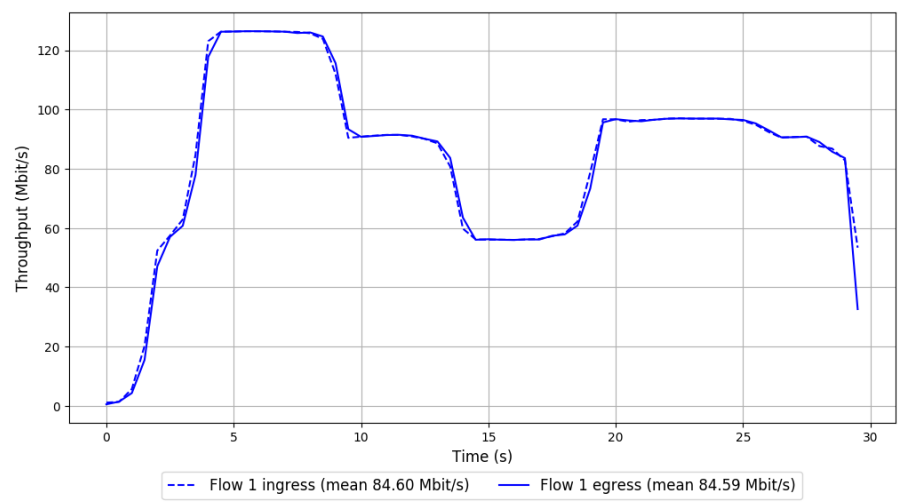
-- Flow 1:

Average throughput: 84.59 Mbit/s

95th percentile per-packet one-way delay: 107.067 ms

Loss rate: 0.77%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-12 20:10:50

End at: 2018-03-12 20:11:20

Below is generated by plot.py at 2018-03-13 01:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 99.040 ms

Loss rate: 0.73%

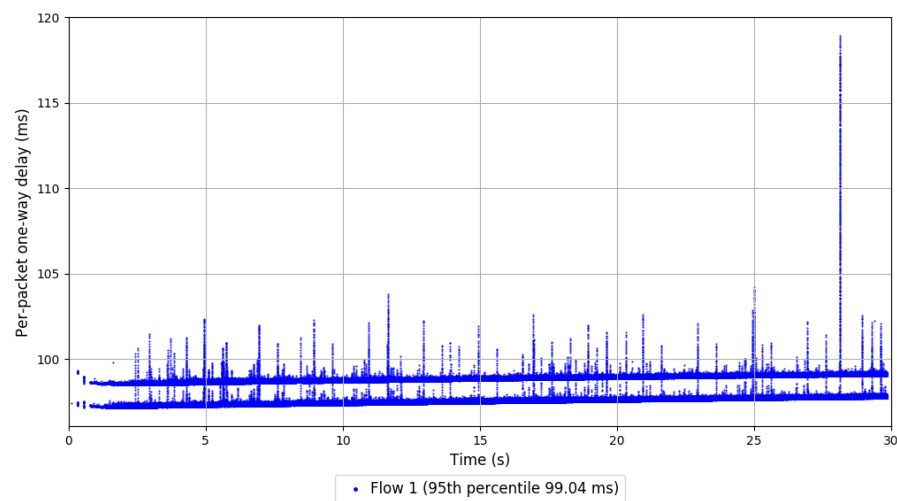
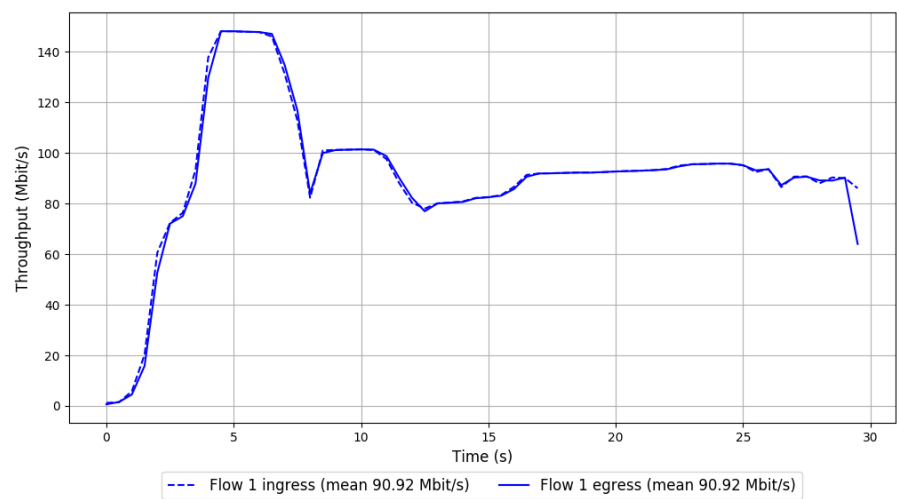
-- Flow 1:

Average throughput: 90.92 Mbit/s

95th percentile per-packet one-way delay: 99.040 ms

Loss rate: 0.73%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-12 20:26:13

End at: 2018-03-12 20:26:43

Below is generated by plot.py at 2018-03-13 01:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 91.265 ms

Loss rate: 0.56%

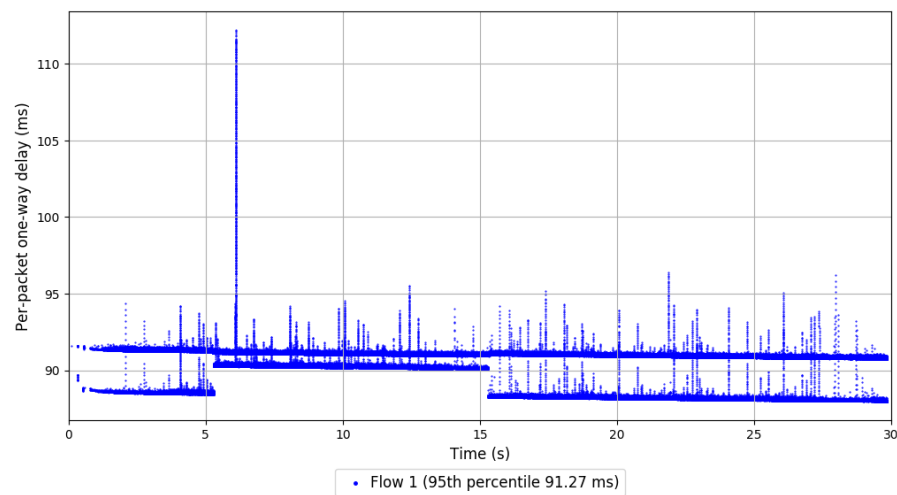
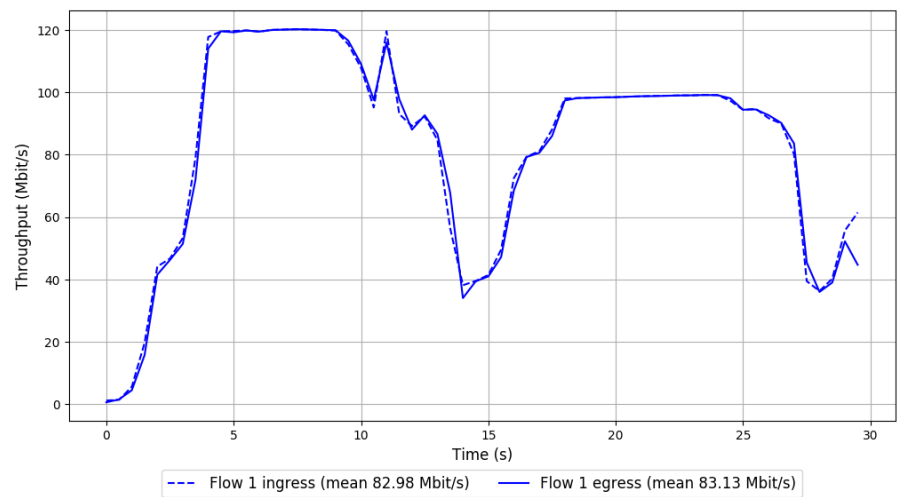
-- Flow 1:

Average throughput: 83.13 Mbit/s

95th percentile per-packet one-way delay: 91.265 ms

Loss rate: 0.56%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-12 20:41:40

End at: 2018-03-12 20:42:10

Below is generated by plot.py at 2018-03-13 01:38:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 95.580 ms

Loss rate: 0.75%

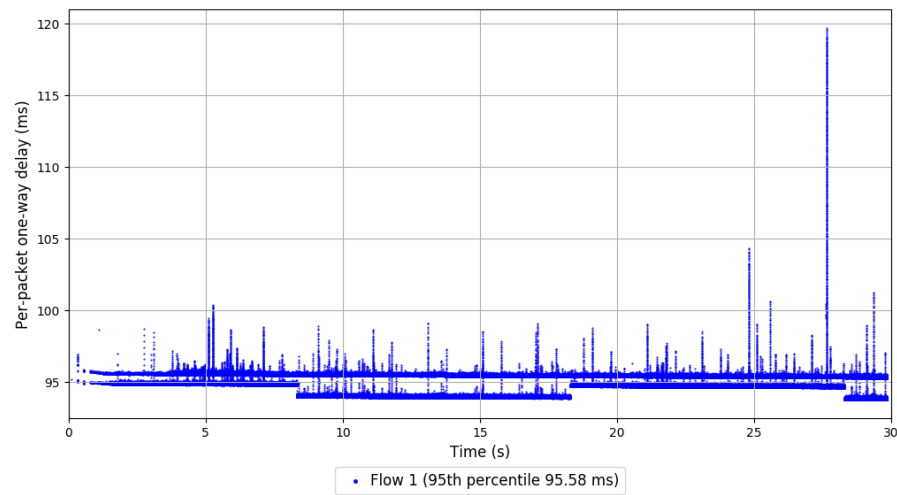
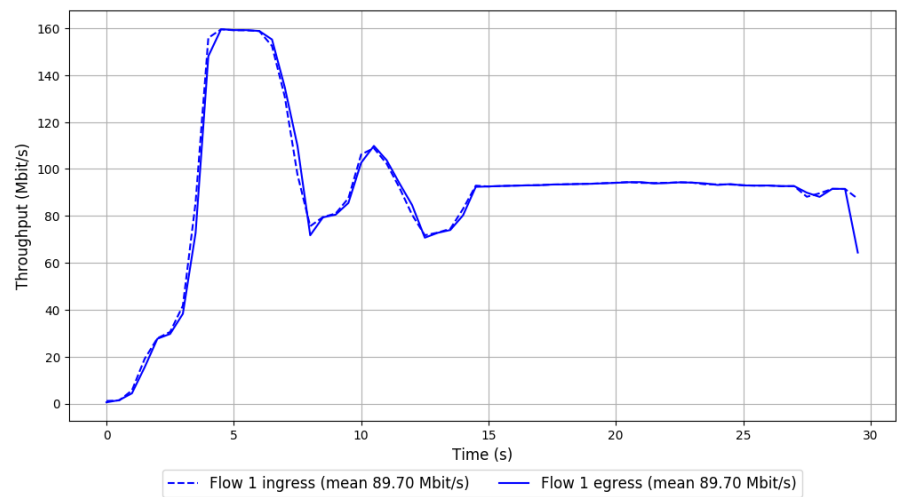
-- Flow 1:

Average throughput: 89.70 Mbit/s

95th percentile per-packet one-way delay: 95.580 ms

Loss rate: 0.75%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-12 20:57:05

End at: 2018-03-12 20:57:35

Below is generated by plot.py at 2018-03-13 01:38:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 84.570 ms

Loss rate: 0.74%

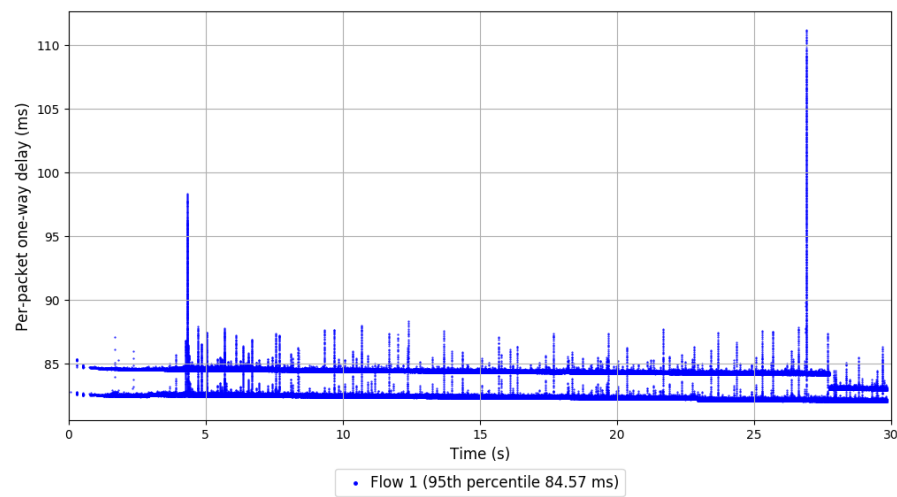
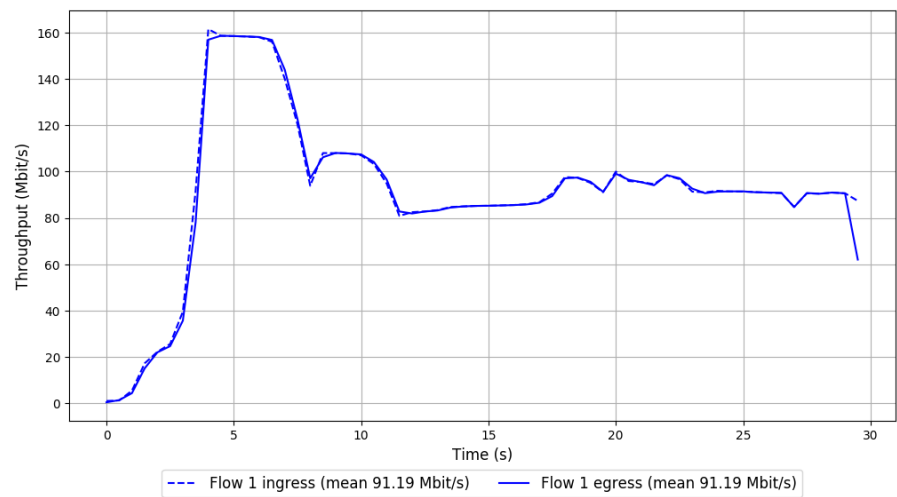
-- Flow 1:

Average throughput: 91.19 Mbit/s

95th percentile per-packet one-way delay: 84.570 ms

Loss rate: 0.74%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-12 21:12:27

End at: 2018-03-12 21:12:57

Below is generated by plot.py at 2018-03-13 01:38:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.95 Mbit/s

95th percentile per-packet one-way delay: 99.723 ms

Loss rate: 0.26%

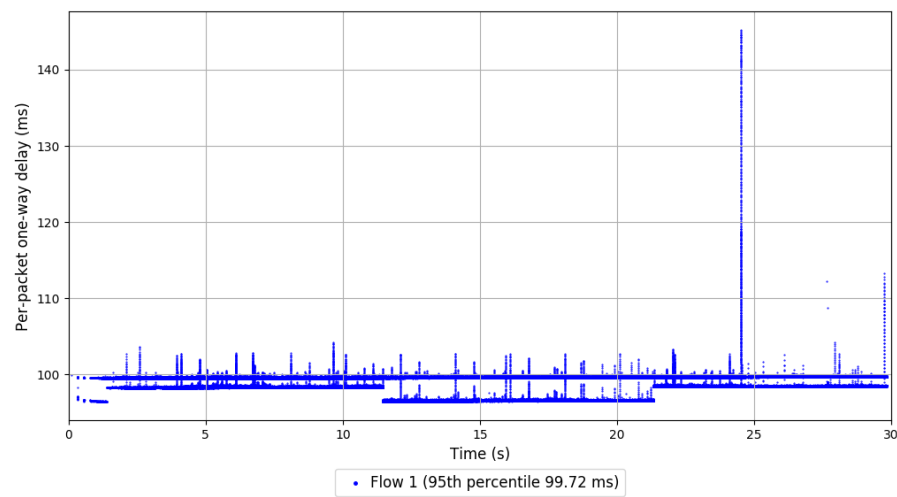
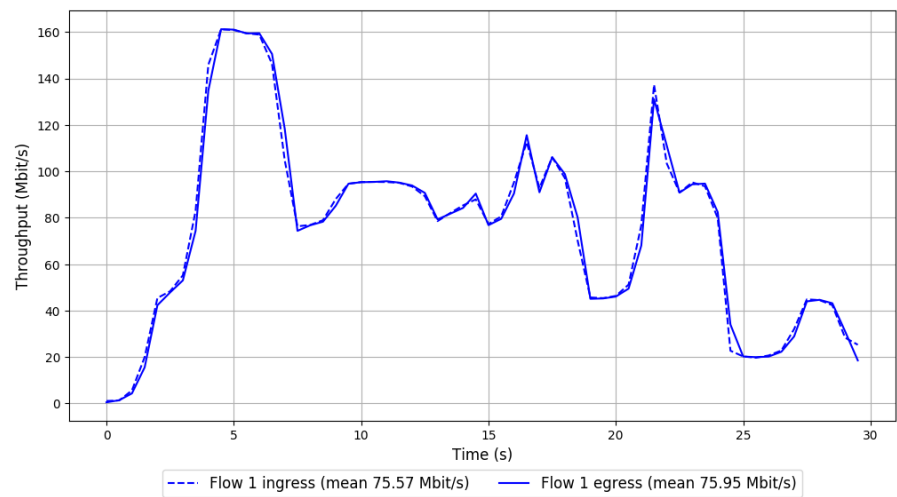
-- Flow 1:

Average throughput: 75.95 Mbit/s

95th percentile per-packet one-way delay: 99.723 ms

Loss rate: 0.26%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-12 21:27:59

End at: 2018-03-12 21:28:29

Below is generated by plot.py at 2018-03-13 01:39:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 98.816 ms

Loss rate: 0.78%

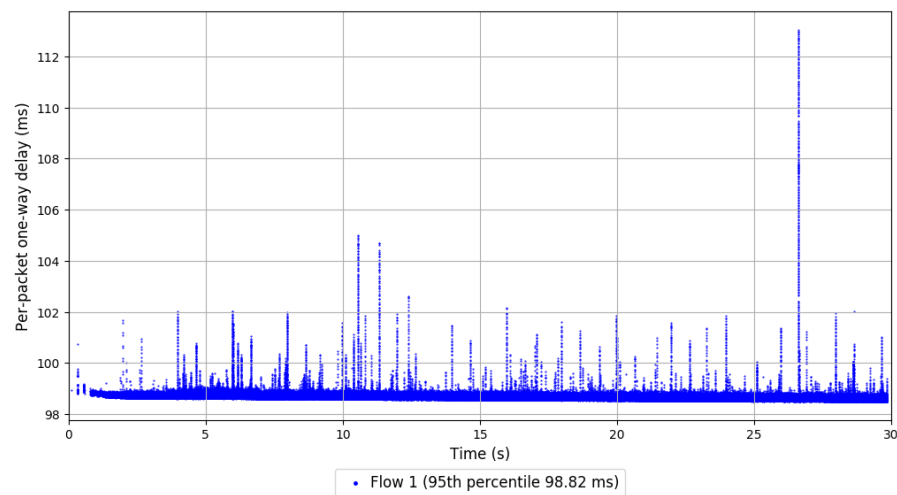
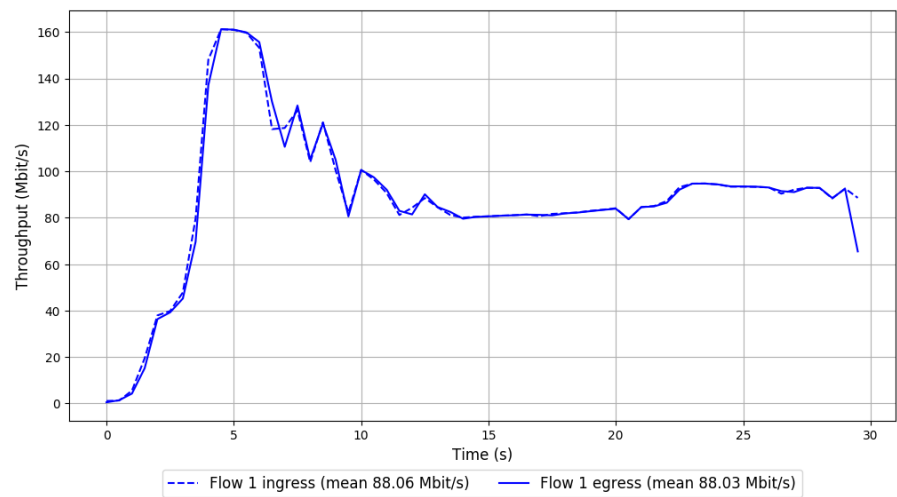
-- Flow 1:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 98.816 ms

Loss rate: 0.78%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-12 21:43:46

End at: 2018-03-12 21:44:16

Below is generated by plot.py at 2018-03-13 01:39:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.12 Mbit/s

95th percentile per-packet one-way delay: 104.950 ms

Loss rate: 0.57%

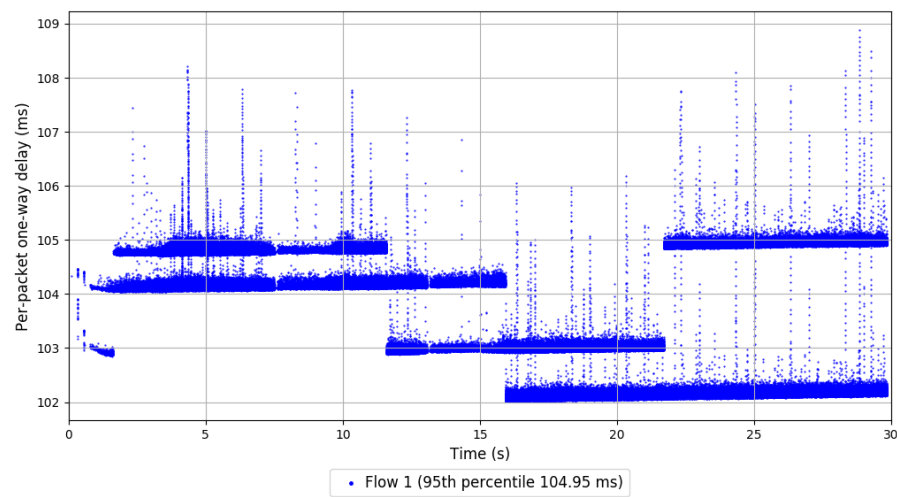
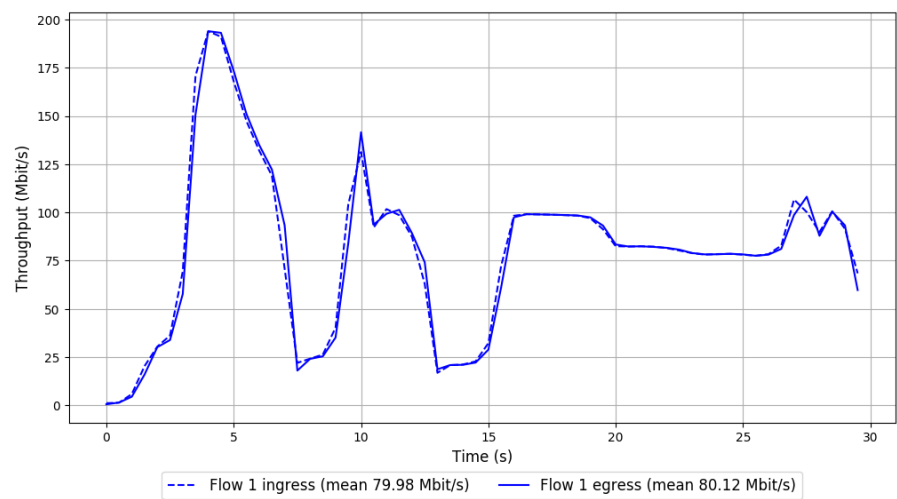
-- Flow 1:

Average throughput: 80.12 Mbit/s

95th percentile per-packet one-way delay: 104.950 ms

Loss rate: 0.57%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-12 21:59:40

End at: 2018-03-12 22:00:10

Below is generated by plot.py at 2018-03-13 01:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 106.227 ms

Loss rate: 0.64%

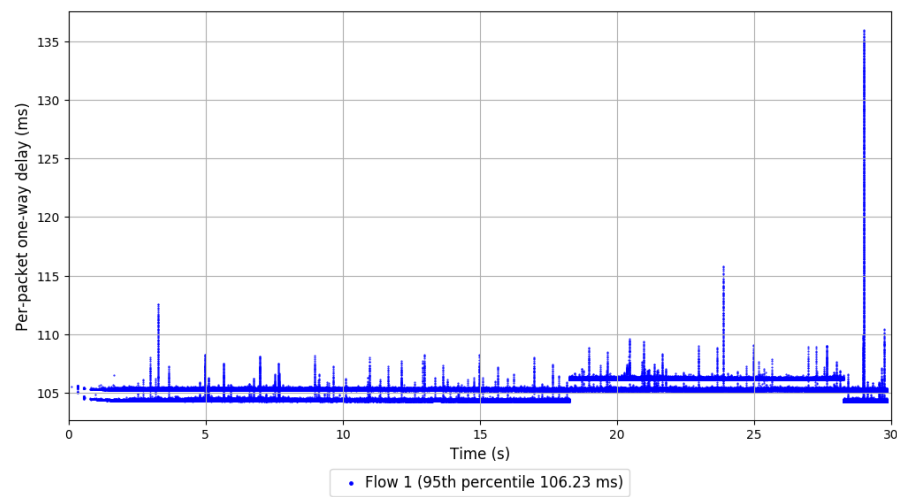
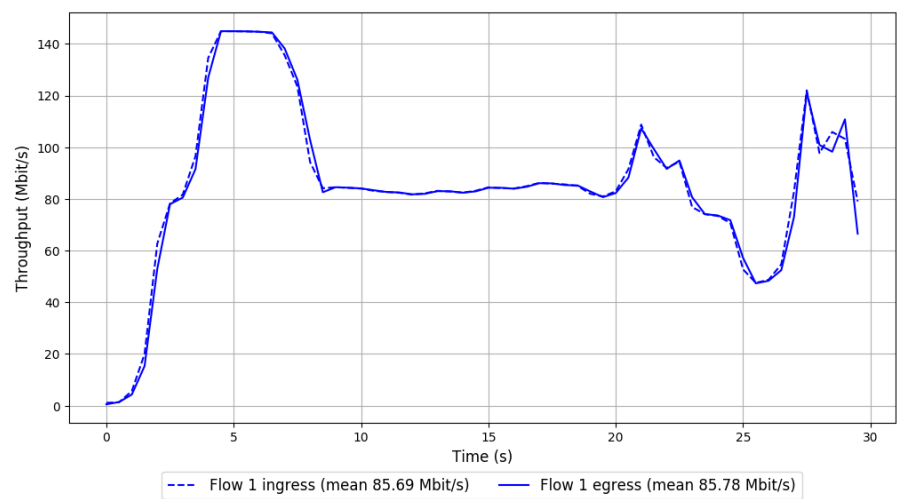
-- Flow 1:

Average throughput: 85.78 Mbit/s

95th percentile per-packet one-way delay: 106.227 ms

Loss rate: 0.64%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-12 22:15:10

End at: 2018-03-12 22:15:40

Below is generated by plot.py at 2018-03-13 01:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 108.888 ms

Loss rate: 0.71%

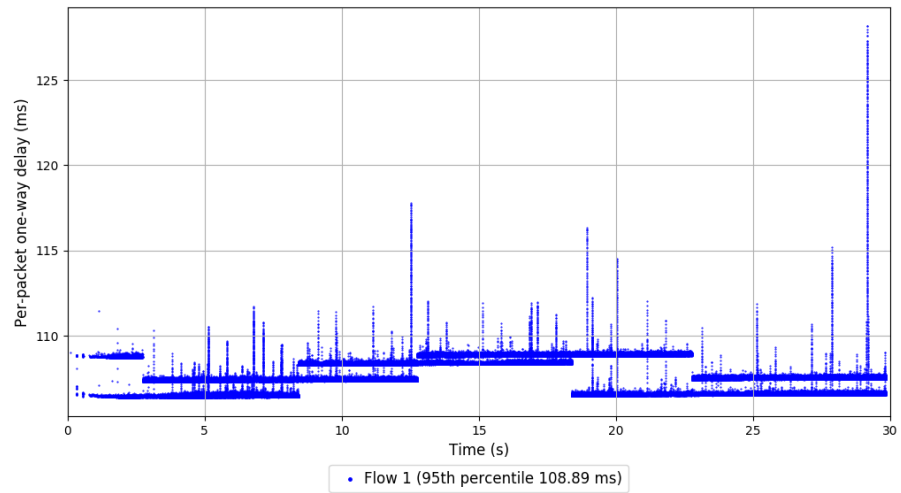
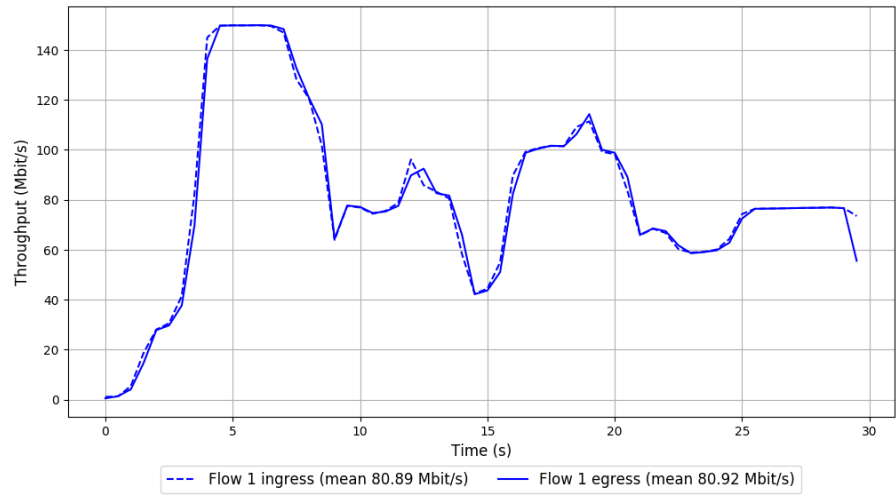
-- Flow 1:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 108.888 ms

Loss rate: 0.71%

Run 10: Report of Copa — Data Link

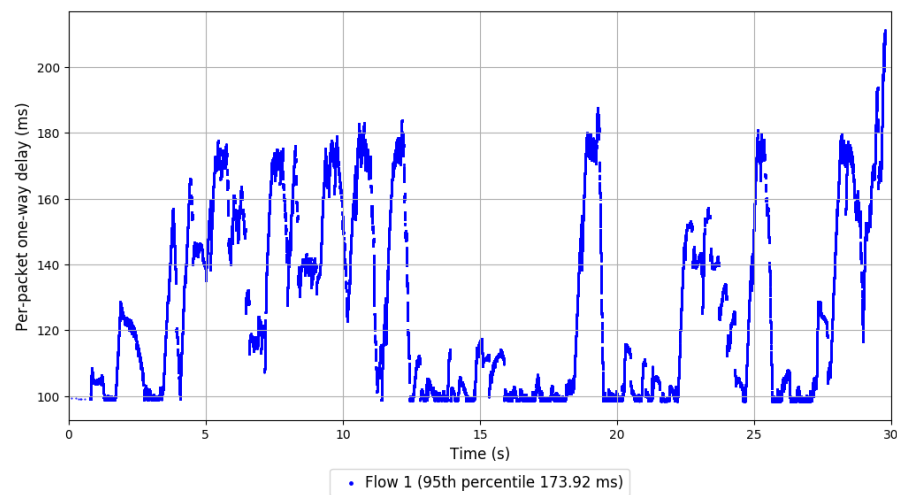
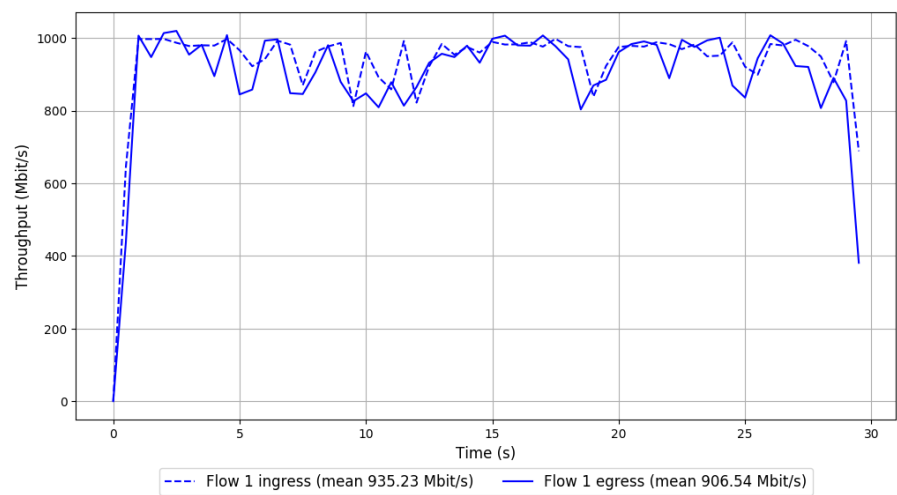


```
Run 1: Statistics of FillP

Start at: 2018-03-12 20:08:52
End at: 2018-03-12 20:09:22

# Below is generated by plot.py at 2018-03-13 01:53:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 906.54 Mbit/s
95th percentile per-packet one-way delay: 173.916 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 906.54 Mbit/s
95th percentile per-packet one-way delay: 173.916 ms
Loss rate: 3.79%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-12 20:24:15

End at: 2018-03-12 20:24:45

Below is generated by plot.py at 2018-03-13 01:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 912.49 Mbit/s

95th percentile per-packet one-way delay: 173.961 ms

Loss rate: 3.63%

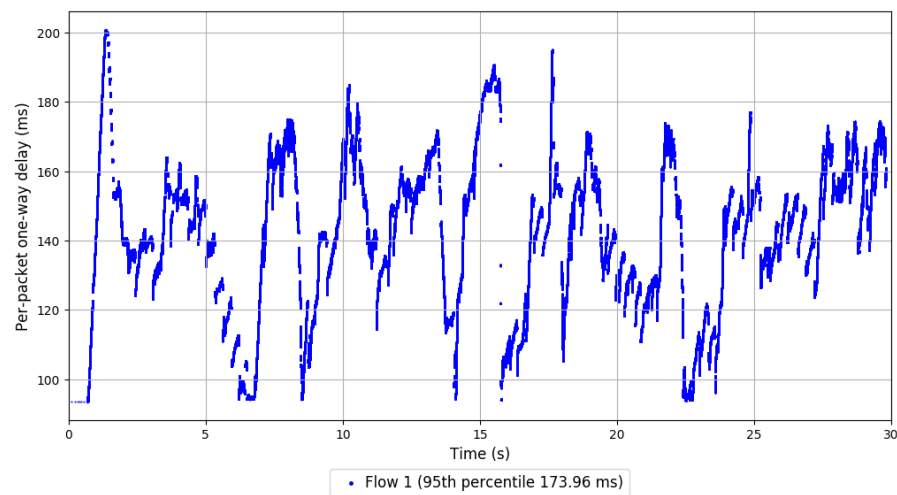
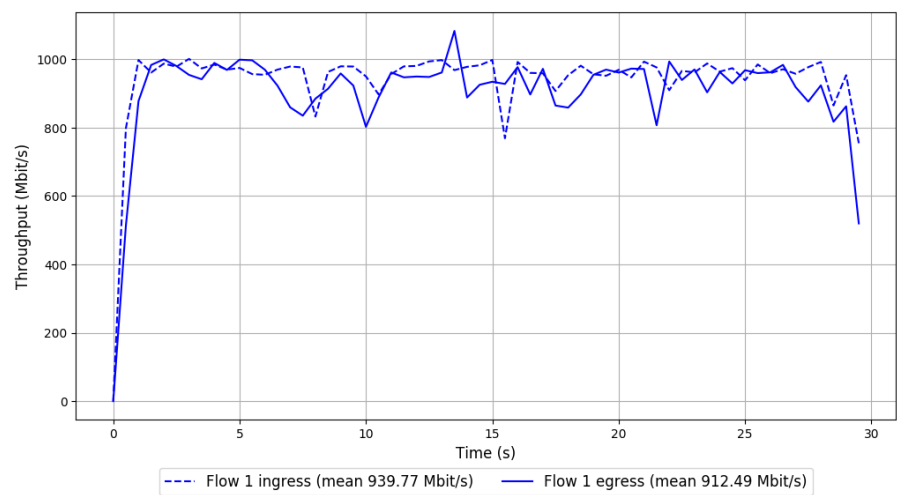
-- Flow 1:

Average throughput: 912.49 Mbit/s

95th percentile per-packet one-way delay: 173.961 ms

Loss rate: 3.63%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-12 20:39:42

End at: 2018-03-12 20:40:12

Below is generated by plot.py at 2018-03-13 01:54:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 898.74 Mbit/s

95th percentile per-packet one-way delay: 168.237 ms

Loss rate: 4.17%

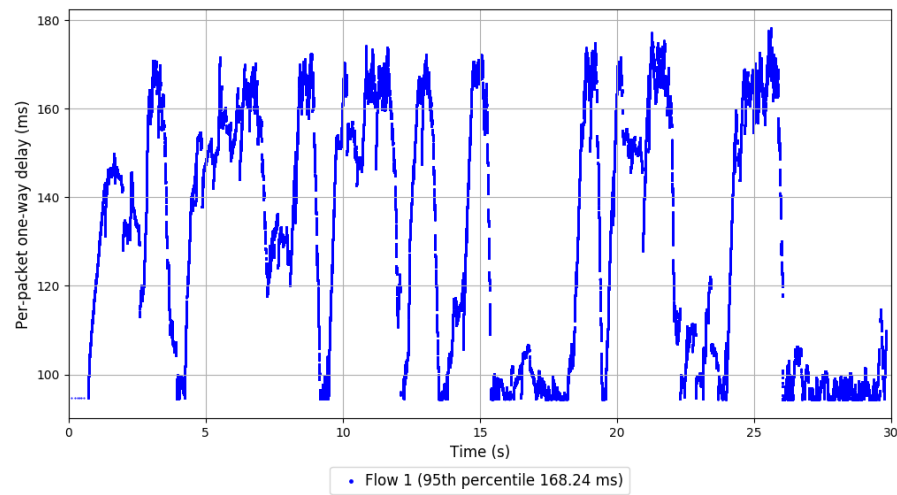
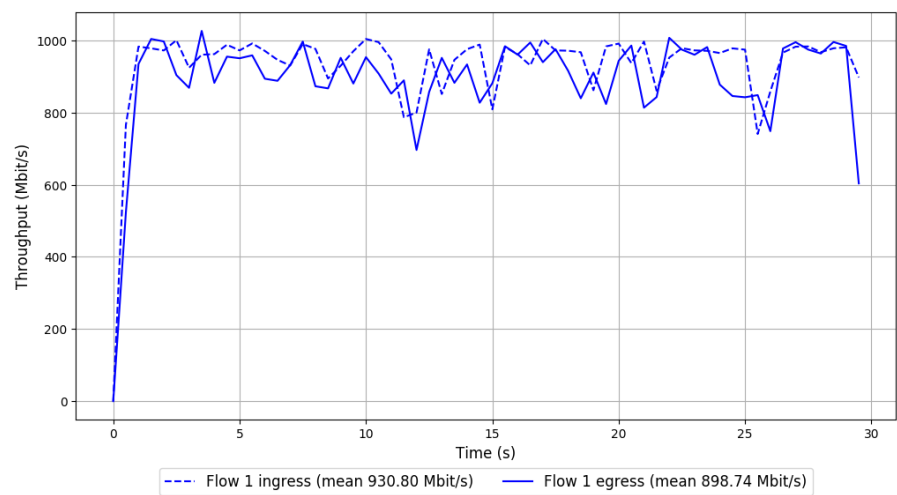
-- Flow 1:

Average throughput: 898.74 Mbit/s

95th percentile per-packet one-way delay: 168.237 ms

Loss rate: 4.17%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-12 20:55:09

End at: 2018-03-12 20:55:39

Below is generated by plot.py at 2018-03-13 01:54:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 859.47 Mbit/s

95th percentile per-packet one-way delay: 171.540 ms

Loss rate: 5.43%

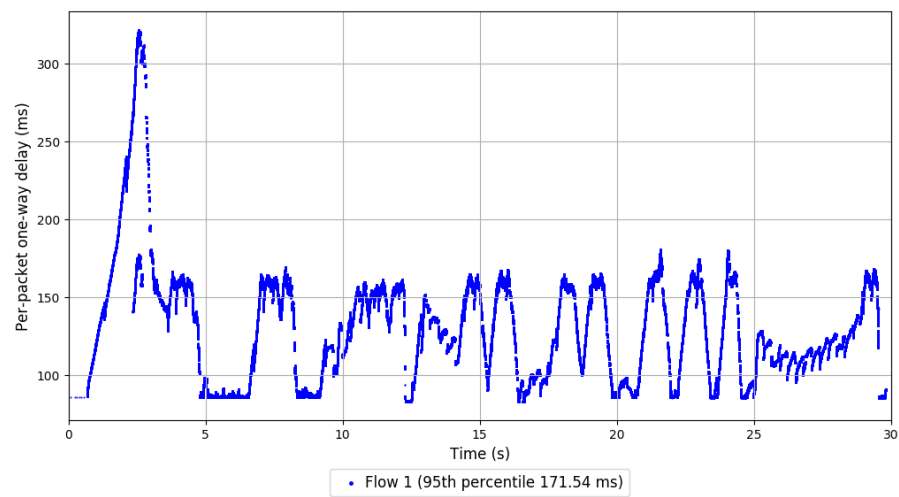
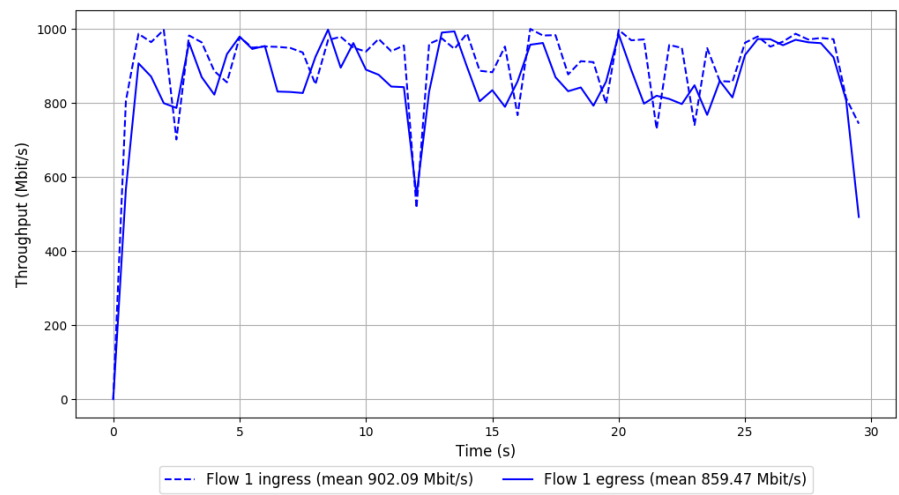
-- Flow 1:

Average throughput: 859.47 Mbit/s

95th percentile per-packet one-way delay: 171.540 ms

Loss rate: 5.43%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-12 21:10:29

End at: 2018-03-12 21:11:00

Below is generated by plot.py at 2018-03-13 01:54:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 886.16 Mbit/s

95th percentile per-packet one-way delay: 186.870 ms

Loss rate: 4.37%

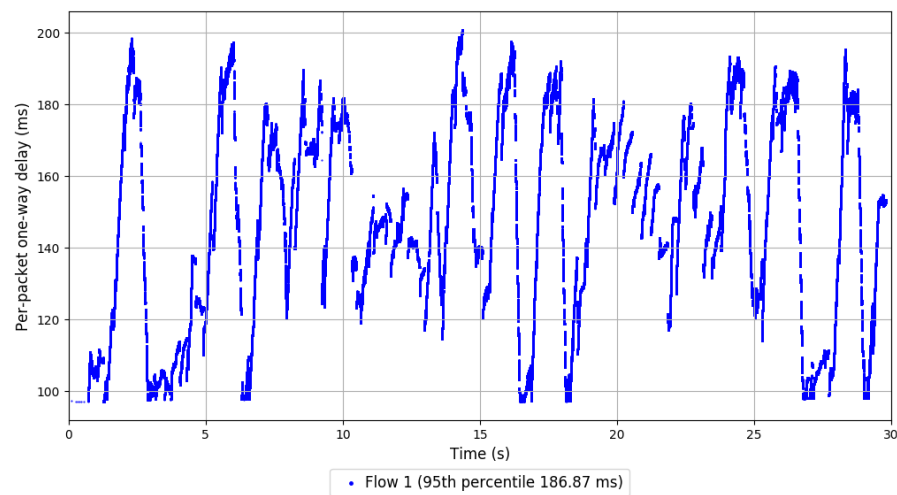
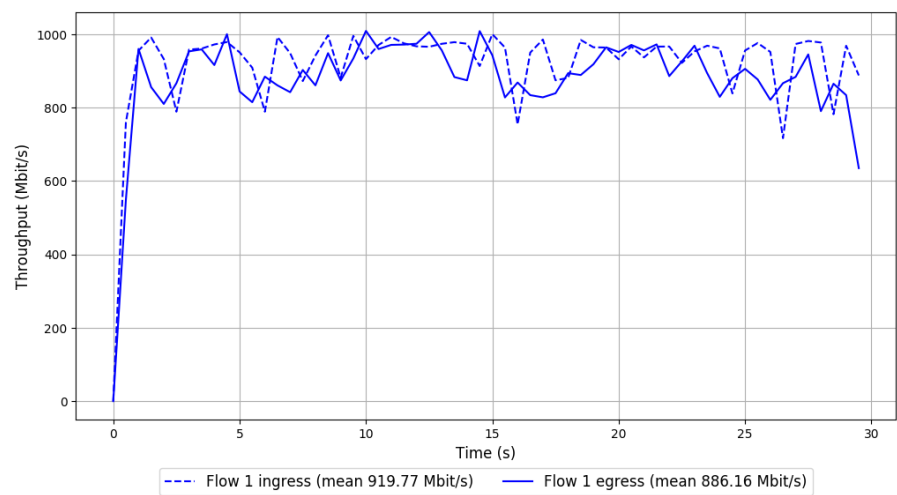
-- Flow 1:

Average throughput: 886.16 Mbit/s

95th percentile per-packet one-way delay: 186.870 ms

Loss rate: 4.37%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-12 21:26:01

End at: 2018-03-12 21:26:31

Below is generated by plot.py at 2018-03-13 01:54:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 905.20 Mbit/s

95th percentile per-packet one-way delay: 174.278 ms

Loss rate: 4.11%

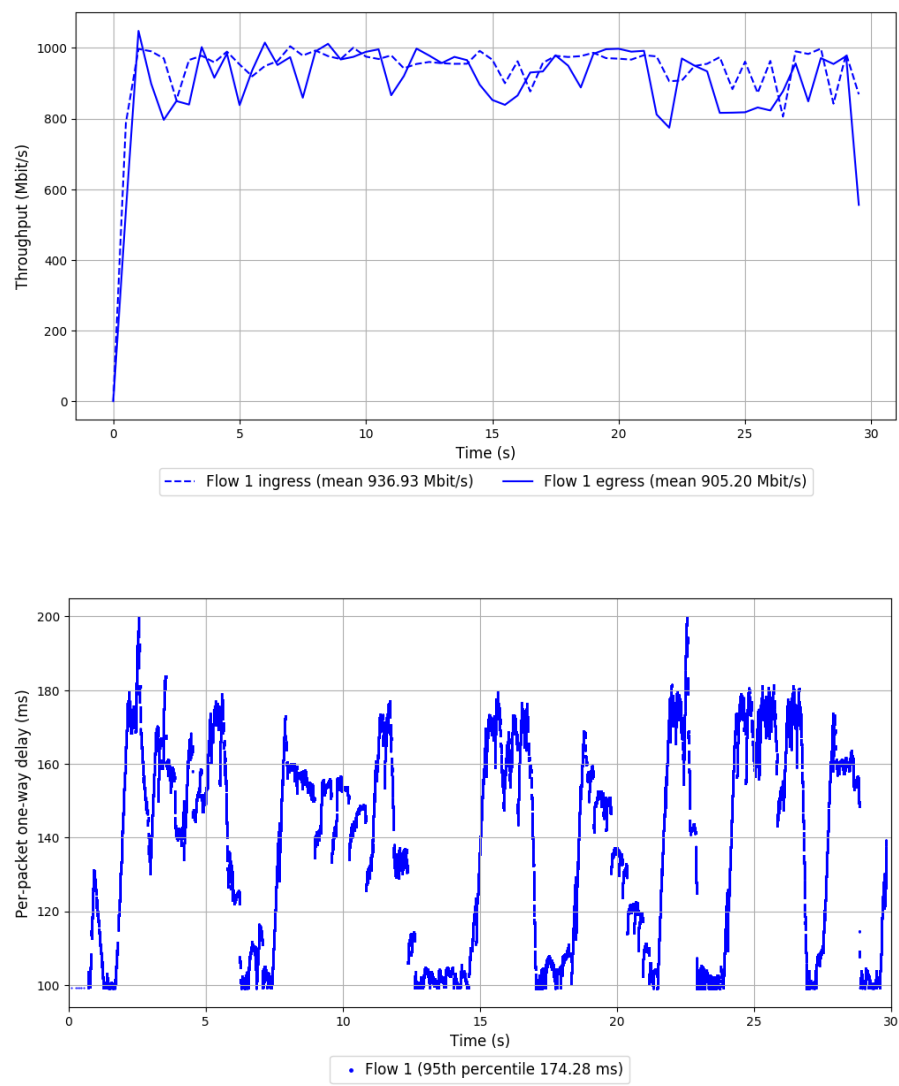
-- Flow 1:

Average throughput: 905.20 Mbit/s

95th percentile per-packet one-way delay: 174.278 ms

Loss rate: 4.11%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-12 21:41:48

End at: 2018-03-12 21:42:18

Below is generated by plot.py at 2018-03-13 01:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 943.07 Mbit/s

95th percentile per-packet one-way delay: 180.108 ms

Loss rate: 1.46%

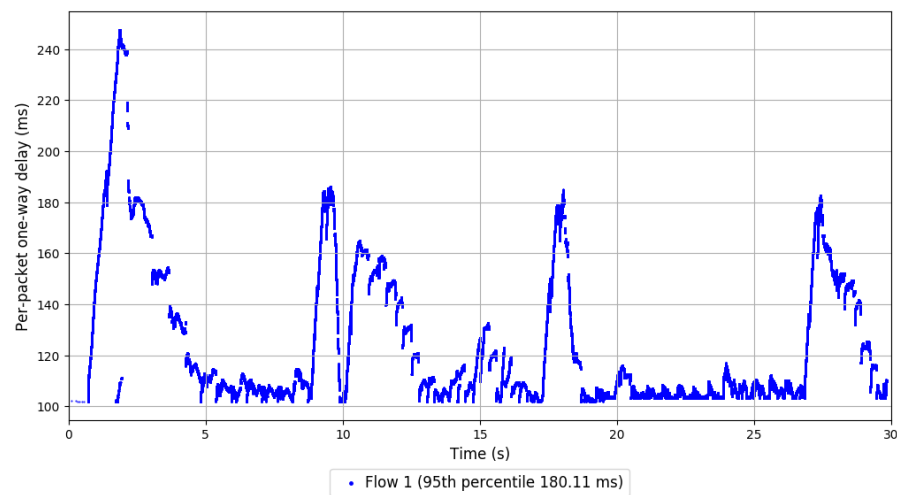
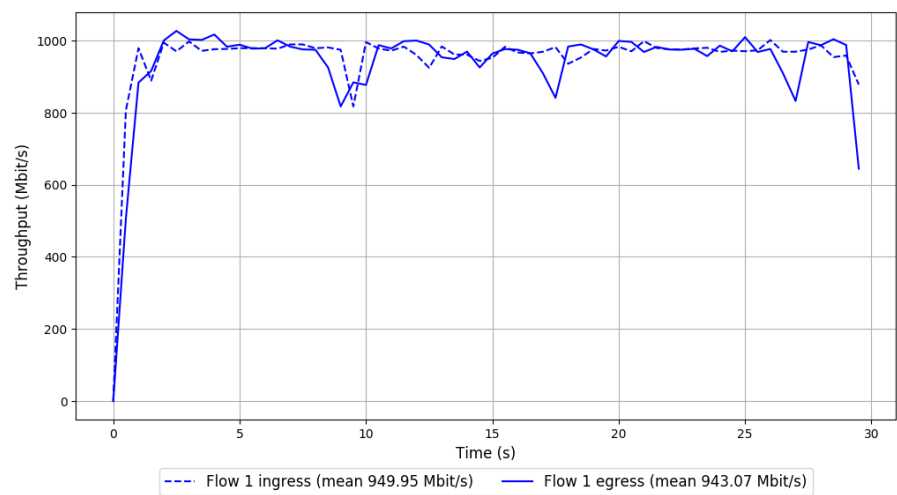
-- Flow 1:

Average throughput: 943.07 Mbit/s

95th percentile per-packet one-way delay: 180.108 ms

Loss rate: 1.46%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-12 21:57:44

End at: 2018-03-12 21:58:14

Below is generated by plot.py at 2018-03-13 01:56:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 885.60 Mbit/s

95th percentile per-packet one-way delay: 247.436 ms

Loss rate: 2.17%

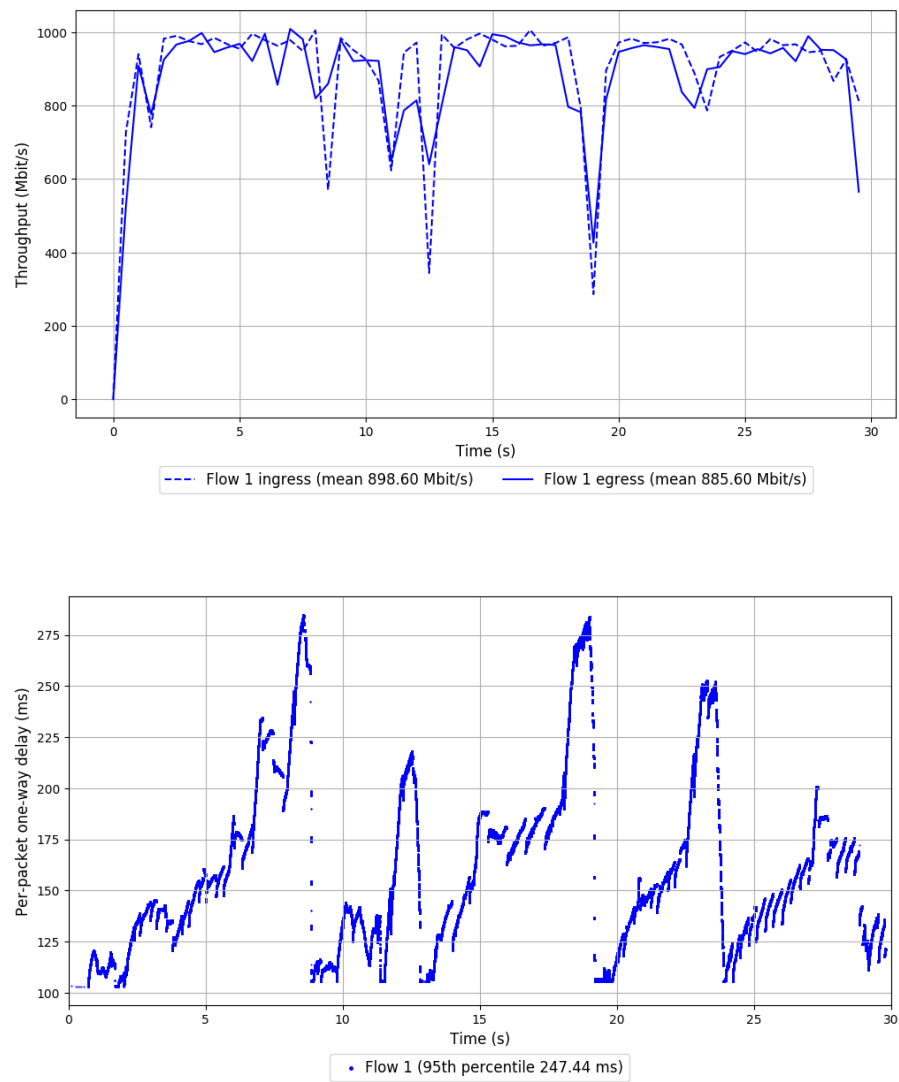
-- Flow 1:

Average throughput: 885.60 Mbit/s

95th percentile per-packet one-way delay: 247.436 ms

Loss rate: 2.17%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-12 22:13:13

End at: 2018-03-12 22:13:43

Below is generated by plot.py at 2018-03-13 02:09:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 896.87 Mbit/s

95th percentile per-packet one-way delay: 186.515 ms

Loss rate: 3.85%

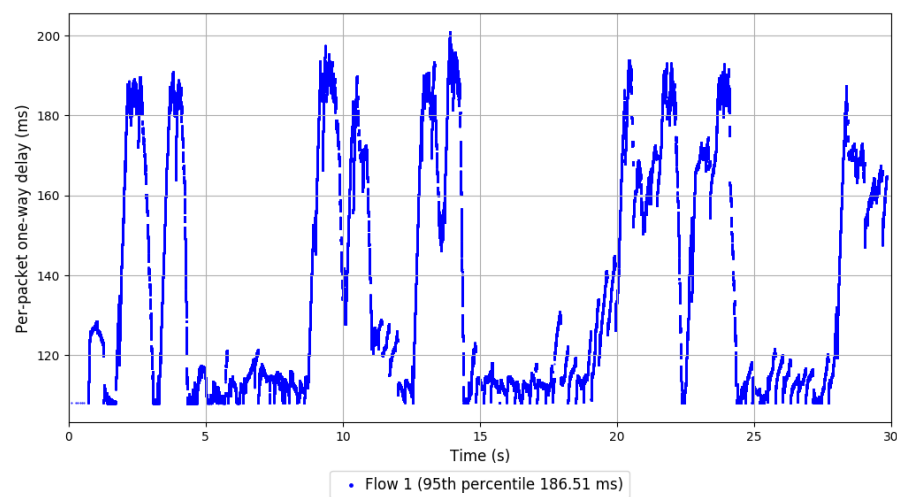
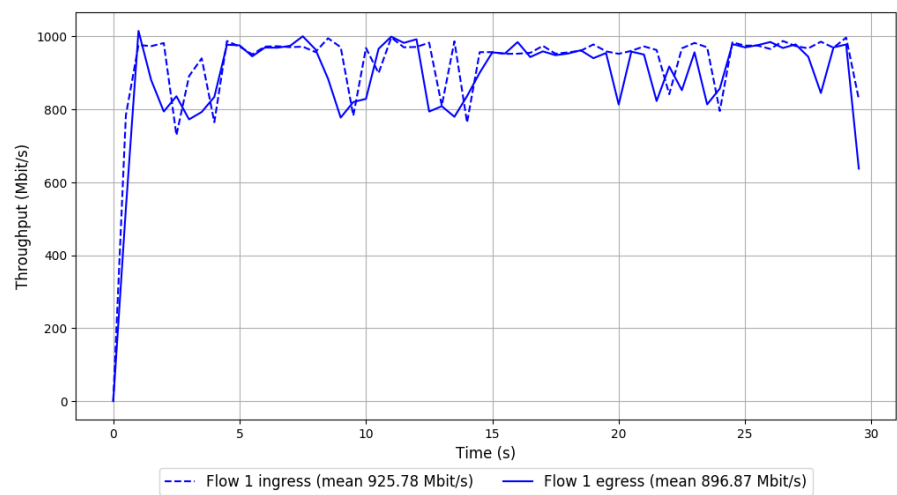
-- Flow 1:

Average throughput: 896.87 Mbit/s

95th percentile per-packet one-way delay: 186.515 ms

Loss rate: 3.85%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-12 22:28:42

End at: 2018-03-12 22:29:12

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 902.82 Mbit/s

95th percentile per-packet one-way delay: 247.118 ms

Loss rate: 2.39%

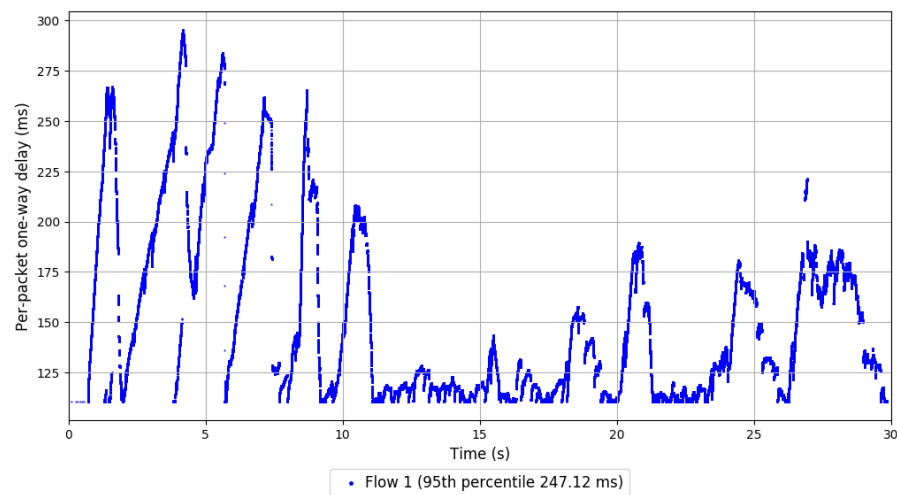
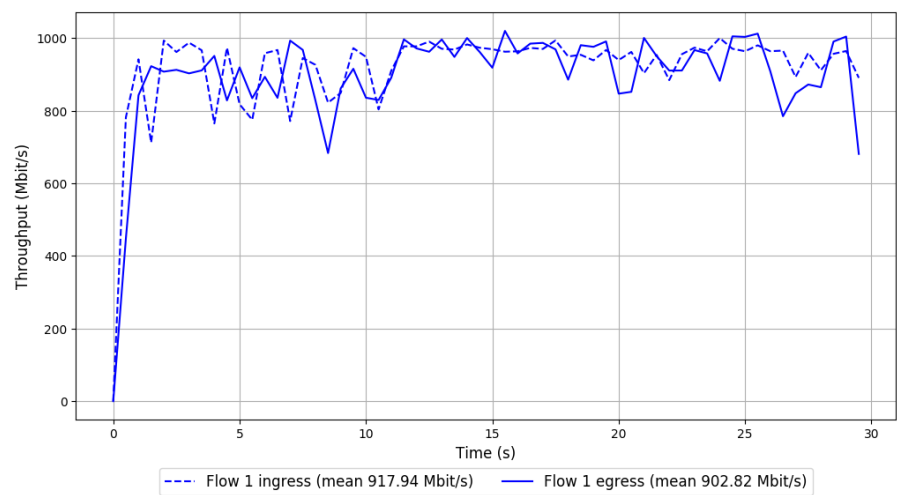
-- Flow 1:

Average throughput: 902.82 Mbit/s

95th percentile per-packet one-way delay: 247.118 ms

Loss rate: 2.39%

Run 10: Report of FillP — Data Link

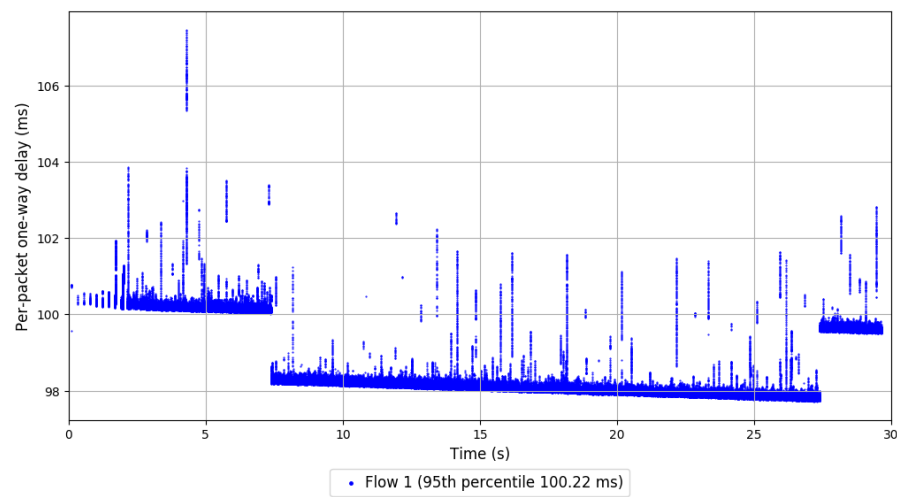
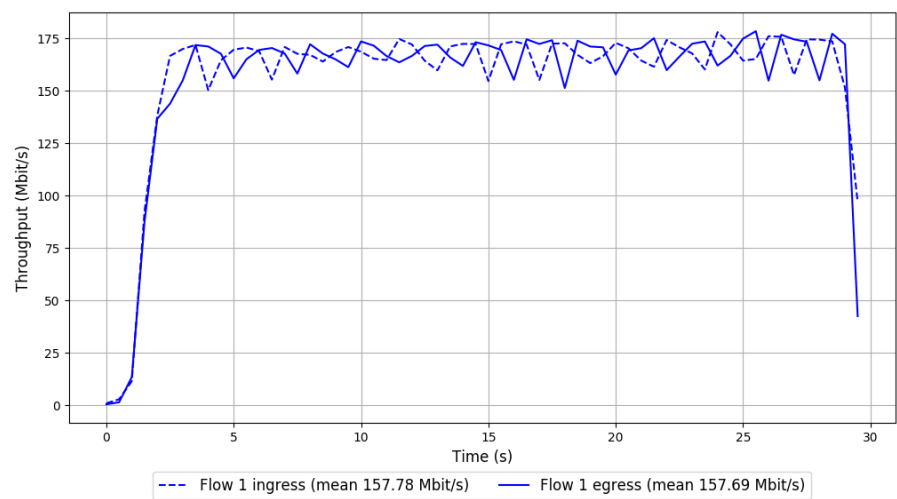


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-12 20:07:20
End at: 2018-03-12 20:07:50

# Below is generated by plot.py at 2018-03-13 02:09:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.69 Mbit/s
95th percentile per-packet one-way delay: 100.220 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 157.69 Mbit/s
95th percentile per-packet one-way delay: 100.220 ms
Loss rate: 0.79%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-12 20:22:43

End at: 2018-03-12 20:23:14

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.71 Mbit/s

95th percentile per-packet one-way delay: 94.262 ms

Loss rate: 0.73%

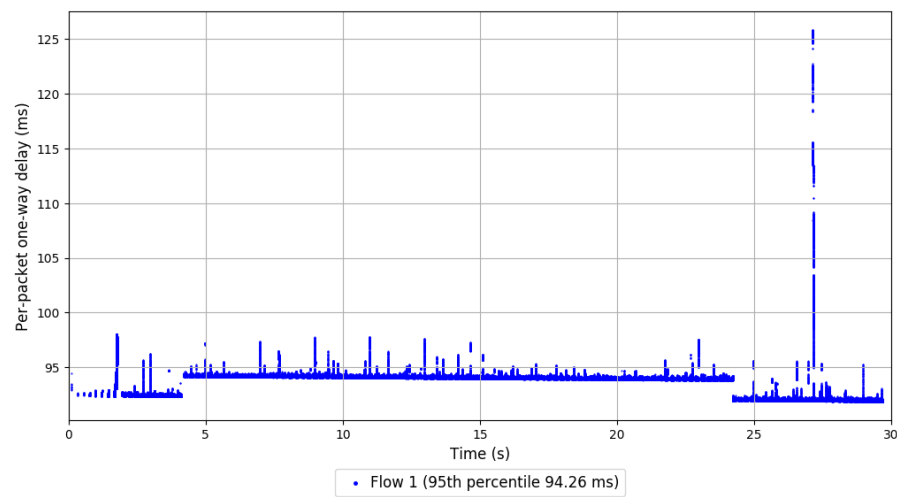
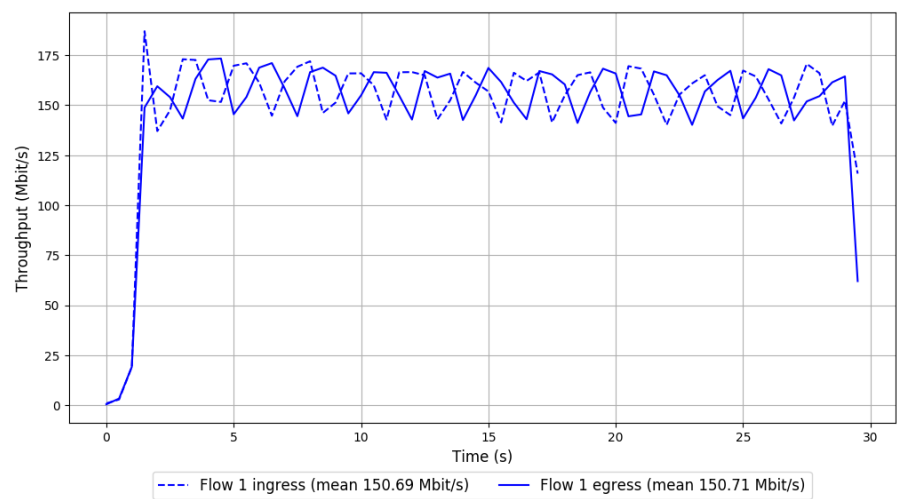
-- Flow 1:

Average throughput: 150.71 Mbit/s

95th percentile per-packet one-way delay: 94.262 ms

Loss rate: 0.73%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-12 20:38:11

End at: 2018-03-12 20:38:41

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.04 Mbit/s

95th percentile per-packet one-way delay: 96.952 ms

Loss rate: 0.78%

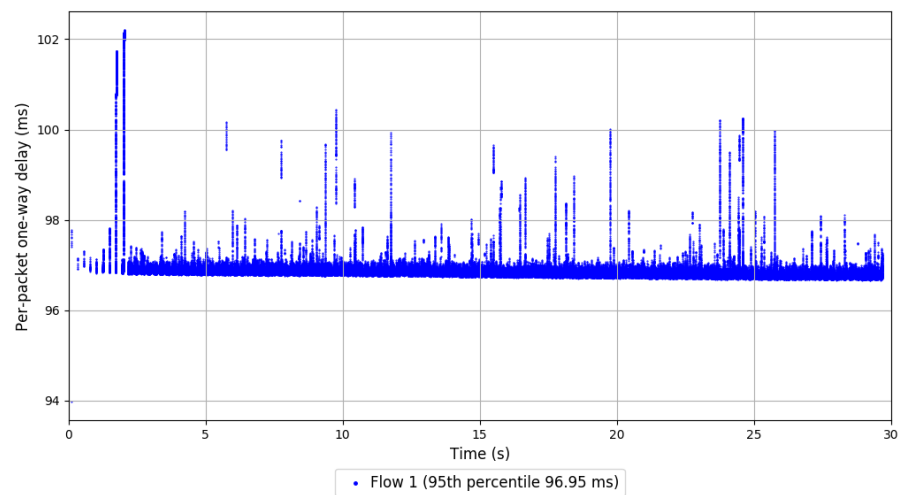
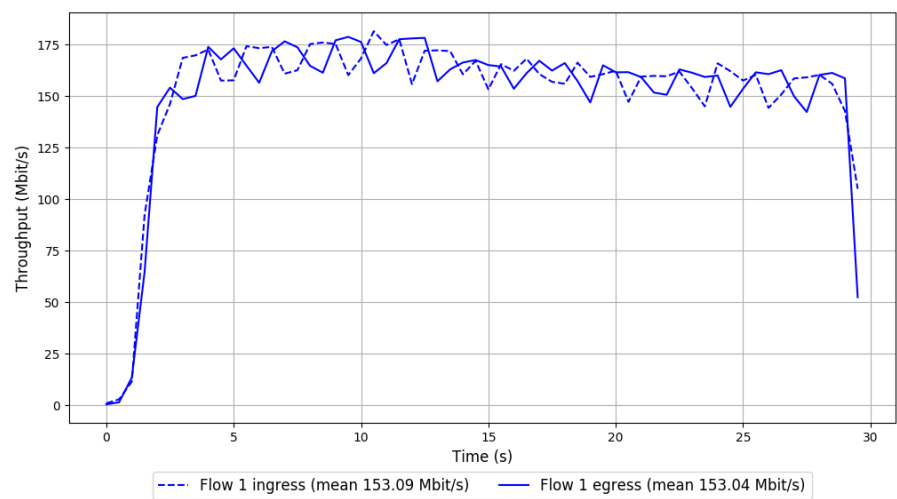
-- Flow 1:

Average throughput: 153.04 Mbit/s

95th percentile per-packet one-way delay: 96.952 ms

Loss rate: 0.78%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-12 20:53:37

End at: 2018-03-12 20:54:07

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.06 Mbit/s

95th percentile per-packet one-way delay: 87.457 ms

Loss rate: 0.78%

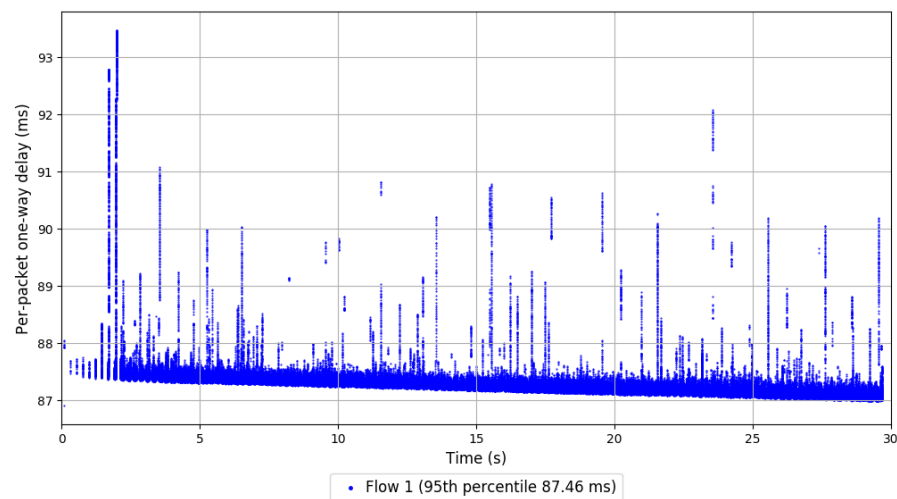
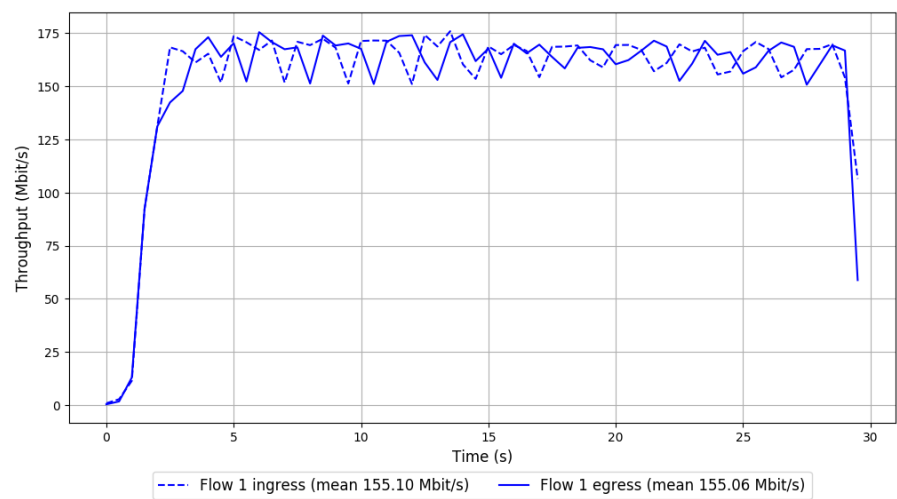
-- Flow 1:

Average throughput: 155.06 Mbit/s

95th percentile per-packet one-way delay: 87.457 ms

Loss rate: 0.78%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-12 21:08:58

End at: 2018-03-12 21:09:28

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.31 Mbit/s

95th percentile per-packet one-way delay: 96.223 ms

Loss rate: 0.78%

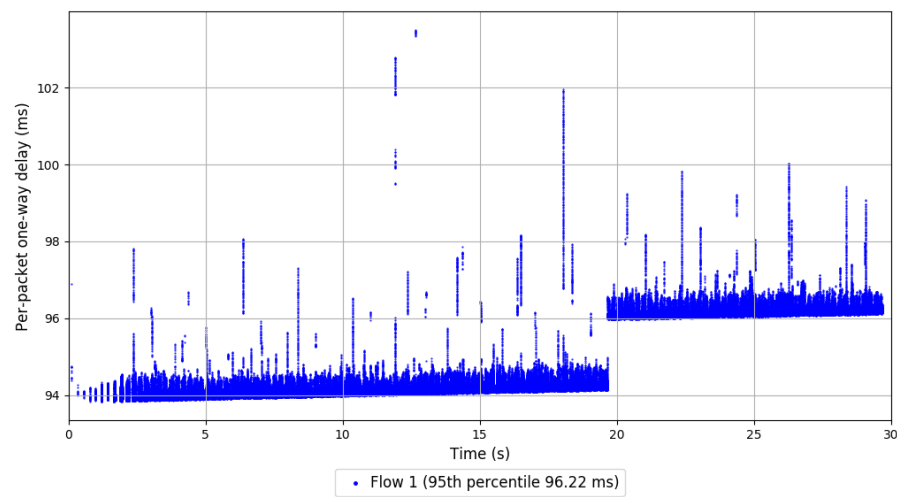
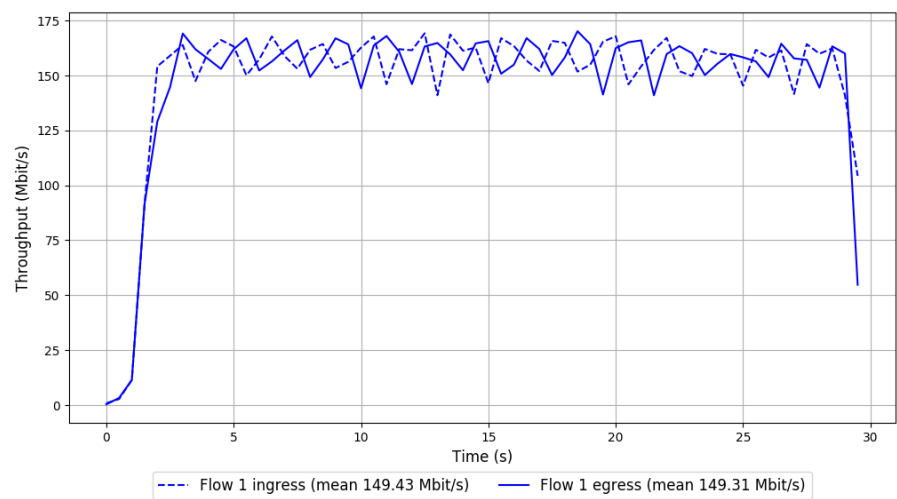
-- Flow 1:

Average throughput: 149.31 Mbit/s

95th percentile per-packet one-way delay: 96.223 ms

Loss rate: 0.78%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-12 21:24:26

End at: 2018-03-12 21:24:56

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.70 Mbit/s

95th percentile per-packet one-way delay: 97.313 ms

Loss rate: 0.76%

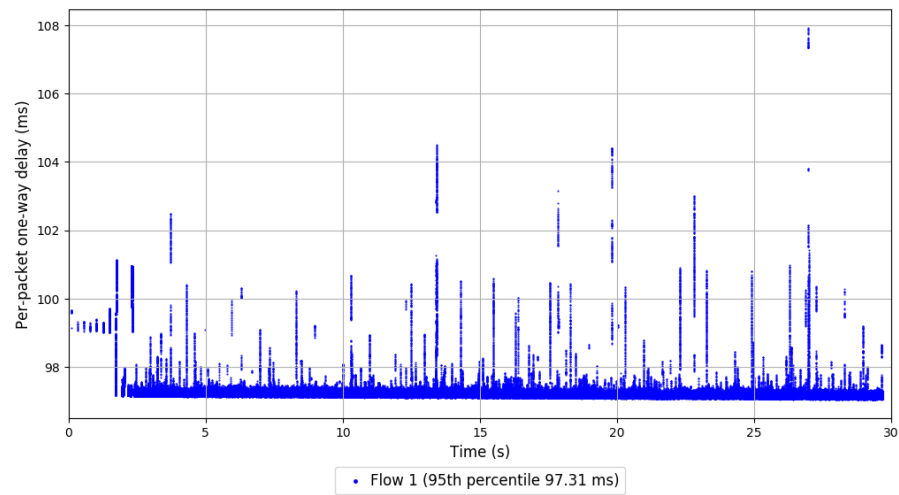
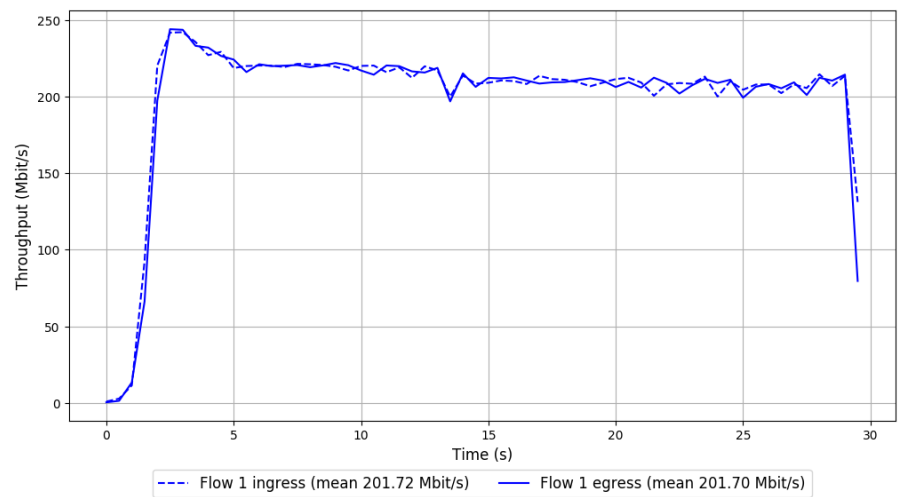
-- Flow 1:

Average throughput: 201.70 Mbit/s

95th percentile per-packet one-way delay: 97.313 ms

Loss rate: 0.76%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-12 21:40:16

End at: 2018-03-12 21:40:46

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.41 Mbit/s

95th percentile per-packet one-way delay: 102.940 ms

Loss rate: 0.75%

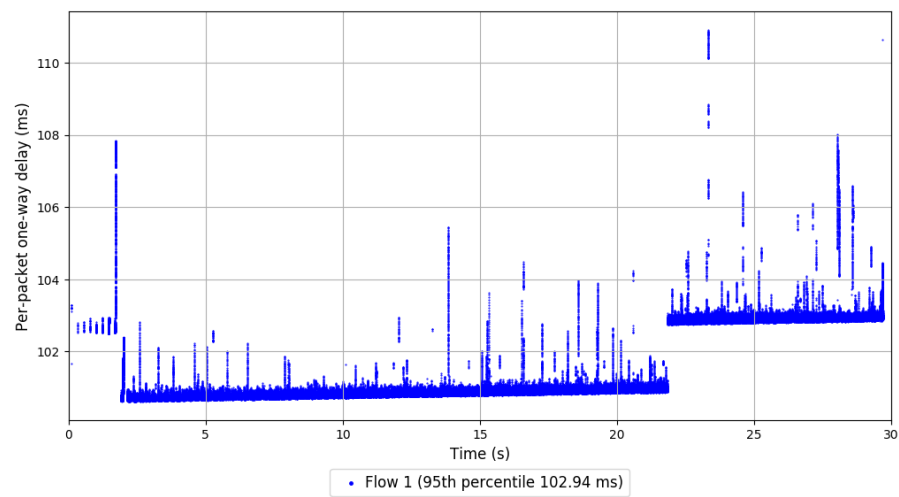
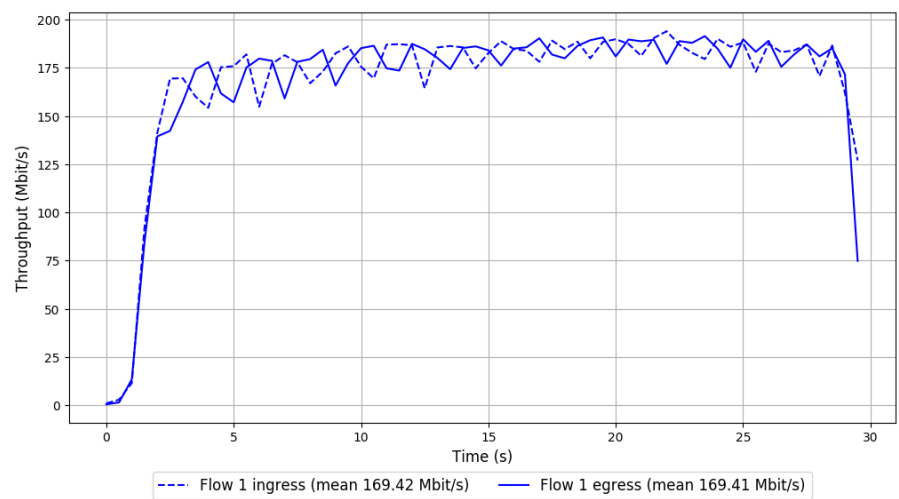
-- Flow 1:

Average throughput: 169.41 Mbit/s

95th percentile per-packet one-way delay: 102.940 ms

Loss rate: 0.75%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-12 21:56:11

End at: 2018-03-12 21:56:41

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.70 Mbit/s

95th percentile per-packet one-way delay: 106.595 ms

Loss rate: 0.76%

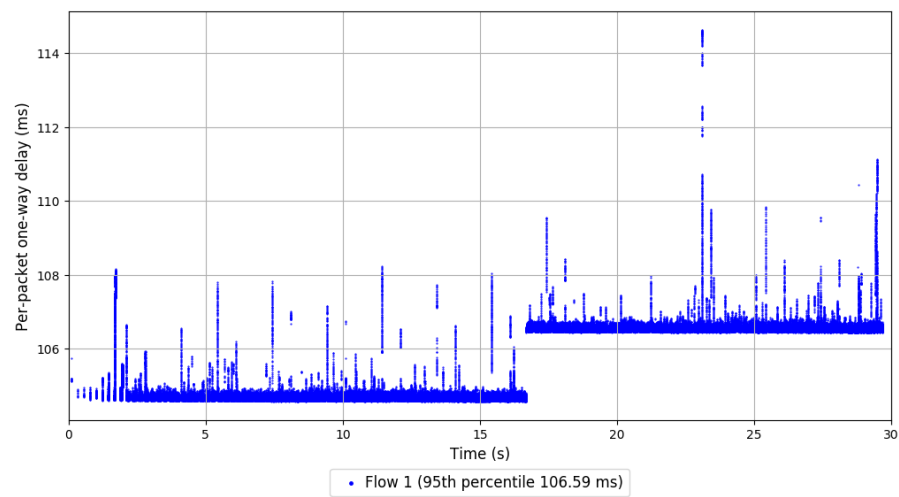
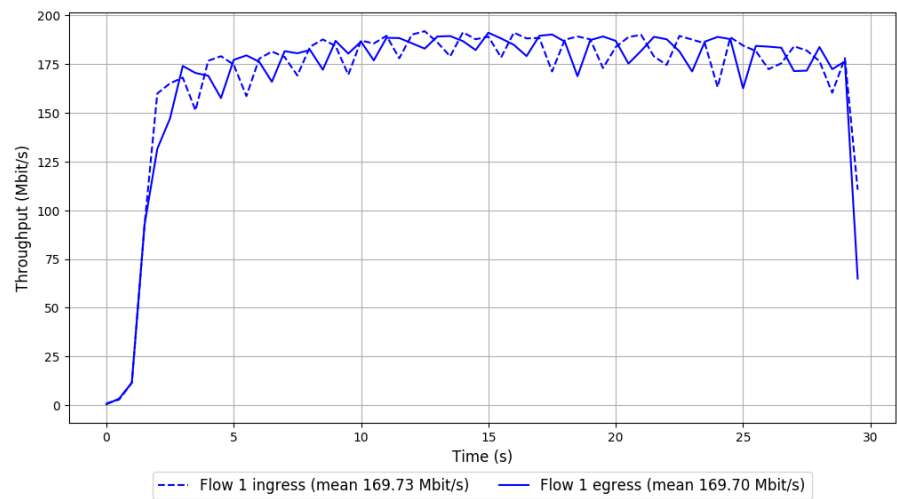
-- Flow 1:

Average throughput: 169.70 Mbit/s

95th percentile per-packet one-way delay: 106.595 ms

Loss rate: 0.76%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-12 22:11:42

End at: 2018-03-12 22:12:12

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.68 Mbit/s

95th percentile per-packet one-way delay: 106.885 ms

Loss rate: 0.76%

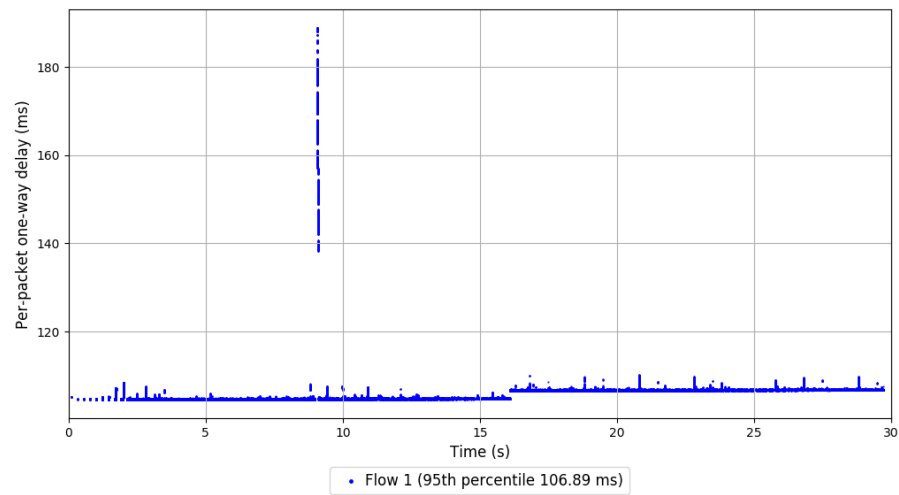
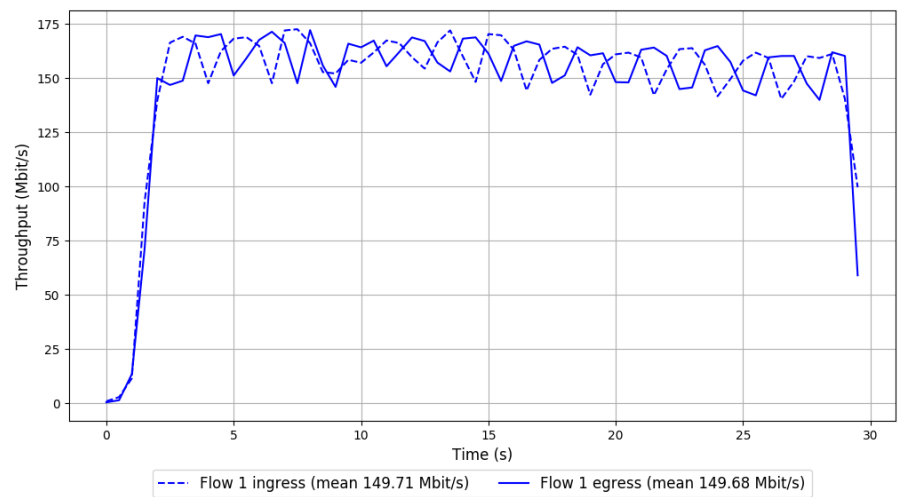
-- Flow 1:

Average throughput: 149.68 Mbit/s

95th percentile per-packet one-way delay: 106.885 ms

Loss rate: 0.76%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-12 22:27:10

End at: 2018-03-12 22:27:40

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.29 Mbit/s

95th percentile per-packet one-way delay: 110.624 ms

Loss rate: 0.79%

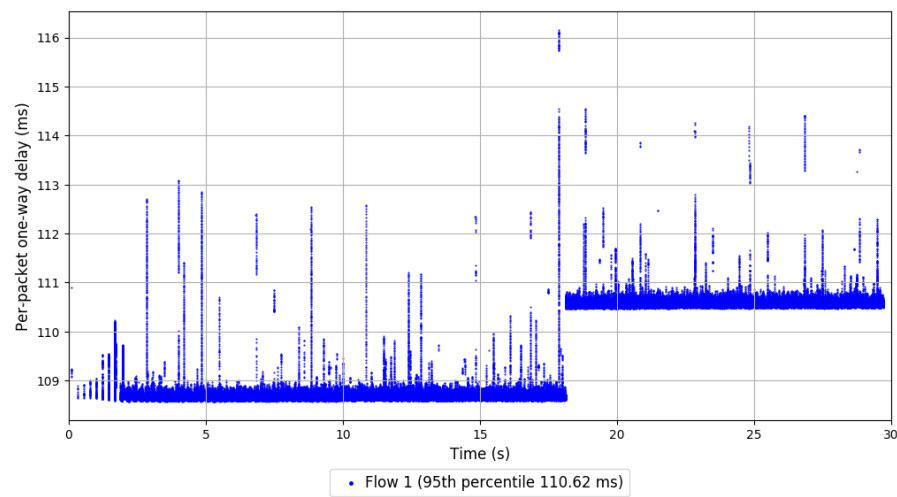
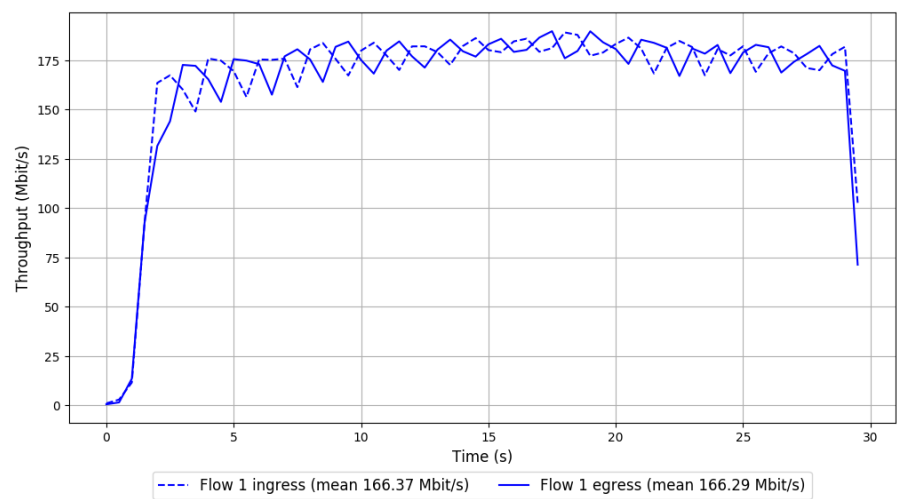
-- Flow 1:

Average throughput: 166.29 Mbit/s

95th percentile per-packet one-way delay: 110.624 ms

Loss rate: 0.79%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-12 20:04:29

End at: 2018-03-12 20:04:59

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.14 Mbit/s

95th percentile per-packet one-way delay: 107.370 ms

Loss rate: 1.09%

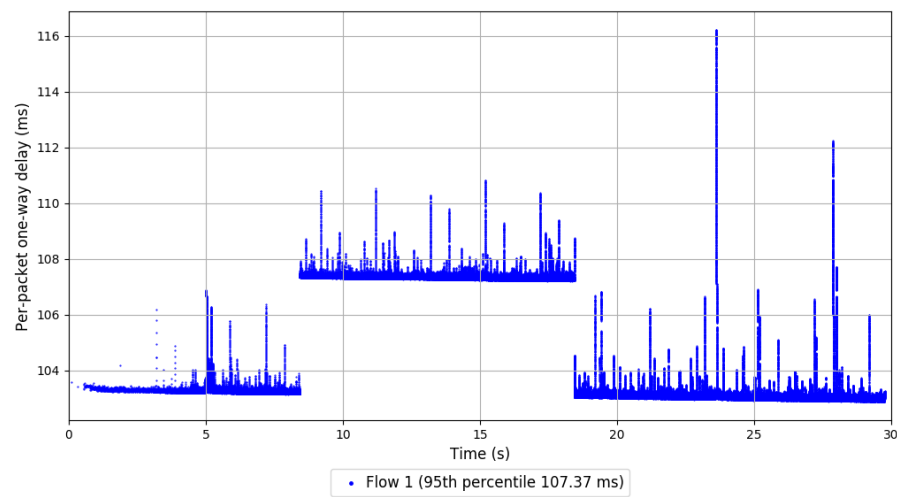
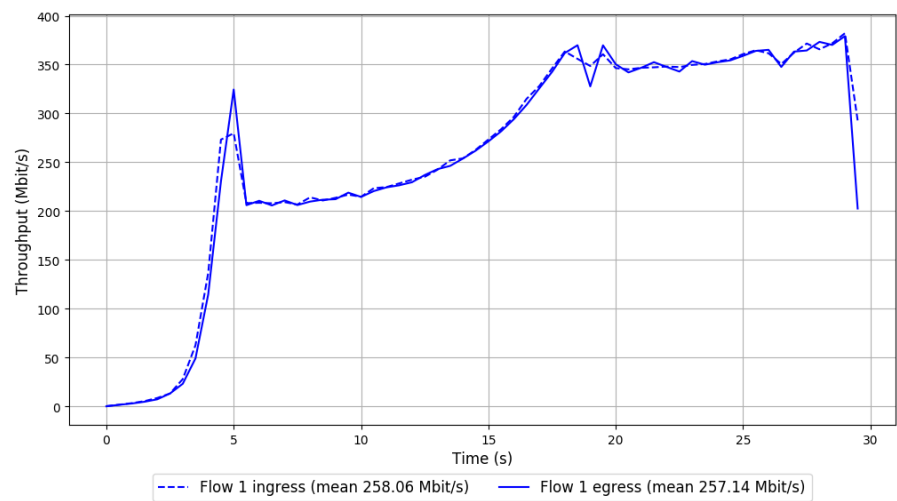
-- Flow 1:

Average throughput: 257.14 Mbit/s

95th percentile per-packet one-way delay: 107.370 ms

Loss rate: 1.09%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-12 20:19:49

End at: 2018-03-12 20:20:19

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.03 Mbit/s

95th percentile per-packet one-way delay: 99.147 ms

Loss rate: 0.77%

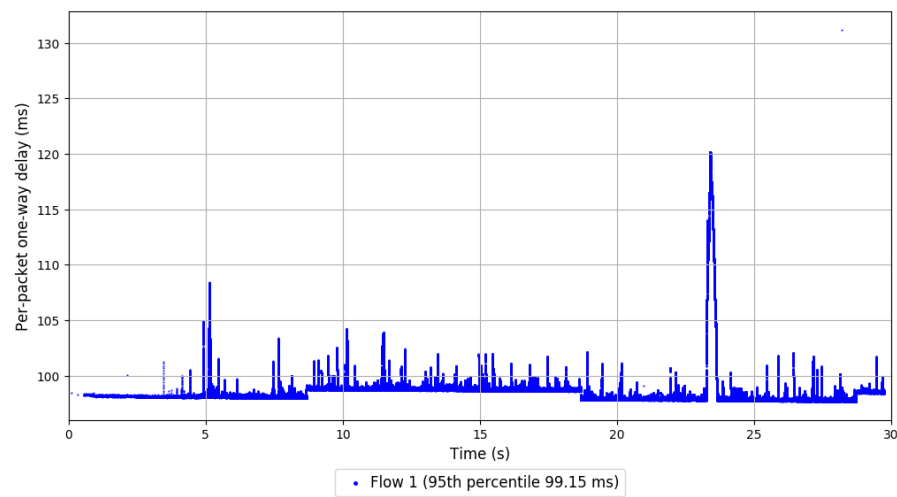
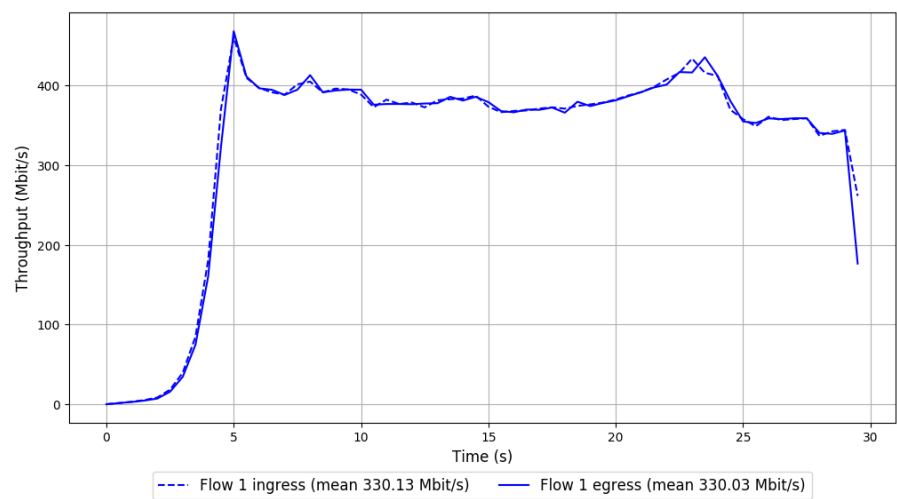
-- Flow 1:

Average throughput: 330.03 Mbit/s

95th percentile per-packet one-way delay: 99.147 ms

Loss rate: 0.77%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-12 20:35:18

End at: 2018-03-12 20:35:48

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.82 Mbit/s

95th percentile per-packet one-way delay: 95.071 ms

Loss rate: 1.07%

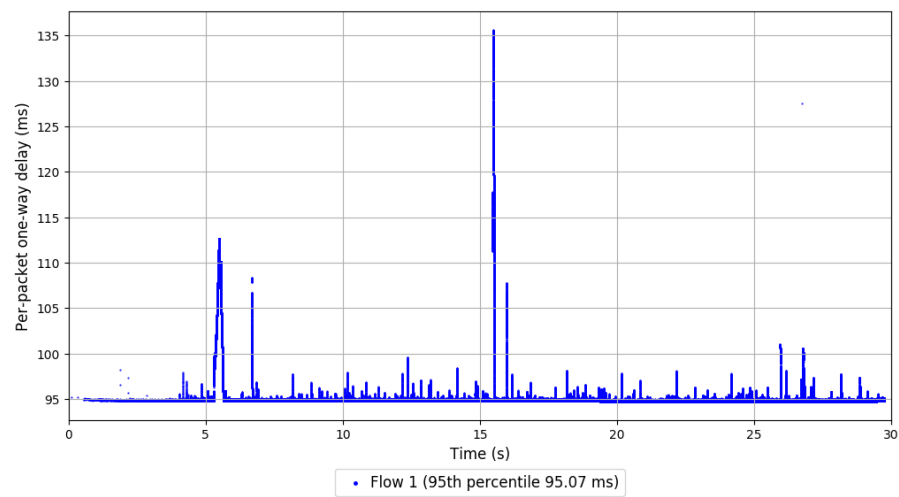
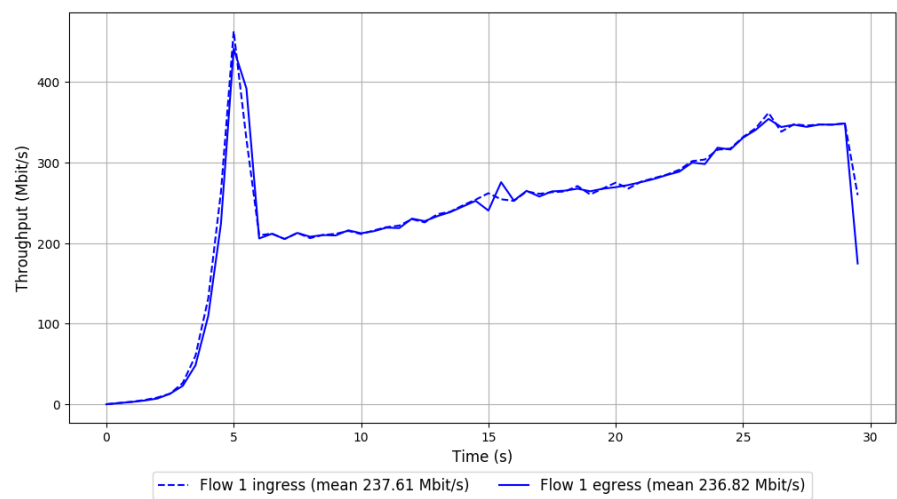
-- Flow 1:

Average throughput: 236.82 Mbit/s

95th percentile per-packet one-way delay: 95.071 ms

Loss rate: 1.07%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-12 20:50:41

End at: 2018-03-12 20:51:11

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.84 Mbit/s

95th percentile per-packet one-way delay: 88.988 ms

Loss rate: 1.10%

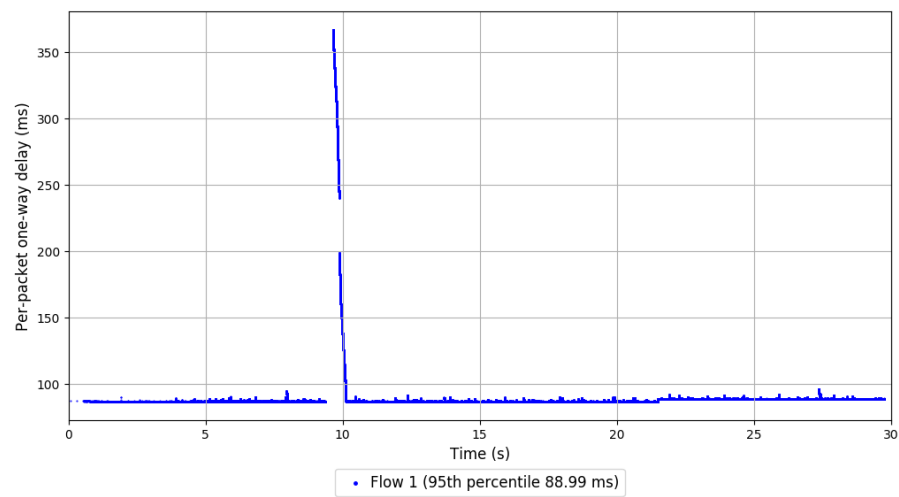
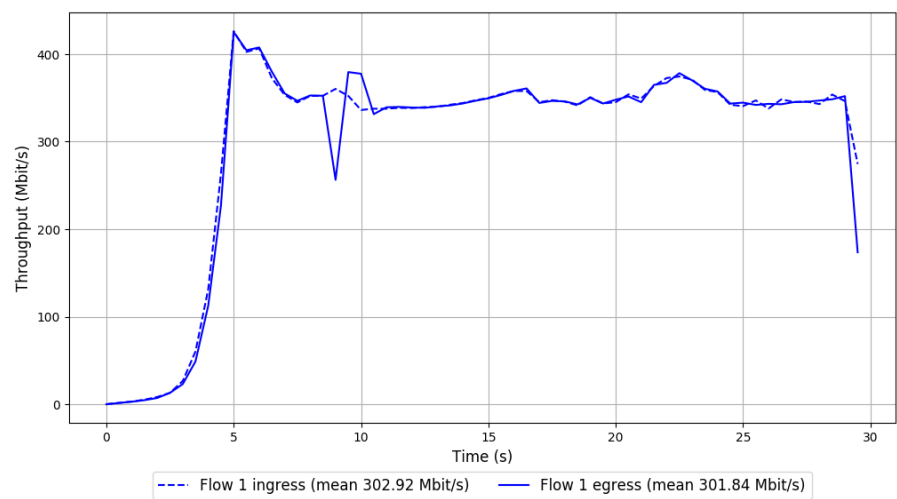
-- Flow 1:

Average throughput: 301.84 Mbit/s

95th percentile per-packet one-way delay: 88.988 ms

Loss rate: 1.10%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-12 21:06:05

End at: 2018-03-12 21:06:35

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.82 Mbit/s

95th percentile per-packet one-way delay: 95.722 ms

Loss rate: 1.29%

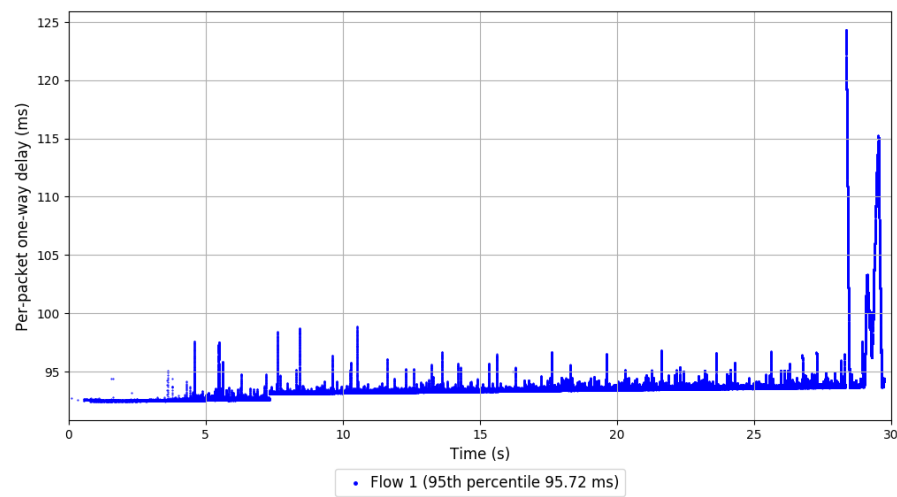
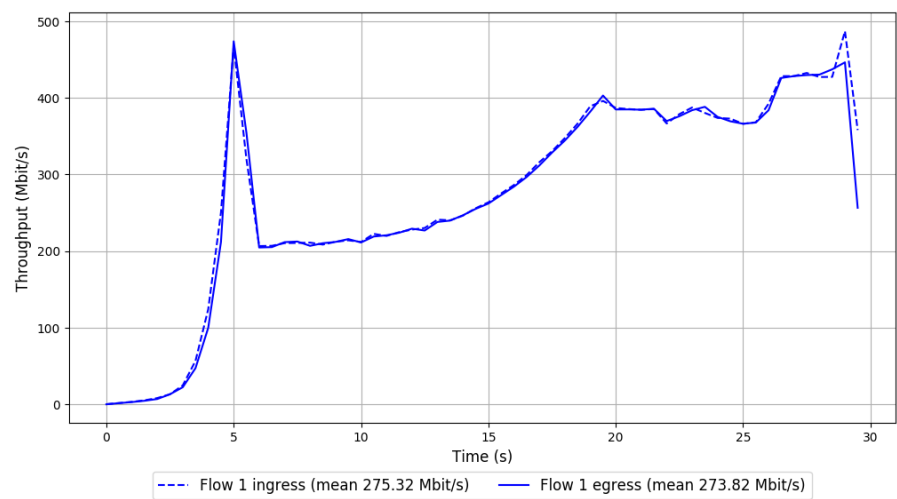
-- Flow 1:

Average throughput: 273.82 Mbit/s

95th percentile per-packet one-way delay: 95.722 ms

Loss rate: 1.29%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-12 21:21:40

End at: 2018-03-12 21:22:10

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.38 Mbit/s

95th percentile per-packet one-way delay: 101.030 ms

Loss rate: 1.91%

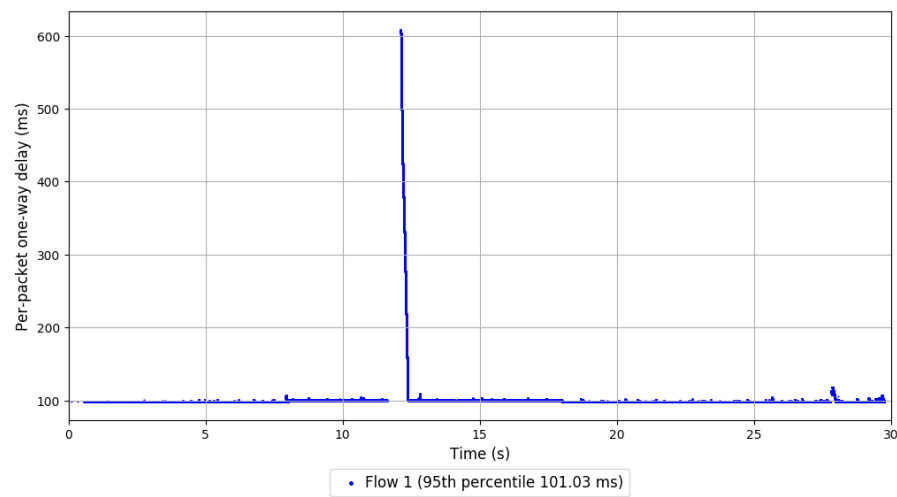
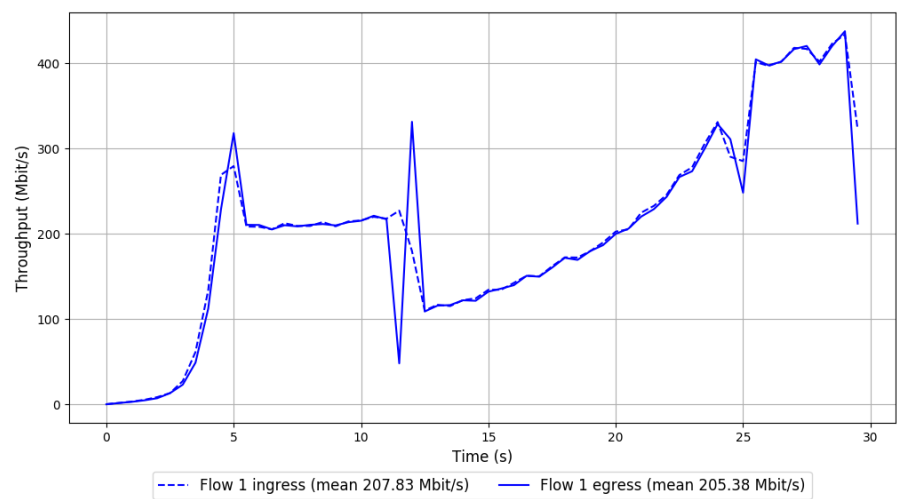
-- Flow 1:

Average throughput: 205.38 Mbit/s

95th percentile per-packet one-way delay: 101.030 ms

Loss rate: 1.91%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-12 21:37:18

End at: 2018-03-12 21:37:48

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.45 Mbit/s

95th percentile per-packet one-way delay: 99.097 ms

Loss rate: 0.90%

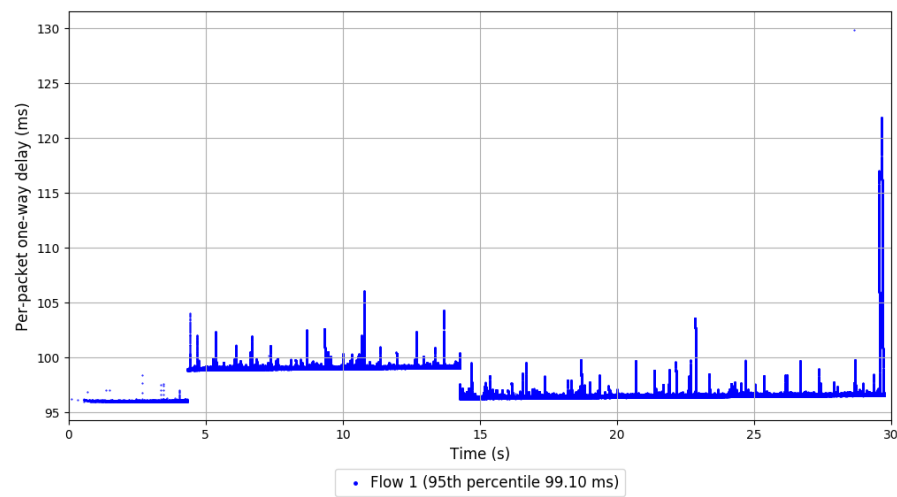
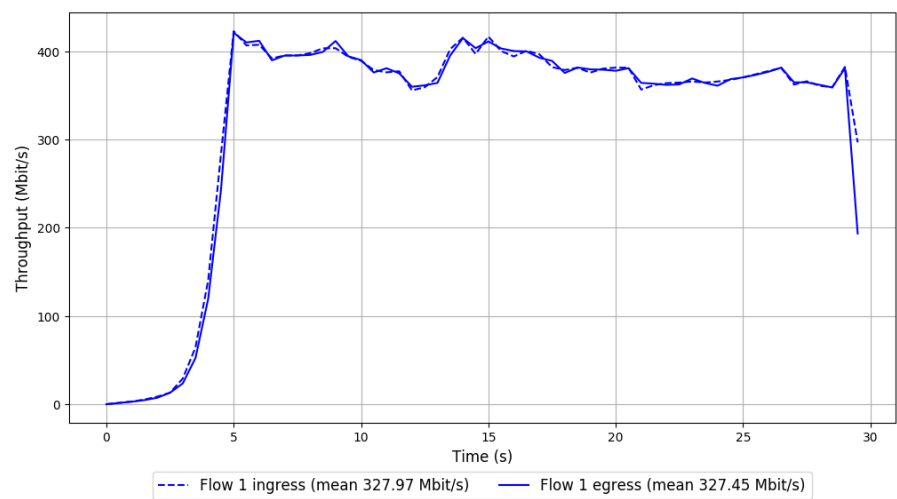
-- Flow 1:

Average throughput: 327.45 Mbit/s

95th percentile per-packet one-way delay: 99.097 ms

Loss rate: 0.90%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-12 21:53:13

End at: 2018-03-12 21:53:43

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.99 Mbit/s

95th percentile per-packet one-way delay: 108.477 ms

Loss rate: 0.87%

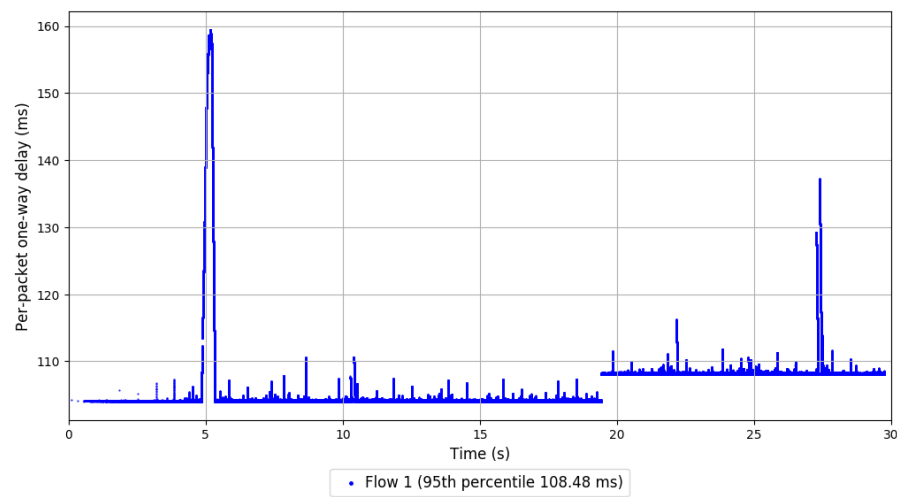
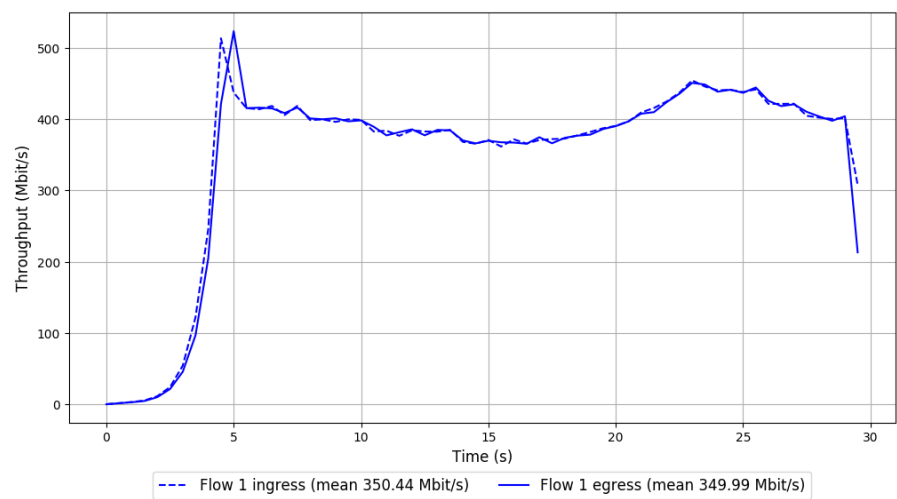
-- Flow 1:

Average throughput: 349.99 Mbit/s

95th percentile per-packet one-way delay: 108.477 ms

Loss rate: 0.87%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-12 22:08:44

End at: 2018-03-12 22:09:14

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.91 Mbit/s

95th percentile per-packet one-way delay: 105.342 ms

Loss rate: 0.83%

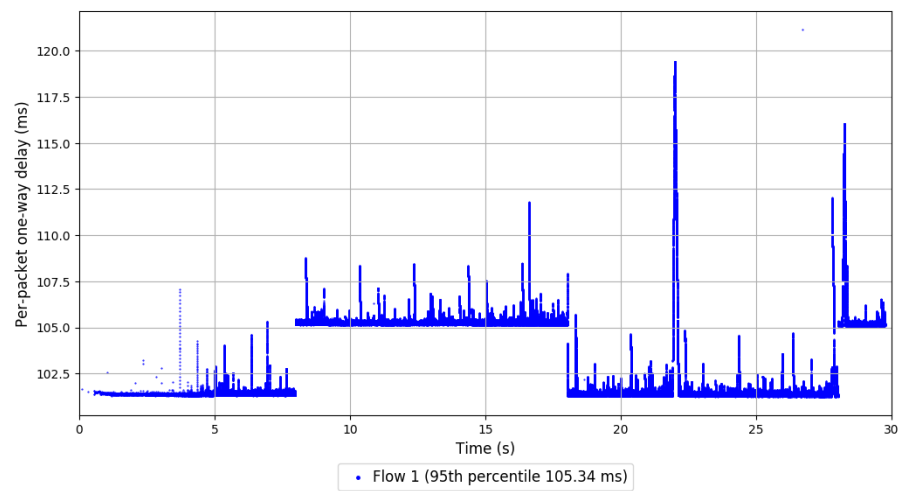
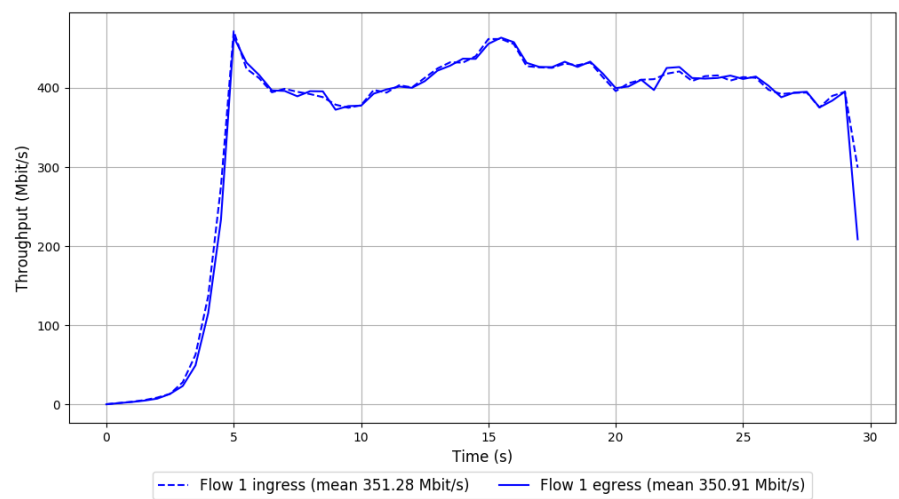
-- Flow 1:

Average throughput: 350.91 Mbit/s

95th percentile per-packet one-way delay: 105.342 ms

Loss rate: 0.83%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-12 22:24:22

End at: 2018-03-12 22:24:53

Below is generated by plot.py at 2018-03-13 02:09:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.37 Mbit/s

95th percentile per-packet one-way delay: 107.168 ms

Loss rate: 1.23%

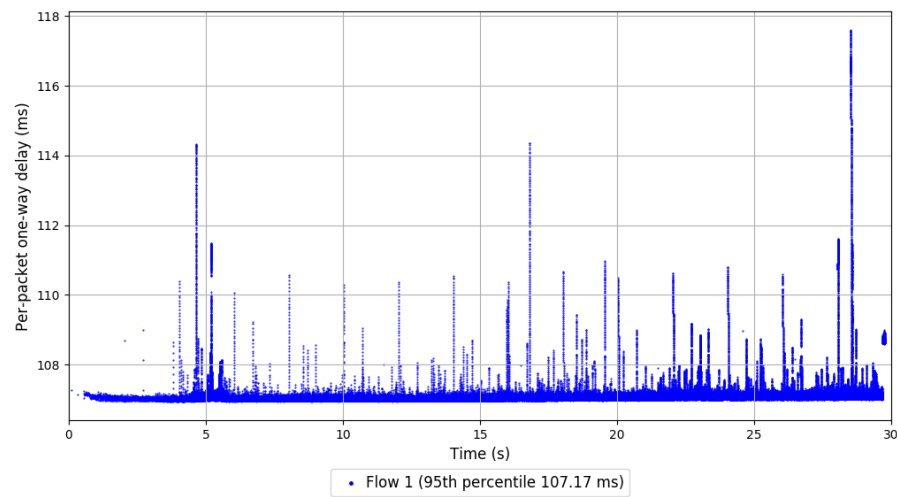
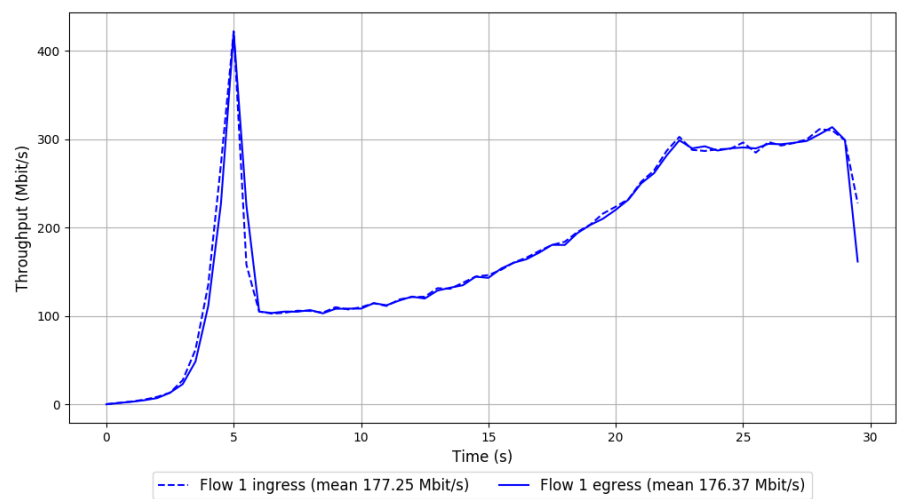
-- Flow 1:

Average throughput: 176.37 Mbit/s

95th percentile per-packet one-way delay: 107.168 ms

Loss rate: 1.23%

Run 10: Report of Vivace-latency — Data Link

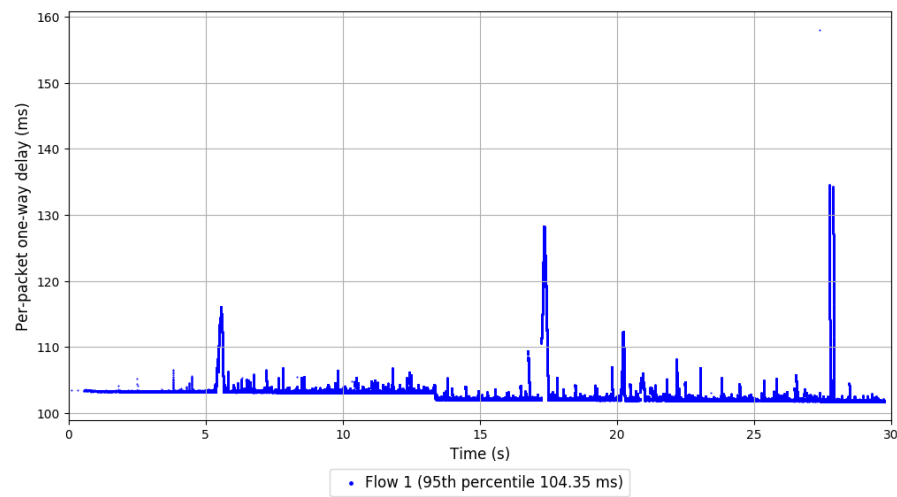
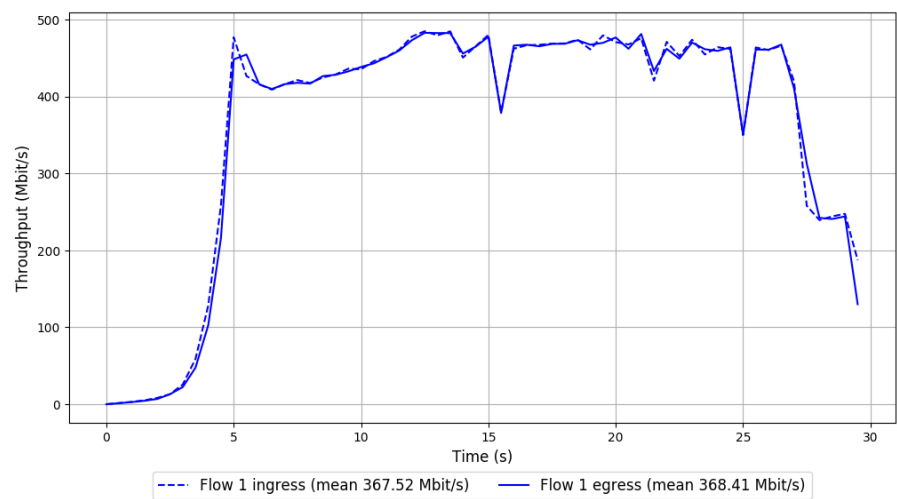


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-12 20:05:29
End at: 2018-03-12 20:05:59

# Below is generated by plot.py at 2018-03-13 02:10:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 368.41 Mbit/s
95th percentile per-packet one-way delay: 104.349 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 368.41 Mbit/s
95th percentile per-packet one-way delay: 104.349 ms
Loss rate: 0.50%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-12 20:20:54

End at: 2018-03-12 20:21:24

Below is generated by plot.py at 2018-03-13 02:10:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.44 Mbit/s

95th percentile per-packet one-way delay: 113.227 ms

Loss rate: 0.96%

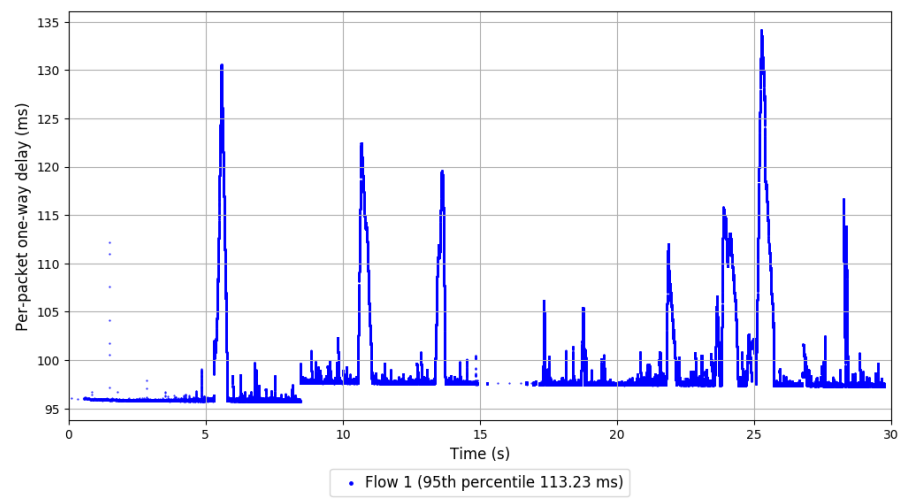
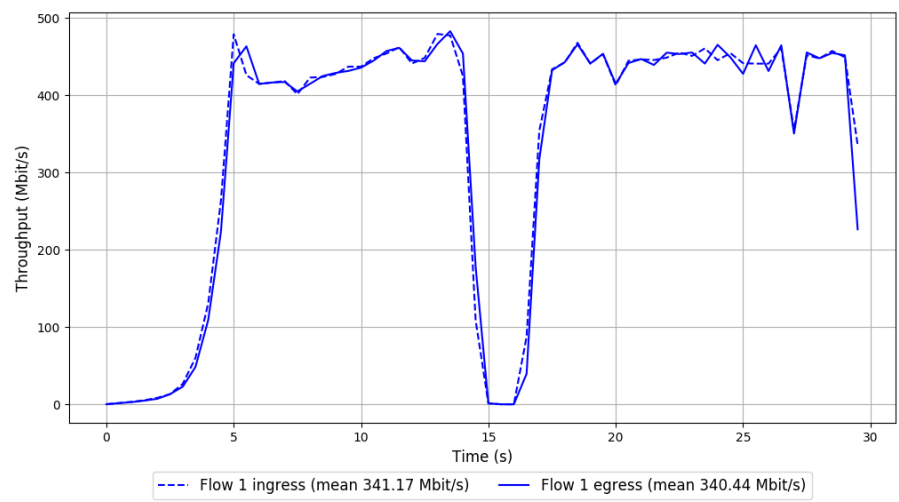
-- Flow 1:

Average throughput: 340.44 Mbit/s

95th percentile per-packet one-way delay: 113.227 ms

Loss rate: 0.96%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-12 20:36:17

End at: 2018-03-12 20:36:47

Below is generated by plot.py at 2018-03-13 02:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.80 Mbit/s

95th percentile per-packet one-way delay: 106.893 ms

Loss rate: 0.91%

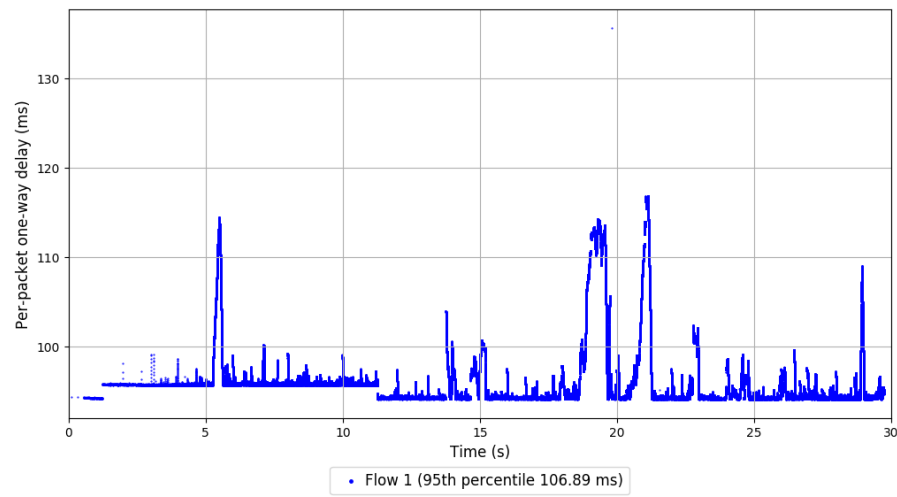
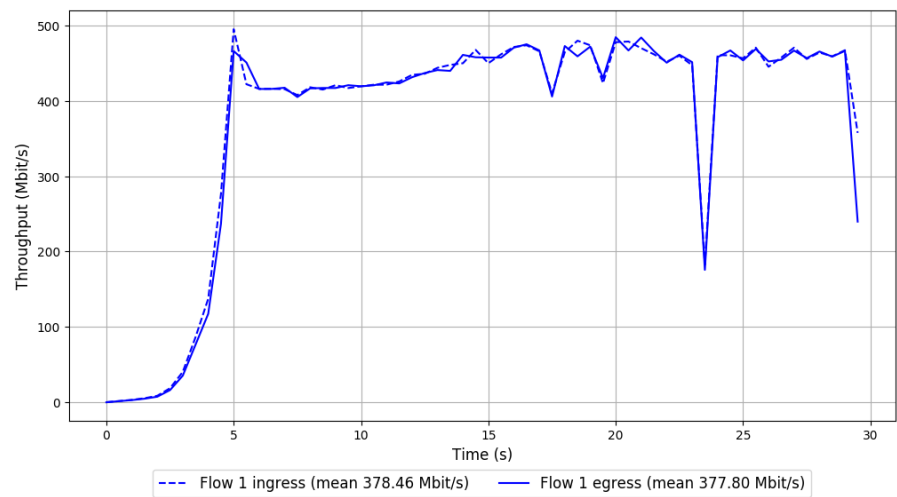
-- Flow 1:

Average throughput: 377.80 Mbit/s

95th percentile per-packet one-way delay: 106.893 ms

Loss rate: 0.91%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-12 20:51:43

End at: 2018-03-12 20:52:13

Below is generated by plot.py at 2018-03-13 02:13:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.28 Mbit/s

95th percentile per-packet one-way delay: 94.496 ms

Loss rate: 0.71%

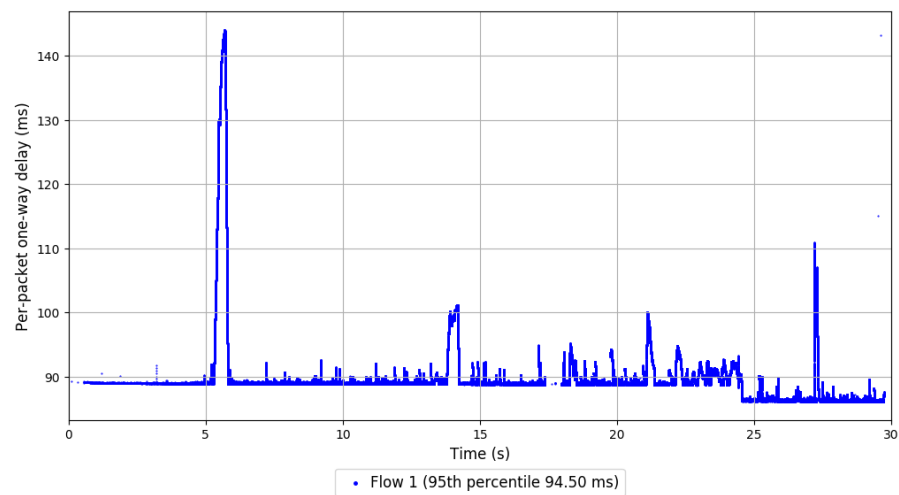
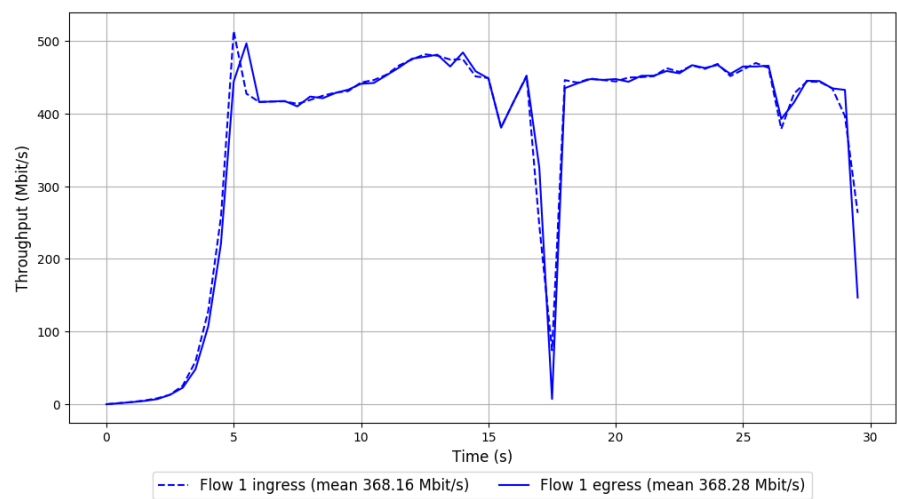
-- Flow 1:

Average throughput: 368.28 Mbit/s

95th percentile per-packet one-way delay: 94.496 ms

Loss rate: 0.71%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-12 21:07:06

End at: 2018-03-12 21:07:36

Below is generated by plot.py at 2018-03-13 02:15:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.44 Mbit/s

95th percentile per-packet one-way delay: 130.891 ms

Loss rate: 0.91%

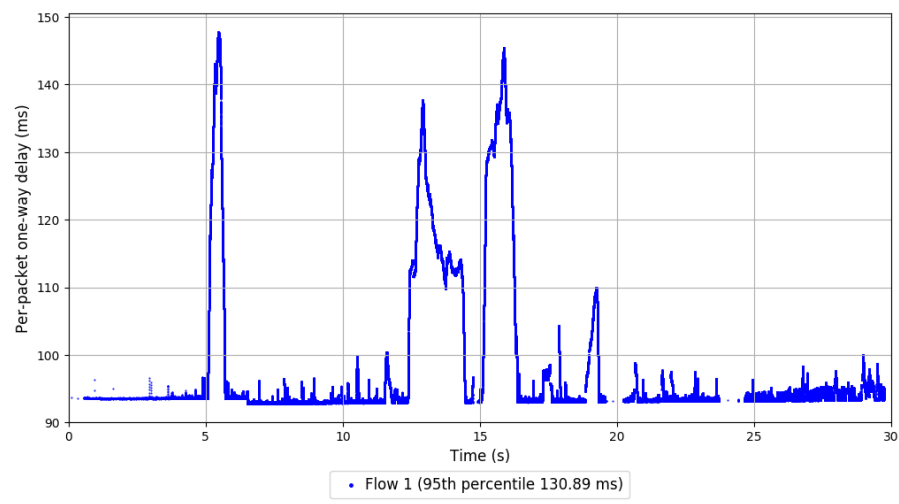
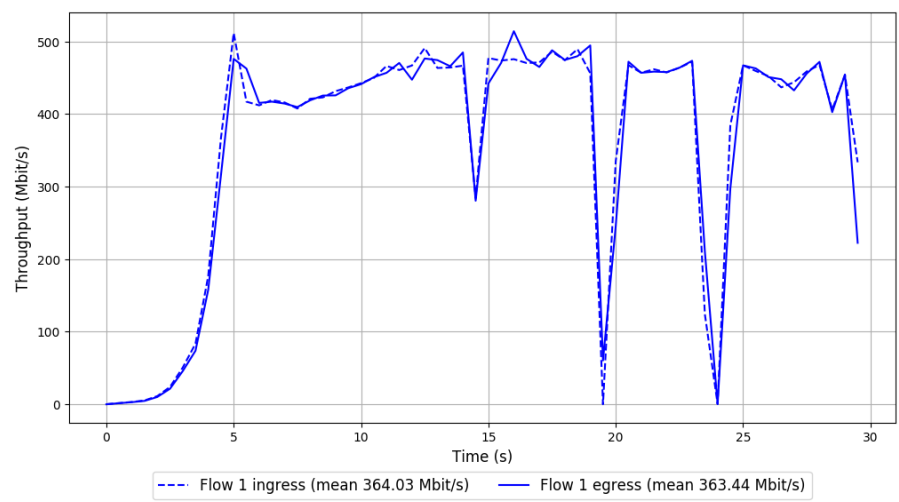
-- Flow 1:

Average throughput: 363.44 Mbit/s

95th percentile per-packet one-way delay: 130.891 ms

Loss rate: 0.91%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-12 21:22:36

End at: 2018-03-12 21:23:06

Below is generated by plot.py at 2018-03-13 02:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.66 Mbit/s

95th percentile per-packet one-way delay: 104.309 ms

Loss rate: 0.97%

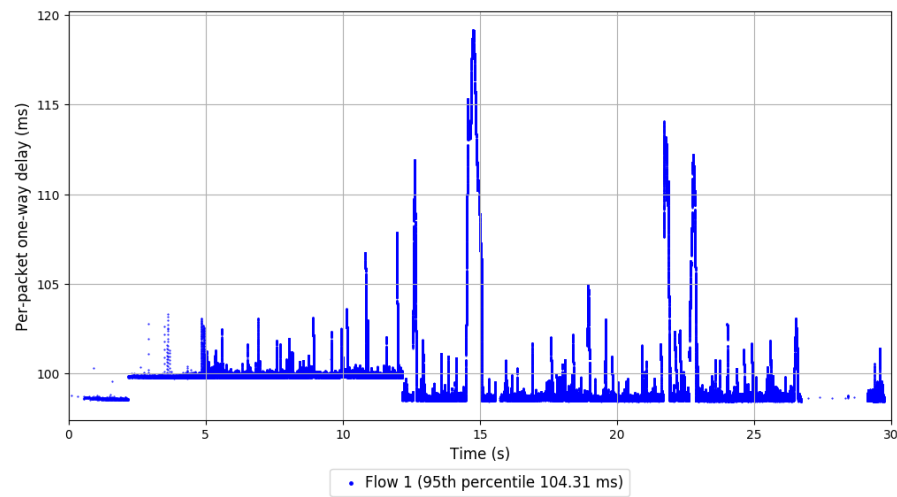
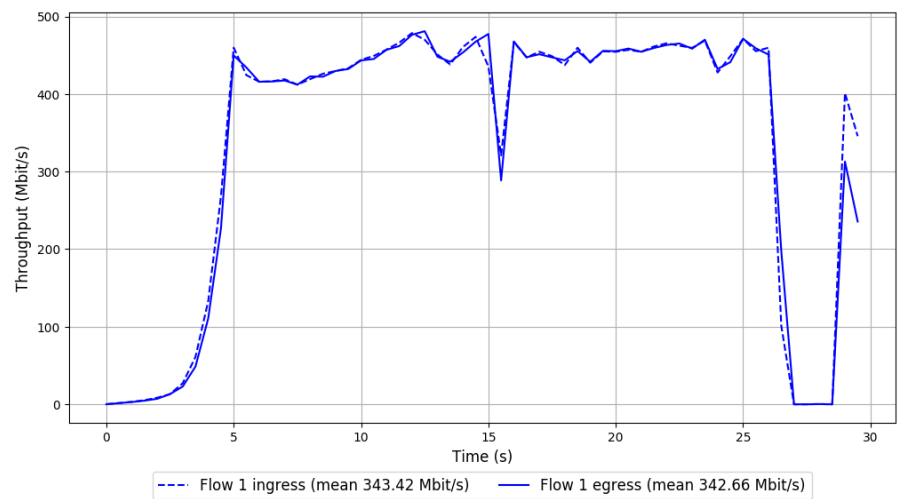
-- Flow 1:

Average throughput: 342.66 Mbit/s

95th percentile per-packet one-way delay: 104.309 ms

Loss rate: 0.97%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-12 21:38:22

End at: 2018-03-12 21:38:52

Below is generated by plot.py at 2018-03-13 02:16:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.06 Mbit/s

95th percentile per-packet one-way delay: 165.929 ms

Loss rate: 0.97%

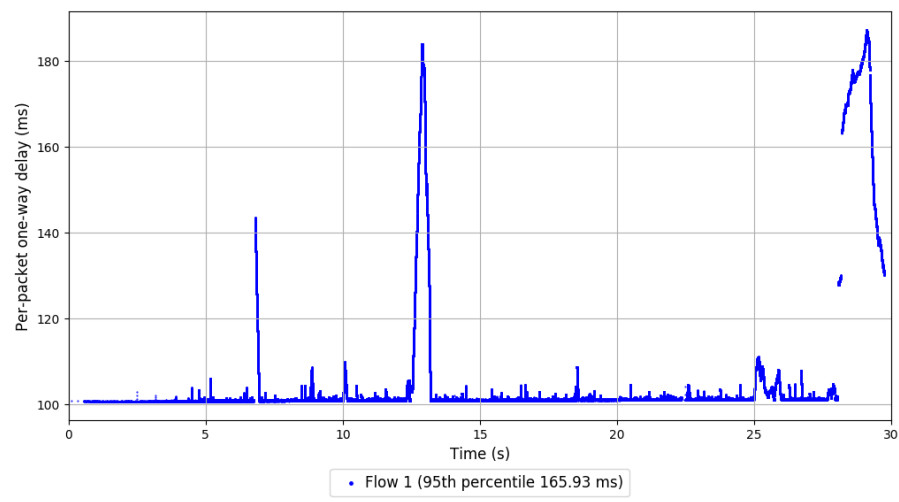
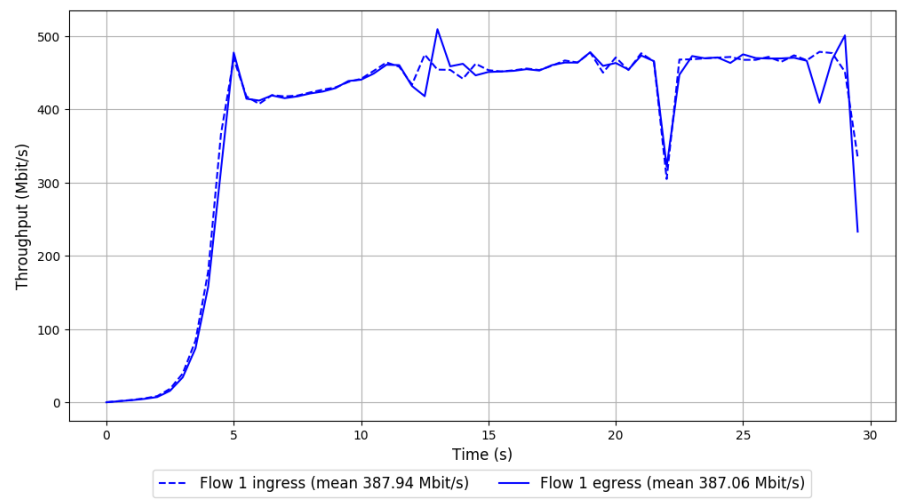
-- Flow 1:

Average throughput: 387.06 Mbit/s

95th percentile per-packet one-way delay: 165.929 ms

Loss rate: 0.97%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-12 21:54:18

End at: 2018-03-12 21:54:49

Below is generated by plot.py at 2018-03-13 02:16:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.99 Mbit/s

95th percentile per-packet one-way delay: 114.691 ms

Loss rate: 1.07%

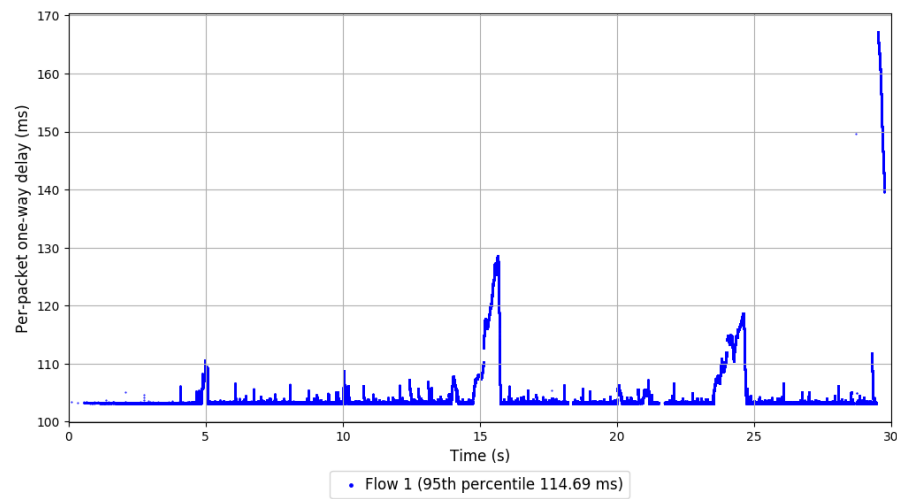
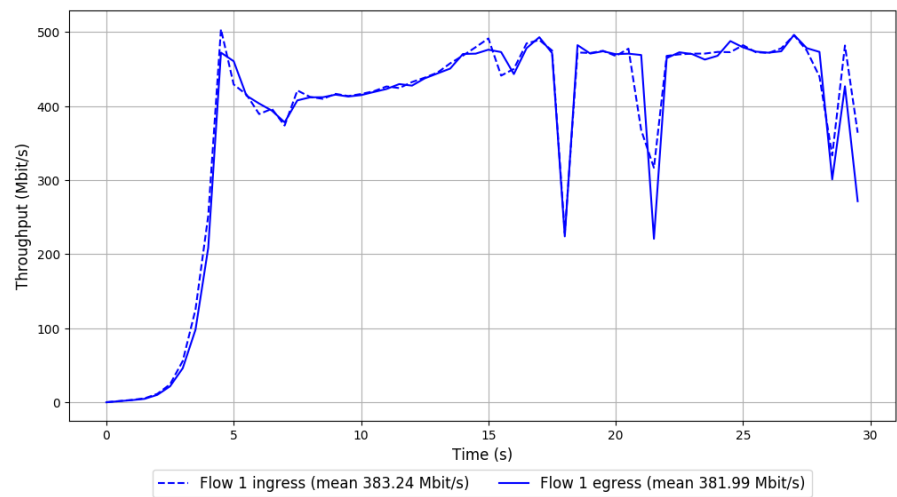
-- Flow 1:

Average throughput: 381.99 Mbit/s

95th percentile per-packet one-way delay: 114.691 ms

Loss rate: 1.07%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-12 22:09:50

End at: 2018-03-12 22:10:20

Below is generated by plot.py at 2018-03-13 02:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.86 Mbit/s

95th percentile per-packet one-way delay: 106.075 ms

Loss rate: 0.47%

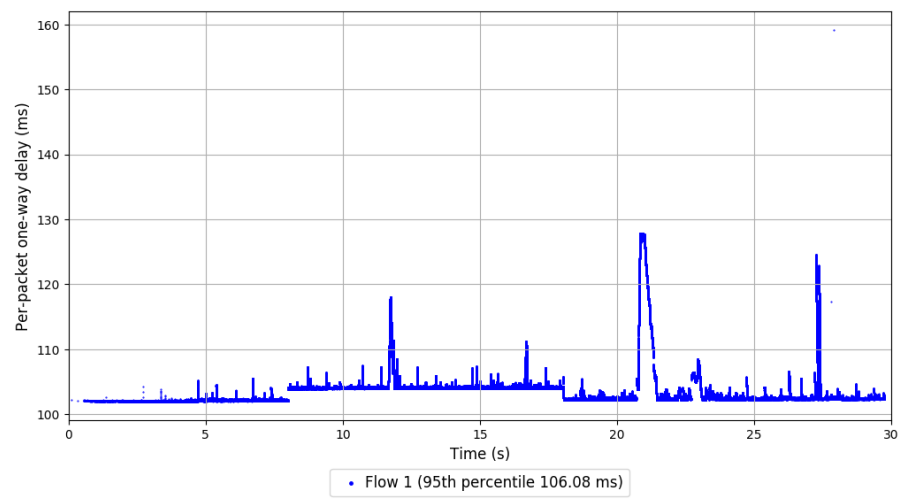
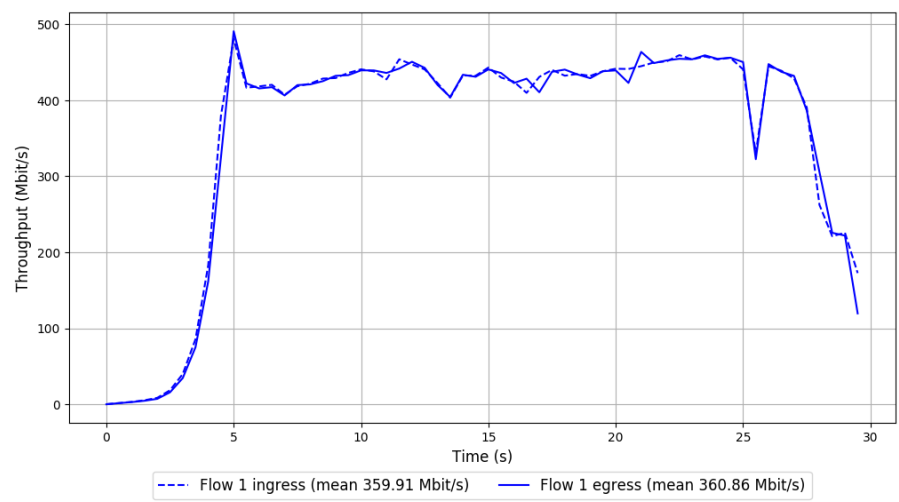
-- Flow 1:

Average throughput: 360.86 Mbit/s

95th percentile per-packet one-way delay: 106.075 ms

Loss rate: 0.47%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-12 22:25:16

End at: 2018-03-12 22:25:46

Below is generated by plot.py at 2018-03-13 02:16:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.76 Mbit/s

95th percentile per-packet one-way delay: 112.977 ms

Loss rate: 0.90%

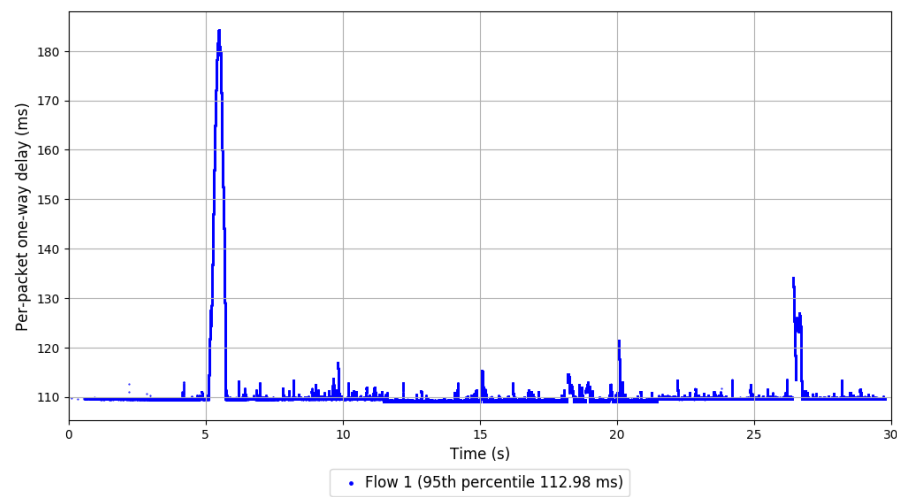
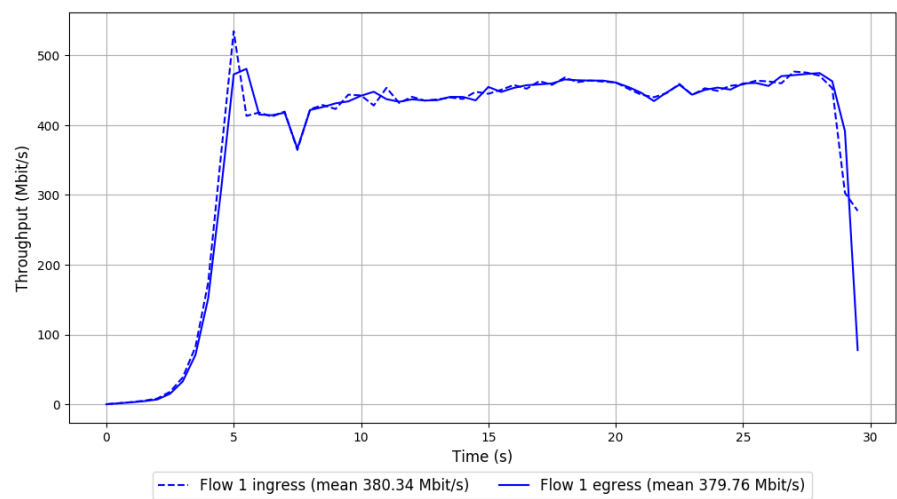
-- Flow 1:

Average throughput: 379.76 Mbit/s

95th percentile per-packet one-way delay: 112.977 ms

Loss rate: 0.90%

Run 10: Report of Vivace-loss — Data Link

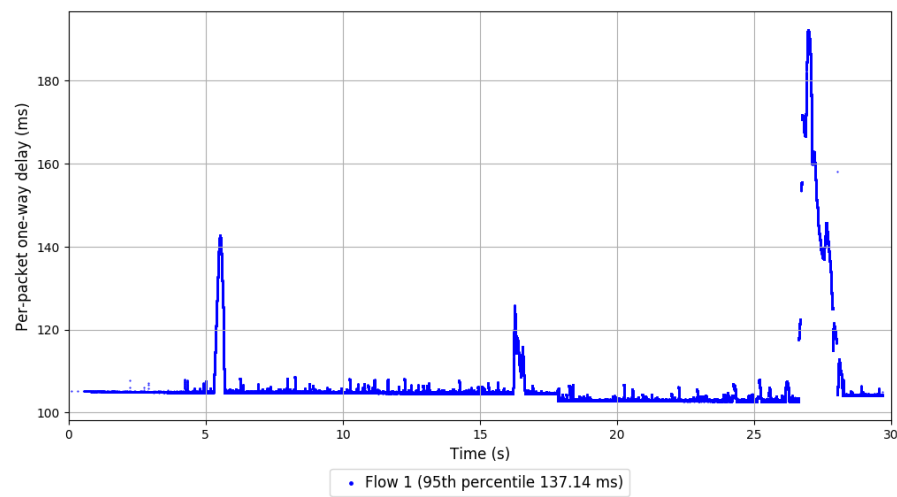
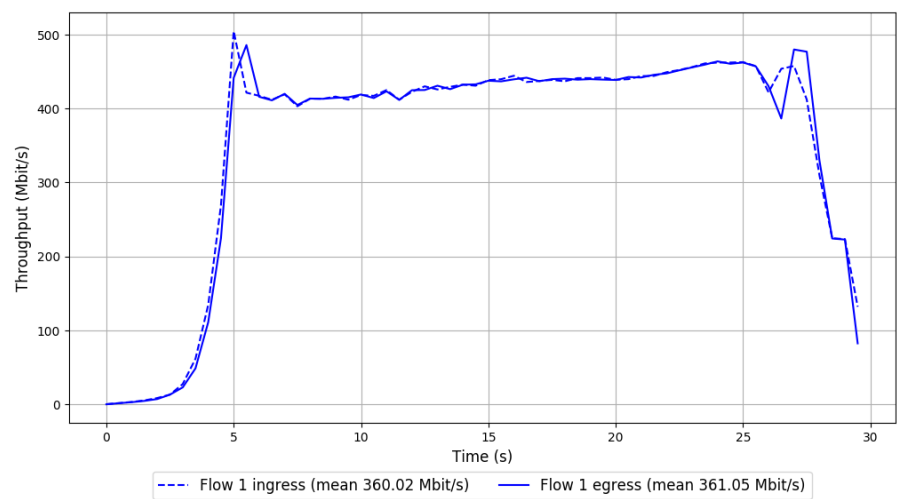


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-12 19:59:34
End at: 2018-03-12 20:00:04

# Below is generated by plot.py at 2018-03-13 02:20:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.05 Mbit/s
95th percentile per-packet one-way delay: 137.140 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 361.05 Mbit/s
95th percentile per-packet one-way delay: 137.140 ms
Loss rate: 0.46%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-12 20:14:49

End at: 2018-03-12 20:15:19

Below is generated by plot.py at 2018-03-13 02:20:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.40 Mbit/s

95th percentile per-packet one-way delay: 103.726 ms

Loss rate: 0.89%

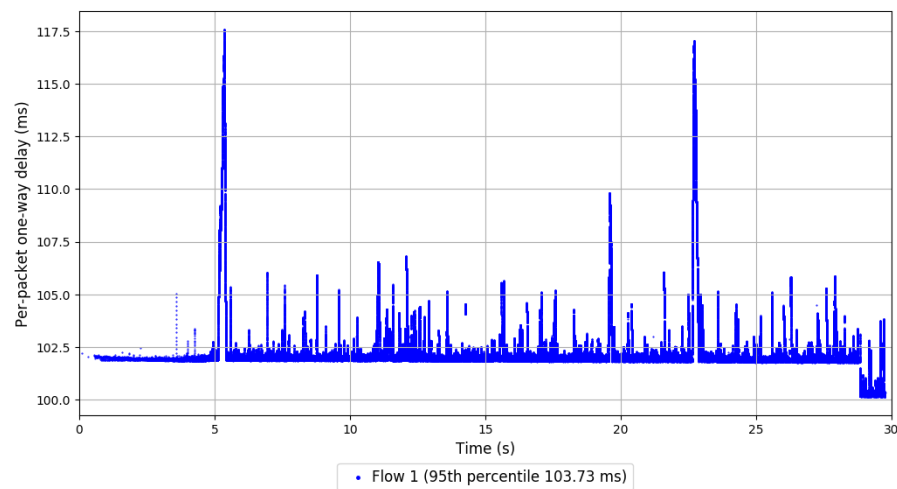
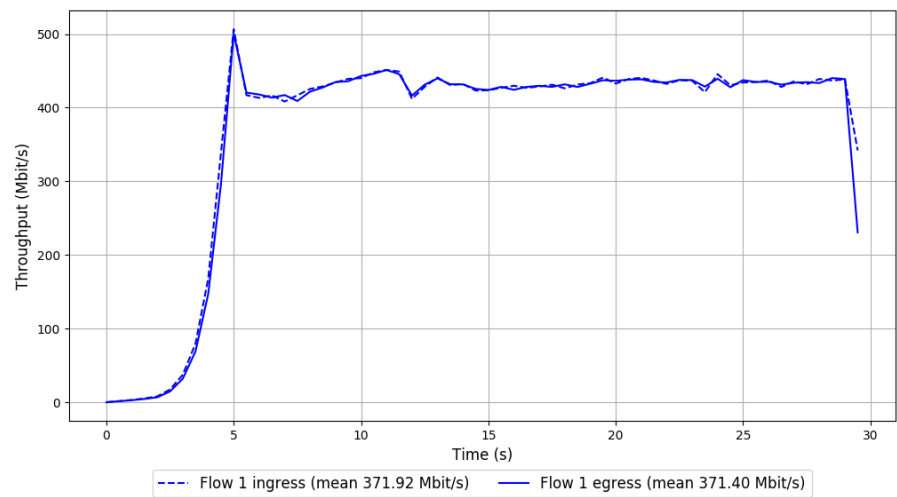
-- Flow 1:

Average throughput: 371.40 Mbit/s

95th percentile per-packet one-way delay: 103.726 ms

Loss rate: 0.89%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-12 20:30:11

End at: 2018-03-12 20:30:41

Below is generated by plot.py at 2018-03-13 02:21:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.94 Mbit/s

95th percentile per-packet one-way delay: 96.189 ms

Loss rate: 1.22%

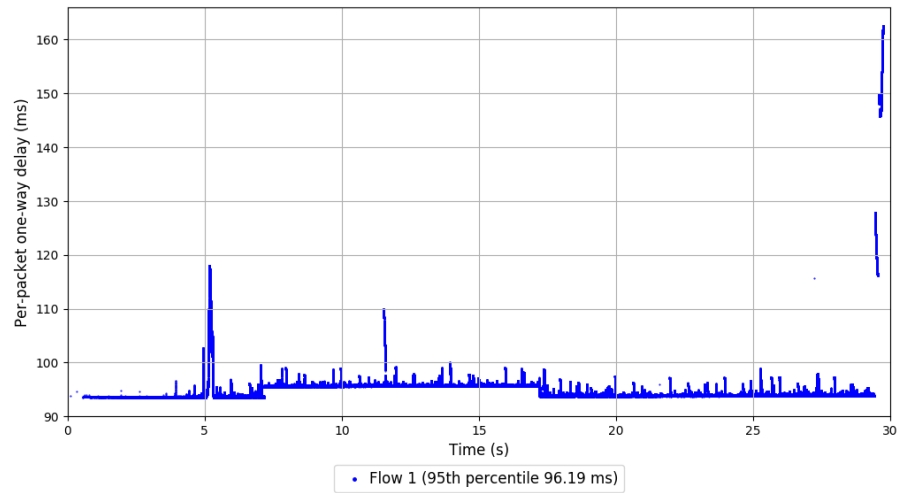
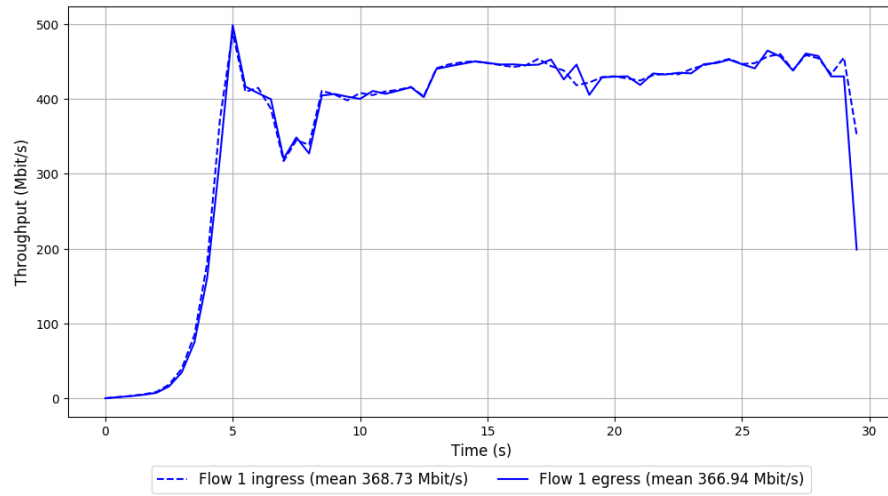
-- Flow 1:

Average throughput: 366.94 Mbit/s

95th percentile per-packet one-way delay: 96.189 ms

Loss rate: 1.22%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-12 20:45:39

End at: 2018-03-12 20:46:09

Below is generated by plot.py at 2018-03-13 02:21:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.29 Mbit/s

95th percentile per-packet one-way delay: 94.557 ms

Loss rate: 0.88%

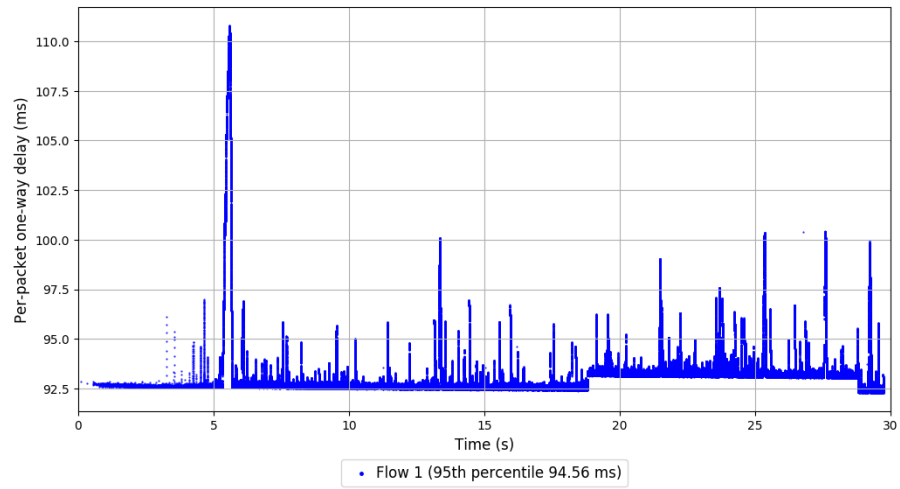
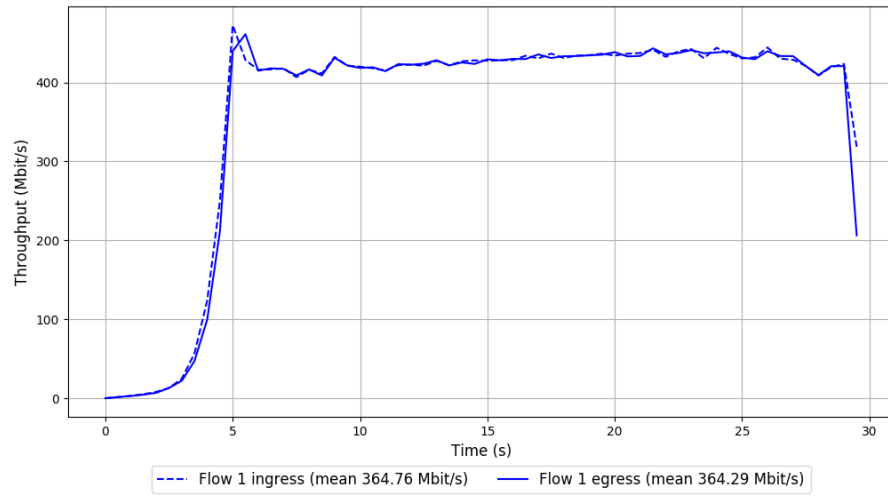
-- Flow 1:

Average throughput: 364.29 Mbit/s

95th percentile per-packet one-way delay: 94.557 ms

Loss rate: 0.88%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-12 21:01:06

End at: 2018-03-12 21:01:36

Below is generated by plot.py at 2018-03-13 02:22:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.20 Mbit/s

95th percentile per-packet one-way delay: 87.095 ms

Loss rate: 0.87%

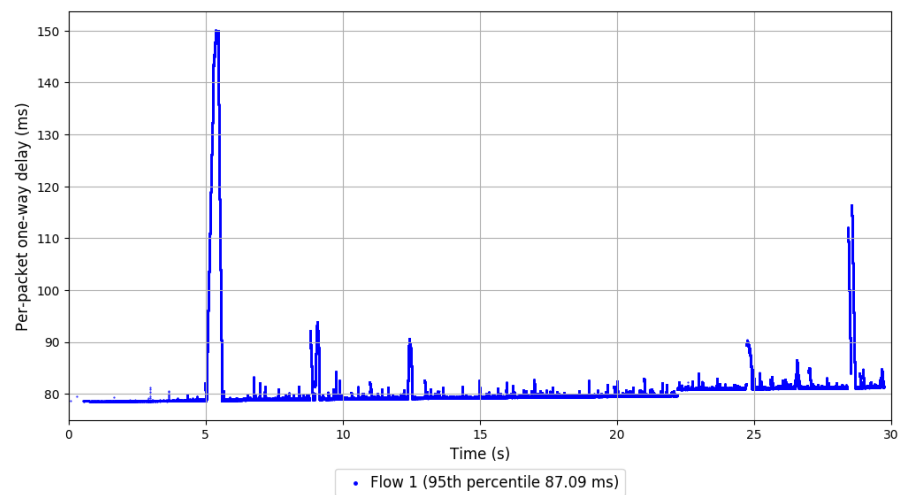
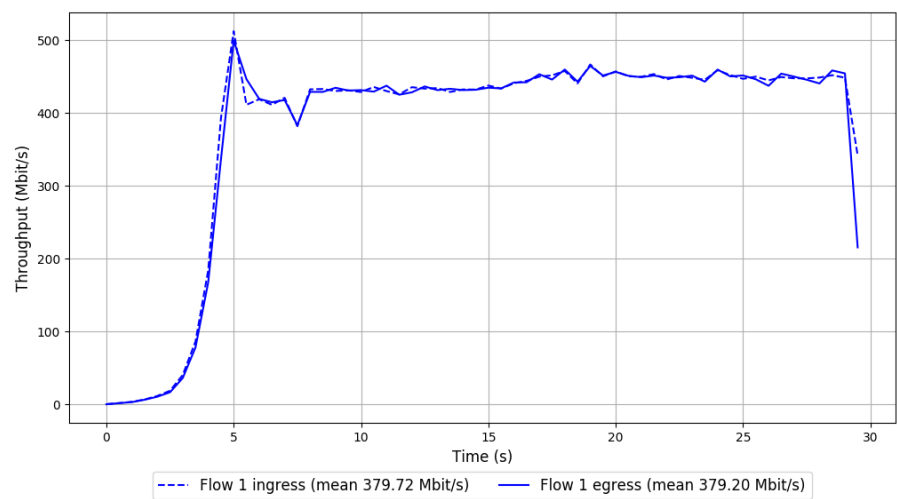
-- Flow 1:

Average throughput: 379.20 Mbit/s

95th percentile per-packet one-way delay: 87.095 ms

Loss rate: 0.87%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-12 21:16:25

End at: 2018-03-12 21:16:55

Below is generated by plot.py at 2018-03-13 02:22:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.65 Mbit/s

95th percentile per-packet one-way delay: 125.501 ms

Loss rate: 1.03%

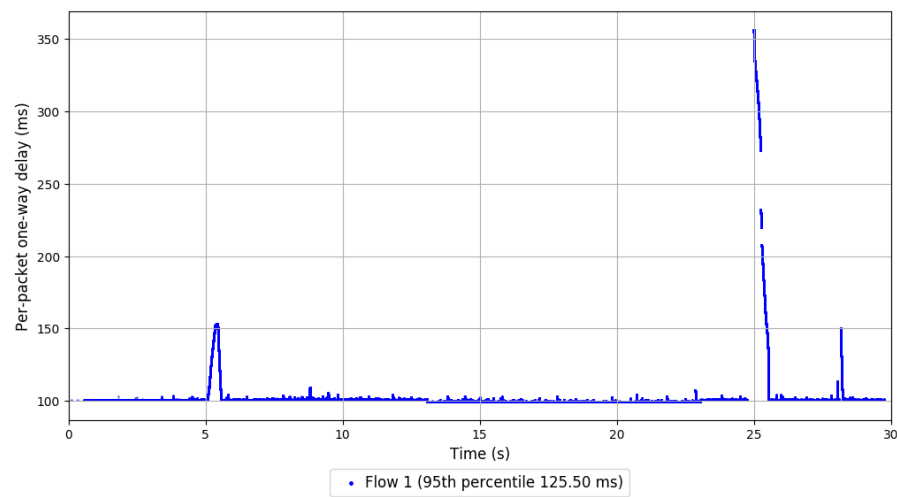
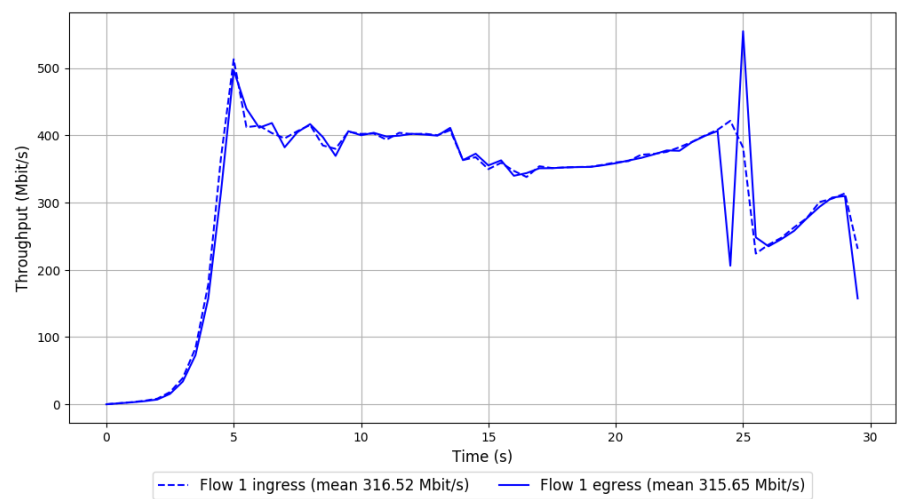
-- Flow 1:

Average throughput: 315.65 Mbit/s

95th percentile per-packet one-way delay: 125.501 ms

Loss rate: 1.03%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-12 21:31:58

End at: 2018-03-12 21:32:28

Below is generated by plot.py at 2018-03-13 02:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.62 Mbit/s

95th percentile per-packet one-way delay: 97.604 ms

Loss rate: 0.76%

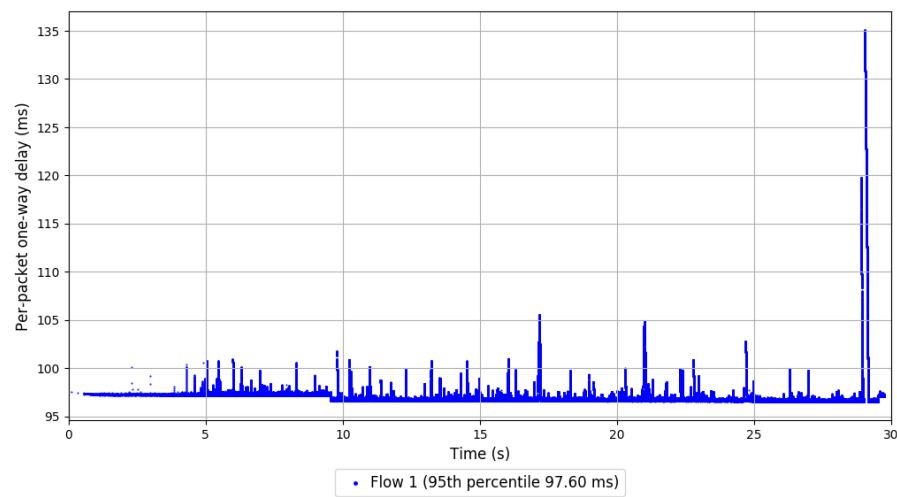
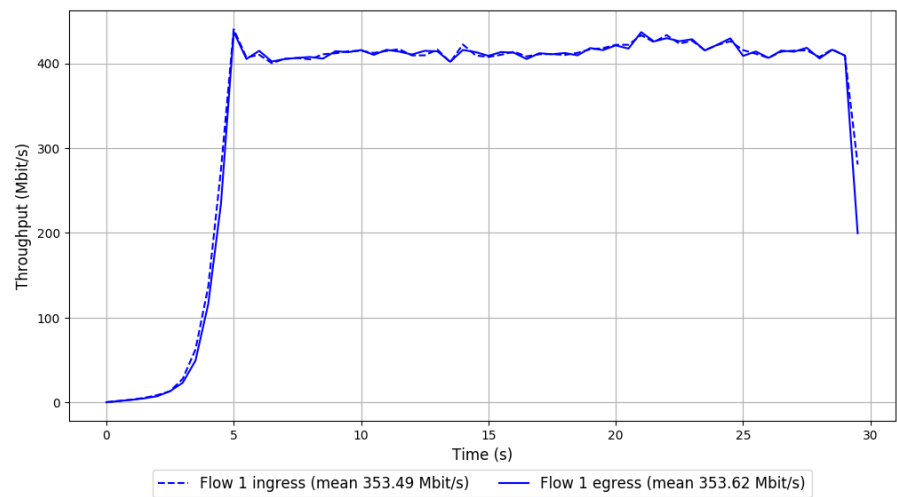
-- Flow 1:

Average throughput: 353.62 Mbit/s

95th percentile per-packet one-way delay: 97.604 ms

Loss rate: 0.76%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-12 21:47:48

End at: 2018-03-12 21:48:18

Below is generated by plot.py at 2018-03-13 02:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.50 Mbit/s

95th percentile per-packet one-way delay: 107.276 ms

Loss rate: 0.43%

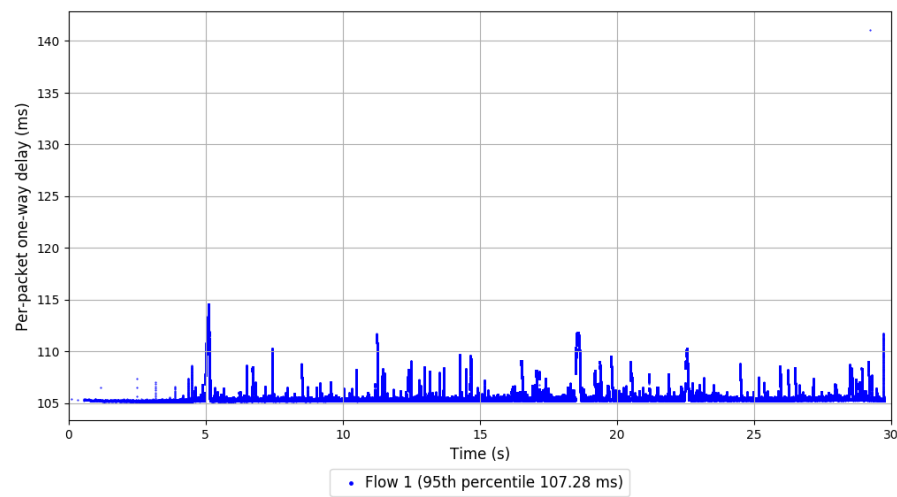
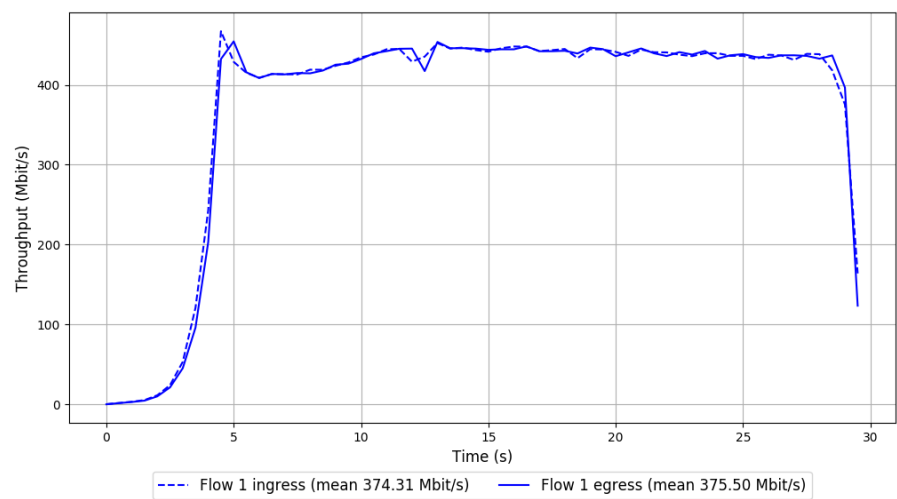
-- Flow 1:

Average throughput: 375.50 Mbit/s

95th percentile per-packet one-way delay: 107.276 ms

Loss rate: 0.43%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-12 22:03:39

End at: 2018-03-12 22:04:09

Below is generated by plot.py at 2018-03-13 02:22:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.06 Mbit/s

95th percentile per-packet one-way delay: 105.805 ms

Loss rate: 0.90%

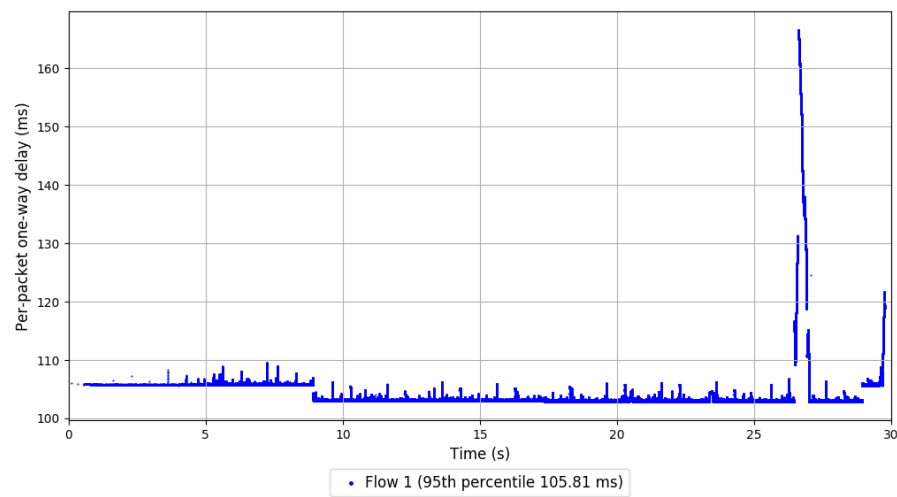
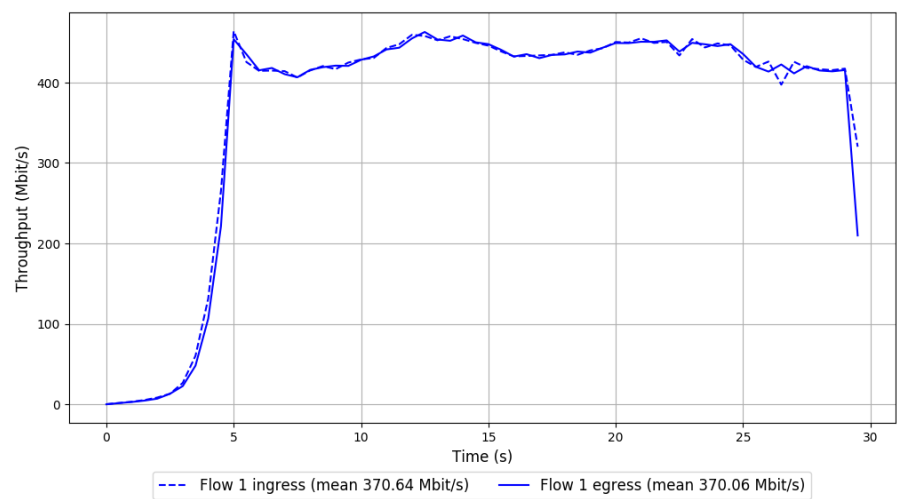
-- Flow 1:

Average throughput: 370.06 Mbit/s

95th percentile per-packet one-way delay: 105.805 ms

Loss rate: 0.90%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-12 22:19:08

End at: 2018-03-12 22:19:38

Below is generated by plot.py at 2018-03-13 02:22:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.49 Mbit/s

95th percentile per-packet one-way delay: 111.267 ms

Loss rate: 0.82%

-- Flow 1:

Average throughput: 364.49 Mbit/s

95th percentile per-packet one-way delay: 111.267 ms

Loss rate: 0.82%

Run 10: Report of Vivace-LTE — Data Link

