

Pantheon Report

Generated at 2018-03-20 12:15:24 (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.

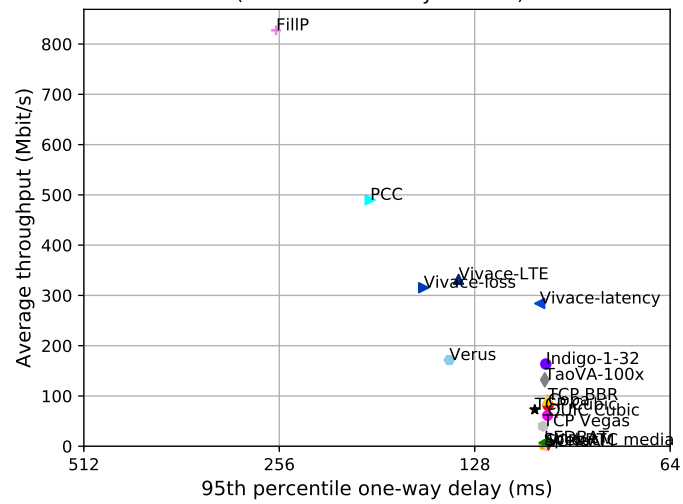
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

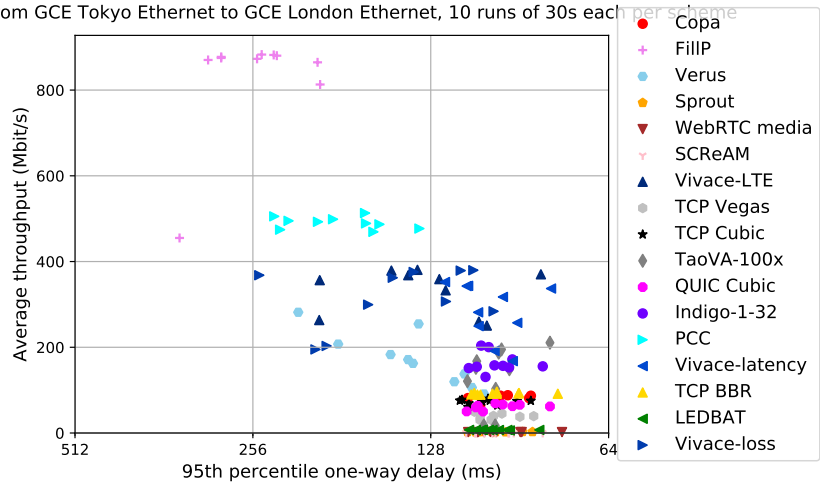
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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	91.96	98.77	0.82
TCP Cubic	10	72.70	103.43	0.89
LEDBAT	10	6.99	100.09	1.52
PCC	10	490.12	185.45	1.73
QUIC Cubic	9	61.05	98.87	0.92
SCReAM	10	0.19	99.47	0.72
WebRTC media	10	2.17	98.57	0.89
Sprout	10	2.43	100.20	0.91
TaoVA-100x	10	132.04	99.83	0.82
TCP Vegas	10	39.83	100.48	0.76
Verus	10	171.47	140.10	0.92
Copa	9	81.53	98.69	0.72
FillP	10	827.32	258.92	4.82
Indigo-1-32	10	163.56	99.47	0.81
Vivace-latency	10	283.96	101.66	1.09
Vivace-loss	10	315.28	153.39	1.41
Vivace-LTE	10	332.06	135.56	1.17

Run 1: Statistics of TCP BBR

Start at: 2018-03-20 06:01:16

End at: 2018-03-20 06:01:46

Below is generated by plot.py at 2018-03-20 11:06:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 100.602 ms

Loss rate: 0.81%

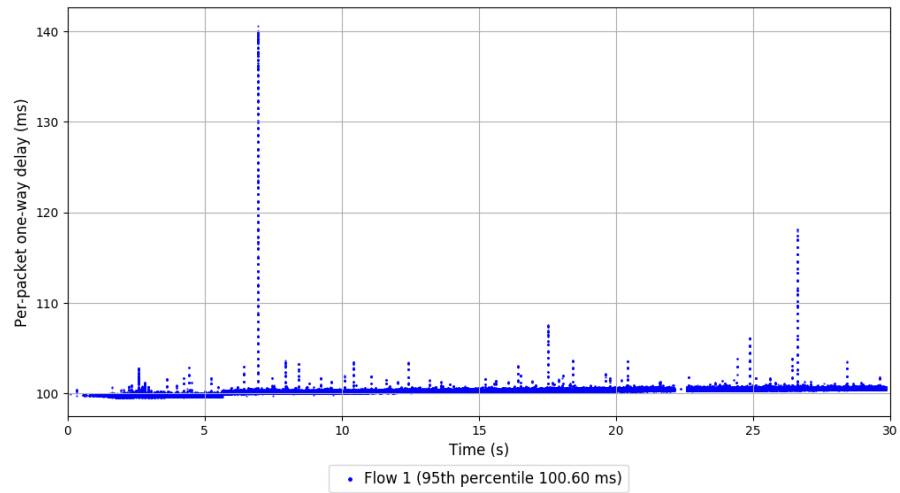
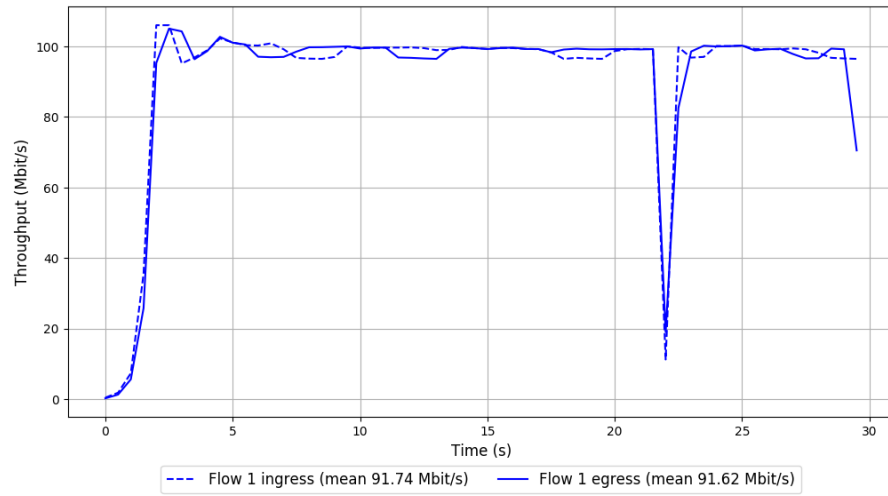
-- Flow 1:

Average throughput: 91.62 Mbit/s

95th percentile per-packet one-way delay: 100.602 ms

Loss rate: 0.81%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-20 06:16:54

End at: 2018-03-20 06:17:24

Below is generated by plot.py at 2018-03-20 11:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 0.83%

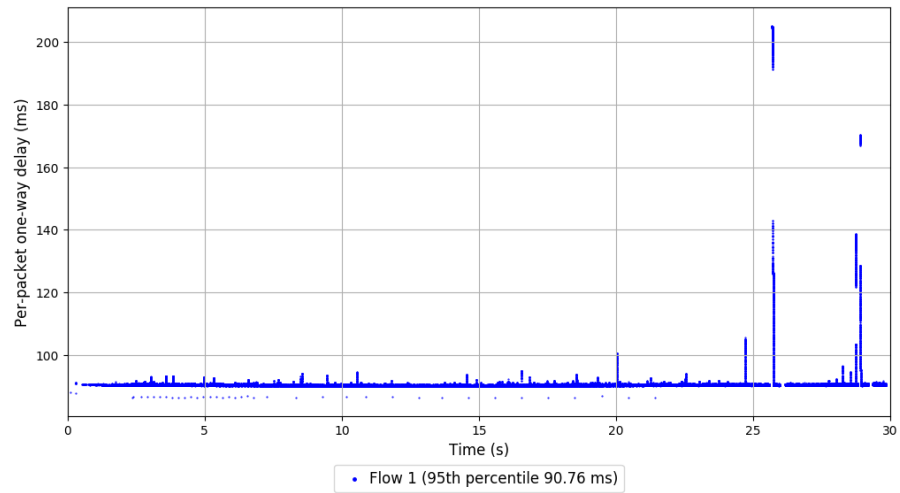
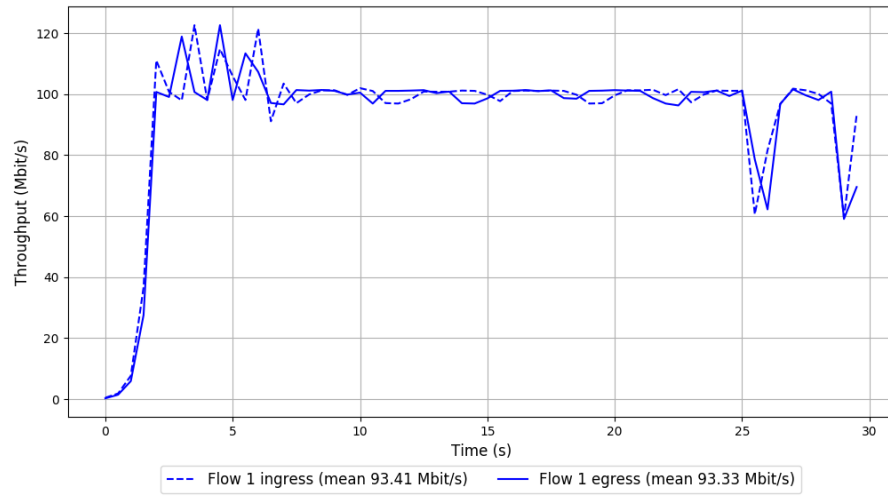
-- Flow 1:

Average throughput: 93.33 Mbit/s

95th percentile per-packet one-way delay: 90.762 ms

Loss rate: 0.83%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-20 06:32:19

End at: 2018-03-20 06:32:49

Below is generated by plot.py at 2018-03-20 11:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 90.909 ms

Loss rate: 0.78%

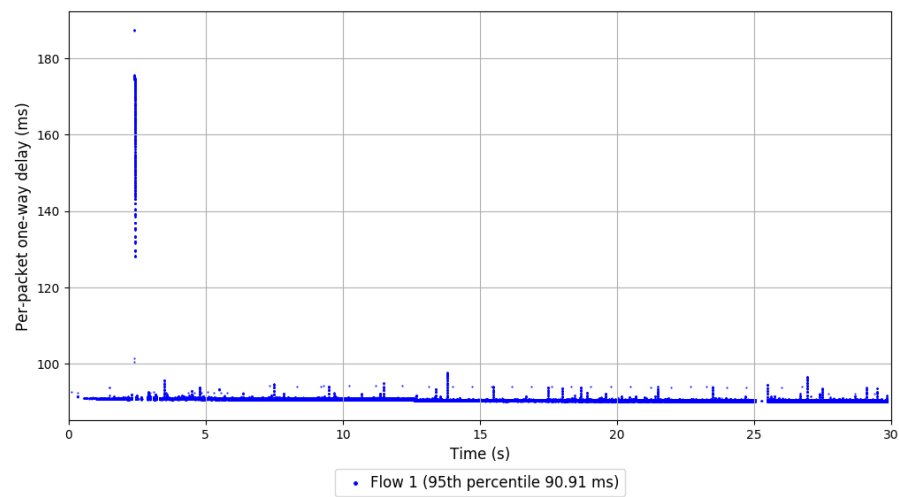
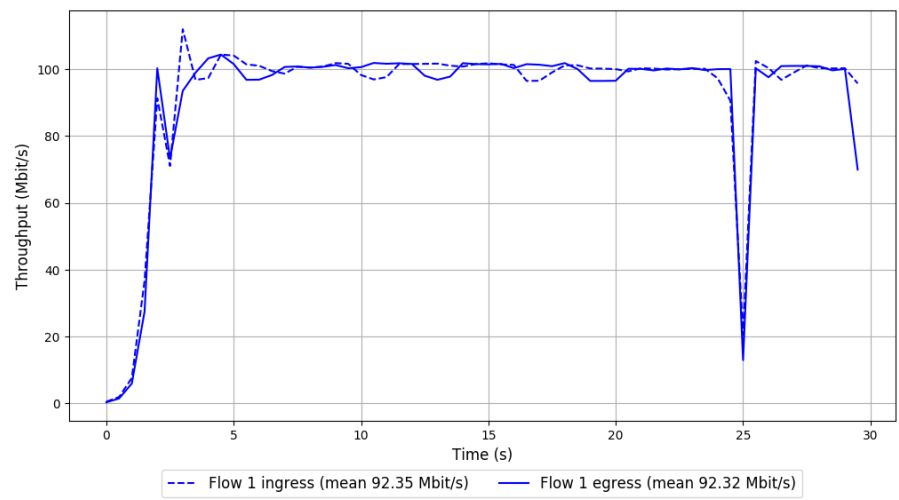
-- Flow 1:

Average throughput: 92.32 Mbit/s

95th percentile per-packet one-way delay: 90.909 ms

Loss rate: 0.78%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-20 06:47:56

End at: 2018-03-20 06:48:26

Below is generated by plot.py at 2018-03-20 11:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 78.018 ms

Loss rate: 0.79%

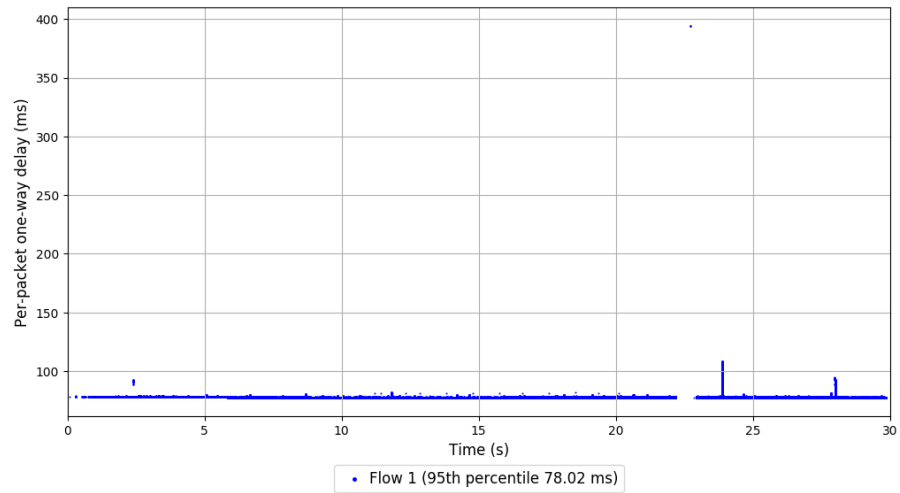
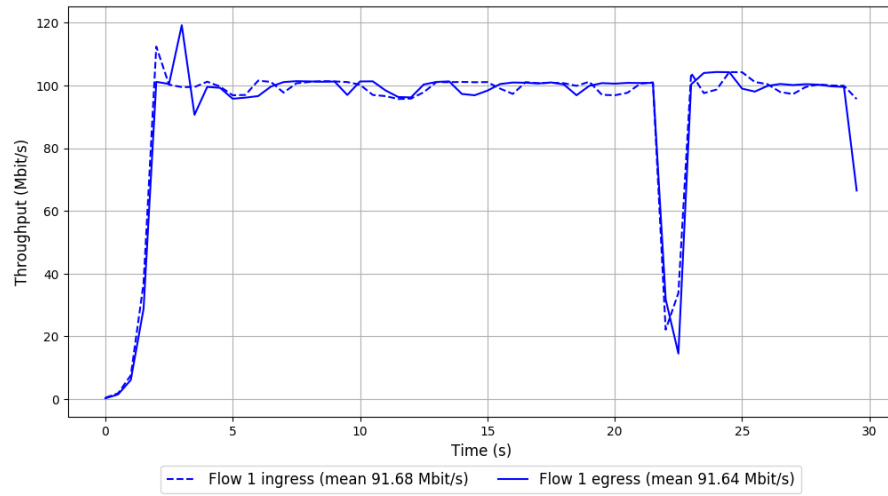
-- Flow 1:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 78.018 ms

Loss rate: 0.79%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

End at: 2018-03-20 07:04:20

Below is generated by plot.py at 2018-03-20 11:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.84 Mbit/s

95th percentile per-packet one-way delay: 98.948 ms

Loss rate: 0.79%

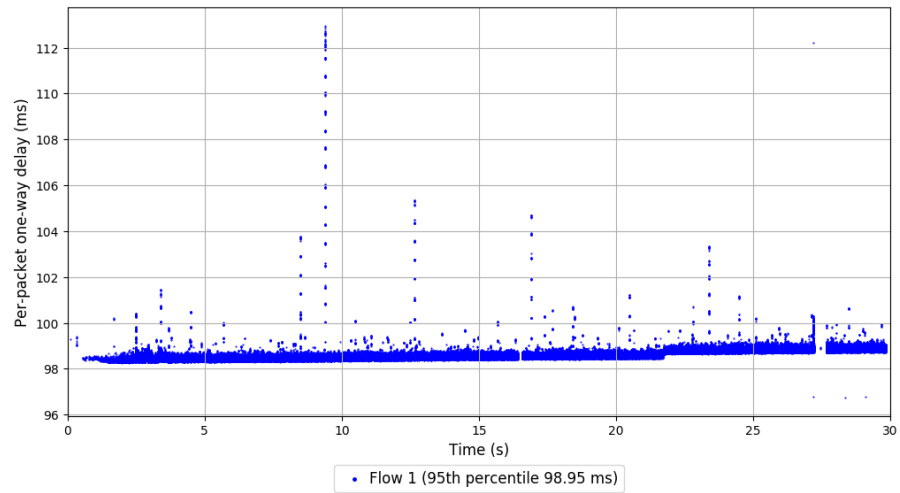
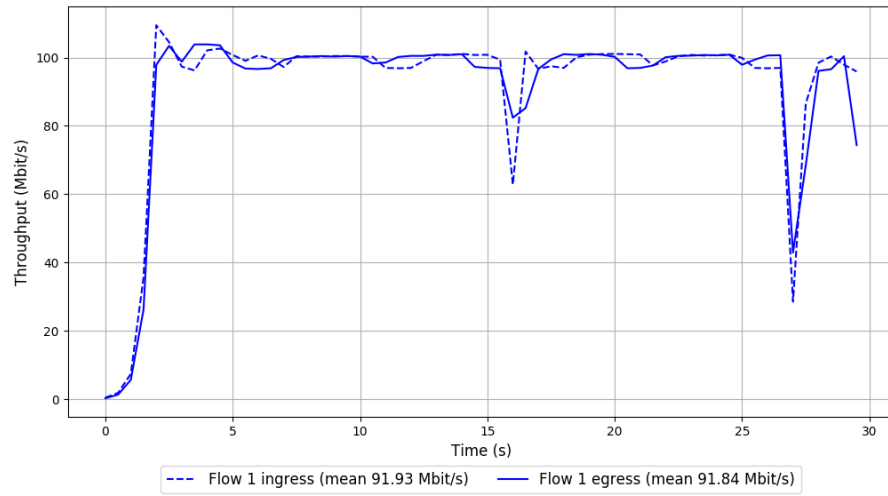
-- Flow 1:

Average throughput: 91.84 Mbit/s

95th percentile per-packet one-way delay: 98.948 ms

Loss rate: 0.79%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-20 07:19:07

End at: 2018-03-20 07:19:37

Below is generated by plot.py at 2018-03-20 11:06:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.42 Mbit/s

95th percentile per-packet one-way delay: 98.970 ms

Loss rate: 0.82%

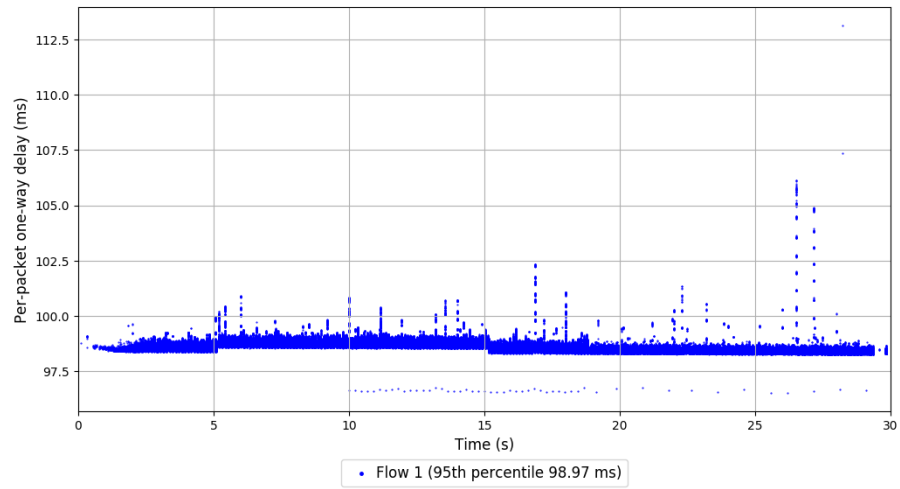
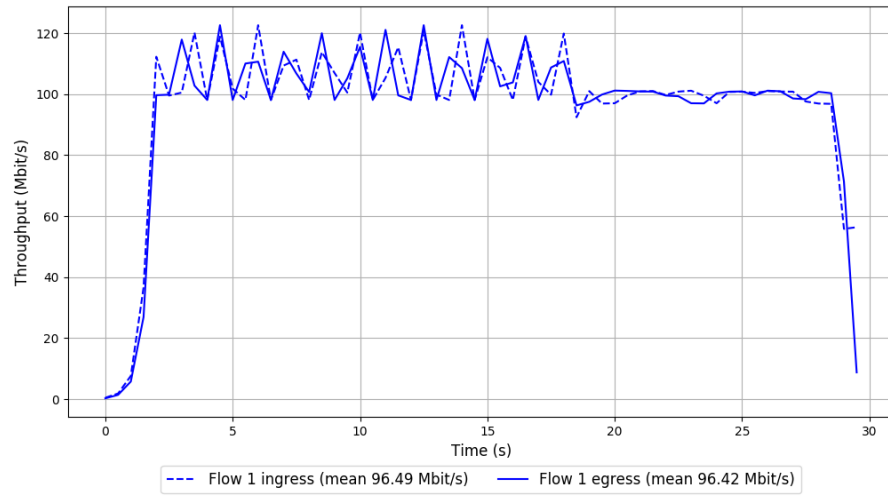
-- Flow 1:

Average throughput: 96.42 Mbit/s

95th percentile per-packet one-way delay: 98.970 ms

Loss rate: 0.82%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-20 07:34:09

End at: 2018-03-20 07:34:39

Below is generated by plot.py at 2018-03-20 11:06:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 105.457 ms

Loss rate: 0.81%

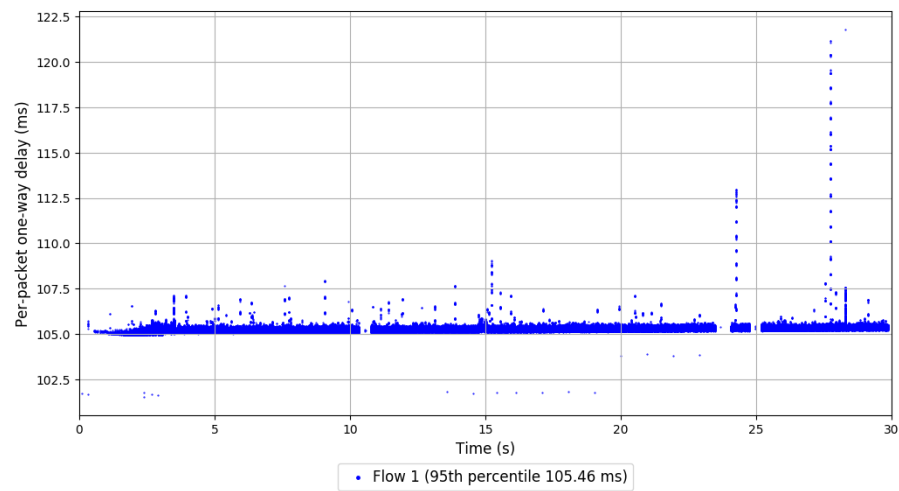
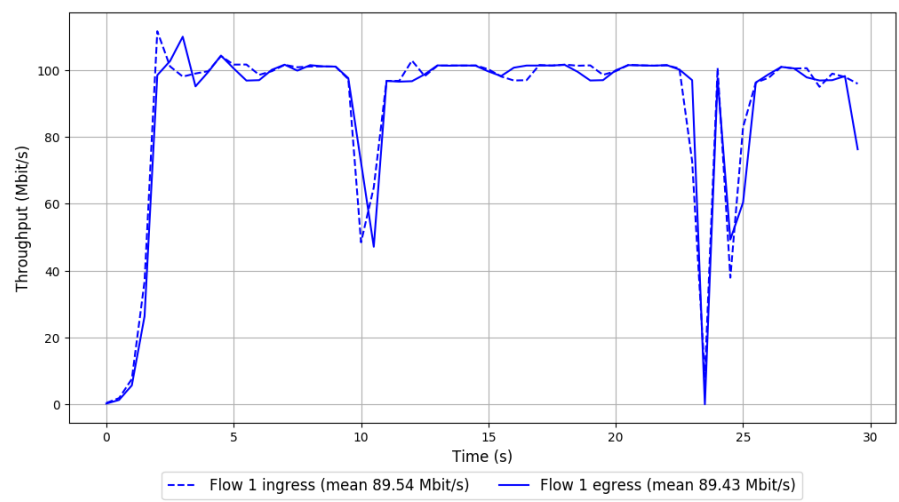
-- Flow 1:

Average throughput: 89.43 Mbit/s

95th percentile per-packet one-way delay: 105.457 ms

Loss rate: 0.81%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-20 07:49:55

End at: 2018-03-20 07:50:25

Below is generated by plot.py at 2018-03-20 11:06:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 106.719 ms

Loss rate: 0.83%

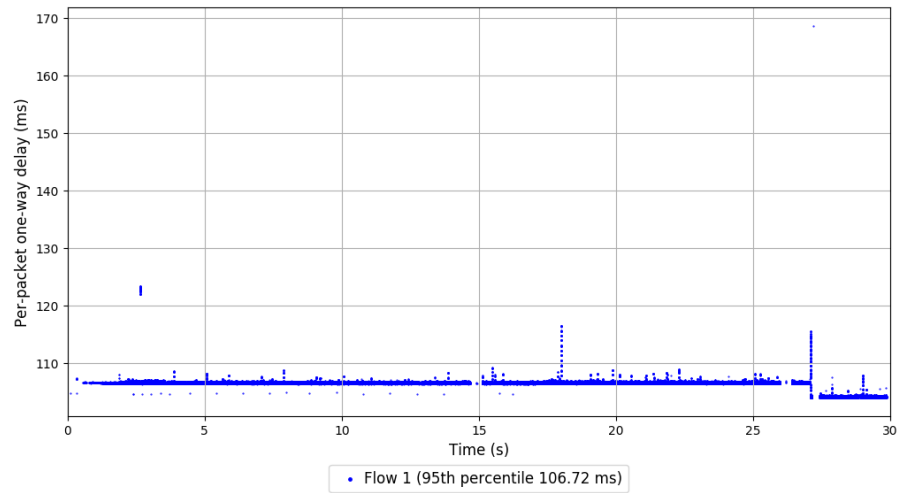
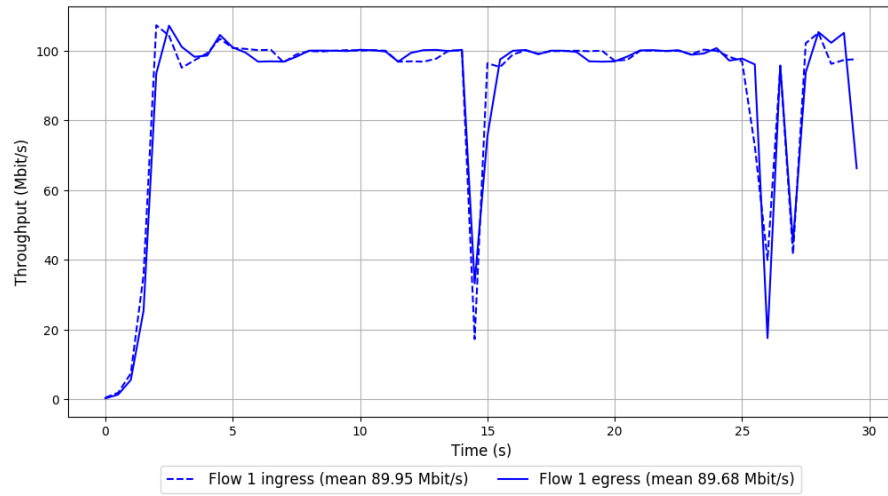
-- Flow 1:

Average throughput: 89.68 Mbit/s

95th percentile per-packet one-way delay: 106.719 ms

Loss rate: 0.83%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-20 08:05:30

End at: 2018-03-20 08:06:00

Below is generated by plot.py at 2018-03-20 11:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.32 Mbit/s

95th percentile per-packet one-way delay: 108.040 ms

Loss rate: 0.79%

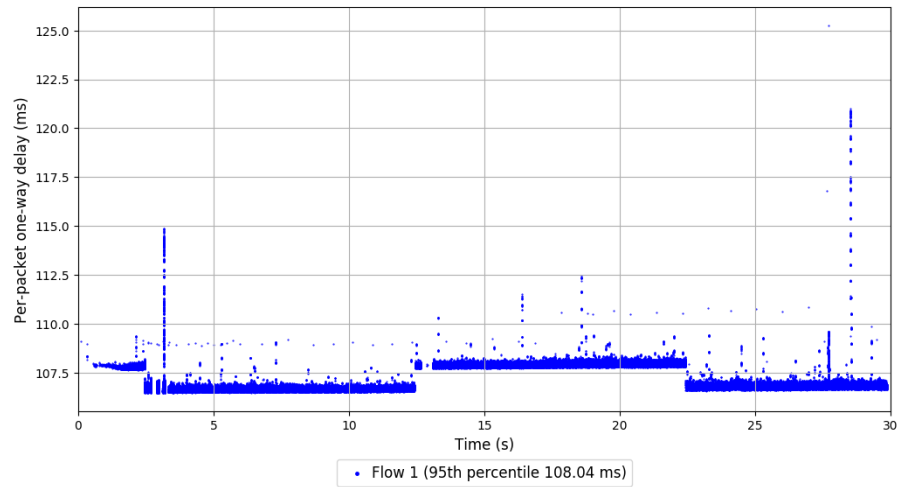
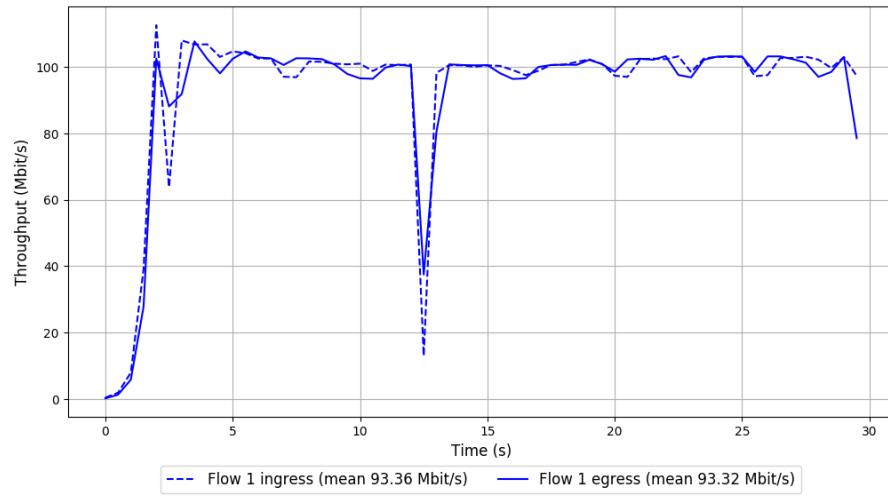
-- Flow 1:

Average throughput: 93.32 Mbit/s

95th percentile per-packet one-way delay: 108.040 ms

Loss rate: 0.79%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-20 08:21:08

End at: 2018-03-20 08:21:38

Below is generated by plot.py at 2018-03-20 11:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 109.256 ms

Loss rate: 0.91%

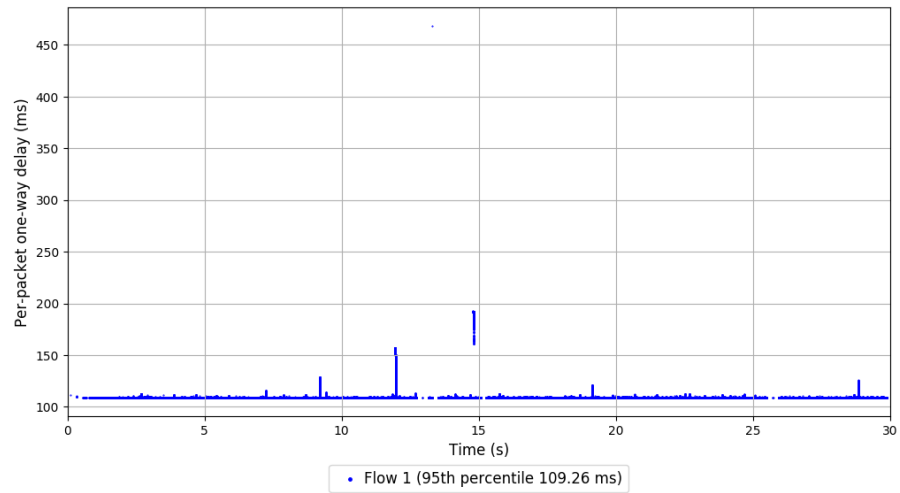
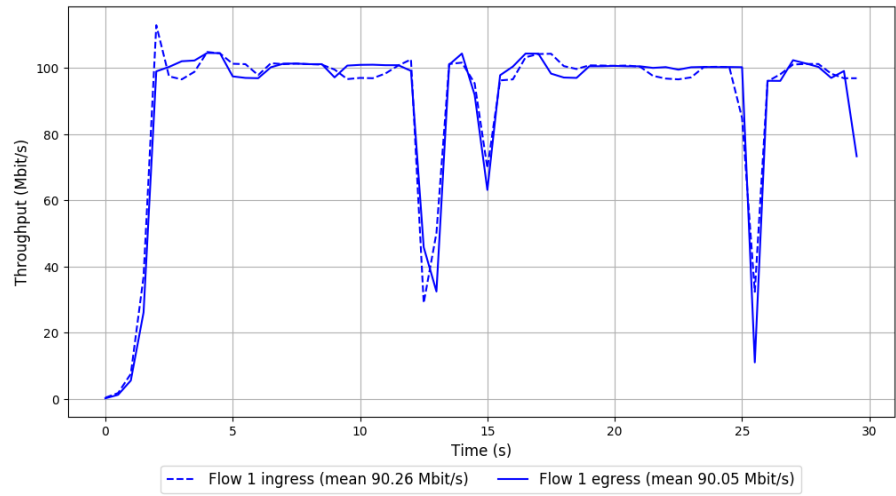
-- Flow 1:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 109.256 ms

Loss rate: 0.91%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-20 05:50:35

End at: 2018-03-20 05:51:05

Below is generated by plot.py at 2018-03-20 11:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 110.696 ms

Loss rate: 1.31%

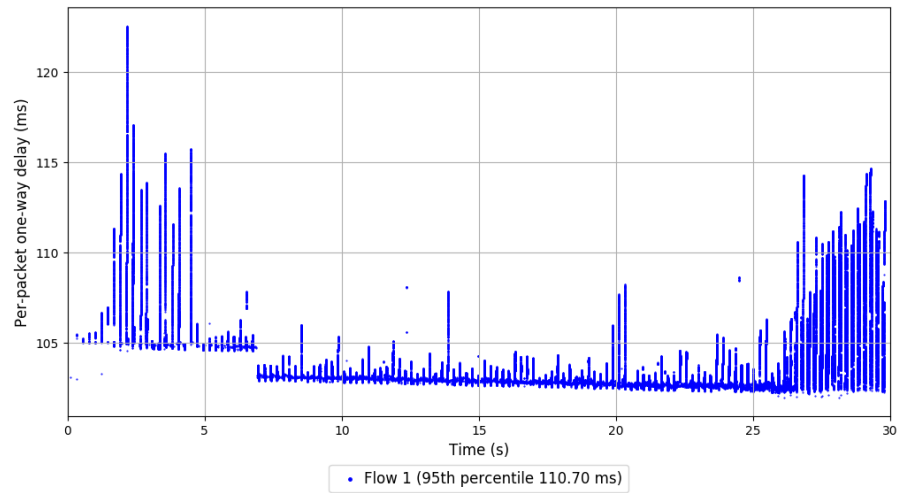
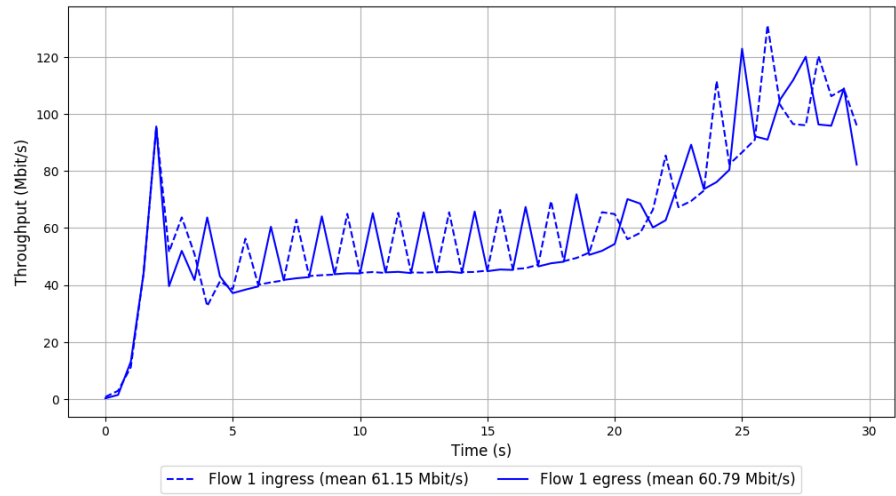
-- Flow 1:

Average throughput: 60.79 Mbit/s

95th percentile per-packet one-way delay: 110.696 ms

Loss rate: 1.31%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-20 06:06:00

End at: 2018-03-20 06:06:30

Below is generated by plot.py at 2018-03-20 11:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 104.814 ms

Loss rate: 0.61%

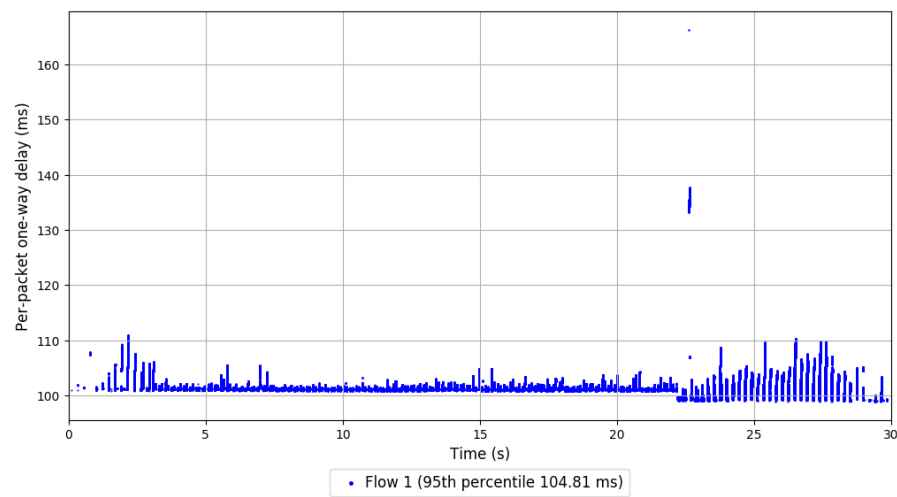
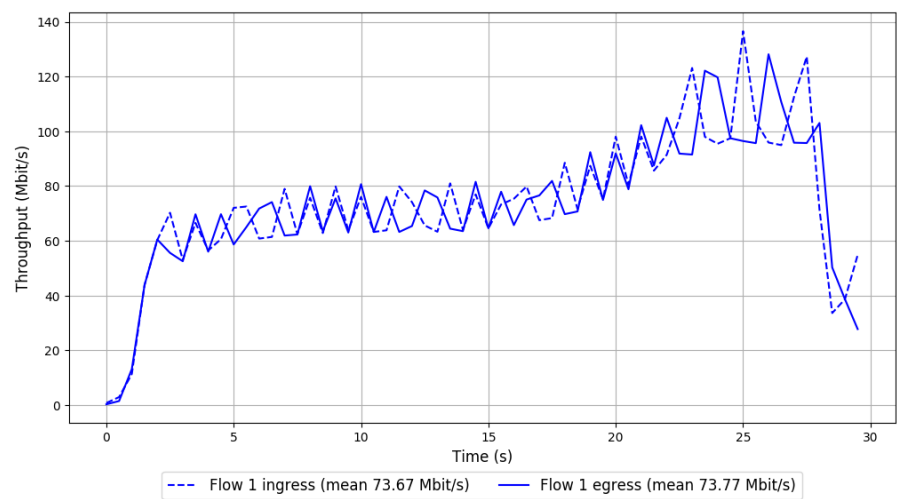
-- Flow 1:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 104.814 ms

Loss rate: 0.61%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-20 06:21:12

End at: 2018-03-20 06:21:42

Below is generated by plot.py at 2018-03-20 11:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 98.708 ms

Loss rate: 0.46%

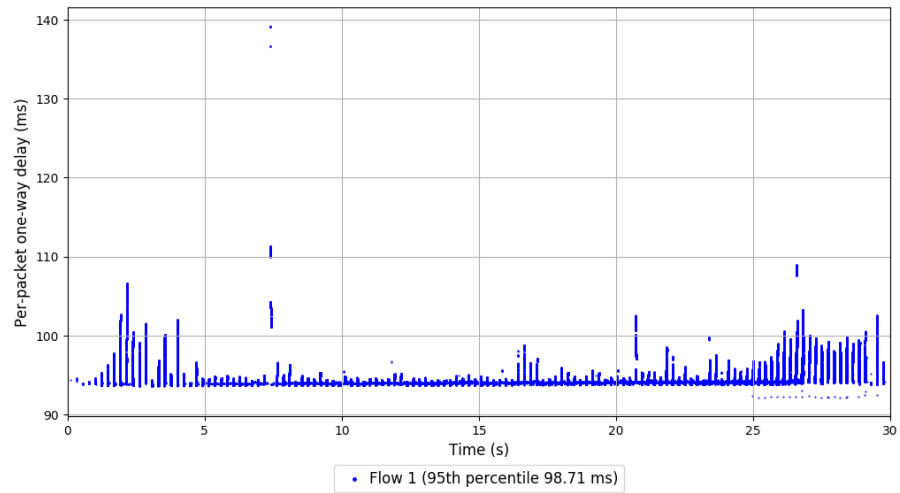
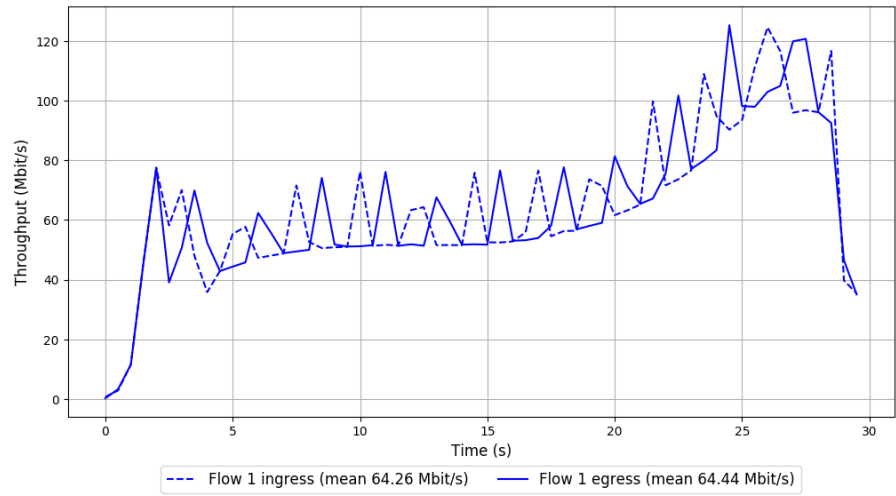
-- Flow 1:

Average throughput: 64.44 Mbit/s

95th percentile per-packet one-way delay: 98.708 ms

Loss rate: 0.46%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-20 06:36:43

End at: 2018-03-20 06:37:13

Below is generated by plot.py at 2018-03-20 11:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 91.467 ms

Loss rate: 1.08%

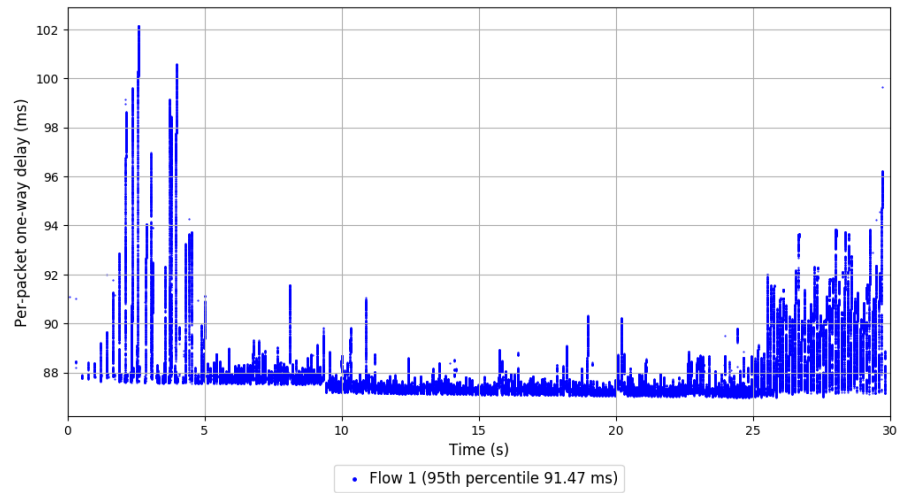
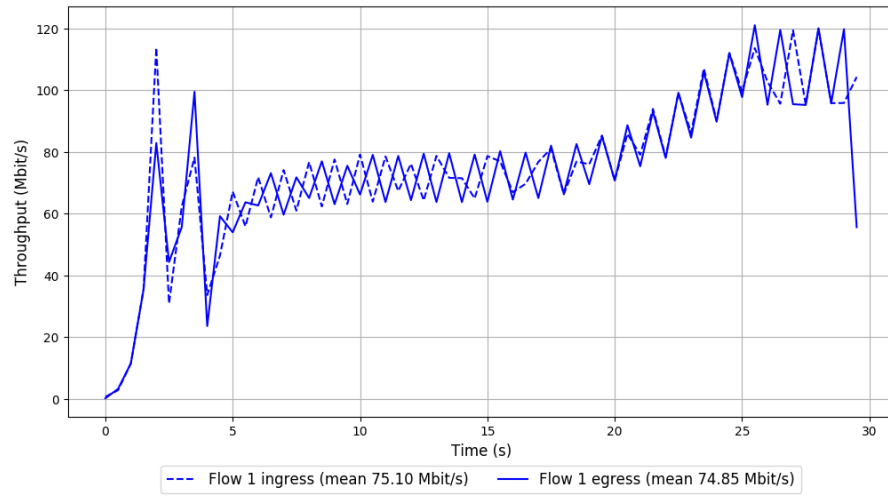
-- Flow 1:

Average throughput: 74.85 Mbit/s

95th percentile per-packet one-way delay: 91.467 ms

Loss rate: 1.08%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-20 06:52:38

End at: 2018-03-20 06:53:08

Below is generated by plot.py at 2018-03-20 11:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.25 Mbit/s

95th percentile per-packet one-way delay: 86.662 ms

Loss rate: 1.06%

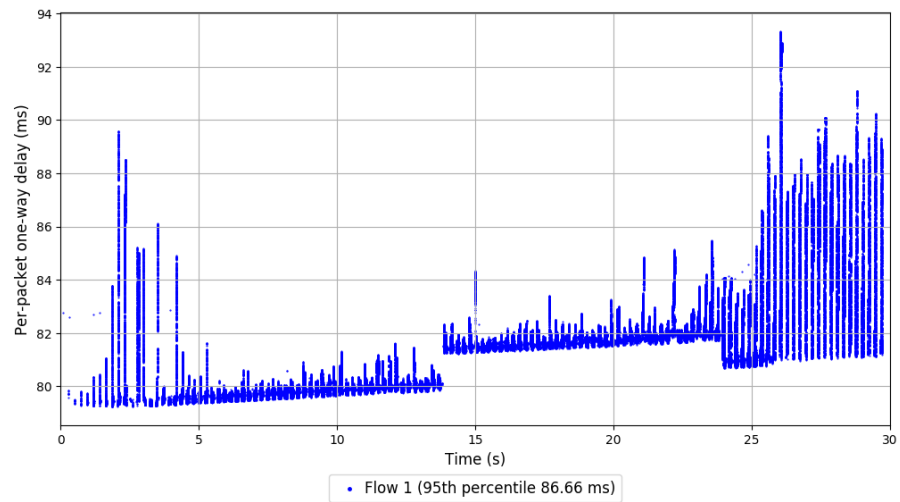
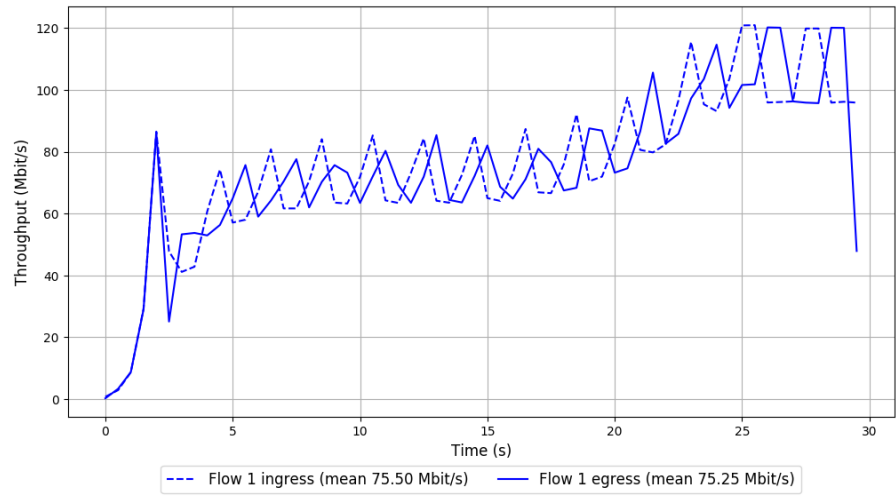
-- Flow 1:

Average throughput: 75.25 Mbit/s

95th percentile per-packet one-way delay: 86.662 ms

Loss rate: 1.06%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-20 07:08:15

End at: 2018-03-20 07:08:45

Below is generated by plot.py at 2018-03-20 11:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 102.418 ms

Loss rate: 0.97%

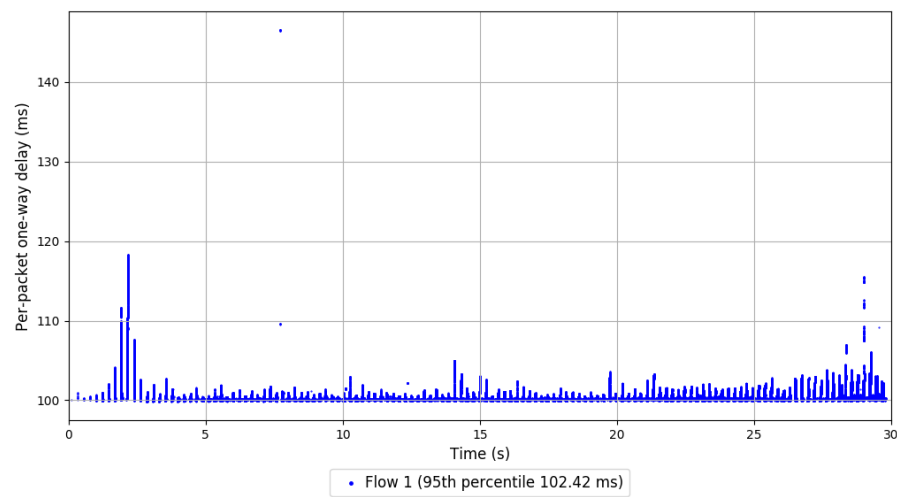
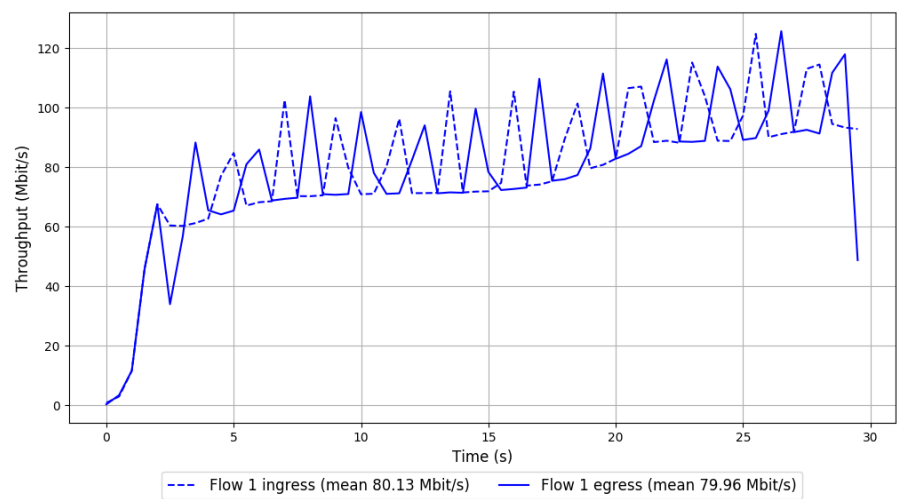
-- Flow 1:

Average throughput: 79.96 Mbit/s

95th percentile per-packet one-way delay: 102.418 ms

Loss rate: 0.97%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-20 07:23:46

End at: 2018-03-20 07:24:16

Below is generated by plot.py at 2018-03-20 11:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 101.679 ms

Loss rate: 0.67%

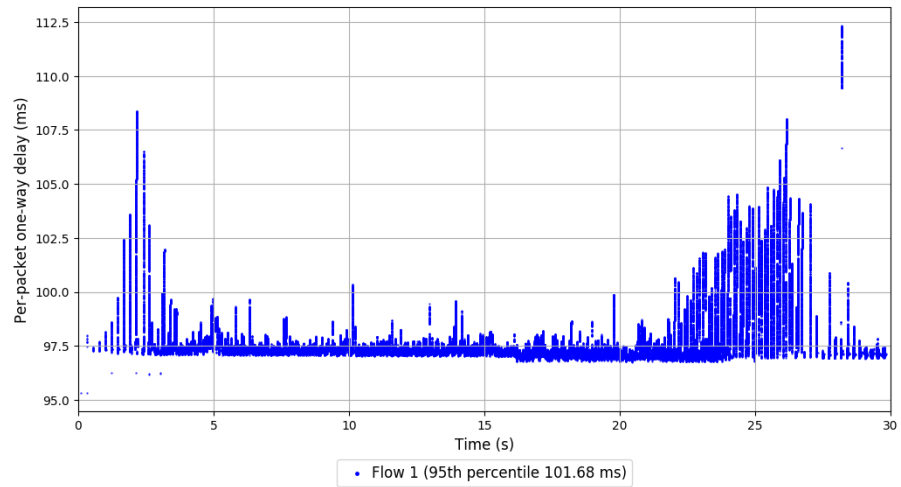
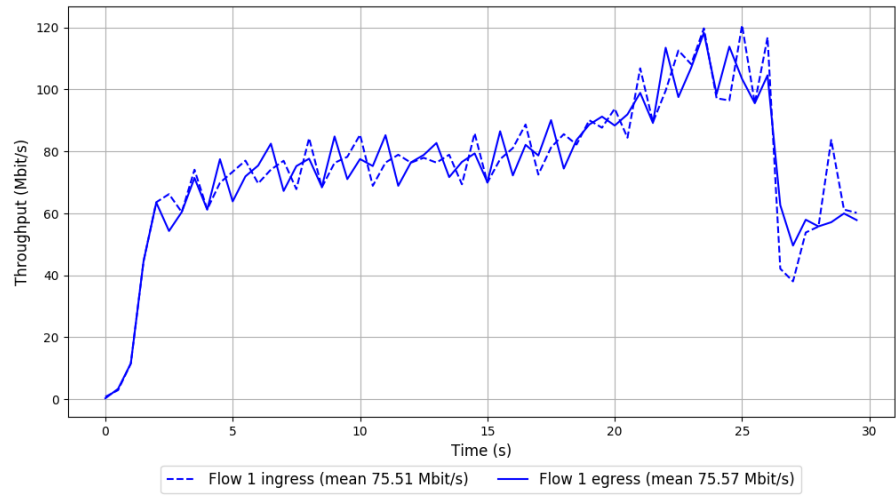
-- Flow 1:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 101.679 ms

Loss rate: 0.67%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-20 07:38:50

End at: 2018-03-20 07:39:20

Below is generated by plot.py at 2018-03-20 11:08:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.10 Mbit/s

95th percentile per-packet one-way delay: 110.336 ms

Loss rate: 0.74%

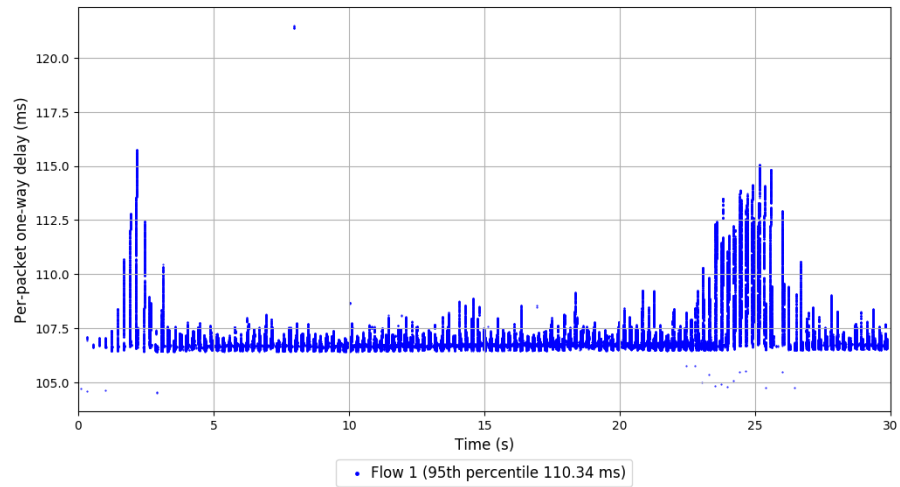
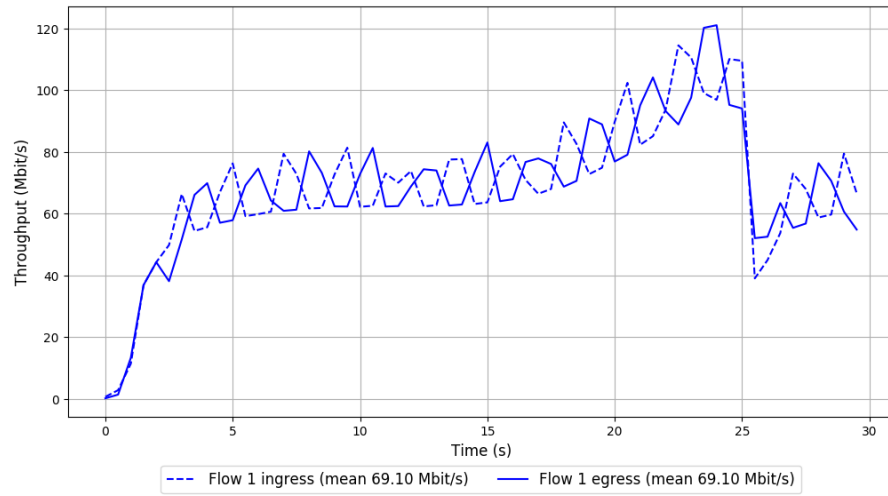
-- Flow 1:

Average throughput: 69.10 Mbit/s

95th percentile per-packet one-way delay: 110.336 ms

Loss rate: 0.74%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-20 07:54:27

End at: 2018-03-20 07:54:57

Below is generated by plot.py at 2018-03-20 11:08:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.55 Mbit/s

95th percentile per-packet one-way delay: 113.301 ms

Loss rate: 1.03%

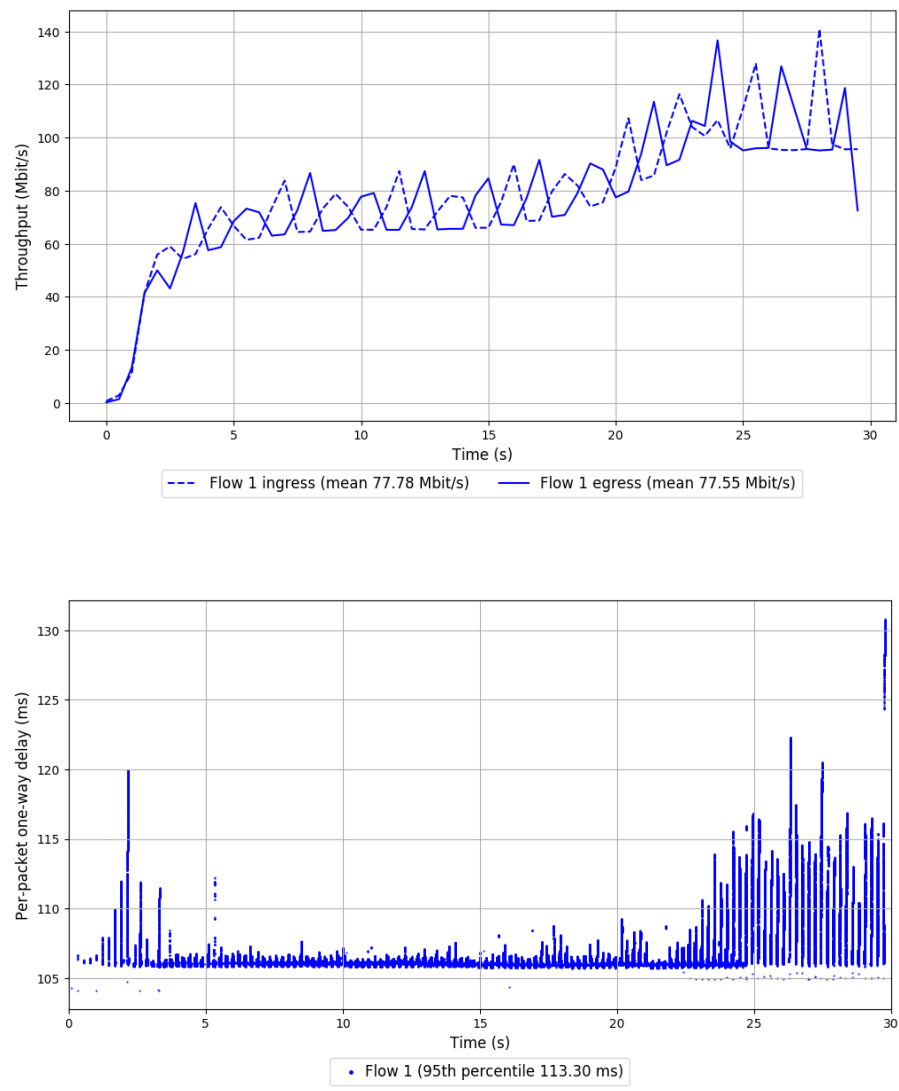
-- Flow 1:

Average throughput: 77.55 Mbit/s

95th percentile per-packet one-way delay: 113.301 ms

Loss rate: 1.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-20 08:10:06

End at: 2018-03-20 08:10:36

Below is generated by plot.py at 2018-03-20 11:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 114.259 ms

Loss rate: 0.98%

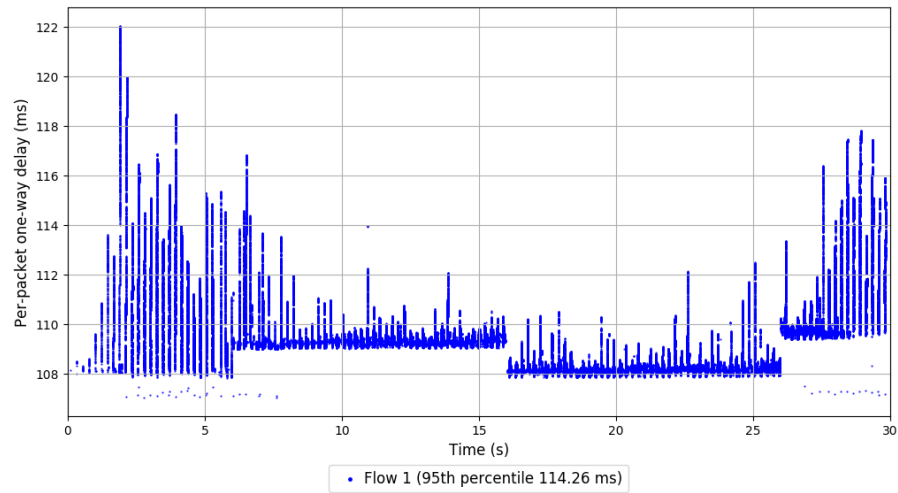
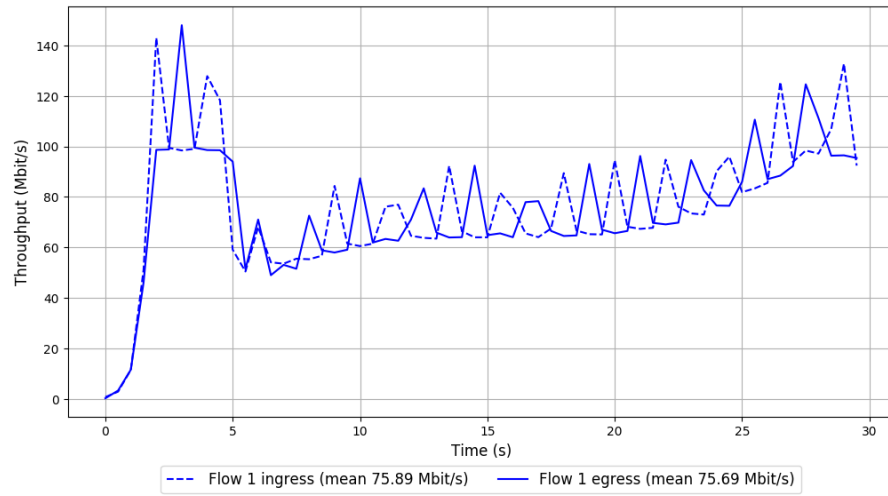
-- Flow 1:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 114.259 ms

Loss rate: 0.98%

Run 10: Report of TCP Cubic — Data Link

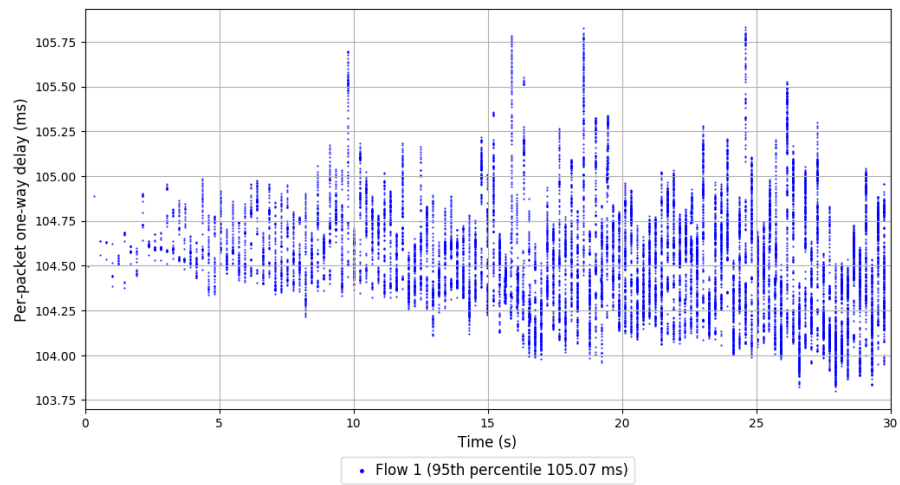
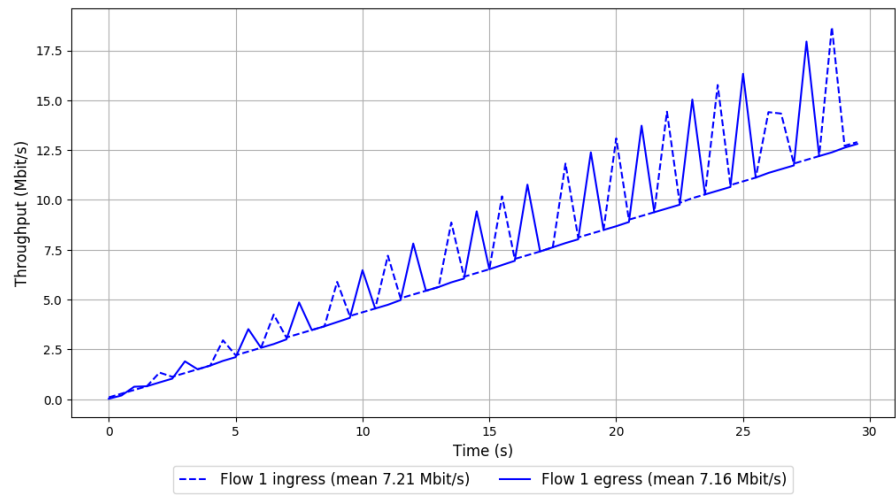


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-20 05:55:42
End at: 2018-03-20 05:56:12

# Below is generated by plot.py at 2018-03-20 11:08:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 105.069 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 105.069 ms
Loss rate: 1.50%
```

Run 1: Report of LEDBAT — Data Link

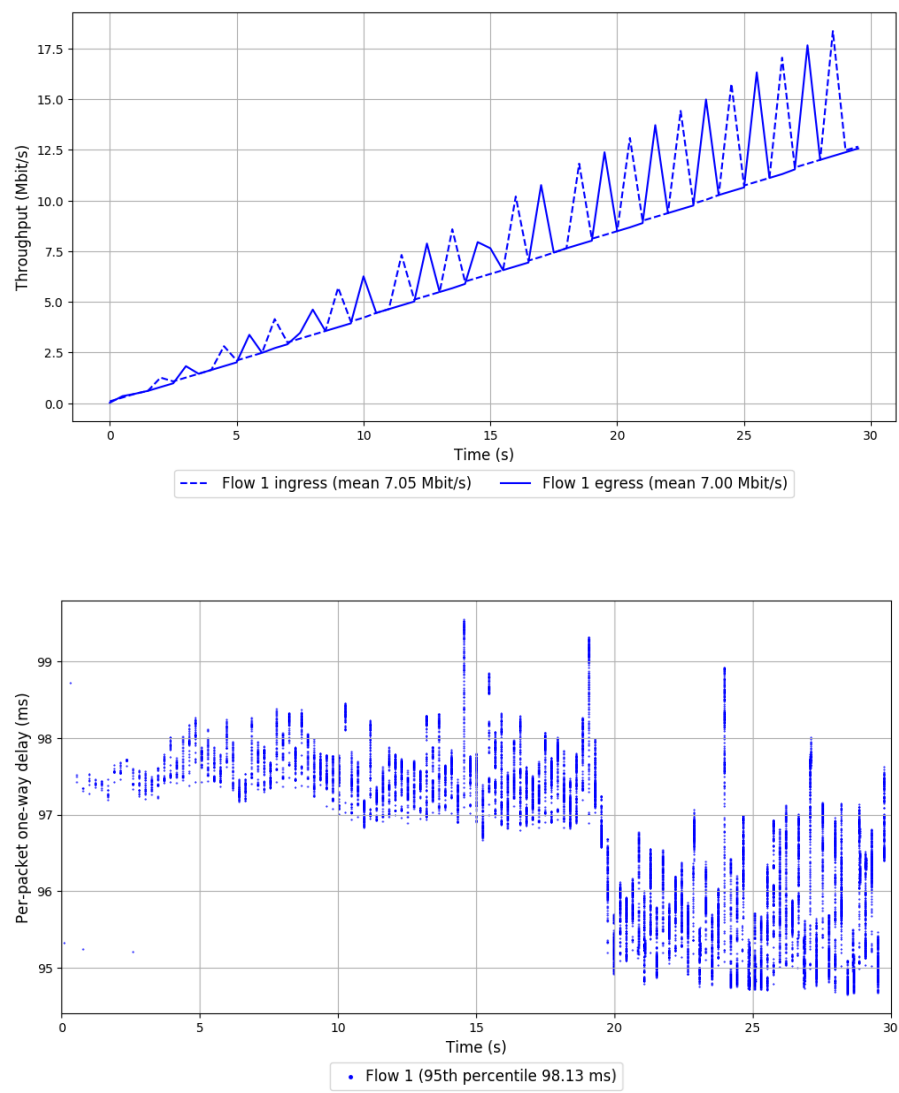


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-20 06:11:02
End at: 2018-03-20 06:11:32

# Below is generated by plot.py at 2018-03-20 11:08:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 98.129 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 98.129 ms
Loss rate: 1.51%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-20 06:26:29

End at: 2018-03-20 06:26:59

Below is generated by plot.py at 2018-03-20 11:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 94.966 ms

Loss rate: 1.50%

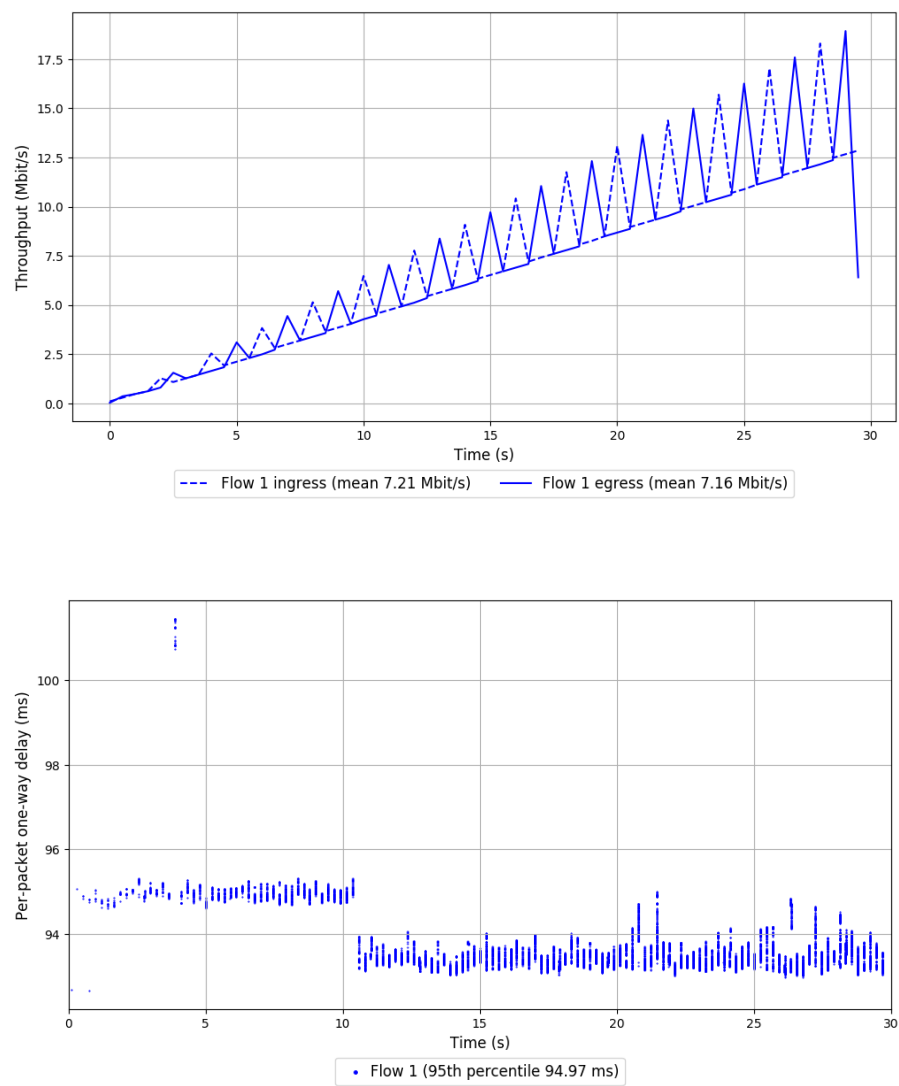
-- Flow 1:

Average throughput: 7.16 Mbit/s

95th percentile per-packet one-way delay: 94.966 ms

Loss rate: 1.50%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-20 06:41:56

End at: 2018-03-20 06:42:26

Below is generated by plot.py at 2018-03-20 11:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 83.855 ms

Loss rate: 1.51%

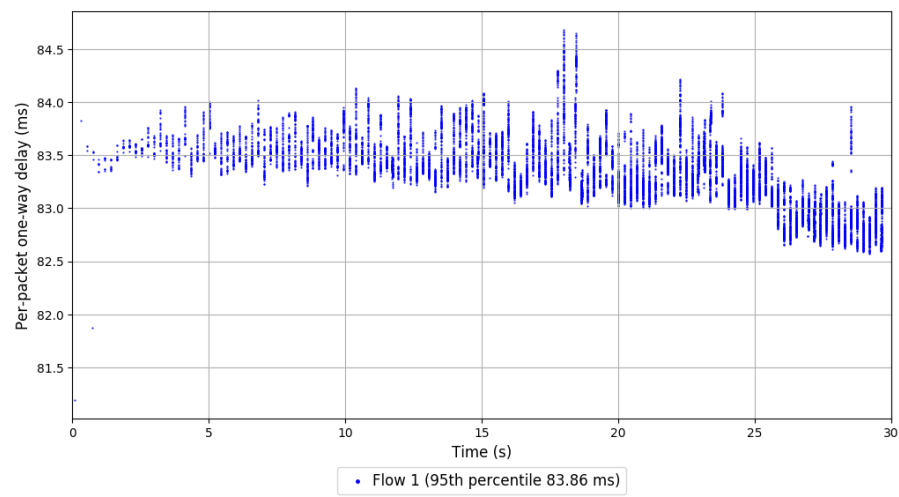
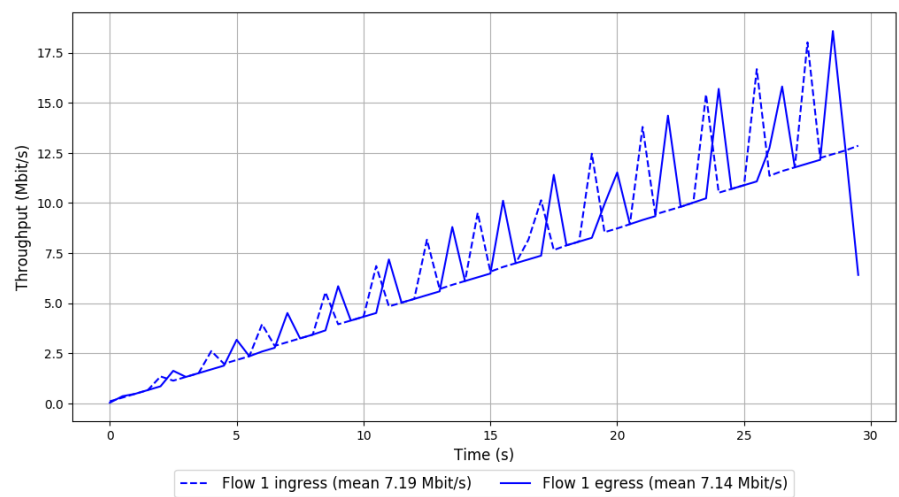
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 83.855 ms

Loss rate: 1.51%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-20 06:57:52

End at: 2018-03-20 06:58:22

Below is generated by plot.py at 2018-03-20 11:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 94.053 ms

Loss rate: 1.64%

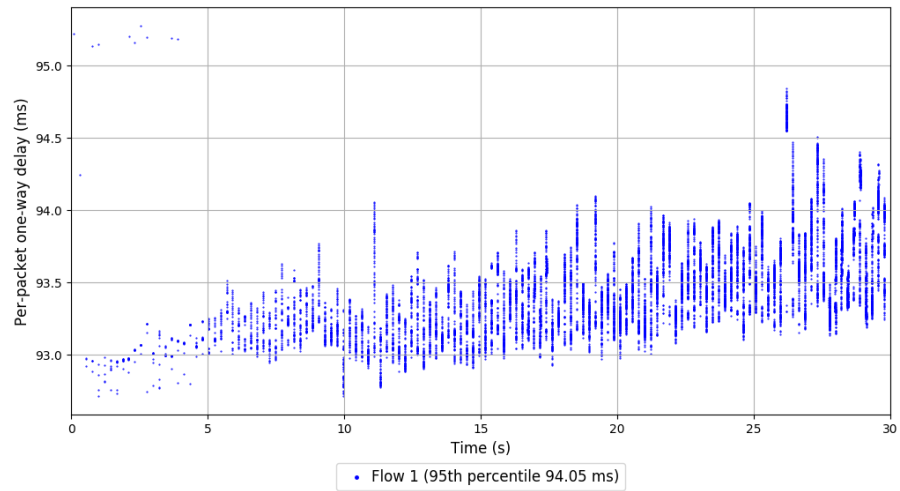
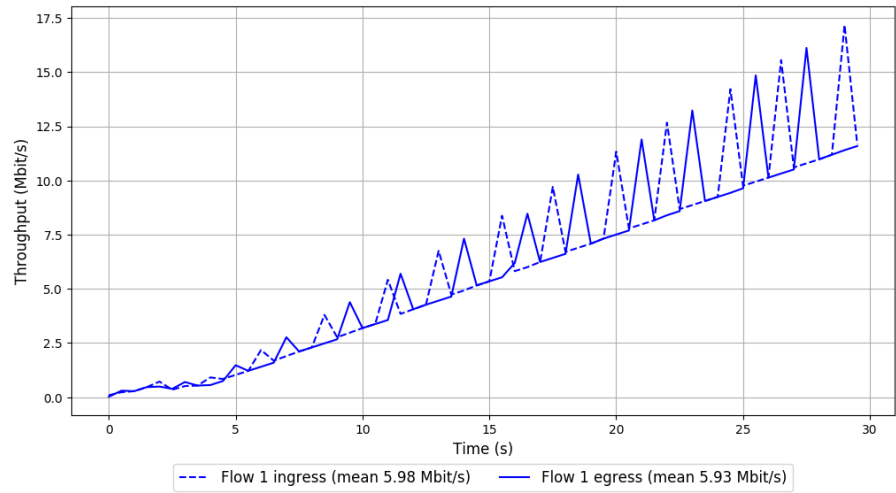
-- Flow 1:

Average throughput: 5.93 Mbit/s

95th percentile per-packet one-way delay: 94.053 ms

Loss rate: 1.64%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-20 07:13:19

End at: 2018-03-20 07:13:49

Below is generated by plot.py at 2018-03-20 11:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 100.617 ms

Loss rate: 1.50%

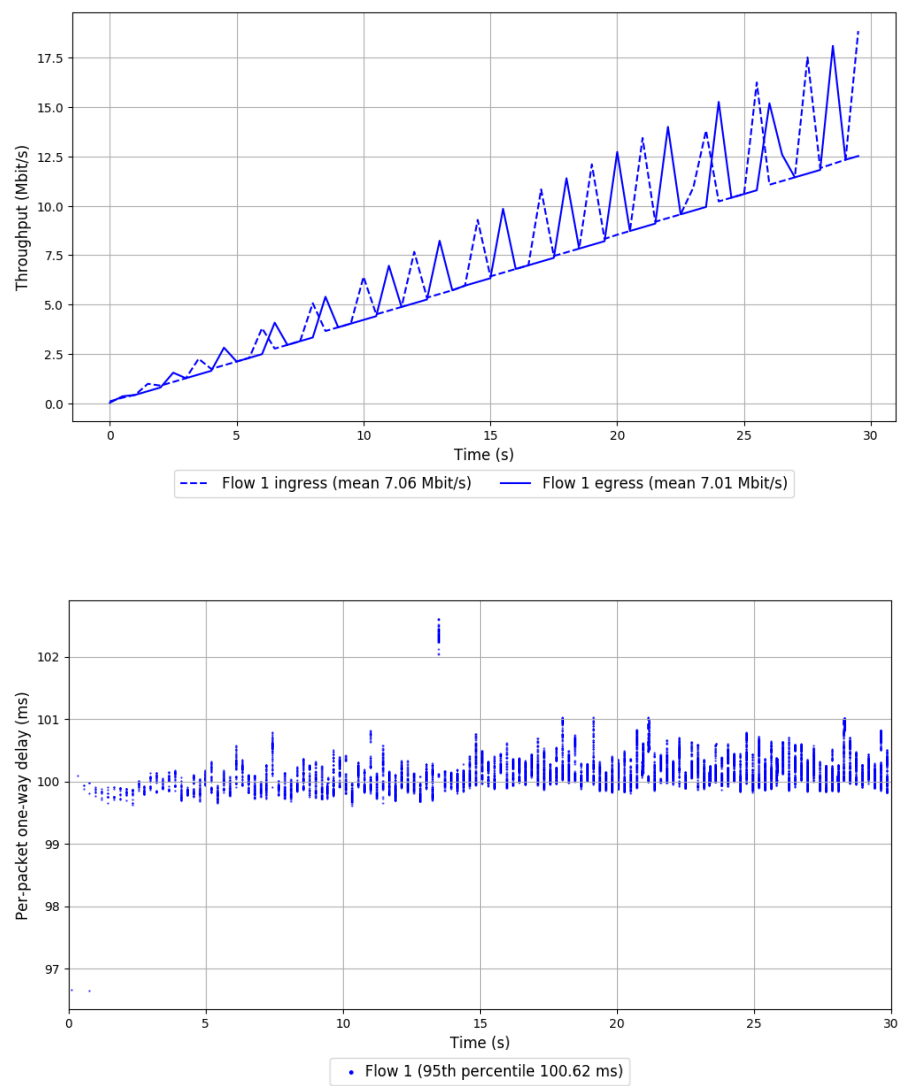
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 100.617 ms

Loss rate: 1.50%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-20 07:28:33

End at: 2018-03-20 07:29:03

Below is generated by plot.py at 2018-03-20 11:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 102.032 ms

Loss rate: 1.49%

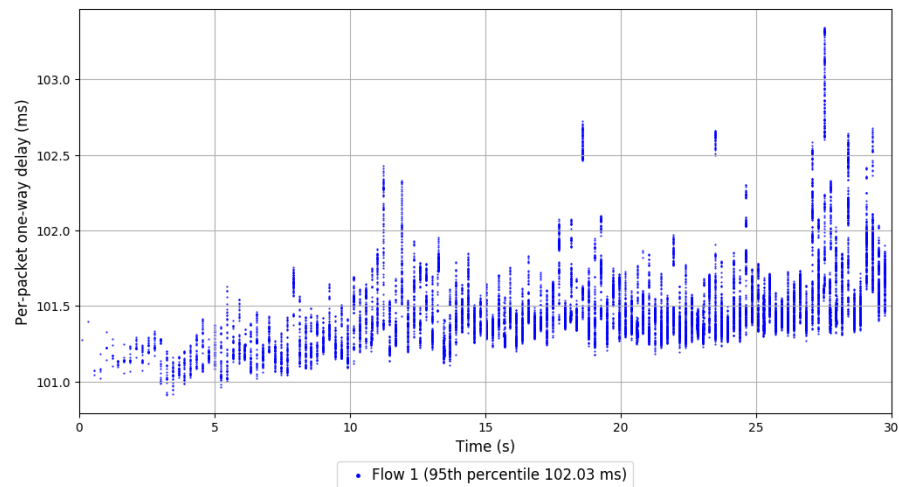
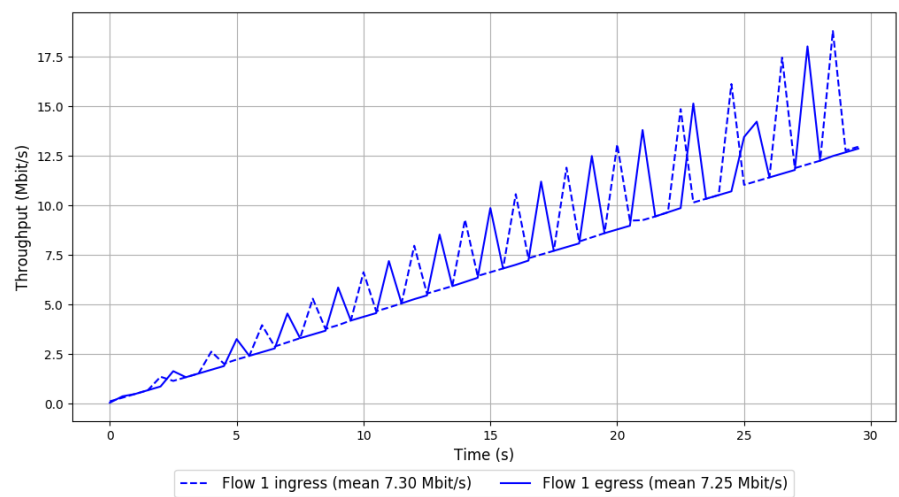
-- Flow 1:

Average throughput: 7.25 Mbit/s

95th percentile per-packet one-way delay: 102.032 ms

Loss rate: 1.49%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-20 07:43:58

End at: 2018-03-20 07:44:28

Below is generated by plot.py at 2018-03-20 11:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 107.383 ms

Loss rate: 1.51%

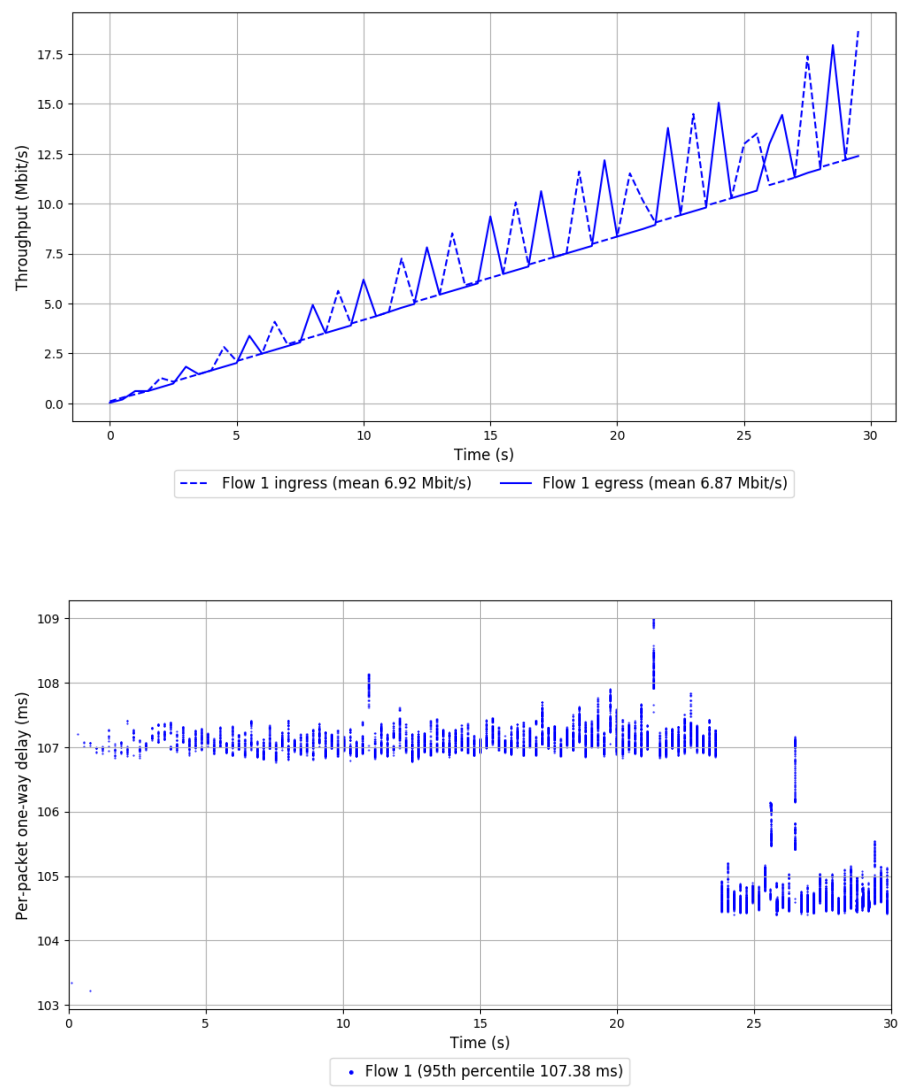
-- Flow 1:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 107.383 ms

Loss rate: 1.51%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-20 07:59:32

End at: 2018-03-20 08:00:02

Below is generated by plot.py at 2018-03-20 11:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 104.506 ms

Loss rate: 1.50%

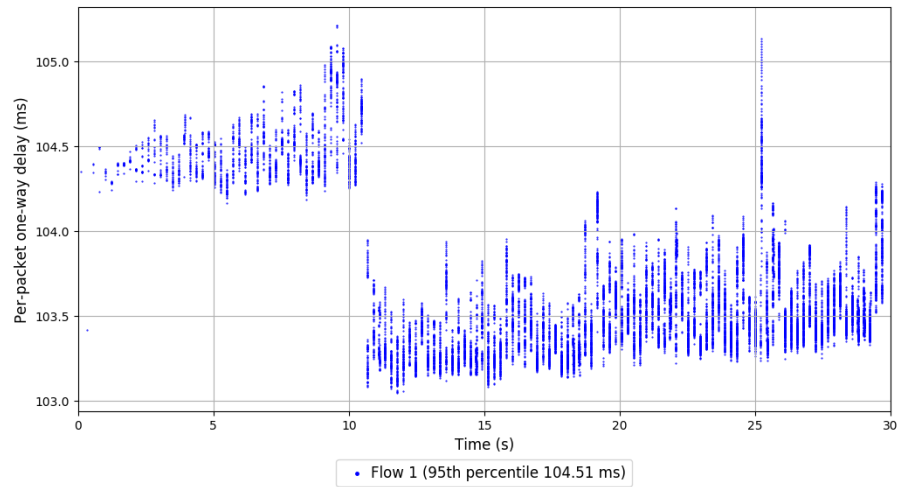
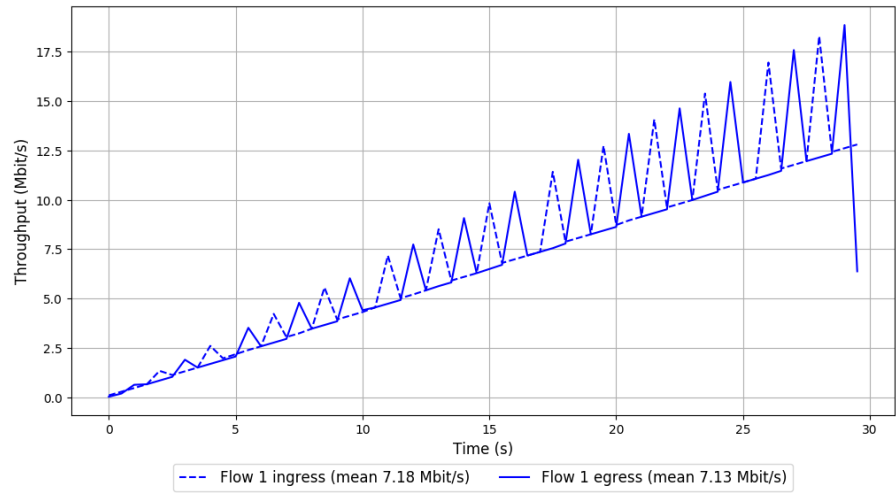
-- Flow 1:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 104.506 ms

Loss rate: 1.50%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-20 08:15:17

End at: 2018-03-20 08:15:47

Below is generated by plot.py at 2018-03-20 11:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 110.242 ms

Loss rate: 1.49%

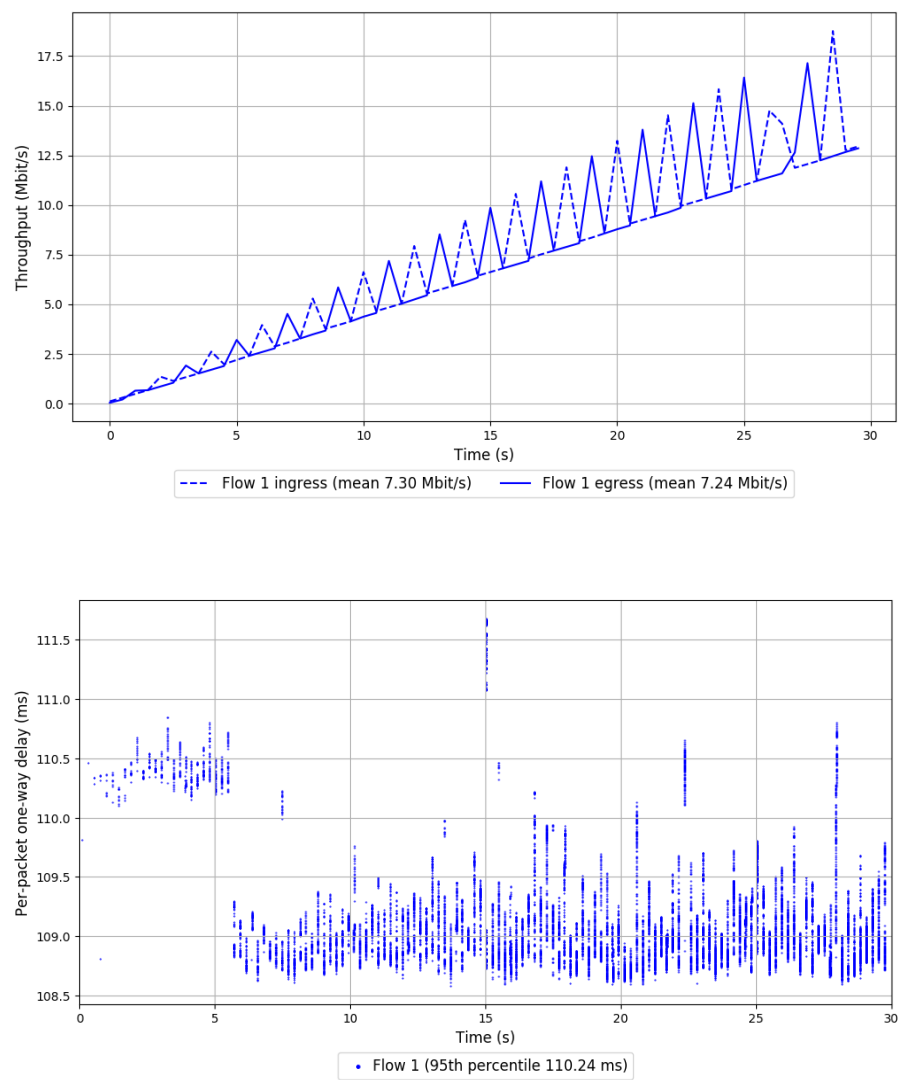
-- Flow 1:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 110.242 ms

Loss rate: 1.49%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-03-20 05:49:34

End at: 2018-03-20 05:50:04

Below is generated by plot.py at 2018-03-20 11:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.11 Mbit/s

95th percentile per-packet one-way delay: 165.344 ms

Loss rate: 1.77%

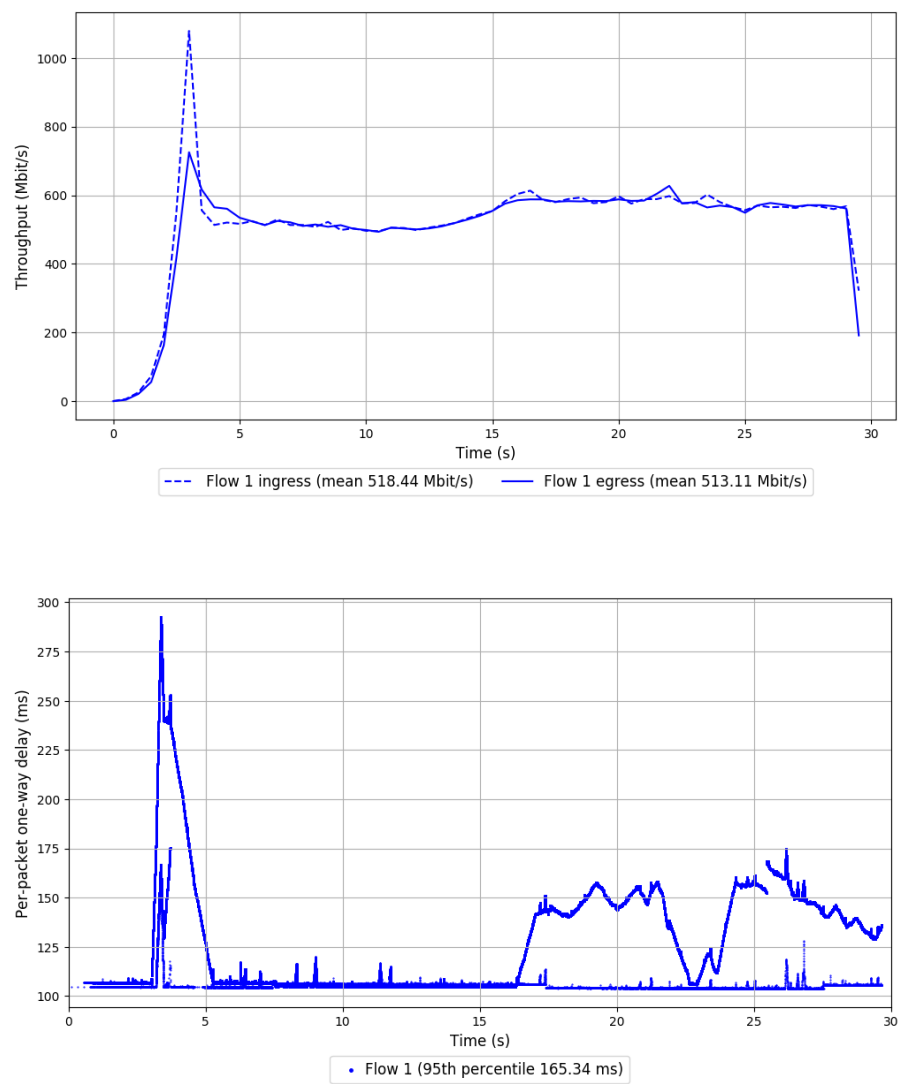
-- Flow 1:

Average throughput: 513.11 Mbit/s

95th percentile per-packet one-way delay: 165.344 ms

Loss rate: 1.77%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-20 06:05:00

End at: 2018-03-20 06:05:30

Below is generated by plot.py at 2018-03-20 11:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 469.29 Mbit/s

95th percentile per-packet one-way delay: 160.015 ms

Loss rate: 1.58%

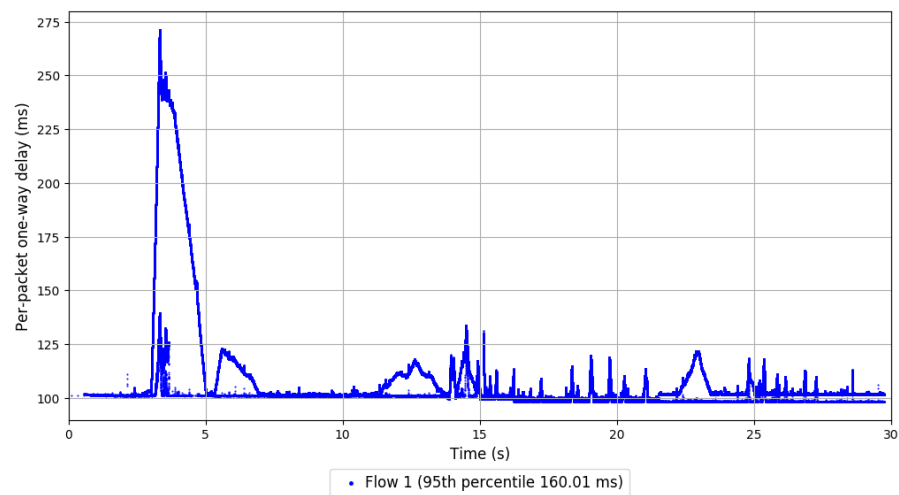
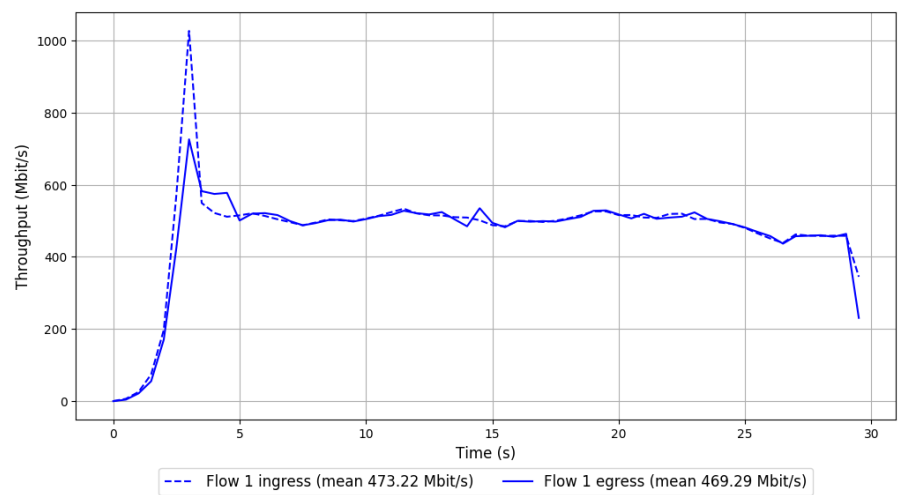
-- Flow 1:

Average throughput: 469.29 Mbit/s

95th percentile per-packet one-way delay: 160.015 ms

Loss rate: 1.58%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

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

End at: 2018-03-20 06:20:42

Below is generated by plot.py at 2018-03-20 11:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 489.02 Mbit/s

95th percentile per-packet one-way delay: 164.701 ms

Loss rate: 2.16%

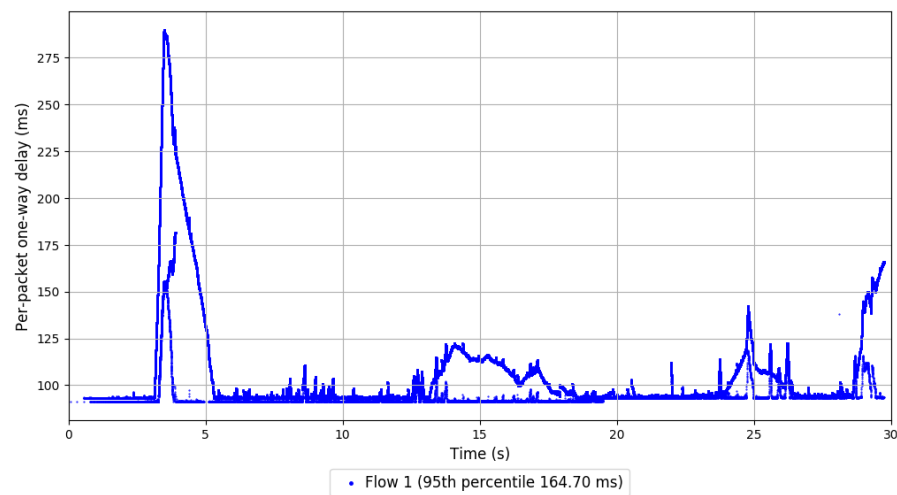
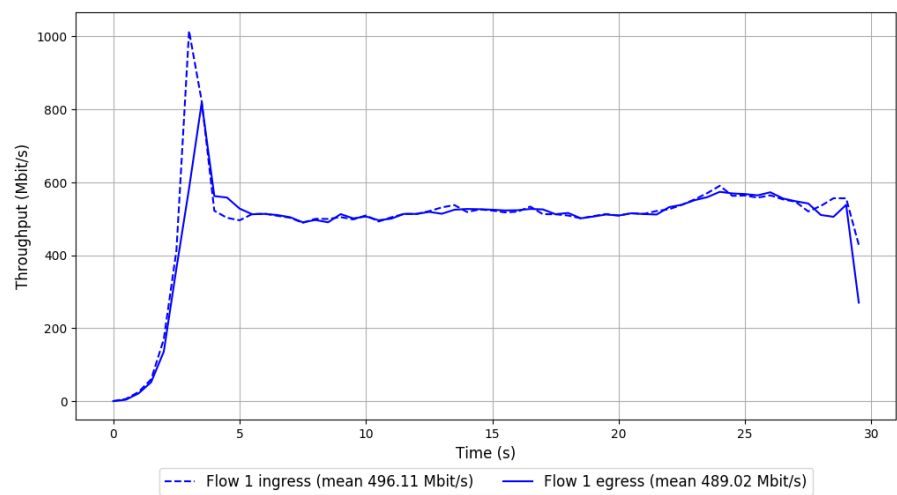
-- Flow 1:

Average throughput: 489.02 Mbit/s

95th percentile per-packet one-way delay: 164.701 ms

Loss rate: 2.16%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-20 06:35:43

End at: 2018-03-20 06:36:13

Below is generated by plot.py at 2018-03-20 11:16:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.95 Mbit/s

95th percentile per-packet one-way delay: 222.741 ms

Loss rate: 2.16%

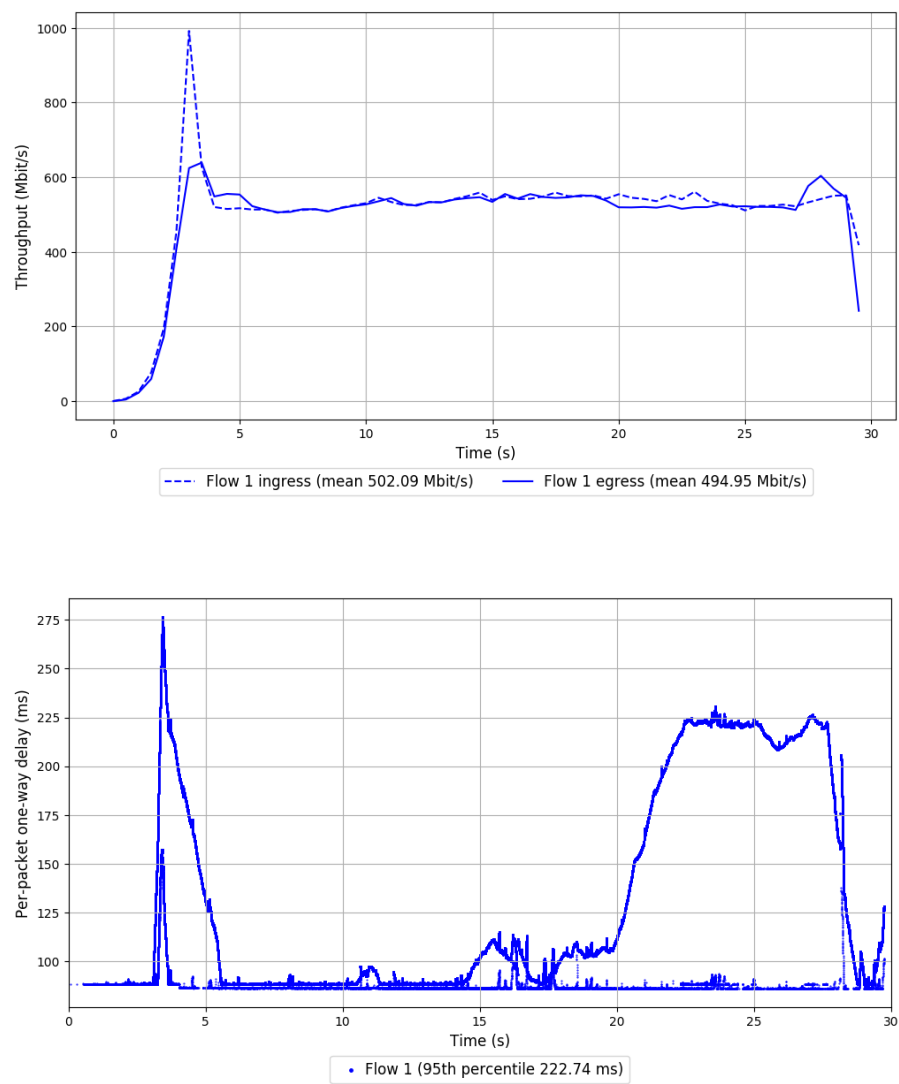
-- Flow 1:

Average throughput: 494.95 Mbit/s

95th percentile per-packet one-way delay: 222.741 ms

Loss rate: 2.16%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-20 06:51:38

End at: 2018-03-20 06:52:08

Below is generated by plot.py at 2018-03-20 11:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.68 Mbit/s

95th percentile per-packet one-way delay: 187.284 ms

Loss rate: 1.50%

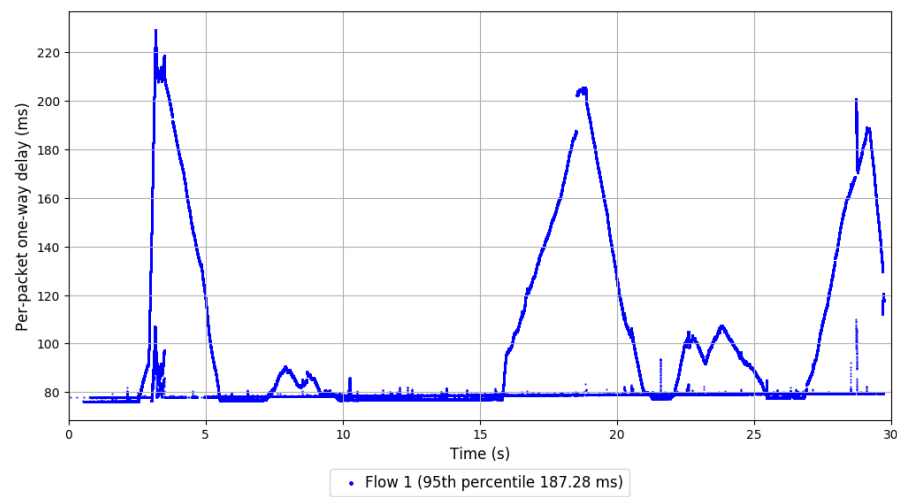
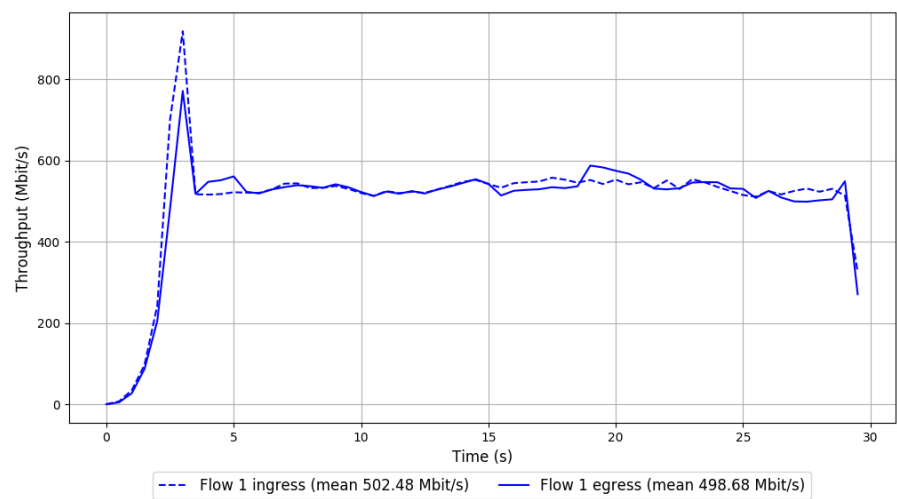
-- Flow 1:

Average throughput: 498.68 Mbit/s

95th percentile per-packet one-way delay: 187.284 ms

Loss rate: 1.50%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-20 07:07:15

End at: 2018-03-20 07:07:45

Below is generated by plot.py at 2018-03-20 11:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.95 Mbit/s

95th percentile per-packet one-way delay: 133.761 ms

Loss rate: 1.62%

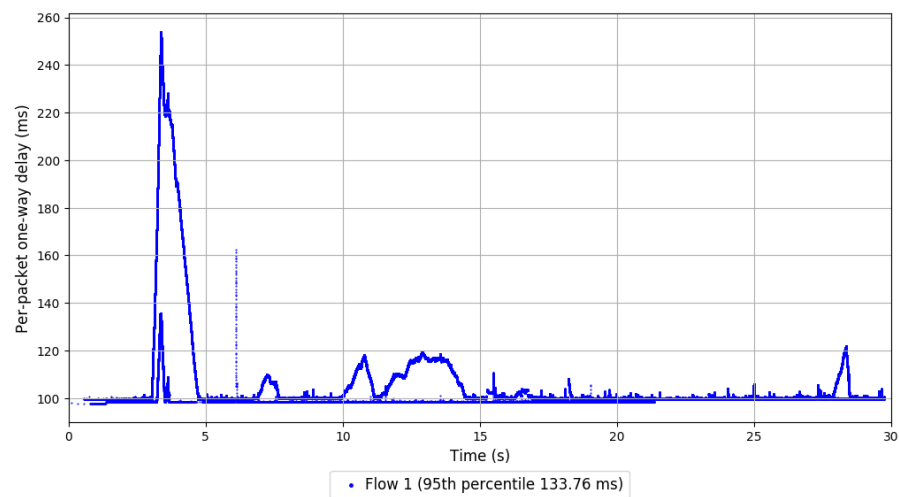
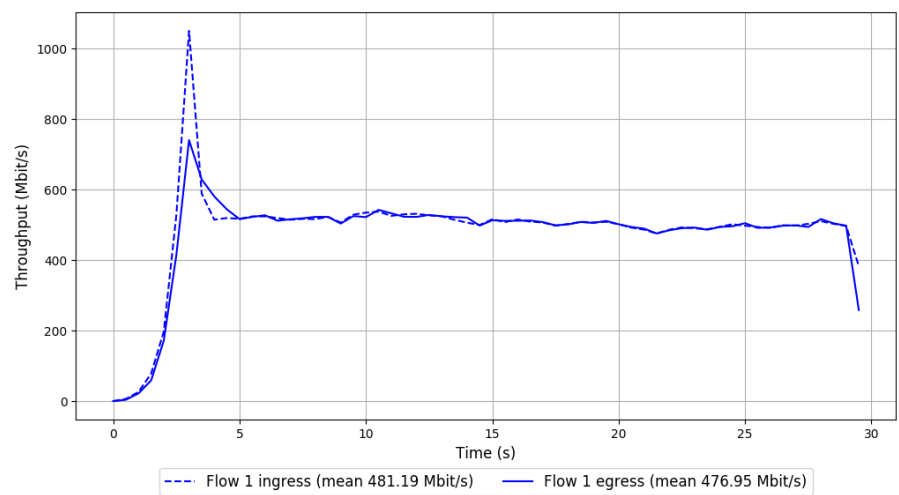
-- Flow 1:

Average throughput: 476.95 Mbit/s

95th percentile per-packet one-way delay: 133.761 ms

Loss rate: 1.62%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-20 07:22:46

End at: 2018-03-20 07:23:16

Below is generated by plot.py at 2018-03-20 11:16:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 486.78 Mbit/s

95th percentile per-packet one-way delay: 156.302 ms

Loss rate: 1.61%

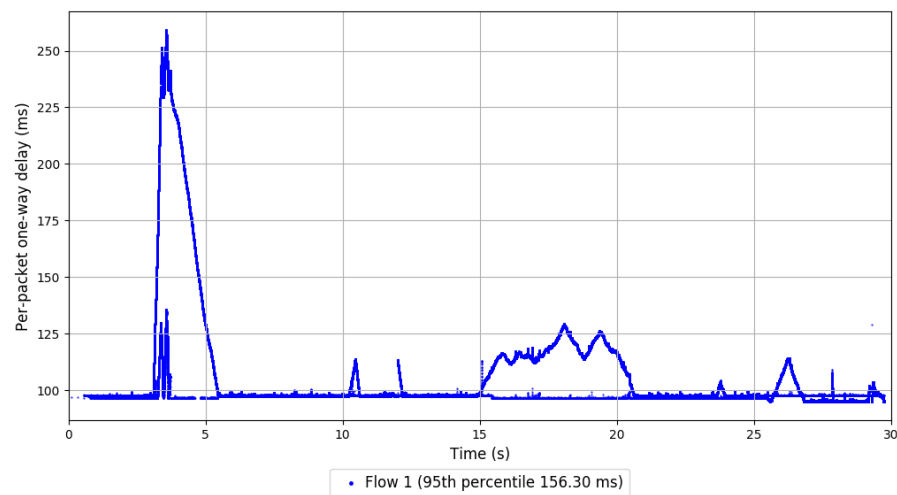
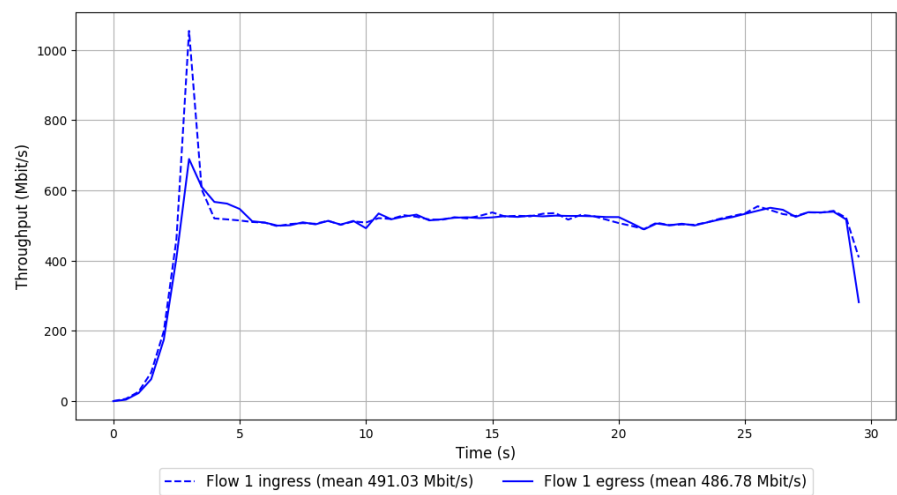
-- Flow 1:

Average throughput: 486.78 Mbit/s

95th percentile per-packet one-way delay: 156.302 ms

Loss rate: 1.61%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-20 07:37:50

End at: 2018-03-20 07:38:20

Below is generated by plot.py at 2018-03-20 11:17:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.40 Mbit/s

95th percentile per-packet one-way delay: 235.508 ms

Loss rate: 1.96%

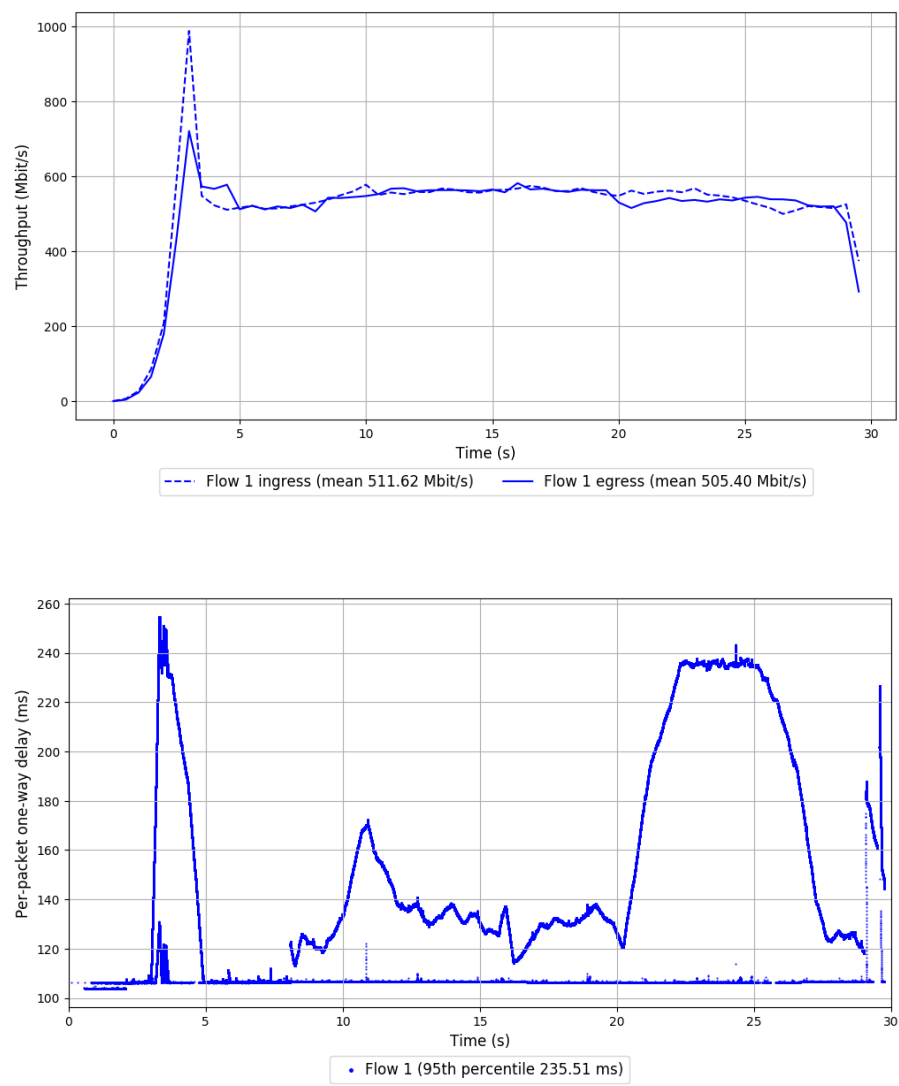
-- Flow 1:

Average throughput: 505.40 Mbit/s

95th percentile per-packet one-way delay: 235.508 ms

Loss rate: 1.96%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-20 07:53:27

End at: 2018-03-20 07:53:57

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.71 Mbit/s

95th percentile per-packet one-way delay: 198.633 ms

Loss rate: 1.70%

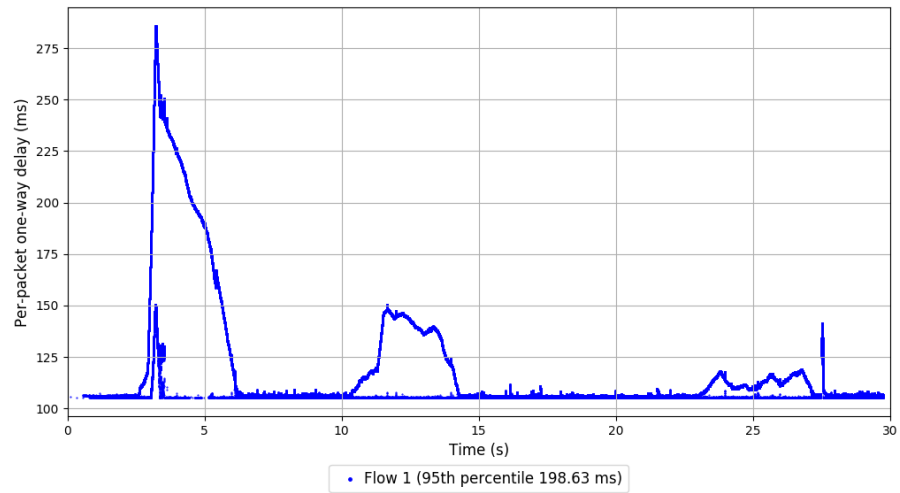
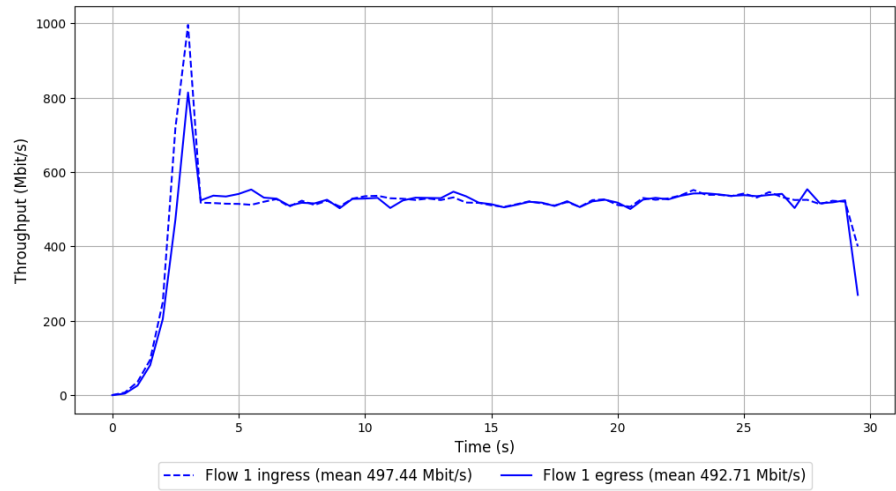
-- Flow 1:

Average throughput: 492.71 Mbit/s

95th percentile per-packet one-way delay: 198.633 ms

Loss rate: 1.70%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-20 08:09:07

End at: 2018-03-20 08:09:37

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 474.35 Mbit/s

95th percentile per-packet one-way delay: 230.199 ms

Loss rate: 1.29%

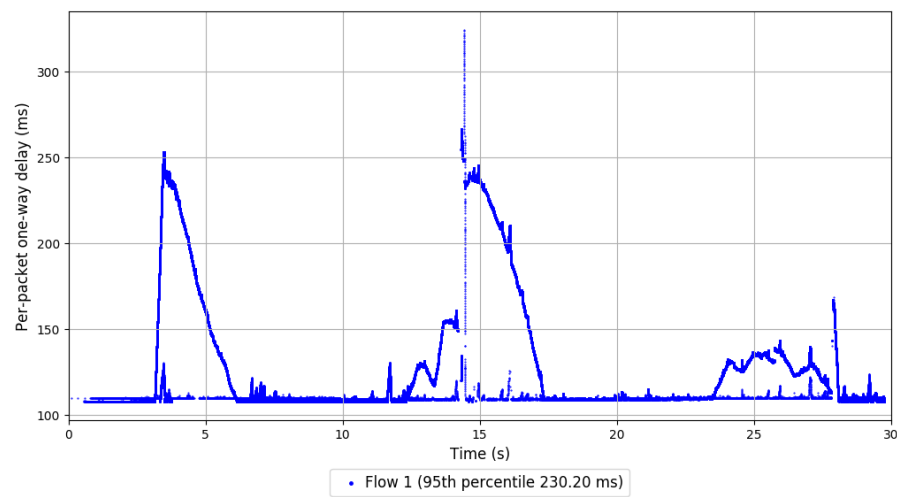
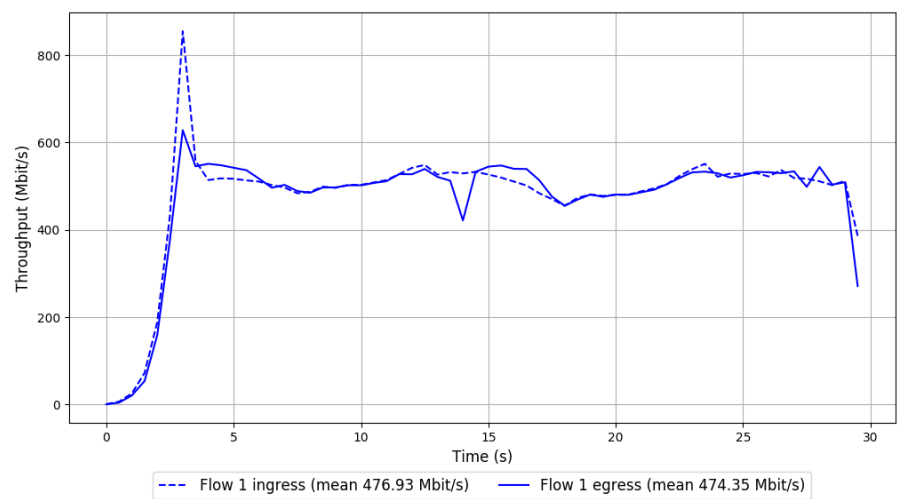
-- Flow 1:

Average throughput: 474.35 Mbit/s

95th percentile per-packet one-way delay: 230.199 ms

Loss rate: 1.29%

Run 10: Report of PCC — Data Link

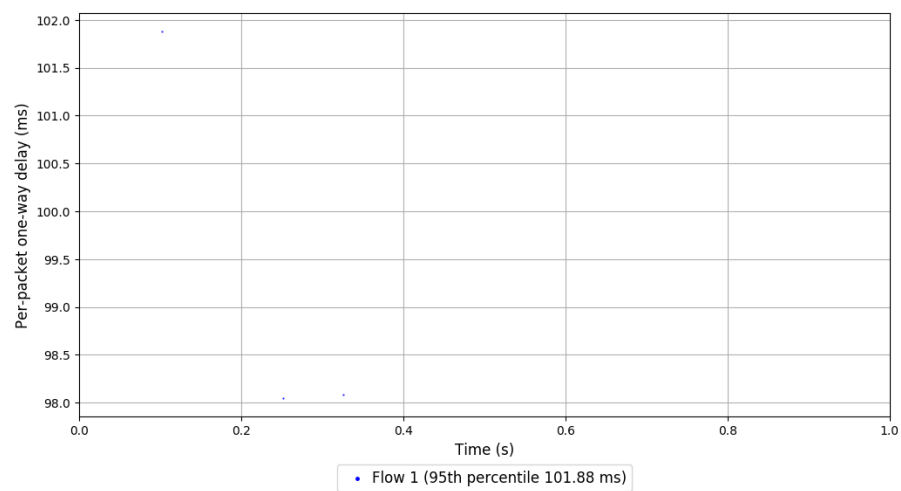
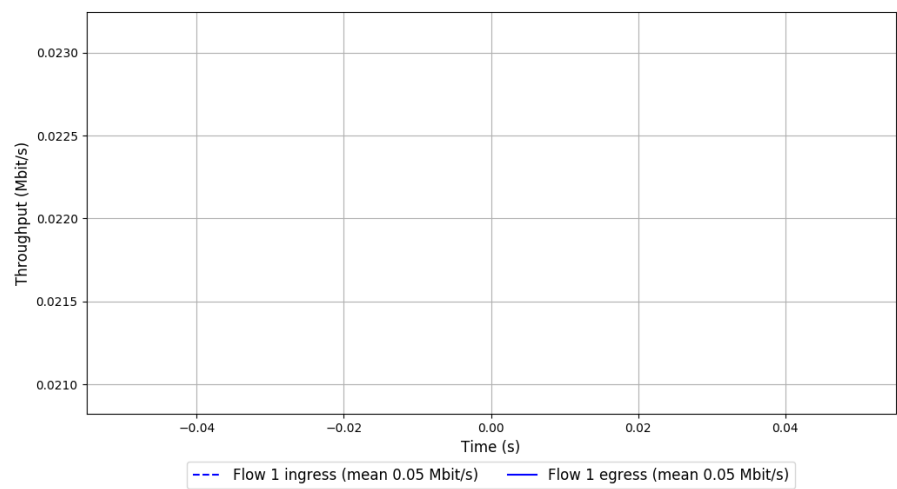


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-20 05:59:43

End at: 2018-03-20 06:00:13

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-20 06:15:16

End at: 2018-03-20 06:15:46

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.75 Mbit/s

95th percentile per-packet one-way delay: 90.474 ms

Loss rate: 0.98%

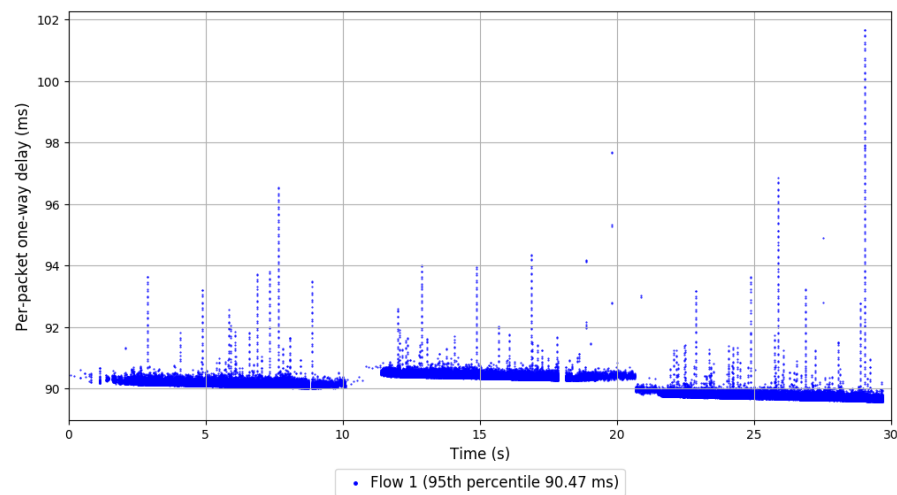
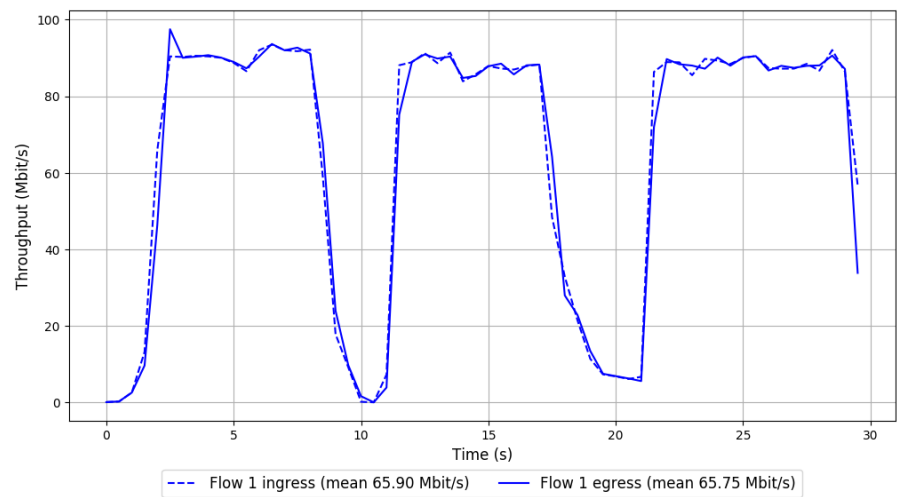
-- Flow 1:

Average throughput: 65.75 Mbit/s

95th percentile per-packet one-way delay: 90.474 ms

Loss rate: 0.98%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-20 06:30:41

End at: 2018-03-20 06:31:11

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 93.070 ms

Loss rate: 1.07%

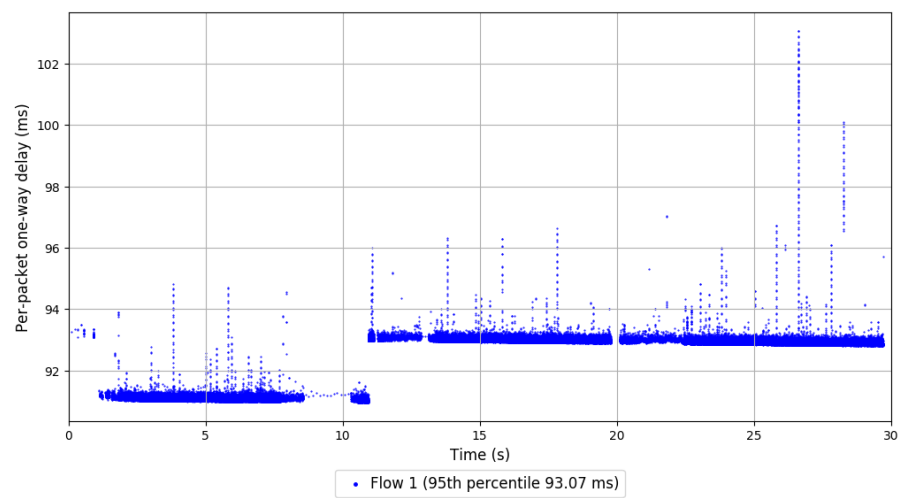
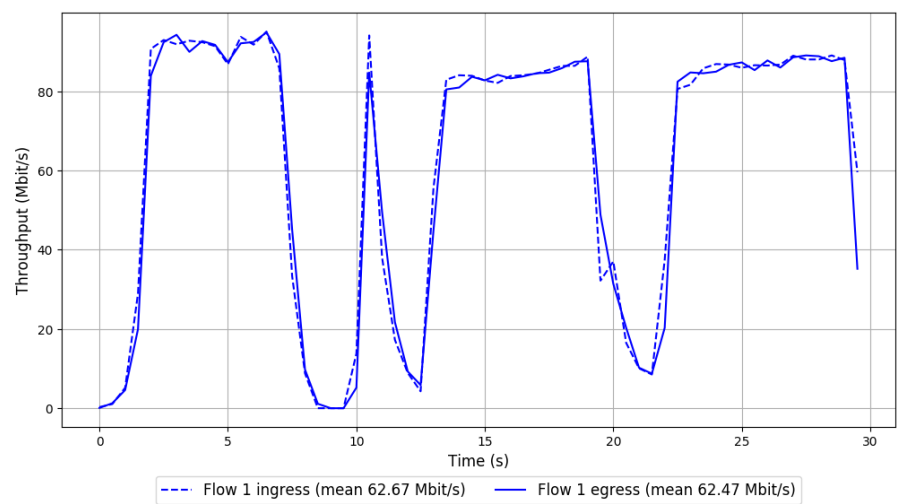
-- Flow 1:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 93.070 ms

Loss rate: 1.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-20 06:46:18

End at: 2018-03-20 06:46:48

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.01 Mbit/s

95th percentile per-packet one-way delay: 80.435 ms

Loss rate: 1.14%

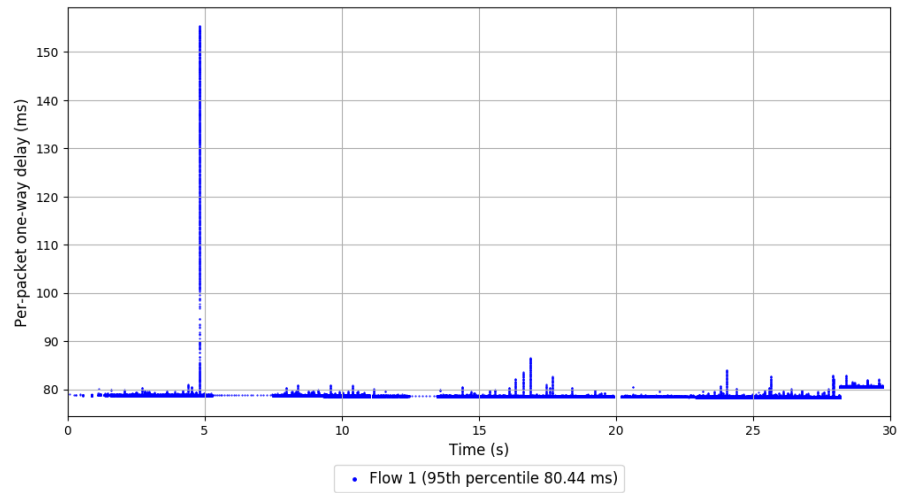
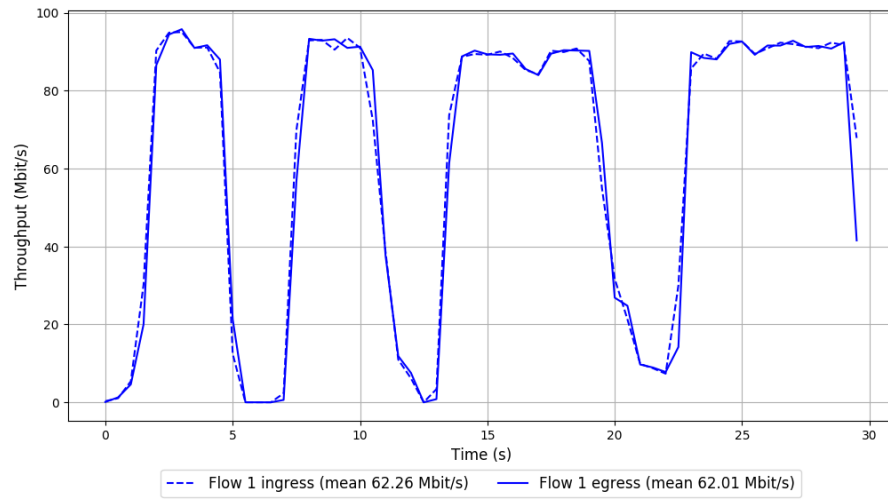
-- Flow 1:

Average throughput: 62.01 Mbit/s

95th percentile per-packet one-way delay: 80.435 ms

Loss rate: 1.14%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-20 07:02:12

End at: 2018-03-20 07:02:42

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.42 Mbit/s

95th percentile per-packet one-way delay: 96.684 ms

Loss rate: 1.04%

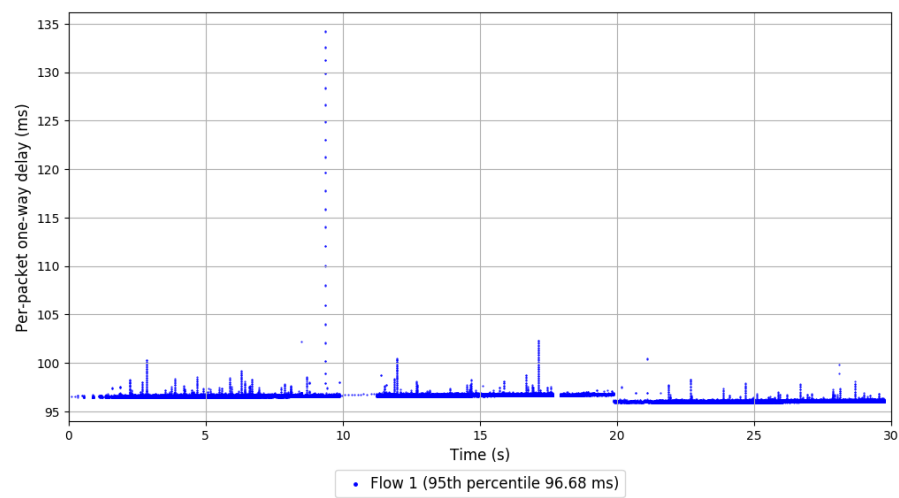
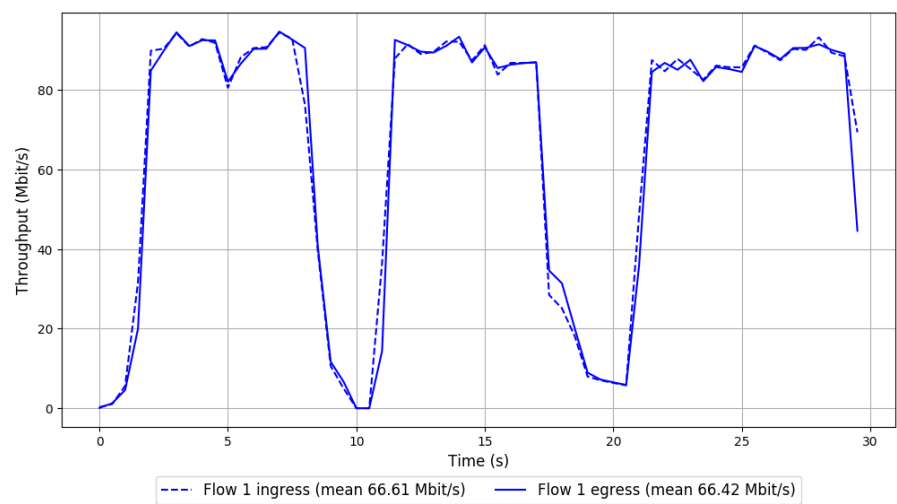
-- Flow 1:

Average throughput: 66.42 Mbit/s

95th percentile per-packet one-way delay: 96.684 ms

Loss rate: 1.04%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-20 07:17:29

End at: 2018-03-20 07:17:59

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 99.515 ms

Loss rate: 0.94%

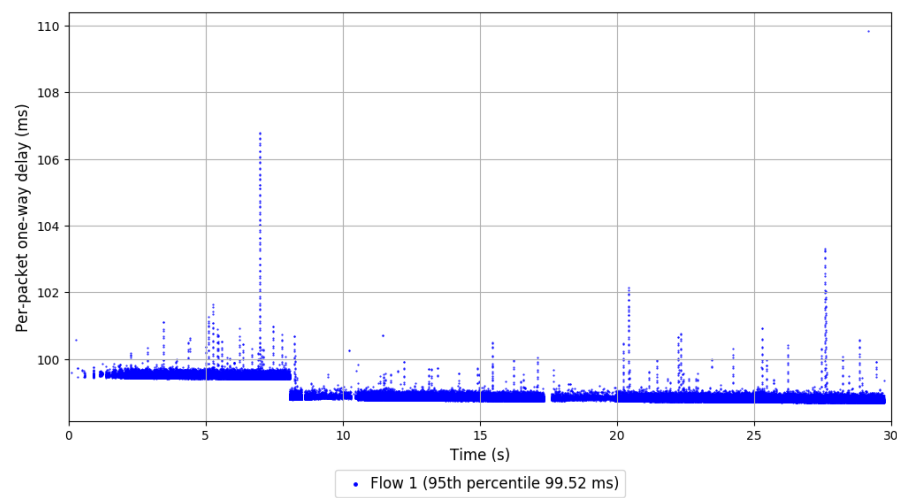
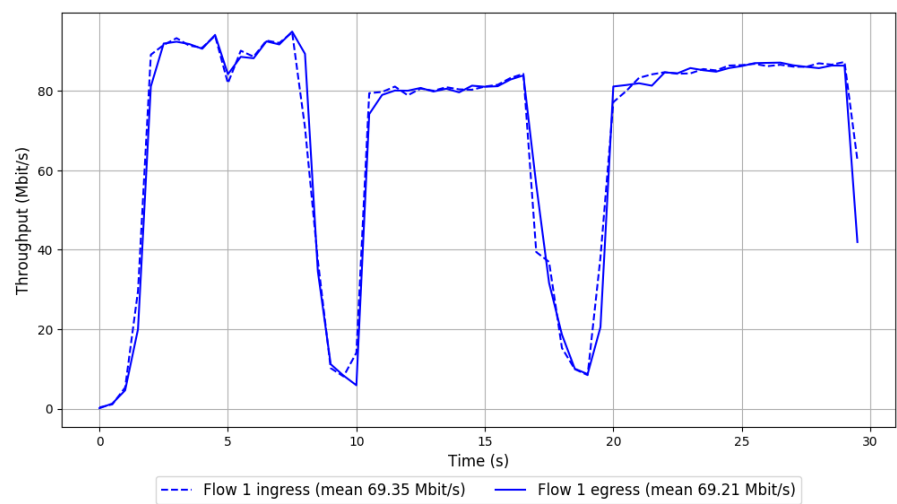
-- Flow 1:

Average throughput: 69.21 Mbit/s

95th percentile per-packet one-way delay: 99.515 ms

Loss rate: 0.94%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-20 07:32:32

End at: 2018-03-20 07:33:02

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 104.414 ms

Loss rate: 0.93%

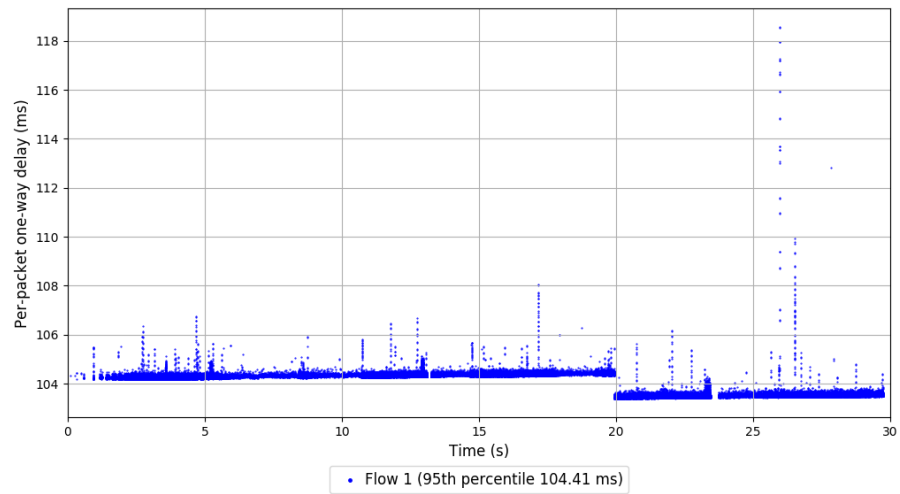
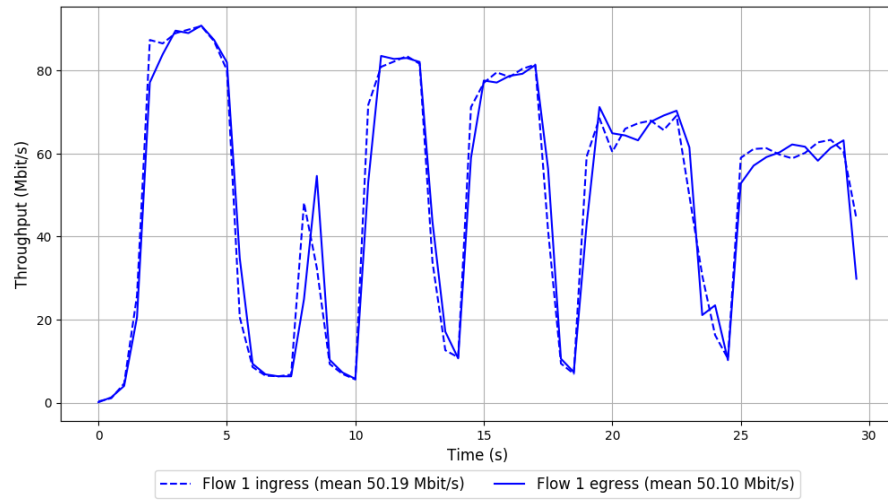
-- Flow 1:

Average throughput: 50.10 Mbit/s

95th percentile per-packet one-way delay: 104.414 ms

Loss rate: 0.93%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-20 07:48:17

End at: 2018-03-20 07:48:47

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 106.567 ms

Loss rate: 1.06%

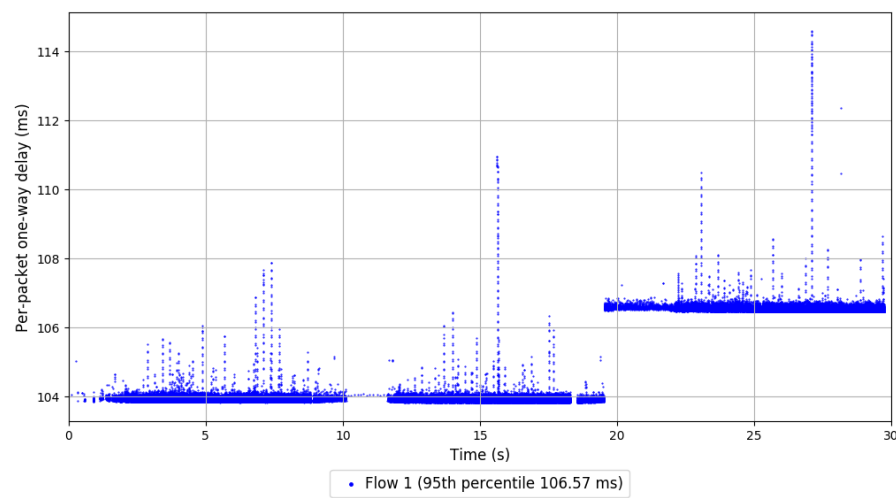
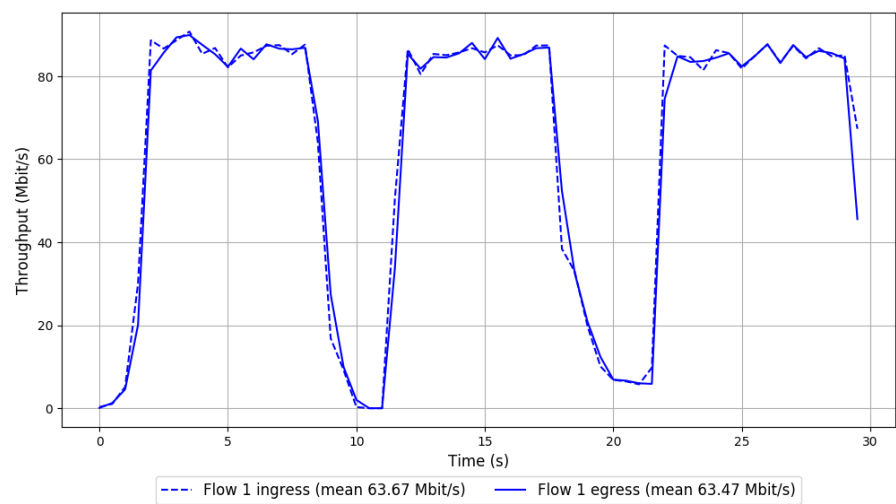
-- Flow 1:

Average throughput: 63.47 Mbit/s

95th percentile per-packet one-way delay: 106.567 ms

Loss rate: 1.06%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-20 08:03:51

End at: 2018-03-20 08:04:21

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.70 Mbit/s

95th percentile per-packet one-way delay: 107.366 ms

Loss rate: 0.11%

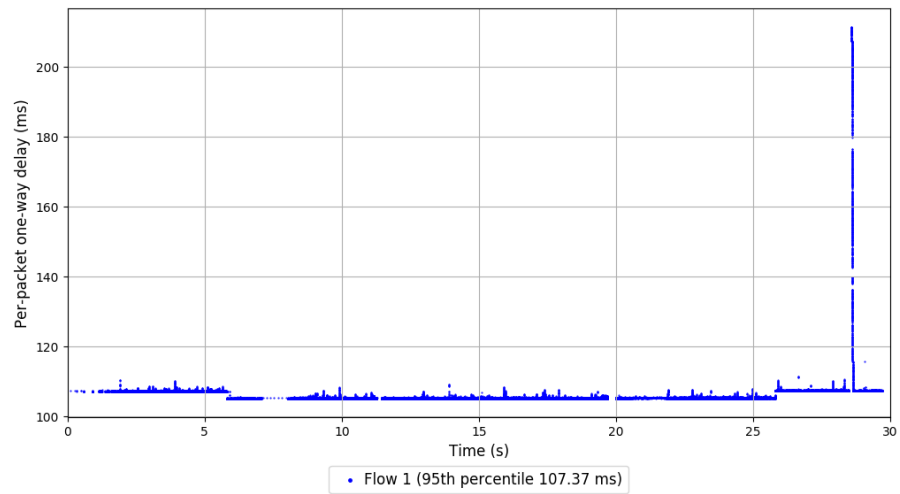
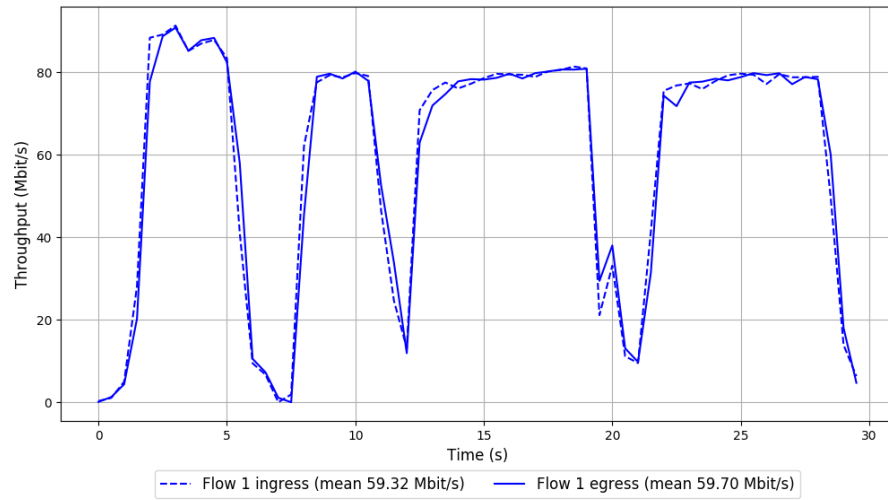
-- Flow 1:

Average throughput: 59.70 Mbit/s

95th percentile per-packet one-way delay: 107.366 ms

Loss rate: 0.11%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-20 08:19:31

End at: 2018-03-20 08:20:01

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 111.293 ms

Loss rate: 0.99%

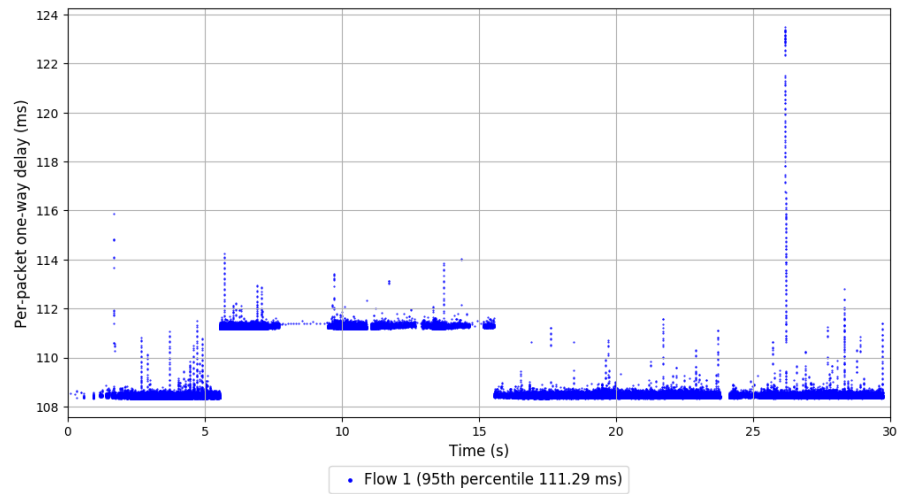
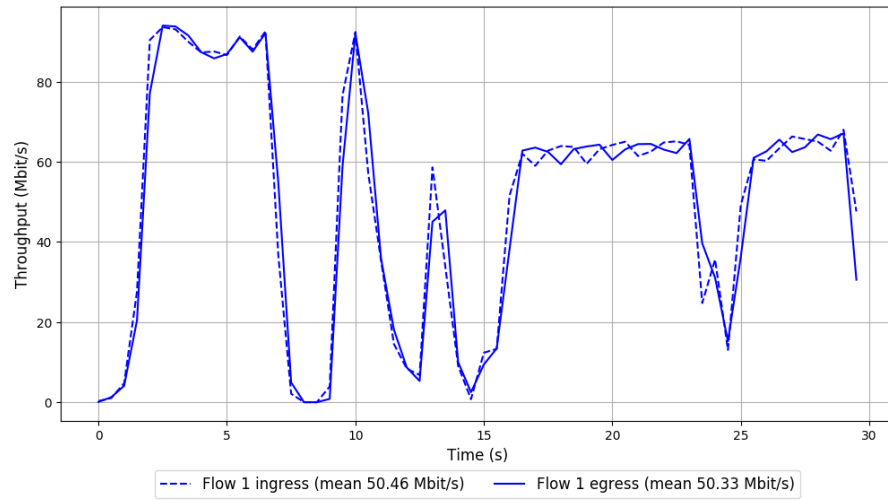
-- Flow 1:

Average throughput: 50.33 Mbit/s

95th percentile per-packet one-way delay: 111.293 ms

Loss rate: 0.99%

Run 10: Report of QUIC Cubic — Data Link

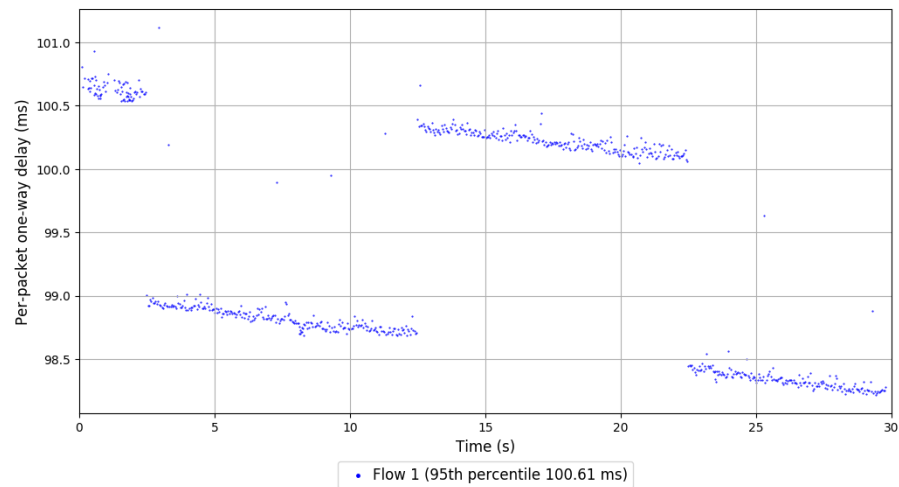
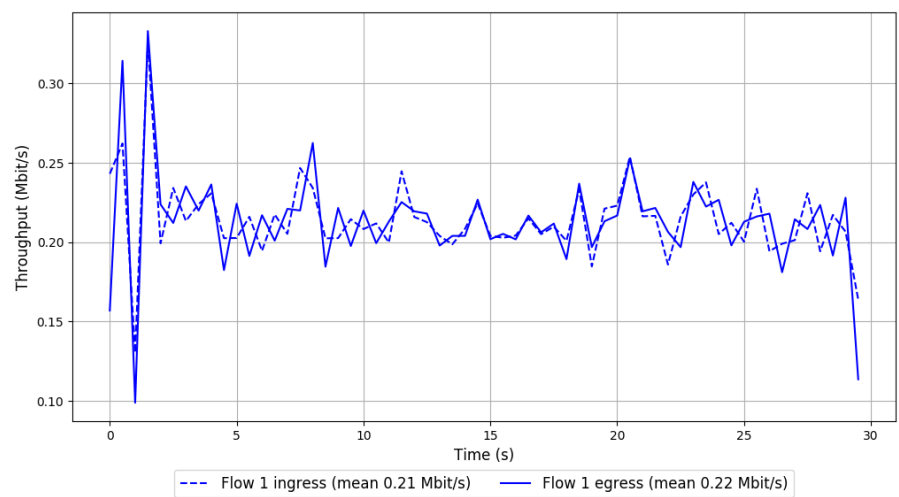


```
Run 1: Statistics of SCReAM

Start at: 2018-03-20 05:58:20
End at: 2018-03-20 05:58:50

# Below is generated by plot.py at 2018-03-20 11:24:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.614 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 100.614 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-20 06:13:36

End at: 2018-03-20 06:14:06

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 92.628 ms

Loss rate: 0.64%

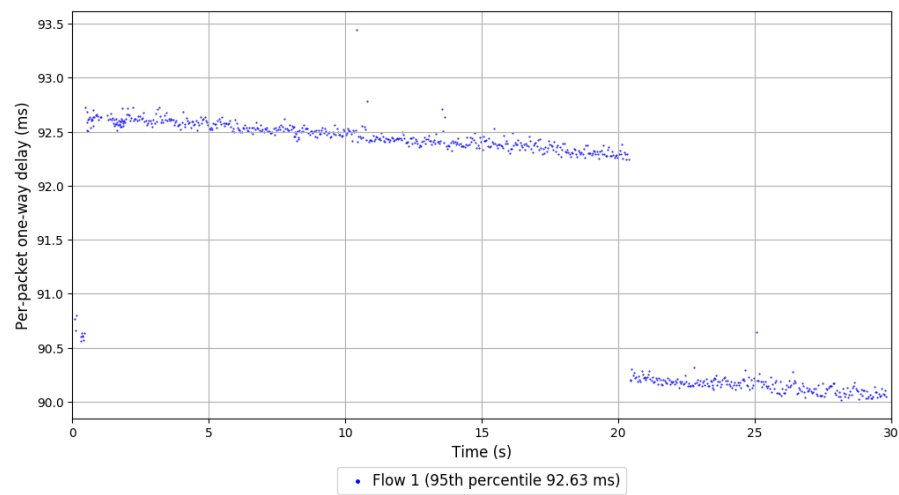
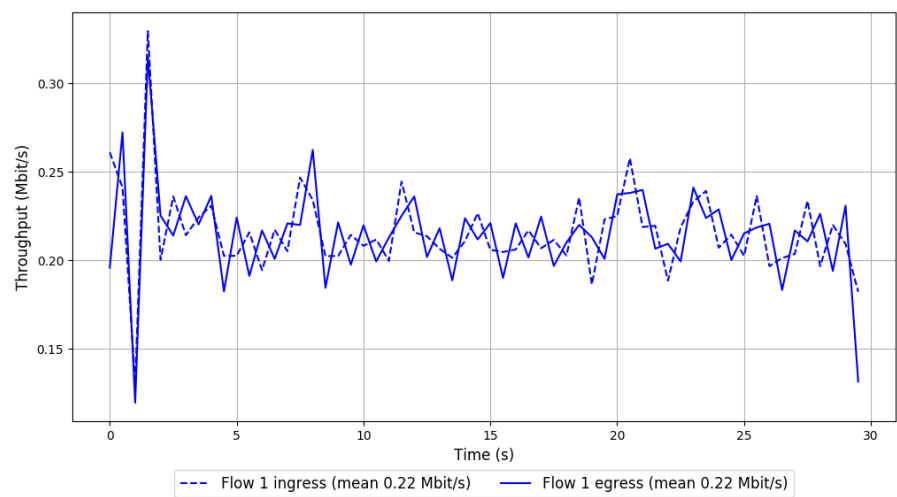
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 92.628 ms

Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-20 06:29:05

End at: 2018-03-20 06:29:35

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 94.334 ms

Loss rate: 0.89%

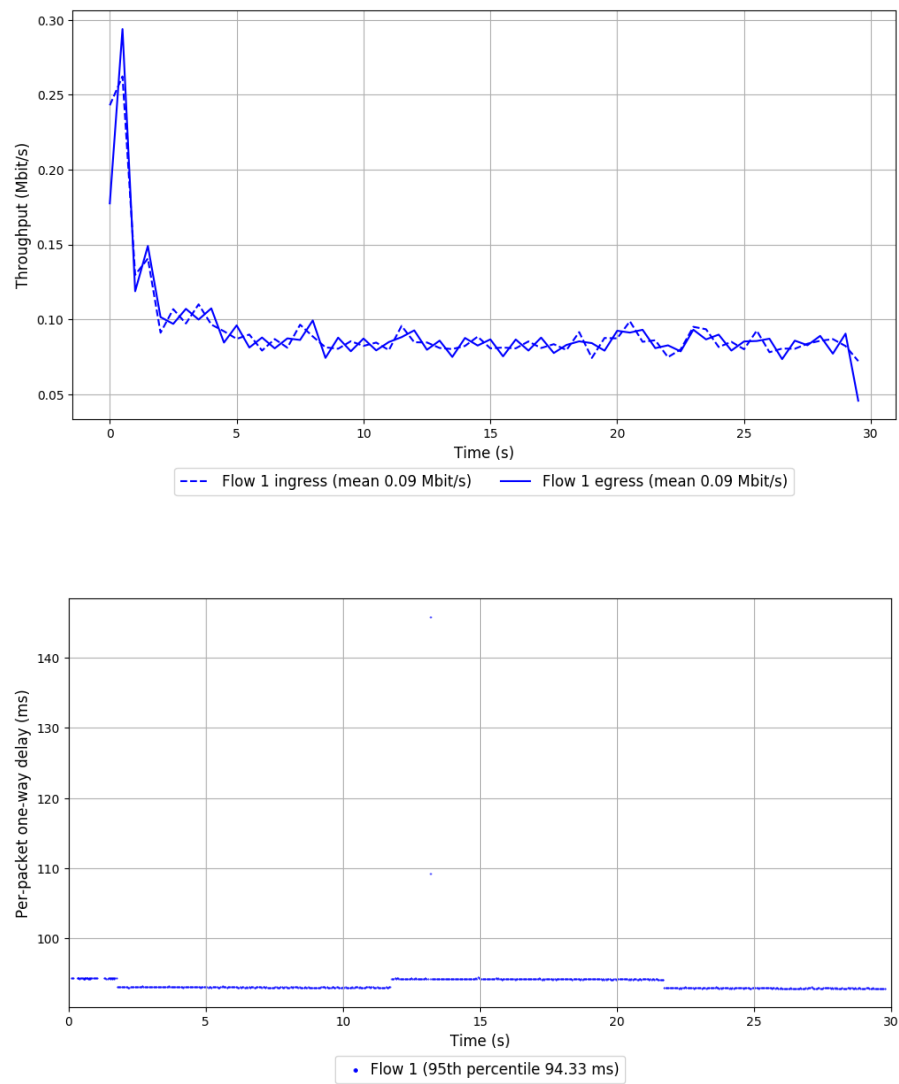
-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 94.334 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-20 06:44:37

End at: 2018-03-20 06:45:07

Below is generated by plot.py at 2018-03-20 11:24:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 82.737 ms

Loss rate: 0.77%

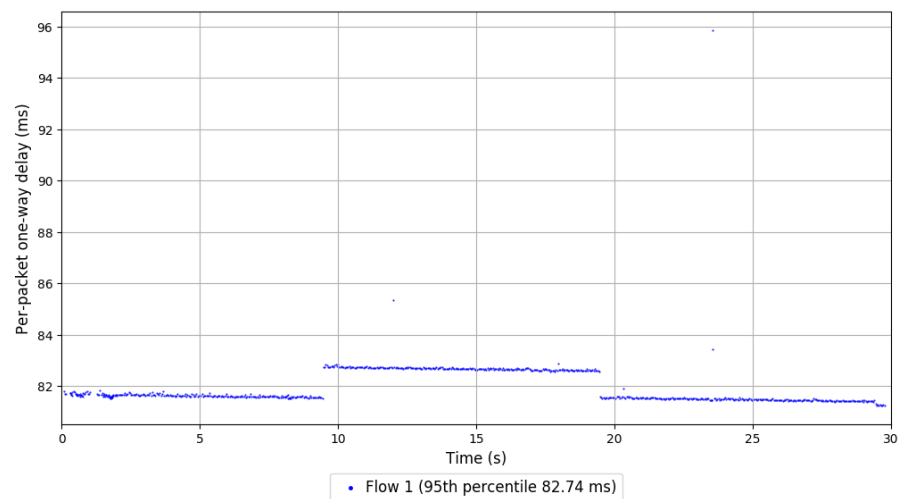
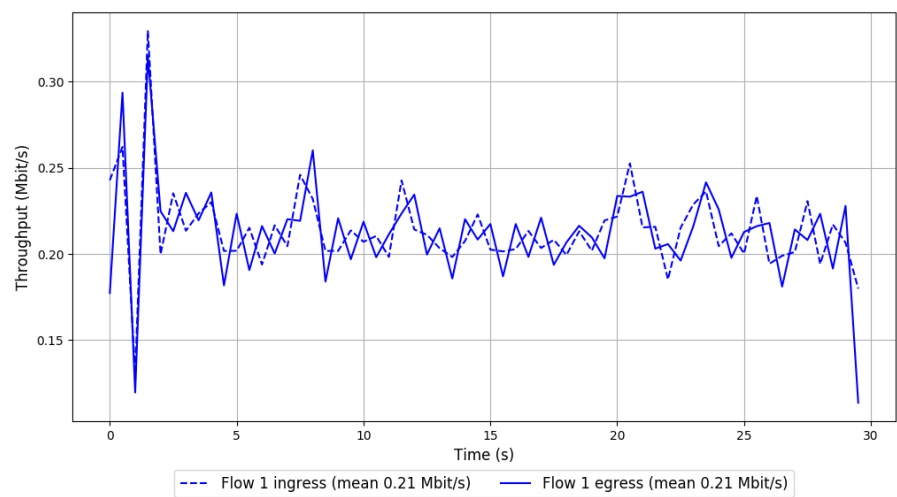
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 82.737 ms

Loss rate: 0.77%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-20 07:00:32

End at: 2018-03-20 07:01:02

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 94.570 ms

Loss rate: 0.61%

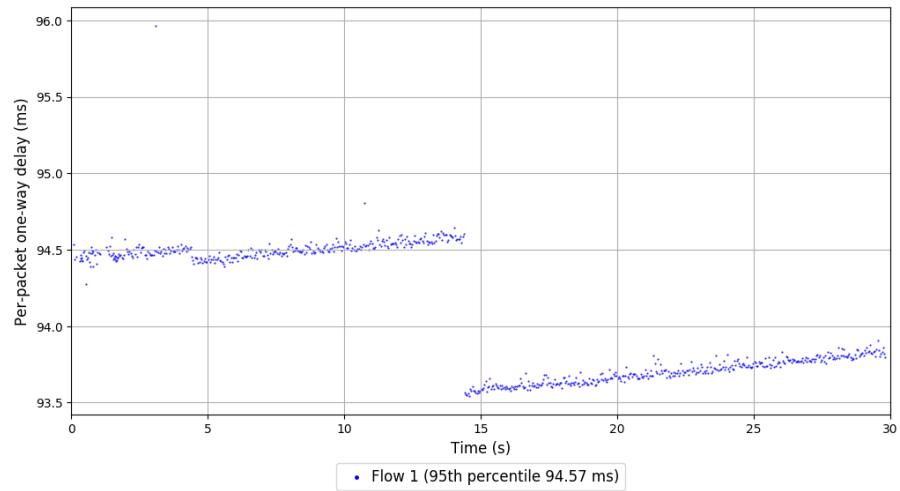
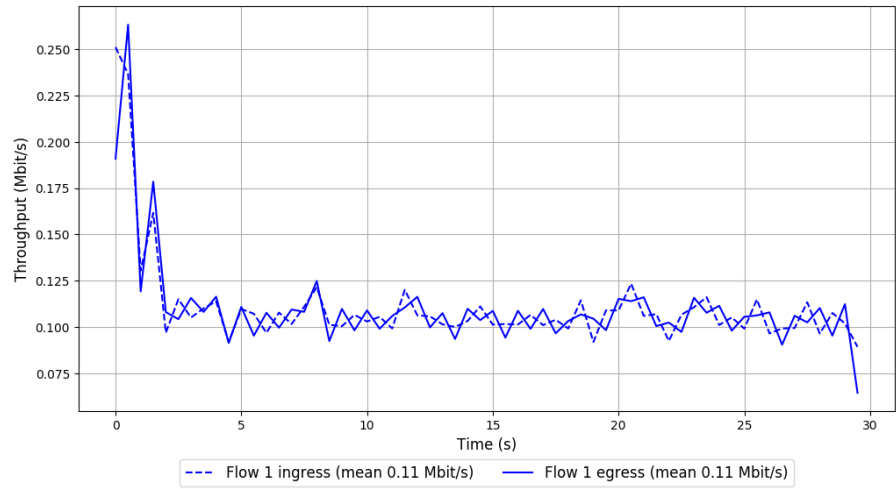
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 94.570 ms

Loss rate: 0.61%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-20 07:15:57

End at: 2018-03-20 07:16:27

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 99.419 ms

Loss rate: 0.63%

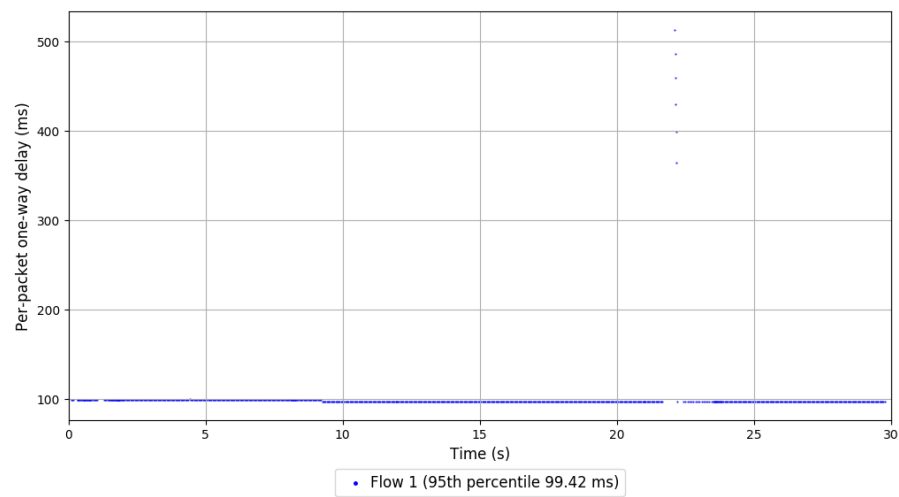
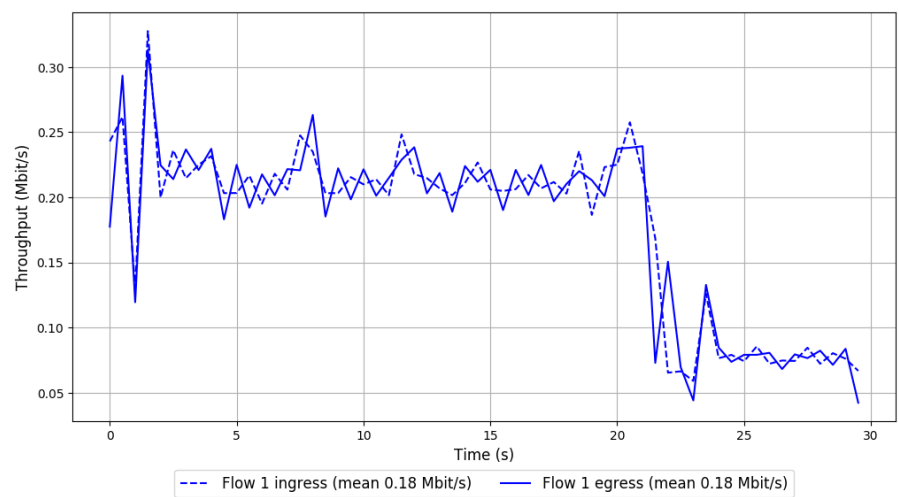
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 99.419 ms

Loss rate: 0.63%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-20 07:31:09

End at: 2018-03-20 07:31:39

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 103.894 ms

Loss rate: 0.76%

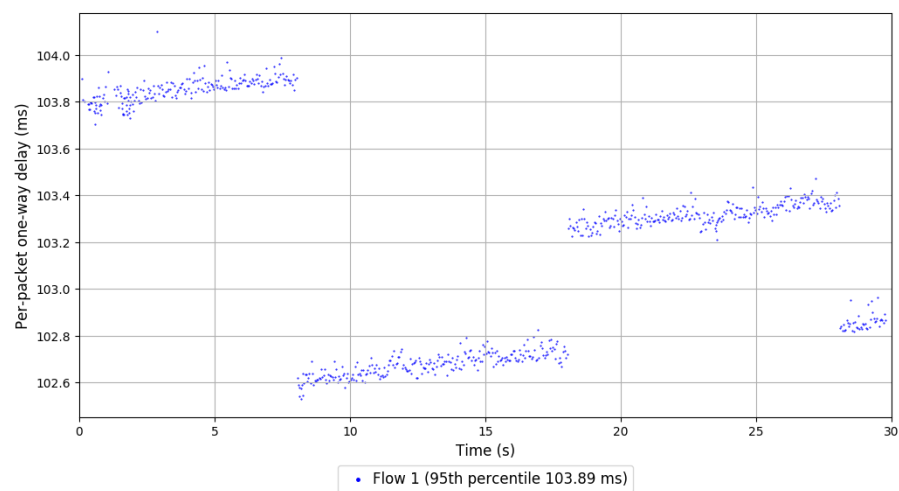
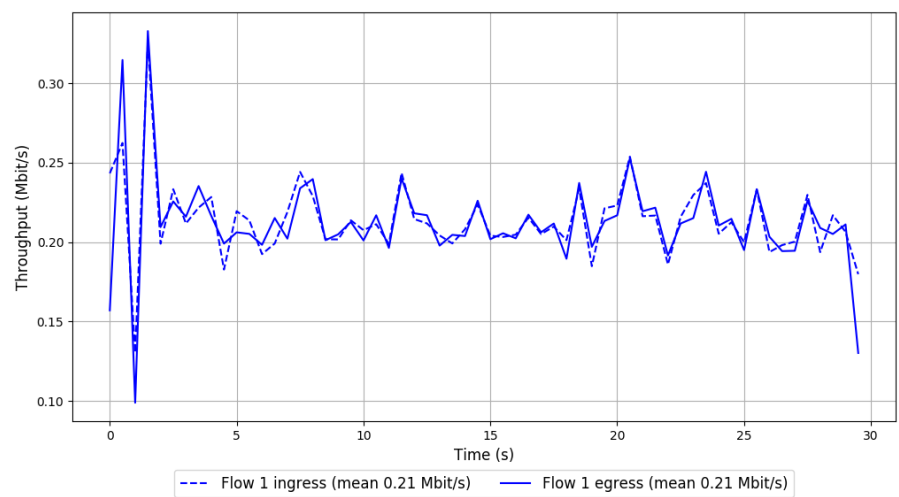
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 103.894 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-20 07:46:40

End at: 2018-03-20 07:47:10

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 107.358 ms

Loss rate: 0.77%

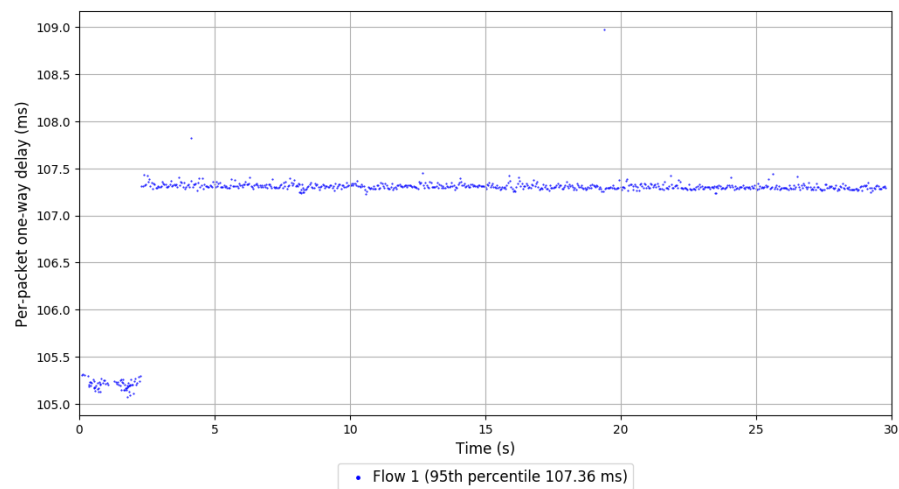
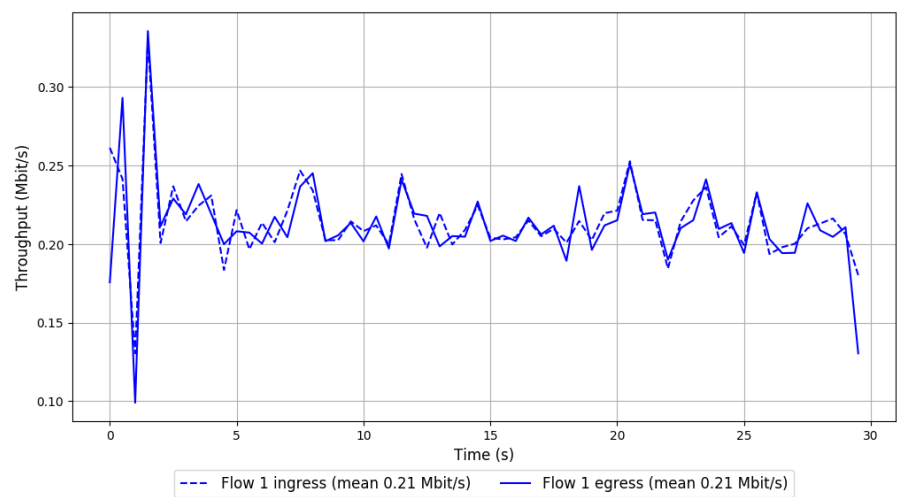
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 107.358 ms

Loss rate: 0.77%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-20 08:02:15

End at: 2018-03-20 08:02:45

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.704 ms

Loss rate: 0.76%

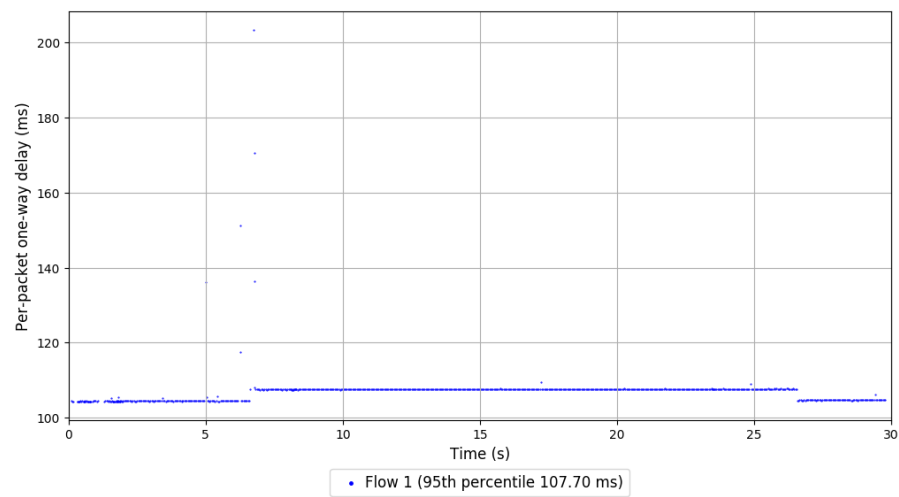
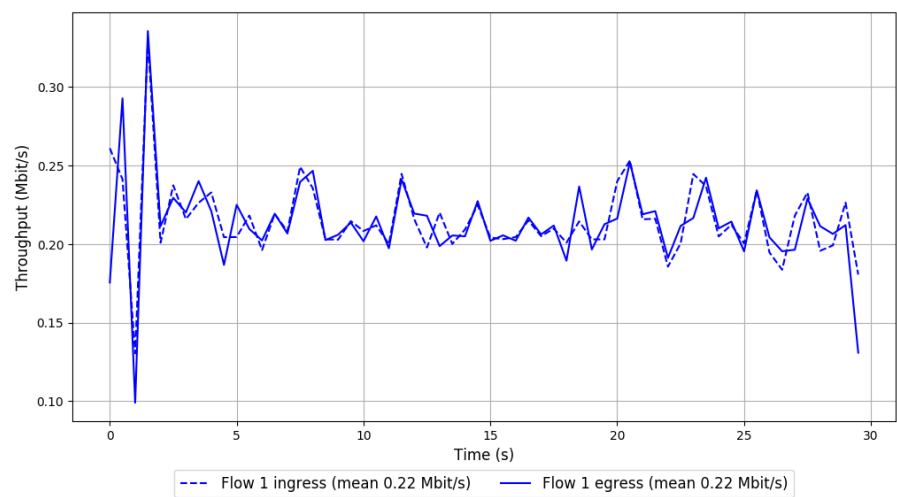
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.704 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-20 08:17:58

End at: 2018-03-20 08:18:28

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.458 ms

Loss rate: 0.76%

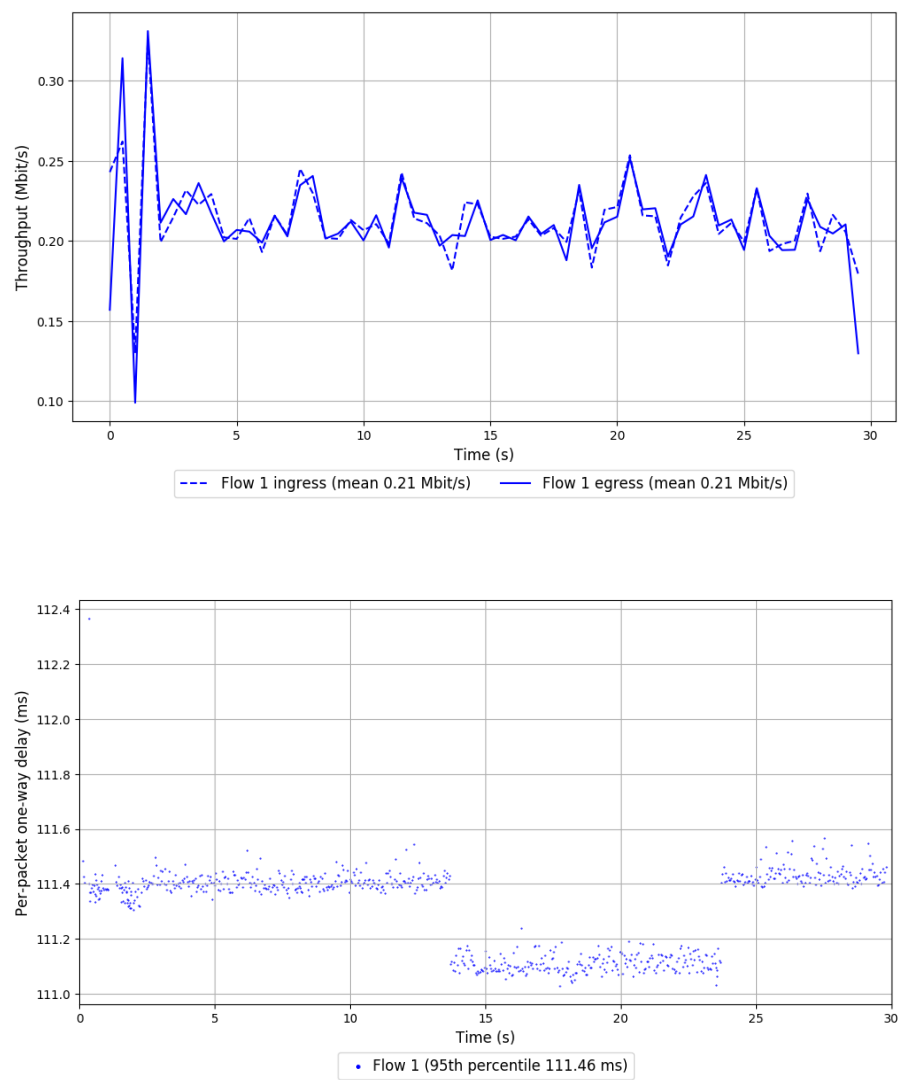
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.458 ms

Loss rate: 0.76%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-03-20 05:46:46

End at: 2018-03-20 05:47:16

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 106.772 ms

Loss rate: 1.25%

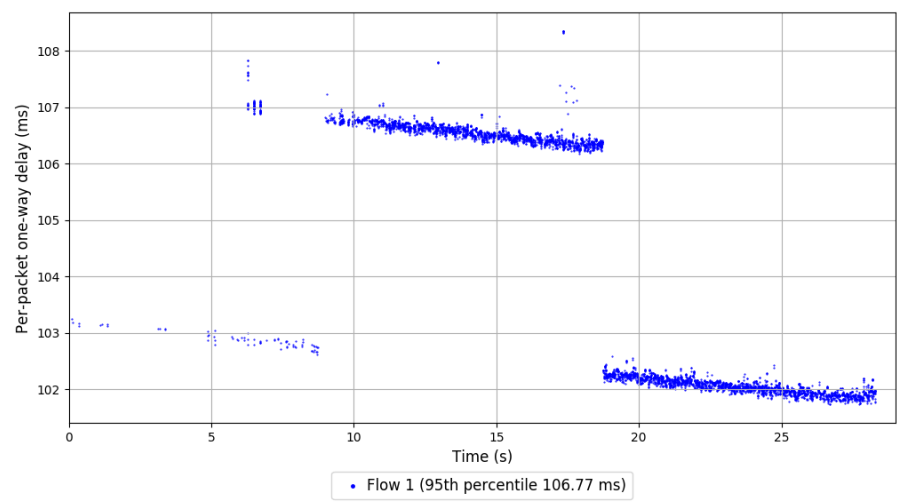
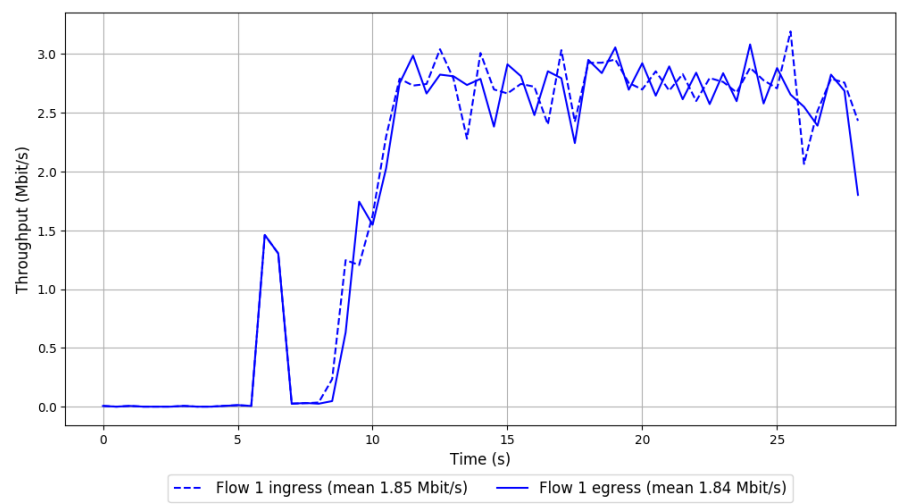
-- Flow 1:

Average throughput: 1.84 Mbit/s

95th percentile per-packet one-way delay: 106.772 ms

Loss rate: 1.25%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-20 06:02:04

End at: 2018-03-20 06:02:34

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 101.454 ms

Loss rate: 0.75%

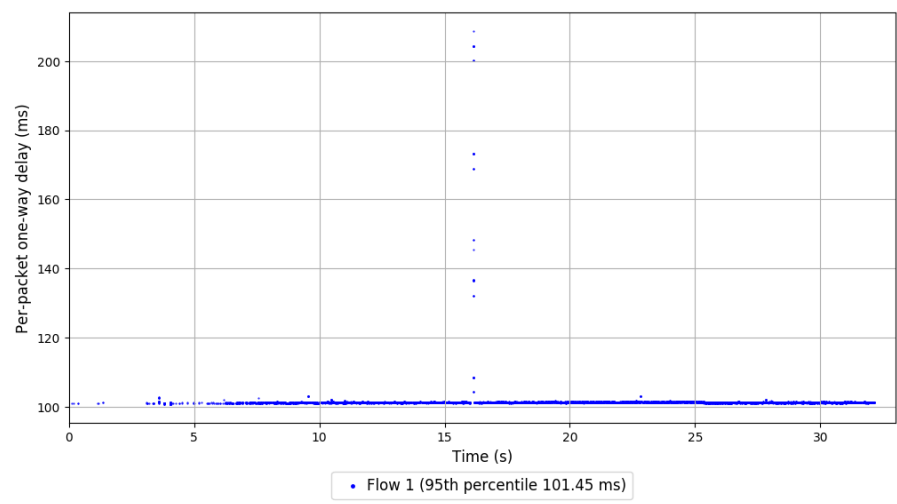
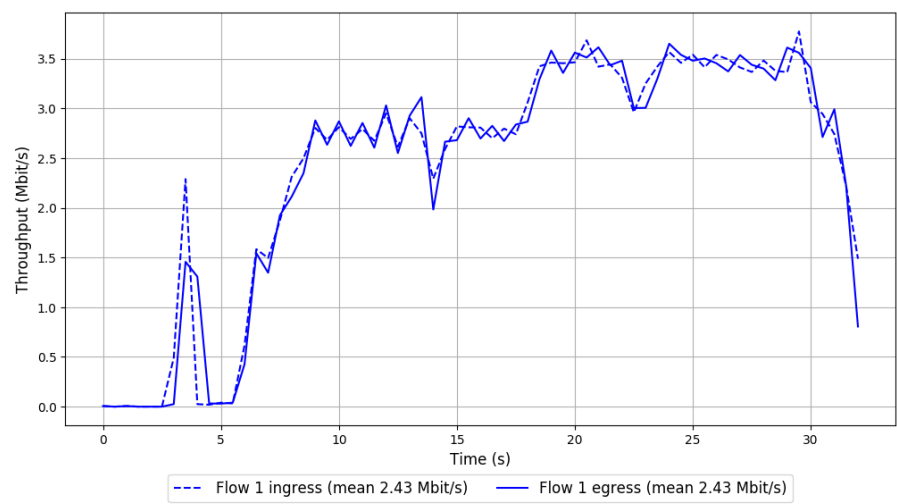
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 101.454 ms

Loss rate: 0.75%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-20 06:17:41

End at: 2018-03-20 06:18:12

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 90.281 ms

Loss rate: 0.77%

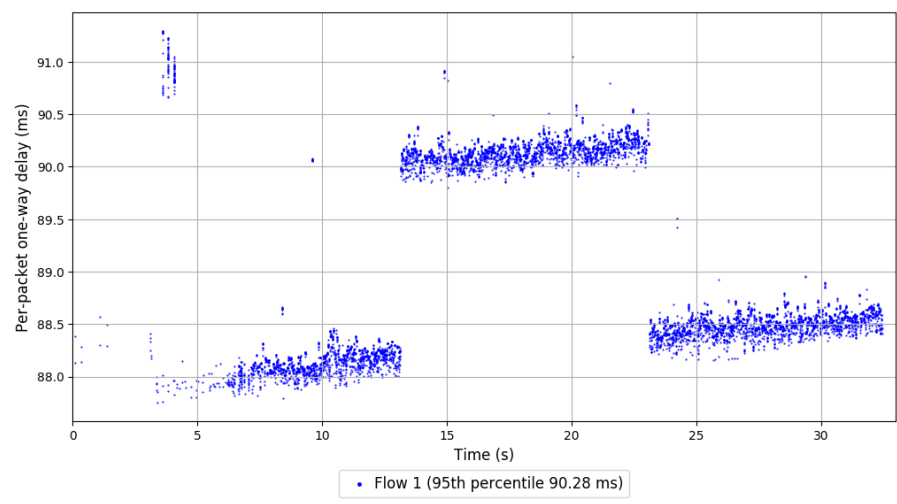
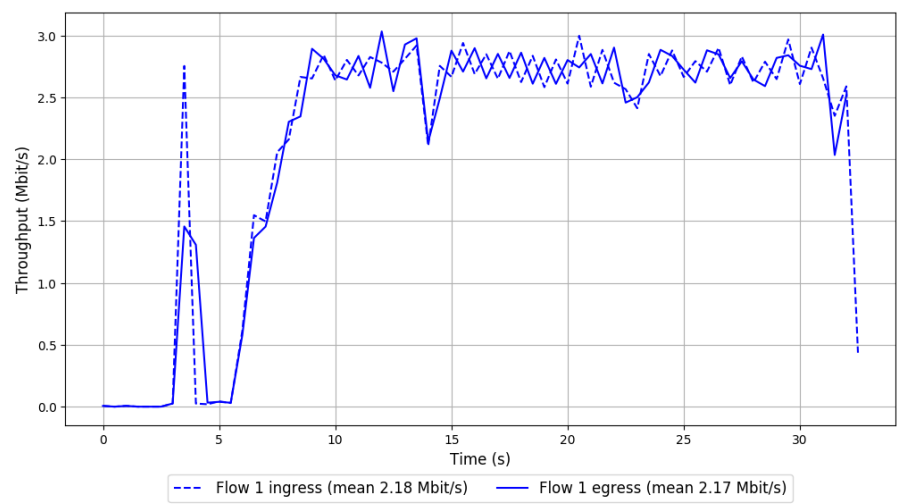
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 90.281 ms

Loss rate: 0.77%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-20 06:33:07

End at: 2018-03-20 06:33:37

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 89.798 ms

Loss rate: 0.92%

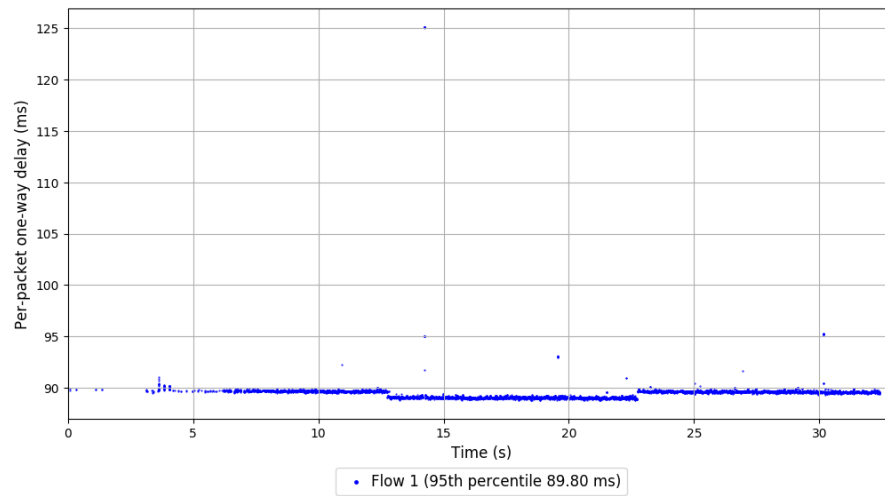
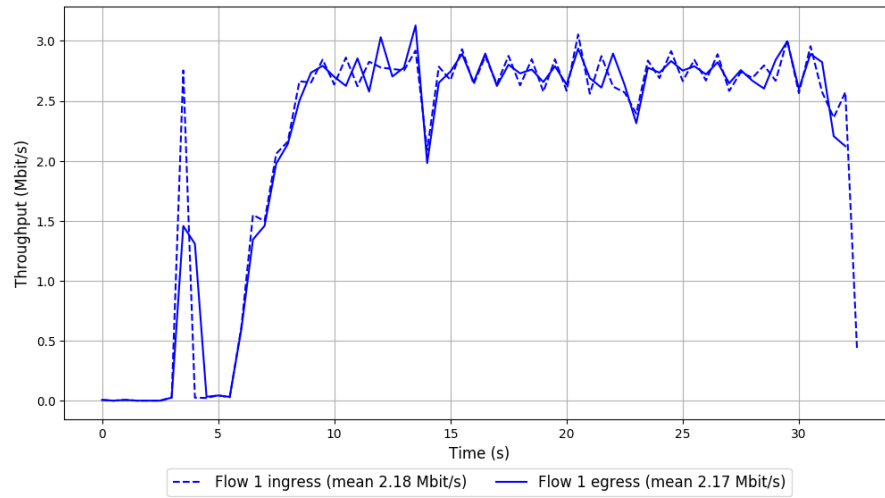
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 89.798 ms

Loss rate: 0.92%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-20 06:48:43

End at: 2018-03-20 06:49:13

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 76.744 ms

Loss rate: 0.78%

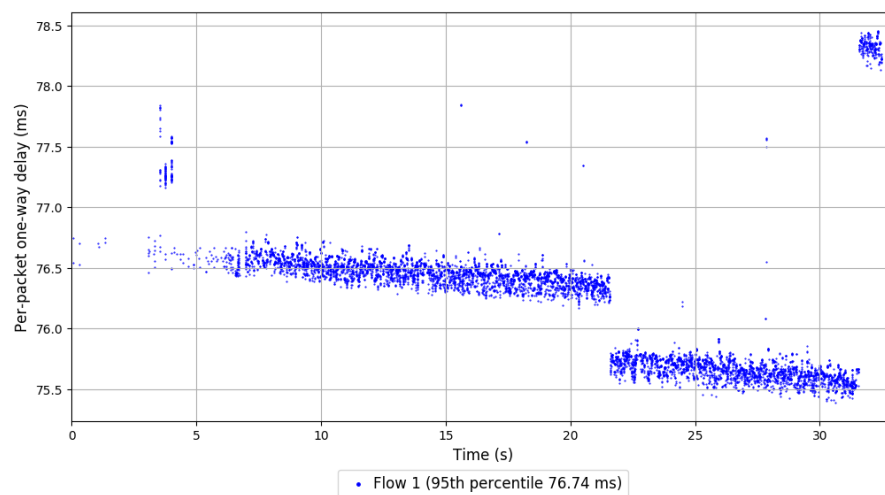
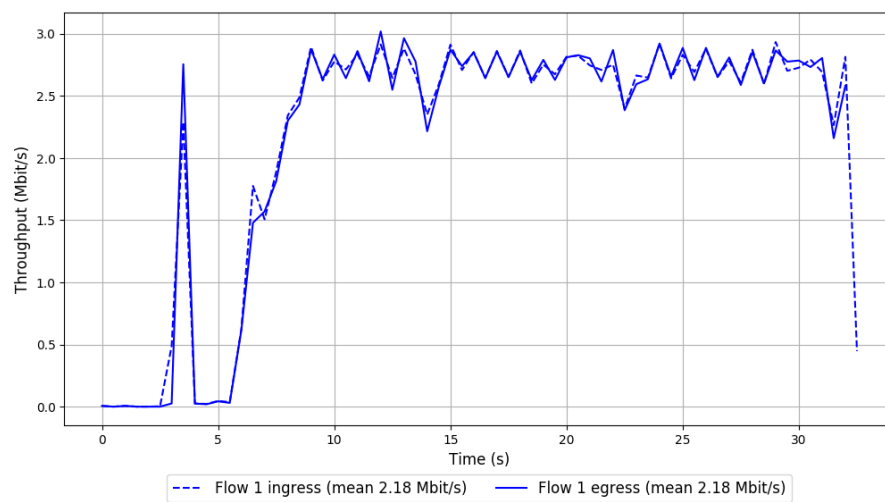
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 76.744 ms

Loss rate: 0.78%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-20 07:04:37

End at: 2018-03-20 07:05:07

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 99.168 ms

Loss rate: 0.88%

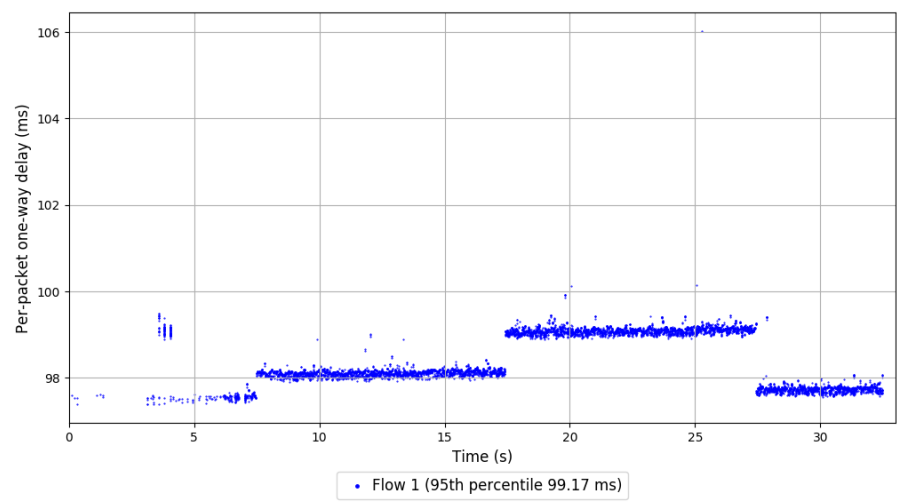
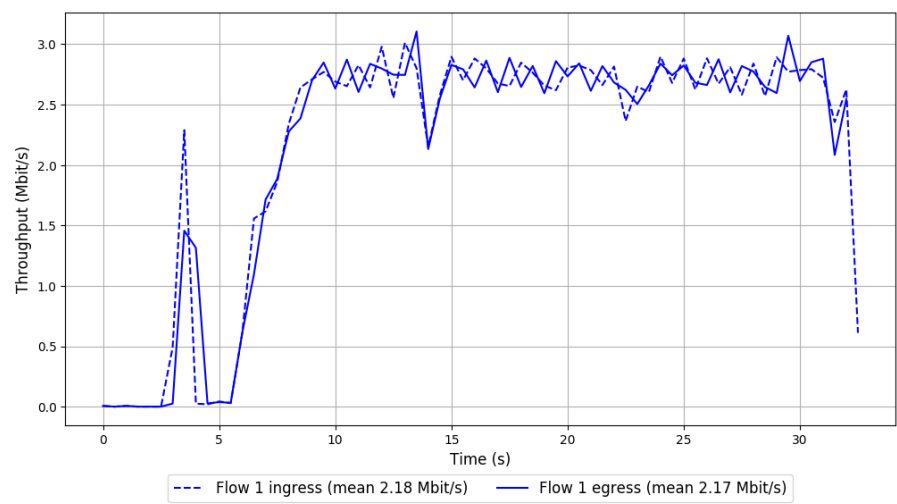
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 99.168 ms

Loss rate: 0.88%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-20 07:19:54

End at: 2018-03-20 07:20:24

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 100.527 ms

Loss rate: 0.92%

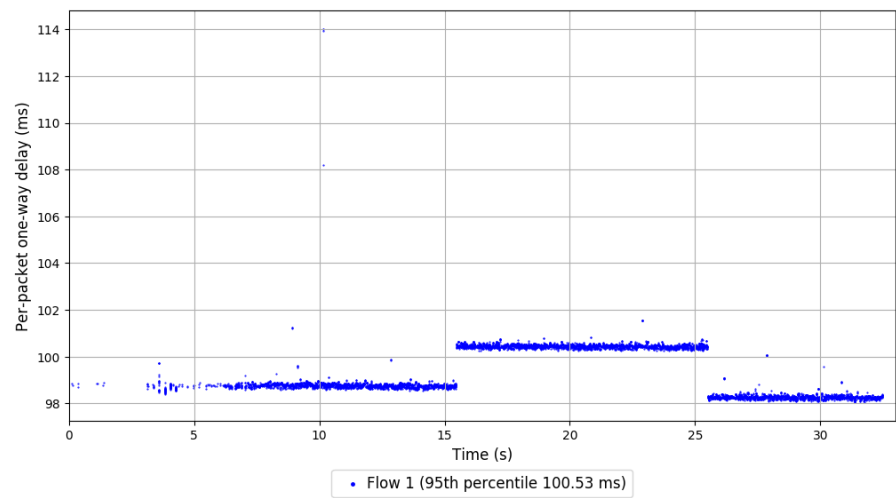
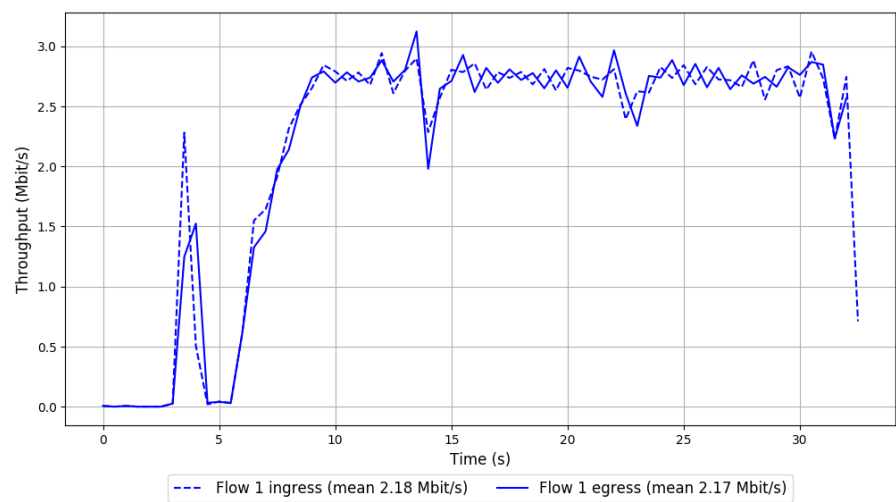
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 100.527 ms

Loss rate: 0.92%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-20 07:34:56

End at: 2018-03-20 07:35:26

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 103.900 ms

Loss rate: 0.93%

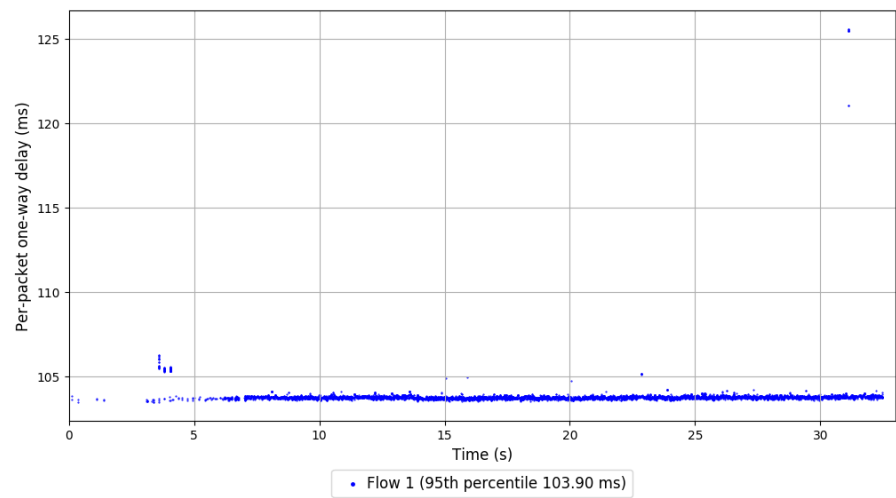
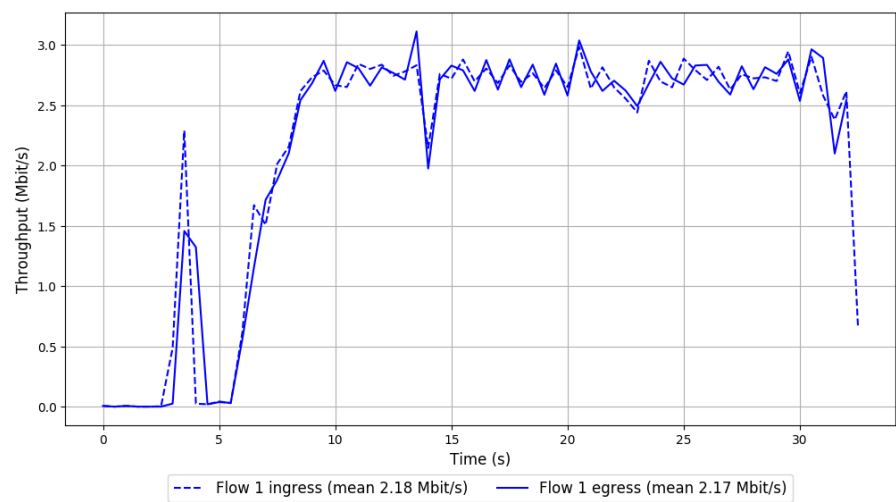
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 103.900 ms

Loss rate: 0.93%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-20 07:50:42

End at: 2018-03-20 07:51:12

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 106.403 ms

Loss rate: 0.91%

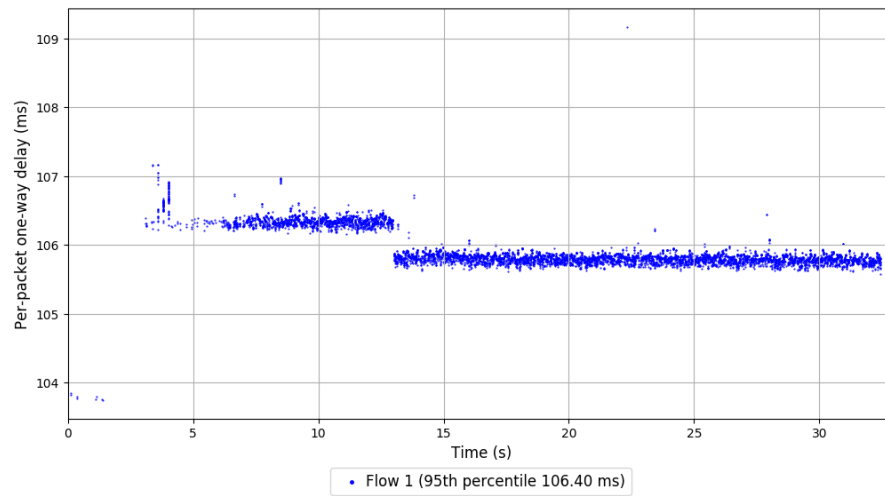
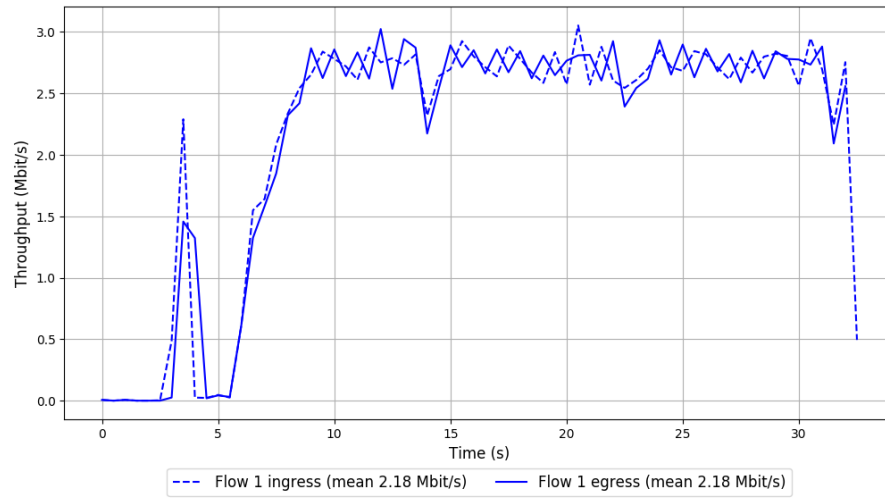
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 106.403 ms

Loss rate: 0.91%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-20 08:06:17

End at: 2018-03-20 08:06:47

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 110.620 ms

Loss rate: 0.77%

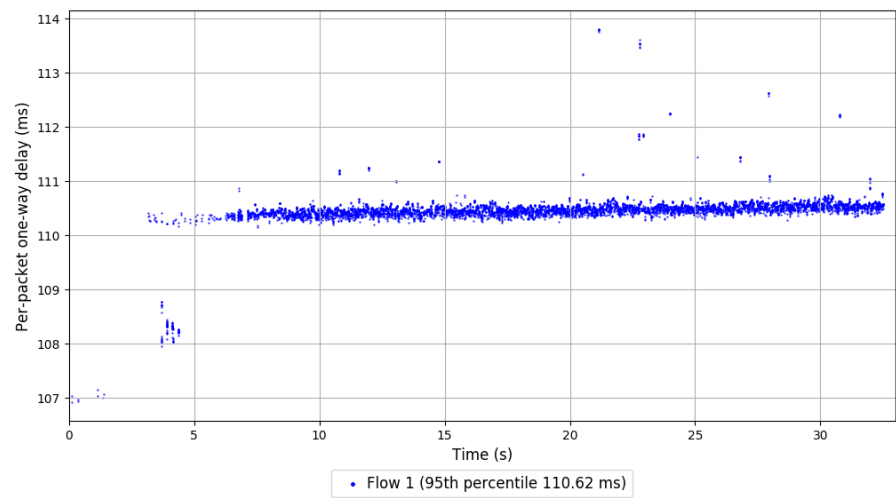
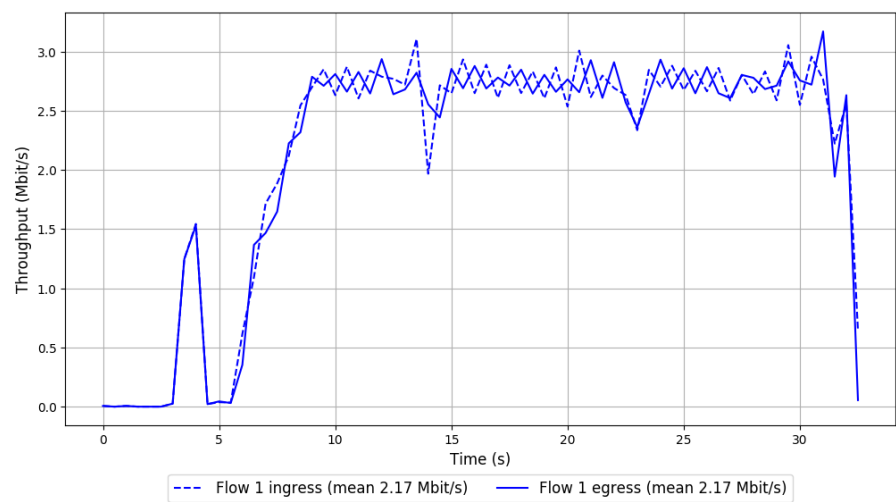
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 110.620 ms

Loss rate: 0.77%

Run 10: Report of WebRTC media — Data Link

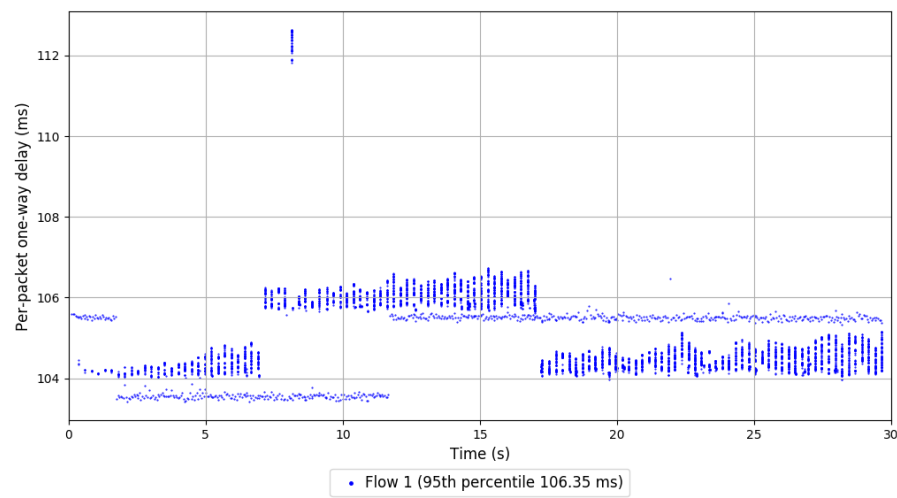
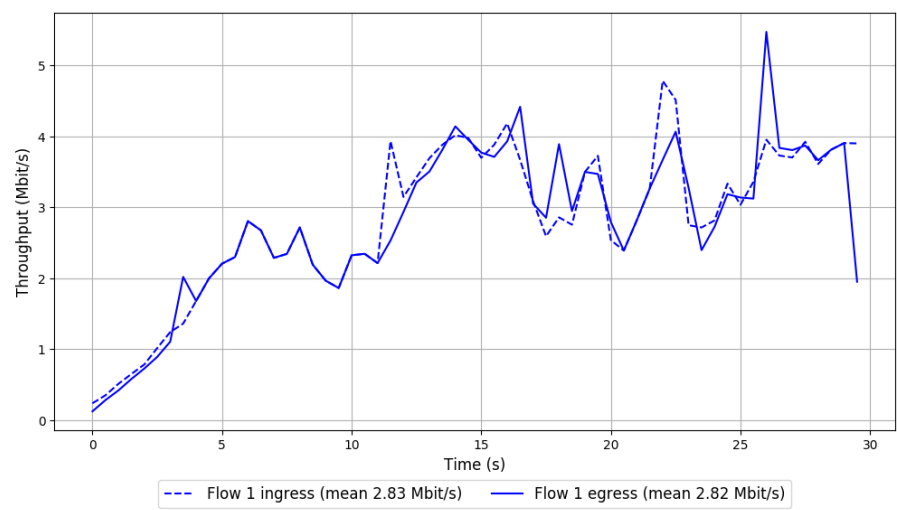


```
Run 1: Statistics of Sprout

Start at: 2018-03-20 05:53:25
End at: 2018-03-20 05:53:55

# Below is generated by plot.py at 2018-03-20 11:24:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 106.346 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 106.346 ms
Loss rate: 1.16%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-20 06:08:50

End at: 2018-03-20 06:09:20

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 100.327 ms

Loss rate: 0.56%

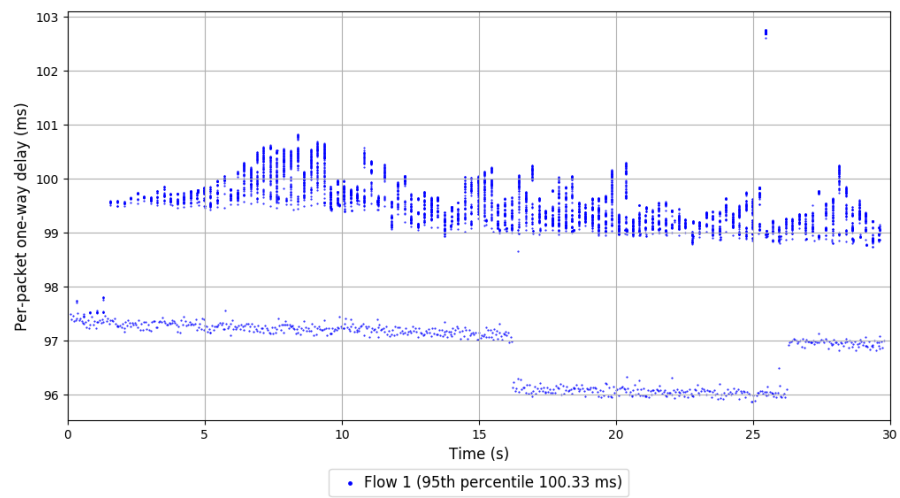
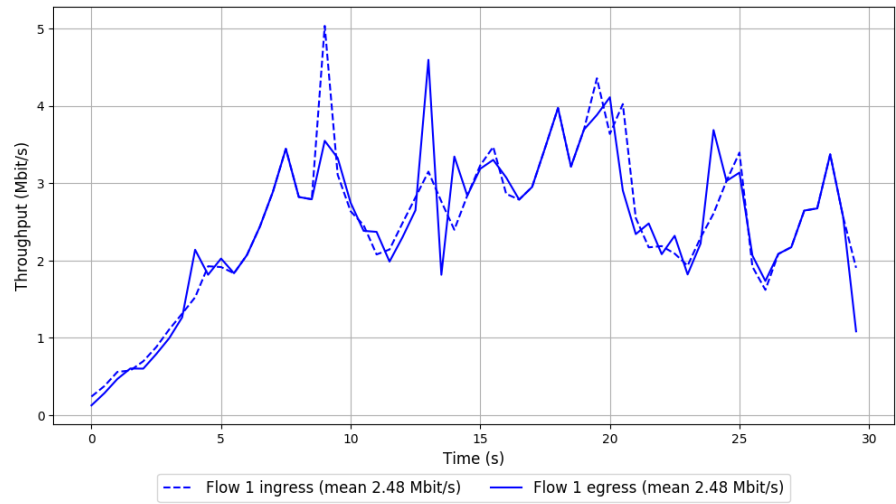
-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 100.327 ms

Loss rate: 0.56%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-20 06:24:02

End at: 2018-03-20 06:24:32

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 95.631 ms

Loss rate: 1.31%

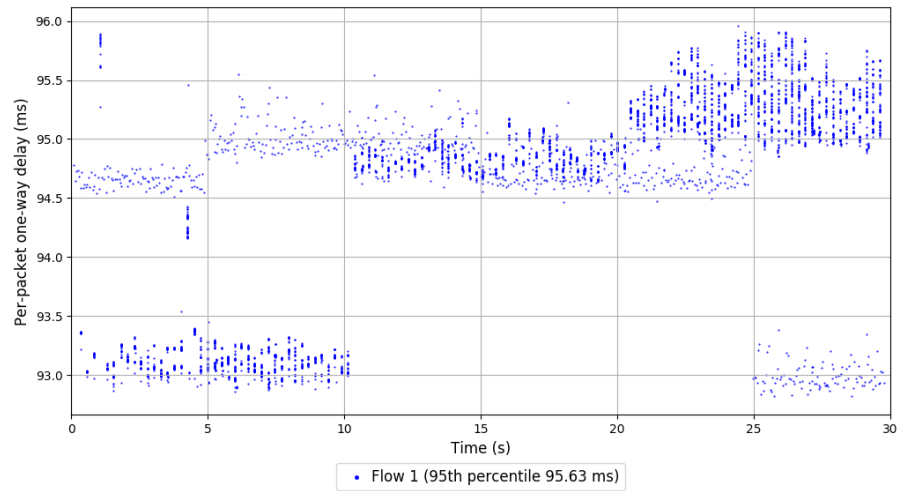
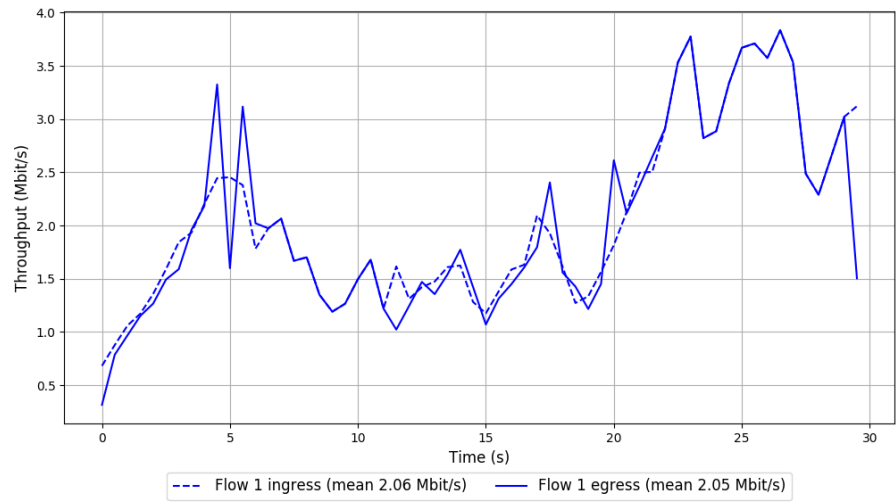
-- Flow 1:

Average throughput: 2.05 Mbit/s

95th percentile per-packet one-way delay: 95.631 ms

Loss rate: 1.31%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-20 06:39:33

End at: 2018-03-20 06:40:03

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 86.102 ms

Loss rate: 0.82%

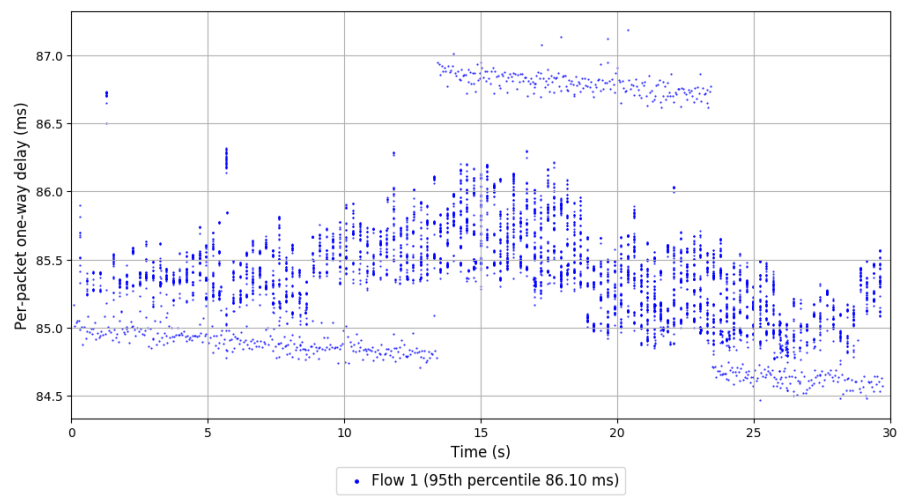
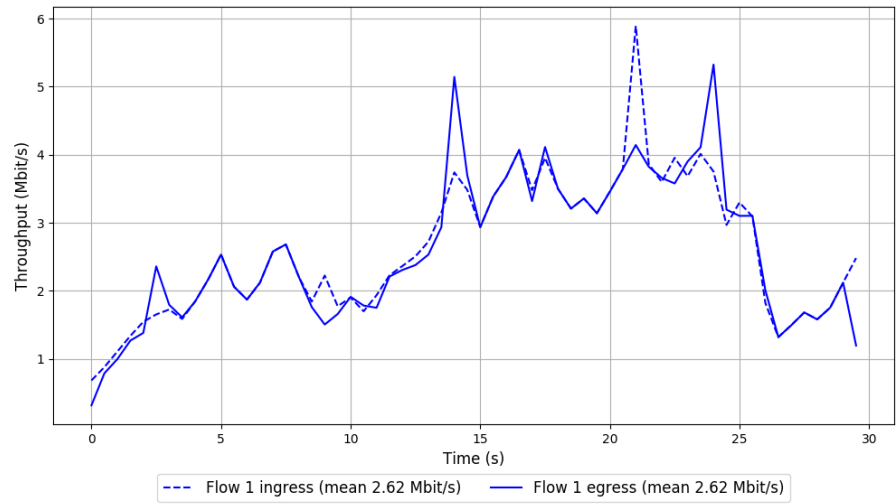
-- Flow 1:

Average throughput: 2.62 Mbit/s

95th percentile per-packet one-way delay: 86.102 ms

Loss rate: 0.82%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-20 06:55:28

End at: 2018-03-20 06:55:58

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 89.512 ms

Loss rate: 0.38%

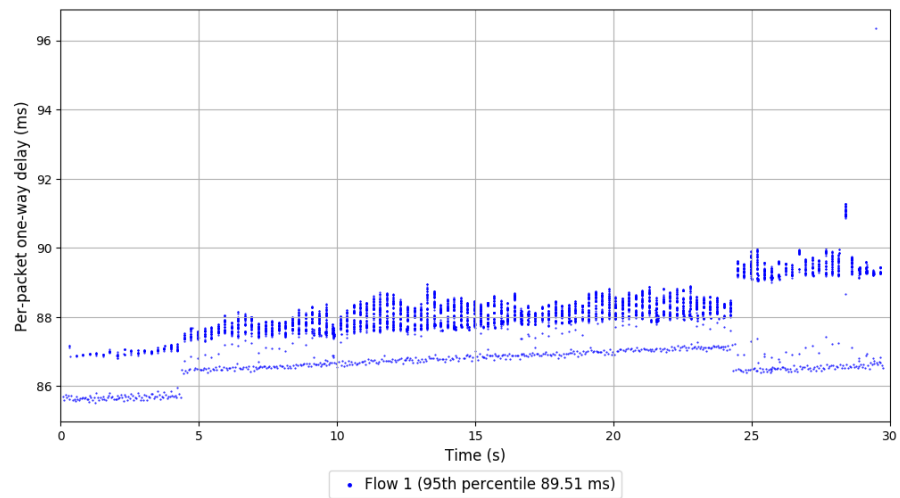
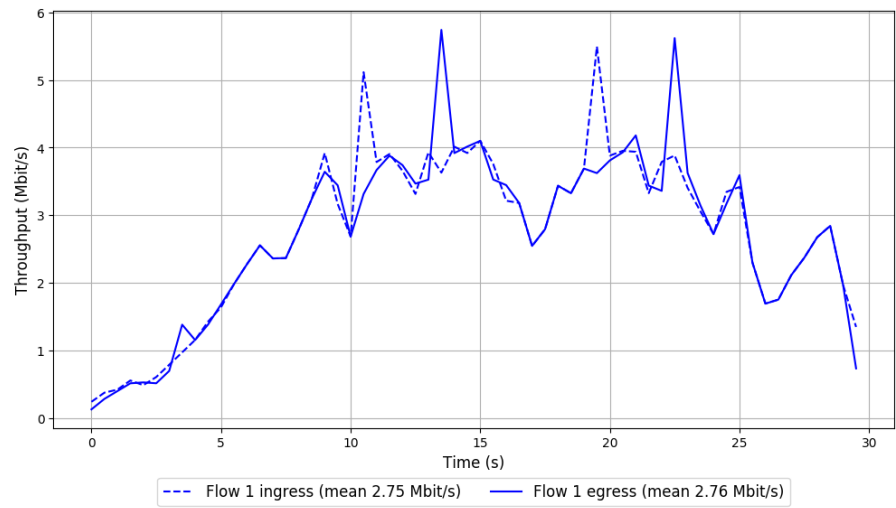
-- Flow 1:

Average throughput: 2.76 Mbit/s

95th percentile per-packet one-way delay: 89.512 ms

Loss rate: 0.38%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-20 07:11:04

End at: 2018-03-20 07:11:34

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 100.856 ms

Loss rate: 0.67%

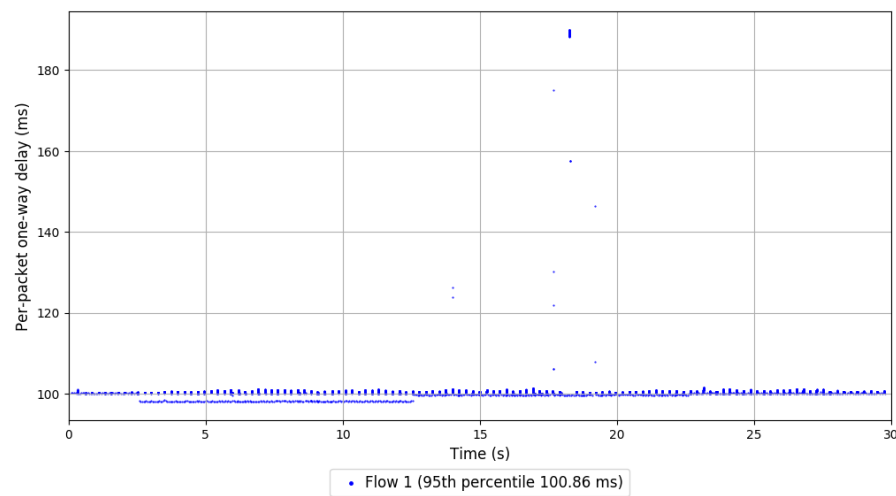
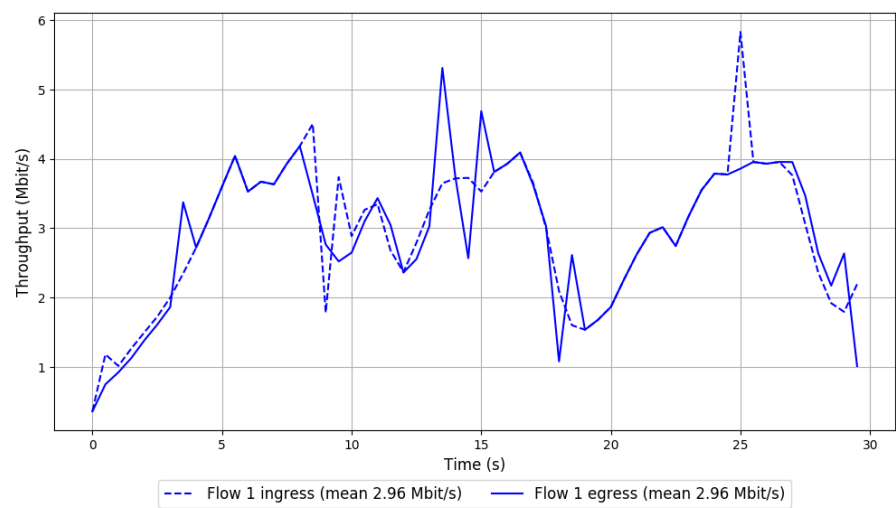
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 100.856 ms

Loss rate: 0.67%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-20 07:26:21

End at: 2018-03-20 07:26:51

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 99.459 ms

Loss rate: 0.96%

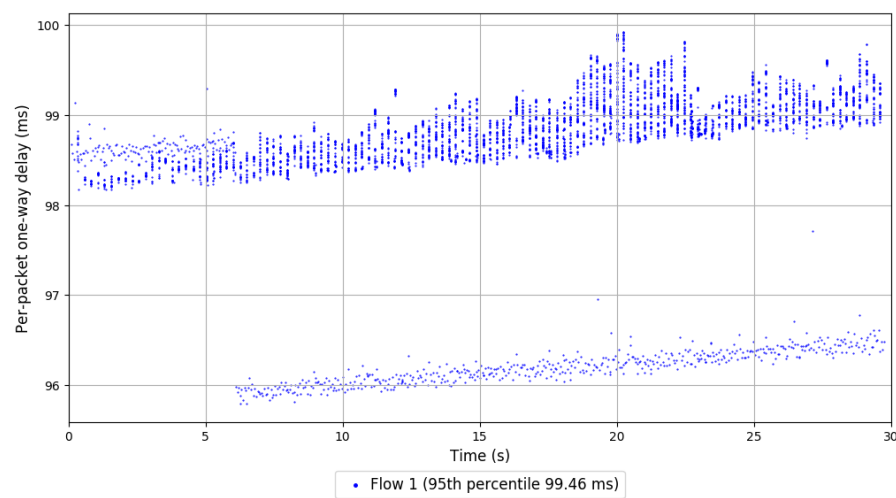
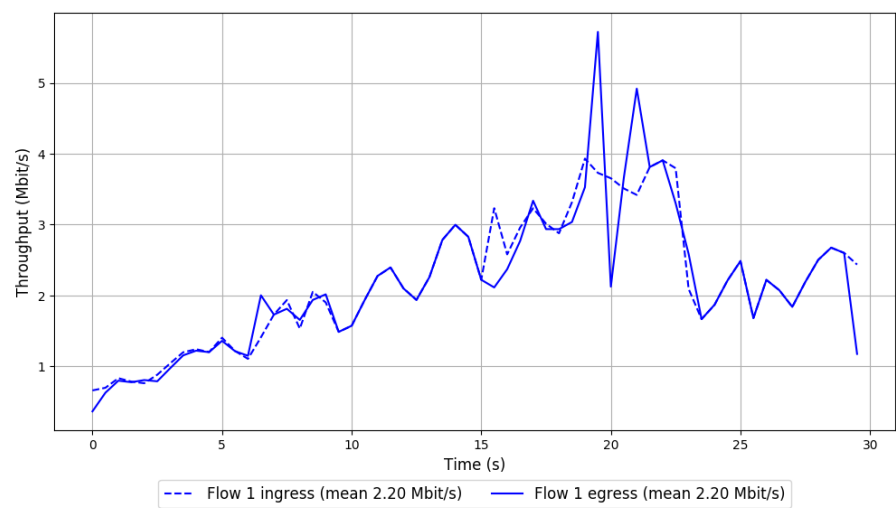
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 99.459 ms

Loss rate: 0.96%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-20 07:41:39

End at: 2018-03-20 07:42:09

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 107.409 ms

Loss rate: 1.04%

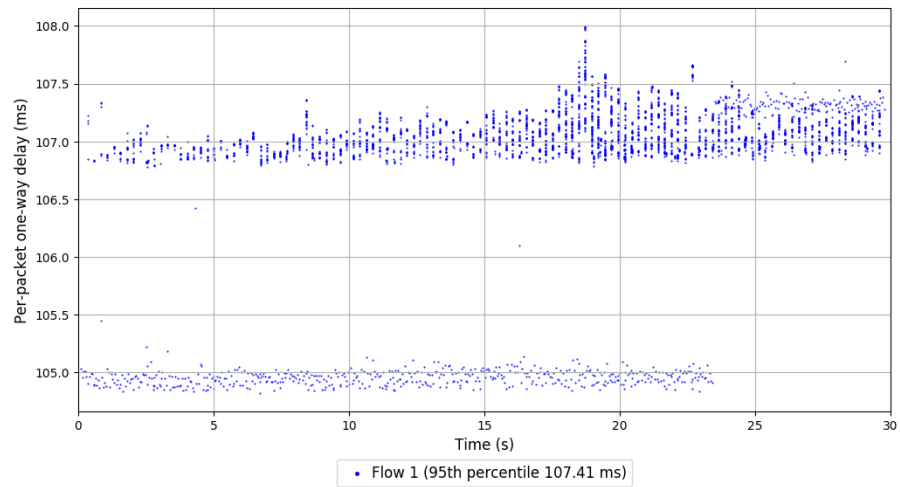
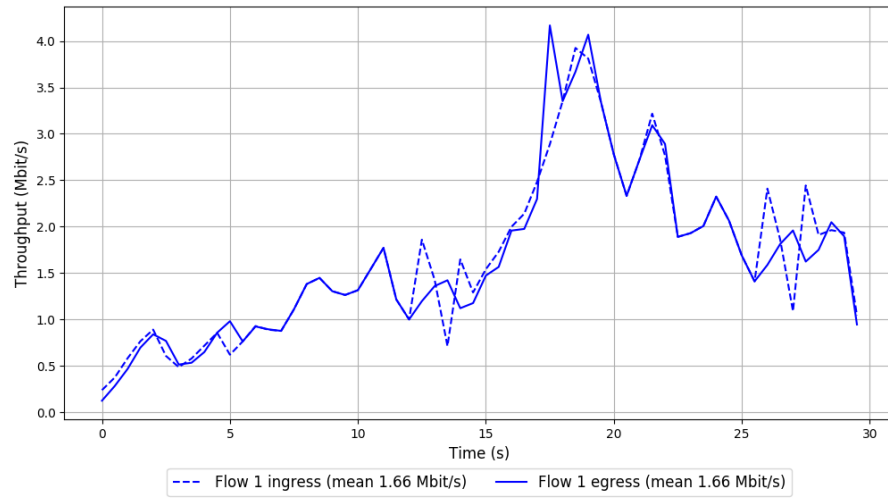
-- Flow 1:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 107.409 ms

Loss rate: 1.04%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-20 07:57:15

End at: 2018-03-20 07:57:45

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 105.473 ms

Loss rate: 1.18%

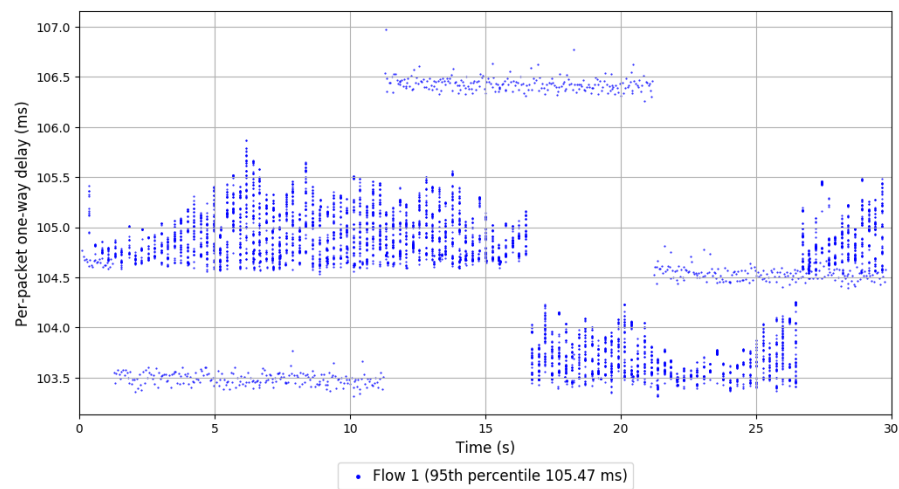
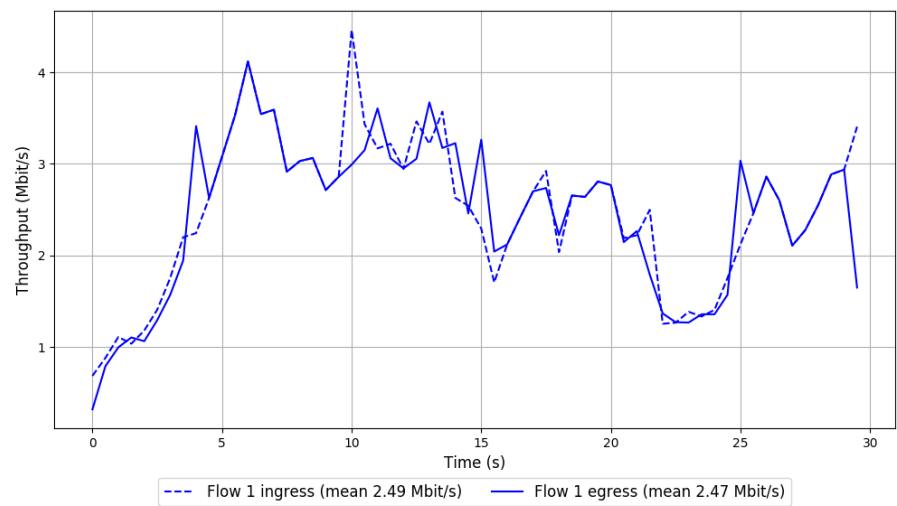
-- Flow 1:

Average throughput: 2.47 Mbit/s

95th percentile per-packet one-way delay: 105.473 ms

Loss rate: 1.18%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-20 08:12:57

End at: 2018-03-20 08:13:27

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 110.875 ms

Loss rate: 1.02%

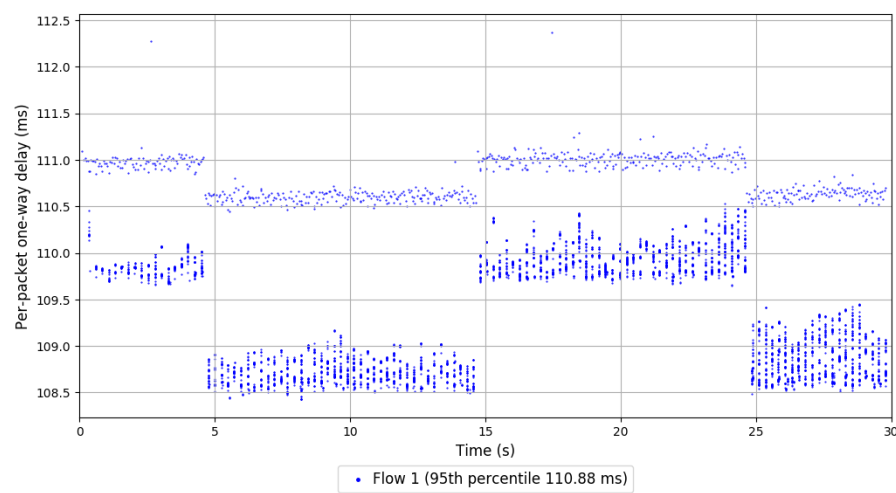
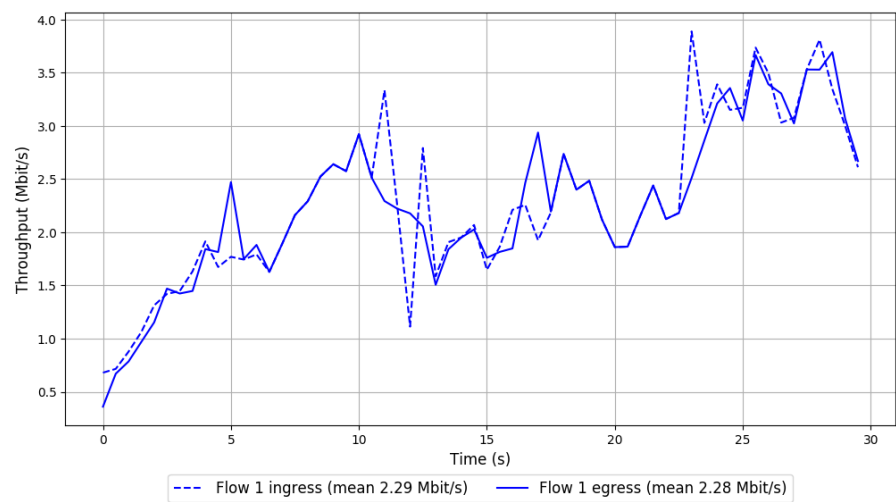
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 110.875 ms

Loss rate: 1.02%

Run 10: Report of Sprout — Data Link

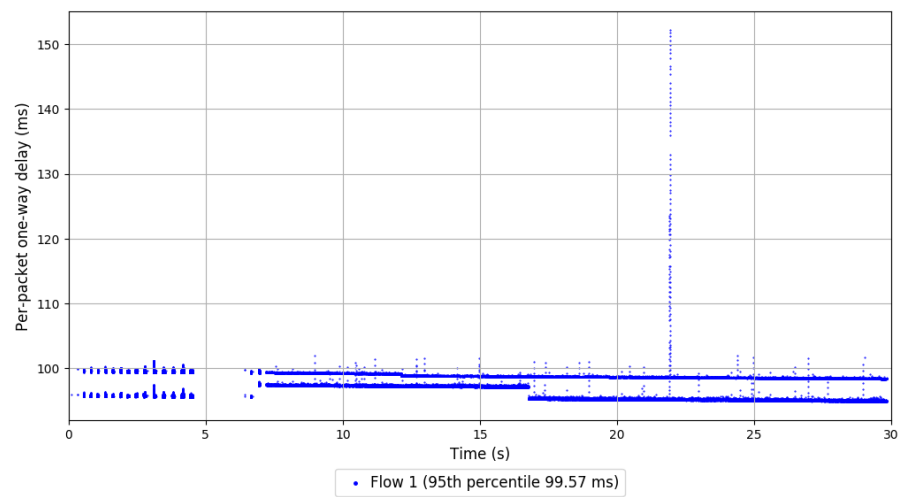
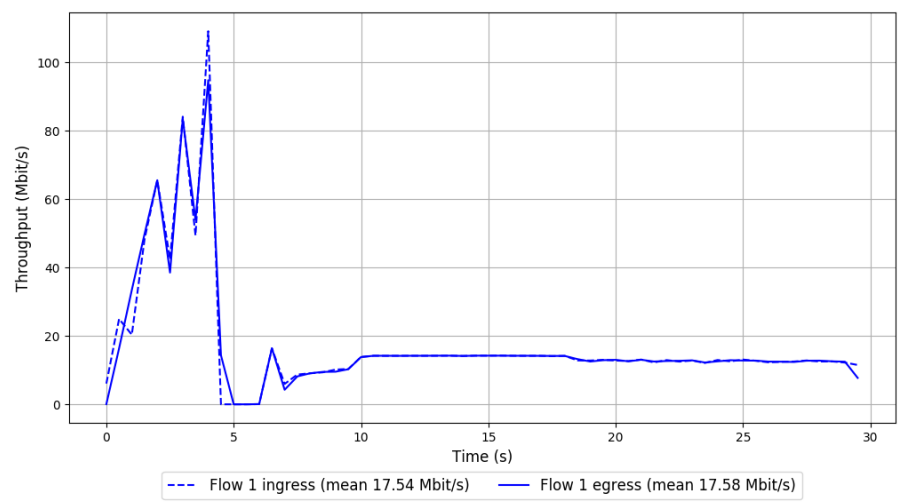


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-20 05:59:00
End at: 2018-03-20 05:59:30

# Below is generated by plot.py at 2018-03-20 11:24:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 99.567 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 99.567 ms
Loss rate: 0.55%
```

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

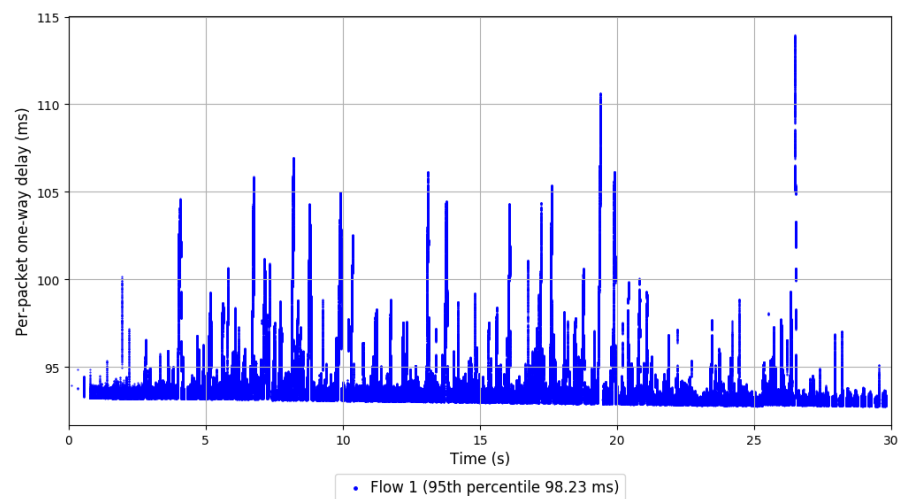
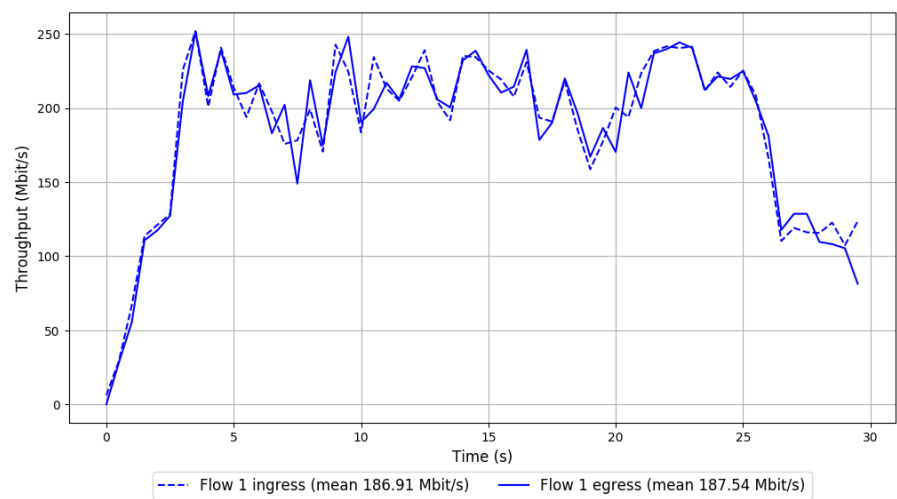


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-20 06:14:17
End at: 2018-03-20 06:14:47

# Below is generated by plot.py at 2018-03-20 11:24:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.54 Mbit/s
95th percentile per-packet one-way delay: 98.233 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 187.54 Mbit/s
95th percentile per-packet one-way delay: 98.233 ms
Loss rate: 0.58%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-20 06:29:45

End at: 2018-03-20 06:30:15

Below is generated by plot.py at 2018-03-20 11:24:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.77 Mbit/s

95th percentile per-packet one-way delay: 94.209 ms

Loss rate: 0.66%

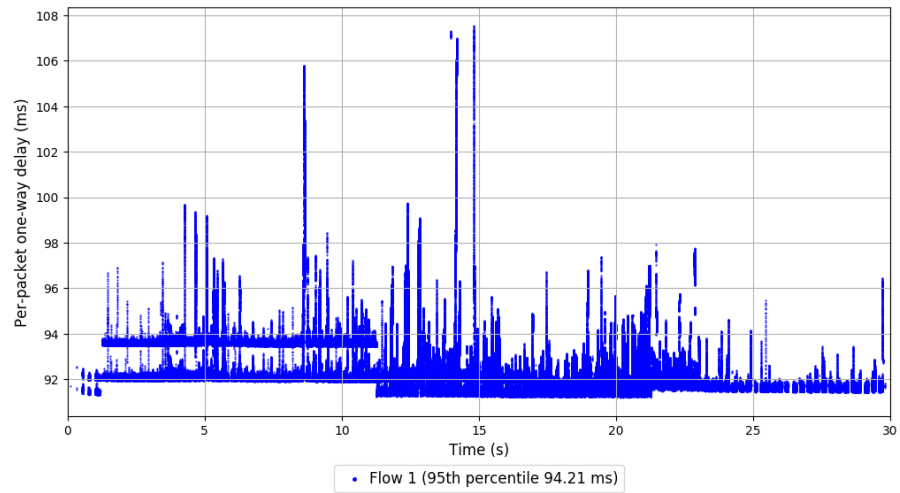
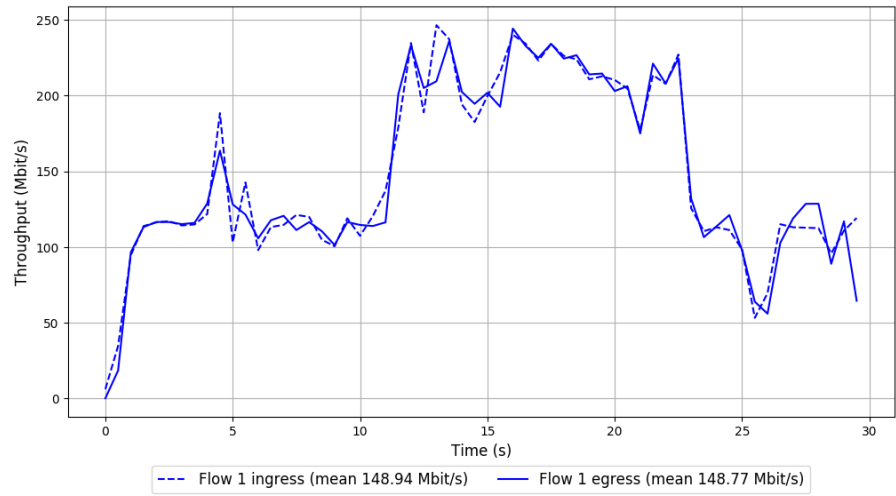
-- Flow 1:

Average throughput: 148.77 Mbit/s

95th percentile per-packet one-way delay: 94.209 ms

Loss rate: 0.66%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-20 06:45:18

End at: 2018-03-20 06:45:48

Below is generated by plot.py at 2018-03-20 11:25:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.67 Mbit/s

95th percentile per-packet one-way delay: 80.440 ms

Loss rate: 0.71%

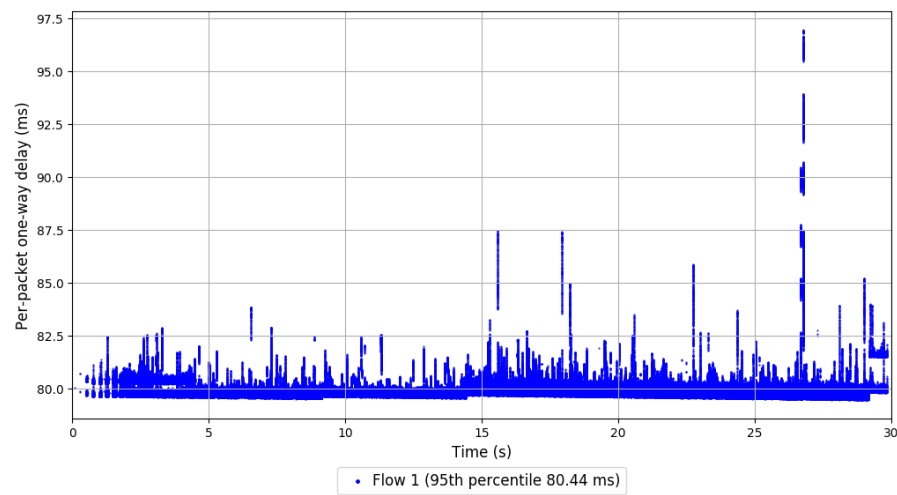
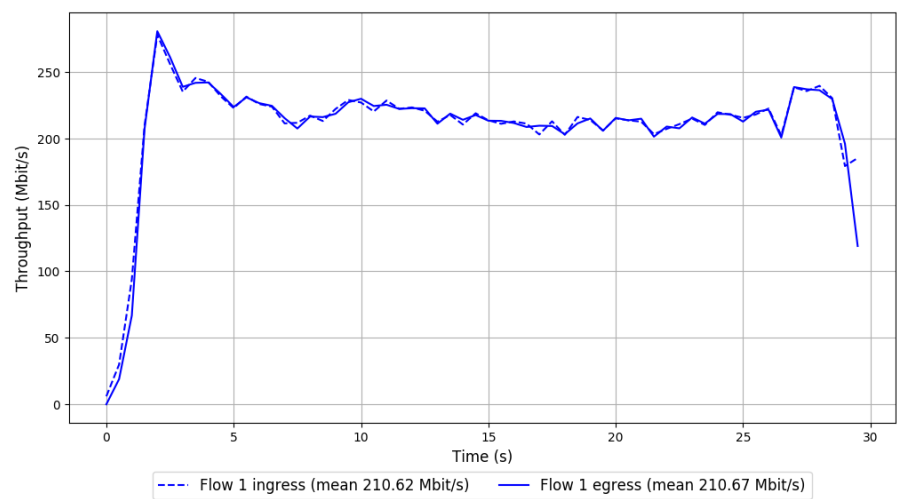
-- Flow 1:

Average throughput: 210.67 Mbit/s

95th percentile per-packet one-way delay: 80.440 ms

Loss rate: 0.71%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-20 07:01:13

End at: 2018-03-20 07:01:43

Below is generated by plot.py at 2018-03-20 11:25:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.94 Mbit/s

95th percentile per-packet one-way delay: 97.147 ms

Loss rate: 0.33%

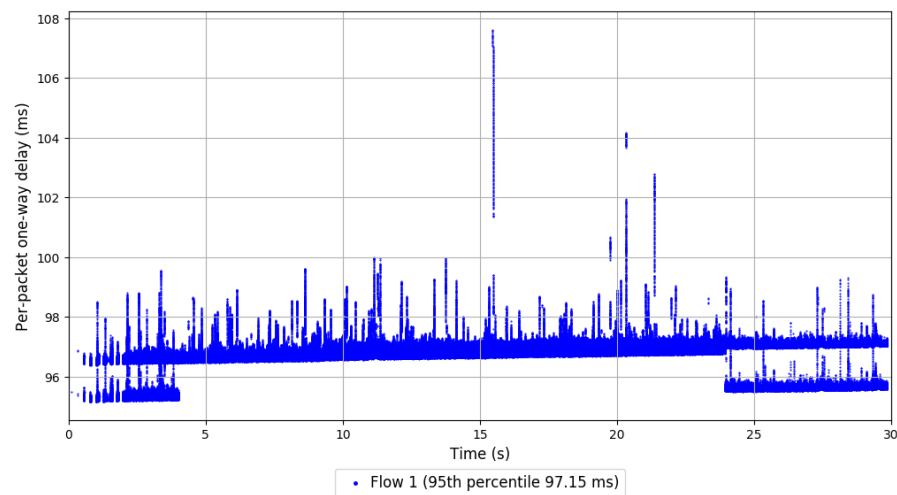
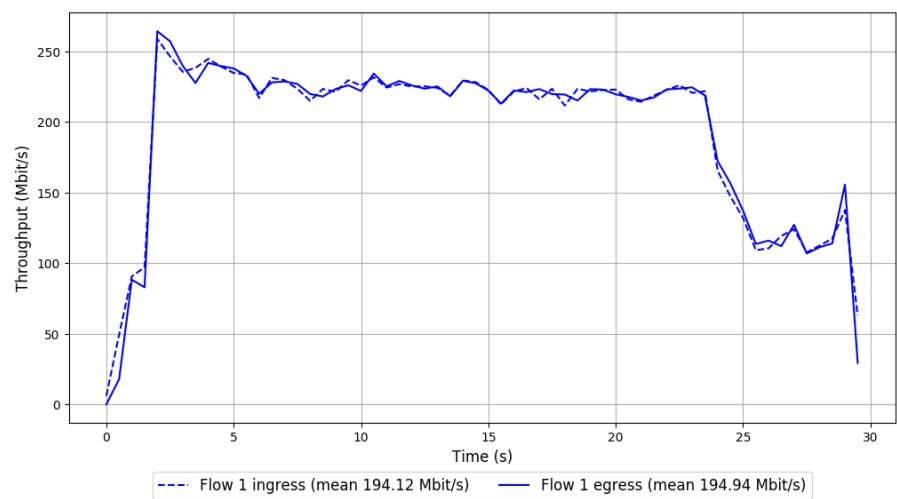
-- Flow 1:

Average throughput: 194.94 Mbit/s

95th percentile per-packet one-way delay: 97.147 ms

Loss rate: 0.33%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-20 07:16:38

End at: 2018-03-20 07:17:08

Below is generated by plot.py at 2018-03-20 11:25:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.99 Mbit/s

95th percentile per-packet one-way delay: 99.380 ms

Loss rate: 0.41%

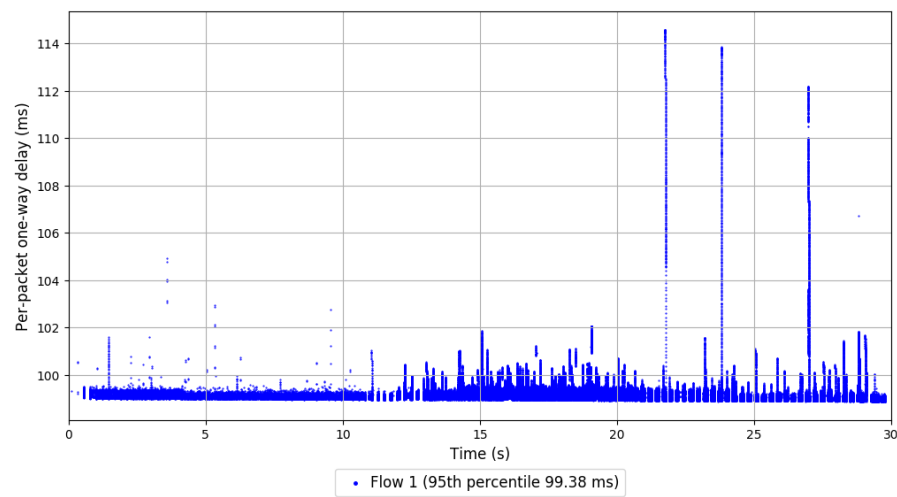
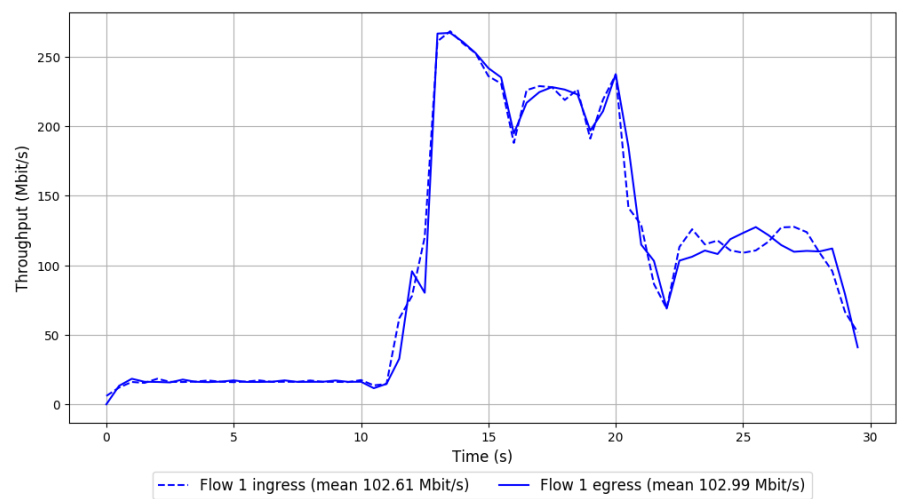
-- Flow 1:

Average throughput: 102.99 Mbit/s

95th percentile per-packet one-way delay: 99.380 ms

Loss rate: 0.41%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-20 07:31:49

End at: 2018-03-20 07:32:19

Below is generated by plot.py at 2018-03-20 11:25:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: 104.079 ms

Loss rate: 3.57%

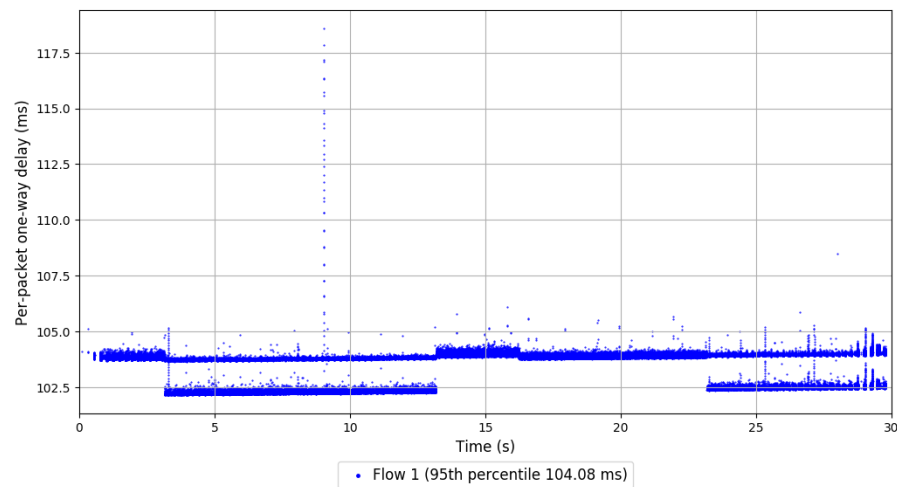
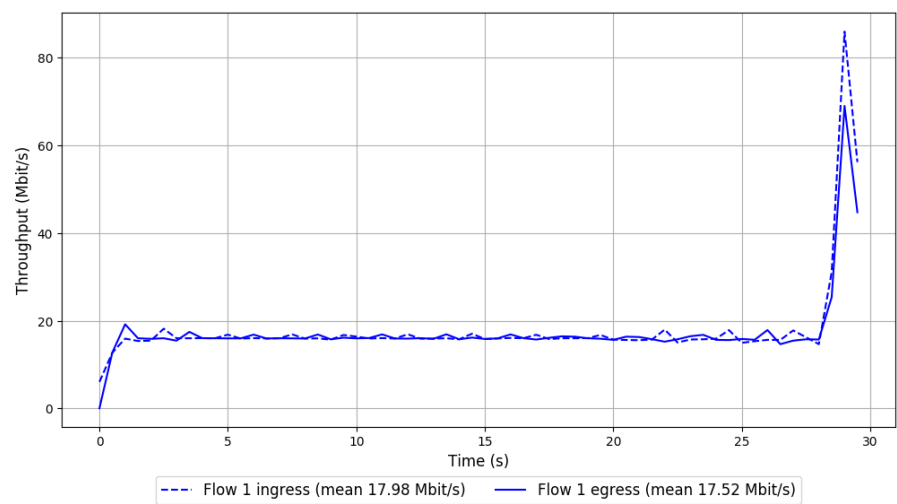
-- Flow 1:

Average throughput: 17.52 Mbit/s

95th percentile per-packet one-way delay: 104.079 ms

Loss rate: 3.57%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-20 07:47:20

End at: 2018-03-20 07:47:50

Below is generated by plot.py at 2018-03-20 11:25:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.37 Mbit/s

95th percentile per-packet one-way delay: 106.991 ms

Loss rate: 1.02%

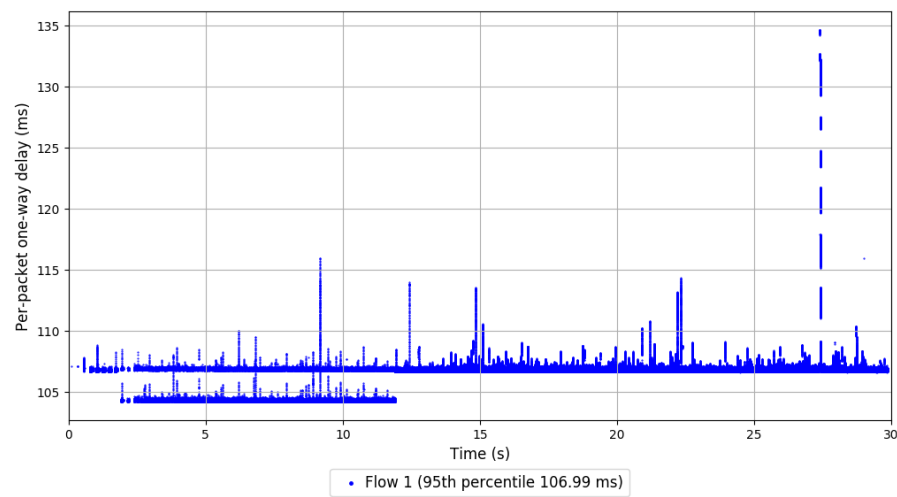
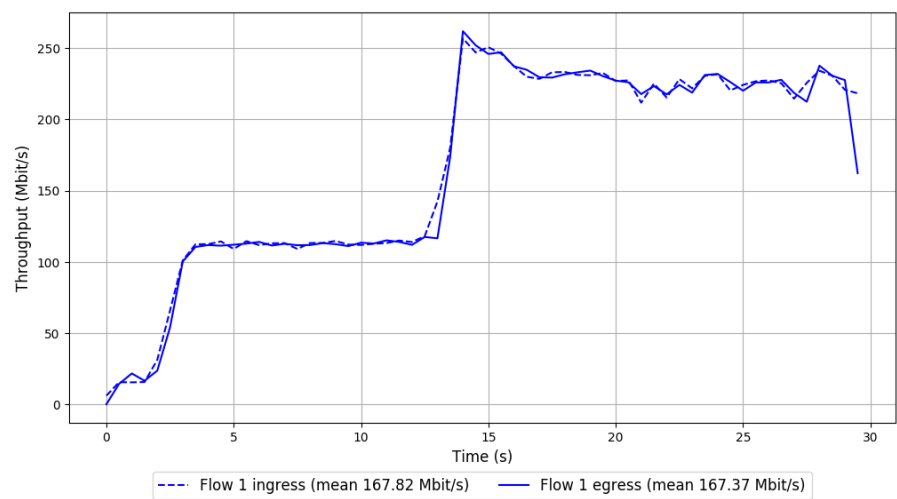
-- Flow 1:

Average throughput: 167.37 Mbit/s

95th percentile per-packet one-way delay: 106.991 ms

Loss rate: 1.02%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-20 08:02:56

End at: 2018-03-20 08:03:26

Below is generated by plot.py at 2018-03-20 11:26:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.05 Mbit/s

95th percentile per-packet one-way delay: 107.344 ms

Loss rate: 0.28%

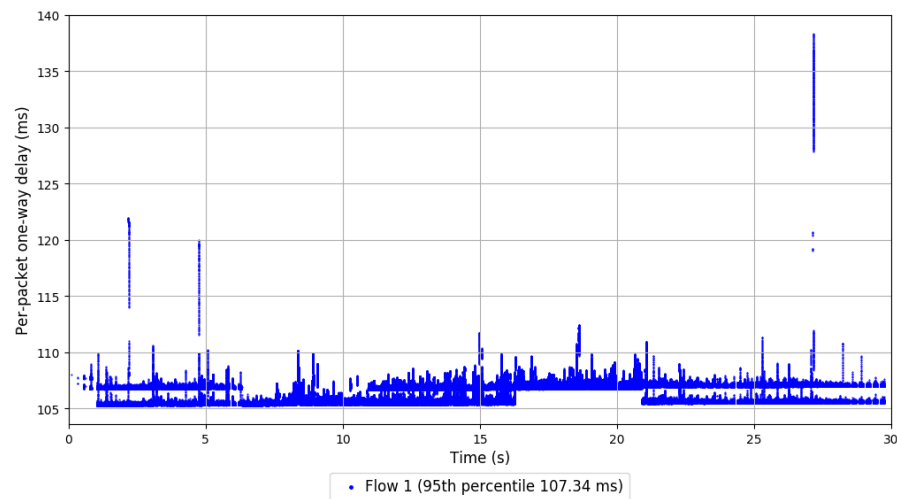
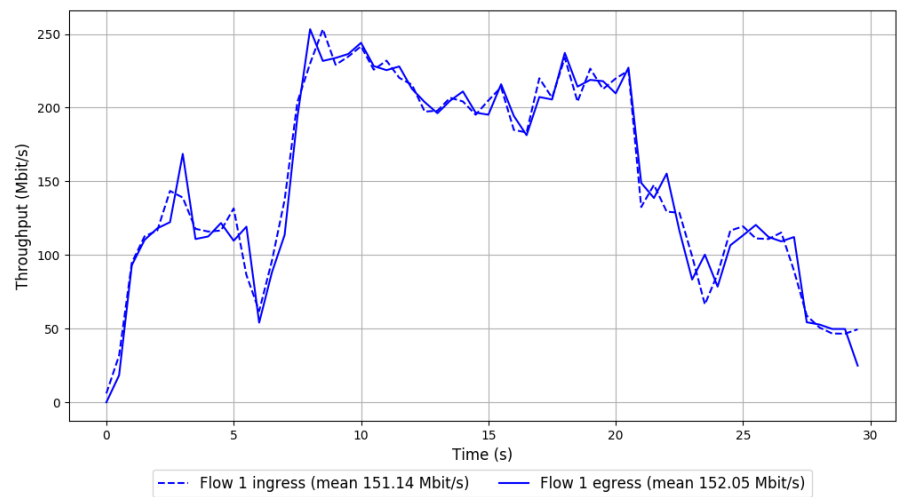
-- Flow 1:

Average throughput: 152.05 Mbit/s

95th percentile per-packet one-way delay: 107.344 ms

Loss rate: 0.28%

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

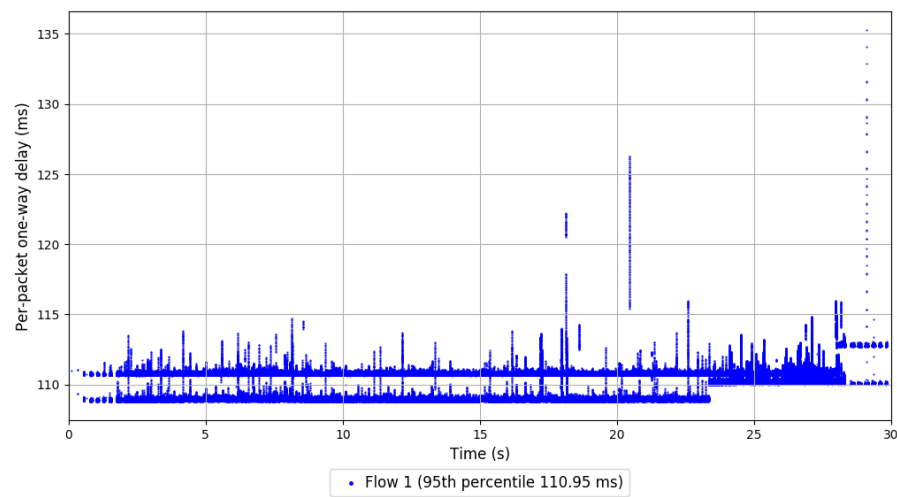
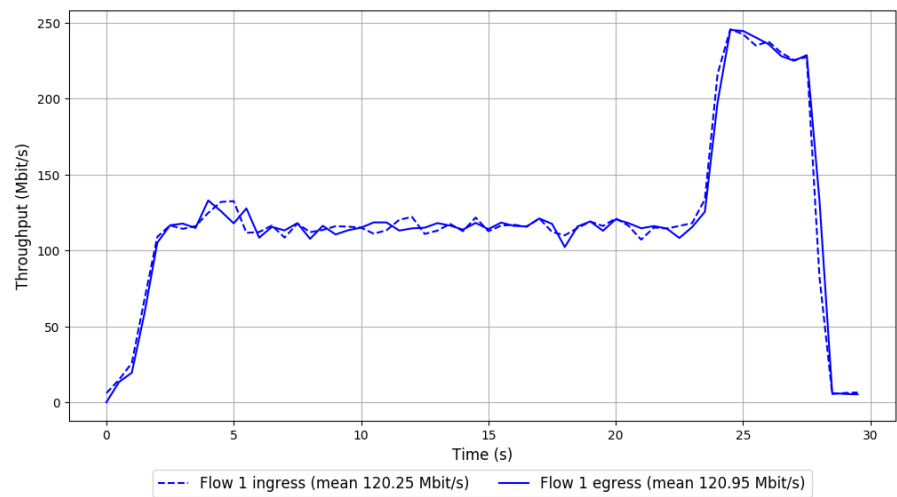


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-20 08:18:39
End at: 2018-03-20 08:19:09

# Below is generated by plot.py at 2018-03-20 11:26:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 120.95 Mbit/s
95th percentile per-packet one-way delay: 110.949 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 120.95 Mbit/s
95th percentile per-packet one-way delay: 110.949 ms
Loss rate: 0.05%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-20 05:54:06

End at: 2018-03-20 05:54:36

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 105.560 ms

Loss rate: 0.76%

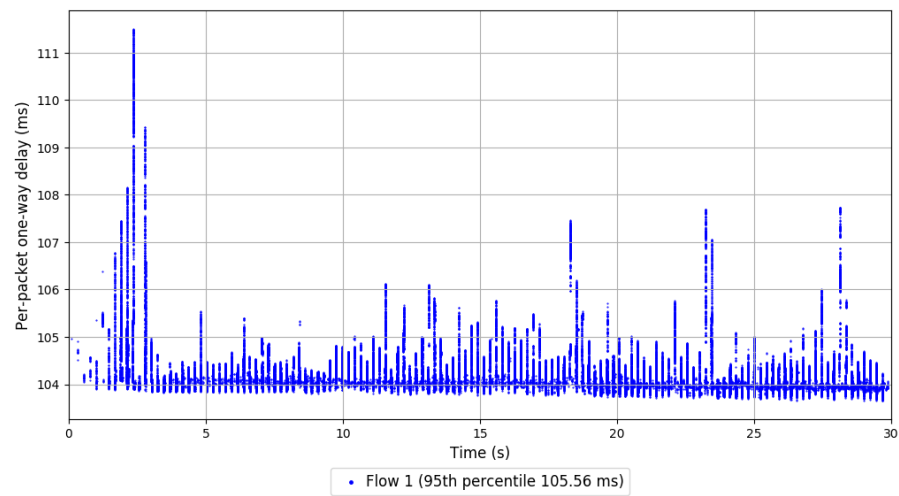
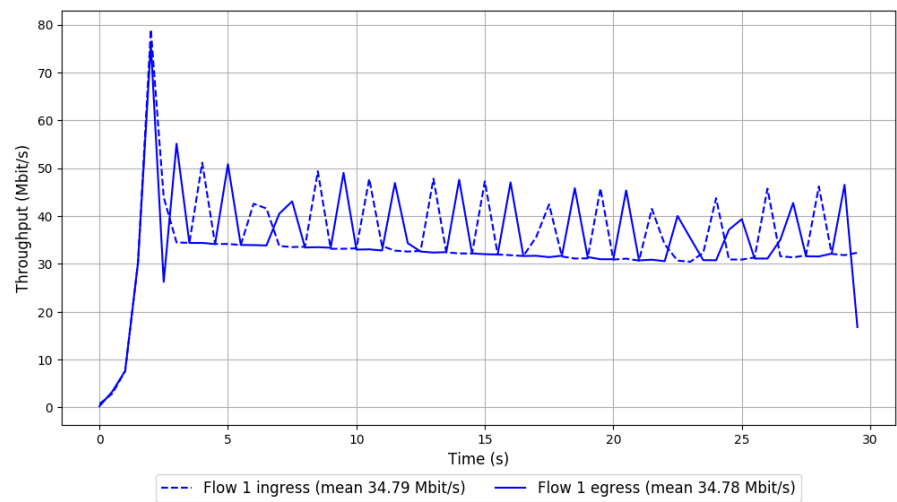
-- Flow 1:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 105.560 ms

Loss rate: 0.76%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-20 06:09:31

End at: 2018-03-20 06:10:01

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.96 Mbit/s

95th percentile per-packet one-way delay: 100.241 ms

Loss rate: 0.71%

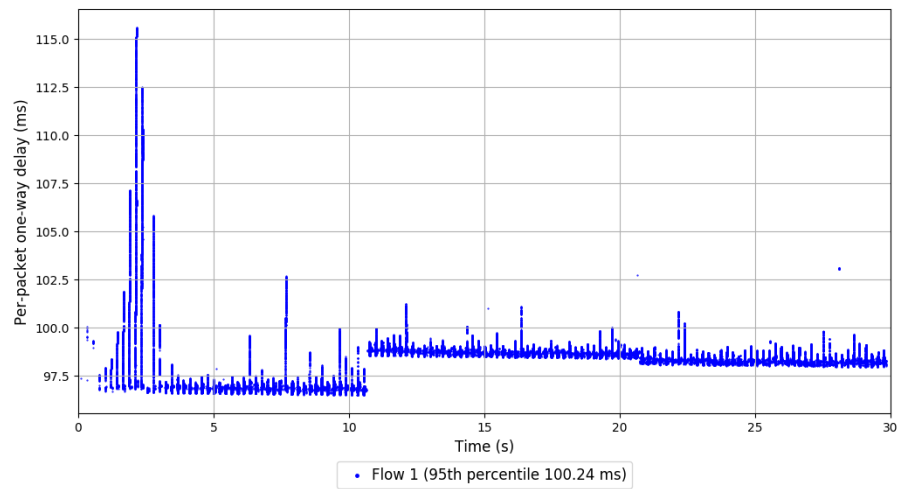
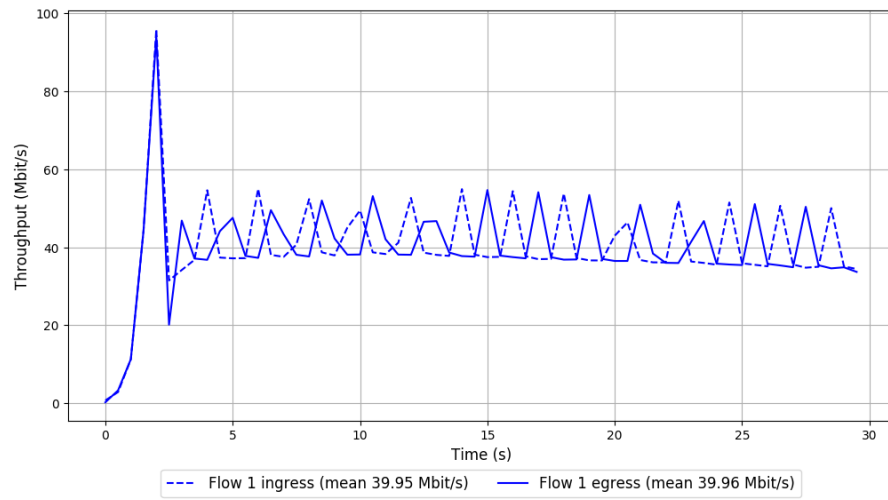
-- Flow 1:

Average throughput: 39.96 Mbit/s

95th percentile per-packet one-way delay: 100.241 ms

Loss rate: 0.71%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-20 06:24:43

End at: 2018-03-20 06:25:13

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 97.004 ms

Loss rate: 0.79%

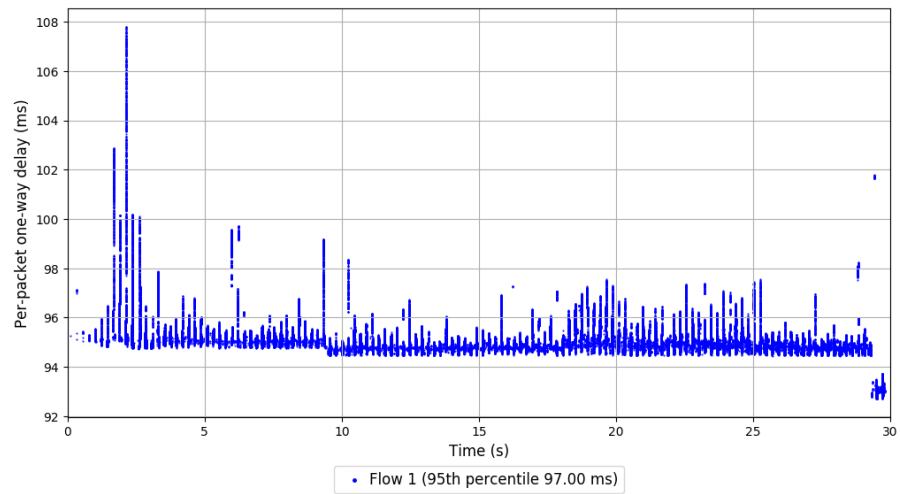
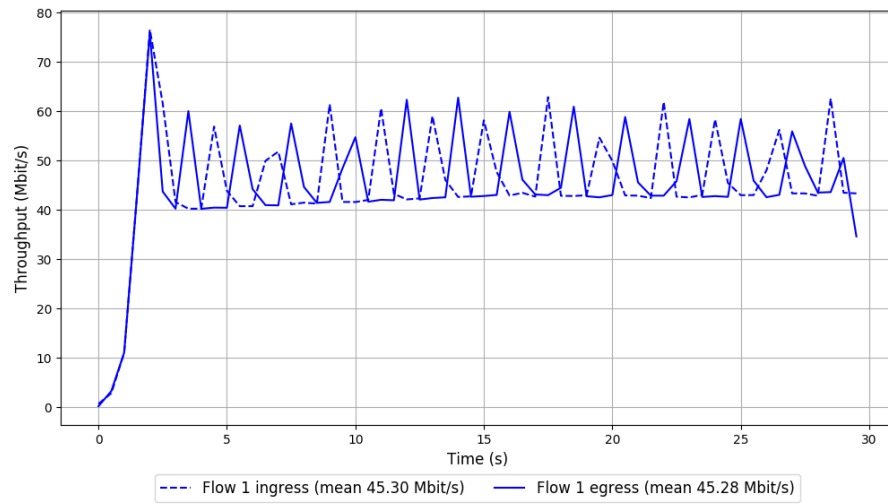
-- Flow 1:

Average throughput: 45.28 Mbit/s

95th percentile per-packet one-way delay: 97.004 ms

Loss rate: 0.79%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-20 06:40:14

End at: 2018-03-20 06:40:44

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 85.694 ms

Loss rate: 0.73%

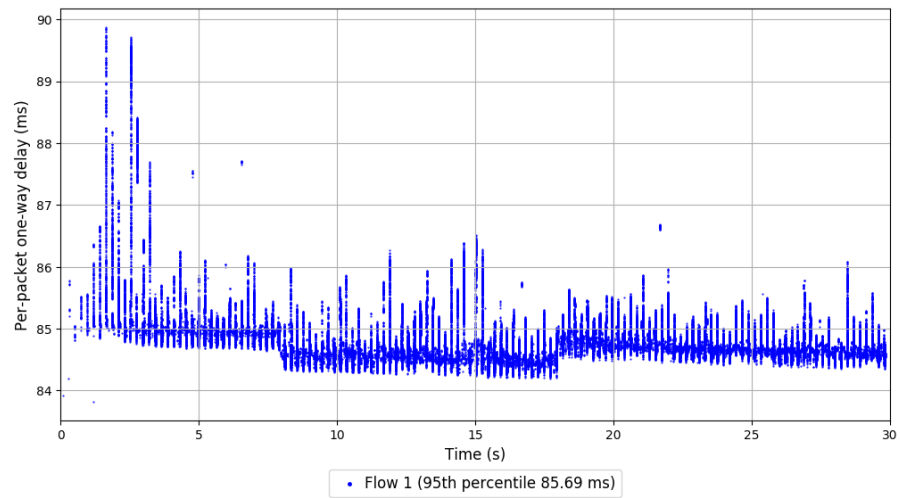
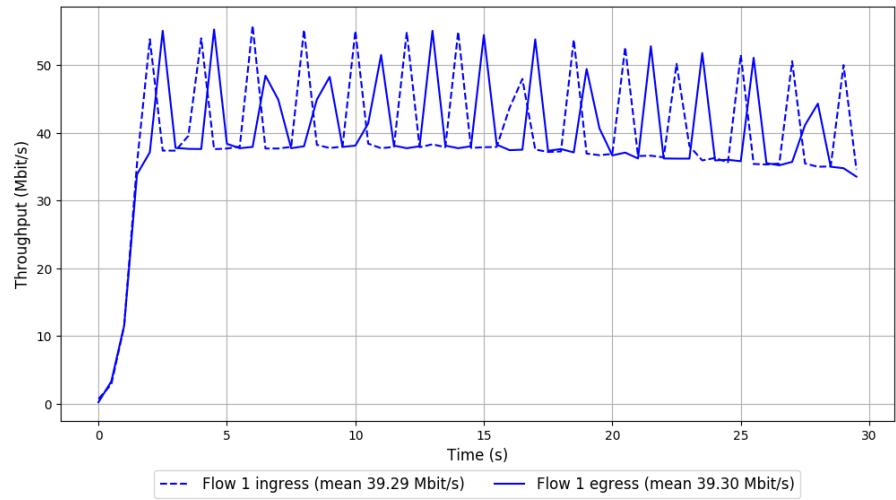
-- Flow 1:

Average throughput: 39.30 Mbit/s

95th percentile per-packet one-way delay: 85.694 ms

Loss rate: 0.73%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-20 06:56:09

End at: 2018-03-20 06:56:39

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 90.441 ms

Loss rate: 0.79%

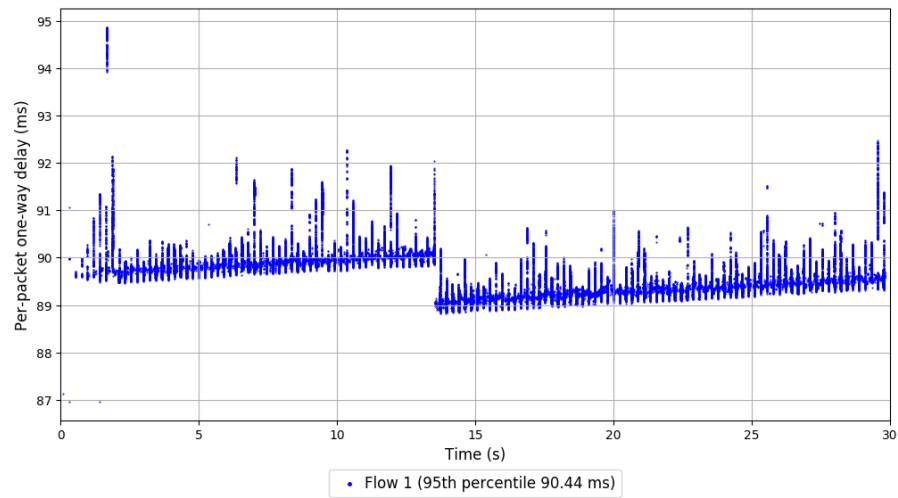
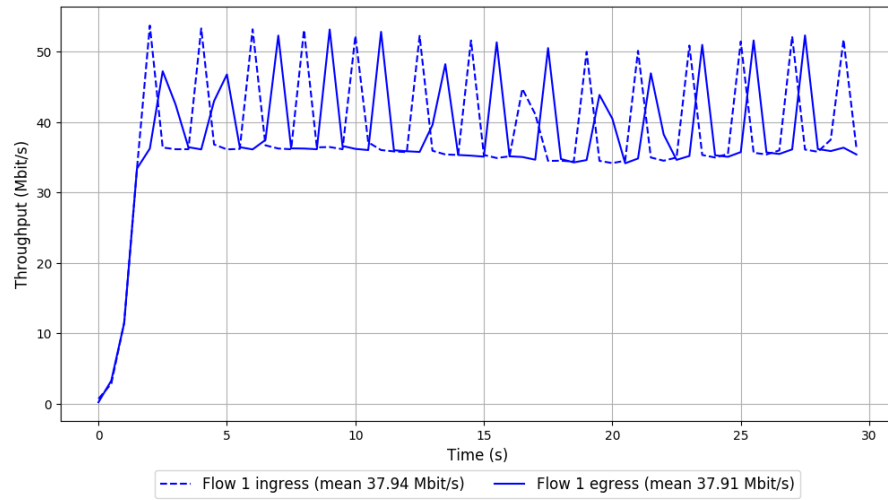
-- Flow 1:

Average throughput: 37.91 Mbit/s

95th percentile per-packet one-way delay: 90.441 ms

Loss rate: 0.79%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-20 07:11:45

End at: 2018-03-20 07:12:15

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 101.169 ms

Loss rate: 0.77%

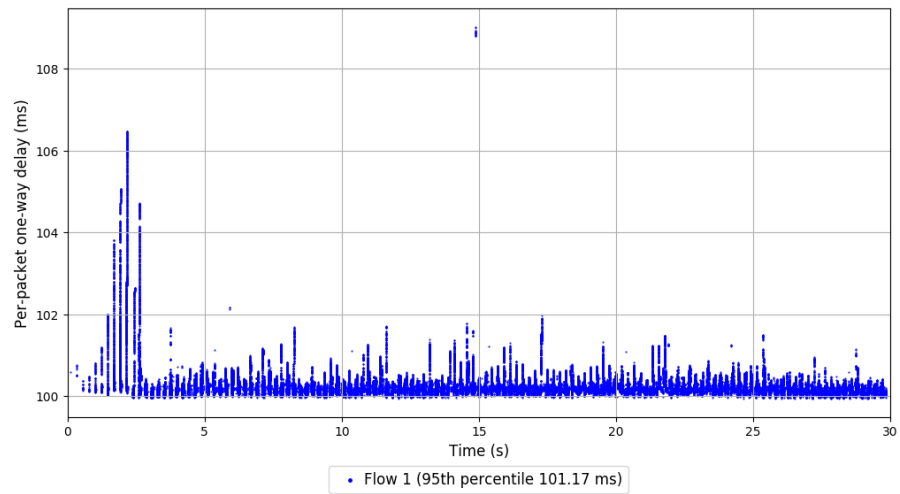
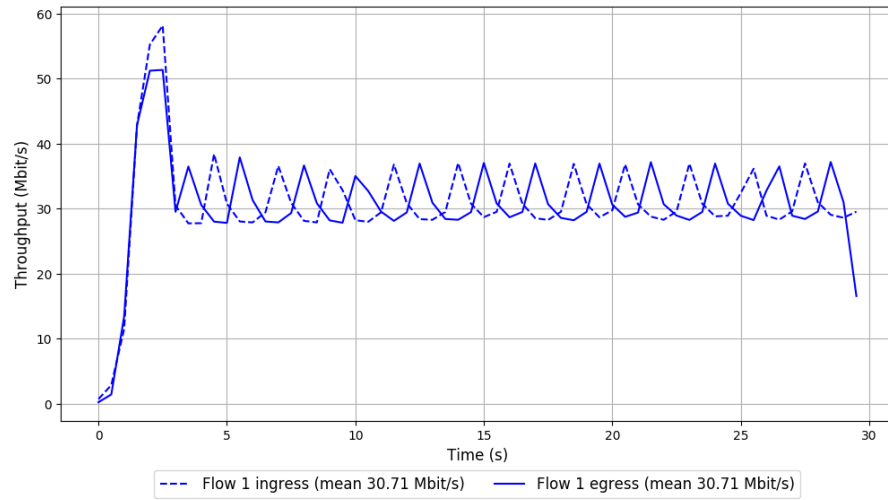
-- Flow 1:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 101.169 ms

Loss rate: 0.77%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-20 07:27:01

End at: 2018-03-20 07:27:31

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 100.650 ms

Loss rate: 0.76%

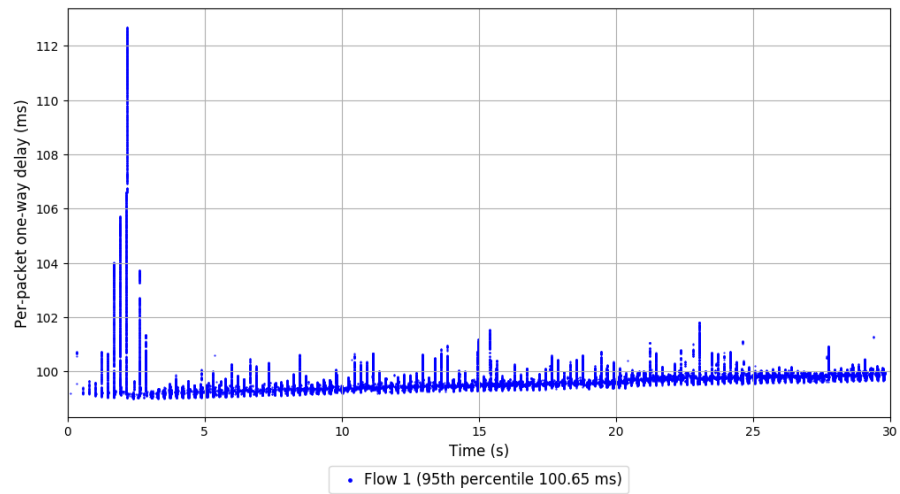
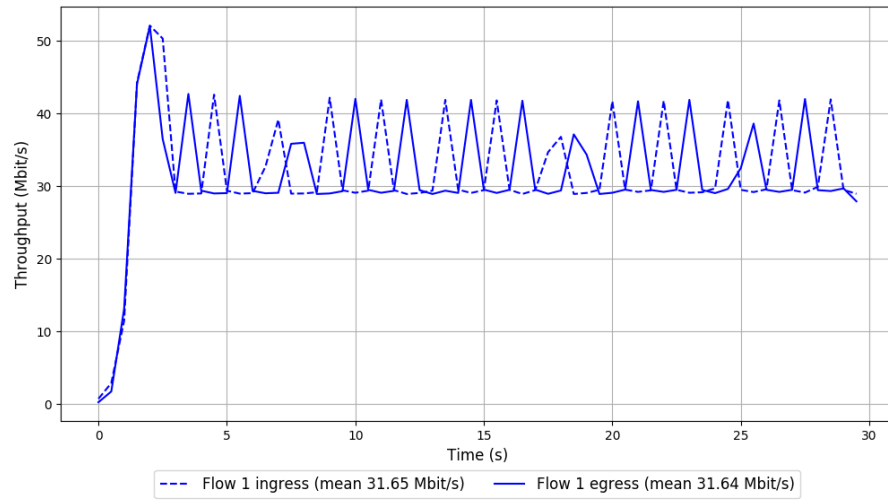
-- Flow 1:

Average throughput: 31.64 Mbit/s

95th percentile per-packet one-way delay: 100.650 ms

Loss rate: 0.76%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-20 07:42:19

End at: 2018-03-20 07:42:49

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.63 Mbit/s

95th percentile per-packet one-way delay: 107.983 ms

Loss rate: 0.76%

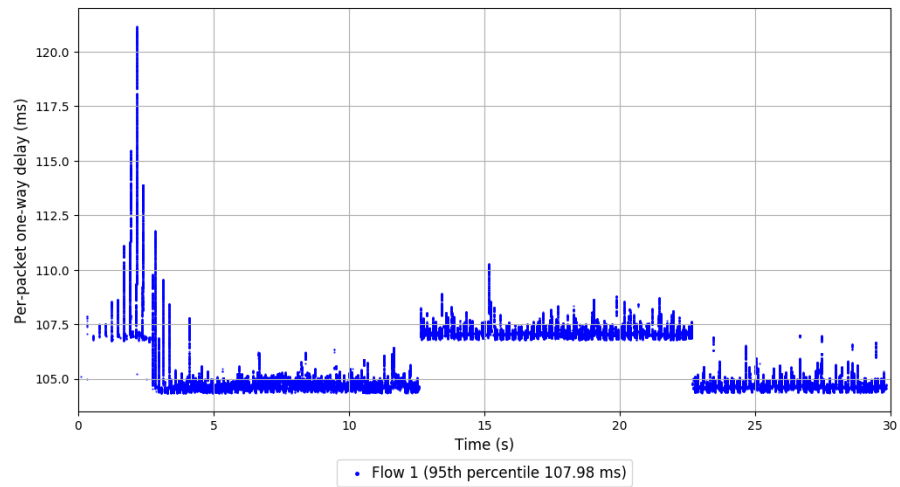
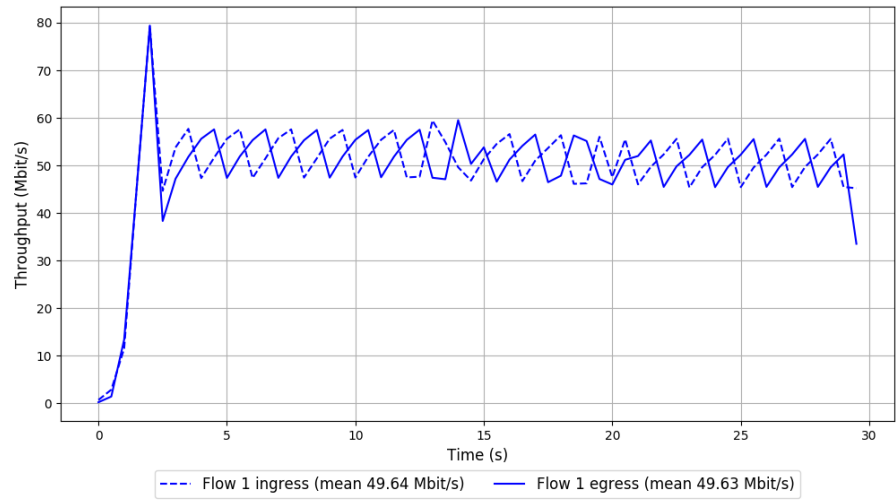
-- Flow 1:

Average throughput: 49.63 Mbit/s

95th percentile per-packet one-way delay: 107.983 ms

Loss rate: 0.76%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-20 07:57:56

End at: 2018-03-20 07:58:26

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 105.592 ms

Loss rate: 0.76%

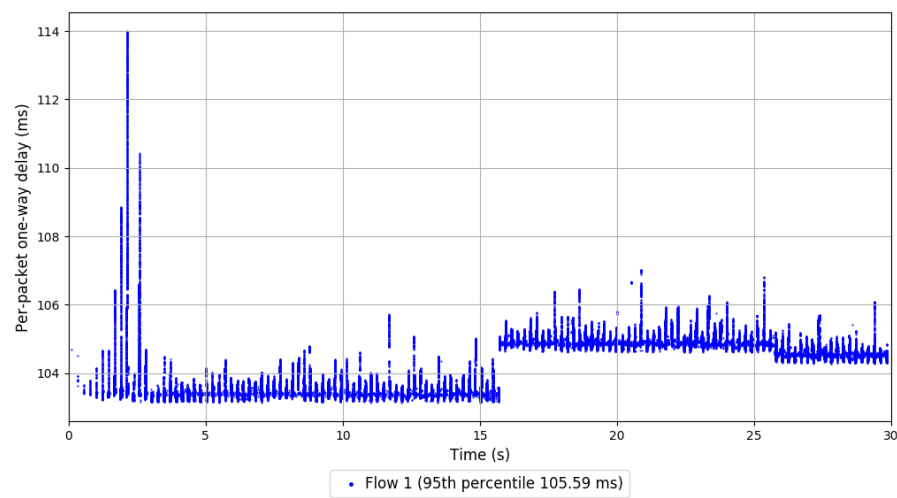
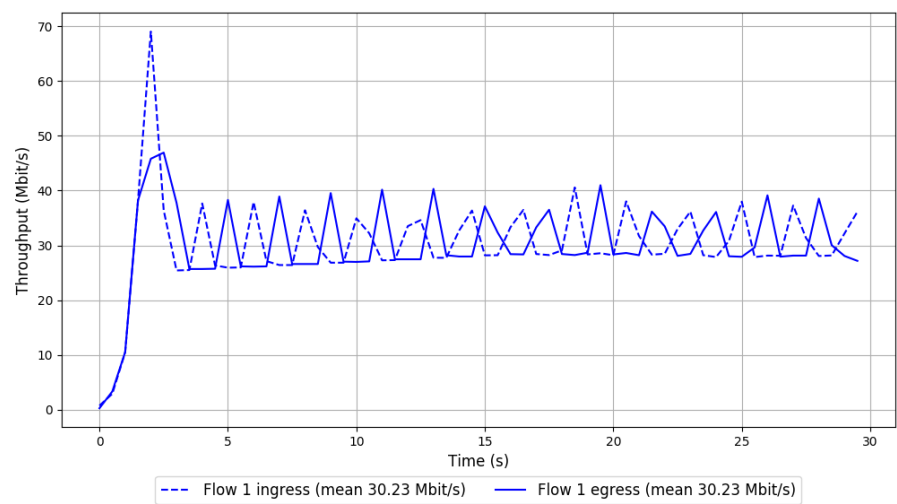
-- Flow 1:

Average throughput: 30.23 Mbit/s

95th percentile per-packet one-way delay: 105.592 ms

Loss rate: 0.76%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-20 08:13:38

End at: 2018-03-20 08:14:08

Below is generated by plot.py at 2018-03-20 11:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 110.448 ms

Loss rate: 0.75%

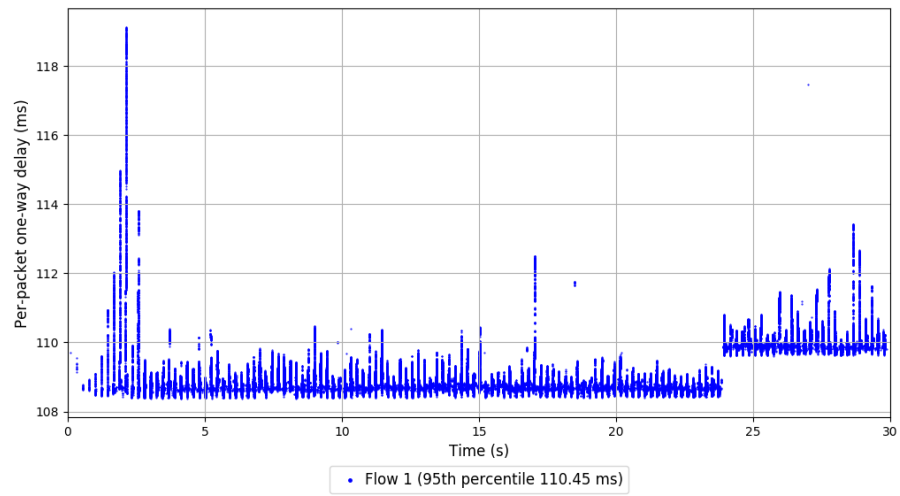
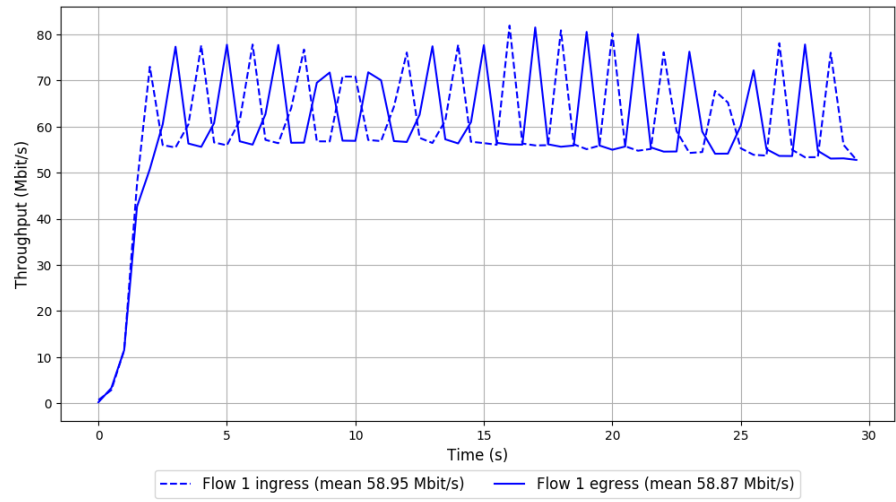
-- Flow 1:

Average throughput: 58.87 Mbit/s

95th percentile per-packet one-way delay: 110.448 ms

Loss rate: 0.75%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-20 05:54:49

End at: 2018-03-20 05:55:19

Below is generated by plot.py at 2018-03-20 11:28:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.23 Mbit/s

95th percentile per-packet one-way delay: 139.794 ms

Loss rate: 0.99%

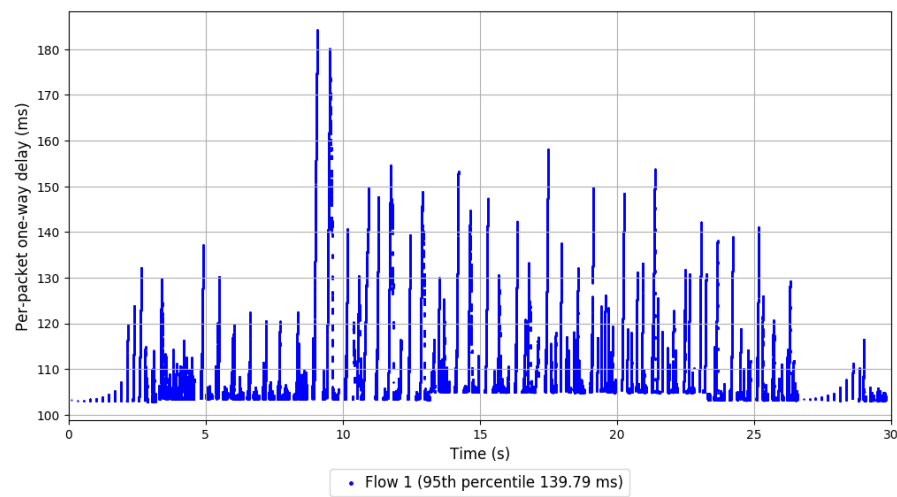
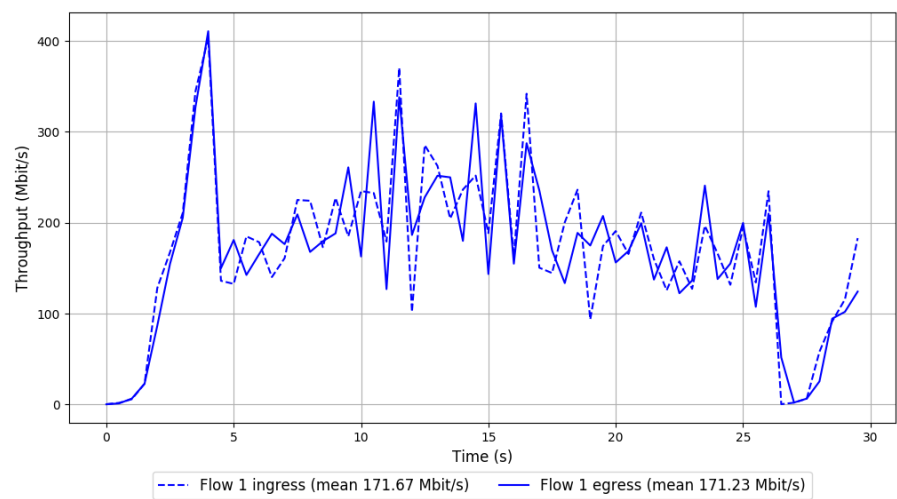
-- Flow 1:

Average throughput: 171.23 Mbit/s

95th percentile per-packet one-way delay: 139.794 ms

Loss rate: 0.99%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-20 06:10:15

End at: 2018-03-20 06:10:45

Below is generated by plot.py at 2018-03-20 11:28:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 104.014 ms

Loss rate: 0.02%

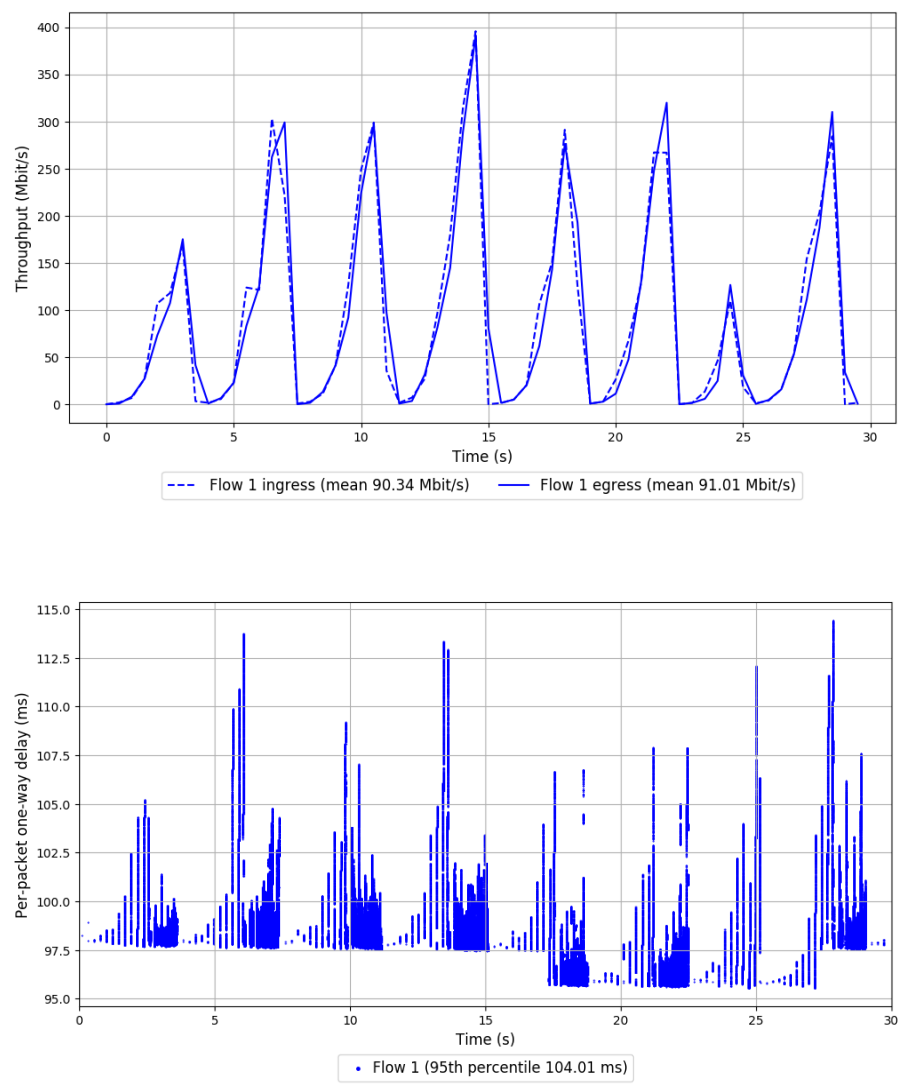
-- Flow 1:

Average throughput: 91.01 Mbit/s

95th percentile per-packet one-way delay: 104.014 ms

Loss rate: 0.02%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-20 06:25:27

End at: 2018-03-20 06:25:57

Below is generated by plot.py at 2018-03-20 11:28:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.61 Mbit/s

95th percentile per-packet one-way delay: 116.749 ms

Loss rate: 0.37%

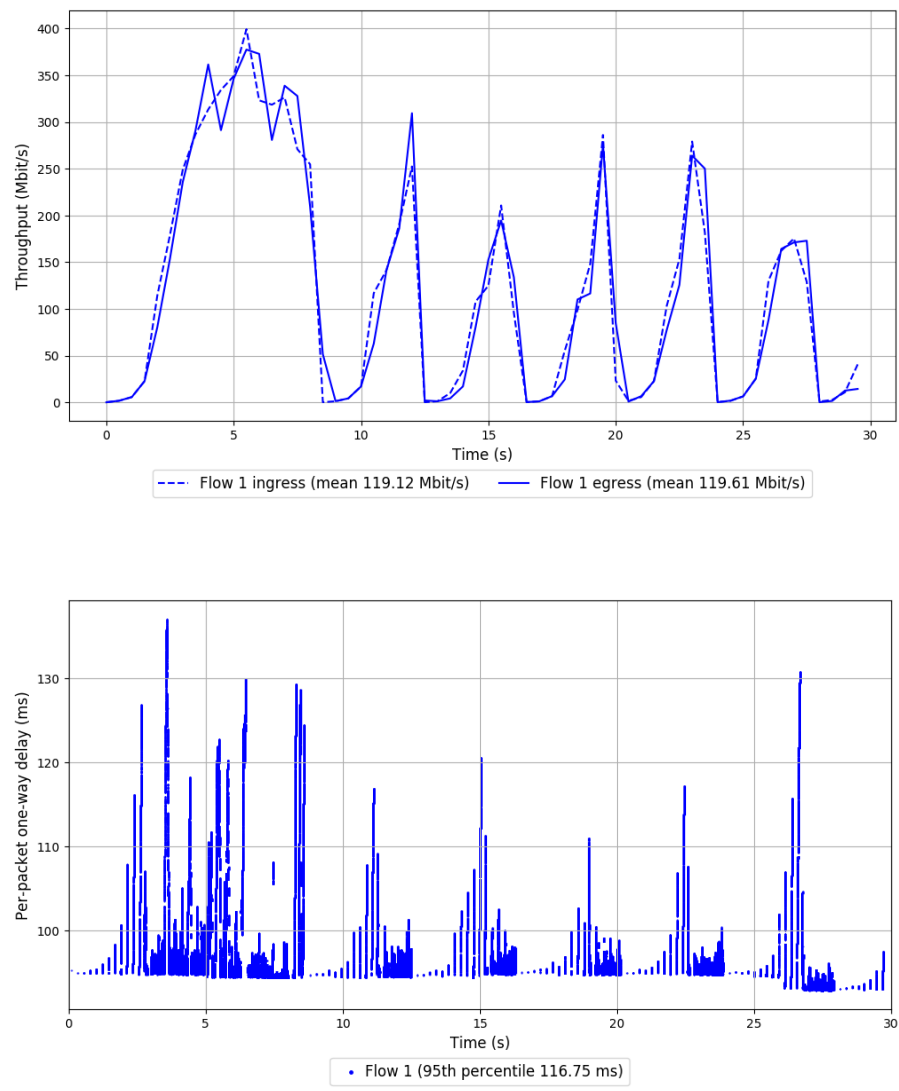
-- Flow 1:

Average throughput: 119.61 Mbit/s

95th percentile per-packet one-way delay: 116.749 ms

Loss rate: 0.37%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-20 06:40:57

End at: 2018-03-20 06:41:27

Below is generated by plot.py at 2018-03-20 11:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.48 Mbit/s

95th percentile per-packet one-way delay: 134.195 ms

Loss rate: 1.15%

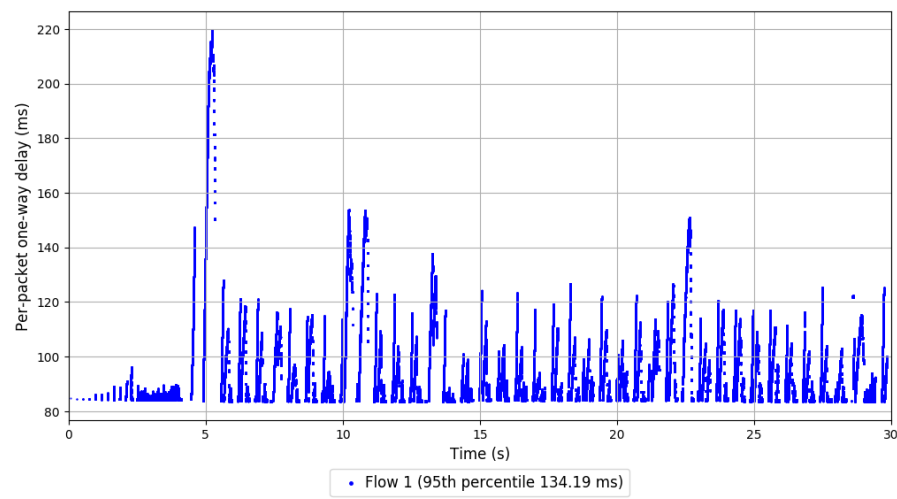
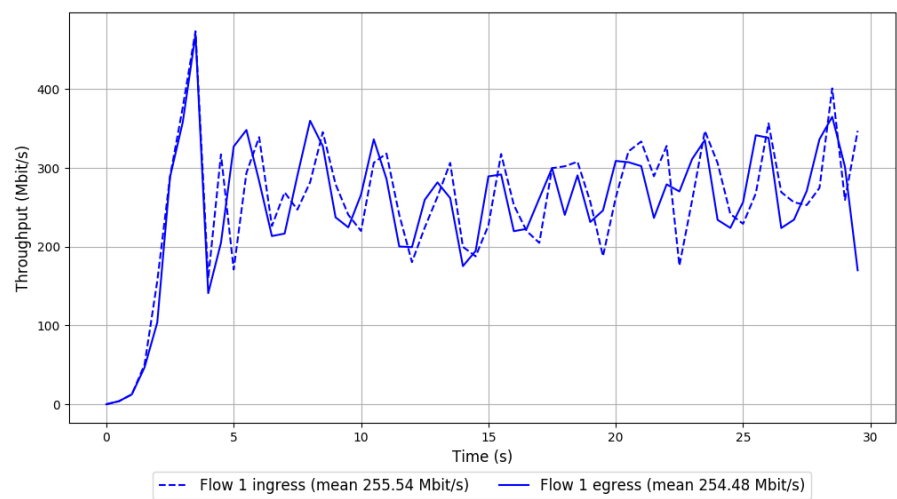
-- Flow 1:

Average throughput: 254.48 Mbit/s

95th percentile per-packet one-way delay: 134.195 ms

Loss rate: 1.15%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-20 06:56:52

End at: 2018-03-20 06:57:22

Below is generated by plot.py at 2018-03-20 11:30:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.67 Mbit/s

95th percentile per-packet one-way delay: 214.513 ms

Loss rate: 2.85%

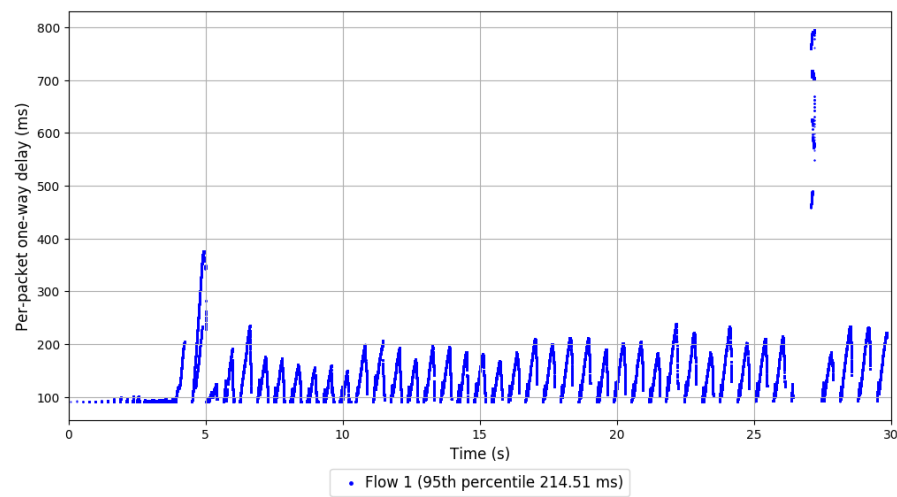
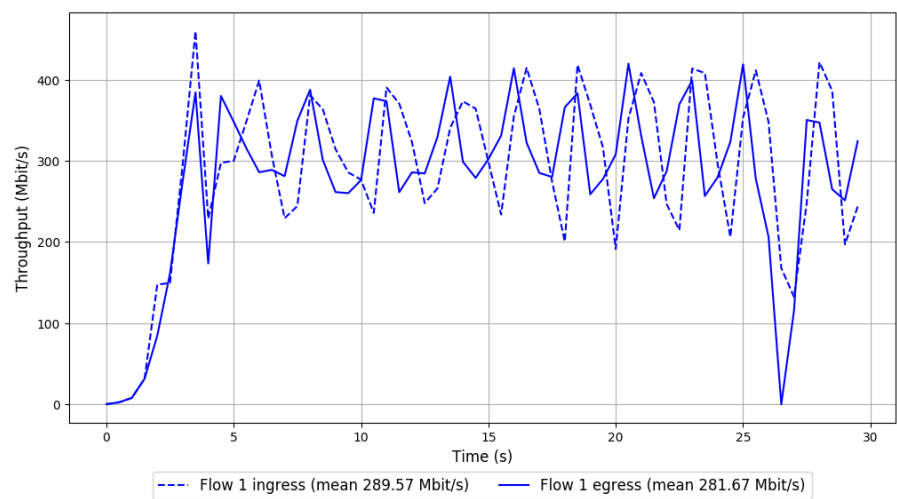
-- Flow 1:

Average throughput: 281.67 Mbit/s

95th percentile per-packet one-way delay: 214.513 ms

Loss rate: 2.85%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-20 07:12:28

End at: 2018-03-20 07:12:58

Below is generated by plot.py at 2018-03-20 11:30:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.74 Mbit/s

95th percentile per-packet one-way delay: 112.237 ms

Loss rate: 1.13%

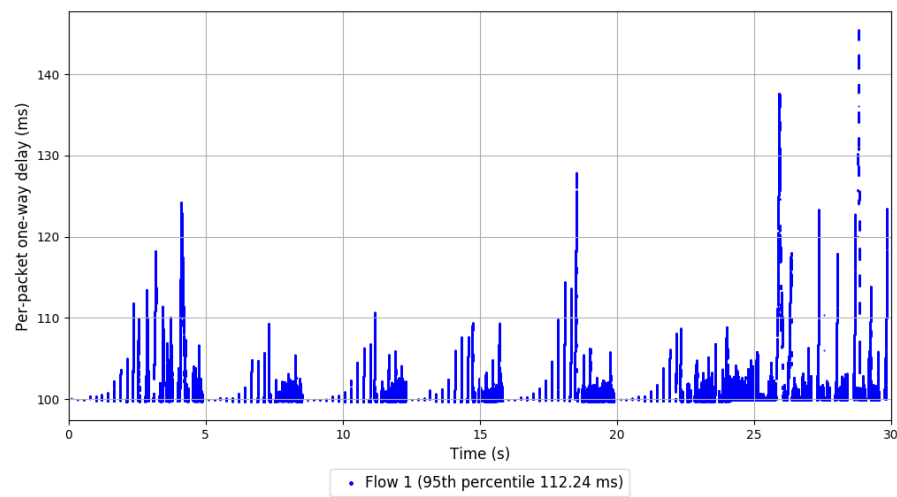
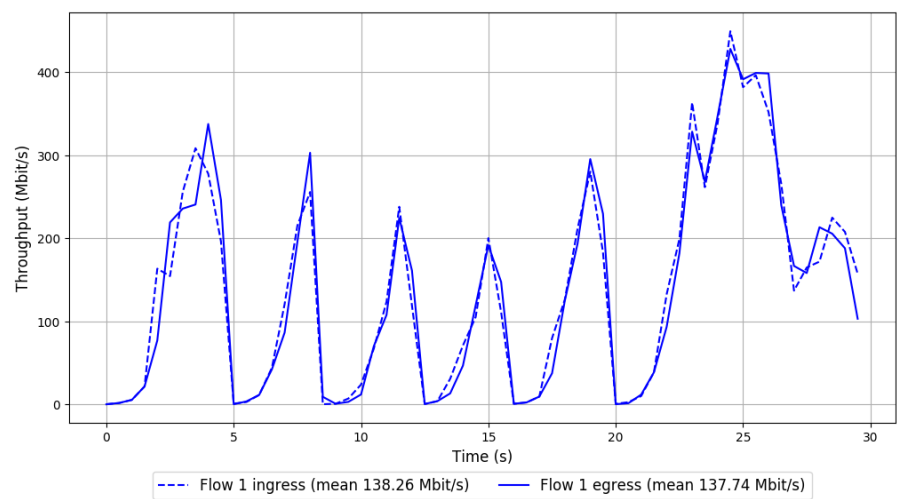
-- Flow 1:

Average throughput: 137.74 Mbit/s

95th percentile per-packet one-way delay: 112.237 ms

Loss rate: 1.13%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-20 07:27:44

End at: 2018-03-20 07:28:14

Below is generated by plot.py at 2018-03-20 11:30:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.17 Mbit/s

95th percentile per-packet one-way delay: 109.046 ms

Loss rate: 0.00%

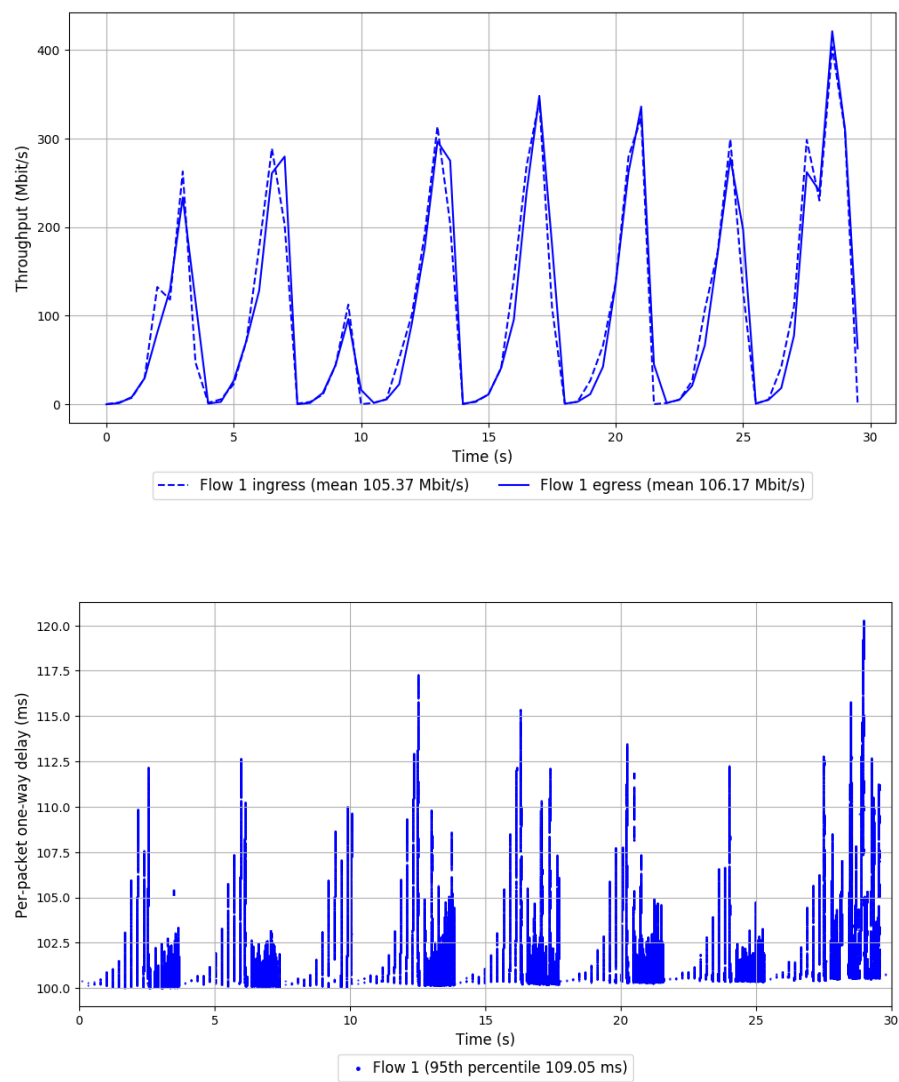
-- Flow 1:

Average throughput: 106.17 Mbit/s

95th percentile per-packet one-way delay: 109.046 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-20 07:43:03

End at: 2018-03-20 07:43:33

Below is generated by plot.py at 2018-03-20 11:30:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.40 Mbit/s

95th percentile per-packet one-way delay: 183.594 ms

Loss rate: 1.45%

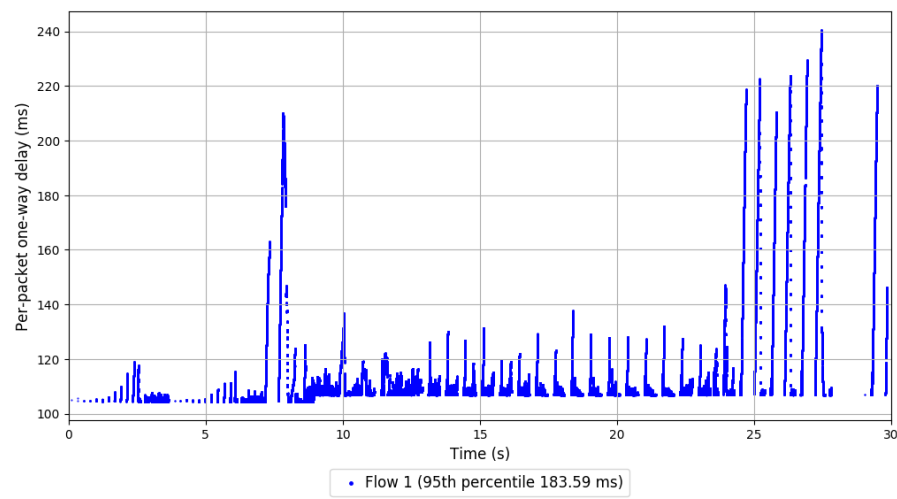
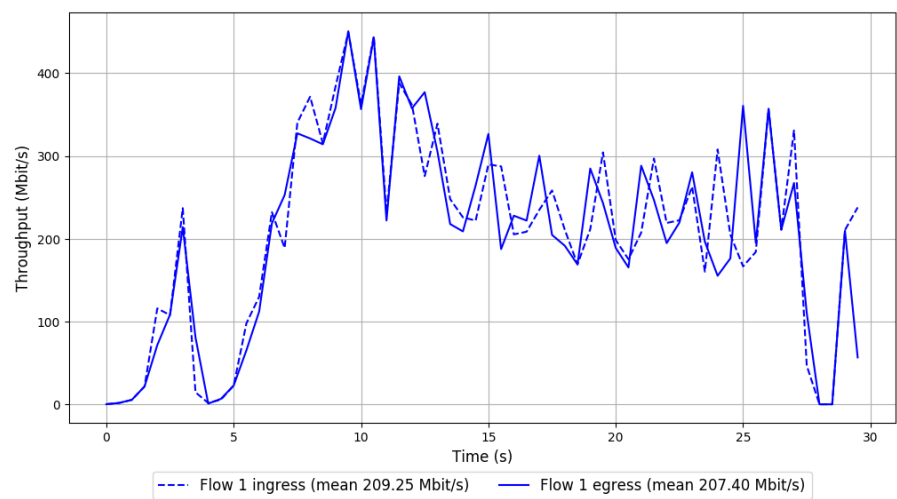
-- Flow 1:

Average throughput: 207.40 Mbit/s

95th percentile per-packet one-way delay: 183.594 ms

Loss rate: 1.45%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-20 07:58:39

End at: 2018-03-20 07:59:09

Below is generated by plot.py at 2018-03-20 11:30:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.46 Mbit/s

95th percentile per-packet one-way delay: 137.176 ms

Loss rate: 0.63%

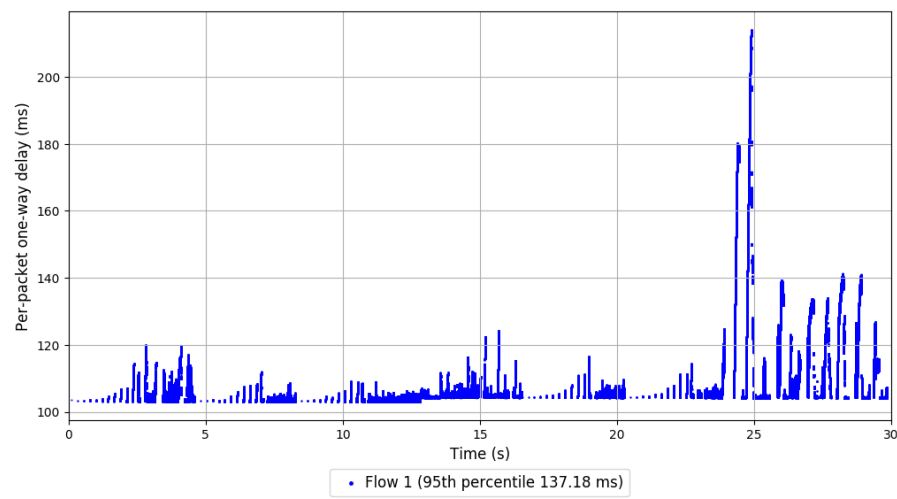
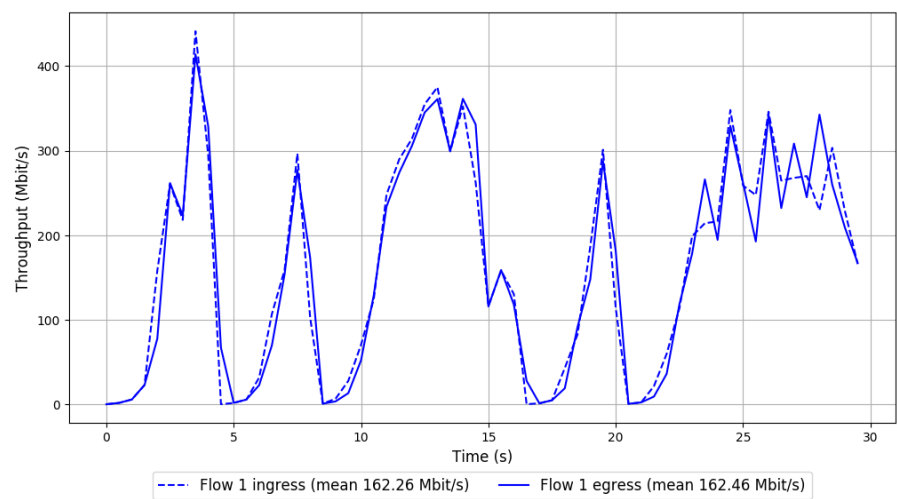
-- Flow 1:

Average throughput: 162.46 Mbit/s

95th percentile per-packet one-way delay: 137.176 ms

Loss rate: 0.63%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-20 08:14:23

End at: 2018-03-20 08:14:53

Below is generated by plot.py at 2018-03-20 11:30:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.98 Mbit/s

95th percentile per-packet one-way delay: 149.698 ms

Loss rate: 0.62%

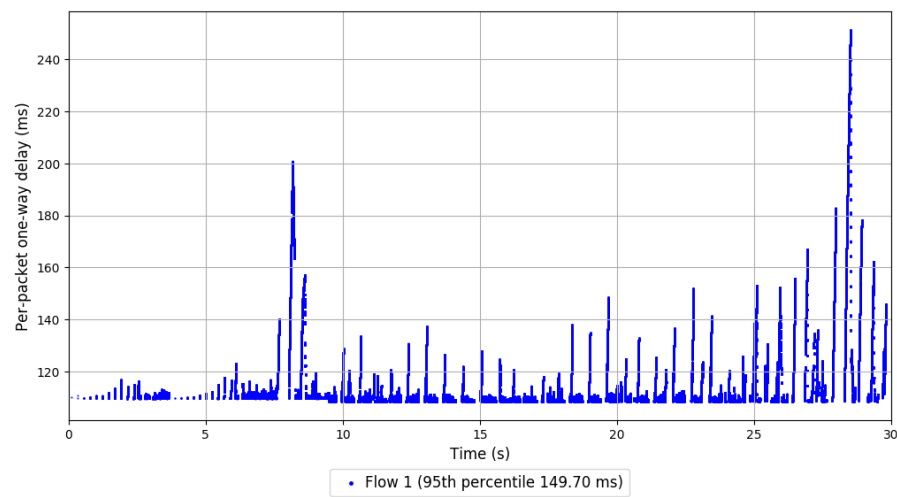
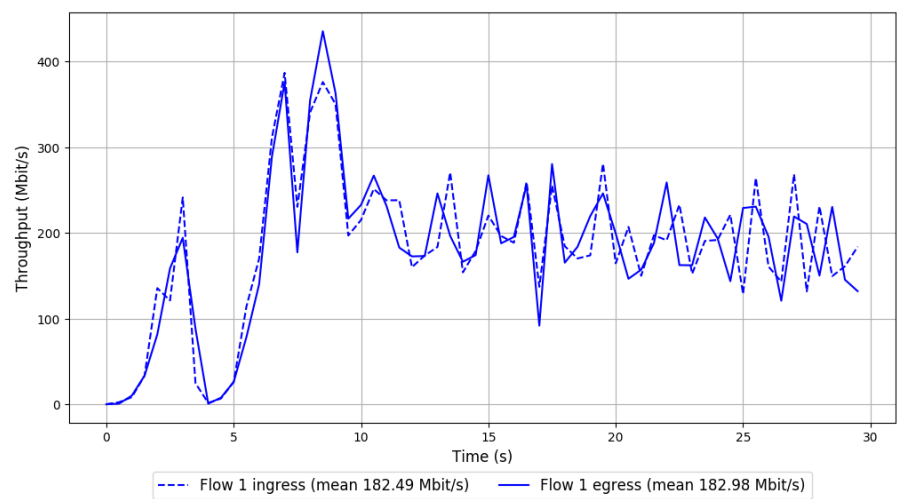
-- Flow 1:

Average throughput: 182.98 Mbit/s

95th percentile per-packet one-way delay: 149.698 ms

Loss rate: 0.62%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-20 05:52:36

End at: 2018-03-20 05:53:06

Below is generated by plot.py at 2018-03-20 11:31:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 105.384 ms

Loss rate: 0.76%

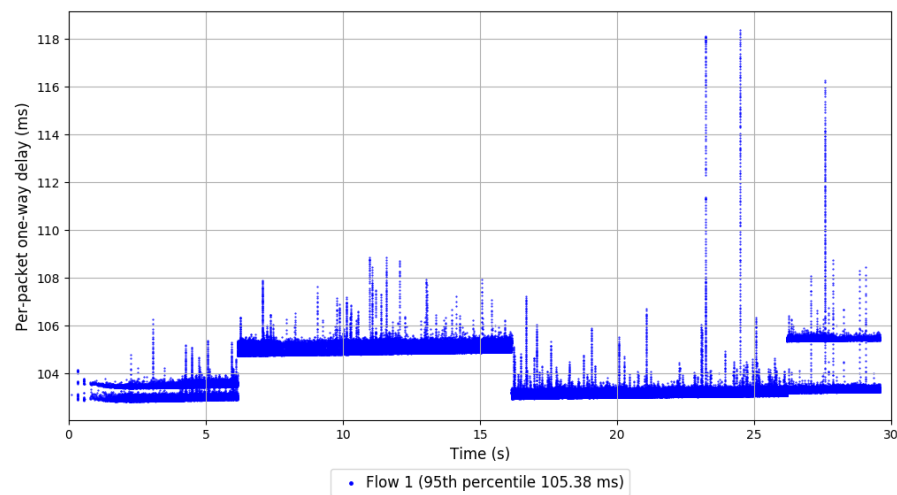
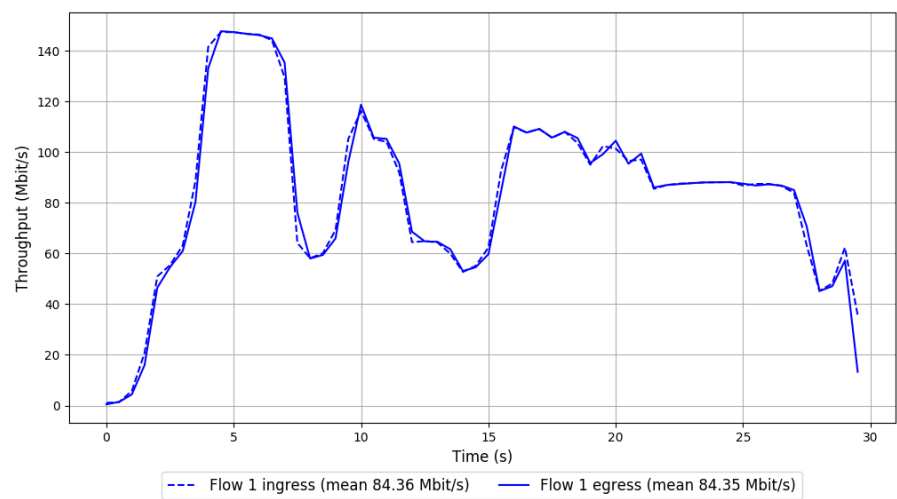
-- Flow 1:

Average throughput: 84.35 Mbit/s

95th percentile per-packet one-way delay: 105.384 ms

Loss rate: 0.76%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-20 06:08:01

End at: 2018-03-20 06:08:31

Below is generated by plot.py at 2018-03-20 11:31:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.23 Mbit/s

95th percentile per-packet one-way delay: 100.144 ms

Loss rate: 0.80%

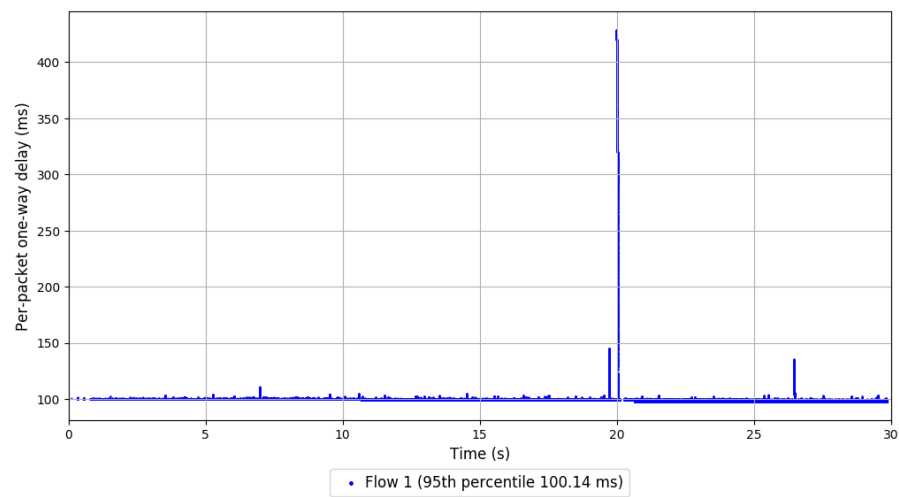
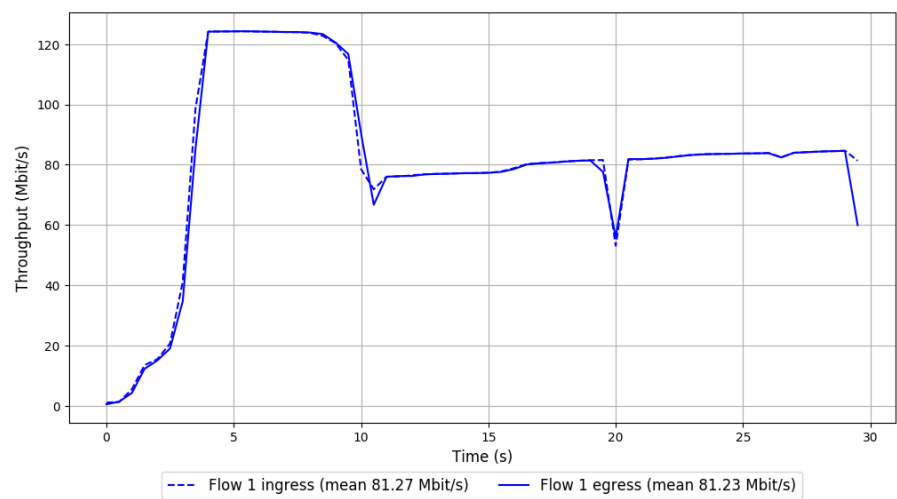
-- Flow 1:

Average throughput: 81.23 Mbit/s

95th percentile per-packet one-way delay: 100.144 ms

Loss rate: 0.80%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-20 06:23:12

End at: 2018-03-20 06:23:42

Below is generated by plot.py at 2018-03-20 11:31:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.13 Mbit/s

95th percentile per-packet one-way delay: 94.799 ms

Loss rate: 0.77%

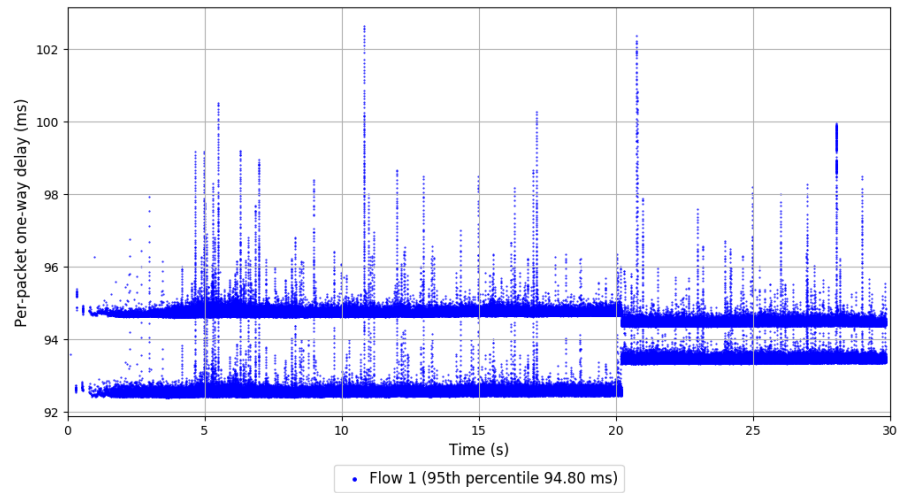
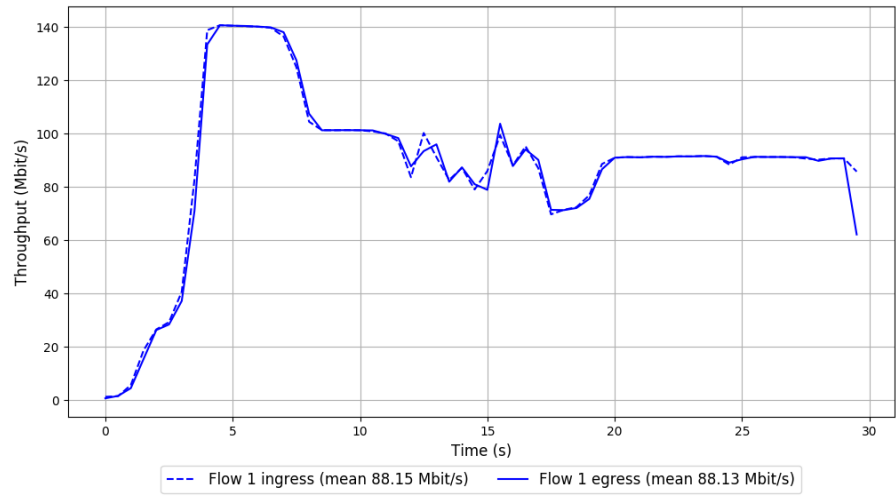
-- Flow 1:

Average throughput: 88.13 Mbit/s

95th percentile per-packet one-way delay: 94.799 ms

Loss rate: 0.77%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-20 06:38:44

End at: 2018-03-20 06:39:14

Below is generated by plot.py at 2018-03-20 11:32:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.99 Mbit/s

95th percentile per-packet one-way delay: 86.645 ms

Loss rate: 0.75%

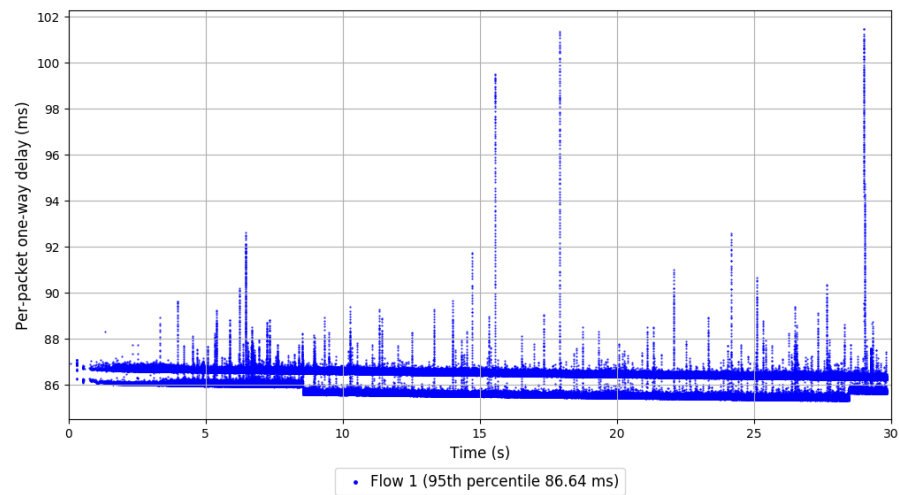
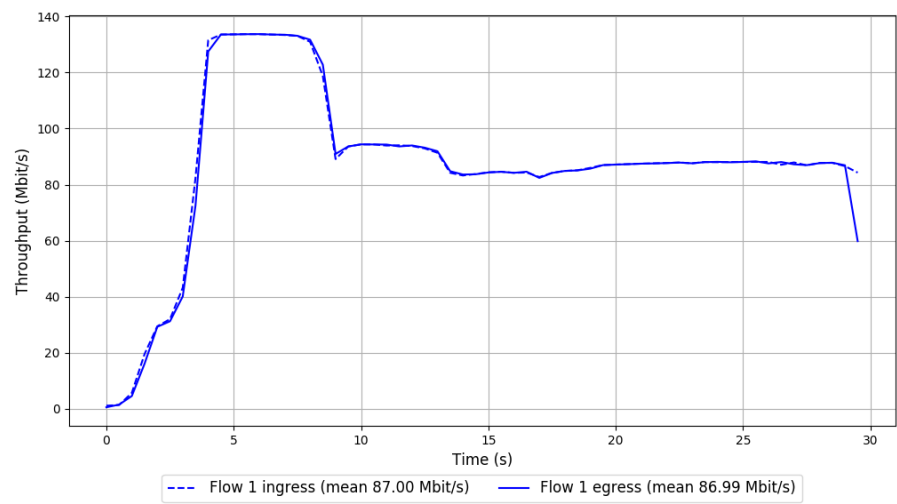
-- Flow 1:

Average throughput: 86.99 Mbit/s

95th percentile per-packet one-way delay: 86.645 ms

Loss rate: 0.75%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-20 06:54:39

End at: 2018-03-20 06:55:09

Below is generated by plot.py at 2018-03-20 11:32:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.36 Mbit/s

95th percentile per-packet one-way delay: 87.239 ms

Loss rate: 0.85%

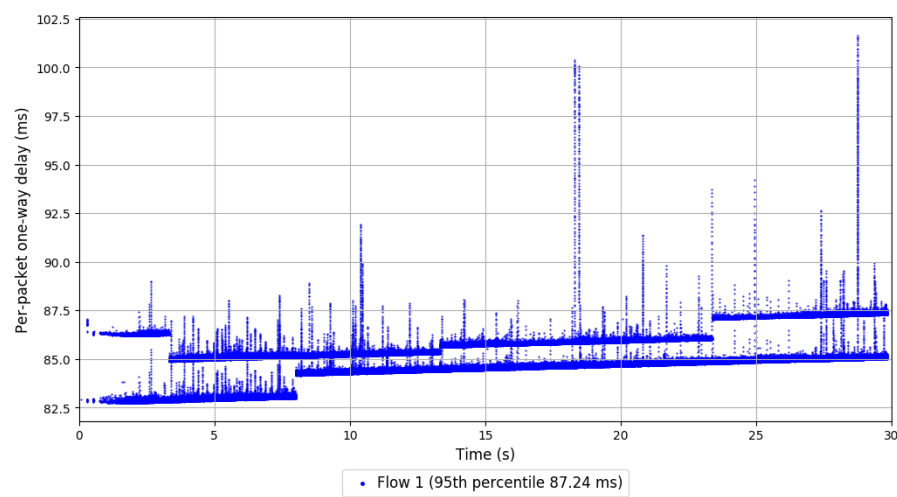
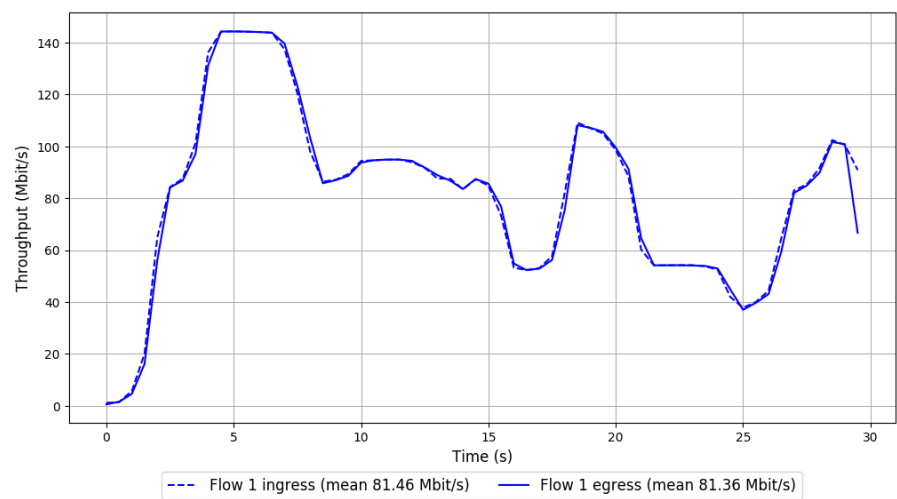
-- Flow 1:

Average throughput: 81.36 Mbit/s

95th percentile per-packet one-way delay: 87.239 ms

Loss rate: 0.85%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-20 07:10:16

End at: 2018-03-20 07:10:46

Below is generated by plot.py at 2018-03-20 11:32:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.17 Mbit/s

95th percentile per-packet one-way delay: 100.114 ms

Loss rate: 0.83%

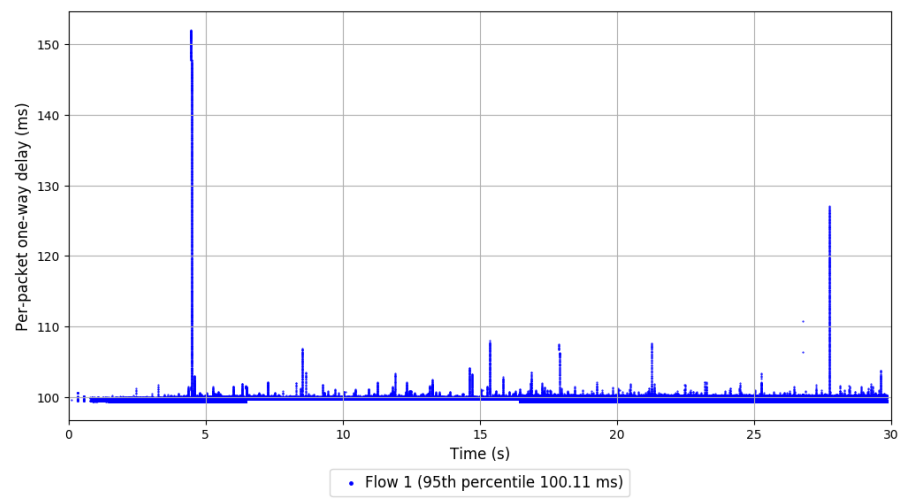
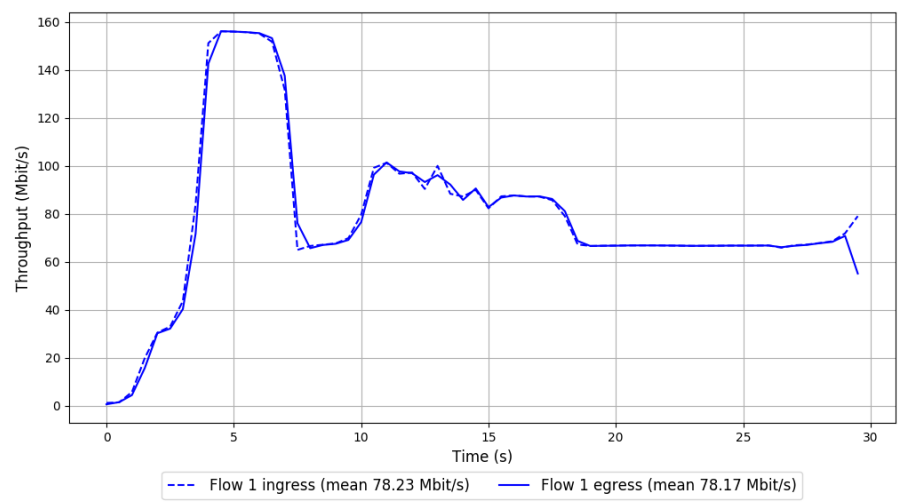
-- Flow 1:

Average throughput: 78.17 Mbit/s

95th percentile per-packet one-way delay: 100.114 ms

Loss rate: 0.83%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-20 07:25:31

End at: 2018-03-20 07:26:01

Below is generated by plot.py at 2018-03-20 11:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.05 Mbit/s

95th percentile per-packet one-way delay: 97.538 ms

Loss rate: 0.79%

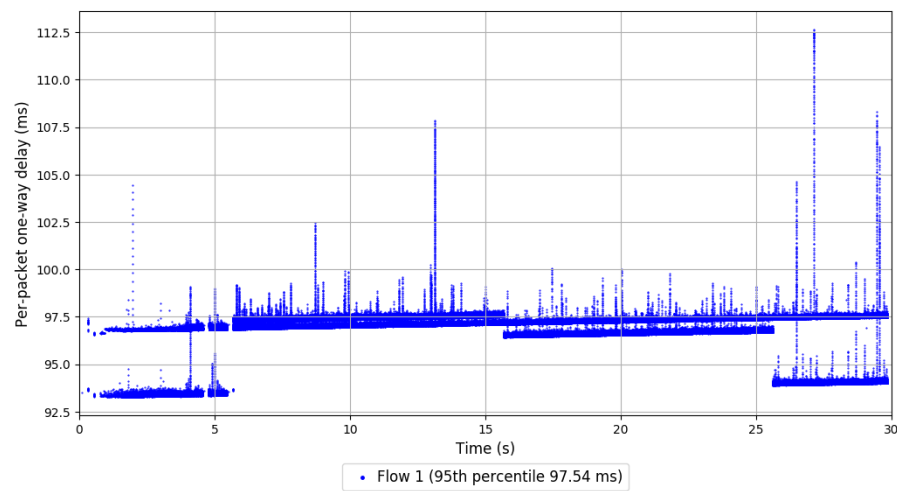
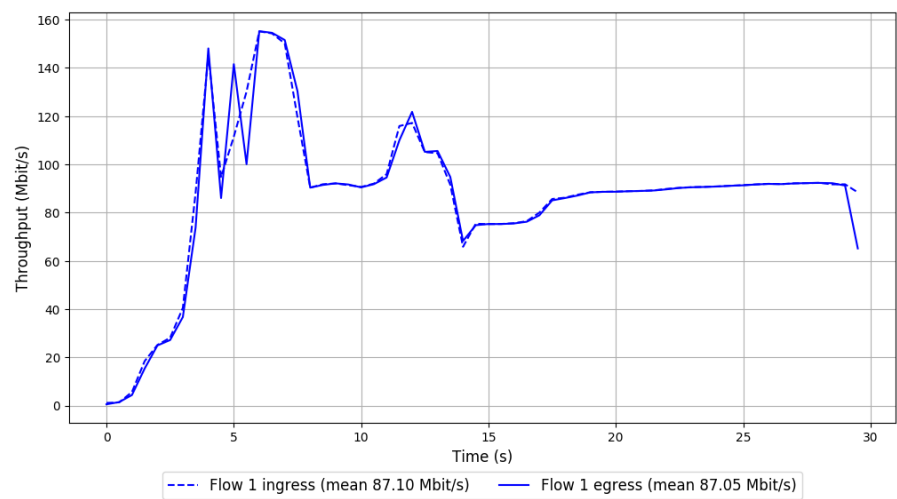
-- Flow 1:

Average throughput: 87.05 Mbit/s

95th percentile per-packet one-way delay: 97.538 ms

Loss rate: 0.79%

Run 7: Report of Copa — Data Link

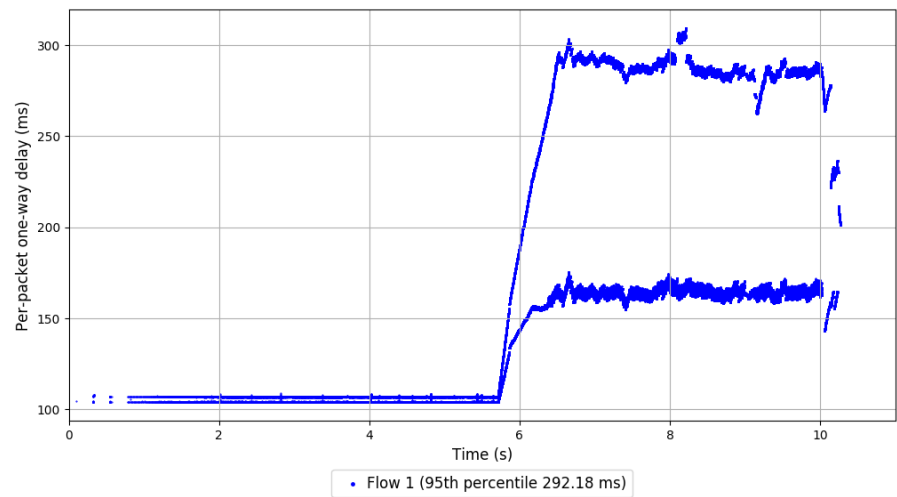
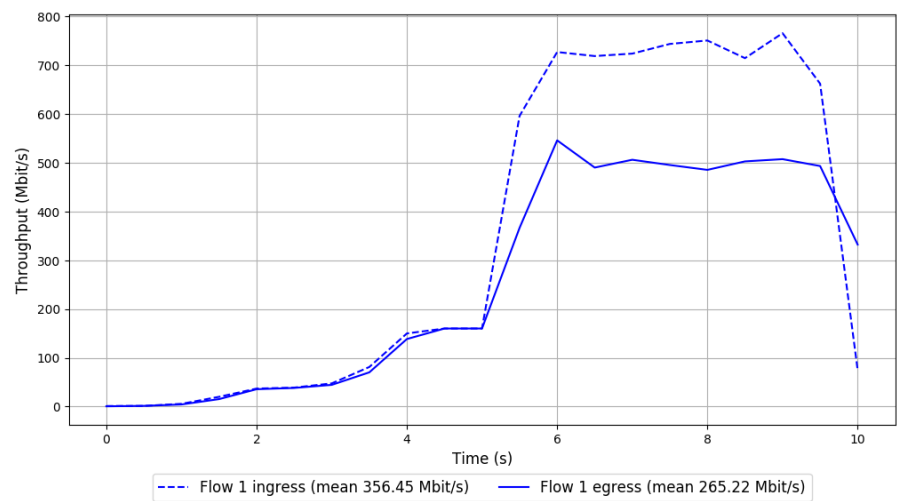


Run 8: Statistics of Copa

Start at: 2018-03-20 07:40:50

End at: 2018-03-20 07:41:20

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-20 07:56:28

End at: 2018-03-20 07:56:58

Below is generated by plot.py at 2018-03-20 11:33:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 105.580 ms

Loss rate: 0.16%

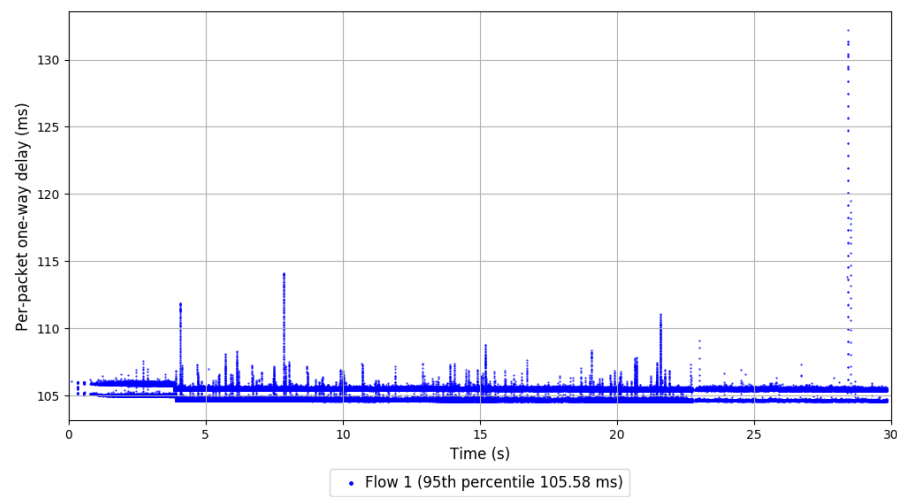
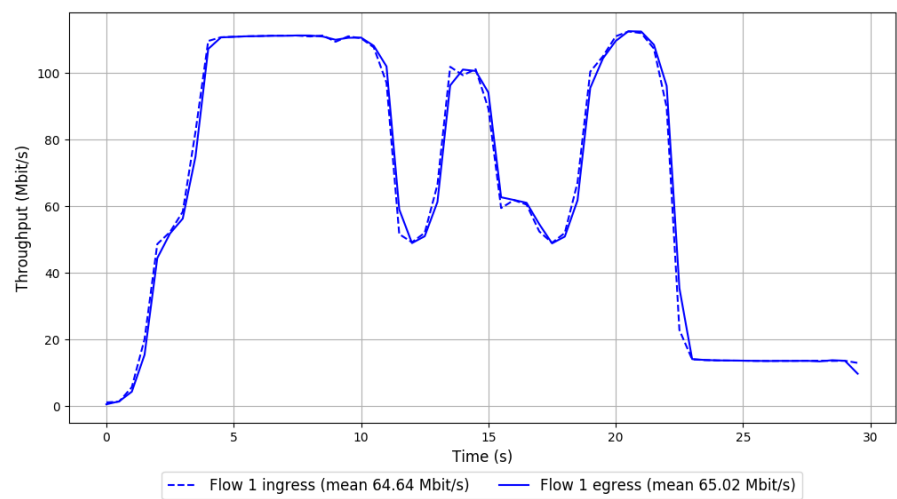
-- Flow 1:

Average throughput: 65.02 Mbit/s

95th percentile per-packet one-way delay: 105.580 ms

Loss rate: 0.16%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

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

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

Below is generated by plot.py at 2018-03-20 11:33:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 110.746 ms

Loss rate: 0.81%

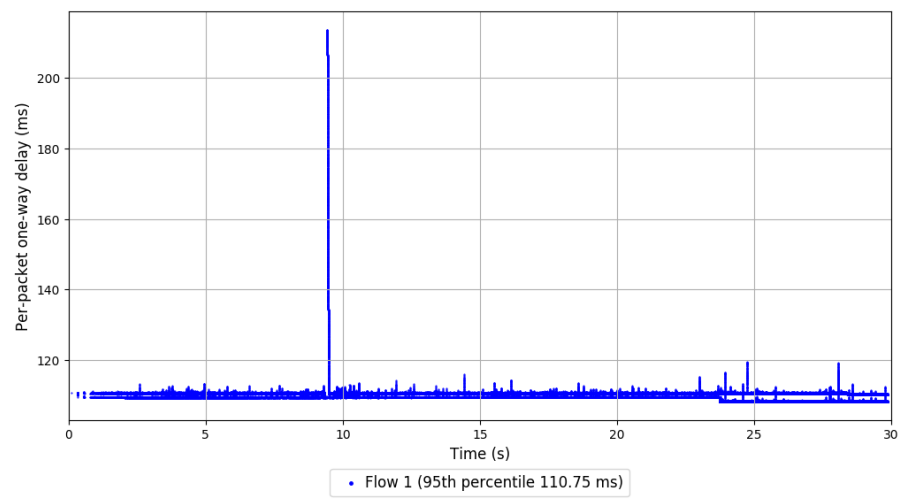
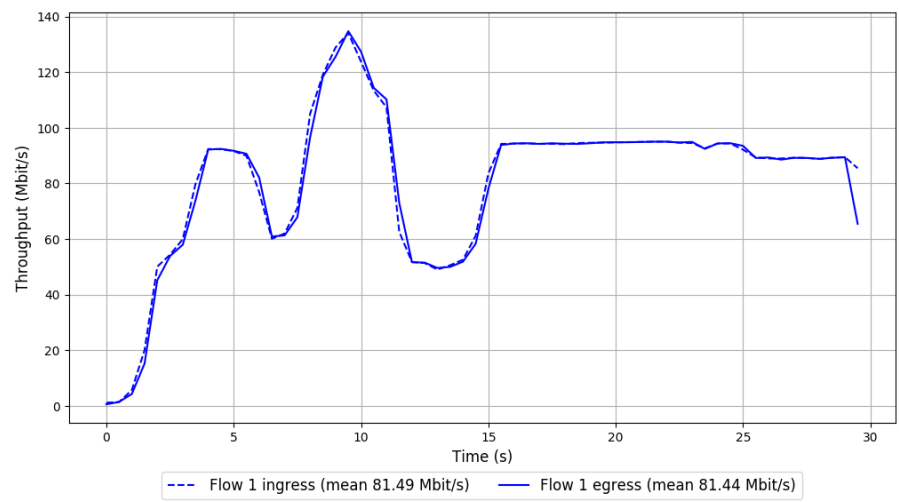
-- Flow 1:

Average throughput: 81.44 Mbit/s

95th percentile per-packet one-way delay: 110.746 ms

Loss rate: 0.81%

Run 10: Report of Copa — Data Link

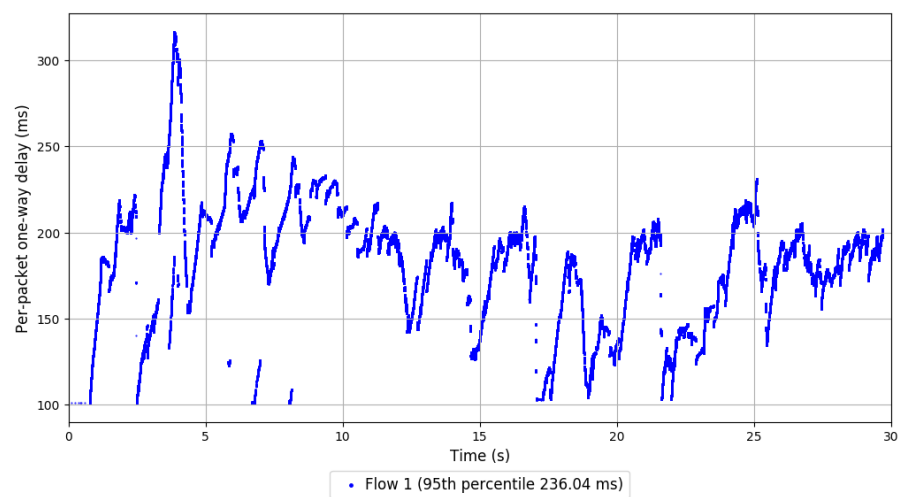
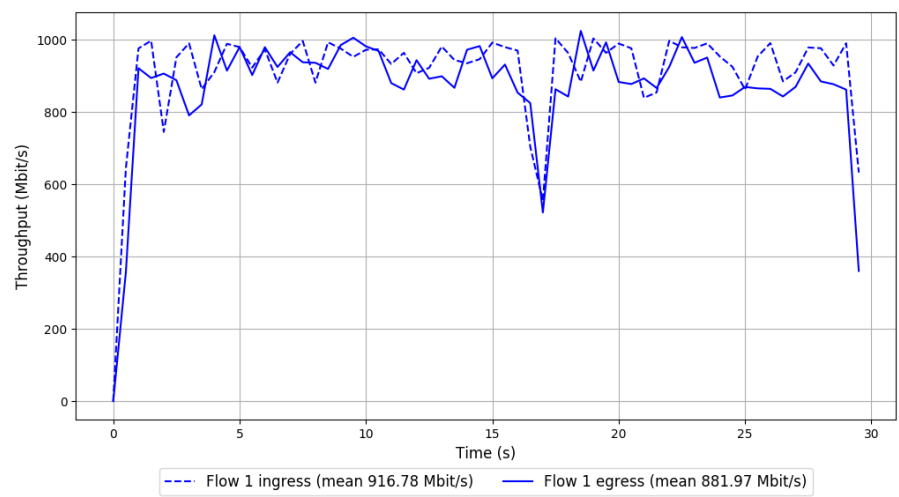


```
Run 1: Statistics of FillP

Start at: 2018-03-20 05:51:20
End at: 2018-03-20 05:51:50

# Below is generated by plot.py at 2018-03-20 11:47:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 881.97 Mbit/s
95th percentile per-packet one-way delay: 236.036 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 881.97 Mbit/s
95th percentile per-packet one-way delay: 236.036 ms
Loss rate: 4.51%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-20 06:06:45

End at: 2018-03-20 06:07:15

Below is generated by plot.py at 2018-03-20 11:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 874.88 Mbit/s

95th percentile per-packet one-way delay: 289.685 ms

Loss rate: 3.74%

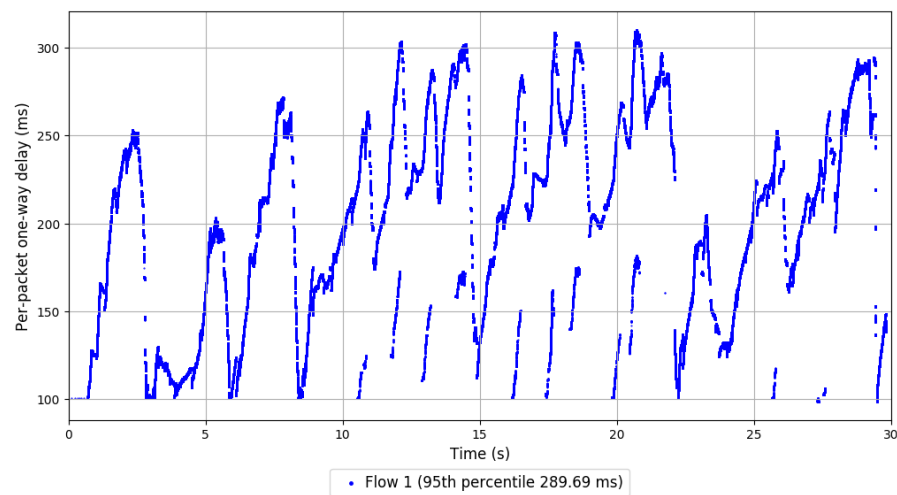
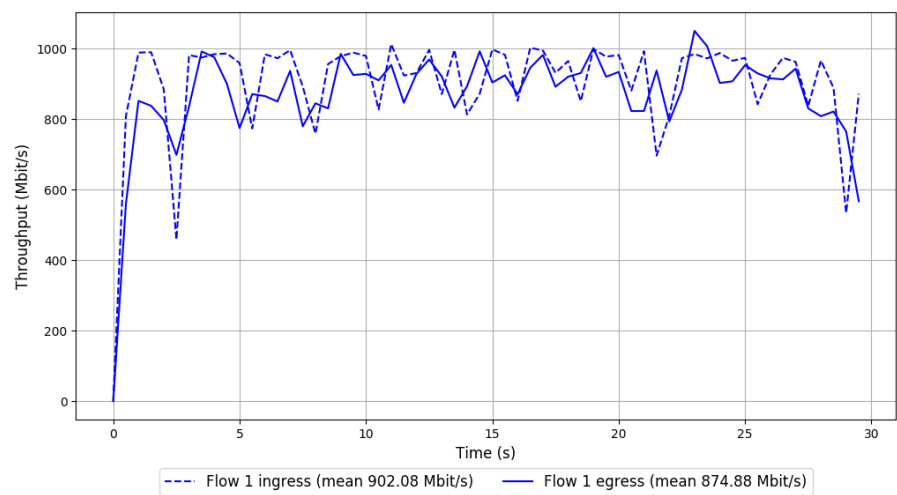
-- Flow 1:

Average throughput: 874.88 Mbit/s

95th percentile per-packet one-way delay: 289.685 ms

Loss rate: 3.74%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-20 06:21:57

End at: 2018-03-20 06:22:27

Below is generated by plot.py at 2018-03-20 11:47:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 813.01 Mbit/s

95th percentile per-packet one-way delay: 196.992 ms

Loss rate: 9.70%

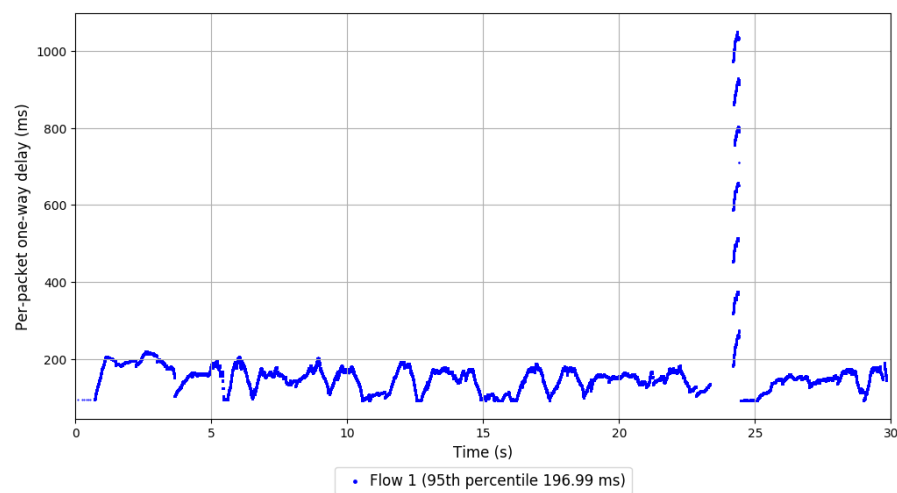
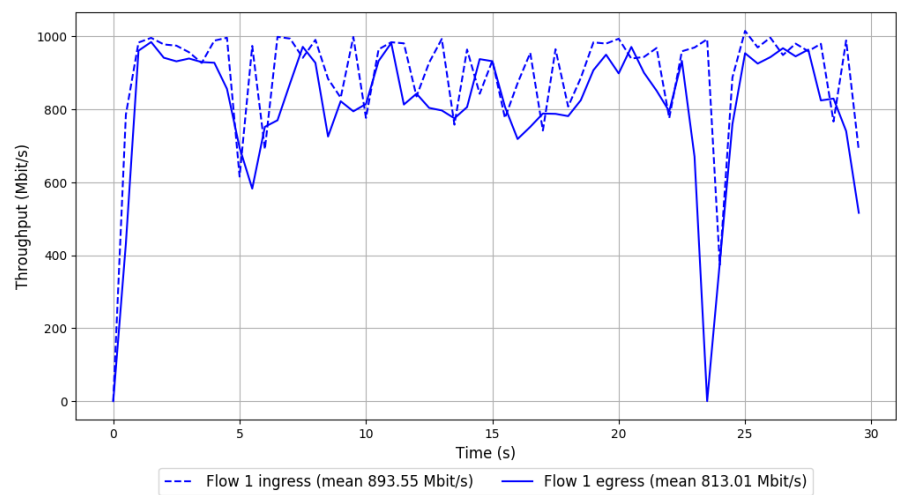
-- Flow 1:

Average throughput: 813.01 Mbit/s

95th percentile per-packet one-way delay: 196.992 ms

Loss rate: 9.70%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-20 06:37:29

End at: 2018-03-20 06:37:59

Below is generated by plot.py at 2018-03-20 11:47:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 864.73 Mbit/s

95th percentile per-packet one-way delay: 198.964 ms

Loss rate: 2.67%

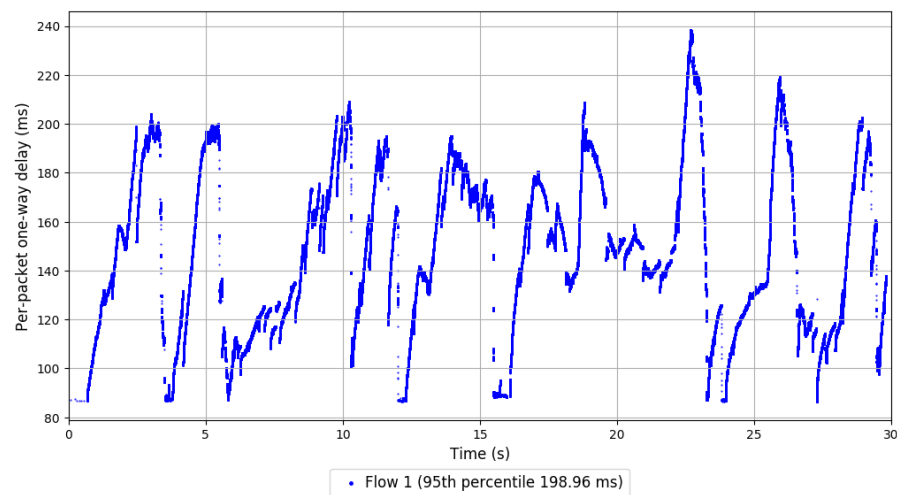
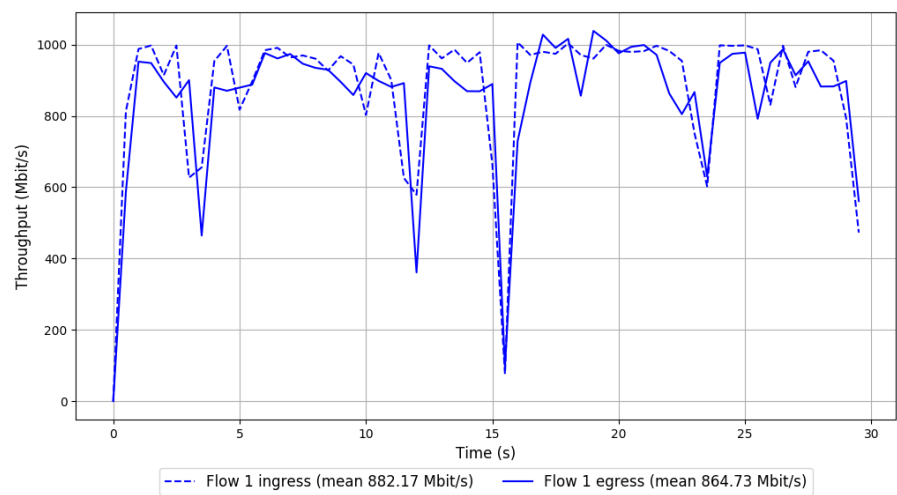
-- Flow 1:

Average throughput: 864.73 Mbit/s

95th percentile per-packet one-way delay: 198.964 ms

Loss rate: 2.67%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-20 06:53:23

End at: 2018-03-20 06:53:53

Below is generated by plot.py at 2018-03-20 11:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 872.89 Mbit/s

95th percentile per-packet one-way delay: 251.864 ms

Loss rate: 4.63%

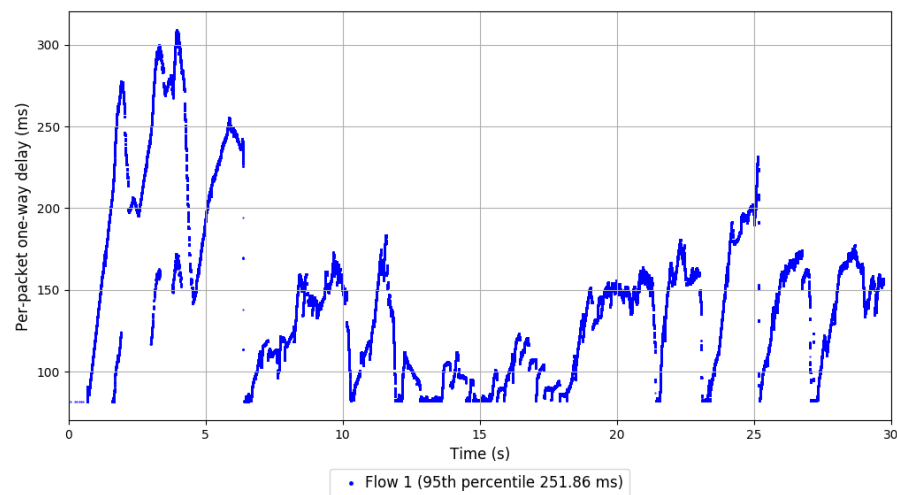
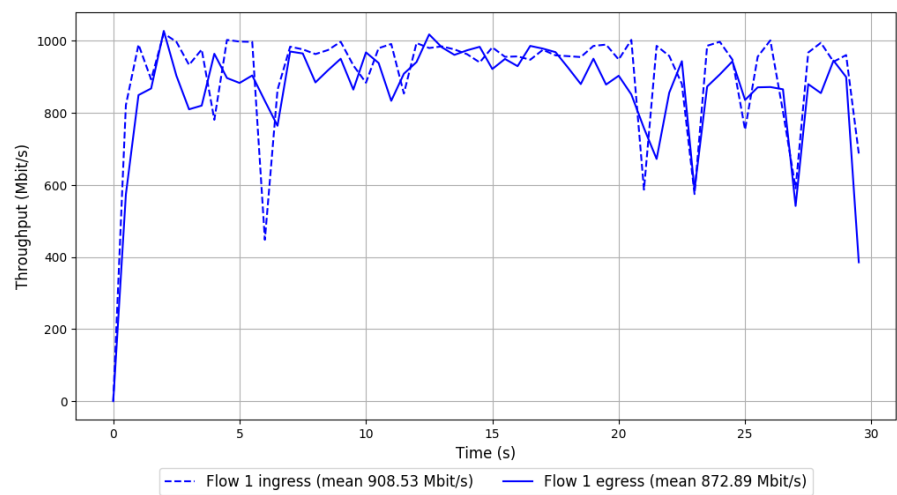
-- Flow 1:

Average throughput: 872.89 Mbit/s

95th percentile per-packet one-way delay: 251.864 ms

Loss rate: 4.63%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-20 07:09:00

End at: 2018-03-20 07:09:30

Below is generated by plot.py at 2018-03-20 11:48:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 877.43 Mbit/s

95th percentile per-packet one-way delay: 289.608 ms

Loss rate: 4.65%

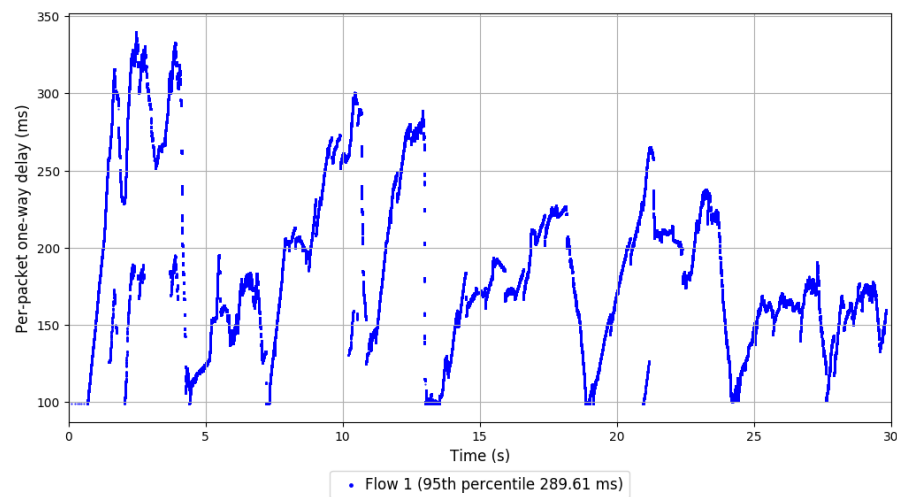
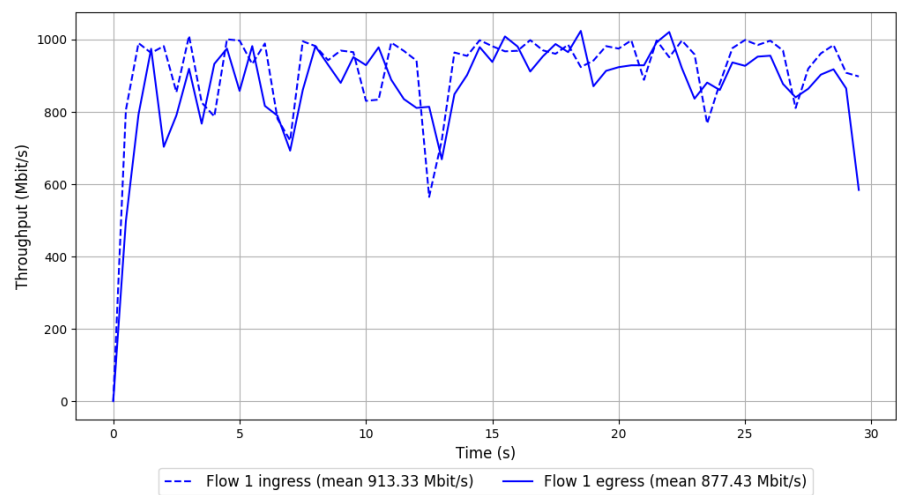
-- Flow 1:

Average throughput: 877.43 Mbit/s

95th percentile per-packet one-way delay: 289.608 ms

Loss rate: 4.65%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-20 07:24:31

End at: 2018-03-20 07:25:01

Below is generated by plot.py at 2018-03-20 11:48:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.99 Mbit/s

95th percentile per-packet one-way delay: 340.695 ms

Loss rate: 5.90%

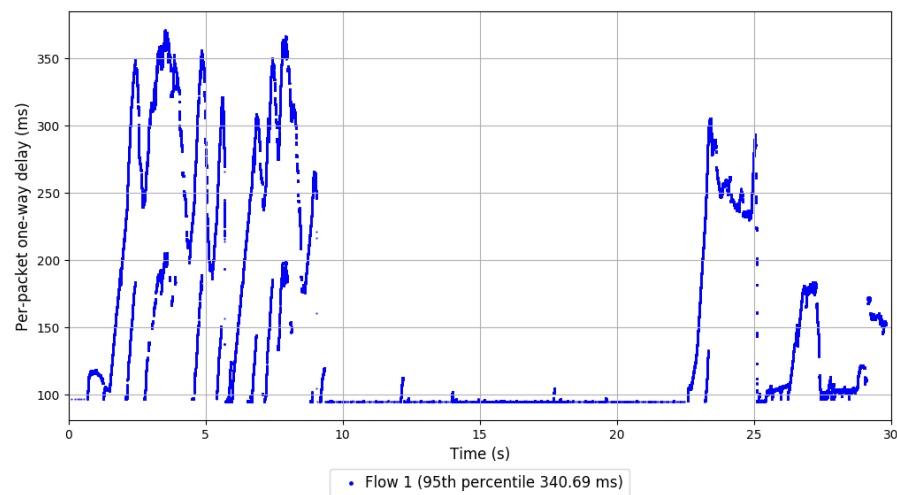
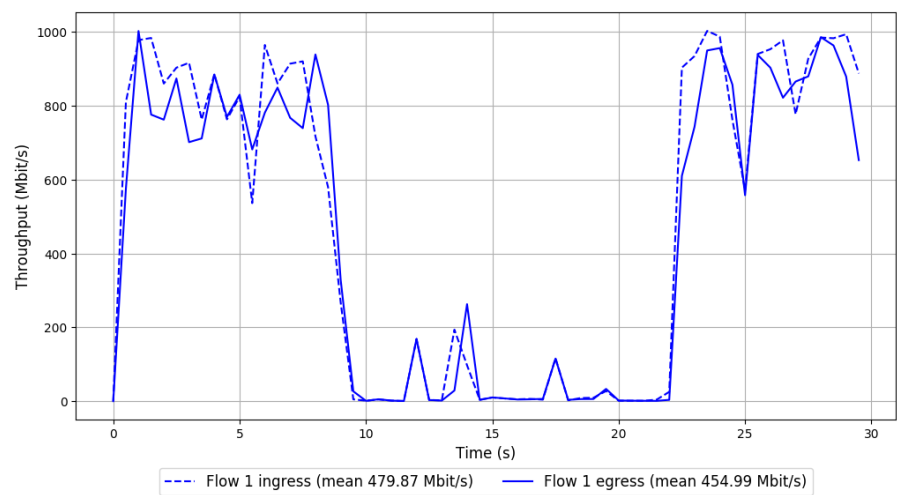
-- Flow 1:

Average throughput: 454.99 Mbit/s

95th percentile per-packet one-way delay: 340.695 ms

Loss rate: 5.90%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-20 07:39:35

End at: 2018-03-20 07:40:05

Below is generated by plot.py at 2018-03-20 11:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 880.22 Mbit/s

95th percentile per-packet one-way delay: 233.199 ms

Loss rate: 4.32%

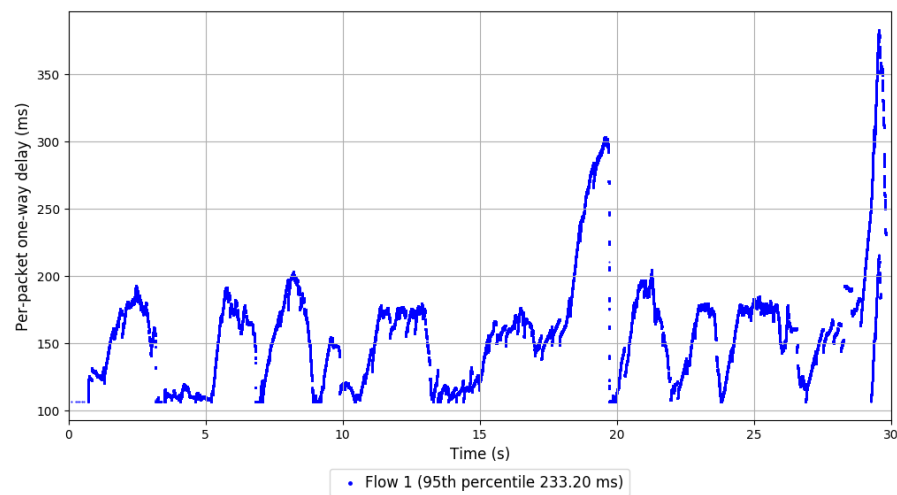
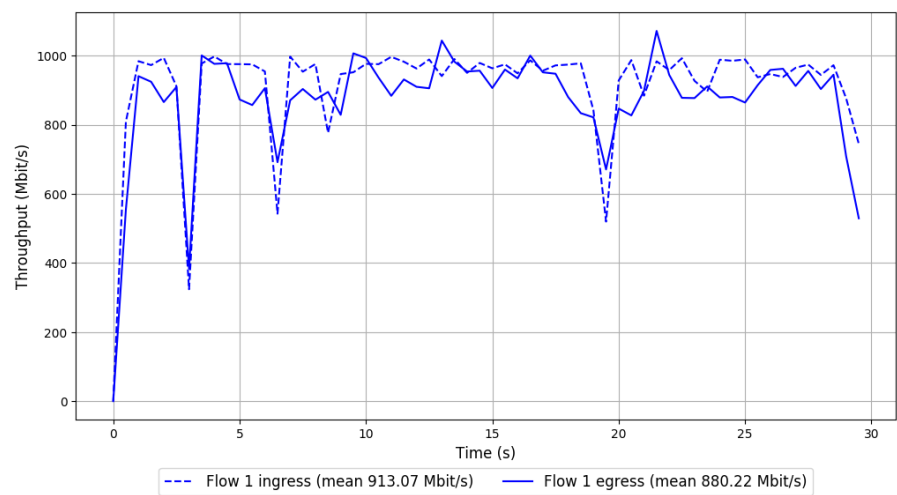
-- Flow 1:

Average throughput: 880.22 Mbit/s

95th percentile per-packet one-way delay: 233.199 ms

Loss rate: 4.32%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-20 07:55:12

End at: 2018-03-20 07:55:42

Below is generated by plot.py at 2018-03-20 11:58:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 882.84 Mbit/s

95th percentile per-packet one-way delay: 247.356 ms

Loss rate: 4.11%

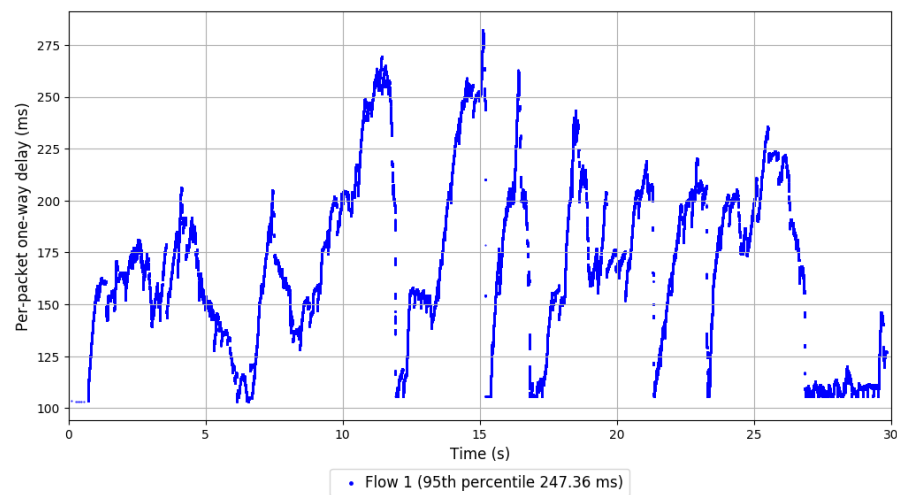
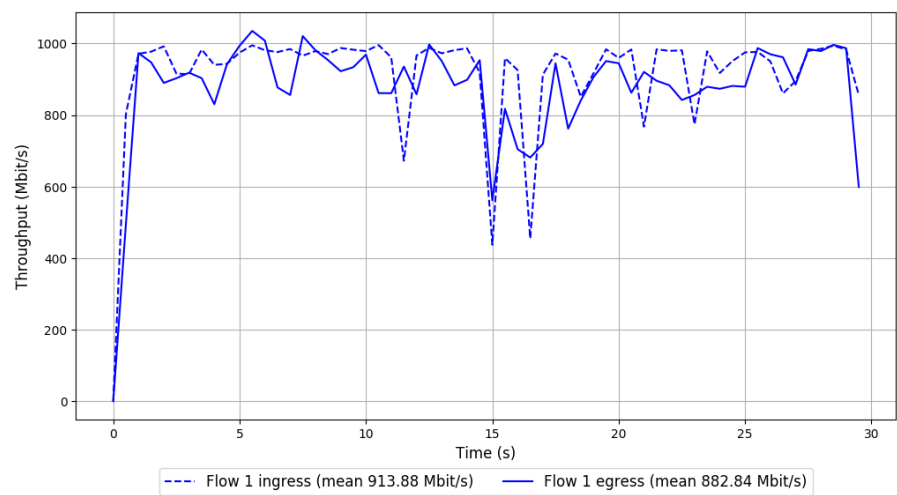
-- Flow 1:

Average throughput: 882.84 Mbit/s

95th percentile per-packet one-way delay: 247.356 ms

Loss rate: 4.11%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-20 08:10:51

End at: 2018-03-20 08:11:21

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 870.24 Mbit/s

95th percentile per-packet one-way delay: 304.809 ms

Loss rate: 3.97%

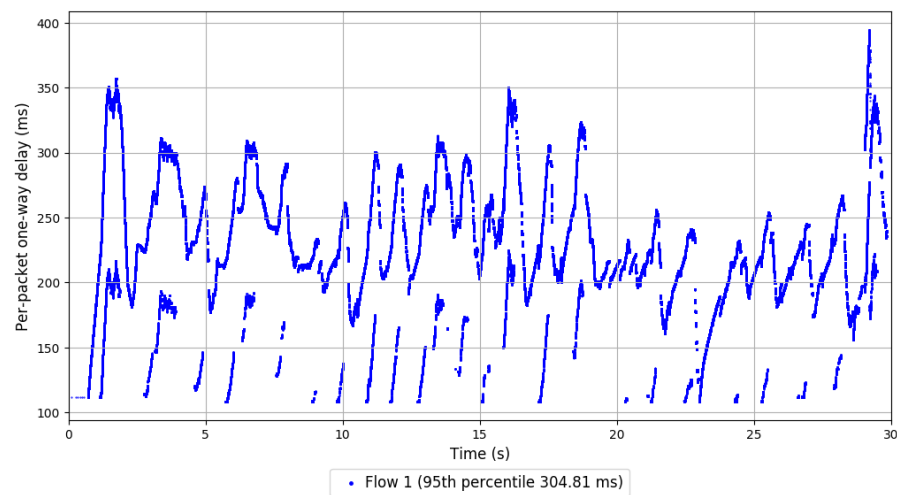
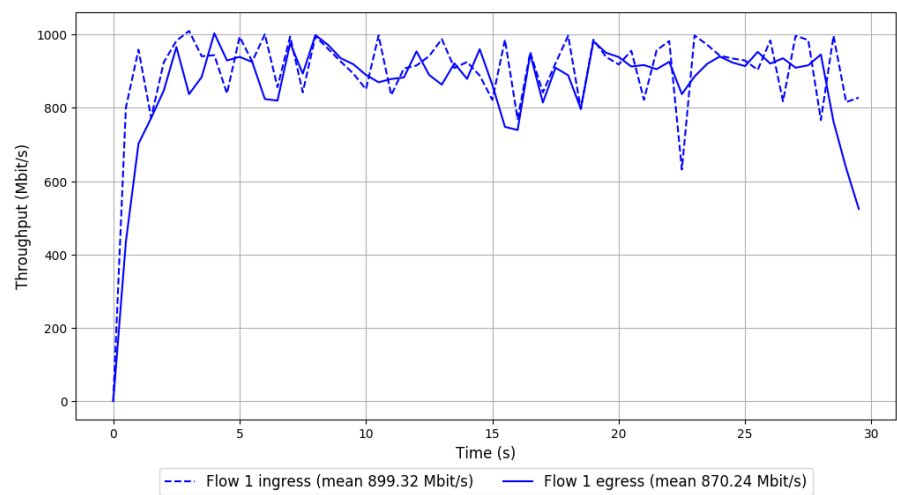
-- Flow 1:

Average throughput: 870.24 Mbit/s

95th percentile per-packet one-way delay: 304.809 ms

Loss rate: 3.97%

Run 10: Report of FillP — Data Link

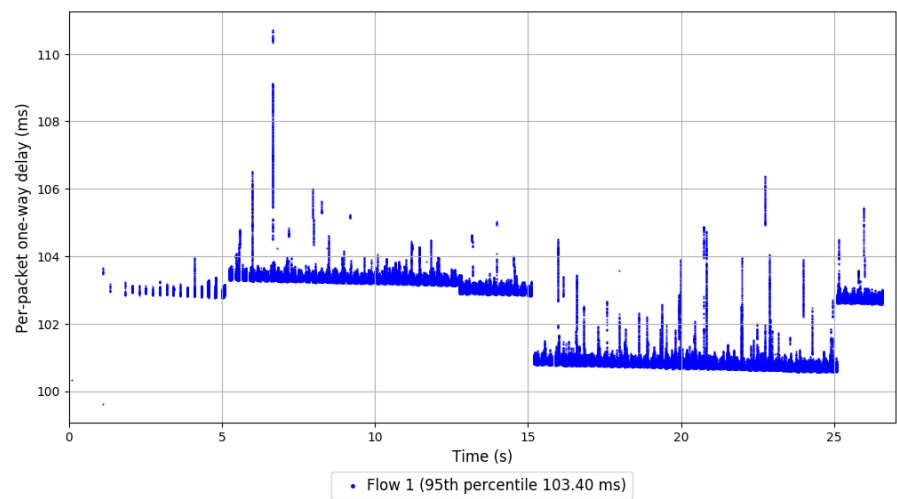
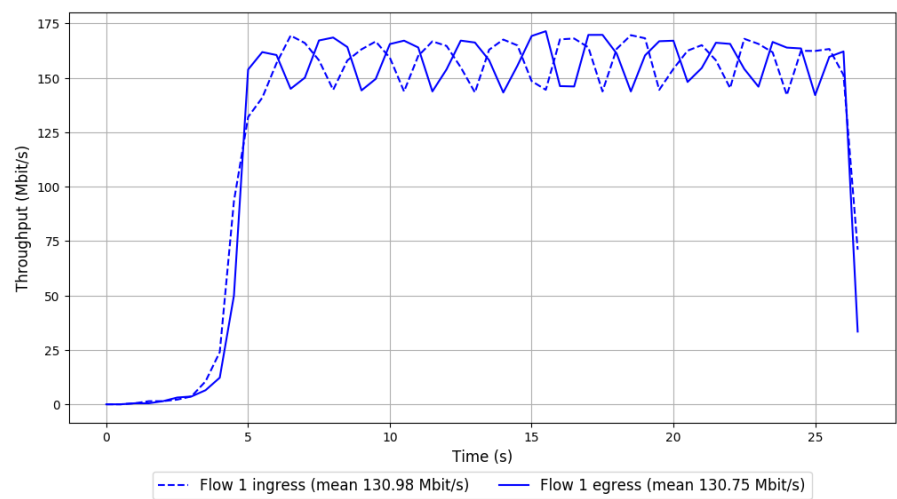


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-20 05:56:24
End at: 2018-03-20 05:56:54

# Below is generated by plot.py at 2018-03-20 12:03:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.75 Mbit/s
95th percentile per-packet one-way delay: 103.398 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 130.75 Mbit/s
95th percentile per-packet one-way delay: 103.398 ms
Loss rate: 1.02%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-20 06:11:44

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

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.69 Mbit/s

95th percentile per-packet one-way delay: 96.604 ms

Loss rate: 0.77%

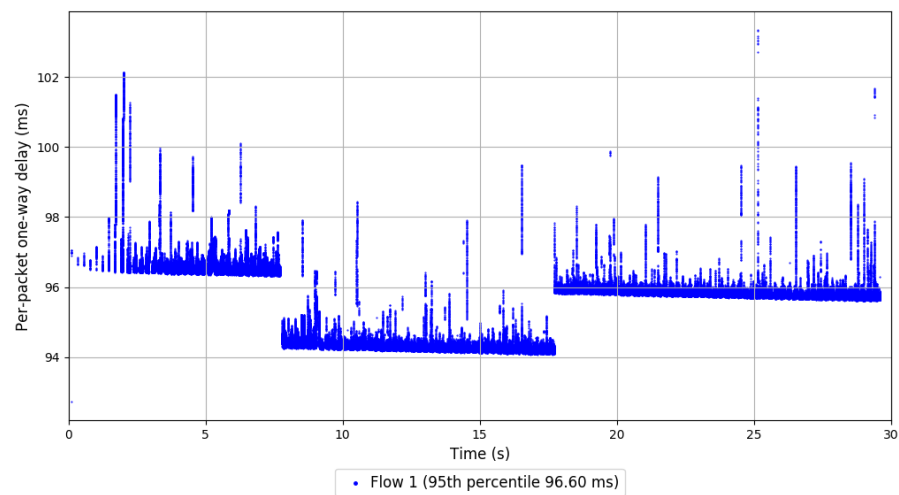
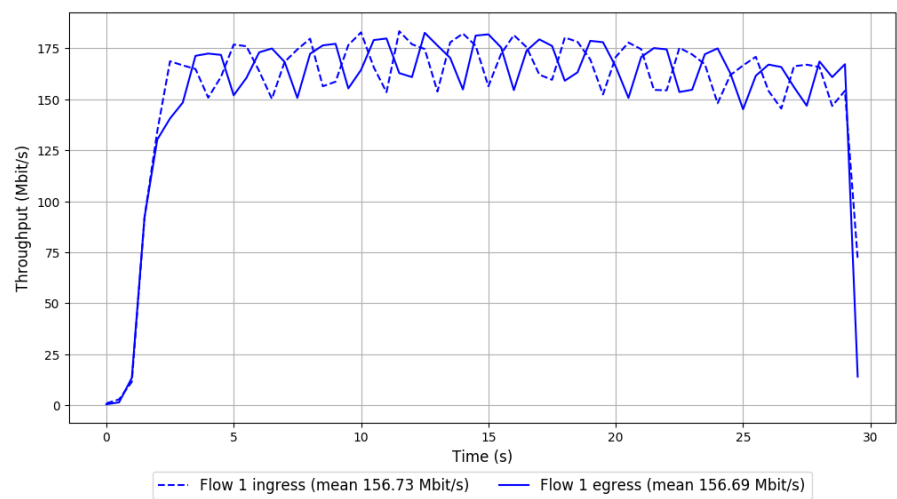
-- Flow 1:

Average throughput: 156.69 Mbit/s

95th percentile per-packet one-way delay: 96.604 ms

Loss rate: 0.77%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-20 06:27:11

End at: 2018-03-20 06:27:41

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.66 Mbit/s

95th percentile per-packet one-way delay: 93.126 ms

Loss rate: 0.82%

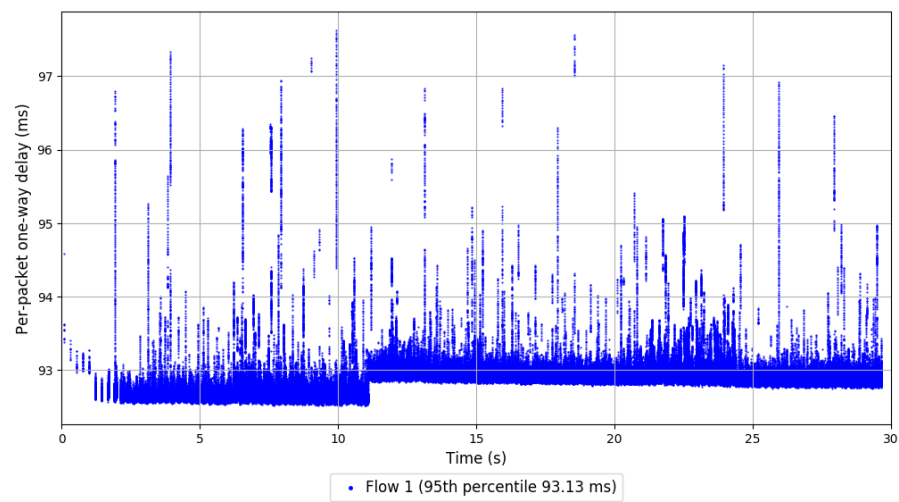
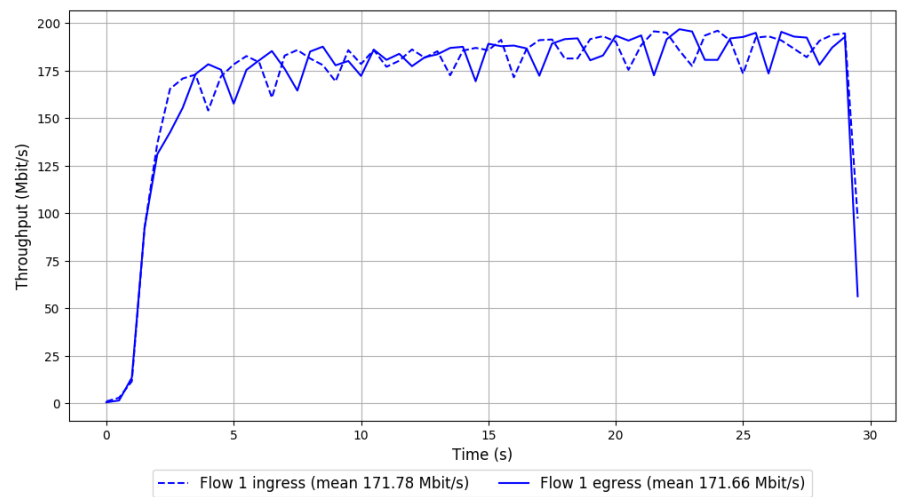
-- Flow 1:

Average throughput: 171.66 Mbit/s

95th percentile per-packet one-way delay: 93.126 ms

Loss rate: 0.82%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-20 06:42:38

End at: 2018-03-20 06:43:08

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.52 Mbit/s

95th percentile per-packet one-way delay: 82.726 ms

Loss rate: 0.80%

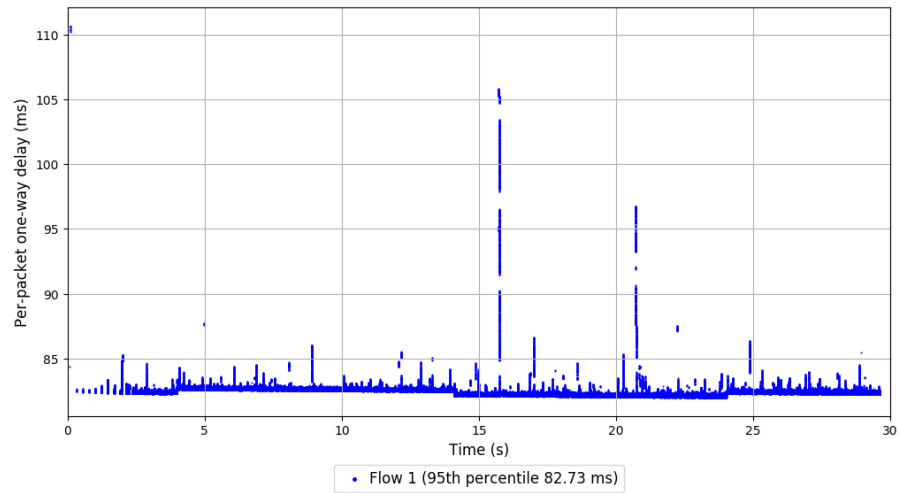
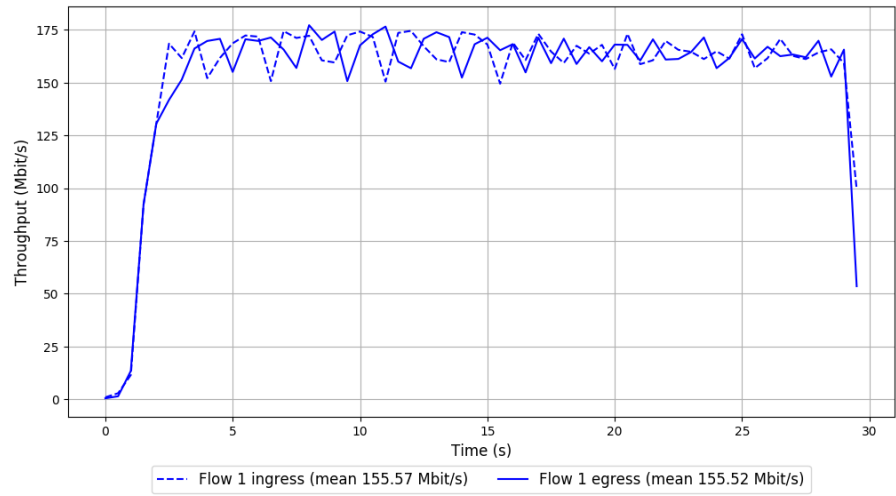
-- Flow 1:

Average throughput: 155.52 Mbit/s

95th percentile per-packet one-way delay: 82.726 ms

Loss rate: 0.80%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-20 06:58:33

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

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.06 Mbit/s

95th percentile per-packet one-way delay: 94.329 ms

Loss rate: 0.79%

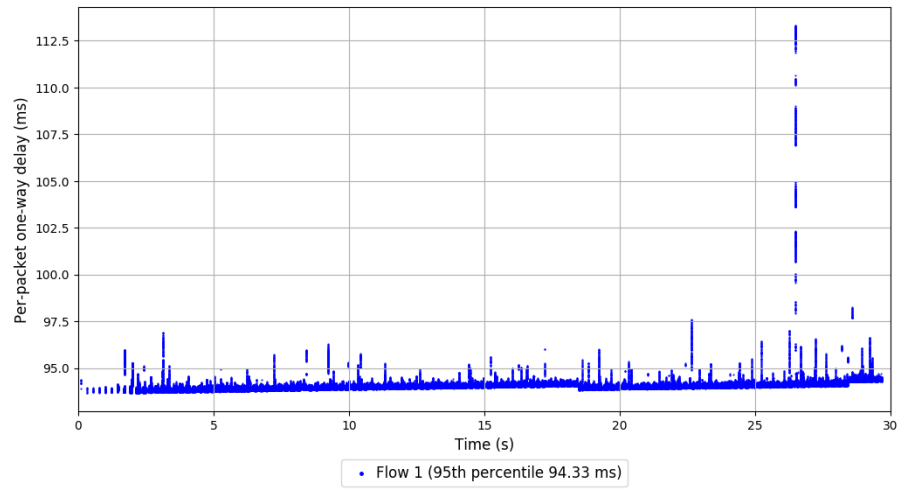
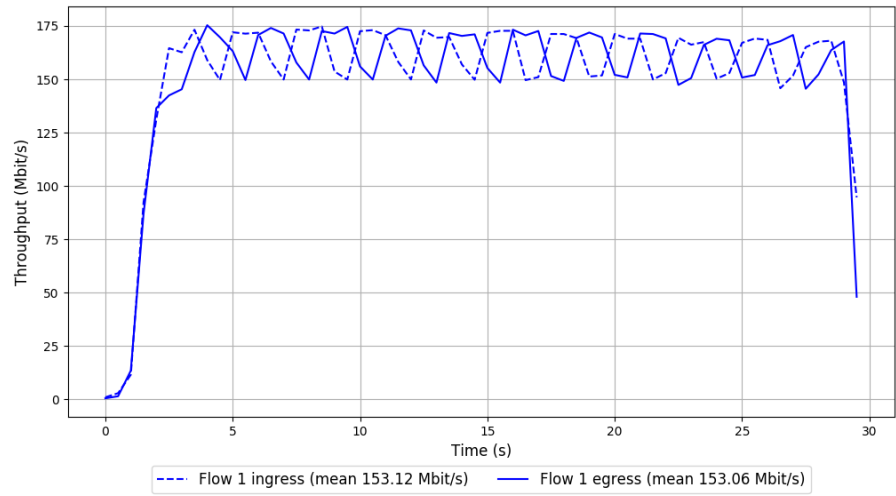
-- Flow 1:

Average throughput: 153.06 Mbit/s

95th percentile per-packet one-way delay: 94.329 ms

Loss rate: 0.79%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-20 07:14:00

End at: 2018-03-20 07:14:30

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.79 Mbit/s

95th percentile per-packet one-way delay: 99.862 ms

Loss rate: 0.77%

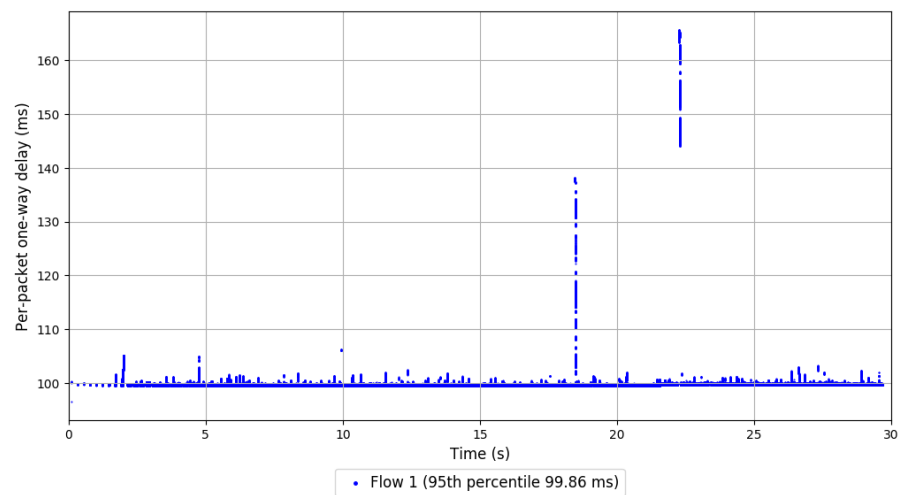
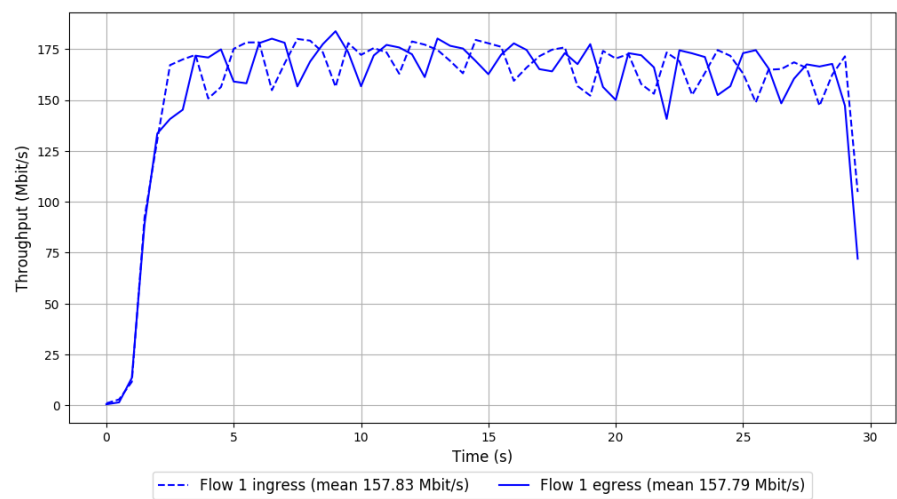
-- Flow 1:

Average throughput: 157.79 Mbit/s

95th percentile per-packet one-way delay: 99.862 ms

Loss rate: 0.77%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-20 07:29:15

End at: 2018-03-20 07:29:45

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.33 Mbit/s

95th percentile per-packet one-way delay: 102.119 ms

Loss rate: 0.76%

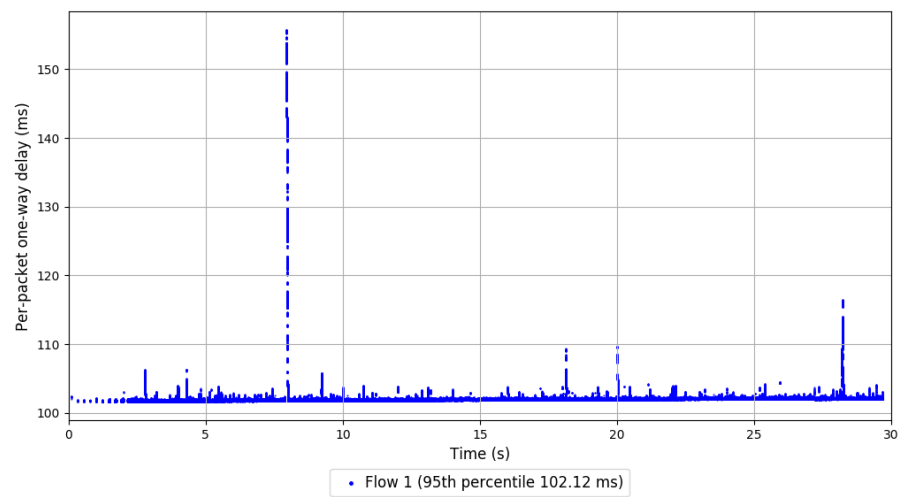
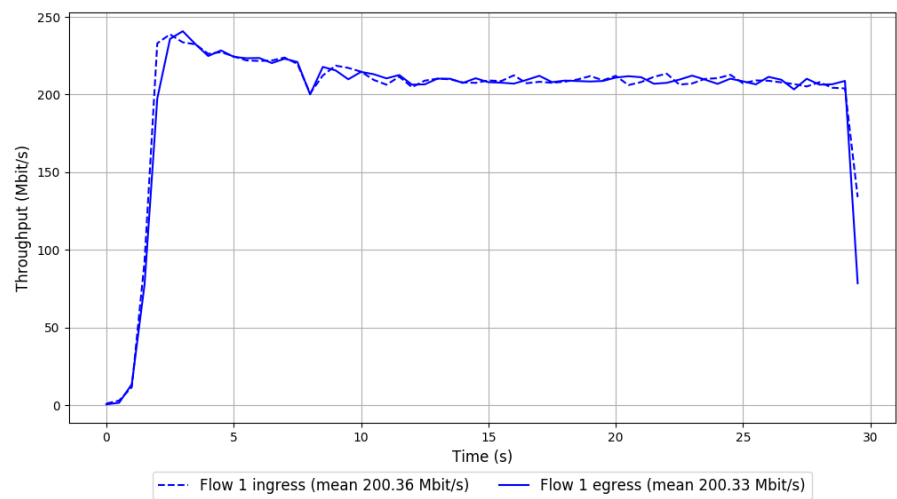
-- Flow 1:

Average throughput: 200.33 Mbit/s

95th percentile per-packet one-way delay: 102.119 ms

Loss rate: 0.76%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-20 07:44:40

End at: 2018-03-20 07:45:10

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.56 Mbit/s

95th percentile per-packet one-way delay: 106.996 ms

Loss rate: 0.79%

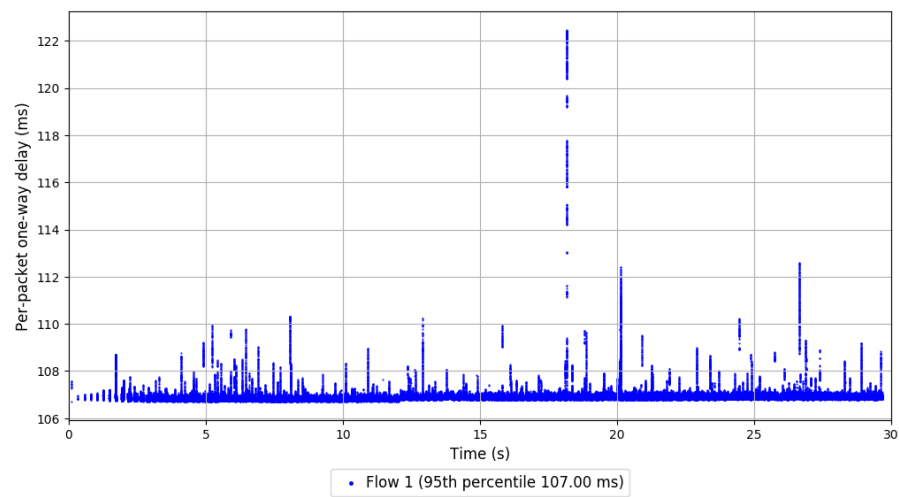
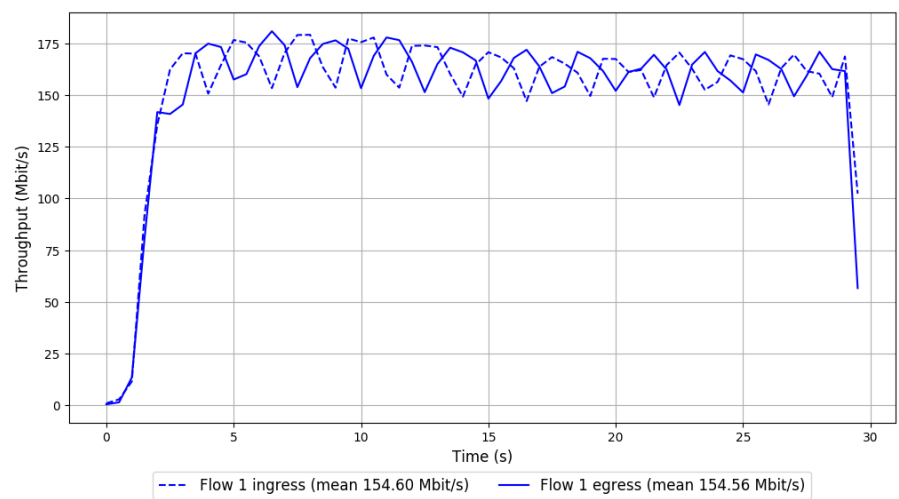
-- Flow 1:

Average throughput: 154.56 Mbit/s

95th percentile per-packet one-way delay: 106.996 ms

Loss rate: 0.79%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-20 08:00:13

End at: 2018-03-20 08:00:43

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.85 Mbit/s

95th percentile per-packet one-way delay: 105.159 ms

Loss rate: 0.77%

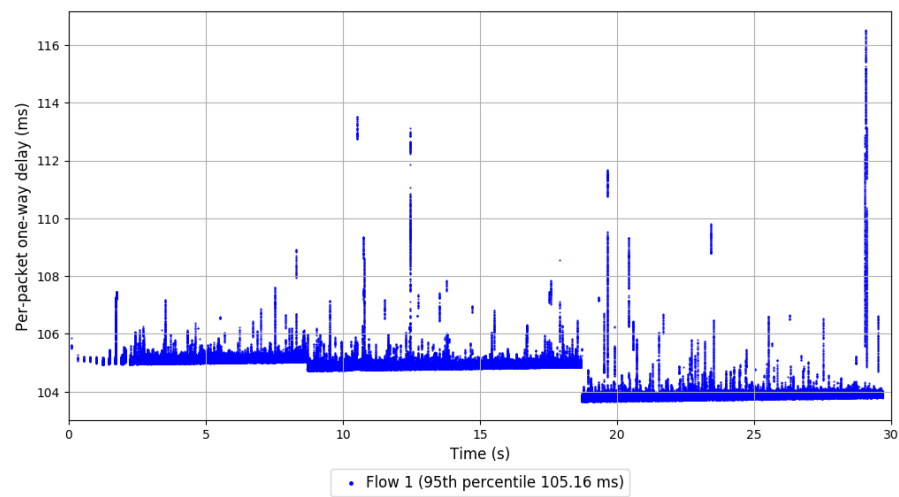
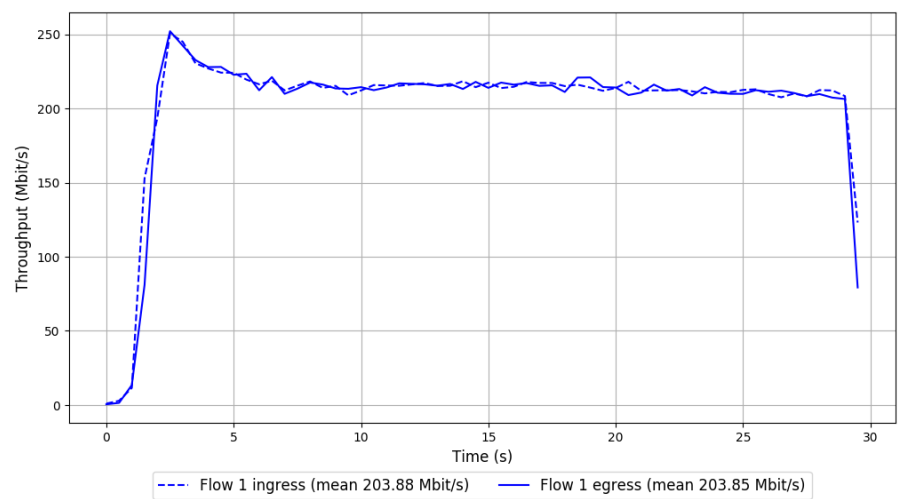
-- Flow 1:

Average throughput: 203.85 Mbit/s

95th percentile per-packet one-way delay: 105.159 ms

Loss rate: 0.77%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-20 08:15:58

End at: 2018-03-20 08:16:28

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.42 Mbit/s

95th percentile per-packet one-way delay: 110.375 ms

Loss rate: 0.80%

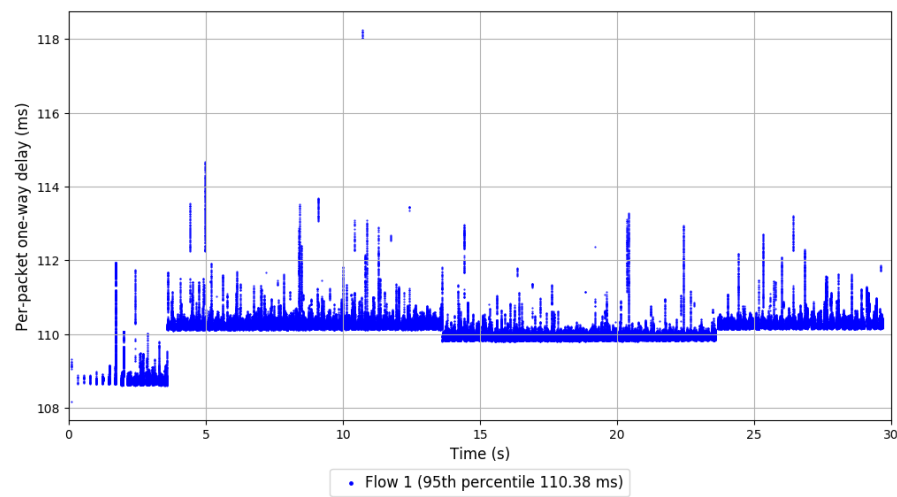
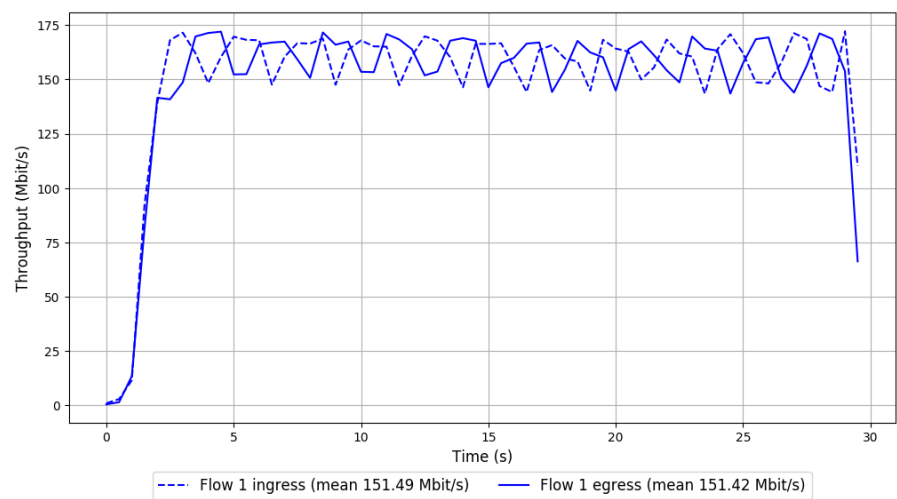
-- Flow 1:

Average throughput: 151.42 Mbit/s

95th percentile per-packet one-way delay: 110.375 ms

Loss rate: 0.80%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-20 05:48:35

End at: 2018-03-20 05:49:05

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.26 Mbit/s

95th percentile per-packet one-way delay: 106.213 ms

Loss rate: 1.04%

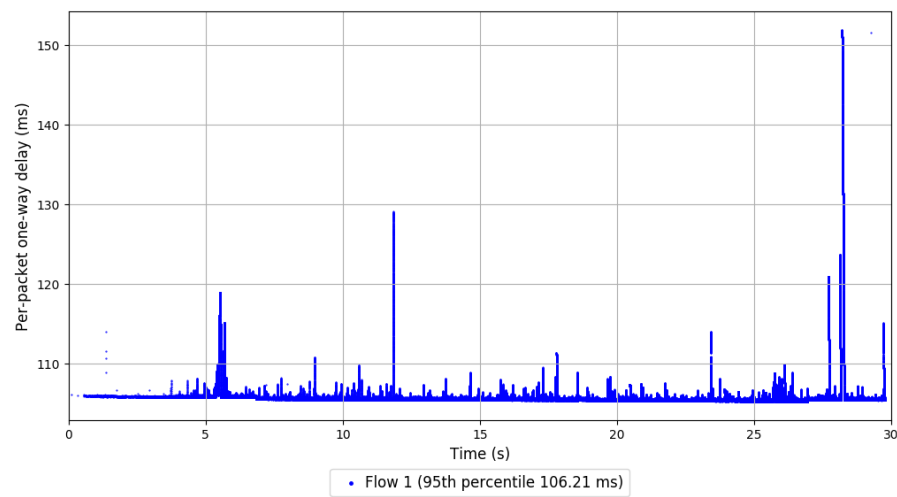
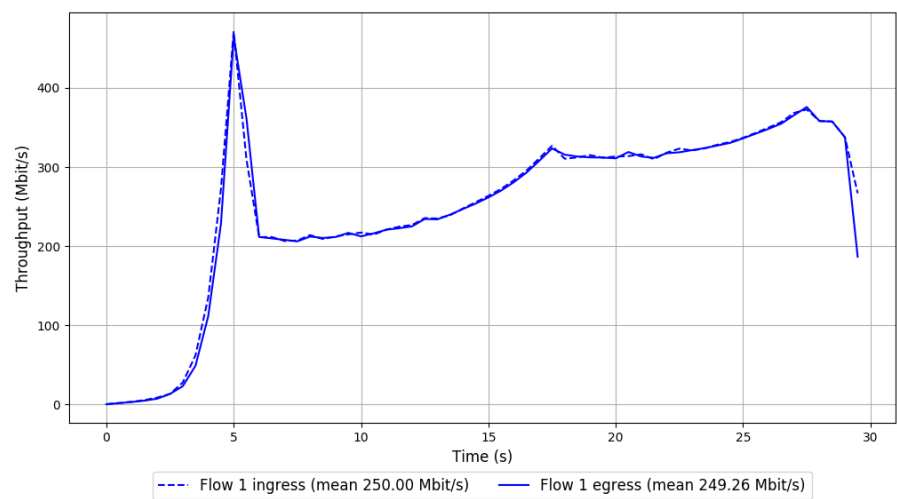
-- Flow 1:

Average throughput: 249.26 Mbit/s

95th percentile per-packet one-way delay: 106.213 ms

Loss rate: 1.04%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-20 06:03:54

End at: 2018-03-20 06:04:24

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.19 Mbit/s

95th percentile per-packet one-way delay: 121.082 ms

Loss rate: 1.04%

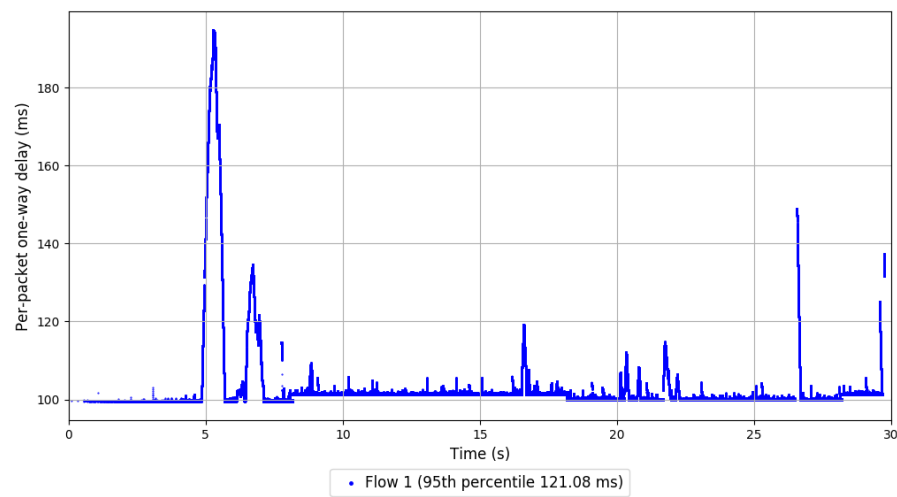
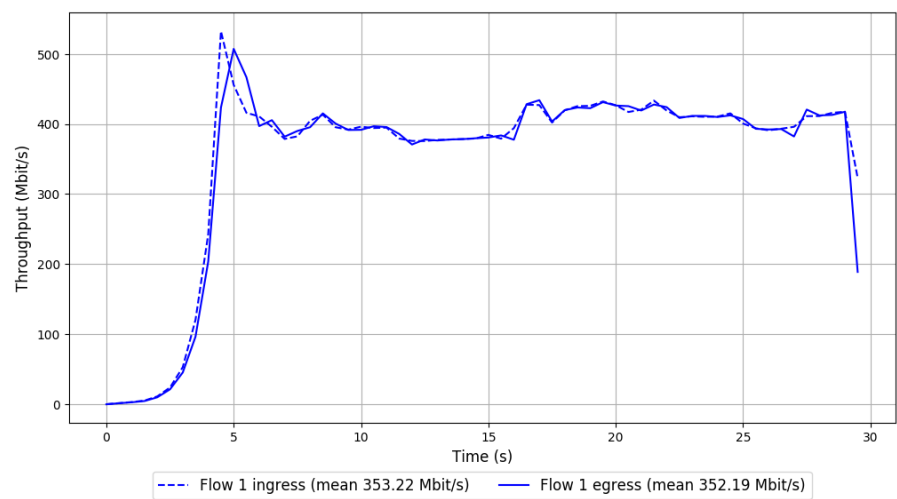
-- Flow 1:

Average throughput: 352.19 Mbit/s

95th percentile per-packet one-way delay: 121.082 ms

Loss rate: 1.04%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-20 06:19:18

End at: 2018-03-20 06:19:48

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.61 Mbit/s

95th percentile per-packet one-way delay: 92.972 ms

Loss rate: 1.53%

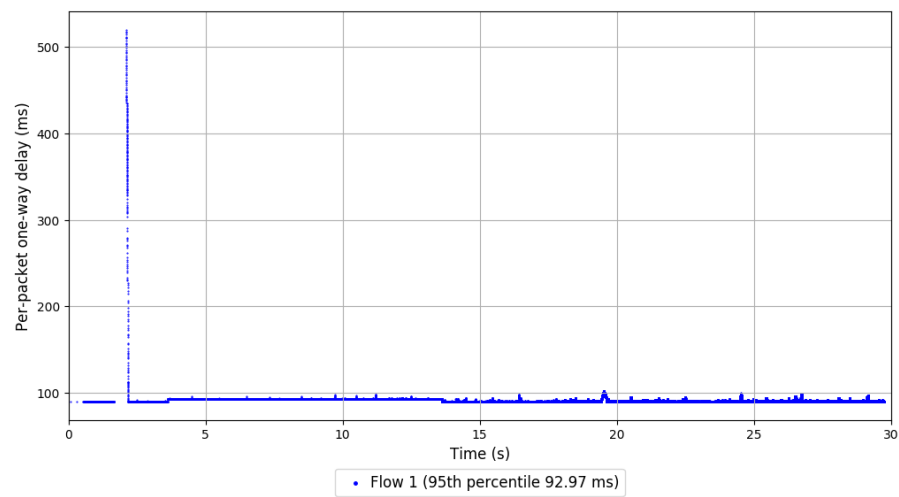
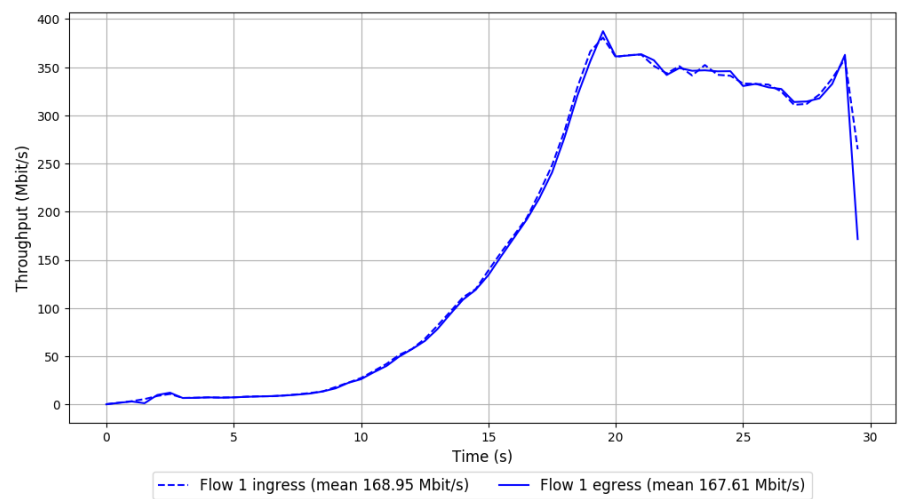
-- Flow 1:

Average throughput: 167.61 Mbit/s

95th percentile per-packet one-way delay: 92.972 ms

Loss rate: 1.53%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-20 06:34:43

End at: 2018-03-20 06:35:13

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.04 Mbit/s

95th percentile per-packet one-way delay: 91.378 ms

Loss rate: 1.05%

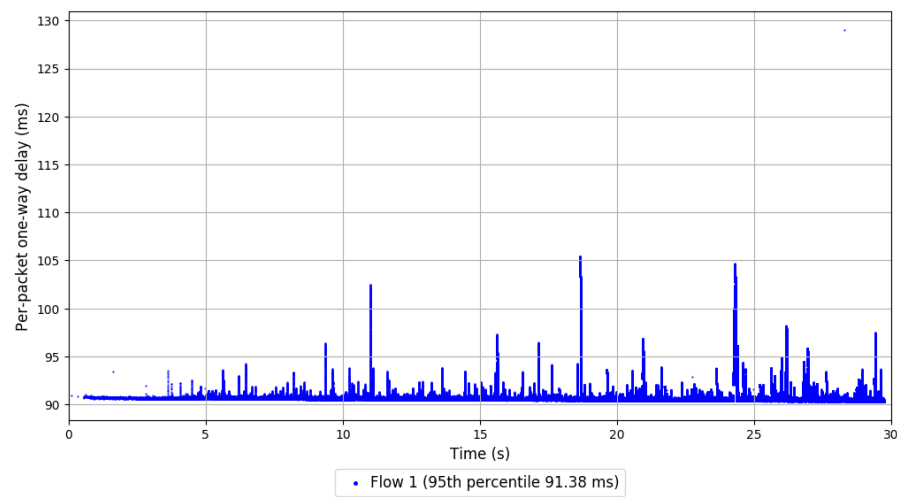
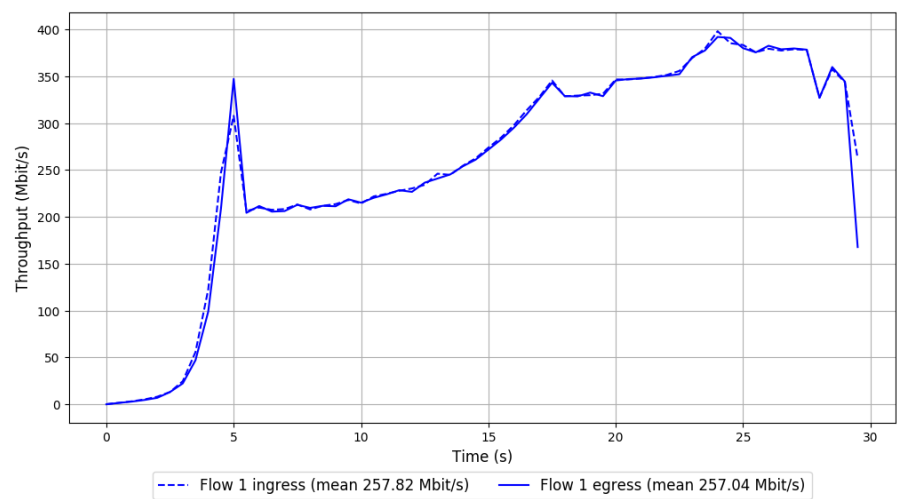
-- Flow 1:

Average throughput: 257.04 Mbit/s

95th percentile per-packet one-way delay: 91.378 ms

Loss rate: 1.05%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-20 06:50:33

End at: 2018-03-20 06:51:03

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.01 Mbit/s

95th percentile per-packet one-way delay: 80.105 ms

Loss rate: 1.05%

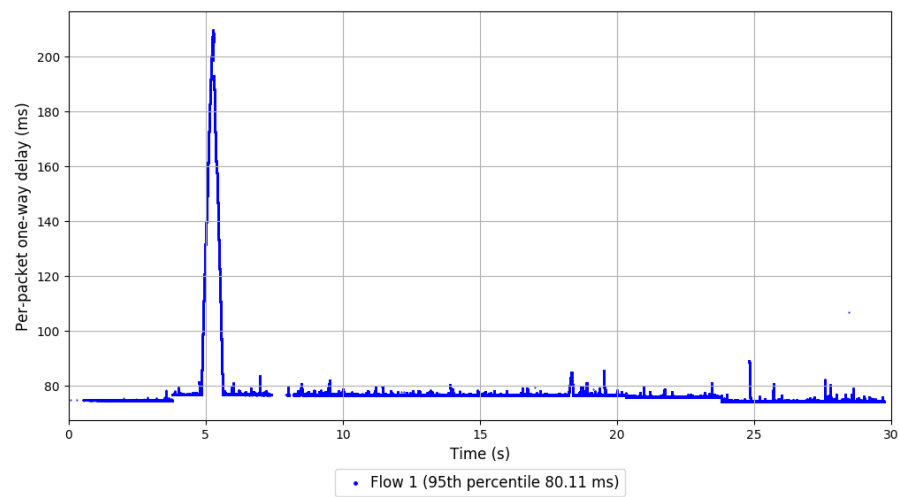
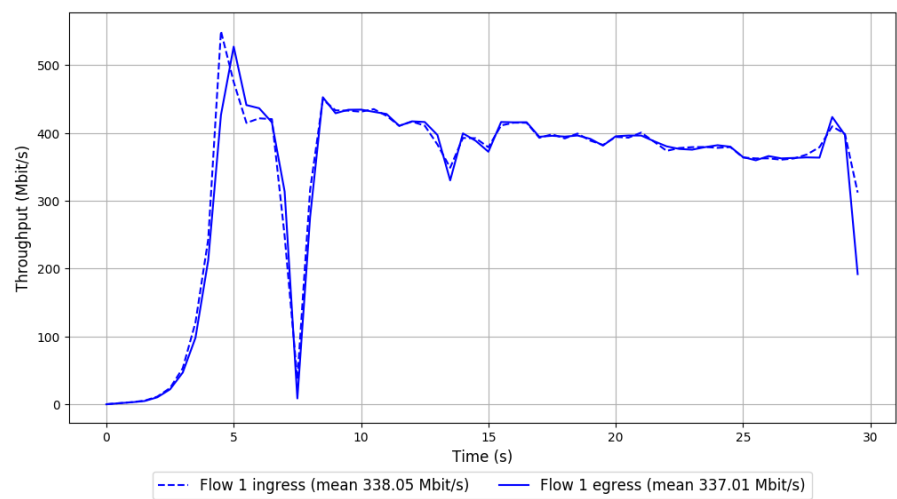
-- Flow 1:

Average throughput: 337.01 Mbit/s

95th percentile per-packet one-way delay: 80.105 ms

Loss rate: 1.05%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-20 07:06:20

End at: 2018-03-20 07:06:50

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.48 Mbit/s

95th percentile per-packet one-way delay: 99.844 ms

Loss rate: 1.61%

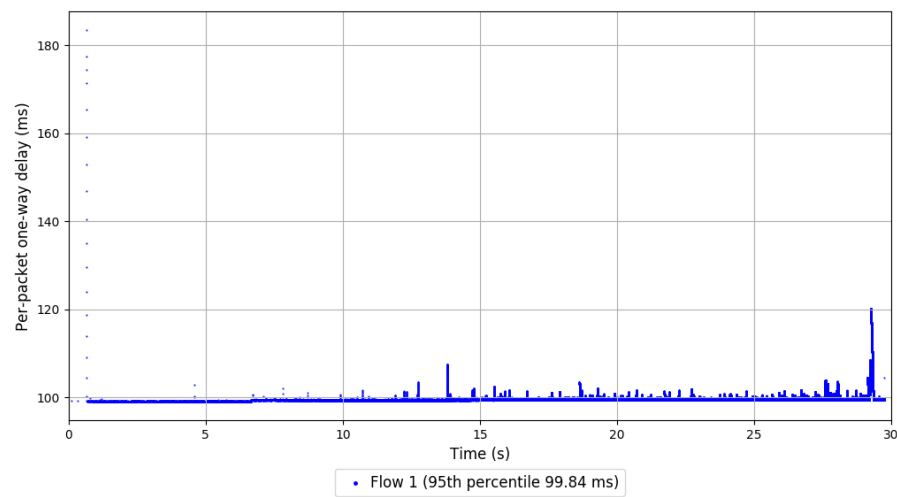
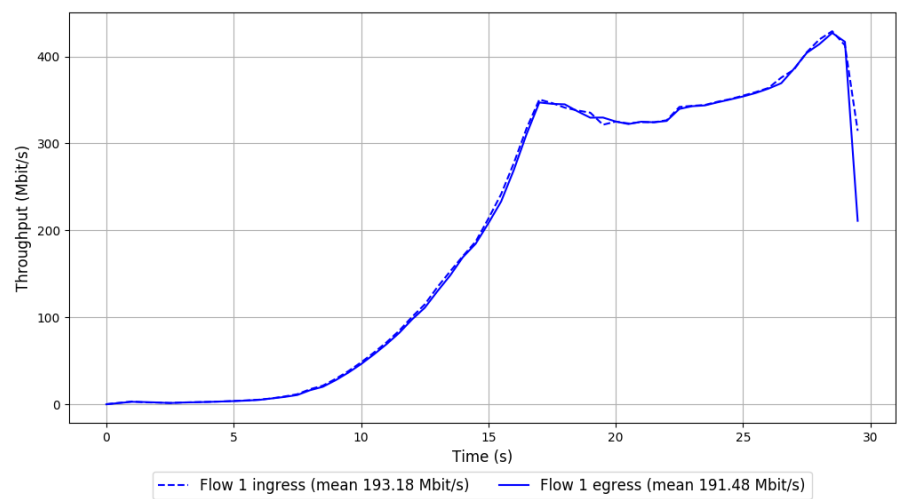
-- Flow 1:

Average throughput: 191.48 Mbit/s

95th percentile per-packet one-way delay: 99.844 ms

Loss rate: 1.61%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-20 07:21:42

End at: 2018-03-20 07:22:12

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.40 Mbit/s

95th percentile per-packet one-way delay: 96.628 ms

Loss rate: 0.94%

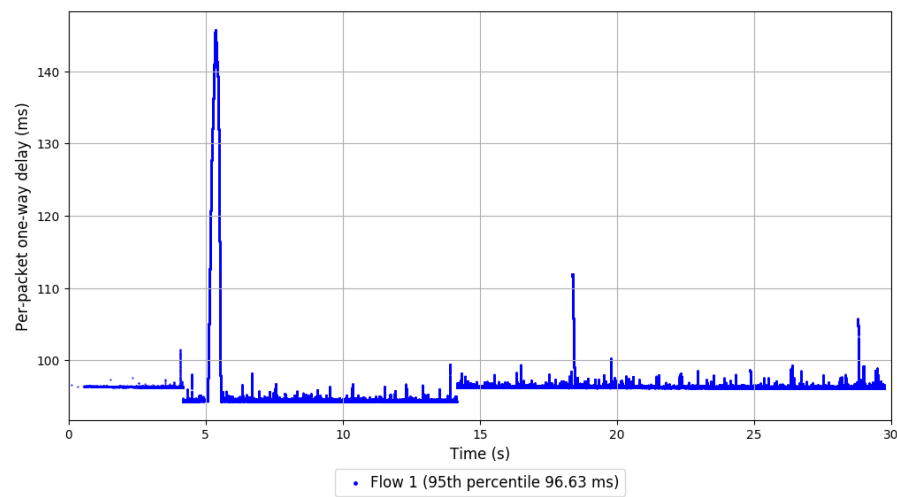
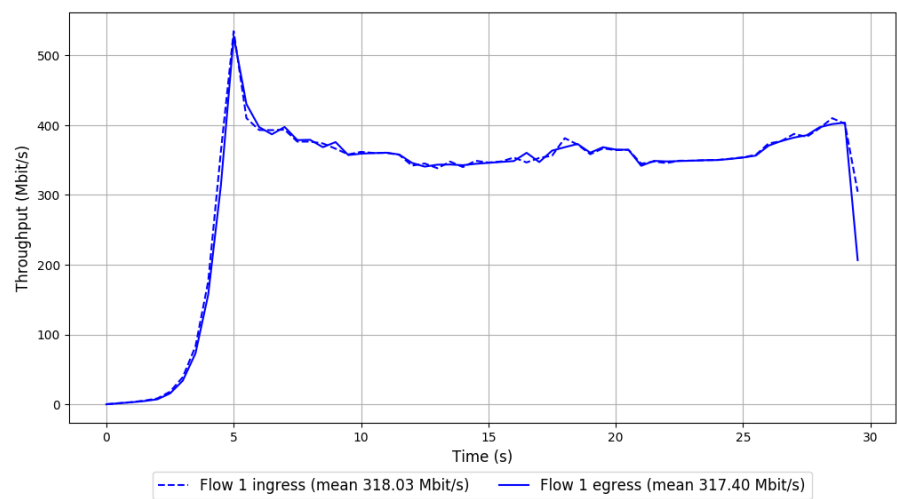
-- Flow 1:

Average throughput: 317.40 Mbit/s

95th percentile per-packet one-way delay: 96.628 ms

Loss rate: 0.94%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-20 07:36:45

End at: 2018-03-20 07:37:15

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.29 Mbit/s

95th percentile per-packet one-way delay: 110.653 ms

Loss rate: 0.92%

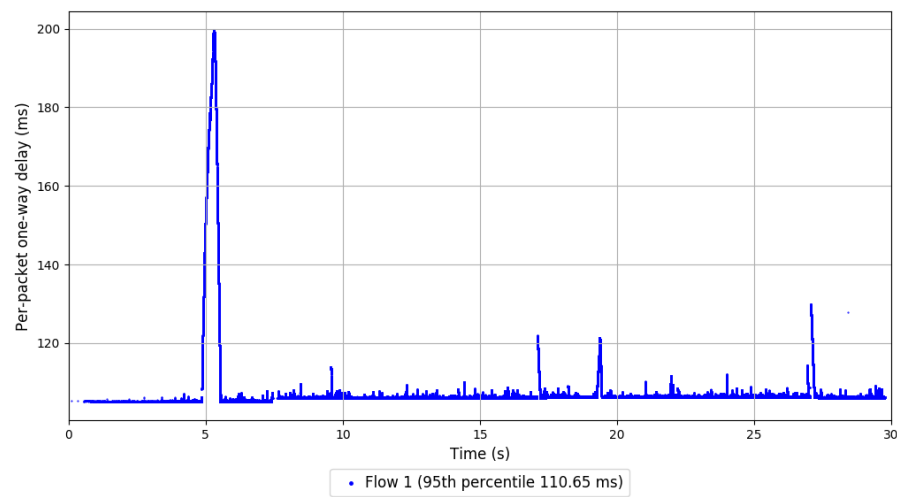
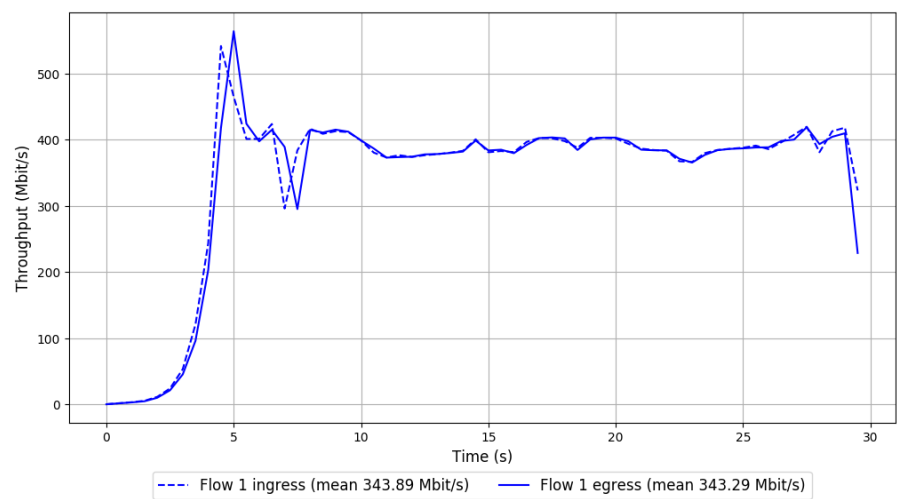
-- Flow 1:

Average throughput: 343.29 Mbit/s

95th percentile per-packet one-way delay: 110.653 ms

Loss rate: 0.92%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-20 07:52:25

End at: 2018-03-20 07:52:55

Below is generated by plot.py at 2018-03-20 12:03:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.52 Mbit/s

95th percentile per-packet one-way delay: 106.425 ms

Loss rate: 0.97%

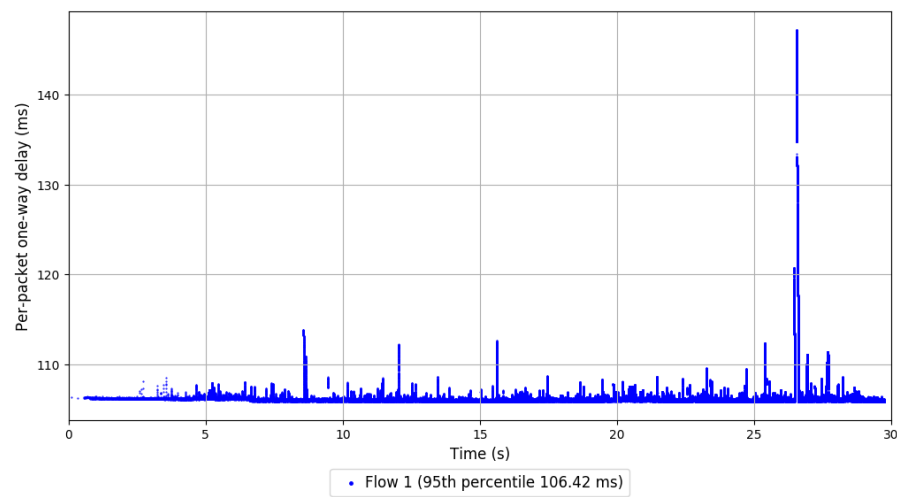
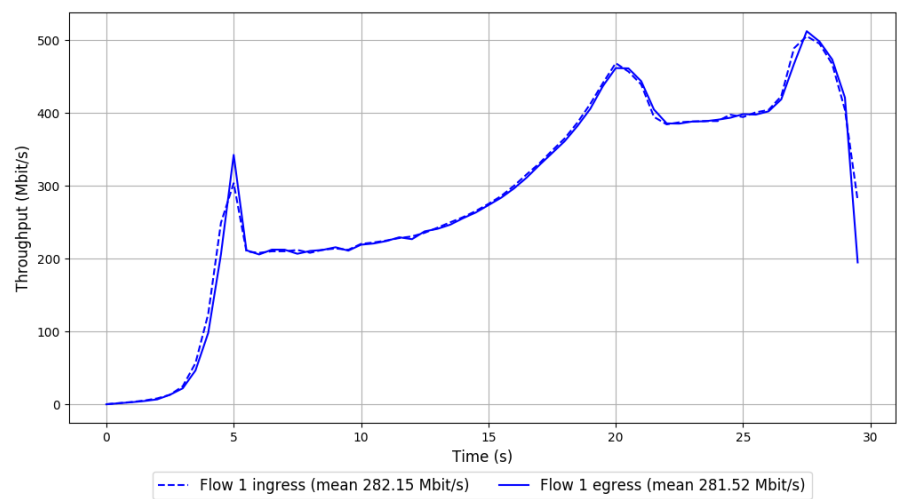
-- Flow 1:

Average throughput: 281.52 Mbit/s

95th percentile per-packet one-way delay: 106.425 ms

Loss rate: 0.97%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-20 08:08:01

End at: 2018-03-20 08:08:31

Below is generated by plot.py at 2018-03-20 12:03:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.76 Mbit/s

95th percentile per-packet one-way delay: 111.309 ms

Loss rate: 0.73%

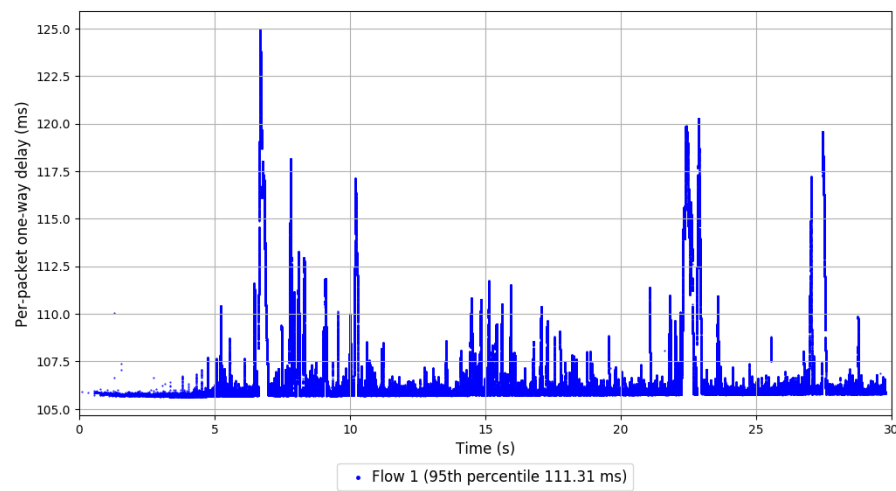
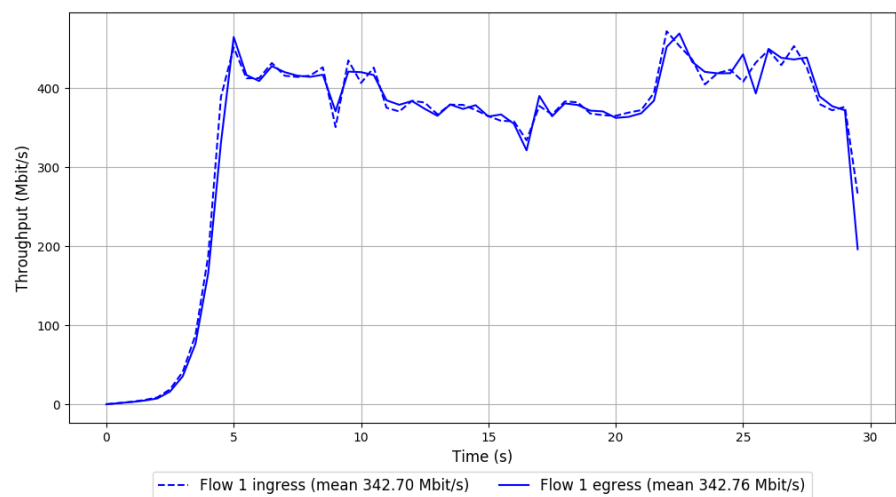
-- Flow 1:

Average throughput: 342.76 Mbit/s

95th percentile per-packet one-way delay: 111.309 ms

Loss rate: 0.73%

Run 10: Report of Vivace-latency — Data Link

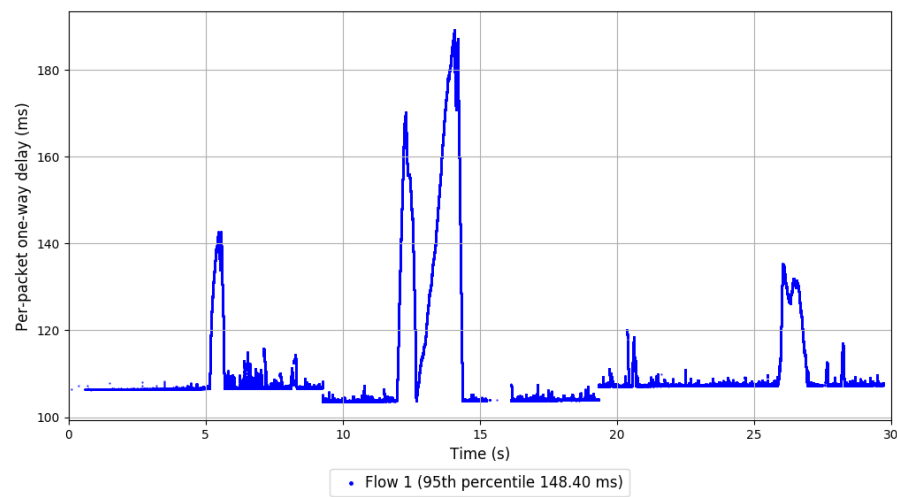
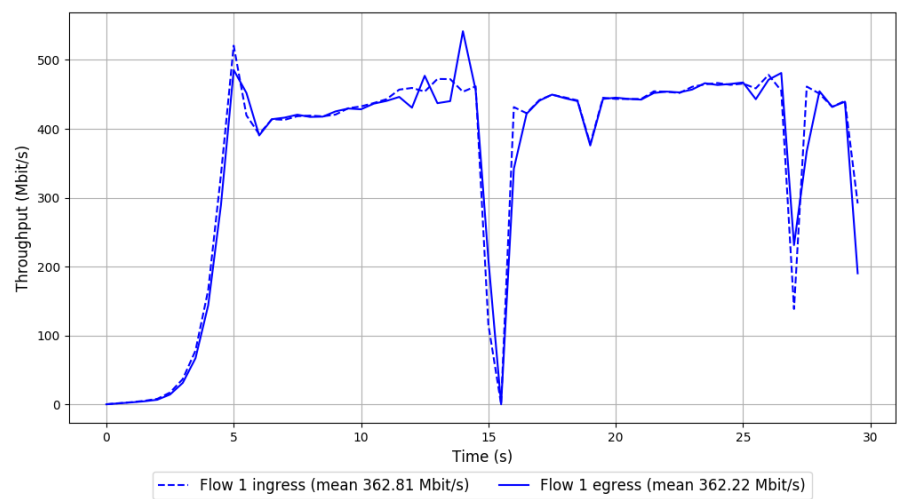


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-20 05:47:27
End at: 2018-03-20 05:47:57

# Below is generated by plot.py at 2018-03-20 12:04:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 362.22 Mbit/s
95th percentile per-packet one-way delay: 148.404 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 362.22 Mbit/s
95th percentile per-packet one-way delay: 148.404 ms
Loss rate: 0.91%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-20 06:02:45

End at: 2018-03-20 06:03:15

Below is generated by plot.py at 2018-03-20 12:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.05 Mbit/s

95th percentile per-packet one-way delay: 249.657 ms

Loss rate: 2.37%

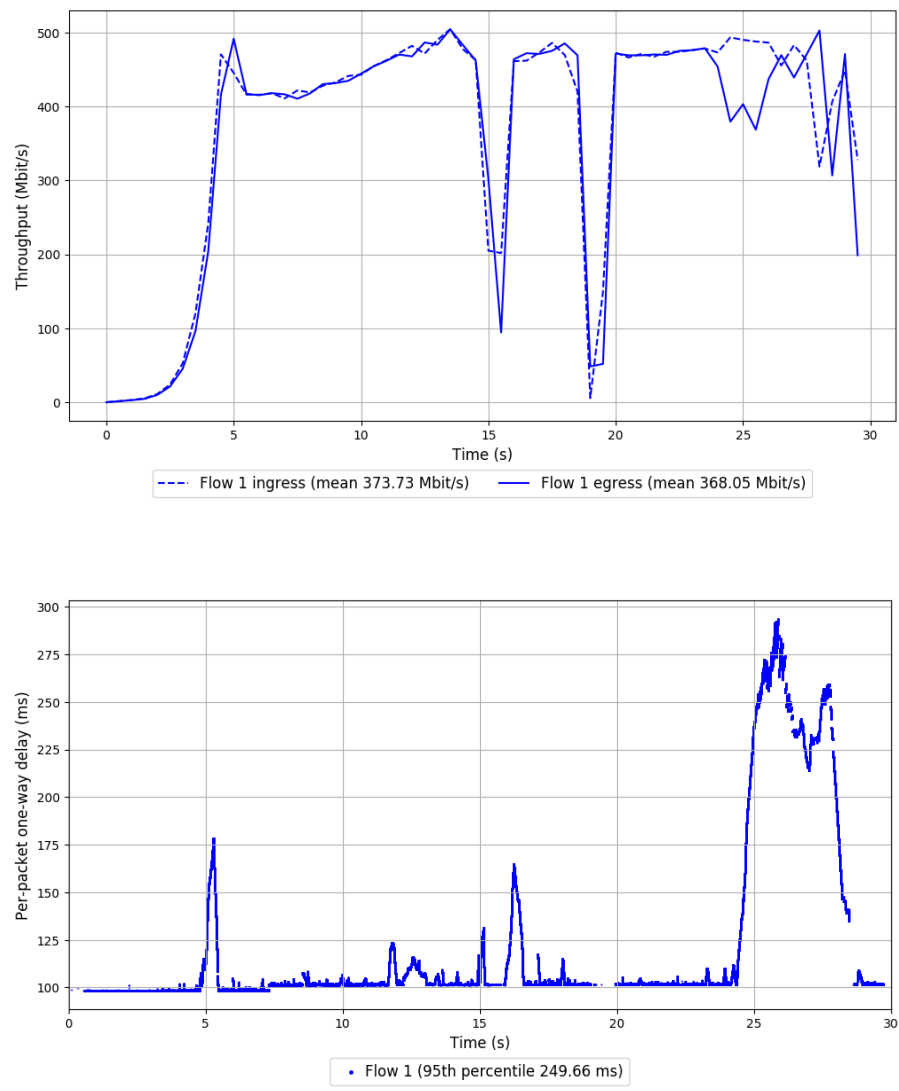
-- Flow 1:

Average throughput: 368.05 Mbit/s

95th percentile per-packet one-way delay: 249.657 ms

Loss rate: 2.37%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-20 06:18:22

End at: 2018-03-20 06:18:52

Below is generated by plot.py at 2018-03-20 12:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.98 Mbit/s

95th percentile per-packet one-way delay: 200.571 ms

Loss rate: 0.64%

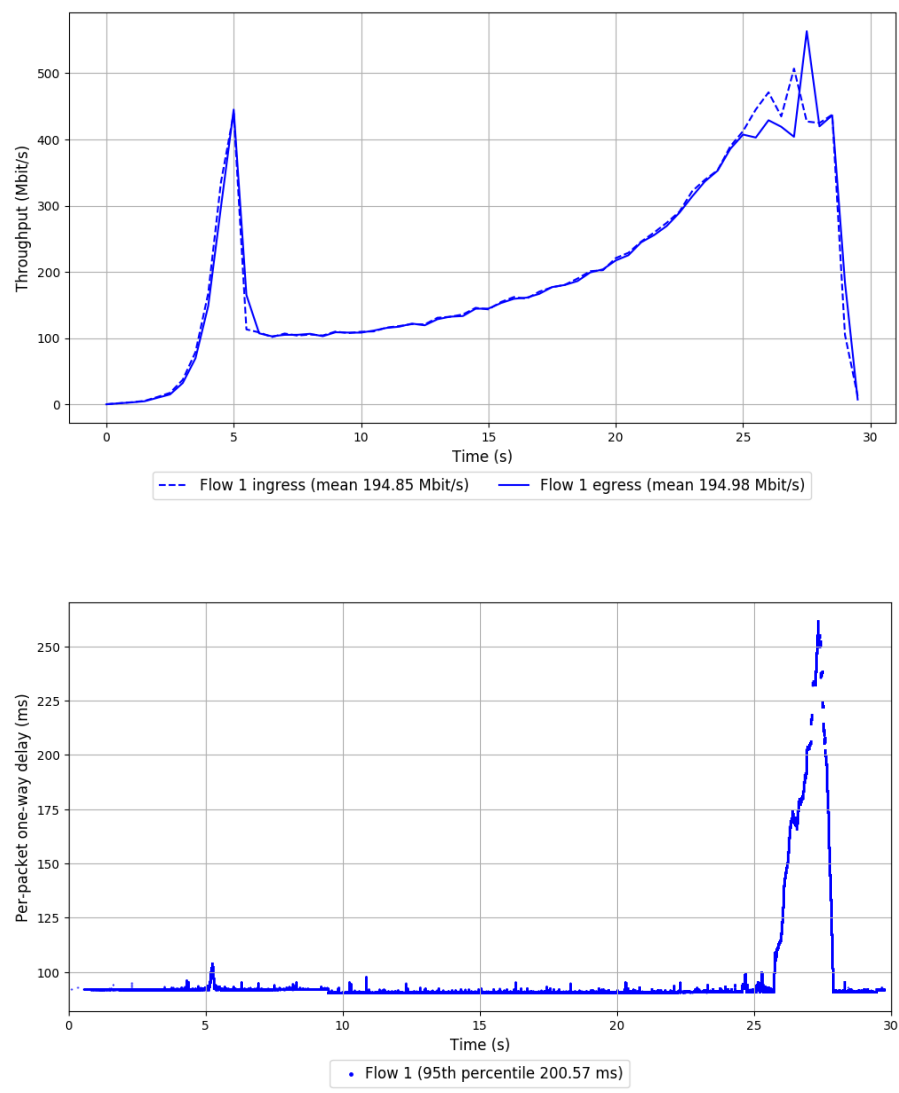
-- Flow 1:

Average throughput: 194.98 Mbit/s

95th percentile per-packet one-way delay: 200.571 ms

Loss rate: 0.64%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-20 06:33:47

End at: 2018-03-20 06:34:17

Below is generated by plot.py at 2018-03-20 12:05:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.04 Mbit/s

95th percentile per-packet one-way delay: 192.038 ms

Loss rate: 3.93%

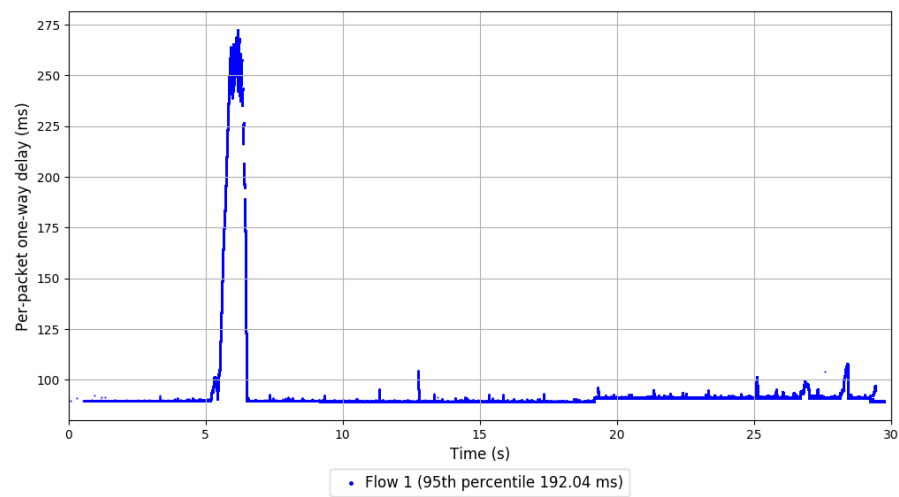
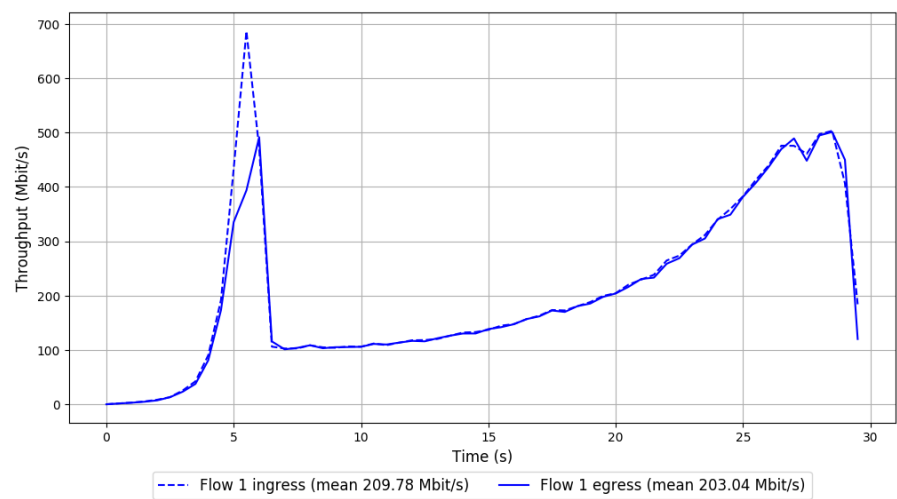
-- Flow 1:

Average throughput: 203.04 Mbit/s

95th percentile per-packet one-way delay: 192.038 ms

Loss rate: 3.93%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-20 06:49:24

End at: 2018-03-20 06:49:54

Below is generated by plot.py at 2018-03-20 12:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.73 Mbit/s

95th percentile per-packet one-way delay: 108.407 ms

Loss rate: 0.95%

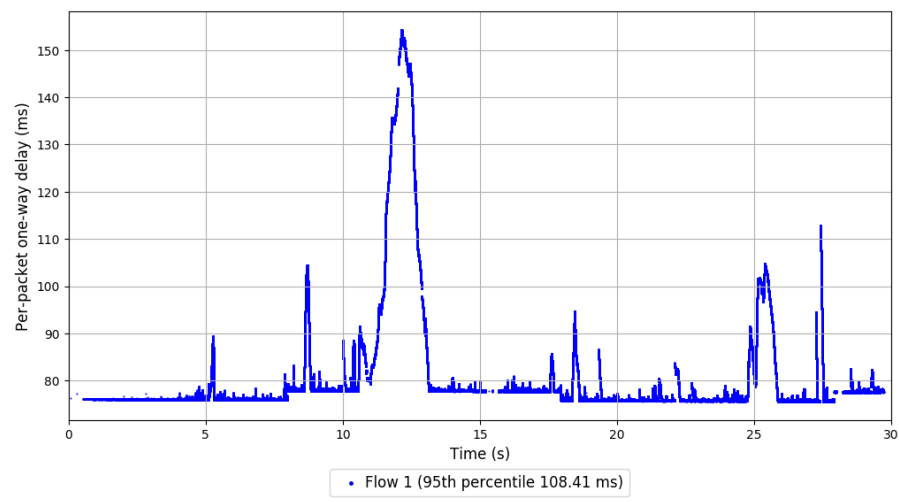
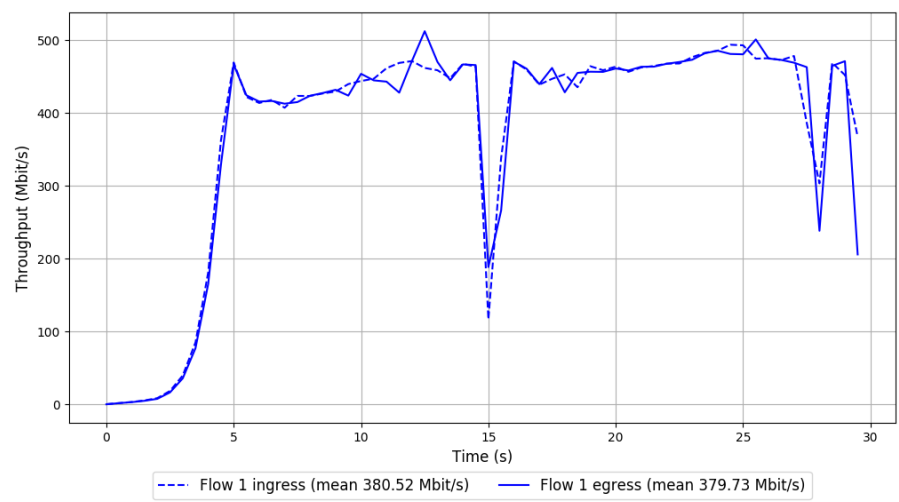
-- Flow 1:

Average throughput: 379.73 Mbit/s

95th percentile per-packet one-way delay: 108.407 ms

Loss rate: 0.95%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-20 07:05:18

End at: 2018-03-20 07:05:48

Below is generated by plot.py at 2018-03-20 12:08:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.90 Mbit/s

95th percentile per-packet one-way delay: 100.185 ms

Loss rate: 1.13%

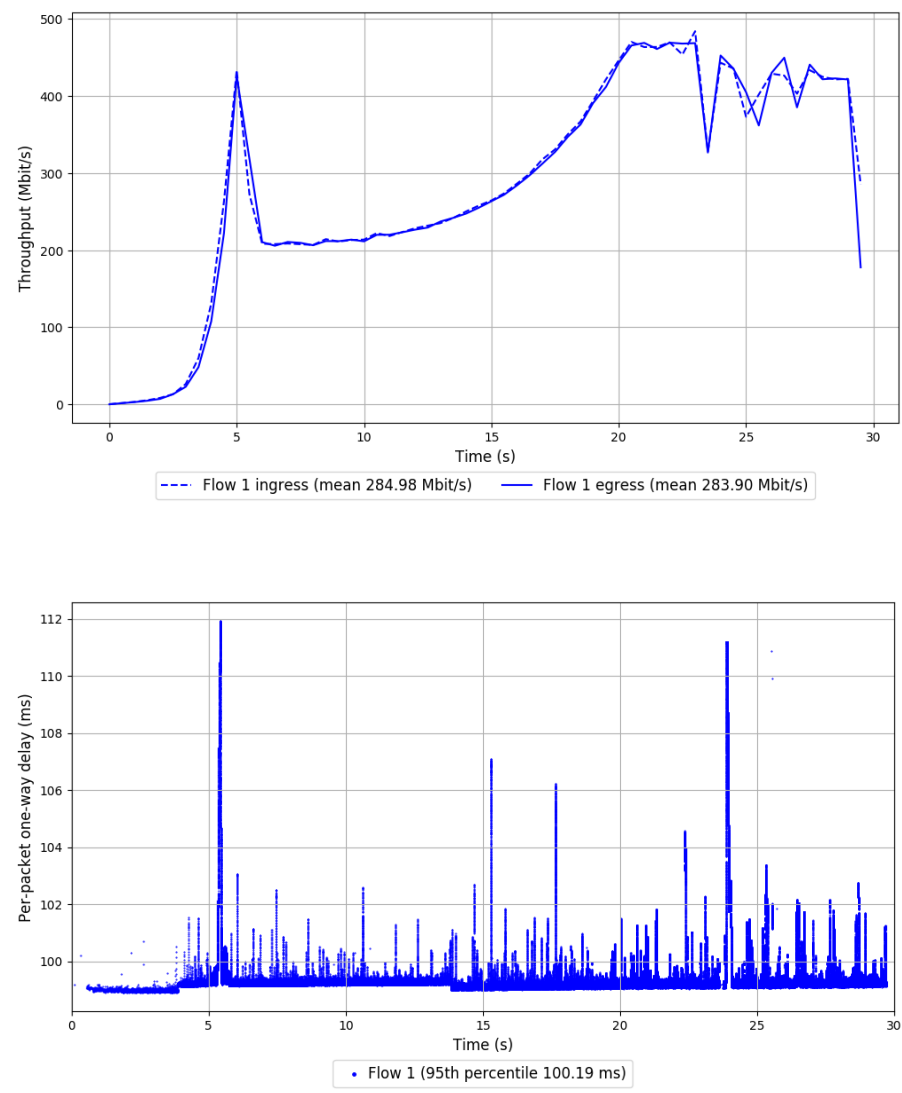
-- Flow 1:

Average throughput: 283.90 Mbit/s

95th percentile per-packet one-way delay: 100.185 ms

Loss rate: 1.13%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-20 07:20:35

End at: 2018-03-20 07:21:05

Below is generated by plot.py at 2018-03-20 12:09:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.69 Mbit/s

95th percentile per-packet one-way delay: 136.785 ms

Loss rate: 0.97%

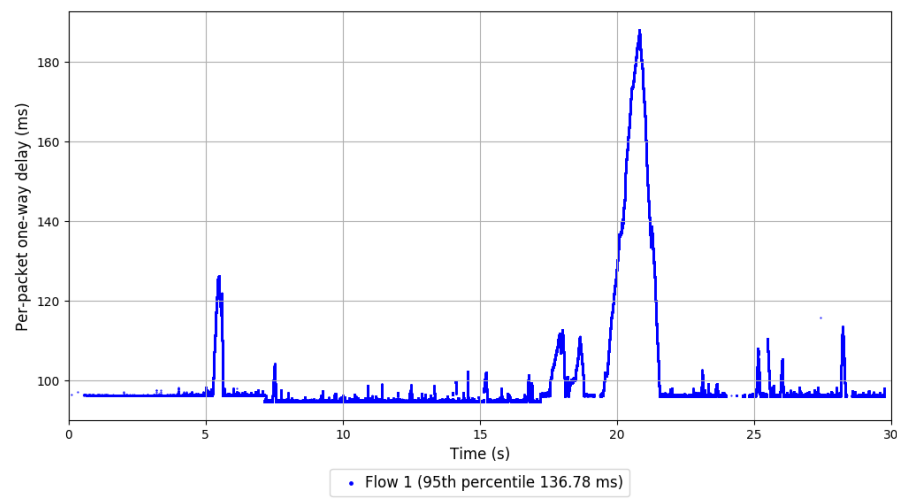
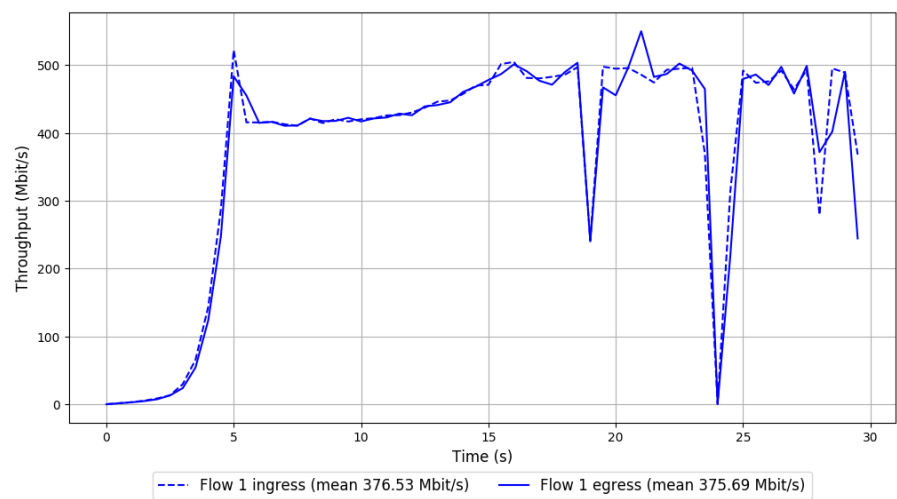
-- Flow 1:

Average throughput: 375.69 Mbit/s

95th percentile per-packet one-way delay: 136.785 ms

Loss rate: 0.97%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-20 07:35:36

End at: 2018-03-20 07:36:06

Below is generated by plot.py at 2018-03-20 12:09:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.91 Mbit/s

95th percentile per-packet one-way delay: 113.879 ms

Loss rate: 0.91%

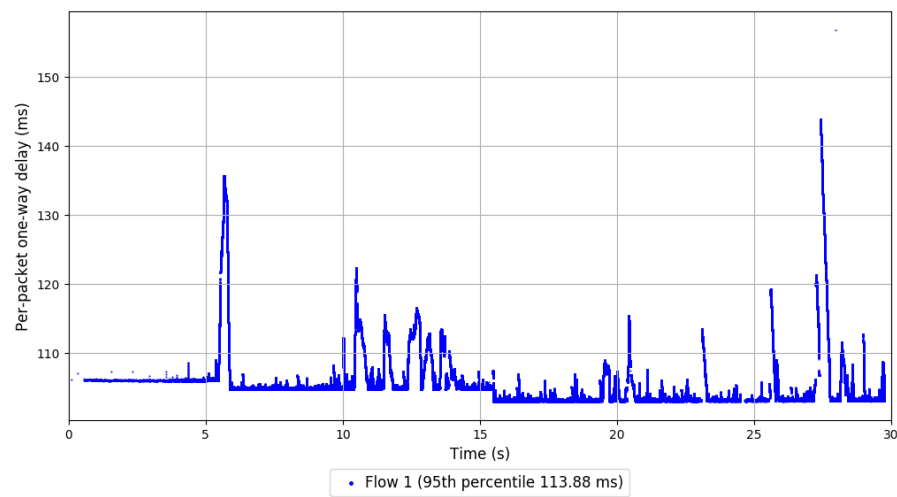
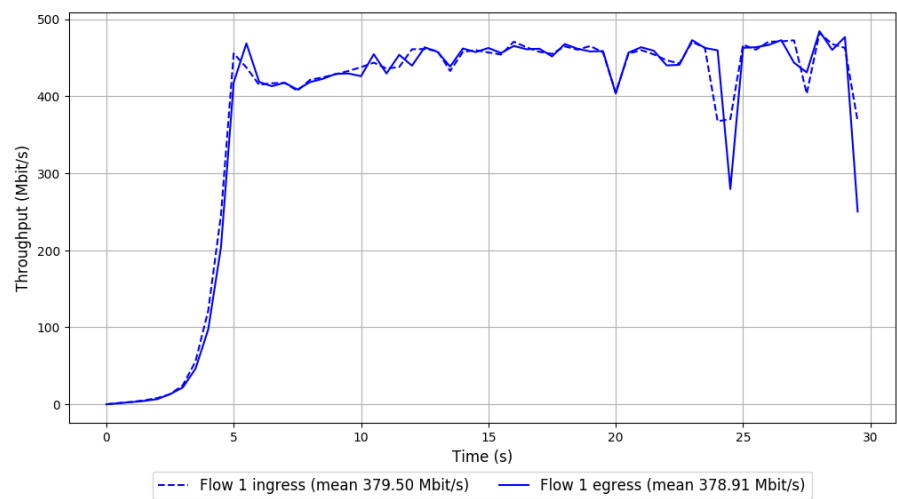
-- Flow 1:

Average throughput: 378.91 Mbit/s

95th percentile per-packet one-way delay: 113.879 ms

Loss rate: 0.91%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-20 07:51:23

End at: 2018-03-20 07:51:53

Below is generated by plot.py at 2018-03-20 12:09:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.44 Mbit/s

95th percentile per-packet one-way delay: 163.347 ms

Loss rate: 1.20%

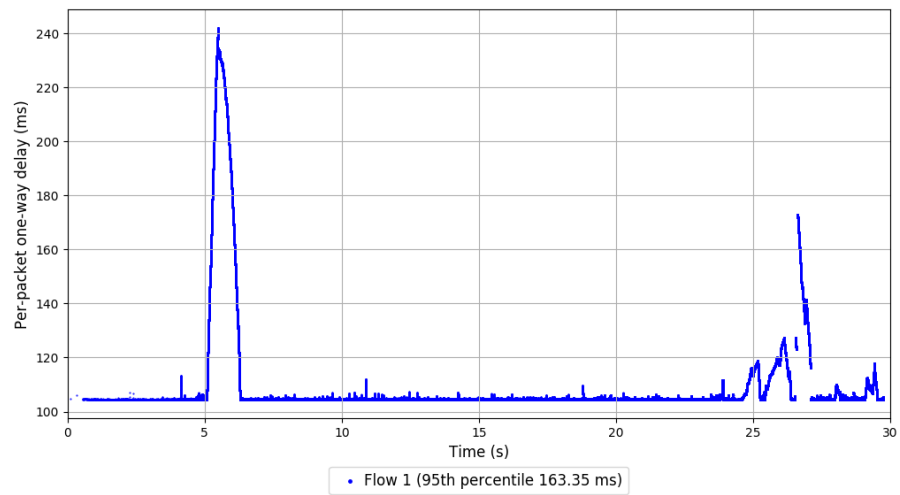
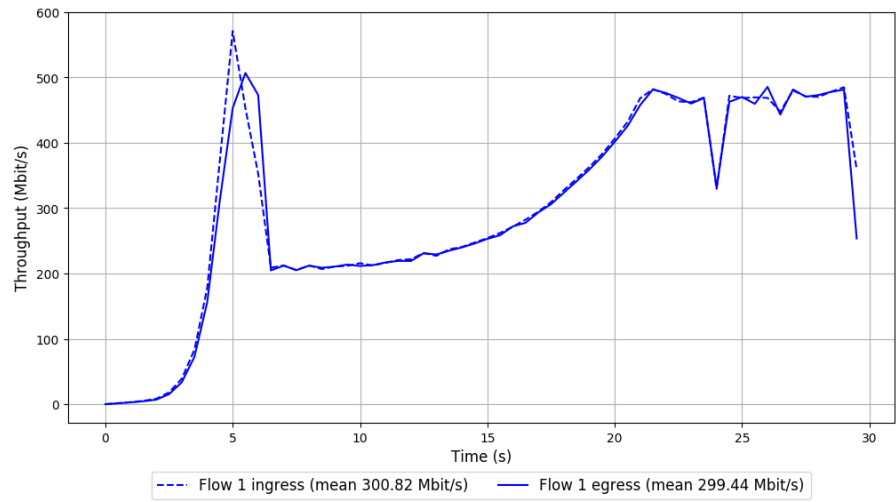
-- Flow 1:

Average throughput: 299.44 Mbit/s

95th percentile per-packet one-way delay: 163.347 ms

Loss rate: 1.20%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-20 08:06:58

End at: 2018-03-20 08:07:28

Below is generated by plot.py at 2018-03-20 12:09:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.81 Mbit/s

95th percentile per-packet one-way delay: 120.621 ms

Loss rate: 1.10%

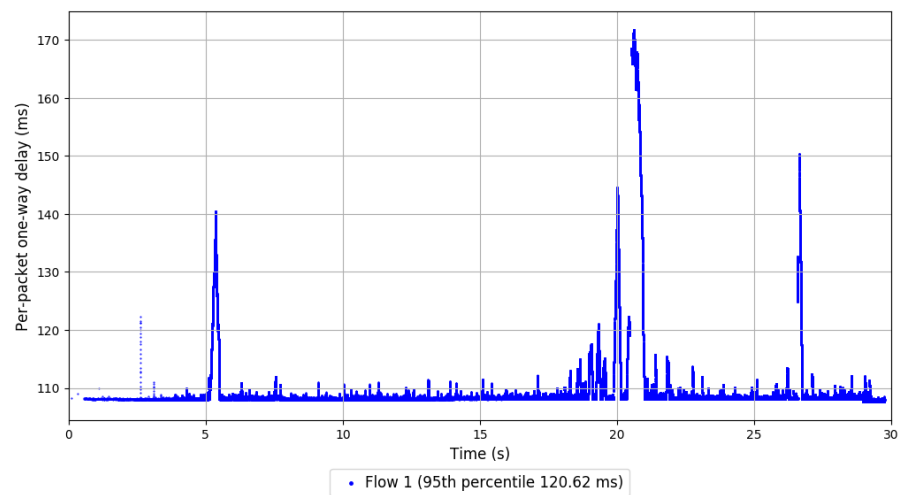
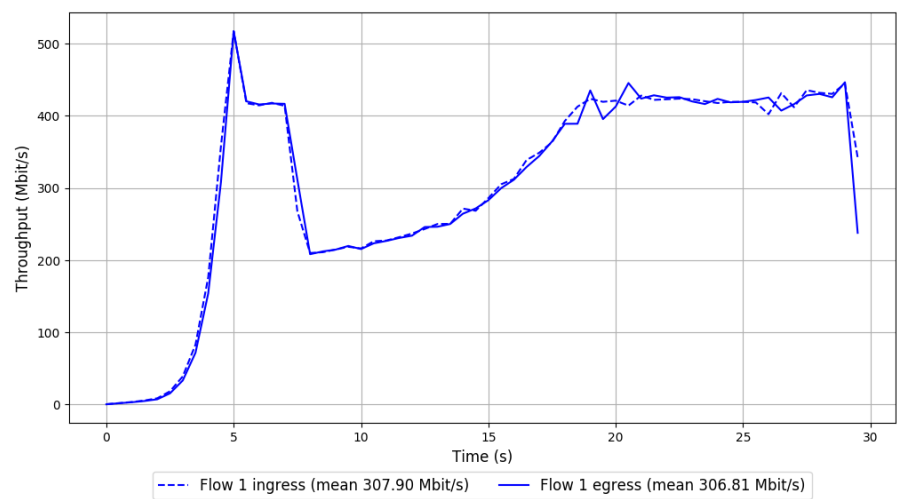
-- Flow 1:

Average throughput: 306.81 Mbit/s

95th percentile per-packet one-way delay: 120.621 ms

Loss rate: 1.10%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-03-20 05:57:13

End at: 2018-03-20 05:57:43

Below is generated by plot.py at 2018-03-20 12:11:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.62 Mbit/s

95th percentile per-packet one-way delay: 197.288 ms

Loss rate: 1.46%

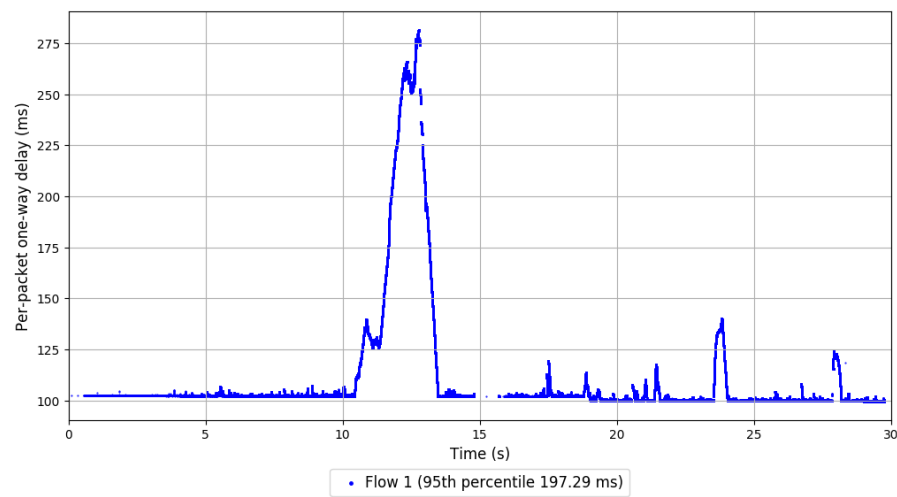
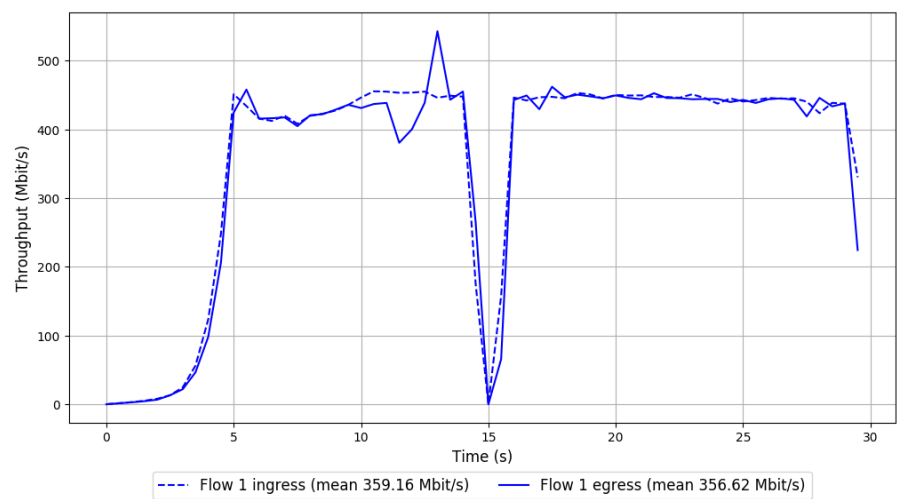
-- Flow 1:

Average throughput: 356.62 Mbit/s

95th percentile per-packet one-way delay: 197.288 ms

Loss rate: 1.46%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

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

End at: 2018-03-20 06:13:06

Below is generated by plot.py at 2018-03-20 12:11:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 259.79 Mbit/s

95th percentile per-packet one-way delay: 106.133 ms

Loss rate: 1.04%

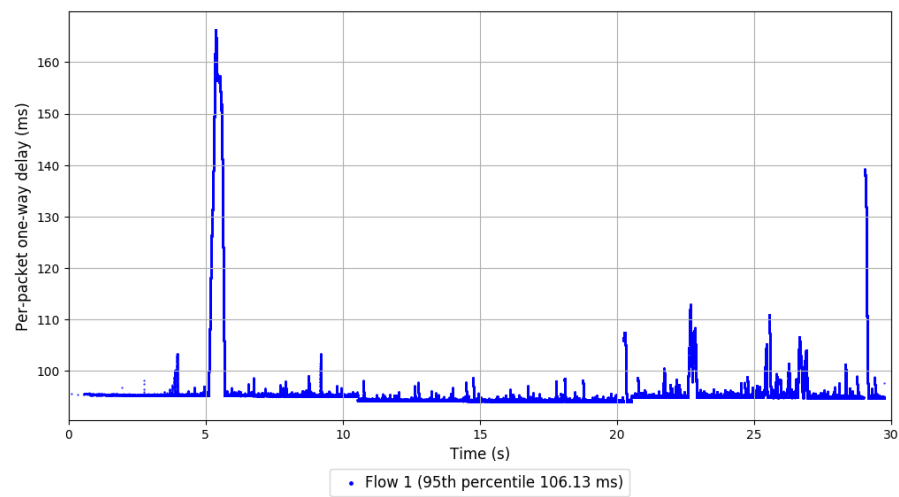
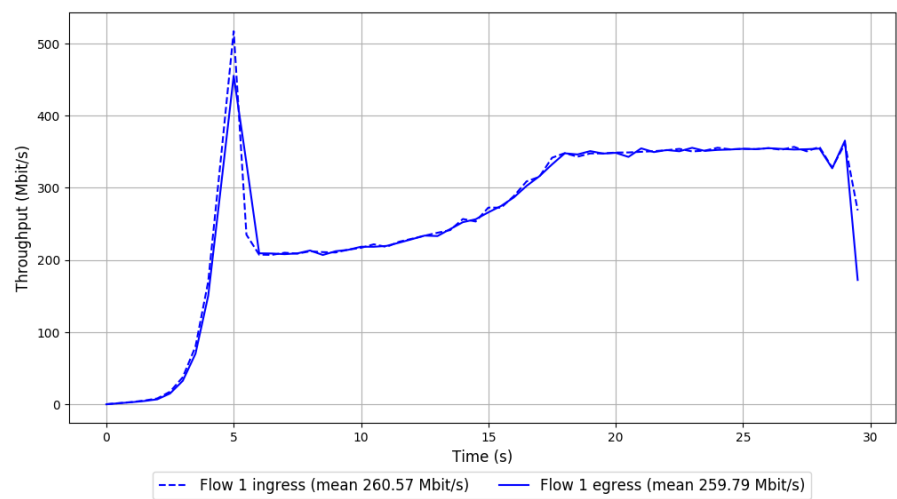
-- Flow 1:

Average throughput: 259.79 Mbit/s

95th percentile per-packet one-way delay: 106.133 ms

Loss rate: 1.04%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-20 06:28:04

End at: 2018-03-20 06:28:34

Below is generated by plot.py at 2018-03-20 12:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.50 Mbit/s

95th percentile per-packet one-way delay: 197.672 ms

Loss rate: 2.68%

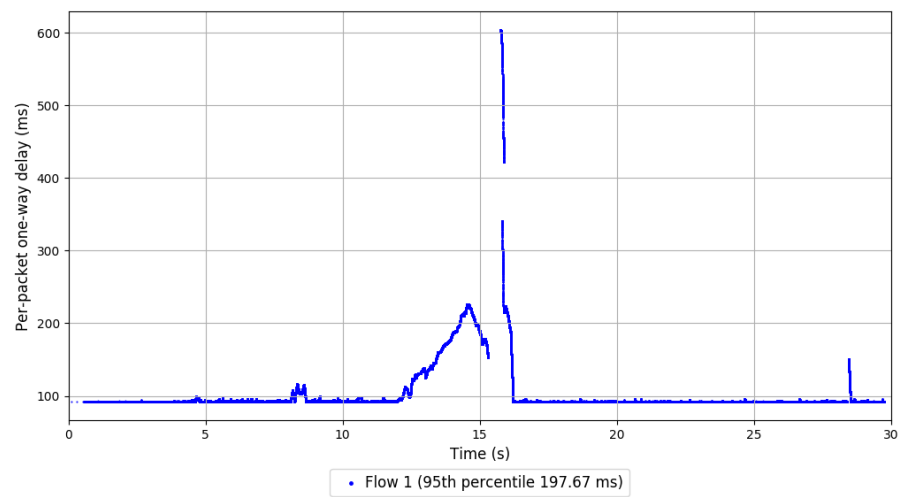
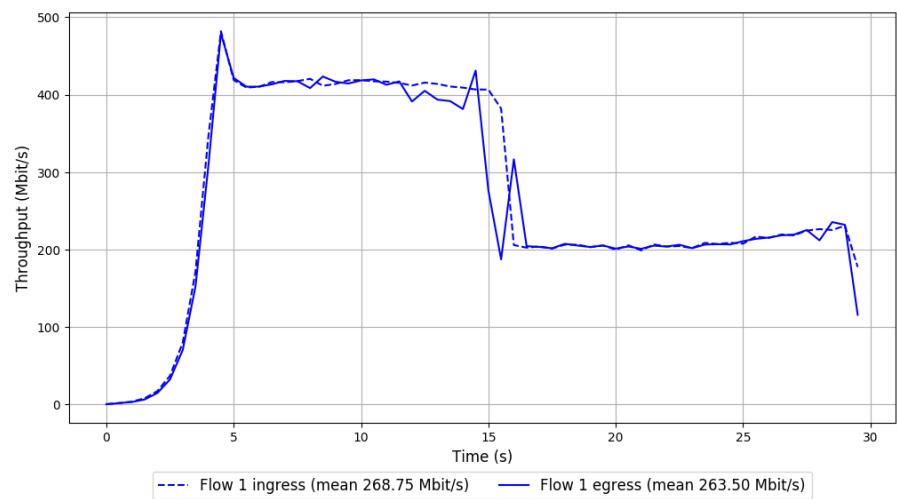
-- Flow 1:

Average throughput: 263.50 Mbit/s

95th percentile per-packet one-way delay: 197.672 ms

Loss rate: 2.68%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-20 06:43:29

End at: 2018-03-20 06:43:59

Below is generated by plot.py at 2018-03-20 12:14:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.29 Mbit/s

95th percentile per-packet one-way delay: 83.328 ms

Loss rate: 0.91%

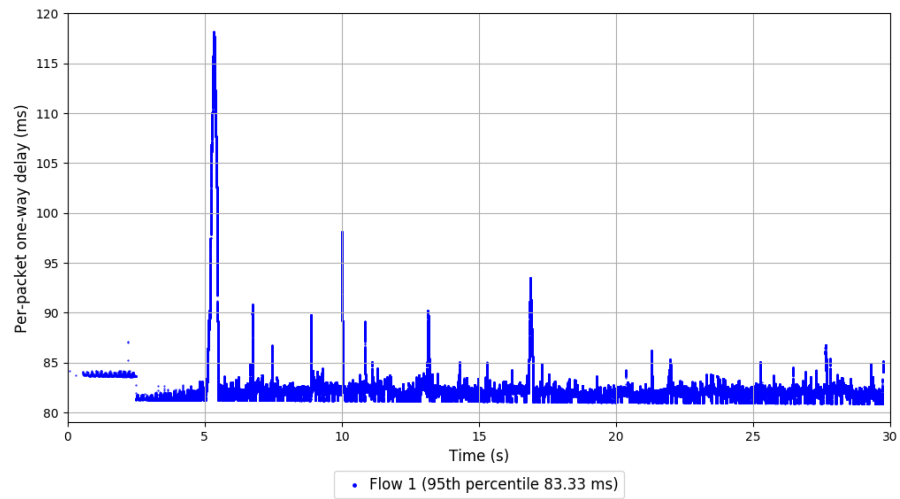
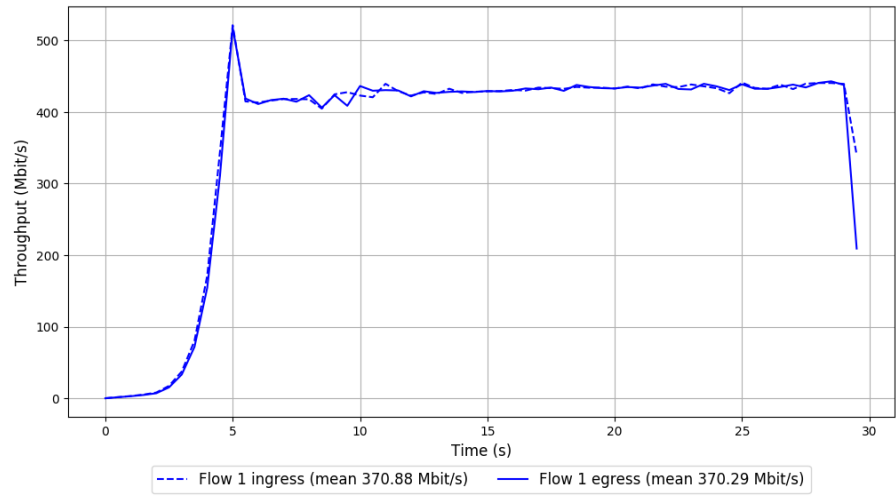
-- Flow 1:

Average throughput: 370.29 Mbit/s

95th percentile per-packet one-way delay: 83.328 ms

Loss rate: 0.91%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-20 06:59:25

End at: 2018-03-20 06:59:55

Below is generated by plot.py at 2018-03-20 12:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.18 Mbit/s

95th percentile per-packet one-way delay: 139.721 ms

Loss rate: 0.96%

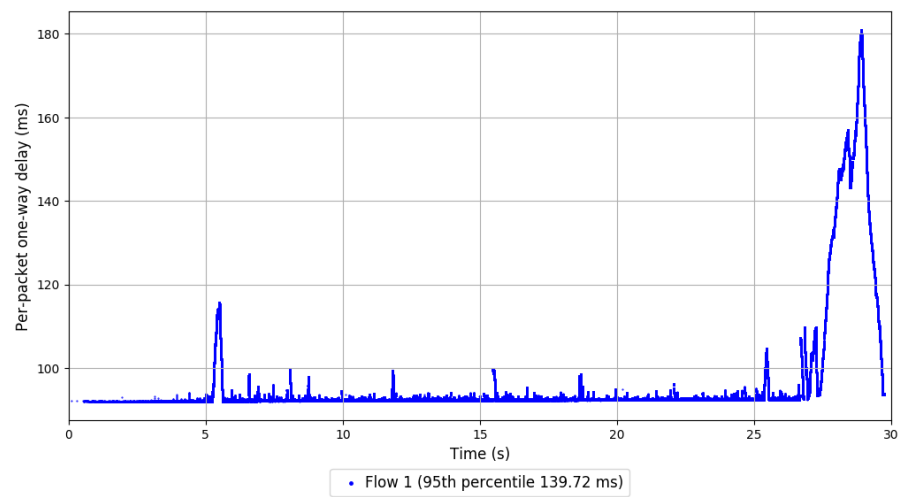
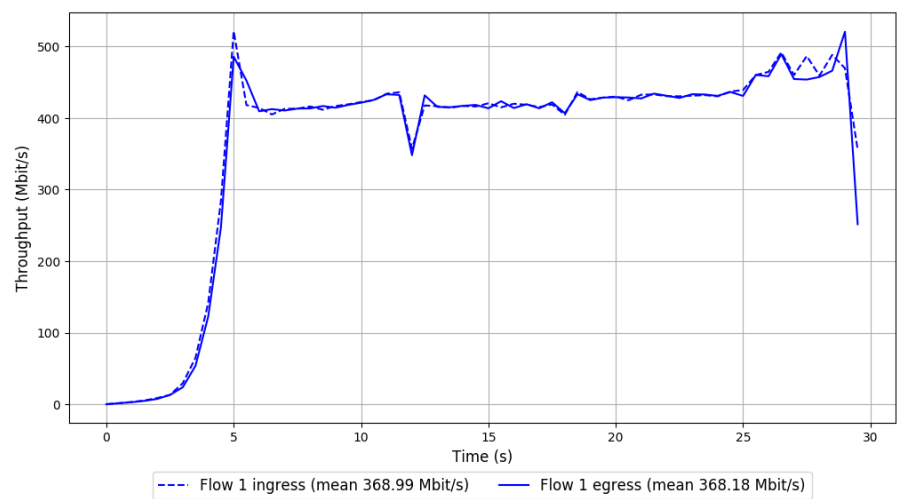
-- Flow 1:

Average throughput: 368.18 Mbit/s

95th percentile per-packet one-way delay: 139.721 ms

Loss rate: 0.96%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-20 07:14:52

End at: 2018-03-20 07:15:22

Below is generated by plot.py at 2018-03-20 12:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.92 Mbit/s

95th percentile per-packet one-way delay: 120.783 ms

Loss rate: 0.78%

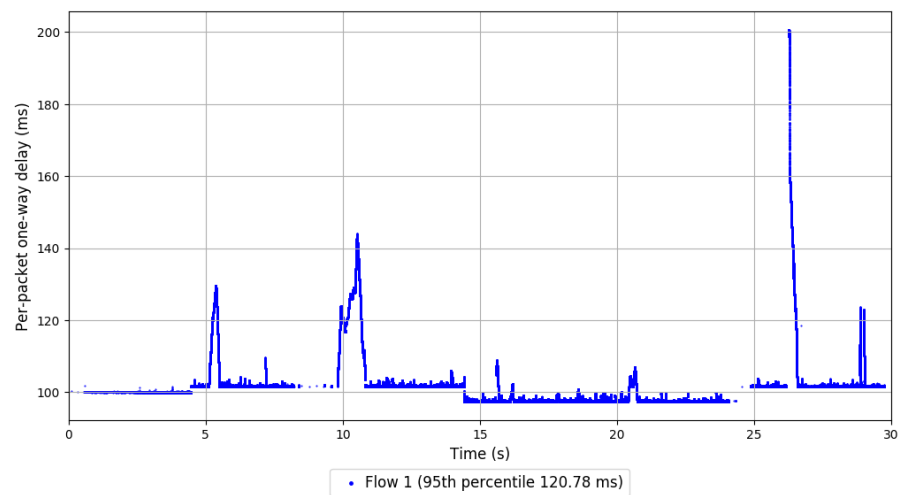
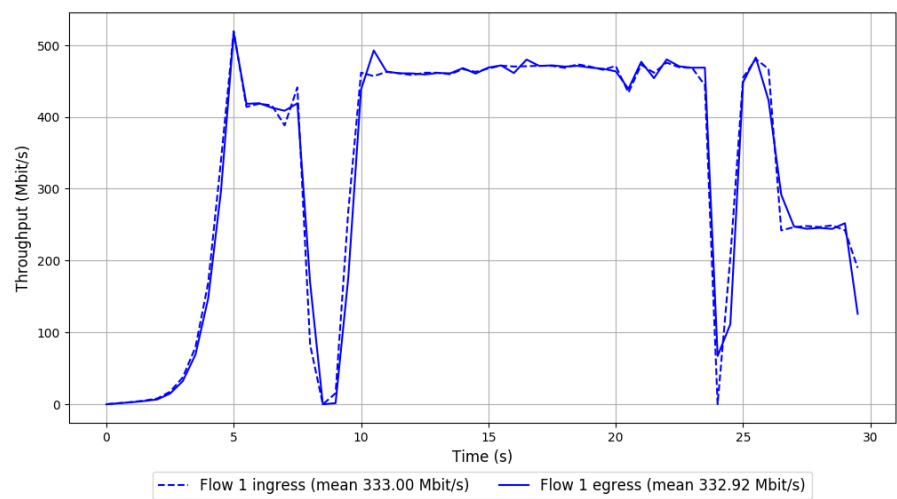
-- Flow 1:

Average throughput: 332.92 Mbit/s

95th percentile per-packet one-way delay: 120.783 ms

Loss rate: 0.78%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-20 07:30:10

End at: 2018-03-20 07:30:40

Below is generated by plot.py at 2018-03-20 12:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.68 Mbit/s

95th percentile per-packet one-way delay: 102.880 ms

Loss rate: 1.15%

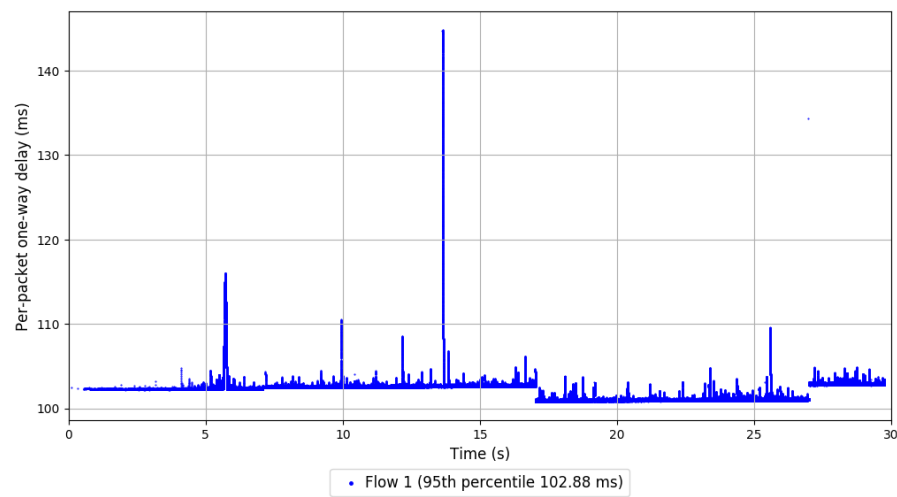
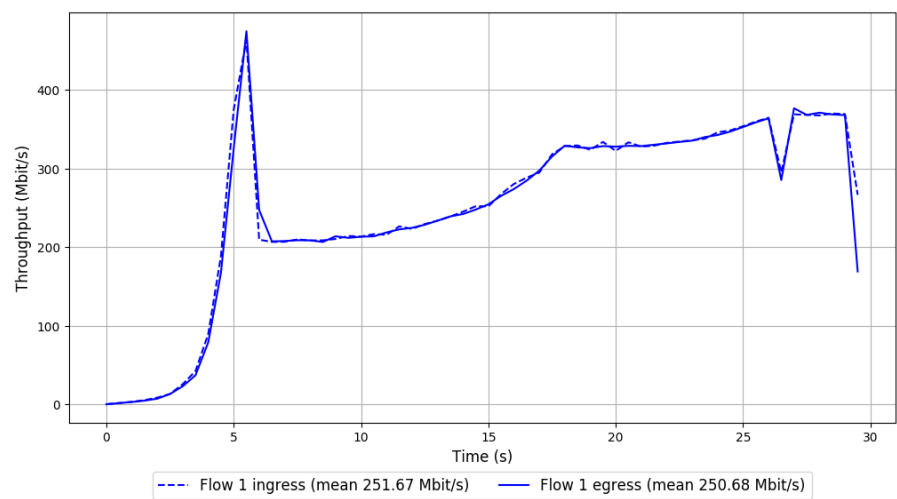
-- Flow 1:

Average throughput: 250.68 Mbit/s

95th percentile per-packet one-way delay: 102.880 ms

Loss rate: 1.15%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-20 07:45:32

End at: 2018-03-20 07:46:02

Below is generated by plot.py at 2018-03-20 12:15:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.67 Mbit/s

95th percentile per-packet one-way delay: 134.797 ms

Loss rate: 0.90%

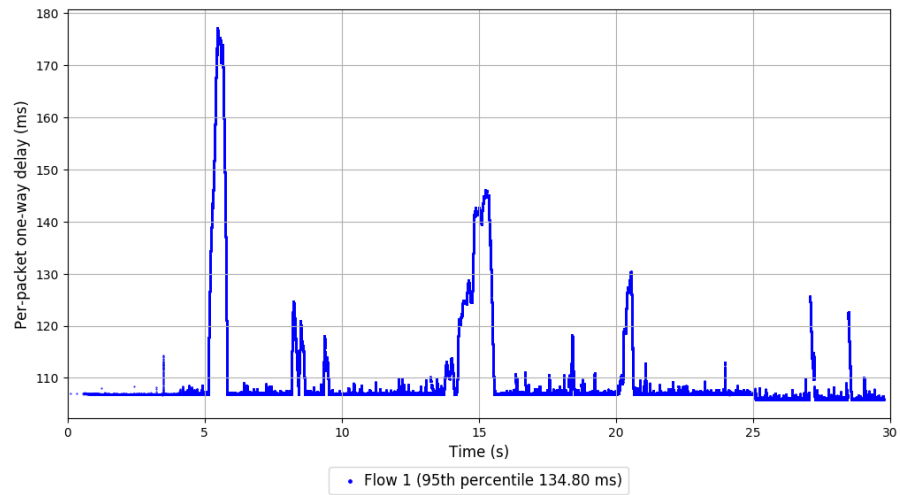
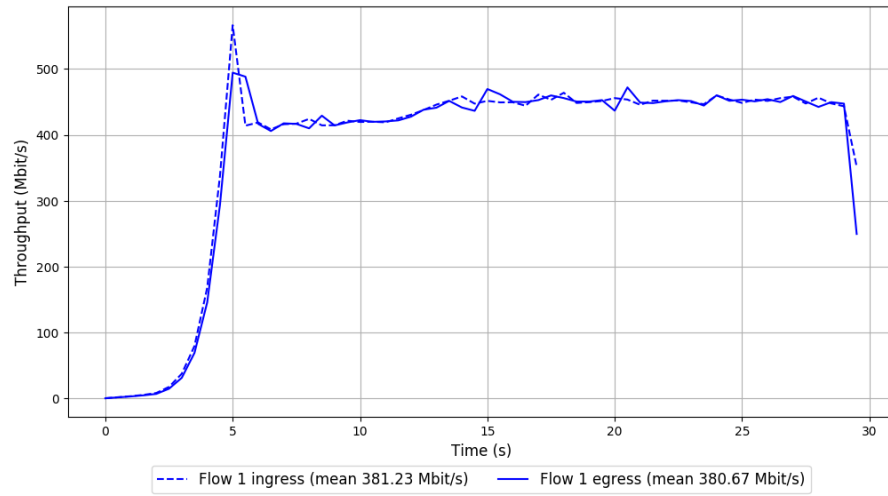
-- Flow 1:

Average throughput: 380.67 Mbit/s

95th percentile per-packet one-way delay: 134.797 ms

Loss rate: 0.90%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-20 08:01:08

End at: 2018-03-20 08:01:38

Below is generated by plot.py at 2018-03-20 12:15:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.01 Mbit/s

95th percentile per-packet one-way delay: 123.783 ms

Loss rate: 0.91%

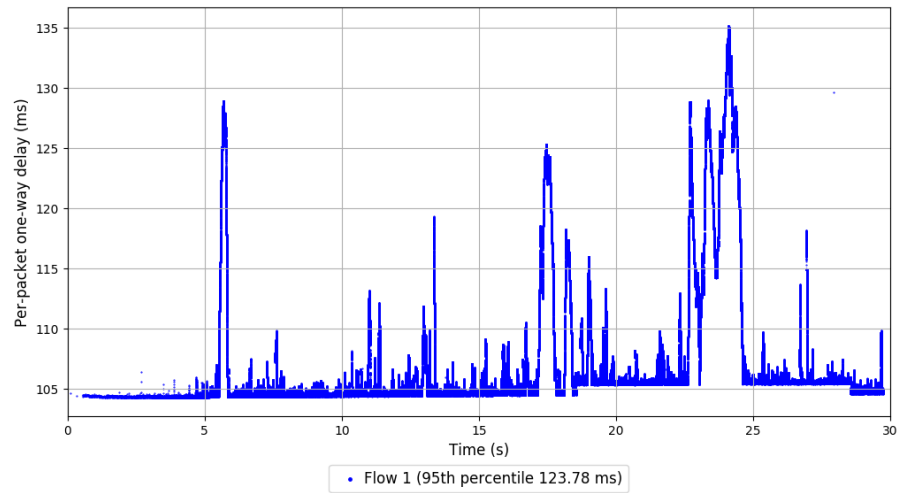
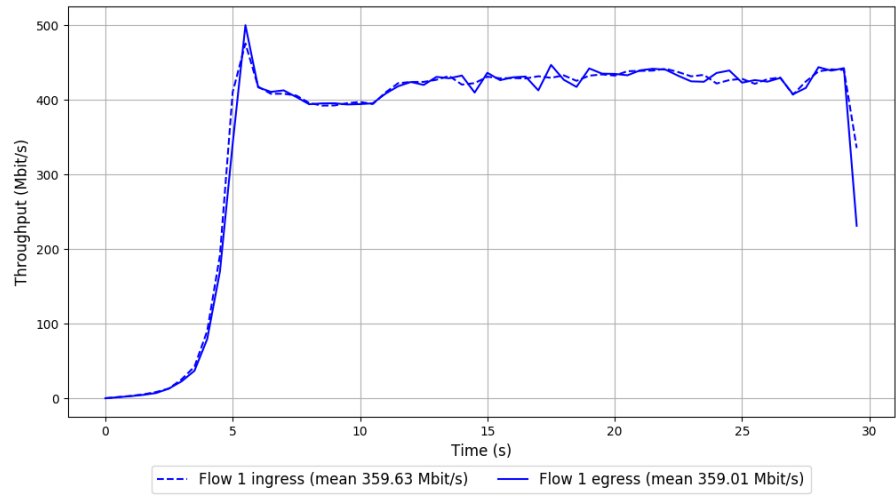
-- Flow 1:

Average throughput: 359.01 Mbit/s

95th percentile per-packet one-way delay: 123.783 ms

Loss rate: 0.91%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-20 08:16:50

End at: 2018-03-20 08:17:20

Below is generated by plot.py at 2018-03-20 12:15:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.95 Mbit/s

95th percentile per-packet one-way delay: 149.213 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 378.95 Mbit/s

95th percentile per-packet one-way delay: 149.213 ms

Loss rate: 0.88%

Run 10: Report of Vivace-LTE — Data Link

