

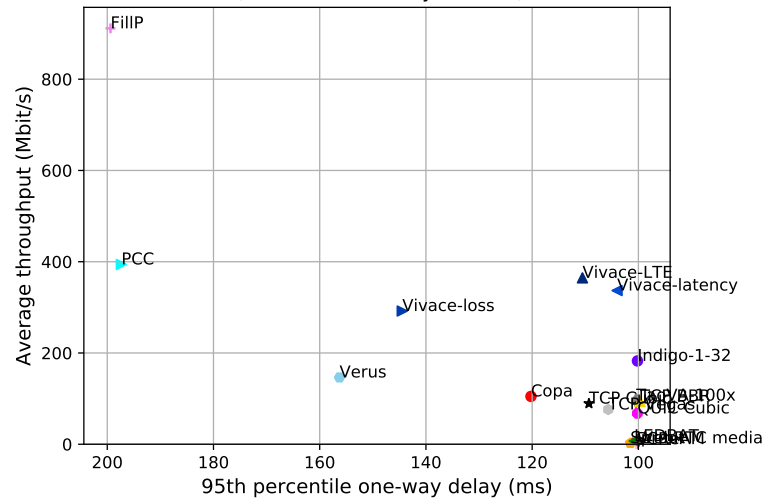
Pantheon Report

Generated at 2018-03-06 00:12:07 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE London Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

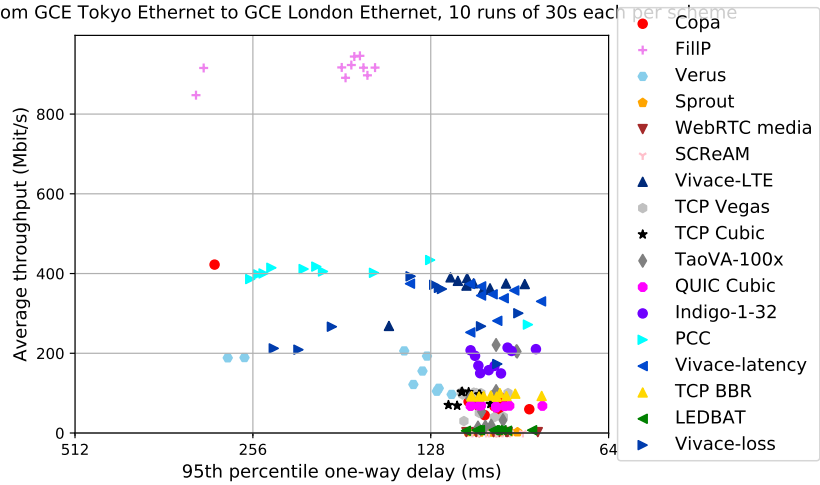
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ceec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 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	93.89	99.70	0.79
TCP Cubic	10	89.15	109.31	0.72
LEDBAT	10	6.79	100.81	1.53
PCC	10	394.03	197.34	1.85
QUIC Cubic	9	67.55	100.19	0.99
SCReAM	10	0.22	100.43	0.76
WebRTC media	10	2.15	100.25	0.93
Sprout	10	2.39	101.52	0.81
TaoVA-100x	10	95.61	100.41	0.80
TCP Vegas	10	76.14	105.68	0.79
Verus	10	146.38	156.28	0.95
Copa	10	104.84	120.23	3.53
FillP	10	911.47	199.39	3.21
Indigo-1-32	10	182.57	100.17	0.77
Vivace-latency	10	336.84	104.02	0.88
Vivace-loss	10	291.93	144.46	1.30
Vivace-LTE	10	364.66	110.53	0.95

Run 1: Statistics of TCP BBR

Start at: 2018-03-05 17:43:26

End at: 2018-03-05 17:43:56

Below is generated by plot.py at 2018-03-05 23:03:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.60 Mbit/s

95th percentile per-packet one-way delay: 109.230 ms

Loss rate: 0.79%

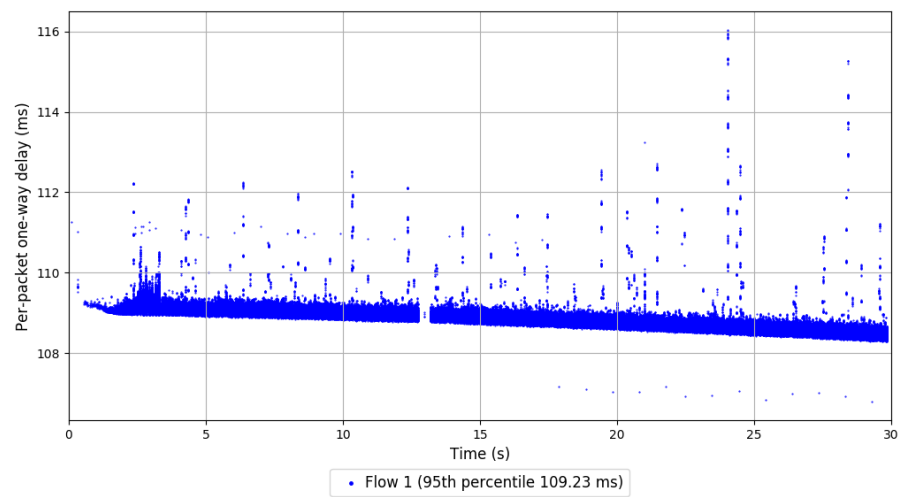
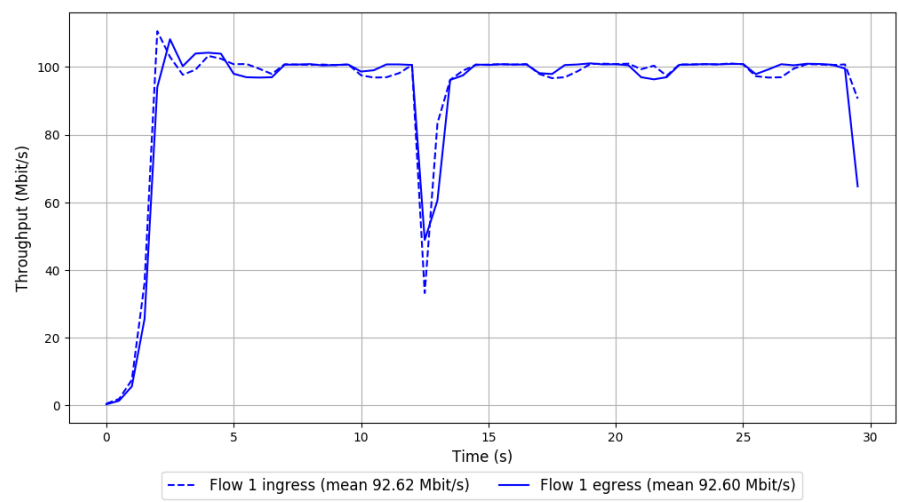
-- Flow 1:

Average throughput: 92.60 Mbit/s

95th percentile per-packet one-way delay: 109.230 ms

Loss rate: 0.79%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-05 17:59:16

End at: 2018-03-05 17:59:46

Below is generated by plot.py at 2018-03-05 23:03:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 101.277 ms

Loss rate: 0.77%

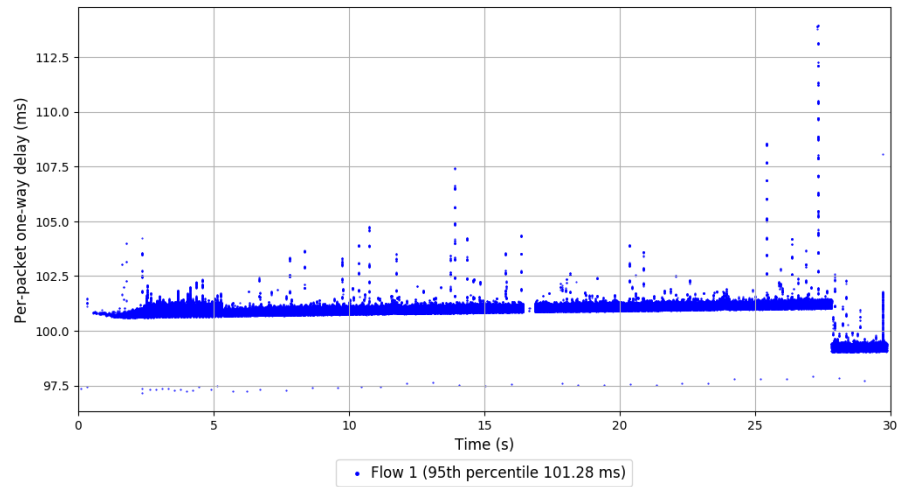
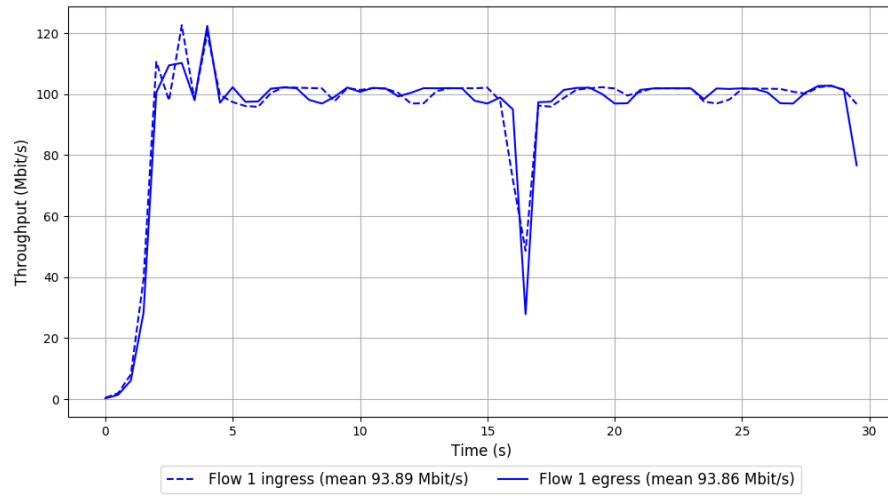
-- Flow 1:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 101.277 ms

Loss rate: 0.77%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-05 18:14:45

End at: 2018-03-05 18:15:15

Below is generated by plot.py at 2018-03-05 23:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.77 Mbit/s

95th percentile per-packet one-way delay: 92.073 ms

Loss rate: 0.73%

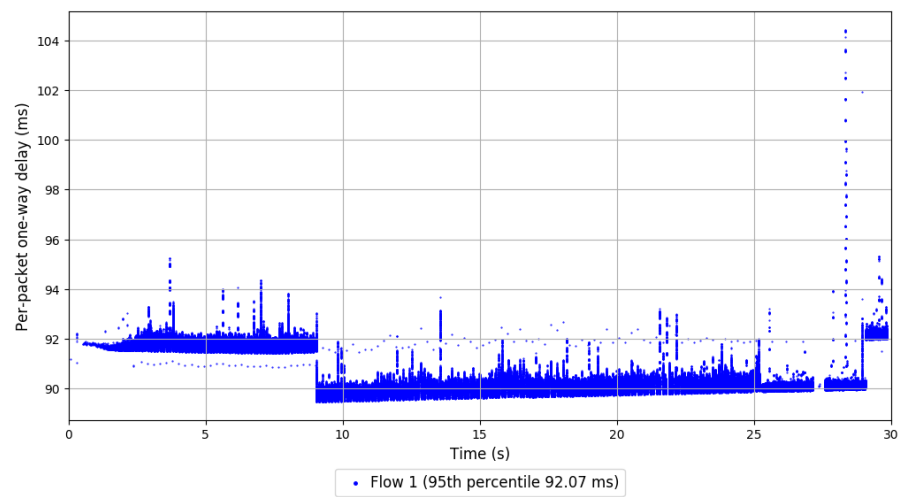
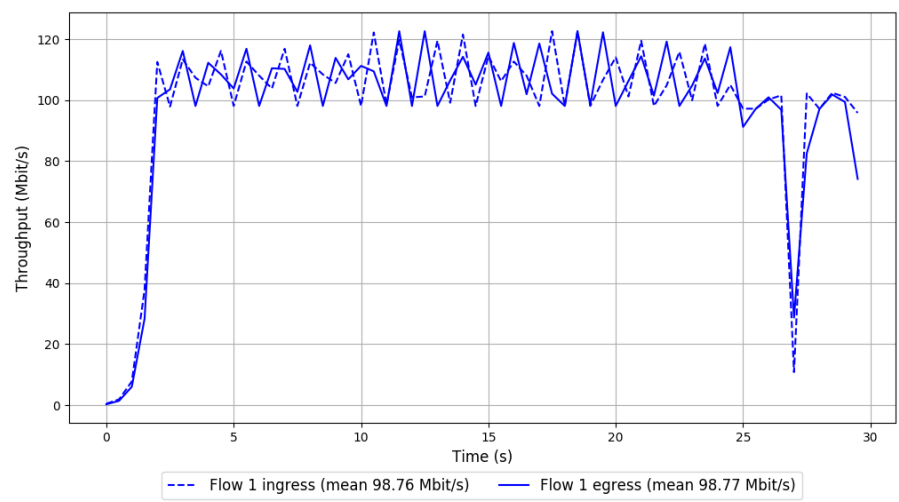
-- Flow 1:

Average throughput: 98.77 Mbit/s

95th percentile per-packet one-way delay: 92.073 ms

Loss rate: 0.73%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-05 18:30:29

End at: 2018-03-05 18:30:59

Below is generated by plot.py at 2018-03-05 23:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 95.296 ms

Loss rate: 0.78%

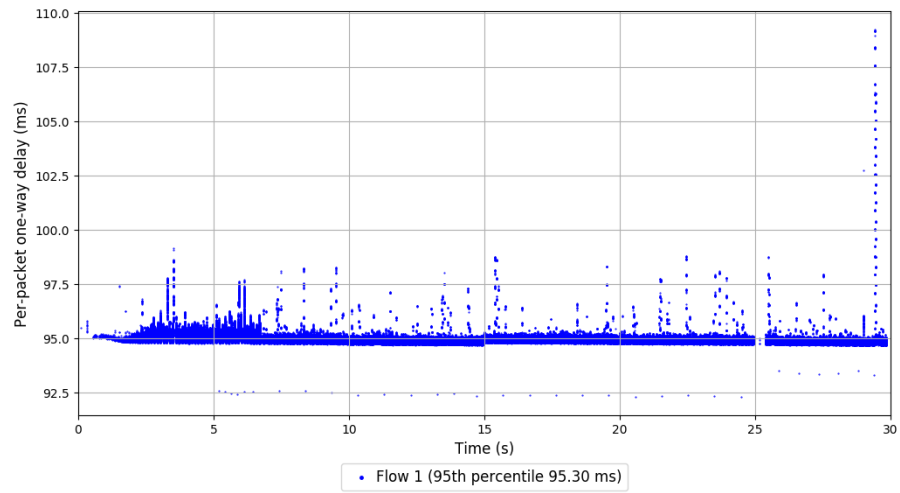
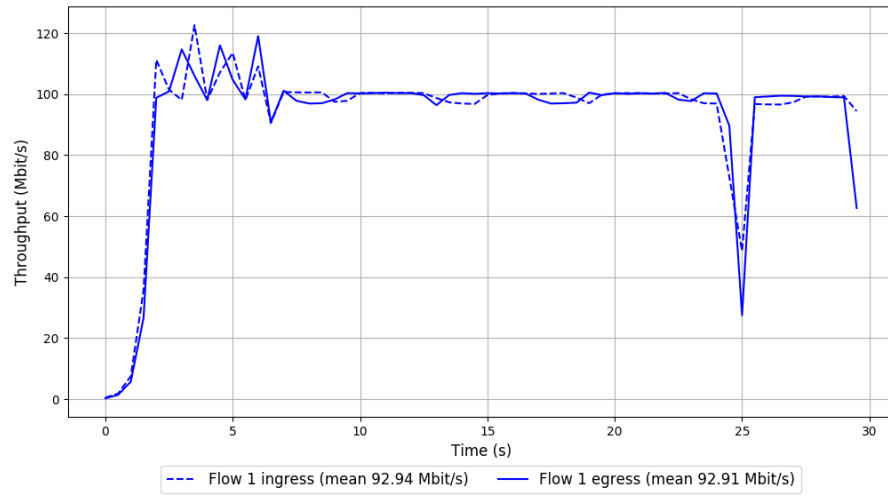
-- Flow 1:

Average throughput: 92.91 Mbit/s

95th percentile per-packet one-way delay: 95.296 ms

Loss rate: 0.78%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-05 18:46:57

End at: 2018-03-05 18:47:27

Below is generated by plot.py at 2018-03-05 23:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 83.081 ms

Loss rate: 0.87%

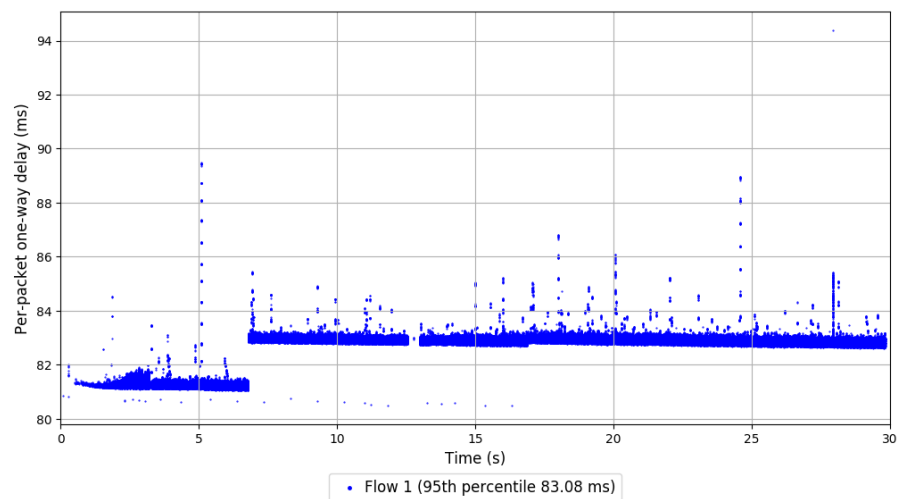
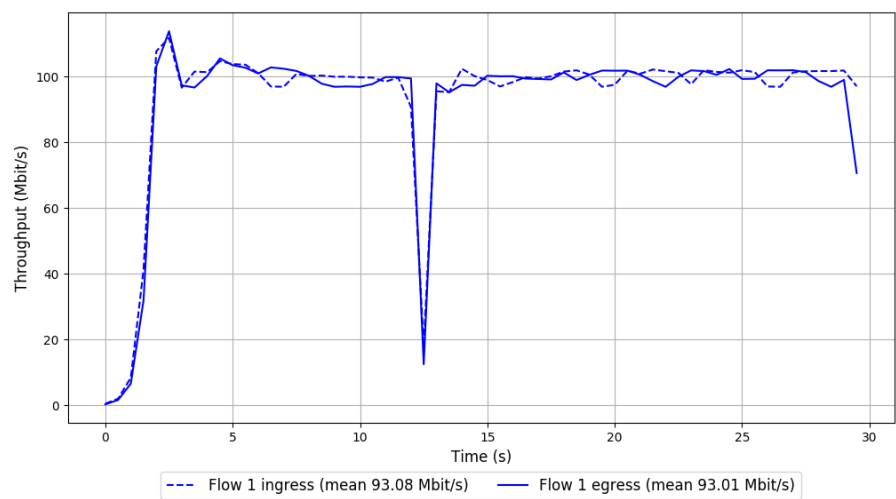
-- Flow 1:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 83.081 ms

Loss rate: 0.87%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-05 19:03:21

End at: 2018-03-05 19:03:52

Below is generated by plot.py at 2018-03-05 23:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 99.004 ms

Loss rate: 0.80%

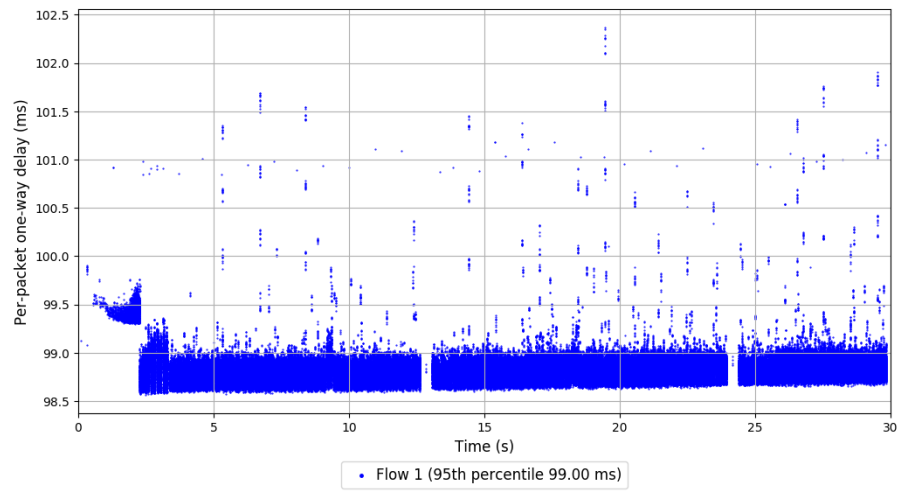
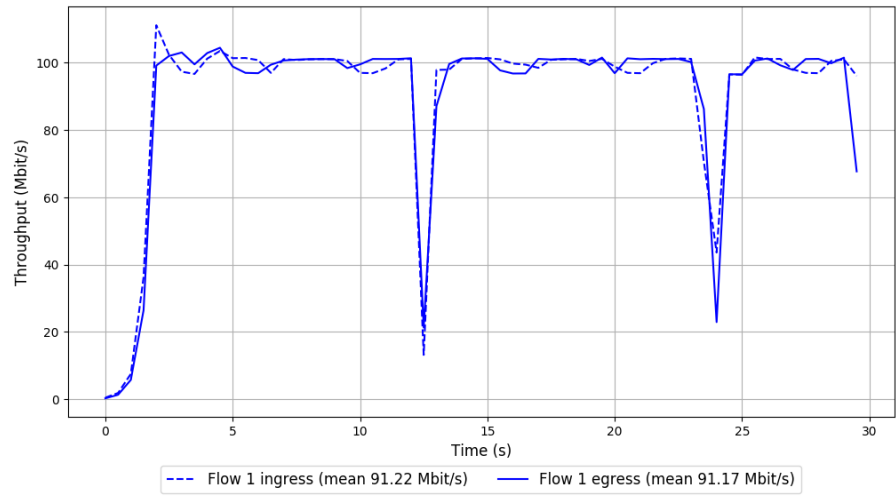
-- Flow 1:

Average throughput: 91.17 Mbit/s

95th percentile per-packet one-way delay: 99.004 ms

Loss rate: 0.80%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-05 19:18:56

End at: 2018-03-05 19:19:26

Below is generated by plot.py at 2018-03-05 23:03:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.19 Mbit/s

95th percentile per-packet one-way delay: 97.757 ms

Loss rate: 0.75%

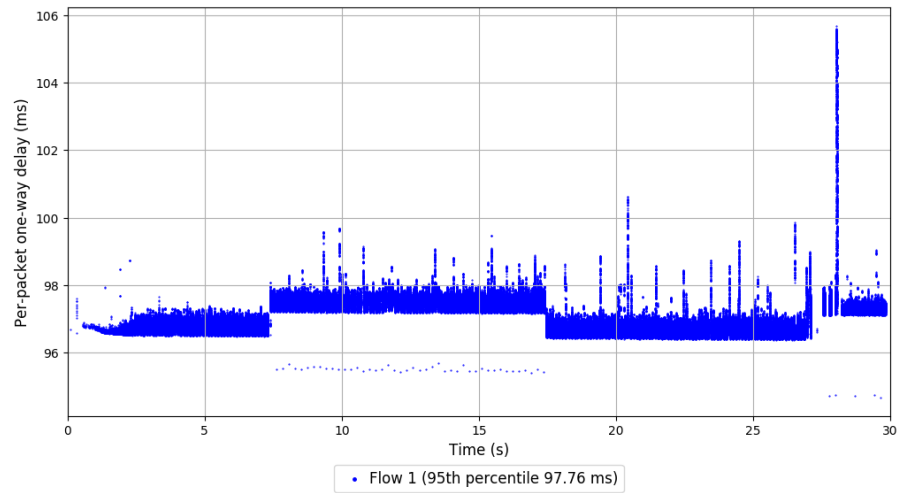
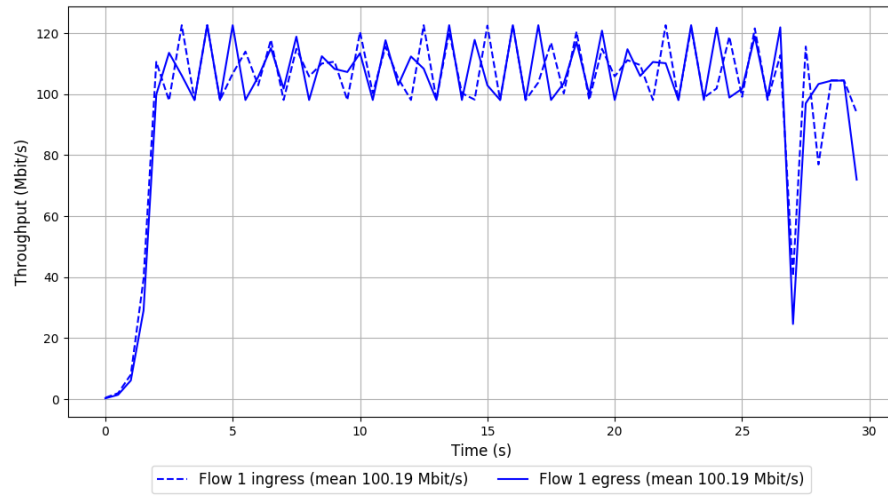
-- Flow 1:

Average throughput: 100.19 Mbit/s

95th percentile per-packet one-way delay: 97.757 ms

Loss rate: 0.75%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-05 19:34:16

End at: 2018-03-05 19:34:46

Below is generated by plot.py at 2018-03-05 23:03:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 104.160 ms

Loss rate: 0.79%

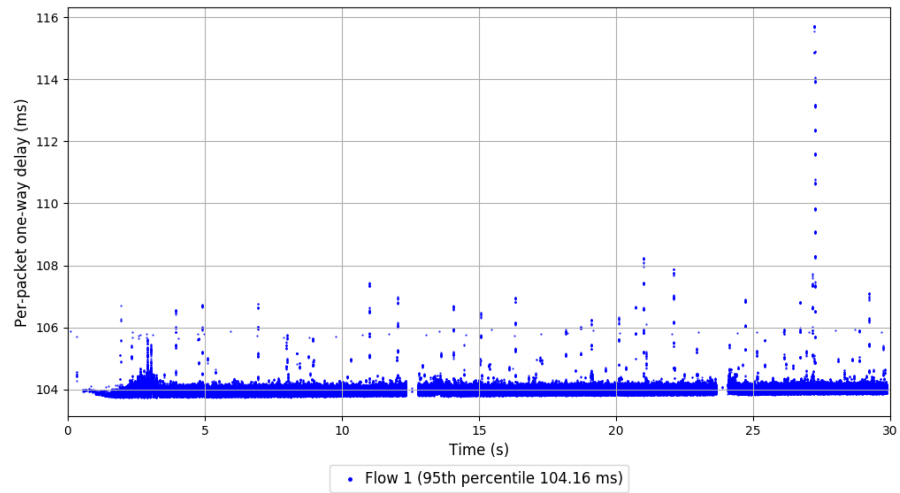
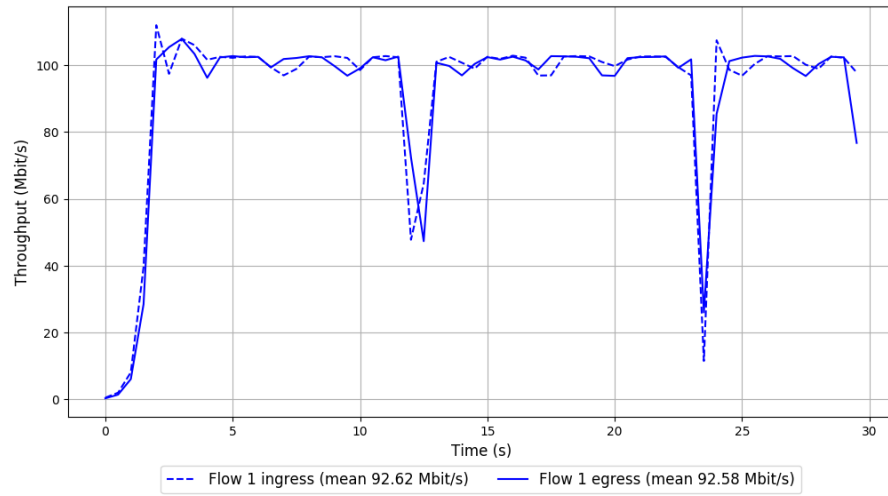
-- Flow 1:

Average throughput: 92.58 Mbit/s

95th percentile per-packet one-way delay: 104.160 ms

Loss rate: 0.79%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-05 19:49:48

End at: 2018-03-05 19:50:18

Below is generated by plot.py at 2018-03-05 23:05:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 106.074 ms

Loss rate: 0.79%

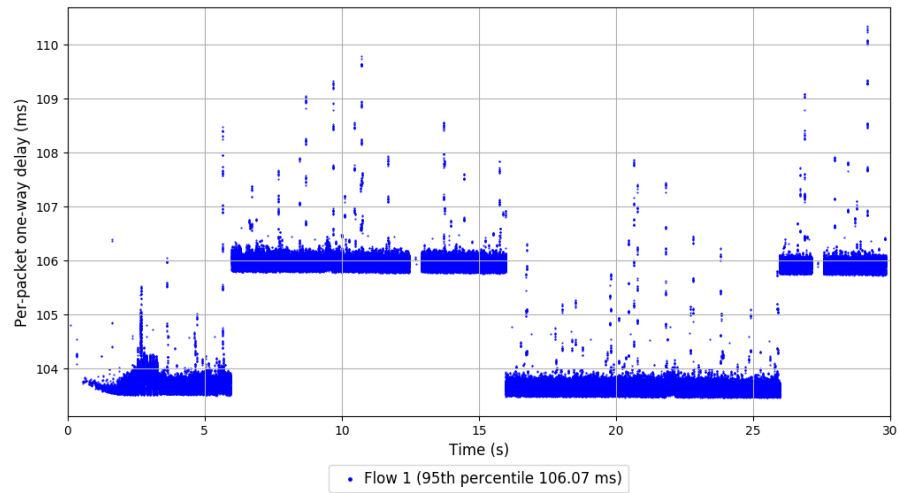
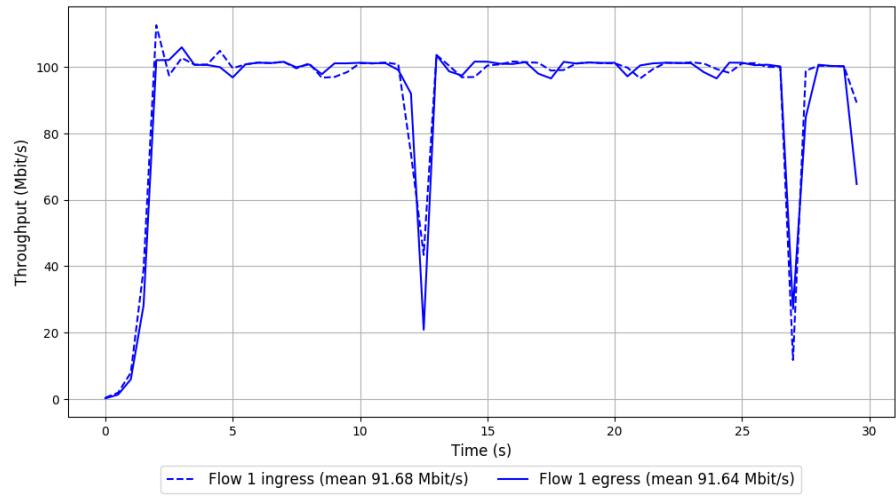
-- Flow 1:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 106.074 ms

Loss rate: 0.79%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

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

End at: 2018-03-05 20:05:33

Below is generated by plot.py at 2018-03-05 23:05:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 109.077 ms

Loss rate: 0.79%

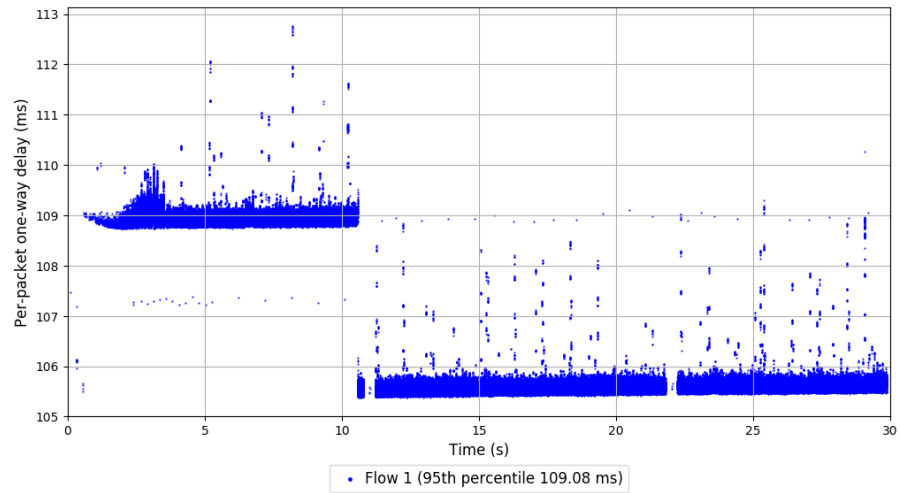
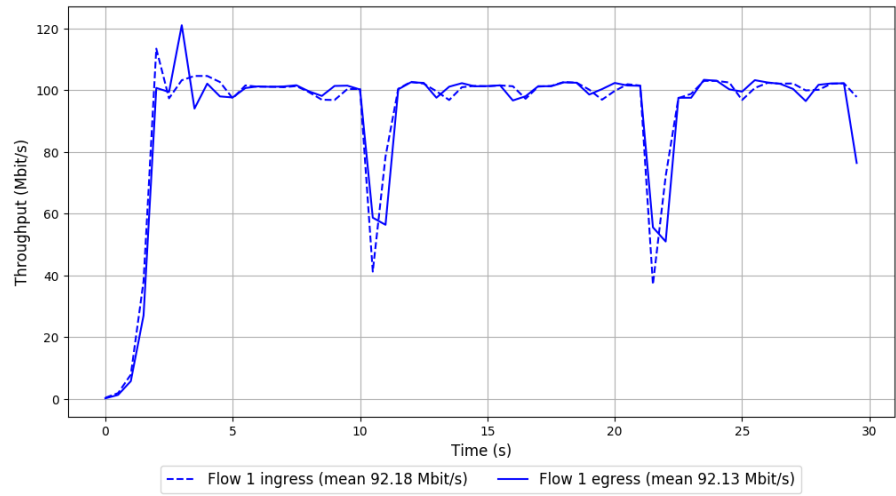
-- Flow 1:

Average throughput: 92.13 Mbit/s

95th percentile per-packet one-way delay: 109.077 ms

Loss rate: 0.79%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-05 17:48:10

End at: 2018-03-05 17:48:40

Below is generated by plot.py at 2018-03-05 23:05:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.59 Mbit/s

95th percentile per-packet one-way delay: 113.516 ms

Loss rate: 0.80%

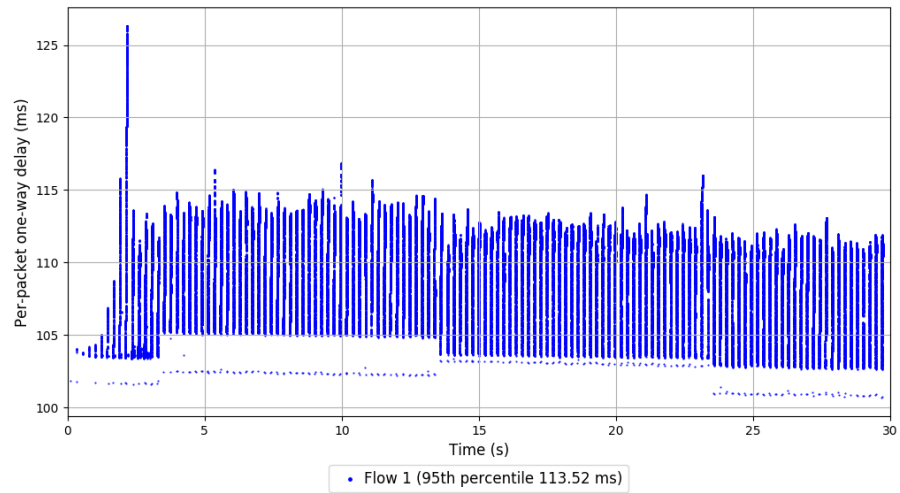
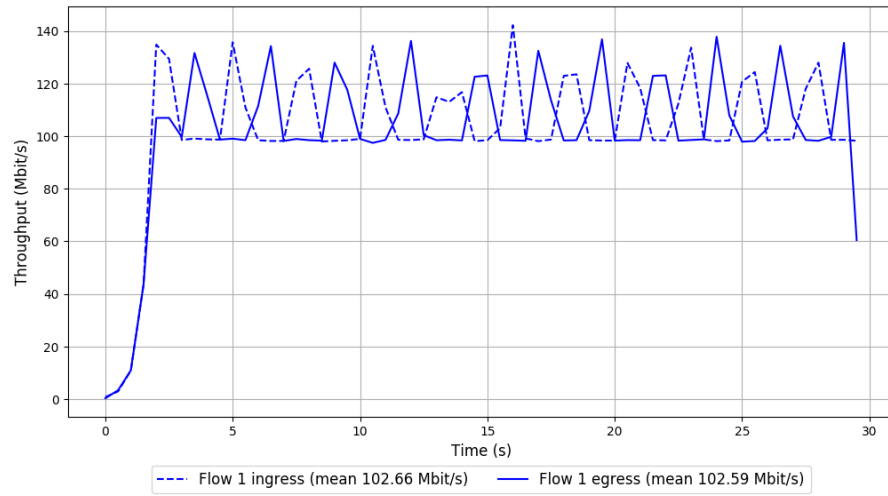
-- Flow 1:

Average throughput: 102.59 Mbit/s

95th percentile per-packet one-way delay: 113.516 ms

Loss rate: 0.80%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-05 18:04:01

End at: 2018-03-05 18:04:31

Below is generated by plot.py at 2018-03-05 23:05:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.68 Mbit/s

95th percentile per-packet one-way delay: 110.438 ms

Loss rate: 0.85%

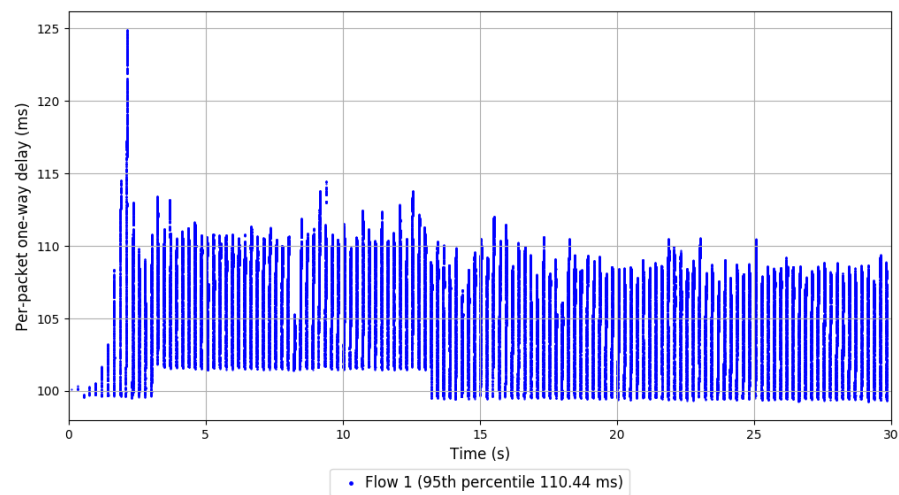
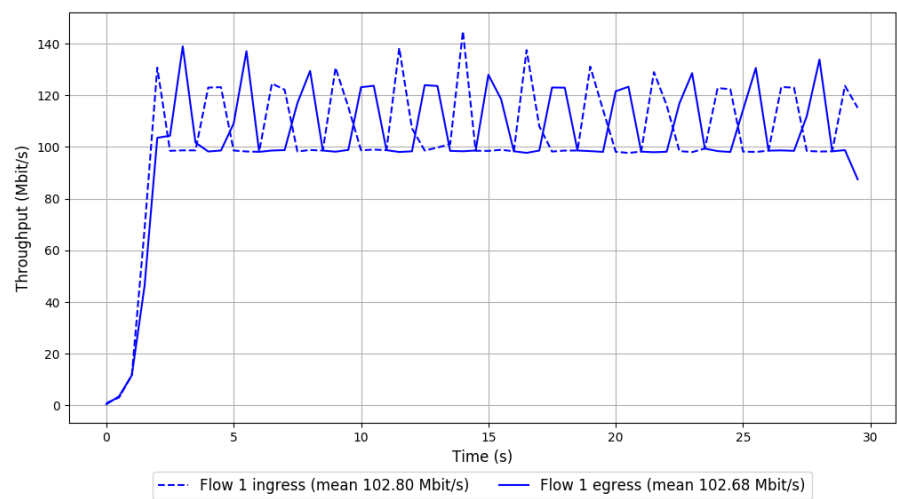
-- Flow 1:

Average throughput: 102.68 Mbit/s

95th percentile per-packet one-way delay: 110.438 ms

Loss rate: 0.85%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-05 18:19:33

End at: 2018-03-05 18:20:03

Below is generated by plot.py at 2018-03-05 23:05:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 105.618 ms

Loss rate: 0.49%

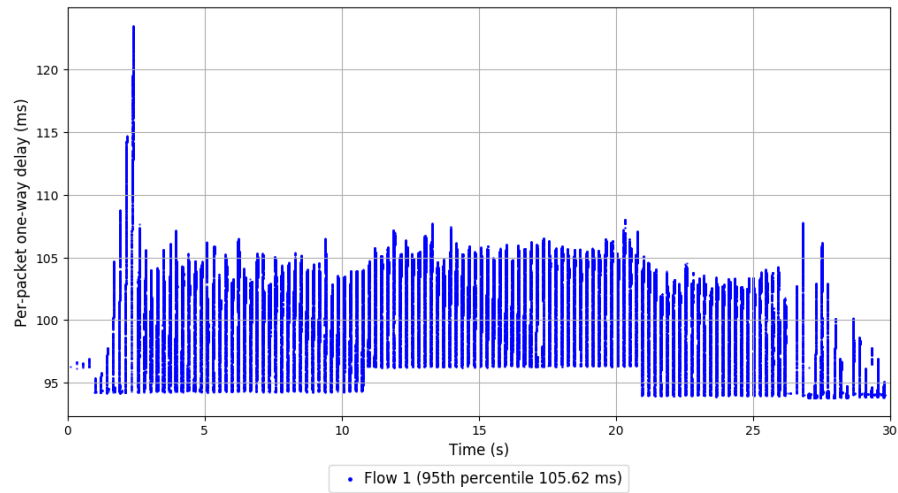
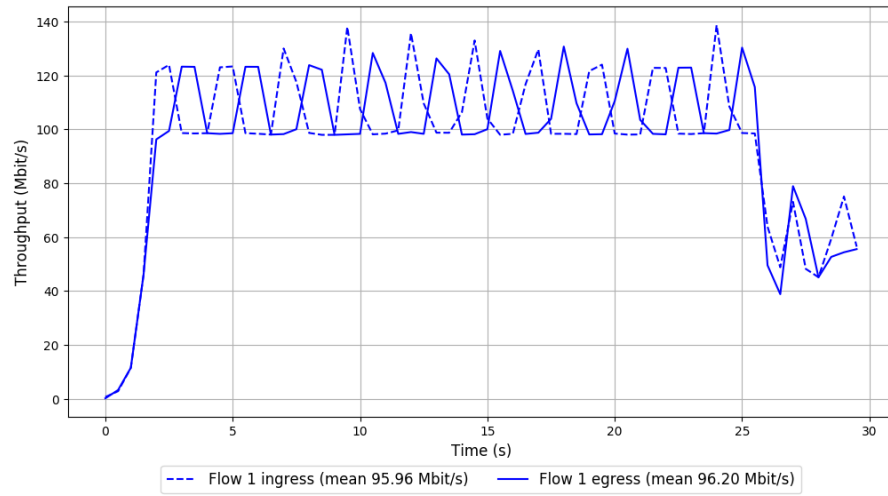
-- Flow 1:

Average throughput: 96.20 Mbit/s

95th percentile per-packet one-way delay: 105.618 ms

Loss rate: 0.49%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-05 18:35:40

End at: 2018-03-05 18:36:10

Below is generated by plot.py at 2018-03-05 23:05:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 101.426 ms

Loss rate: 1.08%

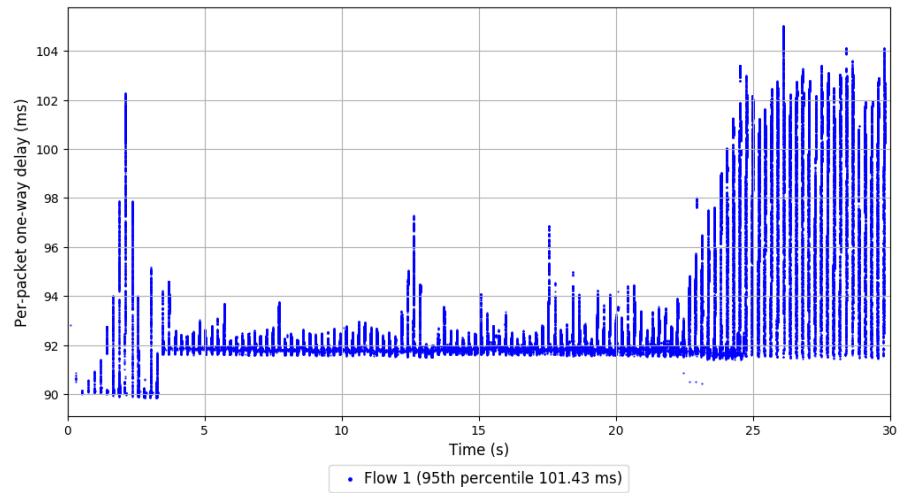
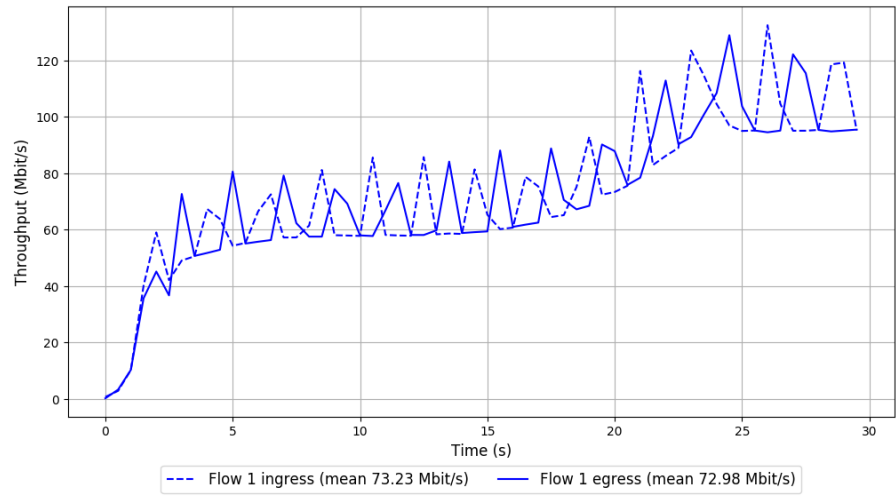
-- Flow 1:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 101.426 ms

Loss rate: 1.08%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-05 18:52:00

End at: 2018-03-05 18:52:30

Below is generated by plot.py at 2018-03-05 23:05:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.22 Mbit/s

95th percentile per-packet one-way delay: 99.095 ms

Loss rate: 0.81%

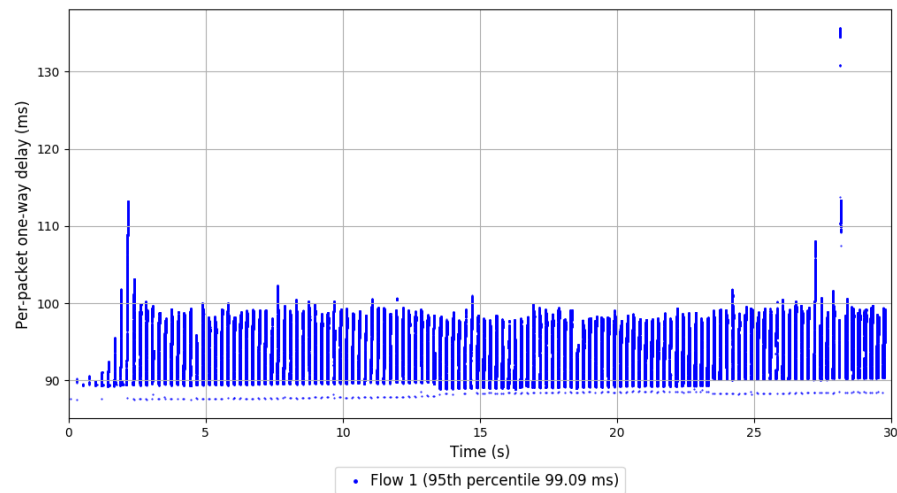
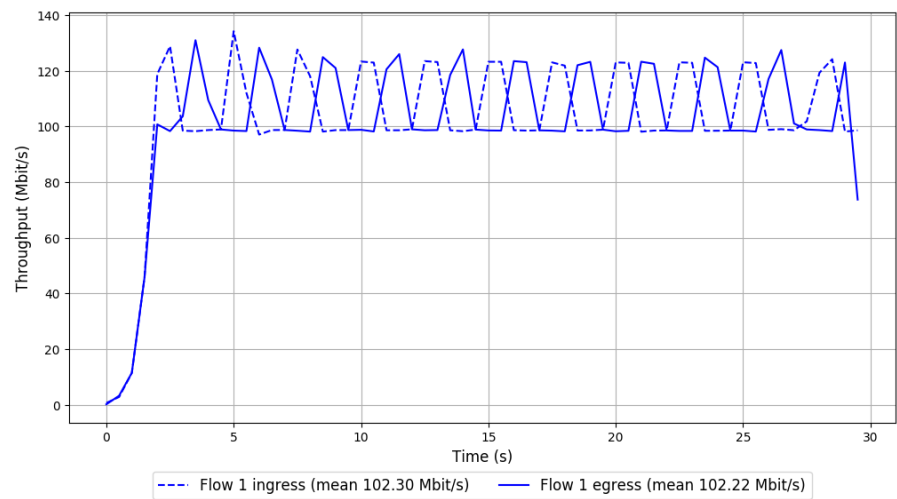
-- Flow 1:

Average throughput: 102.22 Mbit/s

95th percentile per-packet one-way delay: 99.095 ms

Loss rate: 0.81%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-05 19:08:04

End at: 2018-03-05 19:08:34

Below is generated by plot.py at 2018-03-05 23:05:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 108.792 ms

Loss rate: 0.87%

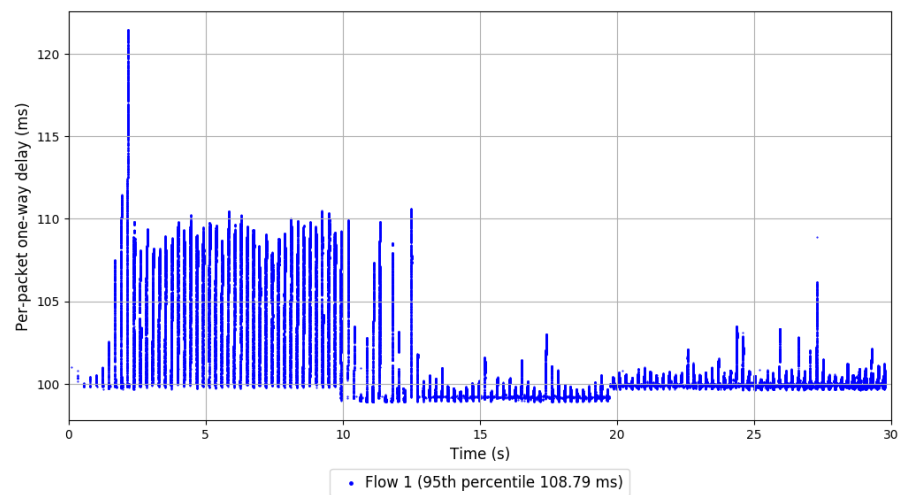
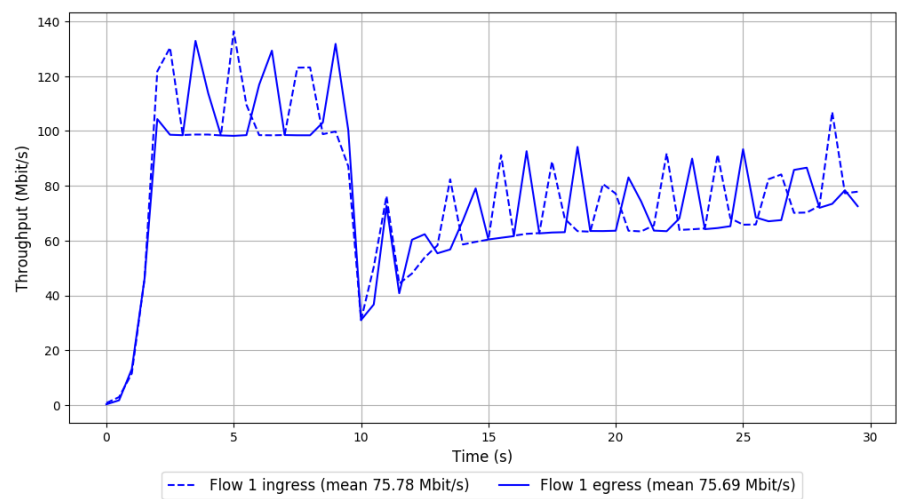
-- Flow 1:

Average throughput: 75.69 Mbit/s

95th percentile per-packet one-way delay: 108.792 ms

Loss rate: 0.87%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-05 19:23:40

End at: 2018-03-05 19:24:10

Below is generated by plot.py at 2018-03-05 23:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 106.054 ms

Loss rate: 0.47%

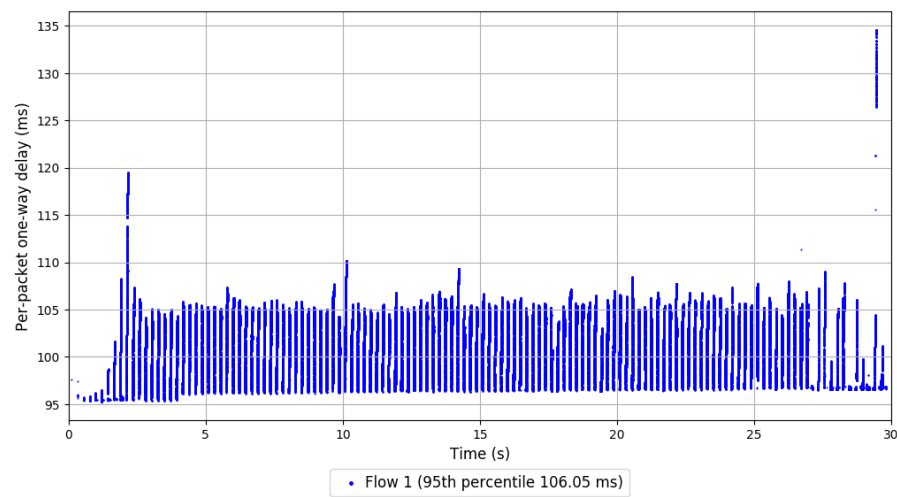
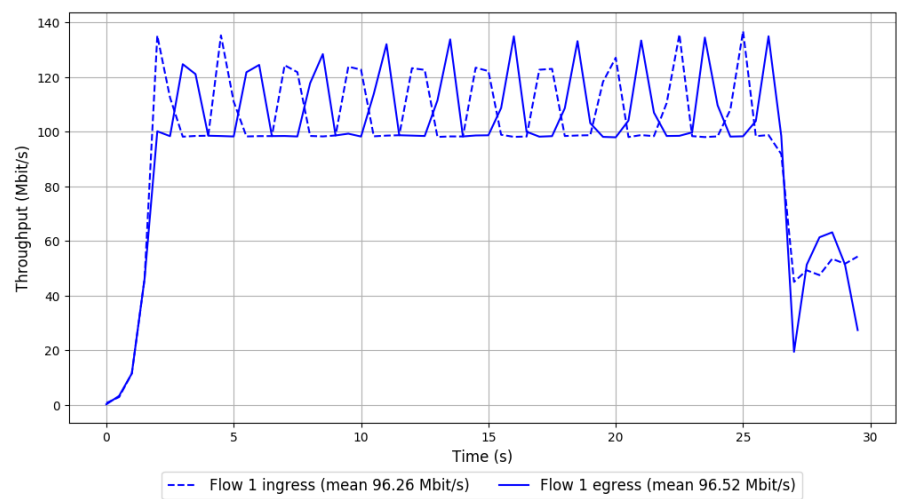
-- Flow 1:

Average throughput: 96.52 Mbit/s

95th percentile per-packet one-way delay: 106.054 ms

Loss rate: 0.47%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-05 19:39:01

End at: 2018-03-05 19:39:31

Below is generated by plot.py at 2018-03-05 23:06:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 115.493 ms

Loss rate: 0.61%

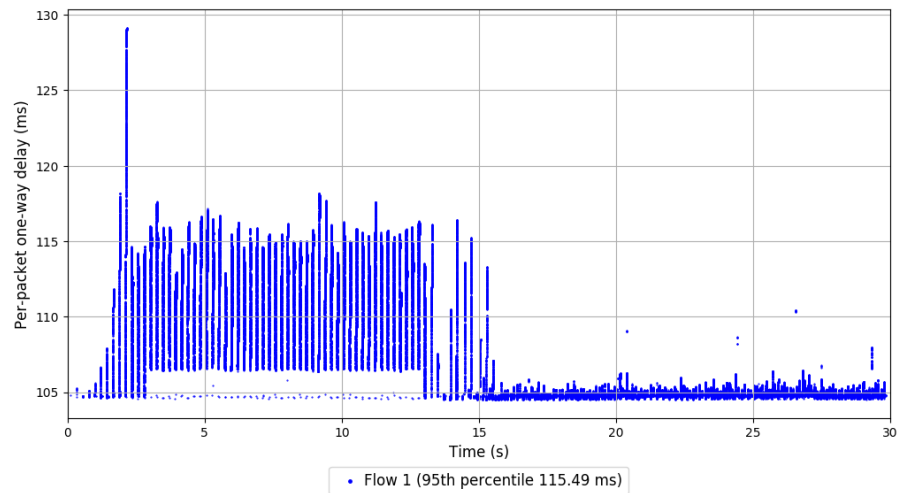
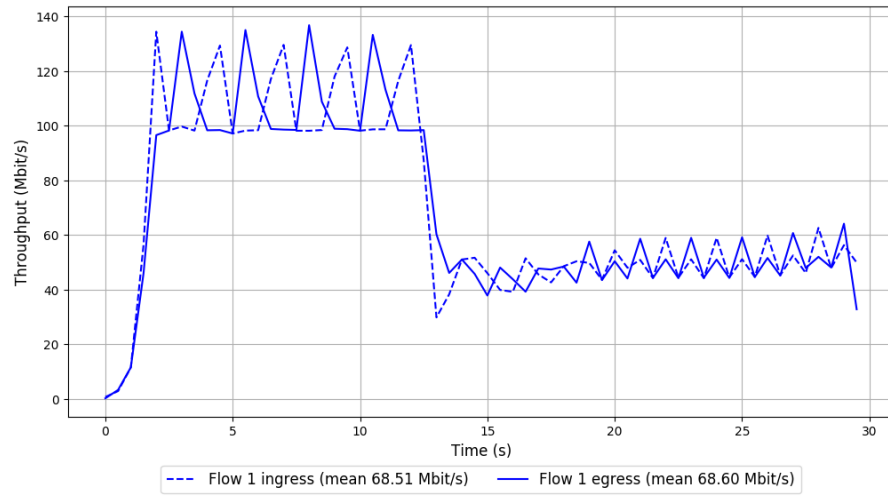
-- Flow 1:

Average throughput: 68.60 Mbit/s

95th percentile per-packet one-way delay: 115.493 ms

Loss rate: 0.61%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-05 19:54:30

End at: 2018-03-05 19:55:00

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.82 Mbit/s

95th percentile per-packet one-way delay: 113.239 ms

Loss rate: 0.79%

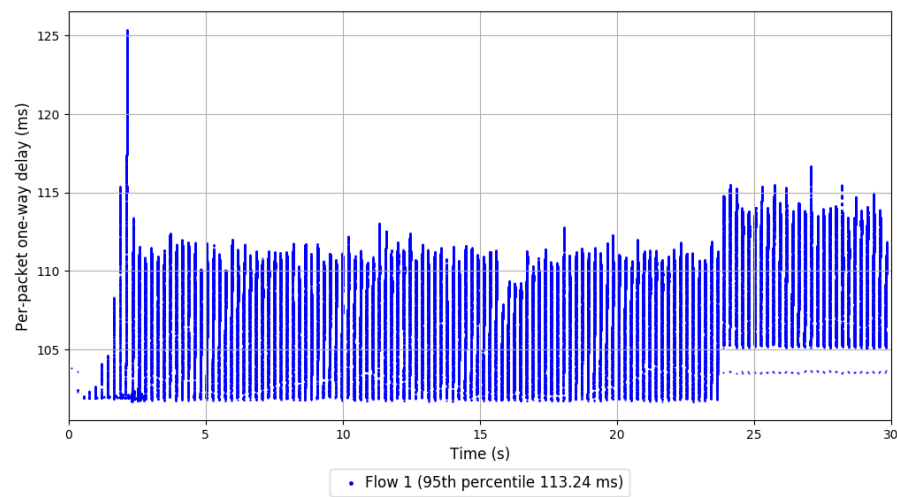
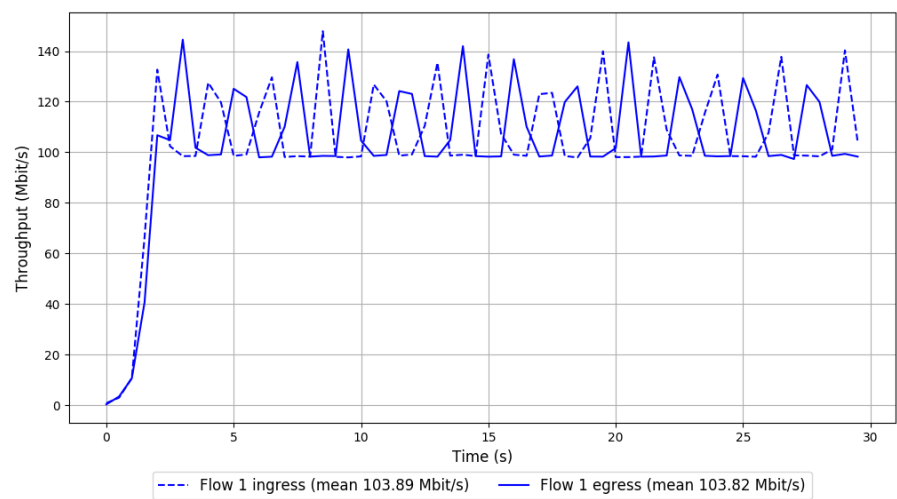
-- Flow 1:

Average throughput: 103.82 Mbit/s

95th percentile per-packet one-way delay: 113.239 ms

Loss rate: 0.79%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-05 20:09:51

End at: 2018-03-05 20:10:21

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.24 Mbit/s

95th percentile per-packet one-way delay: 119.468 ms

Loss rate: 0.47%

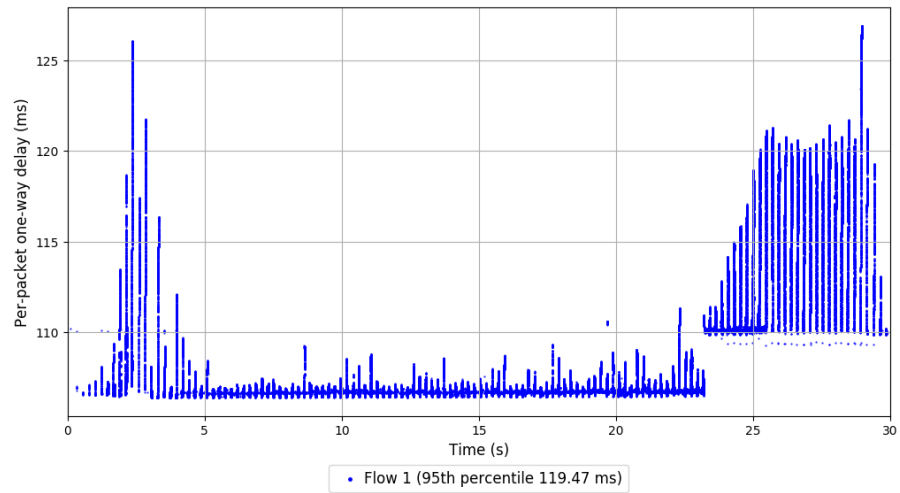
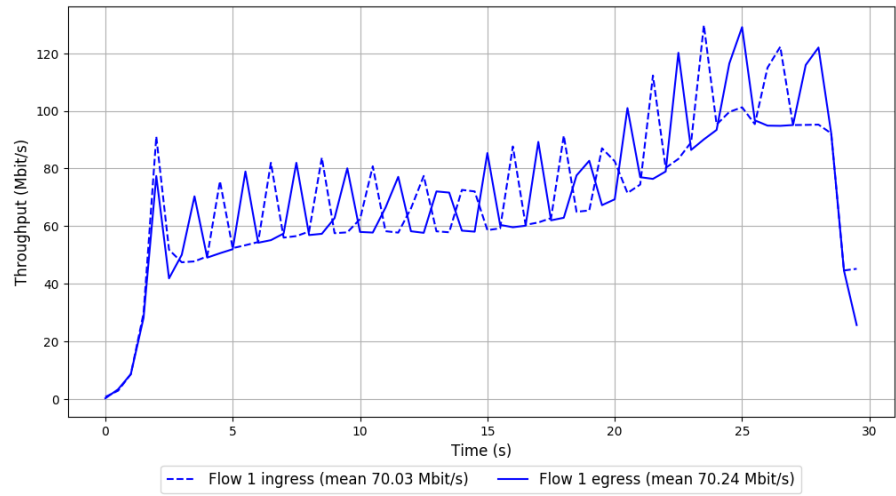
-- Flow 1:

Average throughput: 70.24 Mbit/s

95th percentile per-packet one-way delay: 119.468 ms

Loss rate: 0.47%

Run 10: Report of TCP Cubic — Data Link

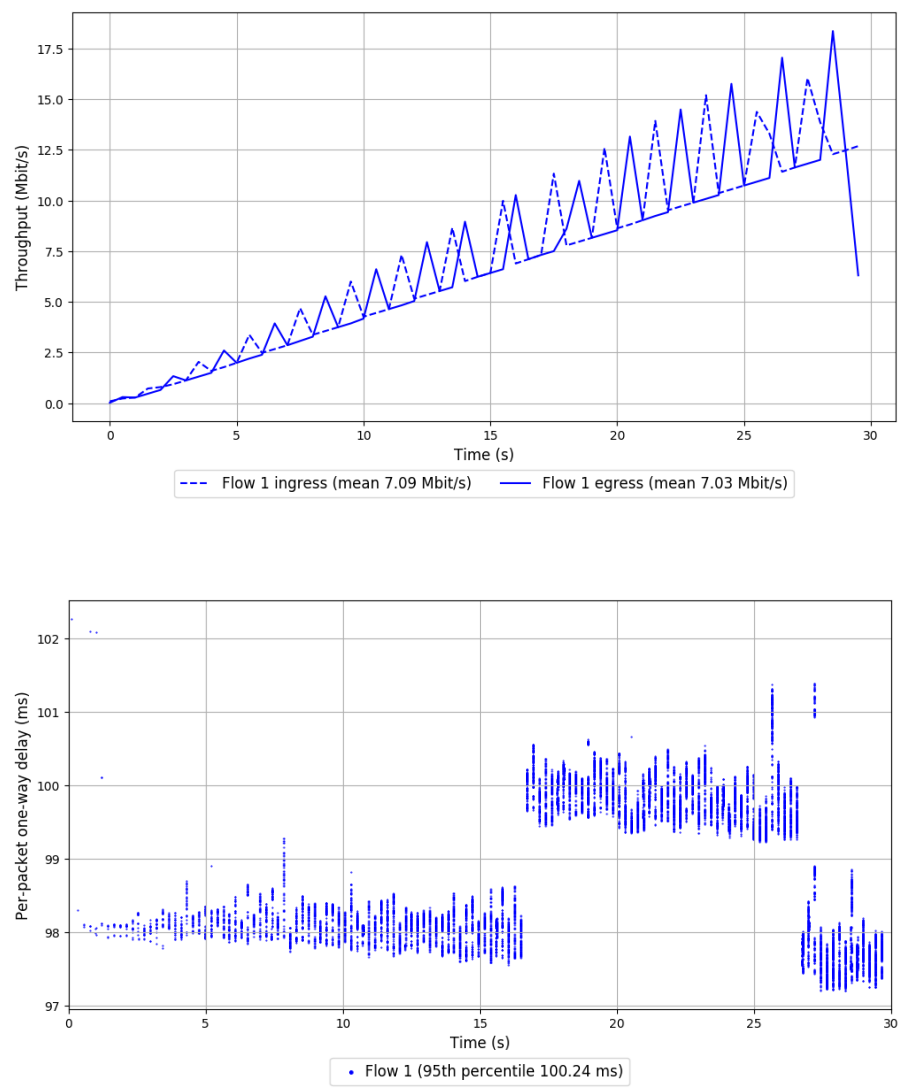


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-05 17:56:47
End at: 2018-03-05 17:57:17

# Below is generated by plot.py at 2018-03-05 23:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 100.239 ms
Loss rate: 1.51%
-- Flow 1:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 100.239 ms
Loss rate: 1.51%
```

Run 1: Report of LEDBAT — Data Link

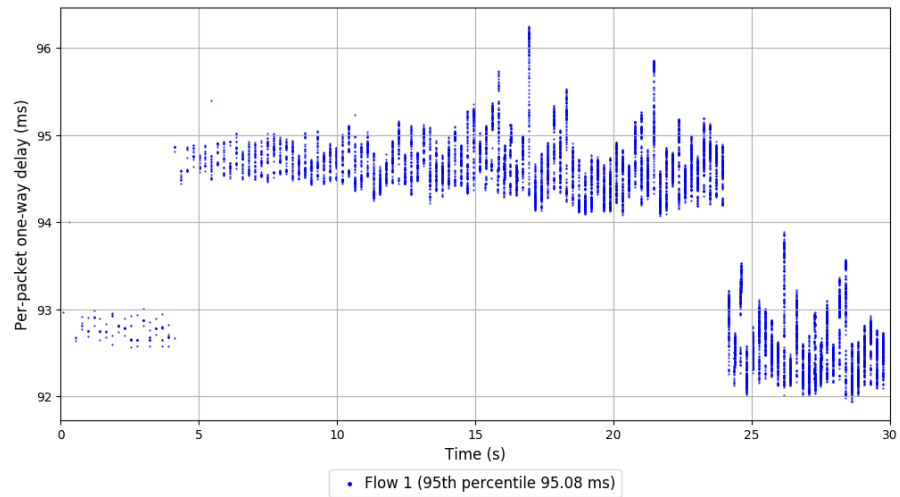
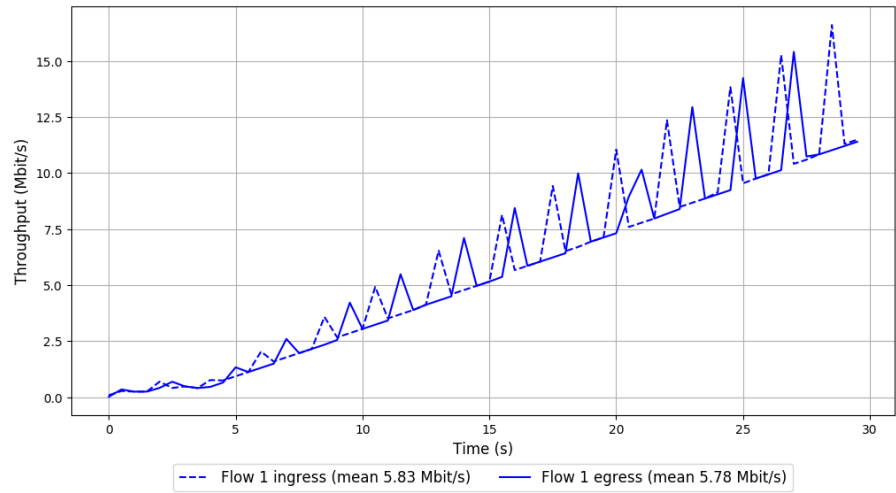


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-05 18:12:10
End at: 2018-03-05 18:12:40

# Below is generated by plot.py at 2018-03-05 23:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 95.080 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 95.080 ms
Loss rate: 1.66%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-05 18:27:55

End at: 2018-03-05 18:28:25

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 97.152 ms

Loss rate: 1.51%

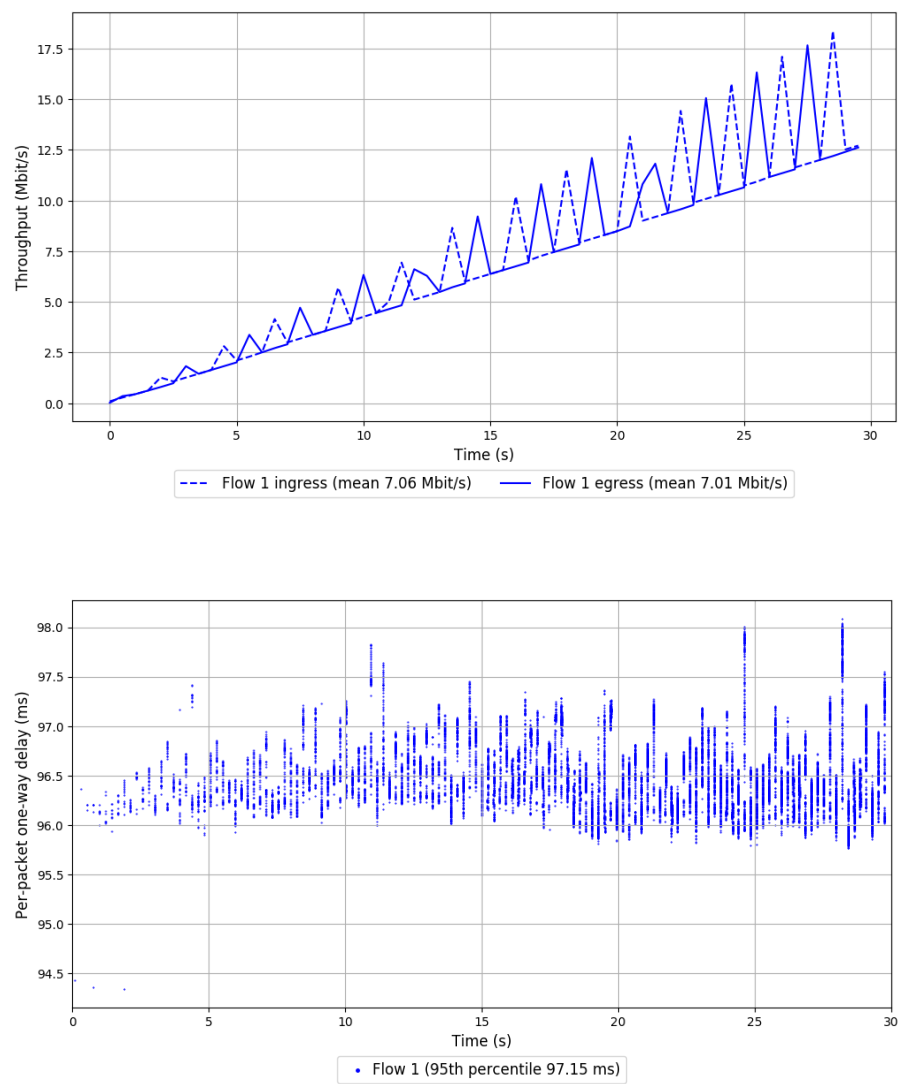
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 97.152 ms

Loss rate: 1.51%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-05 18:44:08

End at: 2018-03-05 18:44:38

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 86.239 ms

Loss rate: 1.51%

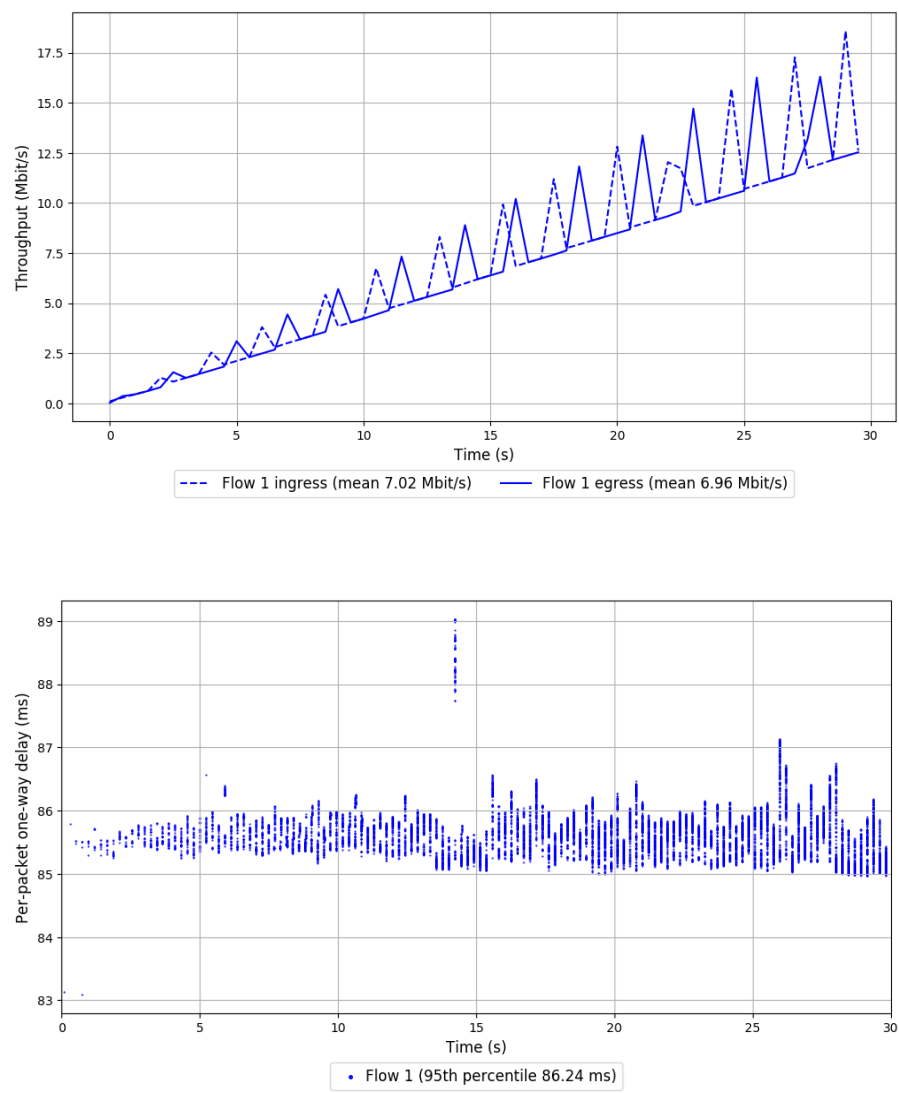
-- Flow 1:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 86.239 ms

Loss rate: 1.51%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-05 19:00:52

End at: 2018-03-05 19:01:22

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 99.752 ms

Loss rate: 1.50%

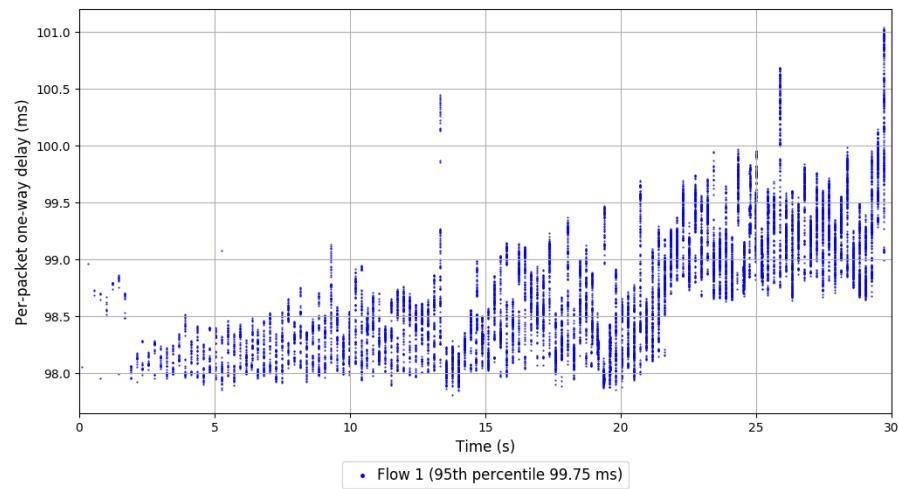
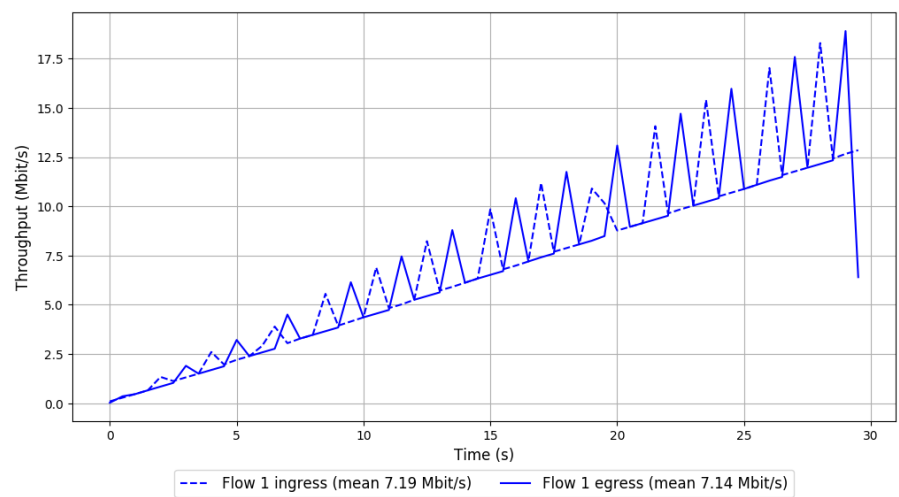
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 99.752 ms

Loss rate: 1.50%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-05 19:16:22

End at: 2018-03-05 19:16:52

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 98.629 ms

Loss rate: 1.50%

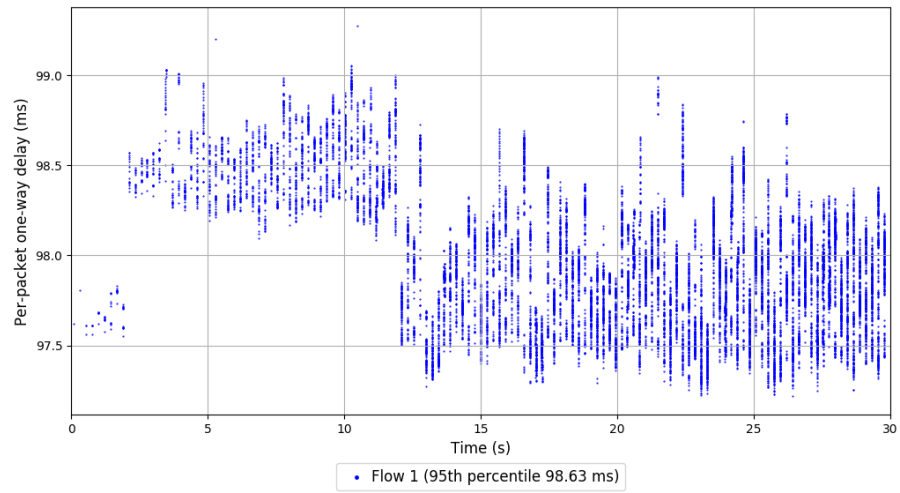
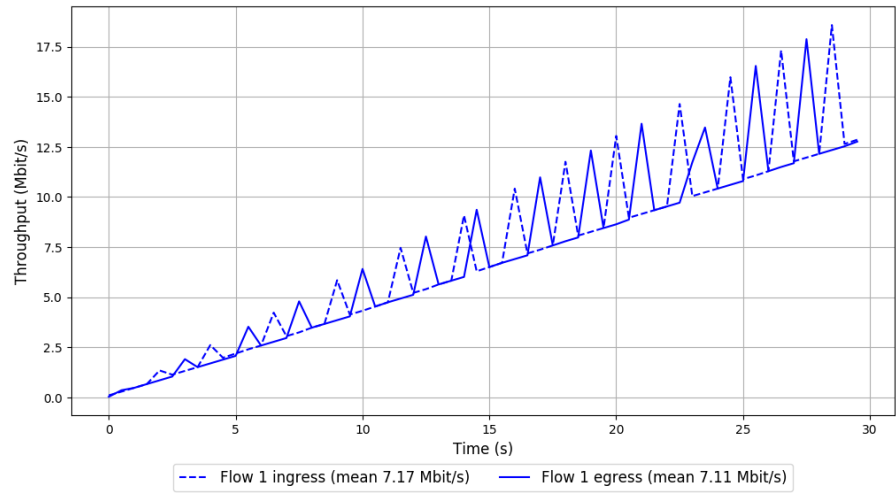
-- Flow 1:

Average throughput: 7.11 Mbit/s

95th percentile per-packet one-way delay: 98.629 ms

Loss rate: 1.50%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-05 19:31:41

End at: 2018-03-05 19:32:11

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 105.684 ms

Loss rate: 1.49%

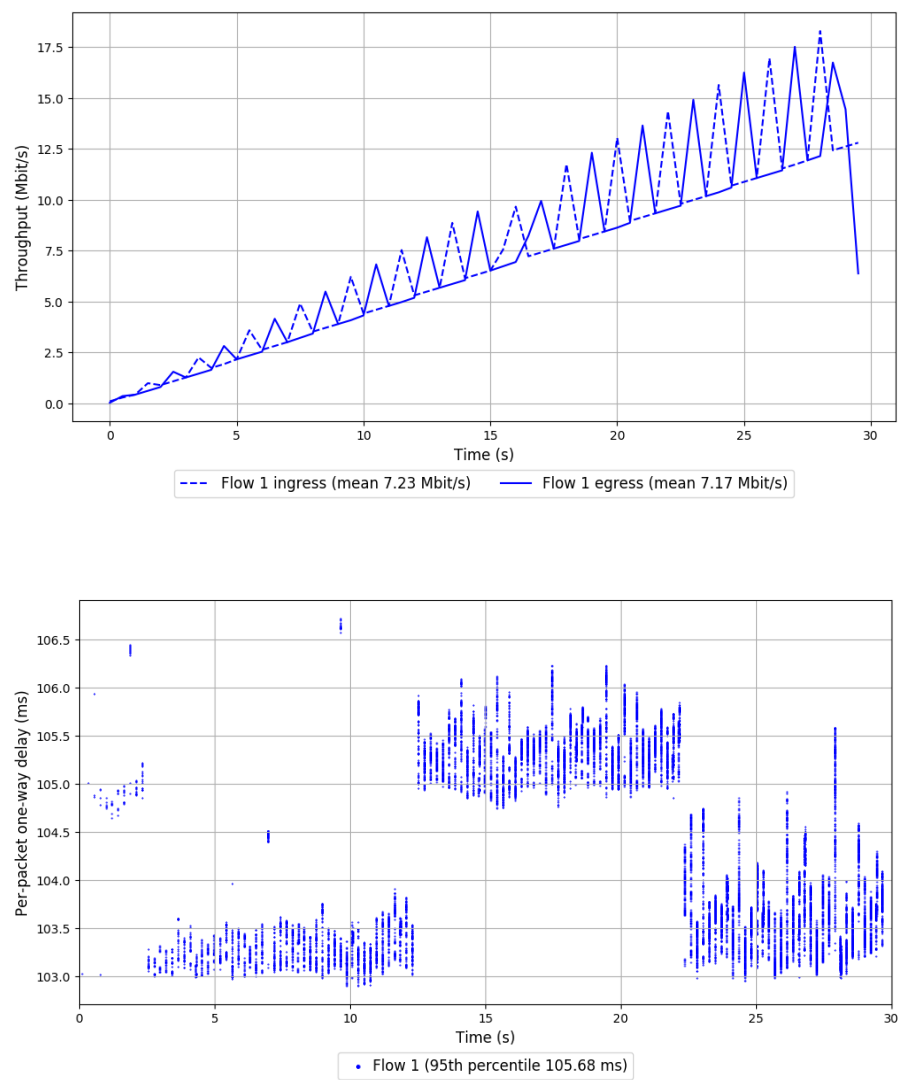
-- Flow 1:

Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 105.684 ms

Loss rate: 1.49%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-05 19:47:13

End at: 2018-03-05 19:47:43

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.98 Mbit/s

95th percentile per-packet one-way delay: 107.090 ms

Loss rate: 1.51%

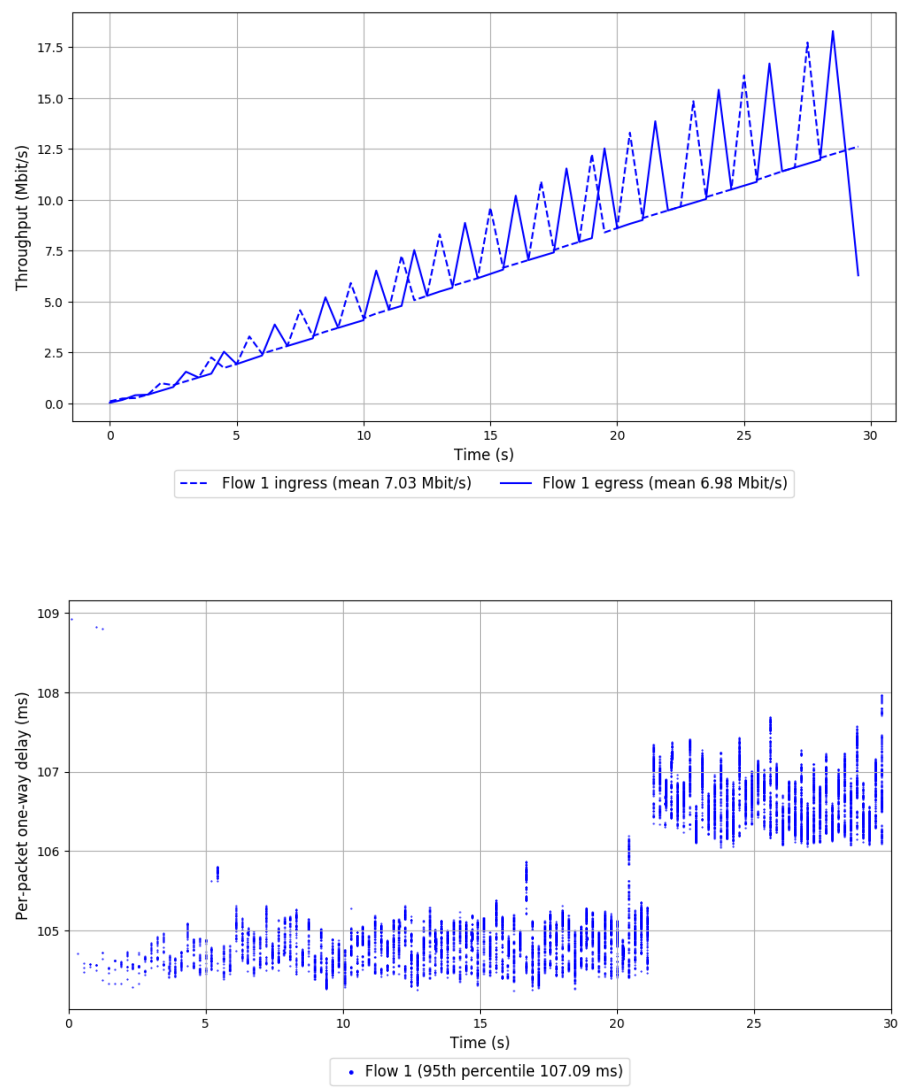
-- Flow 1:

Average throughput: 6.98 Mbit/s

95th percentile per-packet one-way delay: 107.090 ms

Loss rate: 1.51%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-05 20:02:28

End at: 2018-03-05 20:02:58

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 106.623 ms

Loss rate: 1.50%

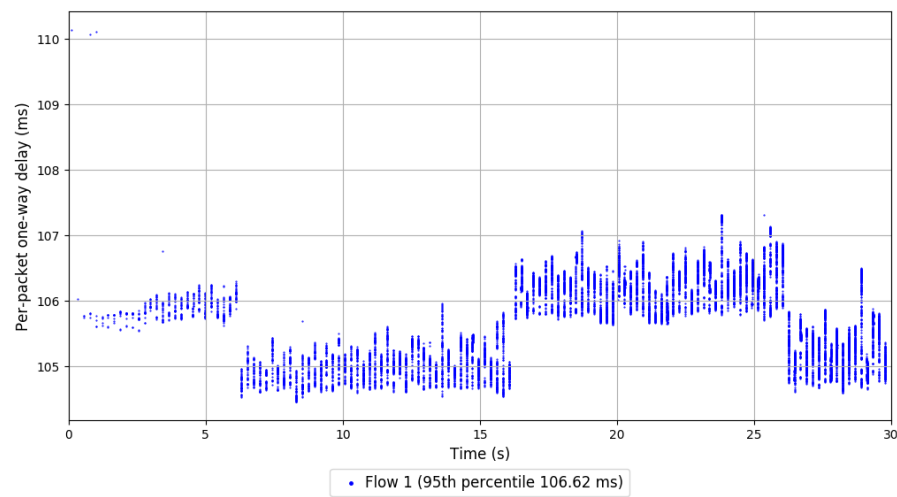
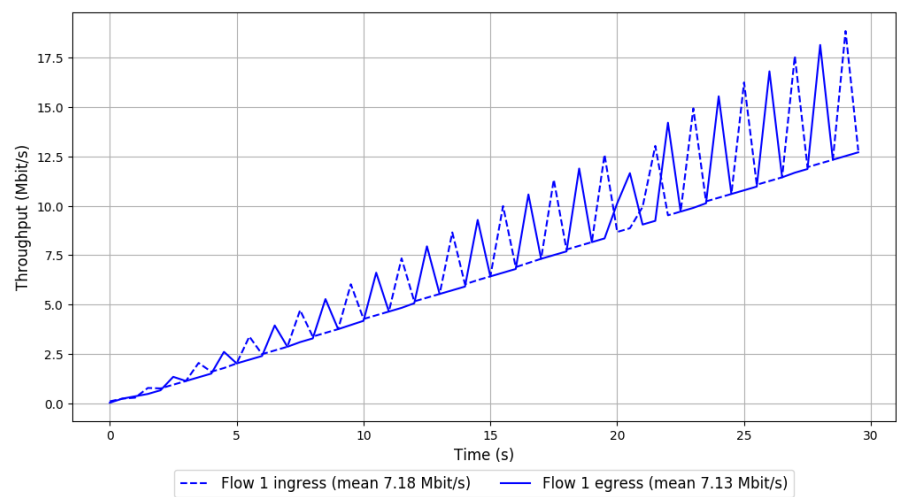
-- Flow 1:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 106.623 ms

Loss rate: 1.50%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

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

End at: 2018-03-05 20:18:35

Below is generated by plot.py at 2018-03-05 23:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 111.608 ms

Loss rate: 1.66%

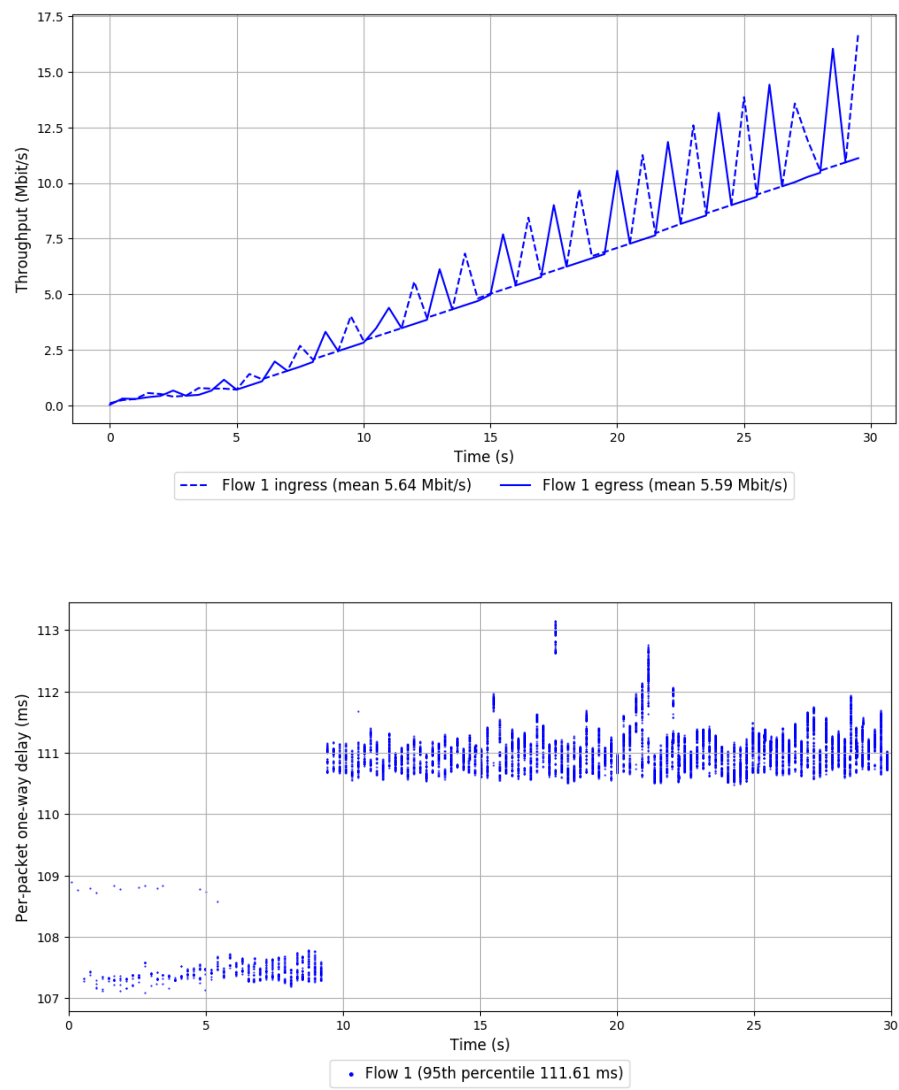
-- Flow 1:

Average throughput: 5.59 Mbit/s

95th percentile per-packet one-way delay: 111.608 ms

Loss rate: 1.66%

Run 10: Report of LEDBAT — Data Link

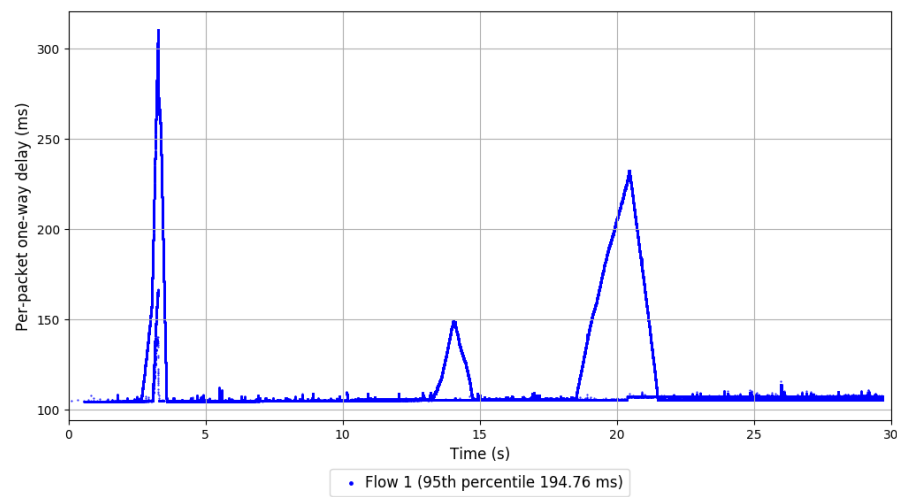
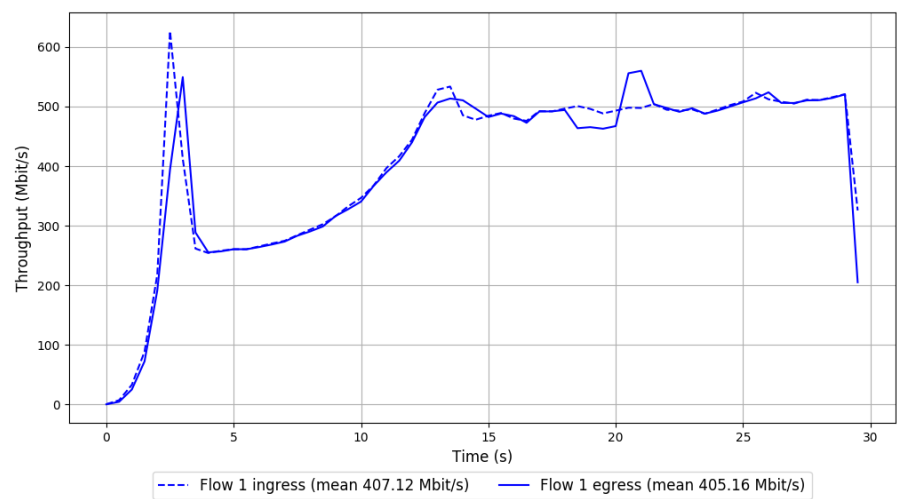


```
Run 1: Statistics of PCC

Start at: 2018-03-05 17:45:03
End at: 2018-03-05 17:45:33

# Below is generated by plot.py at 2018-03-05 23:12:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 405.16 Mbit/s
95th percentile per-packet one-way delay: 194.765 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 405.16 Mbit/s
95th percentile per-packet one-way delay: 194.765 ms
Loss rate: 1.23%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-05 18:00:55

End at: 2018-03-05 18:01:25

Below is generated by plot.py at 2018-03-05 23:12:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.34 Mbit/s

95th percentile per-packet one-way delay: 210.030 ms

Loss rate: 1.01%

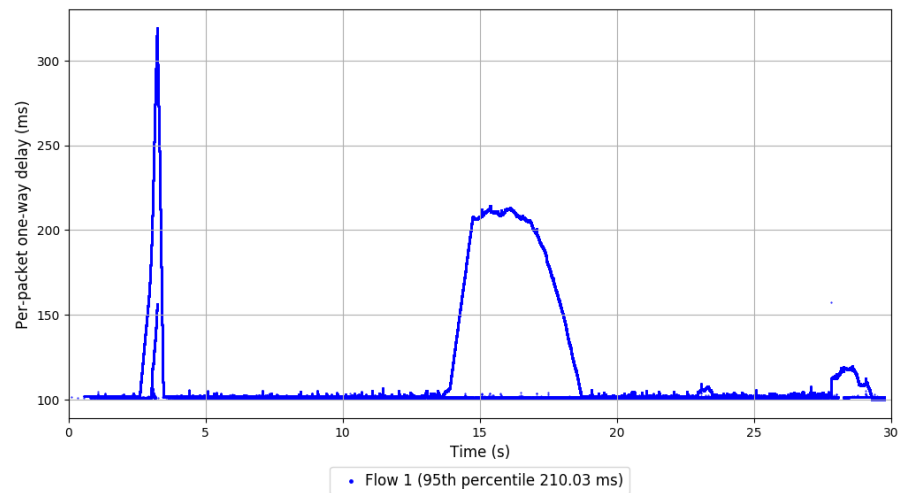
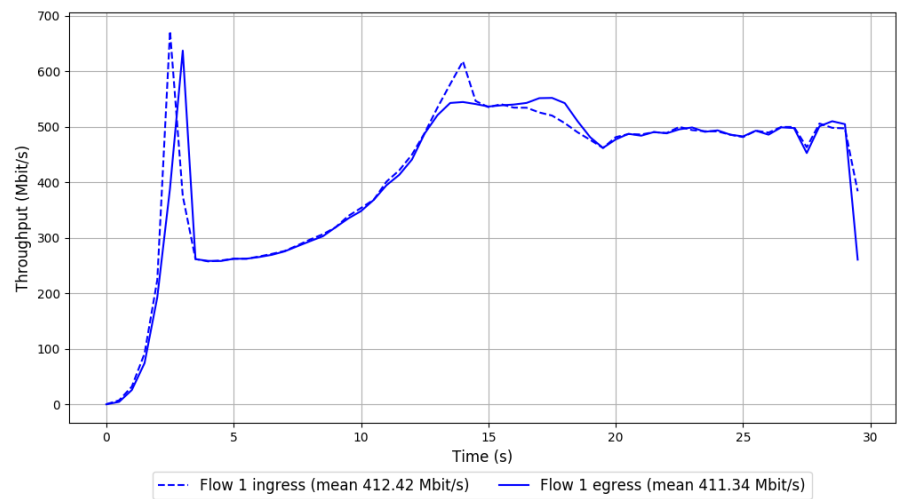
-- Flow 1:

Average throughput: 411.34 Mbit/s

95th percentile per-packet one-way delay: 210.030 ms

Loss rate: 1.01%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-05 18:16:24

End at: 2018-03-05 18:16:54

Below is generated by plot.py at 2018-03-05 23:12:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.83 Mbit/s

95th percentile per-packet one-way delay: 159.680 ms

Loss rate: 1.03%

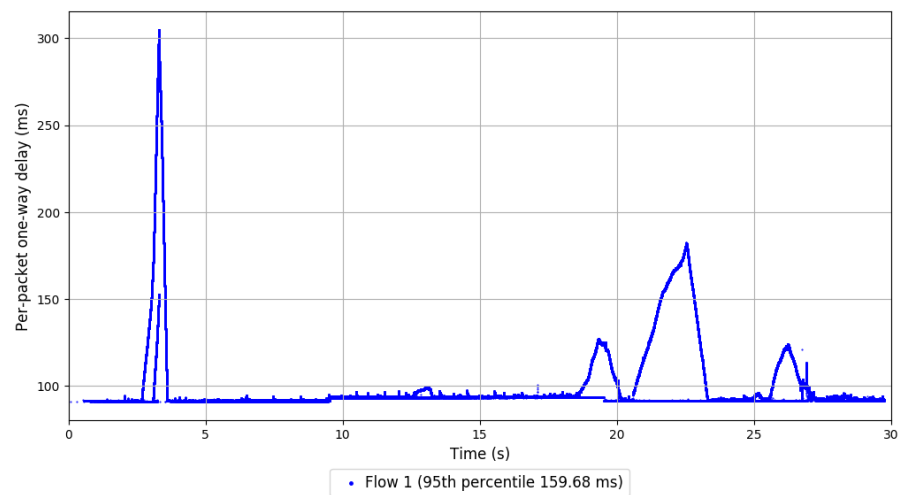
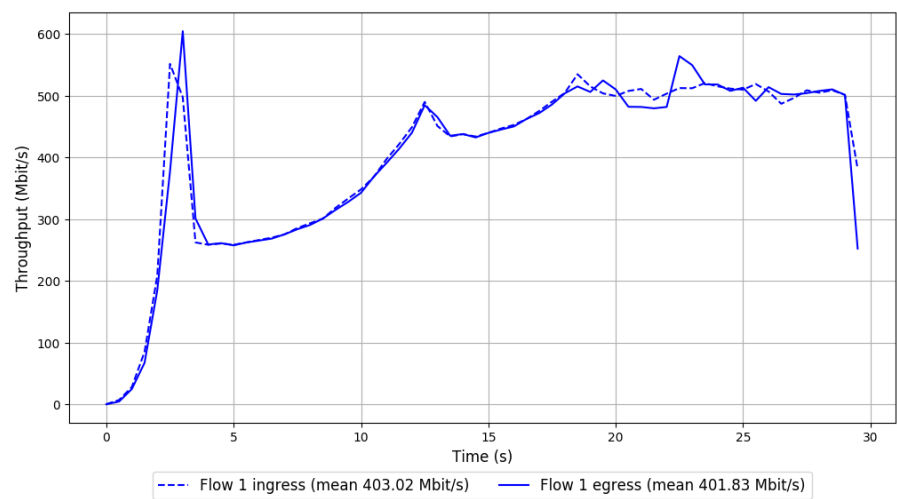
-- Flow 1:

Average throughput: 401.83 Mbit/s

95th percentile per-packet one-way delay: 159.680 ms

Loss rate: 1.03%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-05 18:32:21

End at: 2018-03-05 18:32:51

Below is generated by plot.py at 2018-03-05 23:12:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.23 Mbit/s

95th percentile per-packet one-way delay: 245.513 ms

Loss rate: 3.10%

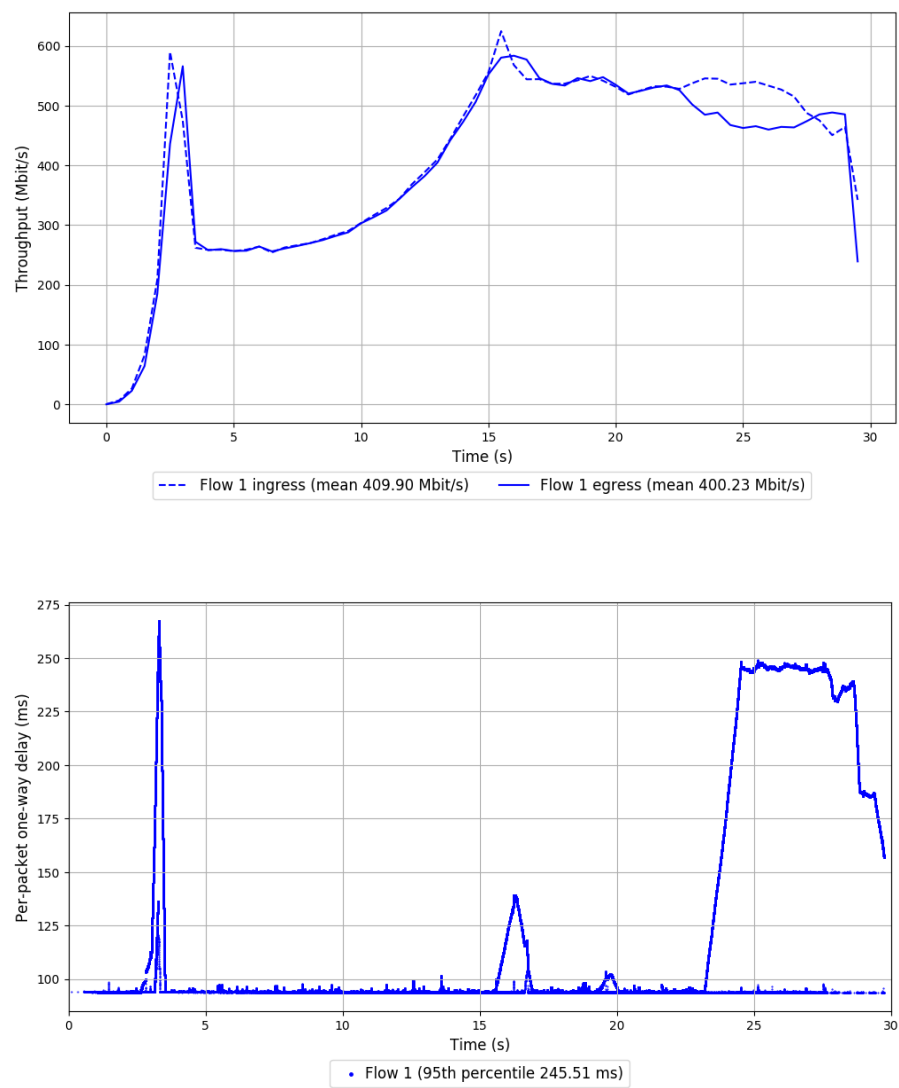
-- Flow 1:

Average throughput: 400.23 Mbit/s

95th percentile per-packet one-way delay: 245.513 ms

Loss rate: 3.10%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-05 18:48:52

End at: 2018-03-05 18:49:22

Below is generated by plot.py at 2018-03-05 23:12:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.89 Mbit/s

95th percentile per-packet one-way delay: 87.641 ms

Loss rate: 1.39%

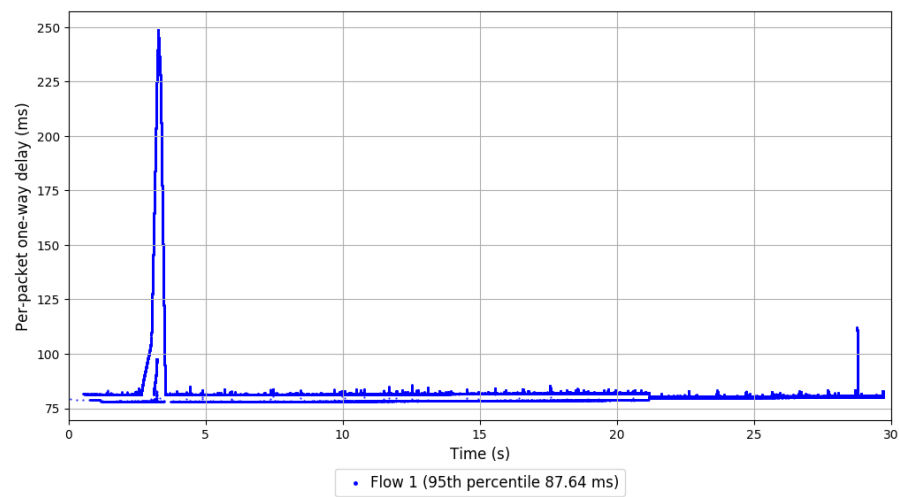
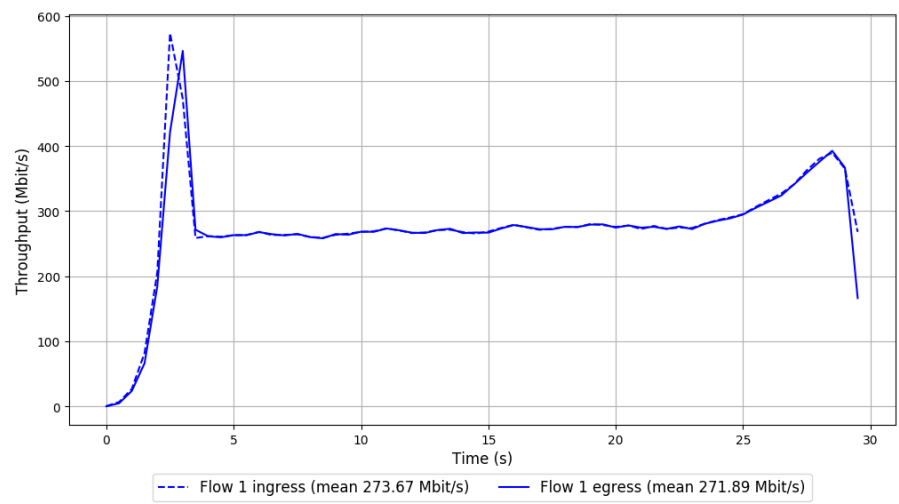
-- Flow 1:

Average throughput: 271.89 Mbit/s

95th percentile per-packet one-way delay: 87.641 ms

Loss rate: 1.39%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-05 19:05:00

End at: 2018-03-05 19:05:30

Below is generated by plot.py at 2018-03-05 23:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 417.35 Mbit/s

95th percentile per-packet one-way delay: 199.899 ms

Loss rate: 1.38%

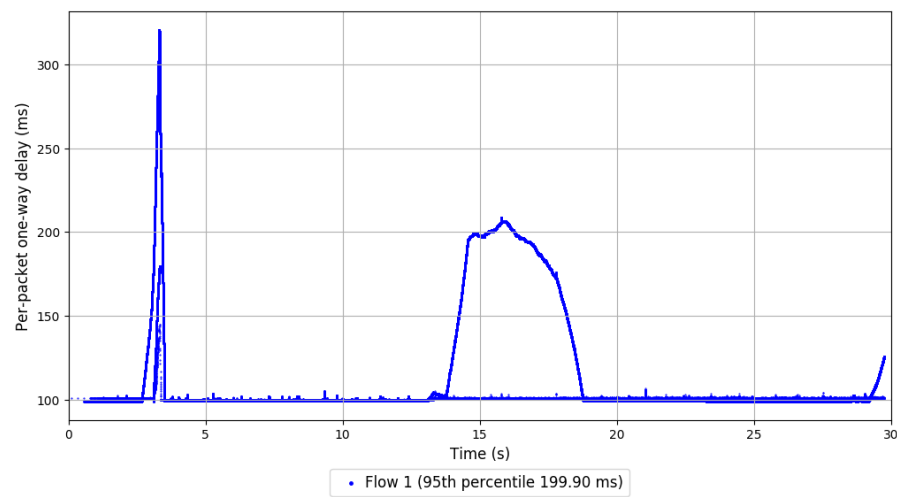
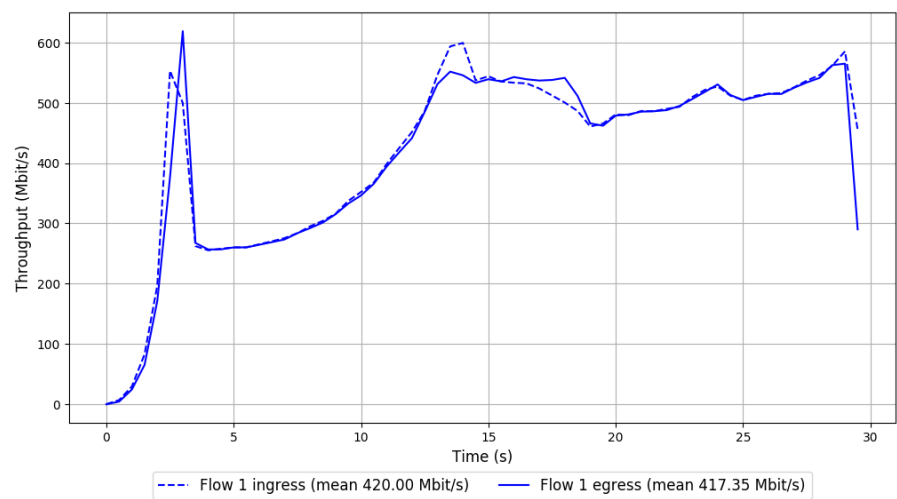
-- Flow 1:

Average throughput: 417.35 Mbit/s

95th percentile per-packet one-way delay: 199.899 ms

Loss rate: 1.38%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-05 19:20:36

End at: 2018-03-05 19:21:06

Below is generated by plot.py at 2018-03-05 23:13:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 397.96 Mbit/s

95th percentile per-packet one-way delay: 250.836 ms

Loss rate: 3.76%

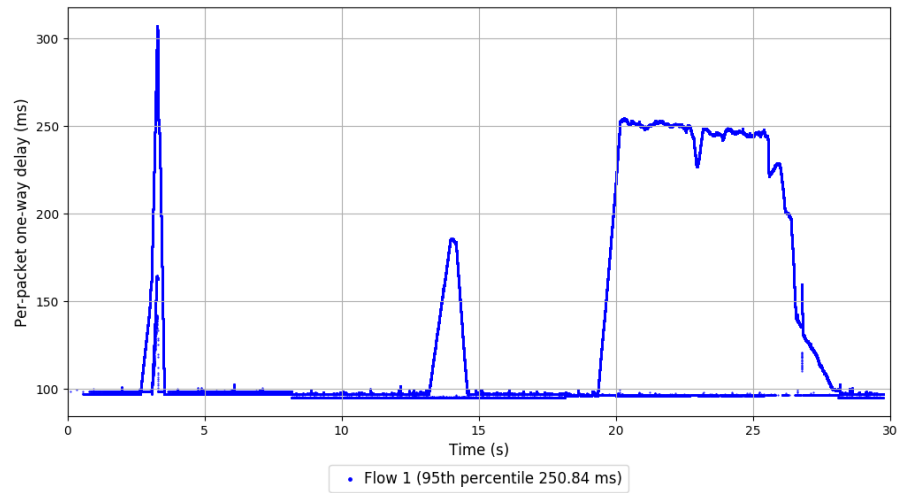
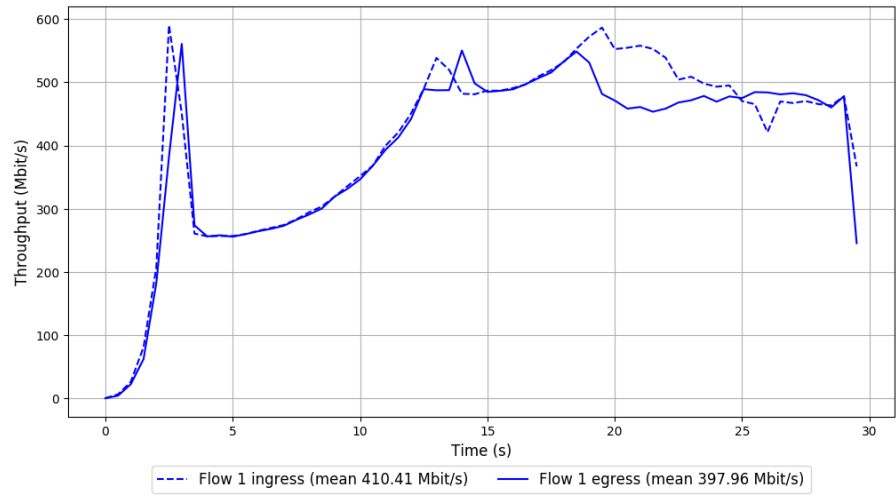
-- Flow 1:

Average throughput: 397.96 Mbit/s

95th percentile per-packet one-way delay: 250.836 ms

Loss rate: 3.76%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-05 19:35:55

End at: 2018-03-05 19:36:25

Below is generated by plot.py at 2018-03-05 23:13:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.92 Mbit/s

95th percentile per-packet one-way delay: 128.275 ms

Loss rate: 1.14%

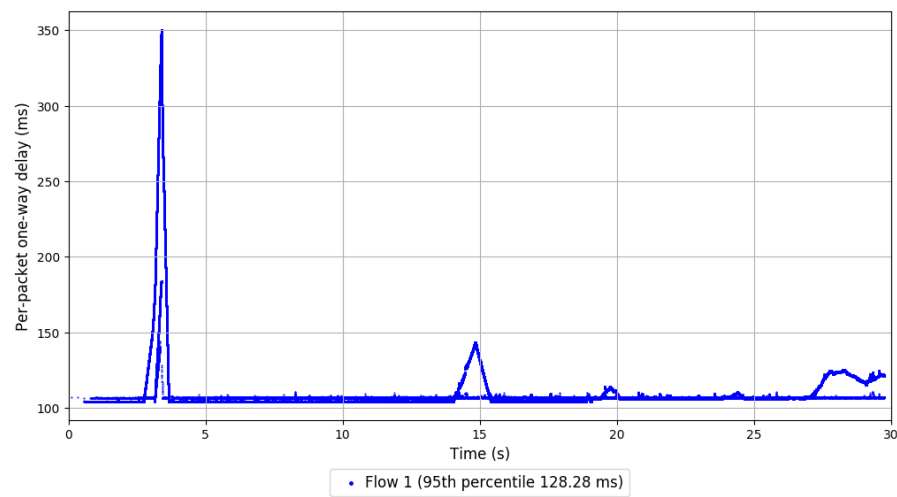
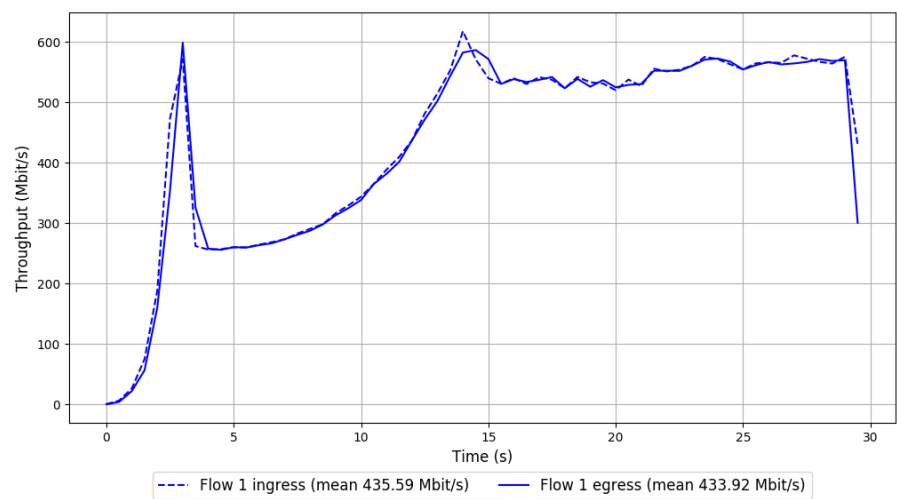
-- Flow 1:

Average throughput: 433.92 Mbit/s

95th percentile per-packet one-way delay: 128.275 ms

Loss rate: 1.14%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-05 19:51:26

End at: 2018-03-05 19:51:56

Below is generated by plot.py at 2018-03-05 23:17:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.12 Mbit/s

95th percentile per-packet one-way delay: 258.624 ms

Loss rate: 3.31%

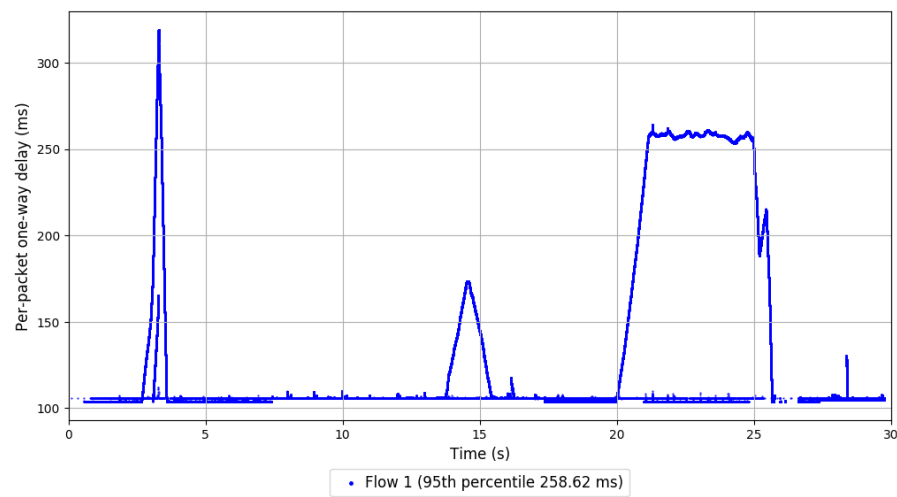
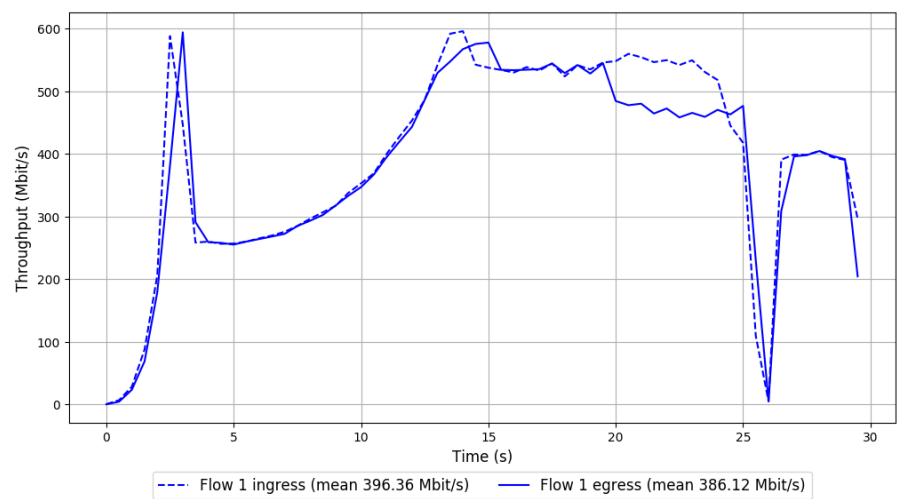
-- Flow 1:

Average throughput: 386.12 Mbit/s

95th percentile per-packet one-way delay: 258.624 ms

Loss rate: 3.31%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-05 20:06:42

End at: 2018-03-05 20:07:12

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.53 Mbit/s

95th percentile per-packet one-way delay: 238.162 ms

Loss rate: 1.11%

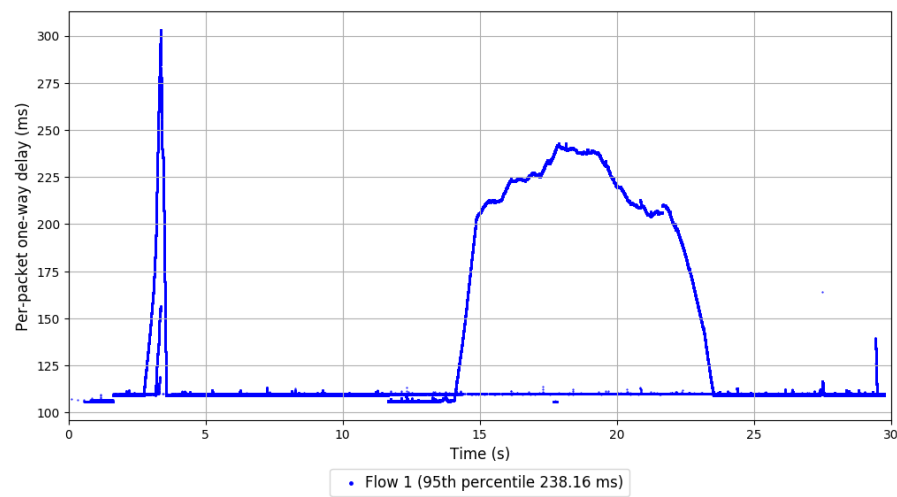
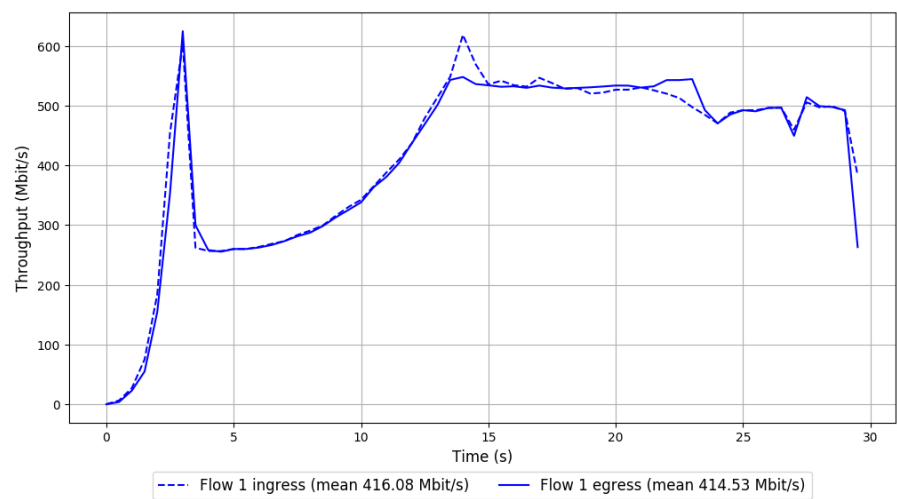
-- Flow 1:

Average throughput: 414.53 Mbit/s

95th percentile per-packet one-way delay: 238.162 ms

Loss rate: 1.11%

Run 10: Report of PCC — Data Link

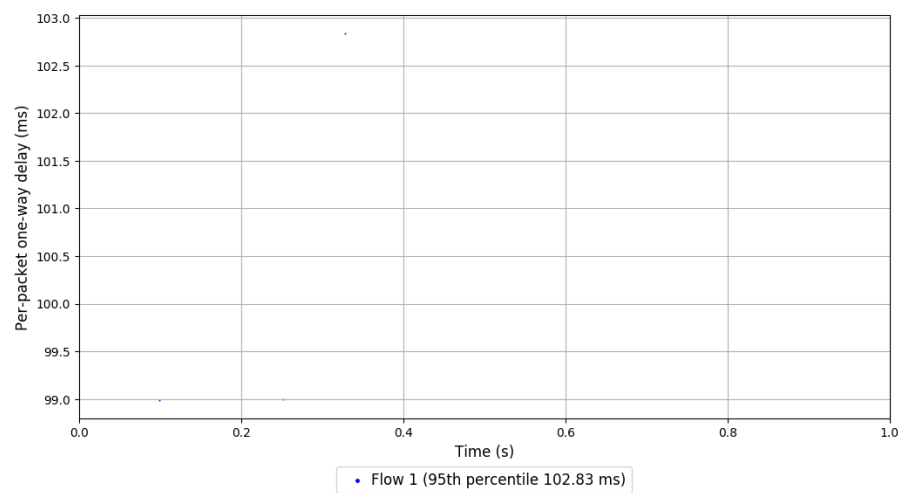
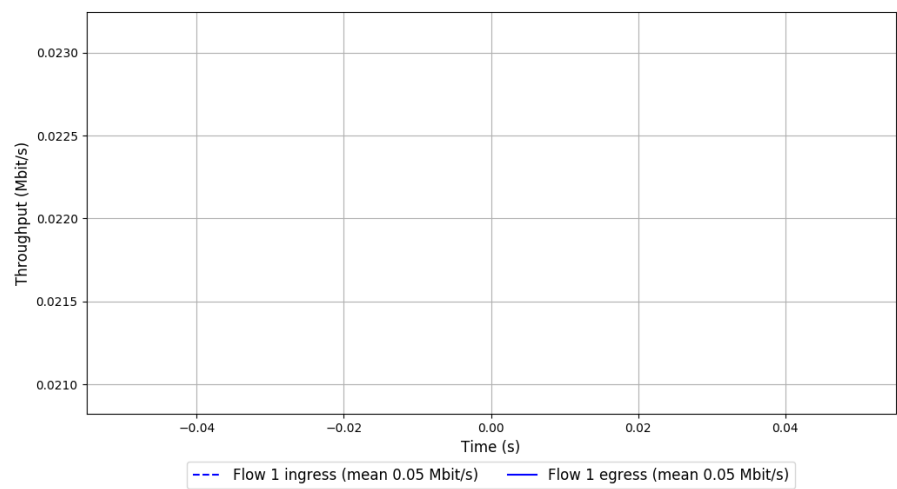


Run 1: Statistics of QUIC Cubic

Start at: 2018-03-05 17:57:29

End at: 2018-03-05 17:57:59

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-05 18:12:51

End at: 2018-03-05 18:13:21

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 94.176 ms

Loss rate: 0.97%

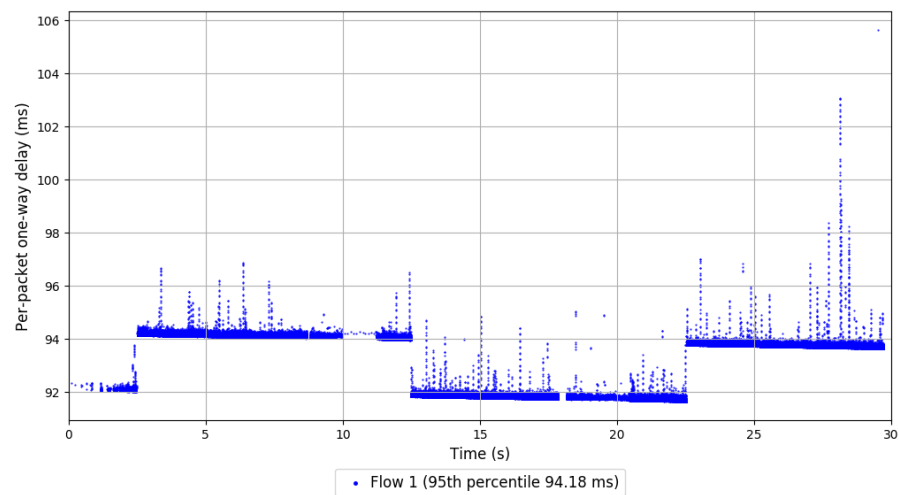
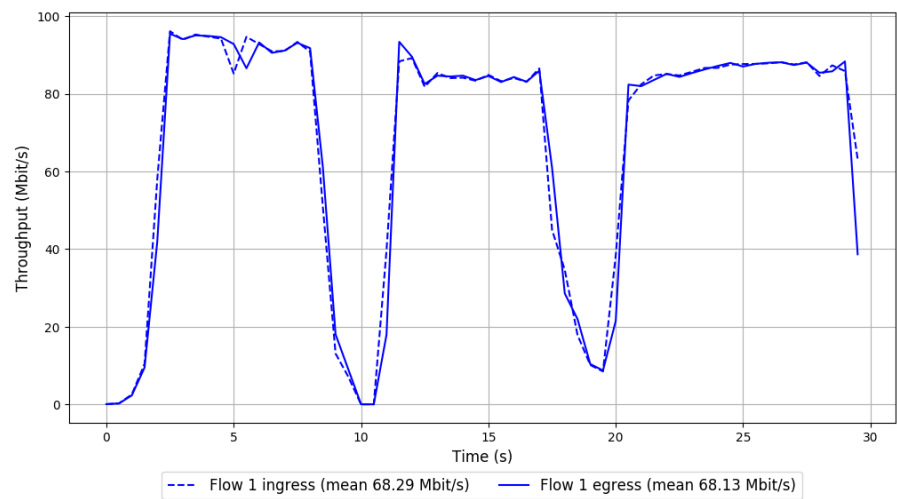
-- Flow 1:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 94.176 ms

Loss rate: 0.97%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-05 18:28:37

End at: 2018-03-05 18:29:07

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 96.029 ms

Loss rate: 0.98%

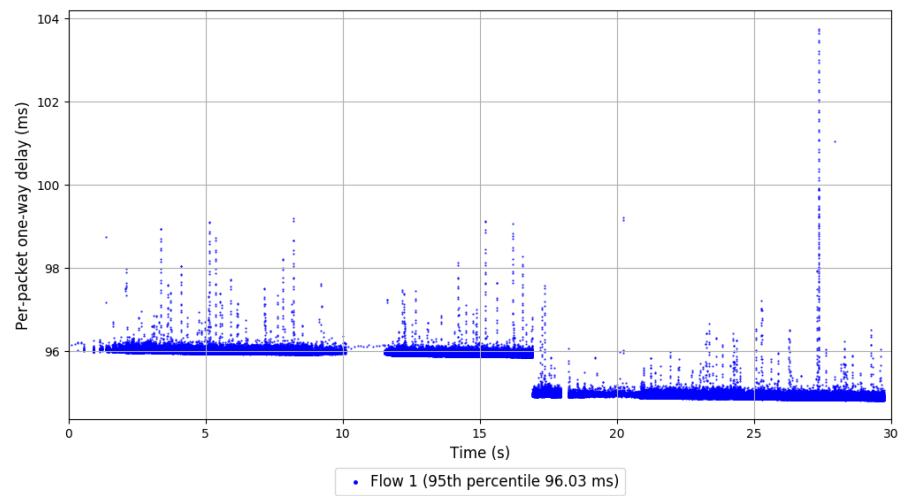
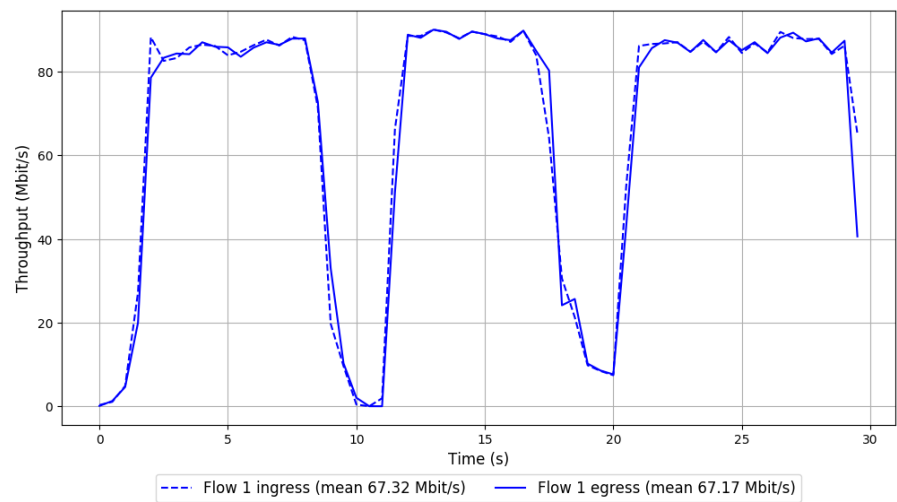
-- Flow 1:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 96.029 ms

Loss rate: 0.98%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-05 18:44:50

End at: 2018-03-05 18:45:20

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.85 Mbit/s

95th percentile per-packet one-way delay: 82.841 ms

Loss rate: 0.96%

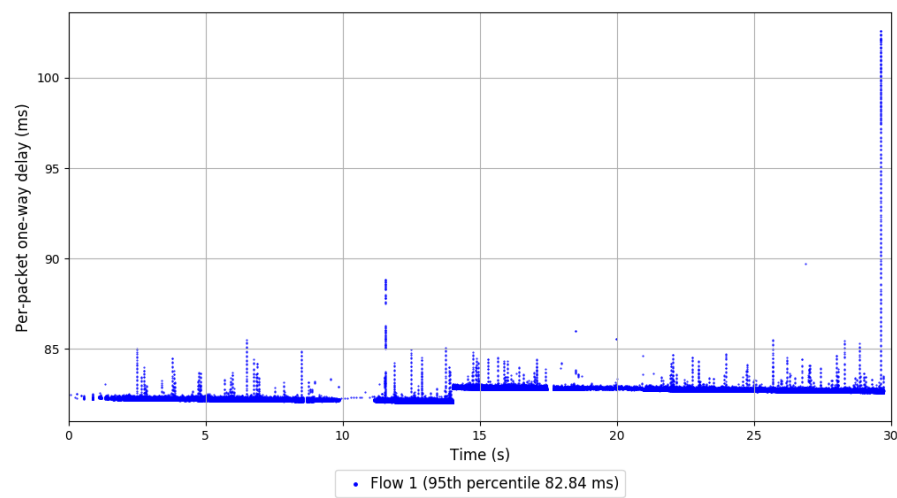
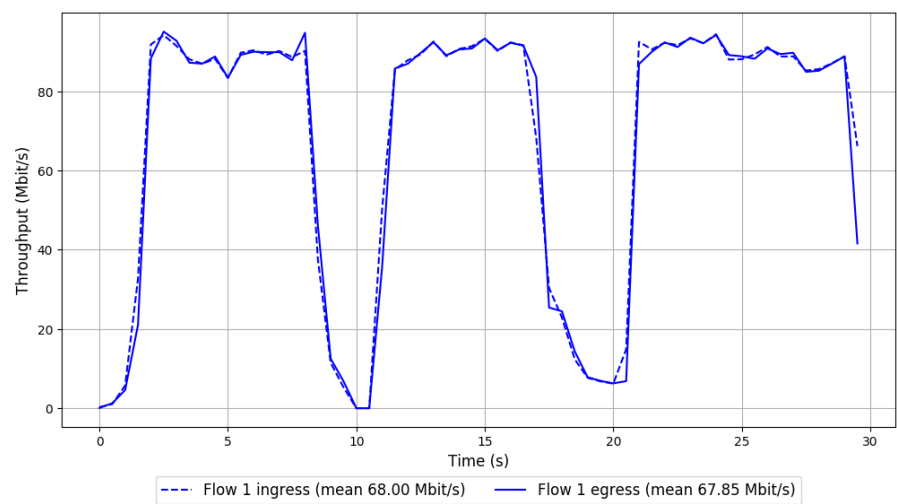
-- Flow 1:

Average throughput: 67.85 Mbit/s

95th percentile per-packet one-way delay: 82.841 ms

Loss rate: 0.96%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-05 19:01:34

End at: 2018-03-05 19:02:04

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.55 Mbit/s

95th percentile per-packet one-way delay: 99.306 ms

Loss rate: 0.98%

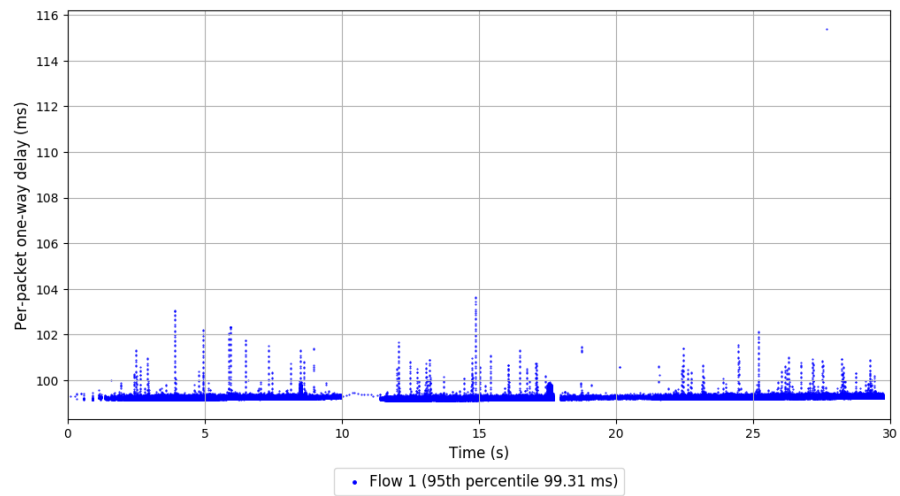
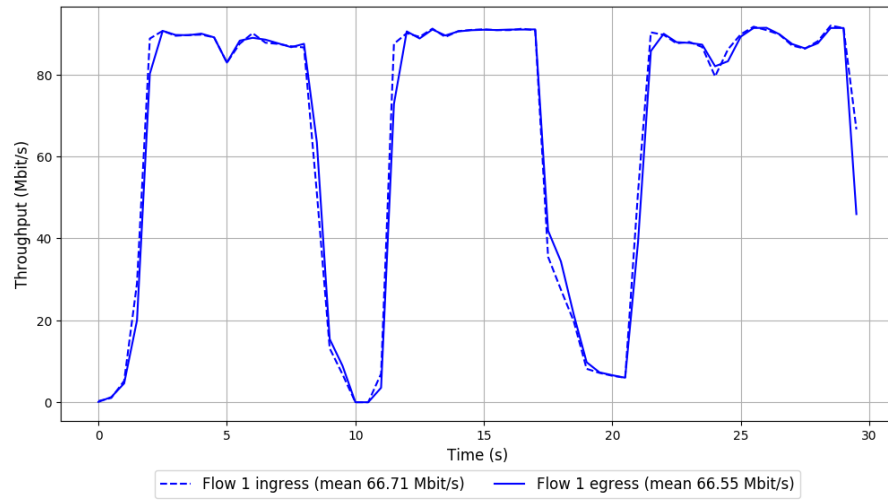
-- Flow 1:

Average throughput: 66.55 Mbit/s

95th percentile per-packet one-way delay: 99.306 ms

Loss rate: 0.98%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-05 19:17:03

End at: 2018-03-05 19:17:33

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 99.173 ms

Loss rate: 1.04%

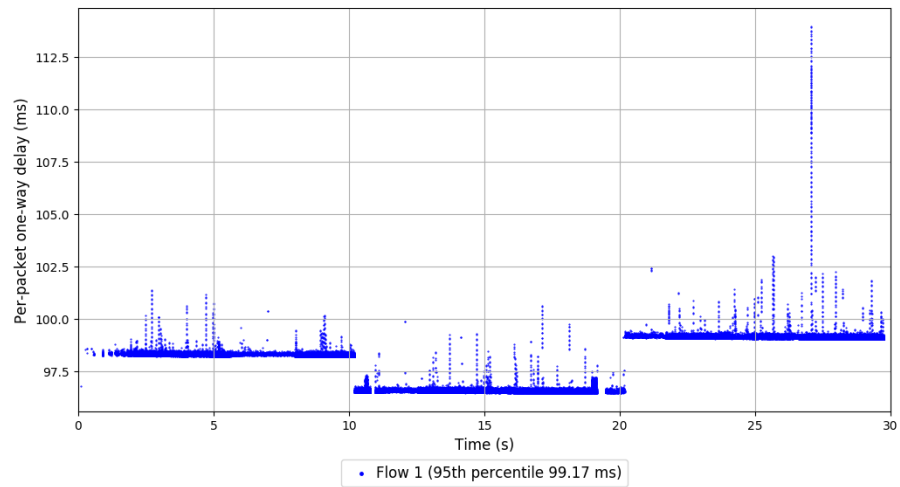
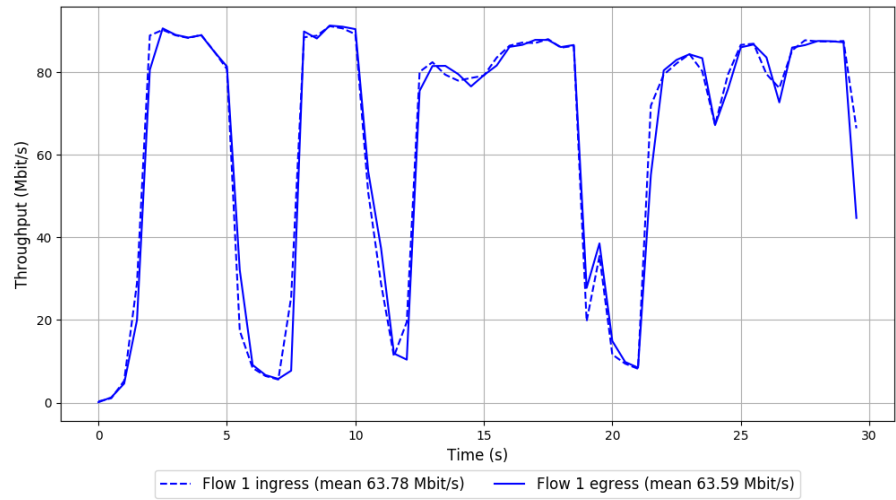
-- Flow 1:

Average throughput: 63.59 Mbit/s

95th percentile per-packet one-way delay: 99.173 ms

Loss rate: 1.04%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-05 19:32:23

End at: 2018-03-05 19:32:53

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 105.162 ms

Loss rate: 0.94%

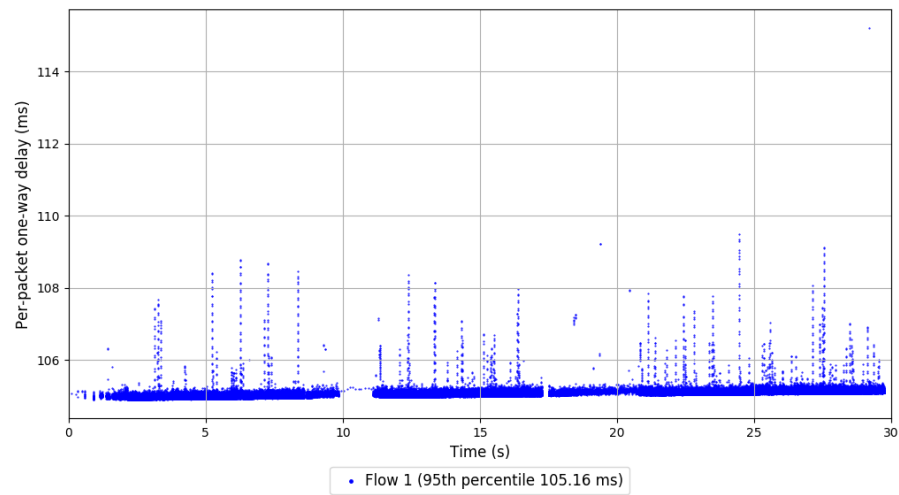
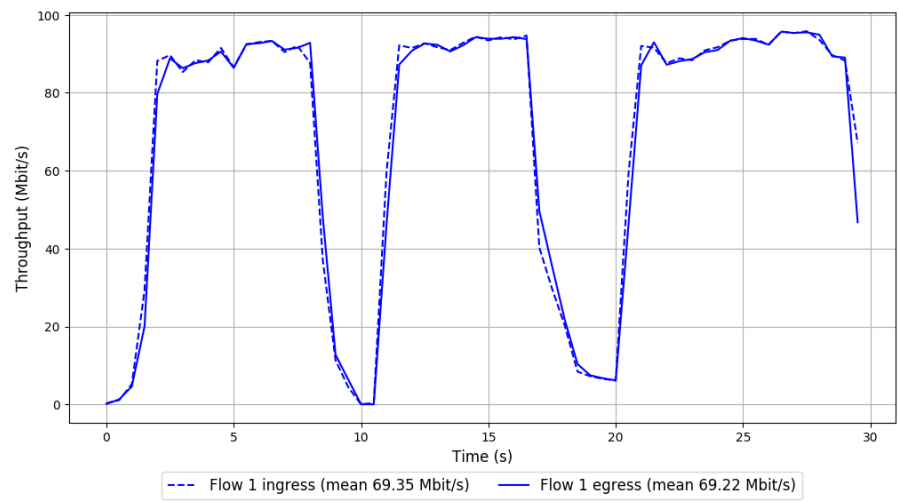
-- Flow 1:

Average throughput: 69.22 Mbit/s

95th percentile per-packet one-way delay: 105.162 ms

Loss rate: 0.94%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-05 19:47:54

End at: 2018-03-05 19:48:24

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 106.090 ms

Loss rate: 1.02%

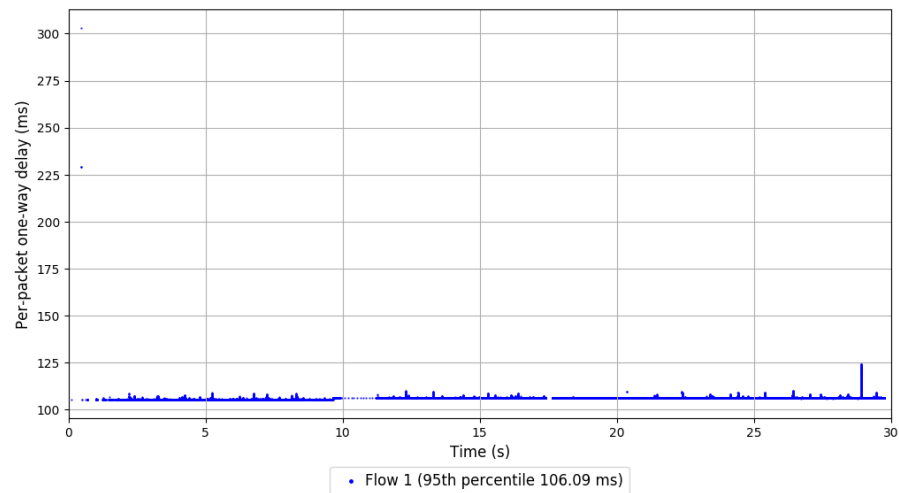
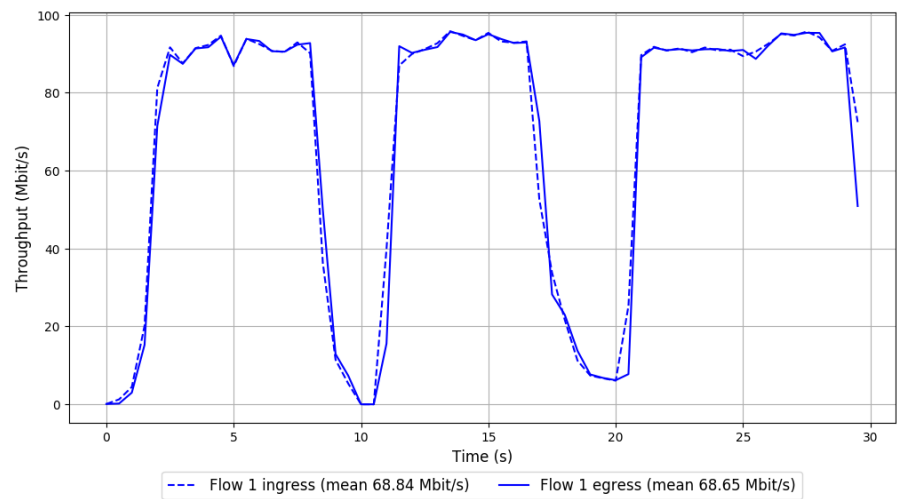
-- Flow 1:

Average throughput: 68.65 Mbit/s

95th percentile per-packet one-way delay: 106.090 ms

Loss rate: 1.02%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-05 20:03:09

End at: 2018-03-05 20:03:39

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.65 Mbit/s

95th percentile per-packet one-way delay: 109.621 ms

Loss rate: 1.00%

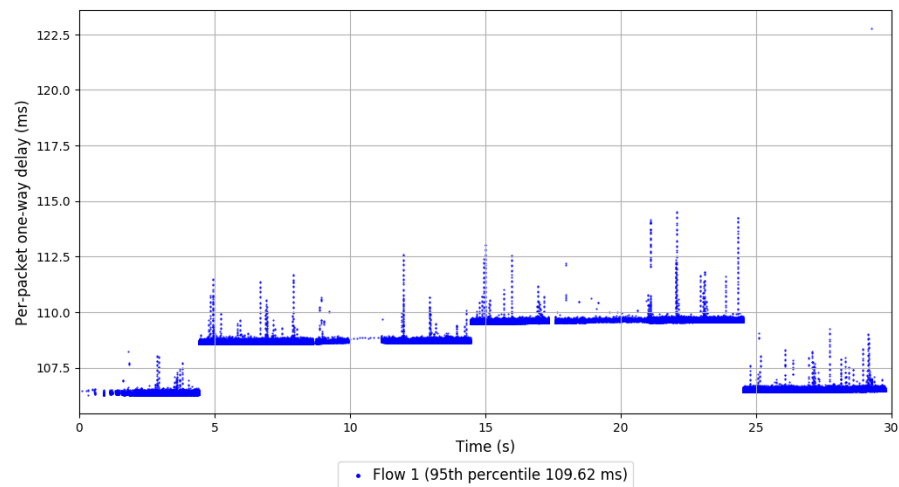
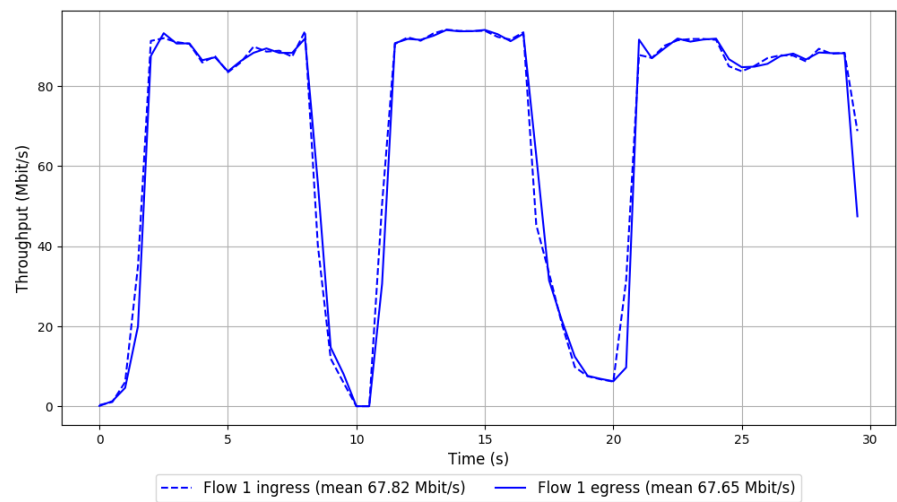
-- Flow 1:

Average throughput: 67.65 Mbit/s

95th percentile per-packet one-way delay: 109.621 ms

Loss rate: 1.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-05 20:18:46

End at: 2018-03-05 20:19:16

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.10 Mbit/s

95th percentile per-packet one-way delay: 109.322 ms

Loss rate: 1.01%

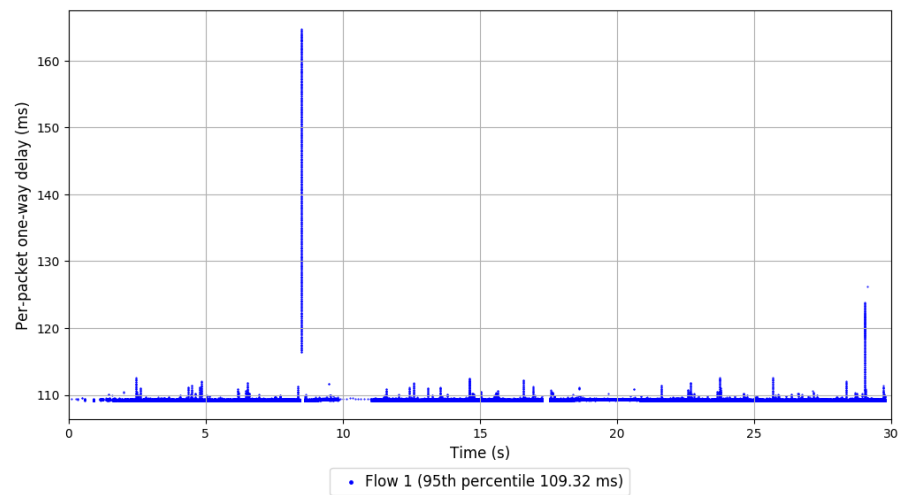
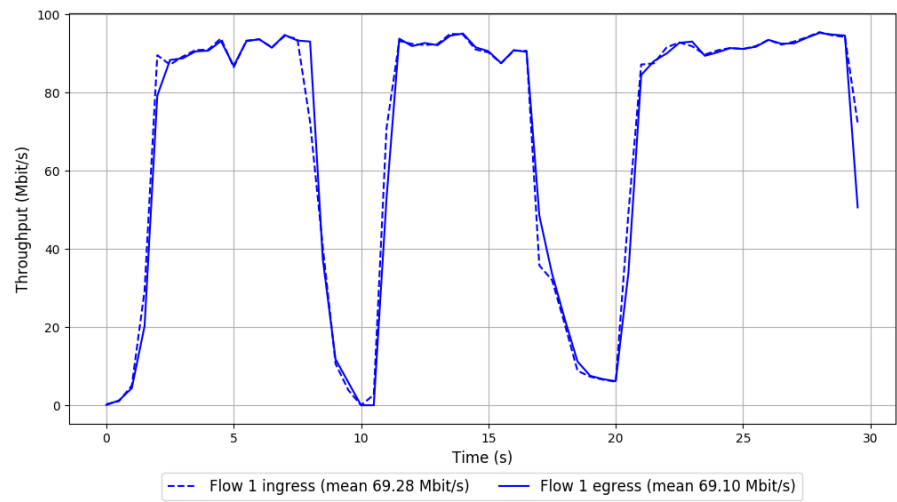
-- Flow 1:

Average throughput: 69.10 Mbit/s

95th percentile per-packet one-way delay: 109.322 ms

Loss rate: 1.01%

Run 10: Report of QUIC Cubic — Data Link

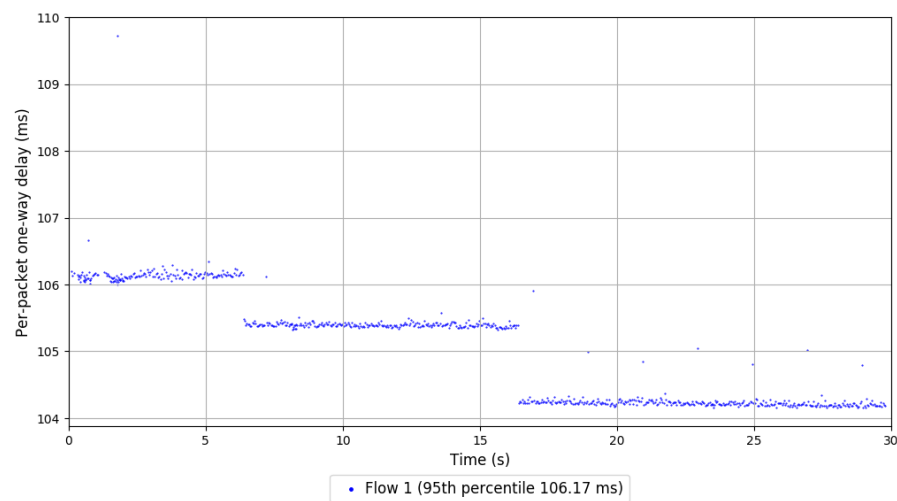
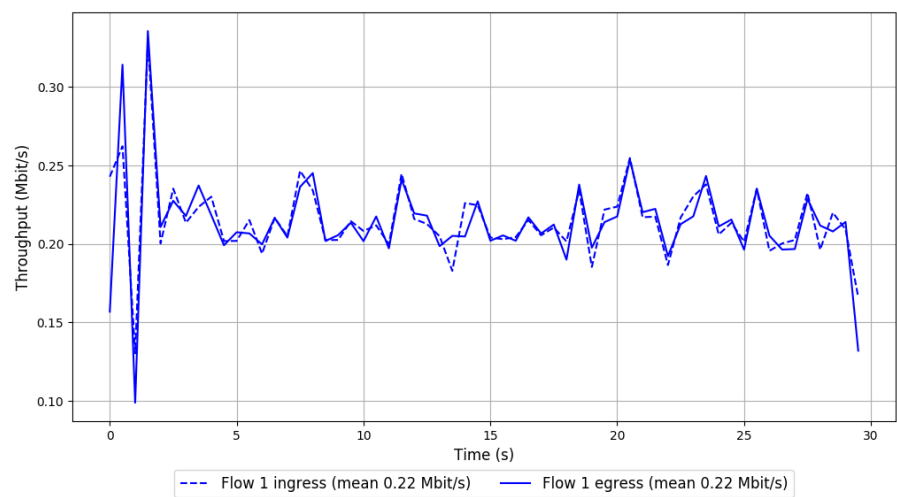


```
Run 1: Statistics of SCReAM

Start at: 2018-03-05 17:51:27
End at: 2018-03-05 17:51:57

# Below is generated by plot.py at 2018-03-05 23:19:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.167 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 106.167 ms
Loss rate: 0.65%
```

Run 1: Report of SReAM — Data Link

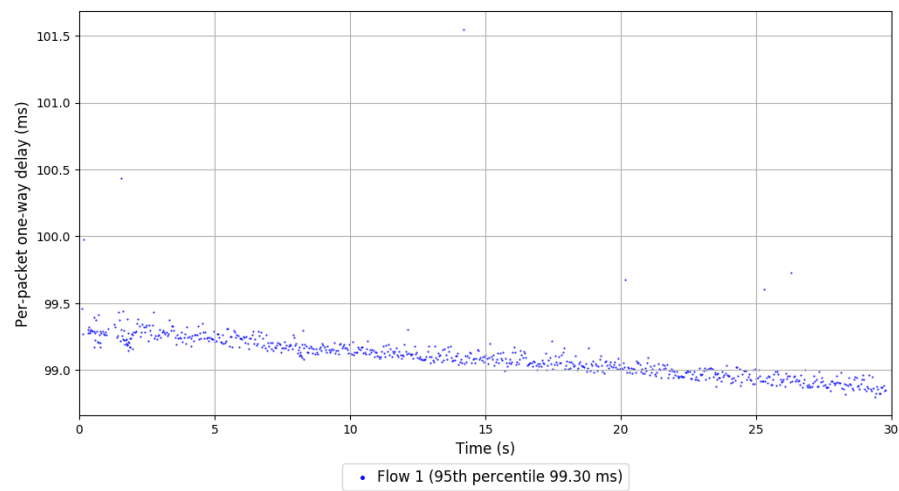
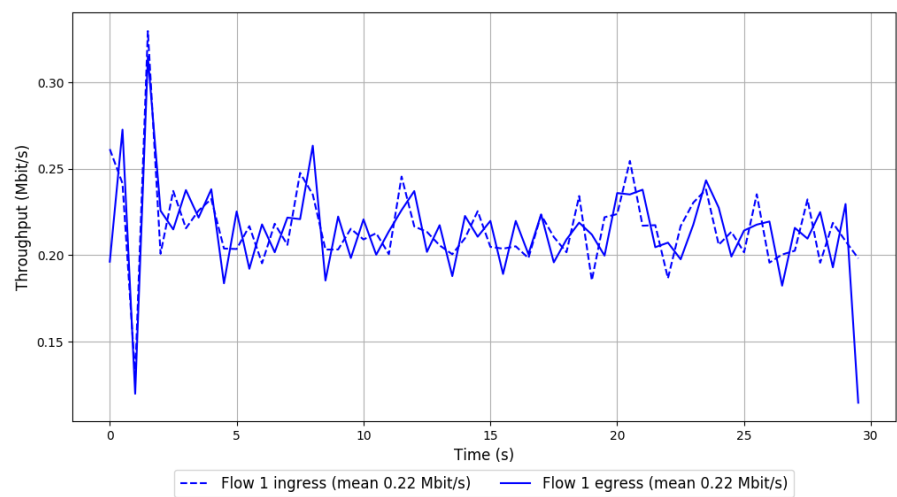


```
Run 2: Statistics of SCReAM

Start at: 2018-03-05 18:07:20
End at: 2018-03-05 18:07:50

# Below is generated by plot.py at 2018-03-05 23:19:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.304 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 99.304 ms
Loss rate: 0.89%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-05 18:22:54

End at: 2018-03-05 18:23:24

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.979 ms

Loss rate: 0.76%

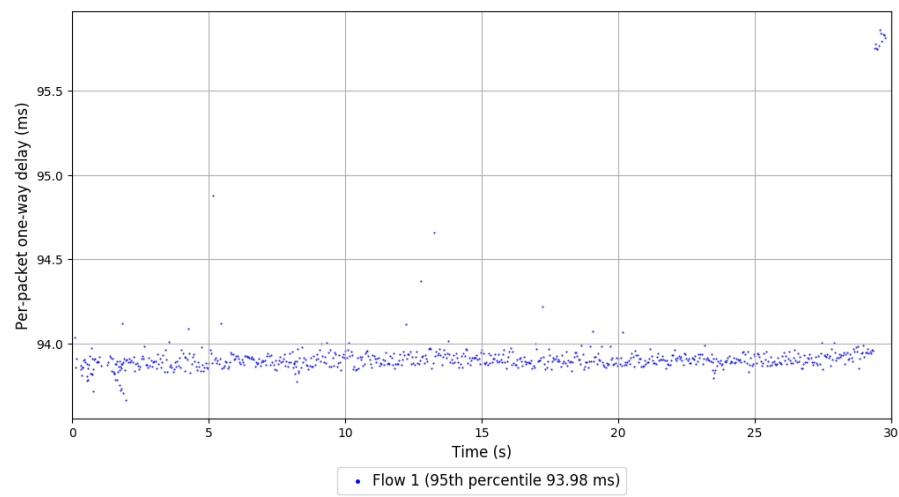
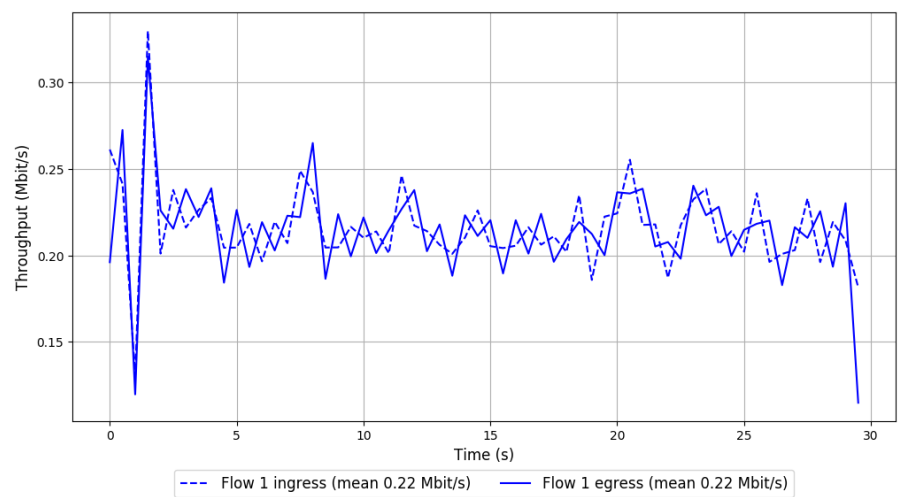
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 93.979 ms

Loss rate: 0.76%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-05 18:39:19

End at: 2018-03-05 18:39:49

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 89.391 ms

Loss rate: 0.77%

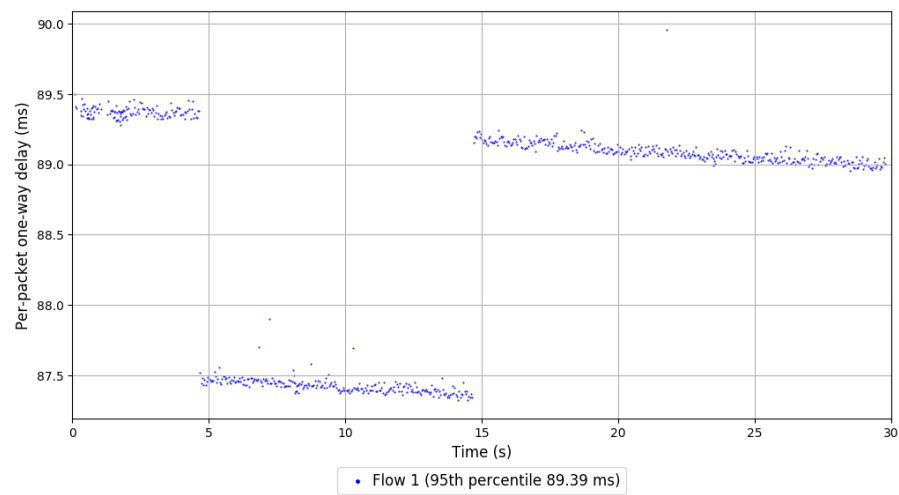
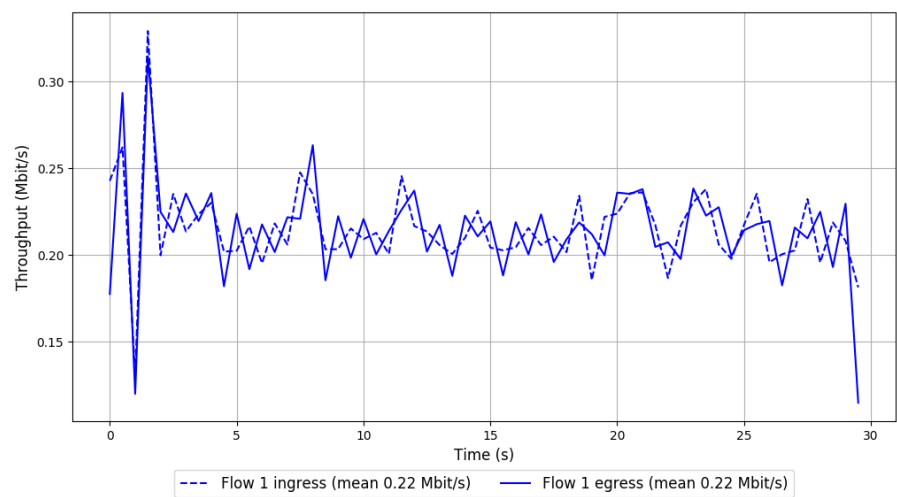
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 89.391 ms

Loss rate: 0.77%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-05 18:55:59

End at: 2018-03-05 18:56:29

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 96.789 ms

Loss rate: 0.76%

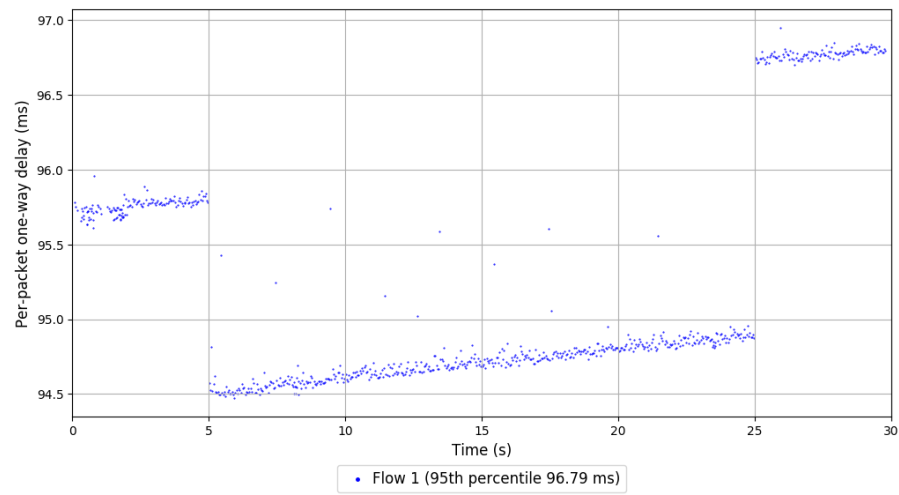
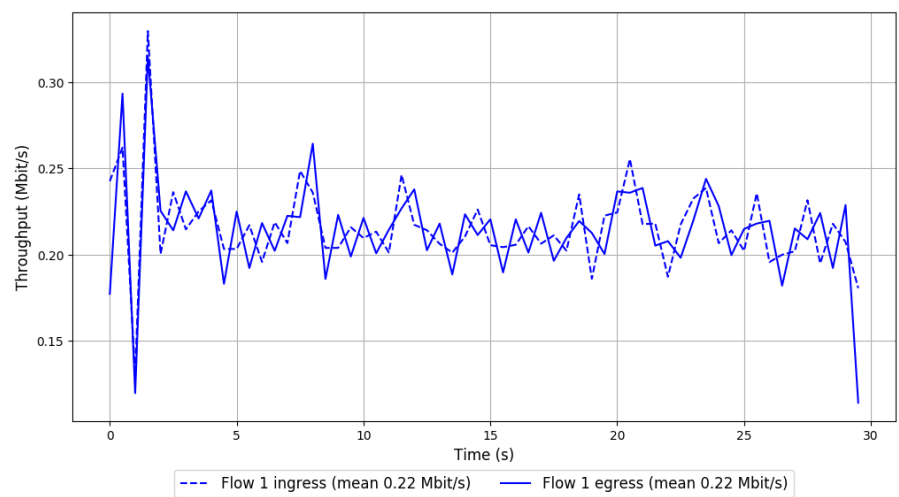
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 96.789 ms

Loss rate: 0.76%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-05 19:11:39

End at: 2018-03-05 19:12:09

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.713 ms

Loss rate: 0.76%

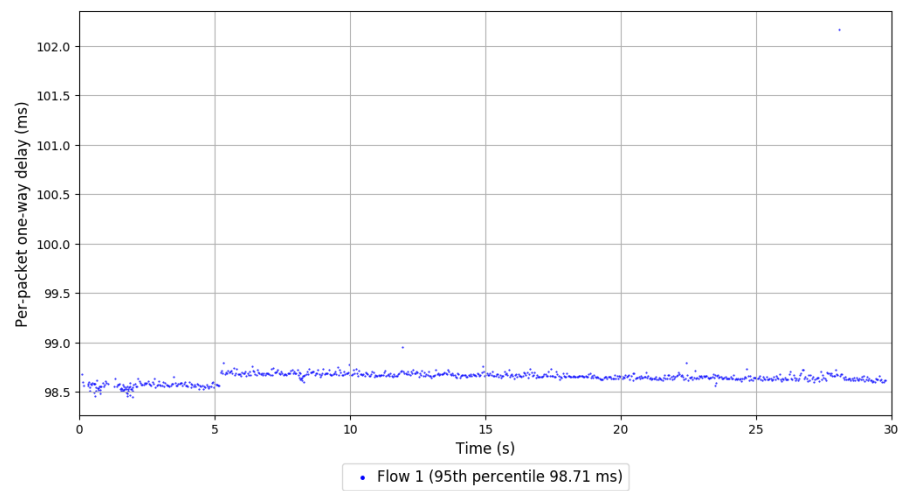
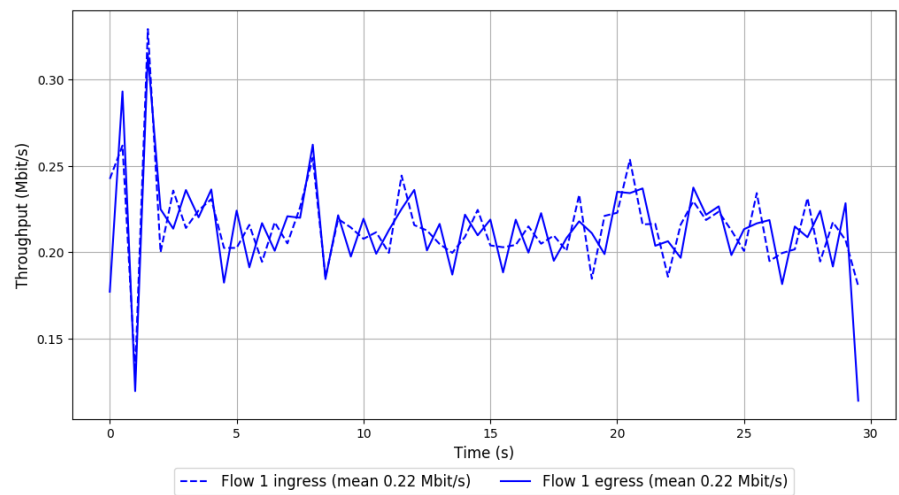
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 98.713 ms

Loss rate: 0.76%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-05 19:27:06

End at: 2018-03-05 19:27:36

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.013 ms

Loss rate: 0.76%

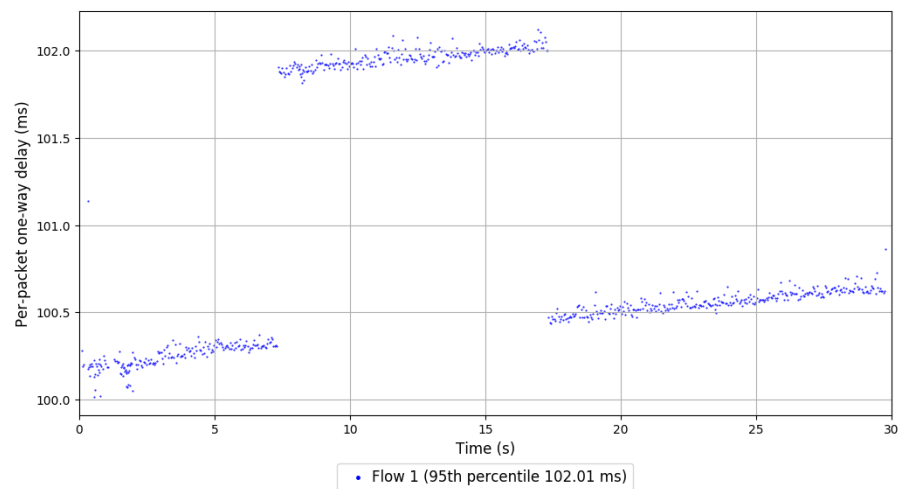
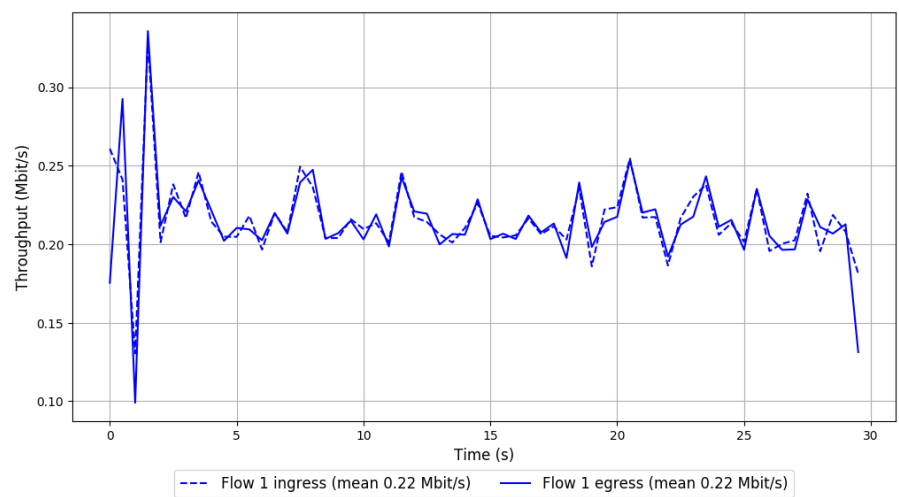
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.013 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-05 19:42:17

End at: 2018-03-05 19:42:47

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.953 ms

Loss rate: 0.76%

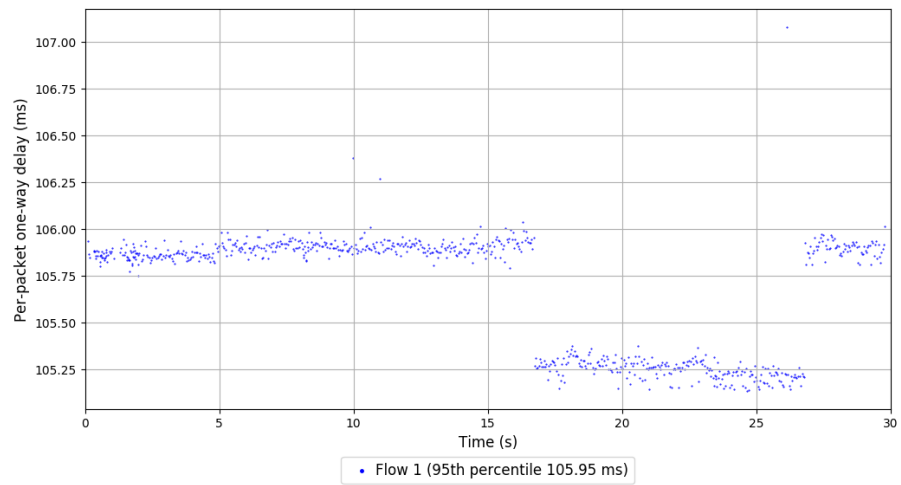
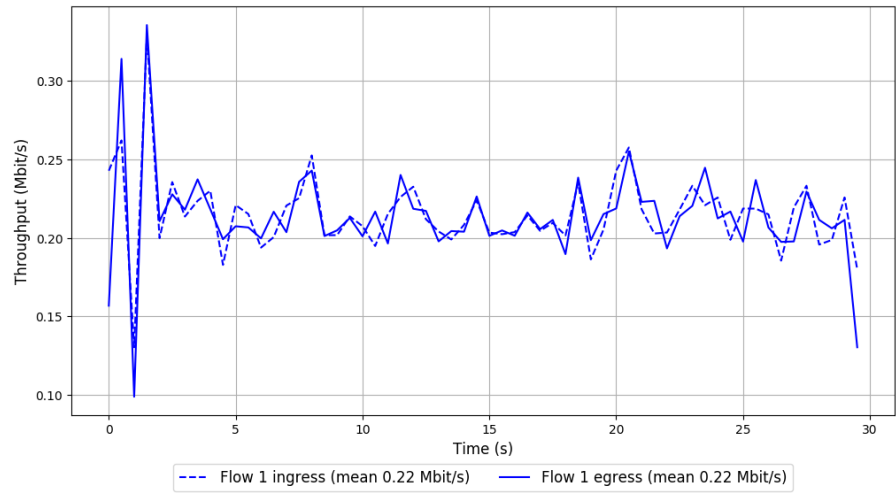
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.953 ms

Loss rate: 0.76%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-05 19:57:44

End at: 2018-03-05 19:58:14

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 103.169 ms

Loss rate: 0.77%

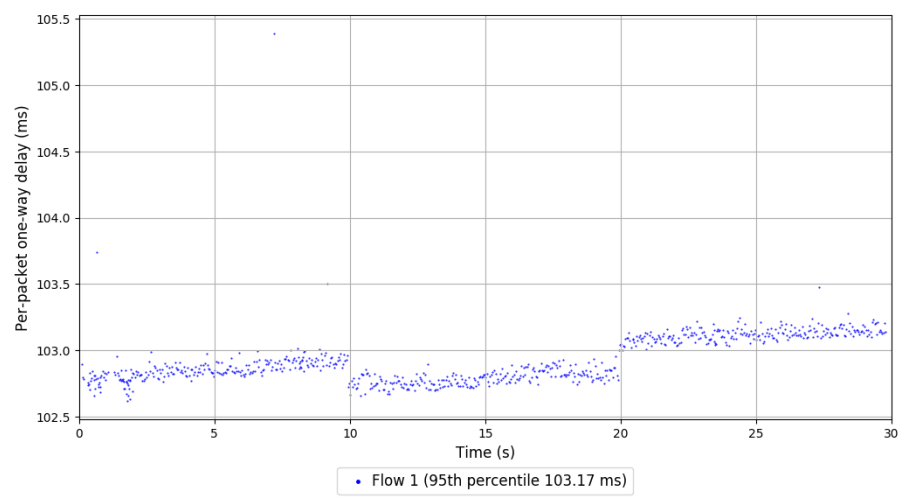
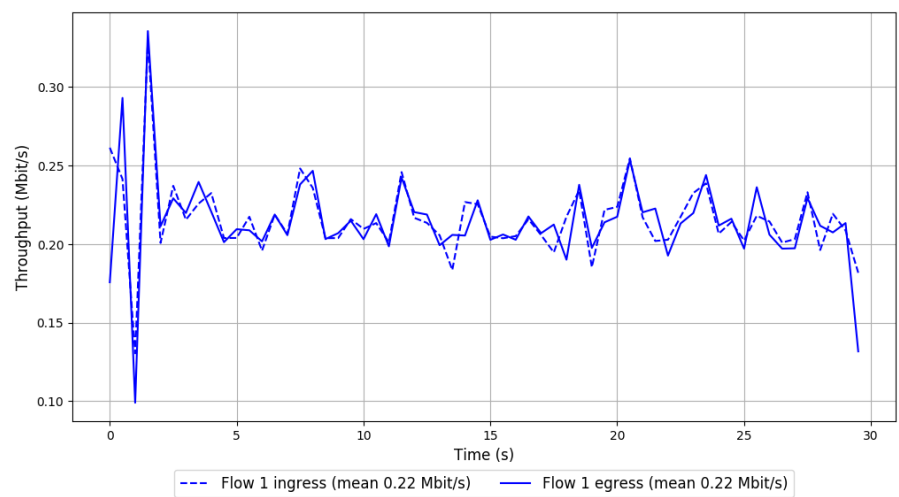
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 103.169 ms

Loss rate: 0.77%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

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

End at: 2018-03-05 20:13:43

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.828 ms

Loss rate: 0.76%

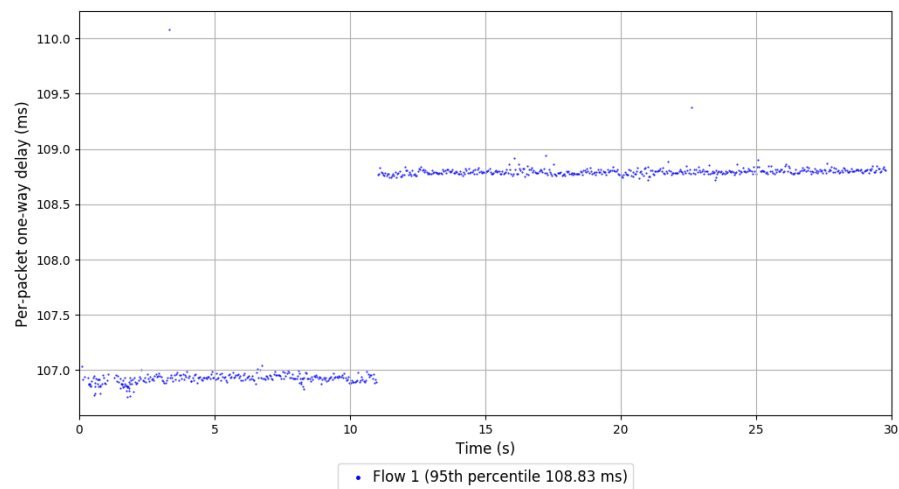
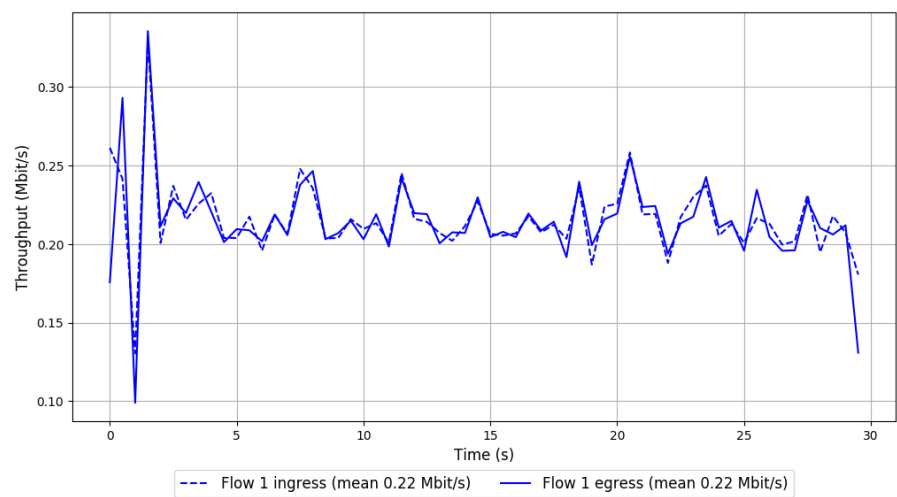
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.828 ms

Loss rate: 0.76%

Run 10: Report of SReAM — Data Link

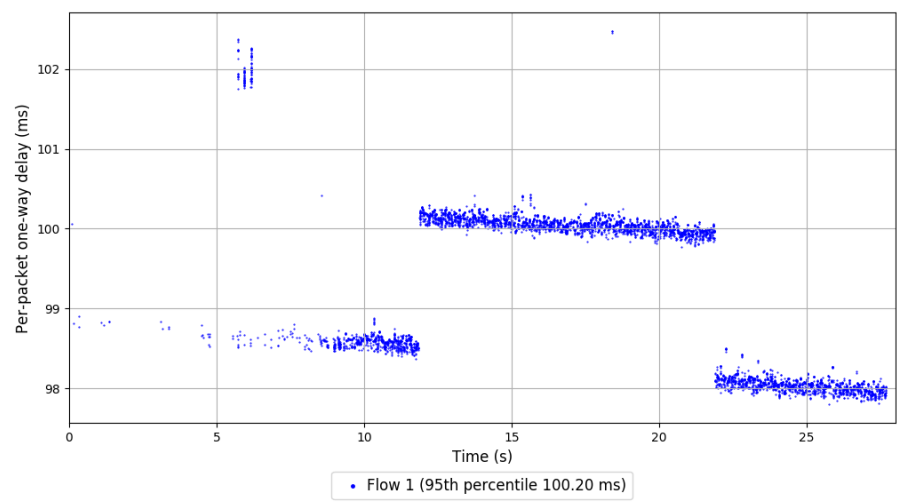
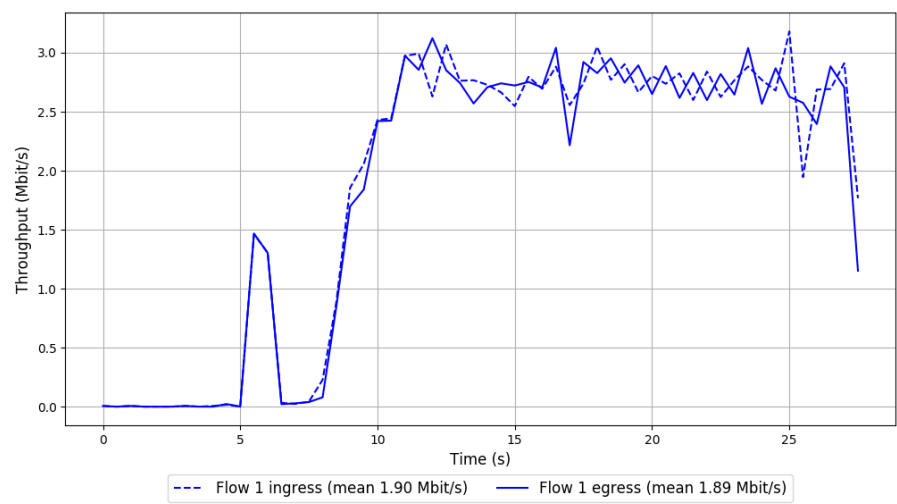


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-05 17:55:20
End at: 2018-03-05 17:55:50

# Below is generated by plot.py at 2018-03-05 23:19:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 100.202 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 100.202 ms
Loss rate: 1.22%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-05 18:10:46

End at: 2018-03-05 18:11:16

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 95.394 ms

Loss rate: 0.88%

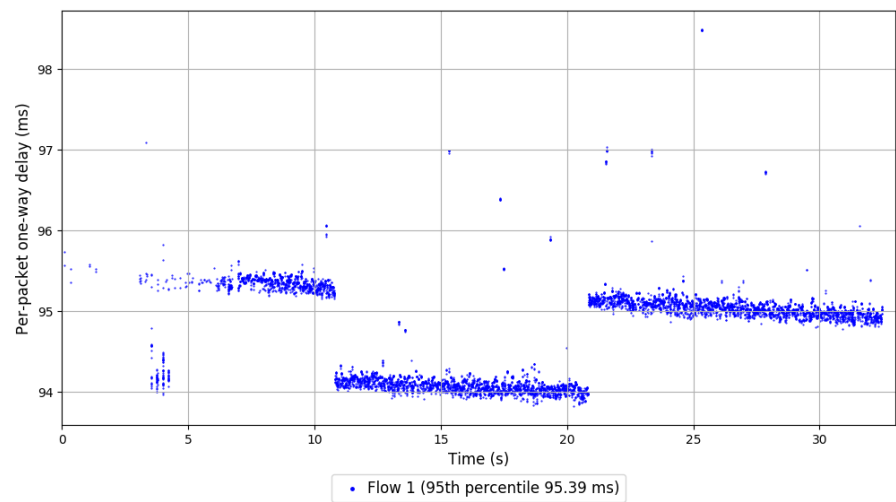
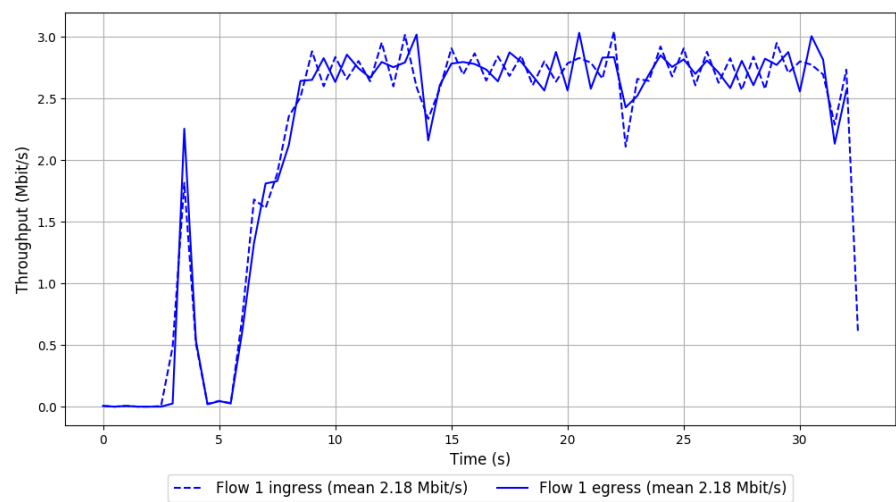
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 95.394 ms

Loss rate: 0.88%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-05 18:26:28

End at: 2018-03-05 18:26:58

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 94.823 ms

Loss rate: 0.77%

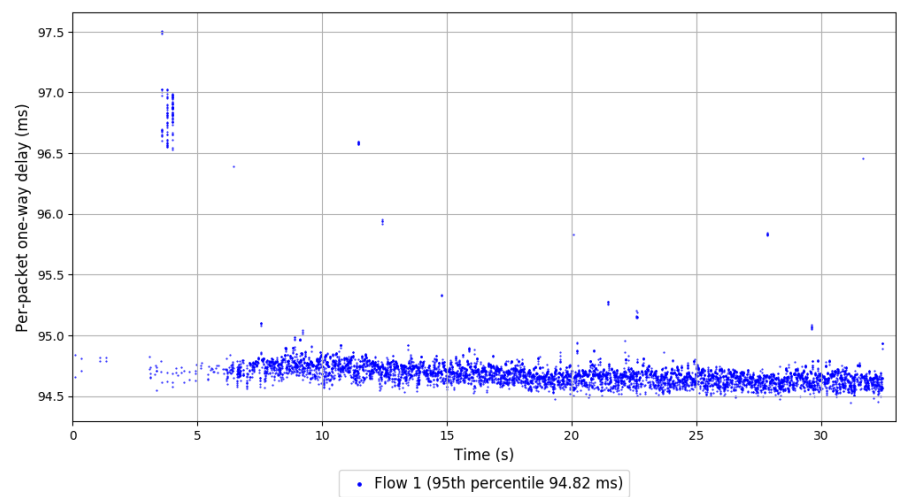
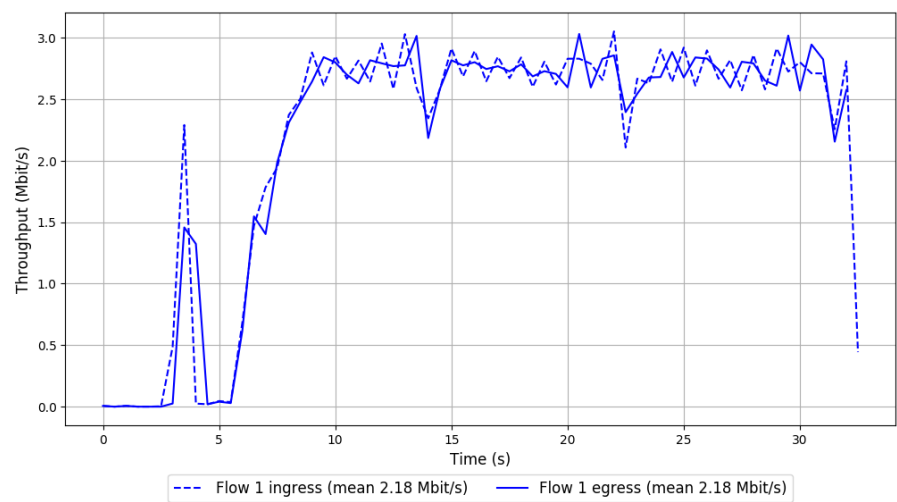
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 94.823 ms

Loss rate: 0.77%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-05 18:42:41

End at: 2018-03-05 18:43:11

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 84.345 ms

Loss rate: 0.93%

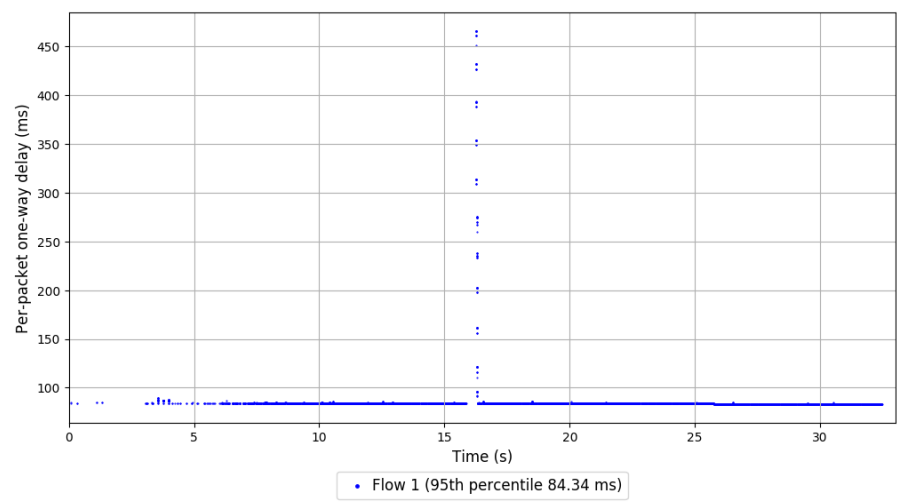
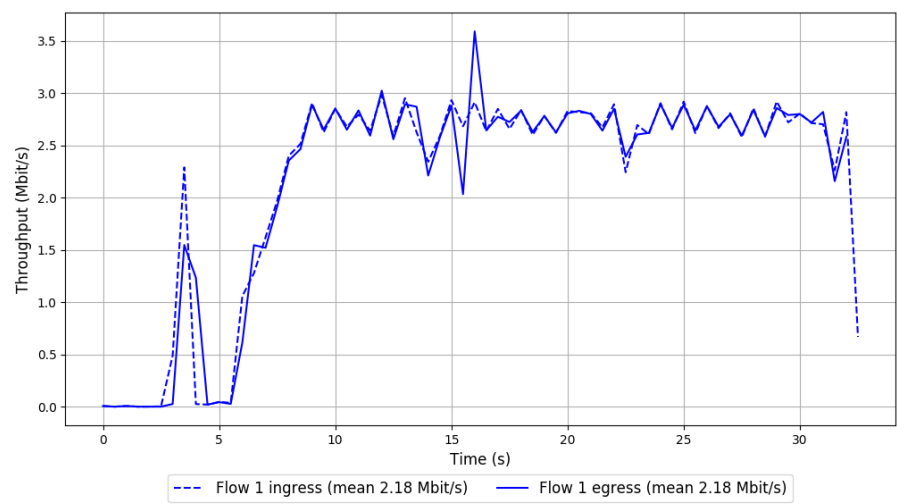
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 84.345 ms

Loss rate: 0.93%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-05 18:59:27

End at: 2018-03-05 18:59:57

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 99.187 ms

Loss rate: 0.92%

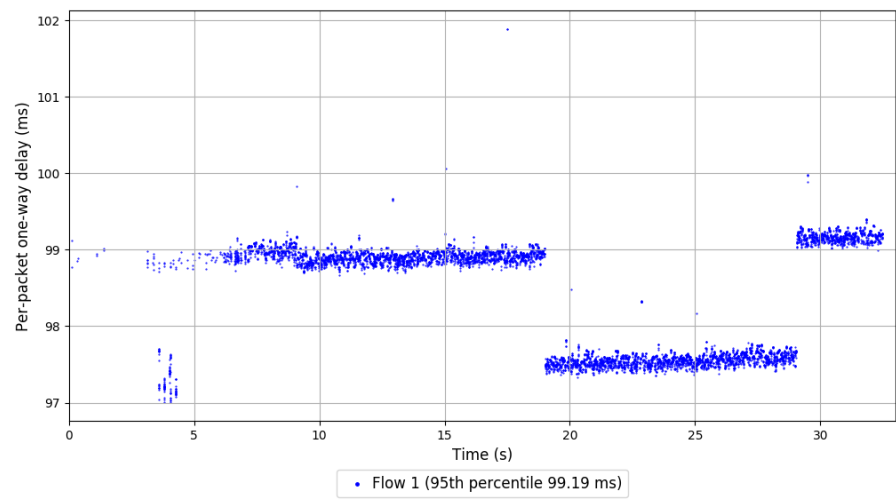
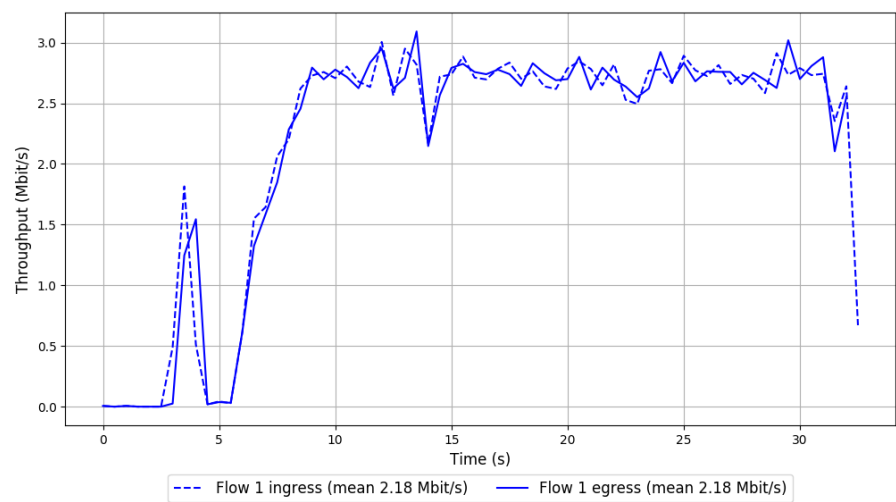
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 99.187 ms

Loss rate: 0.92%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-05 19:14:54

End at: 2018-03-05 19:15:25

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 98.045 ms

Loss rate: 0.92%

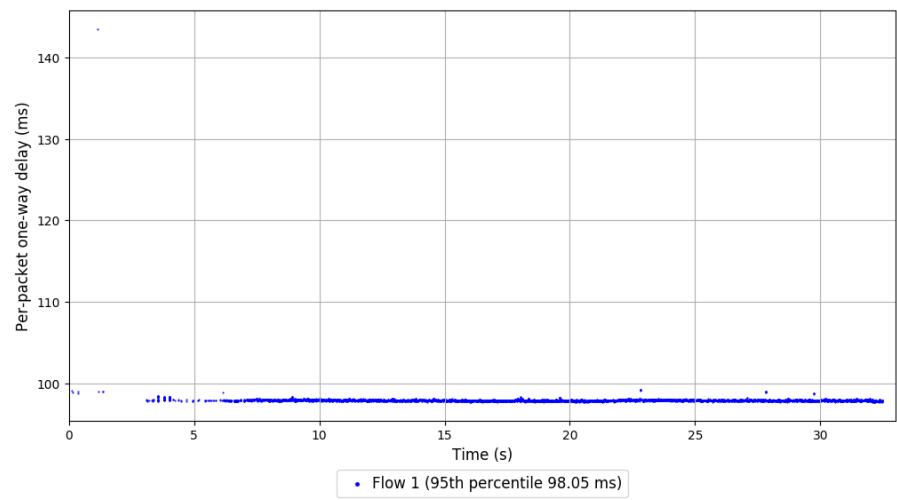
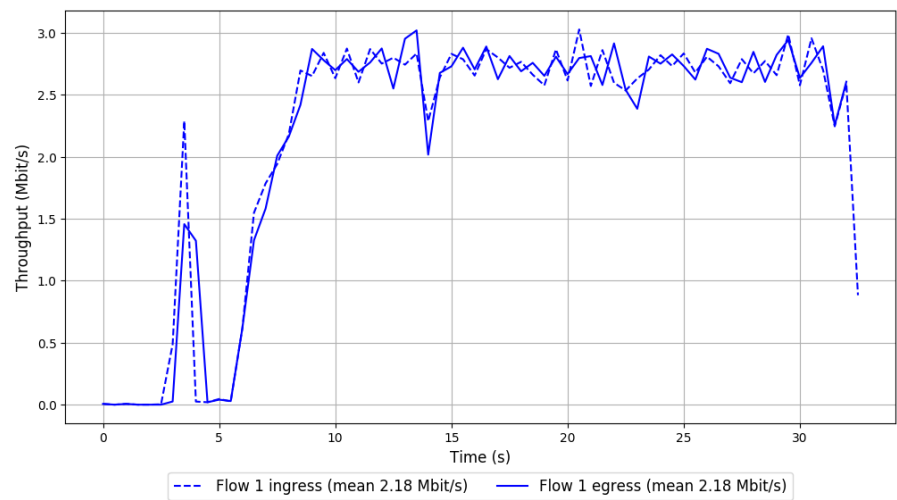
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 98.045 ms

Loss rate: 0.92%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-05 19:30:17

End at: 2018-03-05 19:30:47

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 105.940 ms

Loss rate: 0.94%

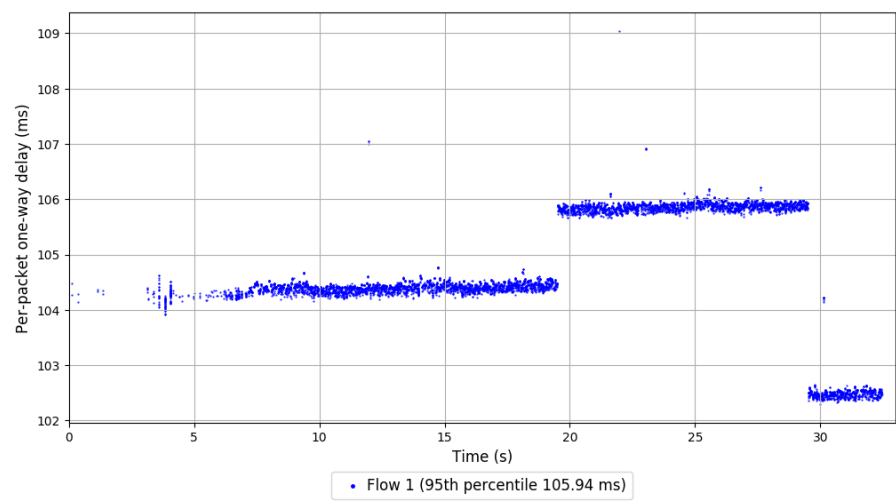
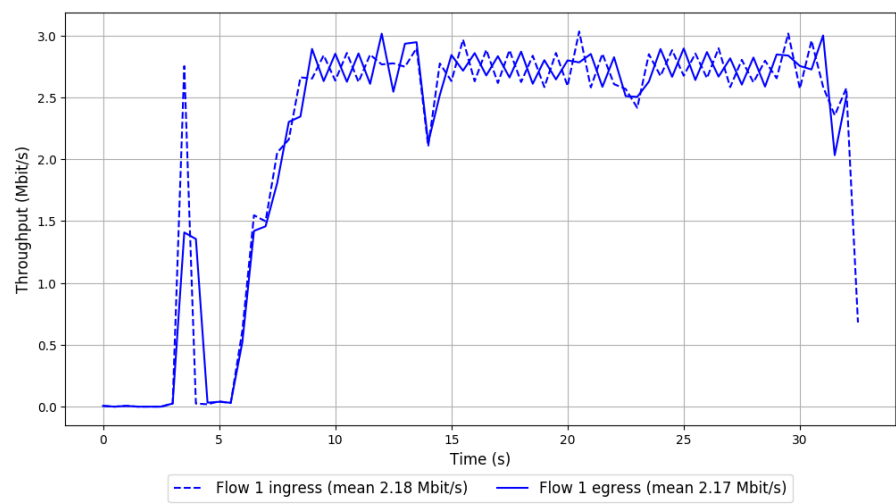
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 105.940 ms

Loss rate: 0.94%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-05 19:45:45

End at: 2018-03-05 19:46:15

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 107.224 ms

Loss rate: 0.93%

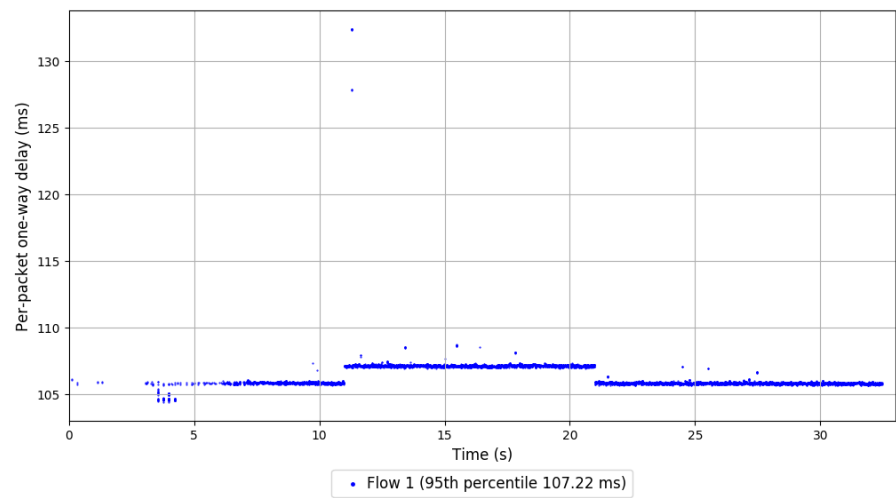
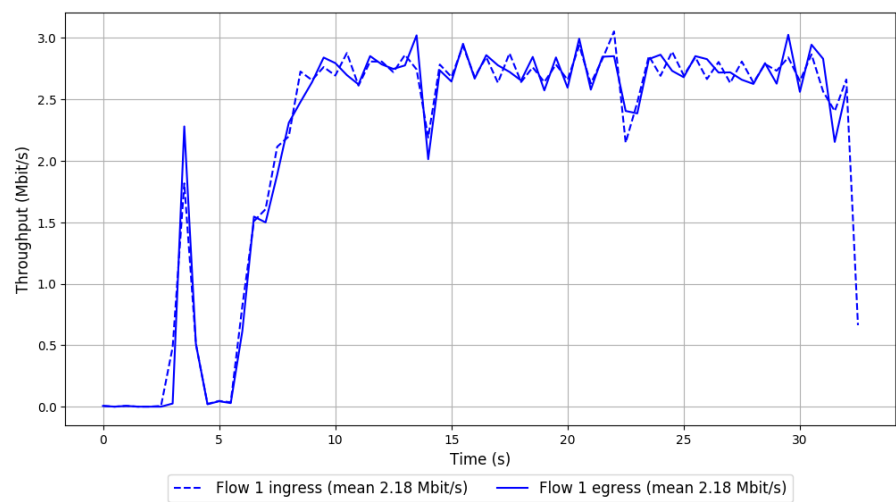
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 107.224 ms

Loss rate: 0.93%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-05 20:01:00

End at: 2018-03-05 20:01:30

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 105.941 ms

Loss rate: 0.91%

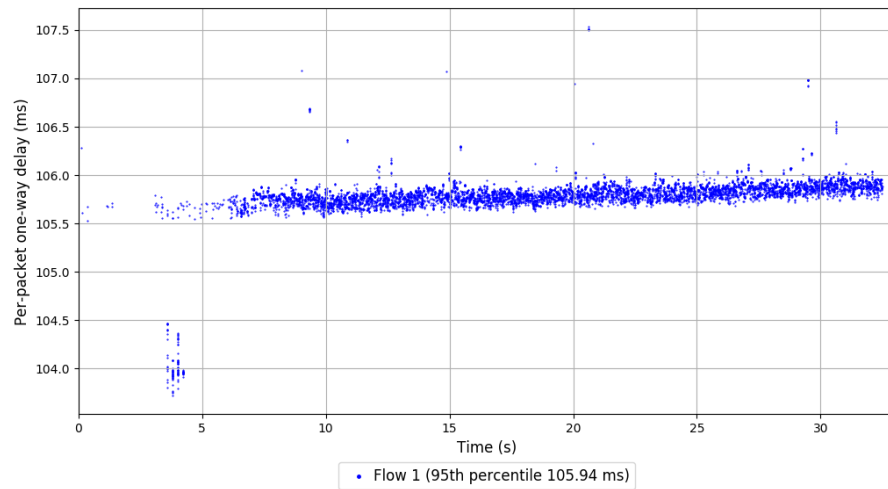
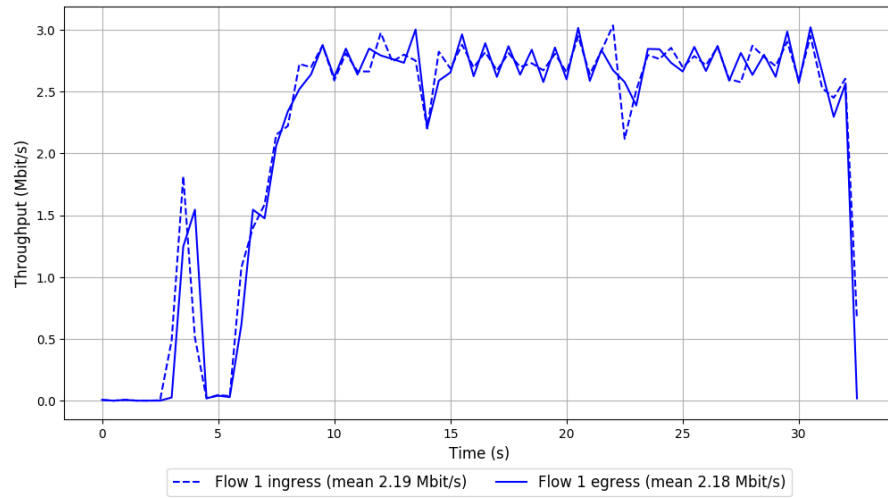
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 105.941 ms

Loss rate: 0.91%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-05 20:16:41

End at: 2018-03-05 20:17:11

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 111.385 ms

Loss rate: 0.92%

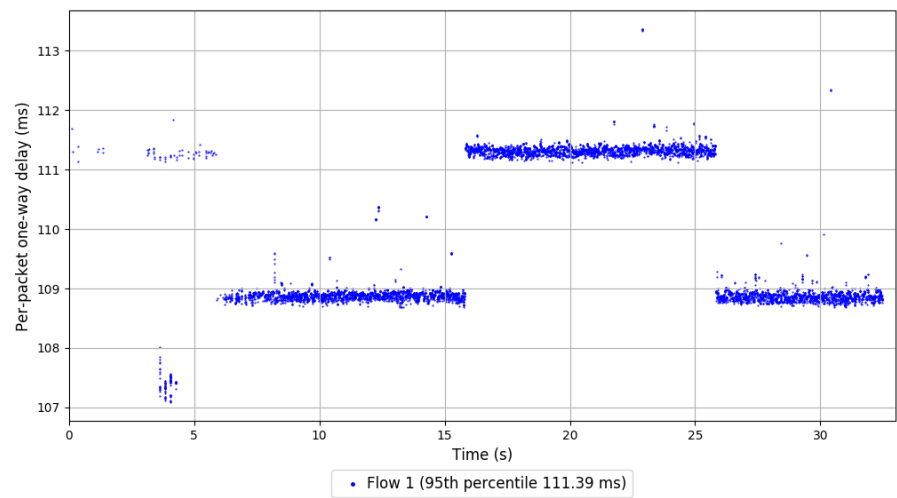
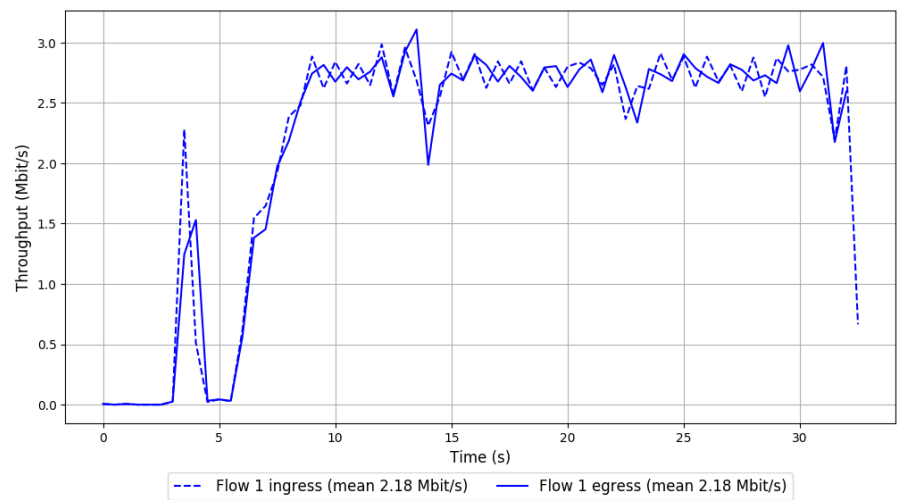
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 111.385 ms

Loss rate: 0.92%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-05 17:49:40

End at: 2018-03-05 17:50:10

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 105.688 ms

Loss rate: 1.23%

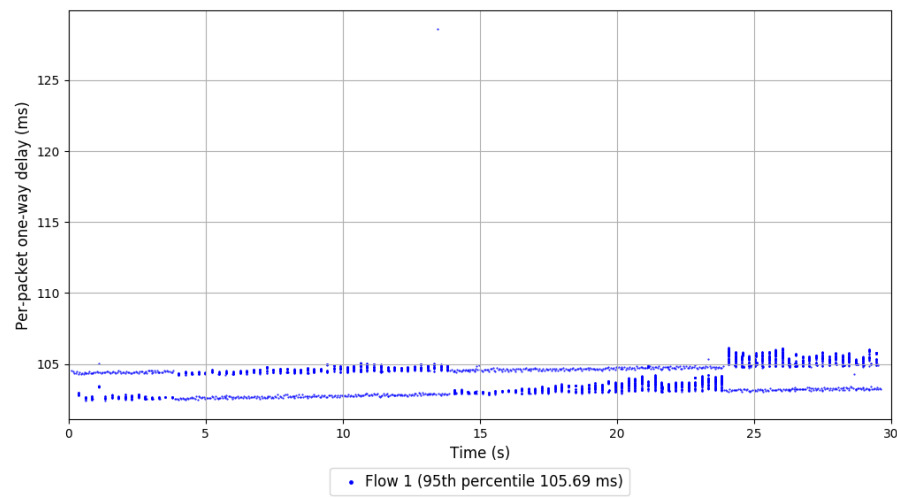
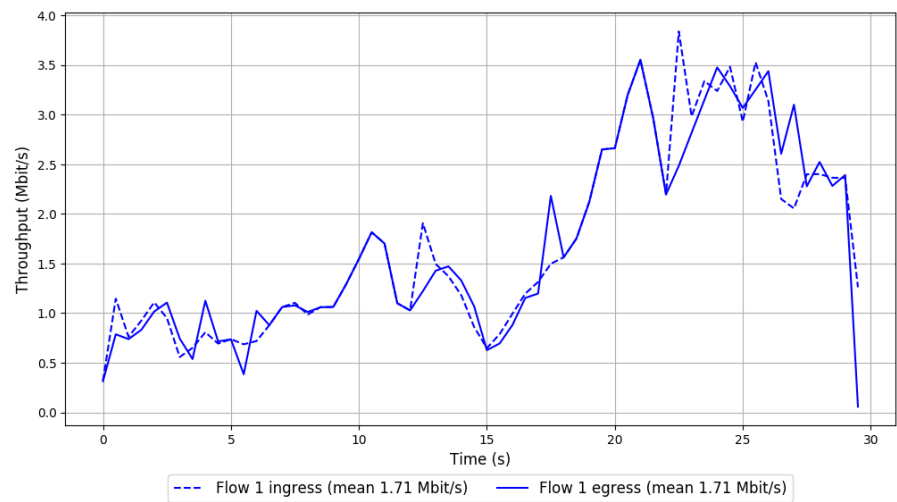
-- Flow 1:

Average throughput: 1.71 Mbit/s

95th percentile per-packet one-way delay: 105.688 ms

Loss rate: 1.23%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-05 18:05:30

End at: 2018-03-05 18:06:00

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 101.405 ms

Loss rate: 0.81%

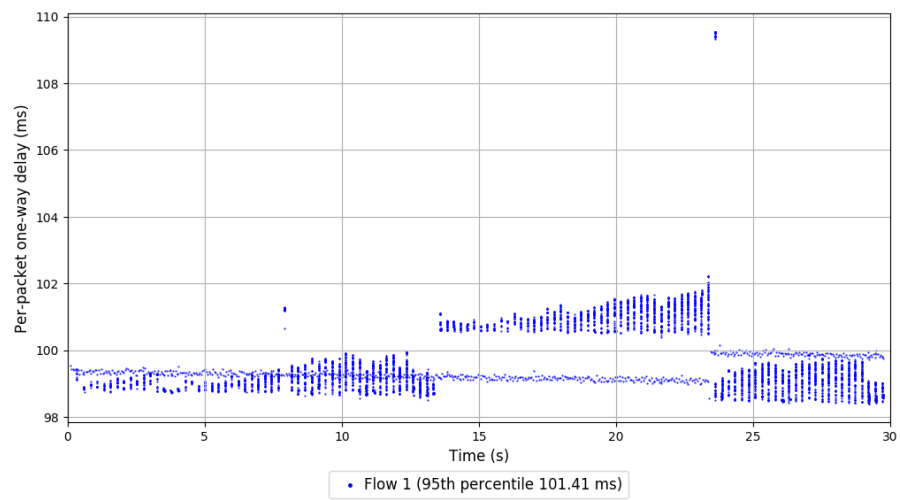
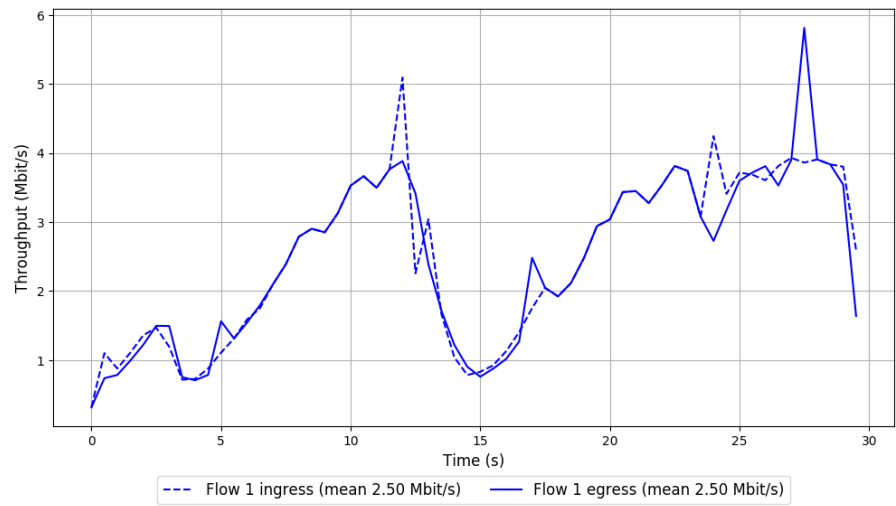
-- Flow 1:

Average throughput: 2.50 Mbit/s

95th percentile per-packet one-way delay: 101.405 ms

Loss rate: 0.81%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-05 18:21:04

End at: 2018-03-05 18:21:34

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 97.610 ms

Loss rate: 0.50%

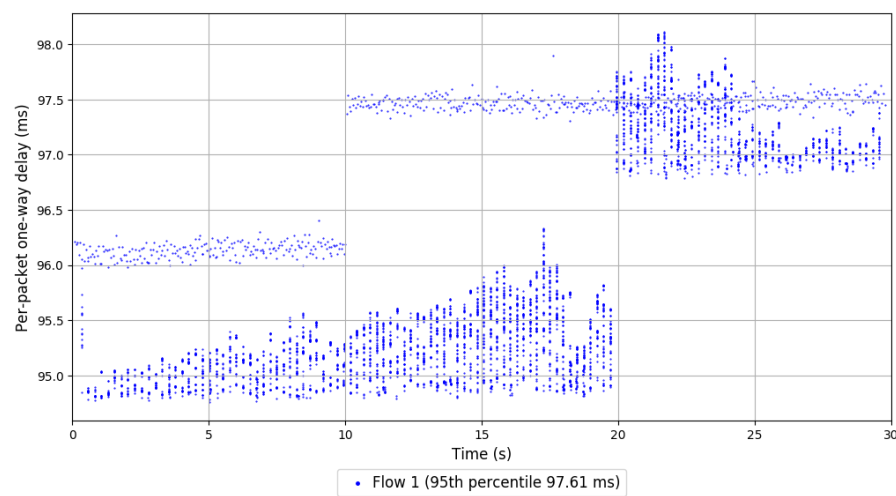
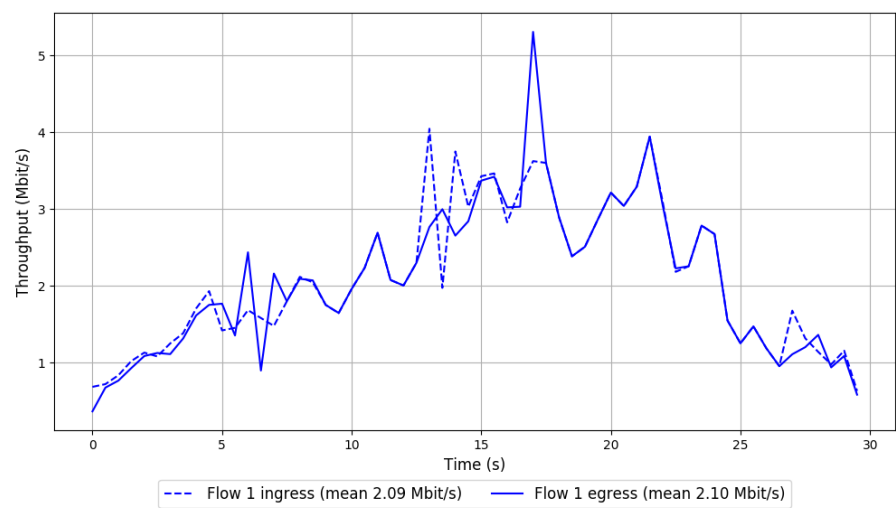
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 97.610 ms

Loss rate: 0.50%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-05 18:37:27

End at: 2018-03-05 18:37:57

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 91.293 ms

Loss rate: 0.00%

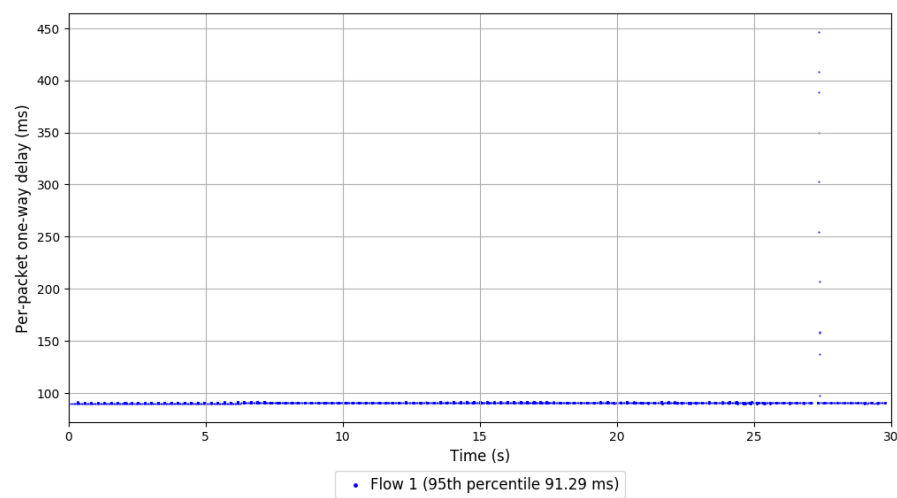
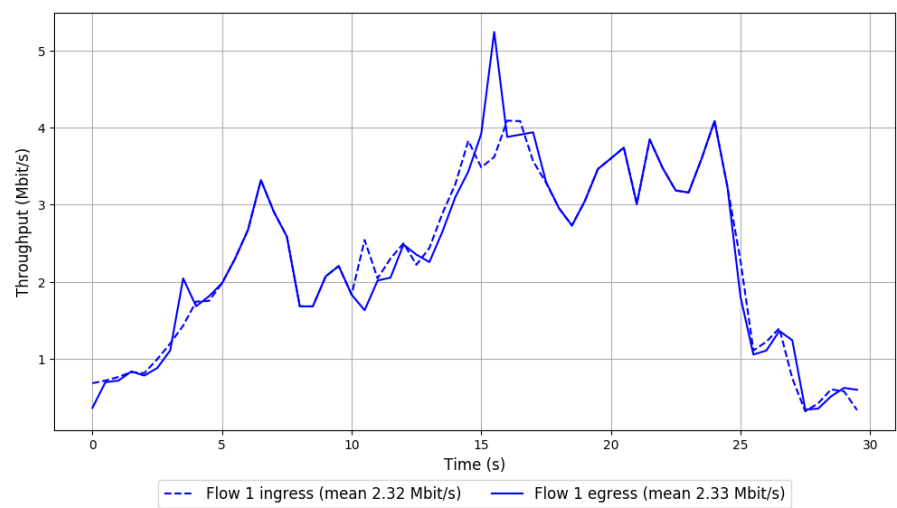
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 91.293 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-05 18:53:56

End at: 2018-03-05 18:54:26

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 94.064 ms

Loss rate: 0.76%

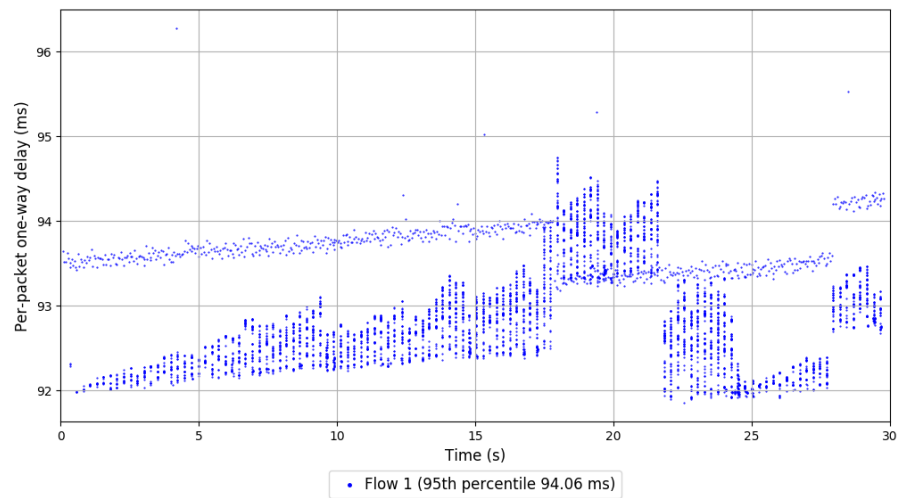
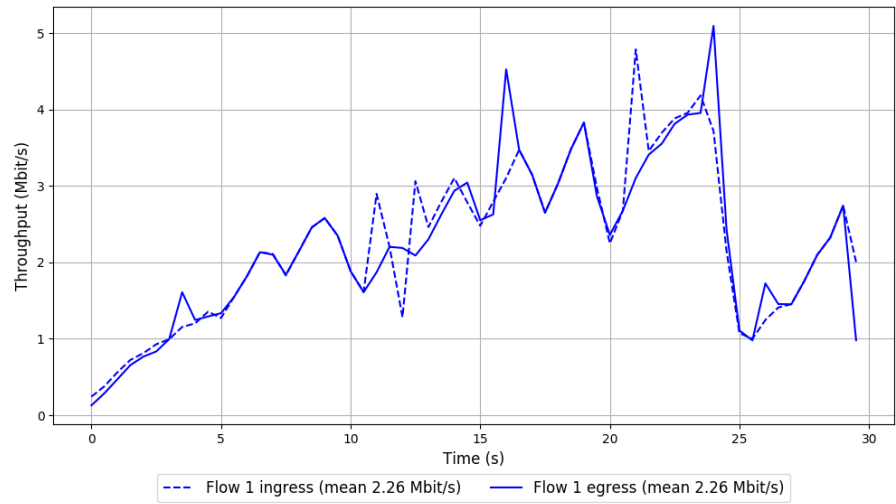
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 94.064 ms

Loss rate: 0.76%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-05 19:09:51

End at: 2018-03-05 19:10:21

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 100.275 ms

Loss rate: 0.58%

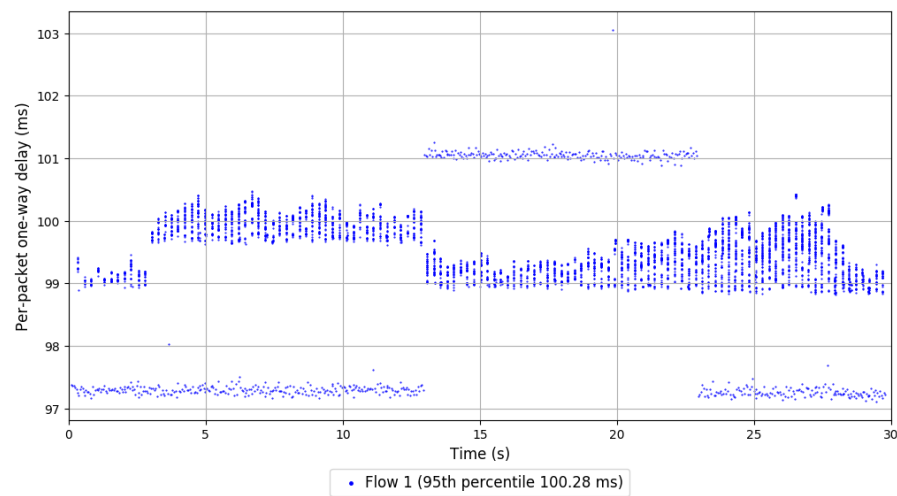
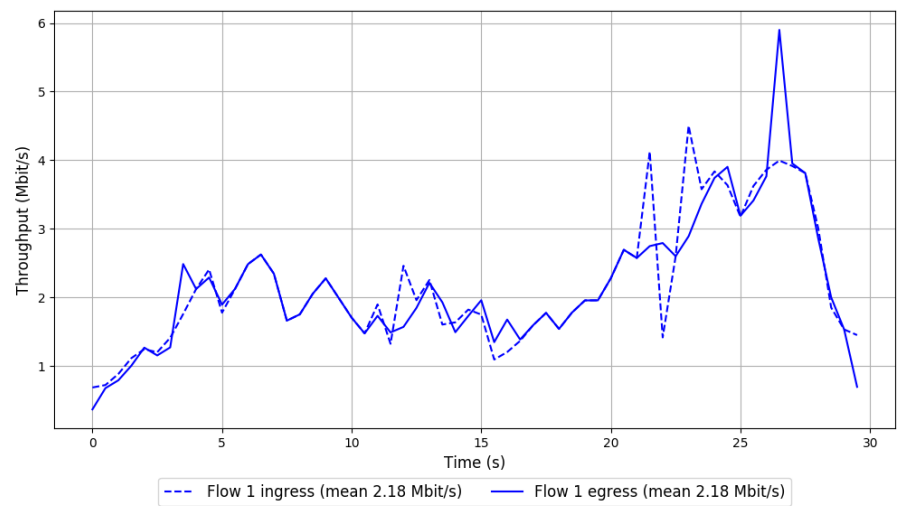
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 100.275 ms

Loss rate: 0.58%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-05 19:25:17

End at: 2018-03-05 19:25:47

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 100.545 ms

Loss rate: 1.22%

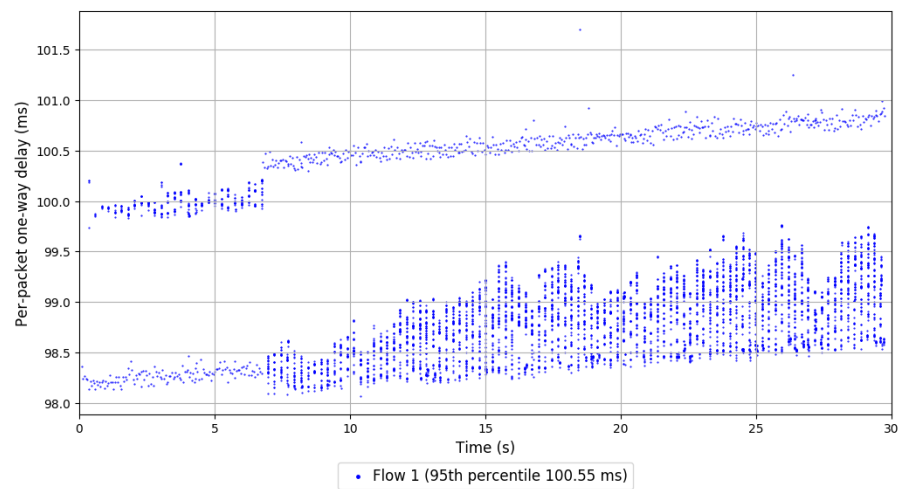
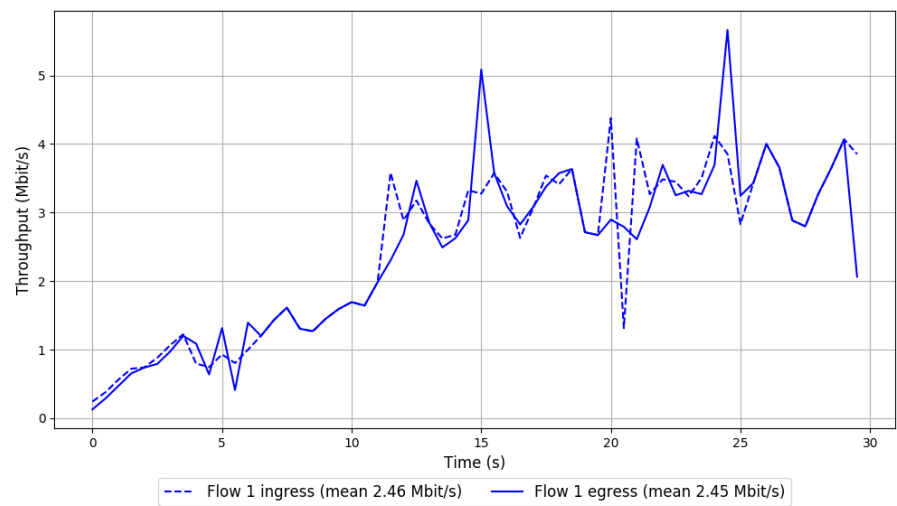
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 100.545 ms

Loss rate: 1.22%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-05 19:40:28

End at: 2018-03-05 19:40:58

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 107.714 ms

Loss rate: 1.00%

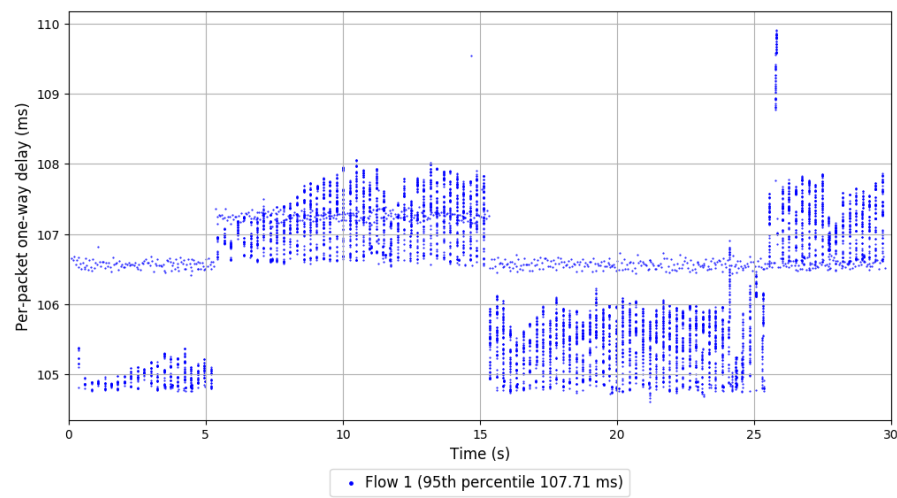
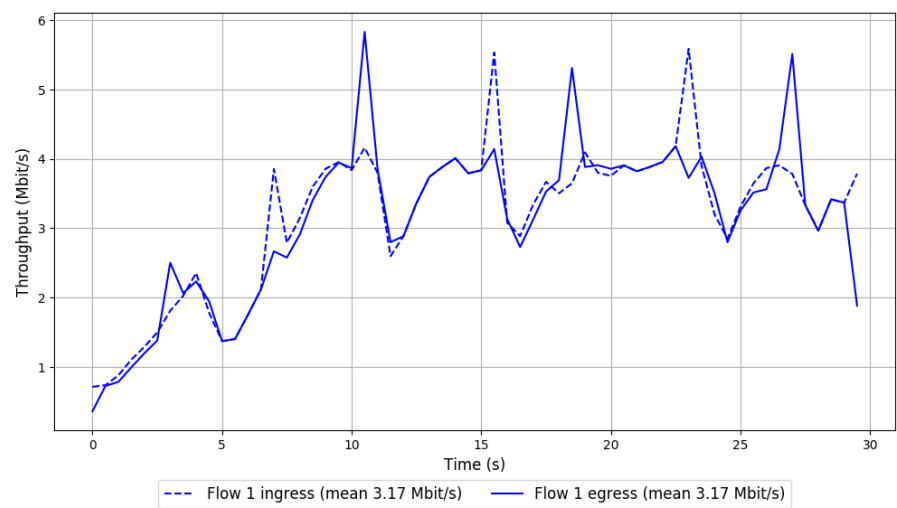
-- Flow 1:

Average throughput: 3.17 Mbit/s

95th percentile per-packet one-way delay: 107.714 ms

Loss rate: 1.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-05 19:56:03

End at: 2018-03-05 19:56:33

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 105.839 ms

Loss rate: 1.01%

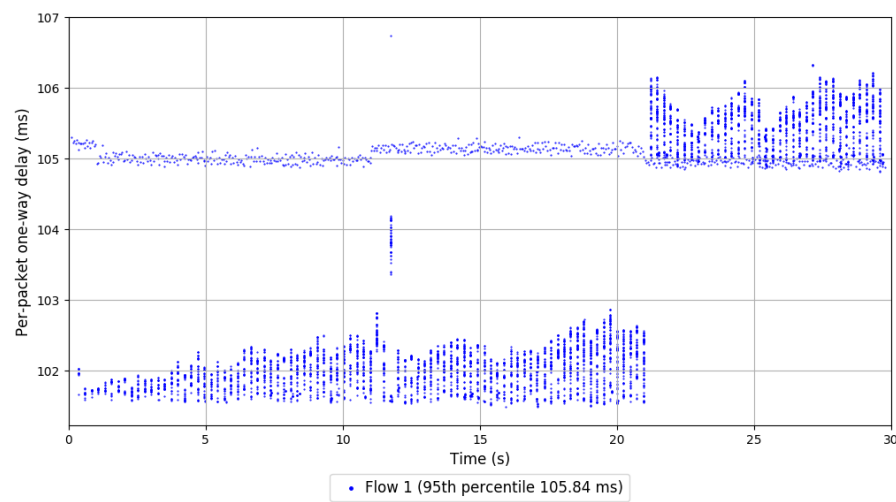
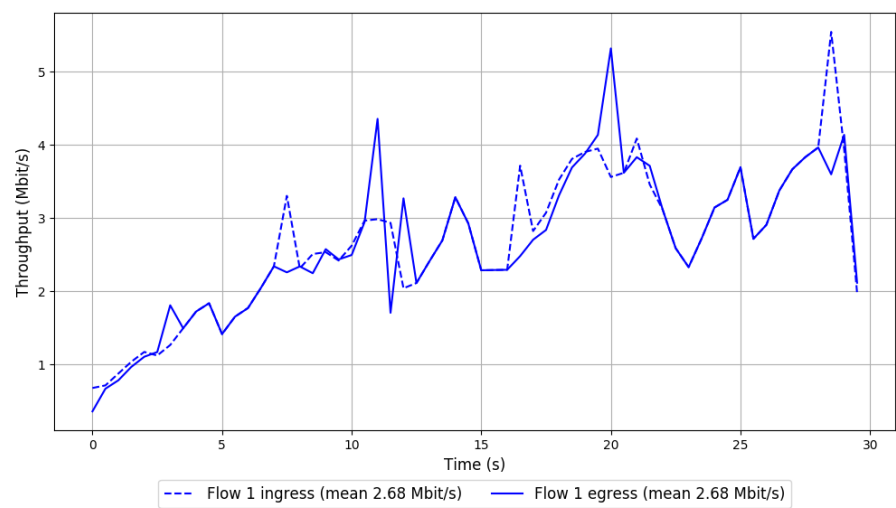
-- Flow 1:

Average throughput: 2.68 Mbit/s

95th percentile per-packet one-way delay: 105.839 ms

Loss rate: 1.01%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-05 20:11:25

End at: 2018-03-05 20:11:55

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 110.769 ms

Loss rate: 1.00%

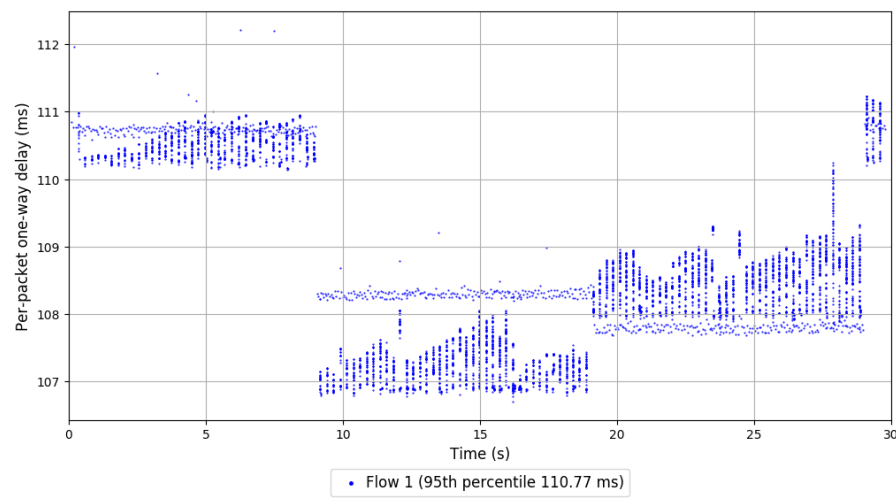
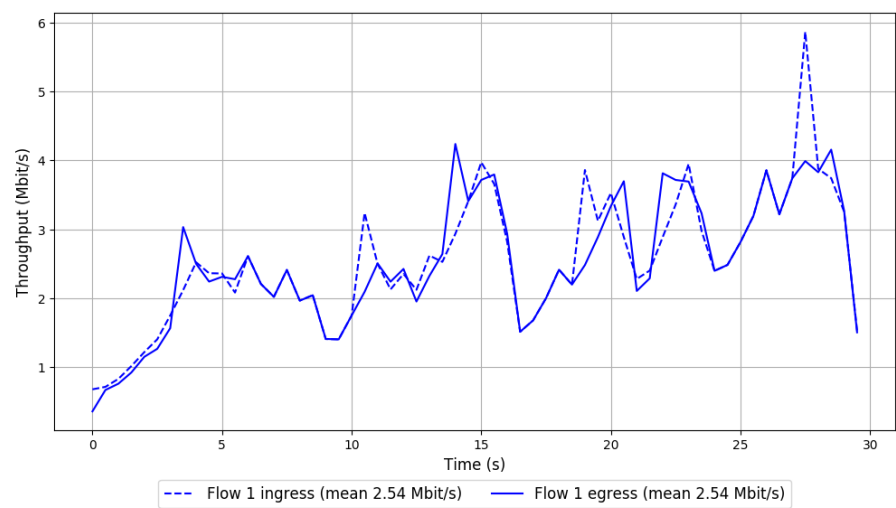
-- Flow 1:

Average throughput: 2.54 Mbit/s

95th percentile per-packet one-way delay: 110.769 ms

Loss rate: 1.00%

Run 10: Report of Sprout — Data Link

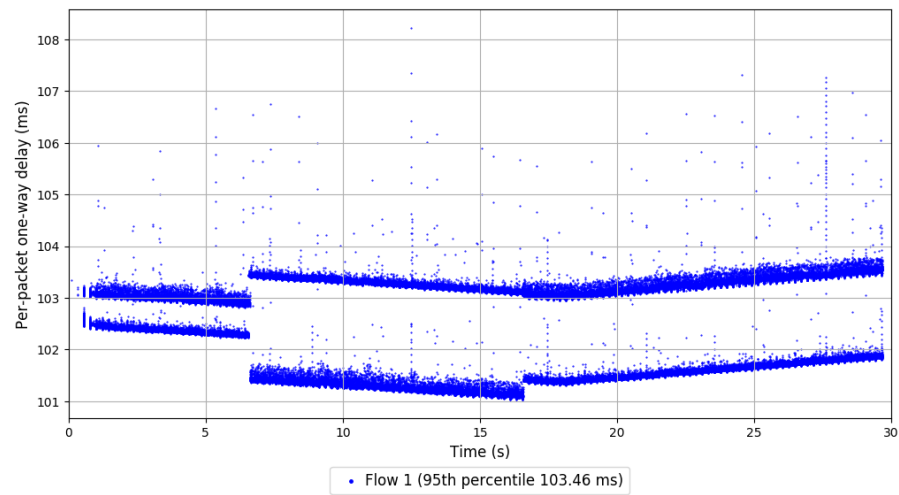
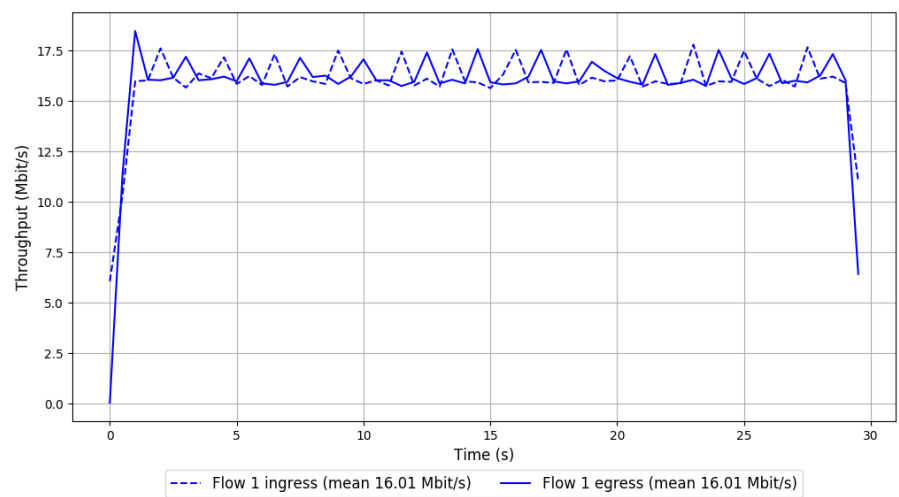


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-05 17:48:57
End at: 2018-03-05 17:49:27

# Below is generated by plot.py at 2018-03-05 23:19:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.01 Mbit/s
95th percentile per-packet one-way delay: 103.460 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 16.01 Mbit/s
95th percentile per-packet one-way delay: 103.460 ms
Loss rate: 0.77%
```

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

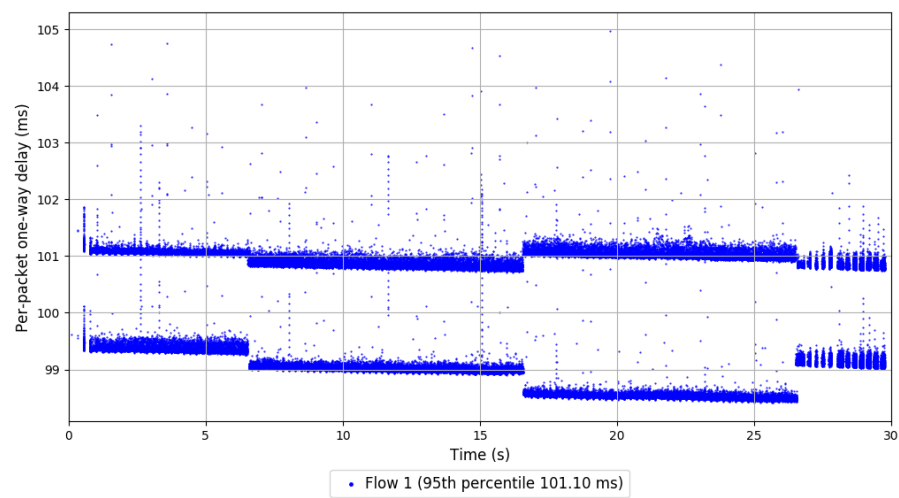
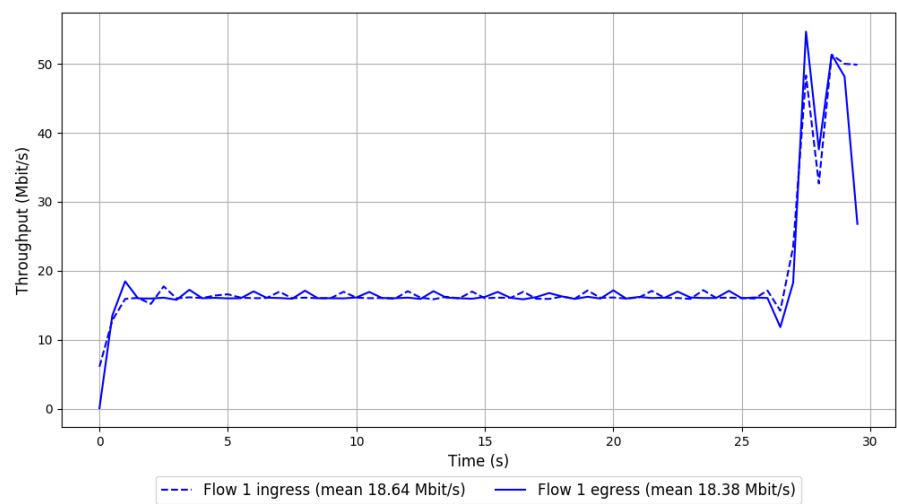


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-05 18:04:47
End at: 2018-03-05 18:05:17

# Below is generated by plot.py at 2018-03-05 23:19:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 18.38 Mbit/s
95th percentile per-packet one-way delay: 101.103 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 18.38 Mbit/s
95th percentile per-packet one-way delay: 101.103 ms
Loss rate: 2.23%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-05 18:20:19

End at: 2018-03-05 18:20:49

Below is generated by plot.py at 2018-03-05 23:19:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 96.584 ms

Loss rate: 1.28%

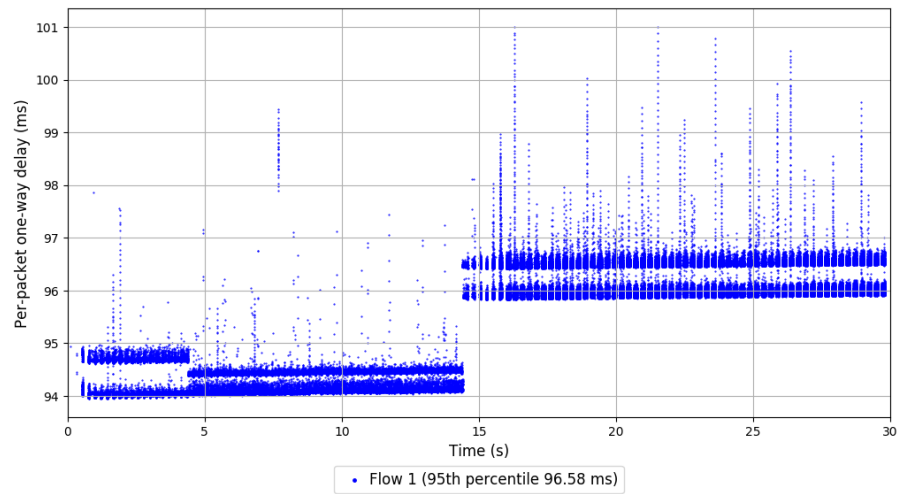
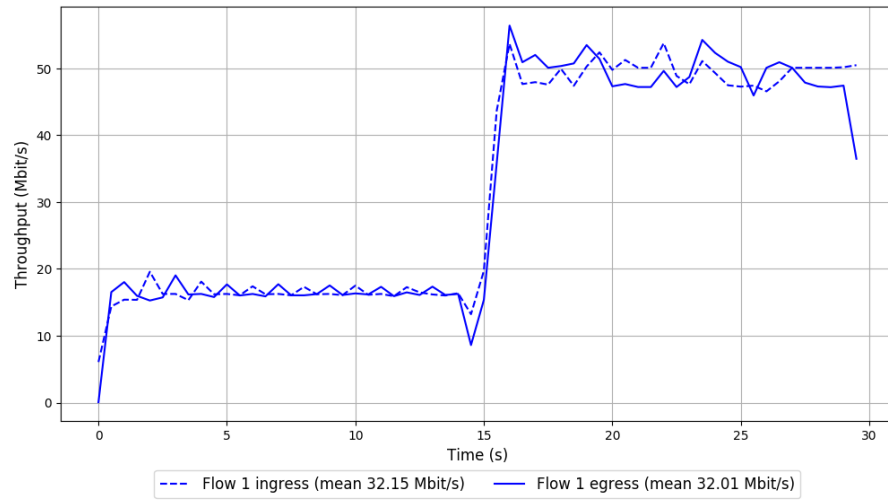
-- Flow 1:

Average throughput: 32.01 Mbit/s

95th percentile per-packet one-way delay: 96.584 ms

Loss rate: 1.28%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-05 18:36:26

End at: 2018-03-05 18:36:56

Below is generated by plot.py at 2018-03-05 23:21:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.20 Mbit/s

95th percentile per-packet one-way delay: 91.409 ms

Loss rate: 0.37%

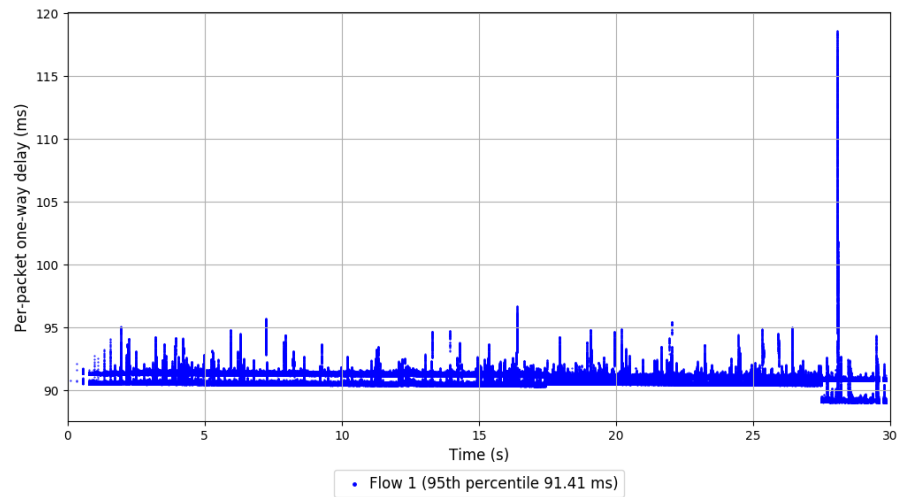
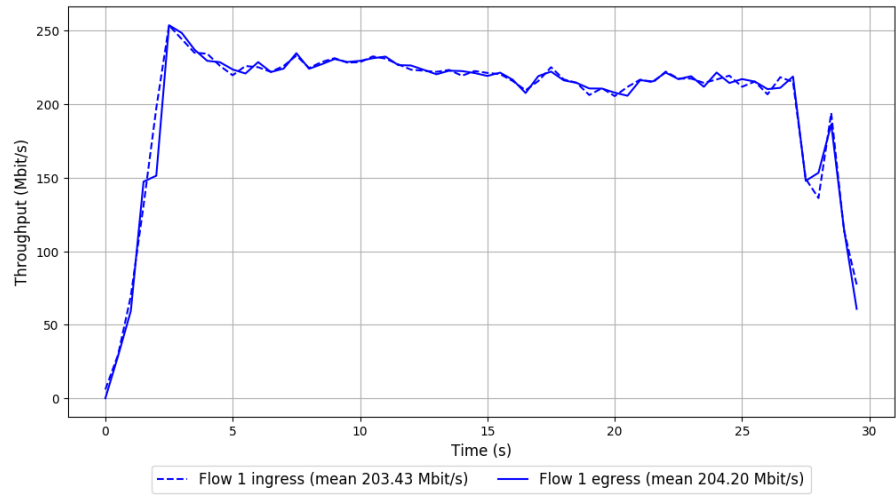
-- Flow 1:

Average throughput: 204.20 Mbit/s

95th percentile per-packet one-way delay: 91.409 ms

Loss rate: 0.37%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-05 18:52:48

End at: 2018-03-05 18:53:18

Below is generated by plot.py at 2018-03-05 23:21:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.25 Mbit/s

95th percentile per-packet one-way delay: 91.650 ms

Loss rate: 0.82%

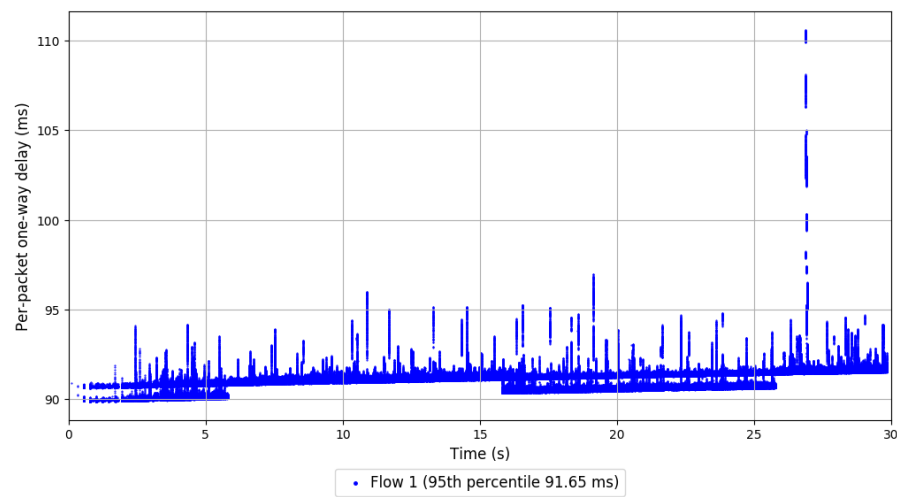
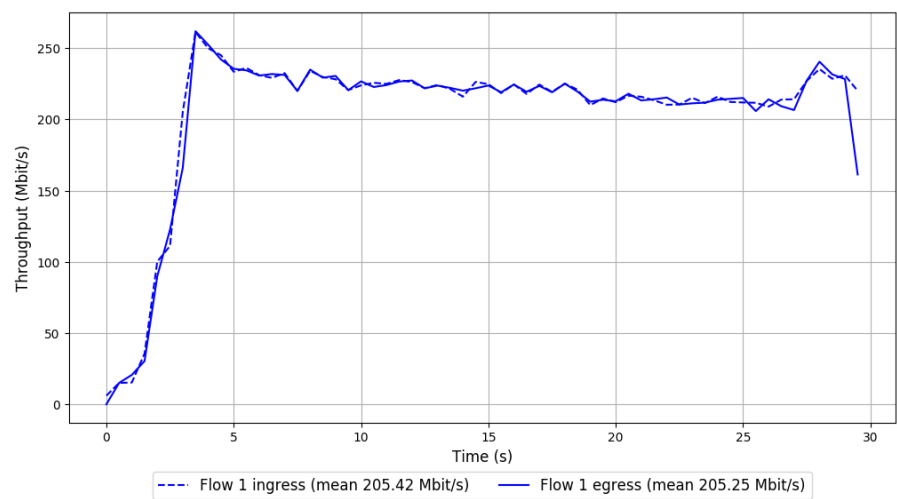
-- Flow 1:

Average throughput: 205.25 Mbit/s

95th percentile per-packet one-way delay: 91.650 ms

Loss rate: 0.82%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-05 19:08:49

End at: 2018-03-05 19:09:19

Below is generated by plot.py at 2018-03-05 23:21:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.88 Mbit/s

95th percentile per-packet one-way delay: 99.221 ms

Loss rate: 0.81%

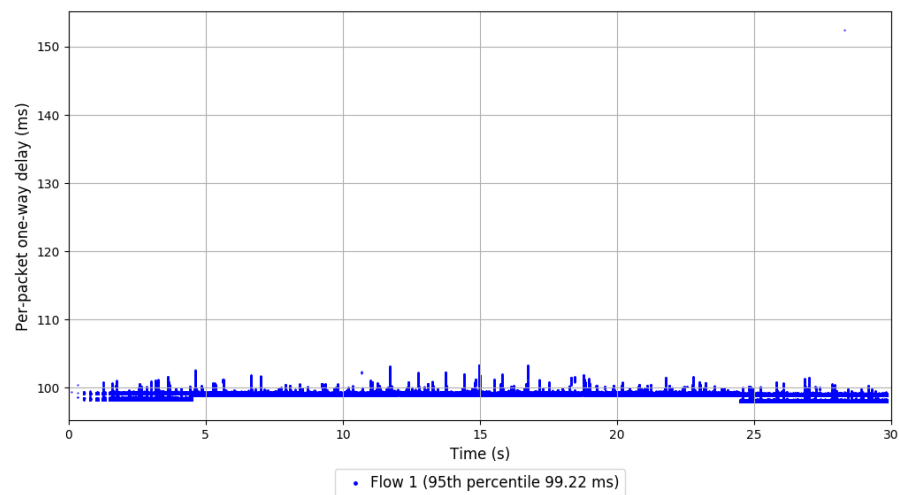
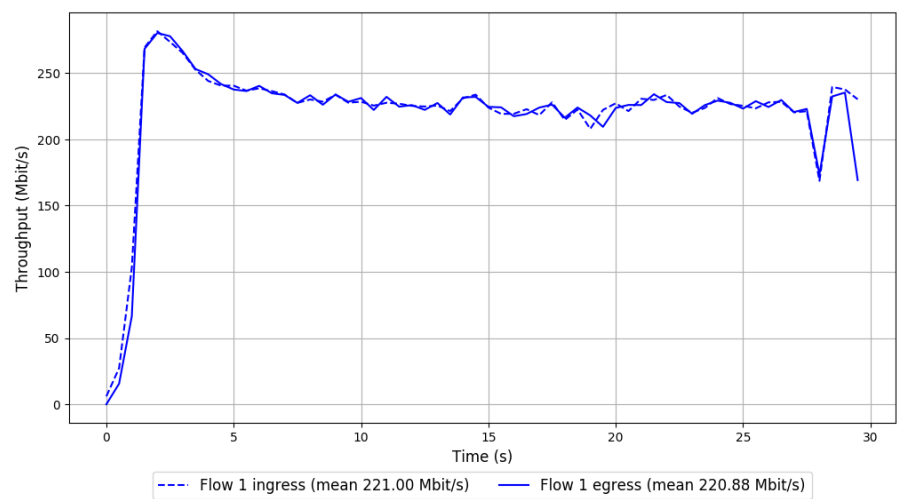
-- Flow 1:

Average throughput: 220.88 Mbit/s

95th percentile per-packet one-way delay: 99.221 ms

Loss rate: 0.81%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-05 19:24:26

End at: 2018-03-05 19:24:56

Below is generated by plot.py at 2018-03-05 23:21:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.26 Mbit/s

95th percentile per-packet one-way delay: 99.216 ms

Loss rate: 0.40%

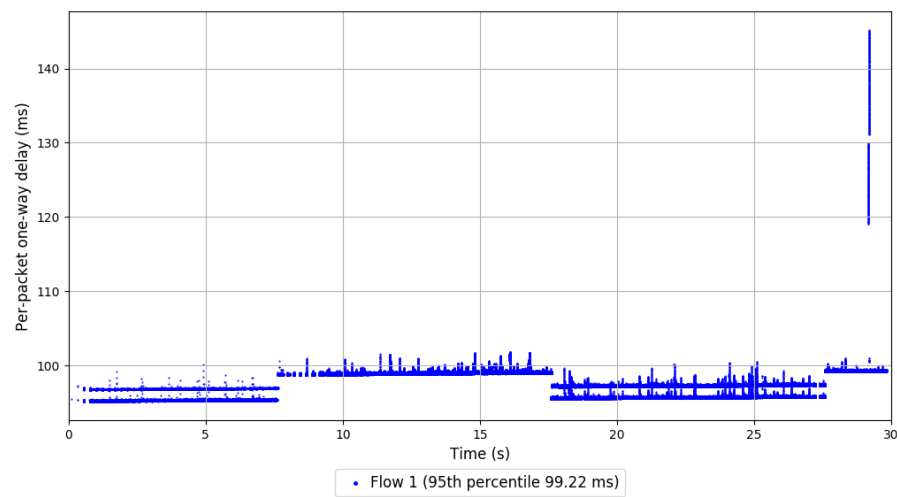
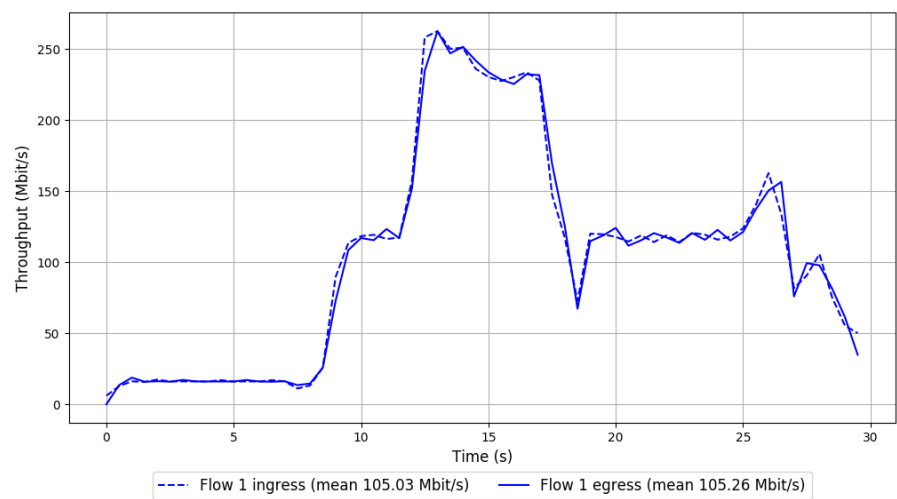
-- Flow 1:

Average throughput: 105.26 Mbit/s

95th percentile per-packet one-way delay: 99.216 ms

Loss rate: 0.40%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-05 19:39:46

End at: 2018-03-05 19:40:16

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 106.478 ms

Loss rate: 0.76%

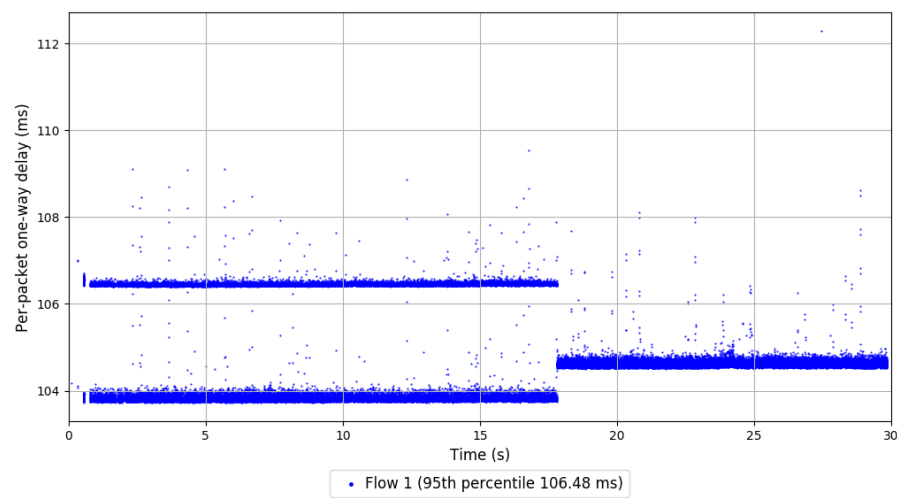
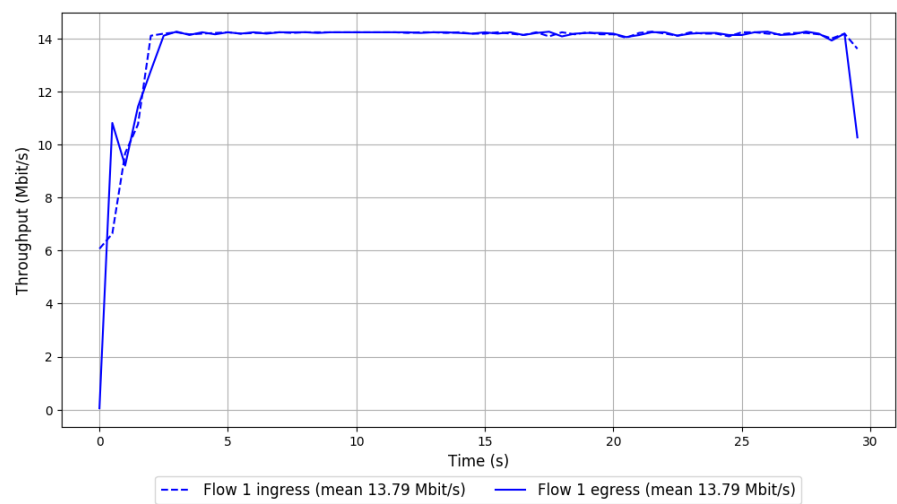
-- Flow 1:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 106.478 ms

Loss rate: 0.76%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-05 19:55:17

End at: 2018-03-05 19:55:47

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 104.988 ms

Loss rate: 0.05%

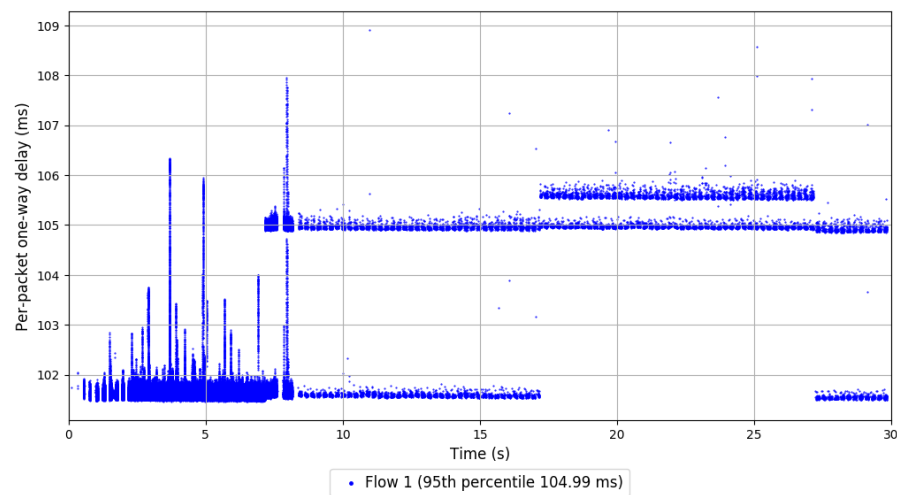
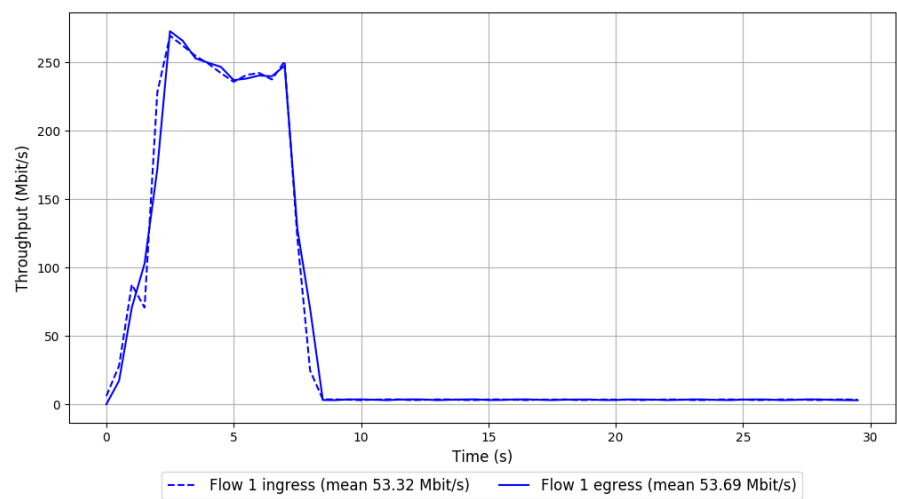
-- Flow 1:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 104.988 ms

Loss rate: 0.05%

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

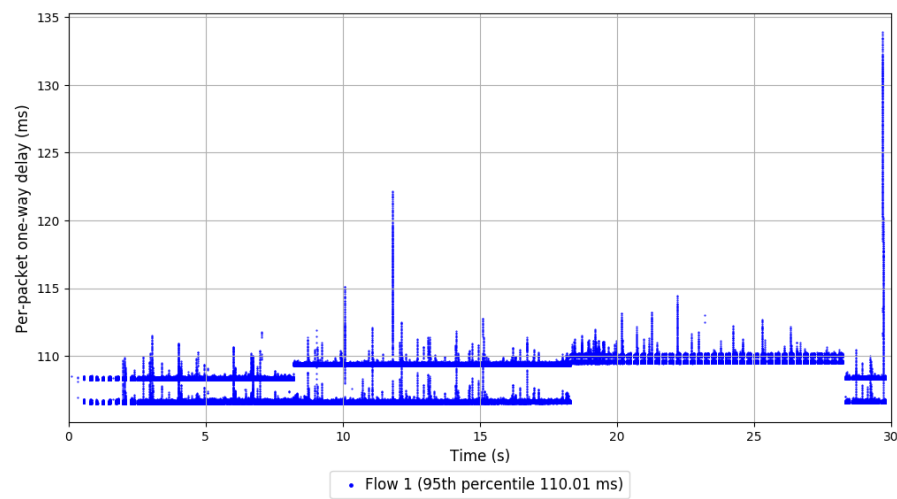
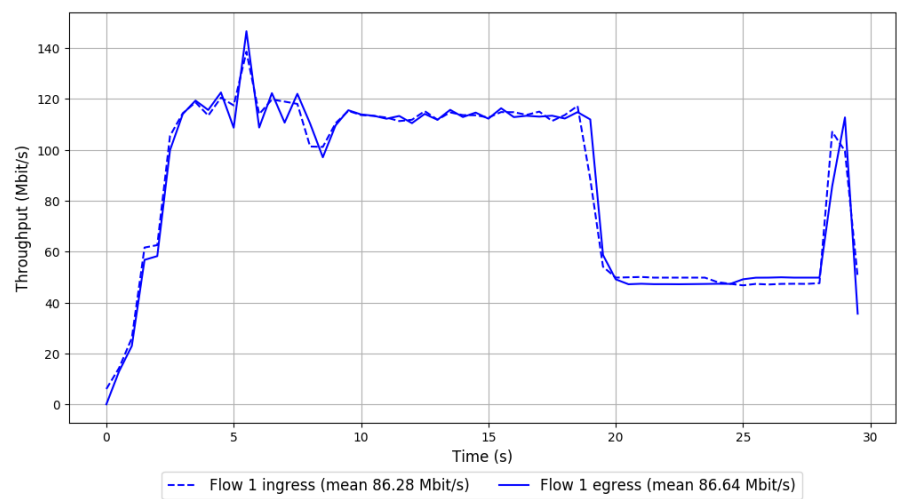


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-05 20:10:36
End at: 2018-03-05 20:11:06

# Below is generated by plot.py at 2018-03-05 23:21:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 110.012 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 86.64 Mbit/s
95th percentile per-packet one-way delay: 110.012 ms
Loss rate: 0.48%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-05 17:56:01

End at: 2018-03-05 17:56:31

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.48 Mbit/s

95th percentile per-packet one-way delay: 108.230 ms

Loss rate: 0.79%

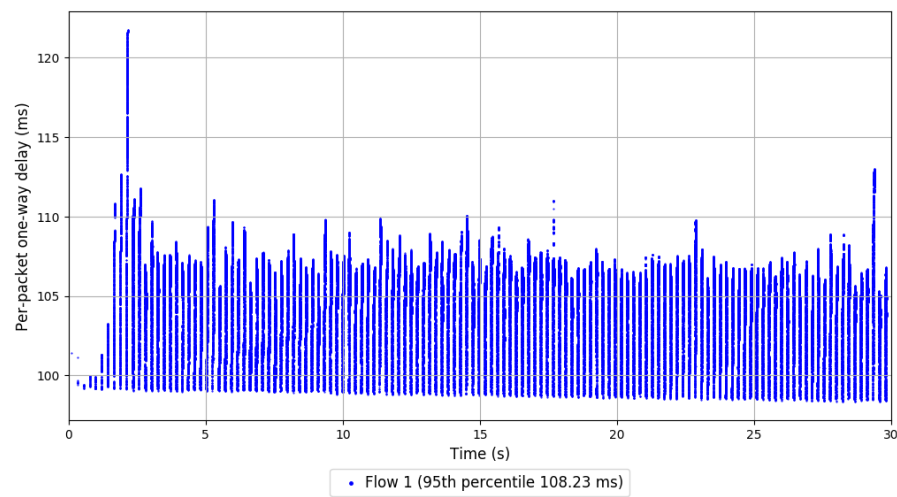
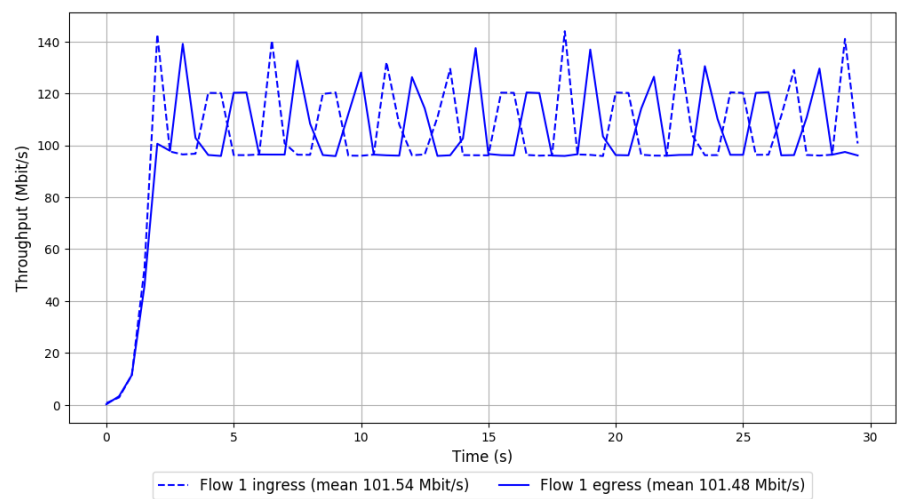
-- Flow 1:

Average throughput: 101.48 Mbit/s

95th percentile per-packet one-way delay: 108.230 ms

Loss rate: 0.79%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-05 18:11:26

End at: 2018-03-05 18:11:56

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.70 Mbit/s

95th percentile per-packet one-way delay: 96.467 ms

Loss rate: 0.84%

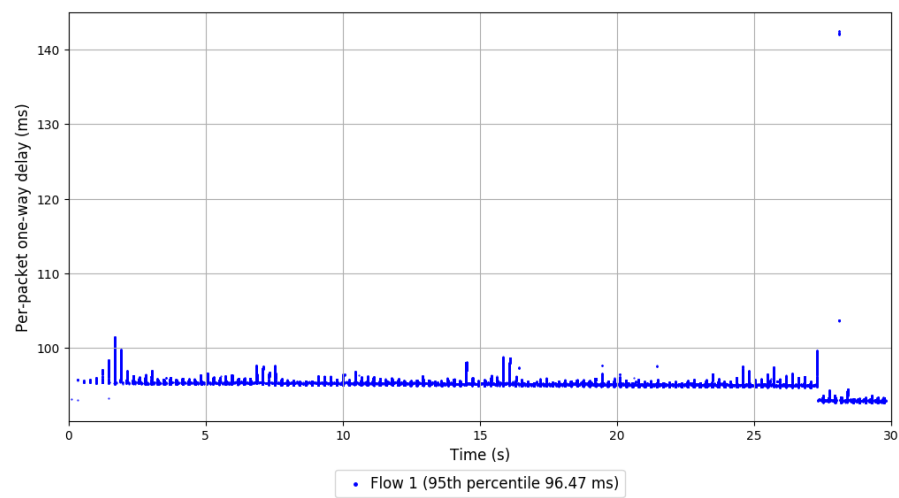
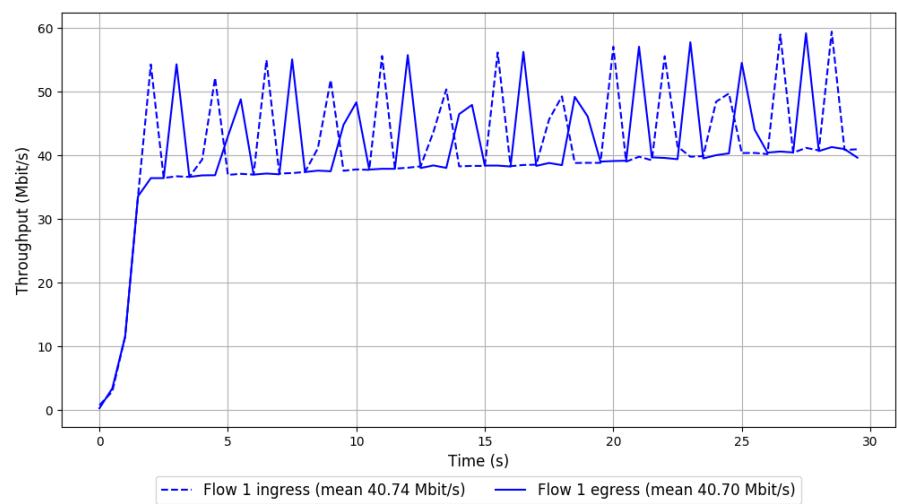
-- Flow 1:

Average throughput: 40.70 Mbit/s

95th percentile per-packet one-way delay: 96.467 ms

Loss rate: 0.84%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-05 18:27:09

End at: 2018-03-05 18:27:39

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.01 Mbit/s

95th percentile per-packet one-way delay: 105.274 ms

Loss rate: 0.80%

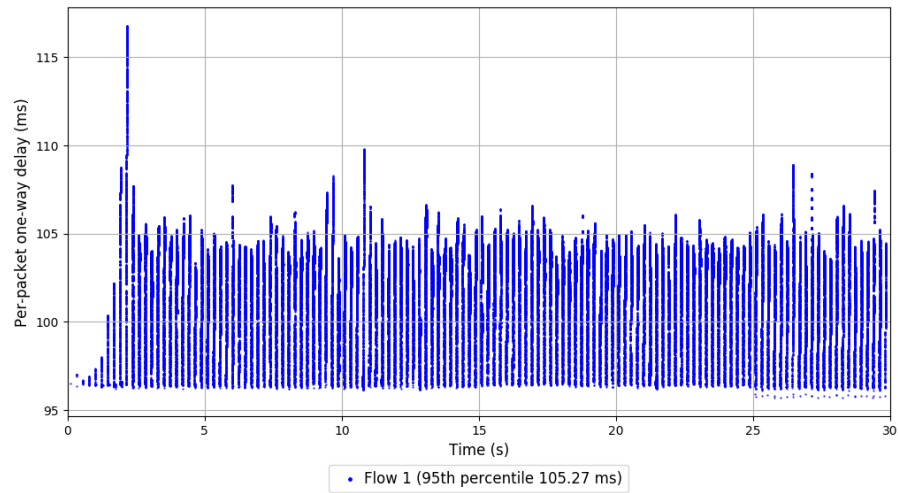
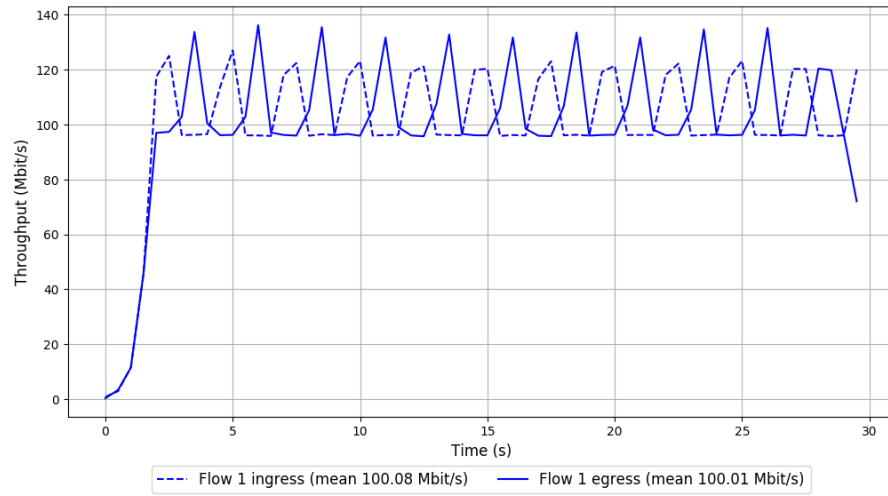
-- Flow 1:

Average throughput: 100.01 Mbit/s

95th percentile per-packet one-way delay: 105.274 ms

Loss rate: 0.80%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-05 18:43:22

End at: 2018-03-05 18:43:52

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.23 Mbit/s

95th percentile per-packet one-way delay: 94.718 ms

Loss rate: 0.80%

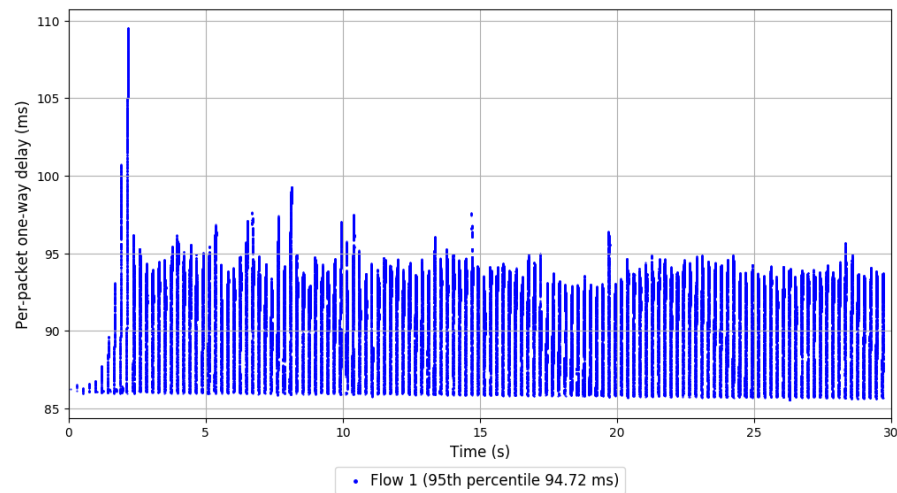
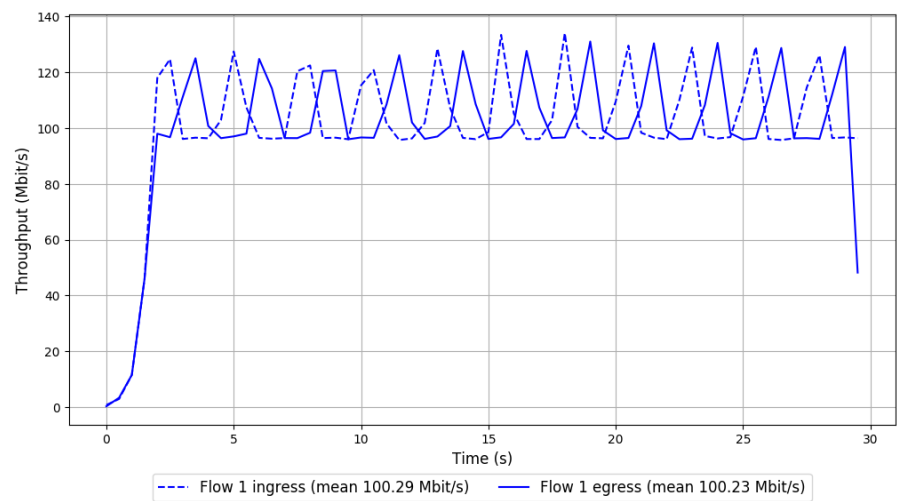
-- Flow 1:

Average throughput: 100.23 Mbit/s

95th percentile per-packet one-way delay: 94.718 ms

Loss rate: 0.80%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-05 19:00:08

End at: 2018-03-05 19:00:38

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.71 Mbit/s

95th percentile per-packet one-way delay: 99.864 ms

Loss rate: 0.78%

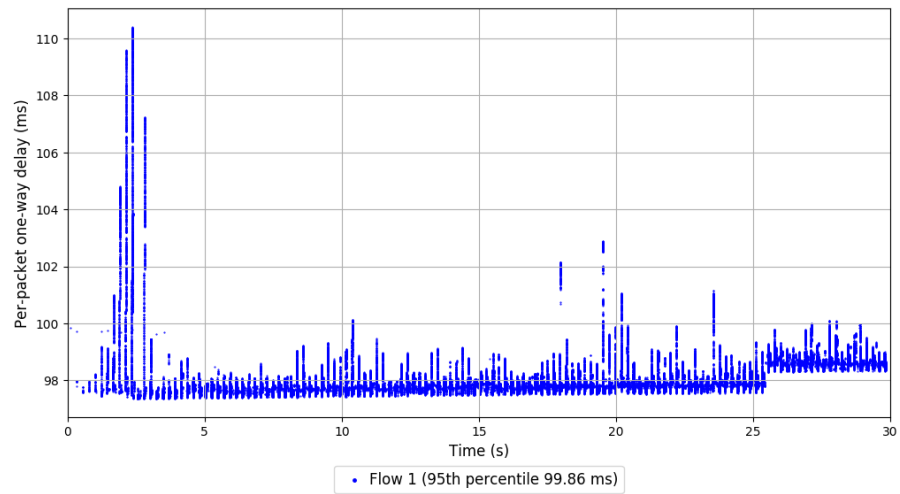
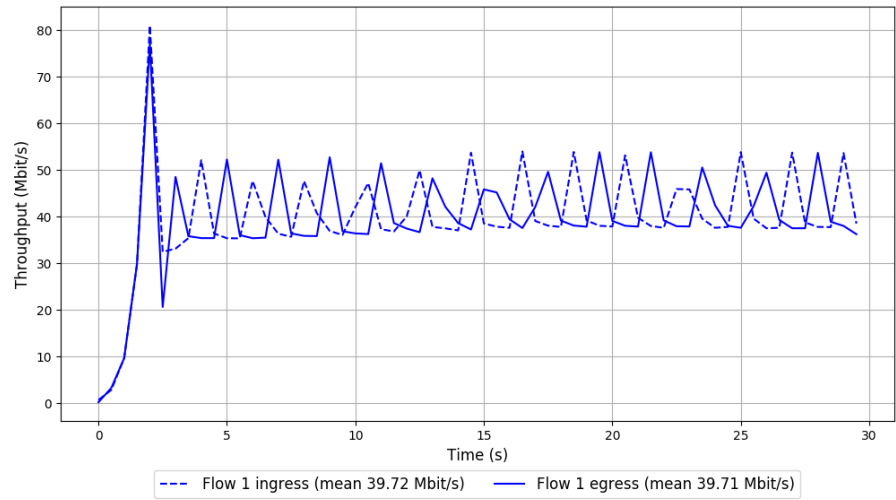
-- Flow 1:

Average throughput: 39.71 Mbit/s

95th percentile per-packet one-way delay: 99.864 ms

Loss rate: 0.78%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-05 19:15:35

End at: 2018-03-05 19:16:05

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.30 Mbit/s

95th percentile per-packet one-way delay: 107.144 ms

Loss rate: 0.80%

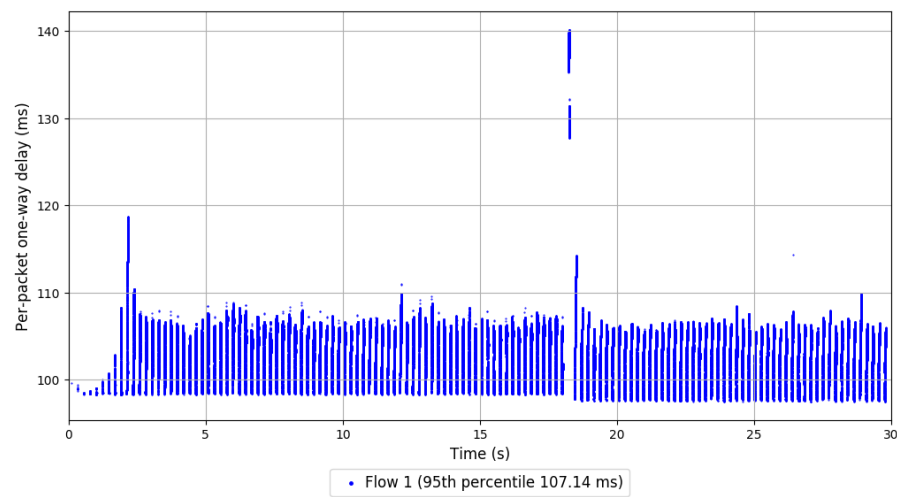
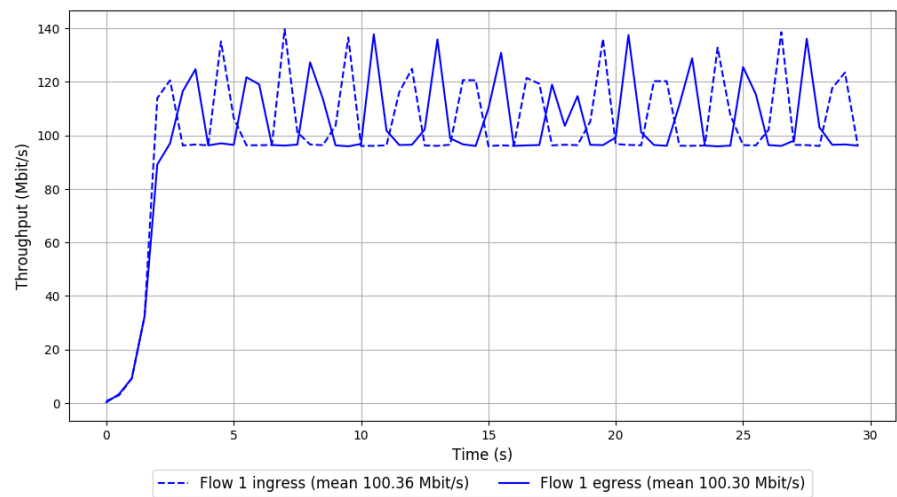
-- Flow 1:

Average throughput: 100.30 Mbit/s

95th percentile per-packet one-way delay: 107.144 ms

Loss rate: 0.80%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-05 19:30:58

End at: 2018-03-05 19:31:28

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 105.926 ms

Loss rate: 0.80%

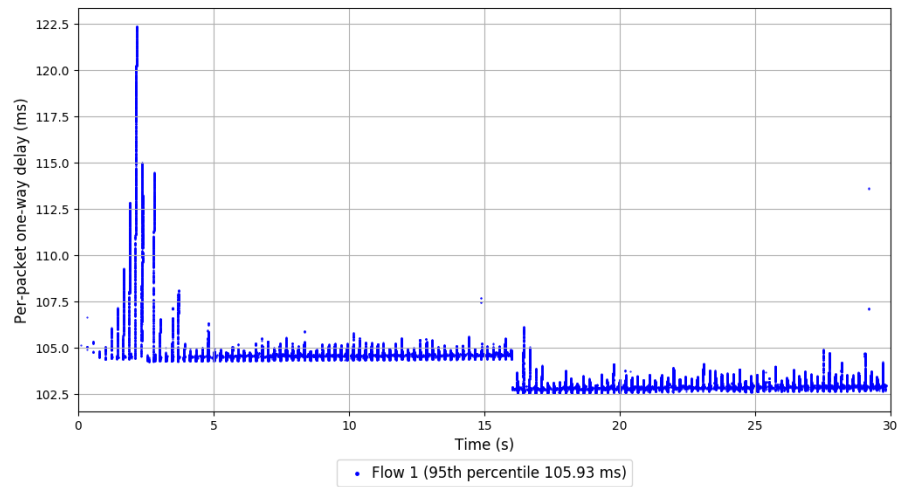
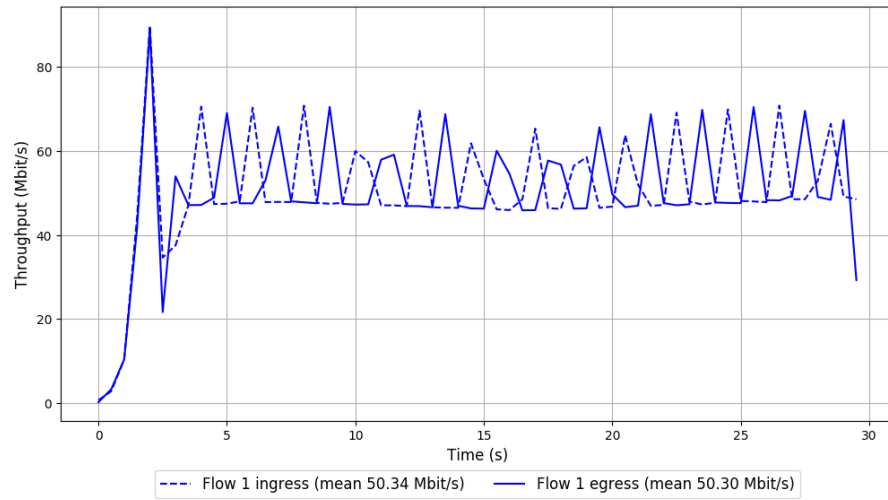
-- Flow 1:

Average throughput: 50.30 Mbit/s

95th percentile per-packet one-way delay: 105.926 ms

Loss rate: 0.80%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-05 19:46:26

End at: 2018-03-05 19:46:56

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 113.041 ms

Loss rate: 0.78%

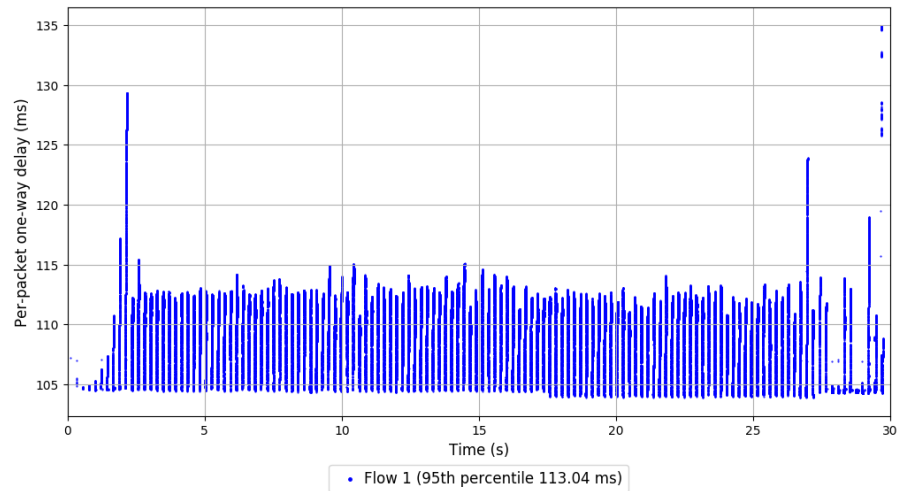
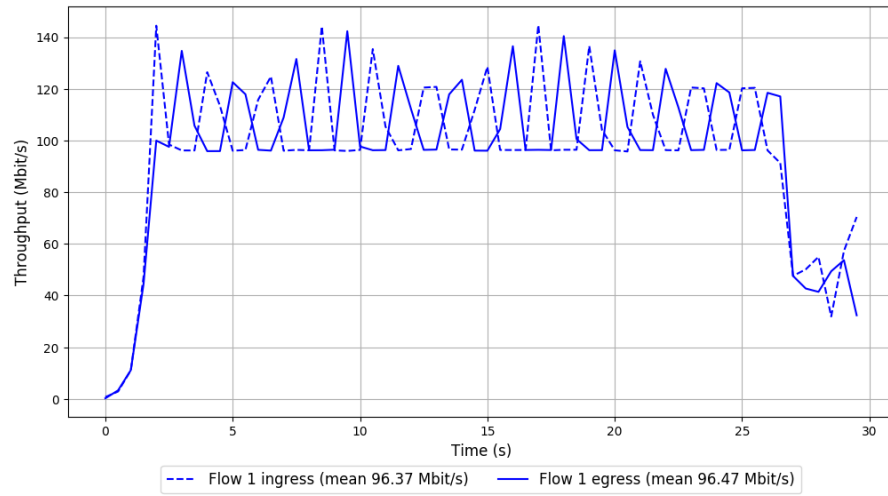
-- Flow 1:

Average throughput: 96.47 Mbit/s

95th percentile per-packet one-way delay: 113.041 ms

Loss rate: 0.78%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-05 20:01:41

End at: 2018-03-05 20:02:11

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.21 Mbit/s

95th percentile per-packet one-way delay: 113.647 ms

Loss rate: 0.79%

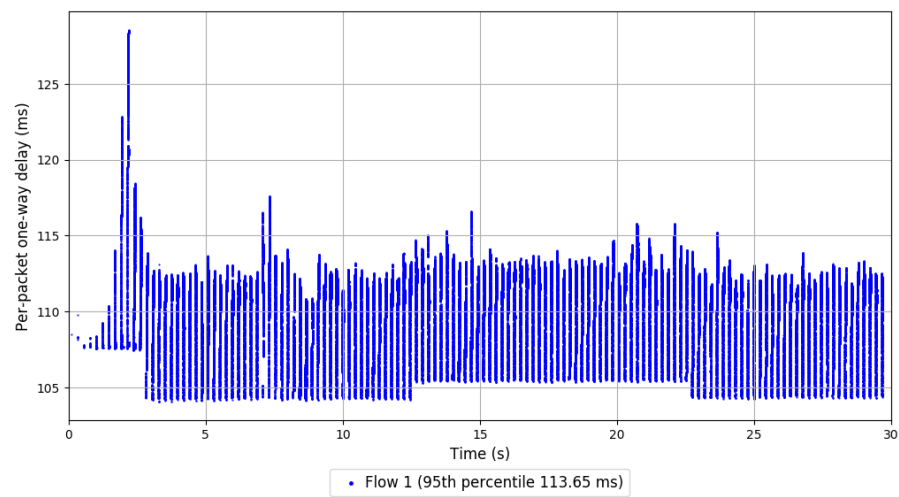
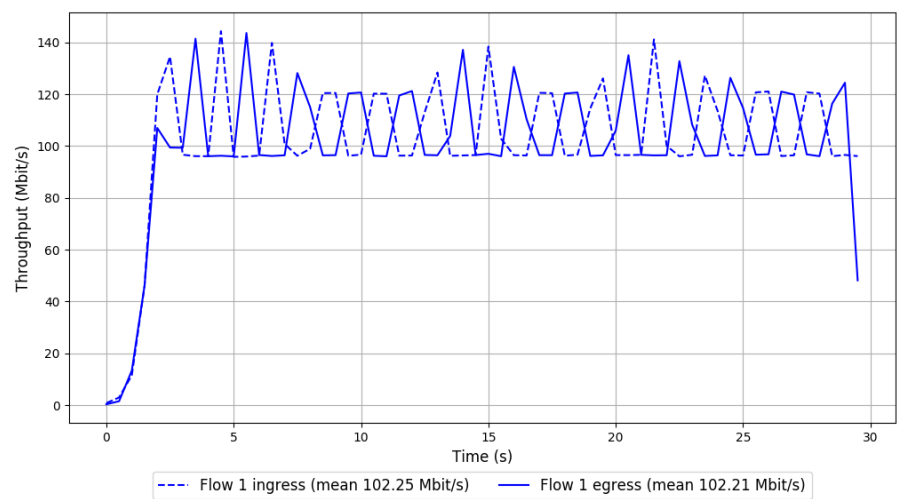
-- Flow 1:

Average throughput: 102.21 Mbit/s

95th percentile per-packet one-way delay: 113.647 ms

Loss rate: 0.79%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-05 20:17:22

End at: 2018-03-05 20:17:52

Below is generated by plot.py at 2018-03-05 23:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 112.483 ms

Loss rate: 0.67%

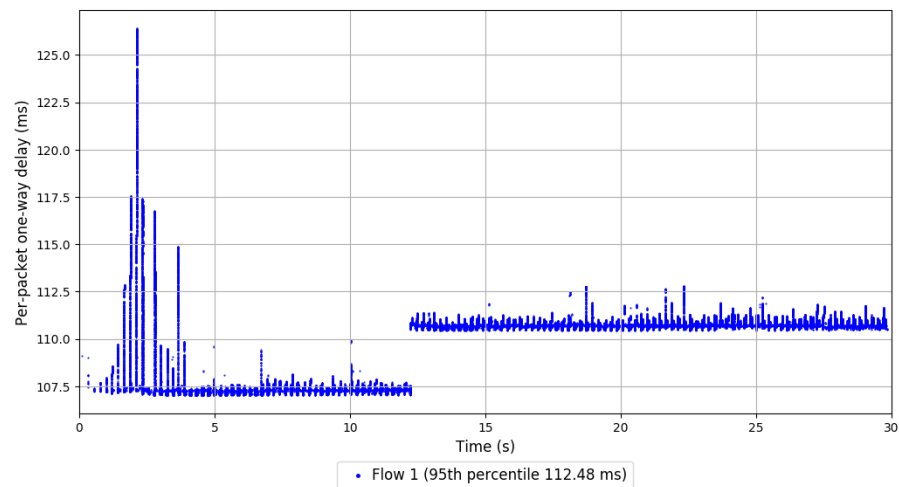
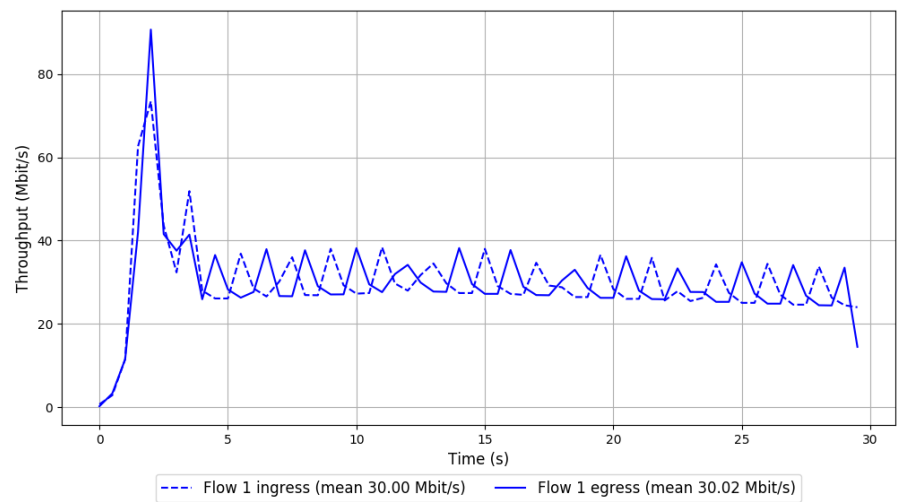
-- Flow 1:

Average throughput: 30.02 Mbit/s

95th percentile per-packet one-way delay: 112.483 ms

Loss rate: 0.67%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-05 17:52:08

End at: 2018-03-05 17:52:38

Below is generated by plot.py at 2018-03-05 23:23:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.56 Mbit/s

95th percentile per-packet one-way delay: 282.360 ms

Loss rate: 2.29%

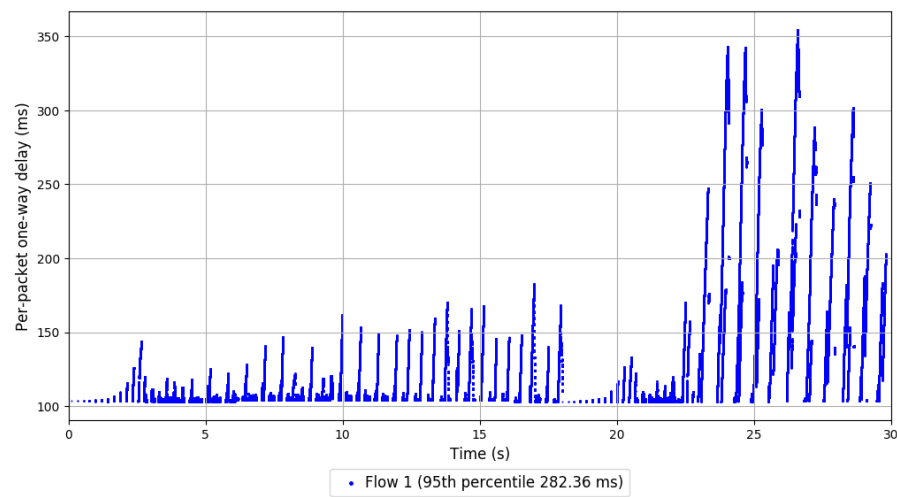
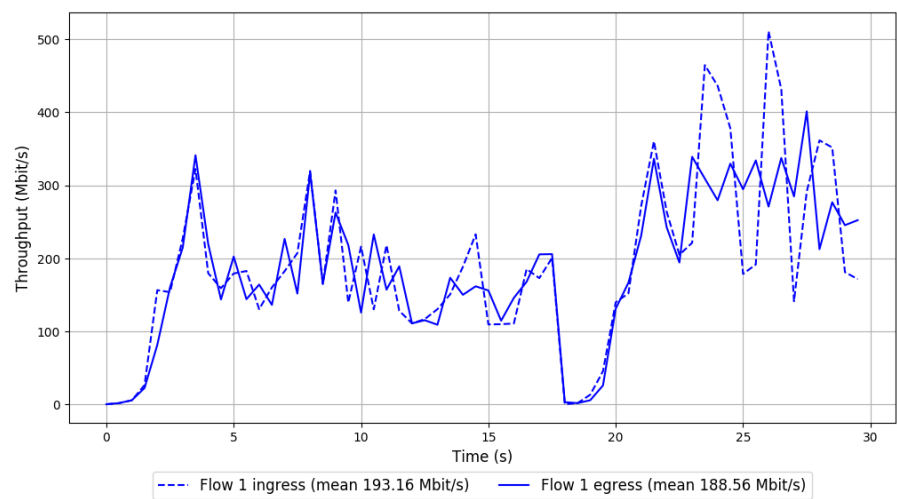
-- Flow 1:

Average throughput: 188.56 Mbit/s

95th percentile per-packet one-way delay: 282.360 ms

Loss rate: 2.29%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-05 18:08:01

End at: 2018-03-05 18:08:31

Below is generated by plot.py at 2018-03-05 23:23:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.79 Mbit/s

95th percentile per-packet one-way delay: 124.995 ms

Loss rate: 0.00%

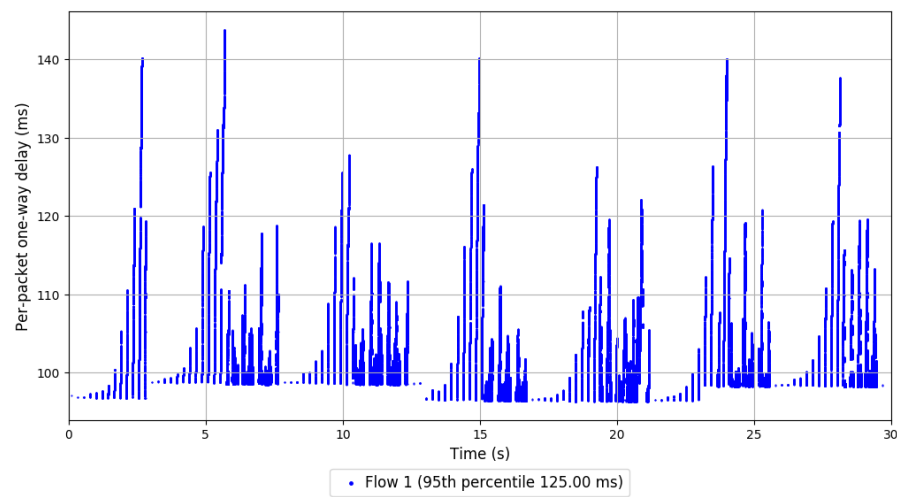
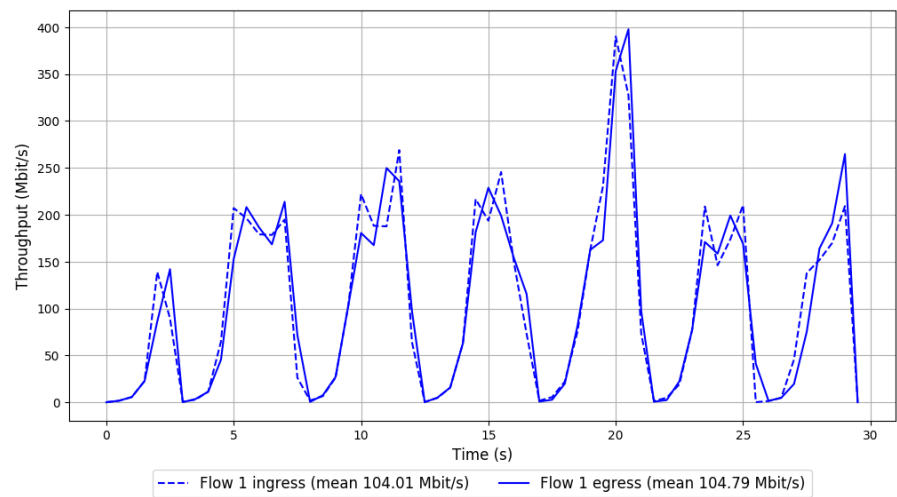
-- Flow 1:

Average throughput: 104.79 Mbit/s

95th percentile per-packet one-way delay: 124.995 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-05 18:23:35

End at: 2018-03-05 18:24:05

Below is generated by plot.py at 2018-03-05 23:24:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.95 Mbit/s

95th percentile per-packet one-way delay: 141.936 ms

Loss rate: 0.82%

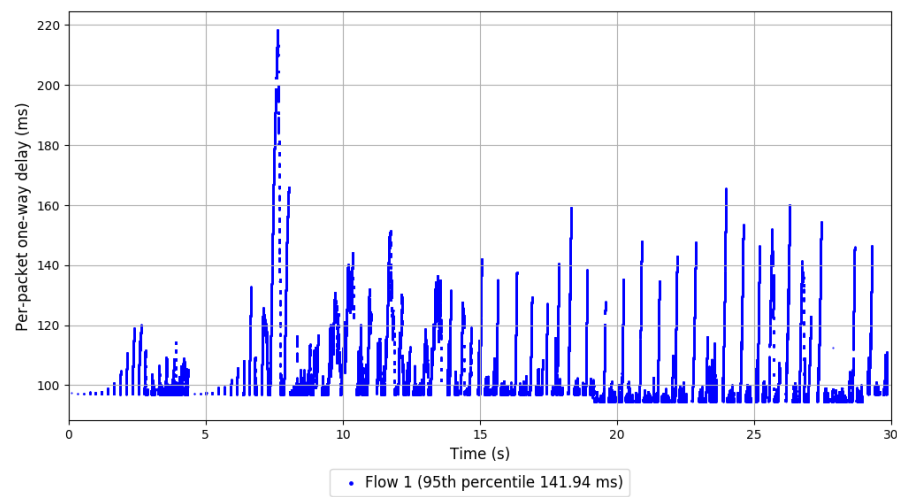
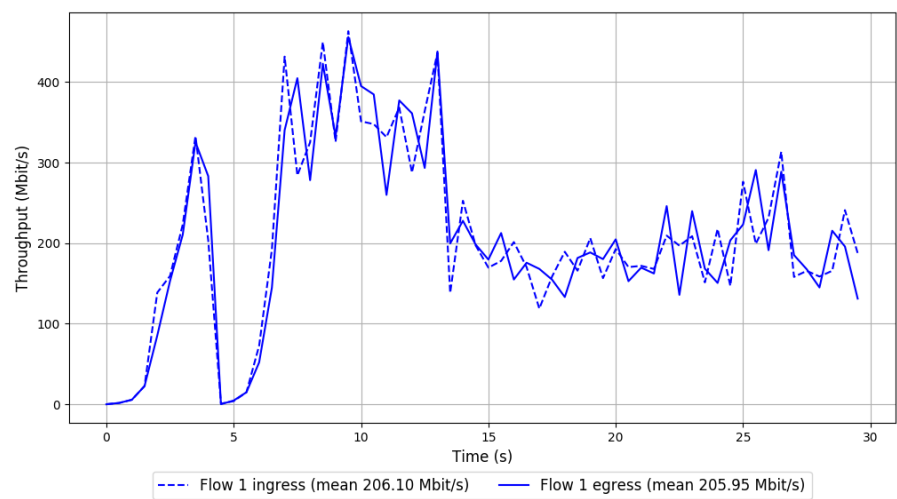
-- Flow 1:

Average throughput: 205.95 Mbit/s

95th percentile per-packet one-way delay: 141.936 ms

Loss rate: 0.82%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-05 18:39:59

End at: 2018-03-05 18:40:29

Below is generated by plot.py at 2018-03-05 23:24:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 107.827 ms

Loss rate: 0.26%

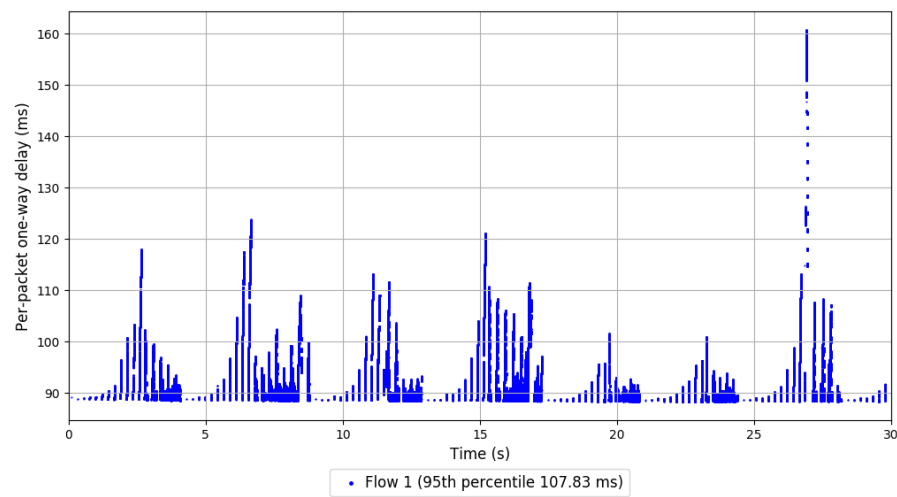
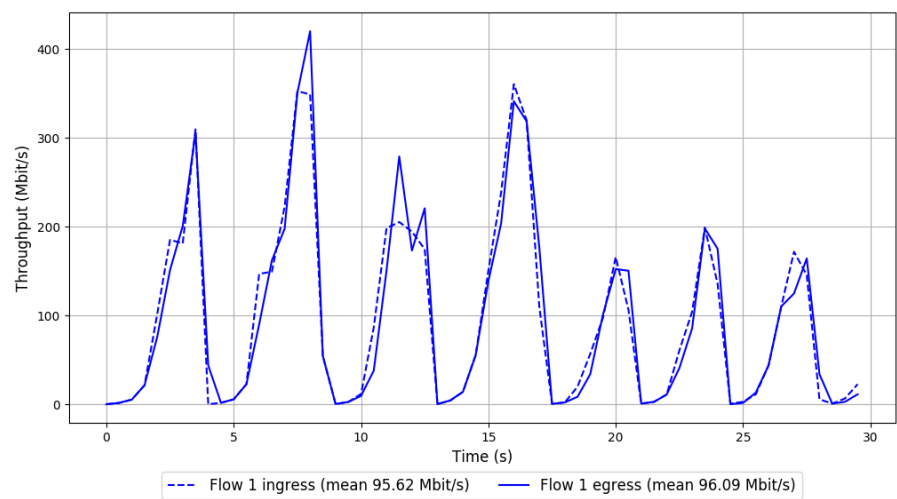
-- Flow 1:

Average throughput: 96.09 Mbit/s

95th percentile per-packet one-way delay: 107.827 ms

Loss rate: 0.26%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-05 18:56:39

End at: 2018-03-05 18:57:09

Below is generated by plot.py at 2018-03-05 23:24:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.22 Mbit/s

95th percentile per-packet one-way delay: 264.514 ms

Loss rate: 1.41%

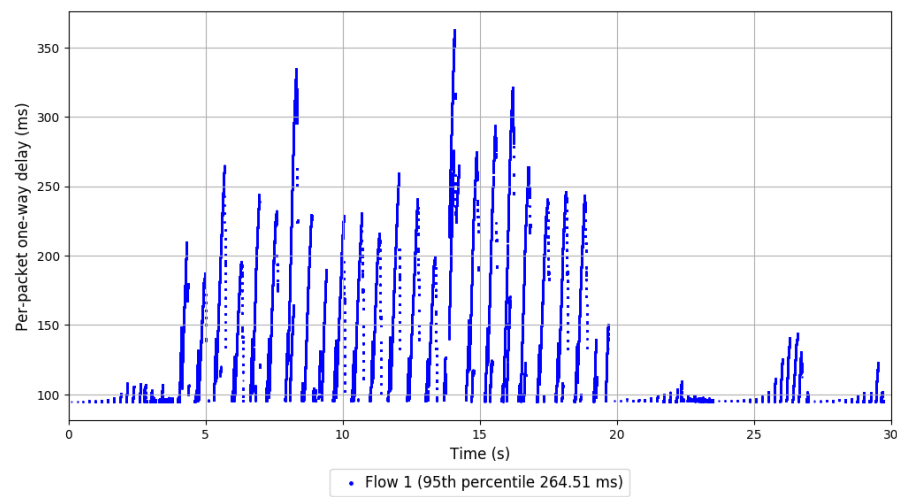
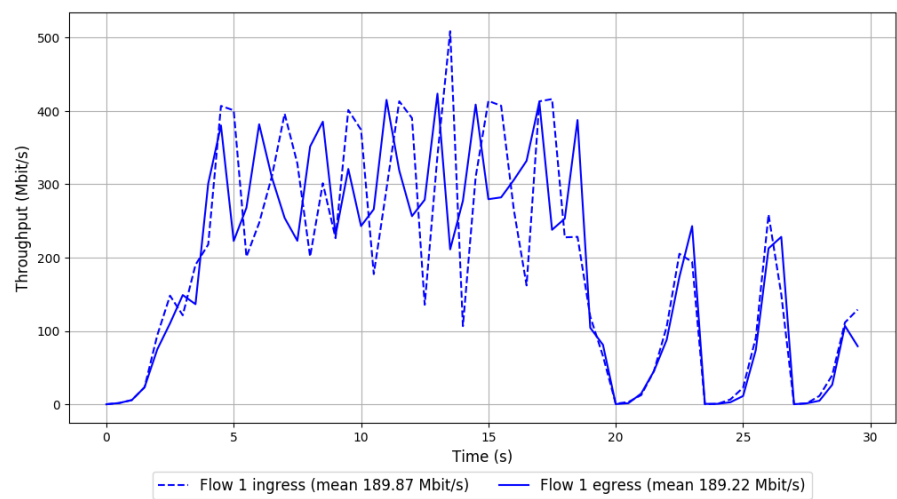
-- Flow 1:

Average throughput: 189.22 Mbit/s

95th percentile per-packet one-way delay: 264.514 ms

Loss rate: 1.41%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-05 19:12:19

End at: 2018-03-05 19:12:49

Below is generated by plot.py at 2018-03-05 23:24:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.91 Mbit/s

95th percentile per-packet one-way delay: 129.894 ms

Loss rate: 0.70%

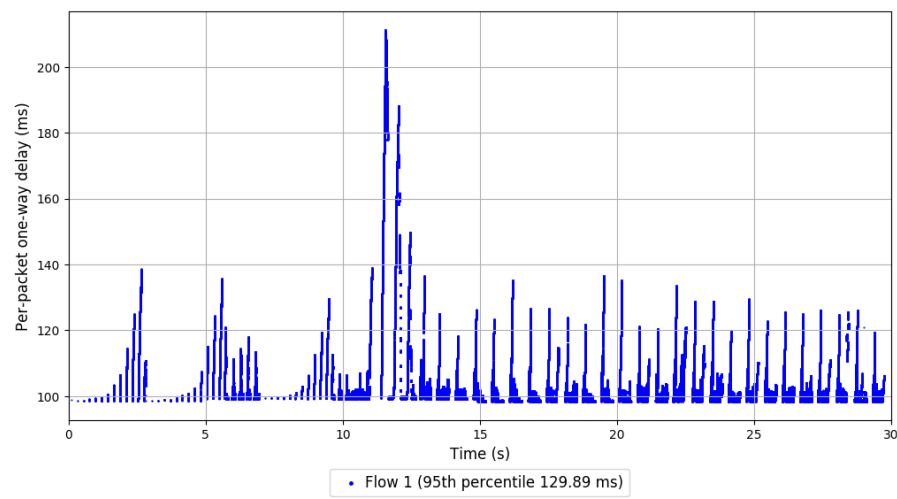
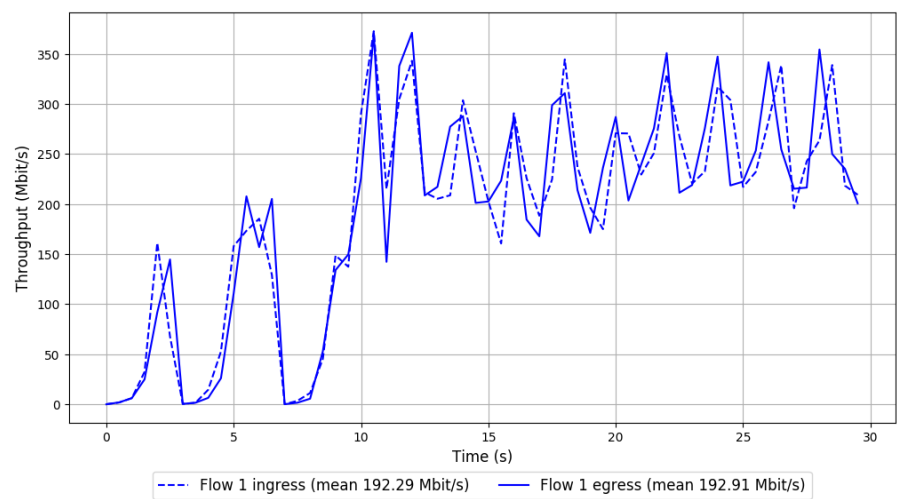
-- Flow 1:

Average throughput: 192.91 Mbit/s

95th percentile per-packet one-way delay: 129.894 ms

Loss rate: 0.70%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-05 19:27:47

End at: 2018-03-05 19:28:17

Below is generated by plot.py at 2018-03-05 23:24:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 118.004 ms

Loss rate: 0.26%

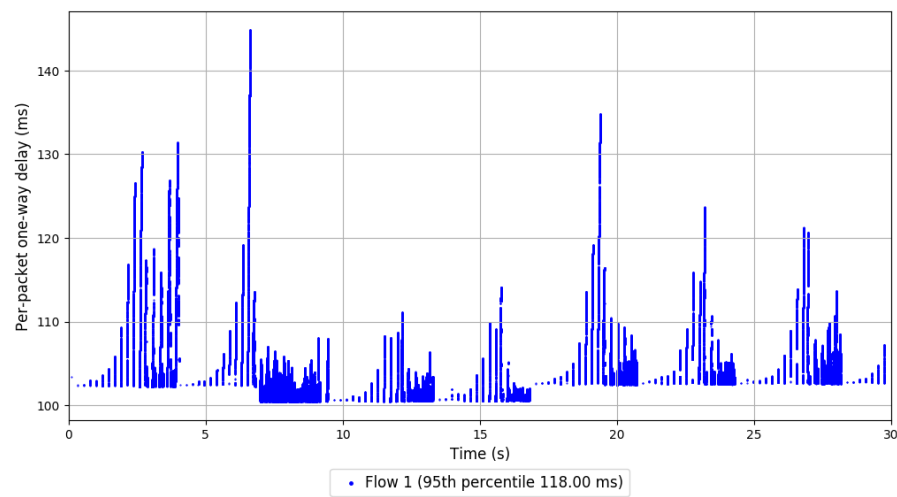
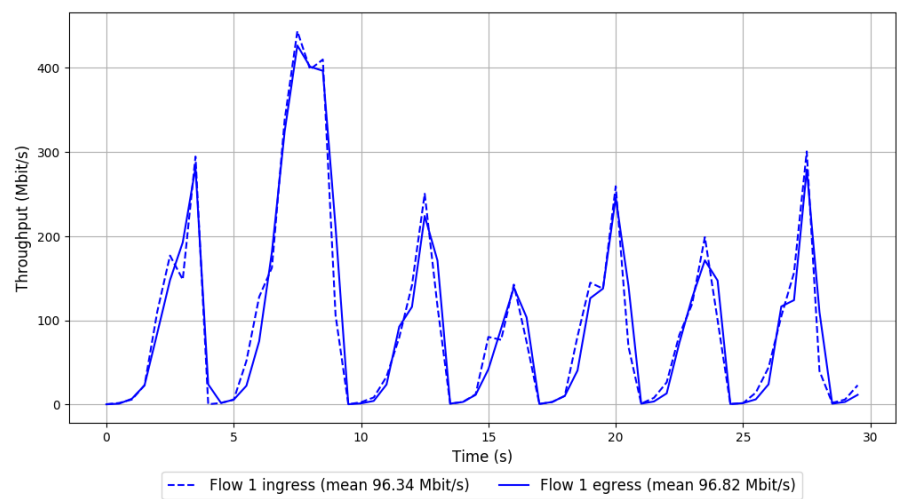
-- Flow 1:

Average throughput: 96.82 Mbit/s

95th percentile per-packet one-way delay: 118.004 ms

Loss rate: 0.26%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-05 19:42:57

End at: 2018-03-05 19:43:27

Below is generated by plot.py at 2018-03-05 23:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.43 Mbit/s

95th percentile per-packet one-way delay: 132.201 ms

Loss rate: 2.31%

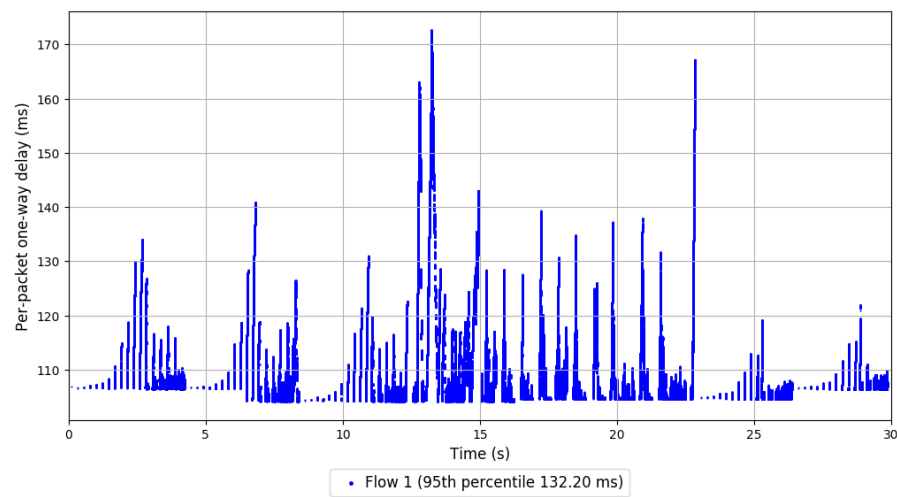
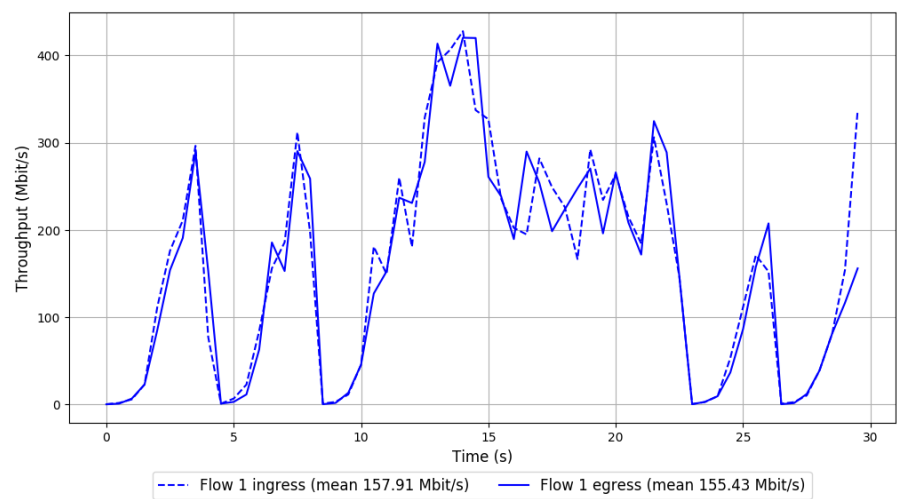
-- Flow 1:

Average throughput: 155.43 Mbit/s

95th percentile per-packet one-way delay: 132.201 ms

Loss rate: 2.31%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-05 19:58:24

End at: 2018-03-05 19:58:54

Below is generated by plot.py at 2018-03-05 23:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.26 Mbit/s

95th percentile per-packet one-way delay: 124.064 ms

Loss rate: 0.35%

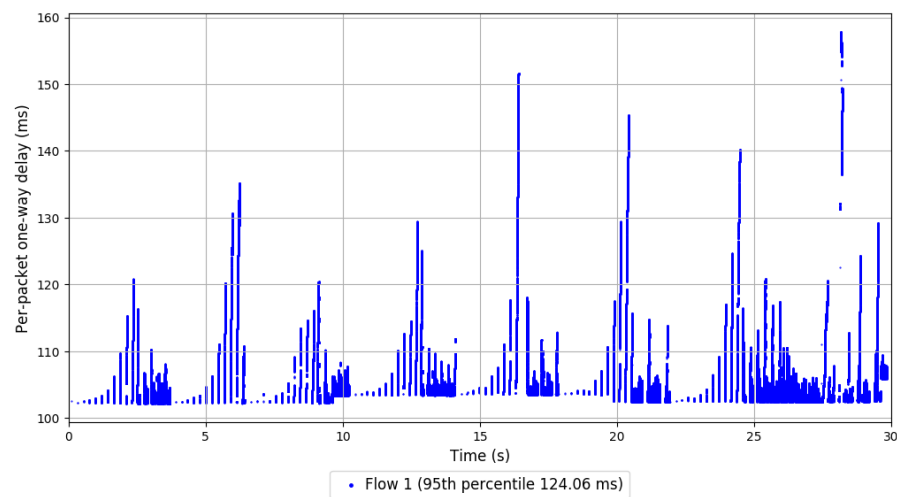
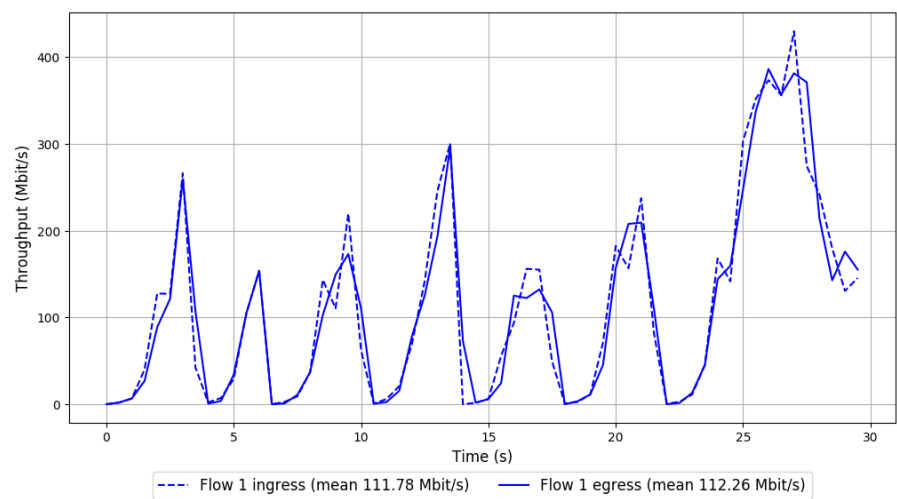
-- Flow 1:

Average throughput: 112.26 Mbit/s

95th percentile per-packet one-way delay: 124.064 ms

Loss rate: 0.35%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-05 20:13:53

End at: 2018-03-05 20:14:23

Below is generated by plot.py at 2018-03-05 23:24:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.72 Mbit/s

95th percentile per-packet one-way delay: 136.957 ms

Loss rate: 1.09%

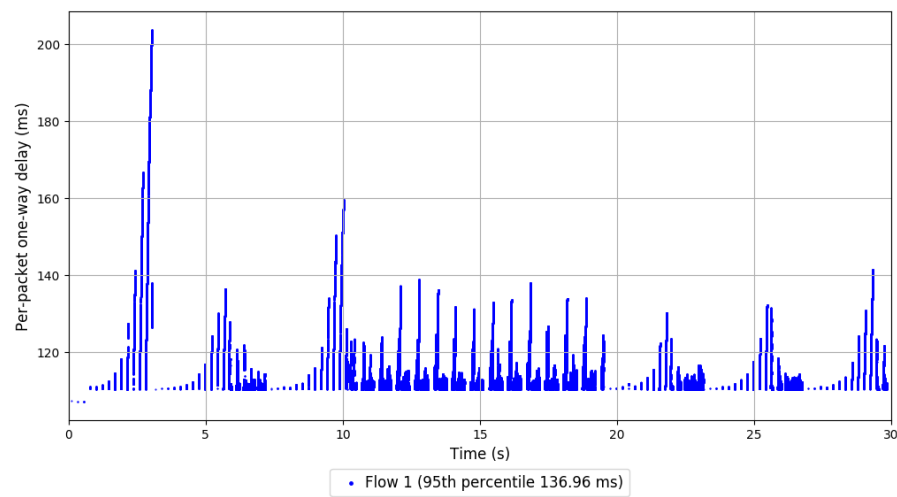
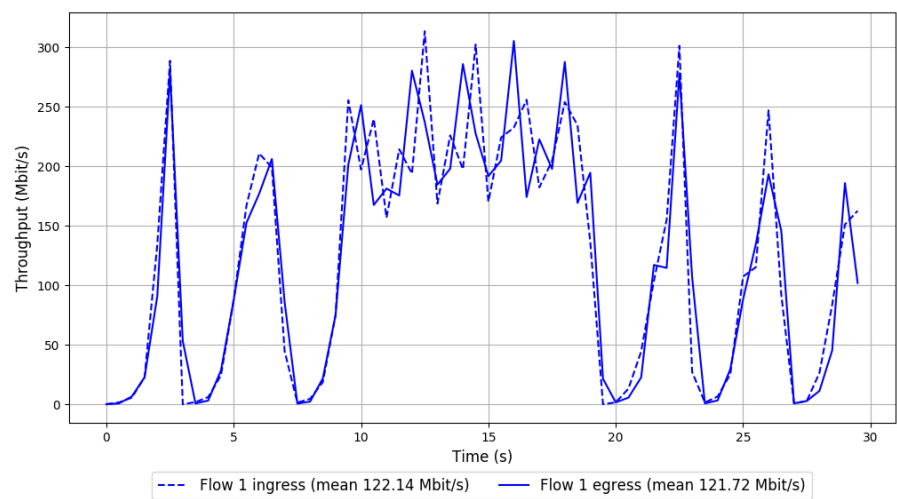
-- Flow 1:

Average throughput: 121.72 Mbit/s

95th percentile per-packet one-way delay: 136.957 ms

Loss rate: 1.09%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-05 17:54:03

End at: 2018-03-05 17:54:33

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 422.42 Mbit/s

95th percentile per-packet one-way delay: 297.221 ms

Loss rate: 30.60%

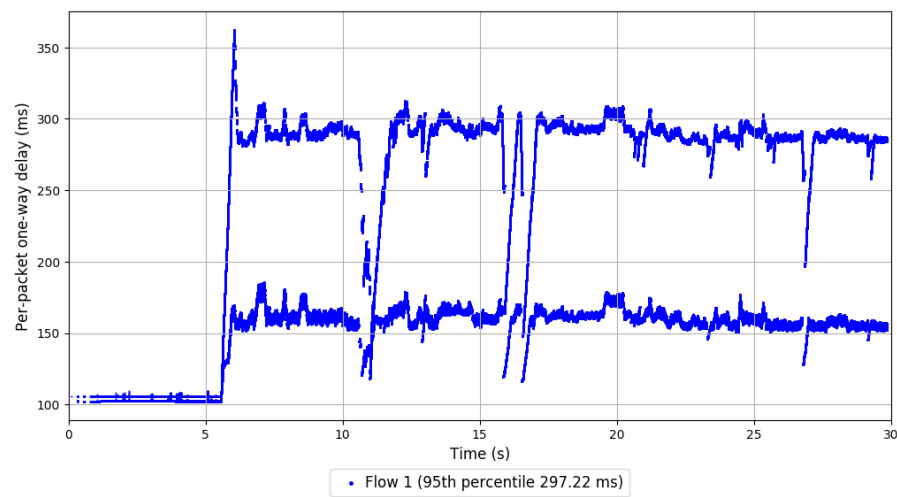
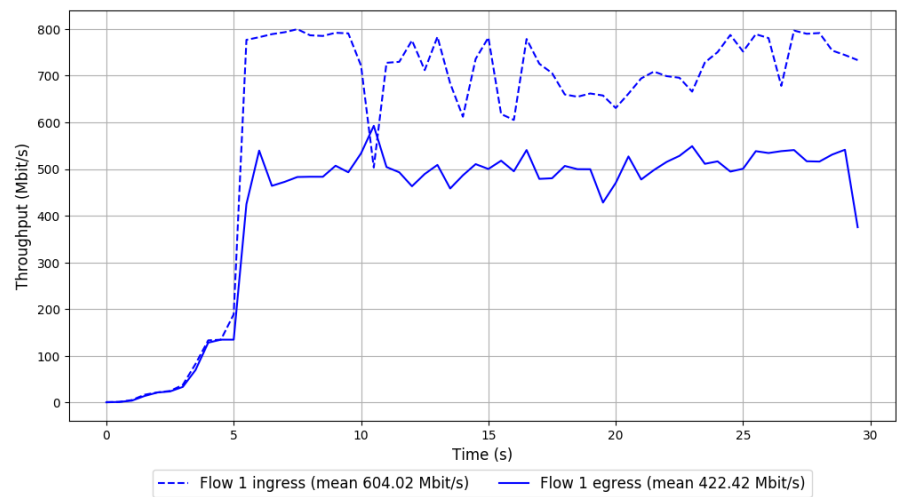
-- Flow 1:

Average throughput: 422.42 Mbit/s

95th percentile per-packet one-way delay: 297.221 ms

Loss rate: 30.60%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-05 18:09:56

End at: 2018-03-05 18:10:26

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 96.756 ms

Loss rate: 0.66%

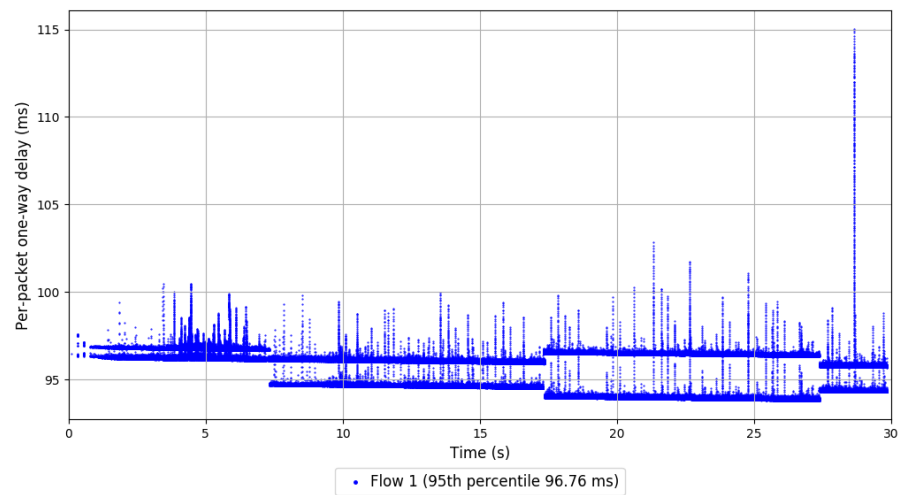
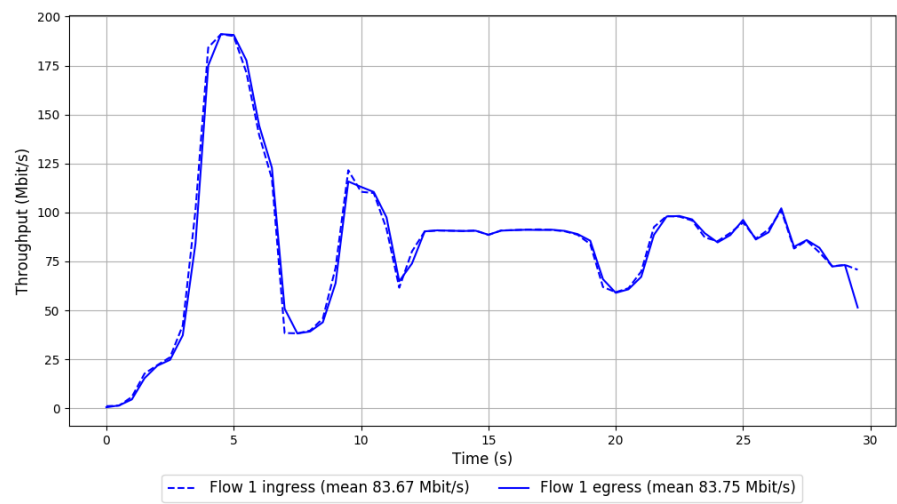
-- Flow 1:

Average throughput: 83.75 Mbit/s

95th percentile per-packet one-way delay: 96.756 ms

Loss rate: 0.66%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-05 18:25:38

End at: 2018-03-05 18:26:08

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 96.763 ms

Loss rate: 0.76%

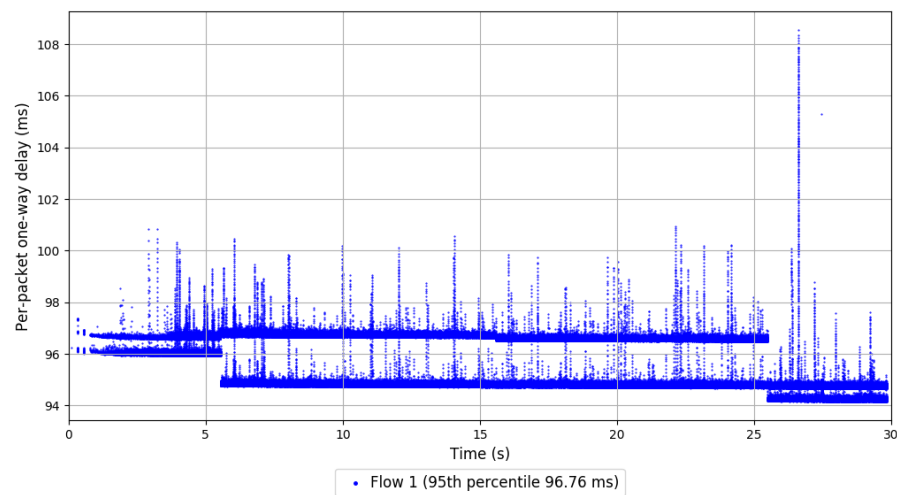
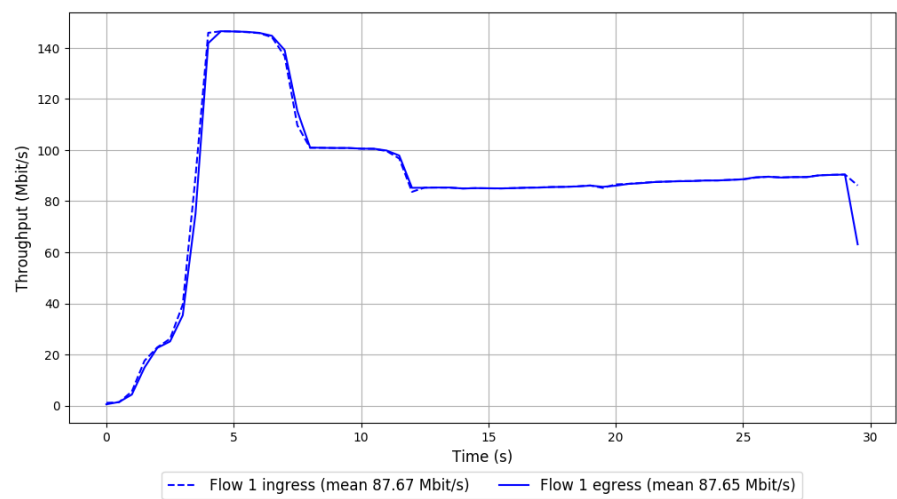
-- Flow 1:

Average throughput: 87.65 Mbit/s

95th percentile per-packet one-way delay: 96.763 ms

Loss rate: 0.76%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-05 18:41:54

End at: 2018-03-05 18:42:24

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 87.180 ms

Loss rate: 0.16%

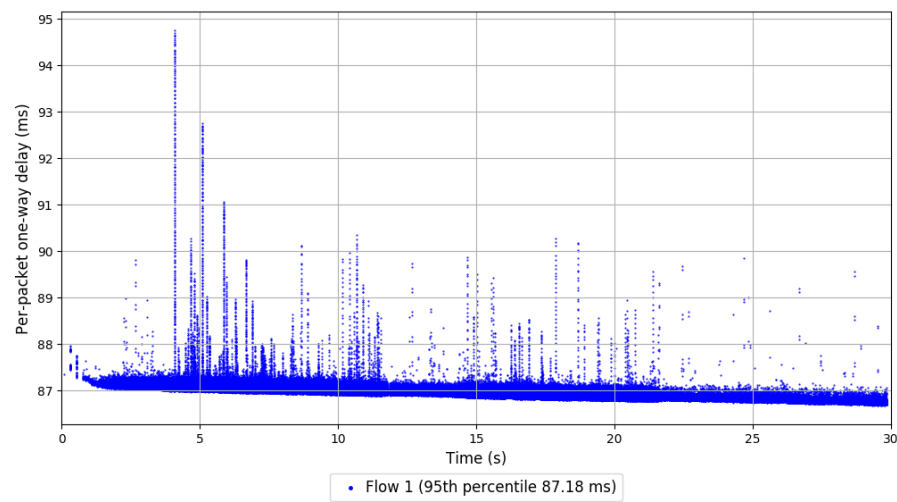
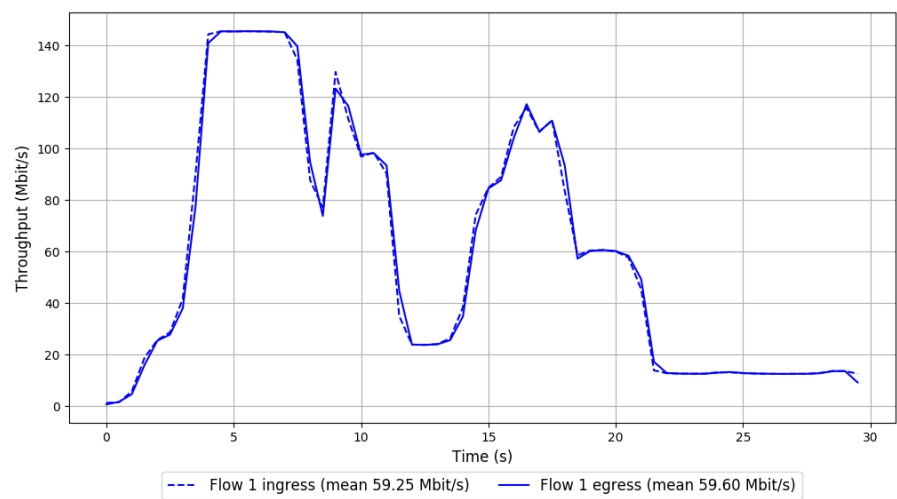
-- Flow 1:

Average throughput: 59.60 Mbit/s

95th percentile per-packet one-way delay: 87.180 ms

Loss rate: 0.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-05 18:58:39

End at: 2018-03-05 18:59:09

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 98.409 ms

Loss rate: 0.50%

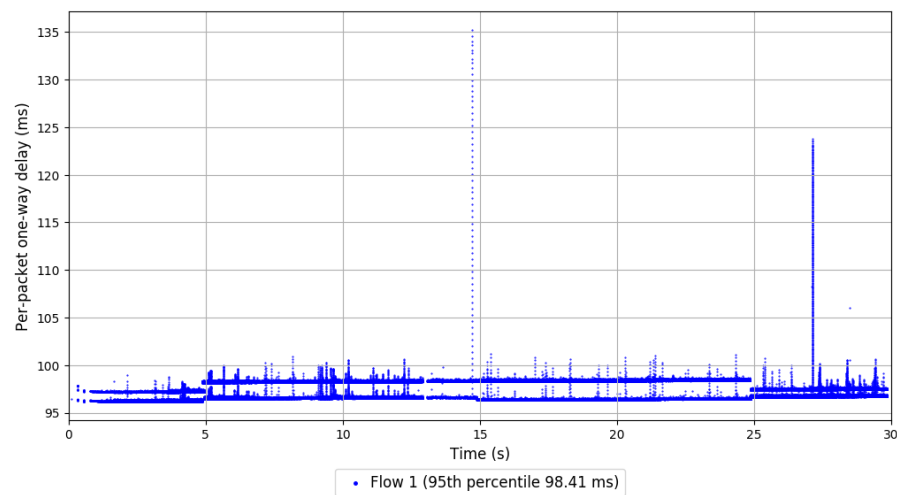
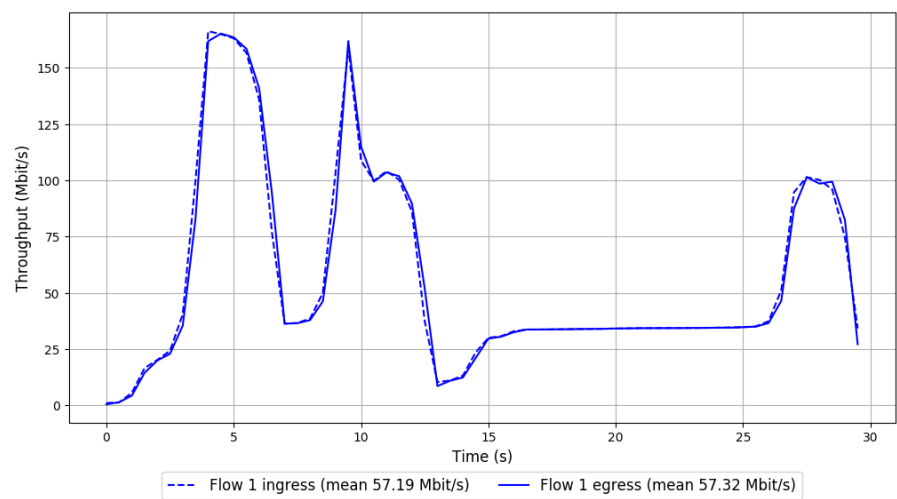
-- Flow 1:

Average throughput: 57.32 Mbit/s

95th percentile per-packet one-way delay: 98.409 ms

Loss rate: 0.50%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-05 19:14:07

End at: 2018-03-05 19:14:37

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.18 Mbit/s

95th percentile per-packet one-way delay: 99.900 ms

Loss rate: 0.10%

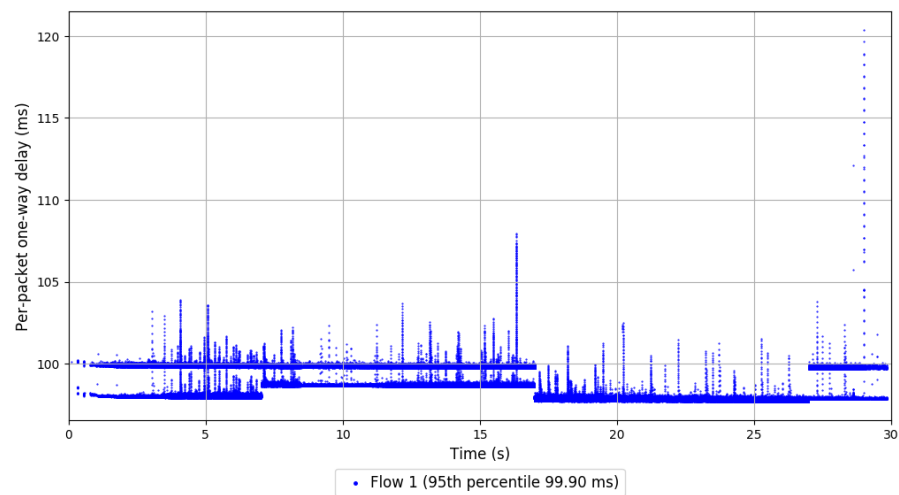
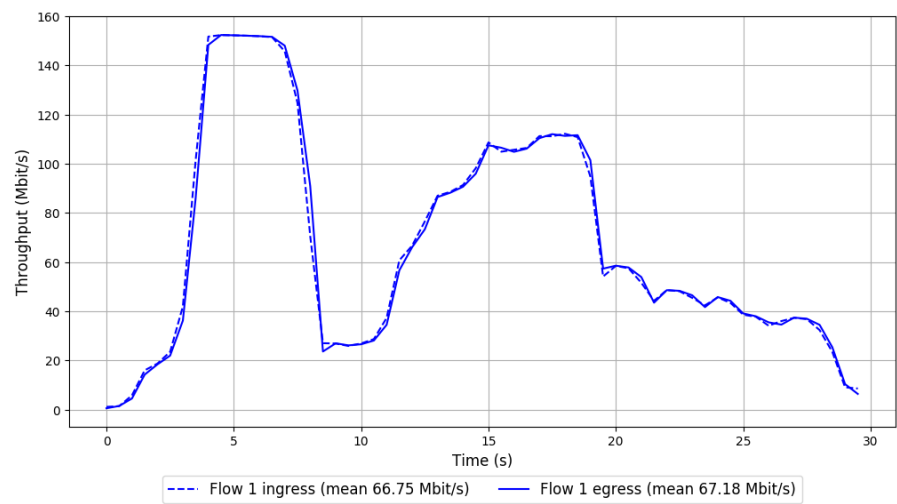
-- Flow 1:

Average throughput: 67.18 Mbit/s

95th percentile per-packet one-way delay: 99.900 ms

Loss rate: 0.10%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-05 19:29:31

End at: 2018-03-05 19:30:01

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.82 Mbit/s

95th percentile per-packet one-way delay: 103.740 ms

Loss rate: 0.24%

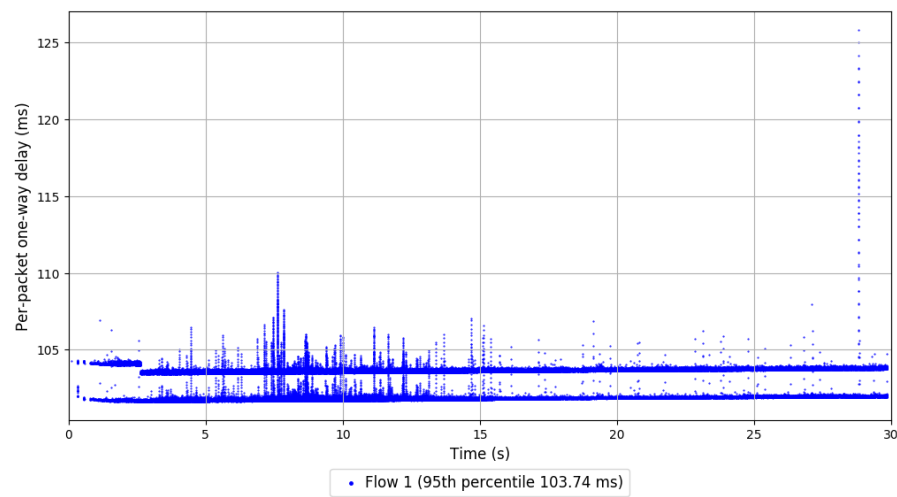
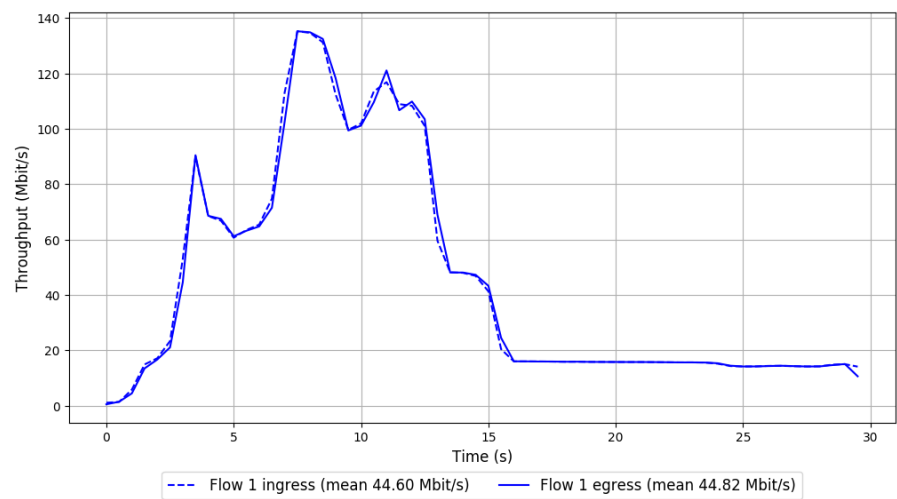
-- Flow 1:

Average throughput: 44.82 Mbit/s

95th percentile per-packet one-way delay: 103.740 ms

Loss rate: 0.24%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-05 19:44:56

End at: 2018-03-05 19:45:26

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 106.020 ms

Loss rate: 0.26%

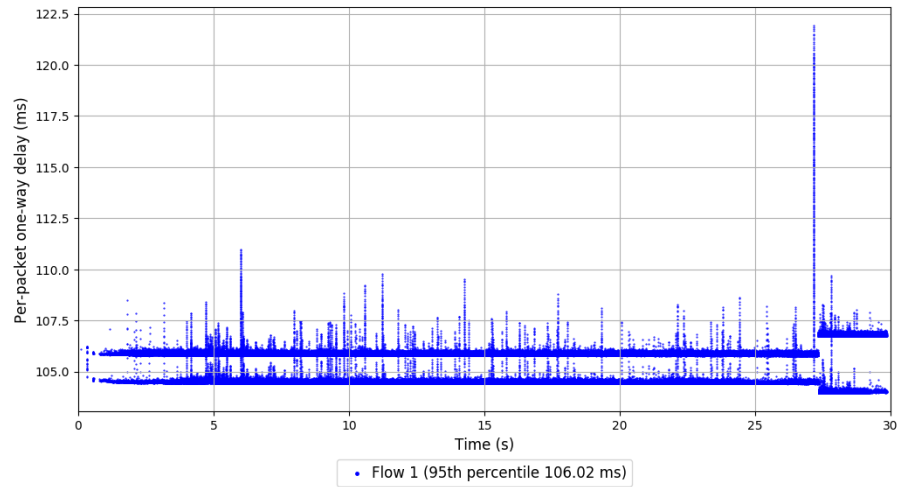
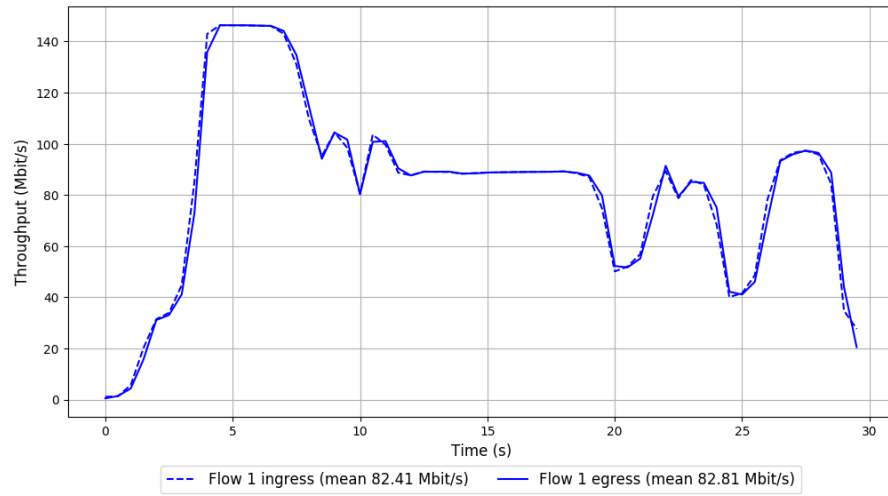
-- Flow 1:

Average throughput: 82.81 Mbit/s

95th percentile per-packet one-way delay: 106.020 ms

Loss rate: 0.26%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-05 20:00:13

End at: 2018-03-05 20:00:43

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 105.833 ms

Loss rate: 1.14%

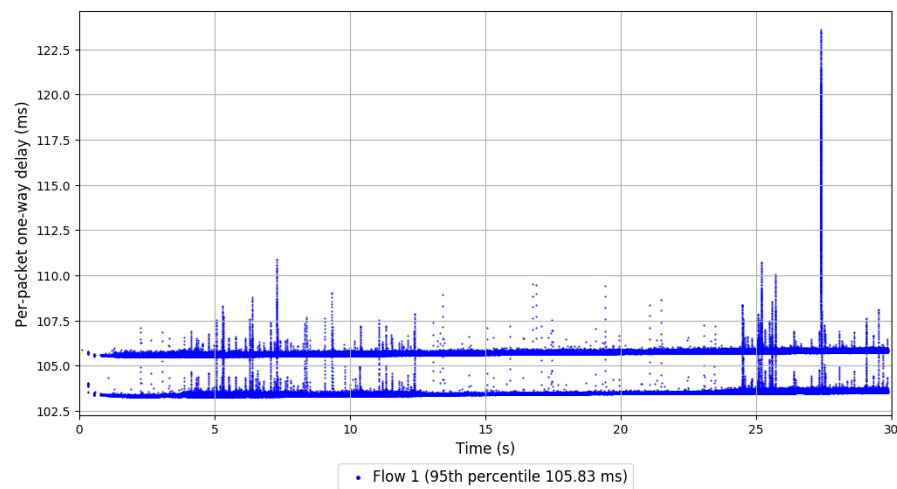
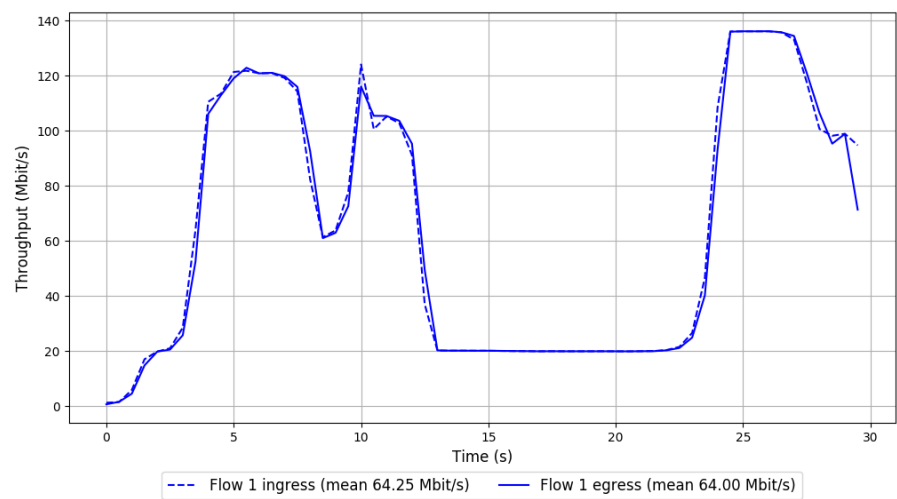
-- Flow 1:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 105.833 ms

Loss rate: 1.14%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-05 20:15:52

End at: 2018-03-05 20:16:22

Below is generated by plot.py at 2018-03-05 23:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 110.446 ms

Loss rate: 0.89%

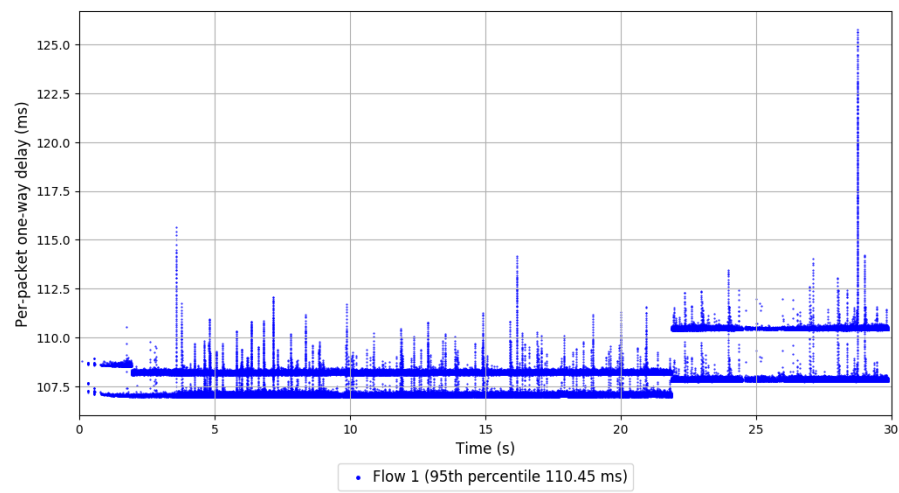
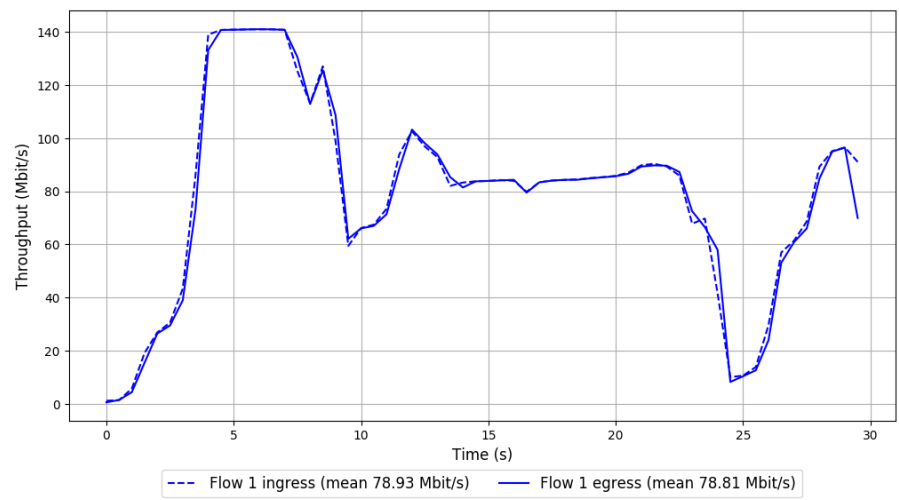
-- Flow 1:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 110.446 ms

Loss rate: 0.89%

Run 10: Report of Copa — Data Link

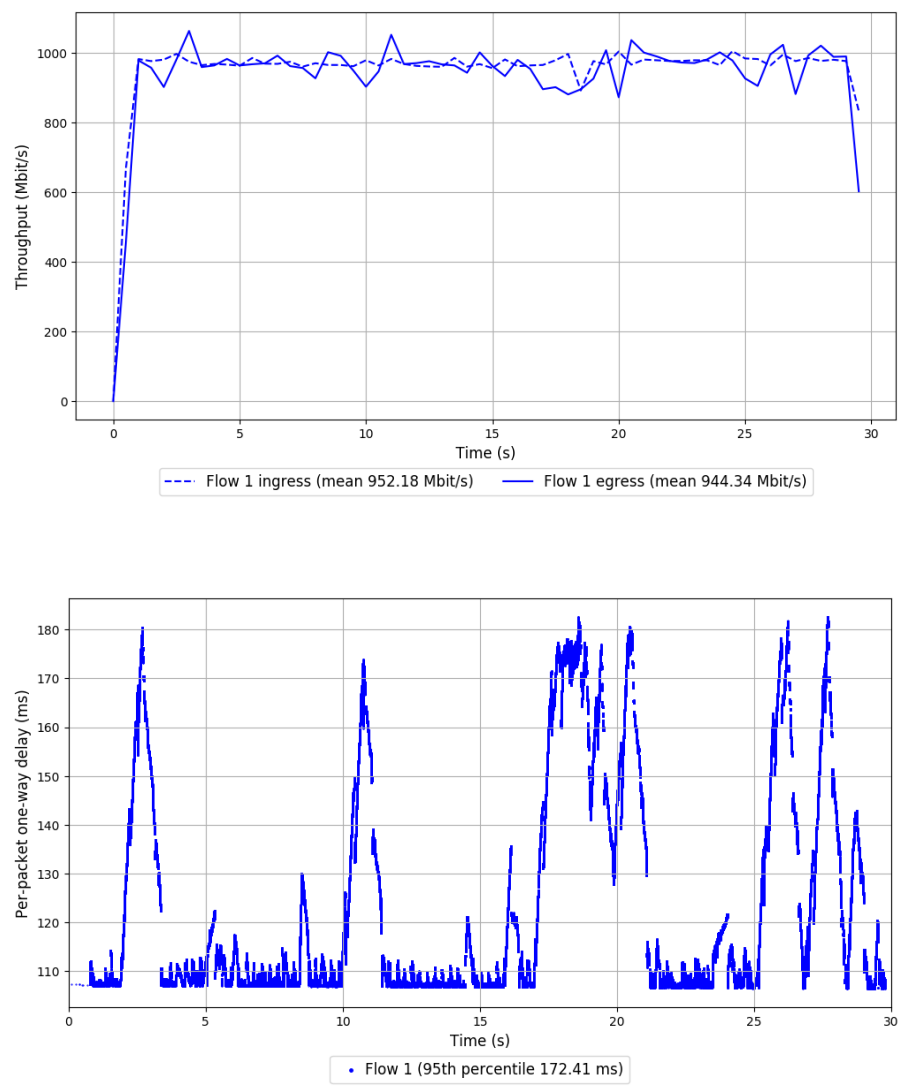


```
Run 1: Statistics of FillP

Start at: 2018-03-05 17:46:54
End at: 2018-03-05 17:47:24

# Below is generated by plot.py at 2018-03-05 23:41:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 944.34 Mbit/s
95th percentile per-packet one-way delay: 172.412 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 944.34 Mbit/s
95th percentile per-packet one-way delay: 172.412 ms
Loss rate: 1.57%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-05 18:02:43

End at: 2018-03-05 18:03:14

Below is generated by plot.py at 2018-03-05 23:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 917.05 Mbit/s

95th percentile per-packet one-way delay: 181.073 ms

Loss rate: 3.36%

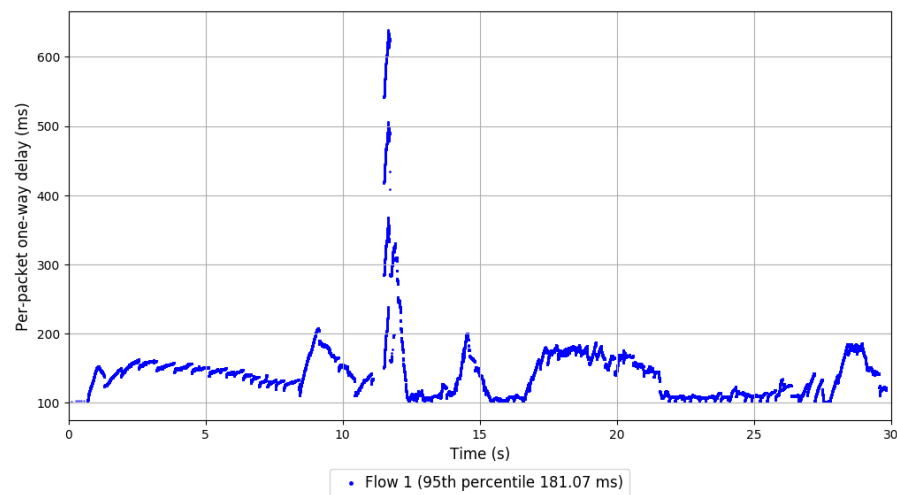
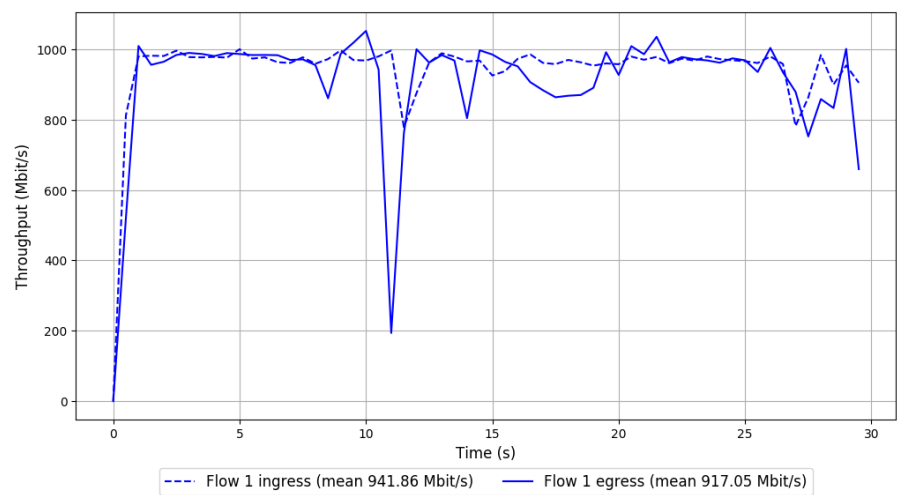
-- Flow 1:

Average throughput: 917.05 Mbit/s

95th percentile per-packet one-way delay: 181.073 ms

Loss rate: 3.36%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-05 18:18:16

End at: 2018-03-05 18:18:46

Below is generated by plot.py at 2018-03-05 23:41:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 923.06 Mbit/s

95th percentile per-packet one-way delay: 174.427 ms

Loss rate: 2.93%

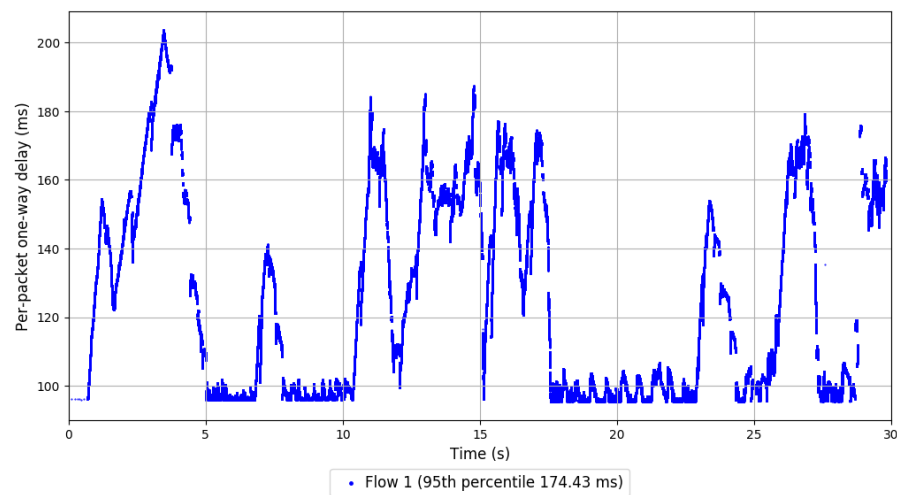
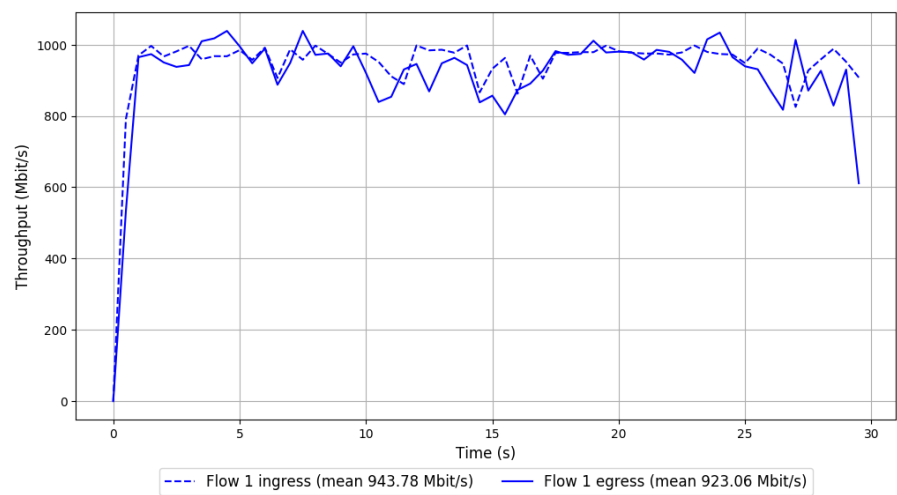
-- Flow 1:

Average throughput: 923.06 Mbit/s

95th percentile per-packet one-way delay: 174.427 ms

Loss rate: 2.93%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-05 18:34:16

End at: 2018-03-05 18:34:46

Below is generated by plot.py at 2018-03-05 23:41:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 897.24 Mbit/s

95th percentile per-packet one-way delay: 163.823 ms

Loss rate: 4.21%

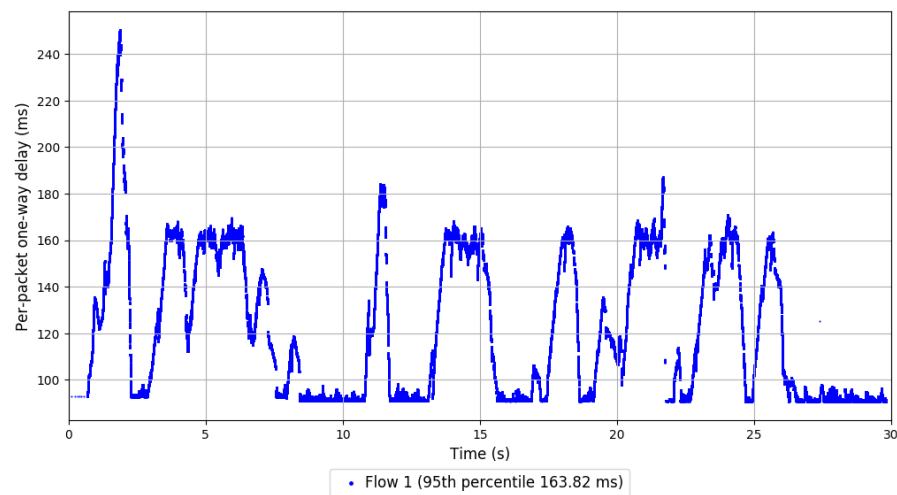
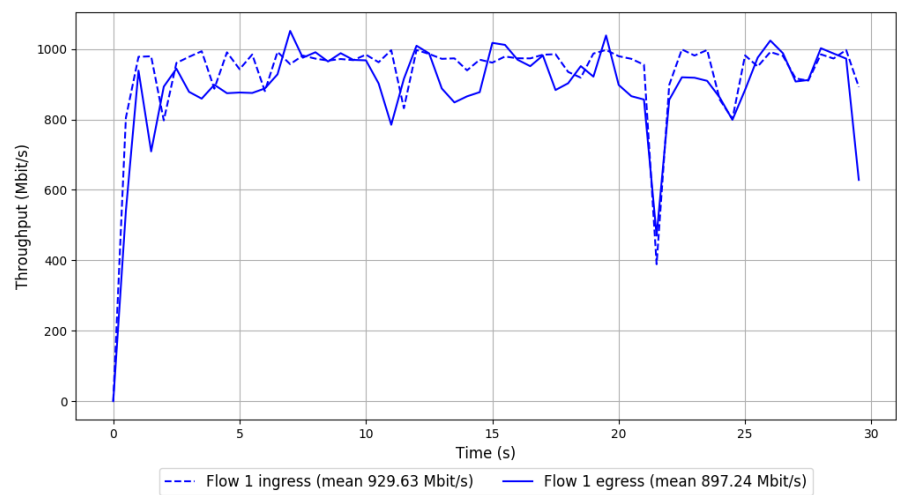
-- Flow 1:

Average throughput: 897.24 Mbit/s

95th percentile per-packet one-way delay: 163.823 ms

Loss rate: 4.21%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-05 18:50:41

End at: 2018-03-05 18:51:11

Below is generated by plot.py at 2018-03-05 23:42:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 916.56 Mbit/s

95th percentile per-packet one-way delay: 159.032 ms

Loss rate: 2.74%

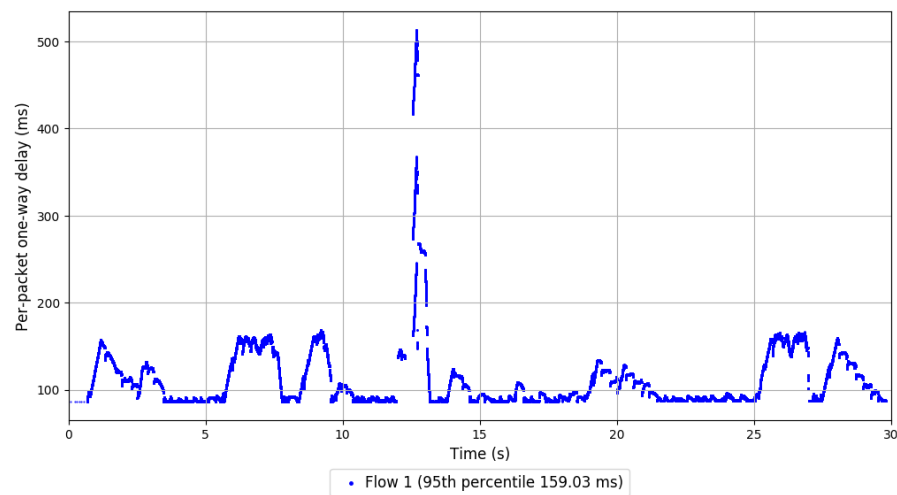
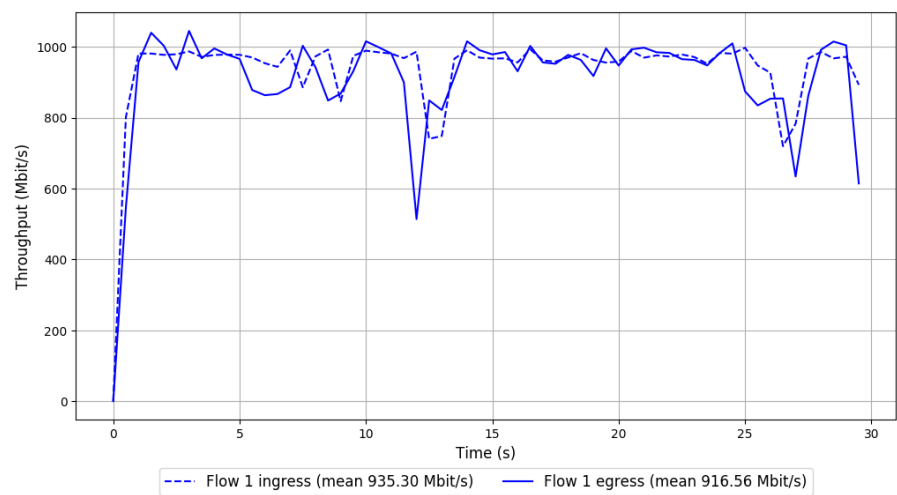
-- Flow 1:

Average throughput: 916.56 Mbit/s

95th percentile per-packet one-way delay: 159.032 ms

Loss rate: 2.74%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-05 19:06:50

End at: 2018-03-05 19:07:20

Below is generated by plot.py at 2018-03-05 23:42:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.43 Mbit/s

95th percentile per-packet one-way delay: 319.532 ms

Loss rate: 6.16%

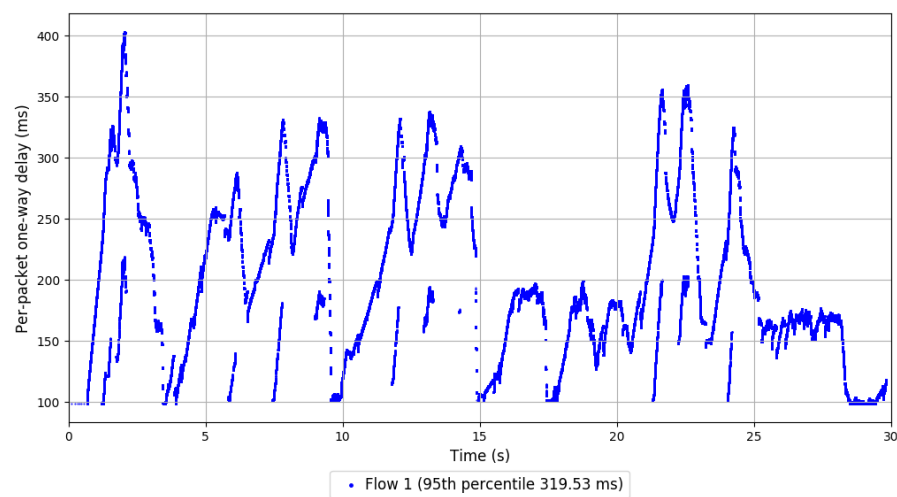
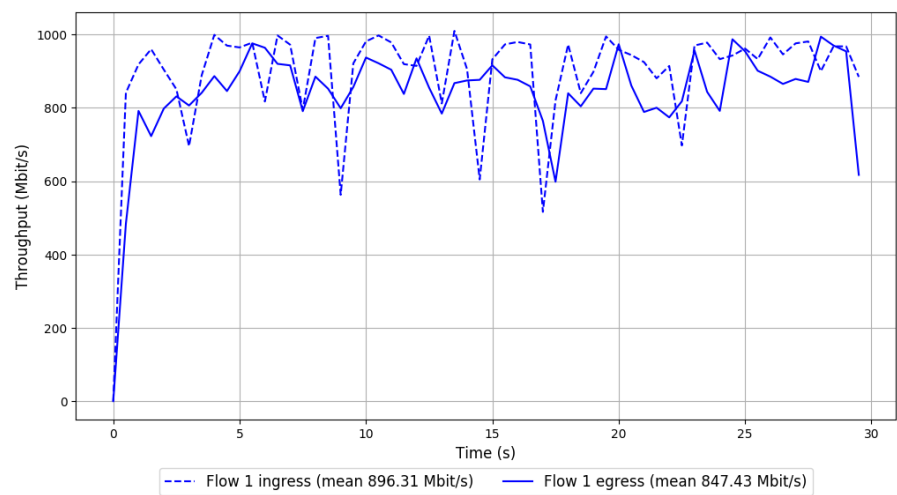
-- Flow 1:

Average throughput: 847.43 Mbit/s

95th percentile per-packet one-way delay: 319.532 ms

Loss rate: 6.16%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-05 19:22:23

End at: 2018-03-05 19:22:53

Below is generated by plot.py at 2018-03-05 23:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 916.29 Mbit/s

95th percentile per-packet one-way delay: 166.368 ms

Loss rate: 3.25%

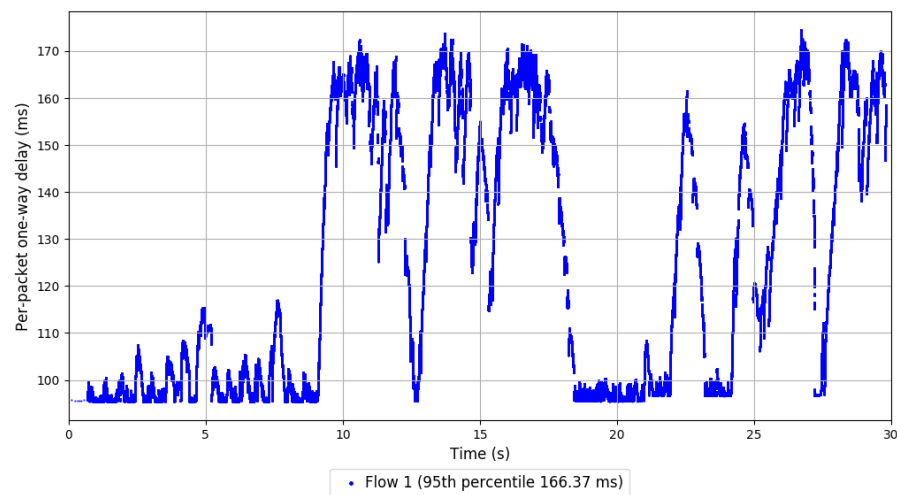
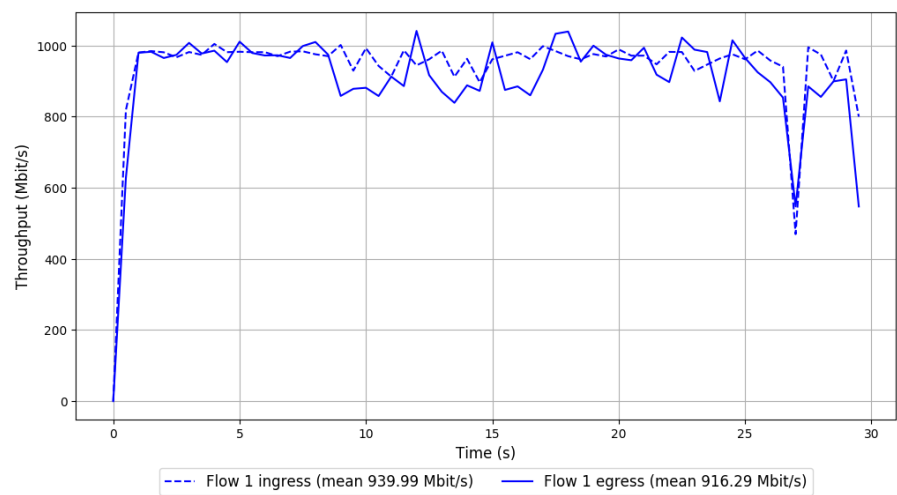
-- Flow 1:

Average throughput: 916.29 Mbit/s

95th percentile per-packet one-way delay: 166.368 ms

Loss rate: 3.25%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-05 19:37:45

End at: 2018-03-05 19:38:15

Below is generated by plot.py at 2018-03-05 23:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 890.96 Mbit/s

95th percentile per-packet one-way delay: 178.402 ms

Loss rate: 4.64%

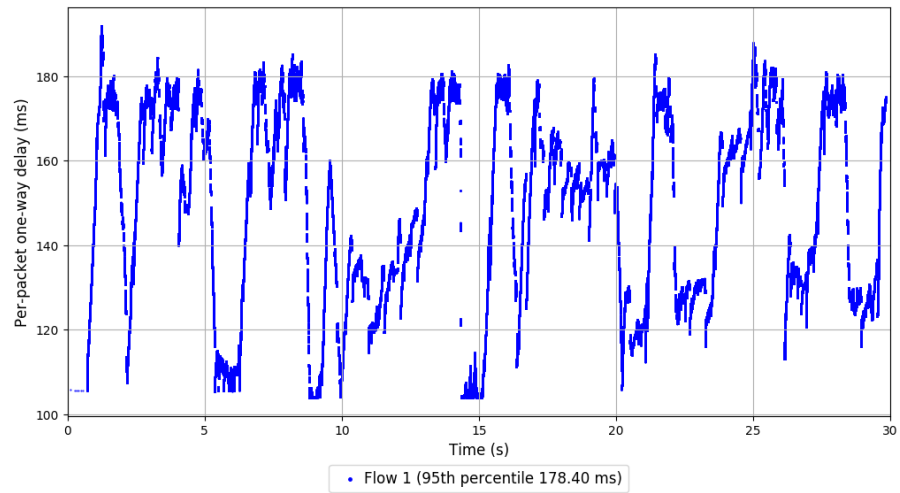
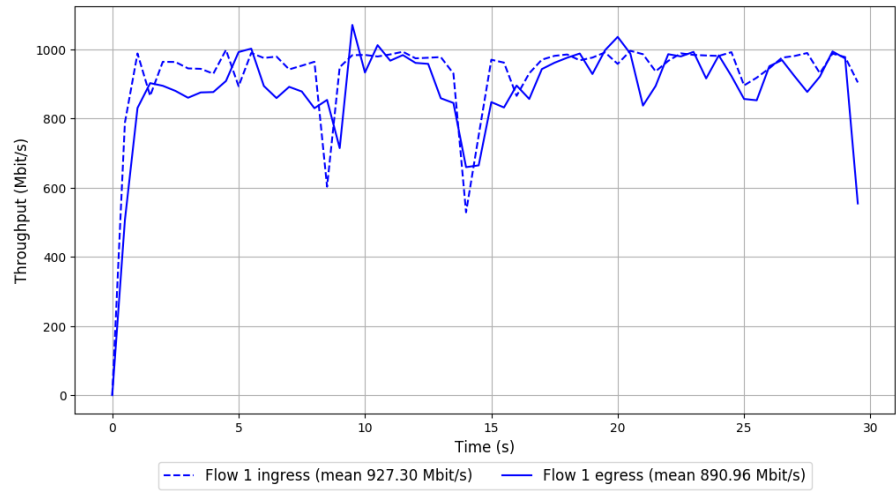
-- Flow 1:

Average throughput: 890.96 Mbit/s

95th percentile per-packet one-way delay: 178.402 ms

Loss rate: 4.64%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-05 19:53:13

End at: 2018-03-05 19:53:43

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 946.14 Mbit/s

95th percentile per-packet one-way delay: 168.693 ms

Loss rate: 1.48%

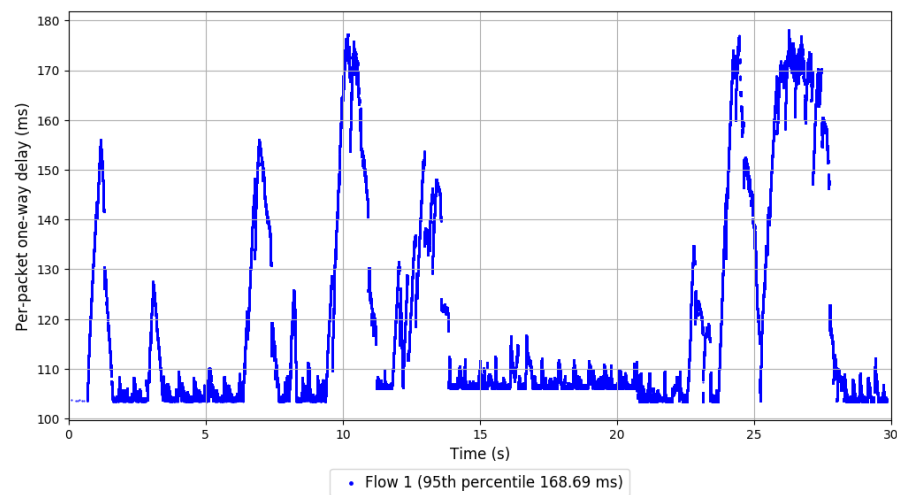
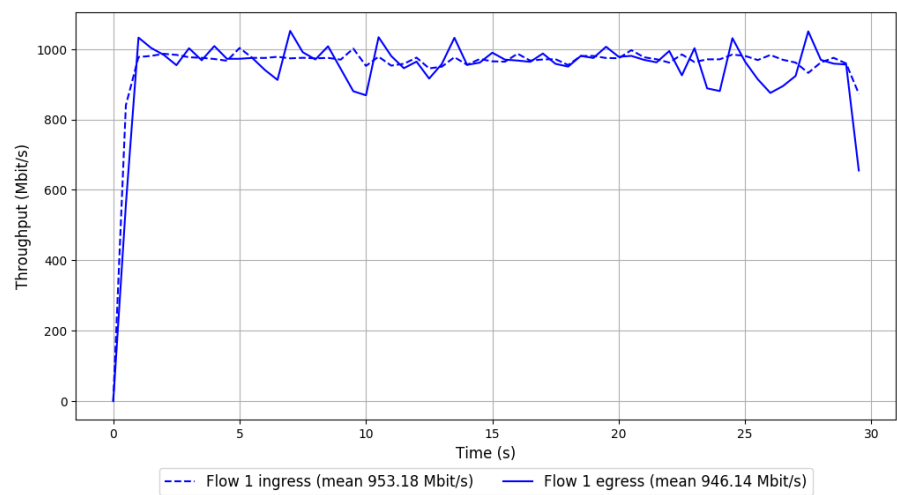
-- Flow 1:

Average throughput: 946.14 Mbit/s

95th percentile per-packet one-way delay: 168.693 ms

Loss rate: 1.48%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-05 20:08:34

End at: 2018-03-05 20:09:04

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 915.65 Mbit/s

95th percentile per-packet one-way delay: 310.111 ms

Loss rate: 1.73%

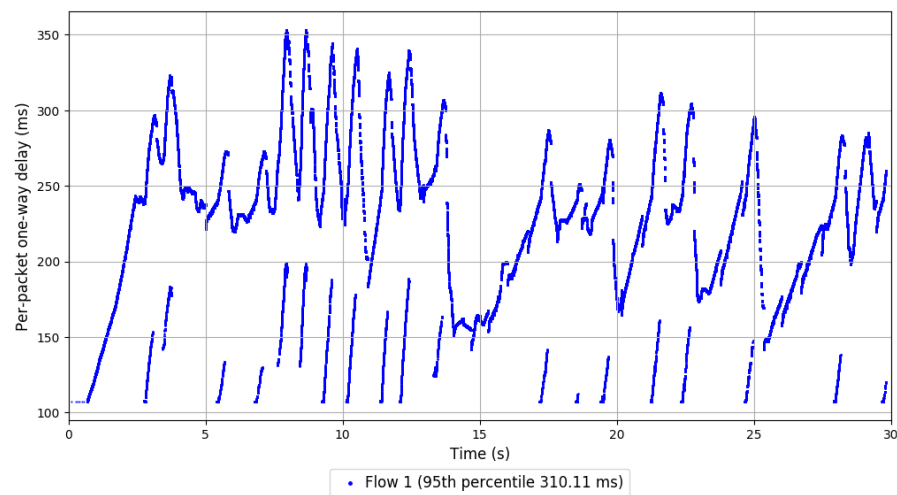
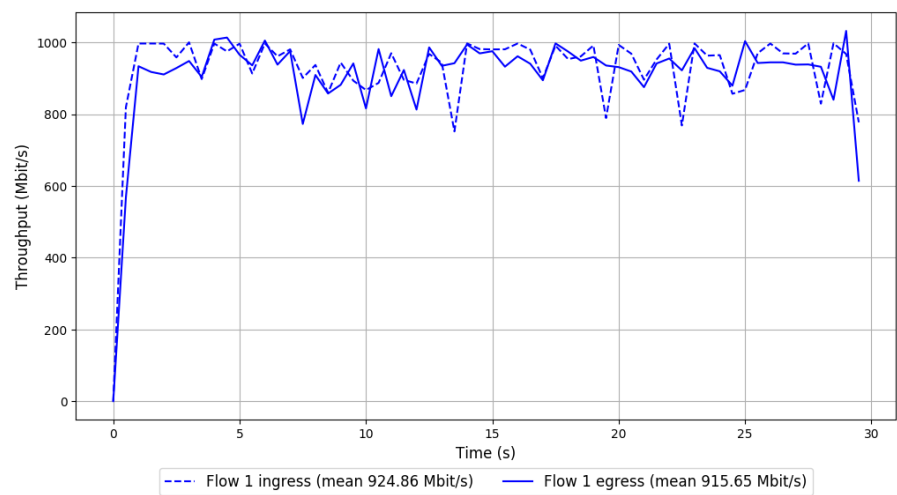
-- Flow 1:

Average throughput: 915.65 Mbit/s

95th percentile per-packet one-way delay: 310.111 ms

Loss rate: 1.73%

Run 10: Report of FillP — Data Link

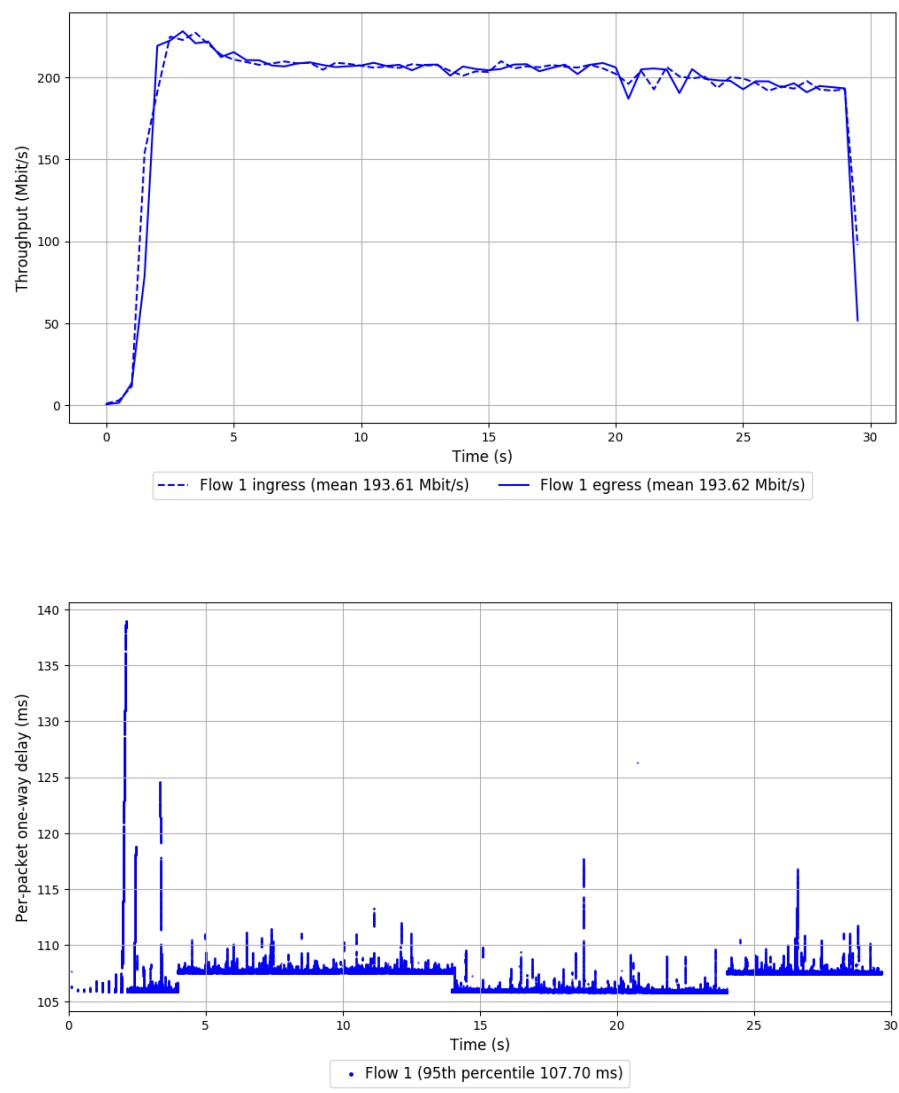


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-05 17:46:00
End at: 2018-03-05 17:46:30

# Below is generated by plot.py at 2018-03-05 23:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 193.62 Mbit/s
95th percentile per-packet one-way delay: 107.704 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 193.62 Mbit/s
95th percentile per-packet one-way delay: 107.704 ms
Loss rate: 0.74%
```

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

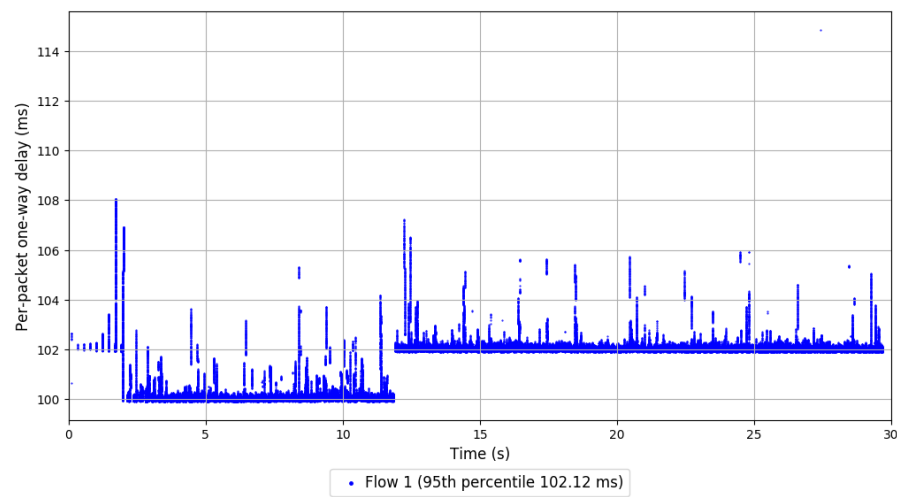
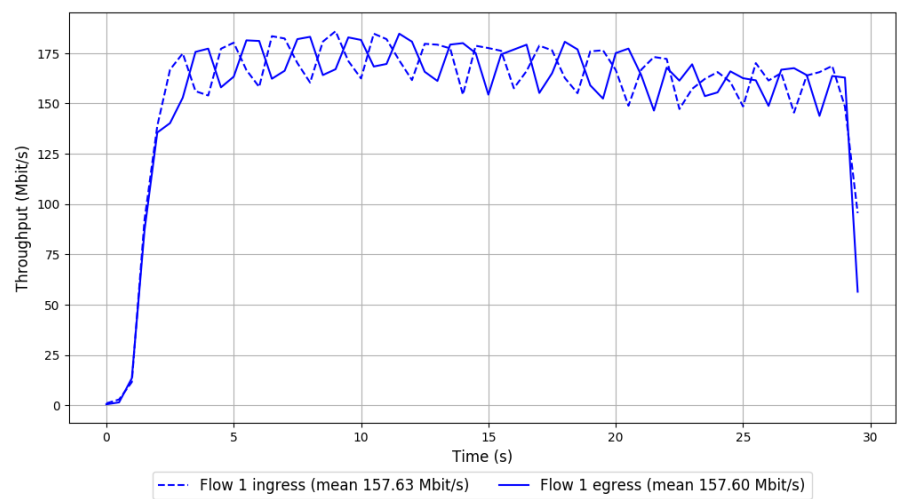


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-03-05 18:01:52
End at: 2018-03-05 18:02:22

# Below is generated by plot.py at 2018-03-05 23:57:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.60 Mbit/s
95th percentile per-packet one-way delay: 102.121 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 157.60 Mbit/s
95th percentile per-packet one-way delay: 102.121 ms
Loss rate: 0.76%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-05 18:17:21

End at: 2018-03-05 18:17:51

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.21 Mbit/s

95th percentile per-packet one-way delay: 94.883 ms

Loss rate: 0.74%

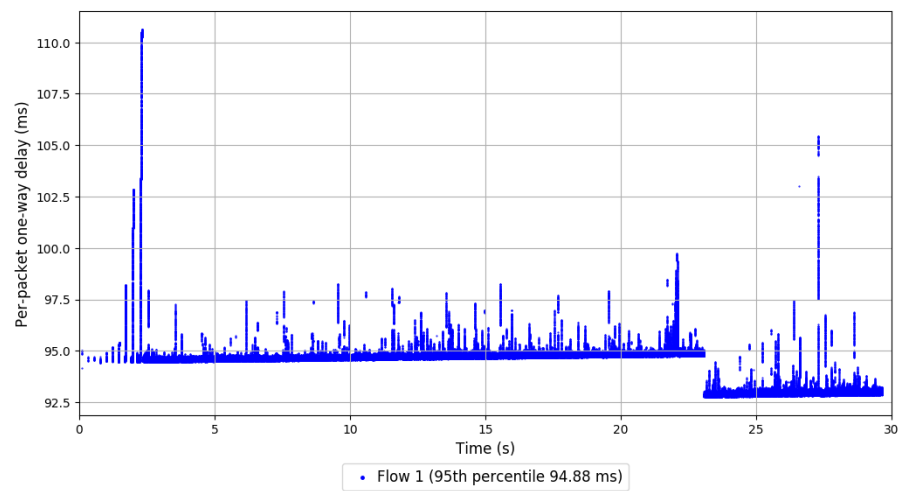
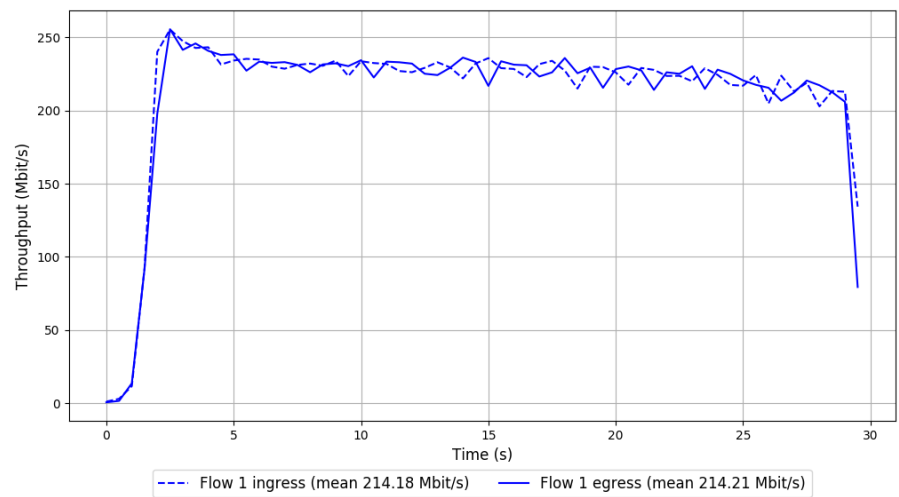
-- Flow 1:

Average throughput: 214.21 Mbit/s

95th percentile per-packet one-way delay: 94.883 ms

Loss rate: 0.74%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-05 18:33:19

End at: 2018-03-05 18:33:50

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.74 Mbit/s

95th percentile per-packet one-way delay: 93.405 ms

Loss rate: 0.78%

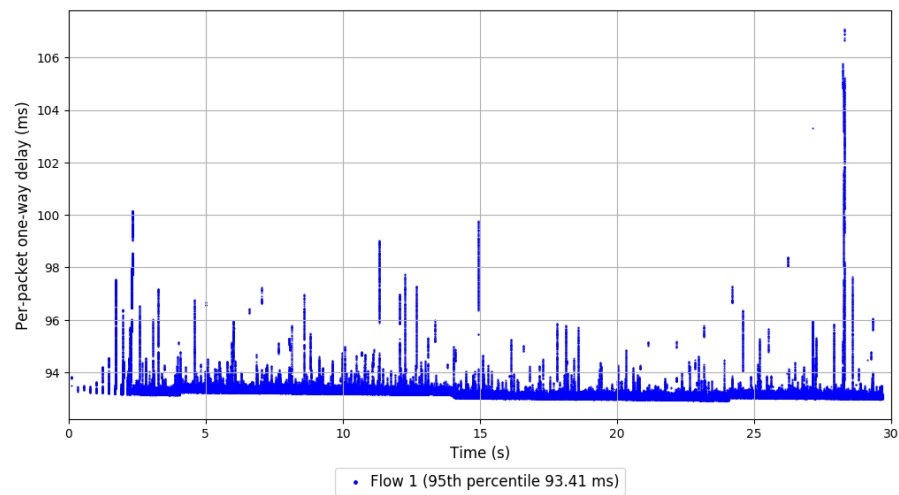
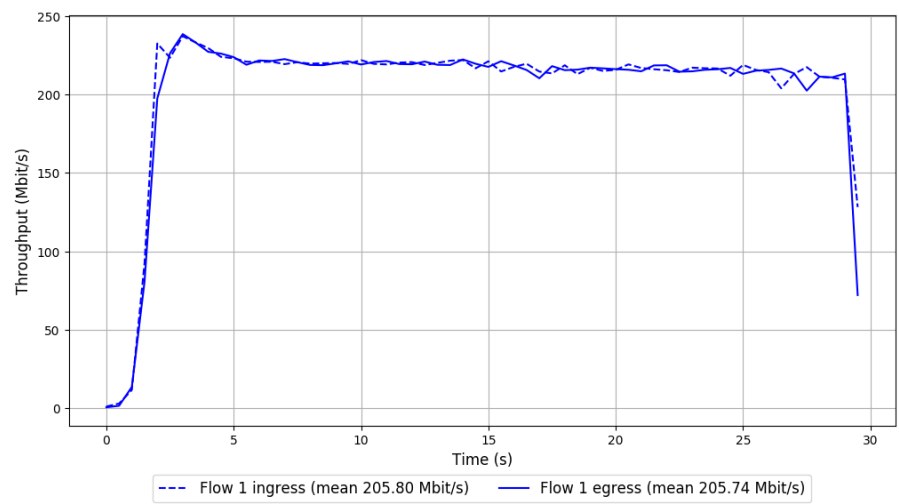
-- Flow 1:

Average throughput: 205.74 Mbit/s

95th percentile per-packet one-way delay: 93.405 ms

Loss rate: 0.78%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-05 18:49:45

End at: 2018-03-05 18:50:15

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.36 Mbit/s

95th percentile per-packet one-way delay: 84.957 ms

Loss rate: 0.75%

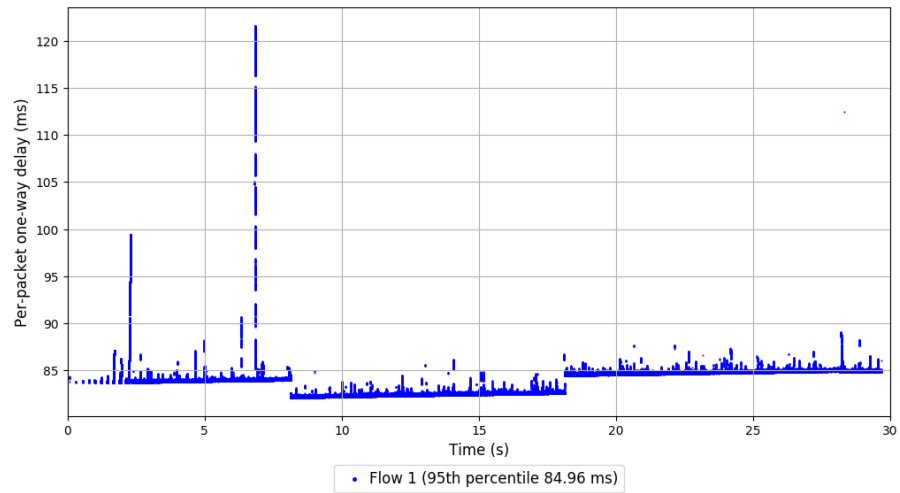
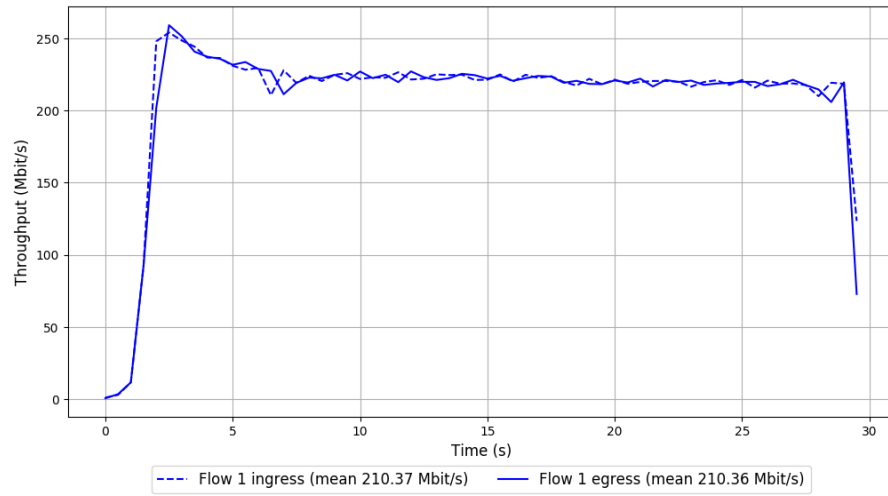
-- Flow 1:

Average throughput: 210.36 Mbit/s

95th percentile per-packet one-way delay: 84.957 ms

Loss rate: 0.75%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-05 19:05:57

End at: 2018-03-05 19:06:27

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.27 Mbit/s

95th percentile per-packet one-way delay: 99.839 ms

Loss rate: 0.81%

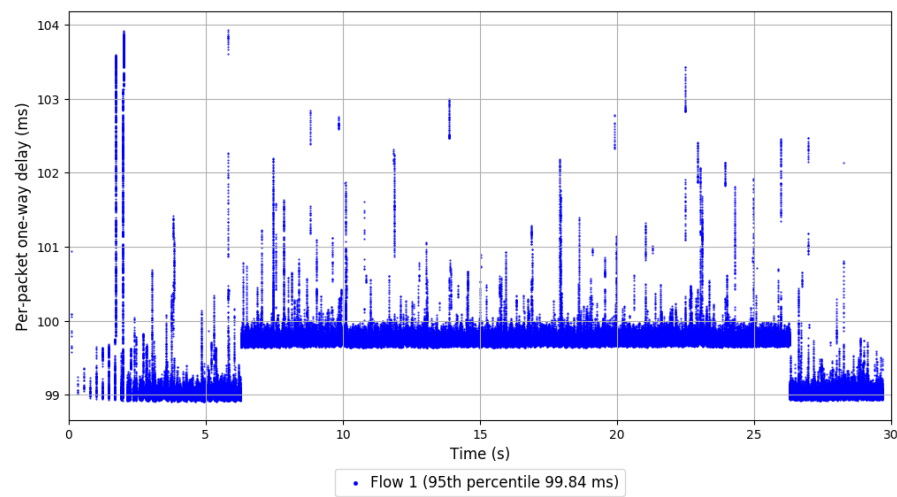
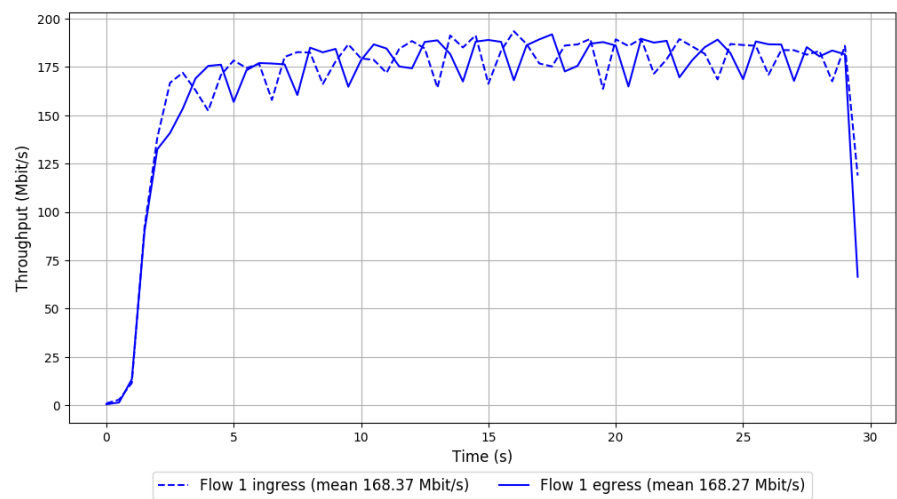
-- Flow 1:

Average throughput: 168.27 Mbit/s

95th percentile per-packet one-way delay: 99.839 ms

Loss rate: 0.81%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-05 19:21:32

End at: 2018-03-05 19:22:02

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.40 Mbit/s

95th percentile per-packet one-way delay: 97.348 ms

Loss rate: 0.76%

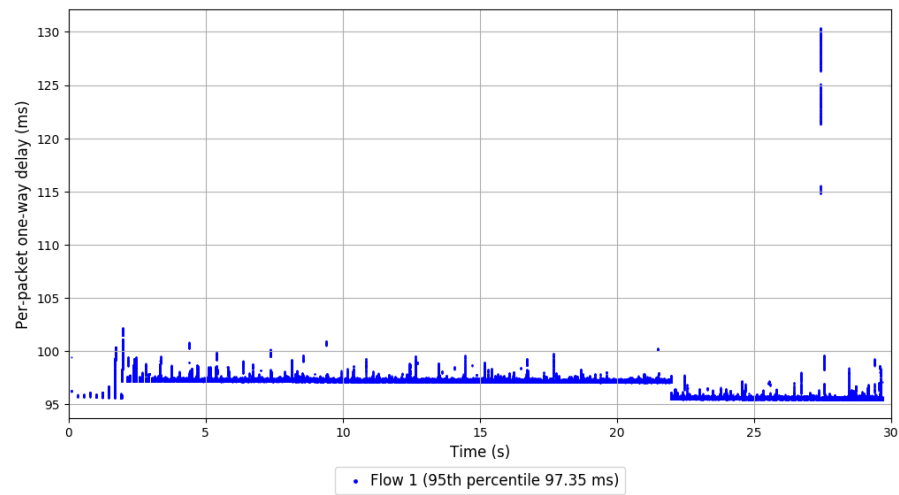
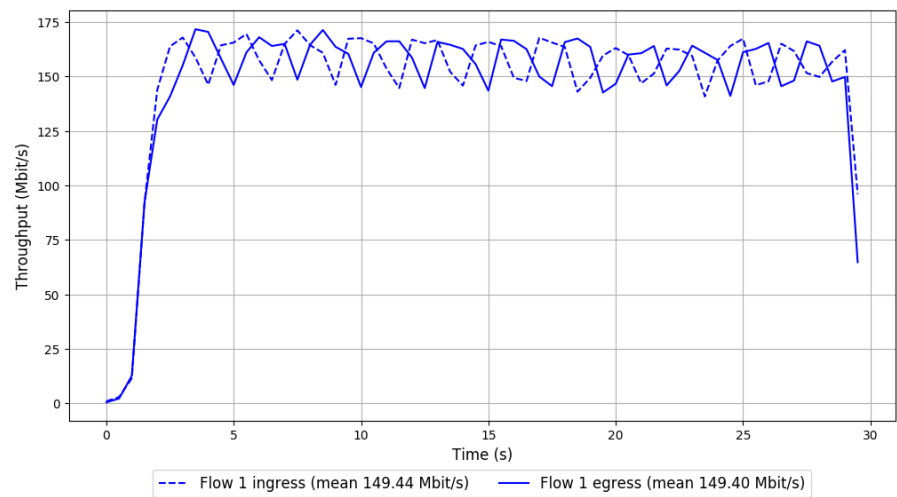
-- Flow 1:

Average throughput: 149.40 Mbit/s

95th percentile per-packet one-way delay: 97.348 ms

Loss rate: 0.76%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-05 19:36:52

End at: 2018-03-05 19:37:22

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.02 Mbit/s

95th percentile per-packet one-way delay: 106.314 ms

Loss rate: 0.79%

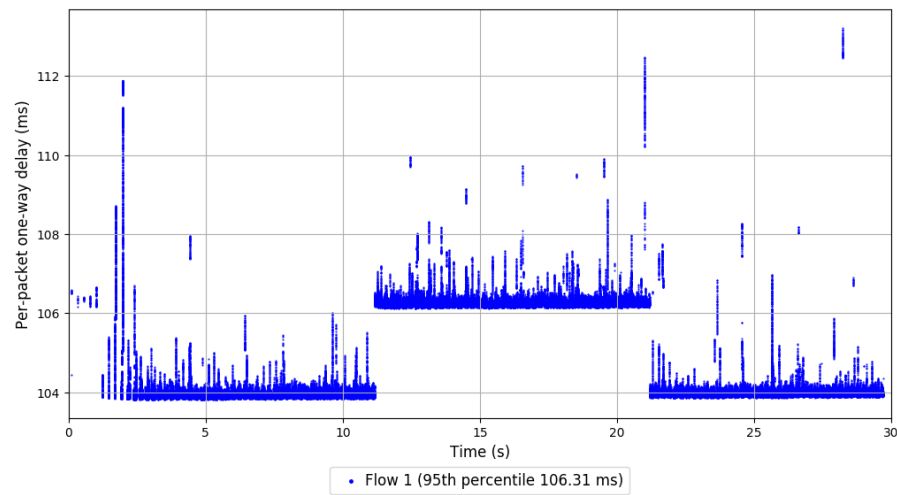
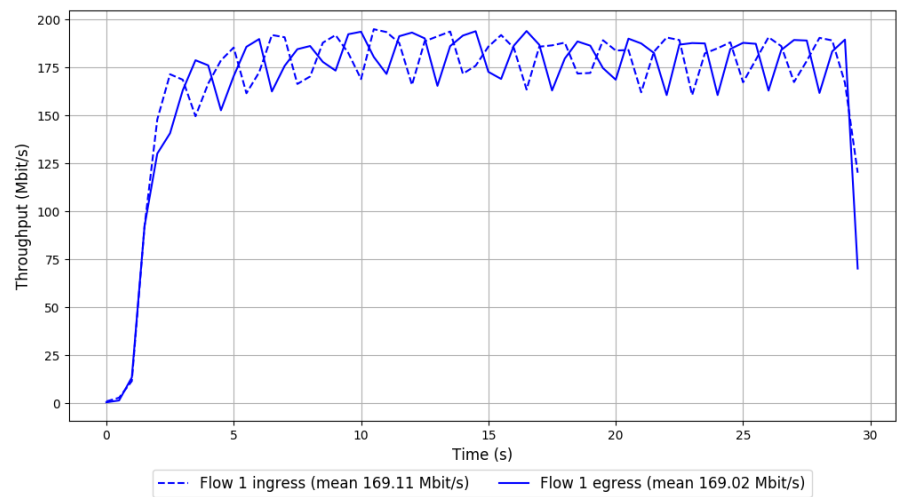
-- Flow 1:

Average throughput: 169.02 Mbit/s

95th percentile per-packet one-way delay: 106.314 ms

Loss rate: 0.79%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-05 19:52:22

End at: 2018-03-05 19:52:52

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.00 Mbit/s

95th percentile per-packet one-way delay: 105.577 ms

Loss rate: 0.80%

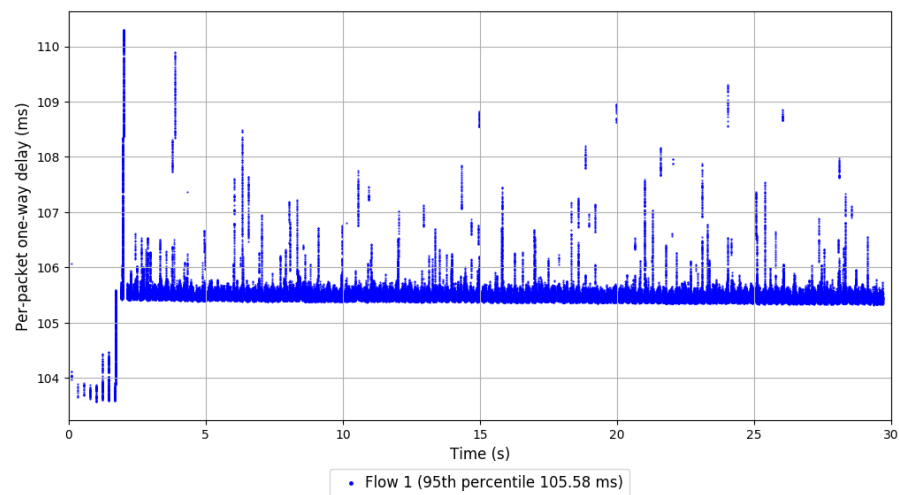
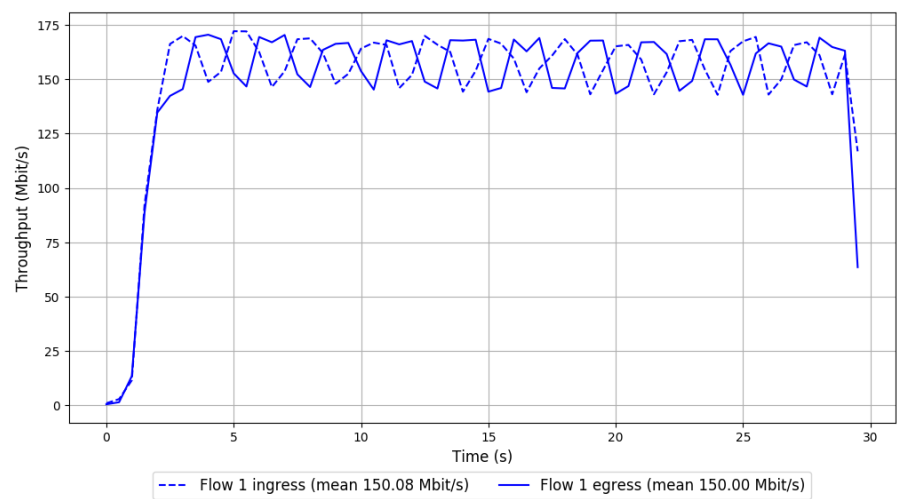
-- Flow 1:

Average throughput: 150.00 Mbit/s

95th percentile per-packet one-way delay: 105.577 ms

Loss rate: 0.80%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-05 20:07:39

End at: 2018-03-05 20:08:09

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.48 Mbit/s

95th percentile per-packet one-way delay: 109.595 ms

Loss rate: 0.74%

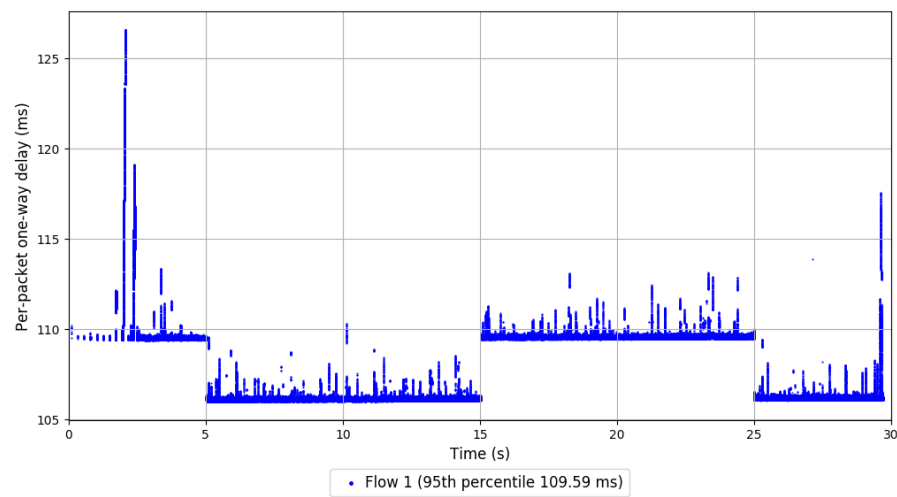
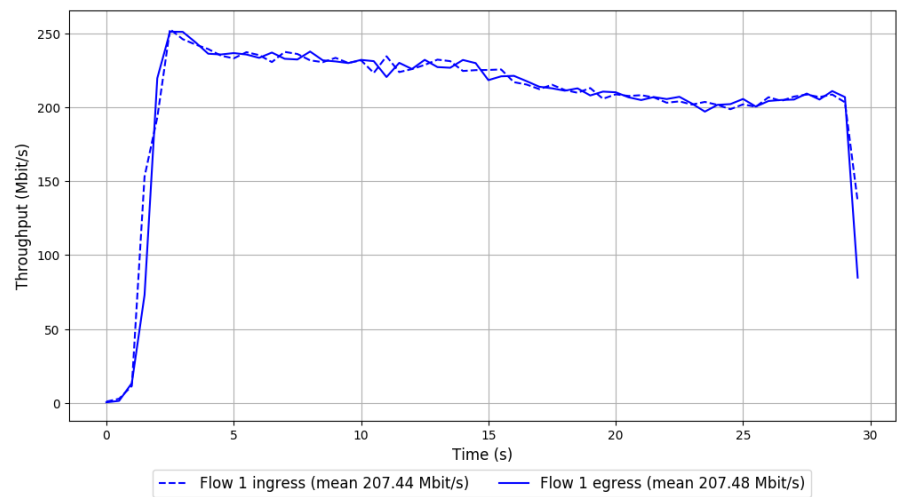
-- Flow 1:

Average throughput: 207.48 Mbit/s

95th percentile per-packet one-way delay: 109.595 ms

Loss rate: 0.74%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-05 17:42:26

End at: 2018-03-05 17:42:56

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.36 Mbit/s

95th percentile per-packet one-way delay: 109.735 ms

Loss rate: 1.01%

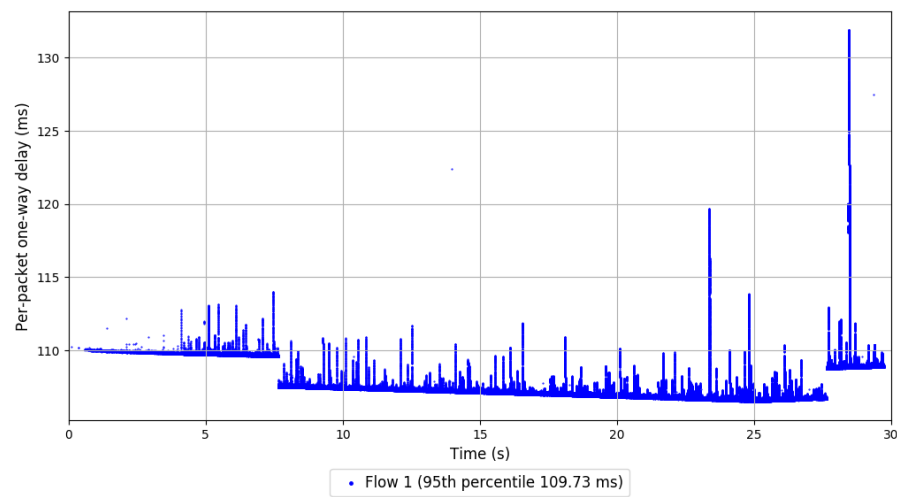
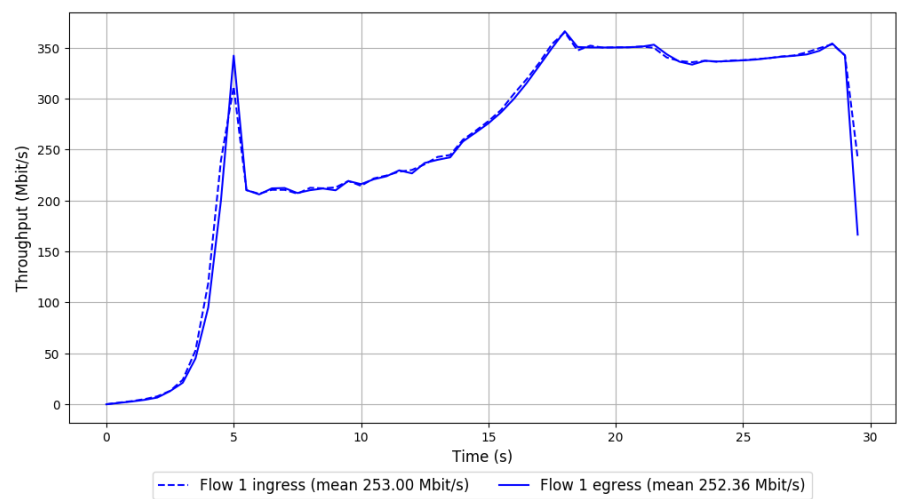
-- Flow 1:

Average throughput: 252.36 Mbit/s

95th percentile per-packet one-way delay: 109.735 ms

Loss rate: 1.01%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-05 17:58:09

End at: 2018-03-05 17:58:39

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.92 Mbit/s

95th percentile per-packet one-way delay: 100.589 ms

Loss rate: 0.84%

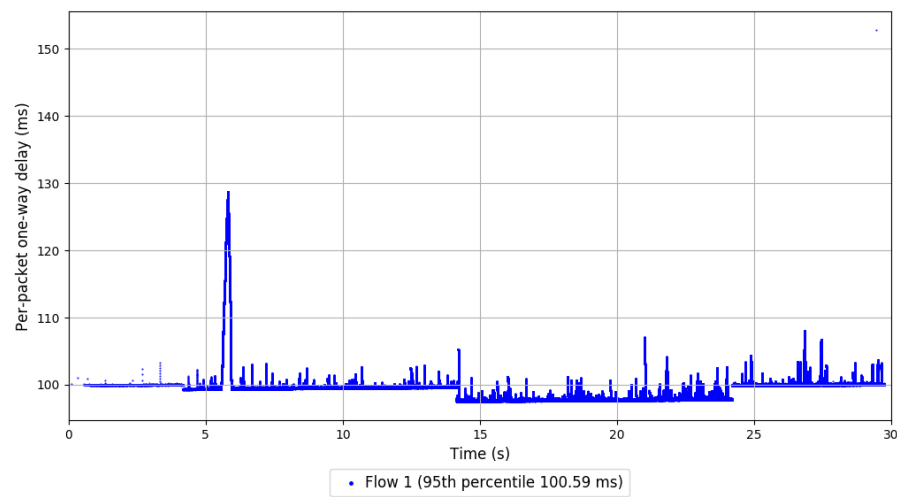
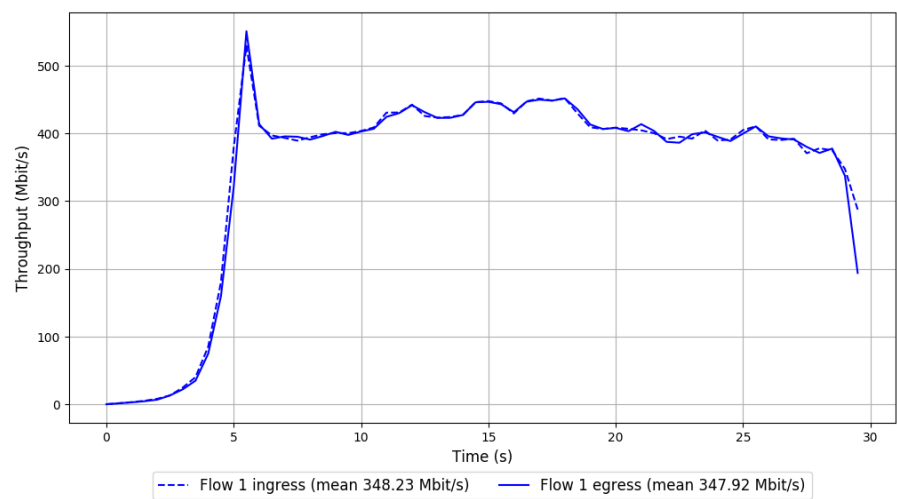
-- Flow 1:

Average throughput: 347.92 Mbit/s

95th percentile per-packet one-way delay: 100.589 ms

Loss rate: 0.84%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-05 18:13:37

End at: 2018-03-05 18:14:07

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.52 Mbit/s

95th percentile per-packet one-way delay: 92.451 ms

Loss rate: 0.86%

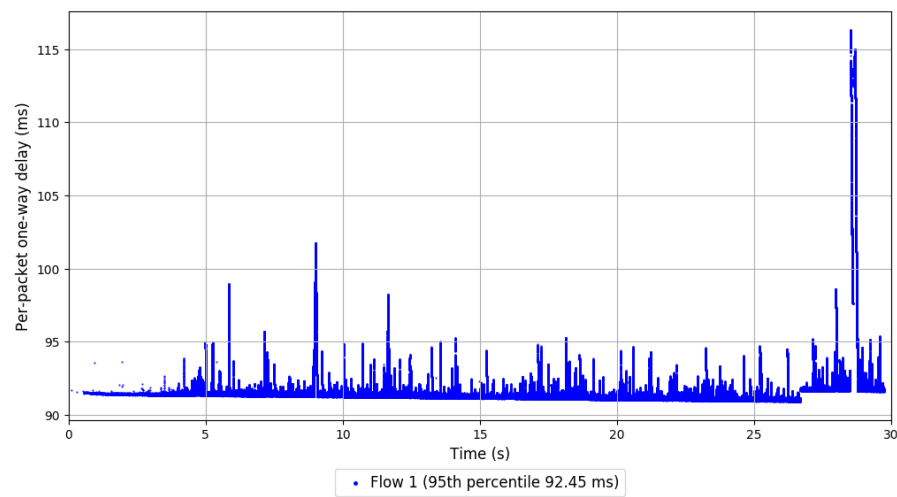
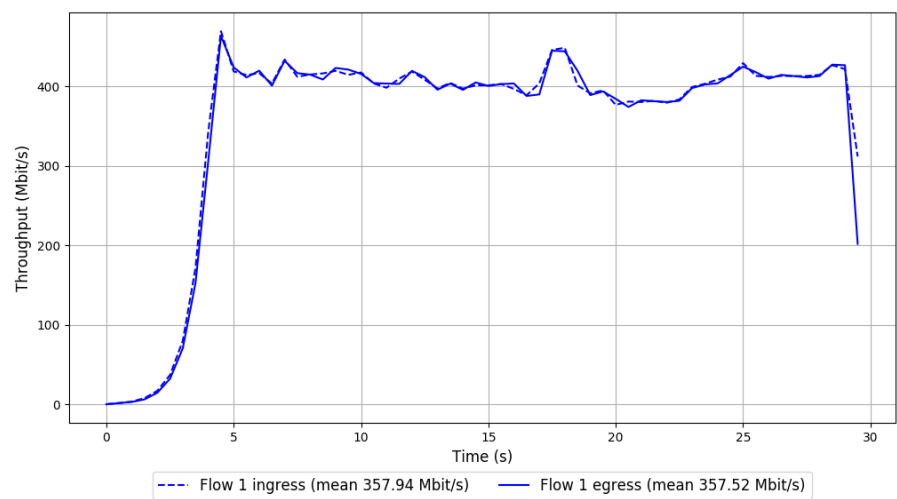
-- Flow 1:

Average throughput: 357.52 Mbit/s

95th percentile per-packet one-way delay: 92.451 ms

Loss rate: 0.86%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-05 18:29:22

End at: 2018-03-05 18:29:52

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.98 Mbit/s

95th percentile per-packet one-way delay: 96.332 ms

Loss rate: 1.11%

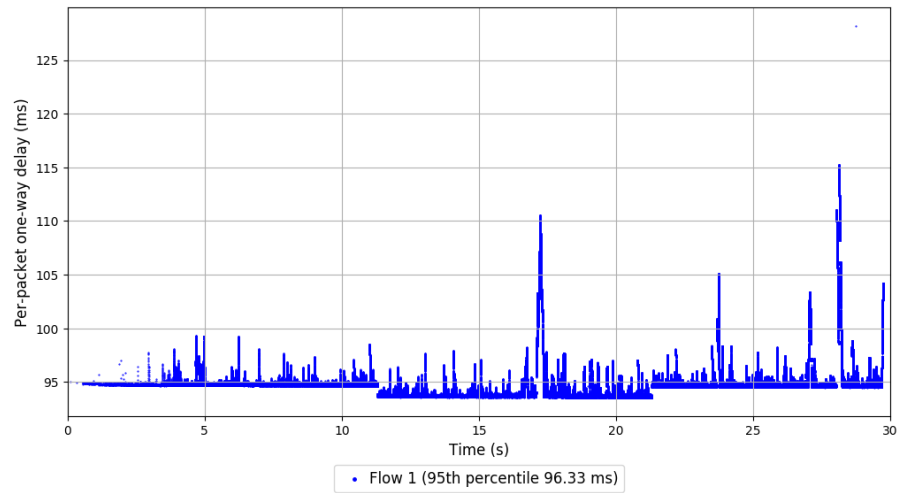
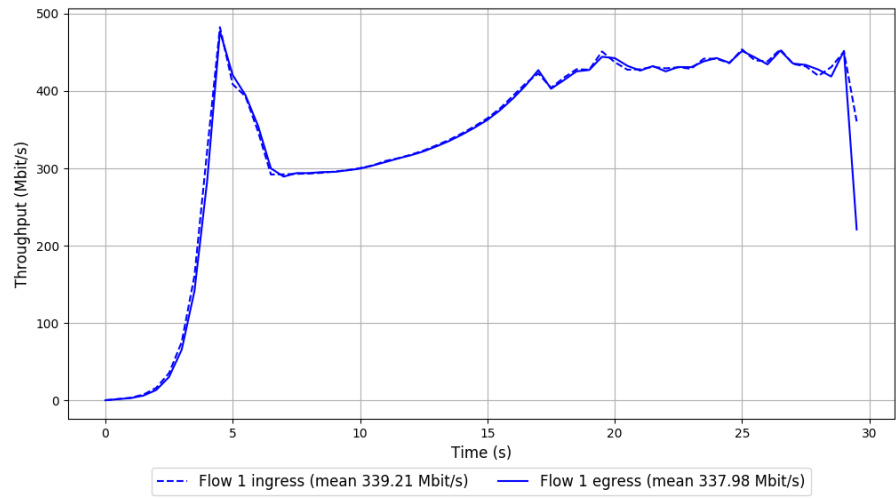
-- Flow 1:

Average throughput: 337.98 Mbit/s

95th percentile per-packet one-way delay: 96.332 ms

Loss rate: 1.11%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-05 18:45:35

End at: 2018-03-05 18:46:05

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.15 Mbit/s

95th percentile per-packet one-way delay: 83.288 ms

Loss rate: 0.59%

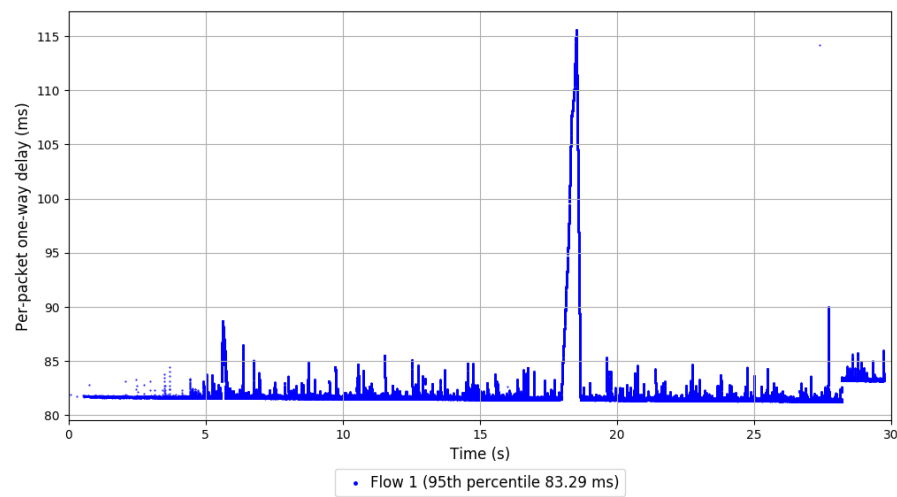
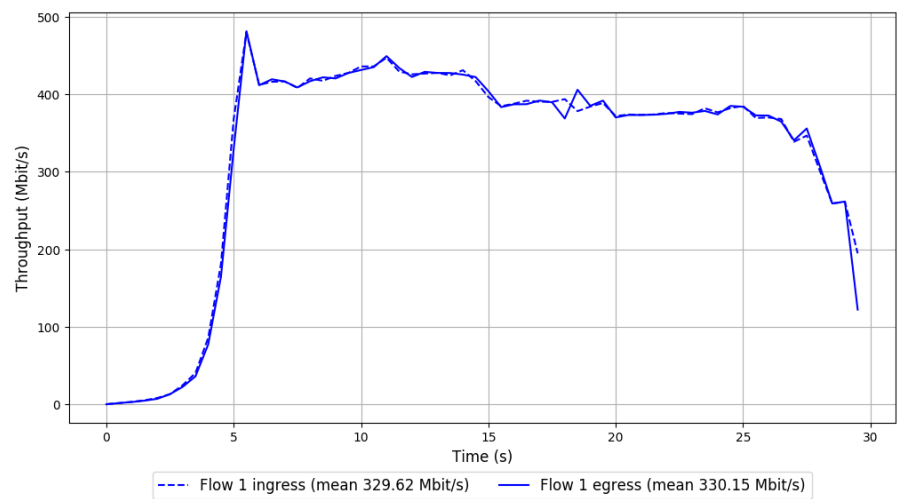
-- Flow 1:

Average throughput: 330.15 Mbit/s

95th percentile per-packet one-way delay: 83.288 ms

Loss rate: 0.59%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-05 19:02:20

End at: 2018-03-05 19:02:50

Below is generated by plot.py at 2018-03-05 23:57:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.43 Mbit/s

95th percentile per-packet one-way delay: 98.772 ms

Loss rate: 0.90%

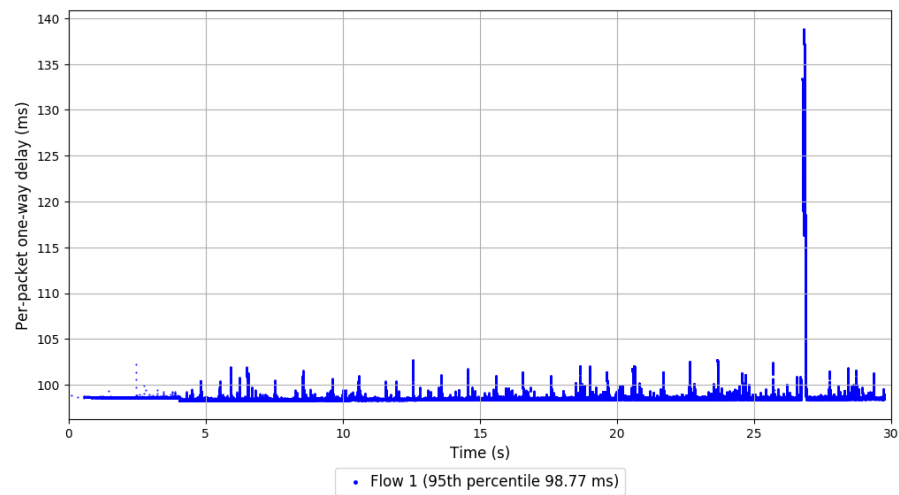
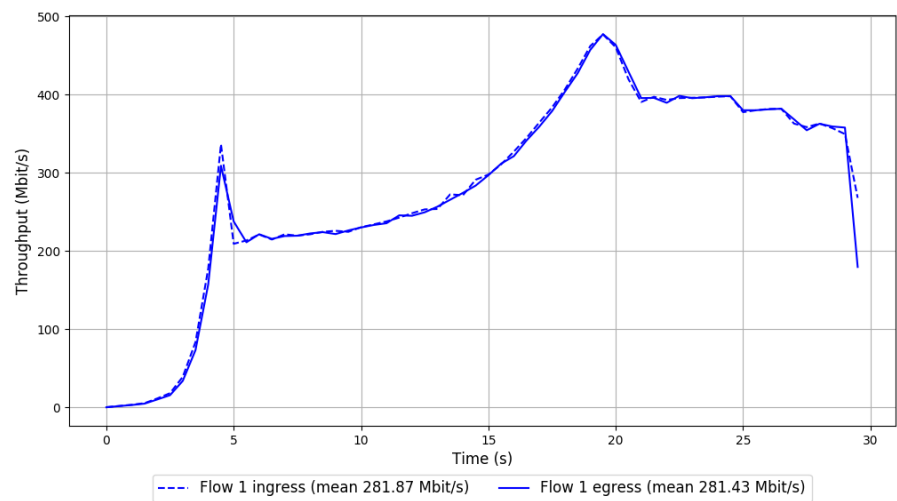
-- Flow 1:

Average throughput: 281.43 Mbit/s

95th percentile per-packet one-way delay: 98.772 ms

Loss rate: 0.90%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-05 19:17:49

End at: 2018-03-05 19:18:19

Below is generated by plot.py at 2018-03-05 23:59:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.85 Mbit/s

95th percentile per-packet one-way delay: 105.179 ms

Loss rate: 0.80%

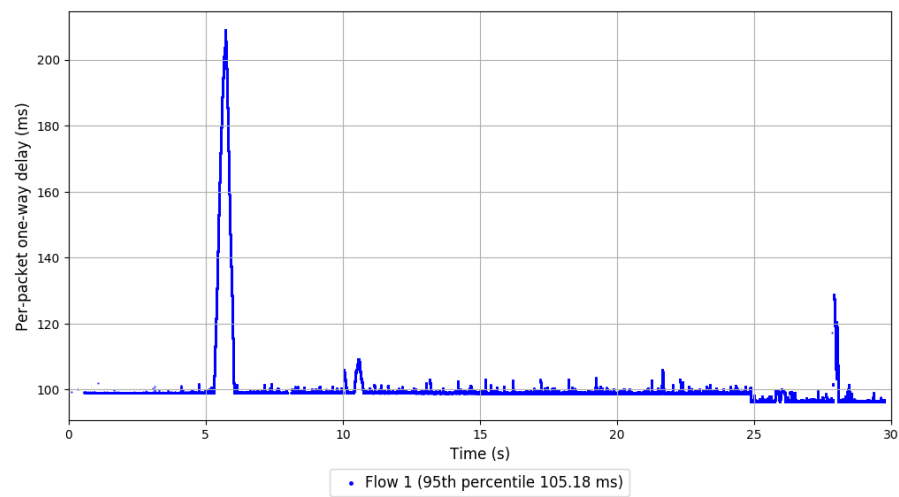
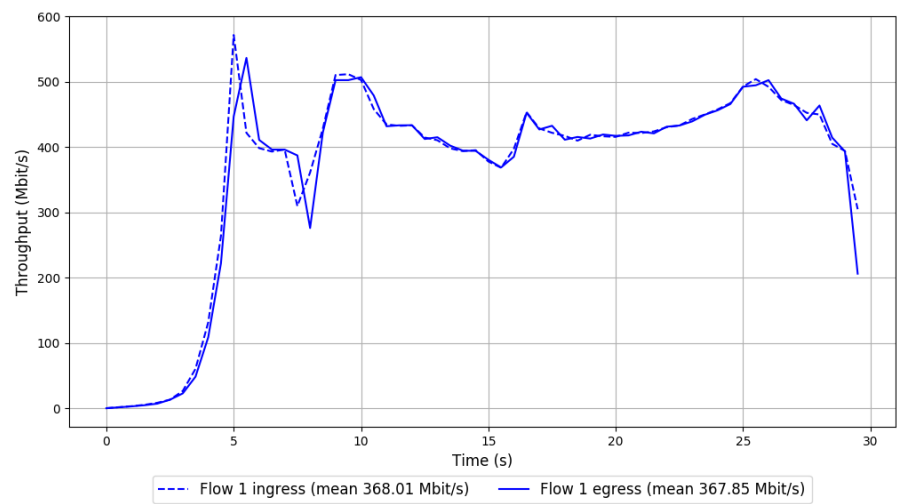
-- Flow 1:

Average throughput: 367.85 Mbit/s

95th percentile per-packet one-way delay: 105.179 ms

Loss rate: 0.80%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-05 19:33:09

End at: 2018-03-05 19:33:39

Below is generated by plot.py at 2018-03-05 23:59:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.82 Mbit/s

95th percentile per-packet one-way delay: 105.223 ms

Loss rate: 0.86%

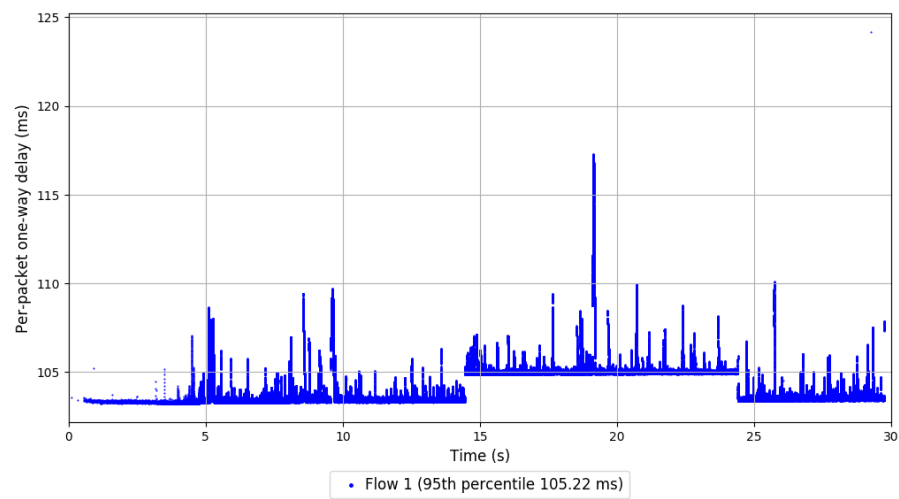
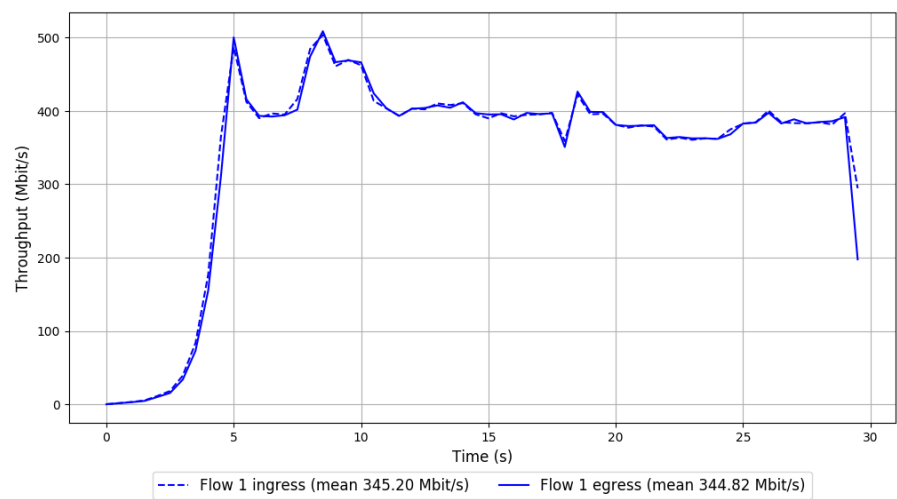
-- Flow 1:

Average throughput: 344.82 Mbit/s

95th percentile per-packet one-way delay: 105.223 ms

Loss rate: 0.86%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-05 19:48:40

End at: 2018-03-05 19:49:10

Below is generated by plot.py at 2018-03-06 00:00:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.55 Mbit/s

95th percentile per-packet one-way delay: 138.804 ms

Loss rate: 0.92%

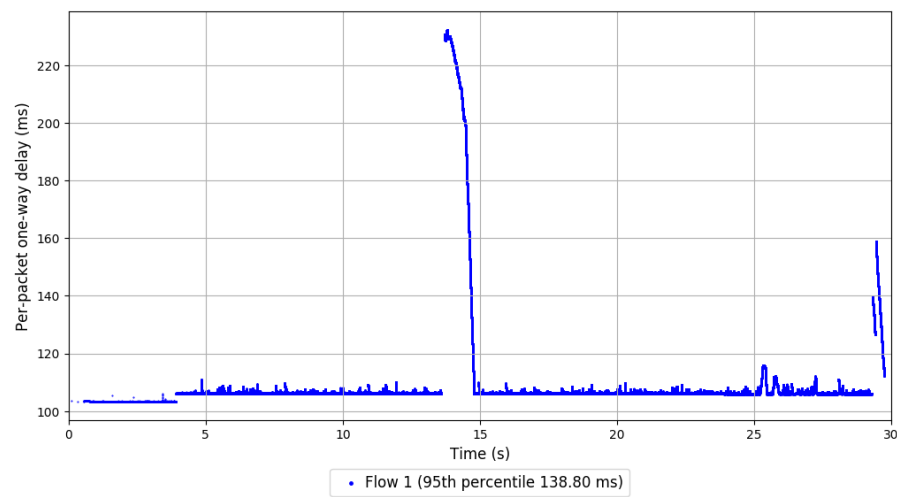
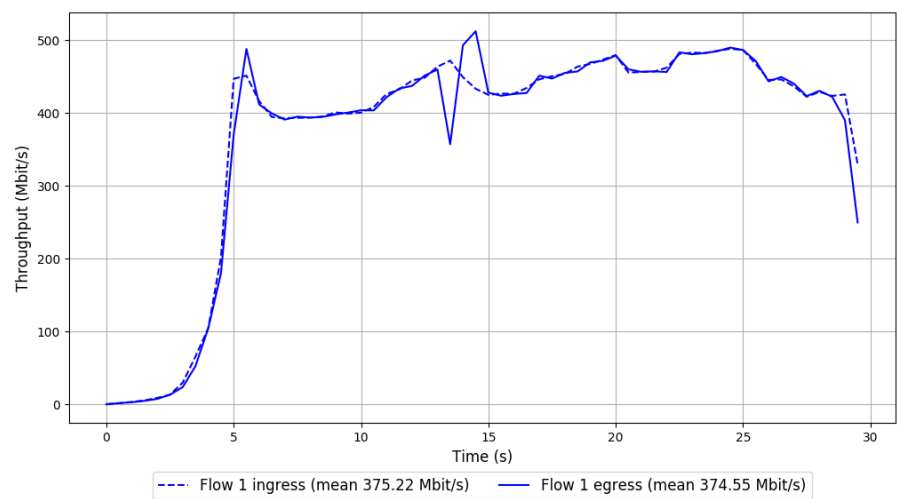
-- Flow 1:

Average throughput: 374.55 Mbit/s

95th percentile per-packet one-way delay: 138.804 ms

Loss rate: 0.92%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-05 20:03:55

End at: 2018-03-05 20:04:25

Below is generated by plot.py at 2018-03-06 00:00:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.82 Mbit/s

95th percentile per-packet one-way delay: 109.799 ms

Loss rate: 0.89%

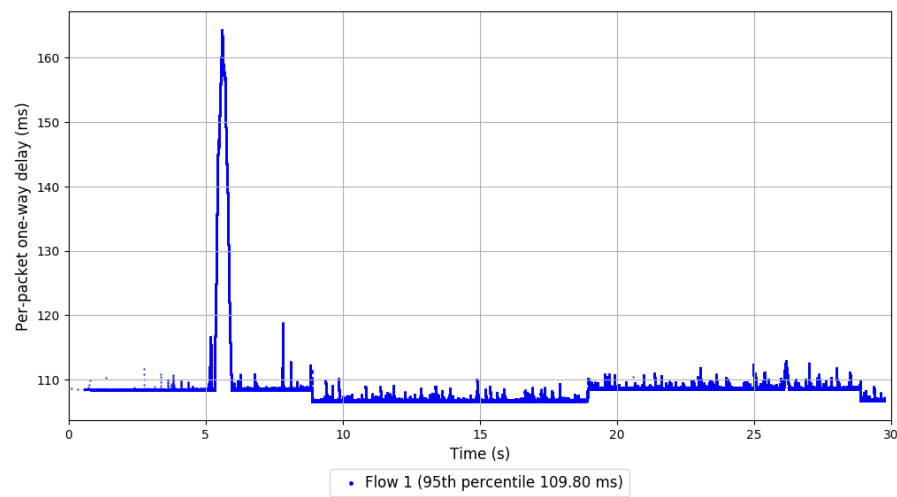
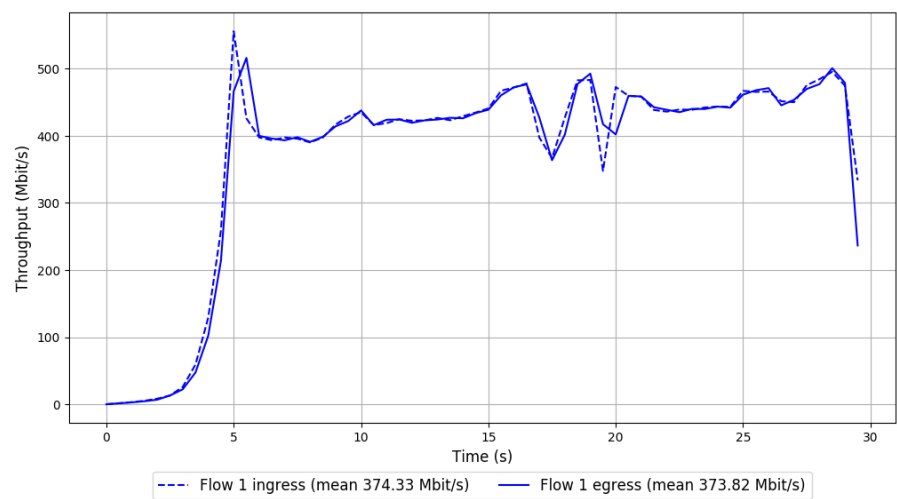
-- Flow 1:

Average throughput: 373.82 Mbit/s

95th percentile per-packet one-way delay: 109.799 ms

Loss rate: 0.89%

Run 10: Report of Vivace-latency — Data Link

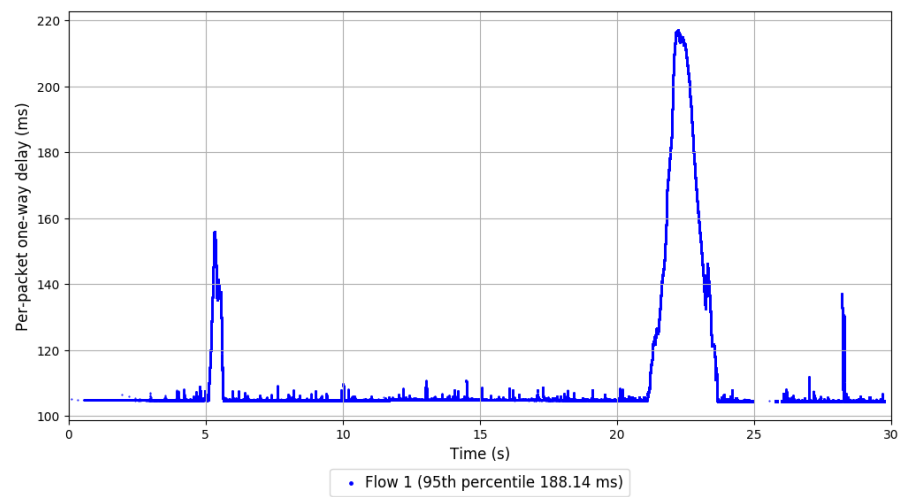
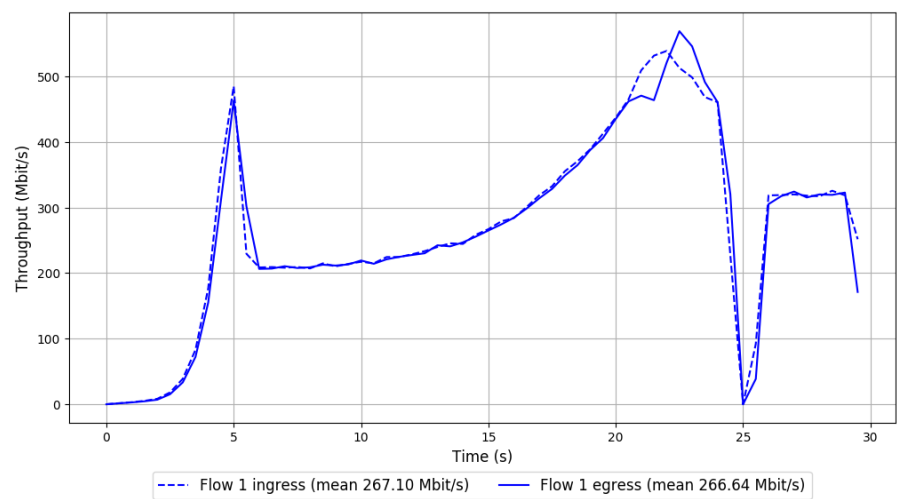


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-05 17:53:02
End at: 2018-03-05 17:53:32

# Below is generated by plot.py at 2018-03-06 00:00:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.64 Mbit/s
95th percentile per-packet one-way delay: 188.144 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 266.64 Mbit/s
95th percentile per-packet one-way delay: 188.144 ms
Loss rate: 0.93%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-05 18:08:49

End at: 2018-03-05 18:09:19

Below is generated by plot.py at 2018-03-06 00:02:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.08 Mbit/s

95th percentile per-packet one-way delay: 123.975 ms

Loss rate: 0.05%

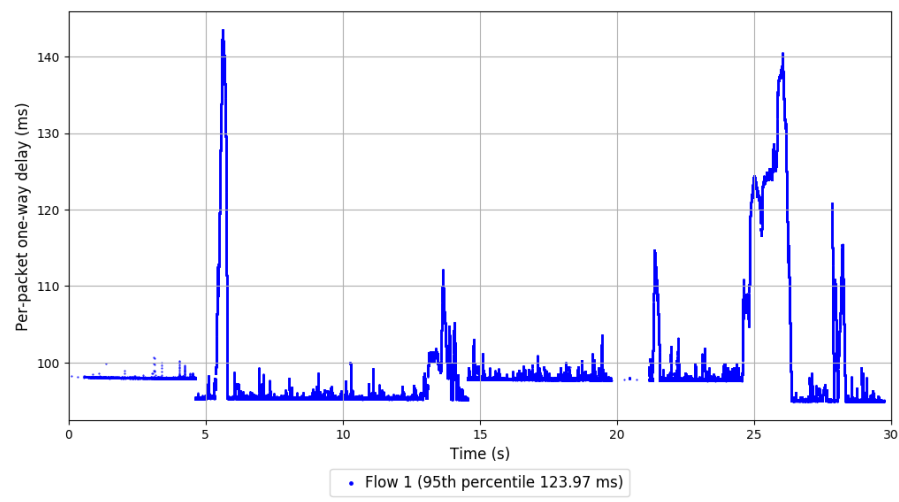
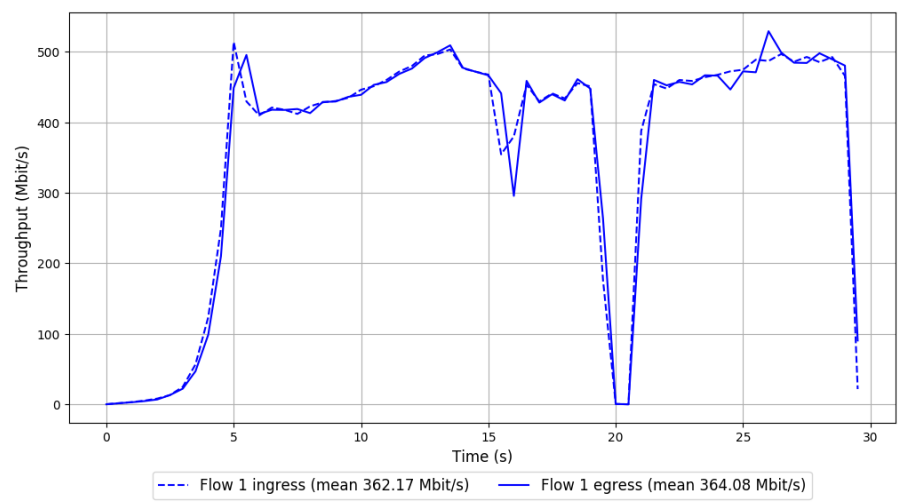
-- Flow 1:

Average throughput: 364.08 Mbit/s

95th percentile per-packet one-way delay: 123.975 ms

Loss rate: 0.05%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-05 18:24:30

End at: 2018-03-05 18:25:00

Below is generated by plot.py at 2018-03-06 00:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.76 Mbit/s

95th percentile per-packet one-way delay: 126.264 ms

Loss rate: 0.48%

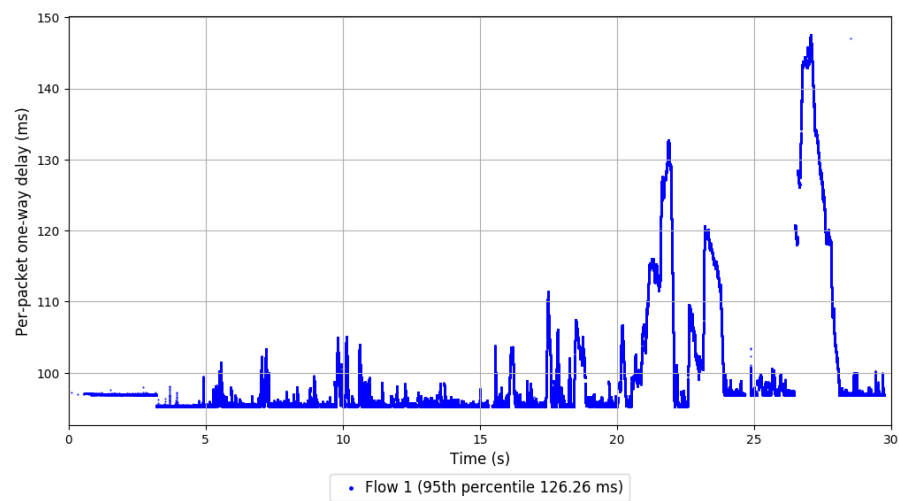
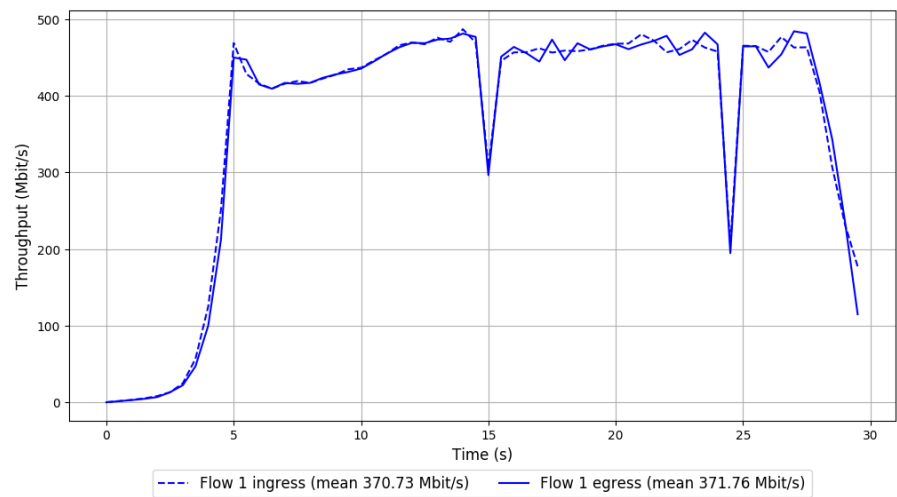
-- Flow 1:

Average throughput: 371.76 Mbit/s

95th percentile per-packet one-way delay: 126.264 ms

Loss rate: 0.48%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-05 18:40:48

End at: 2018-03-05 18:41:18

Below is generated by plot.py at 2018-03-06 00:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.41 Mbit/s

95th percentile per-packet one-way delay: 90.973 ms

Loss rate: 2.11%

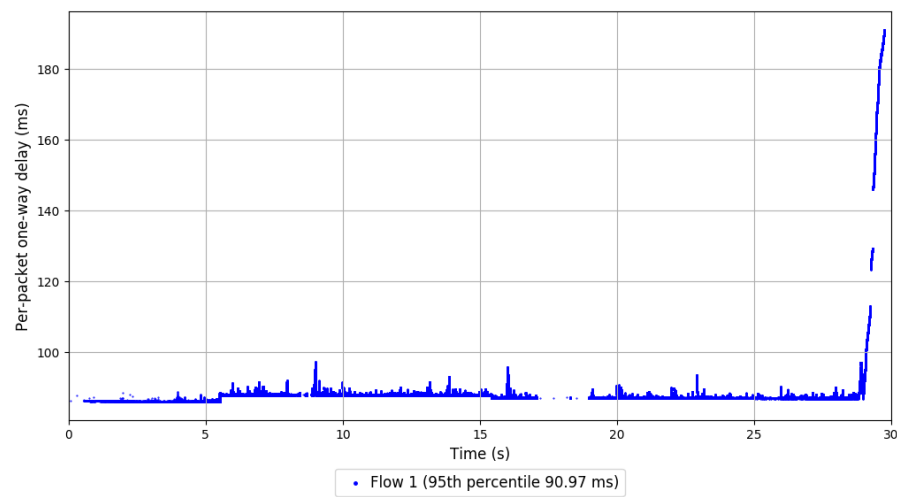
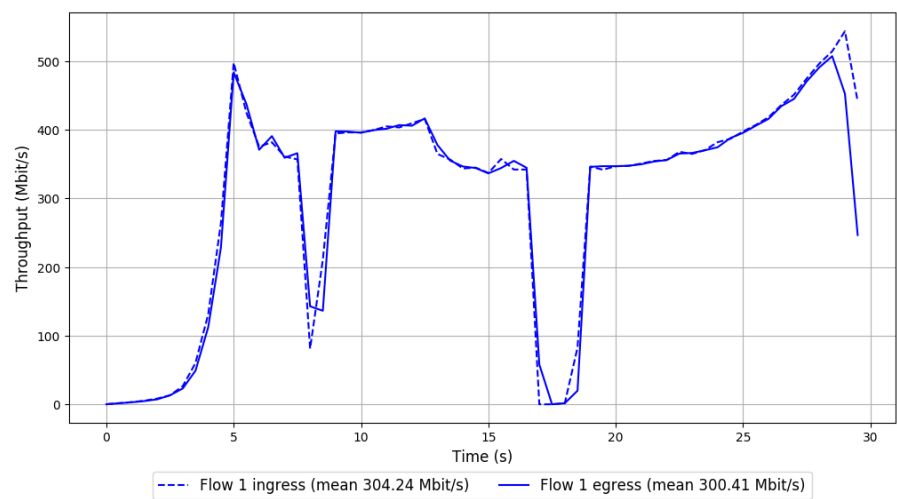
-- Flow 1:

Average throughput: 300.41 Mbit/s

95th percentile per-packet one-way delay: 90.973 ms

Loss rate: 2.11%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-05 18:57:36

End at: 2018-03-05 18:58:06

Below is generated by plot.py at 2018-03-06 00:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.02 Mbit/s

95th percentile per-packet one-way delay: 214.337 ms

Loss rate: 2.79%

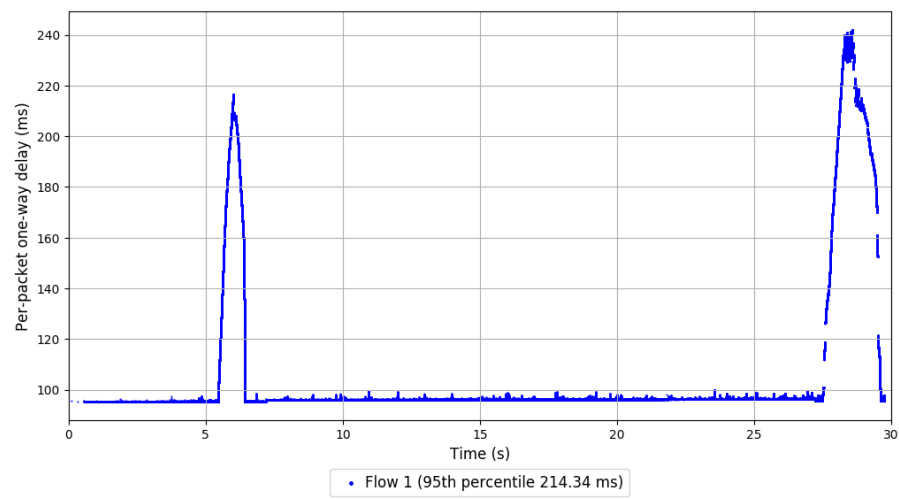
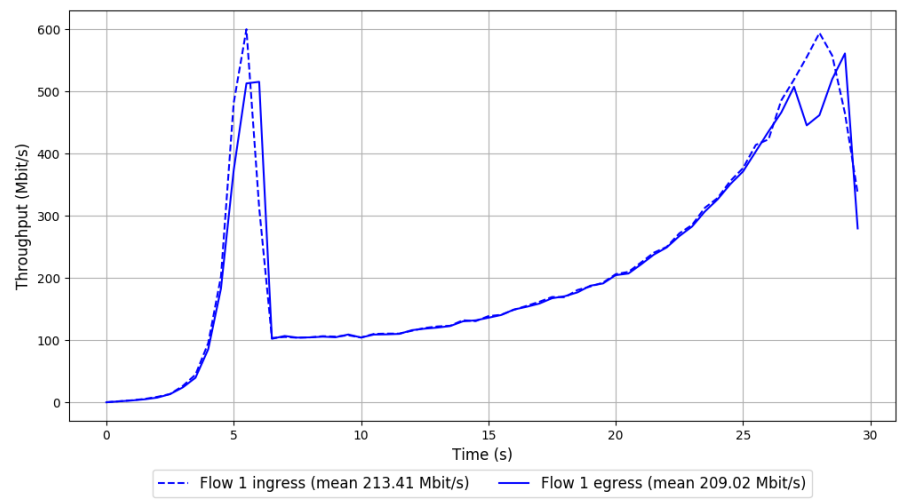
-- Flow 1:

Average throughput: 209.02 Mbit/s

95th percentile per-packet one-way delay: 214.337 ms

Loss rate: 2.79%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-05 19:13:13

End at: 2018-03-05 19:13:43

Below is generated by plot.py at 2018-03-06 00:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.11 Mbit/s

95th percentile per-packet one-way delay: 98.738 ms

Loss rate: 1.95%

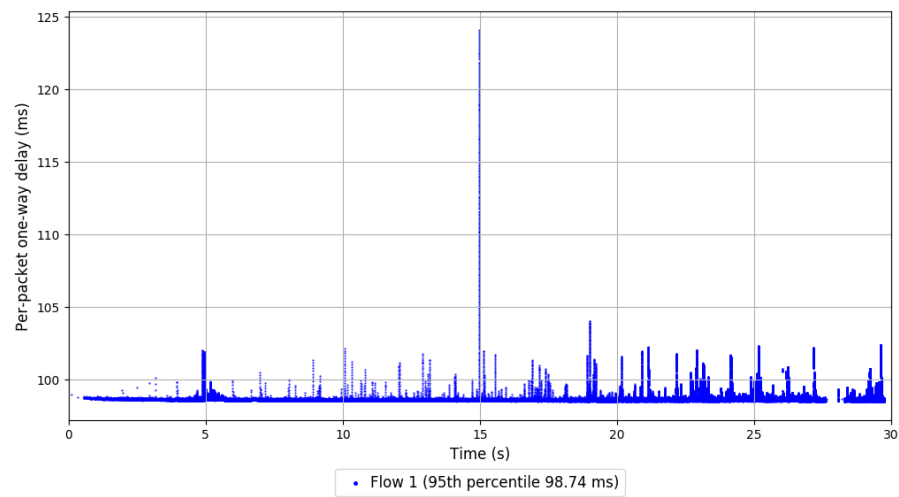
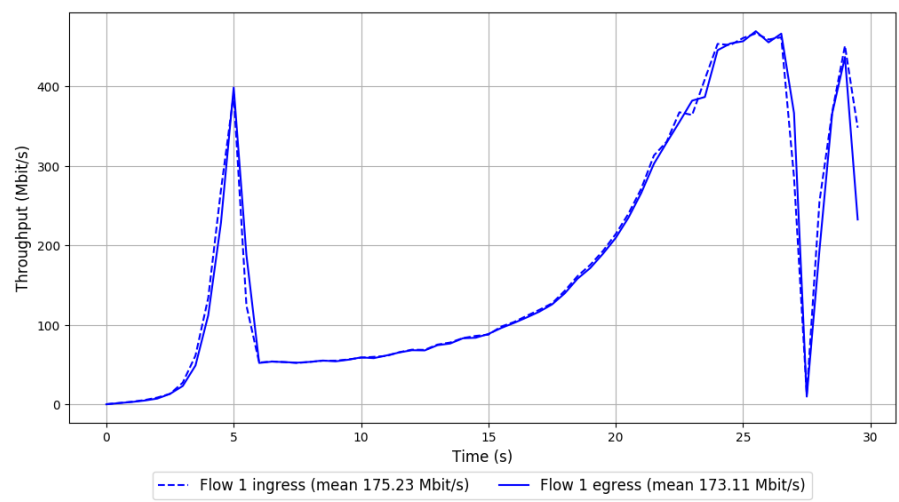
-- Flow 1:

Average throughput: 173.11 Mbit/s

95th percentile per-packet one-way delay: 98.738 ms

Loss rate: 1.95%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-05 19:28:35

End at: 2018-03-05 19:29:05

Below is generated by plot.py at 2018-03-06 00:03:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.27 Mbit/s

95th percentile per-packet one-way delay: 235.959 ms

Loss rate: 1.85%

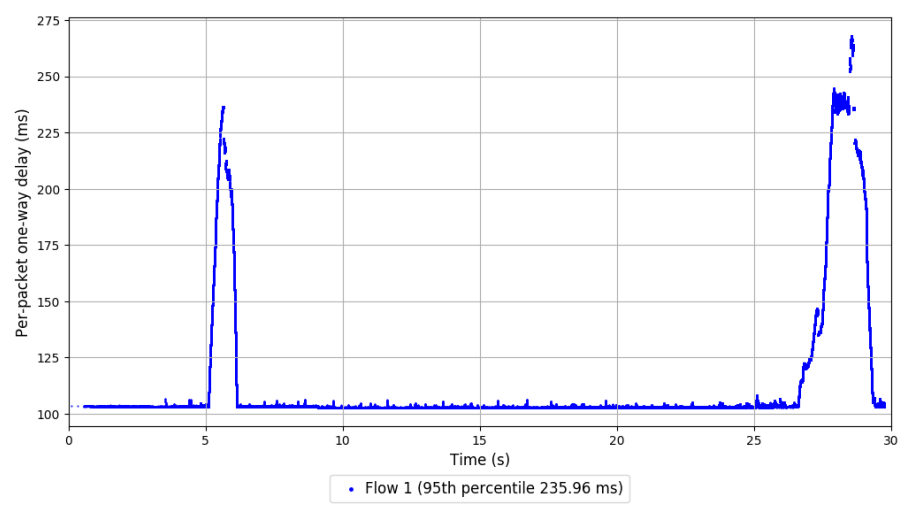
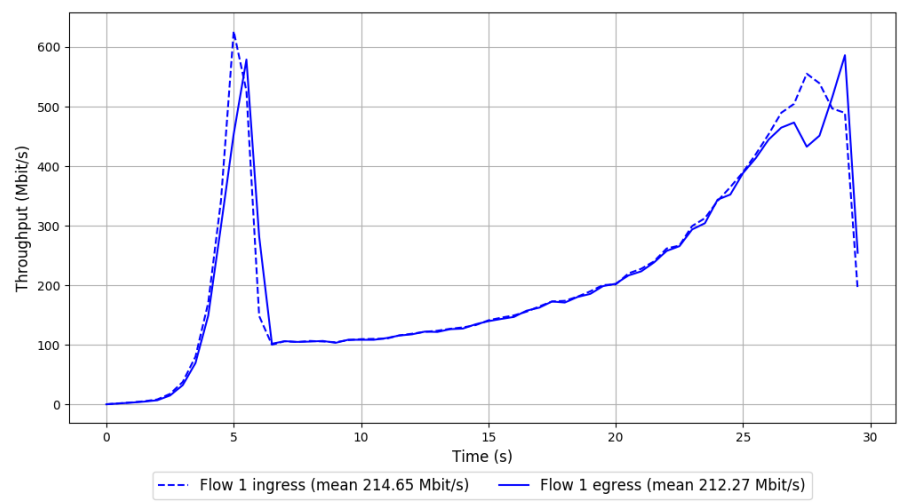
-- Flow 1:

Average throughput: 212.27 Mbit/s

95th percentile per-packet one-way delay: 235.959 ms

Loss rate: 1.85%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-05 19:43:49

End at: 2018-03-05 19:44:19

Below is generated by plot.py at 2018-03-06 00:06:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.25 Mbit/s

95th percentile per-packet one-way delay: 122.546 ms

Loss rate: 1.02%

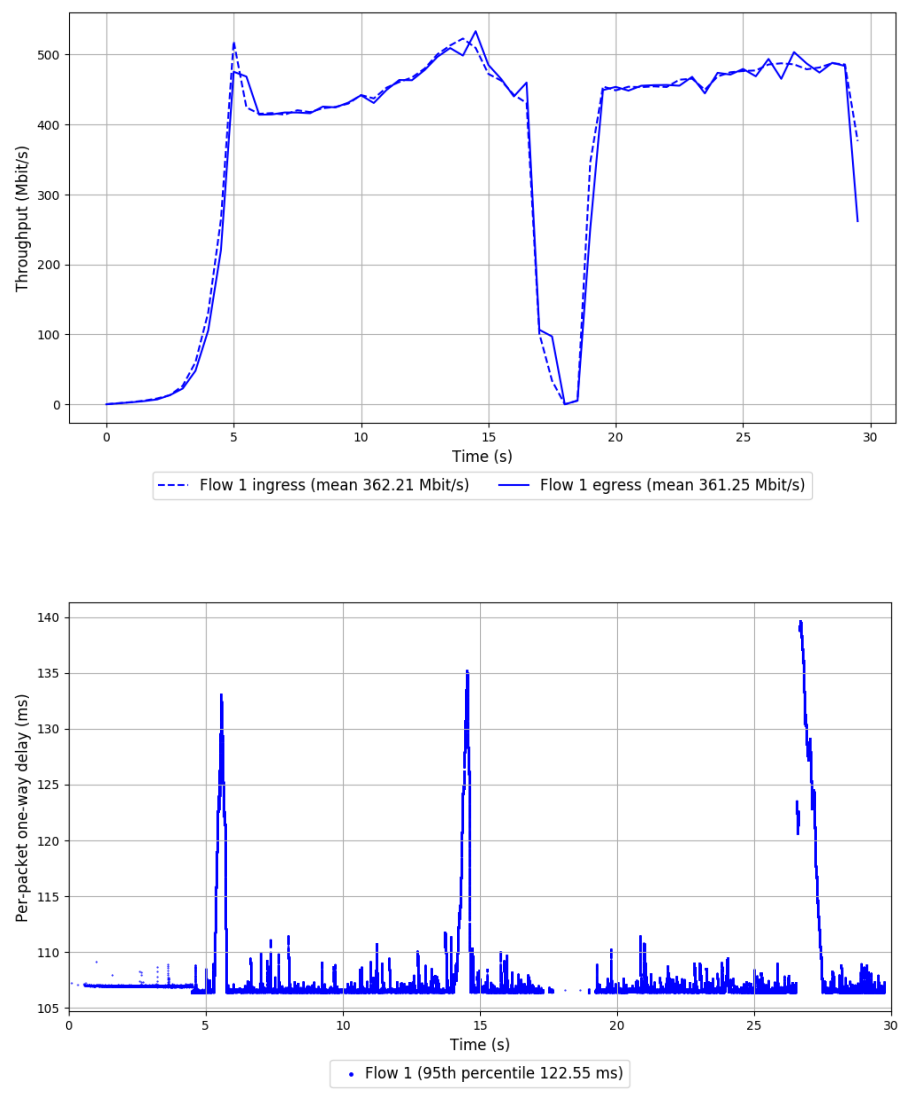
-- Flow 1:

Average throughput: 361.25 Mbit/s

95th percentile per-packet one-way delay: 122.546 ms

Loss rate: 1.02%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-05 19:59:13

End at: 2018-03-05 19:59:43

Below is generated by plot.py at 2018-03-06 00:06:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.70 Mbit/s

95th percentile per-packet one-way delay: 105.214 ms

Loss rate: 1.20%

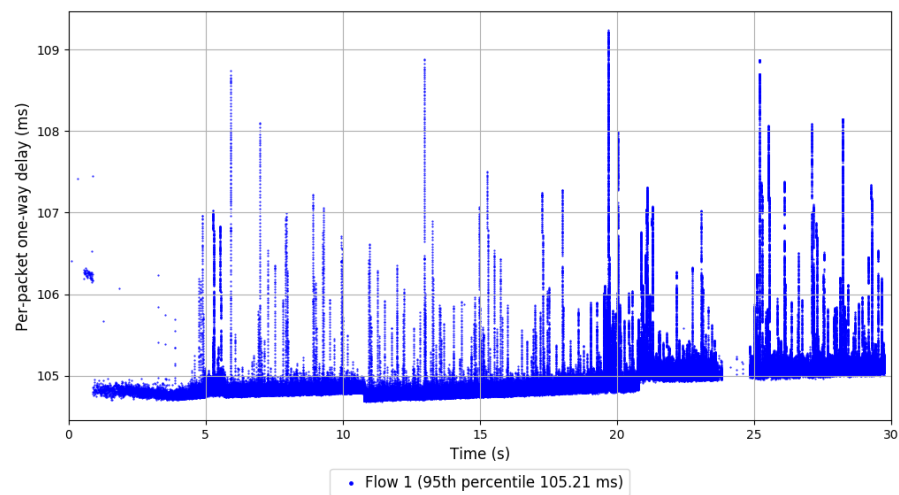
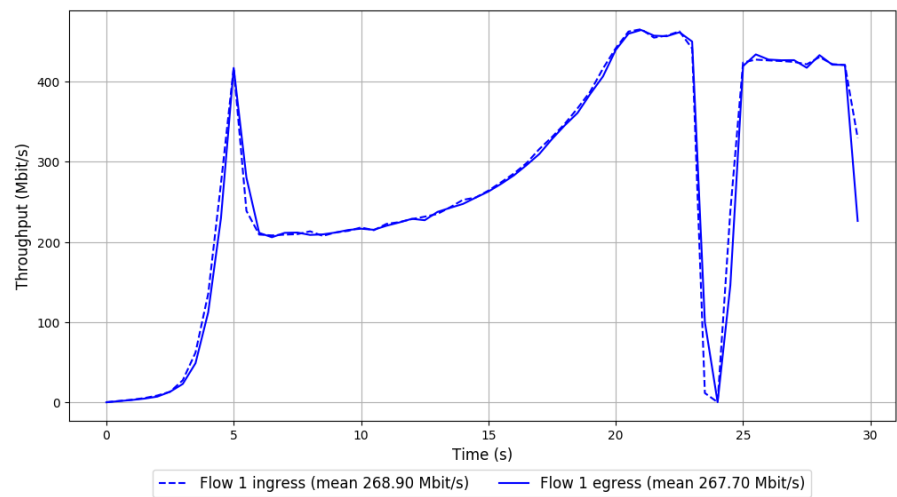
-- Flow 1:

Average throughput: 267.70 Mbit/s

95th percentile per-packet one-way delay: 105.214 ms

Loss rate: 1.20%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-05 20:14:43

End at: 2018-03-05 20:15:13

Below is generated by plot.py at 2018-03-06 00:09:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.07 Mbit/s

95th percentile per-packet one-way delay: 138.434 ms

Loss rate: 0.65%

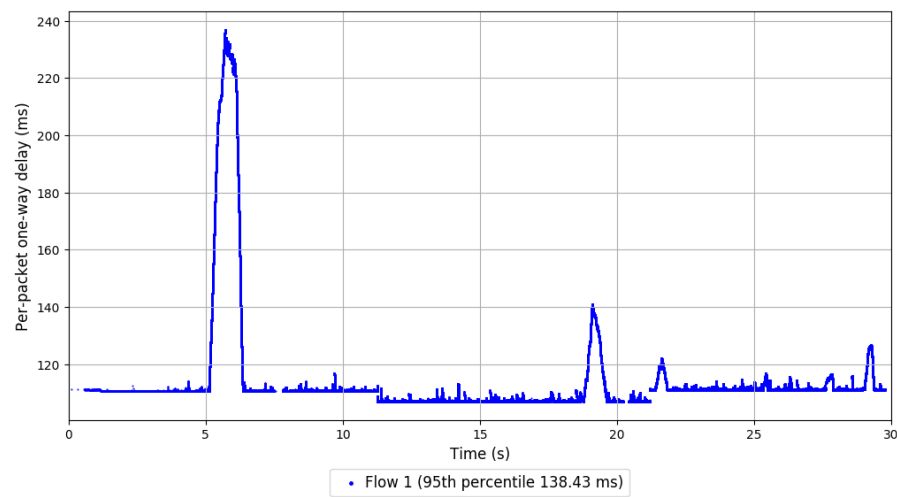
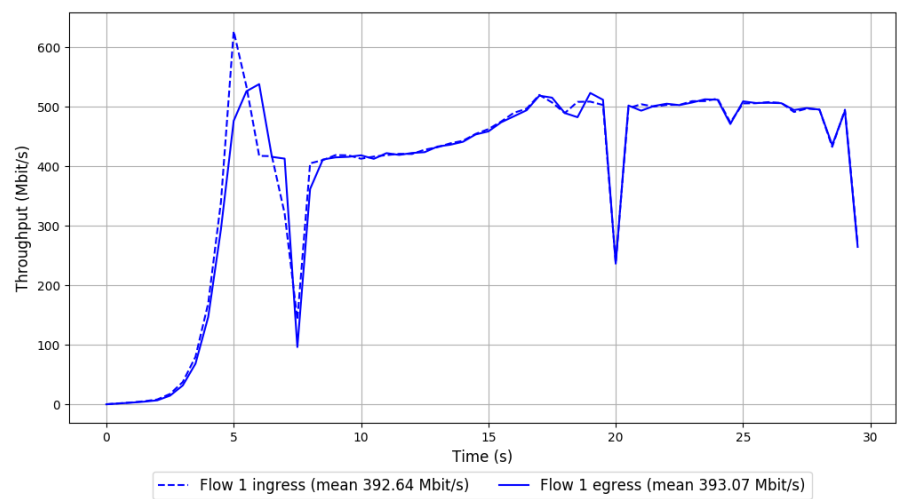
-- Flow 1:

Average throughput: 393.07 Mbit/s

95th percentile per-packet one-way delay: 138.434 ms

Loss rate: 0.65%

Run 10: Report of Vivace-loss — Data Link

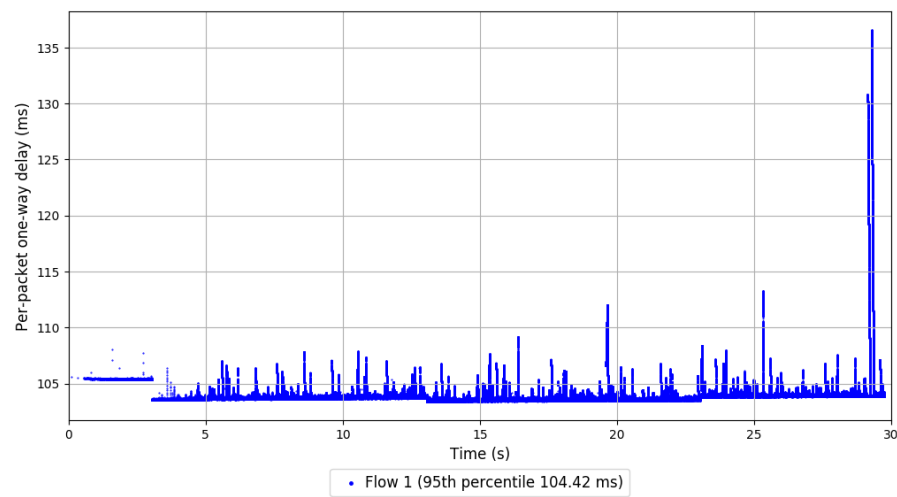
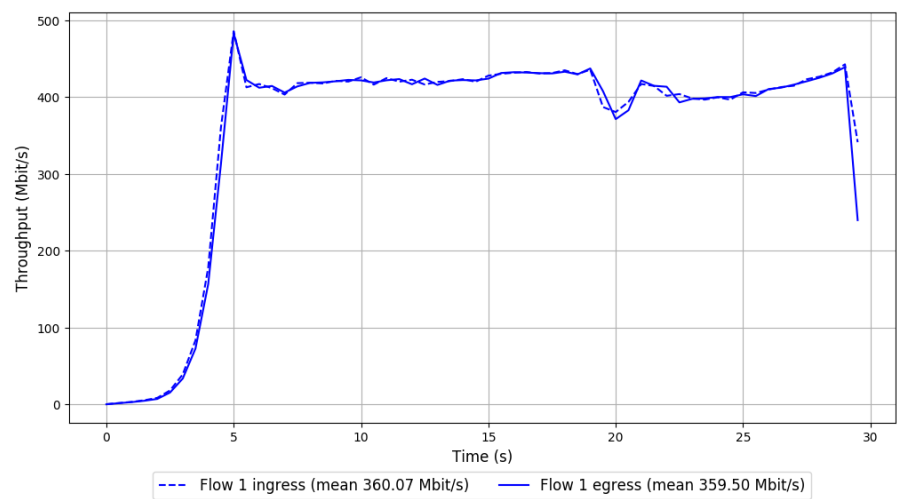


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-05 17:50:21
End at: 2018-03-05 17:50:51

# Below is generated by plot.py at 2018-03-06 00:09:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 359.50 Mbit/s
95th percentile per-packet one-way delay: 104.416 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 359.50 Mbit/s
95th percentile per-packet one-way delay: 104.416 ms
Loss rate: 0.91%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-05 18:06:11

End at: 2018-03-05 18:06:41

Below is generated by plot.py at 2018-03-06 00:09:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.98 Mbit/s

95th percentile per-packet one-way delay: 111.088 ms

Loss rate: 0.98%

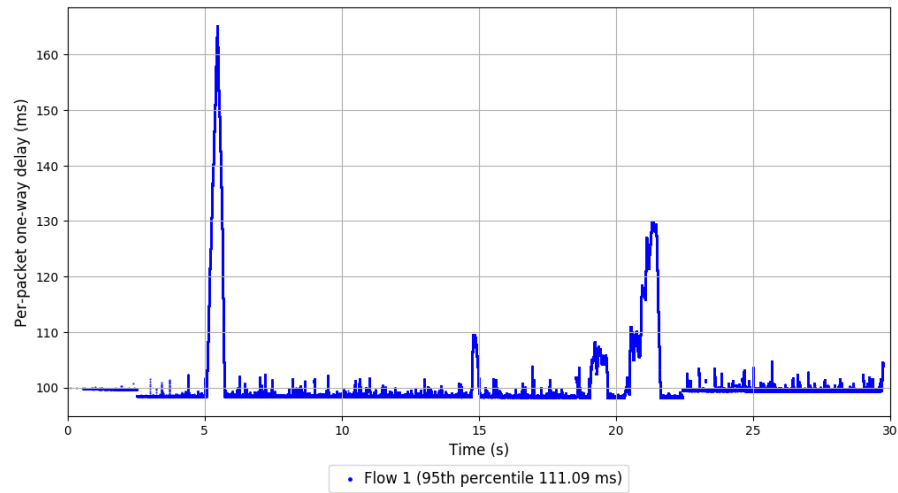
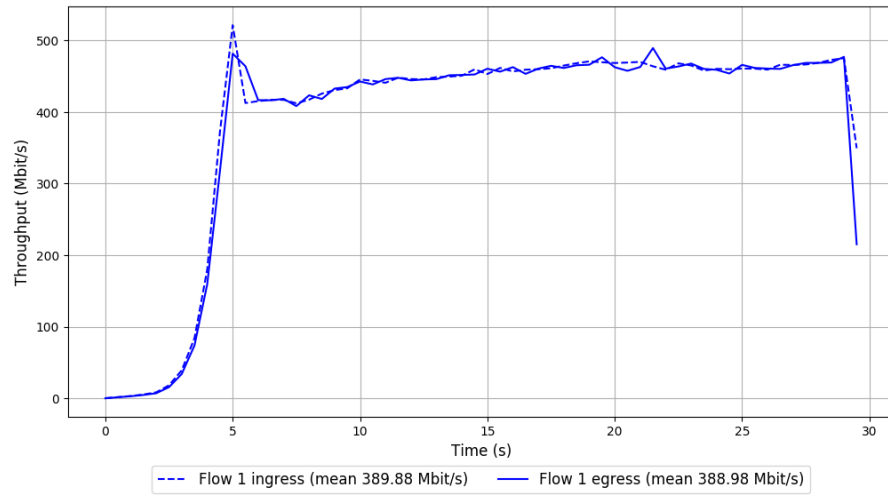
-- Flow 1:

Average throughput: 388.98 Mbit/s

95th percentile per-packet one-way delay: 111.088 ms

Loss rate: 0.98%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-05 18:21:45

End at: 2018-03-05 18:22:15

Below is generated by plot.py at 2018-03-06 00:09:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.46 Mbit/s

95th percentile per-packet one-way delay: 118.507 ms

Loss rate: 0.88%

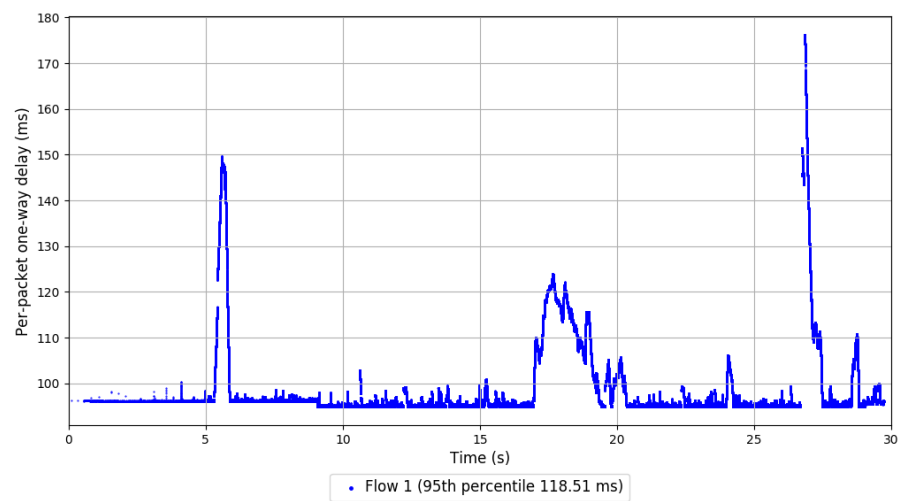
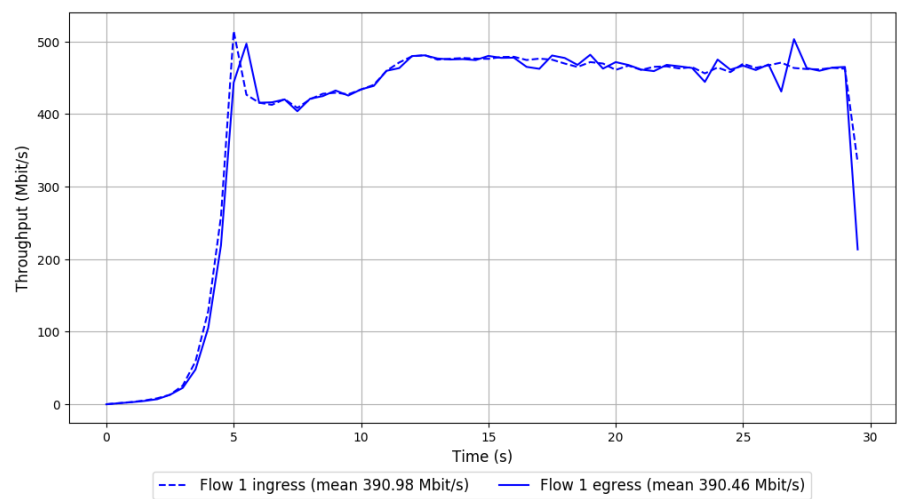
-- Flow 1:

Average throughput: 390.46 Mbit/s

95th percentile per-packet one-way delay: 118.507 ms

Loss rate: 0.88%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-05 18:38:08

End at: 2018-03-05 18:38:38

Below is generated by plot.py at 2018-03-06 00:10:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.71 Mbit/s

95th percentile per-packet one-way delay: 88.735 ms

Loss rate: 0.88%

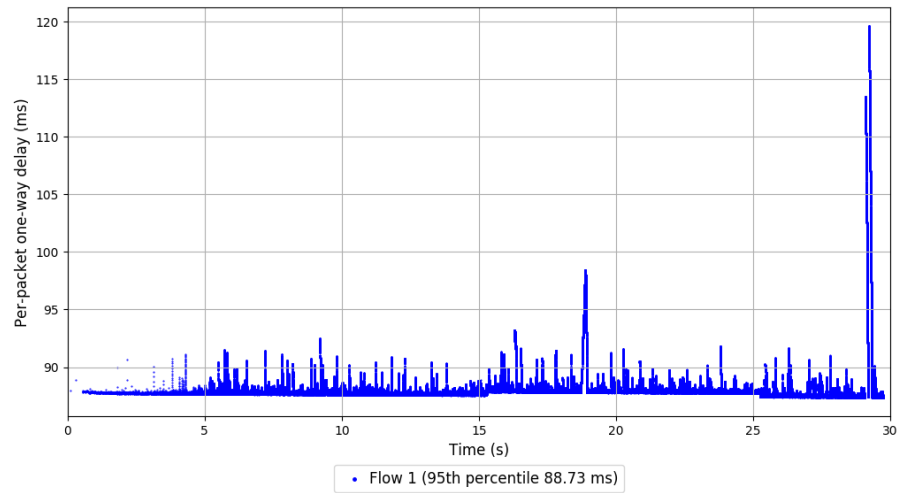
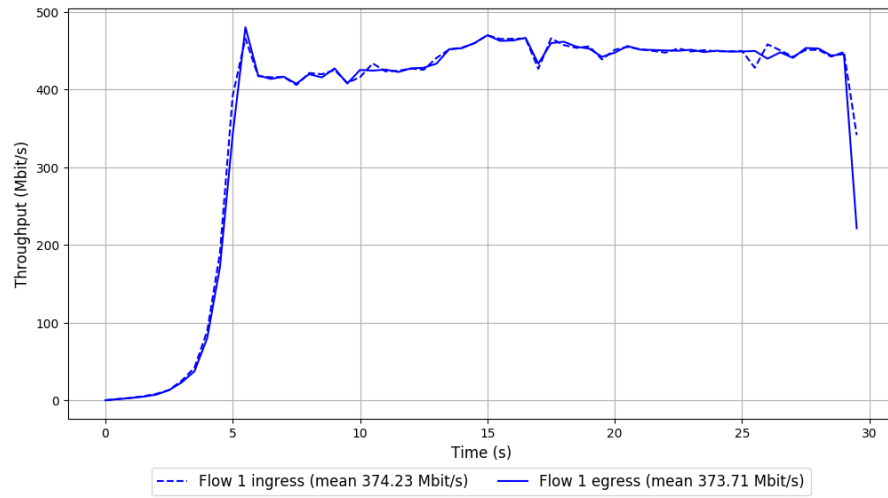
-- Flow 1:

Average throughput: 373.71 Mbit/s

95th percentile per-packet one-way delay: 88.735 ms

Loss rate: 0.88%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-05 18:54:37

End at: 2018-03-05 18:55:07

Below is generated by plot.py at 2018-03-06 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.01 Mbit/s

95th percentile per-packet one-way delay: 95.471 ms

Loss rate: 0.95%

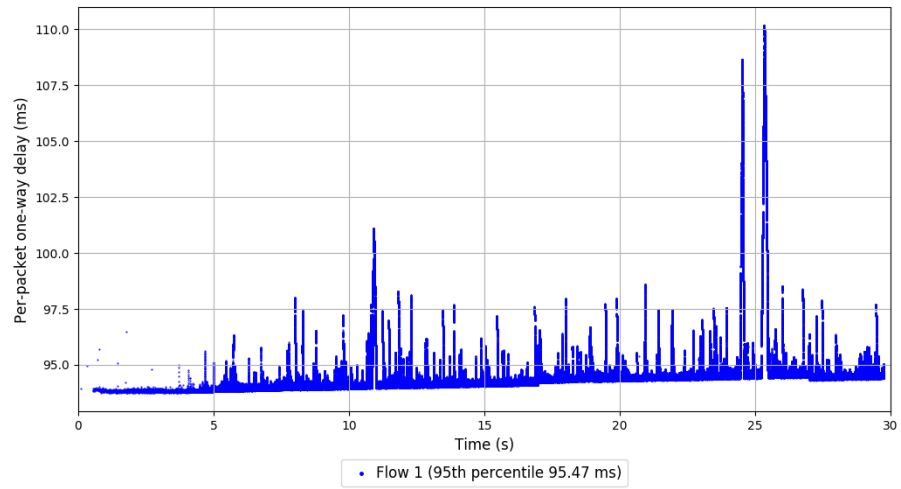
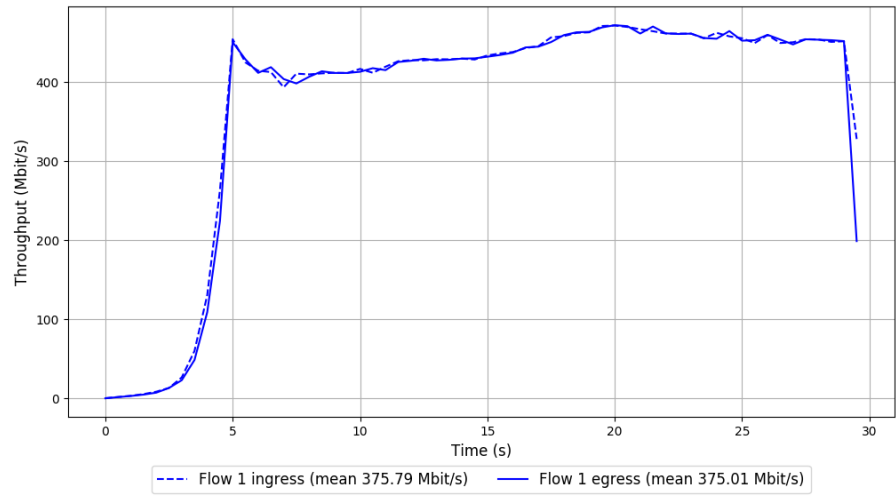
-- Flow 1:

Average throughput: 375.01 Mbit/s

95th percentile per-packet one-way delay: 95.471 ms

Loss rate: 0.95%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-05 19:10:32

End at: 2018-03-05 19:11:02

Below is generated by plot.py at 2018-03-06 00:10:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.10 Mbit/s

95th percentile per-packet one-way delay: 101.604 ms

Loss rate: 0.44%

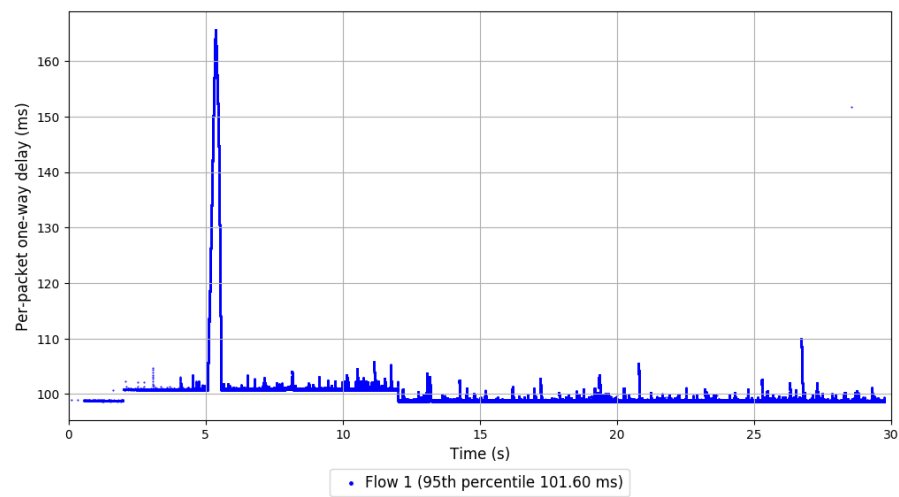
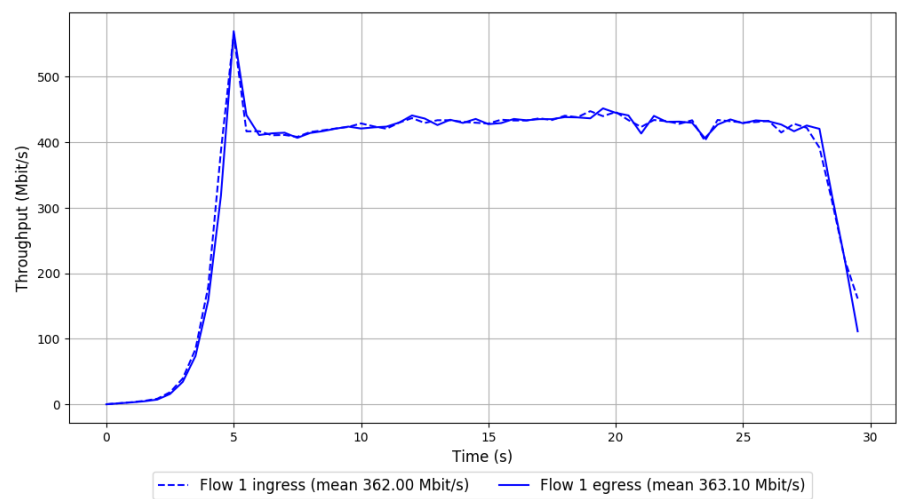
-- Flow 1:

Average throughput: 363.10 Mbit/s

95th percentile per-packet one-way delay: 101.604 ms

Loss rate: 0.44%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-05 19:25:58

End at: 2018-03-05 19:26:28

Below is generated by plot.py at 2018-03-06 00:11:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.78 Mbit/s

95th percentile per-packet one-way delay: 115.168 ms

Loss rate: 0.93%

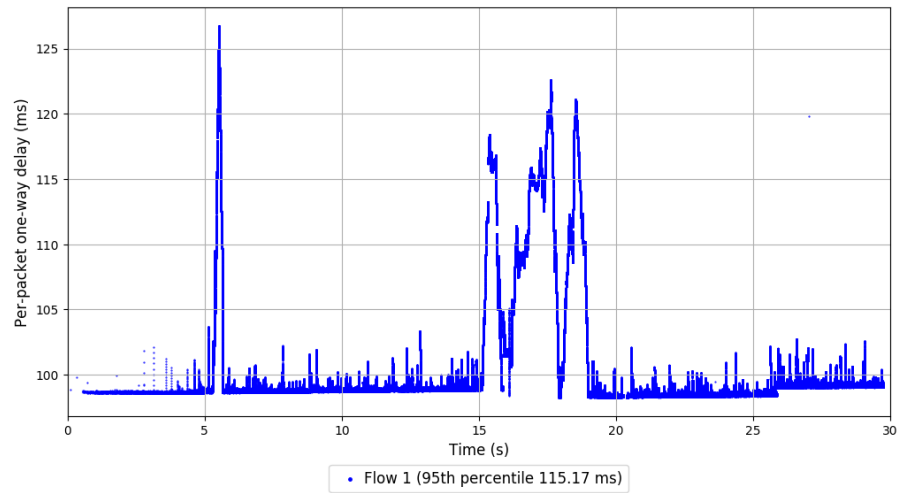
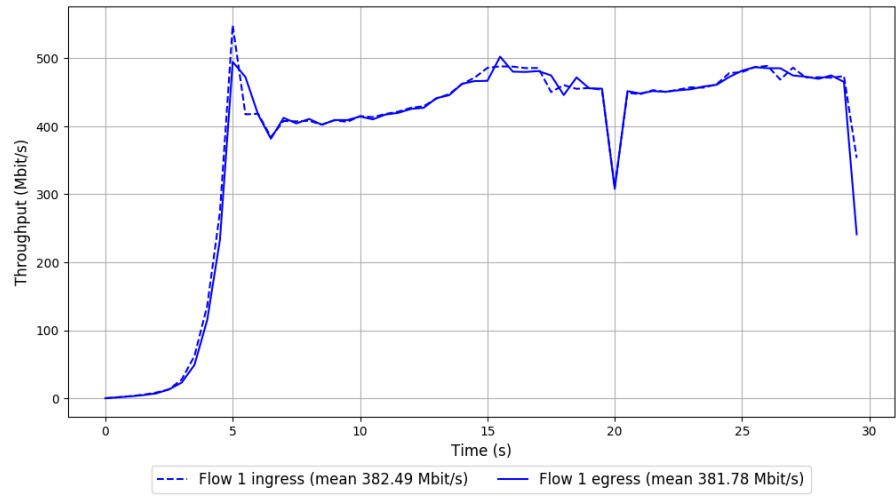
-- Flow 1:

Average throughput: 381.78 Mbit/s

95th percentile per-packet one-way delay: 115.168 ms

Loss rate: 0.93%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-05 19:41:09

End at: 2018-03-05 19:41:39

Below is generated by plot.py at 2018-03-06 00:12:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.58 Mbit/s

95th percentile per-packet one-way delay: 108.302 ms

Loss rate: 0.91%

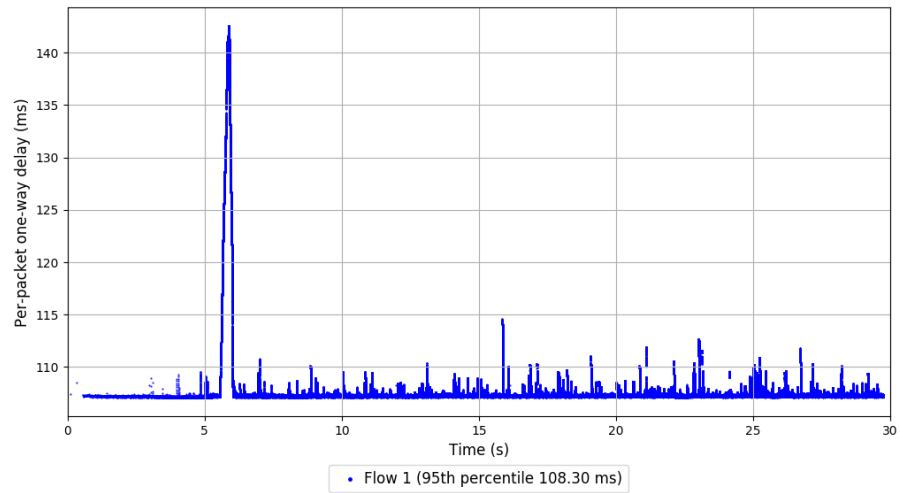
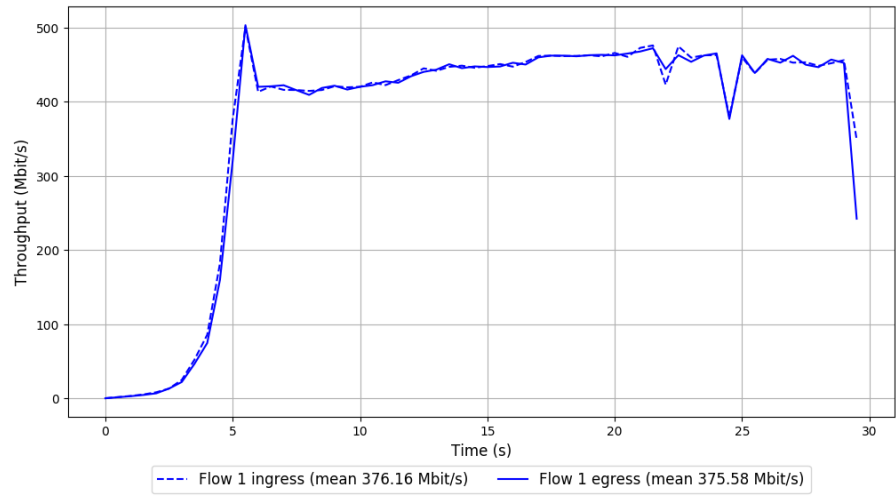
-- Flow 1:

Average throughput: 375.58 Mbit/s

95th percentile per-packet one-way delay: 108.302 ms

Loss rate: 0.91%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-05 19:56:44

End at: 2018-03-05 19:57:14

Below is generated by plot.py at 2018-03-06 00:12:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.63 Mbit/s

95th percentile per-packet one-way delay: 150.654 ms

Loss rate: 1.68%

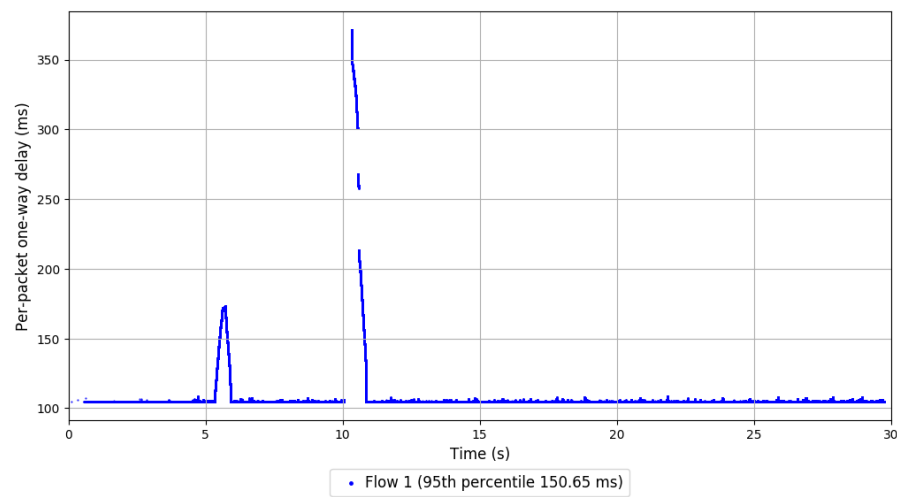
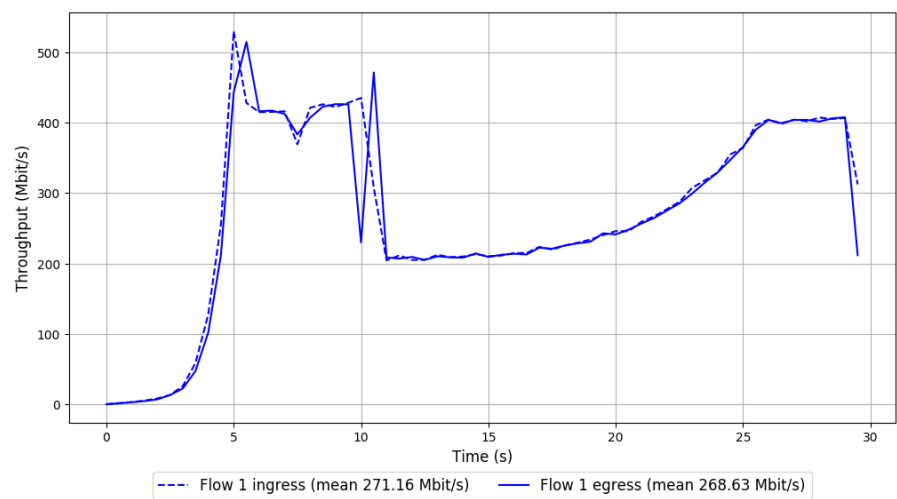
-- Flow 1:

Average throughput: 268.63 Mbit/s

95th percentile per-packet one-way delay: 150.654 ms

Loss rate: 1.68%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-05 20:12:06

End at: 2018-03-05 20:12:36

Below is generated by plot.py at 2018-03-06 00:12:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.83 Mbit/s

95th percentile per-packet one-way delay: 111.385 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 369.83 Mbit/s

95th percentile per-packet one-way delay: 111.385 ms

Loss rate: 0.94%

Run 10: Report of Vivace-LTE — Data Link

