

Pantheon Report

Generated at 2018-03-06 15:51:31 (UTC).

Data path: GCE London Ethernet (*remote*) → GCE Sydney Ethernet (*local*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

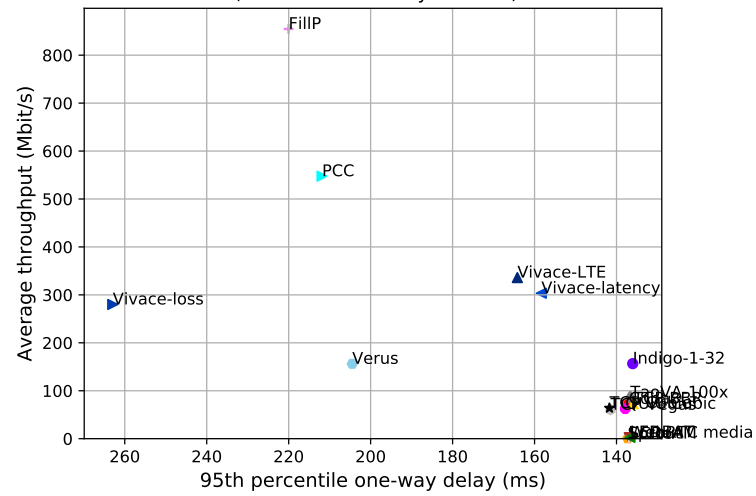
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

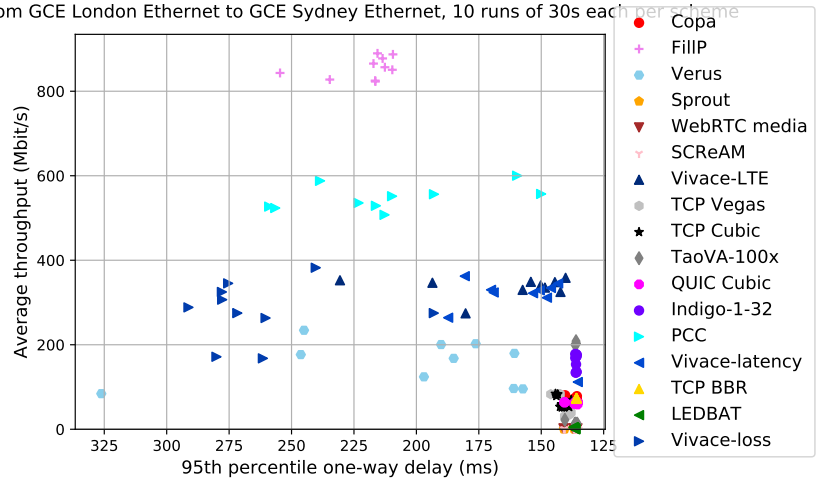
Git summary:

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



test from GCE London Ethernet to GCE Sydney 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	73.15	135.92	1.01
TCP Cubic	10	63.95	141.73	1.17
LEDBAT	10	2.75	136.72	2.14
PCC	10	547.53	211.85	2.45
QUIC Cubic	10	62.41	137.87	1.23
SCReAM	10	0.22	136.92	0.91
WebRTC media	10	2.08	136.89	1.06
Sprout	10	0.41	137.29	0.90
TaoVA-100x	8	85.81	136.64	0.90
TCP Vegas	10	60.48	141.46	0.98
Verus	10	156.16	204.50	1.97
Copa	10	72.66	137.00	0.97
FillP	10	854.66	220.02	5.01
Indigo-1-32	10	156.59	136.04	0.93
Vivace-latency	10	303.36	158.35	1.57
Vivace-loss	10	280.02	262.92	3.78
Vivace-LTE	10	336.06	164.19	1.38

Run 1: Statistics of TCP BBR

Start at: 2018-03-06 09:30:58

End at: 2018-03-06 09:31:28

Below is generated by plot.py at 2018-03-06 14:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 135.829 ms

Loss rate: 1.08%

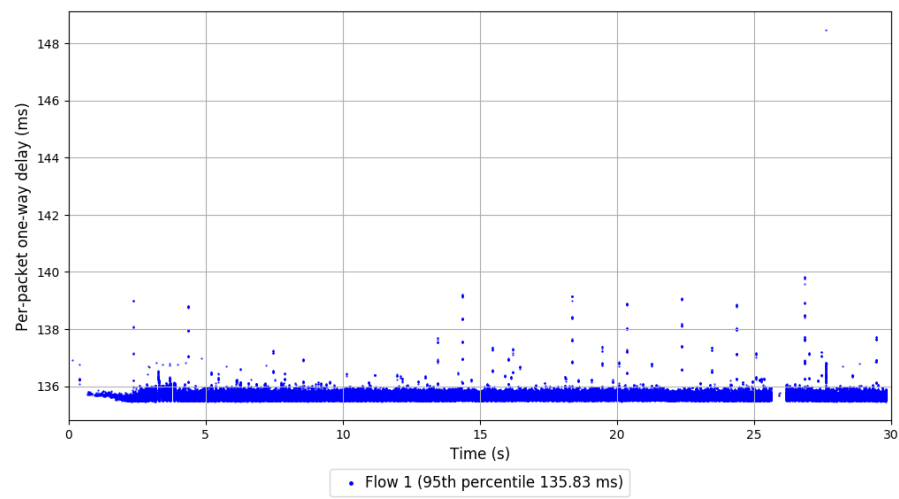
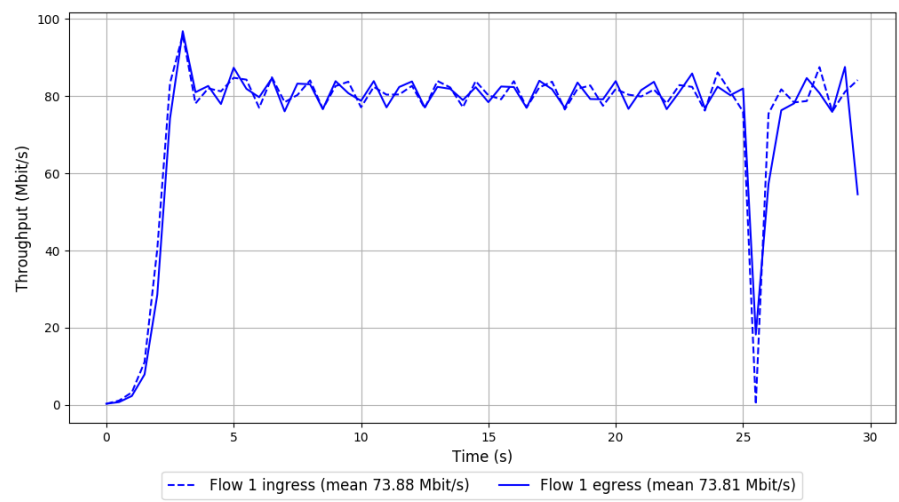
-- Flow 1:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 135.829 ms

Loss rate: 1.08%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-06 09:46:48

End at: 2018-03-06 09:47:18

Below is generated by plot.py at 2018-03-06 14:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.50 Mbit/s

95th percentile per-packet one-way delay: 135.997 ms

Loss rate: 0.99%

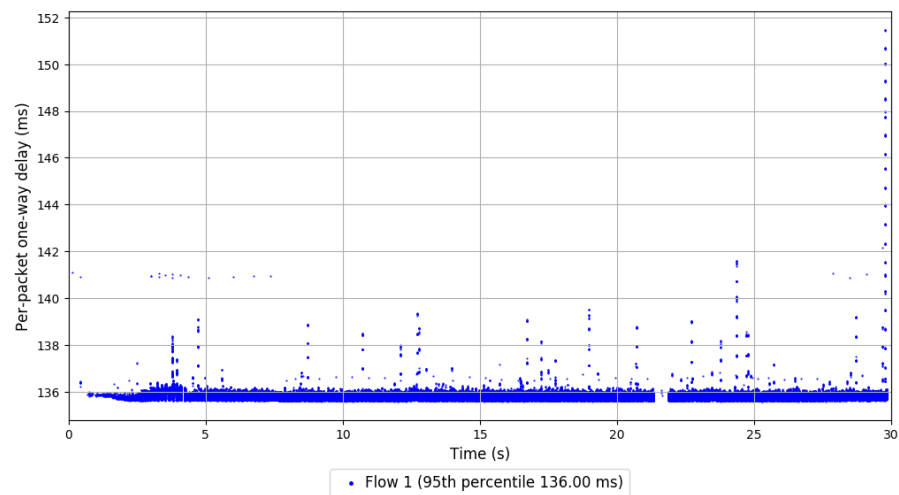
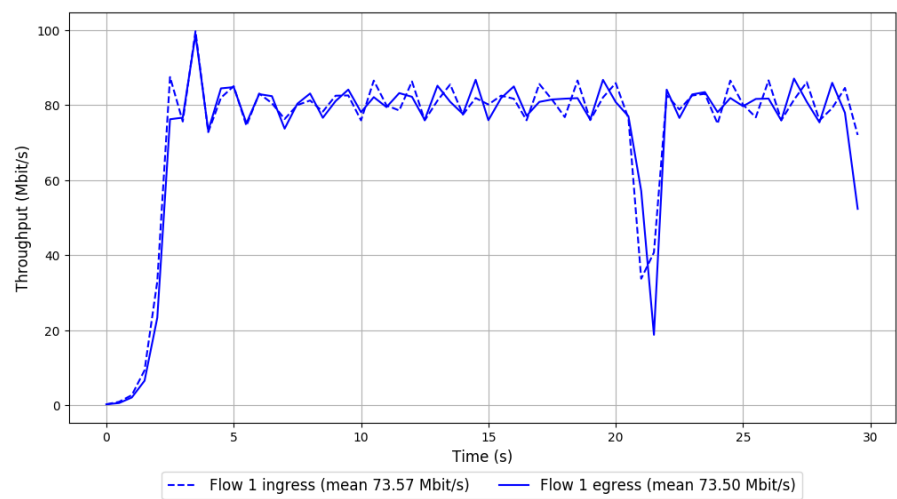
-- Flow 1:

Average throughput: 73.50 Mbit/s

95th percentile per-packet one-way delay: 135.997 ms

Loss rate: 0.99%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

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

End at: 2018-03-06 10:03:38

Below is generated by plot.py at 2018-03-06 14:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.23 Mbit/s

95th percentile per-packet one-way delay: 136.012 ms

Loss rate: 1.07%

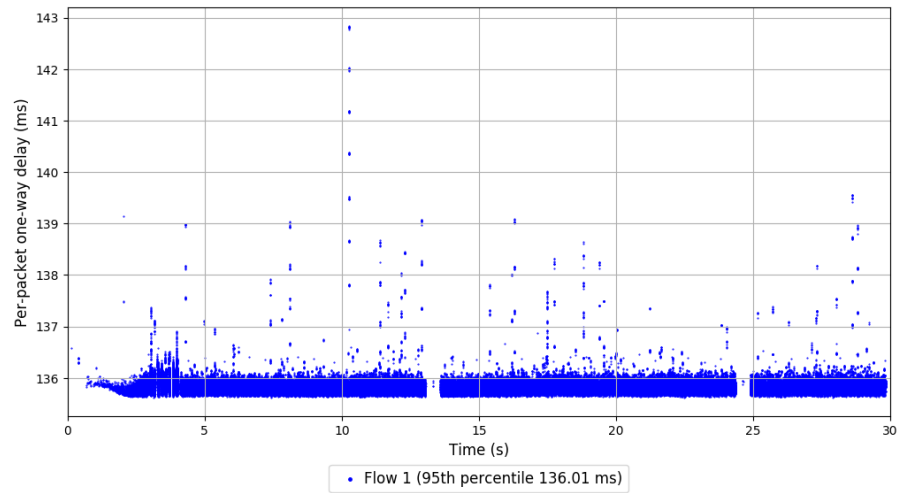
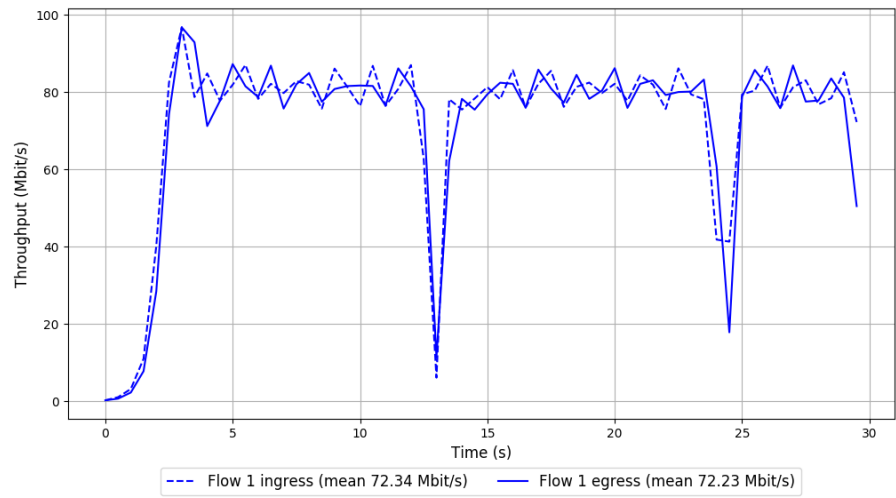
-- Flow 1:

Average throughput: 72.23 Mbit/s

95th percentile per-packet one-way delay: 136.012 ms

Loss rate: 1.07%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-06 10:19:06

End at: 2018-03-06 10:19:36

Below is generated by plot.py at 2018-03-06 14:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.19 Mbit/s

95th percentile per-packet one-way delay: 135.978 ms

Loss rate: 0.96%

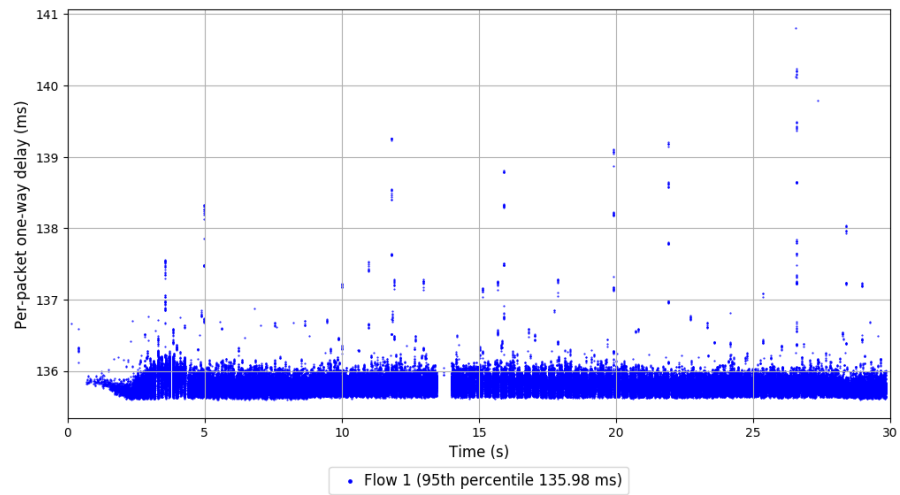
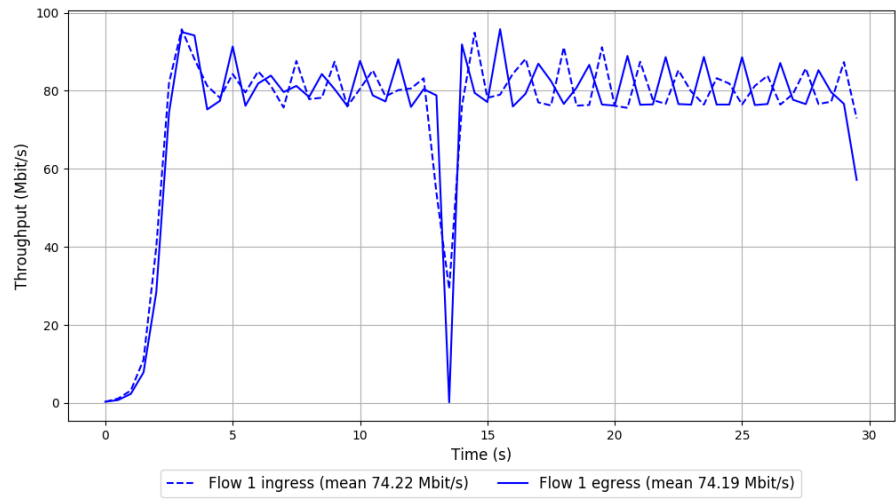
-- Flow 1:

Average throughput: 74.19 Mbit/s

95th percentile per-packet one-way delay: 135.978 ms

Loss rate: 0.96%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-06 10:35:13

End at: 2018-03-06 10:35:43

Below is generated by plot.py at 2018-03-06 14:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 136.011 ms

Loss rate: 0.98%

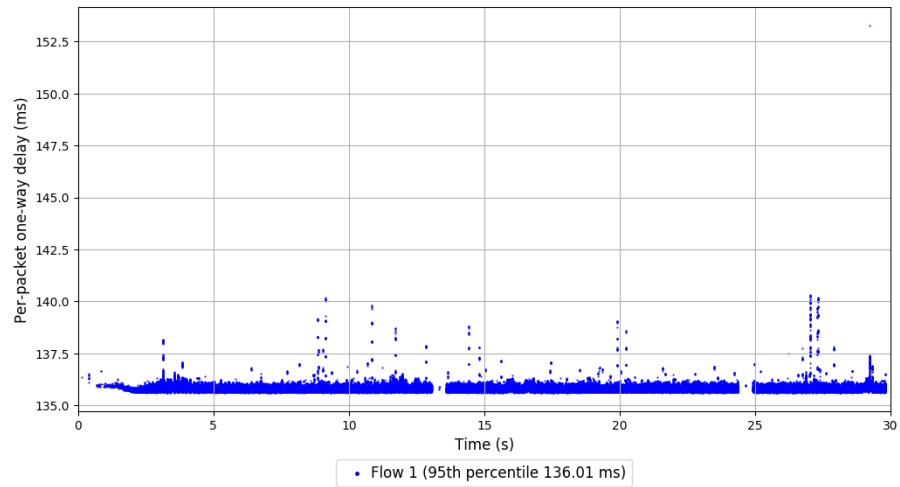
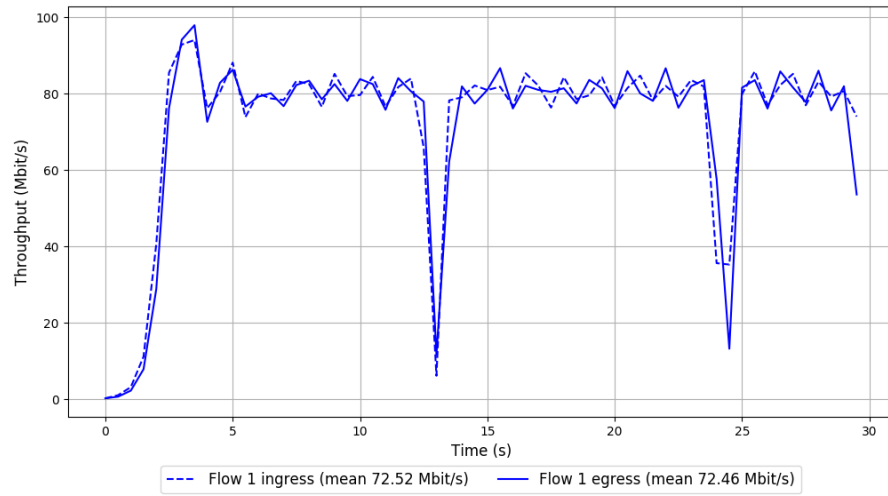
-- Flow 1:

Average throughput: 72.46 Mbit/s

95th percentile per-packet one-way delay: 136.011 ms

Loss rate: 0.98%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-06 10:51:20

End at: 2018-03-06 10:51:50

Below is generated by plot.py at 2018-03-06 14:45:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 135.932 ms

Loss rate: 0.99%

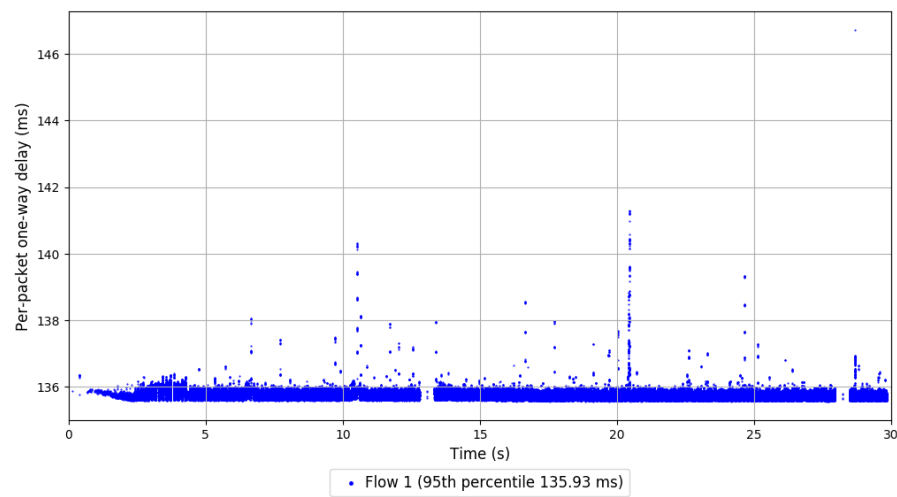
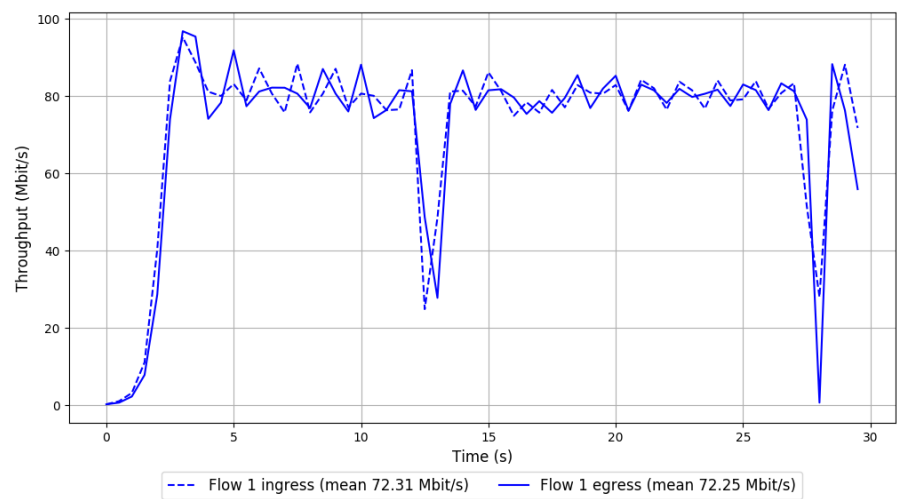
-- Flow 1:

Average throughput: 72.25 Mbit/s

95th percentile per-packet one-way delay: 135.932 ms

Loss rate: 0.99%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-06 11:07:18

End at: 2018-03-06 11:07:48

Below is generated by plot.py at 2018-03-06 14:45:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.75 Mbit/s

95th percentile per-packet one-way delay: 135.844 ms

Loss rate: 1.01%

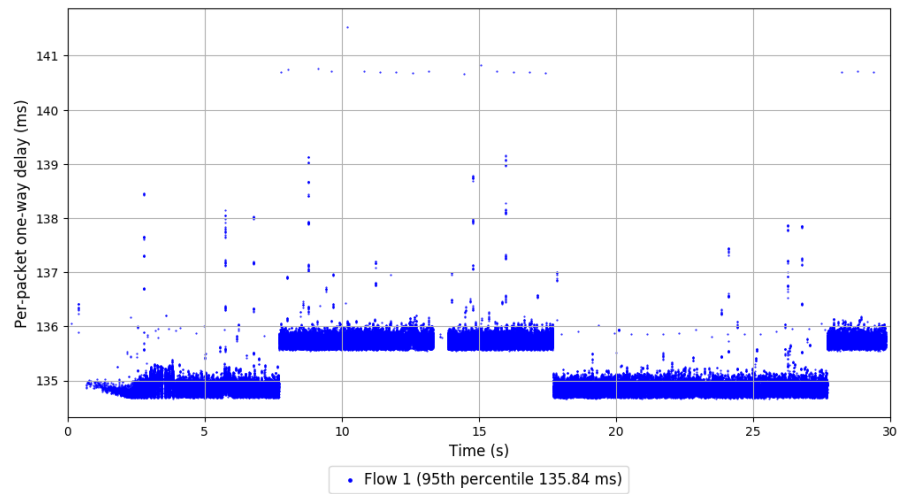
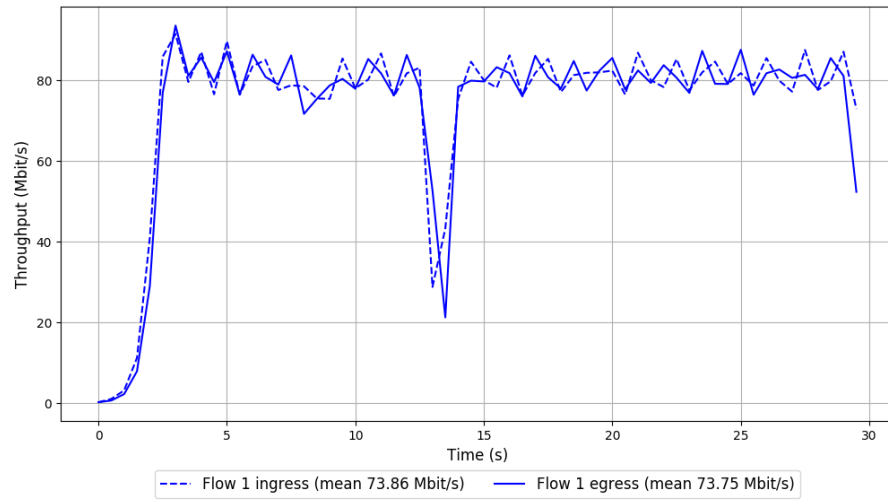
-- Flow 1:

Average throughput: 73.75 Mbit/s

95th percentile per-packet one-way delay: 135.844 ms

Loss rate: 1.01%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-06 11:23:08

End at: 2018-03-06 11:23:38

Below is generated by plot.py at 2018-03-06 14:45:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 135.913 ms

Loss rate: 1.03%

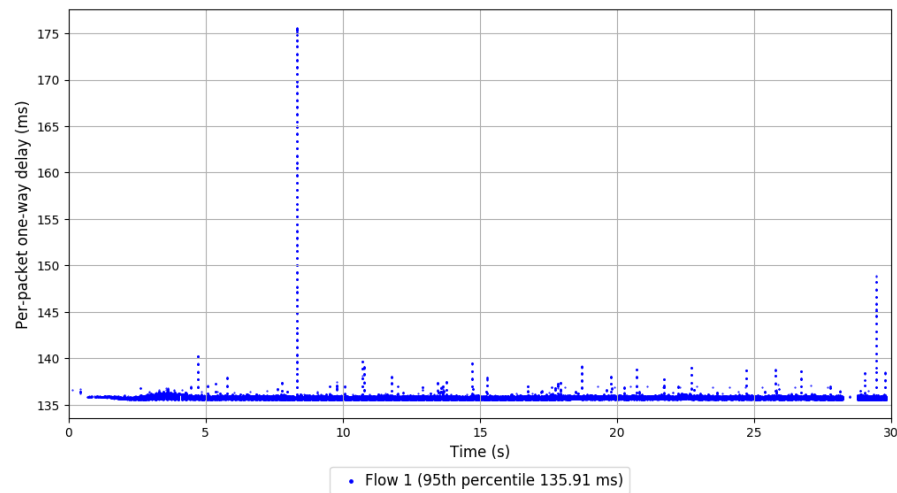
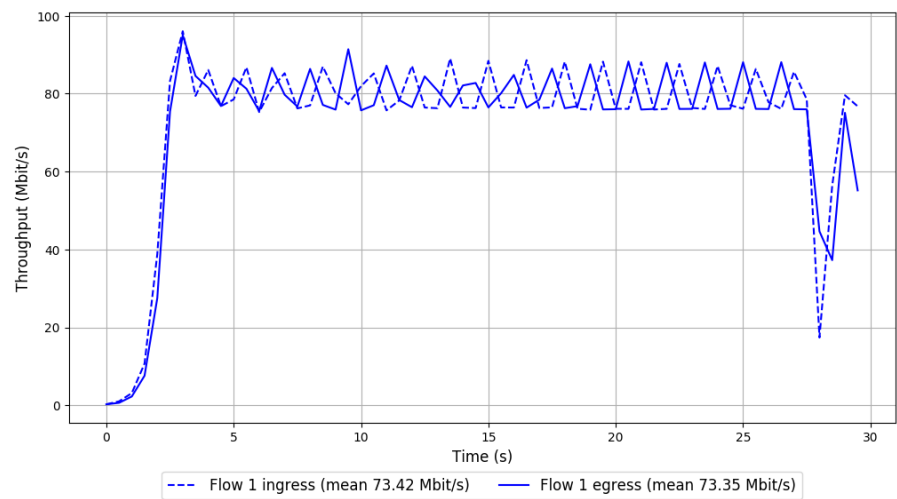
-- Flow 1:

Average throughput: 73.35 Mbit/s

95th percentile per-packet one-way delay: 135.913 ms

Loss rate: 1.03%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-06 11:39:21

End at: 2018-03-06 11:39:51

Below is generated by plot.py at 2018-03-06 14:46:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.91 Mbit/s

95th percentile per-packet one-way delay: 135.903 ms

Loss rate: 1.00%

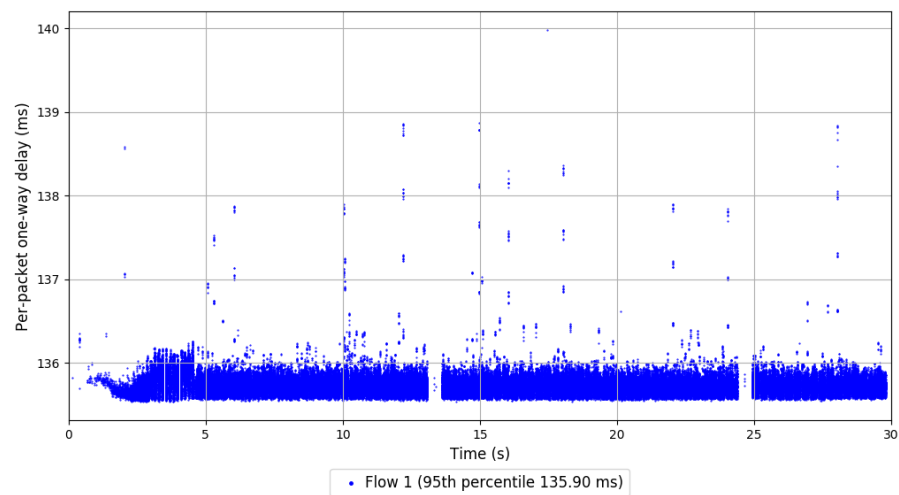
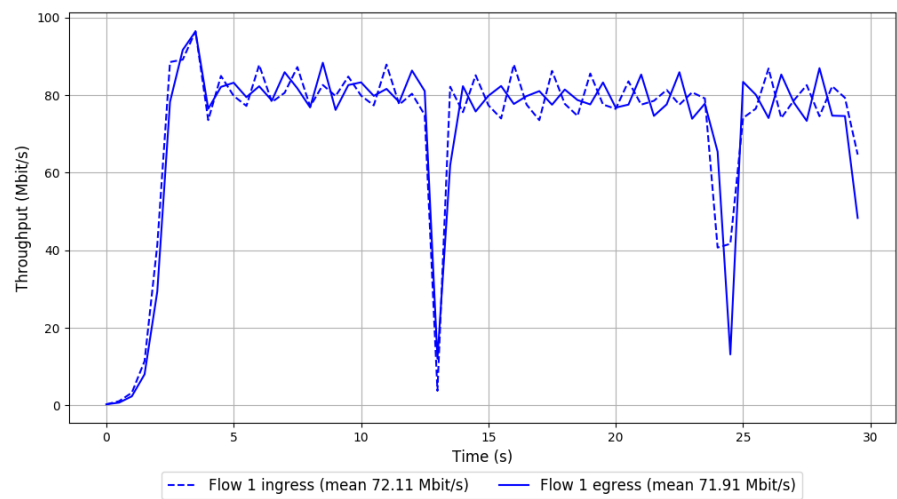
-- Flow 1:

Average throughput: 71.91 Mbit/s

95th percentile per-packet one-way delay: 135.903 ms

Loss rate: 1.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-06 11:55:16

End at: 2018-03-06 11:55:46

Below is generated by plot.py at 2018-03-06 14:46:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 135.804 ms

Loss rate: 0.96%

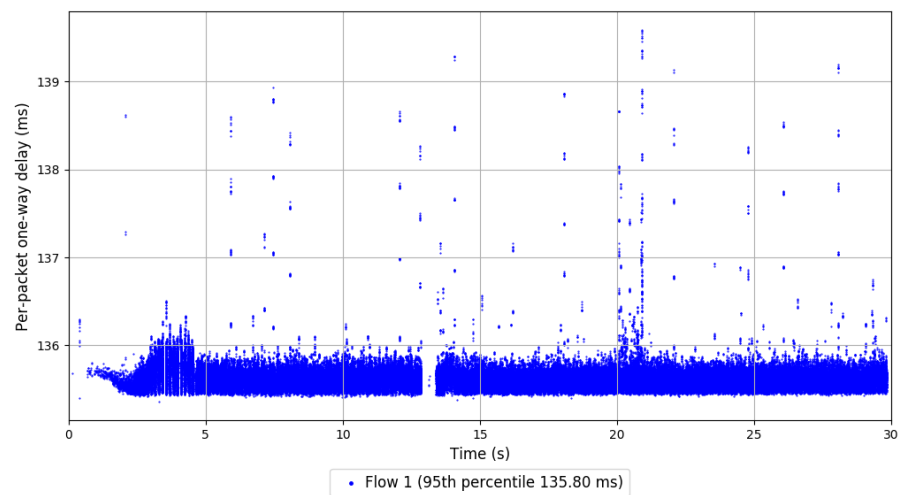
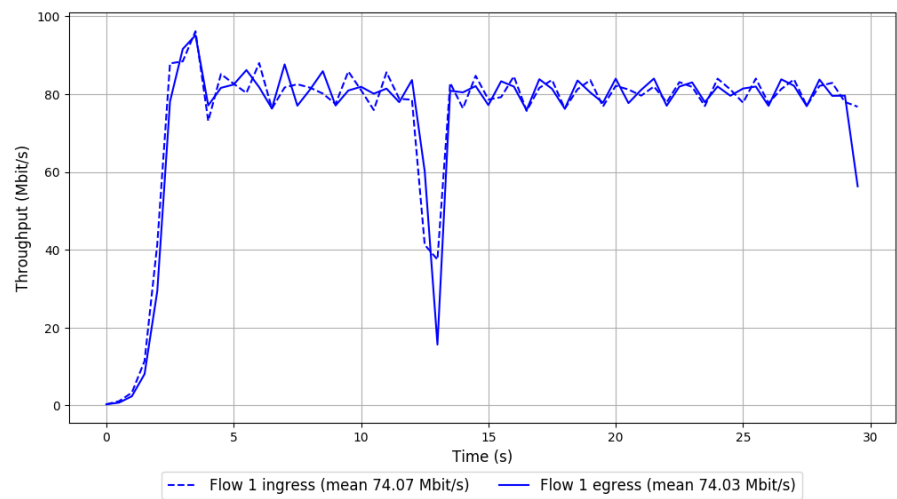
-- Flow 1:

Average throughput: 74.03 Mbit/s

95th percentile per-packet one-way delay: 135.804 ms

Loss rate: 0.96%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-06 09:28:40

End at: 2018-03-06 09:29:10

Below is generated by plot.py at 2018-03-06 14:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 144.277 ms

Loss rate: 0.98%

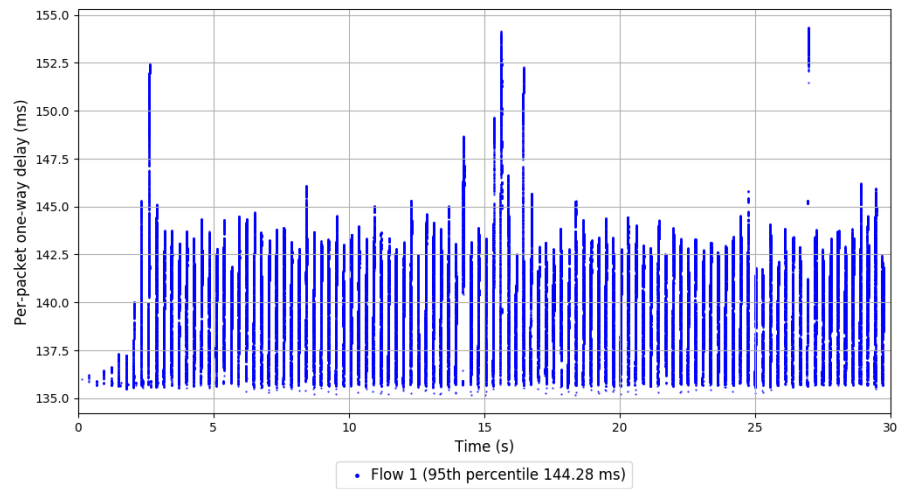
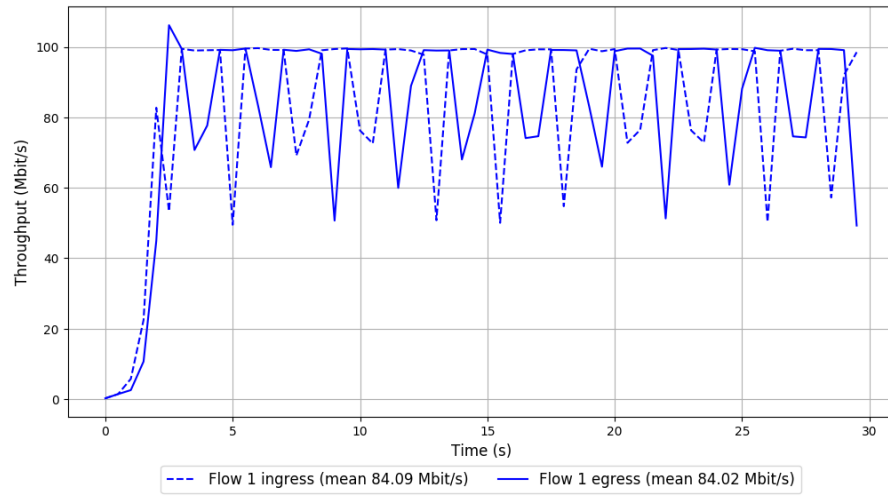
-- Flow 1:

Average throughput: 84.02 Mbit/s

95th percentile per-packet one-way delay: 144.277 ms

Loss rate: 0.98%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-06 09:44:34

End at: 2018-03-06 09:45:04

Below is generated by plot.py at 2018-03-06 14:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 140.825 ms

Loss rate: 0.94%

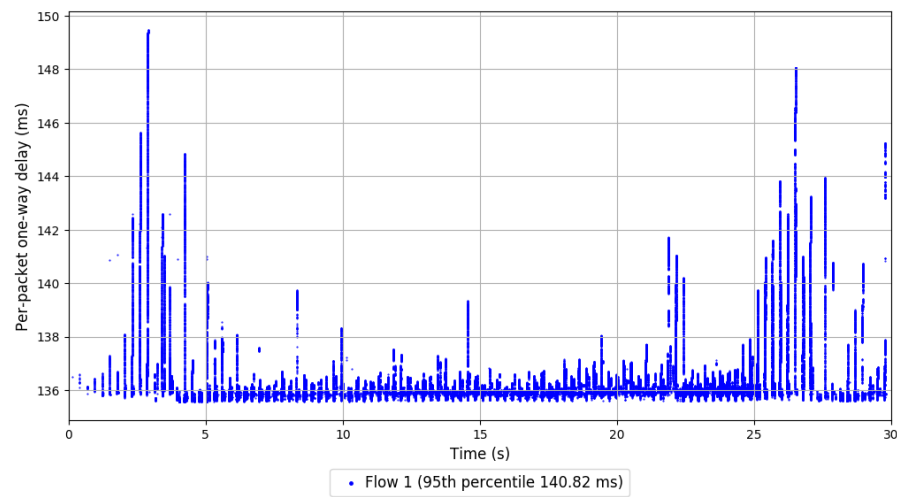
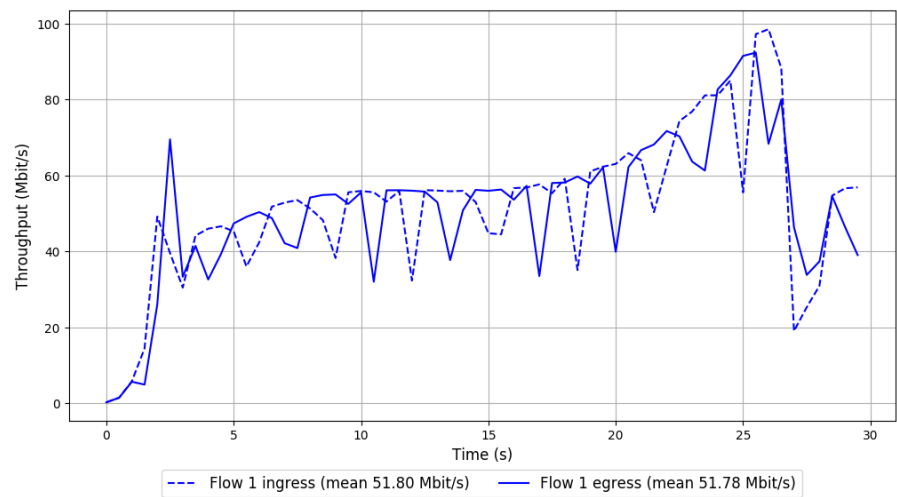
-- Flow 1:

Average throughput: 51.78 Mbit/s

95th percentile per-packet one-way delay: 140.825 ms

Loss rate: 0.94%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-06 10:00:52

End at: 2018-03-06 10:01:22

Below is generated by plot.py at 2018-03-06 14:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.85 Mbit/s

95th percentile per-packet one-way delay: 143.411 ms

Loss rate: 1.00%

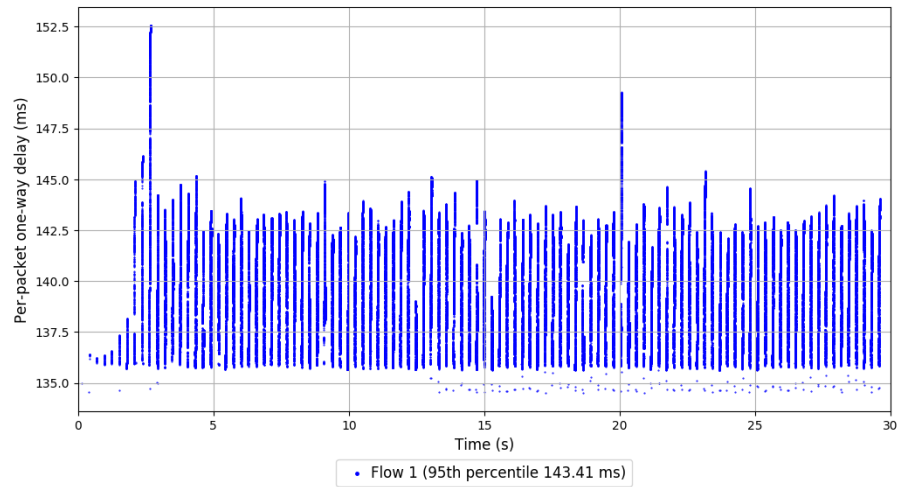
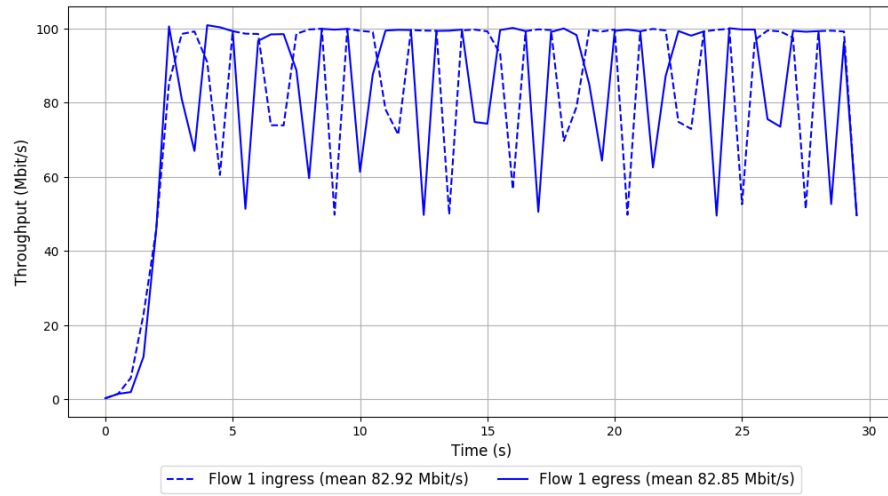
-- Flow 1:

Average throughput: 82.85 Mbit/s

95th percentile per-packet one-way delay: 143.411 ms

Loss rate: 1.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-06 10:16:49

End at: 2018-03-06 10:17:19

Below is generated by plot.py at 2018-03-06 14:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 143.926 ms

Loss rate: 0.56%

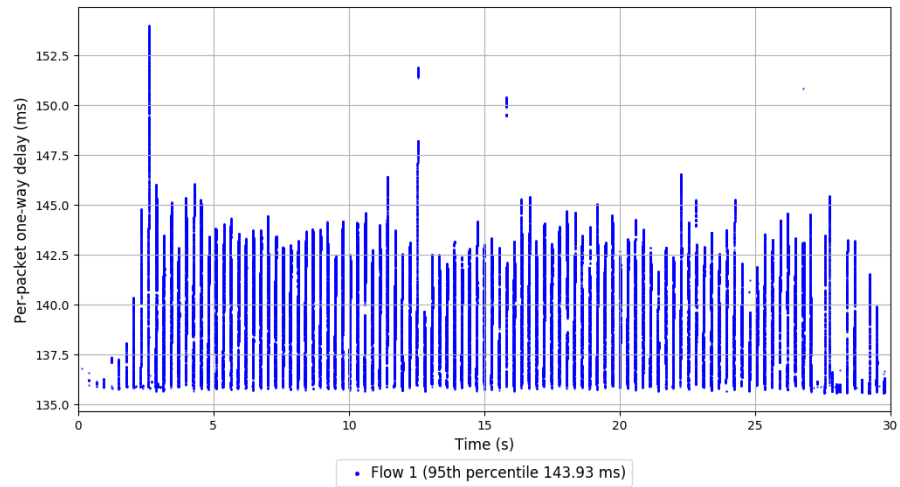
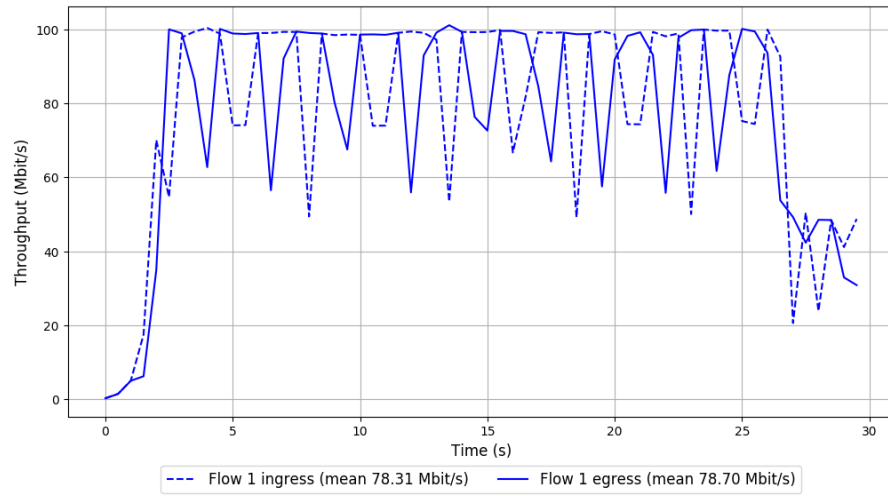
-- Flow 1:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 143.926 ms

Loss rate: 0.56%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-06 10:33:00

End at: 2018-03-06 10:33:30

Below is generated by plot.py at 2018-03-06 14:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 138.826 ms

Loss rate: 1.41%

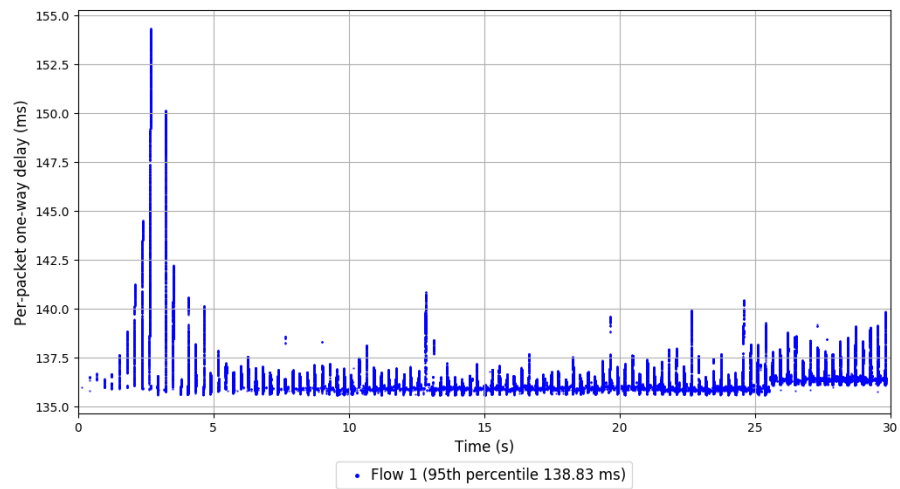
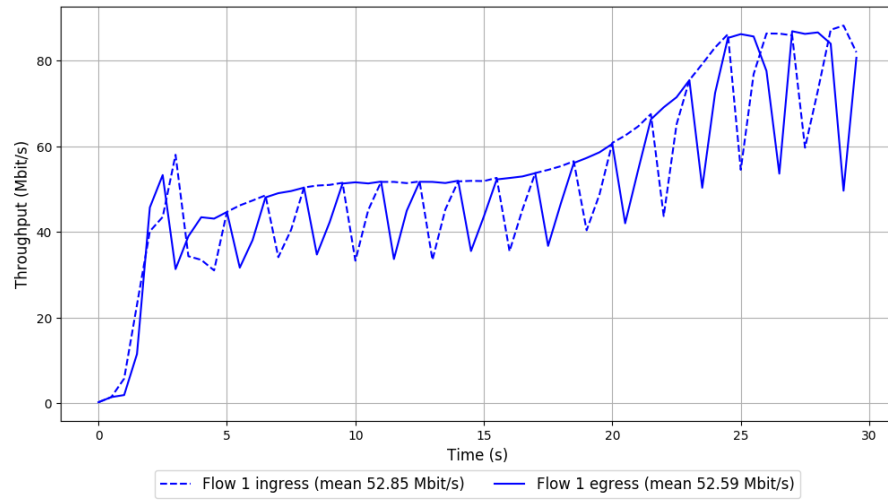
-- Flow 1:

Average throughput: 52.59 Mbit/s

95th percentile per-packet one-way delay: 138.826 ms

Loss rate: 1.41%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-06 10:49:04

End at: 2018-03-06 10:49:34

Below is generated by plot.py at 2018-03-06 14:46:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 141.770 ms

Loss rate: 1.52%

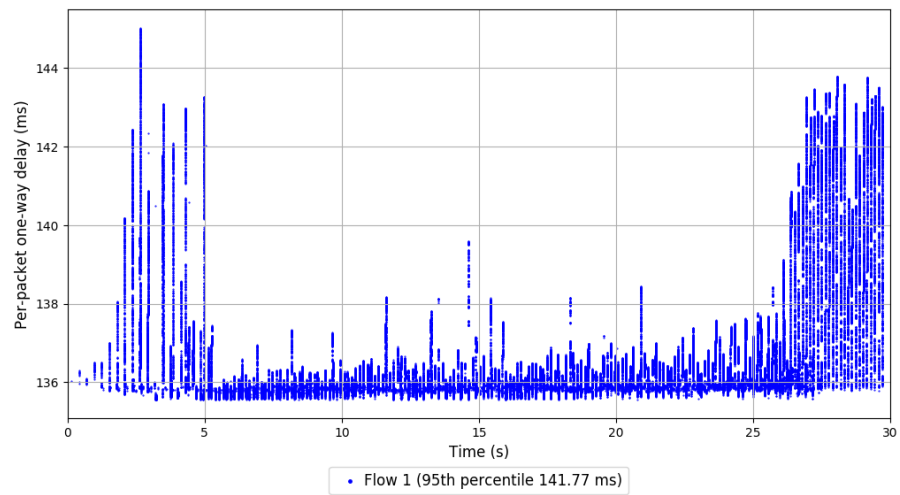
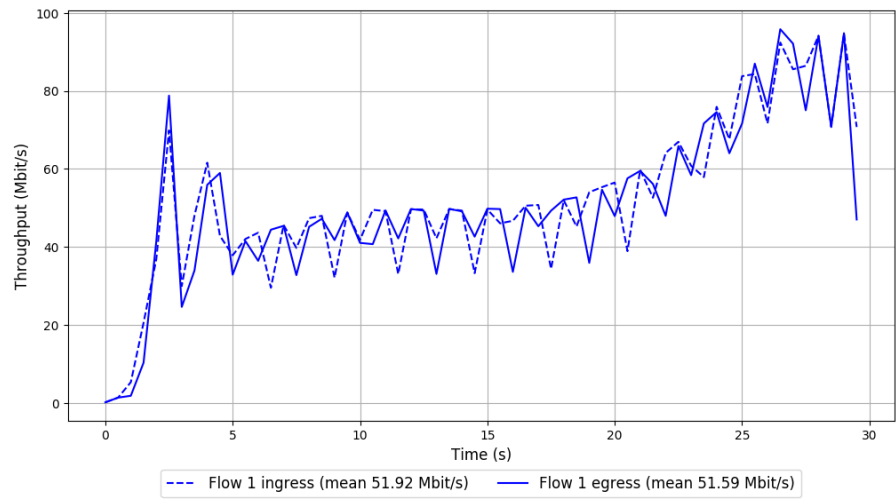
-- Flow 1:

Average throughput: 51.59 Mbit/s

95th percentile per-packet one-way delay: 141.770 ms

Loss rate: 1.52%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-06 11:05:04

End at: 2018-03-06 11:05:34

Below is generated by plot.py at 2018-03-06 14:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 141.943 ms

Loss rate: 1.42%

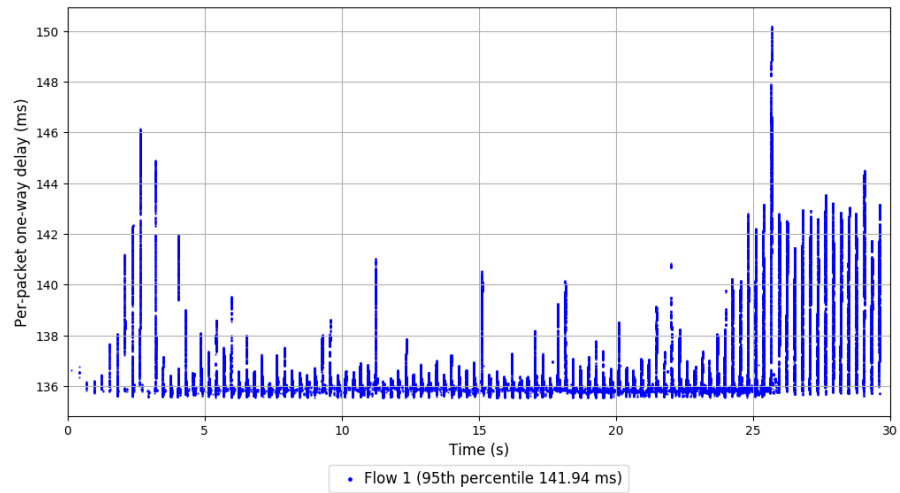
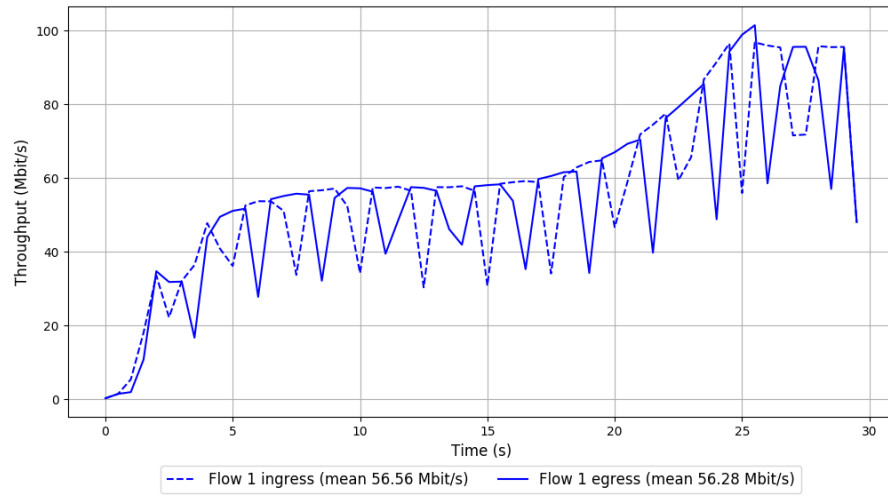
-- Flow 1:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 141.943 ms

Loss rate: 1.42%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-06 11:20:52

End at: 2018-03-06 11:21:22

Below is generated by plot.py at 2018-03-06 14:46:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 142.495 ms

Loss rate: 1.48%

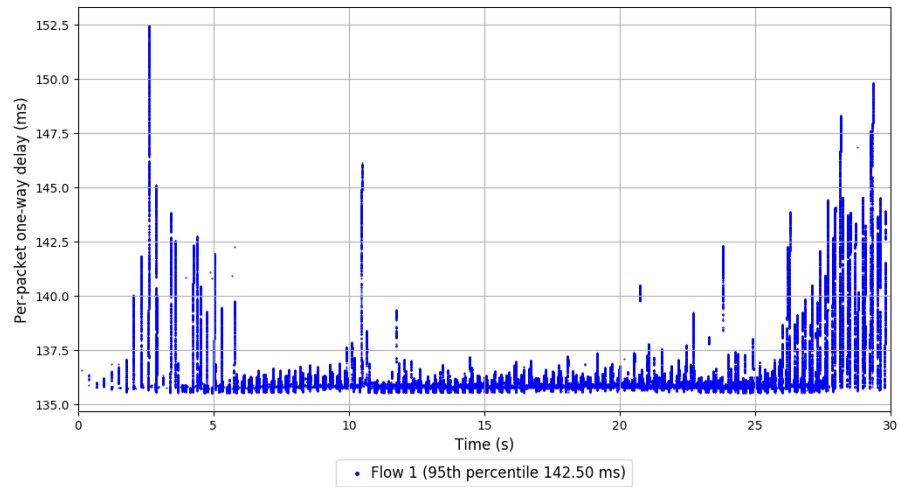
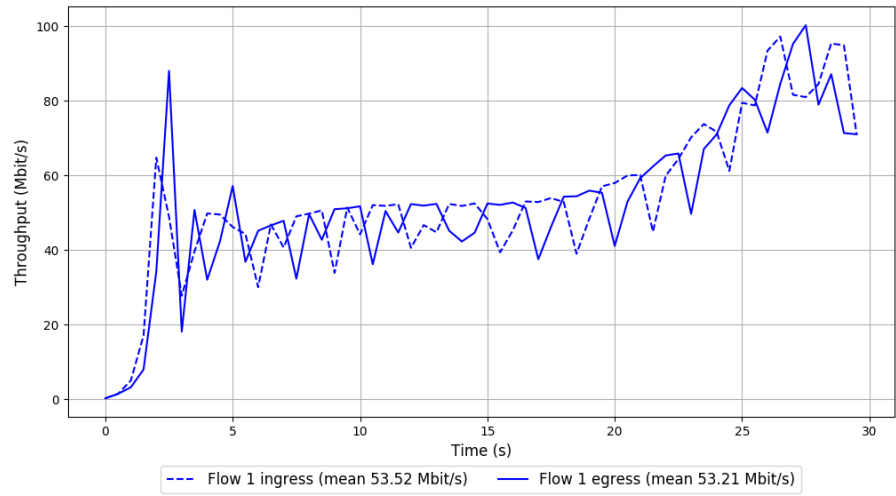
-- Flow 1:

Average throughput: 53.21 Mbit/s

95th percentile per-packet one-way delay: 142.495 ms

Loss rate: 1.48%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-06 11:37:05

End at: 2018-03-06 11:37:35

Below is generated by plot.py at 2018-03-06 14:47:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.28 Mbit/s

95th percentile per-packet one-way delay: 141.815 ms

Loss rate: 1.32%

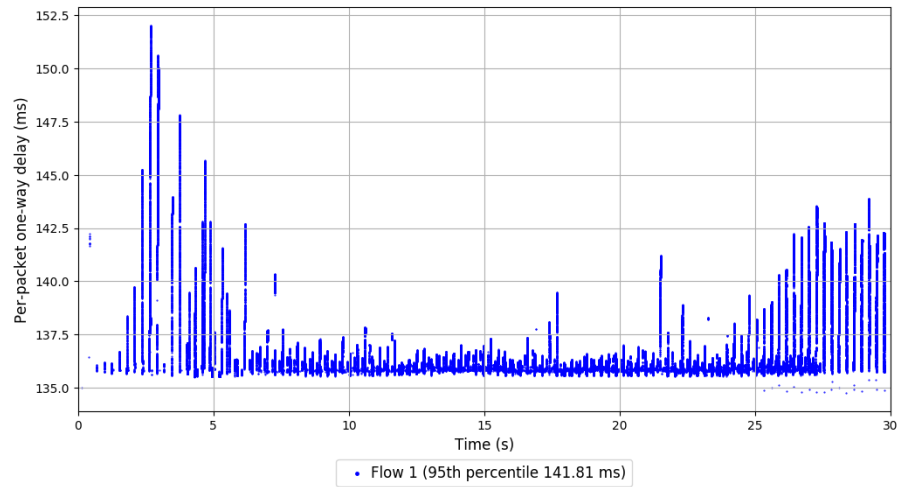
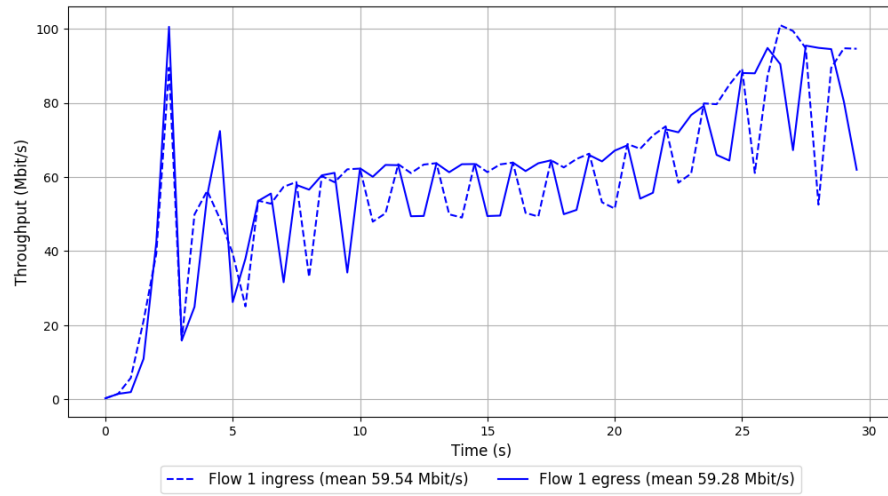
-- Flow 1:

Average throughput: 59.28 Mbit/s

95th percentile per-packet one-way delay: 141.815 ms

Loss rate: 1.32%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-06 11:53:02

End at: 2018-03-06 11:53:32

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.24 Mbit/s

95th percentile per-packet one-way delay: 137.986 ms

Loss rate: 1.10%

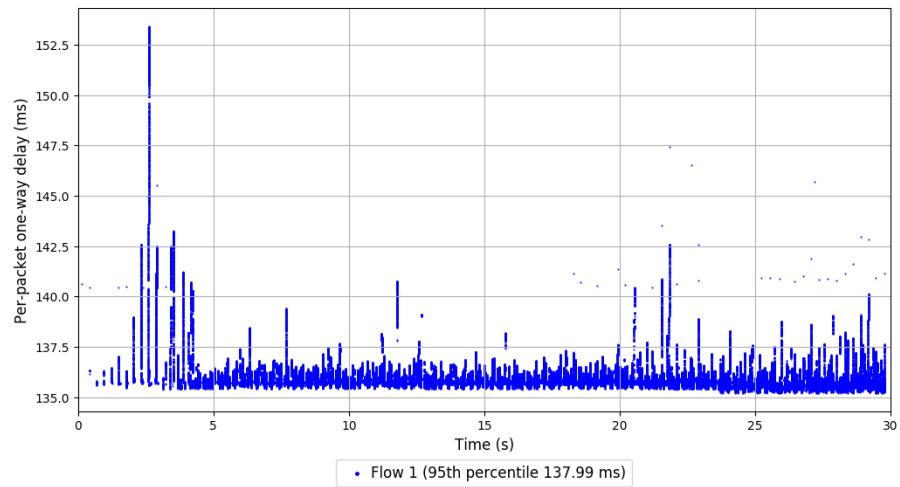
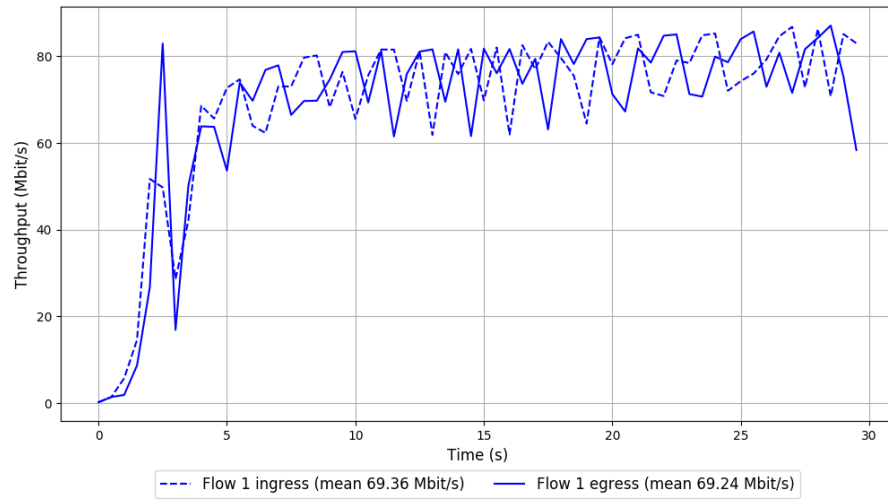
-- Flow 1:

Average throughput: 69.24 Mbit/s

95th percentile per-packet one-way delay: 137.986 ms

Loss rate: 1.10%

Run 10: Report of TCP Cubic — Data Link

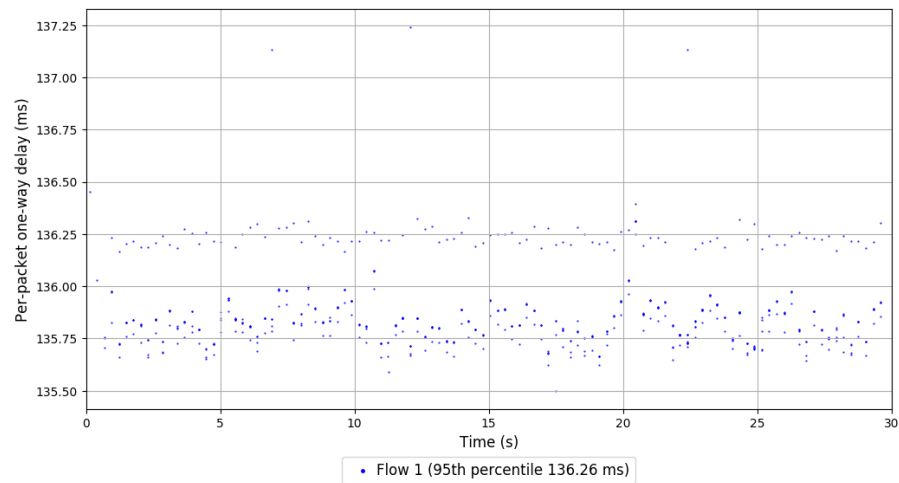
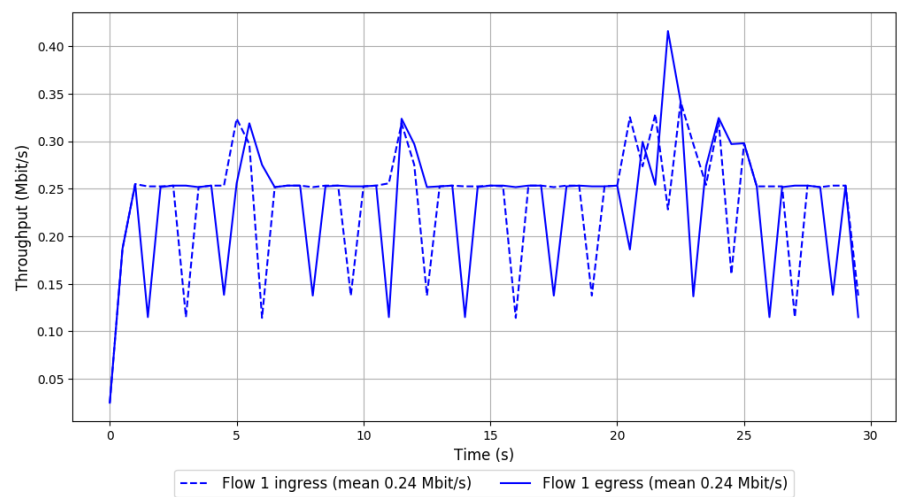


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-06 09:21:35
End at: 2018-03-06 09:22:05

# Below is generated by plot.py at 2018-03-06 14:47:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.258 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.258 ms
Loss rate: 0.96%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-03-06 09:37:39

End at: 2018-03-06 09:38:09

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 136.535 ms

Loss rate: 1.51%

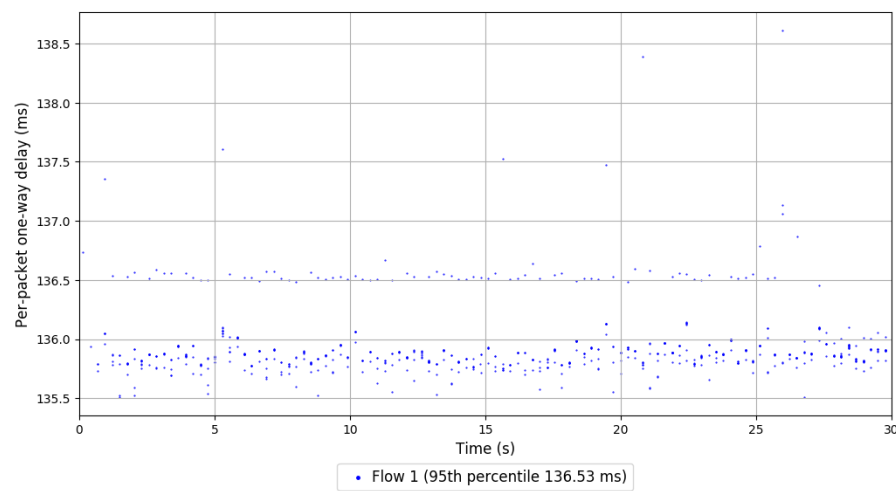
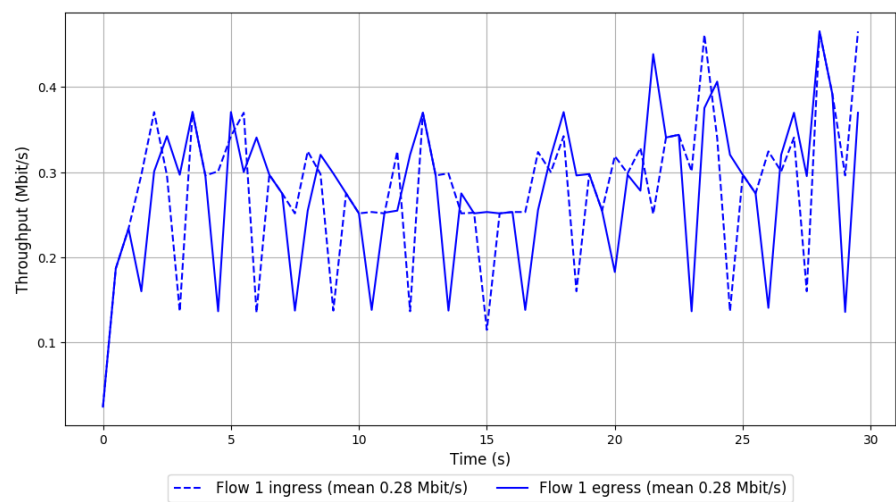
-- Flow 1:

Average throughput: 0.28 Mbit/s

95th percentile per-packet one-way delay: 136.535 ms

Loss rate: 1.51%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-06 09:53:50

End at: 2018-03-06 09:54:20

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 136.963 ms

Loss rate: 1.85%

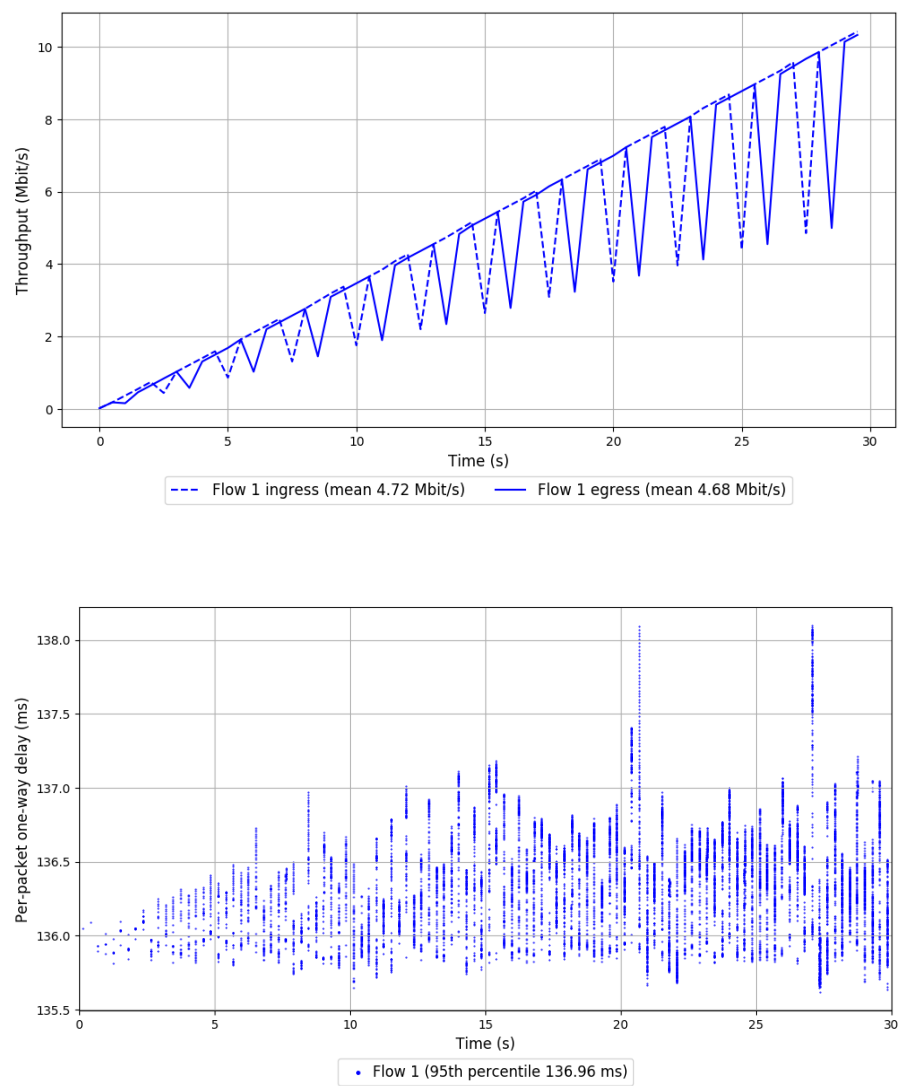
-- Flow 1:

Average throughput: 4.68 Mbit/s

95th percentile per-packet one-way delay: 136.963 ms

Loss rate: 1.85%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-06 10:09:59

End at: 2018-03-06 10:10:29

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.17 Mbit/s

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

Loss rate: 2.23%

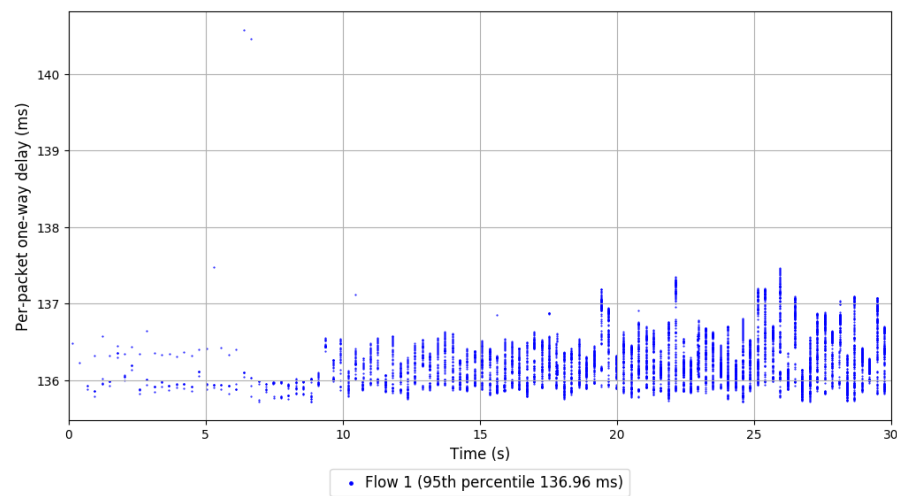
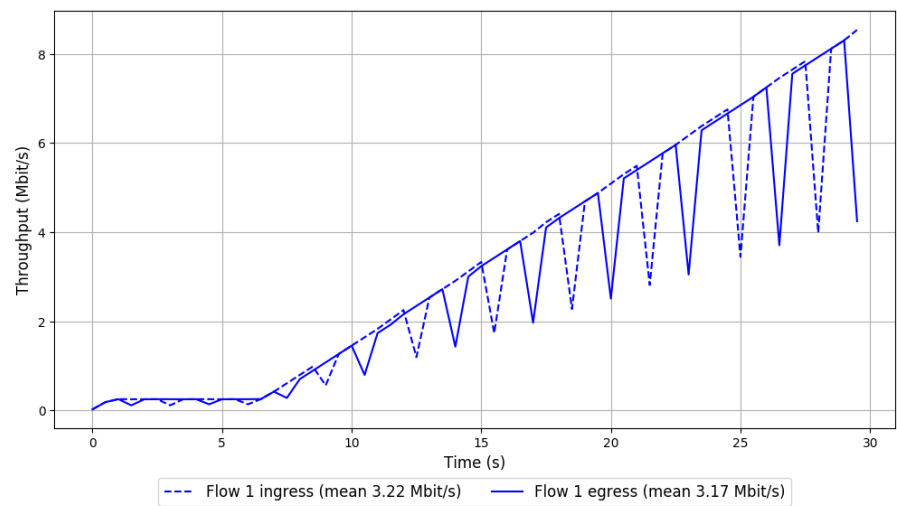
-- Flow 1:

Average throughput: 3.17 Mbit/s

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

Loss rate: 2.23%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-06 10:25:49

End at: 2018-03-06 10:26:19

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 136.985 ms

Loss rate: 1.86%

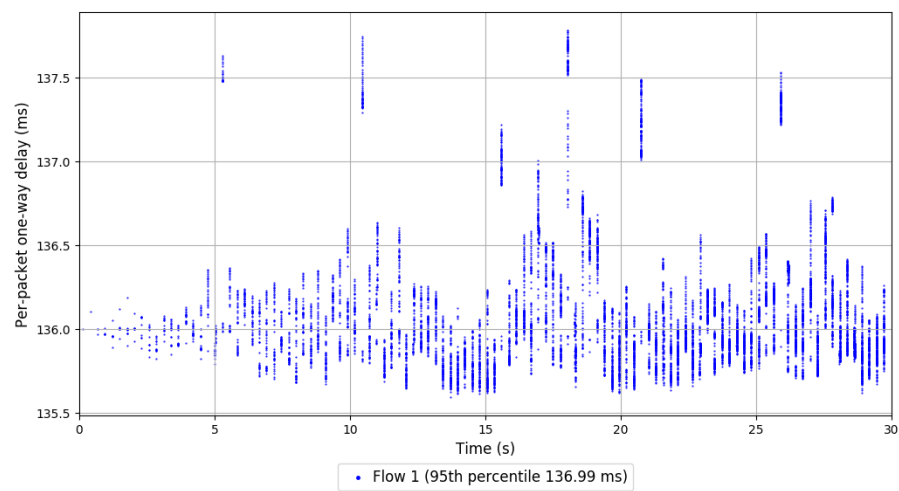
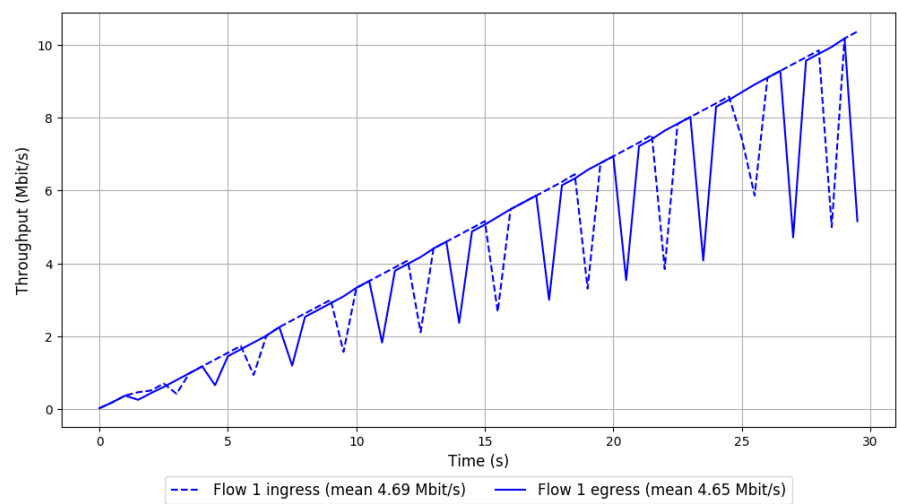
-- Flow 1:

Average throughput: 4.65 Mbit/s

95th percentile per-packet one-way delay: 136.985 ms

Loss rate: 1.86%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-06 10:41:56

End at: 2018-03-06 10:42:26

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 2.67%

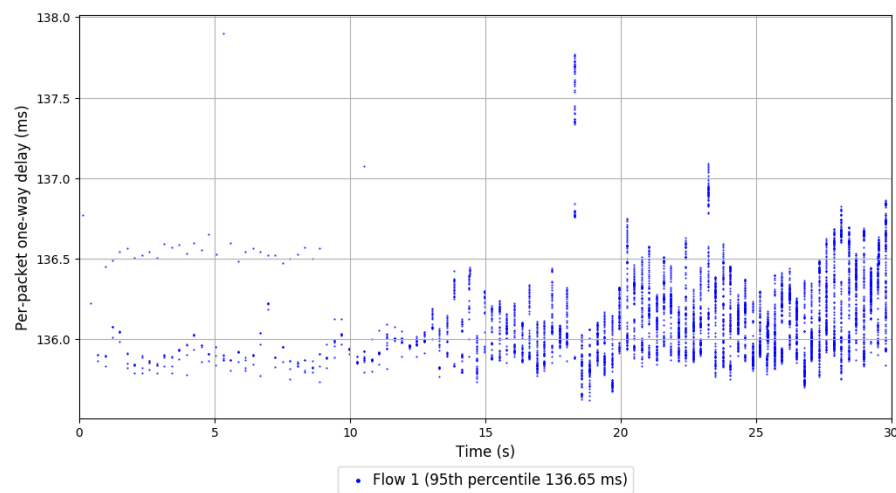
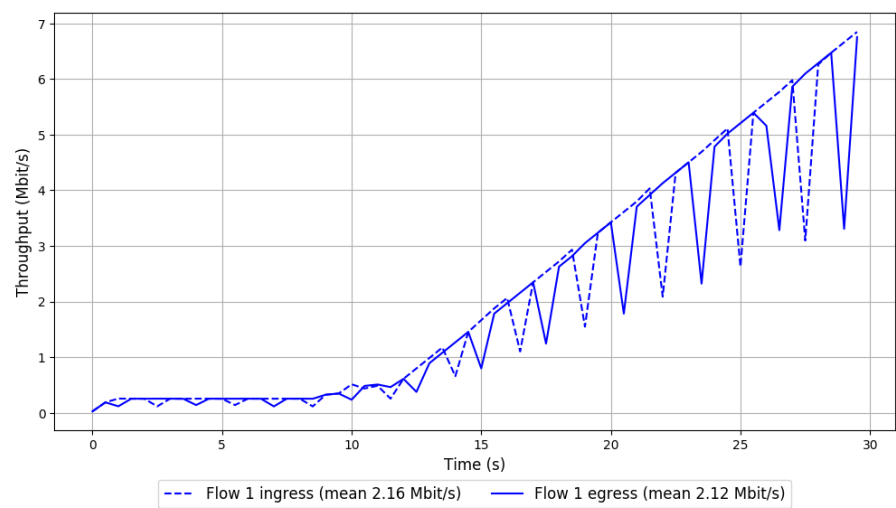
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.645 ms

Loss rate: 2.67%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-06 10:58:05

End at: 2018-03-06 10:58:35

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.475 ms

Loss rate: 4.14%

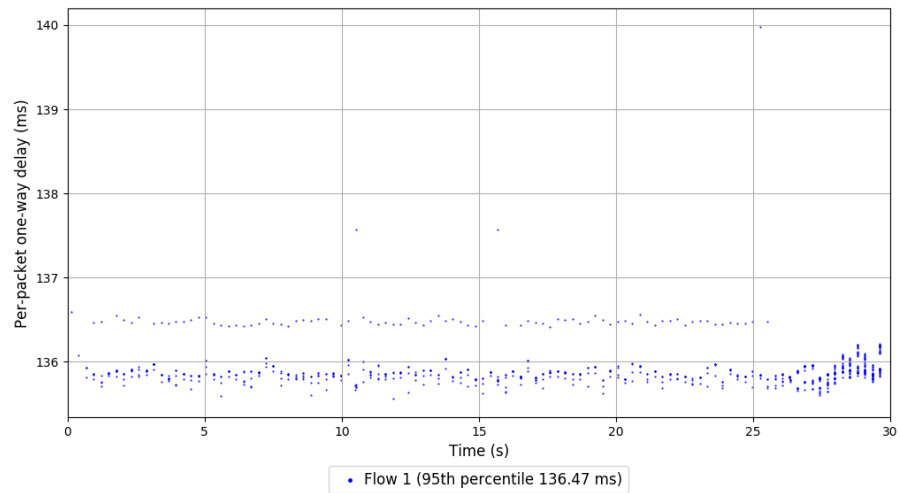
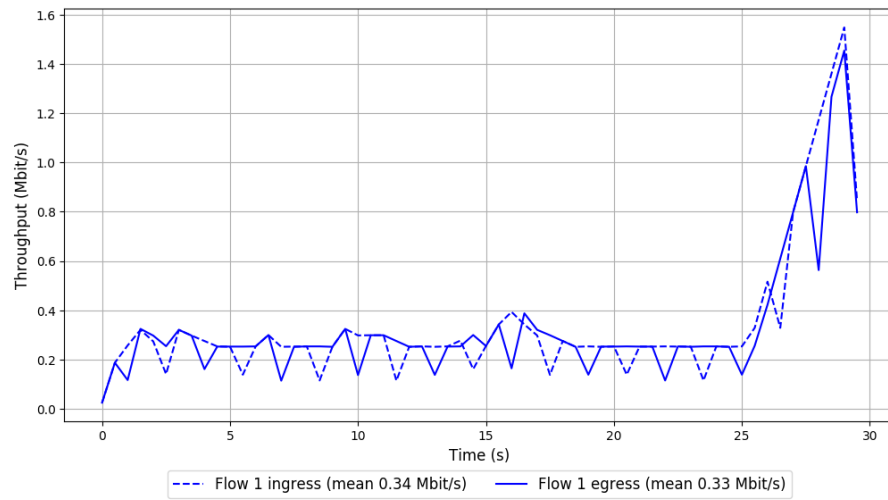
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 136.475 ms

Loss rate: 4.14%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-06 11:13:59

End at: 2018-03-06 11:14:29

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.039 ms

Loss rate: 1.84%

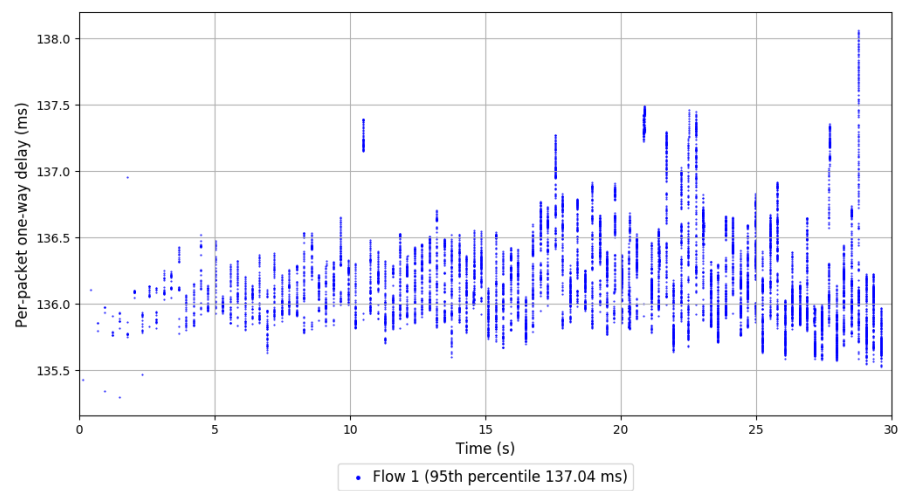
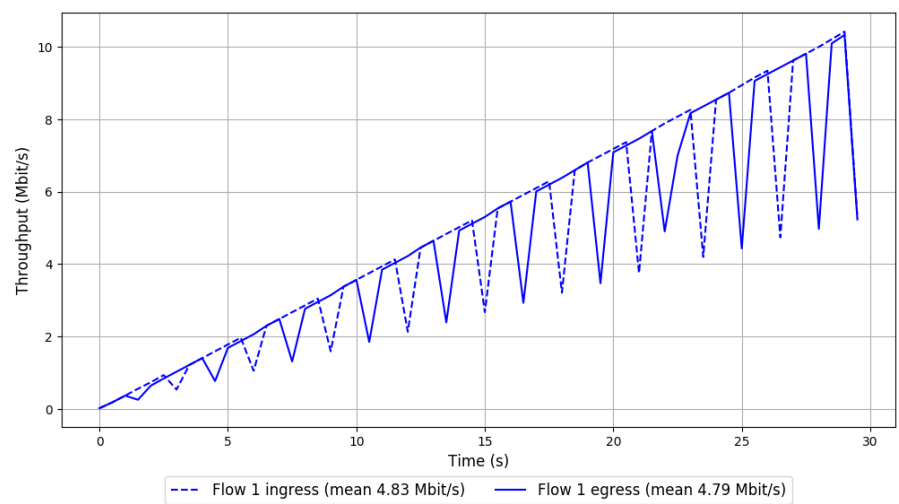
-- Flow 1:

Average throughput: 4.79 Mbit/s

95th percentile per-packet one-way delay: 137.039 ms

Loss rate: 1.84%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-06 11:30:03

End at: 2018-03-06 11:30:33

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 136.946 ms

Loss rate: 1.83%

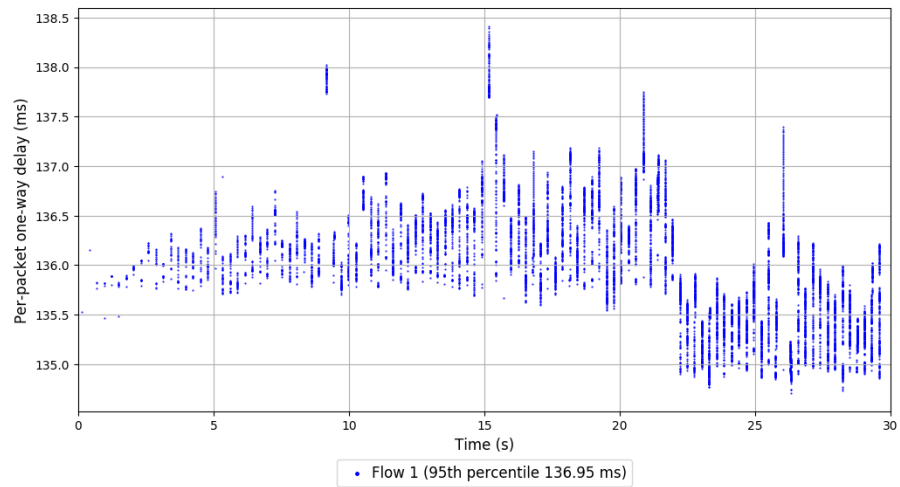
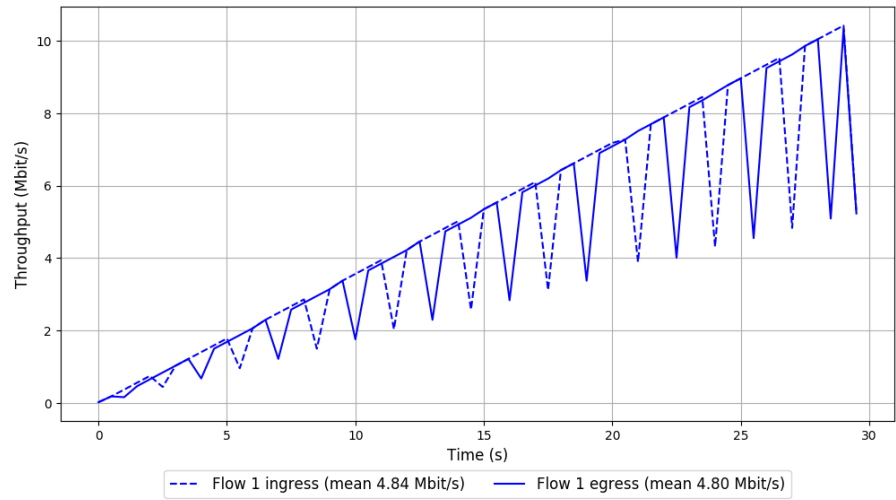
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 136.946 ms

Loss rate: 1.83%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-06 11:46:05

End at: 2018-03-06 11:46:35

Below is generated by plot.py at 2018-03-06 14:47:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 136.424 ms

Loss rate: 2.52%

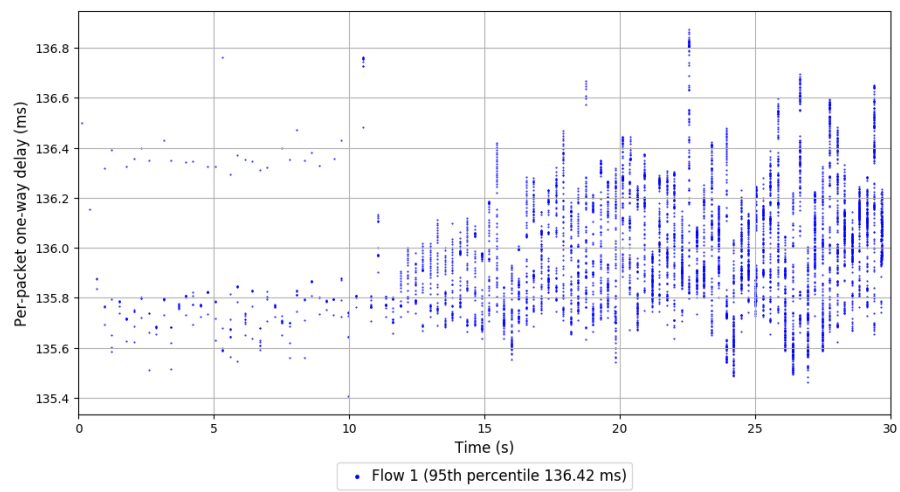
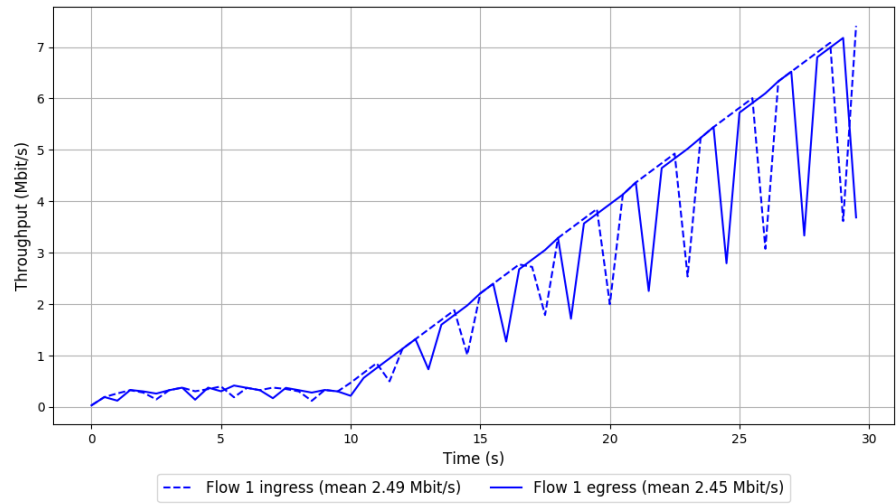
-- Flow 1:

Average throughput: 2.45 Mbit/s

95th percentile per-packet one-way delay: 136.424 ms

Loss rate: 2.52%

Run 10: Report of LEDBAT — Data Link

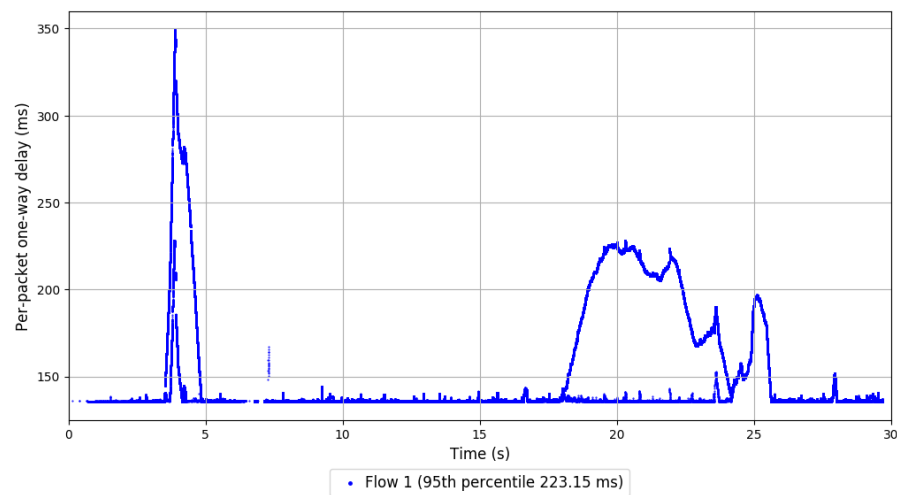
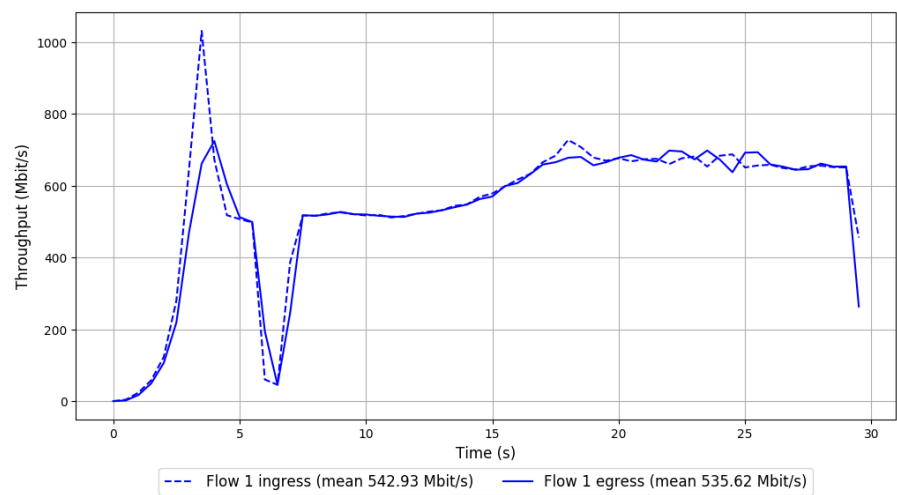


```
Run 1: Statistics of PCC

Start at: 2018-03-06 09:22:17
End at: 2018-03-06 09:22:47

# Below is generated by plot.py at 2018-03-06 14:55:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 535.62 Mbit/s
95th percentile per-packet one-way delay: 223.152 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 535.62 Mbit/s
95th percentile per-packet one-way delay: 223.152 ms
Loss rate: 2.25%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-06 09:38:21

End at: 2018-03-06 09:38:51

Below is generated by plot.py at 2018-03-06 14:55:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.92 Mbit/s

95th percentile per-packet one-way delay: 150.038 ms

Loss rate: 1.93%

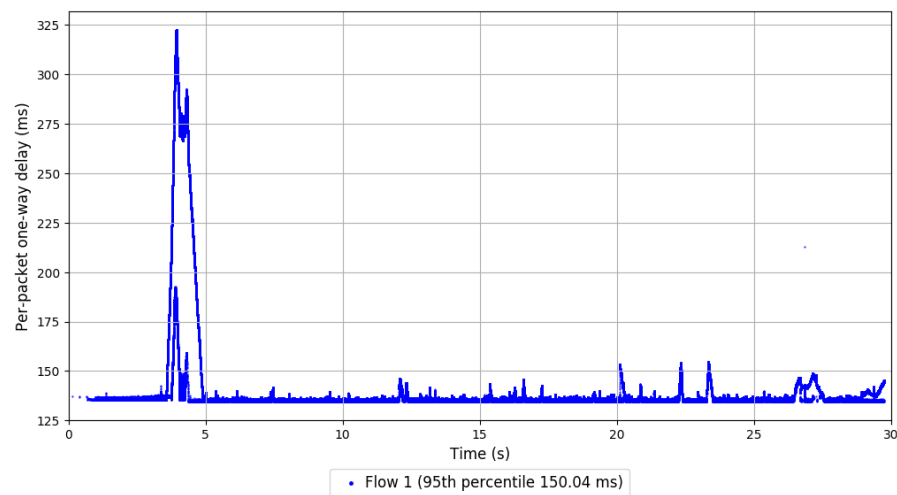
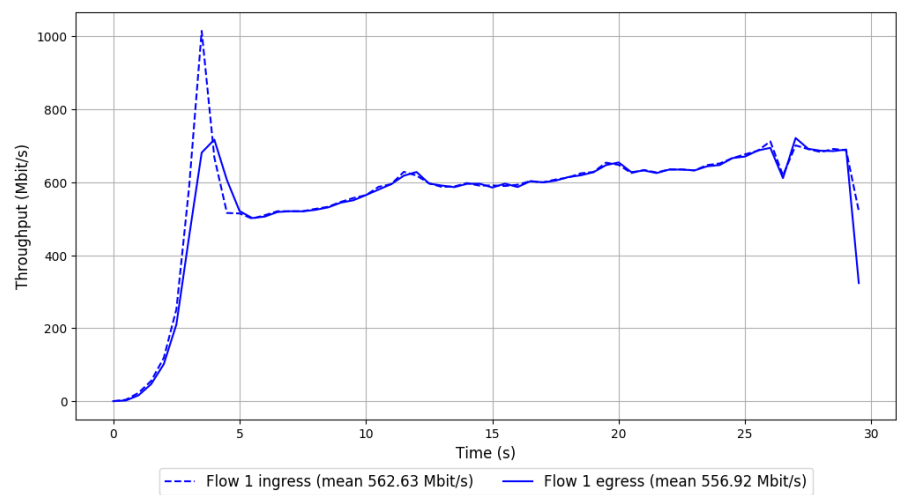
-- Flow 1:

Average throughput: 556.92 Mbit/s

95th percentile per-packet one-way delay: 150.038 ms

Loss rate: 1.93%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-06 09:54:33

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

Below is generated by plot.py at 2018-03-06 14:55:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.24 Mbit/s

95th percentile per-packet one-way delay: 192.952 ms

Loss rate: 1.95%

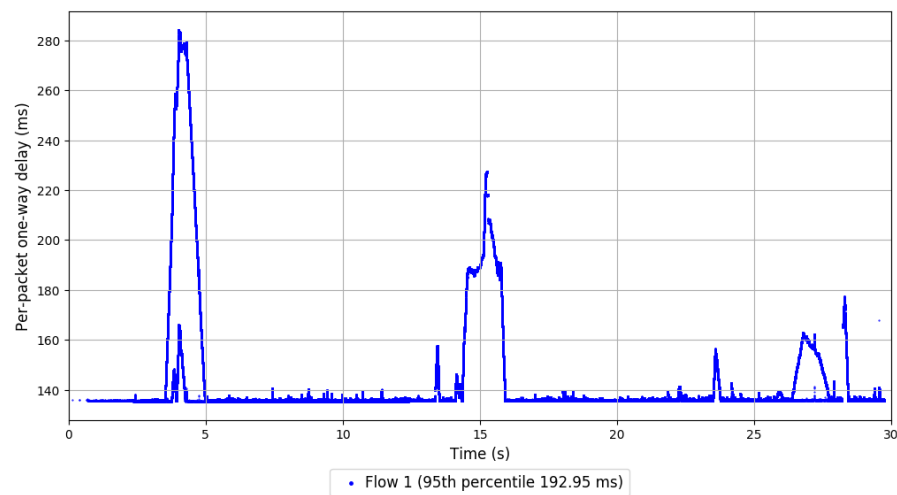
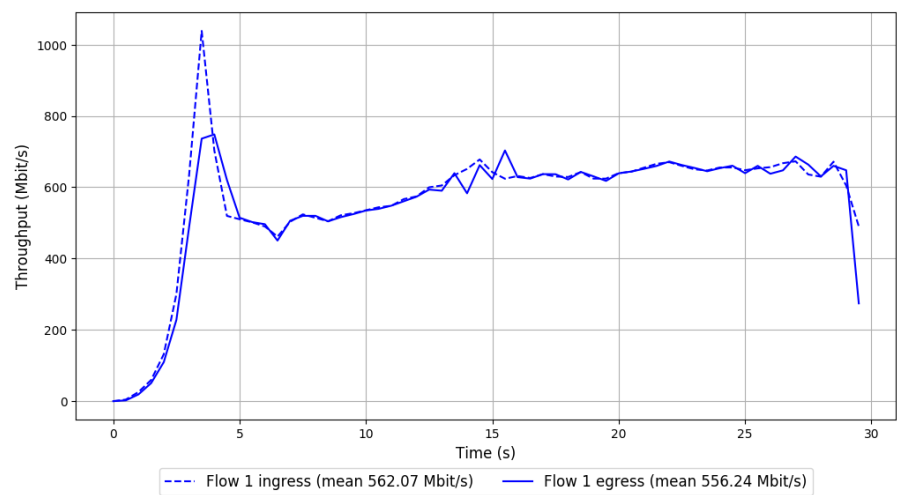
-- Flow 1:

Average throughput: 556.24 Mbit/s

95th percentile per-packet one-way delay: 192.952 ms

Loss rate: 1.95%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-06 10:10:42

End at: 2018-03-06 10:11:12

Below is generated by plot.py at 2018-03-06 14:56:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.13 Mbit/s

95th percentile per-packet one-way delay: 159.651 ms

Loss rate: 1.72%

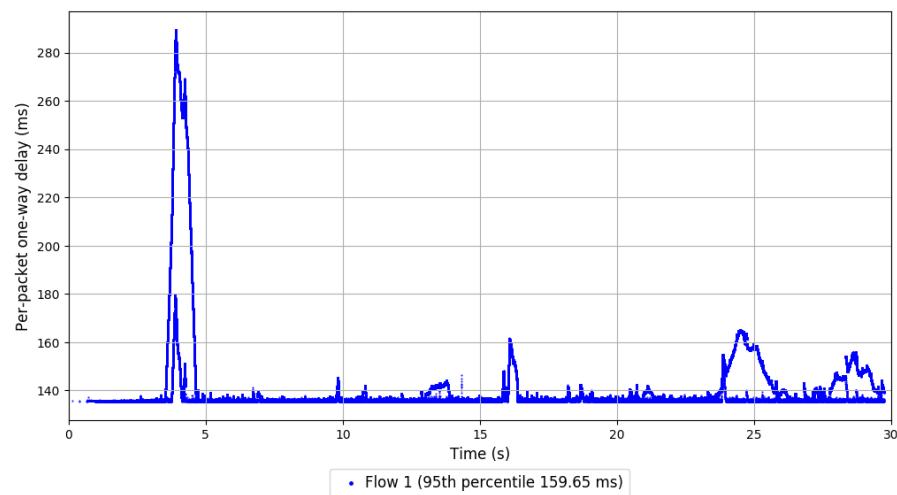
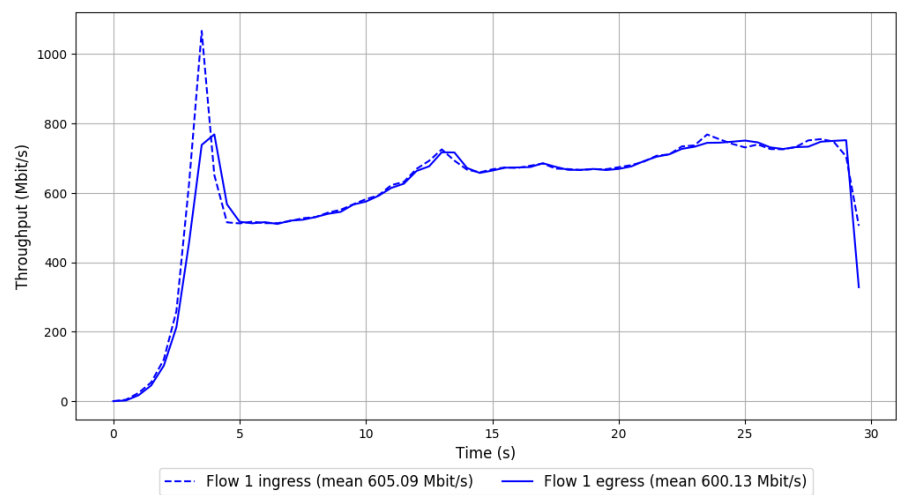
-- Flow 1:

Average throughput: 600.13 Mbit/s

95th percentile per-packet one-way delay: 159.651 ms

Loss rate: 1.72%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-06 10:26:32

End at: 2018-03-06 10:27:02

Below is generated by plot.py at 2018-03-06 14:56:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 528.90 Mbit/s

95th percentile per-packet one-way delay: 216.213 ms

Loss rate: 3.03%

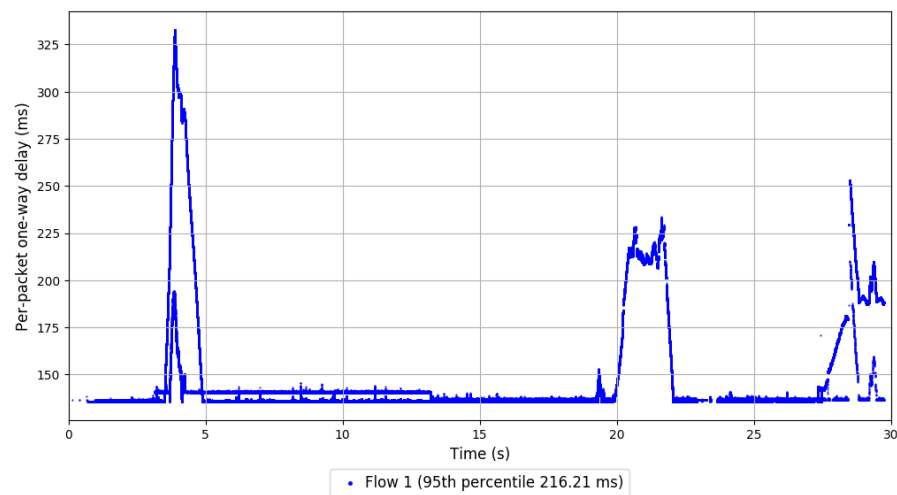
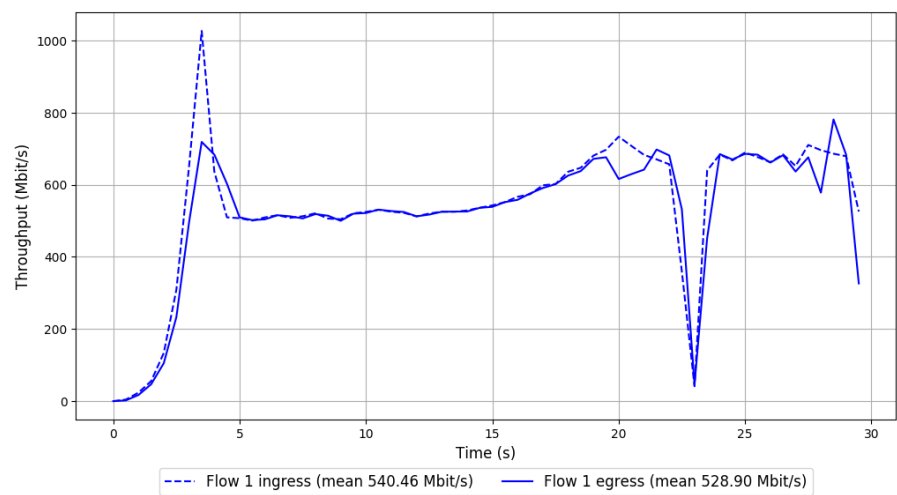
-- Flow 1:

Average throughput: 528.90 Mbit/s

95th percentile per-packet one-way delay: 216.213 ms

Loss rate: 3.03%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-06 10:42:39

End at: 2018-03-06 10:43:09

Below is generated by plot.py at 2018-03-06 14:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.90 Mbit/s

95th percentile per-packet one-way delay: 238.579 ms

Loss rate: 2.25%

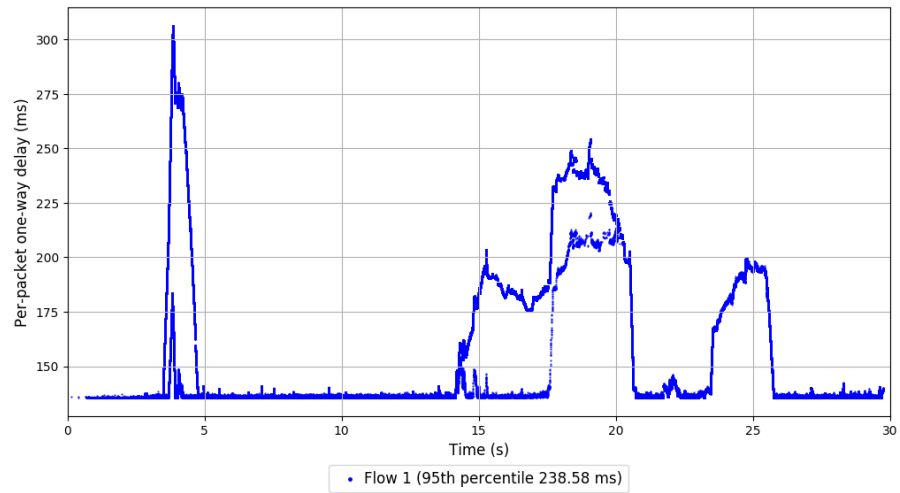
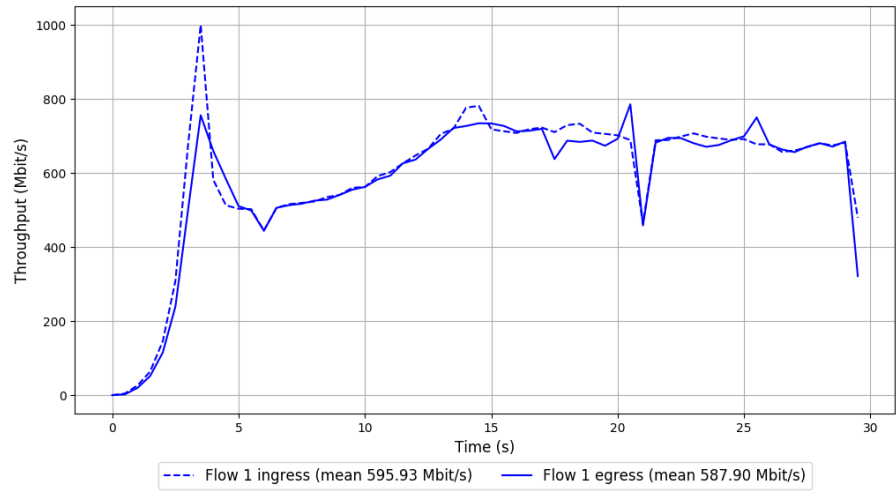
-- Flow 1:

Average throughput: 587.90 Mbit/s

95th percentile per-packet one-way delay: 238.579 ms

Loss rate: 2.25%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-06 10:58:47

End at: 2018-03-06 10:59:17

Below is generated by plot.py at 2018-03-06 14:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.98 Mbit/s

95th percentile per-packet one-way delay: 258.940 ms

Loss rate: 2.96%

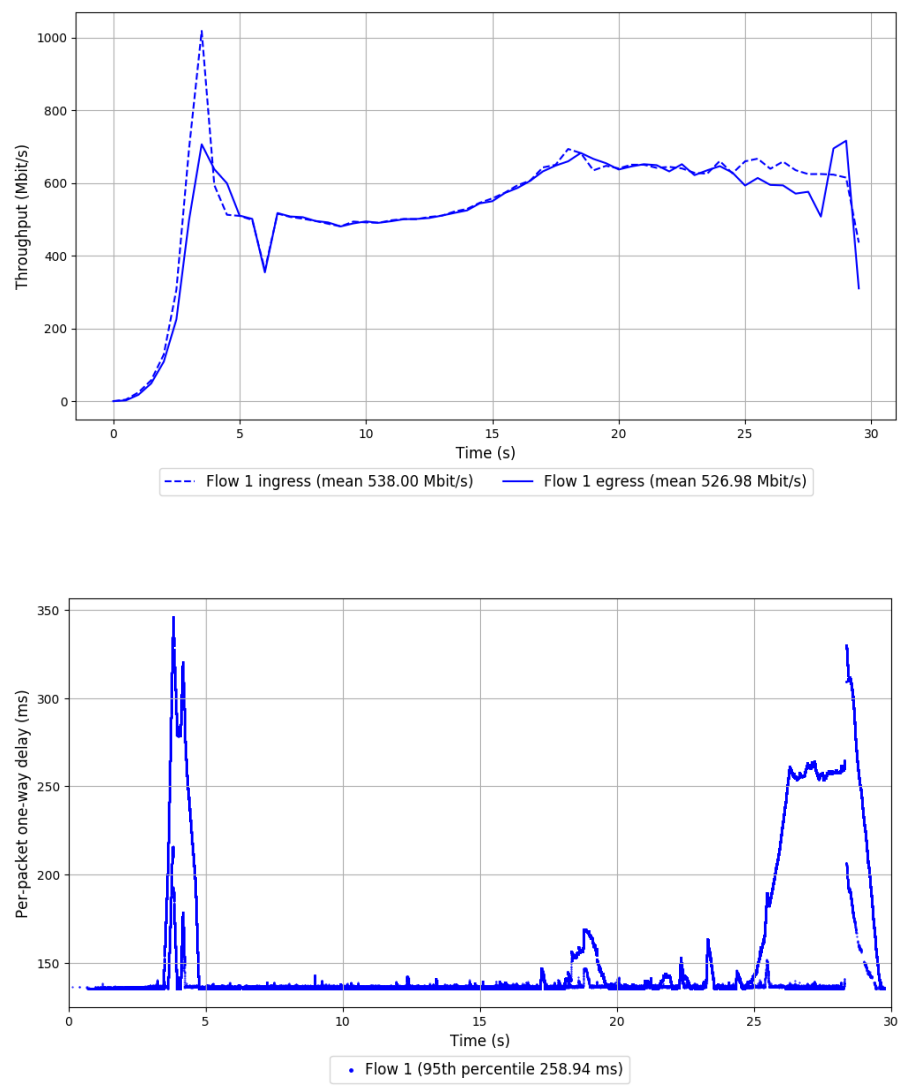
-- Flow 1:

Average throughput: 526.98 Mbit/s

95th percentile per-packet one-way delay: 258.940 ms

Loss rate: 2.96%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-06 11:14:42

End at: 2018-03-06 11:15:12

Below is generated by plot.py at 2018-03-06 14:56:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.59 Mbit/s

95th percentile per-packet one-way delay: 256.515 ms

Loss rate: 3.41%

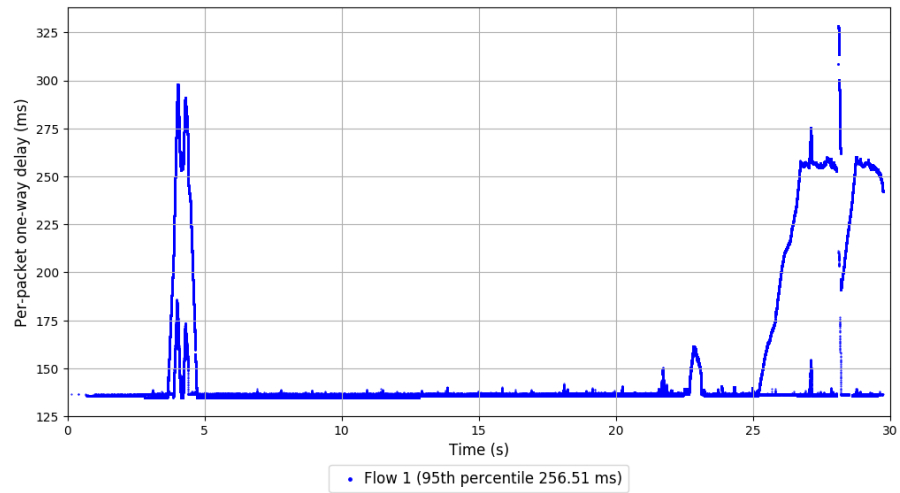
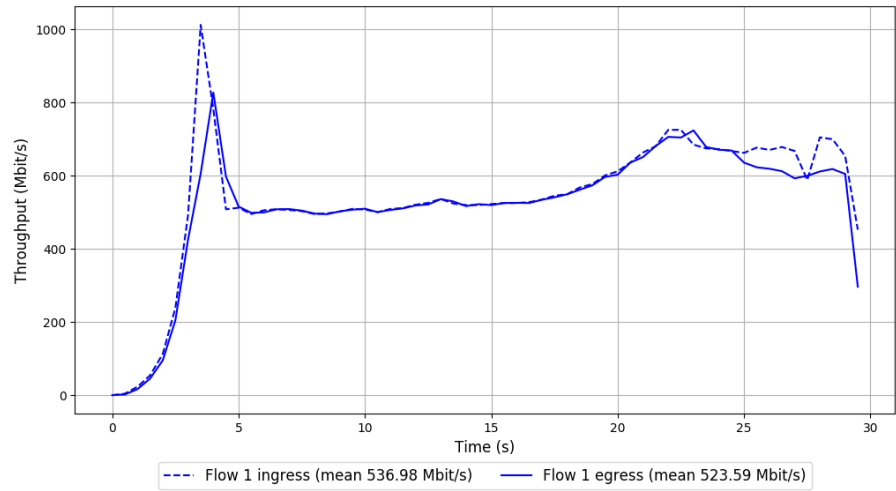
-- Flow 1:

Average throughput: 523.59 Mbit/s

95th percentile per-packet one-way delay: 256.515 ms

Loss rate: 3.41%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-06 11:30:46

End at: 2018-03-06 11:31:16

Below is generated by plot.py at 2018-03-06 15:04:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.45 Mbit/s

95th percentile per-packet one-way delay: 212.744 ms

Loss rate: 2.46%

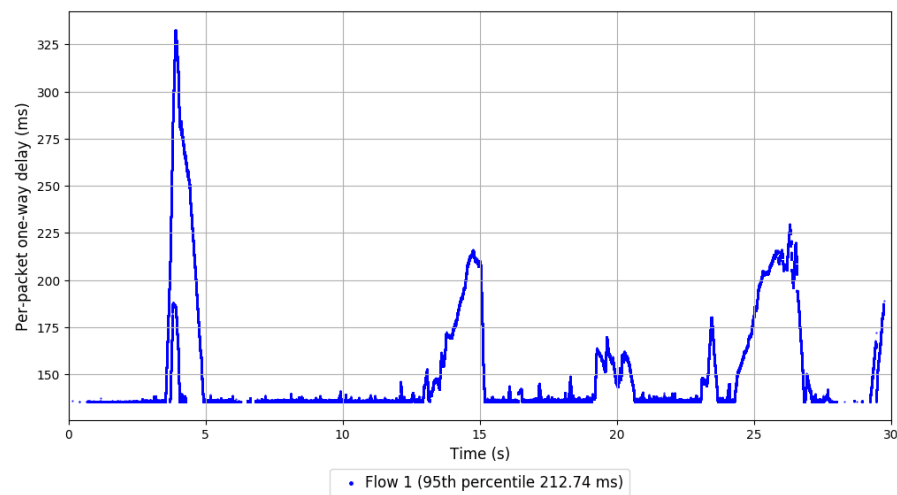
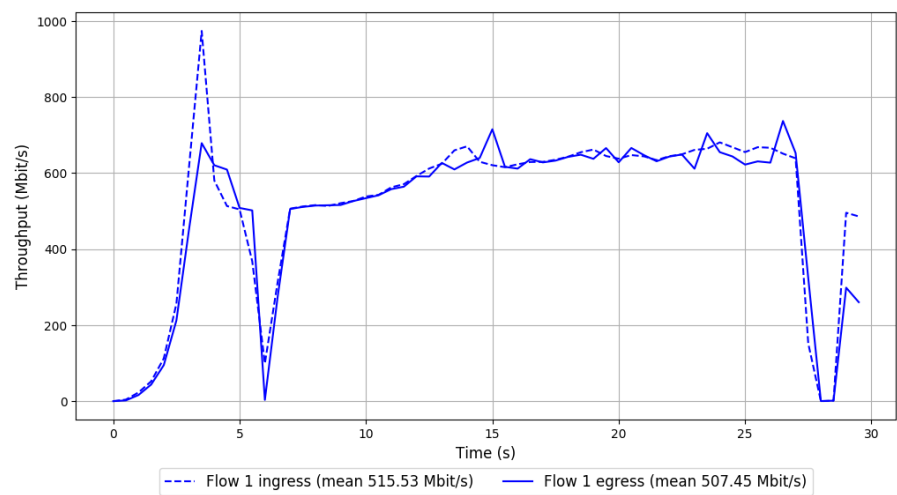
-- Flow 1:

Average throughput: 507.45 Mbit/s

95th percentile per-packet one-way delay: 212.744 ms

Loss rate: 2.46%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-06 11:46:48

End at: 2018-03-06 11:47:18

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.55 Mbit/s

95th percentile per-packet one-way delay: 209.727 ms

Loss rate: 2.58%

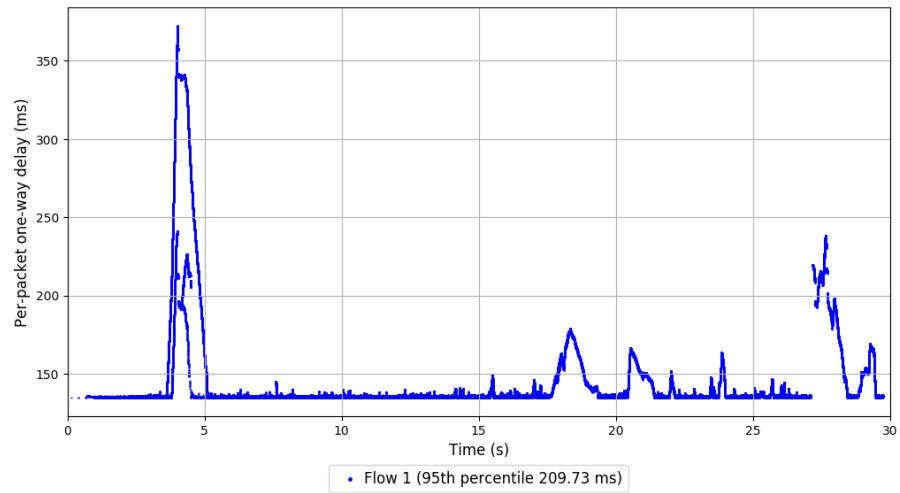
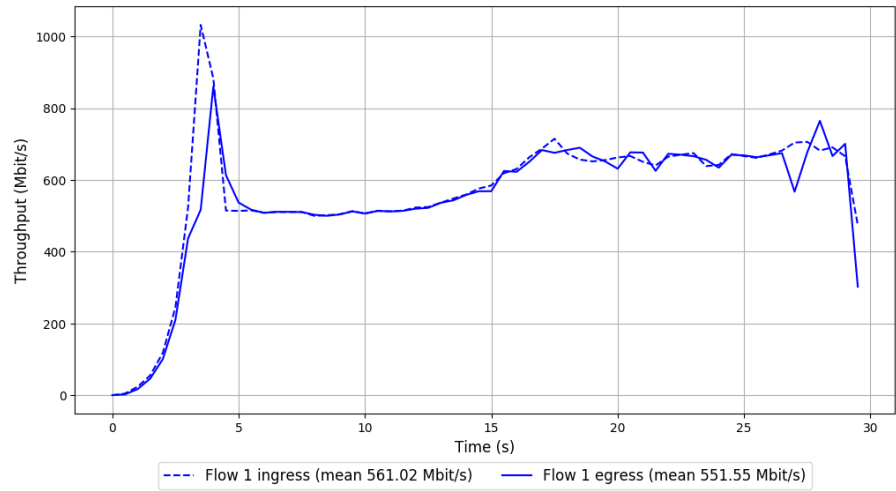
-- Flow 1:

Average throughput: 551.55 Mbit/s

95th percentile per-packet one-way delay: 209.727 ms

Loss rate: 2.58%

Run 10: Report of PCC — Data Link

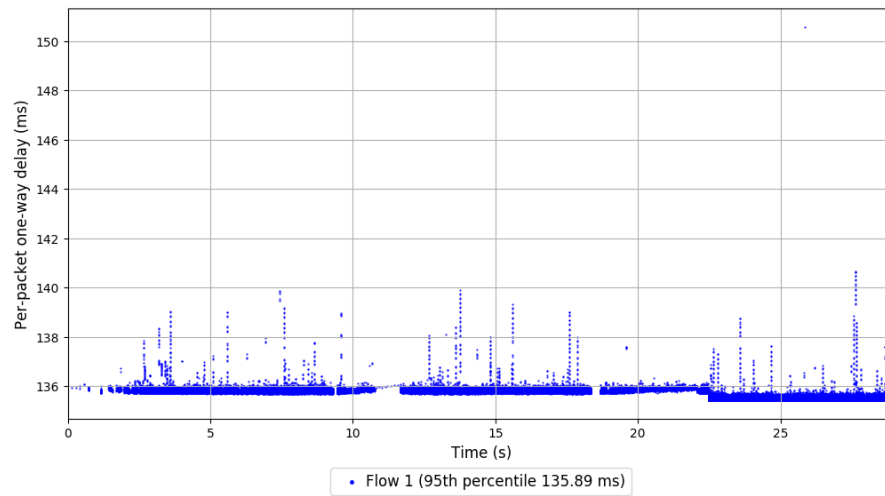
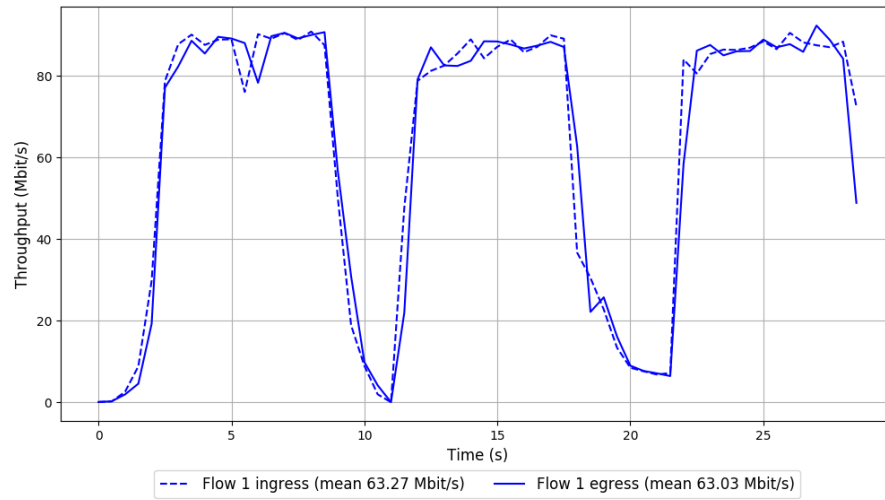


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-06 09:23:22
End at: 2018-03-06 09:23:52

# Below is generated by plot.py at 2018-03-06 15:04:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.03 Mbit/s
95th percentile per-packet one-way delay: 135.887 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 63.03 Mbit/s
95th percentile per-packet one-way delay: 135.887 ms
Loss rate: 1.32%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-06 09:39:26

End at: 2018-03-06 09:39:56

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 140.773 ms

Loss rate: 1.25%

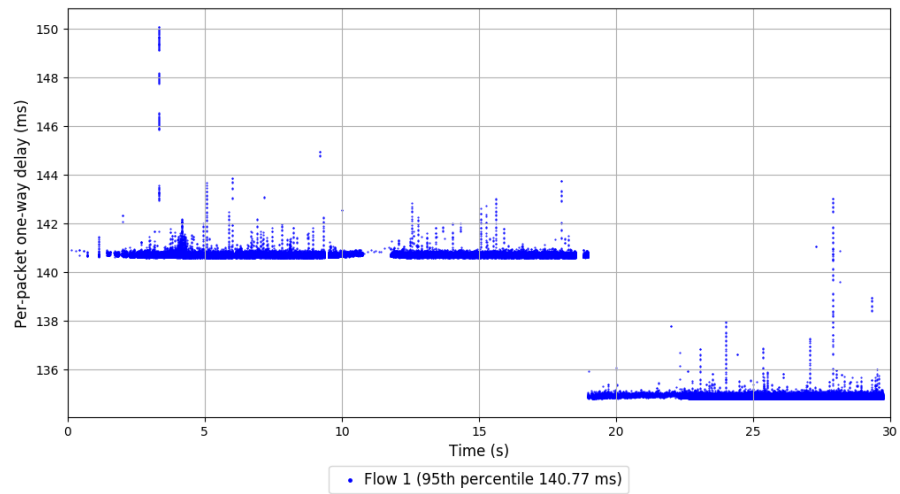
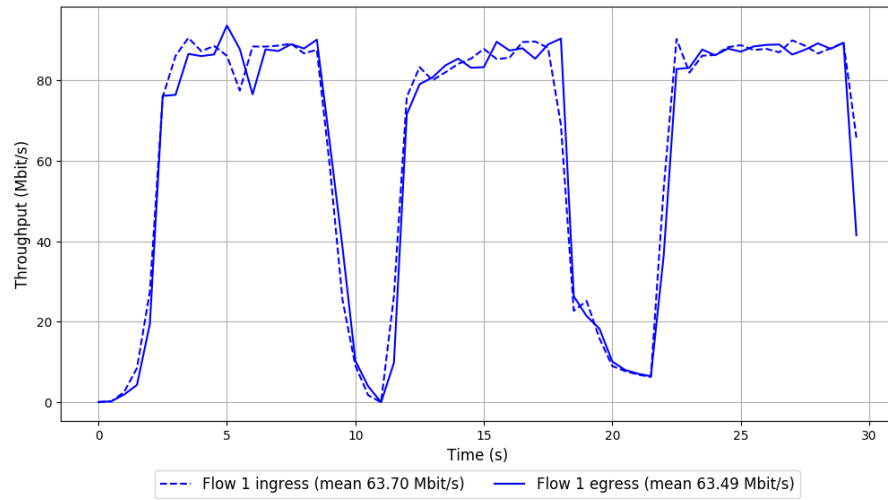
-- Flow 1:

Average throughput: 63.49 Mbit/s

95th percentile per-packet one-way delay: 140.773 ms

Loss rate: 1.25%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-06 09:55:38

End at: 2018-03-06 09:56:08

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.60 Mbit/s

95th percentile per-packet one-way delay: 140.499 ms

Loss rate: 1.28%

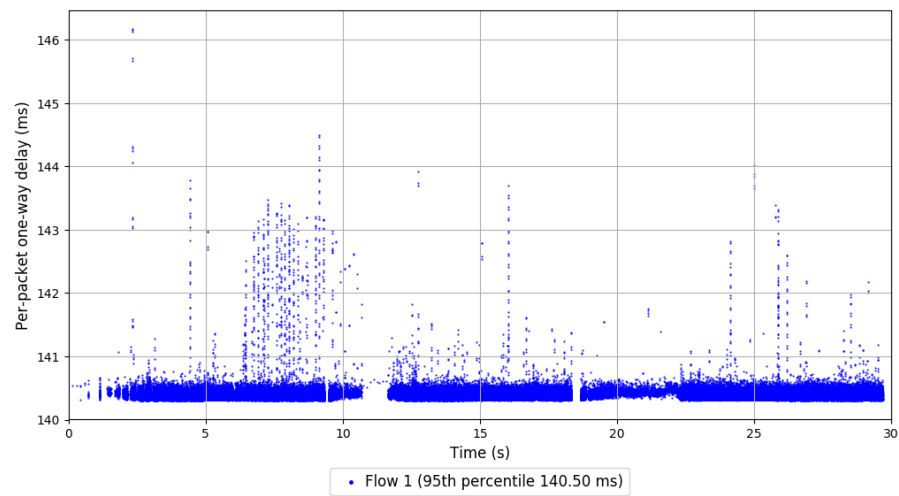
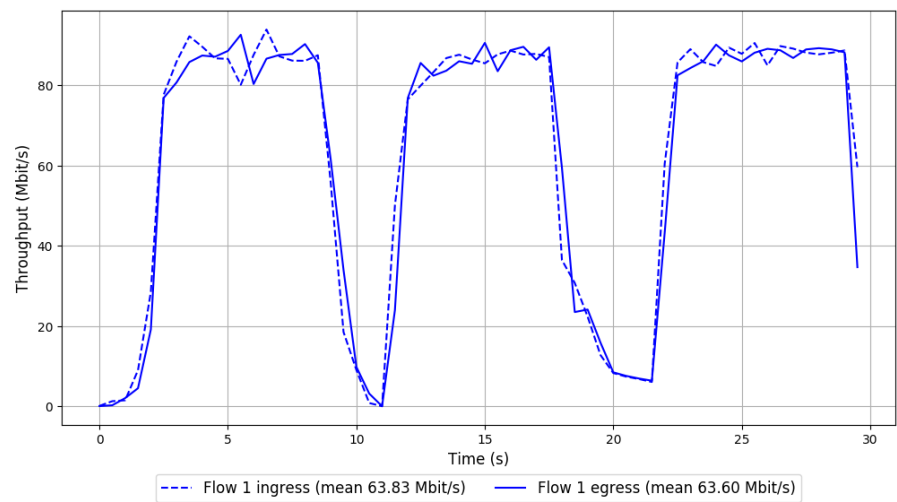
-- Flow 1:

Average throughput: 63.60 Mbit/s

95th percentile per-packet one-way delay: 140.499 ms

Loss rate: 1.28%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-06 10:11:48

End at: 2018-03-06 10:12:18

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 136.563 ms

Loss rate: 1.26%

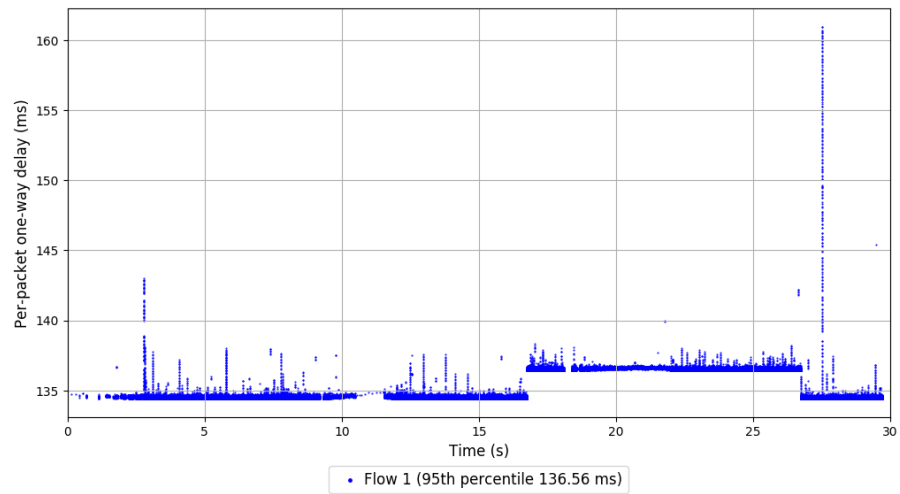
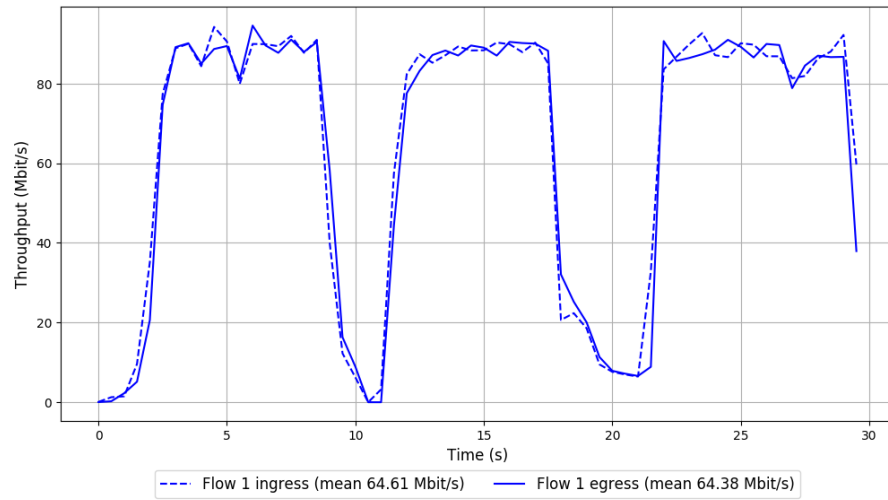
-- Flow 1:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 136.563 ms

Loss rate: 1.26%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-06 10:27:36

End at: 2018-03-06 10:28:06

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 140.835 ms

Loss rate: 1.26%

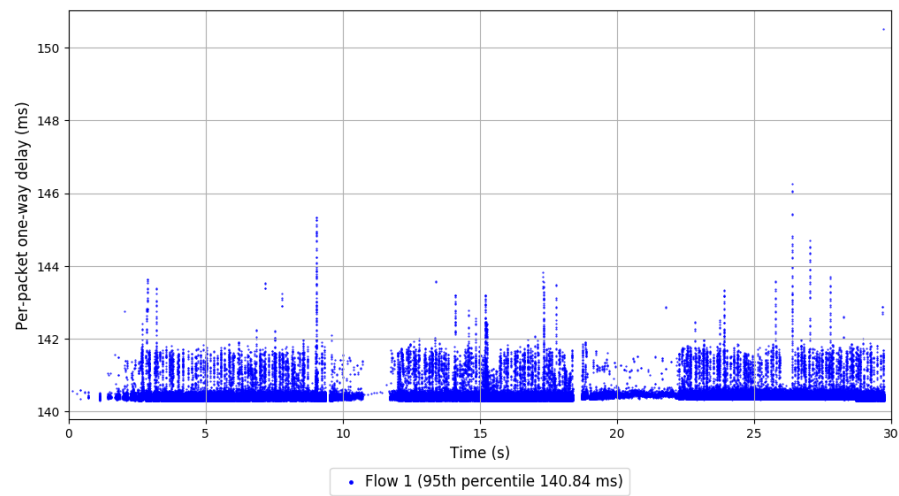
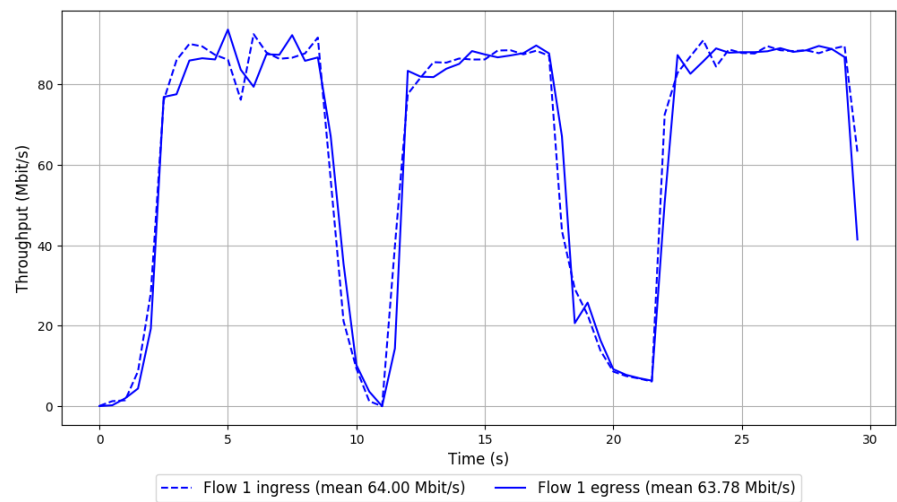
-- Flow 1:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 140.835 ms

Loss rate: 1.26%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-06 10:43:46

End at: 2018-03-06 10:44:16

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 140.475 ms

Loss rate: 1.17%

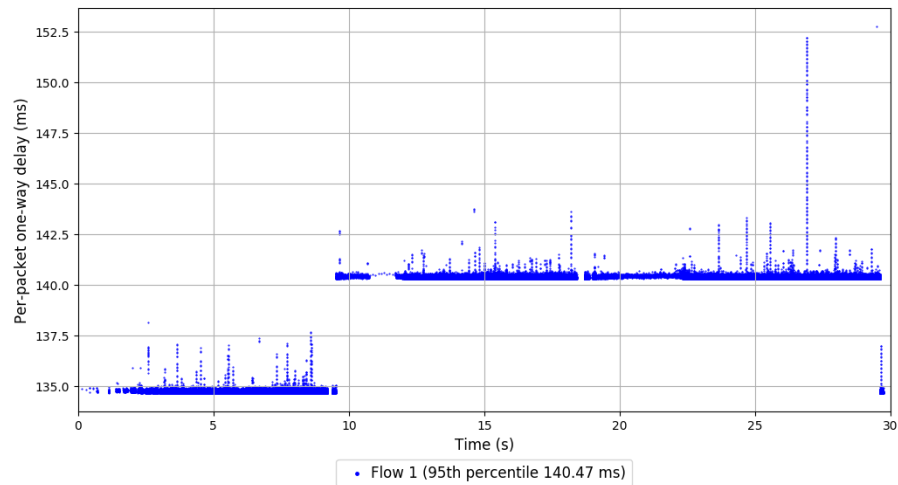
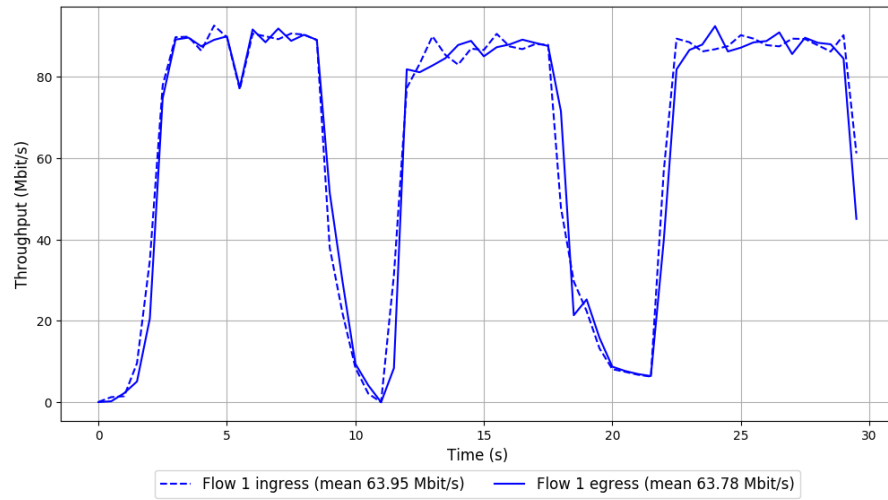
-- Flow 1:

Average throughput: 63.78 Mbit/s

95th percentile per-packet one-way delay: 140.475 ms

Loss rate: 1.17%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-06 10:59:51

End at: 2018-03-06 11:00:21

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.53 Mbit/s

95th percentile per-packet one-way delay: 136.187 ms

Loss rate: 1.18%

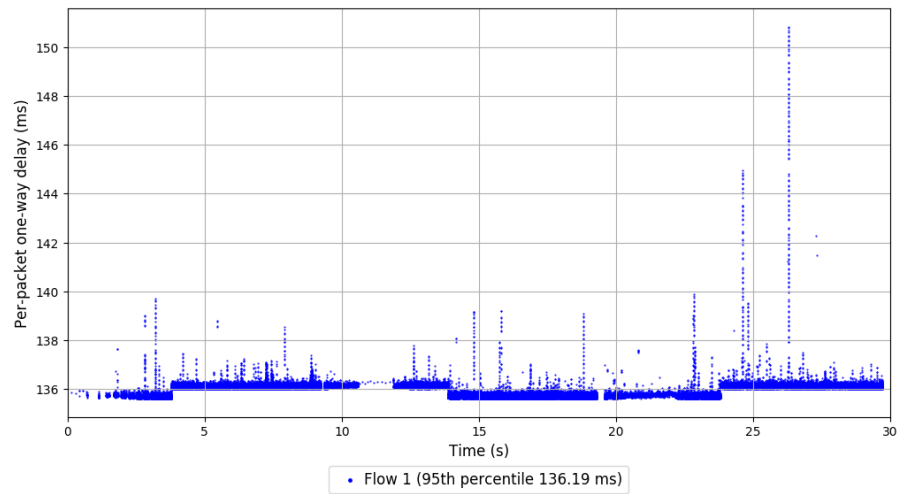
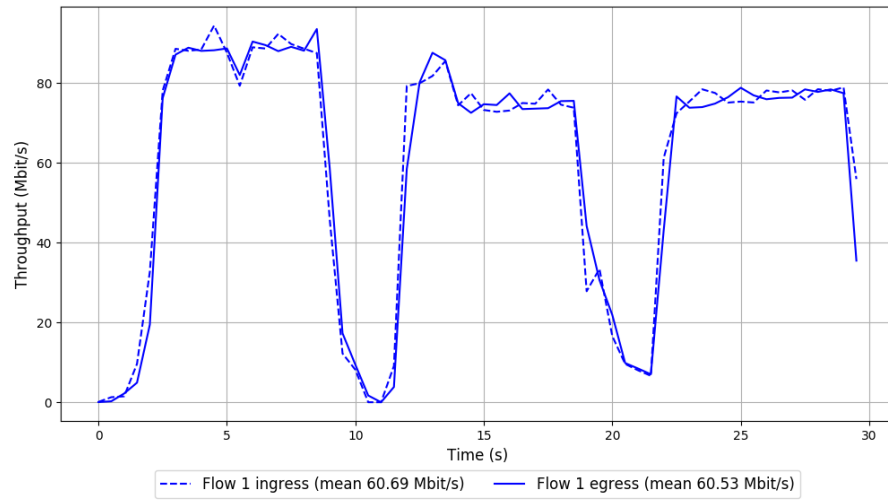
-- Flow 1:

Average throughput: 60.53 Mbit/s

95th percentile per-packet one-way delay: 136.187 ms

Loss rate: 1.18%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-06 11:15:46

End at: 2018-03-06 11:16:16

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.20 Mbit/s

95th percentile per-packet one-way delay: 135.233 ms

Loss rate: 1.26%

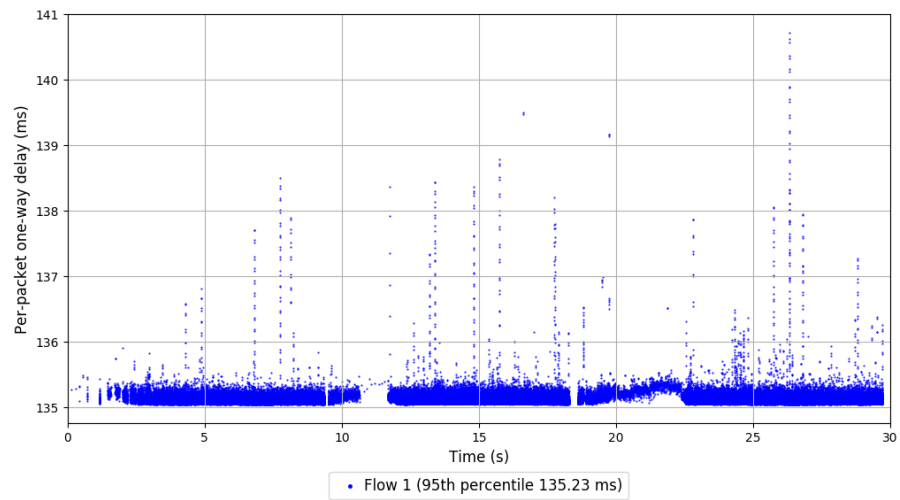
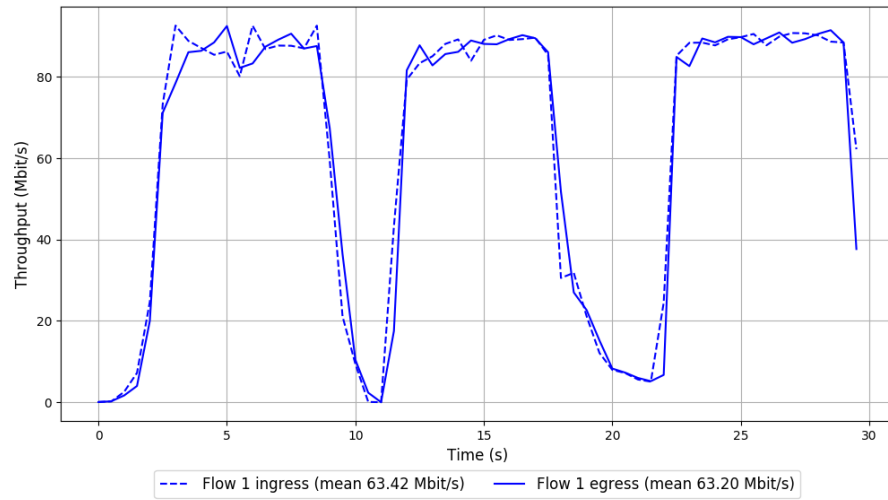
-- Flow 1:

Average throughput: 63.20 Mbit/s

95th percentile per-packet one-way delay: 135.233 ms

Loss rate: 1.26%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-06 11:31:50

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

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.53 Mbit/s

95th percentile per-packet one-way delay: 135.452 ms

Loss rate: 1.18%

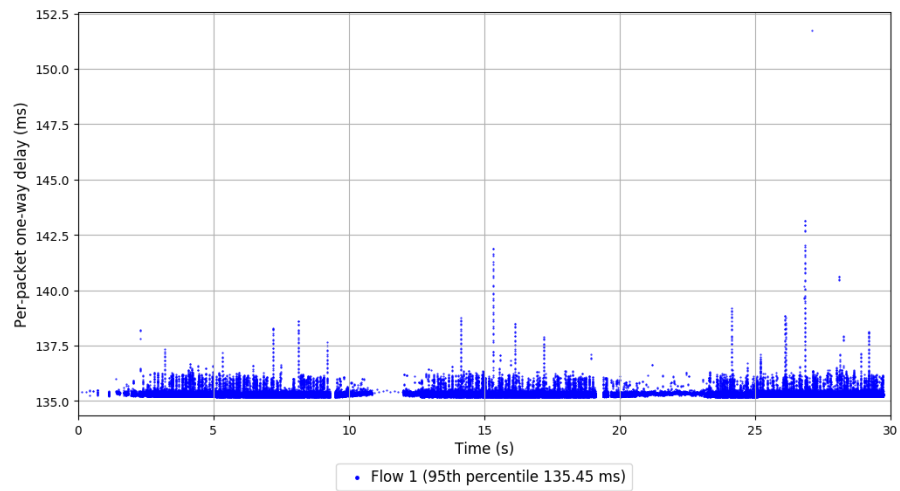
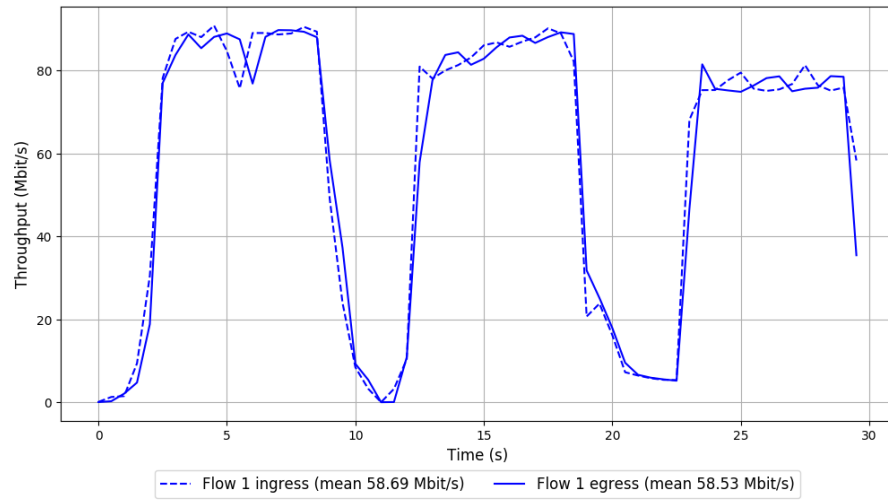
-- Flow 1:

Average throughput: 58.53 Mbit/s

95th percentile per-packet one-way delay: 135.452 ms

Loss rate: 1.18%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-06 11:47:53

End at: 2018-03-06 11:48:23

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 136.802 ms

Loss rate: 1.18%

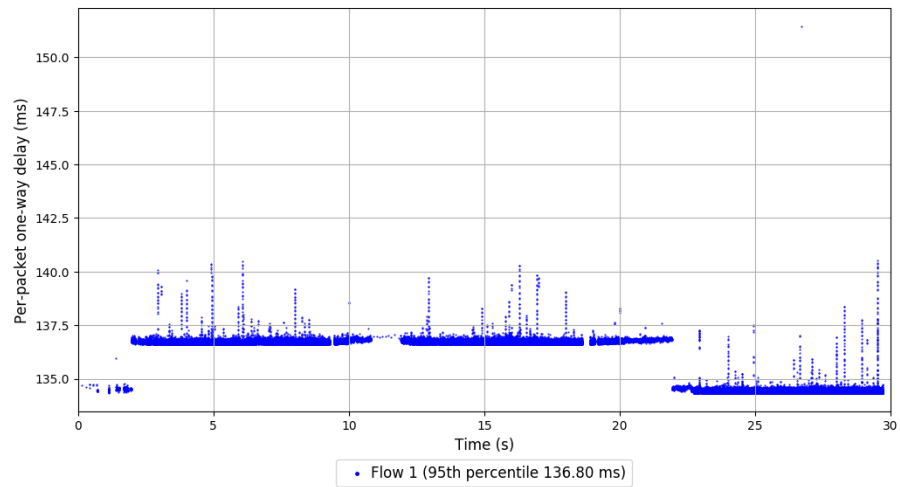
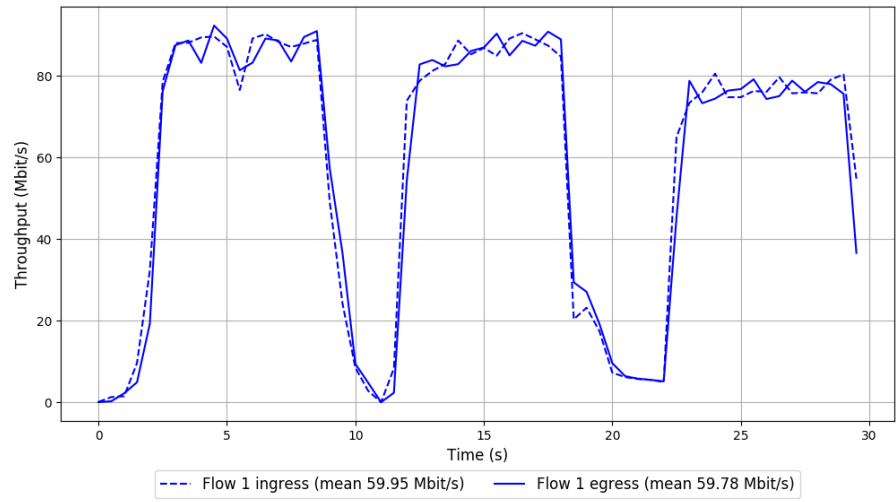
-- Flow 1:

Average throughput: 59.78 Mbit/s

95th percentile per-packet one-way delay: 136.802 ms

Loss rate: 1.18%

Run 10: Report of QUIC Cubic — Data Link

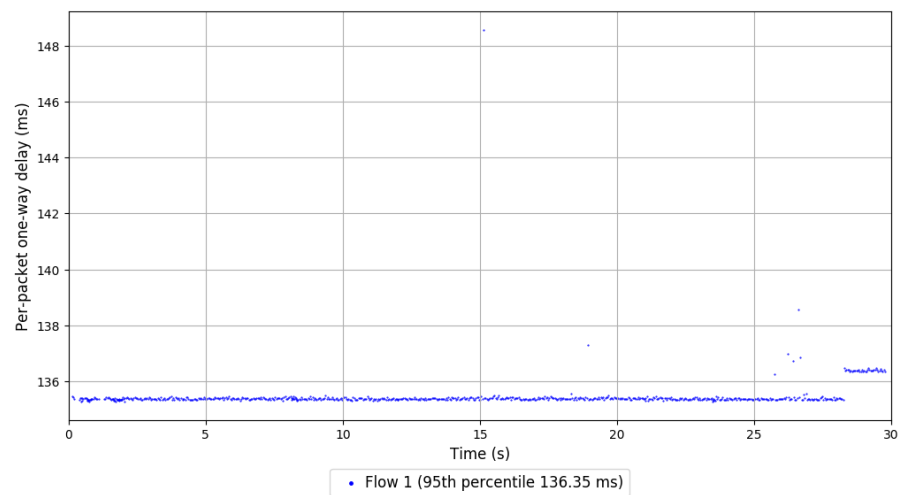
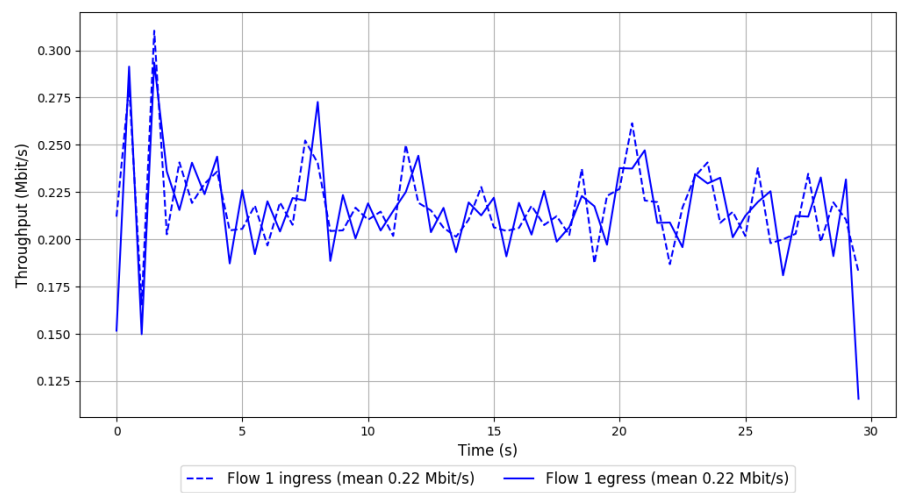


```
Run 1: Statistics of SCReAM

Start at: 2018-03-06 09:19:07
End at: 2018-03-06 09:19:37

# Below is generated by plot.py at 2018-03-06 15:04:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.355 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.355 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-06 09:35:11

End at: 2018-03-06 09:35:41

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.603 ms

Loss rate: 0.89%

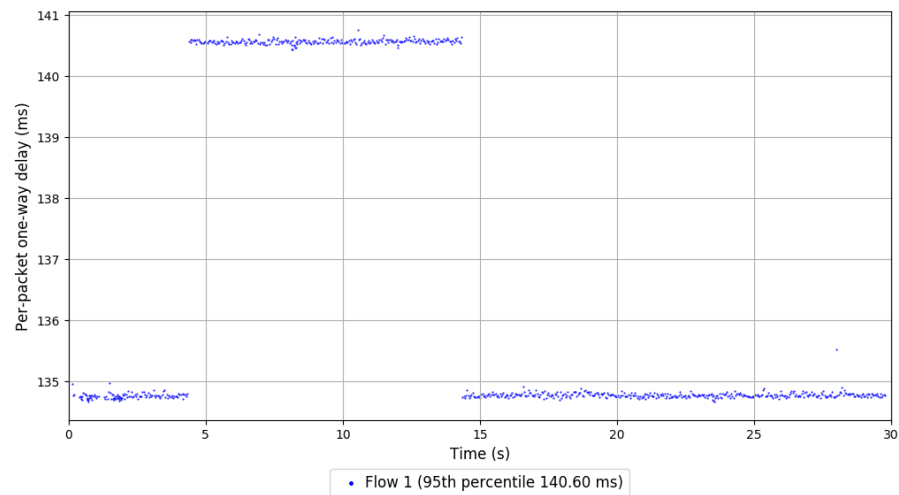
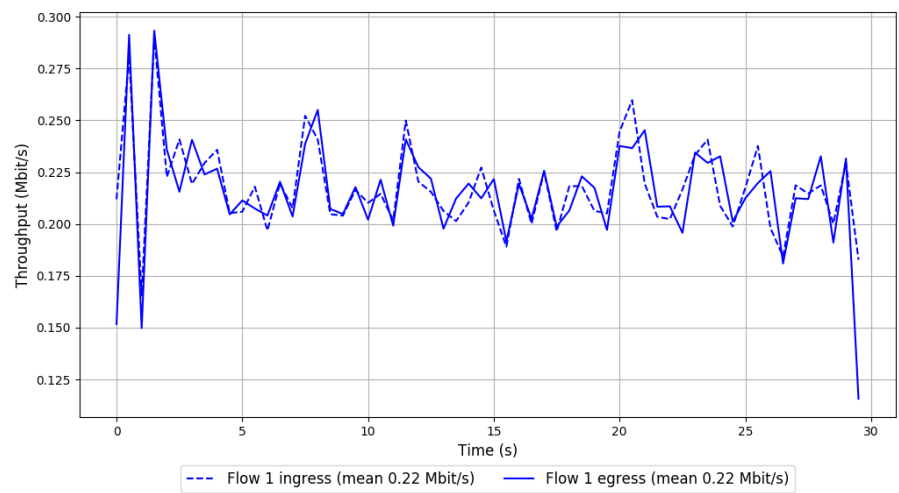
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.603 ms

Loss rate: 0.89%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-06 09:51:21

End at: 2018-03-06 09:51:51

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.624 ms

Loss rate: 0.89%

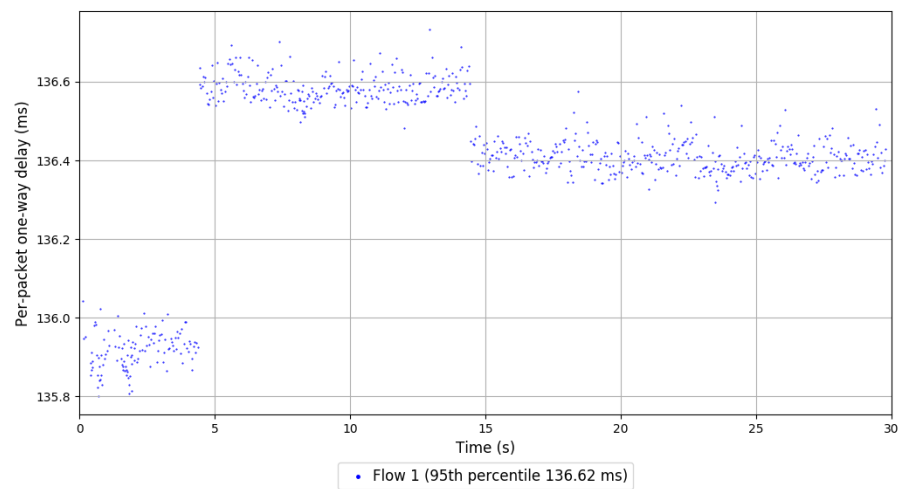
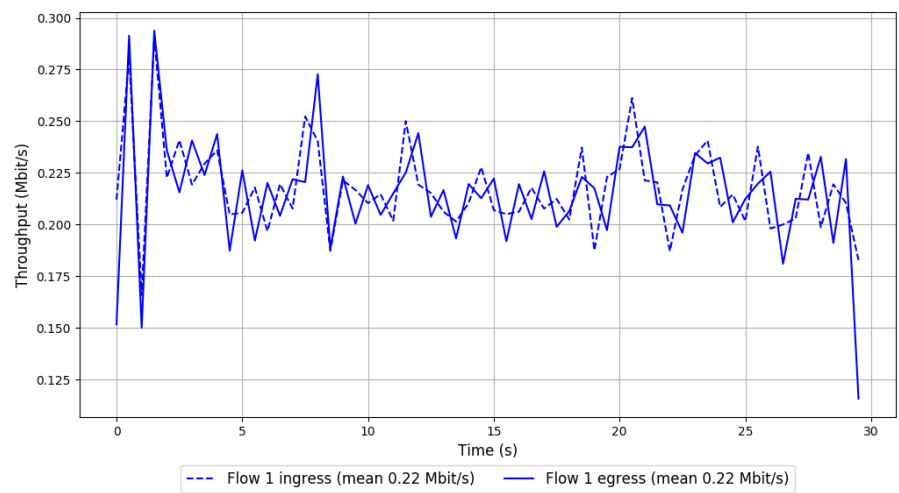
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.624 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-06 10:07:29

End at: 2018-03-06 10:07:59

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.981 ms

Loss rate: 1.02%

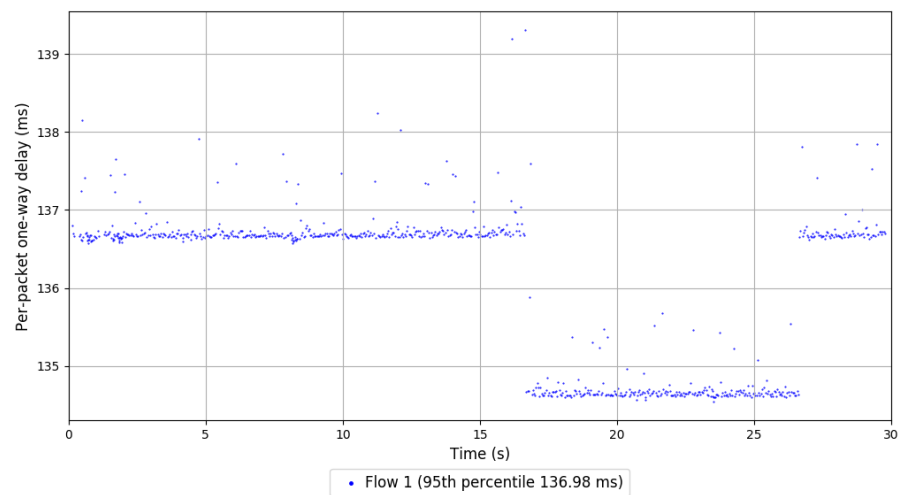
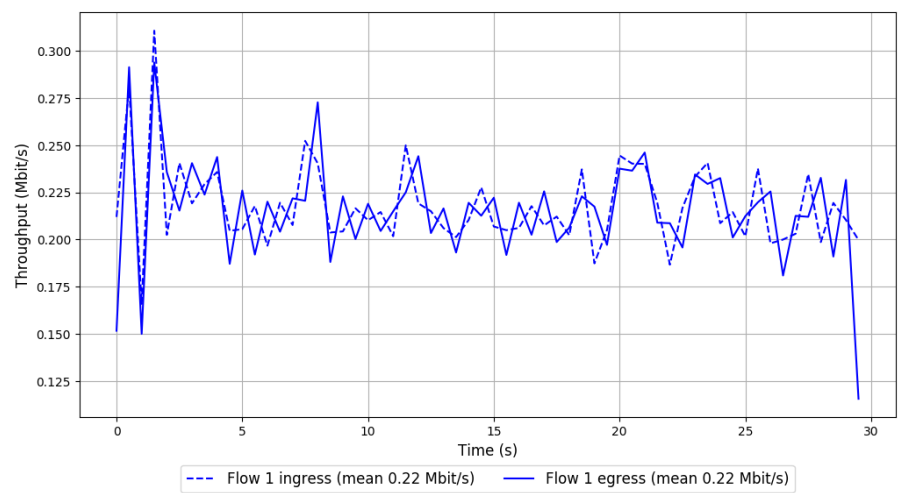
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.981 ms

Loss rate: 1.02%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-06 10:23:18

End at: 2018-03-06 10:23:48

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.193 ms

Loss rate: 0.90%

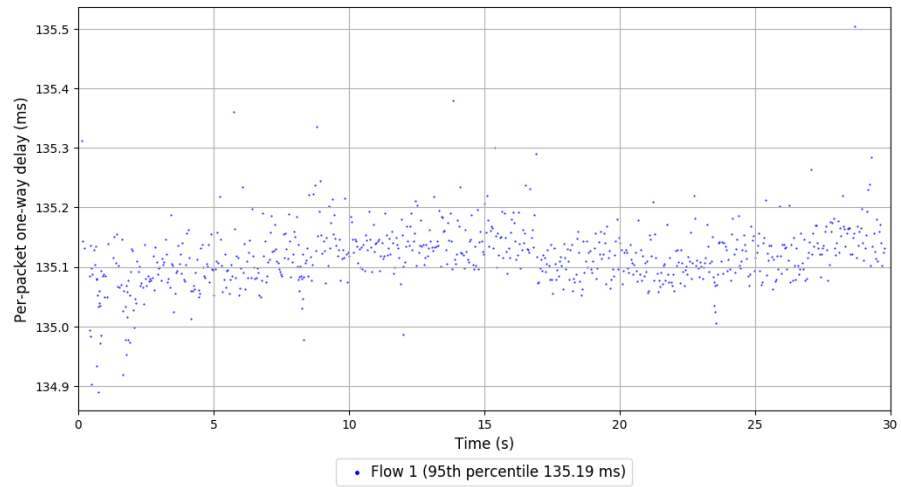
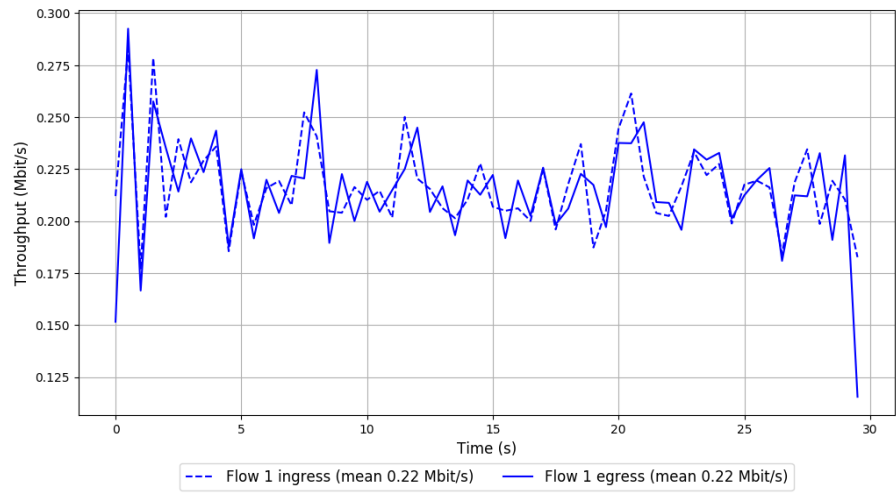
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.193 ms

Loss rate: 0.90%

Run 5: Report of SCRaM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-06 10:39:28

End at: 2018-03-06 10:39:58

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.980 ms

Loss rate: 1.02%

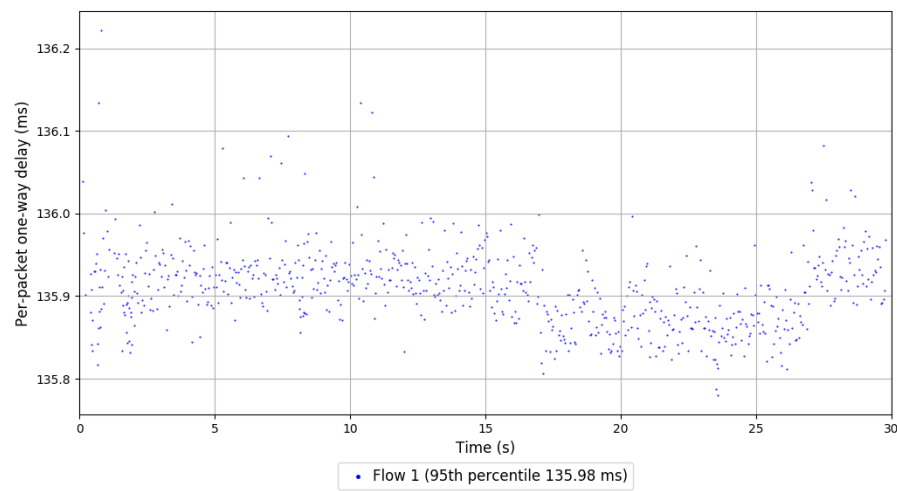
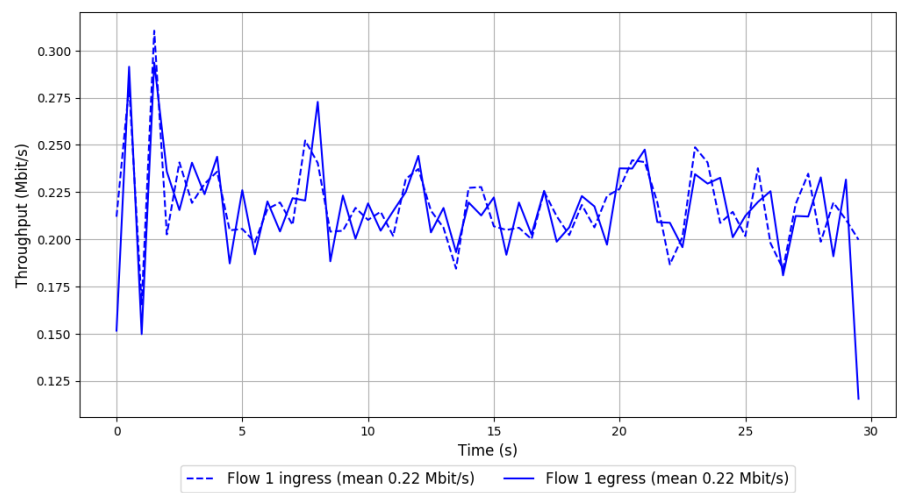
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.980 ms

Loss rate: 1.02%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-06 10:55:33

End at: 2018-03-06 10:56:03

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.060 ms

Loss rate: 0.89%

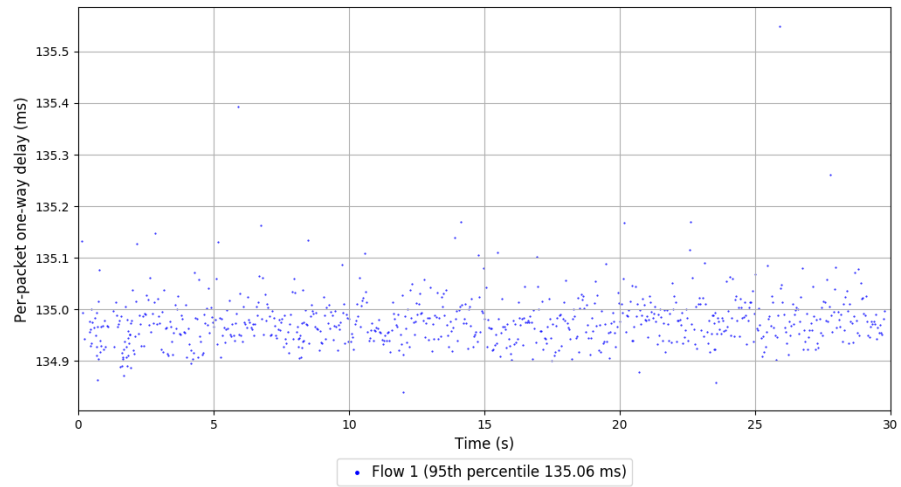
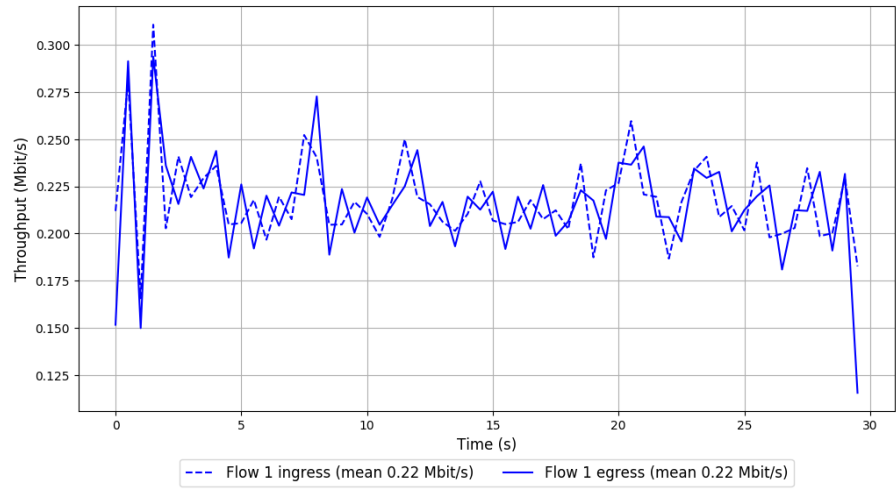
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.060 ms

Loss rate: 0.89%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-06 11:11:29

End at: 2018-03-06 11:11:59

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.700 ms

Loss rate: 0.77%

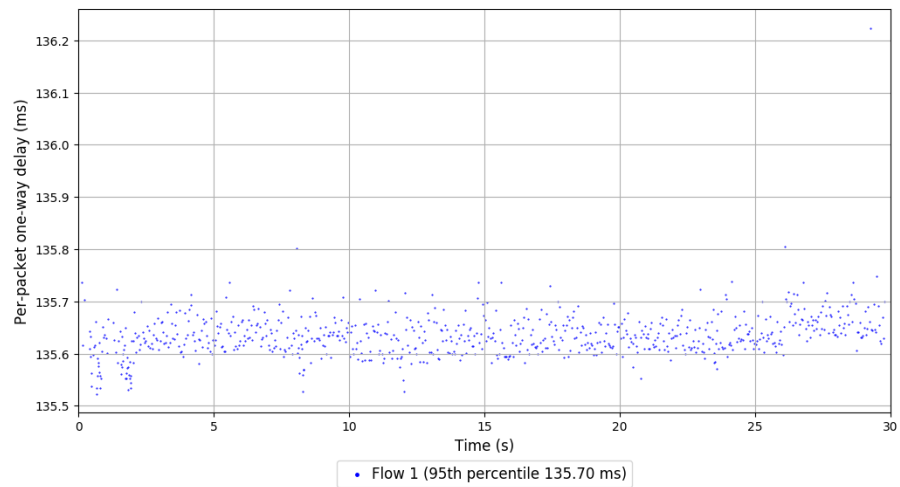
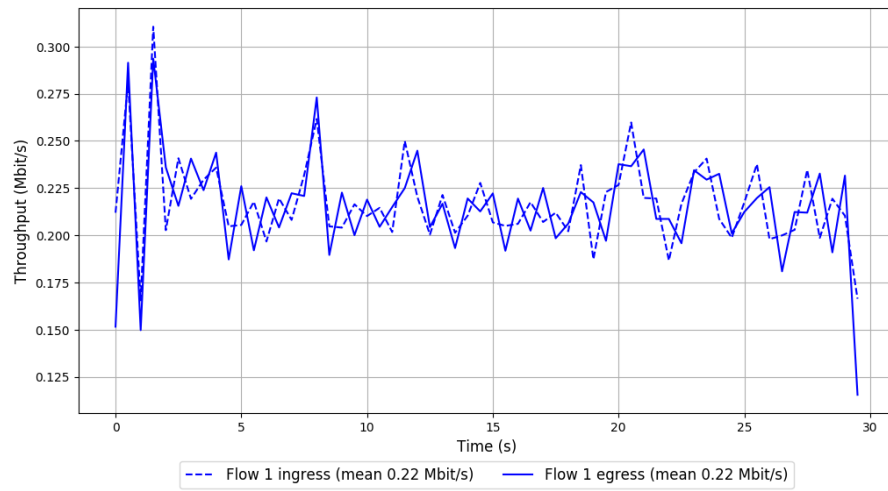
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.700 ms

Loss rate: 0.77%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-06 11:27:35

End at: 2018-03-06 11:28:05

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.973 ms

Loss rate: 0.90%

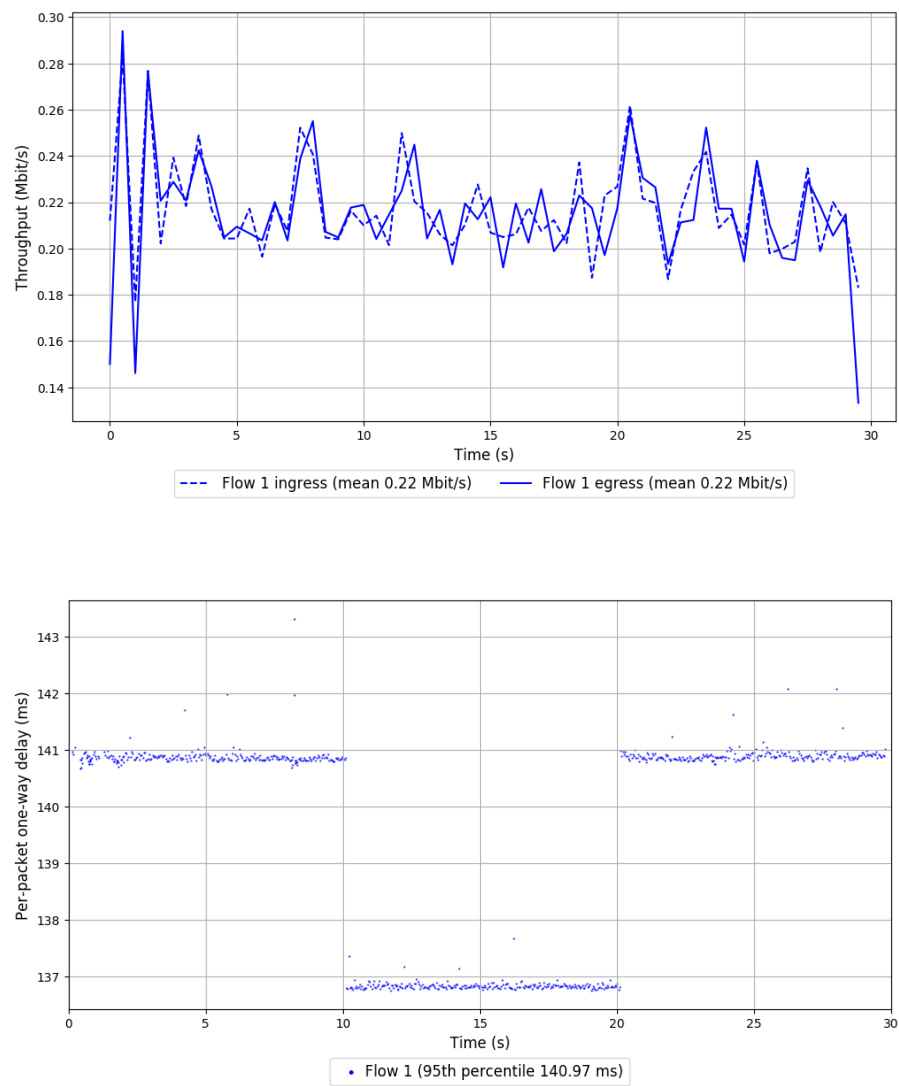
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 140.973 ms

Loss rate: 0.90%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-06 11:43:34

End at: 2018-03-06 11:44:04

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.721 ms

Loss rate: 0.89%

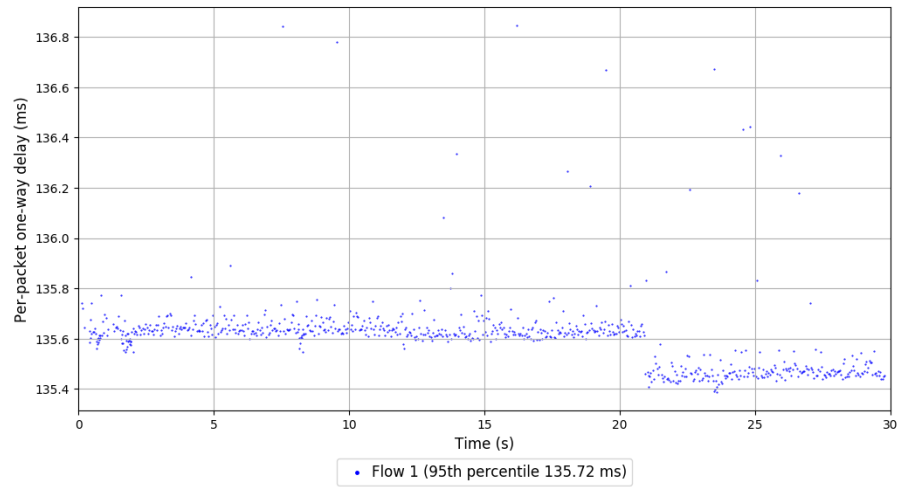
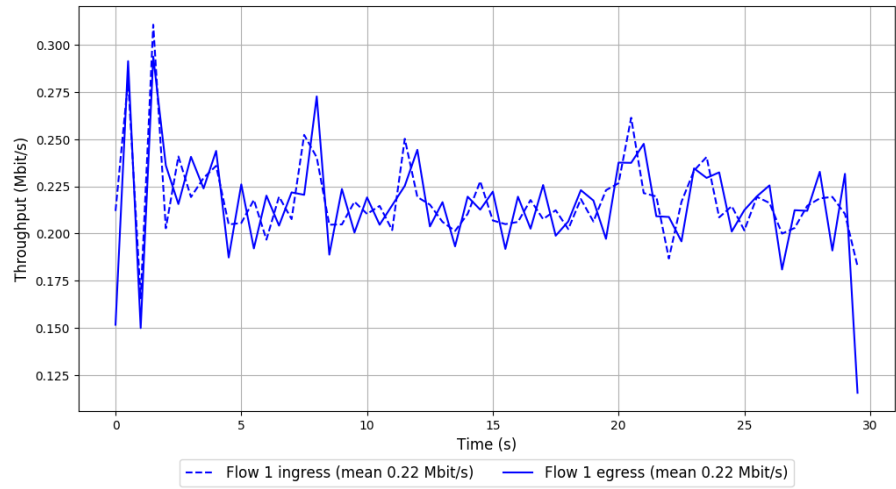
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.721 ms

Loss rate: 0.89%

Run 10: Report of SReAM — Data Link

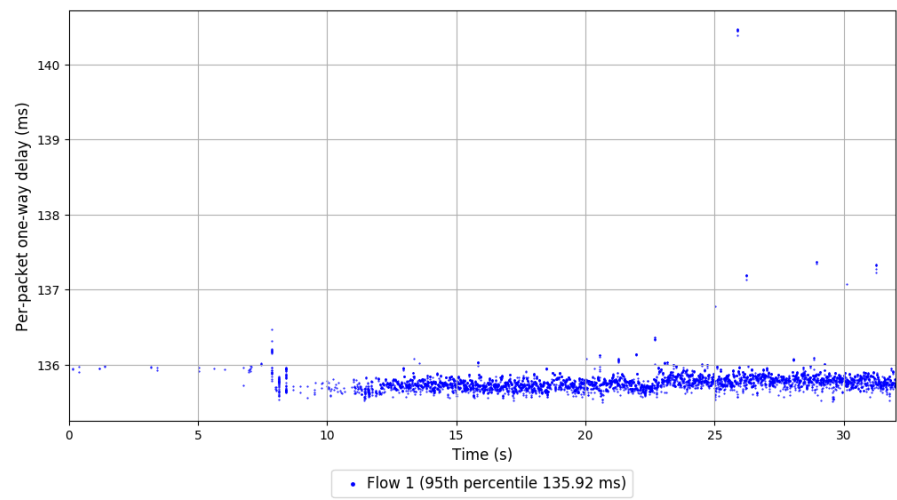
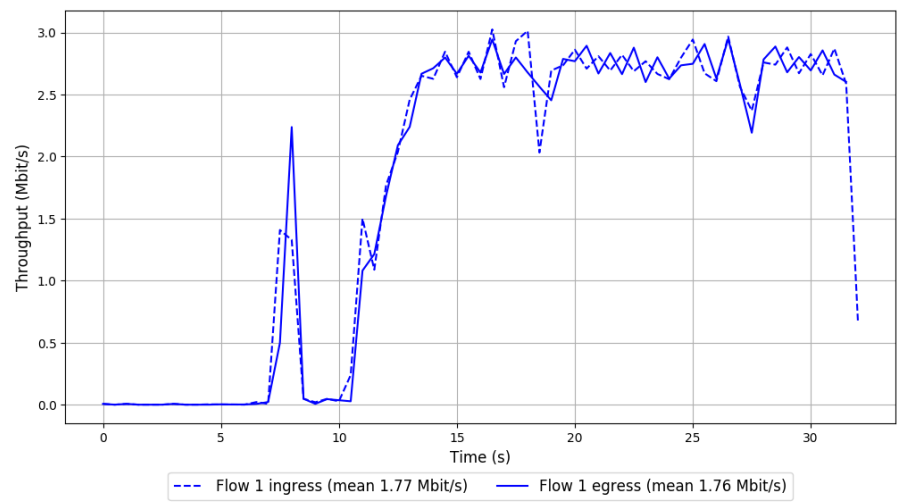


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-06 09:17:40
End at: 2018-03-06 09:18:10

# Below is generated by plot.py at 2018-03-06 15:04:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 135.916 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 1.76 Mbit/s
95th percentile per-packet one-way delay: 135.916 ms
Loss rate: 1.35%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-06 09:33:43

End at: 2018-03-06 09:34:13

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.108 ms

Loss rate: 1.04%

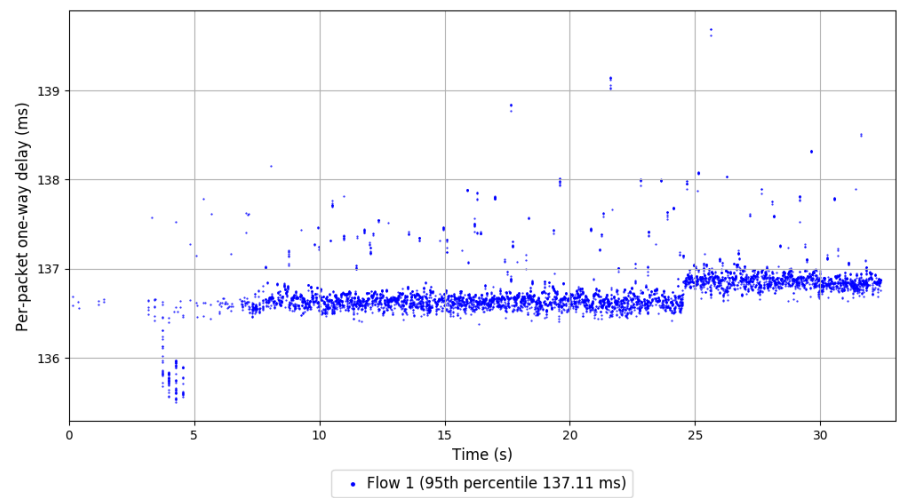
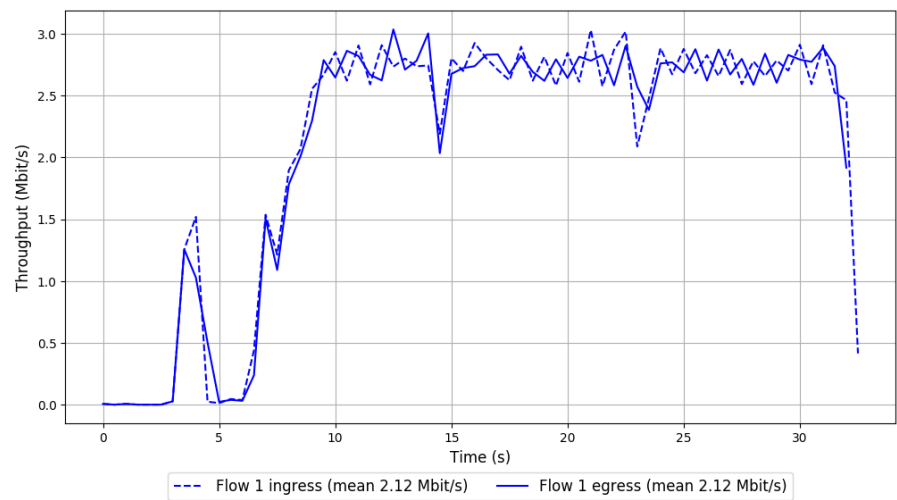
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.108 ms

Loss rate: 1.04%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-06 09:49:35

End at: 2018-03-06 09:50:05

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 141.103 ms

Loss rate: 1.03%

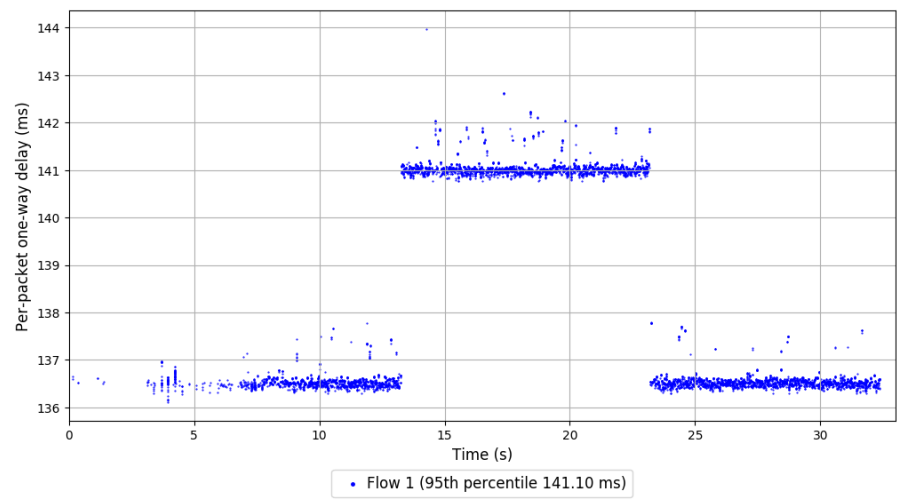
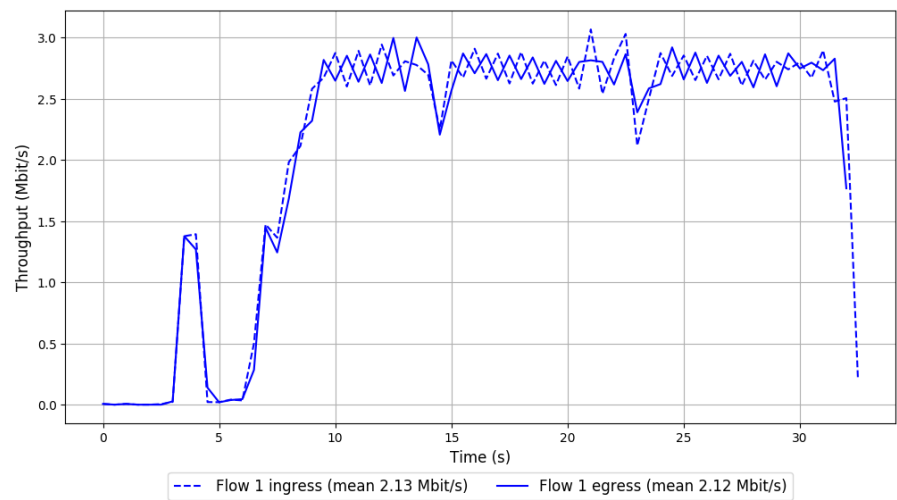
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 141.103 ms

Loss rate: 1.03%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-06 10:05:54

End at: 2018-03-06 10:06:24

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.856 ms

Loss rate: 0.92%

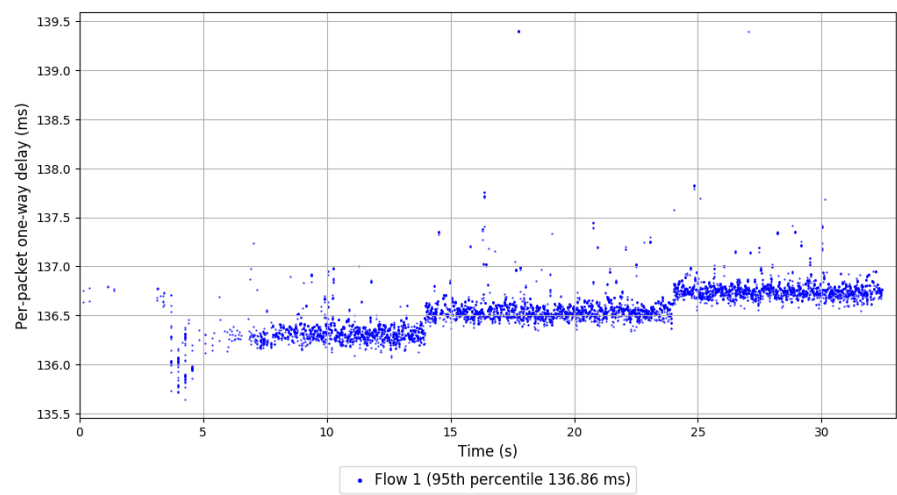
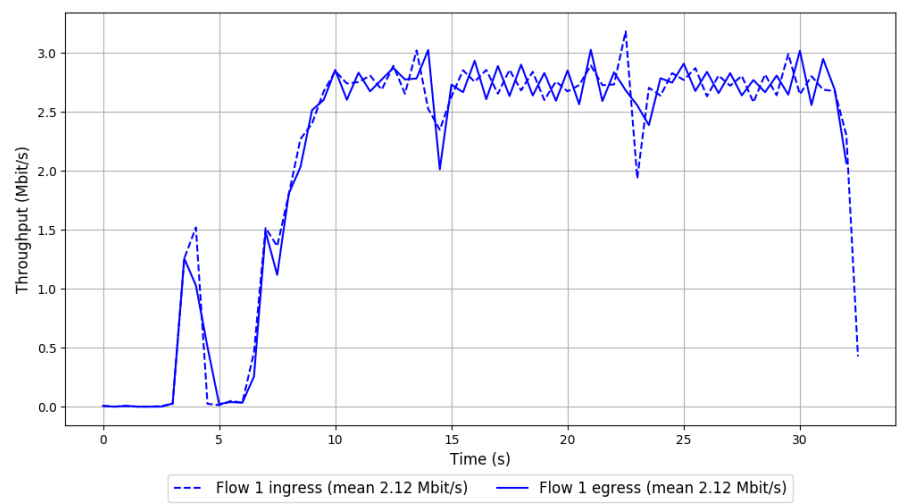
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.856 ms

Loss rate: 0.92%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-06 10:21:51

End at: 2018-03-06 10:22:21

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.830 ms

Loss rate: 1.07%

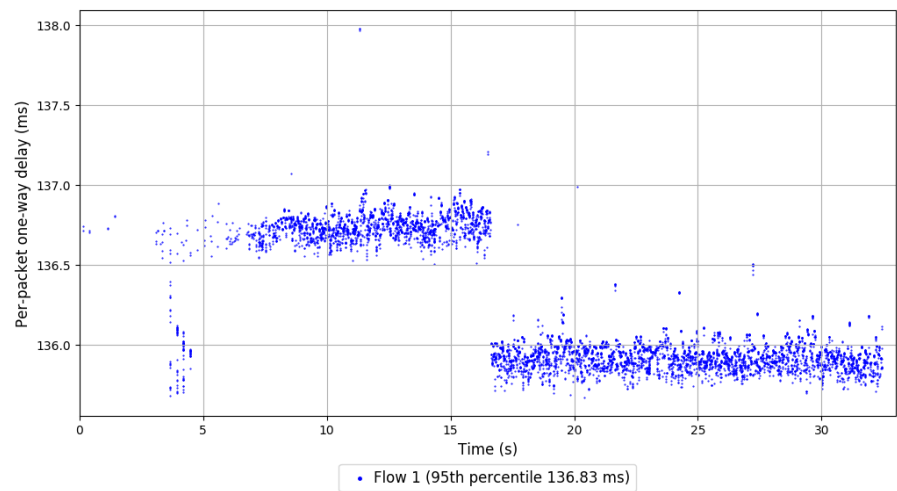
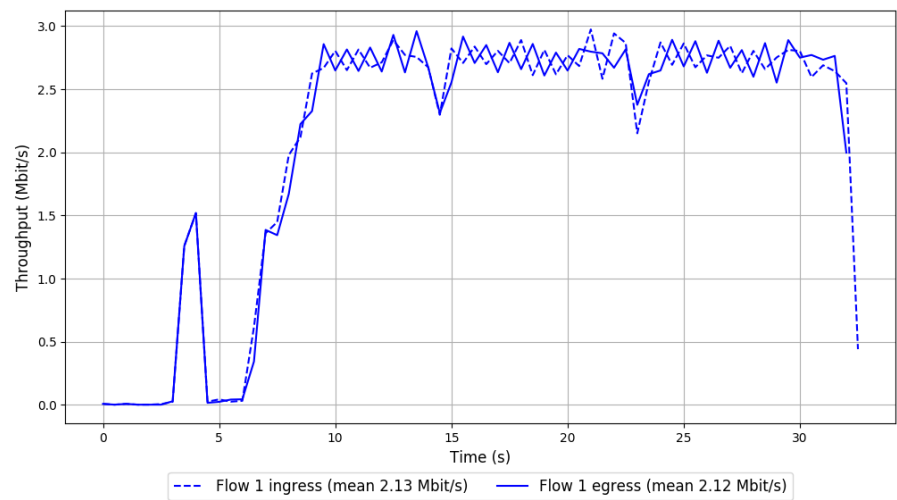
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.830 ms

Loss rate: 1.07%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-06 10:37:43

End at: 2018-03-06 10:38:13

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.095 ms

Loss rate: 1.05%

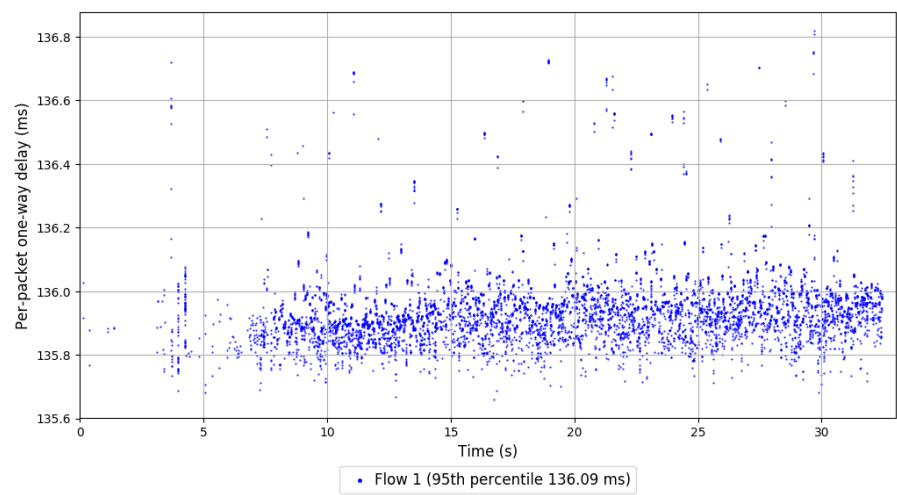
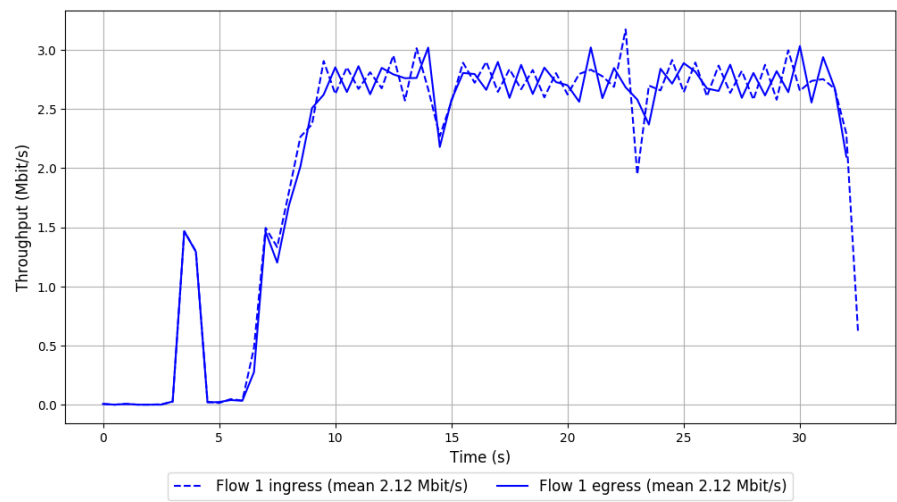
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.095 ms

Loss rate: 1.05%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-06 10:54:06

End at: 2018-03-06 10:54:36

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.640 ms

Loss rate: 0.93%

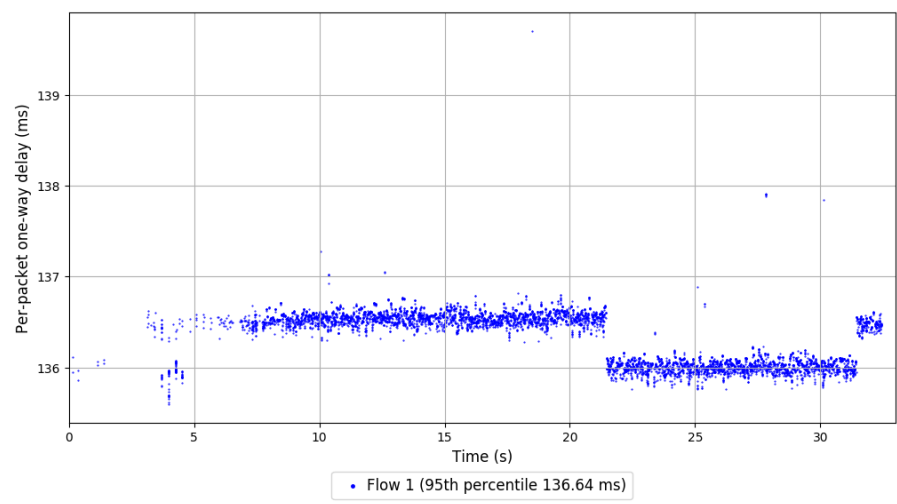
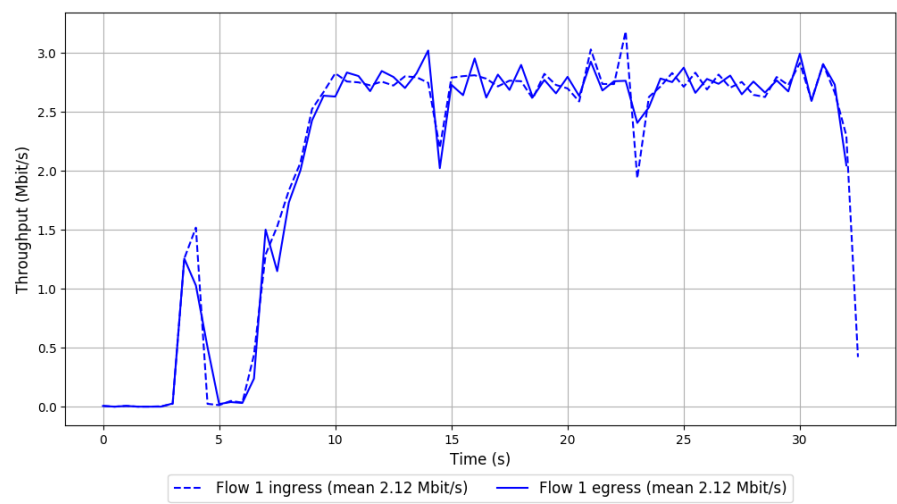
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.640 ms

Loss rate: 0.93%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-06 11:10:02

End at: 2018-03-06 11:10:32

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.535 ms

Loss rate: 0.95%

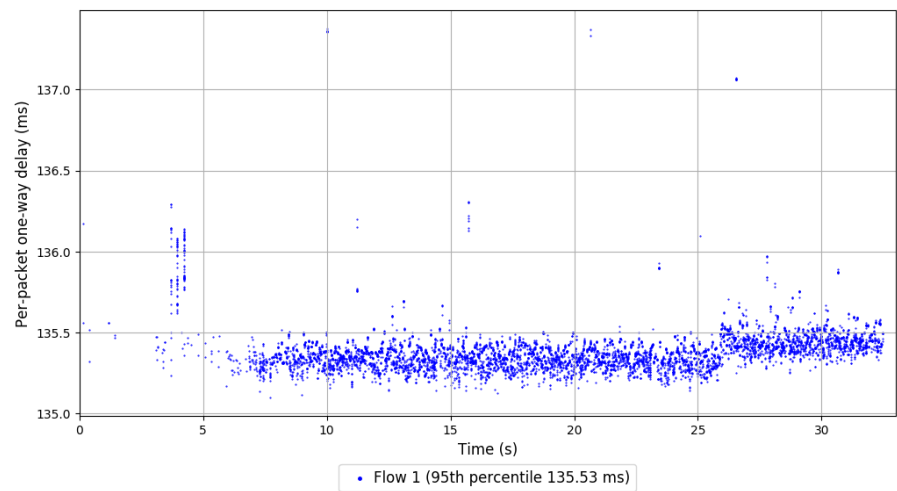
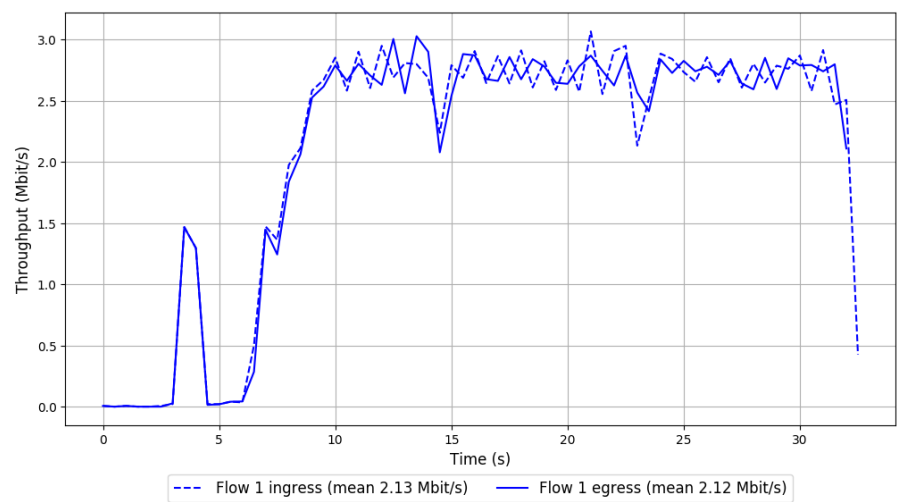
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.535 ms

Loss rate: 0.95%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-06 11:25:49

End at: 2018-03-06 11:26:19

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.182 ms

Loss rate: 0.99%

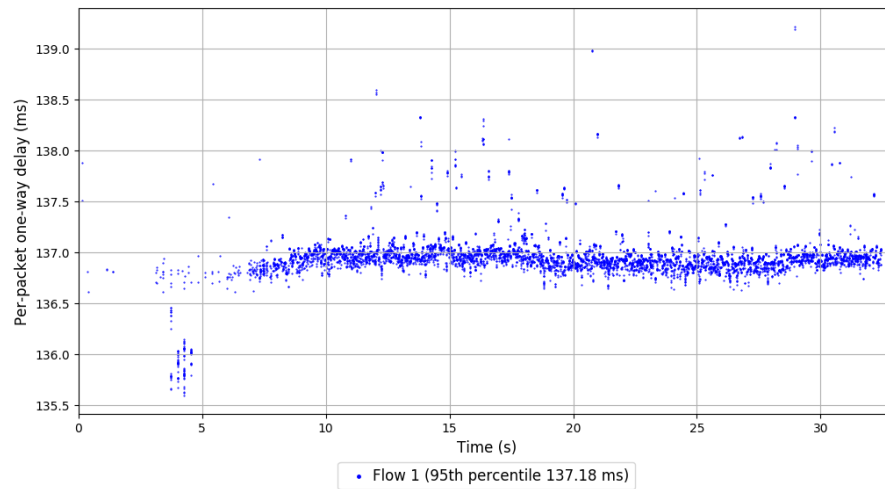
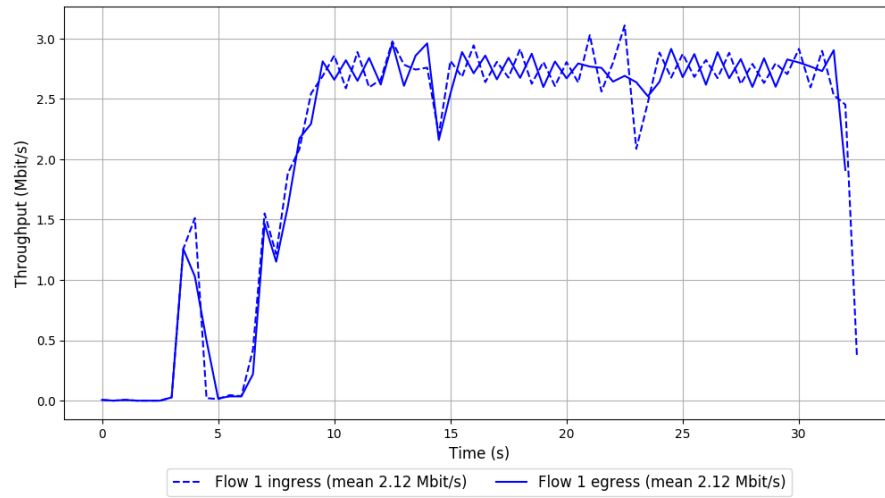
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 137.182 ms

Loss rate: 0.99%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-06 11:42:07

End at: 2018-03-06 11:42:37

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.605 ms

Loss rate: 1.22%

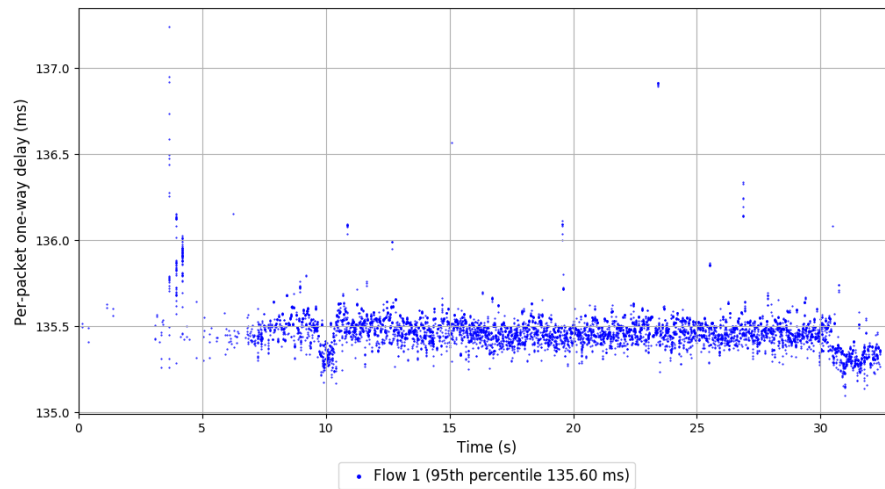
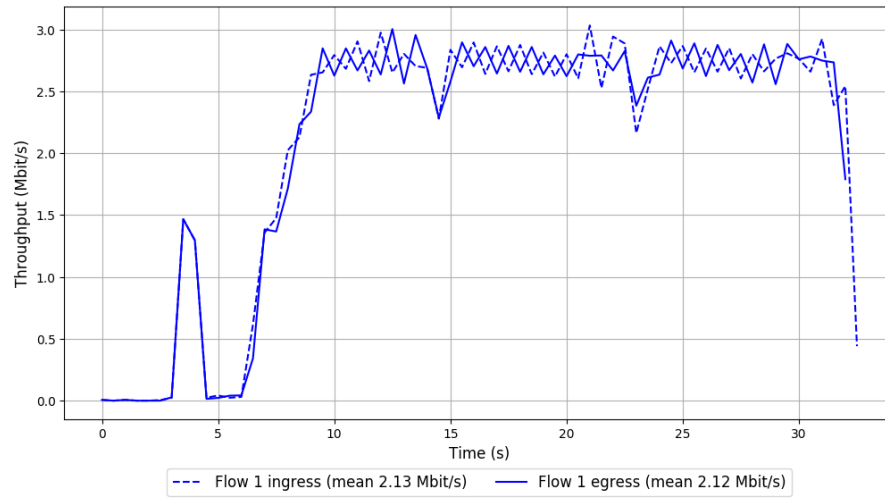
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 135.605 ms

Loss rate: 1.22%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-06 09:29:27

End at: 2018-03-06 09:29:57

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.902 ms

Loss rate: 1.33%

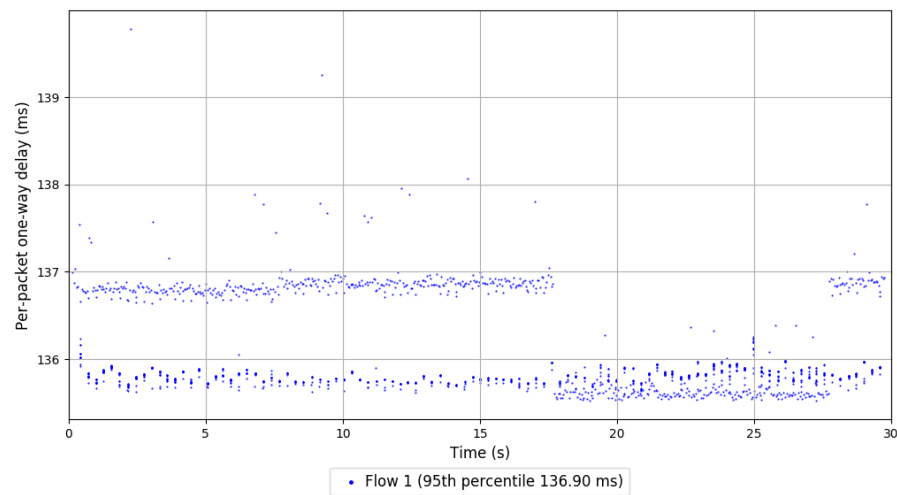
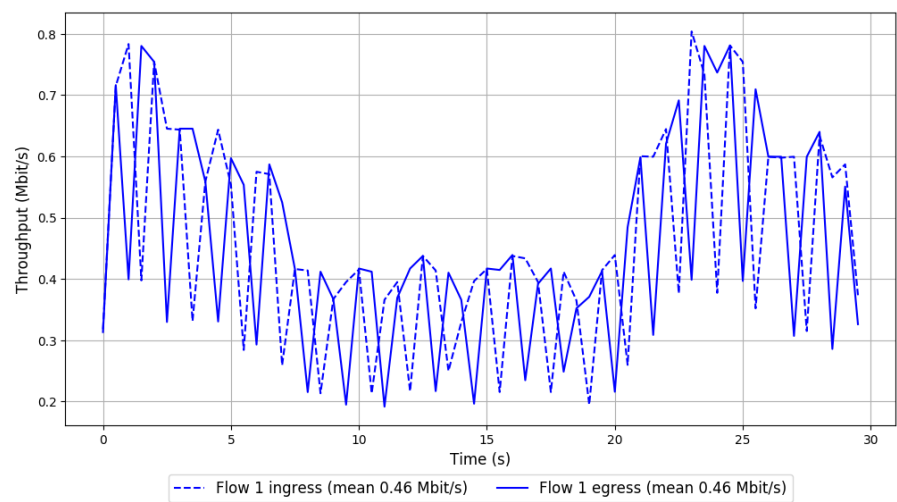
-- Flow 1:

Average throughput: 0.46 Mbit/s

95th percentile per-packet one-way delay: 136.902 ms

Loss rate: 1.33%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-06 09:45:20

End at: 2018-03-06 09:45:50

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.329 ms

Loss rate: 0.94%

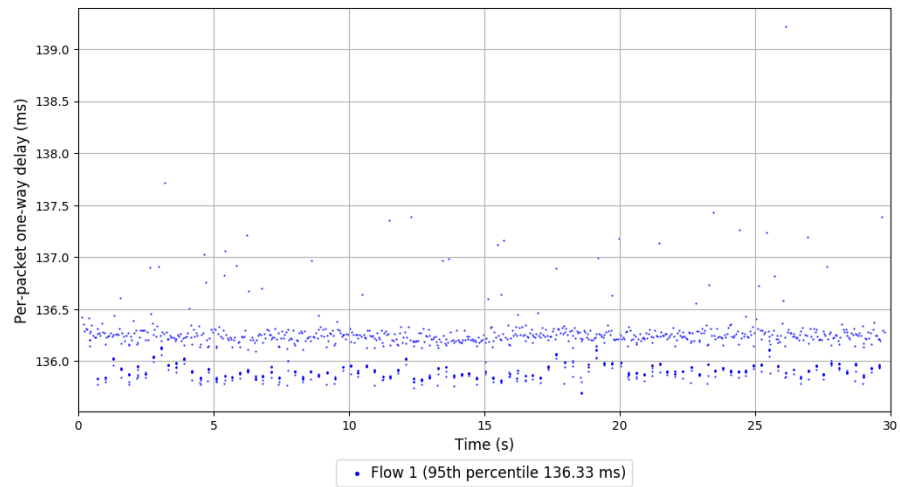
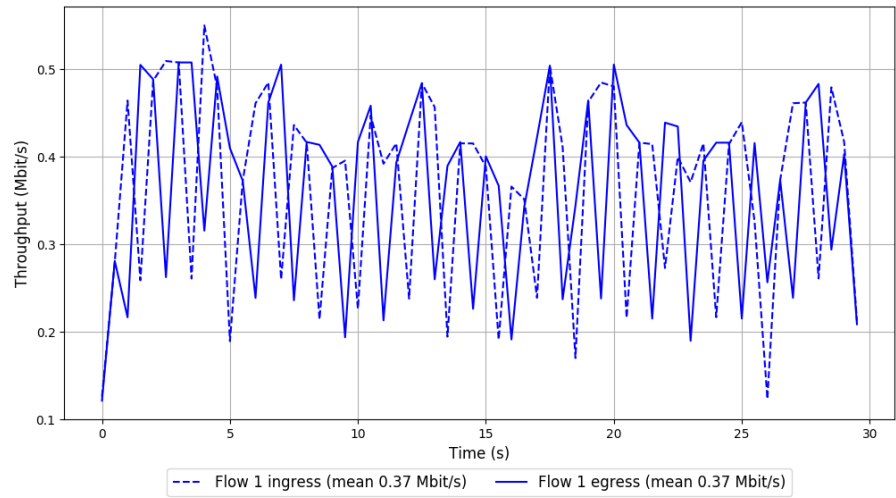
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 136.329 ms

Loss rate: 0.94%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-06 10:01:40

End at: 2018-03-06 10:02:10

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 140.997 ms

Loss rate: 0.96%

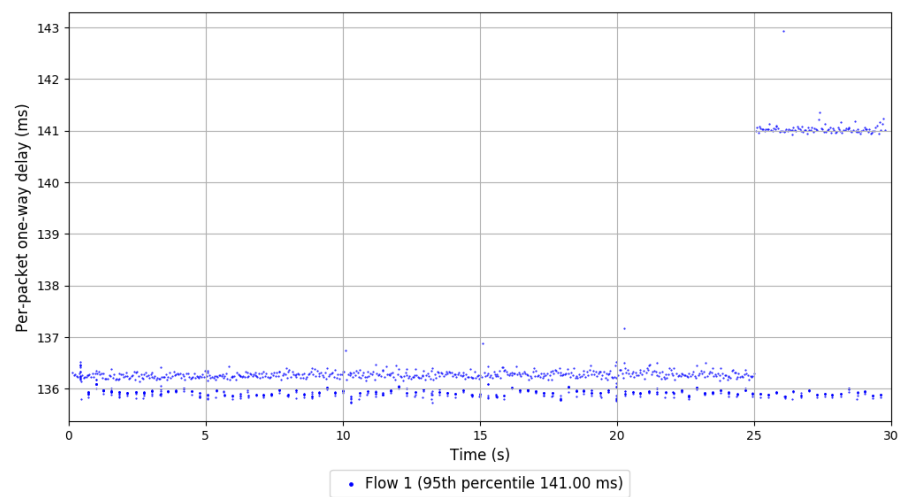
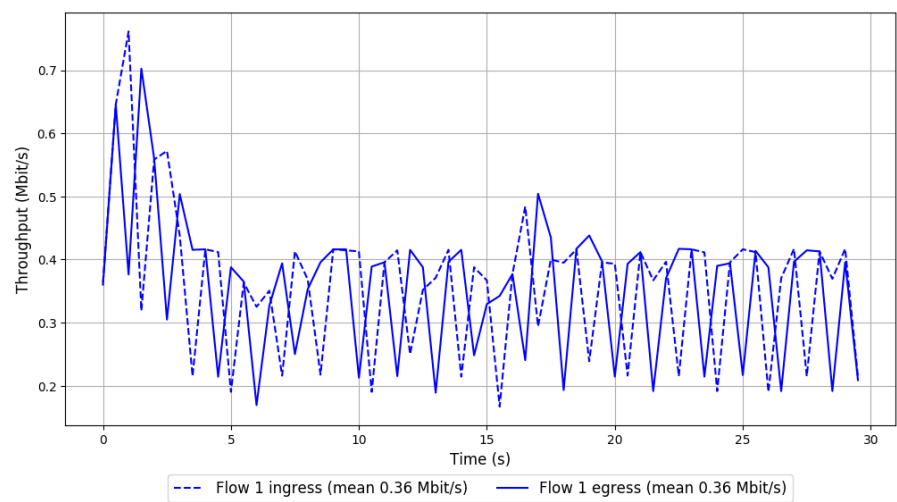
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 140.997 ms

Loss rate: 0.96%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-06 10:17:36

End at: 2018-03-06 10:18:06

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 140.586 ms

Loss rate: 0.75%

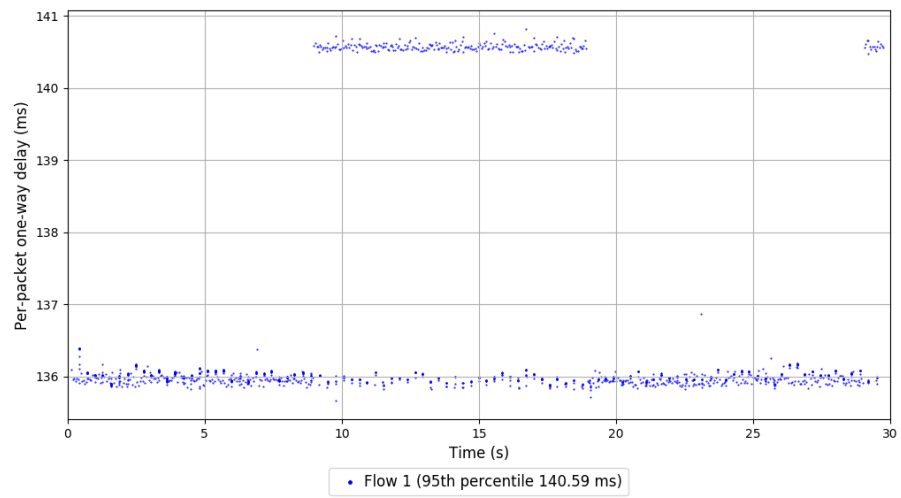
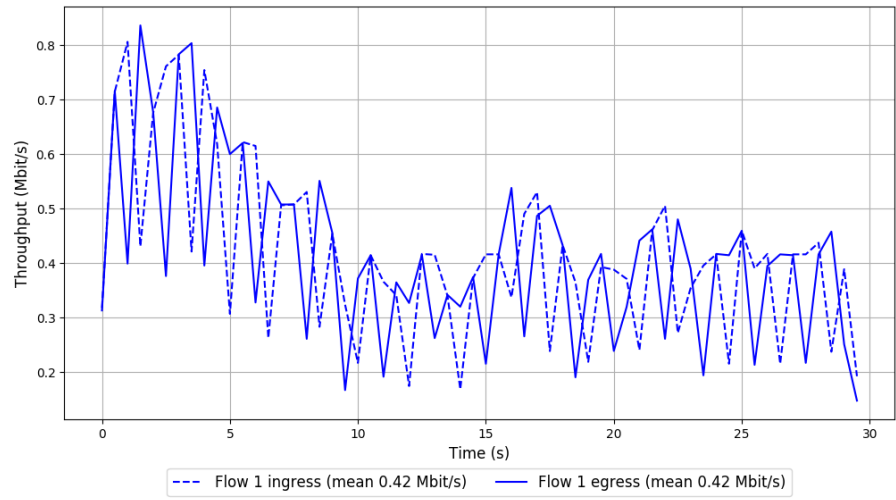
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 140.586 ms

Loss rate: 0.75%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-06 10:33:46

End at: 2018-03-06 10:34:16

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.388 ms

Loss rate: 0.84%

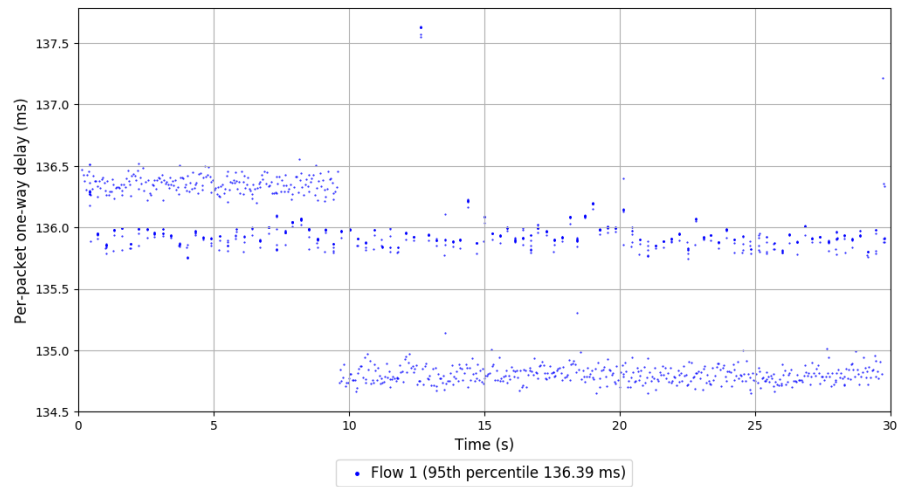
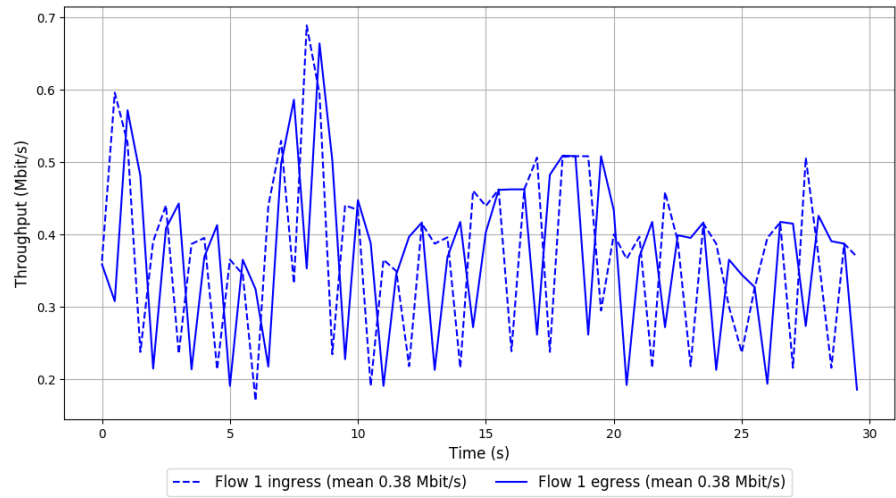
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 136.388 ms

Loss rate: 0.84%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-06 10:49:49

End at: 2018-03-06 10:50:19

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.038 ms

Loss rate: 0.70%

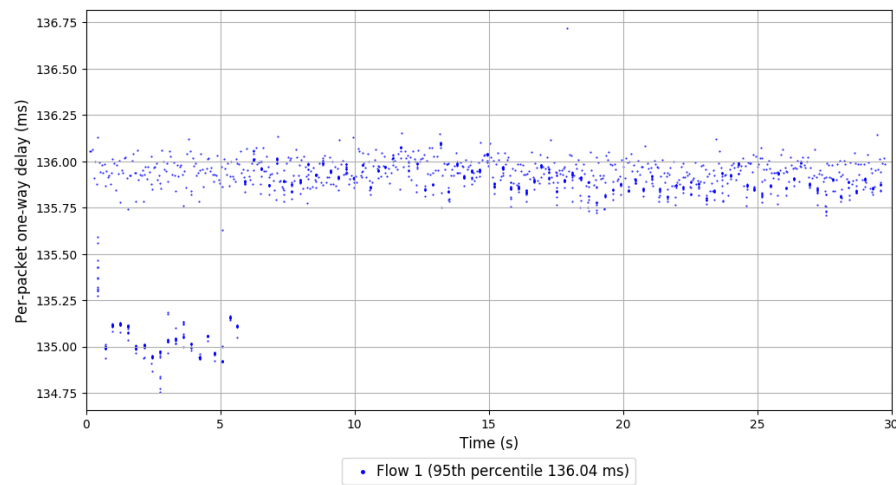
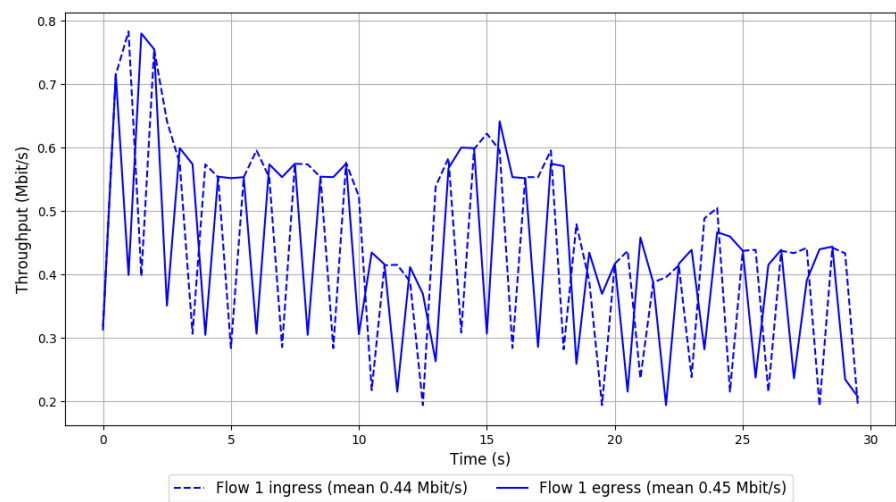
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.038 ms

Loss rate: 0.70%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-06 11:05:50

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

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 0.98%

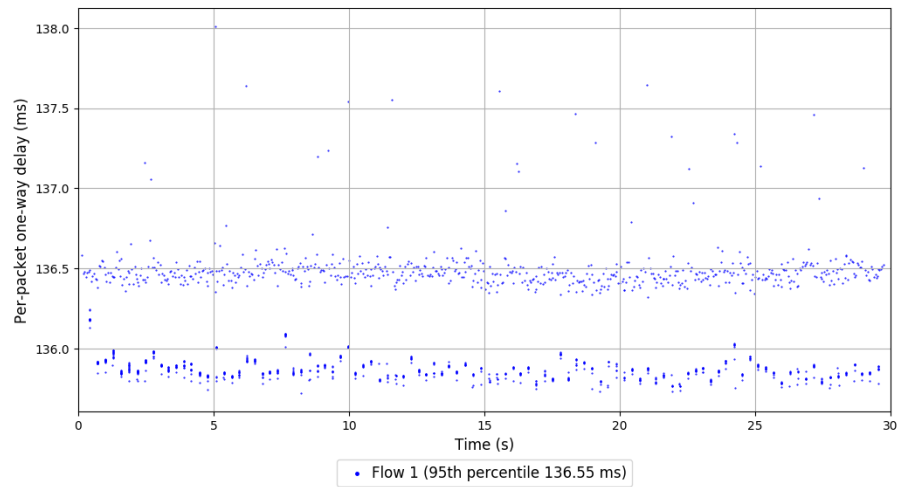
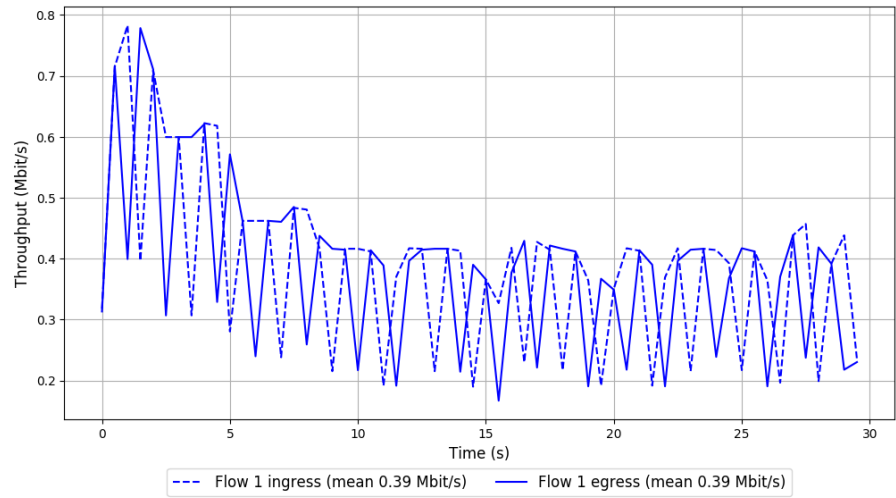
-- Flow 1:

Average throughput: 0.39 Mbit/s

95th percentile per-packet one-way delay: 136.551 ms

Loss rate: 0.98%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-06 11:21:37

End at: 2018-03-06 11:22:07

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.484 ms

Loss rate: 1.07%

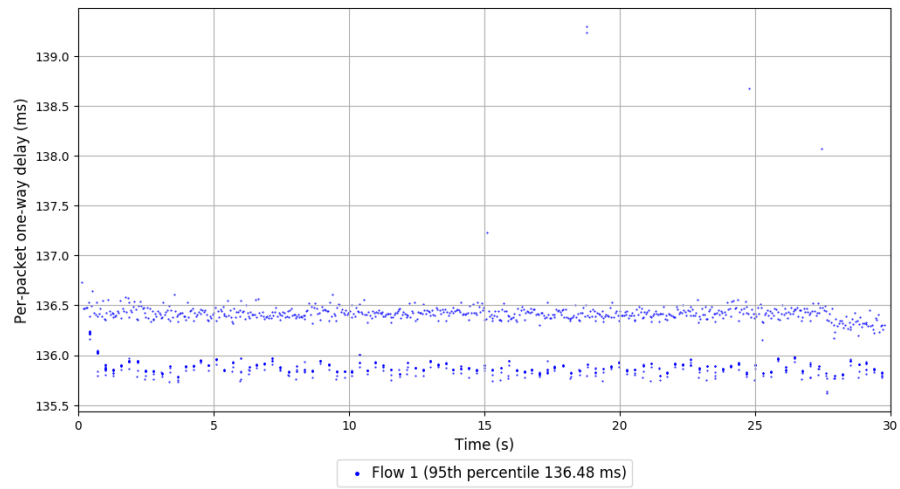
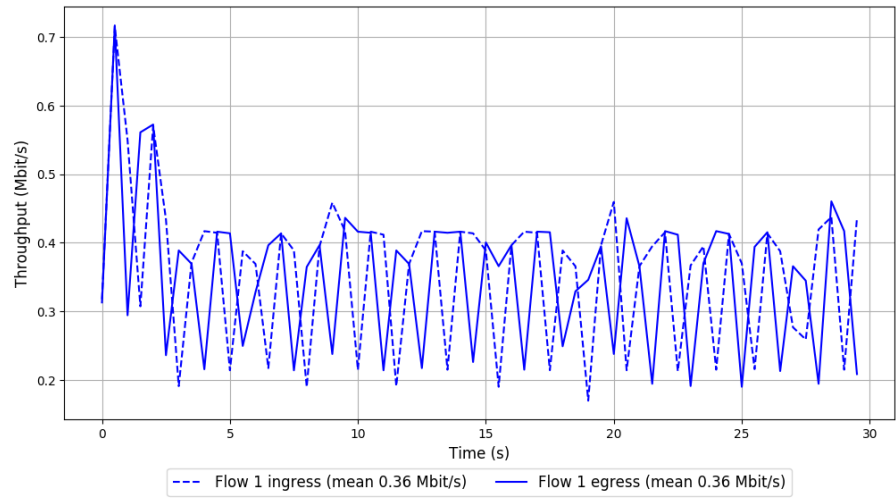
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 136.484 ms

Loss rate: 1.07%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-06 11:37:51

End at: 2018-03-06 11:38:21

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.221 ms

Loss rate: 0.70%

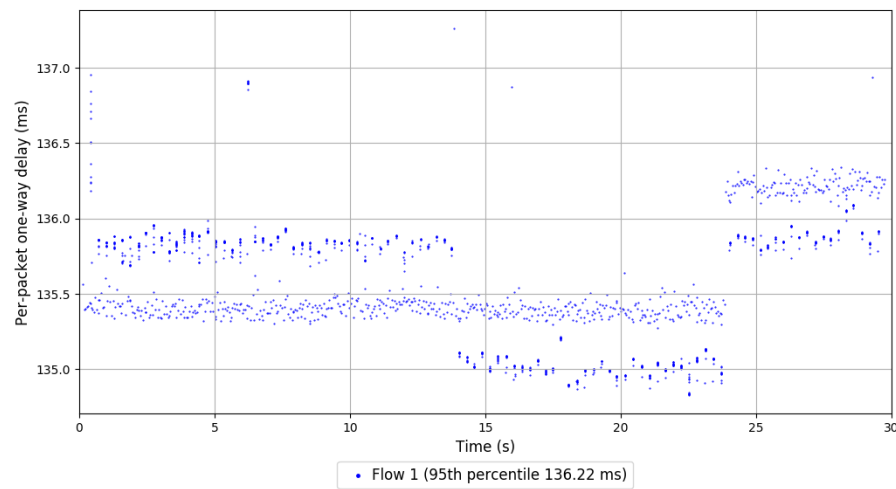
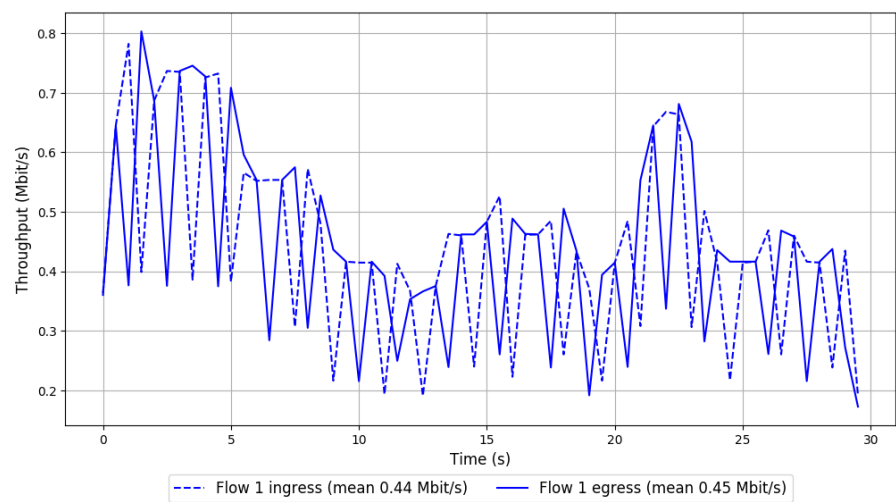
-- Flow 1:

Average throughput: 0.45 Mbit/s

95th percentile per-packet one-way delay: 136.221 ms

Loss rate: 0.70%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-06 11:53:48

End at: 2018-03-06 11:54:18

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 0.75%

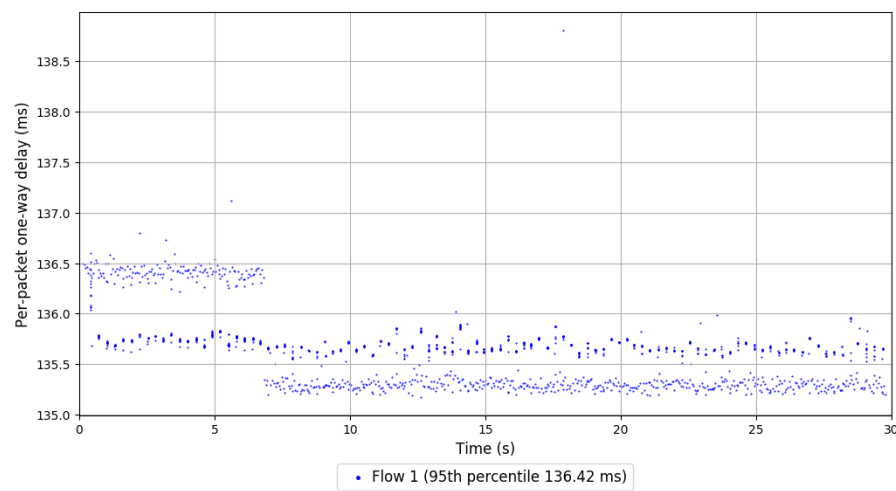
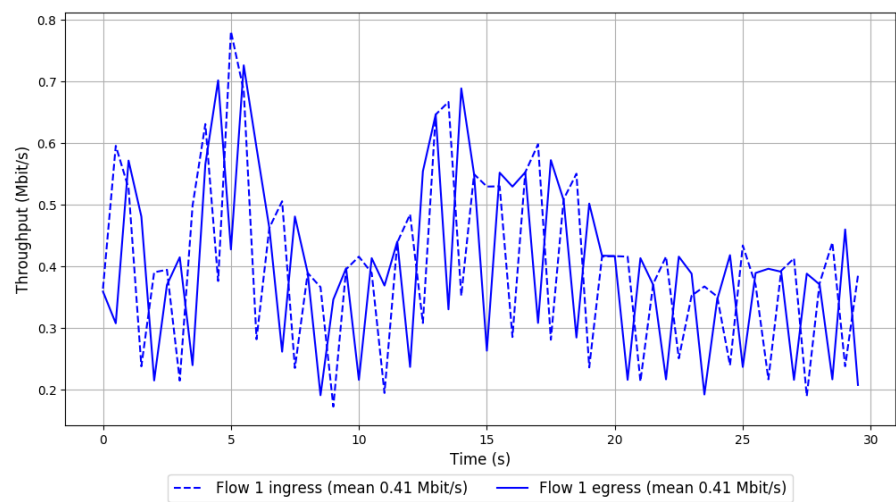
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 0.75%

Run 10: Report of Sprout — Data Link

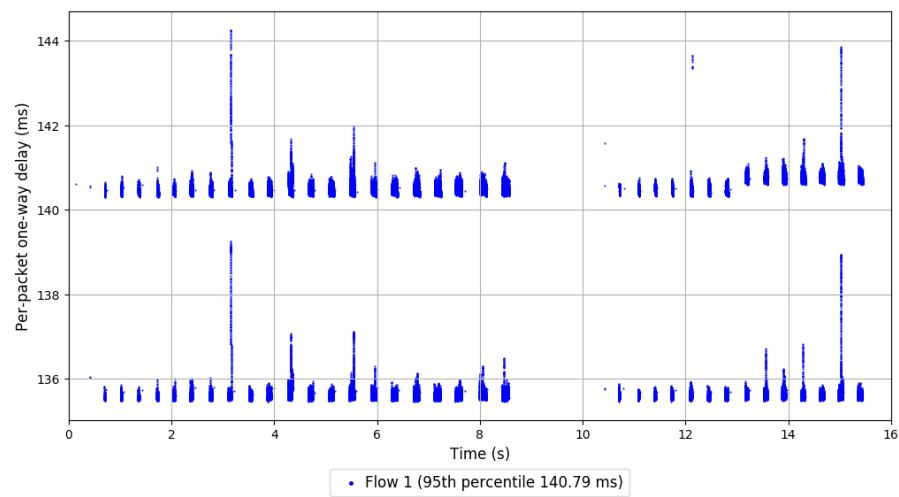
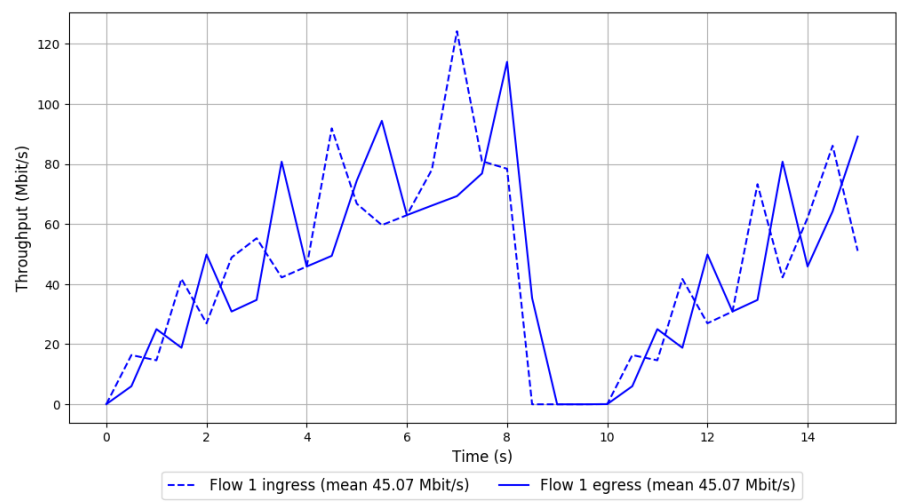


Run 1: Statistics of TaoVA-100x

Start at: 2018-03-06 09:18:22

End at: 2018-03-06 09:18:52

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

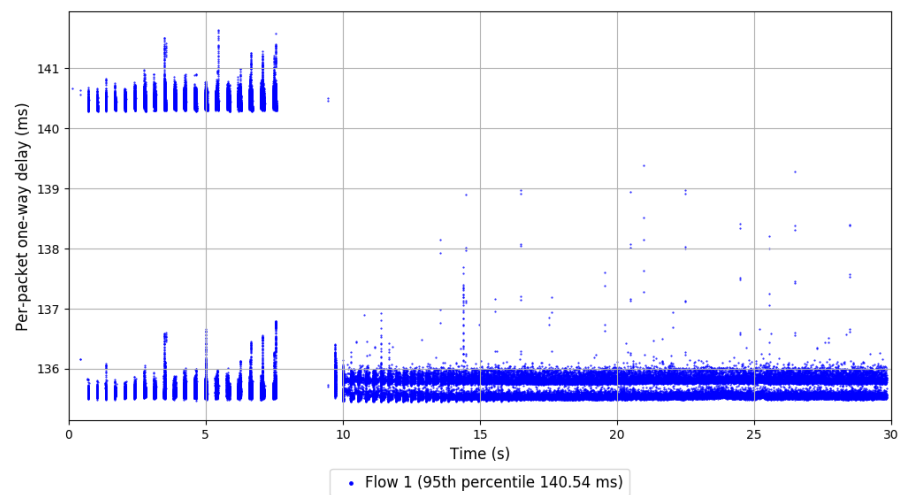
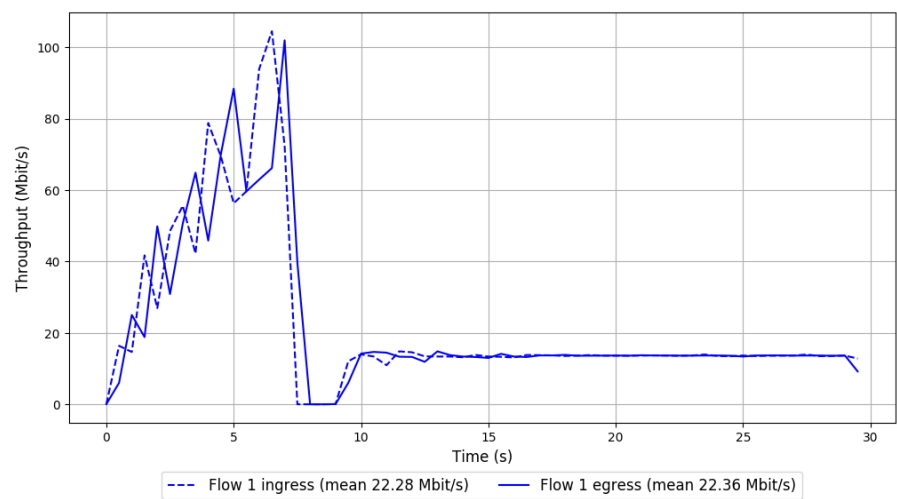


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-06 09:34:26
End at: 2018-03-06 09:34:56

# Below is generated by plot.py at 2018-03-06 15:04:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.36 Mbit/s
95th percentile per-packet one-way delay: 140.545 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 22.36 Mbit/s
95th percentile per-packet one-way delay: 140.545 ms
Loss rate: 0.54%
```

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

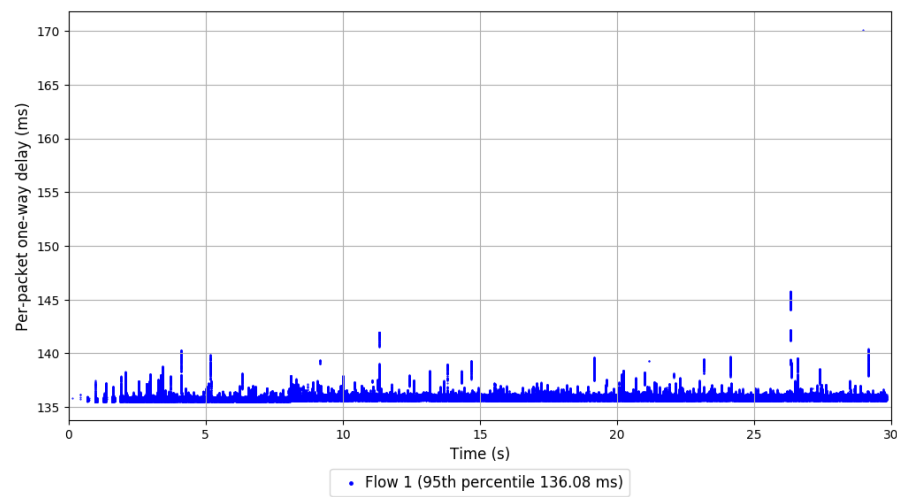
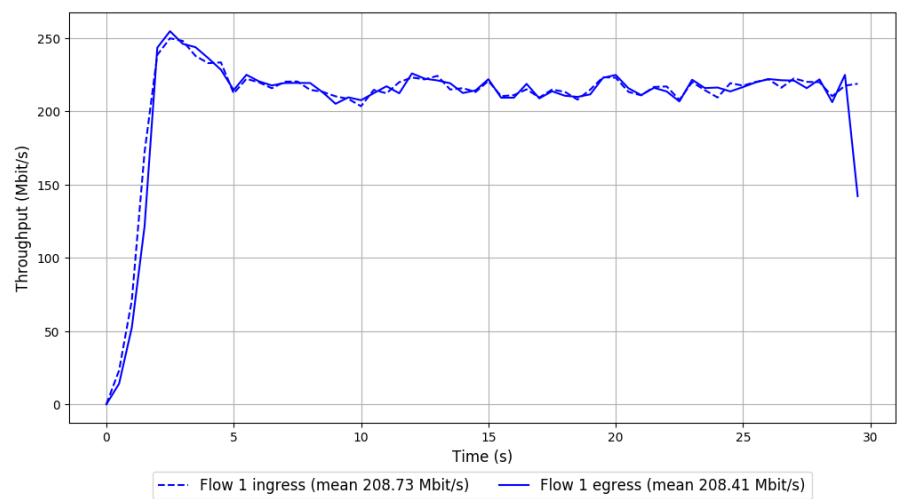


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-03-06 09:50:17
End at: 2018-03-06 09:50:47

# Below is generated by plot.py at 2018-03-06 15:04:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.41 Mbit/s
95th percentile per-packet one-way delay: 136.077 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 208.41 Mbit/s
95th percentile per-packet one-way delay: 136.077 ms
Loss rate: 1.06%
```

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

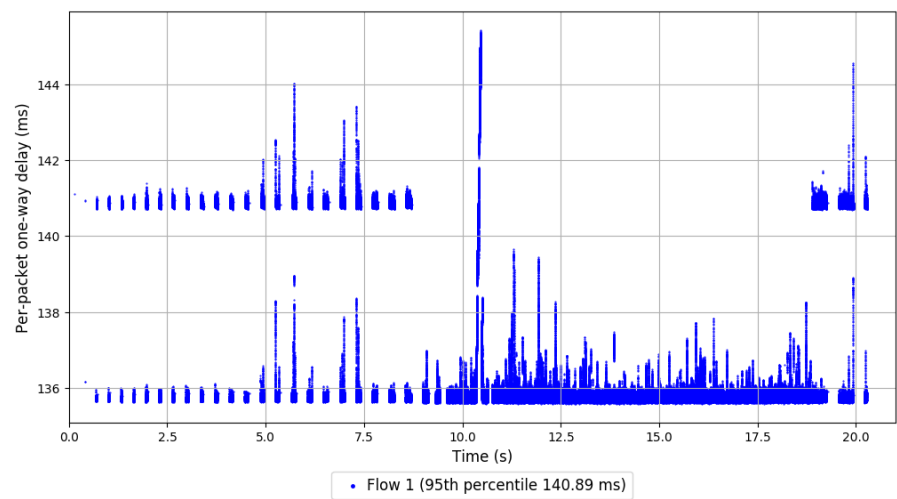
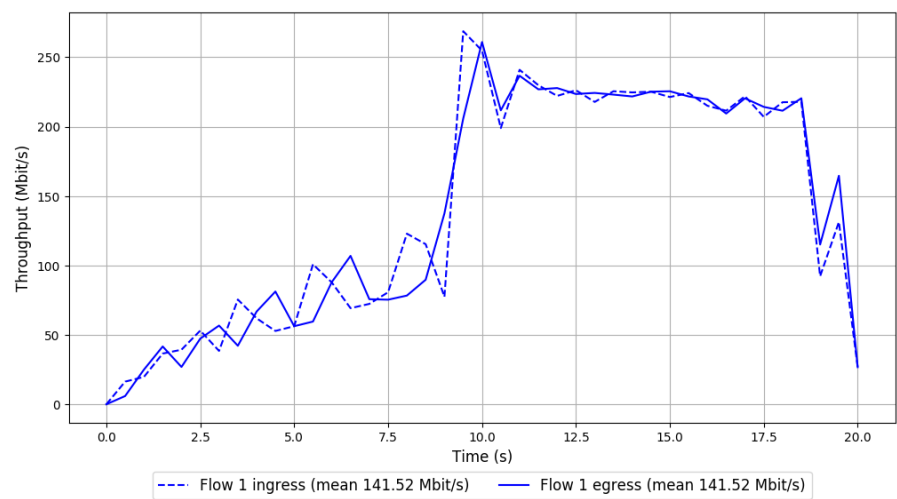


Run 4: Statistics of TaoVA-100x

Start at: 2018-03-06 10:06:36

End at: 2018-03-06 10:07:06

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-06 10:22:34

End at: 2018-03-06 10:23:04

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 135.708 ms

Loss rate: 0.94%

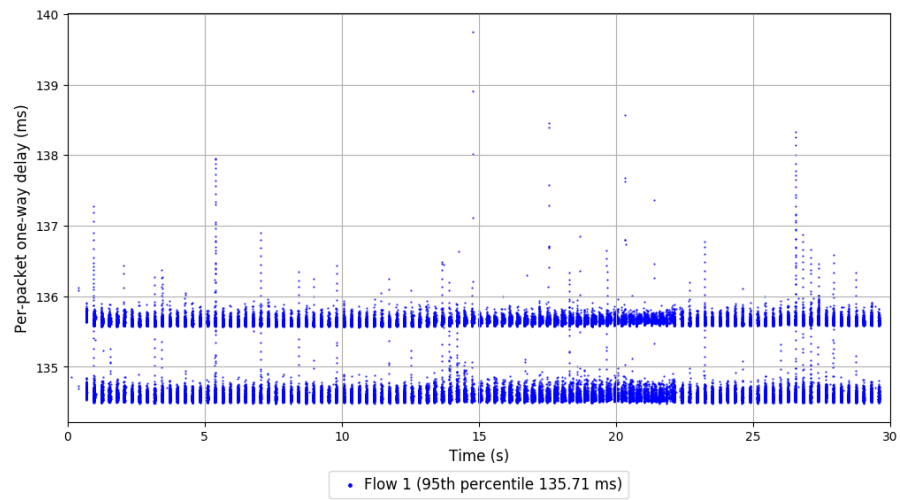
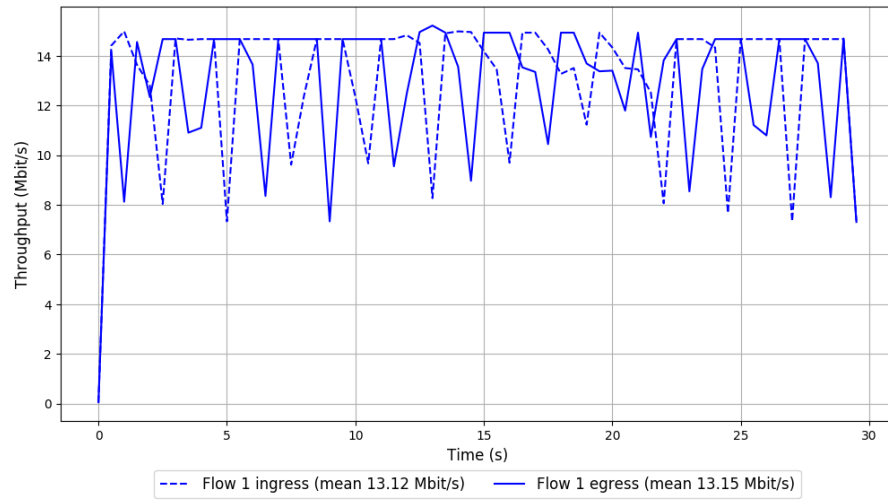
-- Flow 1:

Average throughput: 13.15 Mbit/s

95th percentile per-packet one-way delay: 135.708 ms

Loss rate: 0.94%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-06 10:38:26

End at: 2018-03-06 10:38:56

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.27 Mbit/s

95th percentile per-packet one-way delay: 136.504 ms

Loss rate: 0.90%

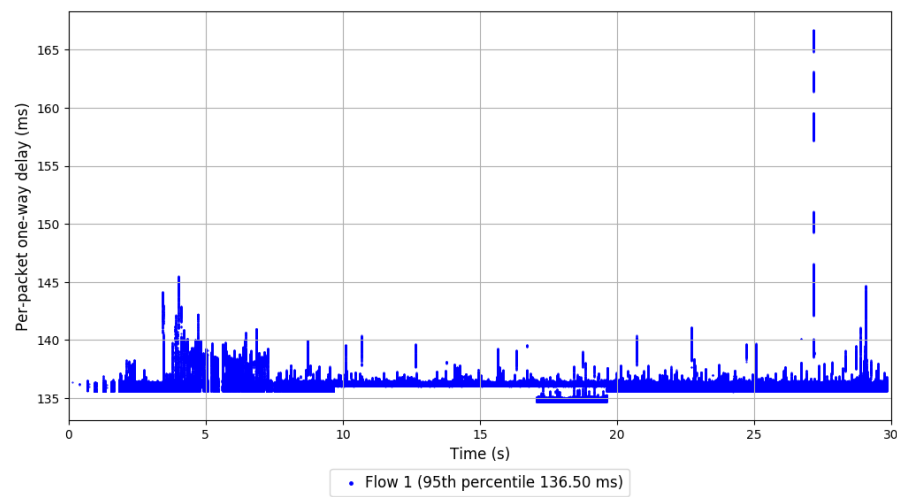
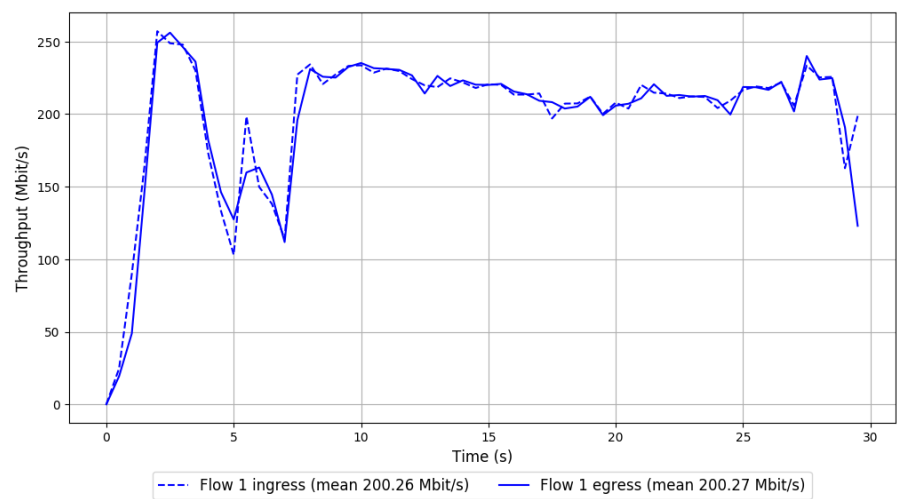
-- Flow 1:

Average throughput: 200.27 Mbit/s

95th percentile per-packet one-way delay: 136.504 ms

Loss rate: 0.90%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-06 10:54:49

End at: 2018-03-06 10:55:19

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.20 Mbit/s

95th percentile per-packet one-way delay: 136.437 ms

Loss rate: 0.95%

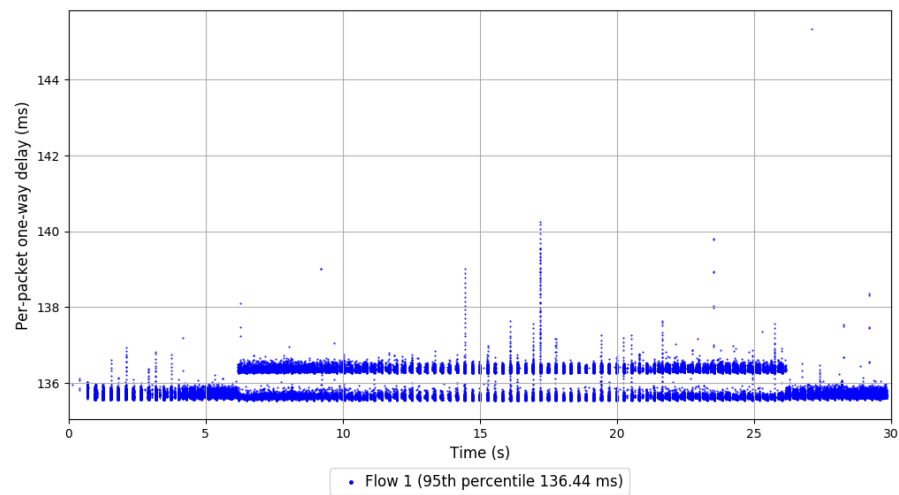
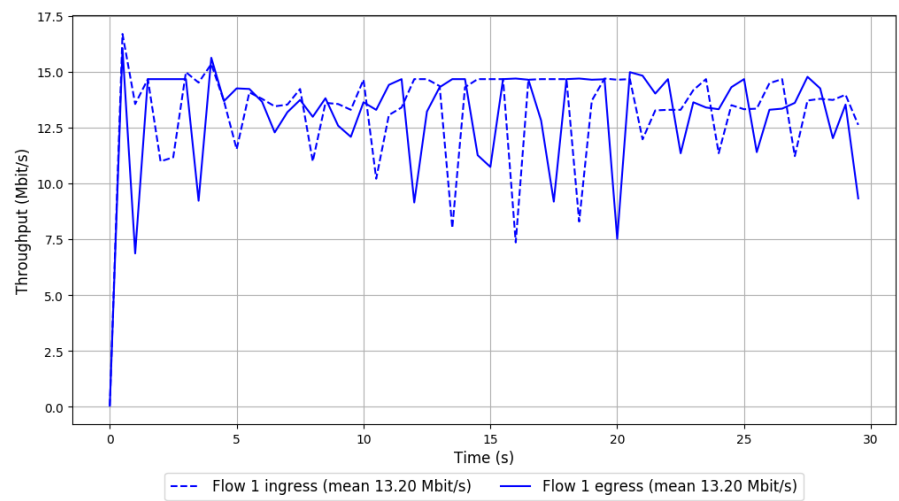
-- Flow 1:

Average throughput: 13.20 Mbit/s

95th percentile per-packet one-way delay: 136.437 ms

Loss rate: 0.95%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-06 11:10:45

End at: 2018-03-06 11:11:15

Below is generated by plot.py at 2018-03-06 15:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 136.383 ms

Loss rate: 0.91%

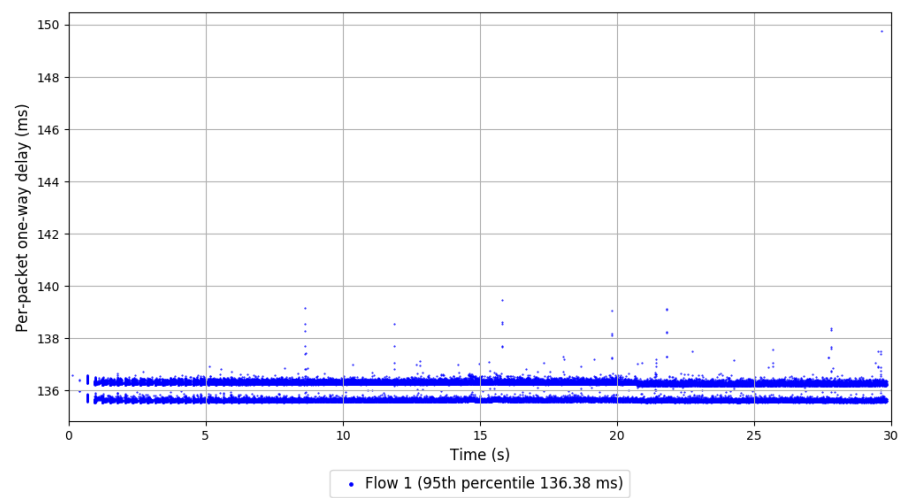
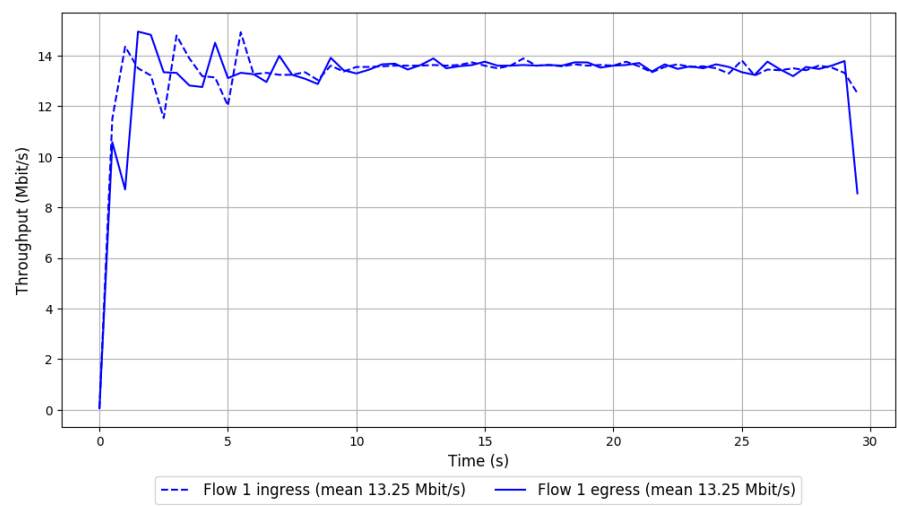
-- Flow 1:

Average throughput: 13.25 Mbit/s

95th percentile per-packet one-way delay: 136.383 ms

Loss rate: 0.91%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-06 11:26:32

End at: 2018-03-06 11:27:02

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.80 Mbit/s

95th percentile per-packet one-way delay: 135.857 ms

Loss rate: 0.95%

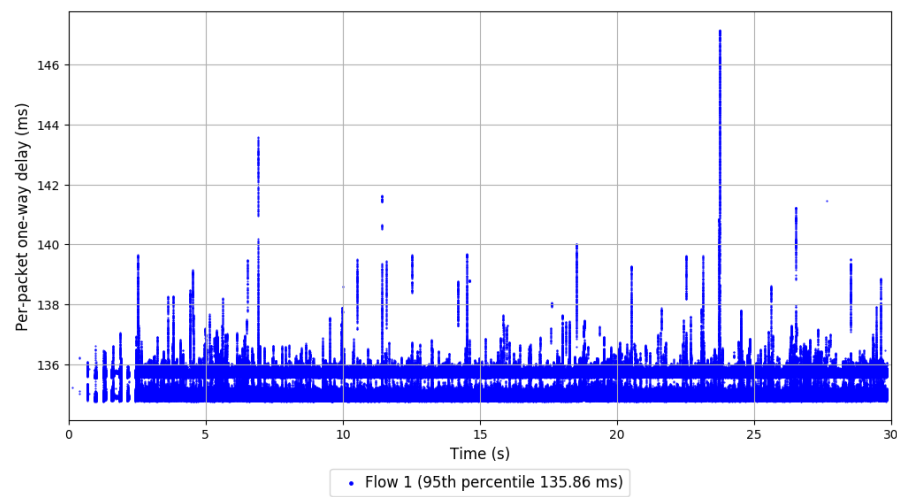
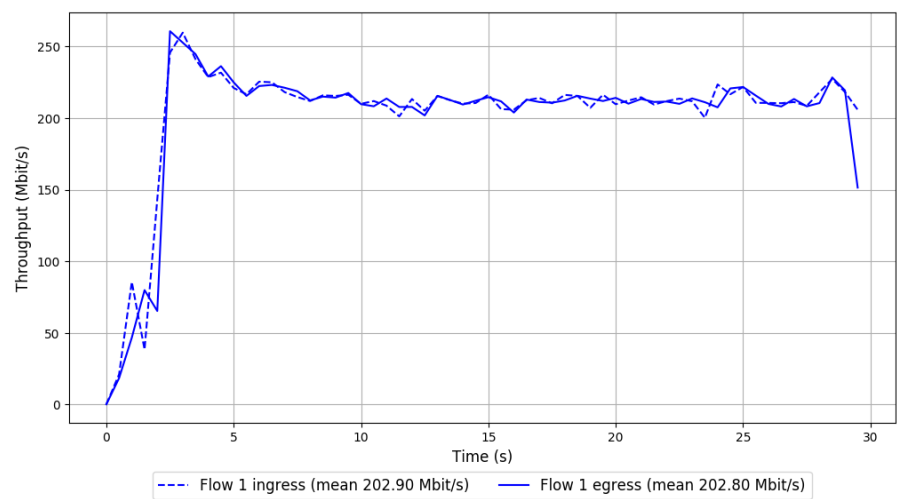
-- Flow 1:

Average throughput: 202.80 Mbit/s

95th percentile per-packet one-way delay: 135.857 ms

Loss rate: 0.95%

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

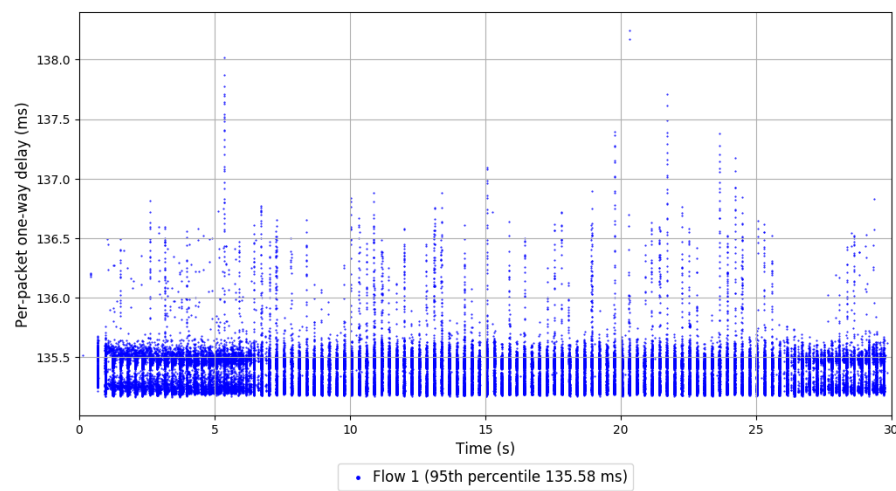
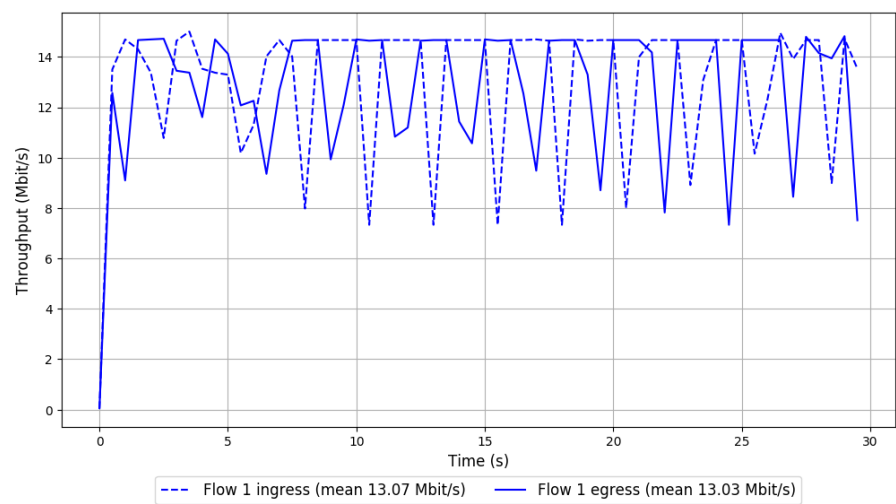


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-06 11:42:50
End at: 2018-03-06 11:43:20

# Below is generated by plot.py at 2018-03-06 15:04:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 135.576 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 13.03 Mbit/s
95th percentile per-packet one-way delay: 135.576 ms
Loss rate: 0.97%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-06 09:30:09

End at: 2018-03-06 09:30:39

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 142.514 ms

Loss rate: 0.97%

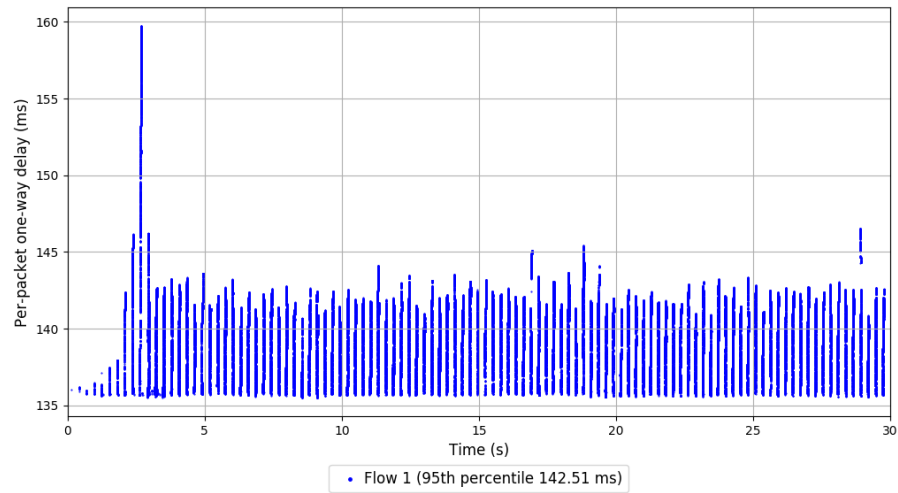
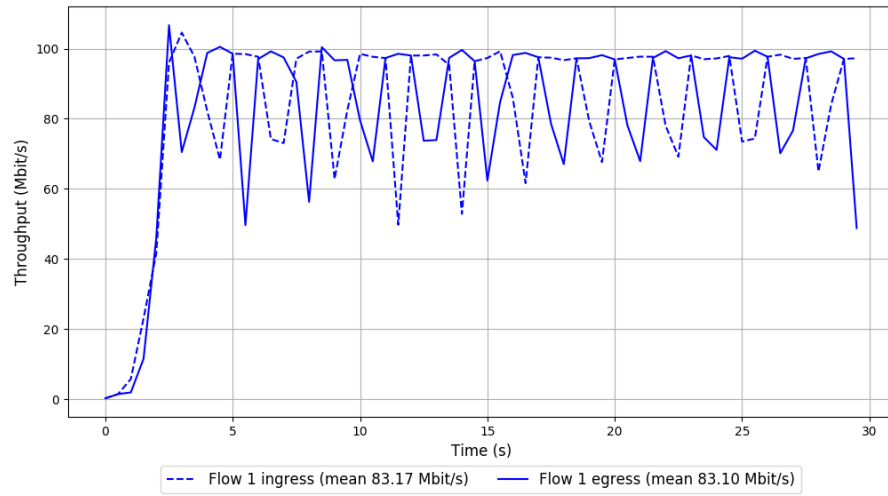
-- Flow 1:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 142.514 ms

Loss rate: 0.97%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-06 09:46:02

End at: 2018-03-06 09:46:32

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 138.665 ms

Loss rate: 0.99%

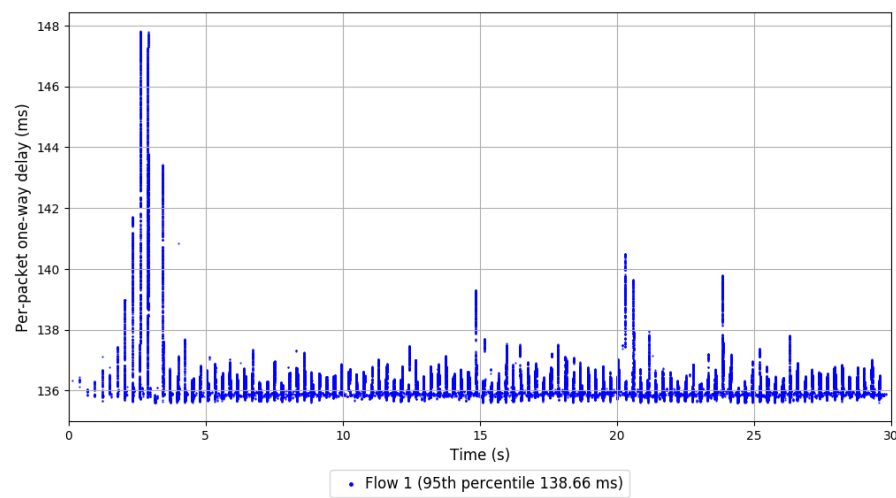
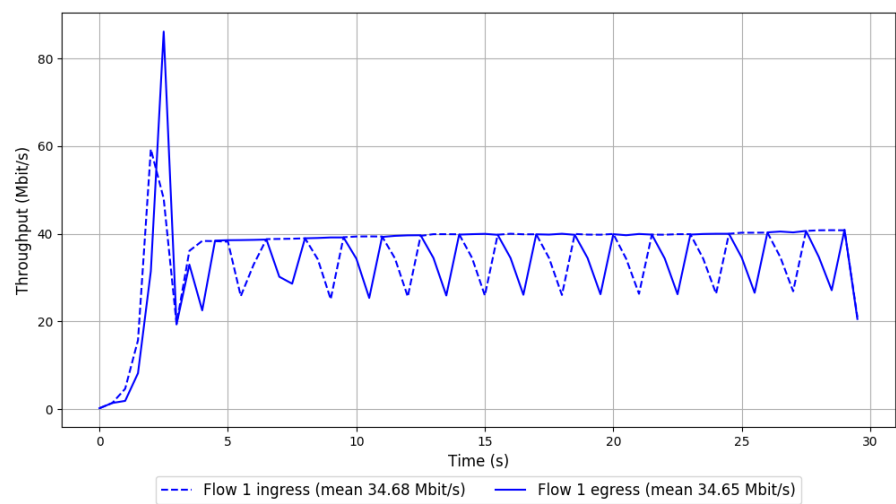
-- Flow 1:

Average throughput: 34.65 Mbit/s

95th percentile per-packet one-way delay: 138.665 ms

Loss rate: 0.99%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-06 10:02:22

End at: 2018-03-06 10:02:52

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 138.073 ms

Loss rate: 1.00%

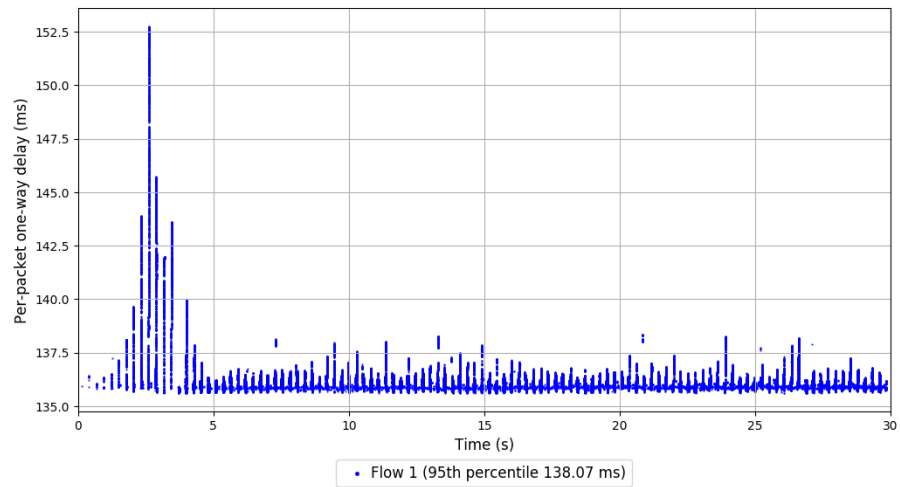
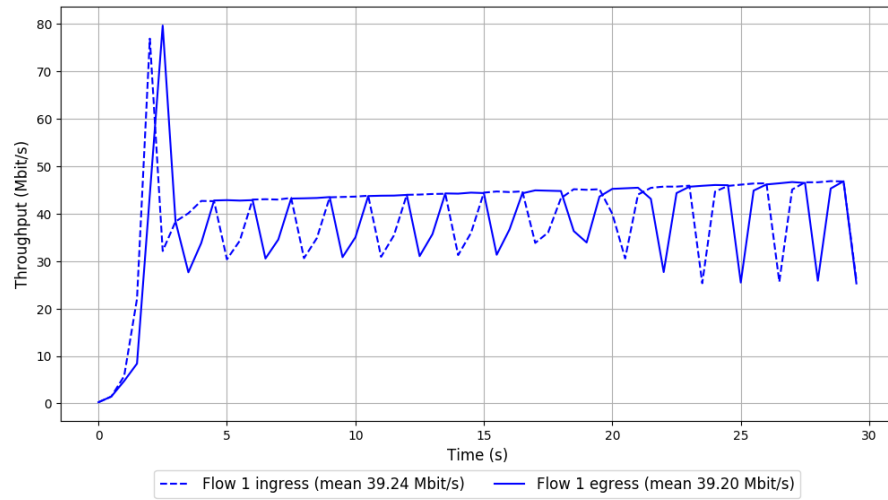
-- Flow 1:

Average throughput: 39.20 Mbit/s

95th percentile per-packet one-way delay: 138.073 ms

Loss rate: 1.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-06 10:18:18

End at: 2018-03-06 10:18:48

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 143.144 ms

Loss rate: 0.99%

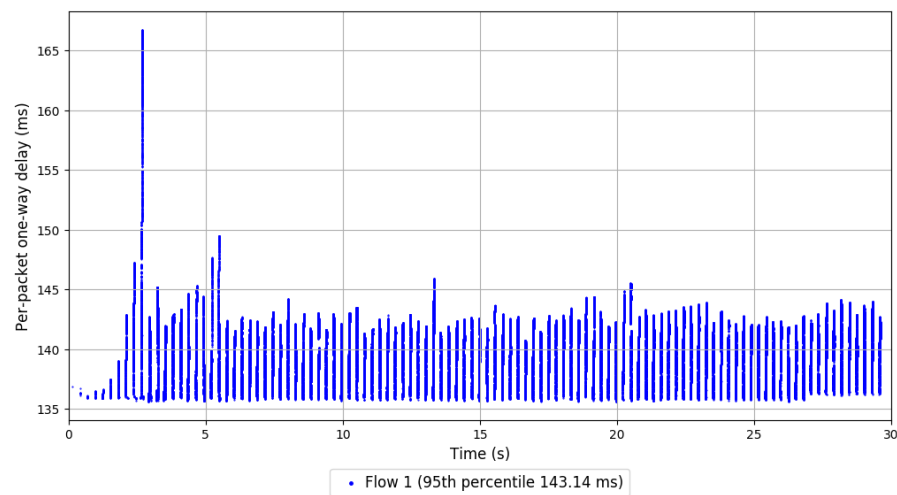
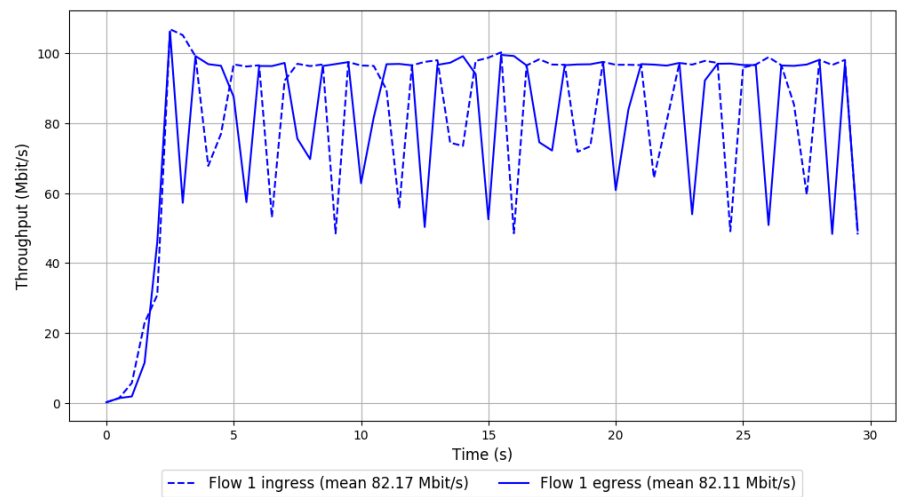
-- Flow 1:

Average throughput: 82.11 Mbit/s

95th percentile per-packet one-way delay: 143.144 ms

Loss rate: 0.99%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-06 10:34:28

End at: 2018-03-06 10:34:58

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 139.976 ms

Loss rate: 0.99%

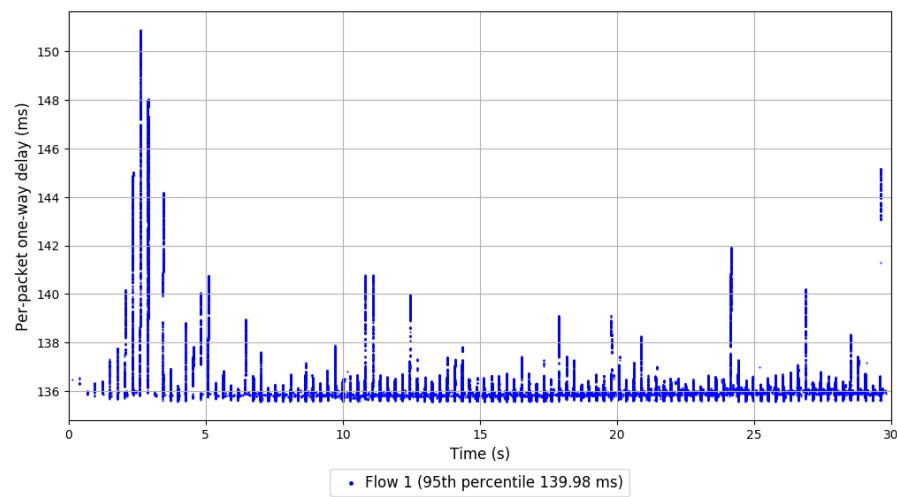
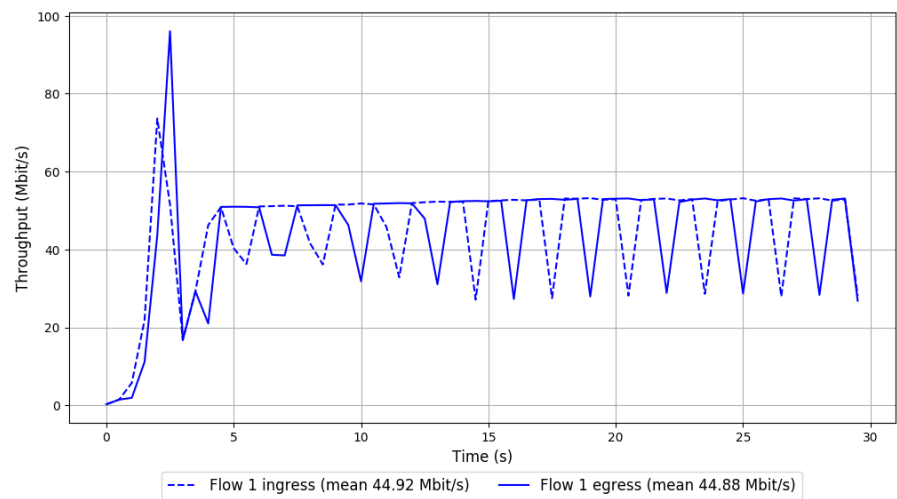
-- Flow 1:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 139.976 ms

Loss rate: 0.99%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-06 10:50:31

End at: 2018-03-06 10:51:01

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 142.504 ms

Loss rate: 0.98%

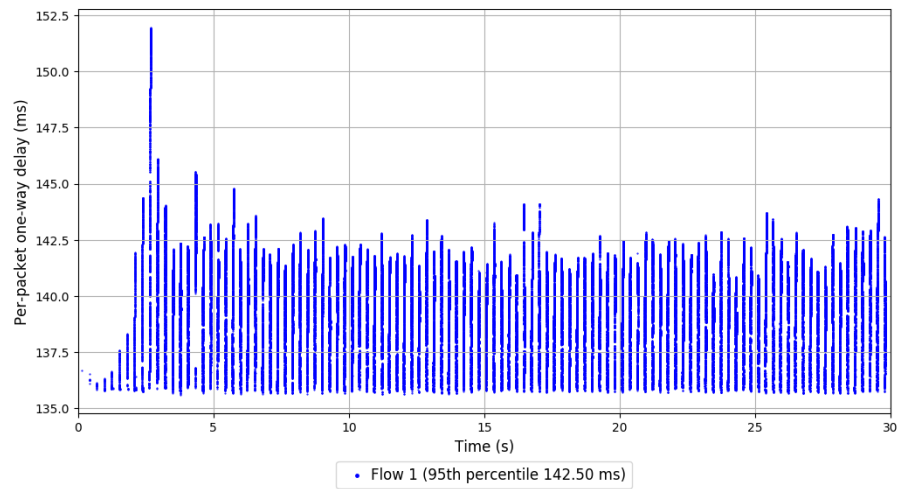
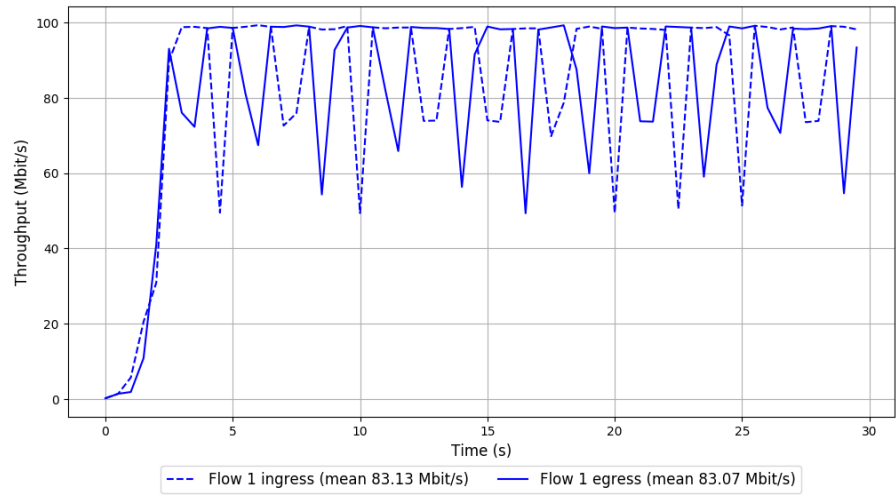
-- Flow 1:

Average throughput: 83.07 Mbit/s

95th percentile per-packet one-way delay: 142.504 ms

Loss rate: 0.98%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-06 11:06:32

End at: 2018-03-06 11:07:02

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 140.667 ms

Loss rate: 0.95%

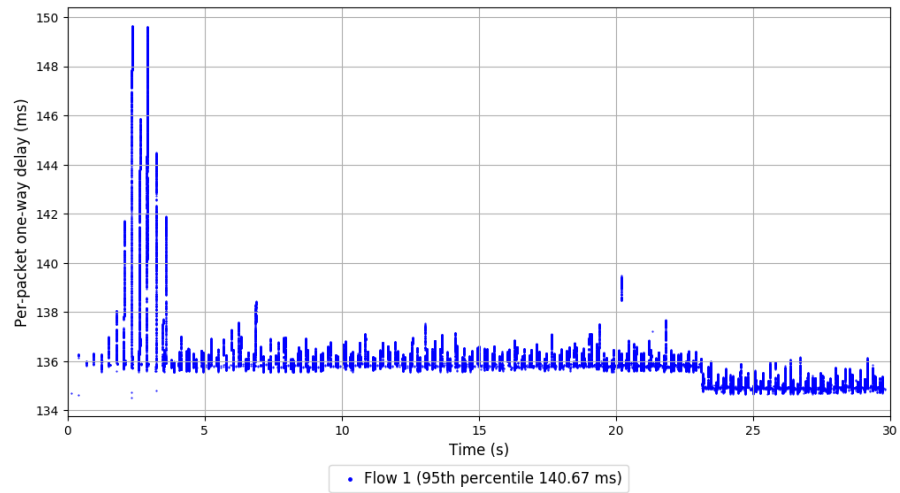
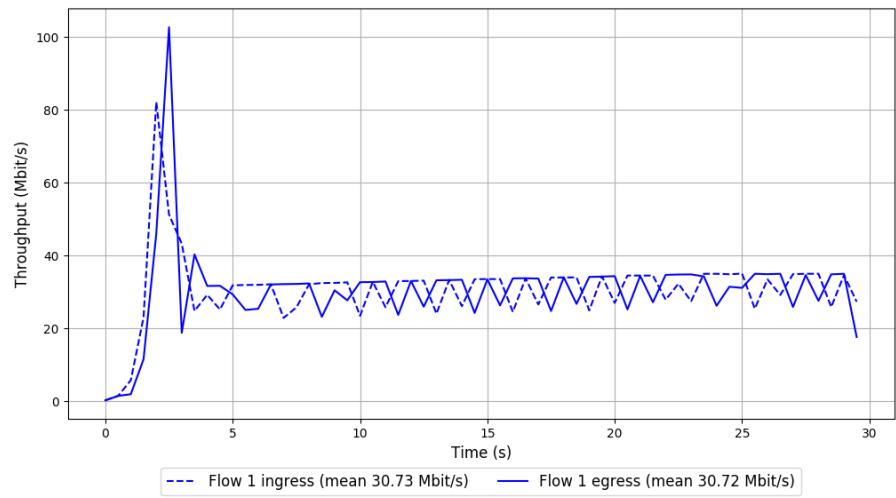
-- Flow 1:

Average throughput: 30.72 Mbit/s

95th percentile per-packet one-way delay: 140.667 ms

Loss rate: 0.95%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-06 11:22:19

End at: 2018-03-06 11:22:49

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.97 Mbit/s

95th percentile per-packet one-way delay: 146.201 ms

Loss rate: 0.98%

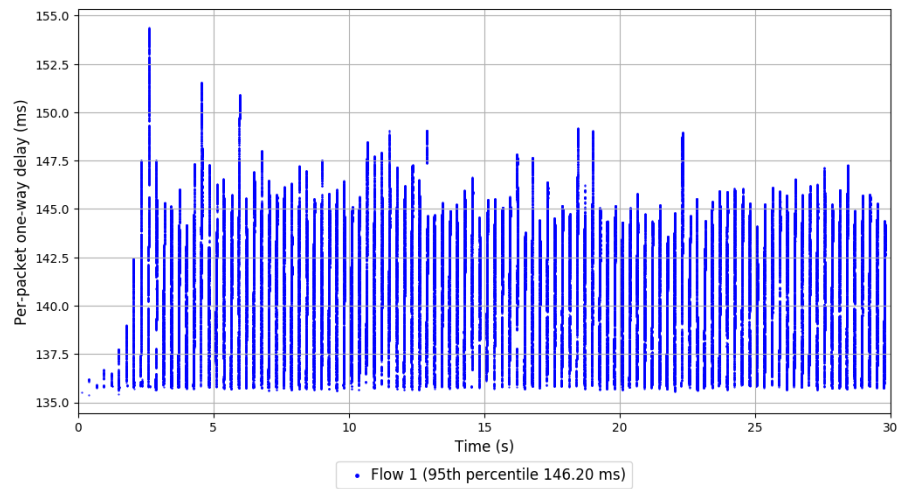
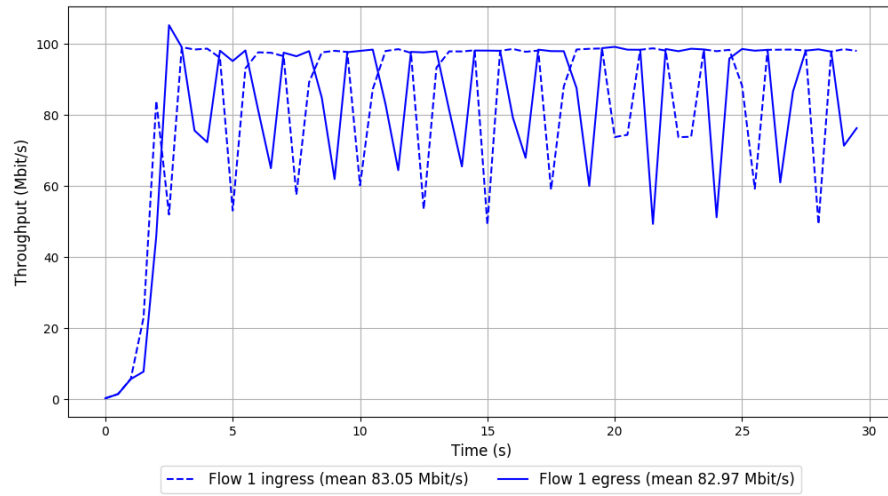
-- Flow 1:

Average throughput: 82.97 Mbit/s

95th percentile per-packet one-way delay: 146.201 ms

Loss rate: 0.98%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-06 11:38:33

End at: 2018-03-06 11:39:03

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.94 Mbit/s

95th percentile per-packet one-way delay: 144.567 ms

Loss rate: 0.99%

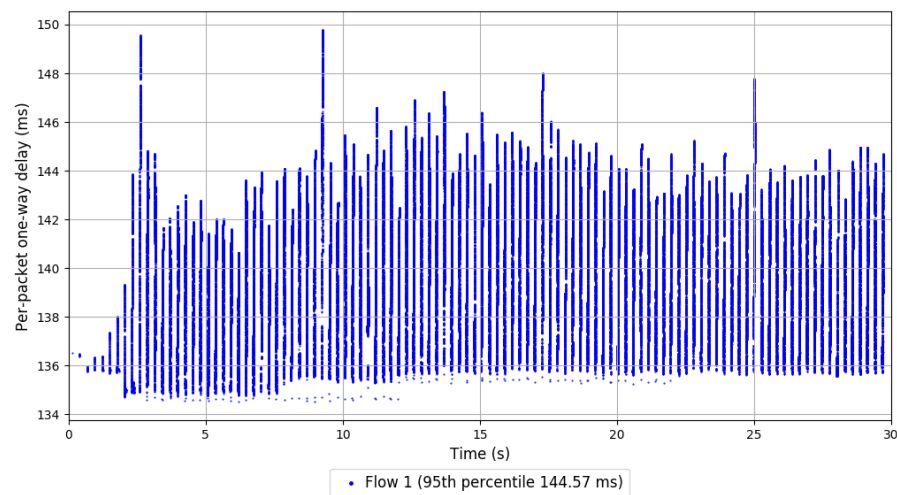
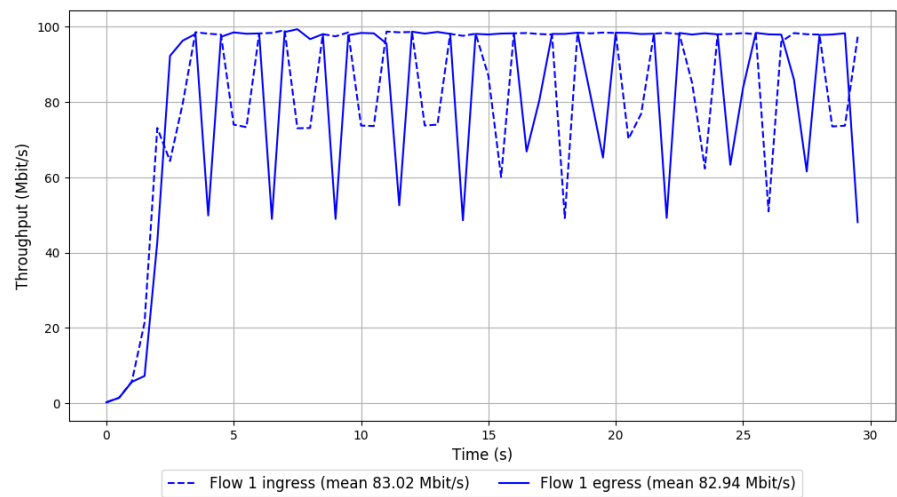
-- Flow 1:

Average throughput: 82.94 Mbit/s

95th percentile per-packet one-way delay: 144.567 ms

Loss rate: 0.99%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-06 11:54:30

End at: 2018-03-06 11:55:01

Below is generated by plot.py at 2018-03-06 15:04:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 138.261 ms

Loss rate: 0.97%

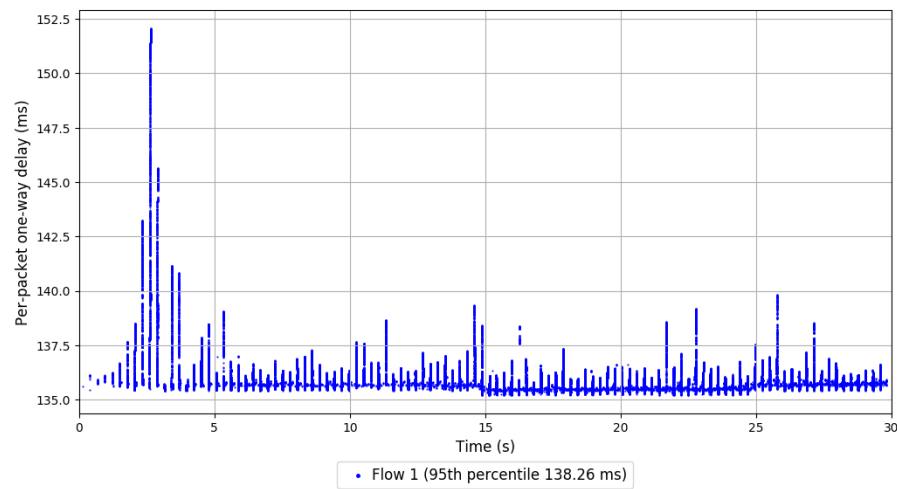
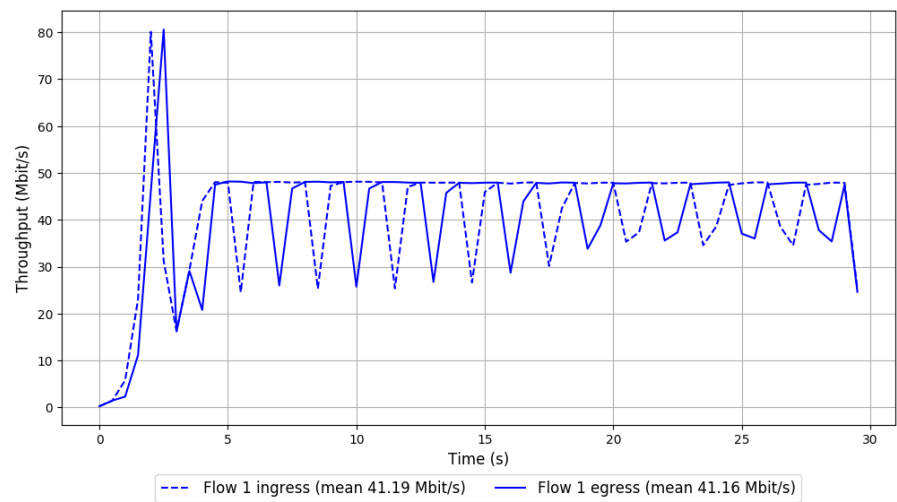
-- Flow 1:

Average throughput: 41.16 Mbit/s

95th percentile per-packet one-way delay: 138.261 ms

Loss rate: 0.97%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-06 09:27:40

End at: 2018-03-06 09:28:10

Below is generated by plot.py at 2018-03-06 15:07:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.29 Mbit/s

95th percentile per-packet one-way delay: 245.008 ms

Loss rate: 3.06%

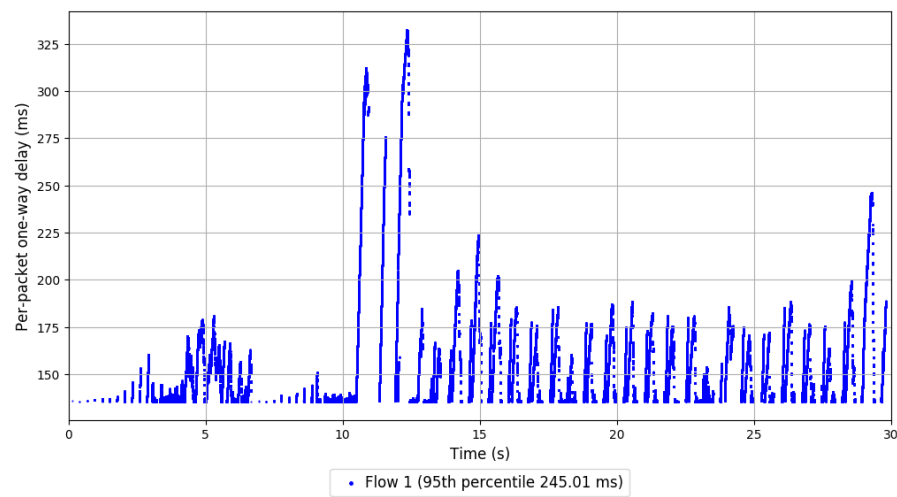
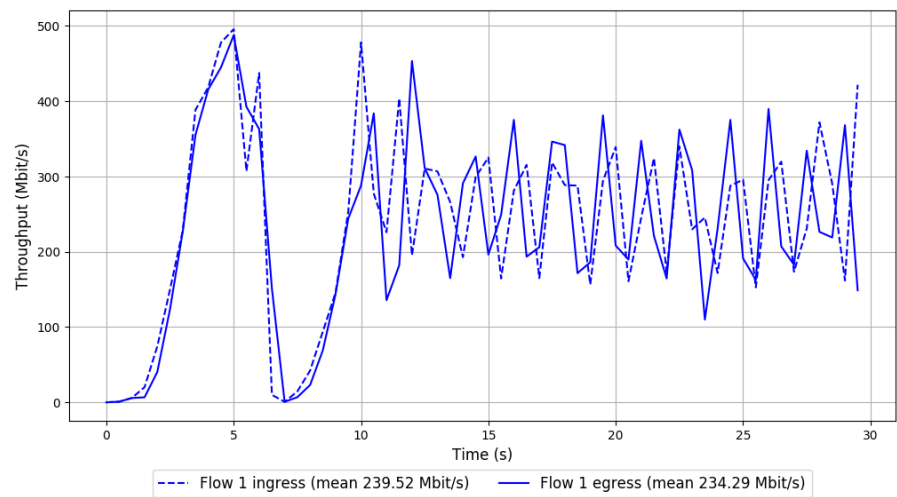
-- Flow 1:

Average throughput: 234.29 Mbit/s

95th percentile per-packet one-way delay: 245.008 ms

Loss rate: 3.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-06 09:43:39

End at: 2018-03-06 09:44:09

Below is generated by plot.py at 2018-03-06 15:07:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.80 Mbit/s

95th percentile per-packet one-way delay: 185.065 ms

Loss rate: 1.51%

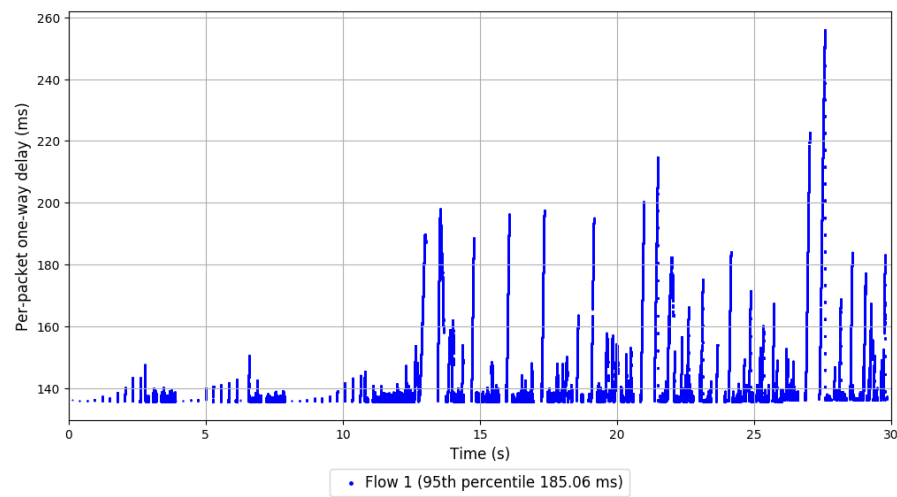
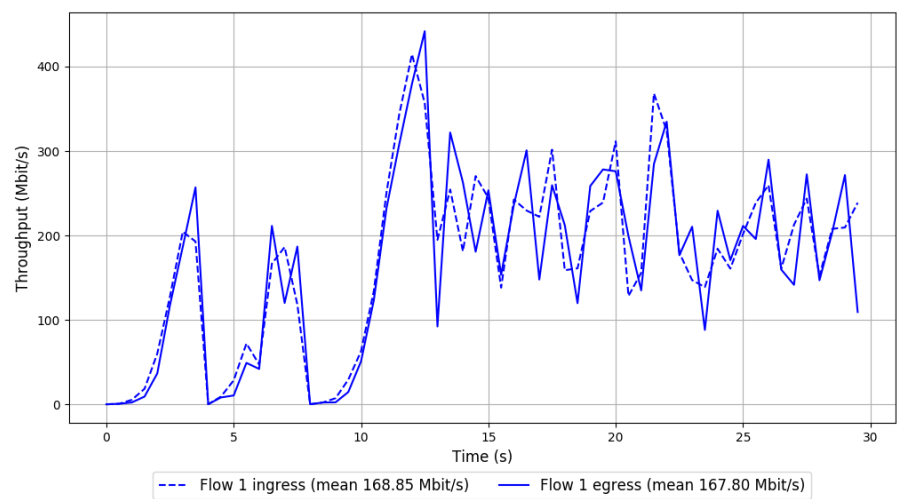
-- Flow 1:

Average throughput: 167.80 Mbit/s

95th percentile per-packet one-way delay: 185.065 ms

Loss rate: 1.51%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-06 09:59:56

End at: 2018-03-06 10:00:26

Below is generated by plot.py at 2018-03-06 15:07:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.68 Mbit/s

95th percentile per-packet one-way delay: 246.290 ms

Loss rate: 1.96%

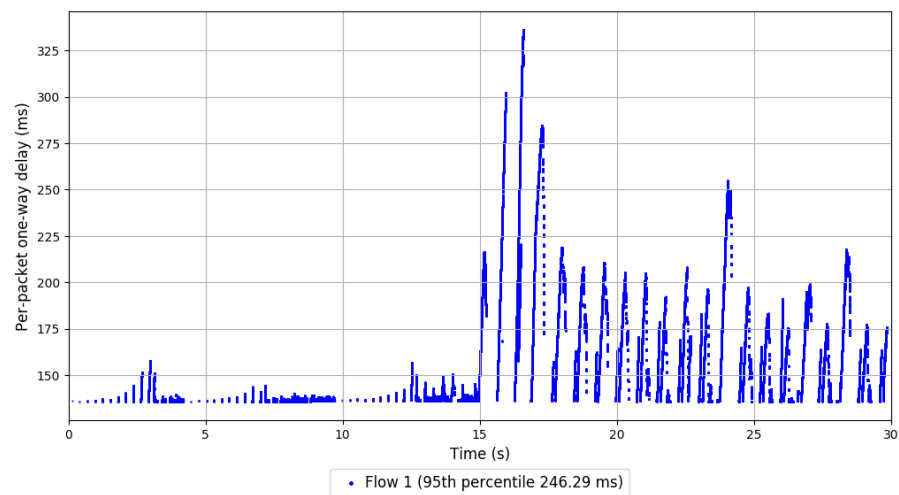
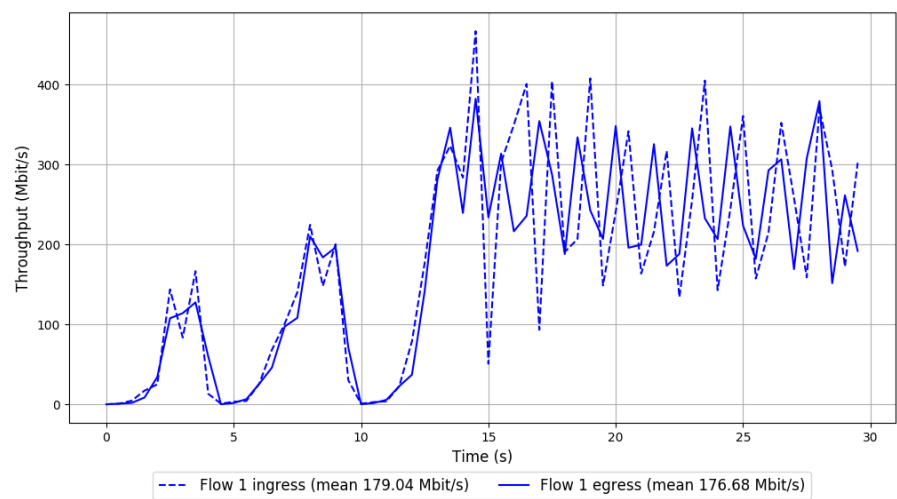
-- Flow 1:

Average throughput: 176.68 Mbit/s

95th percentile per-packet one-way delay: 246.290 ms

Loss rate: 1.96%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-06 10:15:57

End at: 2018-03-06 10:16:27

Below is generated by plot.py at 2018-03-06 15:07:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.07 Mbit/s

95th percentile per-packet one-way delay: 196.970 ms

Loss rate: 0.66%

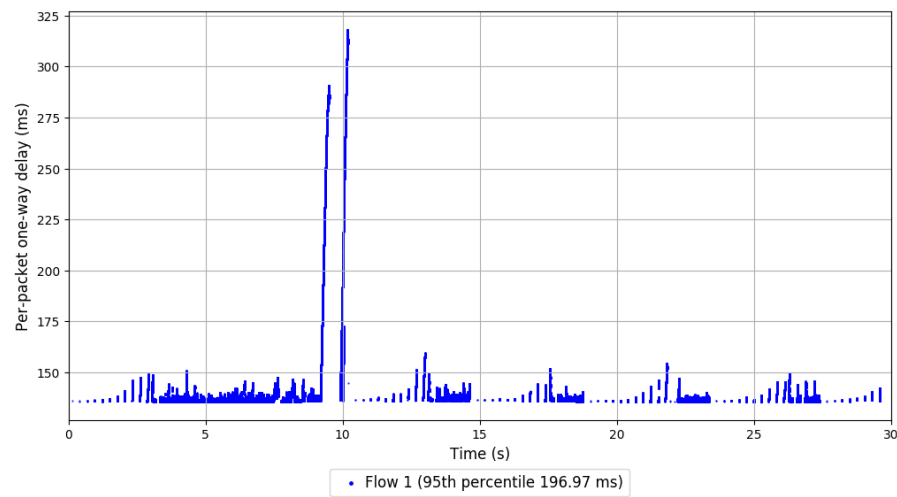
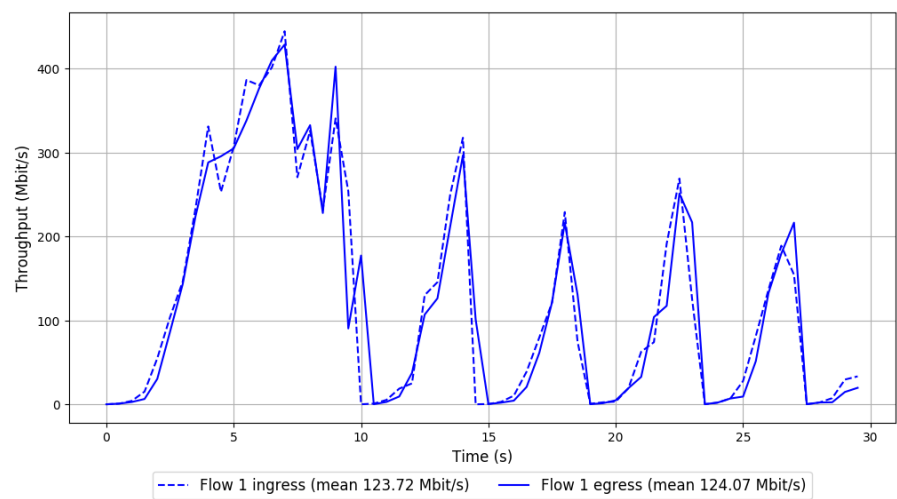
-- Flow 1:

Average throughput: 124.07 Mbit/s

95th percentile per-packet one-way delay: 196.970 ms

Loss rate: 0.66%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-06 10:32:02

End at: 2018-03-06 10:32:32

Below is generated by plot.py at 2018-03-06 15:07:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.42 Mbit/s

95th percentile per-packet one-way delay: 176.242 ms

Loss rate: 1.90%

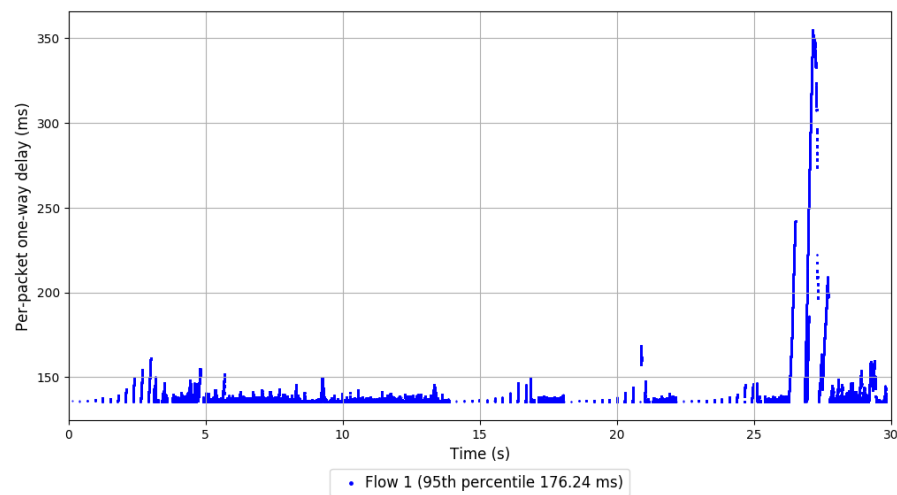
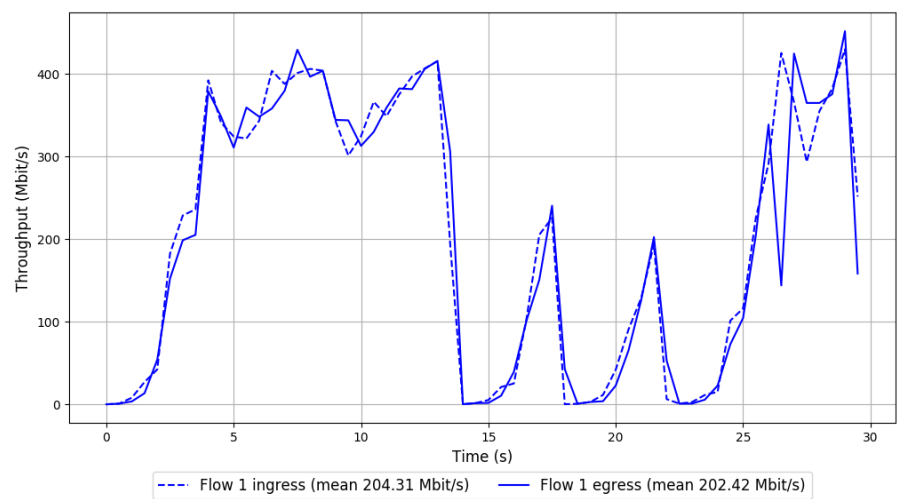
-- Flow 1:

Average throughput: 202.42 Mbit/s

95th percentile per-packet one-way delay: 176.242 ms

Loss rate: 1.90%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-06 10:48:06

End at: 2018-03-06 10:48:36

Below is generated by plot.py at 2018-03-06 15:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.46 Mbit/s

95th percentile per-packet one-way delay: 190.111 ms

Loss rate: 0.34%

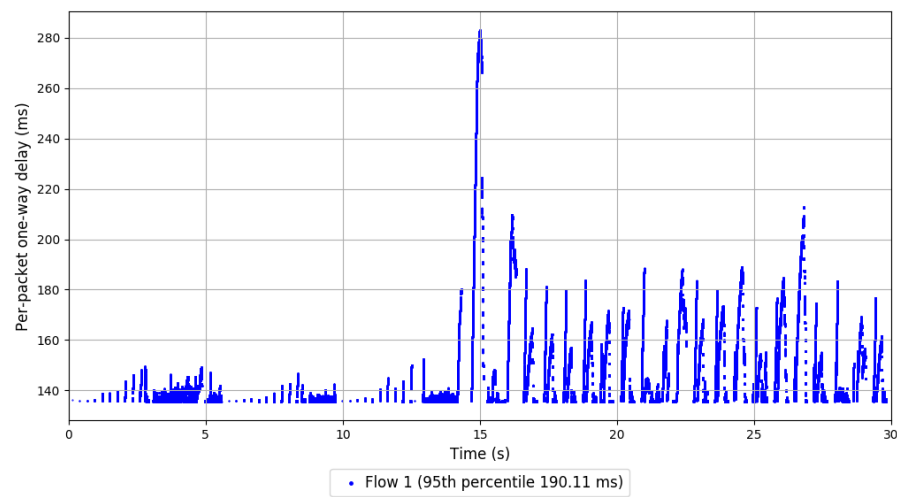
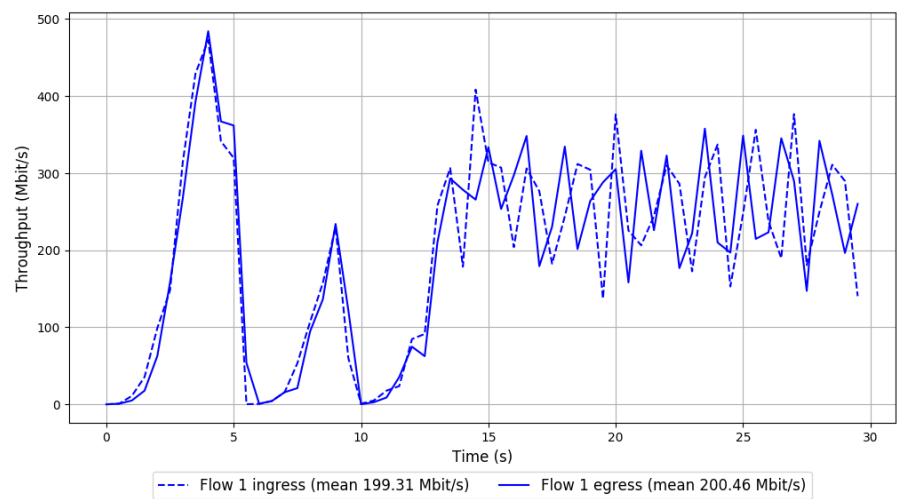
-- Flow 1:

Average throughput: 200.46 Mbit/s

95th percentile per-packet one-way delay: 190.111 ms

Loss rate: 0.34%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-06 11:04:14

End at: 2018-03-06 11:04:44

Below is generated by plot.py at 2018-03-06 15:07:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 161.024 ms

Loss rate: 0.14%

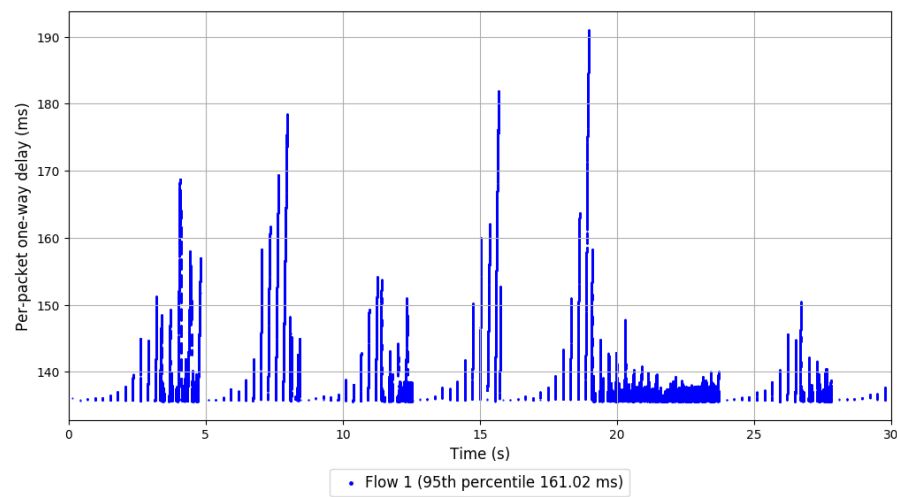
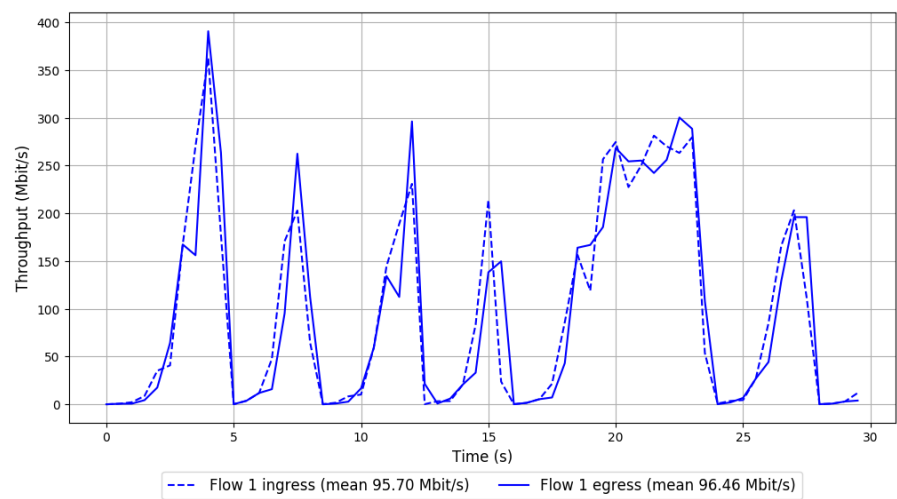
-- Flow 1:

Average throughput: 96.46 Mbit/s

95th percentile per-packet one-way delay: 161.024 ms

Loss rate: 0.14%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-06 11:19:56

End at: 2018-03-06 11:20:26

Below is generated by plot.py at 2018-03-06 15:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.57 Mbit/s

95th percentile per-packet one-way delay: 160.747 ms

Loss rate: 0.93%

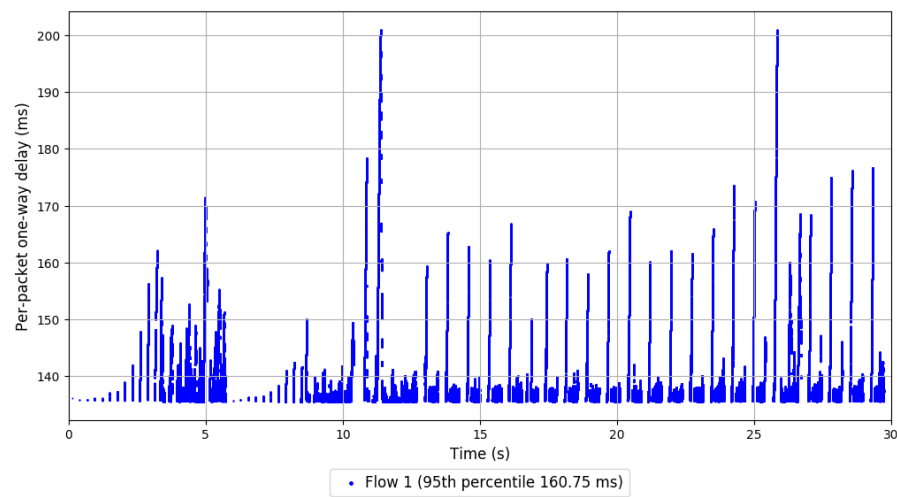
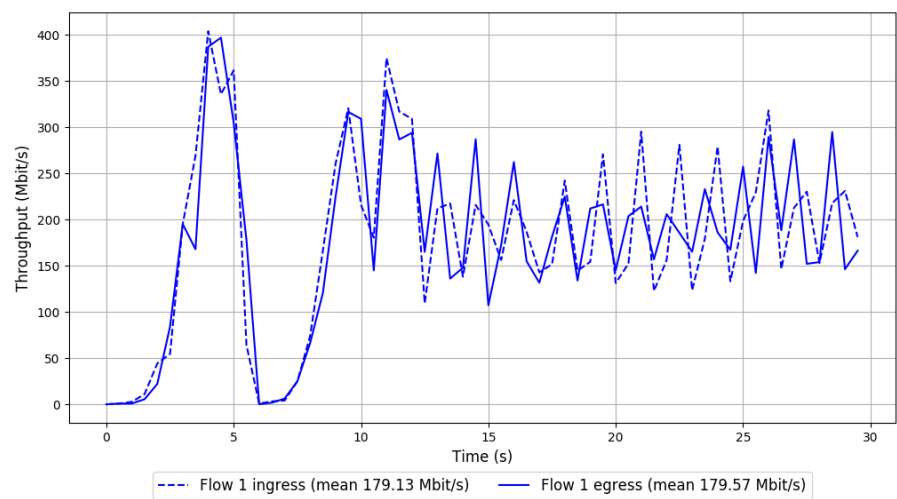
-- Flow 1:

Average throughput: 179.57 Mbit/s

95th percentile per-packet one-way delay: 160.747 ms

Loss rate: 0.93%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-06 11:36:15

End at: 2018-03-06 11:36:45

Below is generated by plot.py at 2018-03-06 15:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 157.348 ms

Loss rate: 3.53%

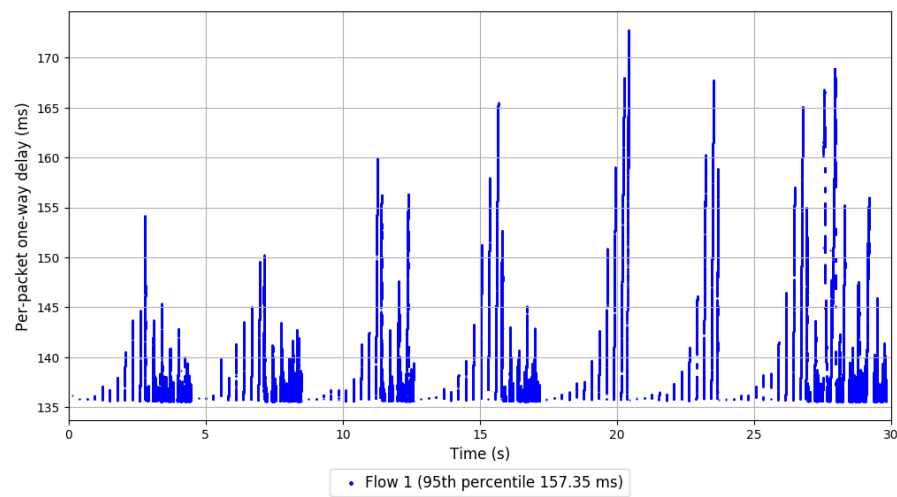
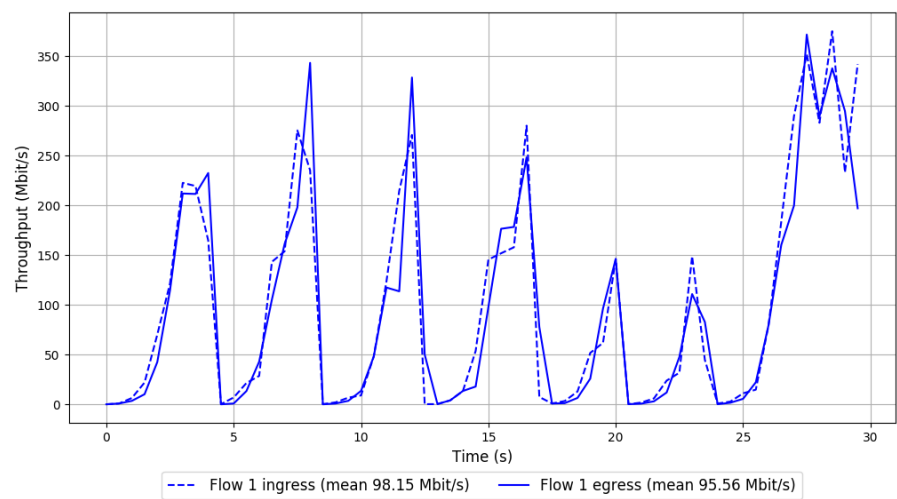
-- Flow 1:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 157.348 ms

Loss rate: 3.53%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-06 11:52:12

End at: 2018-03-06 11:52:42

Below is generated by plot.py at 2018-03-06 15:07:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 326.187 ms

Loss rate: 5.71%

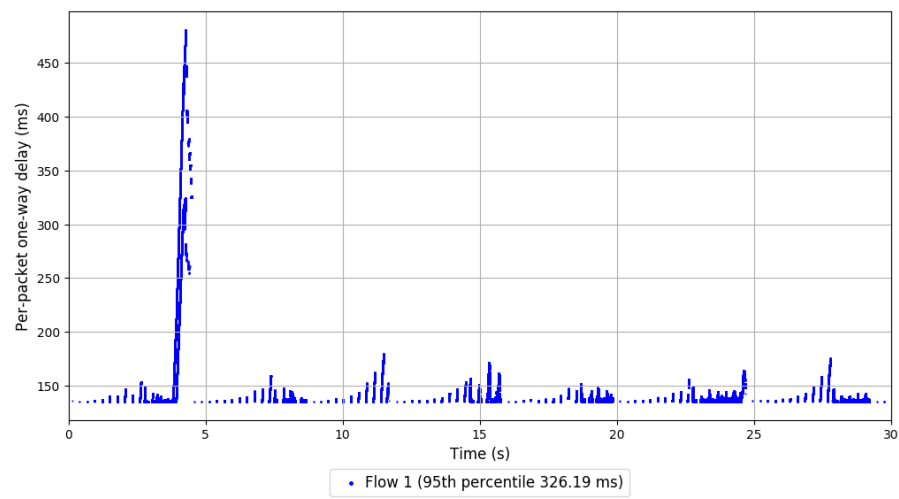
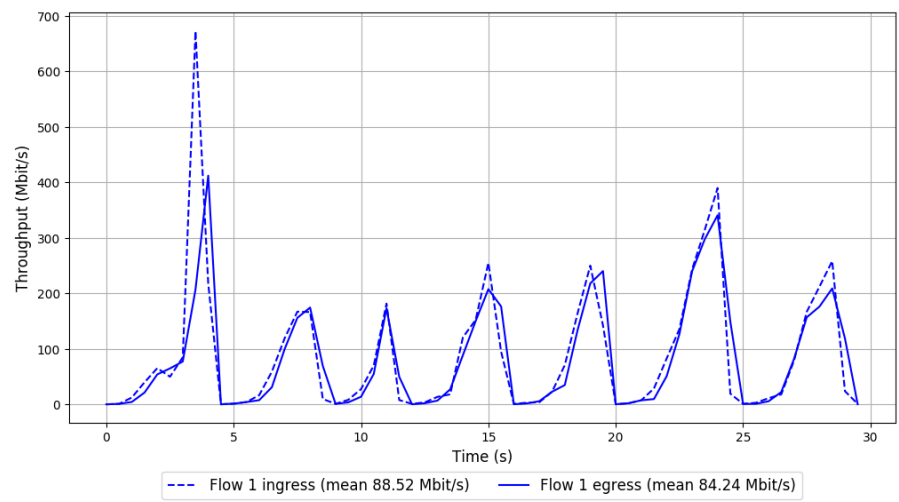
-- Flow 1:

Average throughput: 84.24 Mbit/s

95th percentile per-packet one-way delay: 326.187 ms

Loss rate: 5.71%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-06 09:16:49

End at: 2018-03-06 09:17:19

Below is generated by plot.py at 2018-03-06 15:08:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 136.680 ms

Loss rate: 1.10%

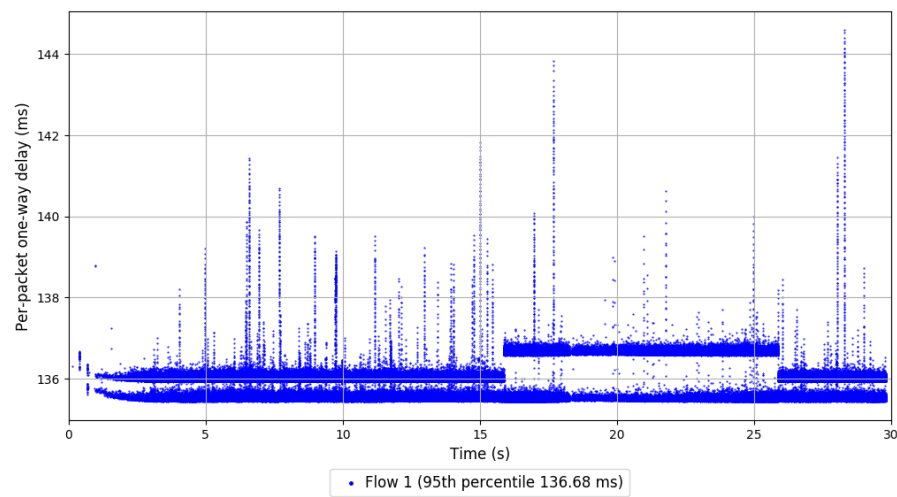
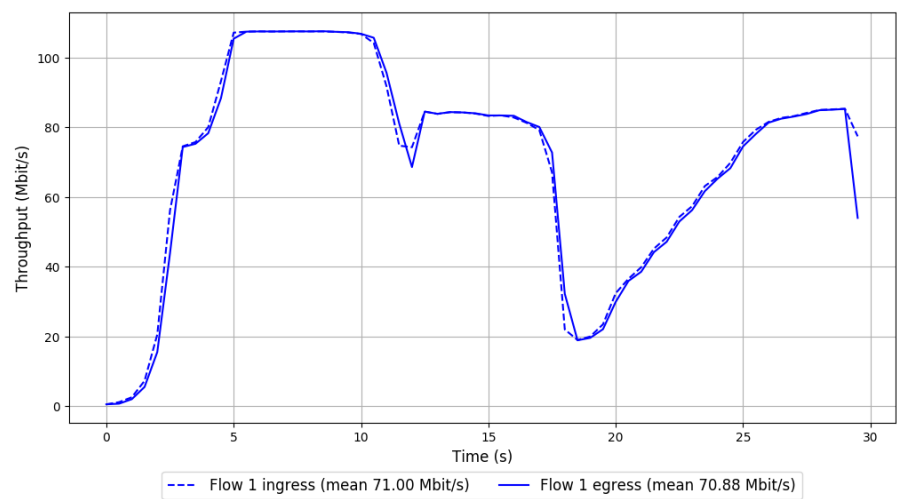
-- Flow 1:

Average throughput: 70.88 Mbit/s

95th percentile per-packet one-way delay: 136.680 ms

Loss rate: 1.10%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-06 09:32:53

End at: 2018-03-06 09:33:23

Below is generated by plot.py at 2018-03-06 15:08:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.91 Mbit/s

95th percentile per-packet one-way delay: 136.265 ms

Loss rate: 1.07%

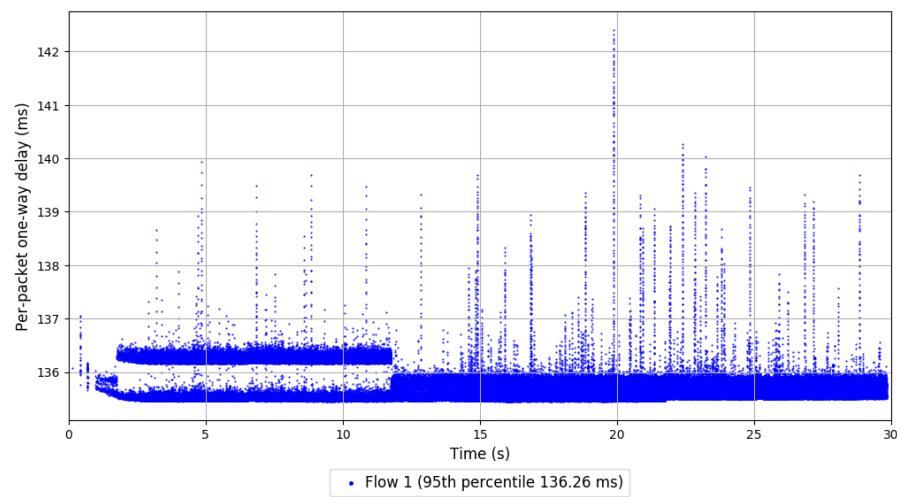
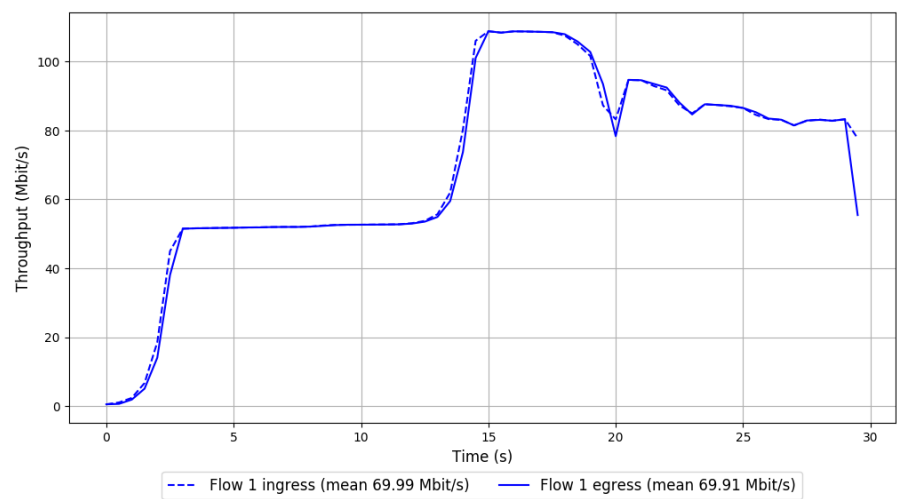
-- Flow 1:

Average throughput: 69.91 Mbit/s

95th percentile per-packet one-way delay: 136.265 ms

Loss rate: 1.07%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-06 09:48:44

End at: 2018-03-06 09:49:14

Below is generated by plot.py at 2018-03-06 15:09:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.23 Mbit/s

95th percentile per-packet one-way delay: 135.734 ms

Loss rate: 0.98%

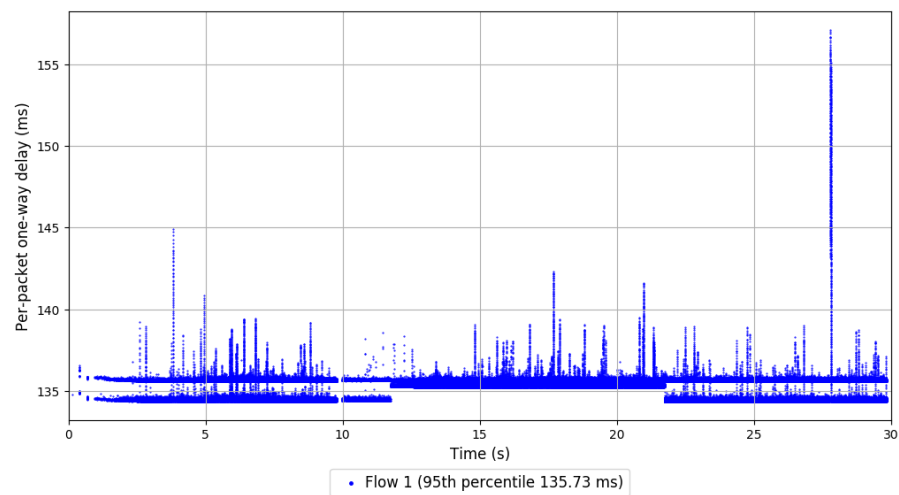
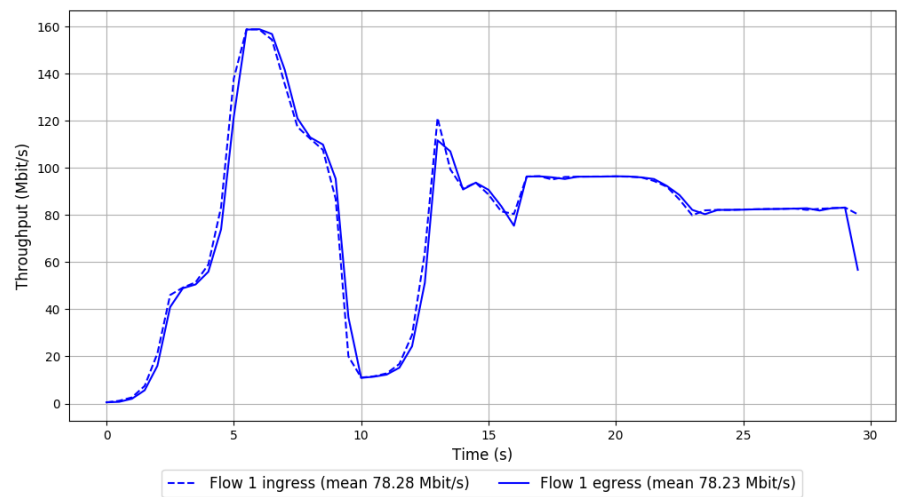
-- Flow 1:

Average throughput: 78.23 Mbit/s

95th percentile per-packet one-way delay: 135.734 ms

Loss rate: 0.98%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-06 10:05:06

End at: 2018-03-06 10:05:36

Below is generated by plot.py at 2018-03-06 15:09:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.77 Mbit/s

95th percentile per-packet one-way delay: 140.520 ms

Loss rate: 1.55%

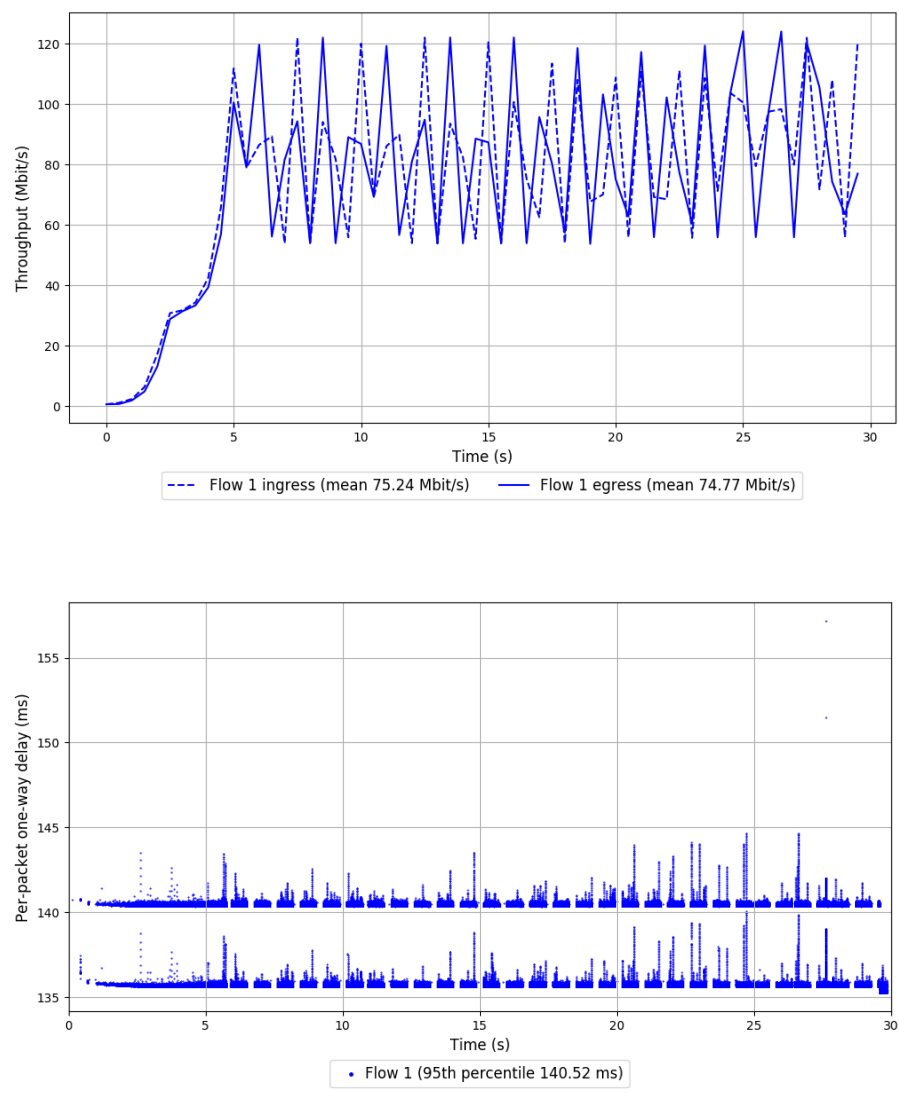
-- Flow 1:

Average throughput: 74.77 Mbit/s

95th percentile per-packet one-way delay: 140.520 ms

Loss rate: 1.55%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-06 10:21:01

End at: 2018-03-06 10:21:31

Below is generated by plot.py at 2018-03-06 15:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.36 Mbit/s

95th percentile per-packet one-way delay: 140.427 ms

Loss rate: 1.07%

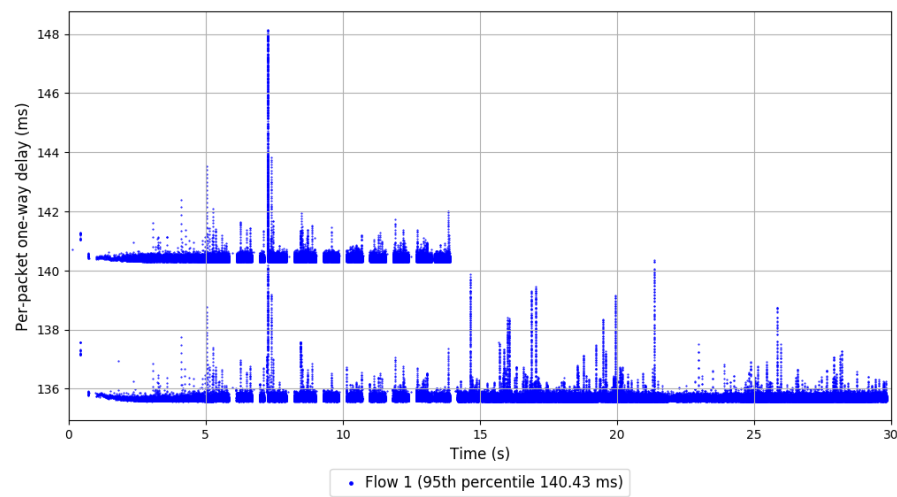
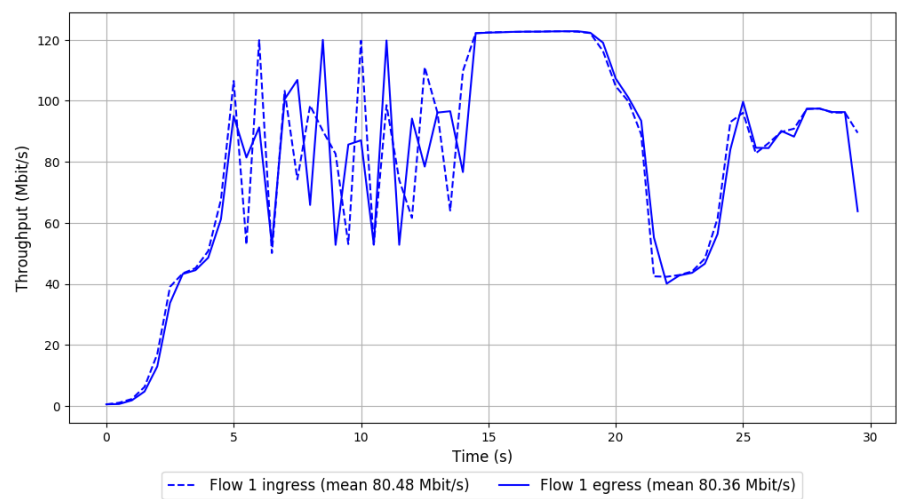
-- Flow 1:

Average throughput: 80.36 Mbit/s

95th percentile per-packet one-way delay: 140.427 ms

Loss rate: 1.07%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-06 10:36:53

End at: 2018-03-06 10:37:23

Below is generated by plot.py at 2018-03-06 15:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.99 Mbit/s

95th percentile per-packet one-way delay: 135.869 ms

Loss rate: 0.55%

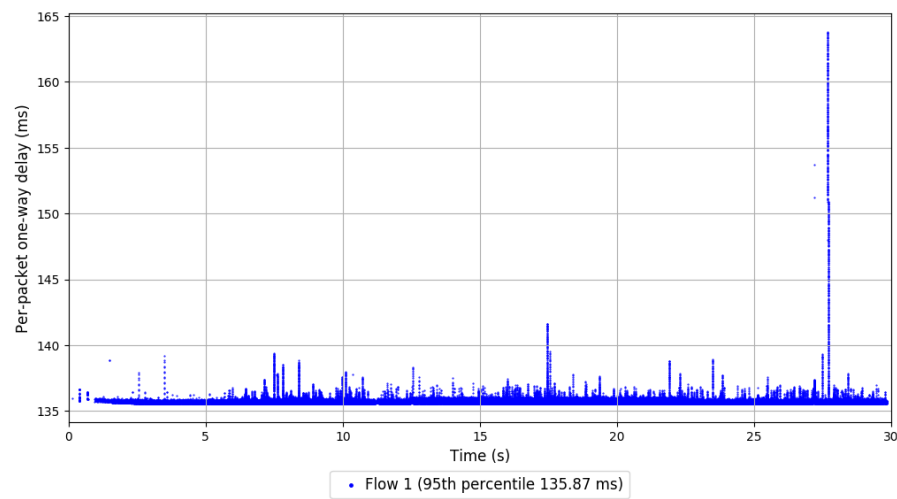
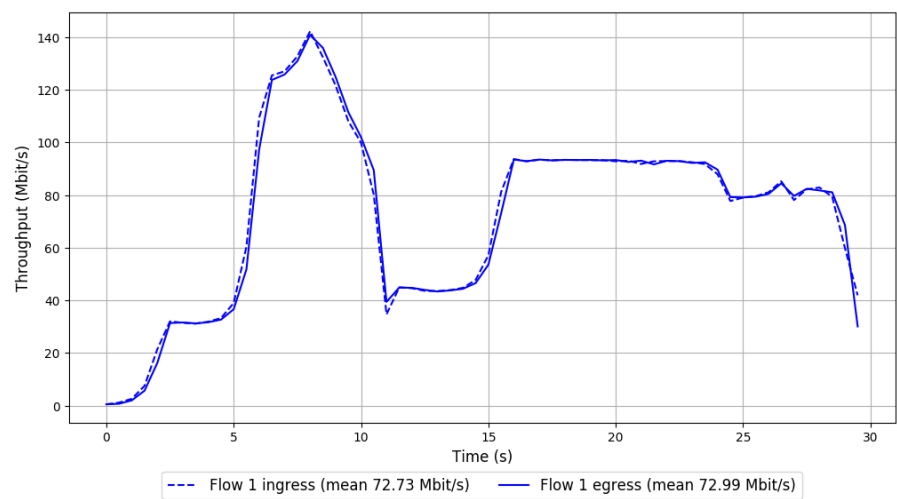
-- Flow 1:

Average throughput: 72.99 Mbit/s

95th percentile per-packet one-way delay: 135.869 ms

Loss rate: 0.55%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-06 10:53:17

End at: 2018-03-06 10:53:47

Below is generated by plot.py at 2018-03-06 15:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 136.356 ms

Loss rate: 0.69%

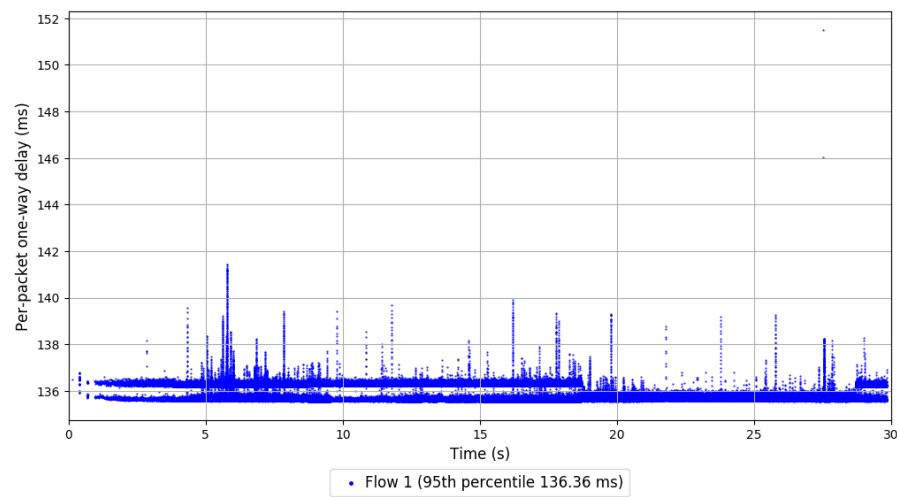
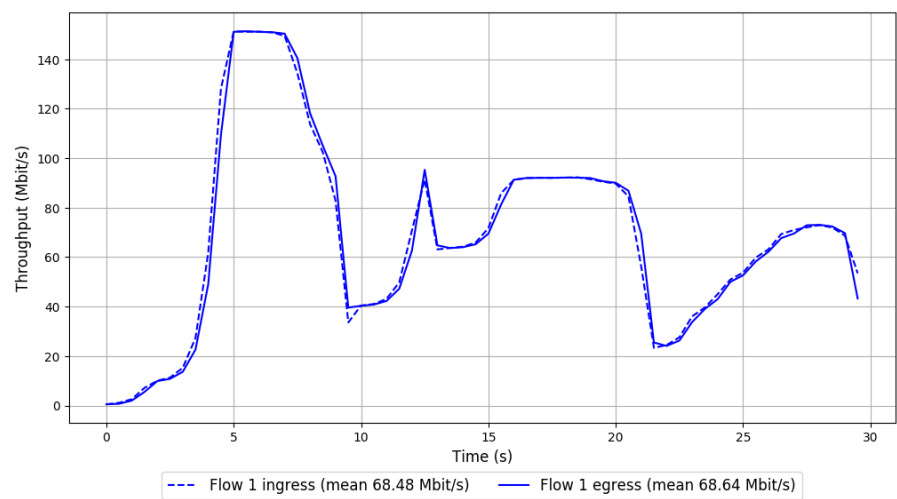
-- Flow 1:

Average throughput: 68.64 Mbit/s

95th percentile per-packet one-way delay: 136.356 ms

Loss rate: 0.69%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-06 11:09:12

End at: 2018-03-06 11:09:42

Below is generated by plot.py at 2018-03-06 15:10:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 135.704 ms

Loss rate: 1.20%

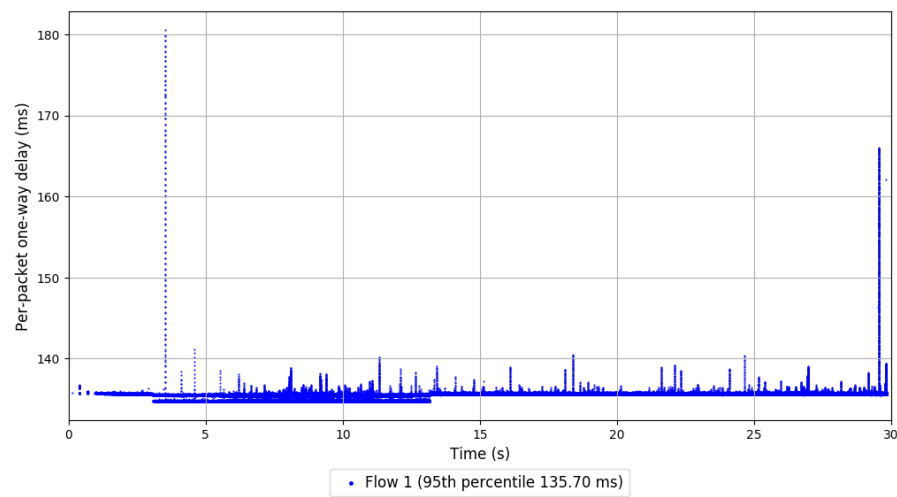
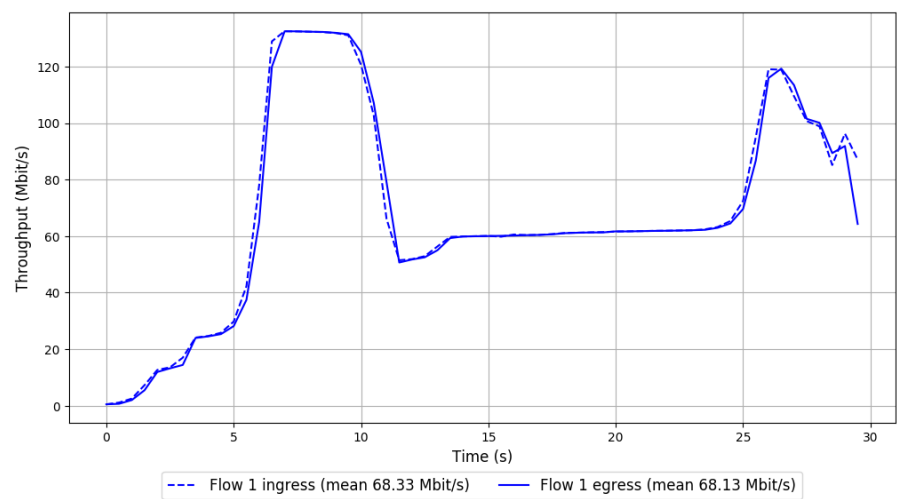
-- Flow 1:

Average throughput: 68.13 Mbit/s

95th percentile per-packet one-way delay: 135.704 ms

Loss rate: 1.20%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-06 11:24:59

End at: 2018-03-06 11:25:29

Below is generated by plot.py at 2018-03-06 15:10:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.93 Mbit/s

95th percentile per-packet one-way delay: 135.719 ms

Loss rate: 1.32%

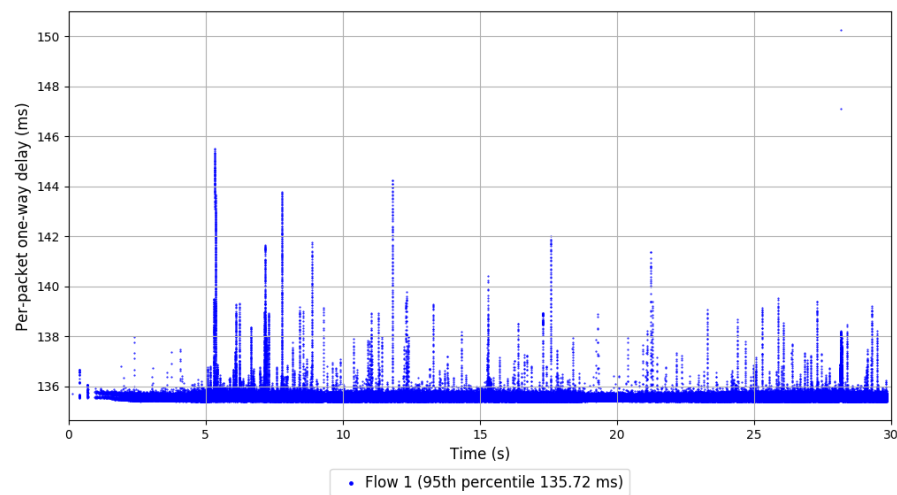
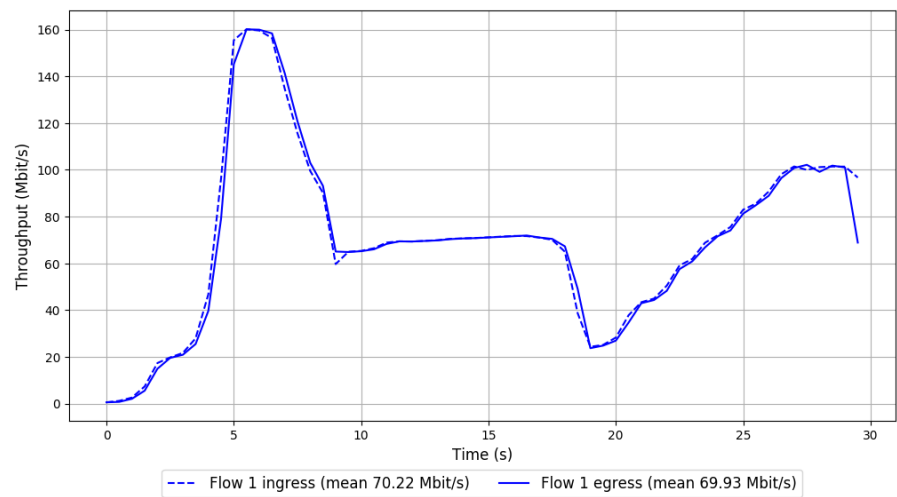
-- Flow 1:

Average throughput: 69.93 Mbit/s

95th percentile per-packet one-way delay: 135.719 ms

Loss rate: 1.32%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-06 11:41:17

End at: 2018-03-06 11:41:47

Below is generated by plot.py at 2018-03-06 15:10:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.72 Mbit/s

95th percentile per-packet one-way delay: 136.712 ms

Loss rate: 0.21%

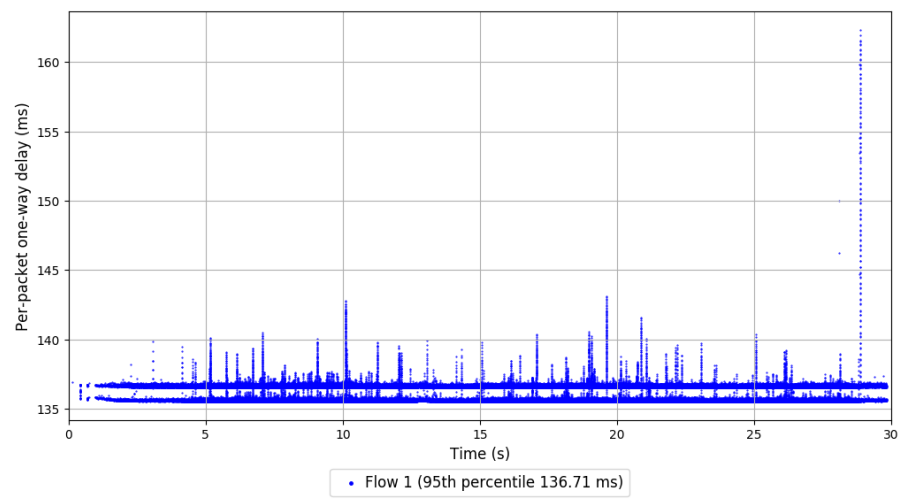
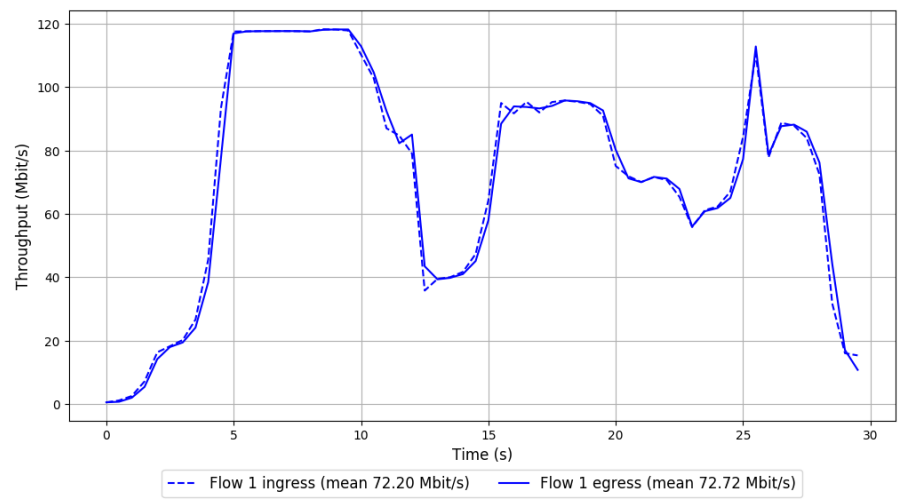
-- Flow 1:

Average throughput: 72.72 Mbit/s

95th percentile per-packet one-way delay: 136.712 ms

Loss rate: 0.21%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-06 09:24:08

End at: 2018-03-06 09:24:38

Below is generated by plot.py at 2018-03-06 15:24:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 850.76 Mbit/s

95th percentile per-packet one-way delay: 209.642 ms

Loss rate: 4.78%

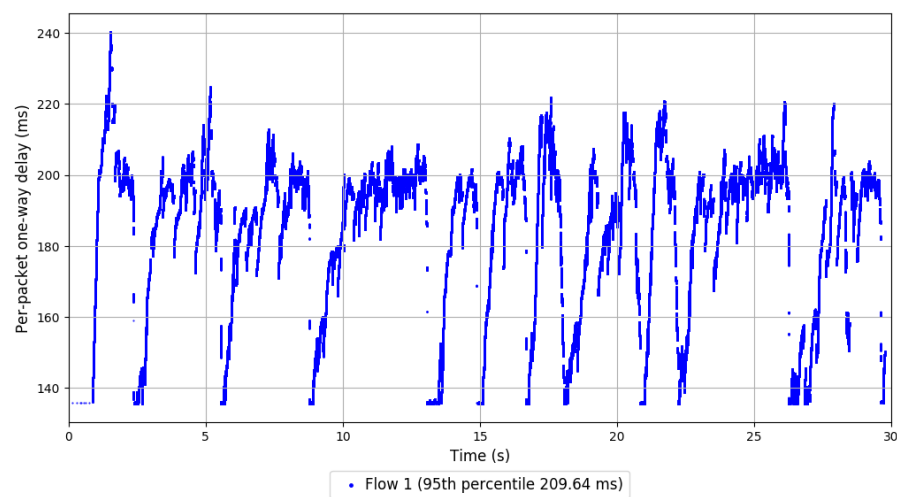
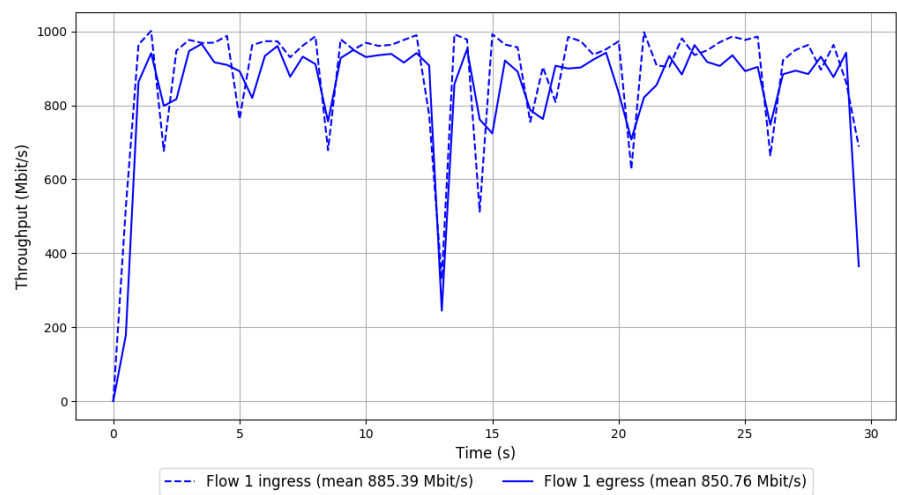
-- Flow 1:

Average throughput: 850.76 Mbit/s

95th percentile per-packet one-way delay: 209.642 ms

Loss rate: 4.78%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-06 09:40:13

End at: 2018-03-06 09:40:43

Below is generated by plot.py at 2018-03-06 15:24:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 843.25 Mbit/s

95th percentile per-packet one-way delay: 254.610 ms

Loss rate: 6.10%

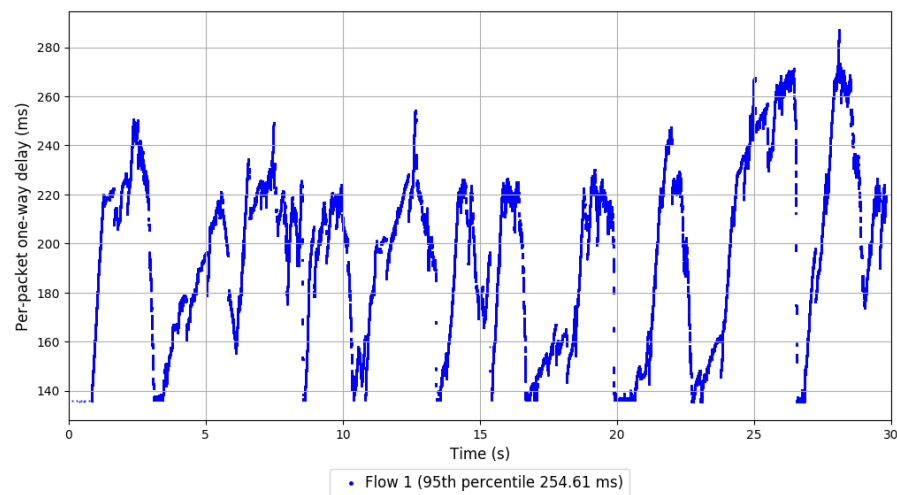
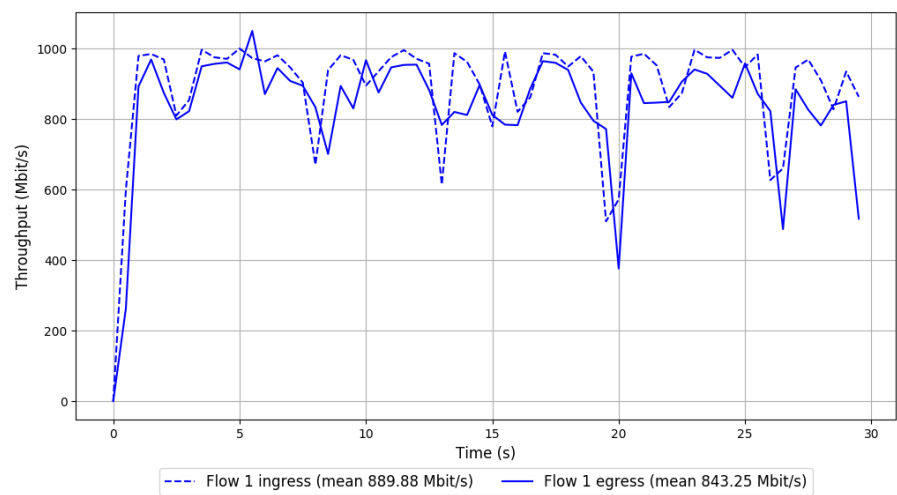
-- Flow 1:

Average throughput: 843.25 Mbit/s

95th percentile per-packet one-way delay: 254.610 ms

Loss rate: 6.10%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-06 09:56:25

End at: 2018-03-06 09:56:55

Below is generated by plot.py at 2018-03-06 15:24:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 865.46 Mbit/s

95th percentile per-packet one-way delay: 217.186 ms

Loss rate: 4.51%

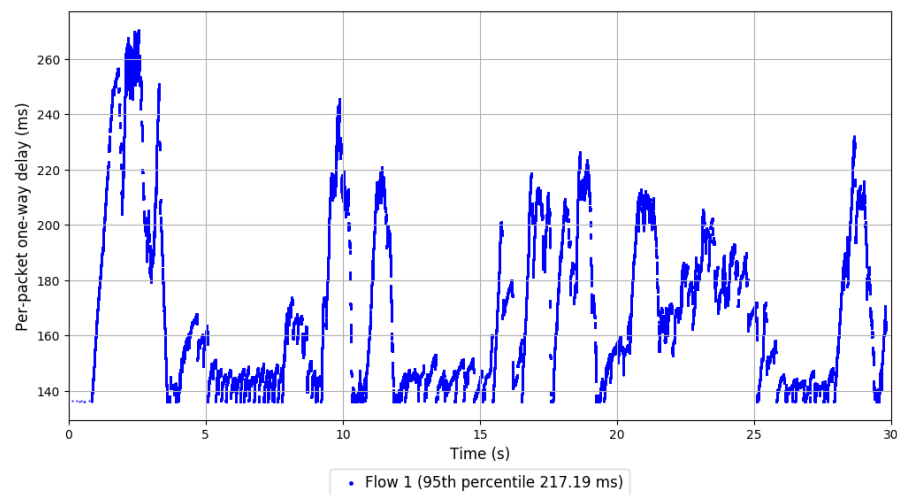
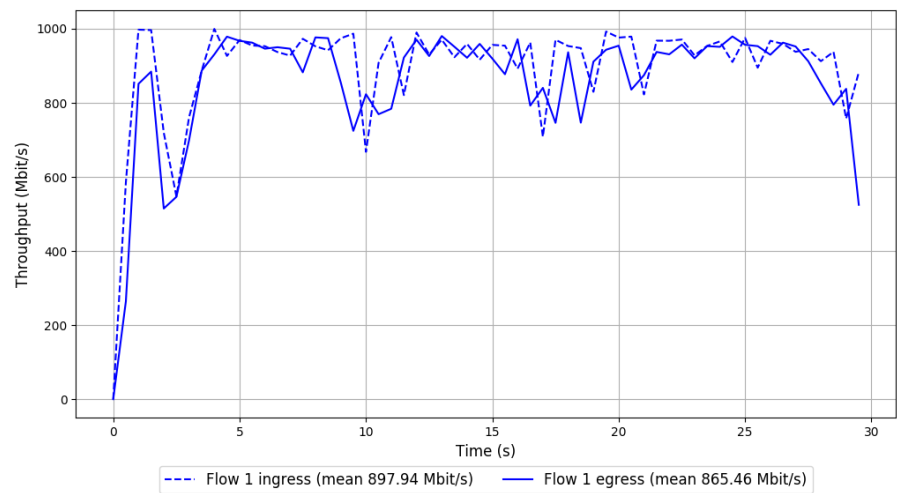
-- Flow 1:

Average throughput: 865.46 Mbit/s

95th percentile per-packet one-way delay: 217.186 ms

Loss rate: 4.51%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-06 10:12:35

End at: 2018-03-06 10:13:05

Below is generated by plot.py at 2018-03-06 15:25:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 877.64 Mbit/s

95th percentile per-packet one-way delay: 213.533 ms

Loss rate: 4.32%

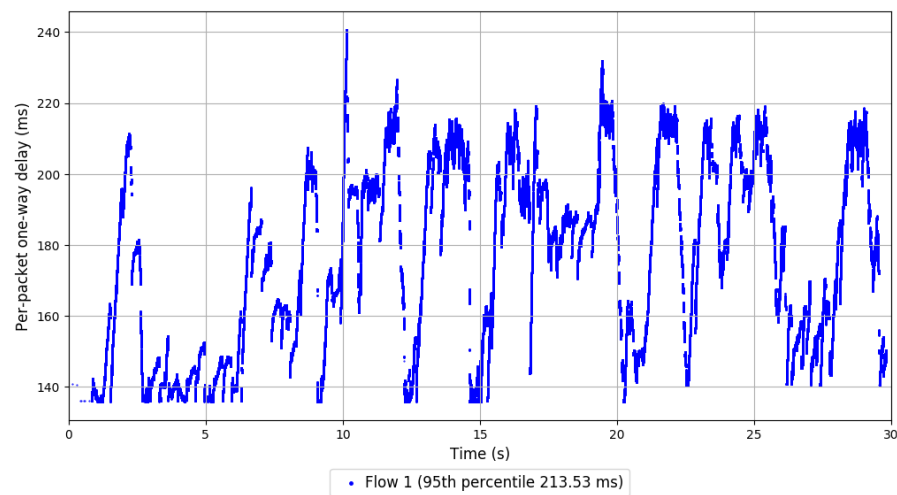
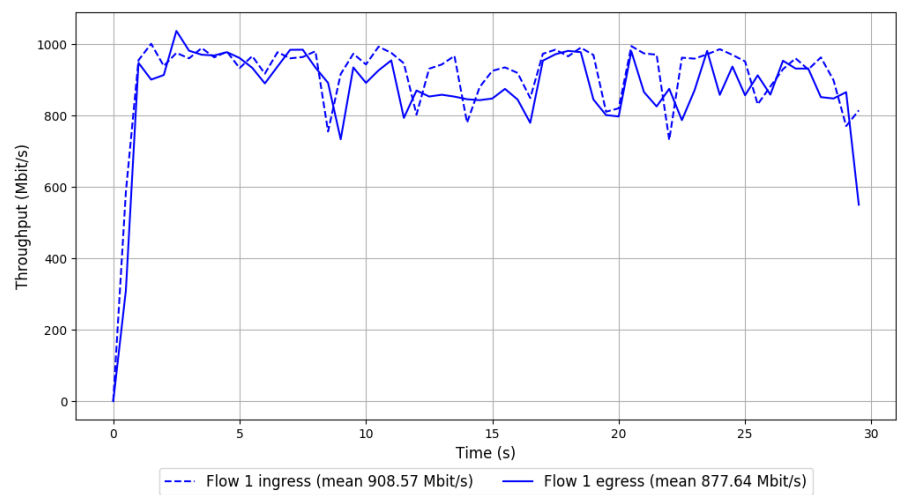
-- Flow 1:

Average throughput: 877.64 Mbit/s

95th percentile per-packet one-way delay: 213.533 ms

Loss rate: 4.32%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-06 10:28:23

End at: 2018-03-06 10:28:53

Below is generated by plot.py at 2018-03-06 15:25:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 827.63 Mbit/s

95th percentile per-packet one-way delay: 234.687 ms

Loss rate: 5.95%

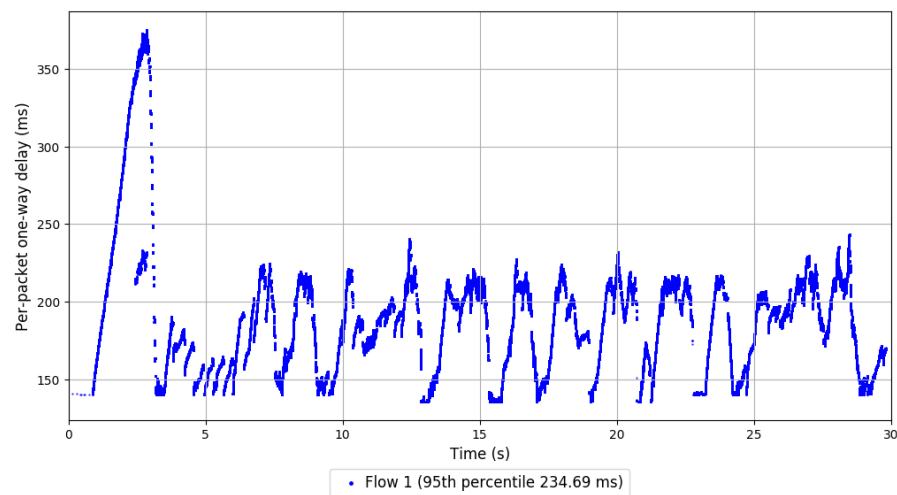
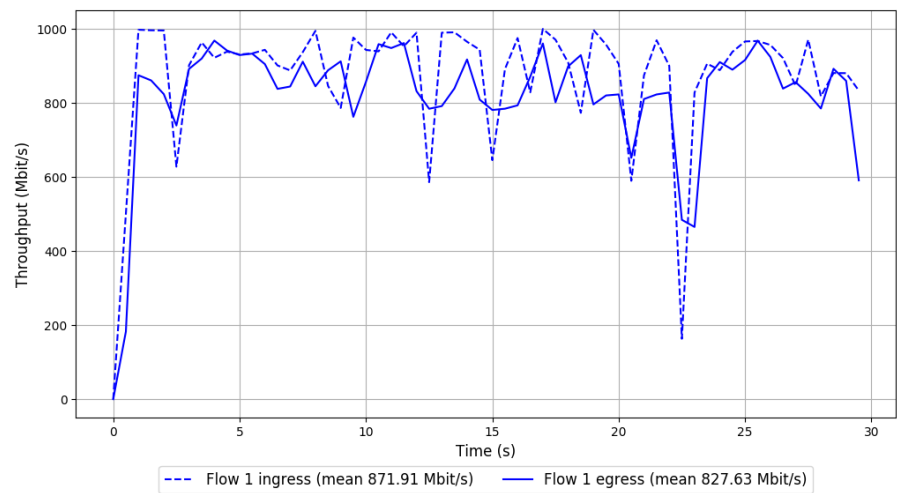
-- Flow 1:

Average throughput: 827.63 Mbit/s

95th percentile per-packet one-way delay: 234.687 ms

Loss rate: 5.95%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-06 10:44:32

End at: 2018-03-06 10:45:02

Below is generated by plot.py at 2018-03-06 15:25:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 856.81 Mbit/s

95th percentile per-packet one-way delay: 212.618 ms

Loss rate: 4.99%

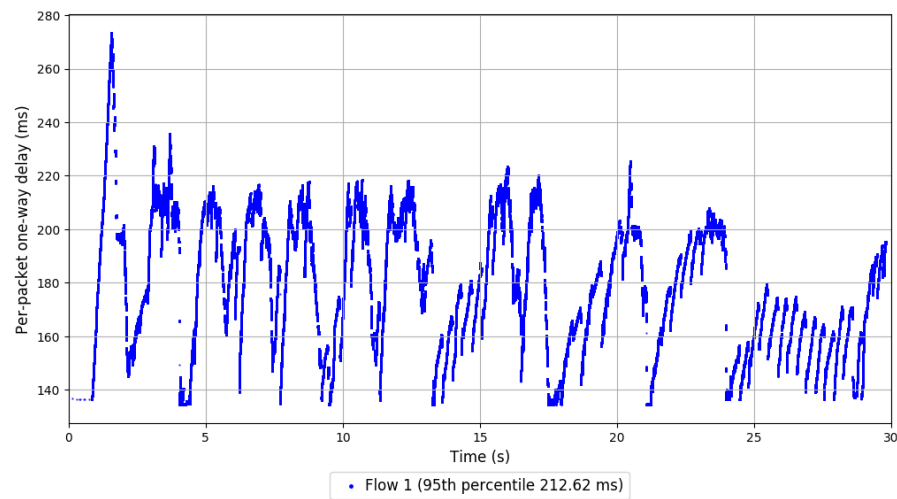
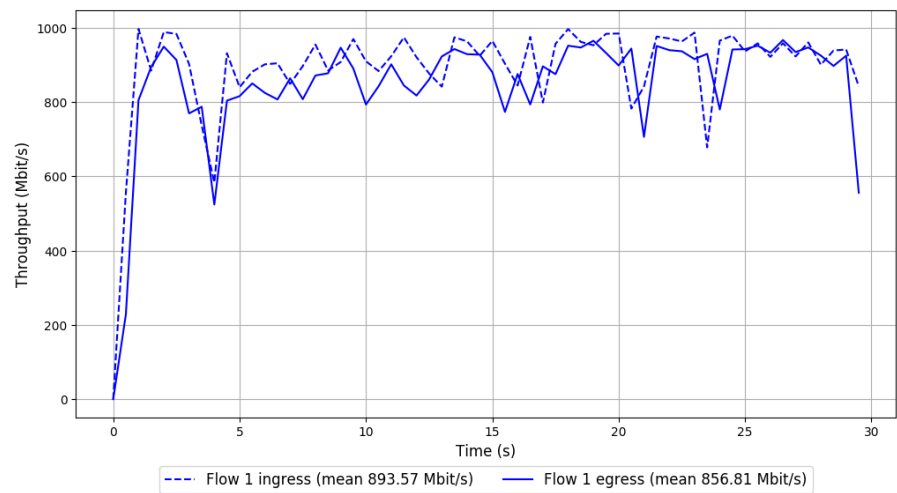
-- Flow 1:

Average throughput: 856.81 Mbit/s

95th percentile per-packet one-way delay: 212.618 ms

Loss rate: 4.99%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-06 11:00:38

End at: 2018-03-06 11:01:08

Below is generated by plot.py at 2018-03-06 15:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 889.66 Mbit/s

95th percentile per-packet one-way delay: 215.574 ms

Loss rate: 3.35%

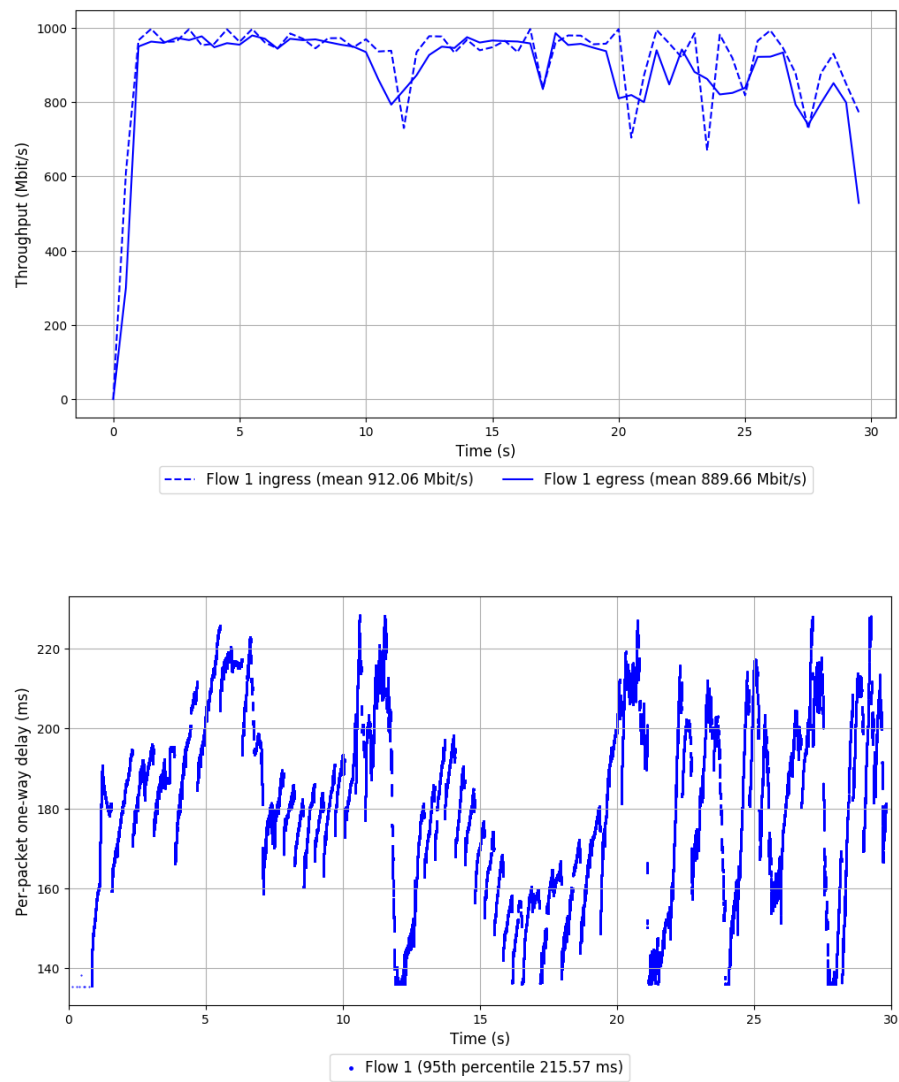
-- Flow 1:

Average throughput: 889.66 Mbit/s

95th percentile per-packet one-way delay: 215.574 ms

Loss rate: 3.35%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-06 11:16:33

End at: 2018-03-06 11:17:03

Below is generated by plot.py at 2018-03-06 15:26:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 825.11 Mbit/s

95th percentile per-packet one-way delay: 216.509 ms

Loss rate: 6.29%

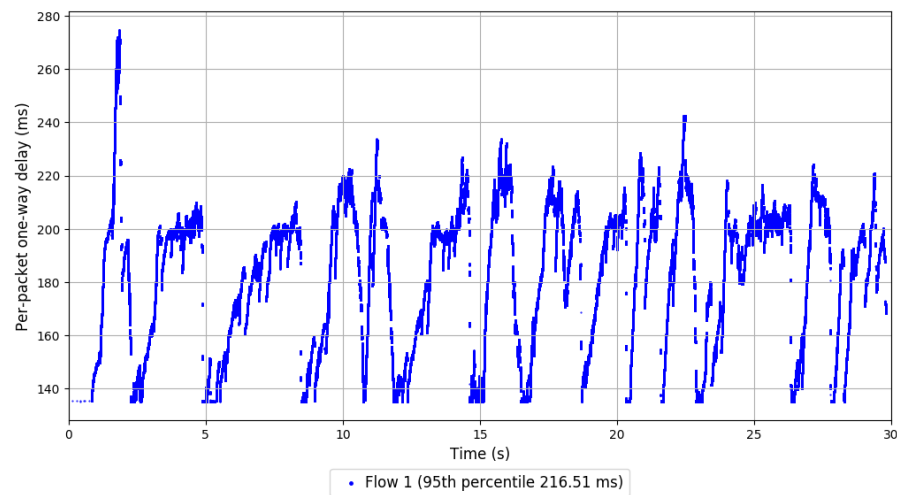
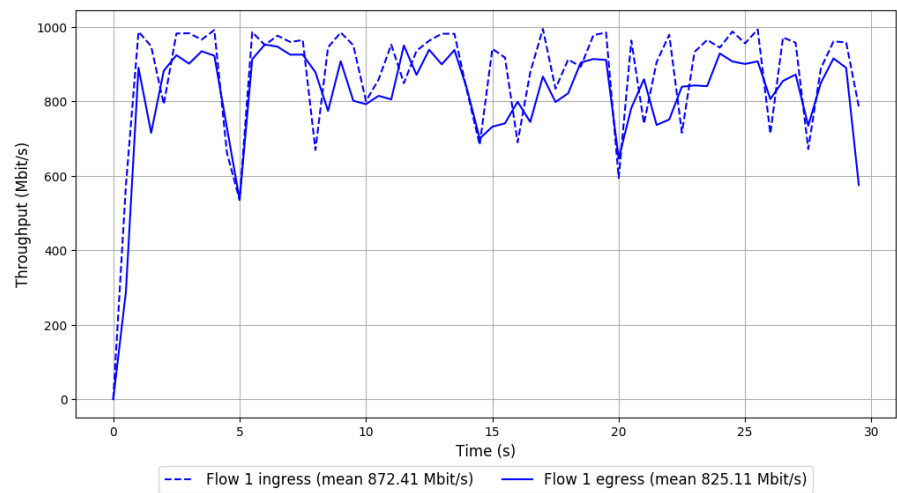
-- Flow 1:

Average throughput: 825.11 Mbit/s

95th percentile per-packet one-way delay: 216.509 ms

Loss rate: 6.29%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-06 11:32:37

End at: 2018-03-06 11:33:07

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 887.26 Mbit/s

95th percentile per-packet one-way delay: 209.396 ms

Loss rate: 3.58%

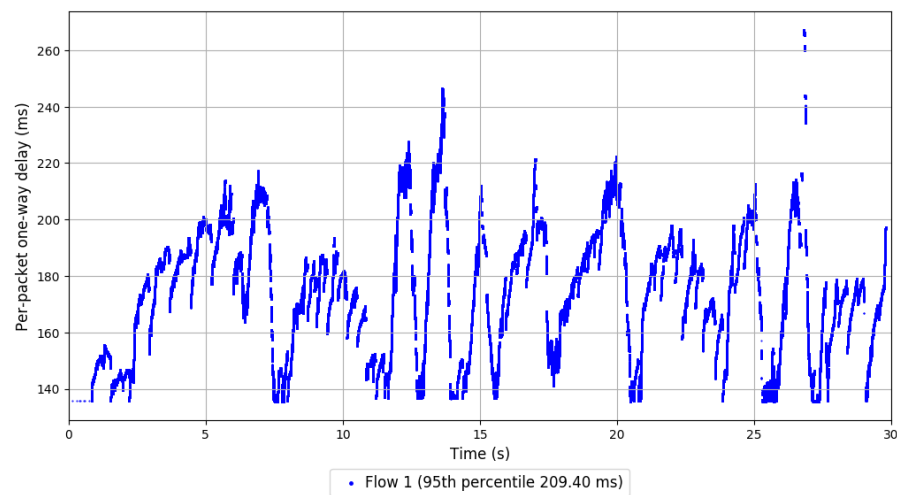
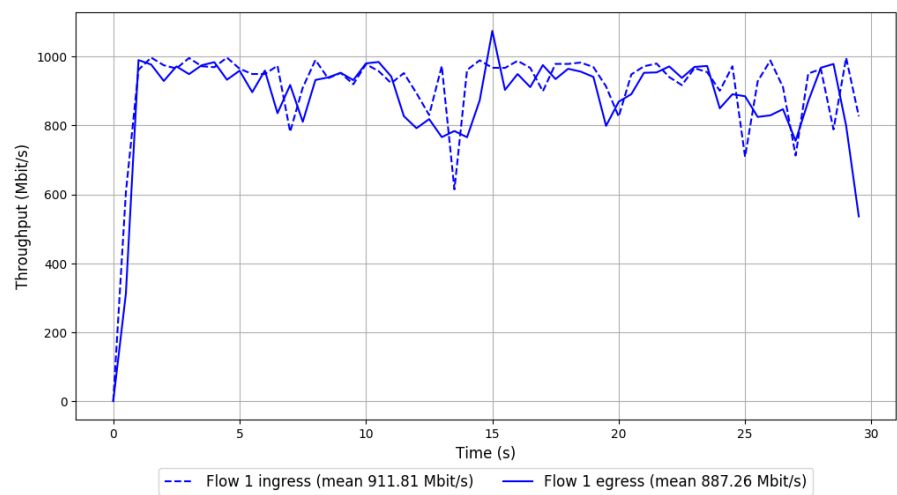
-- Flow 1:

Average throughput: 887.26 Mbit/s

95th percentile per-packet one-way delay: 209.396 ms

Loss rate: 3.58%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-06 11:48:40

End at: 2018-03-06 11:49:10

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.04 Mbit/s

95th percentile per-packet one-way delay: 216.438 ms

Loss rate: 6.25%

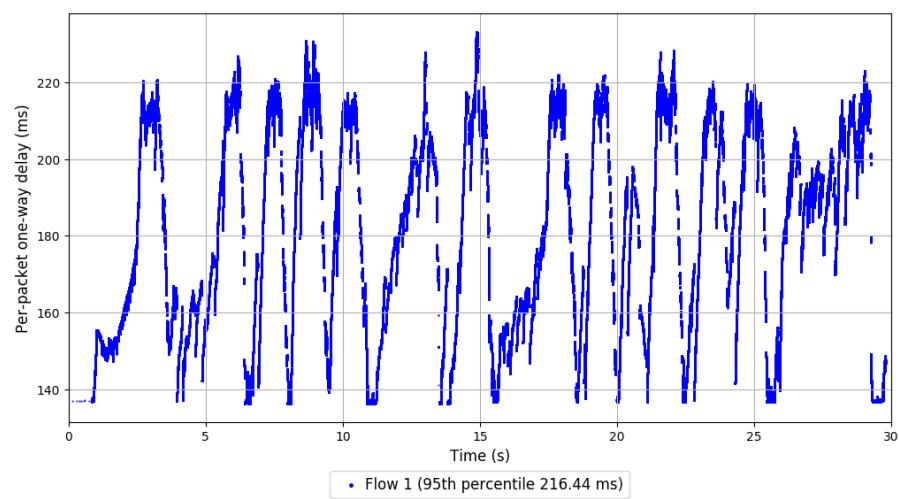
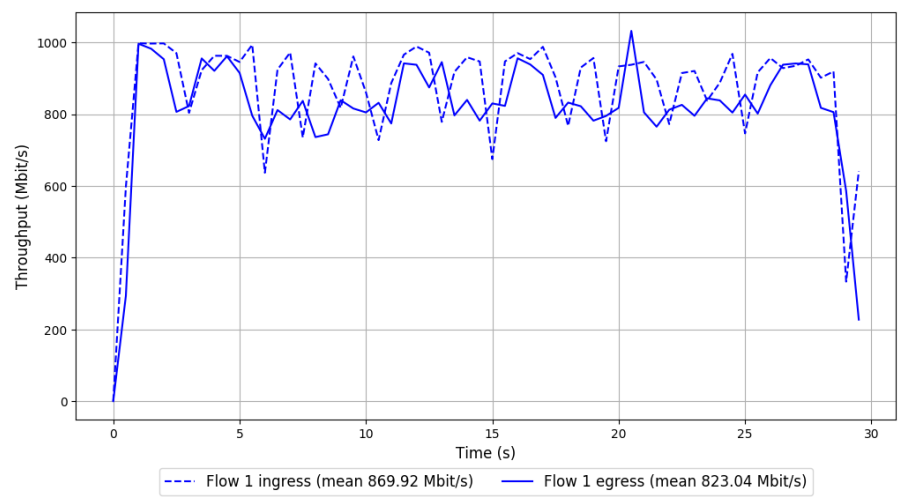
-- Flow 1:

Average throughput: 823.04 Mbit/s

95th percentile per-packet one-way delay: 216.438 ms

Loss rate: 6.25%

Run 10: Report of FillP — Data Link

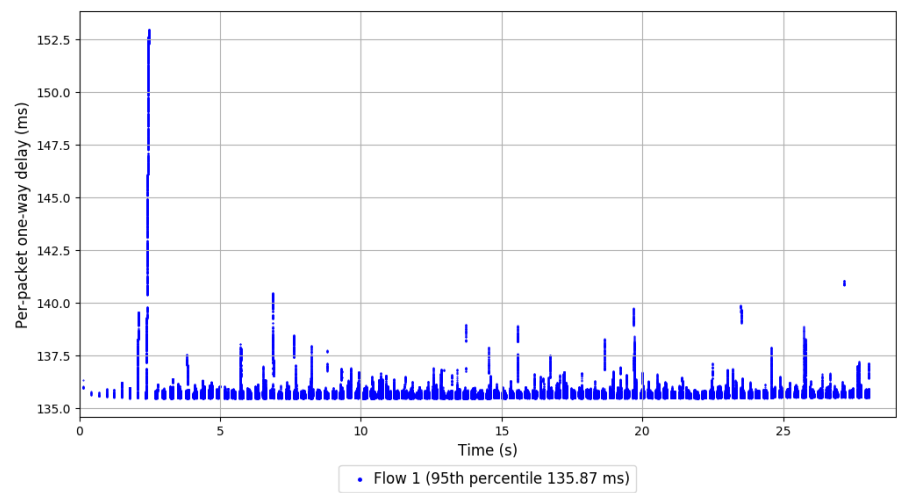
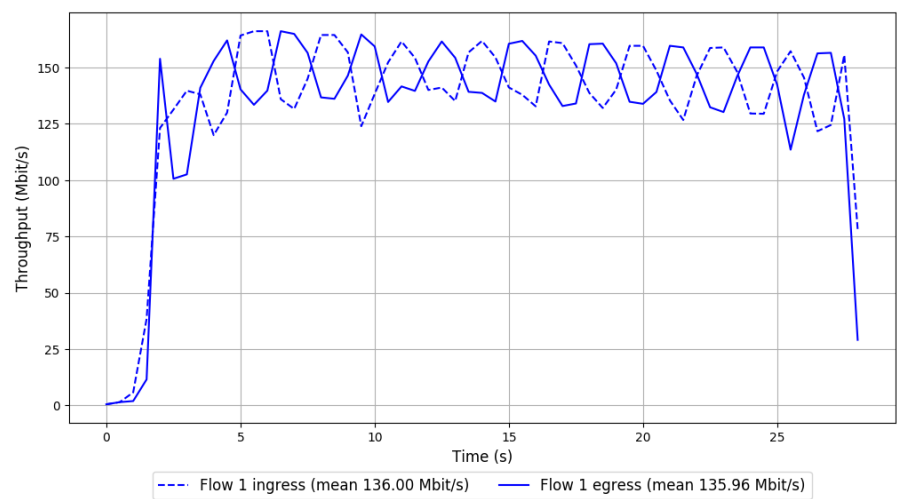


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-06 09:19:49
End at: 2018-03-06 09:20:19

# Below is generated by plot.py at 2018-03-06 15:40:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 135.96 Mbit/s
95th percentile per-packet one-way delay: 135.873 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 135.96 Mbit/s
95th percentile per-packet one-way delay: 135.873 ms
Loss rate: 1.02%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-06 09:35:53

End at: 2018-03-06 09:36:23

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.64 Mbit/s

95th percentile per-packet one-way delay: 135.885 ms

Loss rate: 0.98%

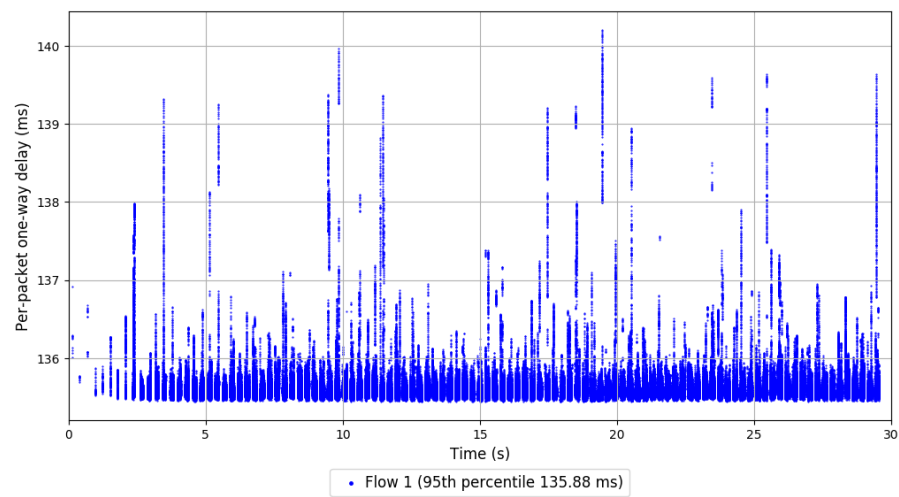
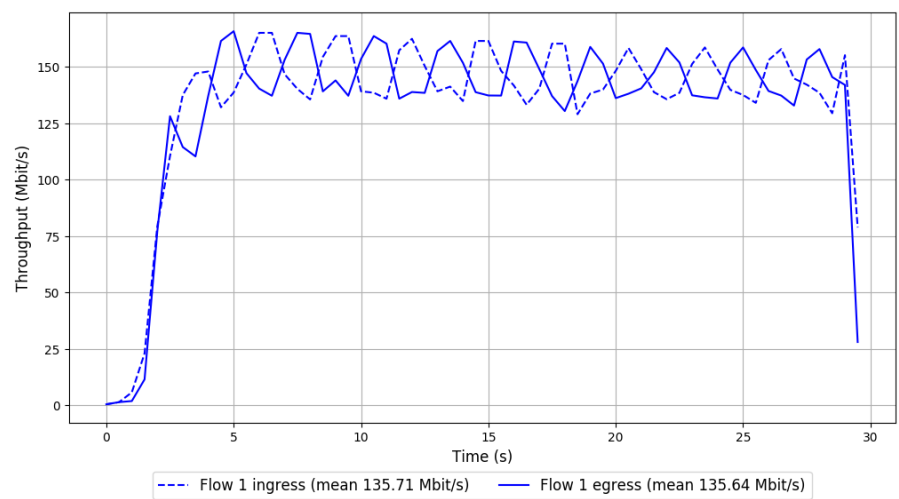
-- Flow 1:

Average throughput: 135.64 Mbit/s

95th percentile per-packet one-way delay: 135.885 ms

Loss rate: 0.98%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-06 09:52:03

End at: 2018-03-06 09:52:33

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.66 Mbit/s

95th percentile per-packet one-way delay: 136.071 ms

Loss rate: 0.88%

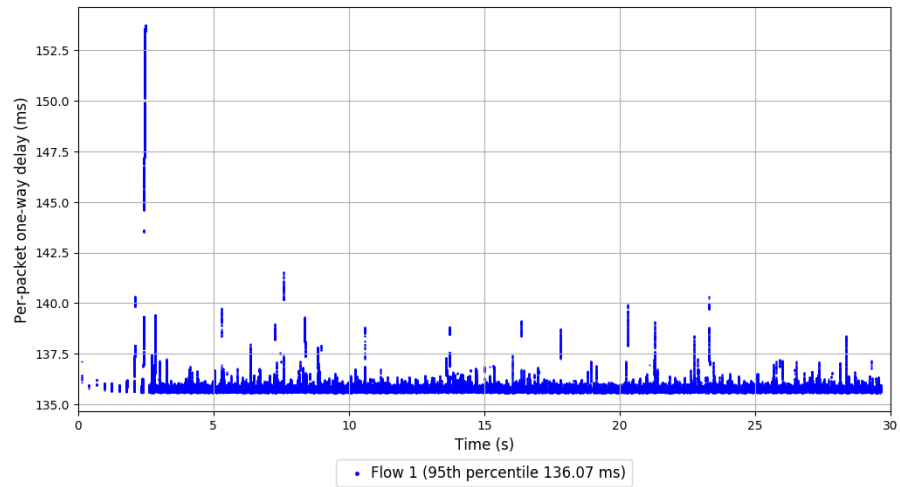
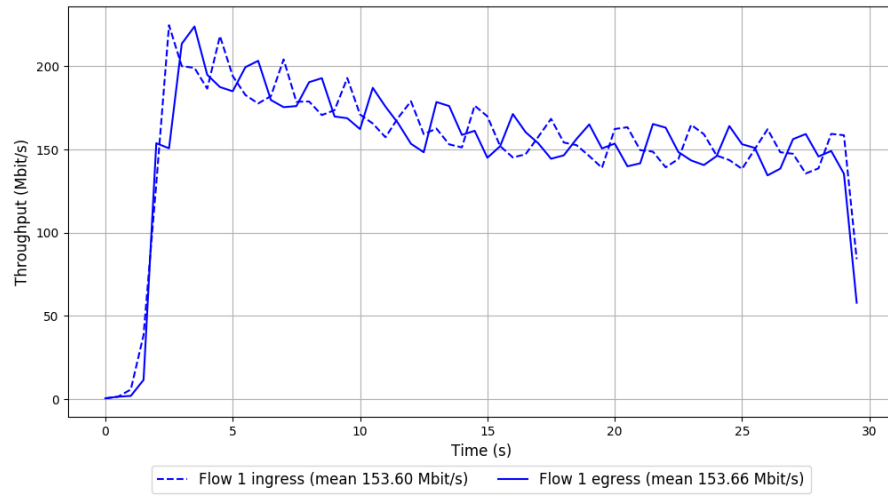
-- Flow 1:

Average throughput: 153.66 Mbit/s

95th percentile per-packet one-way delay: 136.071 ms

Loss rate: 0.88%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-06 10:08:11

End at: 2018-03-06 10:08:41

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 136.366 ms

Loss rate: 0.83%

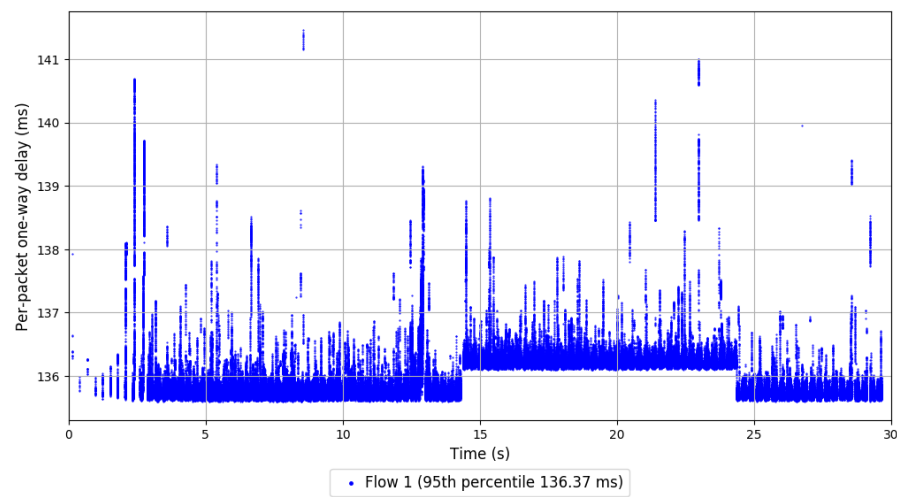
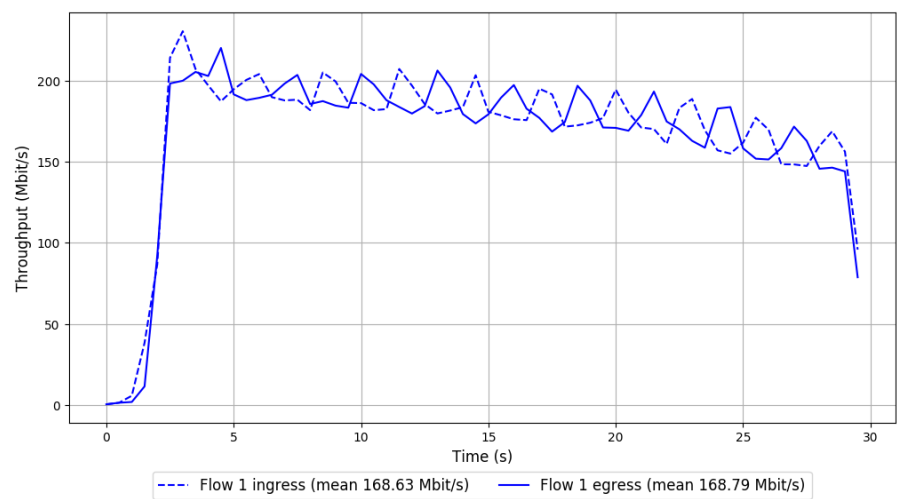
-- Flow 1:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 136.366 ms

Loss rate: 0.83%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-06 10:24:00

End at: 2018-03-06 10:24:30

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.21 Mbit/s

95th percentile per-packet one-way delay: 136.380 ms

Loss rate: 0.91%

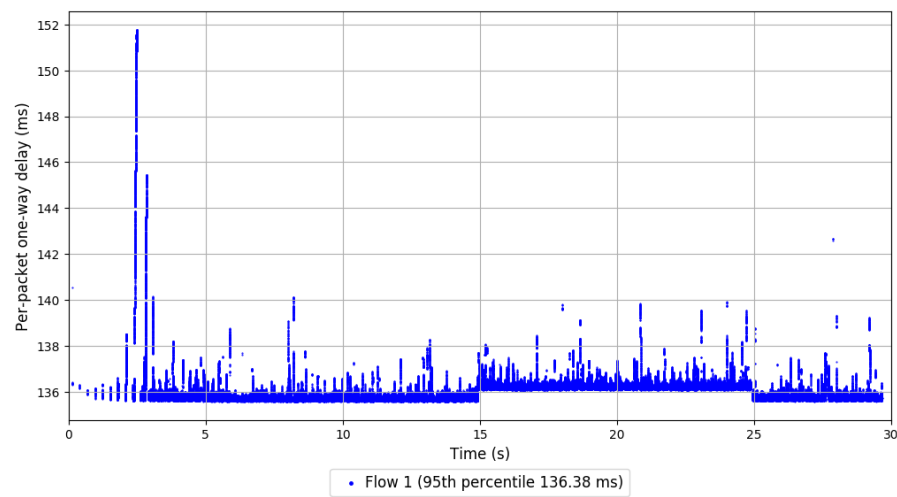
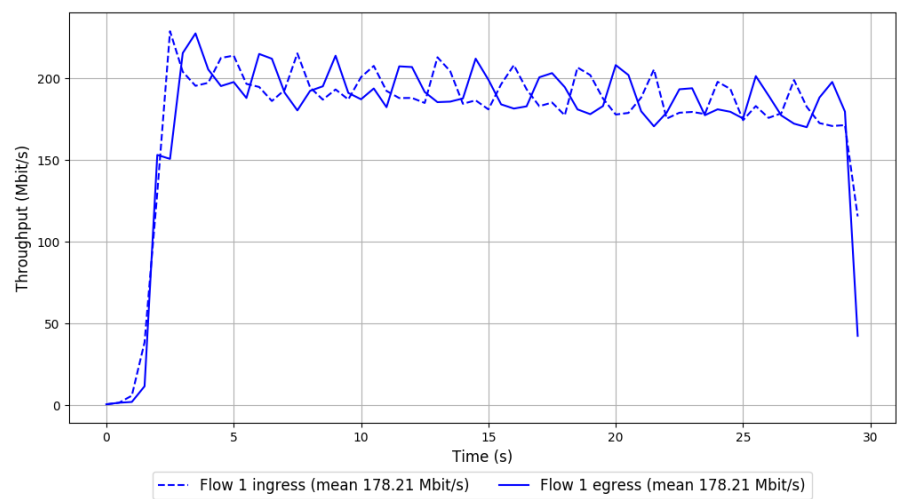
-- Flow 1:

Average throughput: 178.21 Mbit/s

95th percentile per-packet one-way delay: 136.380 ms

Loss rate: 0.91%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-06 10:40:10

End at: 2018-03-06 10:40:40

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.93 Mbit/s

95th percentile per-packet one-way delay: 136.210 ms

Loss rate: 0.99%

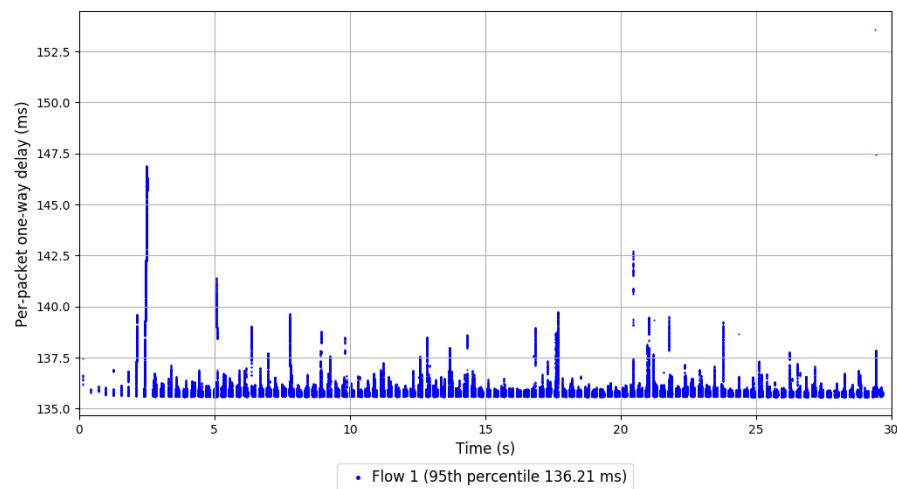
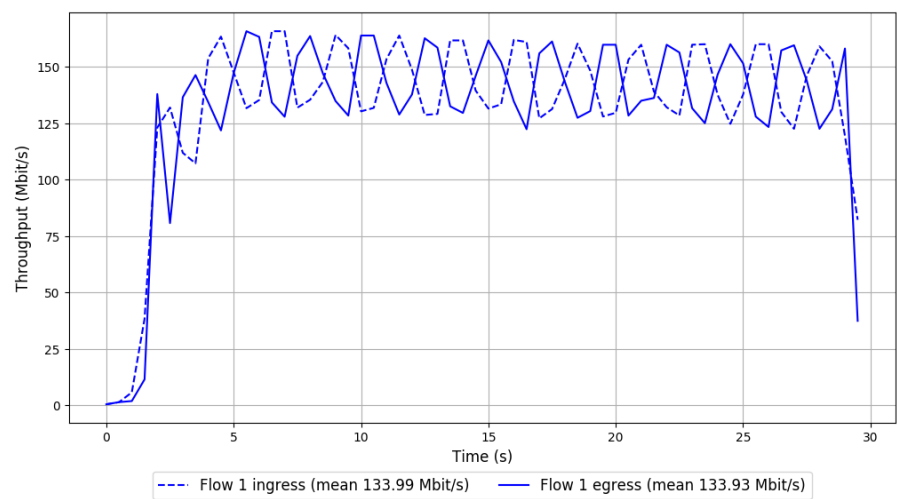
-- Flow 1:

Average throughput: 133.93 Mbit/s

95th percentile per-packet one-way delay: 136.210 ms

Loss rate: 0.99%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-06 10:56:15

End at: 2018-03-06 10:56:45

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.38 Mbit/s

95th percentile per-packet one-way delay: 135.956 ms

Loss rate: 0.94%

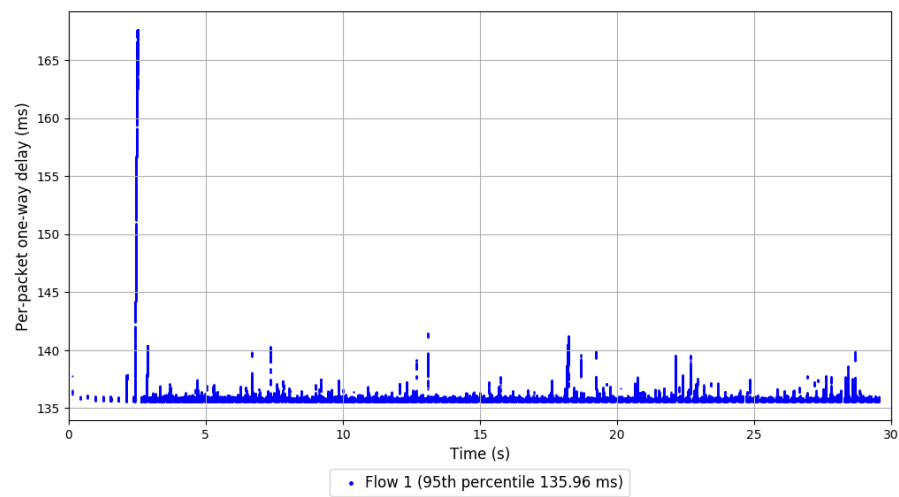
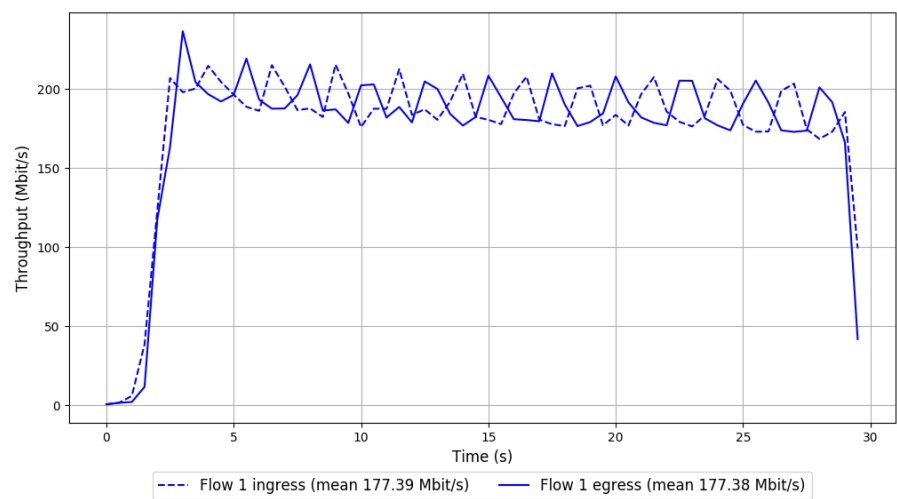
-- Flow 1:

Average throughput: 177.38 Mbit/s

95th percentile per-packet one-way delay: 135.956 ms

Loss rate: 0.94%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-06 11:12:11

End at: 2018-03-06 11:12:41

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.15 Mbit/s

95th percentile per-packet one-way delay: 135.874 ms

Loss rate: 0.91%

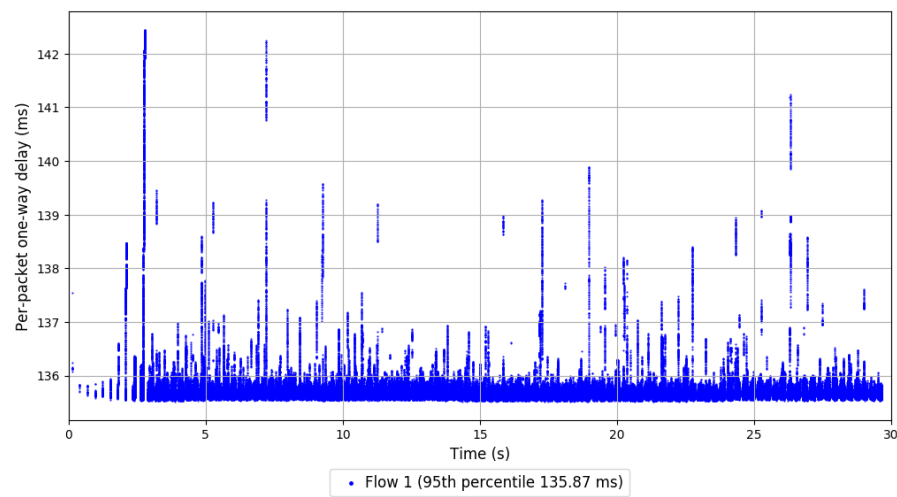
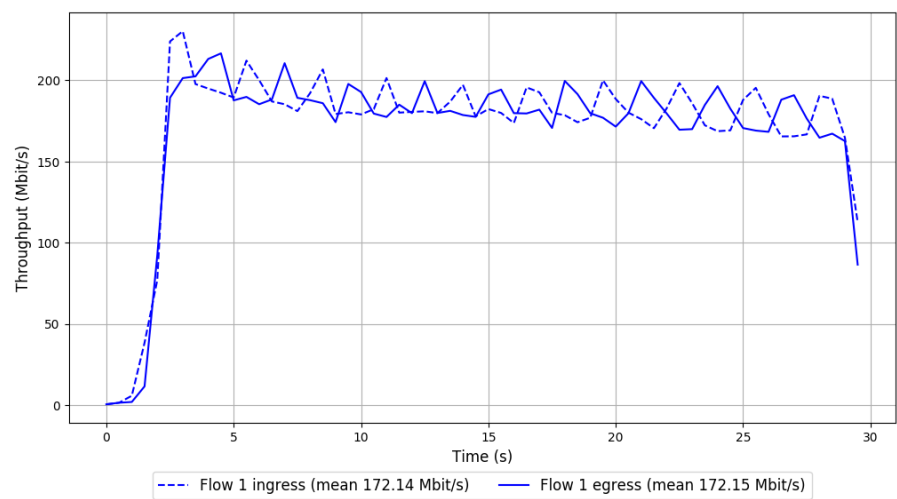
-- Flow 1:

Average throughput: 172.15 Mbit/s

95th percentile per-packet one-way delay: 135.874 ms

Loss rate: 0.91%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-06 11:28:17

End at: 2018-03-06 11:28:47

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.44 Mbit/s

95th percentile per-packet one-way delay: 136.043 ms

Loss rate: 0.96%

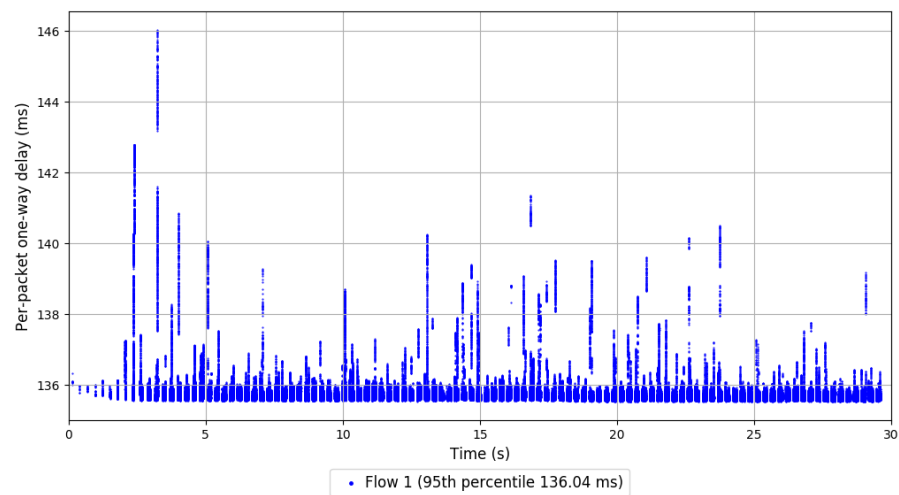
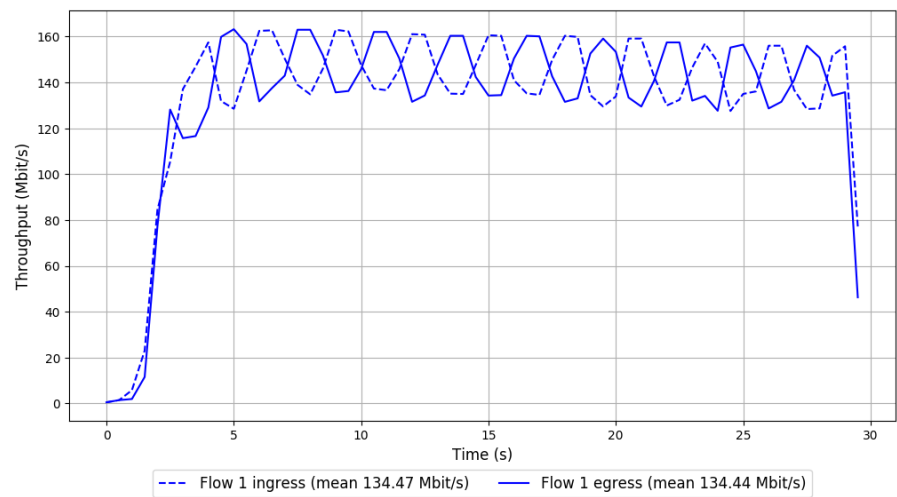
-- Flow 1:

Average throughput: 134.44 Mbit/s

95th percentile per-packet one-way delay: 136.043 ms

Loss rate: 0.96%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-06 11:44:16

End at: 2018-03-06 11:44:46

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.76 Mbit/s

95th percentile per-packet one-way delay: 135.751 ms

Loss rate: 0.93%

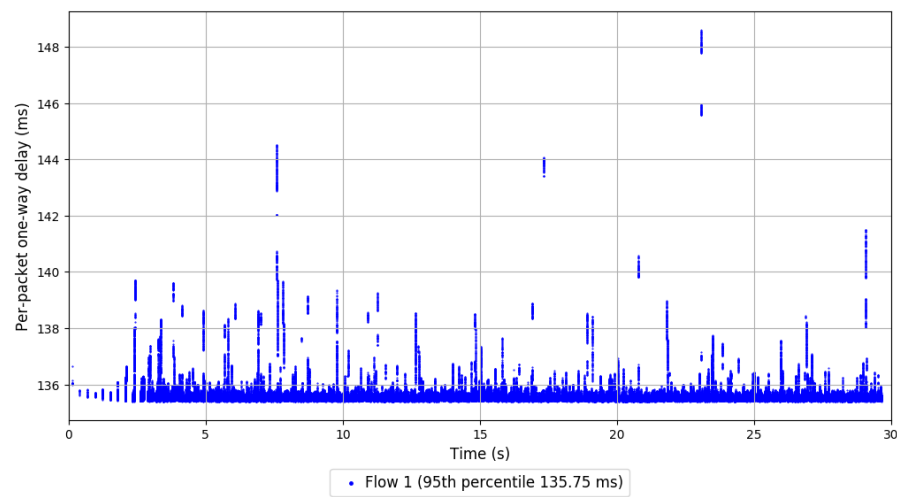
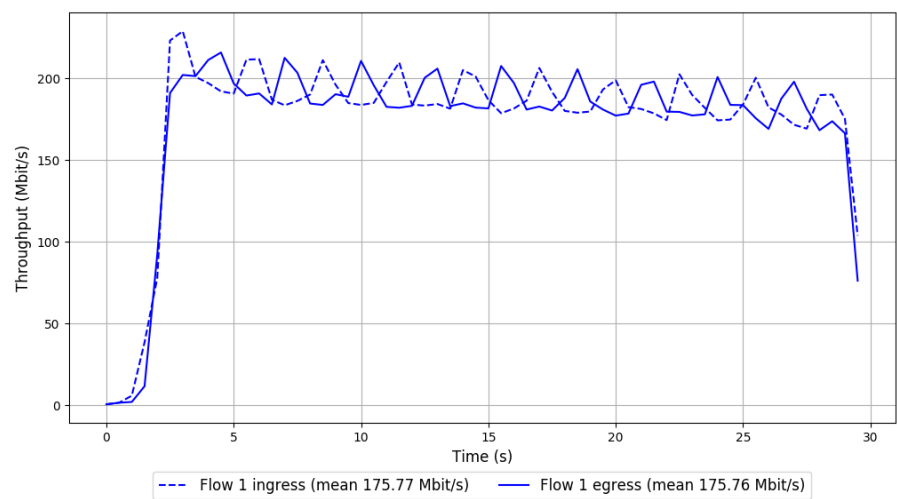
-- Flow 1:

Average throughput: 175.76 Mbit/s

95th percentile per-packet one-way delay: 135.751 ms

Loss rate: 0.93%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-06 09:15:41

End at: 2018-03-06 09:16:11

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.94 Mbit/s

95th percentile per-packet one-way delay: 170.109 ms

Loss rate: 1.28%

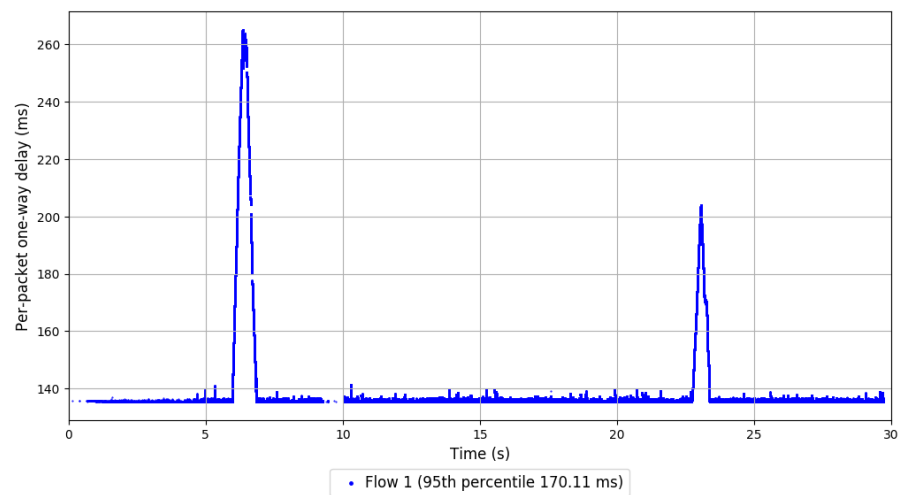
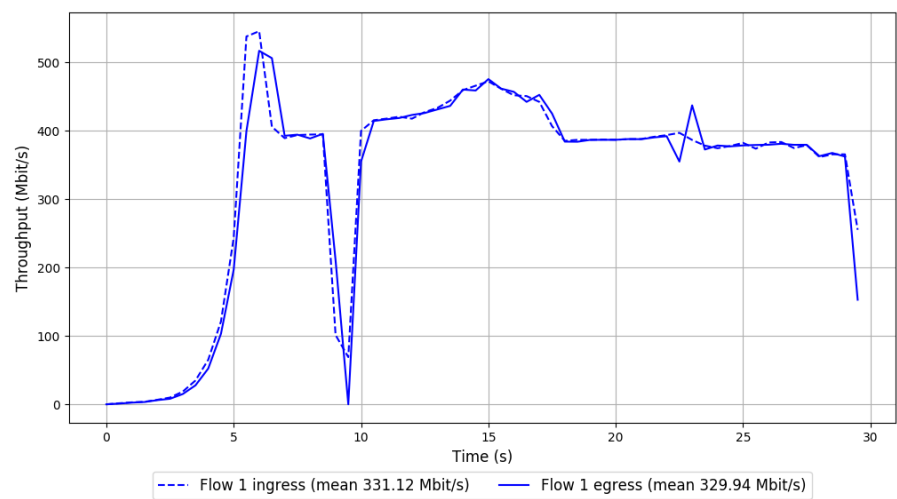
-- Flow 1:

Average throughput: 329.94 Mbit/s

95th percentile per-packet one-way delay: 170.109 ms

Loss rate: 1.28%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-06 09:31:46

End at: 2018-03-06 09:32:16

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.73 Mbit/s

95th percentile per-packet one-way delay: 169.057 ms

Loss rate: 1.83%

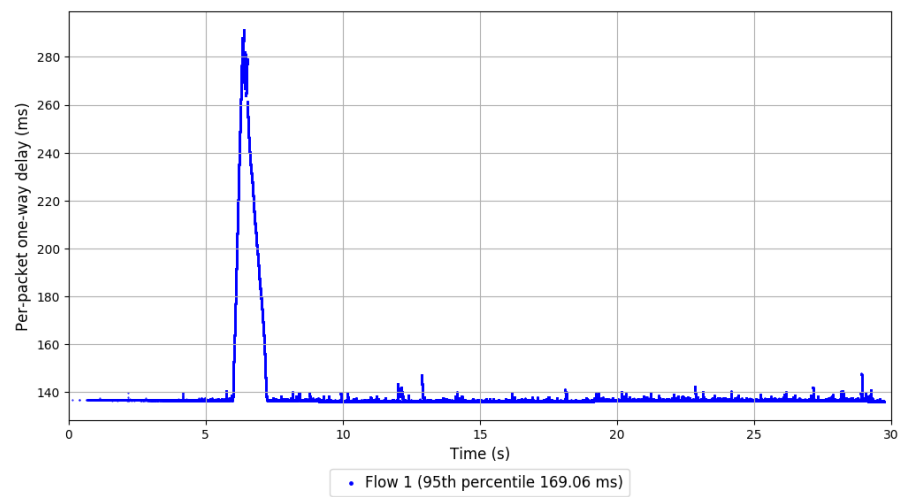
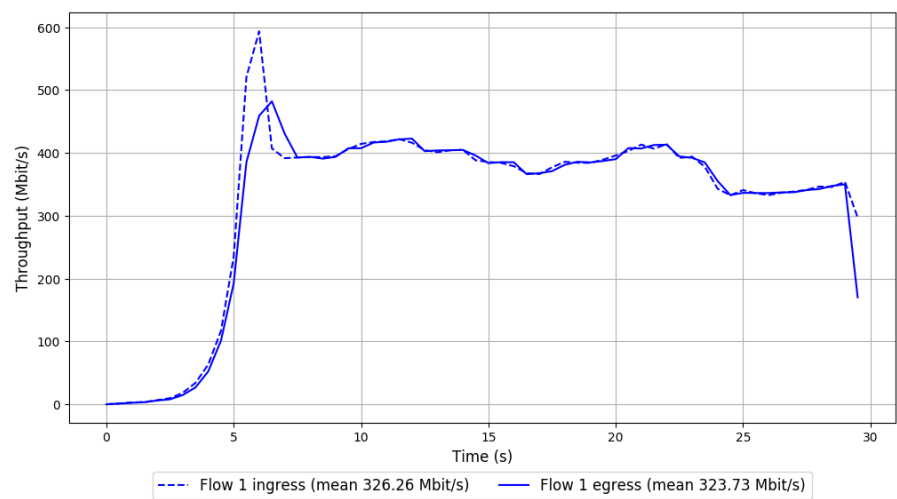
-- Flow 1:

Average throughput: 323.73 Mbit/s

95th percentile per-packet one-way delay: 169.057 ms

Loss rate: 1.83%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-06 09:47:36

End at: 2018-03-06 09:48:06

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.49 Mbit/s

95th percentile per-packet one-way delay: 146.130 ms

Loss rate: 1.67%

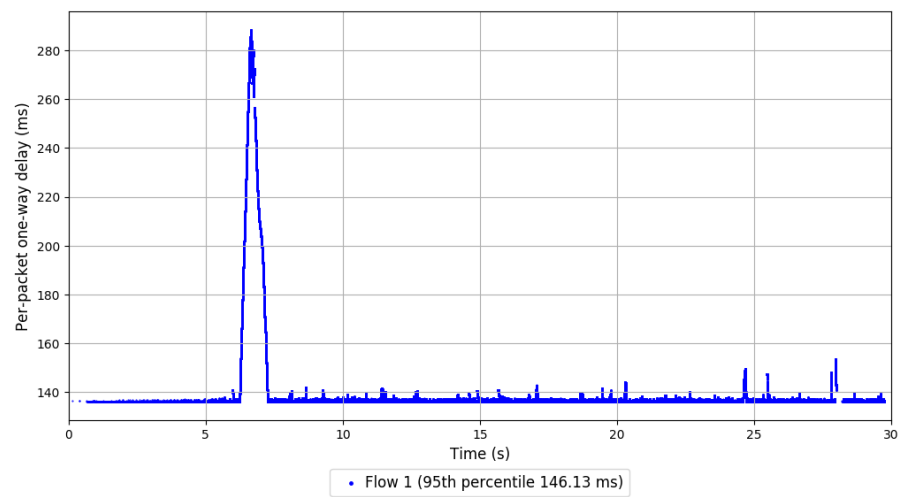
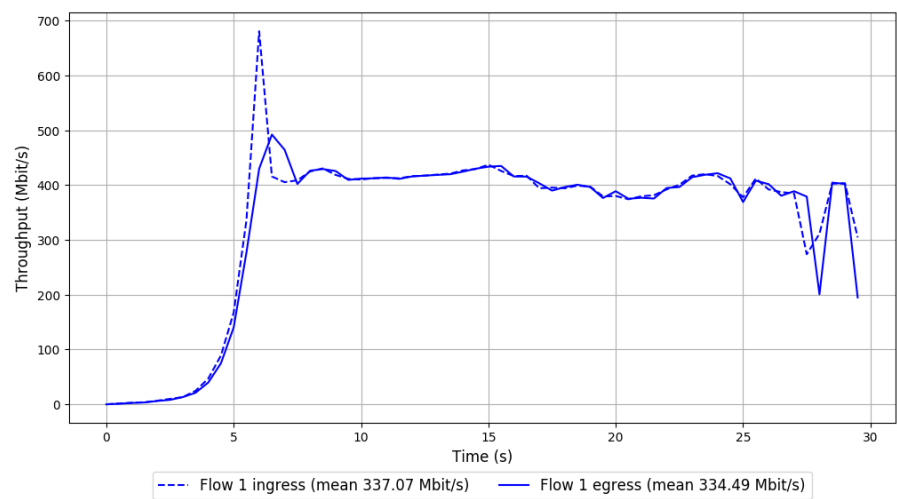
-- Flow 1:

Average throughput: 334.49 Mbit/s

95th percentile per-packet one-way delay: 146.130 ms

Loss rate: 1.67%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-06 10:03:56

End at: 2018-03-06 10:04:26

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.31 Mbit/s

95th percentile per-packet one-way delay: 180.634 ms

Loss rate: 1.28%

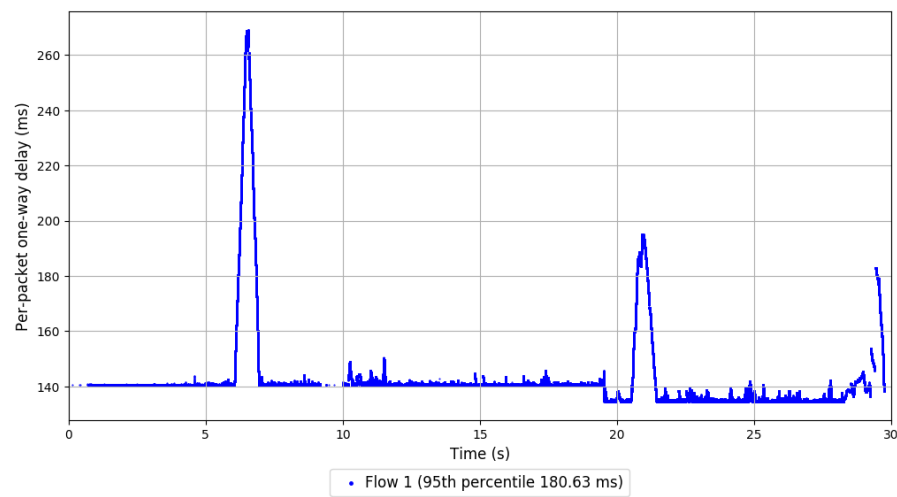
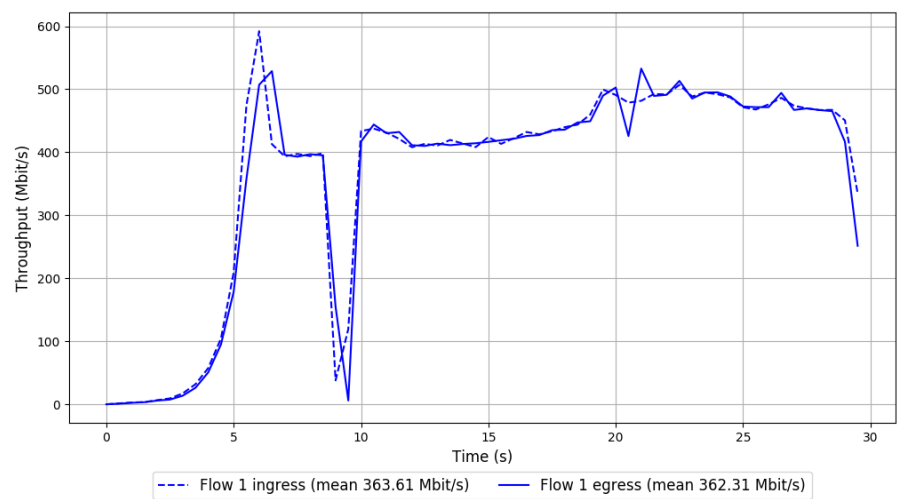
-- Flow 1:

Average throughput: 362.31 Mbit/s

95th percentile per-packet one-way delay: 180.634 ms

Loss rate: 1.28%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-06 10:19:54

End at: 2018-03-06 10:20:24

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.05 Mbit/s

95th percentile per-packet one-way delay: 153.282 ms

Loss rate: 1.56%

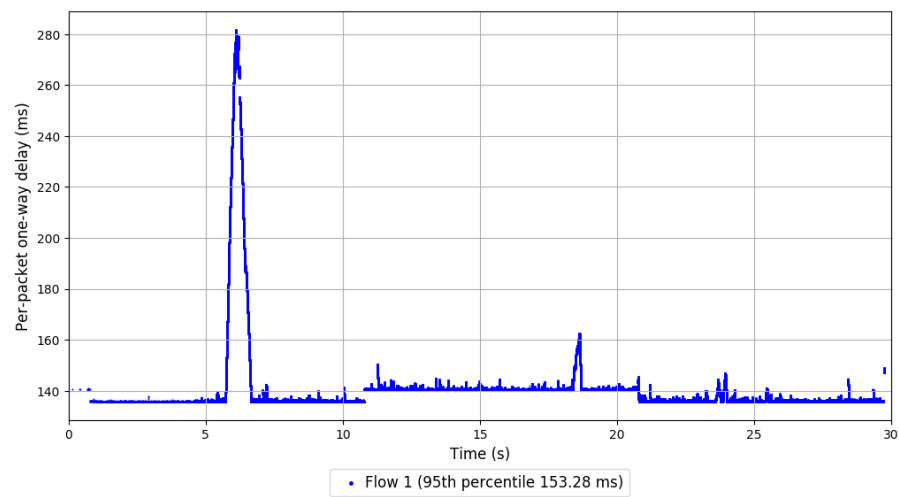
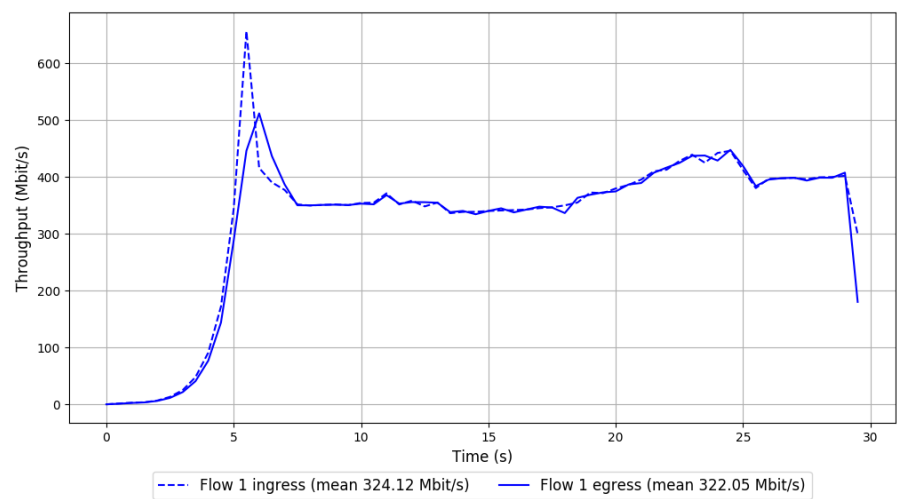
-- Flow 1:

Average throughput: 322.05 Mbit/s

95th percentile per-packet one-way delay: 153.282 ms

Loss rate: 1.56%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-06 10:36:01

End at: 2018-03-06 10:36:31

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.77 Mbit/s

95th percentile per-packet one-way delay: 135.370 ms

Loss rate: 2.02%

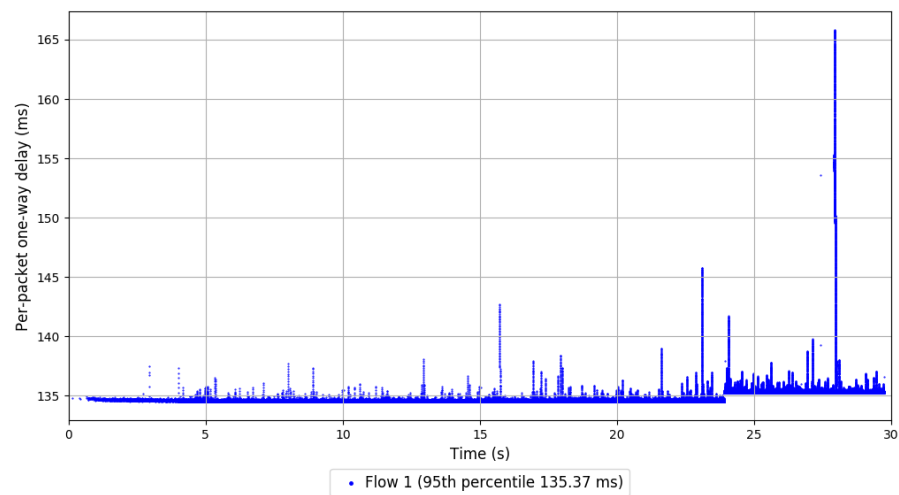
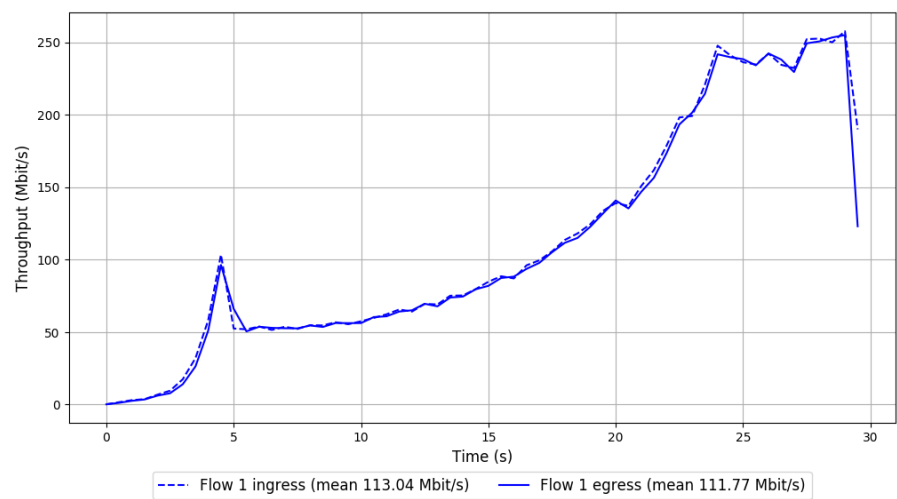
-- Flow 1:

Average throughput: 111.77 Mbit/s

95th percentile per-packet one-way delay: 135.370 ms

Loss rate: 2.02%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-06 10:52:08

End at: 2018-03-06 10:52:38

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.06 Mbit/s

95th percentile per-packet one-way delay: 143.243 ms

Loss rate: 1.45%

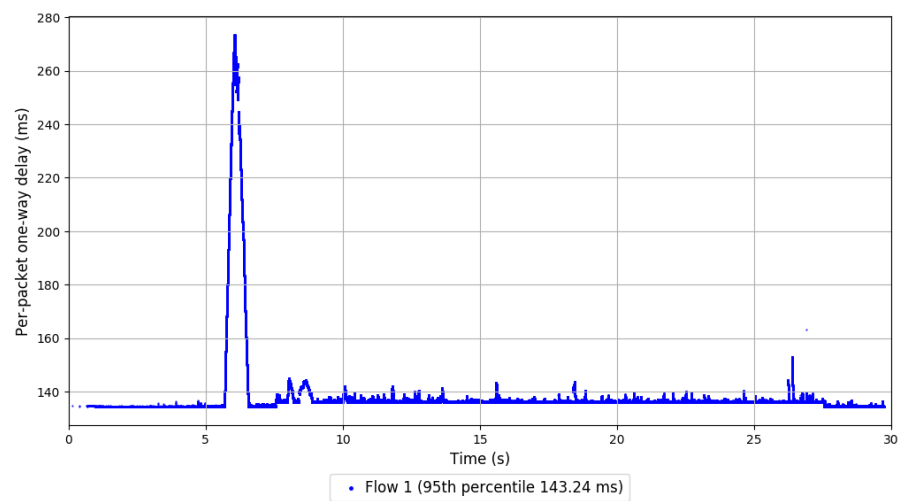
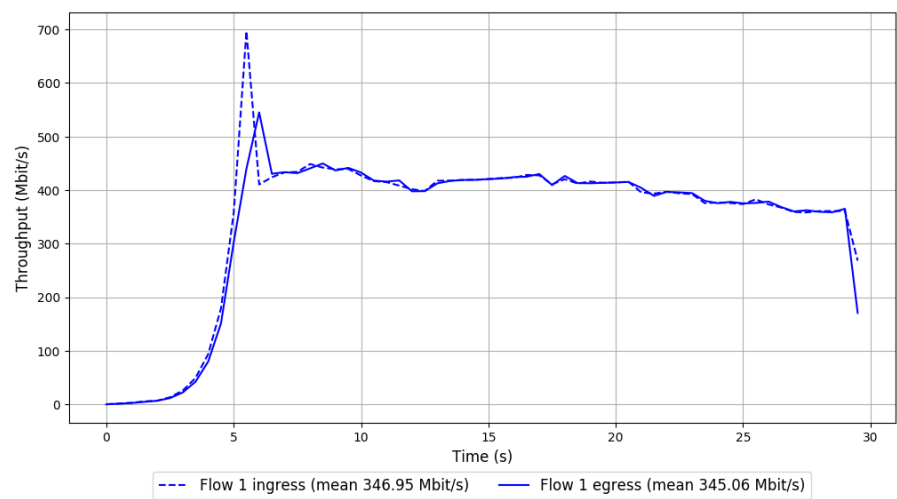
-- Flow 1:

Average throughput: 345.06 Mbit/s

95th percentile per-packet one-way delay: 143.243 ms

Loss rate: 1.45%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-06 11:08:06

End at: 2018-03-06 11:08:36

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.35 Mbit/s

95th percentile per-packet one-way delay: 147.730 ms

Loss rate: 1.62%

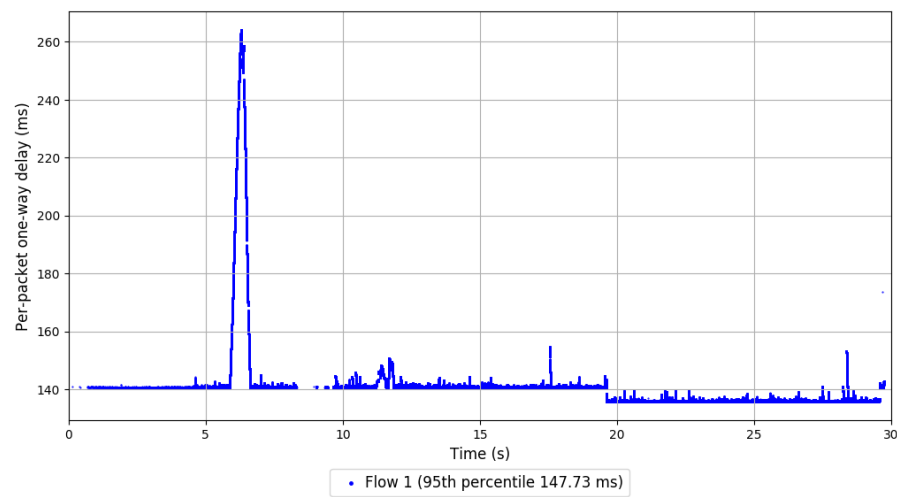
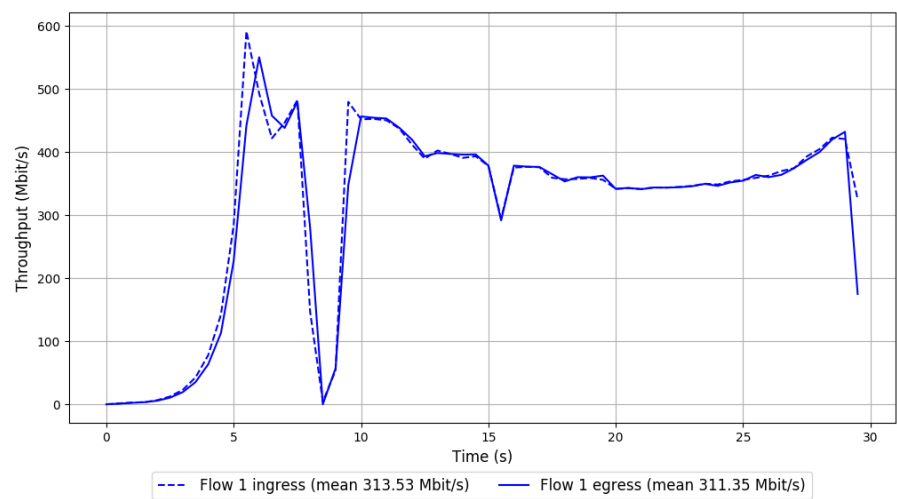
-- Flow 1:

Average throughput: 311.35 Mbit/s

95th percentile per-packet one-way delay: 147.730 ms

Loss rate: 1.62%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-06 11:23:55

End at: 2018-03-06 11:24:25

Below is generated by plot.py at 2018-03-06 15:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.03 Mbit/s

95th percentile per-packet one-way delay: 187.285 ms

Loss rate: 2.05%

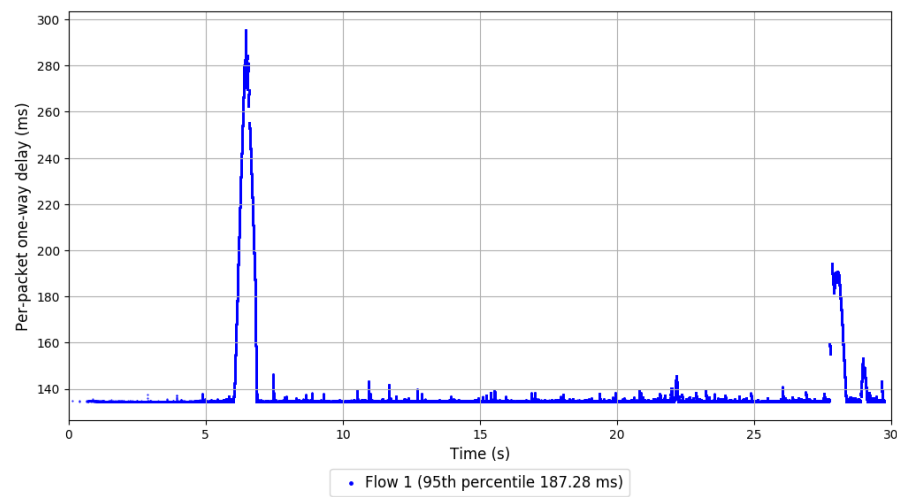
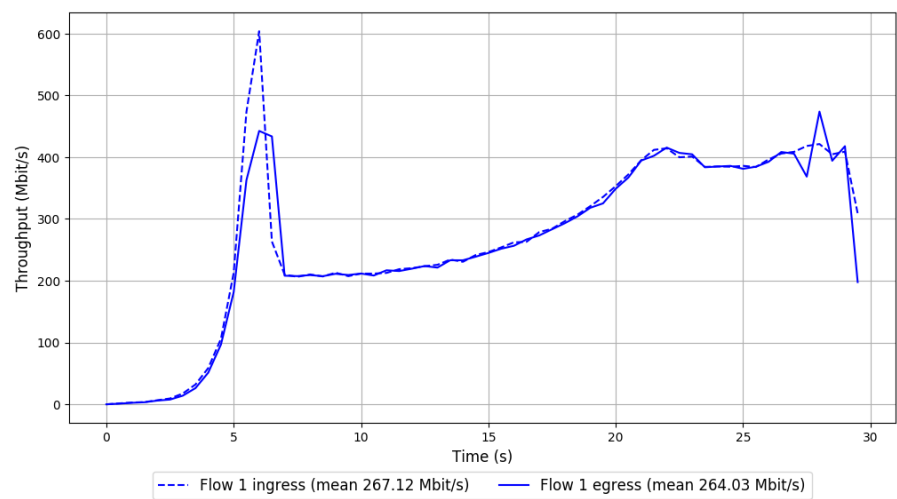
-- Flow 1:

Average throughput: 264.03 Mbit/s

95th percentile per-packet one-way delay: 187.285 ms

Loss rate: 2.05%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-06 11:40:09

End at: 2018-03-06 11:40:39

Below is generated by plot.py at 2018-03-06 15:40:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.83 Mbit/s

95th percentile per-packet one-way delay: 150.615 ms

Loss rate: 0.97%

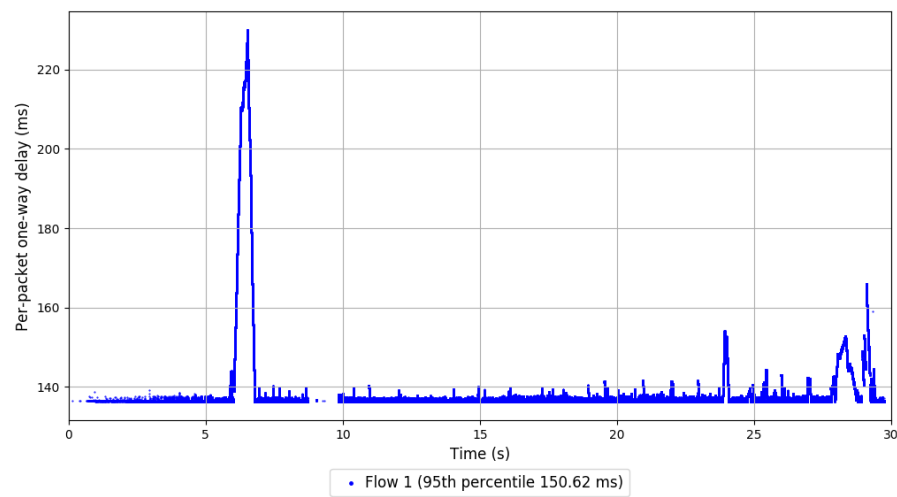
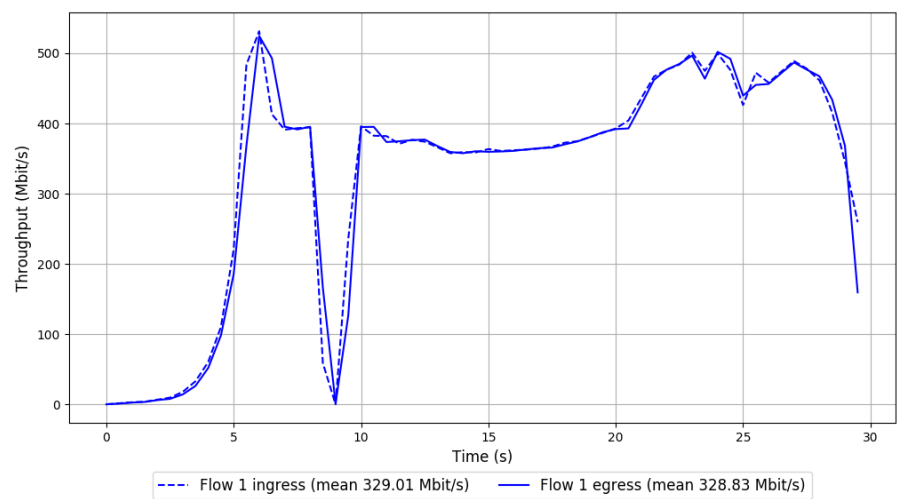
-- Flow 1:

Average throughput: 328.83 Mbit/s

95th percentile per-packet one-way delay: 150.615 ms

Loss rate: 0.97%

Run 10: Report of Vivace-latency — Data Link

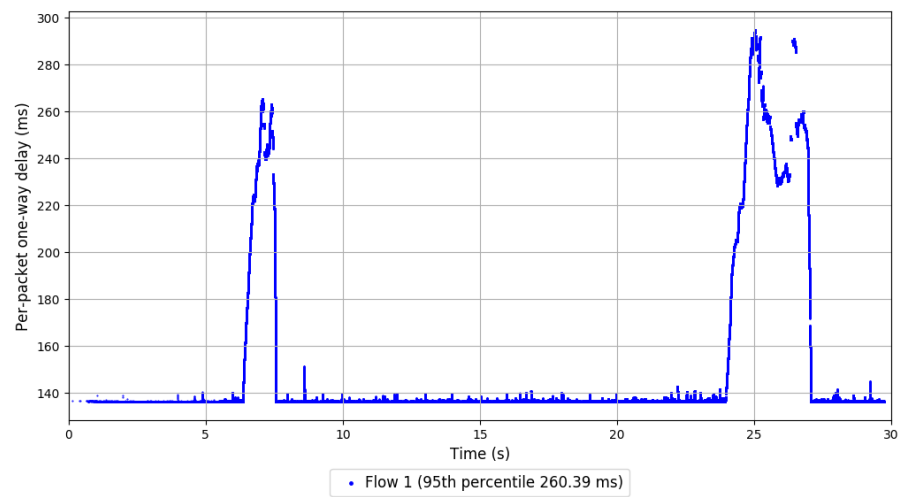
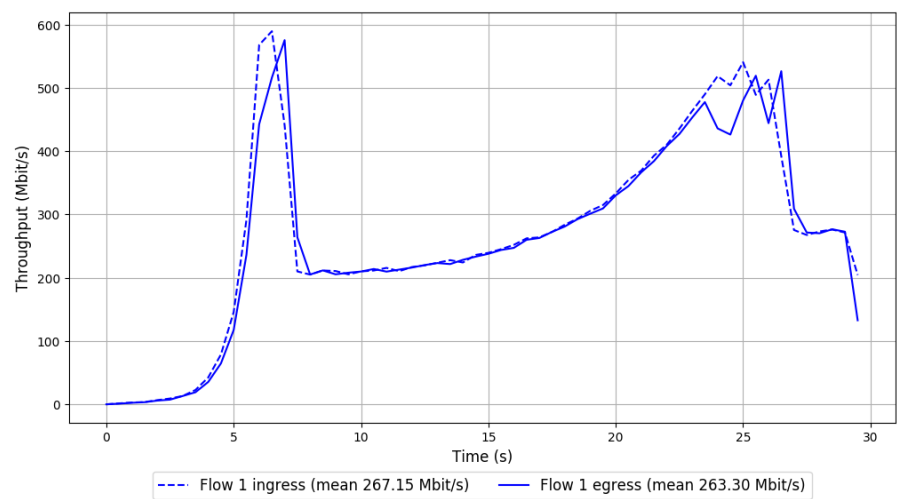


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-06 09:26:36
End at: 2018-03-06 09:27:06

# Below is generated by plot.py at 2018-03-06 15:40:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 263.30 Mbit/s
95th percentile per-packet one-way delay: 260.388 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 263.30 Mbit/s
95th percentile per-packet one-way delay: 260.388 ms
Loss rate: 2.34%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-06 09:42:35

End at: 2018-03-06 09:43:05

Below is generated by plot.py at 2018-03-06 15:40:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.90 Mbit/s

95th percentile per-packet one-way delay: 193.014 ms

Loss rate: 2.07%

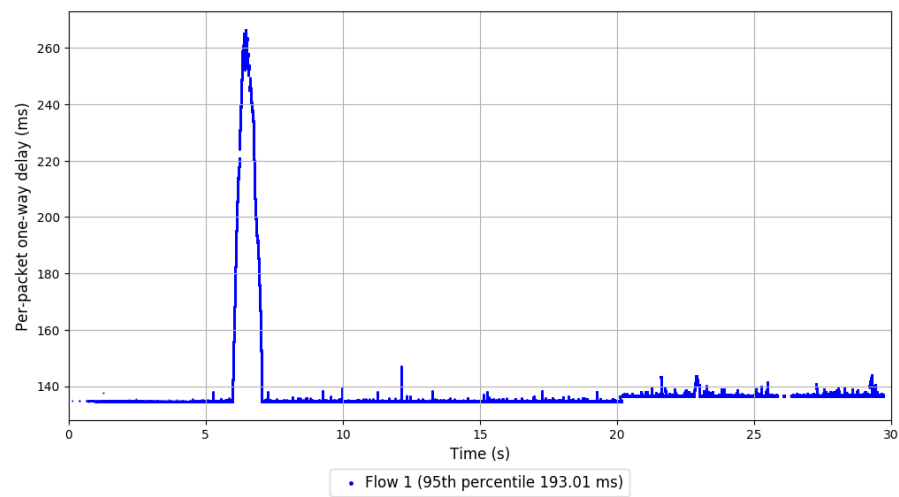
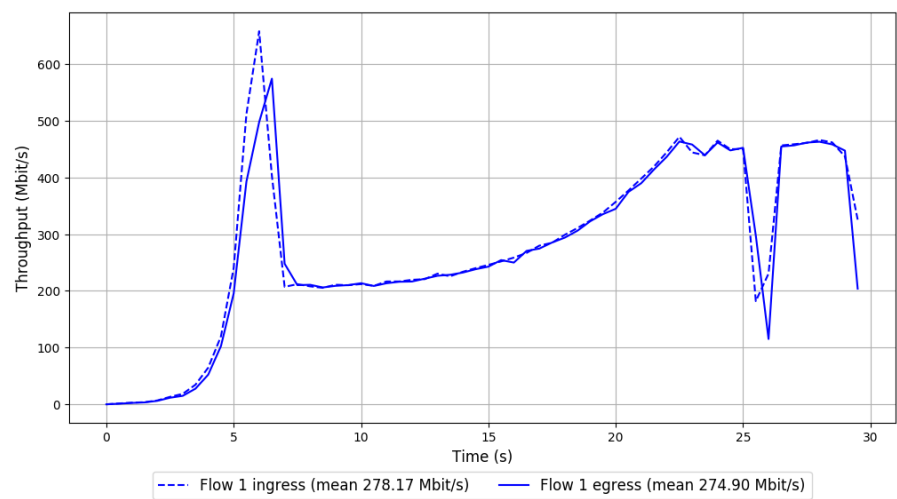
-- Flow 1:

Average throughput: 274.90 Mbit/s

95th percentile per-packet one-way delay: 193.014 ms

Loss rate: 2.07%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-06 09:58:53

End at: 2018-03-06 09:59:23

Below is generated by plot.py at 2018-03-06 15:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.90 Mbit/s

95th percentile per-packet one-way delay: 271.706 ms

Loss rate: 3.44%

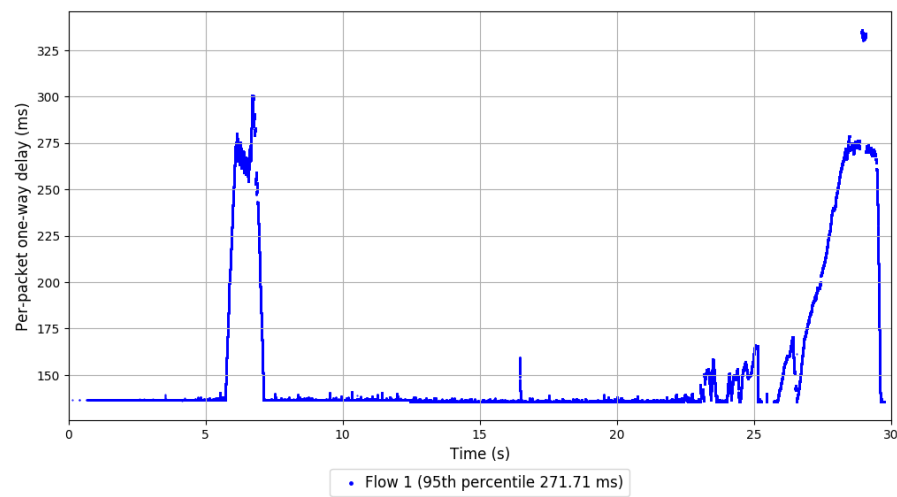
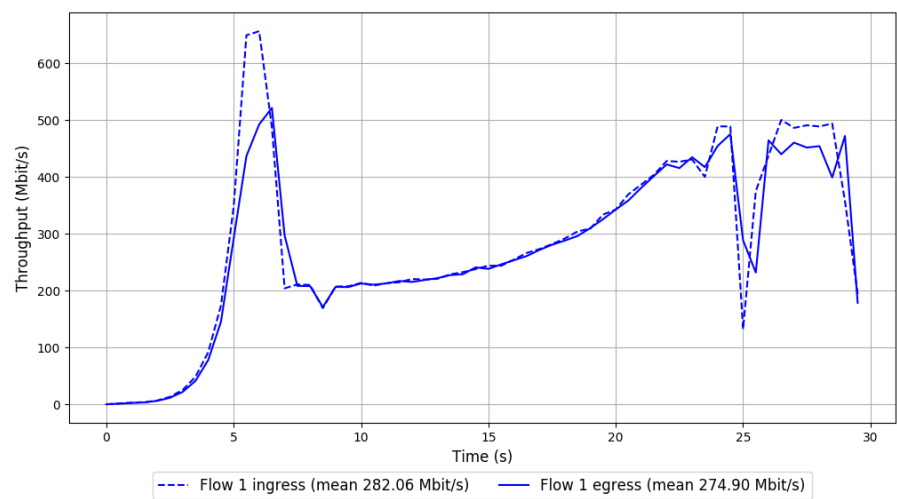
-- Flow 1:

Average throughput: 274.90 Mbit/s

95th percentile per-packet one-way delay: 271.706 ms

Loss rate: 3.44%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-06 10:15:01

End at: 2018-03-06 10:15:31

Below is generated by plot.py at 2018-03-06 15:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.81 Mbit/s

95th percentile per-packet one-way delay: 261.470 ms

Loss rate: 4.00%

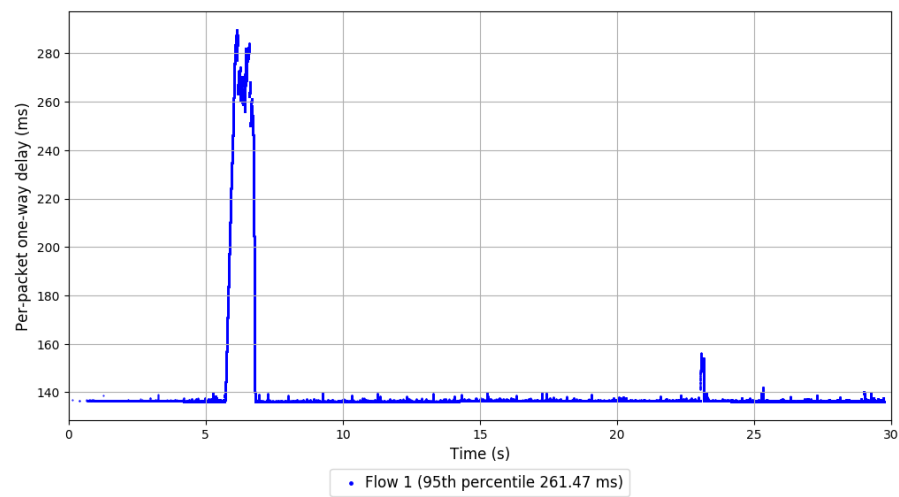
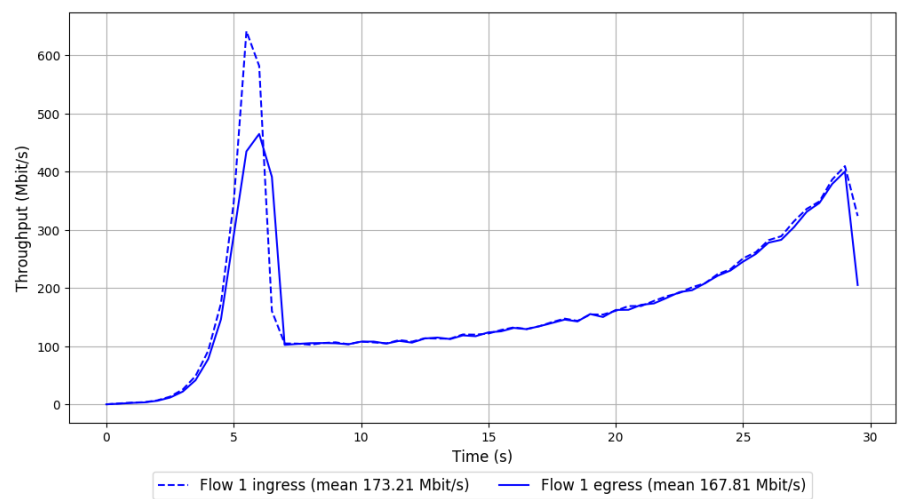
-- Flow 1:

Average throughput: 167.81 Mbit/s

95th percentile per-packet one-way delay: 261.470 ms

Loss rate: 4.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-06 10:30:50

End at: 2018-03-06 10:31:20

Below is generated by plot.py at 2018-03-06 15:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.32 Mbit/s

95th percentile per-packet one-way delay: 240.297 ms

Loss rate: 1.18%

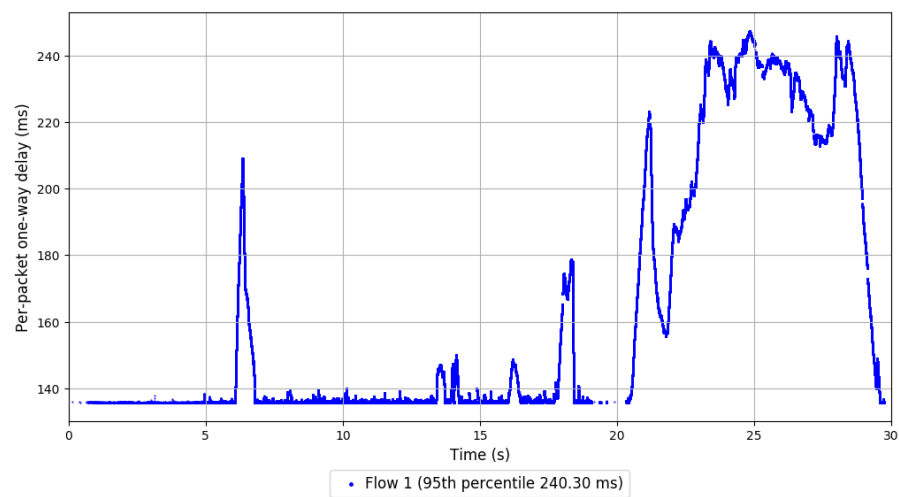
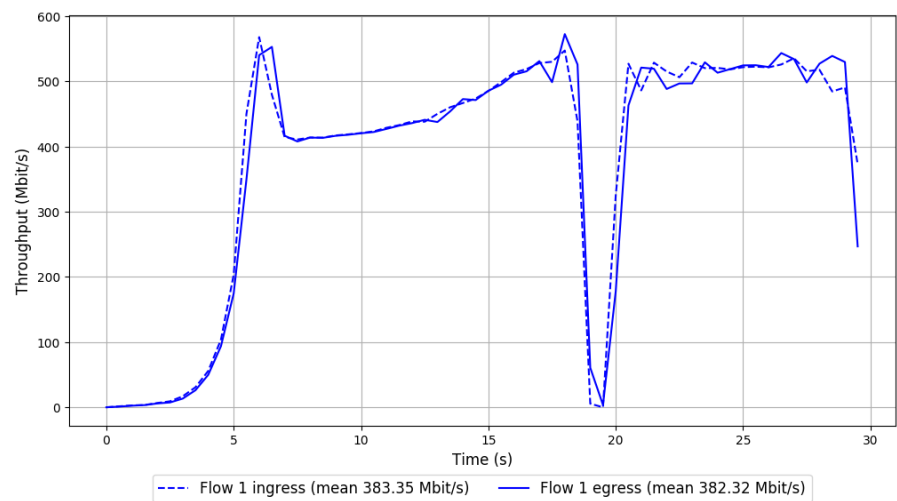
-- Flow 1:

Average throughput: 382.32 Mbit/s

95th percentile per-packet one-way delay: 240.297 ms

Loss rate: 1.18%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-06 10:47:00

End at: 2018-03-06 10:47:30

Below is generated by plot.py at 2018-03-06 15:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.71 Mbit/s

95th percentile per-packet one-way delay: 277.776 ms

Loss rate: 4.18%

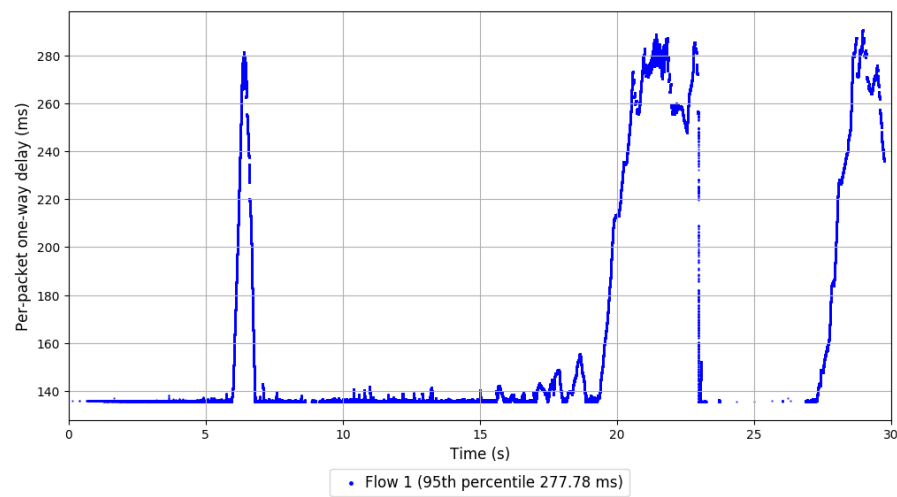
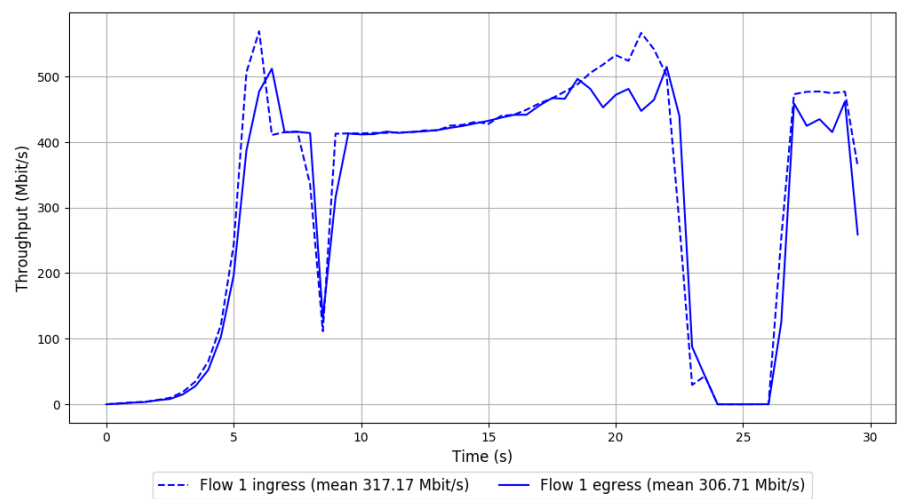
-- Flow 1:

Average throughput: 306.71 Mbit/s

95th percentile per-packet one-way delay: 277.776 ms

Loss rate: 4.18%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-06 11:03:07

End at: 2018-03-06 11:03:37

Below is generated by plot.py at 2018-03-06 15:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.93 Mbit/s

95th percentile per-packet one-way delay: 277.884 ms

Loss rate: 3.76%

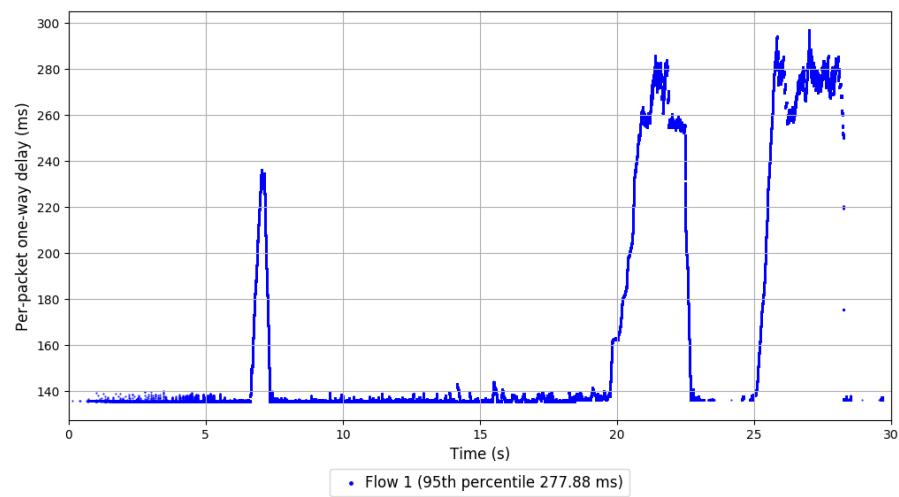
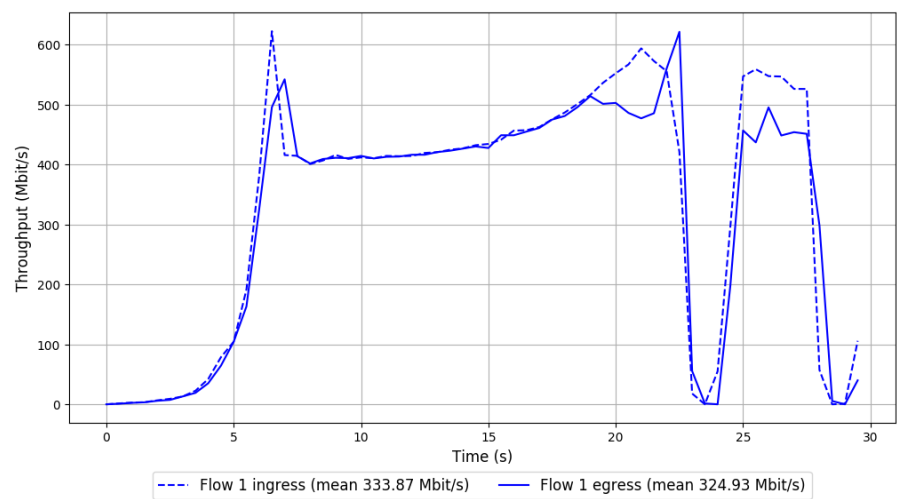
-- Flow 1:

Average throughput: 324.93 Mbit/s

95th percentile per-packet one-way delay: 277.884 ms

Loss rate: 3.76%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-06 11:18:59

End at: 2018-03-06 11:19:29

Below is generated by plot.py at 2018-03-06 15:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.57 Mbit/s

95th percentile per-packet one-way delay: 280.063 ms

Loss rate: 6.90%

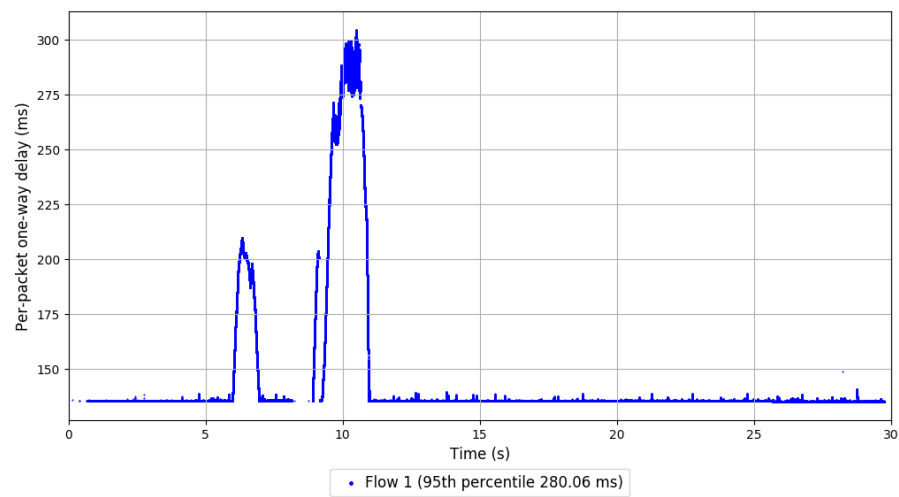
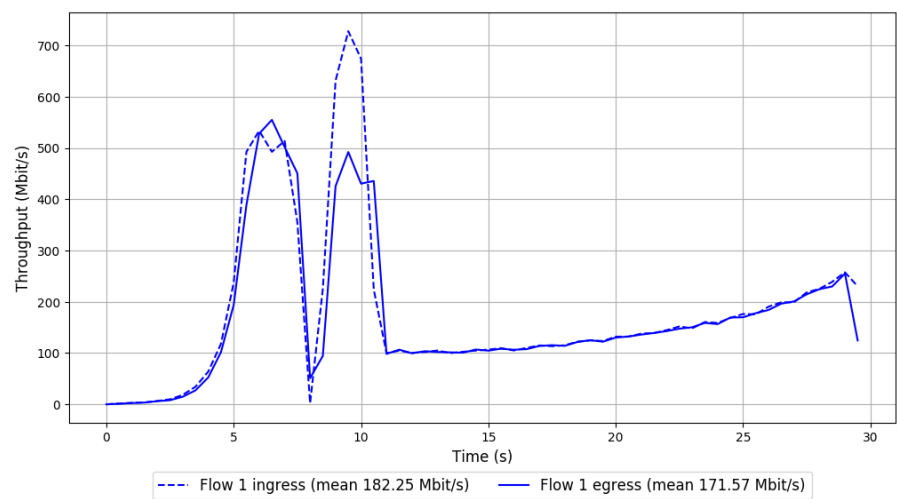
-- Flow 1:

Average throughput: 171.57 Mbit/s

95th percentile per-packet one-way delay: 280.063 ms

Loss rate: 6.90%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-06 11:35:06

End at: 2018-03-06 11:35:36

Below is generated by plot.py at 2018-03-06 15:46:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.28 Mbit/s

95th percentile per-packet one-way delay: 275.374 ms

Loss rate: 3.19%

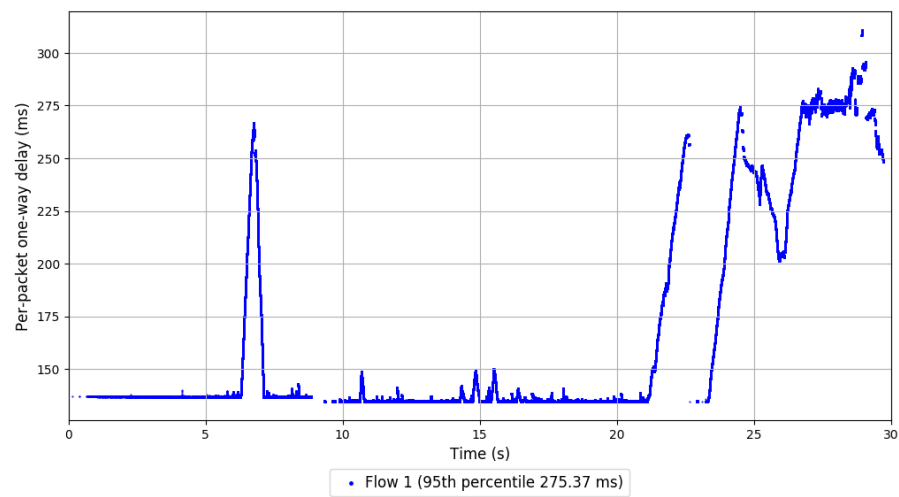
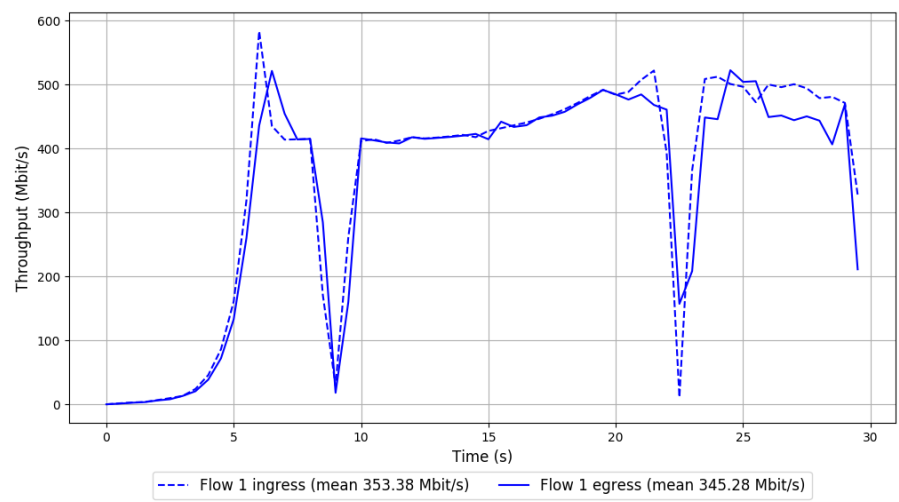
-- Flow 1:

Average throughput: 345.28 Mbit/s

95th percentile per-packet one-way delay: 275.374 ms

Loss rate: 3.19%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-06 11:51:06

End at: 2018-03-06 11:51:37

Below is generated by plot.py at 2018-03-06 15:46:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 288.45 Mbit/s

95th percentile per-packet one-way delay: 291.267 ms

Loss rate: 6.73%

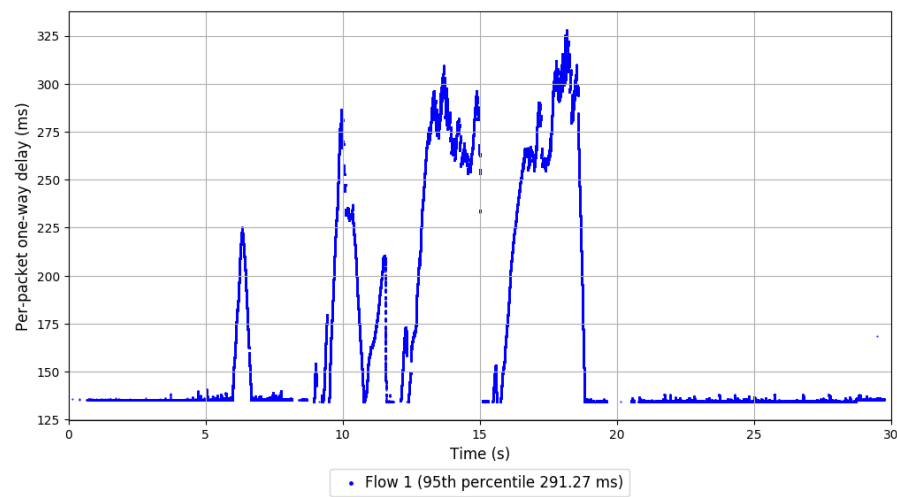
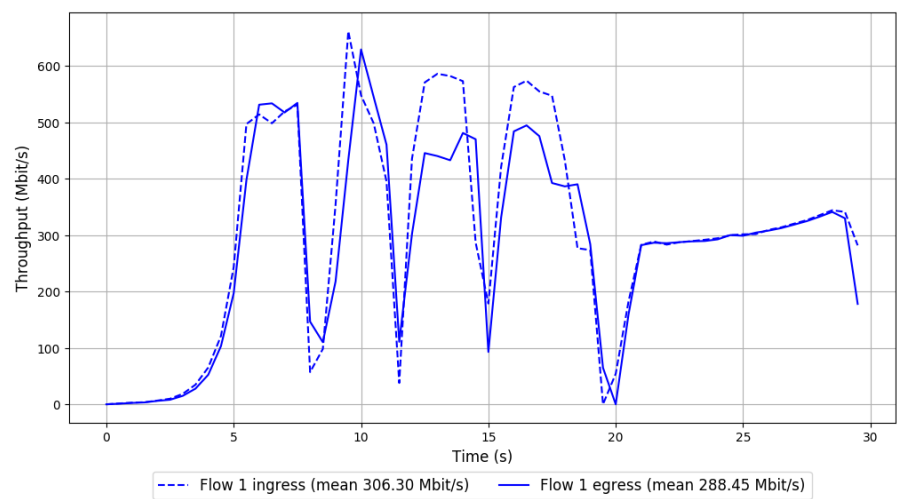
-- Flow 1:

Average throughput: 288.45 Mbit/s

95th percentile per-packet one-way delay: 291.267 ms

Loss rate: 6.73%

Run 10: Report of Vivace-loss — Data Link

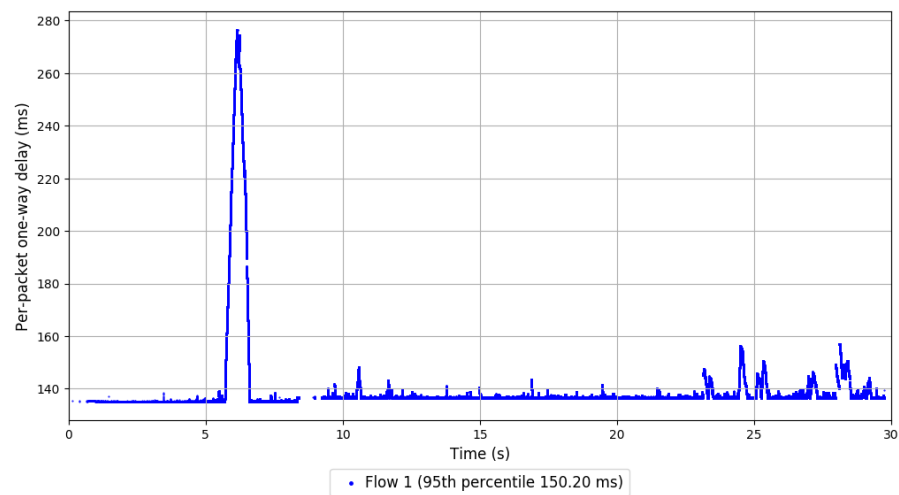
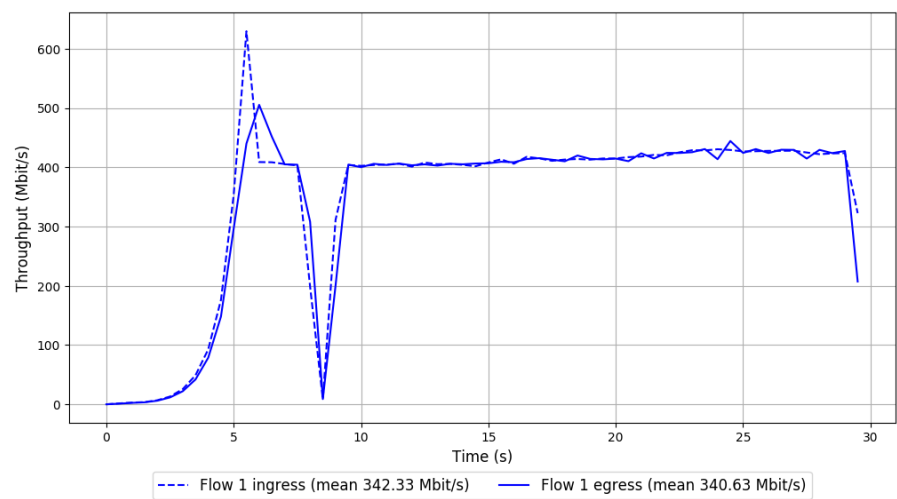


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-06 09:25:27
End at: 2018-03-06 09:25:57

# Below is generated by plot.py at 2018-03-06 15:47:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 340.63 Mbit/s
95th percentile per-packet one-way delay: 150.199 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 340.63 Mbit/s
95th percentile per-packet one-way delay: 150.199 ms
Loss rate: 1.39%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-06 09:41:31

End at: 2018-03-06 09:42:01

Below is generated by plot.py at 2018-03-06 15:47:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.42 Mbit/s

95th percentile per-packet one-way delay: 180.303 ms

Loss rate: 1.55%

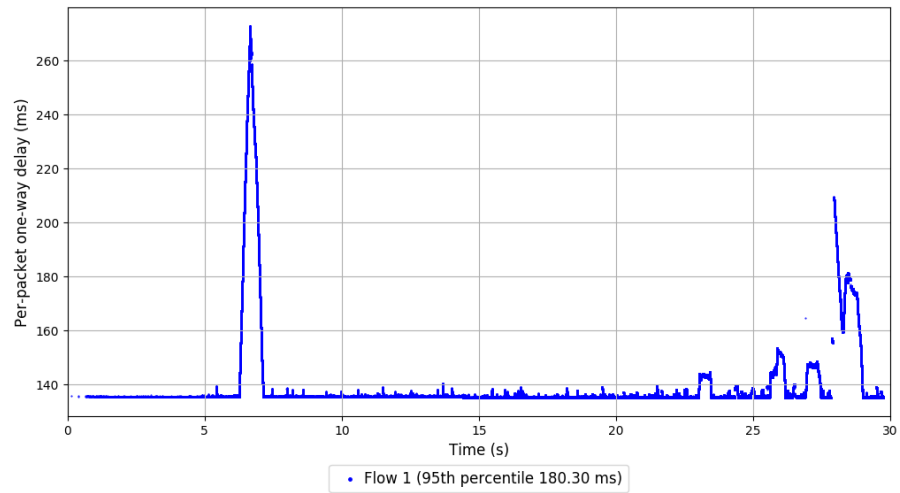
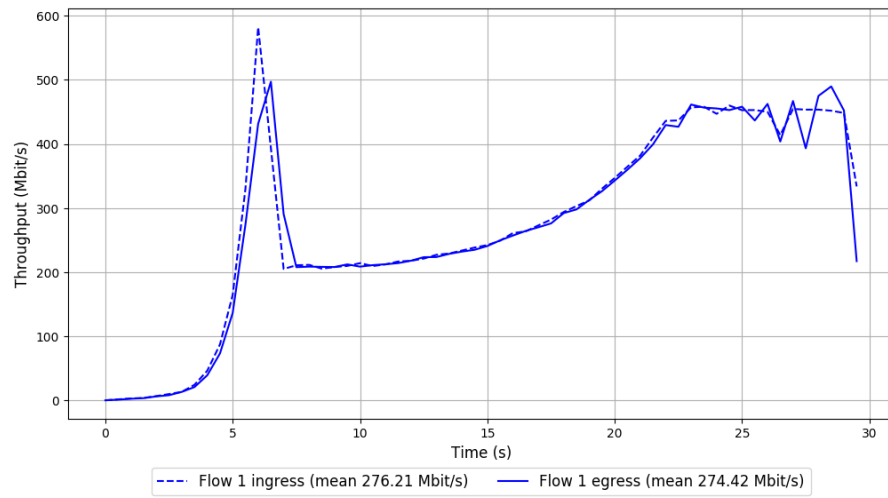
-- Flow 1:

Average throughput: 274.42 Mbit/s

95th percentile per-packet one-way delay: 180.303 ms

Loss rate: 1.55%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-06 09:57:44

End at: 2018-03-06 09:58:14

Below is generated by plot.py at 2018-03-06 15:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.67 Mbit/s

95th percentile per-packet one-way delay: 230.607 ms

Loss rate: 0.94%

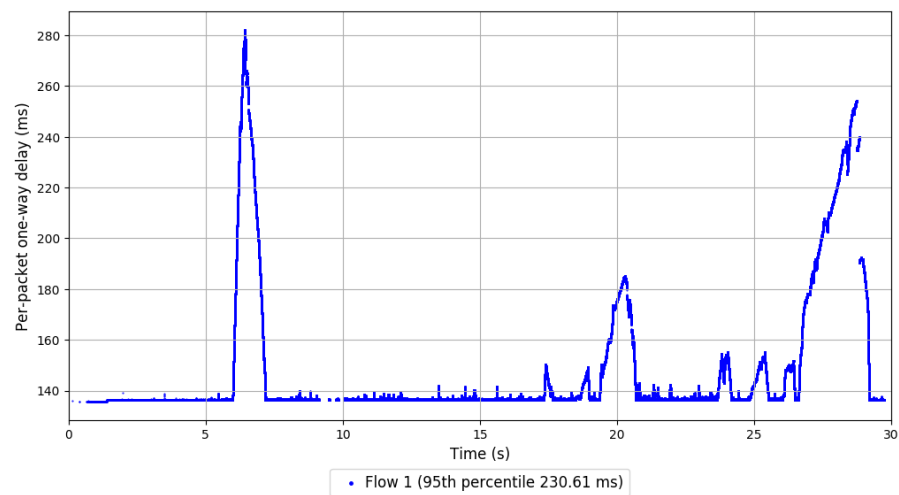
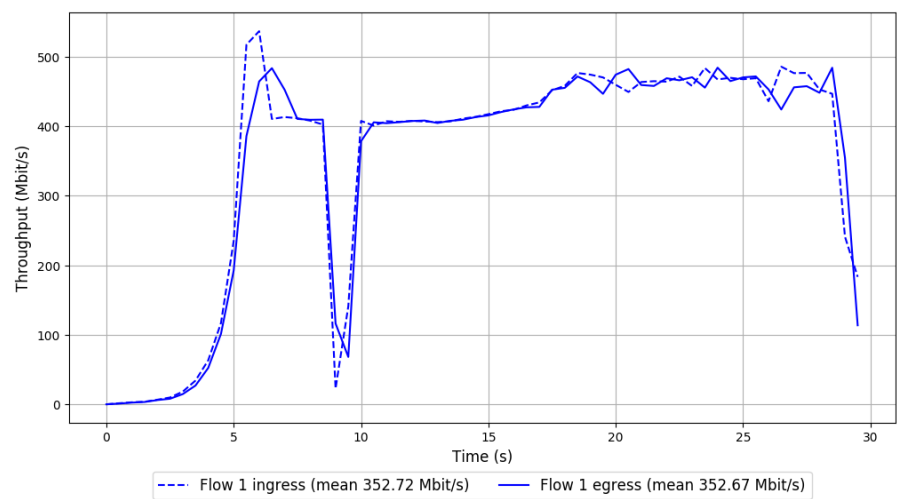
-- Flow 1:

Average throughput: 352.67 Mbit/s

95th percentile per-packet one-way delay: 230.607 ms

Loss rate: 0.94%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-06 10:13:54

End at: 2018-03-06 10:14:24

Below is generated by plot.py at 2018-03-06 15:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.10 Mbit/s

95th percentile per-packet one-way delay: 142.289 ms

Loss rate: 1.14%

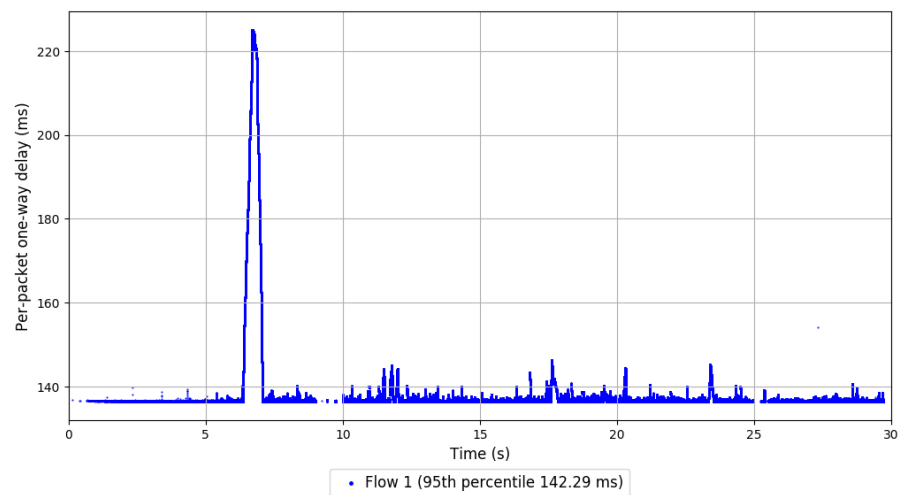
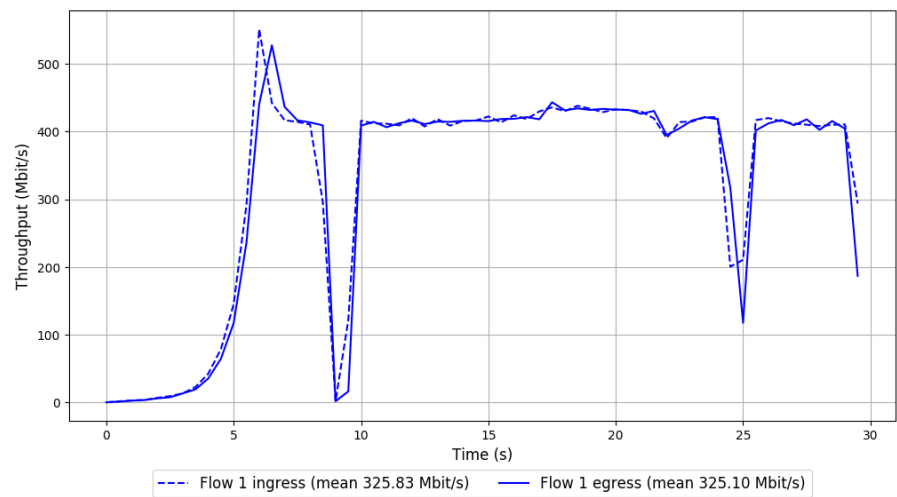
-- Flow 1:

Average throughput: 325.10 Mbit/s

95th percentile per-packet one-way delay: 142.289 ms

Loss rate: 1.14%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-06 10:29:40

End at: 2018-03-06 10:30:10

Below is generated by plot.py at 2018-03-06 15:50:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.49 Mbit/s

95th percentile per-packet one-way delay: 140.255 ms

Loss rate: 1.95%

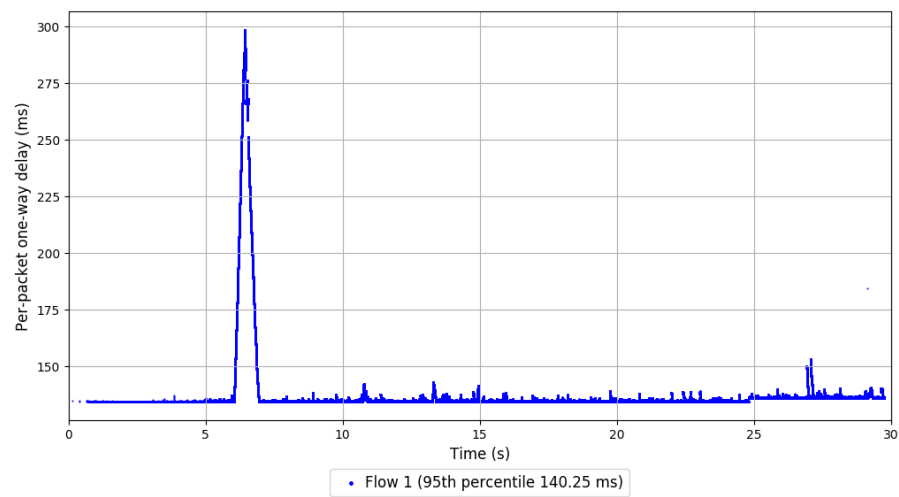
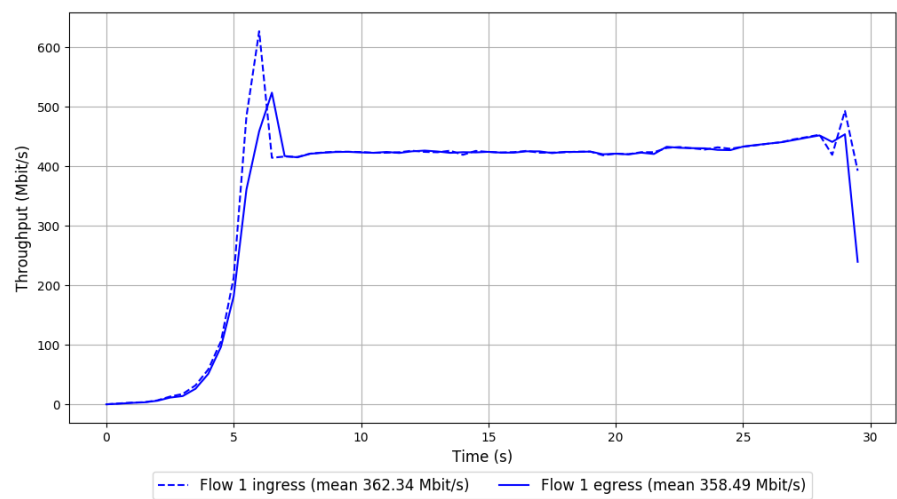
-- Flow 1:

Average throughput: 358.49 Mbit/s

95th percentile per-packet one-way delay: 140.255 ms

Loss rate: 1.95%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-06 10:45:51

End at: 2018-03-06 10:46:21

Below is generated by plot.py at 2018-03-06 15:50:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.34 Mbit/s

95th percentile per-packet one-way delay: 148.542 ms

Loss rate: 1.43%

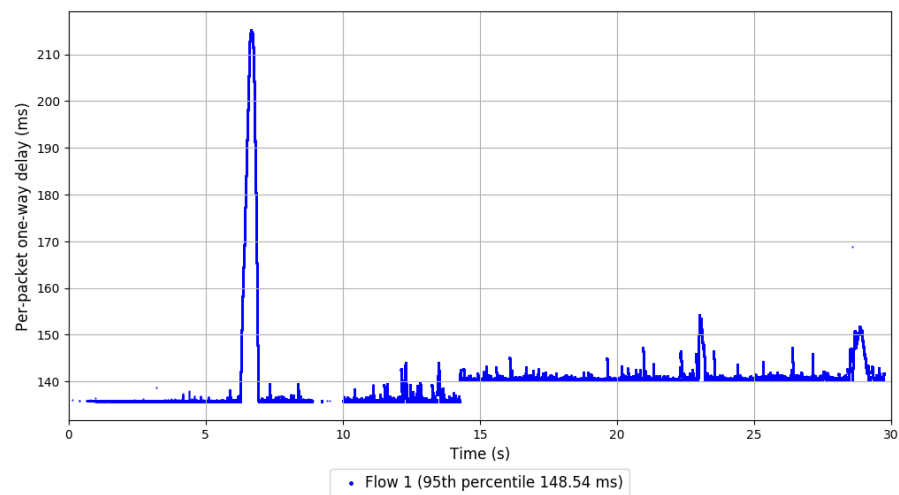
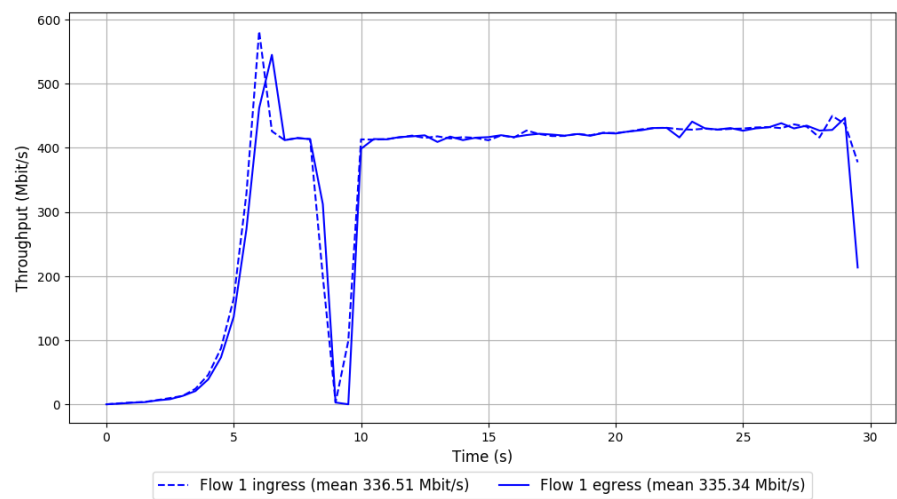
-- Flow 1:

Average throughput: 335.34 Mbit/s

95th percentile per-packet one-way delay: 148.542 ms

Loss rate: 1.43%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-06 11:01:57

End at: 2018-03-06 11:02:27

Below is generated by plot.py at 2018-03-06 15:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.94 Mbit/s

95th percentile per-packet one-way delay: 154.172 ms

Loss rate: 1.43%

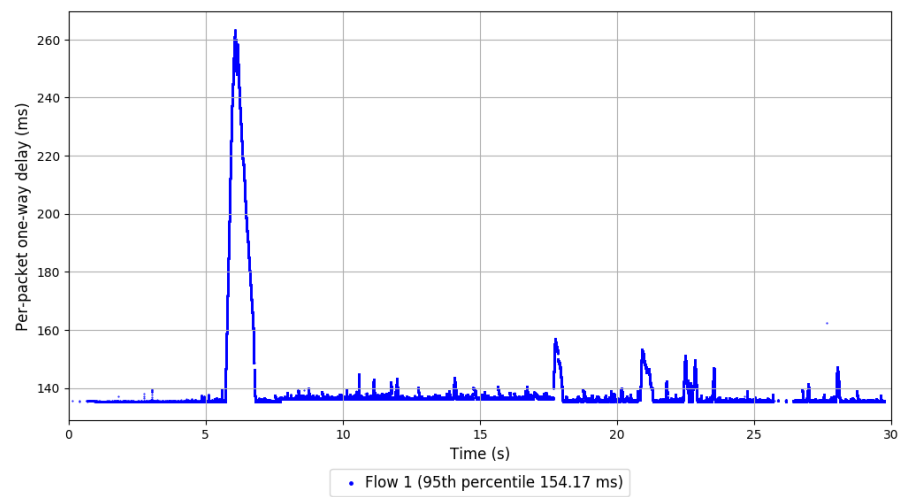
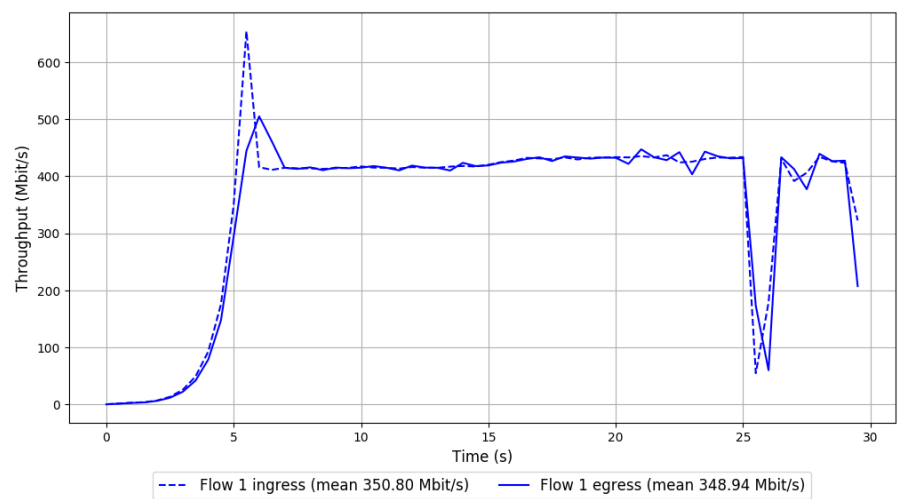
-- Flow 1:

Average throughput: 348.94 Mbit/s

95th percentile per-packet one-way delay: 154.172 ms

Loss rate: 1.43%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-06 11:17:51

End at: 2018-03-06 11:18:21

Below is generated by plot.py at 2018-03-06 15:51:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.79 Mbit/s

95th percentile per-packet one-way delay: 193.579 ms

Loss rate: 1.49%

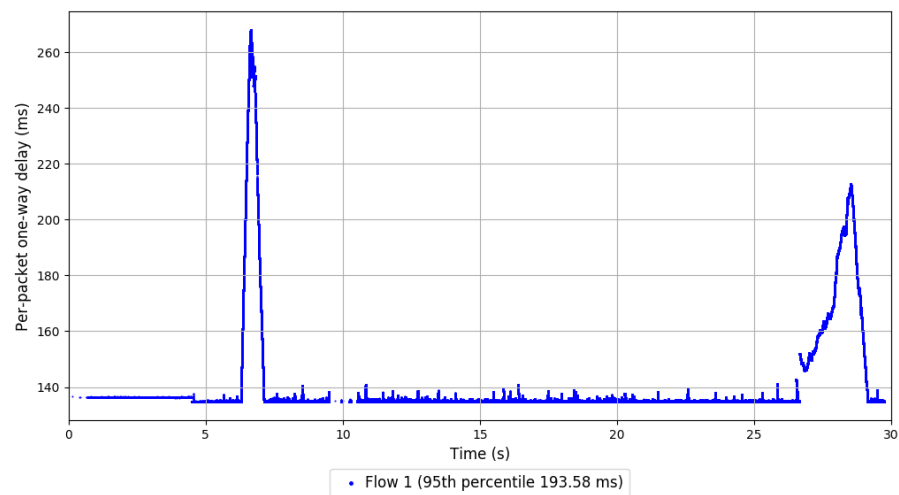
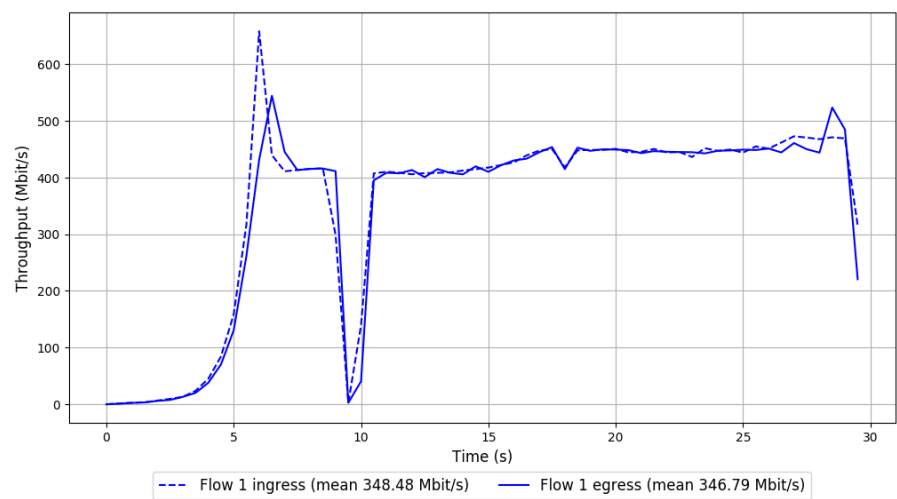
-- Flow 1:

Average throughput: 346.79 Mbit/s

95th percentile per-packet one-way delay: 193.579 ms

Loss rate: 1.49%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-06 11:33:57

End at: 2018-03-06 11:34:27

Below is generated by plot.py at 2018-03-06 15:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.29 Mbit/s

95th percentile per-packet one-way delay: 144.537 ms

Loss rate: 1.33%

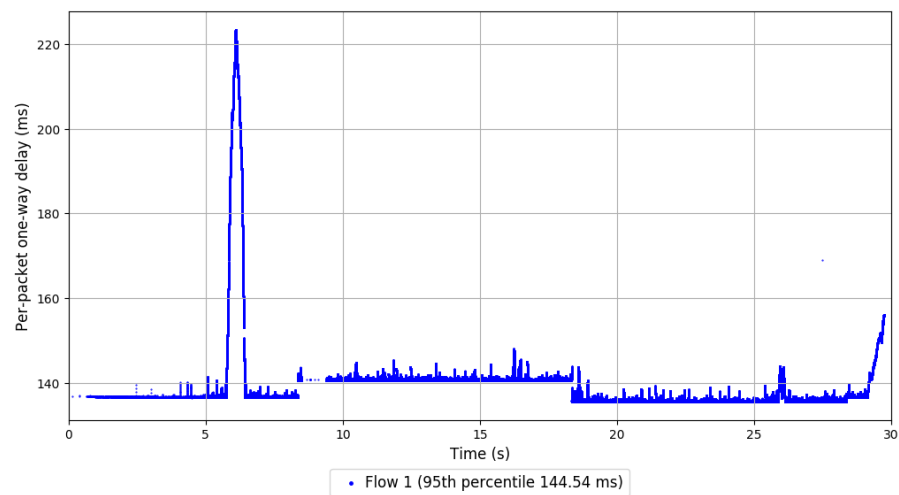
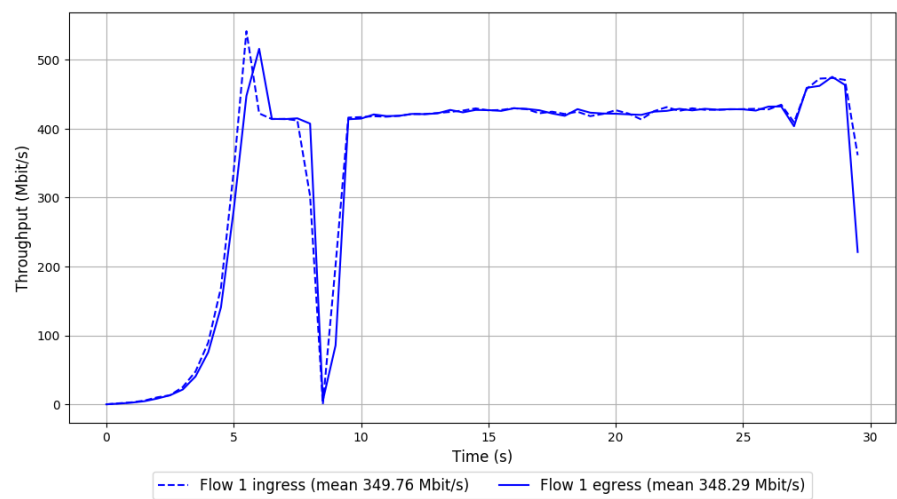
-- Flow 1:

Average throughput: 348.29 Mbit/s

95th percentile per-packet one-way delay: 144.537 ms

Loss rate: 1.33%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-03-06 11:49:58

End at: 2018-03-06 11:50:28

Below is generated by plot.py at 2018-03-06 15:51:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.93 Mbit/s

95th percentile per-packet one-way delay: 157.448 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 329.93 Mbit/s

95th percentile per-packet one-way delay: 157.448 ms

Loss rate: 1.19%

Run 10: Report of Vivace-LTE — Data Link

