

Pantheon Report

Generated at 2018-02-28 06:35:49 (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.

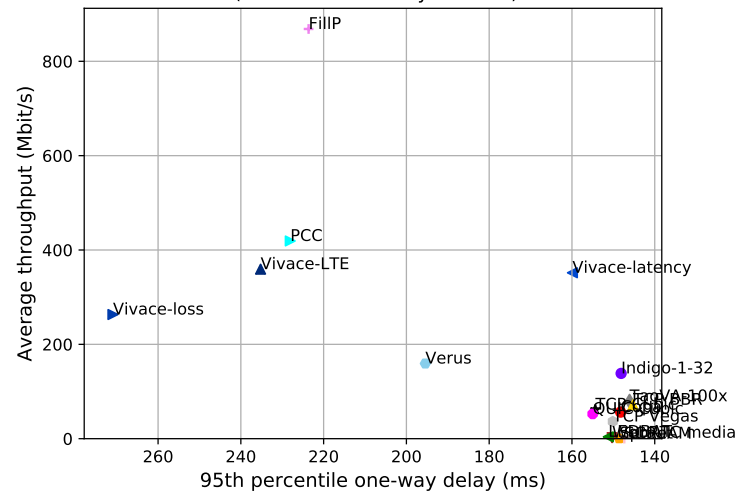
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

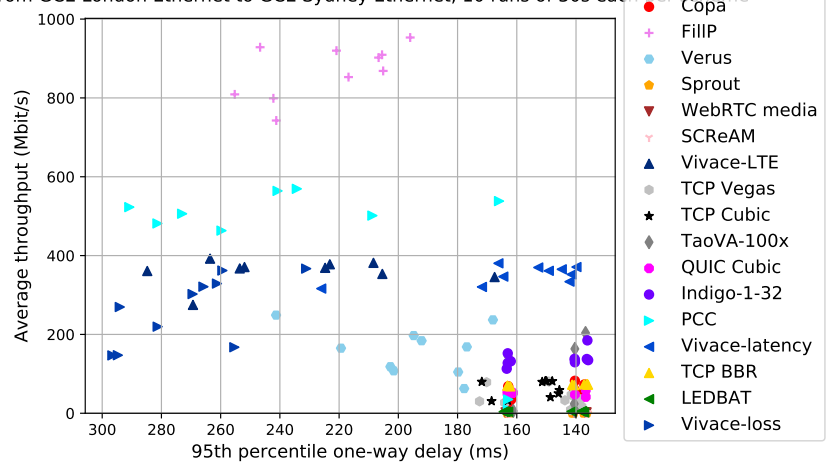
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
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	71.86	145.24	0.92
TCP Cubic	10	61.63	154.33	1.11
LEDBAT	10	3.94	151.23	1.99
PCC	10	419.18	228.06	3.17
QUIC Cubic	10	52.48	154.99	1.21
SCReAM	10	0.21	147.36	0.89
WebRTC media	10	2.06	150.30	1.06
Sprout	10	0.34	148.56	0.89
TaoVA-100x	7	79.31	146.09	0.71
TCP Vegas	10	36.44	150.14	0.97
Verus	10	159.36	195.43	1.04
Copa	10	56.36	148.24	1.37
FillP	10	868.55	223.63	4.93
Indigo-1-32	10	138.39	148.12	0.94
Vivace-latency	10	351.71	159.89	1.41
Vivace-loss	10	263.22	270.90	7.31
Vivace-LTE	10	359.41	235.23	1.95

Run 1: Statistics of TCP BBR

Start at: 2018-02-28 00:05:38

End at: 2018-02-28 00:06:08

Below is generated by plot.py at 2018-02-28 05:29:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 141.293 ms

Loss rate: 0.98%

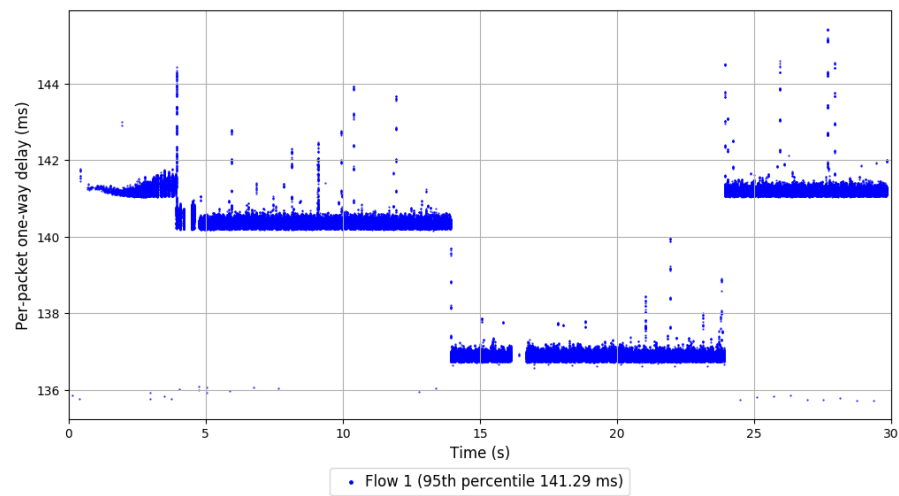
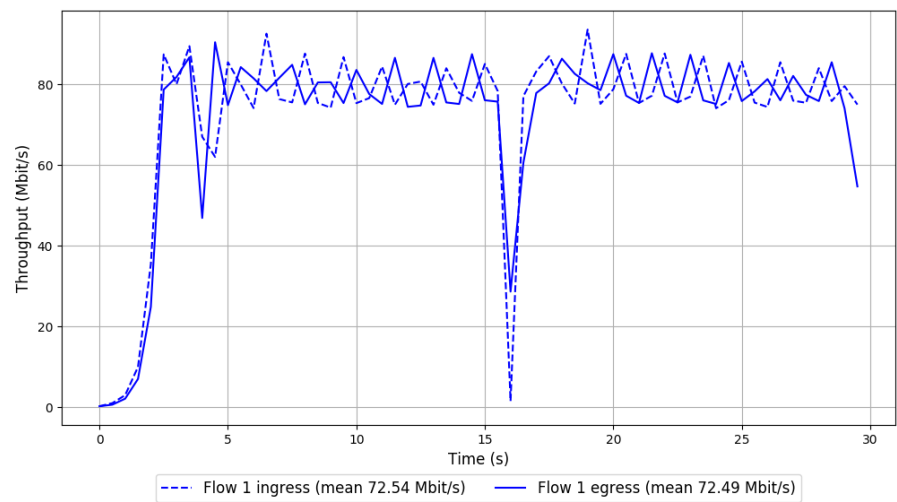
-- Flow 1:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 141.293 ms

Loss rate: 0.98%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-28 00:21:59

End at: 2018-02-28 00:22:29

Below is generated by plot.py at 2018-02-28 05:29:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.36 Mbit/s

95th percentile per-packet one-way delay: 140.581 ms

Loss rate: 1.05%

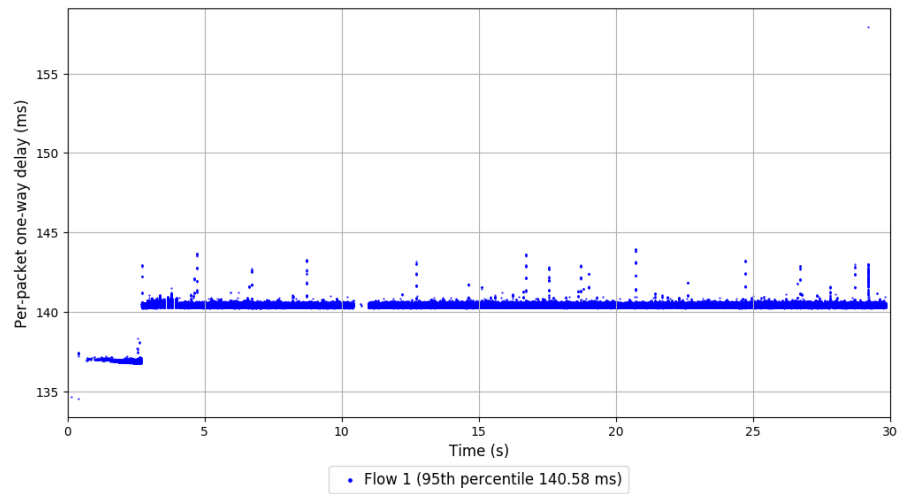
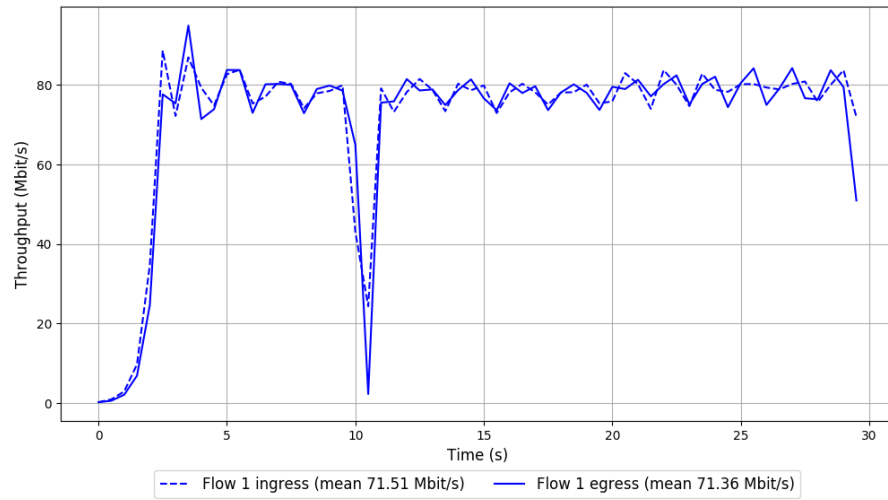
-- Flow 1:

Average throughput: 71.36 Mbit/s

95th percentile per-packet one-way delay: 140.581 ms

Loss rate: 1.05%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-28 00:38:16

End at: 2018-02-28 00:38:46

Below is generated by plot.py at 2018-02-28 05:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 136.298 ms

Loss rate: 0.96%

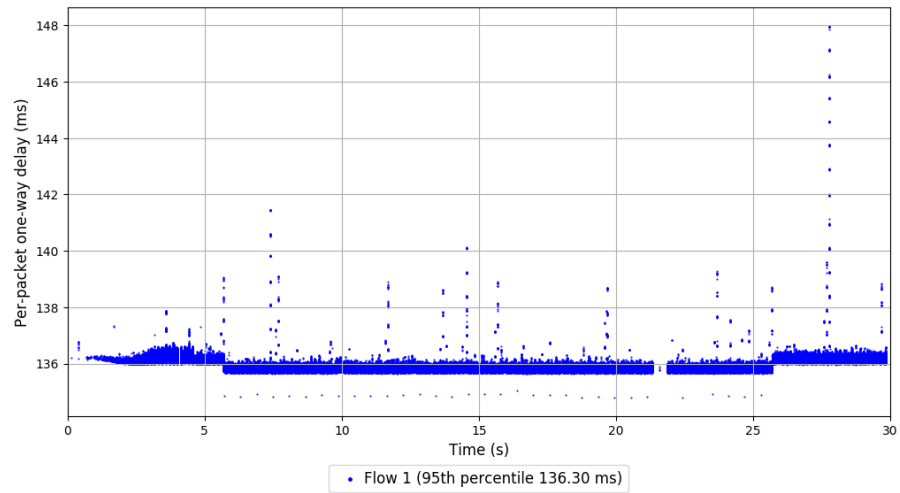
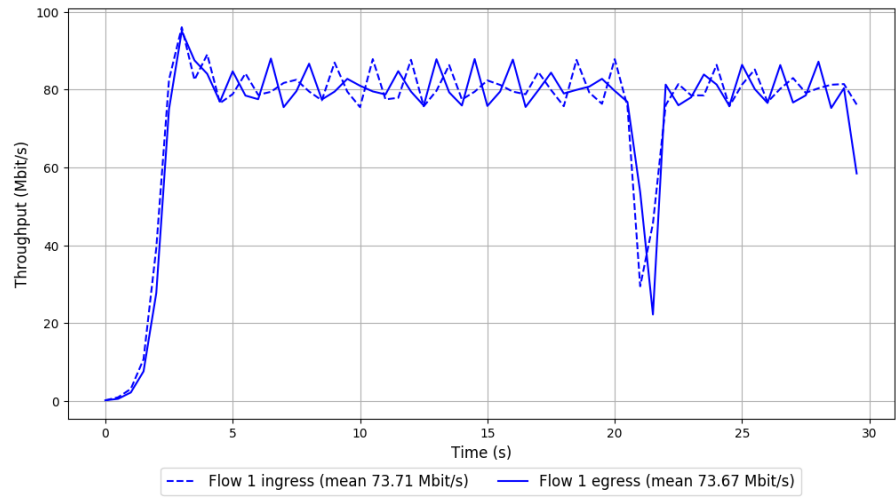
-- Flow 1:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 136.298 ms

Loss rate: 0.96%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-28 00:54:19

End at: 2018-02-28 00:54:49

Below is generated by plot.py at 2018-02-28 05:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 136.285 ms

Loss rate: 0.97%

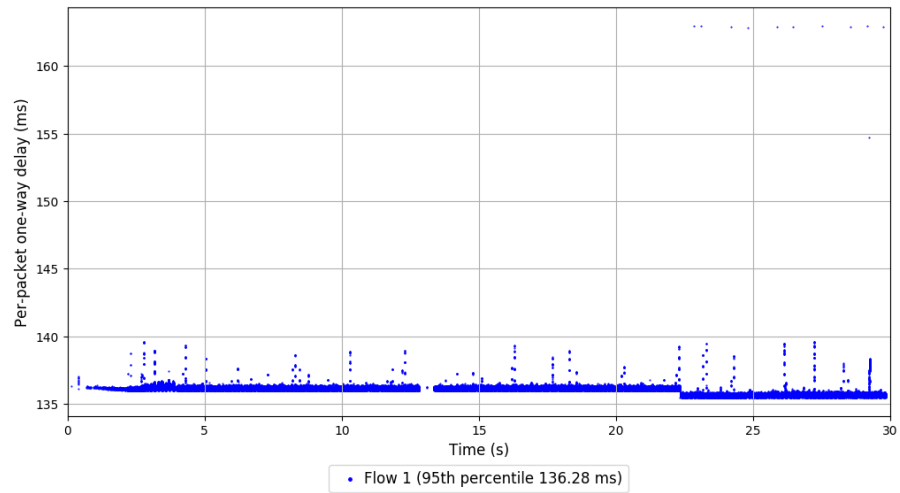
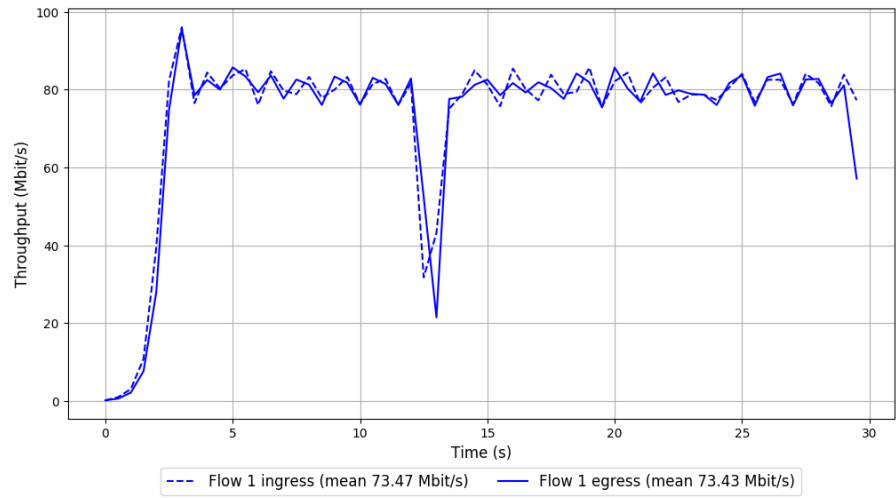
-- Flow 1:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 136.285 ms

Loss rate: 0.97%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-28 01:09:40

End at: 2018-02-28 01:10:10

Below is generated by plot.py at 2018-02-28 05:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 163.126 ms

Loss rate: 1.00%

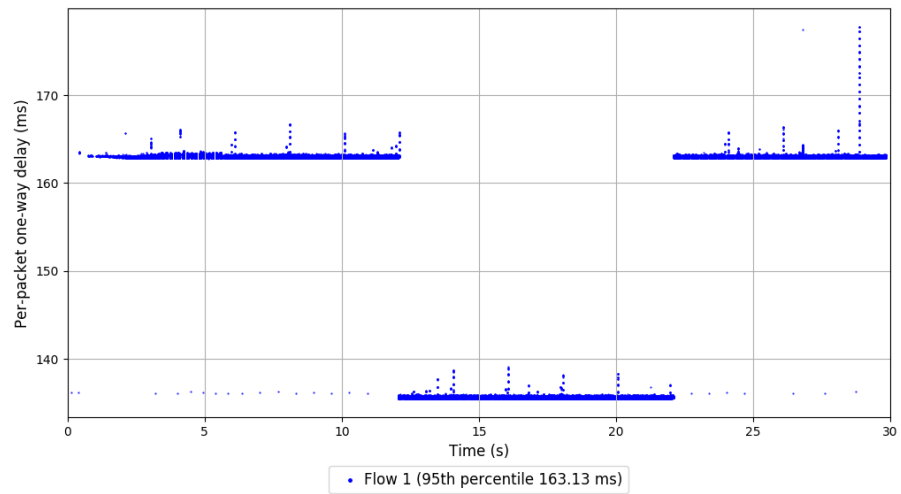
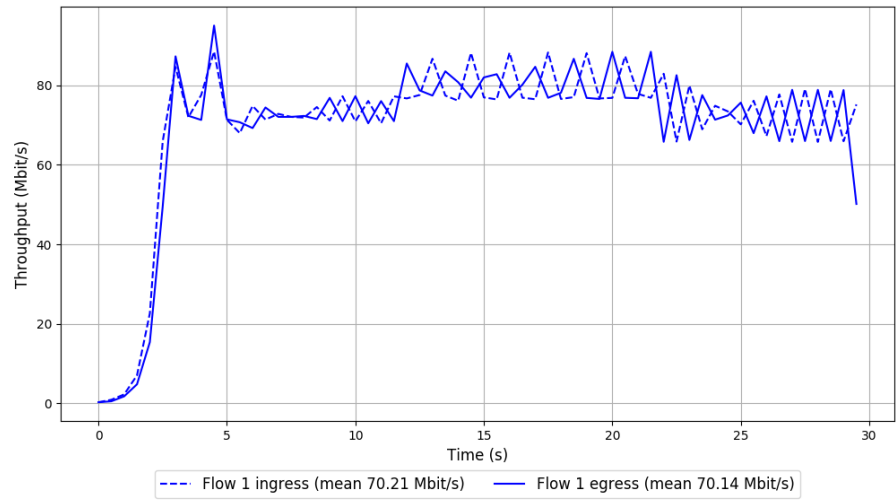
-- Flow 1:

Average throughput: 70.14 Mbit/s

95th percentile per-packet one-way delay: 163.126 ms

Loss rate: 1.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-28 01:25:36

End at: 2018-02-28 01:26:06

Below is generated by plot.py at 2018-02-28 05:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.36 Mbit/s

95th percentile per-packet one-way delay: 163.138 ms

Loss rate: 1.14%

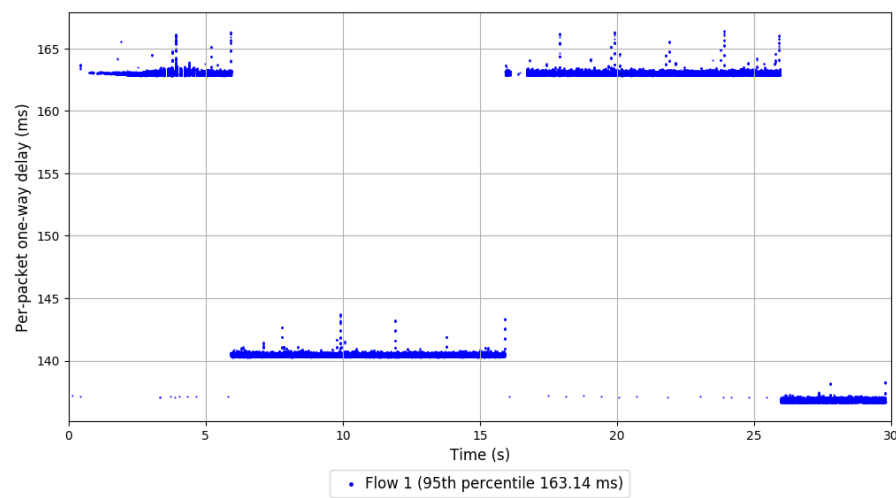
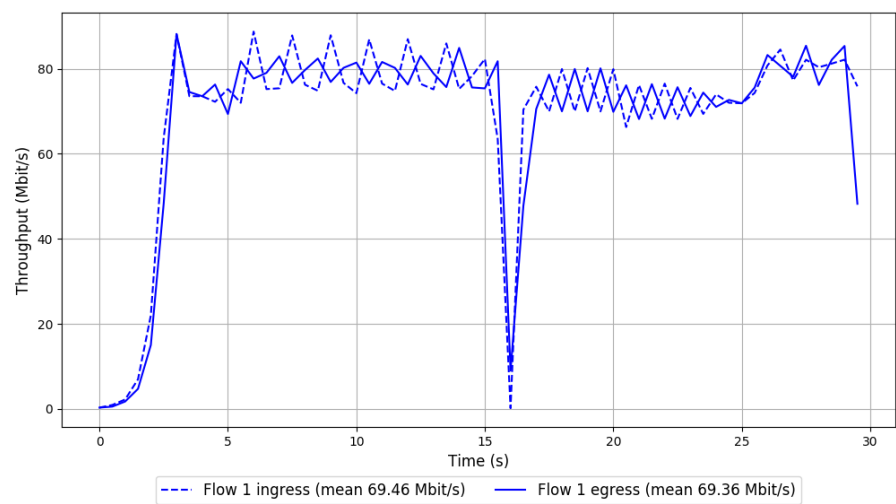
-- Flow 1:

Average throughput: 69.36 Mbit/s

95th percentile per-packet one-way delay: 163.138 ms

Loss rate: 1.14%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-28 01:41:35

End at: 2018-02-28 01:42:05

Below is generated by plot.py at 2018-02-28 05:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 0.96%

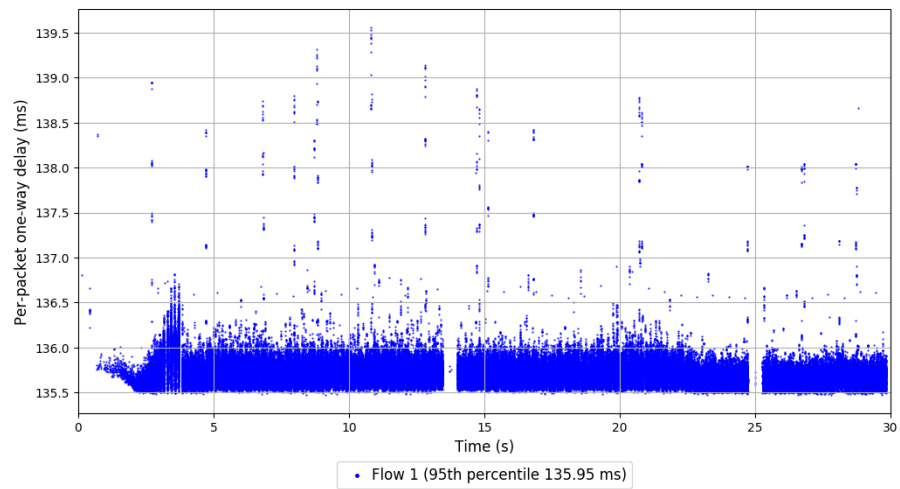
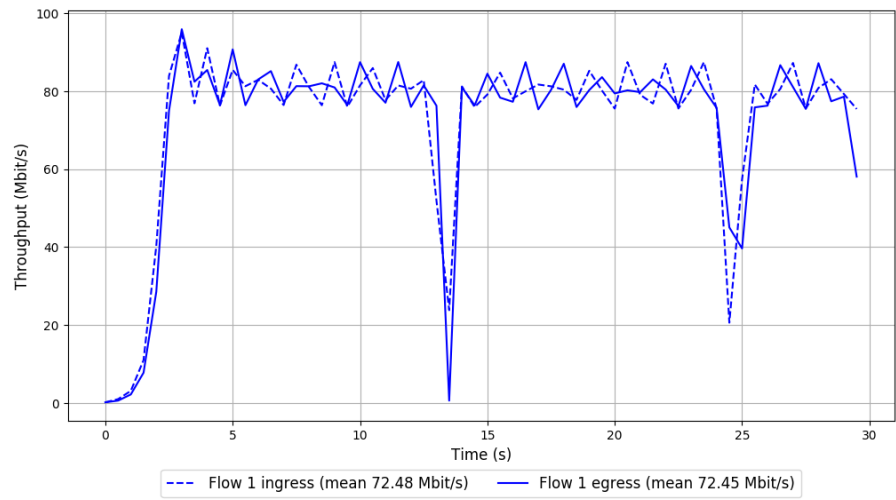
-- Flow 1:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 135.946 ms

Loss rate: 0.96%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-28 01:57:12

End at: 2018-02-28 01:57:42

Below is generated by plot.py at 2018-02-28 05:29:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.23 Mbit/s

95th percentile per-packet one-way delay: 162.195 ms

Loss rate: 0.00%

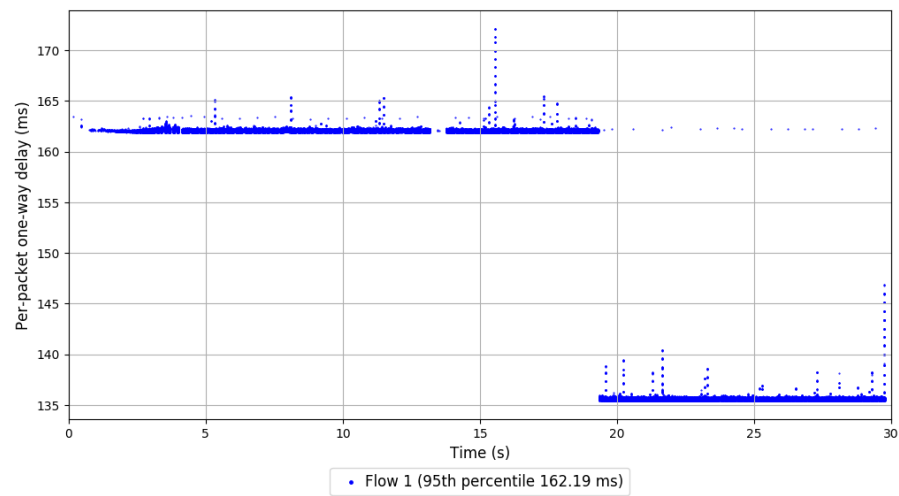
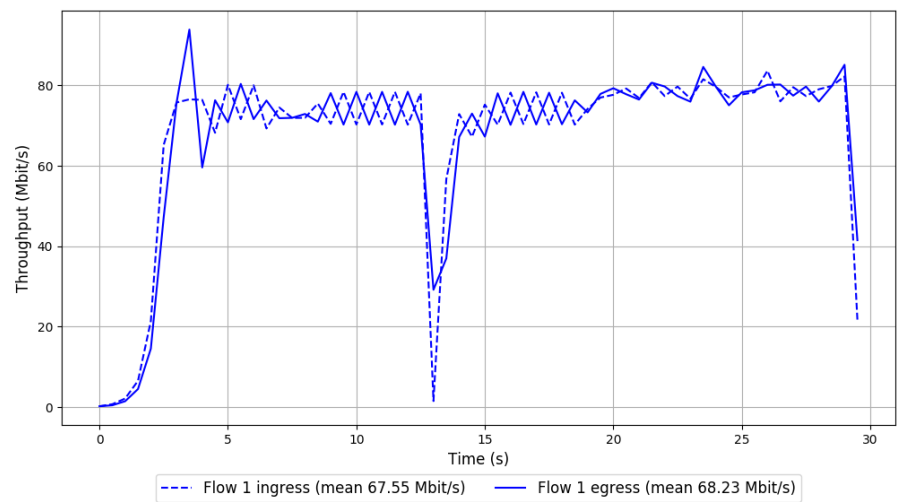
-- Flow 1:

Average throughput: 68.23 Mbit/s

95th percentile per-packet one-way delay: 162.195 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-28 02:13:03

End at: 2018-02-28 02:13:33

Below is generated by plot.py at 2018-02-28 05:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.89 Mbit/s

95th percentile per-packet one-way delay: 136.278 ms

Loss rate: 1.05%

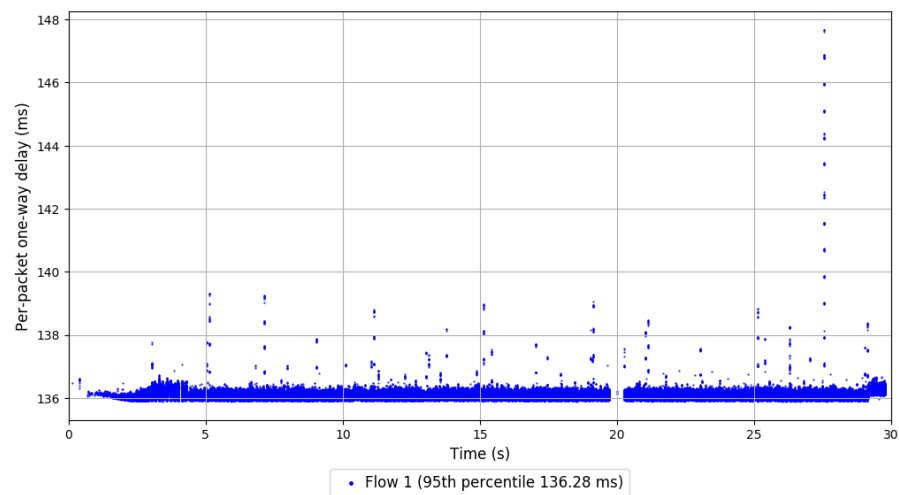
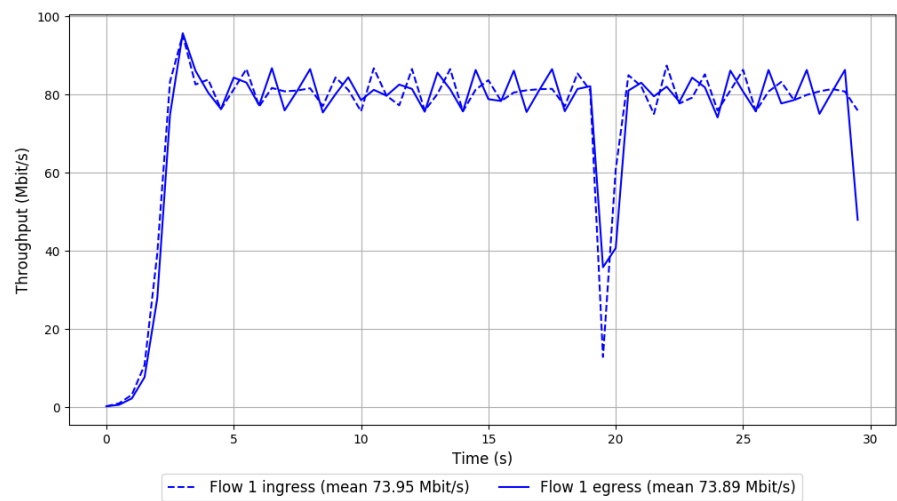
-- Flow 1:

Average throughput: 73.89 Mbit/s

95th percentile per-packet one-way delay: 136.278 ms

Loss rate: 1.05%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-28 02:29:23

End at: 2018-02-28 02:29:53

Below is generated by plot.py at 2018-02-28 05:30:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 137.264 ms

Loss rate: 1.09%

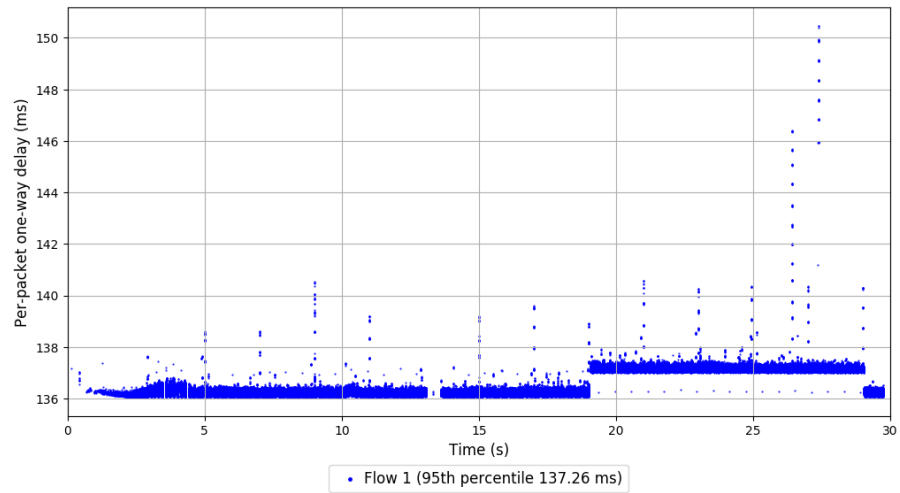
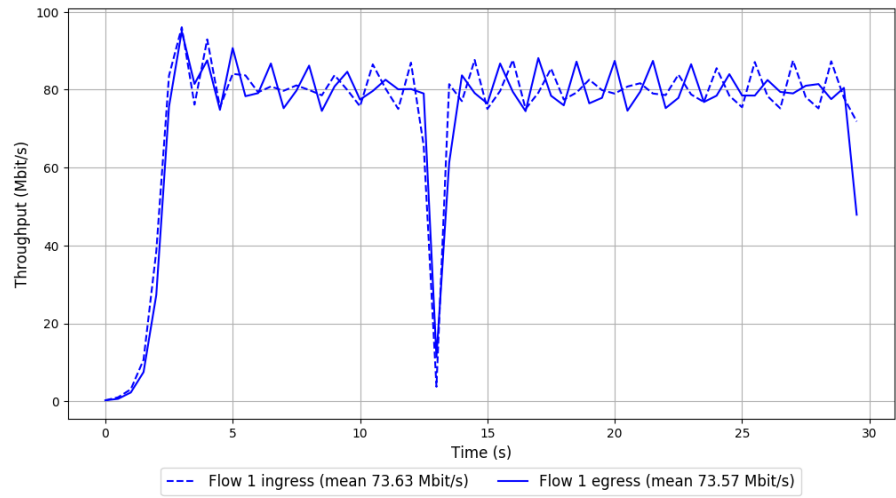
-- Flow 1:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 137.264 ms

Loss rate: 1.09%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-27 23:59:12

End at: 2018-02-27 23:59:42

Below is generated by plot.py at 2018-02-28 05:30:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.57 Mbit/s

95th percentile per-packet one-way delay: 150.369 ms

Loss rate: 1.09%

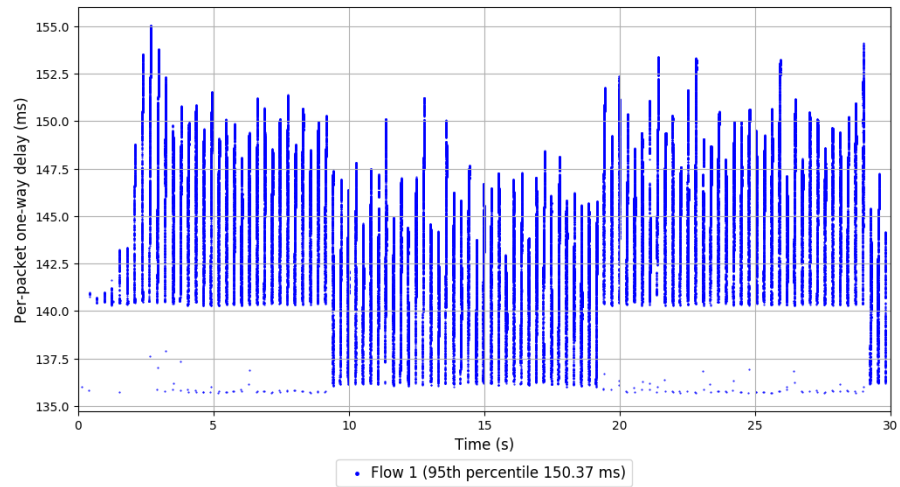
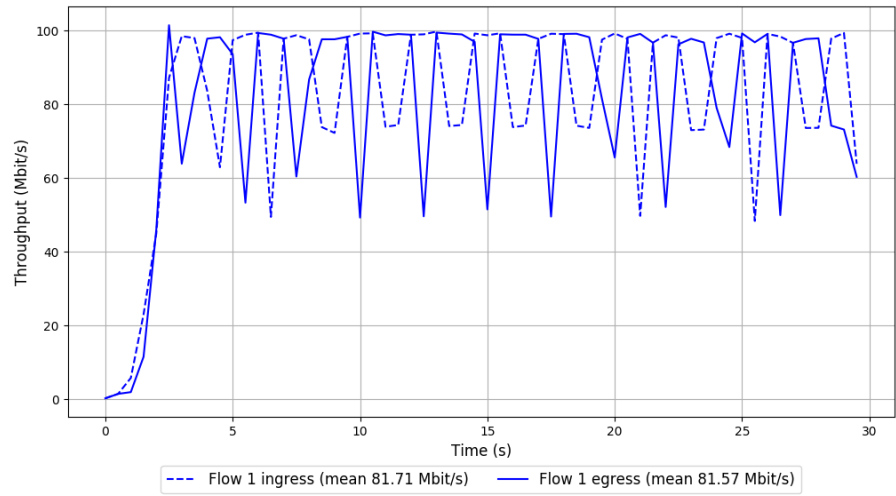
-- Flow 1:

Average throughput: 81.57 Mbit/s

95th percentile per-packet one-way delay: 150.369 ms

Loss rate: 1.09%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-28 00:15:12

End at: 2018-02-28 00:15:42

Below is generated by plot.py at 2018-02-28 05:30:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 149.971 ms

Loss rate: 0.97%

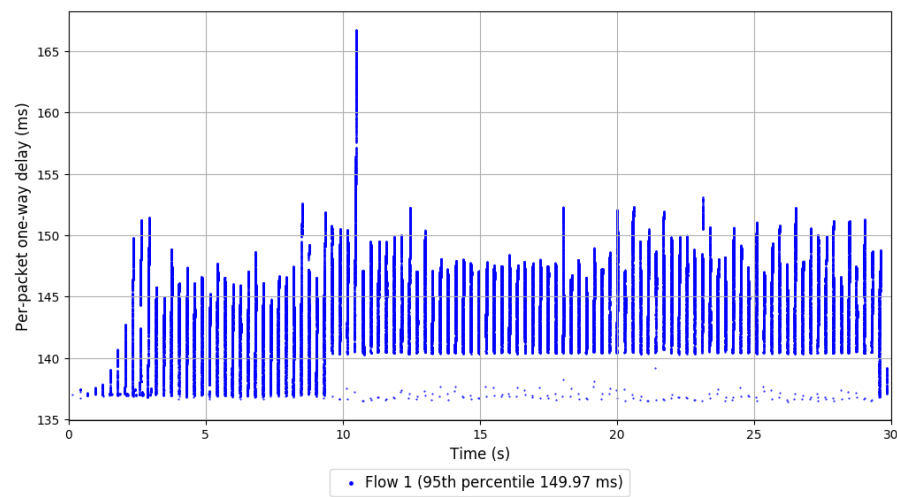
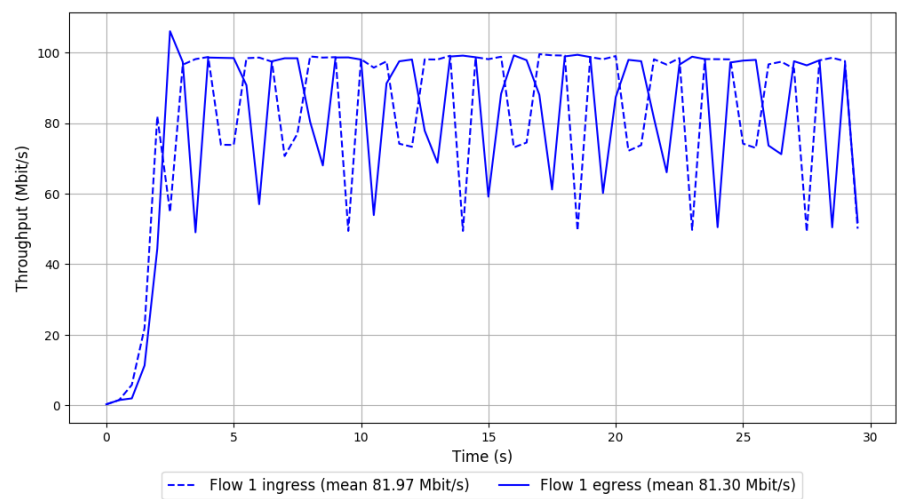
-- Flow 1:

Average throughput: 81.30 Mbit/s

95th percentile per-packet one-way delay: 149.971 ms

Loss rate: 0.97%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-28 00:31:31

End at: 2018-02-28 00:32:01

Below is generated by plot.py at 2018-02-28 05:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 148.026 ms

Loss rate: 0.97%

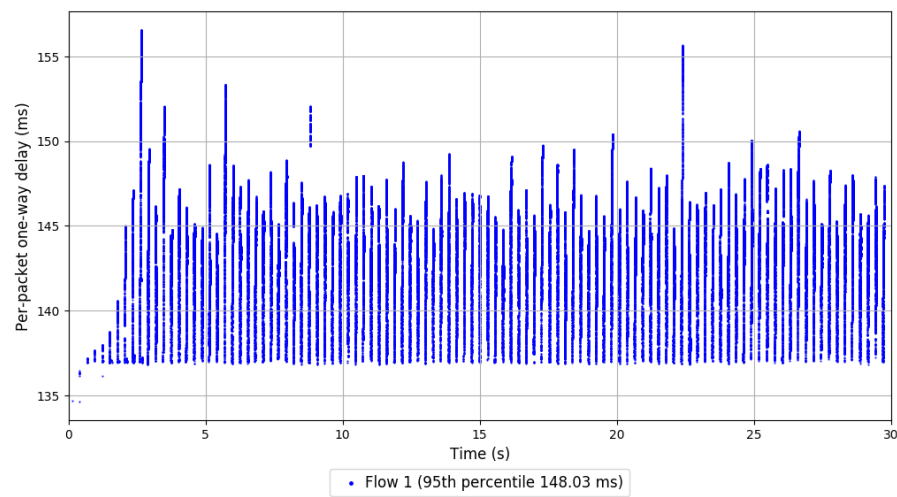
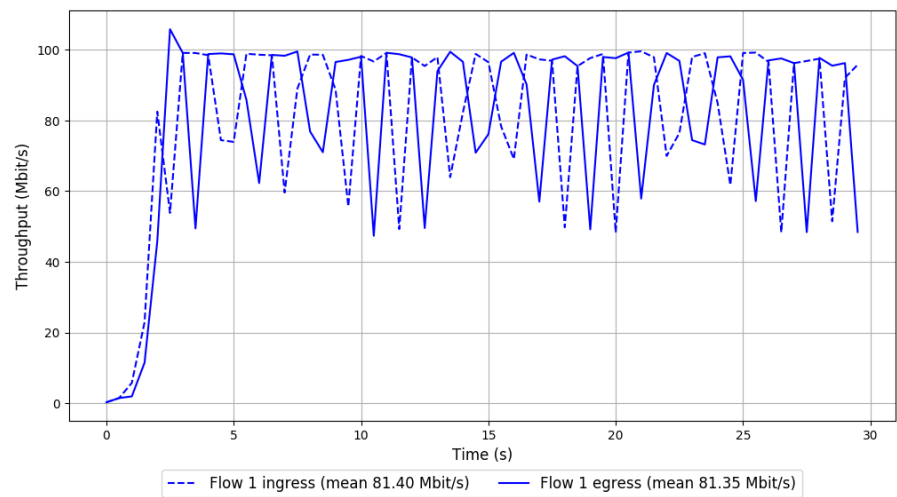
-- Flow 1:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 148.026 ms

Loss rate: 0.97%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-28 00:47:52

End at: 2018-02-28 00:48:22

Below is generated by plot.py at 2018-02-28 05:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 145.927 ms

Loss rate: 1.55%

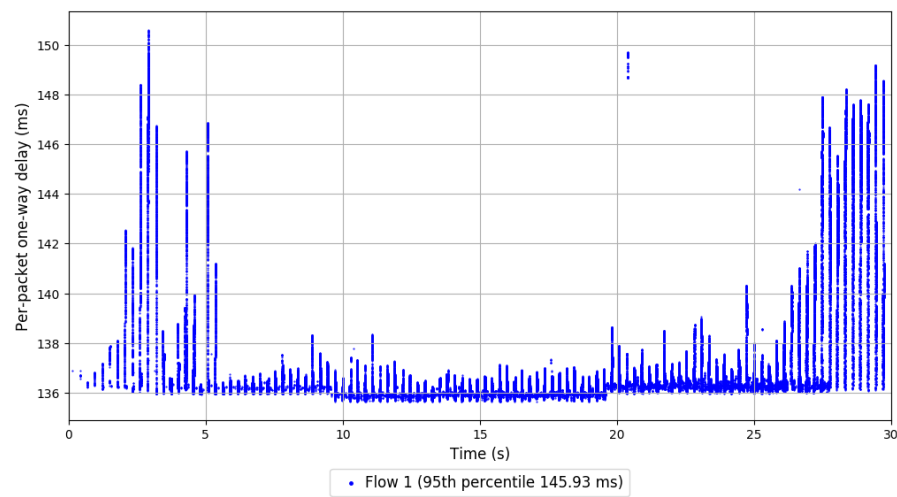
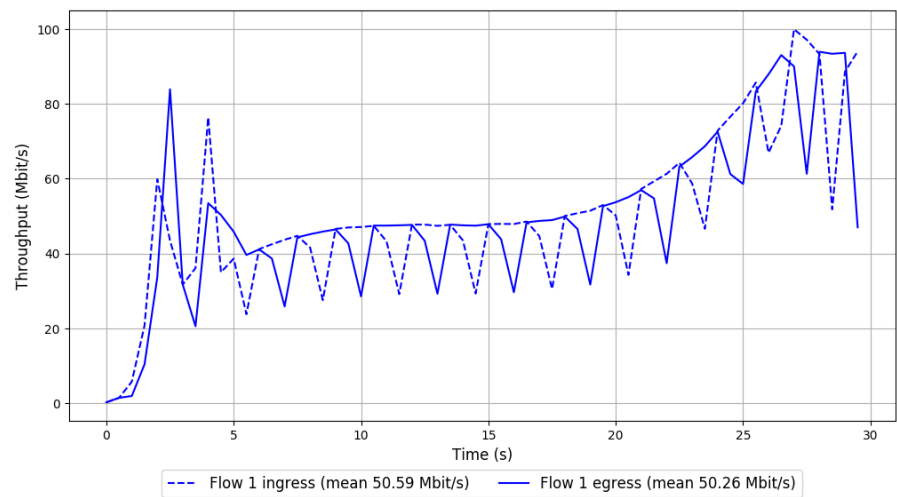
-- Flow 1:

Average throughput: 50.26 Mbit/s

95th percentile per-packet one-way delay: 145.927 ms

Loss rate: 1.55%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-28 01:03:34

End at: 2018-02-28 01:04:04

Below is generated by plot.py at 2018-02-28 05:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.80 Mbit/s

95th percentile per-packet one-way delay: 171.817 ms

Loss rate: 1.02%

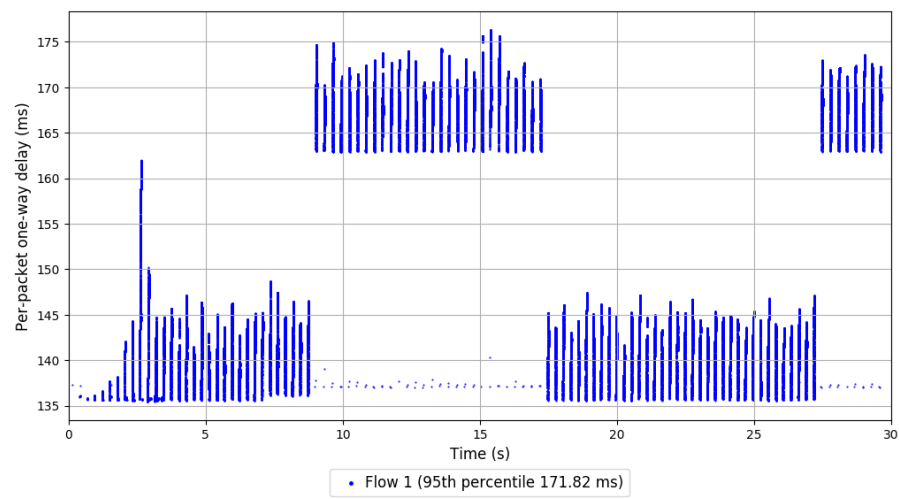
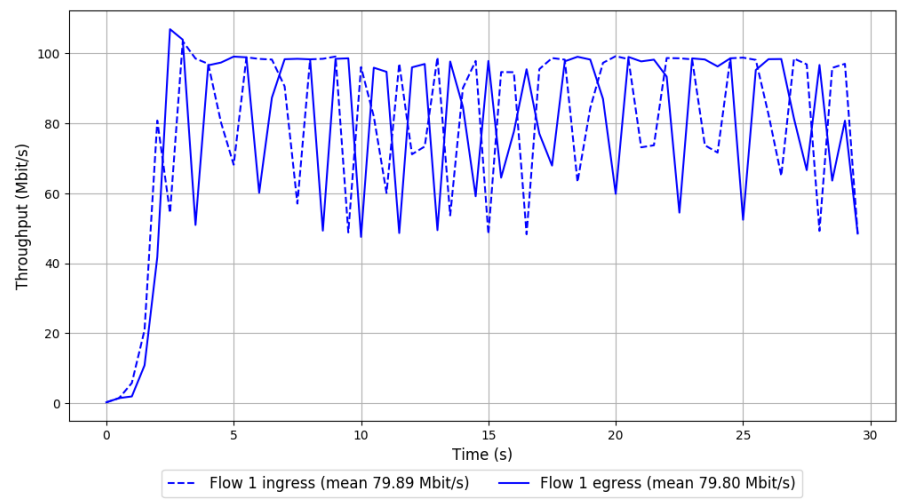
-- Flow 1:

Average throughput: 79.80 Mbit/s

95th percentile per-packet one-way delay: 171.817 ms

Loss rate: 1.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-28 01:19:14

End at: 2018-02-28 01:19:44

Below is generated by plot.py at 2018-02-28 05:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 145.608 ms

Loss rate: 1.08%

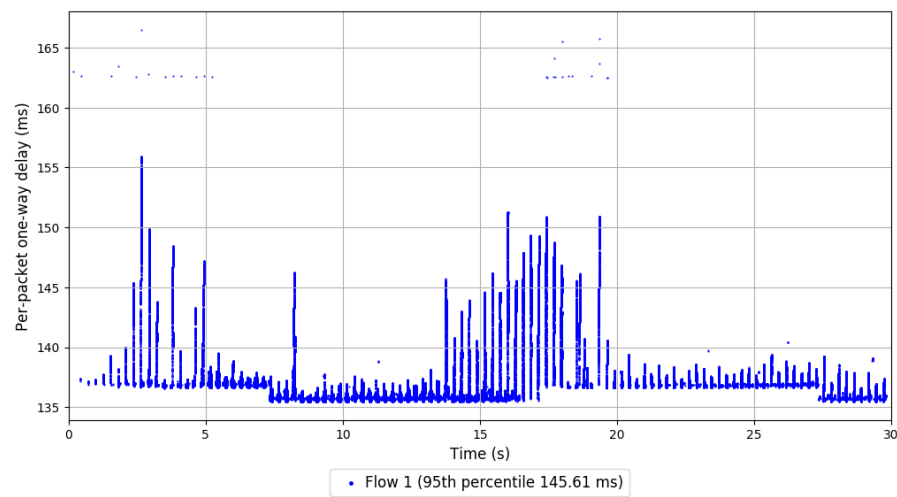
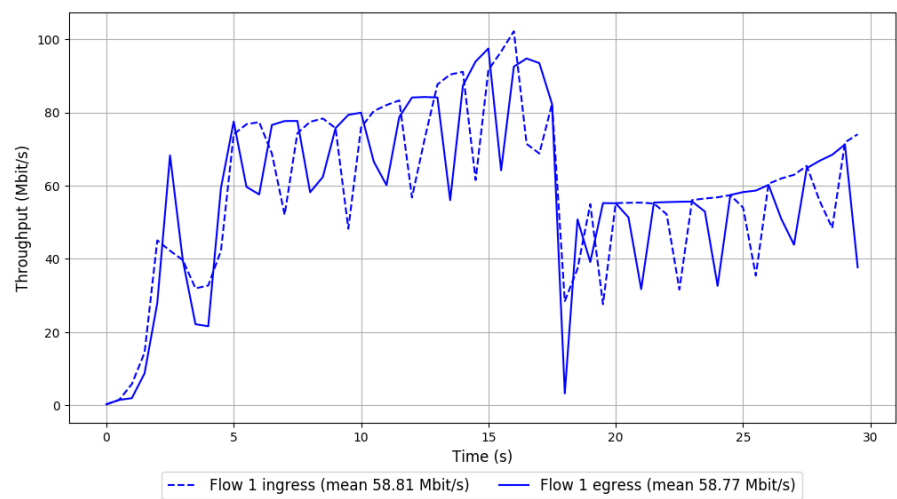
-- Flow 1:

Average throughput: 58.77 Mbit/s

95th percentile per-packet one-way delay: 145.608 ms

Loss rate: 1.08%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-28 01:35:02

End at: 2018-02-28 01:35:32

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.47 Mbit/s

95th percentile per-packet one-way delay: 151.415 ms

Loss rate: 0.76%

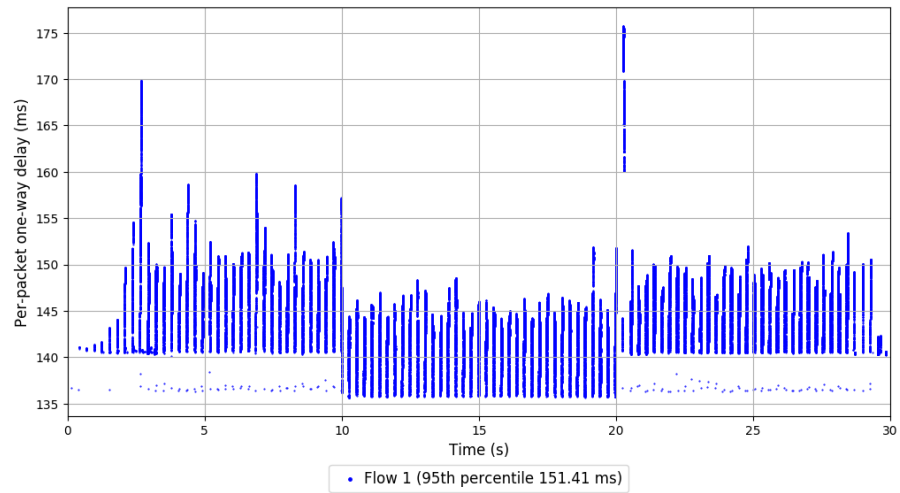
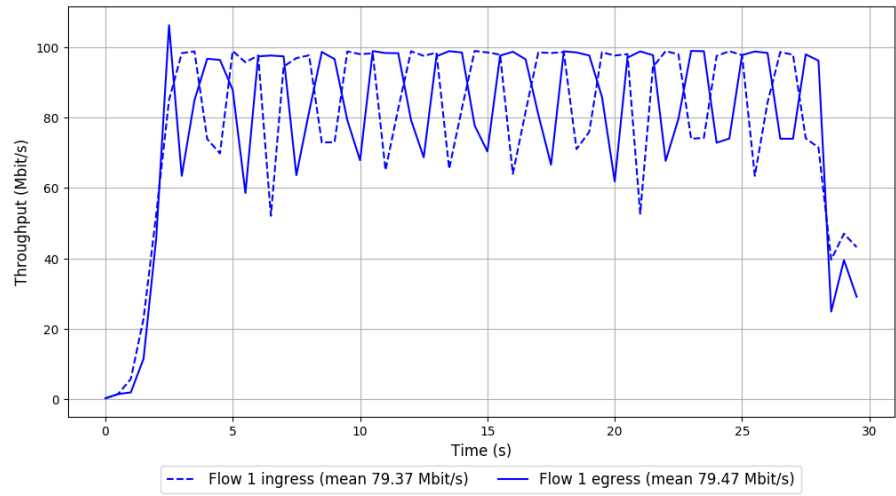
-- Flow 1:

Average throughput: 79.47 Mbit/s

95th percentile per-packet one-way delay: 151.415 ms

Loss rate: 0.76%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-28 01:50:58

End at: 2018-02-28 01:51:28

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 148.639 ms

Loss rate: 0.98%

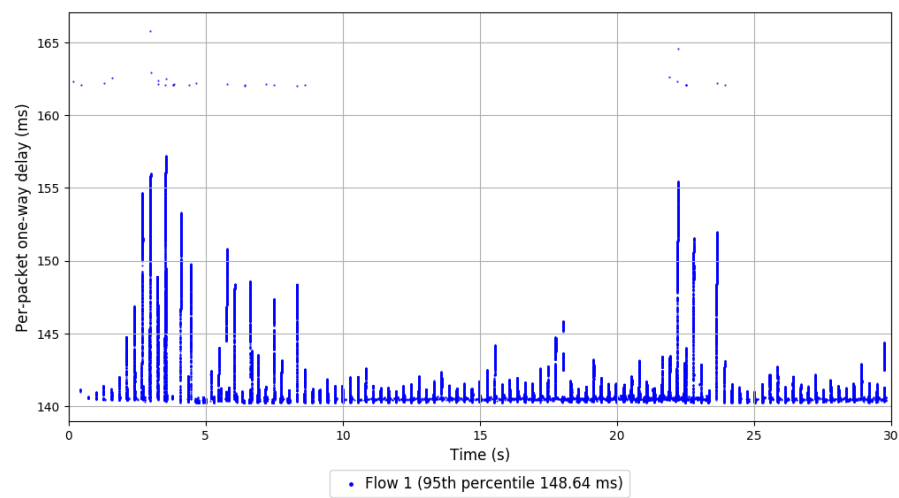
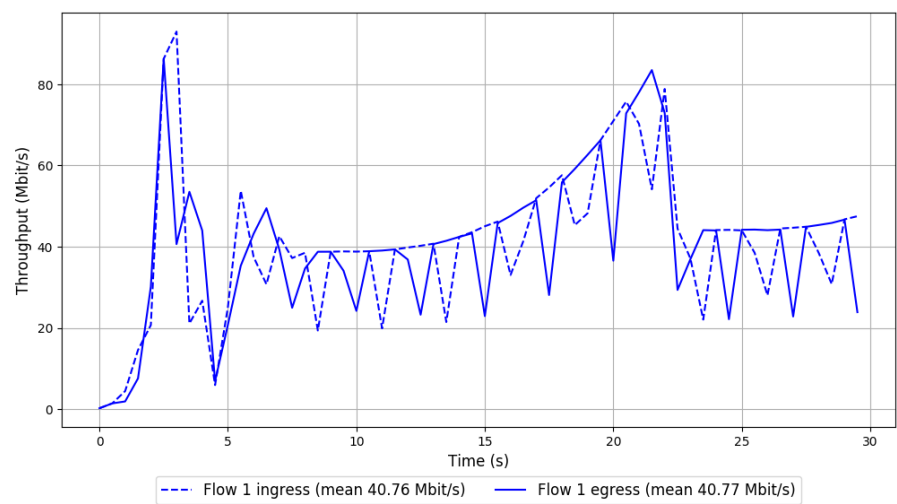
-- Flow 1:

Average throughput: 40.77 Mbit/s

95th percentile per-packet one-way delay: 148.639 ms

Loss rate: 0.98%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-28 02:06:32

End at: 2018-02-28 02:07:02

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.84 Mbit/s

95th percentile per-packet one-way delay: 168.508 ms

Loss rate: 1.25%

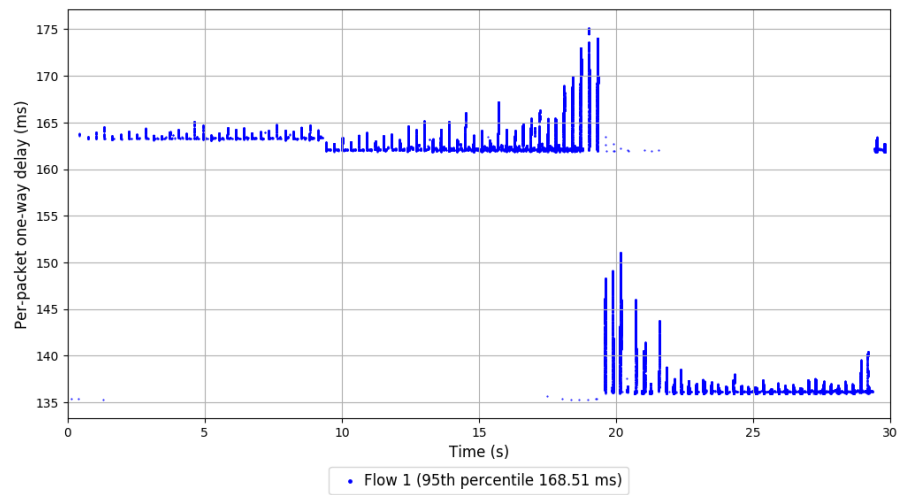
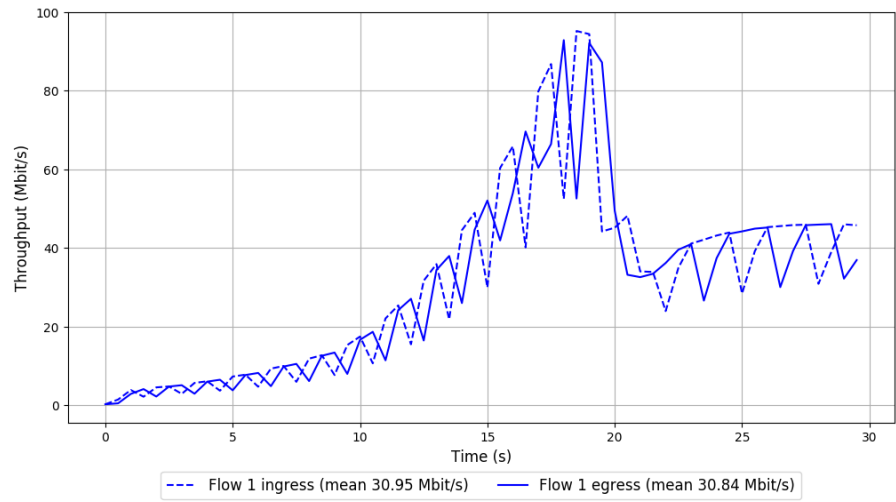
-- Flow 1:

Average throughput: 30.84 Mbit/s

95th percentile per-packet one-way delay: 168.508 ms

Loss rate: 1.25%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-28 02:22:40

End at: 2018-02-28 02:23:11

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 163.049 ms

Loss rate: 1.46%

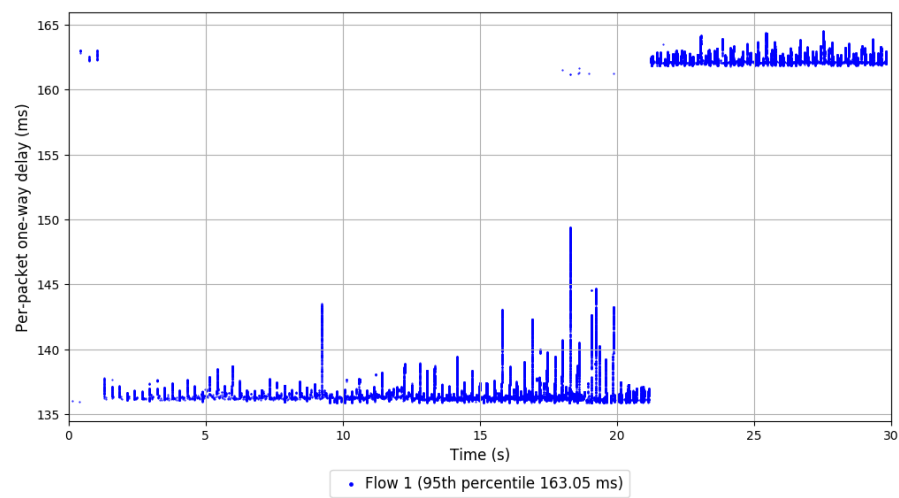
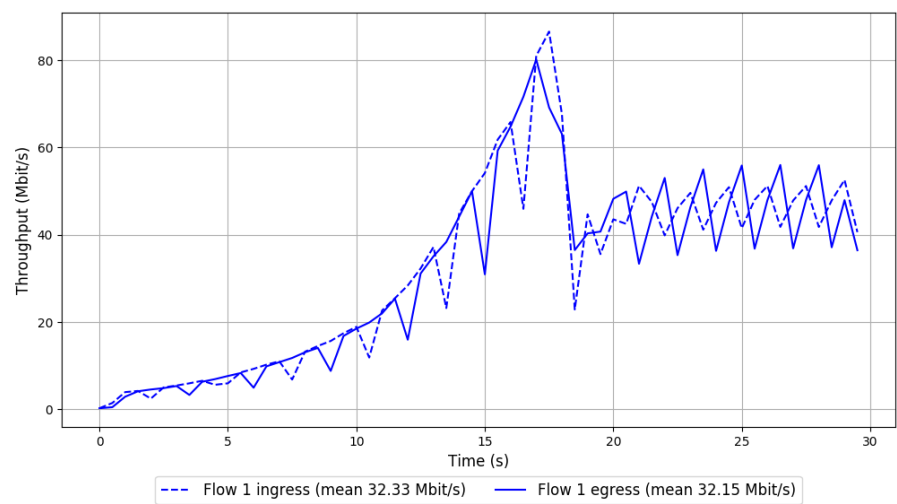
-- Flow 1:

Average throughput: 32.15 Mbit/s

95th percentile per-packet one-way delay: 163.049 ms

Loss rate: 1.46%

Run 10: Report of TCP Cubic — Data Link

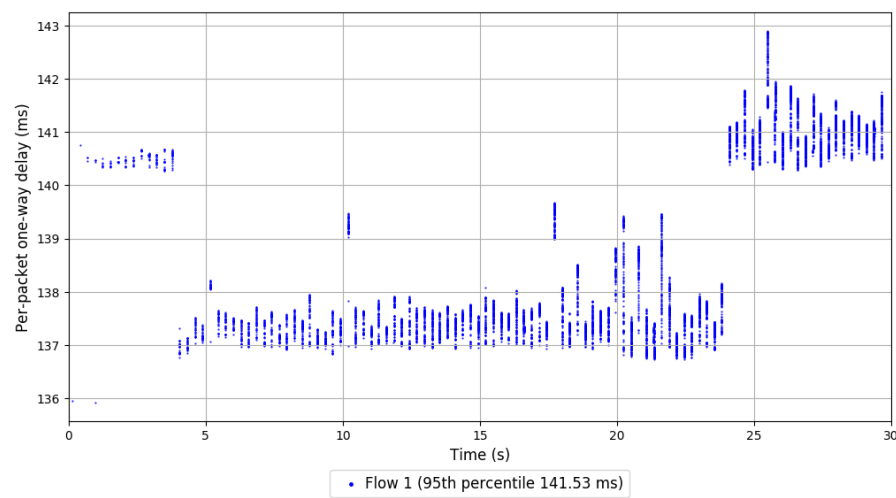
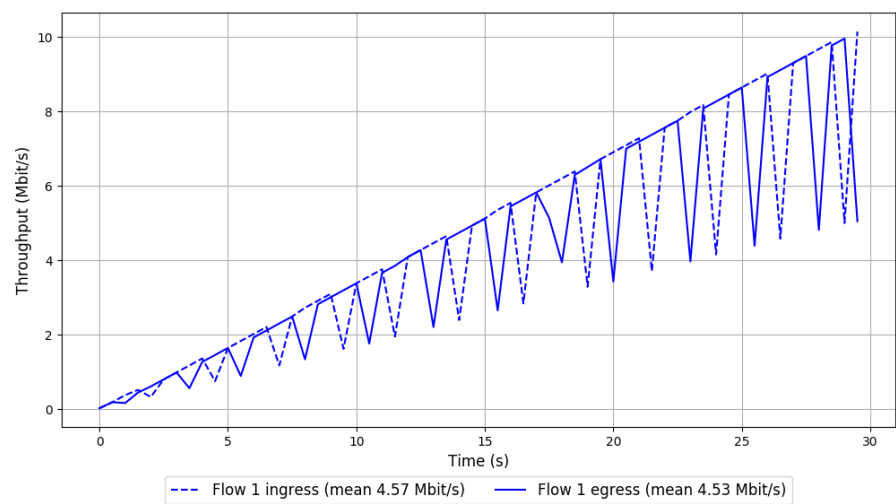


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-28 00:08:58
End at: 2018-02-28 00:09:28

# Below is generated by plot.py at 2018-02-28 05:31:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 141.528 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 141.528 ms
Loss rate: 1.87%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-28 00:25:21

End at: 2018-02-28 00:25:51

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 138.047 ms

Loss rate: 1.84%

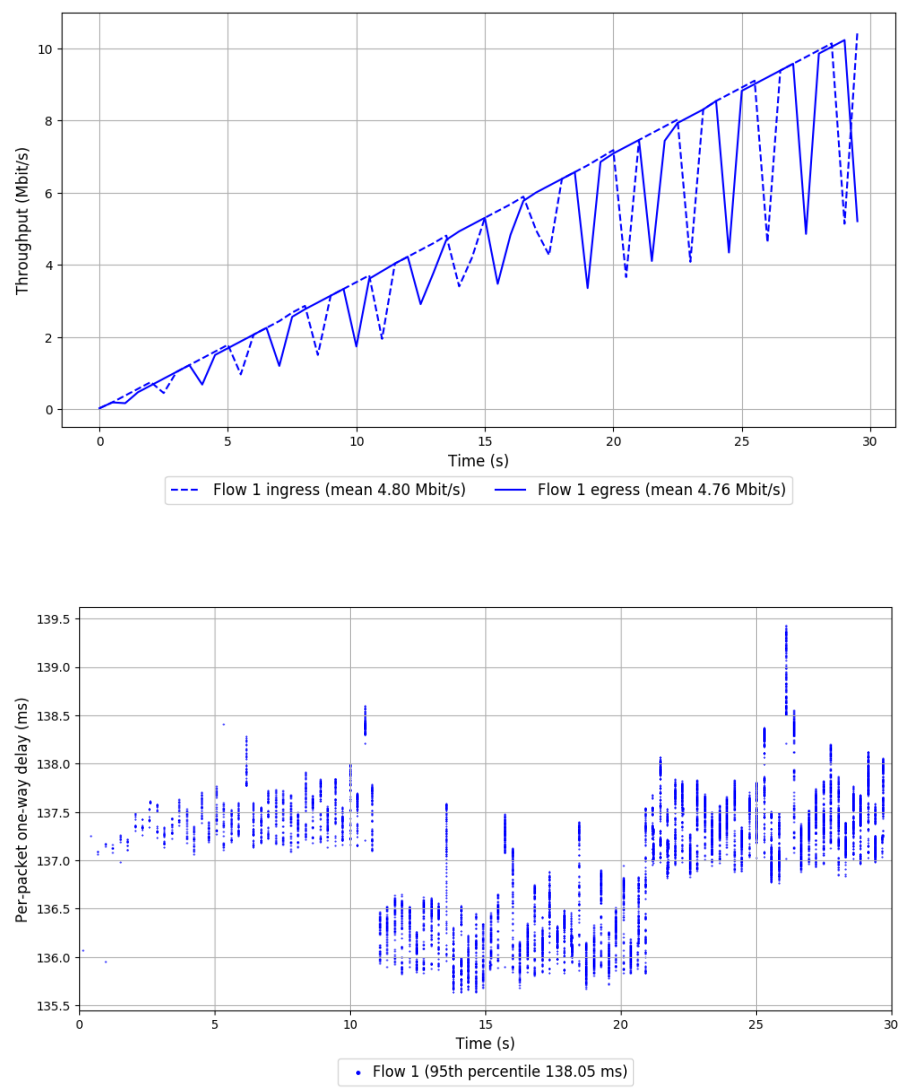
-- Flow 1:

Average throughput: 4.76 Mbit/s

95th percentile per-packet one-way delay: 138.047 ms

Loss rate: 1.84%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-28 00:41:38

End at: 2018-02-28 00:42:08

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 137.249 ms

Loss rate: 2.75%

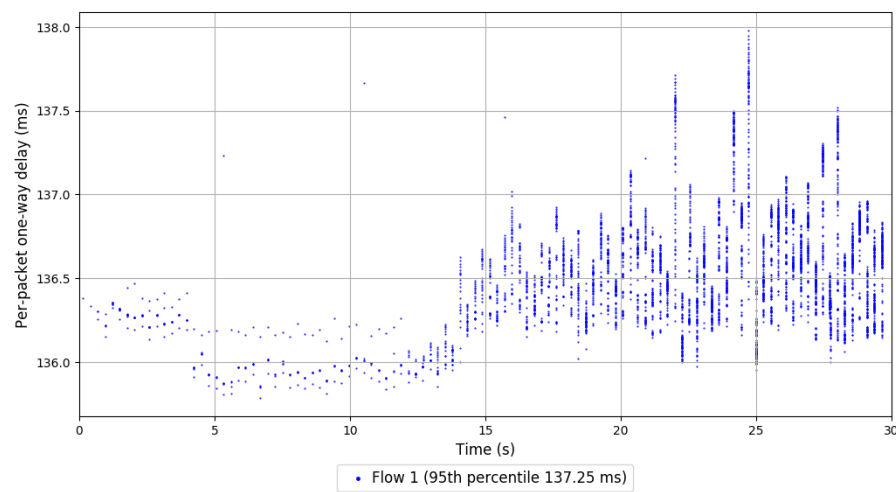
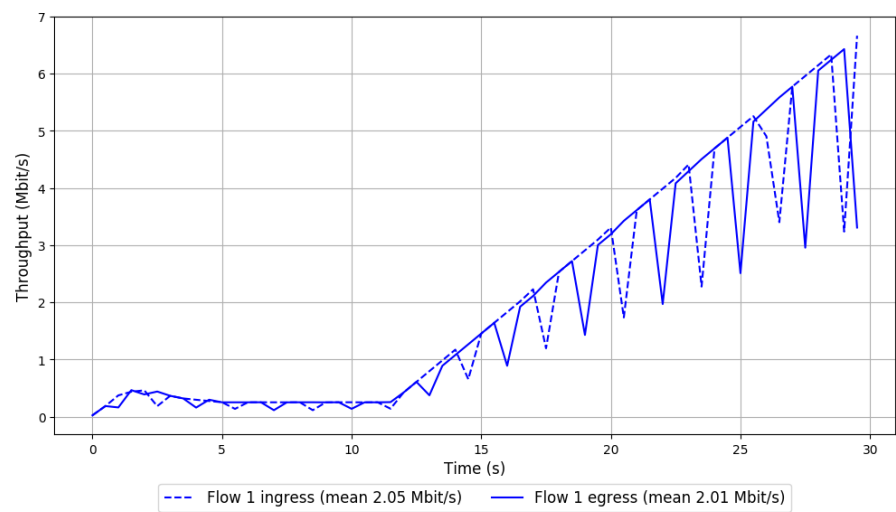
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 137.249 ms

Loss rate: 2.75%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-28 00:57:41

End at: 2018-02-28 00:58:11

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.77 Mbit/s

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

Loss rate: 1.83%

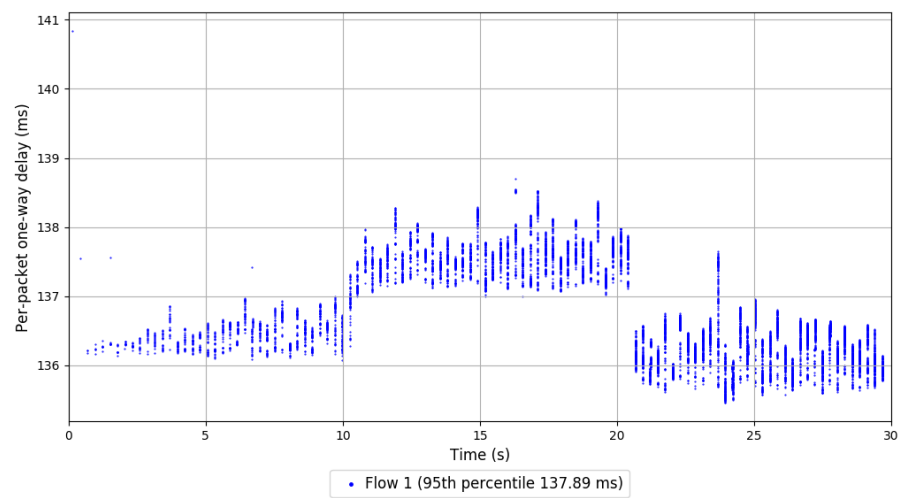
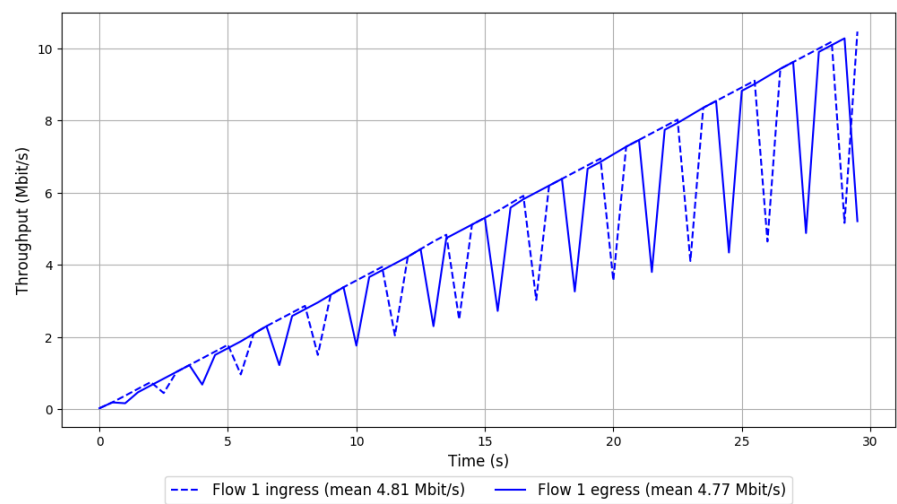
-- Flow 1:

Average throughput: 4.77 Mbit/s

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

Loss rate: 1.83%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-28 01:13:05

End at: 2018-02-28 01:13:35

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 163.721 ms

Loss rate: 1.97%

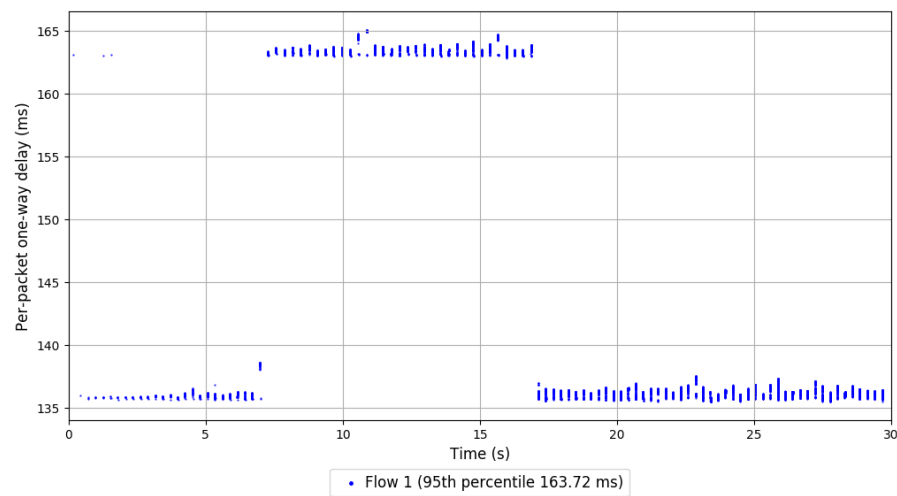
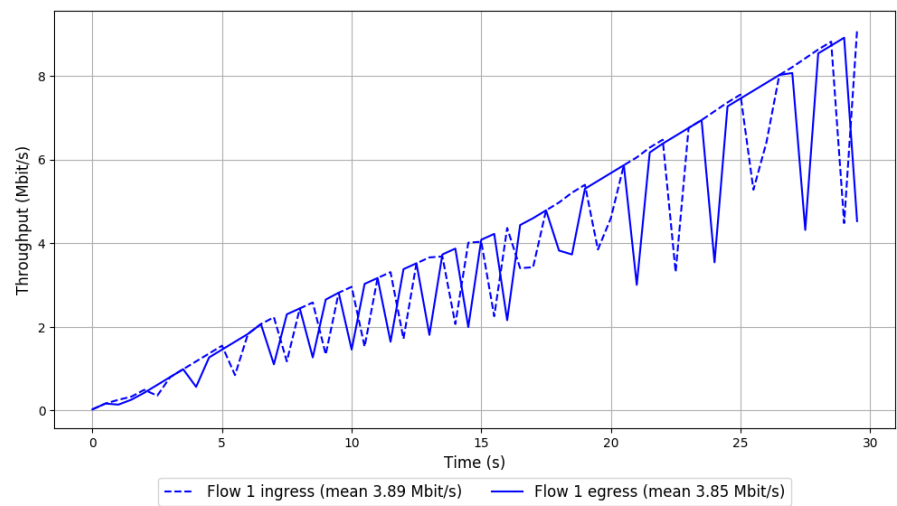
-- Flow 1:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 163.721 ms

Loss rate: 1.97%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-28 01:29:00

End at: 2018-02-28 01:29:30

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 164.472 ms

Loss rate: 1.97%

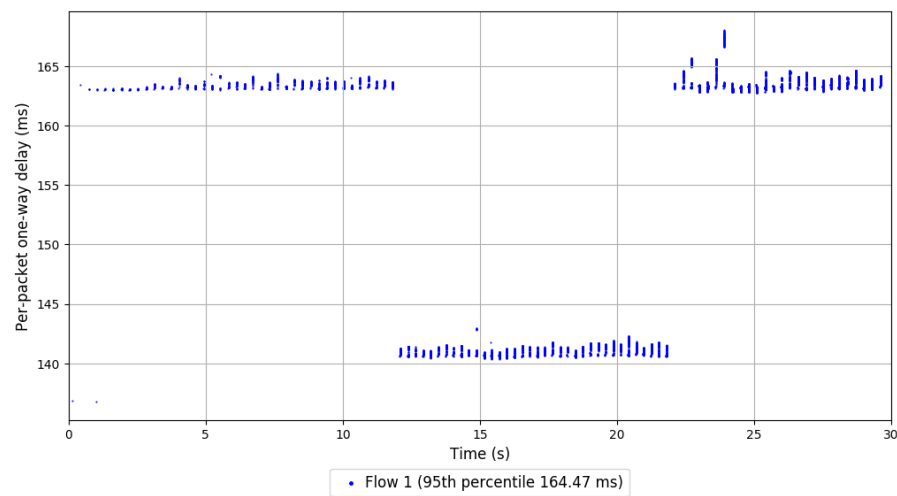
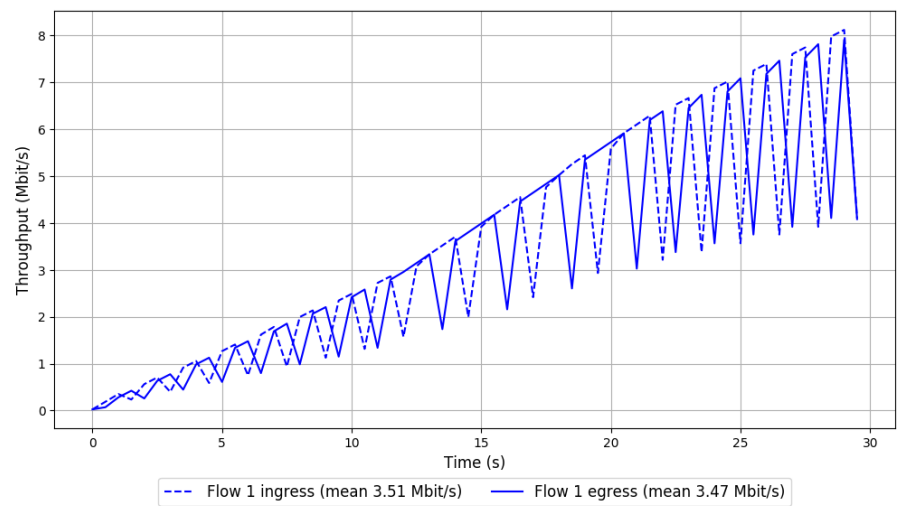
-- Flow 1:

Average throughput: 3.47 Mbit/s

95th percentile per-packet one-way delay: 164.472 ms

Loss rate: 1.97%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-28 01:44:58

End at: 2018-02-28 01:45:28

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 164.240 ms

Loss rate: 1.85%

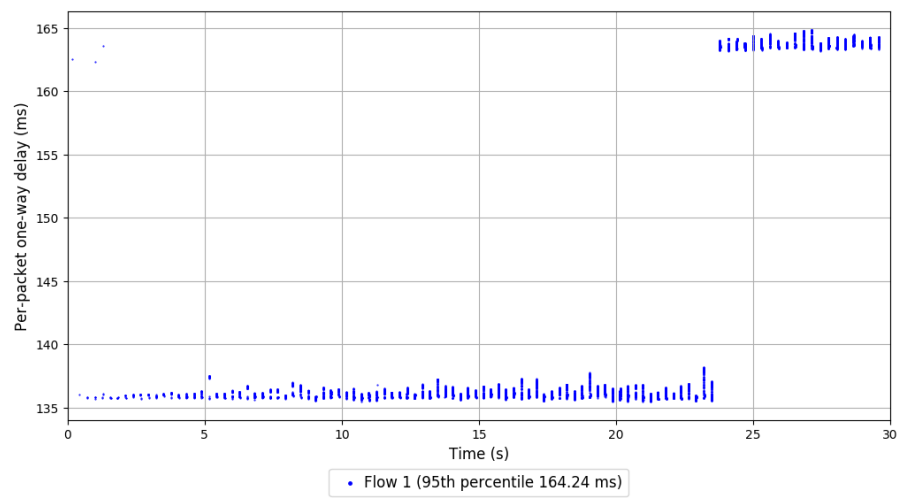
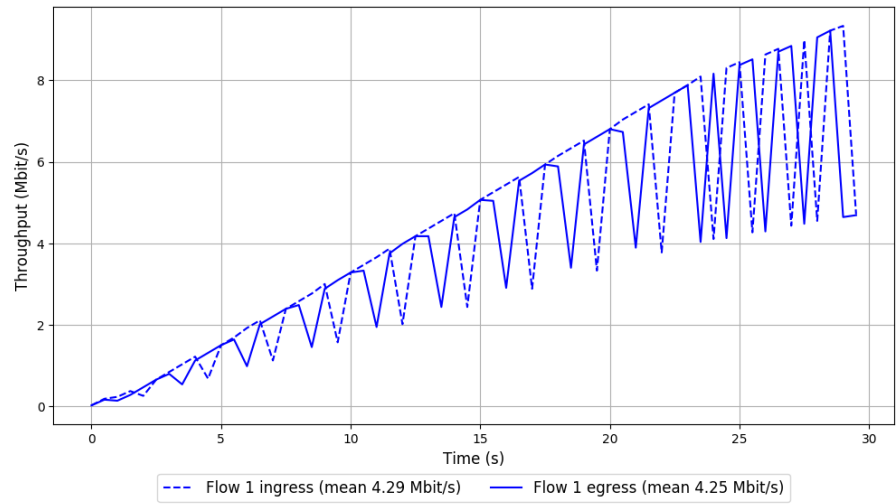
-- Flow 1:

Average throughput: 4.25 Mbit/s

95th percentile per-packet one-way delay: 164.240 ms

Loss rate: 1.85%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-28 02:00:35

End at: 2018-02-28 02:01:05

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 163.932 ms

Loss rate: 1.93%

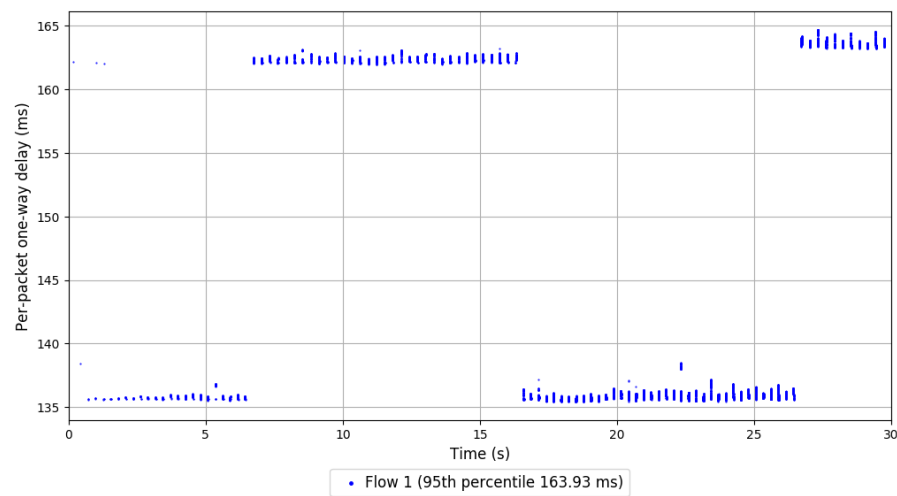
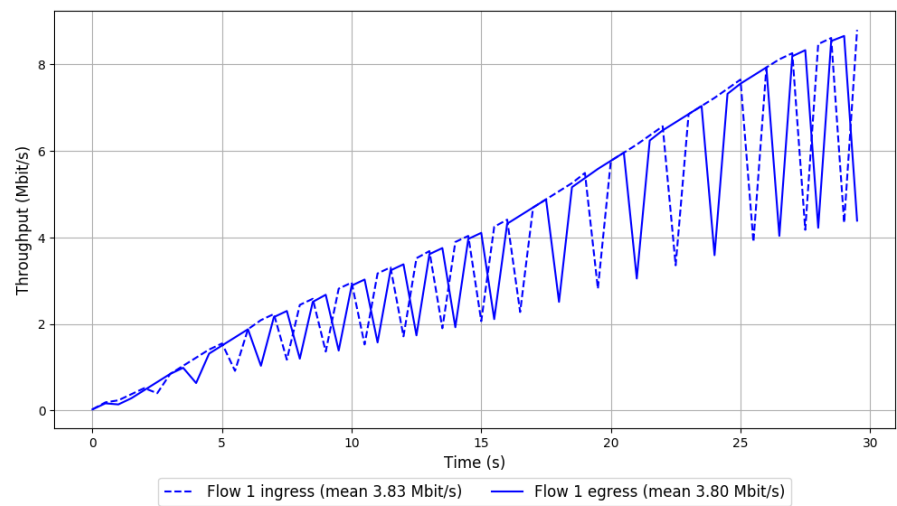
-- Flow 1:

Average throughput: 3.80 Mbit/s

95th percentile per-packet one-way delay: 163.932 ms

Loss rate: 1.93%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-28 02:16:24

End at: 2018-02-28 02:16:54

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 162.913 ms

Loss rate: 1.93%

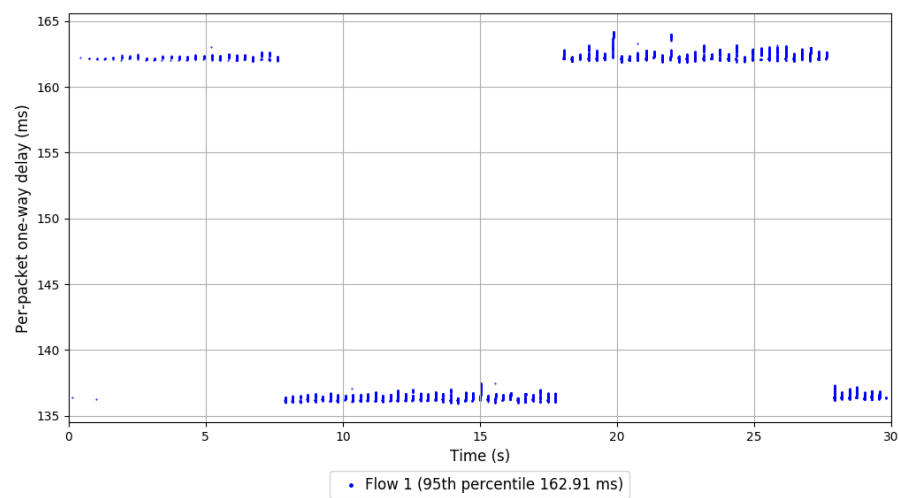
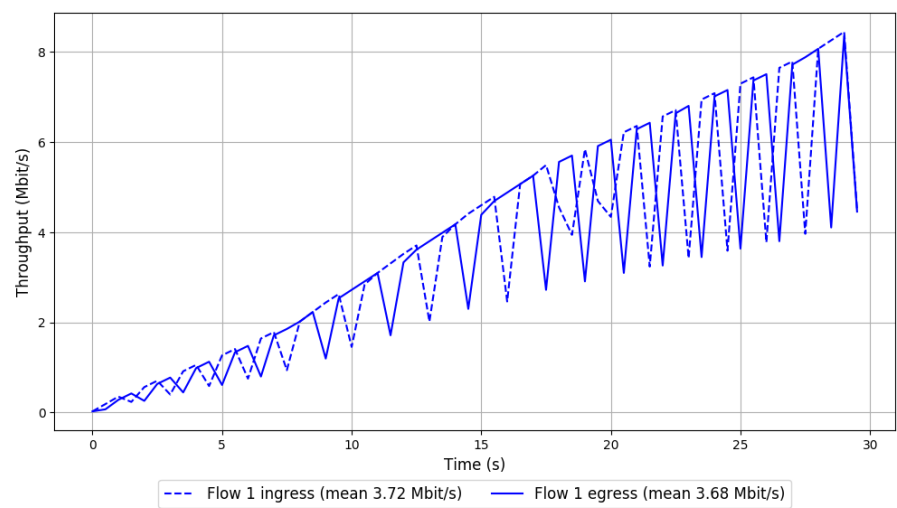
-- Flow 1:

Average throughput: 3.68 Mbit/s

95th percentile per-packet one-way delay: 162.913 ms

Loss rate: 1.93%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-28 02:32:42

End at: 2018-02-28 02:33:12

Below is generated by plot.py at 2018-02-28 05:31:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 138.291 ms

Loss rate: 1.93%

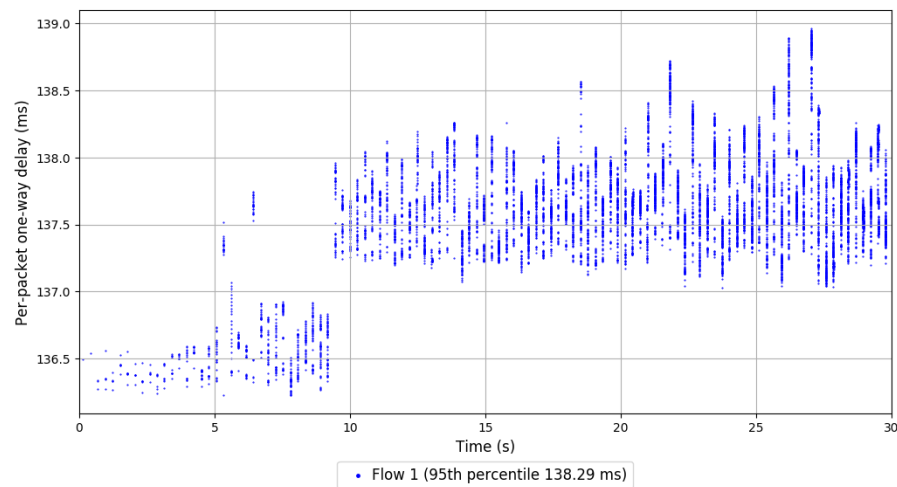
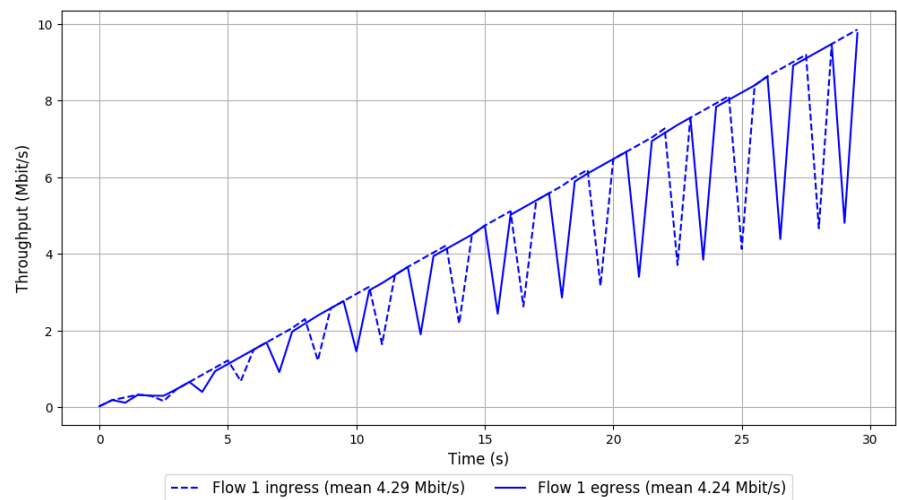
-- Flow 1:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 138.291 ms

Loss rate: 1.93%

Run 10: Report of LEDBAT — Data Link

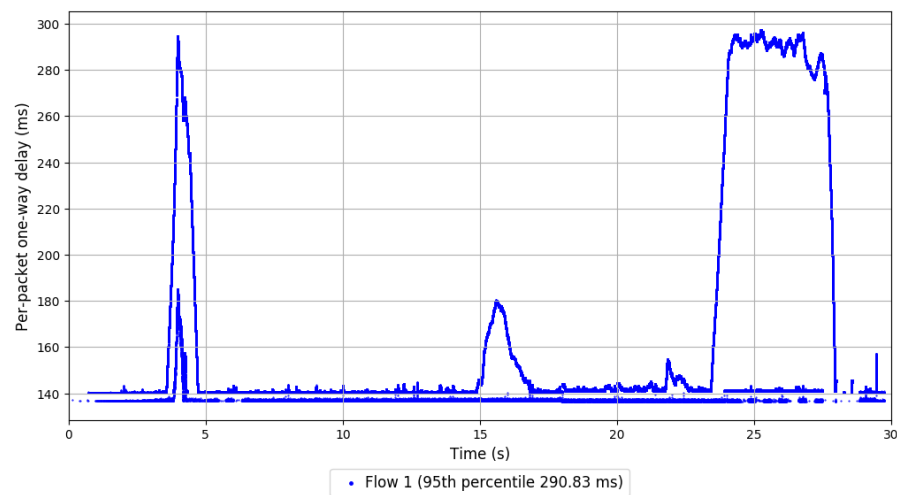
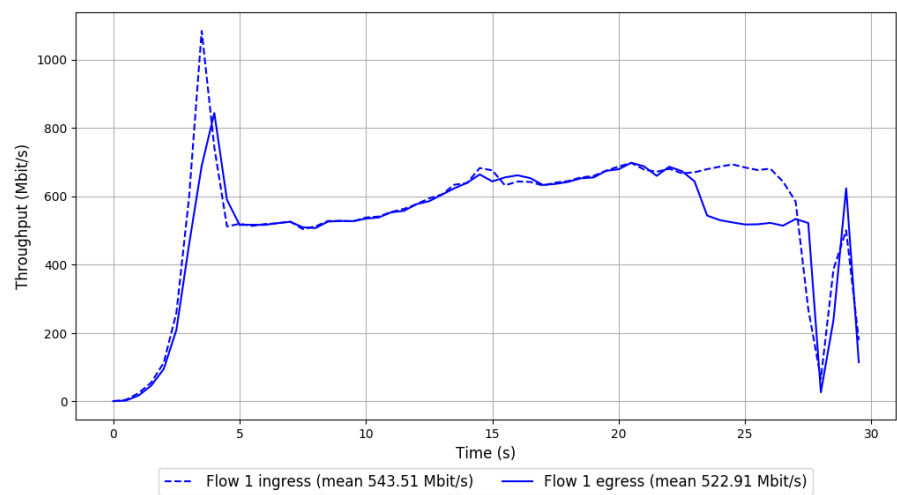


```
Run 1: Statistics of PCC

Start at: 2018-02-28 00:04:34
End at: 2018-02-28 00:05:04

# Below is generated by plot.py at 2018-02-28 05:40:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 522.91 Mbit/s
95th percentile per-packet one-way delay: 290.831 ms
Loss rate: 4.67%
-- Flow 1:
Average throughput: 522.91 Mbit/s
95th percentile per-packet one-way delay: 290.831 ms
Loss rate: 4.67%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-28 00:20:53

End at: 2018-02-28 00:21:23

Below is generated by plot.py at 2018-02-28 05:40:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 564.10 Mbit/s

95th percentile per-packet one-way delay: 240.770 ms

Loss rate: 2.44%

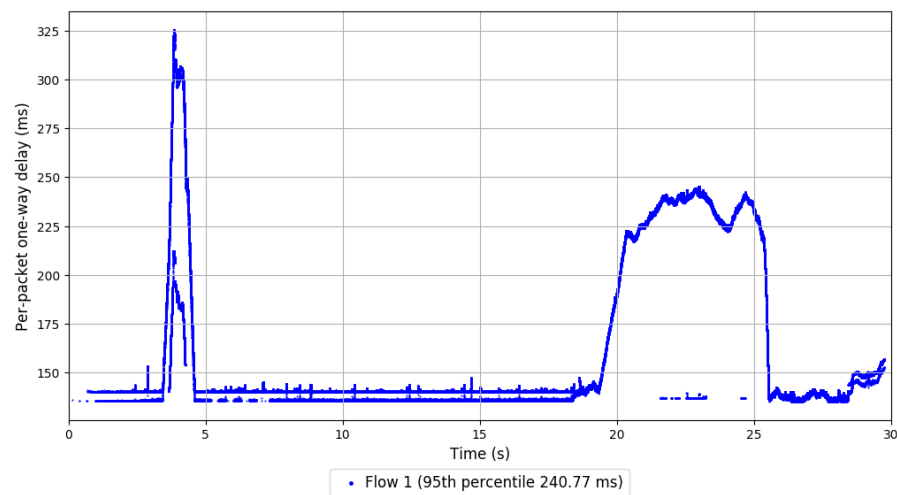
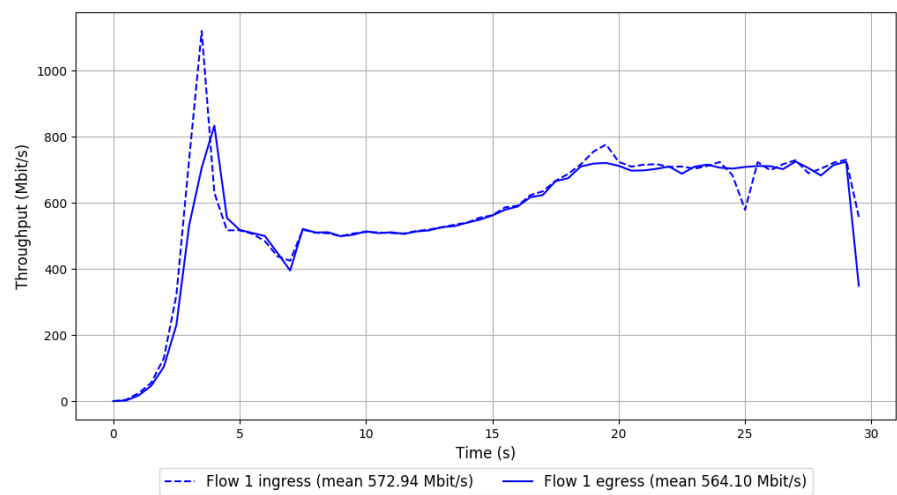
-- Flow 1:

Average throughput: 564.10 Mbit/s

95th percentile per-packet one-way delay: 240.770 ms

Loss rate: 2.44%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-28 00:37:12

End at: 2018-02-28 00:37:42

Below is generated by plot.py at 2018-02-28 05:40:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 506.17 Mbit/s

95th percentile per-packet one-way delay: 273.003 ms

Loss rate: 2.85%

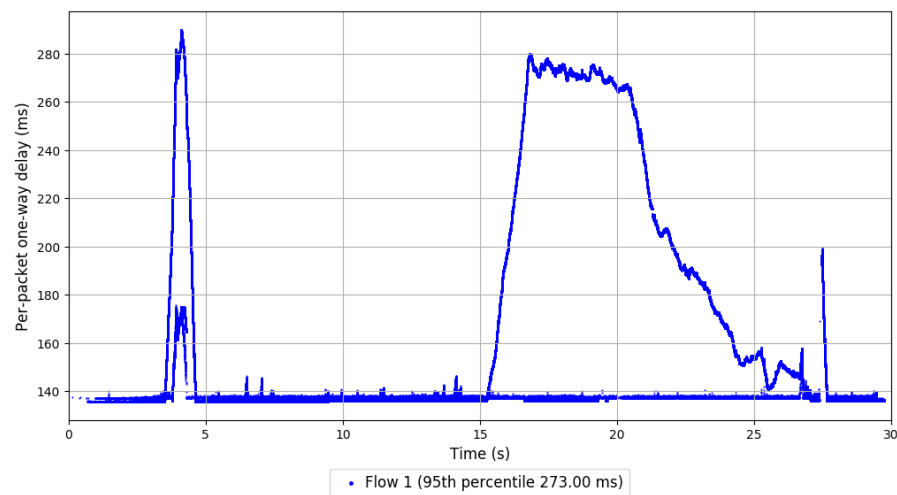
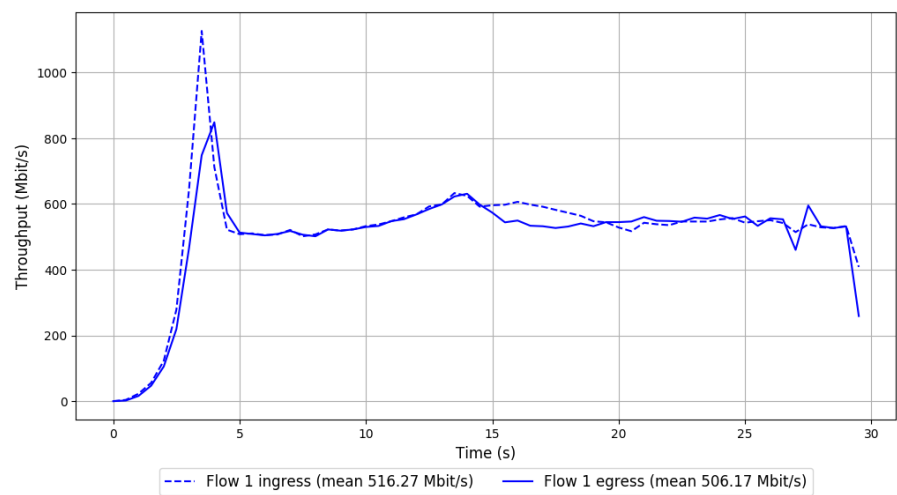
-- Flow 1:

Average throughput: 506.17 Mbit/s

95th percentile per-packet one-way delay: 273.003 ms

Loss rate: 2.85%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-28 00:53:13

End at: 2018-02-28 00:53:43

Below is generated by plot.py at 2018-02-28 05:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 569.35 Mbit/s

95th percentile per-packet one-way delay: 234.265 ms

Loss rate: 2.28%

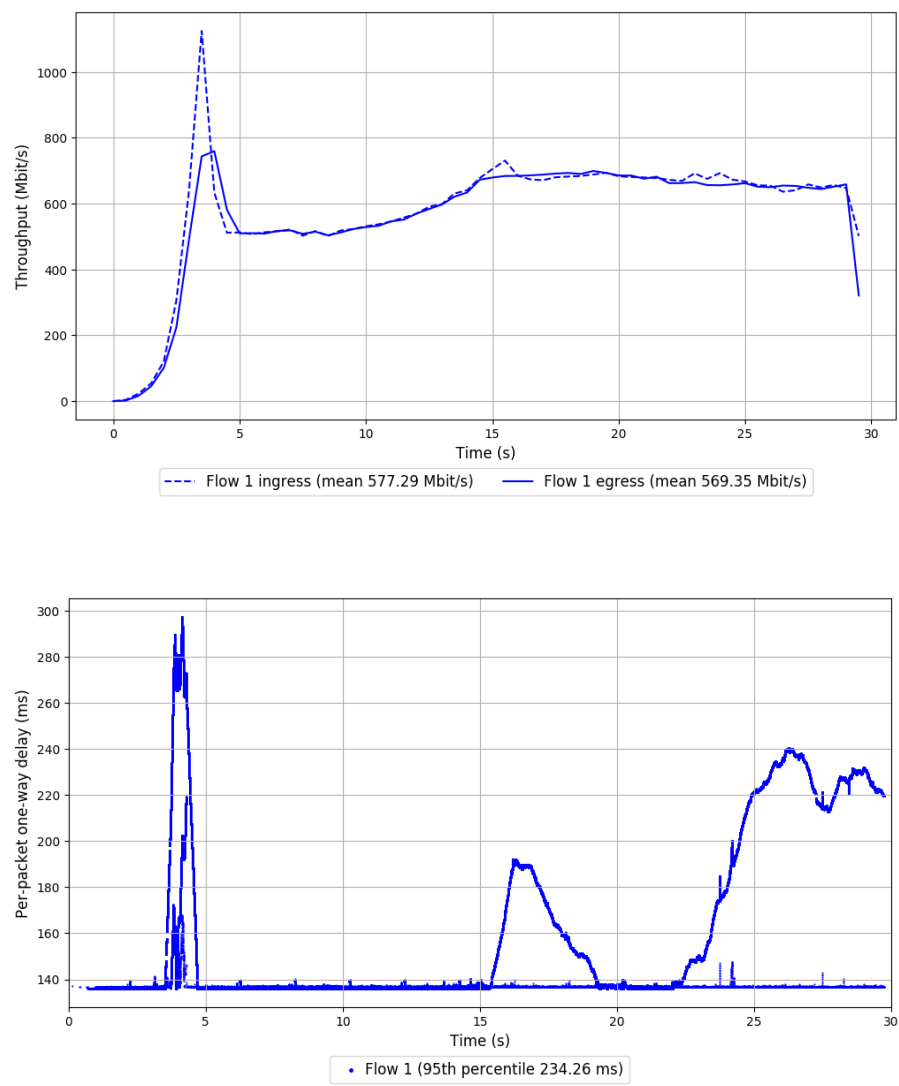
-- Flow 1:

Average throughput: 569.35 Mbit/s

95th percentile per-packet one-way delay: 234.265 ms

Loss rate: 2.28%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-28 01:08:54

End at: 2018-02-28 01:09:24

Below is generated by plot.py at 2018-02-28 05:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 162.907 ms

Loss rate: 3.74%

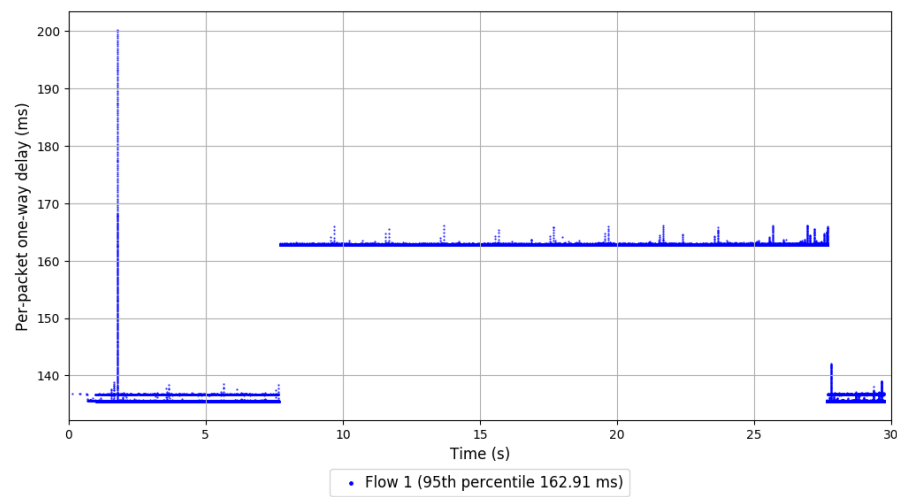
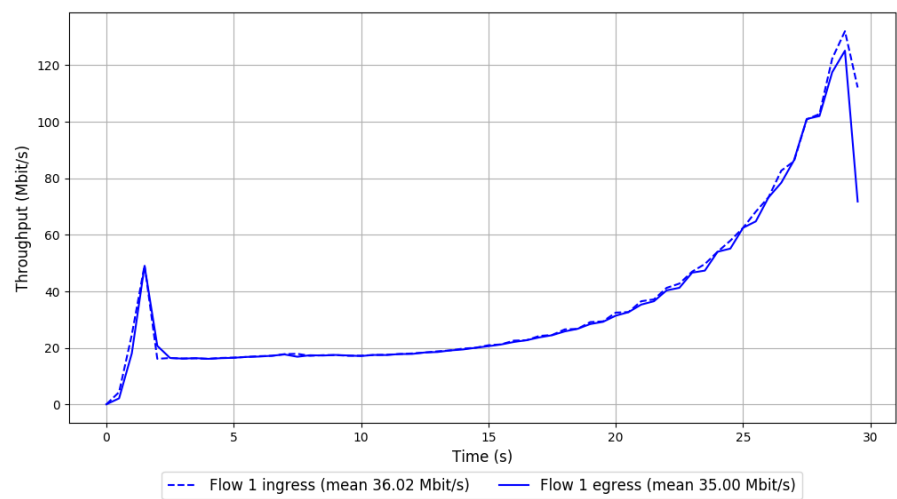
-- Flow 1:

Average throughput: 35.00 Mbit/s

95th percentile per-packet one-way delay: 162.907 ms

Loss rate: 3.74%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-28 01:24:51

End at: 2018-02-28 01:25:21

Below is generated by plot.py at 2018-02-28 05:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 162.987 ms

Loss rate: 1.09%

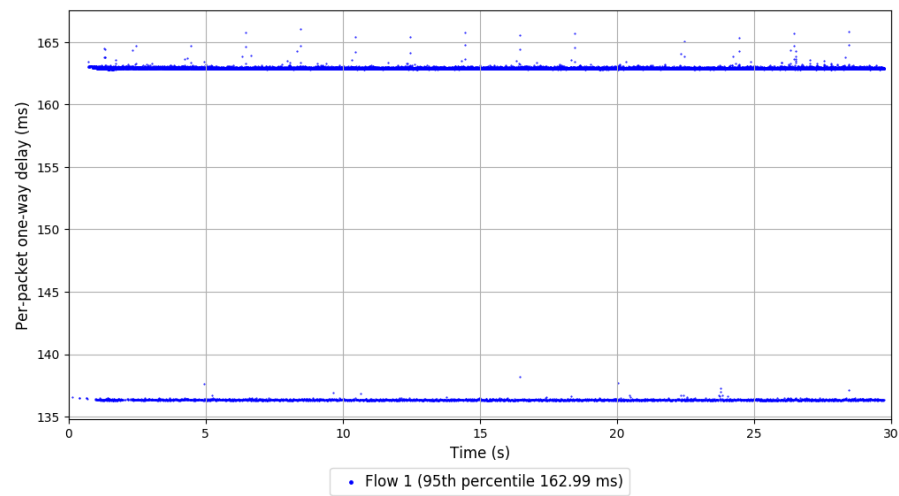
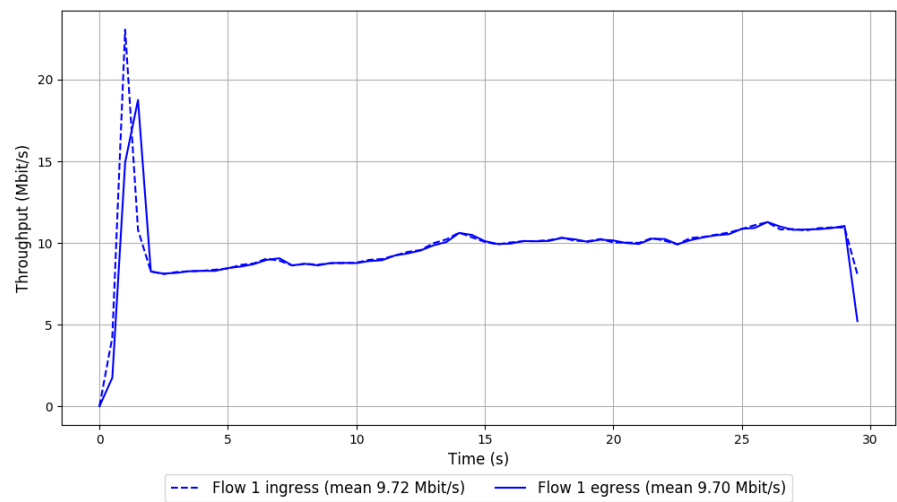
-- Flow 1:

Average throughput: 9.70 Mbit/s

95th percentile per-packet one-way delay: 162.987 ms

Loss rate: 1.09%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-28 01:40:29

End at: 2018-02-28 01:40:59

Below is generated by plot.py at 2018-02-28 05:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.36 Mbit/s

95th percentile per-packet one-way delay: 259.710 ms

Loss rate: 3.47%

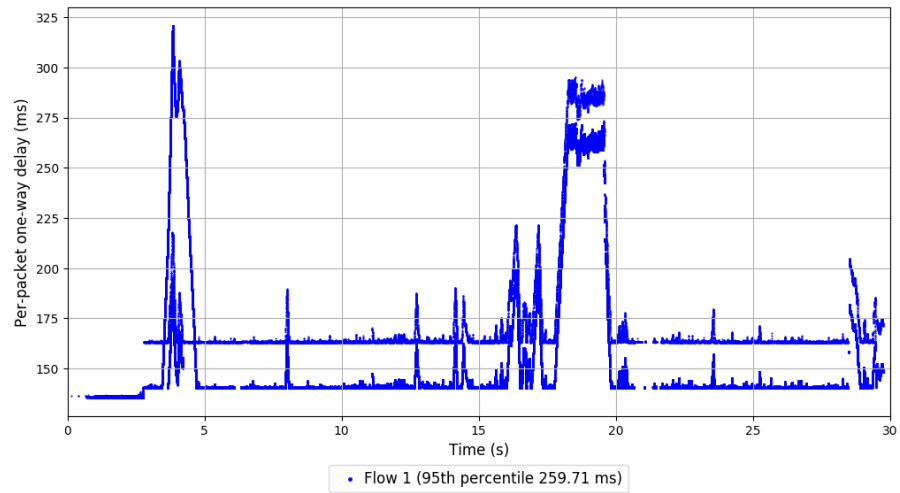
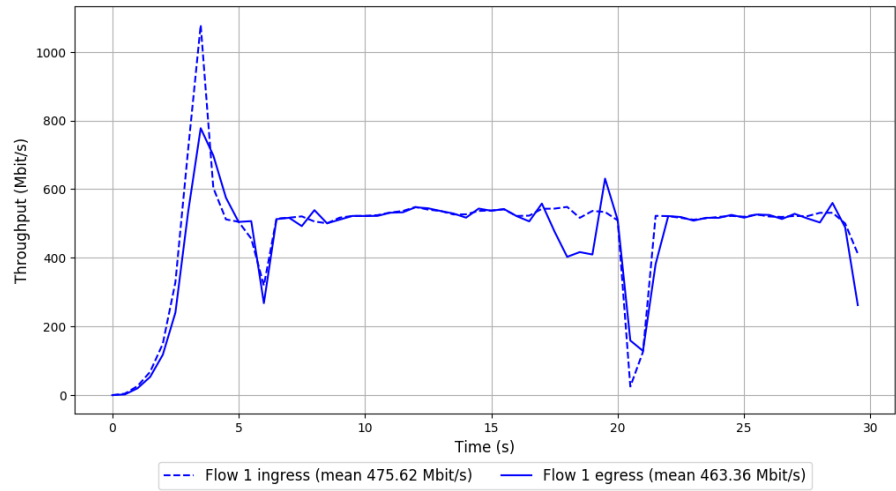
-- Flow 1:

Average throughput: 463.36 Mbit/s

95th percentile per-packet one-way delay: 259.710 ms

Loss rate: 3.47%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-28 01:56:08

End at: 2018-02-28 01:56:38

Below is generated by plot.py at 2018-02-28 05:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.43 Mbit/s

95th percentile per-packet one-way delay: 208.752 ms

Loss rate: 2.44%

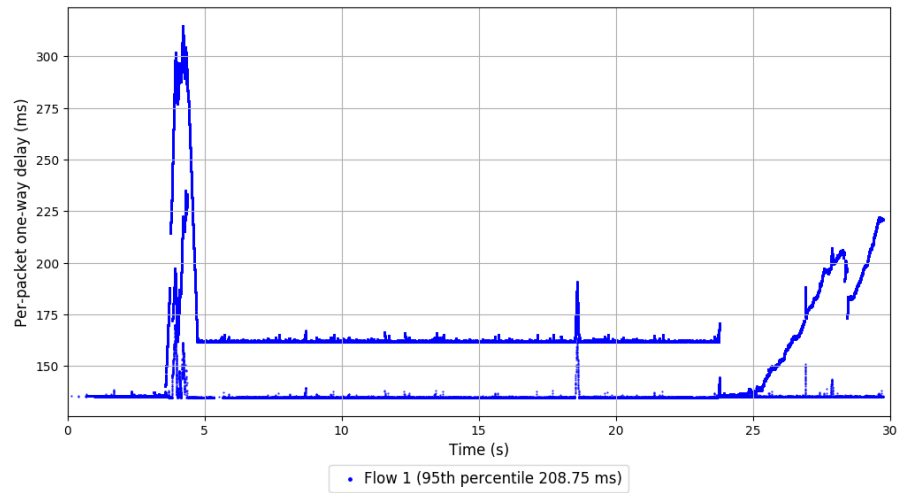
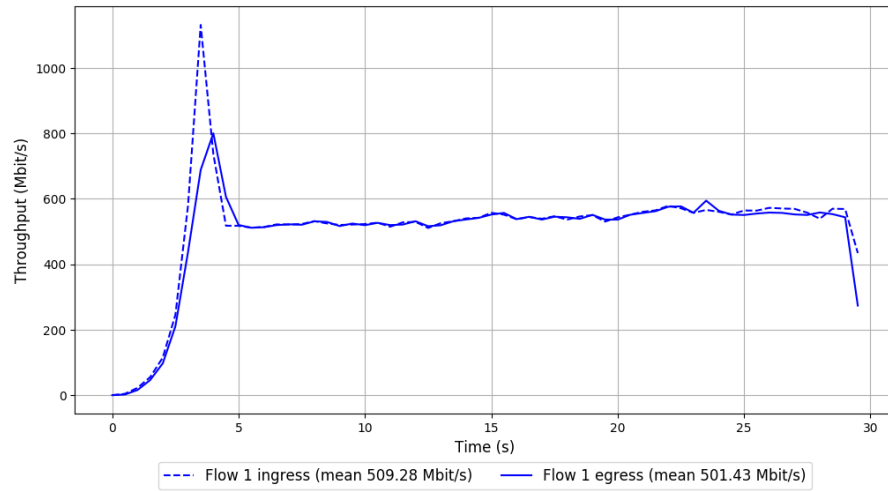
-- Flow 1:

Average throughput: 501.43 Mbit/s

95th percentile per-packet one-way delay: 208.752 ms

Loss rate: 2.44%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-28 02:11:57

End at: 2018-02-28 02:12:27

Below is generated by plot.py at 2018-02-28 05:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.24 Mbit/s

95th percentile per-packet one-way delay: 165.996 ms

Loss rate: 2.11%

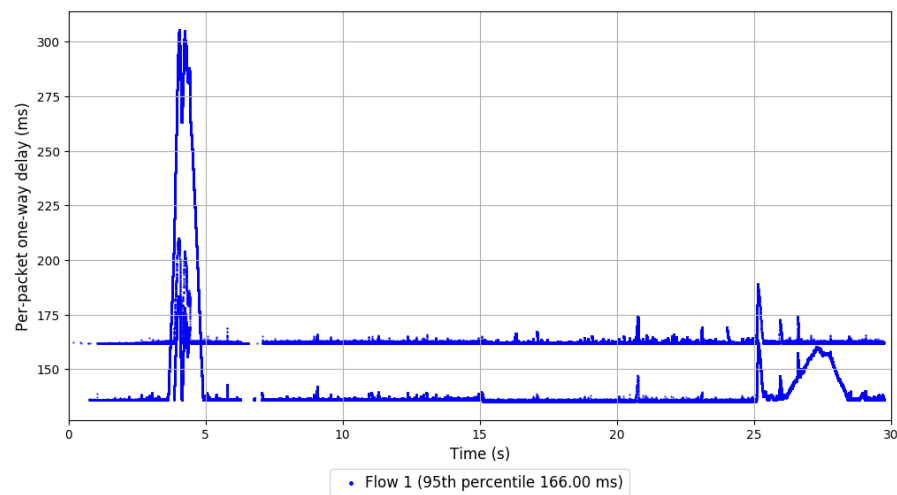
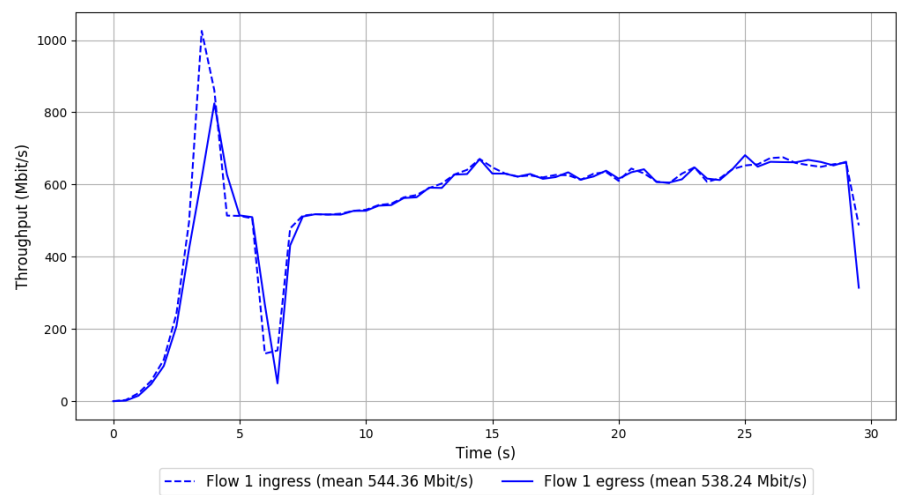
-- Flow 1:

Average throughput: 538.24 Mbit/s

95th percentile per-packet one-way delay: 165.996 ms

Loss rate: 2.11%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-28 02:28:19

End at: 2018-02-28 02:28:49

Below is generated by plot.py at 2018-02-28 05:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 481.51 Mbit/s

95th percentile per-packet one-way delay: 281.333 ms

Loss rate: 6.65%

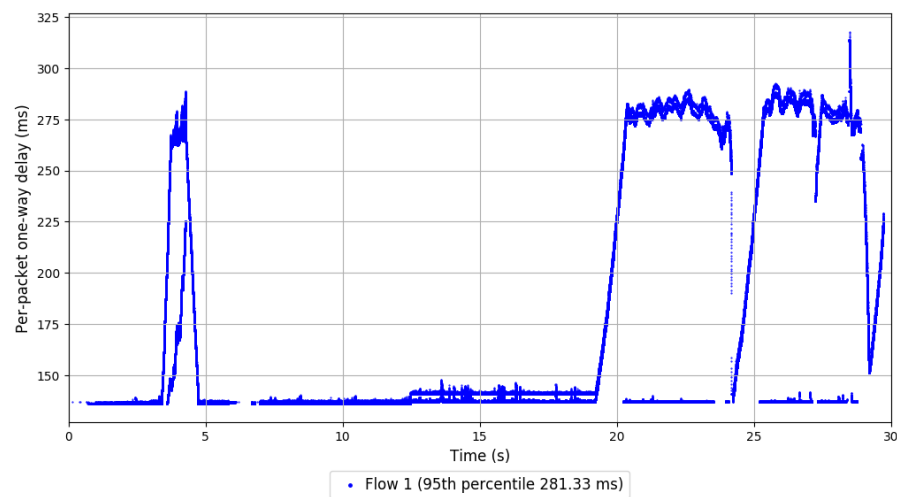
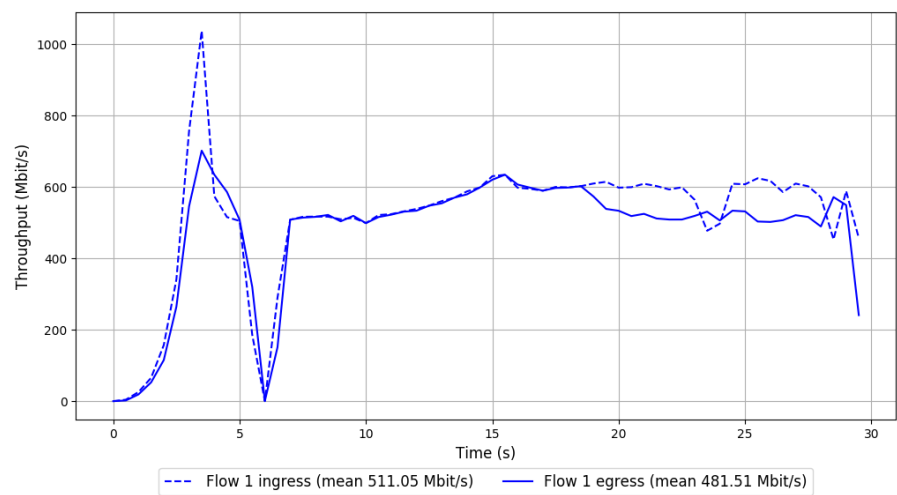
-- Flow 1:

Average throughput: 481.51 Mbit/s

95th percentile per-packet one-way delay: 281.333 ms

Loss rate: 6.65%

Run 10: Report of PCC — Data Link

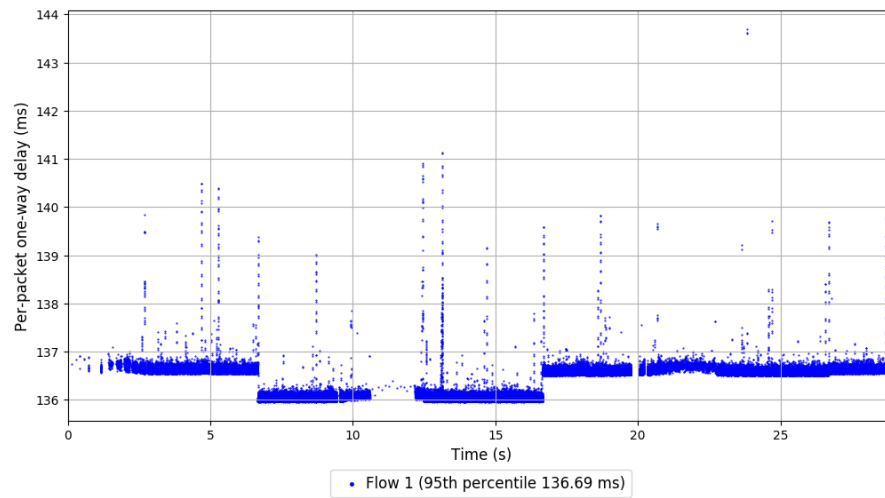
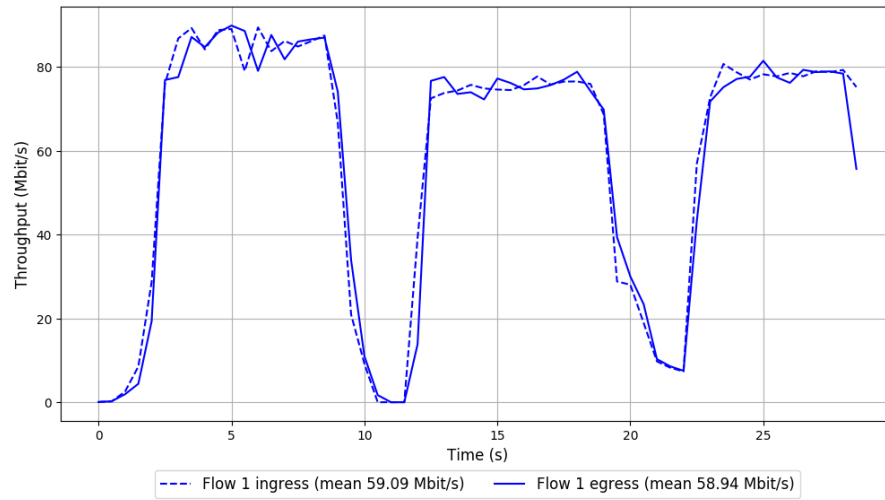


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-28 00:13:14
End at: 2018-02-28 00:13:44

# Below is generated by plot.py at 2018-02-28 05:41:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.94 Mbit/s
95th percentile per-packet one-way delay: 136.691 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 58.94 Mbit/s
95th percentile per-packet one-way delay: 136.691 ms
Loss rate: 1.21%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-28 00:29:36

End at: 2018-02-28 00:30:06

Below is generated by plot.py at 2018-02-28 05:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.57 Mbit/s

95th percentile per-packet one-way delay: 140.365 ms

Loss rate: 1.44%

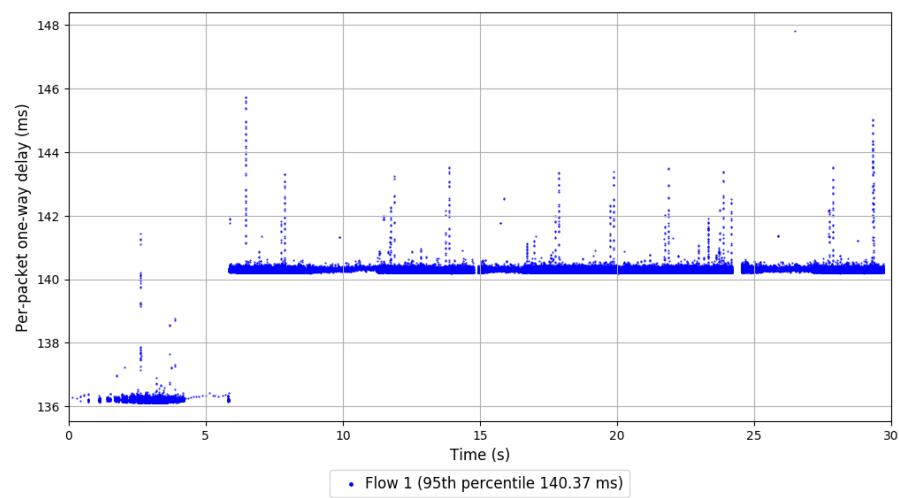
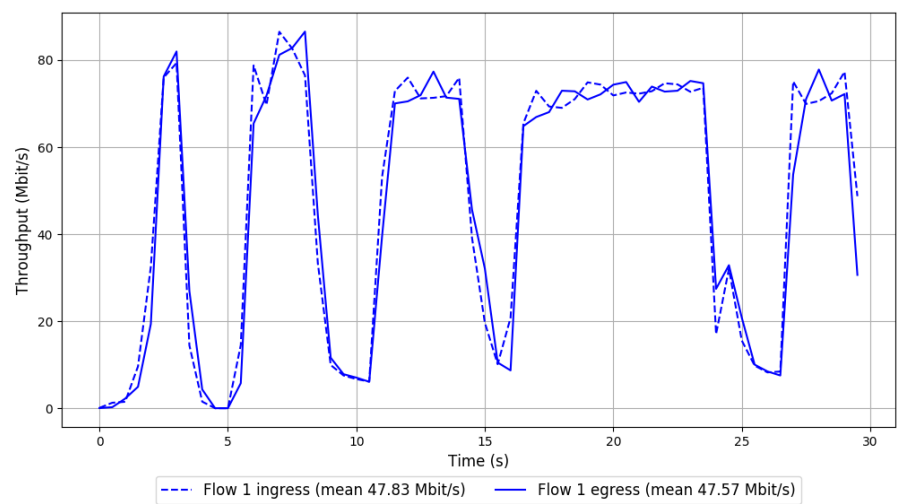
-- Flow 1:

Average throughput: 47.57 Mbit/s

95th percentile per-packet one-way delay: 140.365 ms

Loss rate: 1.44%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-28 00:45:54

End at: 2018-02-28 00:46:24

Below is generated by plot.py at 2018-02-28 05:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.88 Mbit/s

95th percentile per-packet one-way delay: 162.594 ms

Loss rate: 1.22%

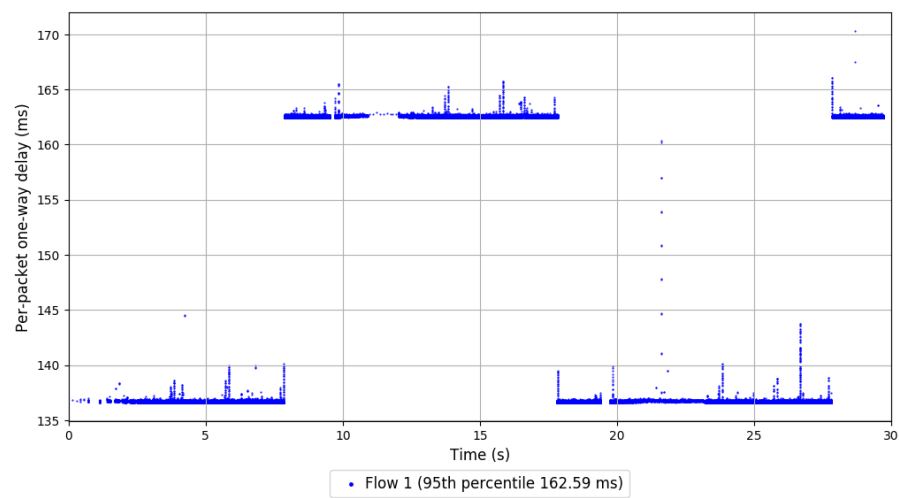
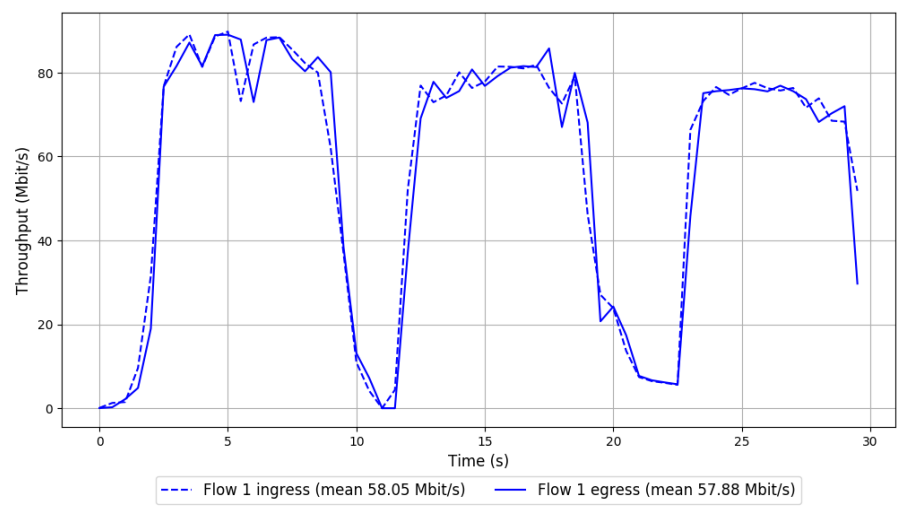
-- Flow 1:

Average throughput: 57.88 Mbit/s

95th percentile per-packet one-way delay: 162.594 ms

Loss rate: 1.22%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-28 01:01:44

End at: 2018-02-28 01:02:14

Below is generated by plot.py at 2018-02-28 05:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.19 Mbit/s

95th percentile per-packet one-way delay: 162.554 ms

Loss rate: 1.10%

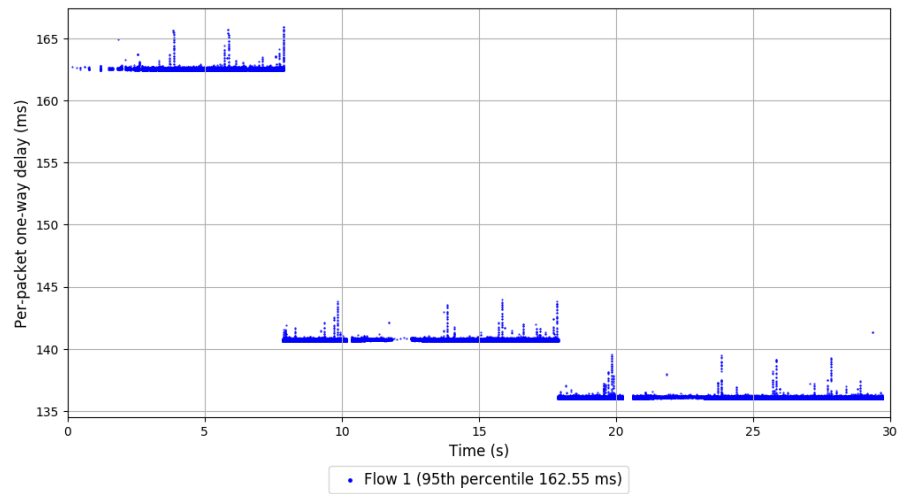
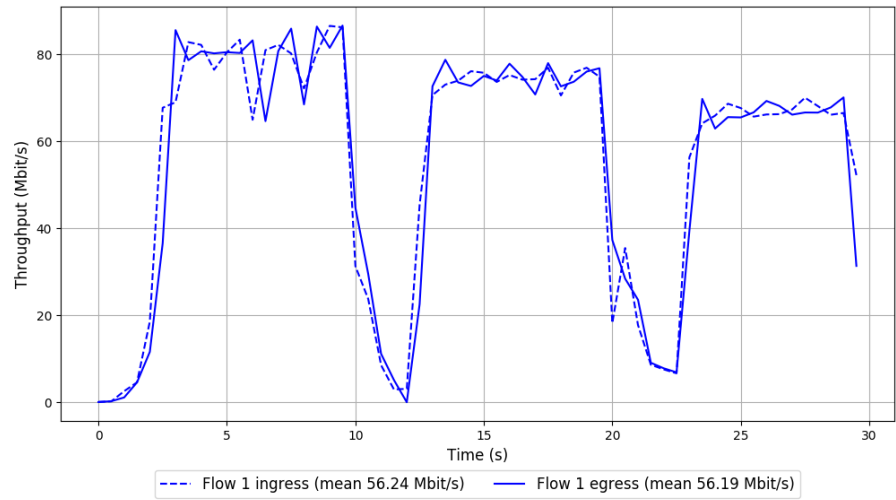
-- Flow 1:

Average throughput: 56.19 Mbit/s

95th percentile per-packet one-way delay: 162.554 ms

Loss rate: 1.10%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-28 01:17:17

End at: 2018-02-28 01:17:47

Below is generated by plot.py at 2018-02-28 05:41:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 161.300 ms

Loss rate: 1.11%

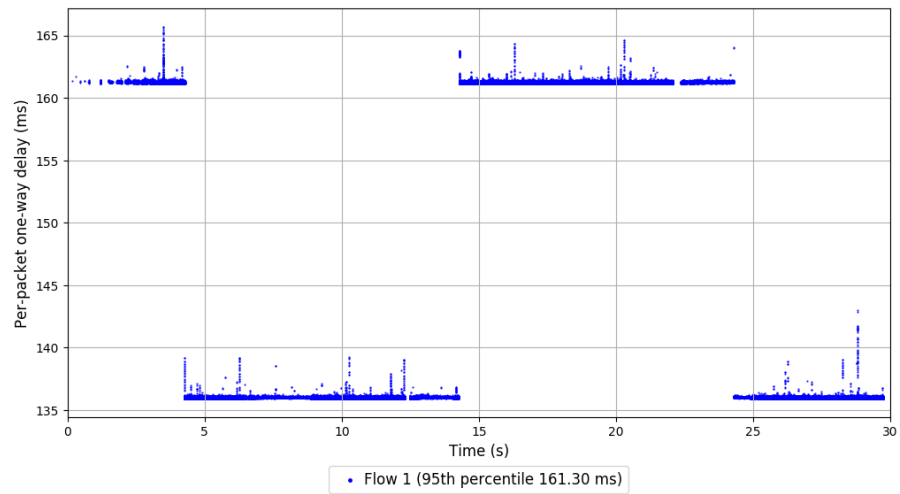
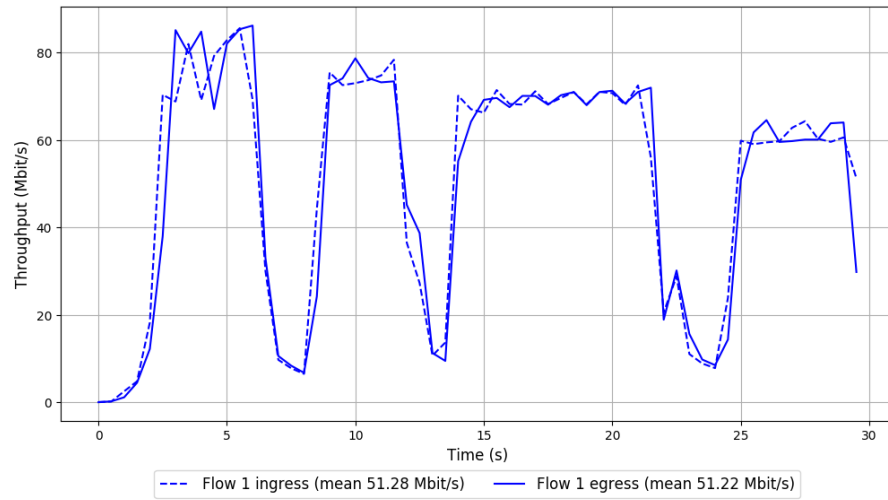
-- Flow 1:

Average throughput: 51.22 Mbit/s

95th percentile per-packet one-way delay: 161.300 ms

Loss rate: 1.11%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-28 01:33:02

End at: 2018-02-28 01:33:32

Below is generated by plot.py at 2018-02-28 05:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 136.685 ms

Loss rate: 0.94%

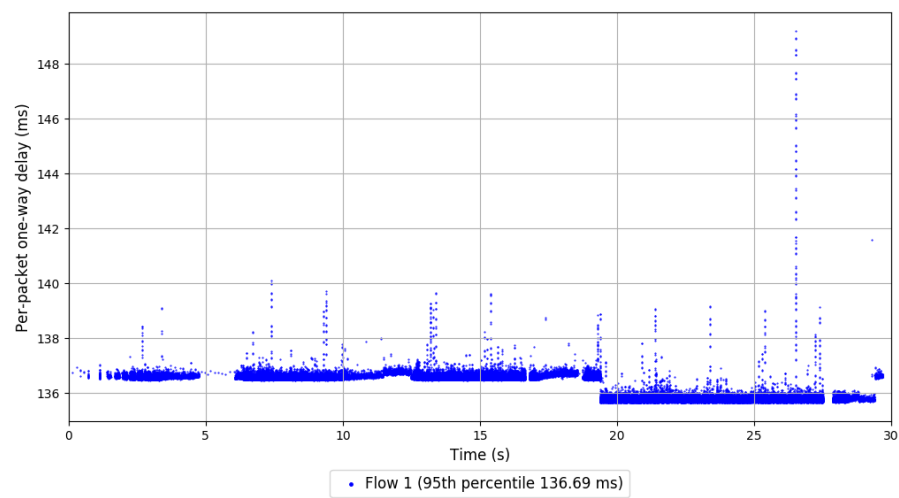
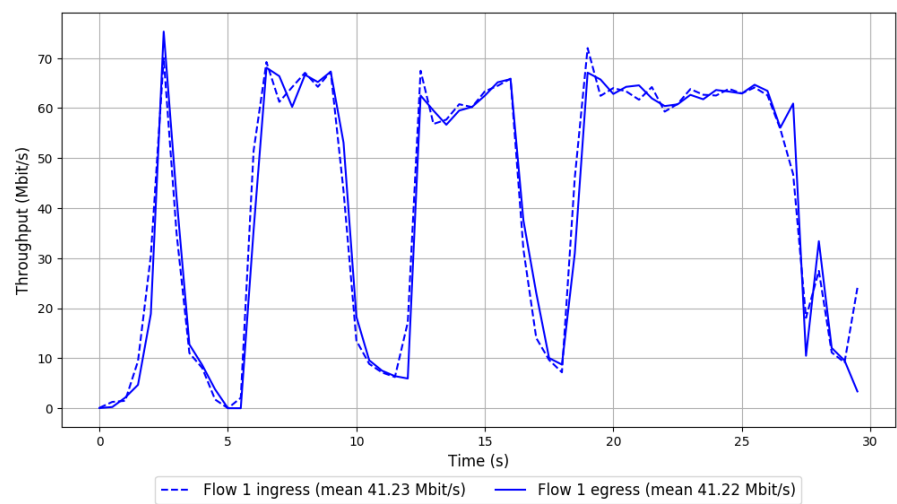
-- Flow 1:

Average throughput: 41.22 Mbit/s

95th percentile per-packet one-way delay: 136.685 ms

Loss rate: 0.94%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-28 01:49:03

End at: 2018-02-28 01:49:33

Below is generated by plot.py at 2018-02-28 05:42:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.01 Mbit/s

95th percentile per-packet one-way delay: 163.161 ms

Loss rate: 1.21%

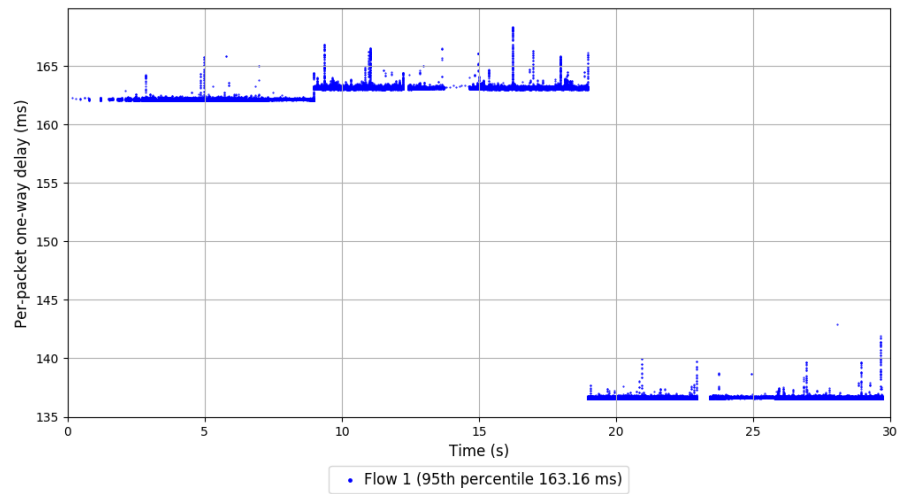
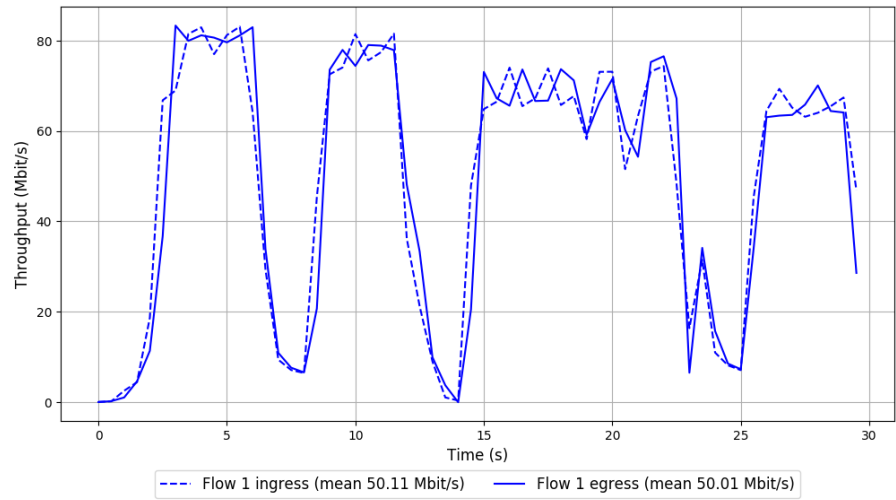
-- Flow 1:

Average throughput: 50.01 Mbit/s

95th percentile per-packet one-way delay: 163.161 ms

Loss rate: 1.21%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-28 02:04:34

End at: 2018-02-28 02:05:04

Below is generated by plot.py at 2018-02-28 05:42:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.58 Mbit/s

95th percentile per-packet one-way delay: 163.127 ms

Loss rate: 1.24%

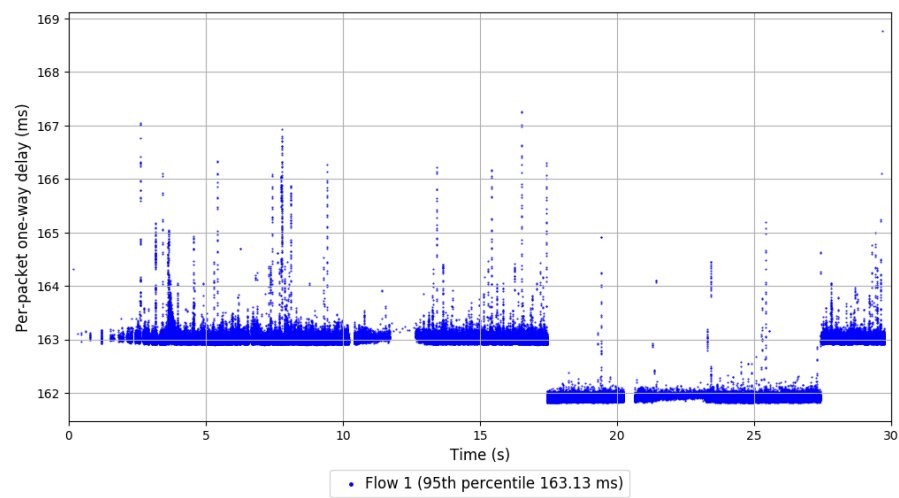
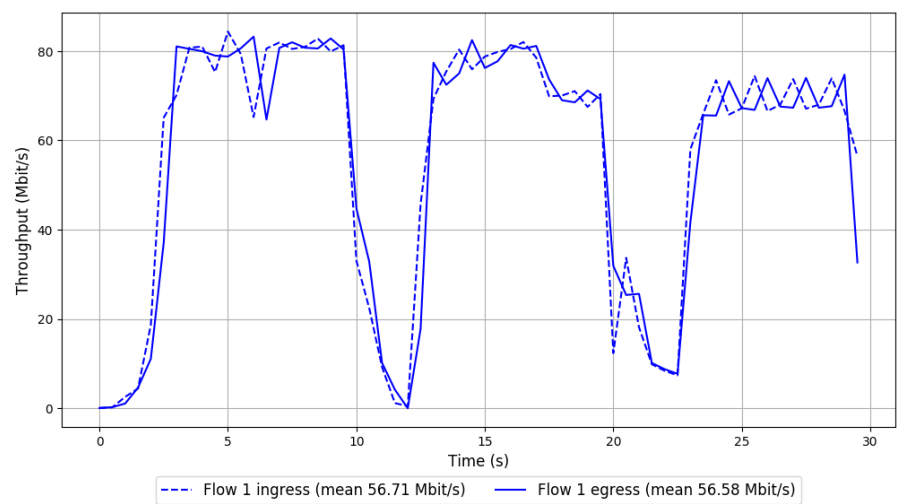
-- Flow 1:

Average throughput: 56.58 Mbit/s

95th percentile per-packet one-way delay: 163.127 ms

Loss rate: 1.24%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-28 02:20:42

End at: 2018-02-28 02:21:12

Below is generated by plot.py at 2018-02-28 05:42:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.57 Mbit/s

95th percentile per-packet one-way delay: 162.059 ms

Loss rate: 1.32%

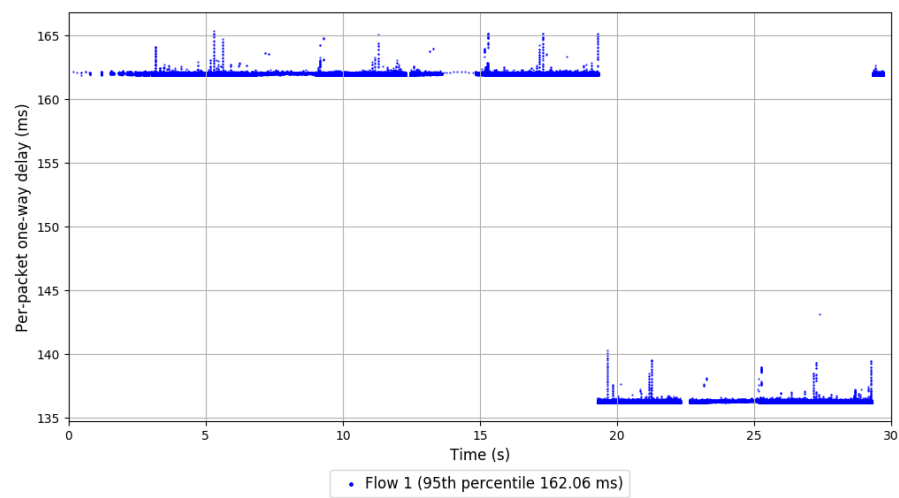
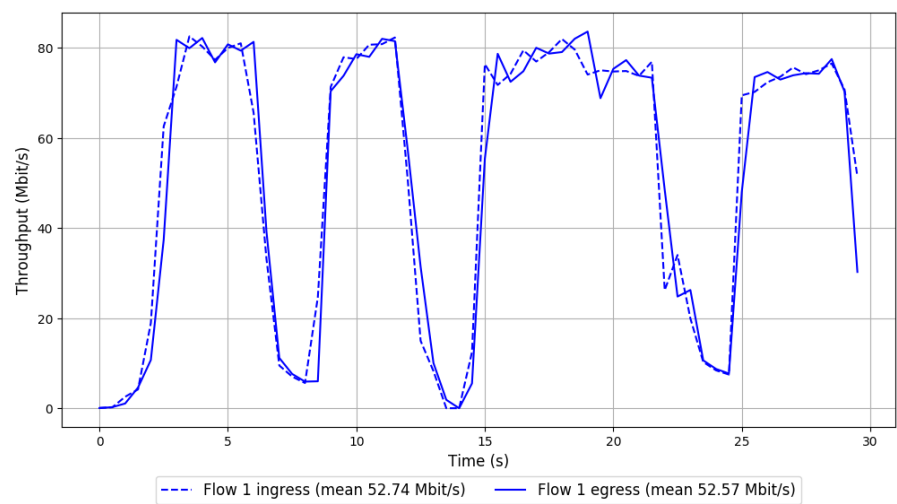
-- Flow 1:

Average throughput: 52.57 Mbit/s

95th percentile per-packet one-way delay: 162.059 ms

Loss rate: 1.32%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-28 02:36:58

End at: 2018-02-28 02:37:28

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.58 Mbit/s

95th percentile per-packet one-way delay: 161.408 ms

Loss rate: 1.32%

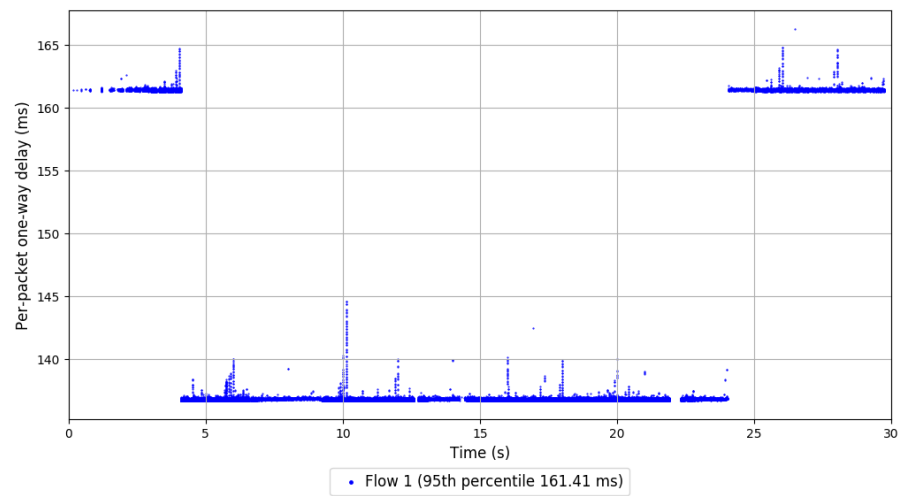
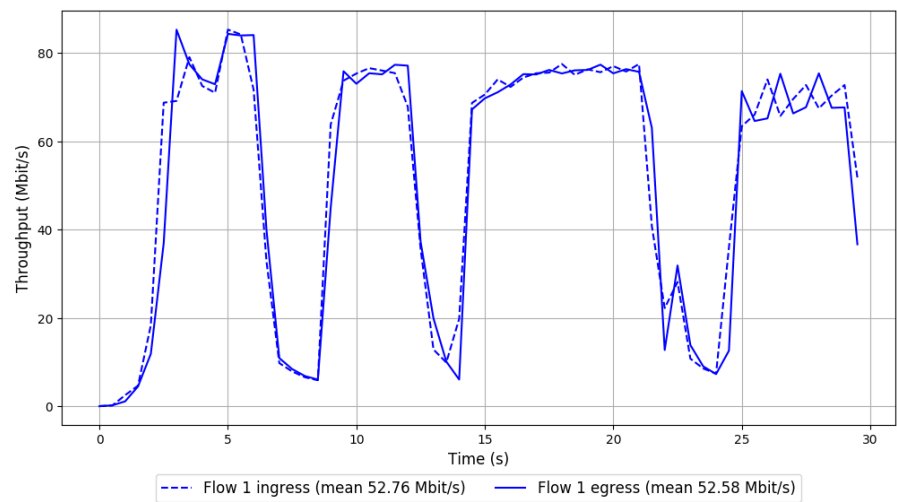
-- Flow 1:

Average throughput: 52.58 Mbit/s

95th percentile per-packet one-way delay: 161.408 ms

Loss rate: 1.32%

Run 10: Report of QUIC Cubic — Data Link

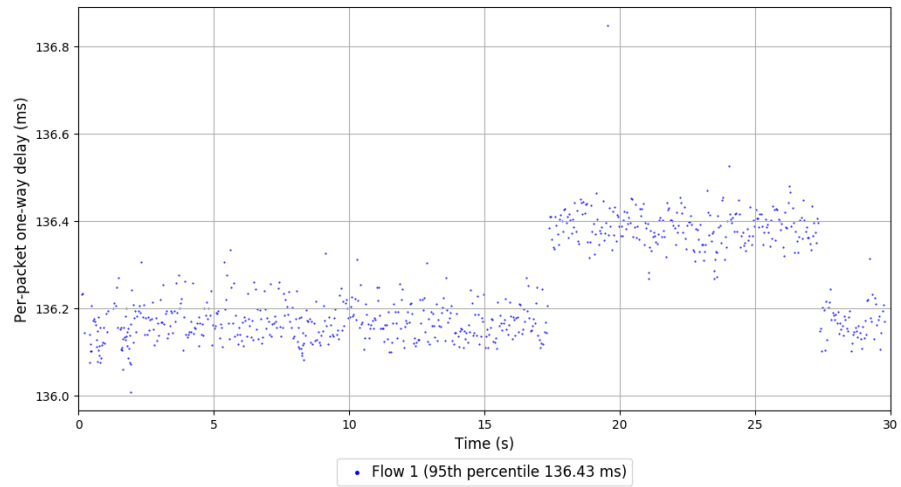
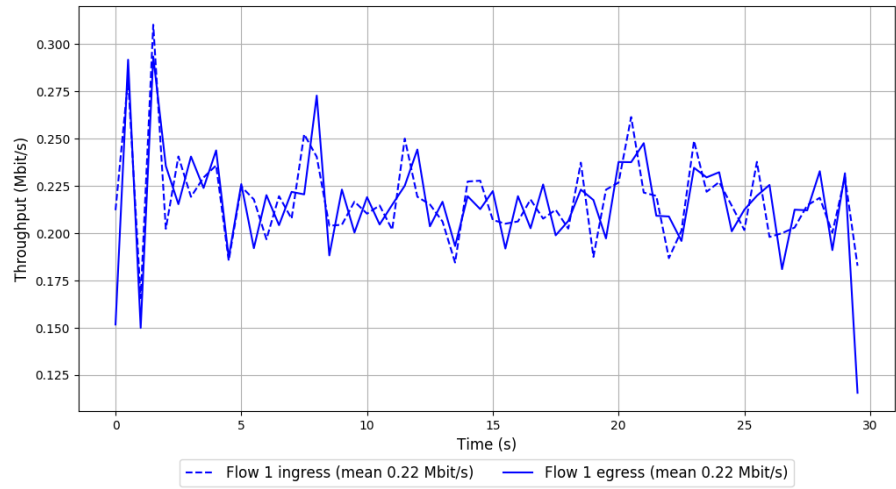


```
Run 1: Statistics of SCReAM

Start at: 2018-02-28 00:11:44
End at: 2018-02-28 00:12:14

# Below is generated by plot.py at 2018-02-28 05:42:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.427 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.427 ms
Loss rate: 0.89%
```

Run 1: Report of SReAM — Data Link

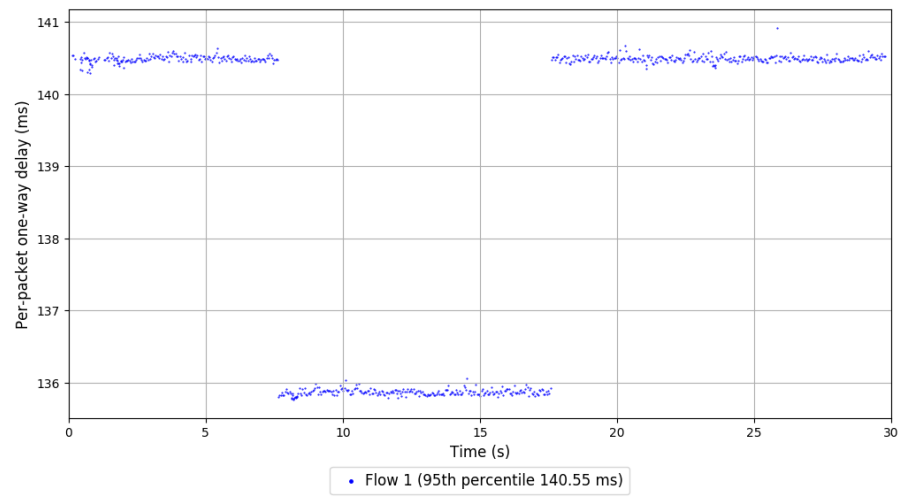
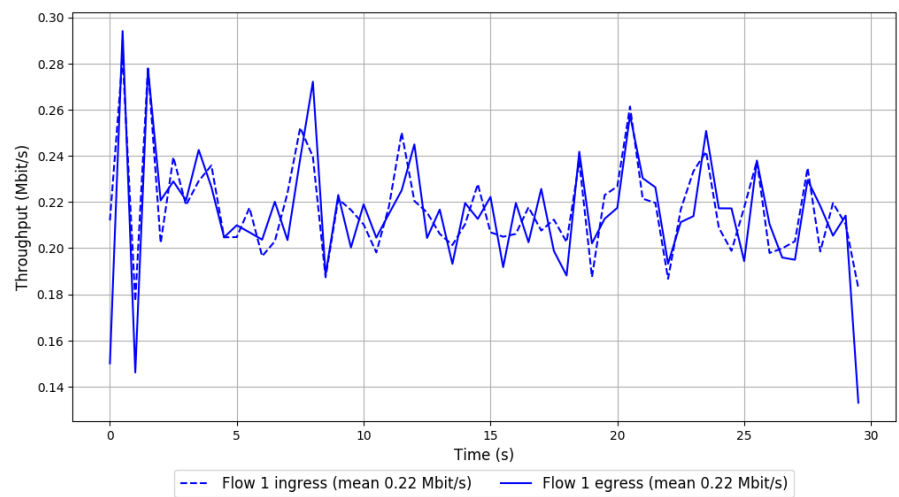


```
Run 2: Statistics of SCReAM

Start at: 2018-02-28 00:28:04
End at: 2018-02-28 00:28:34

# Below is generated by plot.py at 2018-02-28 05:42:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 140.549 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 140.549 ms
Loss rate: 0.90%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-28 00:44:22

End at: 2018-02-28 00:44:52

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 0.89%

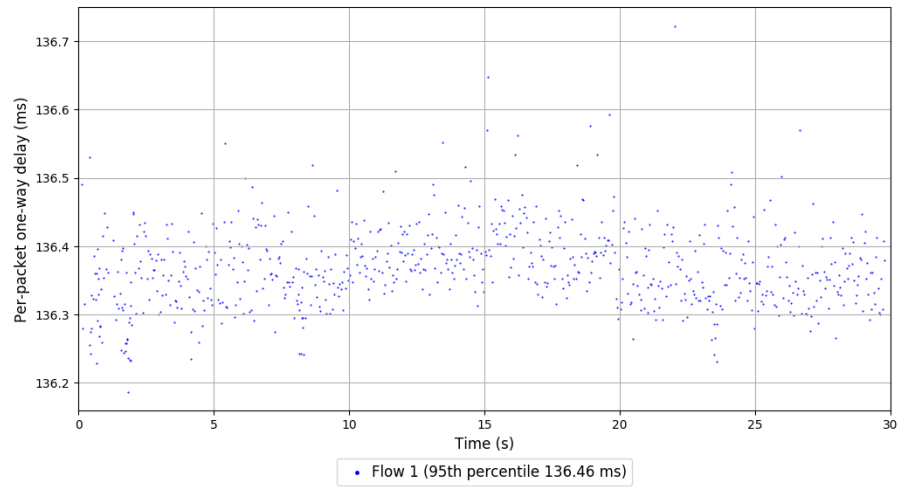
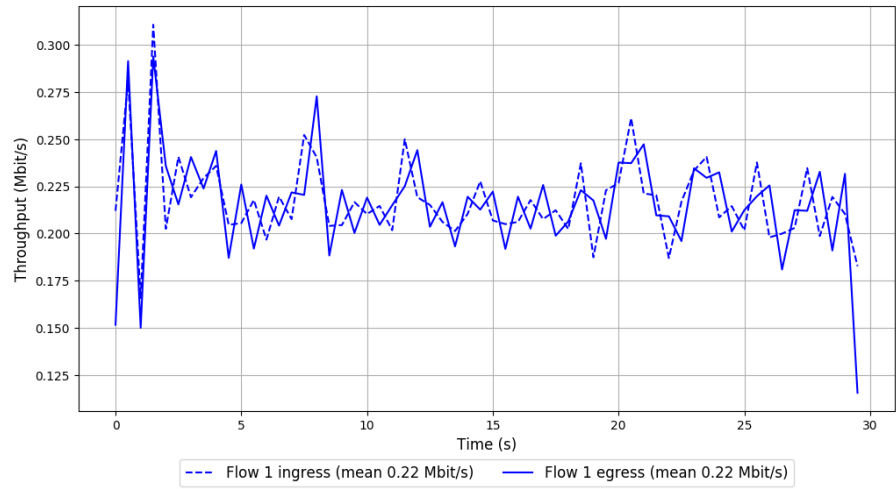
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.459 ms

Loss rate: 0.89%

Run 3: Report of SCRaM — Data Link

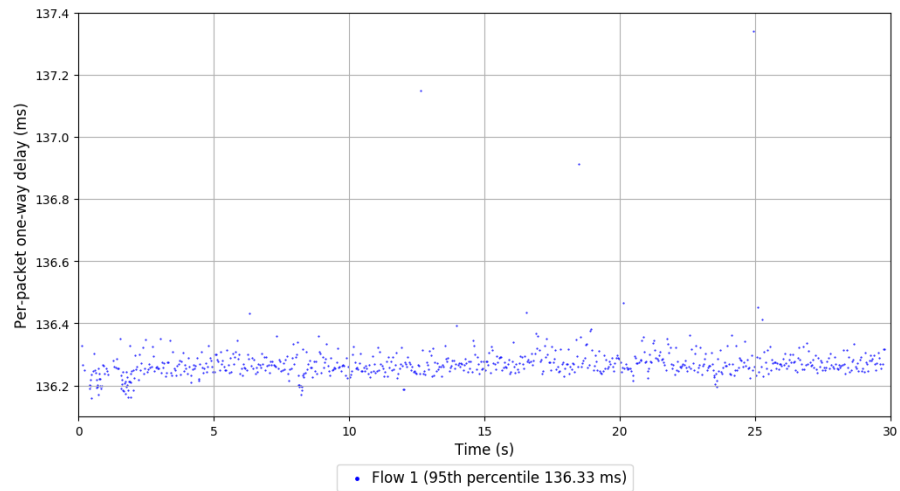
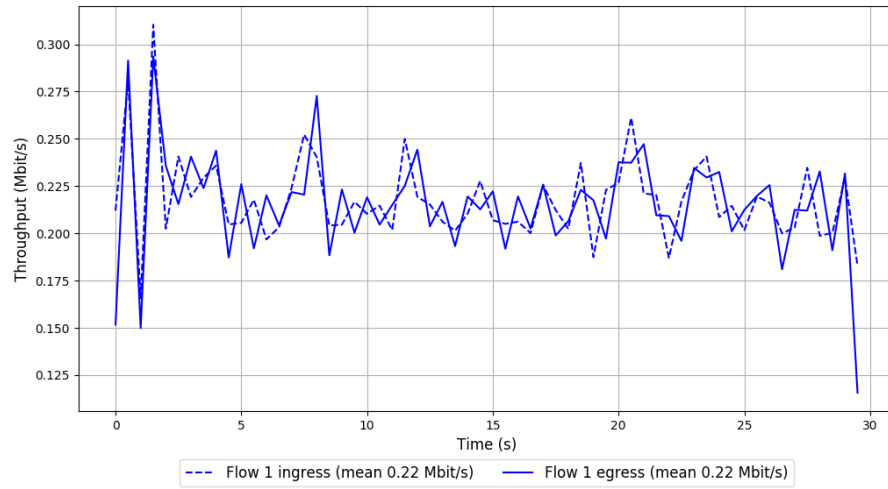


```
Run 4: Statistics of SCReAM

Start at: 2018-02-28 01:00:12
End at: 2018-02-28 01:00:42

# Below is generated by plot.py at 2018-02-28 05:42:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.333 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.333 ms
Loss rate: 0.89%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-28 01:15:45

End at: 2018-02-28 01:16:15

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.825 ms

Loss rate: 0.89%

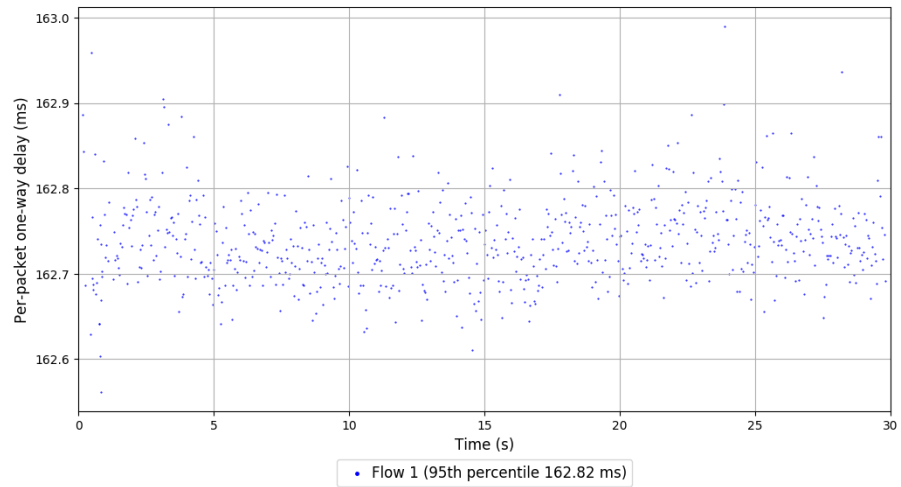
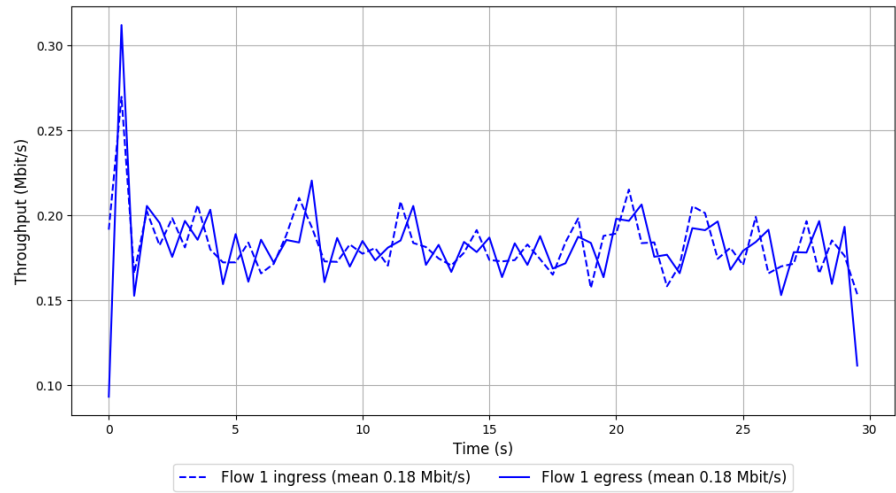
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 162.825 ms

Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-28 01:31:34

End at: 2018-02-28 01:32:04

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.735 ms

Loss rate: 0.89%

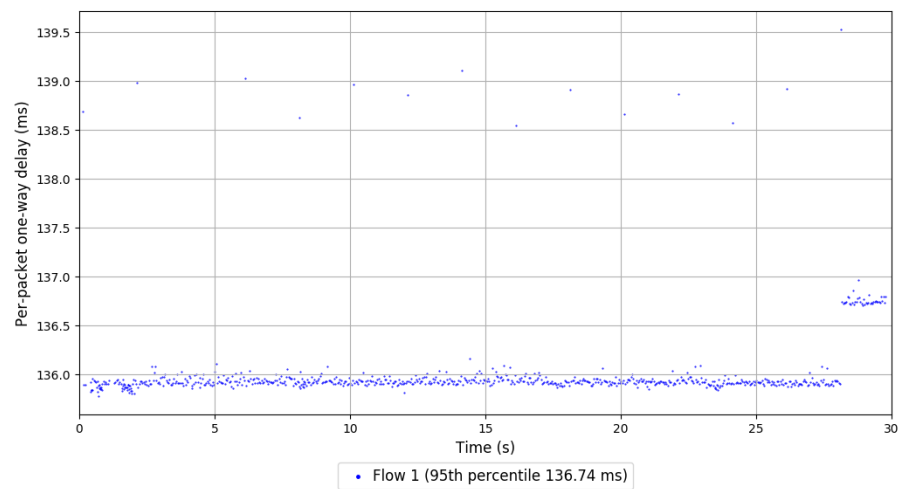
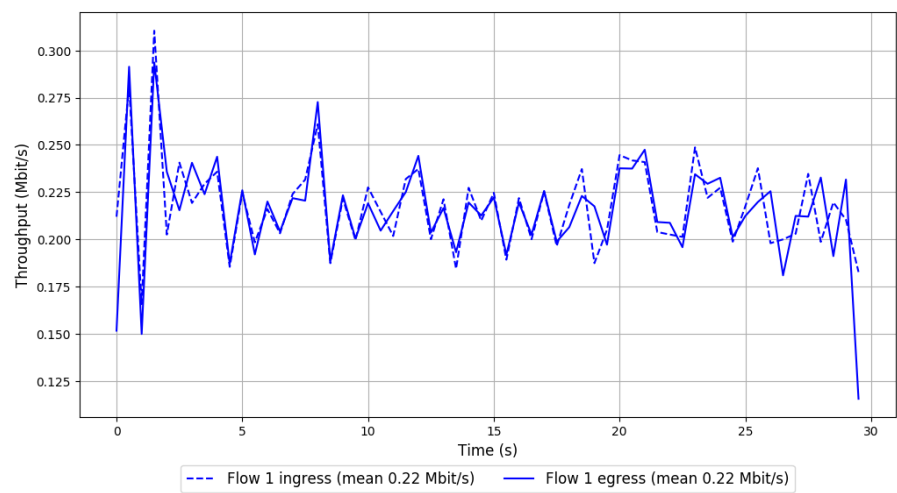
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.735 ms

Loss rate: 0.89%

Run 6: Report of SReAM — Data Link

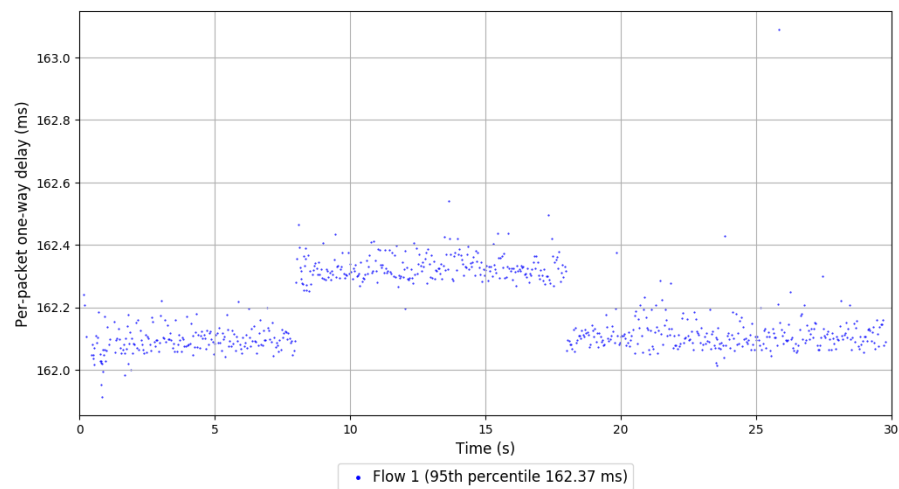
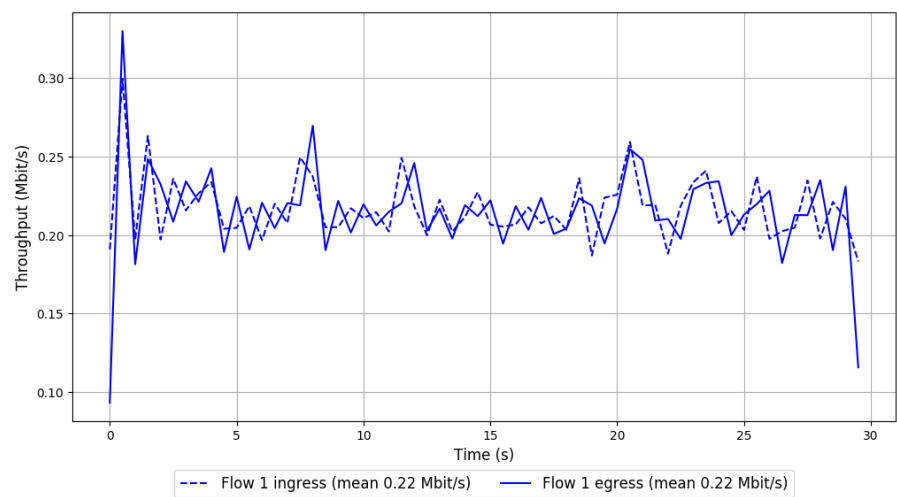


```
Run 7: Statistics of SCReAM

Start at: 2018-02-28 01:47:34
End at: 2018-02-28 01:48:04

# Below is generated by plot.py at 2018-02-28 05:42:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.372 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 162.372 ms
Loss rate: 1.03%
```


Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-28 02:03:06

End at: 2018-02-28 02:03:36

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.484 ms

Loss rate: 0.89%

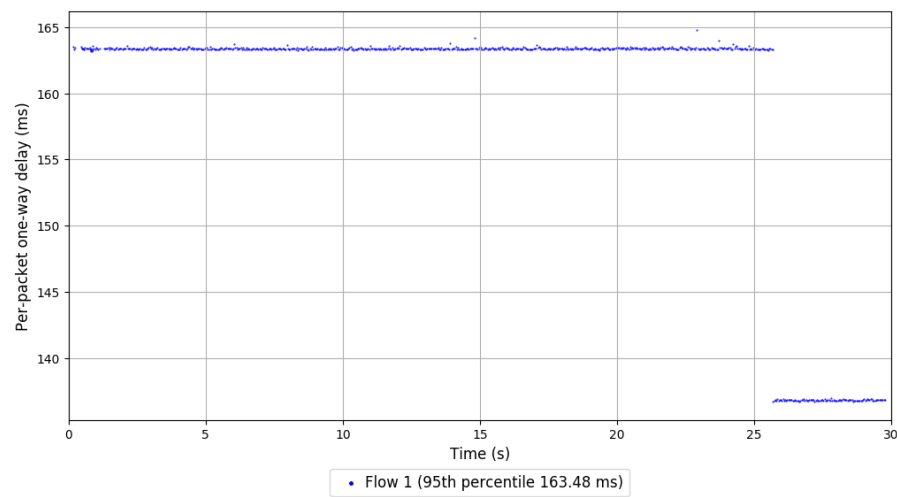
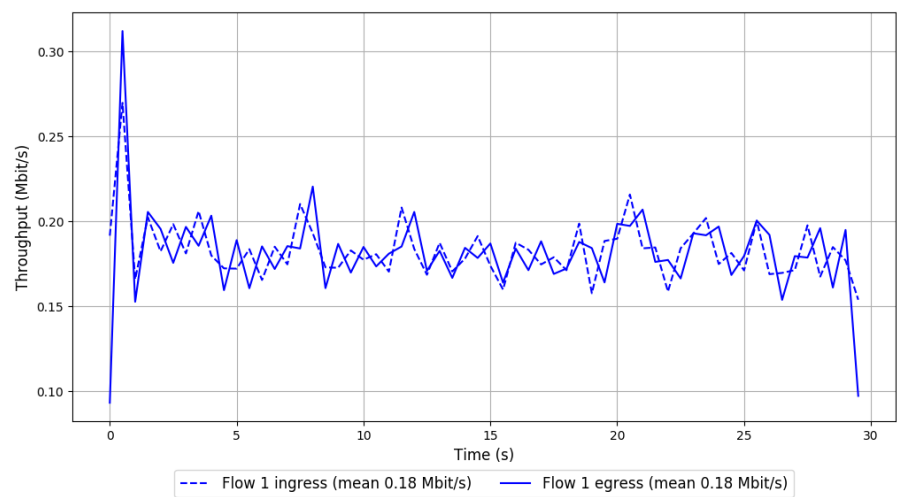
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 163.484 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-28 02:19:12

End at: 2018-02-28 02:19:42

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.975 ms

Loss rate: 0.89%

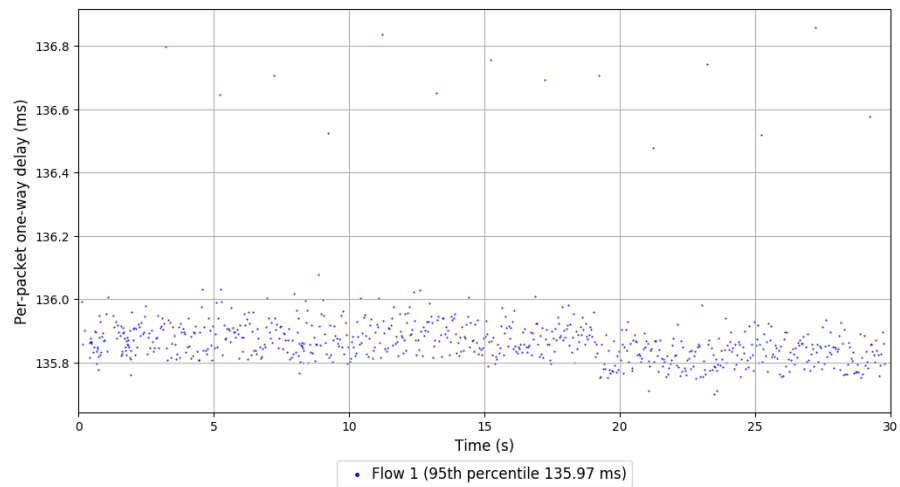
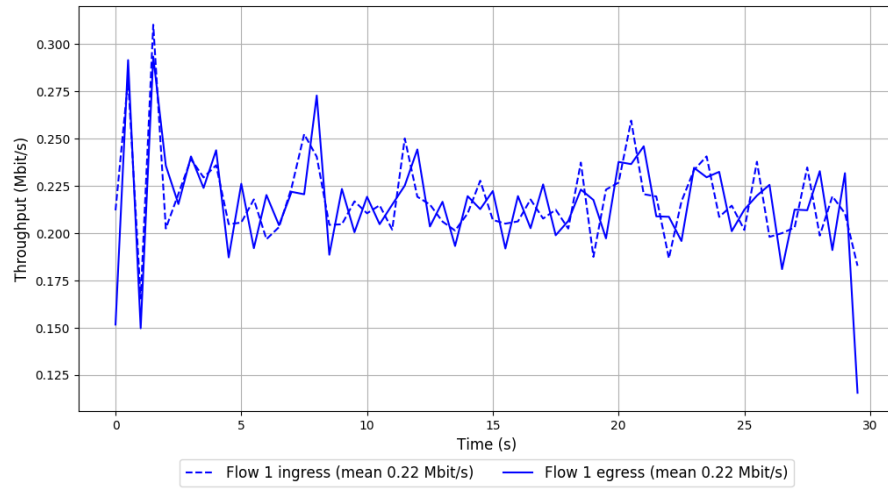
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.975 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-02-28 02:35:27

End at: 2018-02-28 02:35:57

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.420 ms

Loss rate: 0.76%

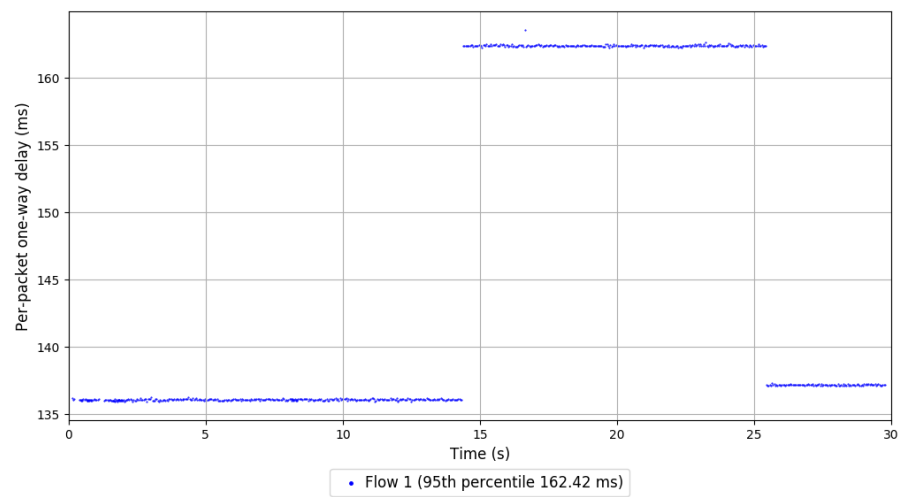
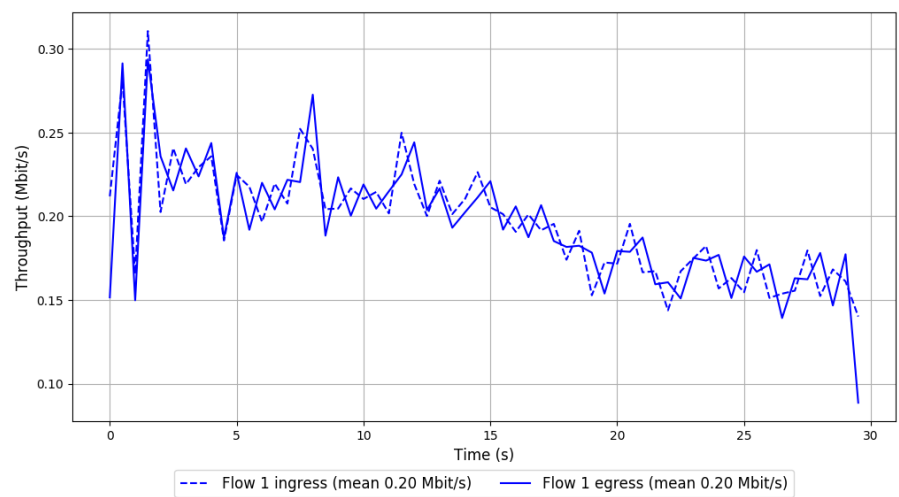
-- Flow 1:

Average throughput: 0.20 Mbit/s

95th percentile per-packet one-way delay: 162.420 ms

Loss rate: 0.76%

Run 10: Report of SReAM — Data Link

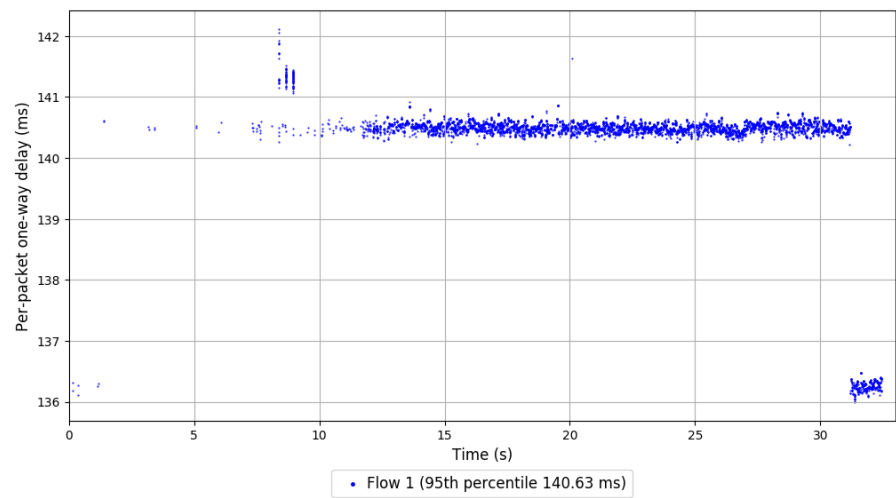
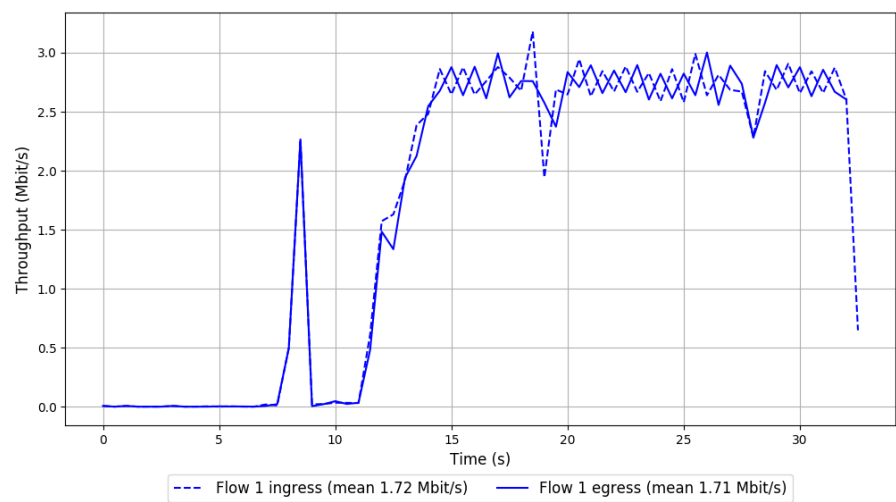


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-28 00:07:33
End at: 2018-02-28 00:08:03

# Below is generated by plot.py at 2018-02-28 05:42:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 140.635 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 1.71 Mbit/s
95th percentile per-packet one-way delay: 140.635 ms
Loss rate: 1.36%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-28 00:23:56

End at: 2018-02-28 00:24:26

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.423 ms

Loss rate: 0.94%

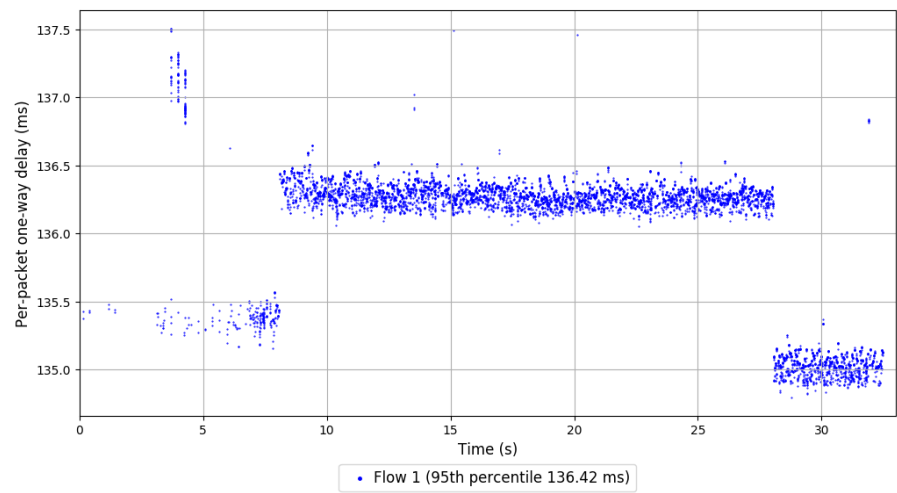
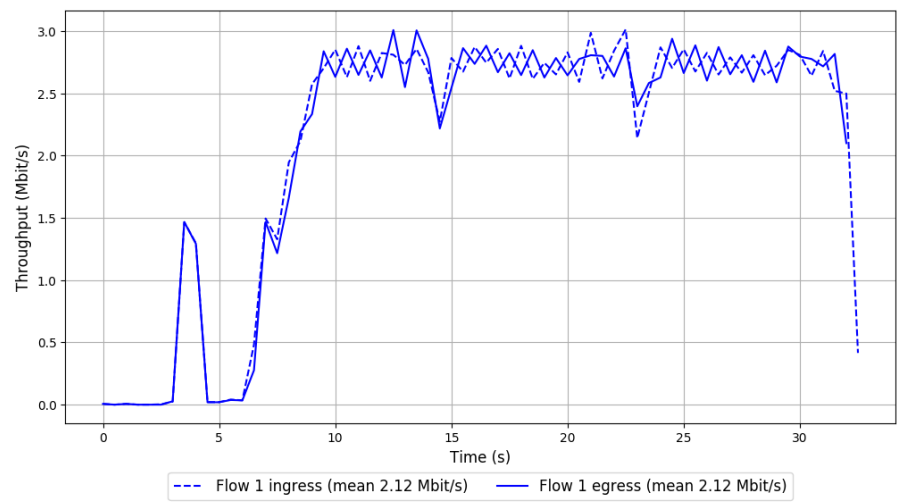
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.423 ms

Loss rate: 0.94%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-28 00:40:13

End at: 2018-02-28 00:40:43

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 163.082 ms

Loss rate: 1.08%

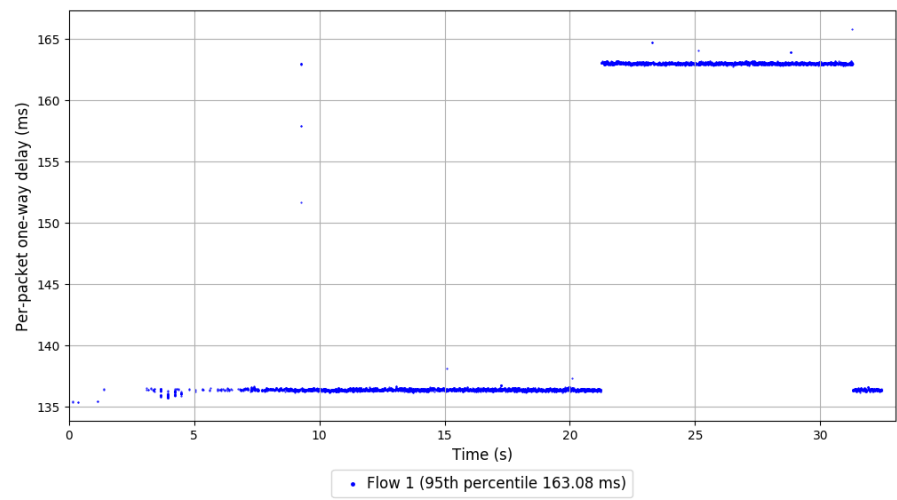
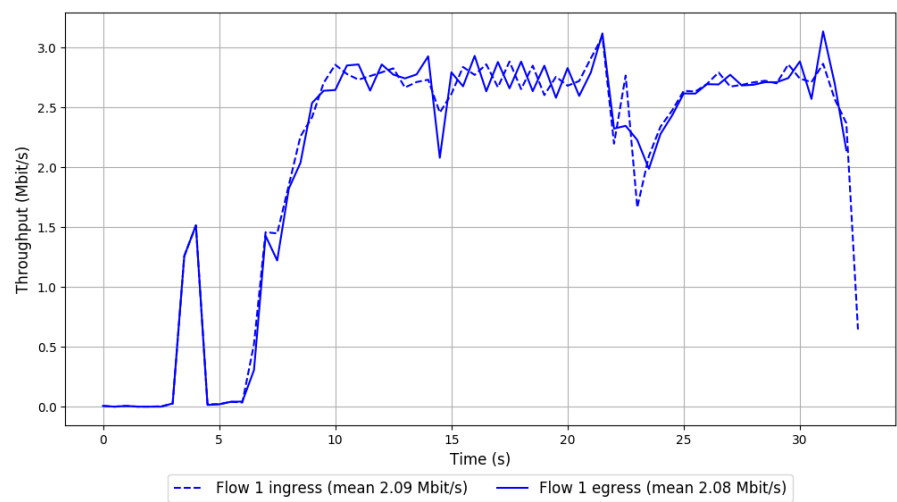
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 163.082 ms

Loss rate: 1.08%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-28 00:56:17

End at: 2018-02-28 00:56:47

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.01%

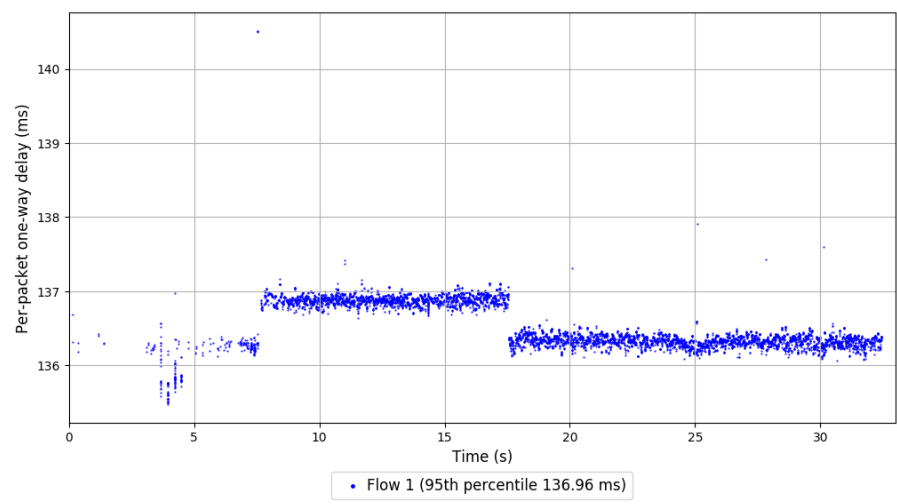
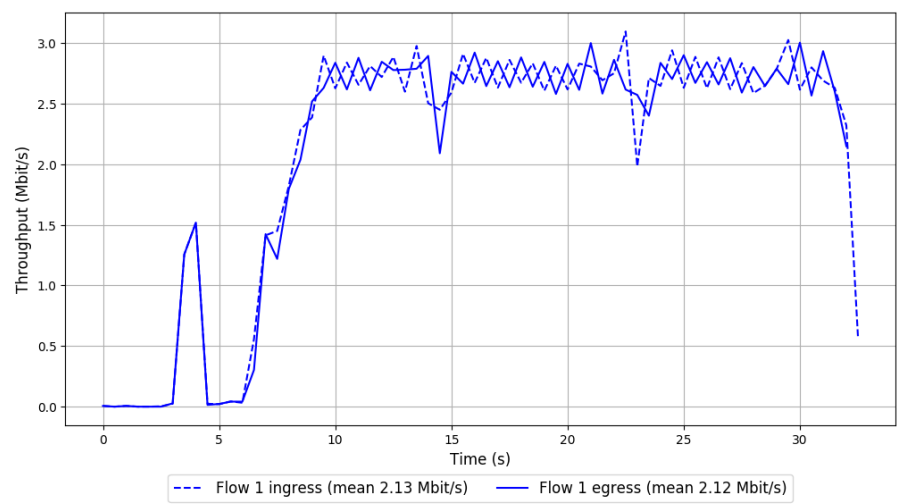
-- Flow 1:

Average throughput: 2.12 Mbit/s

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

Loss rate: 1.01%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-28 01:11:39

End at: 2018-02-28 01:12:09

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 163.112 ms

Loss rate: 1.01%

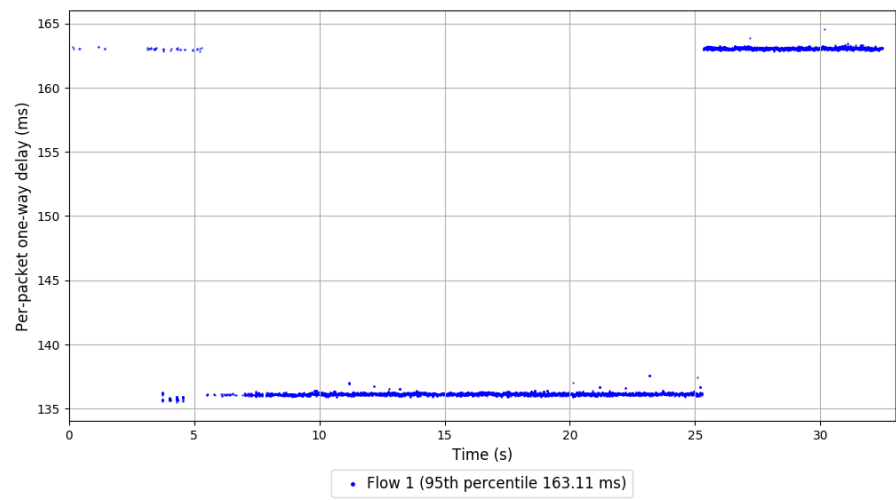
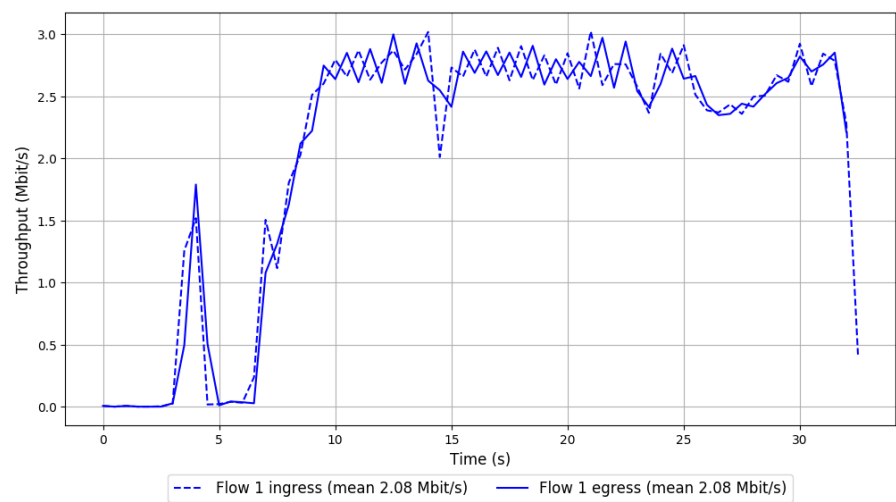
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 163.112 ms

Loss rate: 1.01%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-28 01:27:35

End at: 2018-02-28 01:28:05

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 1.03%

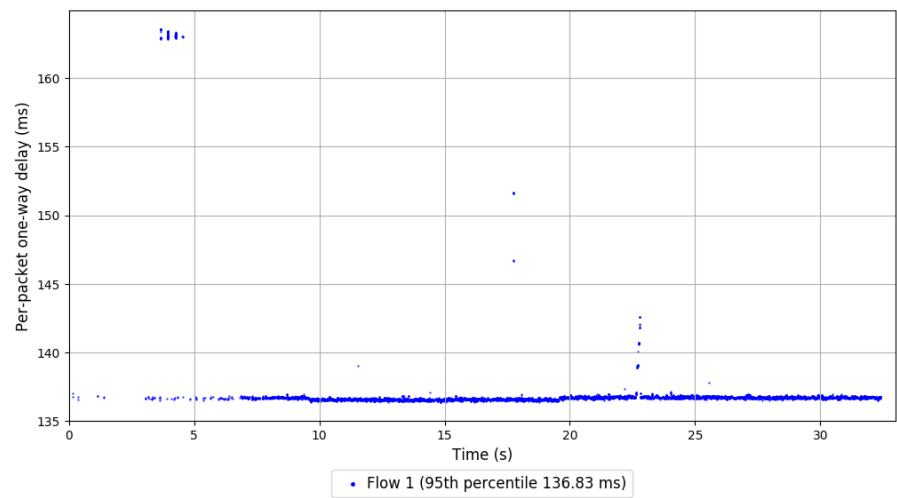
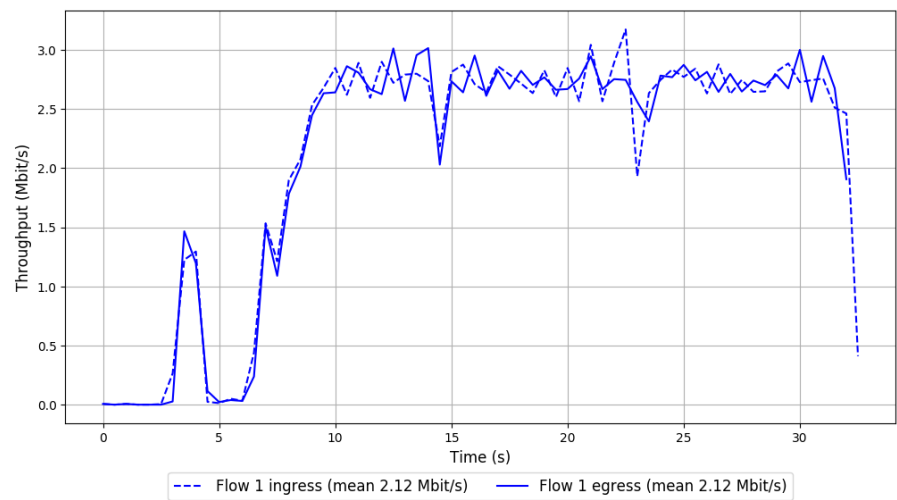
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.834 ms

Loss rate: 1.03%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-28 01:43:33

End at: 2018-02-28 01:44:03

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 163.778 ms

Loss rate: 1.07%

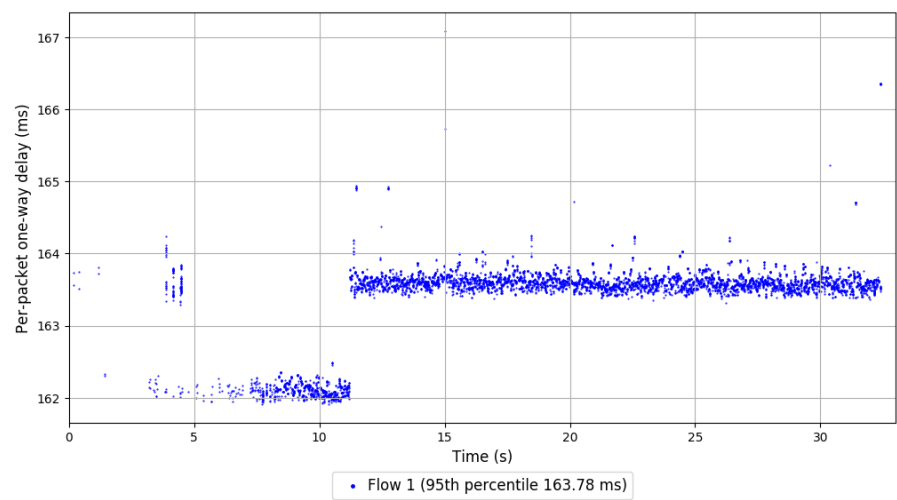
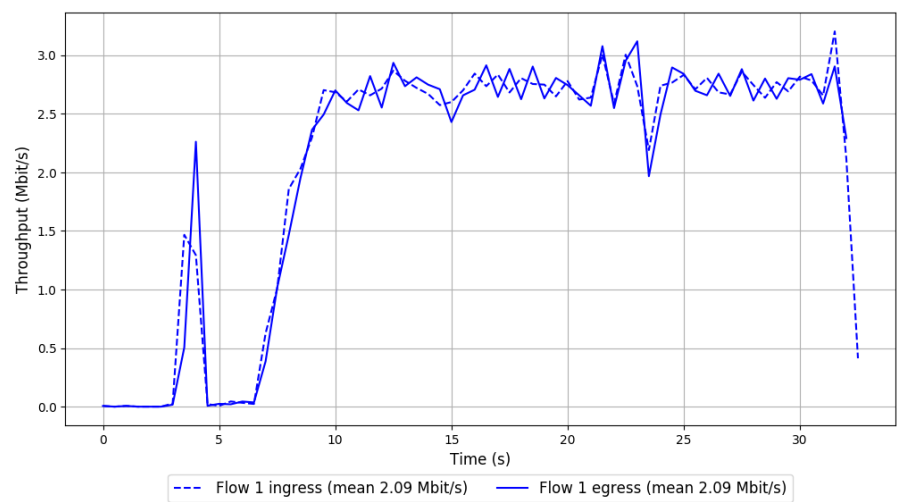
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 163.778 ms

Loss rate: 1.07%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-28 01:59:10

End at: 2018-02-28 01:59:40

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 163.111 ms

Loss rate: 1.11%

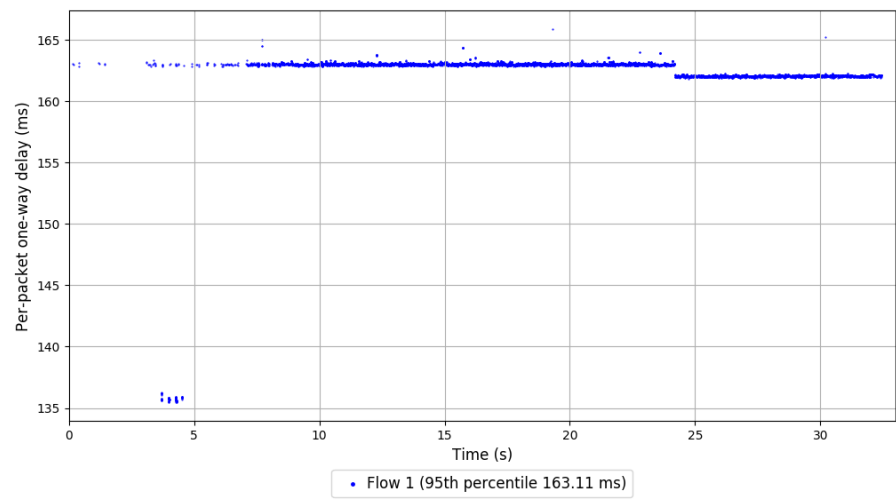
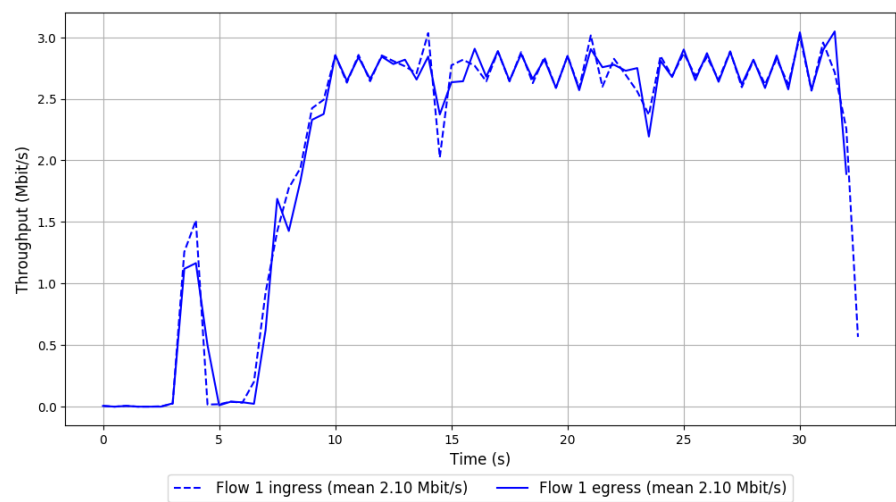
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 163.111 ms

Loss rate: 1.11%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-28 02:14:59

End at: 2018-02-28 02:15:29

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 162.462 ms

Loss rate: 0.98%

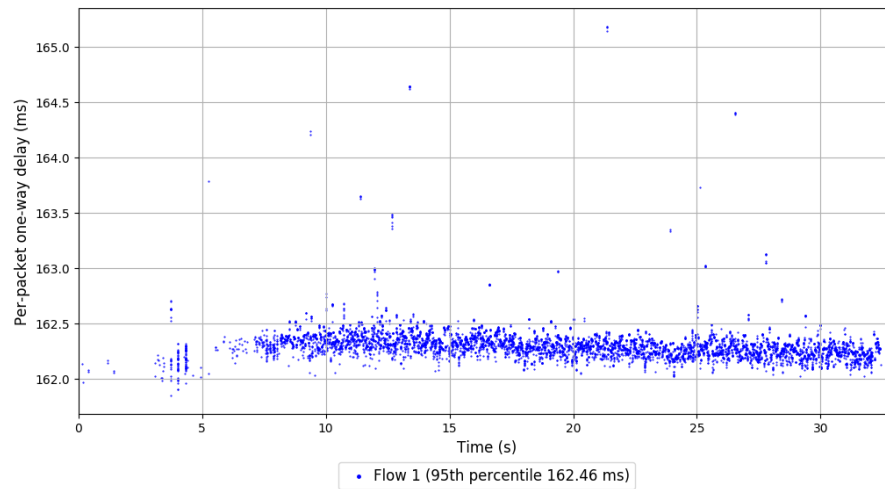
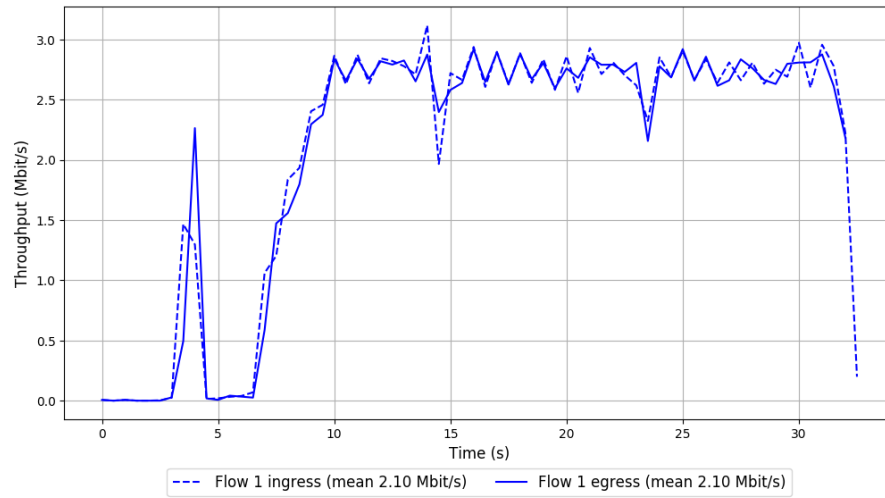
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 162.462 ms

Loss rate: 0.98%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-28 02:31:18

End at: 2018-02-28 02:31:48

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 1.04%

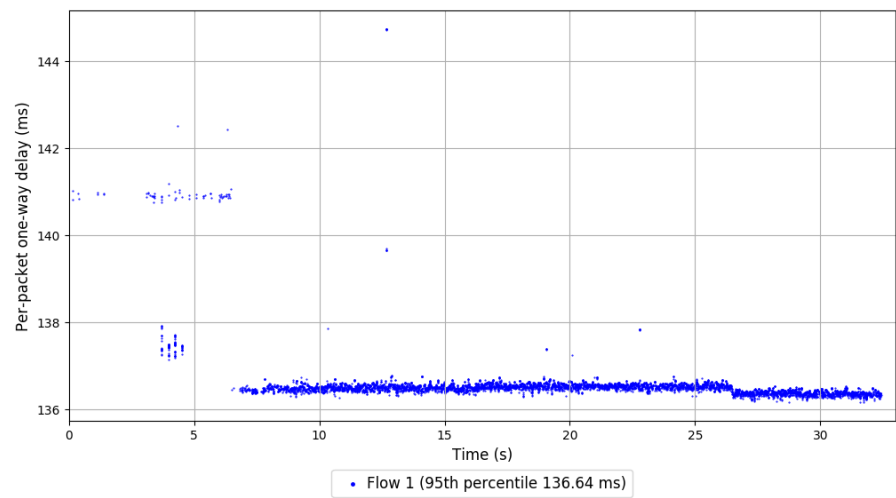
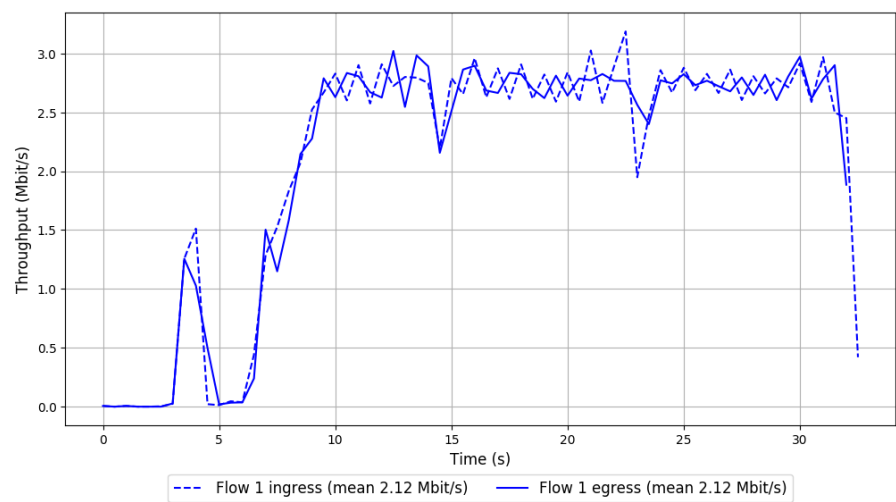
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 136.644 ms

Loss rate: 1.04%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-28 00:08:16

End at: 2018-02-28 00:08:46

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 141.309 ms

Loss rate: 0.88%

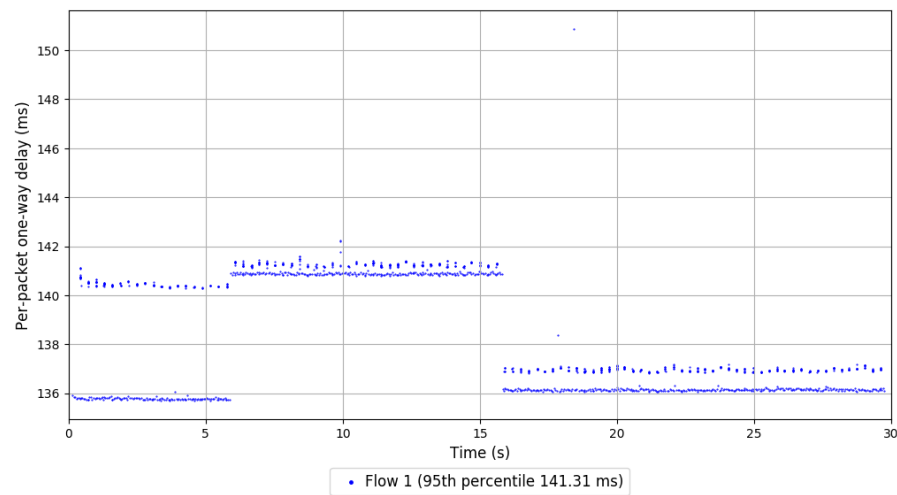
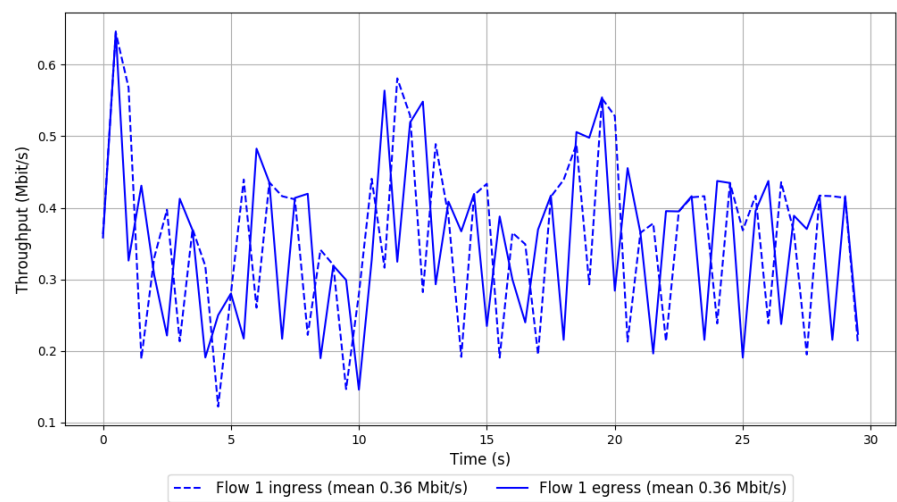
-- Flow 1:

Average throughput: 0.36 Mbit/s

95th percentile per-packet one-way delay: 141.309 ms

Loss rate: 0.88%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-28 00:24:39

End at: 2018-02-28 00:25:09

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.211 ms

Loss rate: 1.01%

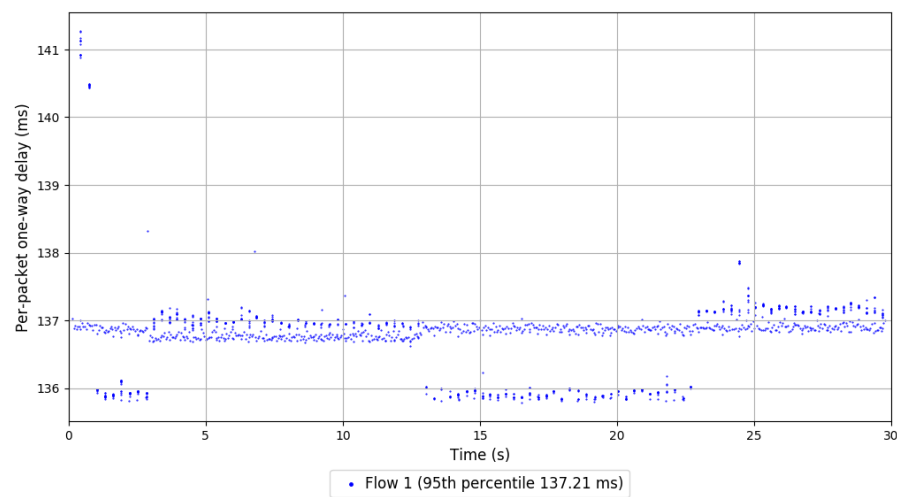
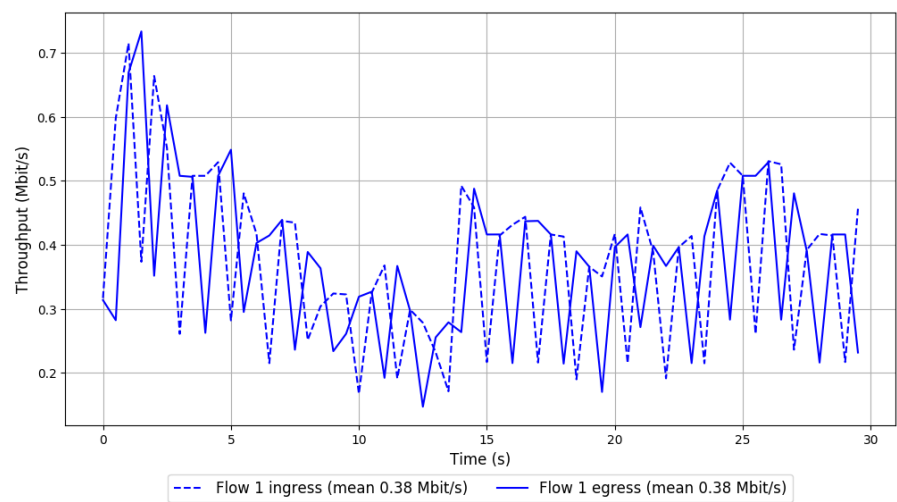
-- Flow 1:

Average throughput: 0.38 Mbit/s

95th percentile per-packet one-way delay: 137.211 ms

Loss rate: 1.01%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-28 00:40:56

End at: 2018-02-28 00:41:26

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 140.965 ms

Loss rate: 0.82%

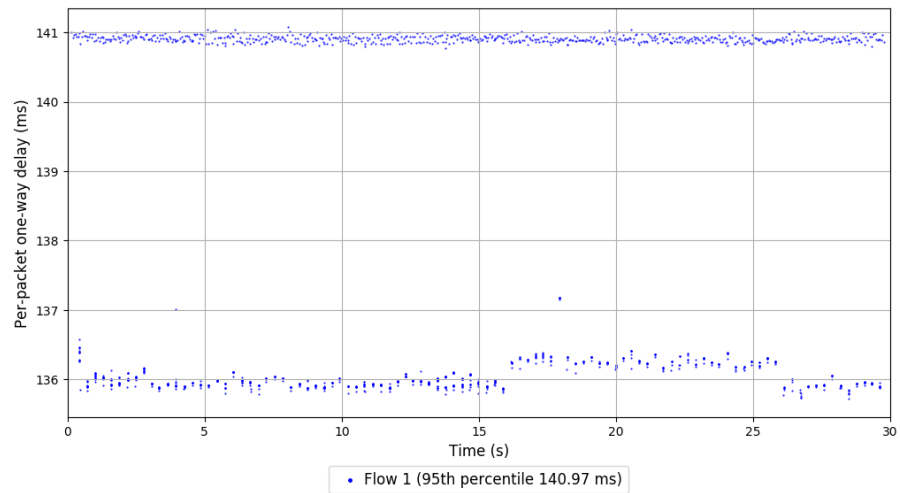
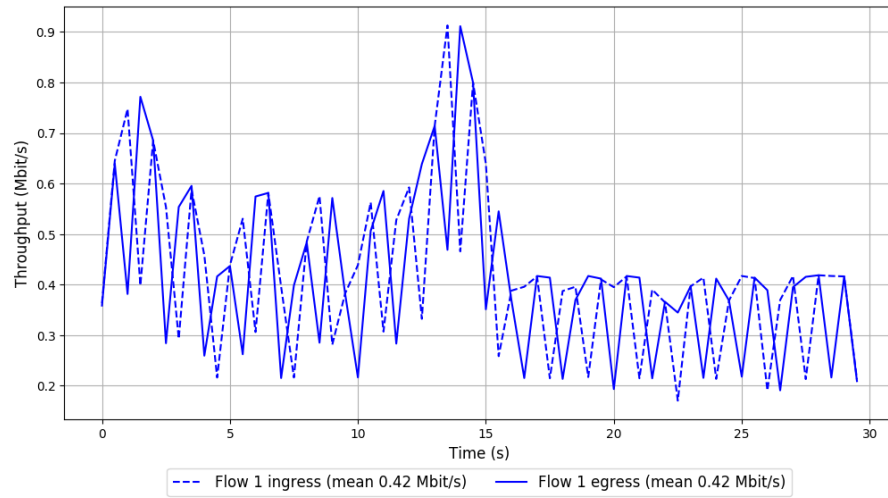
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 140.965 ms

Loss rate: 0.82%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-28 00:56:59

End at: 2018-02-28 00:57:29

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.303 ms

Loss rate: 0.21%

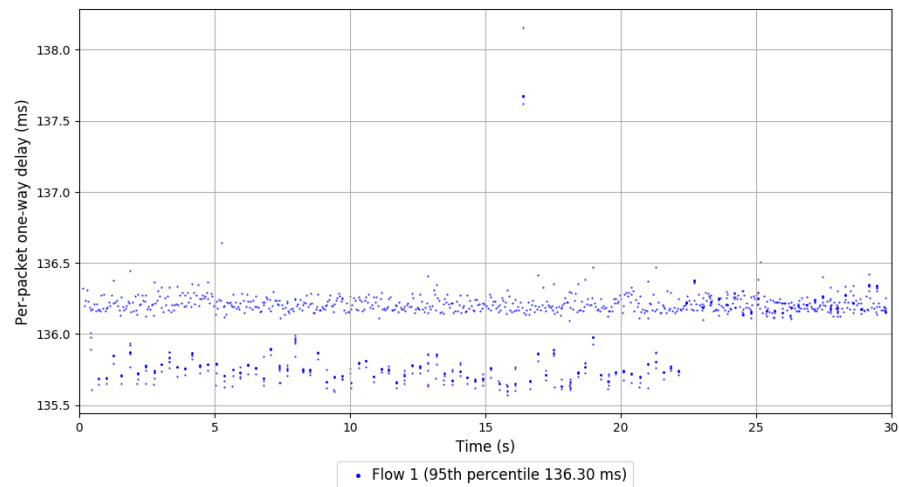
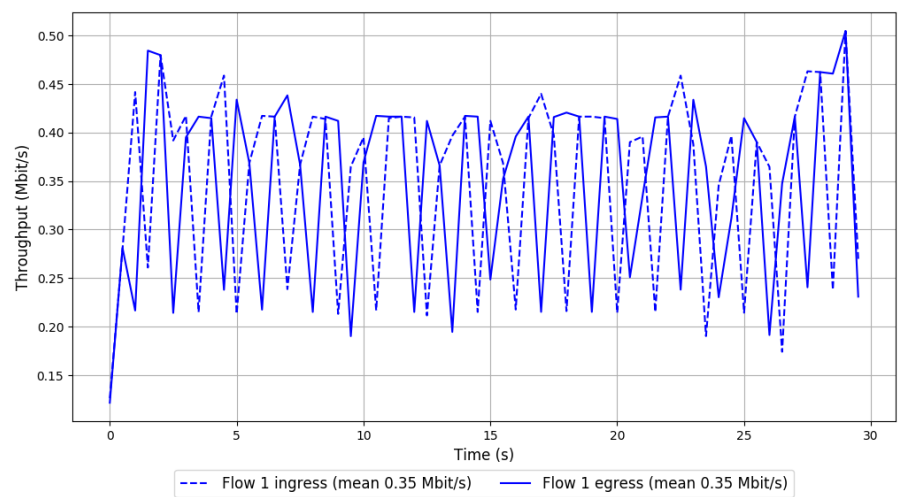
-- Flow 1:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 136.303 ms

Loss rate: 0.21%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-28 01:12:22

End at: 2018-02-28 01:12:52

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 163.123 ms

Loss rate: 1.98%

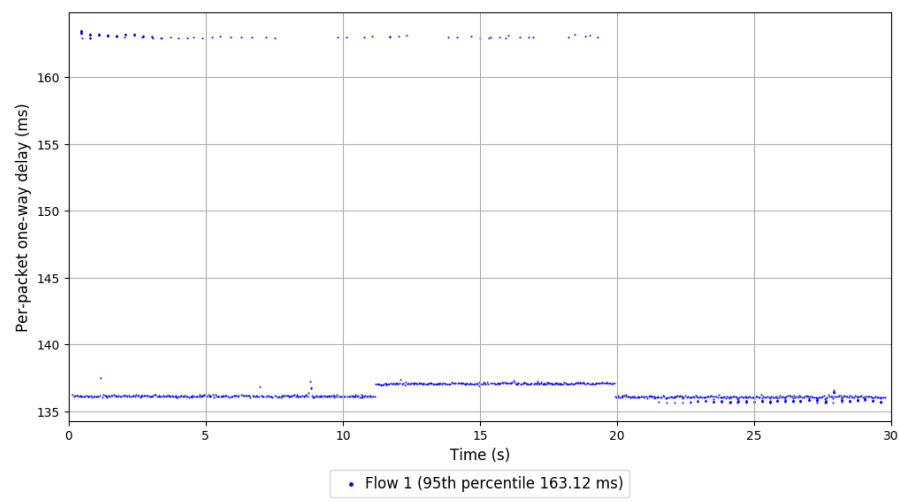
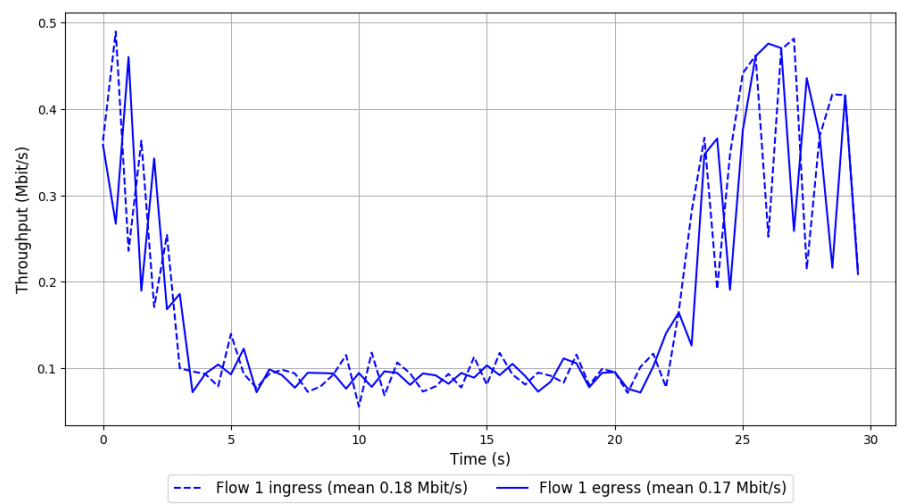
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 163.123 ms

Loss rate: 1.98%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-28 01:28:17

End at: 2018-02-28 01:28:47

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 163.304 ms

Loss rate: 0.83%

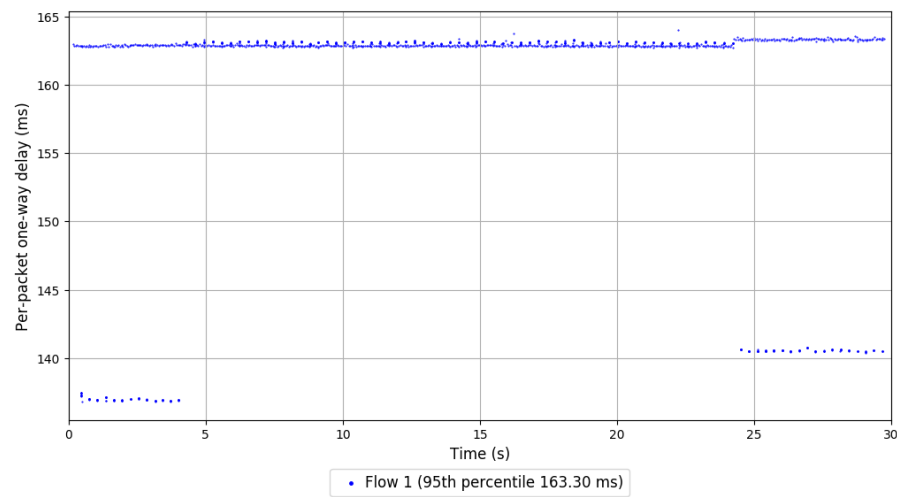
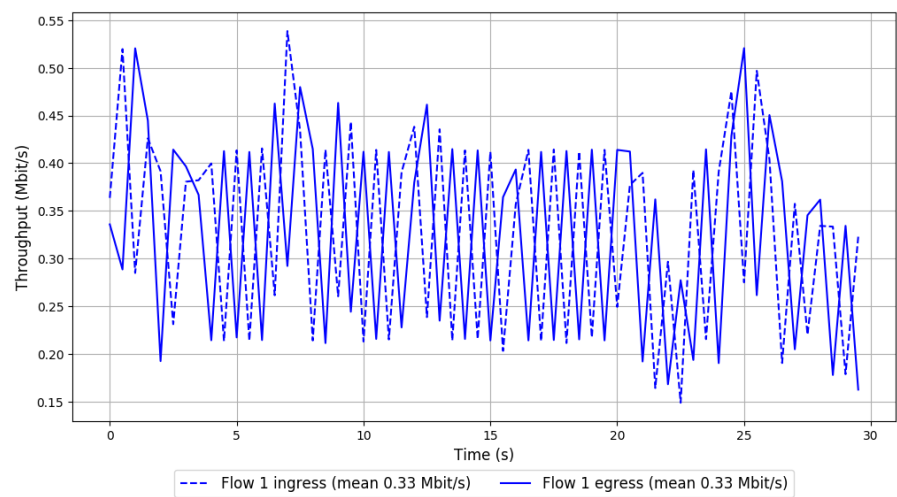
-- Flow 1:

Average throughput: 0.33 Mbit/s

95th percentile per-packet one-way delay: 163.304 ms

Loss rate: 0.83%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-28 01:44:16

End at: 2018-02-28 01:44:46

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 140.702 ms

Loss rate: 0.85%

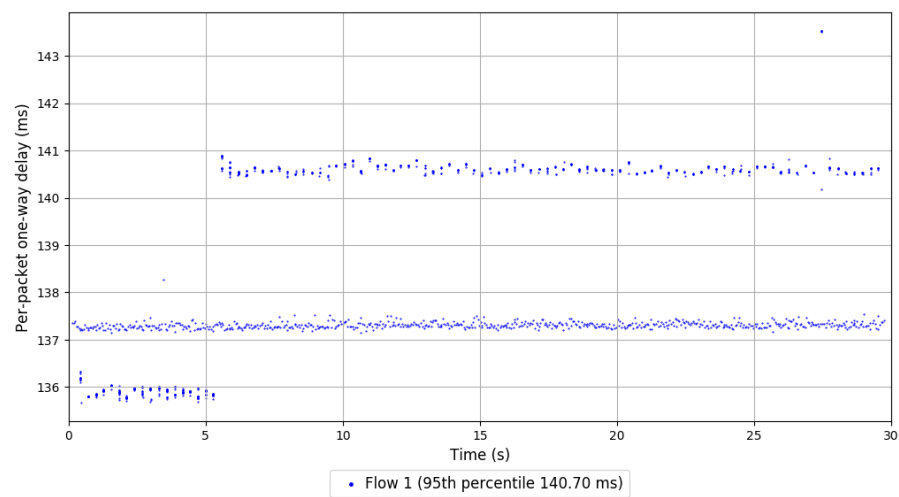
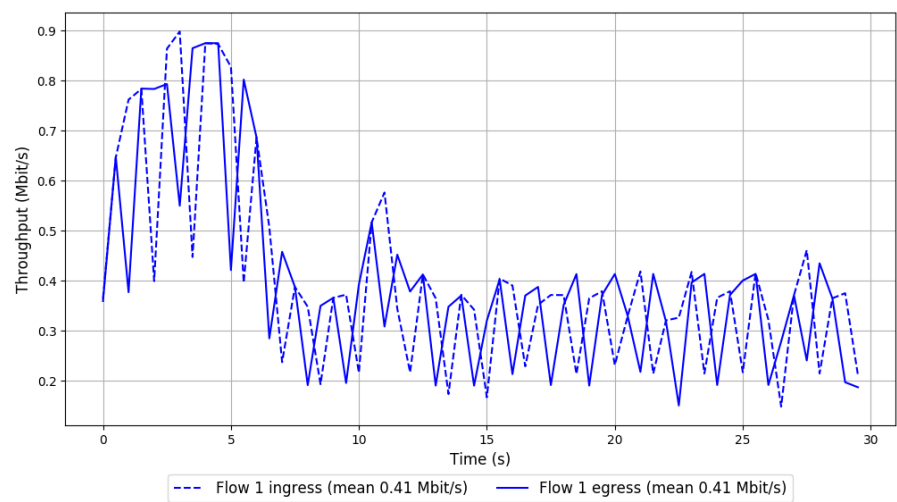
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 140.702 ms

Loss rate: 0.85%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-28 01:59:53

End at: 2018-02-28 02:00:23

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 163.162 ms

Loss rate: 1.09%

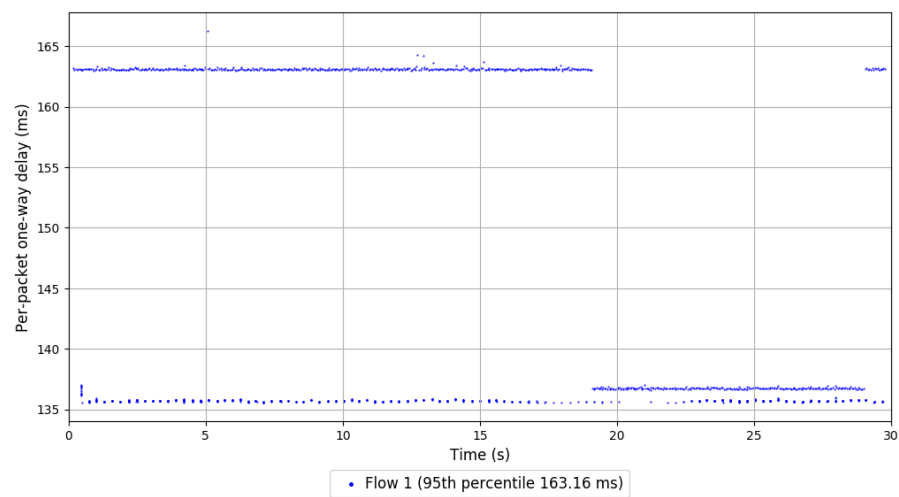
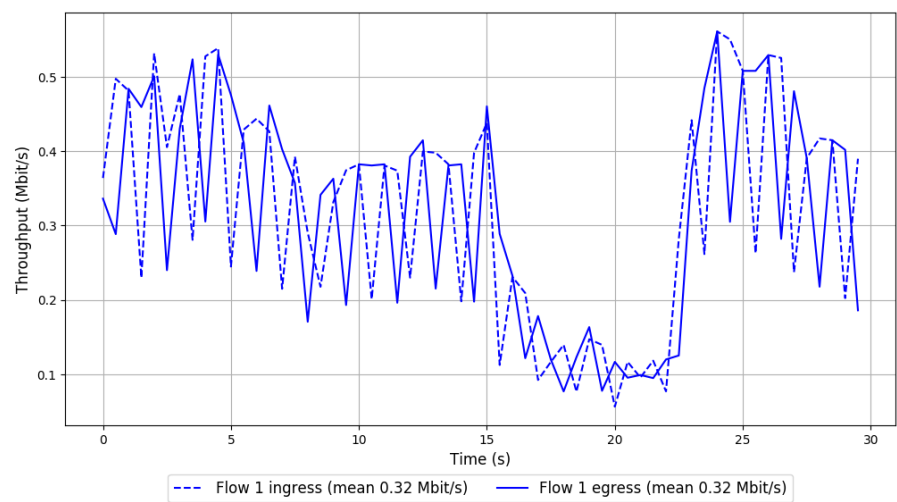
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 163.162 ms

Loss rate: 1.09%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-28 02:15:42

End at: 2018-02-28 02:16:12

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 162.111 ms

Loss rate: 0.37%

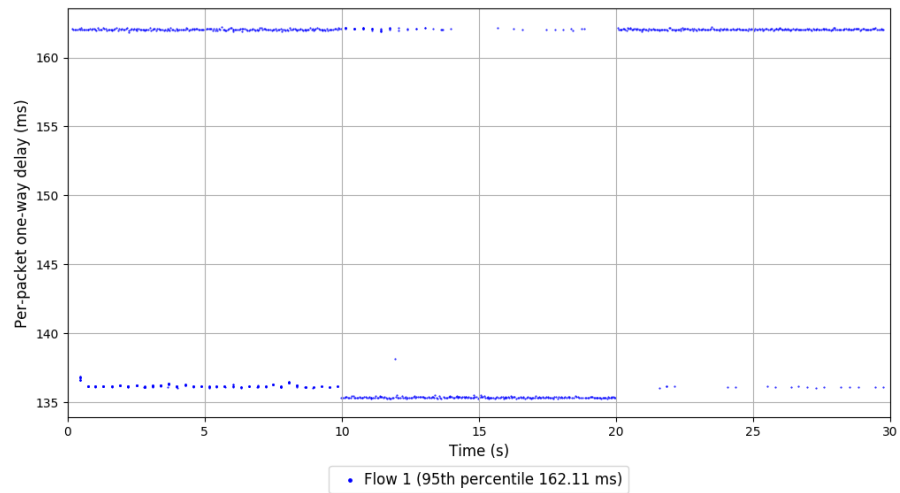
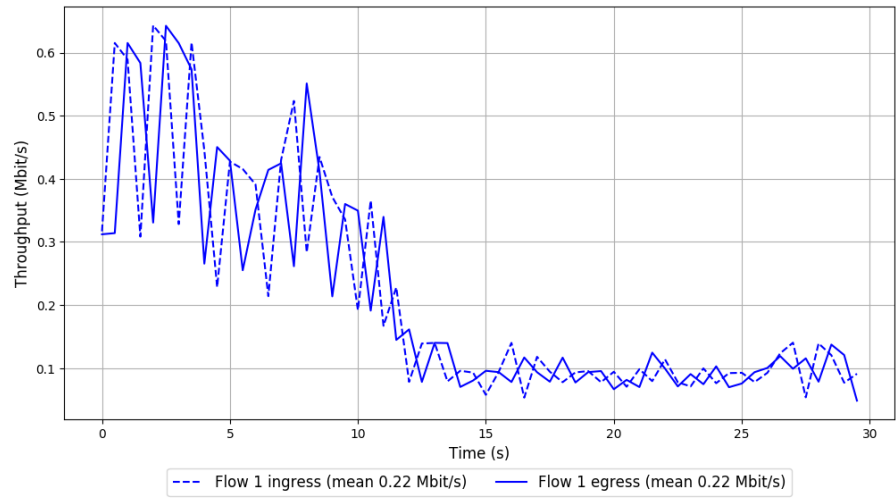
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 162.111 ms

Loss rate: 0.37%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-28 02:32:00

End at: 2018-02-28 02:32:30

Below is generated by plot.py at 2018-02-28 05:42:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.449 ms

Loss rate: 0.81%

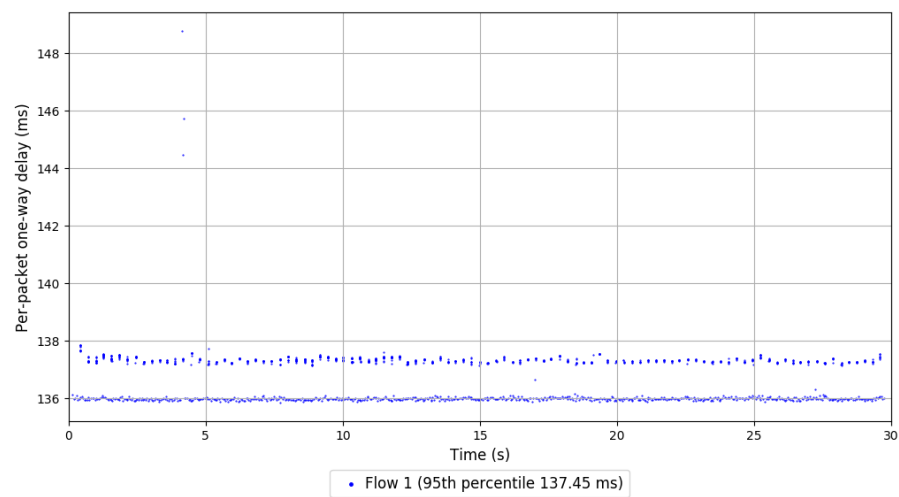
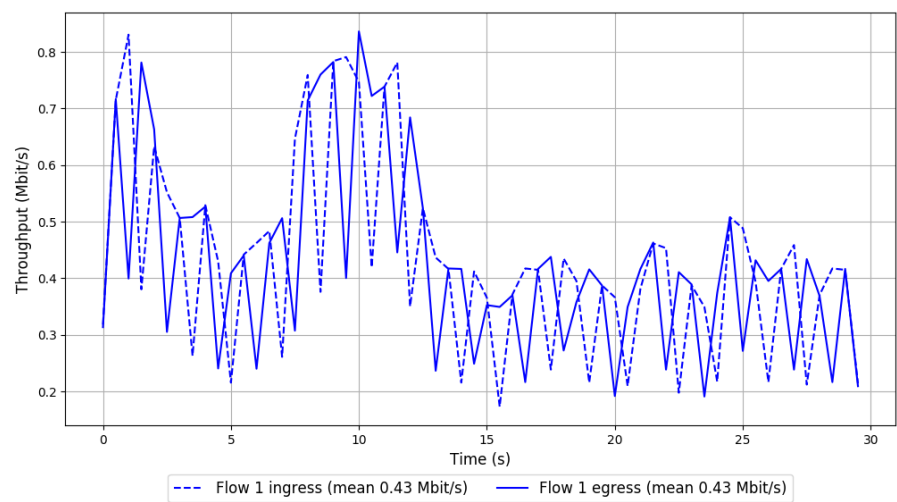
-- Flow 1:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 137.449 ms

Loss rate: 0.81%

Run 10: Report of Sprout — Data Link

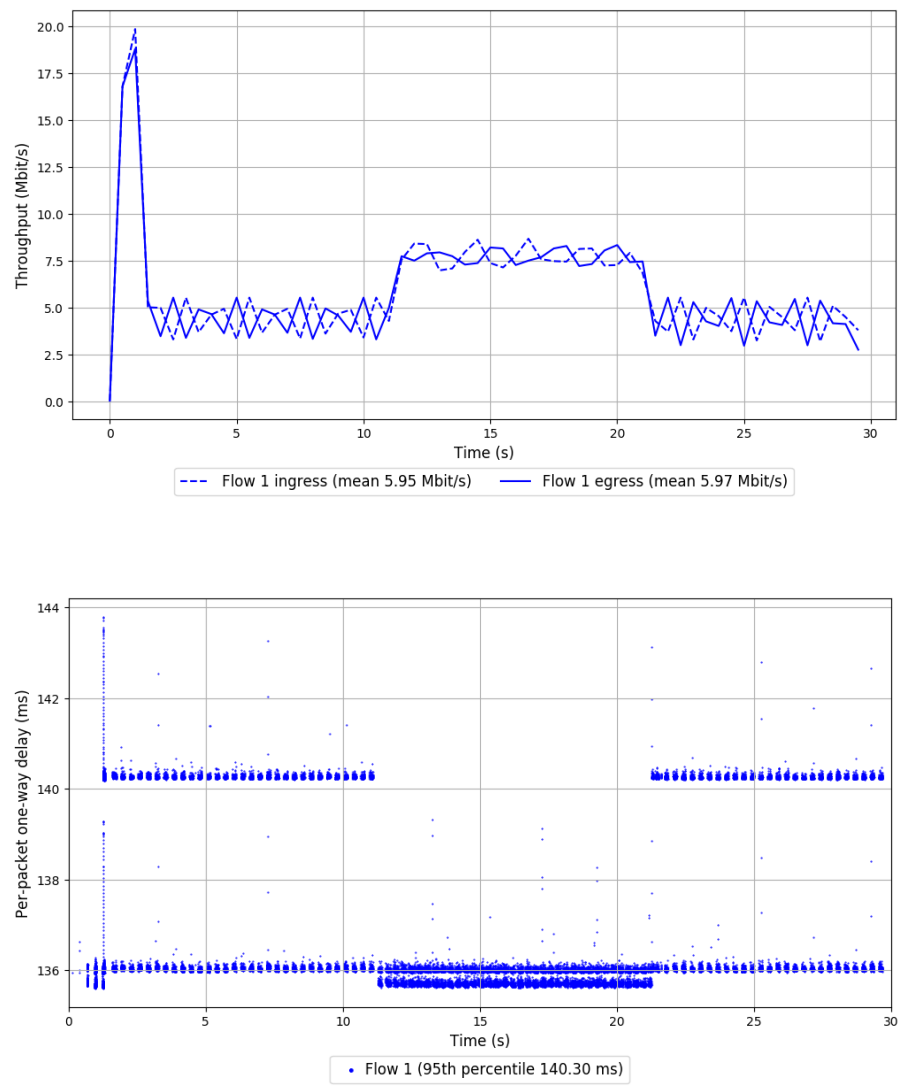


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-28 00:00:00
End at: 2018-02-28 00:00:30

# Below is generated by plot.py at 2018-02-28 05:42:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 140.298 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 5.97 Mbit/s
95th percentile per-packet one-way delay: 140.298 ms
Loss rate: 0.78%
```


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

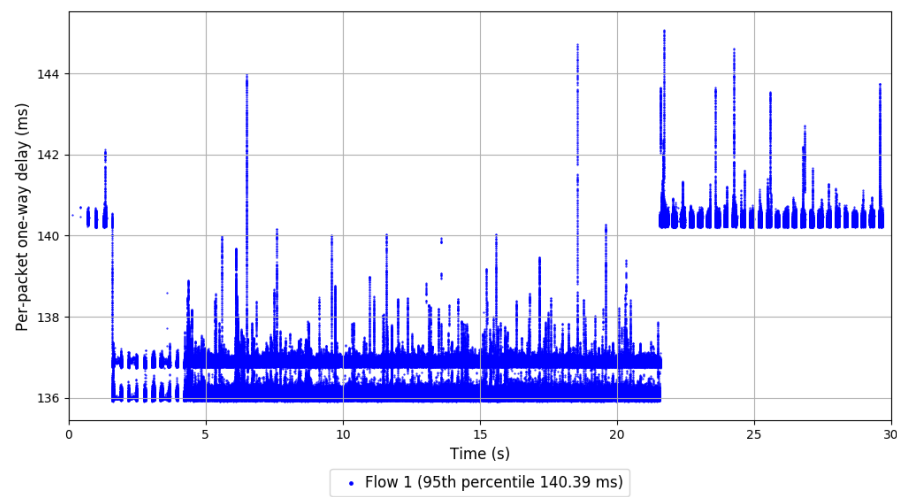
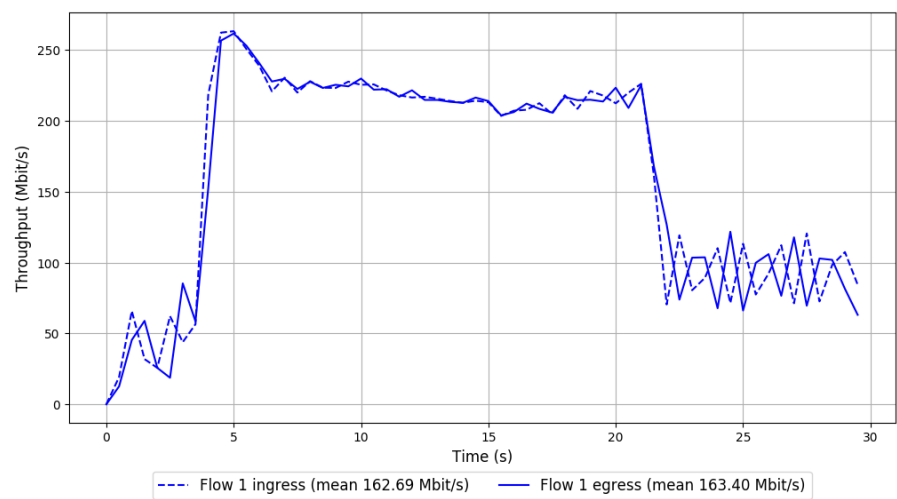


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-28 00:16:00
End at: 2018-02-28 00:16:30

# Below is generated by plot.py at 2018-02-28 05:47:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 163.40 Mbit/s
95th percentile per-packet one-way delay: 140.392 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 163.40 Mbit/s
95th percentile per-packet one-way delay: 140.392 ms
Loss rate: 0.66%
```

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

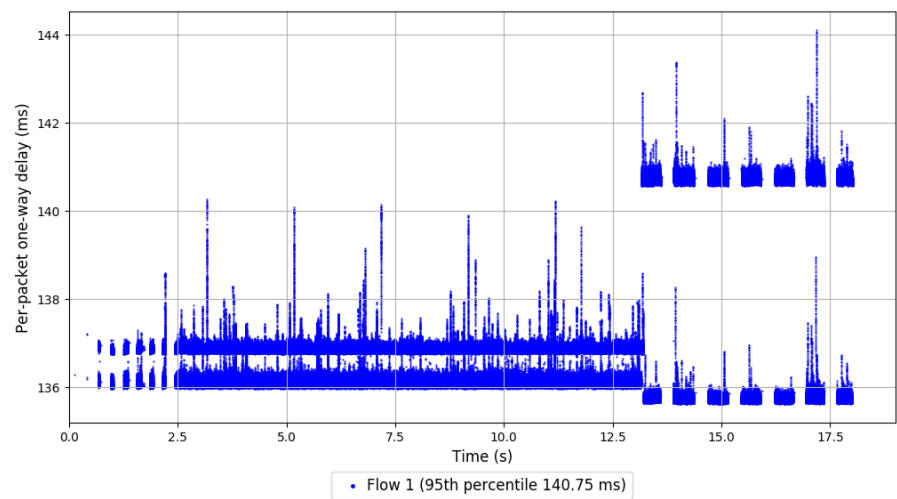
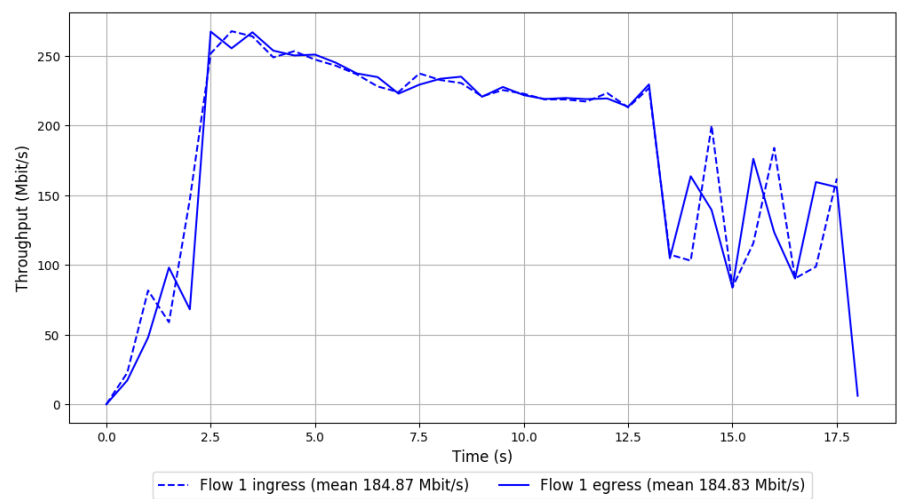


Run 3: Statistics of TaoVA-100x

Start at: 2018-02-28 00:32:19

End at: 2018-02-28 00:32:49

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

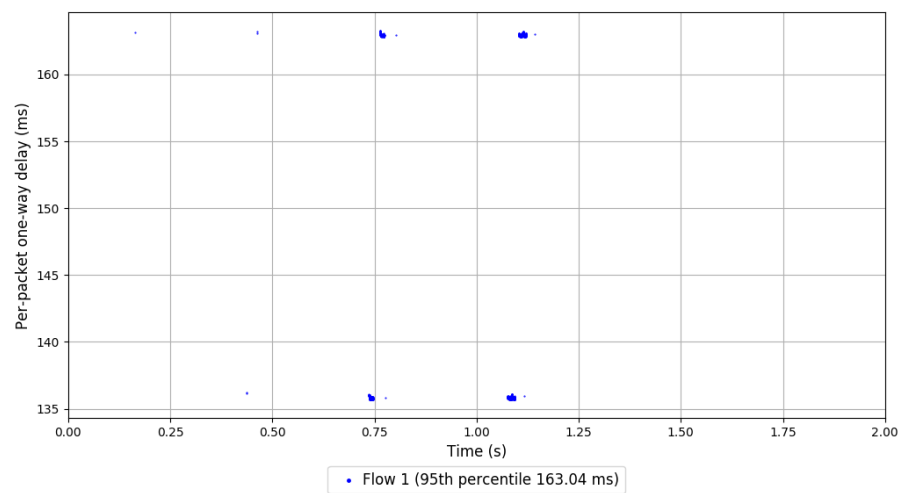
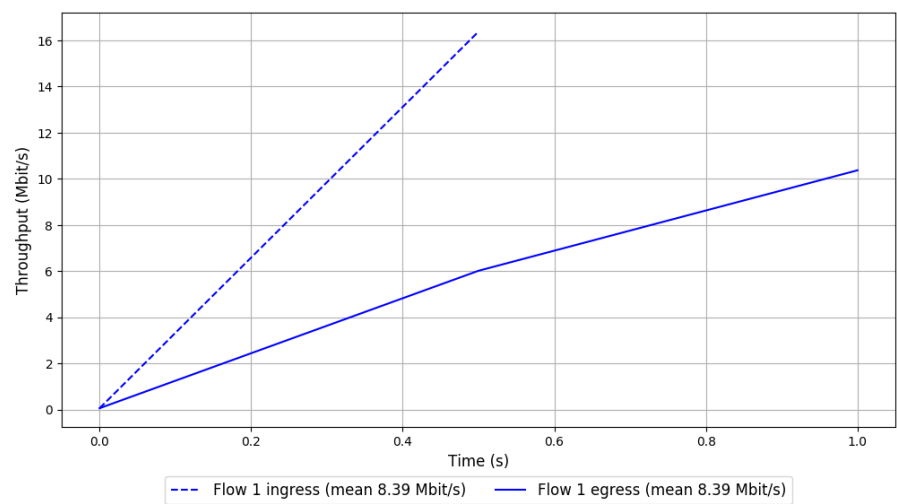


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-28 00:48:38

End at: 2018-02-28 00:49:08

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-28 01:04:23

End at: 2018-02-28 01:04:53

Below is generated by plot.py at 2018-02-28 05:47:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 161.191 ms

Loss rate: 0.68%

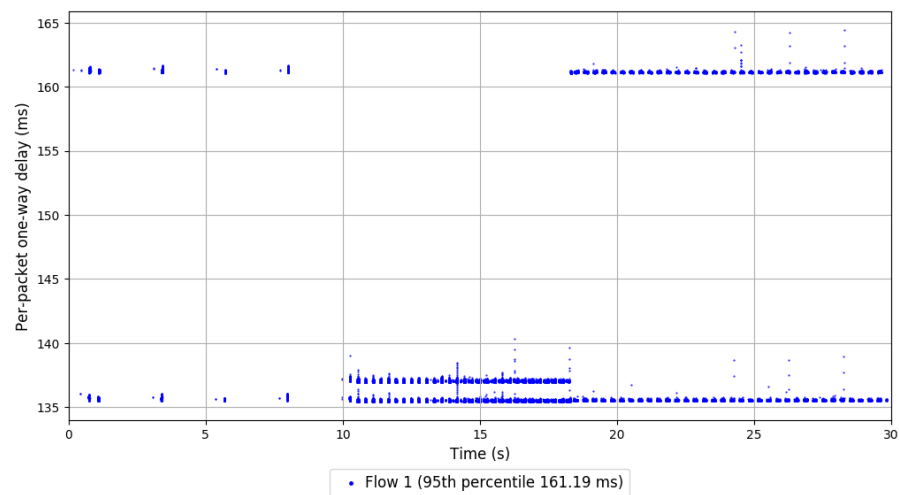
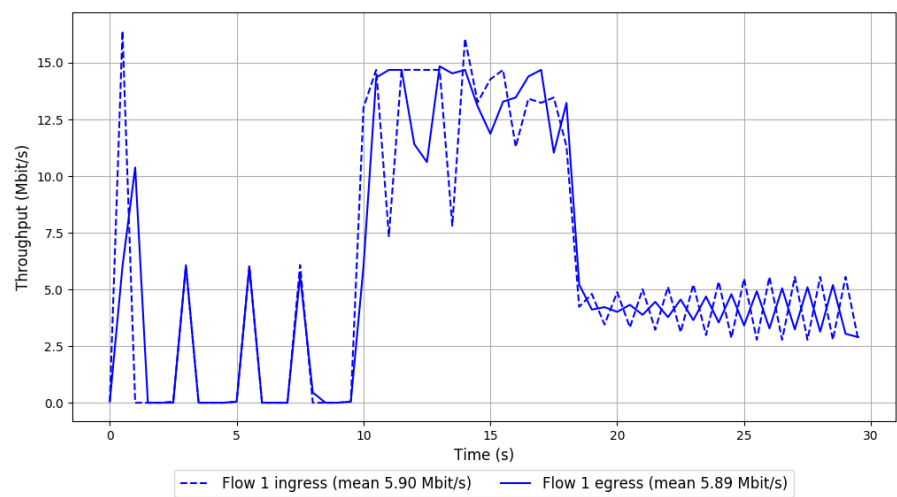
-- Flow 1:

Average throughput: 5.89 Mbit/s

95th percentile per-packet one-way delay: 161.191 ms

Loss rate: 0.68%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-28 01:20:01

End at: 2018-02-28 01:20:32

Below is generated by plot.py at 2018-02-28 05:47:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.12 Mbit/s

95th percentile per-packet one-way delay: 162.892 ms

Loss rate: 1.46%

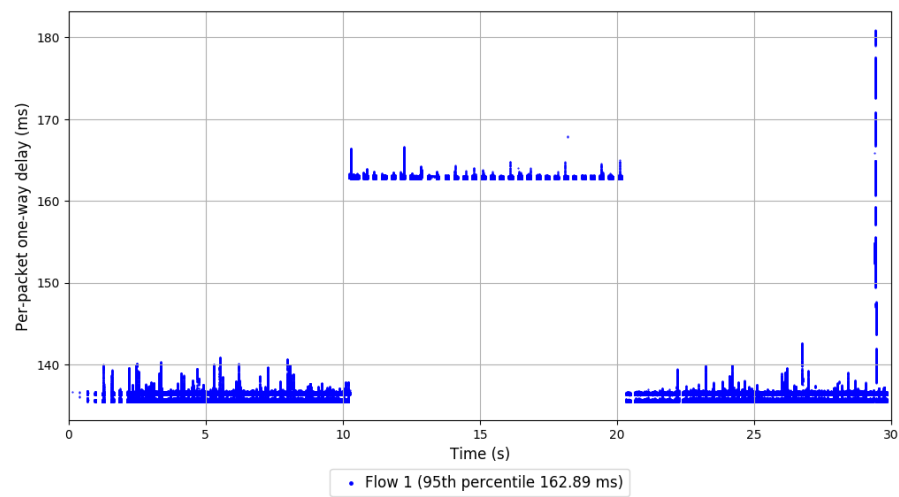
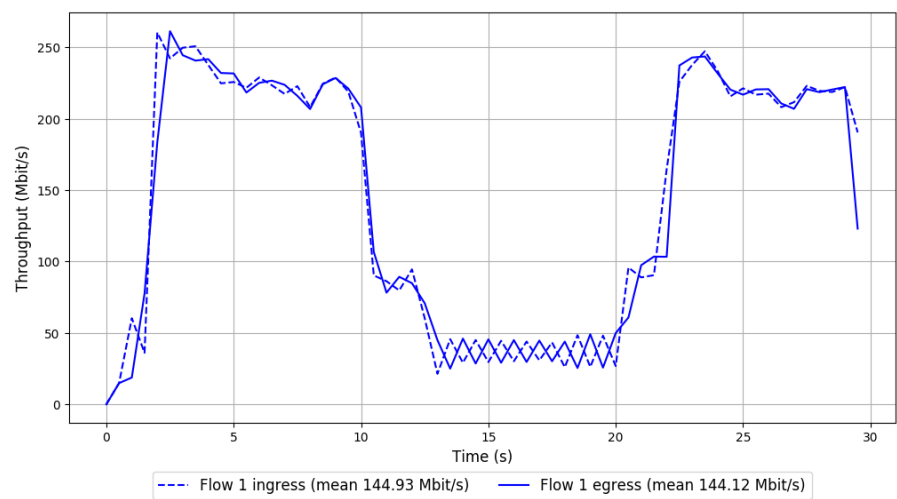
-- Flow 1:

Average throughput: 144.12 Mbit/s

95th percentile per-packet one-way delay: 162.892 ms

Loss rate: 1.46%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-28 01:35:49

End at: 2018-02-28 01:36:19

Below is generated by plot.py at 2018-02-28 05:47:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.08 Mbit/s

95th percentile per-packet one-way delay: 140.450 ms

Loss rate: 0.30%

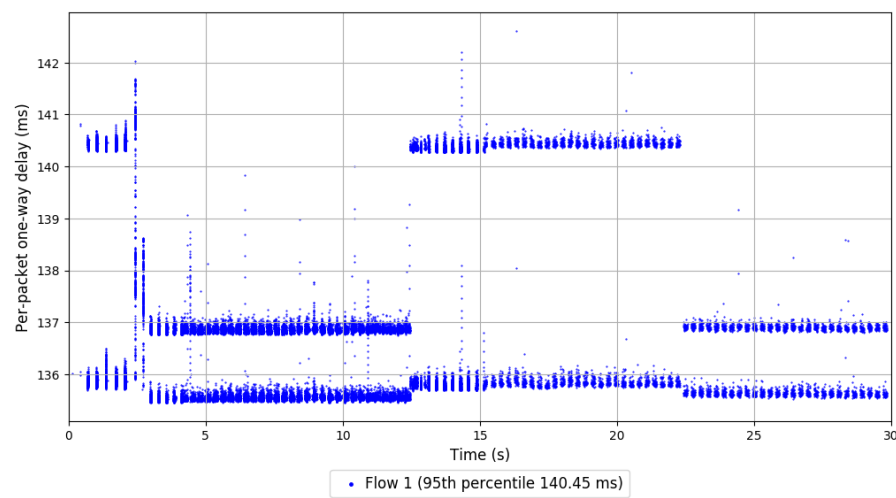
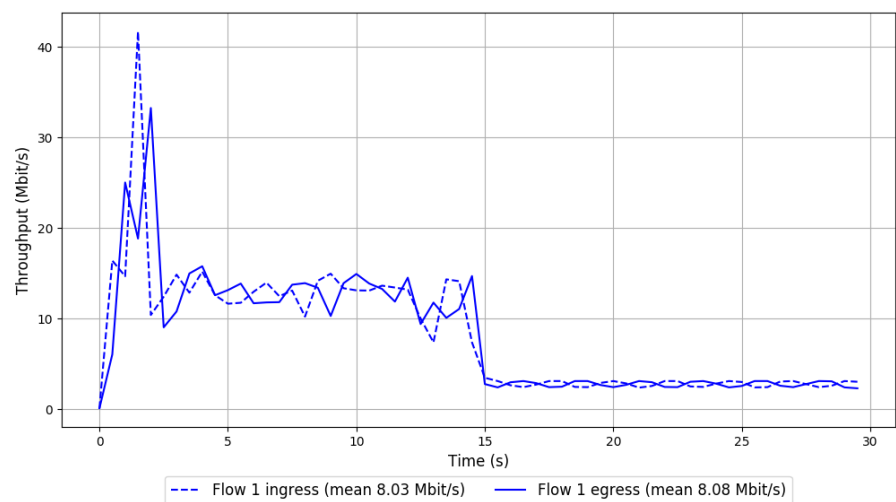
-- Flow 1:

Average throughput: 8.08 Mbit/s

95th percentile per-packet one-way delay: 140.450 ms

Loss rate: 0.30%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-28 01:51:43

End at: 2018-02-28 01:52:13

Below is generated by plot.py at 2018-02-28 05:47:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 140.593 ms

Loss rate: 0.00%

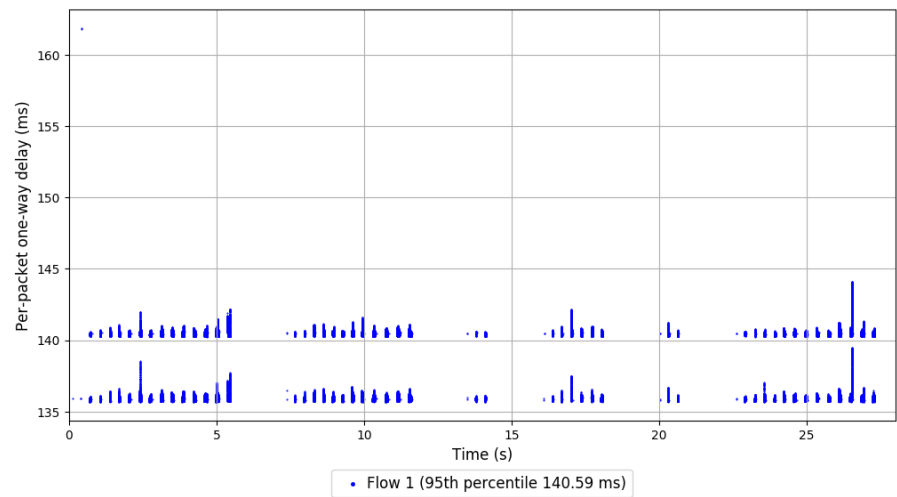
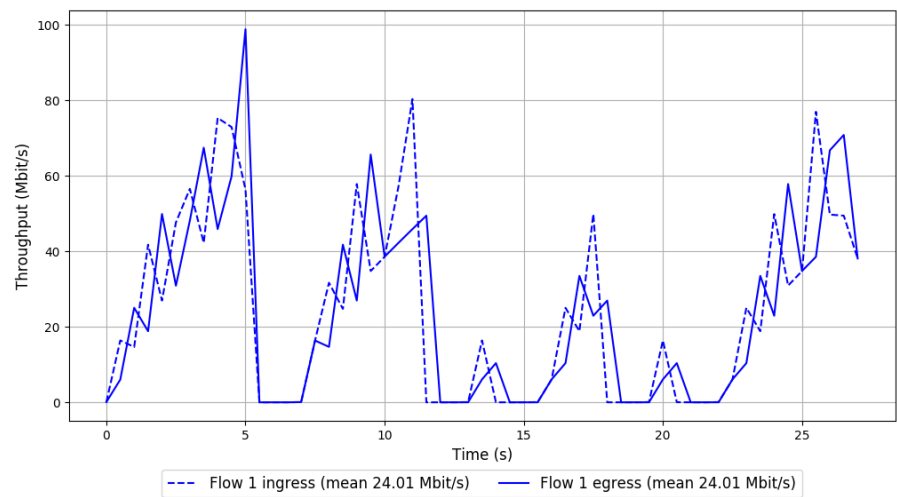
-- Flow 1:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 140.593 ms

Loss rate: 0.00%

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

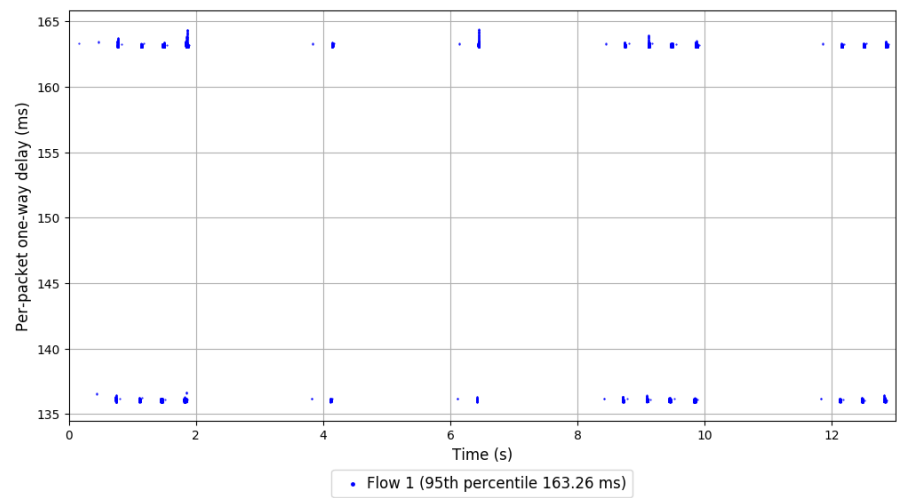
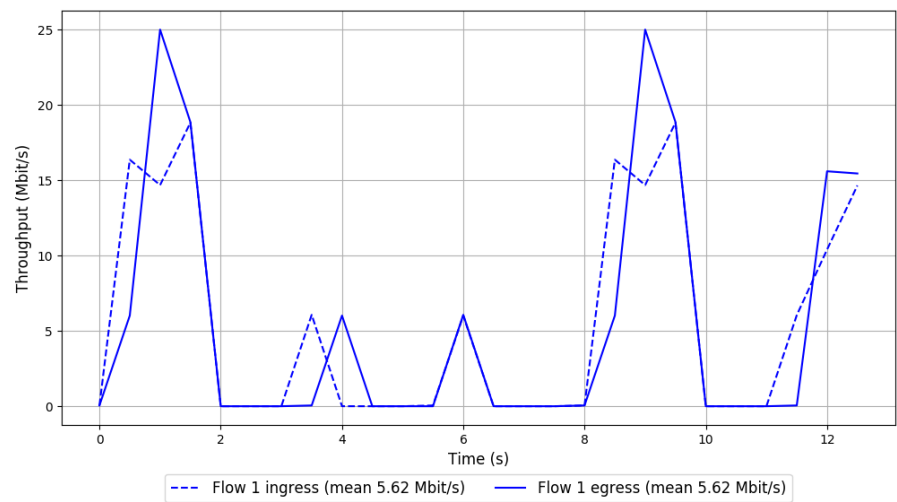


Run 9: Statistics of TaoVA-100x

Start at: 2018-02-28 02:07:17

End at: 2018-02-28 02:07:47

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

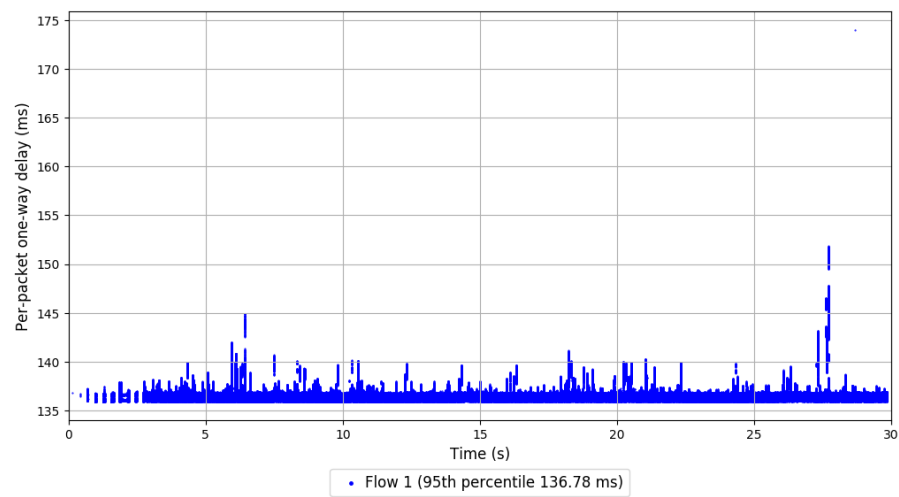
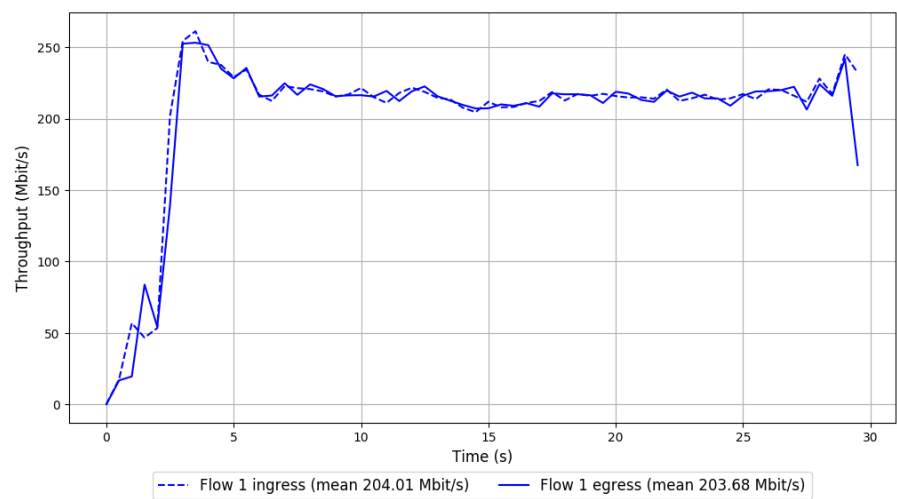


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-28 02:23:25
End at: 2018-02-28 02:23:55

# Below is generated by plot.py at 2018-02-28 05:48:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 203.68 Mbit/s
95th percentile per-packet one-way delay: 136.783 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 203.68 Mbit/s
95th percentile per-packet one-way delay: 136.783 ms
Loss rate: 1.08%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-28 00:00:44

End at: 2018-02-28 00:01:14

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 149.148 ms

Loss rate: 1.00%

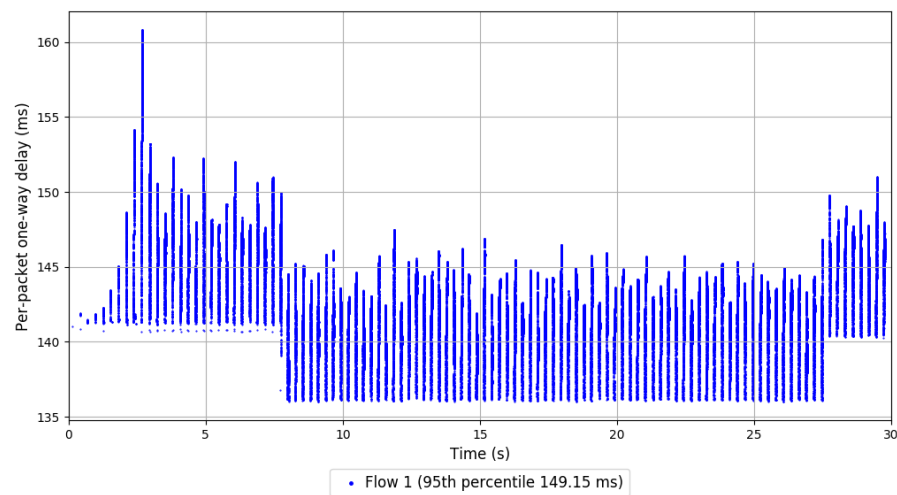
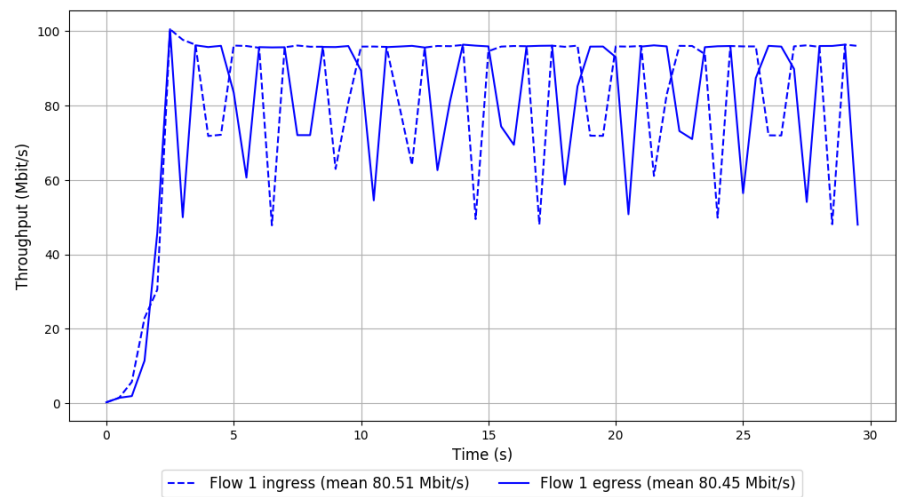
-- Flow 1:

Average throughput: 80.45 Mbit/s

95th percentile per-packet one-way delay: 149.148 ms

Loss rate: 1.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-28 00:16:59

End at: 2018-02-28 00:17:29

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 141.838 ms

Loss rate: 0.97%

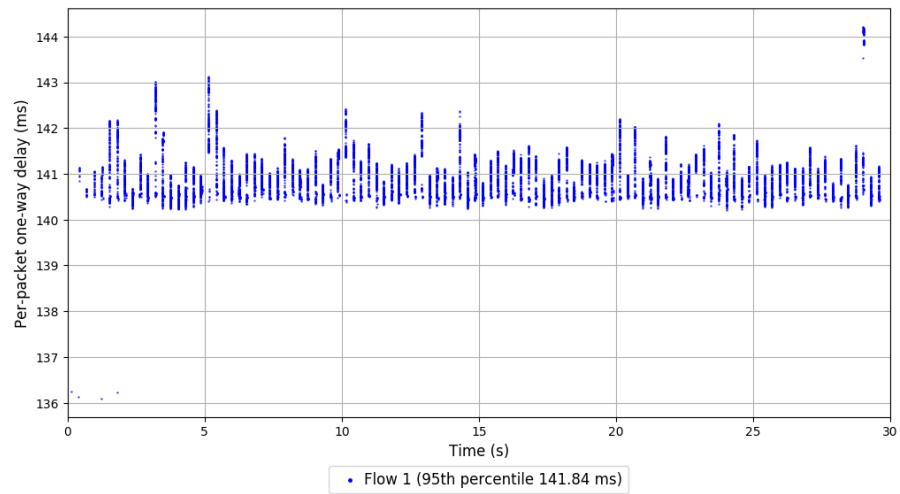
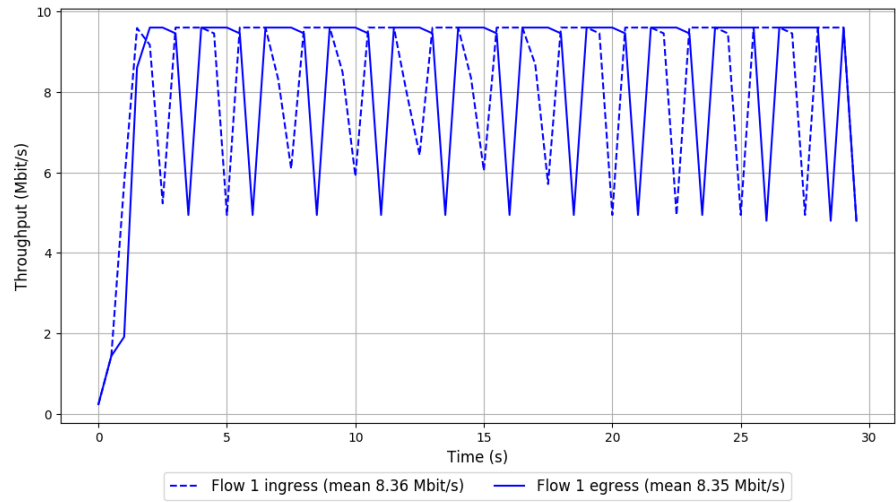
-- Flow 1:

Average throughput: 8.35 Mbit/s

95th percentile per-packet one-way delay: 141.838 ms

Loss rate: 0.97%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-28 00:33:12

End at: 2018-02-28 00:33:42

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 138.487 ms

Loss rate: 1.02%

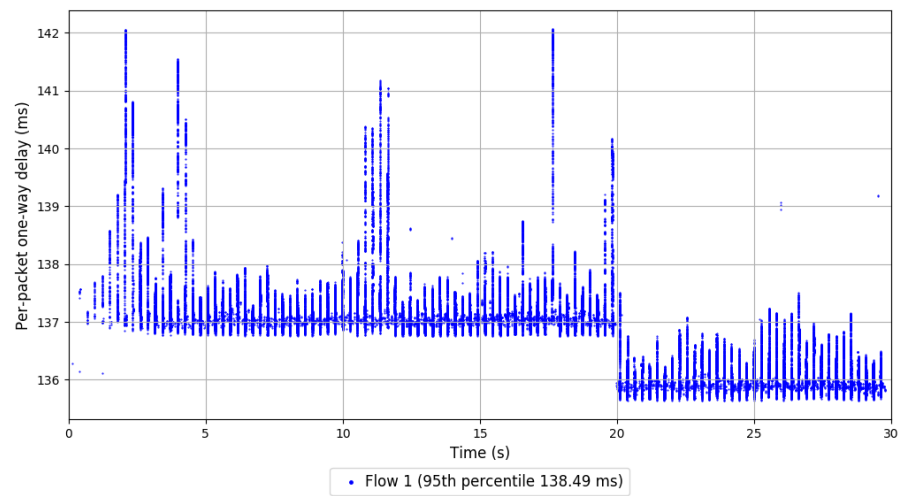
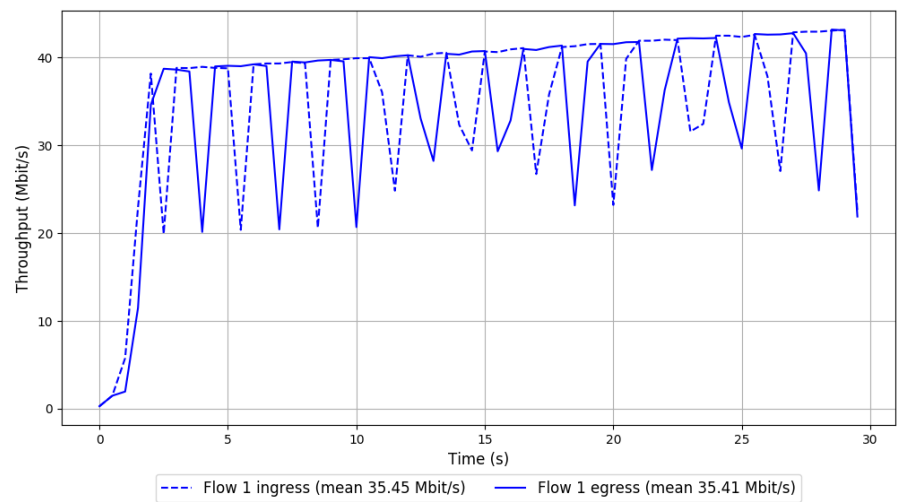
-- Flow 1:

Average throughput: 35.41 Mbit/s

95th percentile per-packet one-way delay: 138.487 ms

Loss rate: 1.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-28 00:49:20

End at: 2018-02-28 00:49:50

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 143.743 ms

Loss rate: 0.96%

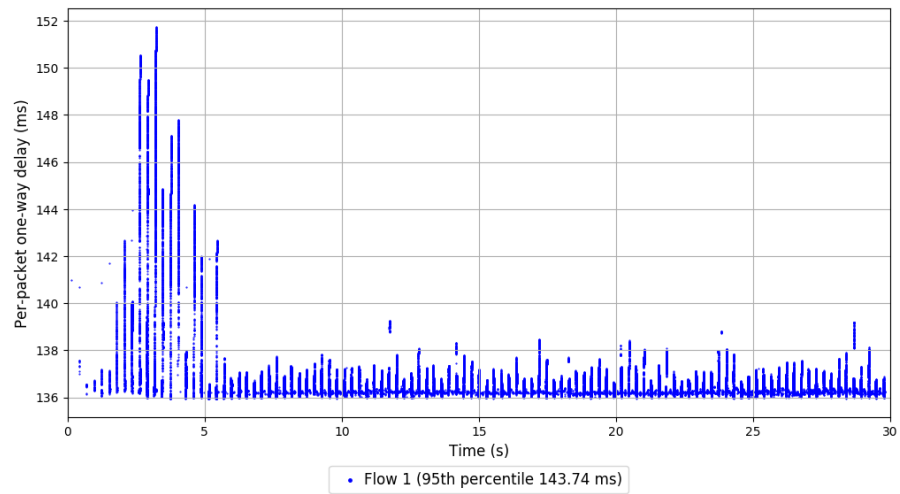
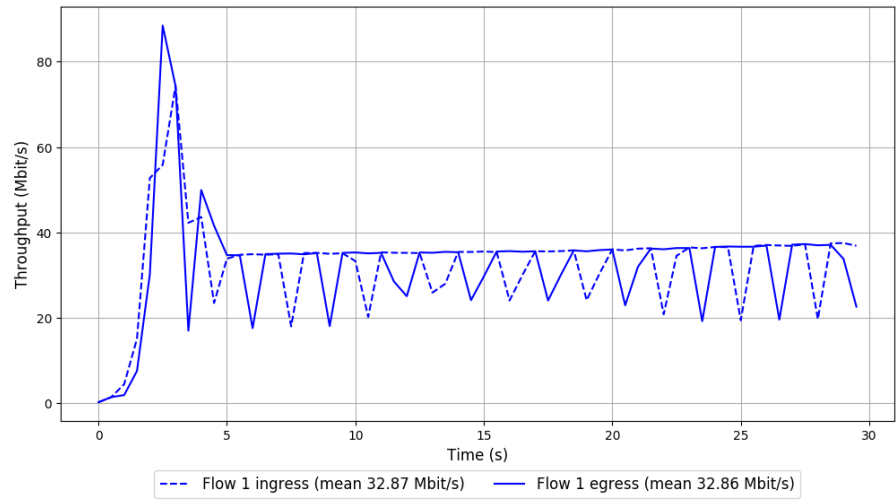
-- Flow 1:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 143.743 ms

Loss rate: 0.96%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-28 01:05:07

End at: 2018-02-28 01:05:38

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 172.577 ms

Loss rate: 0.83%

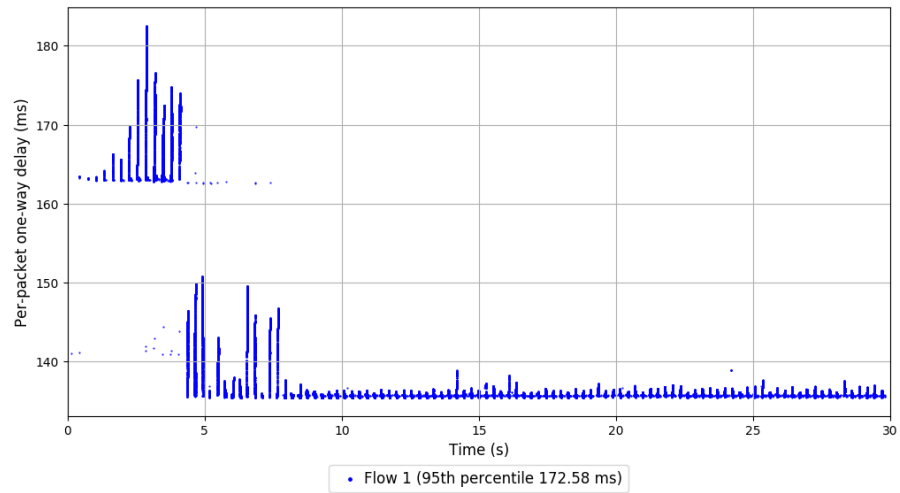
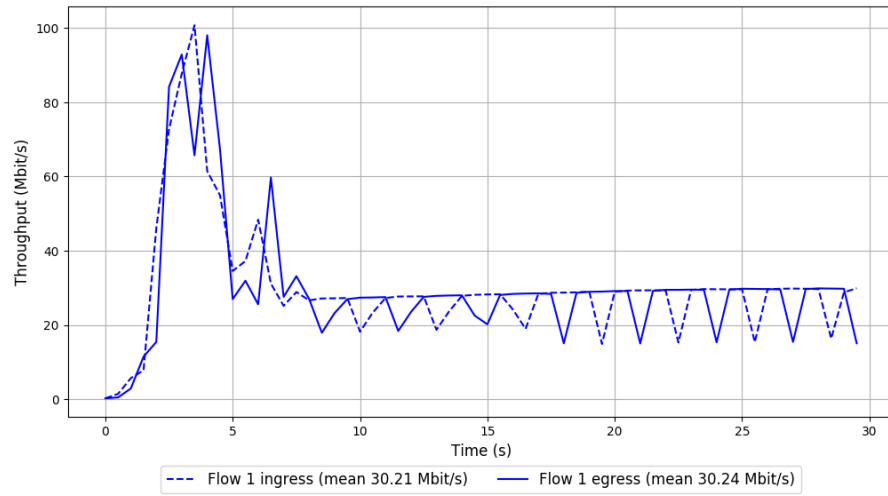
-- Flow 1:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 172.577 ms

Loss rate: 0.83%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-28 01:20:59

End at: 2018-02-28 01:21:29

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 164.098 ms

Loss rate: 0.89%

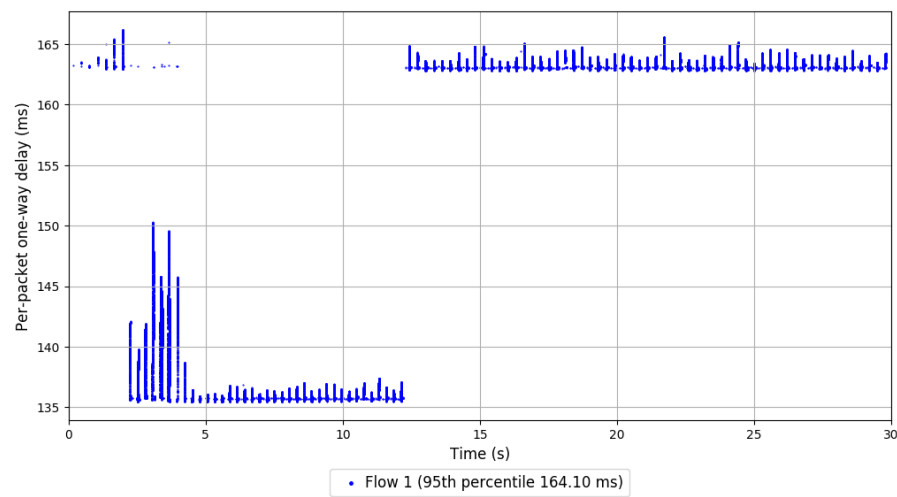
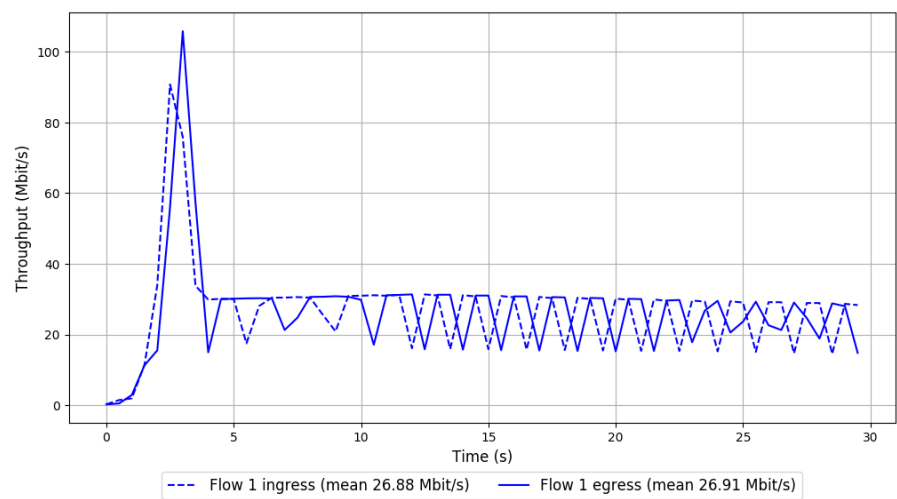
-- Flow 1:

Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 164.098 ms

Loss rate: 0.89%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-28 01:36:33

End at: 2018-02-28 01:37:03

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 141.576 ms

Loss rate: 0.97%

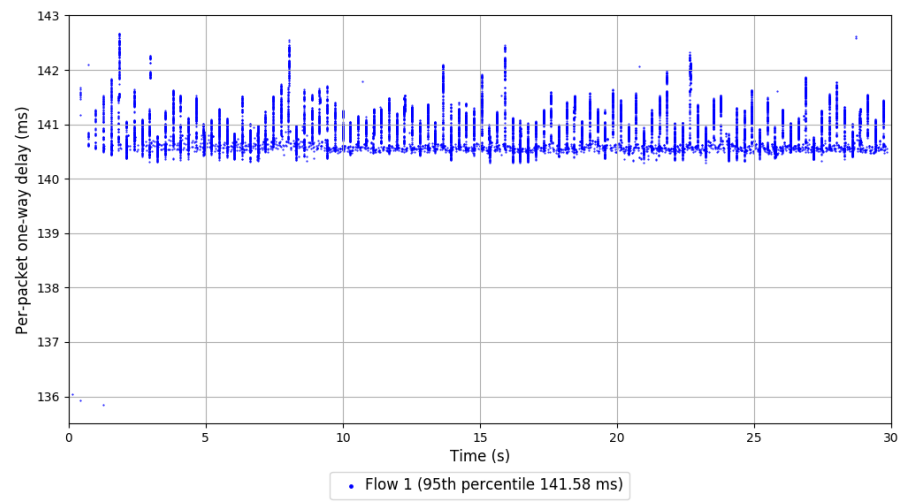
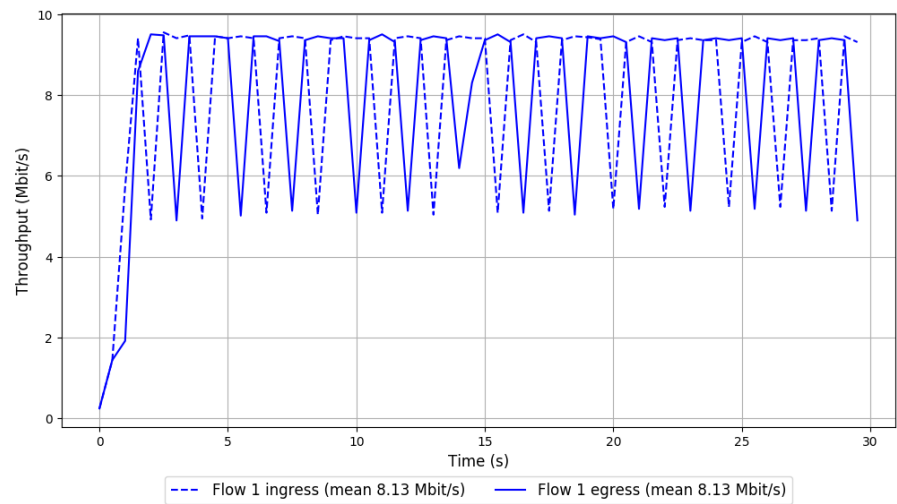
-- Flow 1:

Average throughput: 8.13 Mbit/s

95th percentile per-packet one-way delay: 141.576 ms

Loss rate: 0.97%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-28 01:52:28

End at: 2018-02-28 01:52:58

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 141.625 ms

Loss rate: 0.95%

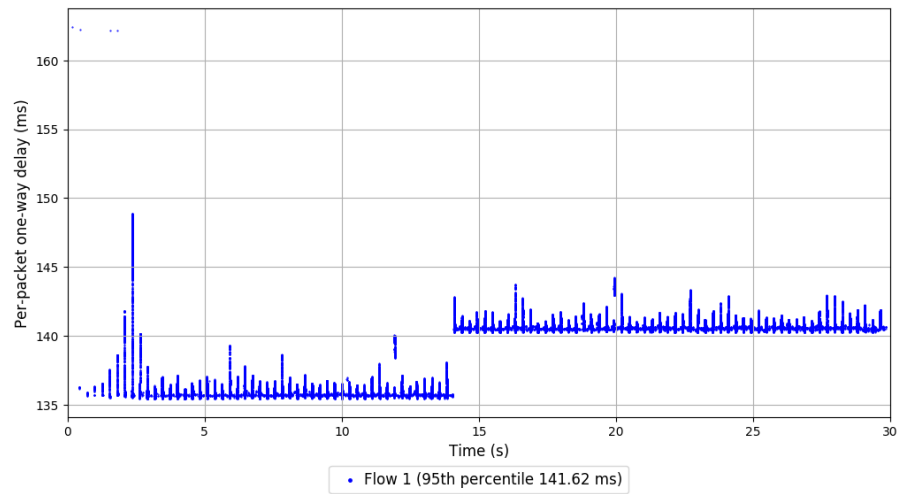
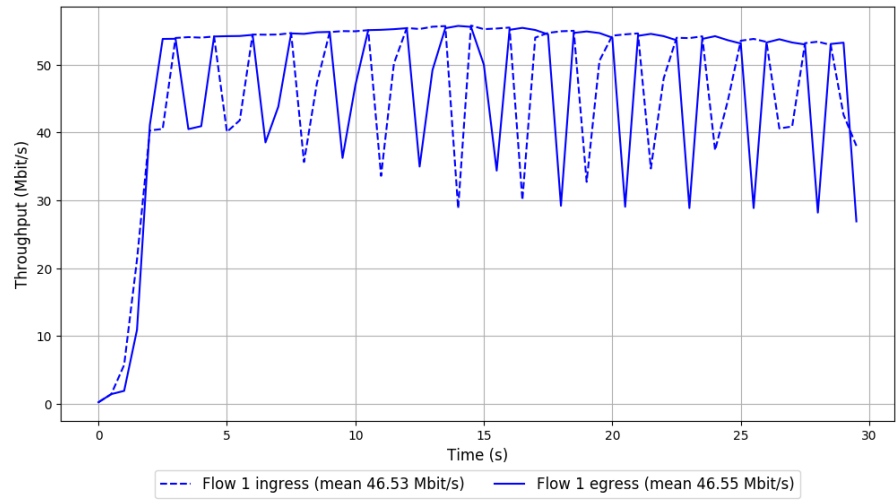
-- Flow 1:

Average throughput: 46.55 Mbit/s

95th percentile per-packet one-way delay: 141.625 ms

Loss rate: 0.95%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-28 02:08:00

End at: 2018-02-28 02:08:30

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.75 Mbit/s

95th percentile per-packet one-way delay: 170.206 ms

Loss rate: 1.01%

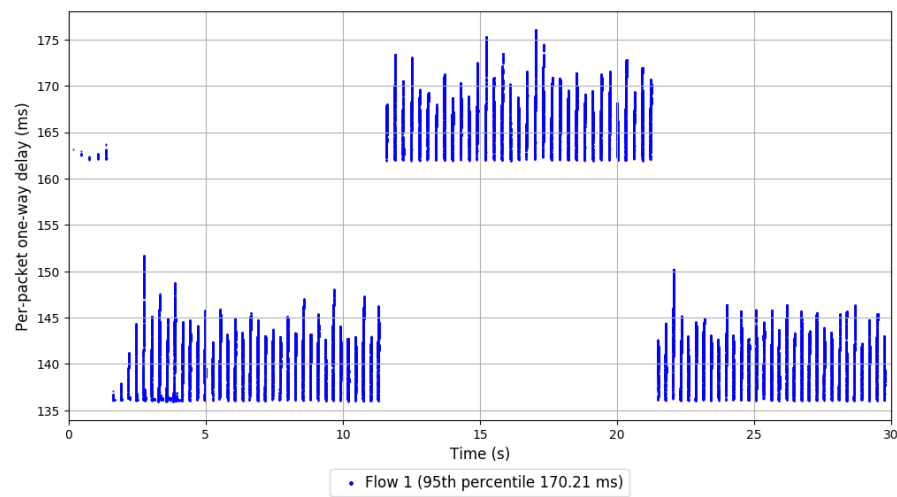
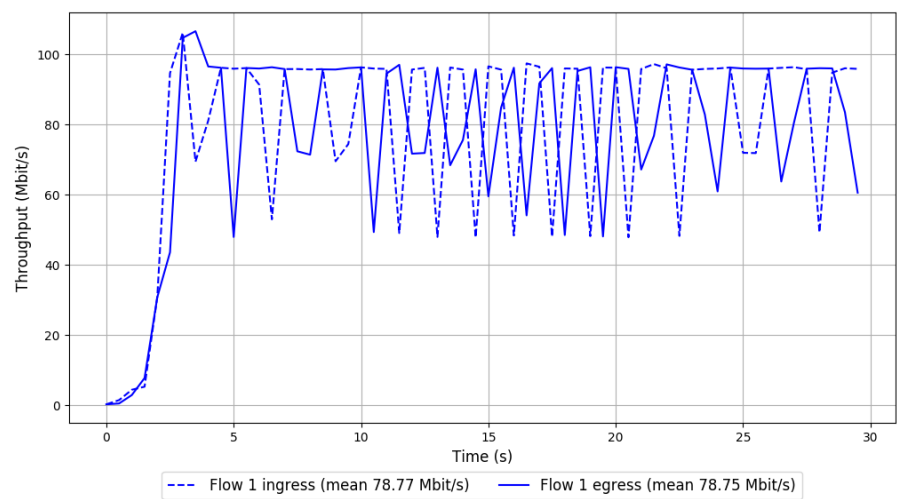
-- Flow 1:

Average throughput: 78.75 Mbit/s

95th percentile per-packet one-way delay: 170.206 ms

Loss rate: 1.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-28 02:24:29

End at: 2018-02-28 02:24:59

Below is generated by plot.py at 2018-02-28 05:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.78 Mbit/s

95th percentile per-packet one-way delay: 138.060 ms

Loss rate: 1.08%

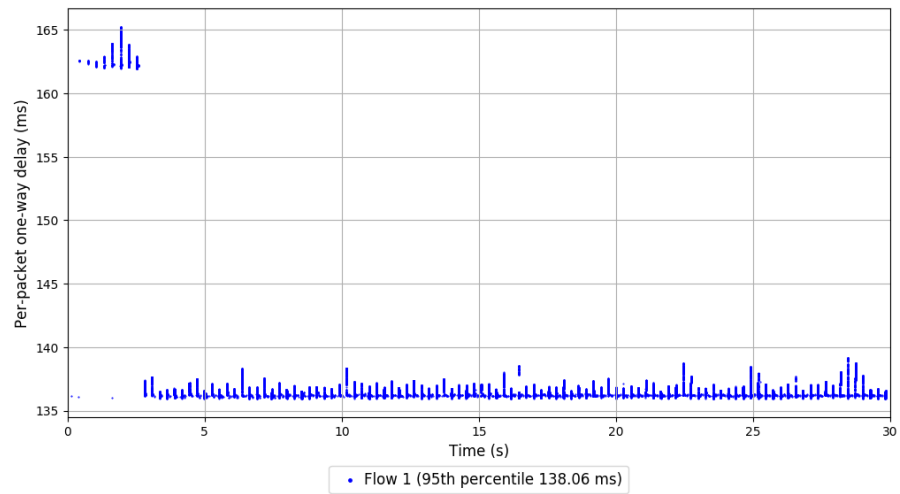
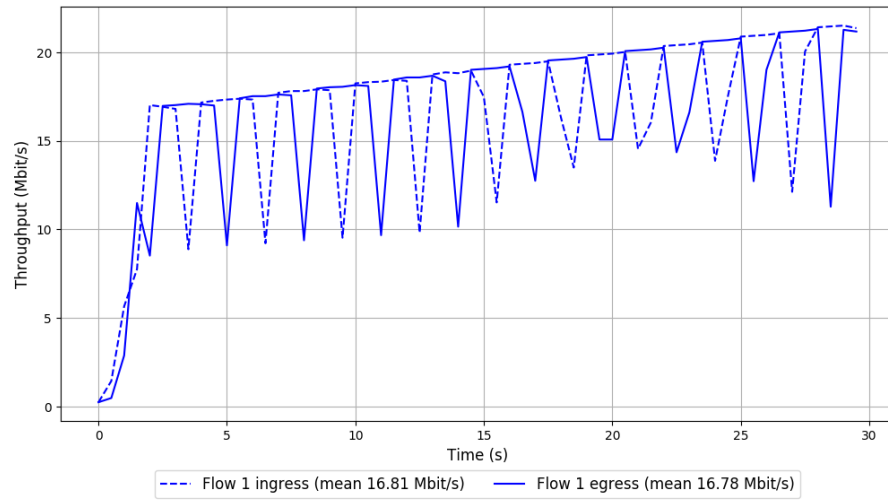
-- Flow 1:

Average throughput: 16.78 Mbit/s

95th percentile per-packet one-way delay: 138.060 ms

Loss rate: 1.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-28 00:01:31

End at: 2018-02-28 00:02:01

Below is generated by plot.py at 2018-02-28 05:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.14 Mbit/s

95th percentile per-packet one-way delay: 202.676 ms

Loss rate: 0.00%

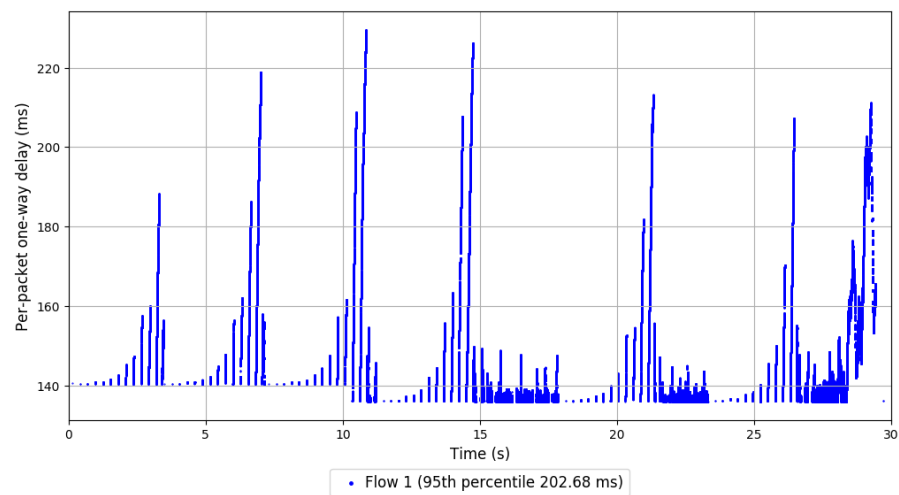
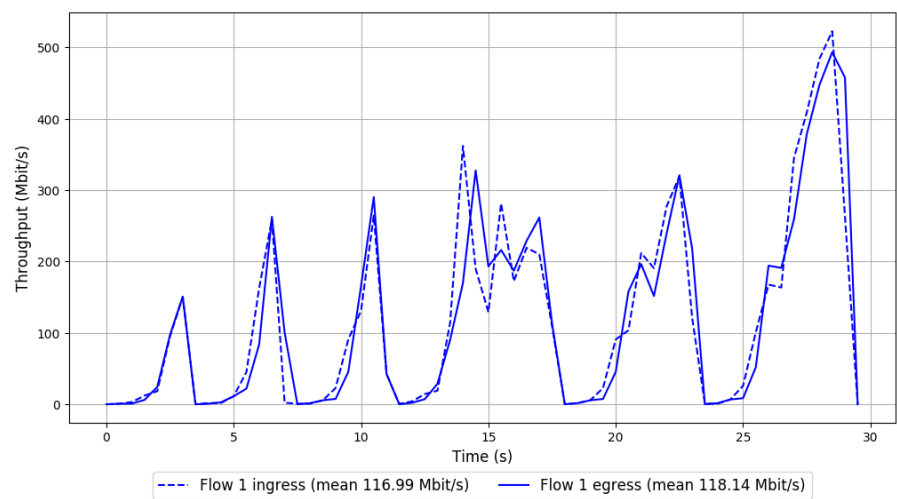
-- Flow 1:

Average throughput: 118.14 Mbit/s

95th percentile per-packet one-way delay: 202.676 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-28 00:17:42

End at: 2018-02-28 00:18:12

Below is generated by plot.py at 2018-02-28 05:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.96 Mbit/s

95th percentile per-packet one-way delay: 241.291 ms

Loss rate: 0.49%

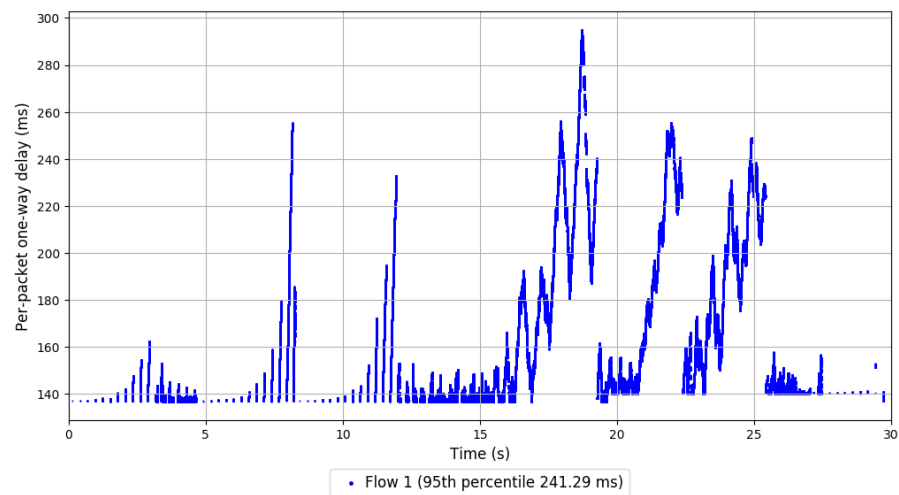
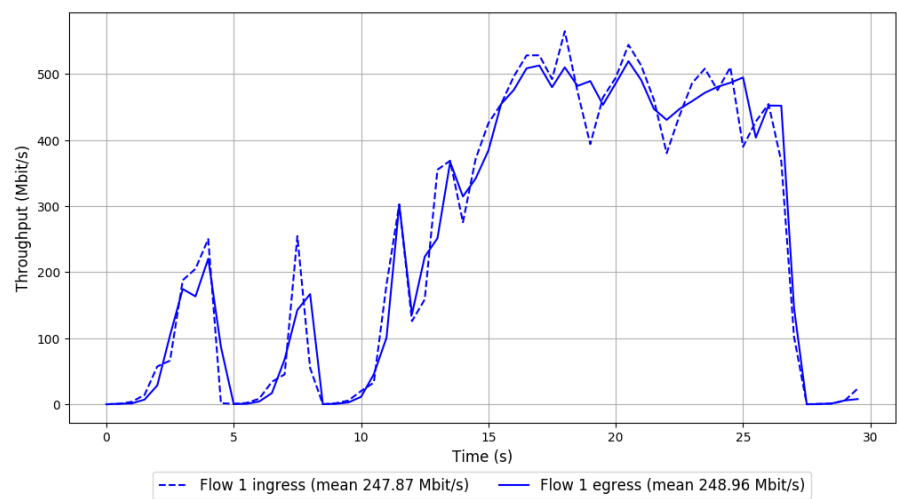
-- Flow 1:

Average throughput: 248.96 Mbit/s

95th percentile per-packet one-way delay: 241.291 ms

Loss rate: 0.49%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-28 00:33:57

End at: 2018-02-28 00:34:27

Below is generated by plot.py at 2018-02-28 05:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.94 Mbit/s

95th percentile per-packet one-way delay: 168.053 ms

Loss rate: 1.37%

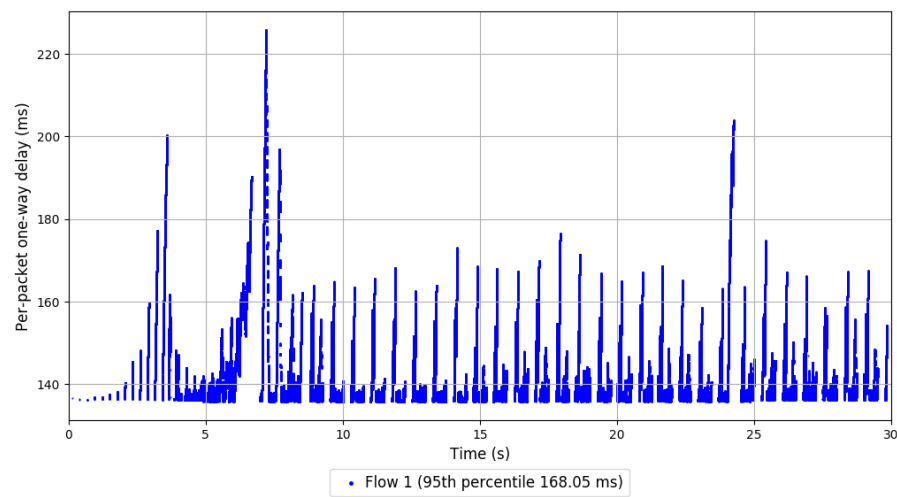
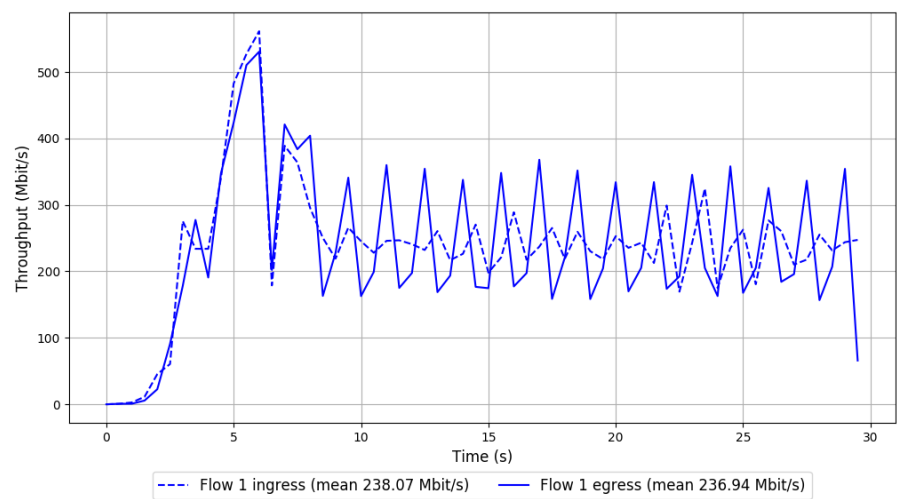
-- Flow 1:

Average throughput: 236.94 Mbit/s

95th percentile per-packet one-way delay: 168.053 ms

Loss rate: 1.37%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-28 00:50:05

End at: 2018-02-28 00:50:35

Below is generated by plot.py at 2018-02-28 05:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.08 Mbit/s

95th percentile per-packet one-way delay: 194.810 ms

Loss rate: 0.95%

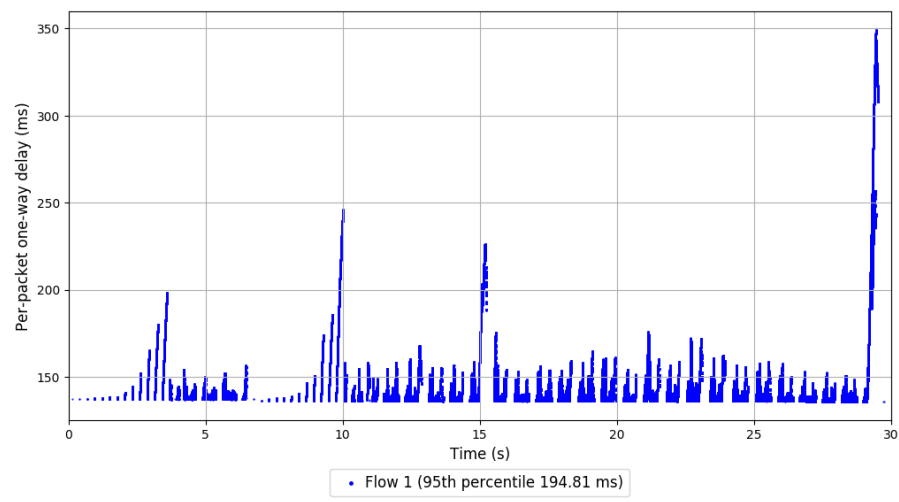
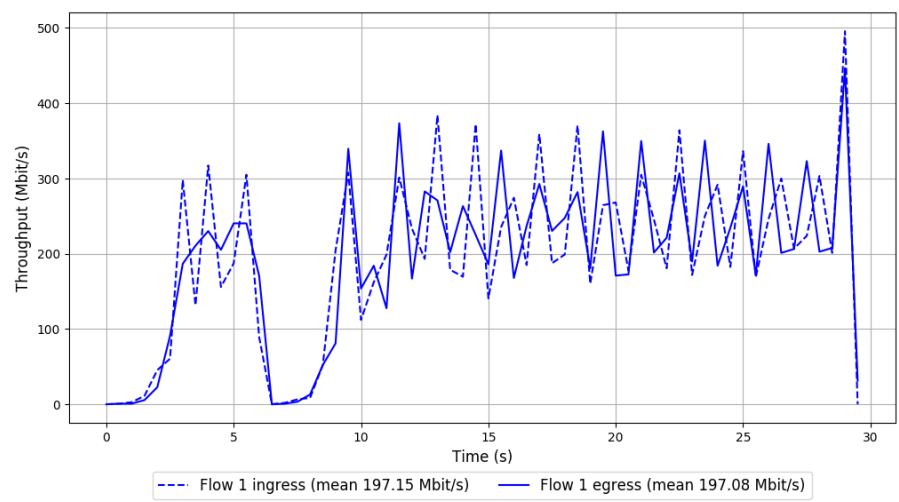
-- Flow 1:

Average throughput: 197.08 Mbit/s

95th percentile per-packet one-way delay: 194.810 ms

Loss rate: 0.95%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-28 01:05:53

End at: 2018-02-28 01:06:23

Below is generated by plot.py at 2018-02-28 05:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.67 Mbit/s

95th percentile per-packet one-way delay: 179.794 ms

Loss rate: 0.01%

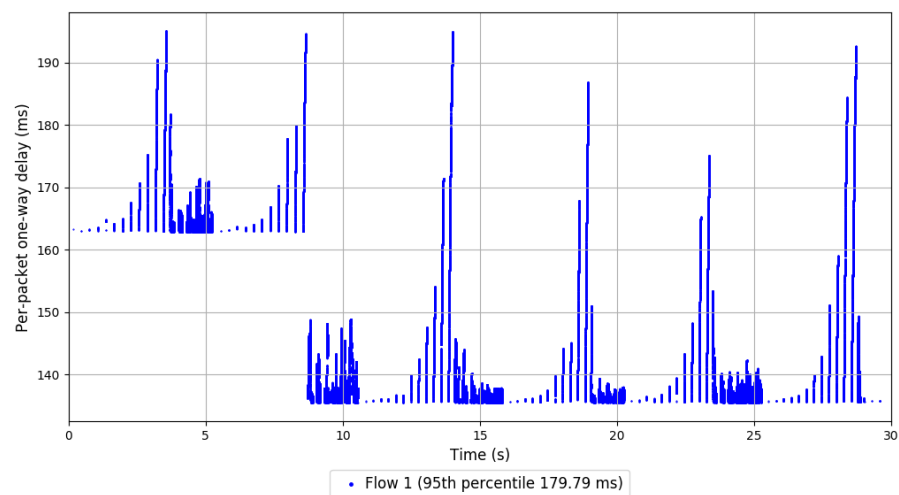
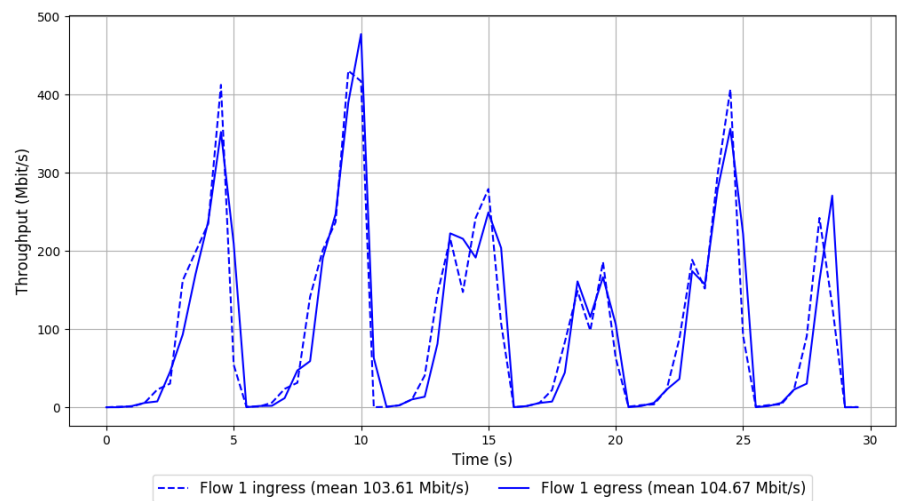
-- Flow 1:

Average throughput: 104.67 Mbit/s

95th percentile per-packet one-way delay: 179.794 ms

Loss rate: 0.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-28 01:21:45

End at: 2018-02-28 01:22:15

Below is generated by plot.py at 2018-02-28 05:48:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.67 Mbit/s

95th percentile per-packet one-way delay: 201.571 ms

Loss rate: 0.01%

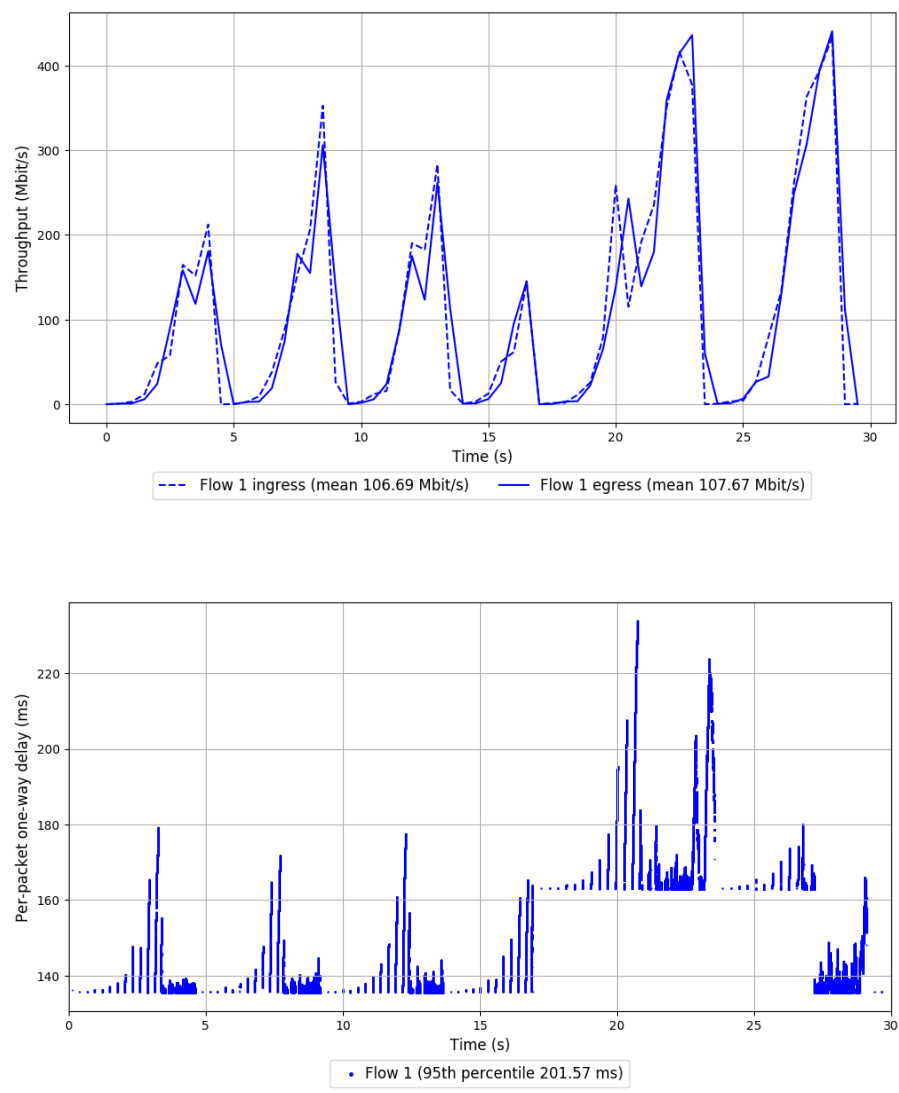
-- Flow 1:

Average throughput: 107.67 Mbit/s

95th percentile per-packet one-way delay: 201.571 ms

Loss rate: 0.01%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-28 01:37:16

End at: 2018-02-28 01:37:46

Below is generated by plot.py at 2018-02-28 05:50:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.99 Mbit/s

95th percentile per-packet one-way delay: 192.138 ms

Loss rate: 2.21%

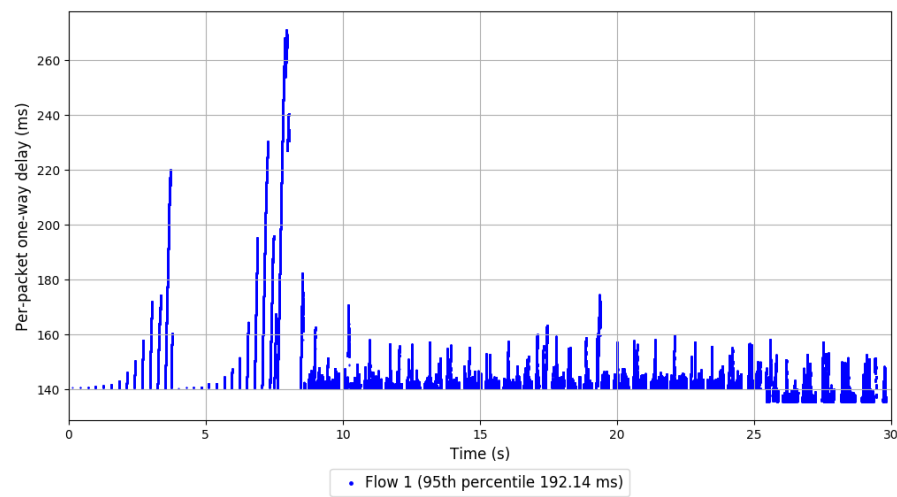
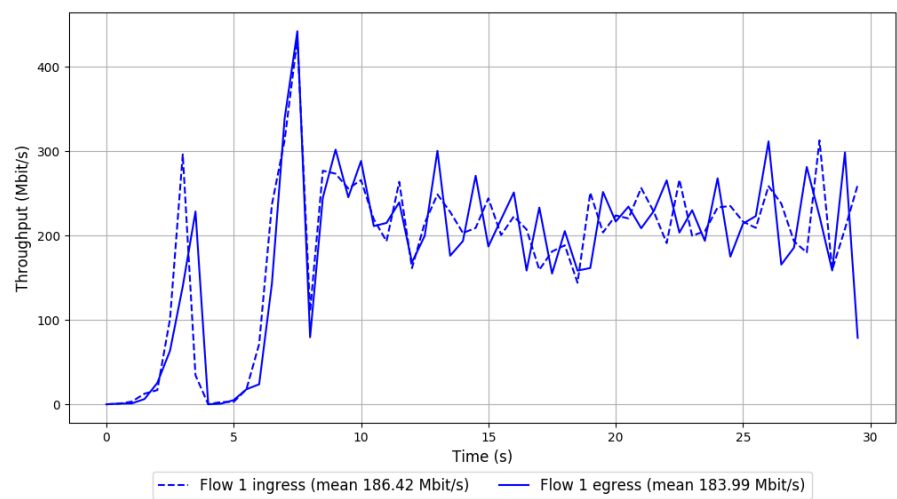
-- Flow 1:

Average throughput: 183.99 Mbit/s

95th percentile per-packet one-way delay: 192.138 ms

Loss rate: 2.21%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-28 01:53:13

End at: 2018-02-28 01:53:43

Below is generated by plot.py at 2018-02-28 05:50:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.66 Mbit/s

95th percentile per-packet one-way delay: 177.763 ms

Loss rate: 1.03%

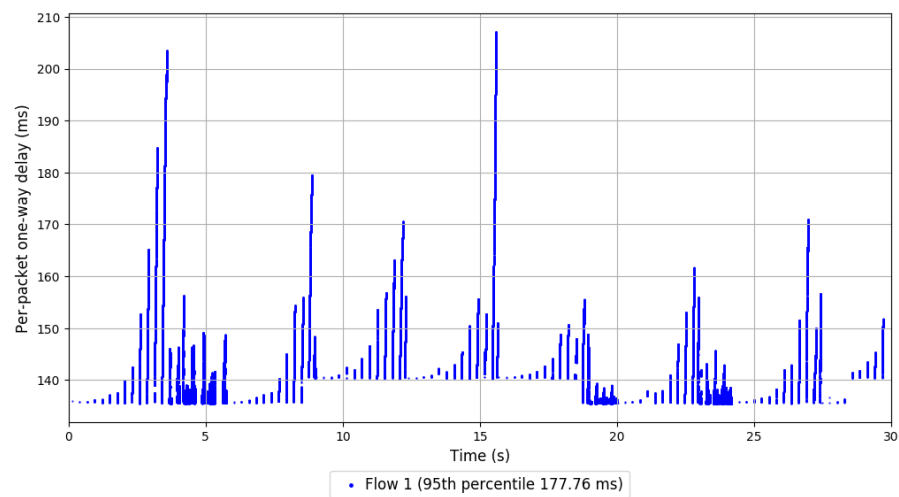
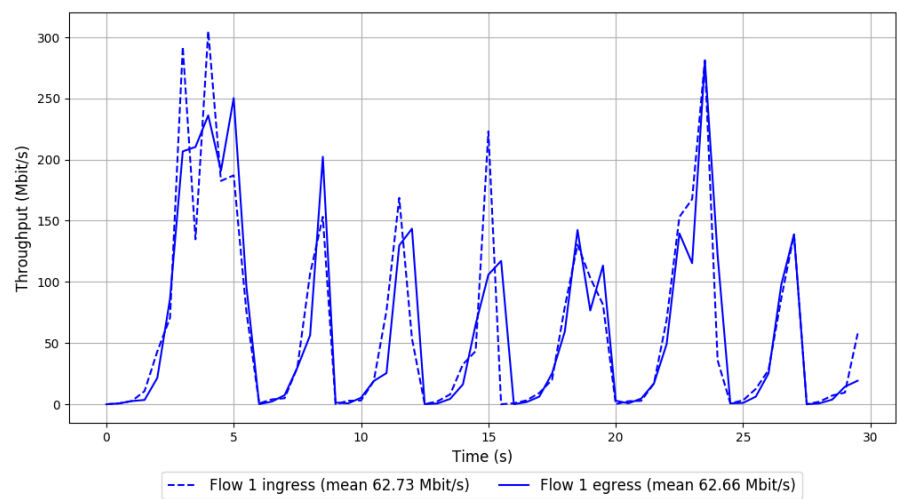
-- Flow 1:

Average throughput: 62.66 Mbit/s

95th percentile per-packet one-way delay: 177.763 ms

Loss rate: 1.03%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-28 02:08:48

End at: 2018-02-28 02:09:18

Below is generated by plot.py at 2018-02-28 05:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.12 Mbit/s

95th percentile per-packet one-way delay: 219.363 ms

Loss rate: 1.54%

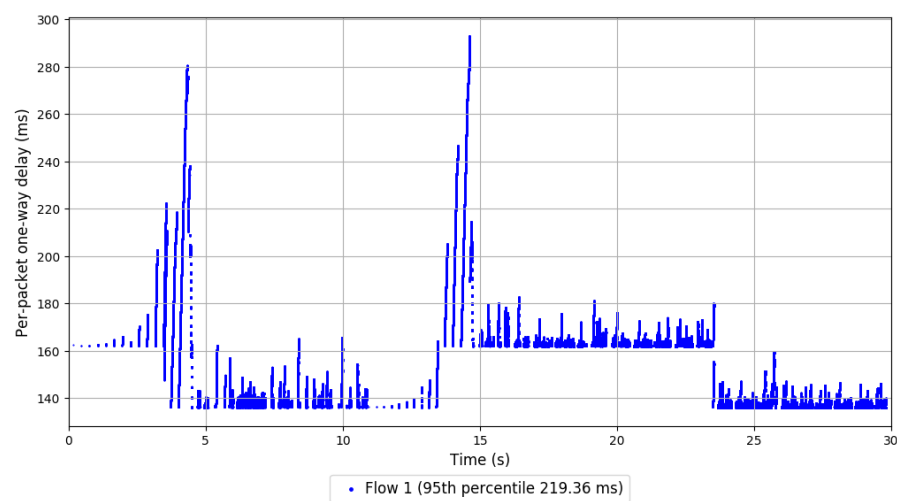
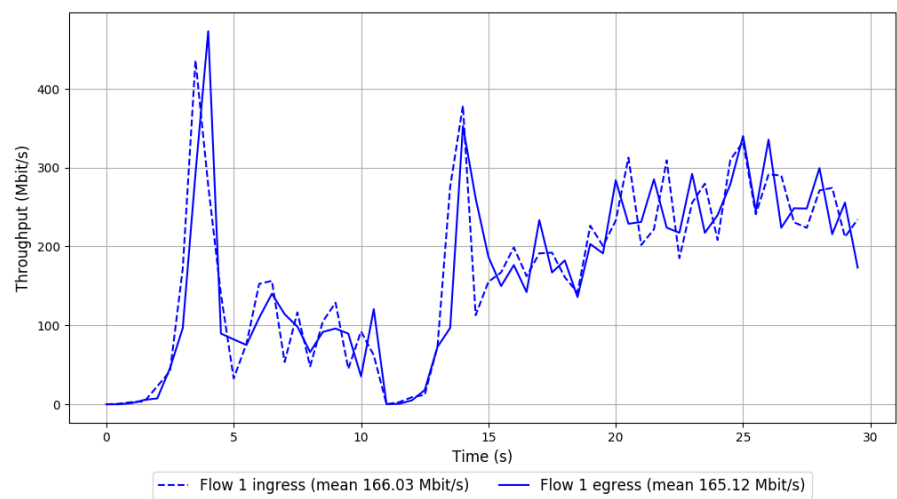
-- Flow 1:

Average throughput: 165.12 Mbit/s

95th percentile per-packet one-way delay: 219.363 ms

Loss rate: 1.54%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-28 02:25:13

End at: 2018-02-28 02:25:43

Below is generated by plot.py at 2018-02-28 05:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.37 Mbit/s

95th percentile per-packet one-way delay: 176.860 ms

Loss rate: 2.83%

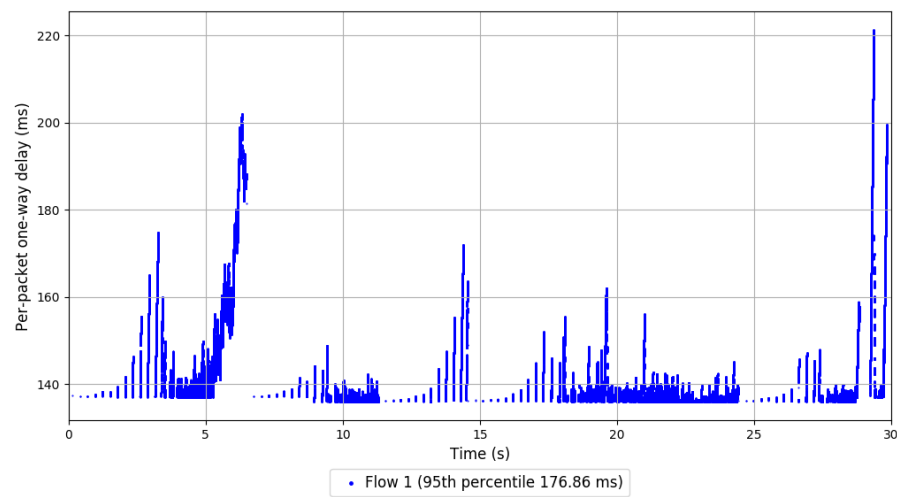
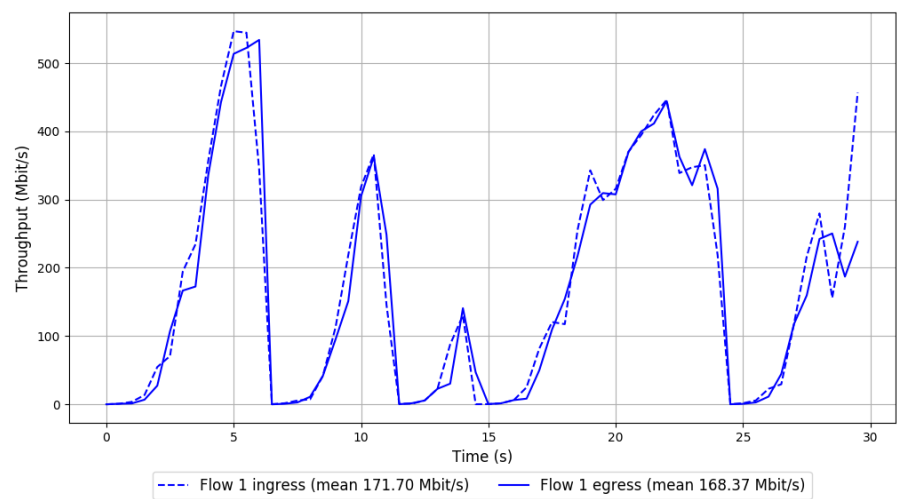
-- Flow 1:

Average throughput: 168.37 Mbit/s

95th percentile per-packet one-way delay: 176.860 ms

Loss rate: 2.83%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-28 00:12:26

End at: 2018-02-28 00:12:56

Below is generated by plot.py at 2018-02-28 05:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 140.395 ms

Loss rate: 0.13%

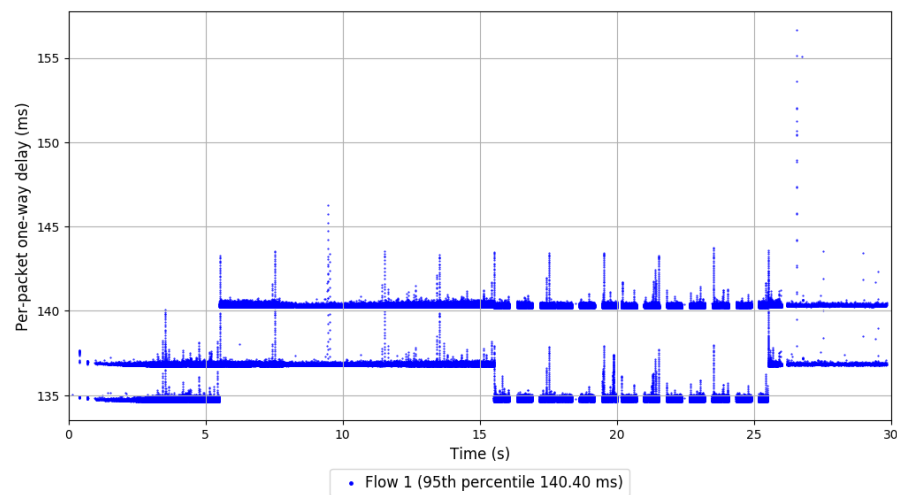
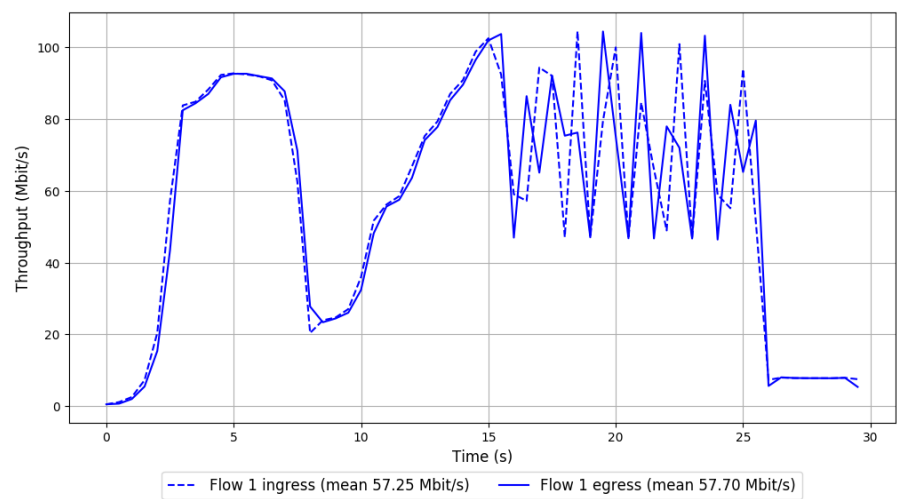
-- Flow 1:

Average throughput: 57.70 Mbit/s

95th percentile per-packet one-way delay: 140.395 ms

Loss rate: 0.13%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-28 00:28:46

End at: 2018-02-28 00:29:16

Below is generated by plot.py at 2018-02-28 05:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.31 Mbit/s

95th percentile per-packet one-way delay: 136.855 ms

Loss rate: 1.14%

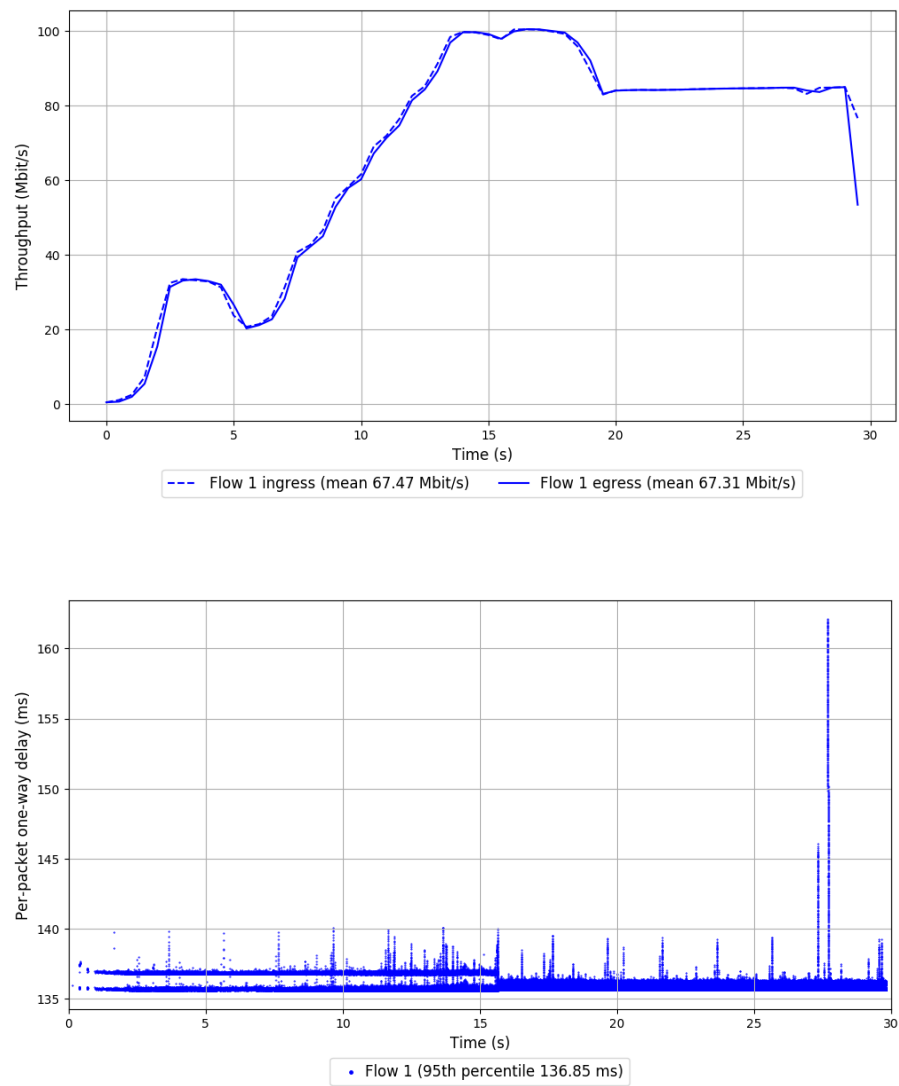
-- Flow 1:

Average throughput: 67.31 Mbit/s

95th percentile per-packet one-way delay: 136.855 ms

Loss rate: 1.14%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-28 00:45:04

End at: 2018-02-28 00:45:34

Below is generated by plot.py at 2018-02-28 05:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.32 Mbit/s

95th percentile per-packet one-way delay: 140.376 ms

Loss rate: 1.00%

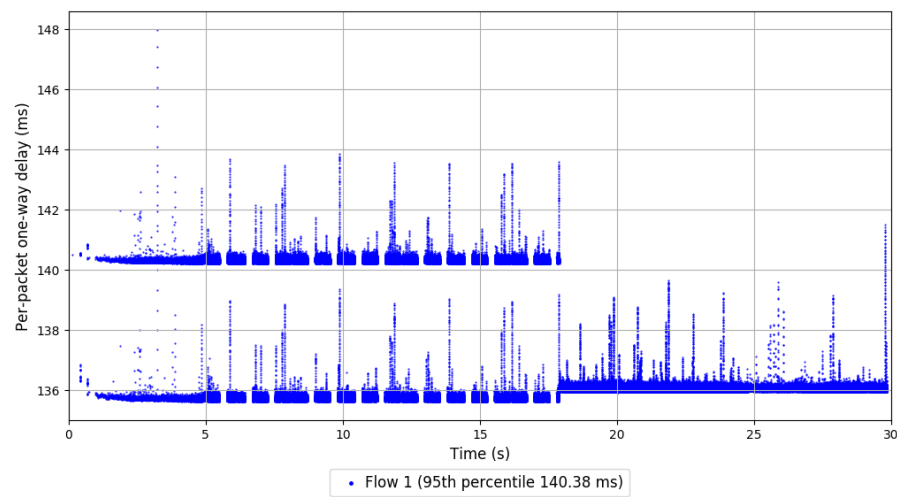
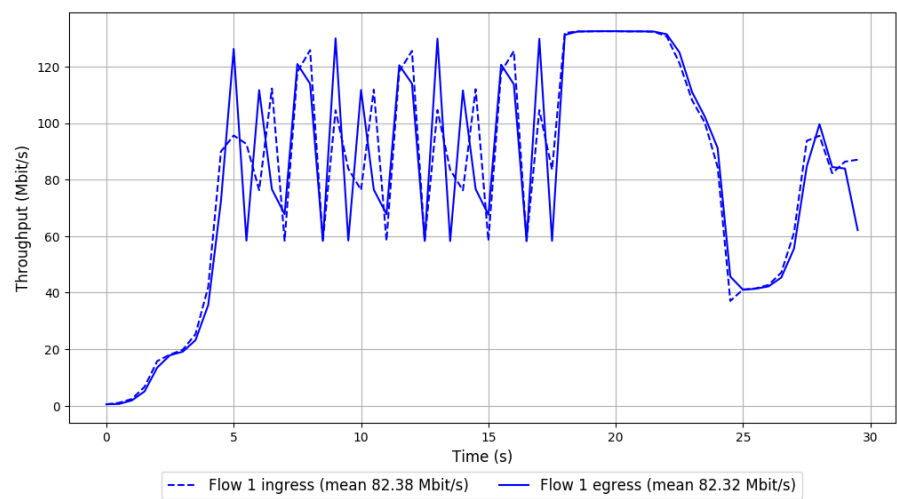
-- Flow 1:

Average throughput: 82.32 Mbit/s

95th percentile per-packet one-way delay: 140.376 ms

Loss rate: 1.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-28 01:00:54

End at: 2018-02-28 01:01:24

Below is generated by plot.py at 2018-02-28 05:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 137.181 ms

Loss rate: 0.48%

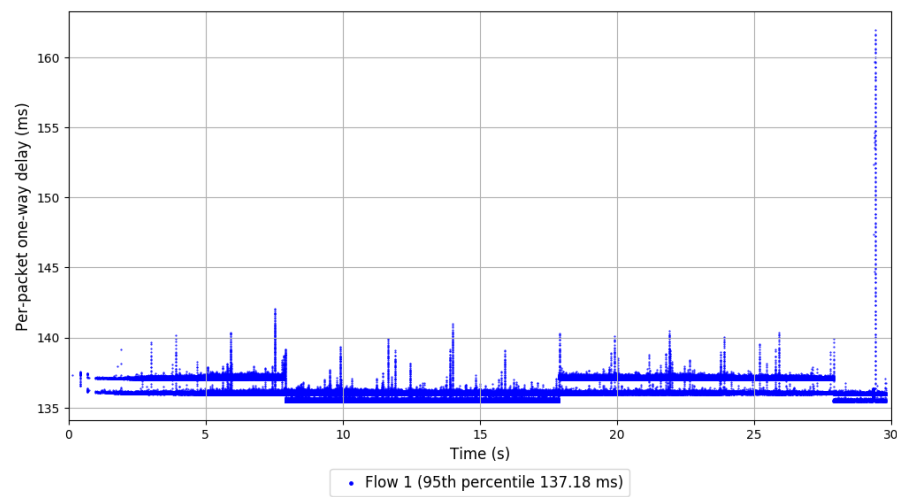
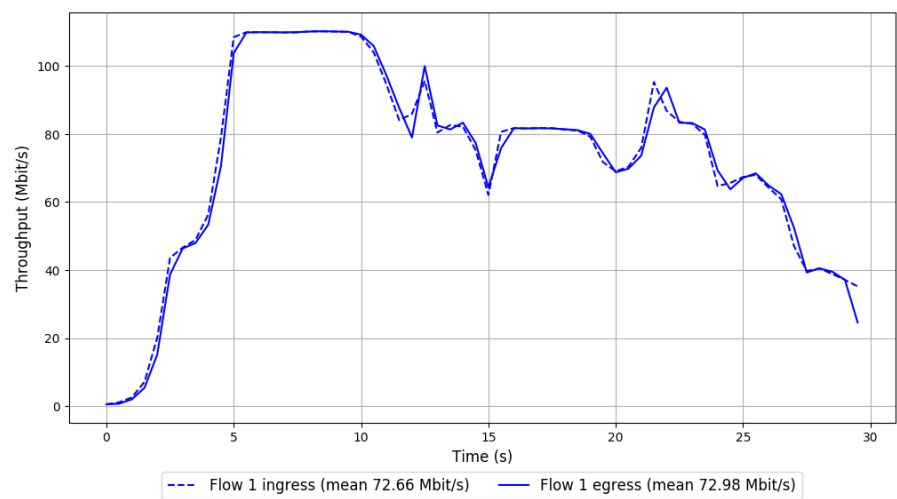
-- Flow 1:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 137.181 ms

Loss rate: 0.48%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-28 01:16:27

End at: 2018-02-28 01:16:57

Below is generated by plot.py at 2018-02-28 05:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.31 Mbit/s

95th percentile per-packet one-way delay: 162.894 ms

Loss rate: 0.95%

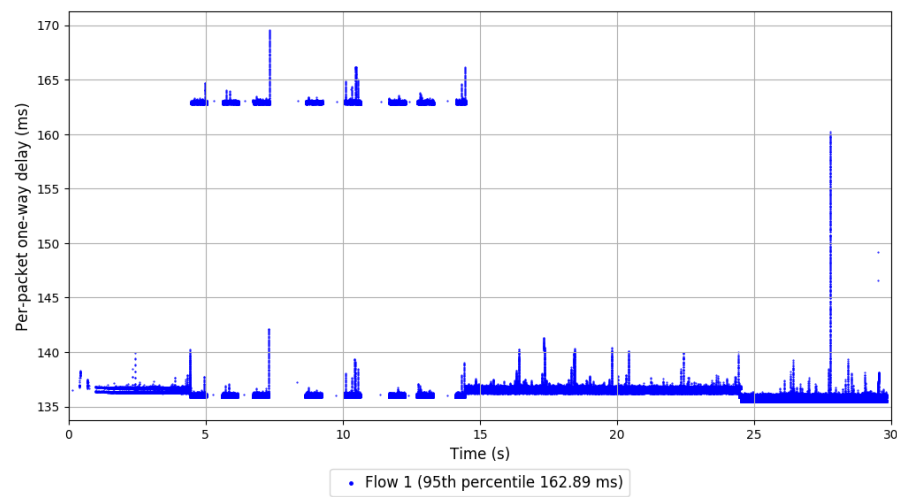
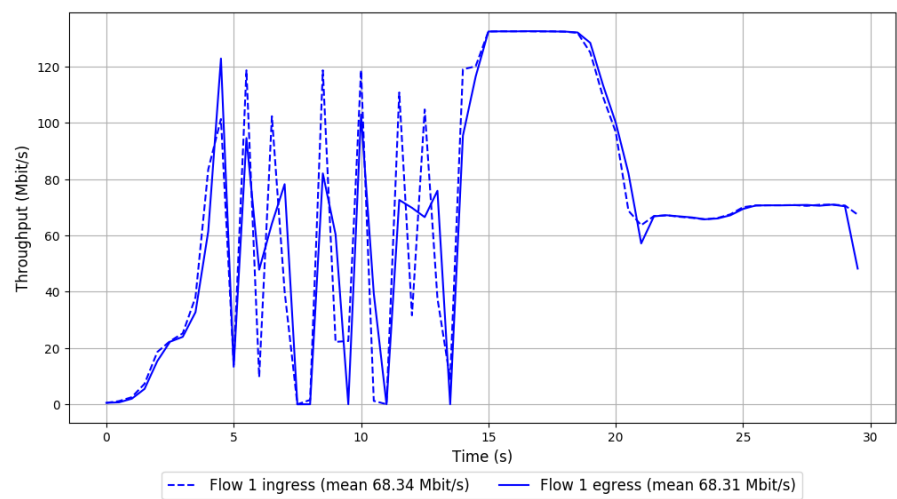
-- Flow 1:

Average throughput: 68.31 Mbit/s

95th percentile per-packet one-way delay: 162.894 ms

Loss rate: 0.95%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-28 01:32:16

End at: 2018-02-28 01:32:46

Below is generated by plot.py at 2018-02-28 05:51:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 162.951 ms

Loss rate: 3.94%

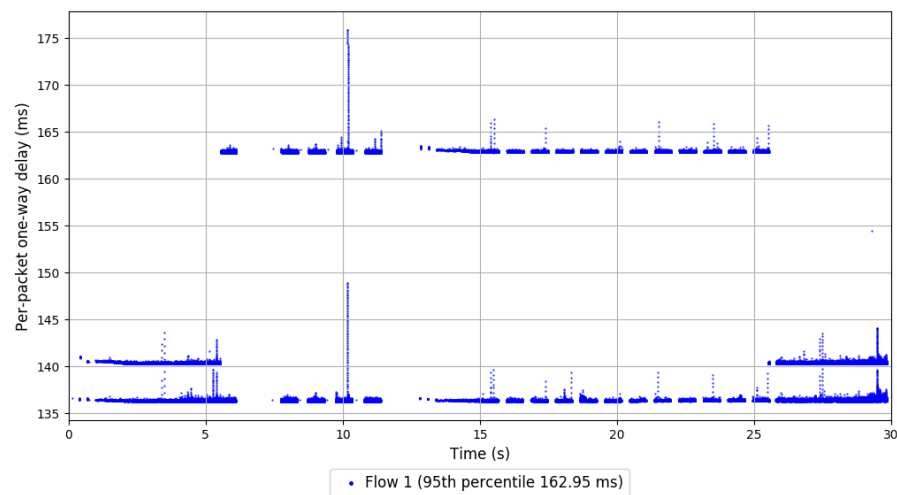
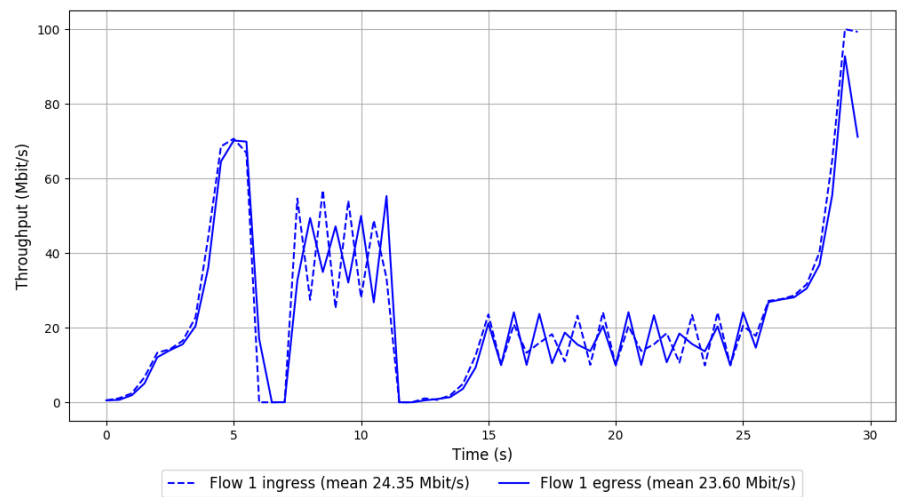
-- Flow 1:

Average throughput: 23.60 Mbit/s

95th percentile per-packet one-way delay: 162.951 ms

Loss rate: 3.94%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-28 01:48:16

End at: 2018-02-28 01:48:46

Below is generated by plot.py at 2018-02-28 05:51:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 161.913 ms

Loss rate: 1.03%

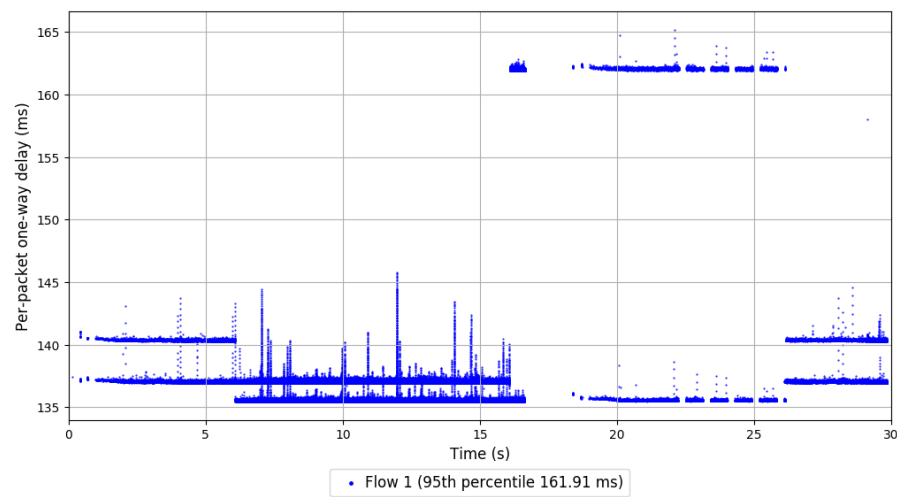
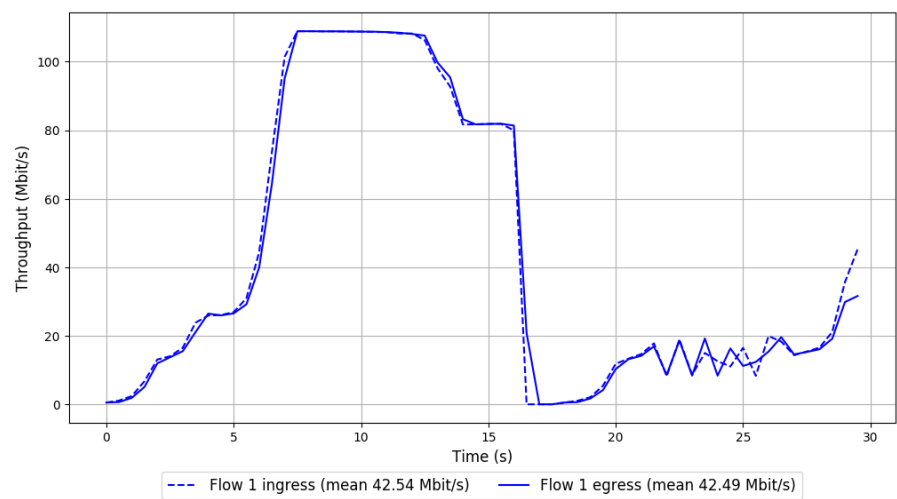
-- Flow 1:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 161.913 ms

Loss rate: 1.03%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-28 02:03:48

End at: 2018-02-28 02:04:18

Below is generated by plot.py at 2018-02-28 05:51:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.81 Mbit/s

95th percentile per-packet one-way delay: 161.917 ms

Loss rate: 3.03%

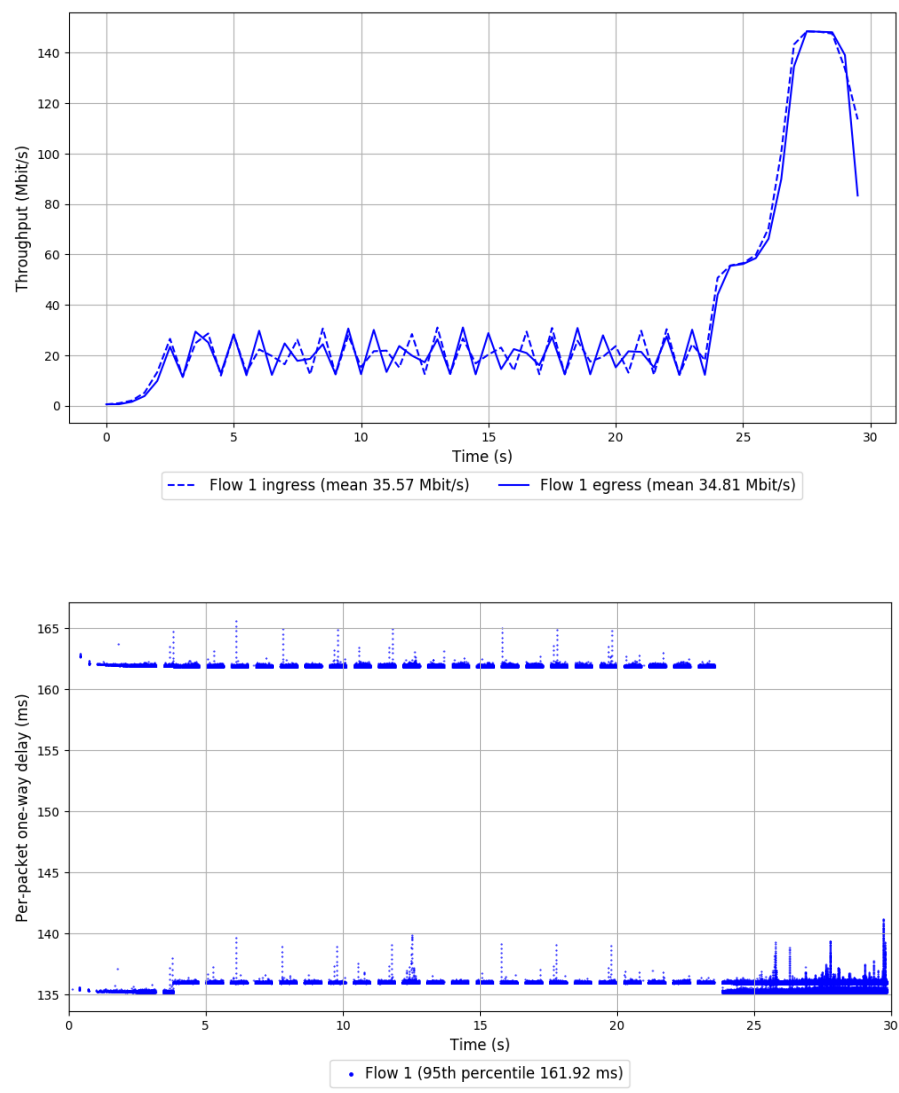
-- Flow 1:

Average throughput: 34.81 Mbit/s

95th percentile per-packet one-way delay: 161.917 ms

Loss rate: 3.03%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-28 02:19:54

End at: 2018-02-28 02:20:24

Below is generated by plot.py at 2018-02-28 05:52:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.30 Mbit/s

95th percentile per-packet one-way delay: 140.753 ms

Loss rate: 0.99%

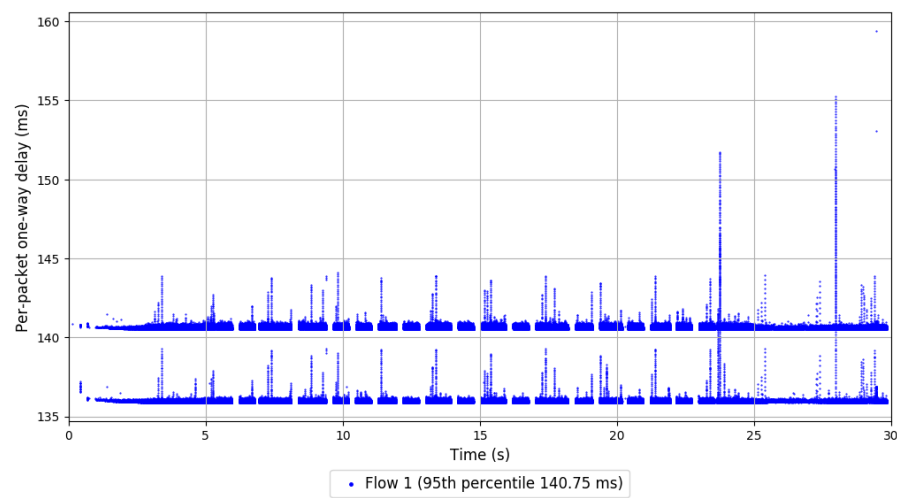
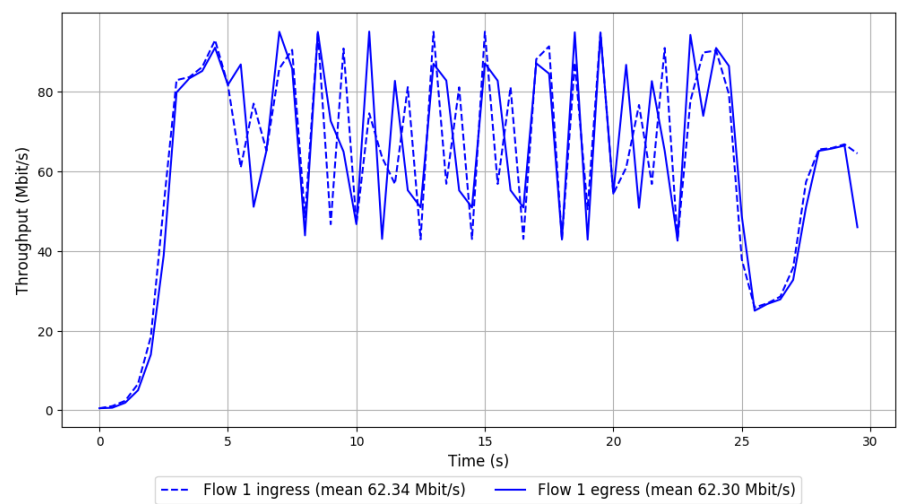
-- Flow 1:

Average throughput: 62.30 Mbit/s

95th percentile per-packet one-way delay: 140.753 ms

Loss rate: 0.99%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-28 02:36:09

End at: 2018-02-28 02:36:39

Below is generated by plot.py at 2018-02-28 05:52:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 137.173 ms

Loss rate: 1.03%

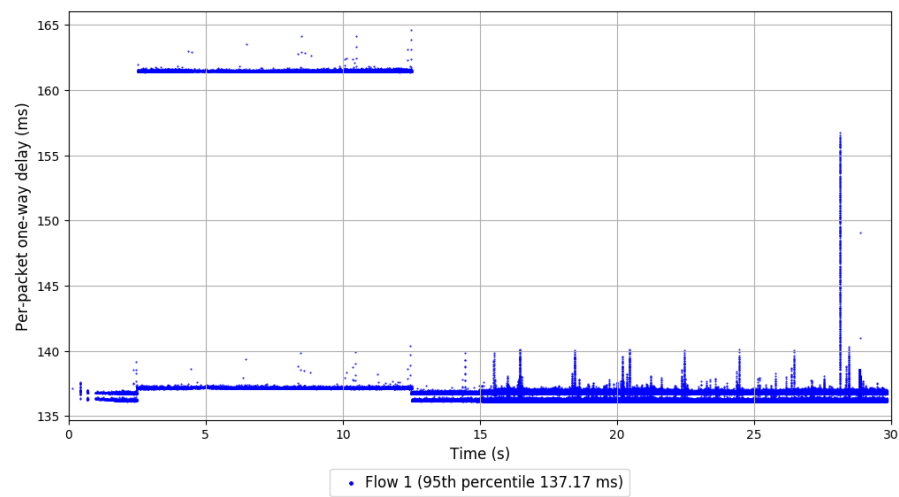
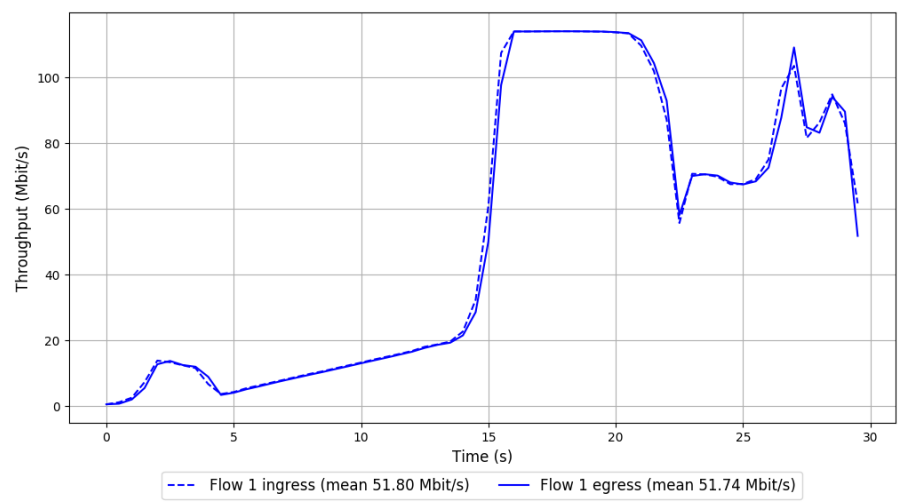
-- Flow 1:

Average throughput: 51.74 Mbit/s

95th percentile per-packet one-way delay: 137.173 ms

Loss rate: 1.03%

Run 10: Report of Copa — Data Link

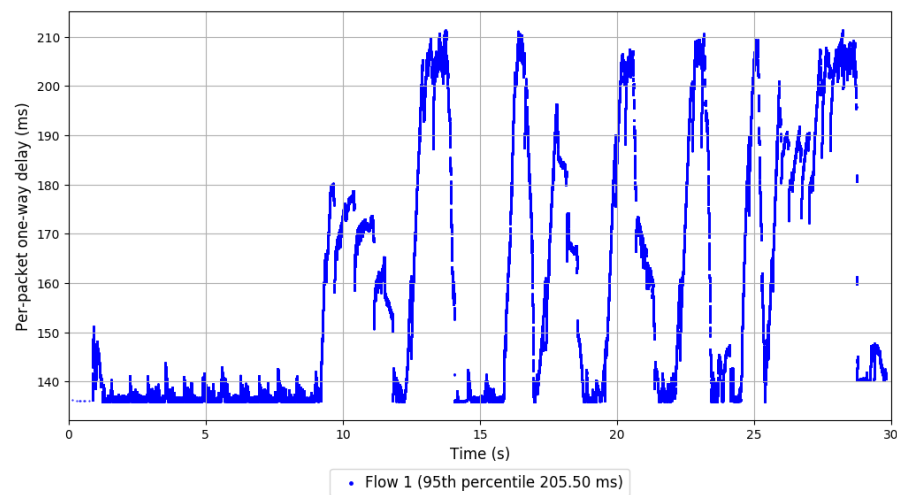
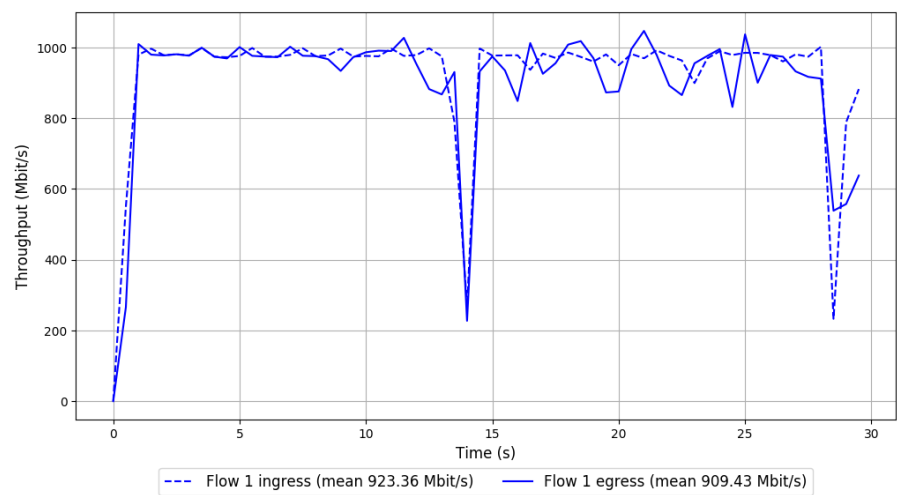


```
Run 1: Statistics of FillP

Start at: 2018-02-28 00:03:14
End at: 2018-02-28 00:03:44

# Below is generated by plot.py at 2018-02-28 06:07:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 909.43 Mbit/s
95th percentile per-packet one-way delay: 205.499 ms
Loss rate: 2.41%
-- Flow 1:
Average throughput: 909.43 Mbit/s
95th percentile per-packet one-way delay: 205.499 ms
Loss rate: 2.41%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-28 00:19:35

End at: 2018-02-28 00:20:05

Below is generated by plot.py at 2018-02-28 06:07:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 868.47 Mbit/s

95th percentile per-packet one-way delay: 205.118 ms

Loss rate: 4.81%

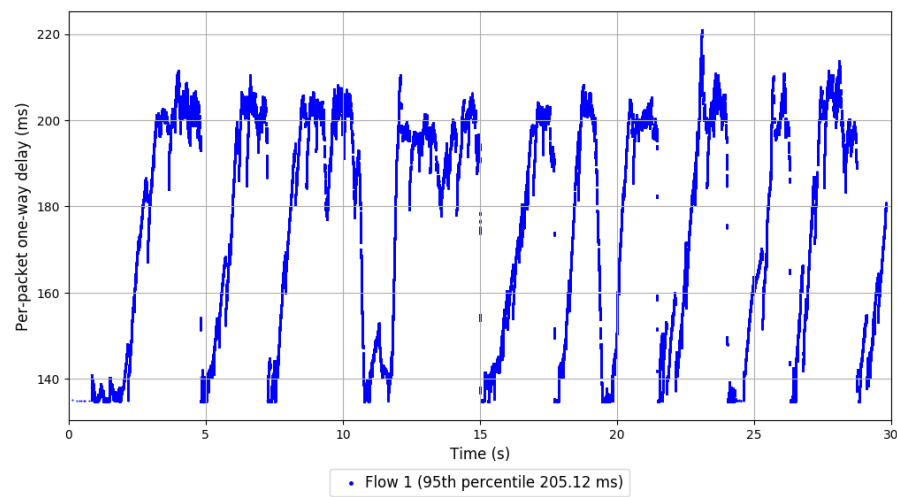
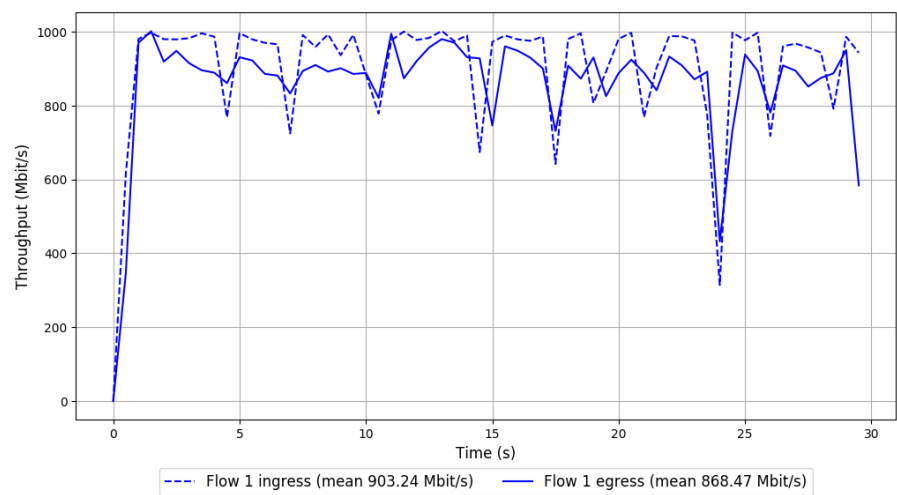
-- Flow 1:

Average throughput: 868.47 Mbit/s

95th percentile per-packet one-way delay: 205.118 ms

Loss rate: 4.81%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-28 00:35:53

End at: 2018-02-28 00:36:23

Below is generated by plot.py at 2018-02-28 06:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 928.58 Mbit/s

95th percentile per-packet one-way delay: 246.679 ms

Loss rate: 1.83%

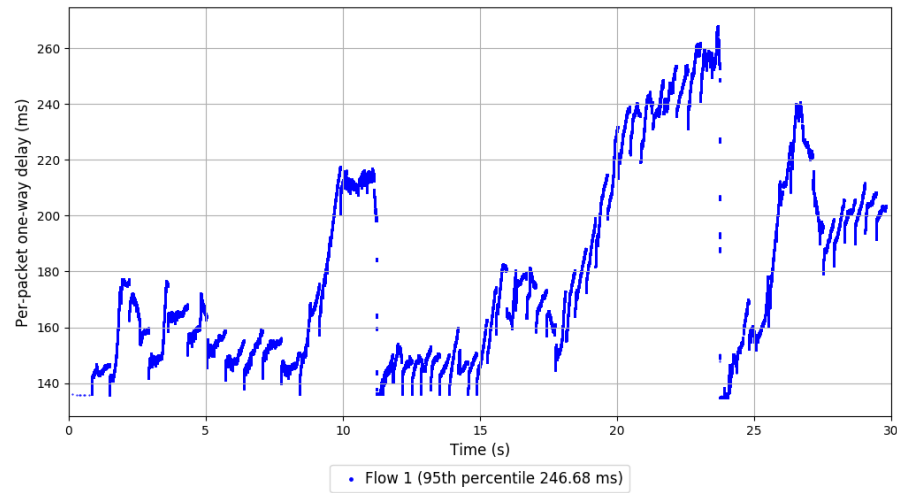
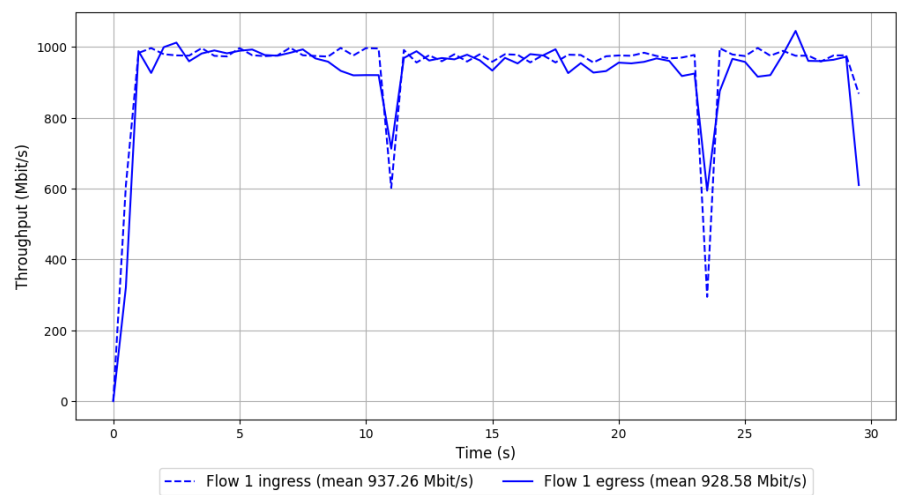
-- Flow 1:

Average throughput: 928.58 Mbit/s

95th percentile per-packet one-way delay: 246.679 ms

Loss rate: 1.83%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-28 00:51:54

End at: 2018-02-28 00:52:24

Below is generated by plot.py at 2018-02-28 06:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 902.27 Mbit/s

95th percentile per-packet one-way delay: 206.655 ms

Loss rate: 3.56%

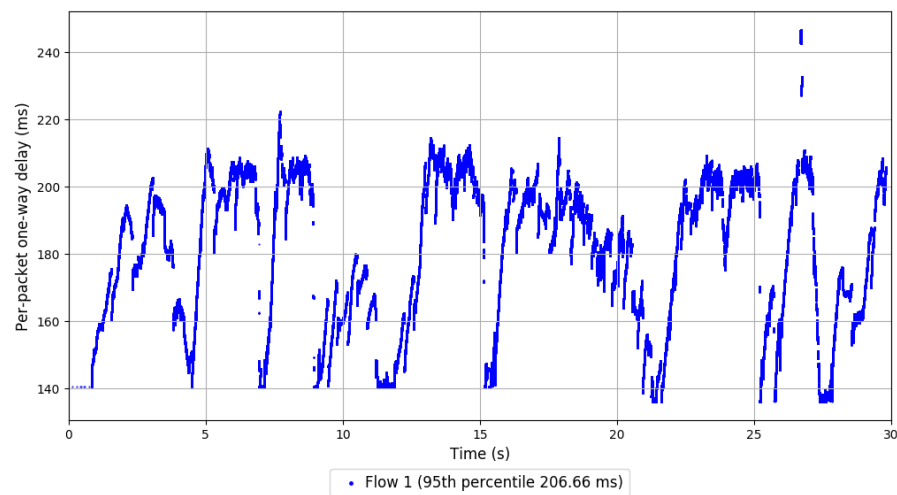
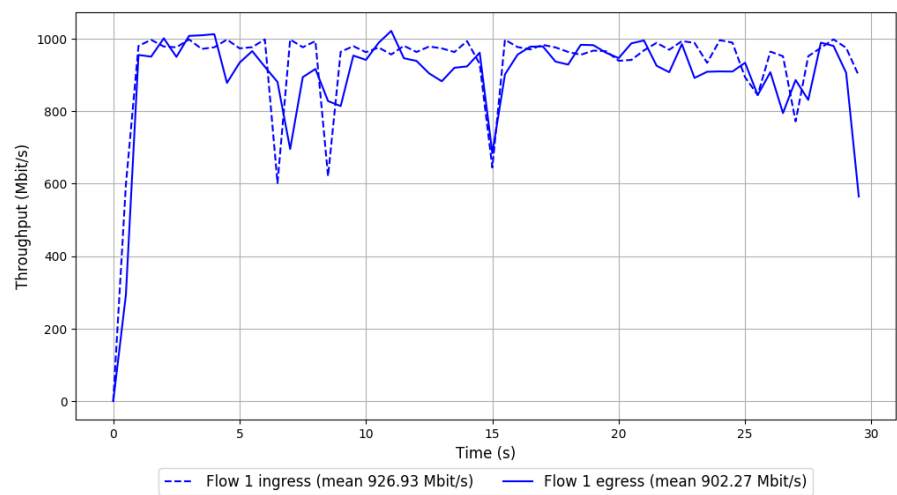
-- Flow 1:

Average throughput: 902.27 Mbit/s

95th percentile per-packet one-way delay: 206.655 ms

Loss rate: 3.56%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-28 01:07:38

End at: 2018-02-28 01:08:08

Below is generated by plot.py at 2018-02-28 06:07:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 809.01 Mbit/s

95th percentile per-packet one-way delay: 255.243 ms

Loss rate: 6.06%

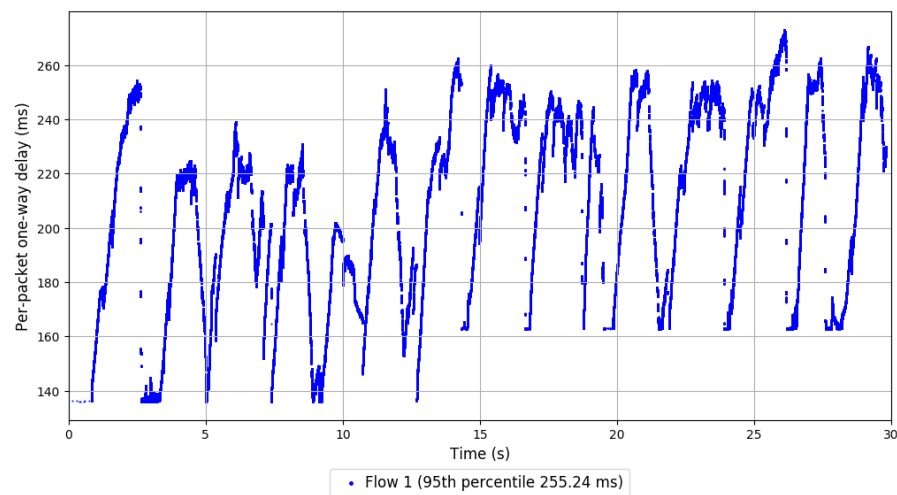
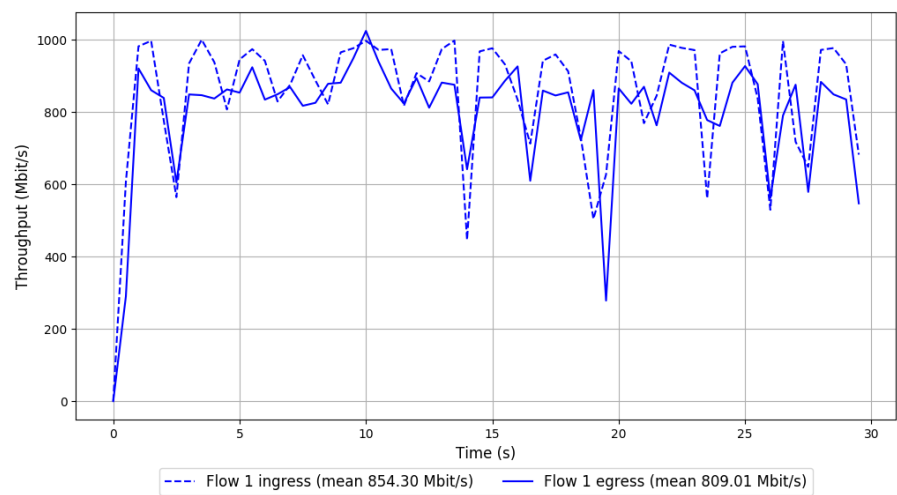
-- Flow 1:

Average throughput: 809.01 Mbit/s

95th percentile per-packet one-way delay: 255.243 ms

Loss rate: 6.06%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-28 01:23:30

End at: 2018-02-28 01:24:00

Below is generated by plot.py at 2018-02-28 06:09:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 953.23 Mbit/s

95th percentile per-packet one-way delay: 195.997 ms

Loss rate: 1.28%

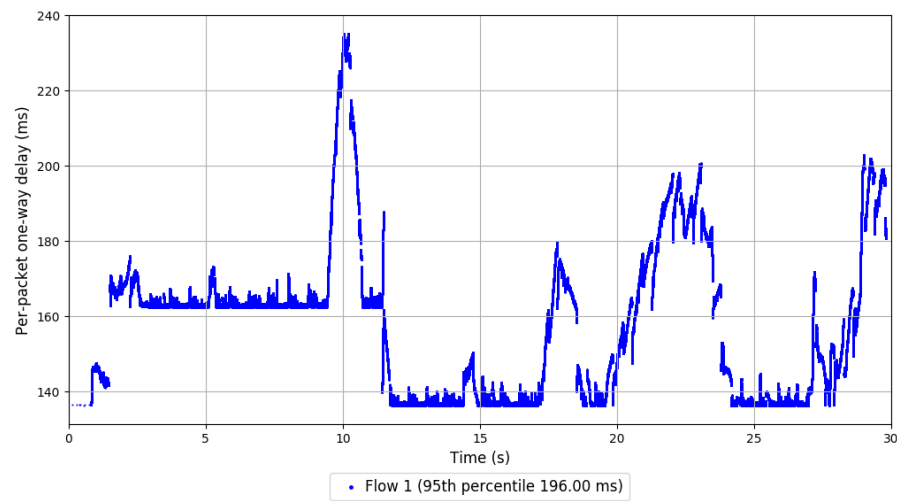
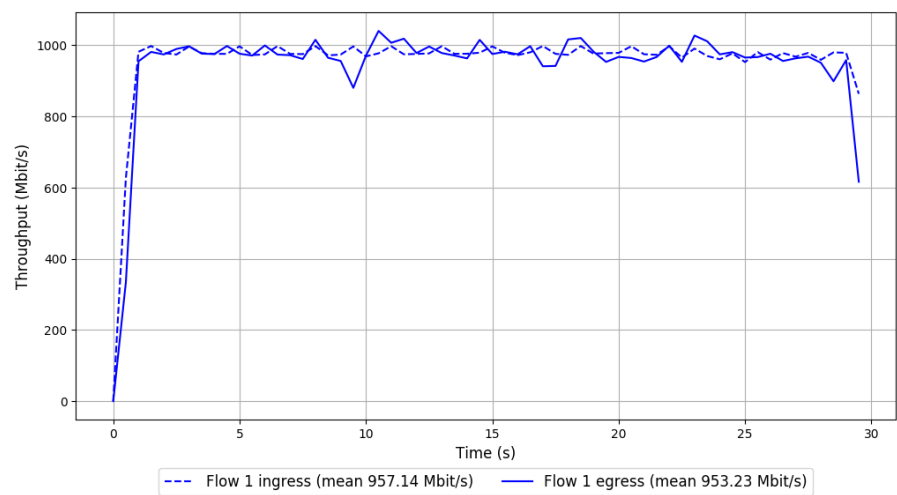
-- Flow 1:

Average throughput: 953.23 Mbit/s

95th percentile per-packet one-way delay: 195.997 ms

Loss rate: 1.28%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-28 01:39:05

End at: 2018-02-28 01:39:35

Below is generated by plot.py at 2018-02-28 06:09:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 742.69 Mbit/s

95th percentile per-packet one-way delay: 241.221 ms

Loss rate: 13.16%

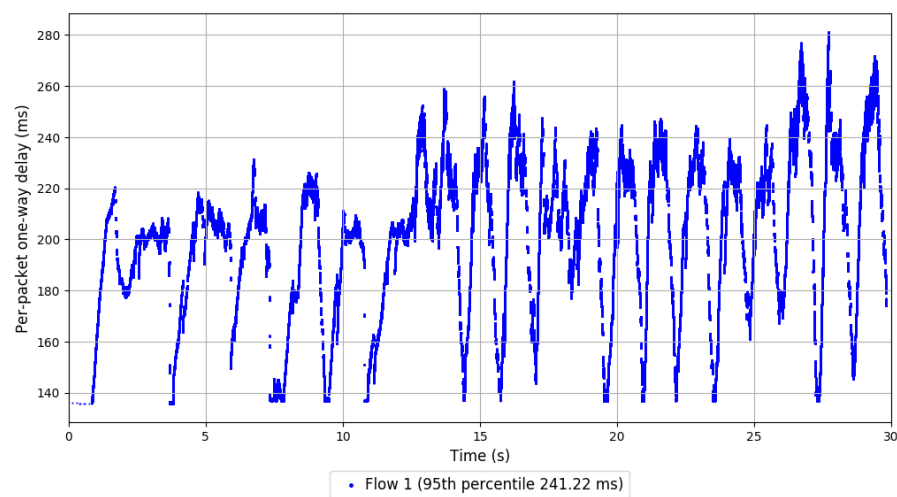
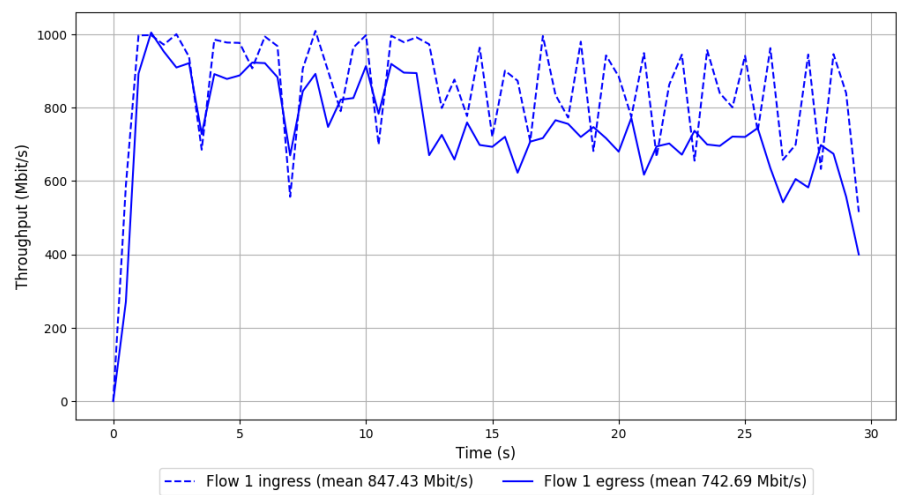
-- Flow 1:

Average throughput: 742.69 Mbit/s

95th percentile per-packet one-way delay: 241.221 ms

Loss rate: 13.16%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-28 01:54:52

End at: 2018-02-28 01:55:22

Below is generated by plot.py at 2018-02-28 06:09:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 799.02 Mbit/s

95th percentile per-packet one-way delay: 242.191 ms

Loss rate: 8.21%

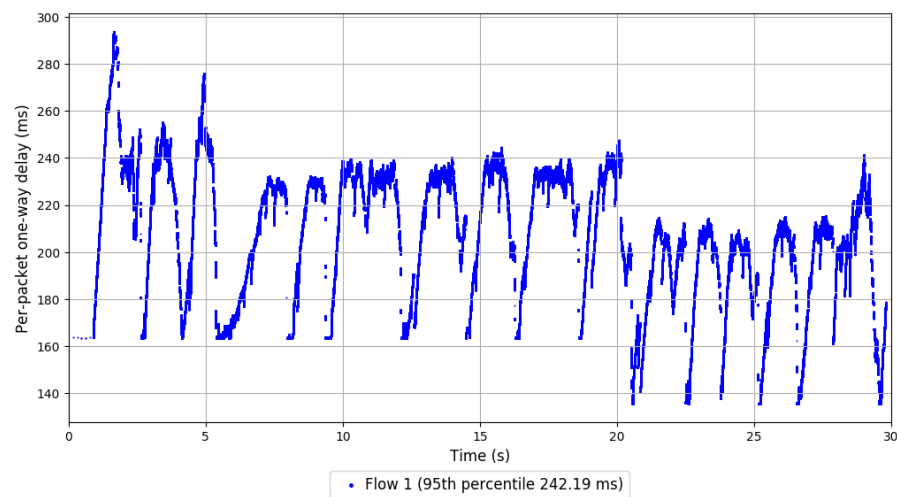
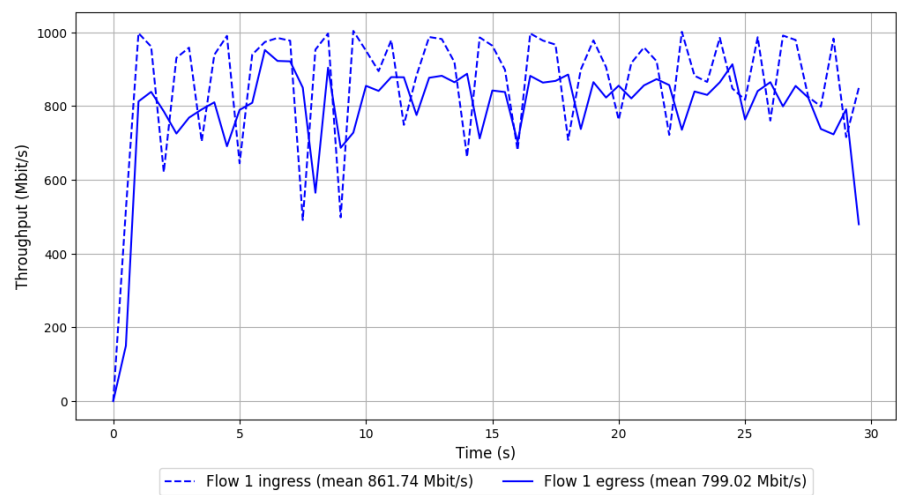
-- Flow 1:

Average throughput: 799.02 Mbit/s

95th percentile per-packet one-way delay: 242.191 ms

Loss rate: 8.21%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-28 02:10:35

End at: 2018-02-28 02:11:05

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 919.92 Mbit/s

95th percentile per-packet one-way delay: 220.892 ms

Loss rate: 2.18%

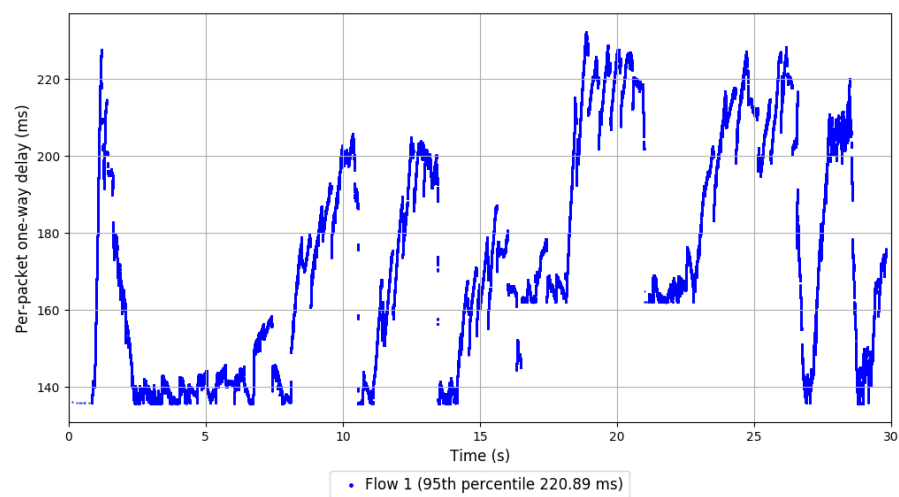
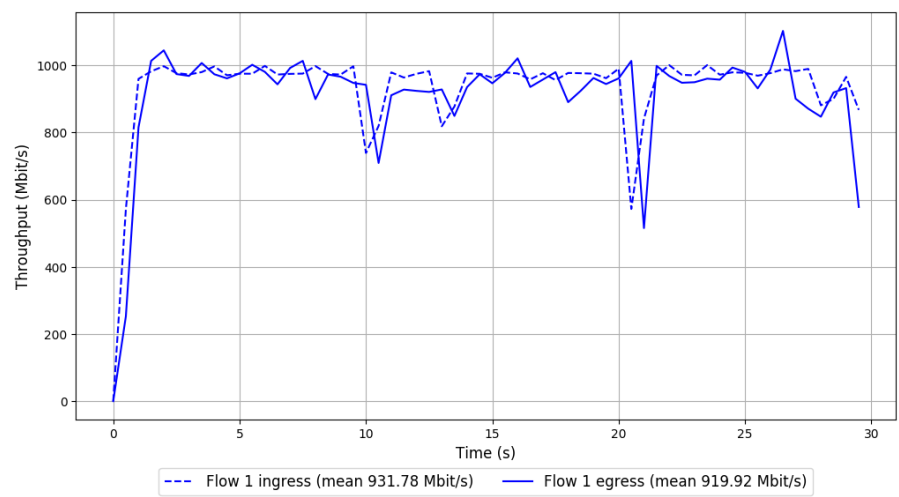
-- Flow 1:

Average throughput: 919.92 Mbit/s

95th percentile per-packet one-way delay: 220.892 ms

Loss rate: 2.18%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-28 02:27:01

End at: 2018-02-28 02:27:31

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.86 Mbit/s

95th percentile per-packet one-way delay: 216.821 ms

Loss rate: 5.80%

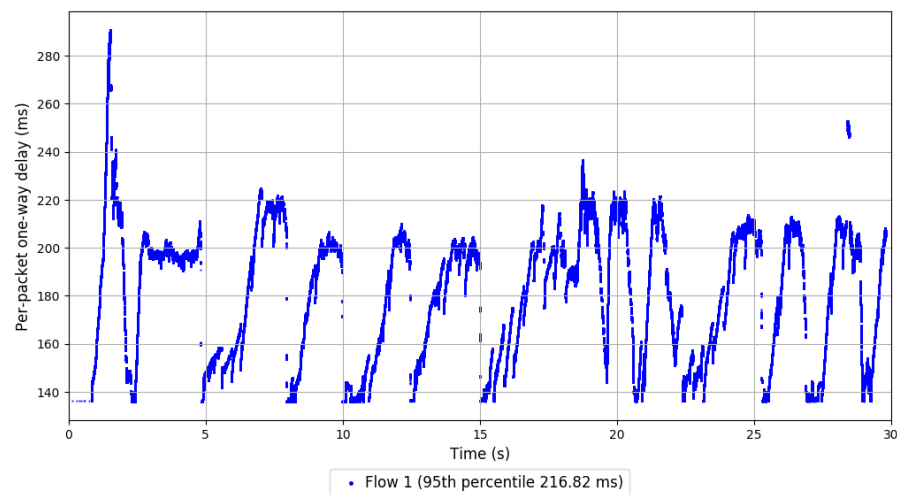
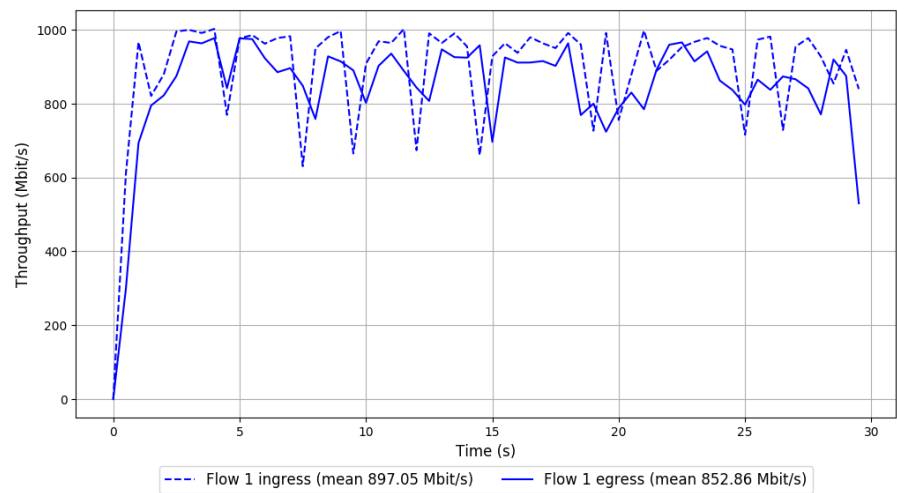
-- Flow 1:

Average throughput: 852.86 Mbit/s

95th percentile per-packet one-way delay: 216.821 ms

Loss rate: 5.80%

Run 10: Report of FillP — Data Link

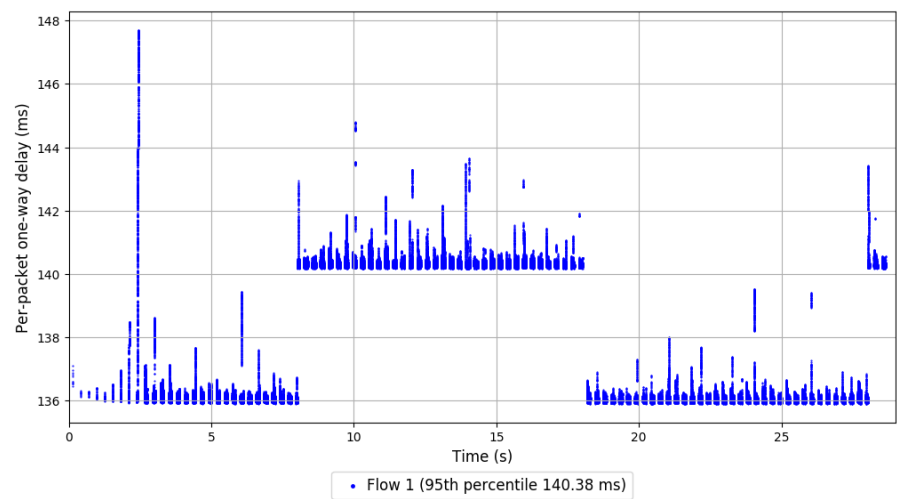
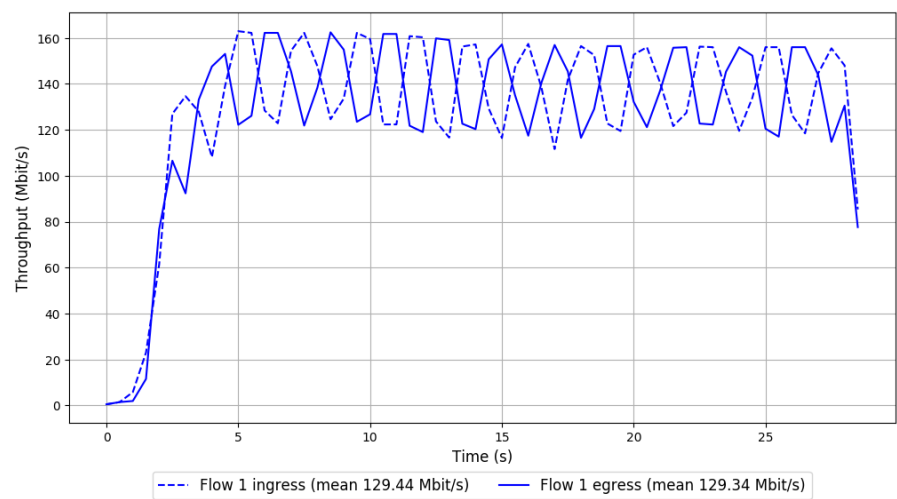


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-28 00:02:23
End at: 2018-02-28 00:02:53

# Below is generated by plot.py at 2018-02-28 06:23:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 129.34 Mbit/s
95th percentile per-packet one-way delay: 140.378 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 129.34 Mbit/s
95th percentile per-packet one-way delay: 140.378 ms
Loss rate: 1.04%
```

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

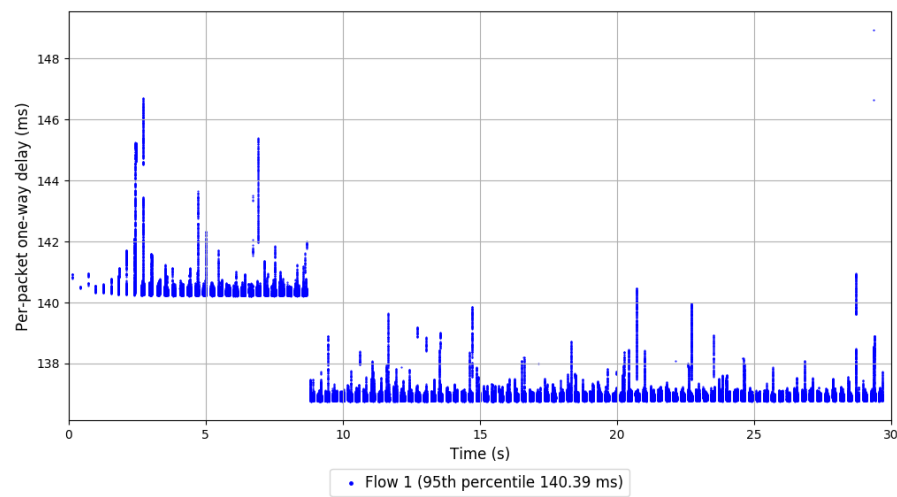
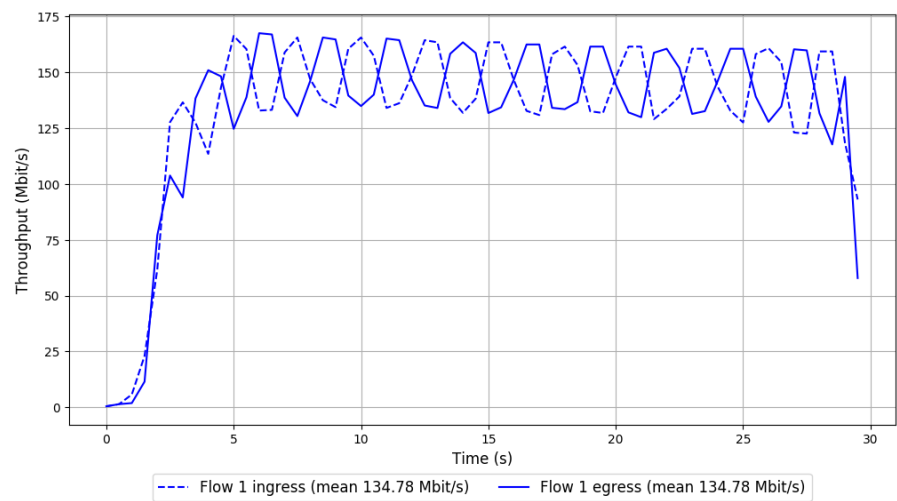


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-28 00:18:43
End at: 2018-02-28 00:19:13

# Below is generated by plot.py at 2018-02-28 06:23:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 134.78 Mbit/s
95th percentile per-packet one-way delay: 140.387 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 134.78 Mbit/s
95th percentile per-packet one-way delay: 140.387 ms
Loss rate: 0.93%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-28 00:34:57

End at: 2018-02-28 00:35:27

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.87 Mbit/s

95th percentile per-packet one-way delay: 136.155 ms

Loss rate: 0.95%

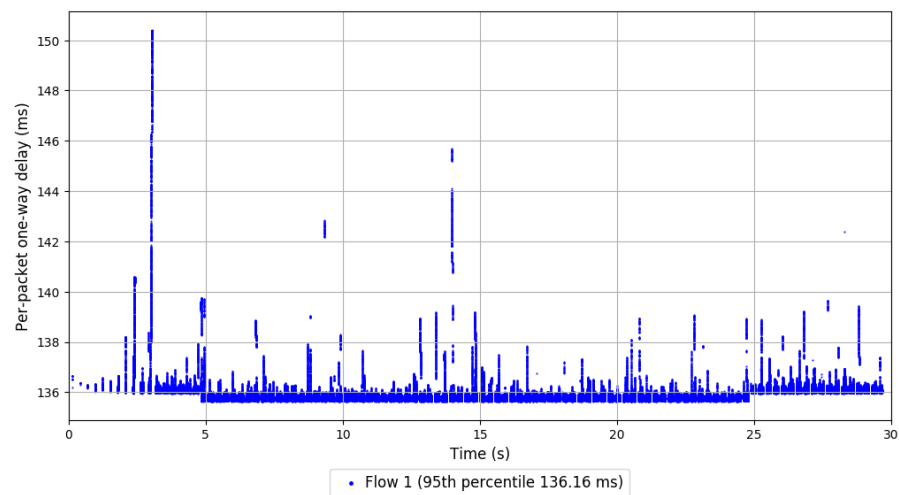
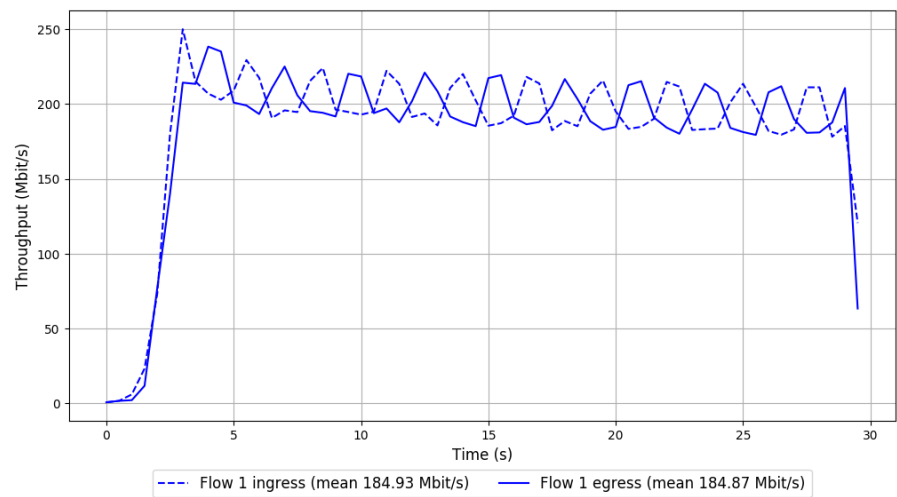
-- Flow 1:

Average throughput: 184.87 Mbit/s

95th percentile per-packet one-way delay: 136.155 ms

Loss rate: 0.95%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-28 00:51:02

End at: 2018-02-28 00:51:32

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.73 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 0.99%

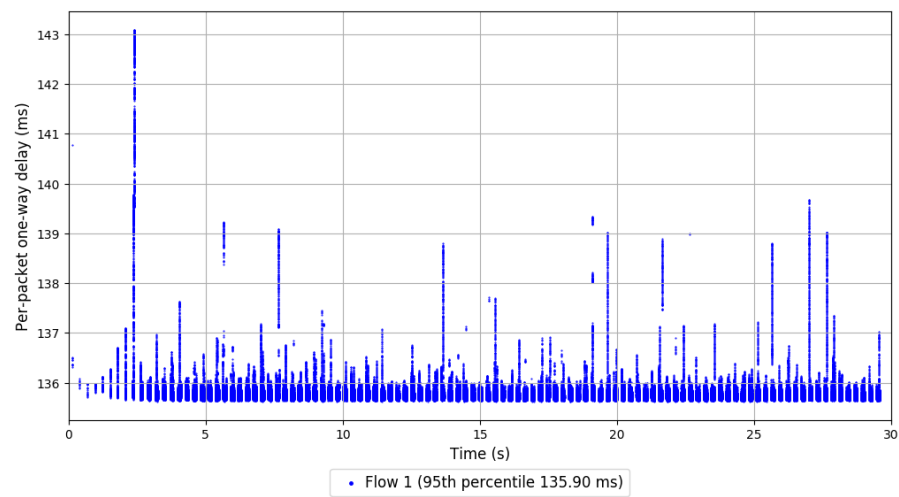
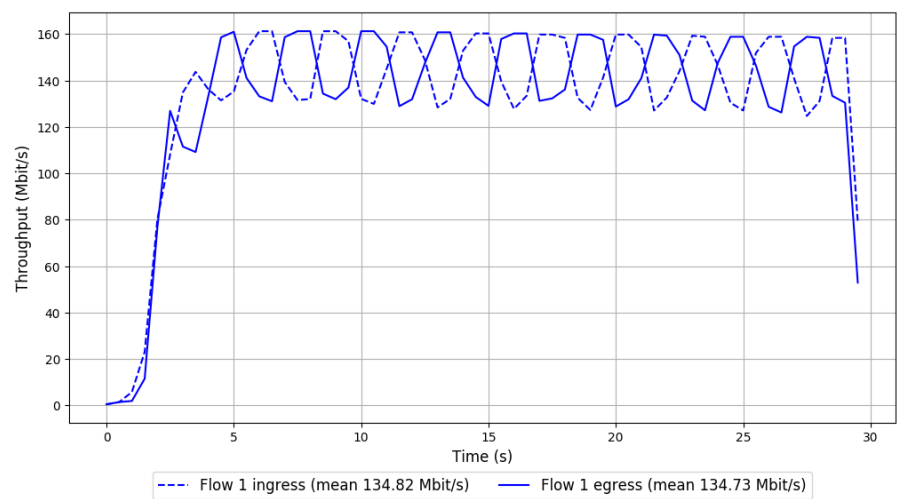
-- Flow 1:

Average throughput: 134.73 Mbit/s

95th percentile per-packet one-way delay: 135.904 ms

Loss rate: 0.99%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-28 01:06:45

End at: 2018-02-28 01:07:15

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.45 Mbit/s

95th percentile per-packet one-way delay: 163.062 ms

Loss rate: 1.05%

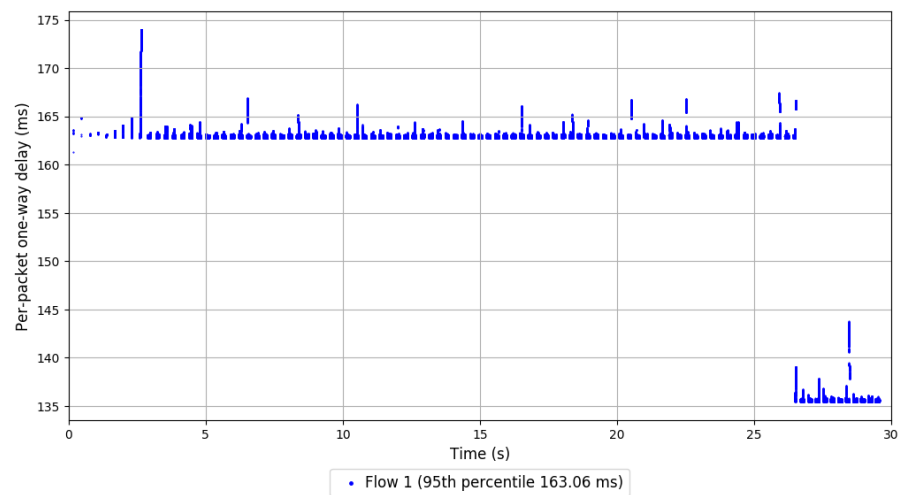
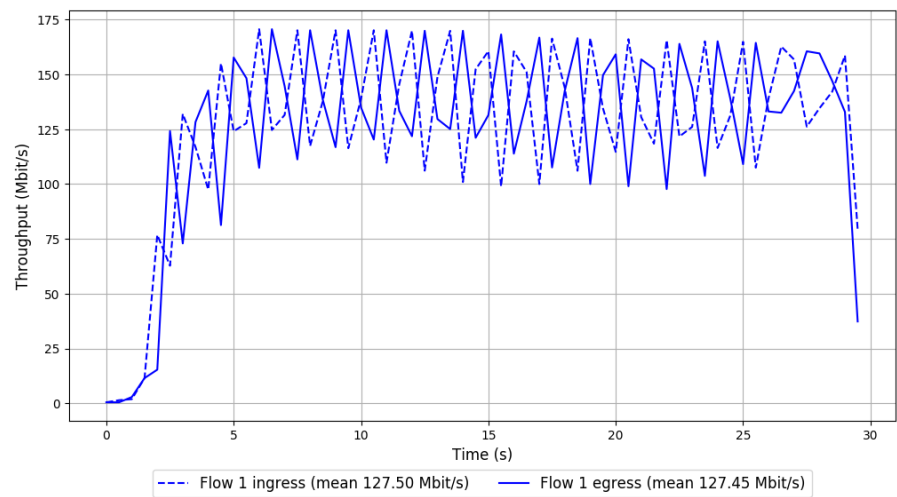
-- Flow 1:

Average throughput: 127.45 Mbit/s

95th percentile per-packet one-way delay: 163.062 ms

Loss rate: 1.05%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-28 01:22:36

End at: 2018-02-28 01:23:06

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.09 Mbit/s

95th percentile per-packet one-way delay: 163.052 ms

Loss rate: 0.79%

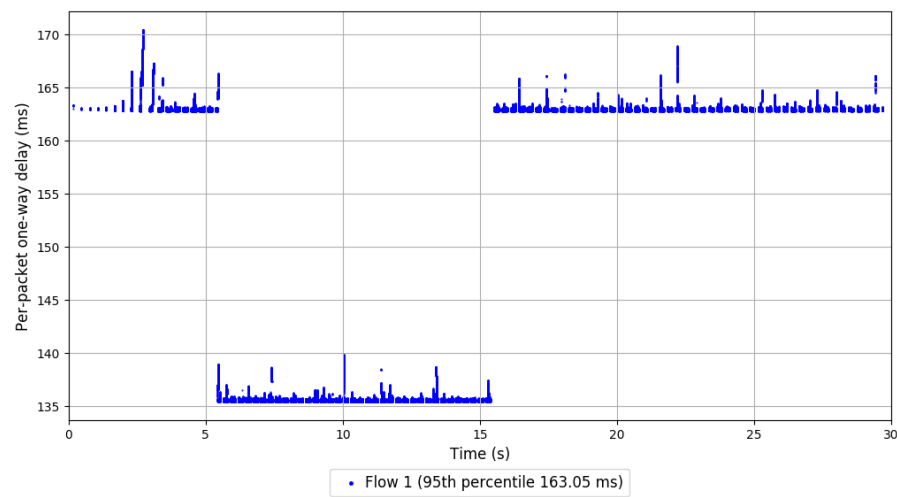
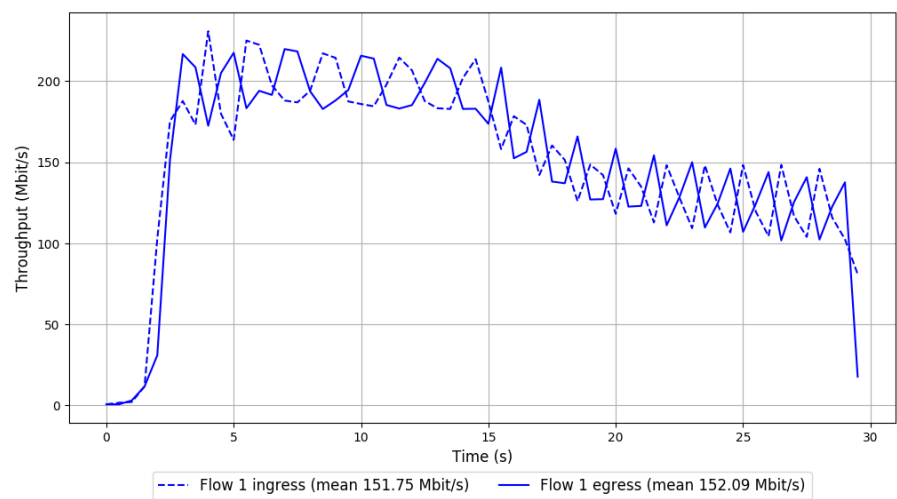
-- Flow 1:

Average throughput: 152.09 Mbit/s

95th percentile per-packet one-way delay: 163.052 ms

Loss rate: 0.79%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-28 01:38:13

End at: 2018-02-28 01:38:43

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.12 Mbit/s

95th percentile per-packet one-way delay: 140.480 ms

Loss rate: 0.93%

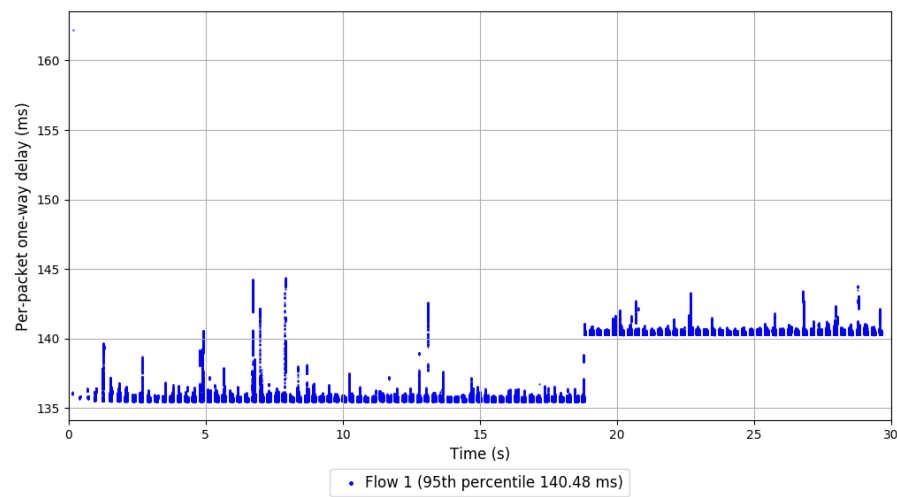
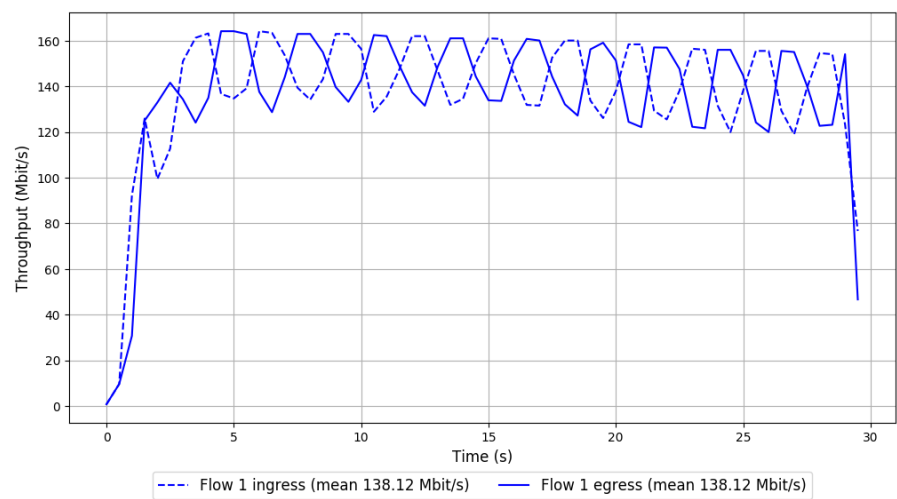
-- Flow 1:

Average throughput: 138.12 Mbit/s

95th percentile per-packet one-way delay: 140.480 ms

Loss rate: 0.93%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-28 01:54:01

End at: 2018-02-28 01:54:31

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.02 Mbit/s

95th percentile per-packet one-way delay: 163.396 ms

Loss rate: 0.94%

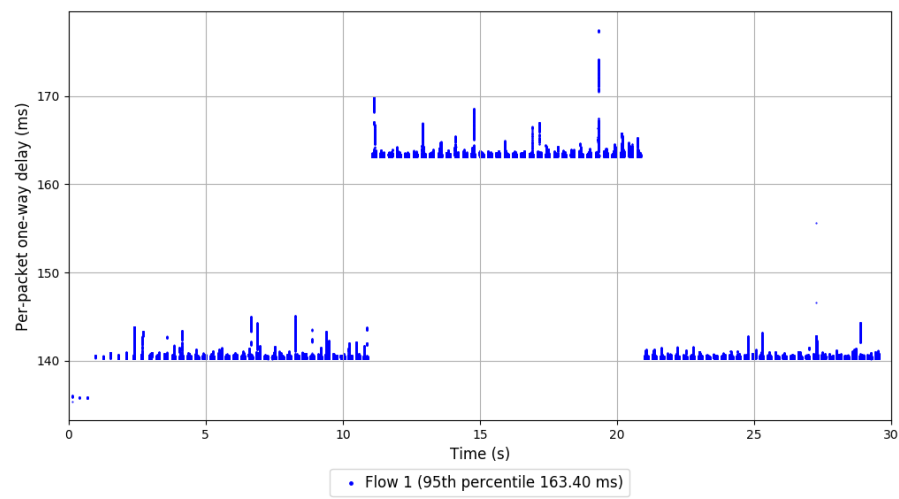
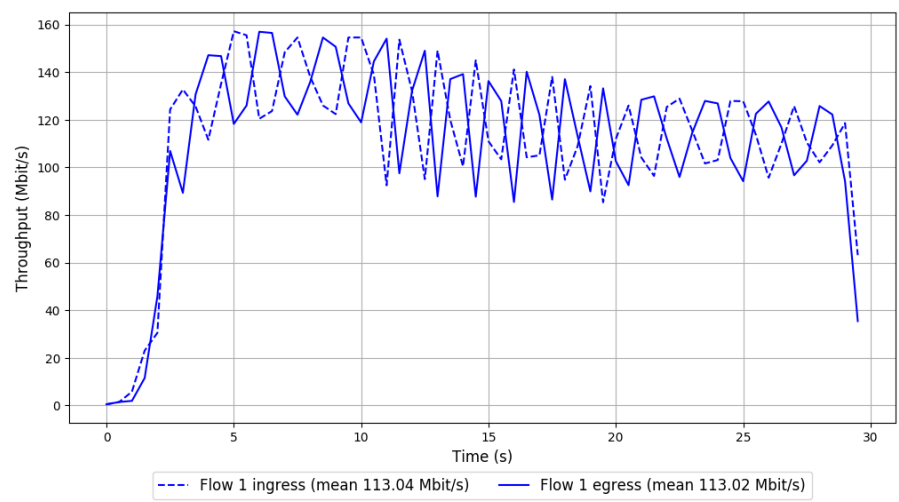
-- Flow 1:

Average throughput: 113.02 Mbit/s

95th percentile per-packet one-way delay: 163.396 ms

Loss rate: 0.94%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-28 02:09:43

End at: 2018-02-28 02:10:13

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.91 Mbit/s

95th percentile per-packet one-way delay: 162.036 ms

Loss rate: 0.88%

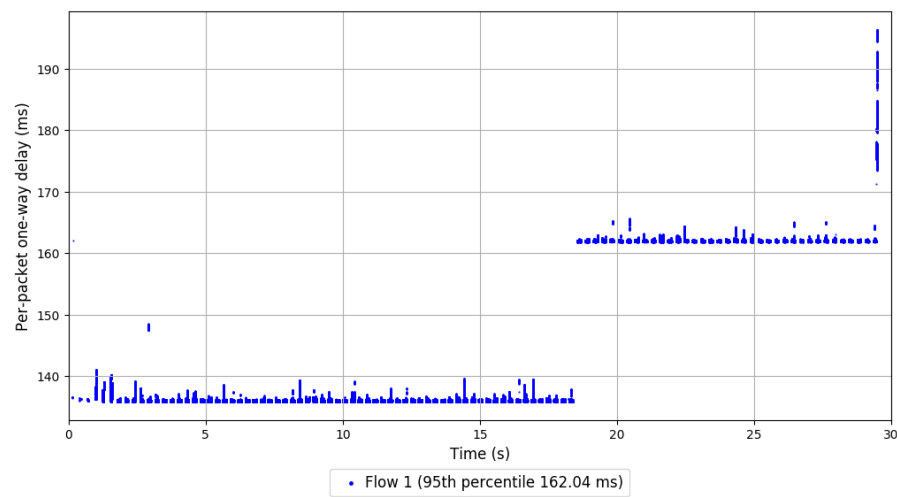
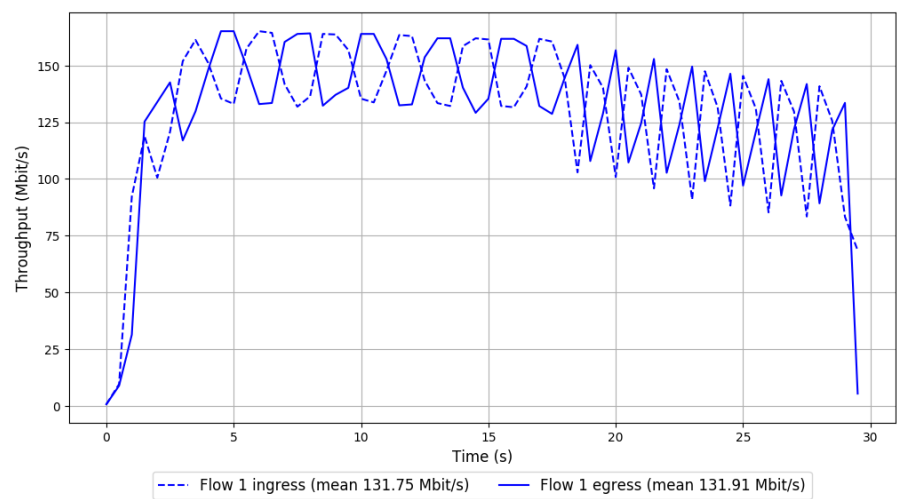
-- Flow 1:

Average throughput: 131.91 Mbit/s

95th percentile per-packet one-way delay: 162.036 ms

Loss rate: 0.88%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-28 02:26:08

End at: 2018-02-28 02:26:38

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.60 Mbit/s

95th percentile per-packet one-way delay: 136.352 ms

Loss rate: 0.90%

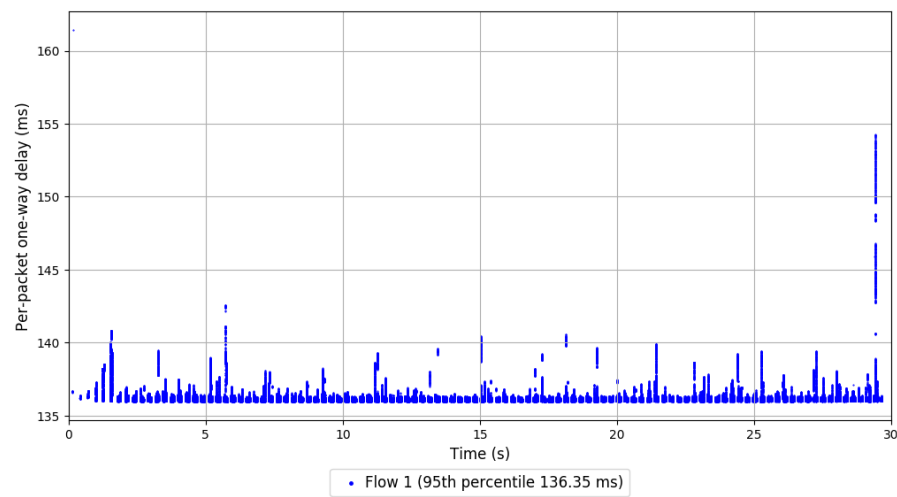
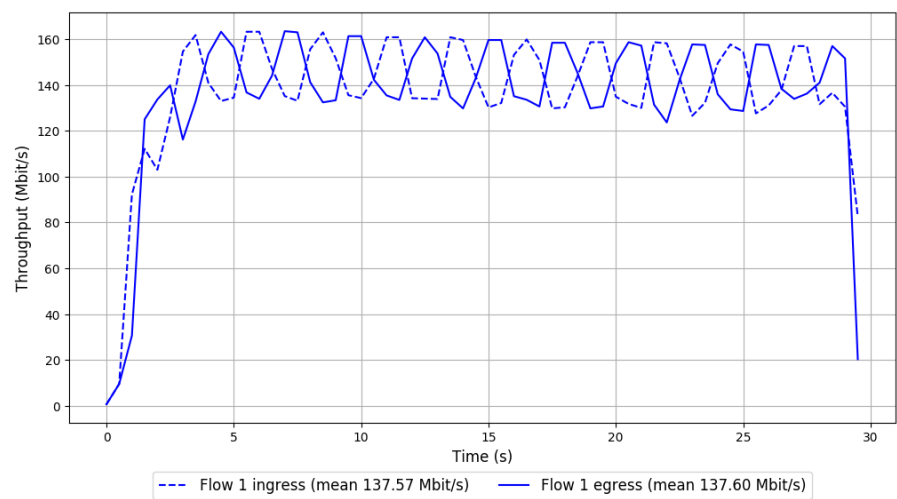
-- Flow 1:

Average throughput: 137.60 Mbit/s

95th percentile per-packet one-way delay: 136.352 ms

Loss rate: 0.90%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-28 00:06:24

End at: 2018-02-28 00:06:54

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.64 Mbit/s

95th percentile per-packet one-way delay: 164.556 ms

Loss rate: 1.70%

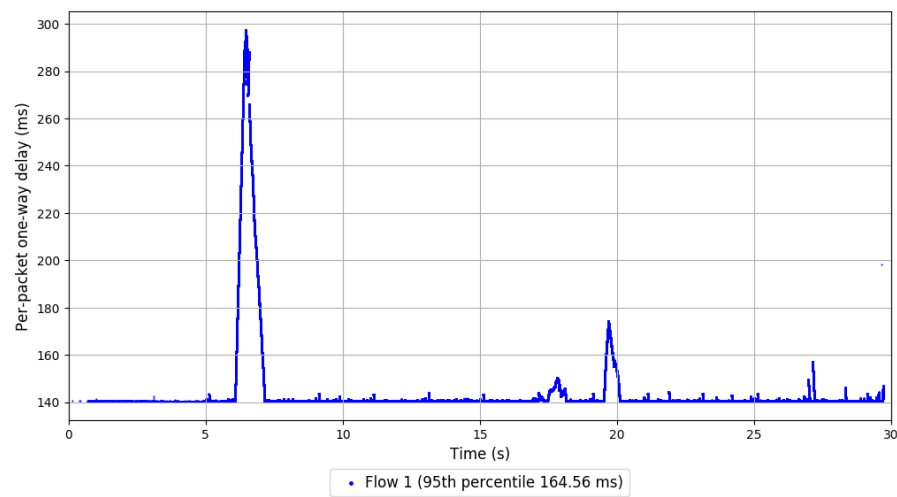
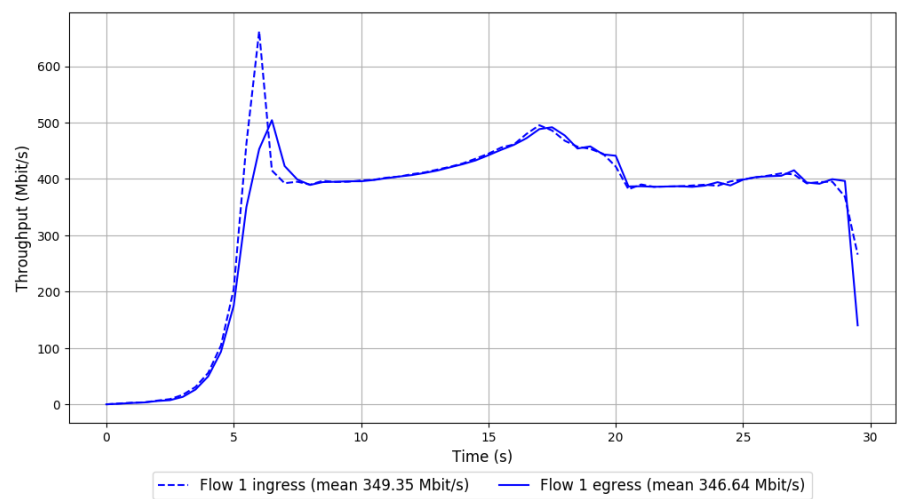
-- Flow 1:

Average throughput: 346.64 Mbit/s

95th percentile per-packet one-way delay: 164.556 ms

Loss rate: 1.70%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-28 00:22:46

End at: 2018-02-28 00:23:16

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.22 Mbit/s

95th percentile per-packet one-way delay: 144.828 ms

Loss rate: 0.63%

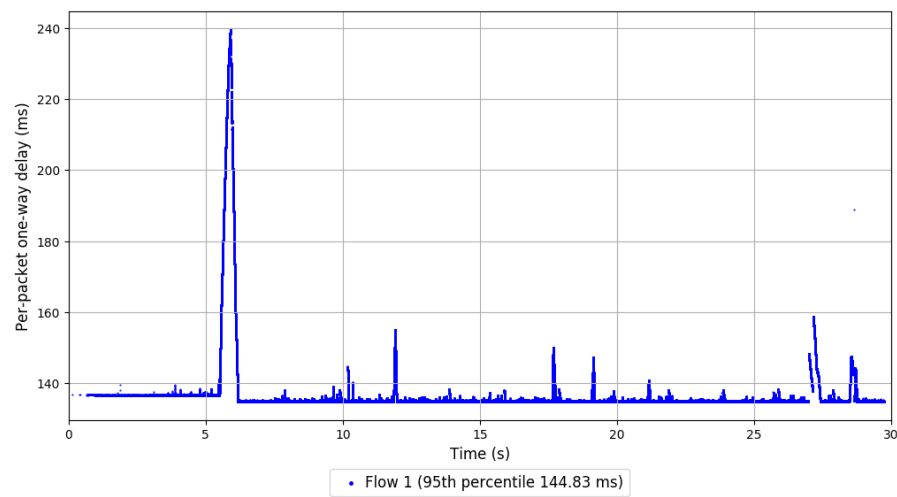
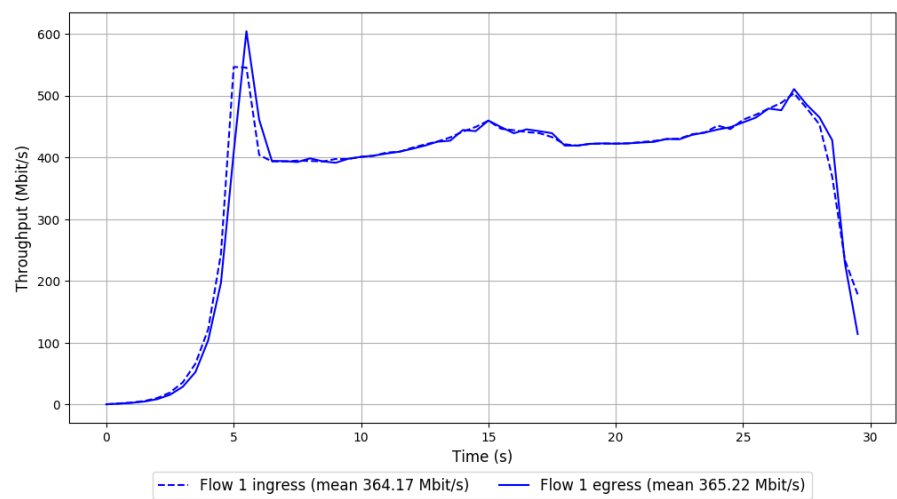
-- Flow 1:

Average throughput: 365.22 Mbit/s

95th percentile per-packet one-way delay: 144.828 ms

Loss rate: 0.63%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-28 00:39:03

End at: 2018-02-28 00:39:33

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.35 Mbit/s

95th percentile per-packet one-way delay: 149.196 ms

Loss rate: 1.57%

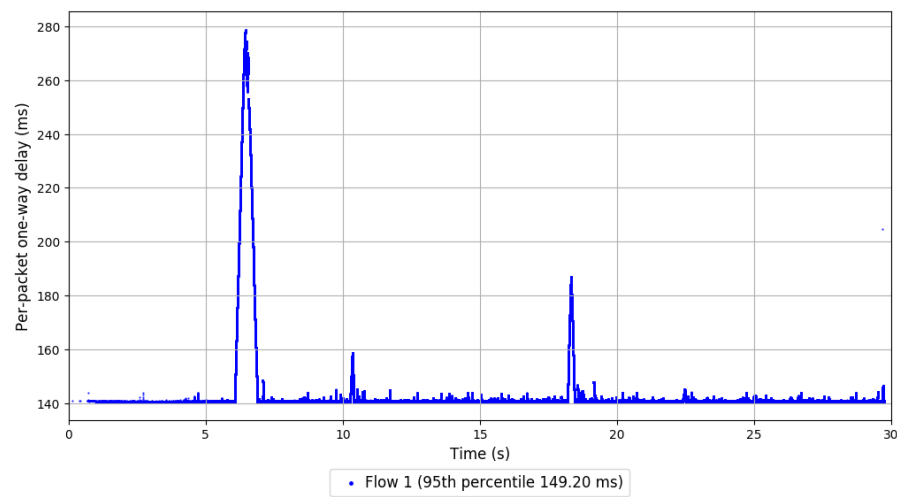
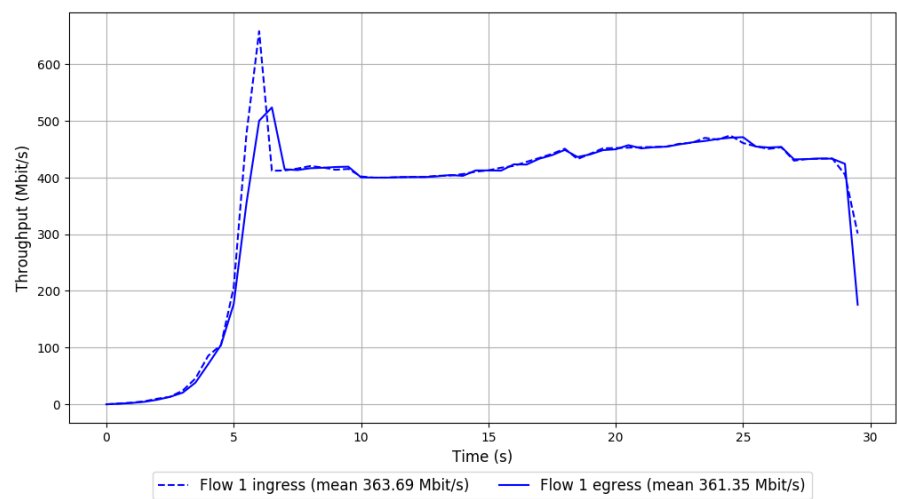
-- Flow 1:

Average throughput: 361.35 Mbit/s

95th percentile per-packet one-way delay: 149.196 ms

Loss rate: 1.57%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-28 00:55:06

End at: 2018-02-28 00:55:36

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.78 Mbit/s

95th percentile per-packet one-way delay: 152.756 ms

Loss rate: 1.54%

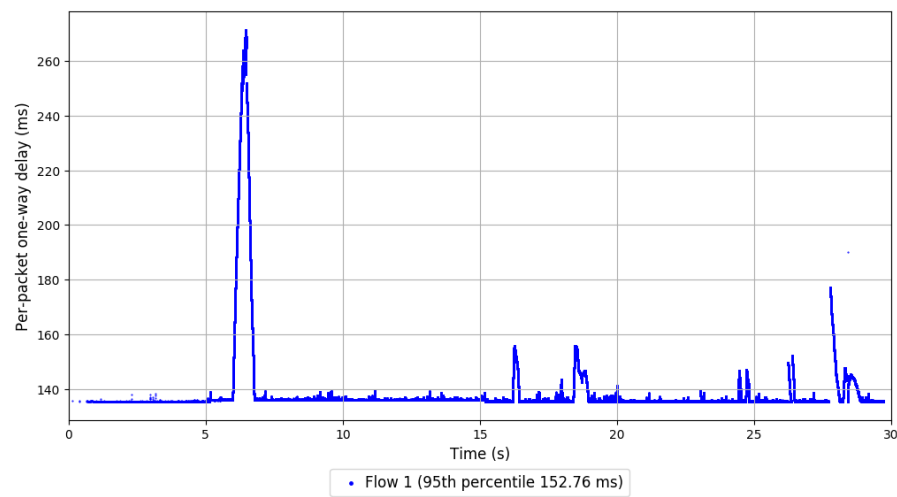
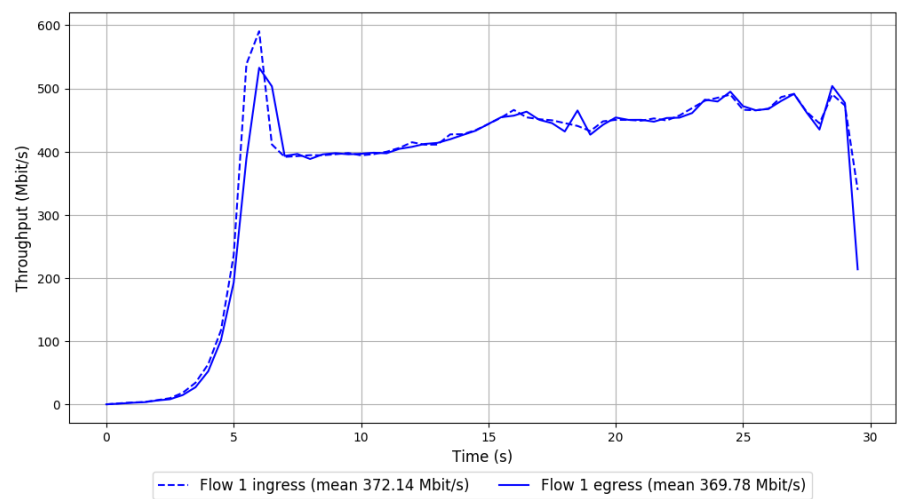
-- Flow 1:

Average throughput: 369.78 Mbit/s

95th percentile per-packet one-way delay: 152.756 ms

Loss rate: 1.54%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-28 01:10:27

End at: 2018-02-28 01:10:57

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.37 Mbit/s

95th percentile per-packet one-way delay: 166.213 ms

Loss rate: 1.66%

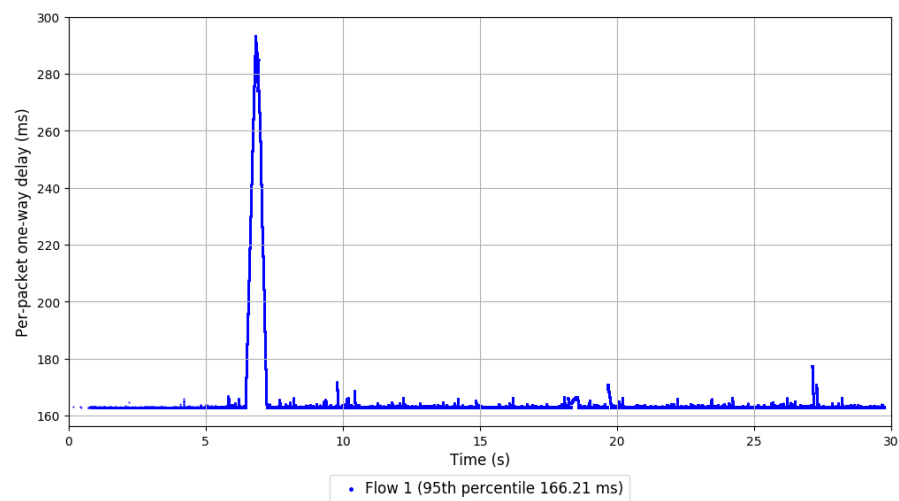
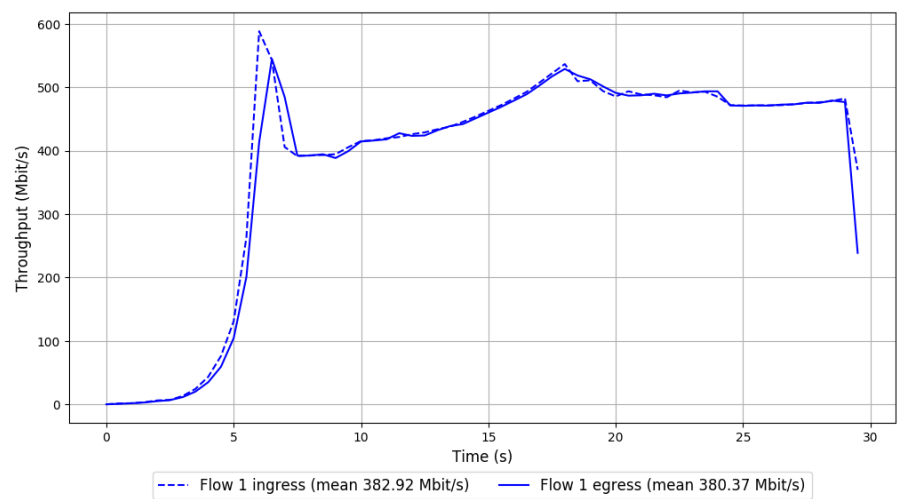
-- Flow 1:

Average throughput: 380.37 Mbit/s

95th percentile per-packet one-way delay: 166.213 ms

Loss rate: 1.66%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-28 01:26:23

End at: 2018-02-28 01:26:53

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.93 Mbit/s

95th percentile per-packet one-way delay: 139.867 ms

Loss rate: 1.06%

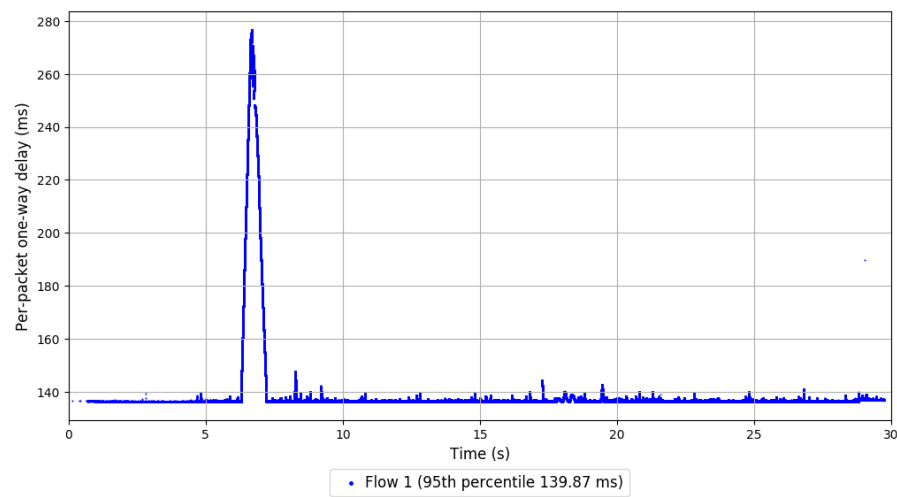
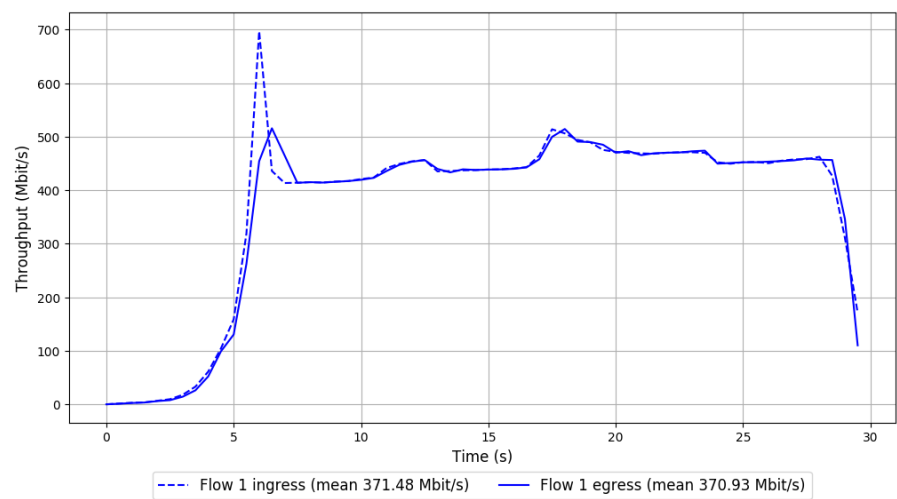
-- Flow 1:

Average throughput: 370.93 Mbit/s

95th percentile per-packet one-way delay: 139.867 ms

Loss rate: 1.06%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-28 01:42:22

End at: 2018-02-28 01:42:52

Below is generated by plot.py at 2018-02-28 06:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.25 Mbit/s

95th percentile per-packet one-way delay: 226.040 ms

Loss rate: 1.53%

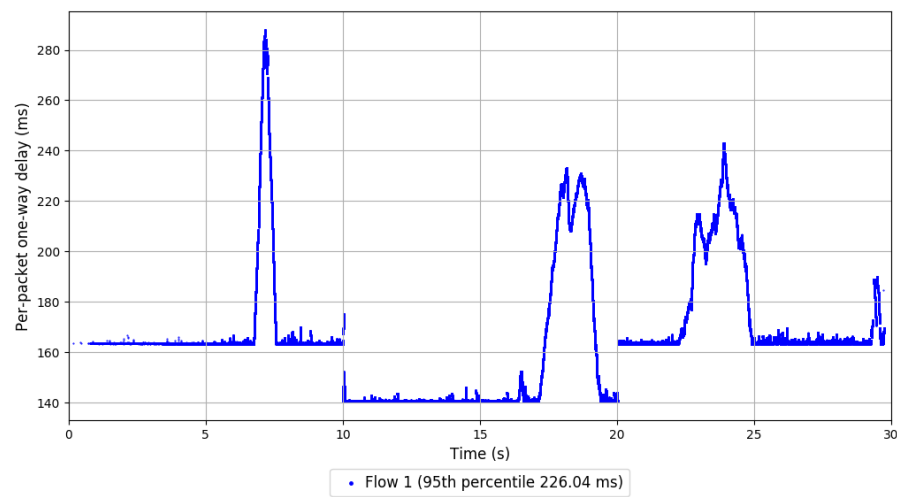
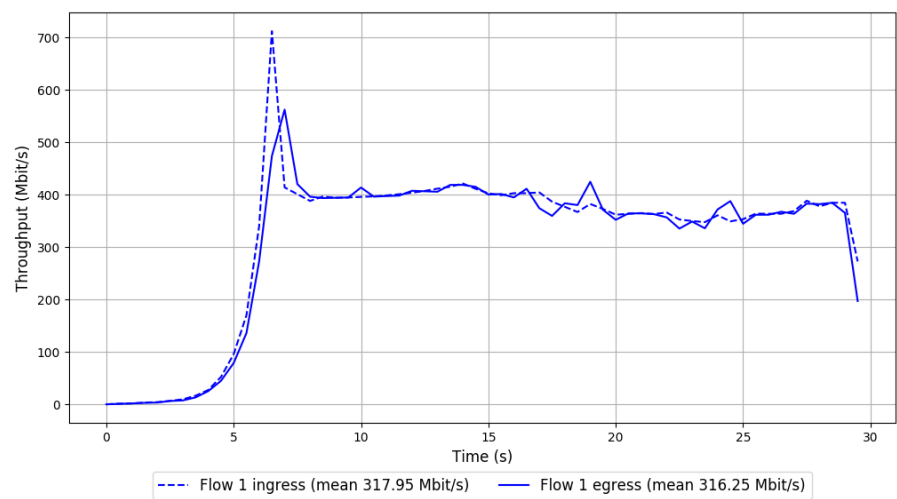
-- Flow 1:

Average throughput: 316.25 Mbit/s

95th percentile per-packet one-way delay: 226.040 ms

Loss rate: 1.53%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-28 01:58:00

End at: 2018-02-28 01:58:30

Below is generated by plot.py at 2018-02-28 06:24:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.25 Mbit/s

95th percentile per-packet one-way delay: 141.494 ms

Loss rate: 1.23%

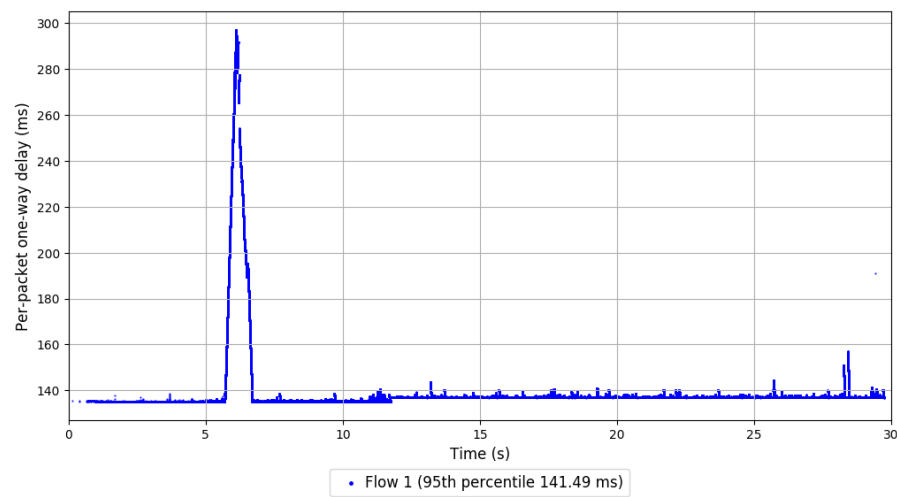
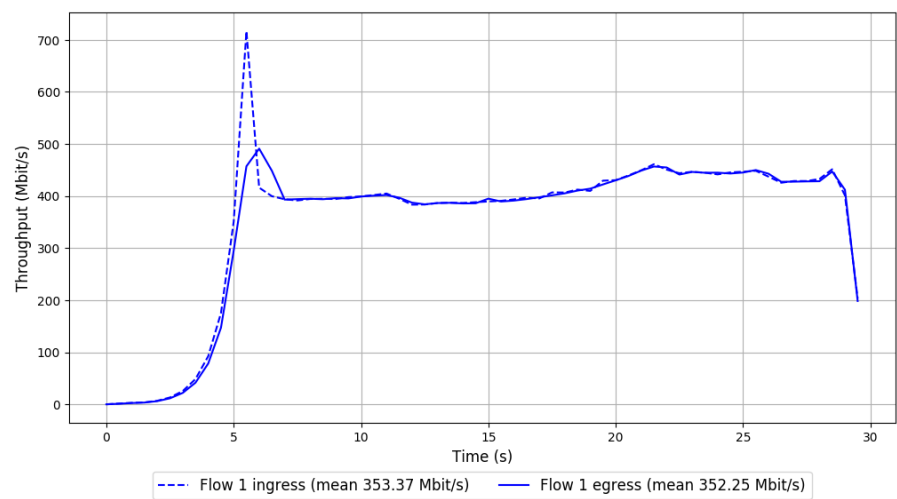
-- Flow 1:

Average throughput: 352.25 Mbit/s

95th percentile per-packet one-way delay: 141.494 ms

Loss rate: 1.23%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-28 02:13:50

End at: 2018-02-28 02:14:20

Below is generated by plot.py at 2018-02-28 06:24:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.87 Mbit/s

95th percentile per-packet one-way delay: 142.215 ms

Loss rate: 1.42%

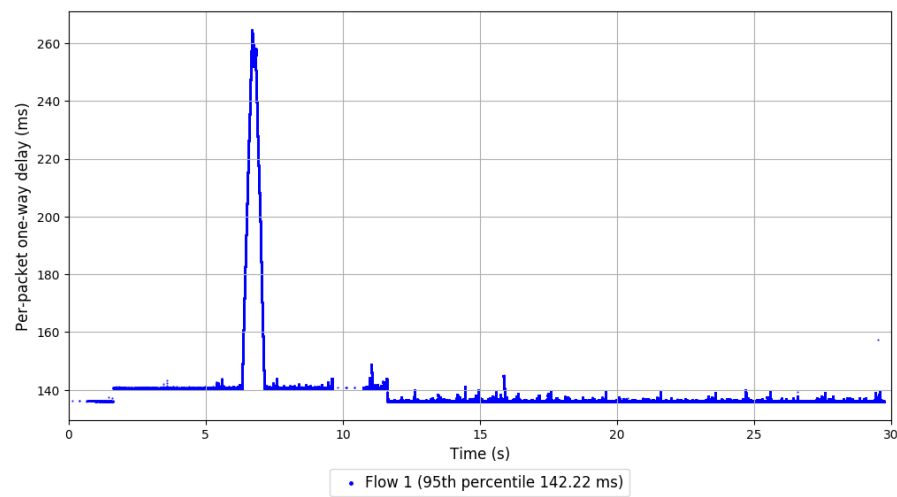
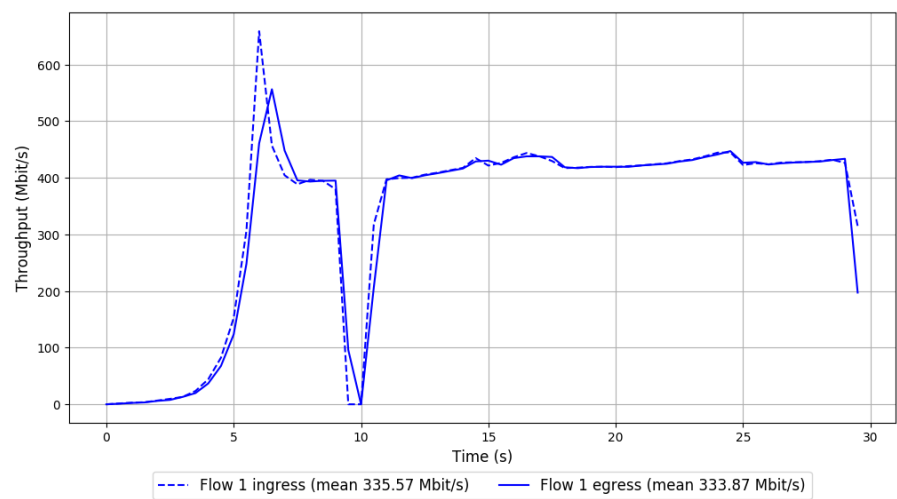
-- Flow 1:

Average throughput: 333.87 Mbit/s

95th percentile per-packet one-way delay: 142.215 ms

Loss rate: 1.42%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-28 02:30:10

End at: 2018-02-28 02:30:40

Below is generated by plot.py at 2018-02-28 06:24:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.46 Mbit/s

95th percentile per-packet one-way delay: 171.773 ms

Loss rate: 1.74%

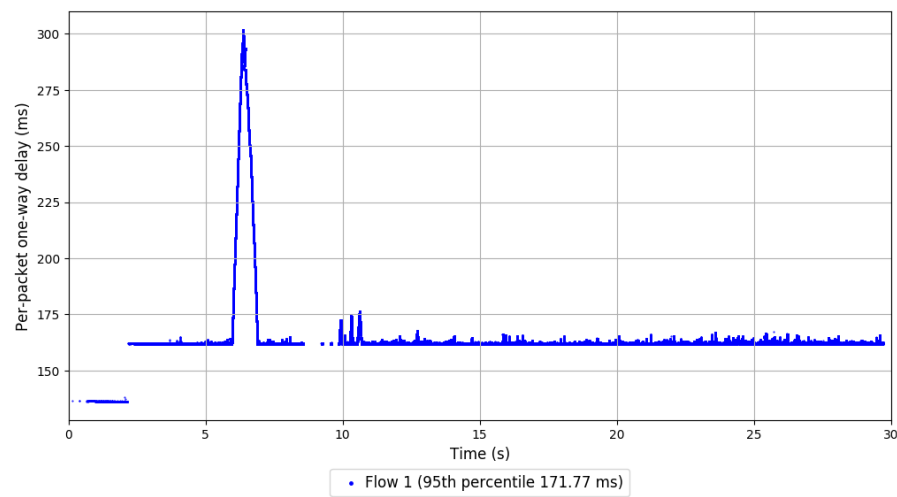
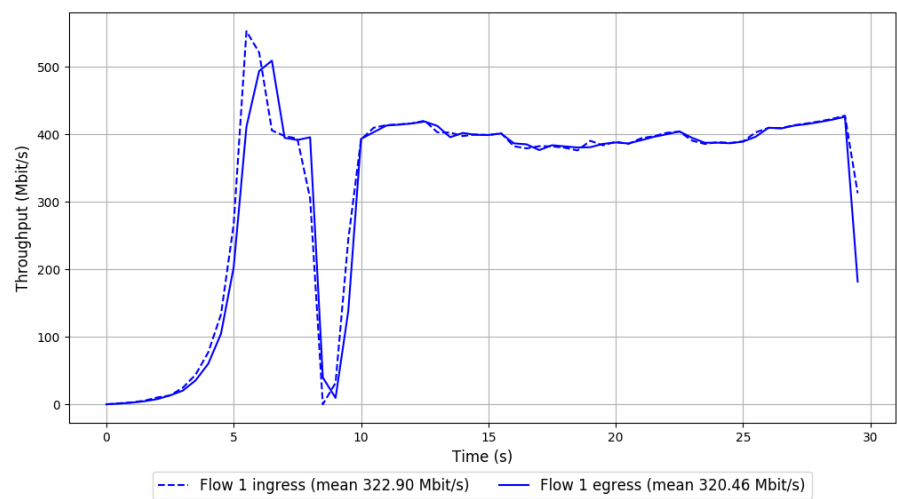
-- Flow 1:

Average throughput: 320.46 Mbit/s

95th percentile per-packet one-way delay: 171.773 ms

Loss rate: 1.74%

Run 10: Report of Vivace-latency — Data Link

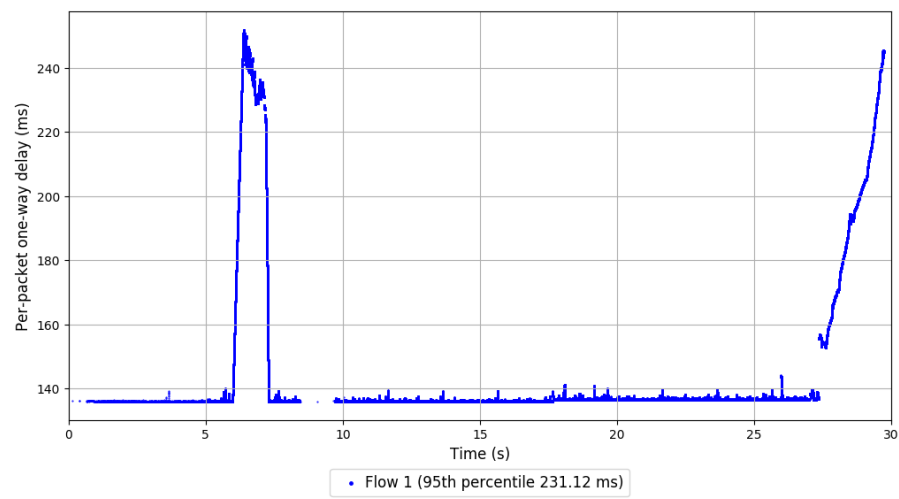
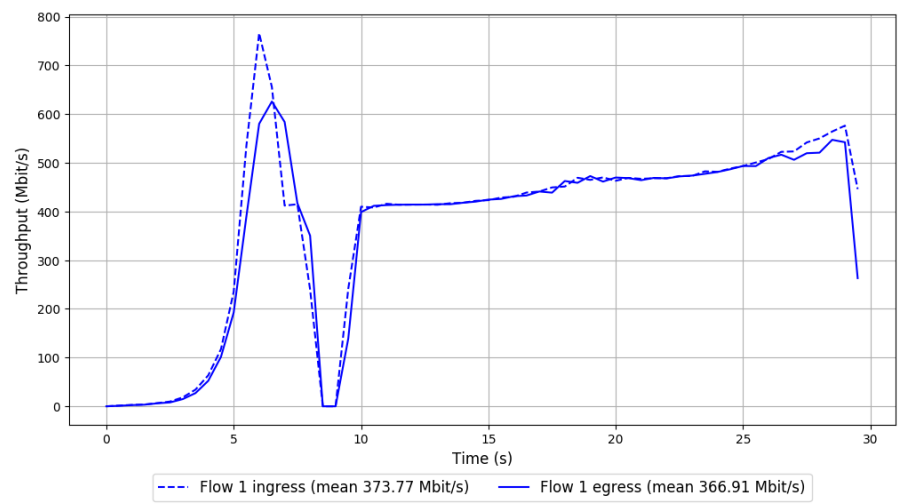


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-28 00:10:34
End at: 2018-02-28 00:11:04

# Below is generated by plot.py at 2018-02-28 06:25:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.91 Mbit/s
95th percentile per-packet one-way delay: 231.116 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 366.91 Mbit/s
95th percentile per-packet one-way delay: 231.116 ms
Loss rate: 2.73%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-28 00:26:57

End at: 2018-02-28 00:27:27

Below is generated by plot.py at 2018-02-28 06:25:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 302.37 Mbit/s

95th percentile per-packet one-way delay: 269.469 ms

Loss rate: 13.26%

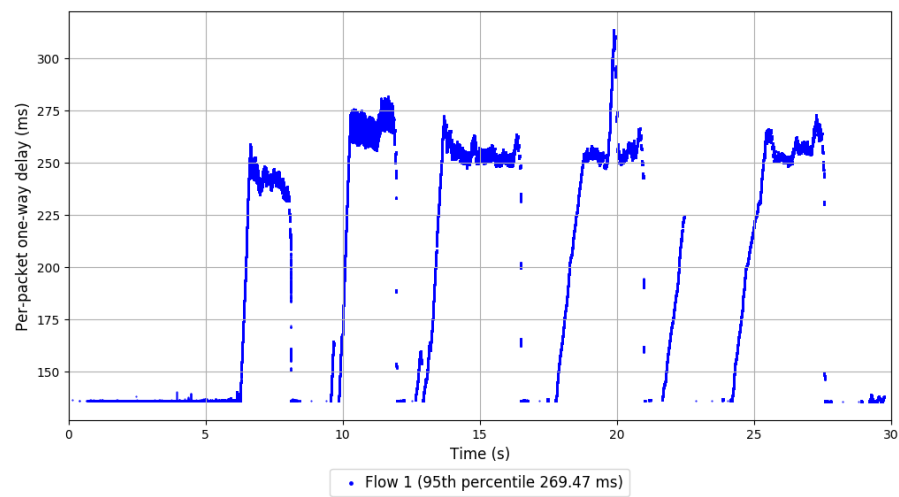
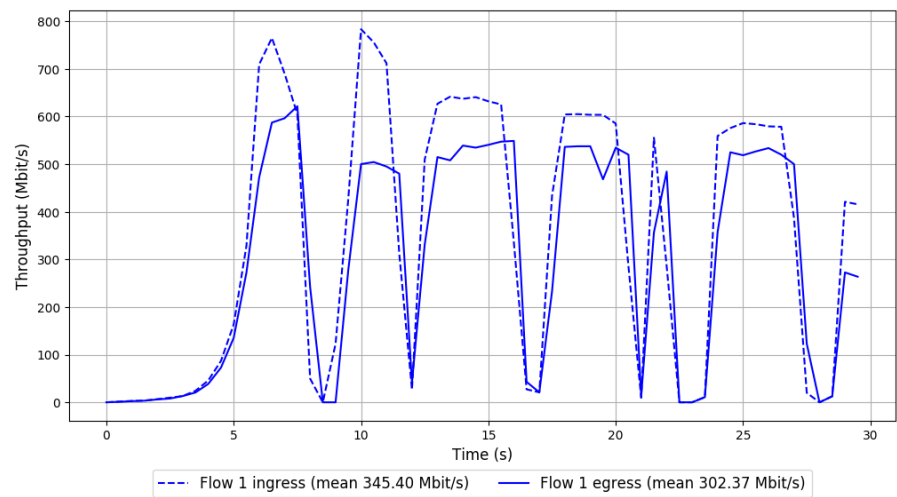
-- Flow 1:

Average throughput: 302.37 Mbit/s

95th percentile per-packet one-way delay: 269.469 ms

Loss rate: 13.26%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-28 00:43:14

End at: 2018-02-28 00:43:44

Below is generated by plot.py at 2018-02-28 06:28:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.12 Mbit/s

95th percentile per-packet one-way delay: 265.803 ms

Loss rate: 16.06%

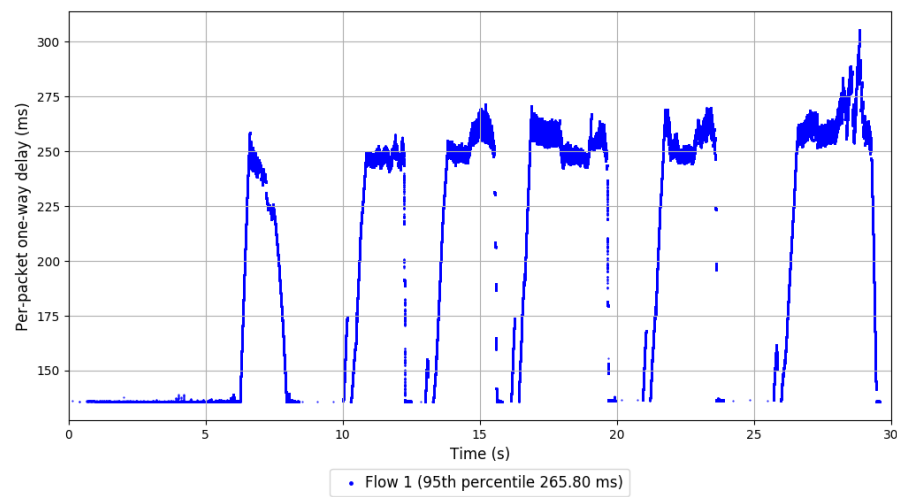
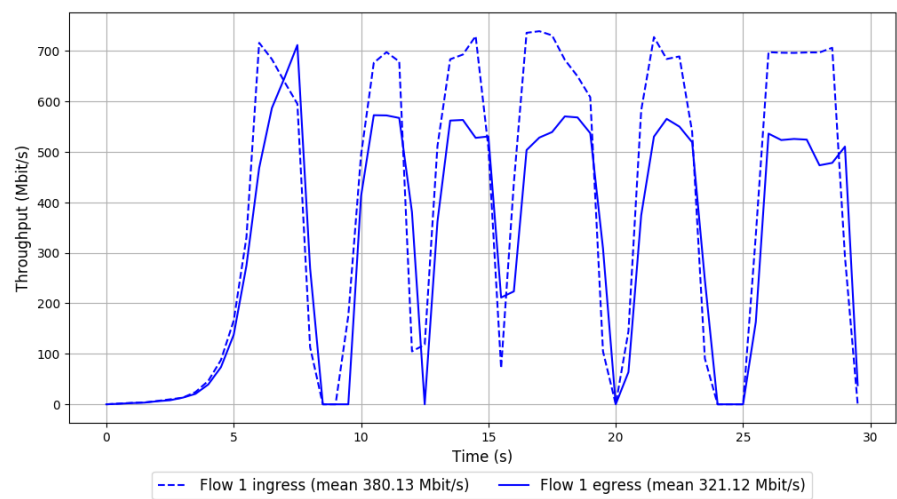
-- Flow 1:

Average throughput: 321.12 Mbit/s

95th percentile per-packet one-way delay: 265.803 ms

Loss rate: 16.06%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-28 00:59:18

End at: 2018-02-28 00:59:48

Below is generated by plot.py at 2018-02-28 06:28:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.26 Mbit/s

95th percentile per-packet one-way delay: 294.705 ms

Loss rate: 8.08%

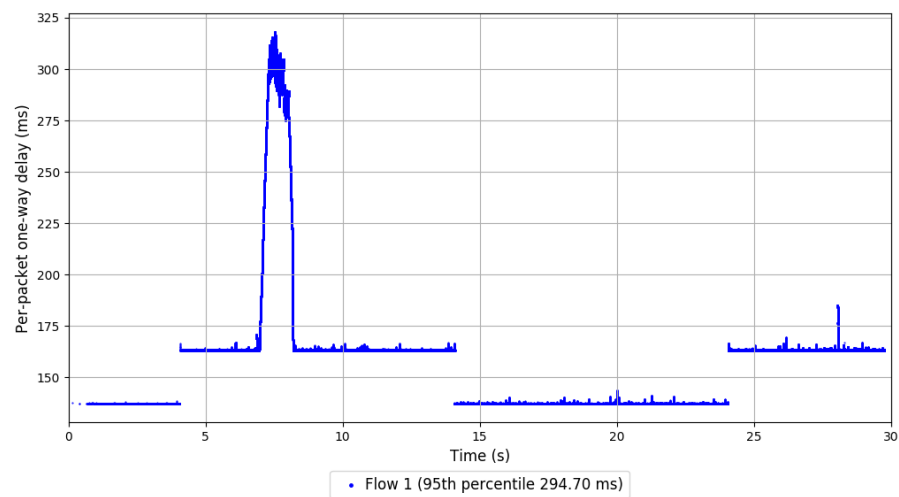
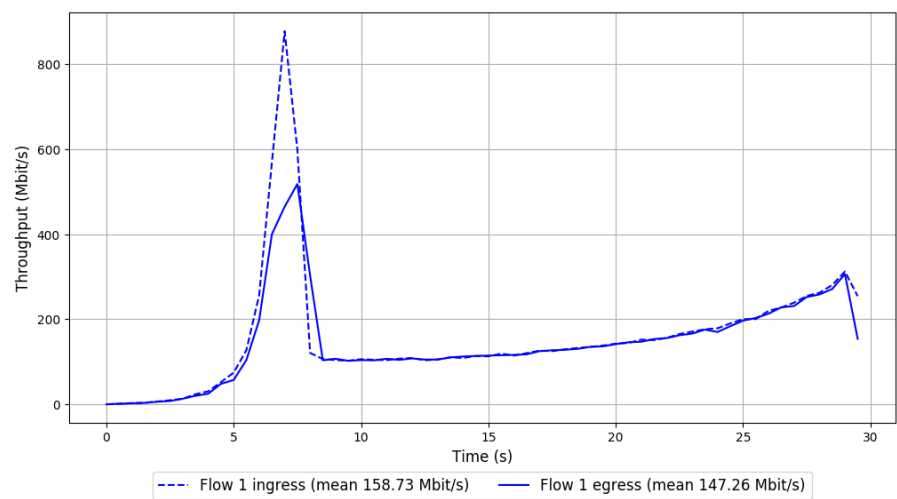
-- Flow 1:

Average throughput: 147.26 Mbit/s

95th percentile per-packet one-way delay: 294.705 ms

Loss rate: 8.08%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-28 01:14:42

End at: 2018-02-28 01:15:12

Below is generated by plot.py at 2018-02-28 06:28:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.56 Mbit/s

95th percentile per-packet one-way delay: 294.057 ms

Loss rate: 4.81%

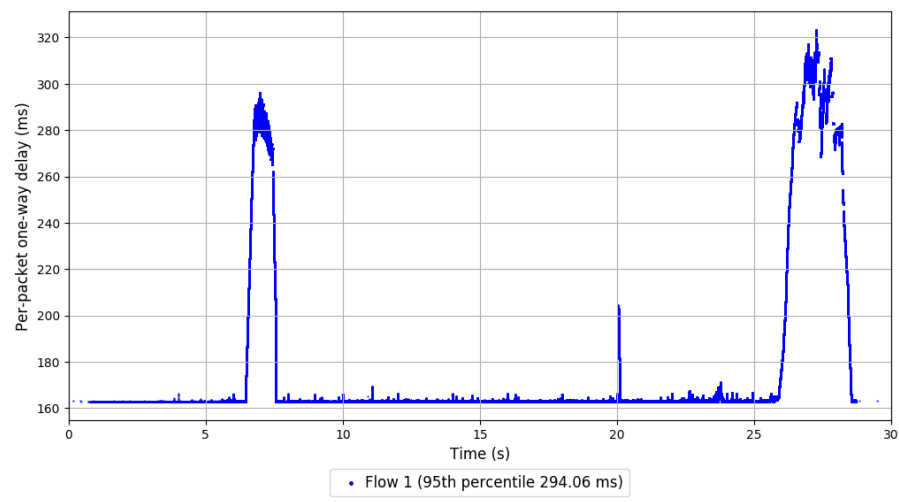
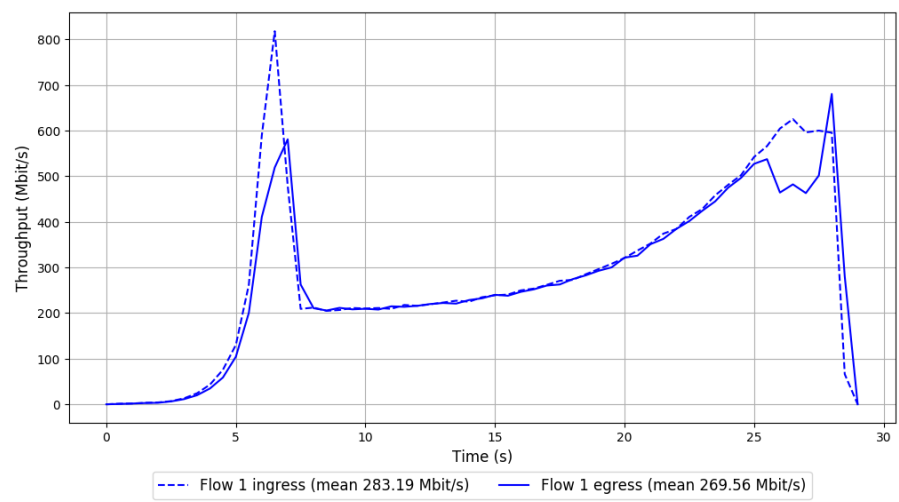
-- Flow 1:

Average throughput: 269.56 Mbit/s

95th percentile per-packet one-way delay: 294.057 ms

Loss rate: 4.81%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-28 01:30:37

End at: 2018-02-28 01:31:07

Below is generated by plot.py at 2018-02-28 06:28:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.47 Mbit/s

95th percentile per-packet one-way delay: 255.368 ms

Loss rate: 5.19%

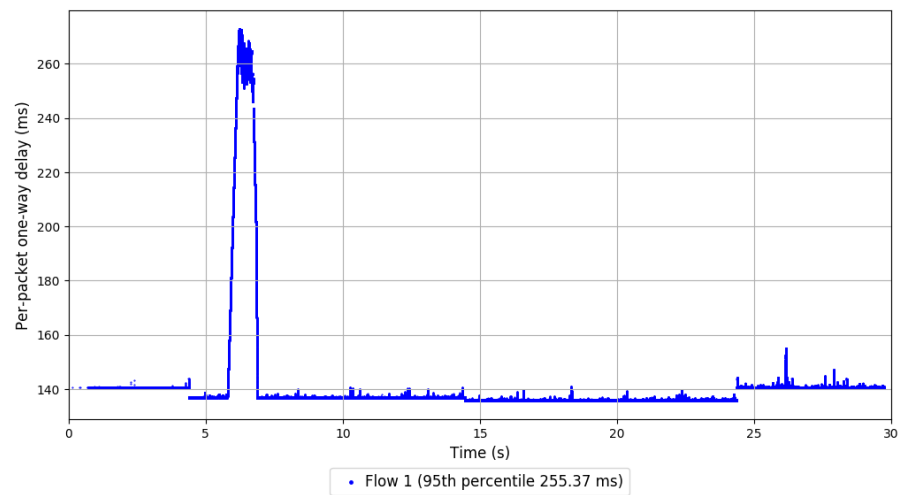
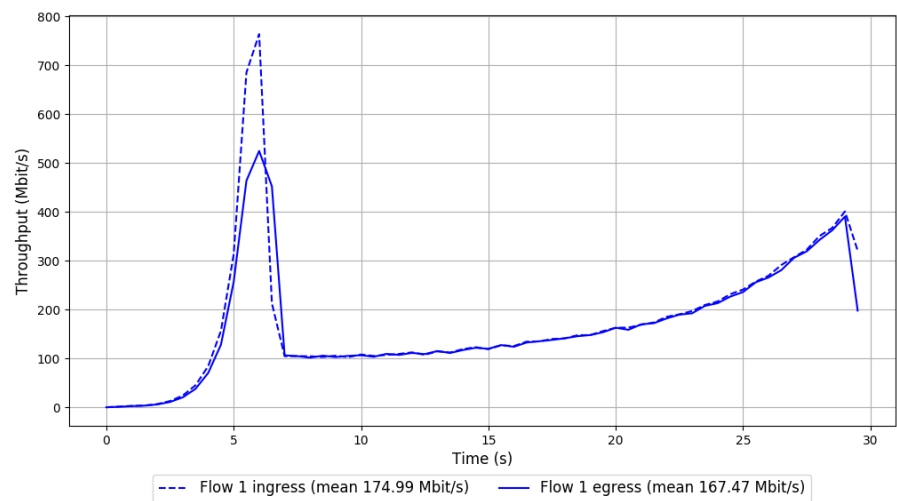
-- Flow 1:

Average throughput: 167.47 Mbit/s

95th percentile per-packet one-way delay: 255.368 ms

Loss rate: 5.19%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-28 01:46:34

End at: 2018-02-28 01:47:04

Below is generated by plot.py at 2018-02-28 06:28:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.67 Mbit/s

95th percentile per-packet one-way delay: 281.262 ms

Loss rate: 5.86%

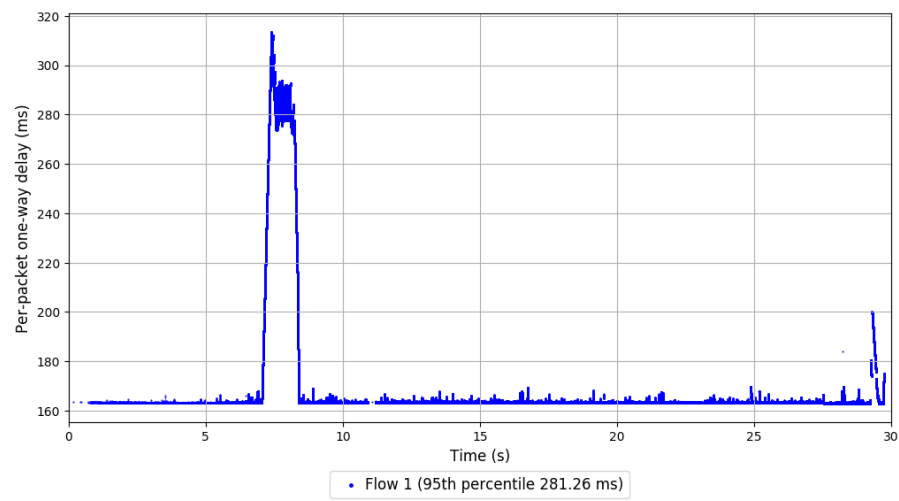
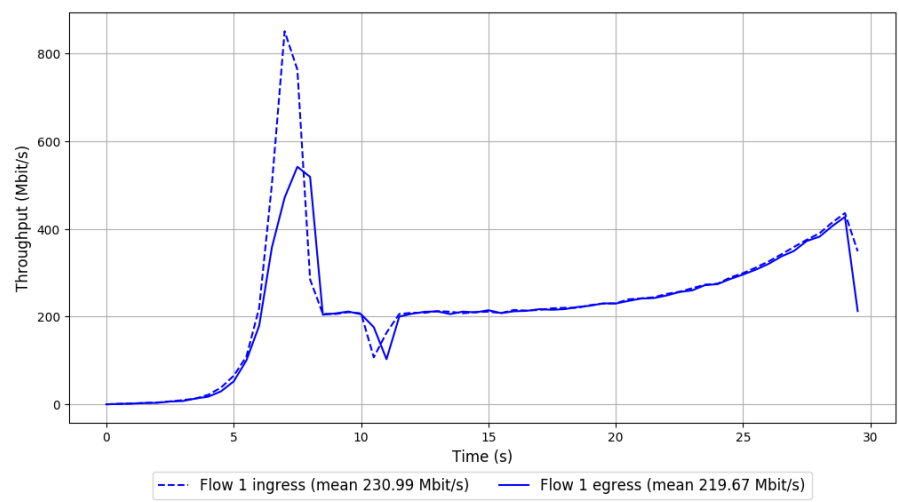
-- Flow 1:

Average throughput: 219.67 Mbit/s

95th percentile per-packet one-way delay: 281.262 ms

Loss rate: 5.86%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-28 02:02:11

End at: 2018-02-28 02:02:41

Below is generated by plot.py at 2018-02-28 06:28:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.80 Mbit/s

95th percentile per-packet one-way delay: 296.548 ms

Loss rate: 7.16%

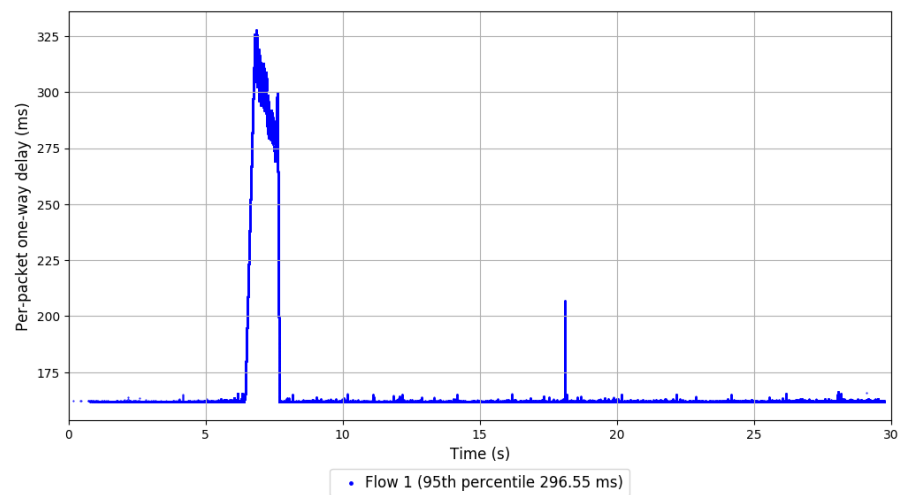
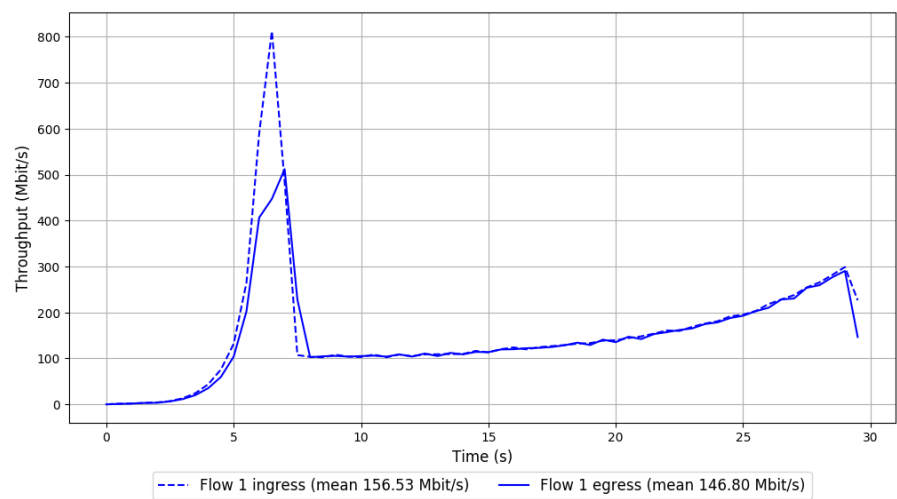
-- Flow 1:

Average throughput: 146.80 Mbit/s

95th percentile per-packet one-way delay: 296.548 ms

Loss rate: 7.16%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-28 02:18:00

End at: 2018-02-28 02:18:30

Below is generated by plot.py at 2018-02-28 06:31:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.07 Mbit/s

95th percentile per-packet one-way delay: 259.405 ms

Loss rate: 5.01%

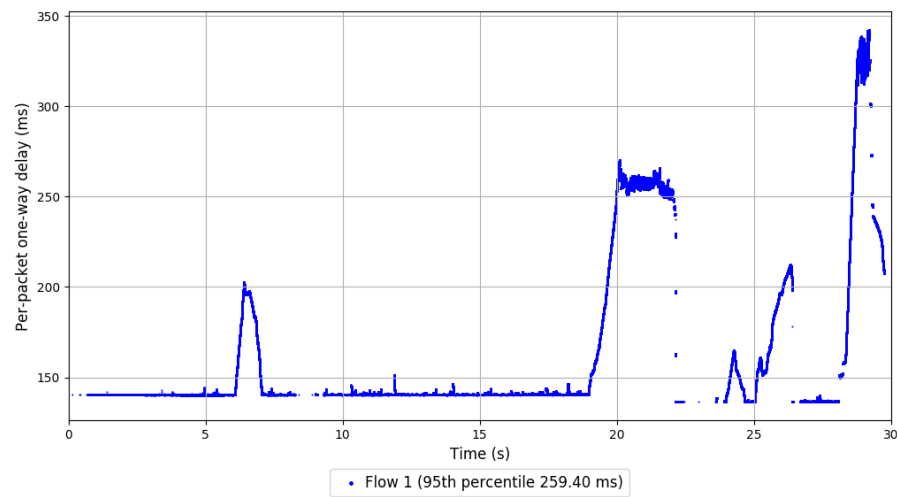
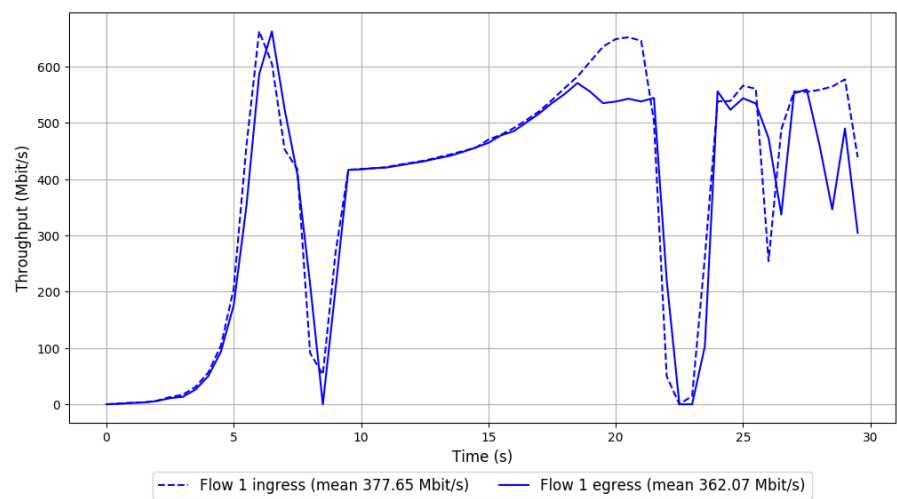
-- Flow 1:

Average throughput: 362.07 Mbit/s

95th percentile per-packet one-way delay: 259.405 ms

Loss rate: 5.01%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-28 02:34:19

End at: 2018-02-28 02:34:49

Below is generated by plot.py at 2018-02-28 06:31:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.98 Mbit/s

95th percentile per-packet one-way delay: 261.238 ms

Loss rate: 4.94%

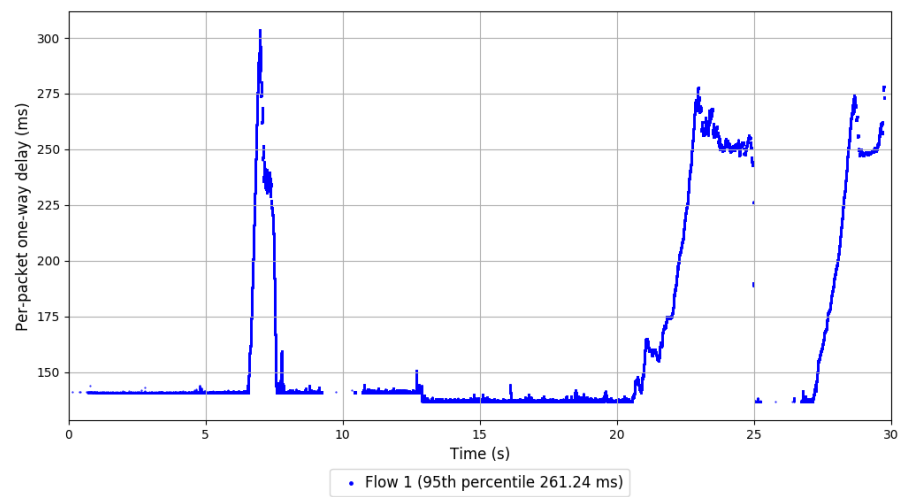
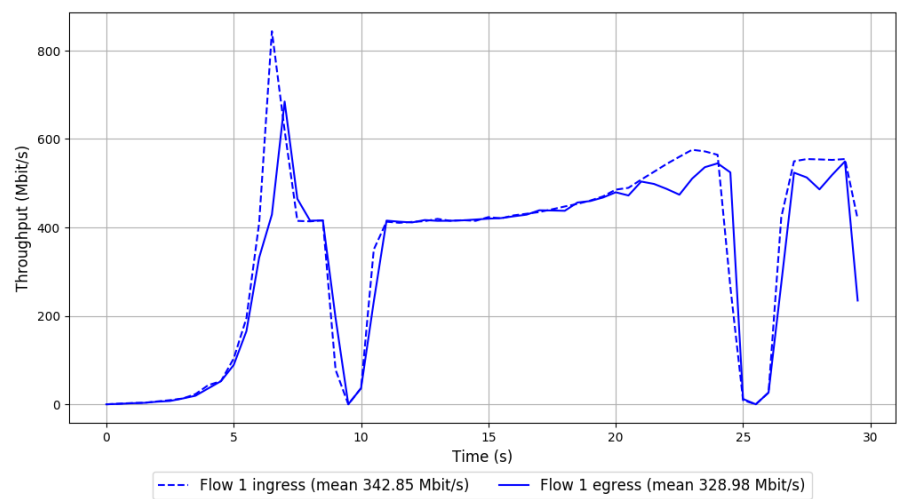
-- Flow 1:

Average throughput: 328.98 Mbit/s

95th percentile per-packet one-way delay: 261.238 ms

Loss rate: 4.94%

Run 10: Report of Vivace-loss — Data Link

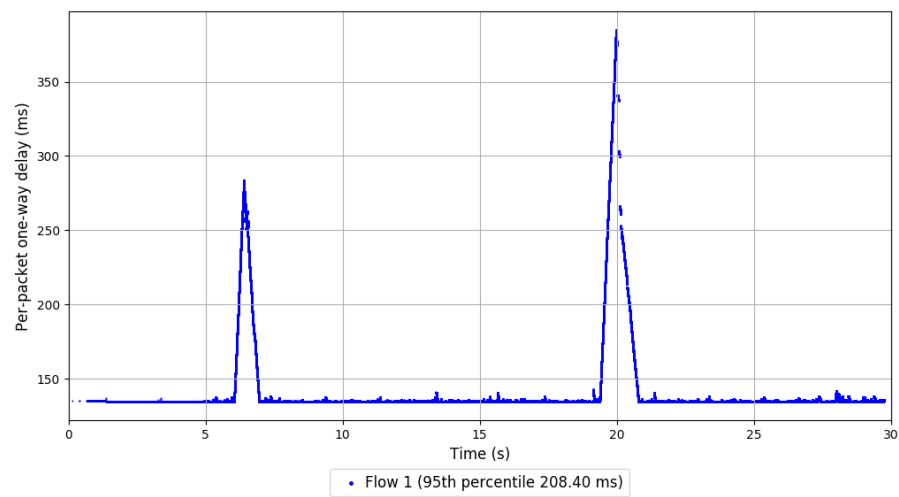
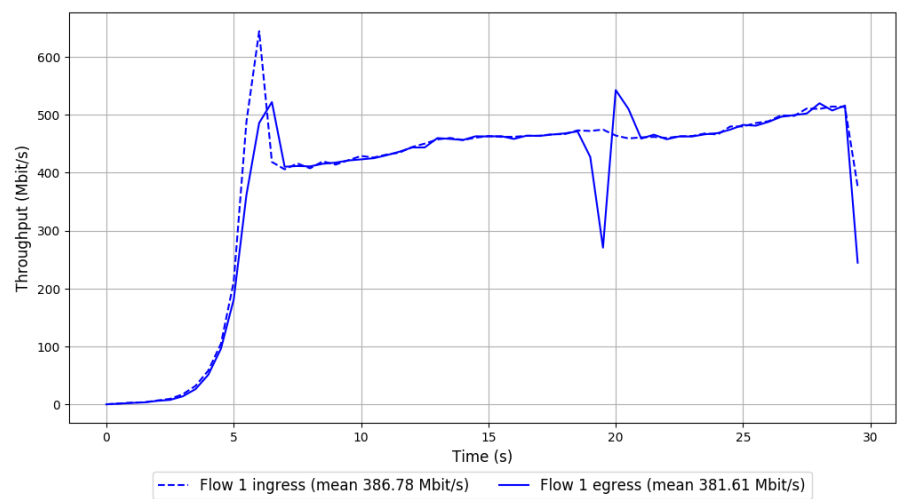


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-28 00:14:00
End at: 2018-02-28 00:14:30

# Below is generated by plot.py at 2018-02-28 06:32:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 381.61 Mbit/s
95th percentile per-packet one-way delay: 208.401 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 381.61 Mbit/s
95th percentile per-packet one-way delay: 208.401 ms
Loss rate: 2.23%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-28 00:30:21

End at: 2018-02-28 00:30:51

Below is generated by plot.py at 2018-02-28 06:32:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.59 Mbit/s

95th percentile per-packet one-way delay: 167.491 ms

Loss rate: 1.45%

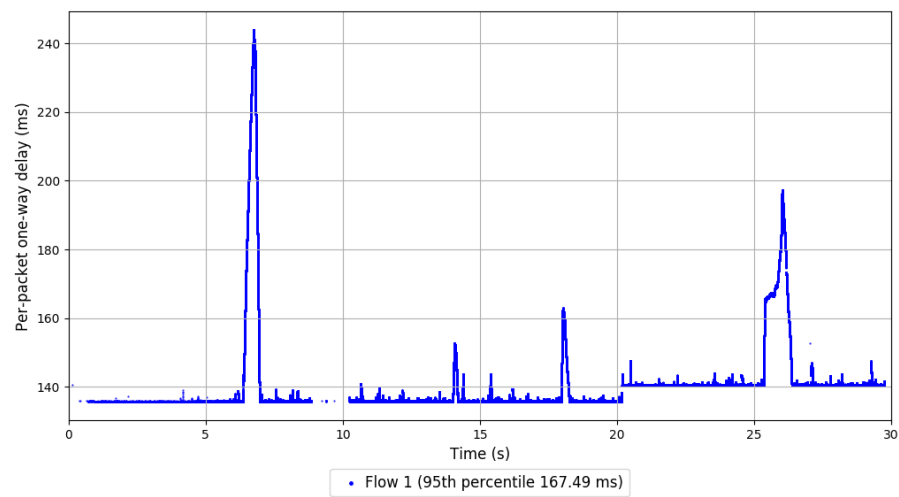
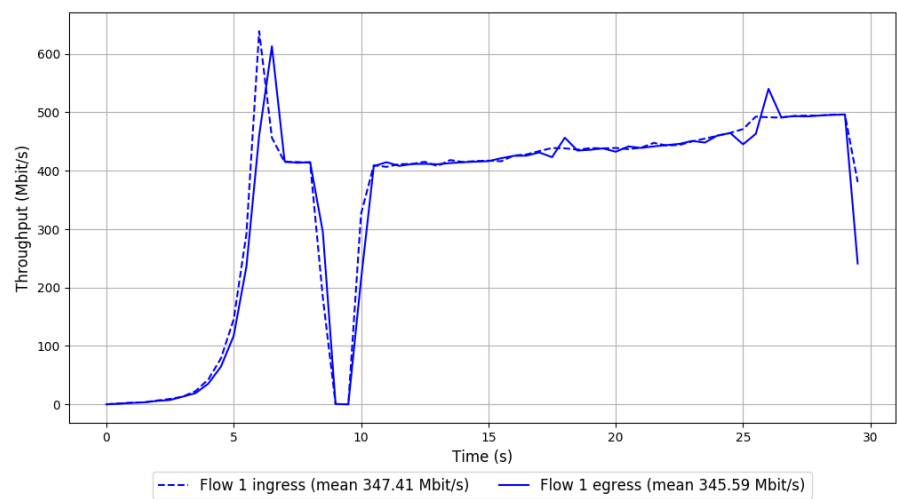
-- Flow 1:

Average throughput: 345.59 Mbit/s

95th percentile per-packet one-way delay: 167.491 ms

Loss rate: 1.45%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-28 00:46:40

End at: 2018-02-28 00:47:10

Below is generated by plot.py at 2018-02-28 06:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.02 Mbit/s

95th percentile per-packet one-way delay: 223.137 ms

Loss rate: 1.39%

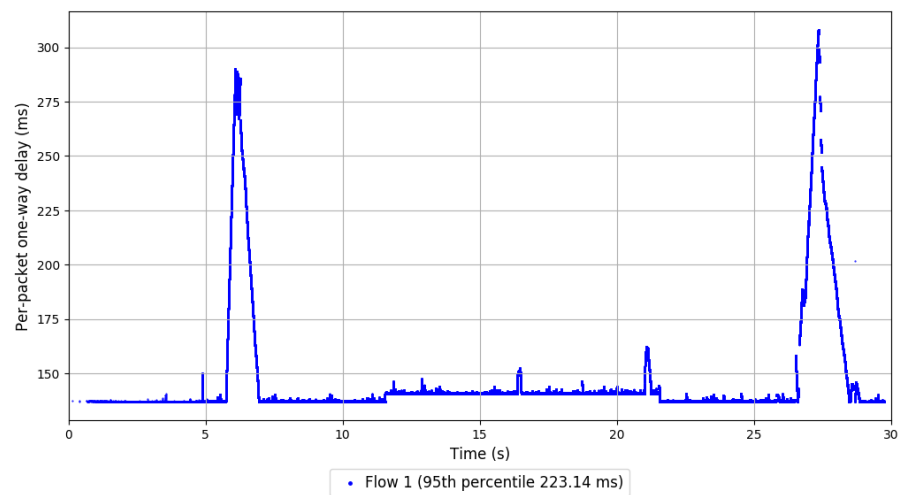
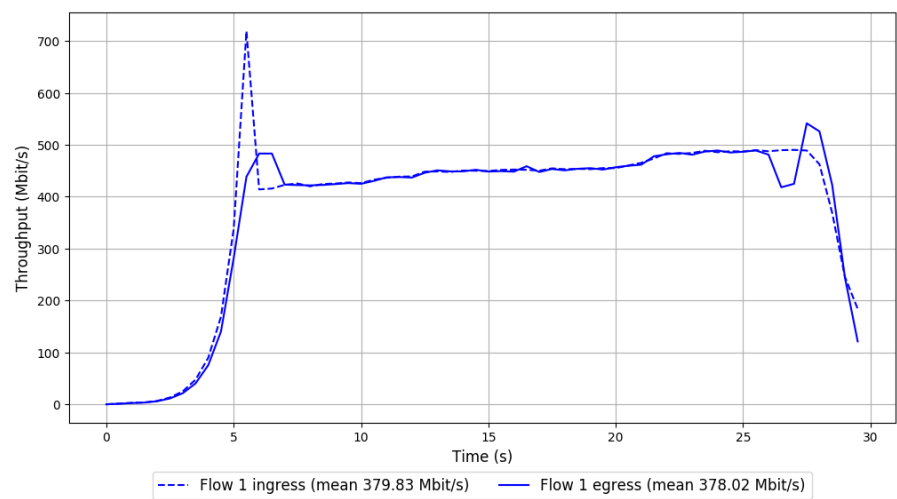
-- Flow 1:

Average throughput: 378.02 Mbit/s

95th percentile per-packet one-way delay: 223.137 ms

Loss rate: 1.39%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-28 01:02:30

End at: 2018-02-28 01:03:00

Below is generated by plot.py at 2018-02-28 06:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.94 Mbit/s

95th percentile per-packet one-way delay: 269.344 ms

Loss rate: 2.69%

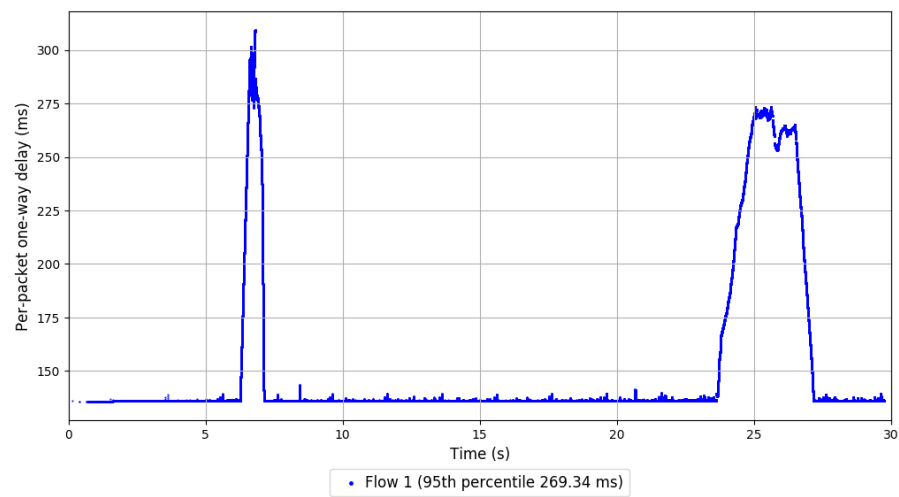
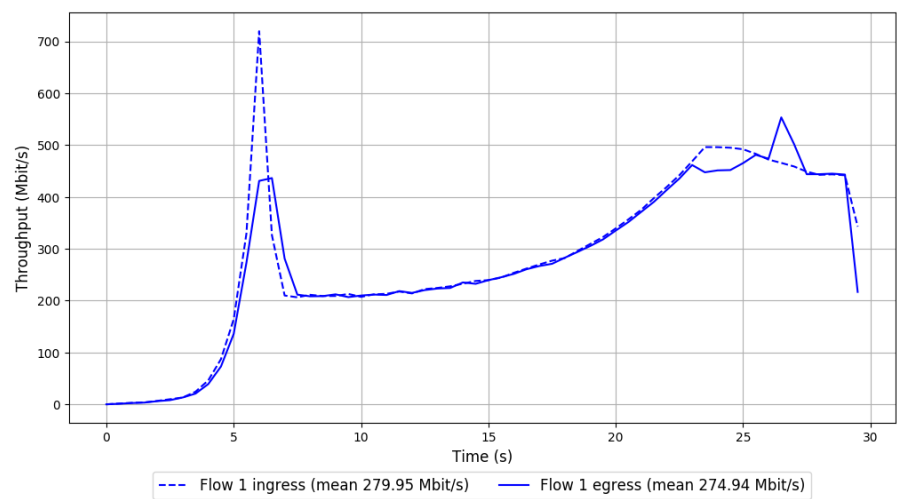
-- Flow 1:

Average throughput: 274.94 Mbit/s

95th percentile per-packet one-way delay: 269.344 ms

Loss rate: 2.69%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-28 01:18:03

End at: 2018-02-28 01:18:33

Below is generated by plot.py at 2018-02-28 06:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.91 Mbit/s

95th percentile per-packet one-way delay: 284.780 ms

Loss rate: 2.82%

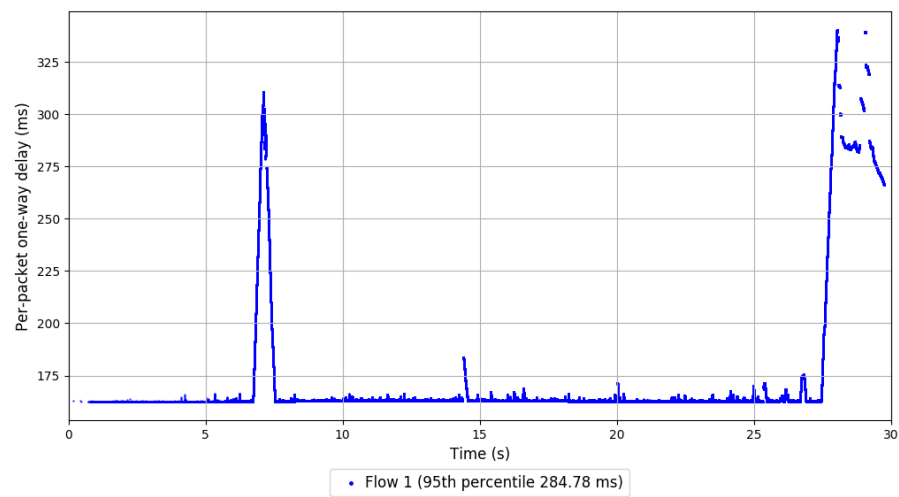
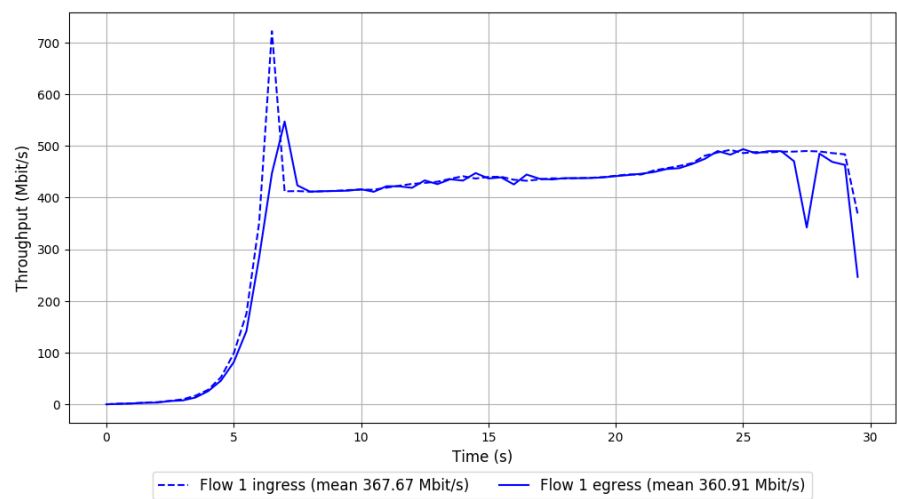
-- Flow 1:

Average throughput: 360.91 Mbit/s

95th percentile per-packet one-way delay: 284.780 ms

Loss rate: 2.82%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-28 01:33:48

End at: 2018-02-28 01:34:18

Below is generated by plot.py at 2018-02-28 06:34:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.88 Mbit/s

95th percentile per-packet one-way delay: 251.950 ms

Loss rate: 2.10%

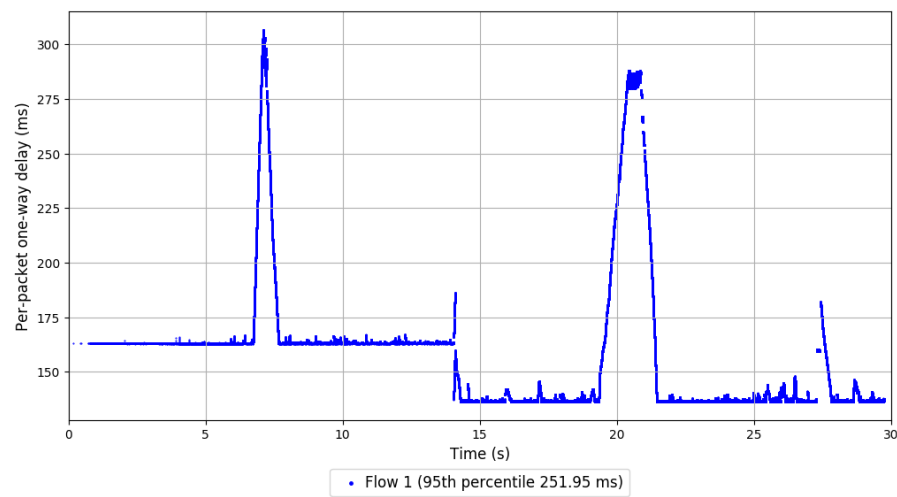
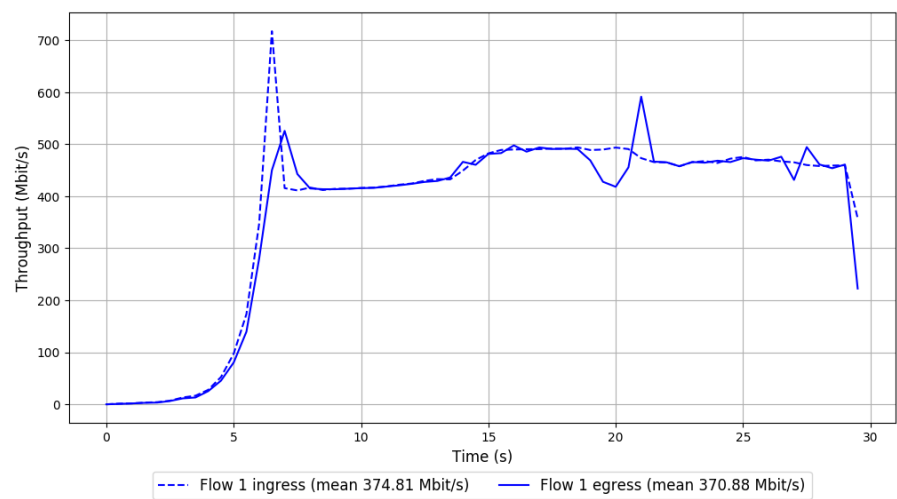
-- Flow 1:

Average throughput: 370.88 Mbit/s

95th percentile per-packet one-way delay: 251.950 ms

Loss rate: 2.10%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-28 01:49:48

End at: 2018-02-28 01:50:18

Below is generated by plot.py at 2018-02-28 06:35:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.49 Mbit/s

95th percentile per-packet one-way delay: 205.397 ms

Loss rate: 1.03%

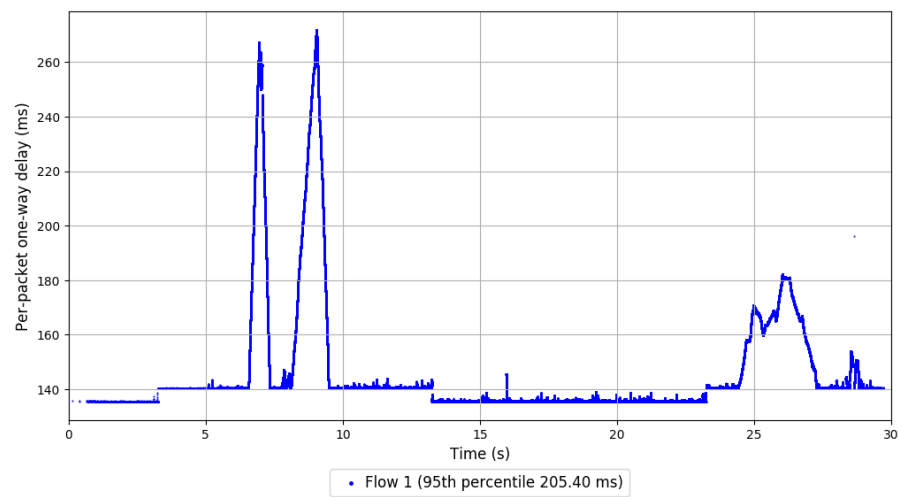
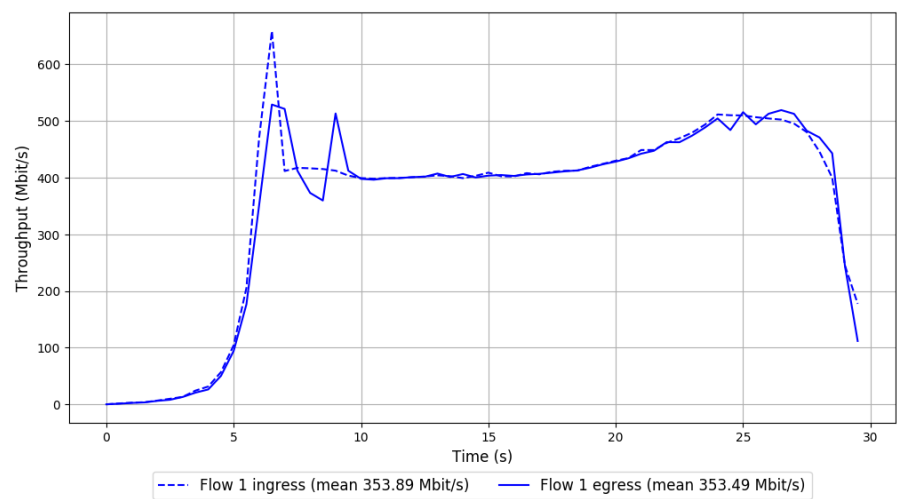
-- Flow 1:

Average throughput: 353.49 Mbit/s

95th percentile per-packet one-way delay: 205.397 ms

Loss rate: 1.03%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-28 02:05:21

End at: 2018-02-28 02:05:51

Below is generated by plot.py at 2018-02-28 06:35:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.46 Mbit/s

95th percentile per-packet one-way delay: 253.560 ms

Loss rate: 1.52%

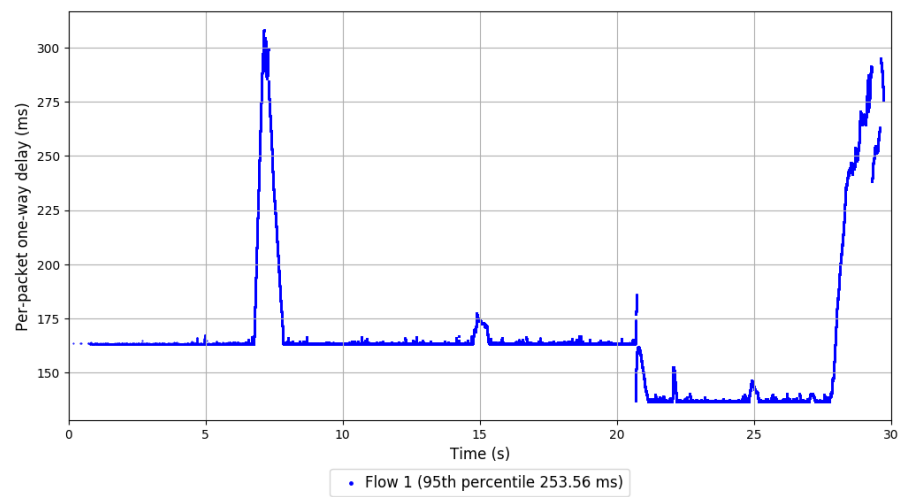
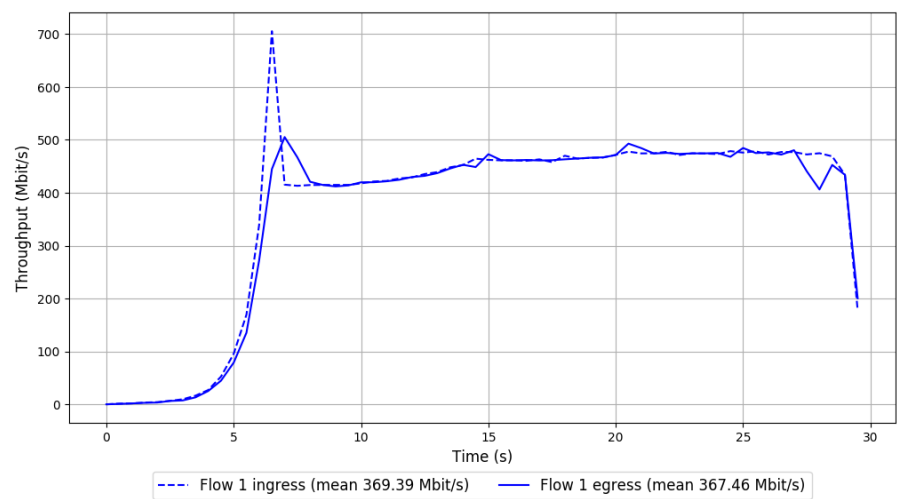
-- Flow 1:

Average throughput: 367.46 Mbit/s

95th percentile per-packet one-way delay: 253.560 ms

Loss rate: 1.52%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-28 02:21:29

End at: 2018-02-28 02:21:59

Below is generated by plot.py at 2018-02-28 06:35:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.97 Mbit/s

95th percentile per-packet one-way delay: 224.716 ms

Loss rate: 1.66%

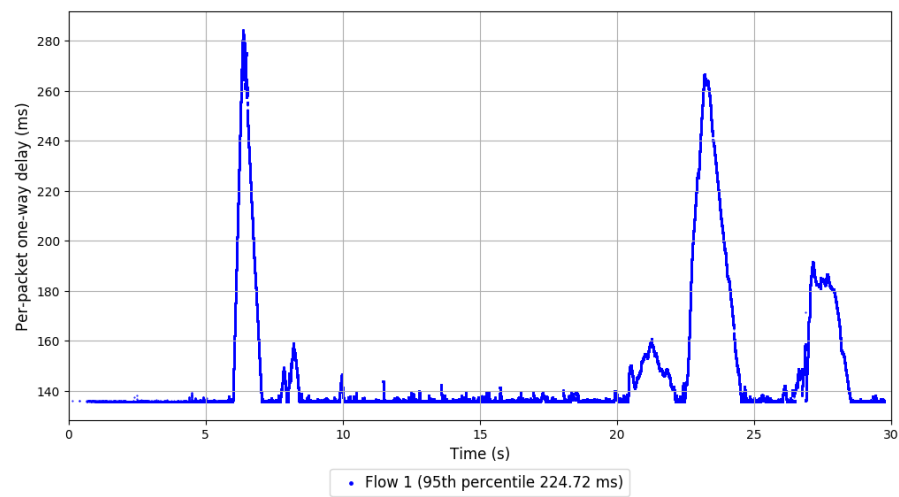
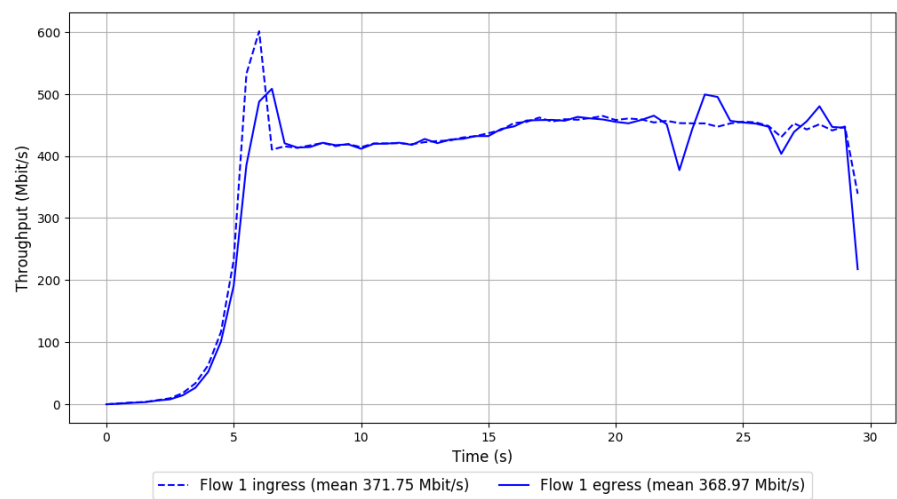
-- Flow 1:

Average throughput: 368.97 Mbit/s

95th percentile per-packet one-way delay: 224.716 ms

Loss rate: 1.66%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-28 02:37:43

End at: 2018-02-28 02:38:13

Below is generated by plot.py at 2018-02-28 06:35:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.25 Mbit/s

95th percentile per-packet one-way delay: 263.567 ms

Loss rate: 2.62%

-- Flow 1:

Average throughput: 392.25 Mbit/s

95th percentile per-packet one-way delay: 263.567 ms

Loss rate: 2.62%

Run 10: Report of Vivace-LTE — Data Link

