

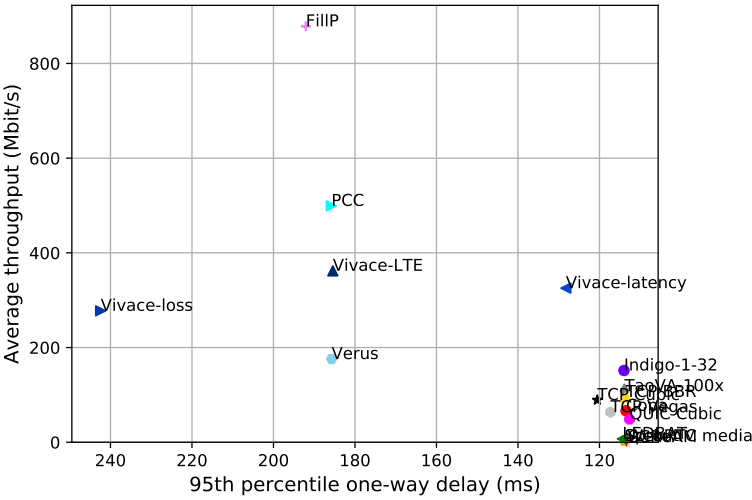
Pantheon Report

Generated at 2018-02-20 00:33:14 (UTC).
Data path: GCE London Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

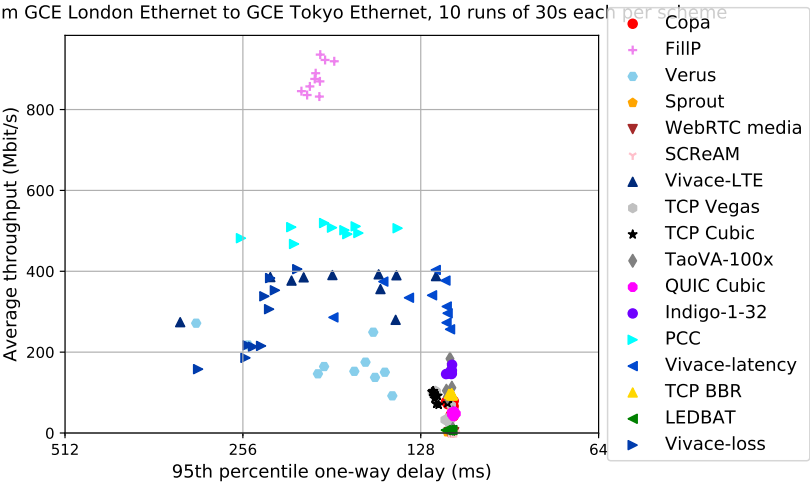
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE London Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE London Ethernet to GCE Tokyo 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	95.64	113.51	0.00
TCP Cubic	10	89.14	120.53	0.00
LEDBAT	10	7.11	114.38	0.00
PCC	10	499.12	185.79	1.07
QUIC Cubic	7	48.67	112.63	0.00
SCReAM	10	0.21	112.92	0.00
WebRTC media	10	2.16	113.25	0.00
Sprout	10	2.47	113.85	0.00
TaoVA-100x	10	108.07	113.87	0.00
TCP Vegas	10	63.51	117.31	0.00
Verus	10	175.70	185.74	0.51
Copa	10	66.36	113.48	0.00
FillP	10	878.40	192.06	4.82
Indigo-1-32	10	151.54	113.99	0.00
Vivace-latency	10	325.42	128.26	0.06
Vivace-loss	10	277.53	242.40	3.94
Vivace-LTE	10	361.98	185.44	0.75

Run 1: Statistics of TCP BBR

Start at: 2018-02-19 19:39:28

End at: 2018-02-19 19:39:58

Below is generated by plot.py at 2018-02-19 23:25:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.89 Mbit/s

95th percentile per-packet one-way delay: 114.679 ms

Loss rate: 0.00%

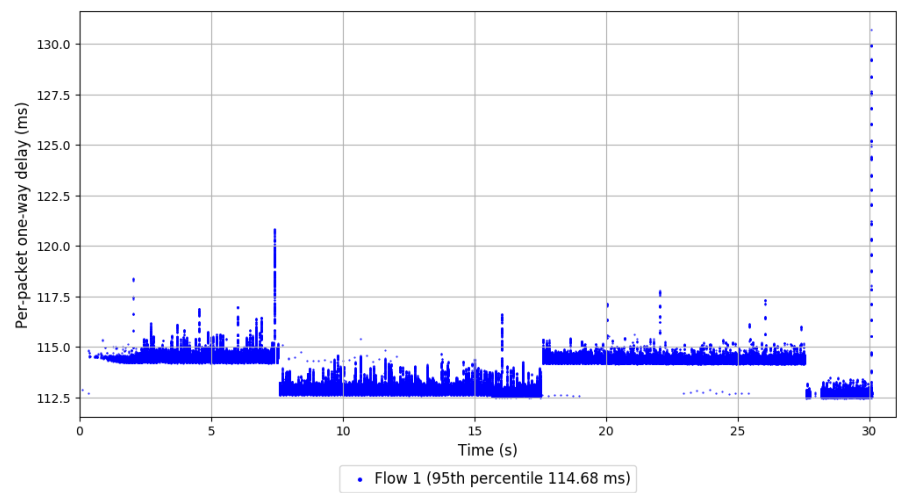
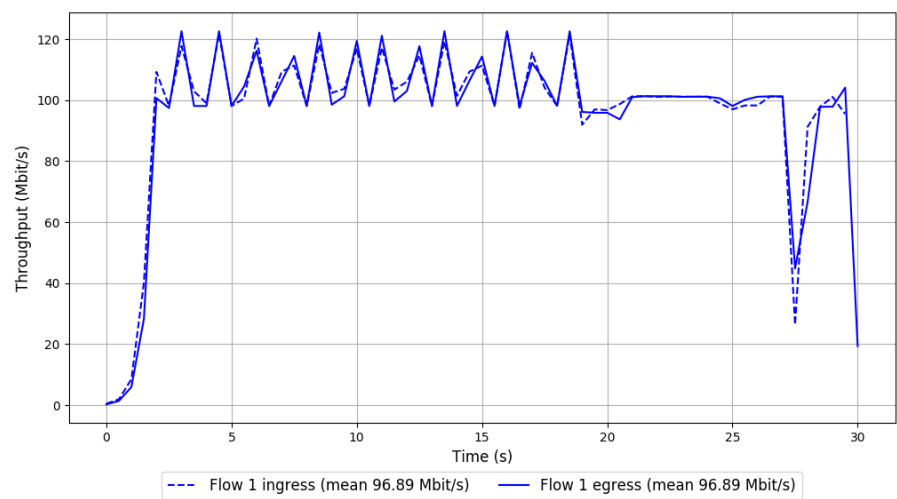
-- Flow 1:

Average throughput: 96.89 Mbit/s

95th percentile per-packet one-way delay: 114.679 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-19 19:55:13

End at: 2018-02-19 19:55:43

Below is generated by plot.py at 2018-02-19 23:25:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 113.923 ms

Loss rate: 0.00%

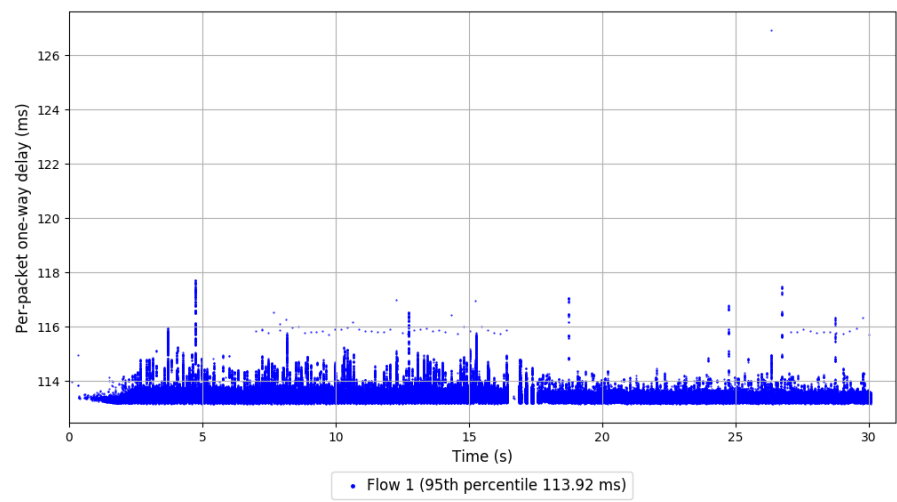
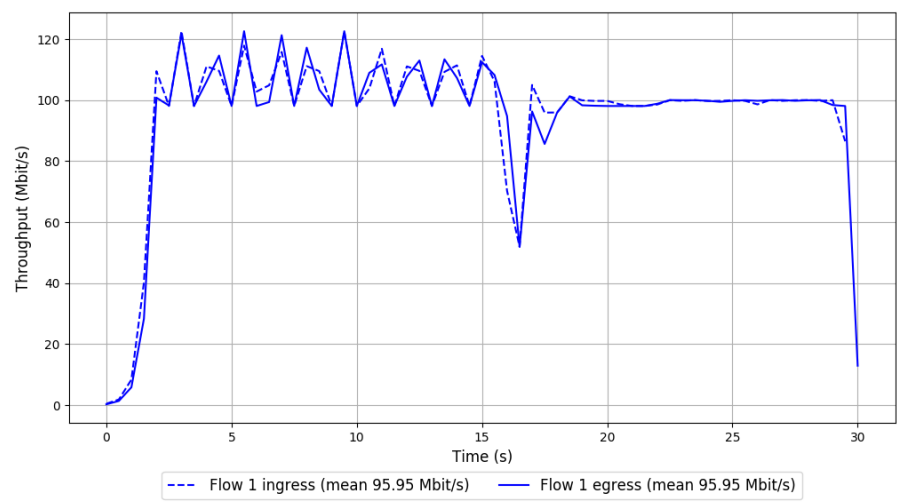
-- Flow 1:

Average throughput: 95.95 Mbit/s

95th percentile per-packet one-way delay: 113.923 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-19 20:10:56

End at: 2018-02-19 20:11:26

Below is generated by plot.py at 2018-02-19 23:25:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.07 Mbit/s

95th percentile per-packet one-way delay: 113.348 ms

Loss rate: 0.00%

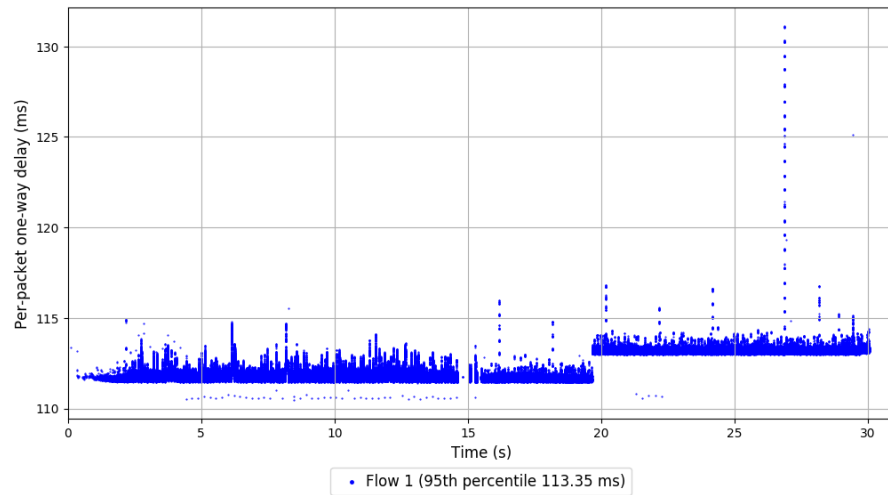
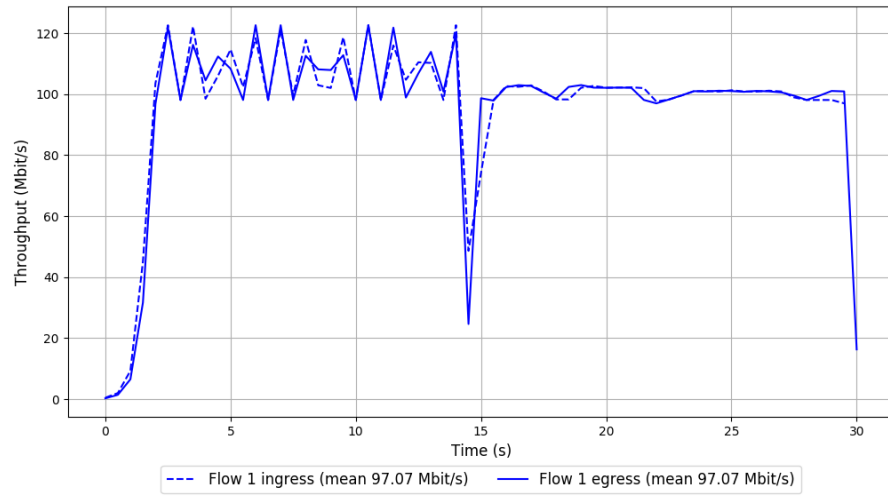
-- Flow 1:

Average throughput: 97.07 Mbit/s

95th percentile per-packet one-way delay: 113.348 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-19 20:25:56

End at: 2018-02-19 20:26:26

Below is generated by plot.py at 2018-02-19 23:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.40 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 0.00%

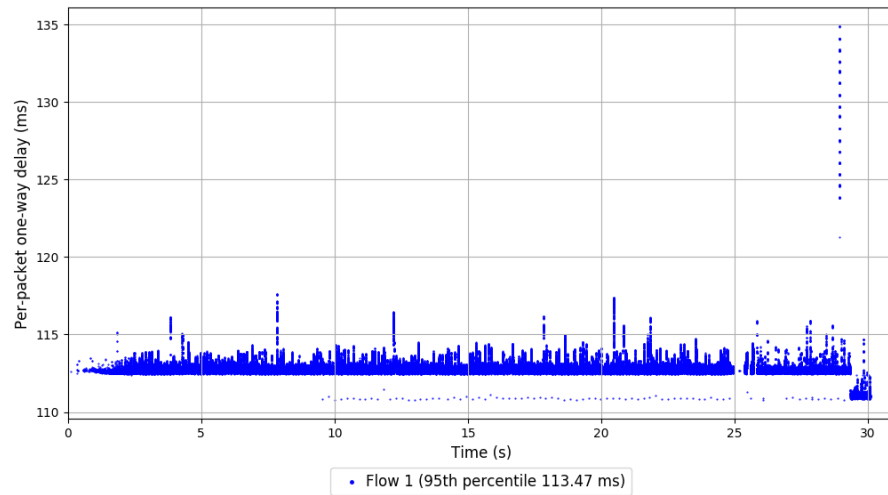
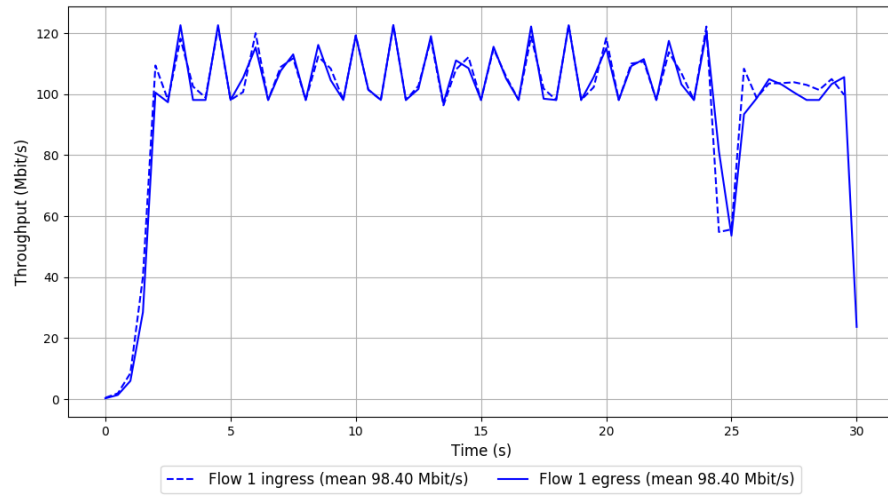
-- Flow 1:

Average throughput: 98.40 Mbit/s

95th percentile per-packet one-way delay: 113.468 ms

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-19 20:41:40

End at: 2018-02-19 20:42:10

Below is generated by plot.py at 2018-02-19 23:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.99 Mbit/s

95th percentile per-packet one-way delay: 113.027 ms

Loss rate: 0.00%

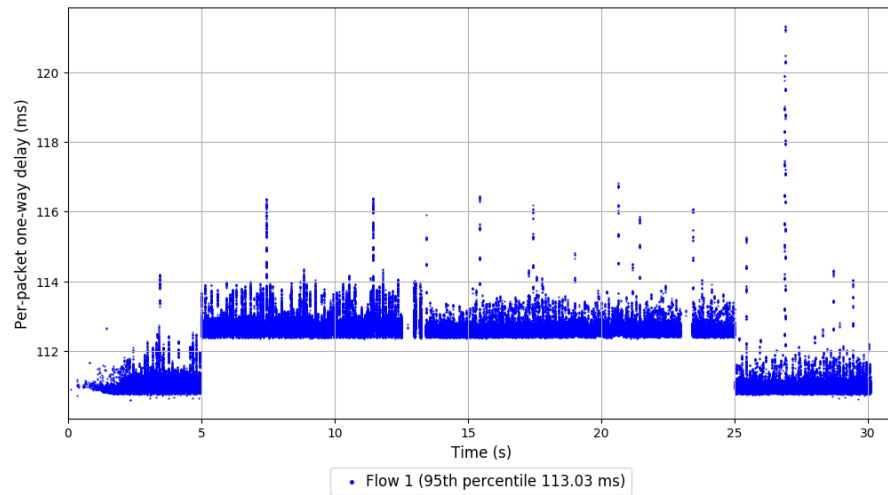
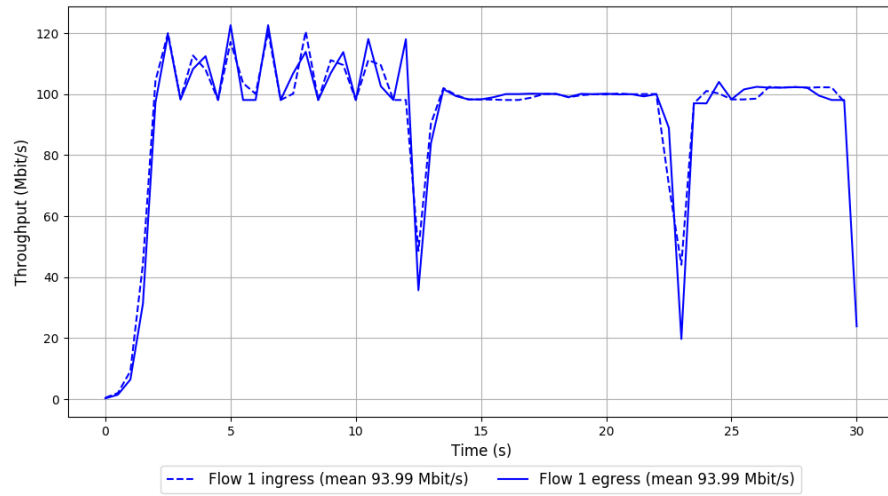
-- Flow 1:

Average throughput: 93.99 Mbit/s

95th percentile per-packet one-way delay: 113.027 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-19 20:57:02

End at: 2018-02-19 20:57:32

Below is generated by plot.py at 2018-02-19 23:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 112.996 ms

Loss rate: 0.00%

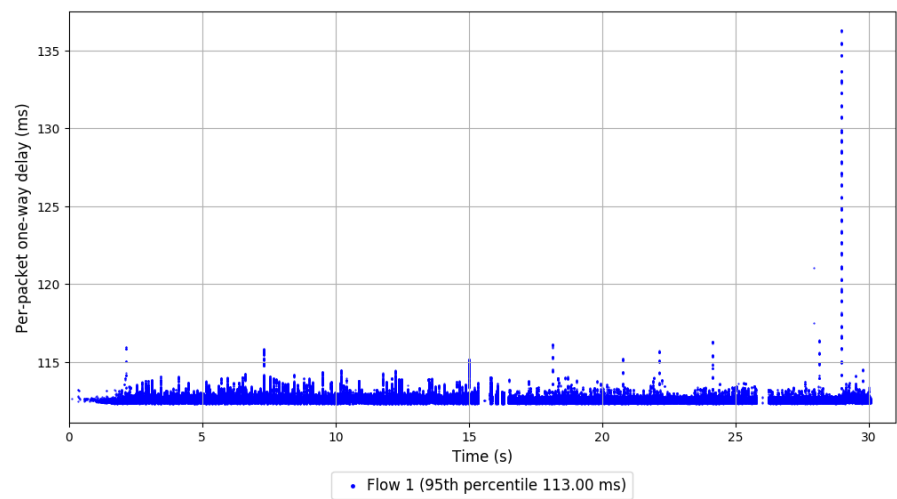
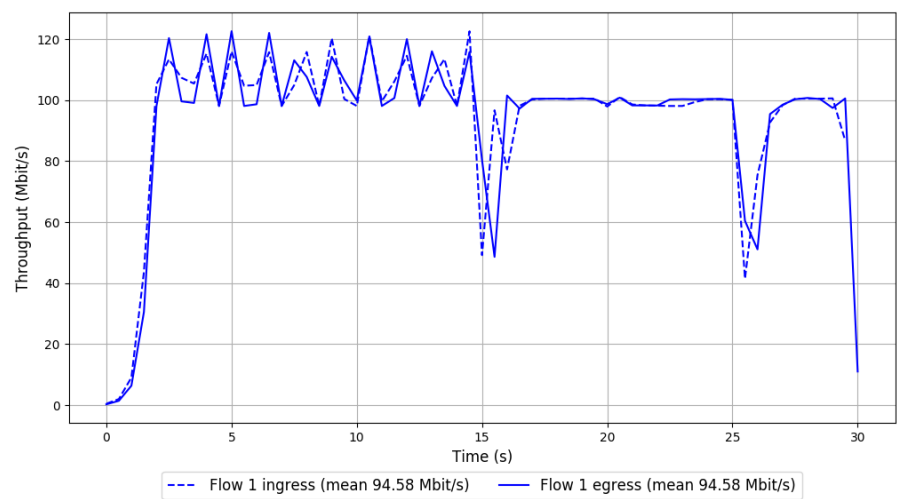
-- Flow 1:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 112.996 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-19 21:12:19

End at: 2018-02-19 21:12:49

Below is generated by plot.py at 2018-02-19 23:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 113.029 ms

Loss rate: 0.00%

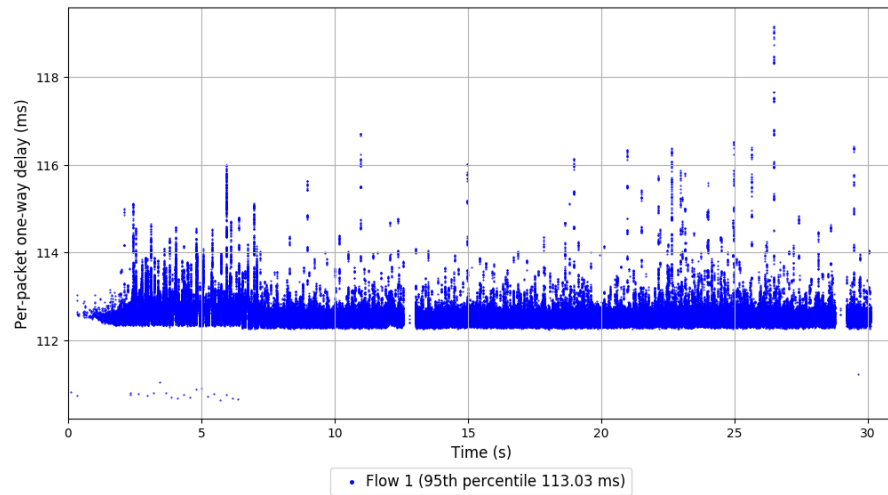
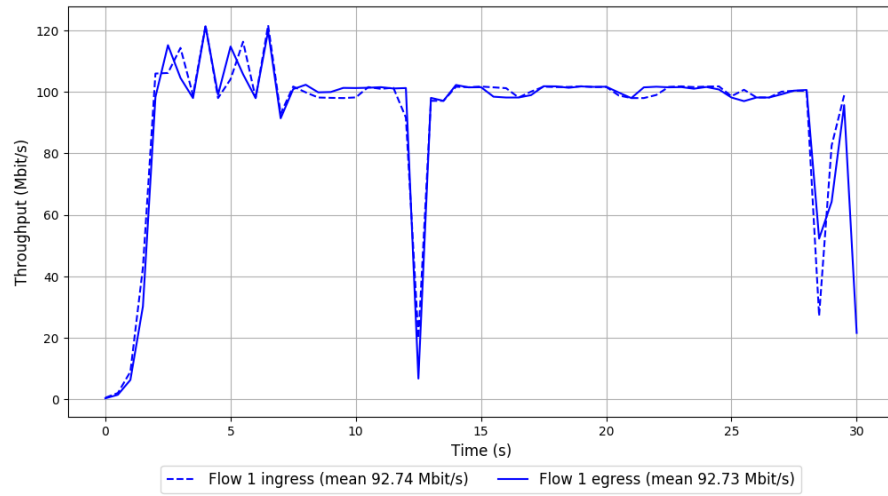
-- Flow 1:

Average throughput: 92.73 Mbit/s

95th percentile per-packet one-way delay: 113.029 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-19 21:27:36

End at: 2018-02-19 21:28:06

Below is generated by plot.py at 2018-02-19 23:25:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 113.323 ms

Loss rate: 0.01%

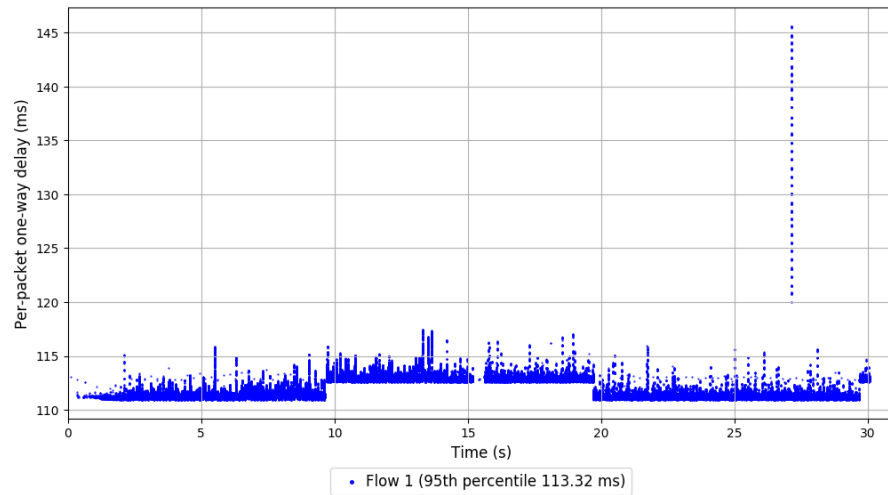
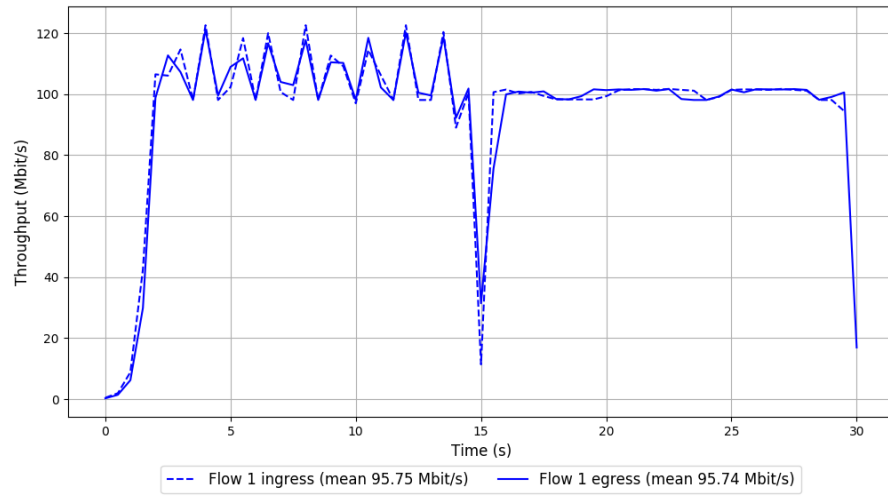
-- Flow 1:

Average throughput: 95.74 Mbit/s

95th percentile per-packet one-way delay: 113.323 ms

Loss rate: 0.01%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-19 21:43:09

End at: 2018-02-19 21:43:39

Below is generated by plot.py at 2018-02-19 23:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.82 Mbit/s

95th percentile per-packet one-way delay: 113.444 ms

Loss rate: 0.00%

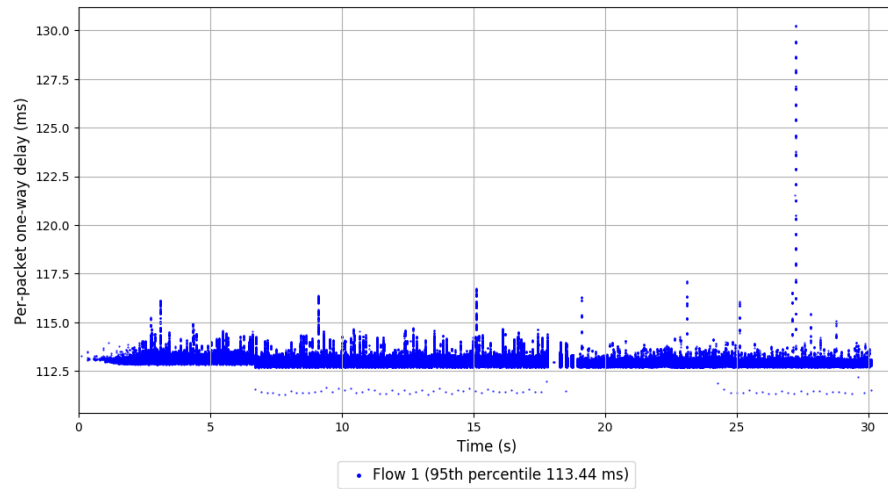
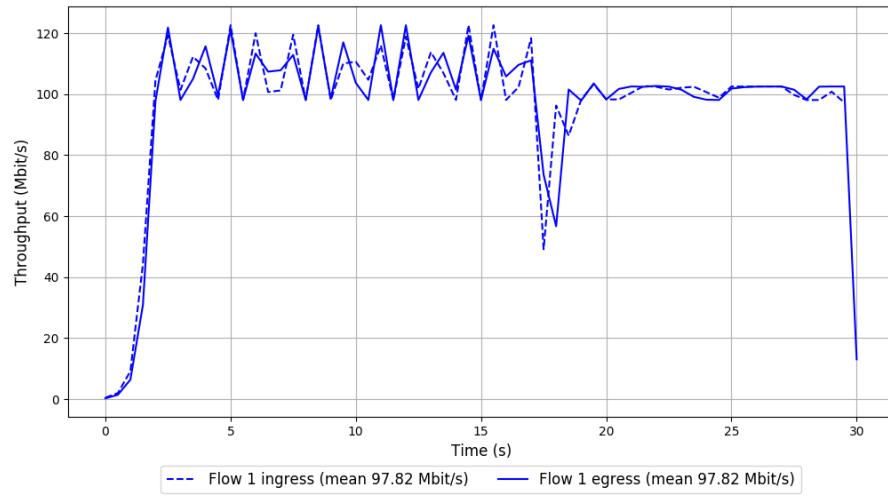
-- Flow 1:

Average throughput: 97.82 Mbit/s

95th percentile per-packet one-way delay: 113.444 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-19 21:58:50

End at: 2018-02-19 21:59:20

Below is generated by plot.py at 2018-02-19 23:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.25 Mbit/s

95th percentile per-packet one-way delay: 113.817 ms

Loss rate: 0.00%

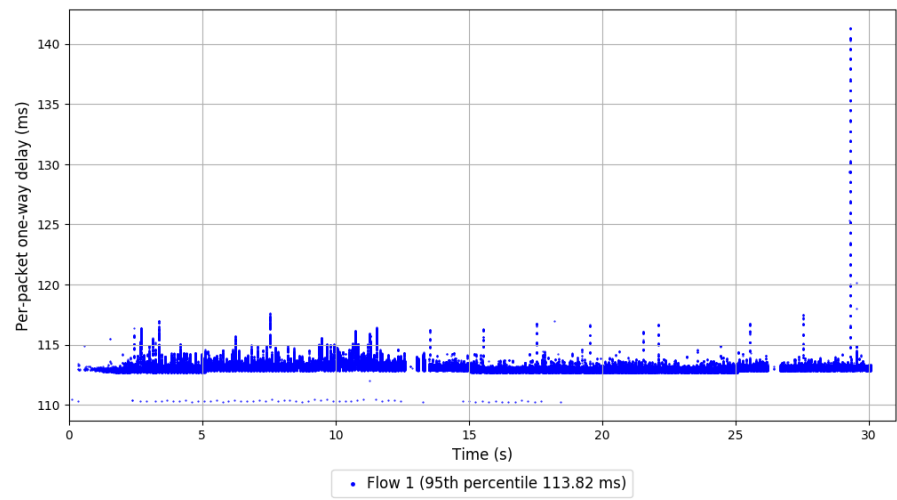
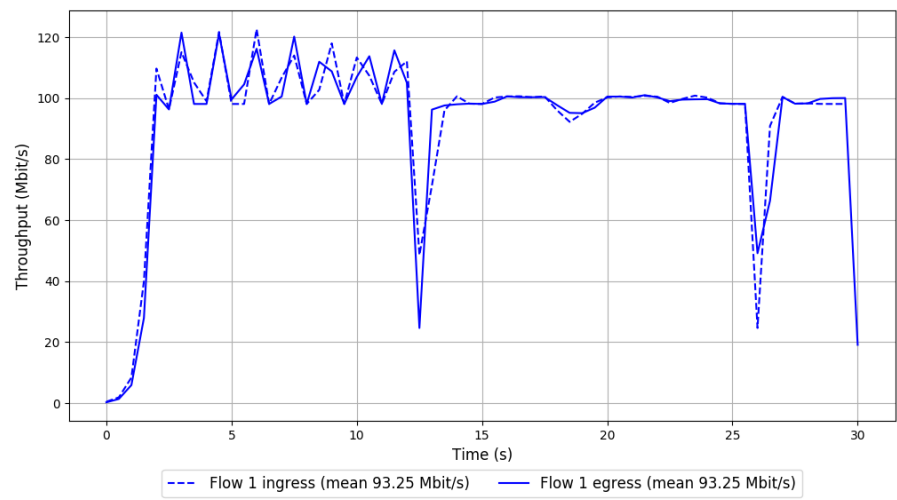
-- Flow 1:

Average throughput: 93.25 Mbit/s

95th percentile per-packet one-way delay: 113.817 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-19 19:38:42

End at: 2018-02-19 19:39:12

Below is generated by plot.py at 2018-02-19 23:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 120.490 ms

Loss rate: 0.00%

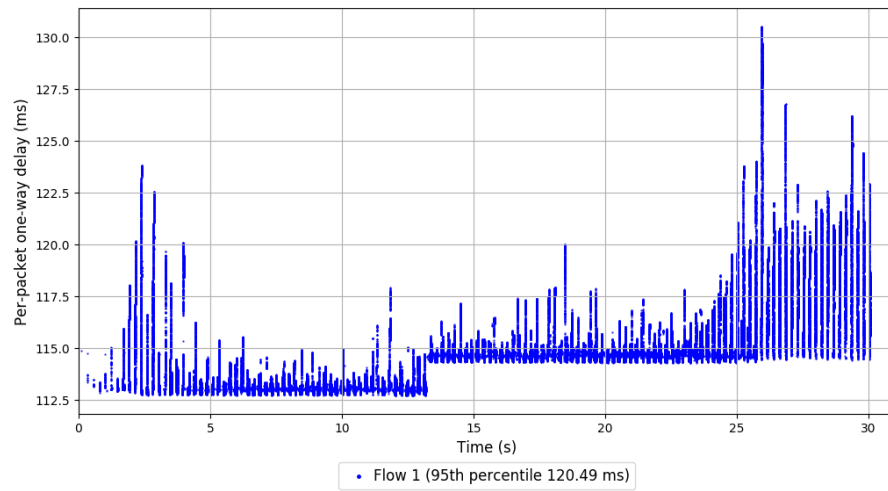
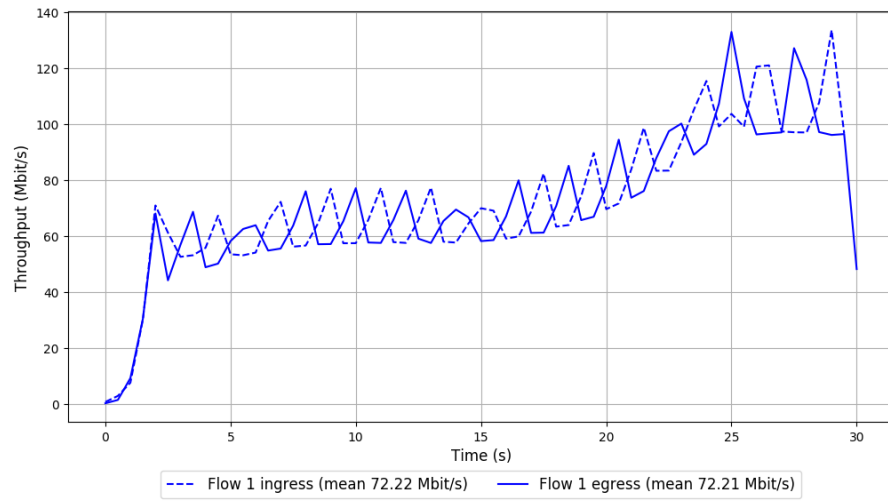
-- Flow 1:

Average throughput: 72.21 Mbit/s

95th percentile per-packet one-way delay: 120.490 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-19 19:54:27

End at: 2018-02-19 19:54:57

Below is generated by plot.py at 2018-02-19 23:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 121.304 ms

Loss rate: 0.00%

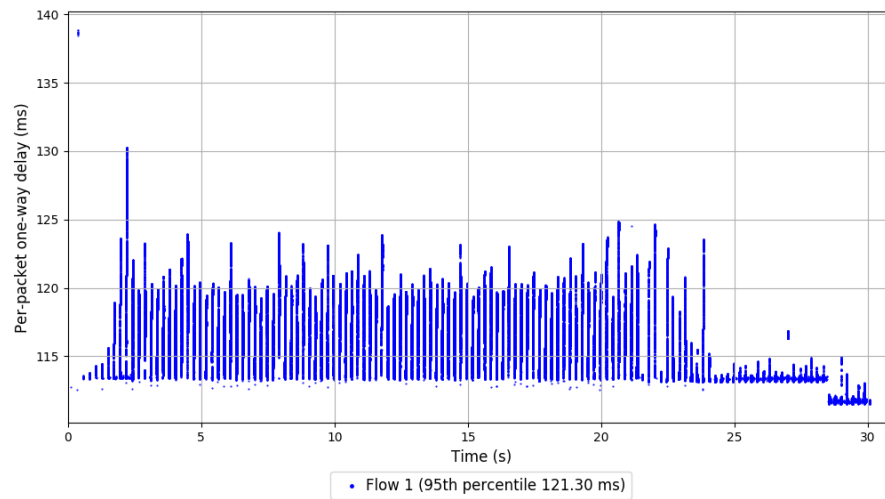
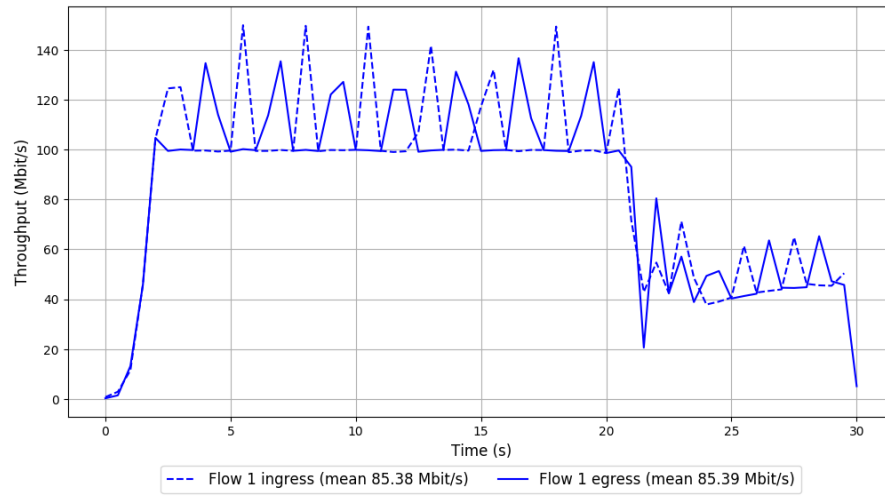
-- Flow 1:

Average throughput: 85.39 Mbit/s

95th percentile per-packet one-way delay: 121.304 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-19 20:10:10

End at: 2018-02-19 20:10:40

Below is generated by plot.py at 2018-02-19 23:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.05 Mbit/s

95th percentile per-packet one-way delay: 115.329 ms

Loss rate: 0.00%

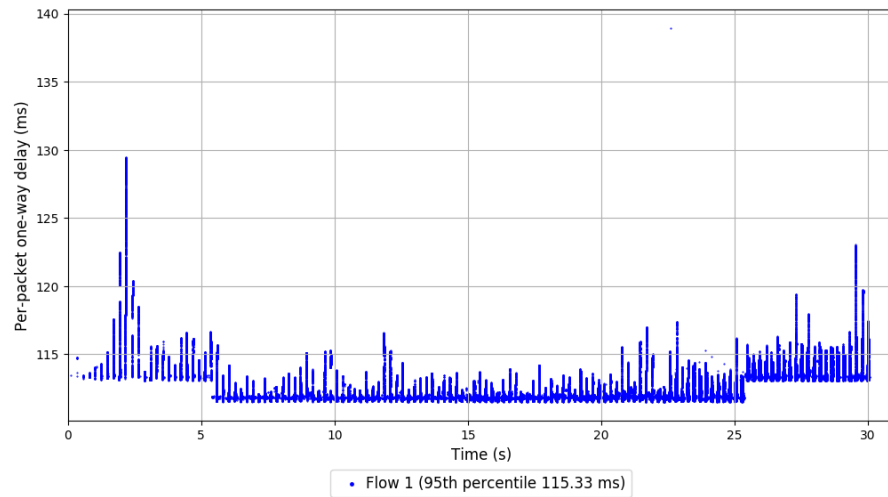
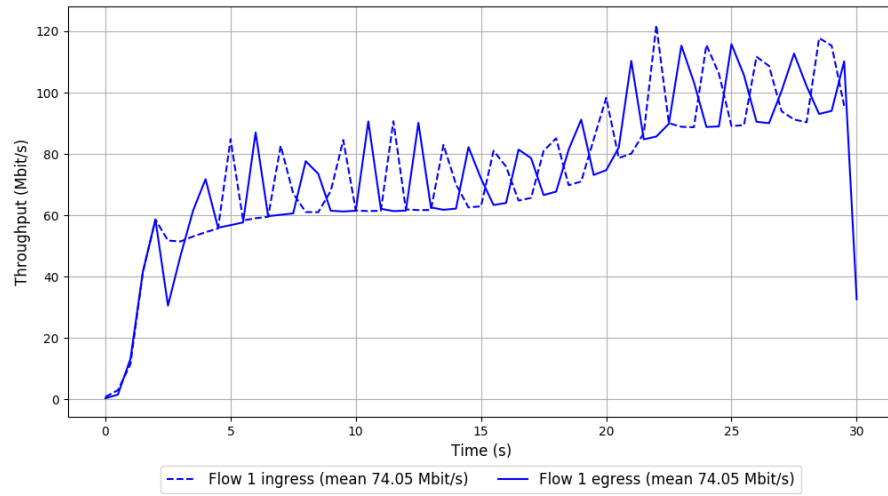
-- Flow 1:

Average throughput: 74.05 Mbit/s

95th percentile per-packet one-way delay: 115.329 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-19 20:25:09

End at: 2018-02-19 20:25:39

Below is generated by plot.py at 2018-02-19 23:26:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.20 Mbit/s

95th percentile per-packet one-way delay: 122.068 ms

Loss rate: 0.00%

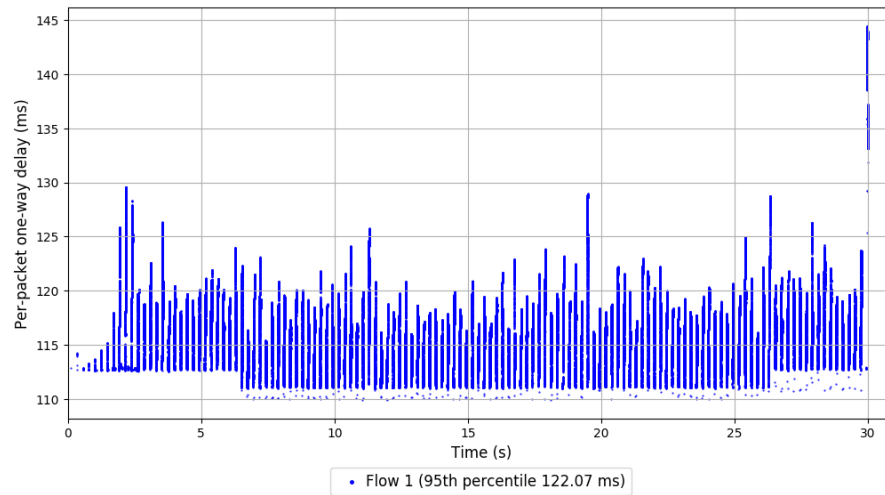
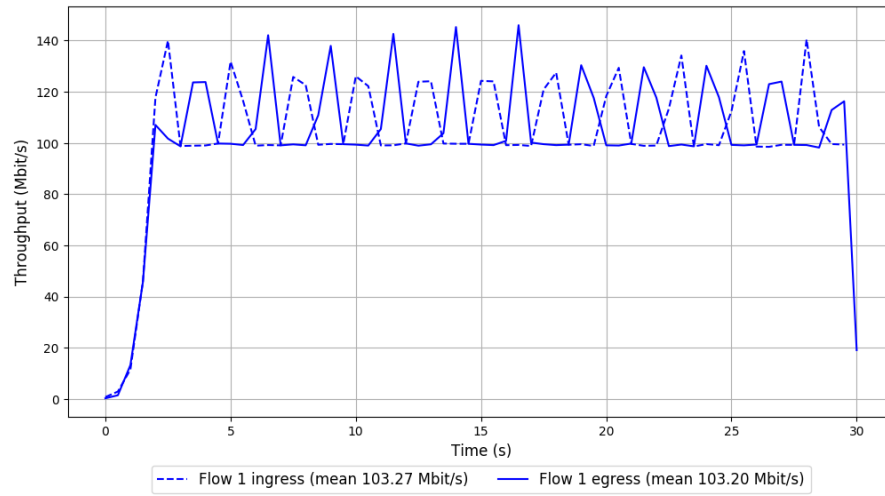
-- Flow 1:

Average throughput: 103.20 Mbit/s

95th percentile per-packet one-way delay: 122.068 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-19 20:40:54

End at: 2018-02-19 20:41:24

Below is generated by plot.py at 2018-02-19 23:26:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.08 Mbit/s

95th percentile per-packet one-way delay: 119.829 ms

Loss rate: 0.00%

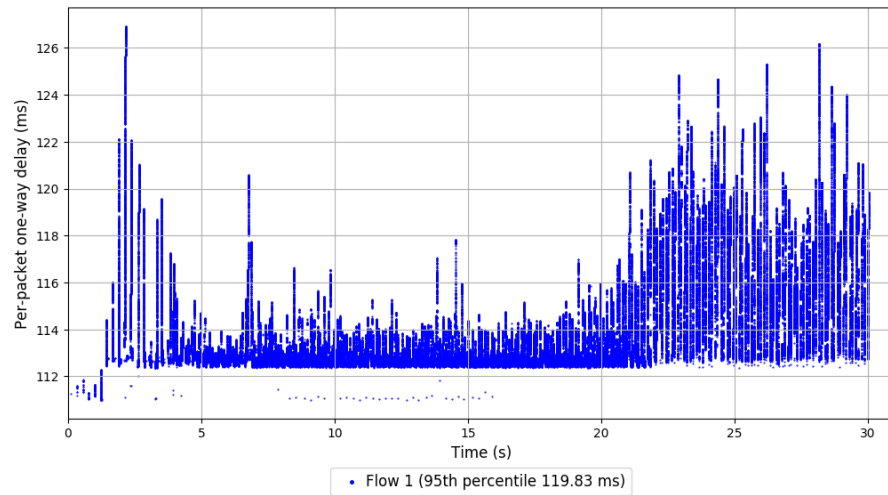
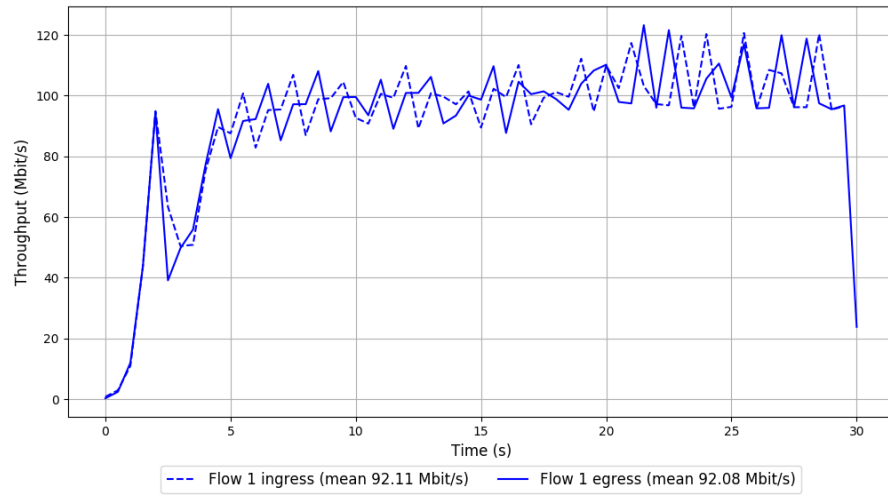
-- Flow 1:

Average throughput: 92.08 Mbit/s

95th percentile per-packet one-way delay: 119.829 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-19 20:56:15

End at: 2018-02-19 20:56:45

Below is generated by plot.py at 2018-02-19 23:26:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.52 Mbit/s

95th percentile per-packet one-way delay: 122.451 ms

Loss rate: 0.00%

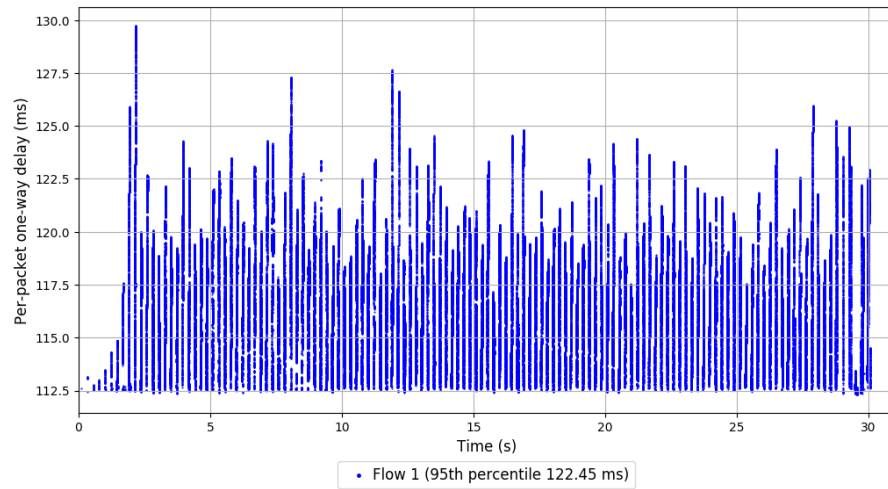
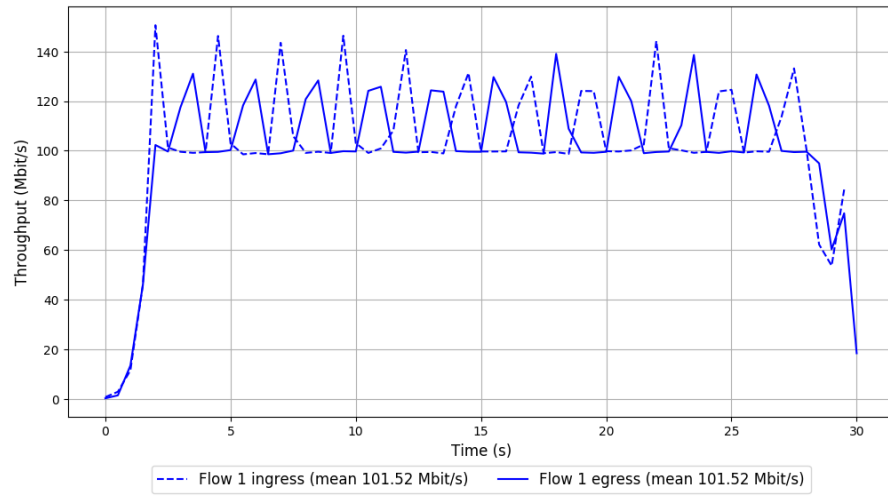
-- Flow 1:

Average throughput: 101.52 Mbit/s

95th percentile per-packet one-way delay: 122.451 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-19 21:11:32

End at: 2018-02-19 21:12:02

Below is generated by plot.py at 2018-02-19 23:27:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.76 Mbit/s

95th percentile per-packet one-way delay: 121.575 ms

Loss rate: 0.02%

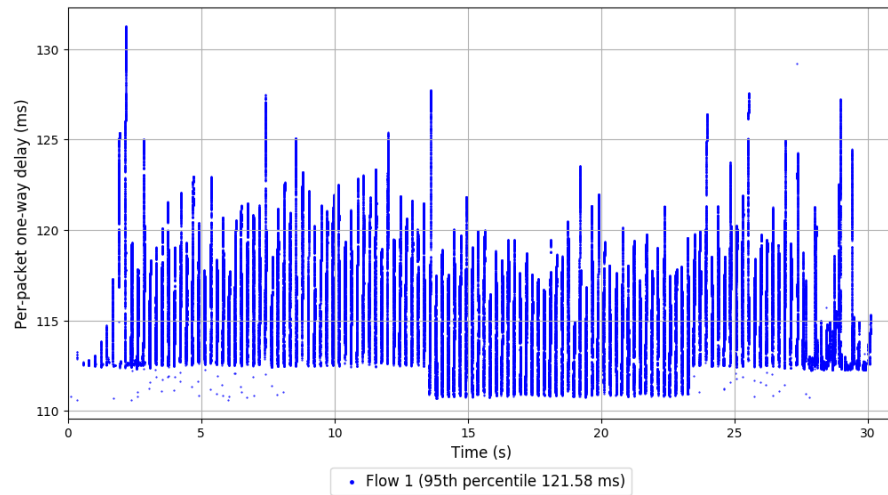
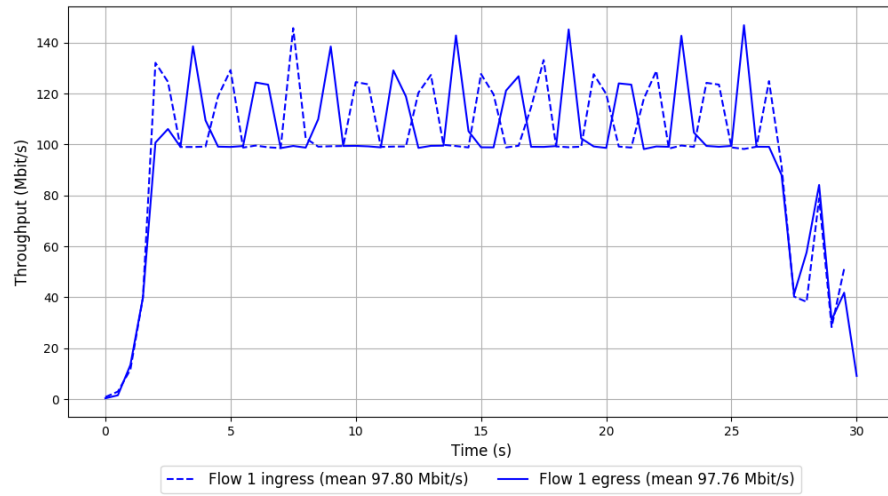
-- Flow 1:

Average throughput: 97.76 Mbit/s

95th percentile per-packet one-way delay: 121.575 ms

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-19 21:26:49

End at: 2018-02-19 21:27:19

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.75 Mbit/s

95th percentile per-packet one-way delay: 121.898 ms

Loss rate: 0.02%

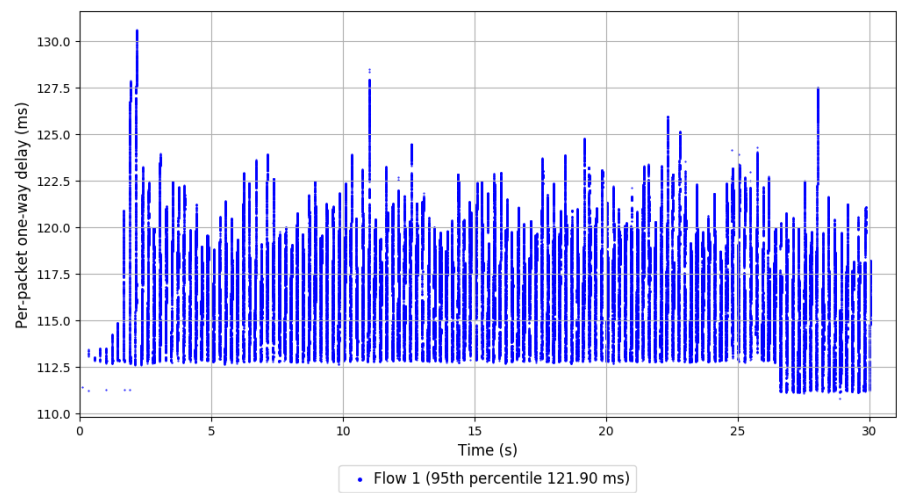
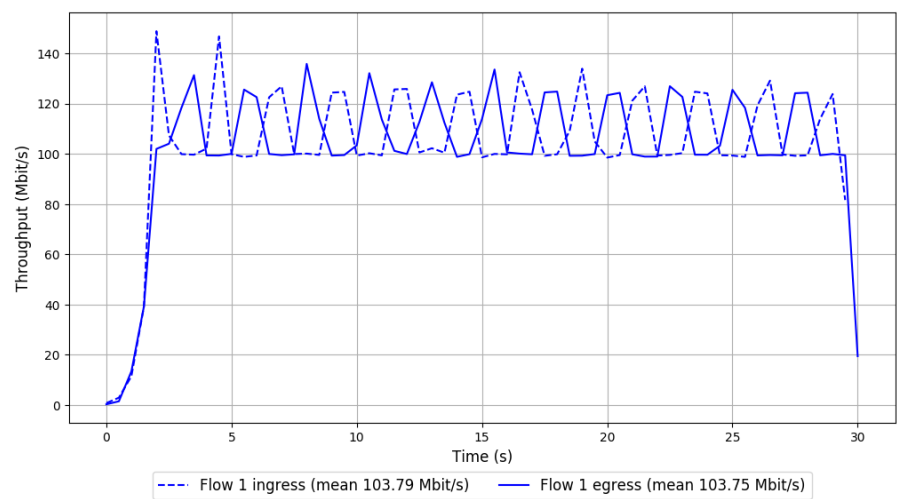
-- Flow 1:

Average throughput: 103.75 Mbit/s

95th percentile per-packet one-way delay: 121.898 ms

Loss rate: 0.02%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-19 21:42:22

End at: 2018-02-19 21:42:52

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.69 Mbit/s

95th percentile per-packet one-way delay: 120.994 ms

Loss rate: 0.00%

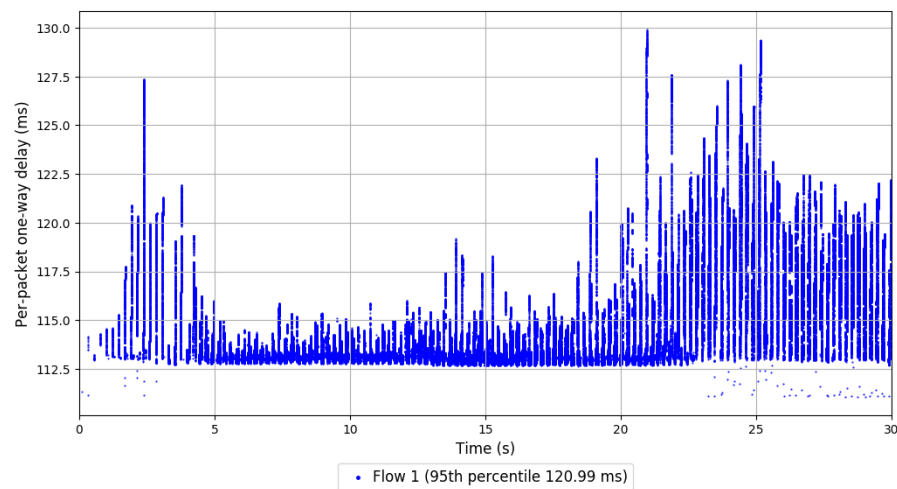
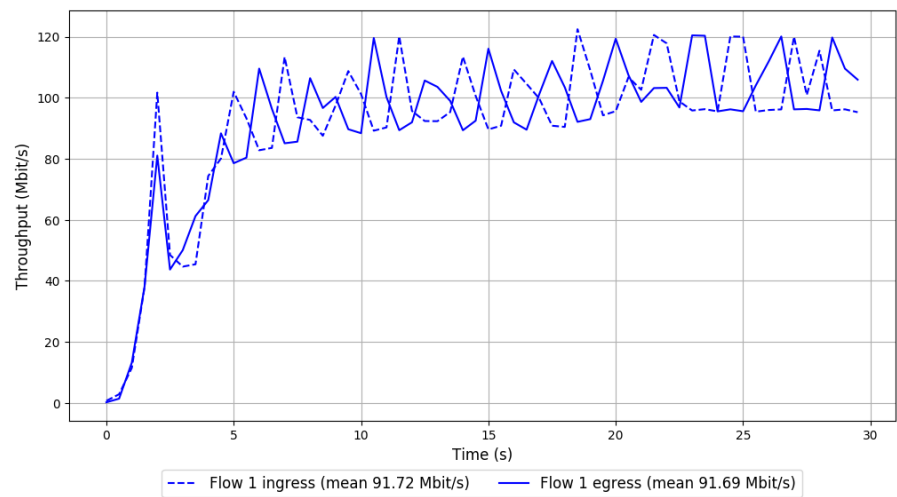
-- Flow 1:

Average throughput: 91.69 Mbit/s

95th percentile per-packet one-way delay: 120.994 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-19 21:58:05

End at: 2018-02-19 21:58:35

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.75 Mbit/s

95th percentile per-packet one-way delay: 119.387 ms

Loss rate: 0.00%

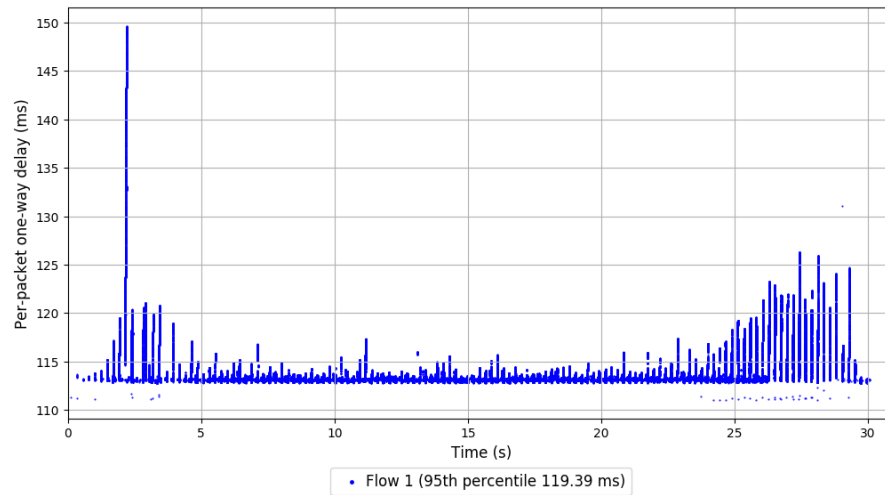
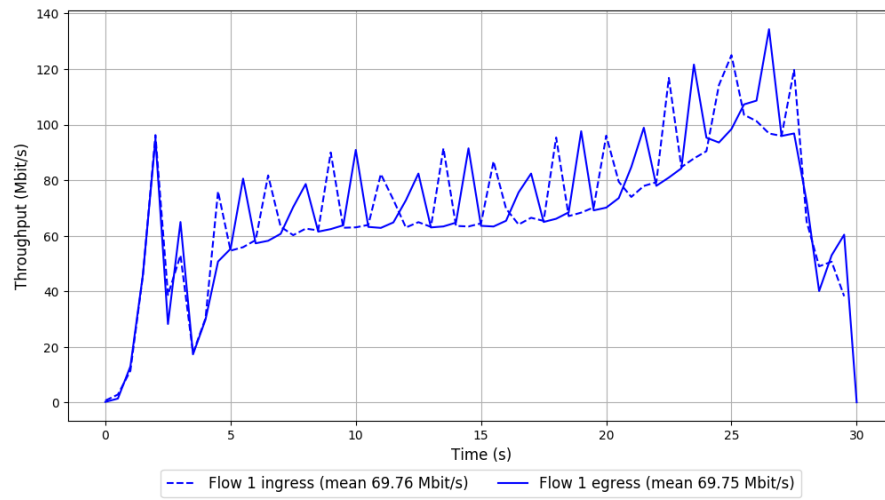
-- Flow 1:

Average throughput: 69.75 Mbit/s

95th percentile per-packet one-way delay: 119.387 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

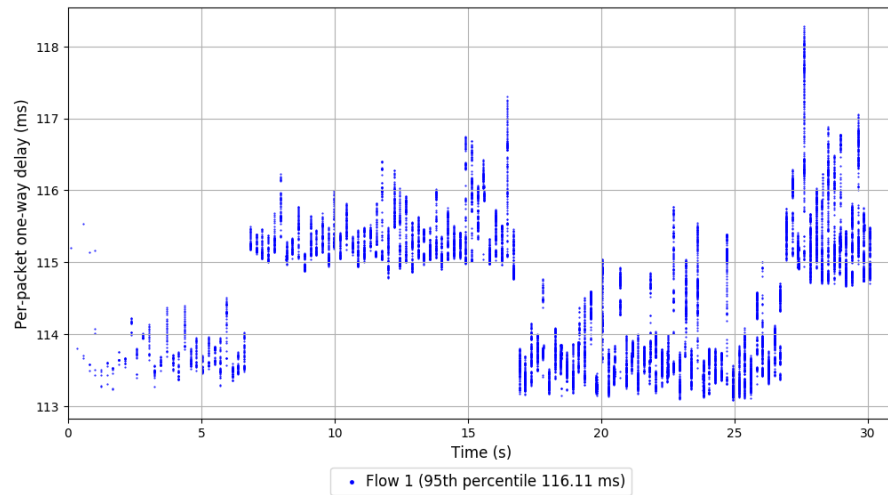
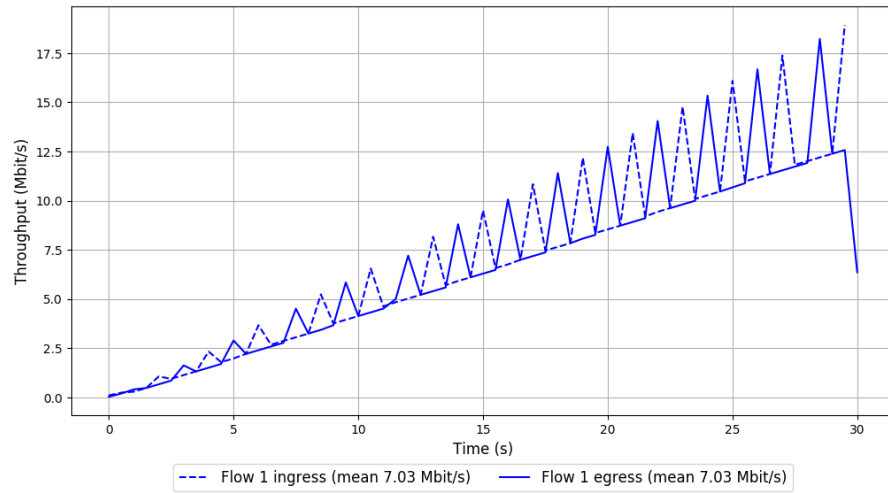


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-19 19:36:38
End at: 2018-02-19 19:37:08

# Below is generated by plot.py at 2018-02-19 23:28:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 116.108 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 116.108 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link

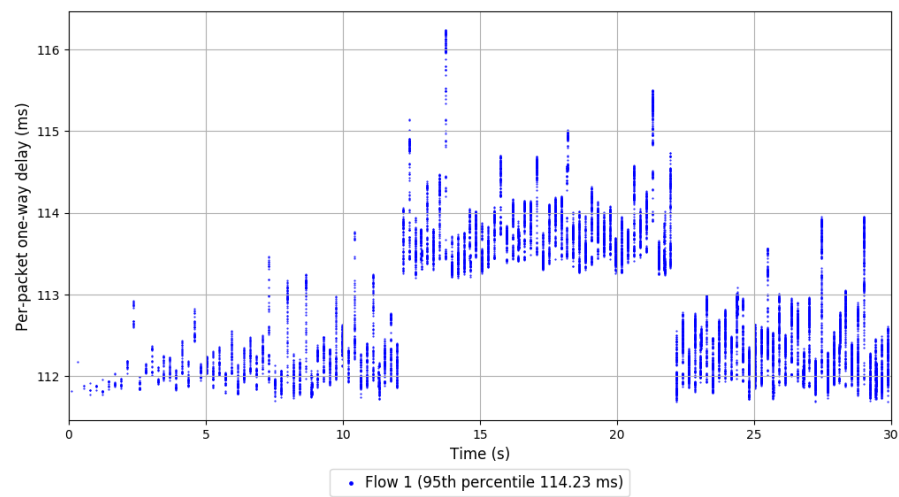
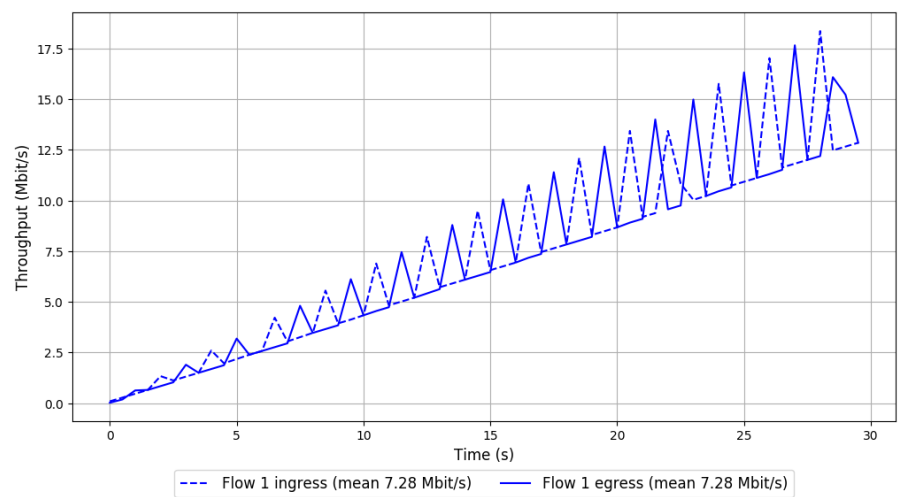


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-19 19:52:23
End at: 2018-02-19 19:52:53

# Below is generated by plot.py at 2018-02-19 23:28:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 114.231 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.28 Mbit/s
95th percentile per-packet one-way delay: 114.231 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-19 20:08:06

End at: 2018-02-19 20:08:36

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 115.093 ms

Loss rate: 0.00%

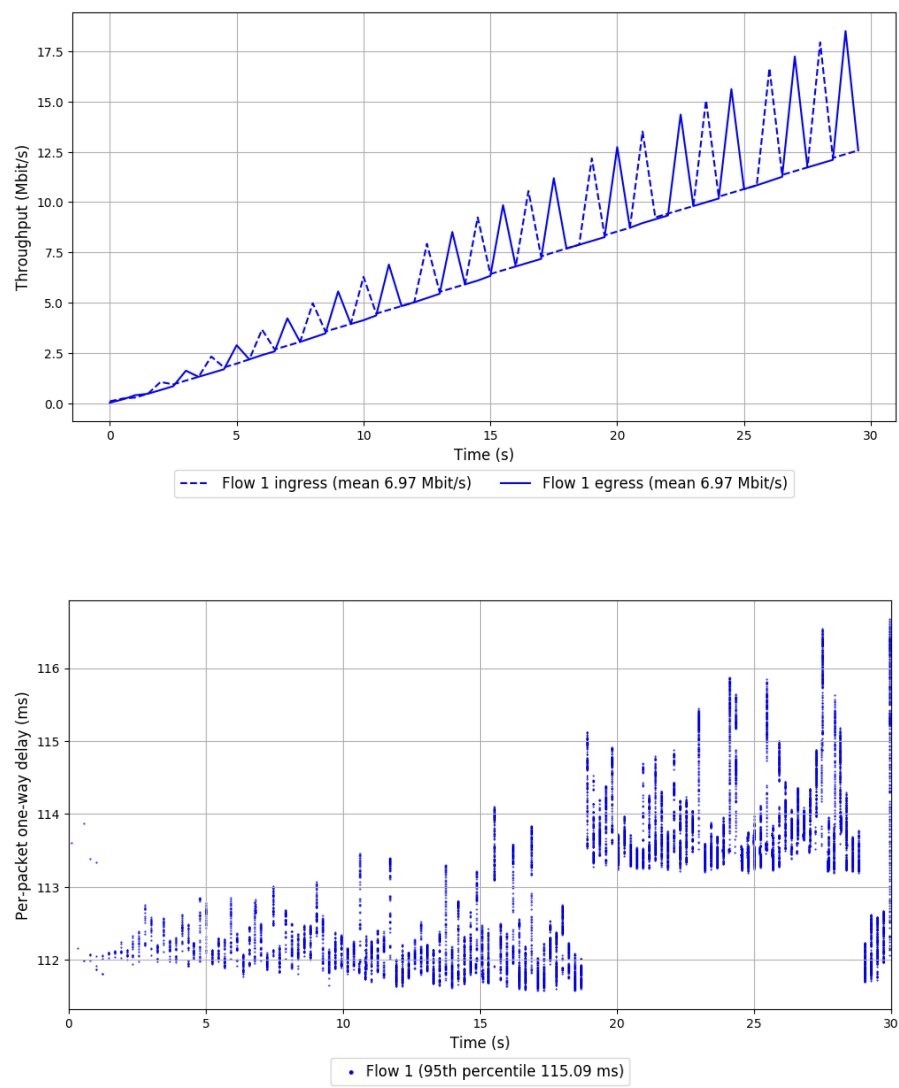
-- Flow 1:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 115.093 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-19 20:23:05

End at: 2018-02-19 20:23:35

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 113.171 ms

Loss rate: 0.00%

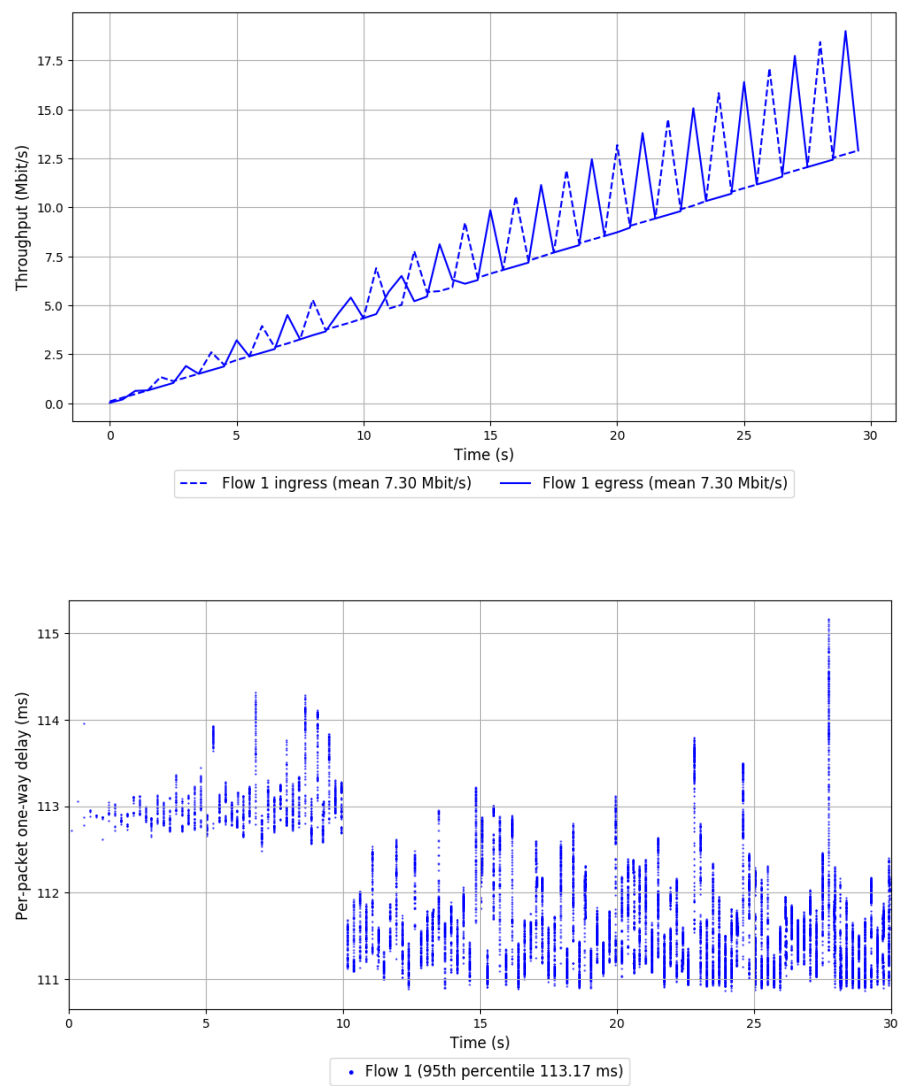
-- Flow 1:

Average throughput: 7.30 Mbit/s

95th percentile per-packet one-way delay: 113.171 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-19 20:38:51

End at: 2018-02-19 20:39:21

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 114.087 ms

Loss rate: 0.00%

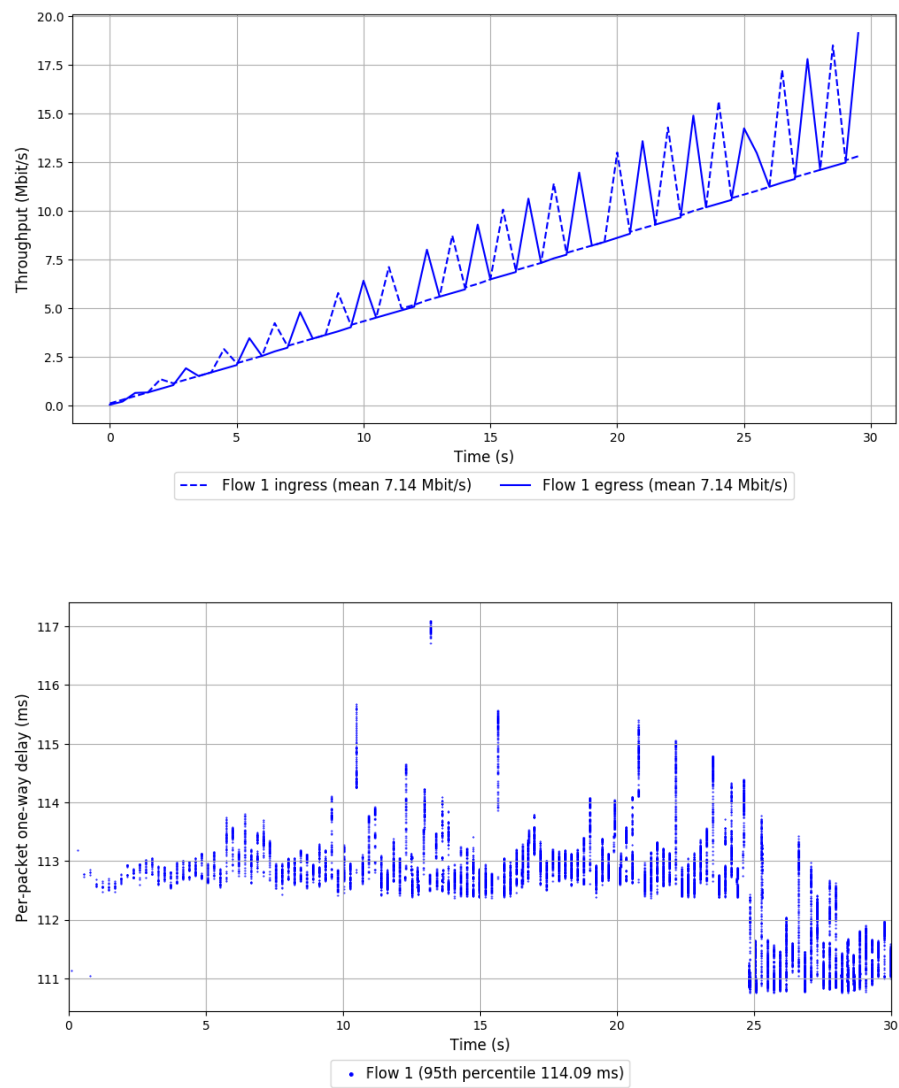
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 114.087 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-19 20:54:11

End at: 2018-02-19 20:54:41

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 114.163 ms

Loss rate: 0.00%

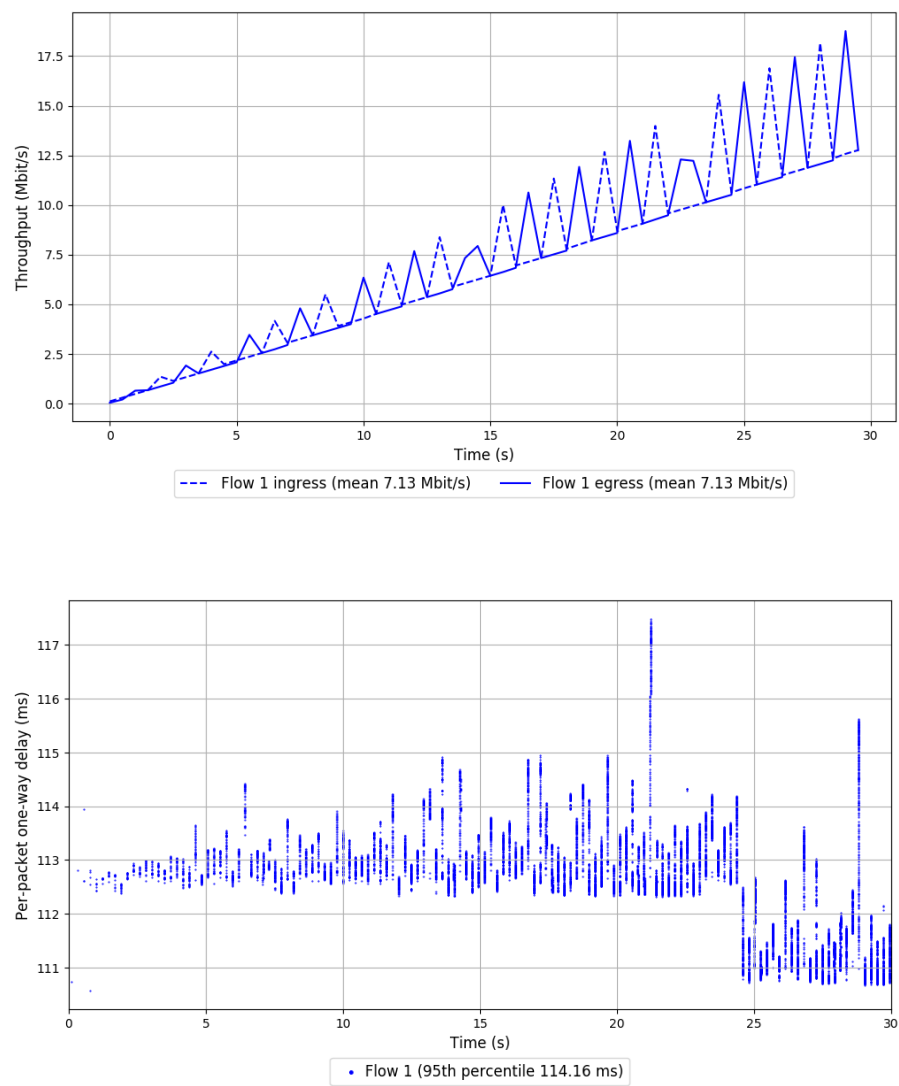
-- Flow 1:

Average throughput: 7.13 Mbit/s

95th percentile per-packet one-way delay: 114.163 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-19 21:09:29

End at: 2018-02-19 21:09:59

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 114.208 ms

Loss rate: 0.00%

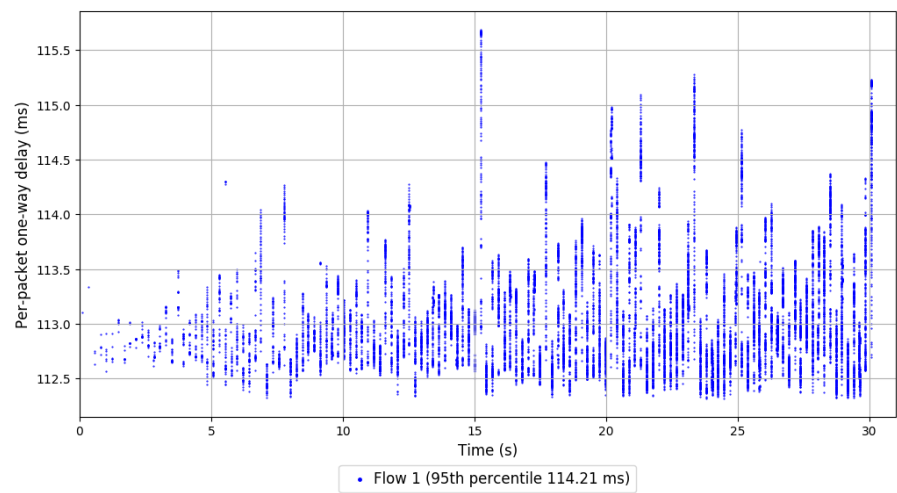
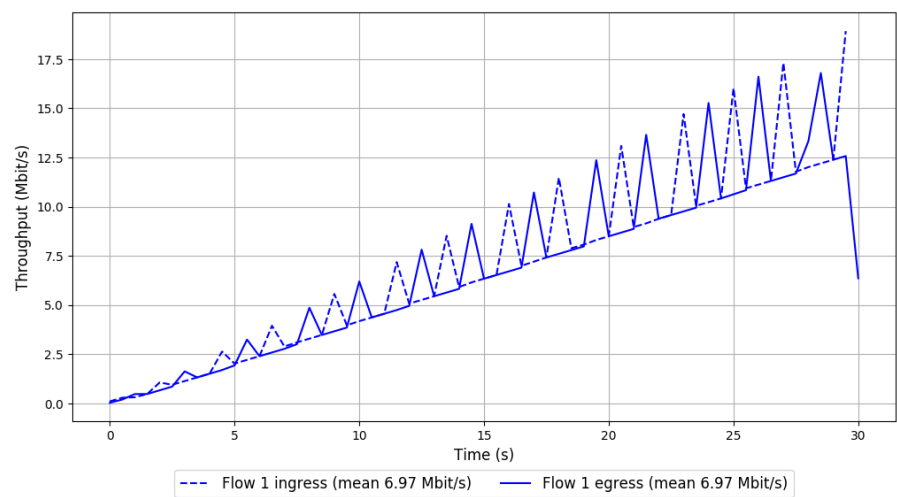
-- Flow 1:

Average throughput: 6.97 Mbit/s

95th percentile per-packet one-way delay: 114.208 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-19 21:24:45

End at: 2018-02-19 21:25:15

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 114.176 ms

Loss rate: 0.00%

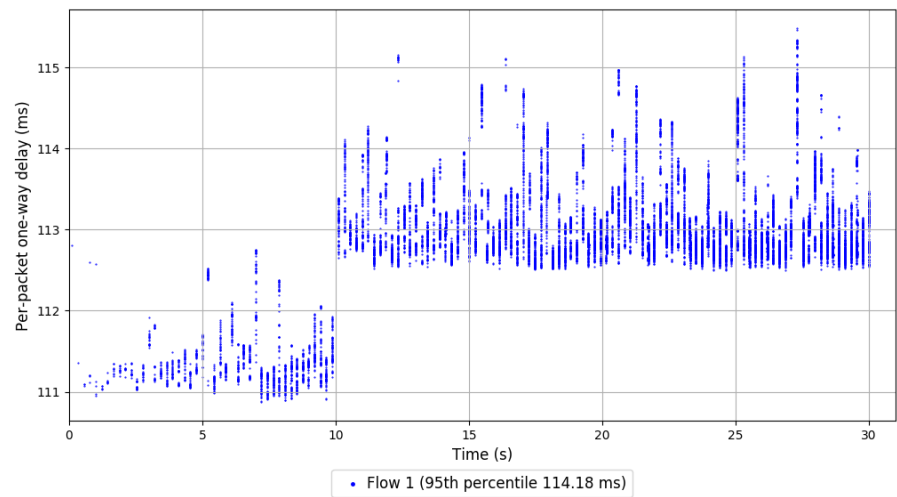
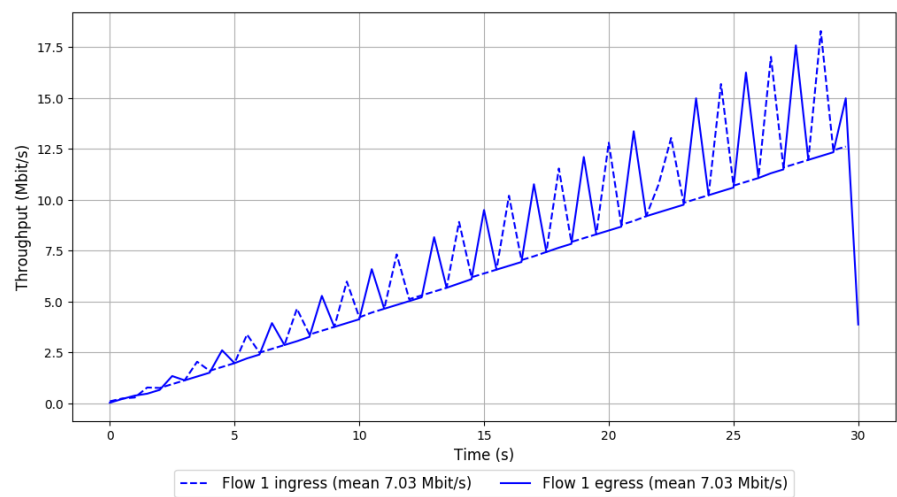
-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 114.176 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-19 21:40:19

End at: 2018-02-19 21:40:49

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 114.307 ms

Loss rate: 0.00%

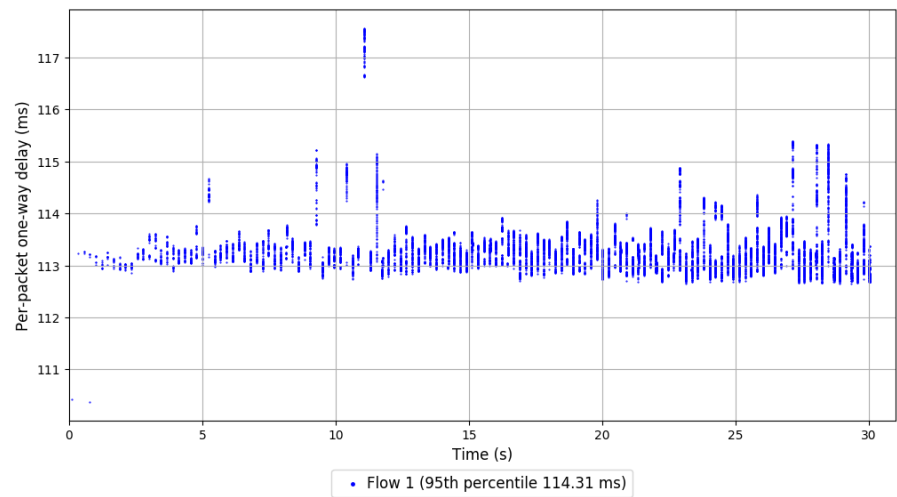
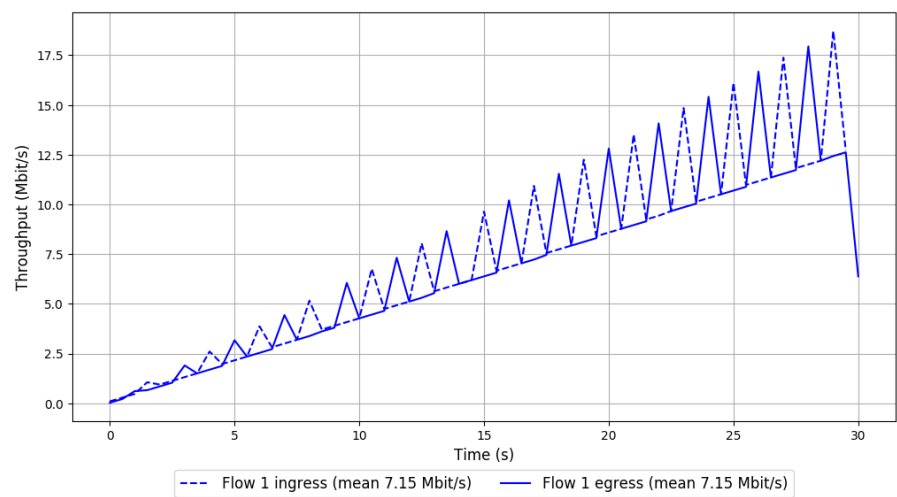
-- Flow 1:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 114.307 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-19 21:56:01

End at: 2018-02-19 21:56:31

Below is generated by plot.py at 2018-02-19 23:28:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 114.267 ms

Loss rate: 0.00%

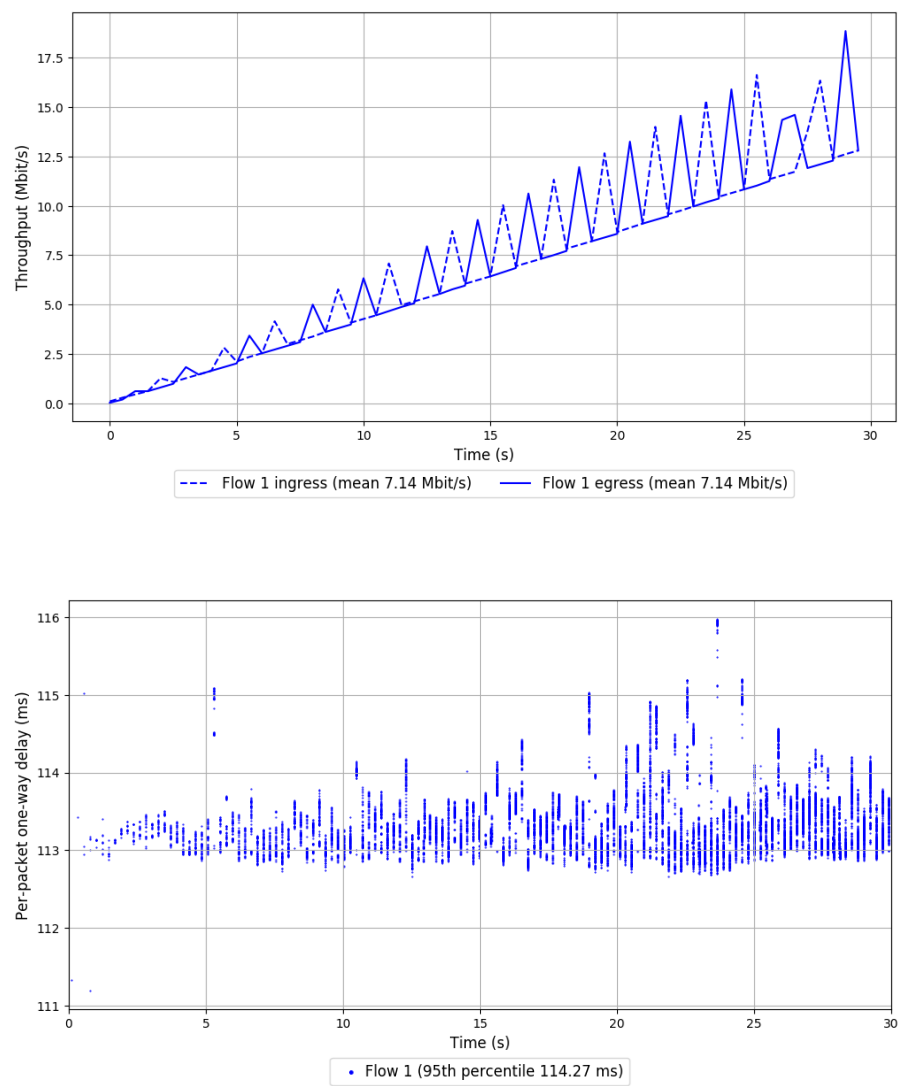
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 114.267 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

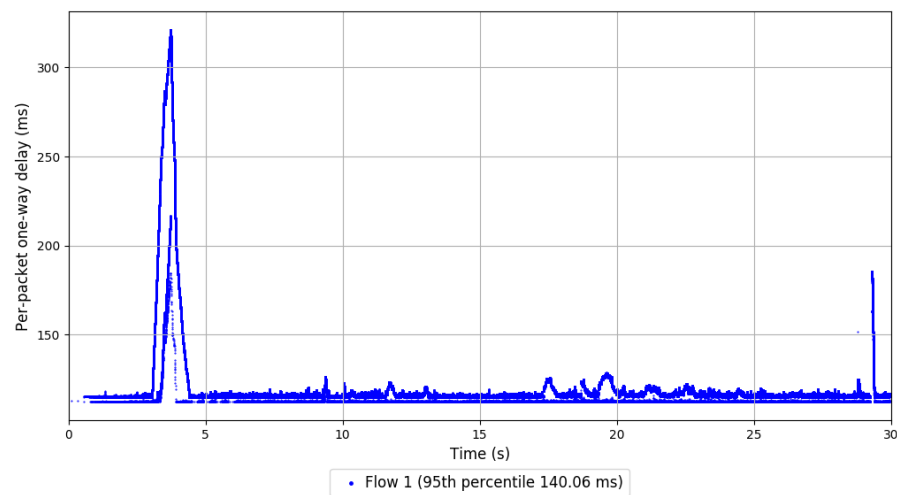
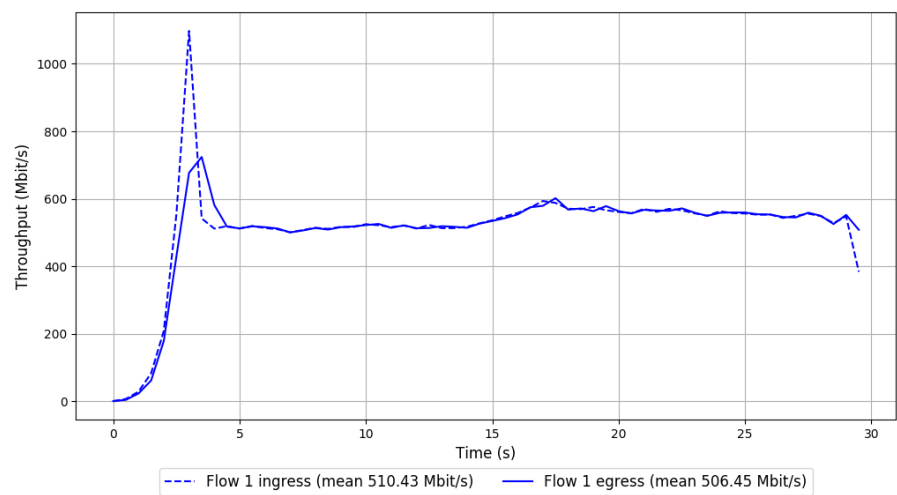


```
Run 1: Statistics of PCC

Start at: 2018-02-19 19:31:42
End at: 2018-02-19 19:32:12

# Below is generated by plot.py at 2018-02-19 23:35:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 506.45 Mbit/s
95th percentile per-packet one-way delay: 140.064 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 506.45 Mbit/s
95th percentile per-packet one-way delay: 140.064 ms
Loss rate: 0.77%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-19 19:47:12

End at: 2018-02-19 19:47:42

Below is generated by plot.py at 2018-02-19 23:35:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.79 Mbit/s

95th percentile per-packet one-way delay: 170.400 ms

Loss rate: 0.88%

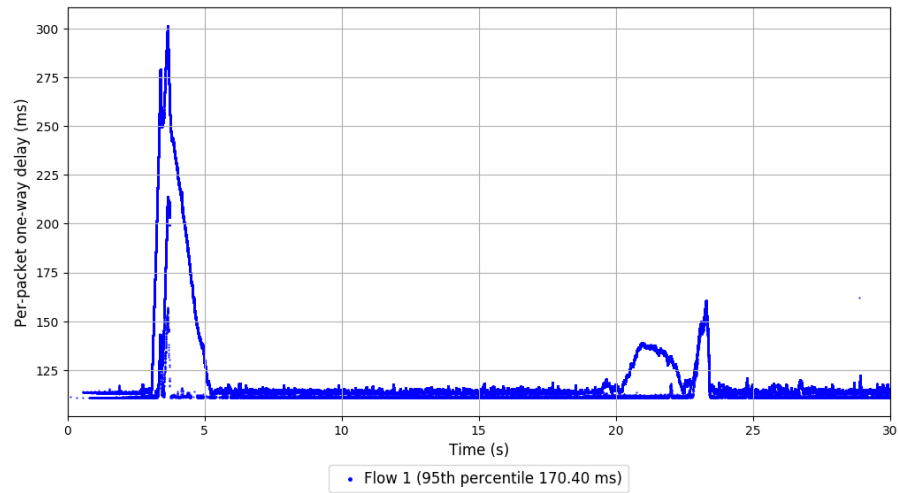
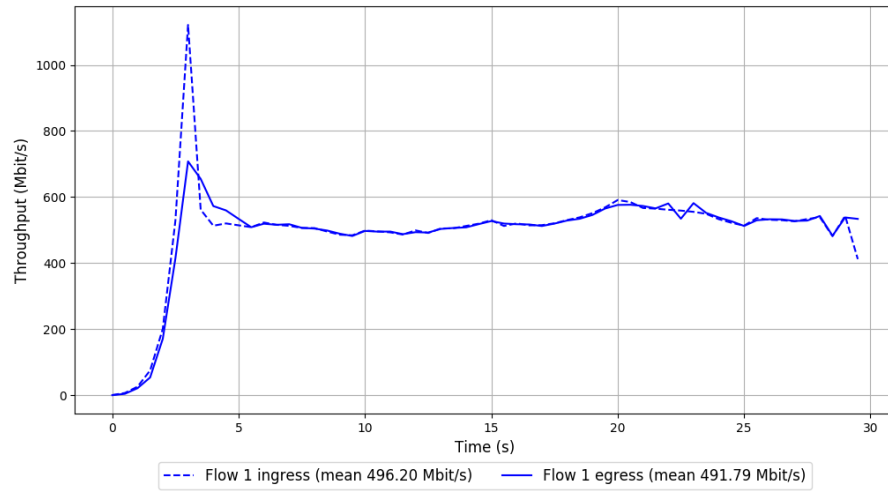
-- Flow 1:

Average throughput: 491.79 Mbit/s

95th percentile per-packet one-way delay: 170.400 ms

Loss rate: 0.88%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-19 20:03:04

End at: 2018-02-19 20:03:34

Below is generated by plot.py at 2018-02-19 23:35:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.33 Mbit/s

95th percentile per-packet one-way delay: 186.523 ms

Loss rate: 1.09%

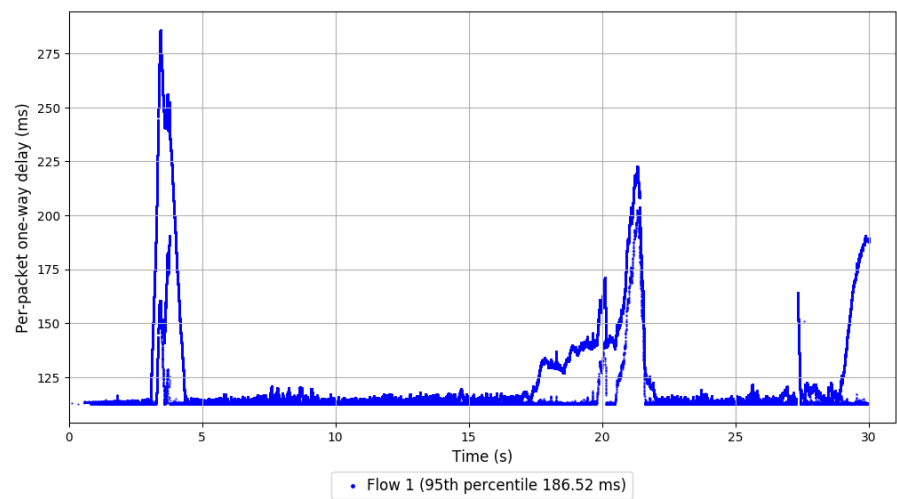
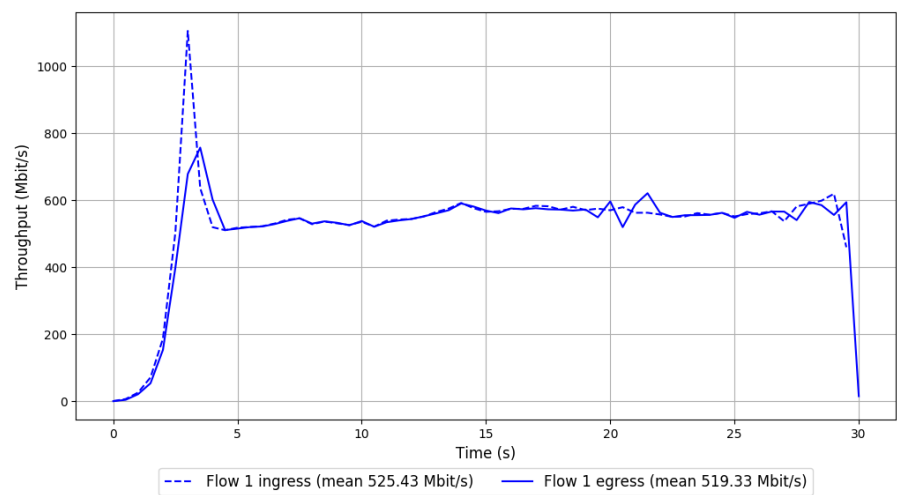
-- Flow 1:

Average throughput: 519.33 Mbit/s

95th percentile per-packet one-way delay: 186.523 ms

Loss rate: 1.09%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-19 20:18:11

End at: 2018-02-19 20:18:41

Below is generated by plot.py at 2018-02-19 23:35:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.55 Mbit/s

95th percentile per-packet one-way delay: 209.704 ms

Loss rate: 1.79%

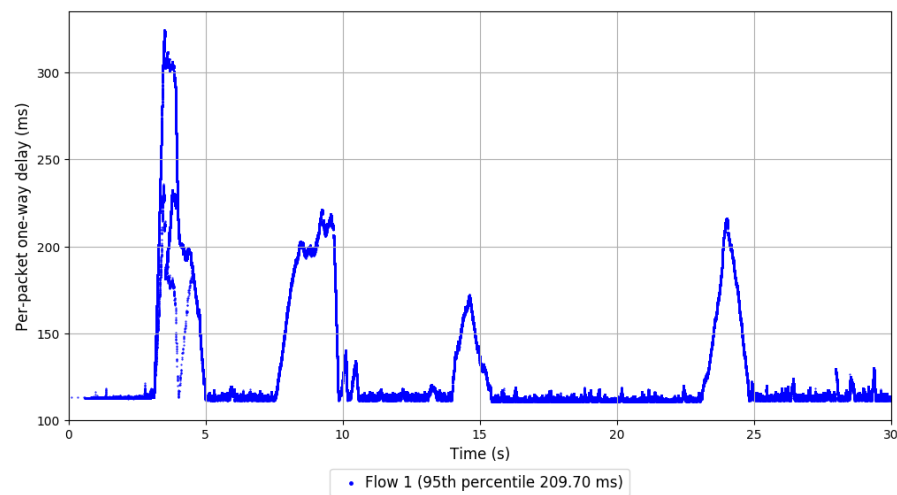
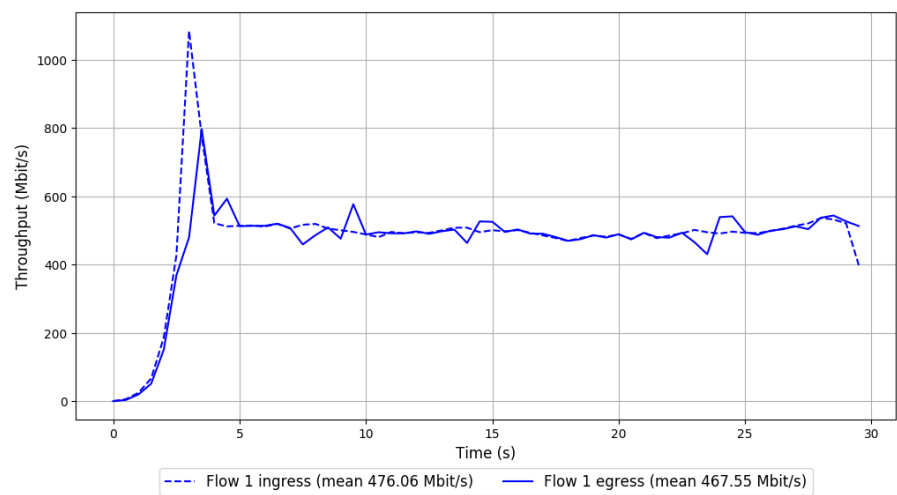
-- Flow 1:

Average throughput: 467.55 Mbit/s

95th percentile per-packet one-way delay: 209.704 ms

Loss rate: 1.79%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-19 20:33:39

End at: 2018-02-19 20:34:09

Below is generated by plot.py at 2018-02-19 23:35:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.12 Mbit/s

95th percentile per-packet one-way delay: 164.935 ms

Loss rate: 0.94%

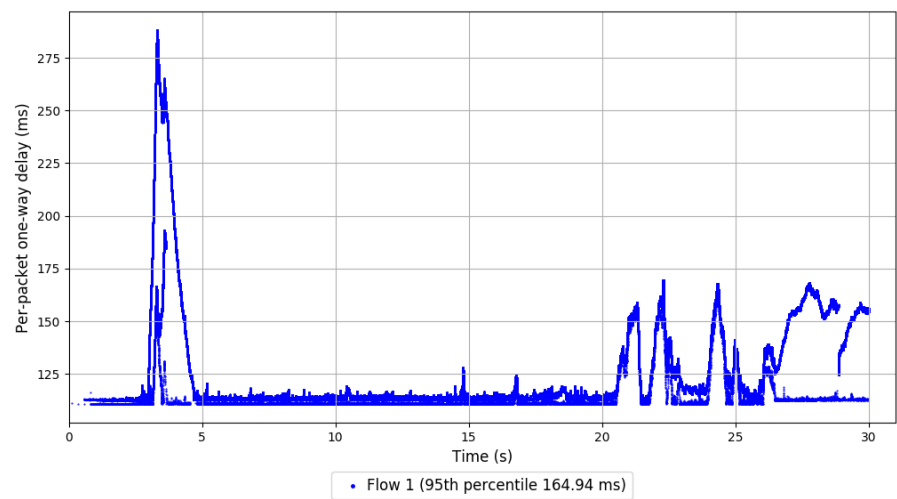
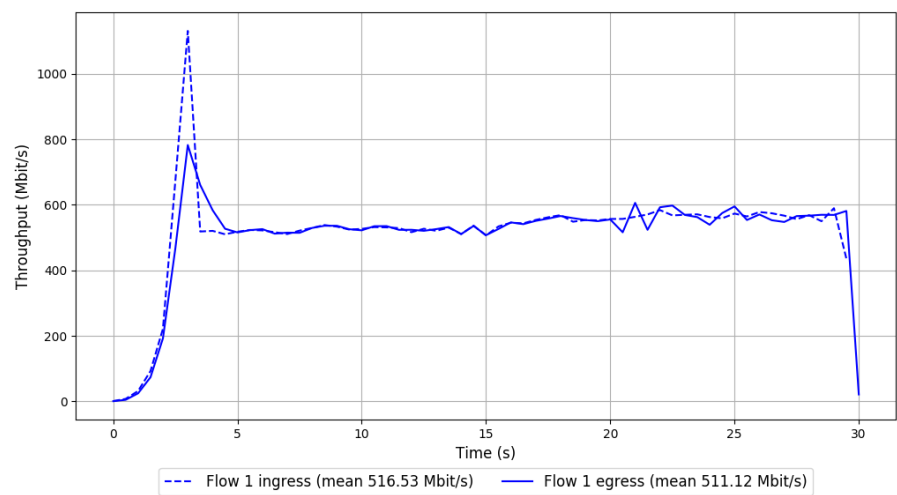
-- Flow 1:

Average throughput: 511.12 Mbit/s

95th percentile per-packet one-way delay: 164.935 ms

Loss rate: 0.94%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-19 20:49:17

End at: 2018-02-19 20:49:47

Below is generated by plot.py at 2018-02-19 23:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 501.58 Mbit/s

95th percentile per-packet one-way delay: 172.324 ms

Loss rate: 0.95%

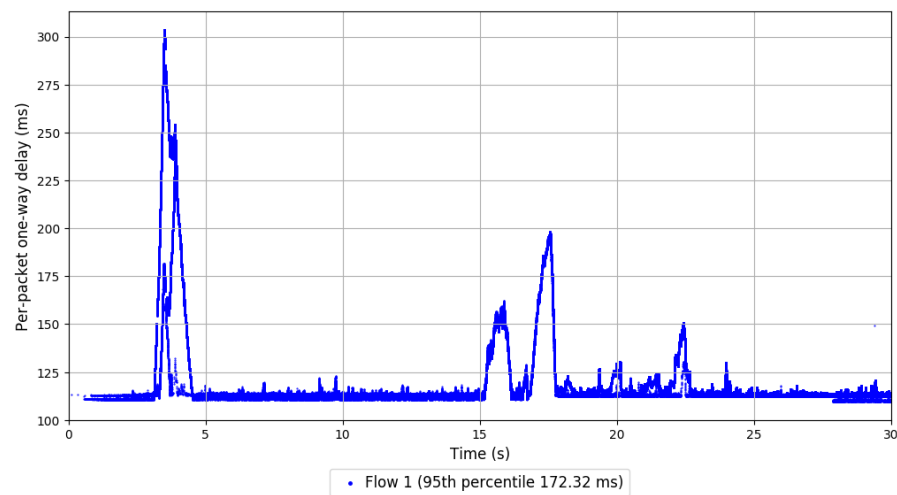
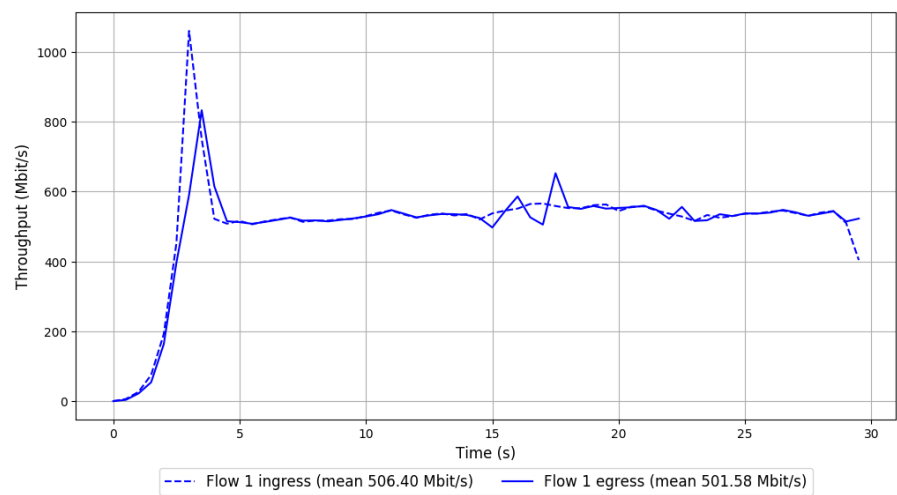
-- Flow 1:

Average throughput: 501.58 Mbit/s

95th percentile per-packet one-way delay: 172.324 ms

Loss rate: 0.95%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-19 21:04:20

End at: 2018-02-19 21:04:50

Below is generated by plot.py at 2018-02-19 23:36:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 481.84 Mbit/s

95th percentile per-packet one-way delay: 257.906 ms

Loss rate: 1.68%

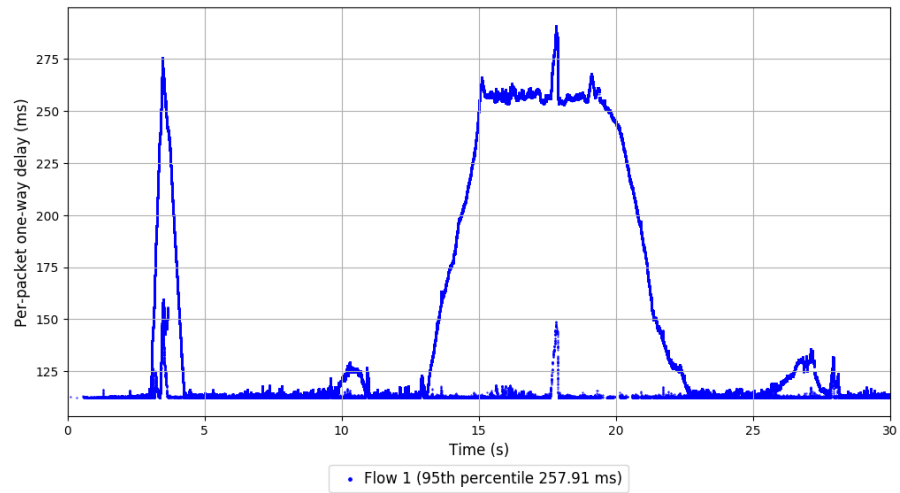
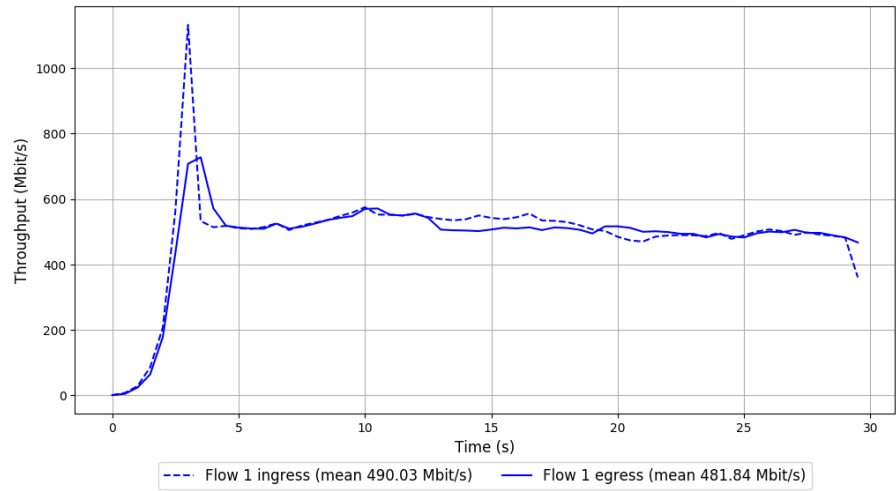
-- Flow 1:

Average throughput: 481.84 Mbit/s

95th percentile per-packet one-way delay: 257.906 ms

Loss rate: 1.68%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-19 21:19:45

End at: 2018-02-19 21:20:15

Below is generated by plot.py at 2018-02-19 23:36:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.57 Mbit/s

95th percentile per-packet one-way delay: 163.193 ms

Loss rate: 0.94%

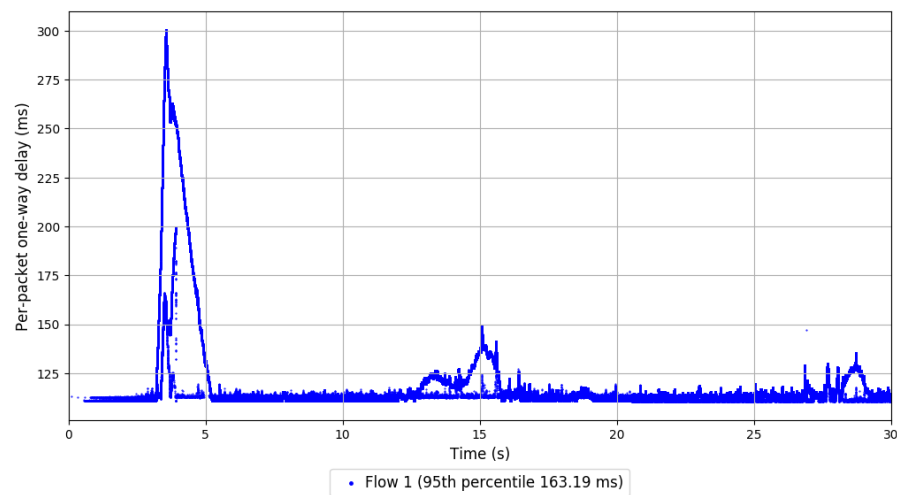
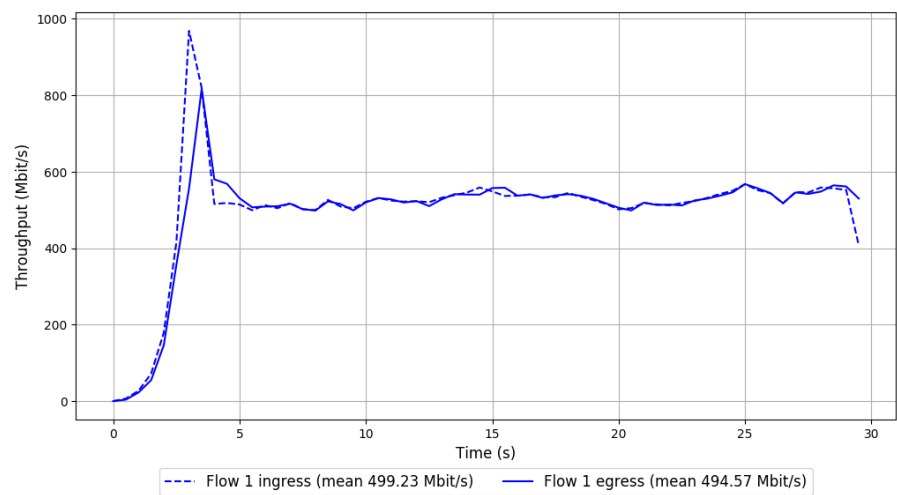
-- Flow 1:

Average throughput: 494.57 Mbit/s

95th percentile per-packet one-way delay: 163.193 ms

Loss rate: 0.94%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-19 21:35:20

End at: 2018-02-19 21:35:50

Below is generated by plot.py at 2018-02-19 23:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.13 Mbit/s

95th percentile per-packet one-way delay: 211.996 ms

Loss rate: 0.77%

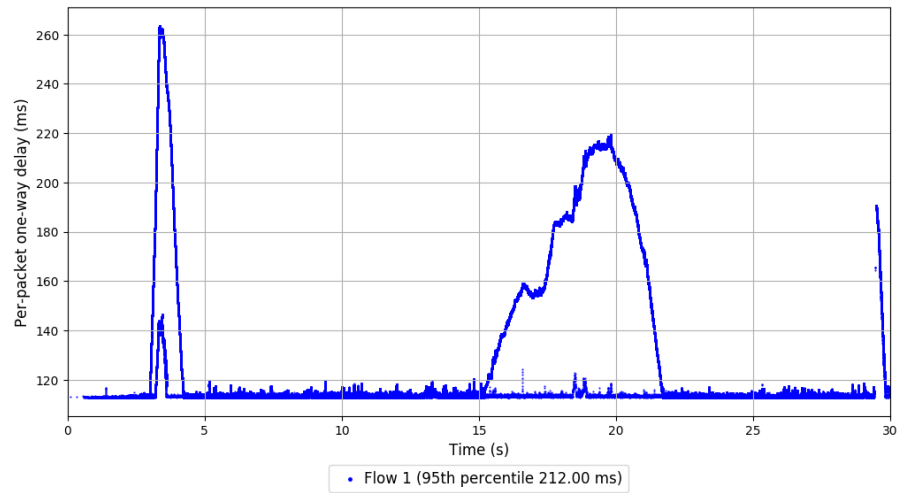
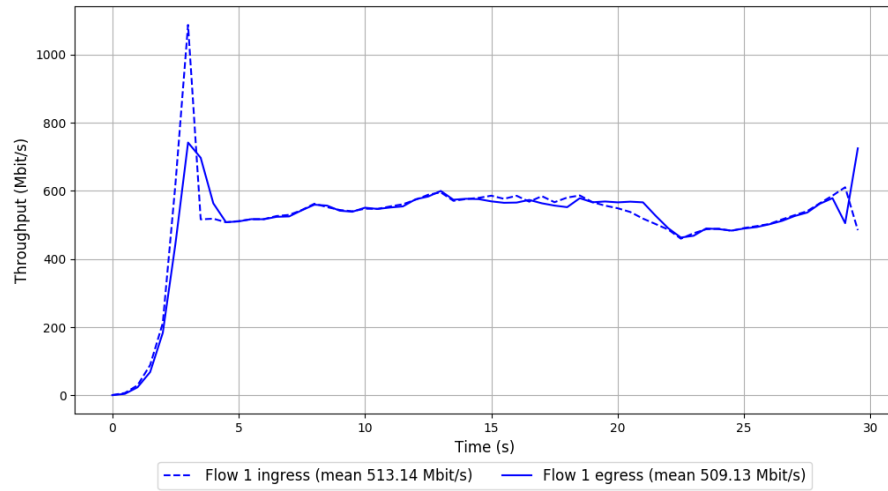
-- Flow 1:

Average throughput: 509.13 Mbit/s

95th percentile per-packet one-way delay: 211.996 ms

Loss rate: 0.77%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-19 21:50:56

End at: 2018-02-19 21:51:26

Below is generated by plot.py at 2018-02-19 23:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.87 Mbit/s

95th percentile per-packet one-way delay: 180.874 ms

Loss rate: 0.86%

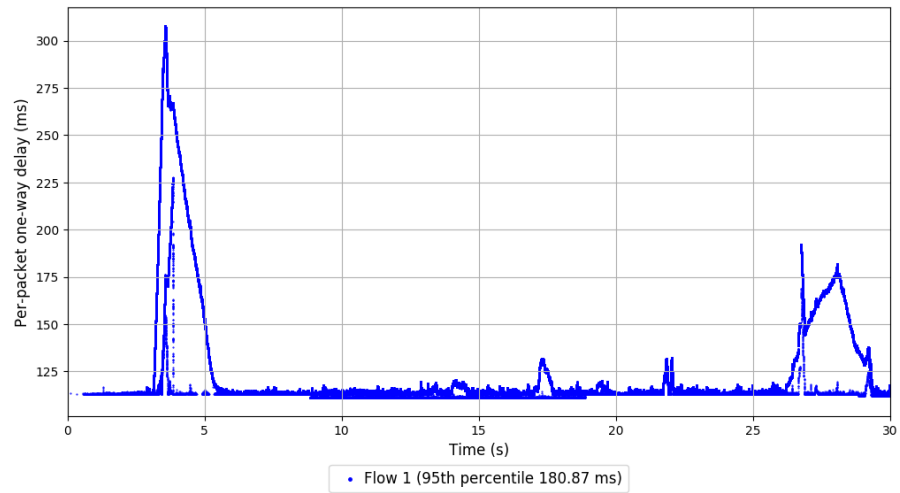
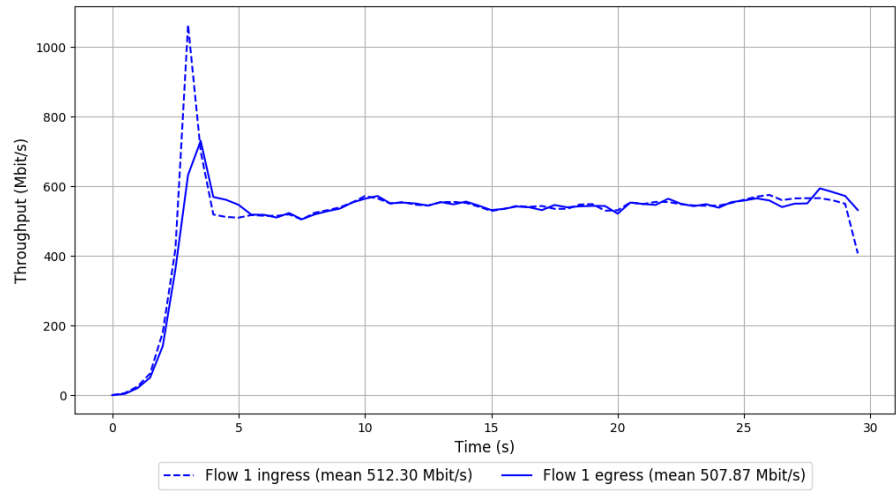
-- Flow 1:

Average throughput: 507.87 Mbit/s

95th percentile per-packet one-way delay: 180.874 ms

Loss rate: 0.86%

Run 10: Report of PCC — Data Link

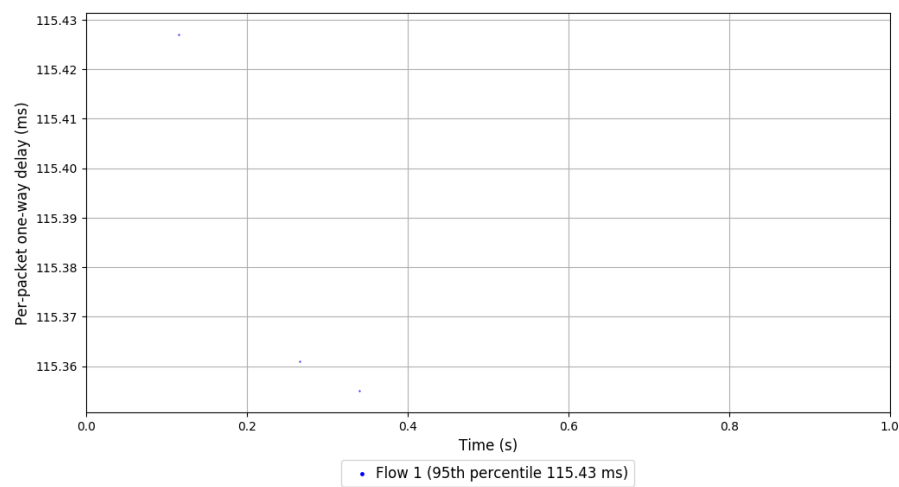
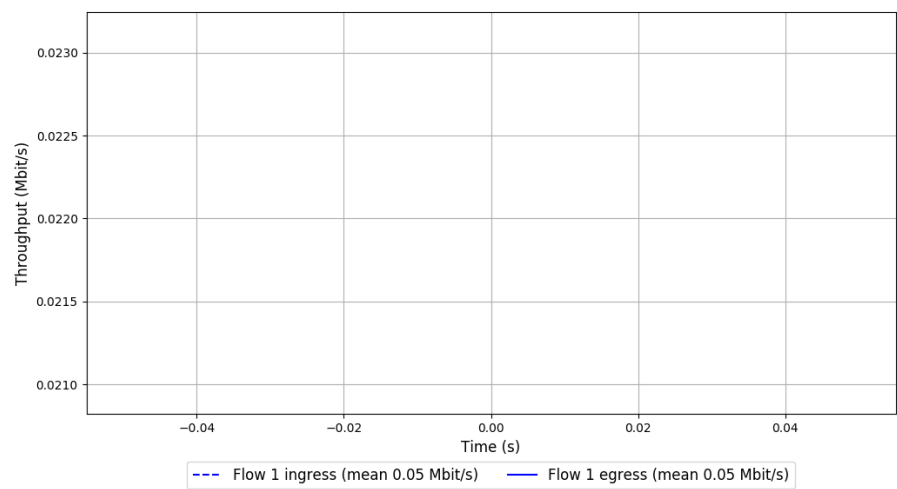


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-19 19:34:16

End at: 2018-02-19 19:34:46

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-19 19:49:54

End at: 2018-02-19 19:50:24

Below is generated by plot.py at 2018-02-19 23:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 113.438 ms

Loss rate: 0.01%

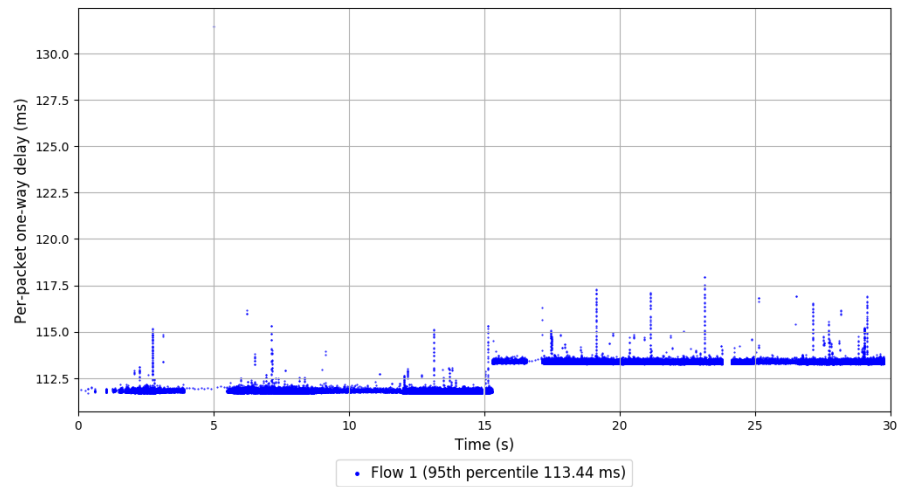
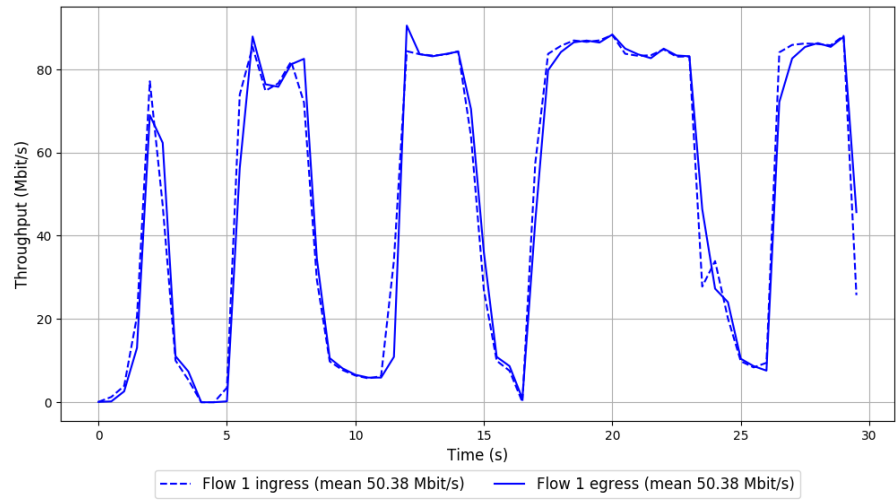
-- Flow 1:

Average throughput: 50.38 Mbit/s

95th percentile per-packet one-way delay: 113.438 ms

Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-19 20:05:39

End at: 2018-02-19 20:06:09

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.47 Mbit/s

95th percentile per-packet one-way delay: 113.369 ms

Loss rate: 0.00%

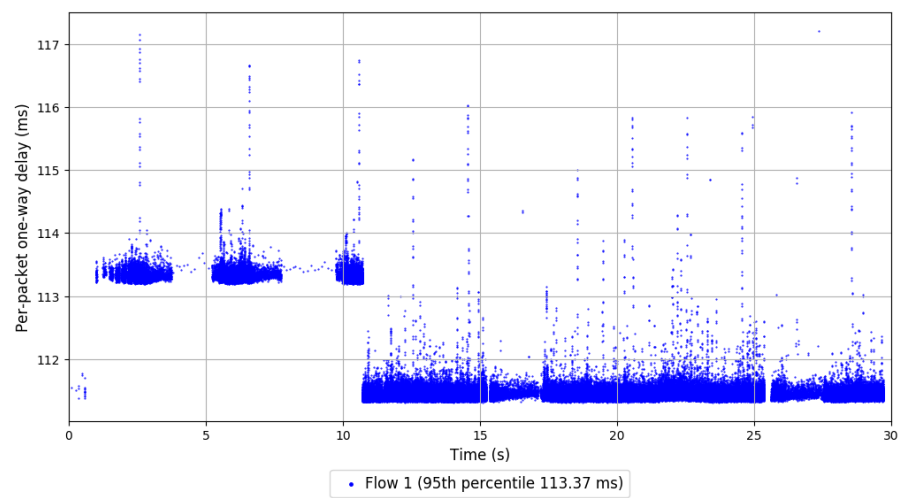
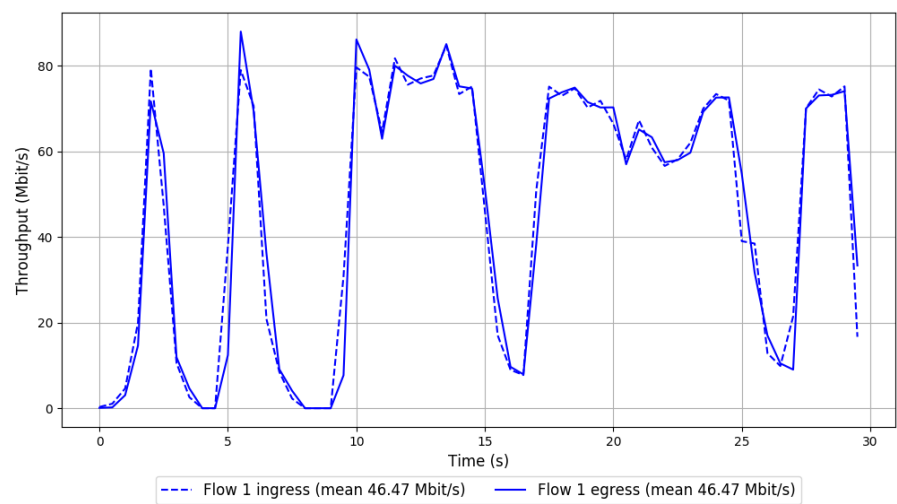
-- Flow 1:

Average throughput: 46.47 Mbit/s

95th percentile per-packet one-way delay: 113.369 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-19 20:20:38

End at: 2018-02-19 20:21:08

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.11 Mbit/s

95th percentile per-packet one-way delay: 112.733 ms

Loss rate: 0.00%

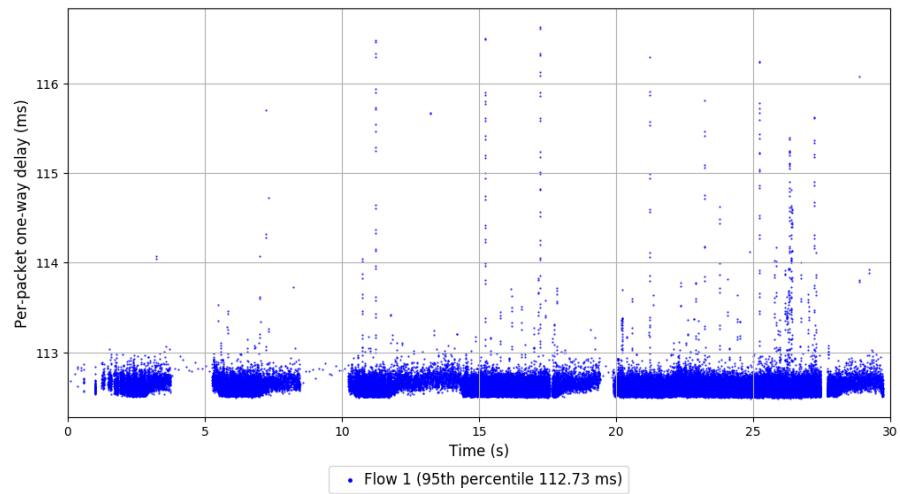
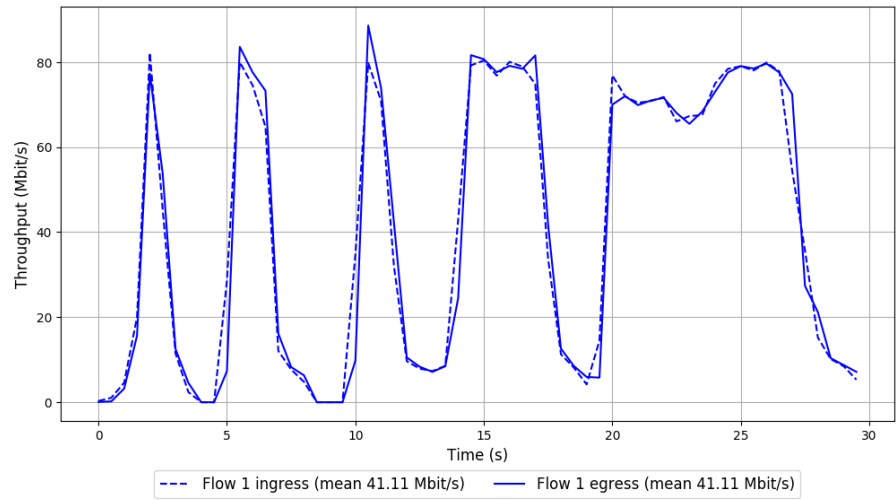
-- Flow 1:

Average throughput: 41.11 Mbit/s

95th percentile per-packet one-way delay: 112.733 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-19 20:36:22

End at: 2018-02-19 20:36:52

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.86 Mbit/s

95th percentile per-packet one-way delay: 111.632 ms

Loss rate: 0.00%

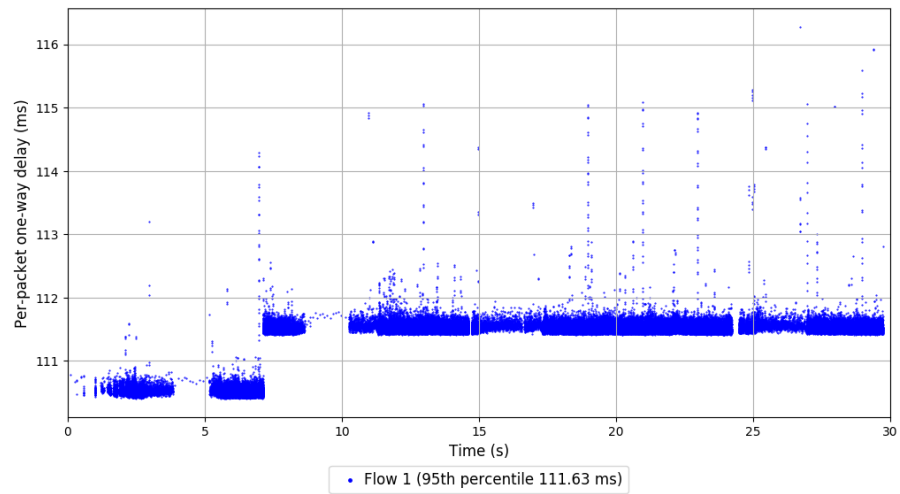
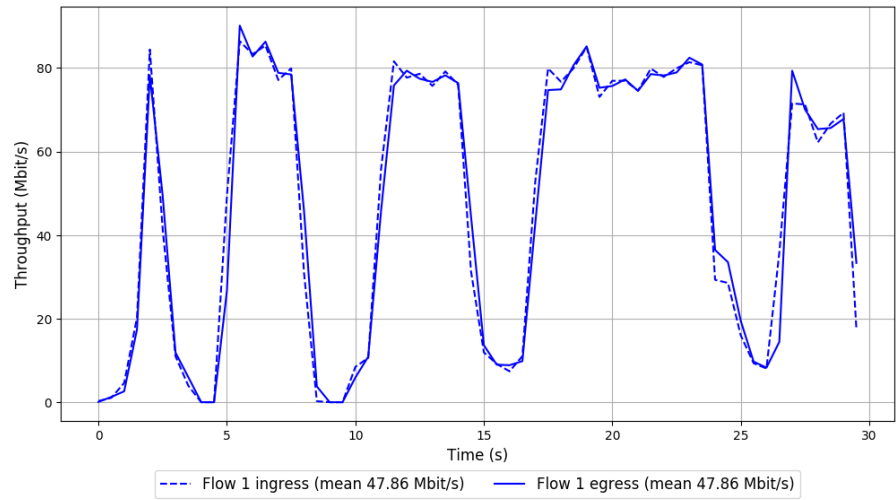
-- Flow 1:

Average throughput: 47.86 Mbit/s

95th percentile per-packet one-way delay: 111.632 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-19 20:51:43

End at: 2018-02-19 20:52:13

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 112.397 ms

Loss rate: 0.00%

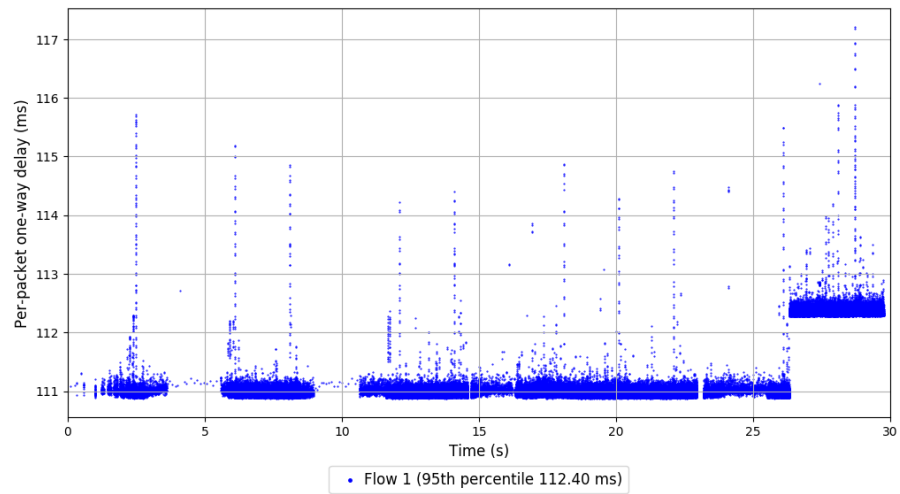
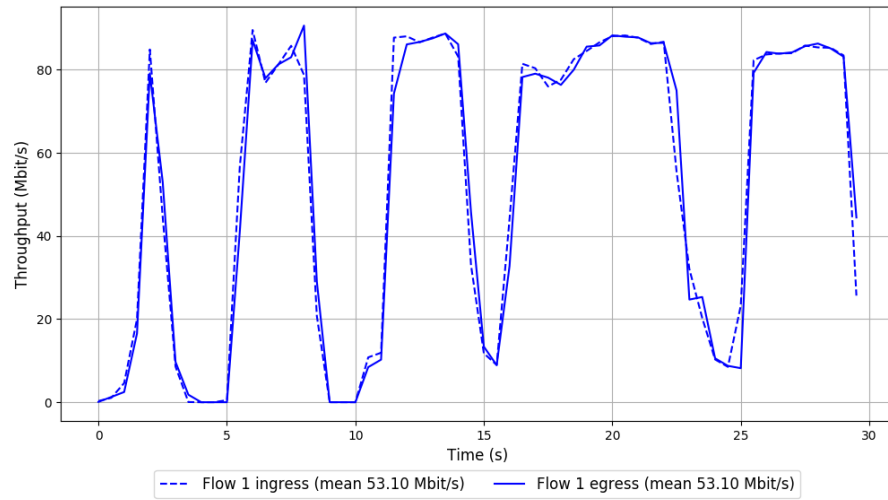
-- Flow 1:

Average throughput: 53.10 Mbit/s

95th percentile per-packet one-way delay: 112.397 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-19 21:07:01

End at: 2018-02-19 21:07:31

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.90 Mbit/s

95th percentile per-packet one-way delay: 112.326 ms

Loss rate: 0.00%

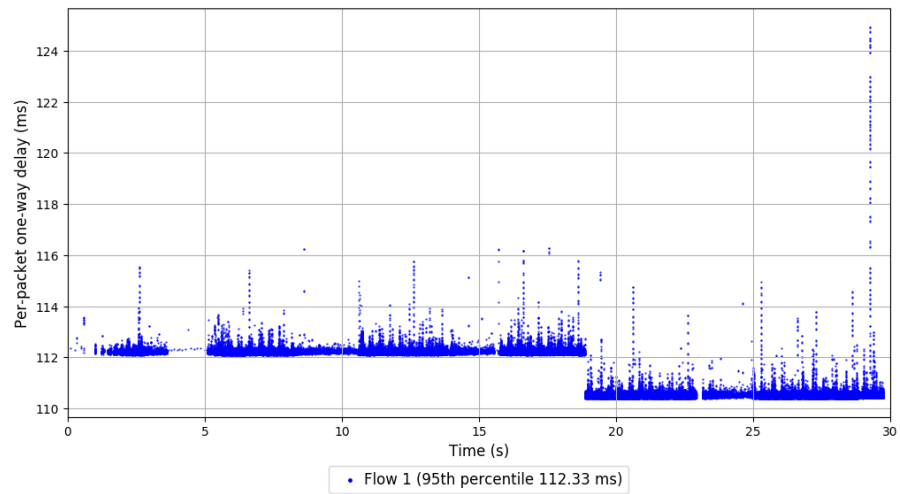
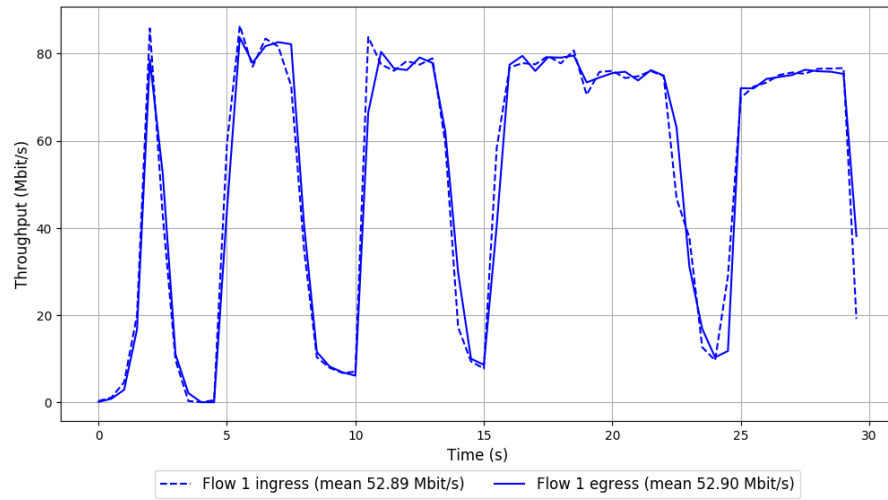
-- Flow 1:

Average throughput: 52.90 Mbit/s

95th percentile per-packet one-way delay: 112.326 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-19 21:22:17

End at: 2018-02-19 21:22:47

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 112.539 ms

Loss rate: 0.00%

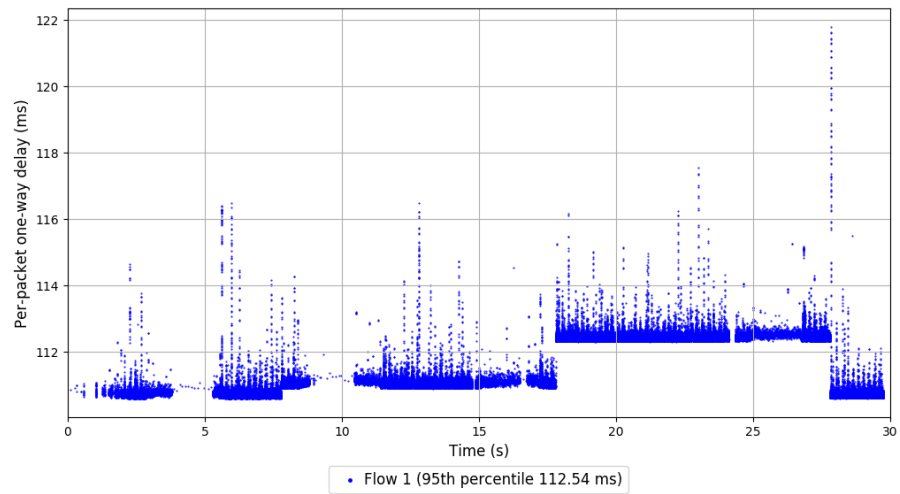
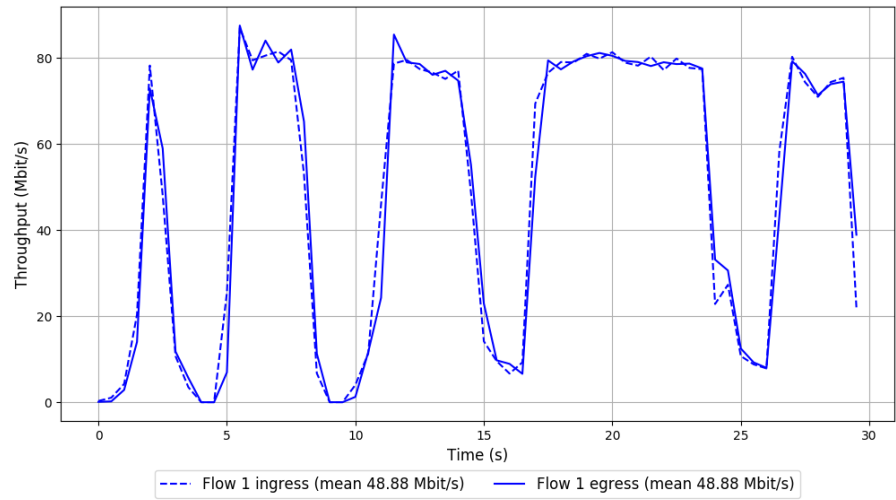
-- Flow 1:

Average throughput: 48.88 Mbit/s

95th percentile per-packet one-way delay: 112.539 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link

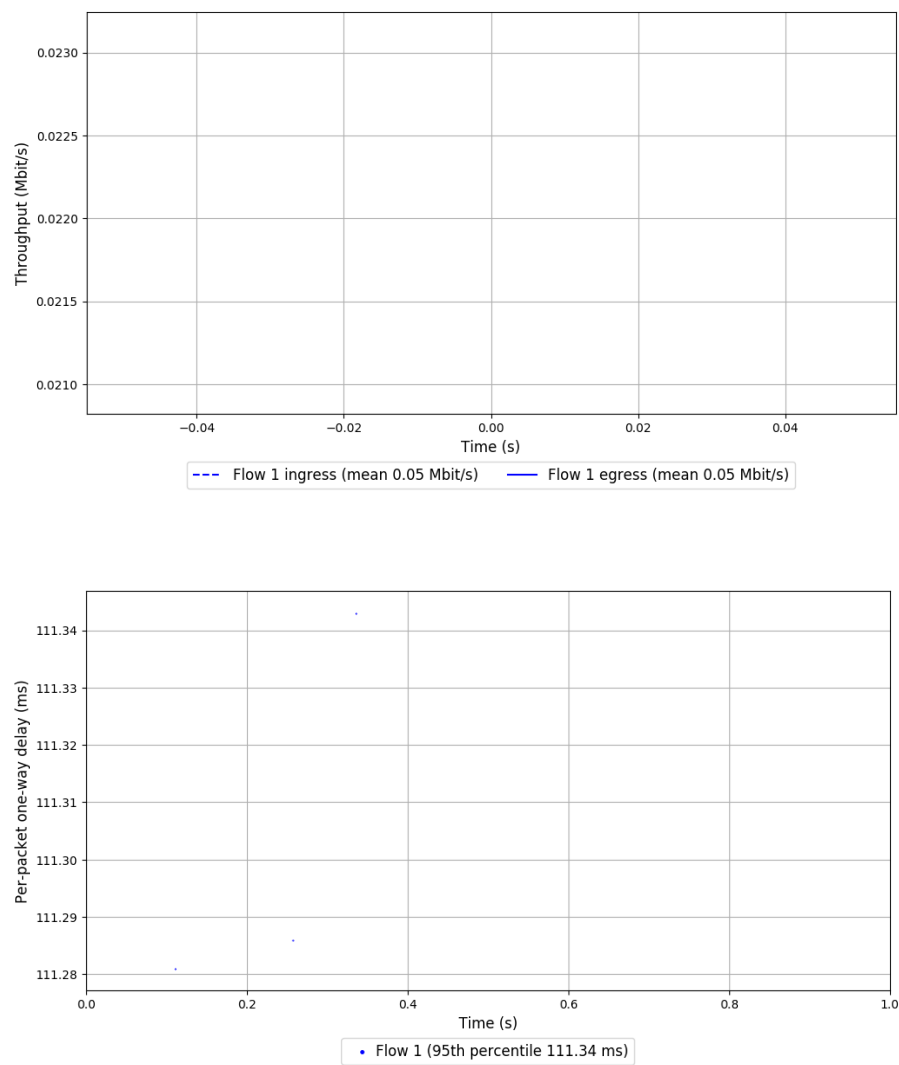


Run 9: Statistics of QUIC Cubic

Start at: 2018-02-19 21:37:54

End at: 2018-02-19 21:38:24

Run 9: Report of QUIC Cubic — Data Link

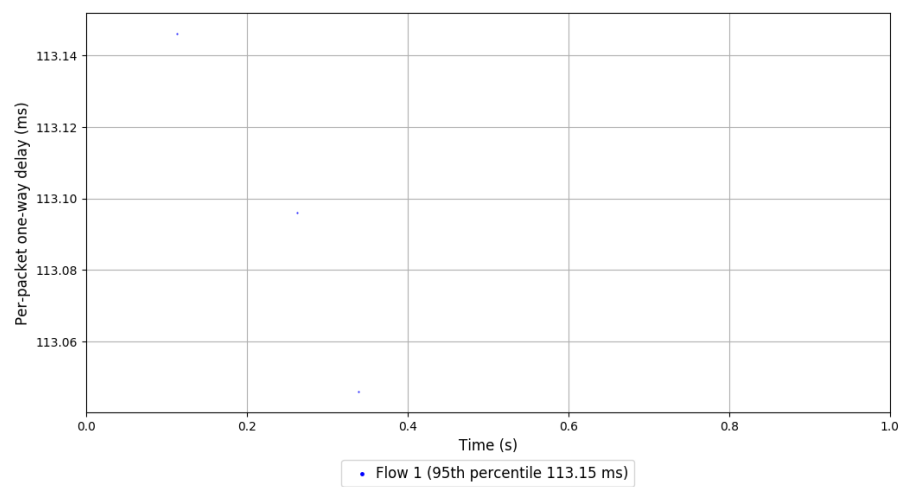
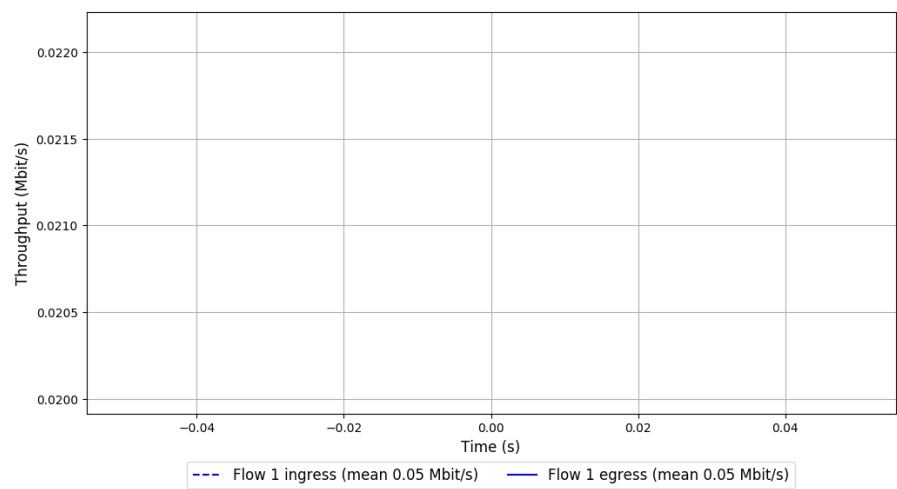


Run 10: Statistics of QUIC Cubic

Start at: 2018-02-19 21:53:37

End at: 2018-02-19 21:54:07

Run 10: Report of QUIC Cubic — Data Link

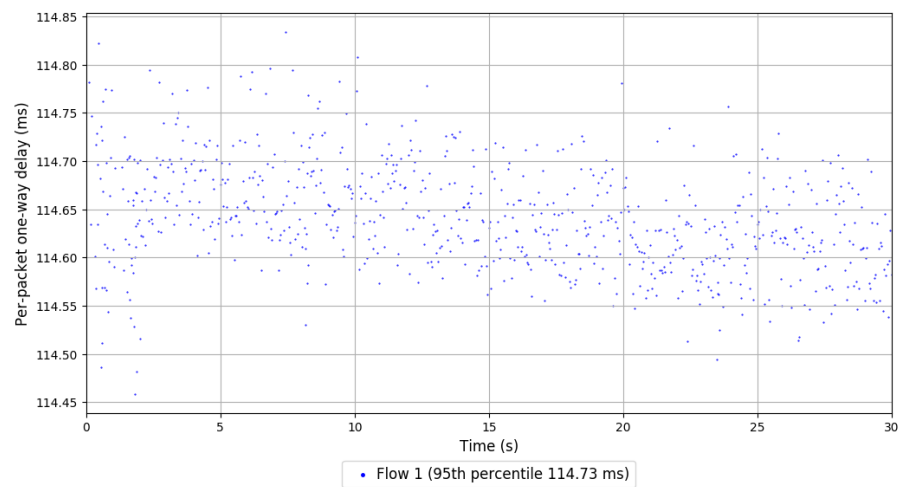
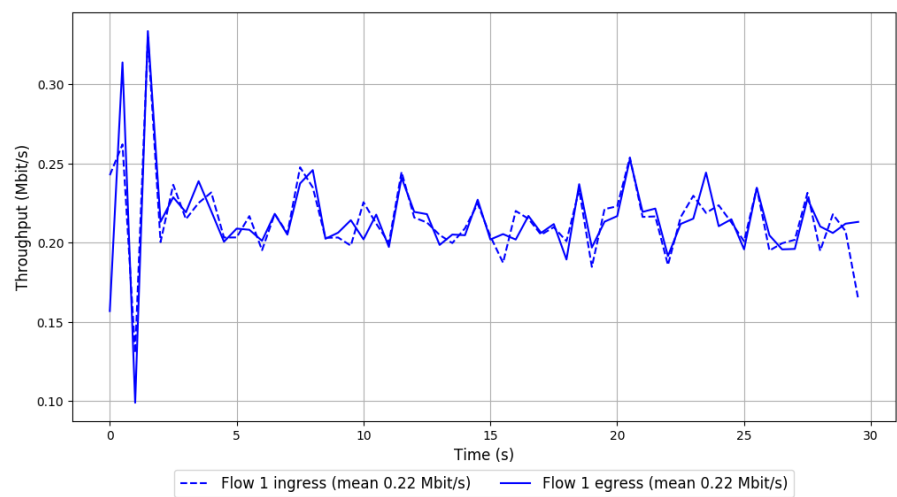


```
Run 1: Statistics of SCReAM

Start at: 2018-02-19 19:40:14
End at: 2018-02-19 19:40:44

# Below is generated by plot.py at 2018-02-19 23:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.730 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.730 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-19 19:55:59

End at: 2018-02-19 19:56:29

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.511 ms

Loss rate: 0.00%

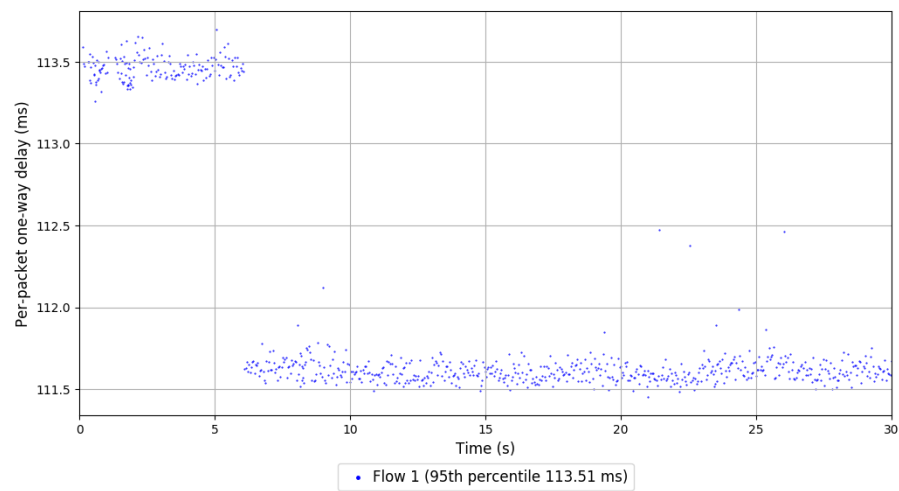
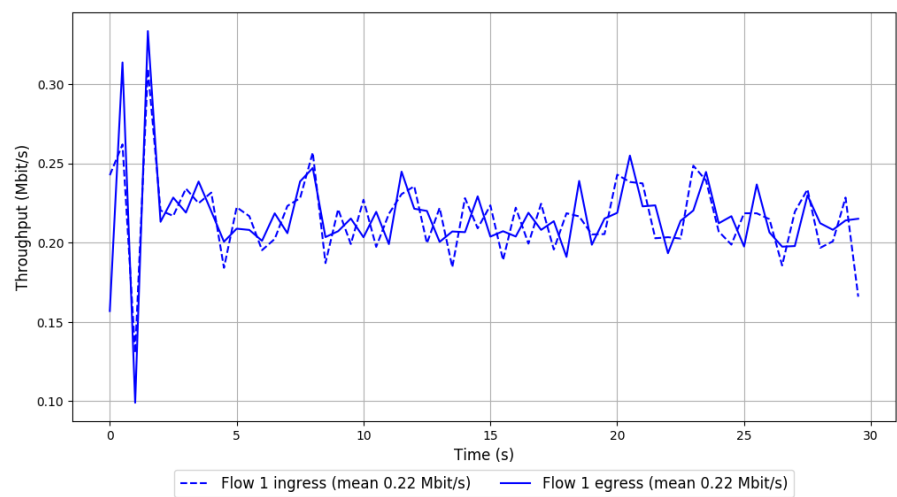
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.511 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-19 20:11:42

End at: 2018-02-19 20:12:12

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.499 ms

Loss rate: 0.00%

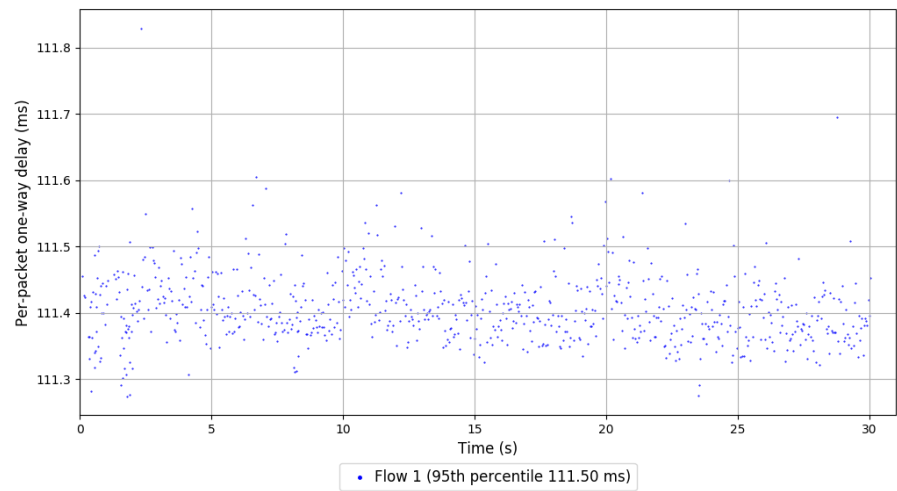
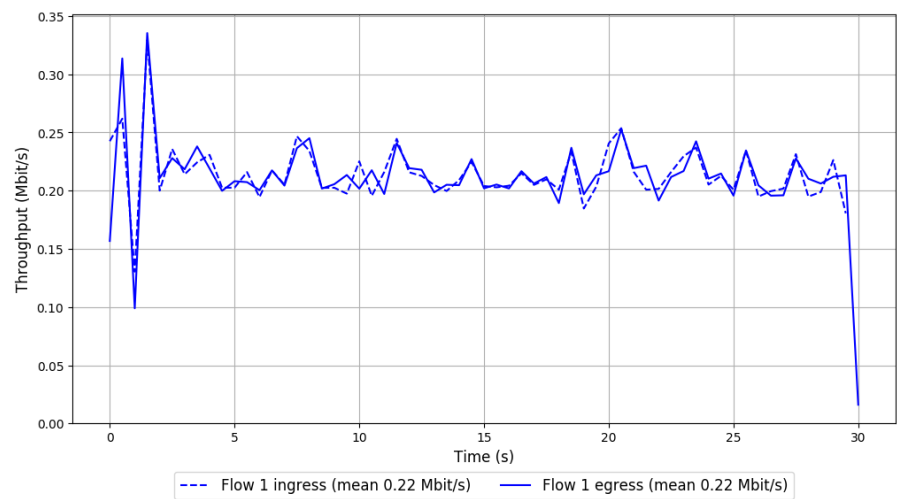
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.499 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-19 20:26:42

End at: 2018-02-19 20:27:12

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.895 ms

Loss rate: 0.00%

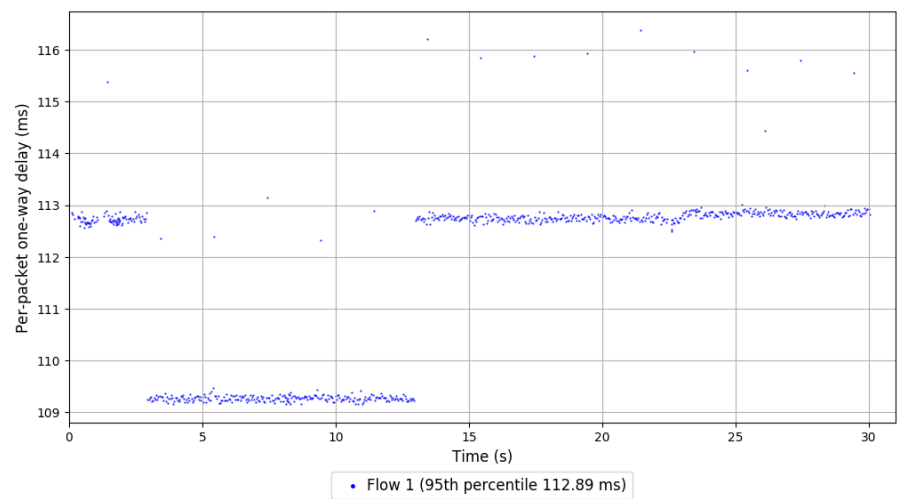
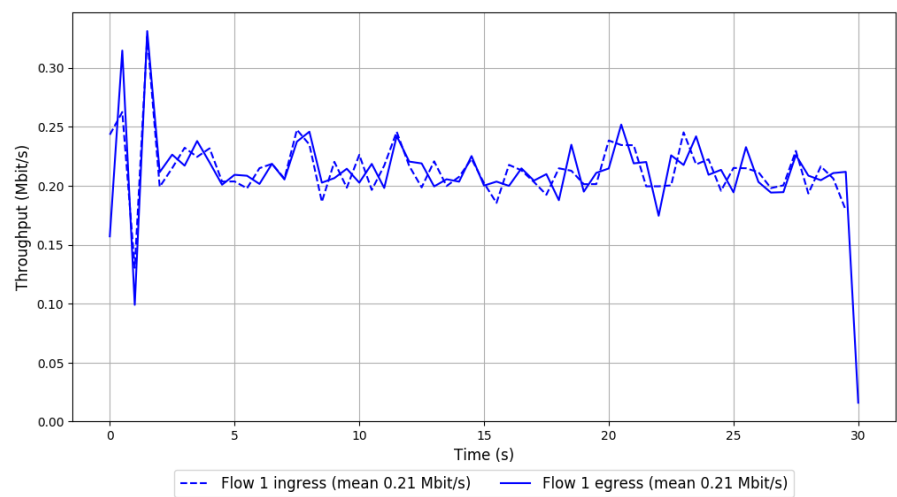
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.895 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-19 20:42:26

End at: 2018-02-19 20:42:56

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.661 ms

Loss rate: 0.00%

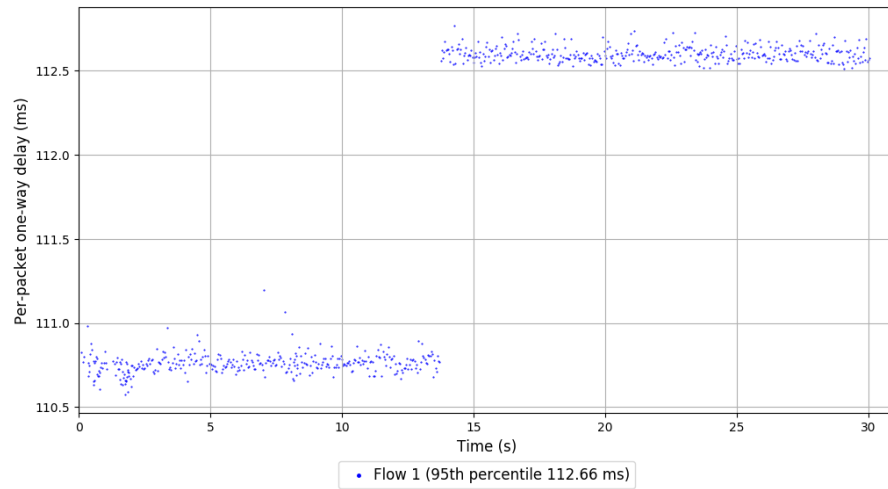
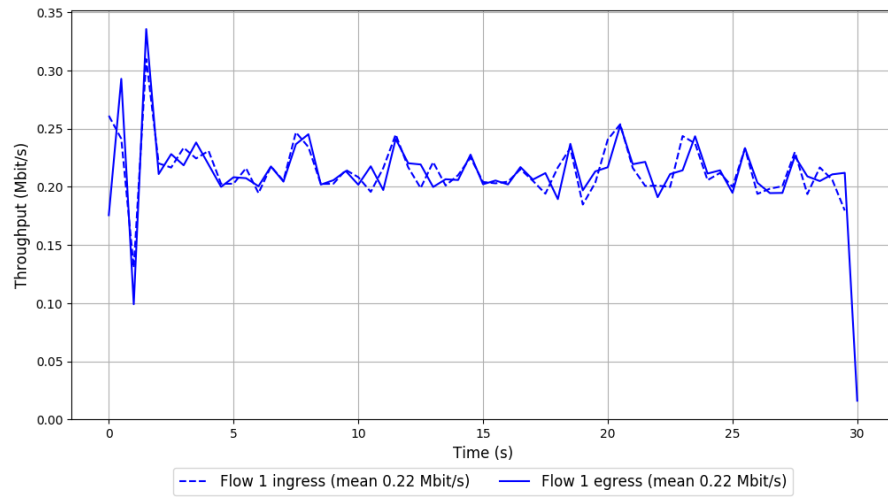
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.661 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-19 20:57:48

End at: 2018-02-19 20:58:18

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.703 ms

Loss rate: 0.00%

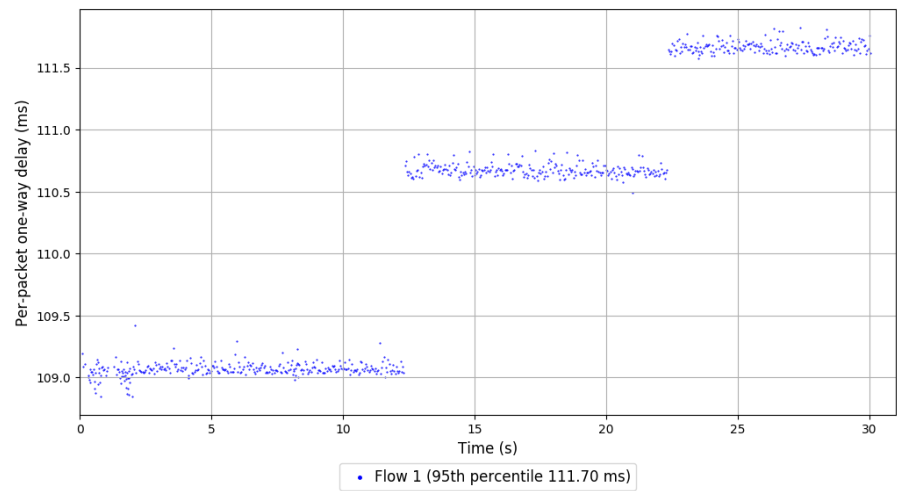
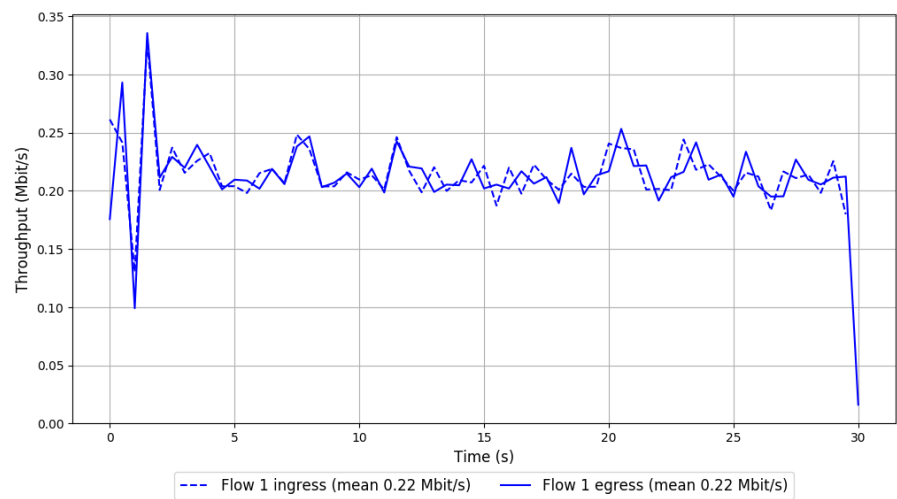
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.703 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-19 21:13:05

End at: 2018-02-19 21:13:35

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.460 ms

Loss rate: 0.00%

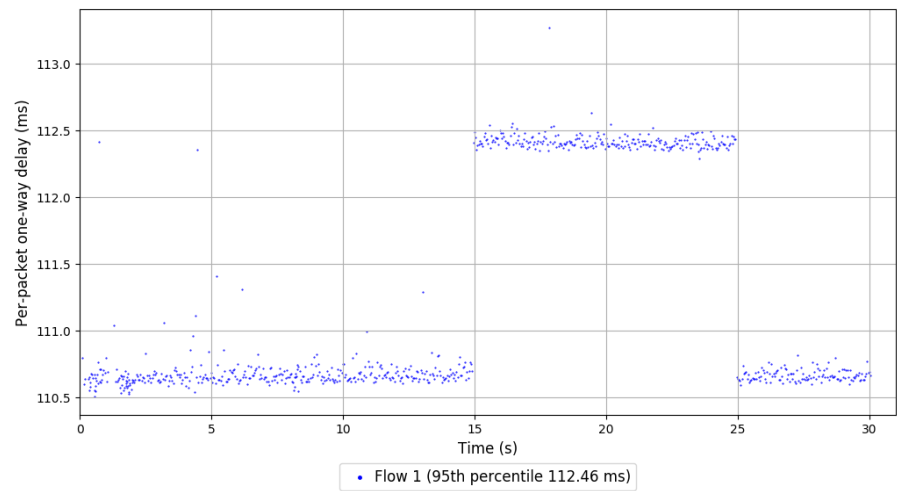
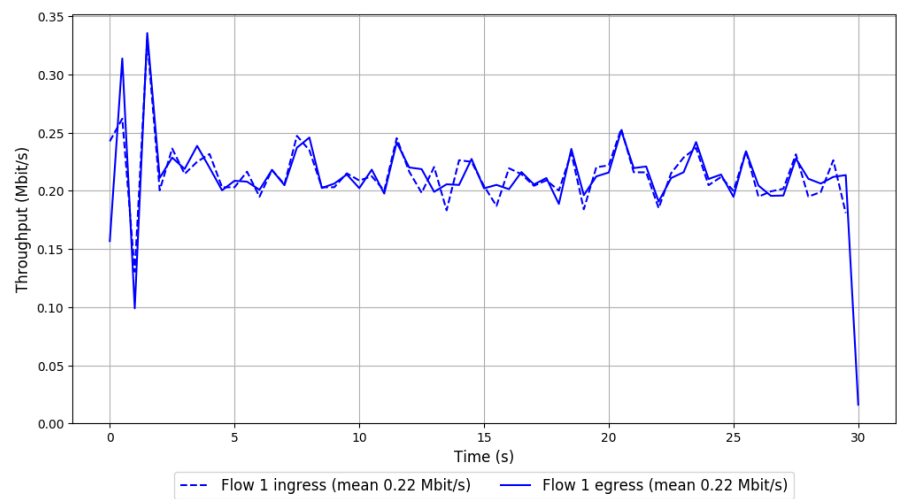
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.460 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-19 21:28:21

End at: 2018-02-19 21:28:52

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 113.440 ms

Loss rate: 0.00%

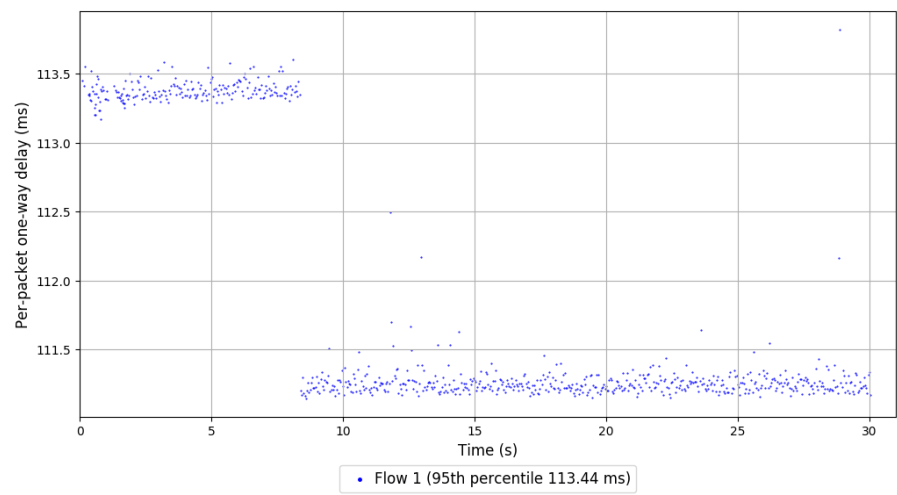
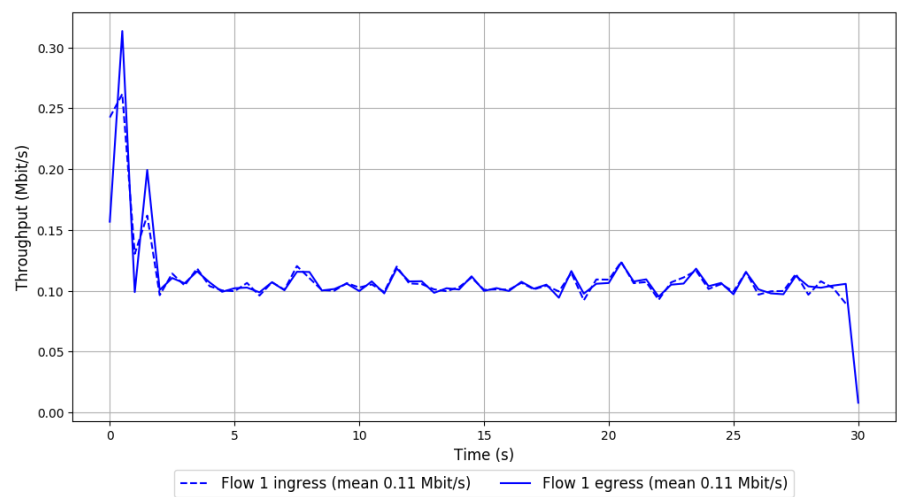
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 113.440 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-19 21:43:55

End at: 2018-02-19 21:44:25

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.087 ms

Loss rate: 0.00%

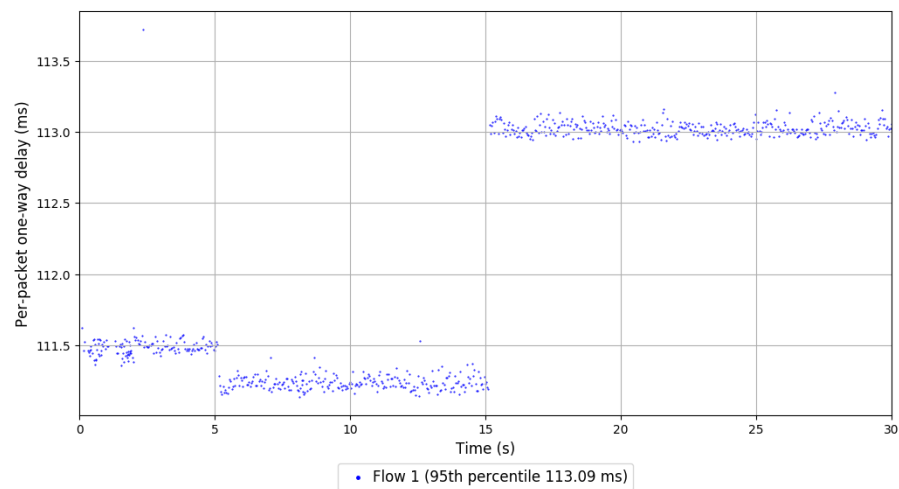
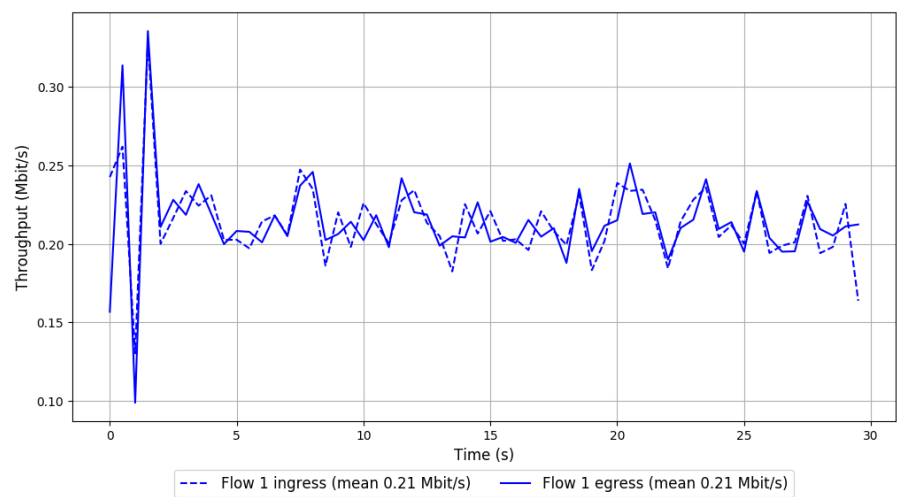
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.087 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-19 21:59:36

End at: 2018-02-19 22:00:06

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.195 ms

Loss rate: 0.00%

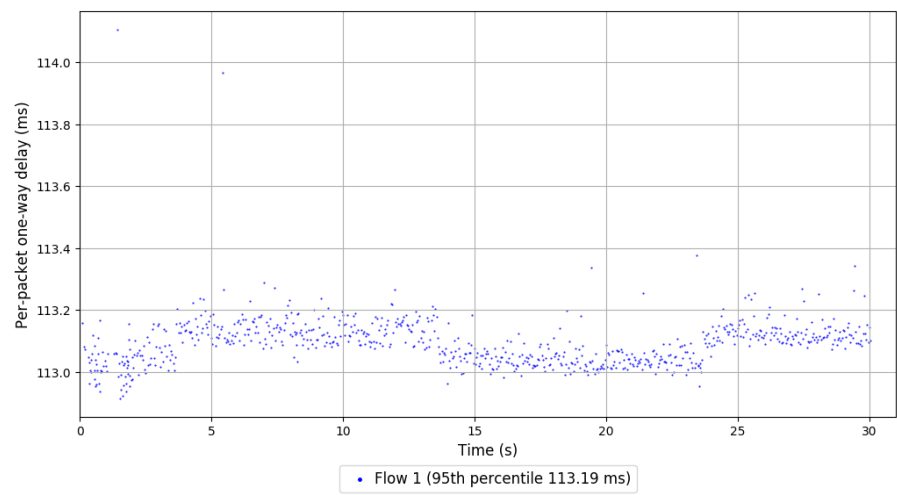
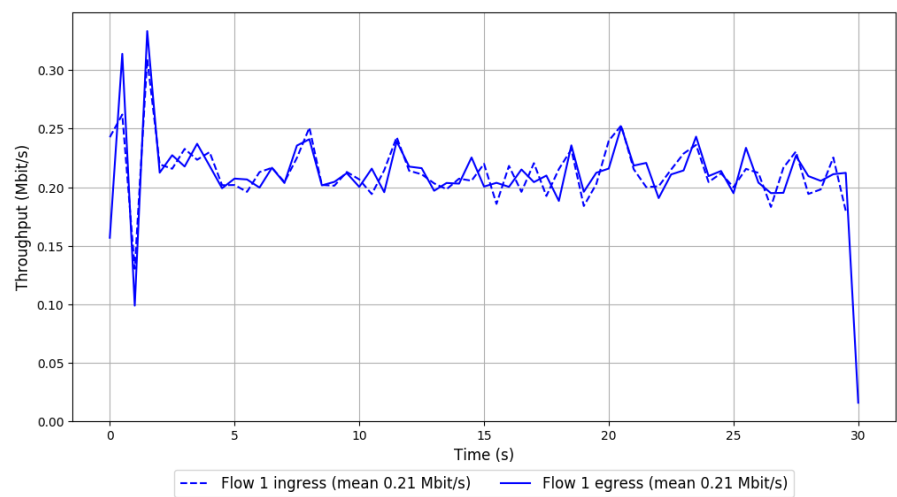
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 113.195 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

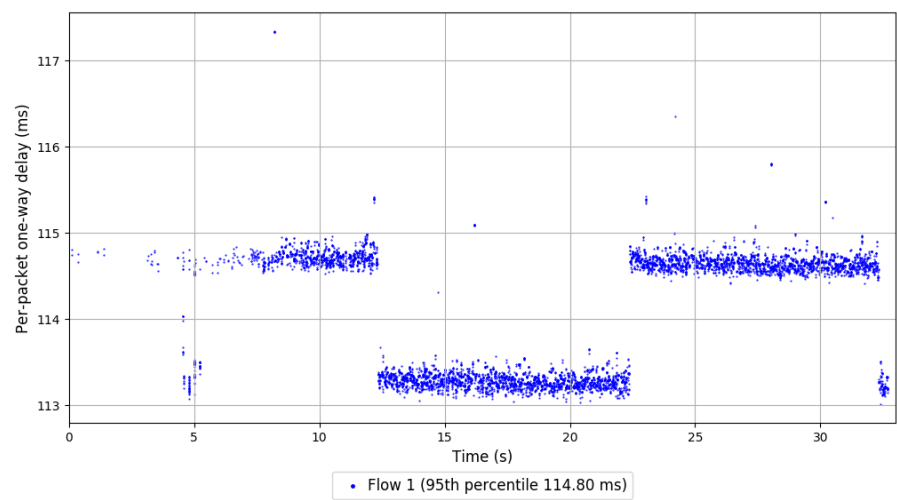
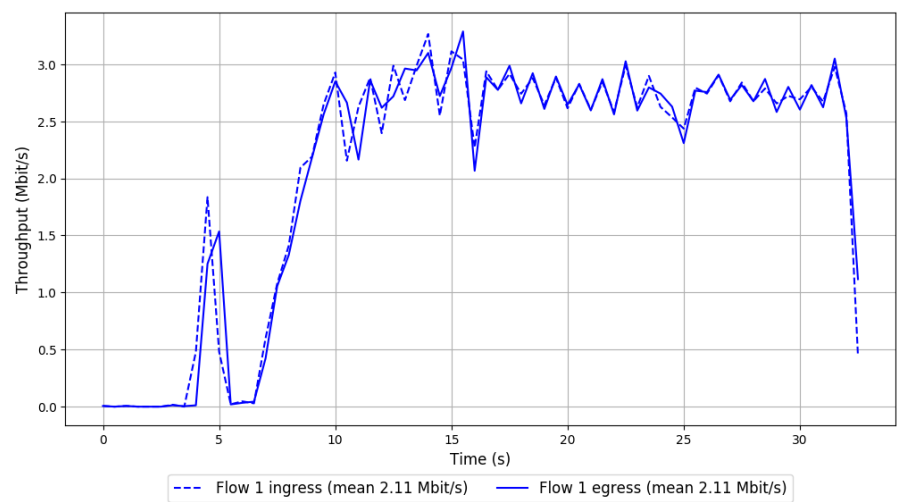


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-19 19:37:20
End at: 2018-02-19 19:37:50

# Below is generated by plot.py at 2018-02-19 23:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 114.795 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.11 Mbit/s
95th percentile per-packet one-way delay: 114.795 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-19 19:53:05

End at: 2018-02-19 19:53:35

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.020 ms

Loss rate: 0.00%

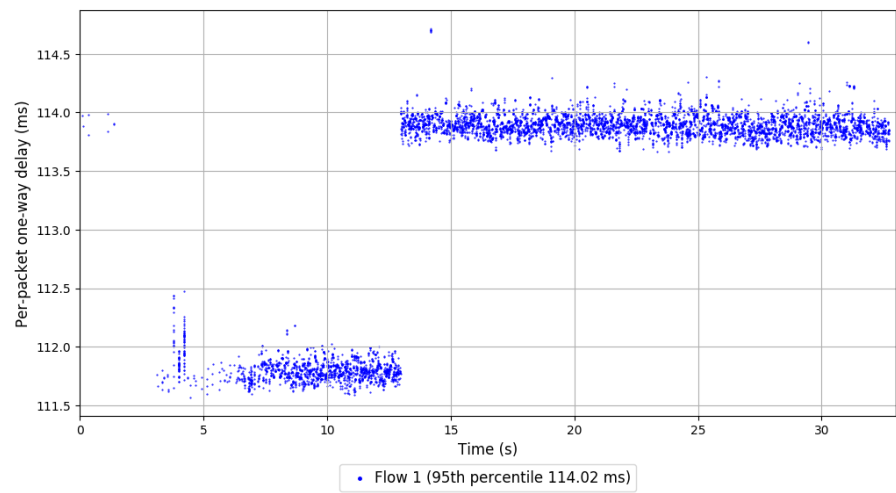
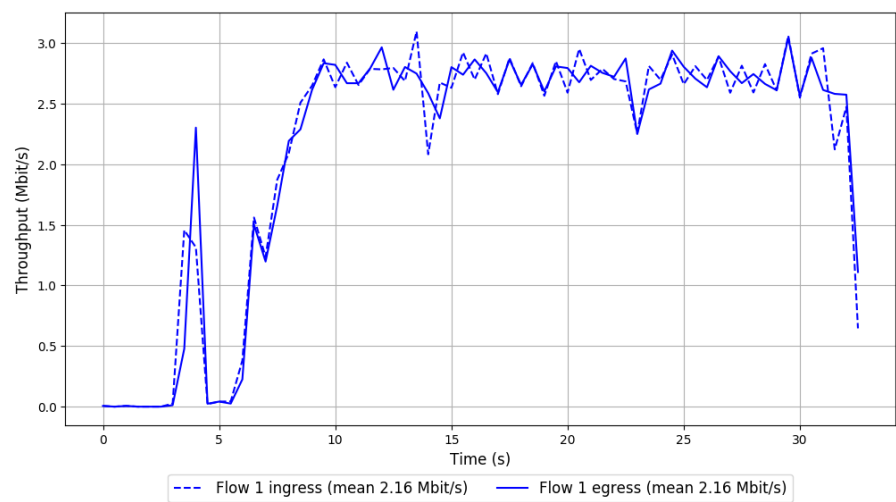
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 114.020 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-19 20:08:48

End at: 2018-02-19 20:09:18

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 113.710 ms

Loss rate: 0.00%

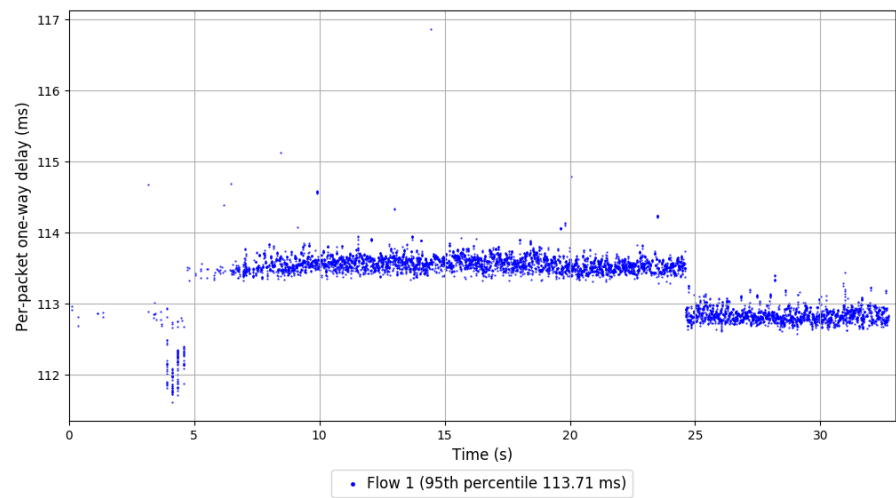
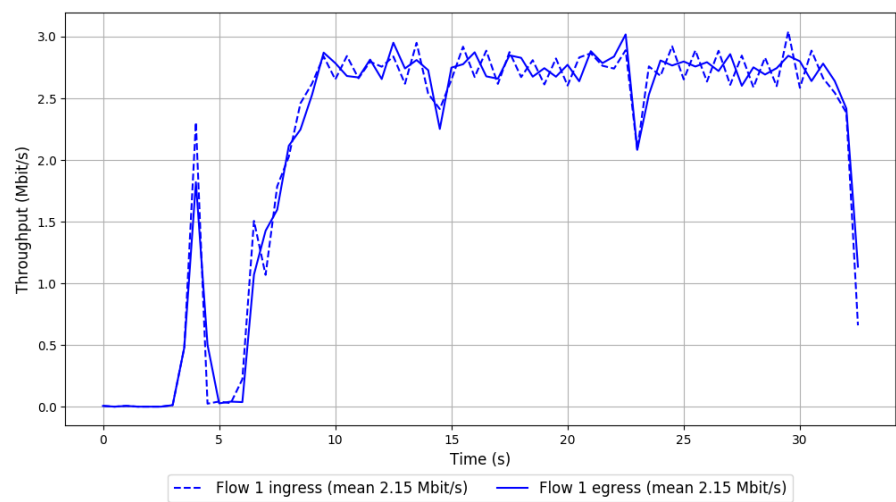
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 113.710 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-19 20:23:47

End at: 2018-02-19 20:24:17

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.866 ms

Loss rate: 0.00%

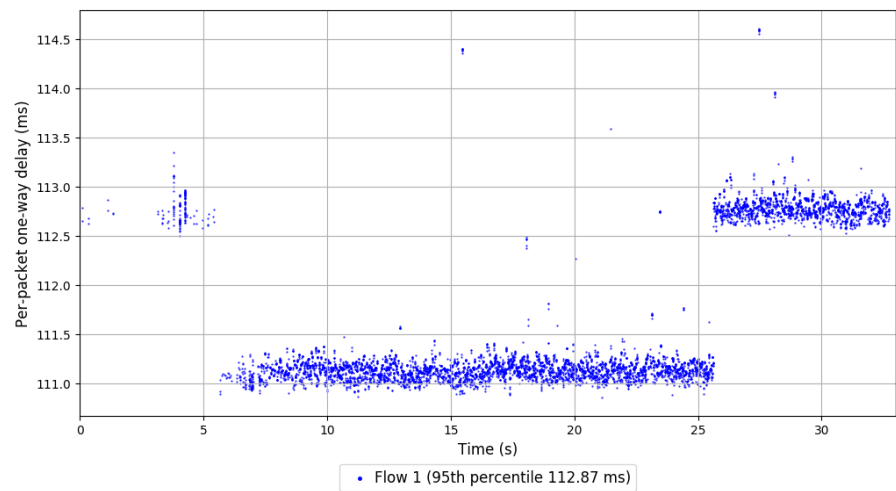
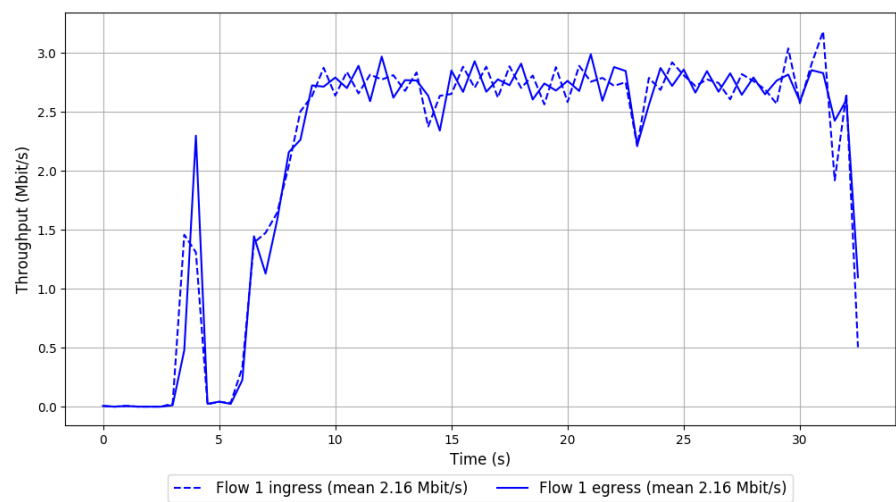
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.866 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-19 20:39:32

End at: 2018-02-19 20:40:02

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.868 ms

Loss rate: 0.00%

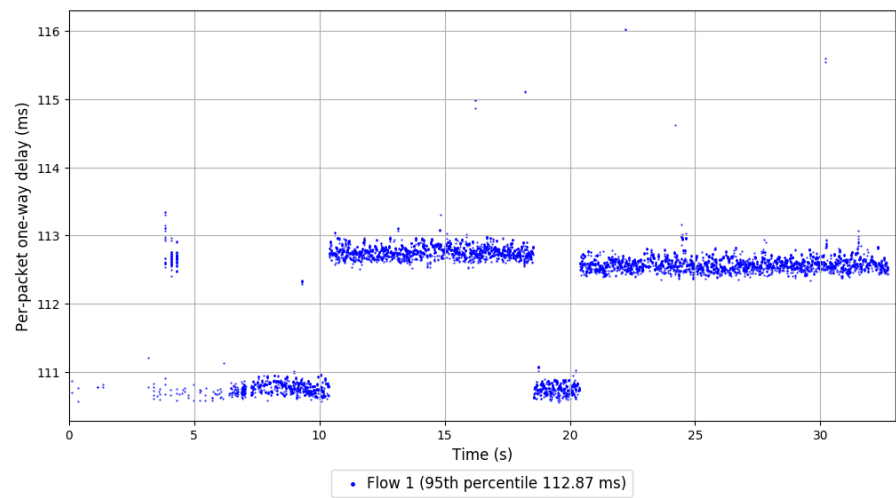
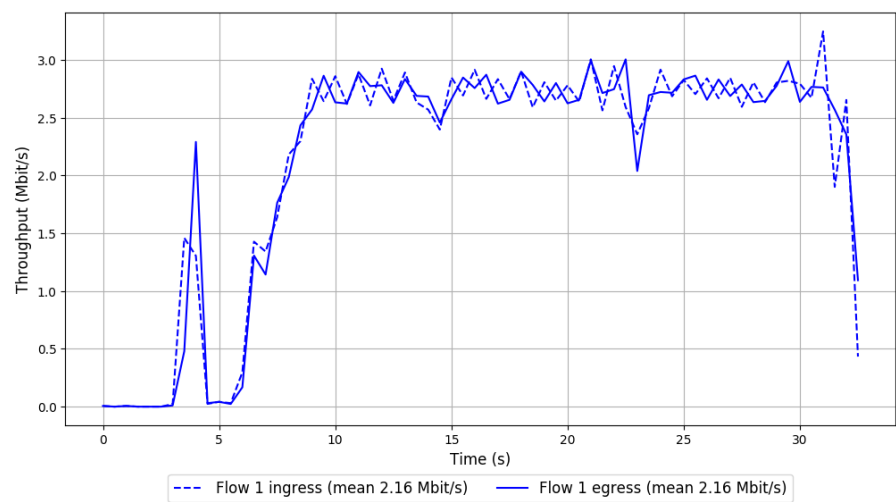
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.868 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-19 20:54:52

End at: 2018-02-19 20:55:22

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.138 ms

Loss rate: 0.00%

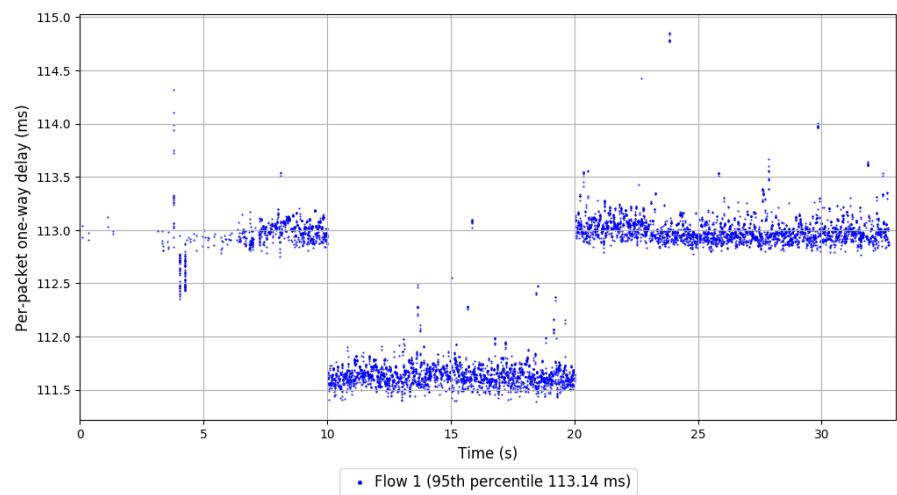
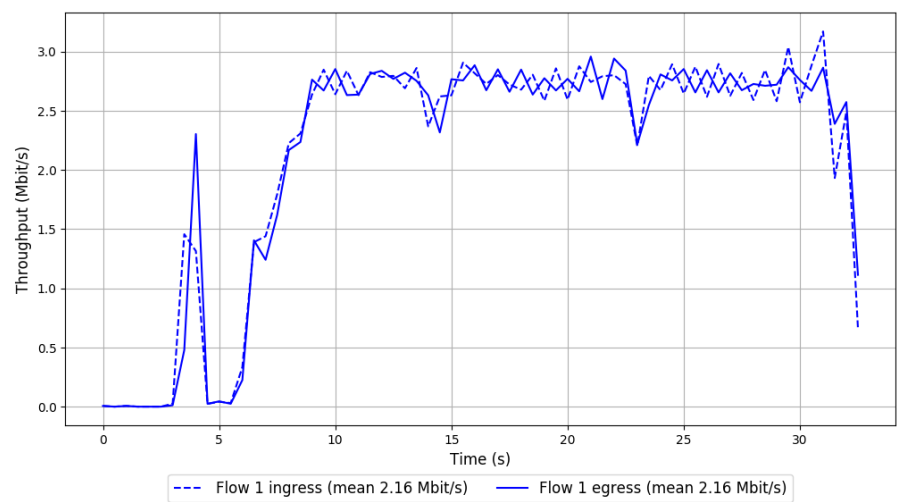
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.138 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-19 21:10:10

End at: 2018-02-19 21:10:40

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.747 ms

Loss rate: 0.00%

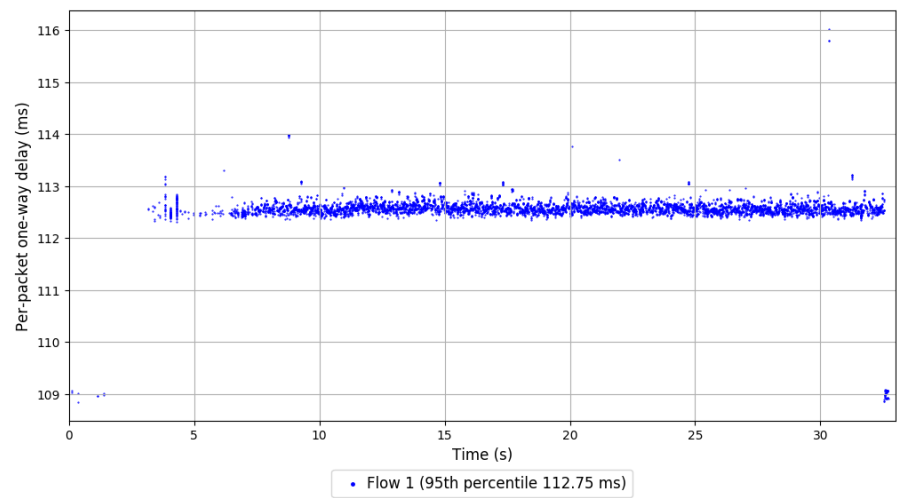
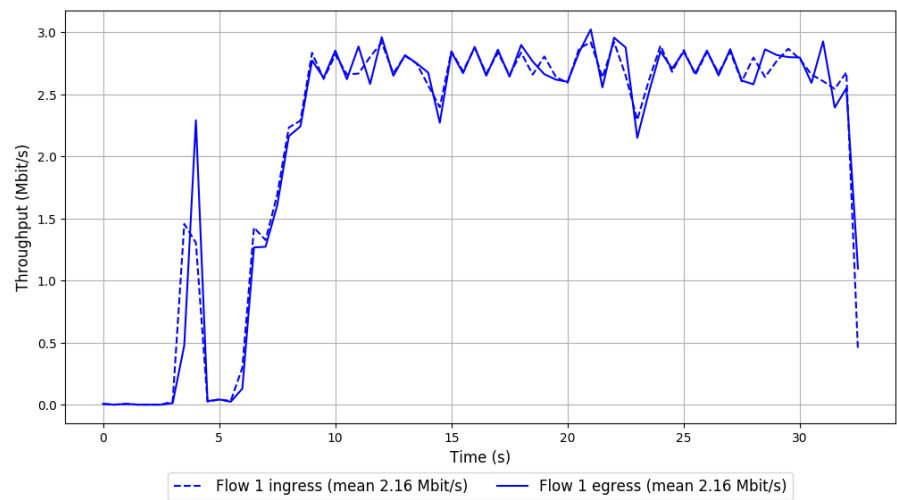
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 112.747 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-19 21:25:27

End at: 2018-02-19 21:25:57

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 112.910 ms

Loss rate: 0.00%

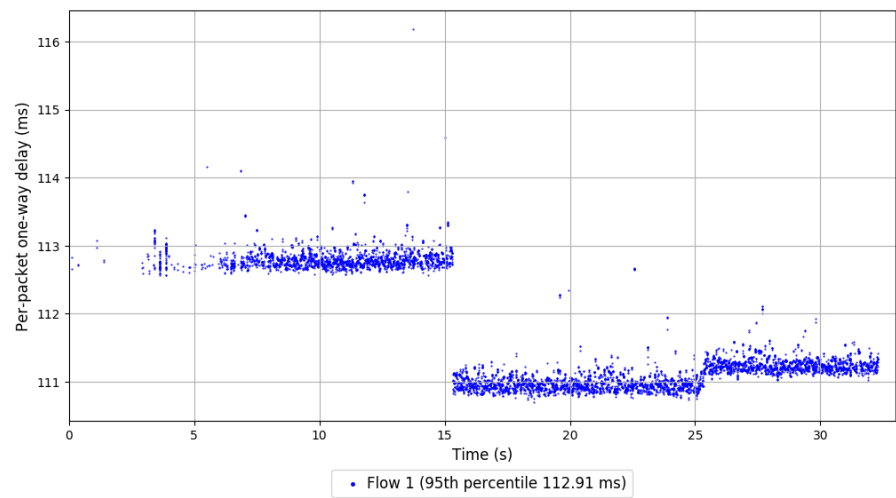
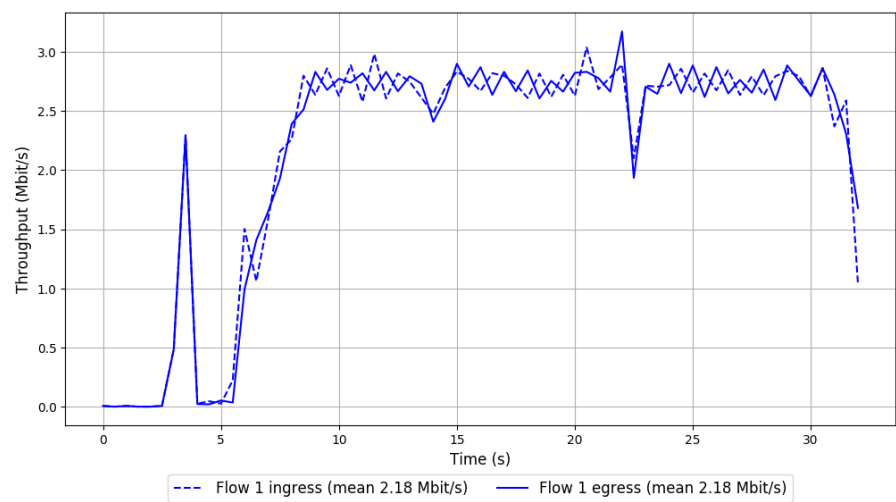
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 112.910 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-19 21:41:00

End at: 2018-02-19 21:41:30

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 113.113 ms

Loss rate: 0.00%

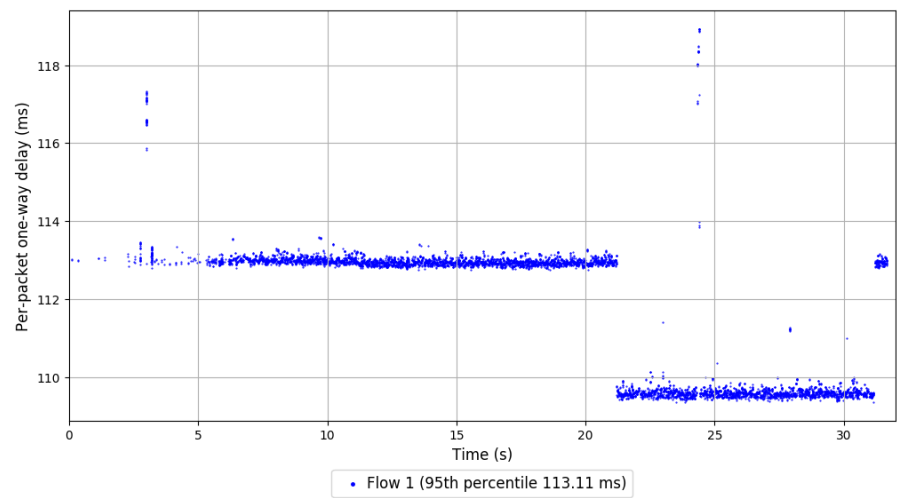
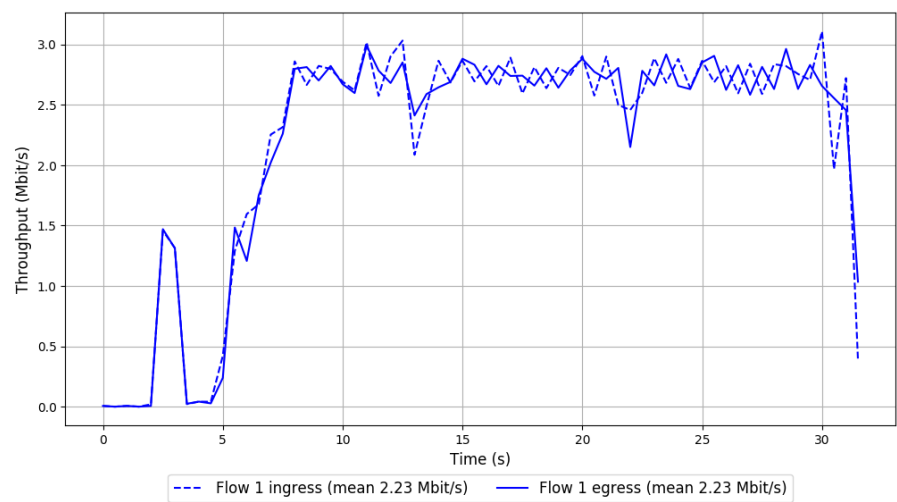
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 113.113 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-19 21:56:43

End at: 2018-02-19 21:57:13

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.374 ms

Loss rate: 0.00%

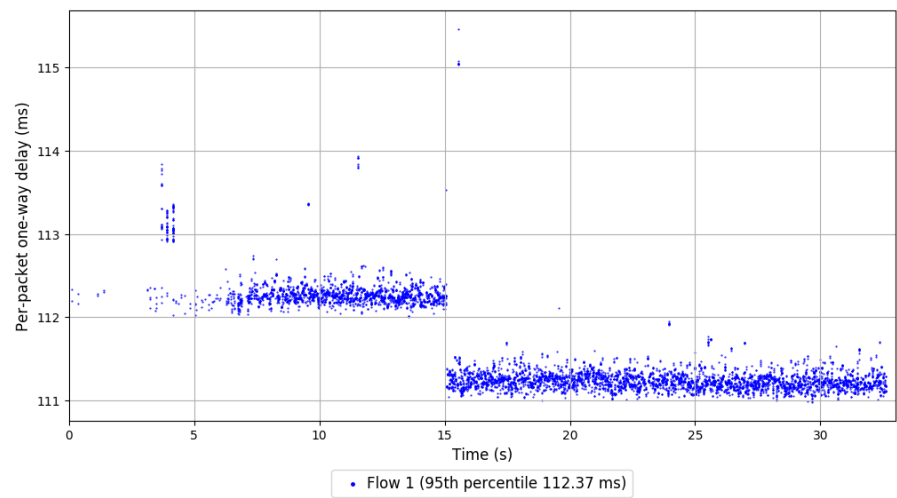
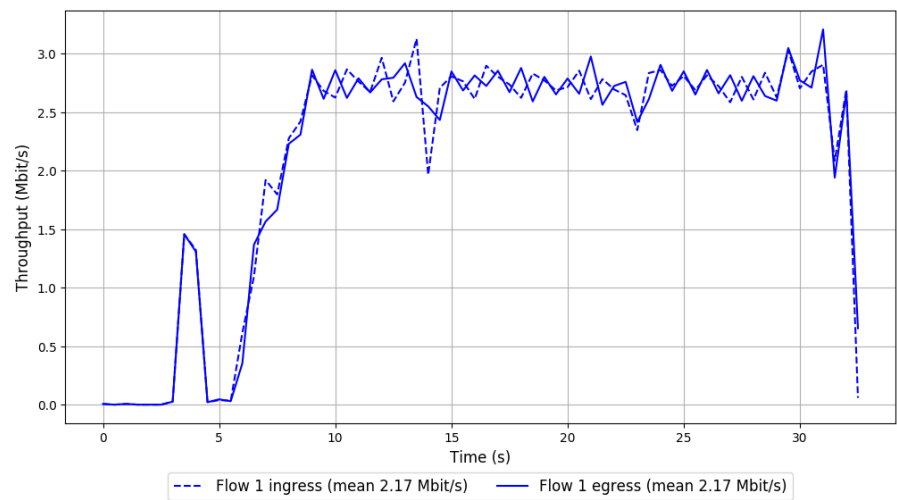
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 112.374 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

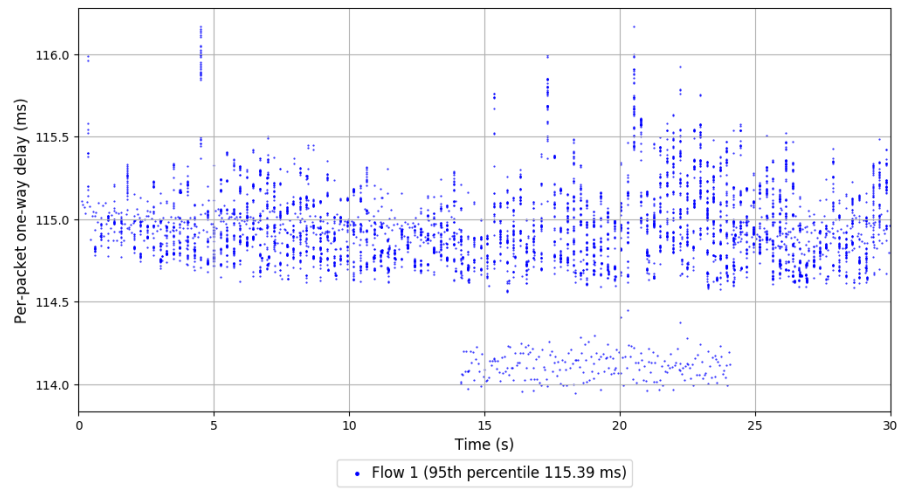
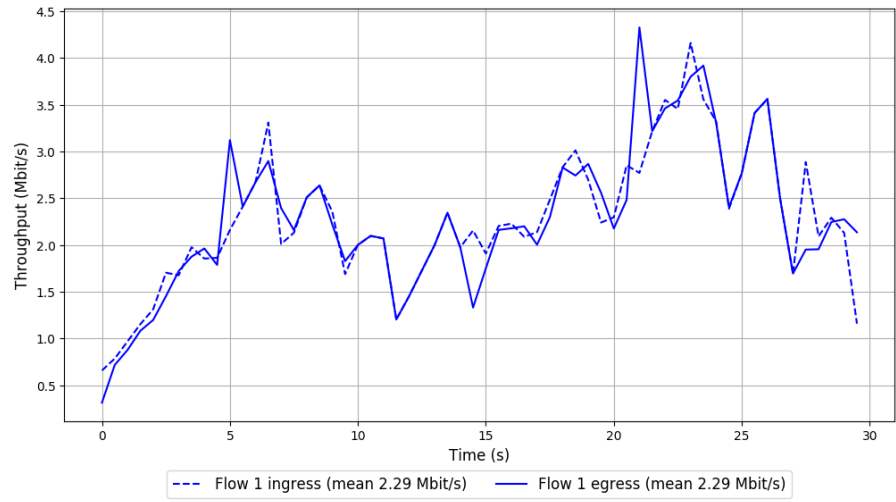


```
Run 1: Statistics of Sprout

Start at: 2018-02-19 19:38:01
End at: 2018-02-19 19:38:31

# Below is generated by plot.py at 2018-02-19 23:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 115.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.29 Mbit/s
95th percentile per-packet one-way delay: 115.392 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-19 19:53:46

End at: 2018-02-19 19:54:16

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 113.761 ms

Loss rate: 0.00%

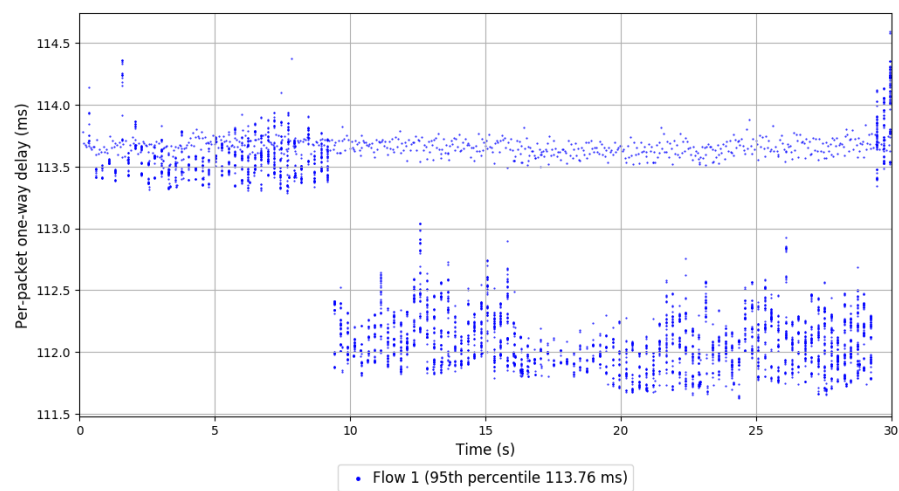
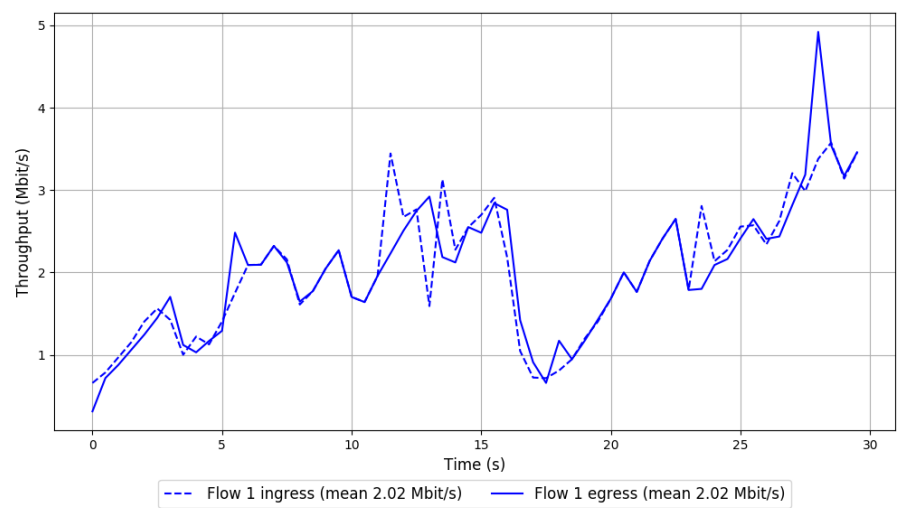
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 113.761 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-19 20:09:29

End at: 2018-02-19 20:09:59

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 113.920 ms

Loss rate: 0.00%

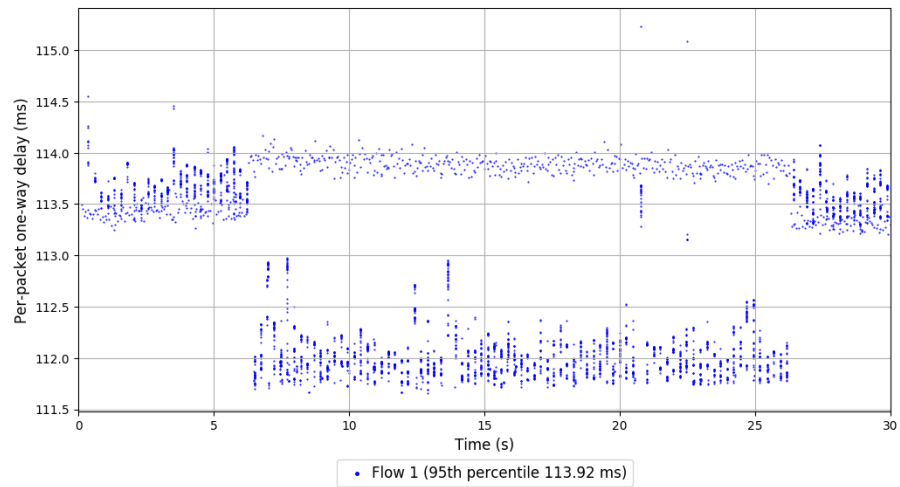
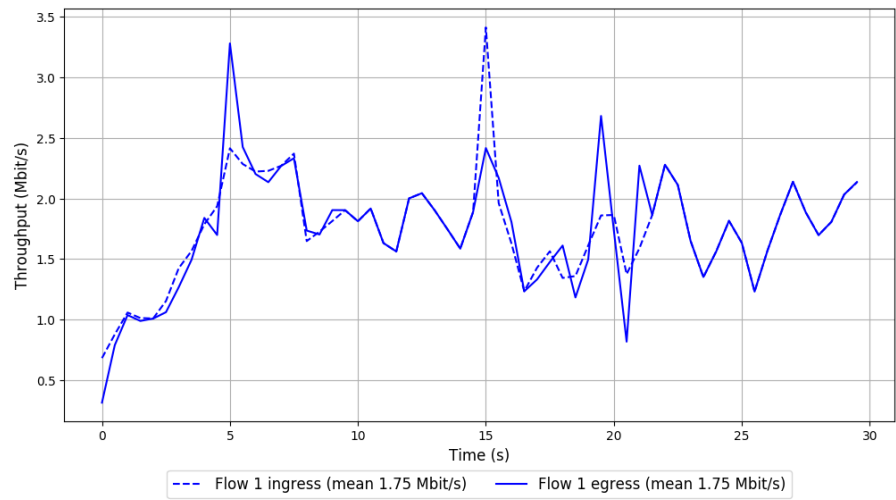
-- Flow 1:

Average throughput: 1.75 Mbit/s

95th percentile per-packet one-way delay: 113.920 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-19 20:24:28

End at: 2018-02-19 20:24:58

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 113.548 ms

Loss rate: 0.00%

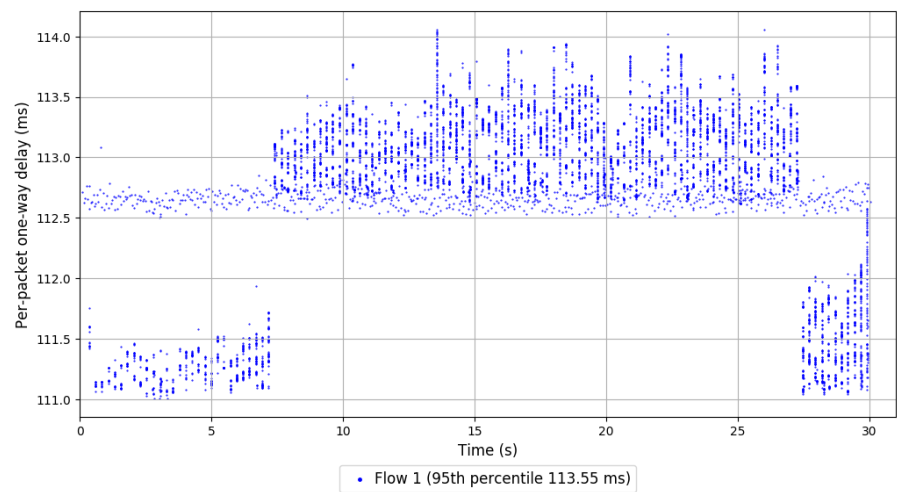
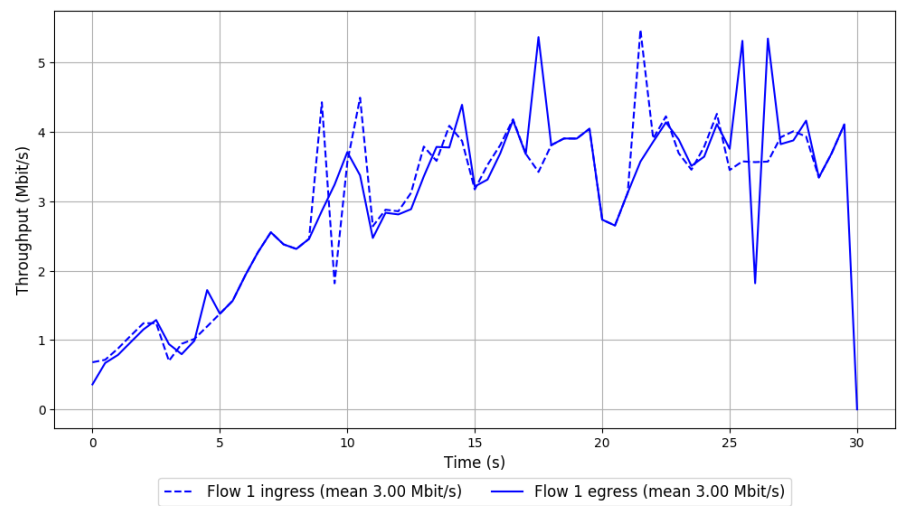
-- Flow 1:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 113.548 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-19 20:40:13

End at: 2018-02-19 20:40:43

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 113.242 ms

Loss rate: 0.00%

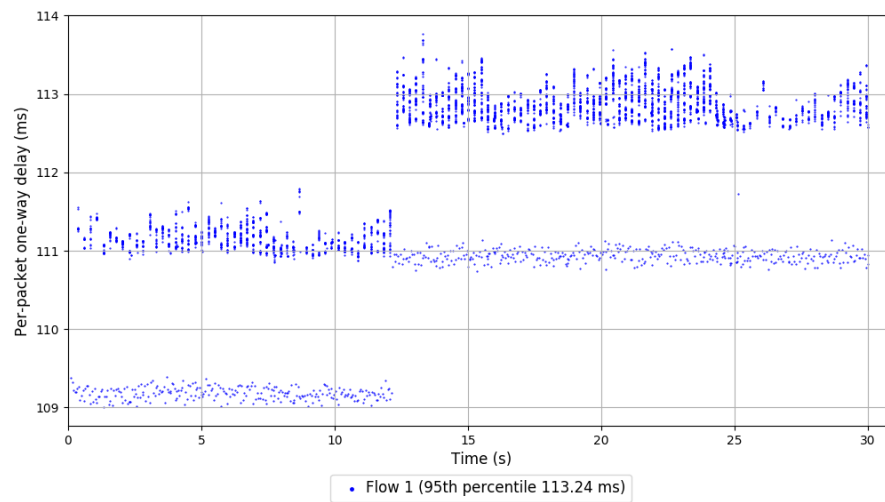
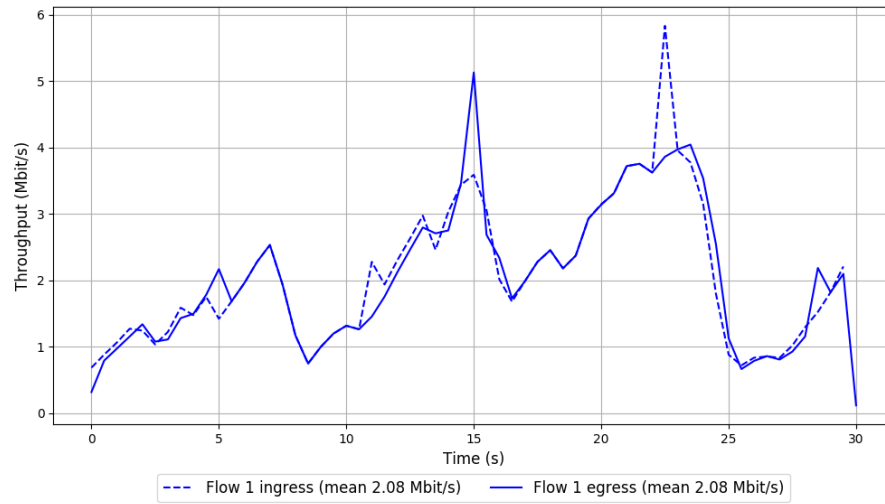
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 113.242 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-19 20:55:33

End at: 2018-02-19 20:56:03

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 113.504 ms

Loss rate: 0.00%

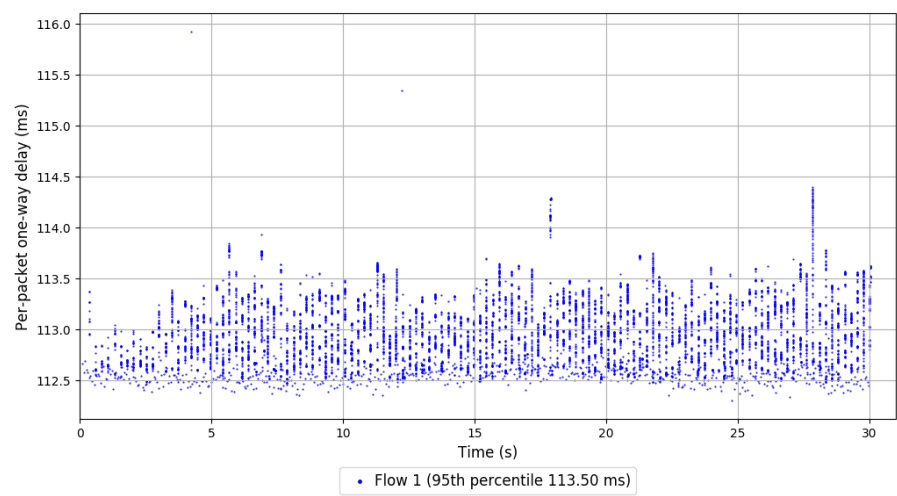
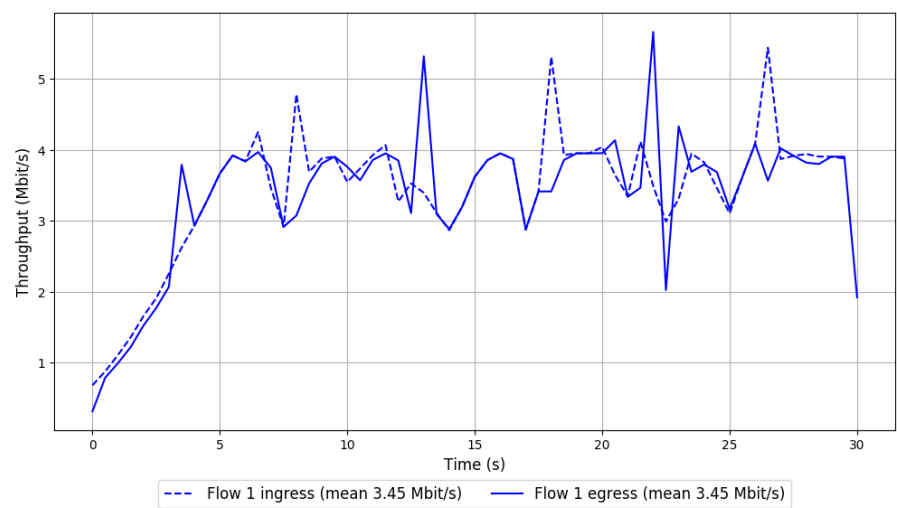
-- Flow 1:

Average throughput: 3.45 Mbit/s

95th percentile per-packet one-way delay: 113.504 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-19 21:10:51

End at: 2018-02-19 21:11:21

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 113.356 ms

Loss rate: 0.00%

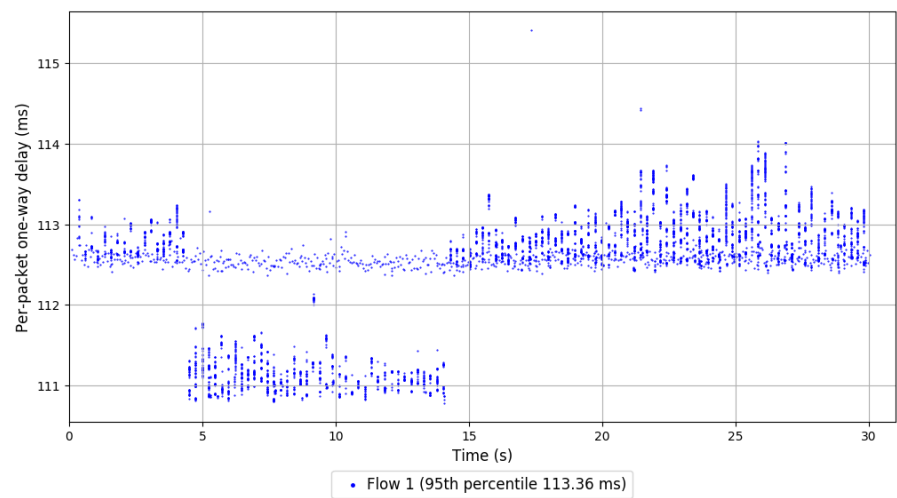
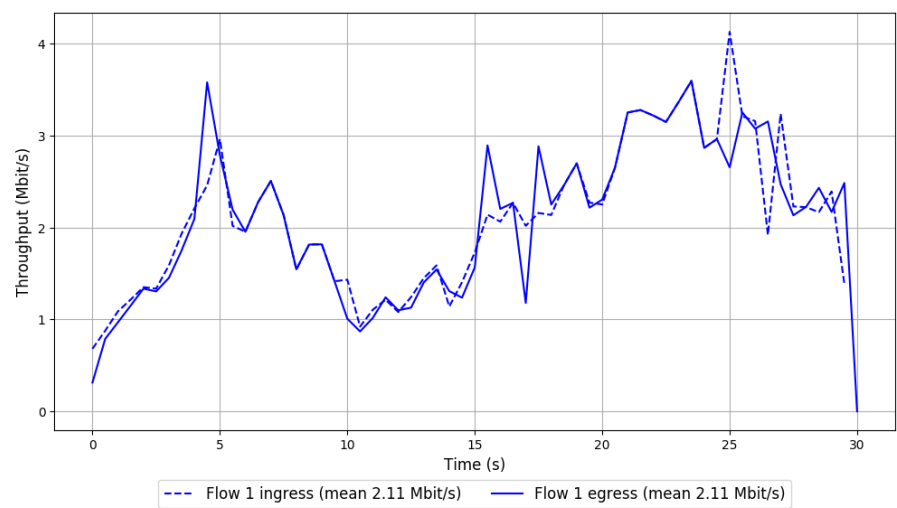
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 113.356 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-19 21:26:08

End at: 2018-02-19 21:26:38

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 113.961 ms

Loss rate: 0.00%

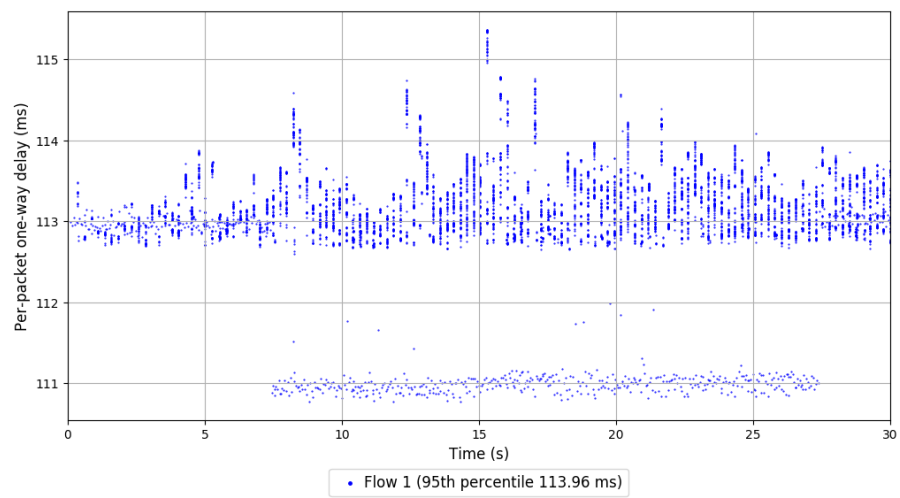
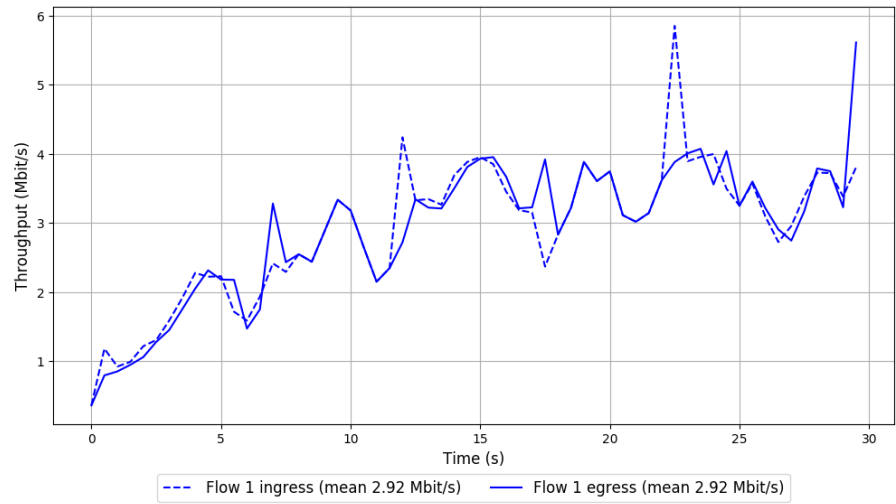
-- Flow 1:

Average throughput: 2.92 Mbit/s

95th percentile per-packet one-way delay: 113.961 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-19 21:41:41

End at: 2018-02-19 21:42:11

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 113.945 ms

Loss rate: 0.00%

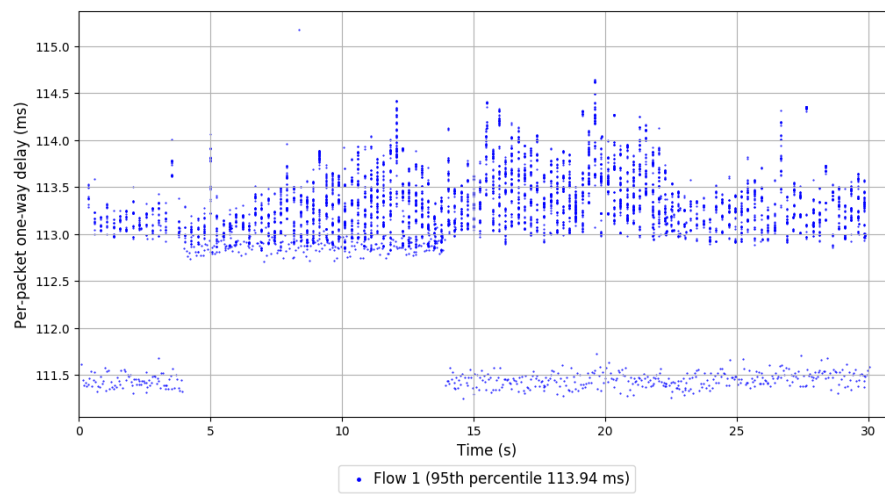
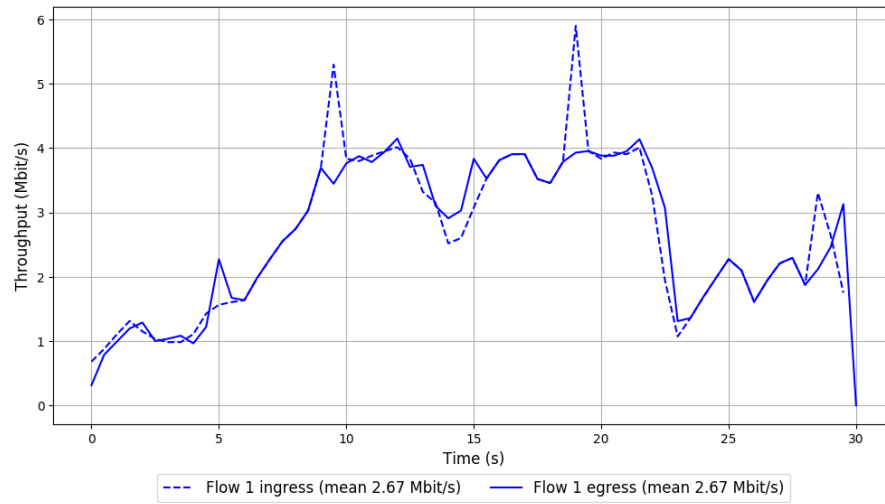
-- Flow 1:

Average throughput: 2.67 Mbit/s

95th percentile per-packet one-way delay: 113.945 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-19 21:57:24

End at: 2018-02-19 21:57:54

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 113.897 ms

Loss rate: 0.00%

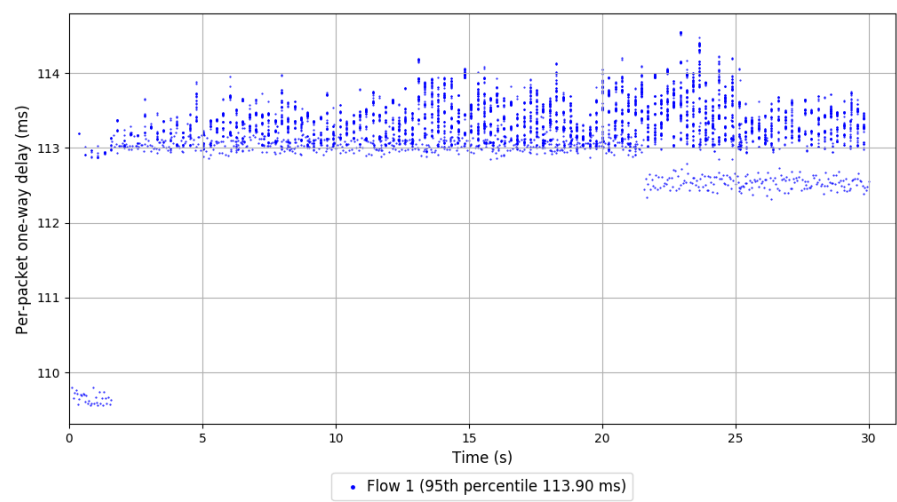
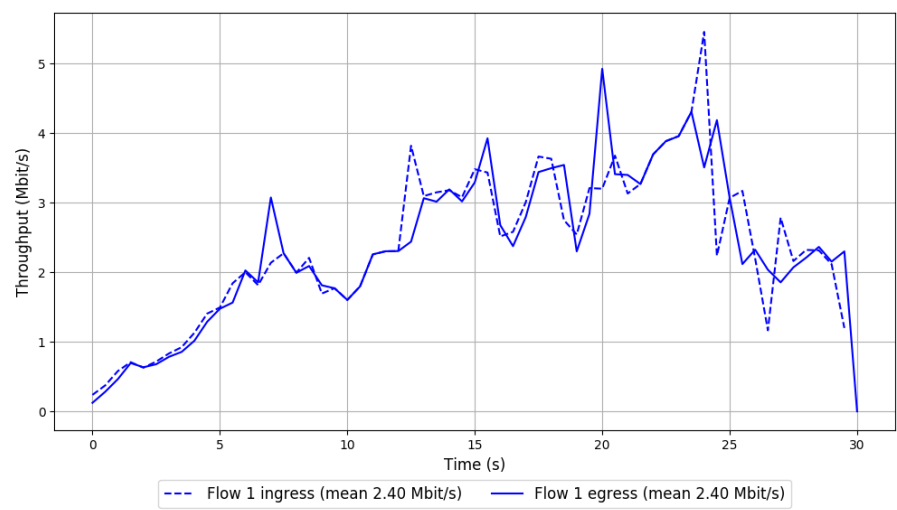
-- Flow 1:

Average throughput: 2.40 Mbit/s

95th percentile per-packet one-way delay: 113.897 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

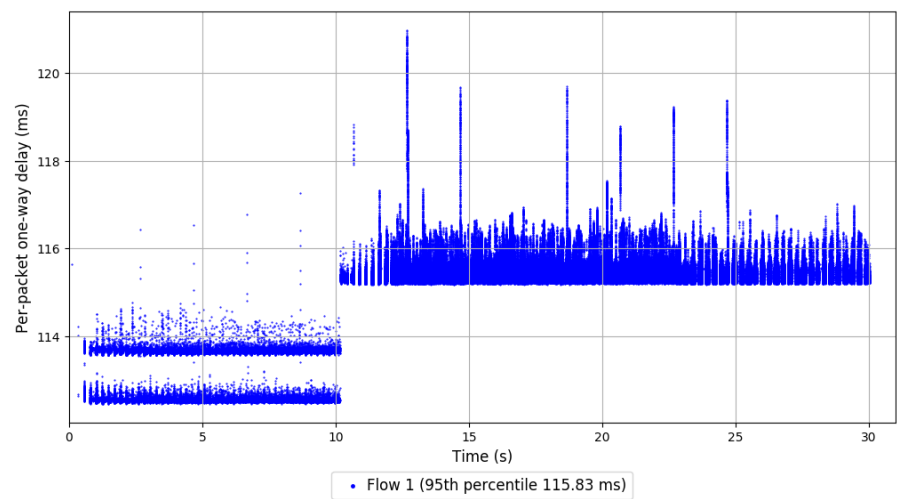
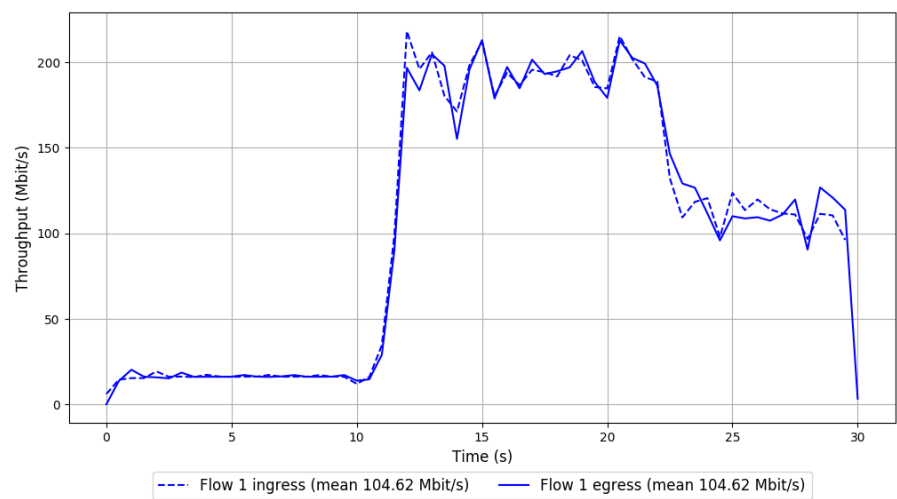


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-19 19:33:25
End at: 2018-02-19 19:33:55

# Below is generated by plot.py at 2018-02-19 23:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 104.62 Mbit/s
95th percentile per-packet one-way delay: 115.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 104.62 Mbit/s
95th percentile per-packet one-way delay: 115.829 ms
Loss rate: 0.00%
```


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

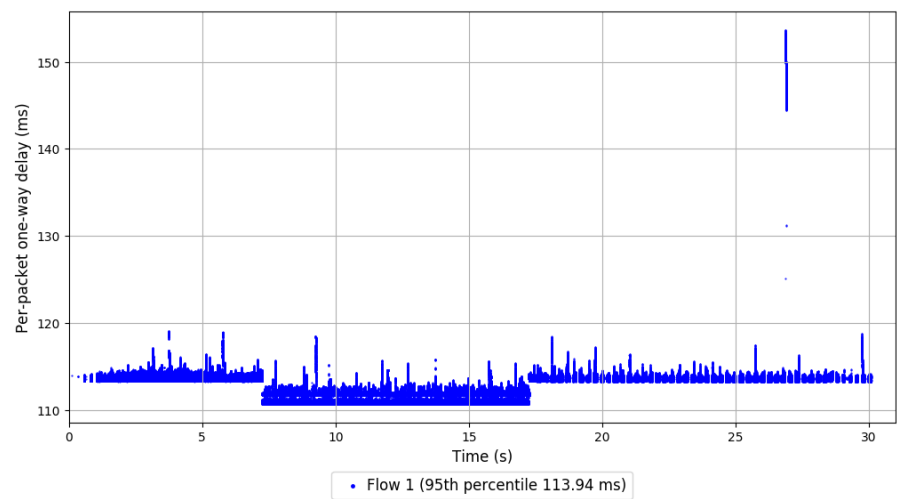
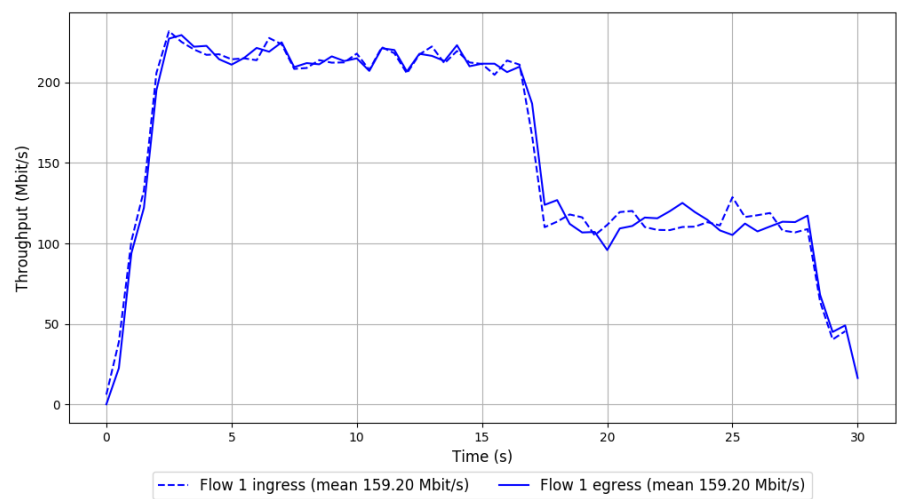


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-19 19:48:58
End at: 2018-02-19 19:49:28

# Below is generated by plot.py at 2018-02-19 23:43:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 159.20 Mbit/s
95th percentile per-packet one-way delay: 113.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 159.20 Mbit/s
95th percentile per-packet one-way delay: 113.938 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-19 20:04:49

End at: 2018-02-19 20:05:19

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.57 Mbit/s

95th percentile per-packet one-way delay: 115.368 ms

Loss rate: 0.01%

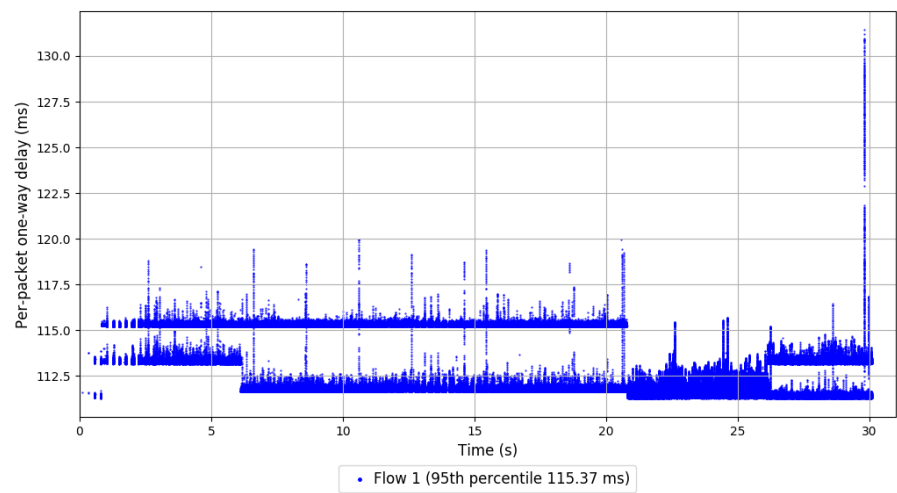
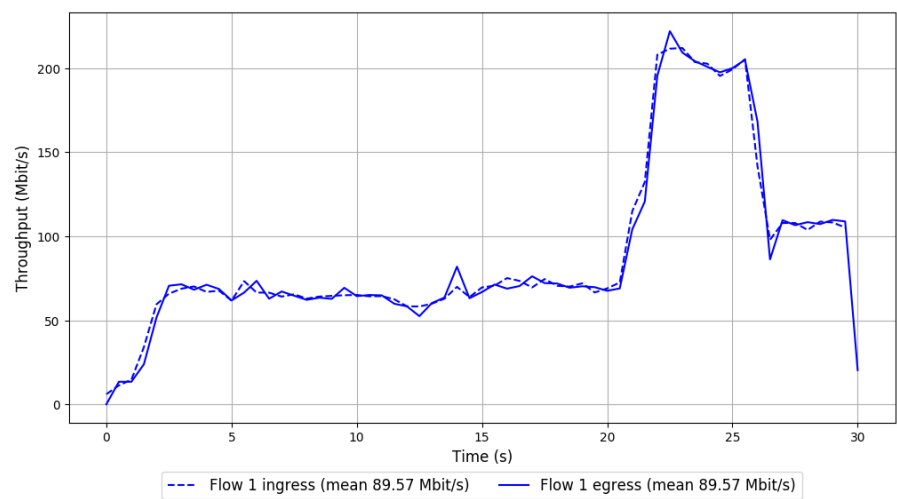
-- Flow 1:

Average throughput: 89.57 Mbit/s

95th percentile per-packet one-way delay: 115.368 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-19 20:19:52

End at: 2018-02-19 20:20:22

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.34 Mbit/s

95th percentile per-packet one-way delay: 112.848 ms

Loss rate: 0.00%

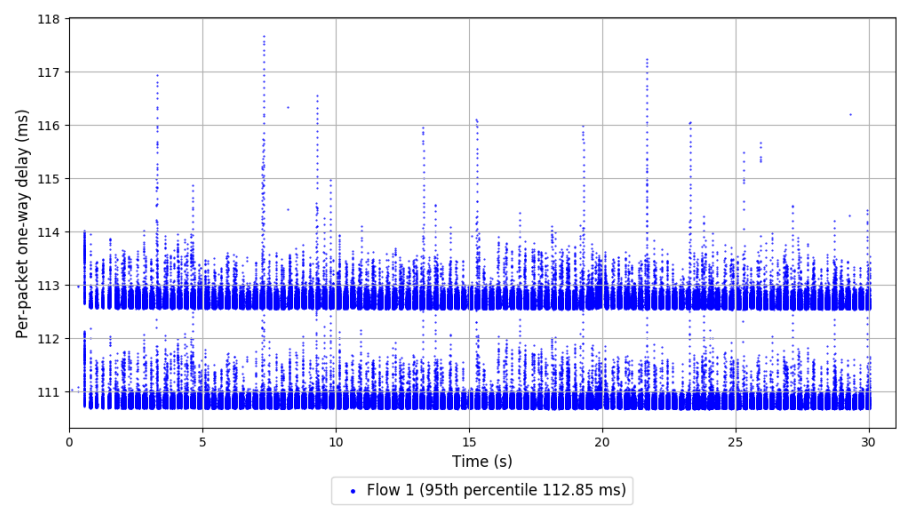
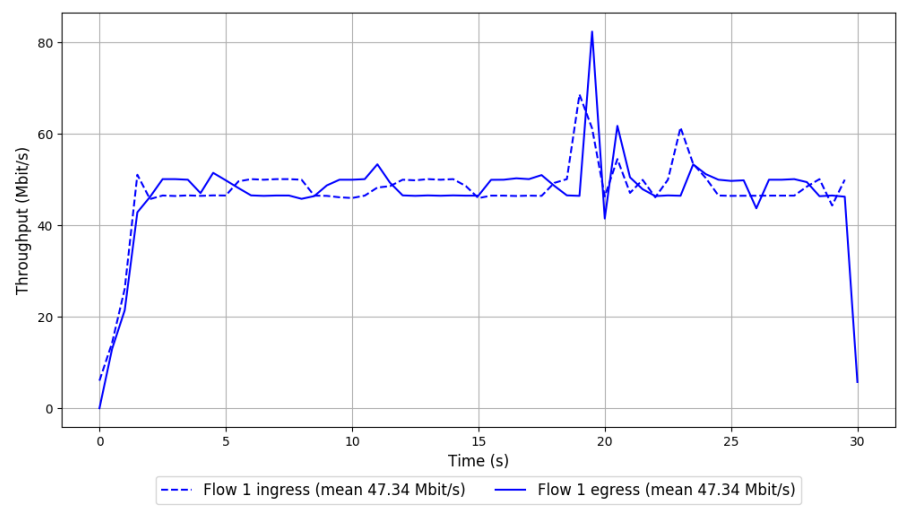
-- Flow 1:

Average throughput: 47.34 Mbit/s

95th percentile per-packet one-way delay: 112.848 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-19 20:35:25

End at: 2018-02-19 20:35:56

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.89 Mbit/s

95th percentile per-packet one-way delay: 113.671 ms

Loss rate: 0.00%

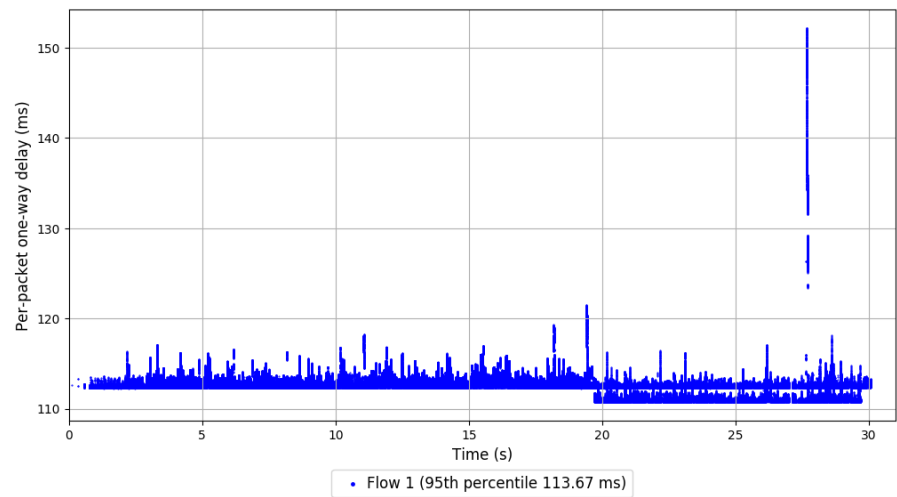
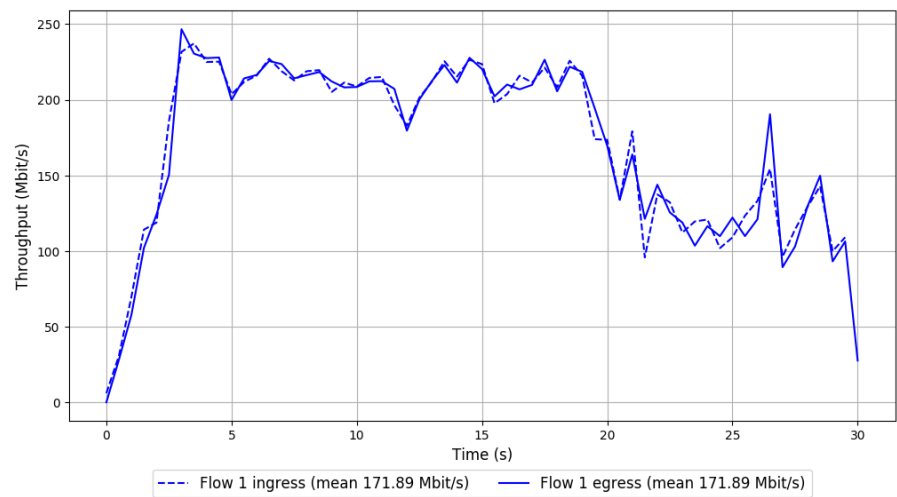
-- Flow 1:

Average throughput: 171.89 Mbit/s

95th percentile per-packet one-way delay: 113.671 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-19 20:51:01

End at: 2018-02-19 20:51:31

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.12 Mbit/s

95th percentile per-packet one-way delay: 112.962 ms

Loss rate: 0.00%

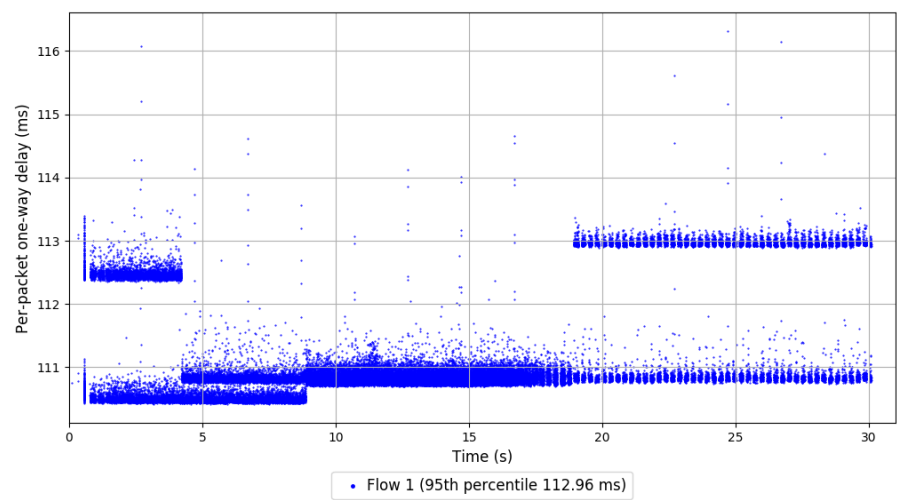
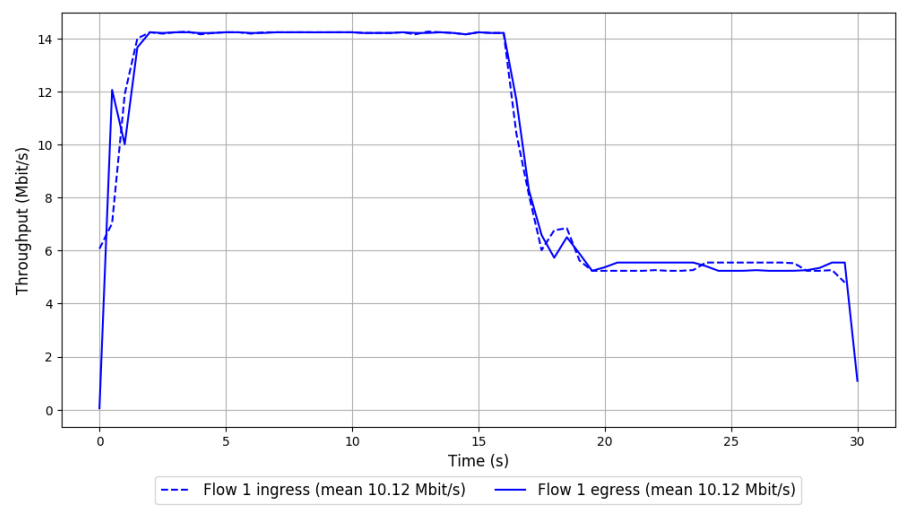
-- Flow 1:

Average throughput: 10.12 Mbit/s

95th percentile per-packet one-way delay: 112.962 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-19 21:06:06

End at: 2018-02-19 21:06:36

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.21 Mbit/s

95th percentile per-packet one-way delay: 113.495 ms

Loss rate: 0.00%

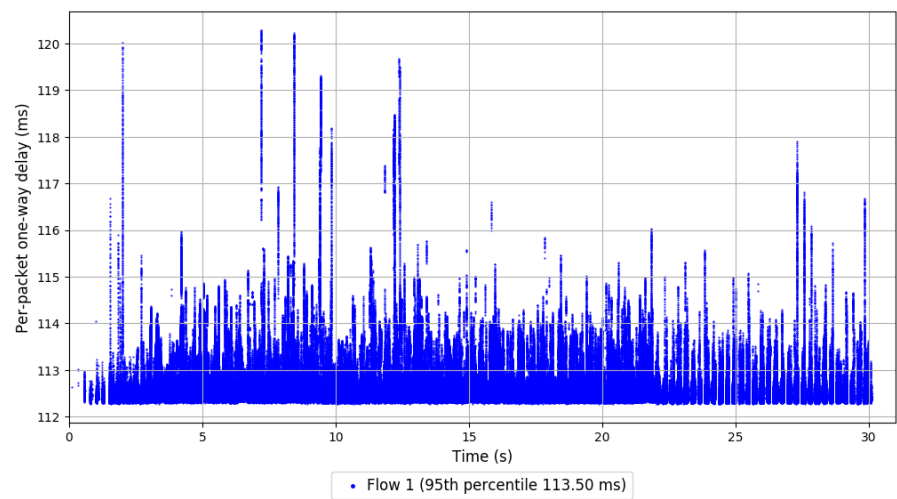
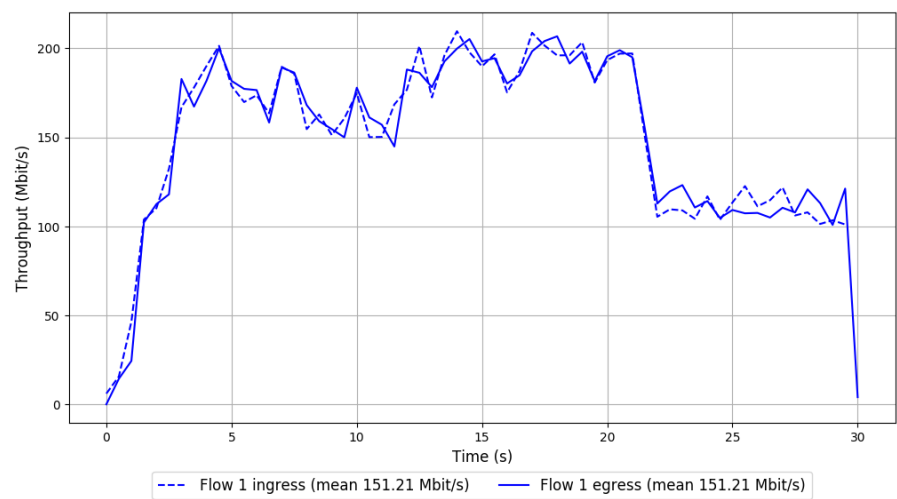
-- Flow 1:

Average throughput: 151.21 Mbit/s

95th percentile per-packet one-way delay: 113.495 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-19 21:21:31

End at: 2018-02-19 21:22:01

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.96 Mbit/s

95th percentile per-packet one-way delay: 112.954 ms

Loss rate: 0.00%

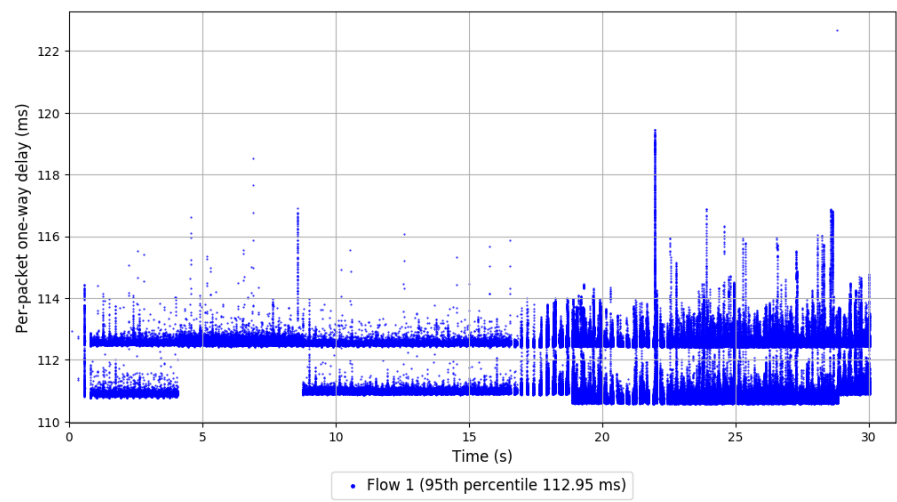
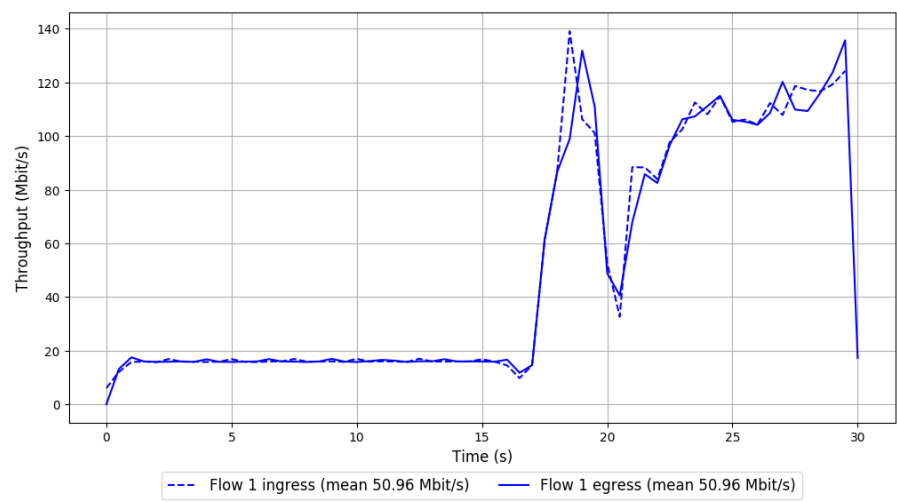
-- Flow 1:

Average throughput: 50.96 Mbit/s

95th percentile per-packet one-way delay: 112.954 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-19 21:37:03

End at: 2018-02-19 21:37:33

Below is generated by plot.py at 2018-02-19 23:43:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.09 Mbit/s

95th percentile per-packet one-way delay: 113.387 ms

Loss rate: 0.00%

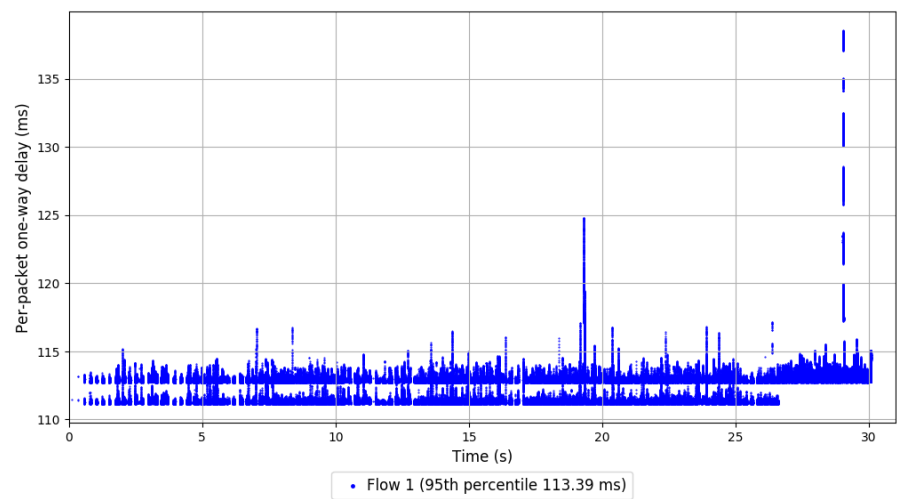
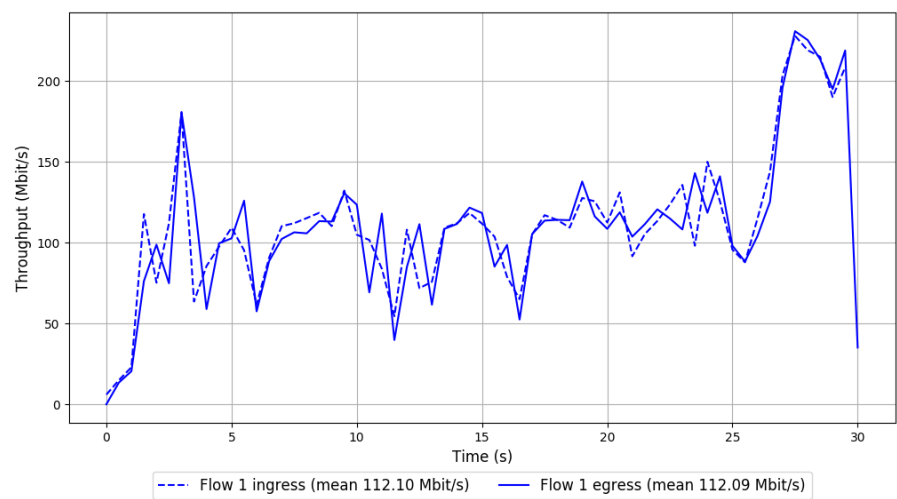
-- Flow 1:

Average throughput: 112.09 Mbit/s

95th percentile per-packet one-way delay: 113.387 ms

Loss rate: 0.00%

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

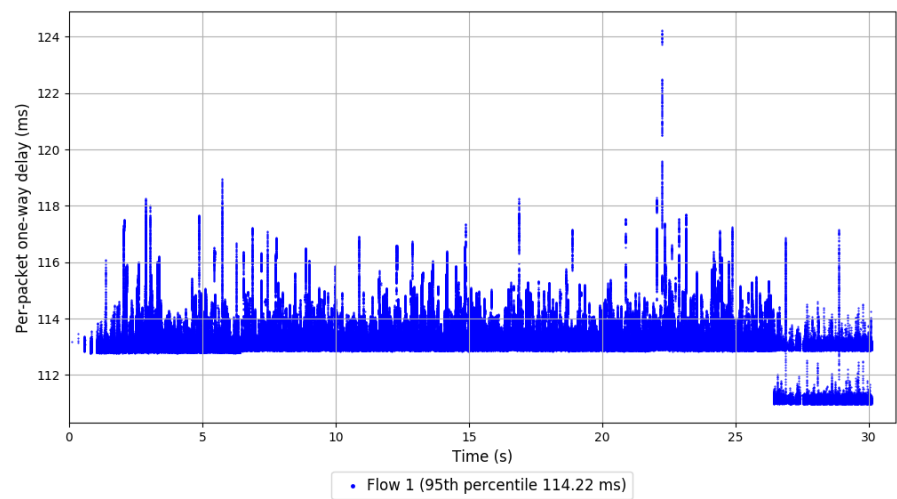
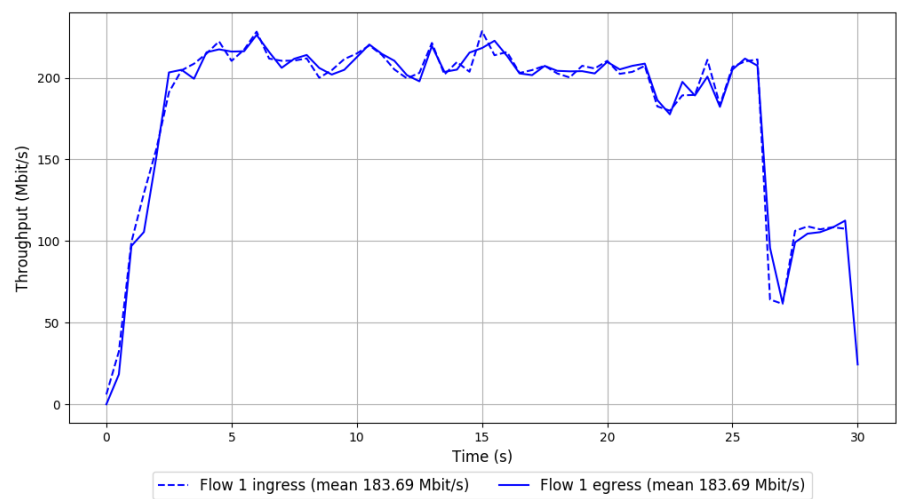


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-19 21:52:39
End at: 2018-02-19 21:53:09

# Below is generated by plot.py at 2018-02-19 23:46:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 183.69 Mbit/s
95th percentile per-packet one-way delay: 114.218 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 183.69 Mbit/s
95th percentile per-packet one-way delay: 114.218 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-19 19:32:42

End at: 2018-02-19 19:33:12

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 116.439 ms

Loss rate: 0.00%

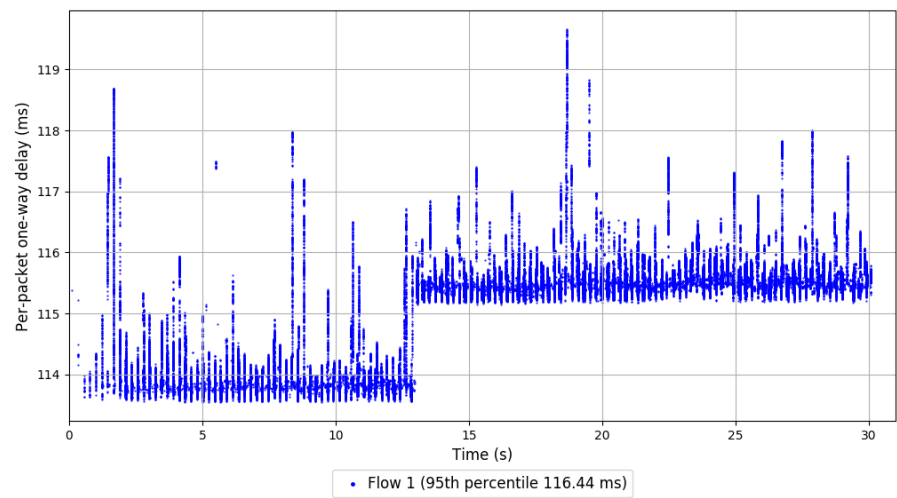
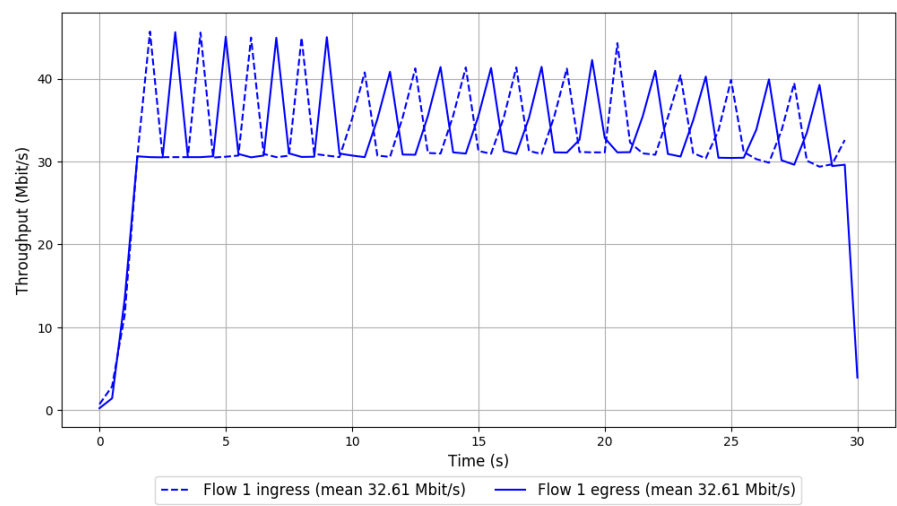
-- Flow 1:

Average throughput: 32.61 Mbit/s

95th percentile per-packet one-way delay: 116.439 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-19 19:48:11

End at: 2018-02-19 19:48:41

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.27 Mbit/s

95th percentile per-packet one-way delay: 120.915 ms

Loss rate: 0.00%

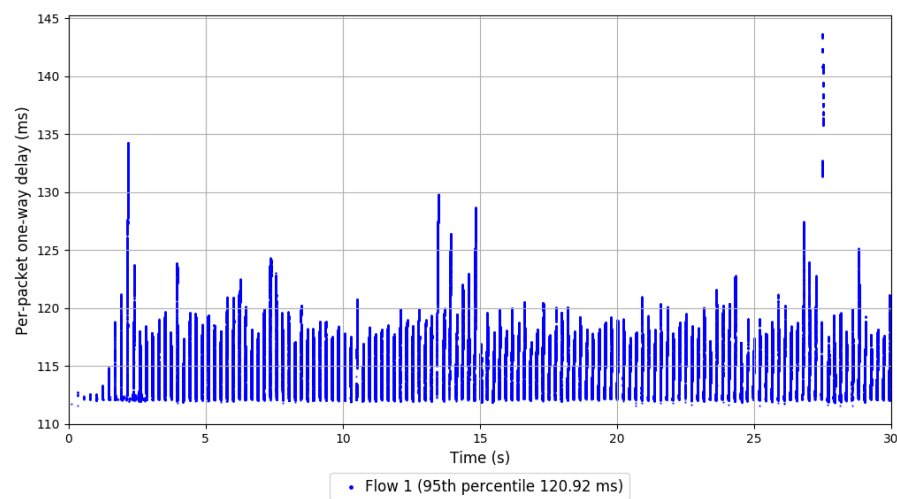
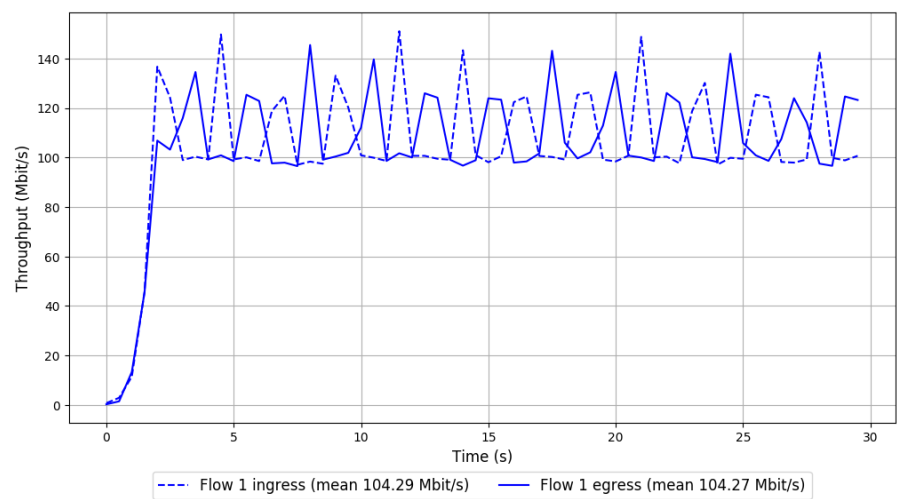
-- Flow 1:

Average throughput: 104.27 Mbit/s

95th percentile per-packet one-way delay: 120.915 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-19 20:04:04

End at: 2018-02-19 20:04:34

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 113.621 ms

Loss rate: 0.00%

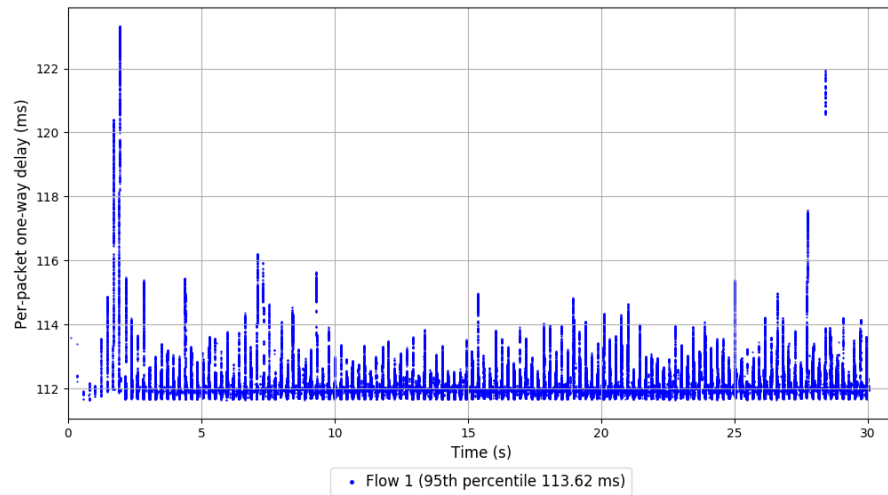
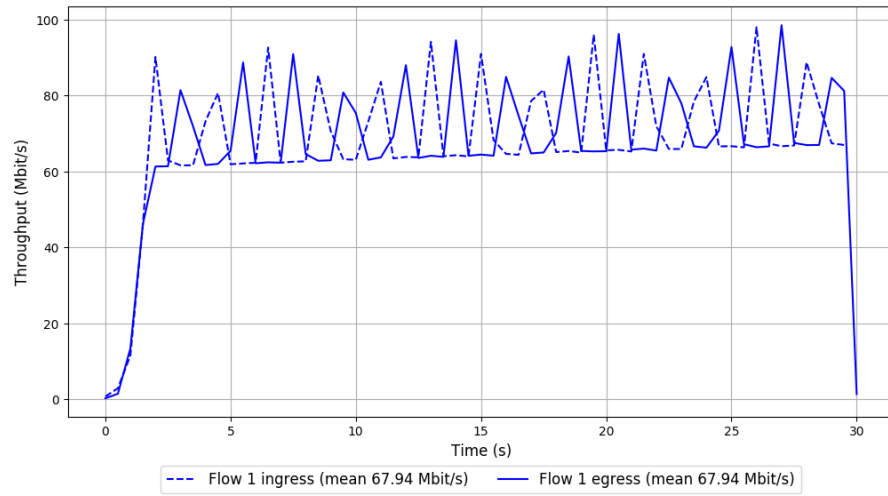
-- Flow 1:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 113.621 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-19 20:19:10

End at: 2018-02-19 20:19:40

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 115.385 ms

Loss rate: 0.00%

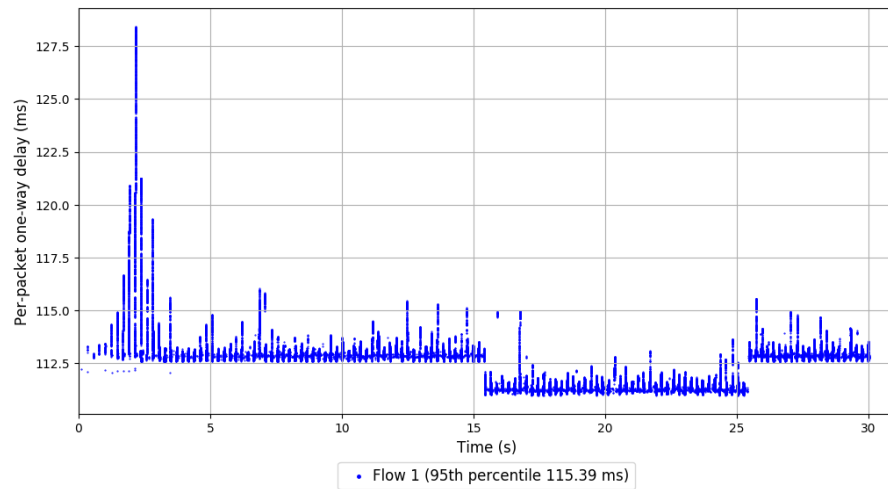
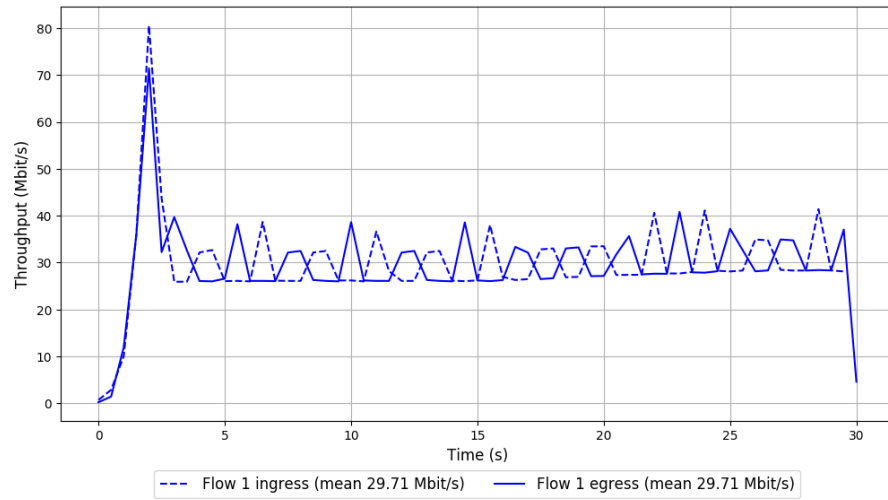
-- Flow 1:

Average throughput: 29.71 Mbit/s

95th percentile per-packet one-way delay: 115.385 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-19 20:34:39

End at: 2018-02-19 20:35:09

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.01 Mbit/s

95th percentile per-packet one-way delay: 120.472 ms

Loss rate: 0.03%

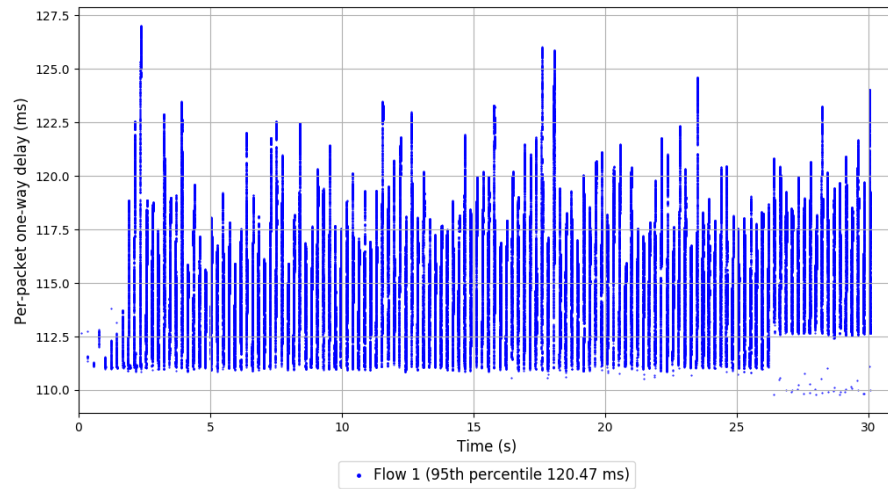
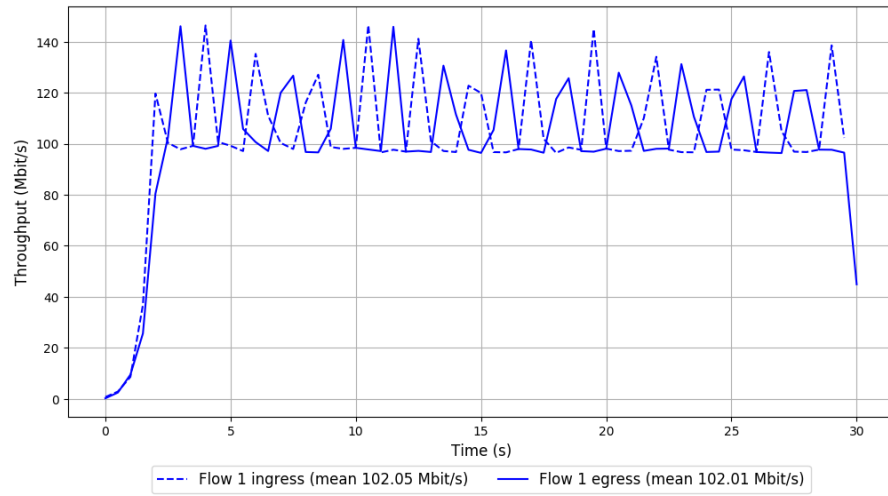
-- Flow 1:

Average throughput: 102.01 Mbit/s

95th percentile per-packet one-way delay: 120.472 ms

Loss rate: 0.03%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-19 20:50:18

End at: 2018-02-19 20:50:48

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 114.244 ms

Loss rate: 0.00%

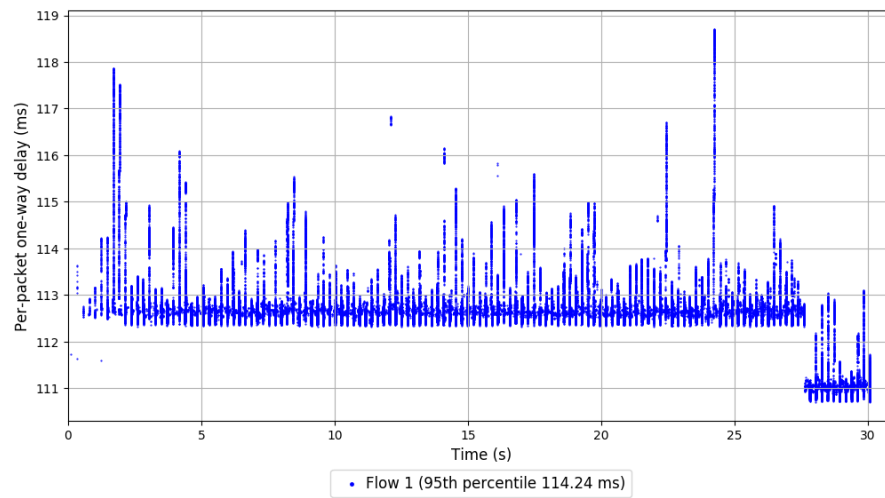
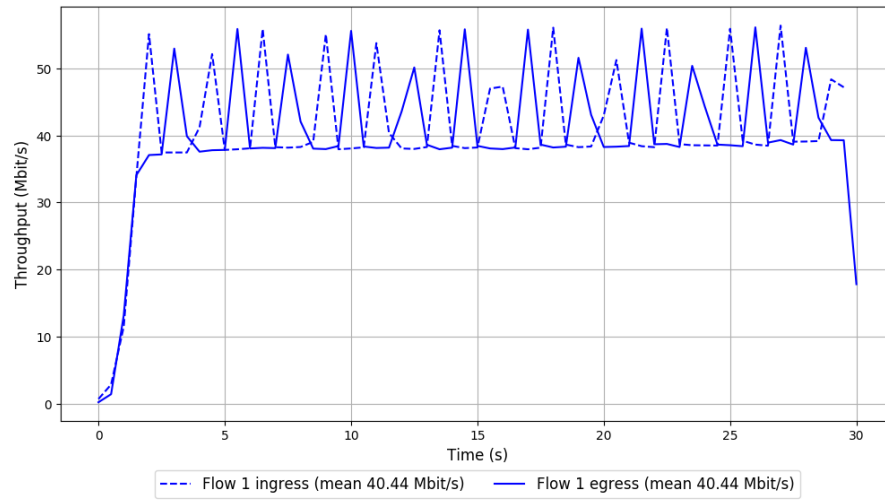
-- Flow 1:

Average throughput: 40.44 Mbit/s

95th percentile per-packet one-way delay: 114.244 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-19 21:05:19

End at: 2018-02-19 21:05:49

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.98 Mbit/s

95th percentile per-packet one-way delay: 121.061 ms

Loss rate: 0.00%

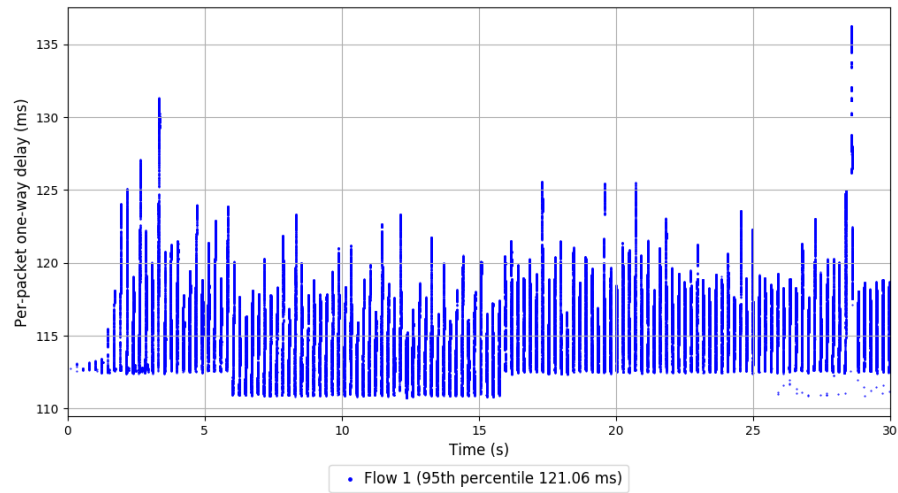
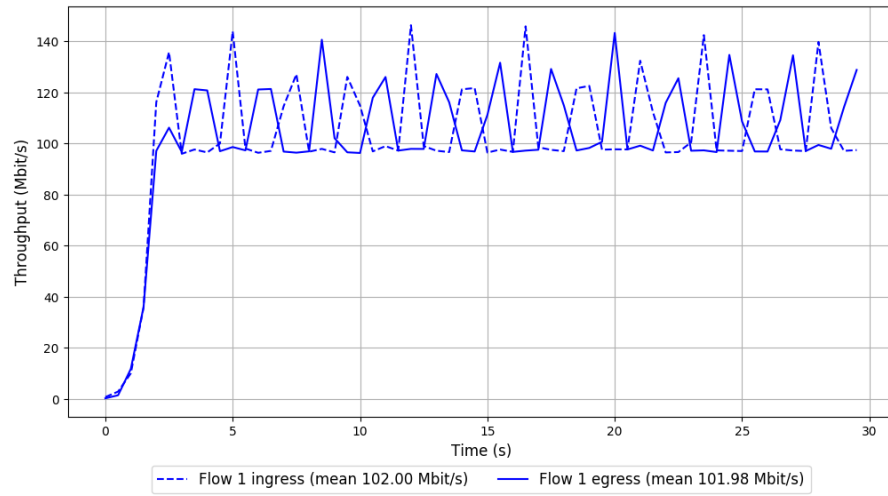
-- Flow 1:

Average throughput: 101.98 Mbit/s

95th percentile per-packet one-way delay: 121.061 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-19 21:20:45

End at: 2018-02-19 21:21:15

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.25 Mbit/s

95th percentile per-packet one-way delay: 122.340 ms

Loss rate: 0.00%

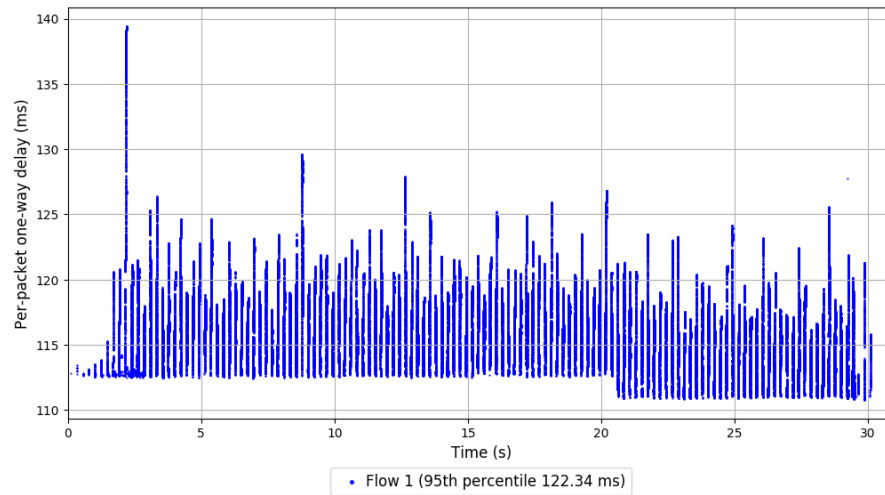
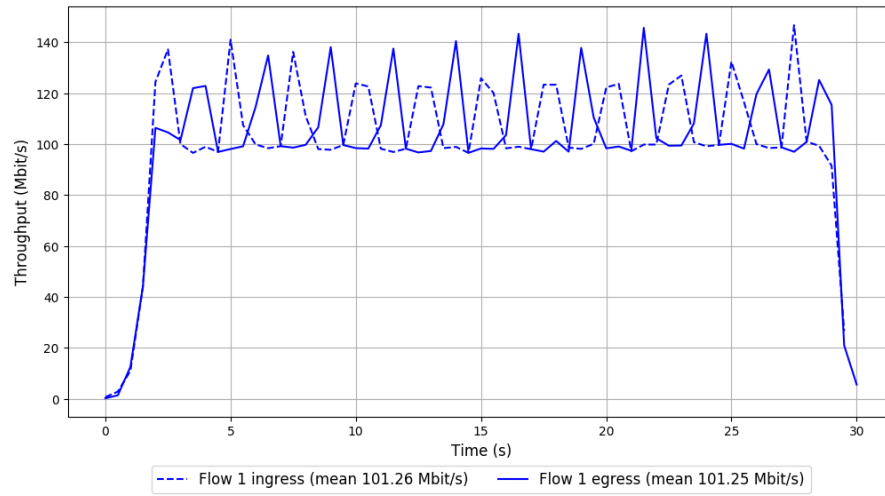
-- Flow 1:

Average throughput: 101.25 Mbit/s

95th percentile per-packet one-way delay: 122.340 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-19 21:36:20

End at: 2018-02-19 21:36:51

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 114.298 ms

Loss rate: 0.00%

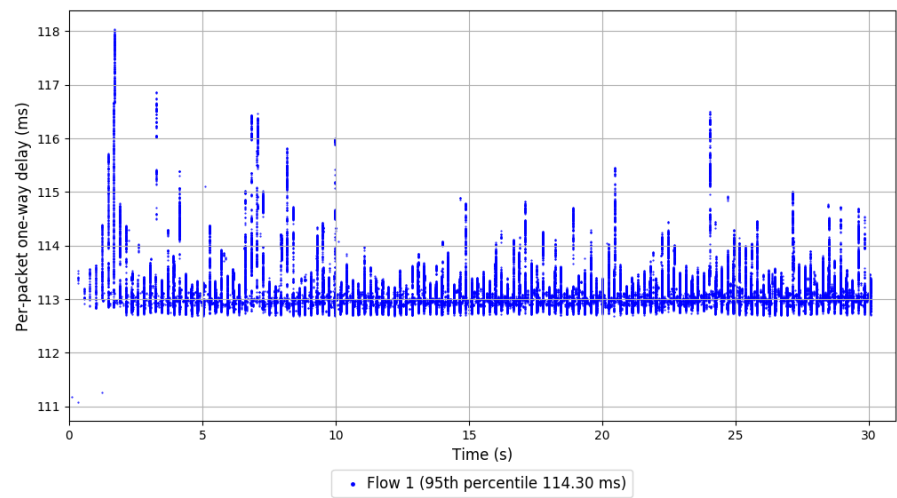
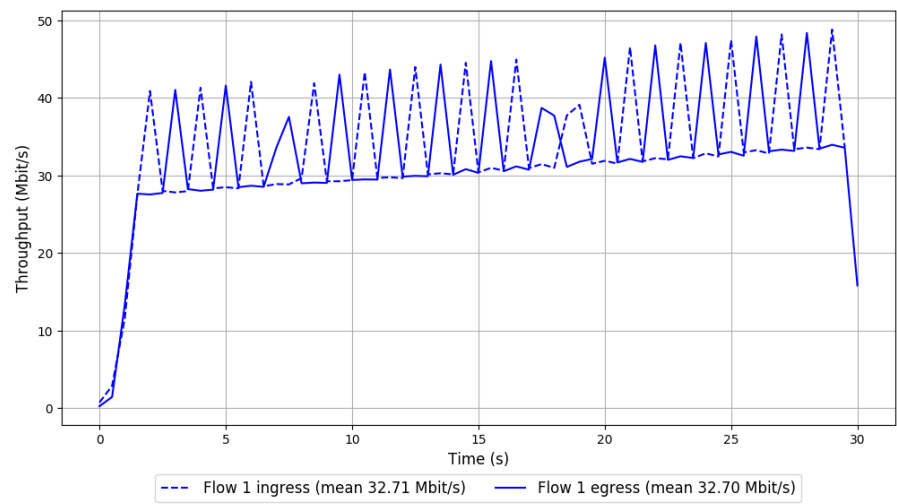
-- Flow 1:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 114.298 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-19 21:51:56

End at: 2018-02-19 21:52:26

Below is generated by plot.py at 2018-02-19 23:46:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 114.343 ms

Loss rate: 0.00%

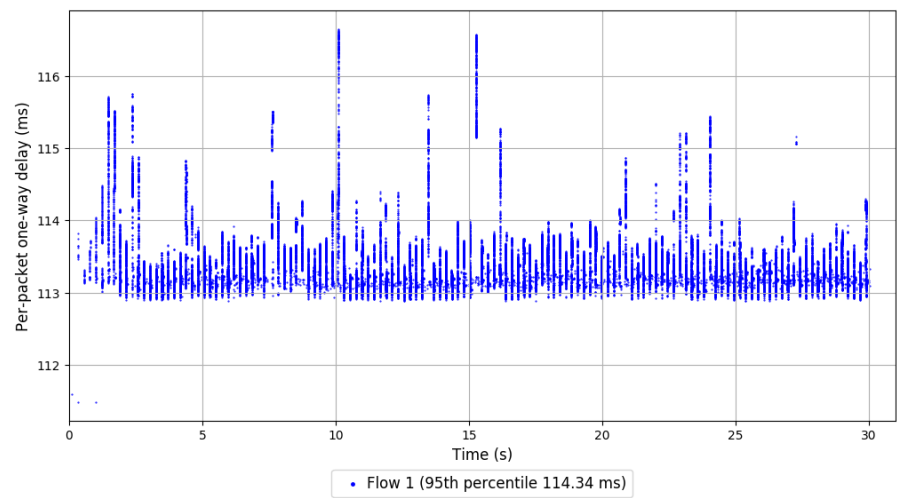
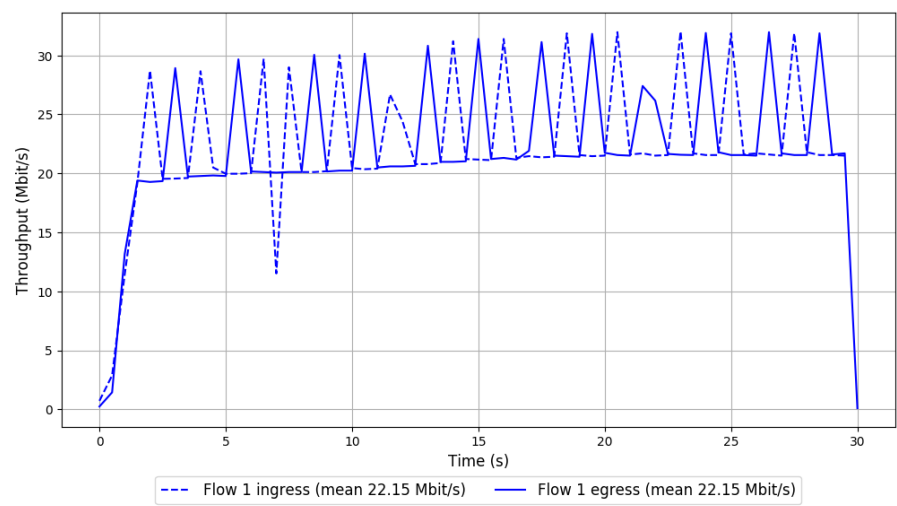
-- Flow 1:

Average throughput: 22.15 Mbit/s

95th percentile per-packet one-way delay: 114.343 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-19 19:25:32

End at: 2018-02-19 19:26:02

Below is generated by plot.py at 2018-02-19 23:47:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.77 Mbit/s

95th percentile per-packet one-way delay: 250.934 ms

Loss rate: 0.62%

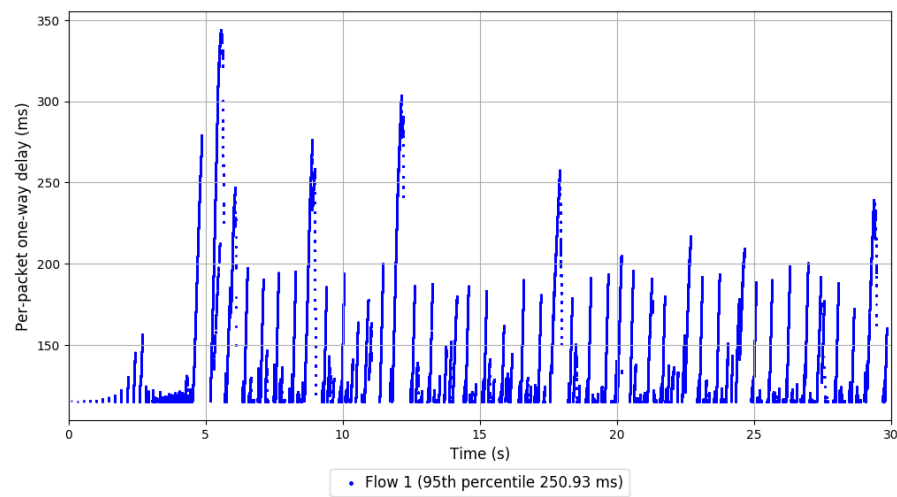
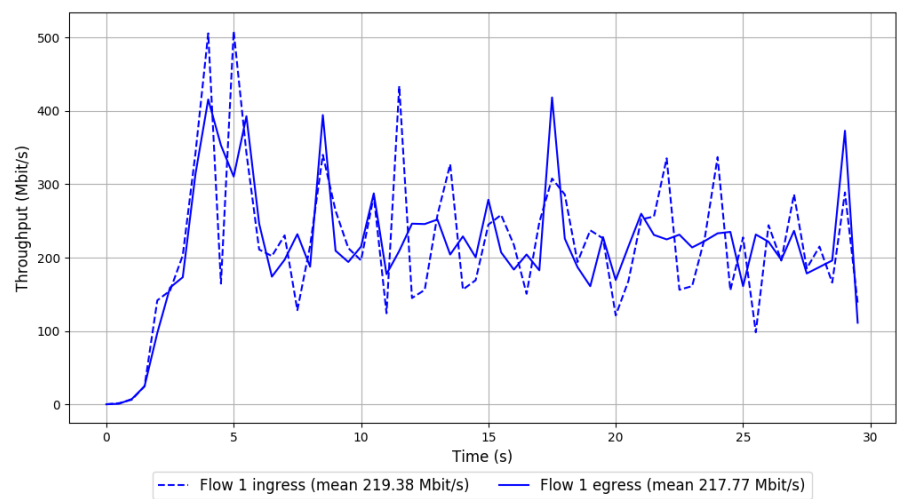
-- Flow 1:

Average throughput: 217.77 Mbit/s

95th percentile per-packet one-way delay: 250.934 ms

Loss rate: 0.62%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-19 19:40:55

End at: 2018-02-19 19:41:25

Below is generated by plot.py at 2018-02-19 23:47:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.43 Mbit/s

95th percentile per-packet one-way delay: 191.082 ms

Loss rate: 0.62%

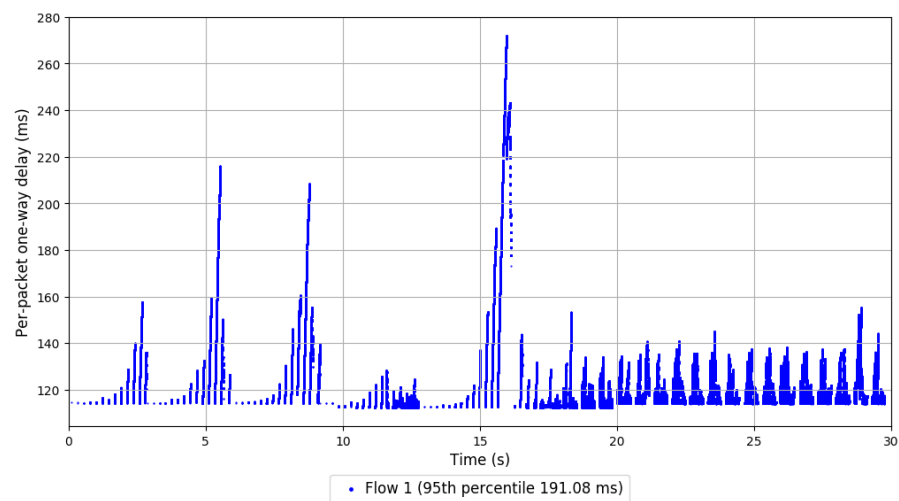
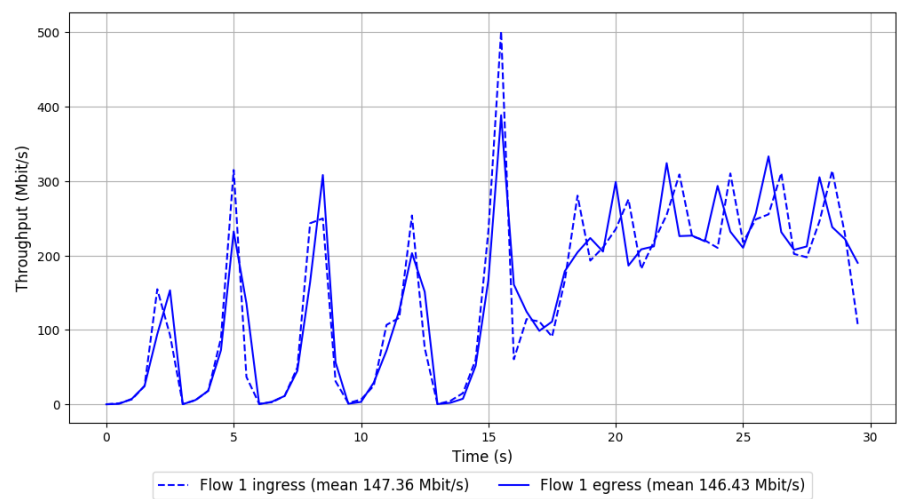
-- Flow 1:

Average throughput: 146.43 Mbit/s

95th percentile per-packet one-way delay: 191.082 ms

Loss rate: 0.62%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-19 19:56:40

End at: 2018-02-19 19:57:10

Below is generated by plot.py at 2018-02-19 23:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.60 Mbit/s

95th percentile per-packet one-way delay: 307.082 ms

Loss rate: 3.28%

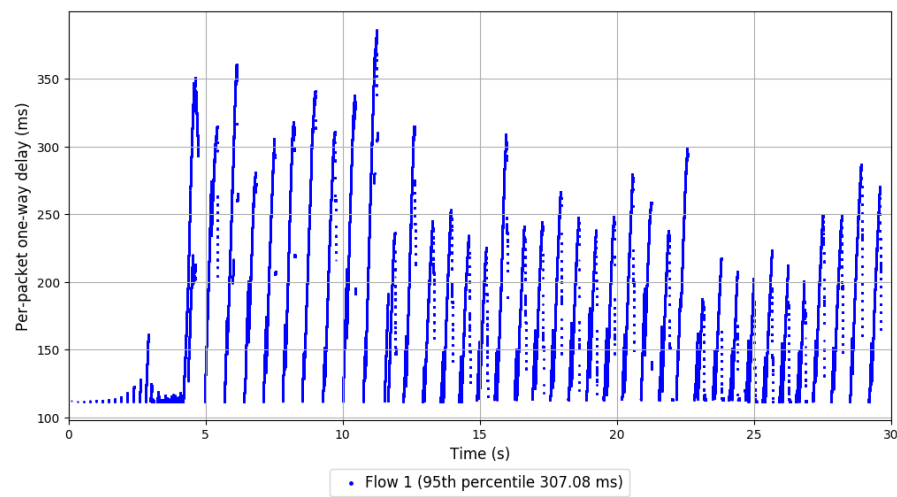
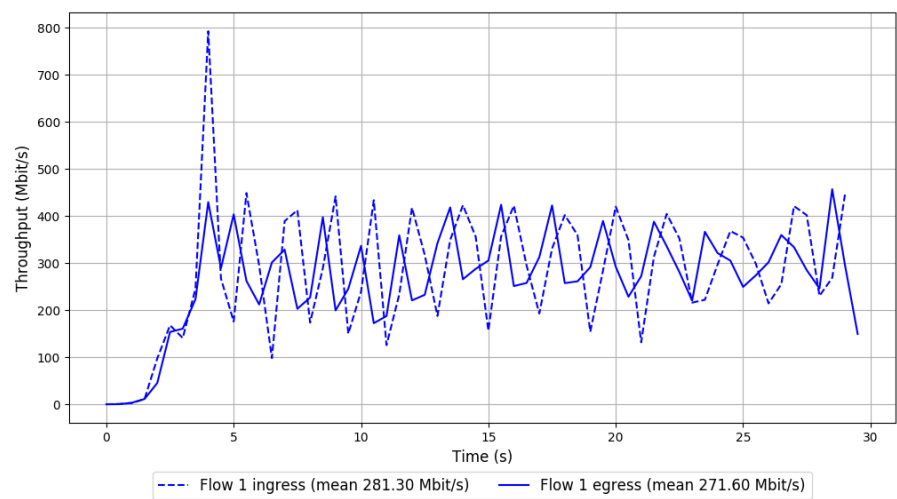
-- Flow 1:

Average throughput: 271.60 Mbit/s

95th percentile per-packet one-way delay: 307.082 ms

Loss rate: 3.28%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-19 20:12:23

End at: 2018-02-19 20:12:53

Below is generated by plot.py at 2018-02-19 23:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.56 Mbit/s

95th percentile per-packet one-way delay: 152.972 ms

Loss rate: 0.00%

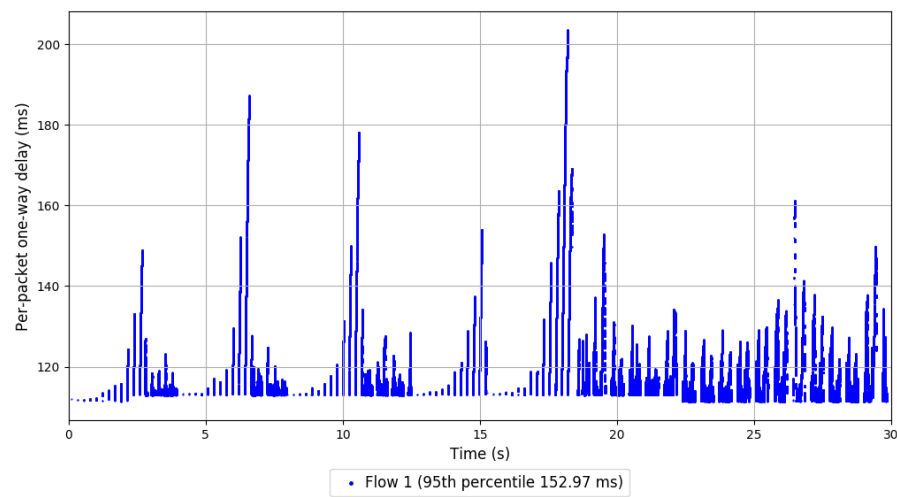
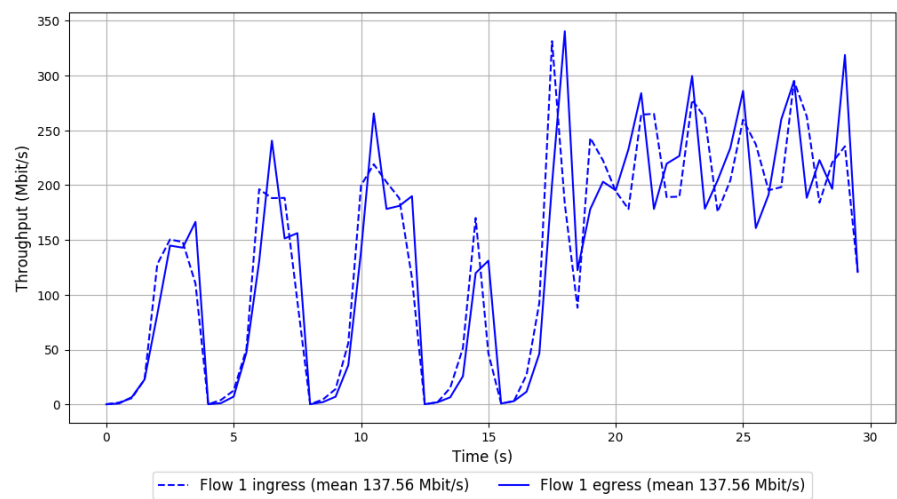
-- Flow 1:

Average throughput: 137.56 Mbit/s

95th percentile per-packet one-way delay: 152.972 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-19 20:27:23

End at: 2018-02-19 20:27:53

Below is generated by plot.py at 2018-02-19 23:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.18 Mbit/s

95th percentile per-packet one-way delay: 158.756 ms

Loss rate: 0.03%

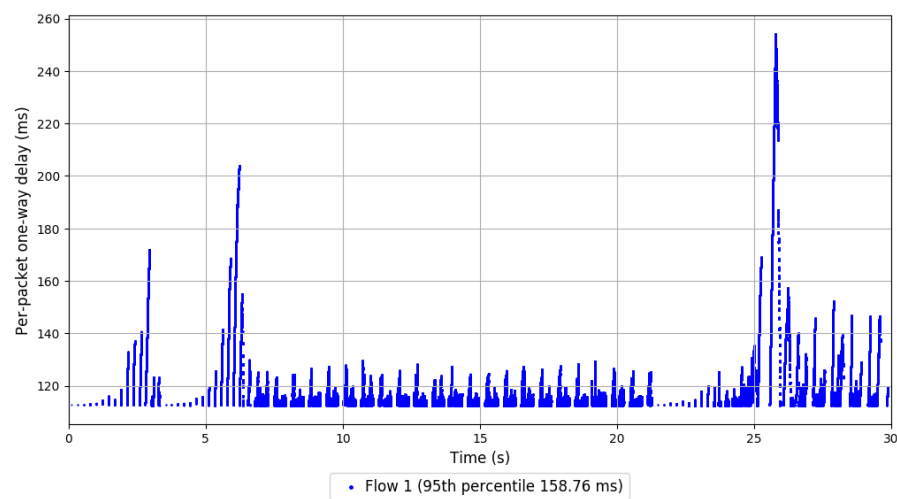
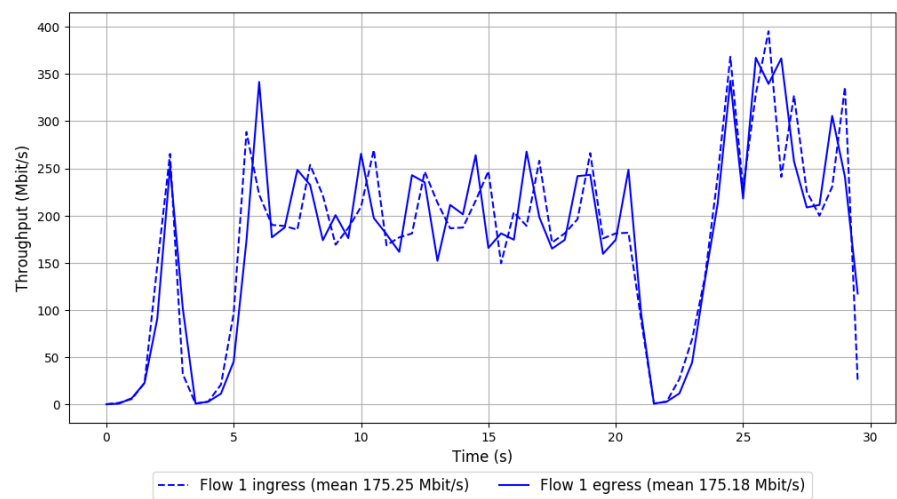
-- Flow 1:

Average throughput: 175.18 Mbit/s

95th percentile per-packet one-way delay: 158.756 ms

Loss rate: 0.03%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-19 20:43:07

End at: 2018-02-19 20:43:37

Below is generated by plot.py at 2018-02-19 23:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.32 Mbit/s

95th percentile per-packet one-way delay: 147.224 ms

Loss rate: 0.00%

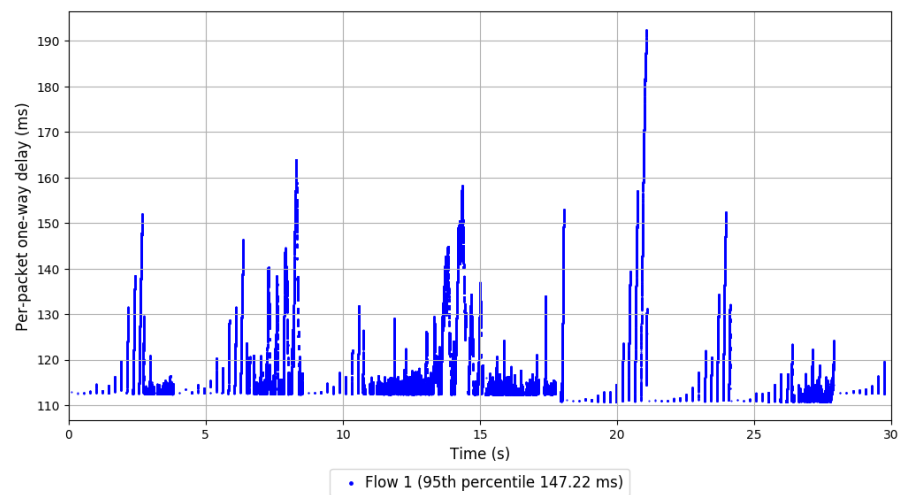
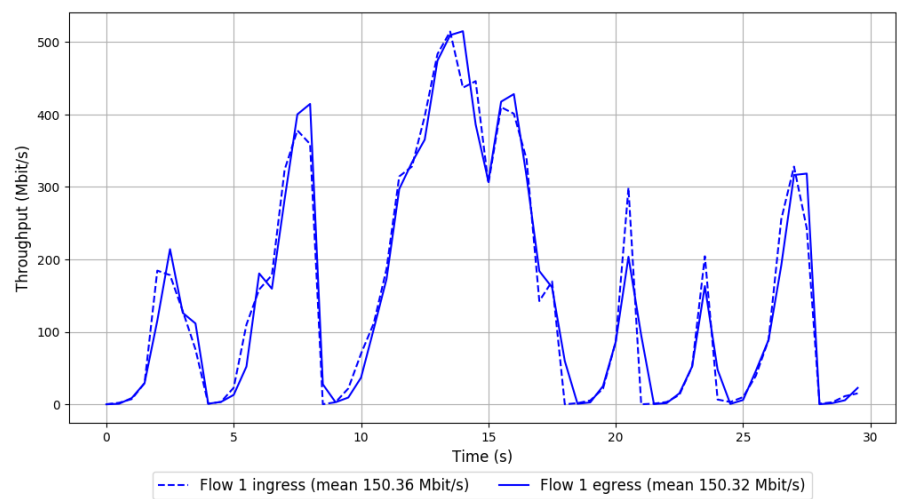
-- Flow 1:

Average throughput: 150.32 Mbit/s

95th percentile per-packet one-way delay: 147.224 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-19 20:58:29

End at: 2018-02-19 20:58:59

Below is generated by plot.py at 2018-02-19 23:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.57 Mbit/s

95th percentile per-packet one-way delay: 165.818 ms

Loss rate: 0.00%

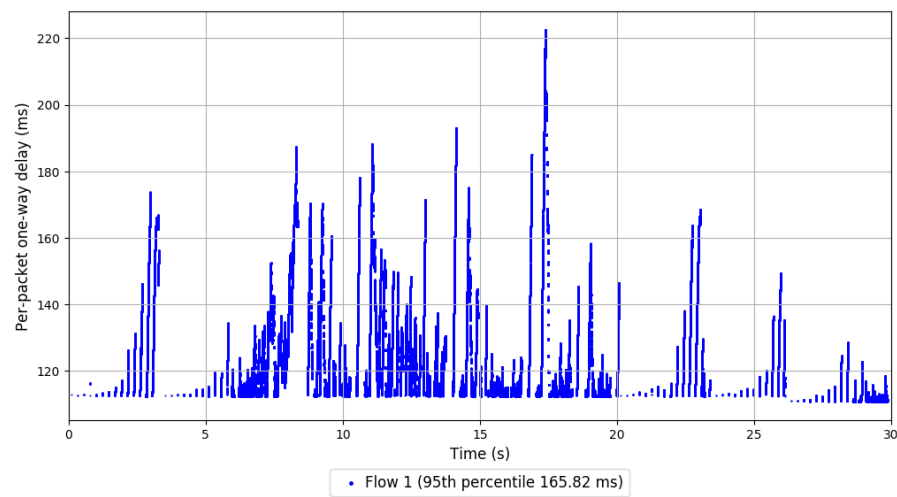
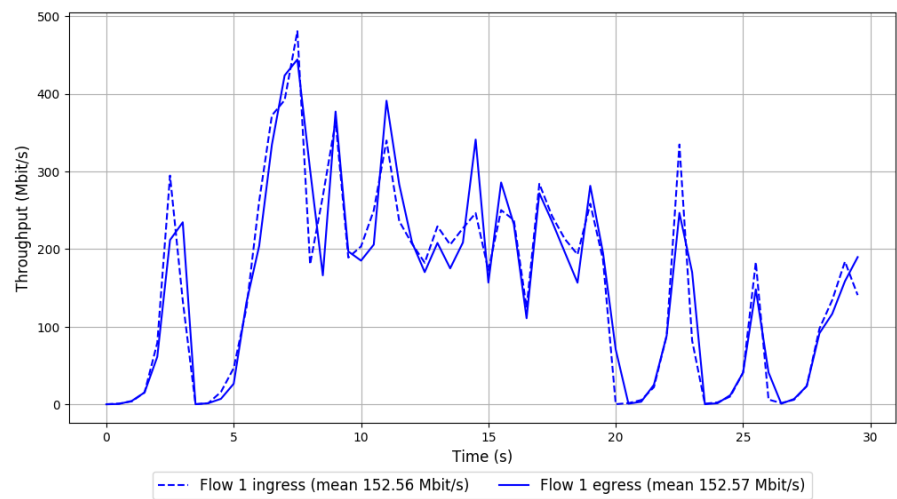
-- Flow 1:

Average throughput: 152.57 Mbit/s

95th percentile per-packet one-way delay: 165.818 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-19 21:13:46

End at: 2018-02-19 21:14:16

Below is generated by plot.py at 2018-02-19 23:48:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 143.000 ms

Loss rate: 0.00%

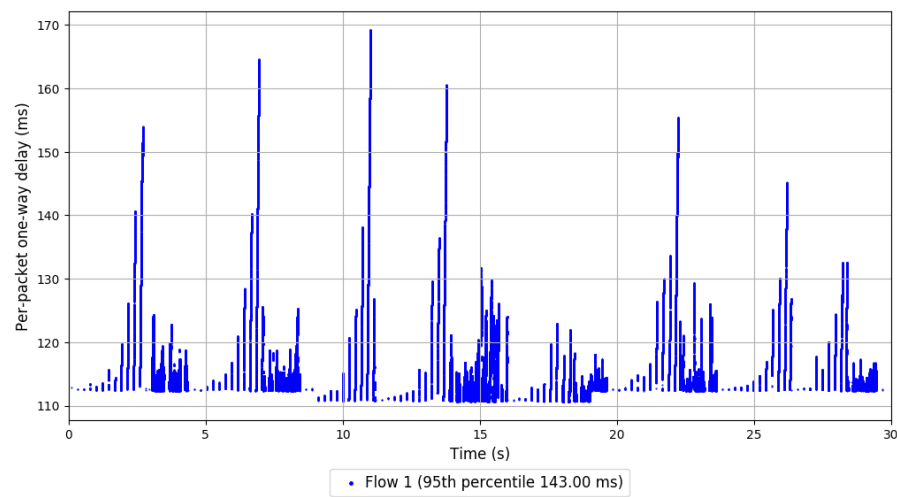
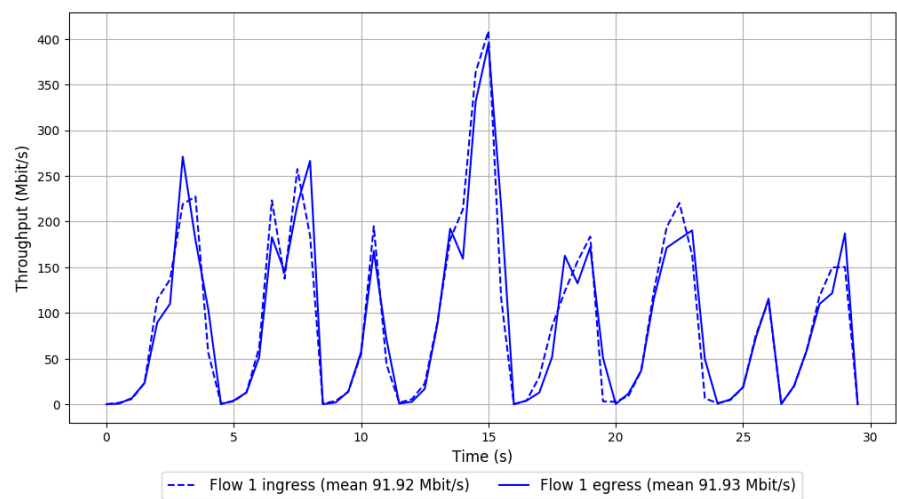
-- Flow 1:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 143.000 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-19 21:29:03

End at: 2018-02-19 21:29:33

Below is generated by plot.py at 2018-02-19 23:48:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.36 Mbit/s

95th percentile per-packet one-way delay: 186.547 ms

Loss rate: 0.51%

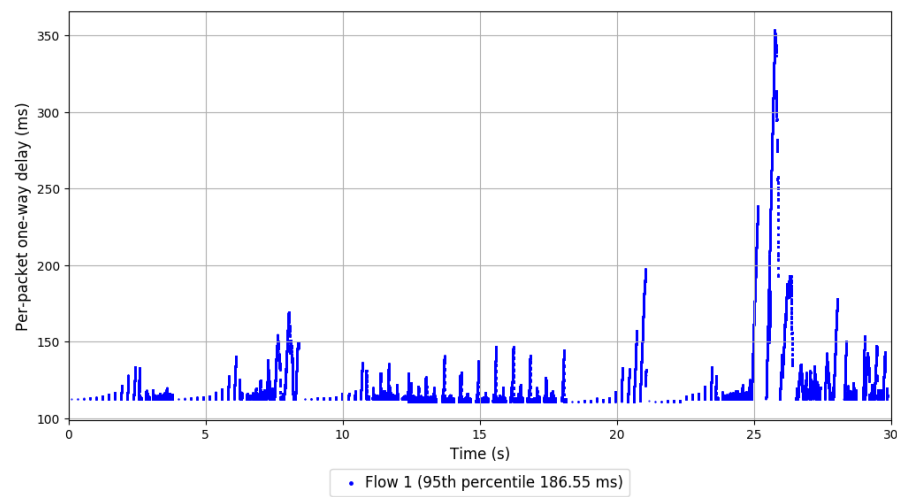
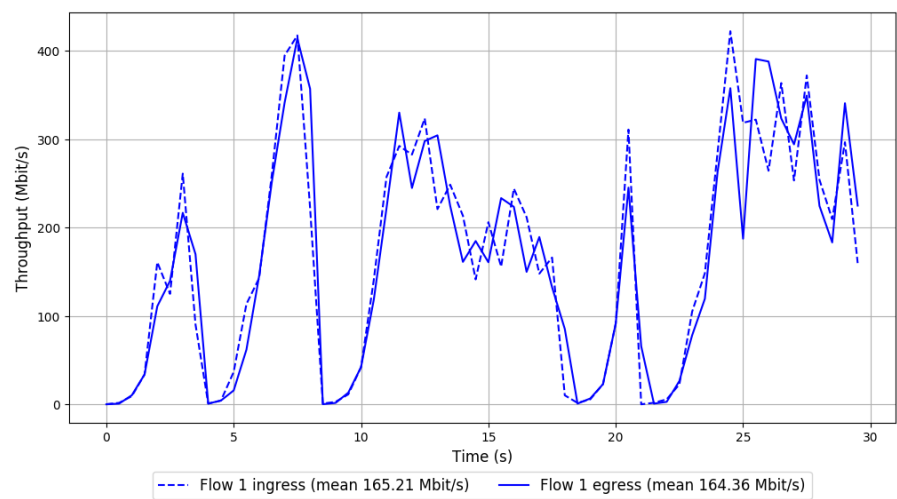
-- Flow 1:

Average throughput: 164.36 Mbit/s

95th percentile per-packet one-way delay: 186.547 ms

Loss rate: 0.51%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-19 21:44:36

End at: 2018-02-19 21:45:06

Below is generated by plot.py at 2018-02-19 23:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.32 Mbit/s

95th percentile per-packet one-way delay: 154.020 ms

Loss rate: 0.00%

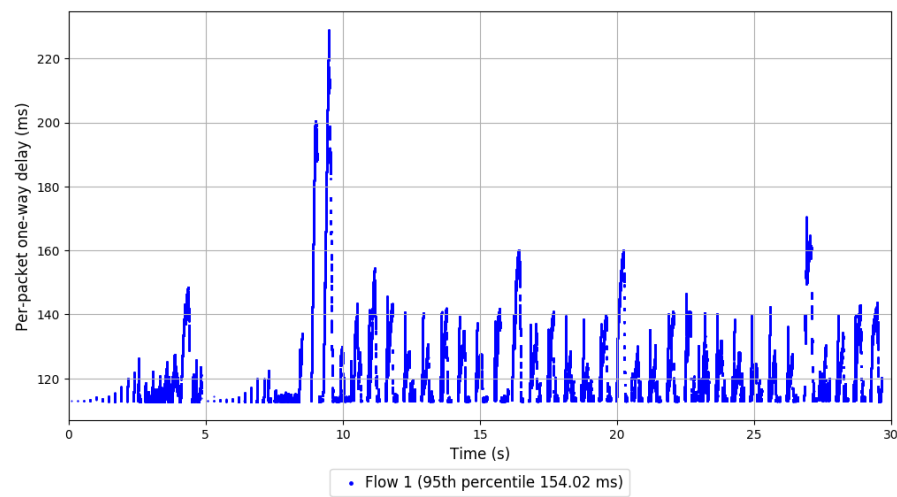
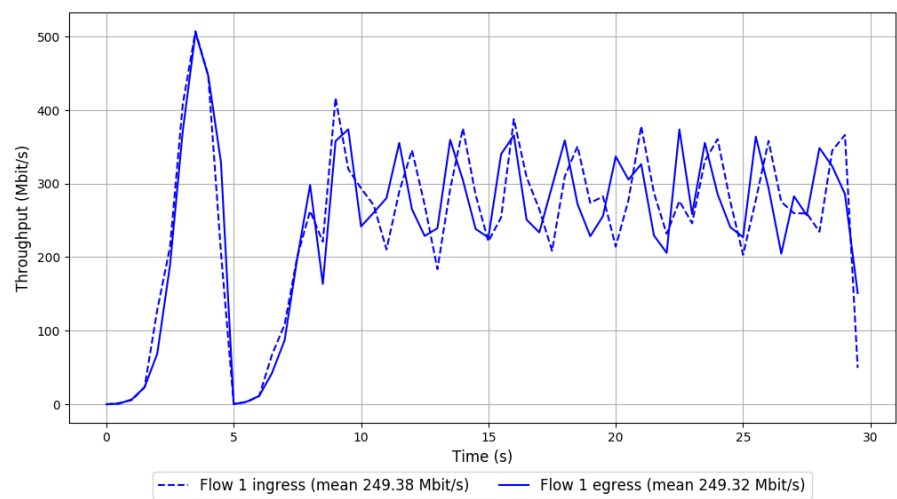
-- Flow 1:

Average throughput: 249.32 Mbit/s

95th percentile per-packet one-way delay: 154.020 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-19 19:30:54

End at: 2018-02-19 19:31:24

Below is generated by plot.py at 2018-02-19 23:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.34 Mbit/s

95th percentile per-packet one-way delay: 115.242 ms

Loss rate: 0.00%

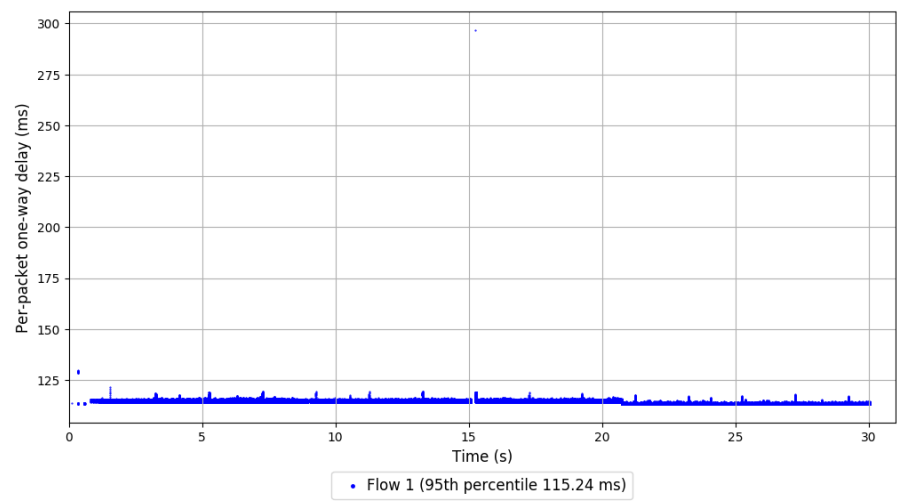
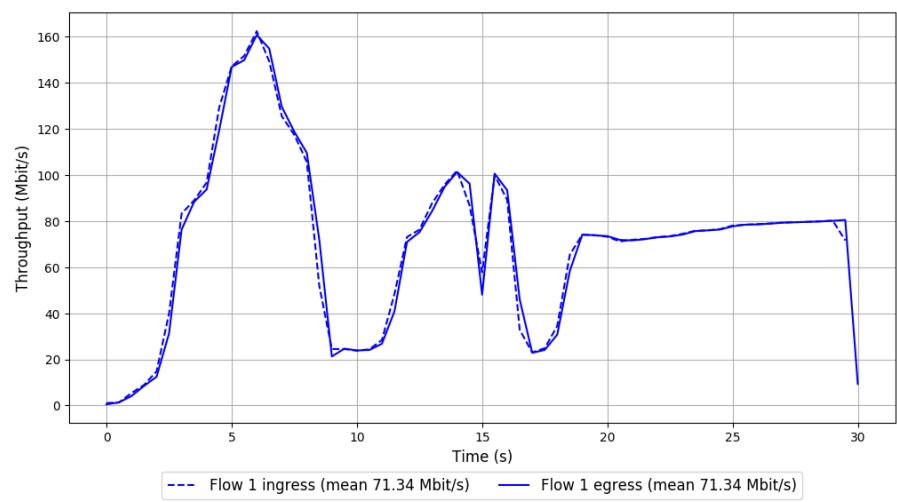
-- Flow 1:

Average throughput: 71.34 Mbit/s

95th percentile per-packet one-way delay: 115.242 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-19 19:46:23

End at: 2018-02-19 19:46:53

Below is generated by plot.py at 2018-02-19 23:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.44 Mbit/s

95th percentile per-packet one-way delay: 115.996 ms

Loss rate: 0.00%

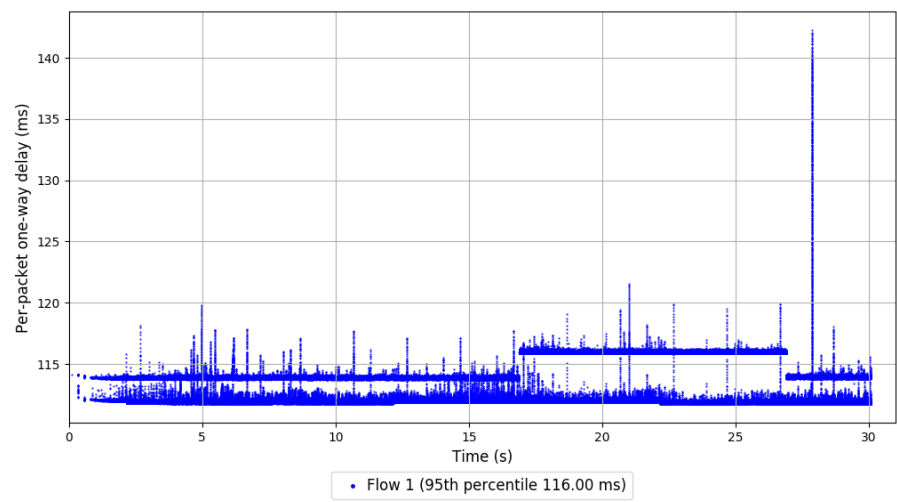
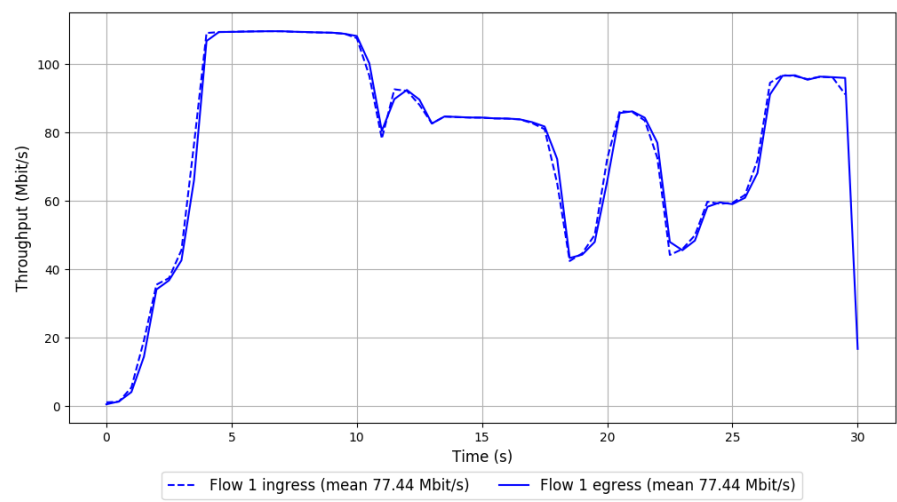
-- Flow 1:

Average throughput: 77.44 Mbit/s

95th percentile per-packet one-way delay: 115.996 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-19 20:02:18

End at: 2018-02-19 20:02:48

Below is generated by plot.py at 2018-02-19 23:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 113.902 ms

Loss rate: 0.00%

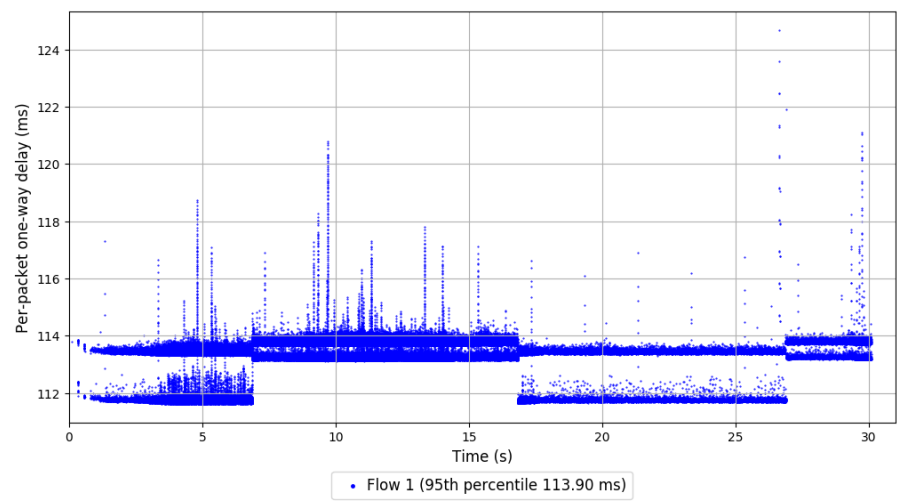
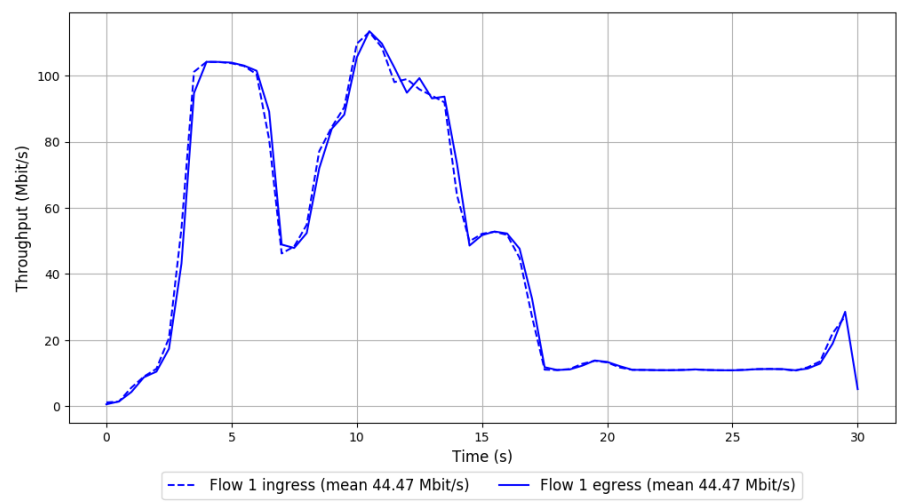
-- Flow 1:

Average throughput: 44.47 Mbit/s

95th percentile per-packet one-way delay: 113.902 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-19 20:17:22

End at: 2018-02-19 20:17:52

Below is generated by plot.py at 2018-02-19 23:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.38 Mbit/s

95th percentile per-packet one-way delay: 112.982 ms

Loss rate: 0.00%

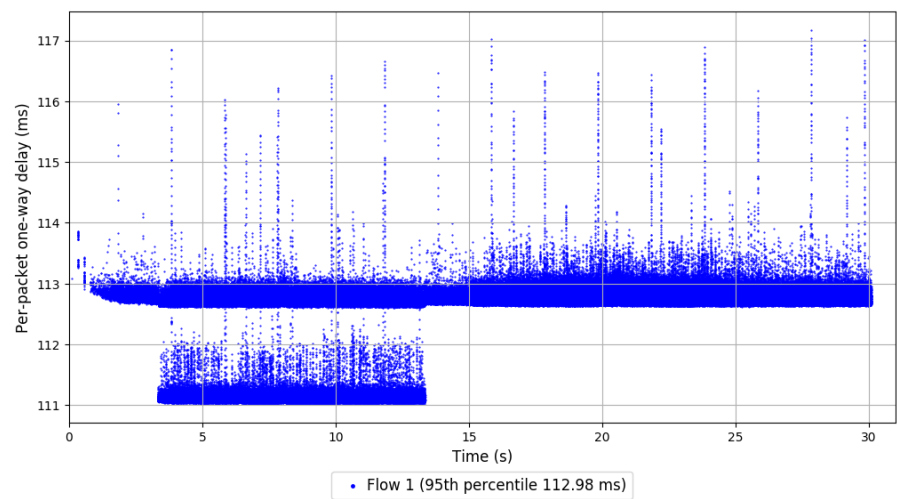
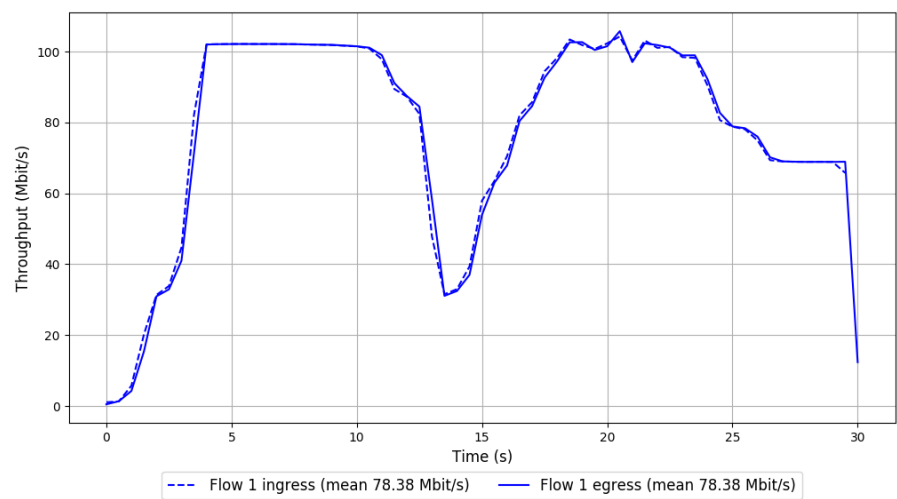
-- Flow 1:

Average throughput: 78.38 Mbit/s

95th percentile per-packet one-way delay: 112.982 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-19 20:32:54

End at: 2018-02-19 20:33:24

Below is generated by plot.py at 2018-02-19 23:50:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.40 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 0.00%

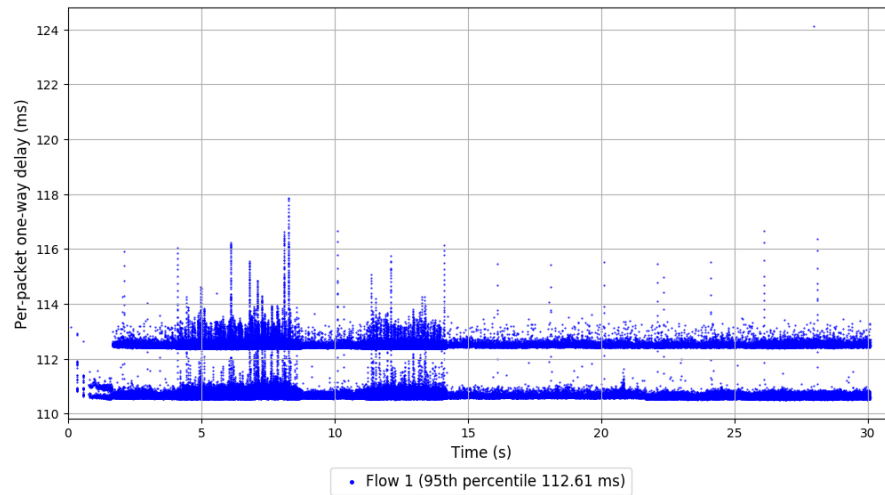
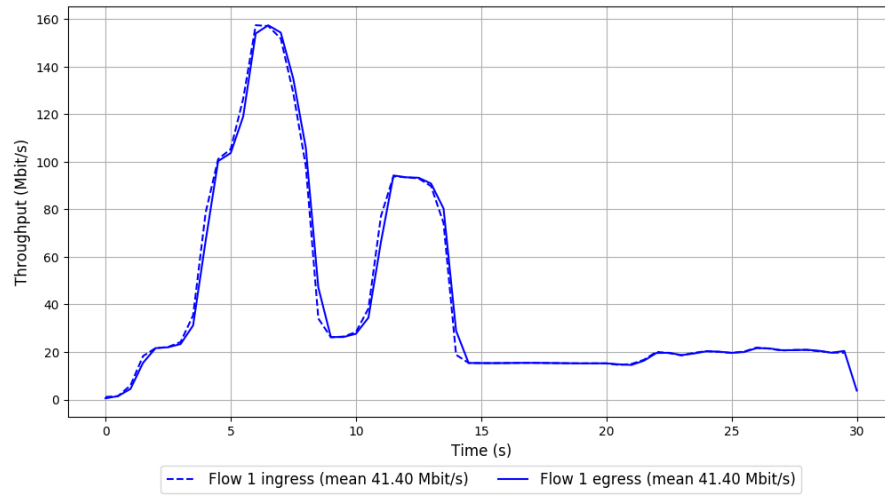
-- Flow 1:

Average throughput: 41.40 Mbit/s

95th percentile per-packet one-way delay: 112.615 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-19 20:48:28

End at: 2018-02-19 20:48:59

Below is generated by plot.py at 2018-02-19 23:50:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.39 Mbit/s

95th percentile per-packet one-way delay: 112.580 ms

Loss rate: 0.00%

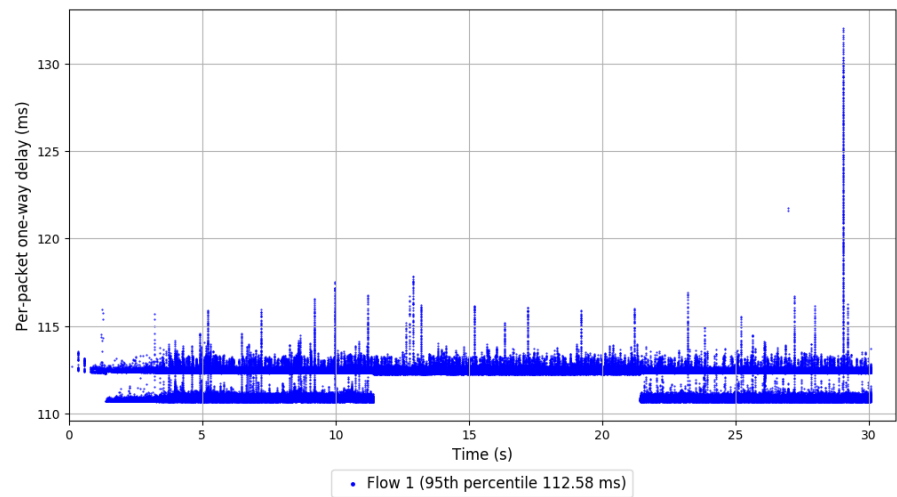
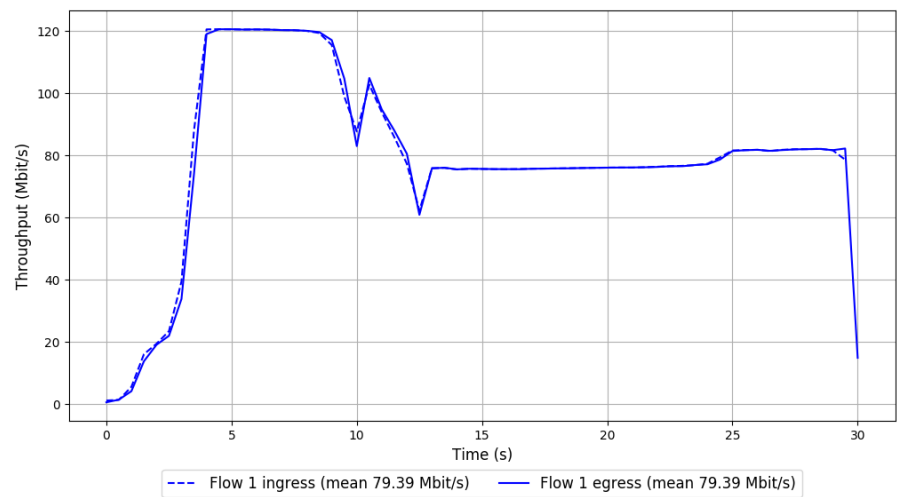
-- Flow 1:

Average throughput: 79.39 Mbit/s

95th percentile per-packet one-way delay: 112.580 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-19 21:03:33

End at: 2018-02-19 21:04:03

Below is generated by plot.py at 2018-02-19 23:50:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.26 Mbit/s

95th percentile per-packet one-way delay: 112.608 ms

Loss rate: 0.00%

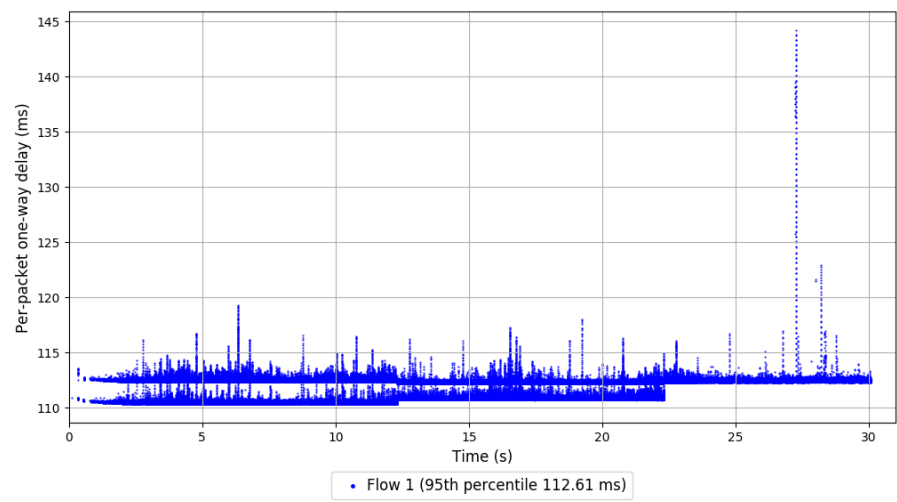
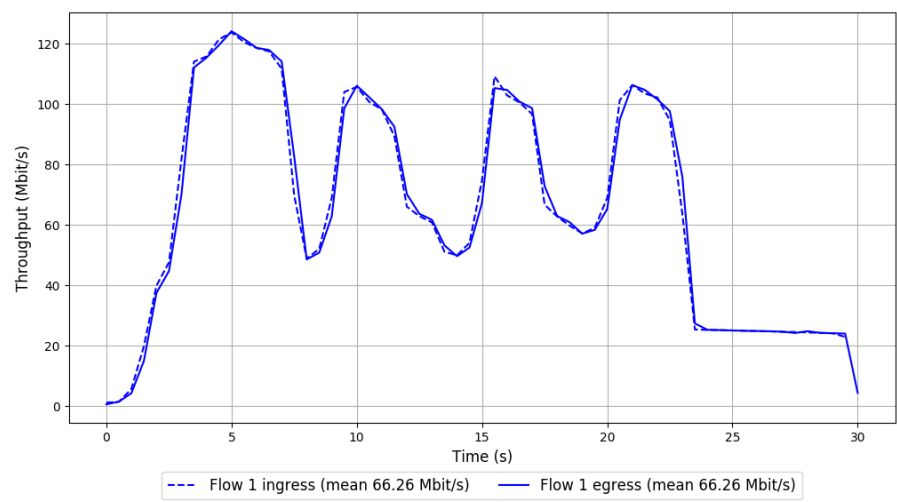
-- Flow 1:

Average throughput: 66.26 Mbit/s

95th percentile per-packet one-way delay: 112.608 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-19 21:18:58

End at: 2018-02-19 21:19:28

Below is generated by plot.py at 2018-02-19 23:50:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 112.813 ms

Loss rate: 0.00%

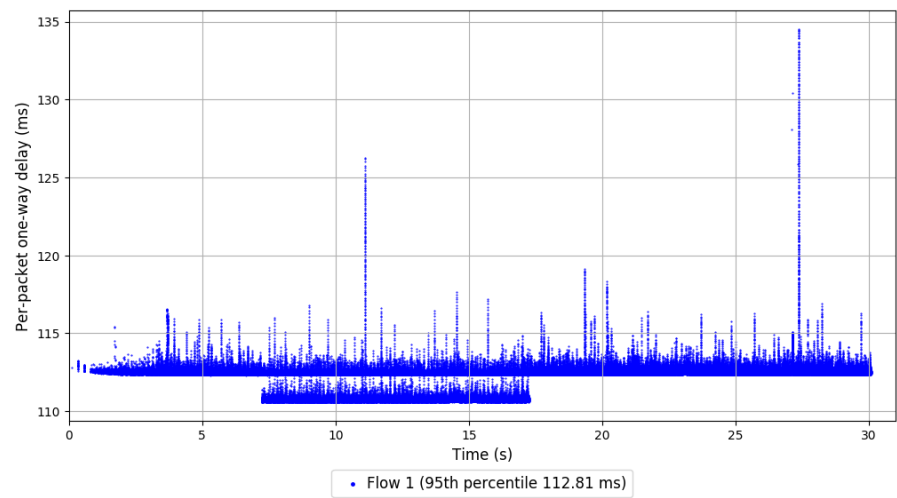
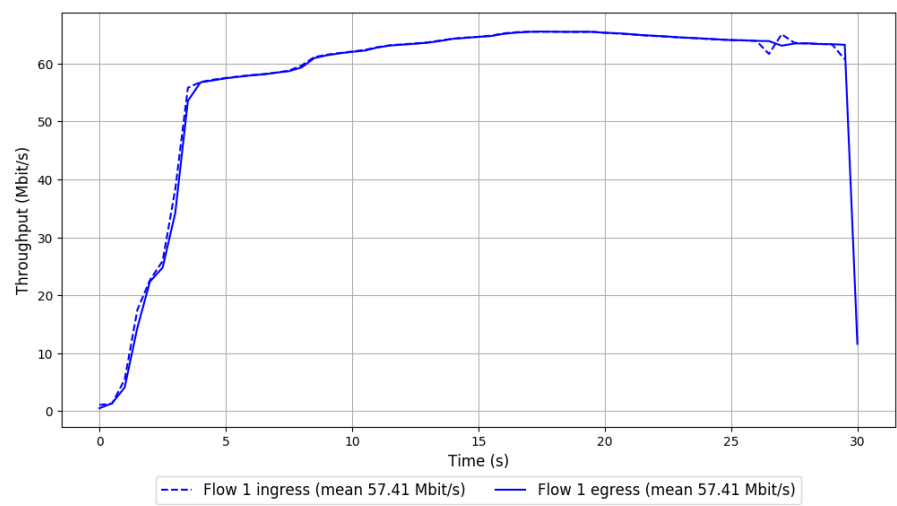
-- Flow 1:

Average throughput: 57.41 Mbit/s

95th percentile per-packet one-way delay: 112.813 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-19 21:34:32

End at: 2018-02-19 21:35:02

Below is generated by plot.py at 2018-02-19 23:51:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 112.945 ms

Loss rate: 0.00%

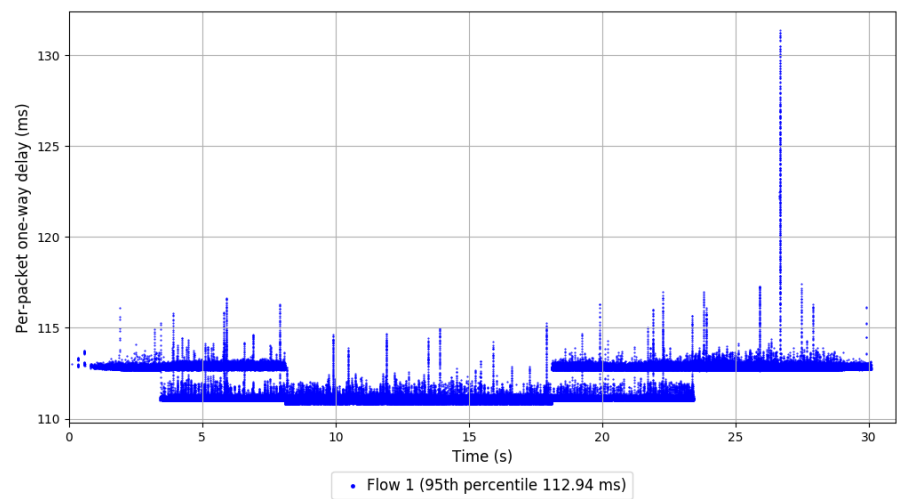
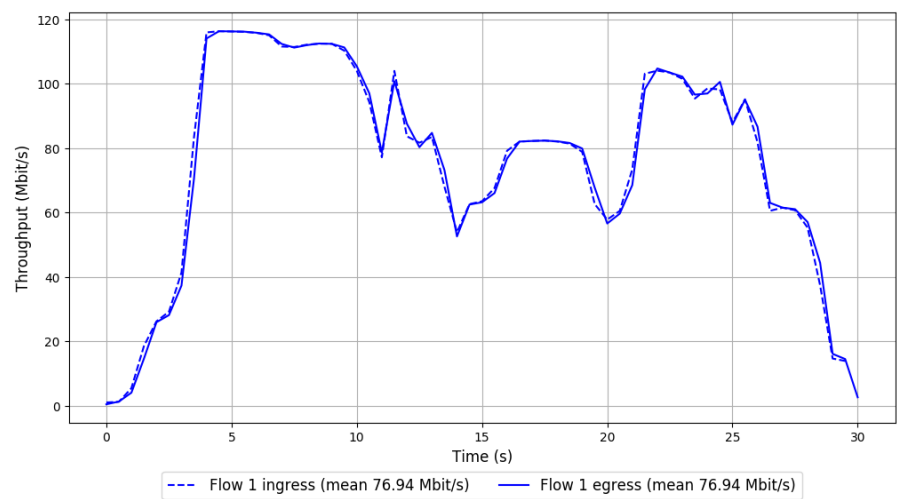
-- Flow 1:

Average throughput: 76.94 Mbit/s

95th percentile per-packet one-way delay: 112.945 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-19 21:50:08

End at: 2018-02-19 21:50:38

Below is generated by plot.py at 2018-02-19 23:51:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 113.114 ms

Loss rate: 0.00%

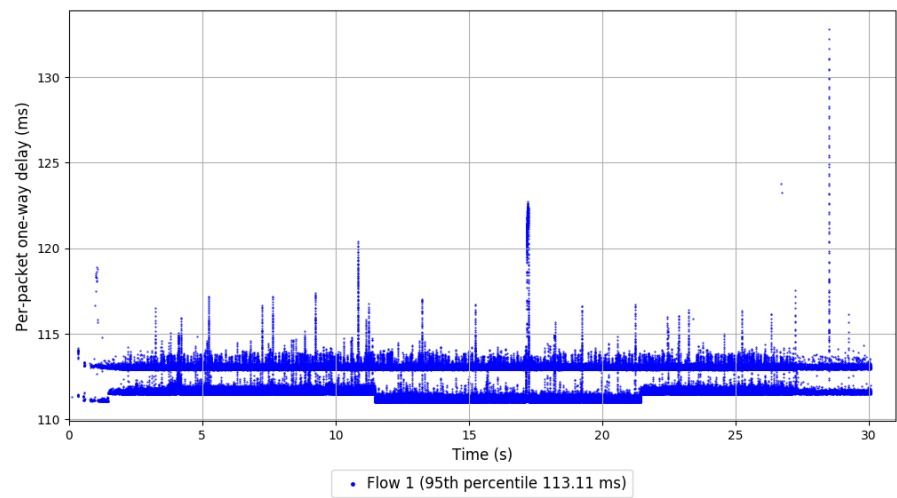
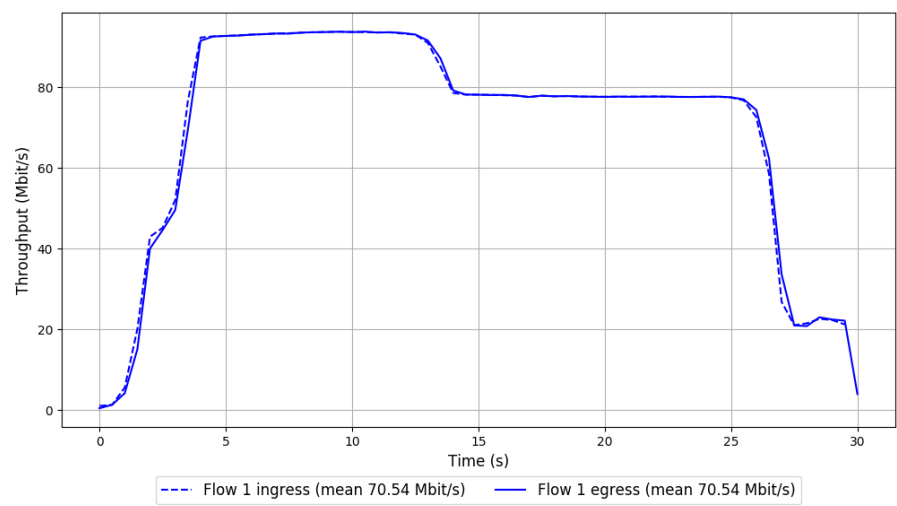
-- Flow 1:

Average throughput: 70.54 Mbit/s

95th percentile per-packet one-way delay: 113.114 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

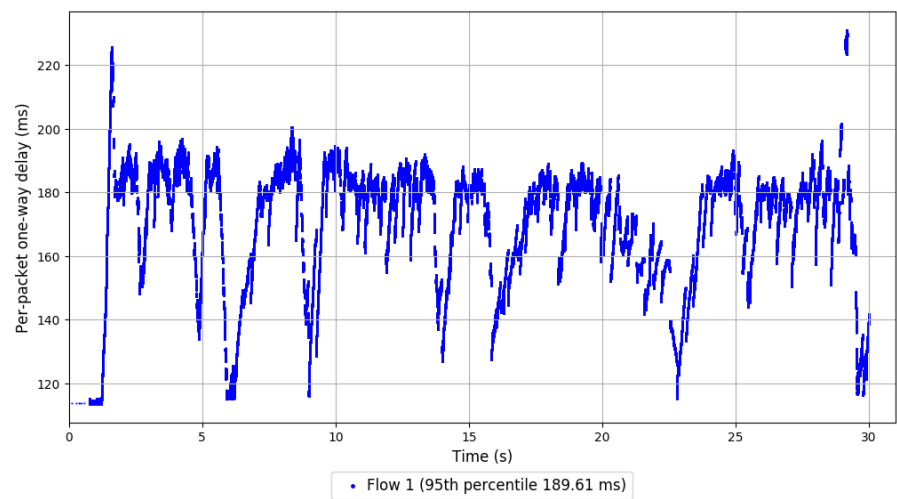
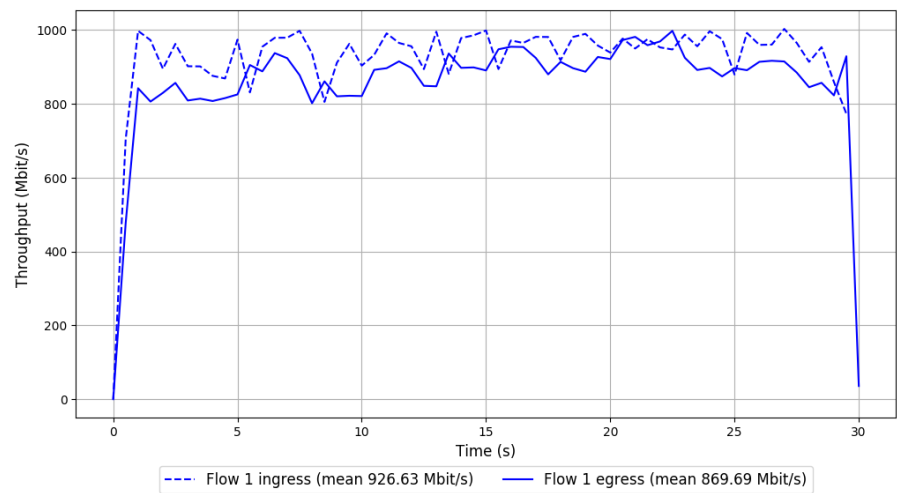


```
Run 1: Statistics of FillP

Start at: 2018-02-19 19:29:40
End at: 2018-02-19 19:30:10

# Below is generated by plot.py at 2018-02-20 00:05:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 869.69 Mbit/s
95th percentile per-packet one-way delay: 189.608 ms
Loss rate: 6.14%
-- Flow 1:
Average throughput: 869.69 Mbit/s
95th percentile per-packet one-way delay: 189.608 ms
Loss rate: 6.14%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-19 19:45:06

End at: 2018-02-19 19:45:36

Below is generated by plot.py at 2018-02-20 00:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 935.87 Mbit/s

95th percentile per-packet one-way delay: 189.369 ms

Loss rate: 0.94%

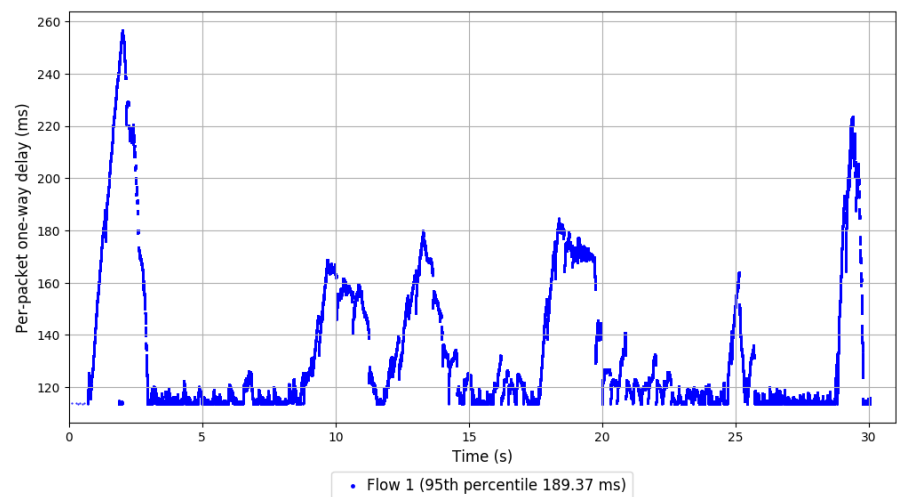
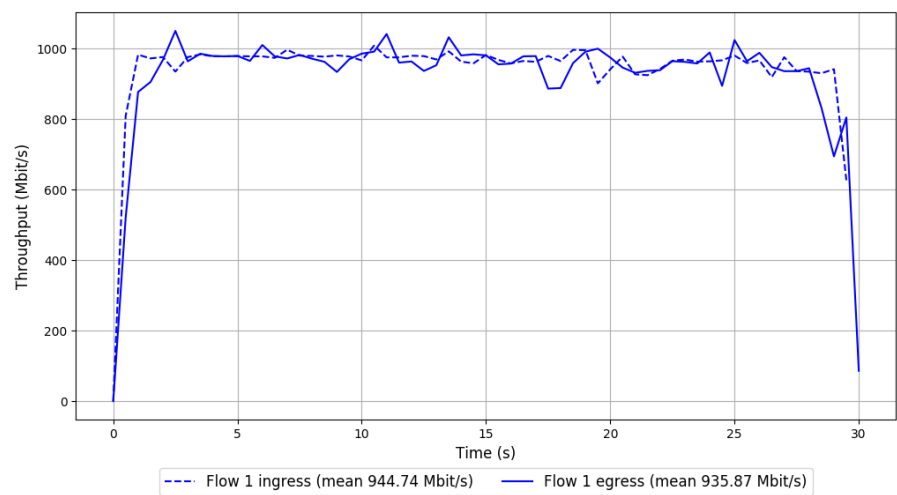
-- Flow 1:

Average throughput: 935.87 Mbit/s

95th percentile per-packet one-way delay: 189.369 ms

Loss rate: 0.94%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-19 20:01:02

End at: 2018-02-19 20:01:33

Below is generated by plot.py at 2018-02-20 00:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 889.89 Mbit/s

95th percentile per-packet one-way delay: 192.765 ms

Loss rate: 4.38%

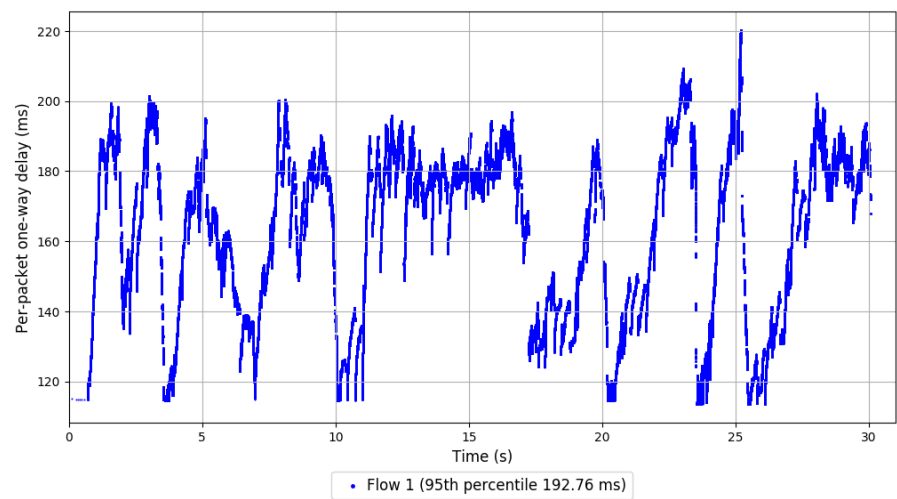
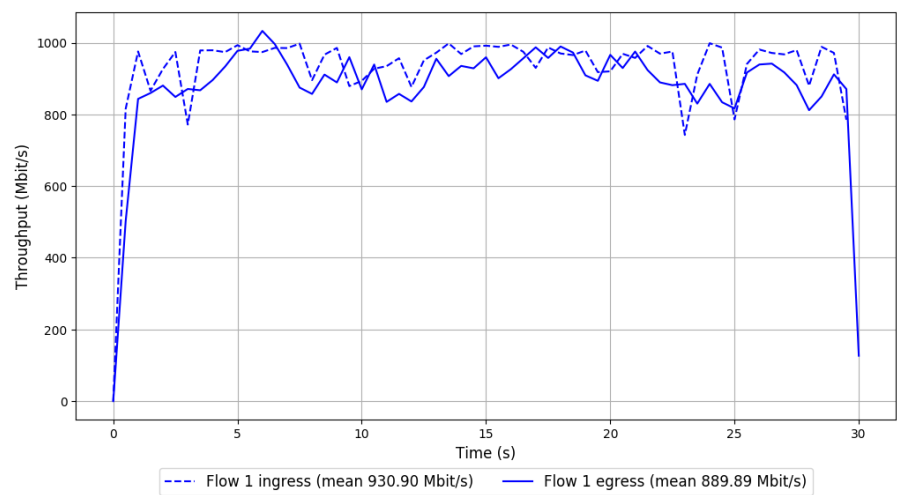
-- Flow 1:

Average throughput: 889.89 Mbit/s

95th percentile per-packet one-way delay: 192.765 ms

Loss rate: 4.38%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-19 20:16:08

End at: 2018-02-19 20:16:38

Below is generated by plot.py at 2018-02-20 00:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 835.93 Mbit/s

95th percentile per-packet one-way delay: 199.303 ms

Loss rate: 7.97%

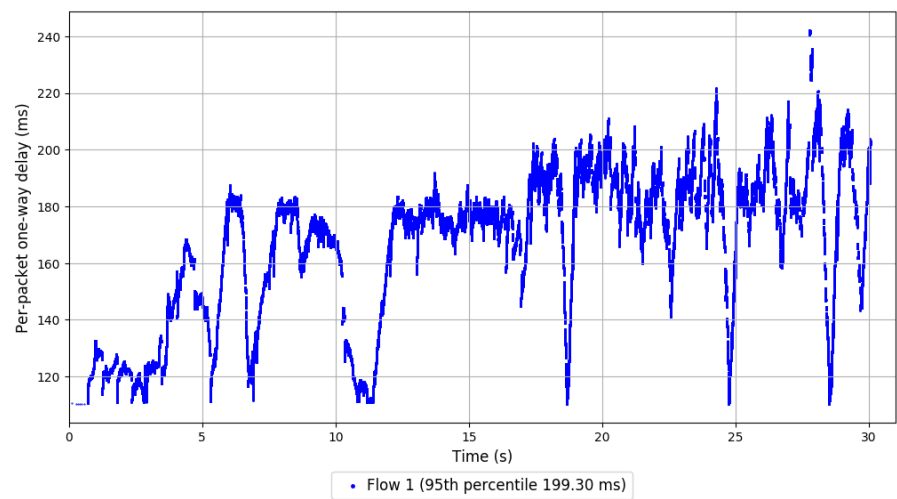
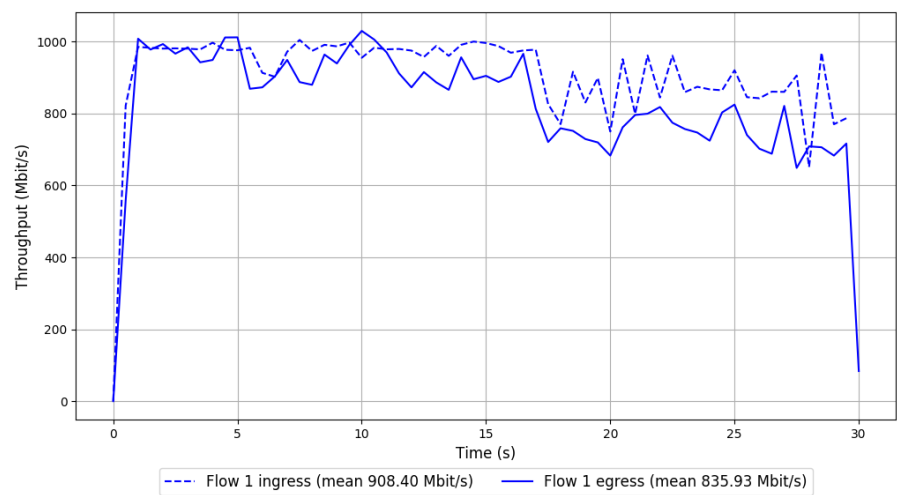
-- Flow 1:

Average throughput: 835.93 Mbit/s

95th percentile per-packet one-way delay: 199.303 ms

Loss rate: 7.97%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-19 20:31:38

End at: 2018-02-19 20:32:08

Below is generated by plot.py at 2018-02-20 00:05:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 875.69 Mbit/s

95th percentile per-packet one-way delay: 193.468 ms

Loss rate: 4.02%

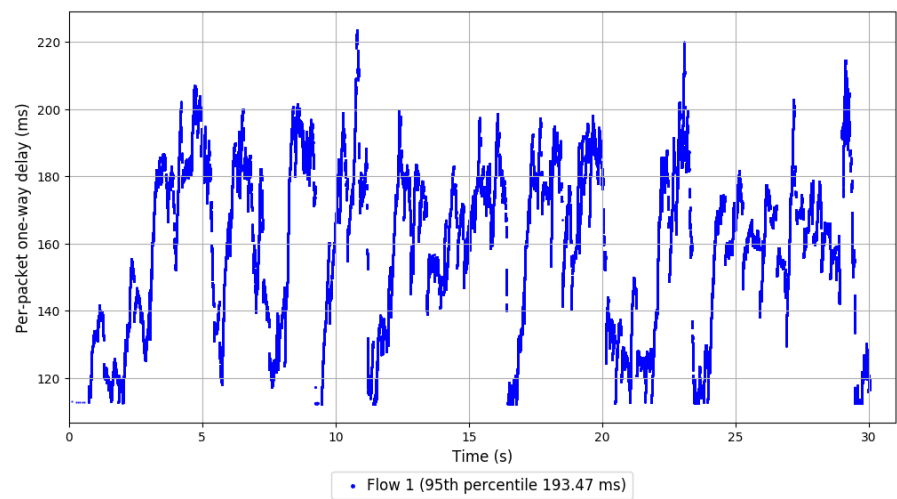
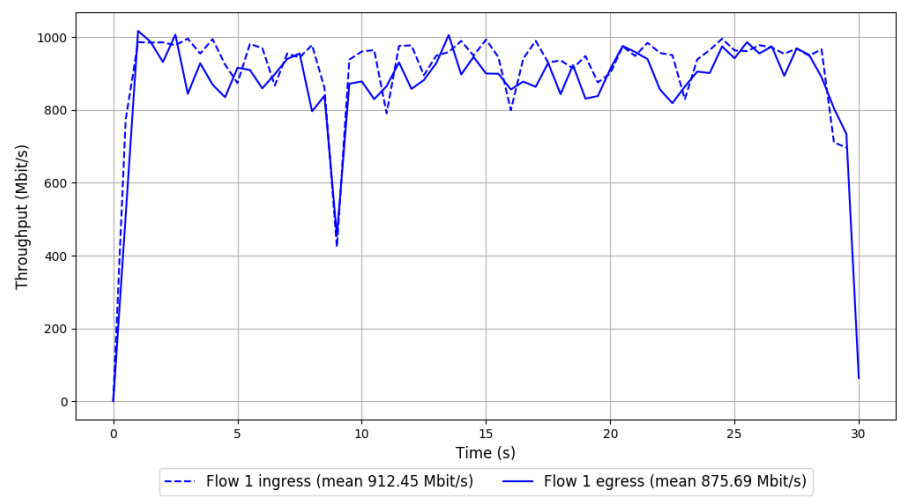
-- Flow 1:

Average throughput: 875.69 Mbit/s

95th percentile per-packet one-way delay: 193.468 ms

Loss rate: 4.02%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-19 20:47:12

End at: 2018-02-19 20:47:42

Below is generated by plot.py at 2018-02-20 00:06:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 922.66 Mbit/s

95th percentile per-packet one-way delay: 185.827 ms

Loss rate: 2.06%

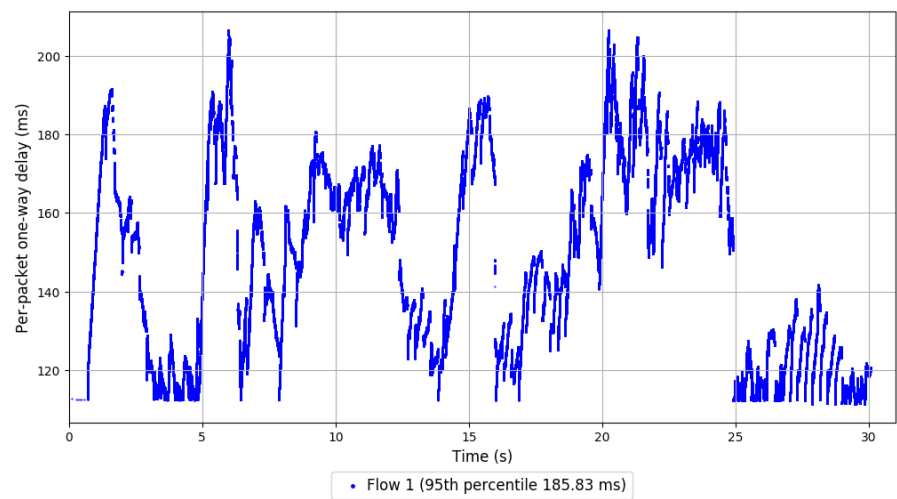
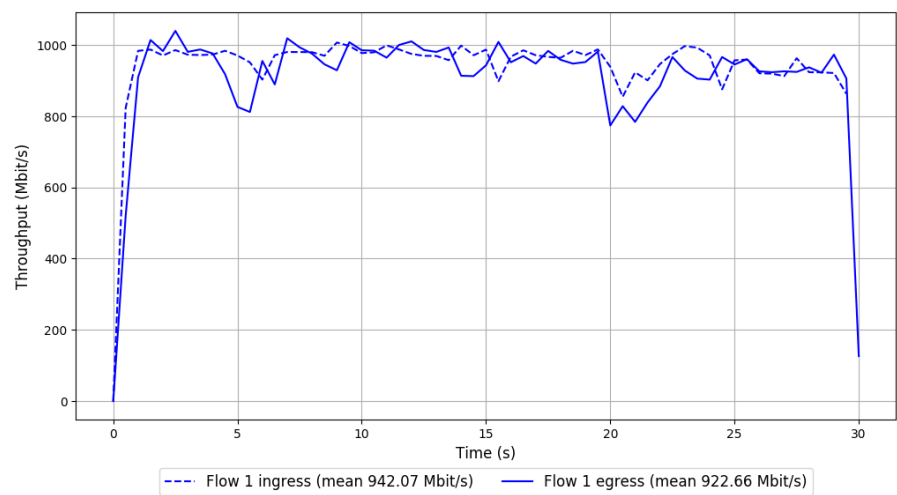
-- Flow 1:

Average throughput: 922.66 Mbit/s

95th percentile per-packet one-way delay: 185.827 ms

Loss rate: 2.06%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-19 21:02:18

End at: 2018-02-19 21:02:48

Below is generated by plot.py at 2018-02-20 00:06:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 857.22 Mbit/s

95th percentile per-packet one-way delay: 197.186 ms

Loss rate: 6.48%

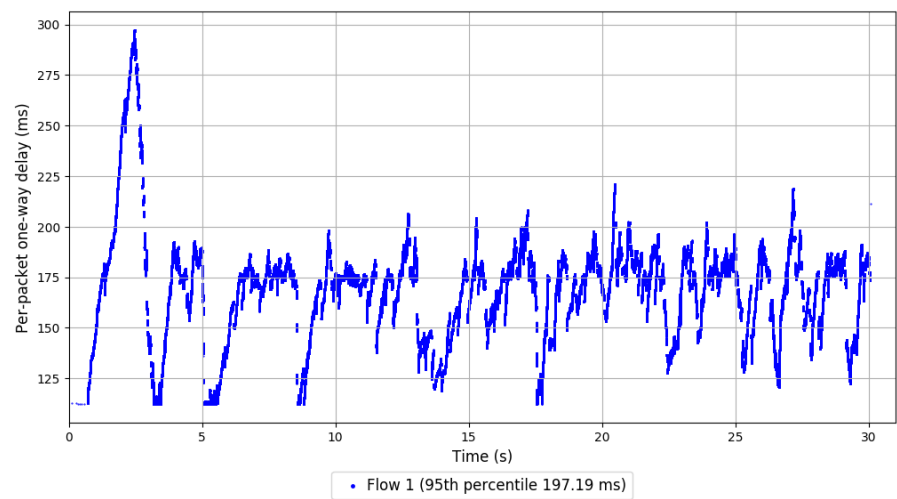
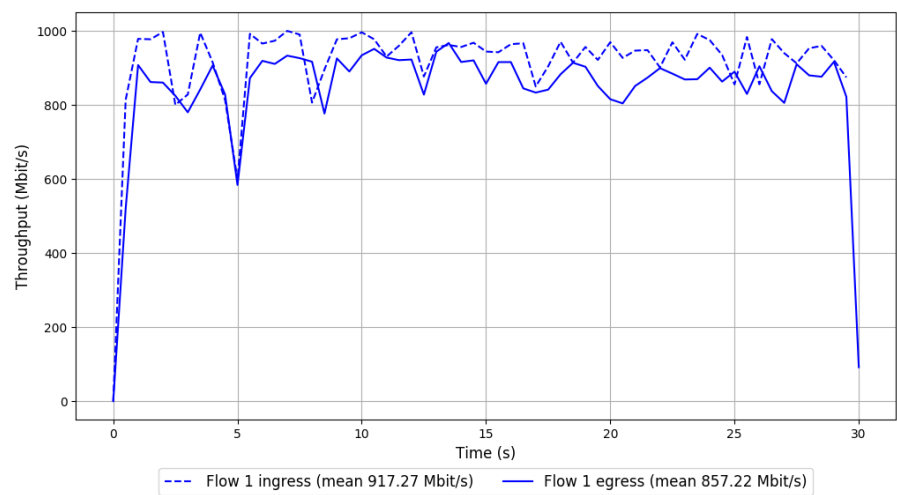
-- Flow 1:

Average throughput: 857.22 Mbit/s

95th percentile per-packet one-way delay: 197.186 ms

Loss rate: 6.48%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-19 21:17:45

End at: 2018-02-19 21:18:15

Below is generated by plot.py at 2018-02-20 00:06:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 832.11 Mbit/s

95th percentile per-packet one-way delay: 190.022 ms

Loss rate: 7.59%

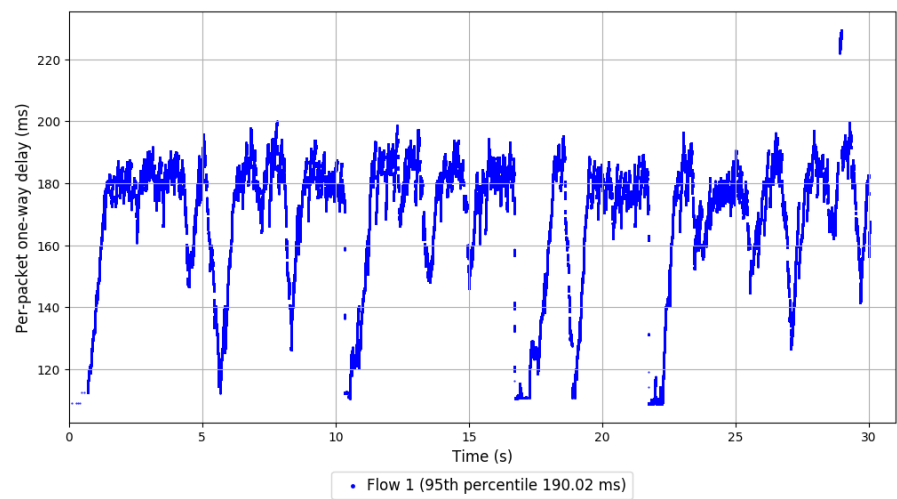
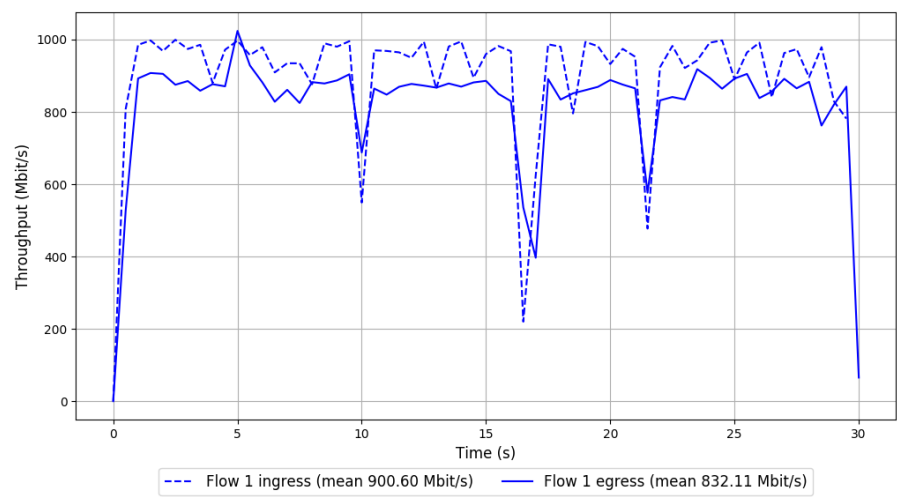
-- Flow 1:

Average throughput: 832.11 Mbit/s

95th percentile per-packet one-way delay: 190.022 ms

Loss rate: 7.59%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-19 21:33:18

End at: 2018-02-19 21:33:48

Below is generated by plot.py at 2018-02-20 00:20:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 845.51 Mbit/s

95th percentile per-packet one-way delay: 203.772 ms

Loss rate: 7.35%

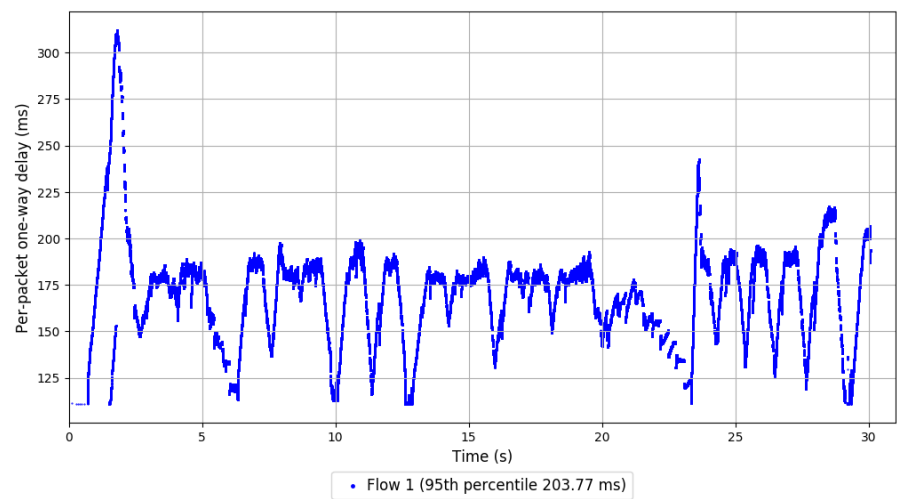
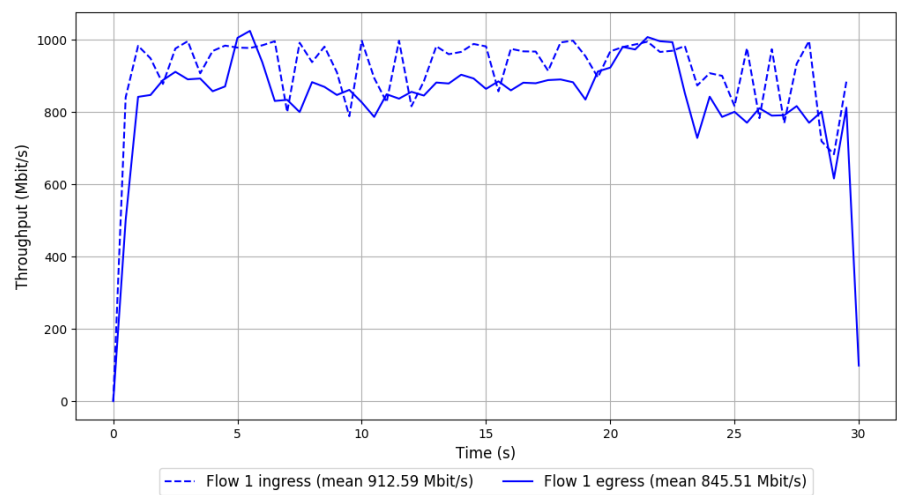
-- Flow 1:

Average throughput: 845.51 Mbit/s

95th percentile per-packet one-way delay: 203.772 ms

Loss rate: 7.35%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-19 21:48:52

End at: 2018-02-19 21:49:22

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 919.41 Mbit/s

95th percentile per-packet one-way delay: 179.305 ms

Loss rate: 1.30%

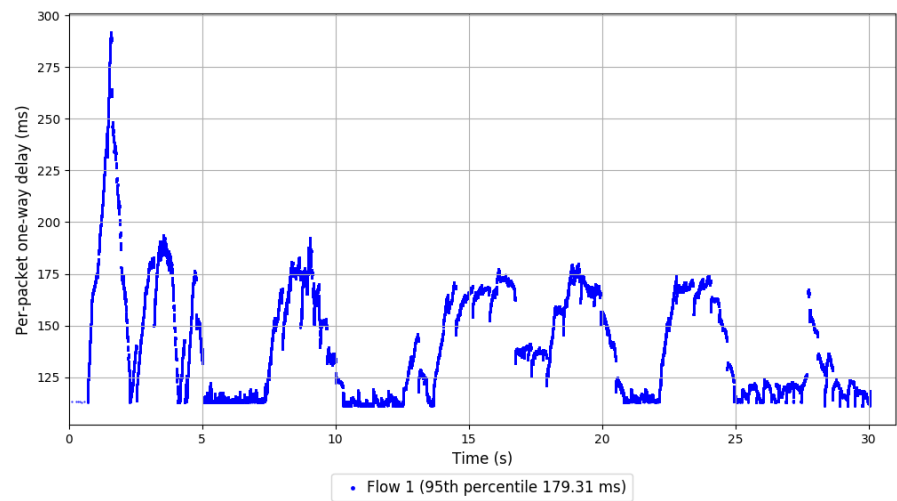
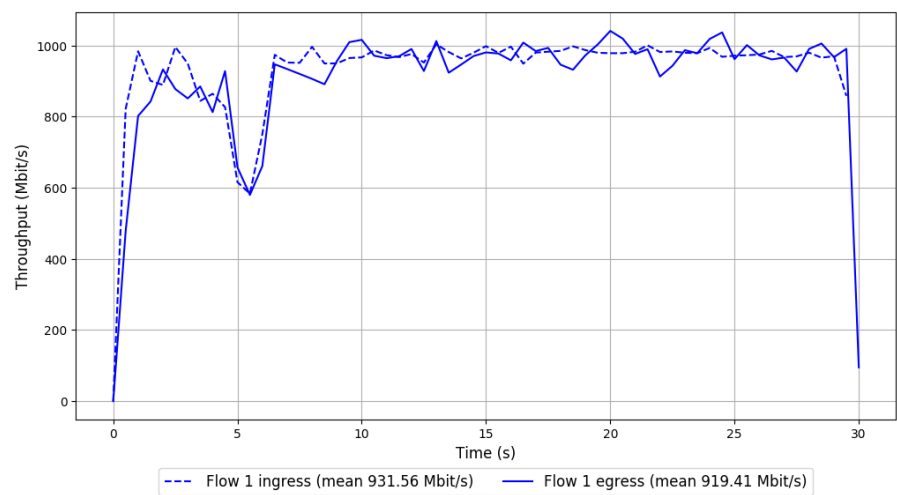
-- Flow 1:

Average throughput: 919.41 Mbit/s

95th percentile per-packet one-way delay: 179.305 ms

Loss rate: 1.30%

Run 10: Report of FillP — Data Link

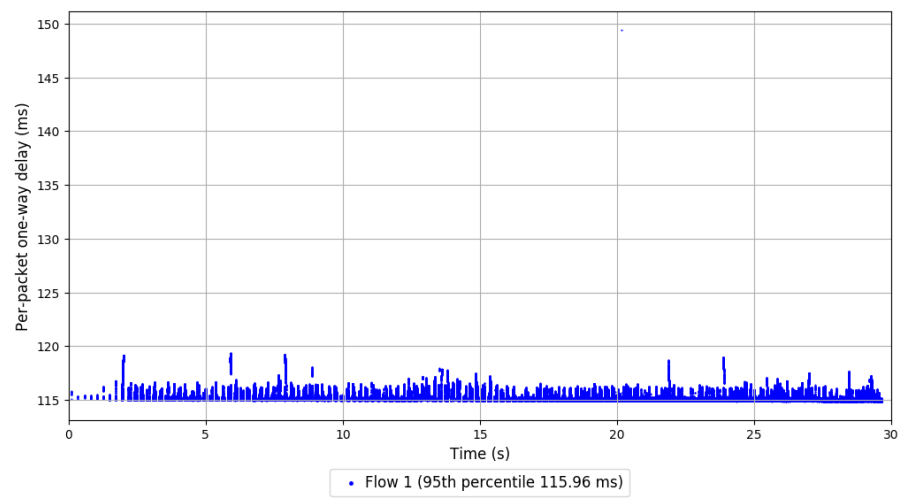
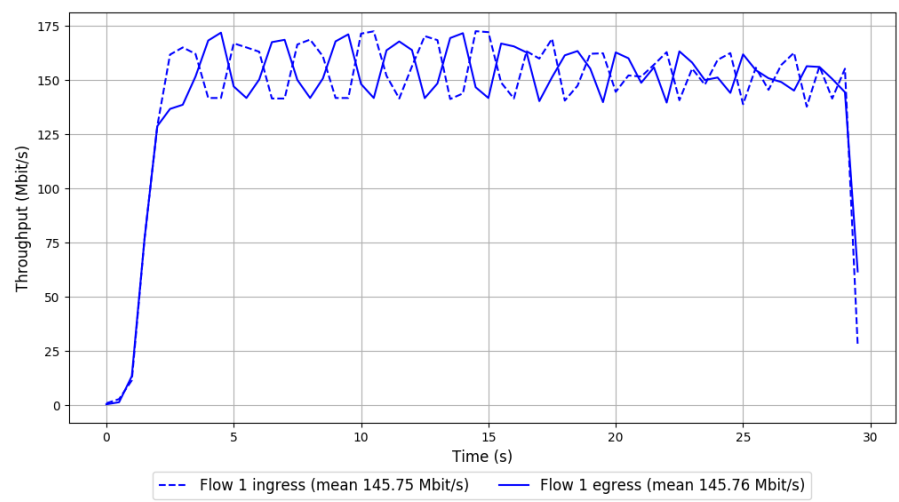


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-19 19:35:47
End at: 2018-02-19 19:36:17

# Below is generated by plot.py at 2018-02-20 00:21:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.76 Mbit/s
95th percentile per-packet one-way delay: 115.959 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 145.76 Mbit/s
95th percentile per-packet one-way delay: 115.959 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-19 19:51:31

End at: 2018-02-19 19:52:01

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 113.300 ms

Loss rate: 0.00%

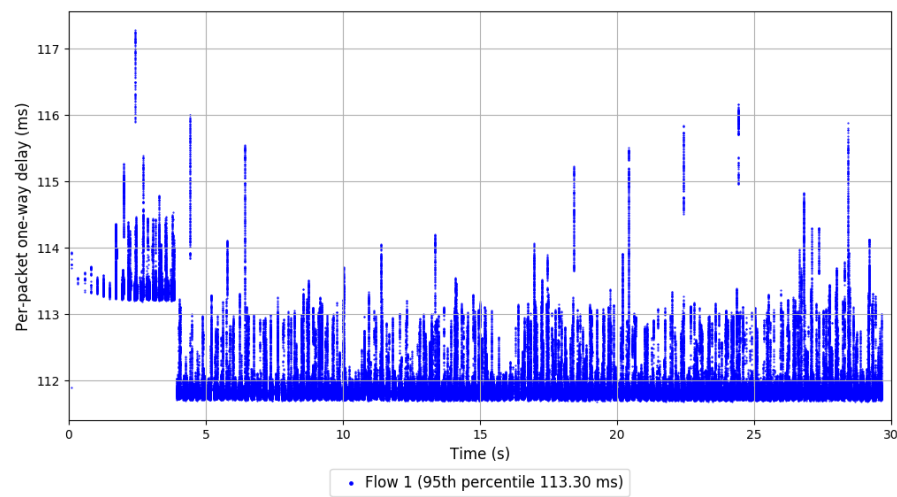
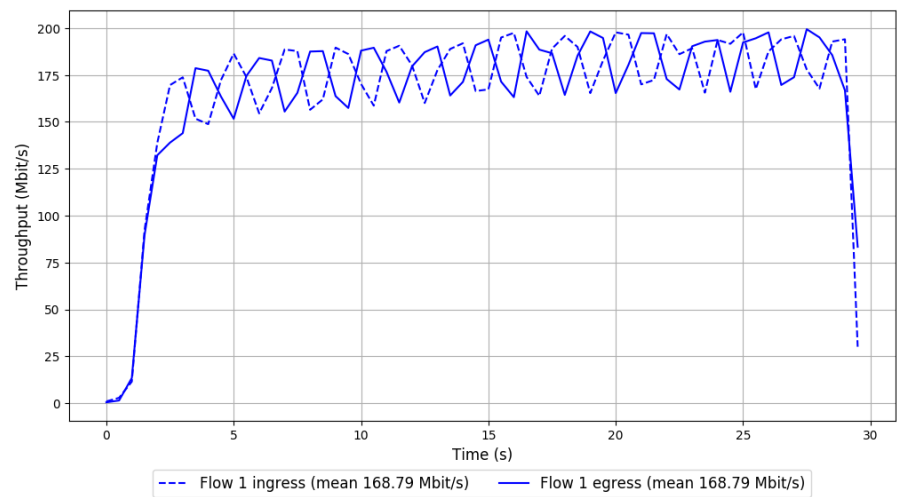
-- Flow 1:

Average throughput: 168.79 Mbit/s

95th percentile per-packet one-way delay: 113.300 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-19 20:07:15

End at: 2018-02-19 20:07:45

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.85 Mbit/s

95th percentile per-packet one-way delay: 115.249 ms

Loss rate: 0.00%

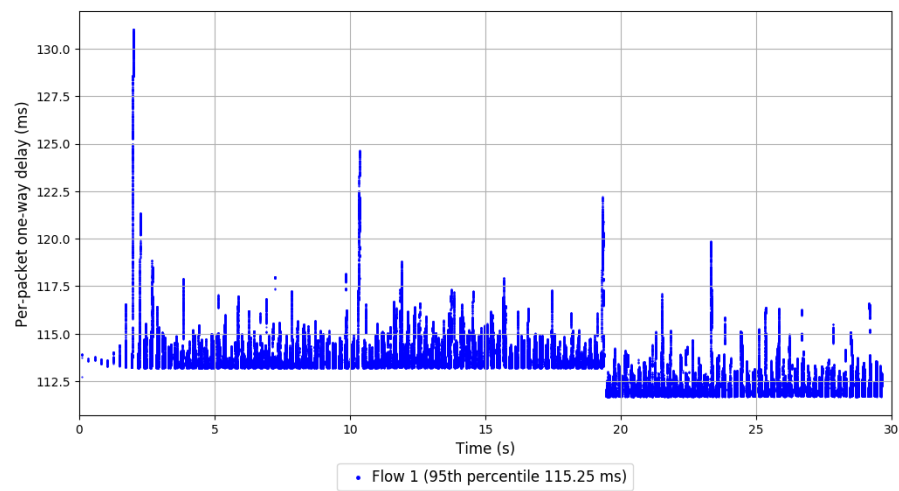
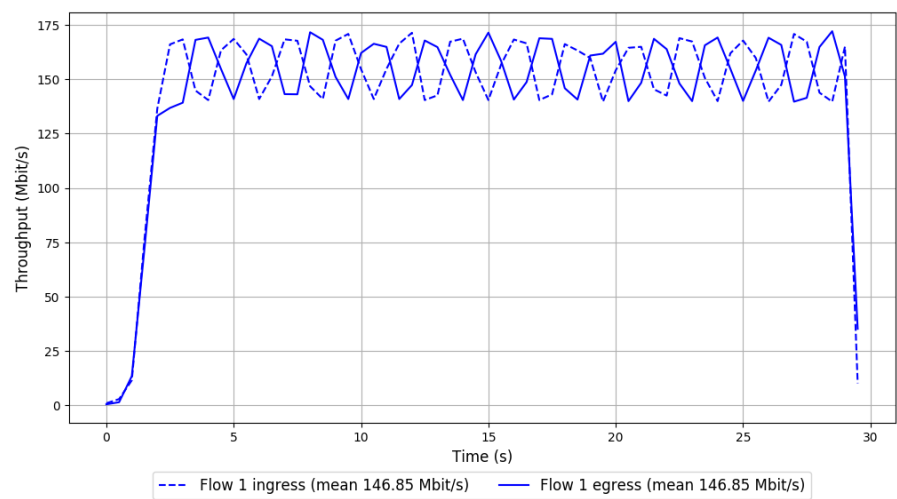
-- Flow 1:

Average throughput: 146.85 Mbit/s

95th percentile per-packet one-way delay: 115.249 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-19 20:22:14

End at: 2018-02-19 20:22:44

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.97 Mbit/s

95th percentile per-packet one-way delay: 113.387 ms

Loss rate: 0.00%

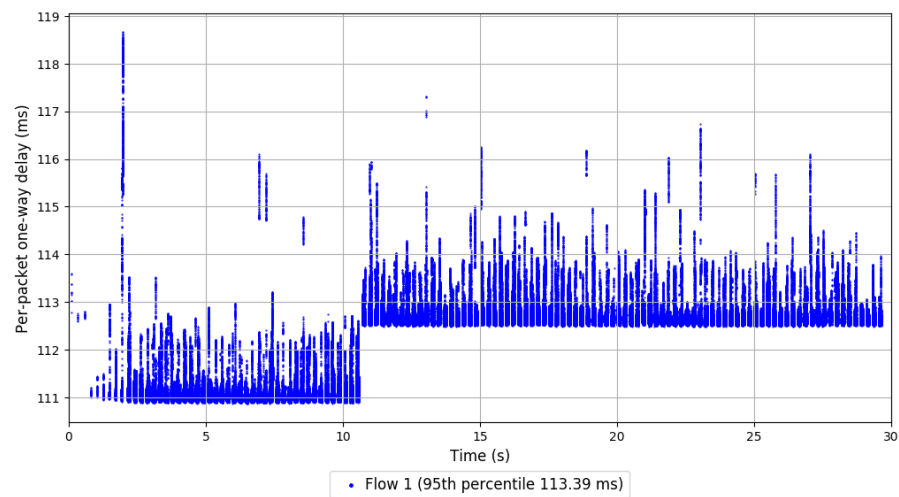
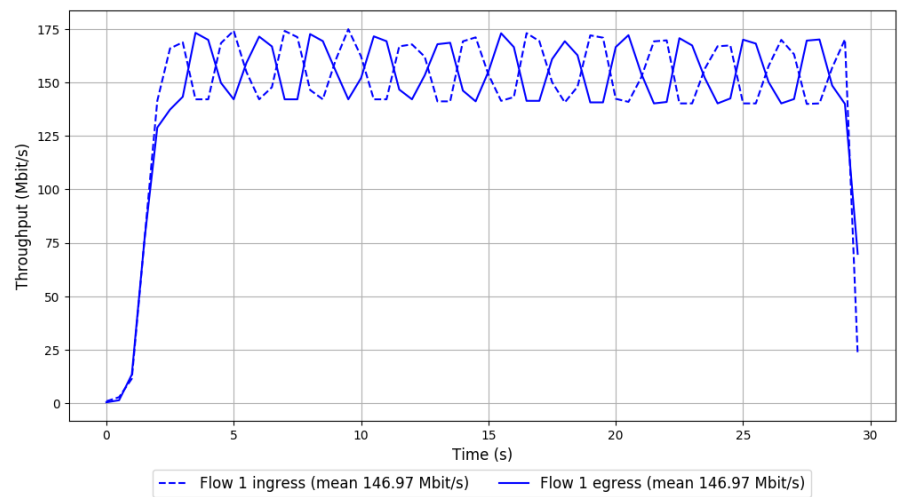
-- Flow 1:

Average throughput: 146.97 Mbit/s

95th percentile per-packet one-way delay: 113.387 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-19 20:37:59

End at: 2018-02-19 20:38:29

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.60 Mbit/s

95th percentile per-packet one-way delay: 113.371 ms

Loss rate: 0.00%

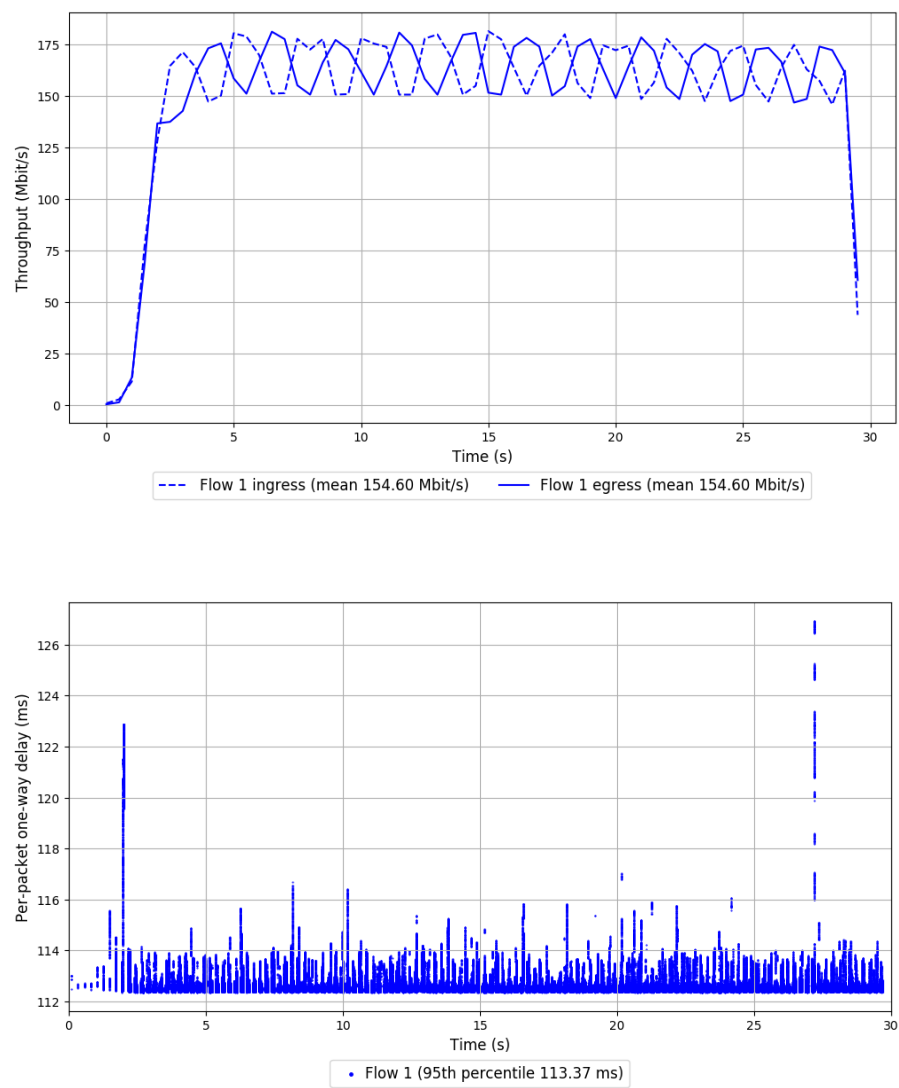
-- Flow 1:

Average throughput: 154.60 Mbit/s

95th percentile per-packet one-way delay: 113.371 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-19 20:53:20

End at: 2018-02-19 20:53:50

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.81 Mbit/s

95th percentile per-packet one-way delay: 113.621 ms

Loss rate: 0.01%

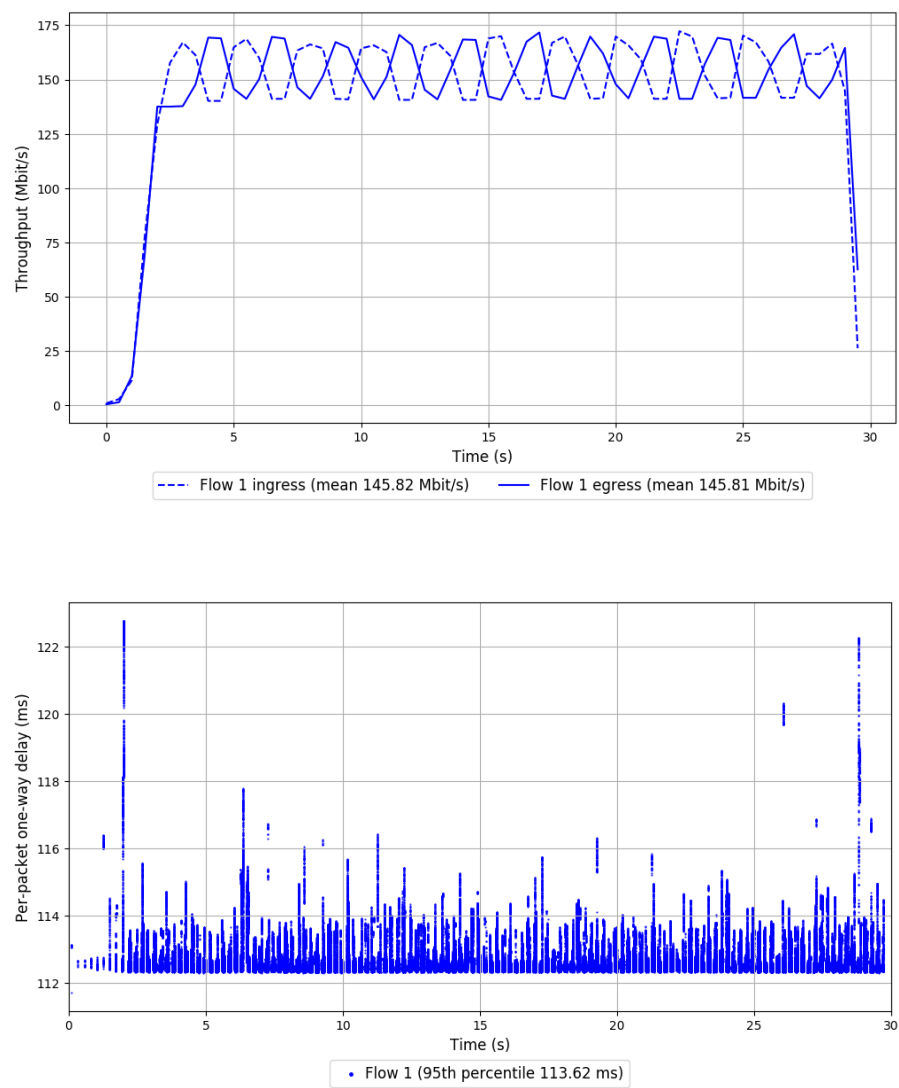
-- Flow 1:

Average throughput: 145.81 Mbit/s

95th percentile per-packet one-way delay: 113.621 ms

Loss rate: 0.01%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-19 21:08:37

End at: 2018-02-19 21:09:07

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.69 Mbit/s

95th percentile per-packet one-way delay: 113.635 ms

Loss rate: 0.00%

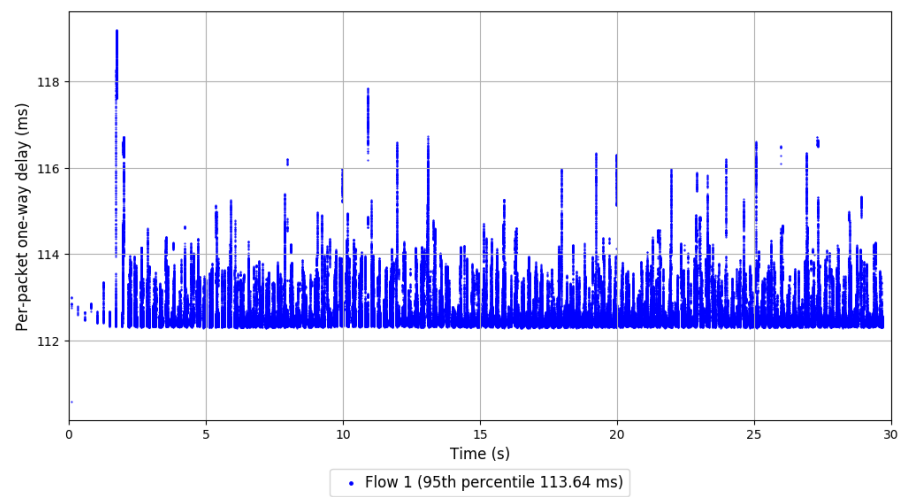
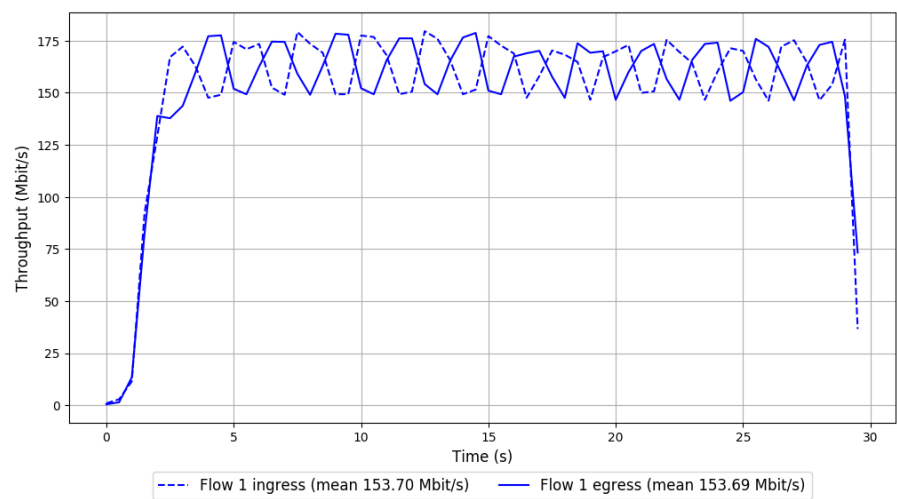
-- Flow 1:

Average throughput: 153.69 Mbit/s

95th percentile per-packet one-way delay: 113.635 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-19 21:23:54

End at: 2018-02-19 21:24:24

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.11 Mbit/s

95th percentile per-packet one-way delay: 113.875 ms

Loss rate: 0.00%

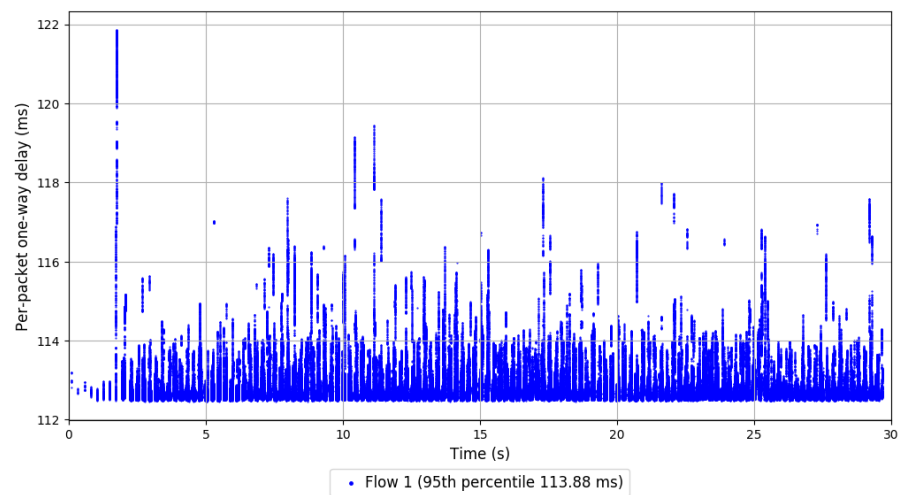
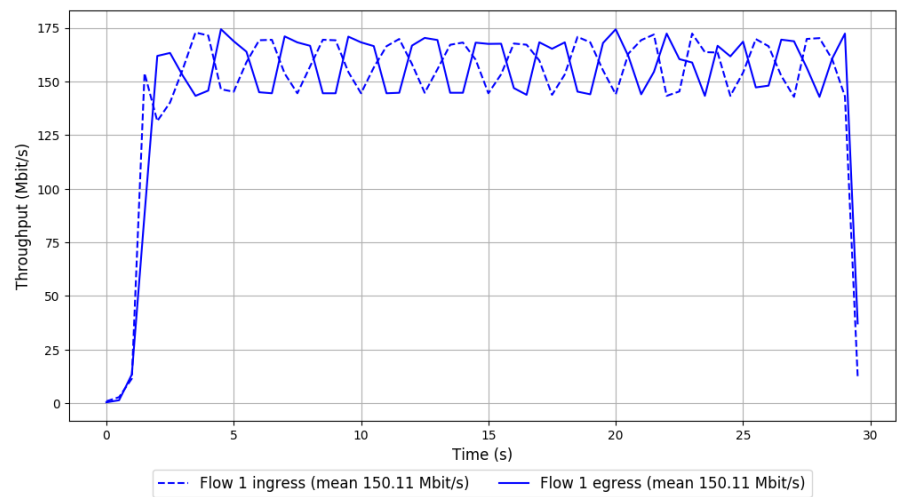
-- Flow 1:

Average throughput: 150.11 Mbit/s

95th percentile per-packet one-way delay: 113.875 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-19 21:39:27

End at: 2018-02-19 21:39:57

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.09 Mbit/s

95th percentile per-packet one-way delay: 113.749 ms

Loss rate: 0.00%

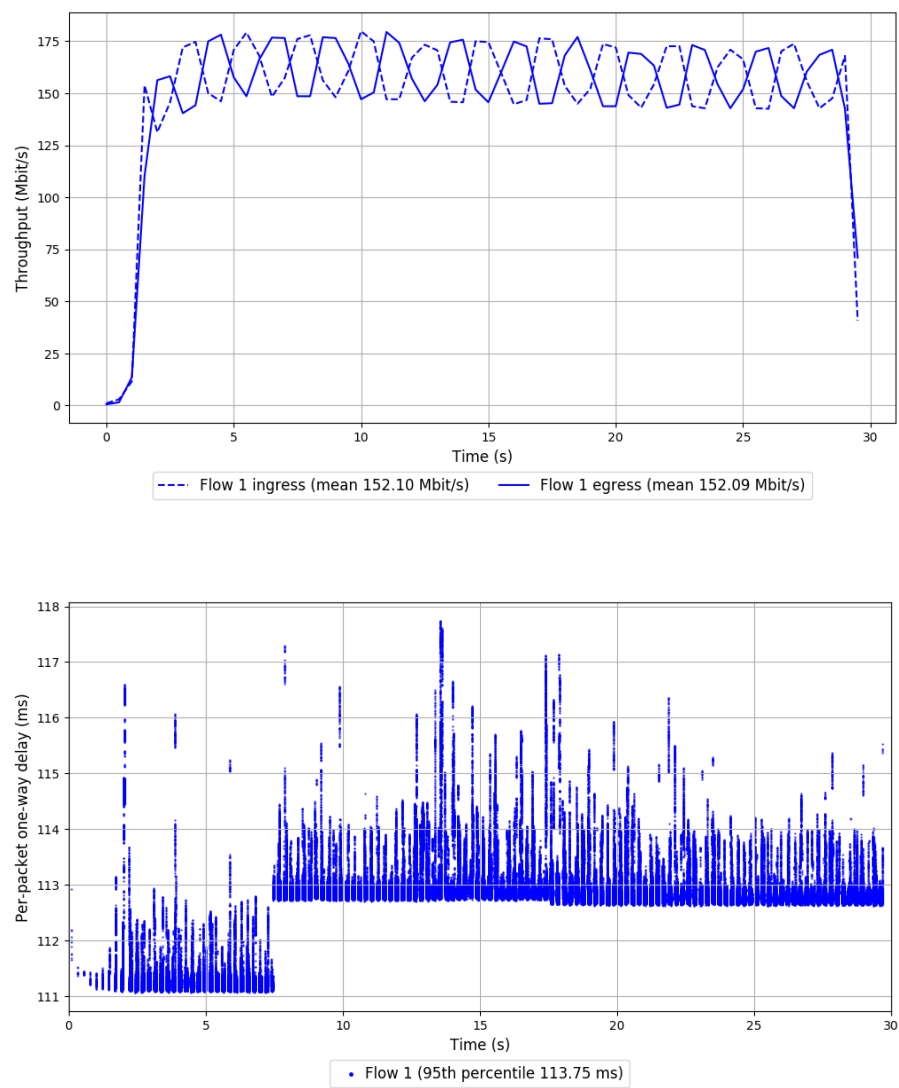
-- Flow 1:

Average throughput: 152.09 Mbit/s

95th percentile per-packet one-way delay: 113.749 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-19 21:55:10

End at: 2018-02-19 21:55:40

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.75 Mbit/s

95th percentile per-packet one-way delay: 113.792 ms

Loss rate: 0.00%

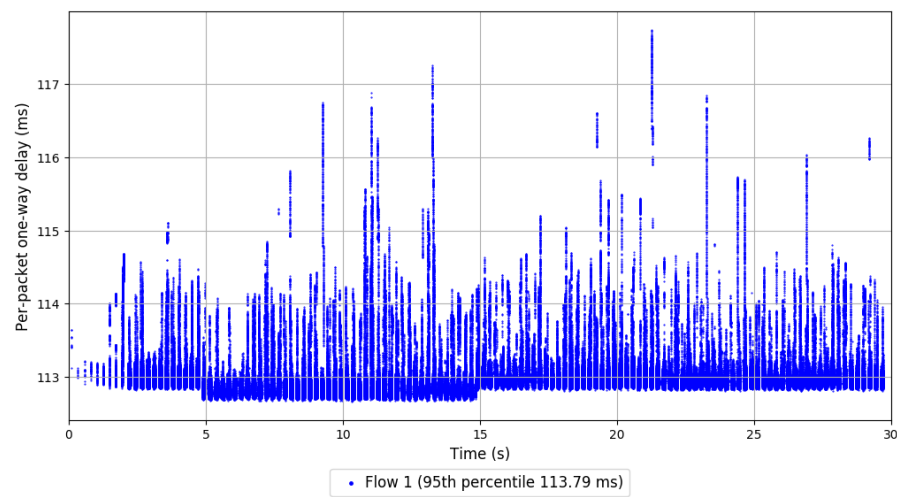
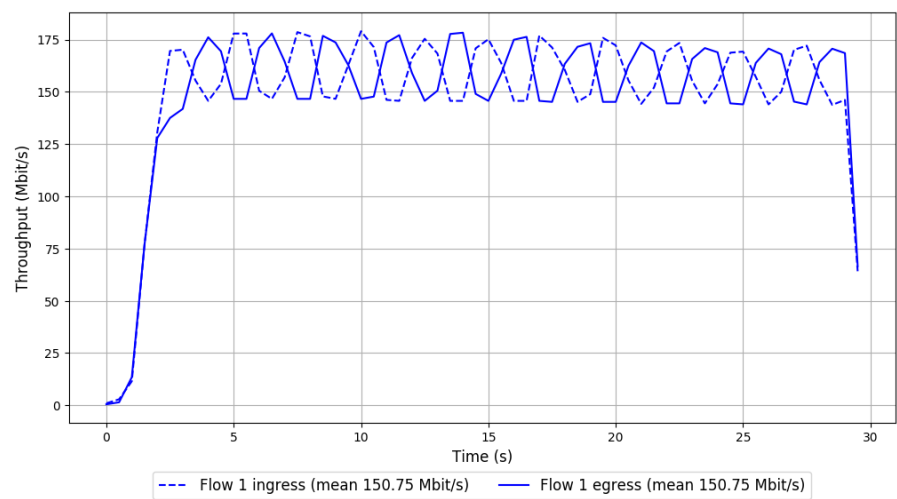
-- Flow 1:

Average throughput: 150.75 Mbit/s

95th percentile per-packet one-way delay: 113.792 ms

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-19 19:27:37

End at: 2018-02-19 19:28:07

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.49 Mbit/s

95th percentile per-packet one-way delay: 148.117 ms

Loss rate: 0.00%

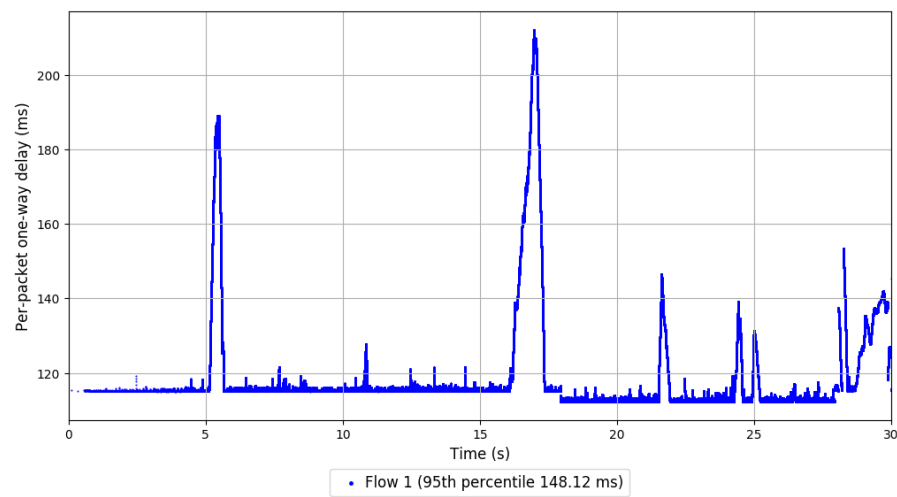
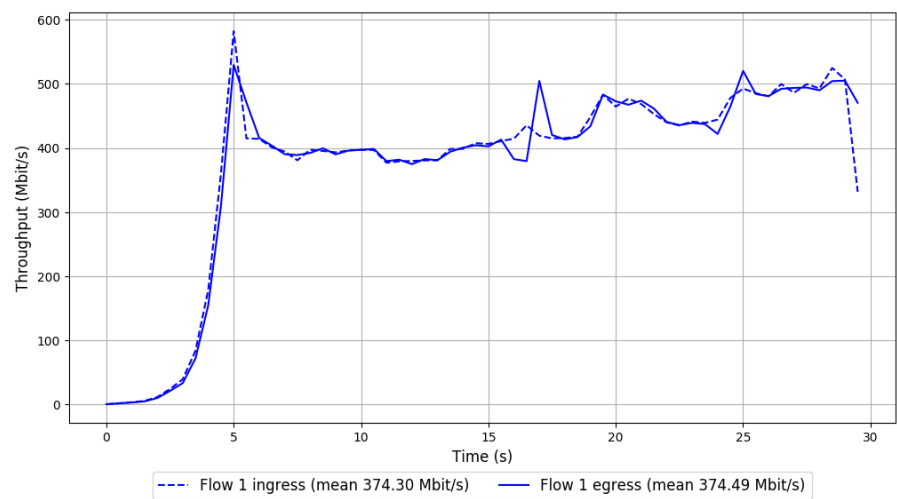
-- Flow 1:

Average throughput: 374.49 Mbit/s

95th percentile per-packet one-way delay: 148.117 ms

Loss rate: 0.00%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-19 19:42:57

End at: 2018-02-19 19:43:27

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.92 Mbit/s

95th percentile per-packet one-way delay: 179.929 ms

Loss rate: 0.05%

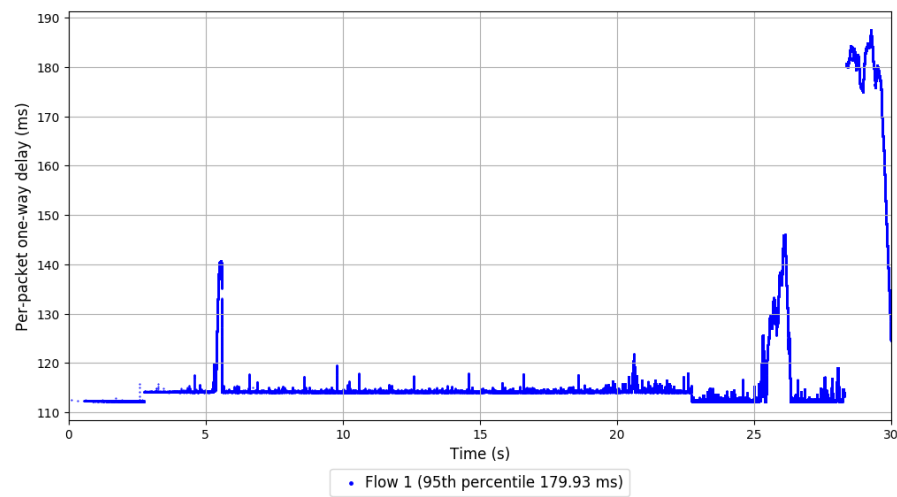
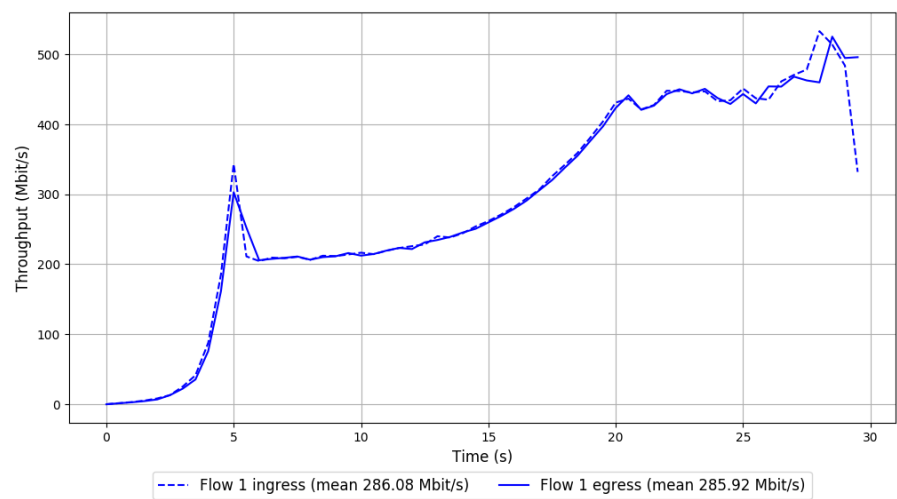
-- Flow 1:

Average throughput: 285.92 Mbit/s

95th percentile per-packet one-way delay: 179.929 ms

Loss rate: 0.05%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-19 19:58:49

End at: 2018-02-19 19:59:20

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.19 Mbit/s

95th percentile per-packet one-way delay: 115.297 ms

Loss rate: 0.00%

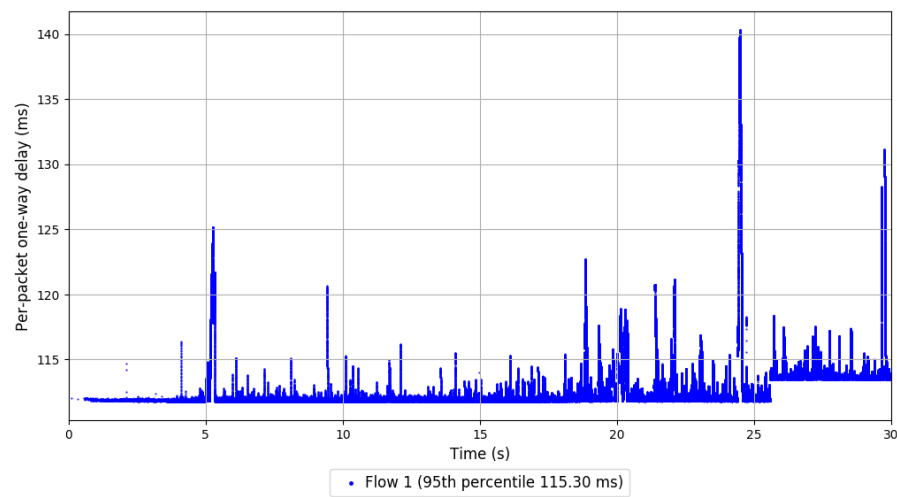
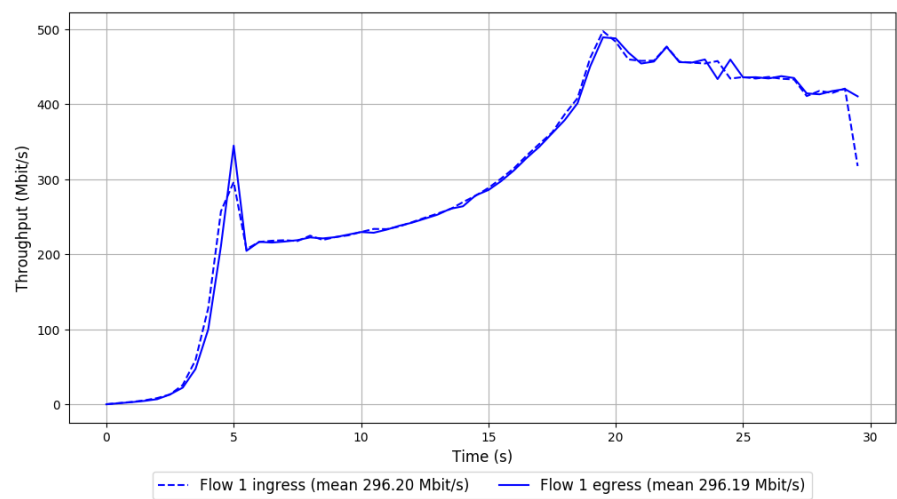
-- Flow 1:

Average throughput: 296.19 Mbit/s

95th percentile per-packet one-way delay: 115.297 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-19 20:14:14

End at: 2018-02-19 20:14:44

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.90 Mbit/s

95th percentile per-packet one-way delay: 115.785 ms

Loss rate: 0.01%

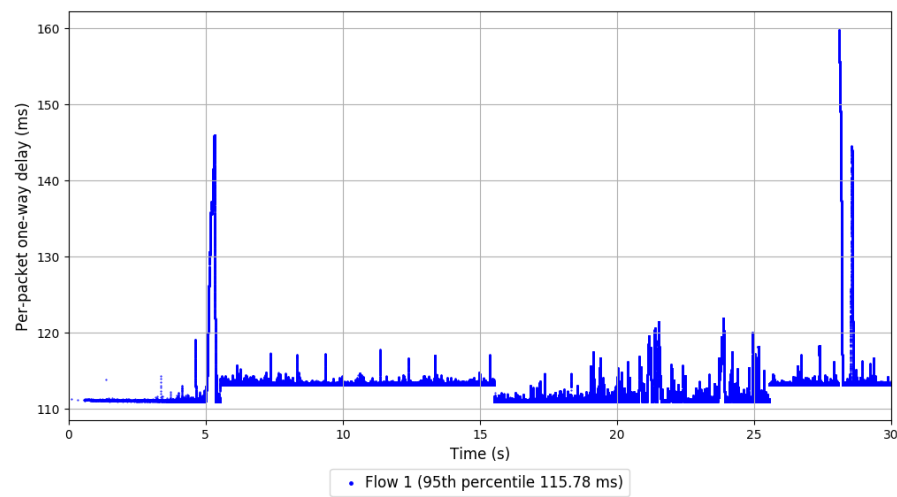
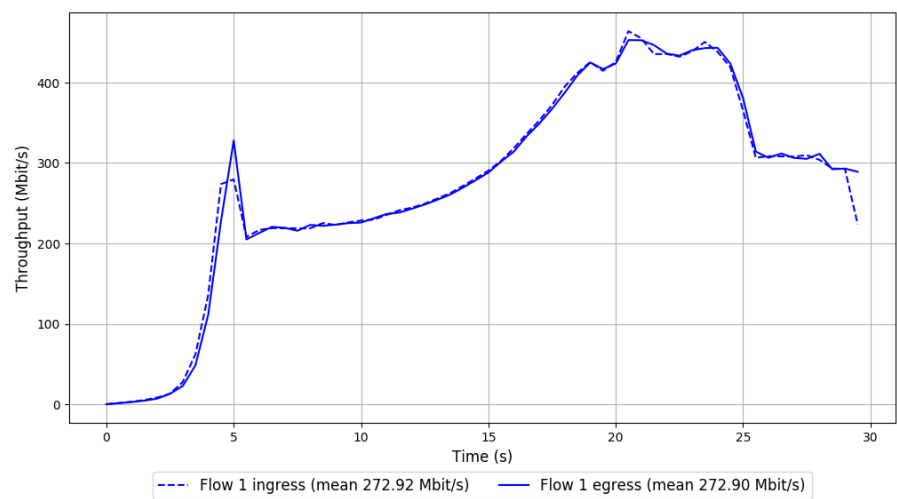
-- Flow 1:

Average throughput: 272.90 Mbit/s

95th percentile per-packet one-way delay: 115.785 ms

Loss rate: 0.01%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-19 20:29:25

End at: 2018-02-19 20:29:55

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.54 Mbit/s

95th percentile per-packet one-way delay: 134.025 ms

Loss rate: 0.20%

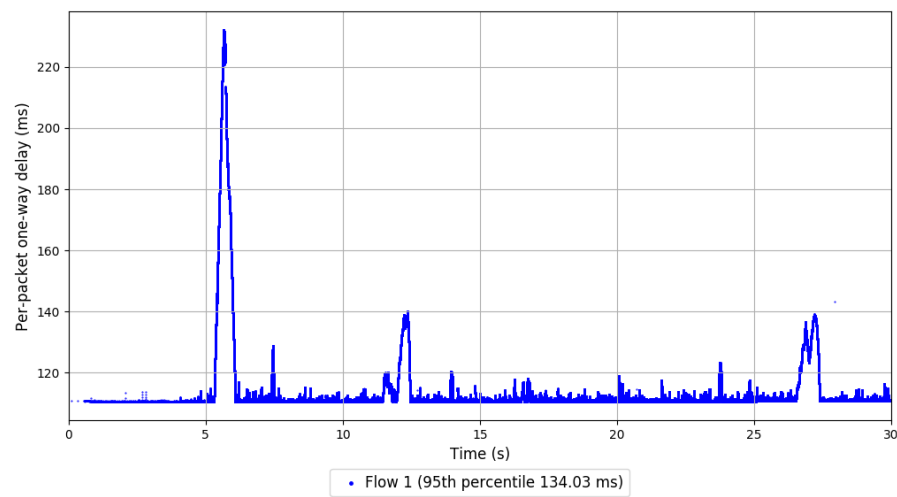
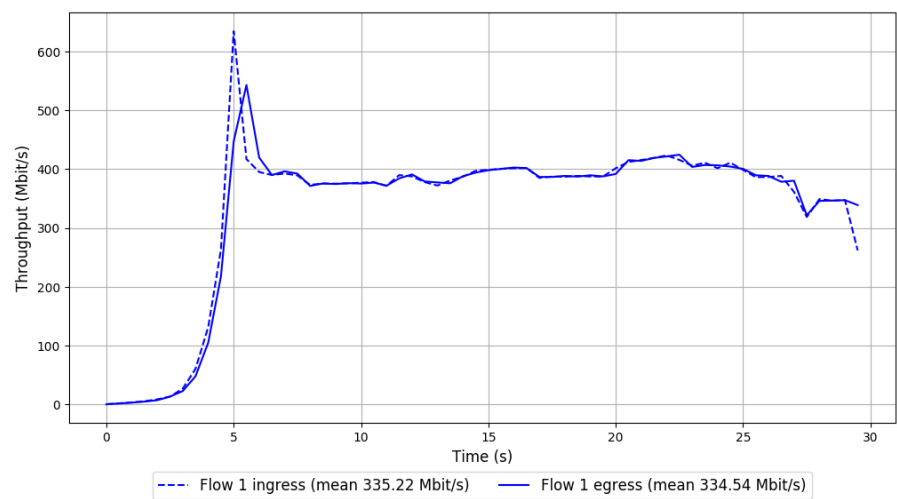
-- Flow 1:

Average throughput: 334.54 Mbit/s

95th percentile per-packet one-way delay: 134.025 ms

Loss rate: 0.20%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-19 20:45:07

End at: 2018-02-19 20:45:37

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.00 Mbit/s

95th percentile per-packet one-way delay: 116.273 ms

Loss rate: 0.00%

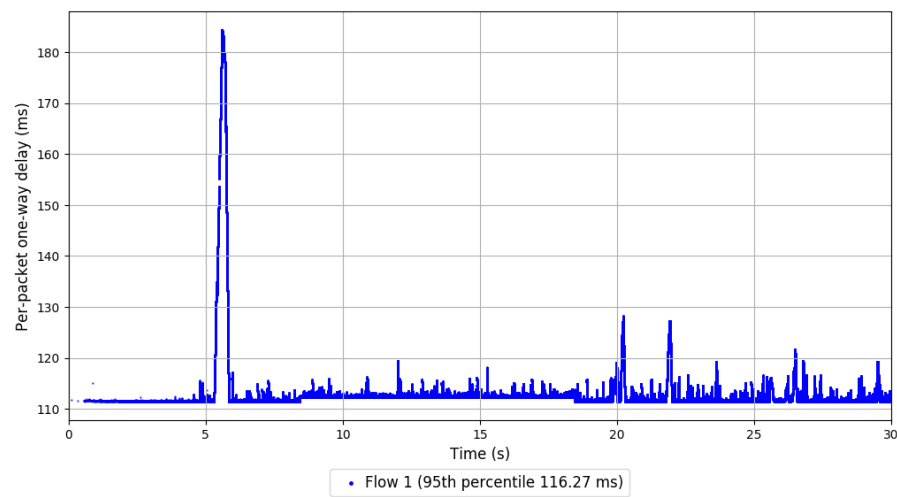
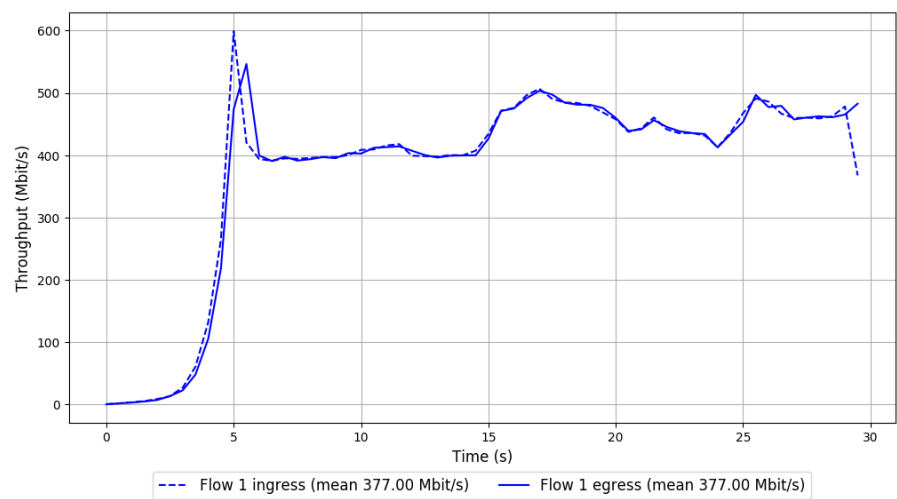
-- Flow 1:

Average throughput: 377.00 Mbit/s

95th percentile per-packet one-way delay: 116.273 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-19 21:00:22

End at: 2018-02-19 21:00:52

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.48 Mbit/s

95th percentile per-packet one-way delay: 114.199 ms

Loss rate: 0.00%

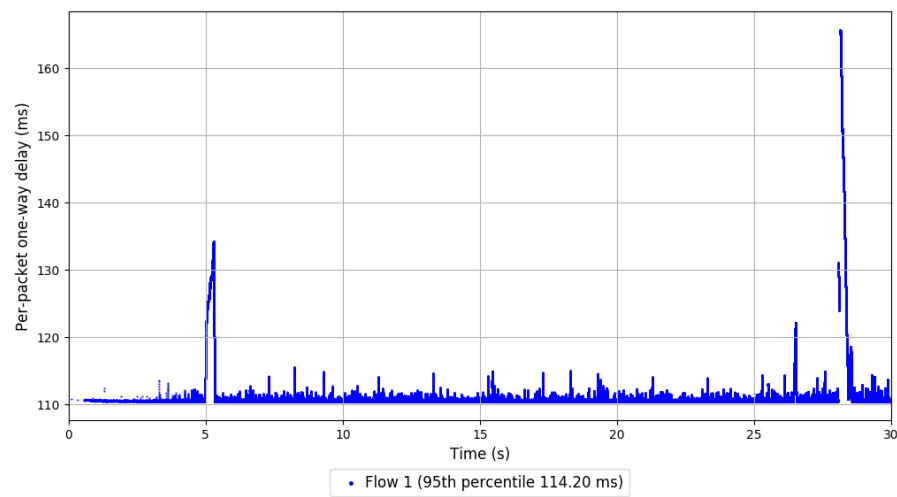
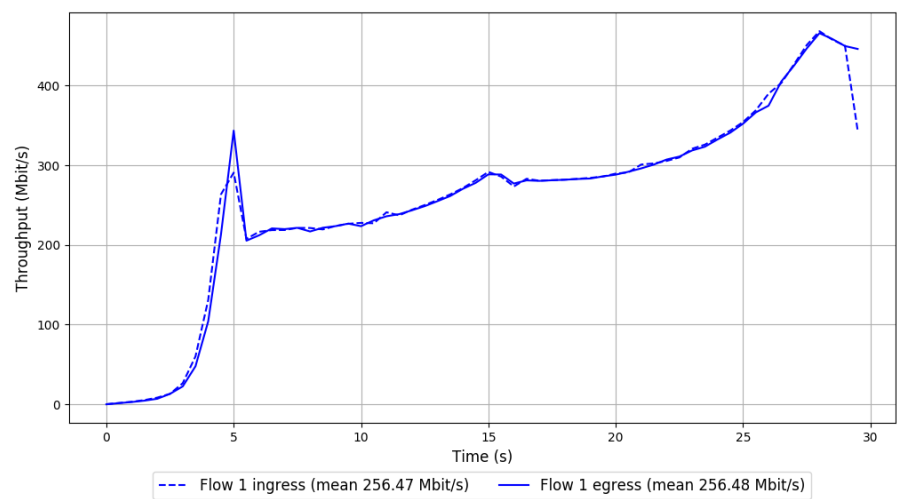
-- Flow 1:

Average throughput: 256.48 Mbit/s

95th percentile per-packet one-way delay: 114.199 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-19 21:15:43

End at: 2018-02-19 21:16:13

Below is generated by plot.py at 2018-02-20 00:21:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.55 Mbit/s

95th percentile per-packet one-way delay: 122.492 ms

Loss rate: 0.15%

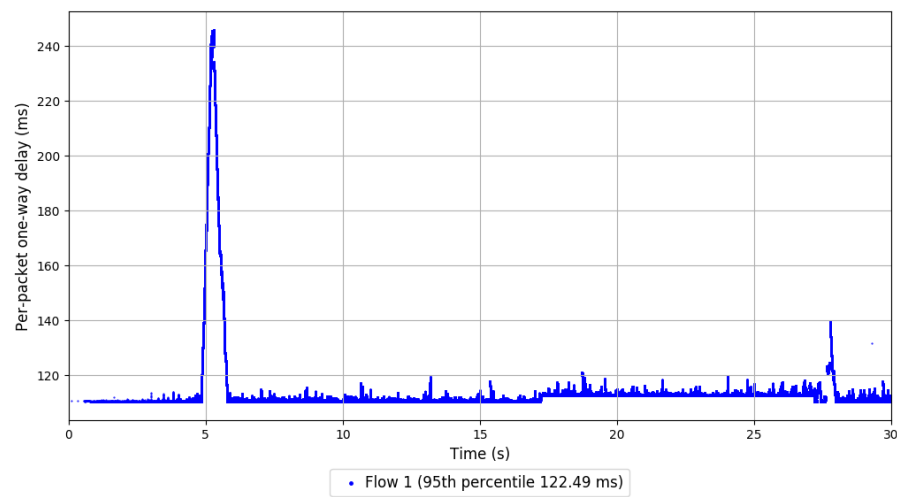
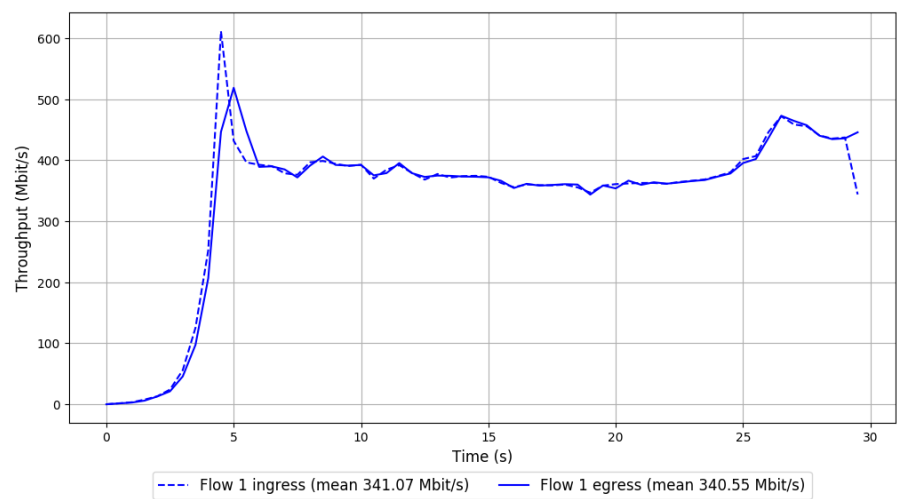
-- Flow 1:

Average throughput: 340.55 Mbit/s

95th percentile per-packet one-way delay: 122.492 ms

Loss rate: 0.15%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-19 21:31:05

End at: 2018-02-19 21:31:35

Below is generated by plot.py at 2018-02-20 00:22:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 403.24 Mbit/s

95th percentile per-packet one-way delay: 120.753 ms

Loss rate: 0.01%

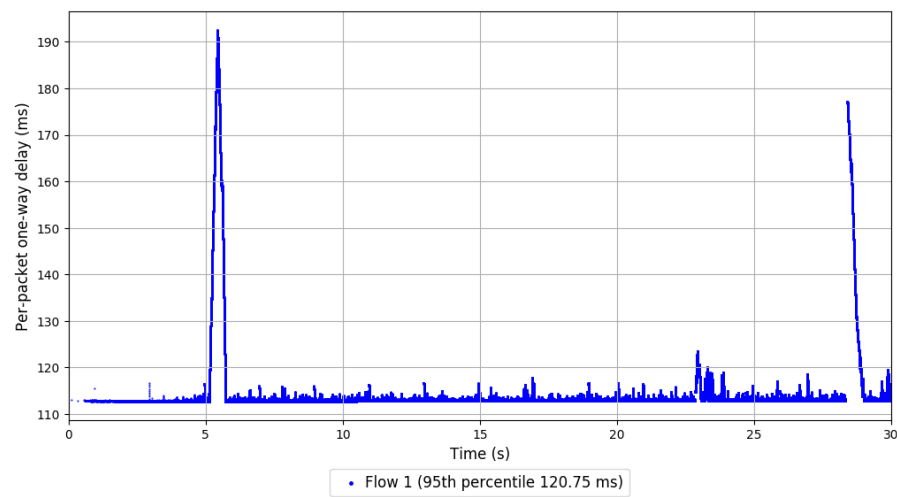
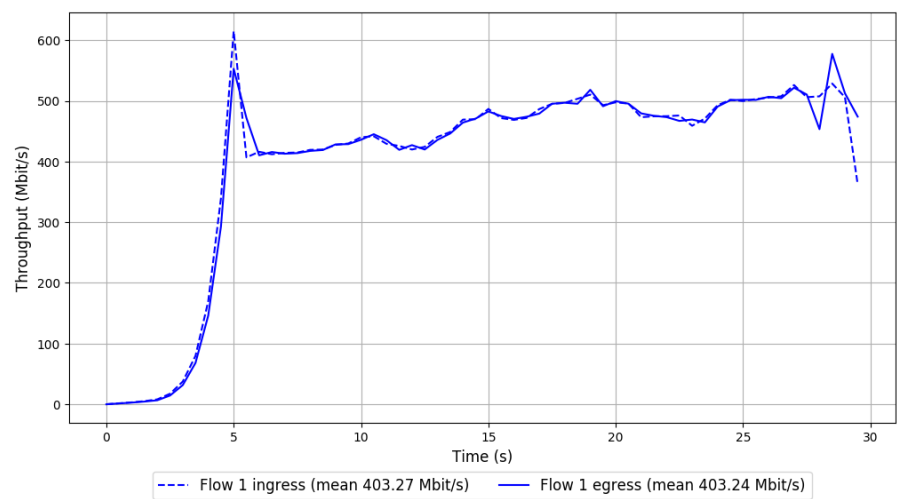
-- Flow 1:

Average throughput: 403.24 Mbit/s

95th percentile per-packet one-way delay: 120.753 ms

Loss rate: 0.01%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-19 21:46:43

End at: 2018-02-19 21:47:13

Below is generated by plot.py at 2018-02-20 00:22:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.89 Mbit/s

95th percentile per-packet one-way delay: 115.697 ms

Loss rate: 0.20%

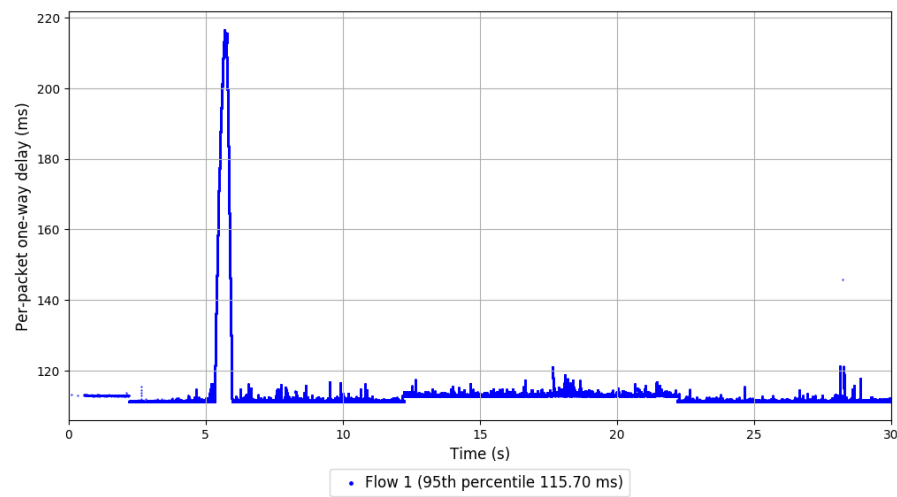
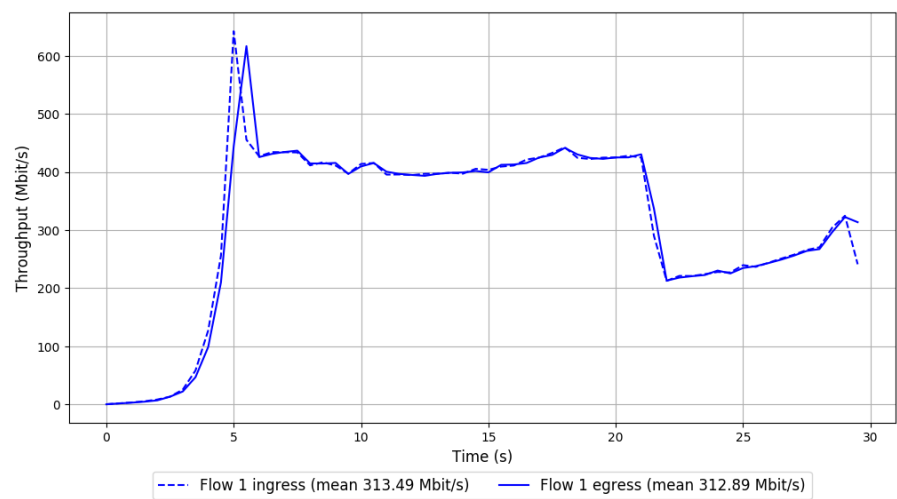
-- Flow 1:

Average throughput: 312.89 Mbit/s

95th percentile per-packet one-way delay: 115.697 ms

Loss rate: 0.20%

Run 10: Report of Vivace-latency — Data Link

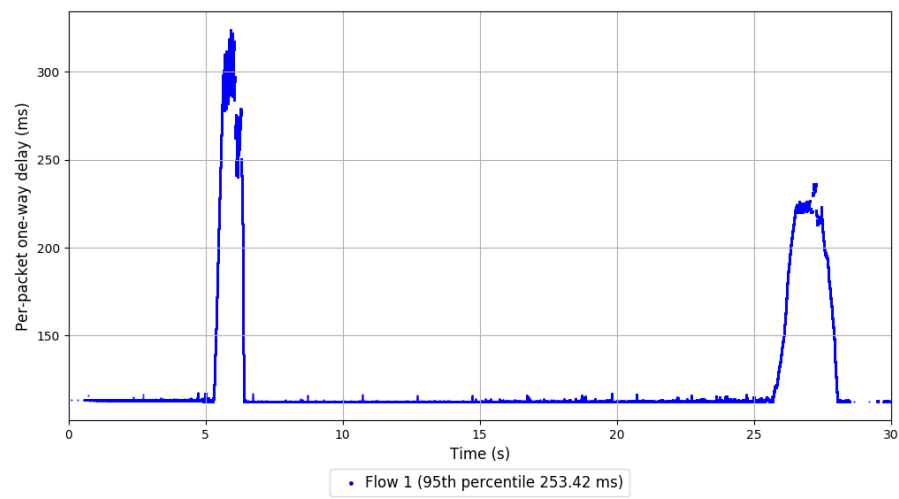
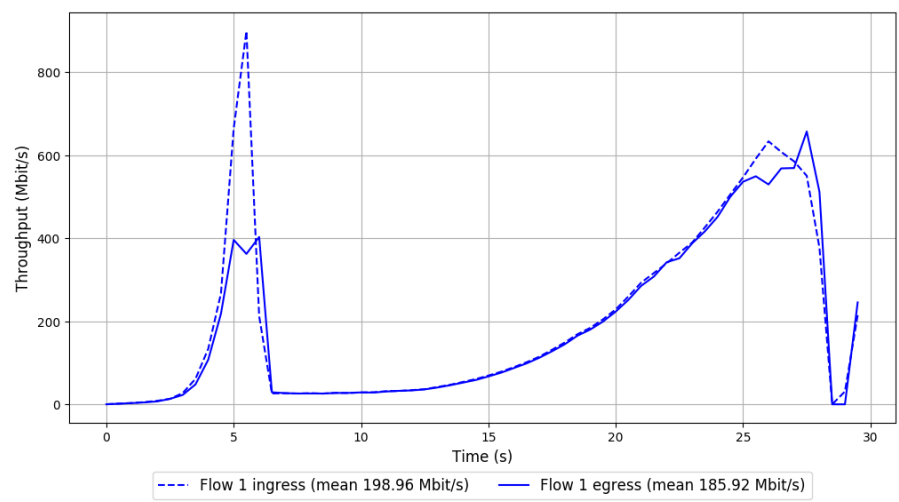


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-19 19:28:45
End at: 2018-02-19 19:29:15

# Below is generated by plot.py at 2018-02-20 00:22:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.92 Mbit/s
95th percentile per-packet one-way delay: 253.420 ms
Loss rate: 6.63%
-- Flow 1:
Average throughput: 185.92 Mbit/s
95th percentile per-packet one-way delay: 253.420 ms
Loss rate: 6.63%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-19 19:43:59

End at: 2018-02-19 19:44:29

Below is generated by plot.py at 2018-02-20 00:23:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.97 Mbit/s

95th percentile per-packet one-way delay: 225.957 ms

Loss rate: 1.10%

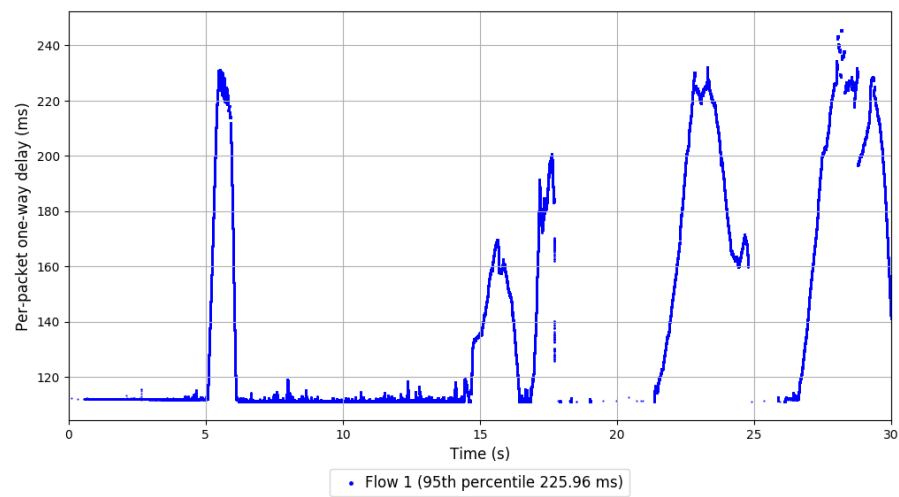
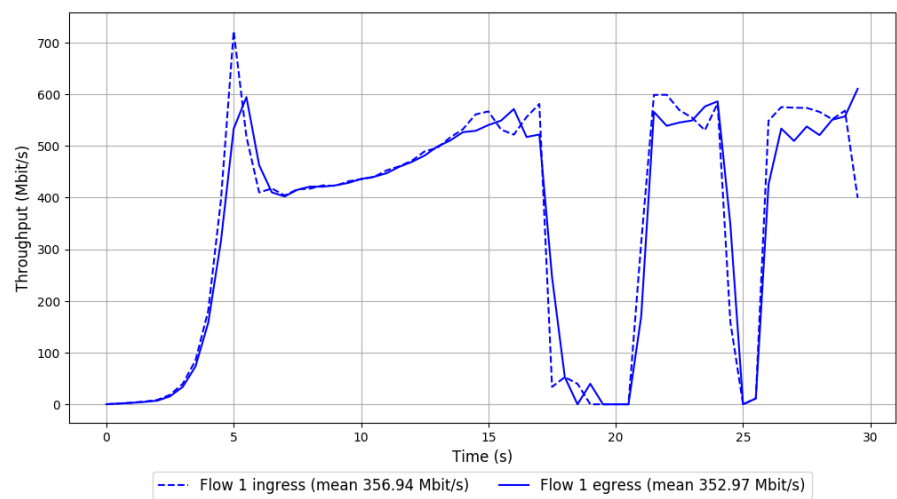
-- Flow 1:

Average throughput: 352.97 Mbit/s

95th percentile per-packet one-way delay: 225.957 ms

Loss rate: 1.10%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-19 19:59:52

End at: 2018-02-19 20:00:22

Below is generated by plot.py at 2018-02-20 00:25:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.20 Mbit/s

95th percentile per-packet one-way delay: 207.087 ms

Loss rate: 0.98%

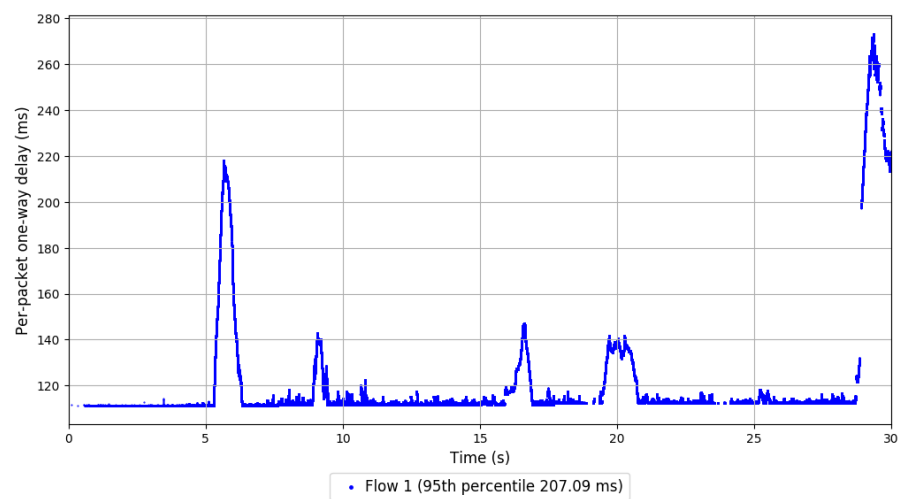
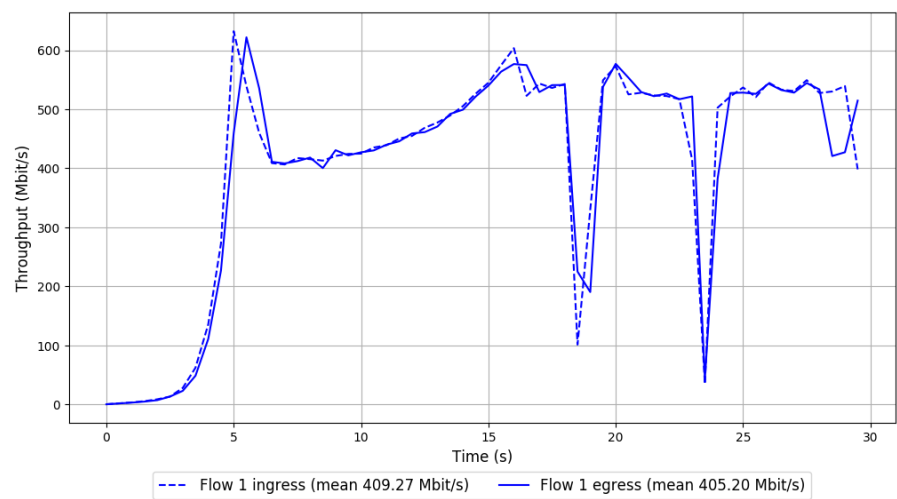
-- Flow 1:

Average throughput: 405.20 Mbit/s

95th percentile per-packet one-way delay: 207.087 ms

Loss rate: 0.98%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-19 20:15:15

End at: 2018-02-19 20:15:45

Below is generated by plot.py at 2018-02-20 00:25:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.93 Mbit/s

95th percentile per-packet one-way delay: 304.785 ms

Loss rate: 7.60%

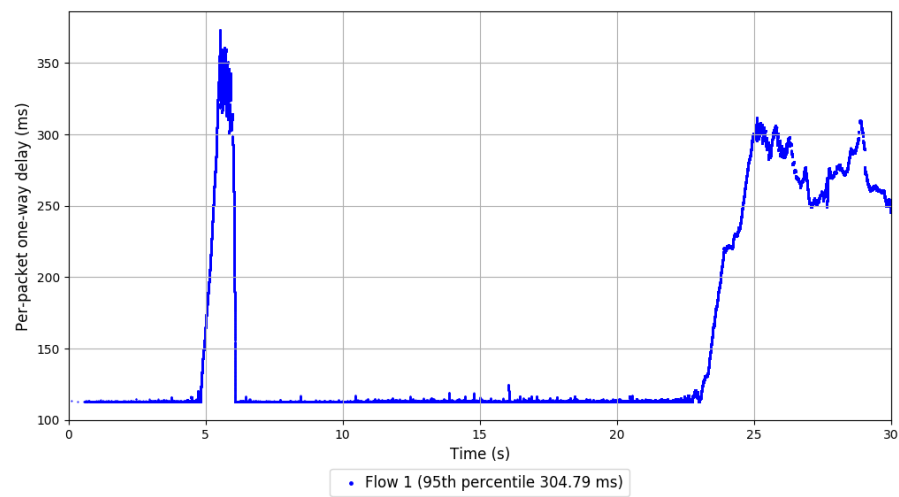
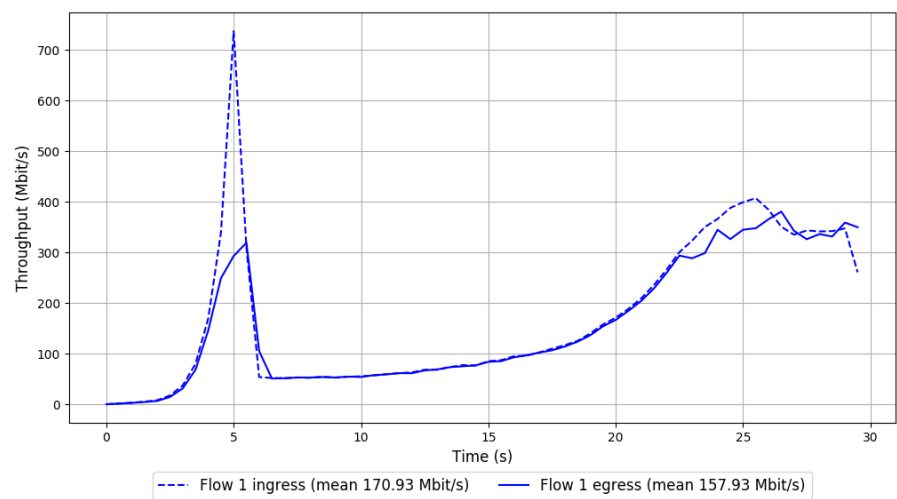
-- Flow 1:

Average throughput: 157.93 Mbit/s

95th percentile per-packet one-way delay: 304.785 ms

Loss rate: 7.60%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-19 20:30:30

End at: 2018-02-19 20:31:00

Below is generated by plot.py at 2018-02-20 00:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.22 Mbit/s

95th percentile per-packet one-way delay: 230.200 ms

Loss rate: 2.84%

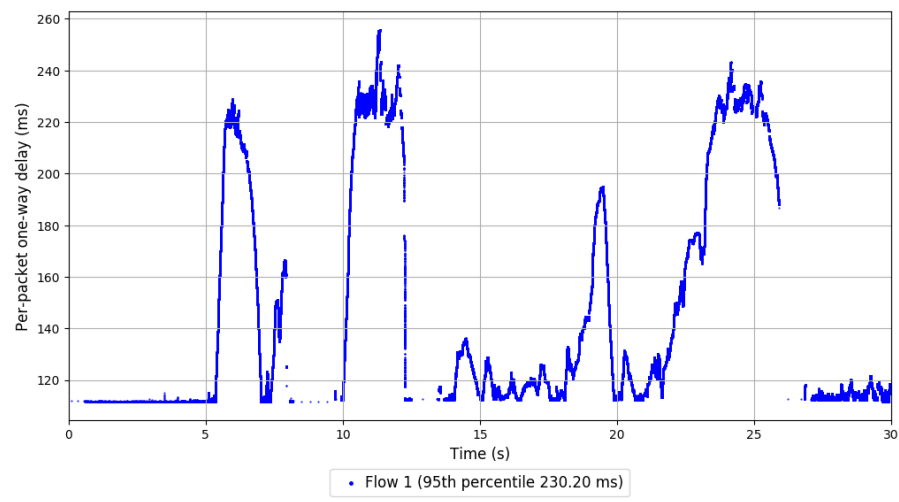
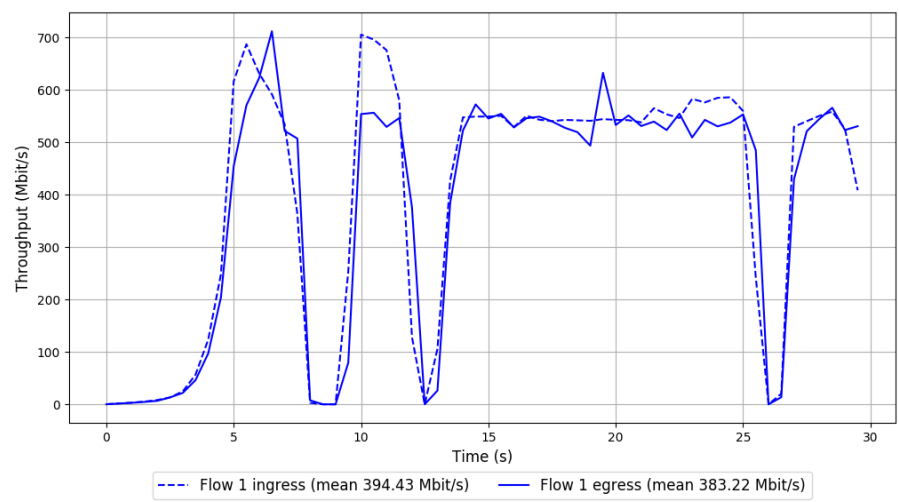
-- Flow 1:

Average throughput: 383.22 Mbit/s

95th percentile per-packet one-way delay: 230.200 ms

Loss rate: 2.84%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-19 20:46:15

End at: 2018-02-19 20:46:45

Below is generated by plot.py at 2018-02-20 00:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.90 Mbit/s

95th percentile per-packet one-way delay: 251.507 ms

Loss rate: 6.39%

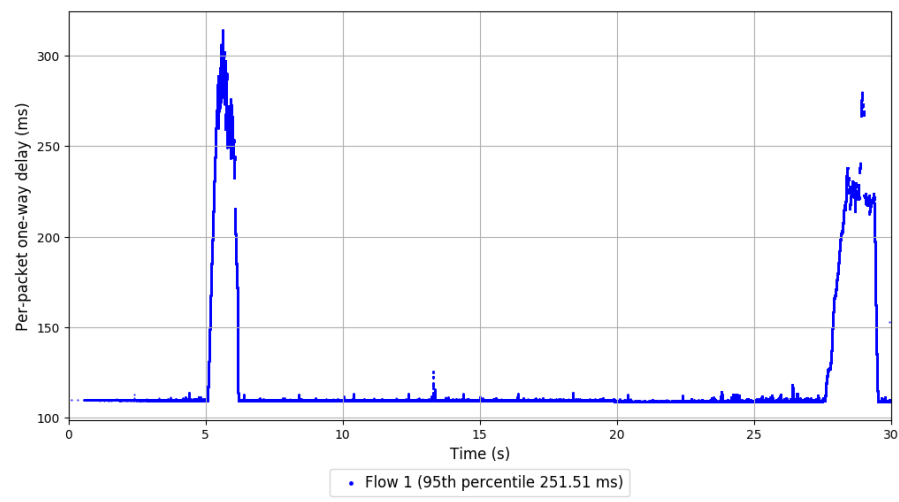
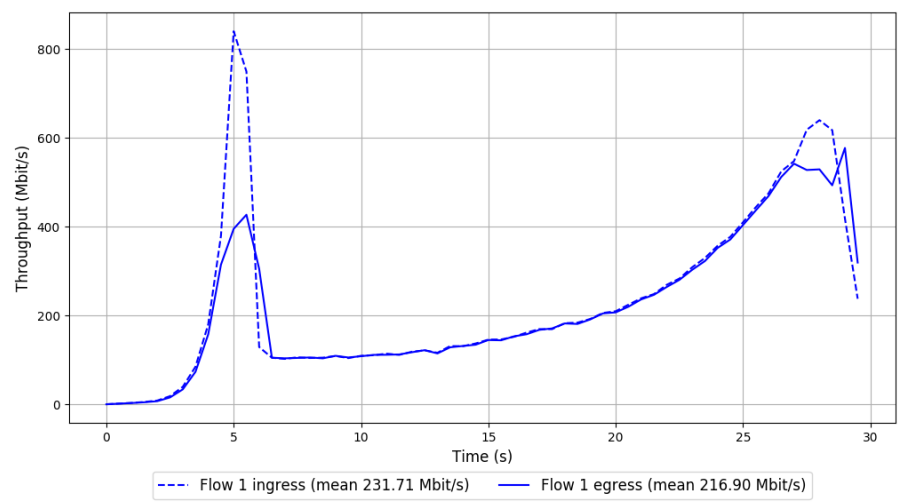
-- Flow 1:

Average throughput: 216.90 Mbit/s

95th percentile per-packet one-way delay: 251.507 ms

Loss rate: 6.39%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-19 21:01:22

End at: 2018-02-19 21:01:52

Below is generated by plot.py at 2018-02-20 00:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.41 Mbit/s

95th percentile per-packet one-way delay: 238.470 ms

Loss rate: 2.33%

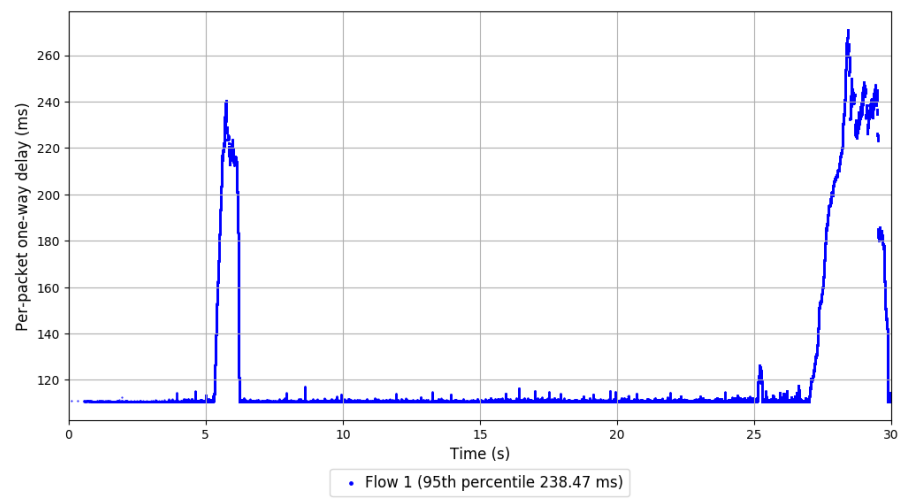
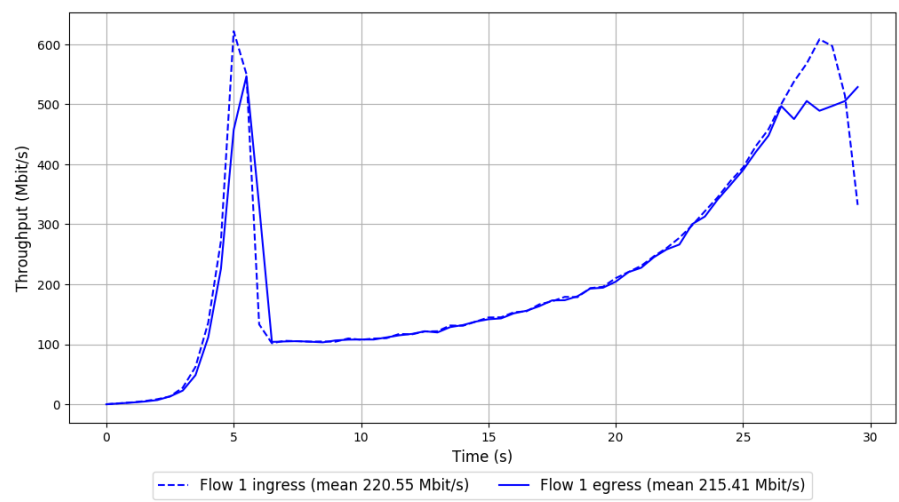
-- Flow 1:

Average throughput: 215.41 Mbit/s

95th percentile per-packet one-way delay: 238.470 ms

Loss rate: 2.33%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-19 21:16:48

End at: 2018-02-19 21:17:18

Below is generated by plot.py at 2018-02-20 00:26:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.31 Mbit/s

95th percentile per-packet one-way delay: 246.079 ms

Loss rate: 3.25%

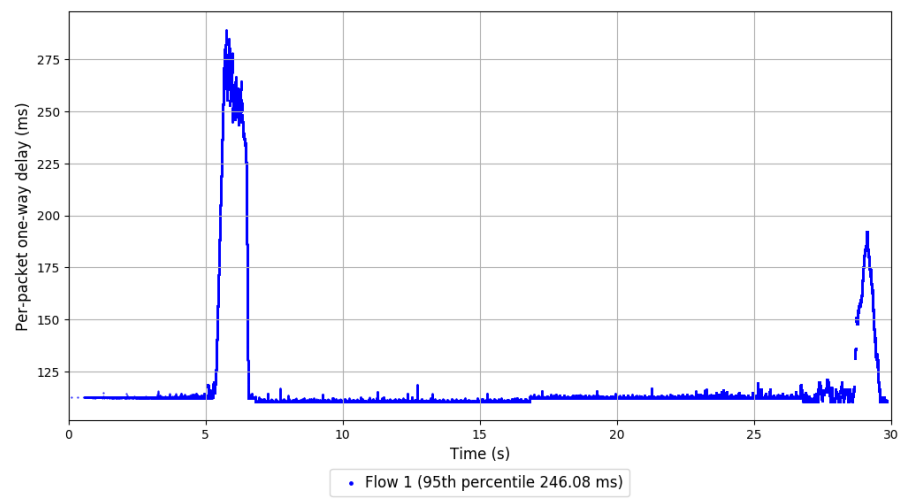
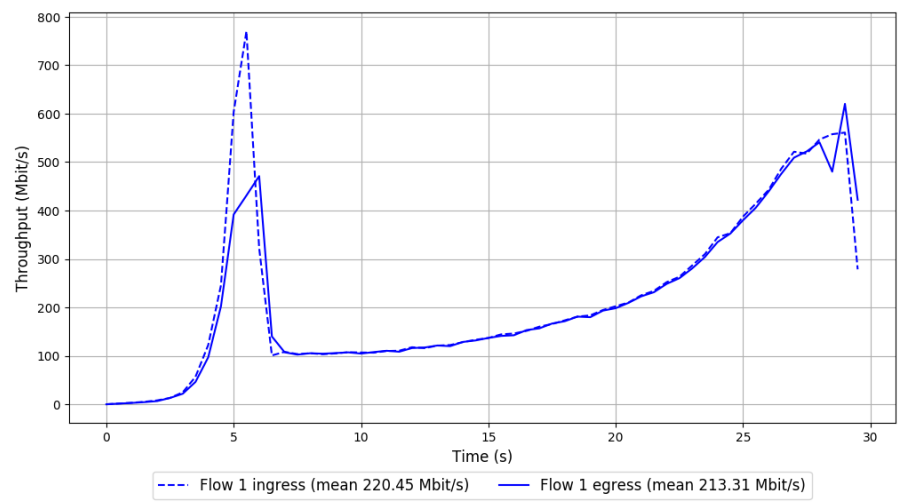
-- Flow 1:

Average throughput: 213.31 Mbit/s

95th percentile per-packet one-way delay: 246.079 ms

Loss rate: 3.25%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-19 21:32:14

End at: 2018-02-19 21:32:44

Below is generated by plot.py at 2018-02-20 00:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.26 Mbit/s

95th percentile per-packet one-way delay: 231.116 ms

Loss rate: 2.77%

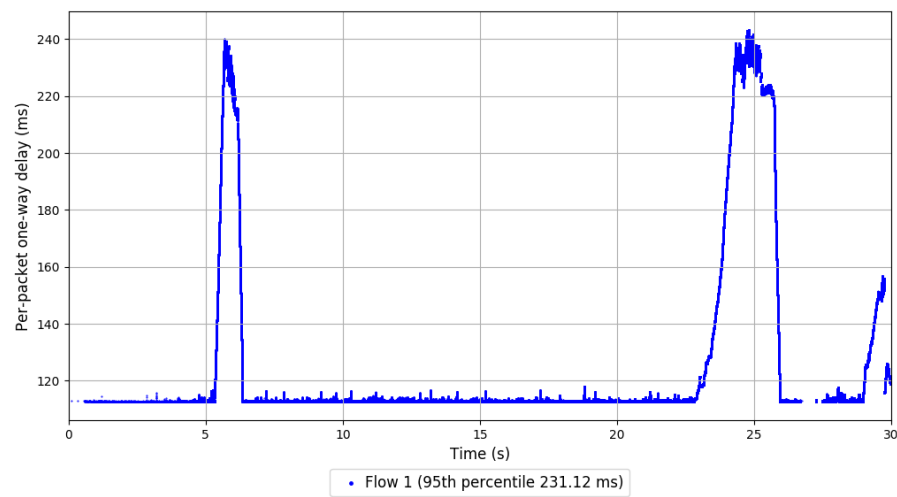
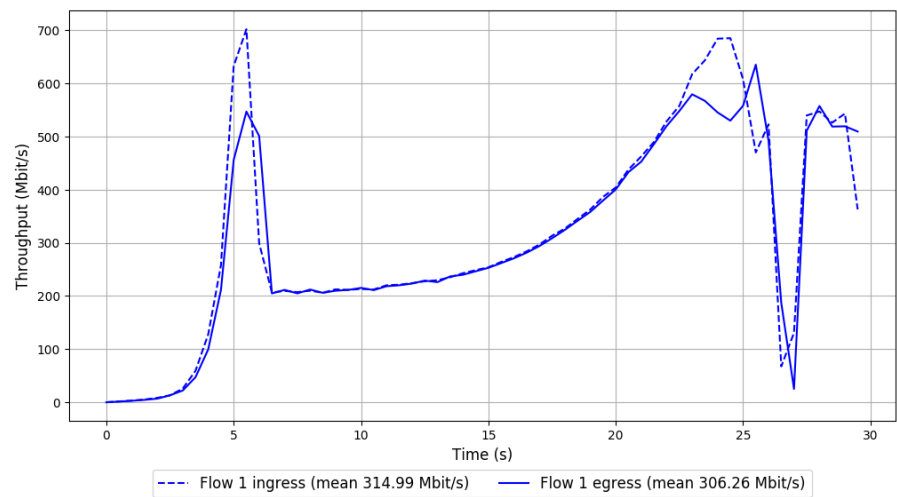
-- Flow 1:

Average throughput: 306.26 Mbit/s

95th percentile per-packet one-way delay: 231.116 ms

Loss rate: 2.77%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-19 21:47:46

End at: 2018-02-19 21:48:16

Below is generated by plot.py at 2018-02-20 00:27:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.16 Mbit/s

95th percentile per-packet one-way delay: 235.415 ms

Loss rate: 5.55%

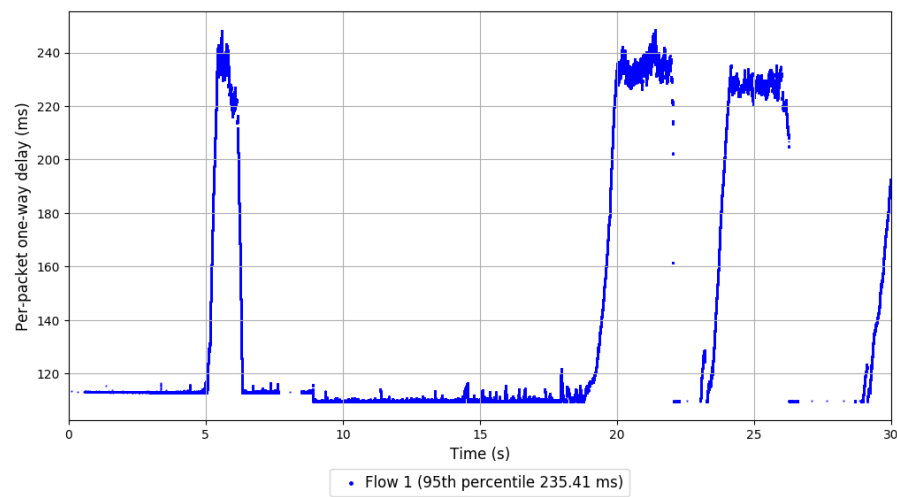
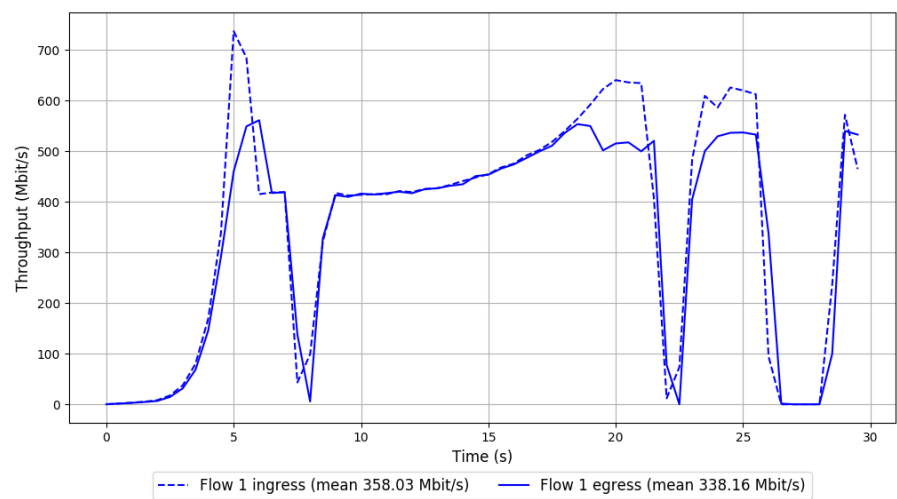
-- Flow 1:

Average throughput: 338.16 Mbit/s

95th percentile per-packet one-way delay: 235.415 ms

Loss rate: 5.55%

Run 10: Report of Vivace-loss — Data Link

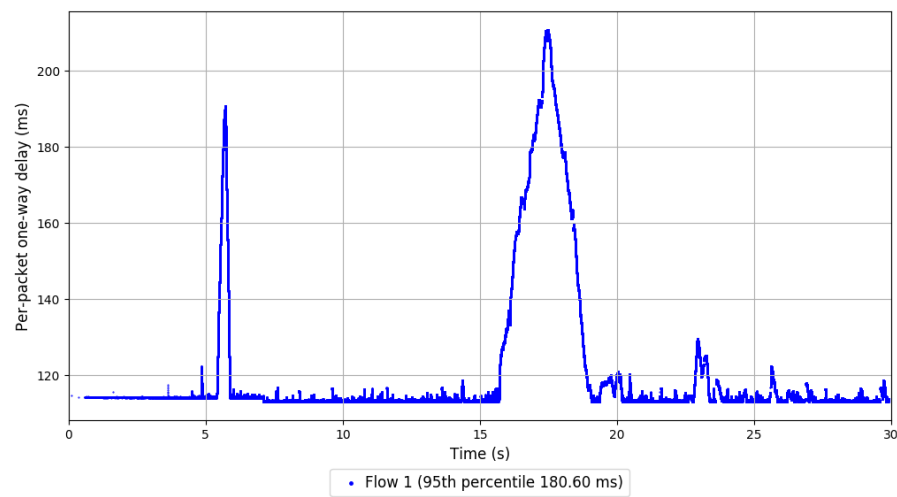
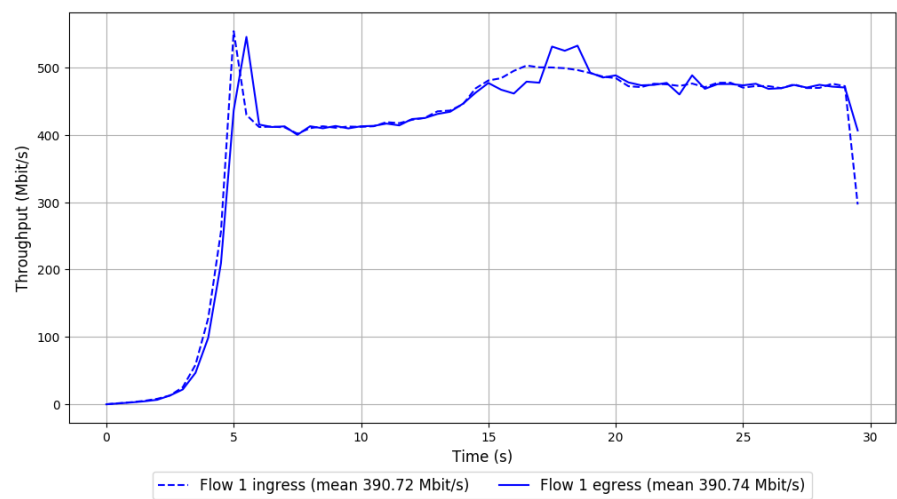


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-19 19:26:28
End at: 2018-02-19 19:26:58

# Below is generated by plot.py at 2018-02-20 00:30:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.74 Mbit/s
95th percentile per-packet one-way delay: 180.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 390.74 Mbit/s
95th percentile per-packet one-way delay: 180.602 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-19 19:41:48

End at: 2018-02-19 19:42:18

Below is generated by plot.py at 2018-02-20 00:30:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.11 Mbit/s

95th percentile per-packet one-way delay: 202.023 ms

Loss rate: 0.18%

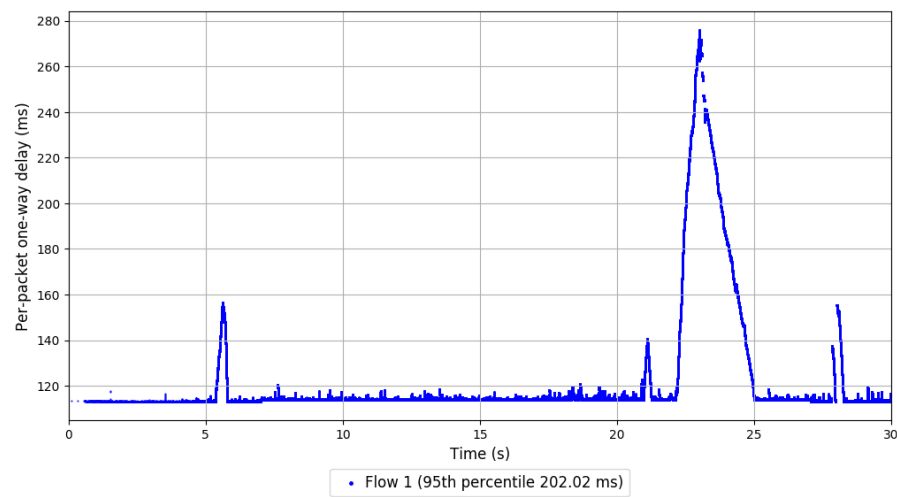
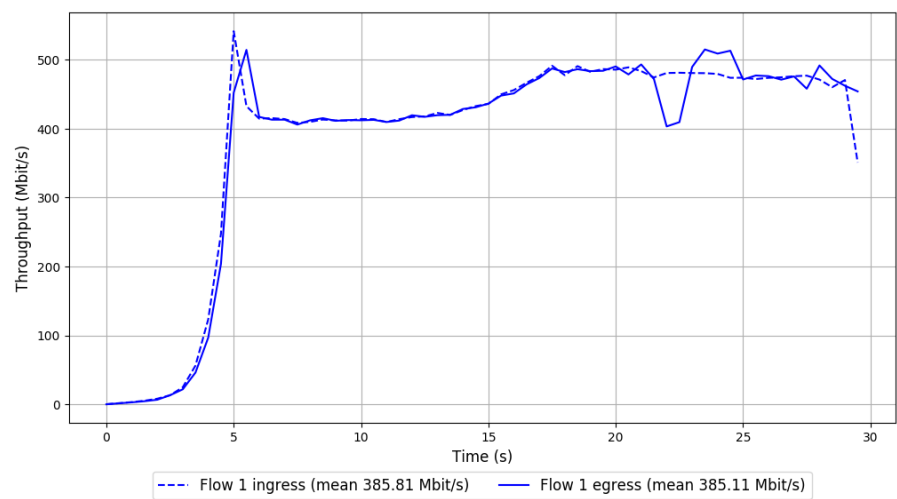
-- Flow 1:

Average throughput: 385.11 Mbit/s

95th percentile per-packet one-way delay: 202.023 ms

Loss rate: 0.18%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-19 19:57:40

End at: 2018-02-19 19:58:10

Below is generated by plot.py at 2018-02-20 00:30:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.54 Mbit/s

95th percentile per-packet one-way delay: 150.816 ms

Loss rate: 0.06%

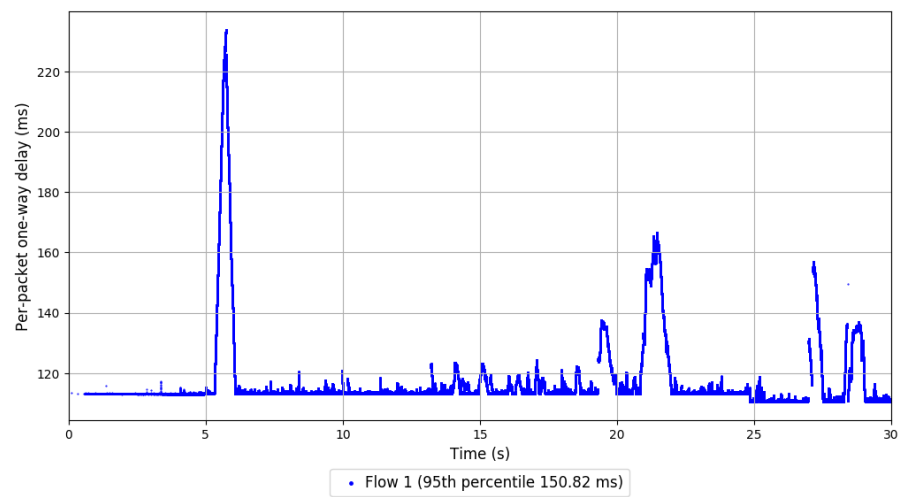
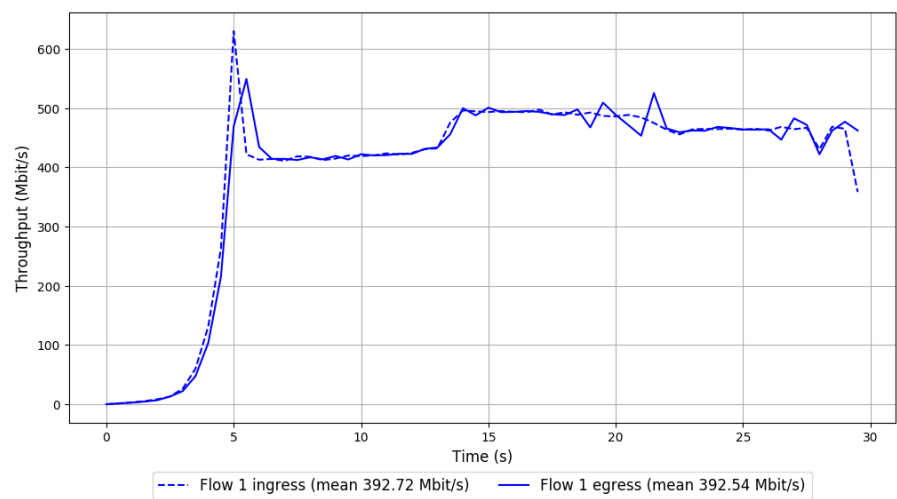
-- Flow 1:

Average throughput: 392.54 Mbit/s

95th percentile per-packet one-way delay: 150.816 ms

Loss rate: 0.06%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-19 20:13:13

End at: 2018-02-19 20:13:43

Below is generated by plot.py at 2018-02-20 00:30:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.18 Mbit/s

95th percentile per-packet one-way delay: 326.849 ms

Loss rate: 4.57%

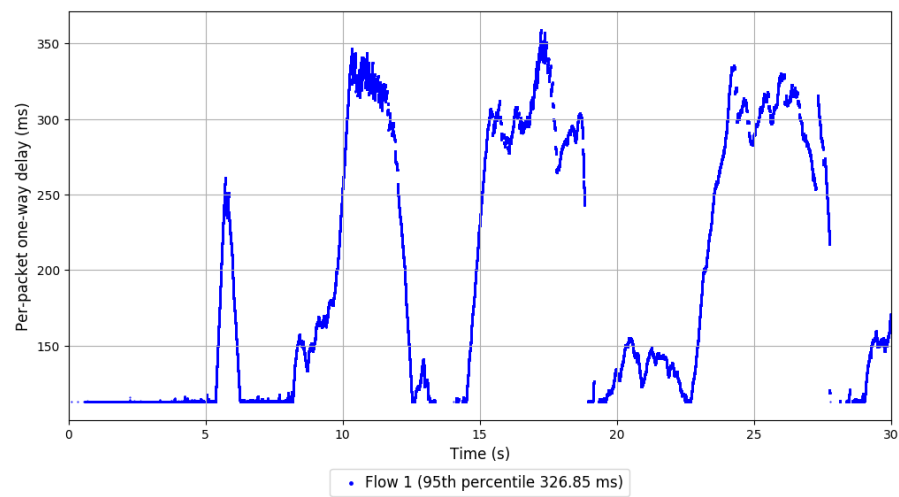
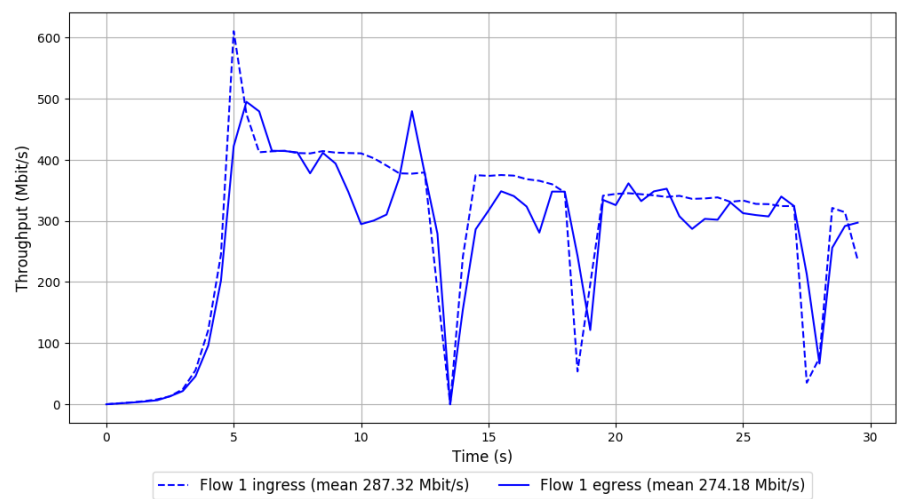
-- Flow 1:

Average throughput: 274.18 Mbit/s

95th percentile per-packet one-way delay: 326.849 ms

Loss rate: 4.57%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-19 20:28:18

End at: 2018-02-19 20:28:48

Below is generated by plot.py at 2018-02-20 00:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.05 Mbit/s

95th percentile per-packet one-way delay: 149.763 ms

Loss rate: 0.35%

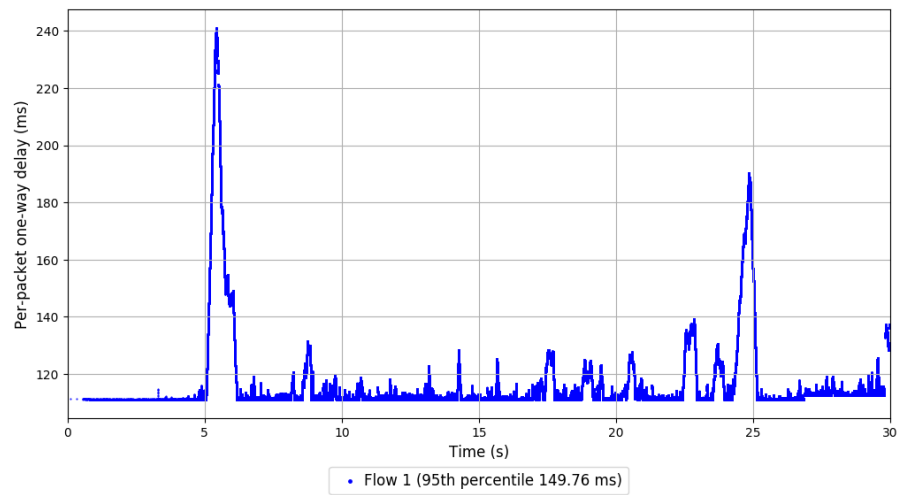
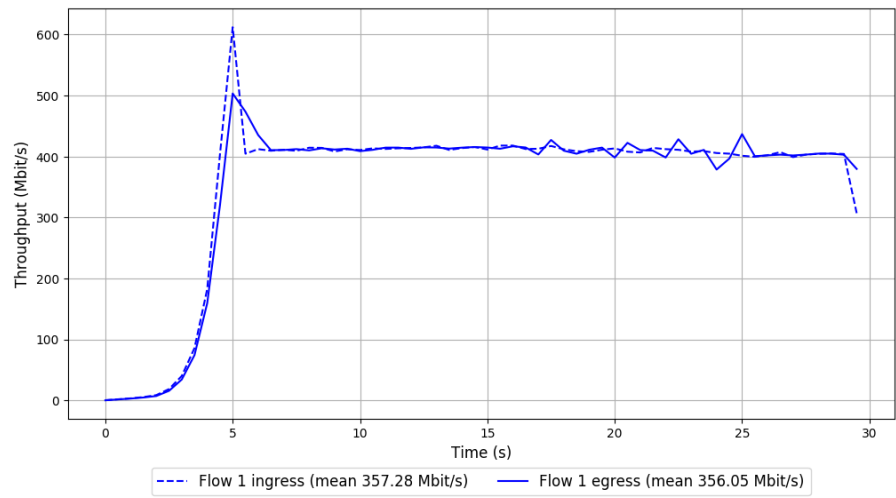
-- Flow 1:

Average throughput: 356.05 Mbit/s

95th percentile per-packet one-way delay: 149.763 ms

Loss rate: 0.35%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-19 20:43:59

End at: 2018-02-19 20:44:29

Below is generated by plot.py at 2018-02-20 00:32:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.08 Mbit/s

95th percentile per-packet one-way delay: 211.791 ms

Loss rate: 0.61%

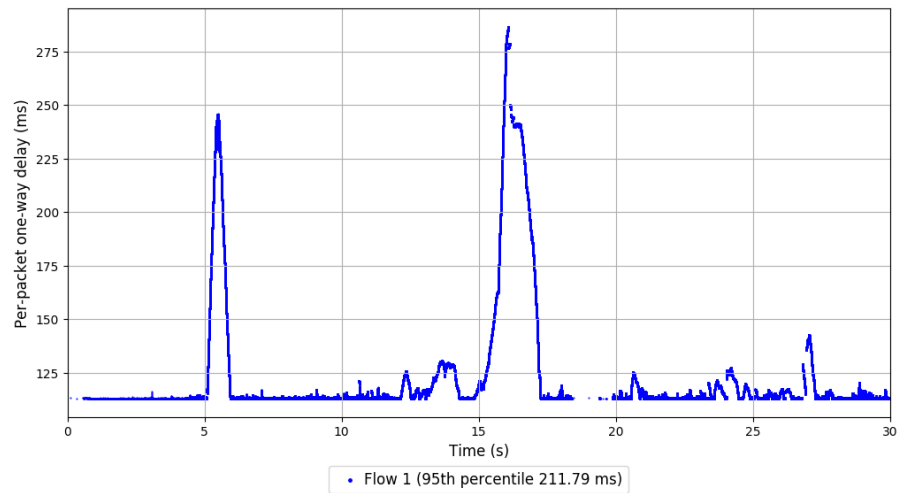
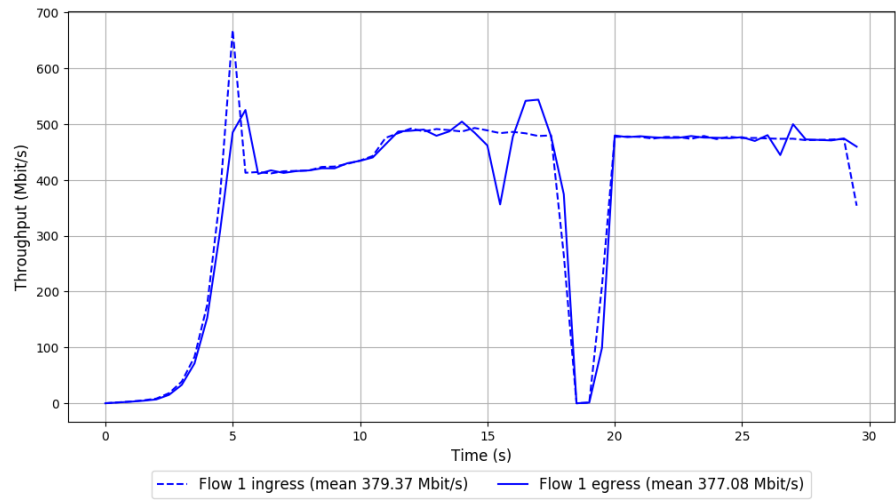
-- Flow 1:

Average throughput: 377.08 Mbit/s

95th percentile per-packet one-way delay: 211.791 ms

Loss rate: 0.61%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-19 20:59:21

End at: 2018-02-19 20:59:51

Below is generated by plot.py at 2018-02-20 00:32:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.00 Mbit/s

95th percentile per-packet one-way delay: 141.158 ms

Loss rate: 0.93%

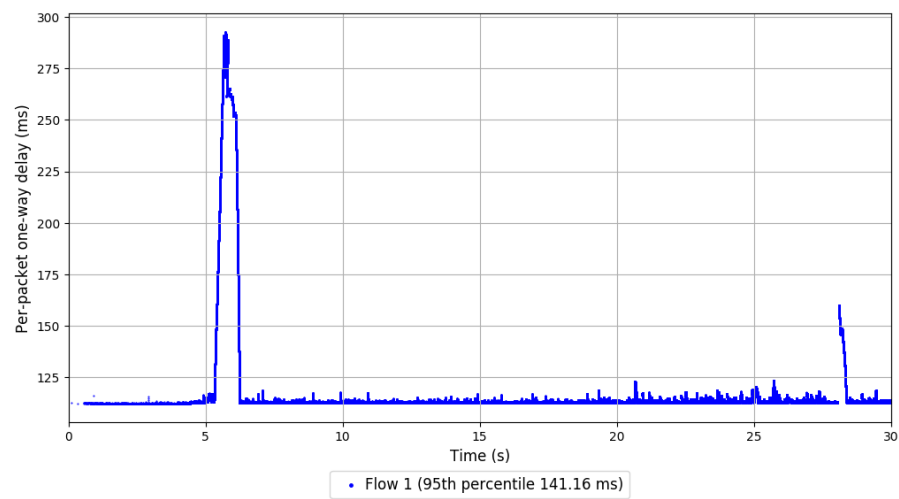
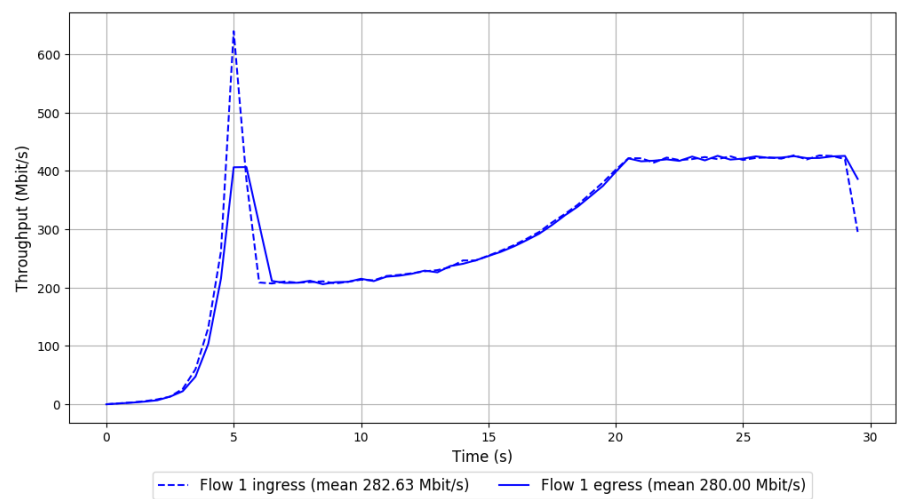
-- Flow 1:

Average throughput: 280.00 Mbit/s

95th percentile per-packet one-way delay: 141.158 ms

Loss rate: 0.93%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-19 21:14:33

End at: 2018-02-19 21:15:04

Below is generated by plot.py at 2018-02-20 00:32:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.72 Mbit/s

95th percentile per-packet one-way delay: 230.030 ms

Loss rate: 0.52%

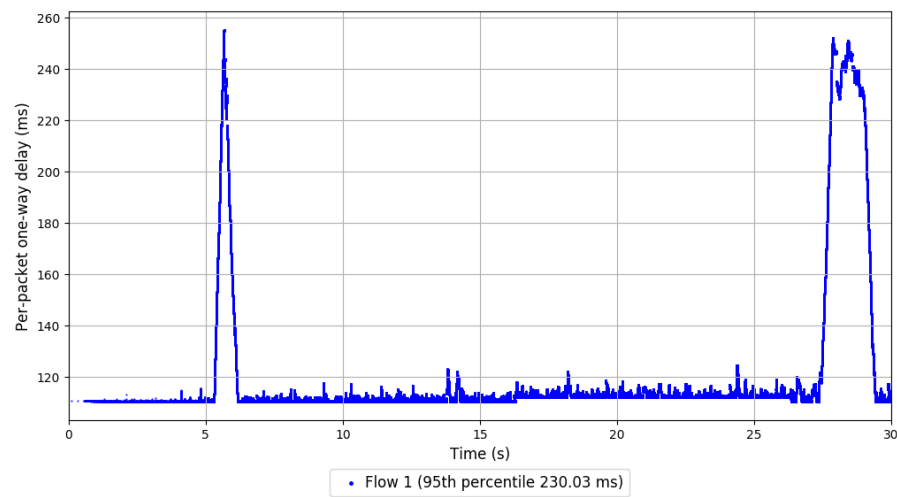
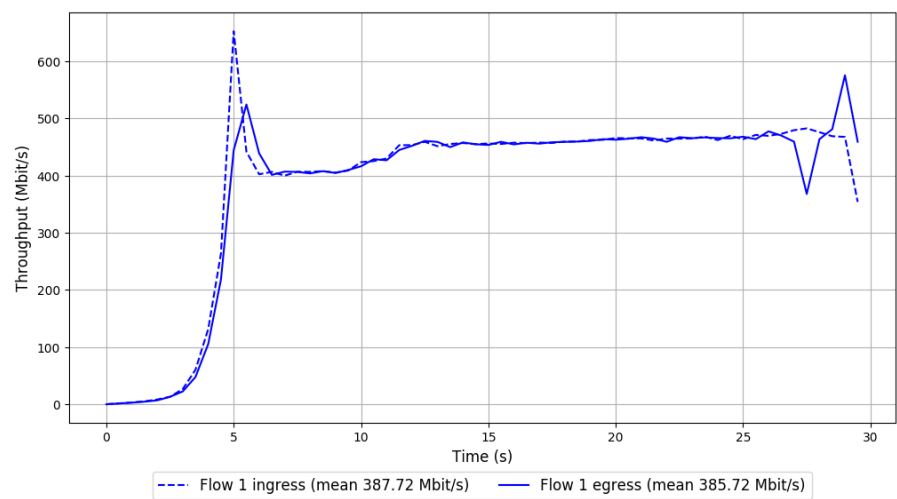
-- Flow 1:

Average throughput: 385.72 Mbit/s

95th percentile per-packet one-way delay: 230.030 ms

Loss rate: 0.52%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-19 21:29:55

End at: 2018-02-19 21:30:25

Below is generated by plot.py at 2018-02-20 00:33:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.14 Mbit/s

95th percentile per-packet one-way delay: 120.604 ms

Loss rate: 0.24%

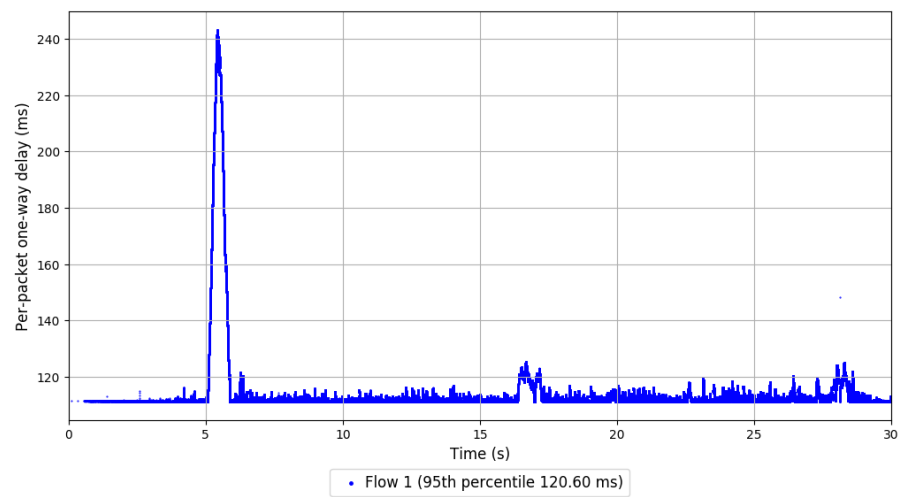
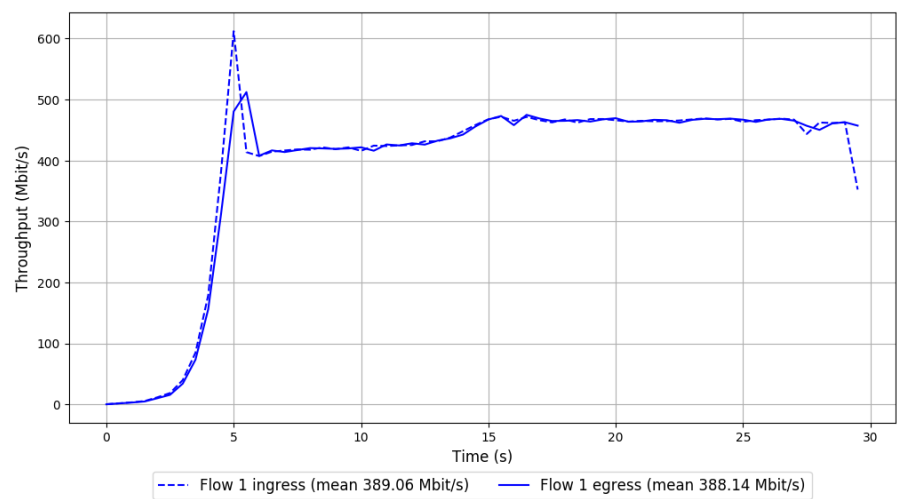
-- Flow 1:

Average throughput: 388.14 Mbit/s

95th percentile per-packet one-way delay: 120.604 ms

Loss rate: 0.24%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-19 21:45:34

End at: 2018-02-19 21:46:04

Below is generated by plot.py at 2018-02-20 00:33:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.22 Mbit/s

95th percentile per-packet one-way delay: 140.726 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 390.22 Mbit/s

95th percentile per-packet one-way delay: 140.726 ms

Loss rate: 0.07%

Run 10: Report of Vivace-LTE — Data Link

