

Pantheon Report

Generated at 2018-02-16 04:45:20 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

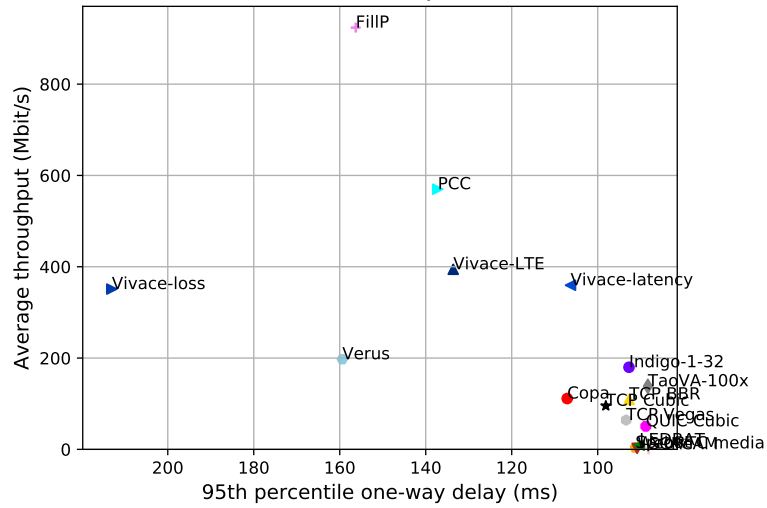
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

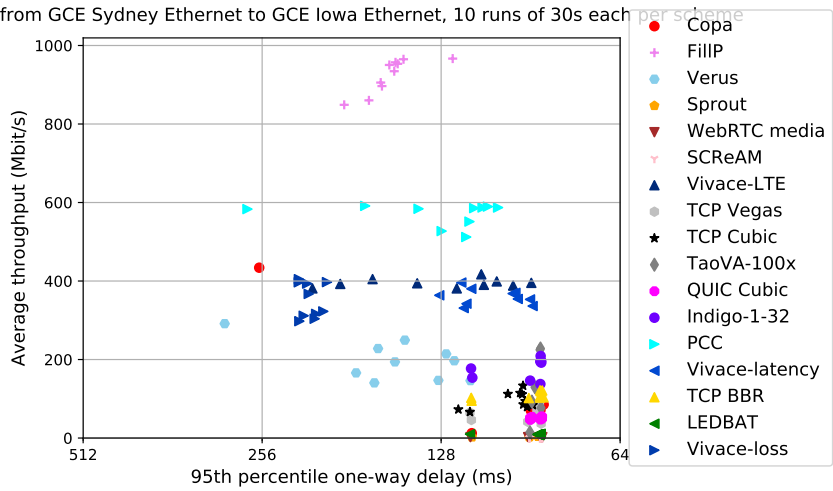
Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
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 Sydney Ethernet to GCE Iowa Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE Iowa Ethernet, 10 runs of 30s each



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	109.46	92.71	0.70
TCP Cubic	10	95.37	98.12	0.75
LEDBAT	10	9.29	90.34	1.30
PCC	10	569.88	137.20	1.78
QUIC Cubic	9	50.48	88.82	0.99
SCReAM	10	0.22	88.16	0.61
WebRTC media	10	2.12	90.84	0.82
Sprout	10	3.41	91.26	0.75
TaoVA-100x	7	138.20	88.34	0.86
TCP Vegas	10	64.09	93.39	0.65
Verus	10	197.37	159.42	2.30
Copa	10	111.29	107.09	4.06
FillP	10	923.82	156.29	3.87
Indigo-1-32	10	179.84	92.73	0.74
Vivace-latency	10	359.49	106.33	0.89
Vivace-loss	10	351.13	213.01	4.65
Vivace-LTE	10	394.47	133.61	0.94

Run 1: Statistics of TCP BBR

Start at: 2018-02-15 22:01:29

End at: 2018-02-15 22:01:59

Below is generated by plot.py at 2018-02-16 03:19:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.69 Mbit/s

95th percentile per-packet one-way delay: 87.268 ms

Loss rate: 0.64%

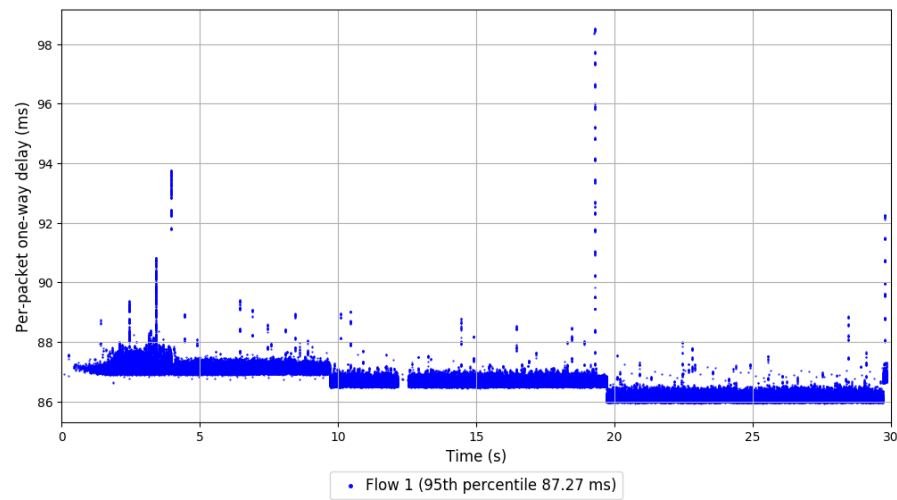
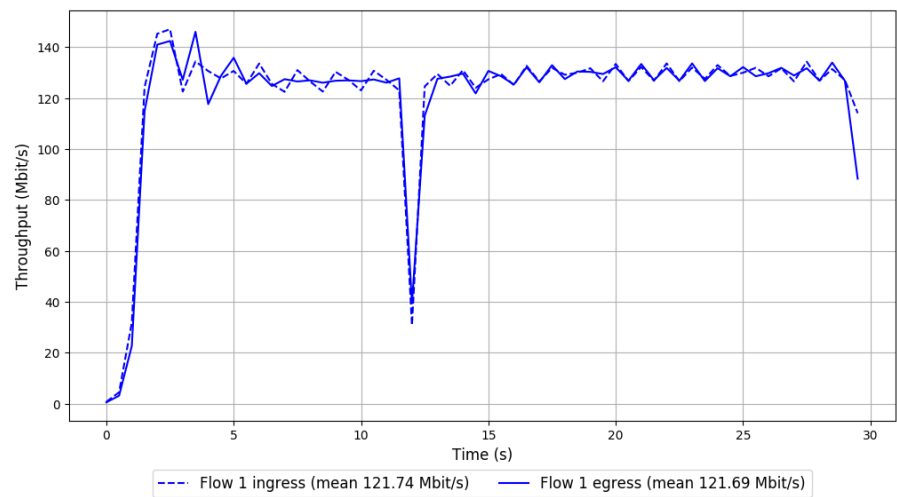
-- Flow 1:

Average throughput: 121.69 Mbit/s

95th percentile per-packet one-way delay: 87.268 ms

Loss rate: 0.64%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-15 22:17:08

End at: 2018-02-15 22:17:38

Below is generated by plot.py at 2018-02-16 03:19:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.14 Mbit/s

95th percentile per-packet one-way delay: 87.306 ms

Loss rate: 0.76%

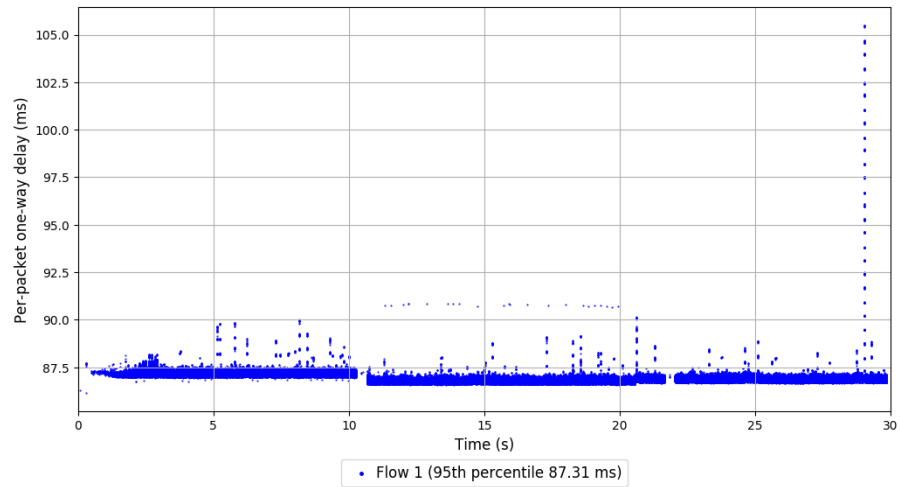
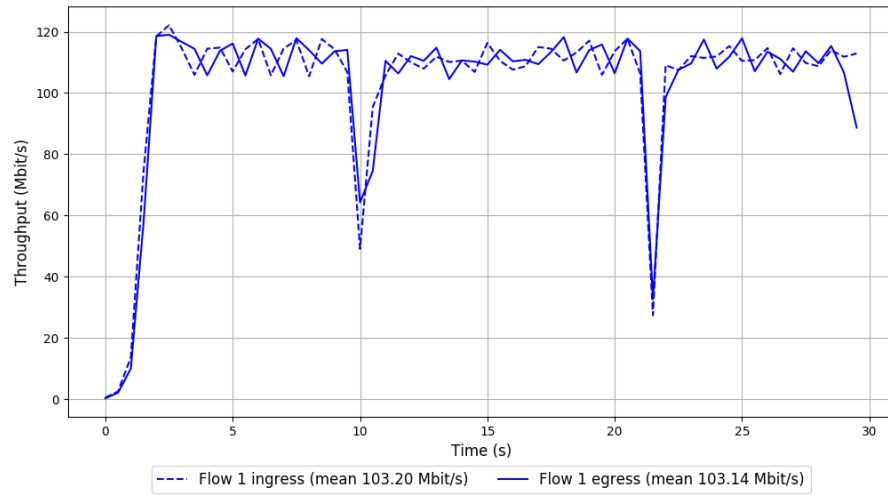
-- Flow 1:

Average throughput: 103.14 Mbit/s

95th percentile per-packet one-way delay: 87.306 ms

Loss rate: 0.76%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-15 22:33:20

End at: 2018-02-15 22:33:50

Below is generated by plot.py at 2018-02-16 03:19:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.48 Mbit/s

95th percentile per-packet one-way delay: 87.074 ms

Loss rate: 0.67%

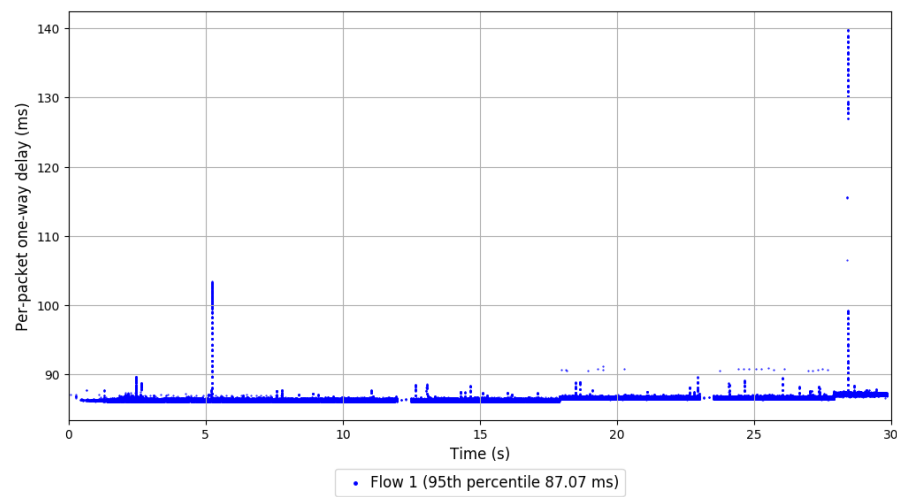
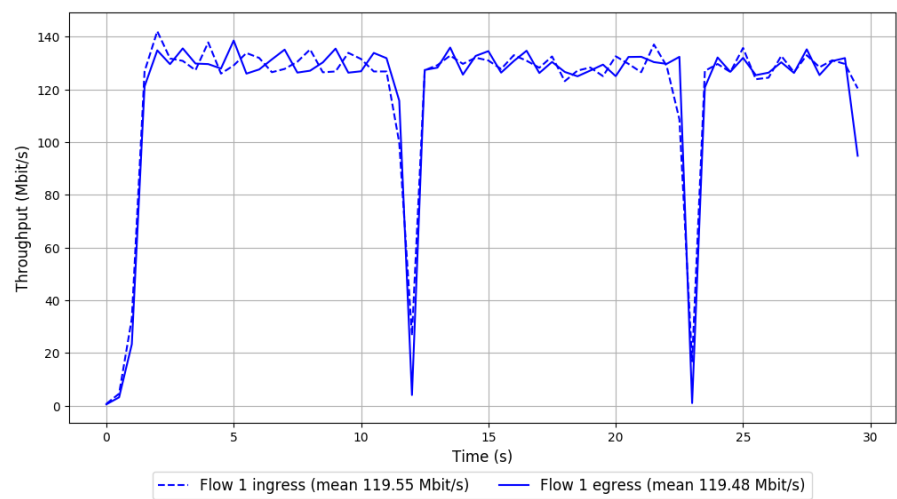
-- Flow 1:

Average throughput: 119.48 Mbit/s

95th percentile per-packet one-way delay: 87.074 ms

Loss rate: 0.67%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-15 22:48:38

End at: 2018-02-15 22:49:08

Below is generated by plot.py at 2018-02-16 03:19:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.21 Mbit/s

95th percentile per-packet one-way delay: 87.203 ms

Loss rate: 0.67%

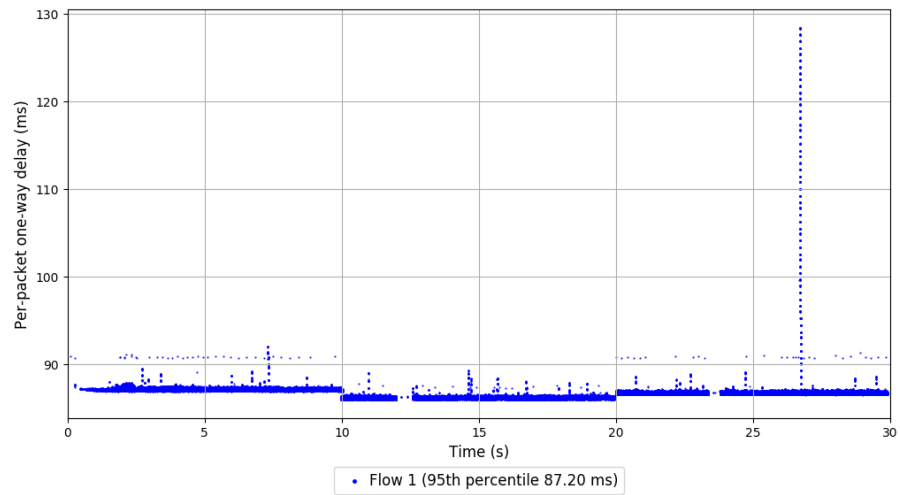
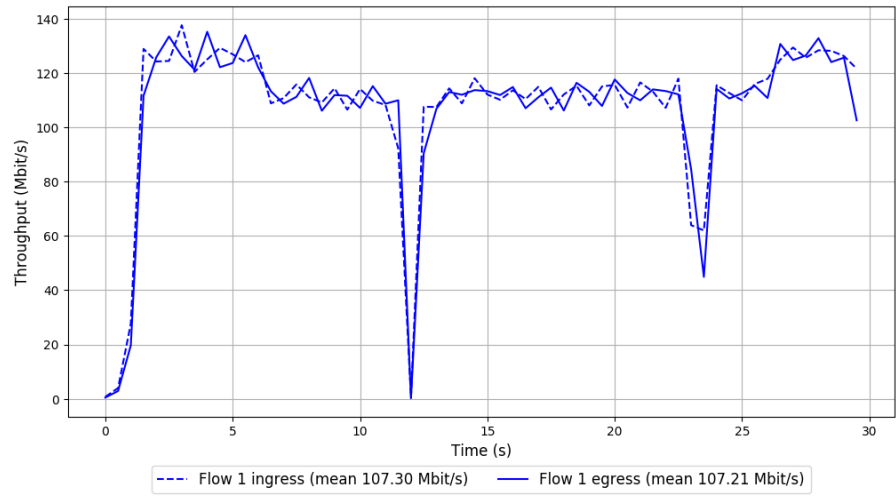
-- Flow 1:

Average throughput: 107.21 Mbit/s

95th percentile per-packet one-way delay: 87.203 ms

Loss rate: 0.67%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-15 23:04:09

End at: 2018-02-15 23:04:39

Below is generated by plot.py at 2018-02-16 03:19:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.29 Mbit/s

95th percentile per-packet one-way delay: 86.525 ms

Loss rate: 0.66%

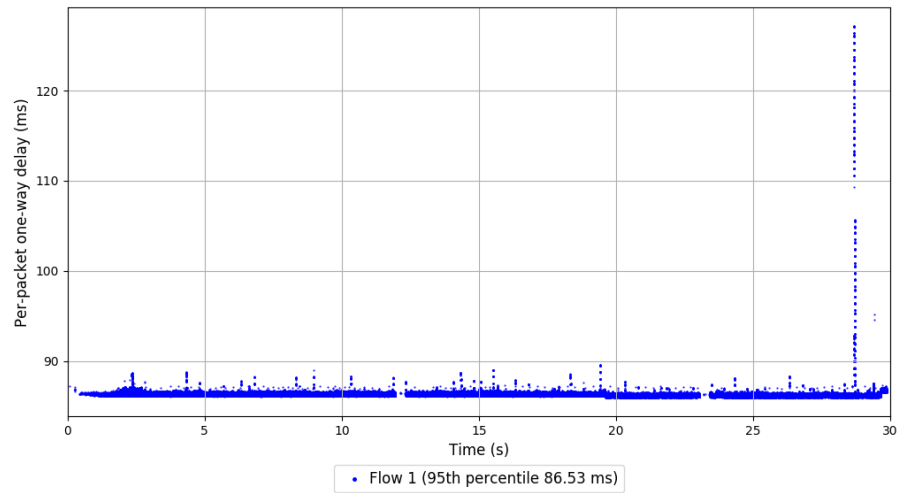
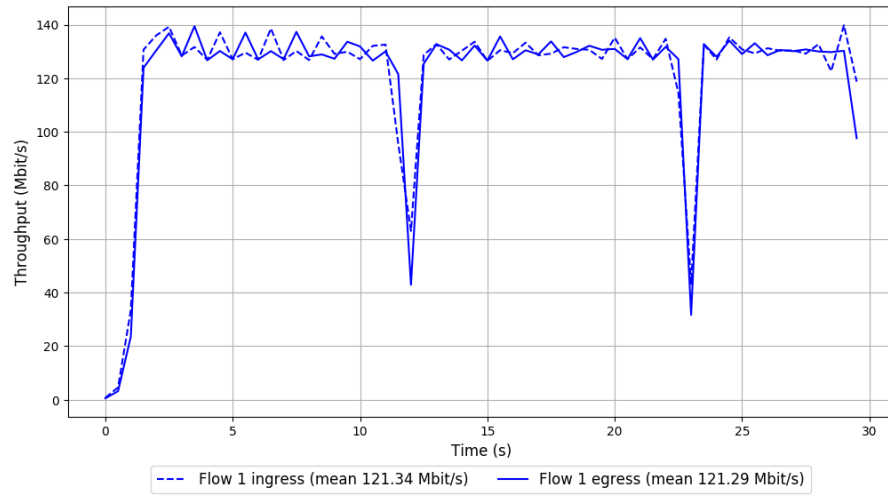
-- Flow 1:

Average throughput: 121.29 Mbit/s

95th percentile per-packet one-way delay: 86.525 ms

Loss rate: 0.66%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-15 23:19:56

End at: 2018-02-15 23:20:26

Below is generated by plot.py at 2018-02-16 03:19:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.87 Mbit/s

95th percentile per-packet one-way delay: 91.144 ms

Loss rate: 0.71%

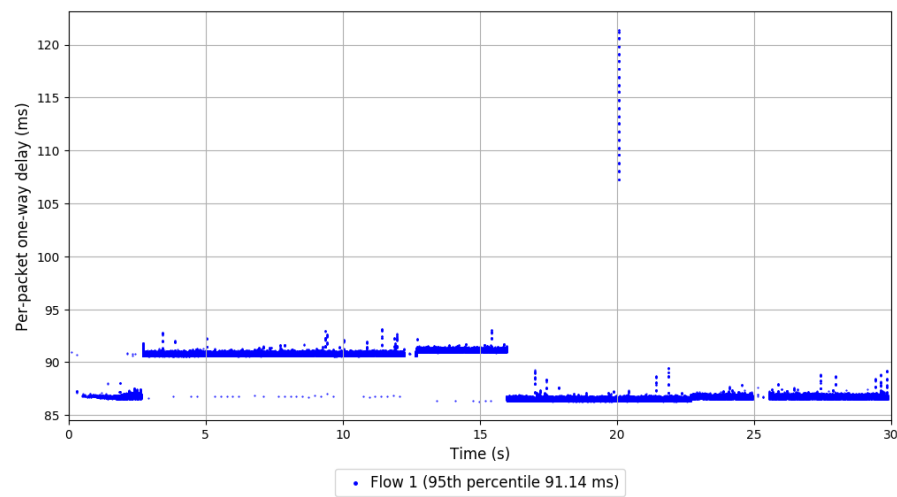
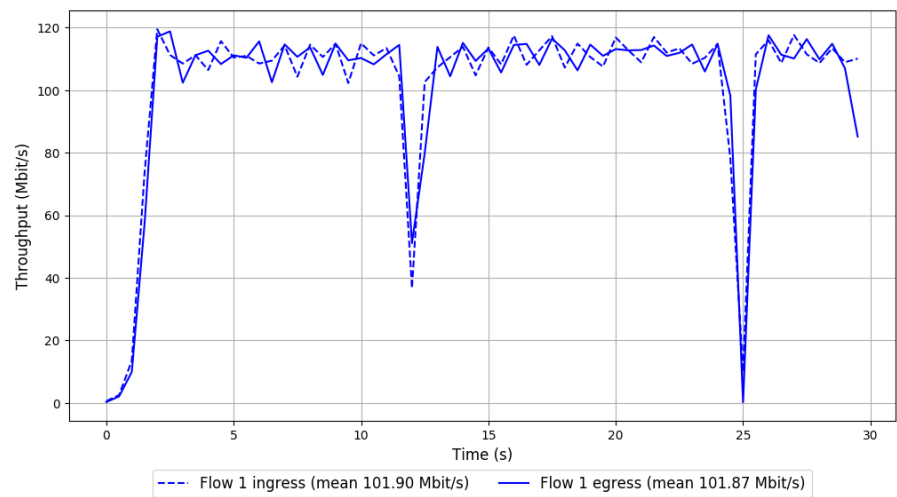
-- Flow 1:

Average throughput: 101.87 Mbit/s

95th percentile per-packet one-way delay: 91.144 ms

Loss rate: 0.71%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-15 23:35:43

End at: 2018-02-15 23:36:13

Below is generated by plot.py at 2018-02-16 03:19:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.63 Mbit/s

95th percentile per-packet one-way delay: 86.092 ms

Loss rate: 0.69%

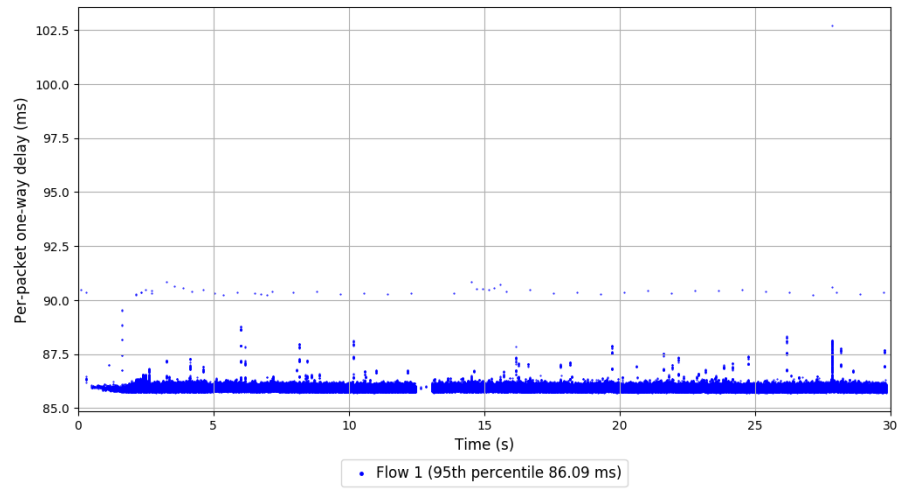
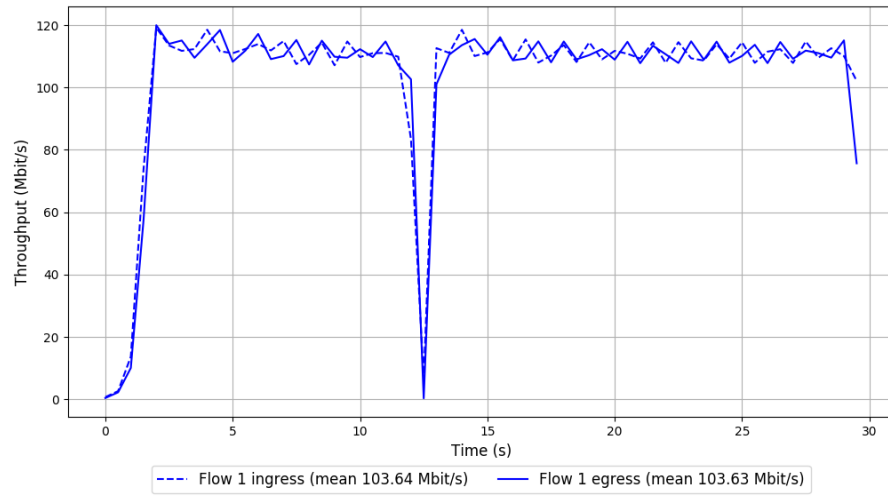
-- Flow 1:

Average throughput: 103.63 Mbit/s

95th percentile per-packet one-way delay: 86.092 ms

Loss rate: 0.69%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-15 23:51:15

End at: 2018-02-15 23:51:45

Below is generated by plot.py at 2018-02-16 03:19:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 113.748 ms

Loss rate: 0.74%

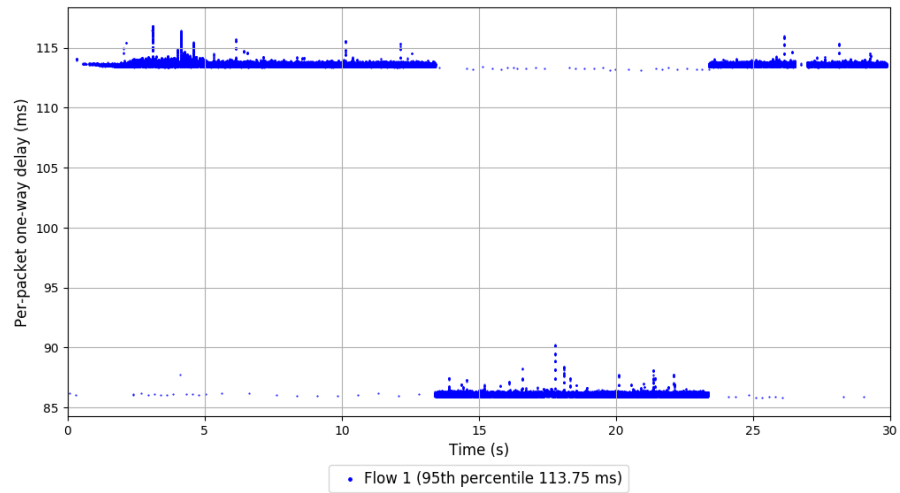
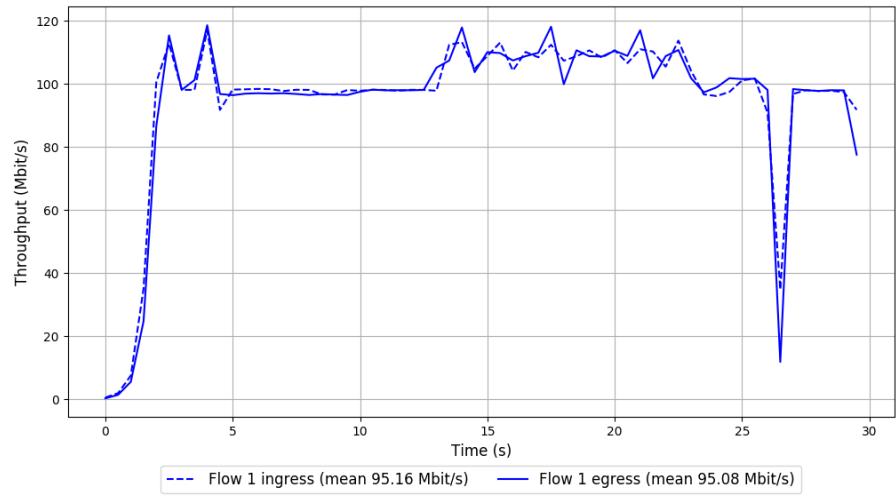
-- Flow 1:

Average throughput: 95.08 Mbit/s

95th percentile per-packet one-way delay: 113.748 ms

Loss rate: 0.74%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 00:06:28

End at: 2018-02-16 00:06:58

Below is generated by plot.py at 2018-02-16 03:21:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.53 Mbit/s

95th percentile per-packet one-way delay: 113.910 ms

Loss rate: 0.82%

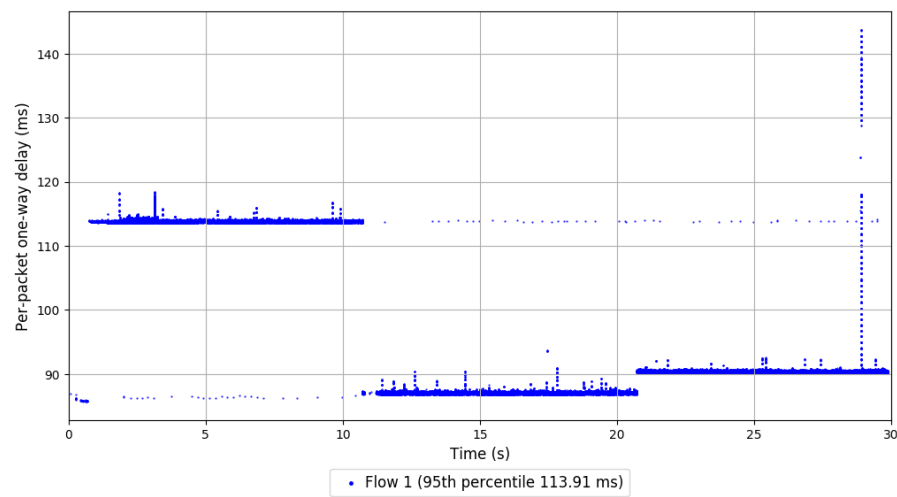
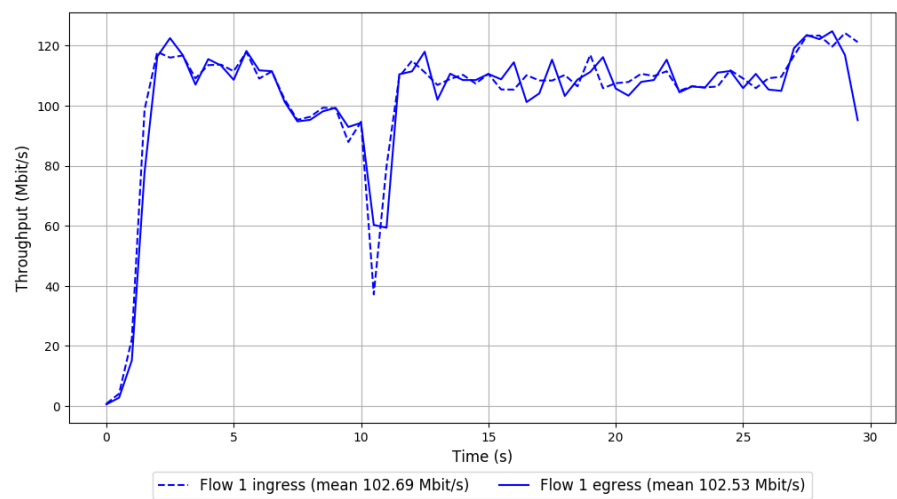
-- Flow 1:

Average throughput: 102.53 Mbit/s

95th percentile per-packet one-way delay: 113.910 ms

Loss rate: 0.82%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 00:21:59

End at: 2018-02-16 00:22:29

Below is generated by plot.py at 2018-02-16 03:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.73 Mbit/s

95th percentile per-packet one-way delay: 86.790 ms

Loss rate: 0.63%

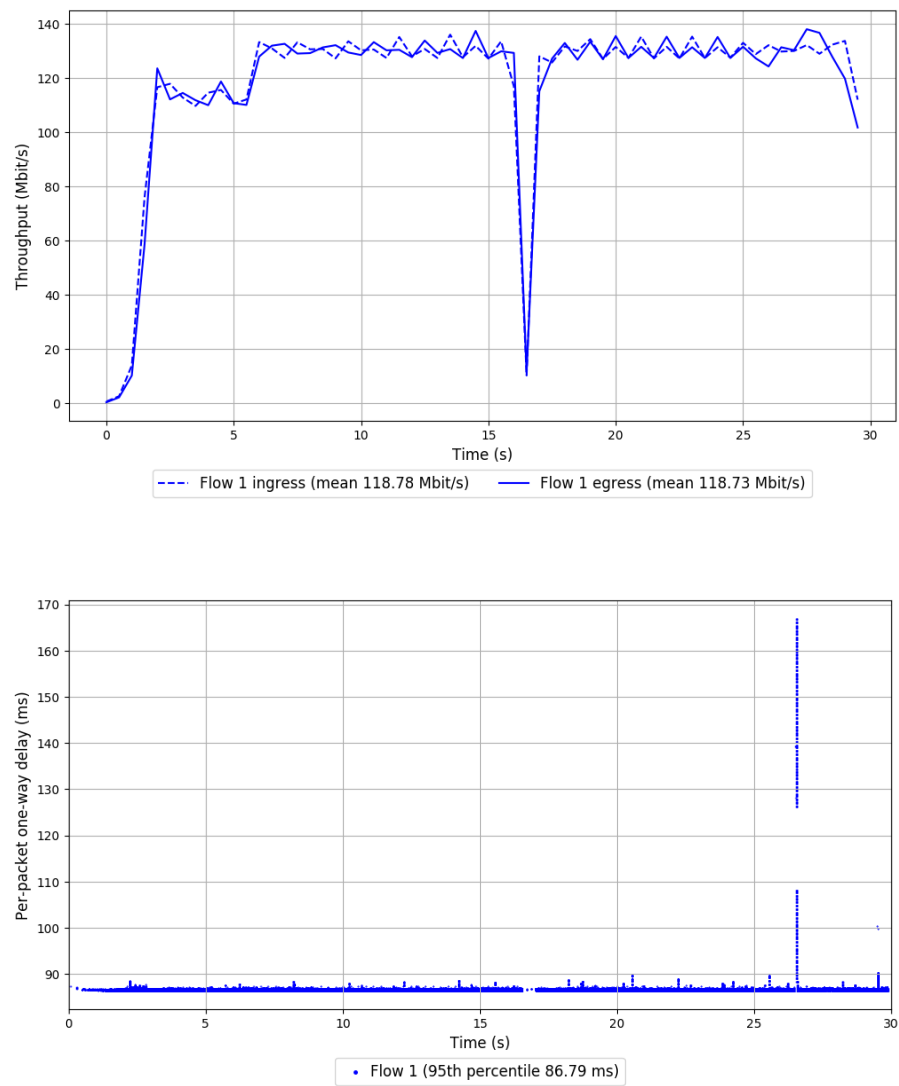
-- Flow 1:

Average throughput: 118.73 Mbit/s

95th percentile per-packet one-way delay: 86.790 ms

Loss rate: 0.63%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-15 22:00:43

End at: 2018-02-15 22:01:13

Below is generated by plot.py at 2018-02-16 03:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 89.735 ms

Loss rate: 0.49%

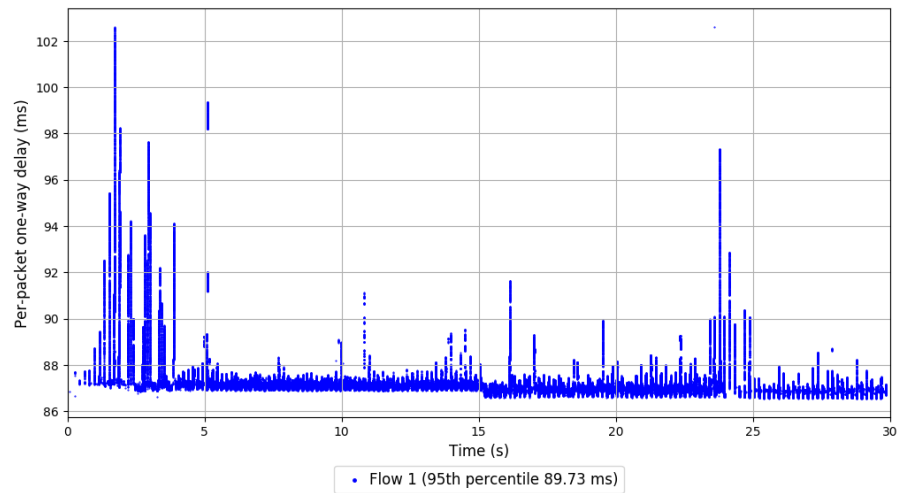
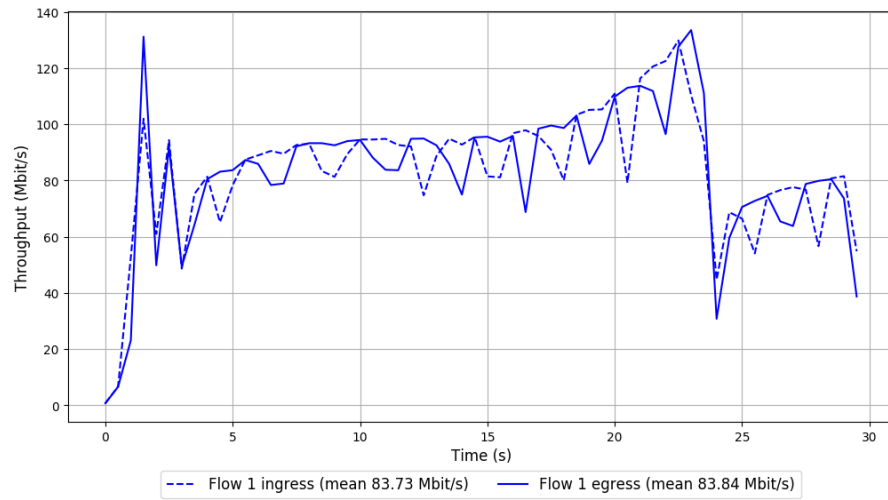
-- Flow 1:

Average throughput: 83.84 Mbit/s

95th percentile per-packet one-way delay: 89.735 ms

Loss rate: 0.49%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-15 22:16:21

End at: 2018-02-15 22:16:51

Below is generated by plot.py at 2018-02-16 03:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.82 Mbit/s

95th percentile per-packet one-way delay: 94.264 ms

Loss rate: 0.63%

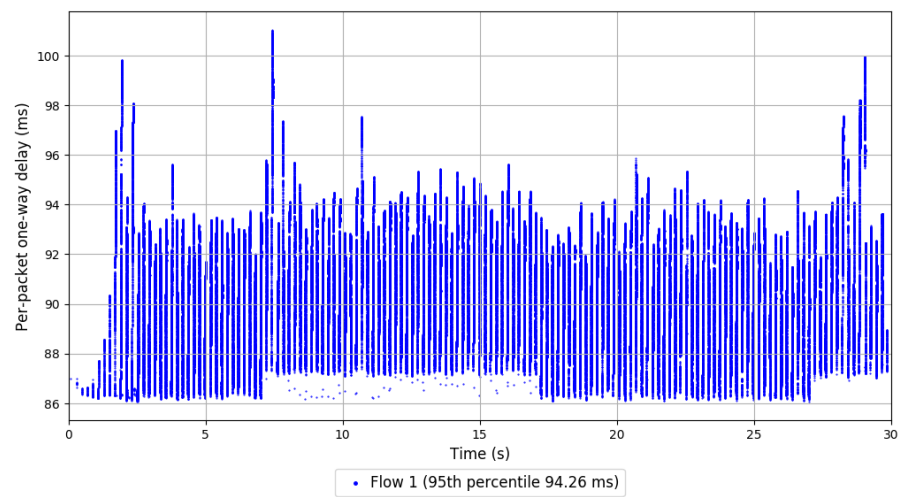
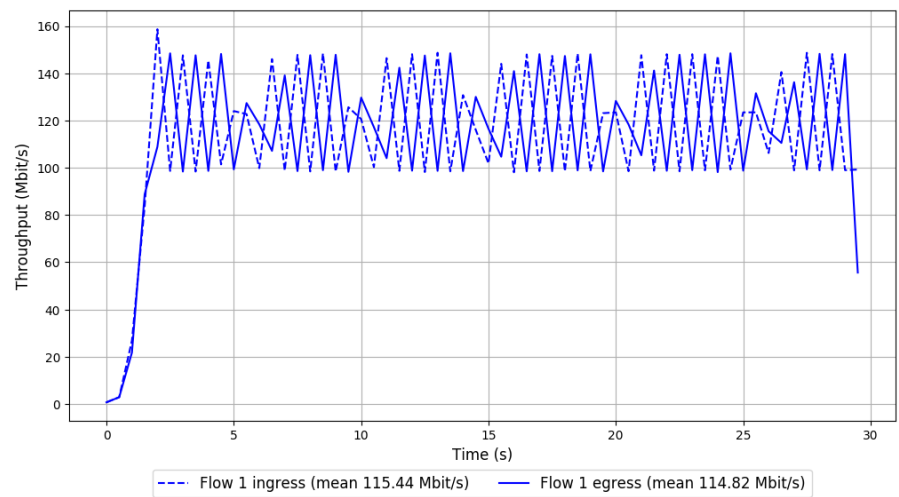
-- Flow 1:

Average throughput: 114.82 Mbit/s

95th percentile per-packet one-way delay: 94.264 ms

Loss rate: 0.63%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-15 22:32:36

End at: 2018-02-15 22:33:06

Below is generated by plot.py at 2018-02-16 03:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 93.140 ms

Loss rate: 0.86%

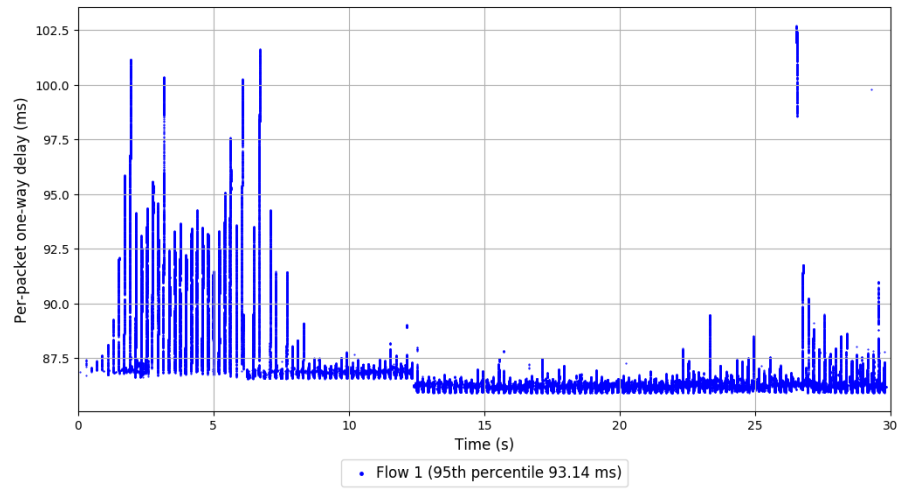
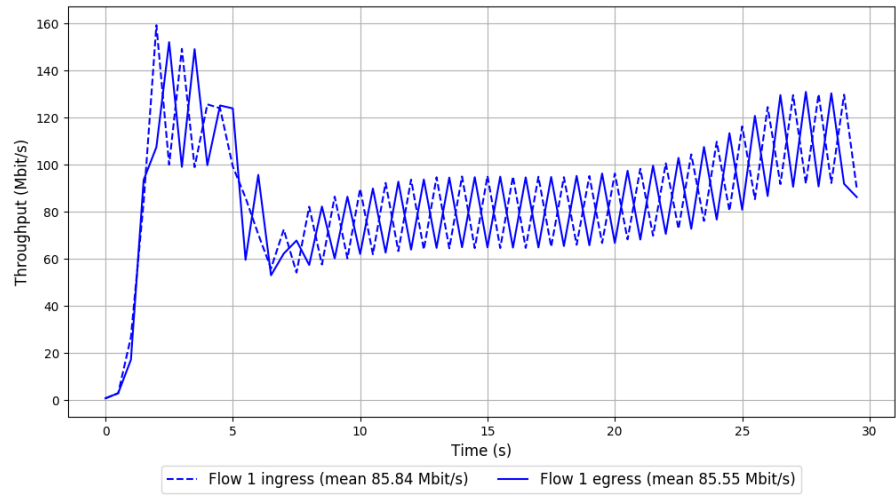
-- Flow 1:

Average throughput: 85.55 Mbit/s

95th percentile per-packet one-way delay: 93.140 ms

Loss rate: 0.86%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-15 22:47:53

End at: 2018-02-15 22:48:23

Below is generated by plot.py at 2018-02-16 03:21:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 91.773 ms

Loss rate: 1.04%

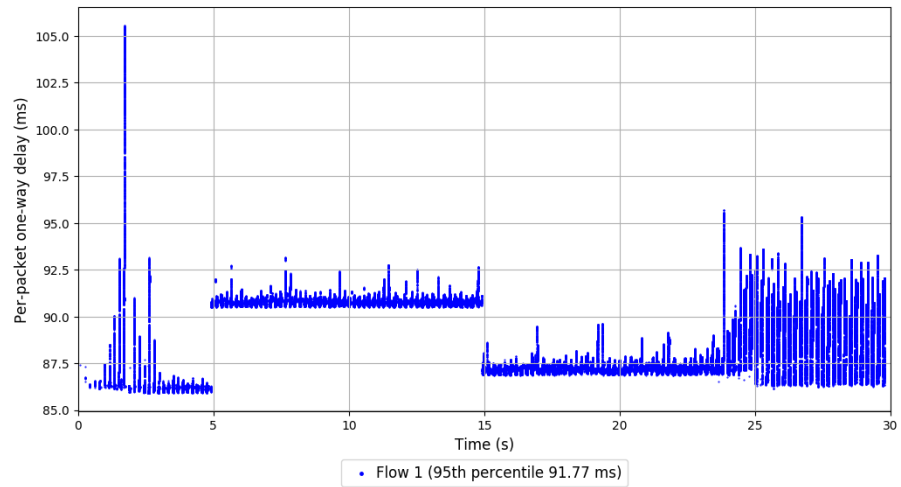
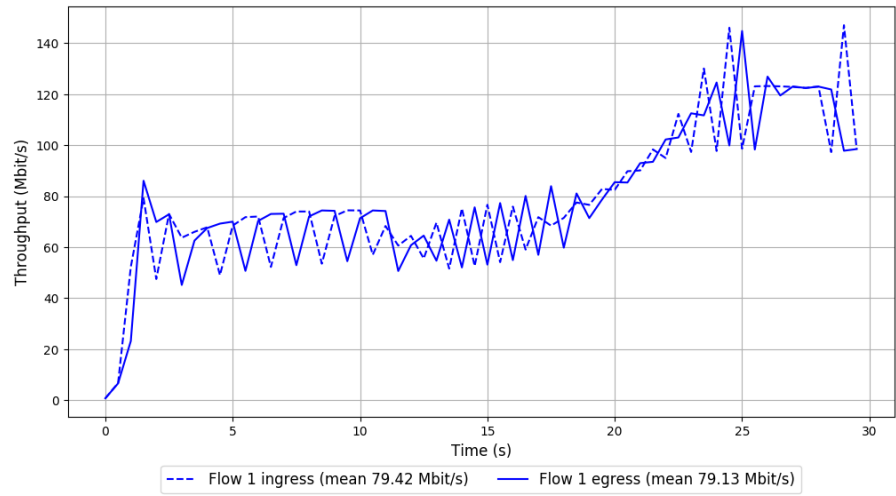
-- Flow 1:

Average throughput: 79.13 Mbit/s

95th percentile per-packet one-way delay: 91.773 ms

Loss rate: 1.04%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-15 23:03:20

End at: 2018-02-15 23:03:50

Below is generated by plot.py at 2018-02-16 03:22:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.35 Mbit/s

95th percentile per-packet one-way delay: 93.202 ms

Loss rate: 0.61%

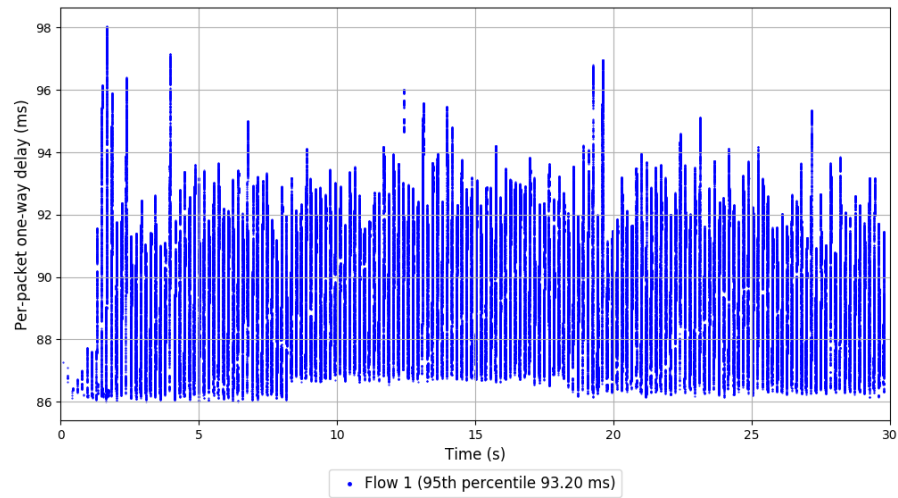
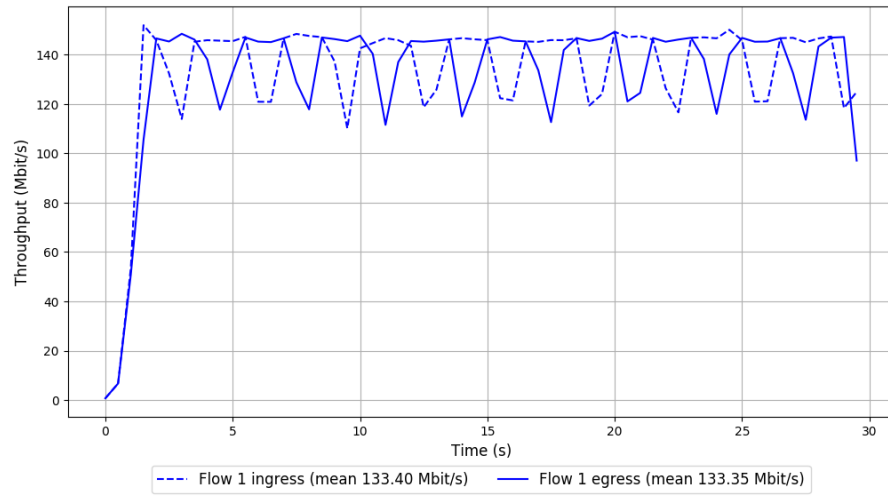
-- Flow 1:

Average throughput: 133.35 Mbit/s

95th percentile per-packet one-way delay: 93.202 ms

Loss rate: 0.61%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-15 23:19:09

End at: 2018-02-15 23:19:39

Below is generated by plot.py at 2018-02-16 03:22:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.32 Mbit/s

95th percentile per-packet one-way delay: 98.833 ms

Loss rate: 0.73%

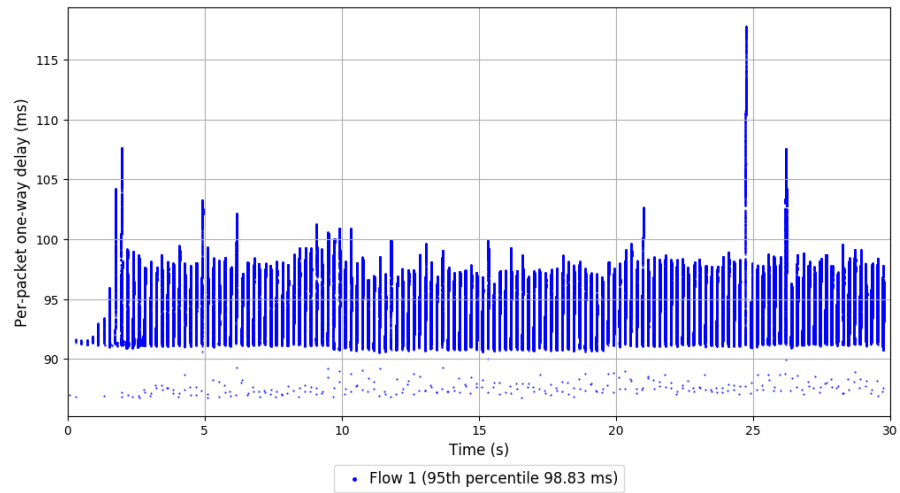
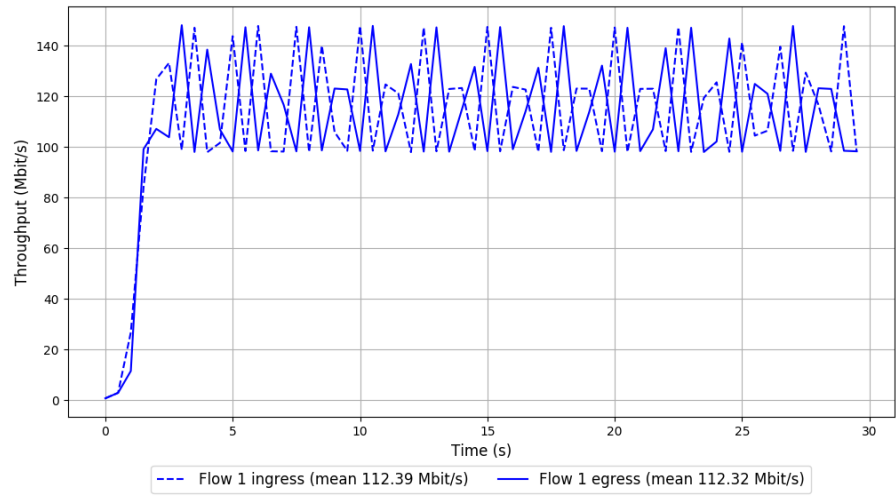
-- Flow 1:

Average throughput: 112.32 Mbit/s

95th percentile per-packet one-way delay: 98.833 ms

Loss rate: 0.73%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-15 23:34:56

End at: 2018-02-15 23:35:26

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.39 Mbit/s

95th percentile per-packet one-way delay: 93.546 ms

Loss rate: 0.36%

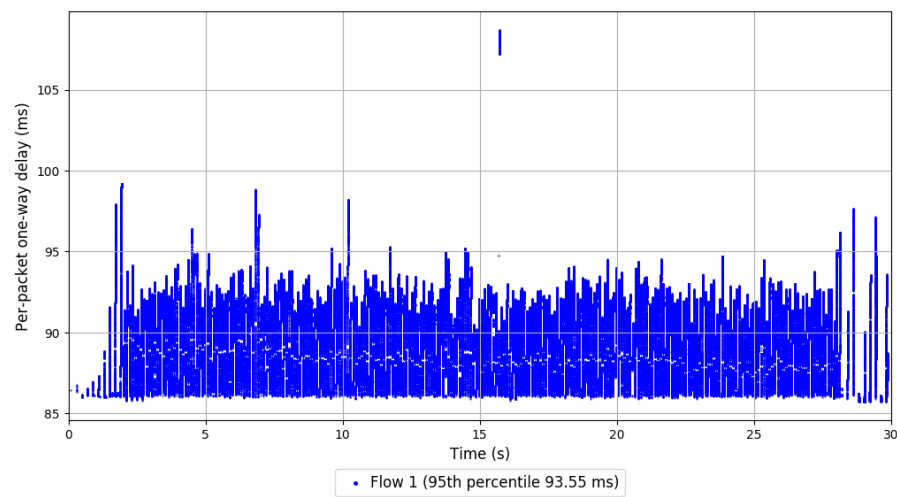
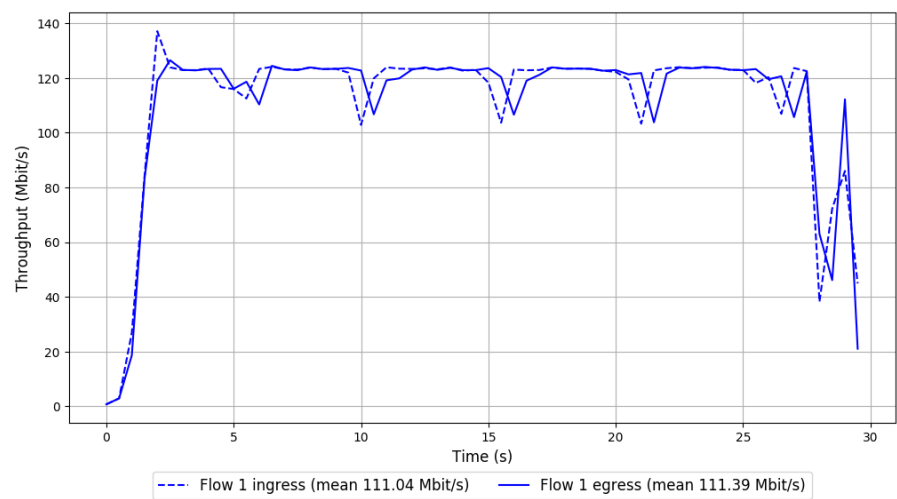
-- Flow 1:

Average throughput: 111.39 Mbit/s

95th percentile per-packet one-way delay: 93.546 ms

Loss rate: 0.36%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-15 23:50:30

End at: 2018-02-15 23:51:00

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 119.736 ms

Loss rate: 1.09%

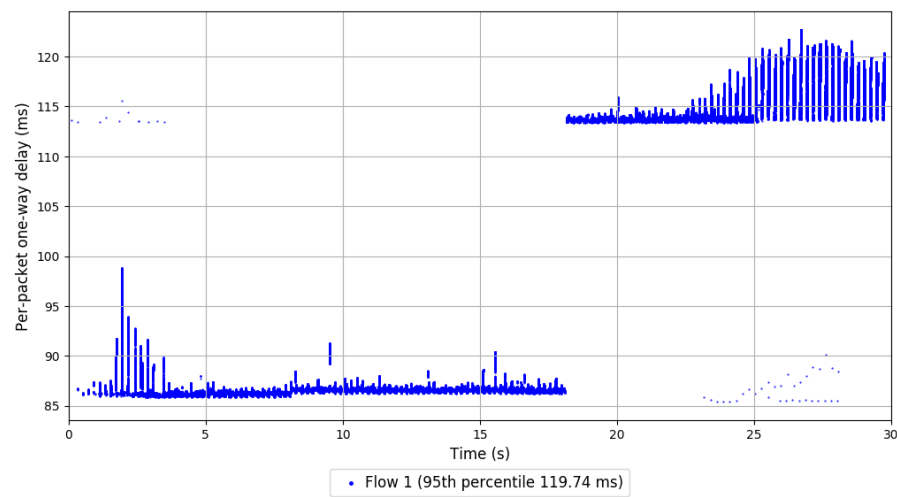
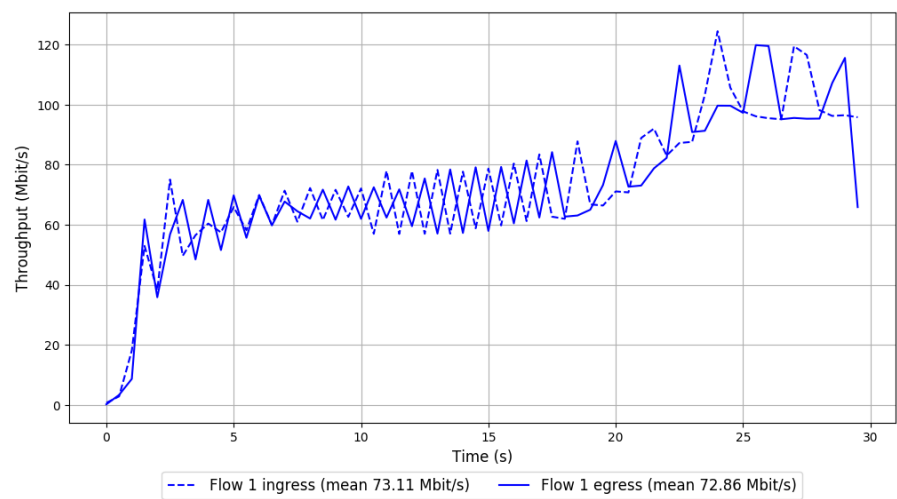
-- Flow 1:

Average throughput: 72.86 Mbit/s

95th percentile per-packet one-way delay: 119.736 ms

Loss rate: 1.09%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 00:05:43

End at: 2018-02-16 00:06:14

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.40 Mbit/s

95th percentile per-packet one-way delay: 114.492 ms

Loss rate: 1.19%

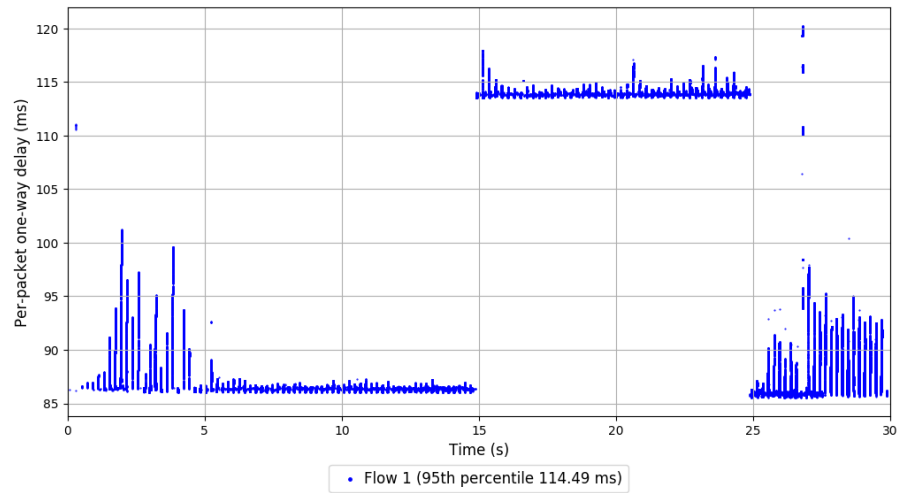
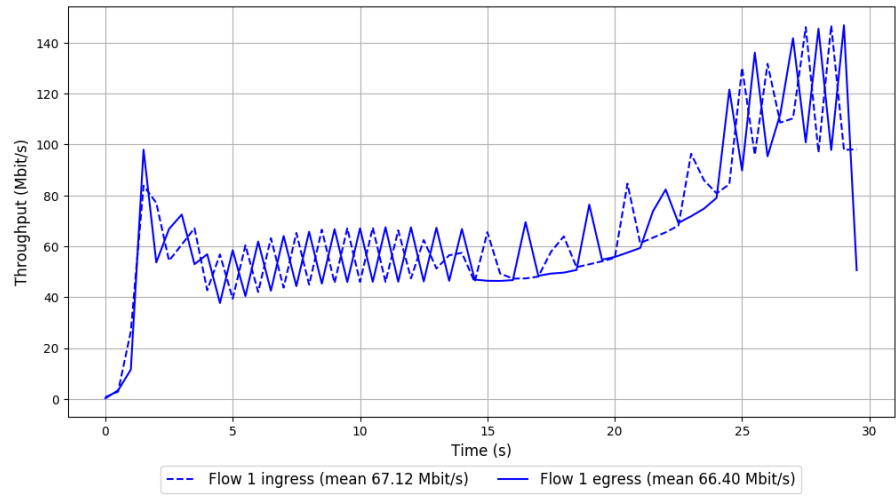
-- Flow 1:

Average throughput: 66.40 Mbit/s

95th percentile per-packet one-way delay: 114.492 ms

Loss rate: 1.19%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 00:21:14

End at: 2018-02-16 00:21:44

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 92.434 ms

Loss rate: 0.53%

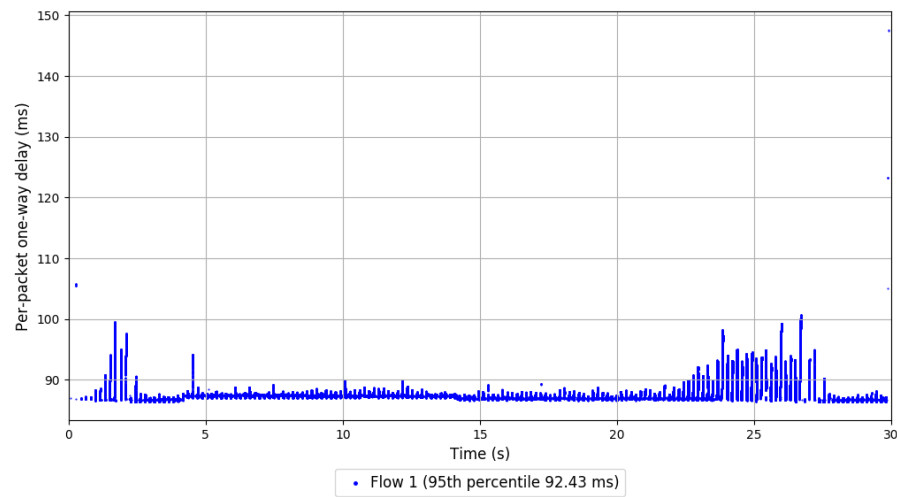
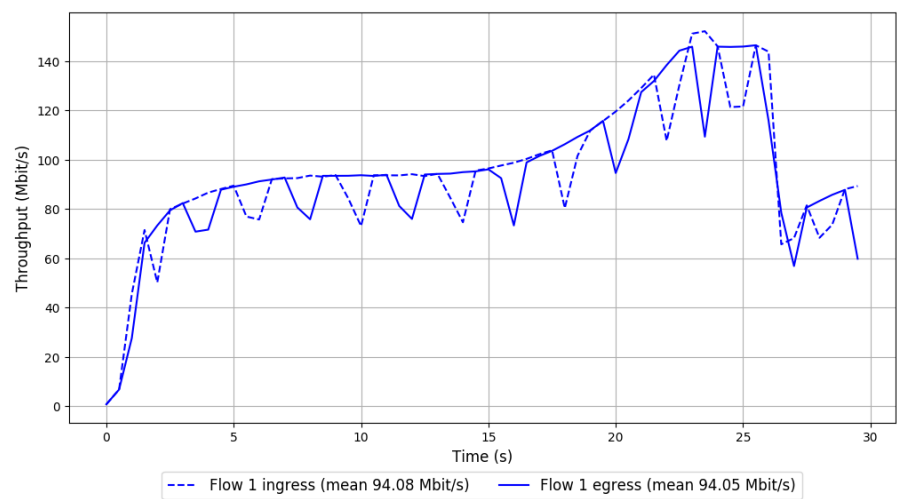
-- Flow 1:

Average throughput: 94.05 Mbit/s

95th percentile per-packet one-way delay: 92.434 ms

Loss rate: 0.53%

Run 10: Report of TCP Cubic — Data Link

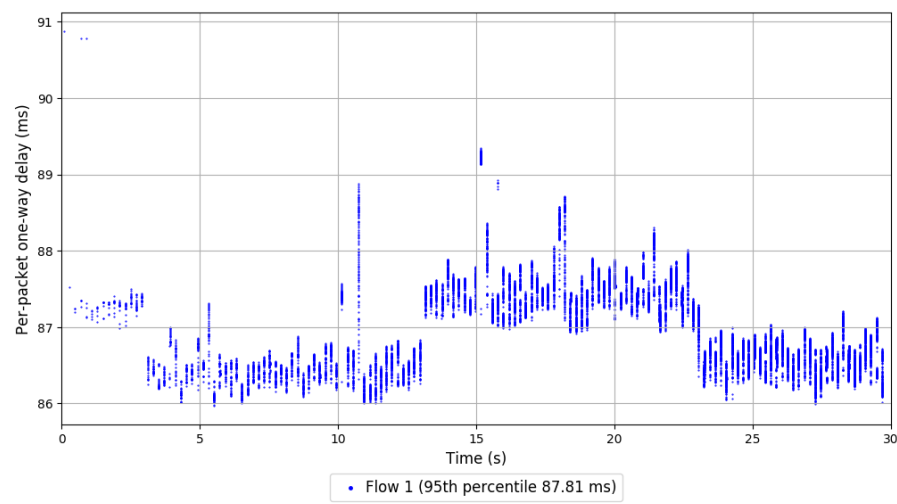
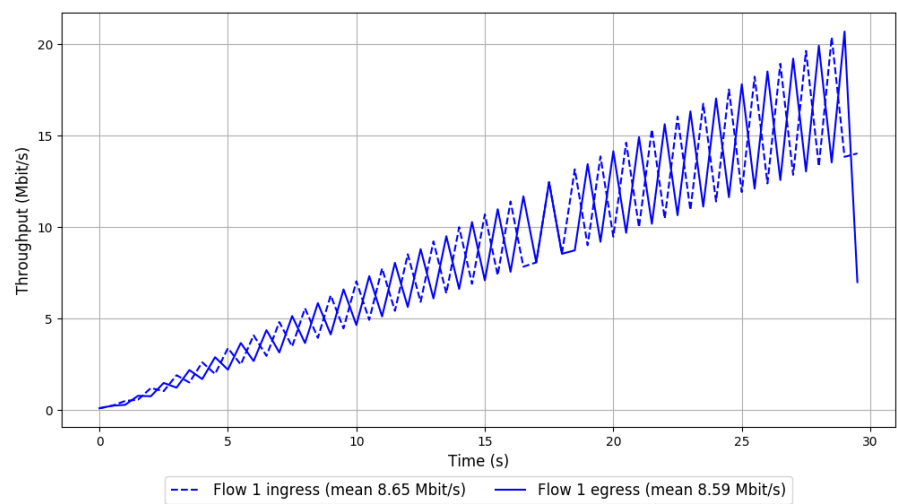


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-15 22:05:05
End at: 2018-02-15 22:05:35

# Below is generated by plot.py at 2018-02-16 03:22:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 87.813 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 87.813 ms
Loss rate: 1.37%
```


Run 1: Report of LEDBAT — Data Link

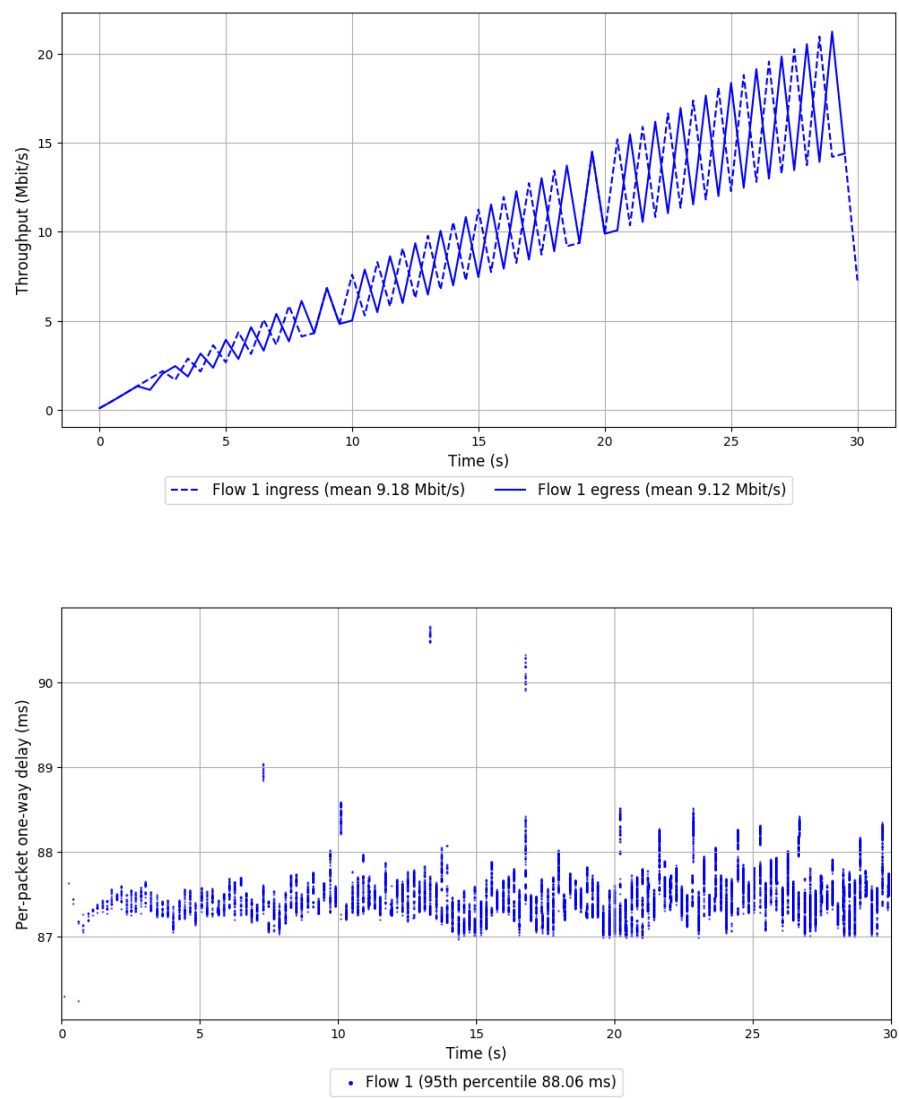


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-15 22:20:42
End at: 2018-02-15 22:21:12

# Below is generated by plot.py at 2018-02-16 03:22:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 88.061 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 88.061 ms
Loss rate: 1.32%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-15 22:36:37

End at: 2018-02-15 22:37:07

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 88.078 ms

Loss rate: 1.28%

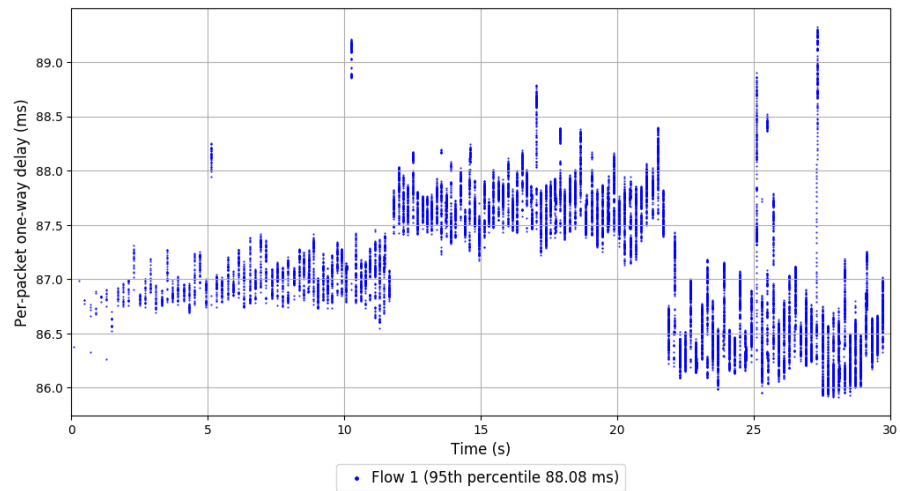
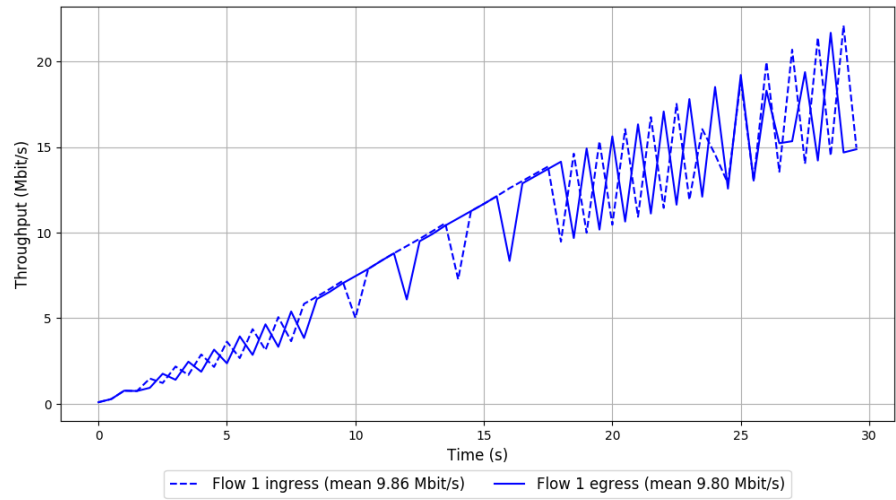
-- Flow 1:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 88.078 ms

Loss rate: 1.28%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-15 22:51:55

End at: 2018-02-15 22:52:25

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 87.432 ms

Loss rate: 1.47%

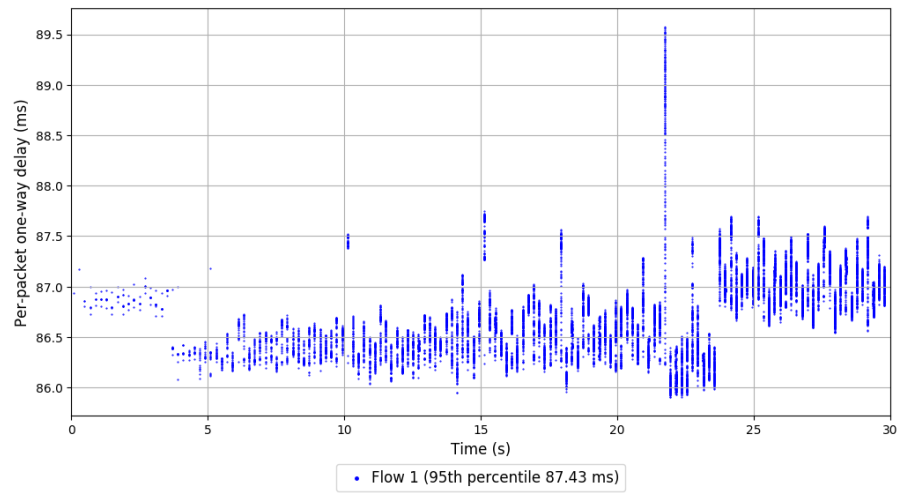
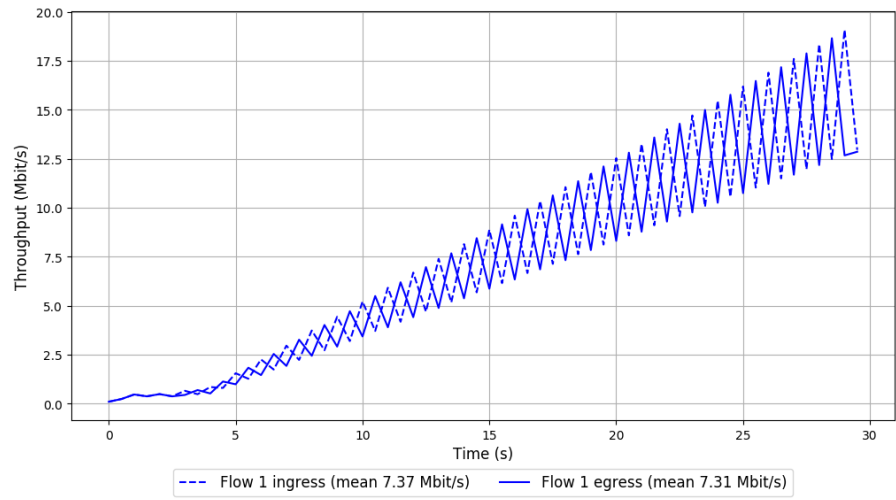
-- Flow 1:

Average throughput: 7.31 Mbit/s

95th percentile per-packet one-way delay: 87.432 ms

Loss rate: 1.47%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-15 23:07:42

End at: 2018-02-15 23:08:12

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 88.073 ms

Loss rate: 1.35%

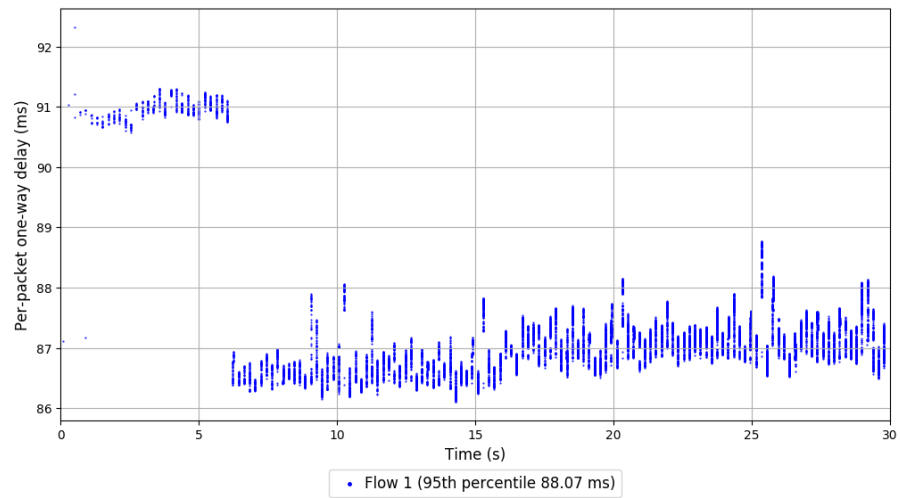
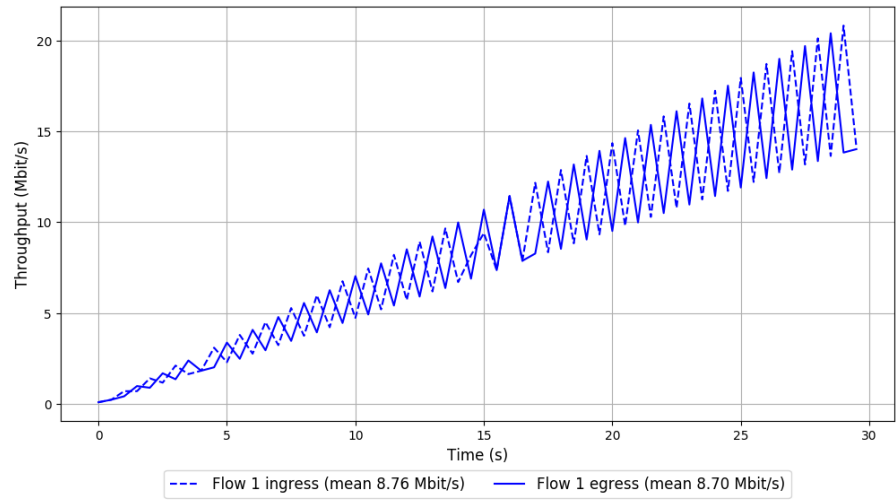
-- Flow 1:

Average throughput: 8.70 Mbit/s

95th percentile per-packet one-way delay: 88.073 ms

Loss rate: 1.35%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-15 23:23:22

End at: 2018-02-15 23:23:52

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.93 Mbit/s

95th percentile per-packet one-way delay: 87.055 ms

Loss rate: 1.20%

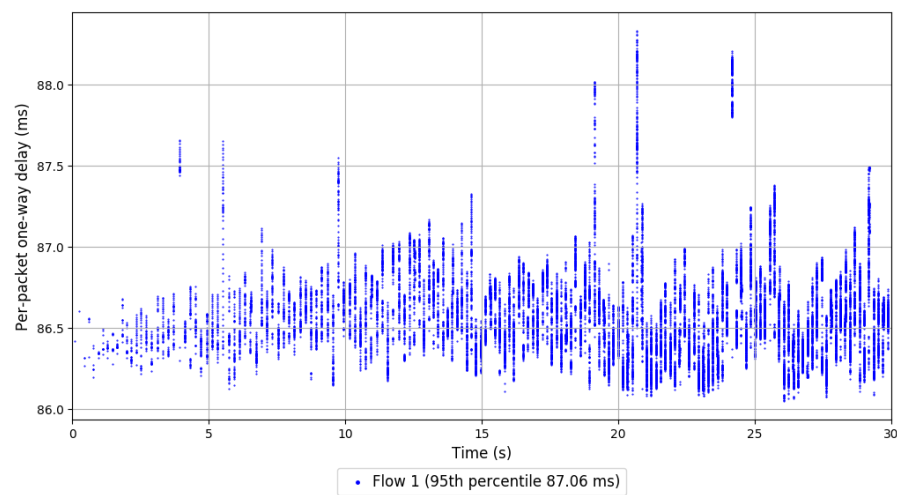
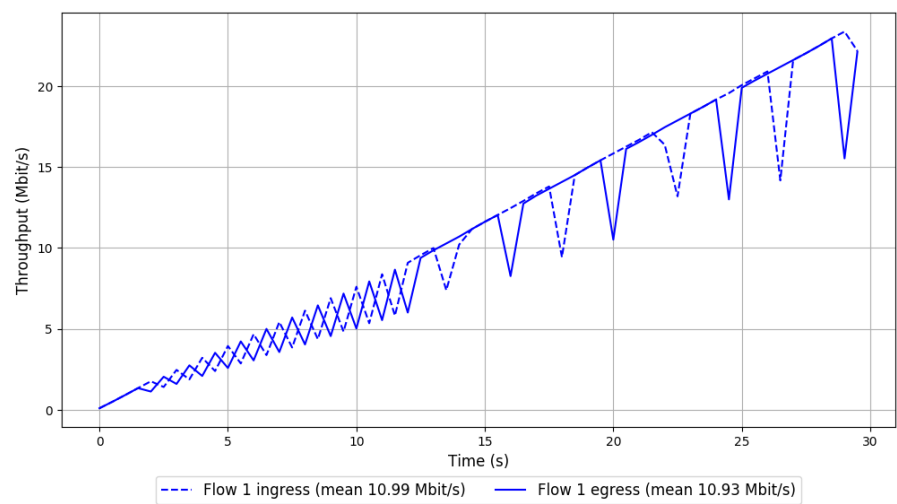
-- Flow 1:

Average throughput: 10.93 Mbit/s

95th percentile per-packet one-way delay: 87.055 ms

Loss rate: 1.20%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-15 23:39:05

End at: 2018-02-15 23:39:35

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 87.590 ms

Loss rate: 1.35%

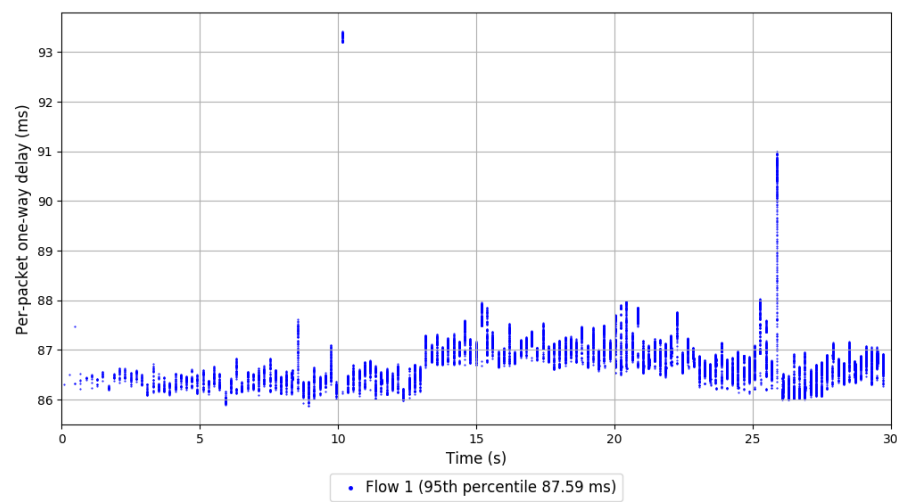
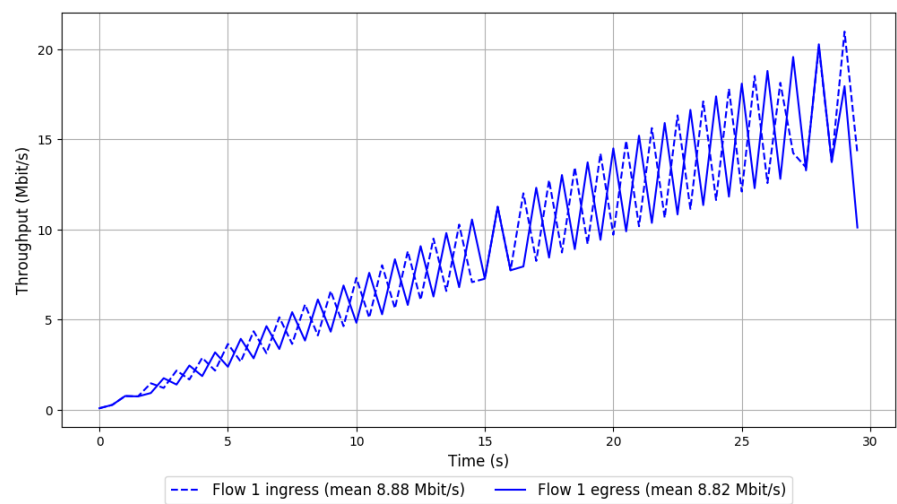
-- Flow 1:

Average throughput: 8.82 Mbit/s

95th percentile per-packet one-way delay: 87.590 ms

Loss rate: 1.35%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-15 23:54:37

End at: 2018-02-15 23:55:07

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 87.206 ms

Loss rate: 1.28%

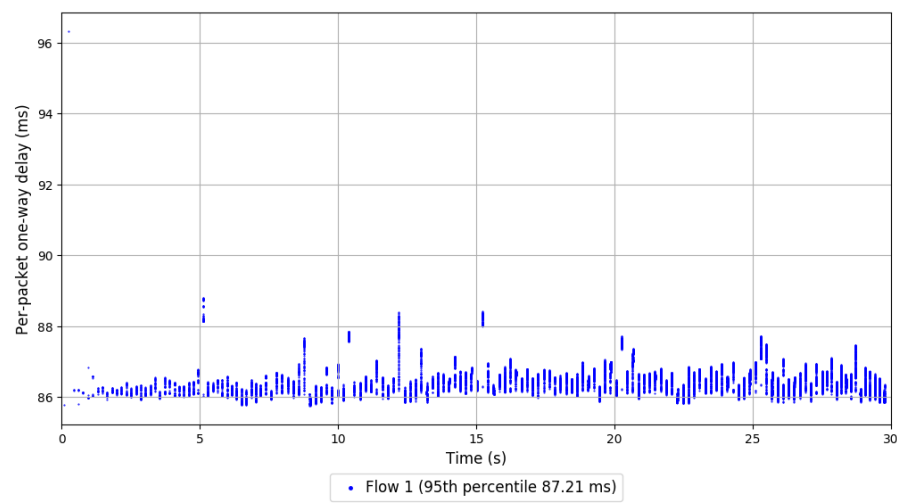
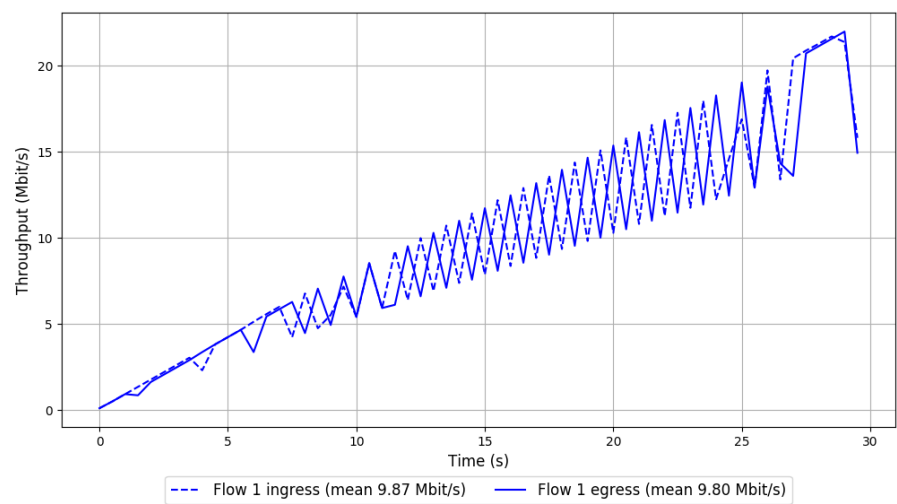
-- Flow 1:

Average throughput: 9.80 Mbit/s

95th percentile per-packet one-way delay: 87.206 ms

Loss rate: 1.28%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-16 00:09:47

End at: 2018-02-16 00:10:17

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 114.480 ms

Loss rate: 1.20%

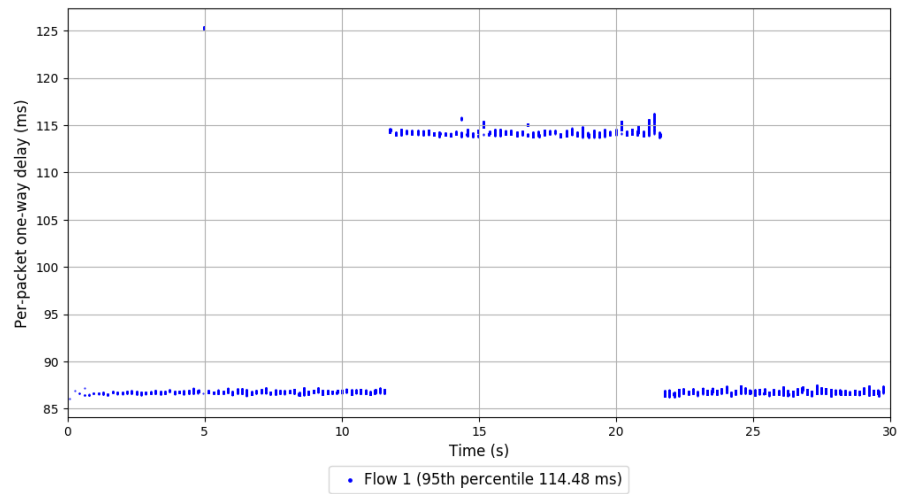
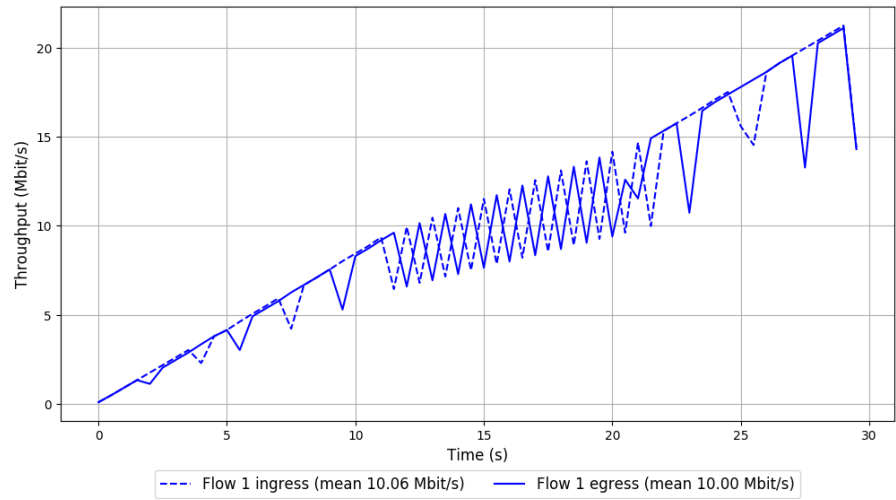
-- Flow 1:

Average throughput: 10.00 Mbit/s

95th percentile per-packet one-way delay: 114.480 ms

Loss rate: 1.20%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 00:25:18

End at: 2018-02-16 00:25:48

Below is generated by plot.py at 2018-02-16 03:22:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 87.607 ms

Loss rate: 1.22%

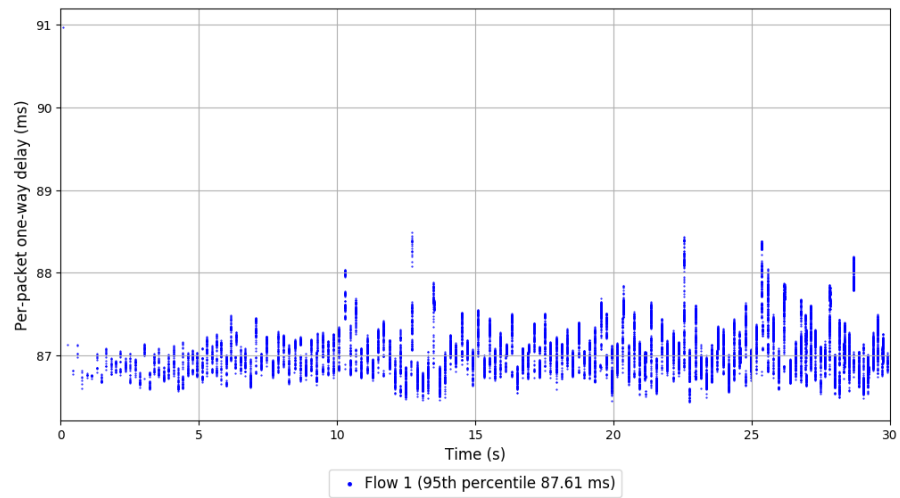
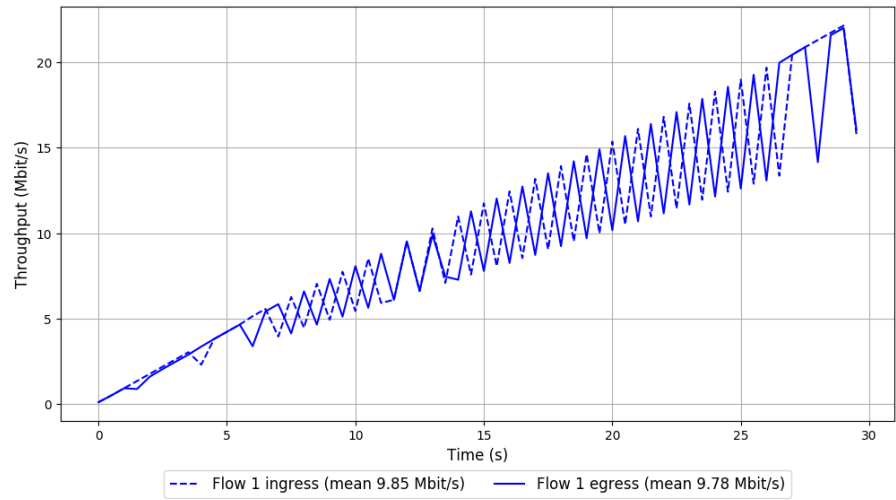
-- Flow 1:

Average throughput: 9.78 Mbit/s

95th percentile per-packet one-way delay: 87.607 ms

Loss rate: 1.22%

Run 10: Report of LEDBAT — Data Link

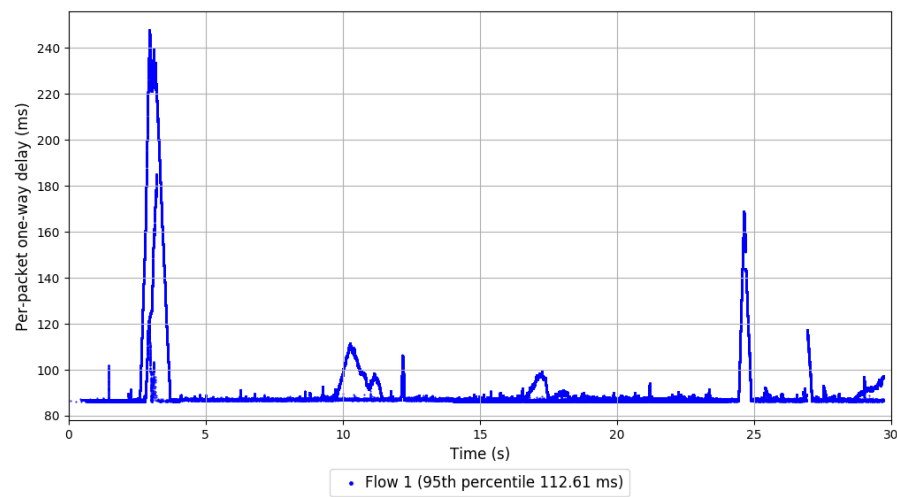
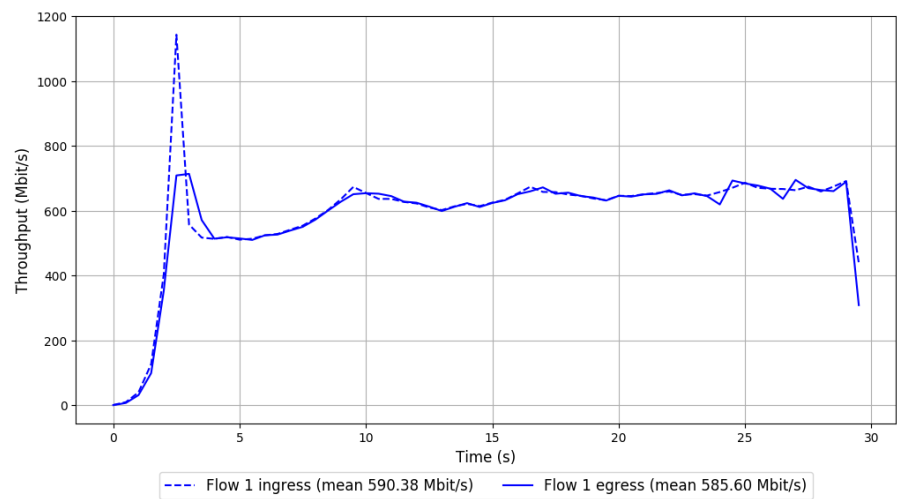


```
Run 1: Statistics of PCC

Start at: 2018-02-15 22:09:54
End at: 2018-02-15 22:10:24

# Below is generated by plot.py at 2018-02-16 03:32:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 585.60 Mbit/s
95th percentile per-packet one-way delay: 112.614 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 585.60 Mbit/s
95th percentile per-packet one-way delay: 112.614 ms
Loss rate: 1.40%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-15 22:25:34

End at: 2018-02-15 22:26:04

Below is generated by plot.py at 2018-02-16 03:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 591.39 Mbit/s

95th percentile per-packet one-way delay: 171.750 ms

Loss rate: 1.52%

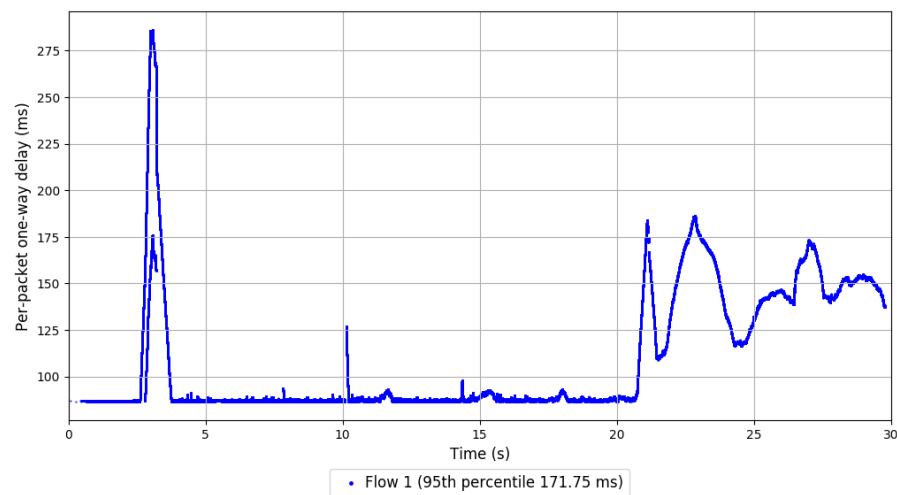
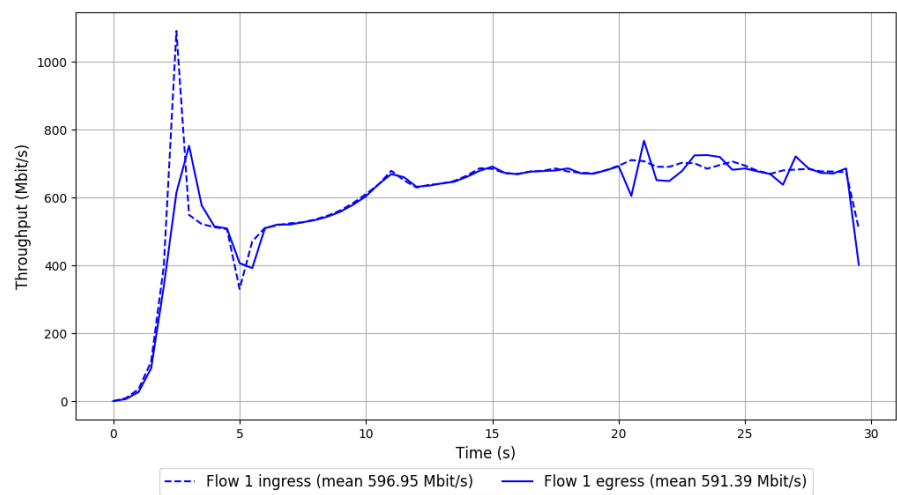
-- Flow 1:

Average throughput: 591.39 Mbit/s

95th percentile per-packet one-way delay: 171.750 ms

Loss rate: 1.52%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-15 22:41:23

End at: 2018-02-15 22:41:53

Below is generated by plot.py at 2018-02-16 03:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.14 Mbit/s

95th percentile per-packet one-way delay: 102.659 ms

Loss rate: 1.31%

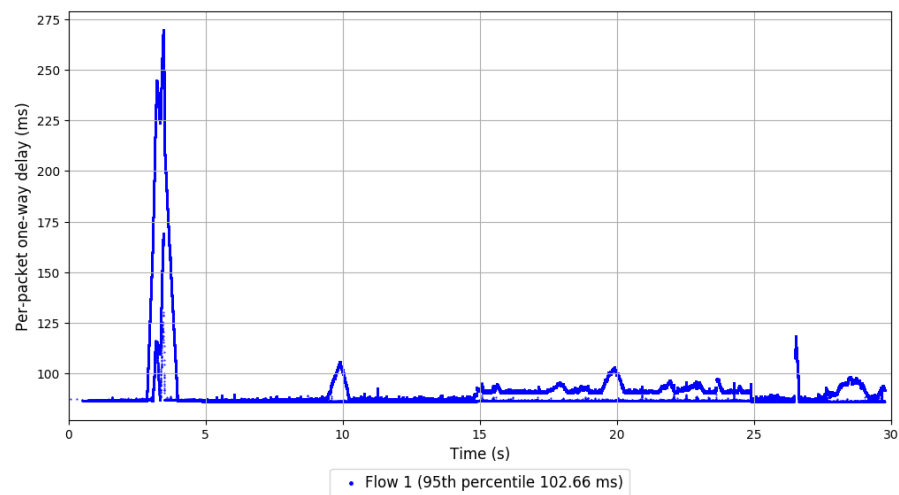
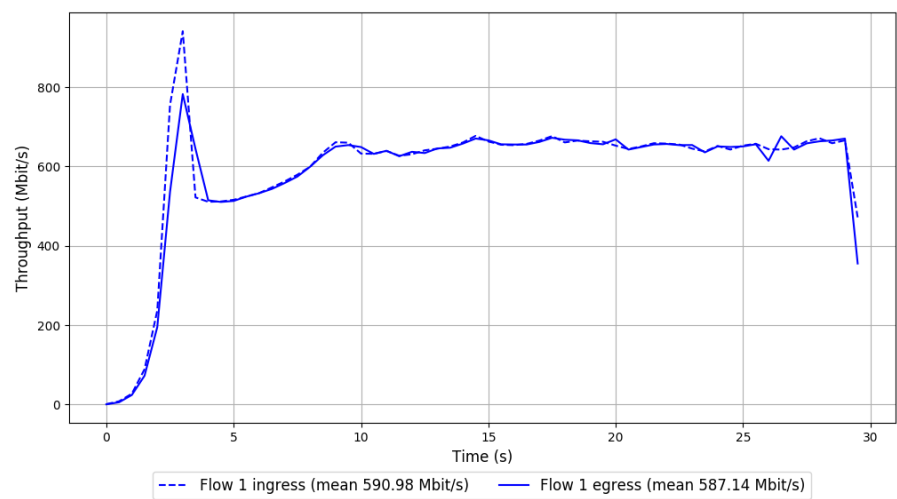
-- Flow 1:

Average throughput: 587.14 Mbit/s

95th percentile per-packet one-way delay: 102.659 ms

Loss rate: 1.31%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-15 22:56:47

End at: 2018-02-15 22:57:17

Below is generated by plot.py at 2018-02-16 03:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 583.18 Mbit/s

95th percentile per-packet one-way delay: 270.939 ms

Loss rate: 4.03%

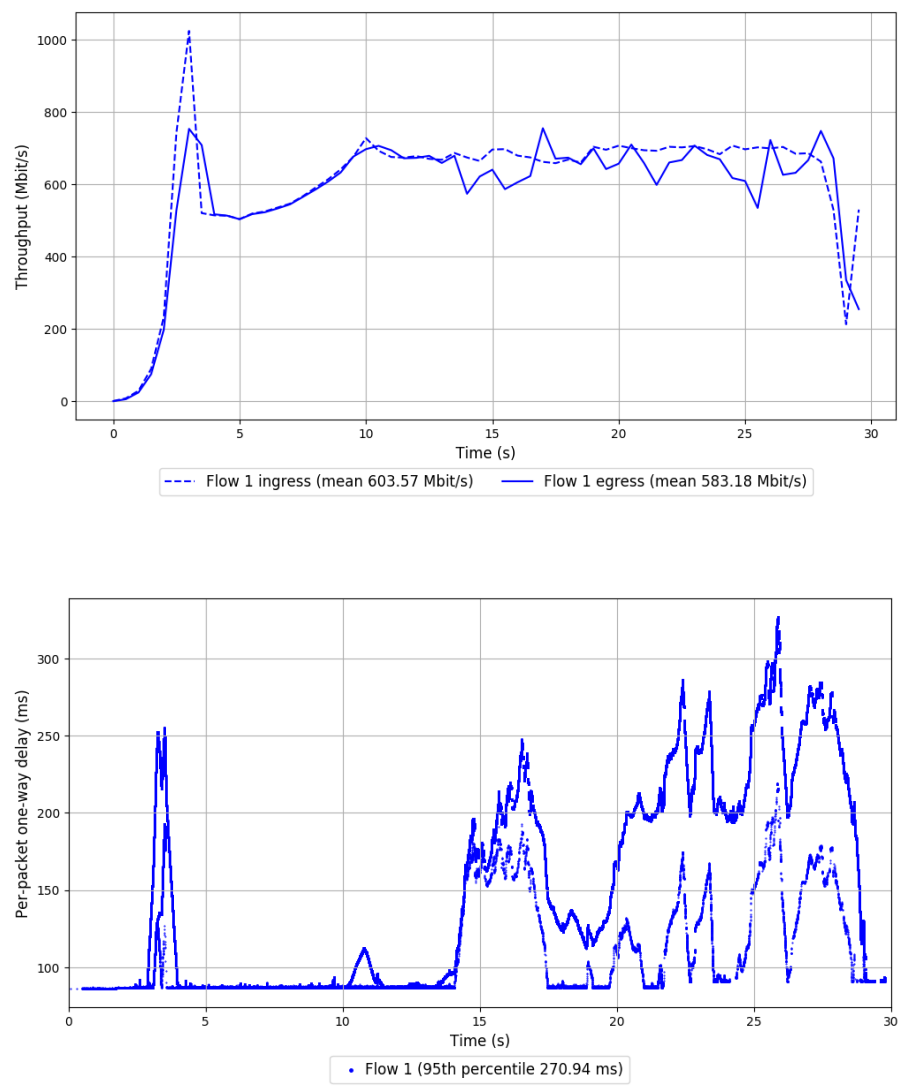
-- Flow 1:

Average throughput: 583.18 Mbit/s

95th percentile per-packet one-way delay: 270.939 ms

Loss rate: 4.03%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-15 23:12:29

End at: 2018-02-15 23:12:59

Below is generated by plot.py at 2018-02-16 03:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 589.56 Mbit/s

95th percentile per-packet one-way delay: 106.795 ms

Loss rate: 1.40%

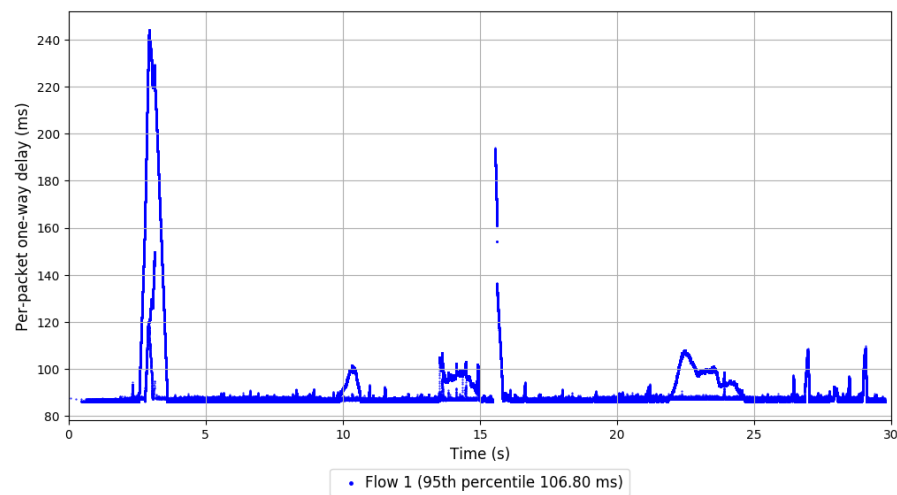
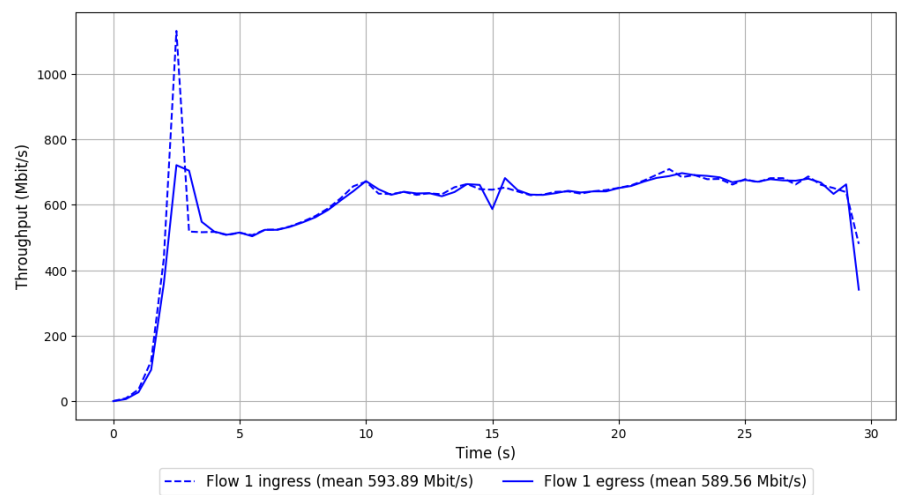
-- Flow 1:

Average throughput: 589.56 Mbit/s

95th percentile per-packet one-way delay: 106.795 ms

Loss rate: 1.40%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-15 23:28:24

End at: 2018-02-15 23:28:54

Below is generated by plot.py at 2018-02-16 03:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 587.21 Mbit/s

95th percentile per-packet one-way delay: 109.010 ms

Loss rate: 1.39%

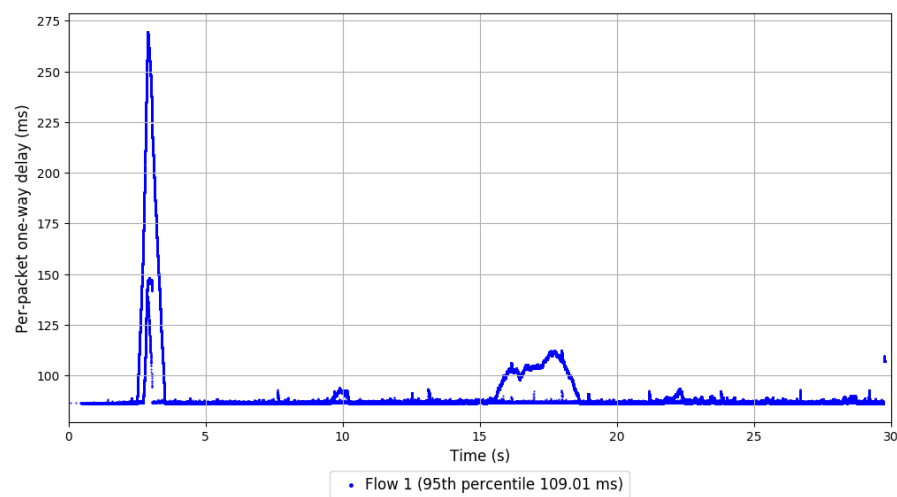
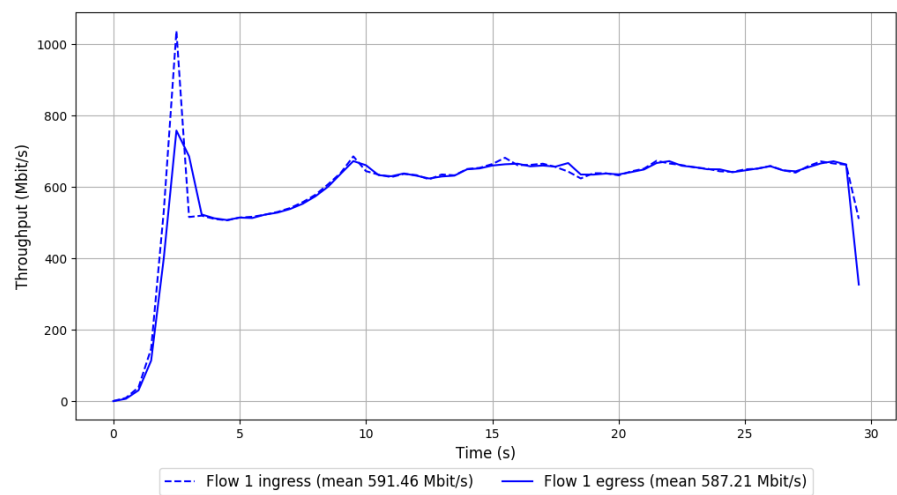
-- Flow 1:

Average throughput: 587.21 Mbit/s

95th percentile per-packet one-way delay: 109.010 ms

Loss rate: 1.39%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-15 23:44:00

End at: 2018-02-15 23:44:30

Below is generated by plot.py at 2018-02-16 03:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.02 Mbit/s

95th percentile per-packet one-way delay: 139.690 ms

Loss rate: 1.71%

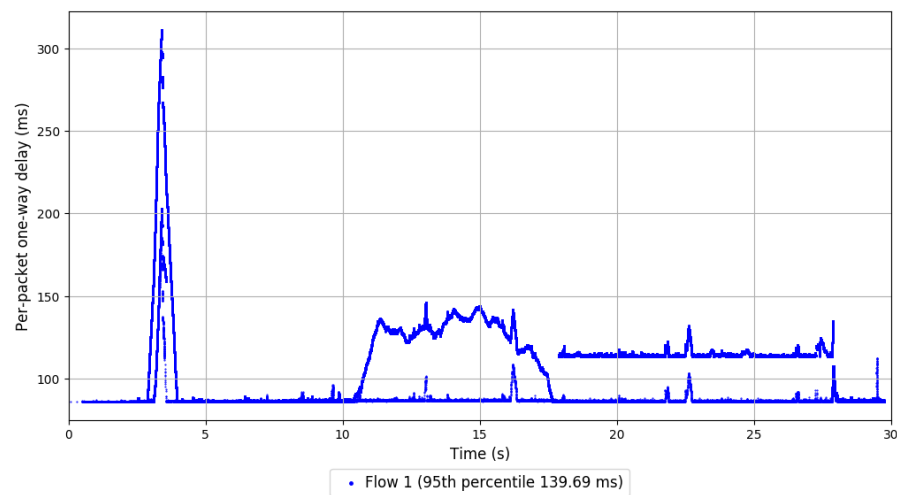
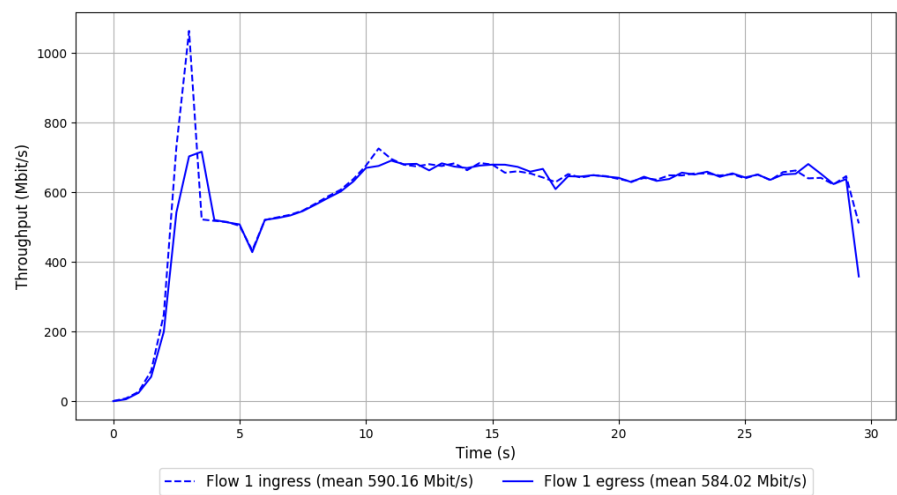
-- Flow 1:

Average throughput: 584.02 Mbit/s

95th percentile per-packet one-way delay: 139.690 ms

Loss rate: 1.71%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-15 23:59:22

End at: 2018-02-15 23:59:52

Below is generated by plot.py at 2018-02-16 03:33:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.08 Mbit/s

95th percentile per-packet one-way delay: 116.127 ms

Loss rate: 1.95%

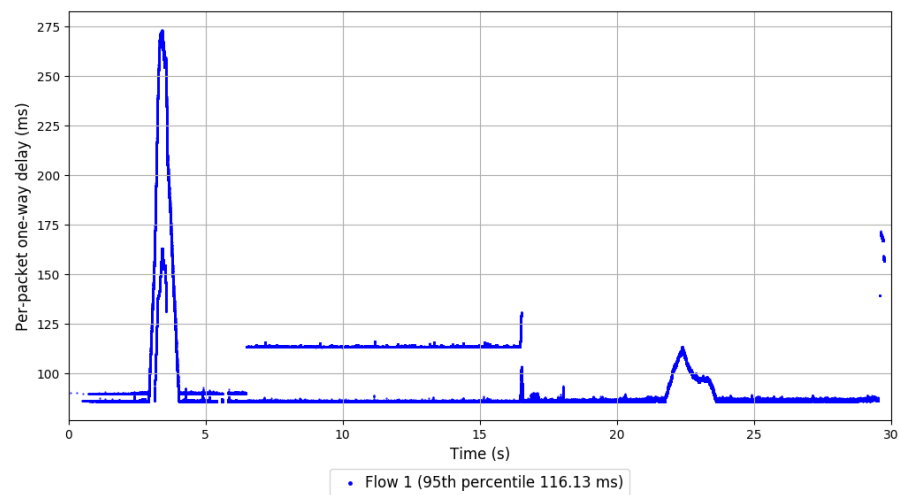
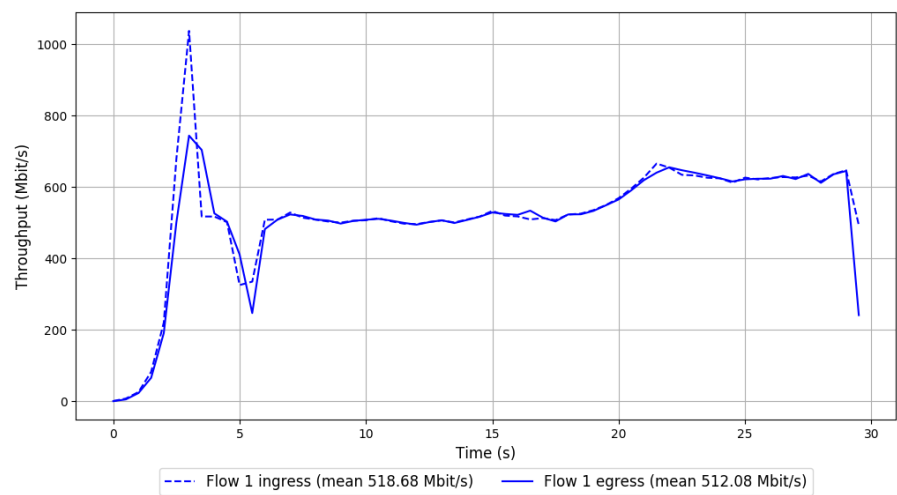
-- Flow 1:

Average throughput: 512.08 Mbit/s

95th percentile per-packet one-way delay: 116.127 ms

Loss rate: 1.95%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-16 00:14:45

End at: 2018-02-16 00:15:15

Below is generated by plot.py at 2018-02-16 03:42:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.22 Mbit/s

95th percentile per-packet one-way delay: 127.731 ms

Loss rate: 1.66%

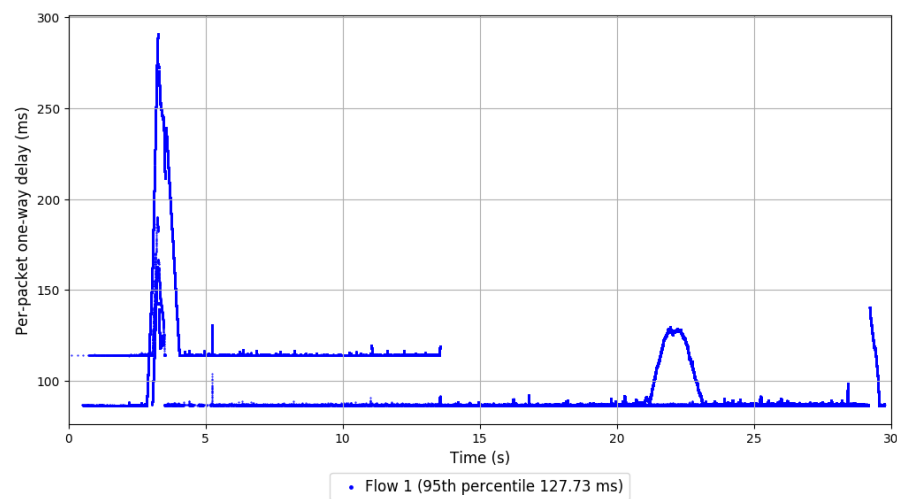
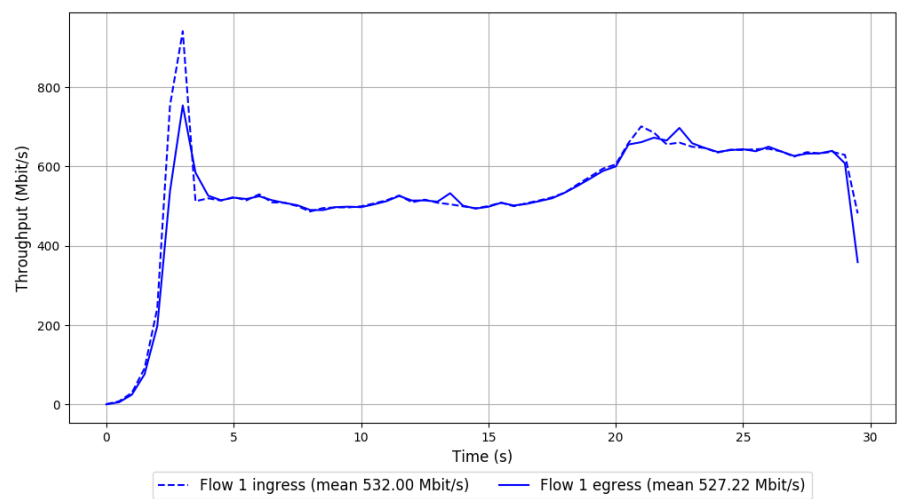
-- Flow 1:

Average throughput: 527.22 Mbit/s

95th percentile per-packet one-way delay: 127.731 ms

Loss rate: 1.66%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 00:30:09

End at: 2018-02-16 00:30:39

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.39 Mbit/s

95th percentile per-packet one-way delay: 114.685 ms

Loss rate: 1.43%

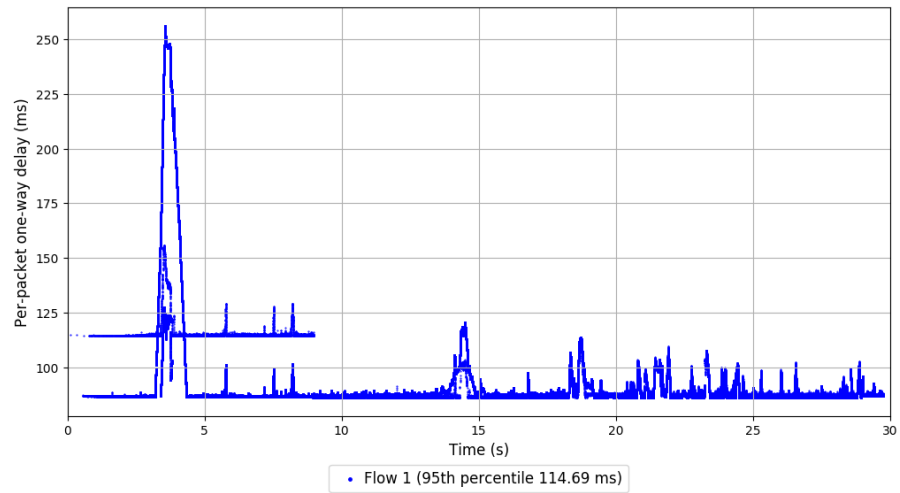
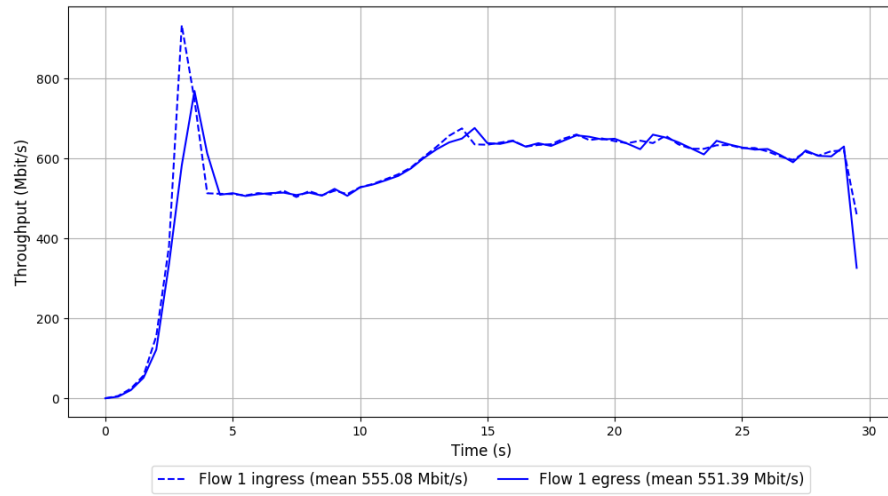
-- Flow 1:

Average throughput: 551.39 Mbit/s

95th percentile per-packet one-way delay: 114.685 ms

Loss rate: 1.43%

Run 10: Report of PCC — Data Link

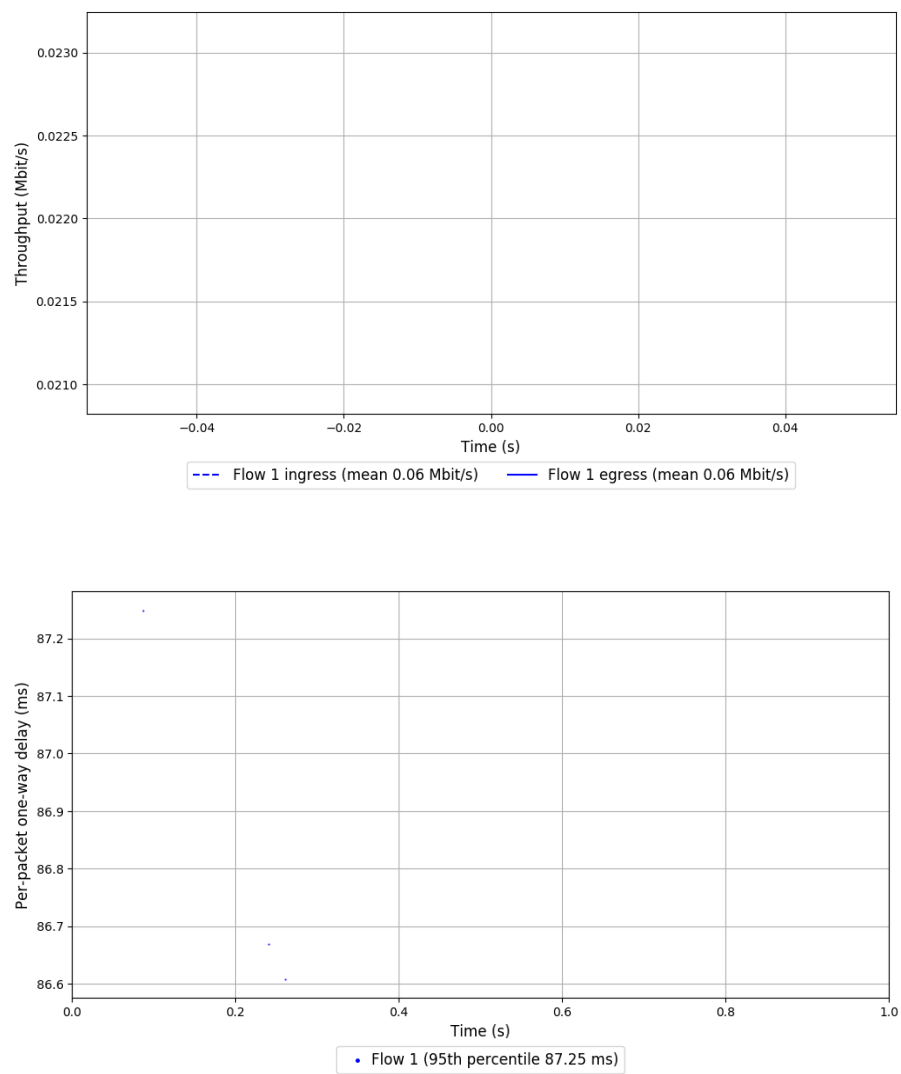


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-15 22:10:56

End at: 2018-02-15 22:11:26

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-15 22:26:37

End at: 2018-02-15 22:27:07

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 90.691 ms

Loss rate: 0.93%

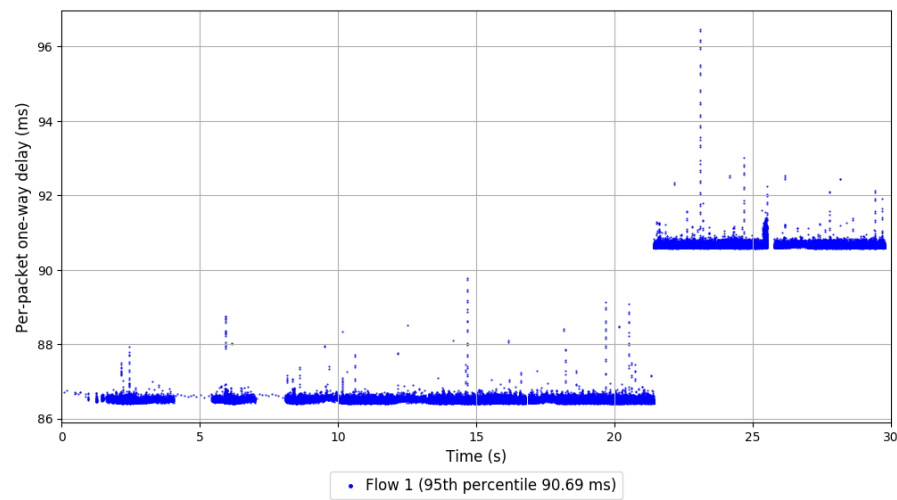
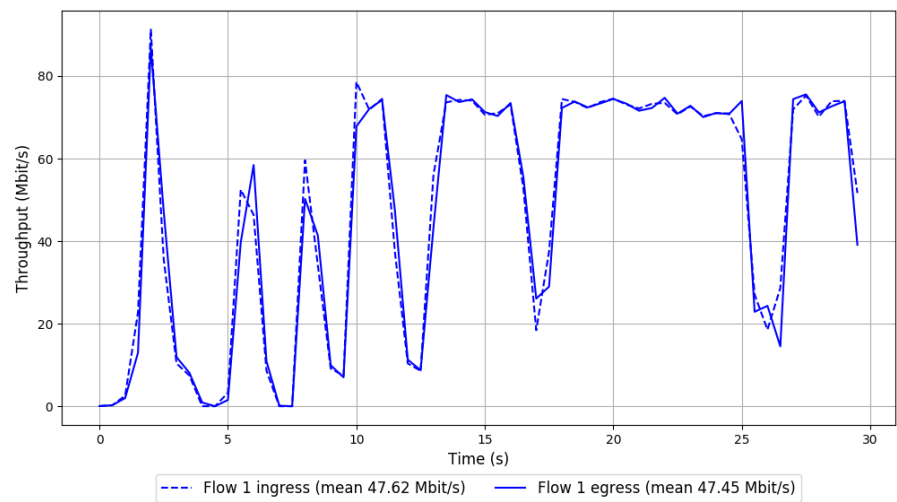
-- Flow 1:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 90.691 ms

Loss rate: 0.93%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-15 22:42:26

End at: 2018-02-15 22:42:56

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.03 Mbit/s

95th percentile per-packet one-way delay: 87.166 ms

Loss rate: 1.06%

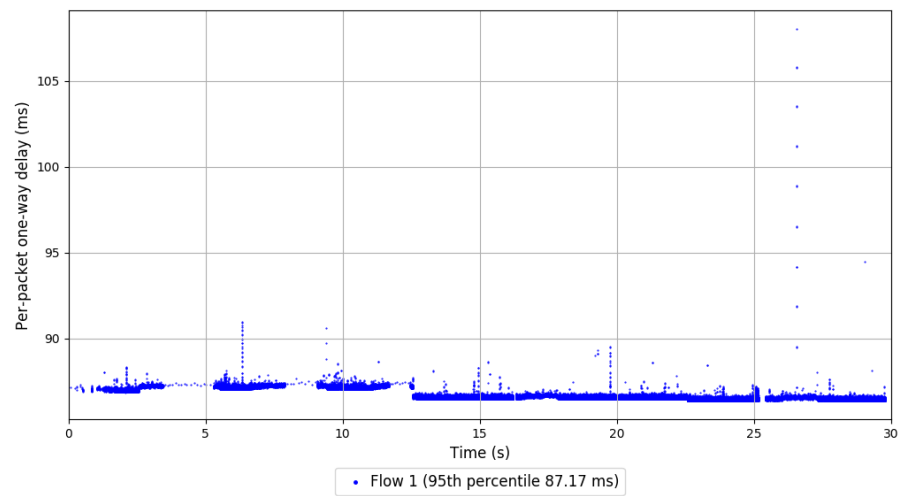
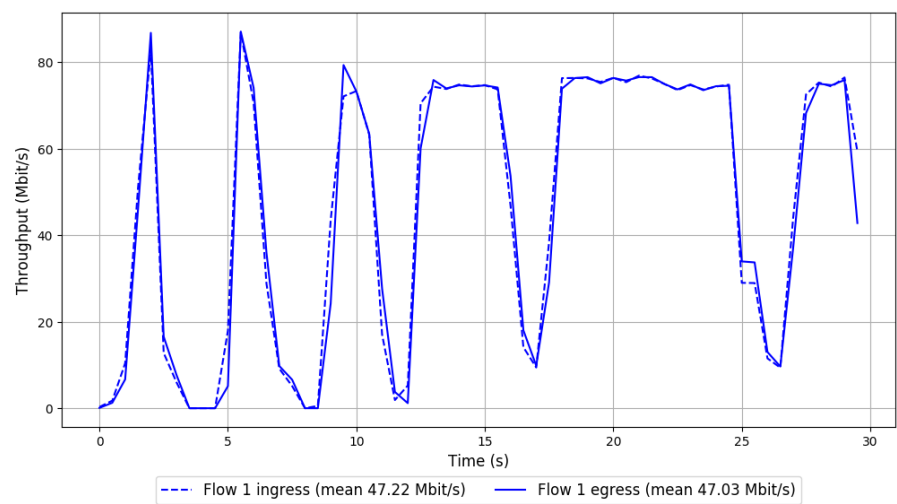
-- Flow 1:

Average throughput: 47.03 Mbit/s

95th percentile per-packet one-way delay: 87.166 ms

Loss rate: 1.06%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-15 22:57:49

End at: 2018-02-15 22:58:19

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 90.680 ms

Loss rate: 1.12%

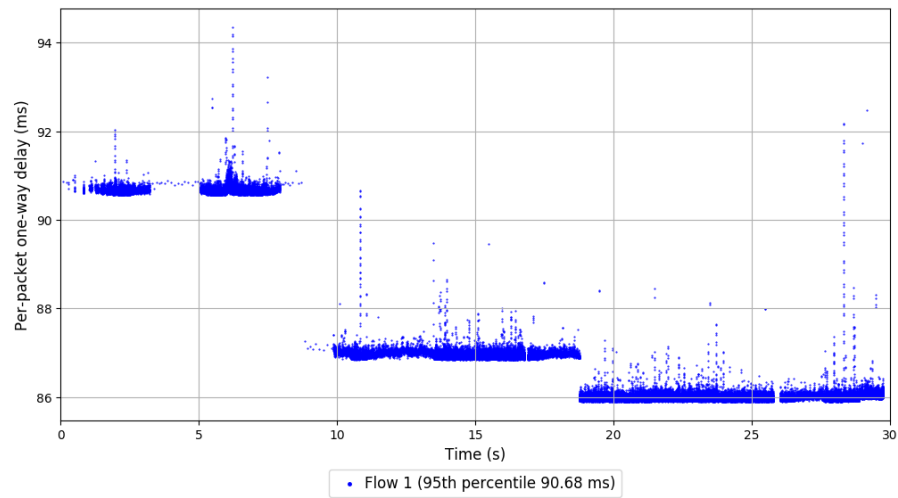
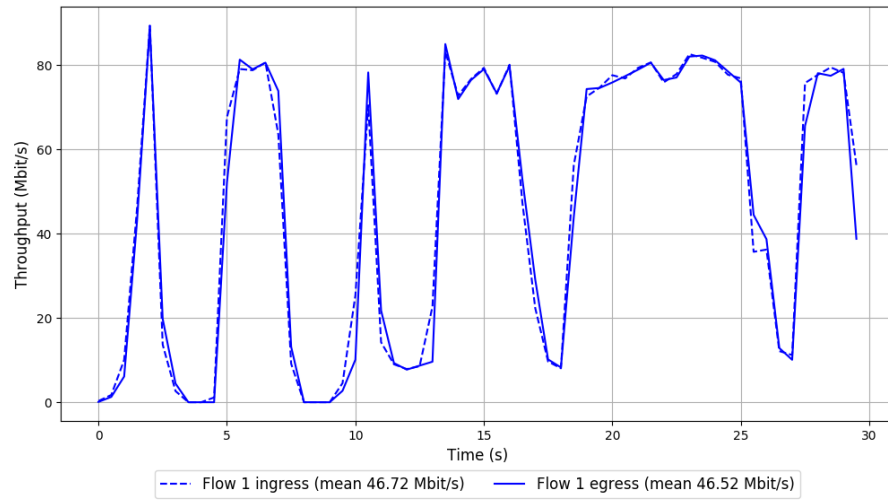
-- Flow 1:

Average throughput: 46.52 Mbit/s

95th percentile per-packet one-way delay: 90.680 ms

Loss rate: 1.12%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-15 23:13:33

End at: 2018-02-15 23:14:03

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.65 Mbit/s

95th percentile per-packet one-way delay: 90.722 ms

Loss rate: 0.84%

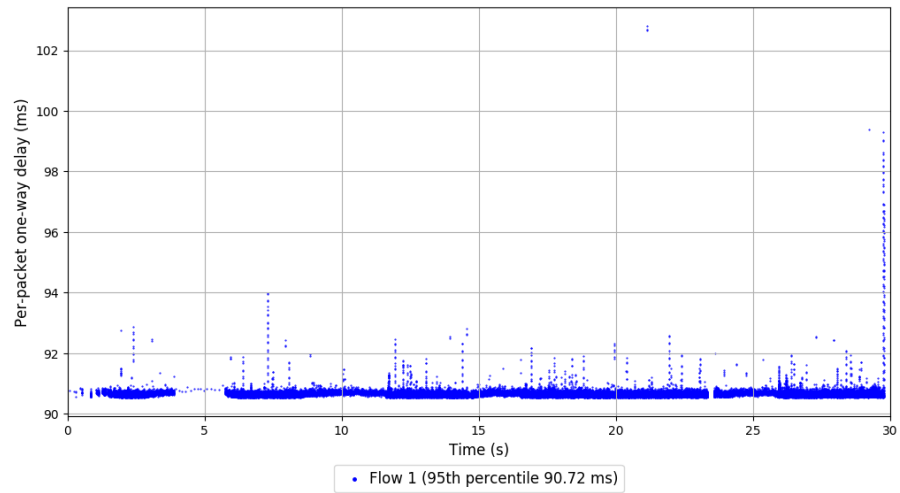
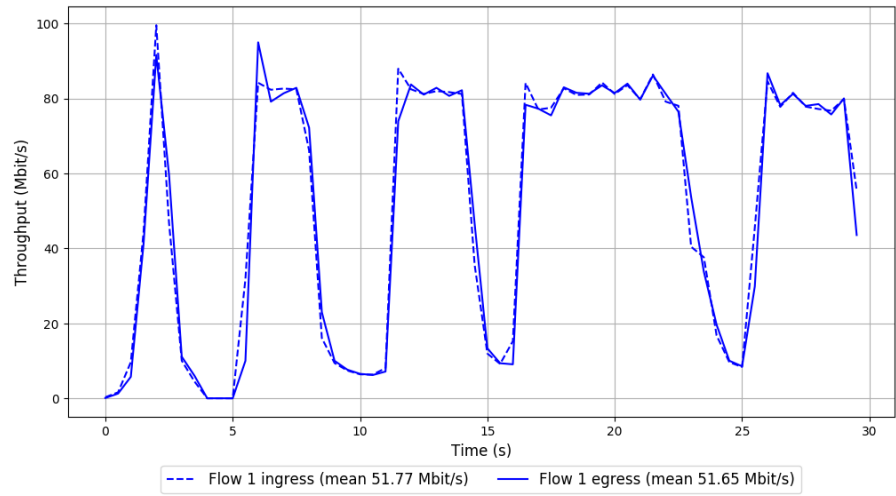
-- Flow 1:

Average throughput: 51.65 Mbit/s

95th percentile per-packet one-way delay: 90.722 ms

Loss rate: 0.84%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-15 23:29:27

End at: 2018-02-15 23:29:57

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 86.581 ms

Loss rate: 1.00%

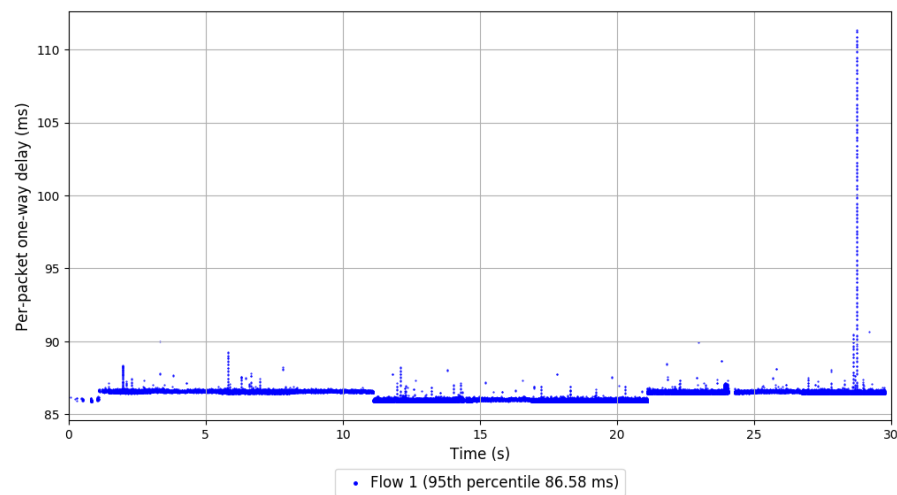
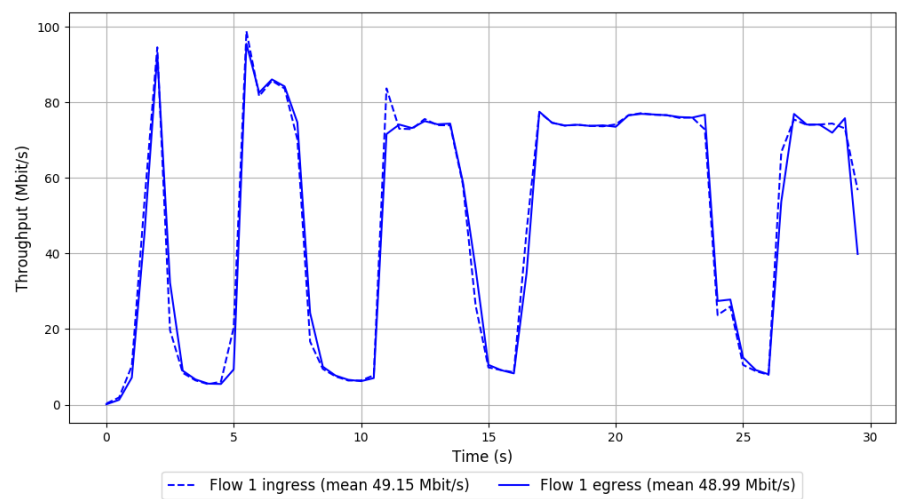
-- Flow 1:

Average throughput: 48.99 Mbit/s

95th percentile per-packet one-way delay: 86.581 ms

Loss rate: 1.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-15 23:45:02

End at: 2018-02-15 23:45:32

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.19 Mbit/s

95th percentile per-packet one-way delay: 90.084 ms

Loss rate: 1.00%

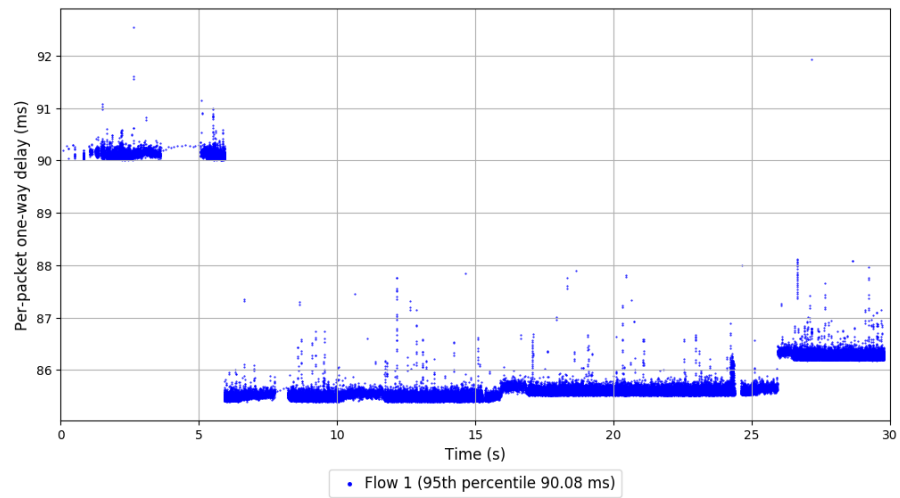
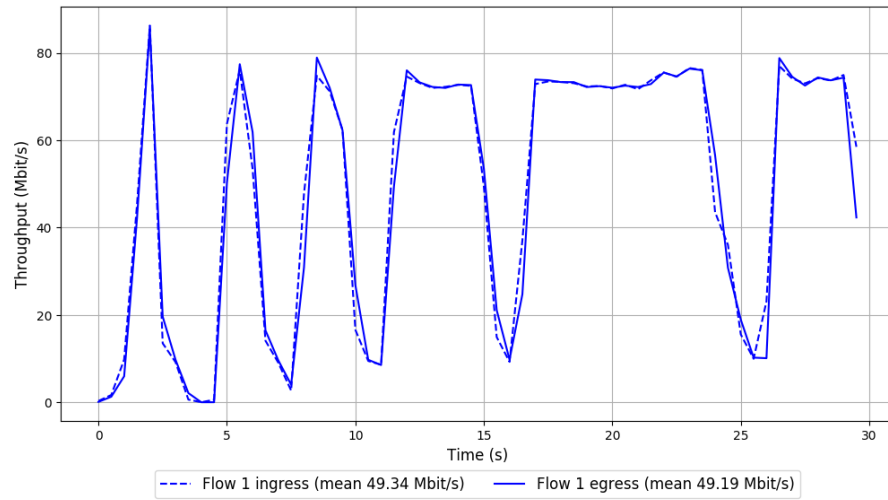
-- Flow 1:

Average throughput: 49.19 Mbit/s

95th percentile per-packet one-way delay: 90.084 ms

Loss rate: 1.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 00:00:22

End at: 2018-02-16 00:00:52

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 89.982 ms

Loss rate: 1.03%

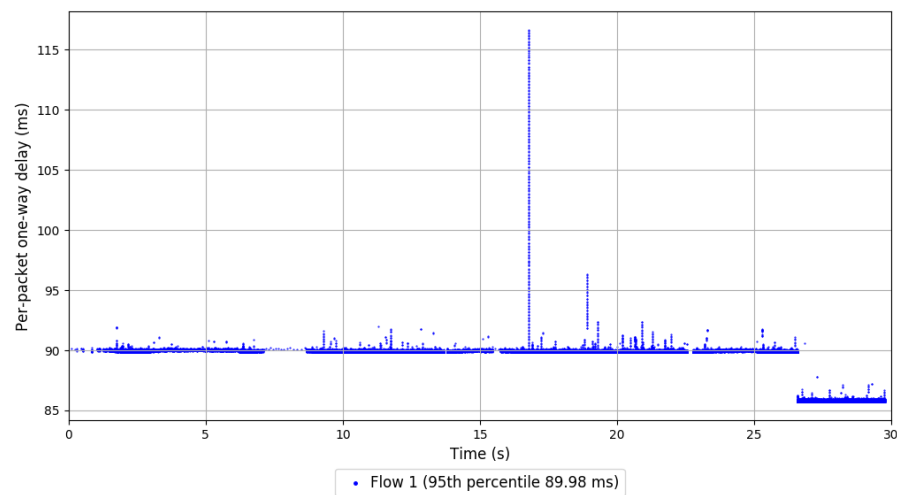
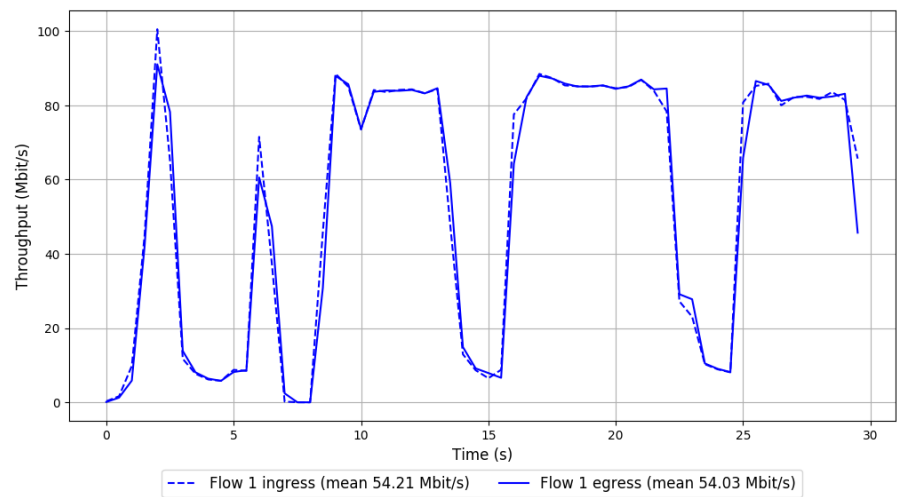
-- Flow 1:

Average throughput: 54.03 Mbit/s

95th percentile per-packet one-way delay: 89.982 ms

Loss rate: 1.03%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-16 00:15:44

End at: 2018-02-16 00:16:15

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 86.555 ms

Loss rate: 0.91%

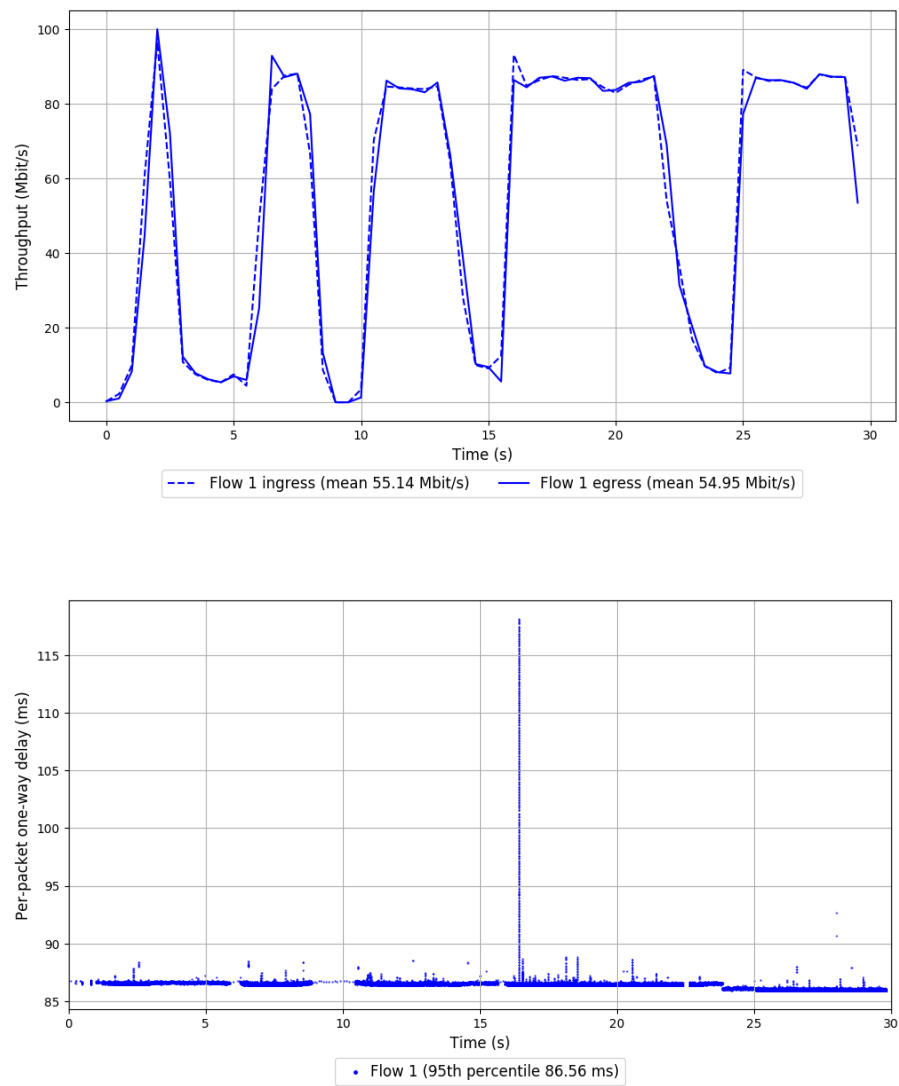
-- Flow 1:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 86.555 ms

Loss rate: 0.91%

Run 9: Report of QUIC Cubic — Data Link

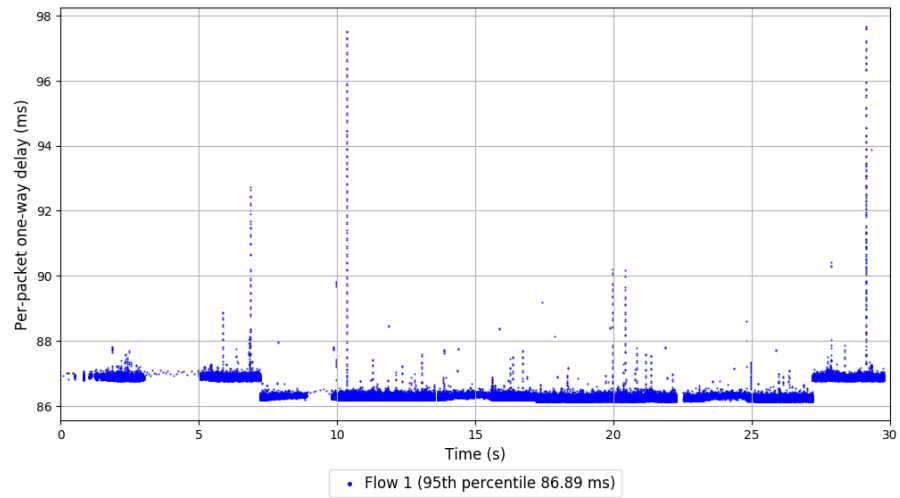
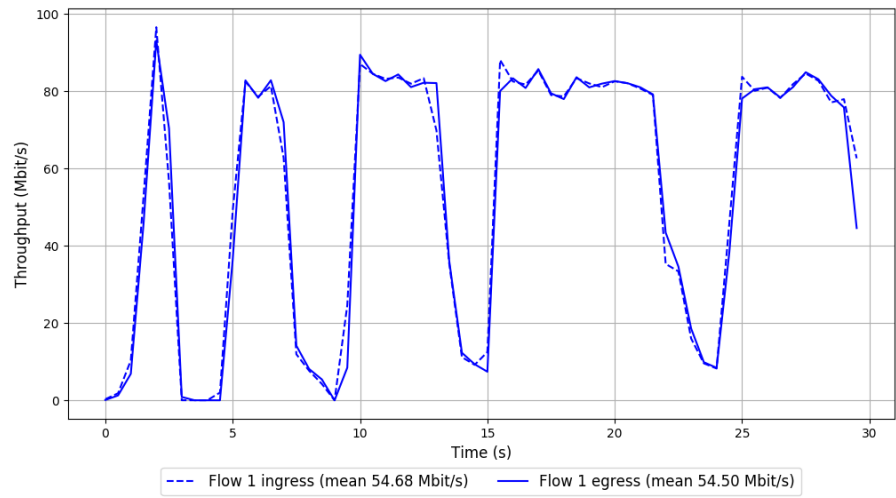


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 00:31:11
End at: 2018-02-16 00:31:41

# Below is generated by plot.py at 2018-02-16 03:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 86.890 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 54.50 Mbit/s
95th percentile per-packet one-way delay: 86.890 ms
Loss rate: 0.99%
```

Run 10: Report of QUIC Cubic — Data Link

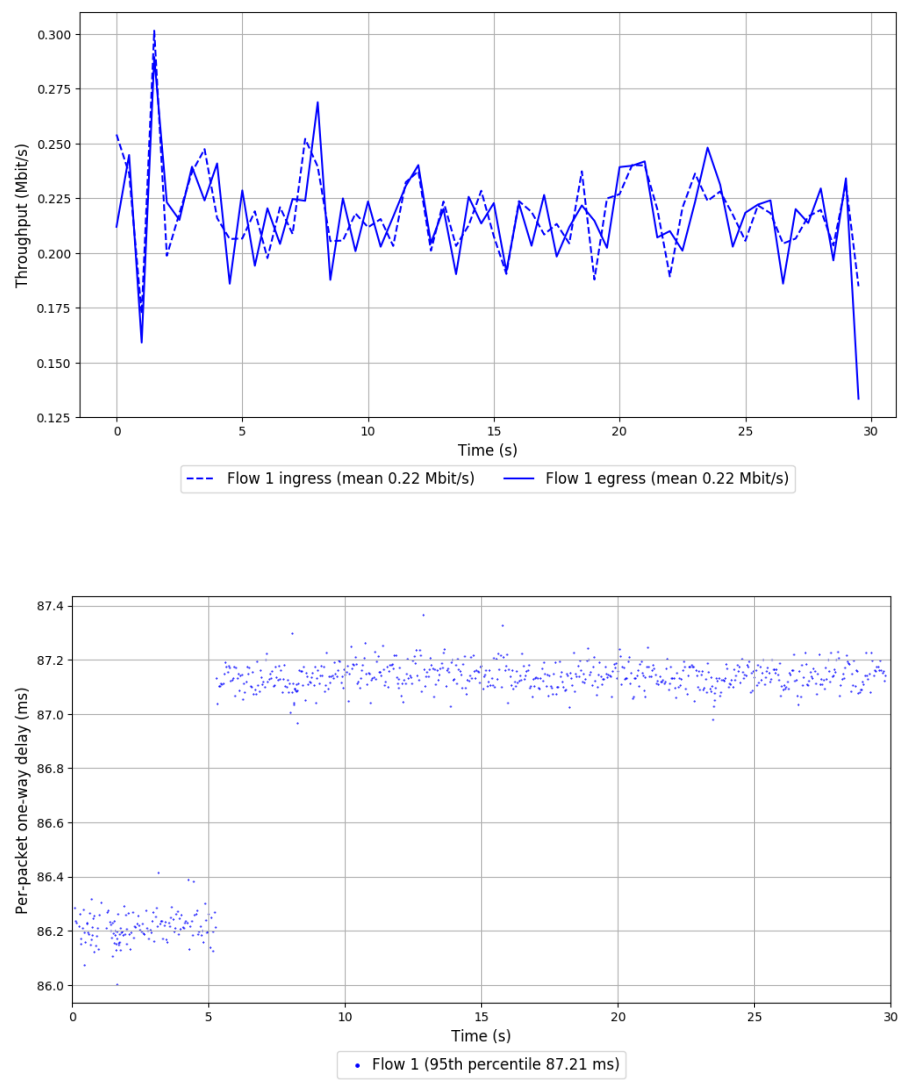


```
Run 1: Statistics of SCReAM

Start at: 2018-02-15 22:07:33
End at: 2018-02-15 22:08:03

# Below is generated by plot.py at 2018-02-16 03:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.211 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.211 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

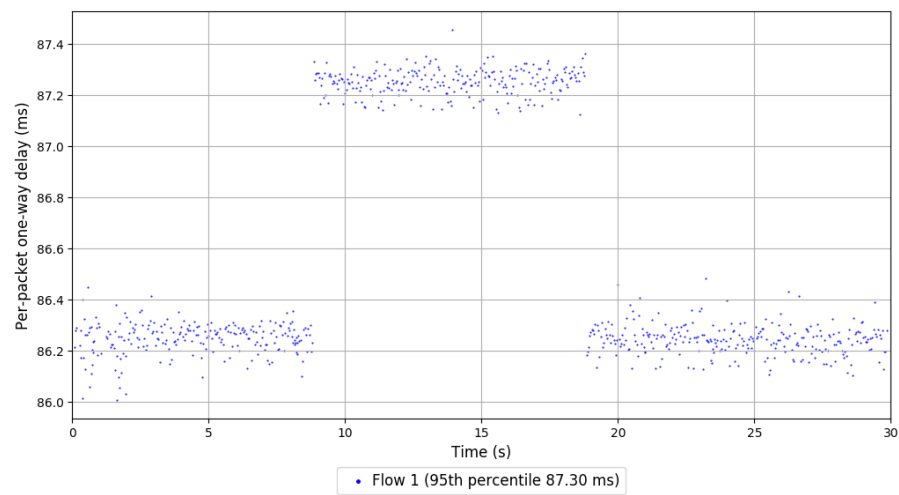
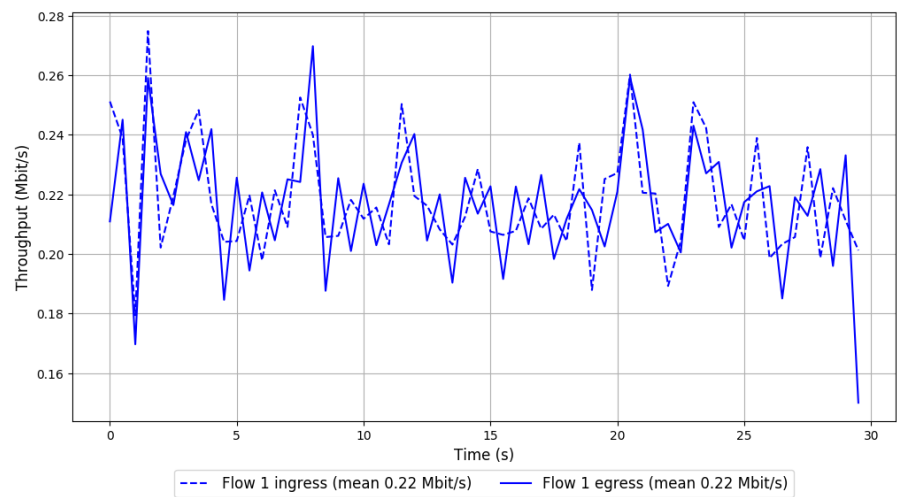


```
Run 2: Statistics of SCReAM

Start at: 2018-02-15 22:23:10
End at: 2018-02-15 22:23:40

# Below is generated by plot.py at 2018-02-16 03:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.302 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.302 ms
Loss rate: 0.64%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-15 22:39:00

End at: 2018-02-15 22:39:30

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.694 ms

Loss rate: 0.64%

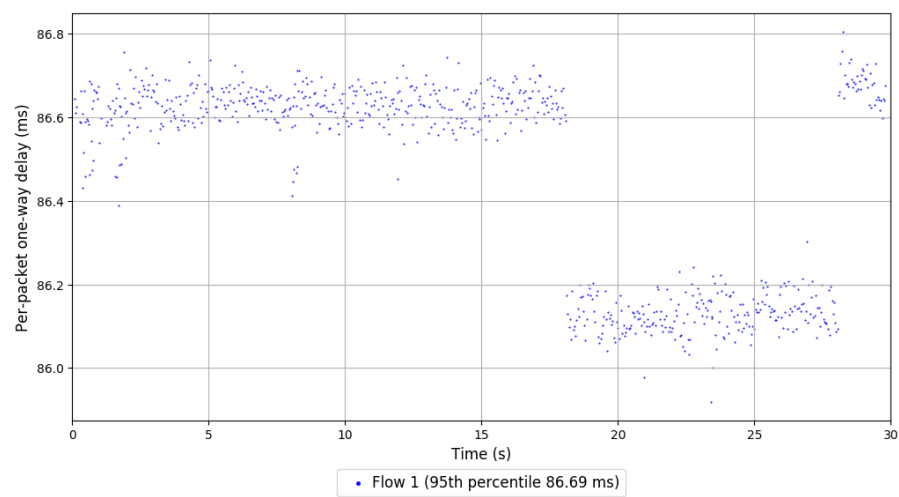
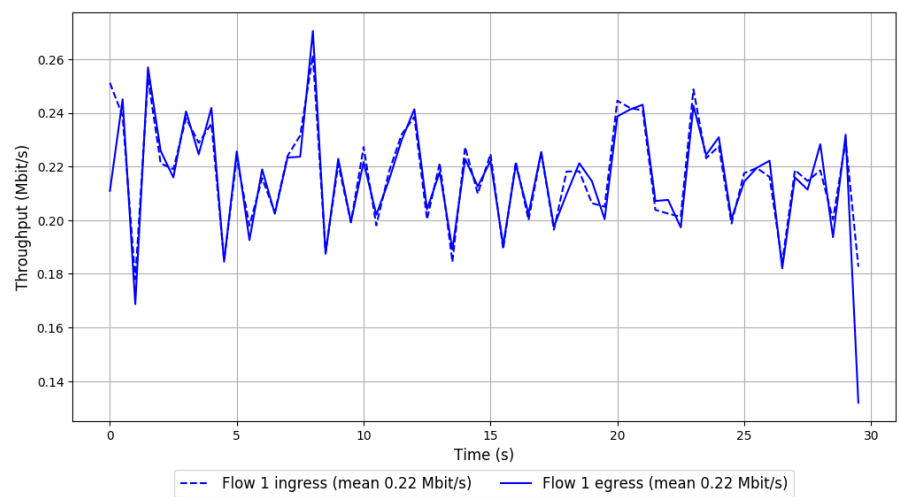
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.694 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-15 22:54:21

End at: 2018-02-15 22:54:51

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.993 ms

Loss rate: 0.51%

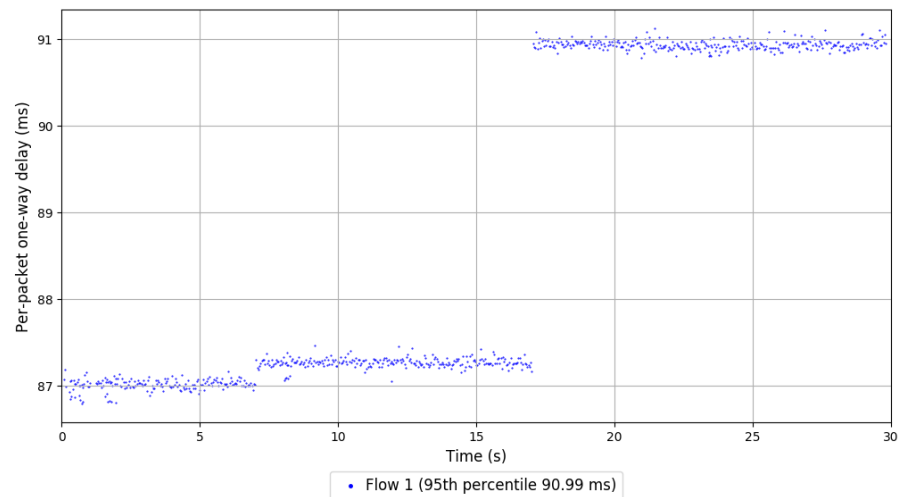
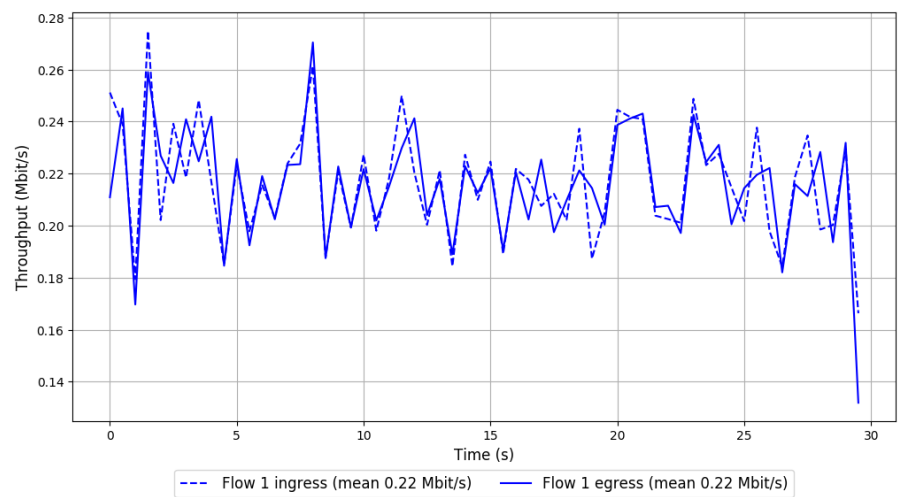
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.993 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-15 23:10:06

End at: 2018-02-15 23:10:36

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.257 ms

Loss rate: 0.52%

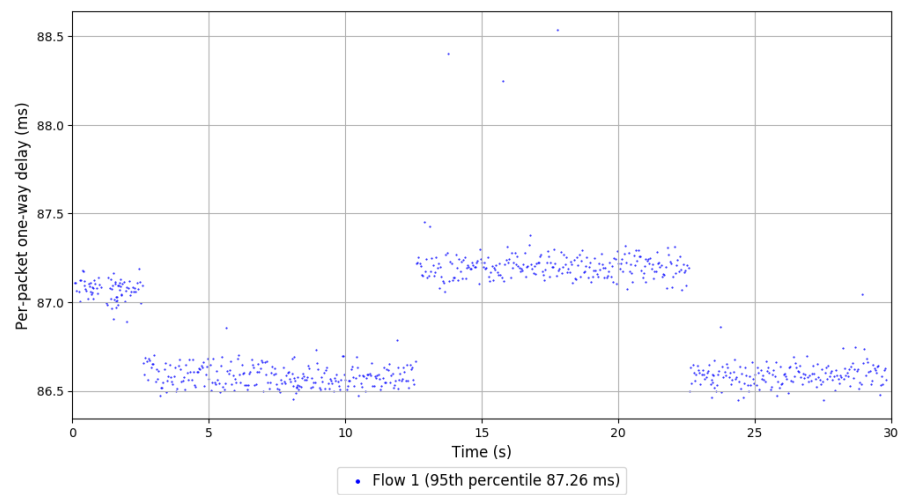
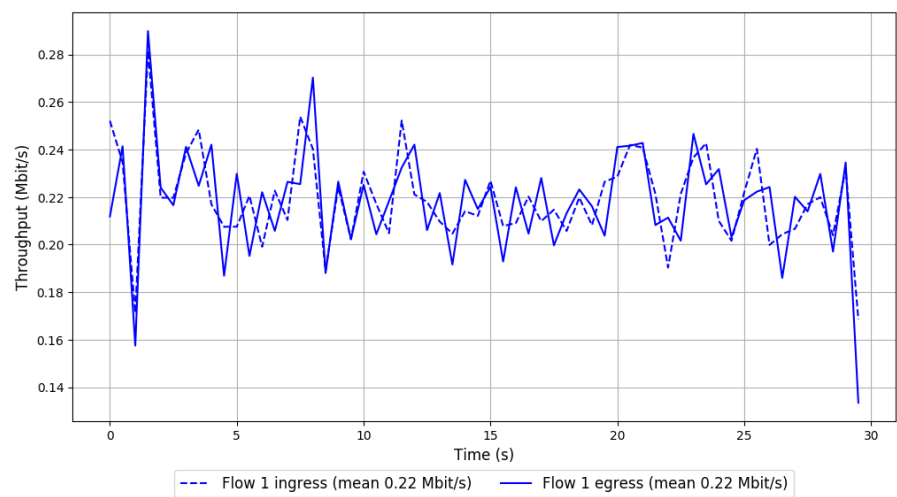
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.257 ms

Loss rate: 0.52%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-15 23:25:53

End at: 2018-02-15 23:26:23

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.931 ms

Loss rate: 0.64%

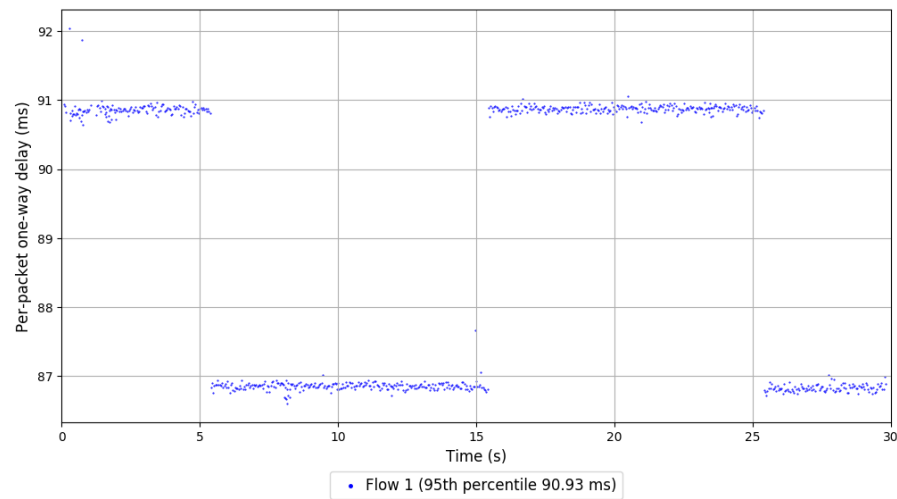
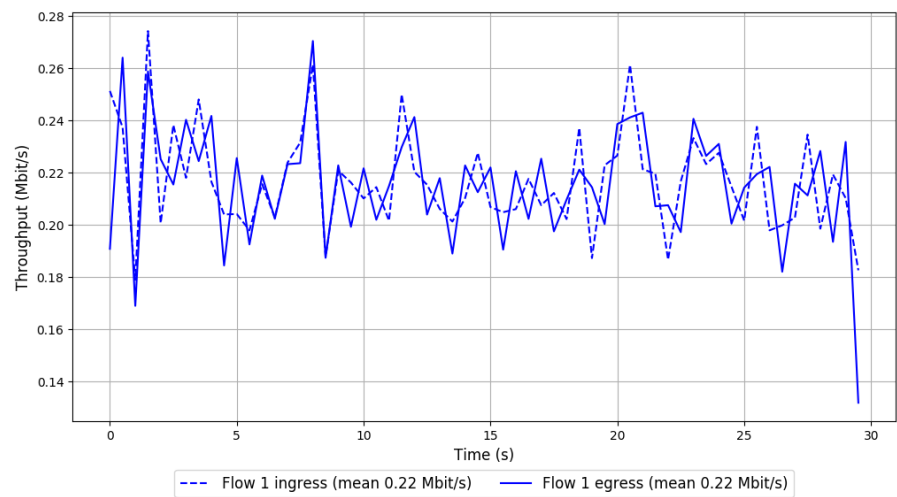
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.931 ms

Loss rate: 0.64%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-15 23:41:36

End at: 2018-02-15 23:42:06

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.961 ms

Loss rate: 0.64%

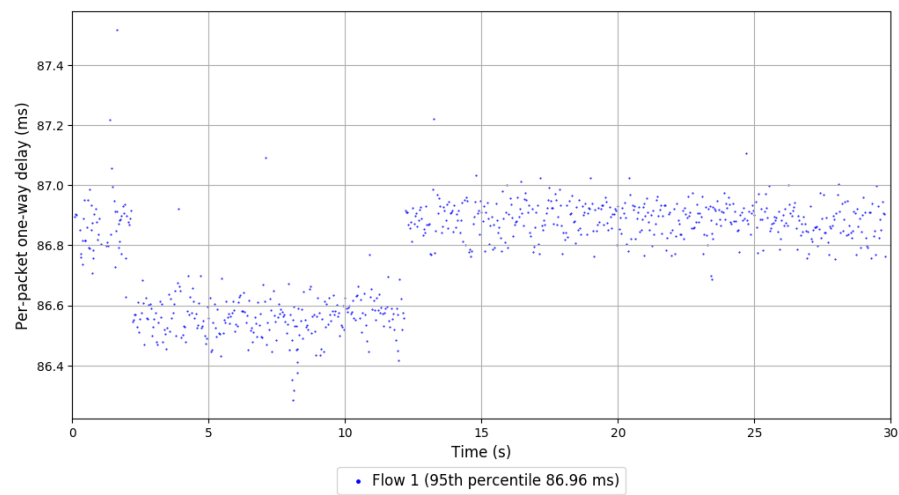
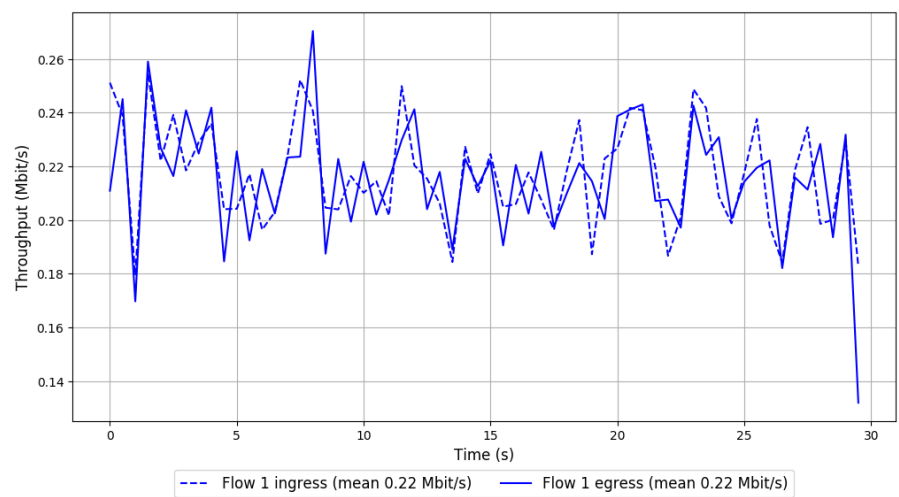
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.961 ms

Loss rate: 0.64%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-15 23:57:01

End at: 2018-02-15 23:57:31

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.426 ms

Loss rate: 0.64%

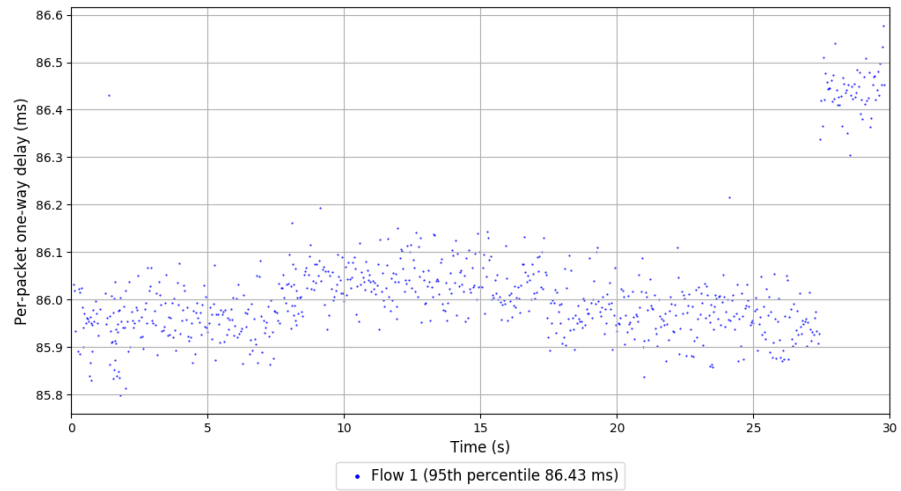
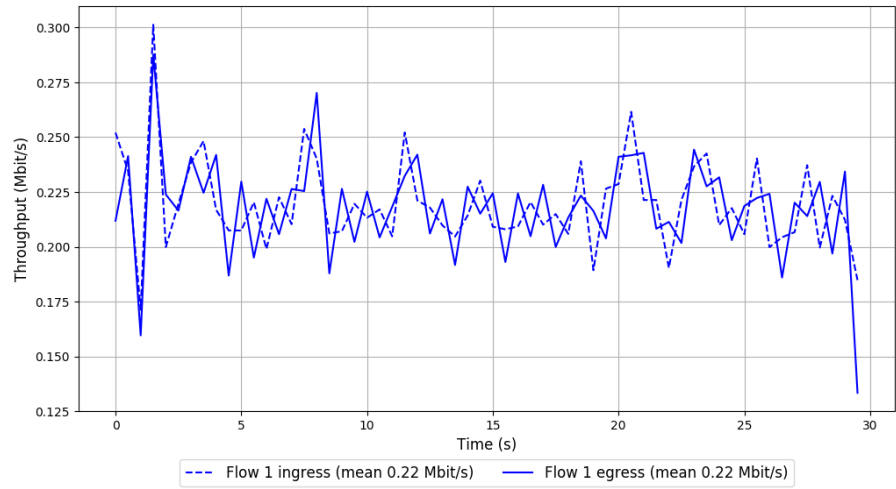
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.426 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-16 00:12:10

End at: 2018-02-16 00:12:40

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.794 ms

Loss rate: 0.64%

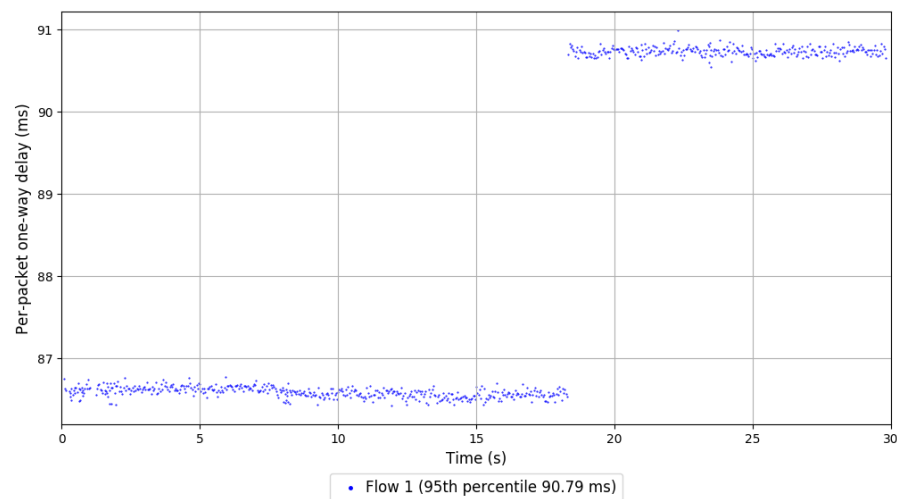
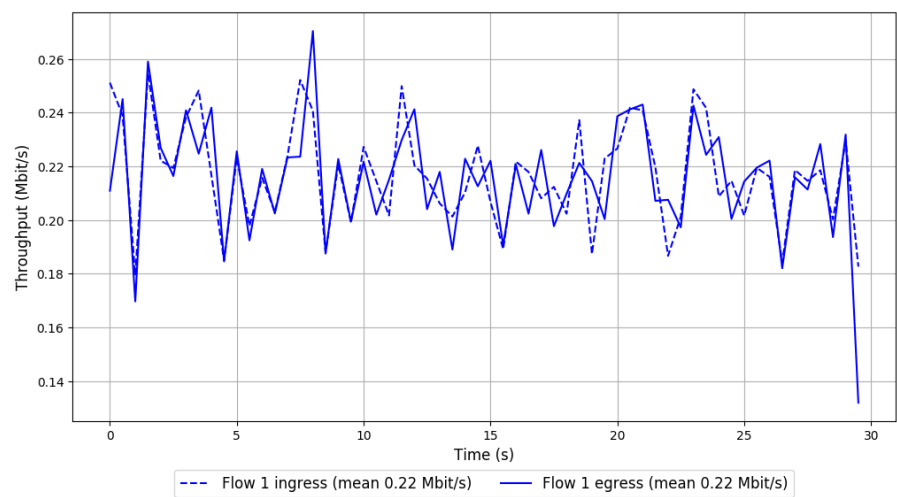
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 90.794 ms

Loss rate: 0.64%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 00:27:40

End at: 2018-02-16 00:28:10

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.990 ms

Loss rate: 0.64%

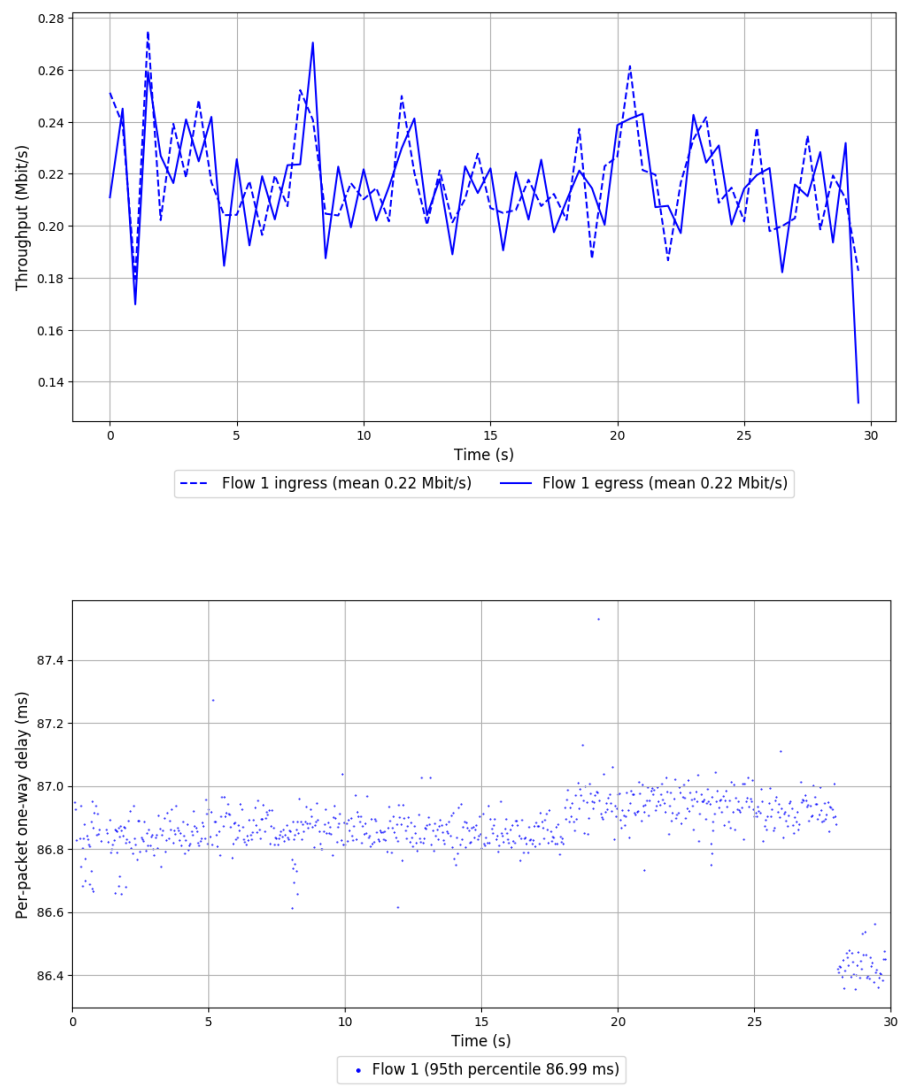
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.990 ms

Loss rate: 0.64%

Run 10: Report of SCRaM — Data Link

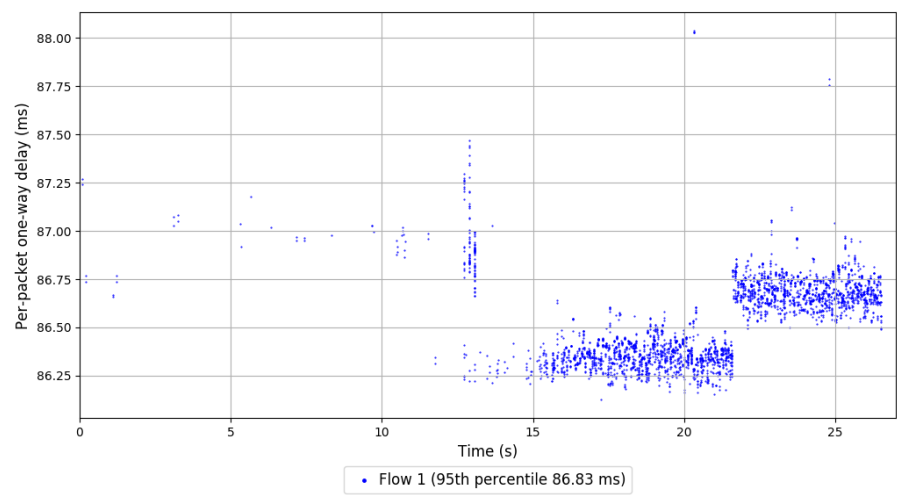
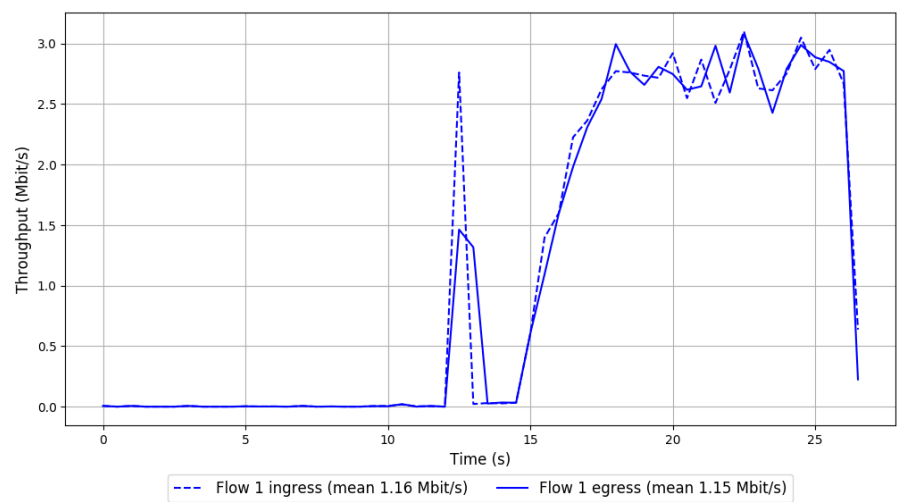


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-15 22:06:53
End at: 2018-02-15 22:07:23

# Below is generated by plot.py at 2018-02-16 03:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 86.833 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 86.833 ms
Loss rate: 1.39%
```


Run 1: Report of WebRTC media — Data Link

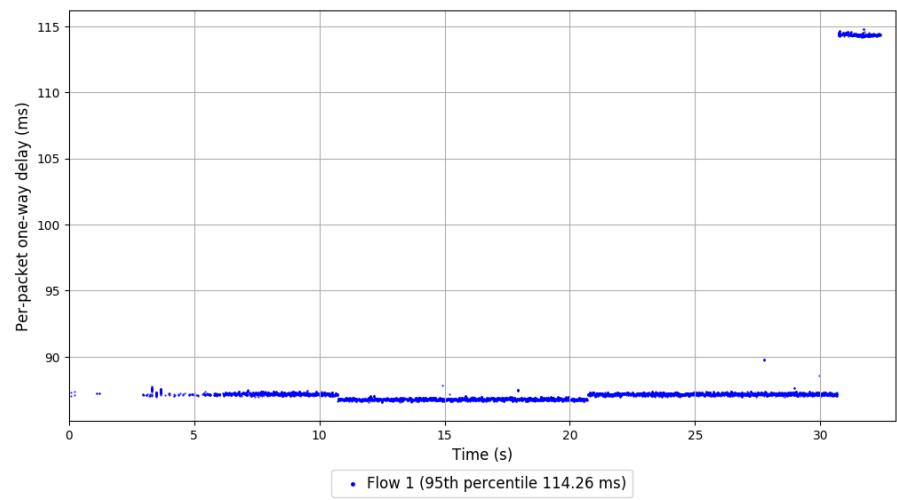
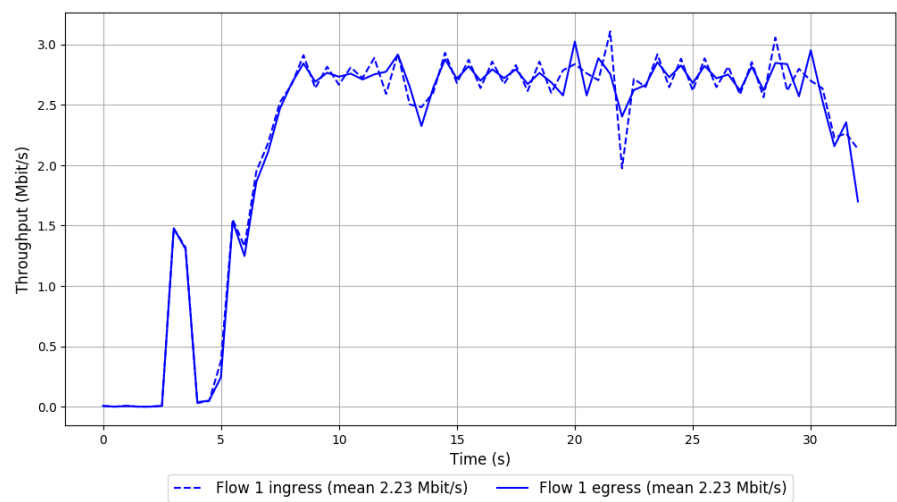


```
Run 2: Statistics of WebRTC media

Start at: 2018-02-15 22:22:30
End at: 2018-02-15 22:23:00

# Below is generated by plot.py at 2018-02-16 03:43:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 114.257 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 114.257 ms
Loss rate: 0.63%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-15 22:38:20

End at: 2018-02-15 22:38:50

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 87.233 ms

Loss rate: 0.78%

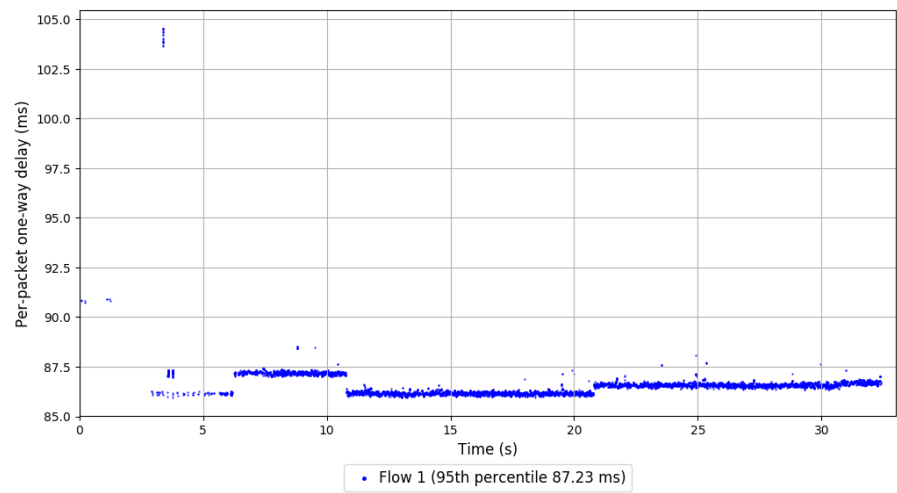
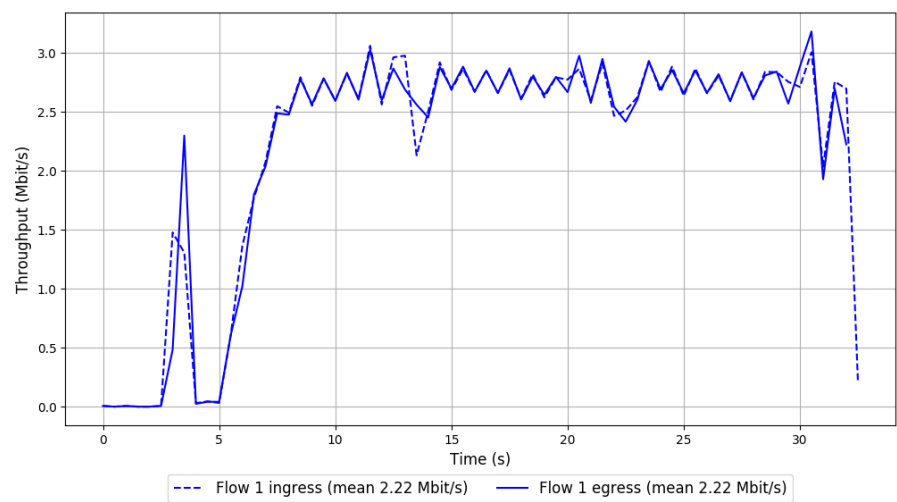
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 87.233 ms

Loss rate: 0.78%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-15 22:53:42

End at: 2018-02-15 22:54:12

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 86.891 ms

Loss rate: 0.67%

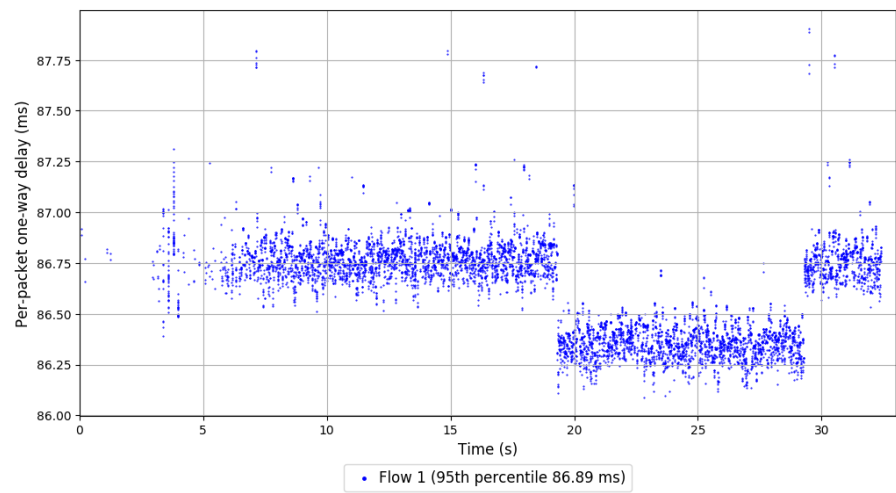
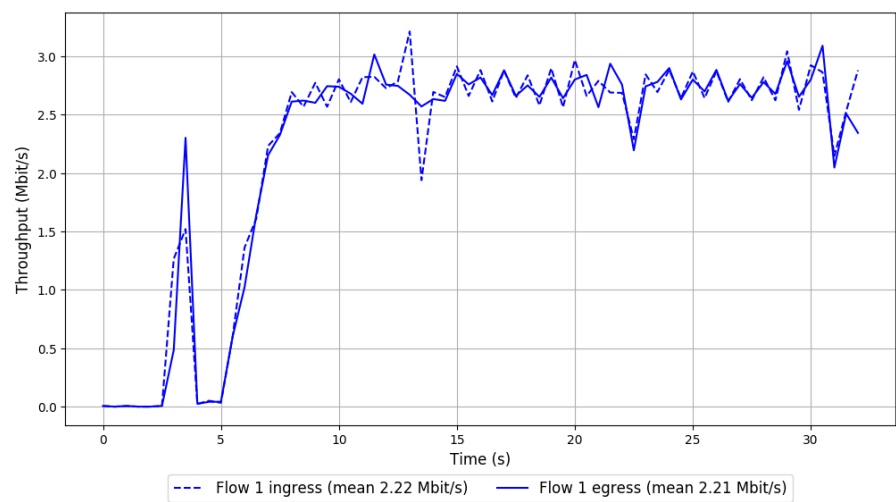
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 86.891 ms

Loss rate: 0.67%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-15 23:09:26

End at: 2018-02-15 23:09:56

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 90.918 ms

Loss rate: 0.87%

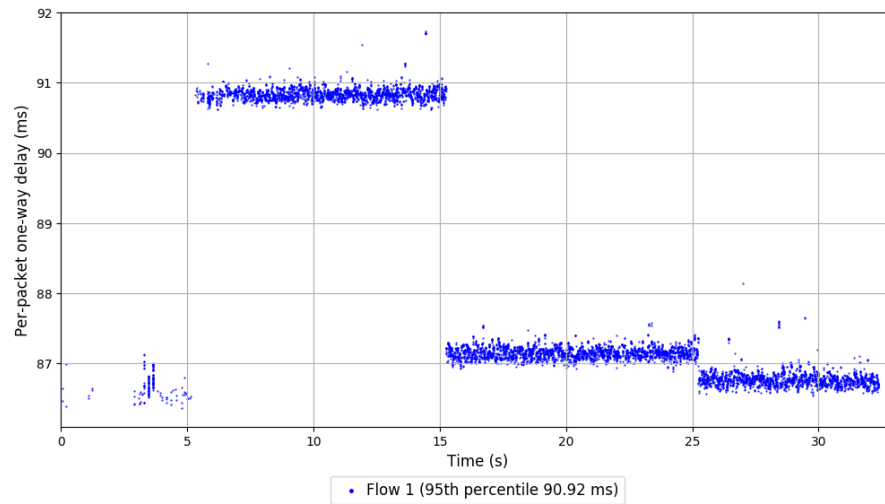
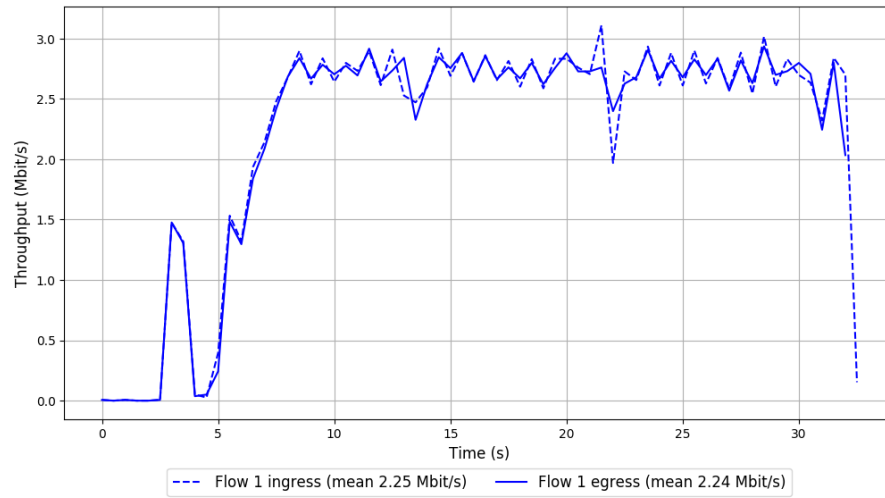
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 90.918 ms

Loss rate: 0.87%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-15 23:25:12

End at: 2018-02-15 23:25:42

Below is generated by plot.py at 2018-02-16 03:43:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 90.954 ms

Loss rate: 0.78%

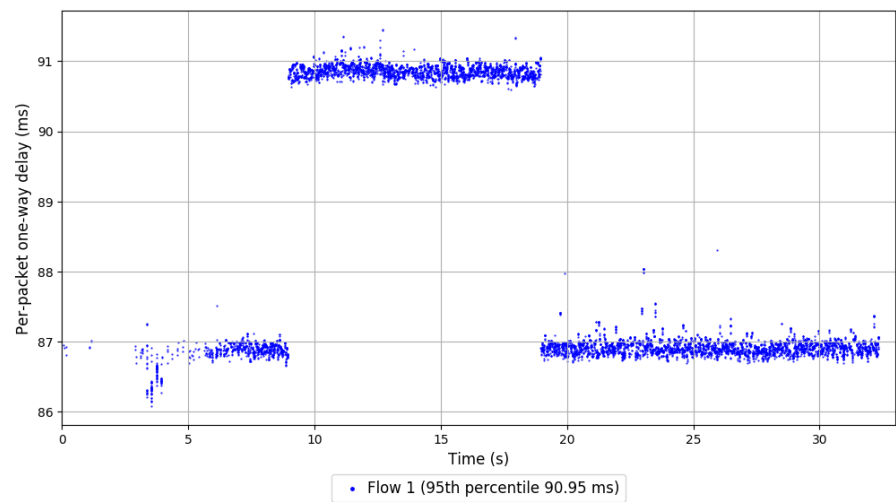
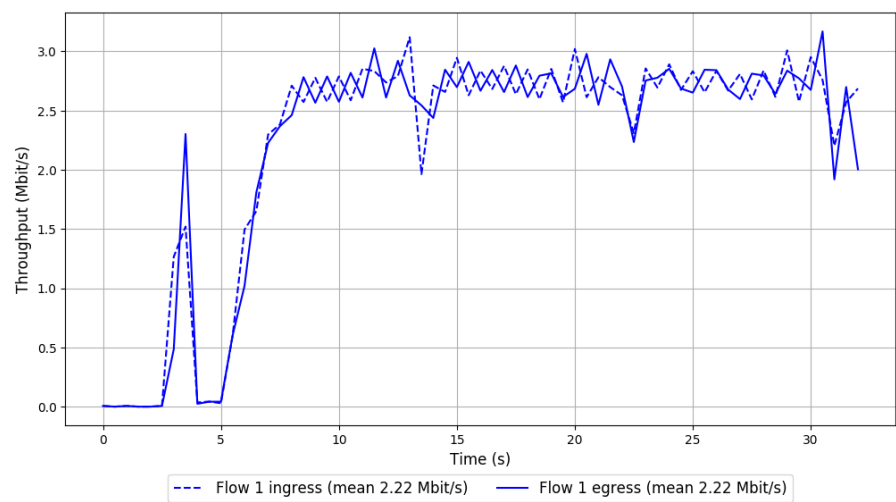
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 90.954 ms

Loss rate: 0.78%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-15 23:40:56

End at: 2018-02-15 23:41:26

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.710 ms

Loss rate: 0.77%

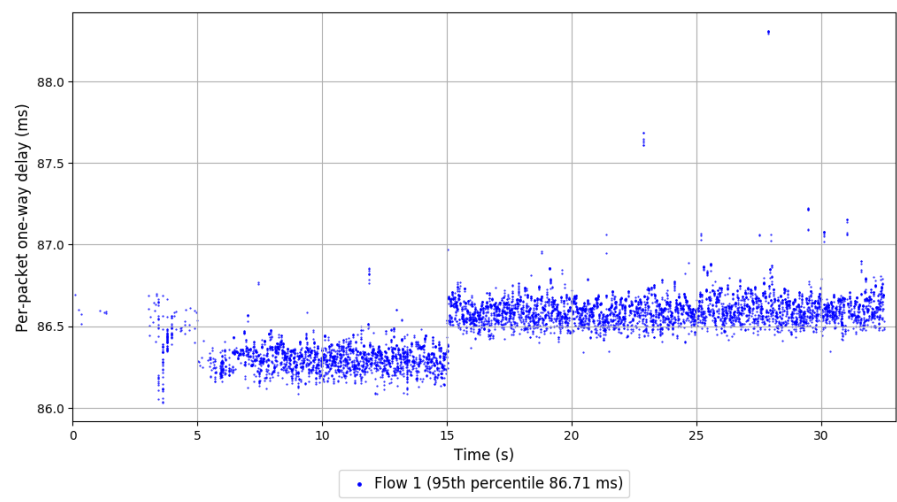
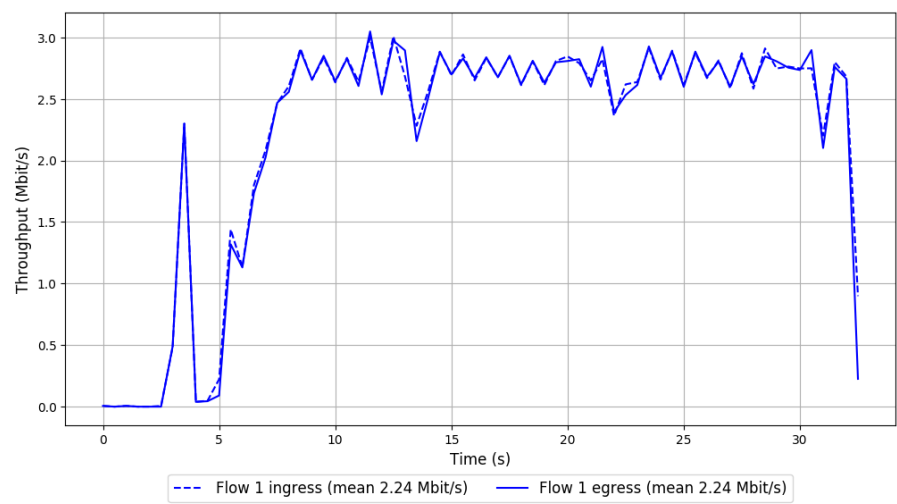
-- Flow 1:

Average throughput: 2.24 Mbit/s

95th percentile per-packet one-way delay: 86.710 ms

Loss rate: 0.77%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-15 23:56:20

End at: 2018-02-15 23:56:50

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 86.489 ms

Loss rate: 0.78%

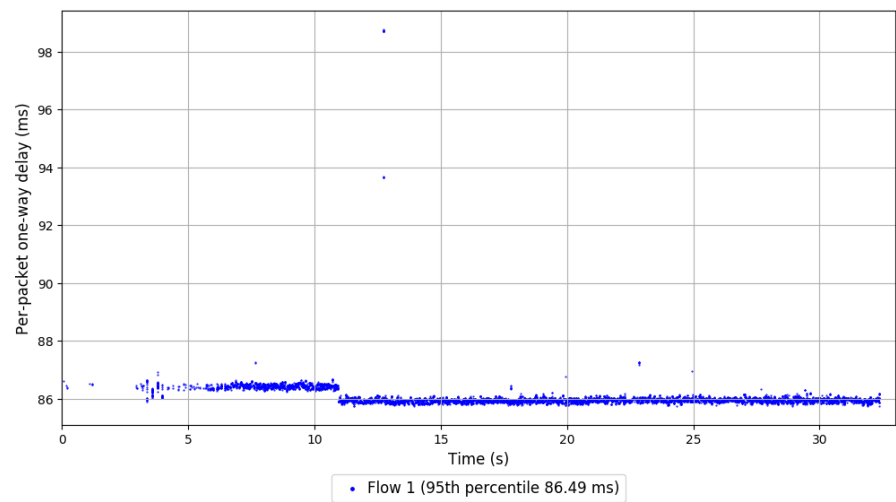
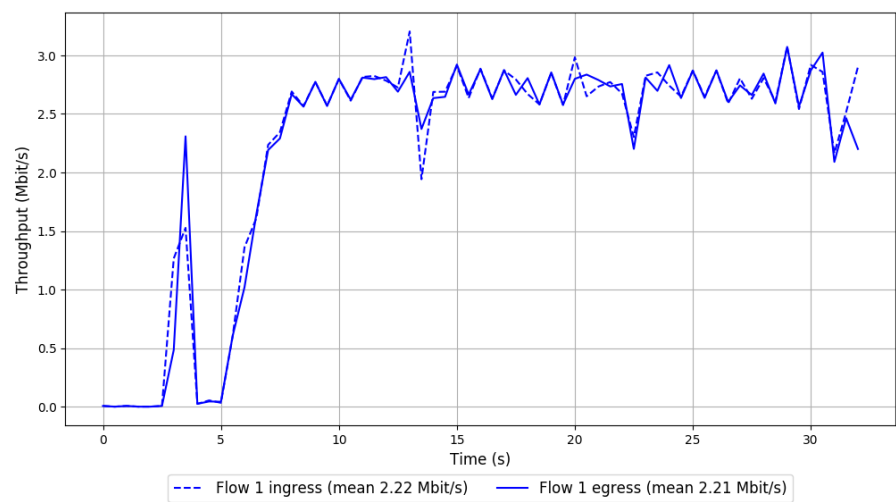
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 86.489 ms

Loss rate: 0.78%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 00:11:30

End at: 2018-02-16 00:12:00

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 86.721 ms

Loss rate: 0.78%

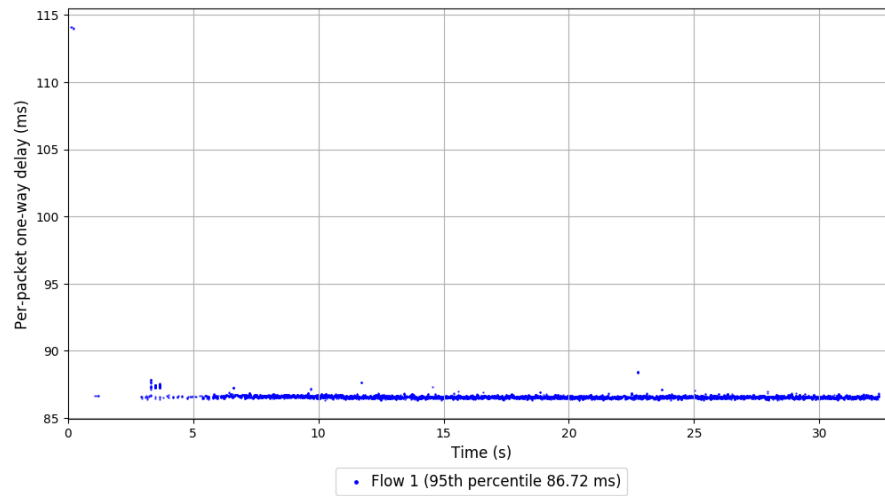
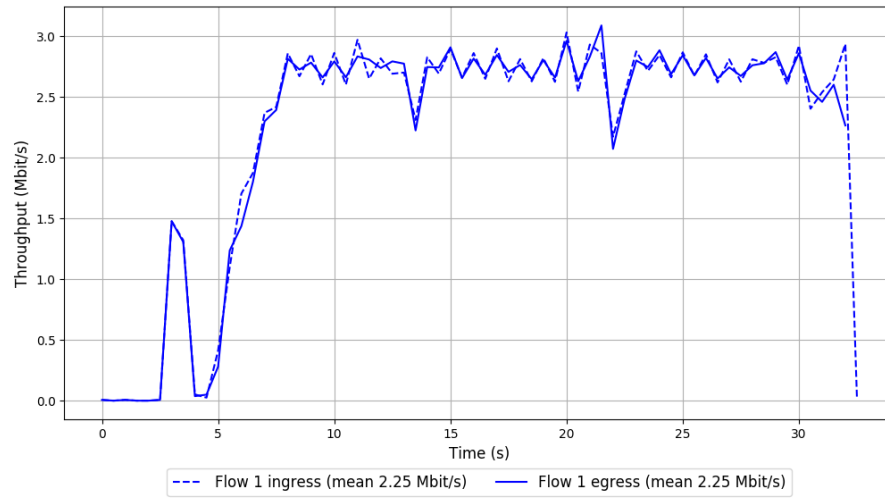
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 86.721 ms

Loss rate: 0.78%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 00:27:00

End at: 2018-02-16 00:27:30

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 91.376 ms

Loss rate: 0.78%

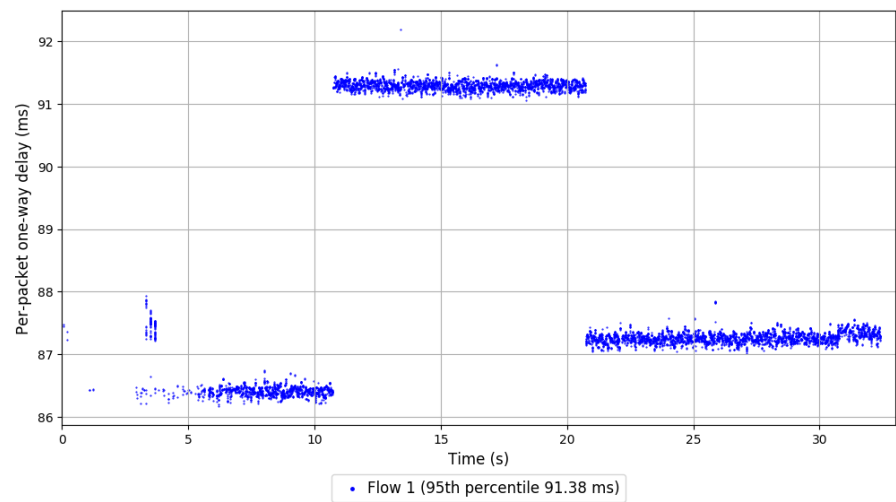
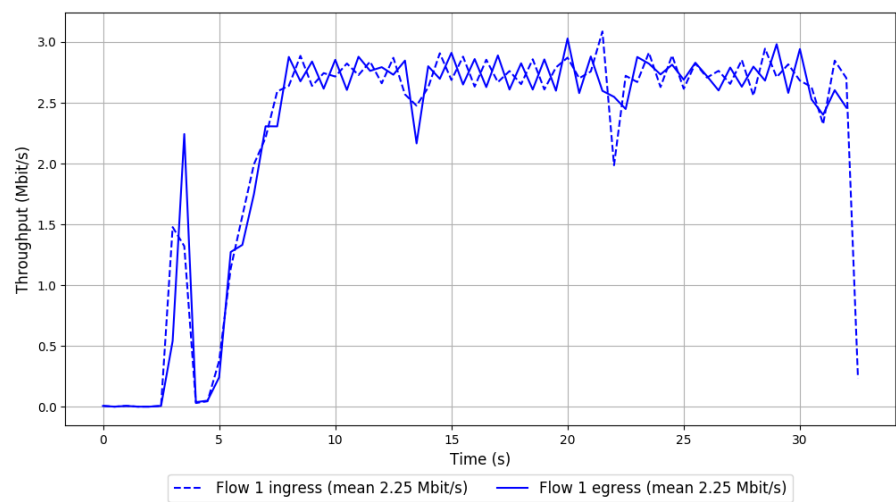
-- Flow 1:

Average throughput: 2.25 Mbit/s

95th percentile per-packet one-way delay: 91.376 ms

Loss rate: 0.78%

Run 10: Report of WebRTC media — Data Link

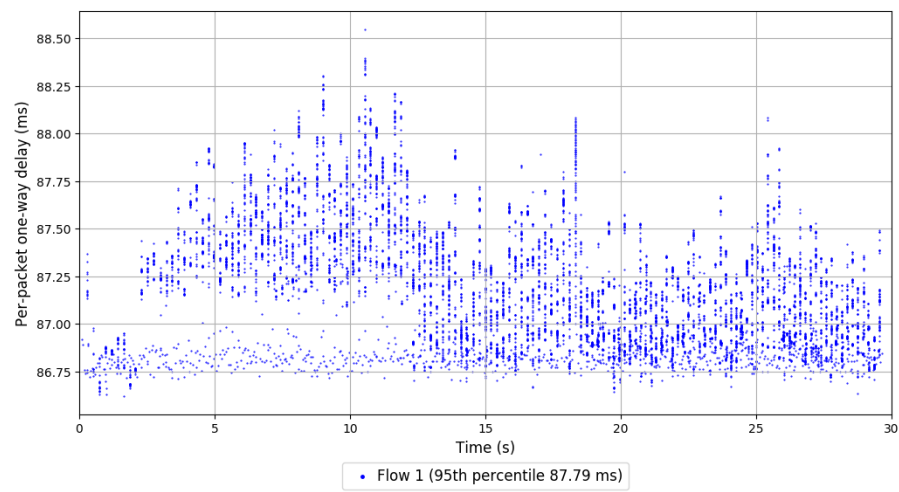
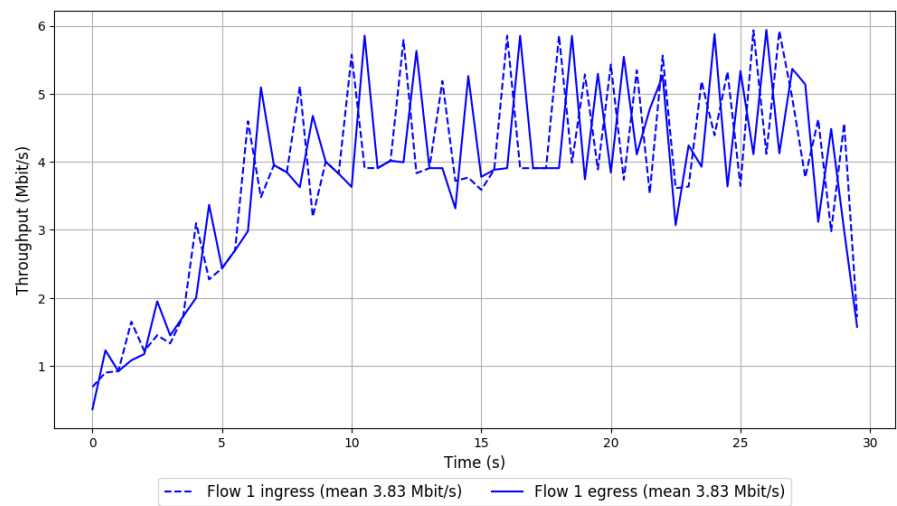


```
Run 1: Statistics of Sprout

Start at: 2018-02-15 22:02:16
End at: 2018-02-15 22:02:46

# Below is generated by plot.py at 2018-02-16 03:43:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 87.789 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 3.83 Mbit/s
95th percentile per-packet one-way delay: 87.789 ms
Loss rate: 0.75%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-15 22:17:54

End at: 2018-02-15 22:18:24

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 87.671 ms

Loss rate: 0.73%

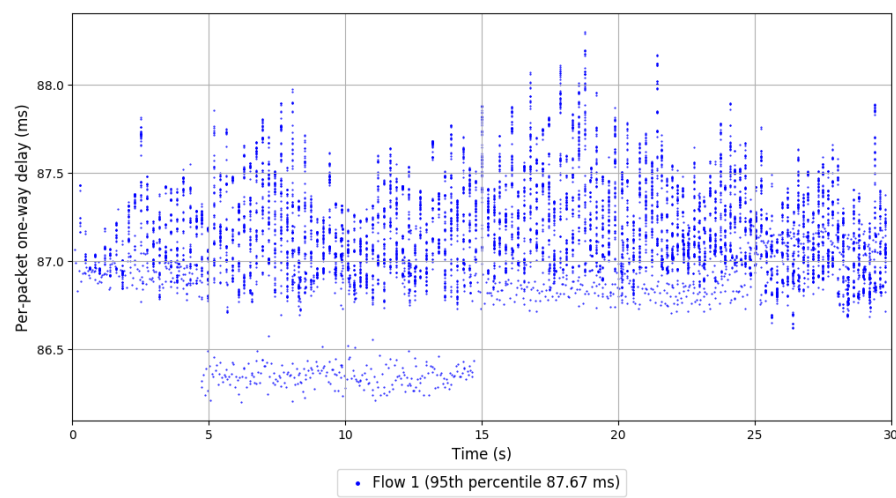
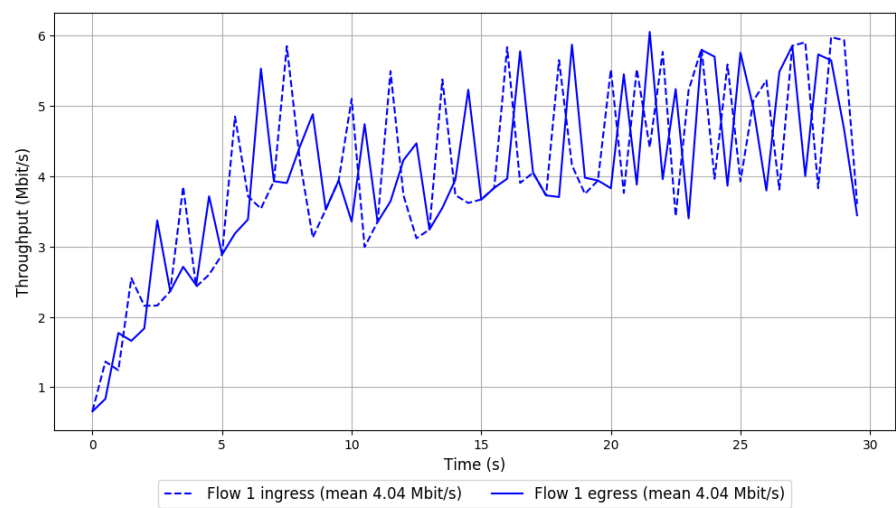
-- Flow 1:

Average throughput: 4.04 Mbit/s

95th percentile per-packet one-way delay: 87.671 ms

Loss rate: 0.73%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-15 22:34:07

End at: 2018-02-15 22:34:37

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 87.772 ms

Loss rate: 0.89%

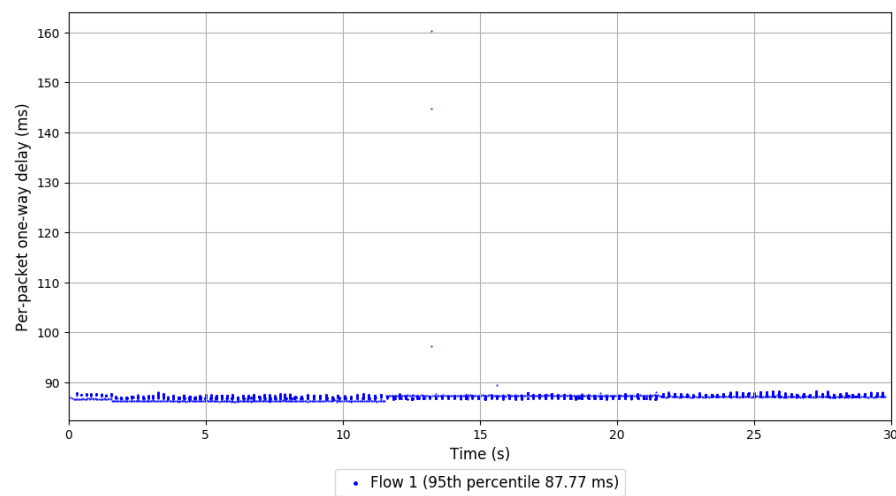
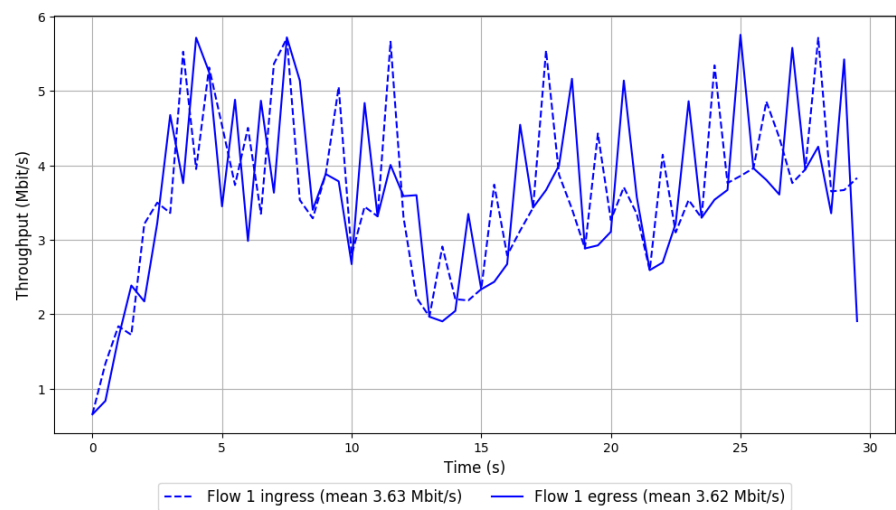
-- Flow 1:

Average throughput: 3.62 Mbit/s

95th percentile per-packet one-way delay: 87.772 ms

Loss rate: 0.89%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-15 22:49:24

End at: 2018-02-15 22:49:54

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 87.903 ms

Loss rate: 0.78%

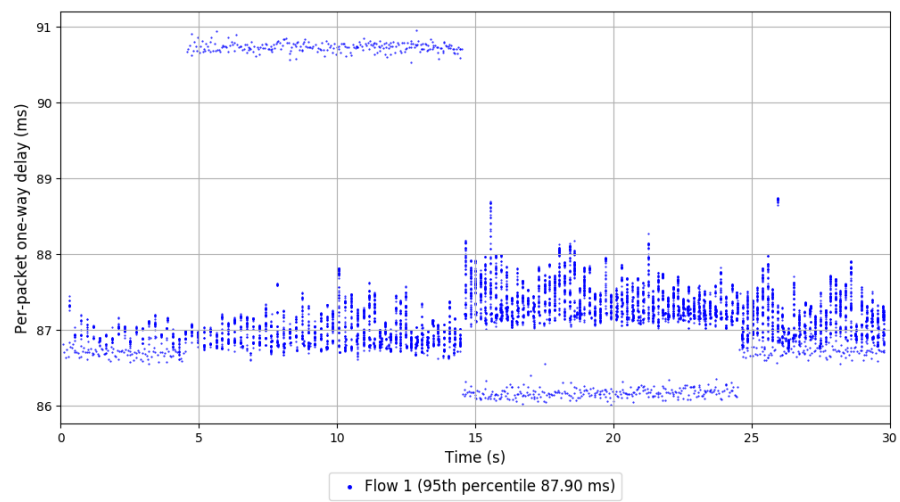
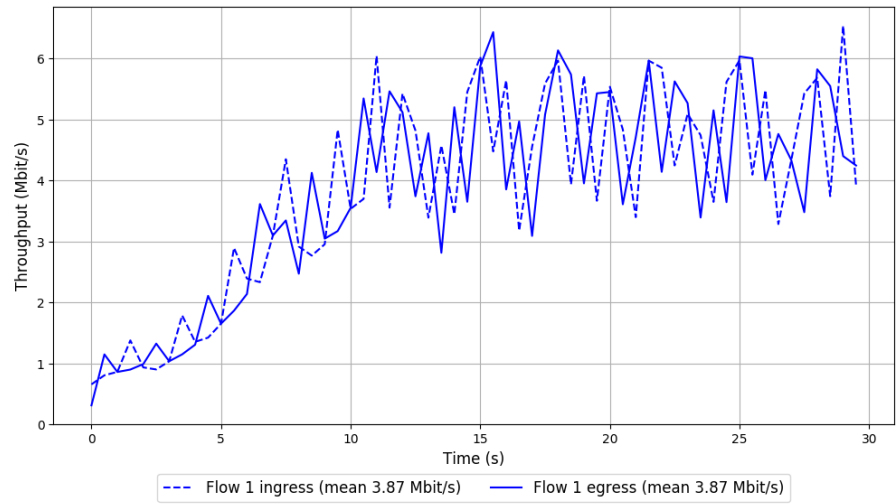
-- Flow 1:

Average throughput: 3.87 Mbit/s

95th percentile per-packet one-way delay: 87.903 ms

Loss rate: 0.78%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-15 23:04:55

End at: 2018-02-15 23:05:25

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 90.808 ms

Loss rate: 0.90%

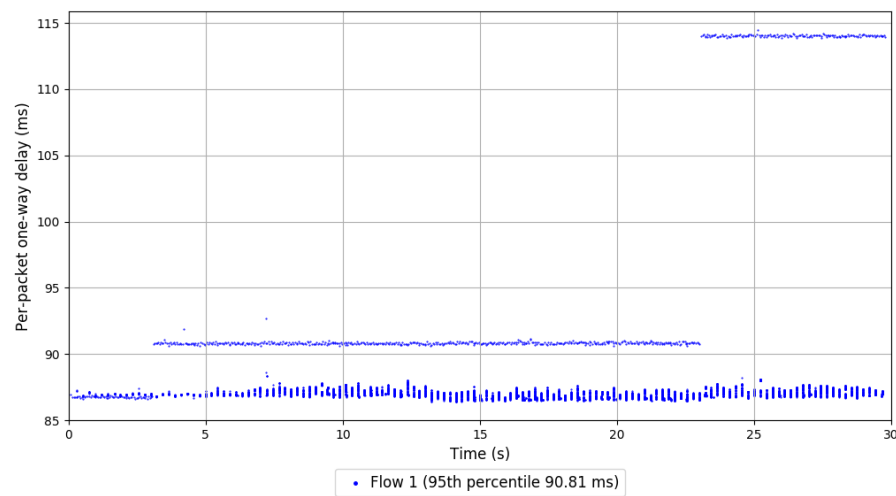
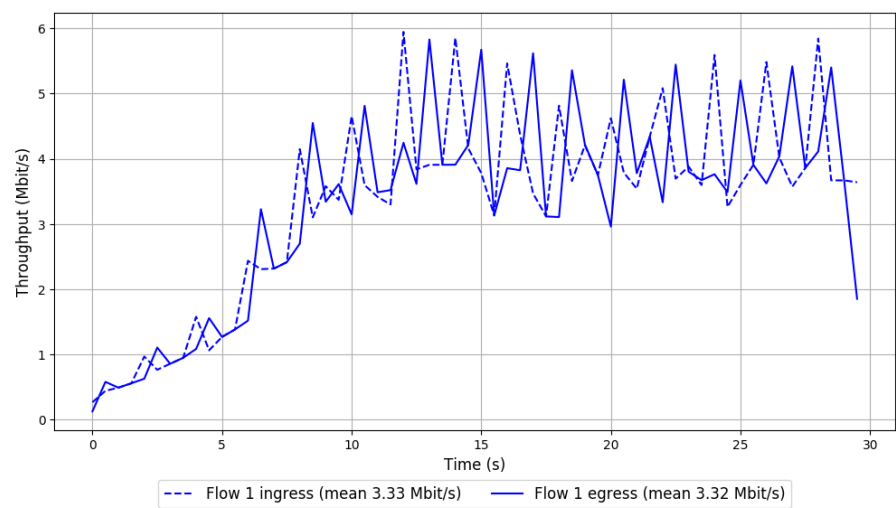
-- Flow 1:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 90.808 ms

Loss rate: 0.90%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-15 23:20:41

End at: 2018-02-15 23:21:11

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 87.732 ms

Loss rate: 0.96%

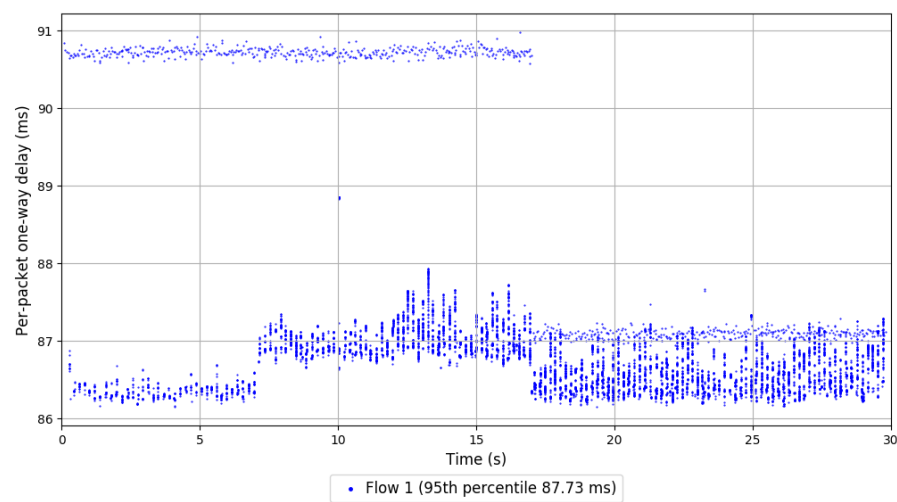
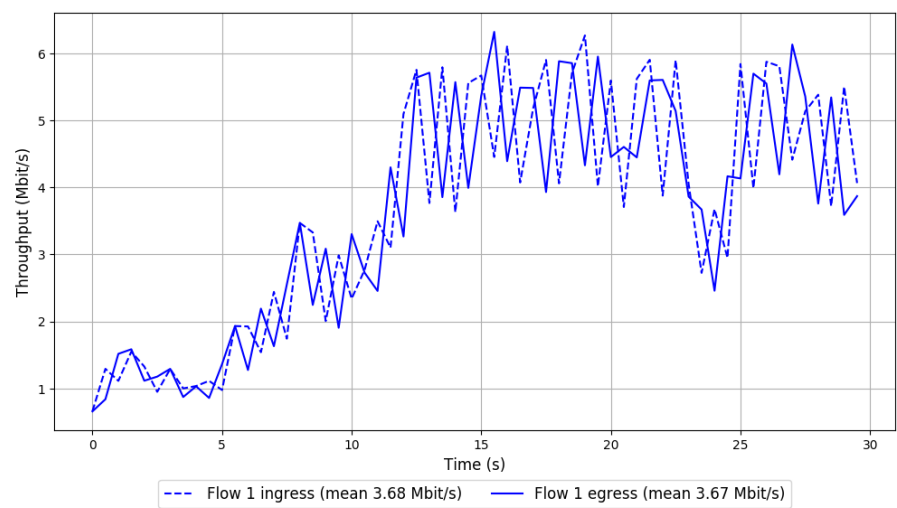
-- Flow 1:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 87.732 ms

Loss rate: 0.96%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-15 23:36:29

End at: 2018-02-15 23:36:59

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 91.015 ms

Loss rate: 0.17%

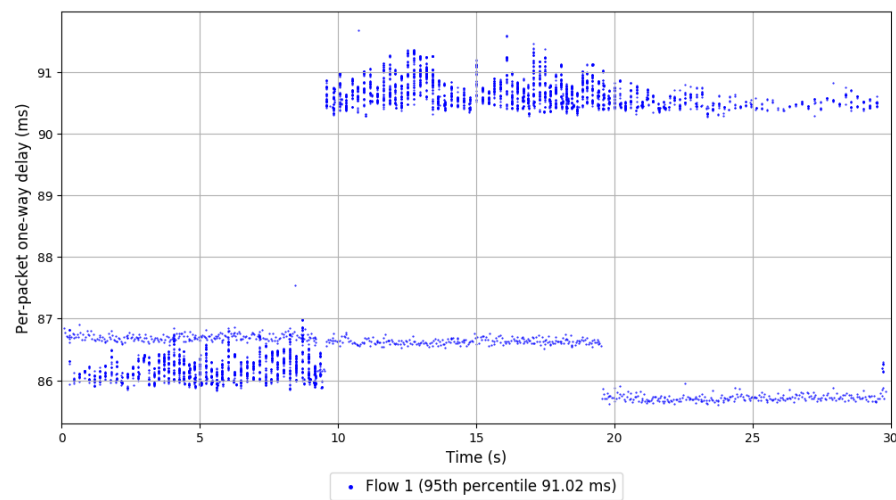
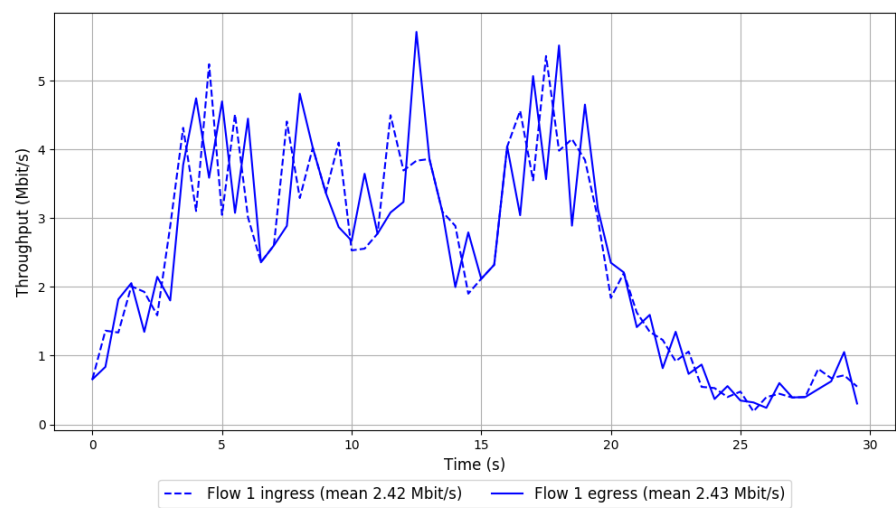
-- Flow 1:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 91.015 ms

Loss rate: 0.17%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-15 23:52:00

End at: 2018-02-15 23:52:30

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 113.586 ms

Loss rate: 0.59%

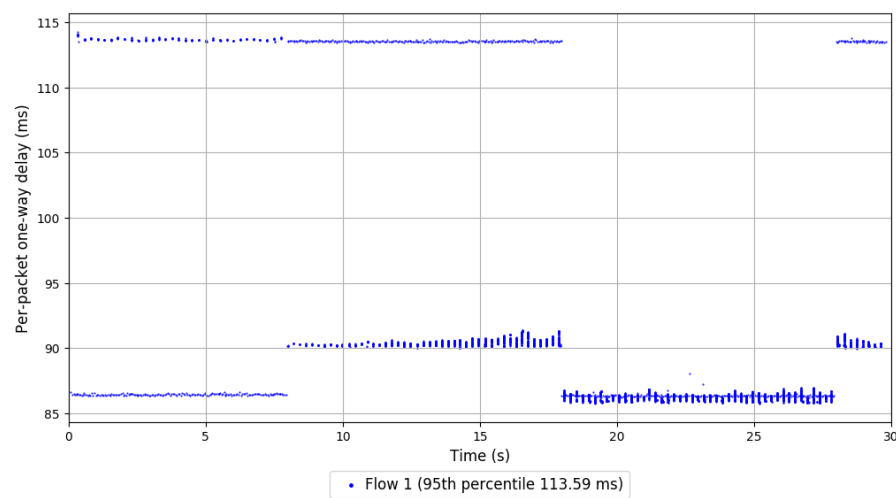
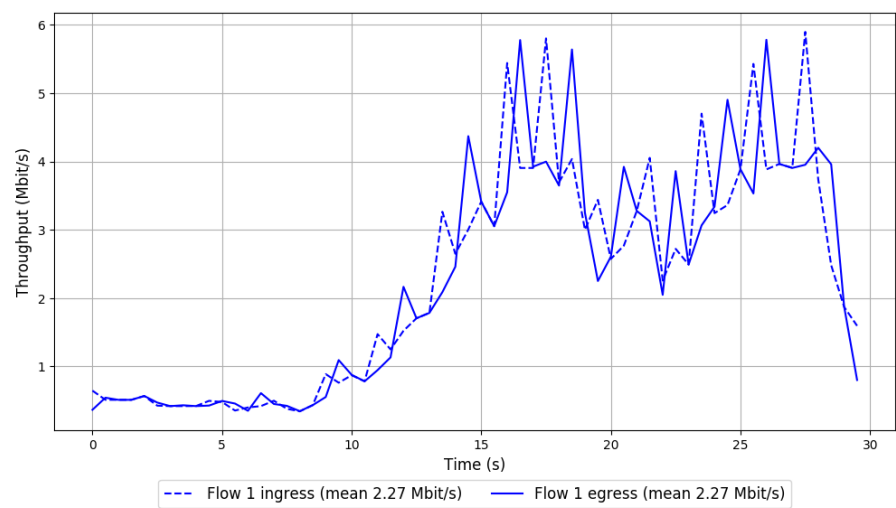
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 113.586 ms

Loss rate: 0.59%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-16 00:07:14

End at: 2018-02-16 00:07:44

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 90.934 ms

Loss rate: 0.87%

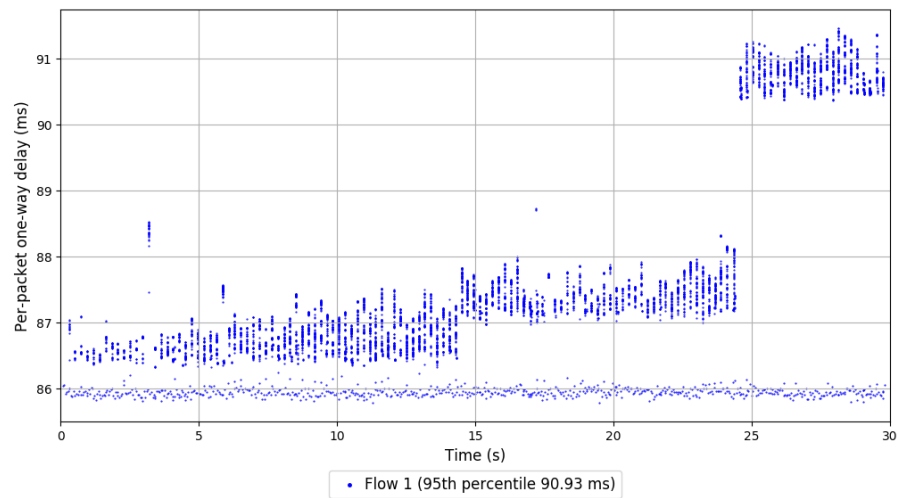
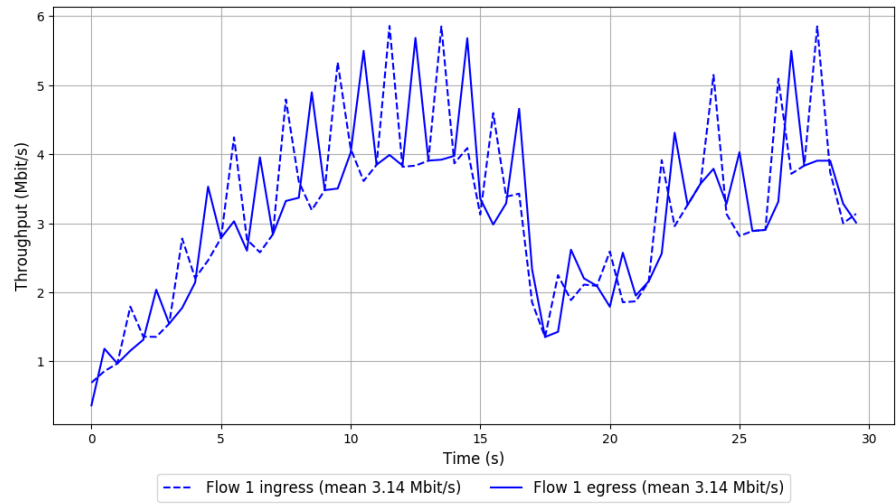
-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 90.934 ms

Loss rate: 0.87%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-16 00:22:45

End at: 2018-02-16 00:23:15

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.365 ms

Loss rate: 0.84%

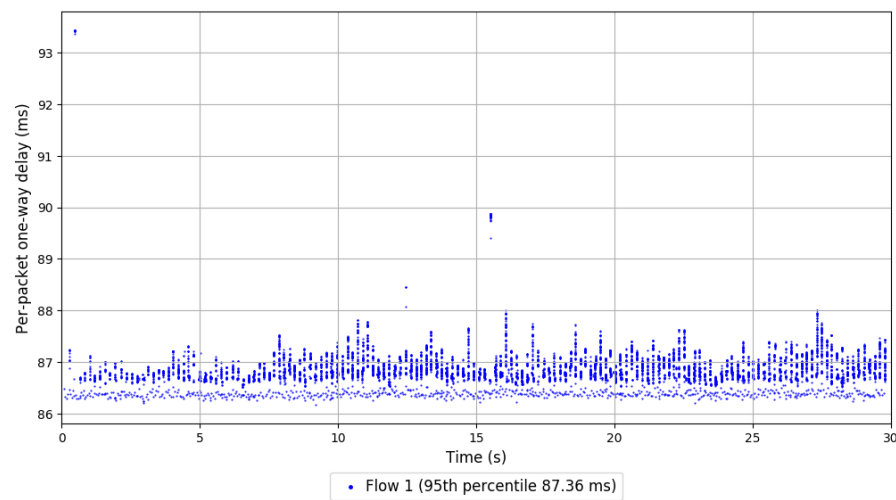
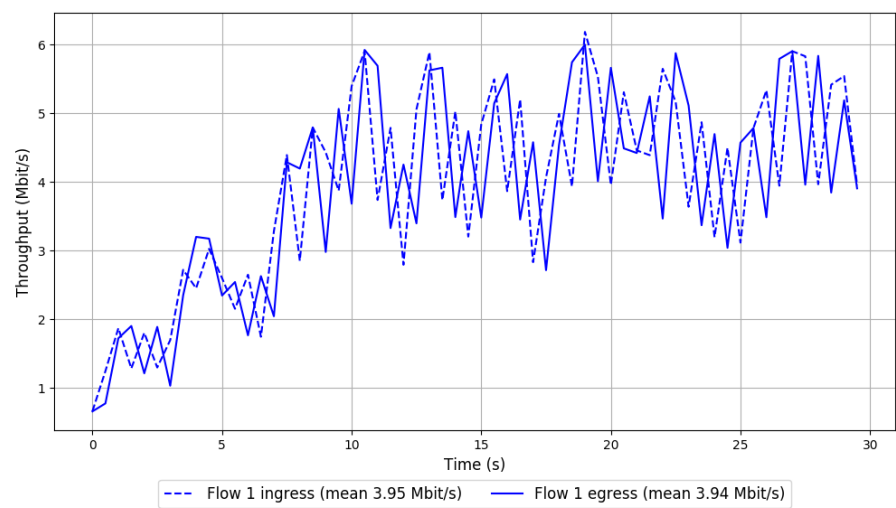
-- Flow 1:

Average throughput: 3.94 Mbit/s

95th percentile per-packet one-way delay: 87.365 ms

Loss rate: 0.84%

Run 10: Report of Sprout — Data Link

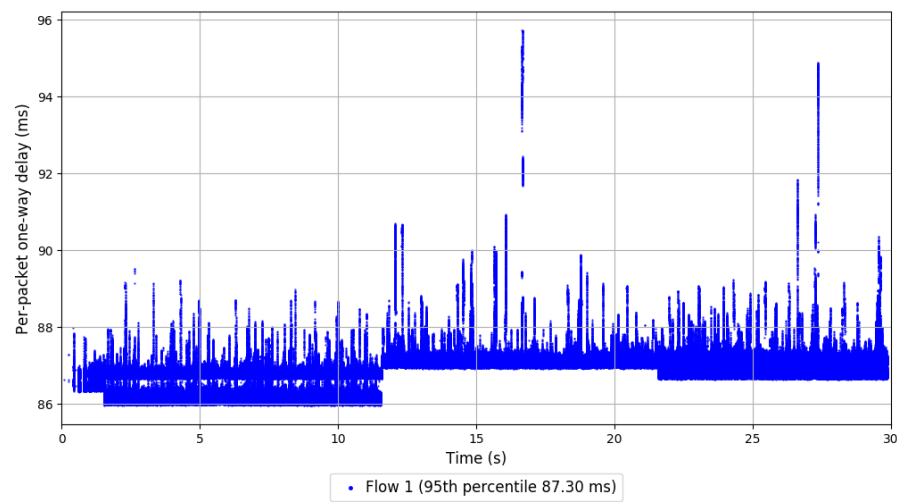
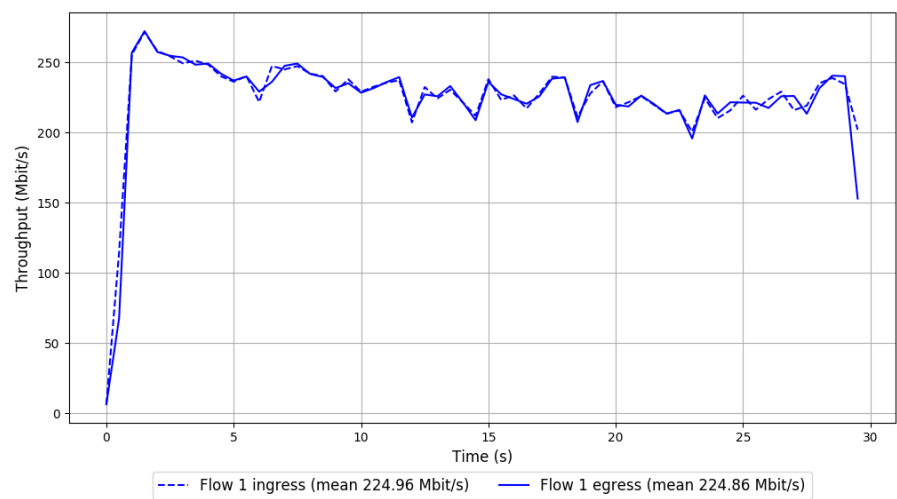


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-15 22:02:57
End at: 2018-02-15 22:03:27

# Below is generated by plot.py at 2018-02-16 03:43:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.86 Mbit/s
95th percentile per-packet one-way delay: 87.298 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 224.86 Mbit/s
95th percentile per-packet one-way delay: 87.298 ms
Loss rate: 0.62%
```


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

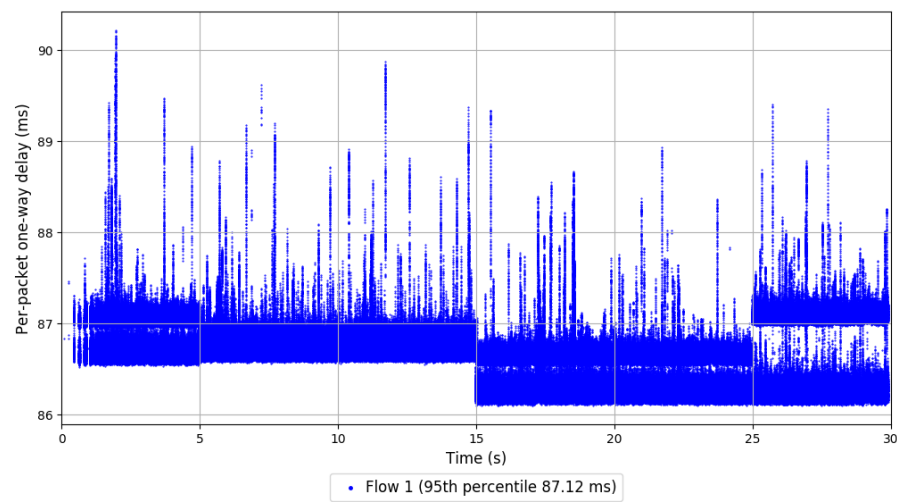
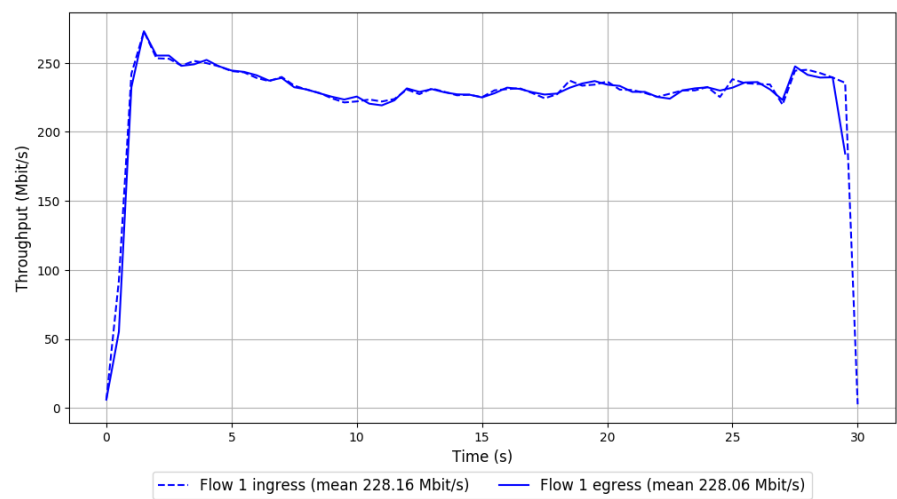


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-15 22:18:33
End at: 2018-02-15 22:19:03

# Below is generated by plot.py at 2018-02-16 03:43:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.06 Mbit/s
95th percentile per-packet one-way delay: 87.119 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 228.06 Mbit/s
95th percentile per-packet one-way delay: 87.119 ms
Loss rate: 0.72%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-15 22:34:46

End at: 2018-02-15 22:35:16

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: 90.757 ms

Loss rate: 0.18%

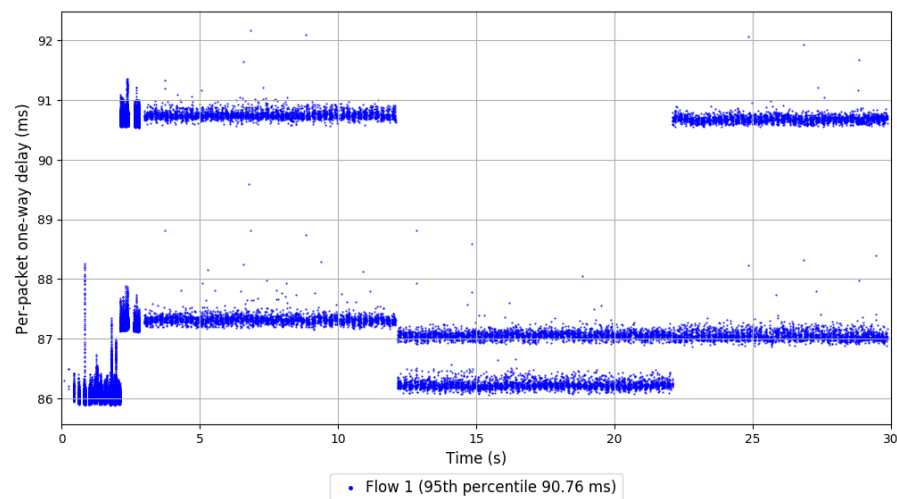
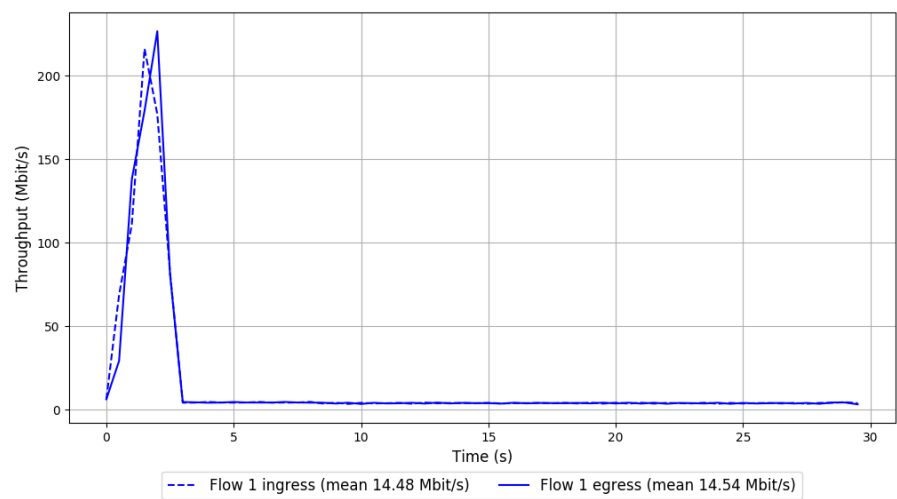
-- Flow 1:

Average throughput: 14.54 Mbit/s

95th percentile per-packet one-way delay: 90.757 ms

Loss rate: 0.18%

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

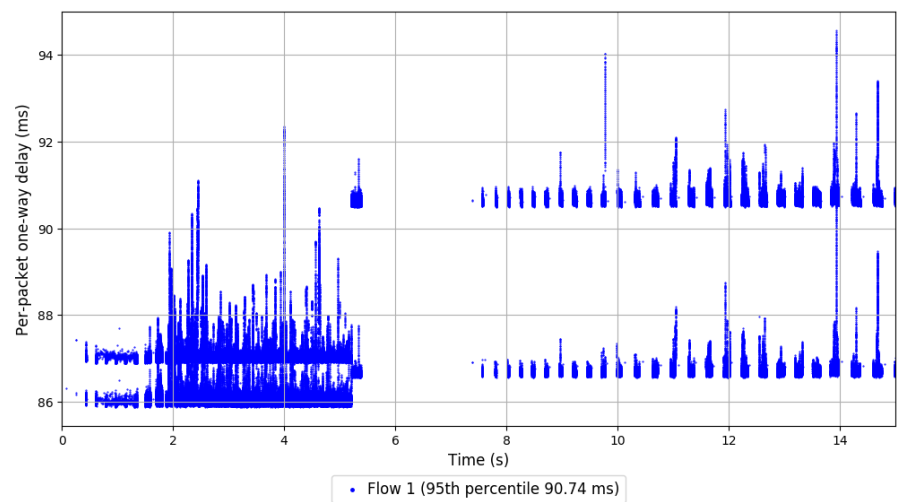
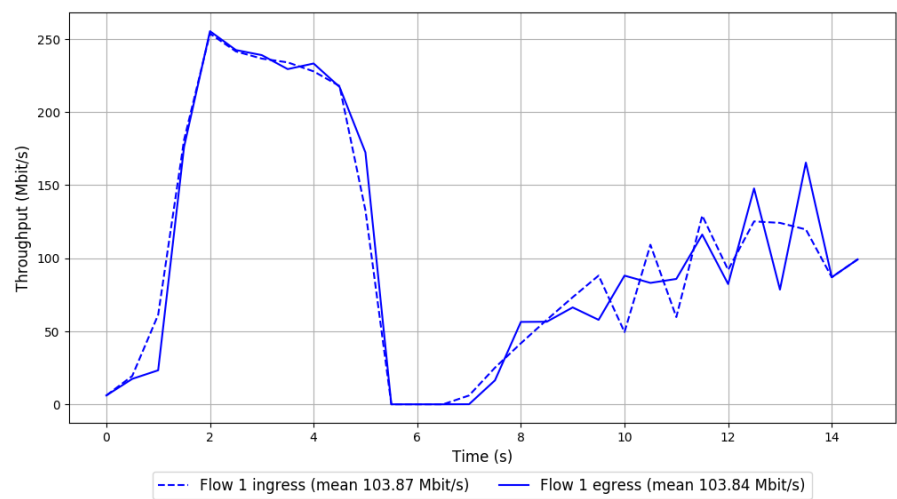


Run 4: Statistics of TaoVA-100x

Start at: 2018-02-15 22:50:03

End at: 2018-02-15 22:50:33

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-15 23:05:36

End at: 2018-02-15 23:06:06

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.87 Mbit/s

95th percentile per-packet one-way delay: 87.210 ms

Loss rate: 0.71%

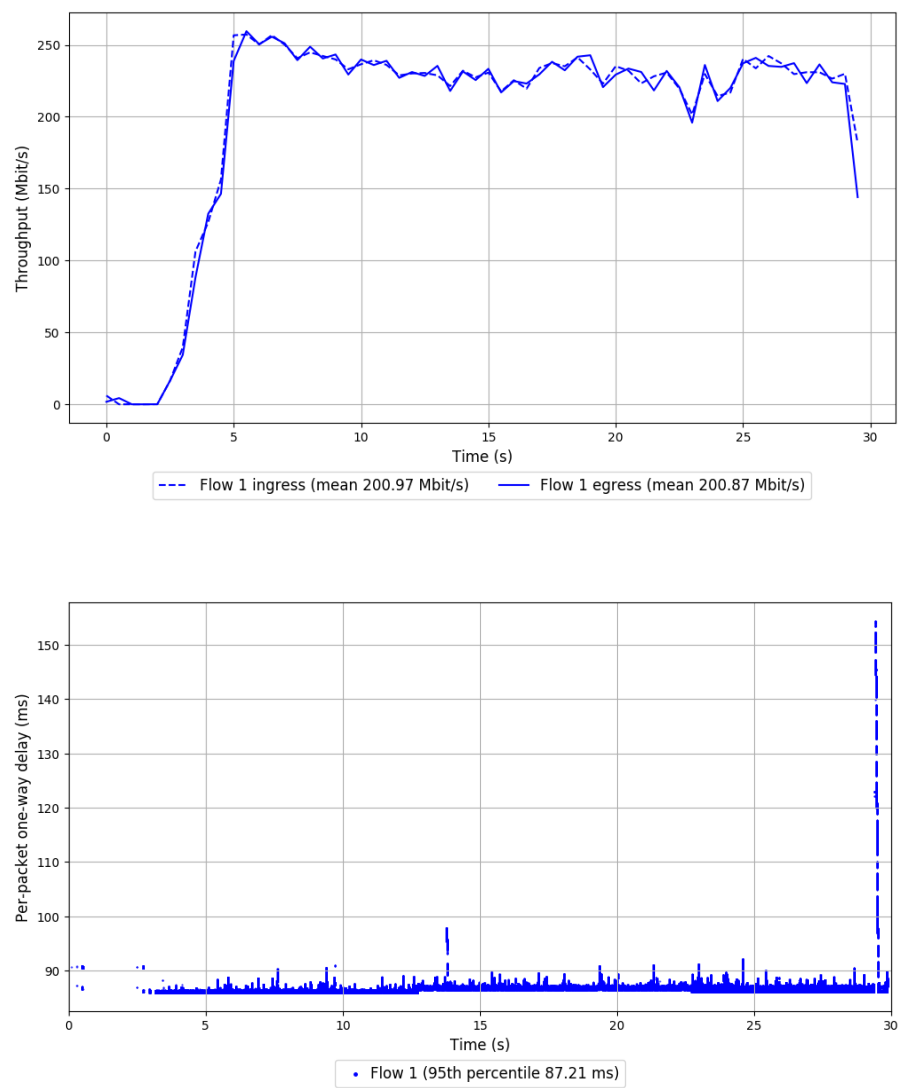
-- Flow 1:

Average throughput: 200.87 Mbit/s

95th percentile per-packet one-way delay: 87.210 ms

Loss rate: 0.71%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-15 23:21:22

End at: 2018-02-15 23:21:52

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.51 Mbit/s

95th percentile per-packet one-way delay: 89.007 ms

Loss rate: 0.07%

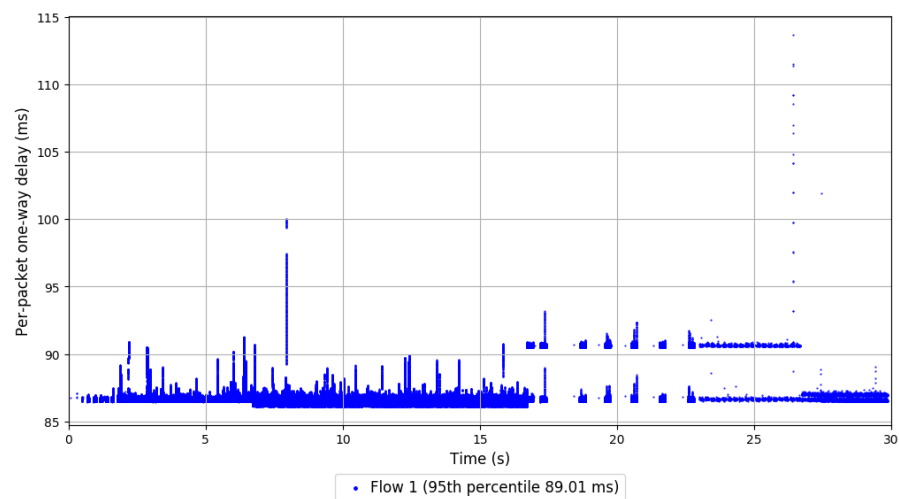
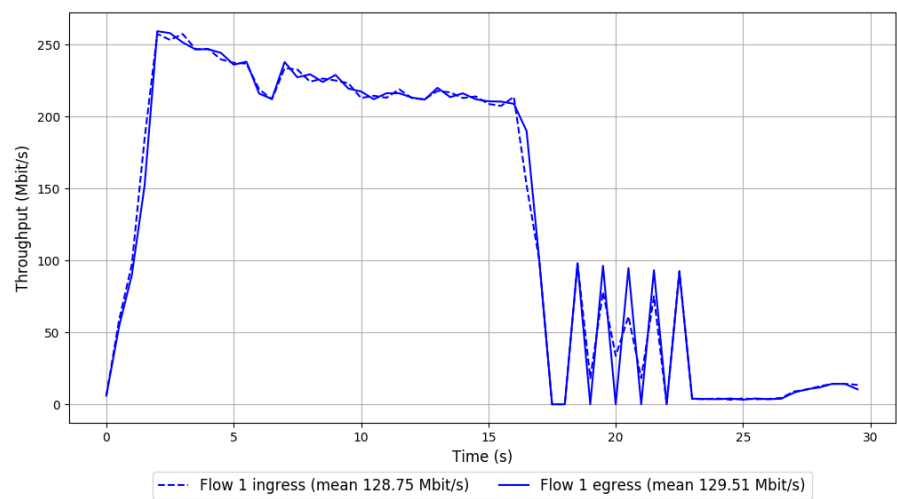
-- Flow 1:

Average throughput: 129.51 Mbit/s

95th percentile per-packet one-way delay: 89.007 ms

Loss rate: 0.07%

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

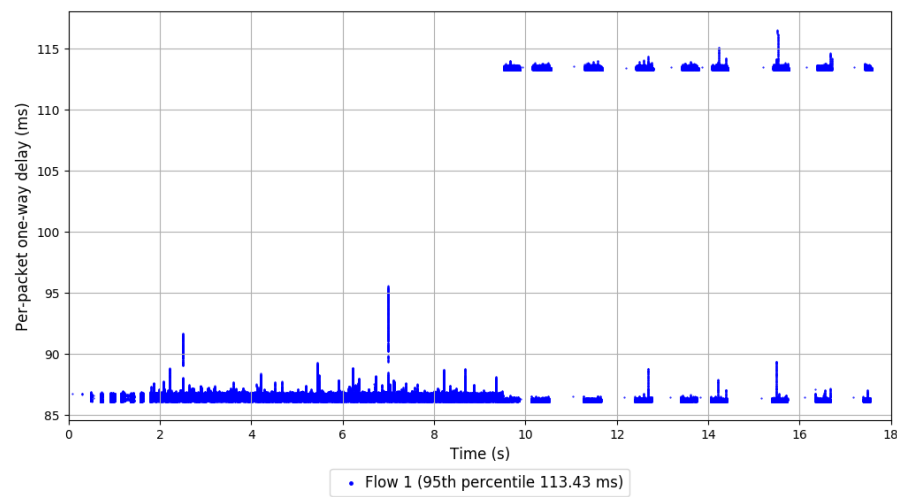
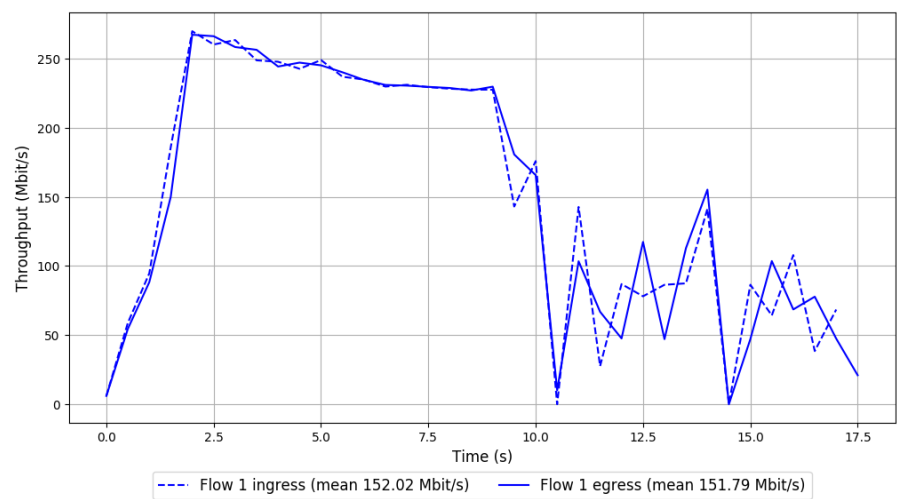


Run 7: Statistics of TaoVA-100x

Start at: 2018-02-15 23:37:09

End at: 2018-02-15 23:37:39

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-15 23:52:40

End at: 2018-02-15 23:53:10

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.81 Mbit/s

95th percentile per-packet one-way delay: 90.068 ms

Loss rate: 1.58%

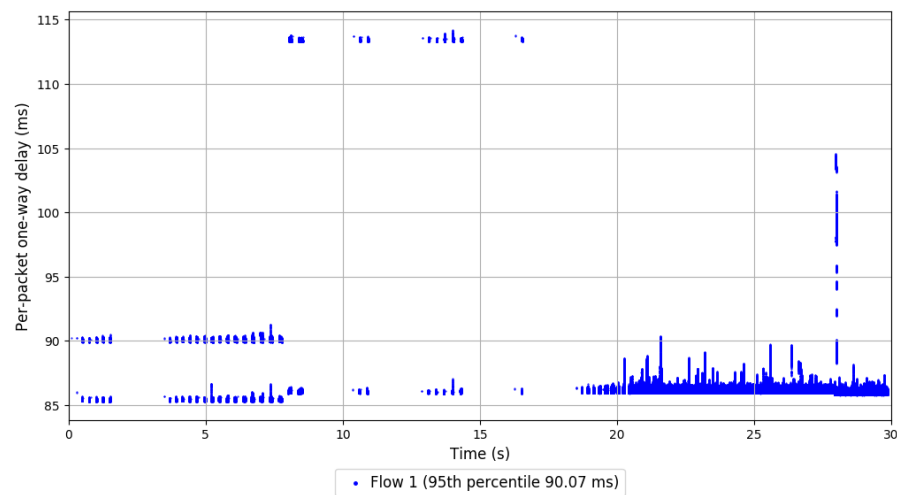
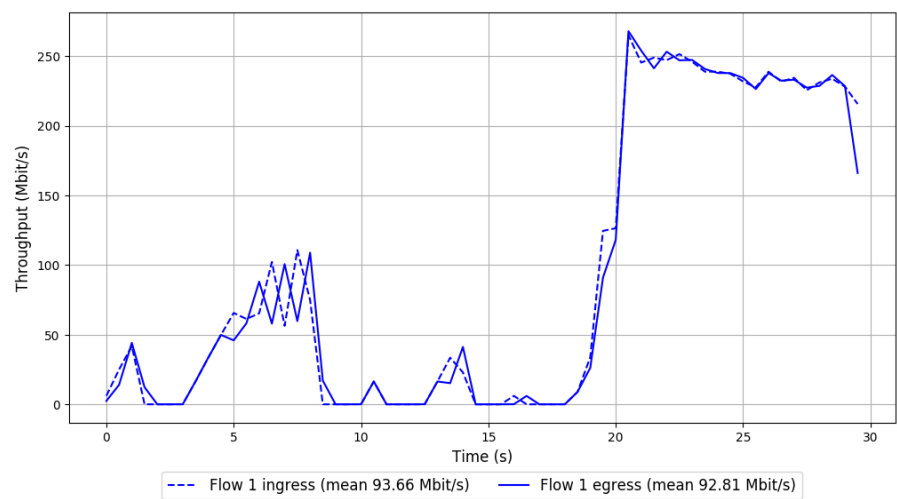
-- Flow 1:

Average throughput: 92.81 Mbit/s

95th percentile per-packet one-way delay: 90.068 ms

Loss rate: 1.58%

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

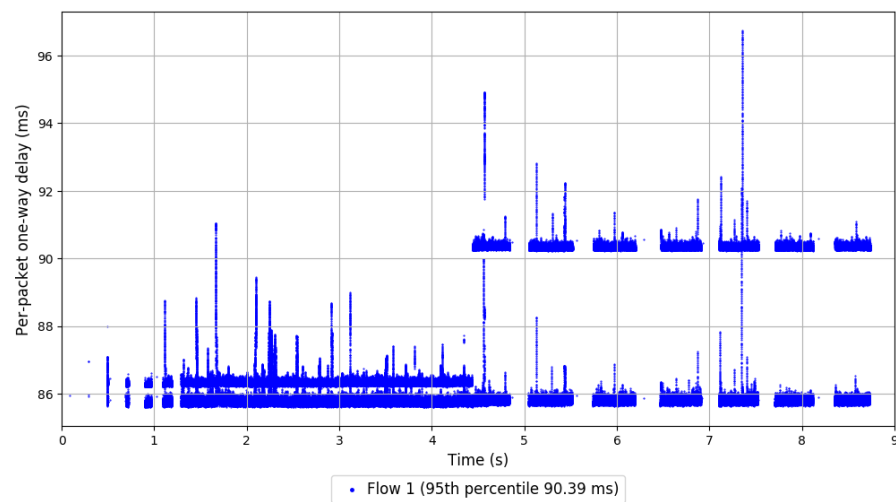
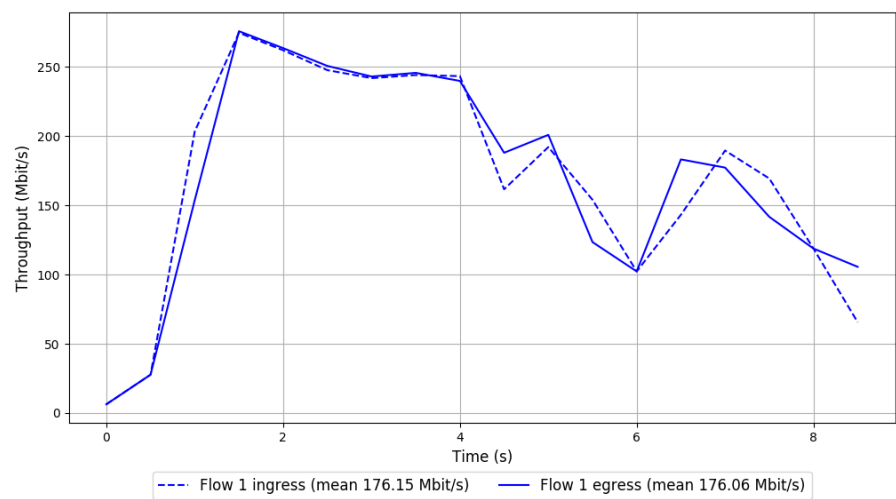


Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 00:07:54

End at: 2018-02-16 00:08:24

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

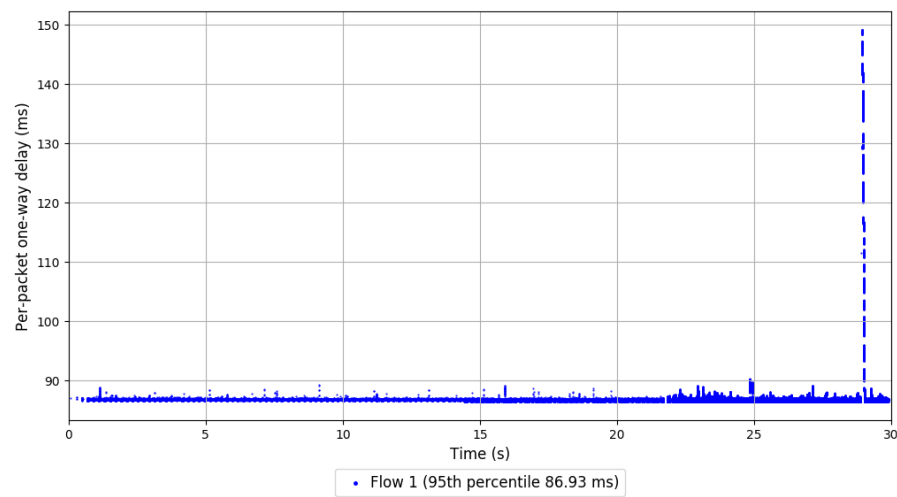
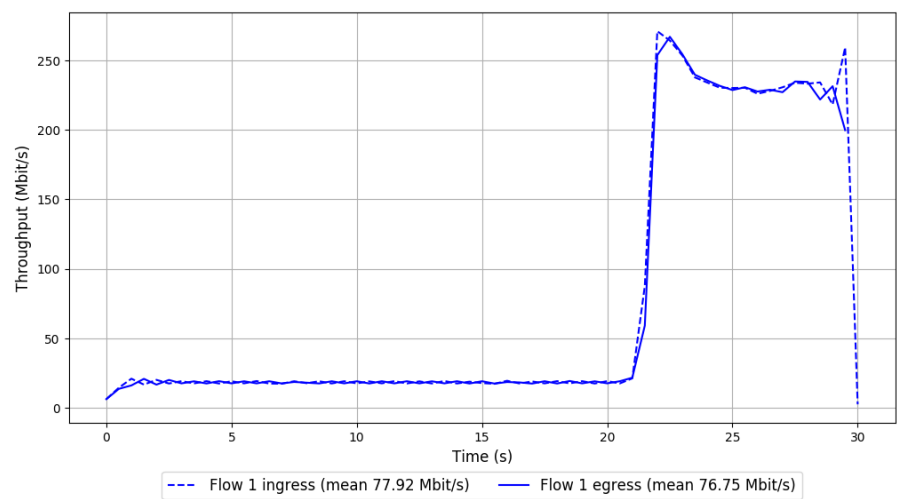


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 00:23:24
End at: 2018-02-16 00:23:54

# Below is generated by plot.py at 2018-02-16 03:43:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 86.932 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 76.75 Mbit/s
95th percentile per-packet one-way delay: 86.932 ms
Loss rate: 2.15%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-15 22:13:44

End at: 2018-02-15 22:14:14

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.82 Mbit/s

95th percentile per-packet one-way delay: 88.155 ms

Loss rate: 0.66%

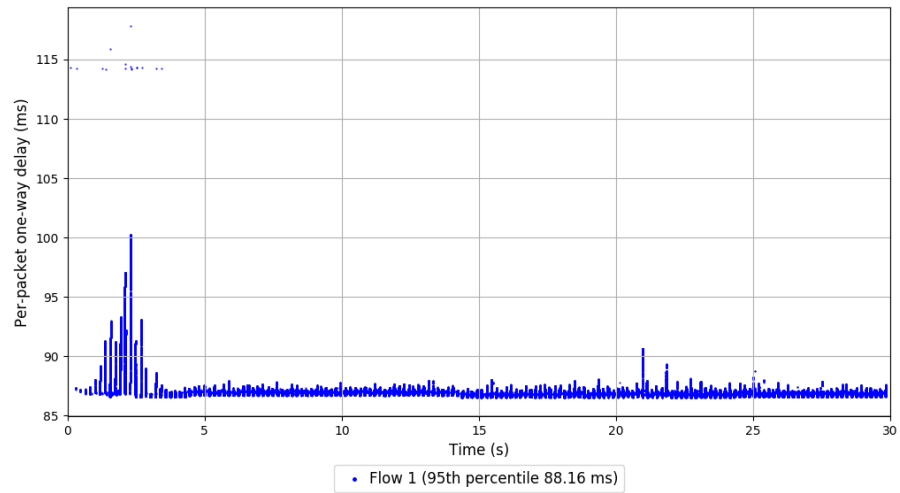
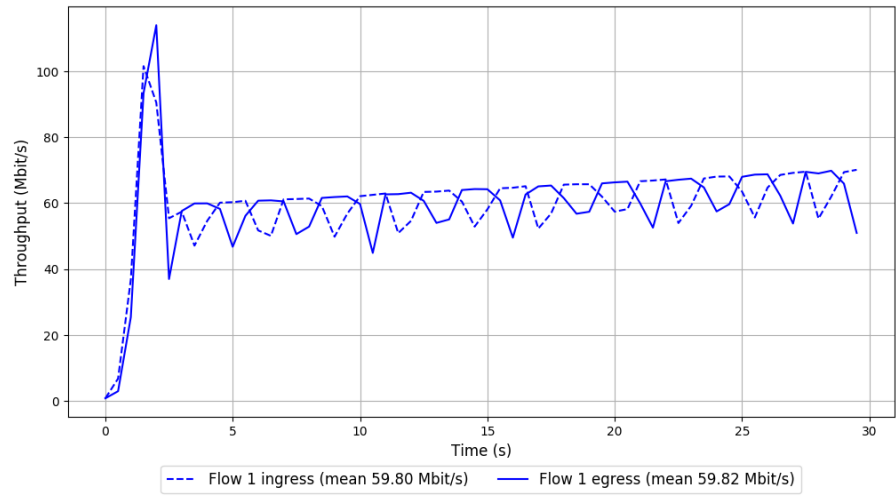
-- Flow 1:

Average throughput: 59.82 Mbit/s

95th percentile per-packet one-way delay: 88.155 ms

Loss rate: 0.66%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-15 22:29:28

End at: 2018-02-15 22:29:58

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.73 Mbit/s

95th percentile per-packet one-way delay: 87.550 ms

Loss rate: 0.63%

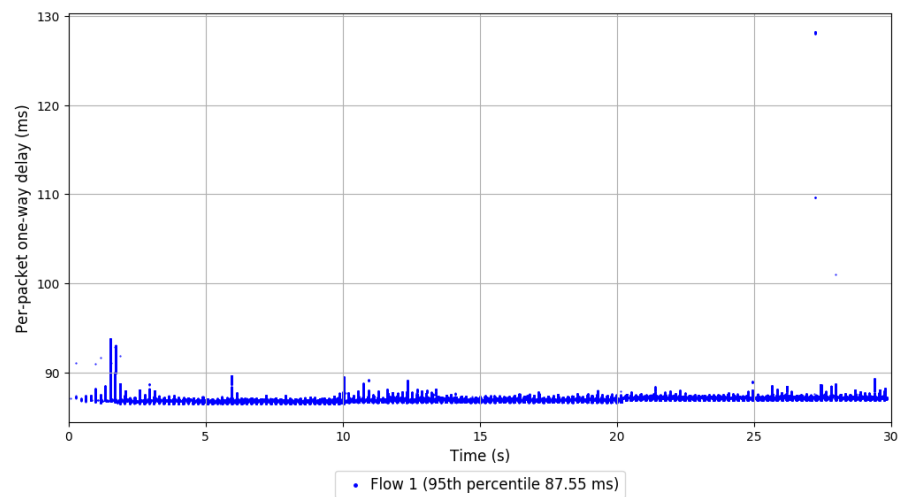
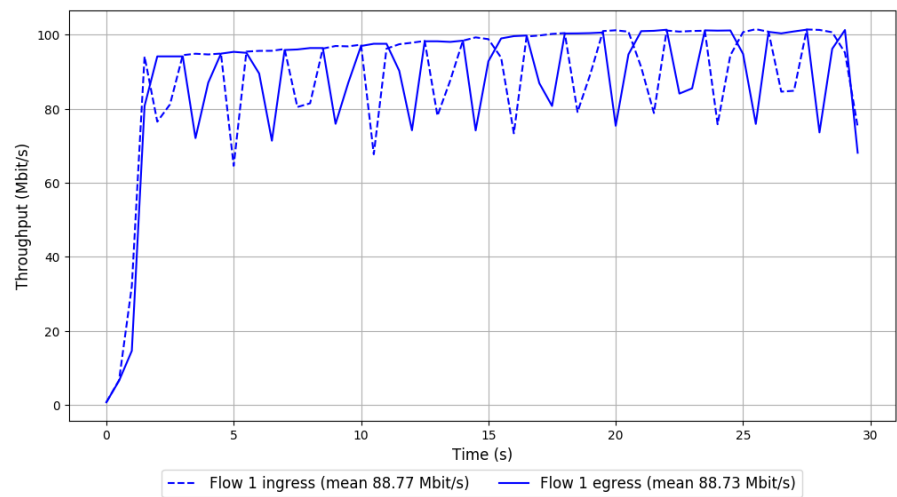
-- Flow 1:

Average throughput: 88.73 Mbit/s

95th percentile per-packet one-way delay: 87.550 ms

Loss rate: 0.63%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-15 22:45:17

End at: 2018-02-15 22:45:47

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.28 Mbit/s

95th percentile per-packet one-way delay: 88.330 ms

Loss rate: 0.56%

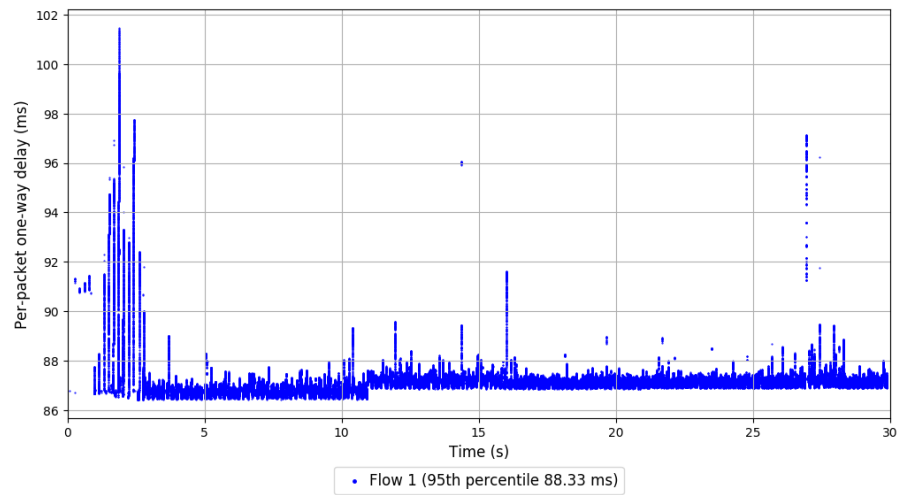
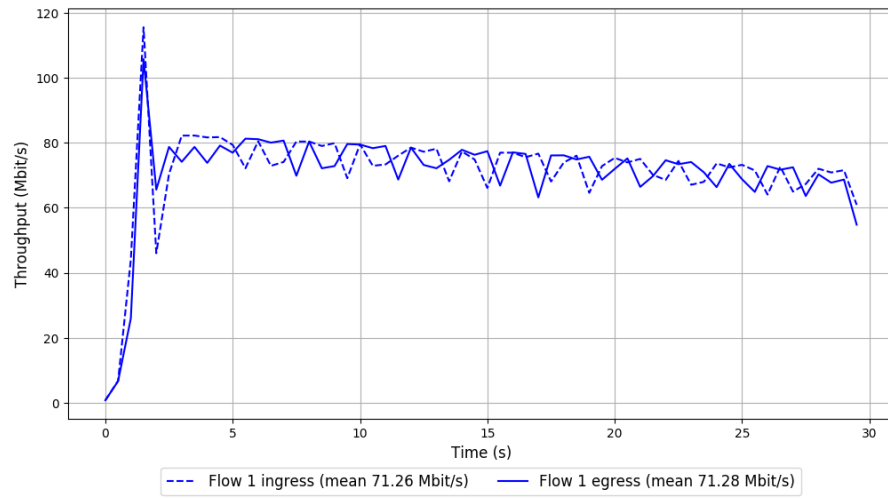
-- Flow 1:

Average throughput: 71.28 Mbit/s

95th percentile per-packet one-way delay: 88.330 ms

Loss rate: 0.56%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-15 23:00:41

End at: 2018-02-15 23:01:11

Below is generated by plot.py at 2018-02-16 03:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.35 Mbit/s

95th percentile per-packet one-way delay: 91.531 ms

Loss rate: 0.70%

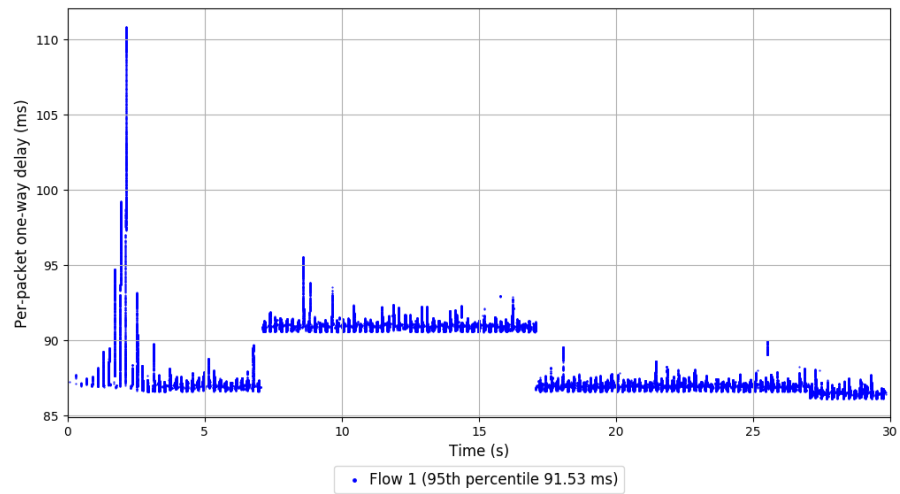
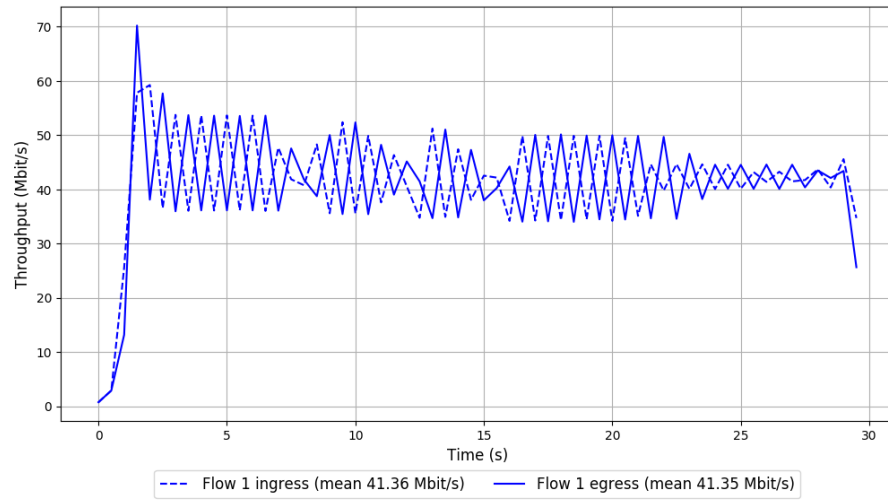
-- Flow 1:

Average throughput: 41.35 Mbit/s

95th percentile per-packet one-way delay: 91.531 ms

Loss rate: 0.70%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-15 23:16:27

End at: 2018-02-15 23:16:57

Below is generated by plot.py at 2018-02-16 03:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 87.589 ms

Loss rate: 0.74%

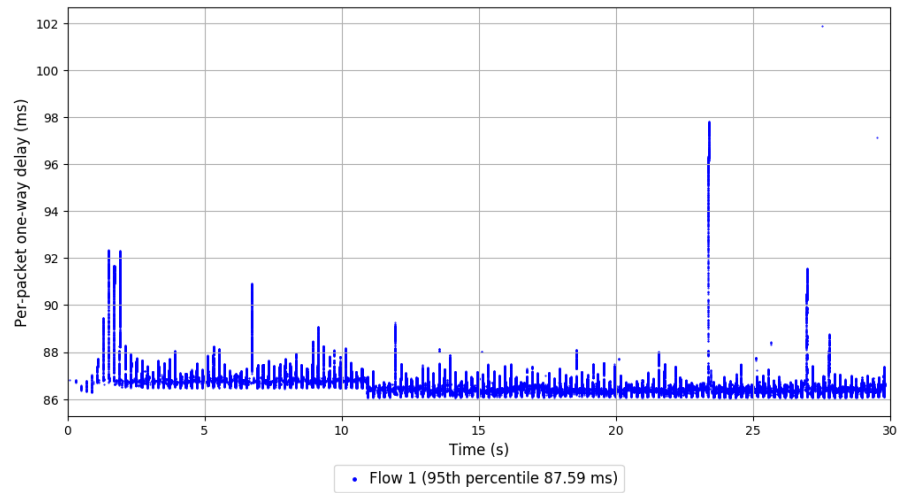
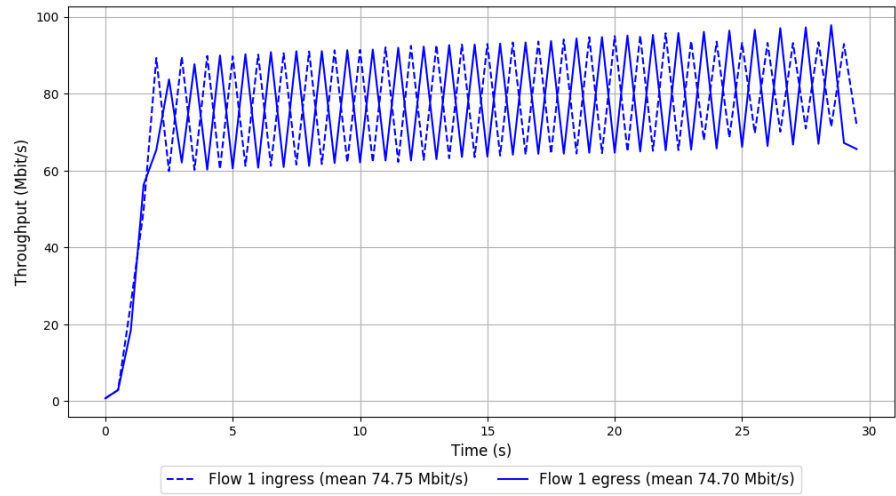
-- Flow 1:

Average throughput: 74.70 Mbit/s

95th percentile per-packet one-way delay: 87.589 ms

Loss rate: 0.74%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-15 23:32:17

End at: 2018-02-15 23:32:48

Below is generated by plot.py at 2018-02-16 03:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 88.038 ms

Loss rate: 0.75%

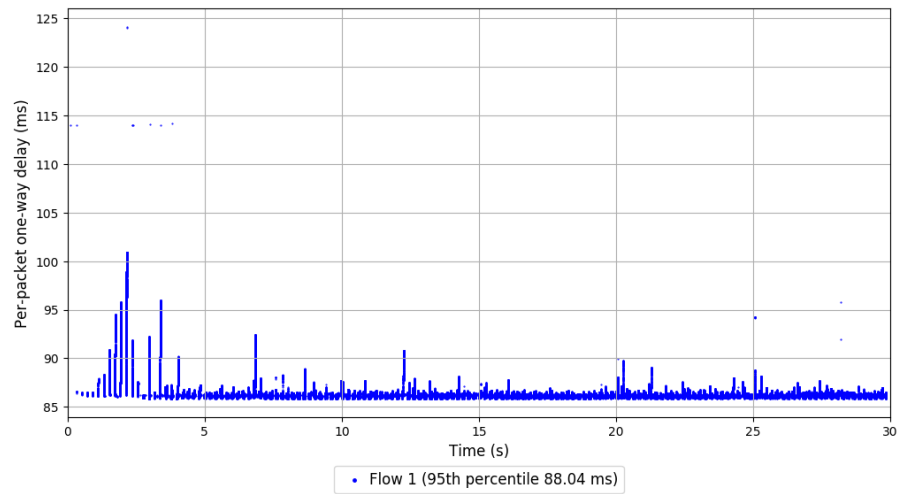
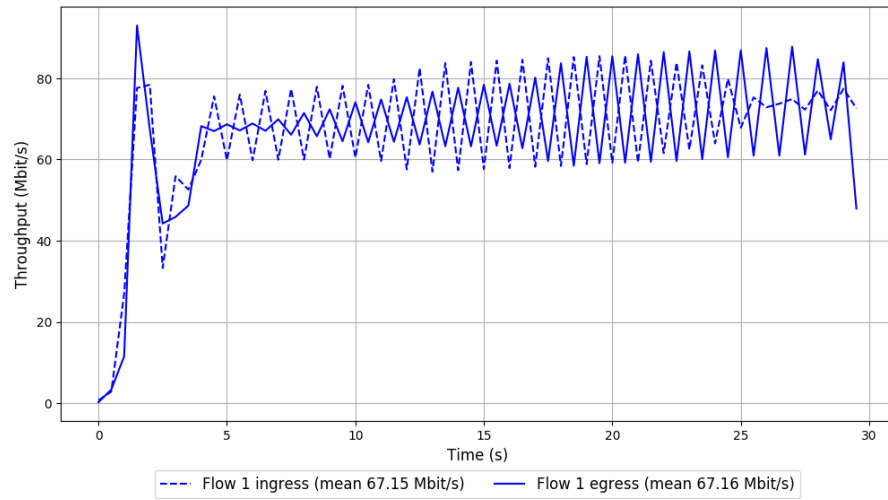
-- Flow 1:

Average throughput: 67.16 Mbit/s

95th percentile per-packet one-way delay: 88.038 ms

Loss rate: 0.75%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-15 23:47:54

End at: 2018-02-15 23:48:24

Below is generated by plot.py at 2018-02-16 03:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 113.853 ms

Loss rate: 0.63%

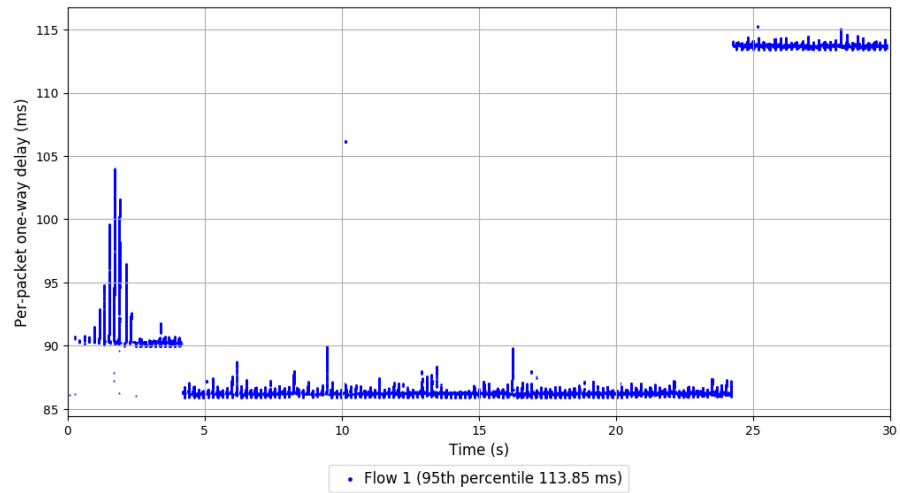
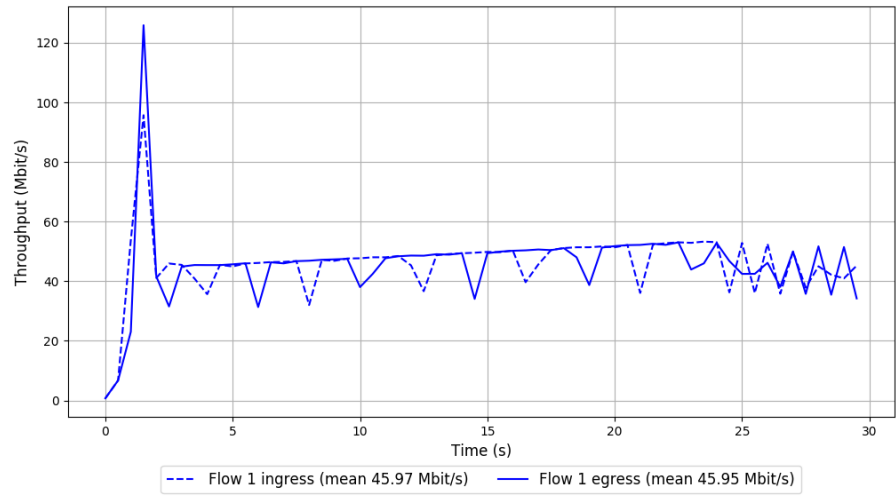
-- Flow 1:

Average throughput: 45.95 Mbit/s

95th percentile per-packet one-way delay: 113.853 ms

Loss rate: 0.63%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 00:03:15

End at: 2018-02-16 00:03:45

Below is generated by plot.py at 2018-02-16 03:43:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.59 Mbit/s

95th percentile per-packet one-way delay: 86.888 ms

Loss rate: 0.73%

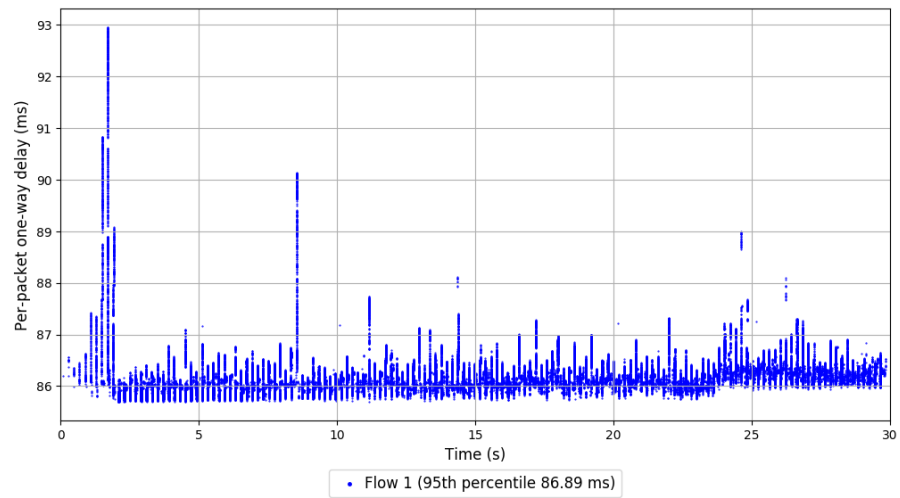
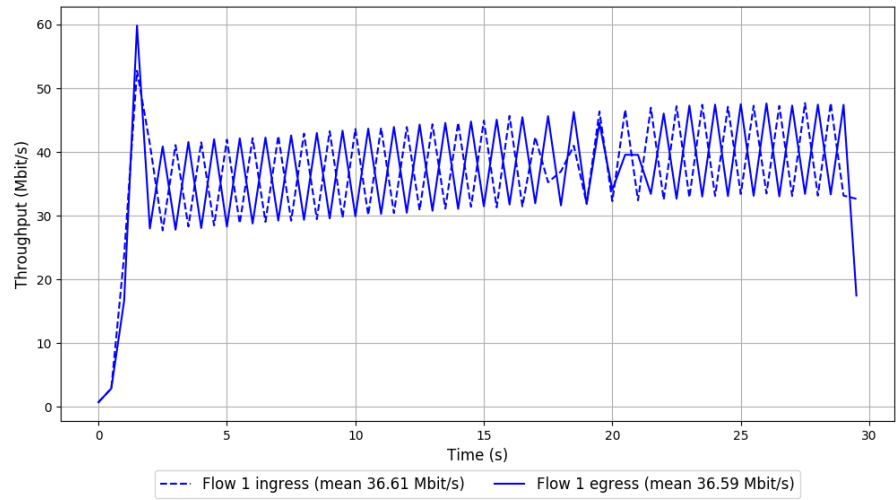
-- Flow 1:

Average throughput: 36.59 Mbit/s

95th percentile per-packet one-way delay: 86.888 ms

Loss rate: 0.73%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-16 00:18:35

End at: 2018-02-16 00:19:05

Below is generated by plot.py at 2018-02-16 03:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 87.470 ms

Loss rate: 0.61%

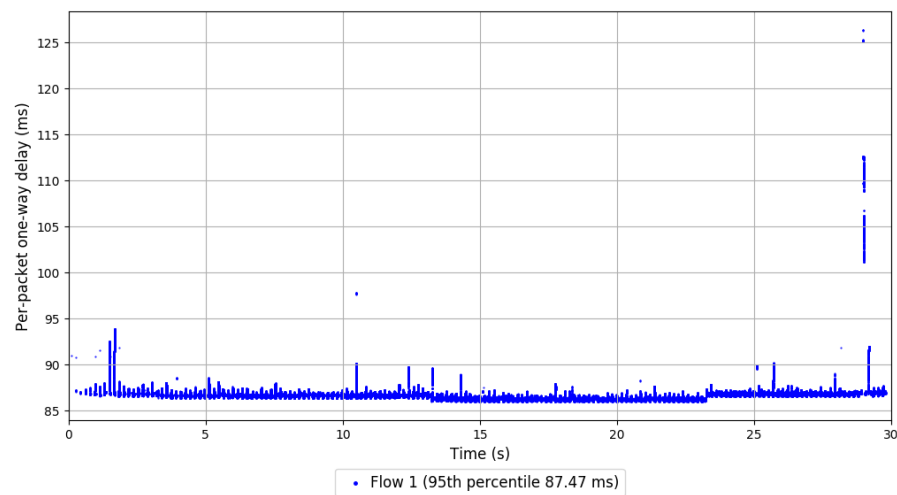
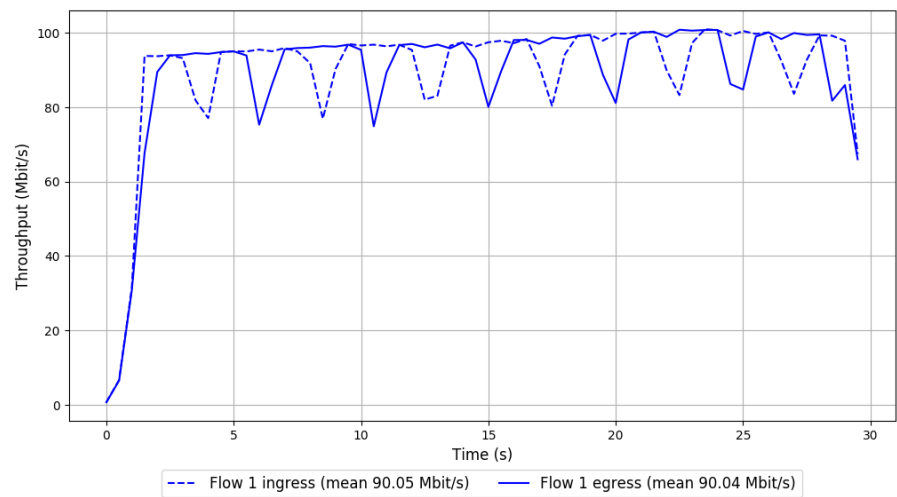
-- Flow 1:

Average throughput: 90.04 Mbit/s

95th percentile per-packet one-way delay: 87.470 ms

Loss rate: 0.61%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 00:34:04

End at: 2018-02-16 00:34:34

Below is generated by plot.py at 2018-02-16 03:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.23 Mbit/s

95th percentile per-packet one-way delay: 114.492 ms

Loss rate: 0.53%

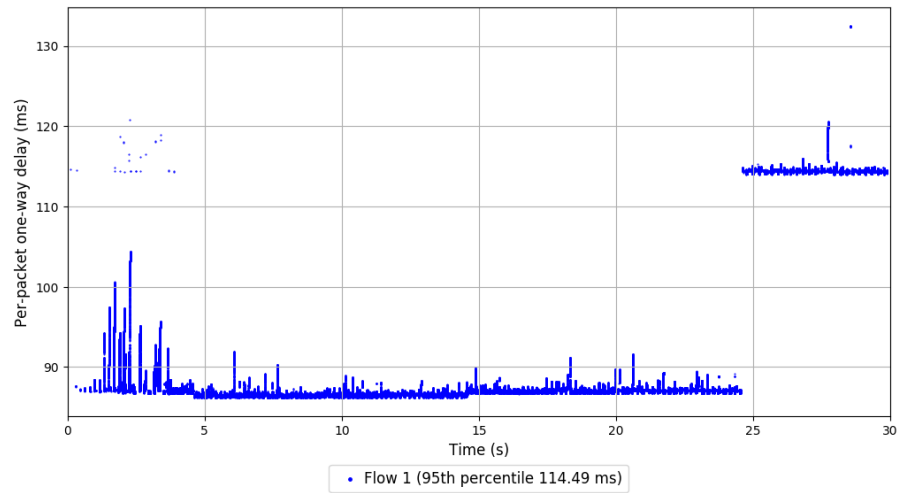
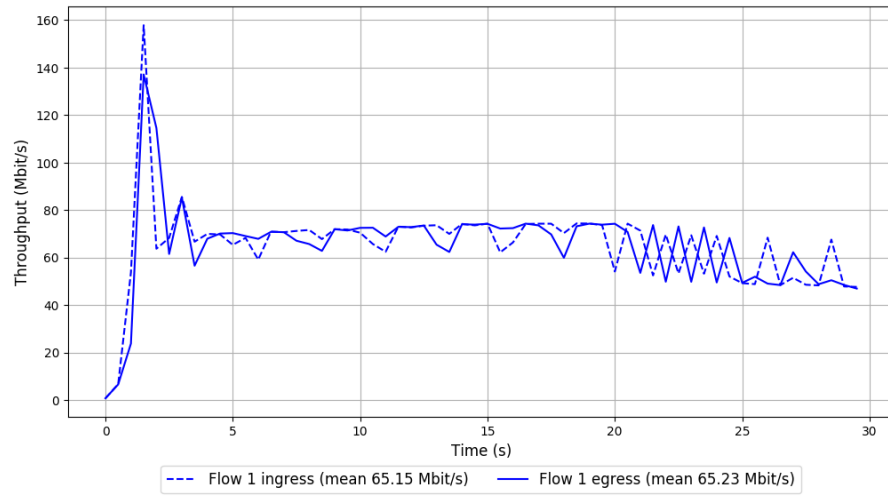
-- Flow 1:

Average throughput: 65.23 Mbit/s

95th percentile per-packet one-way delay: 114.492 ms

Loss rate: 0.53%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-15 22:09:01

End at: 2018-02-15 22:09:31

Below is generated by plot.py at 2018-02-16 03:46:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.00 Mbit/s

95th percentile per-packet one-way delay: 153.062 ms

Loss rate: 1.04%

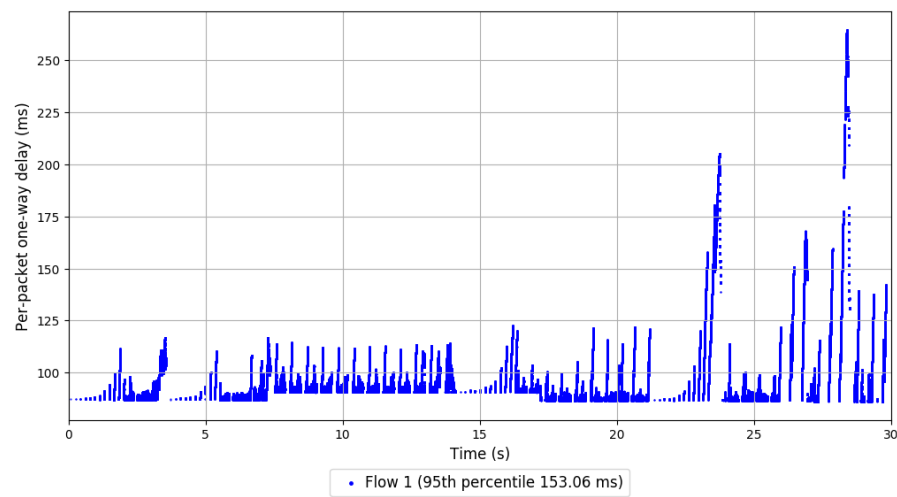
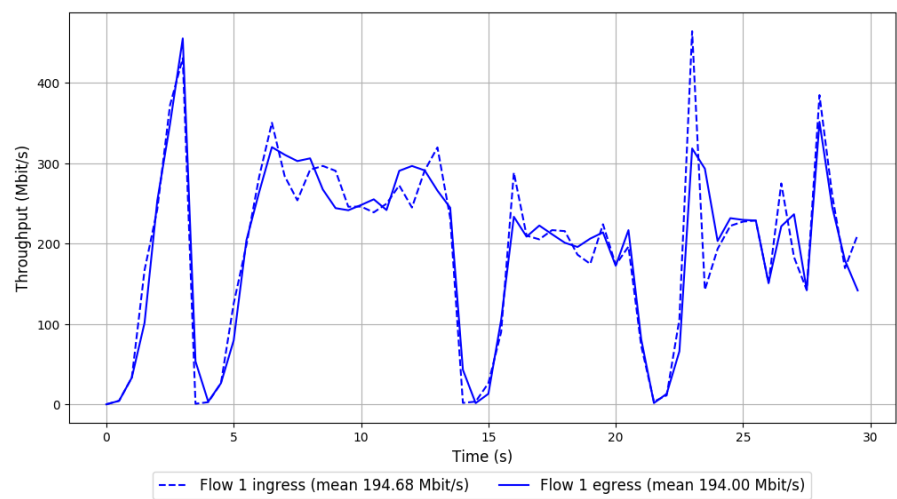
-- Flow 1:

Average throughput: 194.00 Mbit/s

95th percentile per-packet one-way delay: 153.062 ms

Loss rate: 1.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-15 22:24:38

End at: 2018-02-15 22:25:08

Below is generated by plot.py at 2018-02-16 03:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.42 Mbit/s

95th percentile per-packet one-way delay: 147.315 ms

Loss rate: 1.68%

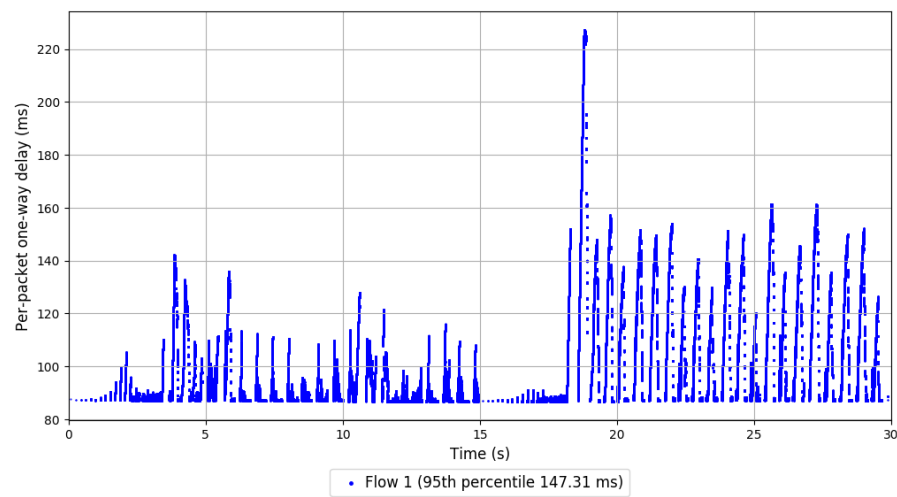
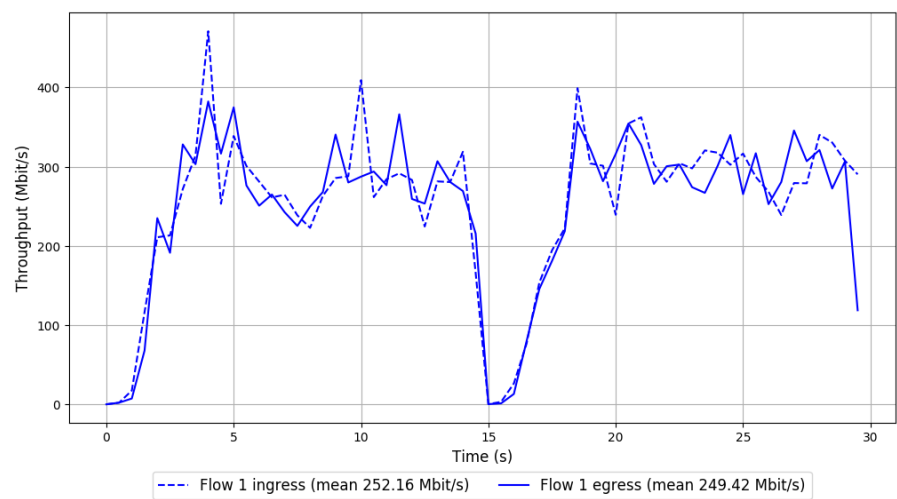
-- Flow 1:

Average throughput: 249.42 Mbit/s

95th percentile per-packet one-way delay: 147.315 ms

Loss rate: 1.68%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-15 22:40:33

End at: 2018-02-15 22:41:03

Below is generated by plot.py at 2018-02-16 03:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.34 Mbit/s

95th percentile per-packet one-way delay: 114.255 ms

Loss rate: 0.00%

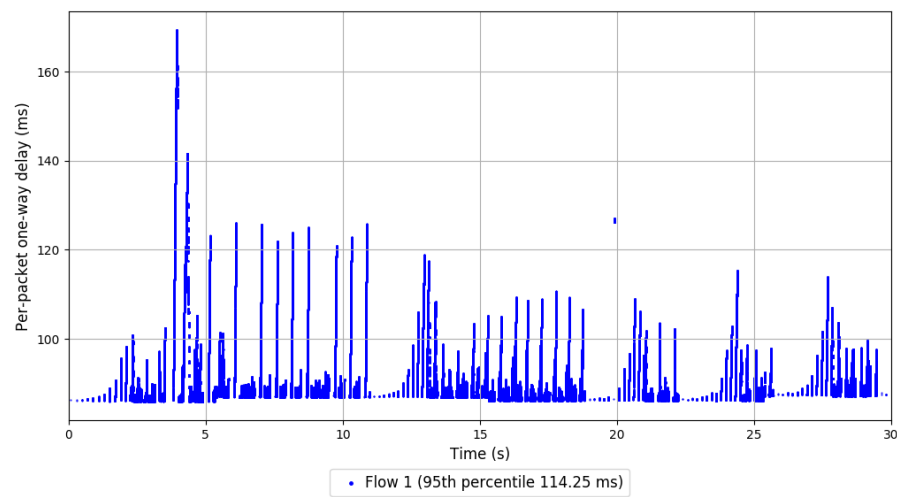
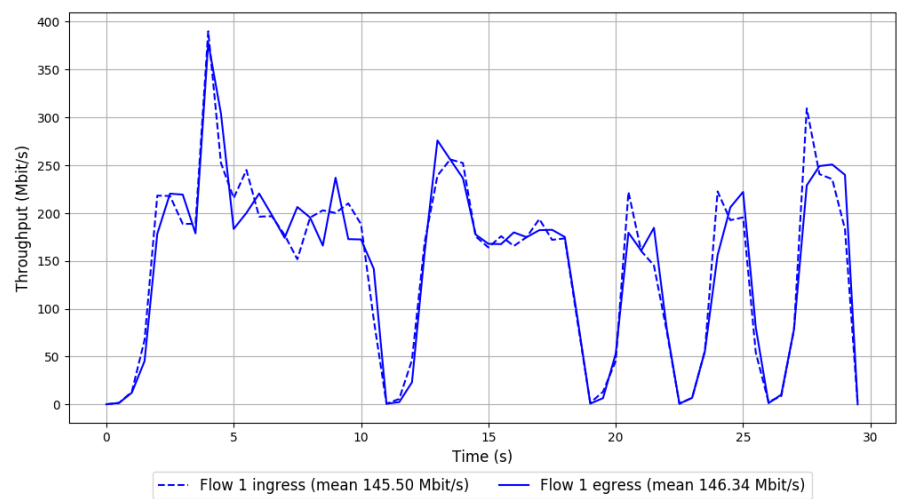
-- Flow 1:

Average throughput: 146.34 Mbit/s

95th percentile per-packet one-way delay: 114.255 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-15 22:55:54

End at: 2018-02-15 22:56:24

Below is generated by plot.py at 2018-02-16 03:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.88 Mbit/s

95th percentile per-packet one-way delay: 121.638 ms

Loss rate: 0.97%

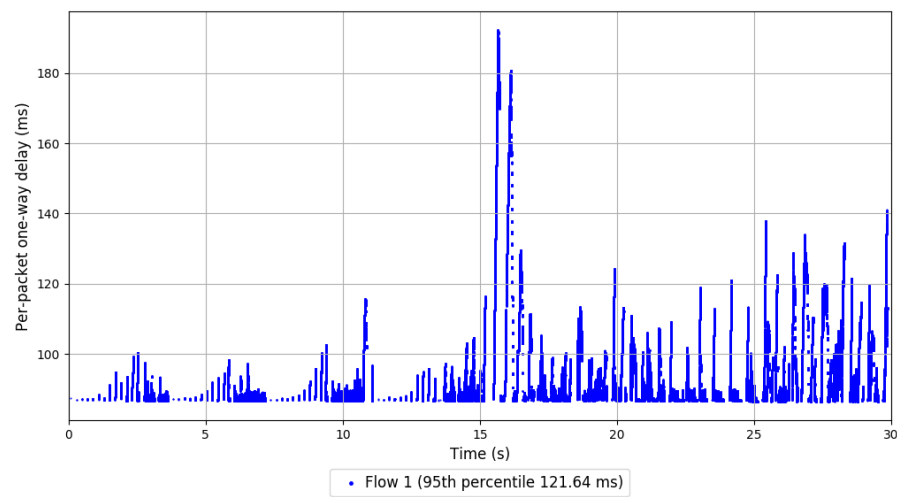
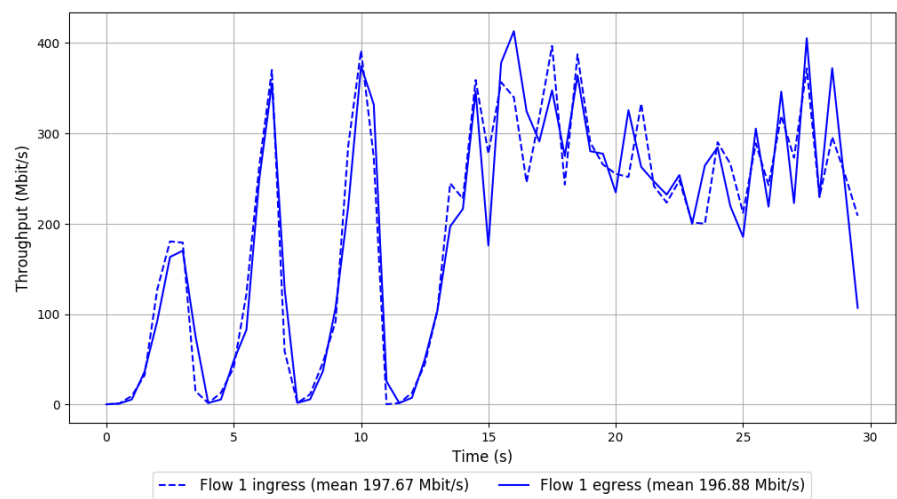
-- Flow 1:

Average throughput: 196.88 Mbit/s

95th percentile per-packet one-way delay: 121.638 ms

Loss rate: 0.97%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-15 23:11:39

End at: 2018-02-15 23:12:09

Below is generated by plot.py at 2018-02-16 03:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.88 Mbit/s

95th percentile per-packet one-way delay: 129.355 ms

Loss rate: 0.51%

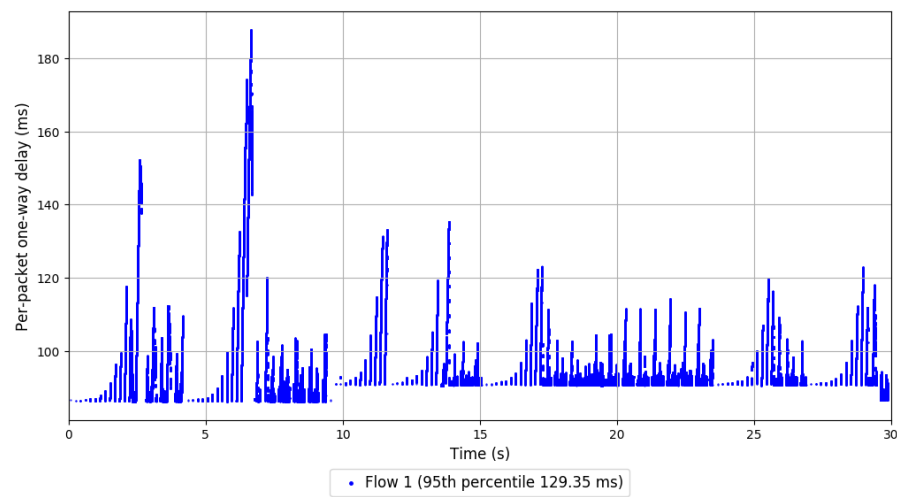
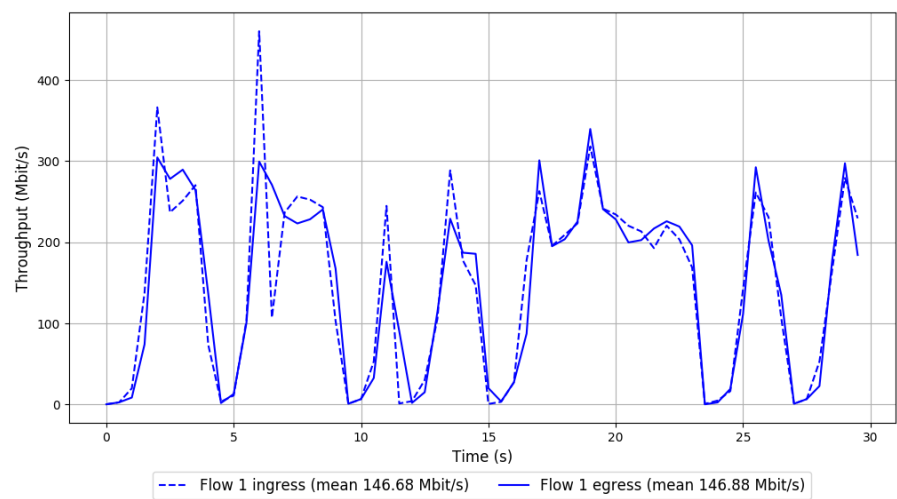
-- Flow 1:

Average throughput: 146.88 Mbit/s

95th percentile per-packet one-way delay: 129.355 ms

Loss rate: 0.51%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-15 23:27:27

End at: 2018-02-15 23:27:57

Below is generated by plot.py at 2018-02-16 03:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.99 Mbit/s

95th percentile per-packet one-way delay: 163.405 ms

Loss rate: 0.52%

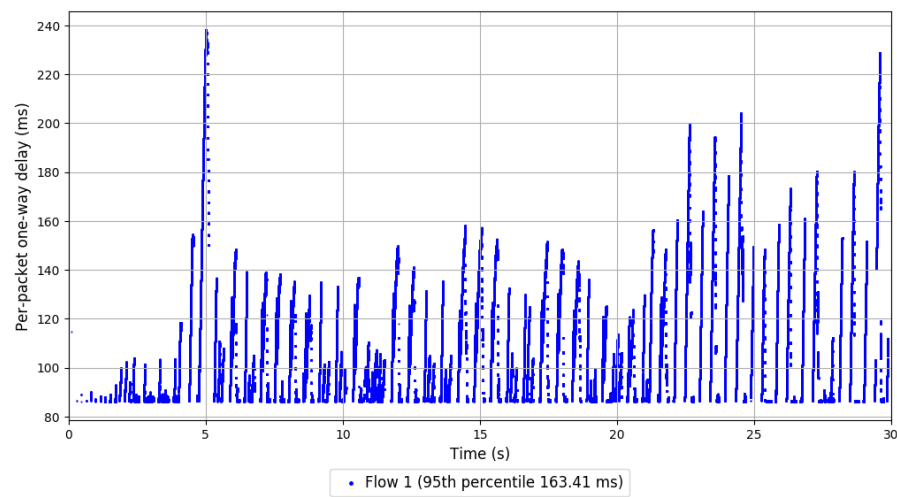
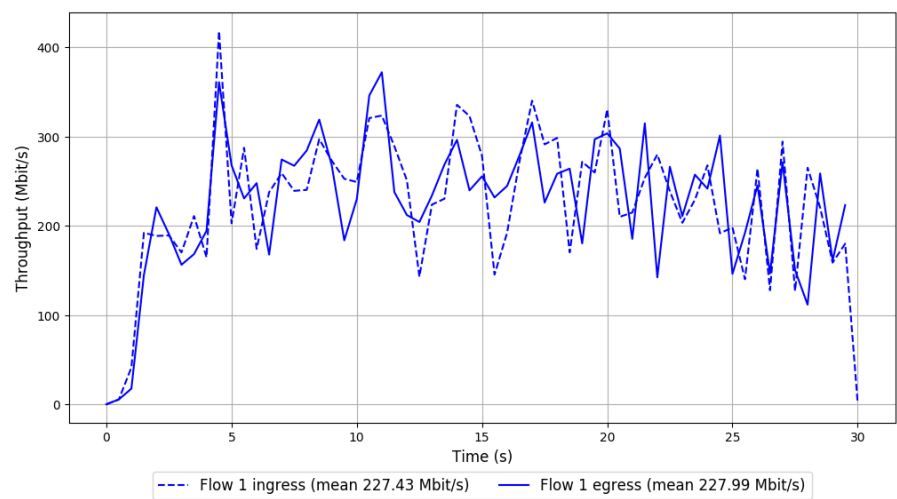
-- Flow 1:

Average throughput: 227.99 Mbit/s

95th percentile per-packet one-way delay: 163.405 ms

Loss rate: 0.52%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-15 23:43:09

End at: 2018-02-15 23:43:39

Below is generated by plot.py at 2018-02-16 03:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.98 Mbit/s

95th percentile per-packet one-way delay: 177.917 ms

Loss rate: 1.14%

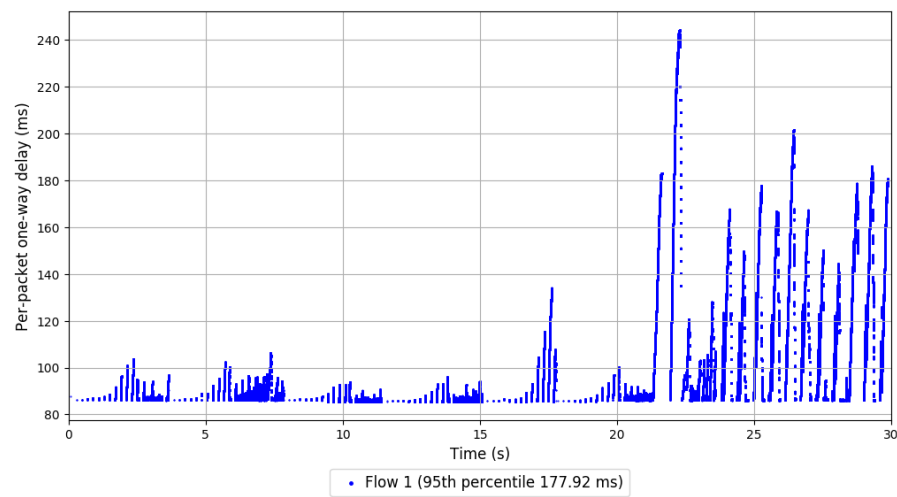
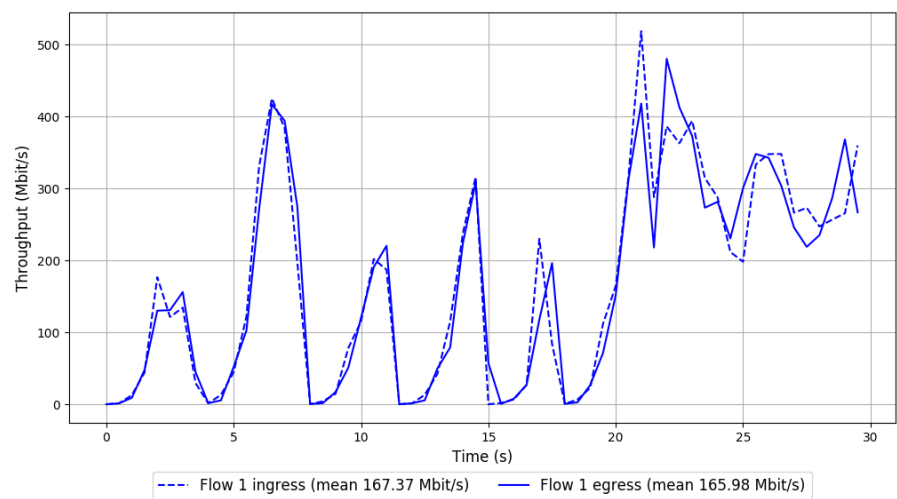
-- Flow 1:

Average throughput: 165.98 Mbit/s

95th percentile per-packet one-way delay: 177.917 ms

Loss rate: 1.14%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-15 23:58:32

End at: 2018-02-15 23:59:02

Below is generated by plot.py at 2018-02-16 03:47:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.56 Mbit/s

95th percentile per-packet one-way delay: 165.771 ms

Loss rate: 1.44%

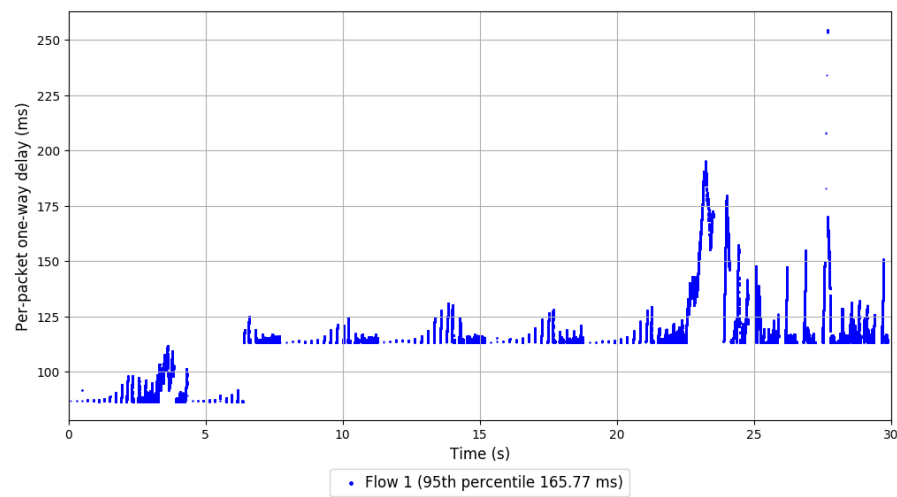
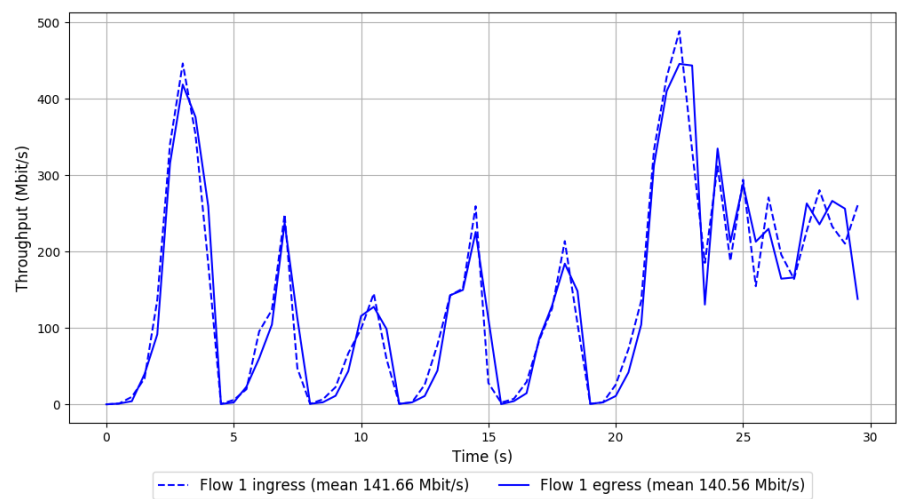
-- Flow 1:

Average throughput: 140.56 Mbit/s

95th percentile per-packet one-way delay: 165.771 ms

Loss rate: 1.44%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-16 00:13:42

End at: 2018-02-16 00:14:12

Below is generated by plot.py at 2018-02-16 03:51:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.40 Mbit/s

95th percentile per-packet one-way delay: 295.957 ms

Loss rate: 15.23%

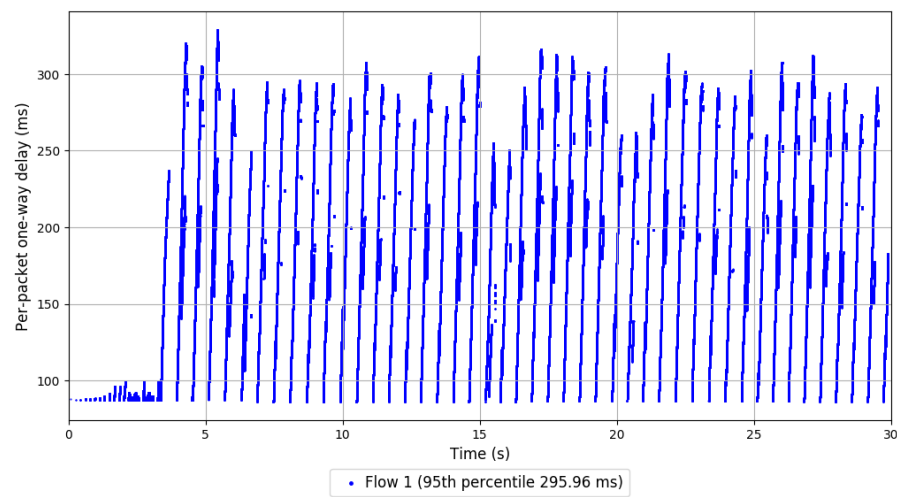
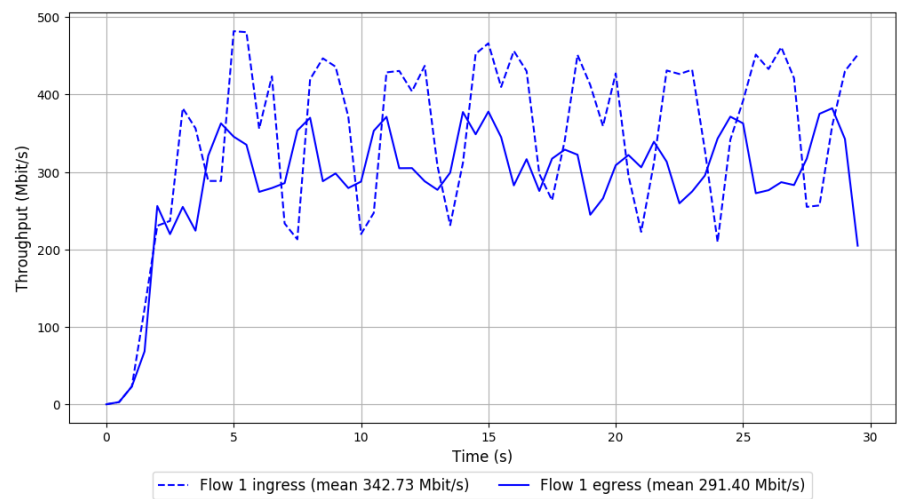
-- Flow 1:

Average throughput: 291.40 Mbit/s

95th percentile per-packet one-way delay: 295.957 ms

Loss rate: 15.23%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-16 00:29:13

End at: 2018-02-16 00:29:43

Below is generated by plot.py at 2018-02-16 03:51:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.25 Mbit/s

95th percentile per-packet one-way delay: 125.499 ms

Loss rate: 0.49%

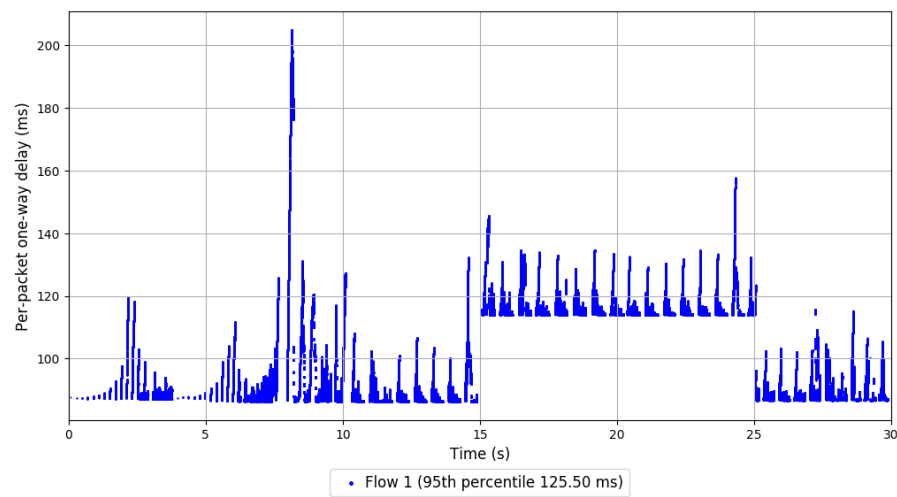
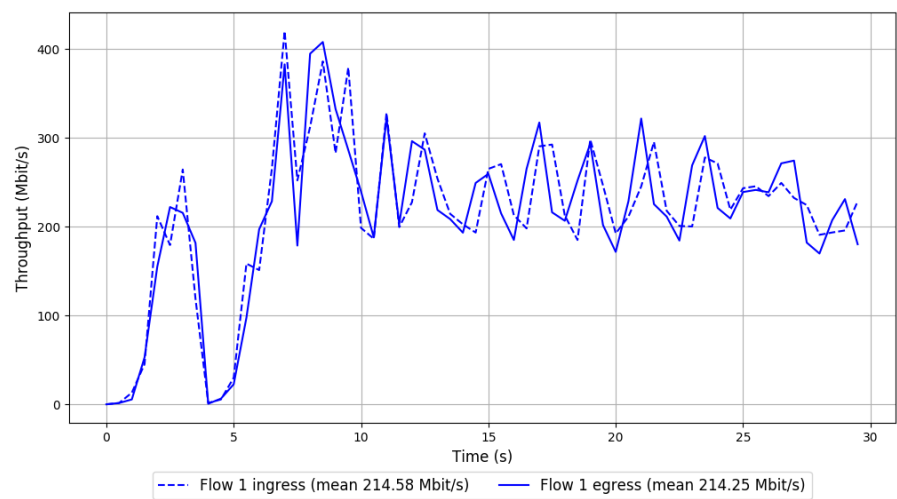
-- Flow 1:

Average throughput: 214.25 Mbit/s

95th percentile per-packet one-way delay: 125.499 ms

Loss rate: 0.49%

Run 10: Report of Verus — Data Link

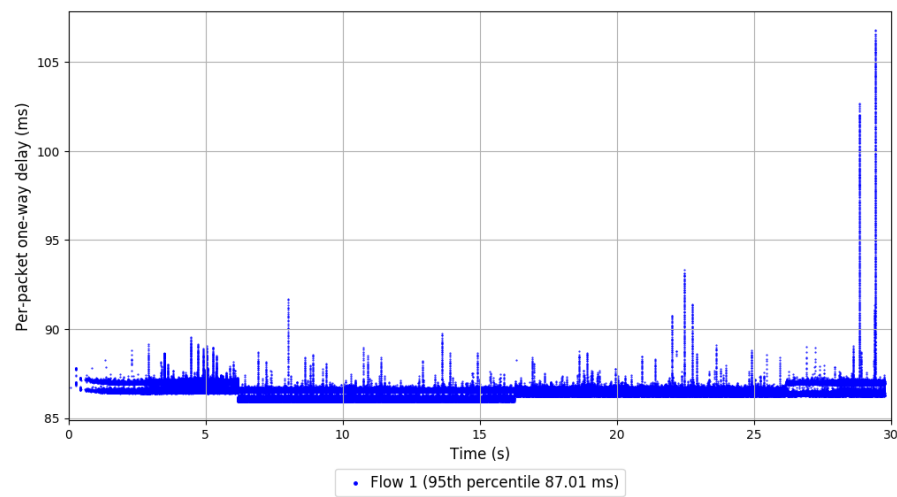
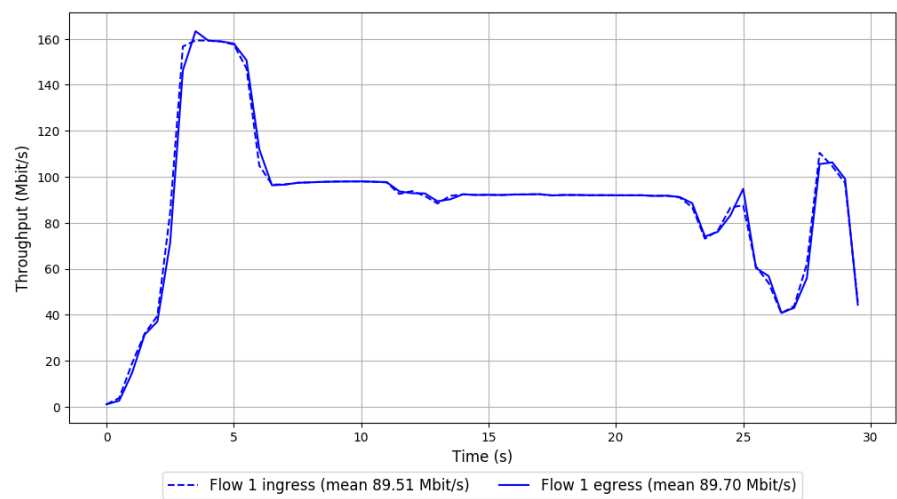


```
Run 1: Statistics of Copa

Start at: 2018-02-15 21:59:52
End at: 2018-02-15 22:00:22

# Below is generated by plot.py at 2018-02-16 03:51:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 87.007 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 89.70 Mbit/s
95th percentile per-packet one-way delay: 87.007 ms
Loss rate: 0.32%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-15 22:15:32

End at: 2018-02-15 22:16:02

Below is generated by plot.py at 2018-02-16 03:51:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.37 Mbit/s

95th percentile per-packet one-way delay: 87.152 ms

Loss rate: 0.39%

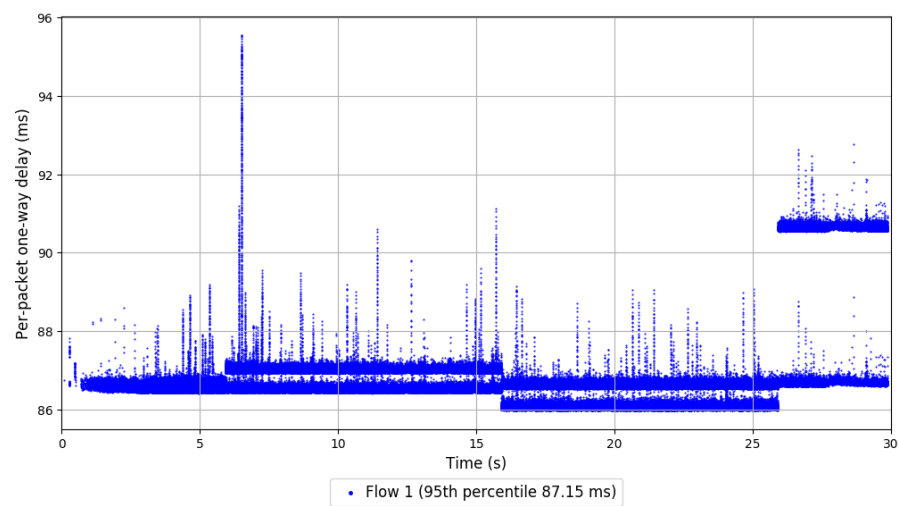
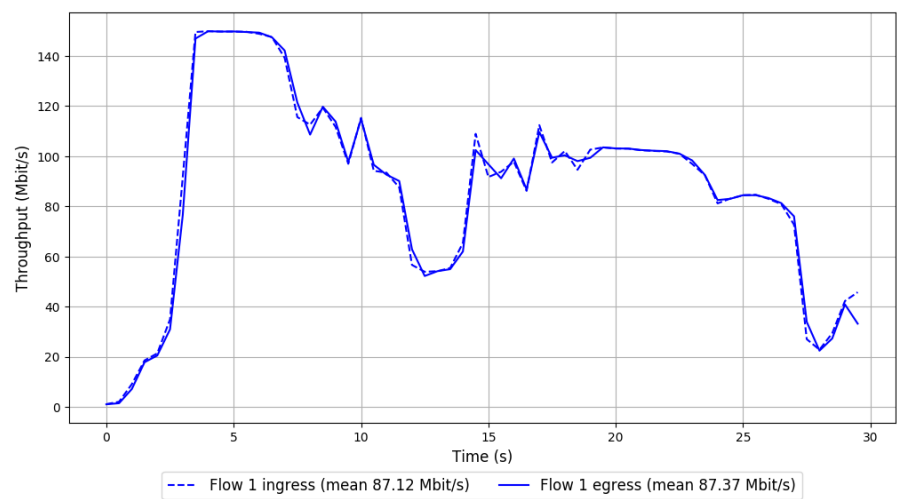
-- Flow 1:

Average throughput: 87.37 Mbit/s

95th percentile per-packet one-way delay: 87.152 ms

Loss rate: 0.39%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-15 22:31:18

End at: 2018-02-15 22:31:48

Below is generated by plot.py at 2018-02-16 04:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.95 Mbit/s

95th percentile per-packet one-way delay: 258.925 ms

Loss rate: 37.13%

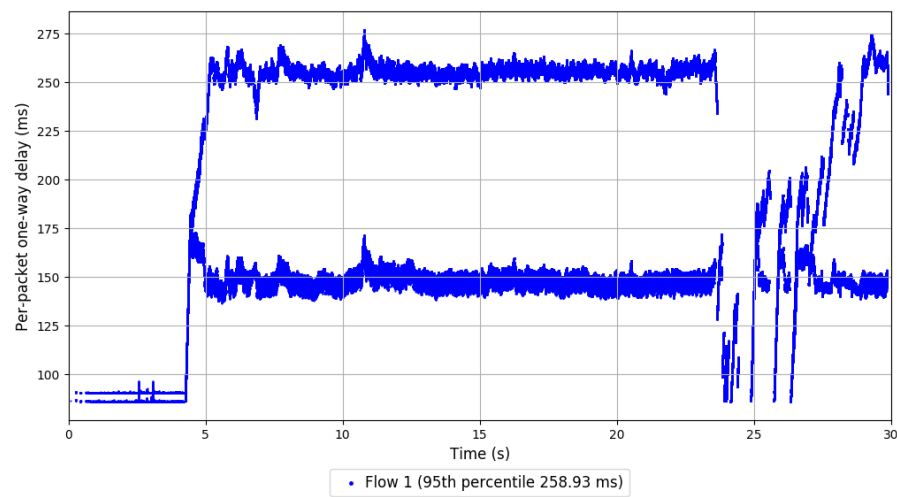
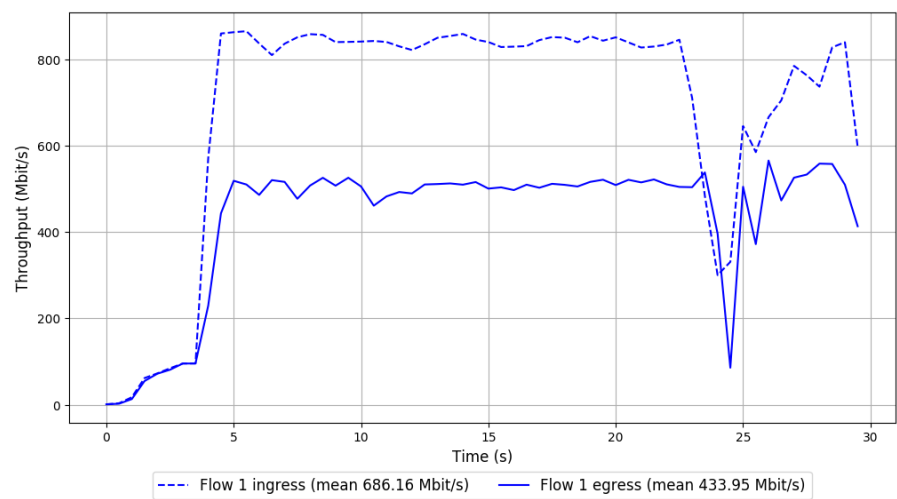
-- Flow 1:

Average throughput: 433.95 Mbit/s

95th percentile per-packet one-way delay: 258.925 ms

Loss rate: 37.13%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-15 22:47:07

End at: 2018-02-15 22:47:37

Below is generated by plot.py at 2018-02-16 04:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.72 Mbit/s

95th percentile per-packet one-way delay: 87.004 ms

Loss rate: 0.33%

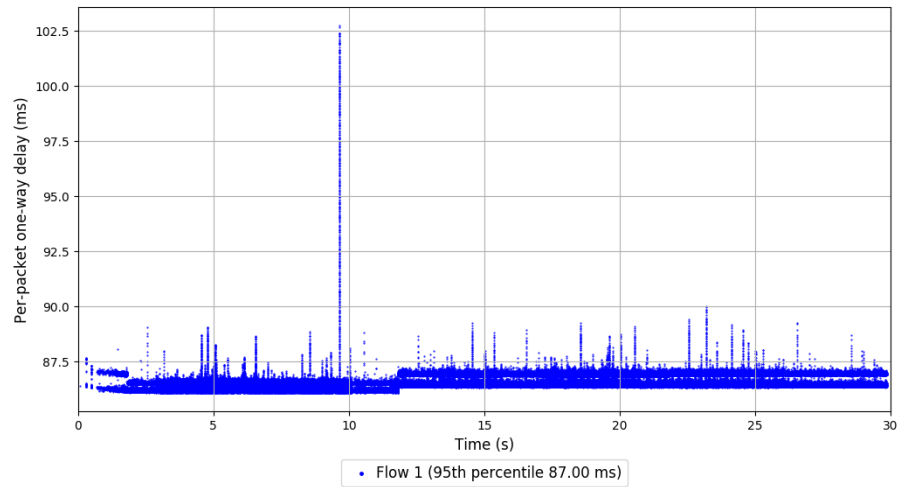
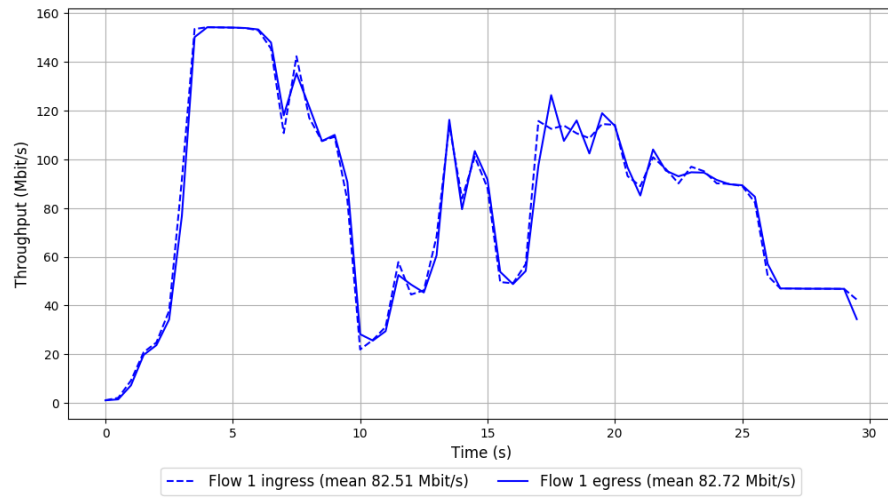
-- Flow 1:

Average throughput: 82.72 Mbit/s

95th percentile per-packet one-way delay: 87.004 ms

Loss rate: 0.33%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-15 23:02:31

End at: 2018-02-15 23:03:01

Below is generated by plot.py at 2018-02-16 04:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 86.700 ms

Loss rate: 0.69%

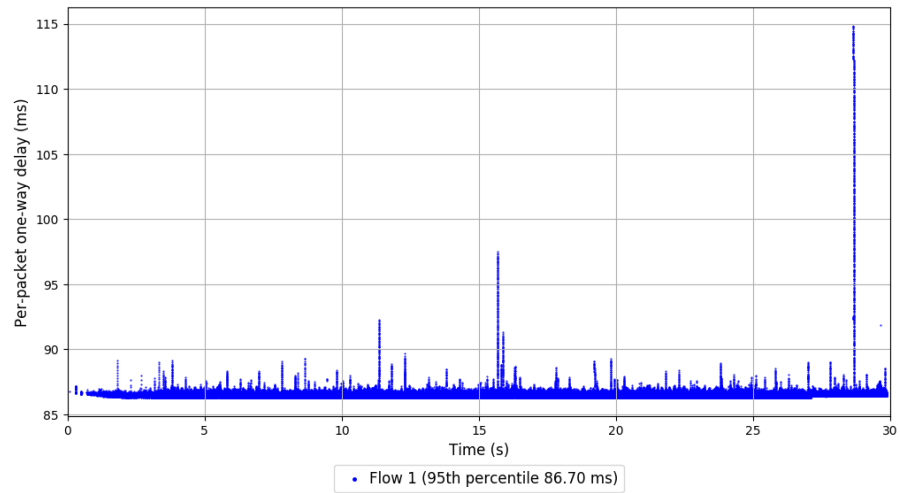
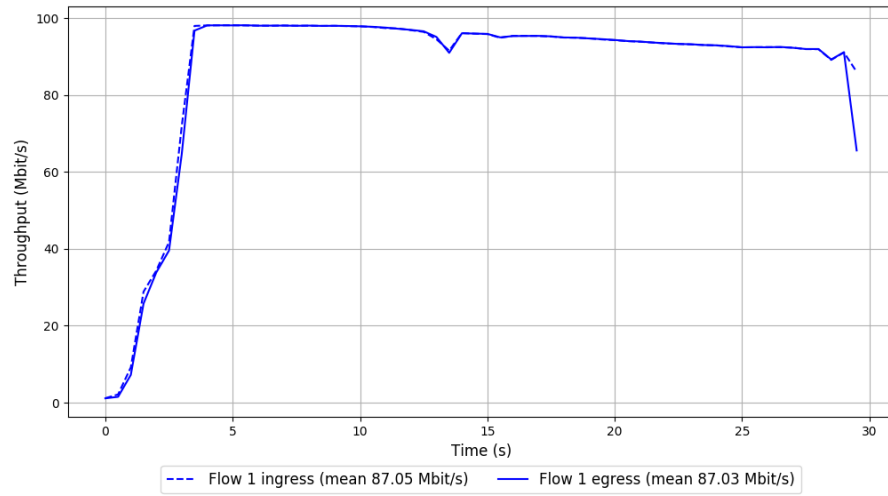
-- Flow 1:

Average throughput: 87.03 Mbit/s

95th percentile per-packet one-way delay: 86.700 ms

Loss rate: 0.69%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-15 23:18:21

End at: 2018-02-15 23:18:51

Below is generated by plot.py at 2018-02-16 04:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 87.128 ms

Loss rate: 0.38%

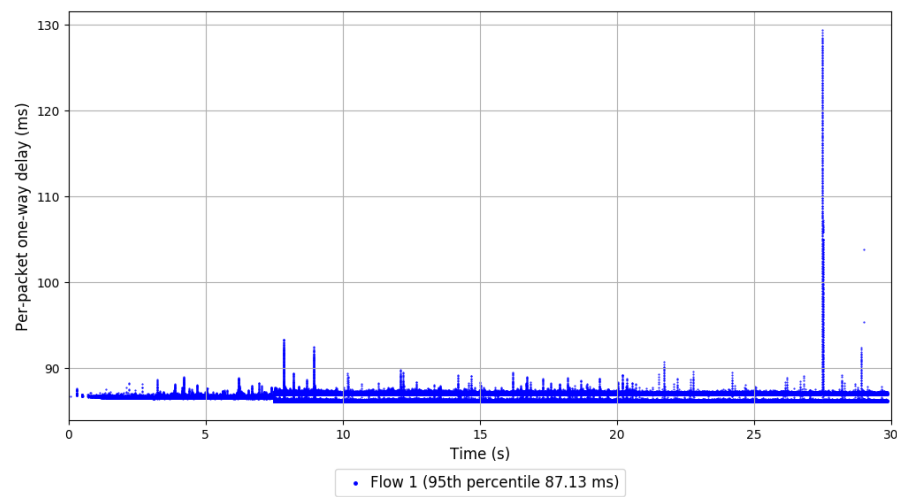
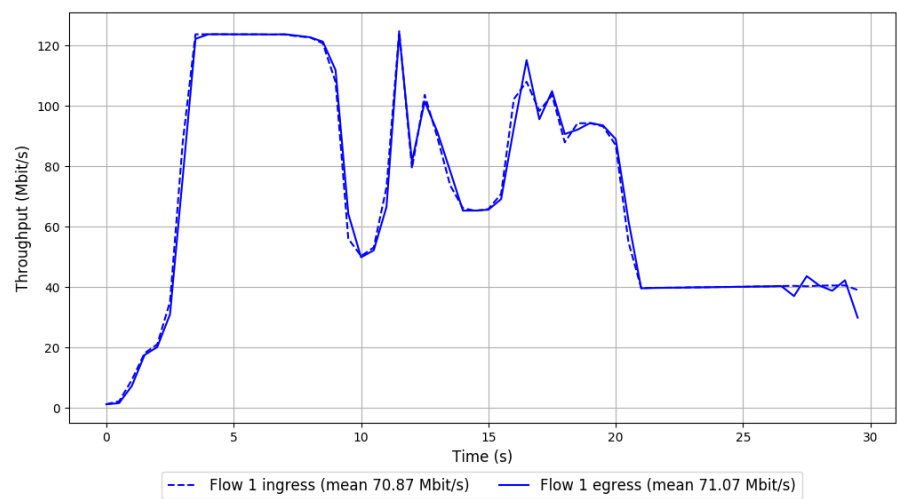
-- Flow 1:

Average throughput: 71.07 Mbit/s

95th percentile per-packet one-way delay: 87.128 ms

Loss rate: 0.38%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-15 23:34:11

End at: 2018-02-15 23:34:41

Below is generated by plot.py at 2018-02-16 04:05:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.25 Mbit/s

95th percentile per-packet one-way delay: 90.449 ms

Loss rate: 0.60%

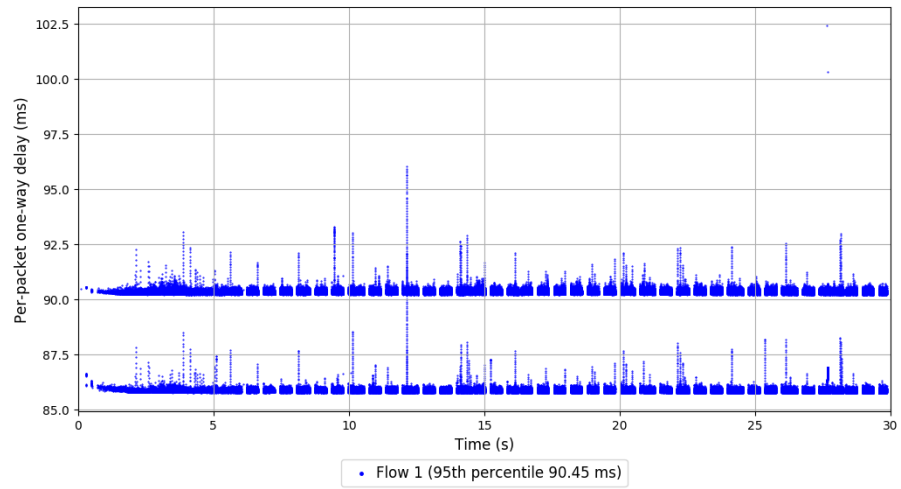
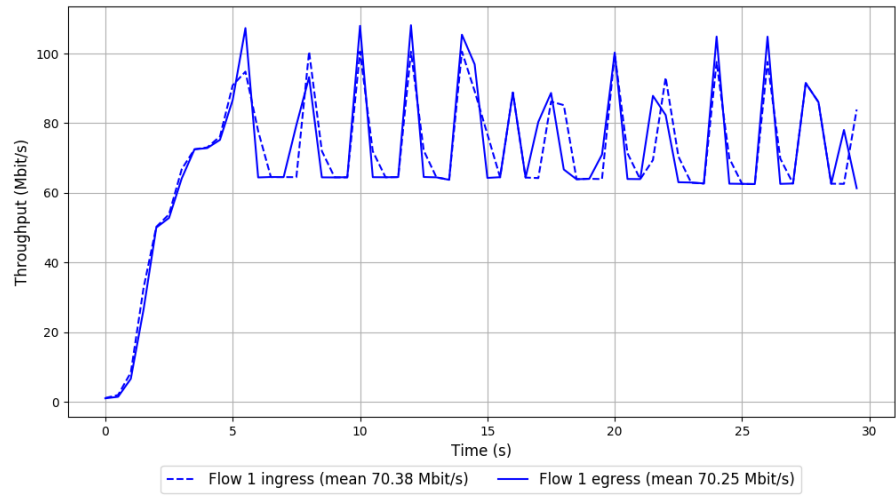
-- Flow 1:

Average throughput: 70.25 Mbit/s

95th percentile per-packet one-way delay: 90.449 ms

Loss rate: 0.60%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-15 23:49:42

End at: 2018-02-15 23:50:12

Below is generated by plot.py at 2018-02-16 04:05:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.43 Mbit/s

95th percentile per-packet one-way delay: 86.064 ms

Loss rate: 0.00%

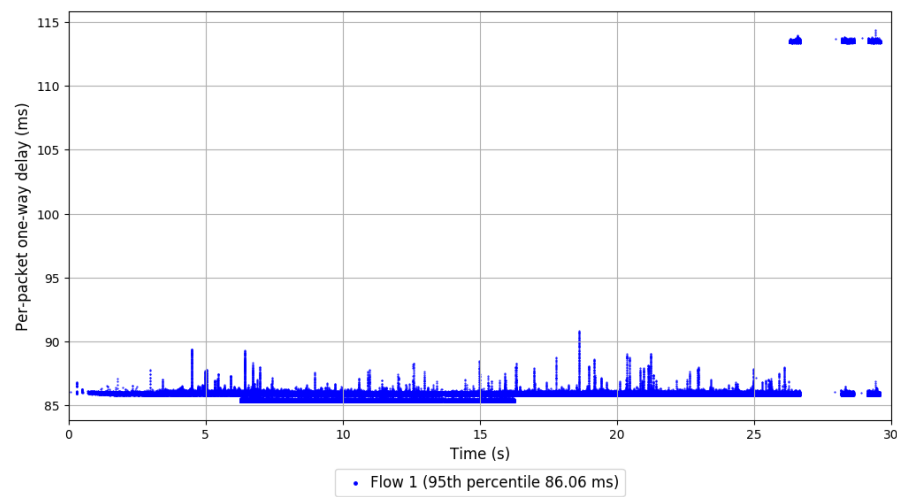
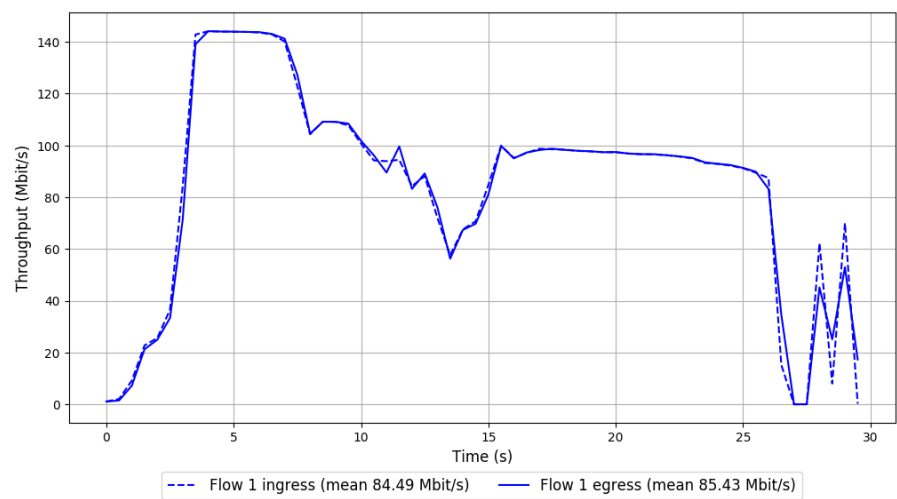
-- Flow 1:

Average throughput: 85.43 Mbit/s

95th percentile per-packet one-way delay: 86.064 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 00:05:02

End at: 2018-02-16 00:05:32

Below is generated by plot.py at 2018-02-16 04:05:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 113.682 ms

Loss rate: 0.21%

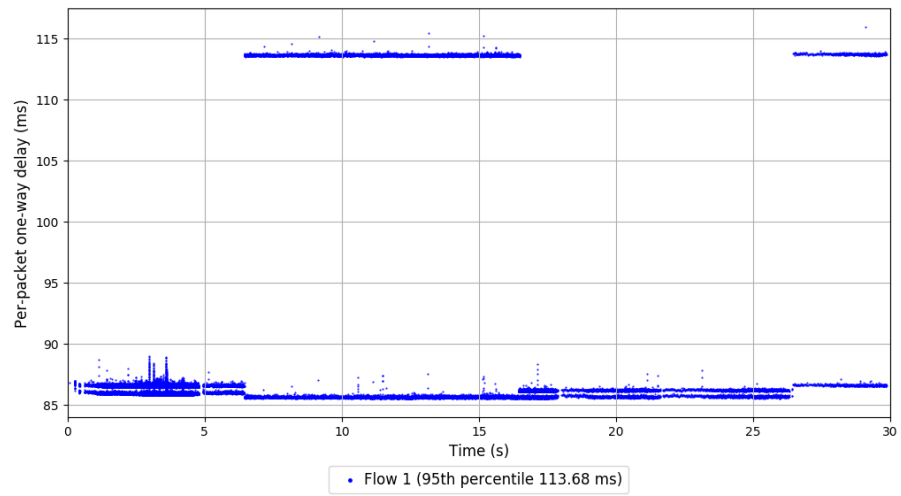
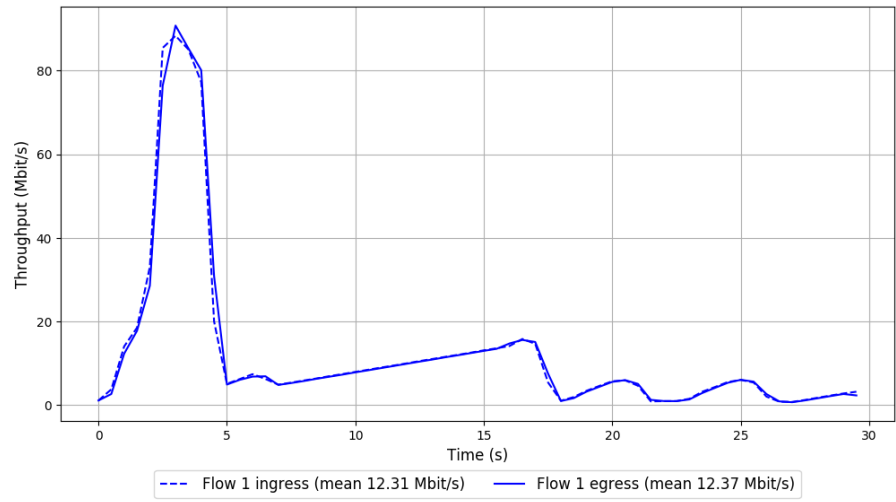
-- Flow 1:

Average throughput: 12.37 Mbit/s

95th percentile per-packet one-way delay: 113.682 ms

Loss rate: 0.21%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 00:20:26

End at: 2018-02-16 00:20:56

Below is generated by plot.py at 2018-02-16 04:05:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 86.834 ms

Loss rate: 0.55%

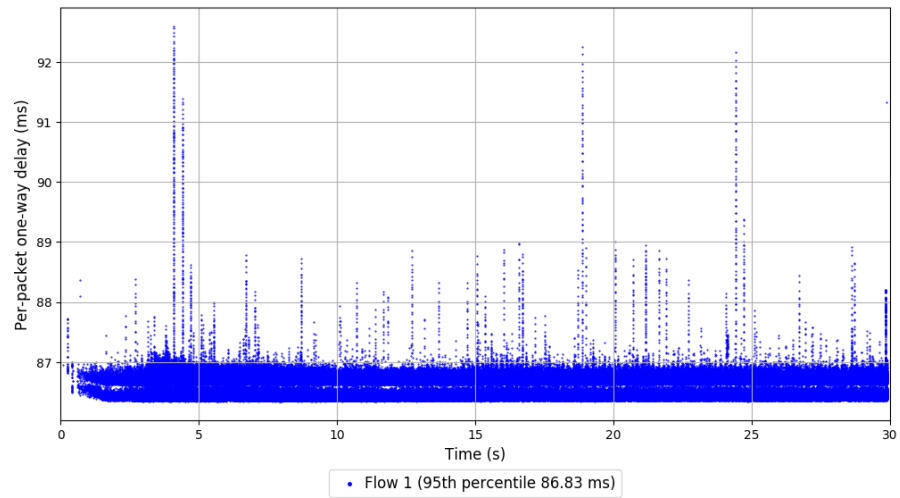
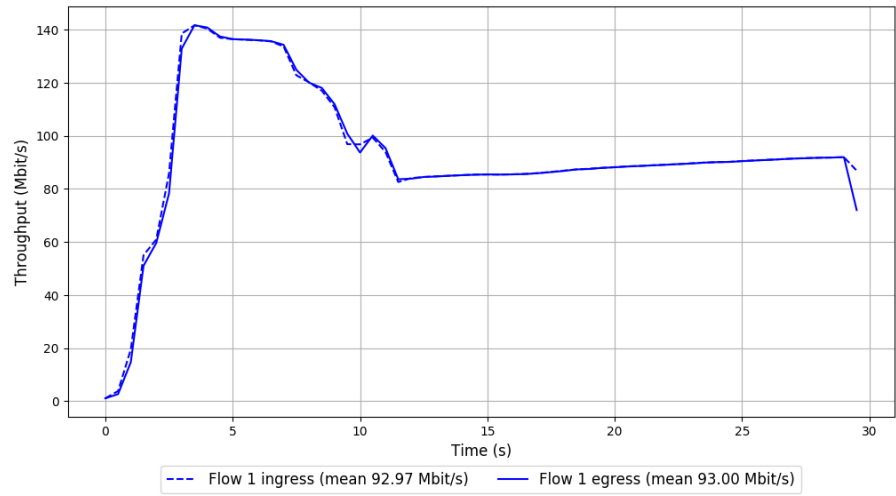
-- Flow 1:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 86.834 ms

Loss rate: 0.55%

Run 10: Report of Copa — Data Link

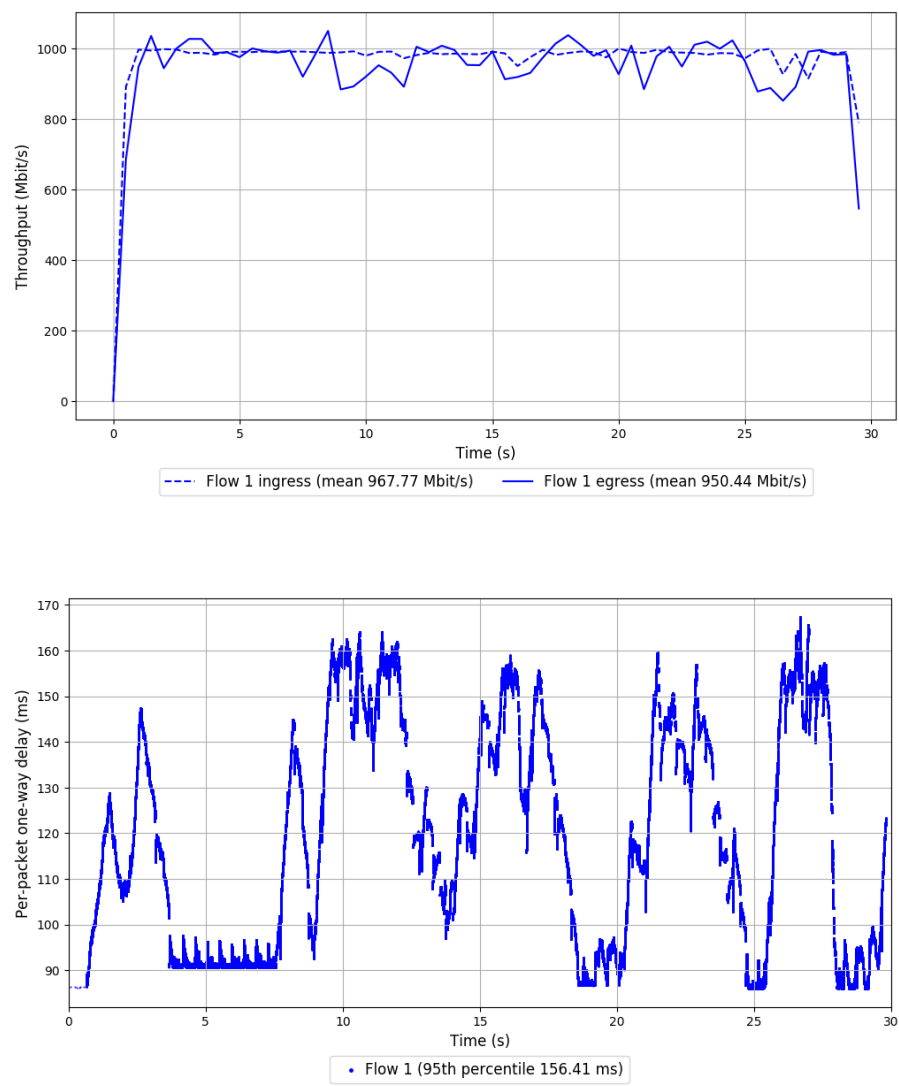


```
Run 1: Statistics of FillP

Start at: 2018-02-15 22:11:35
End at: 2018-02-15 22:12:06

# Below is generated by plot.py at 2018-02-16 04:08:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 950.44 Mbit/s
95th percentile per-packet one-way delay: 156.414 ms
Loss rate: 2.37%
-- Flow 1:
Average throughput: 950.44 Mbit/s
95th percentile per-packet one-way delay: 156.414 ms
Loss rate: 2.37%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-15 22:27:20

End at: 2018-02-15 22:27:50

Below is generated by plot.py at 2018-02-16 04:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 964.94 Mbit/s

95th percentile per-packet one-way delay: 148.074 ms

Loss rate: 1.29%

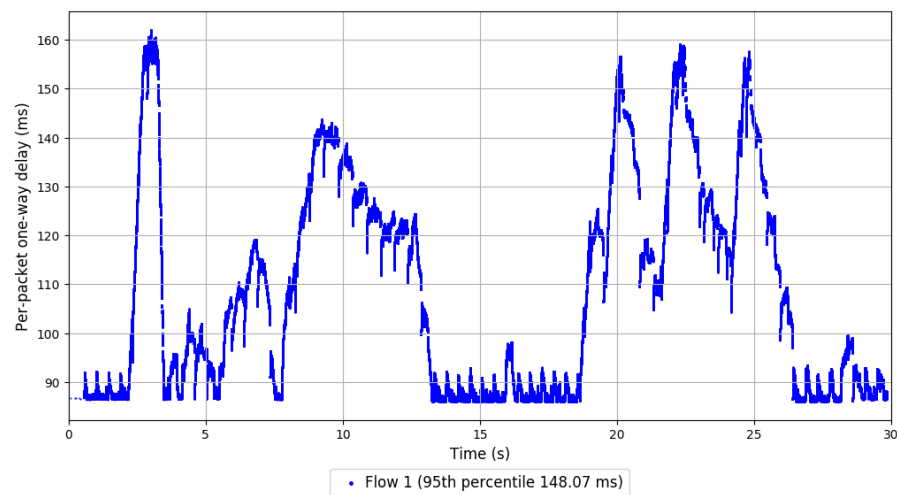
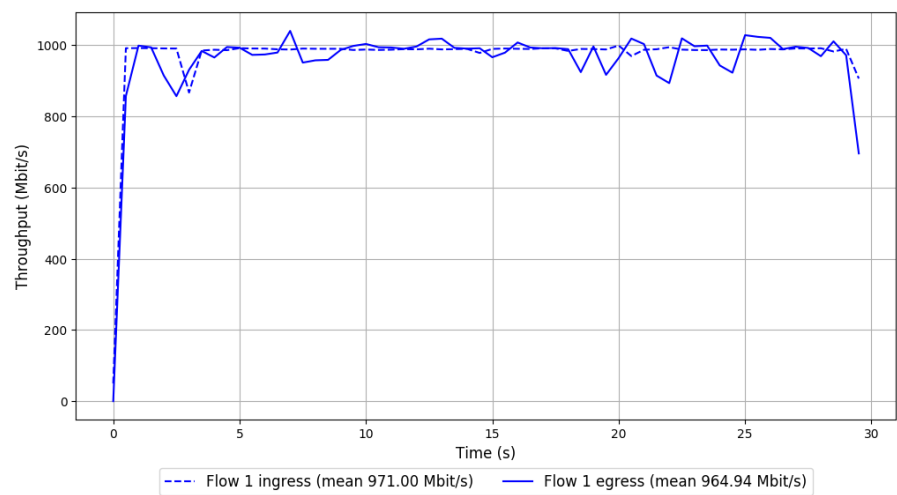
-- Flow 1:

Average throughput: 964.94 Mbit/s

95th percentile per-packet one-way delay: 148.074 ms

Loss rate: 1.29%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-15 22:43:09

End at: 2018-02-15 22:43:39

Below is generated by plot.py at 2018-02-16 04:08:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 957.10 Mbit/s

95th percentile per-packet one-way delay: 152.737 ms

Loss rate: 1.70%

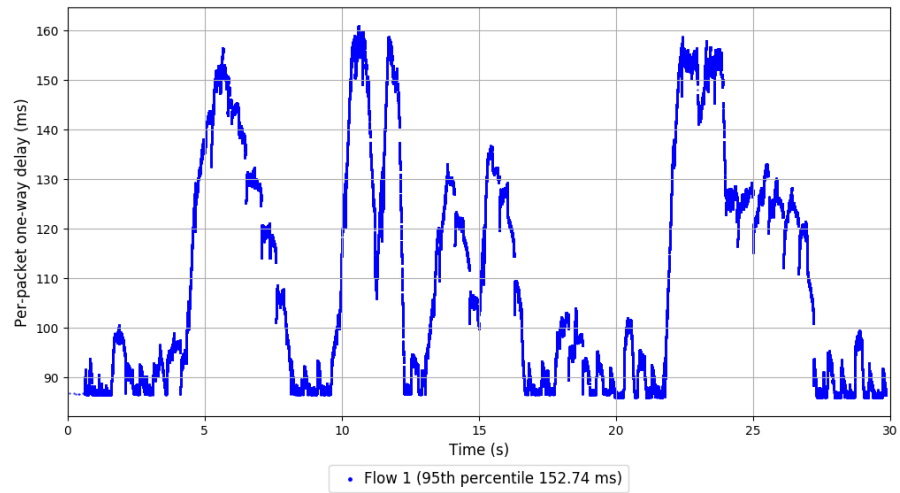
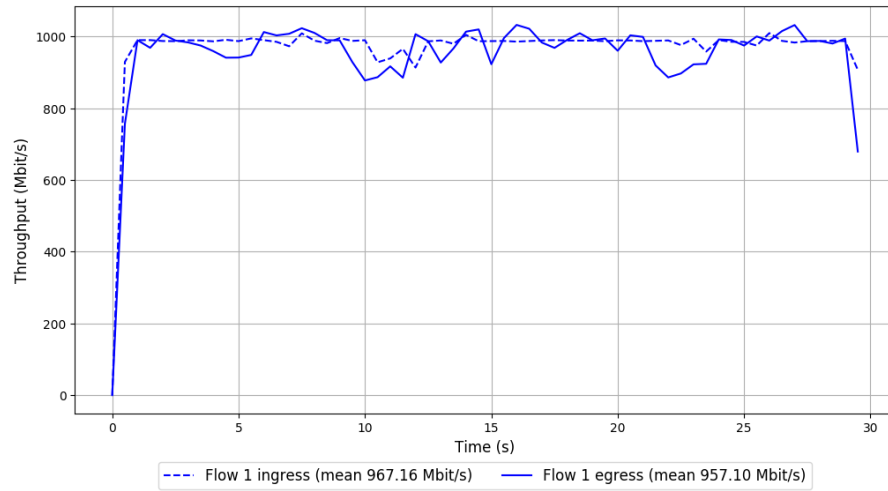
-- Flow 1:

Average throughput: 957.10 Mbit/s

95th percentile per-packet one-way delay: 152.737 ms

Loss rate: 1.70%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-15 22:58:32

End at: 2018-02-15 22:59:02

Below is generated by plot.py at 2018-02-16 04:09:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 905.57 Mbit/s

95th percentile per-packet one-way delay: 161.737 ms

Loss rate: 5.68%

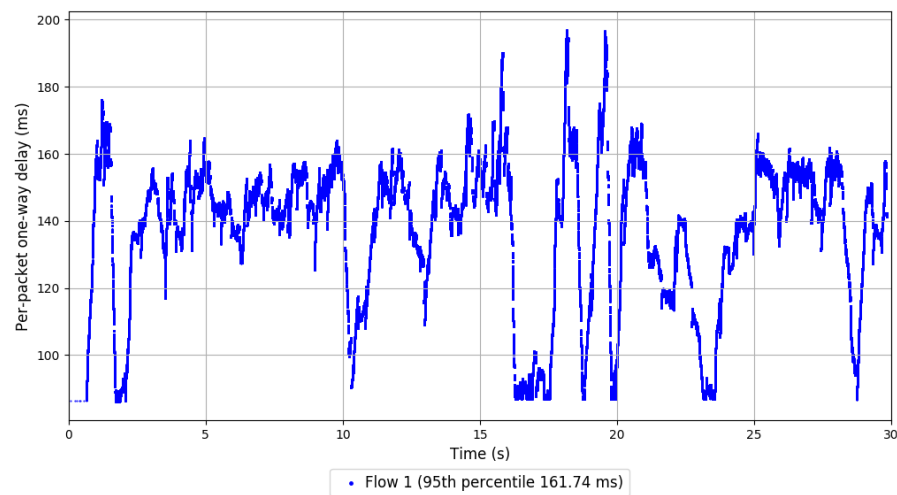
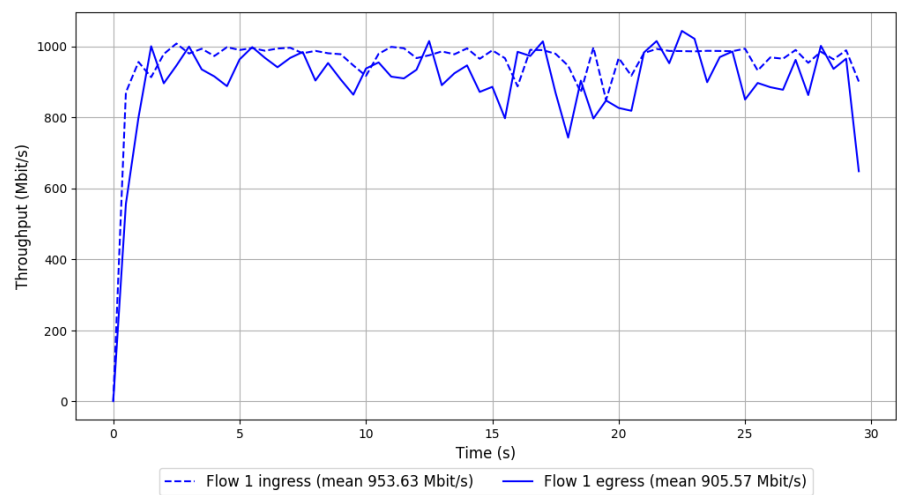
-- Flow 1:

Average throughput: 905.57 Mbit/s

95th percentile per-packet one-way delay: 161.737 ms

Loss rate: 5.68%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-15 23:14:17

End at: 2018-02-15 23:14:47

Below is generated by plot.py at 2018-02-16 04:09:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 860.23 Mbit/s

95th percentile per-packet one-way delay: 169.302 ms

Loss rate: 8.04%

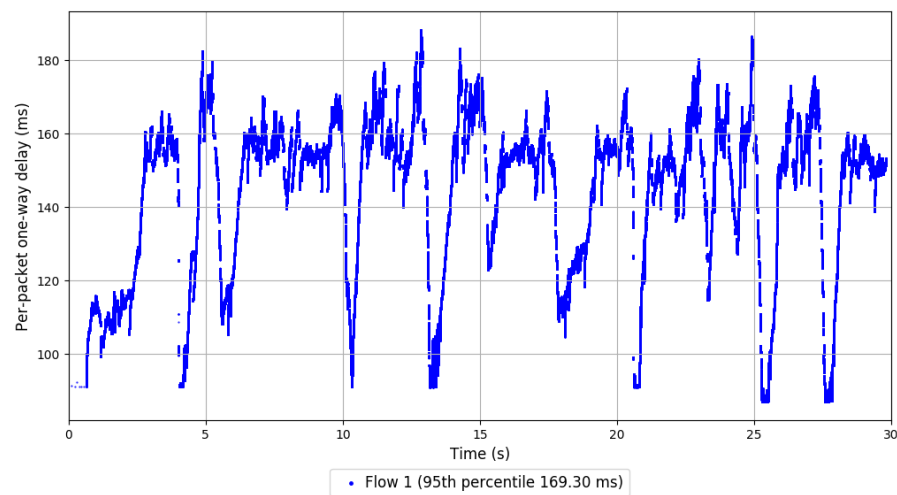
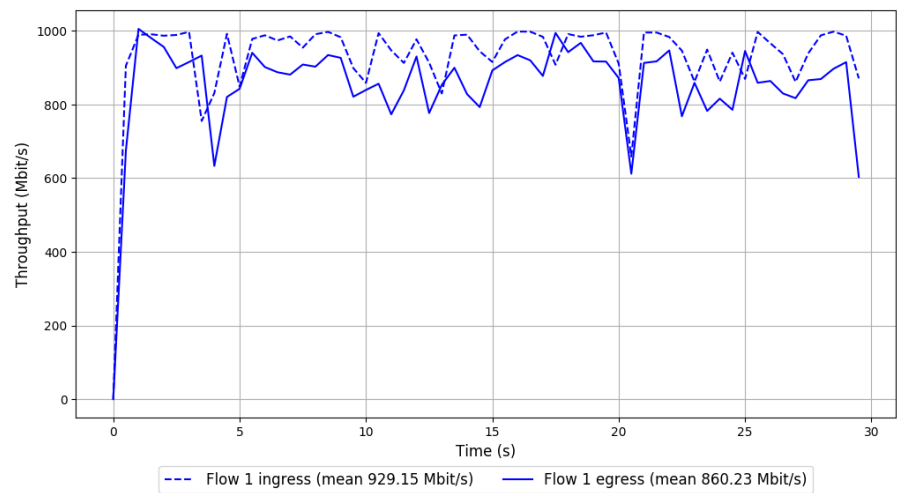
-- Flow 1:

Average throughput: 860.23 Mbit/s

95th percentile per-packet one-way delay: 169.302 ms

Loss rate: 8.04%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-15 23:30:10

End at: 2018-02-15 23:30:40

Below is generated by plot.py at 2018-02-16 04:09:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 848.87 Mbit/s

95th percentile per-packet one-way delay: 186.299 ms

Loss rate: 7.58%

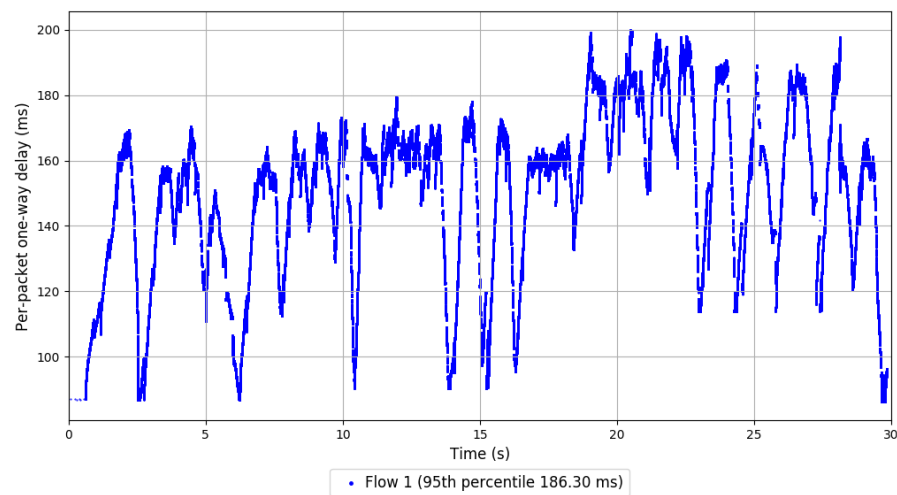
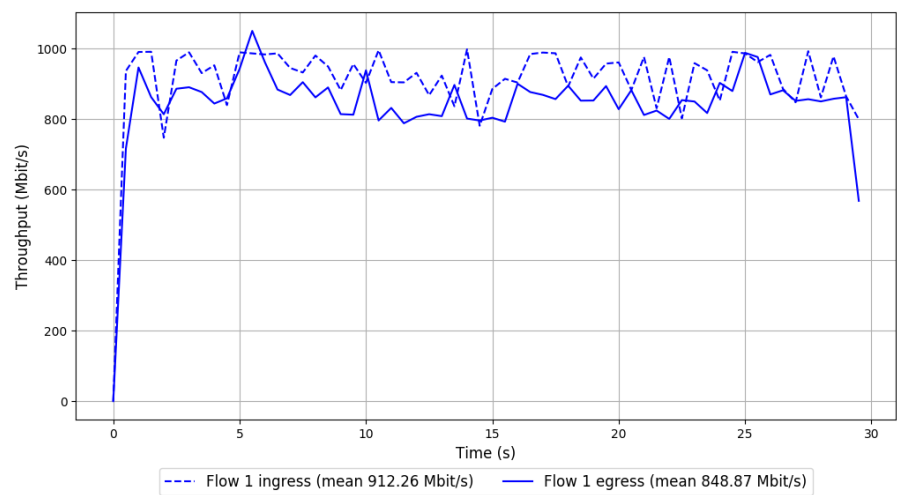
-- Flow 1:

Average throughput: 848.87 Mbit/s

95th percentile per-packet one-way delay: 186.299 ms

Loss rate: 7.58%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-15 23:45:45

End at: 2018-02-15 23:46:15

Below is generated by plot.py at 2018-02-16 04:11:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 966.63 Mbit/s

95th percentile per-packet one-way delay: 122.394 ms

Loss rate: 0.90%

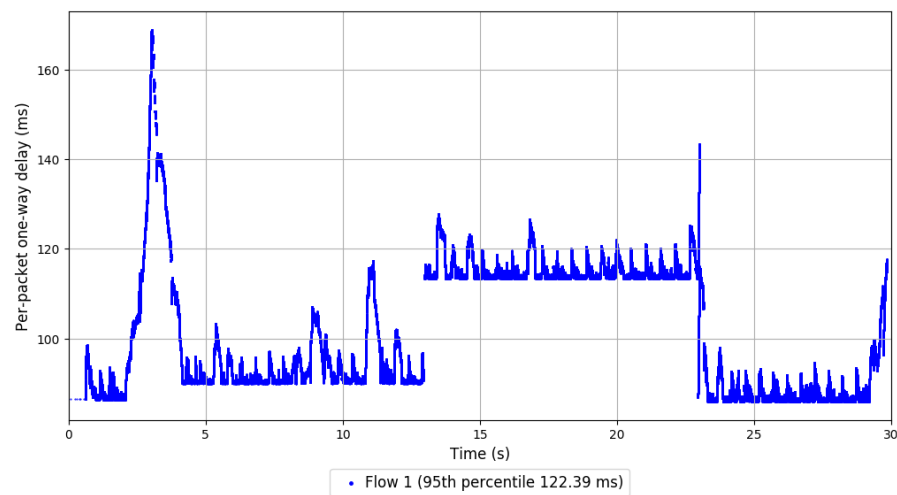
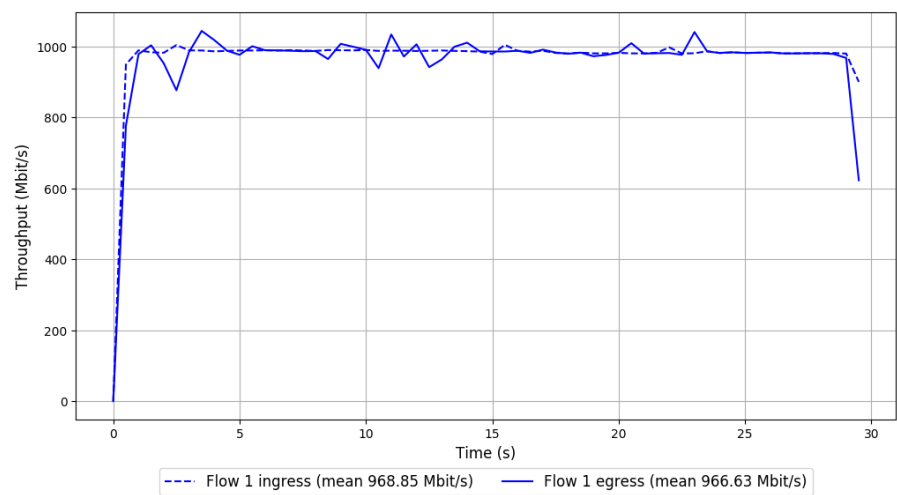
-- Flow 1:

Average throughput: 966.63 Mbit/s

95th percentile per-packet one-way delay: 122.394 ms

Loss rate: 0.90%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-16 00:01:05

End at: 2018-02-16 00:01:35

Below is generated by plot.py at 2018-02-16 04:23:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 953.30 Mbit/s

95th percentile per-packet one-way delay: 151.454 ms

Loss rate: 1.65%

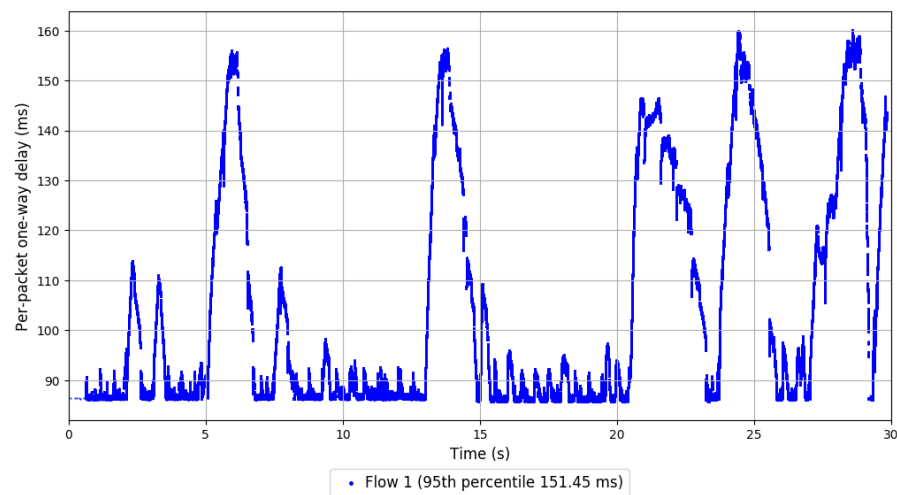
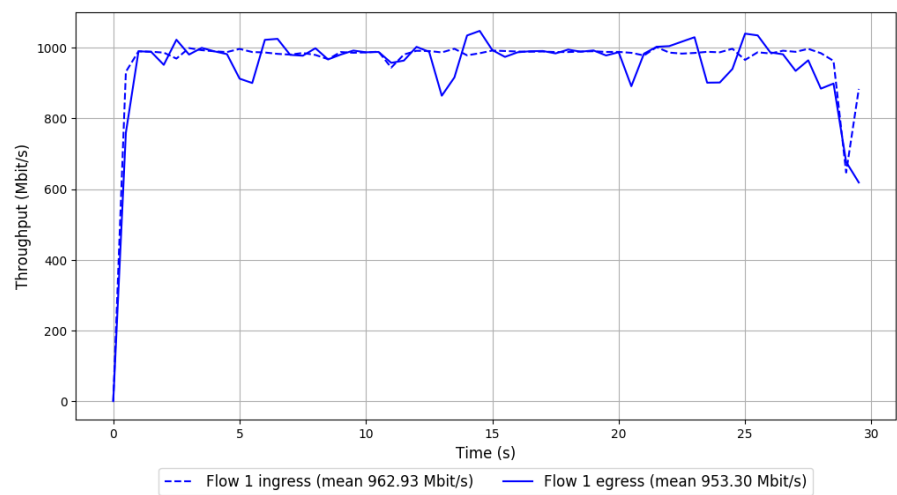
-- Flow 1:

Average throughput: 953.30 Mbit/s

95th percentile per-packet one-way delay: 151.454 ms

Loss rate: 1.65%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

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

End at: 2018-02-16 00:16:58

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 934.49 Mbit/s

95th percentile per-packet one-way delay: 153.483 ms

Loss rate: 4.17%

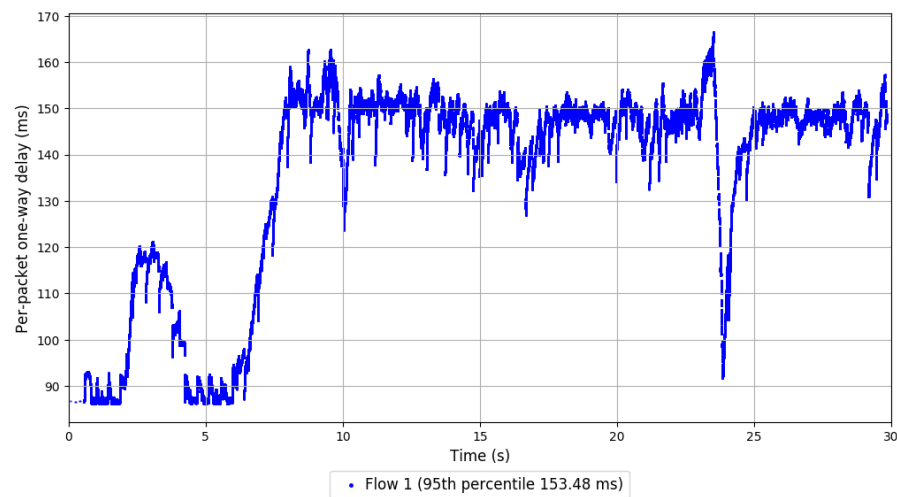
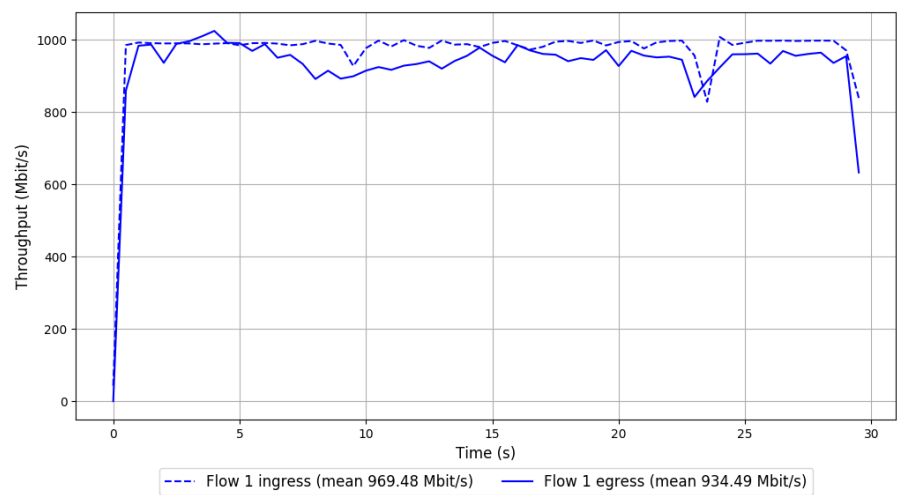
-- Flow 1:

Average throughput: 934.49 Mbit/s

95th percentile per-packet one-way delay: 153.483 ms

Loss rate: 4.17%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 00:31:55

End at: 2018-02-16 00:32:25

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 896.59 Mbit/s

95th percentile per-packet one-way delay: 160.968 ms

Loss rate: 5.31%

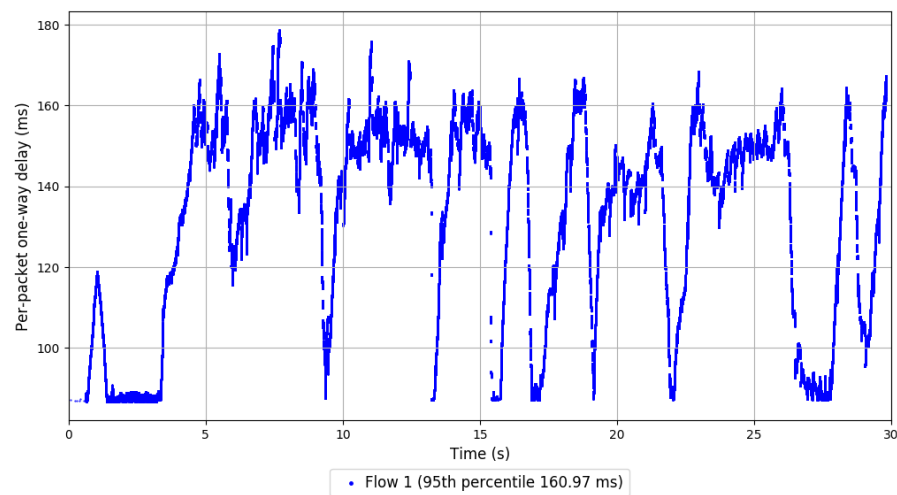
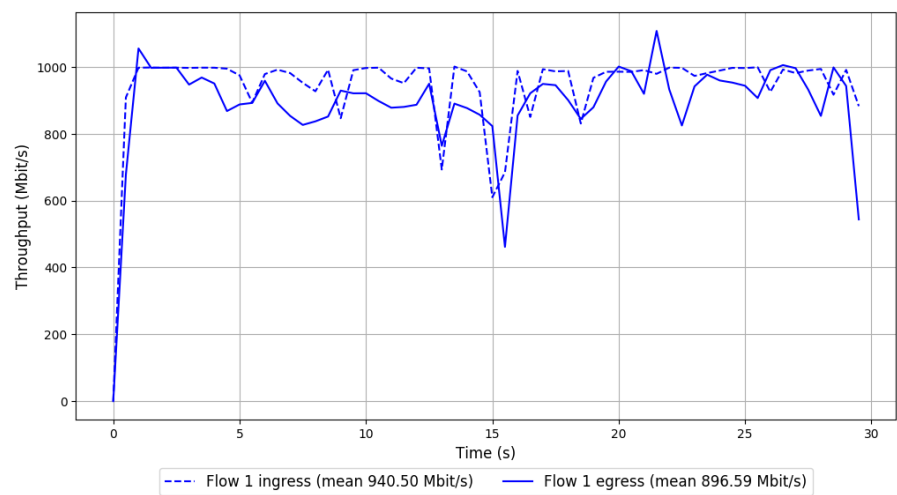
-- Flow 1:

Average throughput: 896.59 Mbit/s

95th percentile per-packet one-way delay: 160.968 ms

Loss rate: 5.31%

Run 10: Report of FillP — Data Link

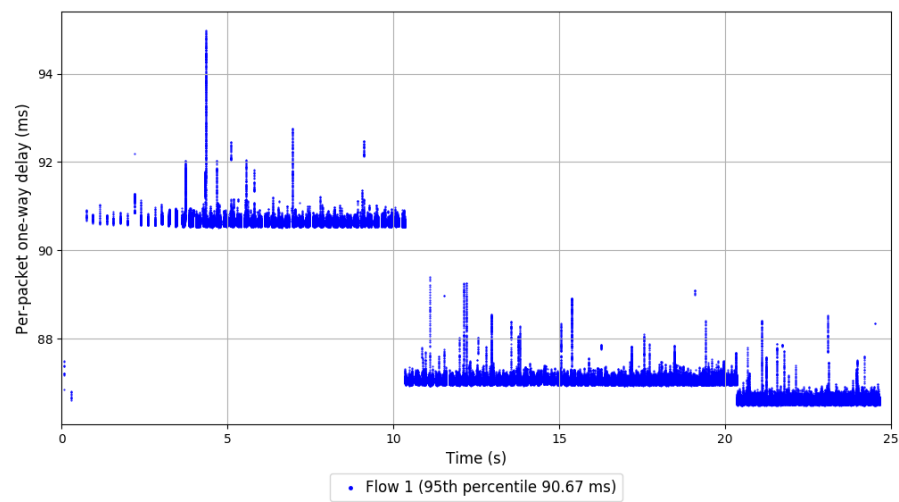
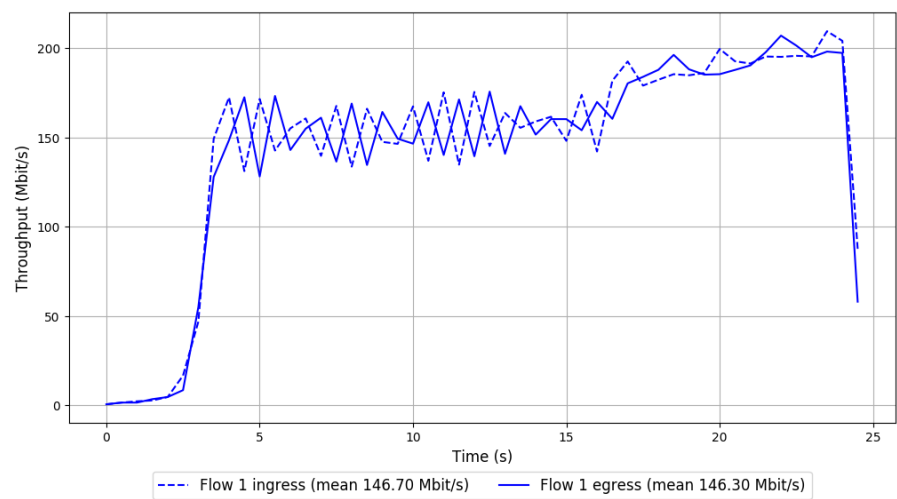


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-15 22:08:13
End at: 2018-02-15 22:08:43

# Below is generated by plot.py at 2018-02-16 04:26:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 146.30 Mbit/s
95th percentile per-packet one-way delay: 90.675 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 146.30 Mbit/s
95th percentile per-packet one-way delay: 90.675 ms
Loss rate: 0.97%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-02-15 22:23:49

End at: 2018-02-15 22:24:19

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 137.58 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 0.54%

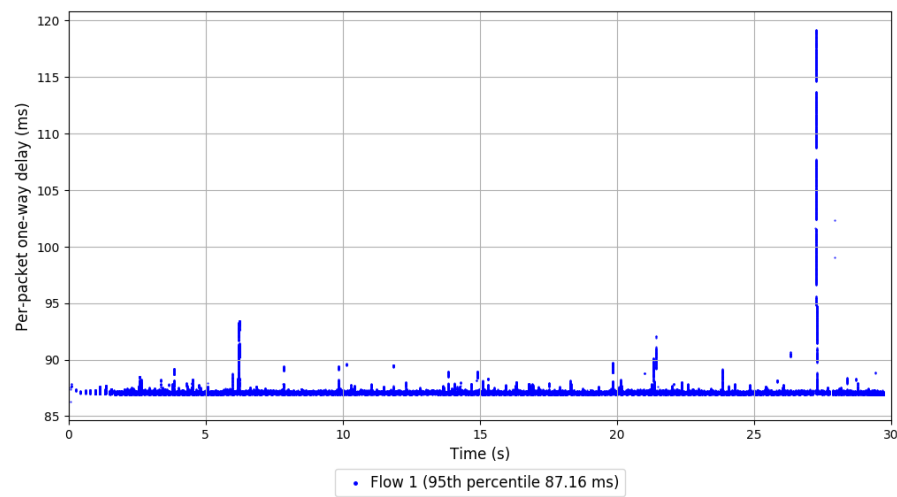
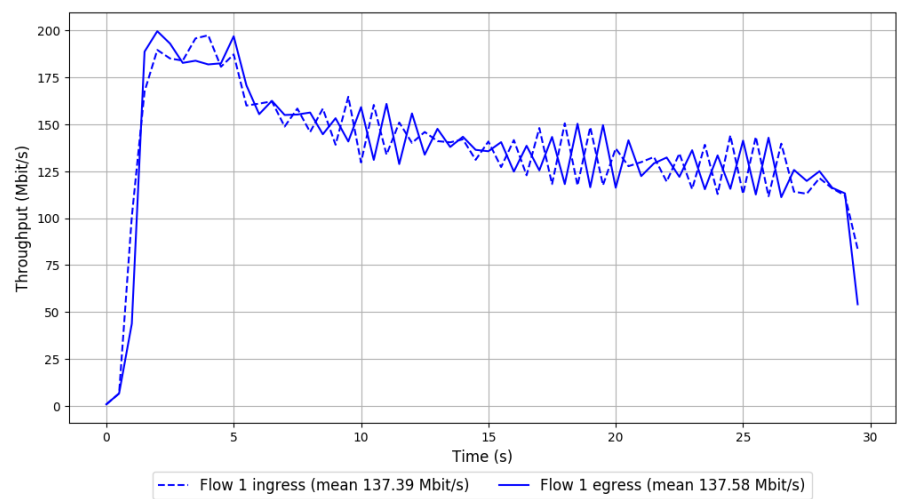
-- Flow 1:

Average throughput: 137.58 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 0.54%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-15 22:39:40

End at: 2018-02-15 22:40:10

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.87 Mbit/s

95th percentile per-packet one-way delay: 86.994 ms

Loss rate: 0.76%

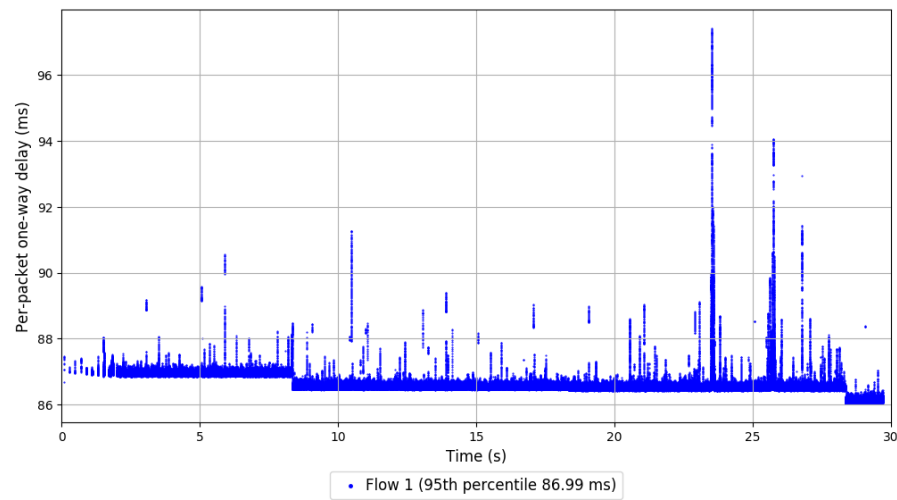
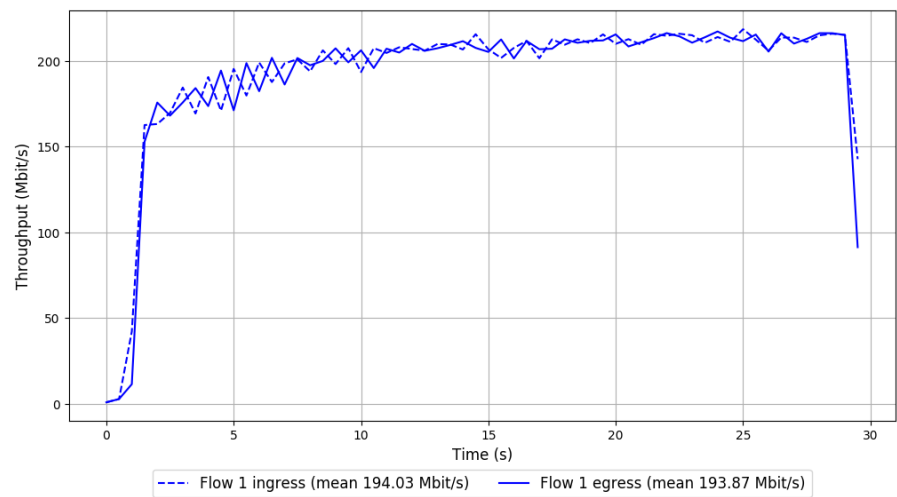
-- Flow 1:

Average throughput: 193.87 Mbit/s

95th percentile per-packet one-way delay: 86.994 ms

Loss rate: 0.76%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-15 22:55:00

End at: 2018-02-15 22:55:30

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.22 Mbit/s

95th percentile per-packet one-way delay: 86.910 ms

Loss rate: 0.76%

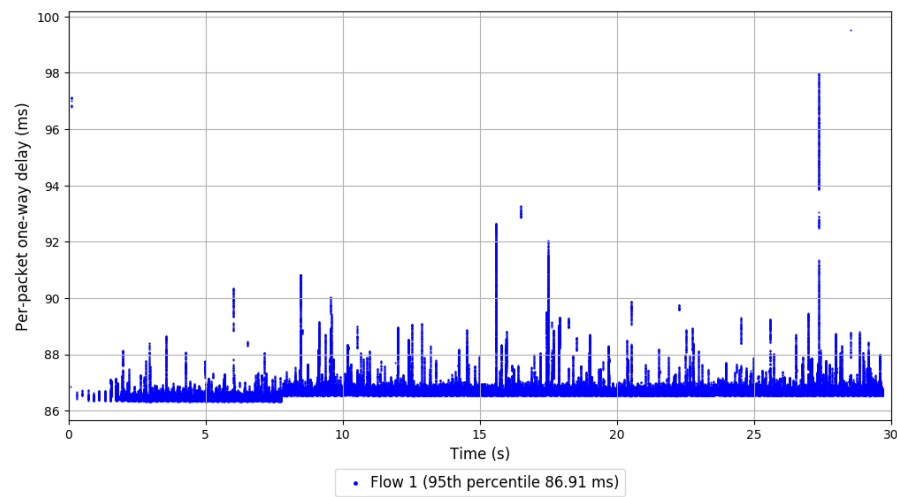
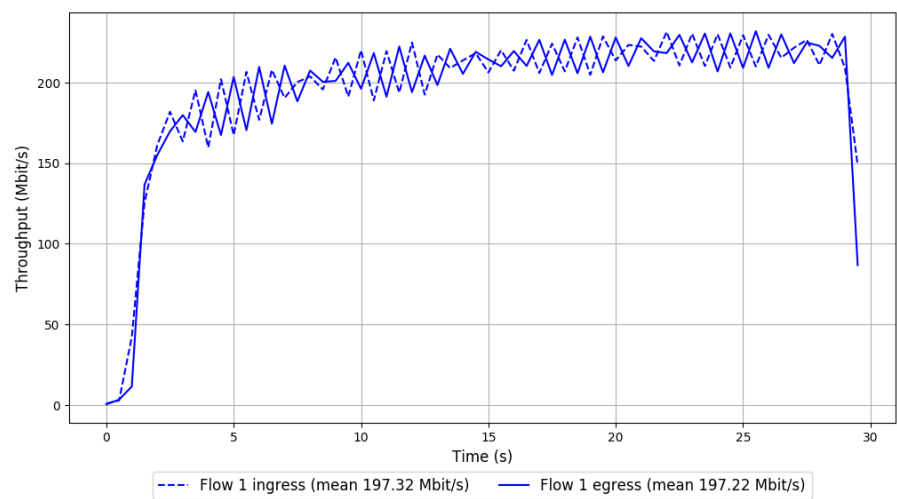
-- Flow 1:

Average throughput: 197.22 Mbit/s

95th percentile per-packet one-way delay: 86.910 ms

Loss rate: 0.76%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-15 23:10:45

End at: 2018-02-15 23:11:15

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.01 Mbit/s

95th percentile per-packet one-way delay: 87.071 ms

Loss rate: 0.68%

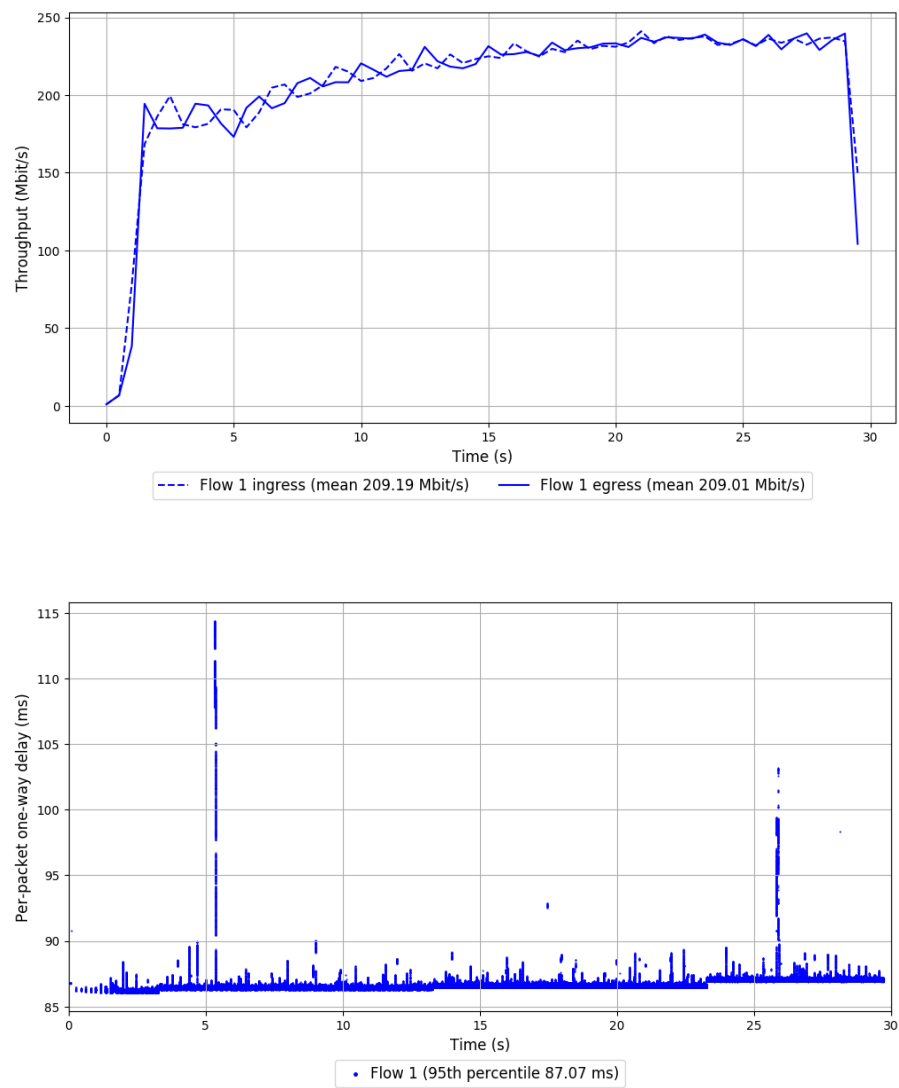
-- Flow 1:

Average throughput: 209.01 Mbit/s

95th percentile per-packet one-way delay: 87.071 ms

Loss rate: 0.68%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-15 23:26:33

End at: 2018-02-15 23:27:03

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.54 Mbit/s

95th percentile per-packet one-way delay: 87.024 ms

Loss rate: 0.75%

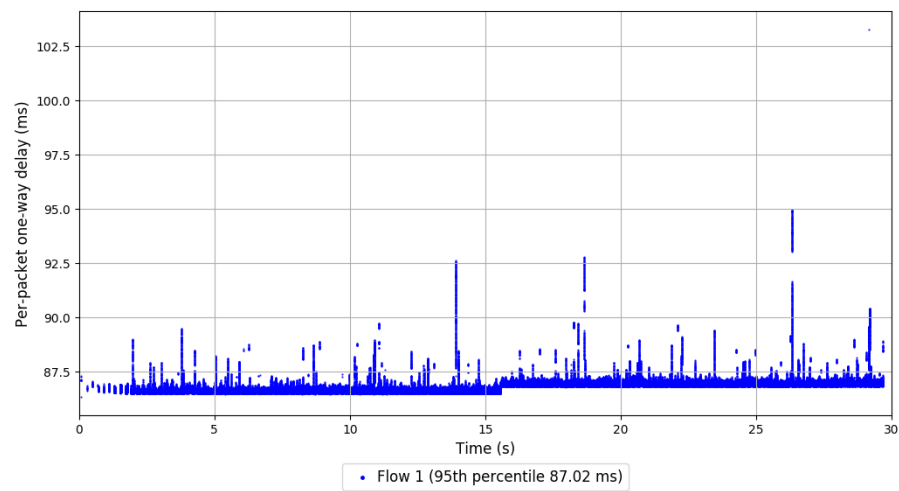
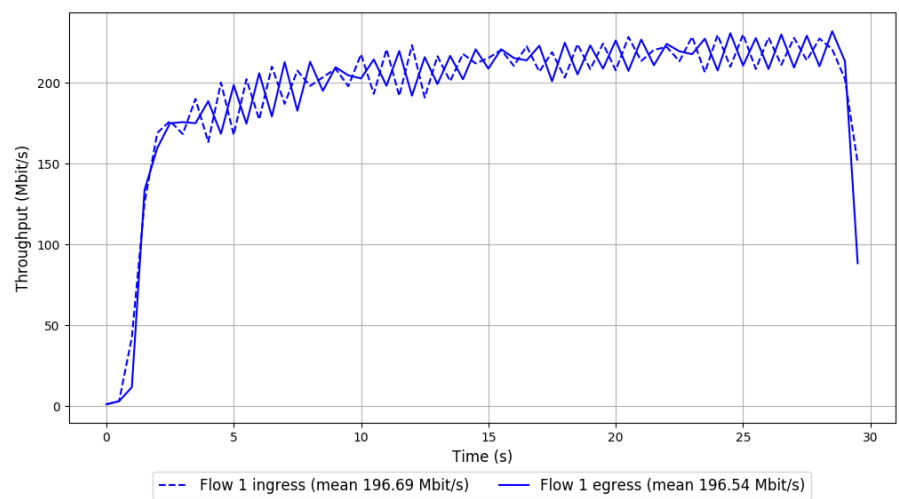
-- Flow 1:

Average throughput: 196.54 Mbit/s

95th percentile per-packet one-way delay: 87.024 ms

Loss rate: 0.75%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-15 23:42:16

End at: 2018-02-15 23:42:46

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.09 Mbit/s

95th percentile per-packet one-way delay: 86.848 ms

Loss rate: 0.75%

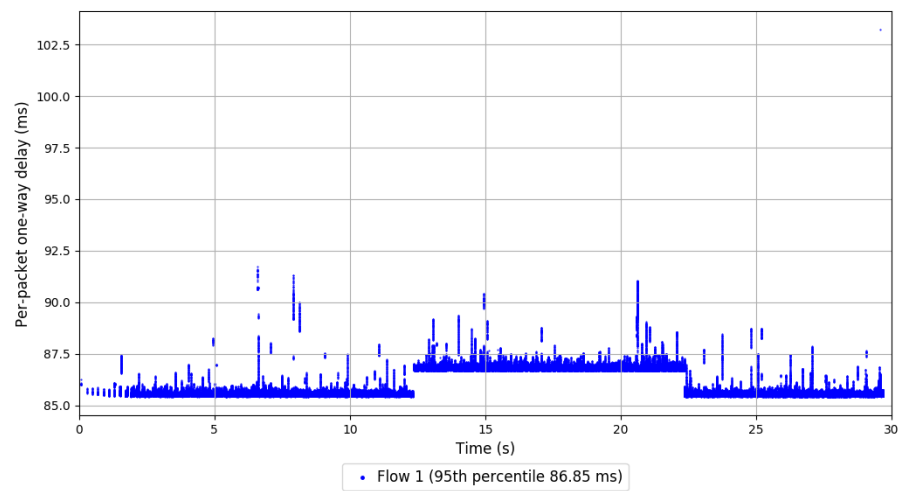
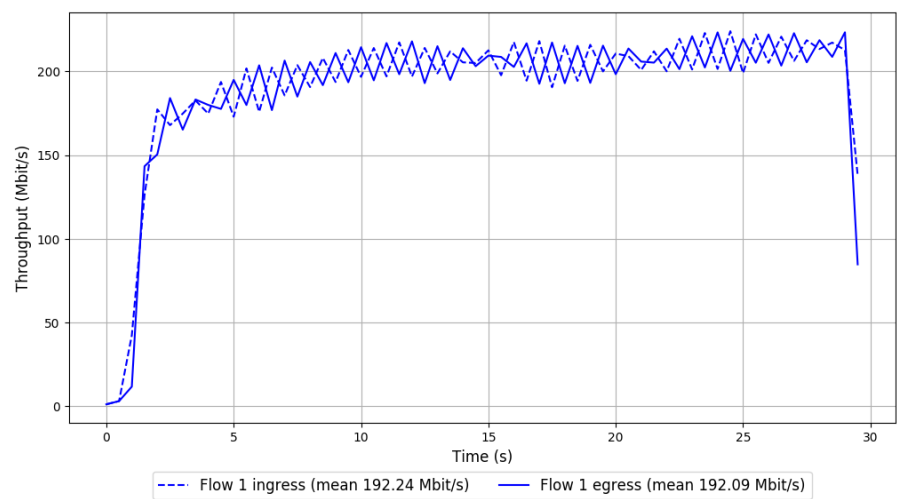
-- Flow 1:

Average throughput: 192.09 Mbit/s

95th percentile per-packet one-way delay: 86.848 ms

Loss rate: 0.75%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-15 23:57:41

End at: 2018-02-15 23:58:11

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.82 Mbit/s

95th percentile per-packet one-way delay: 113.429 ms

Loss rate: 0.81%

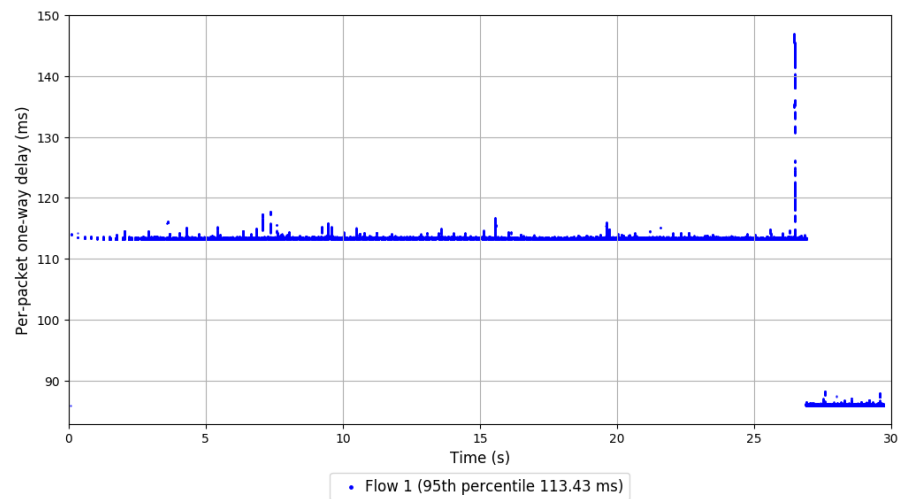
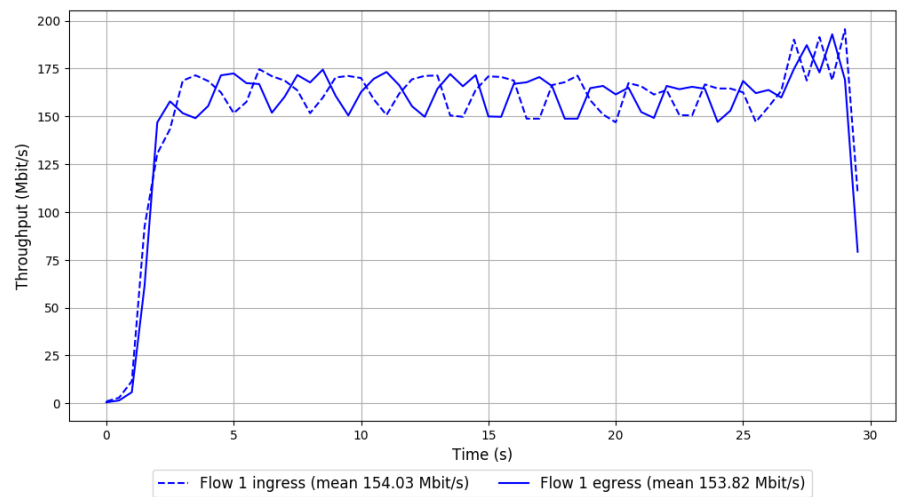
-- Flow 1:

Average throughput: 153.82 Mbit/s

95th percentile per-packet one-way delay: 113.429 ms

Loss rate: 0.81%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 00:12:50

End at: 2018-02-16 00:13:20

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.12 Mbit/s

95th percentile per-packet one-way delay: 114.000 ms

Loss rate: 0.62%

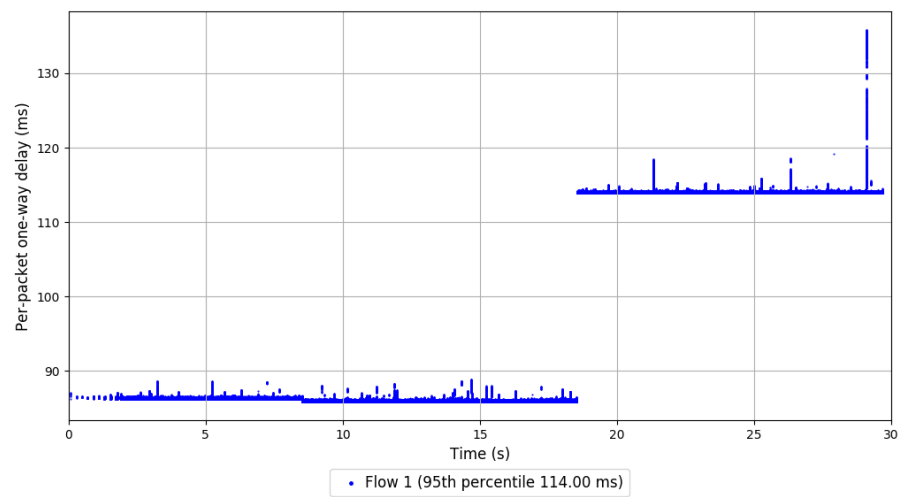
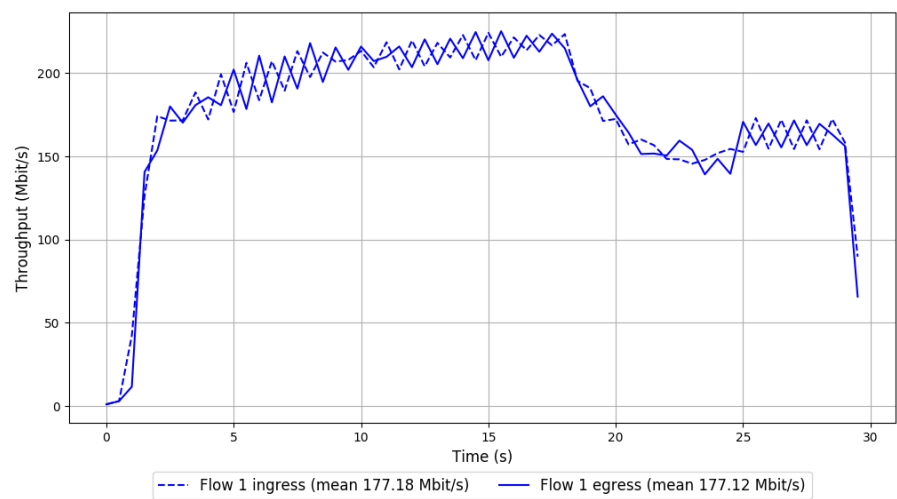
-- Flow 1:

Average throughput: 177.12 Mbit/s

95th percentile per-packet one-way delay: 114.000 ms

Loss rate: 0.62%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 00:28:20

End at: 2018-02-16 00:28:50

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.84 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 0.74%

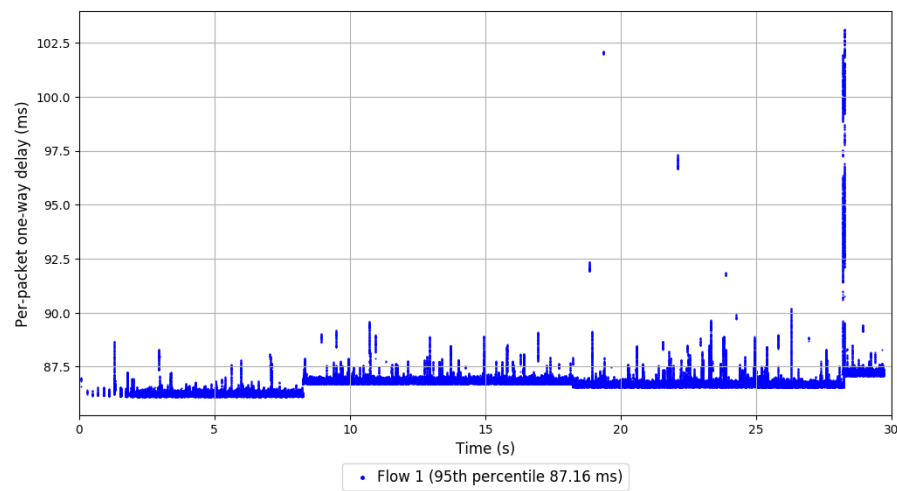
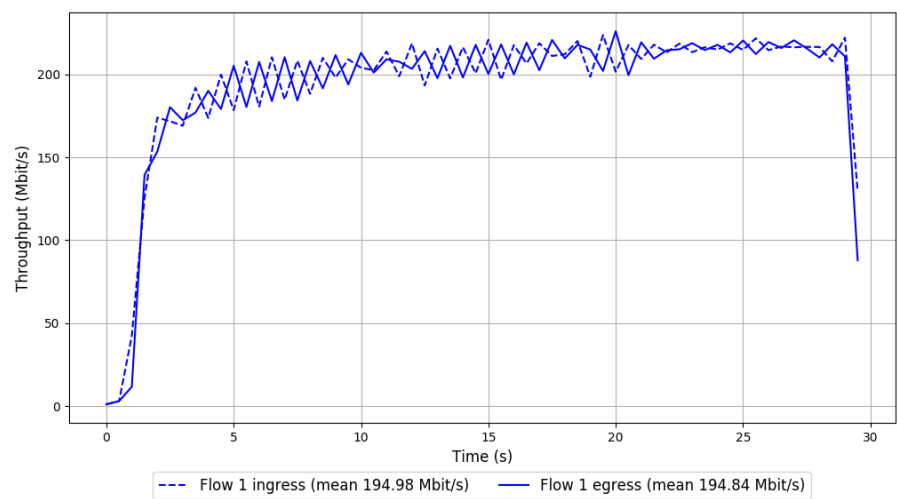
-- Flow 1:

Average throughput: 194.84 Mbit/s

95th percentile per-packet one-way delay: 87.160 ms

Loss rate: 0.74%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-15 22:14:28

End at: 2018-02-15 22:14:58

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.22 Mbit/s

95th percentile per-packet one-way delay: 116.055 ms

Loss rate: 0.77%

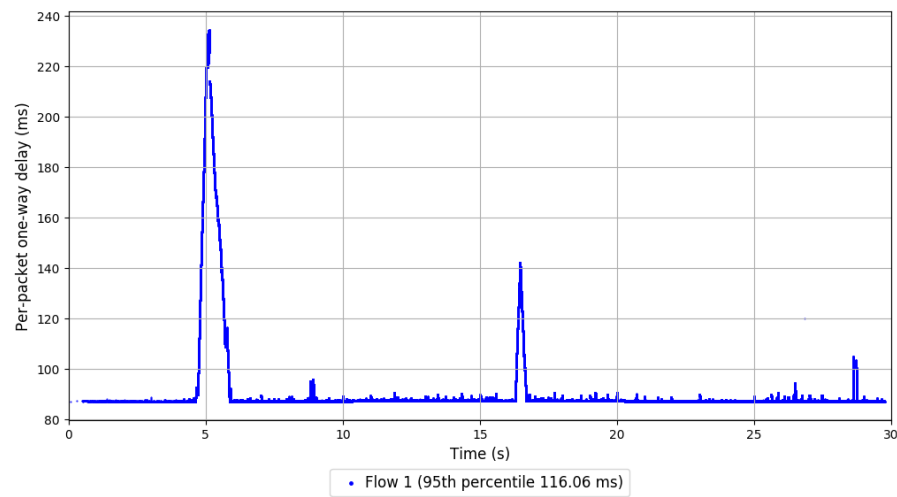
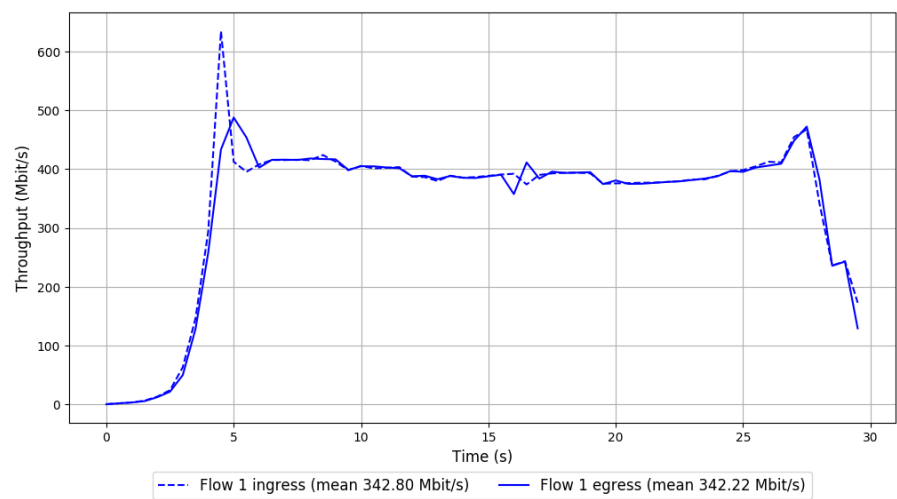
-- Flow 1:

Average throughput: 342.22 Mbit/s

95th percentile per-packet one-way delay: 116.055 ms

Loss rate: 0.77%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-15 22:30:12

End at: 2018-02-15 22:30:42

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.17 Mbit/s

95th percentile per-packet one-way delay: 90.731 ms

Loss rate: 0.97%

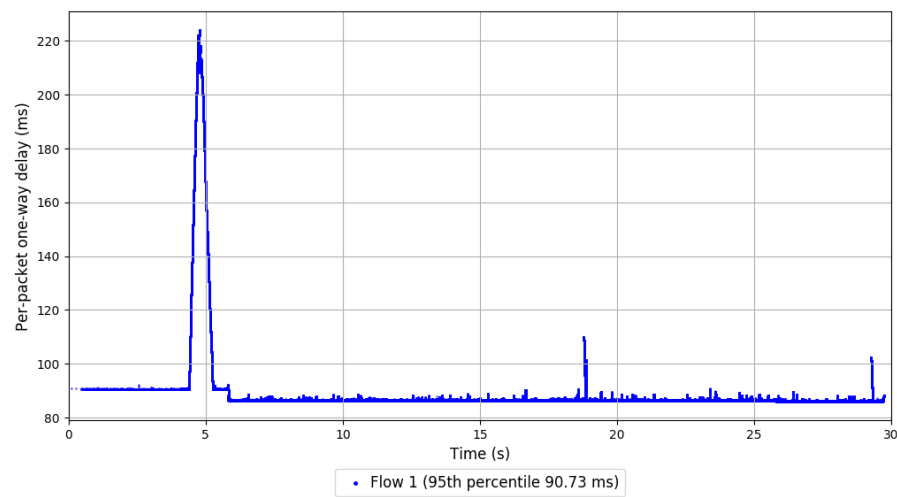
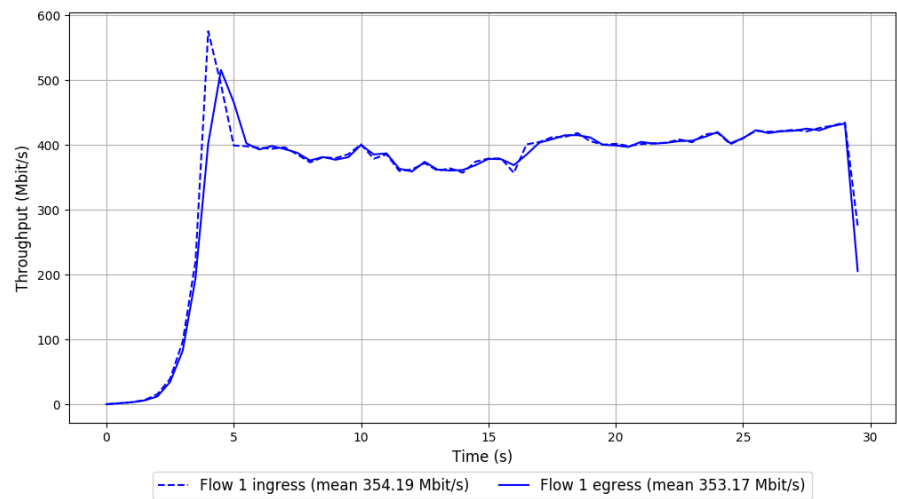
-- Flow 1:

Average throughput: 353.17 Mbit/s

95th percentile per-packet one-way delay: 90.731 ms

Loss rate: 0.97%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-15 22:46:00

End at: 2018-02-15 22:46:30

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.09 Mbit/s

95th percentile per-packet one-way delay: 97.060 ms

Loss rate: 0.69%

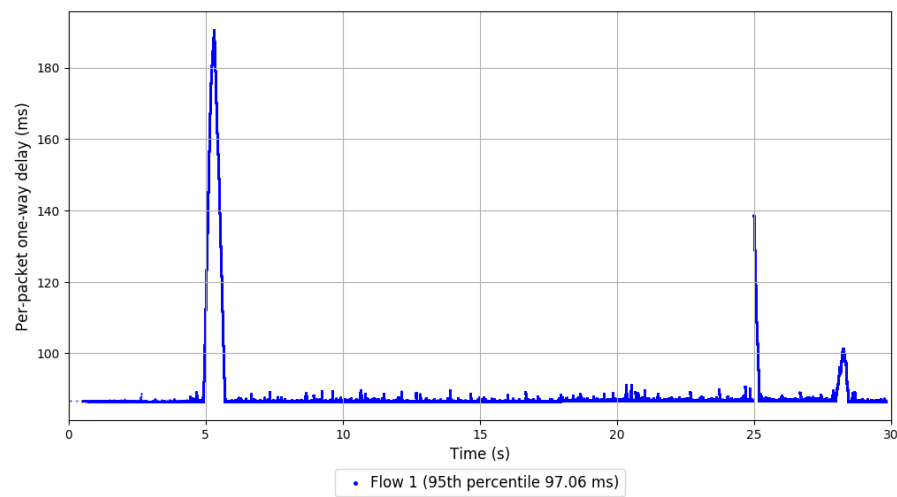
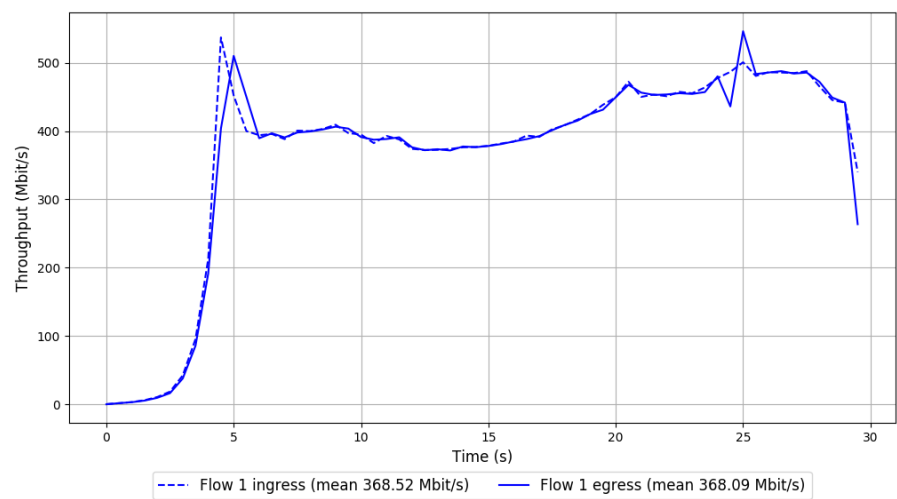
-- Flow 1:

Average throughput: 368.09 Mbit/s

95th percentile per-packet one-way delay: 97.060 ms

Loss rate: 0.69%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-15 23:01:24

End at: 2018-02-15 23:01:54

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.92 Mbit/s

95th percentile per-packet one-way delay: 96.004 ms

Loss rate: 0.72%

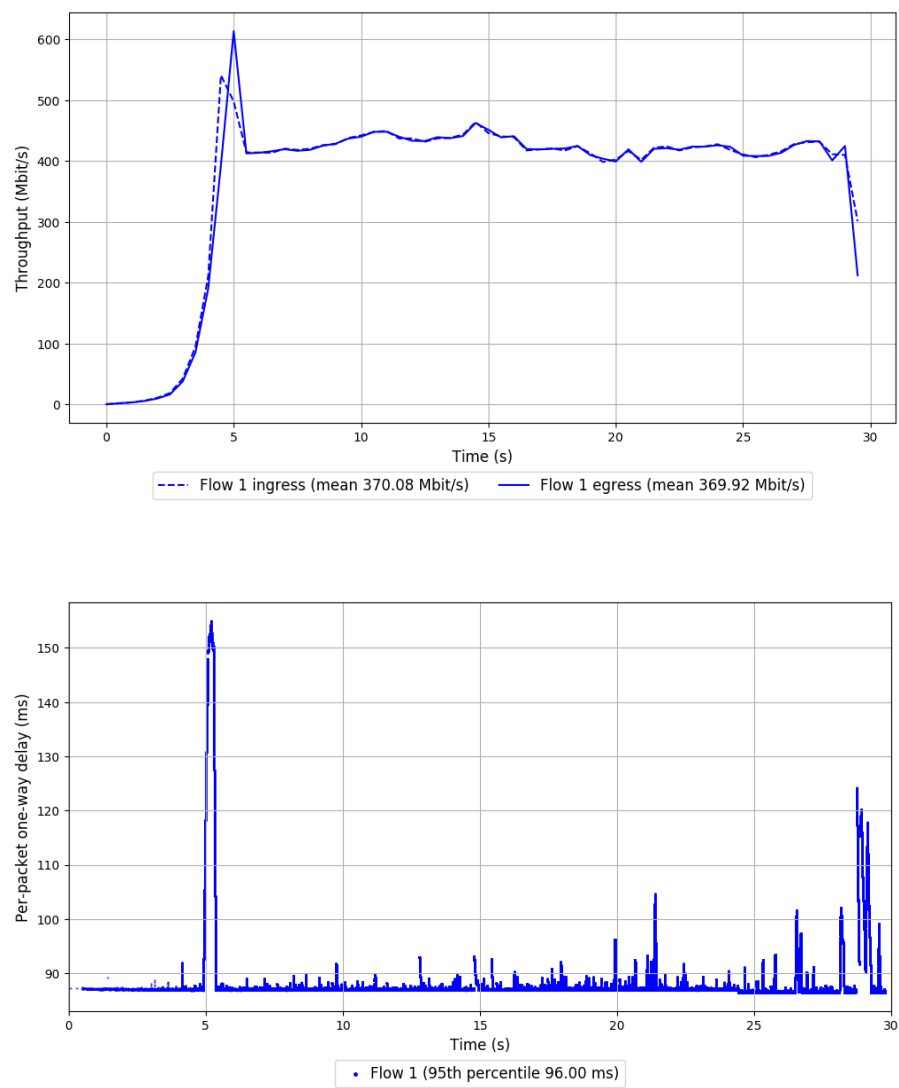
-- Flow 1:

Average throughput: 369.92 Mbit/s

95th percentile per-packet one-way delay: 96.004 ms

Loss rate: 0.72%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-15 23:17:12

End at: 2018-02-15 23:17:42

Below is generated by plot.py at 2018-02-16 04:26:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.59 Mbit/s

95th percentile per-packet one-way delay: 128.940 ms

Loss rate: 0.93%

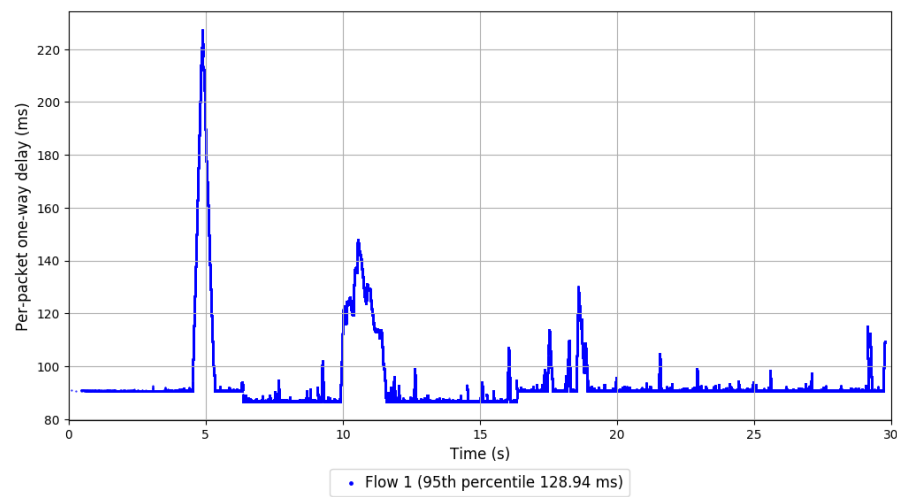
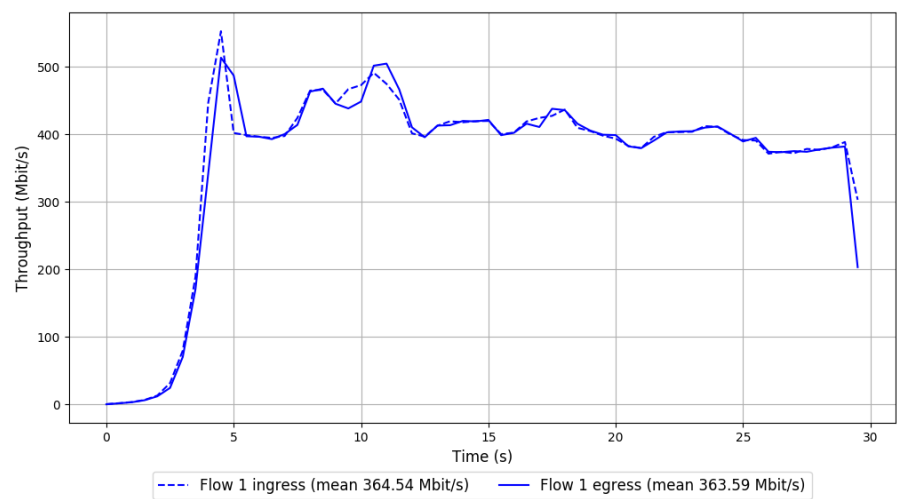
-- Flow 1:

Average throughput: 363.59 Mbit/s

95th percentile per-packet one-way delay: 128.940 ms

Loss rate: 0.93%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-15 23:33:01

End at: 2018-02-15 23:33:31

Below is generated by plot.py at 2018-02-16 04:28:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.09 Mbit/s

95th percentile per-packet one-way delay: 118.380 ms

Loss rate: 0.92%

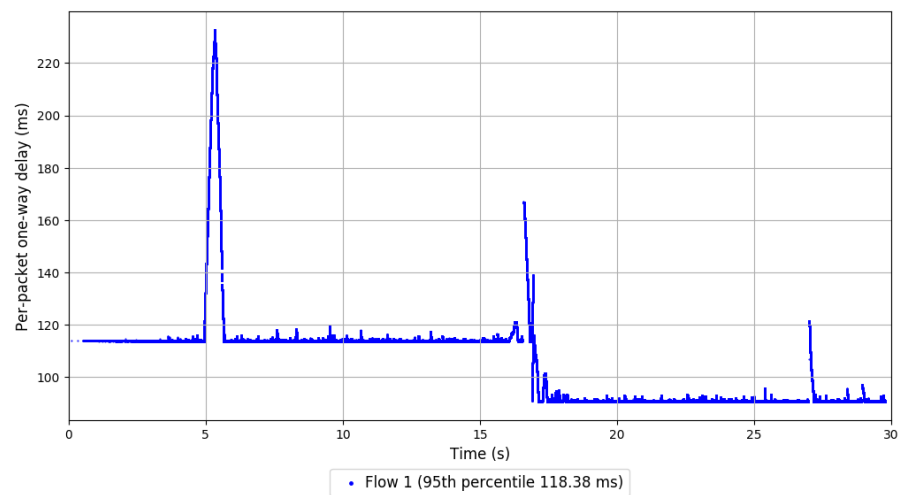
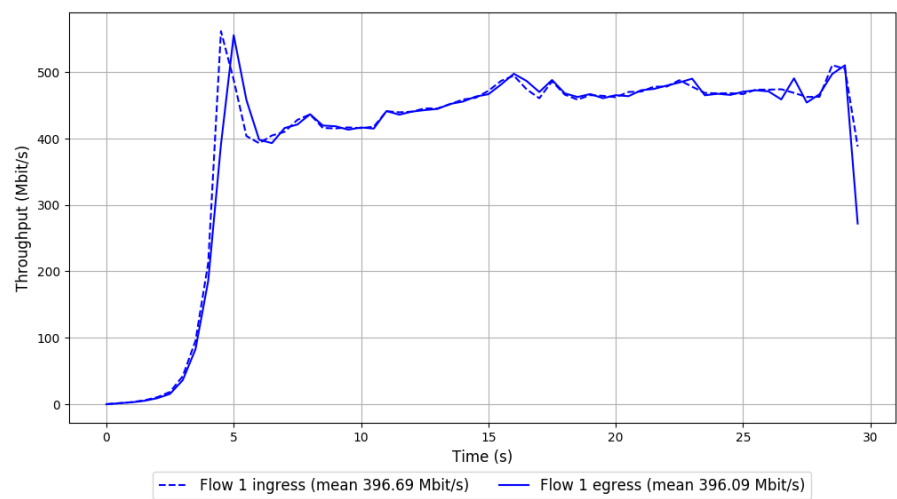
-- Flow 1:

Average throughput: 396.09 Mbit/s

95th percentile per-packet one-way delay: 118.380 ms

Loss rate: 0.92%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-15 23:48:37

End at: 2018-02-15 23:49:07

Below is generated by plot.py at 2018-02-16 04:28:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.07 Mbit/s

95th percentile per-packet one-way delay: 117.298 ms

Loss rate: 1.09%

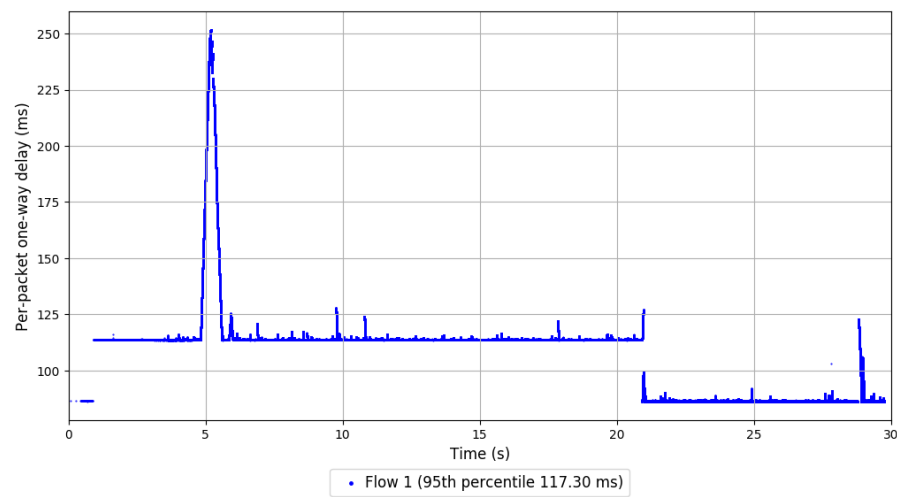
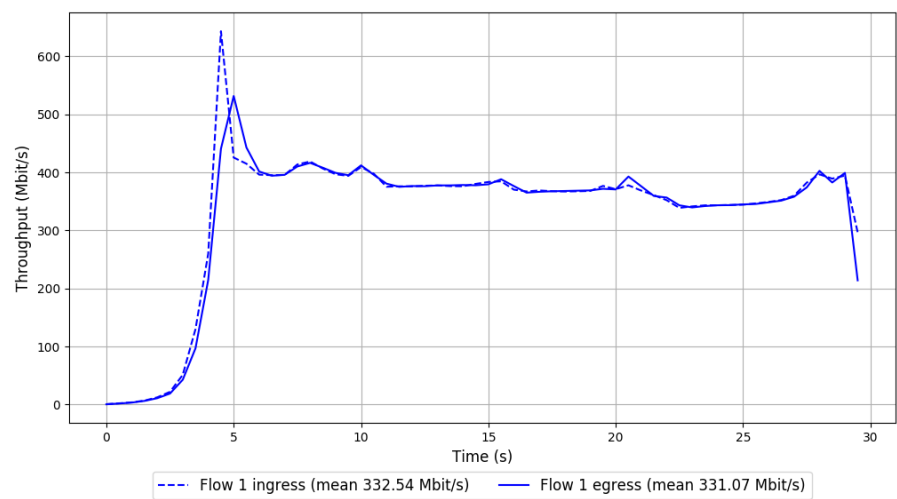
-- Flow 1:

Average throughput: 331.07 Mbit/s

95th percentile per-packet one-way delay: 117.298 ms

Loss rate: 1.09%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 00:03:57

End at: 2018-02-16 00:04:27

Below is generated by plot.py at 2018-02-16 04:28:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.24 Mbit/s

95th percentile per-packet one-way delay: 89.828 ms

Loss rate: 0.98%

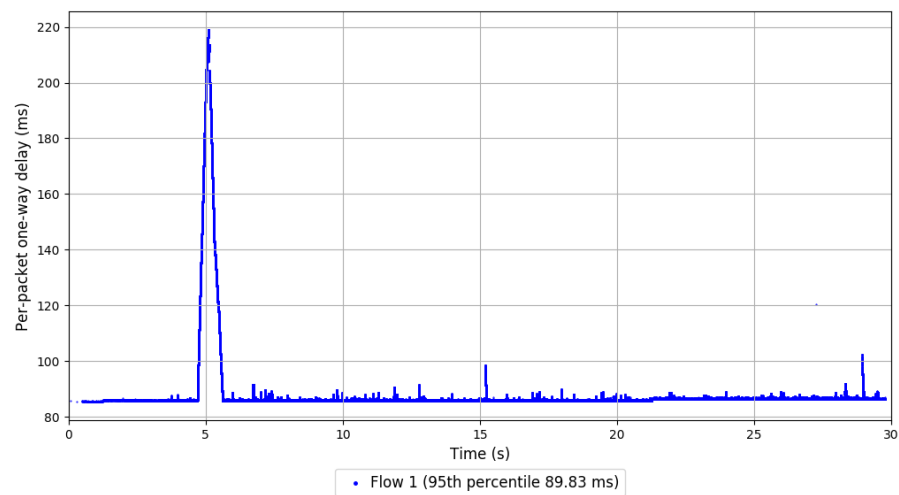
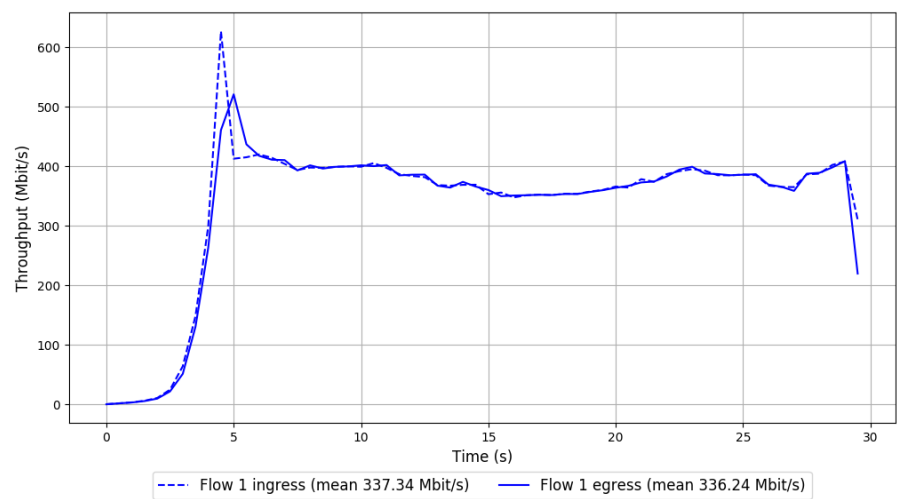
-- Flow 1:

Average throughput: 336.24 Mbit/s

95th percentile per-packet one-way delay: 89.828 ms

Loss rate: 0.98%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-16 00:19:20

End at: 2018-02-16 00:19:50

Below is generated by plot.py at 2018-02-16 04:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.20 Mbit/s

95th percentile per-packet one-way delay: 113.898 ms

Loss rate: 0.94%

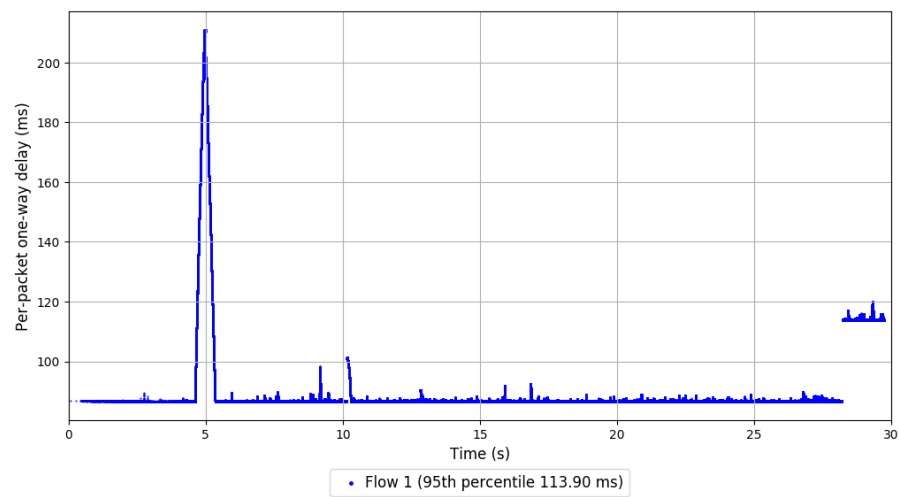
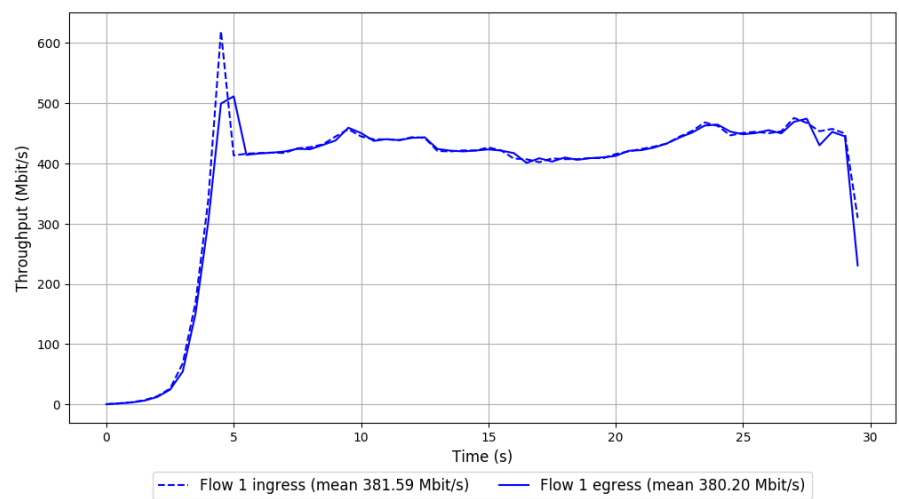
-- Flow 1:

Average throughput: 380.20 Mbit/s

95th percentile per-packet one-way delay: 113.898 ms

Loss rate: 0.94%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-16 00:34:47

End at: 2018-02-16 00:35:17

Below is generated by plot.py at 2018-02-16 04:29:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.32 Mbit/s

95th percentile per-packet one-way delay: 95.140 ms

Loss rate: 0.84%

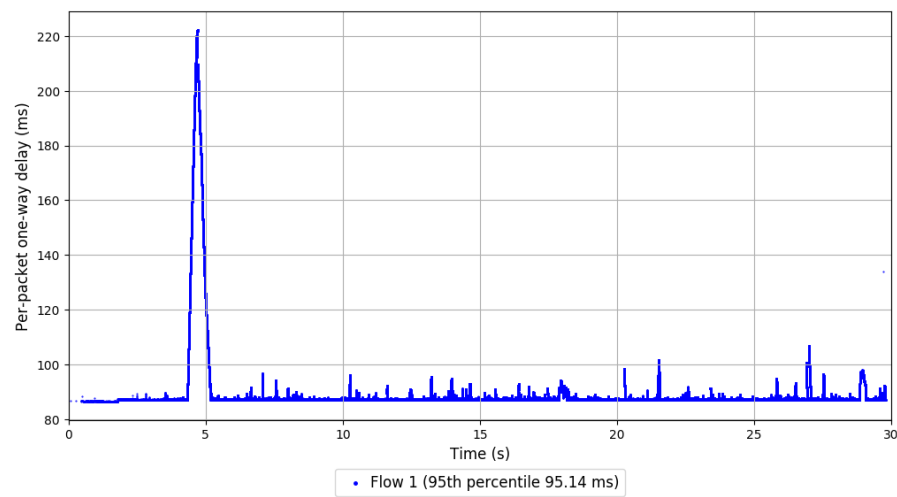
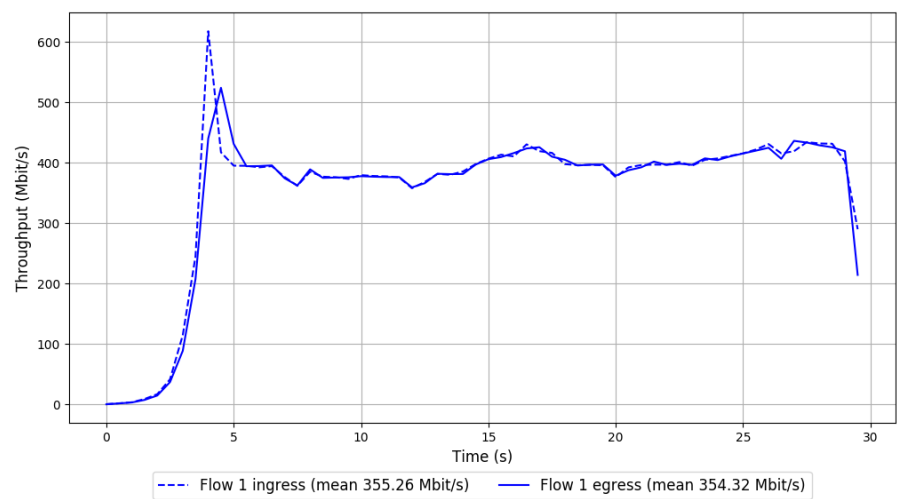
-- Flow 1:

Average throughput: 354.32 Mbit/s

95th percentile per-packet one-way delay: 95.140 ms

Loss rate: 0.84%

Run 10: Report of Vivace-latency — Data Link

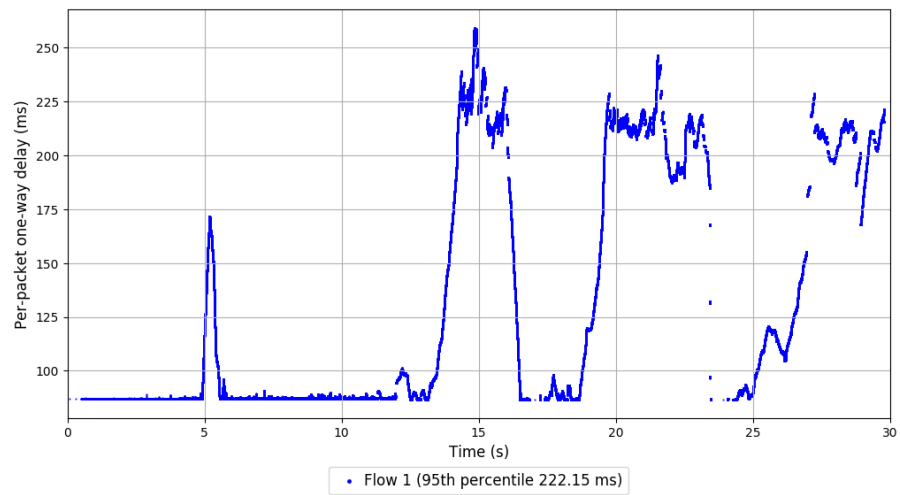
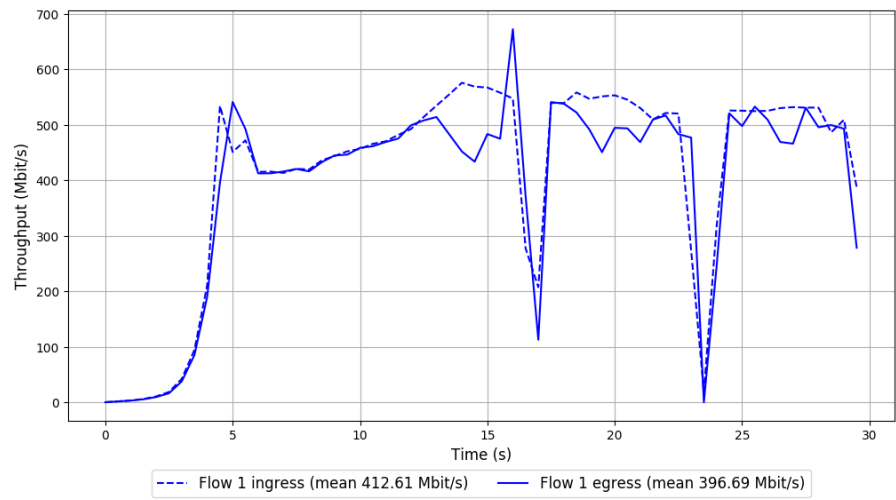


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-15 22:05:46
End at: 2018-02-15 22:06:16

# Below is generated by plot.py at 2018-02-16 04:32:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 396.69 Mbit/s
95th percentile per-packet one-way delay: 222.150 ms
Loss rate: 4.43%
-- Flow 1:
Average throughput: 396.69 Mbit/s
95th percentile per-packet one-way delay: 222.150 ms
Loss rate: 4.43%
```

Run 1: Report of Vivace-loss — Data Link

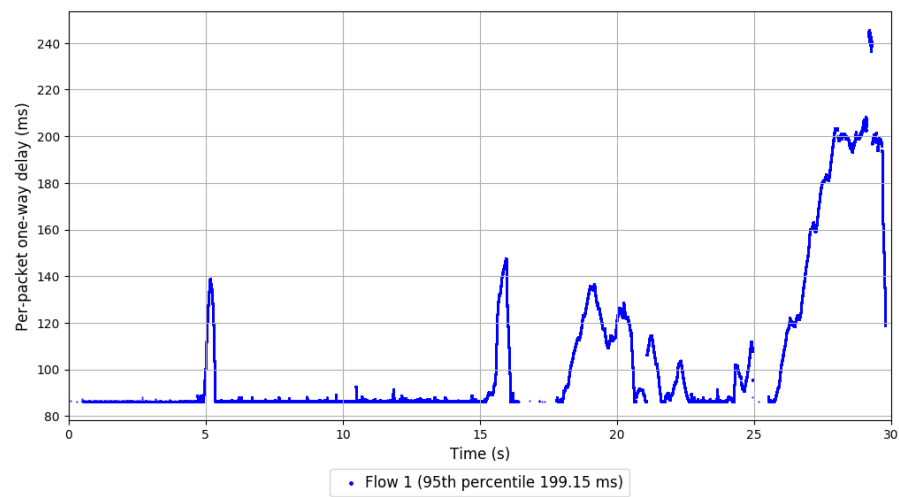
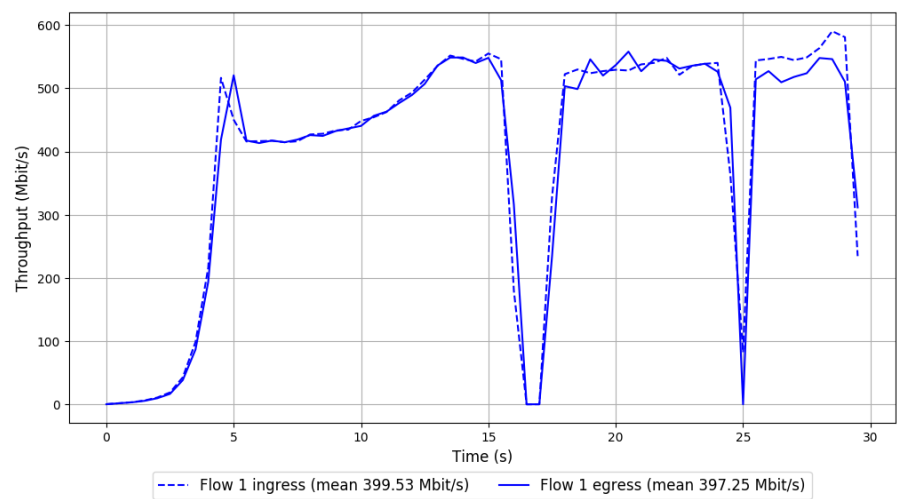


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-15 22:21:22
End at: 2018-02-15 22:21:52

# Below is generated by plot.py at 2018-02-16 04:33:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 397.25 Mbit/s
95th percentile per-packet one-way delay: 199.151 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 397.25 Mbit/s
95th percentile per-packet one-way delay: 199.151 ms
Loss rate: 1.16%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-15 22:37:18

End at: 2018-02-15 22:37:48

Below is generated by plot.py at 2018-02-16 04:33:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 316.32 Mbit/s

95th percentile per-packet one-way delay: 207.679 ms

Loss rate: 3.36%

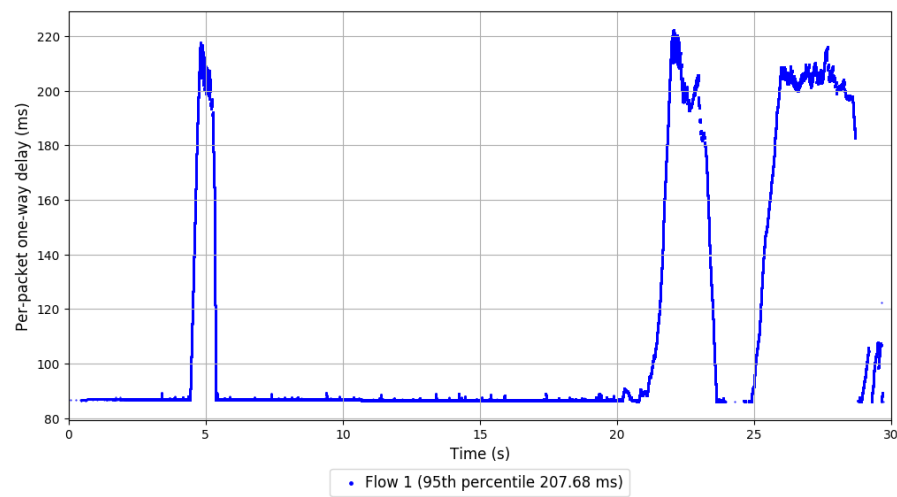
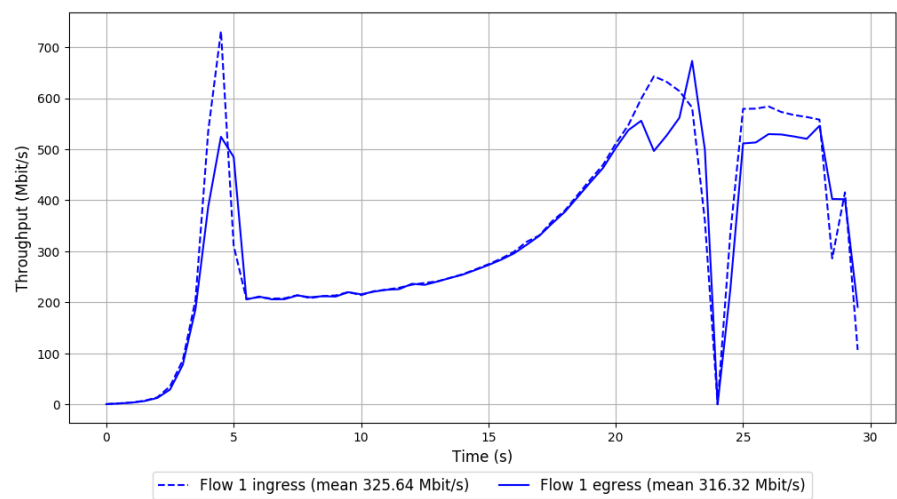
-- Flow 1:

Average throughput: 316.32 Mbit/s

95th percentile per-packet one-way delay: 207.679 ms

Loss rate: 3.36%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-15 22:52:36

End at: 2018-02-15 22:53:06

Below is generated by plot.py at 2018-02-16 04:35:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.13 Mbit/s

95th percentile per-packet one-way delay: 213.724 ms

Loss rate: 2.02%

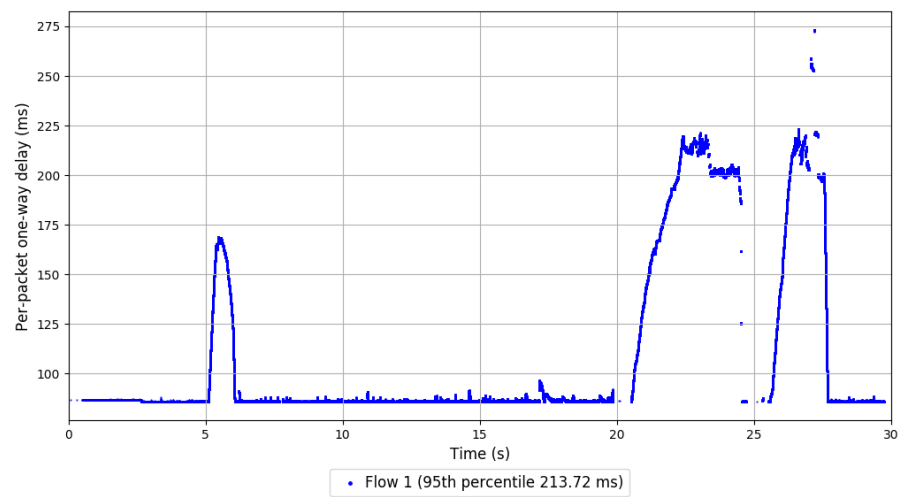
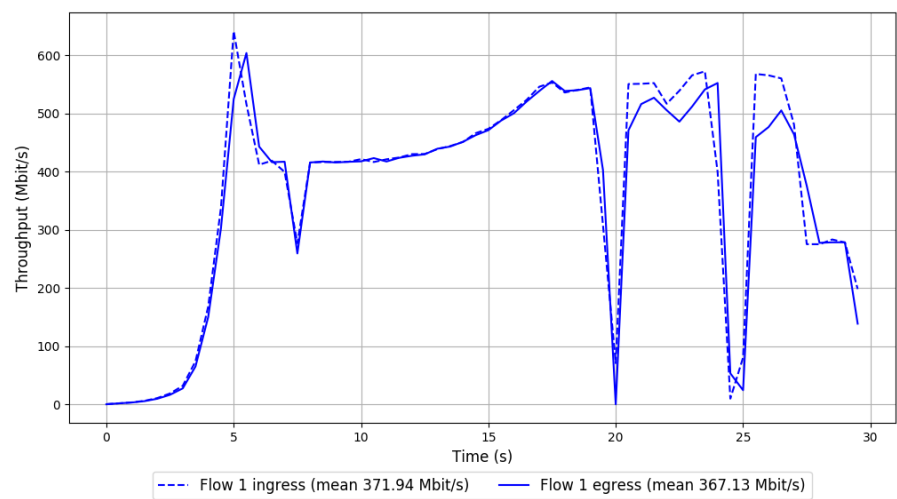
-- Flow 1:

Average throughput: 367.13 Mbit/s

95th percentile per-packet one-way delay: 213.724 ms

Loss rate: 2.02%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-15 23:08:22

End at: 2018-02-15 23:08:52

Below is generated by plot.py at 2018-02-16 04:35:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.65 Mbit/s

95th percentile per-packet one-way delay: 201.970 ms

Loss rate: 2.01%

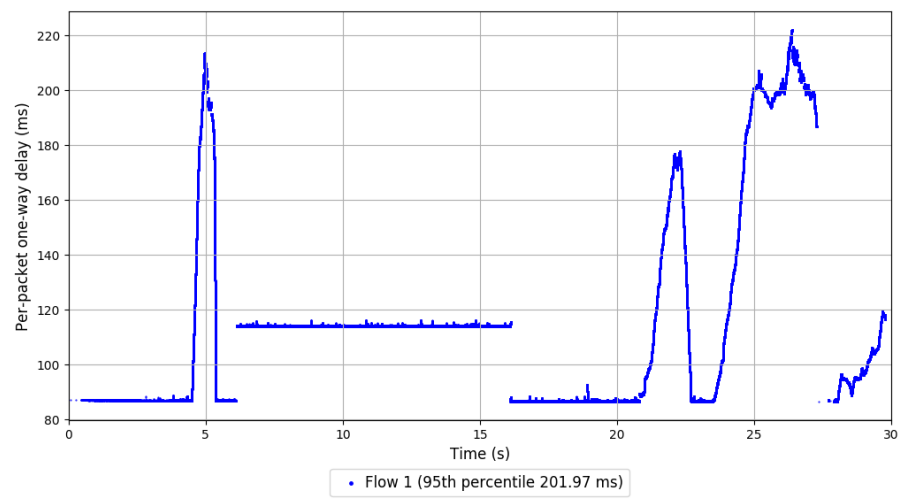
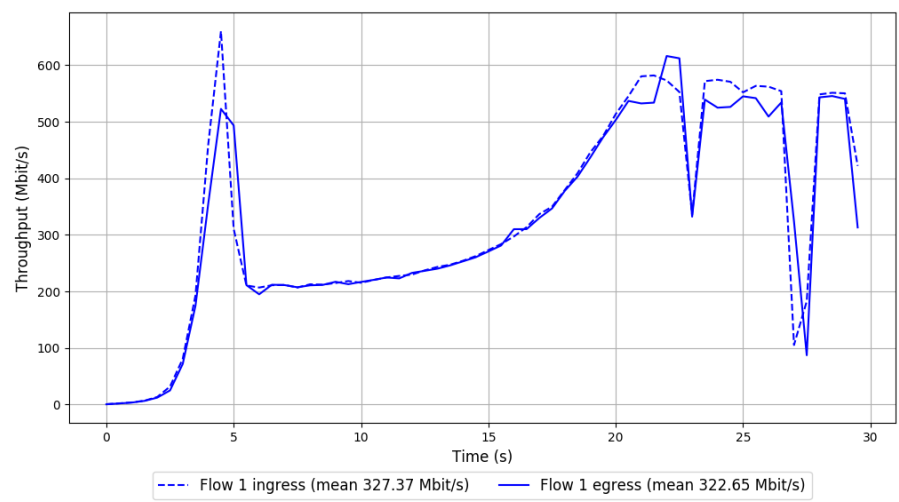
-- Flow 1:

Average throughput: 322.65 Mbit/s

95th percentile per-packet one-way delay: 201.970 ms

Loss rate: 2.01%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-15 23:24:03

End at: 2018-02-15 23:24:34

Below is generated by plot.py at 2018-02-16 04:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.42 Mbit/s

95th percentile per-packet one-way delay: 215.038 ms

Loss rate: 4.91%

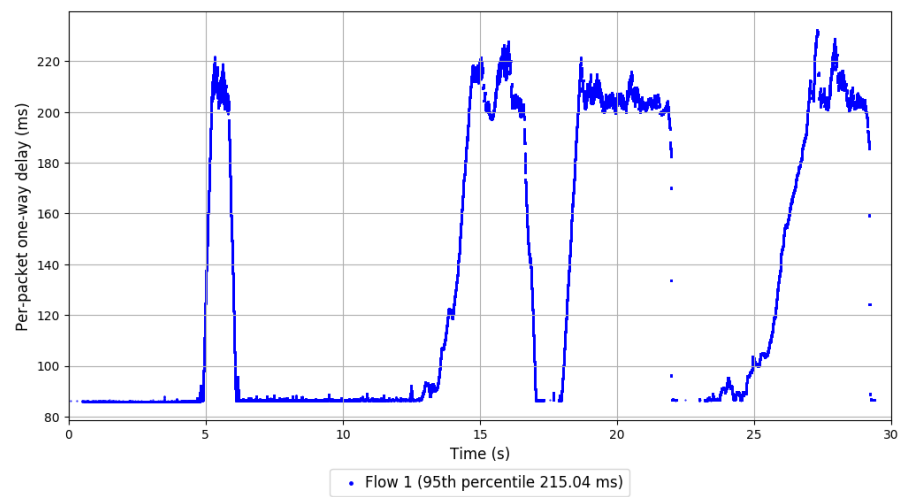
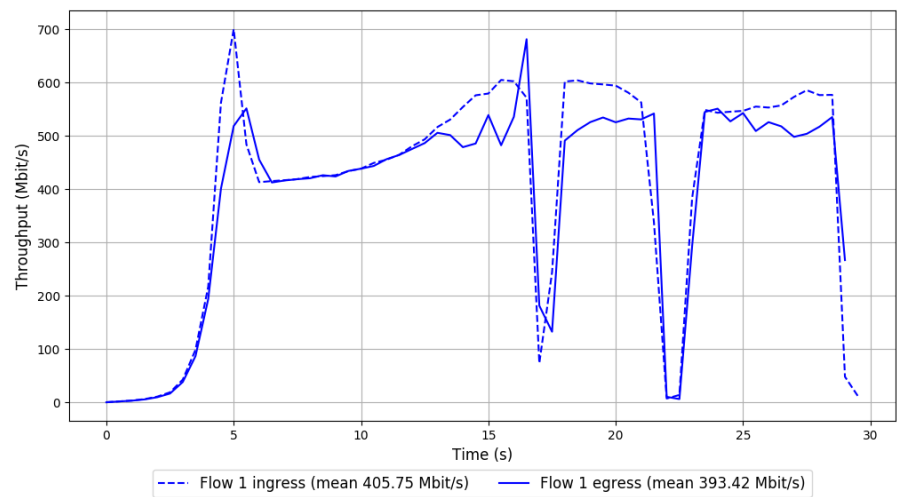
-- Flow 1:

Average throughput: 393.42 Mbit/s

95th percentile per-packet one-way delay: 215.038 ms

Loss rate: 4.91%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-15 23:39:46

End at: 2018-02-15 23:40:16

Below is generated by plot.py at 2018-02-16 04:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.67 Mbit/s

95th percentile per-packet one-way delay: 222.022 ms

Loss rate: 13.77%

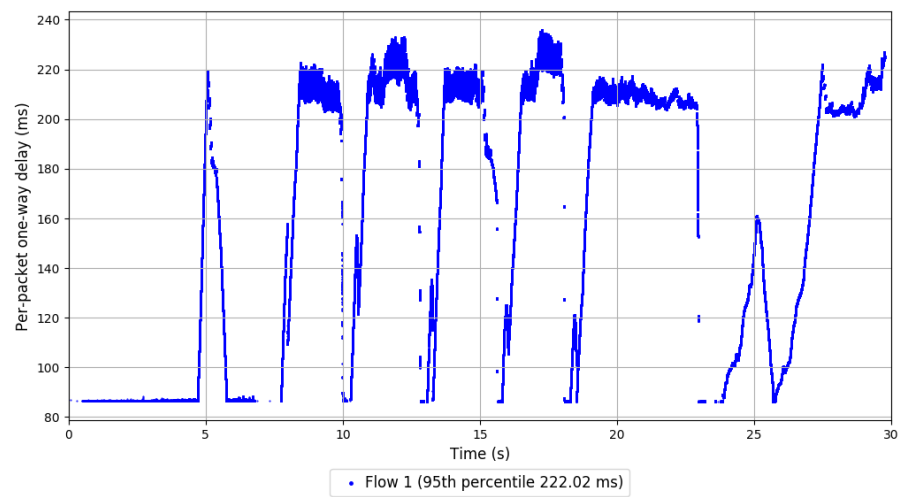
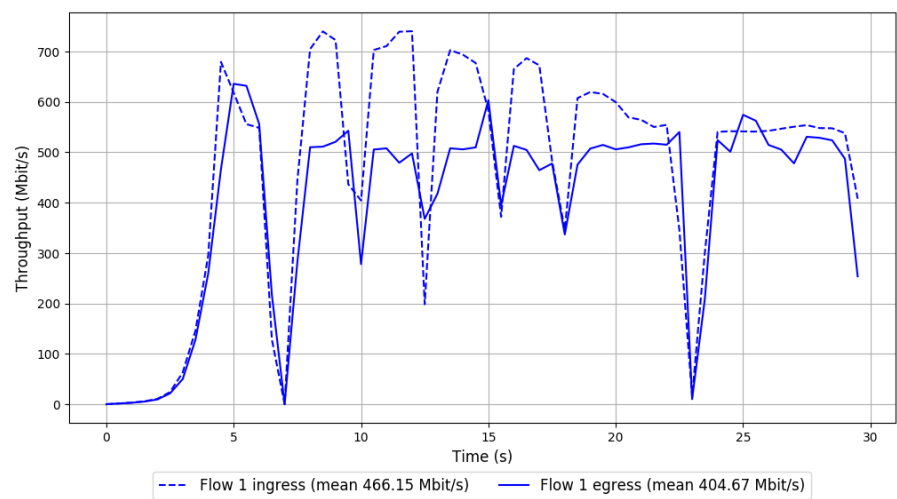
-- Flow 1:

Average throughput: 404.67 Mbit/s

95th percentile per-packet one-way delay: 222.022 ms

Loss rate: 13.77%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-15 23:55:18

End at: 2018-02-15 23:55:48

Below is generated by plot.py at 2018-02-16 04:37:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.67 Mbit/s

95th percentile per-packet one-way delay: 221.628 ms

Loss rate: 5.46%

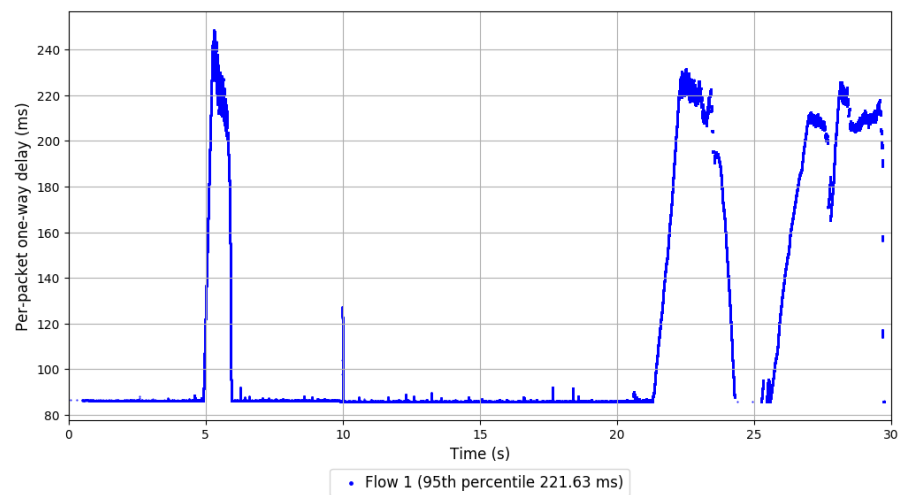
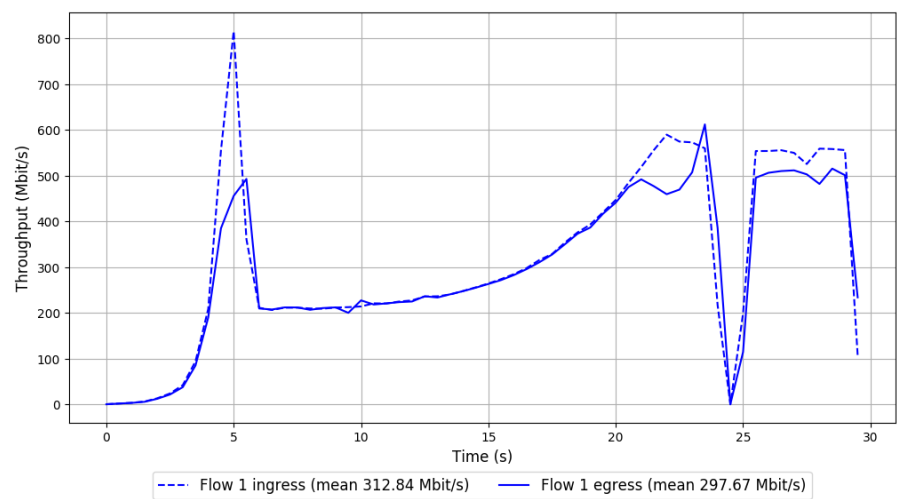
-- Flow 1:

Average throughput: 297.67 Mbit/s

95th percentile per-packet one-way delay: 221.628 ms

Loss rate: 5.46%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 00:10:28

End at: 2018-02-16 00:10:58

Below is generated by plot.py at 2018-02-16 04:37:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.89 Mbit/s

95th percentile per-packet one-way delay: 208.865 ms

Loss rate: 4.50%

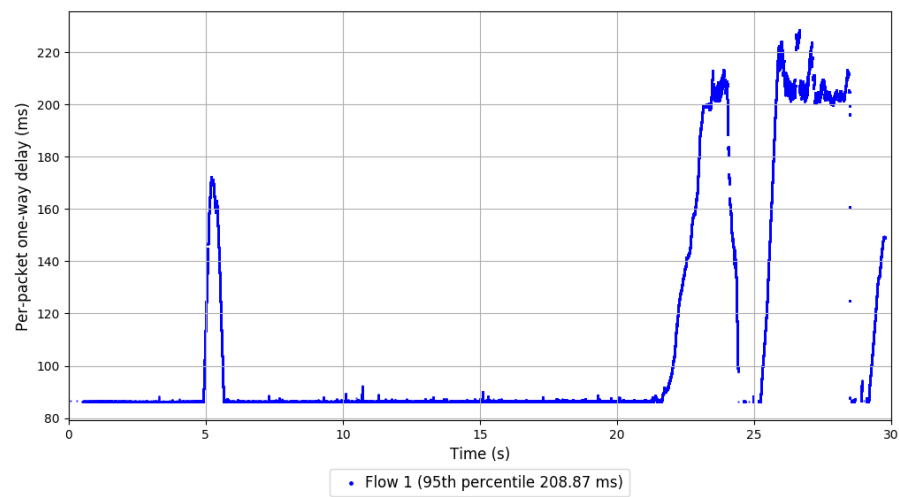
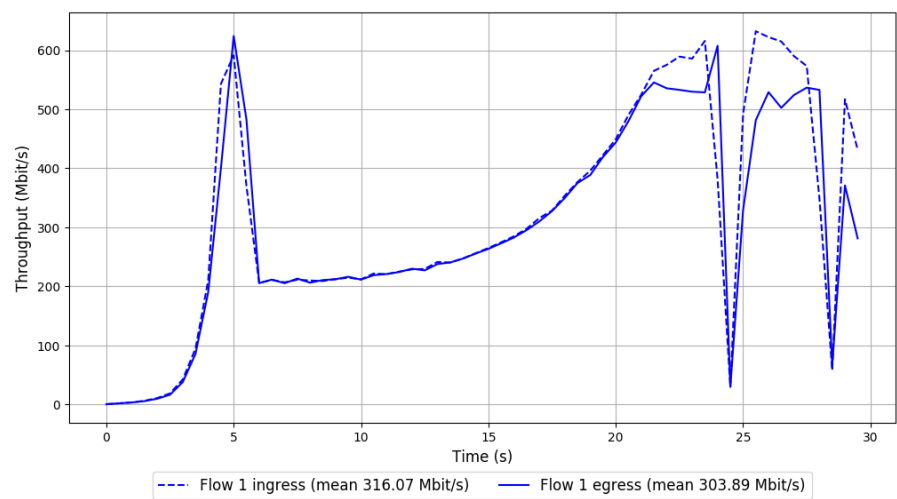
-- Flow 1:

Average throughput: 303.89 Mbit/s

95th percentile per-packet one-way delay: 208.865 ms

Loss rate: 4.50%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 00:25:58

End at: 2018-02-16 00:26:28

Below is generated by plot.py at 2018-02-16 04:38:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.59 Mbit/s

95th percentile per-packet one-way delay: 217.922 ms

Loss rate: 4.84%

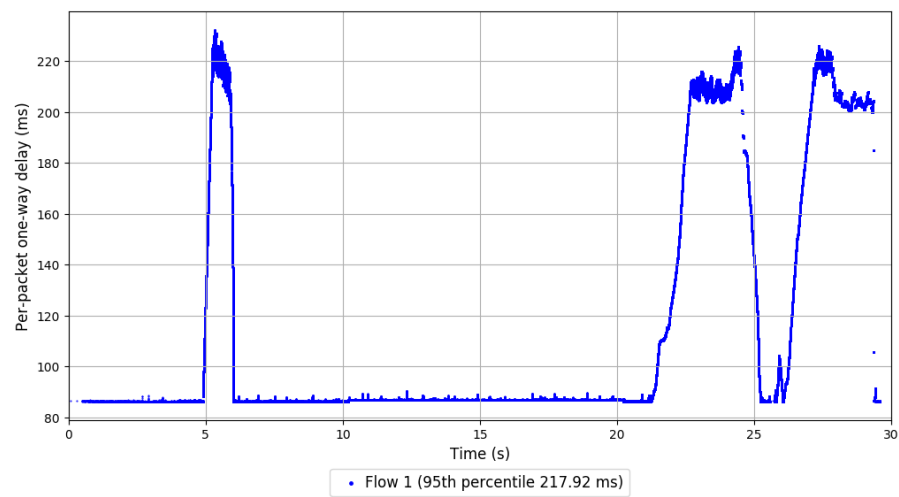
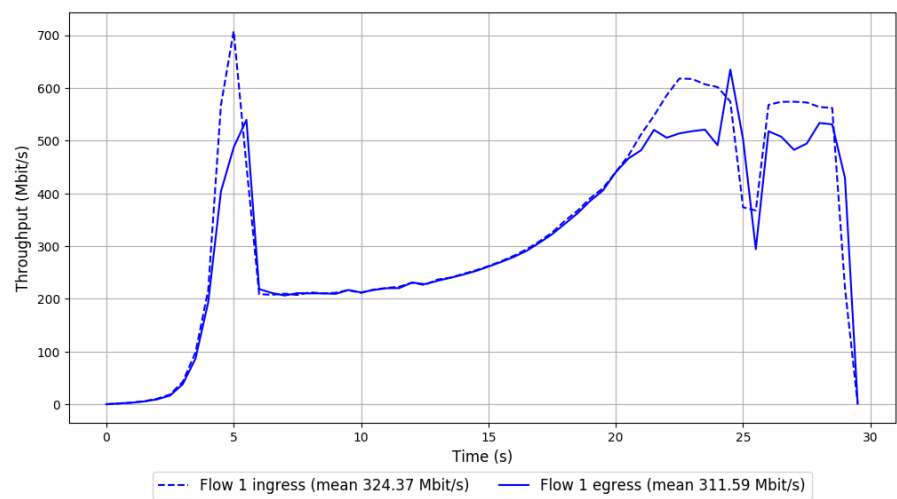
-- Flow 1:

Average throughput: 311.59 Mbit/s

95th percentile per-packet one-way delay: 217.922 ms

Loss rate: 4.84%

Run 10: Report of Vivace-loss — Data Link

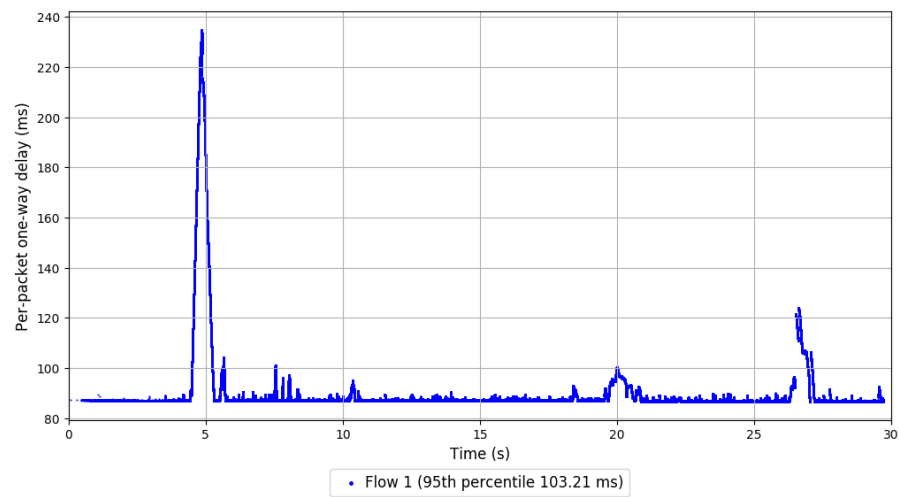
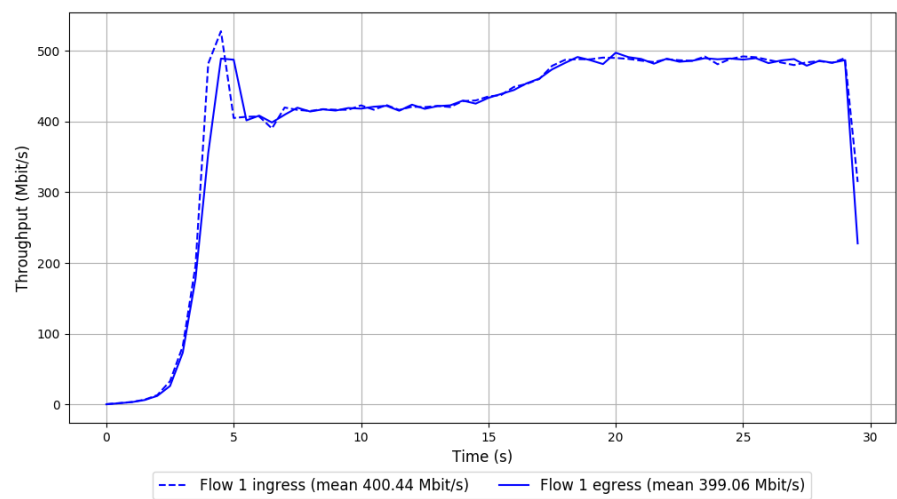


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-15 22:03:57
End at: 2018-02-15 22:04:27

# Below is generated by plot.py at 2018-02-16 04:41:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 399.06 Mbit/s
95th percentile per-packet one-way delay: 103.206 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 399.06 Mbit/s
95th percentile per-packet one-way delay: 103.206 ms
Loss rate: 0.94%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-15 22:19:34

End at: 2018-02-15 22:20:04

Below is generated by plot.py at 2018-02-16 04:42:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.36 Mbit/s

95th percentile per-packet one-way delay: 108.487 ms

Loss rate: 0.98%

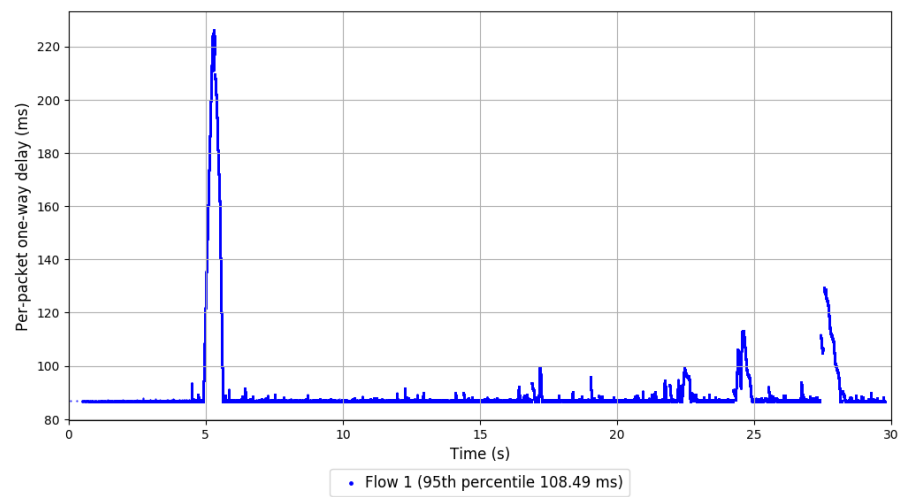
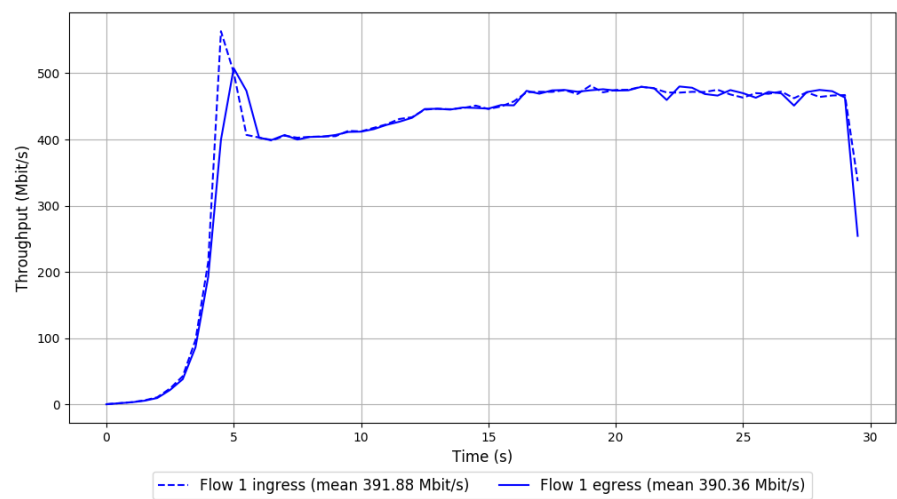
-- Flow 1:

Average throughput: 390.36 Mbit/s

95th percentile per-packet one-way delay: 108.487 ms

Loss rate: 0.98%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-15 22:35:27

End at: 2018-02-15 22:35:57

Below is generated by plot.py at 2018-02-16 04:43:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 417.14 Mbit/s

95th percentile per-packet one-way delay: 109.557 ms

Loss rate: 1.25%

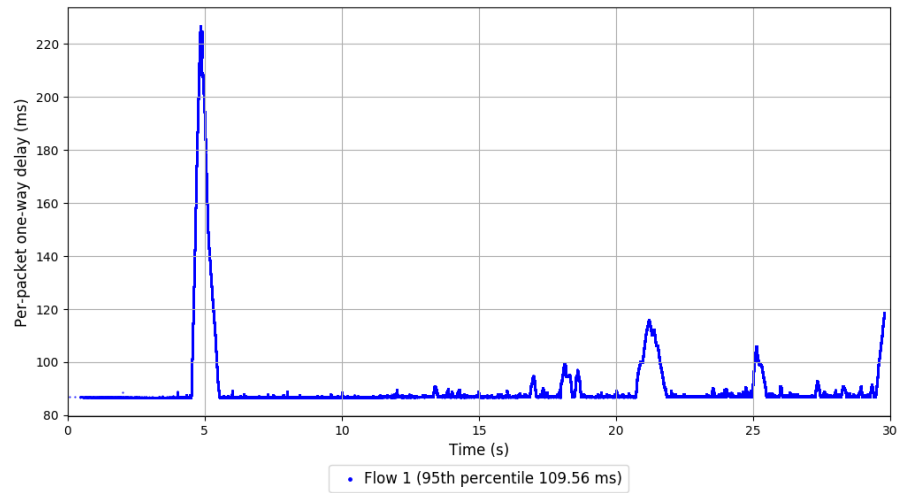
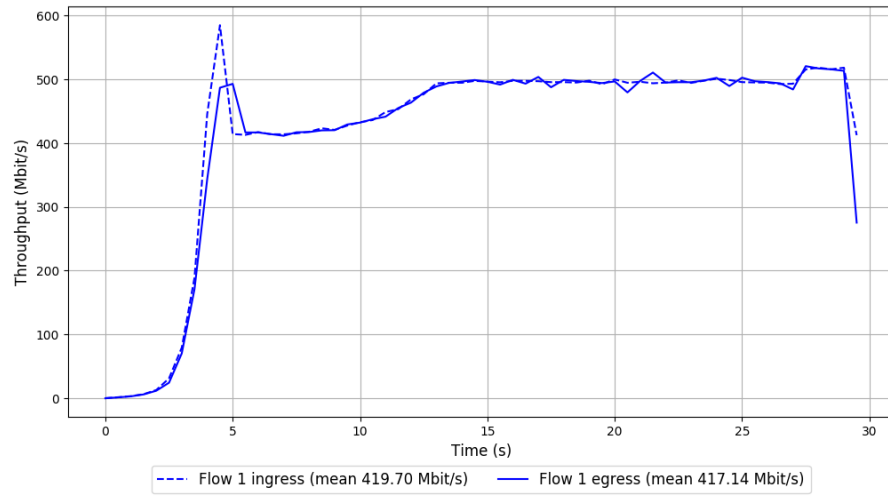
-- Flow 1:

Average throughput: 417.14 Mbit/s

95th percentile per-packet one-way delay: 109.557 ms

Loss rate: 1.25%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-15 22:50:47

End at: 2018-02-15 22:51:18

Below is generated by plot.py at 2018-02-16 04:43:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.87 Mbit/s

95th percentile per-packet one-way delay: 166.924 ms

Loss rate: 0.96%

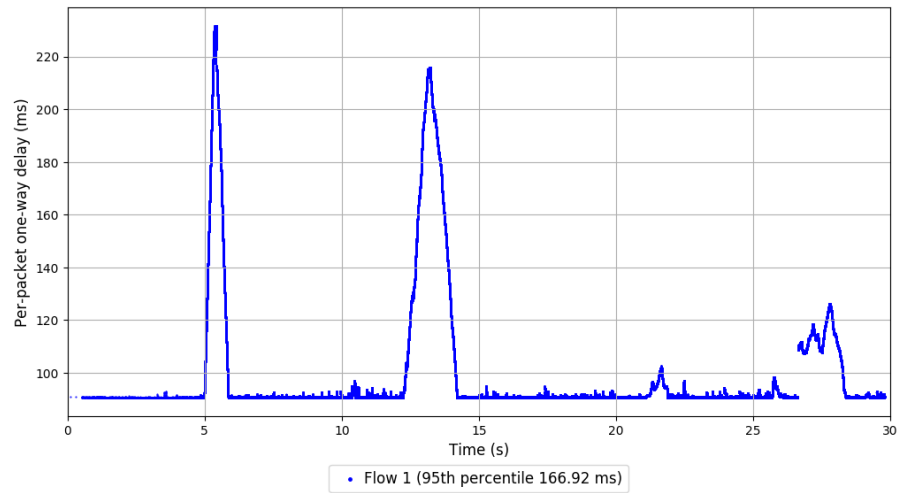
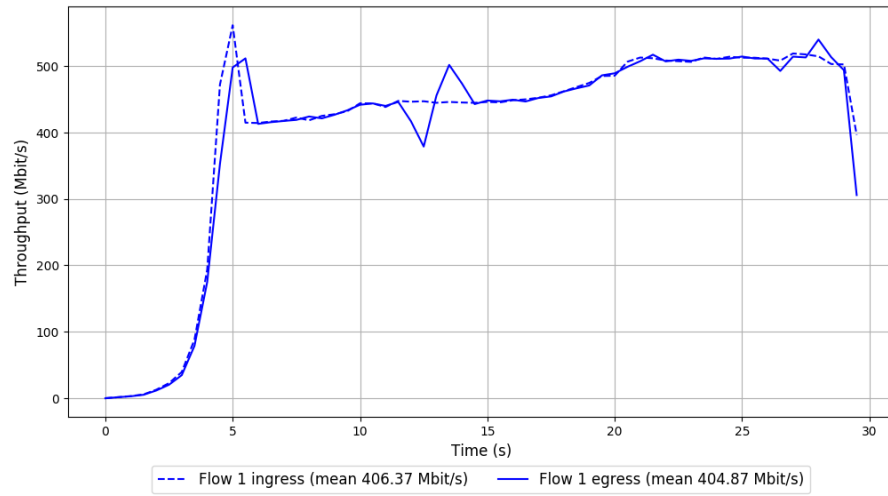
-- Flow 1:

Average throughput: 404.87 Mbit/s

95th percentile per-packet one-way delay: 166.924 ms

Loss rate: 0.96%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-15 23:06:35

End at: 2018-02-15 23:07:05

Below is generated by plot.py at 2018-02-16 04:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.29 Mbit/s

95th percentile per-packet one-way delay: 210.708 ms

Loss rate: 1.16%

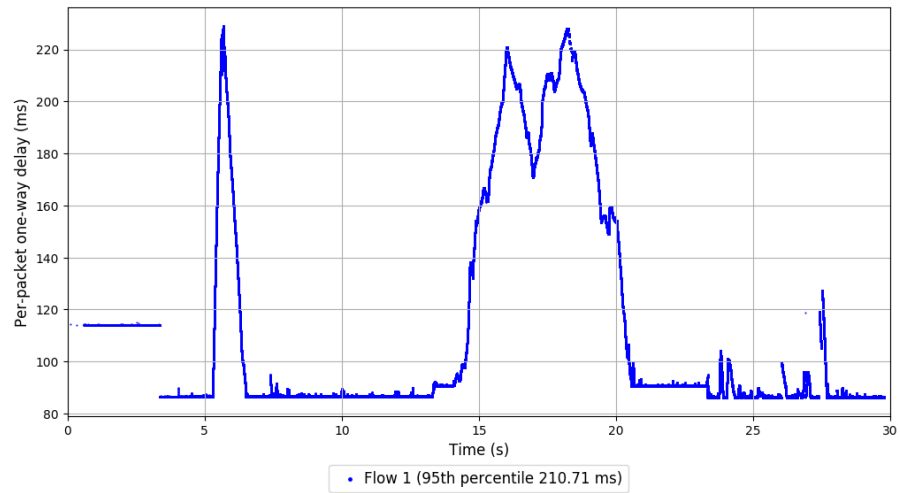
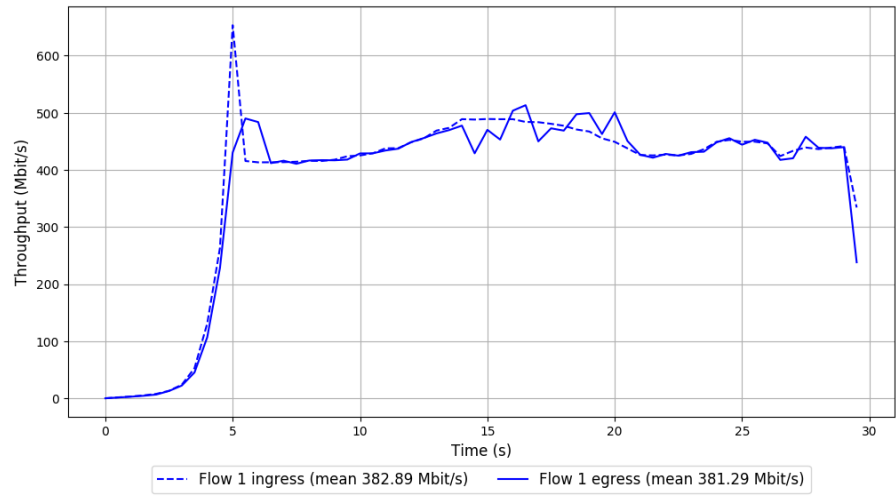
-- Flow 1:

Average throughput: 381.29 Mbit/s

95th percentile per-packet one-way delay: 210.708 ms

Loss rate: 1.16%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-15 23:22:14

End at: 2018-02-15 23:22:44

Below is generated by plot.py at 2018-02-16 04:44:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.30 Mbit/s

95th percentile per-packet one-way delay: 140.413 ms

Loss rate: 0.86%

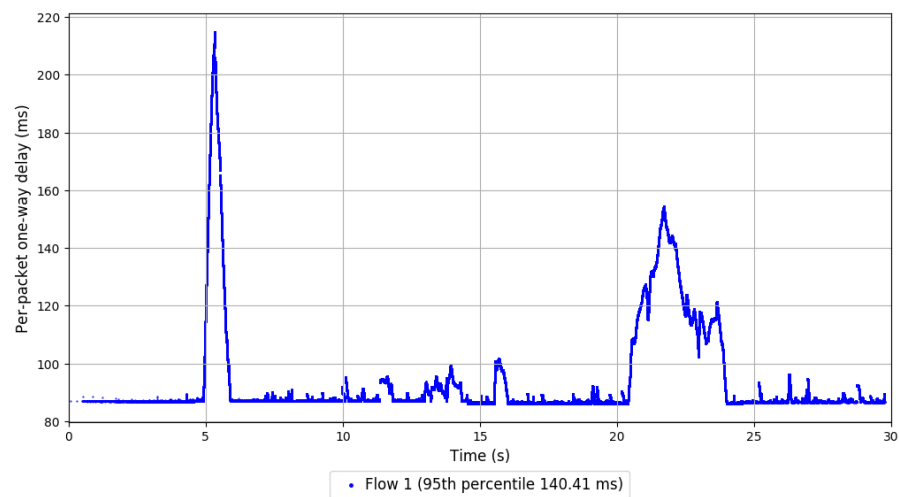
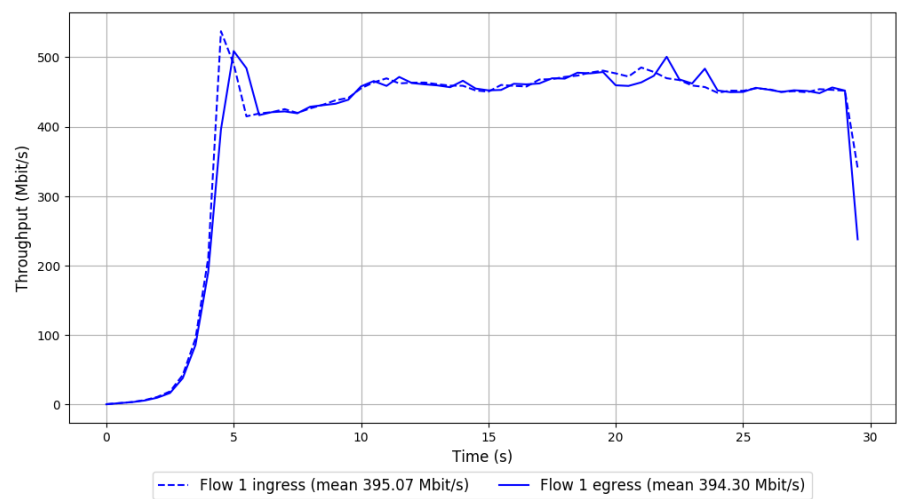
-- Flow 1:

Average throughput: 394.30 Mbit/s

95th percentile per-packet one-way delay: 140.413 ms

Loss rate: 0.86%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-15 23:37:57

End at: 2018-02-15 23:38:27

Below is generated by plot.py at 2018-02-16 04:44:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.36 Mbit/s

95th percentile per-packet one-way delay: 90.265 ms

Loss rate: 0.57%

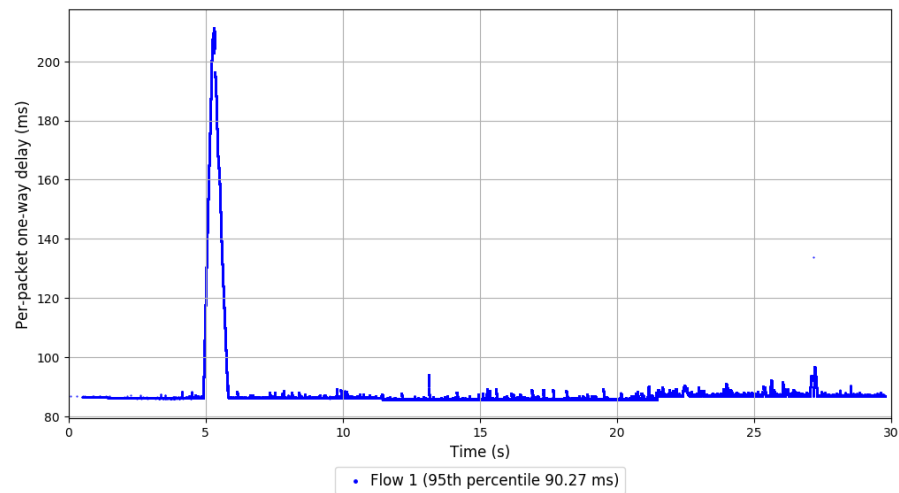
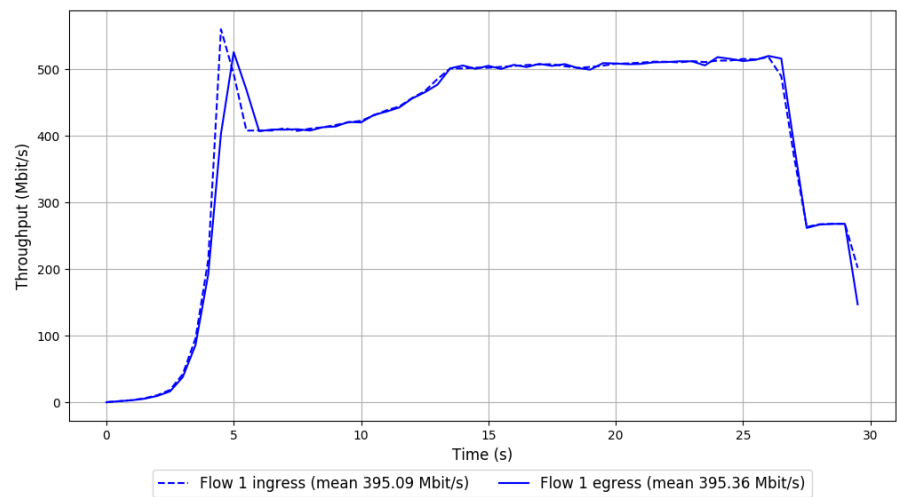
-- Flow 1:

Average throughput: 395.36 Mbit/s

95th percentile per-packet one-way delay: 90.265 ms

Loss rate: 0.57%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-15 23:53:29

End at: 2018-02-15 23:53:59

Below is generated by plot.py at 2018-02-16 04:44:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.45 Mbit/s

95th percentile per-packet one-way delay: 96.849 ms

Loss rate: 0.44%

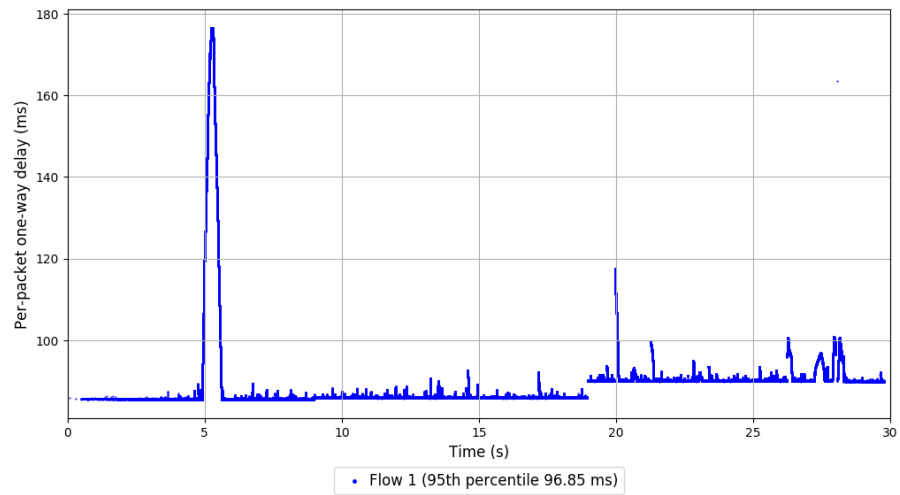
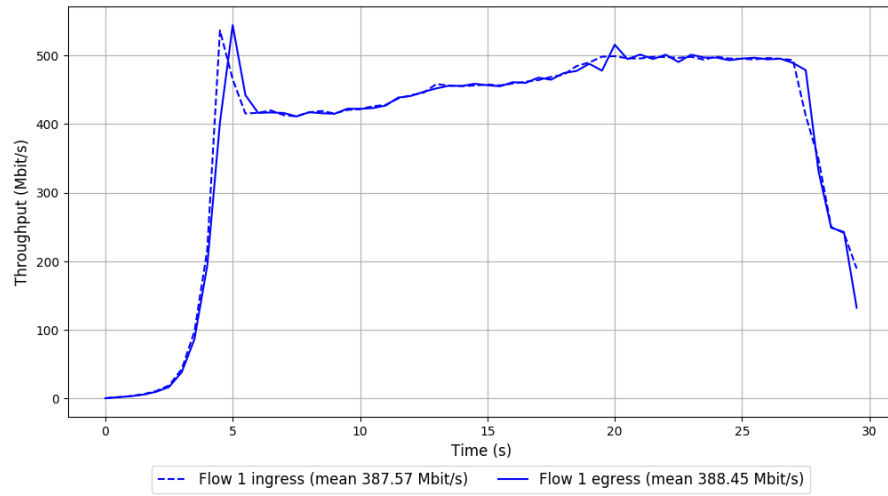
-- Flow 1:

Average throughput: 388.45 Mbit/s

95th percentile per-packet one-way delay: 96.849 ms

Loss rate: 0.44%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 00:08:38

End at: 2018-02-16 00:09:08

Below is generated by plot.py at 2018-02-16 04:45:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.64 Mbit/s

95th percentile per-packet one-way delay: 189.161 ms

Loss rate: 1.54%

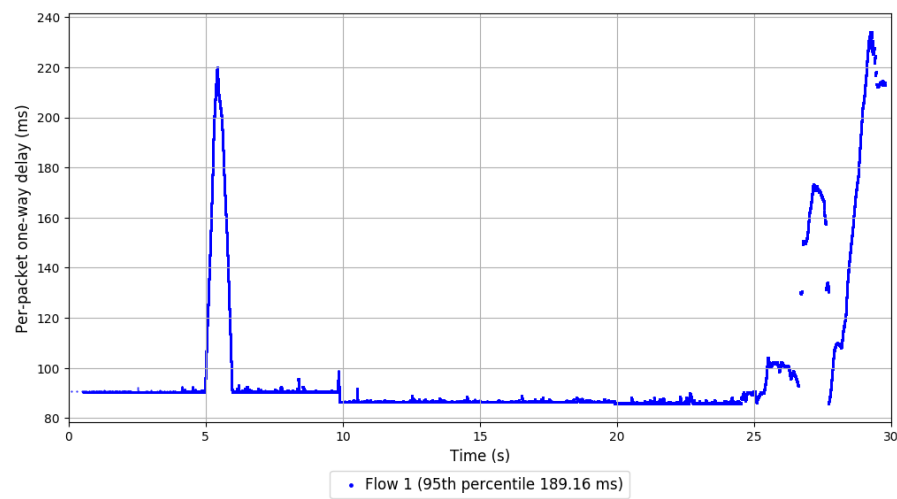
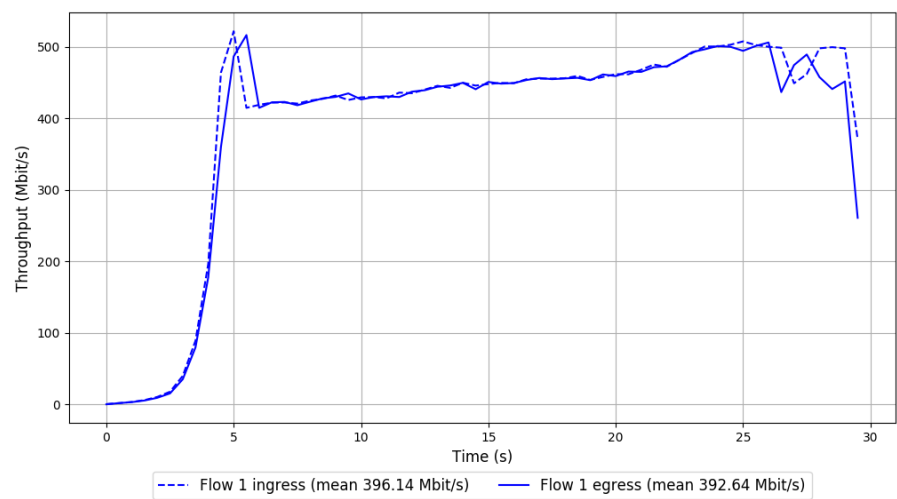
-- Flow 1:

Average throughput: 392.64 Mbit/s

95th percentile per-packet one-way delay: 189.161 ms

Loss rate: 1.54%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 00:24:12

End at: 2018-02-16 00:24:42

Below is generated by plot.py at 2018-02-16 04:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.24 Mbit/s

95th percentile per-packet one-way delay: 120.491 ms

Loss rate: 0.75%

-- Flow 1:

Average throughput: 381.24 Mbit/s

95th percentile per-packet one-way delay: 120.491 ms

Loss rate: 0.75%

Run 10: Report of Vivace-LTE — Data Link

