

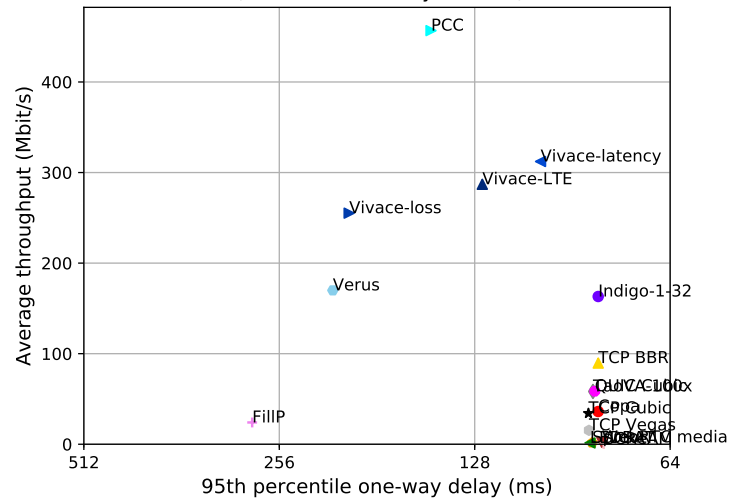
Pantheon Report

Generated at 2018-01-30 16:39:41 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE London Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

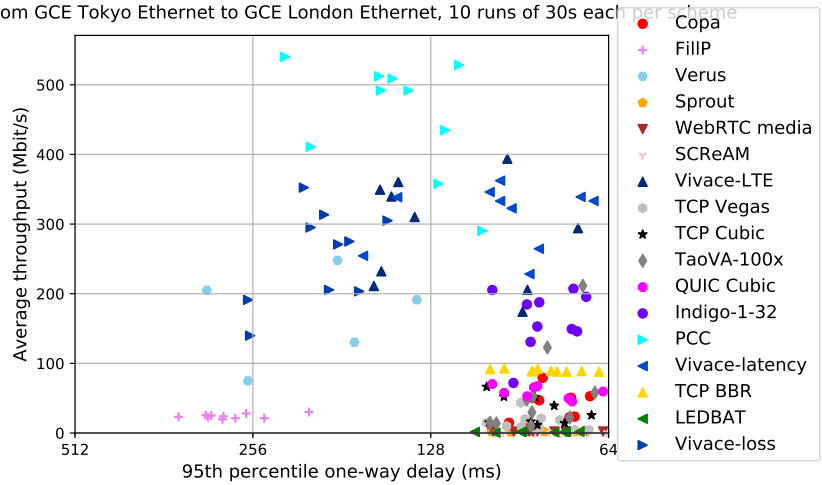
Git summary:

```
branch: master @ 70217998b3c9a7166a95460a70c0854d1326e100
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ fb9c9ab842e5614ad52911a76fb9bd1c1b0dca86
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Tokyo Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	89.64	82.60	1.13
TCP Cubic	10	34.13	85.52	1.63
LEDBAT	9	1.41	85.06	1.73
PCC	10	456.72	149.44	2.51
QUIC Cubic	8	58.57	83.61	1.00
SCReAM	10	0.21	81.01	0.78
WebRTC media	10	2.10	81.55	0.93
Sprout	10	1.67	84.38	1.29
TaoVA-100x	10	58.30	84.16	0.99
TCP Vegas	10	15.37	85.36	1.67
Verus	5	169.89	211.75	5.23
Copa	10	36.13	82.62	0.68
FillP	10	24.05	281.84	12.24
Indigo-1-32	10	163.13	82.60	0.91
Vivace-latency	10	312.21	101.36	1.04
Vivace-loss	10	255.16	199.80	4.01
Vivace-LTE	10	287.08	124.60	1.35

Run 1: Statistics of TCP BBR

Start at: 2018-01-30 10:59:26

End at: 2018-01-30 10:59:56

Below is generated by plot.py at 2018-01-30 15:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 84.388 ms

Loss rate: 0.78%

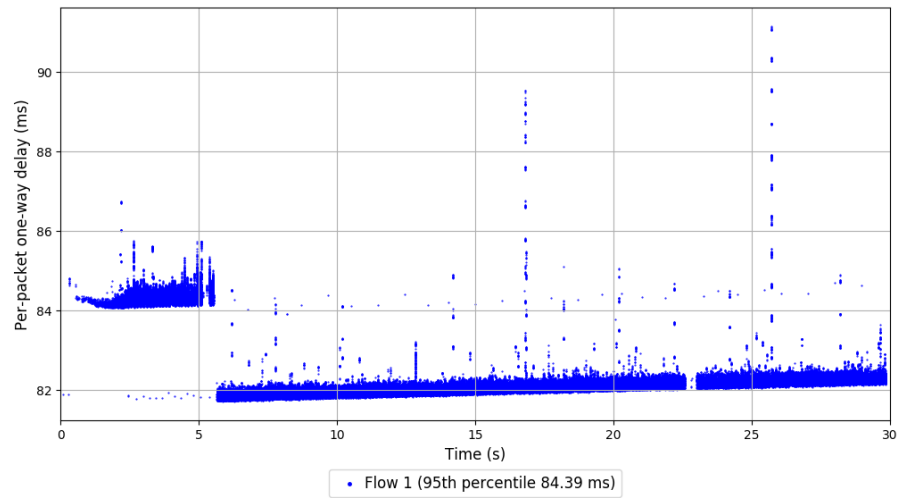
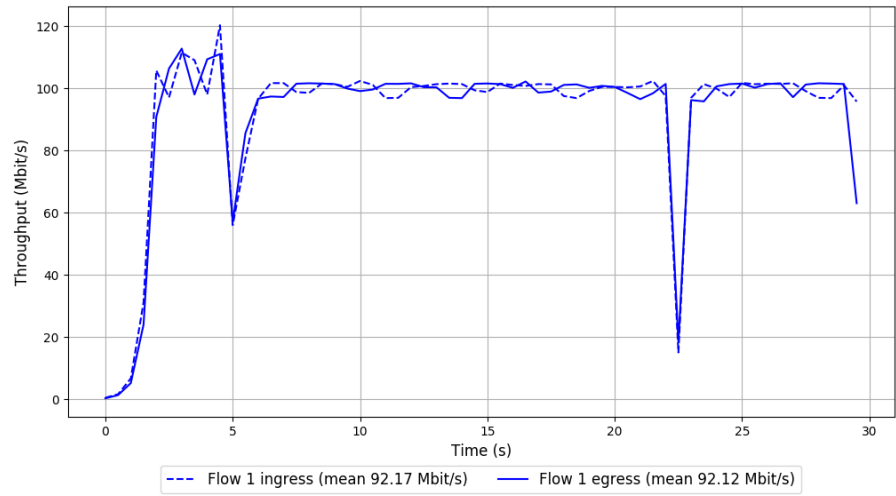
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 84.388 ms

Loss rate: 0.78%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-30 11:14:07

End at: 2018-01-30 11:14:37

Below is generated by plot.py at 2018-01-30 15:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 86.270 ms

Loss rate: 0.84%

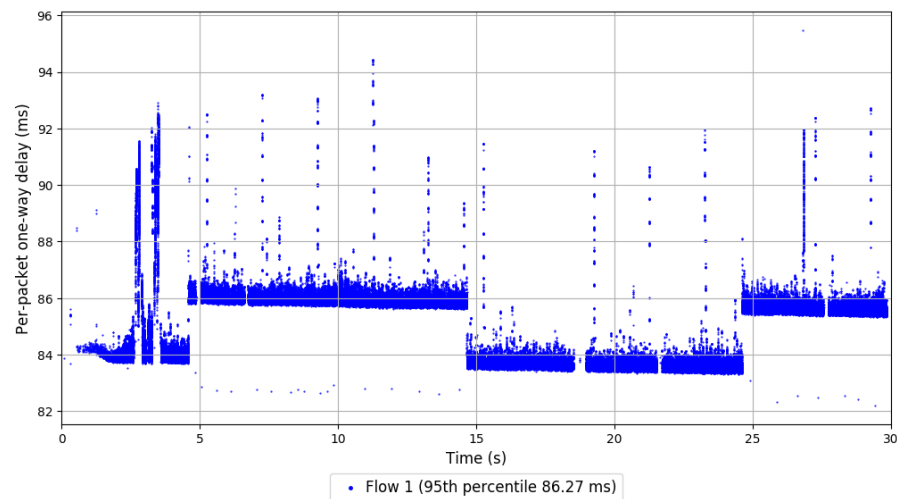
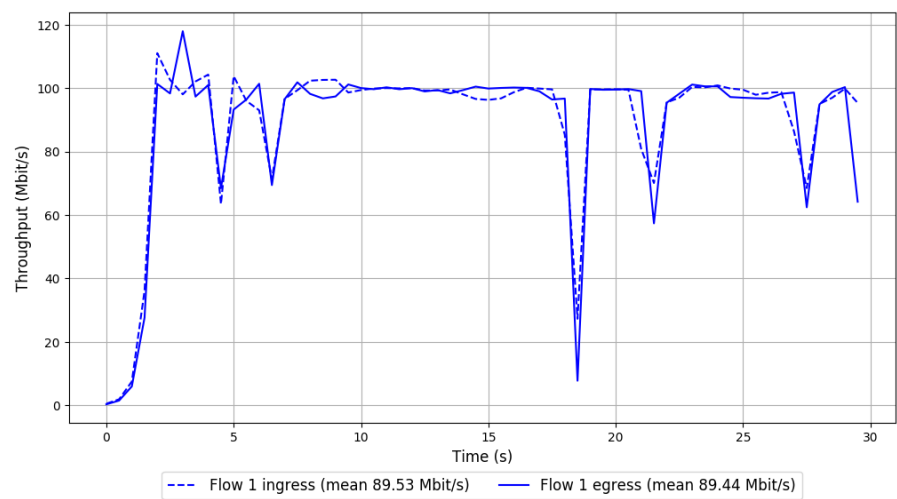
-- Flow 1:

Average throughput: 89.44 Mbit/s

95th percentile per-packet one-way delay: 86.270 ms

Loss rate: 0.84%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-30 11:28:44

End at: 2018-01-30 11:29:14

Below is generated by plot.py at 2018-01-30 15:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 86.274 ms

Loss rate: 1.14%

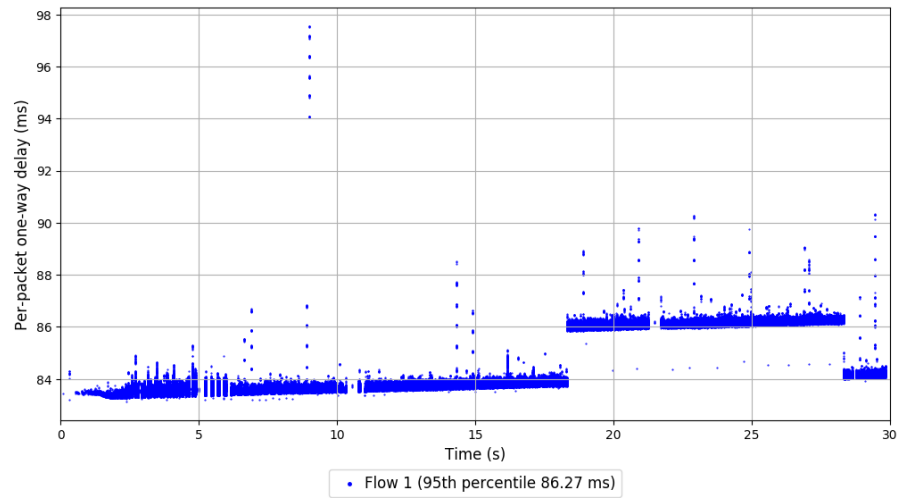
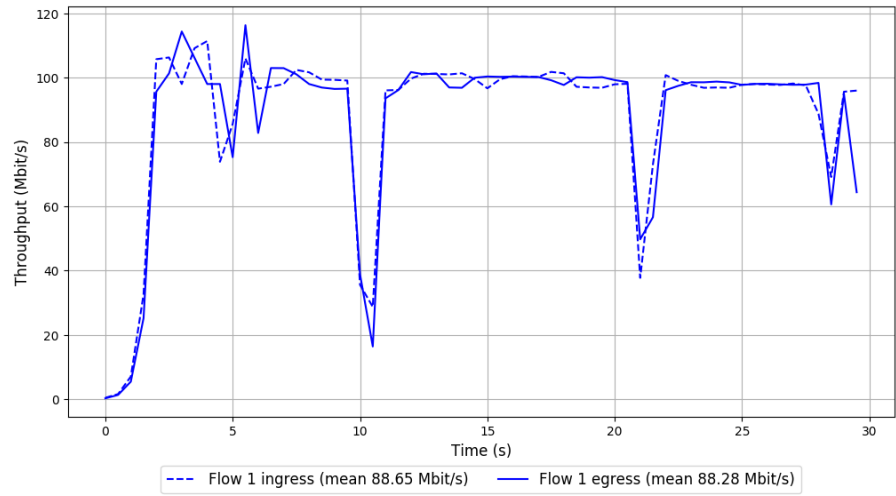
-- Flow 1:

Average throughput: 88.28 Mbit/s

95th percentile per-packet one-way delay: 86.274 ms

Loss rate: 1.14%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-30 11:43:20

End at: 2018-01-30 11:43:50

Below is generated by plot.py at 2018-01-30 15:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.07 Mbit/s

95th percentile per-packet one-way delay: 80.096 ms

Loss rate: 1.22%

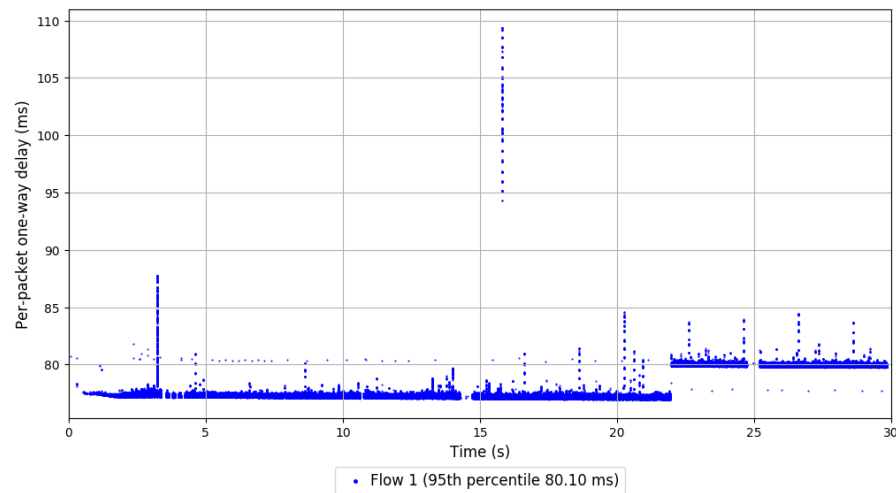
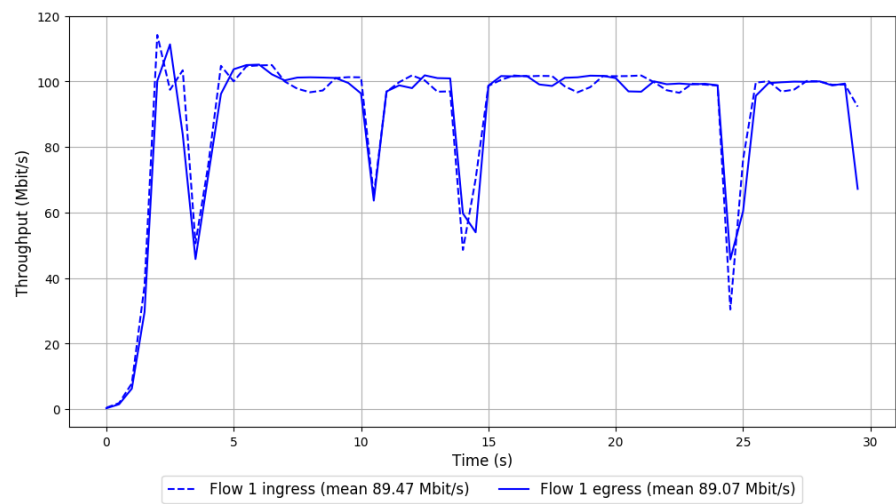
-- Flow 1:

Average throughput: 89.07 Mbit/s

95th percentile per-packet one-way delay: 80.096 ms

Loss rate: 1.22%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-30 11:57:56

End at: 2018-01-30 11:58:26

Below is generated by plot.py at 2018-01-30 15:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 66.424 ms

Loss rate: 1.50%

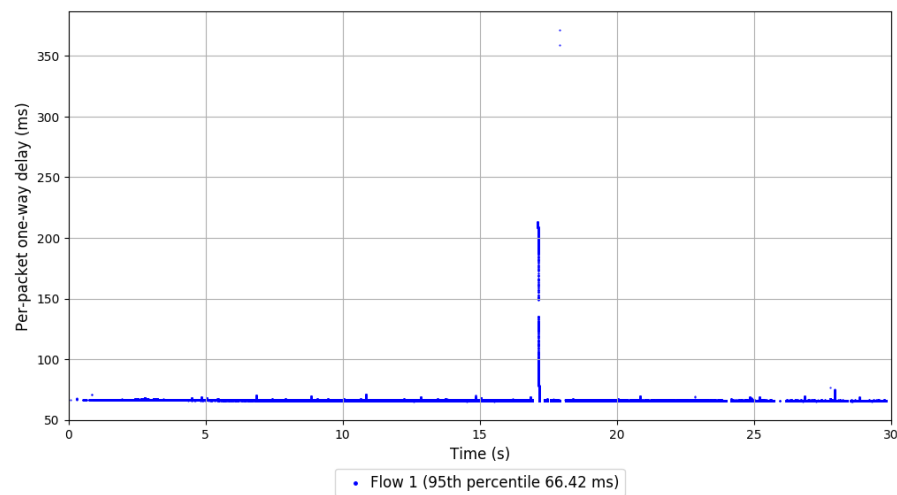
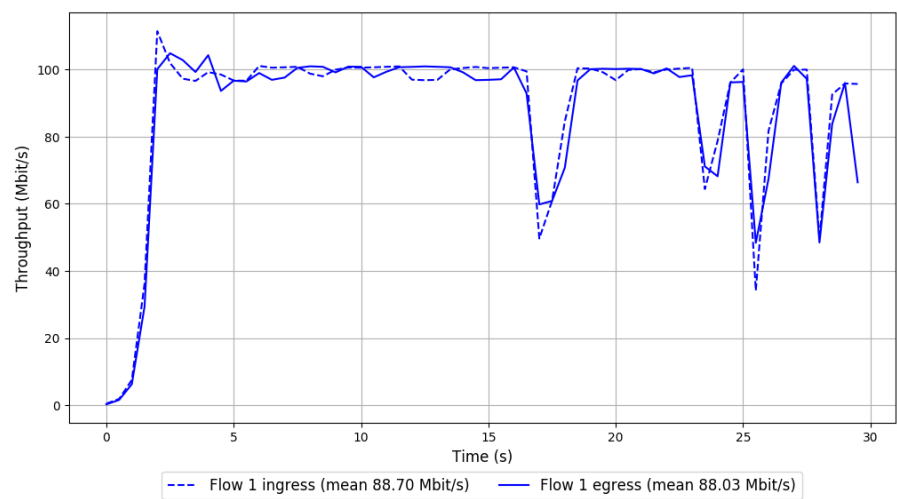
-- Flow 1:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 66.424 ms

Loss rate: 1.50%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-30 12:12:56

End at: 2018-01-30 12:13:26

Below is generated by plot.py at 2018-01-30 15:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.02 Mbit/s

95th percentile per-packet one-way delay: 75.415 ms

Loss rate: 1.65%

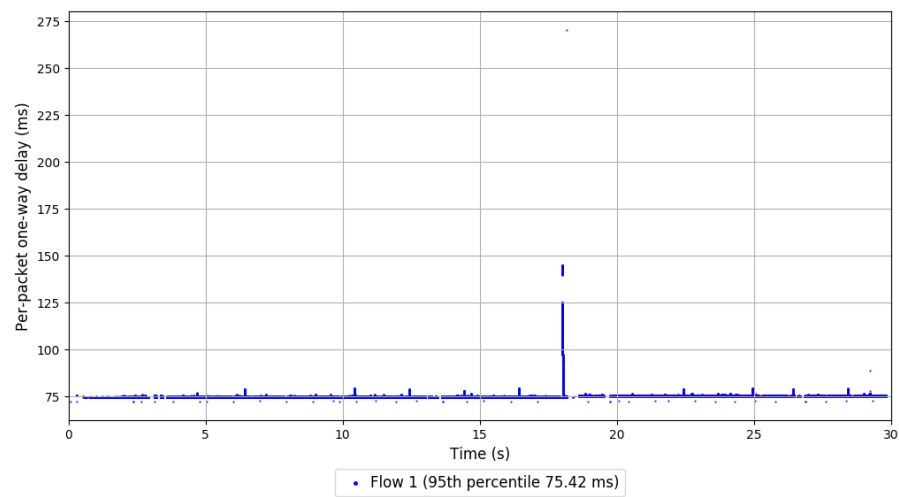
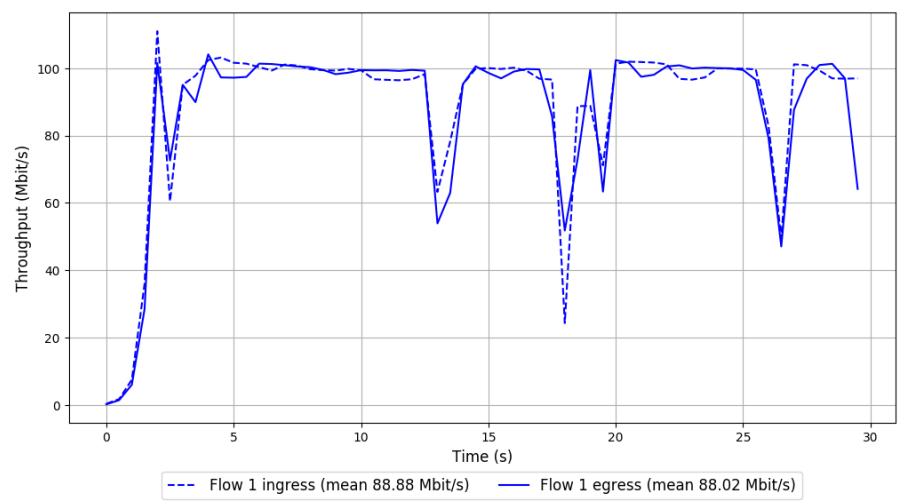
-- Flow 1:

Average throughput: 88.02 Mbit/s

95th percentile per-packet one-way delay: 75.415 ms

Loss rate: 1.65%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-30 12:27:53

End at: 2018-01-30 12:28:23

Below is generated by plot.py at 2018-01-30 15:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.87 Mbit/s

95th percentile per-packet one-way delay: 71.103 ms

Loss rate: 1.15%

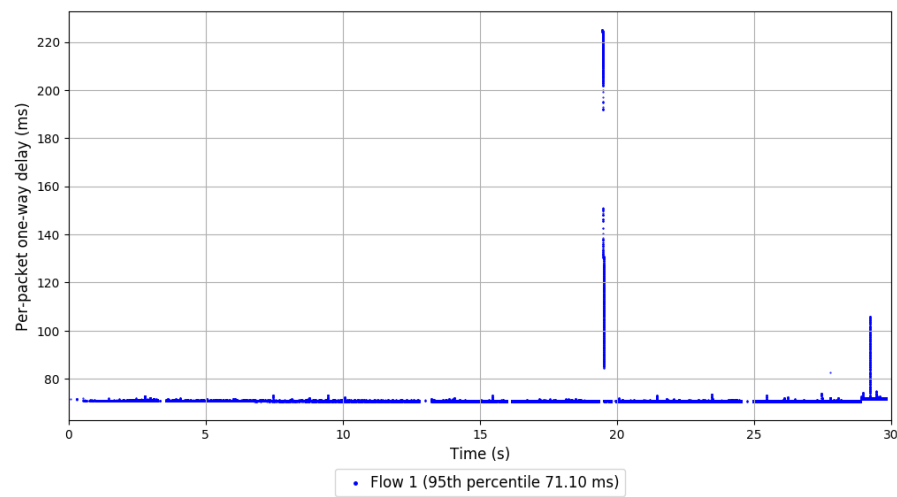
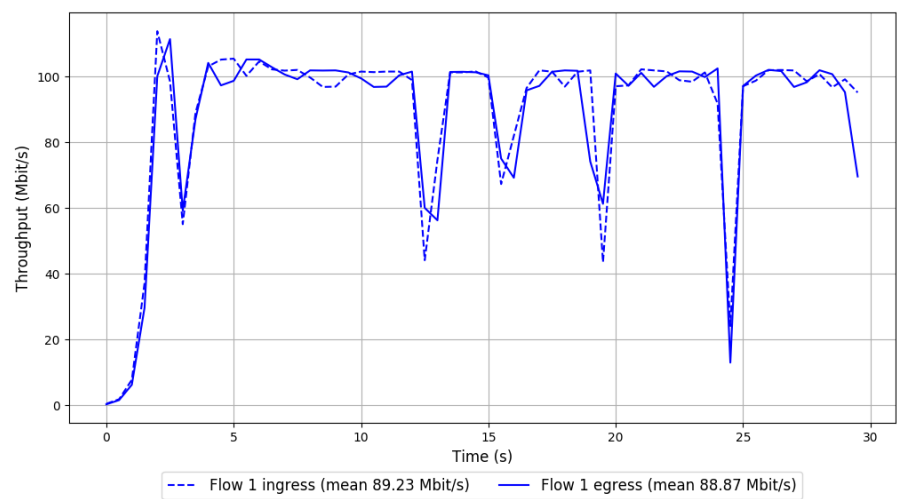
-- Flow 1:

Average throughput: 88.87 Mbit/s

95th percentile per-packet one-way delay: 71.103 ms

Loss rate: 1.15%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-30 12:42:35

End at: 2018-01-30 12:43:05

Below is generated by plot.py at 2018-01-30 15:59:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 78.322 ms

Loss rate: 1.37%

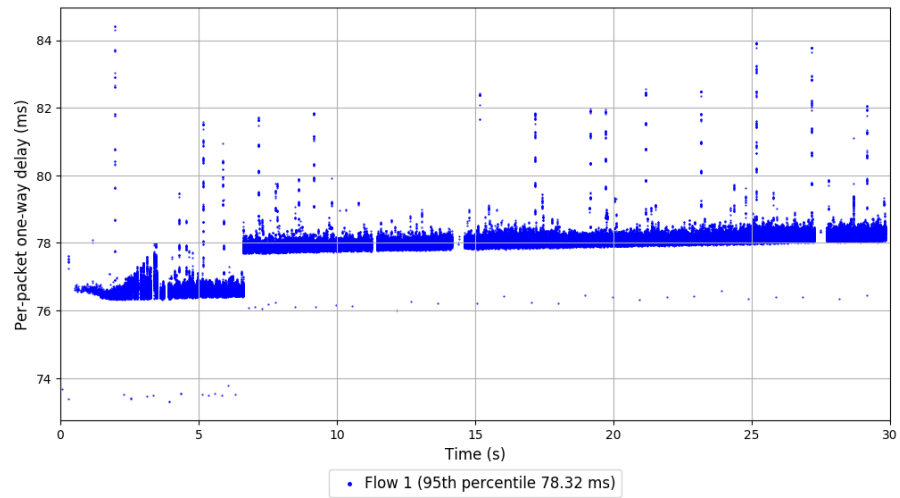
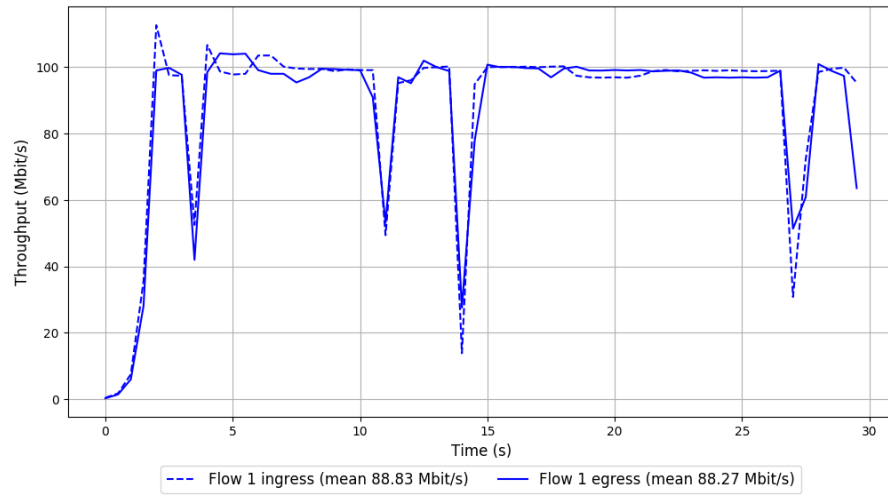
-- Flow 1:

Average throughput: 88.27 Mbit/s

95th percentile per-packet one-way delay: 78.322 ms

Loss rate: 1.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-30 12:57:08

End at: 2018-01-30 12:57:38

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 96.144 ms

Loss rate: 0.78%

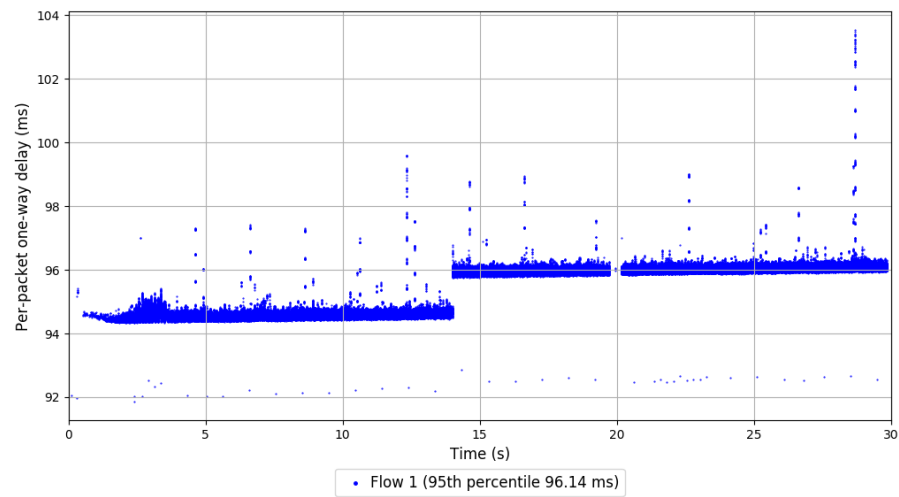
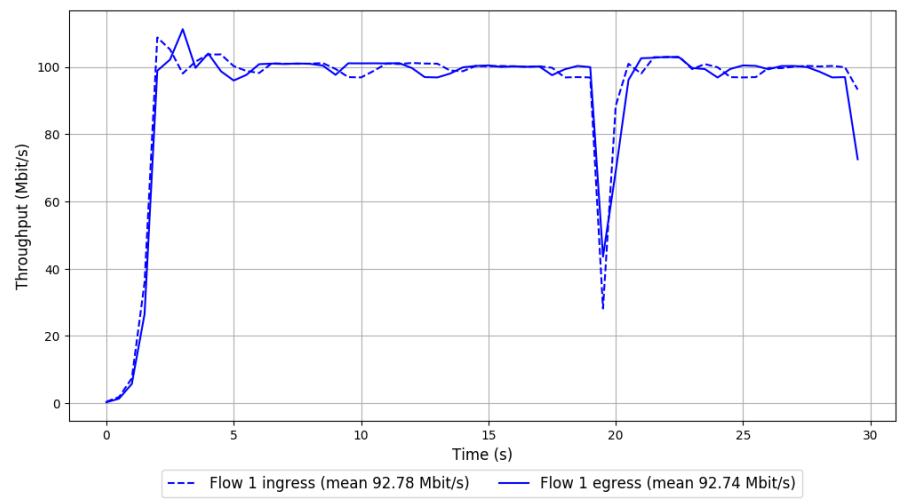
-- Flow 1:

Average throughput: 92.74 Mbit/s

95th percentile per-packet one-way delay: 96.144 ms

Loss rate: 0.78%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-30 13:11:48

End at: 2018-01-30 13:12:18

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.52 Mbit/s

95th percentile per-packet one-way delay: 101.527 ms

Loss rate: 0.86%

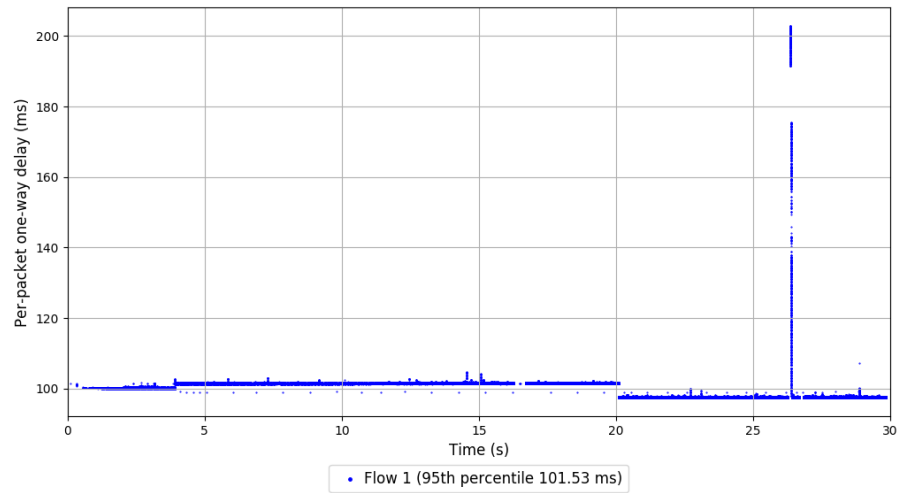
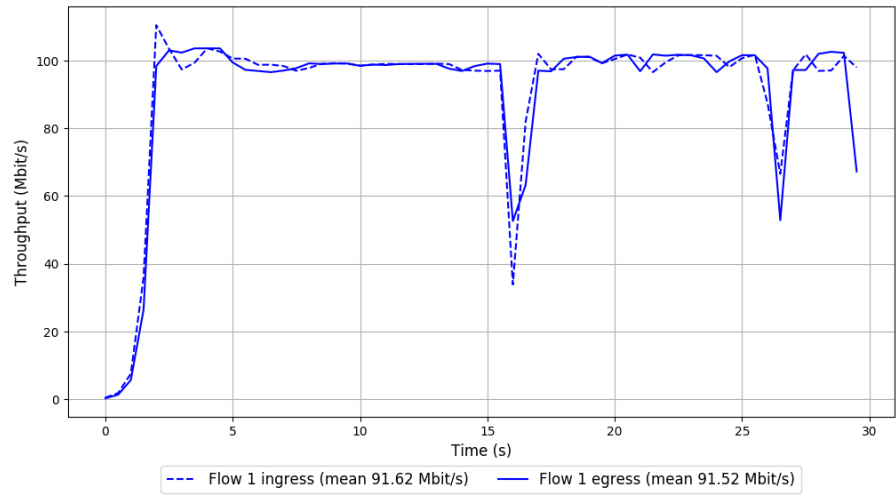
-- Flow 1:

Average throughput: 91.52 Mbit/s

95th percentile per-packet one-way delay: 101.527 ms

Loss rate: 0.86%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-30 10:58:44

End at: 2018-01-30 10:59:14

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 84.506 ms

Loss rate: 2.62%

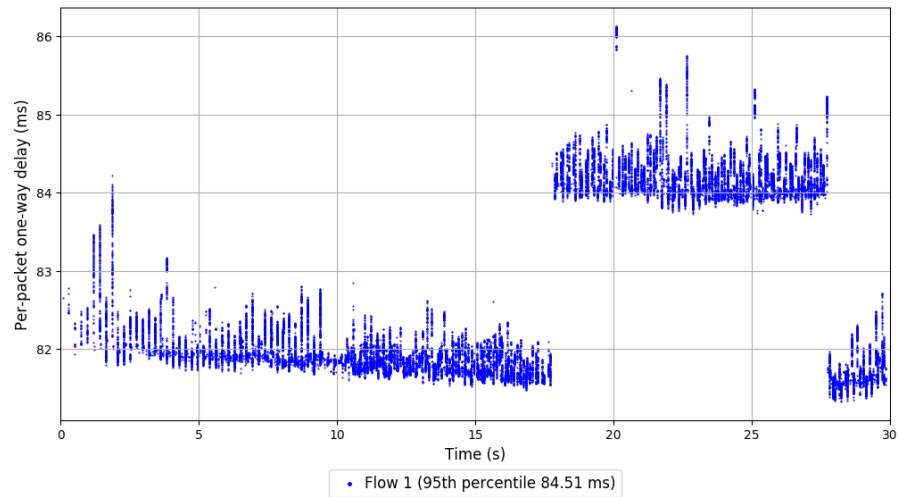
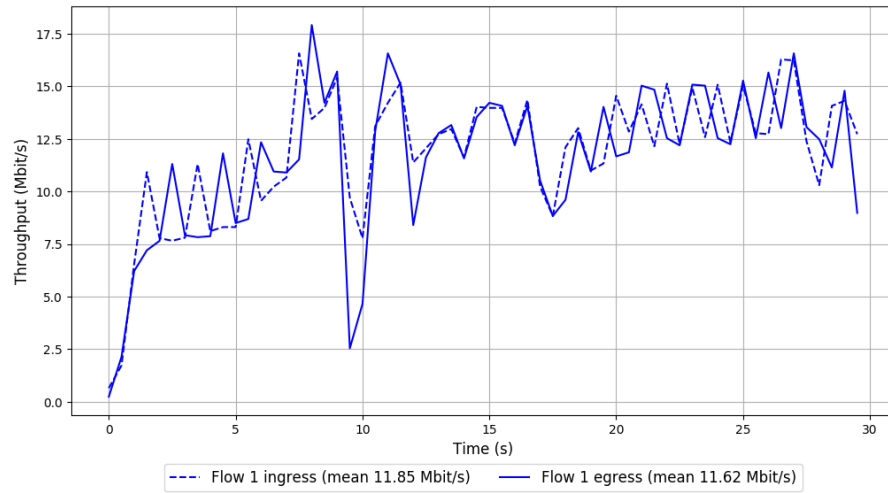
-- Flow 1:

Average throughput: 11.62 Mbit/s

95th percentile per-packet one-way delay: 84.506 ms

Loss rate: 2.62%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-30 11:13:22

End at: 2018-01-30 11:13:52

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 96.244 ms

Loss rate: 0.90%

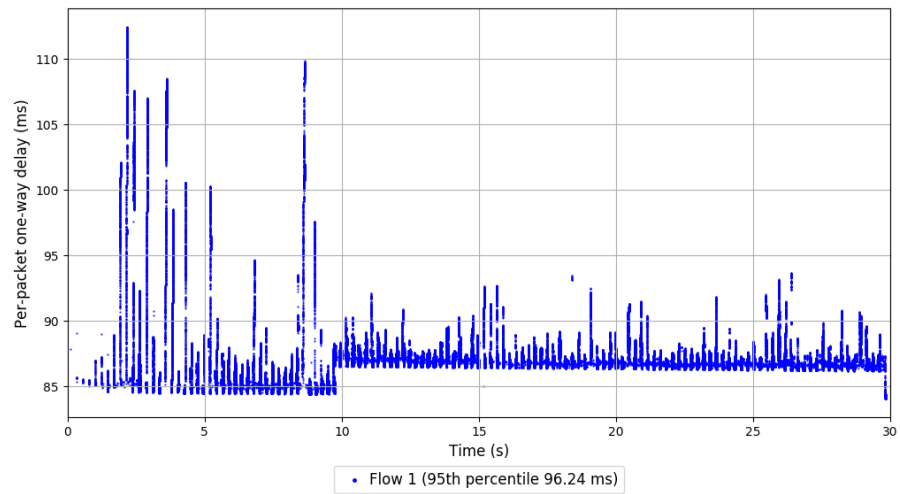
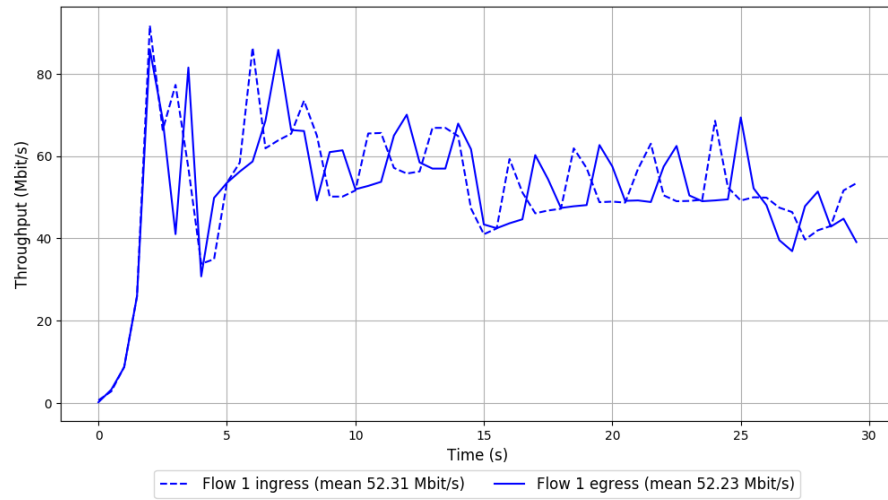
-- Flow 1:

Average throughput: 52.23 Mbit/s

95th percentile per-packet one-way delay: 96.244 ms

Loss rate: 0.90%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-30 11:28:01

End at: 2018-01-30 11:28:31

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.39 Mbit/s

95th percentile per-packet one-way delay: 86.663 ms

Loss rate: 4.12%

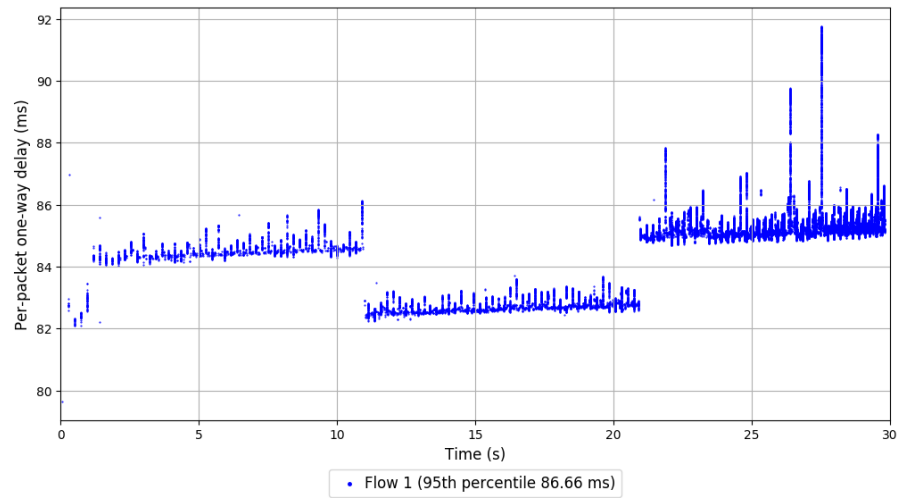
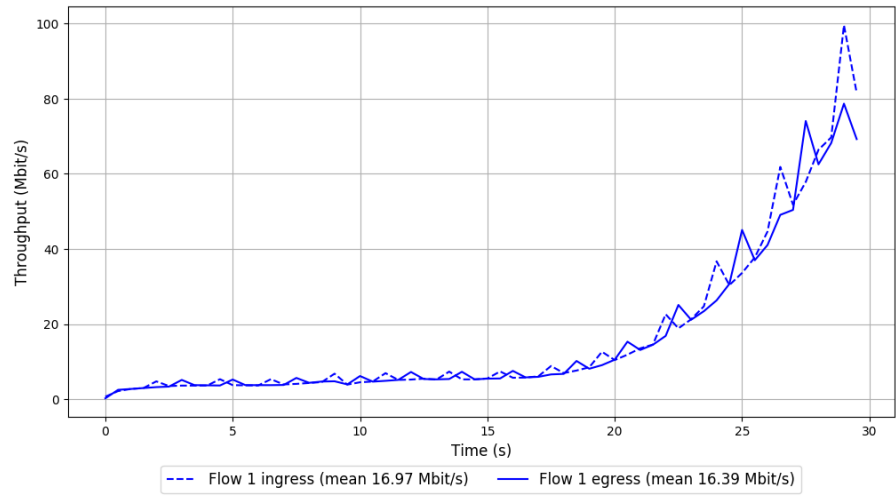
-- Flow 1:

Average throughput: 16.39 Mbit/s

95th percentile per-packet one-way delay: 86.663 ms

Loss rate: 4.12%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-30 11:42:35

End at: 2018-01-30 11:43:05

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.58 Mbit/s

95th percentile per-packet one-way delay: 85.273 ms

Loss rate: 1.69%

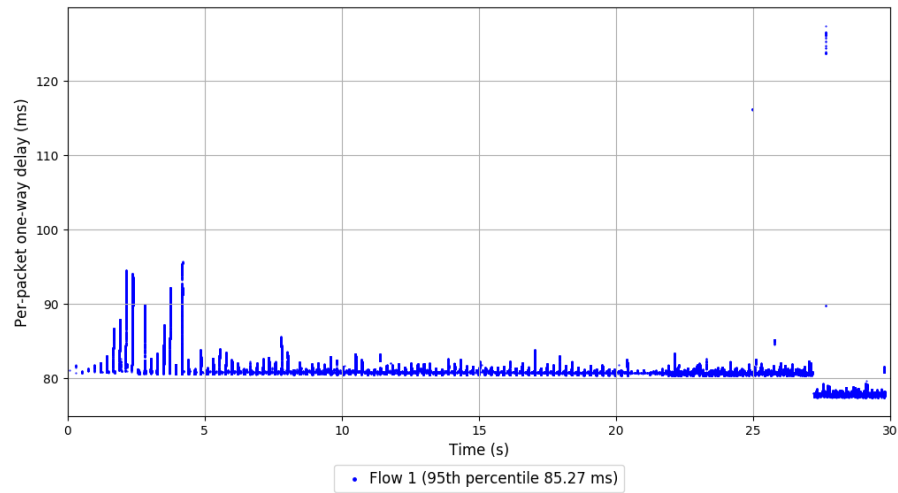
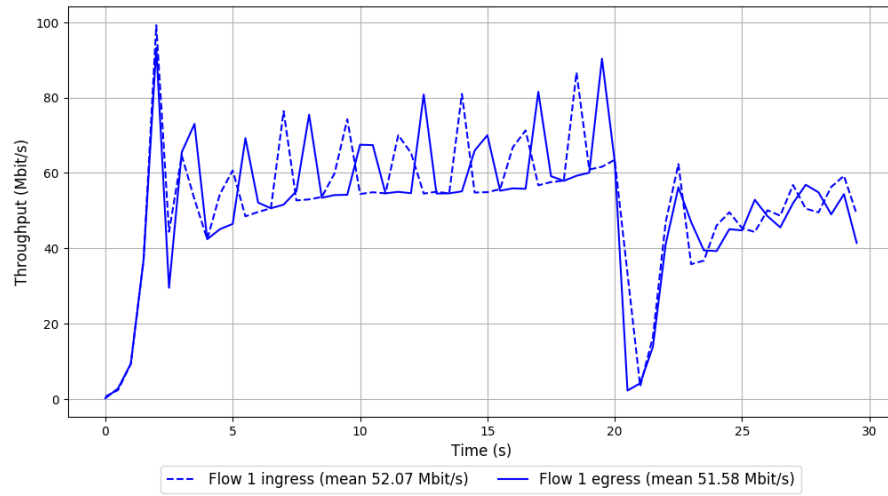
-- Flow 1:

Average throughput: 51.58 Mbit/s

95th percentile per-packet one-way delay: 85.273 ms

Loss rate: 1.69%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-30 11:57:12

End at: 2018-01-30 11:57:43

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 68.415 ms

Loss rate: 0.94%

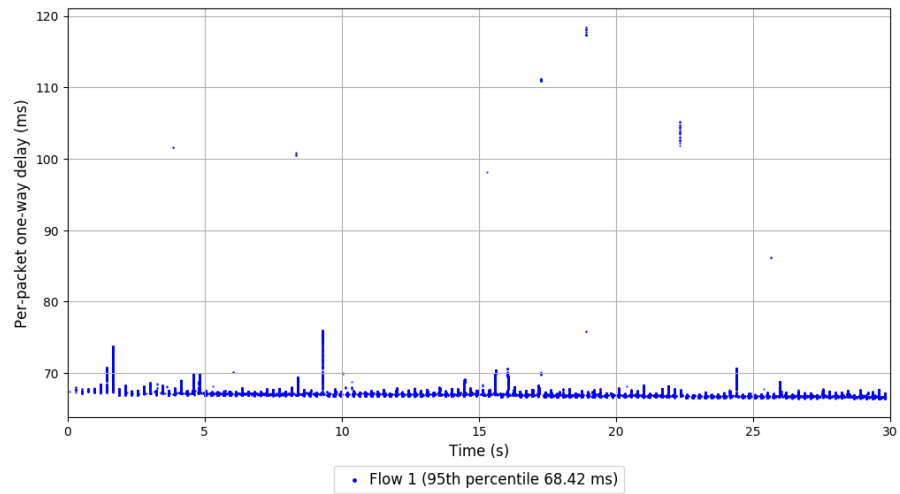
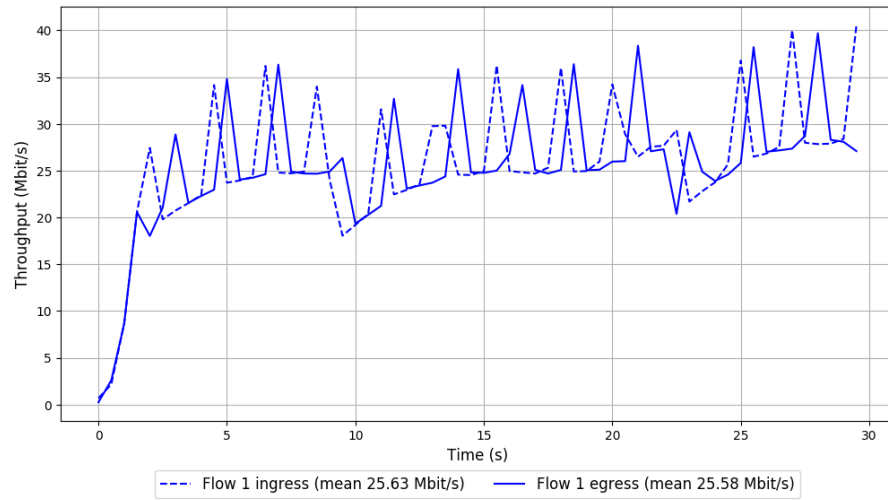
-- Flow 1:

Average throughput: 25.58 Mbit/s

95th percentile per-packet one-way delay: 68.415 ms

Loss rate: 0.94%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-30 12:12:14

End at: 2018-01-30 12:12:44

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.28 Mbit/s

95th percentile per-packet one-way delay: 75.966 ms

Loss rate: 1.00%

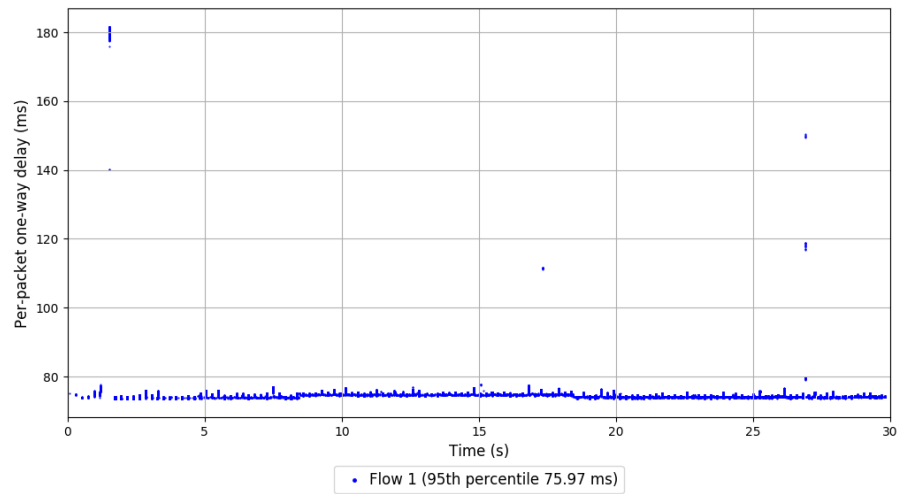
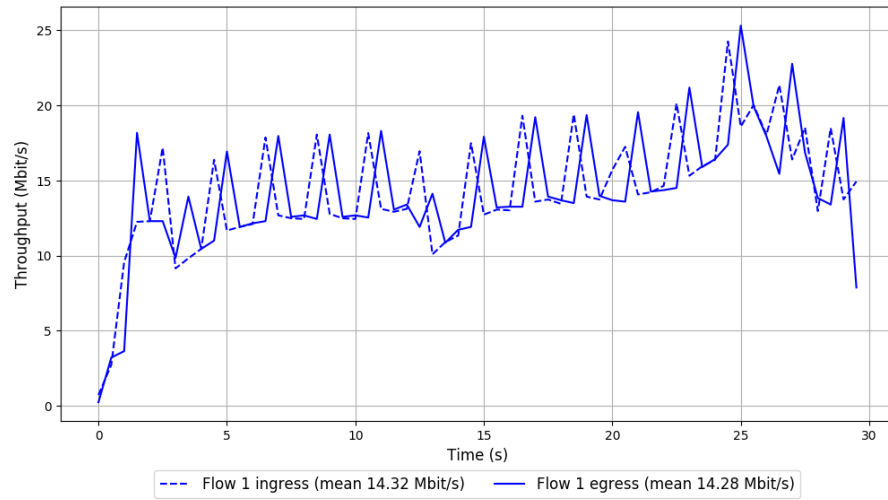
-- Flow 1:

Average throughput: 14.28 Mbit/s

95th percentile per-packet one-way delay: 75.966 ms

Loss rate: 1.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-30 12:27:09

End at: 2018-01-30 12:27:39

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 74.120 ms

Loss rate: 1.11%

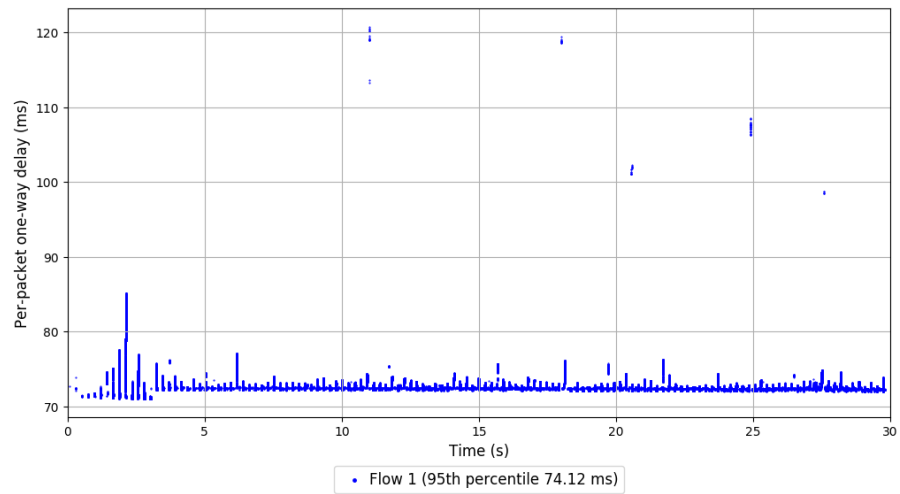
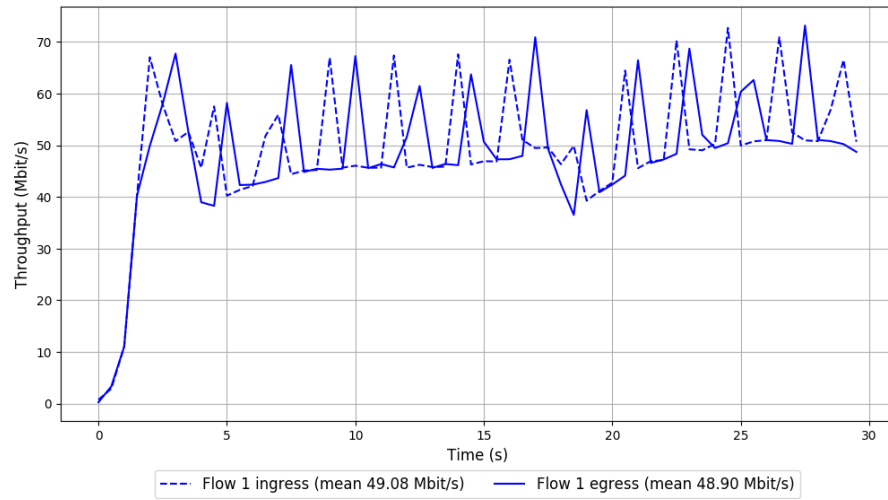
-- Flow 1:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 74.120 ms

Loss rate: 1.11%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-30 12:41:51

End at: 2018-01-30 12:42:21

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 79.108 ms

Loss rate: 0.66%

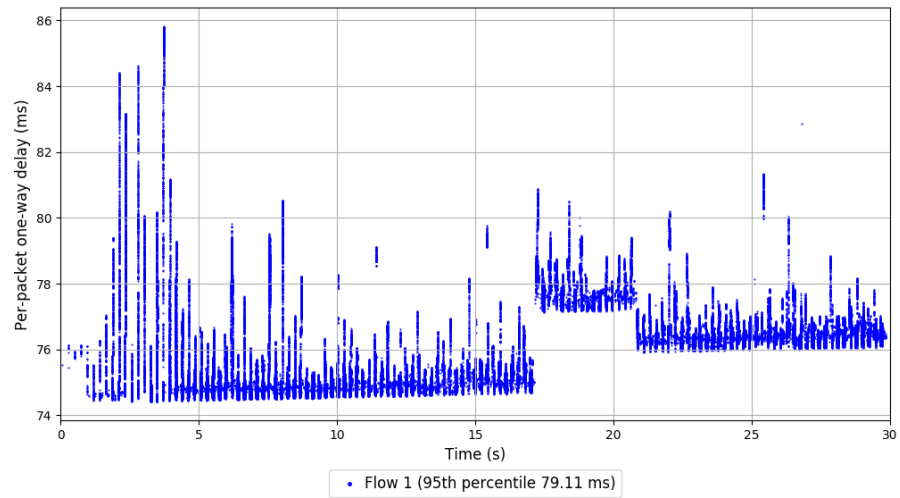
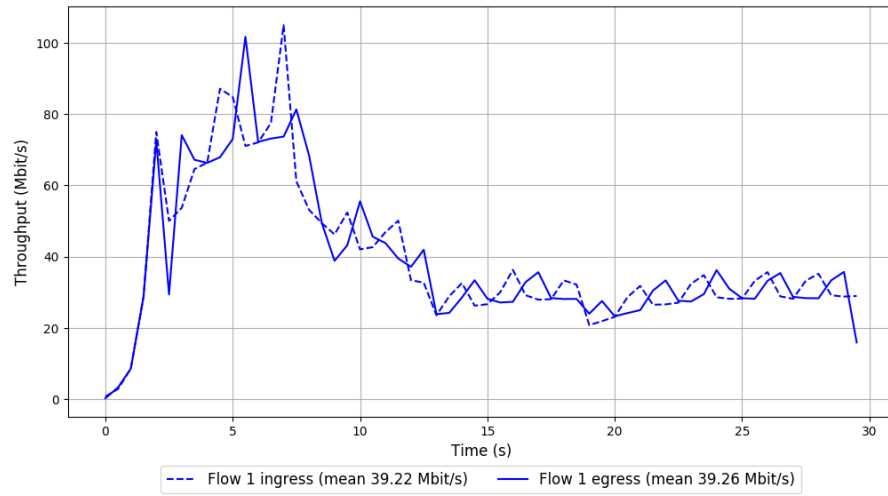
-- Flow 1:

Average throughput: 39.26 Mbit/s

95th percentile per-packet one-way delay: 79.108 ms

Loss rate: 0.66%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-30 12:56:22

End at: 2018-01-30 12:56:52

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 102.952 ms

Loss rate: 0.59%

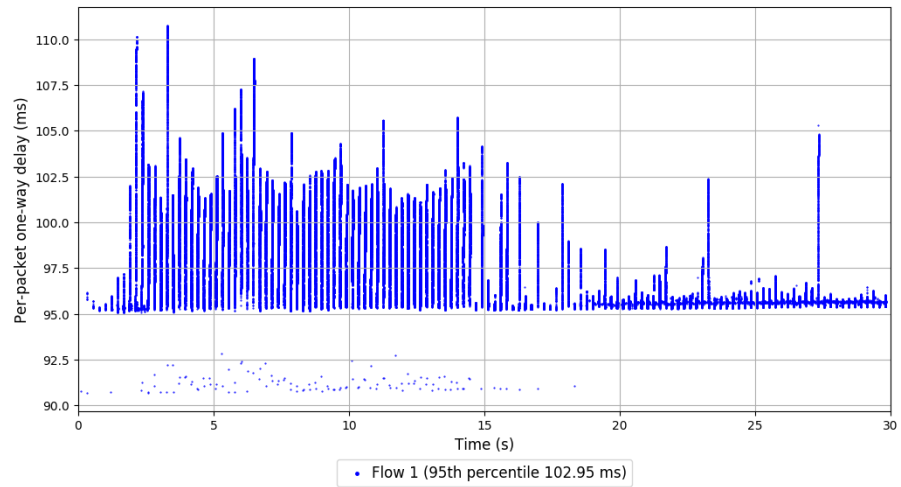
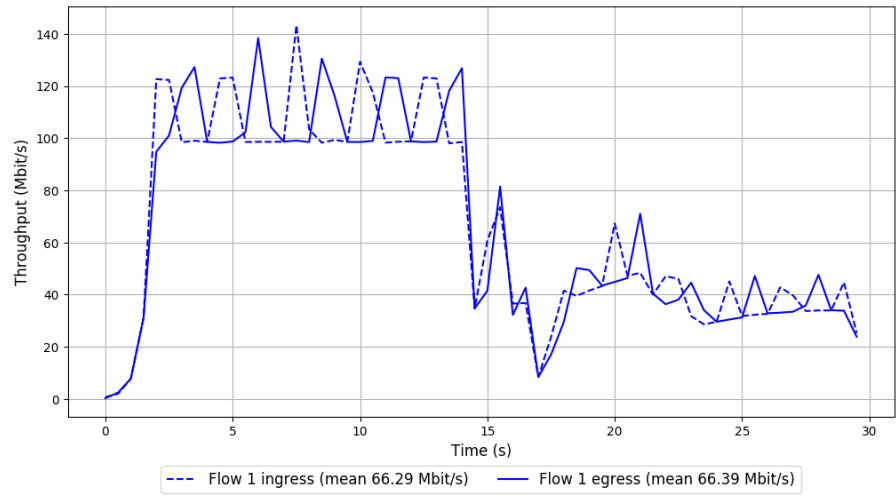
-- Flow 1:

Average throughput: 66.39 Mbit/s

95th percentile per-packet one-way delay: 102.952 ms

Loss rate: 0.59%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-30 13:11:05

End at: 2018-01-30 13:11:35

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 101.903 ms

Loss rate: 2.63%

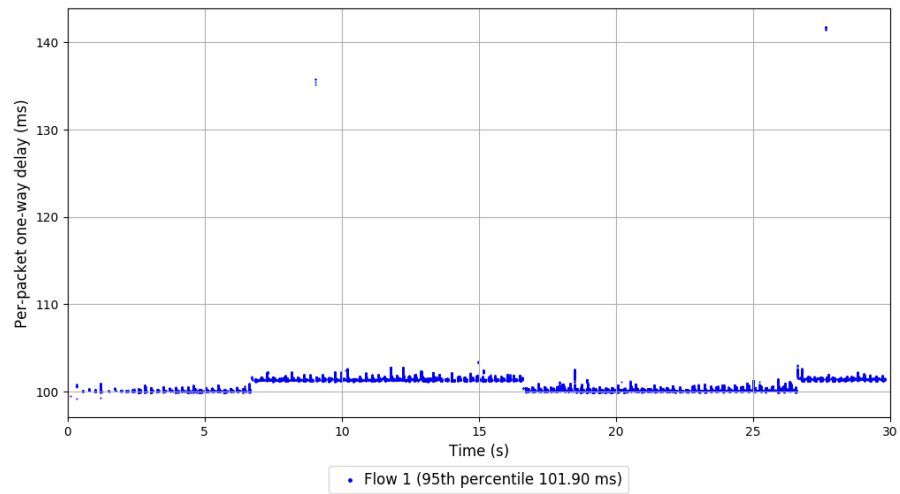
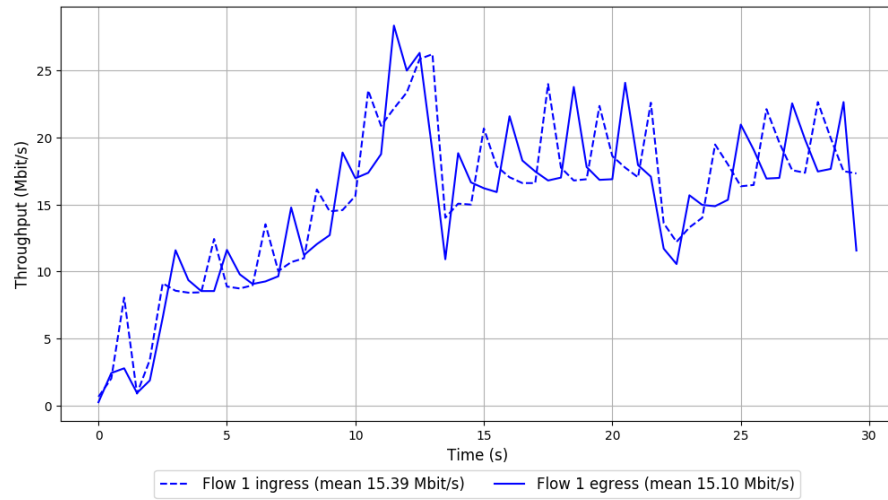
-- Flow 1:

Average throughput: 15.10 Mbit/s

95th percentile per-packet one-way delay: 101.903 ms

Loss rate: 2.63%

Run 10: Report of TCP Cubic — Data Link

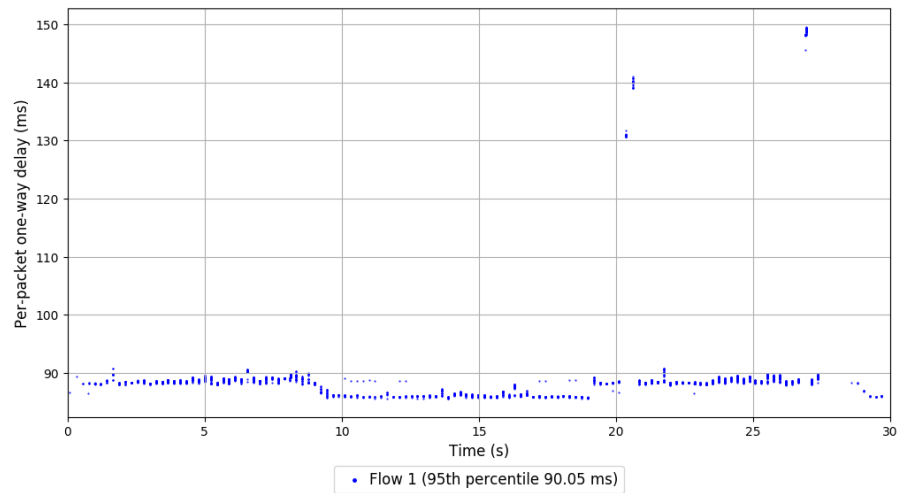
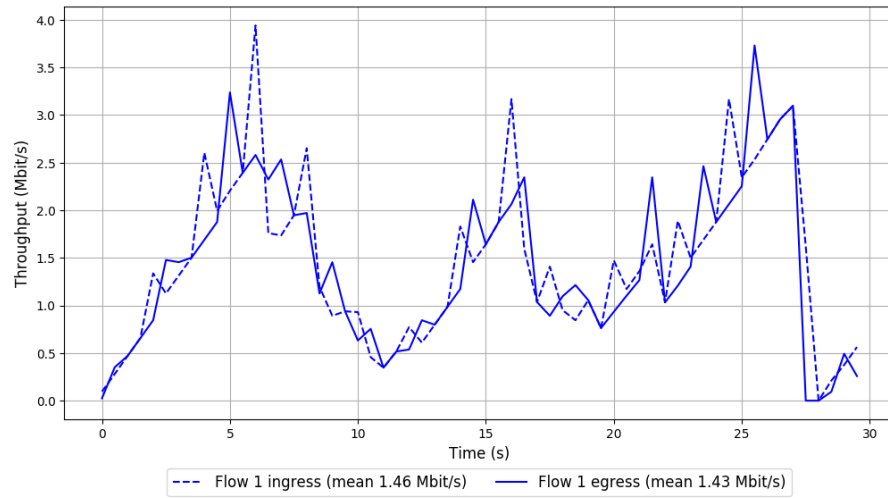


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-30 11:06:53
End at: 2018-01-30 11:07:23

# Below is generated by plot.py at 2018-01-30 16:00:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 90.047 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 90.047 ms
Loss rate: 2.82%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-01-30 11:21:22

End at: 2018-01-30 11:21:52

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 79.084 ms

Loss rate: 2.27%

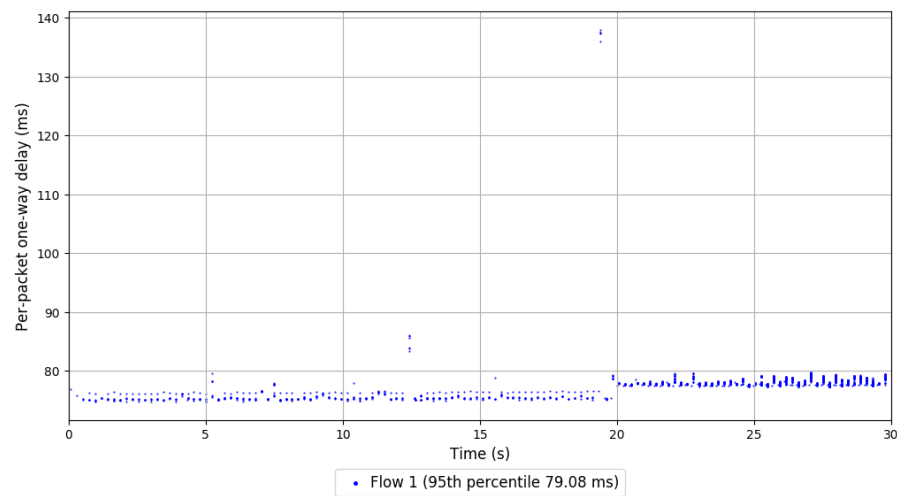
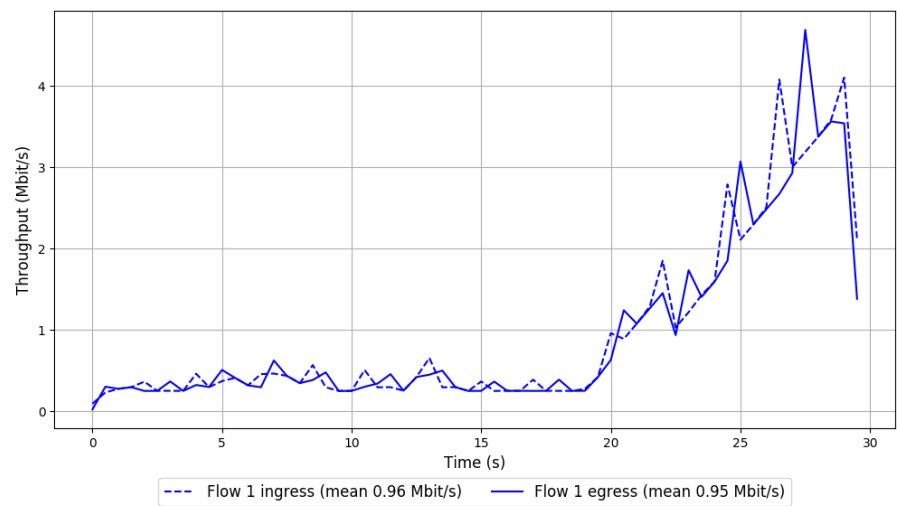
-- Flow 1:

Average throughput: 0.95 Mbit/s

95th percentile per-packet one-way delay: 79.084 ms

Loss rate: 2.27%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-30 11:35:54

End at: 2018-01-30 11:36:24

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 107.821 ms

Loss rate: 2.48%

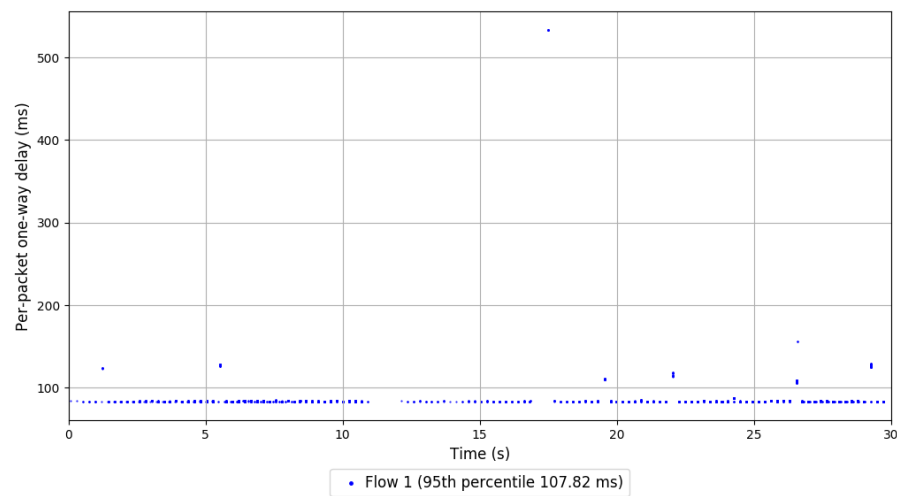
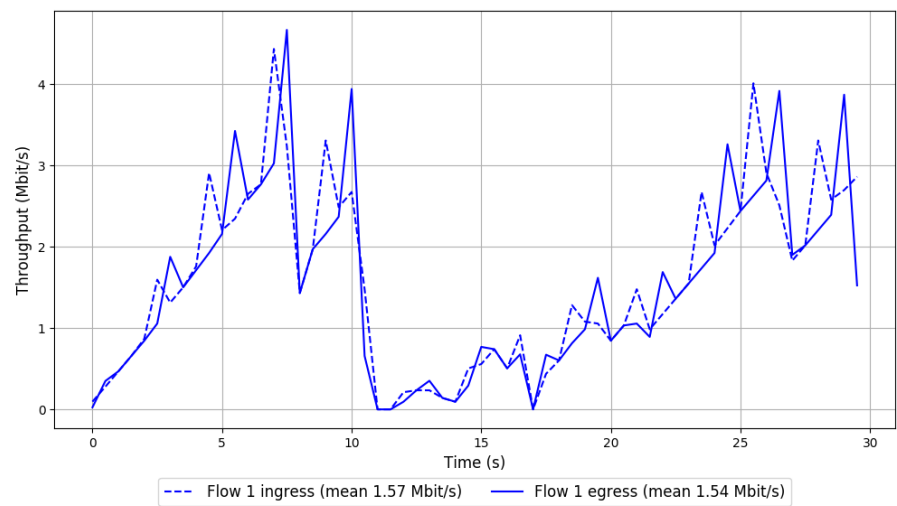
-- Flow 1:

Average throughput: 1.54 Mbit/s

95th percentile per-packet one-way delay: 107.821 ms

Loss rate: 2.48%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-30 11:50:32

End at: 2018-01-30 11:51:02

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 75.997 ms

Loss rate: 1.72%

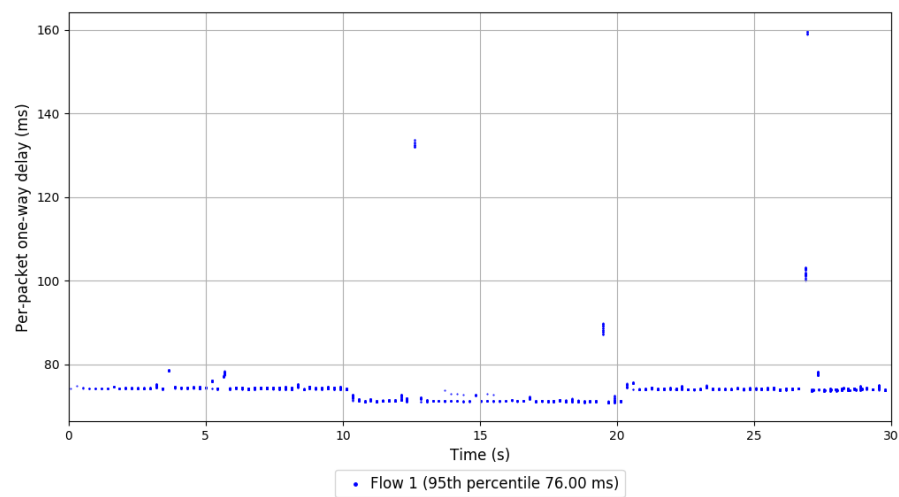
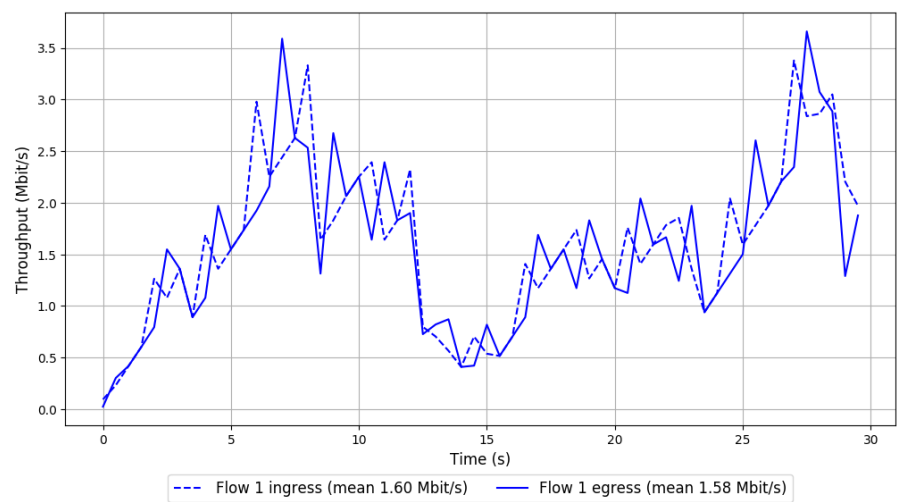
-- Flow 1:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 75.997 ms

Loss rate: 1.72%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-30 12:05:27

End at: 2018-01-30 12:05:58

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 71.699 ms

Loss rate: 1.04%

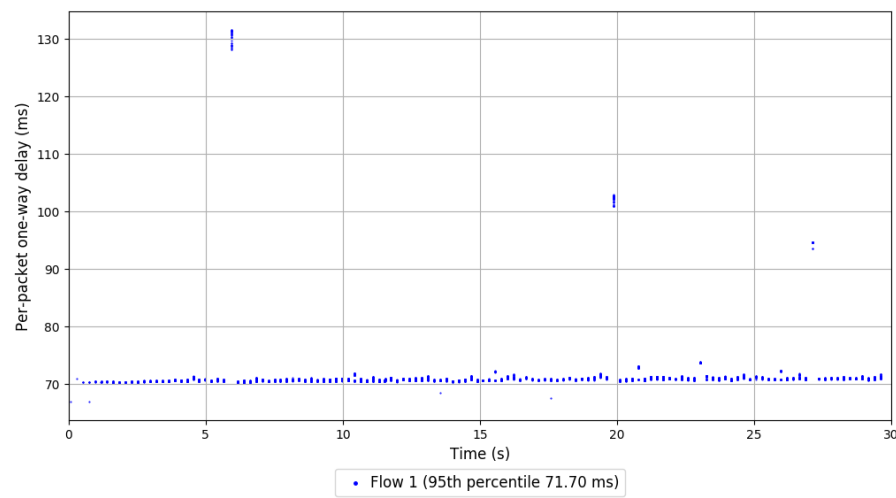
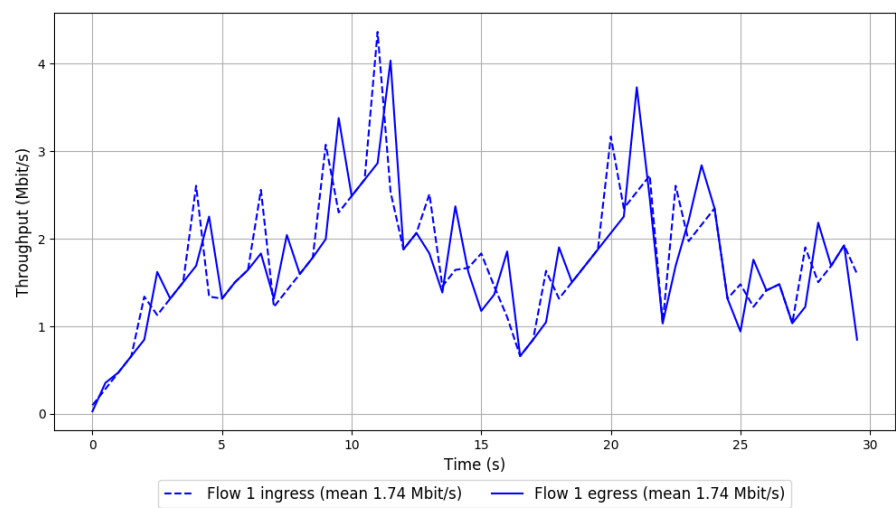
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 71.699 ms

Loss rate: 1.04%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-30 12:20:36

End at: 2018-01-30 12:21:06

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 75.655 ms

Loss rate: 1.24%

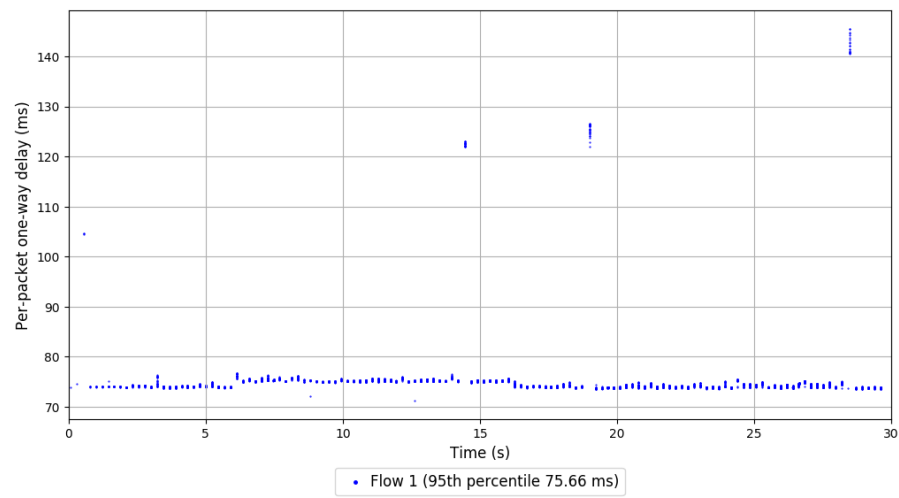
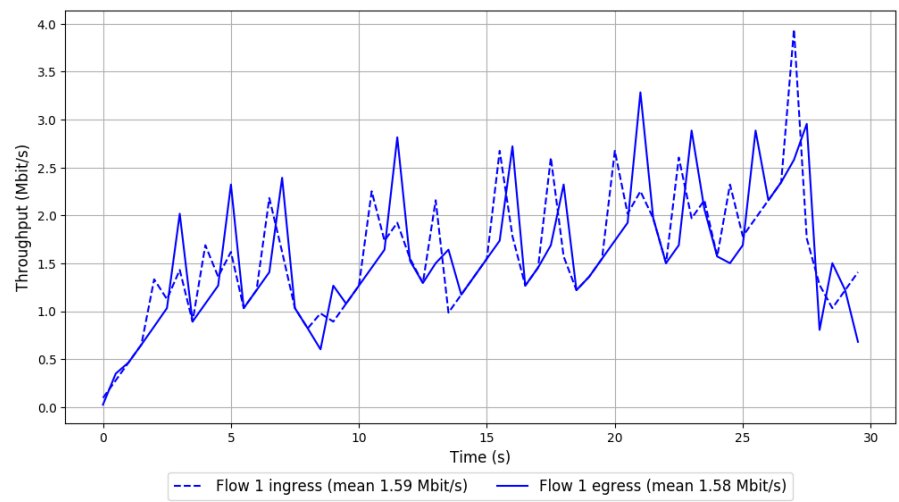
-- Flow 1:

Average throughput: 1.58 Mbit/s

95th percentile per-packet one-way delay: 75.655 ms

Loss rate: 1.24%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-30 12:35:12

End at: 2018-01-30 12:35:42

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 76.031 ms

Loss rate: 0.77%

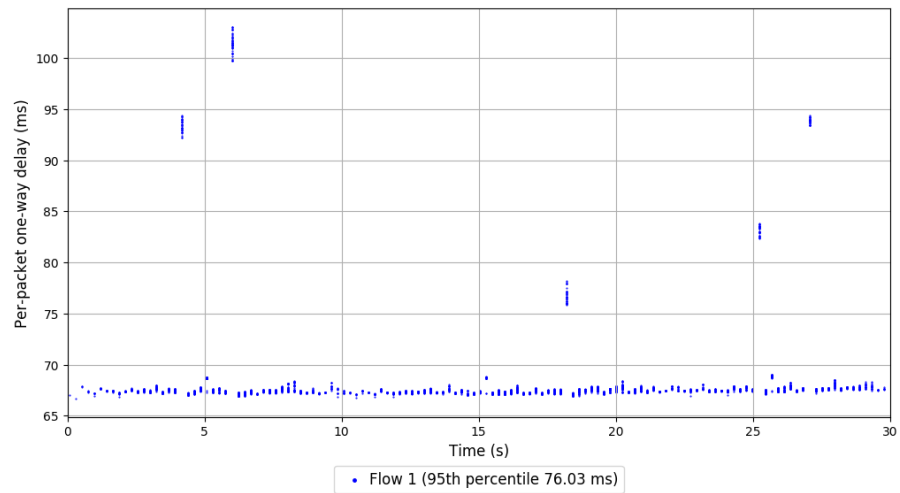
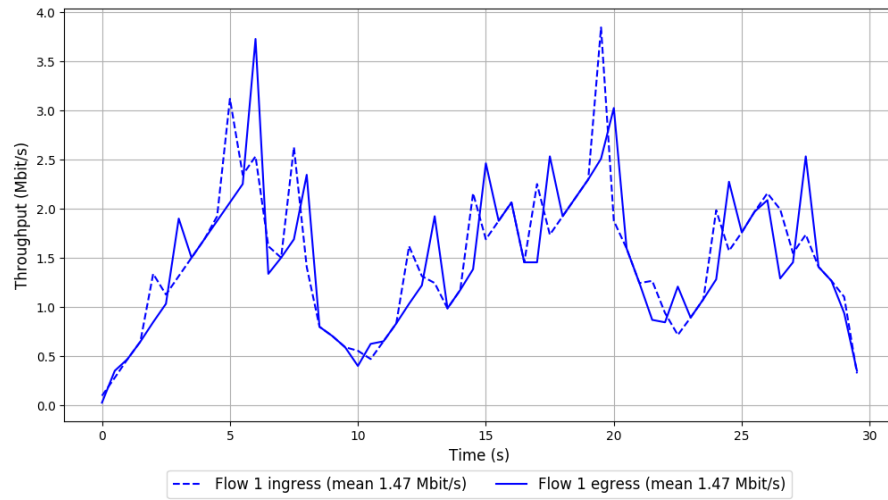
-- Flow 1:

Average throughput: 1.47 Mbit/s

95th percentile per-packet one-way delay: 76.031 ms

Loss rate: 0.77%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-30 12:49:50

End at: 2018-01-30 12:50:20

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 89.702 ms

Loss rate: 1.83%

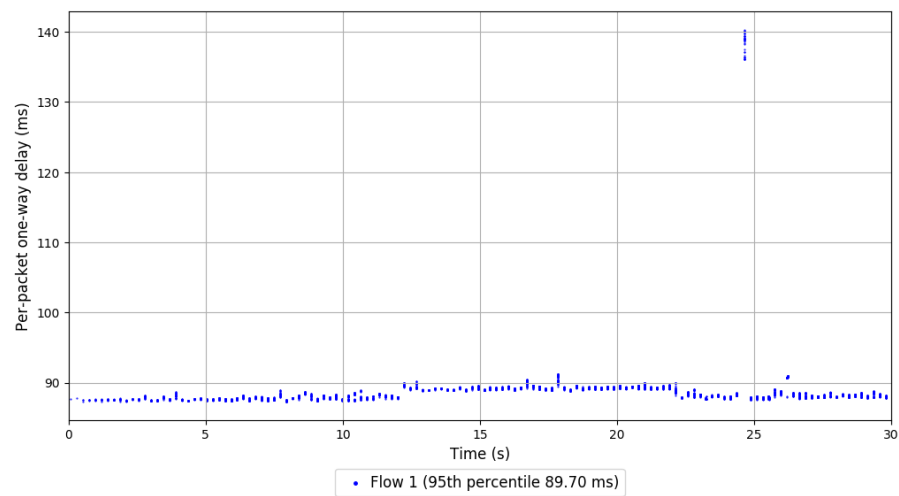
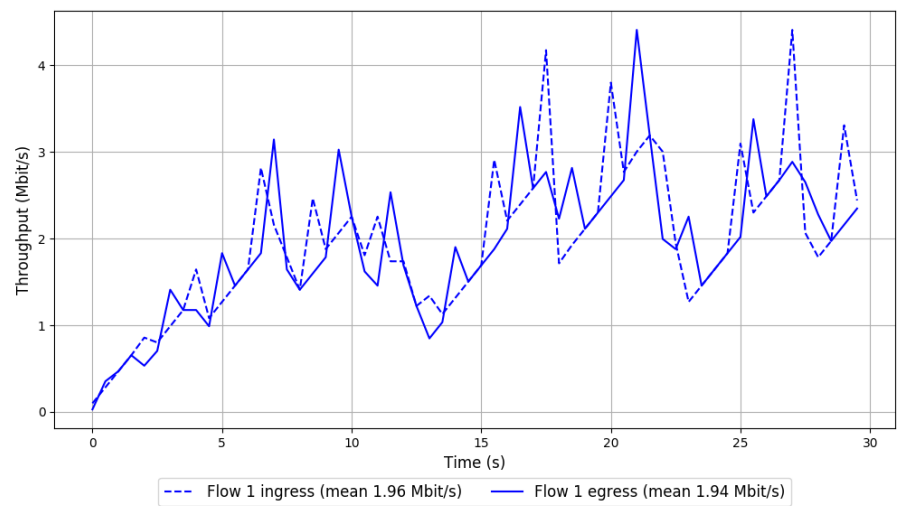
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 89.702 ms

Loss rate: 1.83%

Run 8: Report of LEDBAT — Data Link

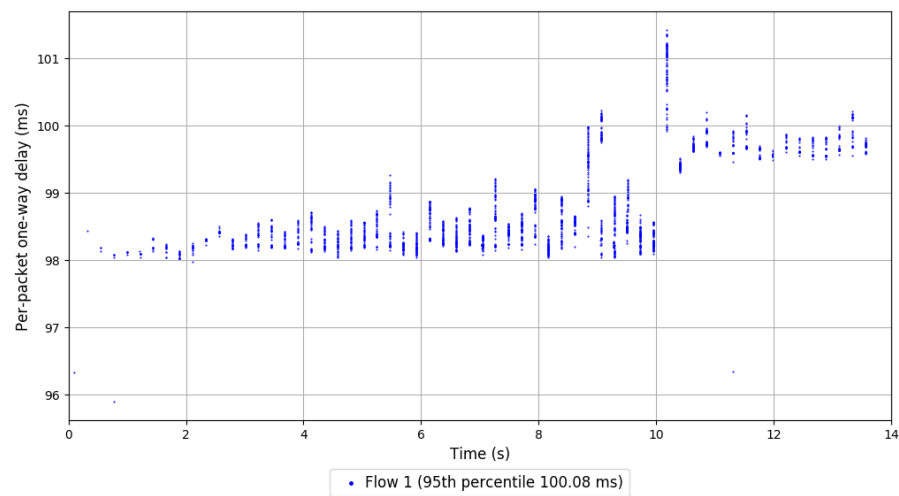
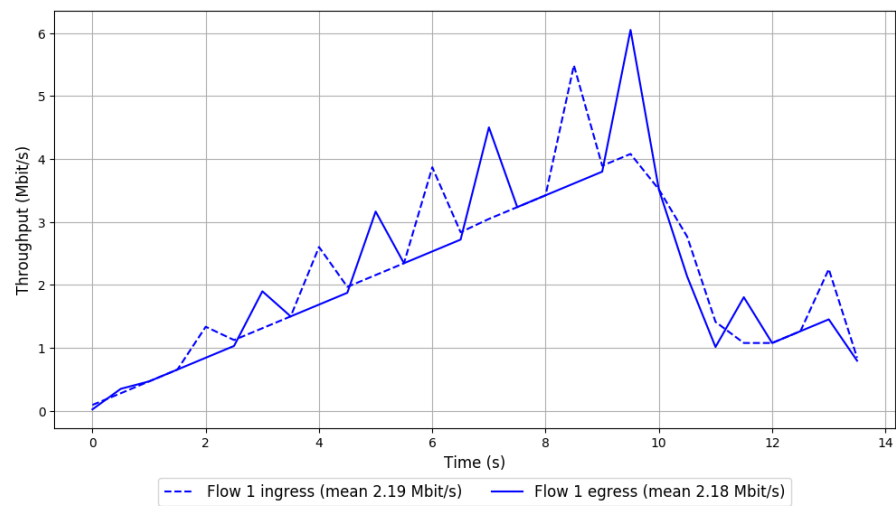


Run 9: Statistics of LEDBAT

Start at: 2018-01-30 13:04:36

End at: 2018-01-30 13:05:06

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-30 13:19:03

End at: 2018-01-30 13:19:33

Below is generated by plot.py at 2018-01-30 16:00:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 99.480 ms

Loss rate: 1.36%

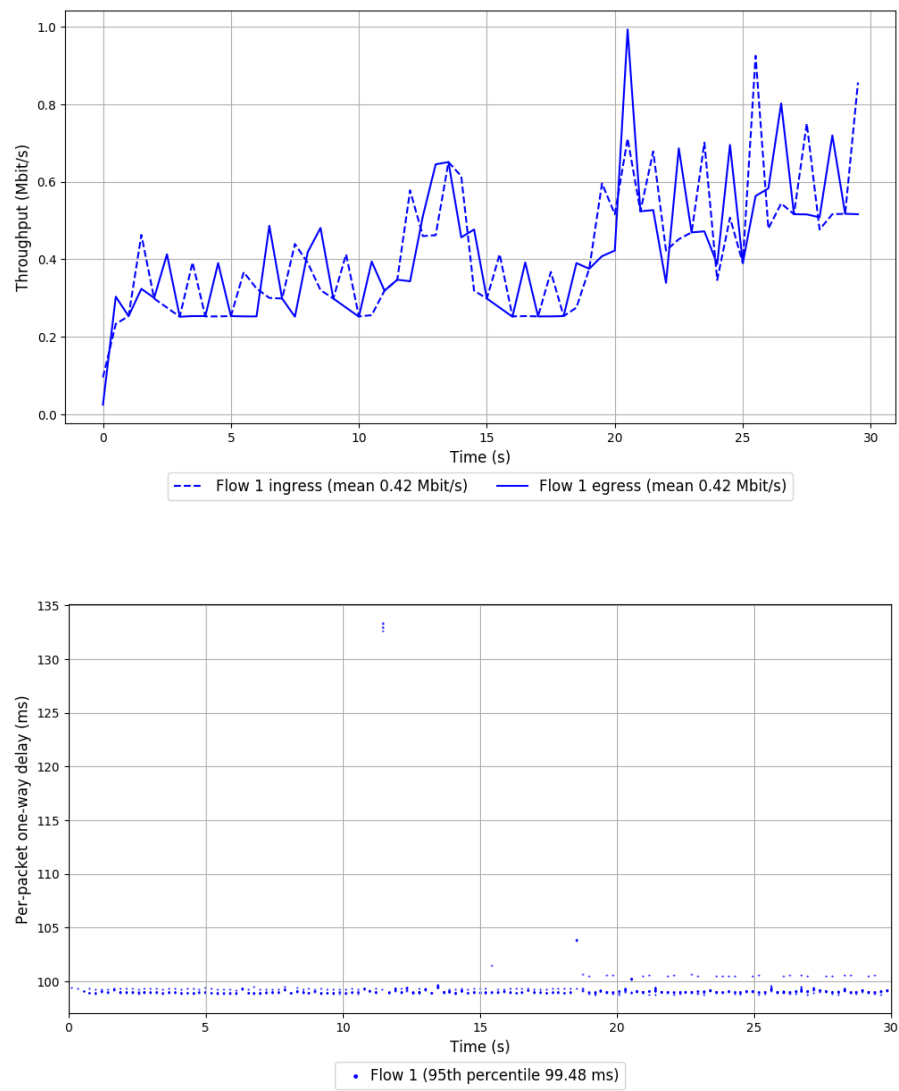
-- Flow 1:

Average throughput: 0.42 Mbit/s

95th percentile per-packet one-way delay: 99.480 ms

Loss rate: 1.36%

Run 10: Report of LEDBAT — Data Link

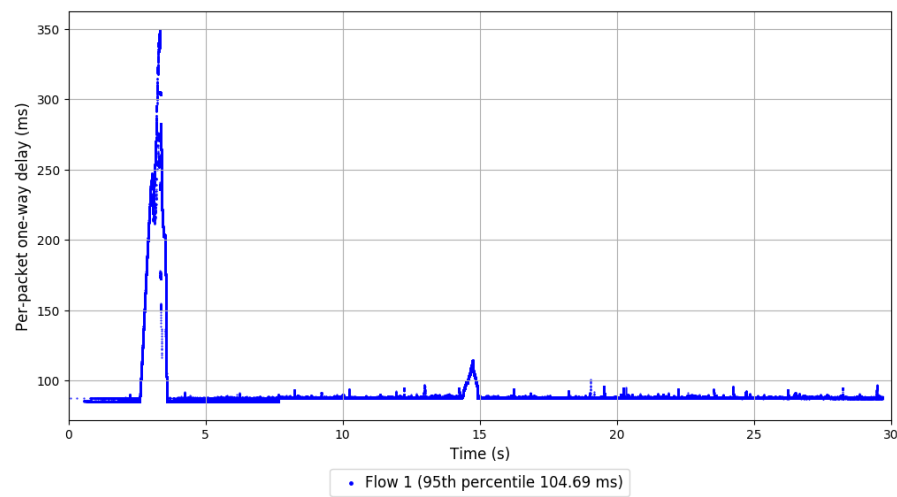
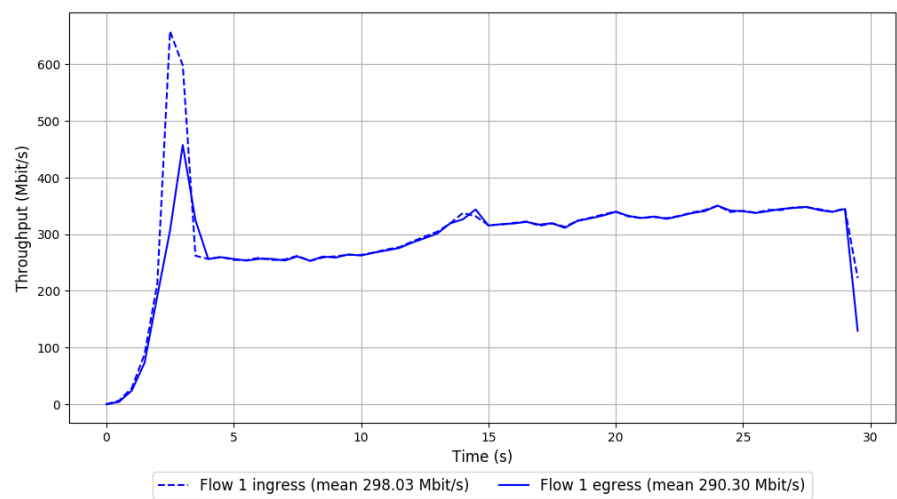


```
Run 1: Statistics of PCC

Start at: 2018-01-30 11:09:24
End at: 2018-01-30 11:09:54

# Below is generated by plot.py at 2018-01-30 16:04:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.30 Mbit/s
95th percentile per-packet one-way delay: 104.688 ms
Loss rate: 3.32%
-- Flow 1:
Average throughput: 290.30 Mbit/s
95th percentile per-packet one-way delay: 104.688 ms
Loss rate: 3.32%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-30 11:23:54

End at: 2018-01-30 11:24:24

Below is generated by plot.py at 2018-01-30 16:07:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.00 Mbit/s

95th percentile per-packet one-way delay: 204.328 ms

Loss rate: 3.39%

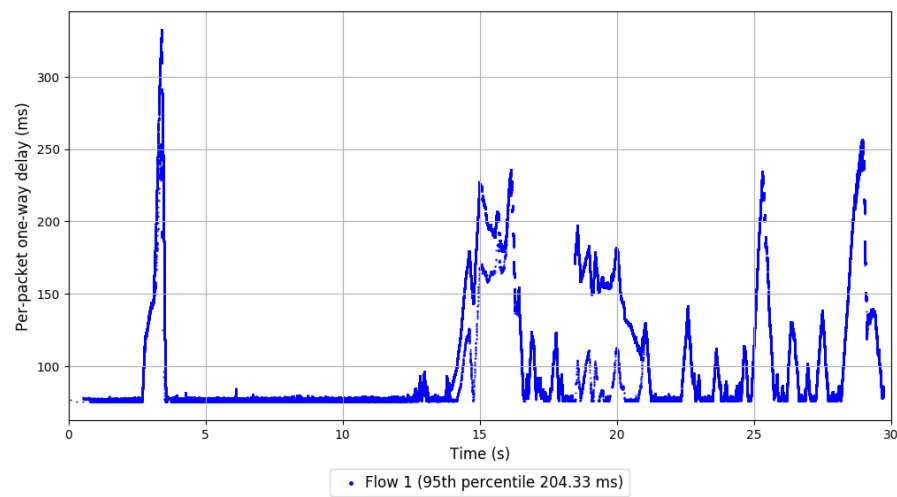
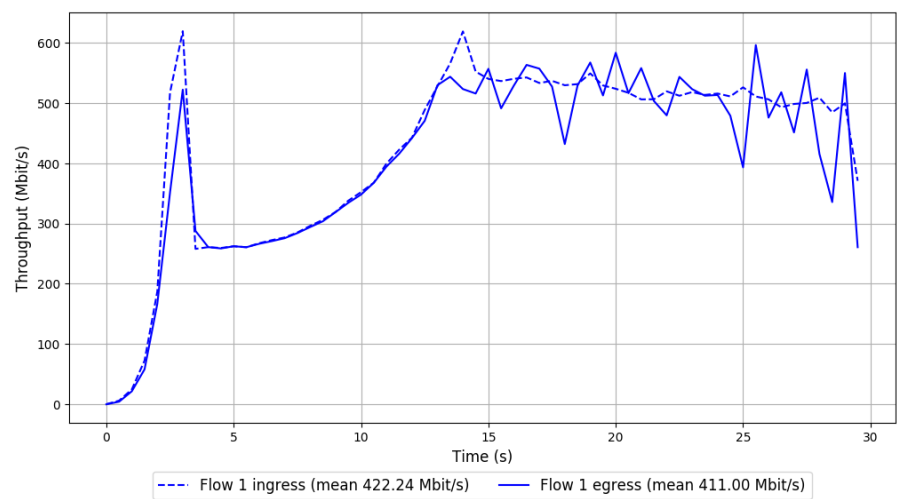
-- Flow 1:

Average throughput: 411.00 Mbit/s

95th percentile per-packet one-way delay: 204.328 ms

Loss rate: 3.39%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-30 11:38:31

End at: 2018-01-30 11:39:01

Below is generated by plot.py at 2018-01-30 16:08:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.21 Mbit/s

95th percentile per-packet one-way delay: 156.468 ms

Loss rate: 2.08%

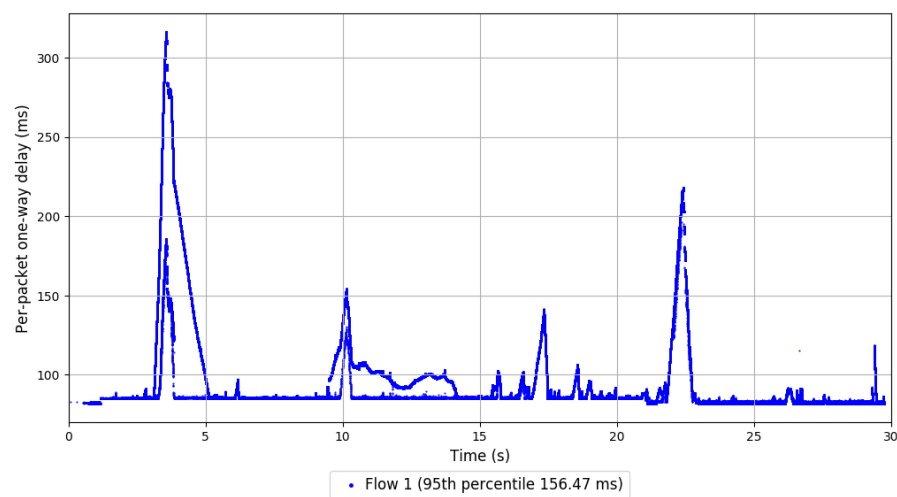
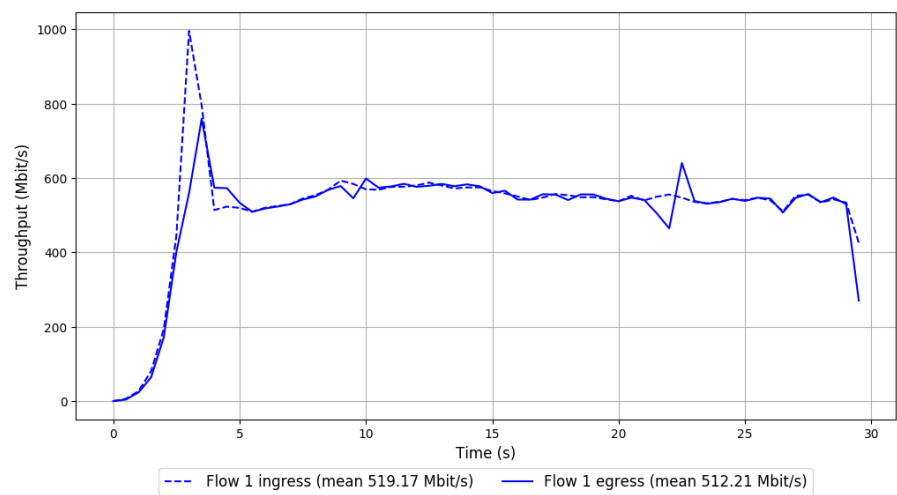
-- Flow 1:

Average throughput: 512.21 Mbit/s

95th percentile per-packet one-way delay: 156.468 ms

Loss rate: 2.08%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-30 11:53:07

End at: 2018-01-30 11:53:37

Below is generated by plot.py at 2018-01-30 16:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 528.32 Mbit/s

95th percentile per-packet one-way delay: 114.596 ms

Loss rate: 2.59%

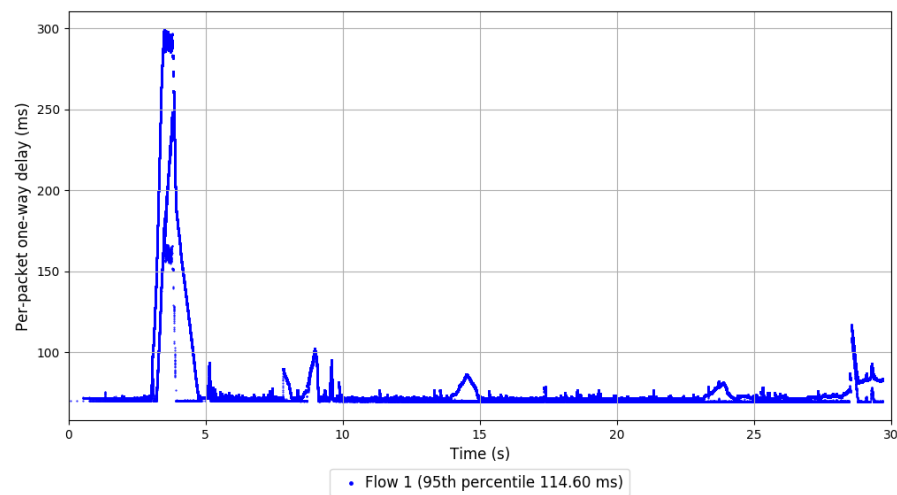
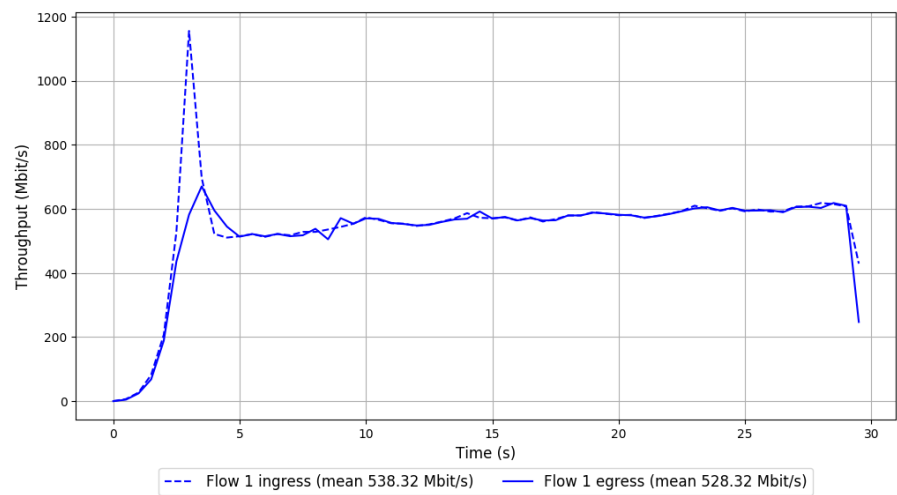
-- Flow 1:

Average throughput: 528.32 Mbit/s

95th percentile per-packet one-way delay: 114.596 ms

Loss rate: 2.59%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-30 12:08:12

End at: 2018-01-30 12:08:42

Below is generated by plot.py at 2018-01-30 16:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.75 Mbit/s

95th percentile per-packet one-way delay: 120.975 ms

Loss rate: 1.52%

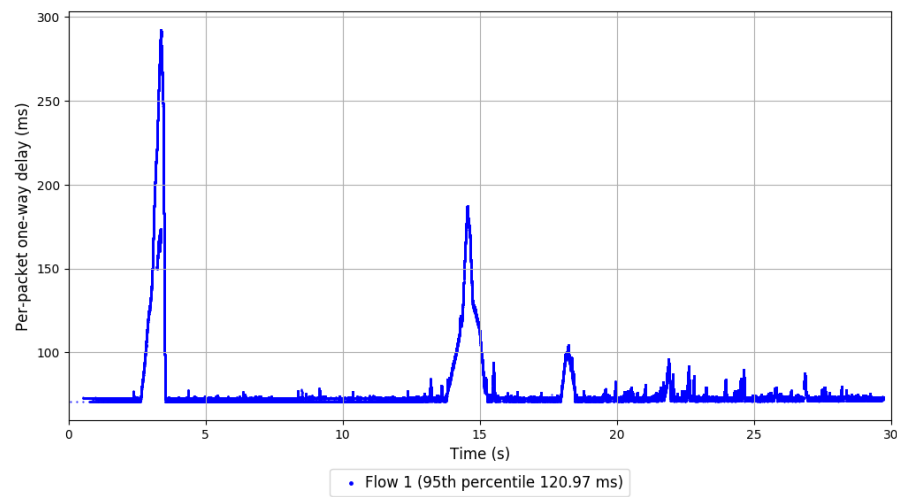
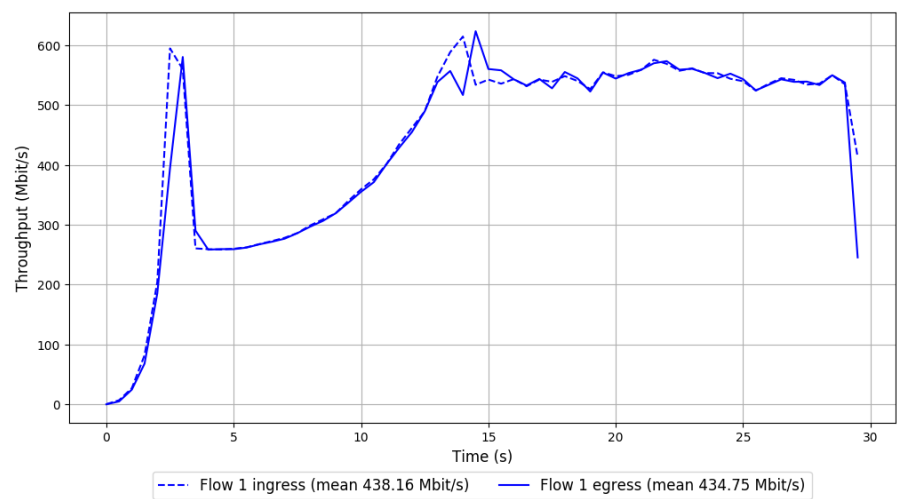
-- Flow 1:

Average throughput: 434.75 Mbit/s

95th percentile per-packet one-way delay: 120.975 ms

Loss rate: 1.52%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-30 12:23:09

End at: 2018-01-30 12:23:39

Below is generated by plot.py at 2018-01-30 16:08:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.93 Mbit/s

95th percentile per-packet one-way delay: 155.433 ms

Loss rate: 2.86%

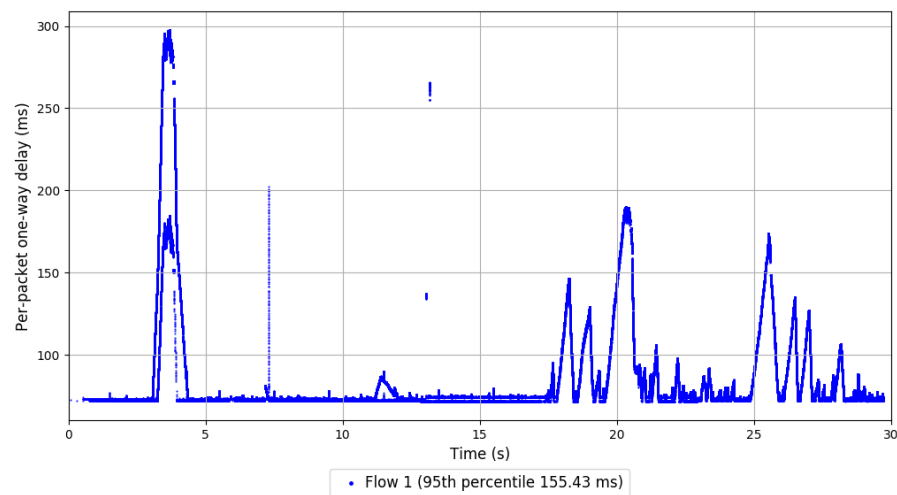
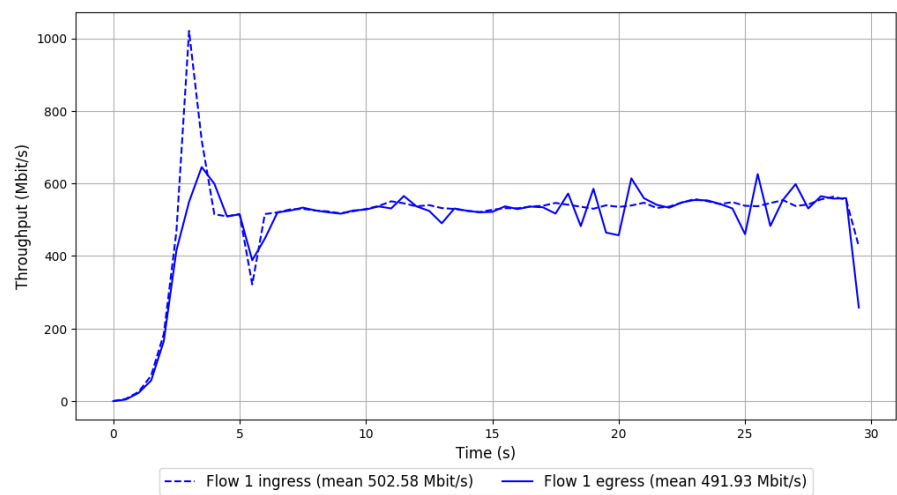
-- Flow 1:

Average throughput: 491.93 Mbit/s

95th percentile per-packet one-way delay: 155.433 ms

Loss rate: 2.86%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-30 12:37:47

End at: 2018-01-30 12:38:17

Below is generated by plot.py at 2018-01-30 16:08:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.94 Mbit/s

95th percentile per-packet one-way delay: 148.528 ms

Loss rate: 2.20%

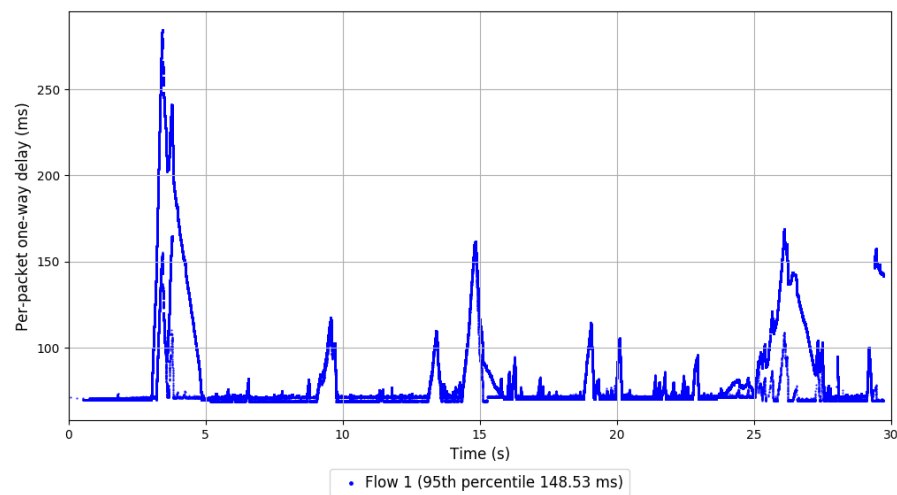
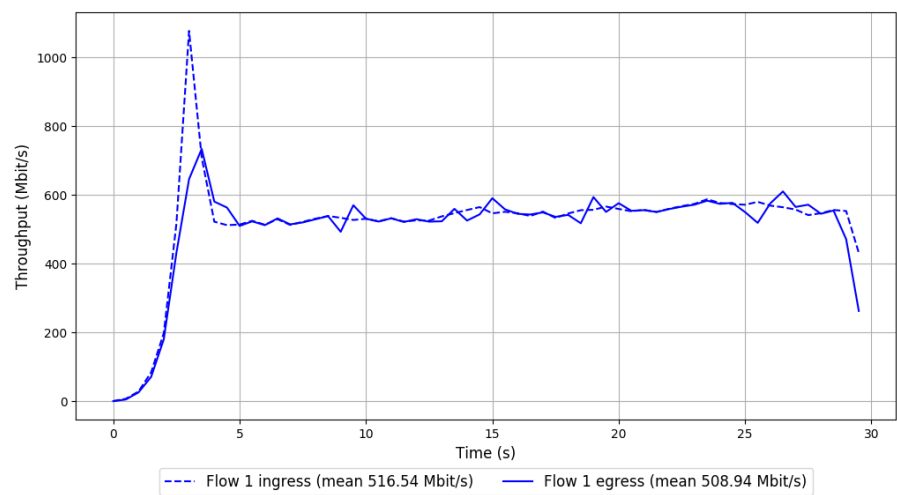
-- Flow 1:

Average throughput: 508.94 Mbit/s

95th percentile per-packet one-way delay: 148.528 ms

Loss rate: 2.20%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-30 12:52:28

End at: 2018-01-30 12:52:58

Below is generated by plot.py at 2018-01-30 16:08:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.82 Mbit/s

95th percentile per-packet one-way delay: 139.566 ms

Loss rate: 1.88%

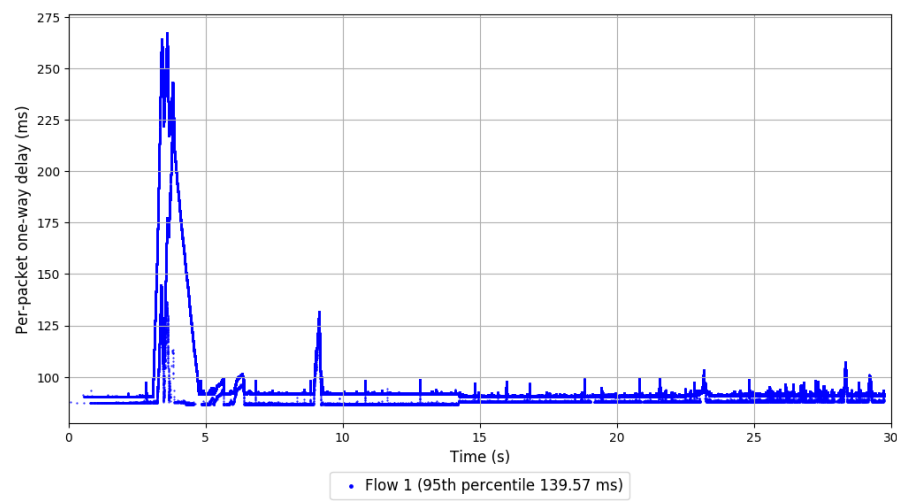
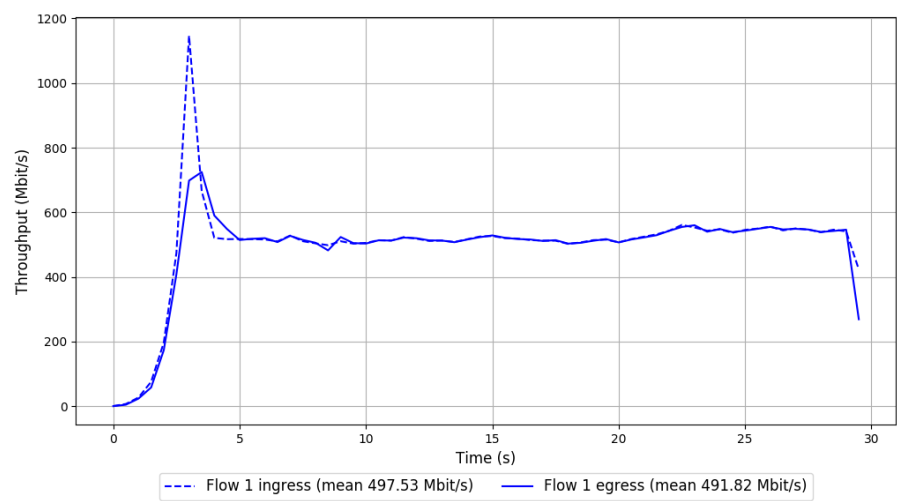
-- Flow 1:

Average throughput: 491.82 Mbit/s

95th percentile per-packet one-way delay: 139.566 ms

Loss rate: 1.88%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-30 13:07:09

End at: 2018-01-30 13:07:39

Below is generated by plot.py at 2018-01-30 16:11:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.89 Mbit/s

95th percentile per-packet one-way delay: 124.228 ms

Loss rate: 2.18%

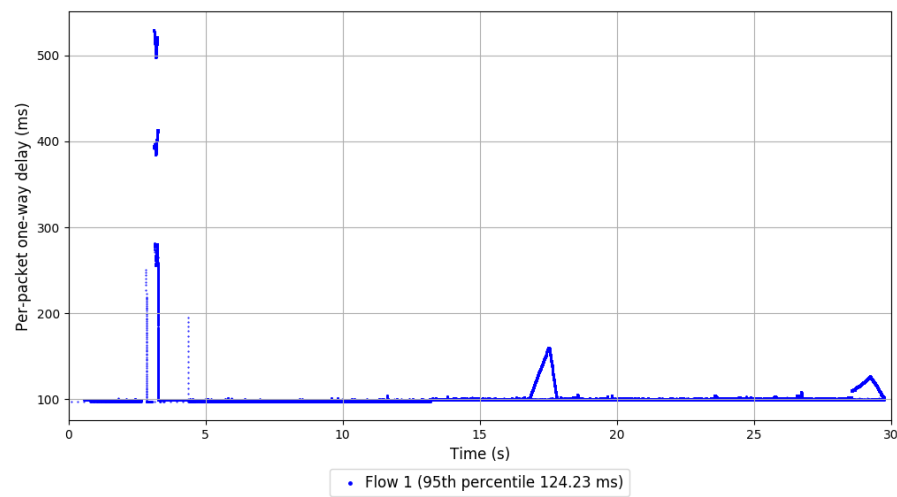
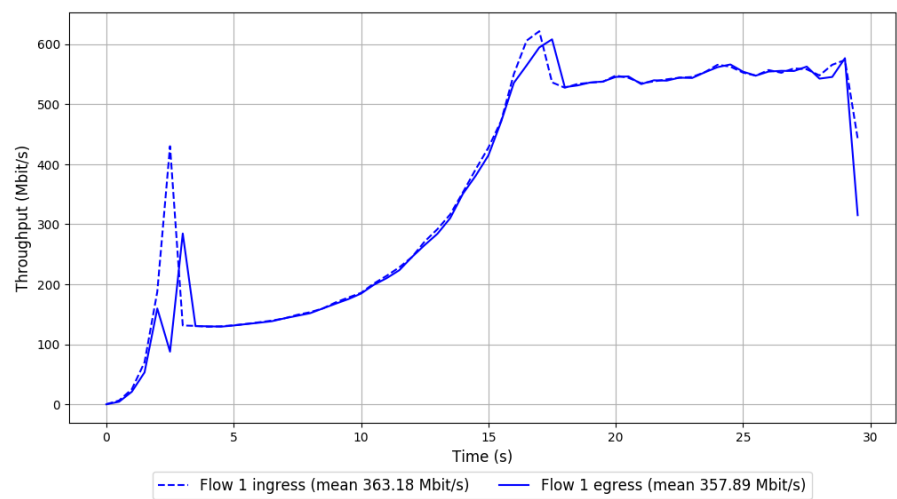
-- Flow 1:

Average throughput: 357.89 Mbit/s

95th percentile per-packet one-way delay: 124.228 ms

Loss rate: 2.18%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-30 13:21:41

End at: 2018-01-30 13:22:11

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 540.02 Mbit/s

95th percentile per-packet one-way delay: 225.594 ms

Loss rate: 3.09%

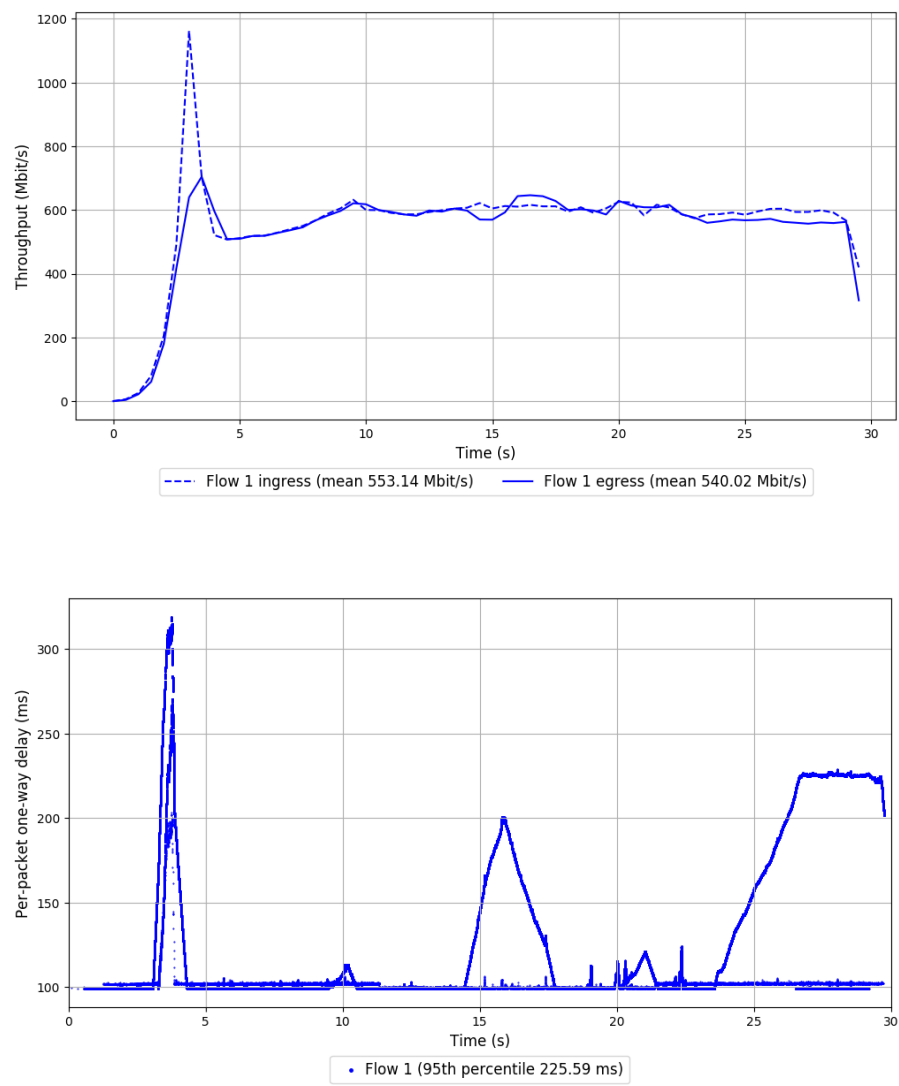
-- Flow 1:

Average throughput: 540.02 Mbit/s

95th percentile per-packet one-way delay: 225.594 ms

Loss rate: 3.09%

Run 10: Report of PCC — Data Link

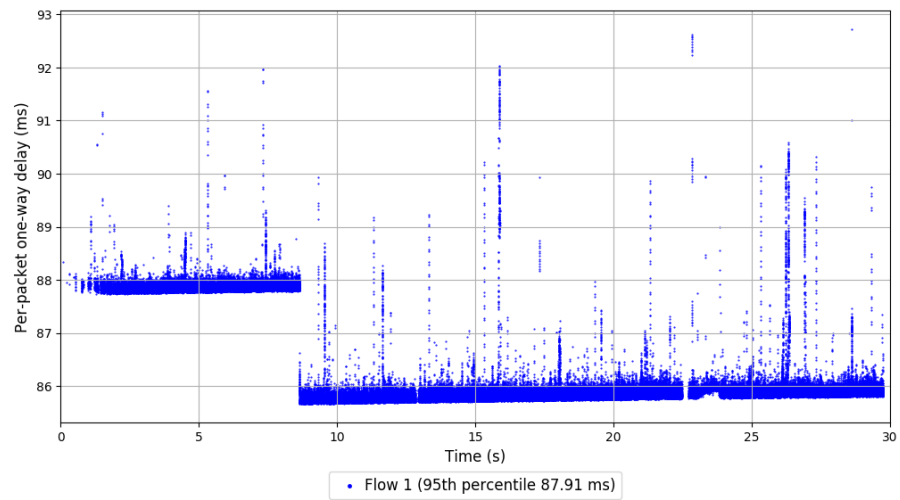
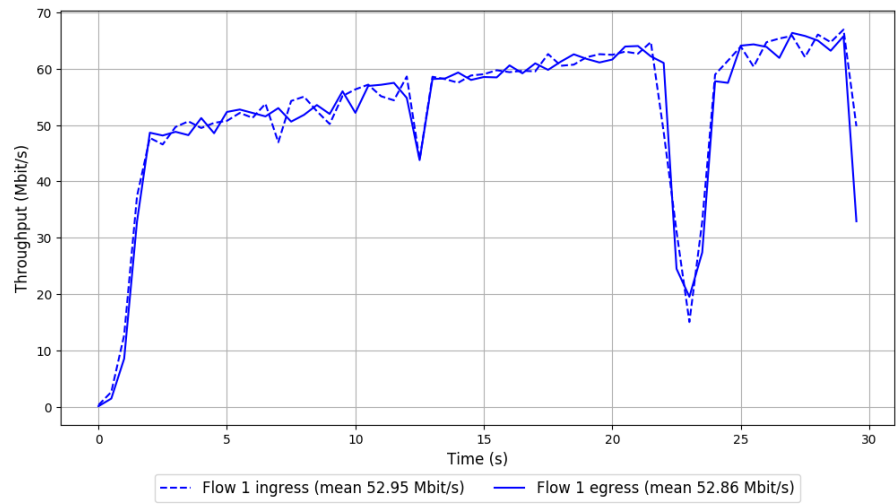


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-30 11:05:23
End at: 2018-01-30 11:05:53

# Below is generated by plot.py at 2018-01-30 16:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.86 Mbit/s
95th percentile per-packet one-way delay: 87.906 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 52.86 Mbit/s
95th percentile per-packet one-way delay: 87.906 ms
Loss rate: 0.92%
```


Run 1: Report of QUIC Cubic — Data Link

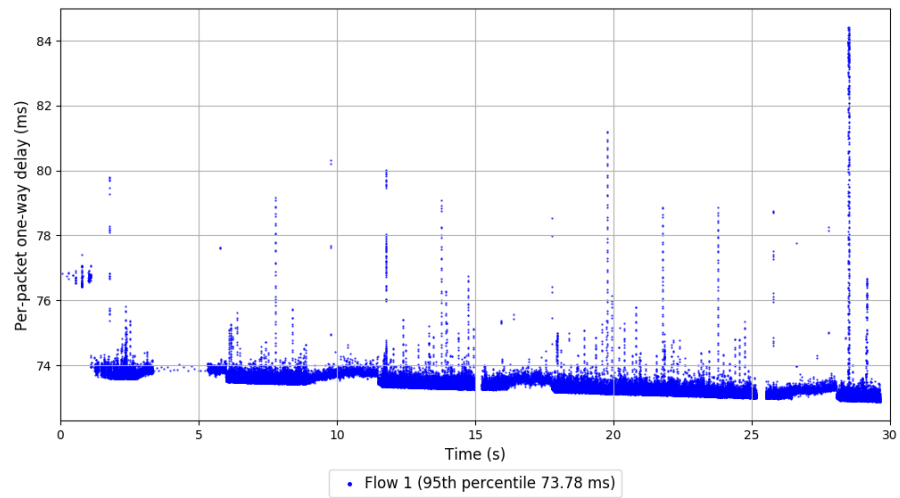
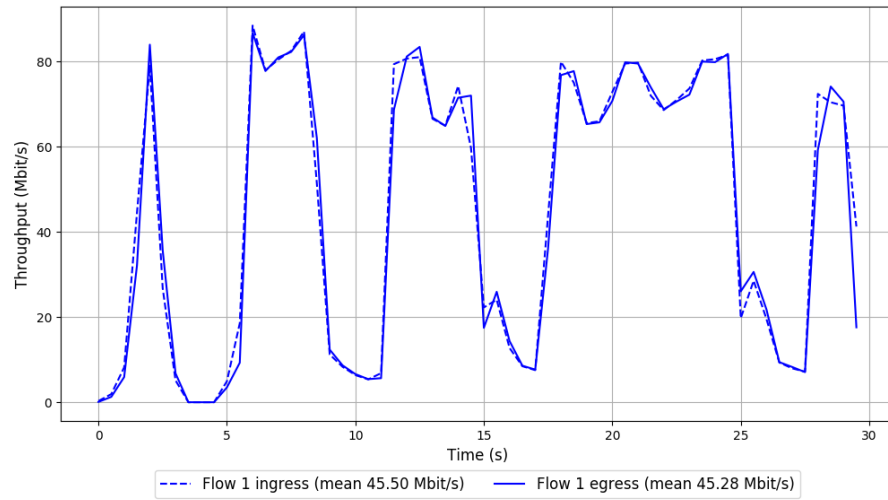


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-01-30 11:19:51
End at: 2018-01-30 11:20:21

# Below is generated by plot.py at 2018-01-30 16:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.28 Mbit/s
95th percentile per-packet one-way delay: 73.784 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 45.28 Mbit/s
95th percentile per-packet one-way delay: 73.784 ms
Loss rate: 1.23%
```

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-30 11:34:27

End at: 2018-01-30 11:34:57

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 84.447 ms

Loss rate: 0.99%

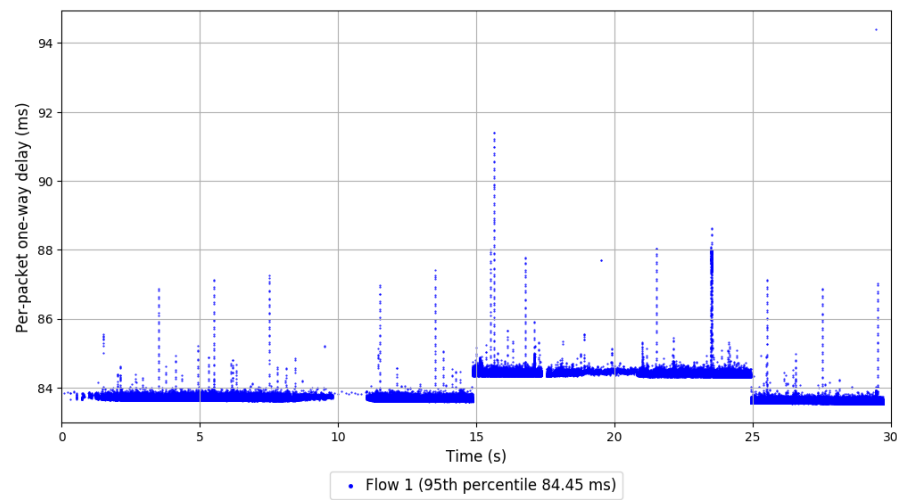
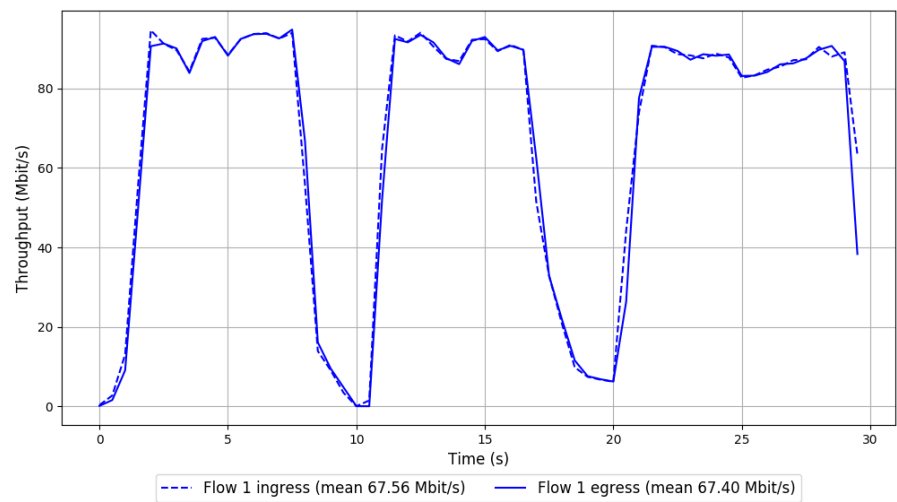
-- Flow 1:

Average throughput: 67.40 Mbit/s

95th percentile per-packet one-way delay: 84.447 ms

Loss rate: 0.99%

Run 3: Report of QUIC Cubic — Data Link

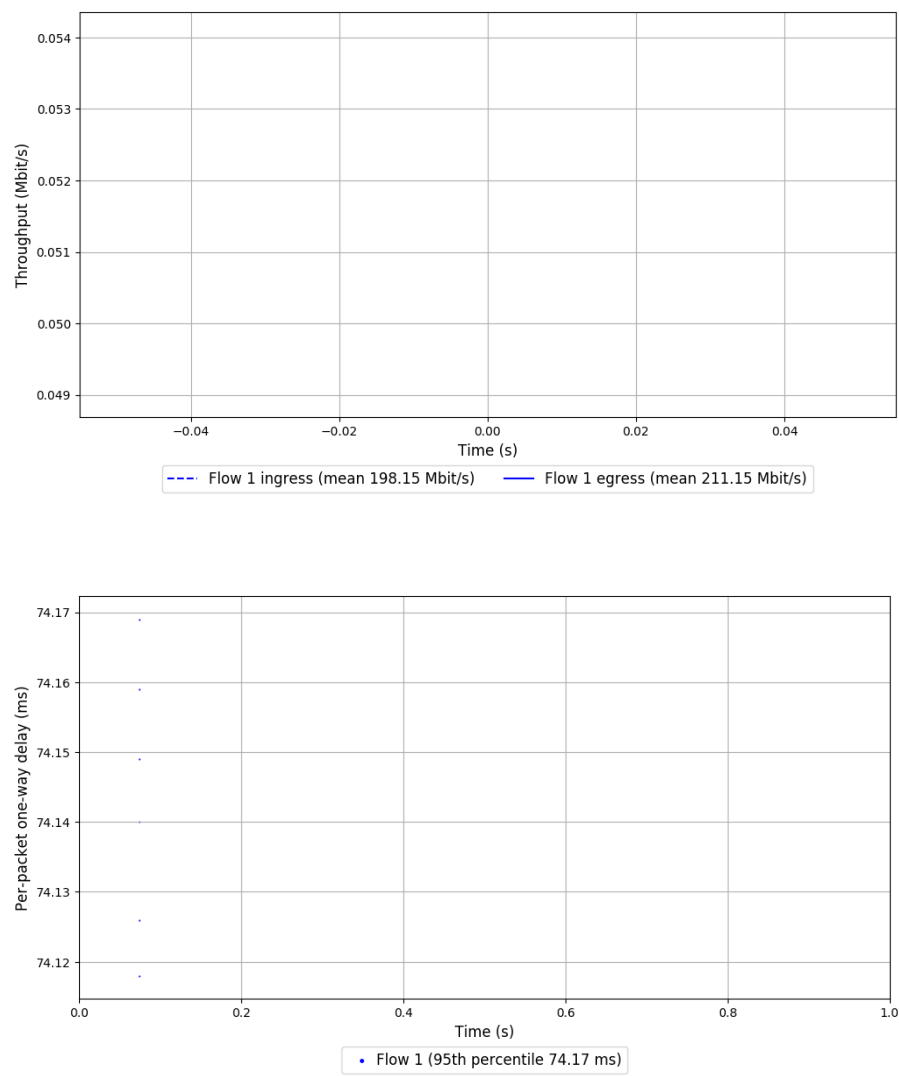


Run 4: Statistics of QUIC Cubic

Start at: 2018-01-30 11:49:08

End at: 2018-01-30 11:49:38

Run 4: Report of QUIC Cubic — Data Link

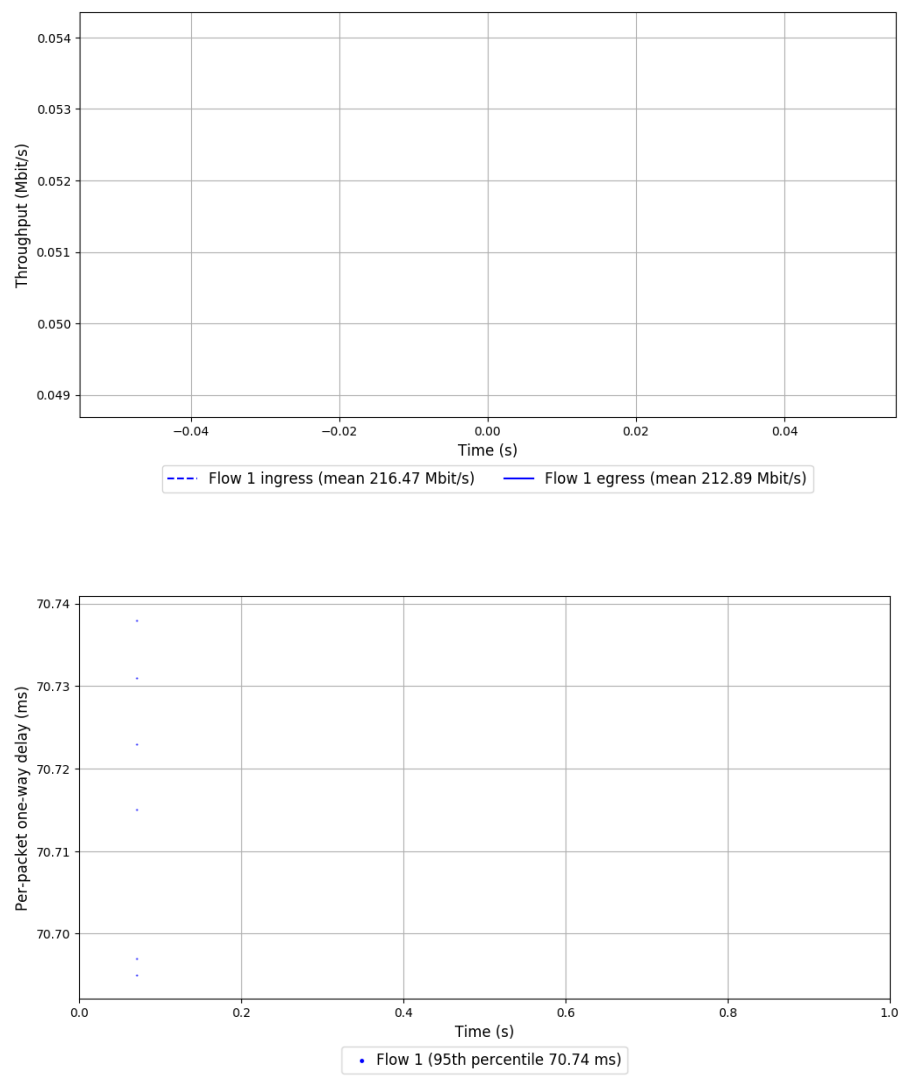


Run 5: Statistics of QUIC Cubic

Start at: 2018-01-30 12:03:45

End at: 2018-01-30 12:04:15

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-30 12:18:58

End at: 2018-01-30 12:19:28

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 74.825 ms

Loss rate: 1.16%

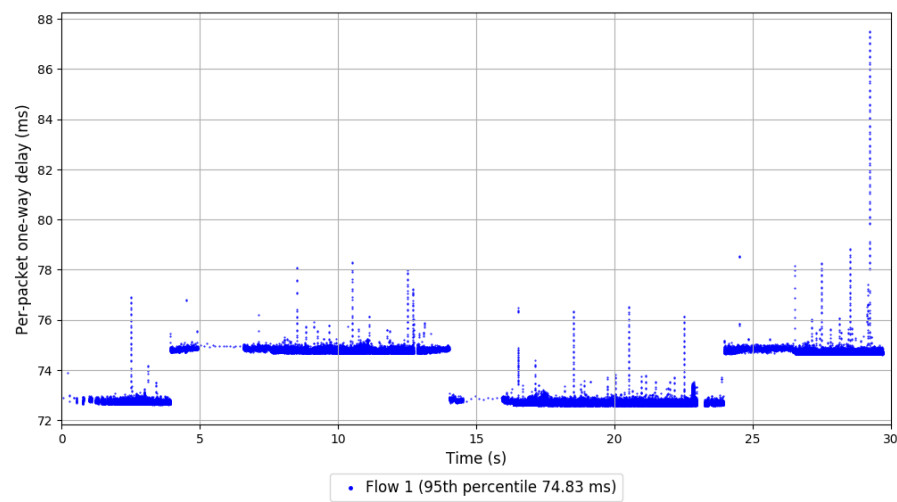
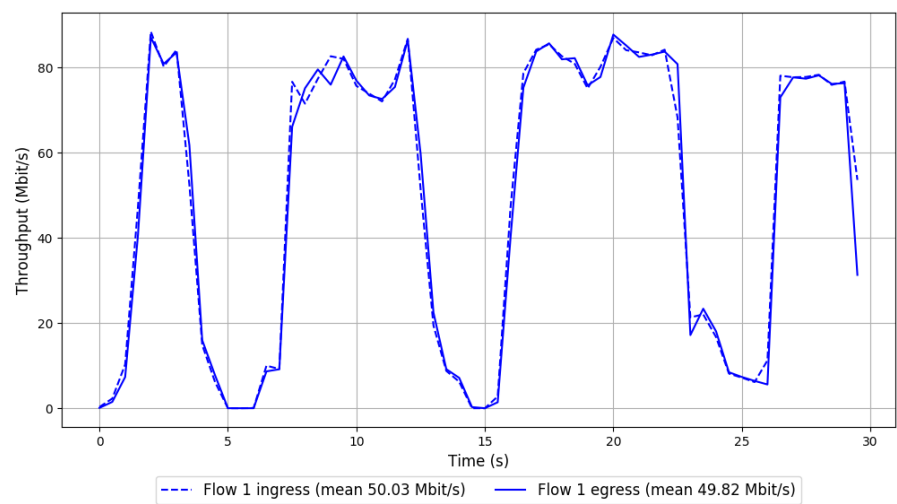
-- Flow 1:

Average throughput: 49.82 Mbit/s

95th percentile per-packet one-way delay: 74.825 ms

Loss rate: 1.16%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-30 12:33:40

End at: 2018-01-30 12:34:10

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.58 Mbit/s

95th percentile per-packet one-way delay: 65.405 ms

Loss rate: 0.85%

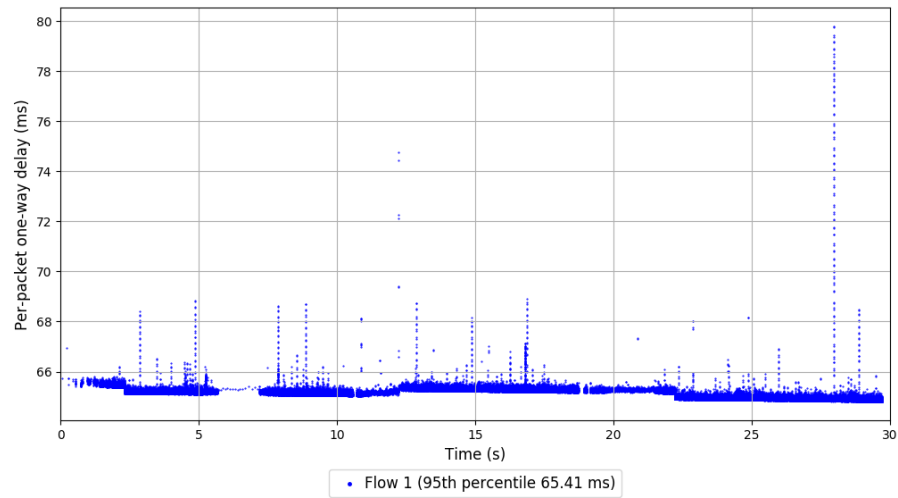
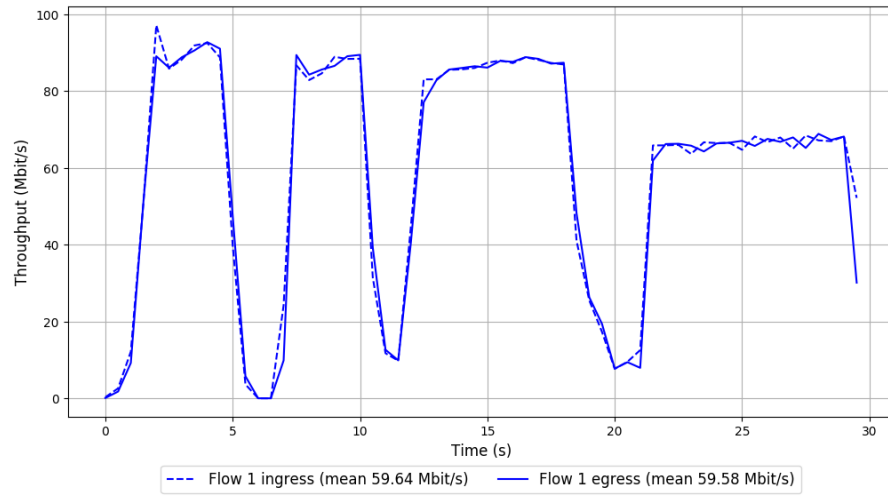
-- Flow 1:

Average throughput: 59.58 Mbit/s

95th percentile per-packet one-way delay: 65.405 ms

Loss rate: 0.85%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-30 12:48:19

End at: 2018-01-30 12:48:49

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.58 Mbit/s

95th percentile per-packet one-way delay: 85.635 ms

Loss rate: 0.97%

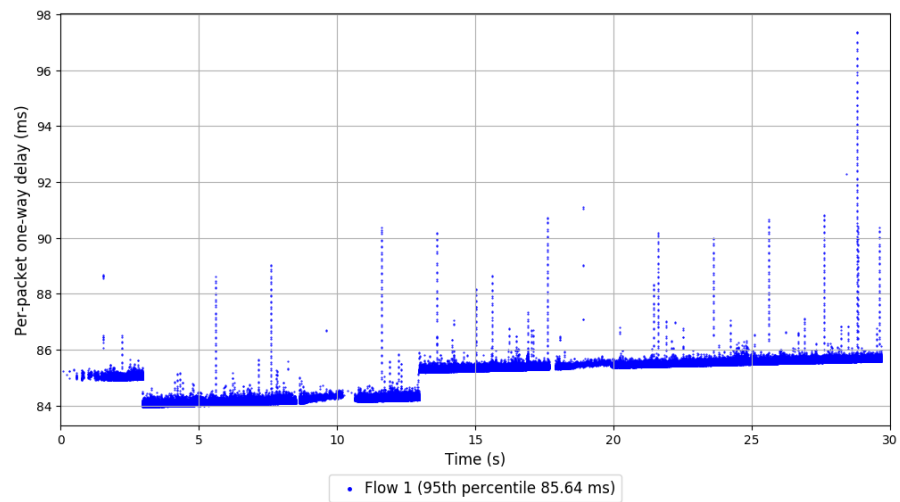
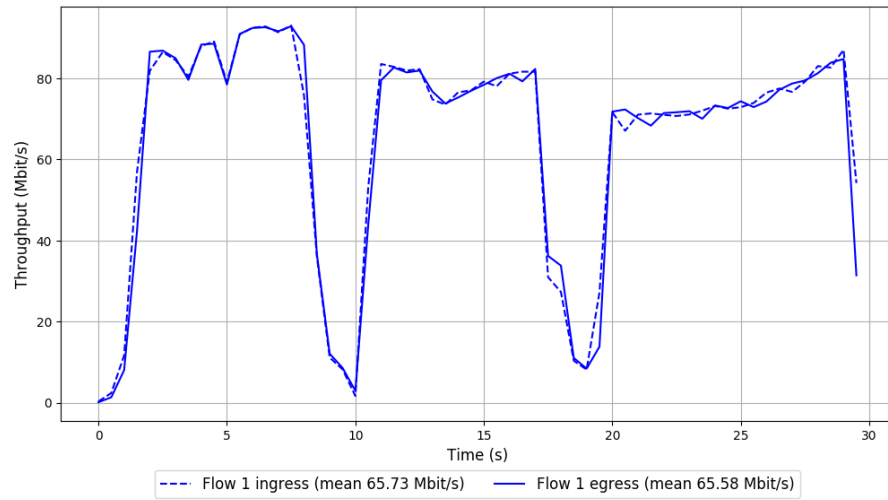
-- Flow 1:

Average throughput: 65.58 Mbit/s

95th percentile per-packet one-way delay: 85.635 ms

Loss rate: 0.97%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-30 13:03:02

End at: 2018-01-30 13:03:32

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.72 Mbit/s

95th percentile per-packet one-way delay: 96.165 ms

Loss rate: 0.93%

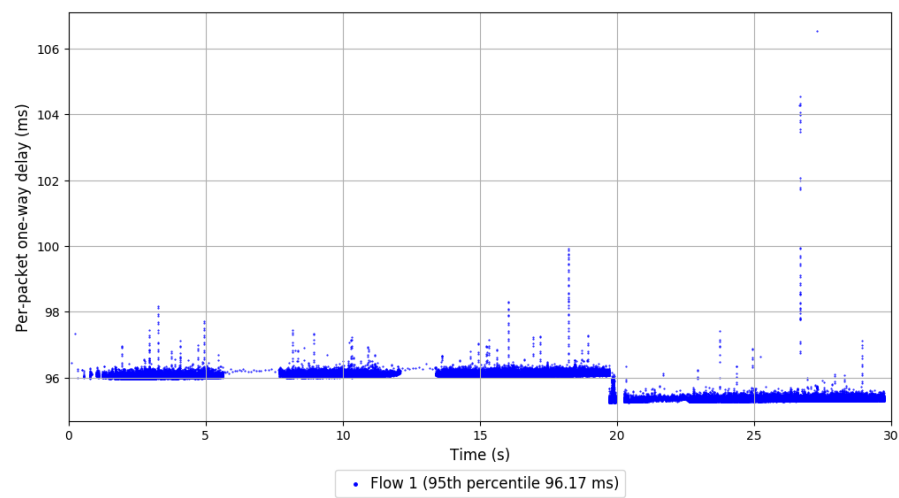
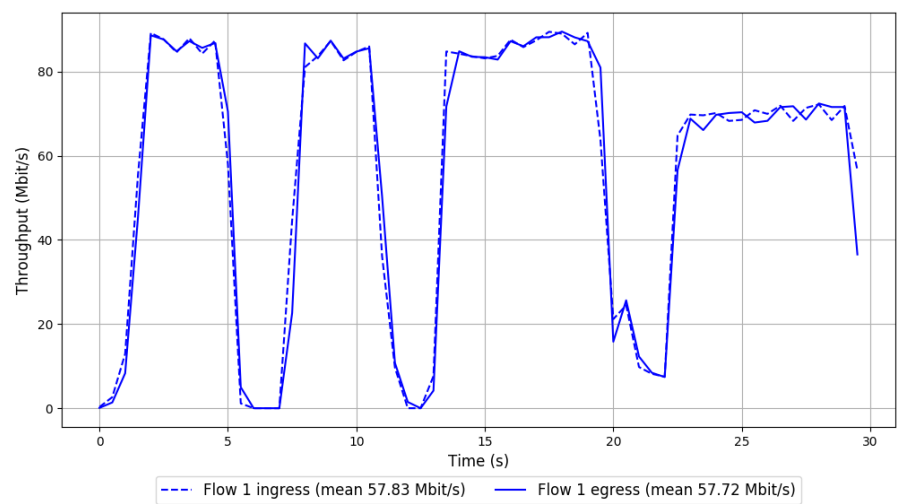
-- Flow 1:

Average throughput: 57.72 Mbit/s

95th percentile per-packet one-way delay: 96.165 ms

Loss rate: 0.93%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-30 13:17:36

End at: 2018-01-30 13:18:06

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 100.725 ms

Loss rate: 0.95%

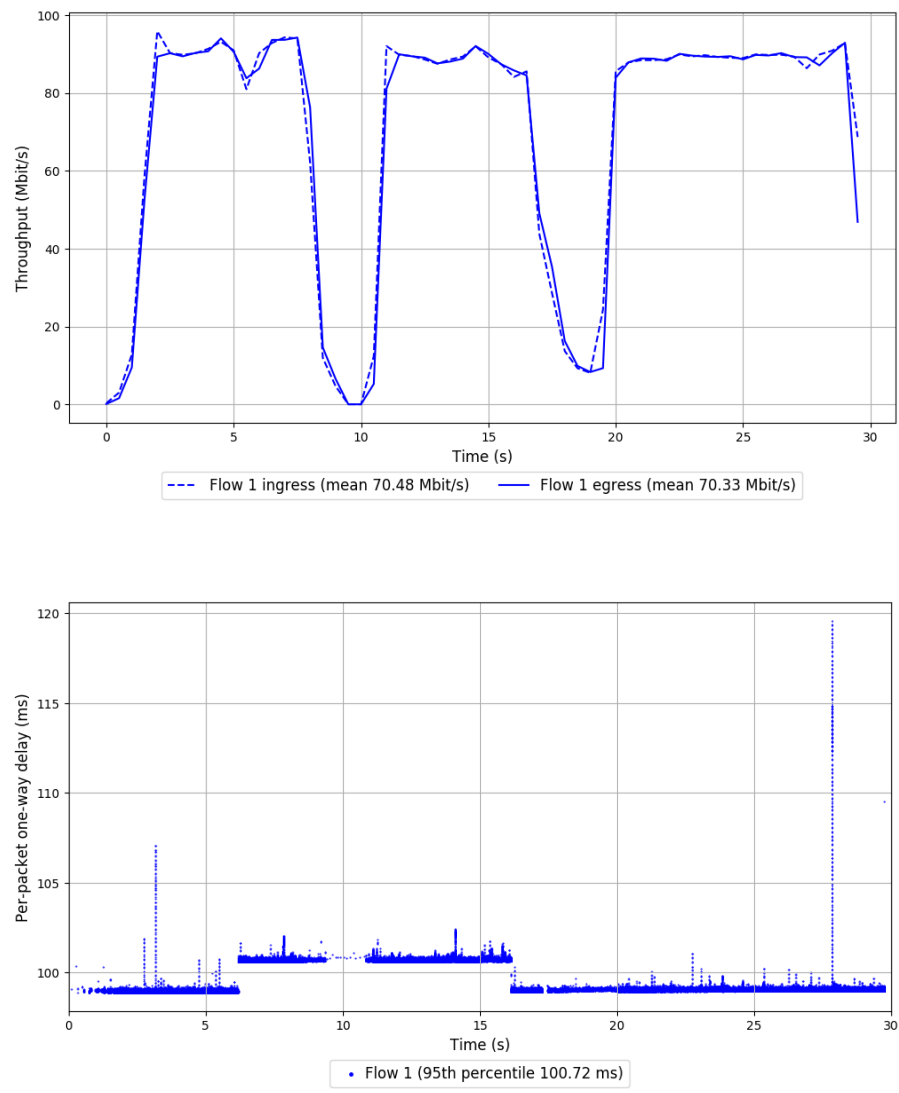
-- Flow 1:

Average throughput: 70.33 Mbit/s

95th percentile per-packet one-way delay: 100.725 ms

Loss rate: 0.95%

Run 10: Report of QUIC Cubic — Data Link

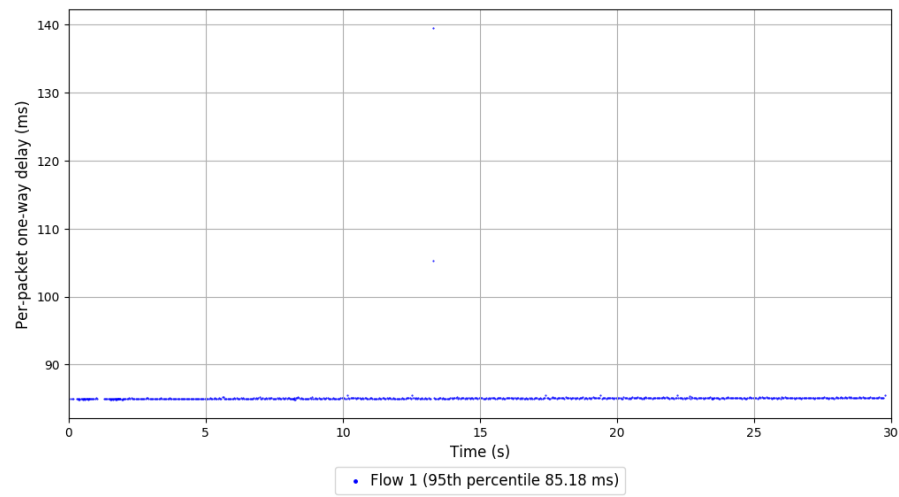
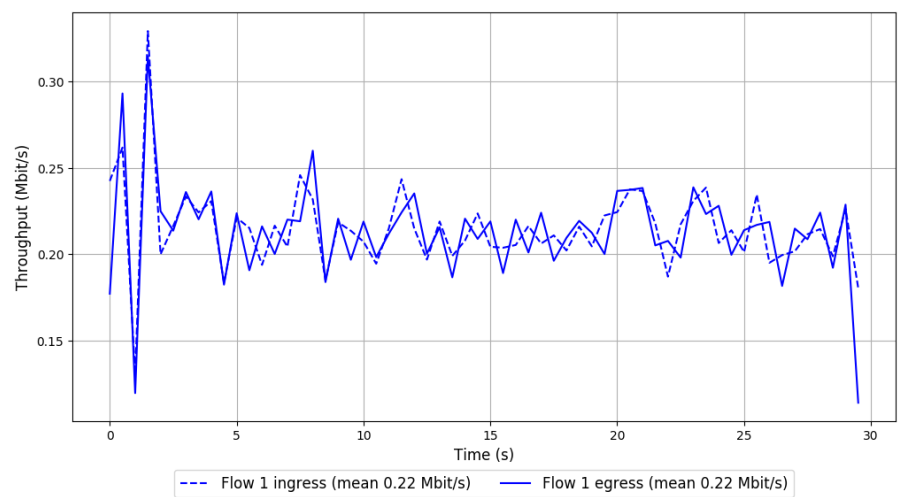


```
Run 1: Statistics of SCReAM

Start at: 2018-01-30 11:02:00
End at: 2018-01-30 11:02:30

# Below is generated by plot.py at 2018-01-30 16:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.182 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.182 ms
Loss rate: 0.76%
```

Run 1: Report of SReAM — Data Link

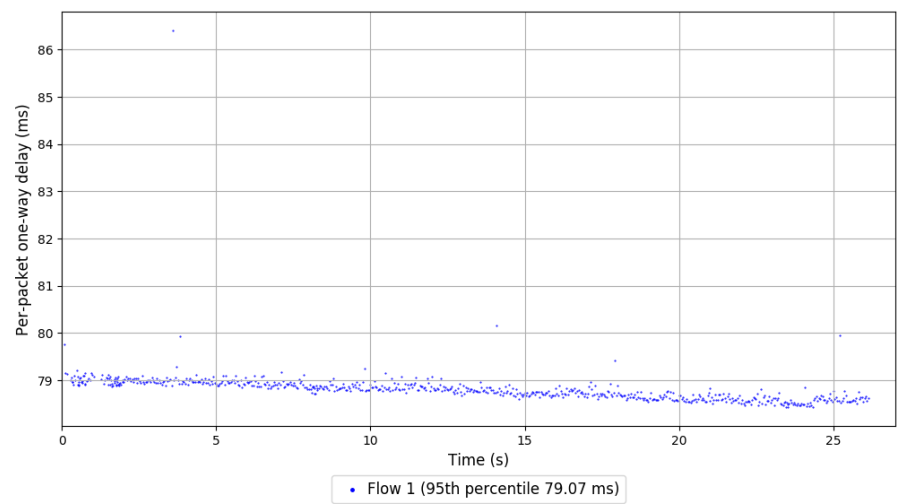
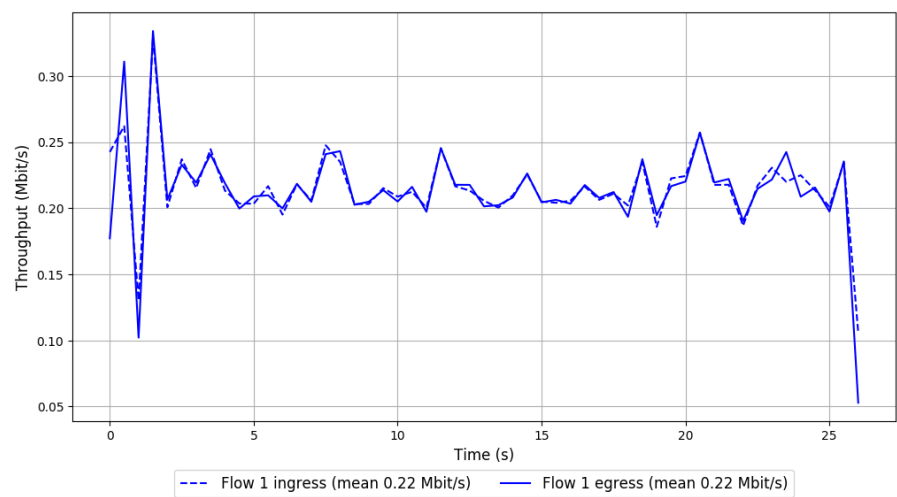


```
Run 2: Statistics of SCReAM

Start at: 2018-01-30 11:16:36
End at: 2018-01-30 11:17:06

# Below is generated by plot.py at 2018-01-30 16:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.068 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.068 ms
Loss rate: 0.77%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-30 11:31:18

End at: 2018-01-30 11:31:48

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 85.221 ms

Loss rate: 0.73%

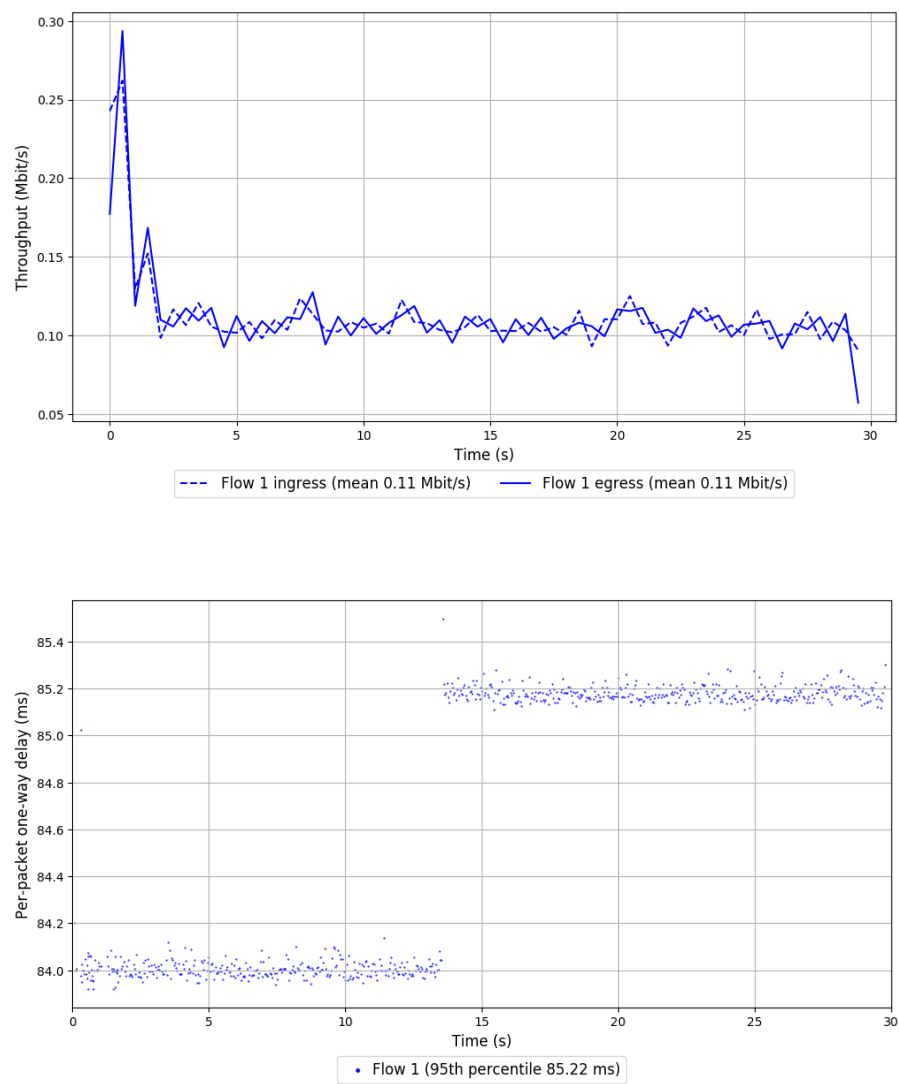
-- Flow 1:

Average throughput: 0.11 Mbit/s

95th percentile per-packet one-way delay: 85.221 ms

Loss rate: 0.73%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-30 11:45:53

End at: 2018-01-30 11:46:23

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 76.890 ms

Loss rate: 0.76%

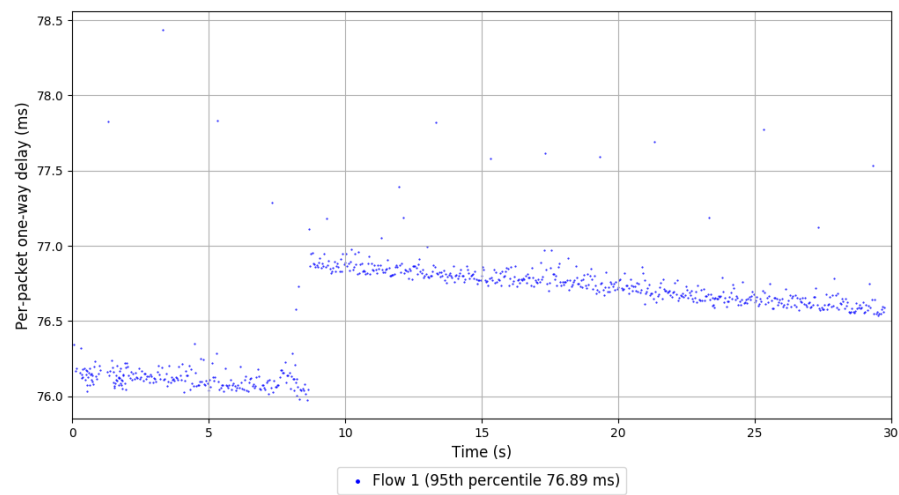
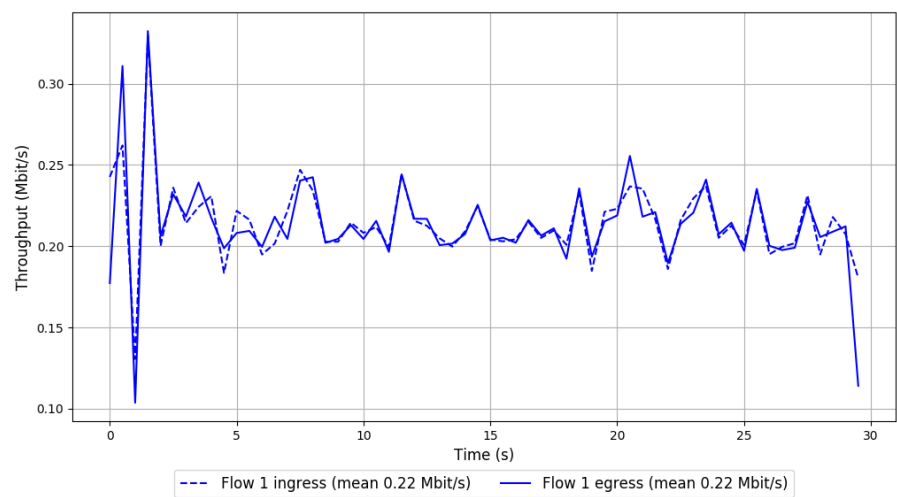
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 76.890 ms

Loss rate: 0.76%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-30 12:00:29

End at: 2018-01-30 12:00:59

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.416 ms

Loss rate: 0.76%

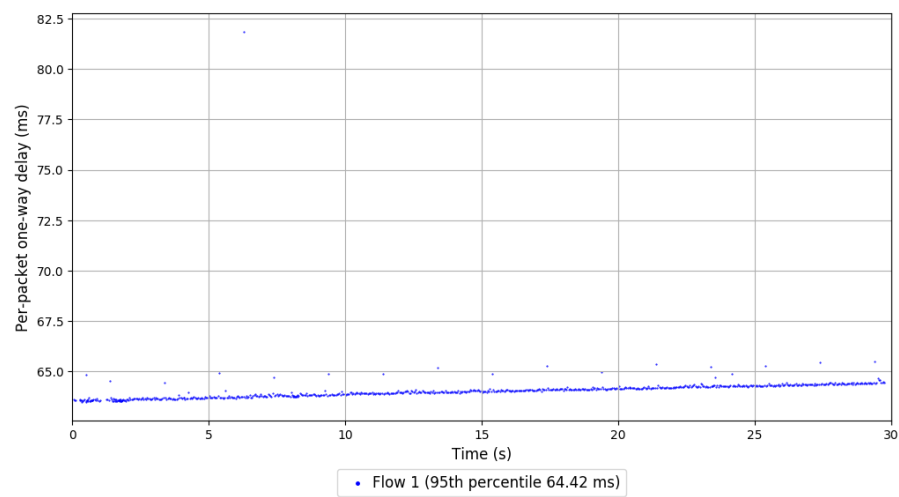
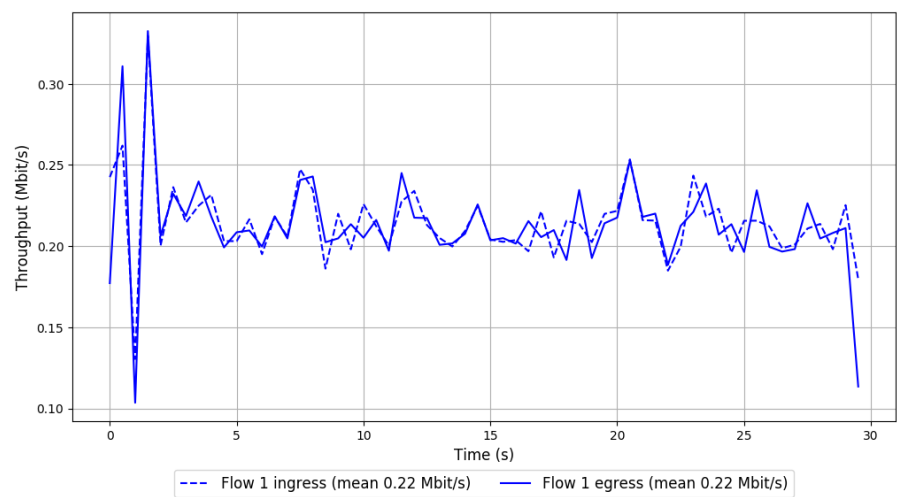
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 64.416 ms

Loss rate: 0.76%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-30 12:15:24

End at: 2018-01-30 12:15:54

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 73.593 ms

Loss rate: 0.84%

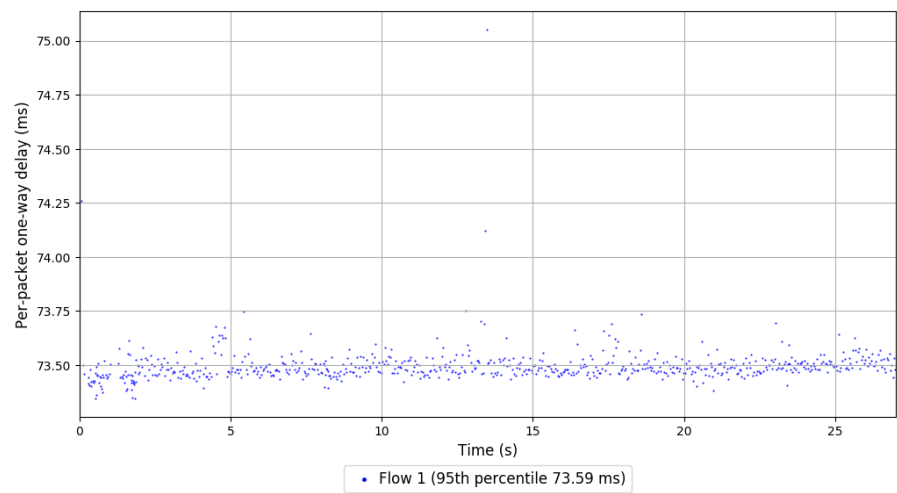
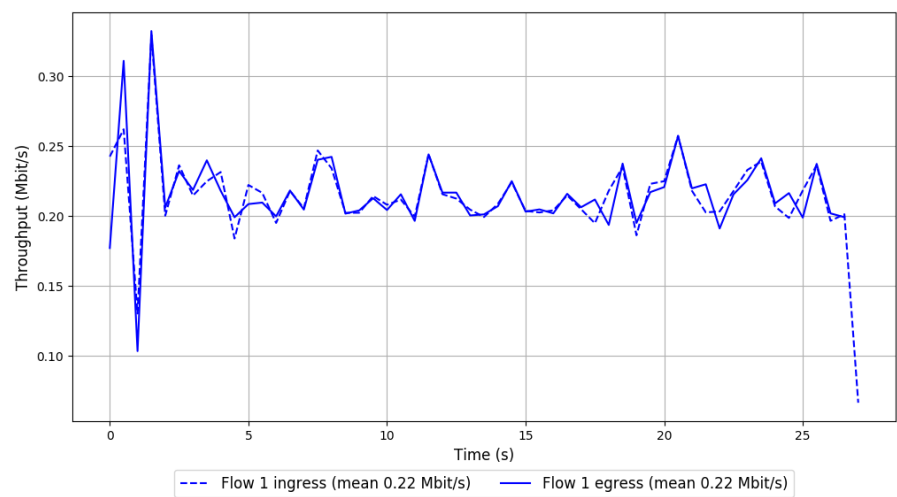
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 73.593 ms

Loss rate: 0.84%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-30 12:30:26

End at: 2018-01-30 12:30:56

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 69.304 ms

Loss rate: 0.76%

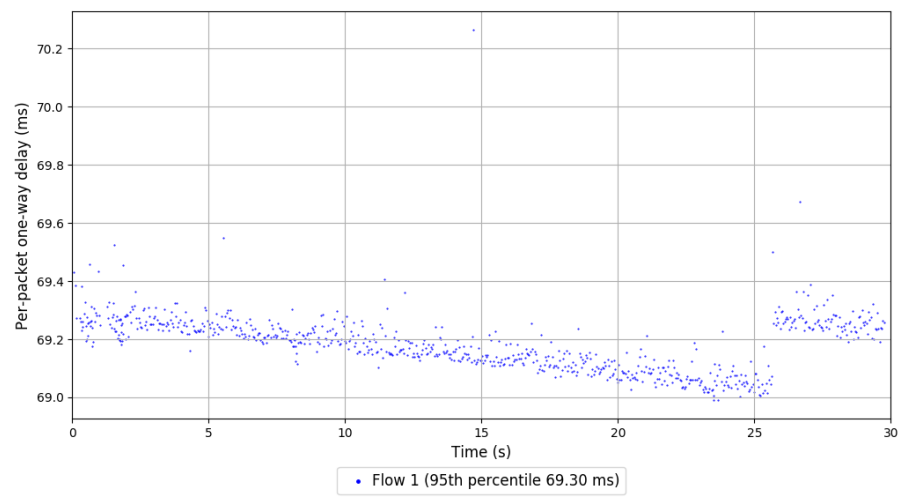
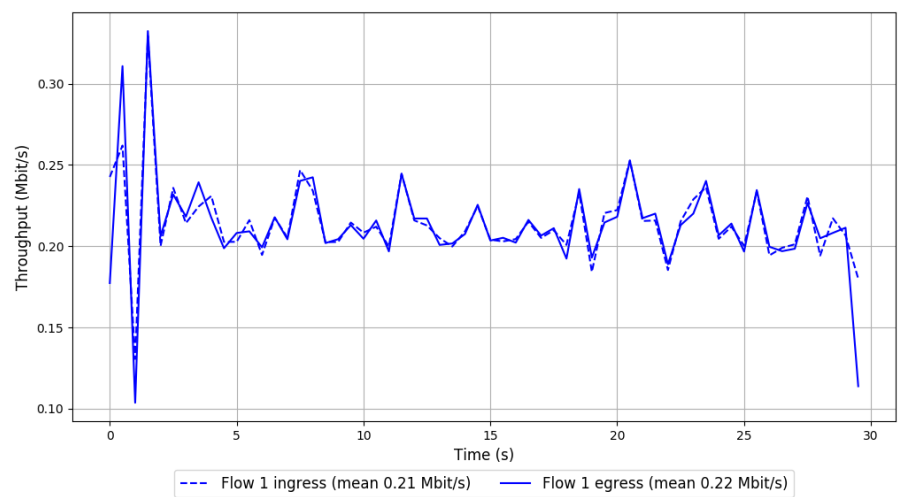
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 69.304 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-30 12:45:02

End at: 2018-01-30 12:45:32

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.524 ms

Loss rate: 0.98%

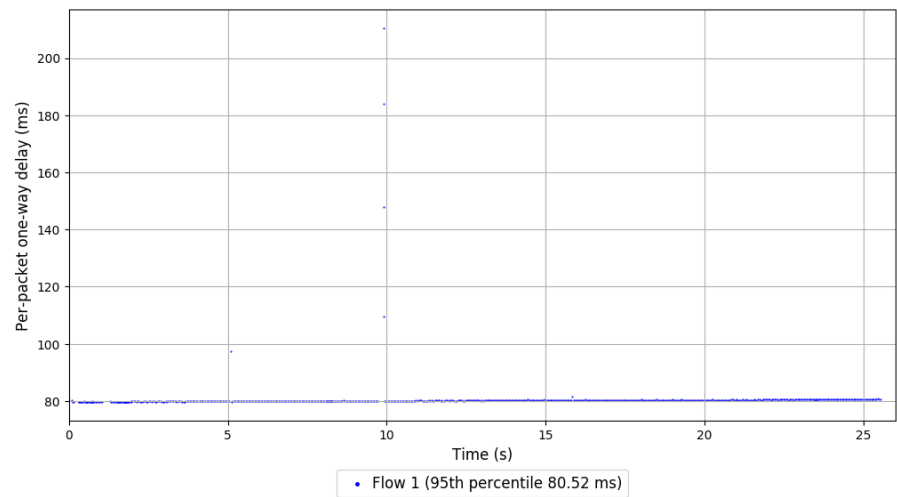
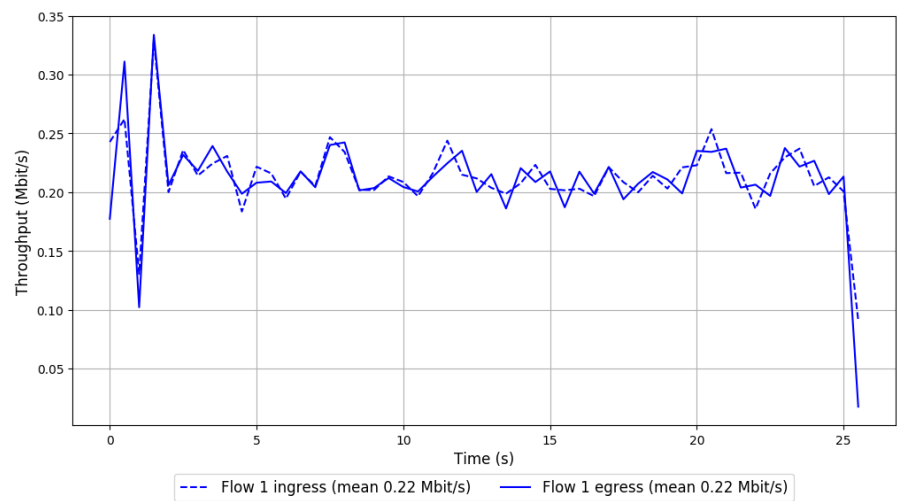
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.524 ms

Loss rate: 0.98%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-30 12:59:41

End at: 2018-01-30 13:00:11

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 96.554 ms

Loss rate: 0.76%

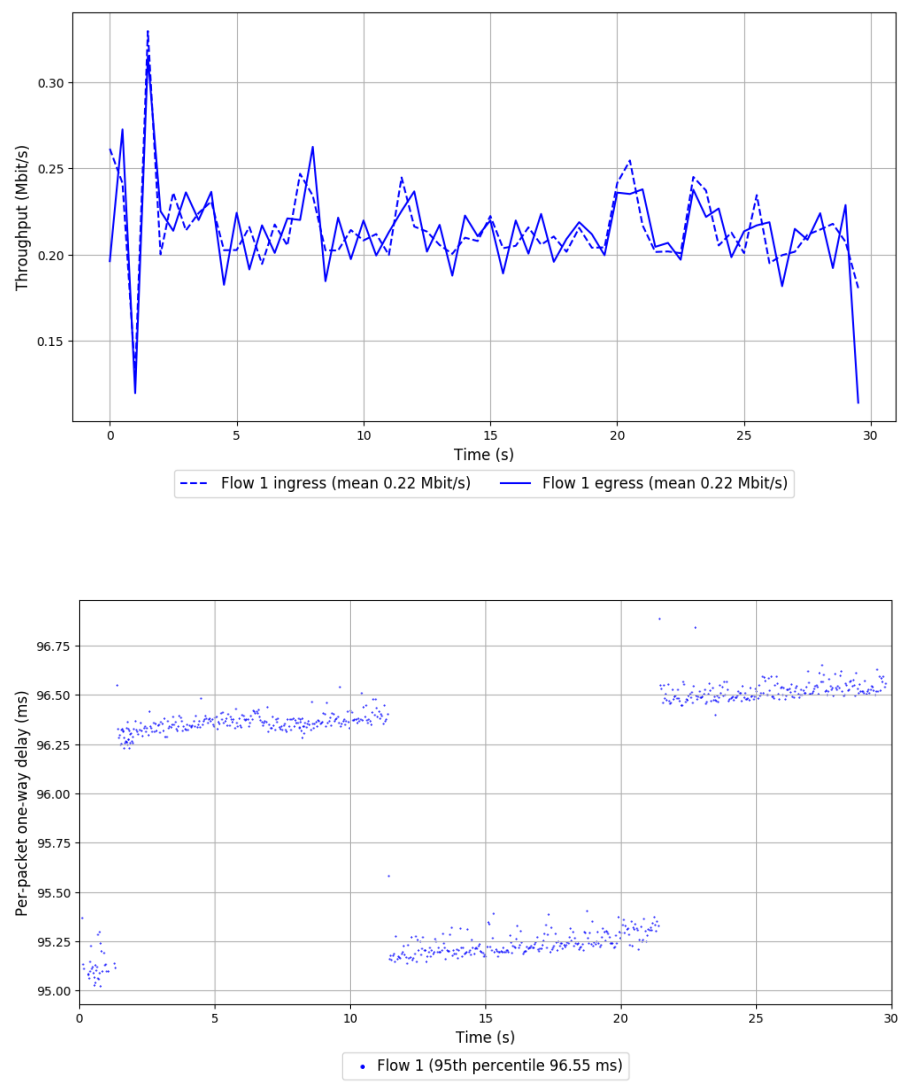
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 96.554 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-30 13:14:21

End at: 2018-01-30 13:14:51

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.375 ms

Loss rate: 0.64%

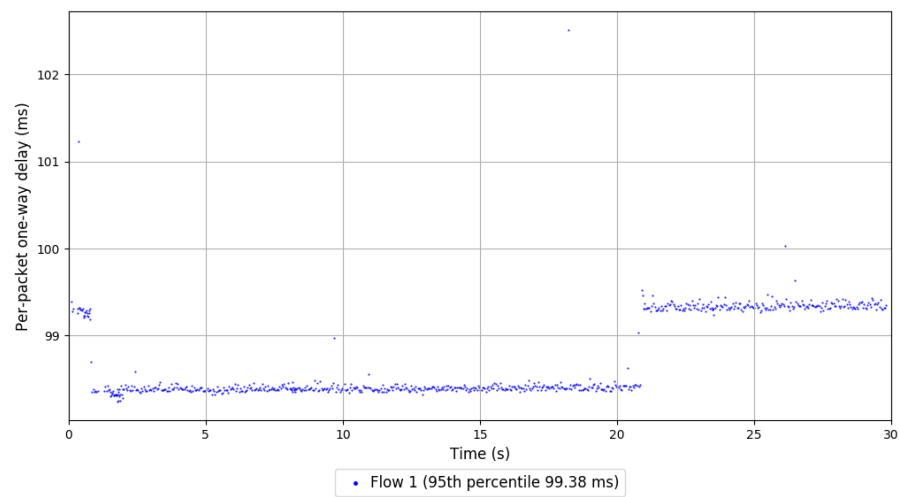
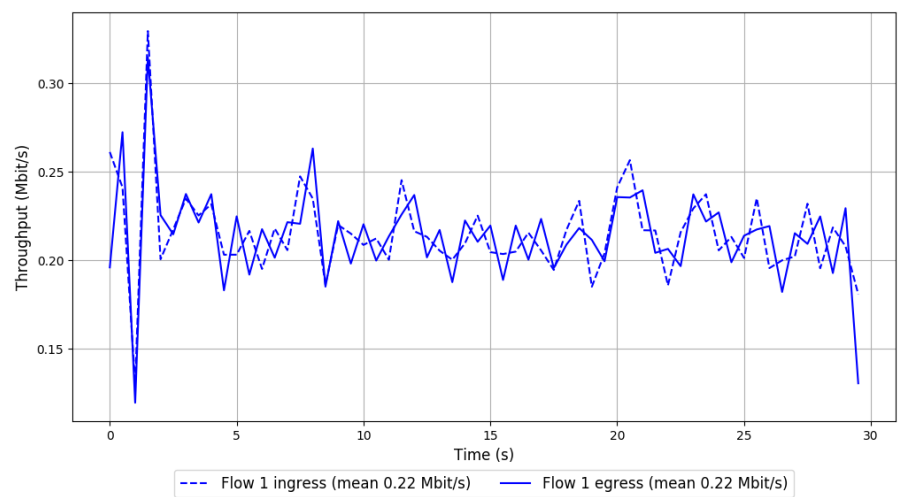
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.375 ms

Loss rate: 0.64%

Run 10: Report of SReAM — Data Link

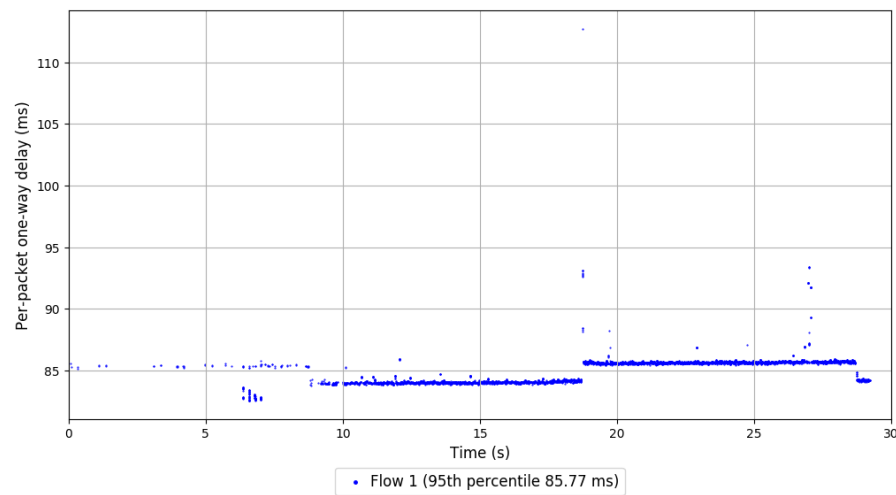
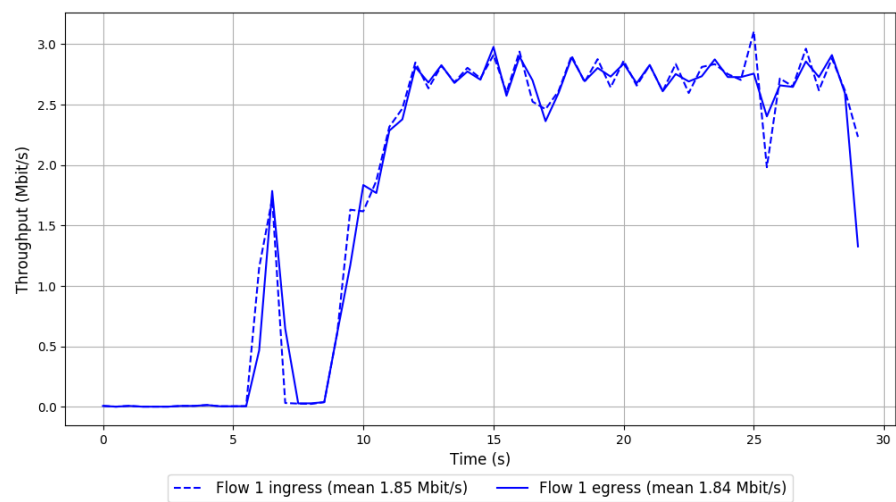


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-30 11:00:13
End at: 2018-01-30 11:00:43

# Below is generated by plot.py at 2018-01-30 16:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 85.766 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 85.766 ms
Loss rate: 1.24%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-30 11:14:55

End at: 2018-01-30 11:15:25

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 84.606 ms

Loss rate: 1.17%

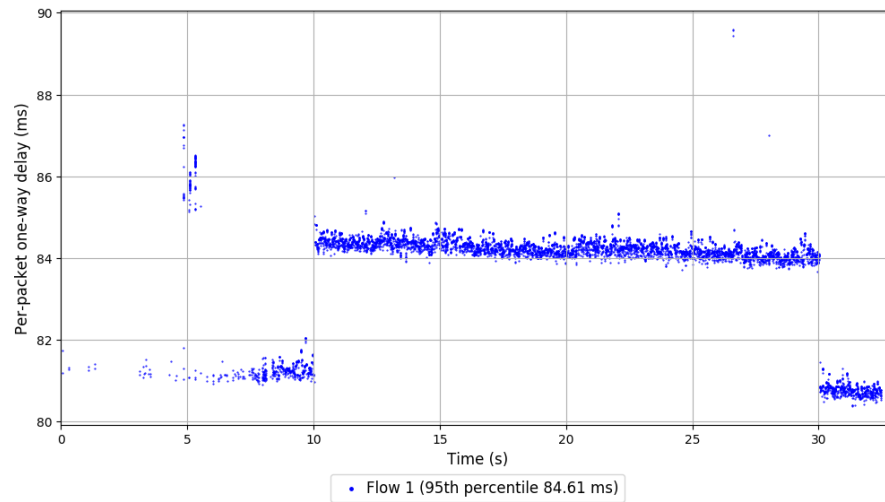
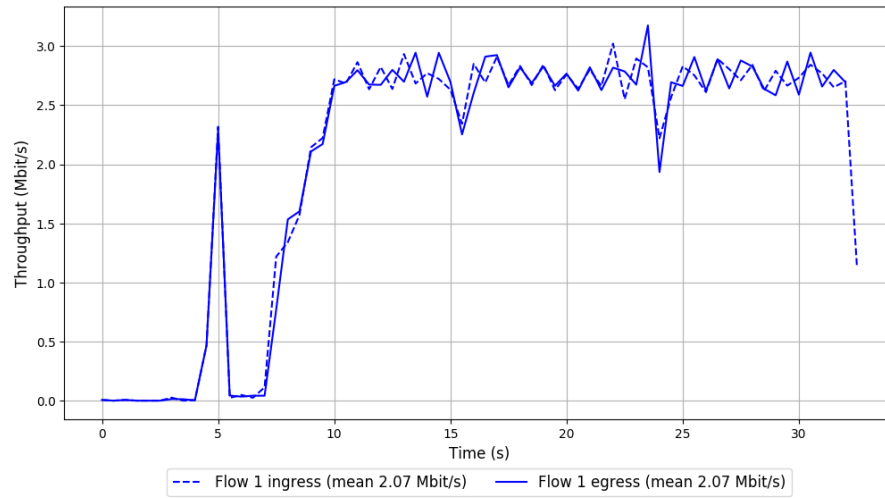
-- Flow 1:

Average throughput: 2.07 Mbit/s

95th percentile per-packet one-way delay: 84.606 ms

Loss rate: 1.17%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-30 11:29:30

End at: 2018-01-30 11:30:00

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 87.196 ms

Loss rate: 0.94%

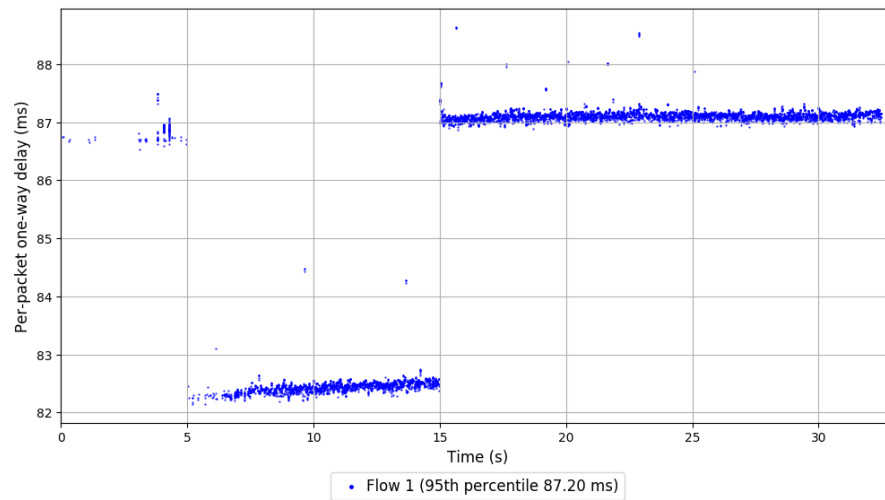
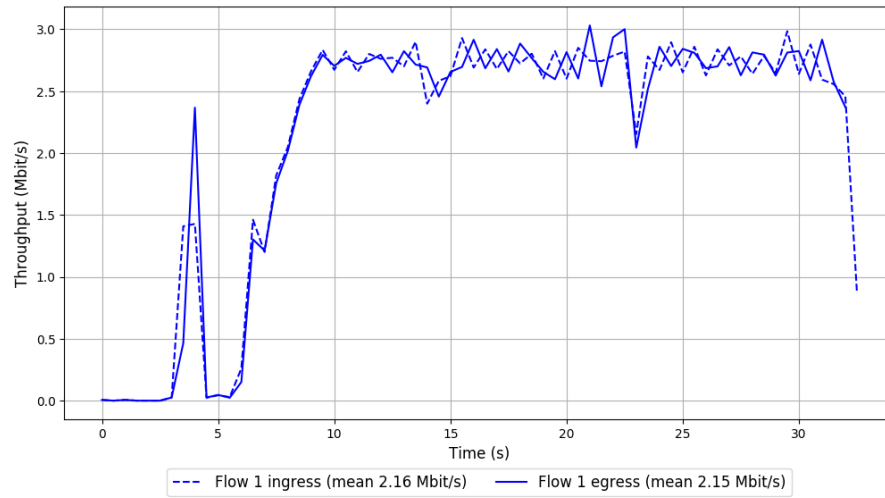
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 87.196 ms

Loss rate: 0.94%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-30 11:44:07

End at: 2018-01-30 11:44:37

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 79.039 ms

Loss rate: 0.93%

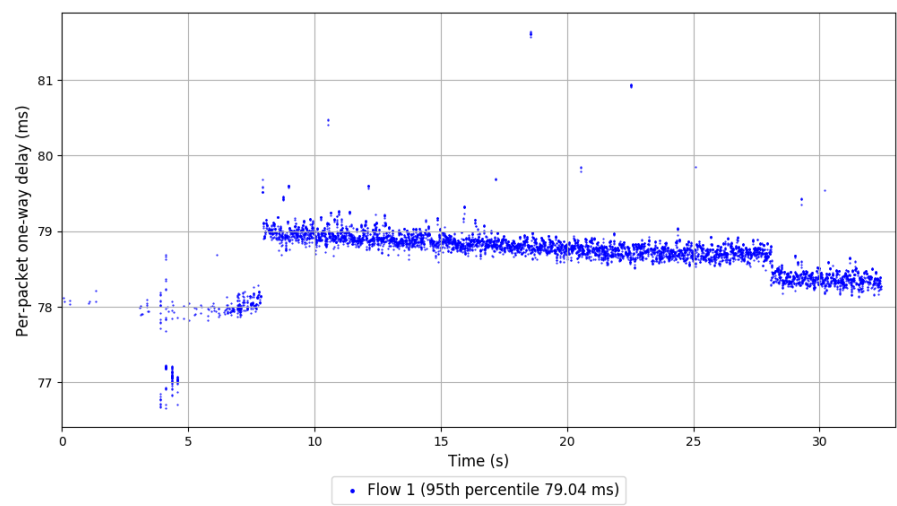
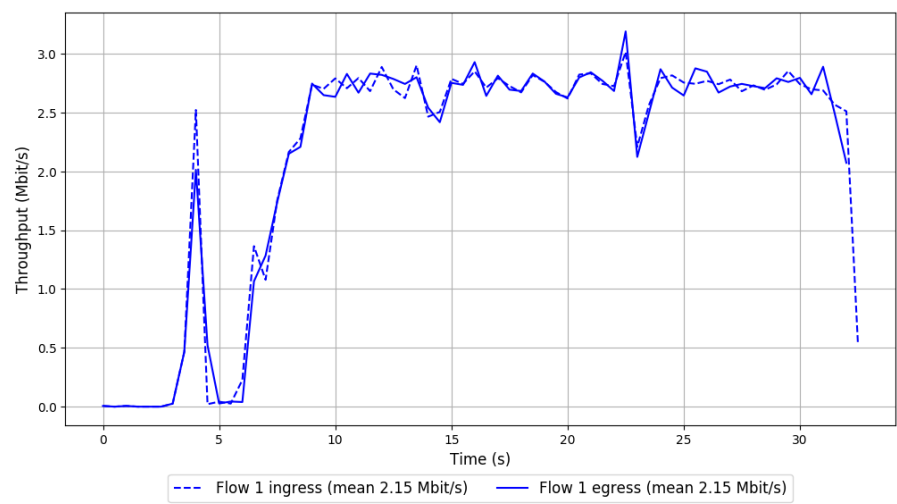
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 79.039 ms

Loss rate: 0.93%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-30 11:58:42

End at: 2018-01-30 11:59:12

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 65.377 ms

Loss rate: 0.76%

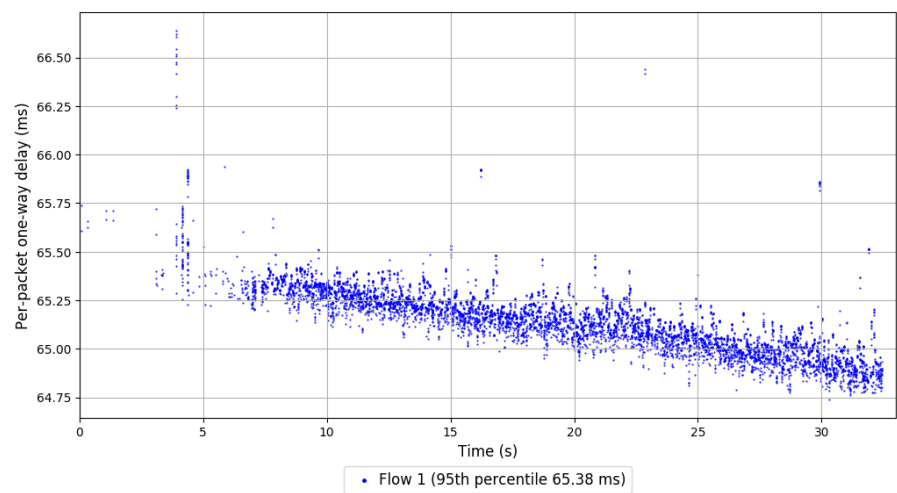
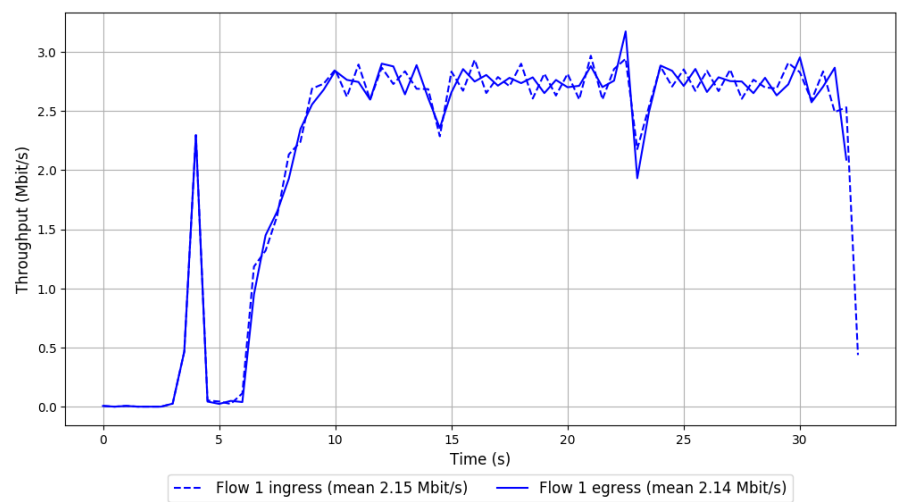
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 65.377 ms

Loss rate: 0.76%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-30 12:13:42

End at: 2018-01-30 12:14:12

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 75.609 ms

Loss rate: 0.78%

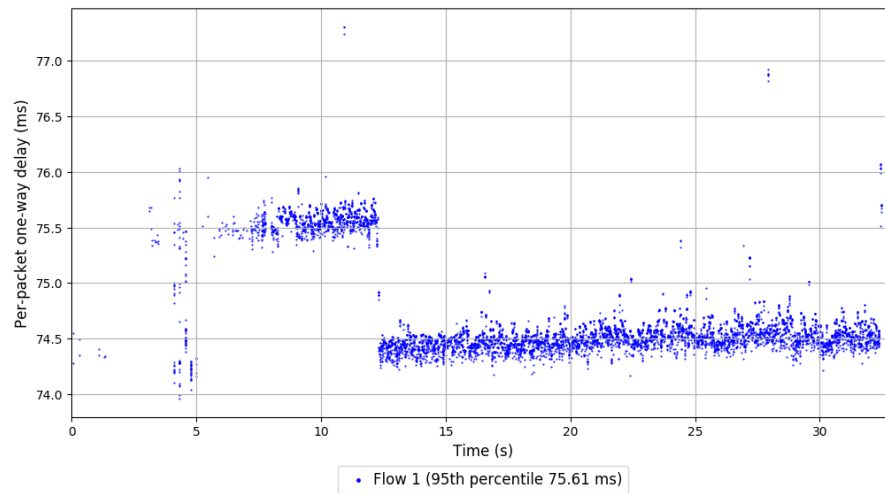
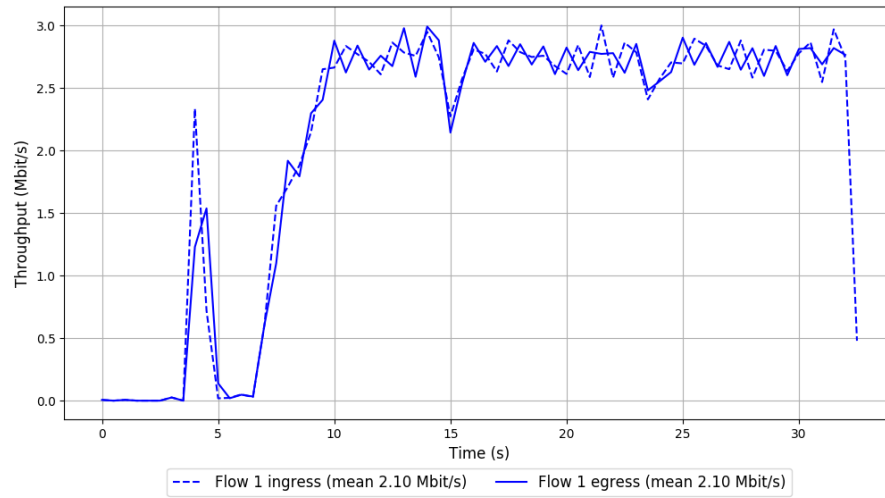
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 75.609 ms

Loss rate: 0.78%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-30 12:28:39

End at: 2018-01-30 12:29:09

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 69.503 ms

Loss rate: 0.92%

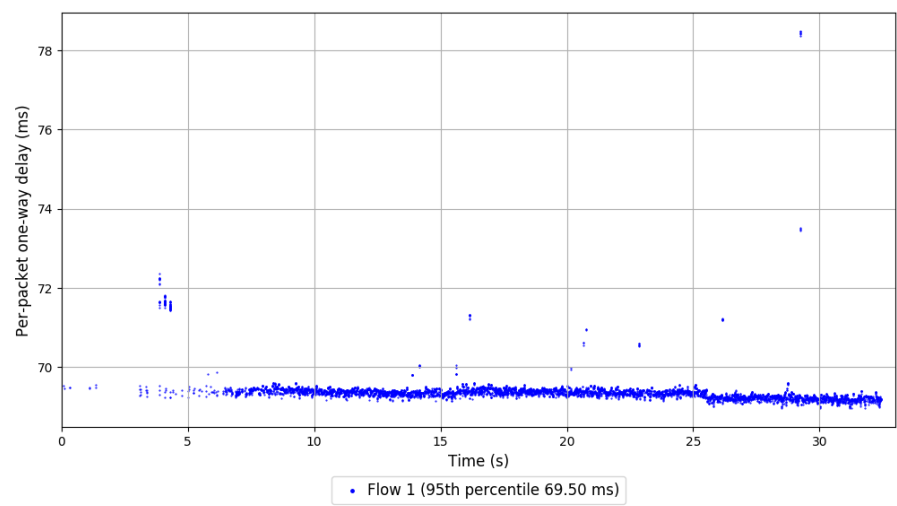
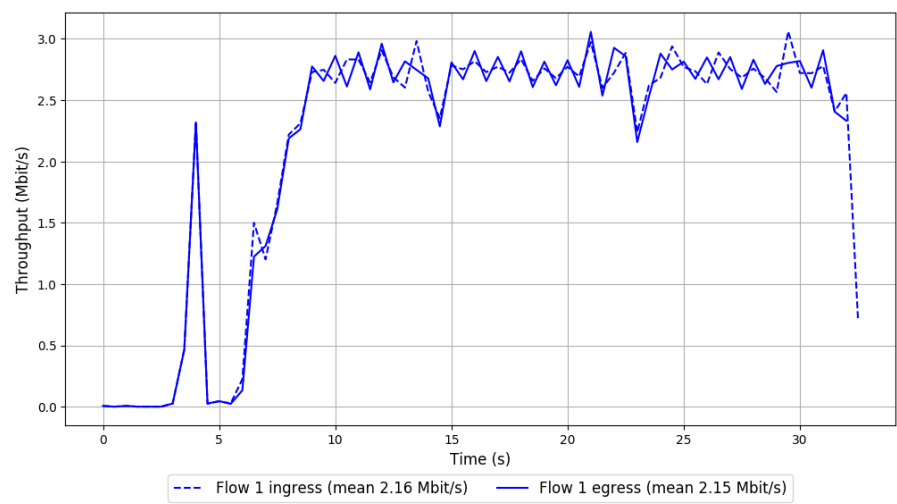
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 69.503 ms

Loss rate: 0.92%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-30 12:43:22

End at: 2018-01-30 12:43:52

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 75.566 ms

Loss rate: 0.76%

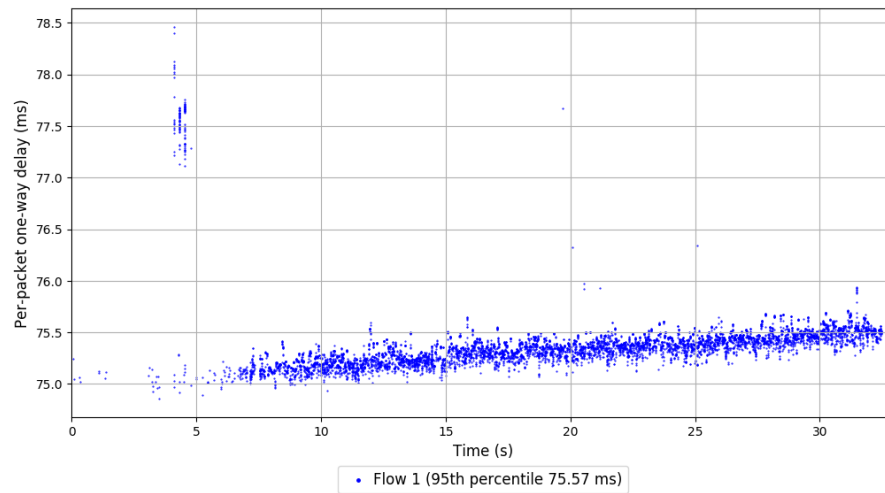
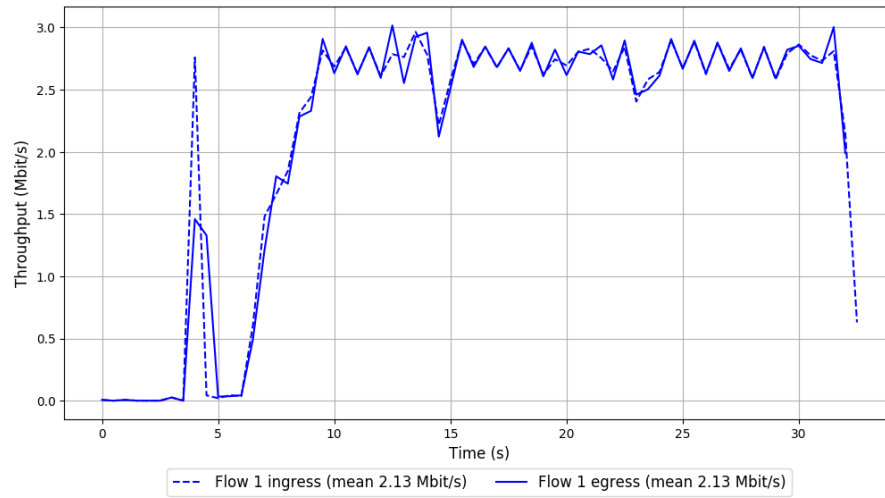
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 75.566 ms

Loss rate: 0.76%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-30 12:57:54

End at: 2018-01-30 12:58:24

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 92.567 ms

Loss rate: 0.88%

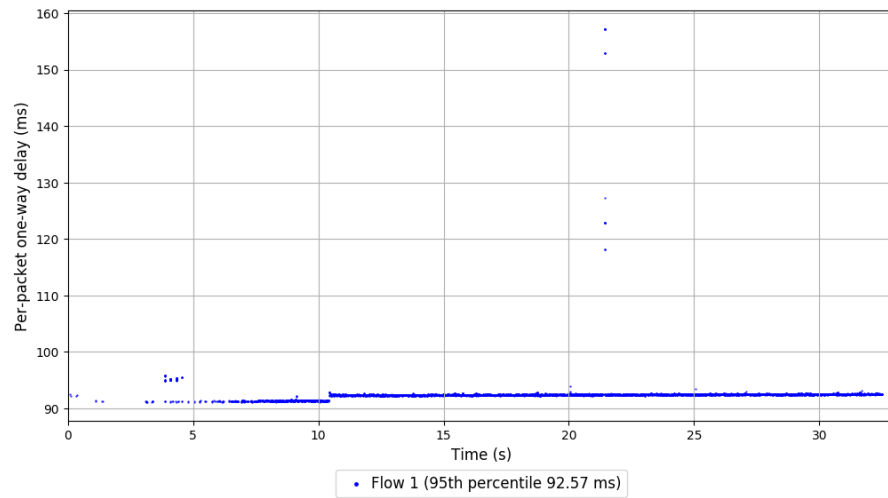
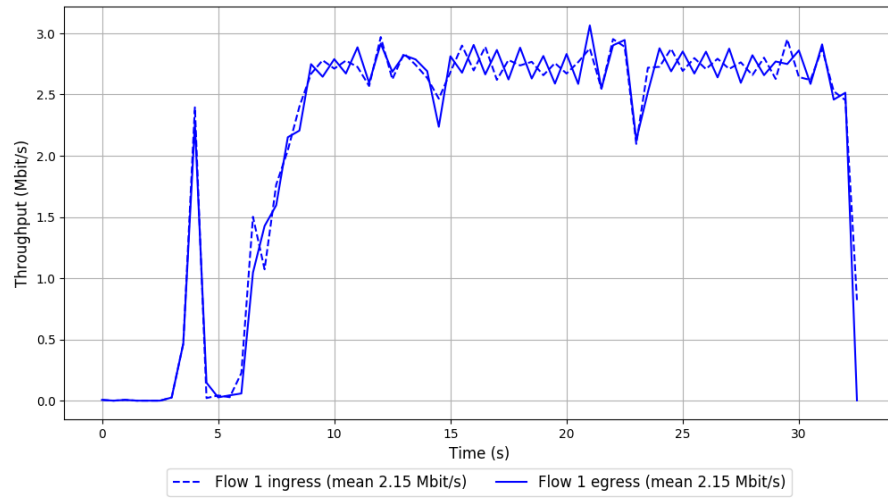
-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 92.567 ms

Loss rate: 0.88%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-30 13:12:34

End at: 2018-01-30 13:13:04

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 100.289 ms

Loss rate: 0.92%

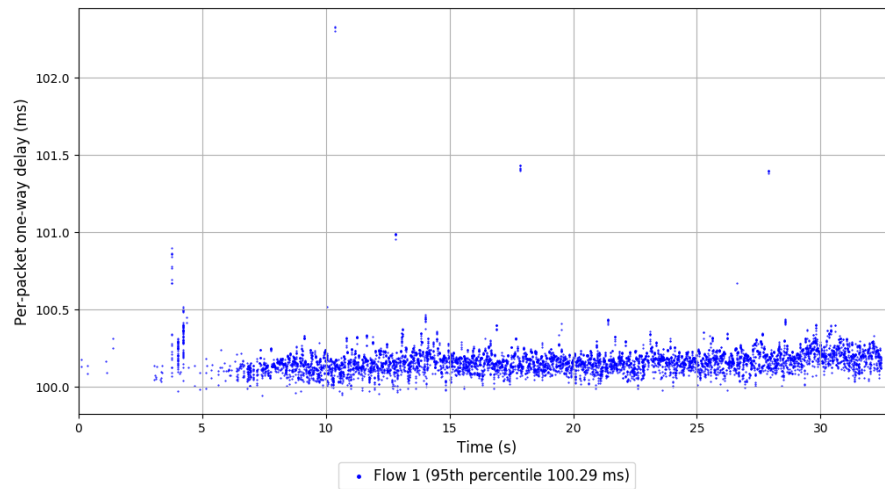
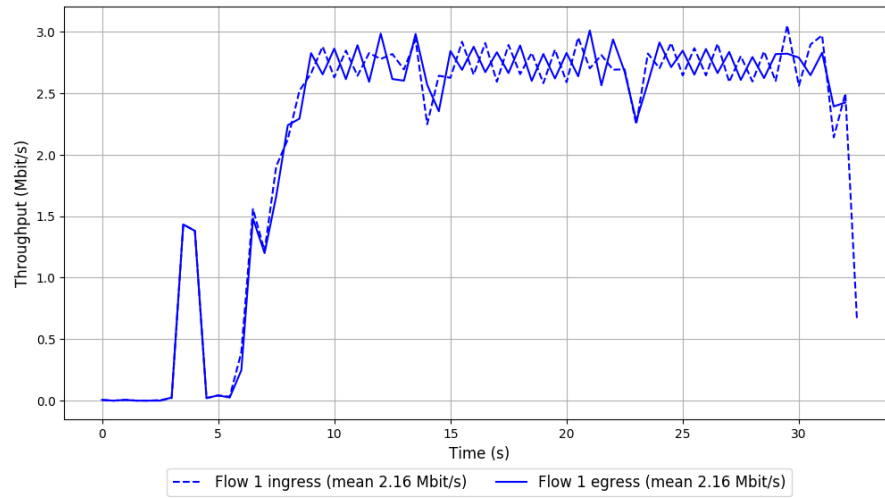
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 100.289 ms

Loss rate: 0.92%

Run 10: Report of WebRTC media — Data Link

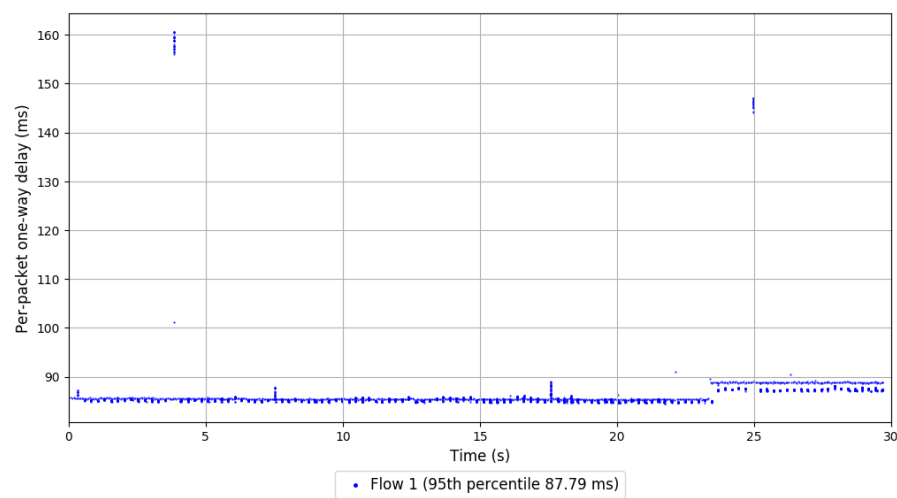
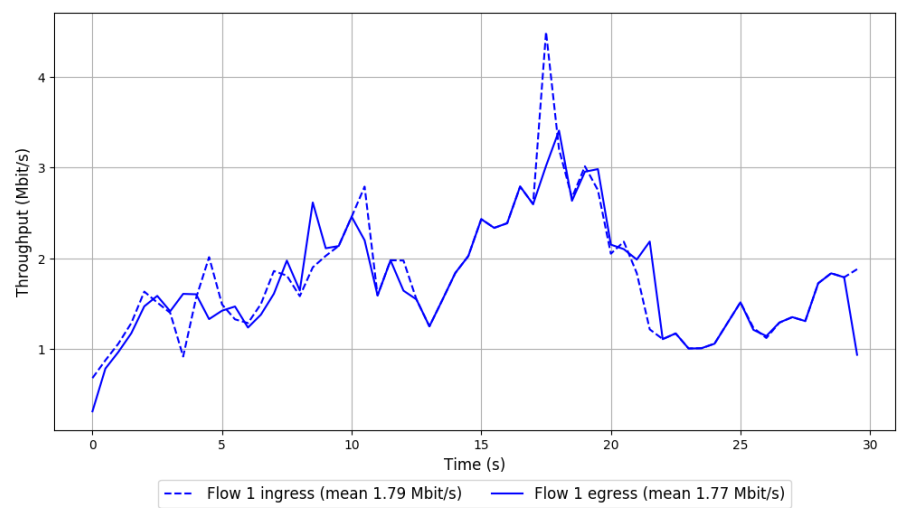


```
Run 1: Statistics of Sprout

Start at: 2018-01-30 11:10:18
End at: 2018-01-30 11:10:49

# Below is generated by plot.py at 2018-01-30 16:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 87.789 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 1.77 Mbit/s
95th percentile per-packet one-way delay: 87.789 ms
Loss rate: 1.75%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-30 11:24:54

End at: 2018-01-30 11:25:24

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 82.161 ms

Loss rate: 1.29%

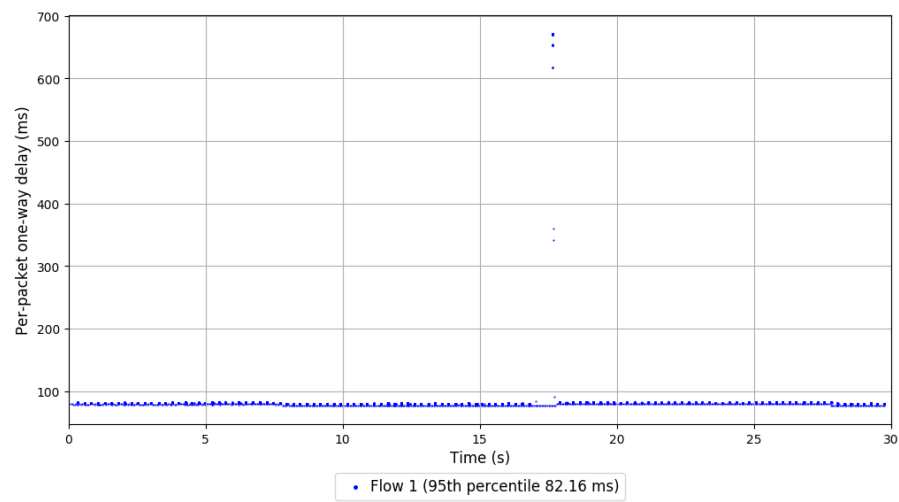
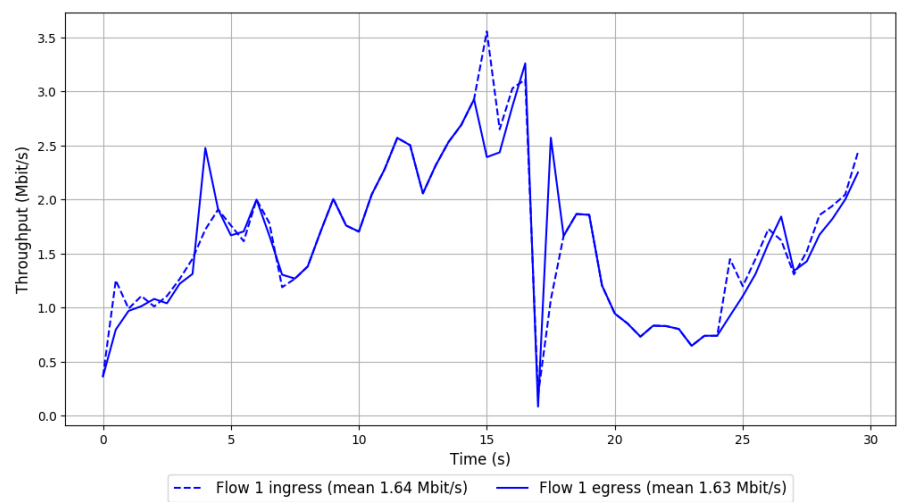
-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 82.161 ms

Loss rate: 1.29%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-30 11:39:32

End at: 2018-01-30 11:40:02

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 85.438 ms

Loss rate: 0.74%

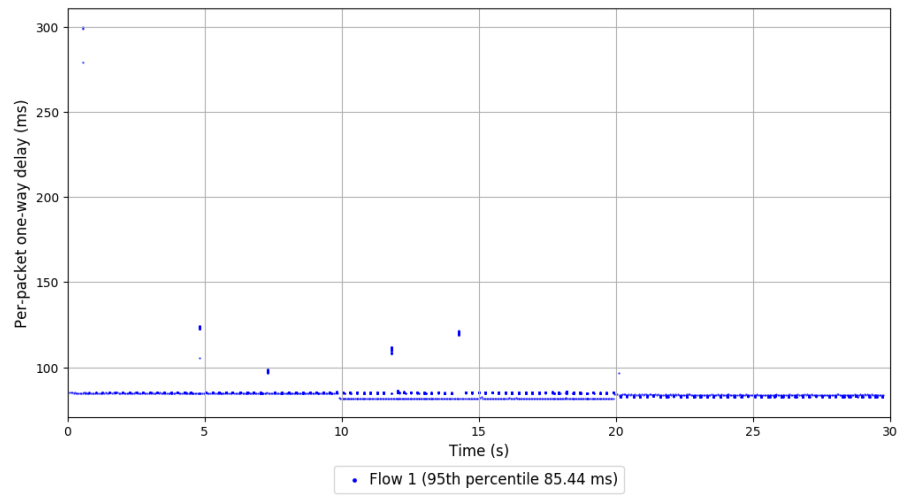
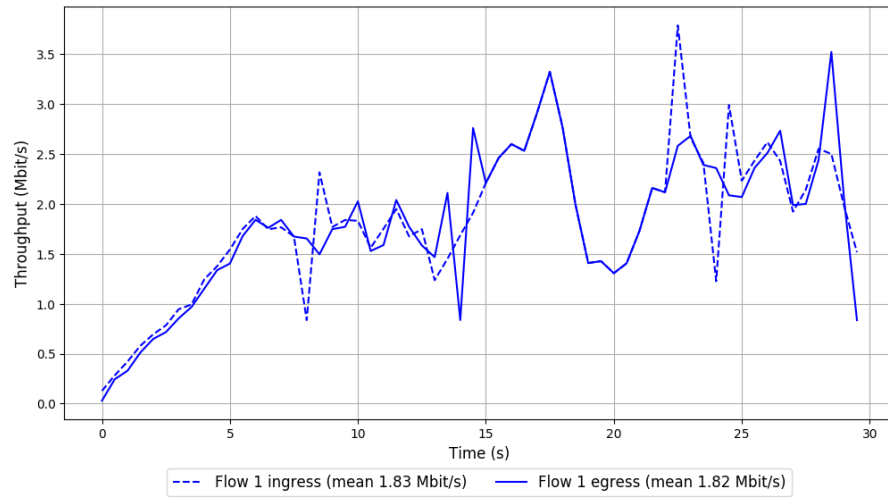
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 85.438 ms

Loss rate: 0.74%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-30 11:54:08

End at: 2018-01-30 11:54:38

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 71.025 ms

Loss rate: 1.27%

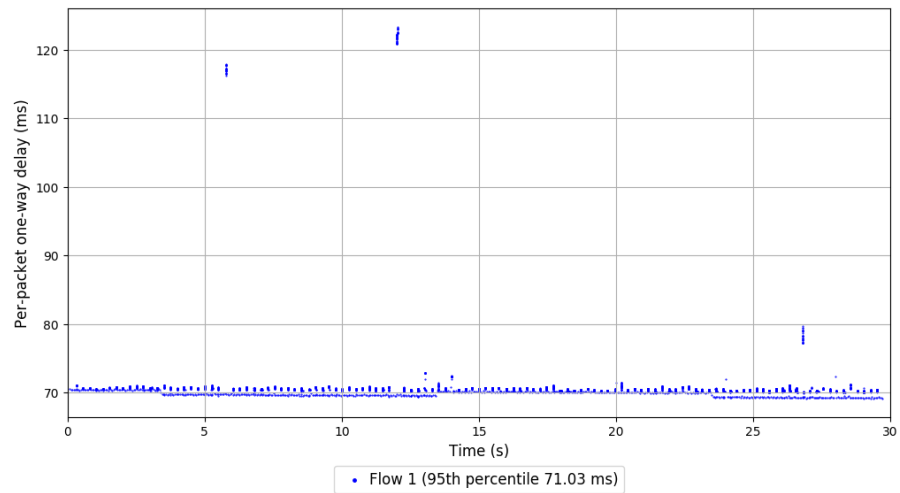
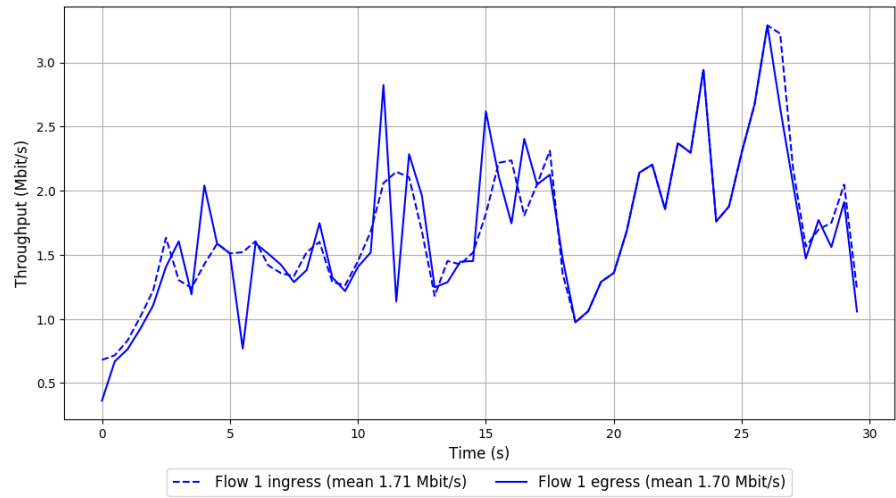
-- Flow 1:

Average throughput: 1.70 Mbit/s

95th percentile per-packet one-way delay: 71.025 ms

Loss rate: 1.27%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-30 12:09:11

End at: 2018-01-30 12:09:41

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 74.155 ms

Loss rate: 1.78%

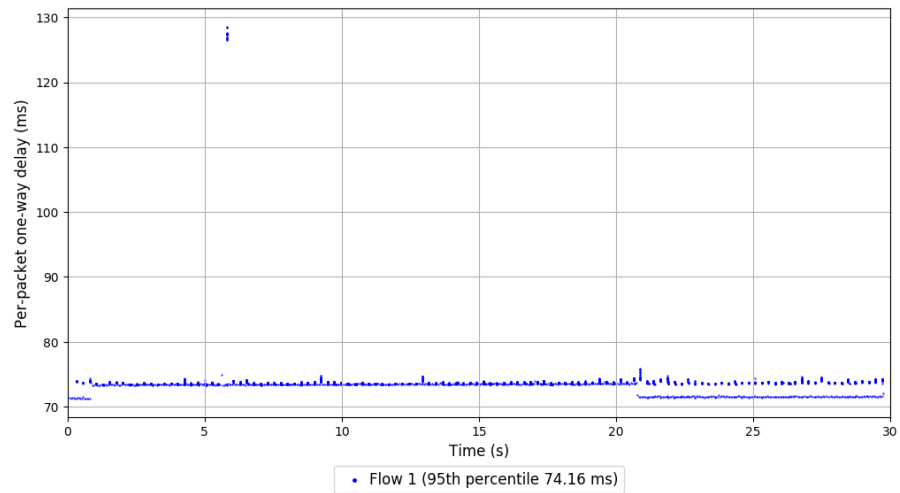
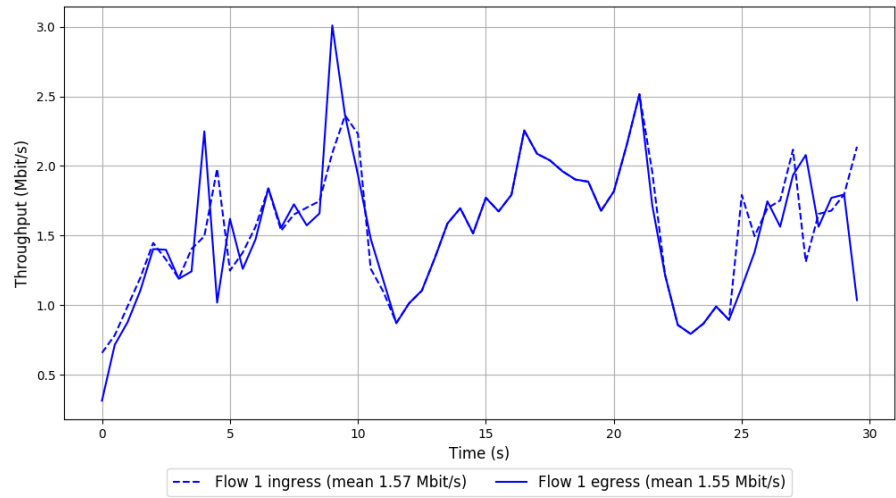
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 74.155 ms

Loss rate: 1.78%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-30 12:24:11

End at: 2018-01-30 12:24:41

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 75.247 ms

Loss rate: 1.24%

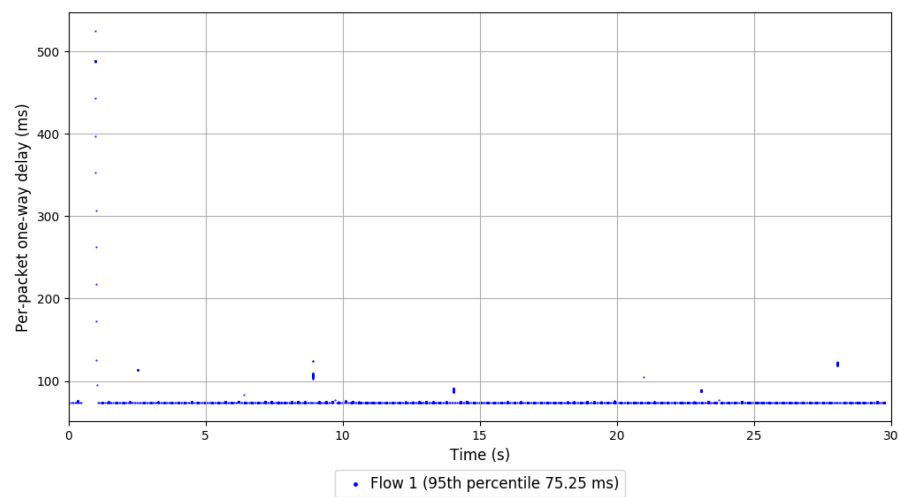
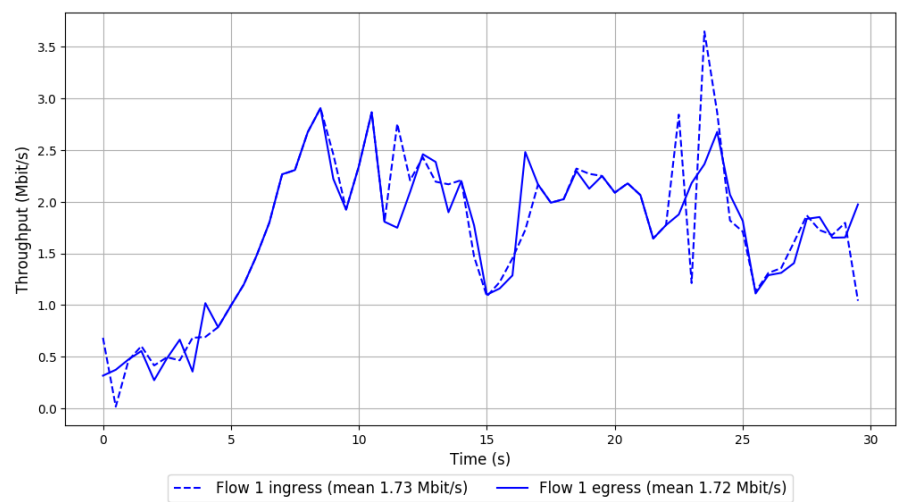
-- Flow 1:

Average throughput: 1.72 Mbit/s

95th percentile per-packet one-way delay: 75.247 ms

Loss rate: 1.24%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-30 12:38:48

End at: 2018-01-30 12:39:18

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 73.194 ms

Loss rate: 1.48%

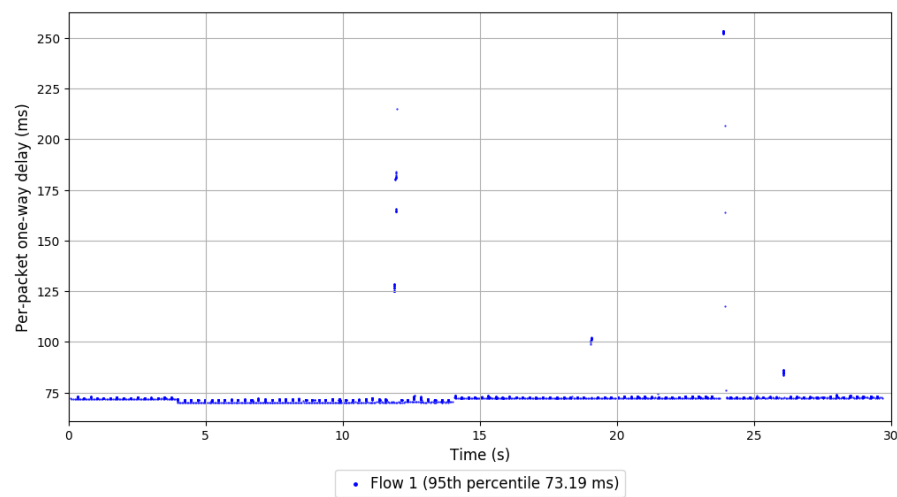
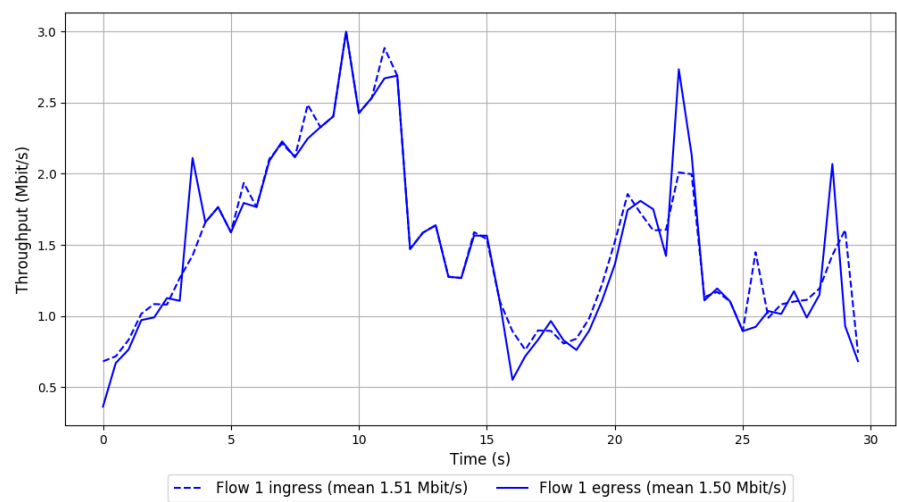
-- Flow 1:

Average throughput: 1.50 Mbit/s

95th percentile per-packet one-way delay: 73.194 ms

Loss rate: 1.48%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-30 12:53:30

End at: 2018-01-30 12:54:00

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 93.684 ms

Loss rate: 0.15%

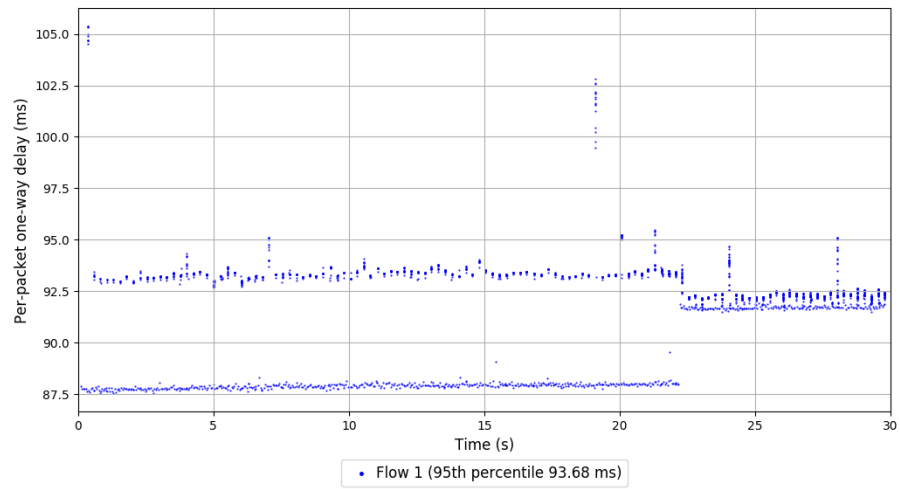
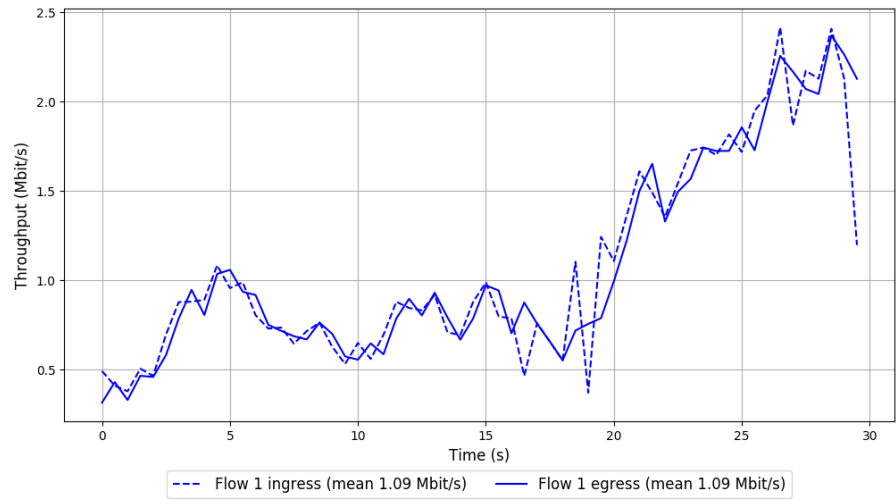
-- Flow 1:

Average throughput: 1.09 Mbit/s

95th percentile per-packet one-way delay: 93.684 ms

Loss rate: 0.15%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-30 13:08:04

End at: 2018-01-30 13:08:34

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 101.013 ms

Loss rate: 1.26%

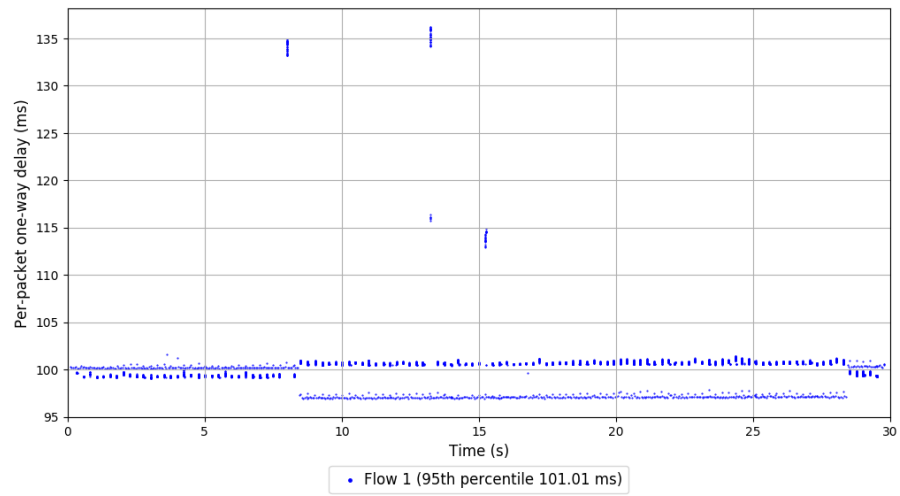
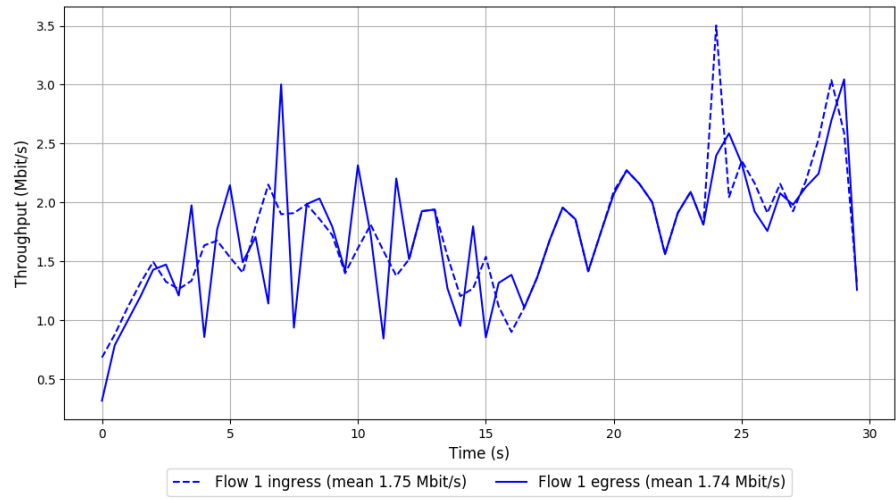
-- Flow 1:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 101.013 ms

Loss rate: 1.26%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-30 13:22:42

End at: 2018-01-30 13:23:12

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 100.100 ms

Loss rate: 1.96%

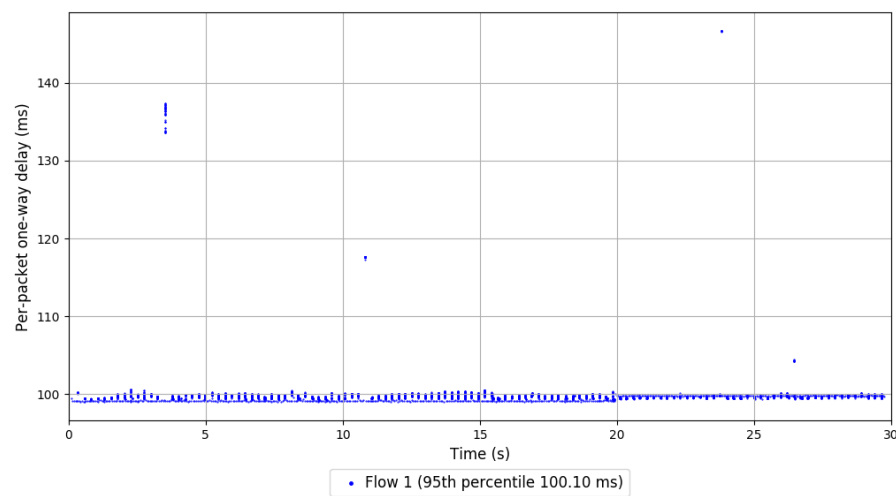
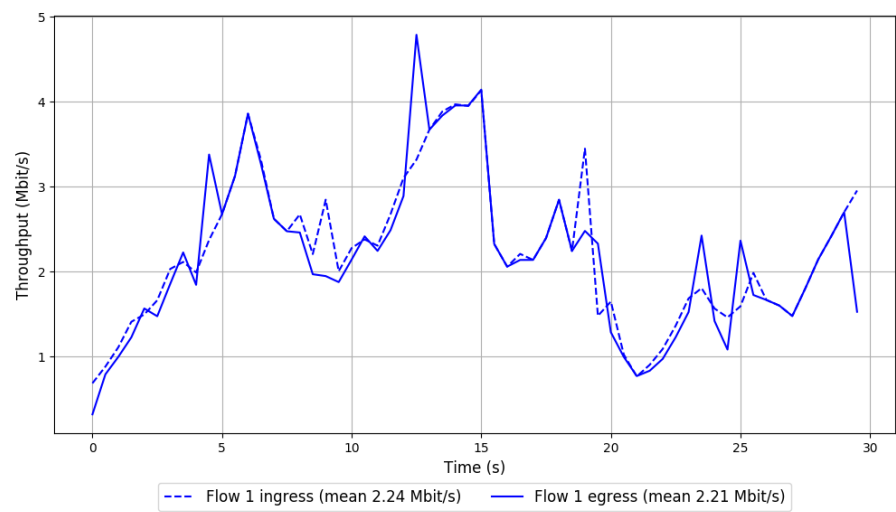
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 100.100 ms

Loss rate: 1.96%

Run 10: Report of Sprout — Data Link

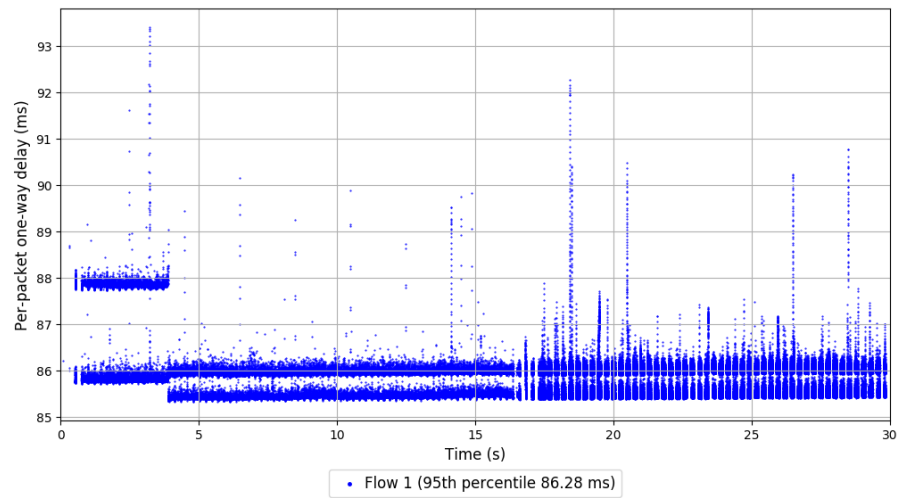
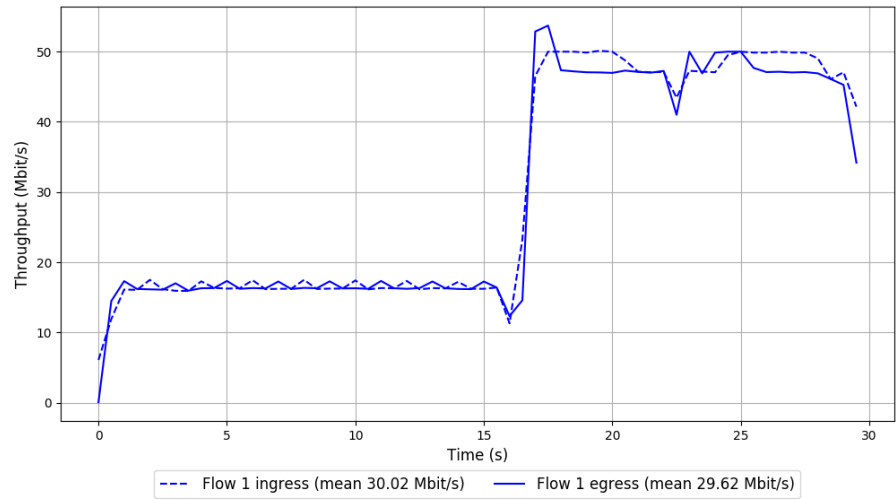


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-30 11:06:08
End at: 2018-01-30 11:06:38

# Below is generated by plot.py at 2018-01-30 16:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.62 Mbit/s
95th percentile per-packet one-way delay: 86.284 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 29.62 Mbit/s
95th percentile per-packet one-way delay: 86.284 ms
Loss rate: 2.09%
```


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

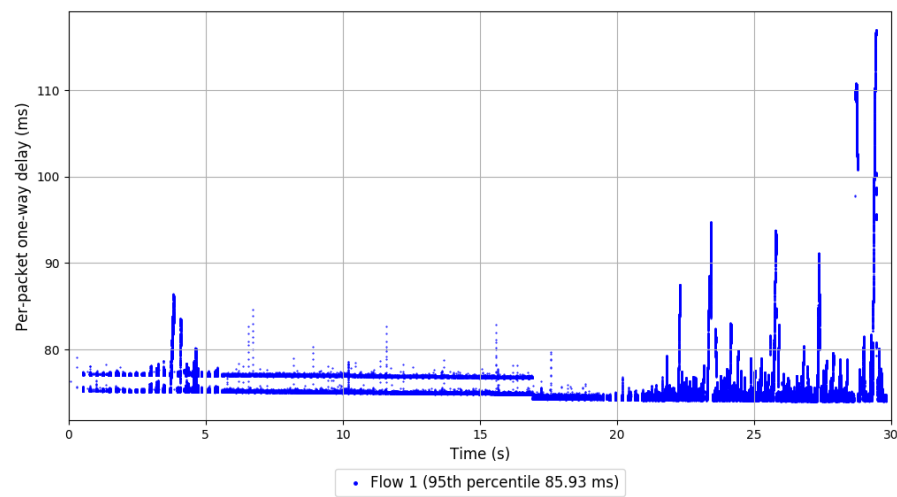
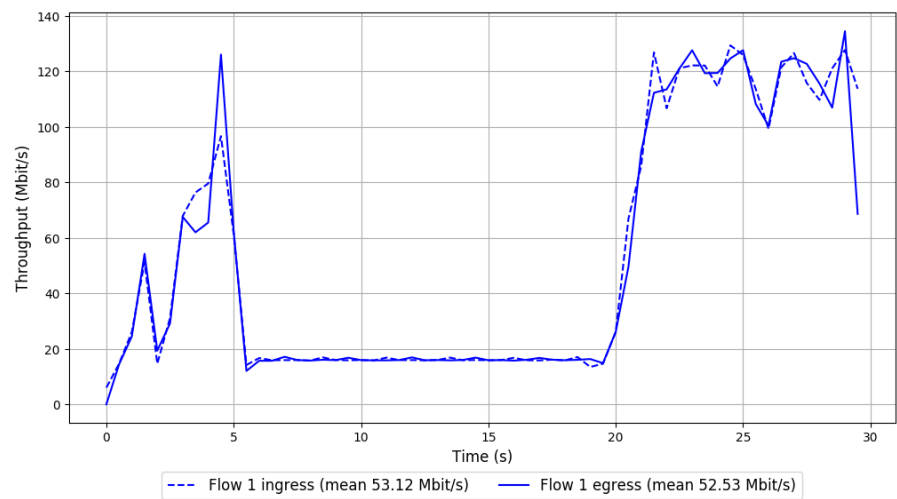


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-30 11:20:35
End at: 2018-01-30 11:21:05

# Below is generated by plot.py at 2018-01-30 16:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.53 Mbit/s
95th percentile per-packet one-way delay: 85.927 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 52.53 Mbit/s
95th percentile per-packet one-way delay: 85.927 ms
Loss rate: 1.86%
```

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

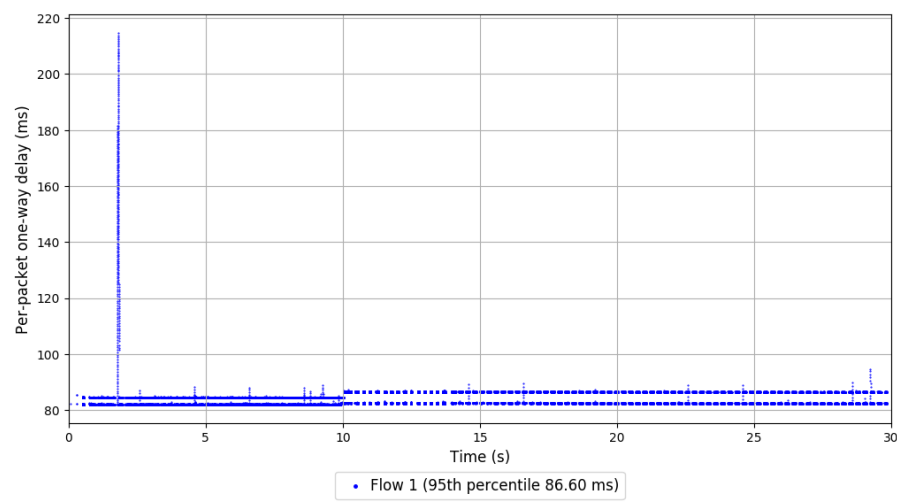
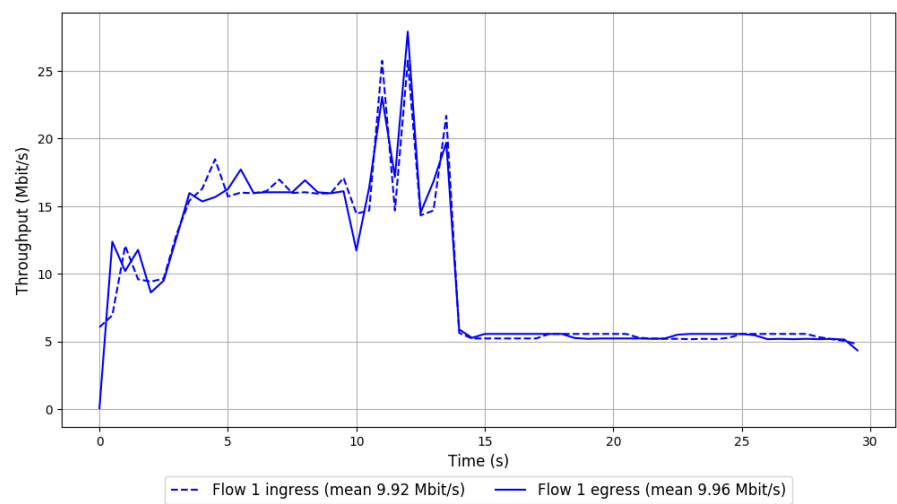


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-30 11:35:12
End at: 2018-01-30 11:35:42

# Below is generated by plot.py at 2018-01-30 16:16:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.96 Mbit/s
95th percentile per-packet one-way delay: 86.603 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 9.96 Mbit/s
95th percentile per-packet one-way delay: 86.603 ms
Loss rate: 0.35%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-30 11:49:48

End at: 2018-01-30 11:50:18

Below is generated by plot.py at 2018-01-30 16:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.08 Mbit/s

95th percentile per-packet one-way delay: 74.481 ms

Loss rate: 2.00%

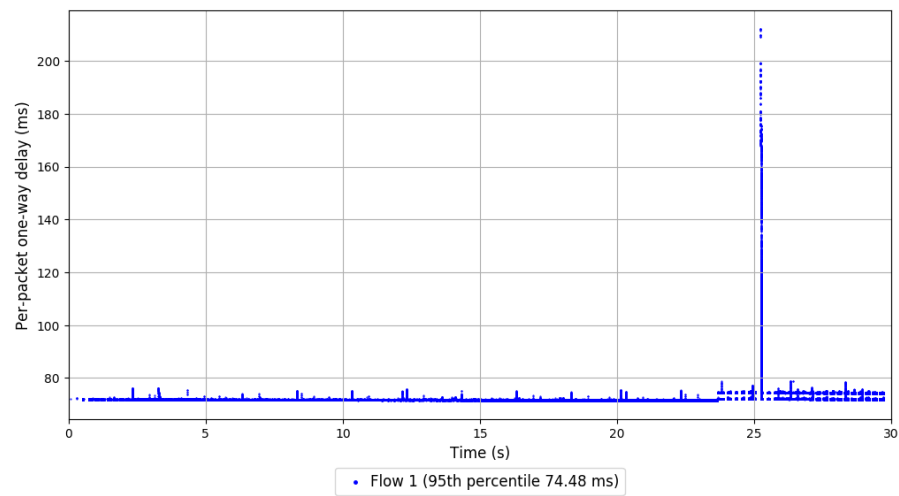
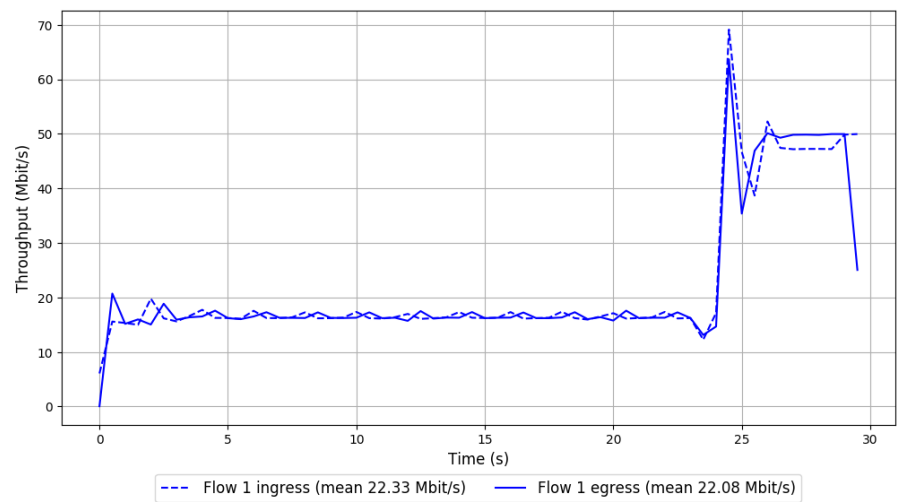
-- Flow 1:

Average throughput: 22.08 Mbit/s

95th percentile per-packet one-way delay: 74.481 ms

Loss rate: 2.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-01-30 12:04:26

End at: 2018-01-30 12:04:56

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.44 Mbit/s

95th percentile per-packet one-way delay: 70.764 ms

Loss rate: 0.33%

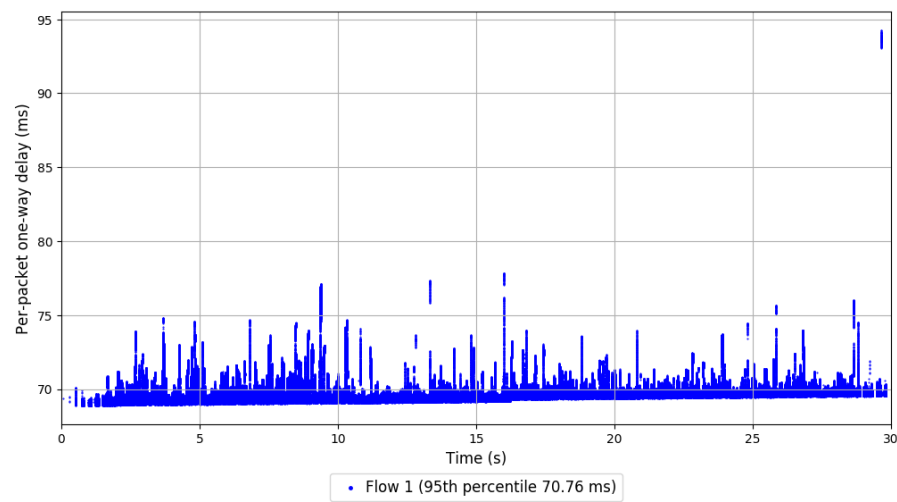
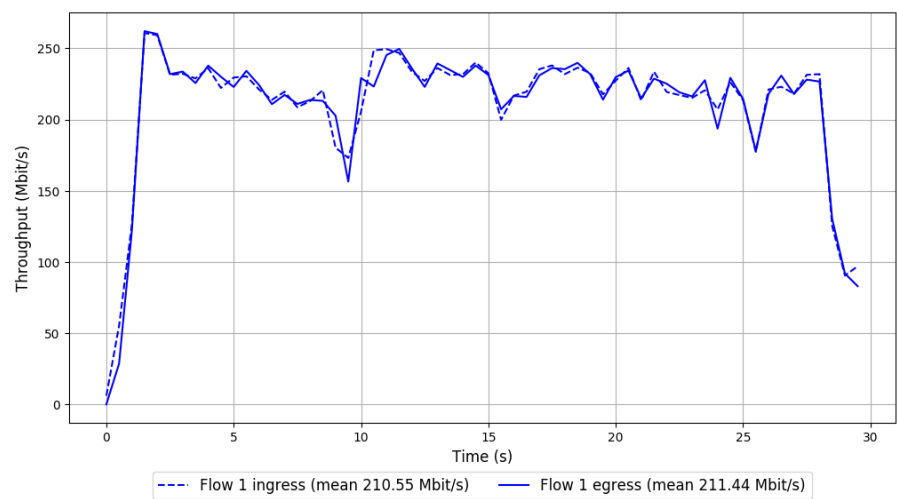
-- Flow 1:

Average throughput: 211.44 Mbit/s

95th percentile per-packet one-way delay: 70.764 ms

Loss rate: 0.33%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-30 12:19:42

End at: 2018-01-30 12:20:12

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.85 Mbit/s

95th percentile per-packet one-way delay: 81.252 ms

Loss rate: 0.33%

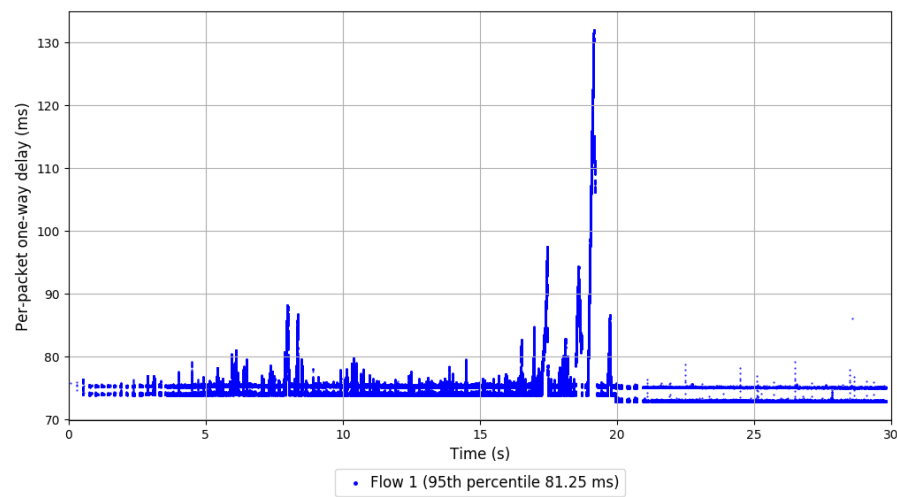
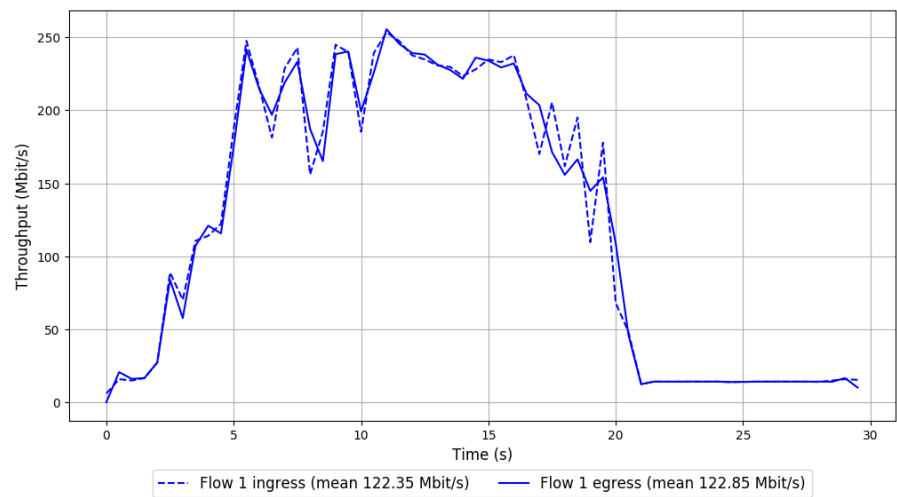
-- Flow 1:

Average throughput: 122.85 Mbit/s

95th percentile per-packet one-way delay: 81.252 ms

Loss rate: 0.33%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-30 12:34:25

End at: 2018-01-30 12:34:55

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.11 Mbit/s

95th percentile per-packet one-way delay: 67.510 ms

Loss rate: 0.06%

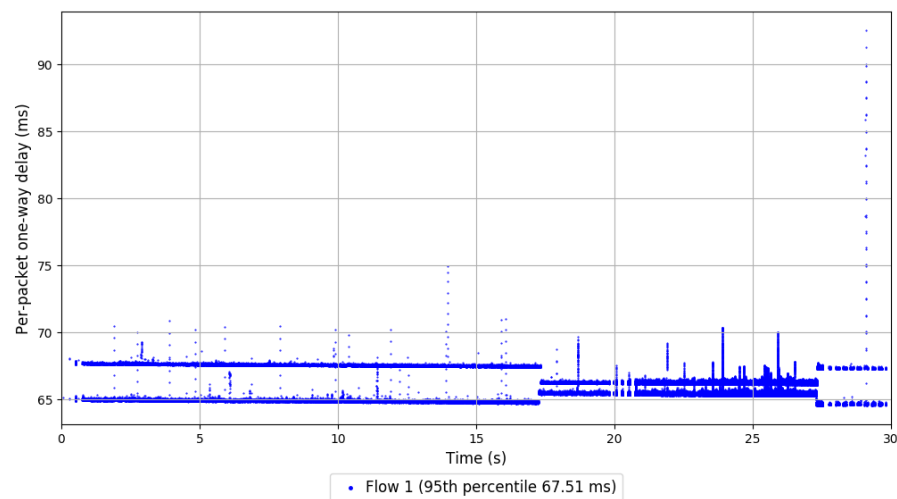
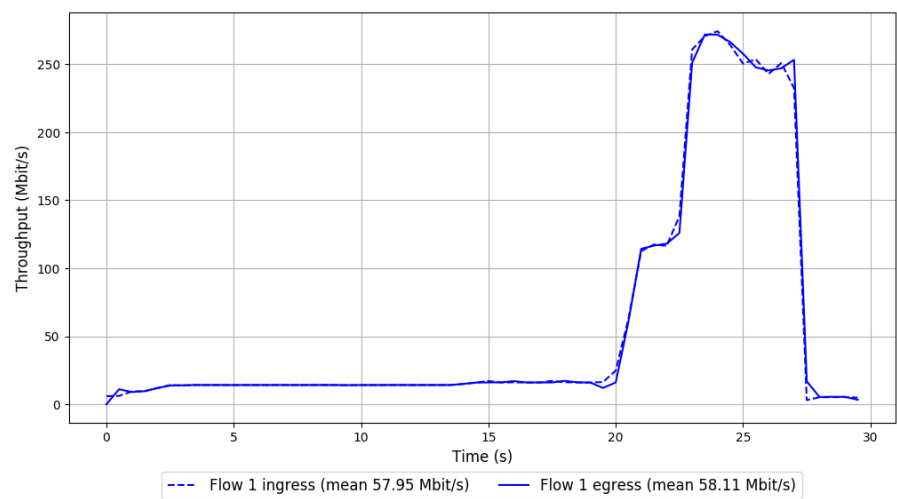
-- Flow 1:

Average throughput: 58.11 Mbit/s

95th percentile per-packet one-way delay: 67.510 ms

Loss rate: 0.06%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-30 12:49:04

End at: 2018-01-30 12:49:34

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.90 Mbit/s

95th percentile per-packet one-way delay: 88.035 ms

Loss rate: 1.84%

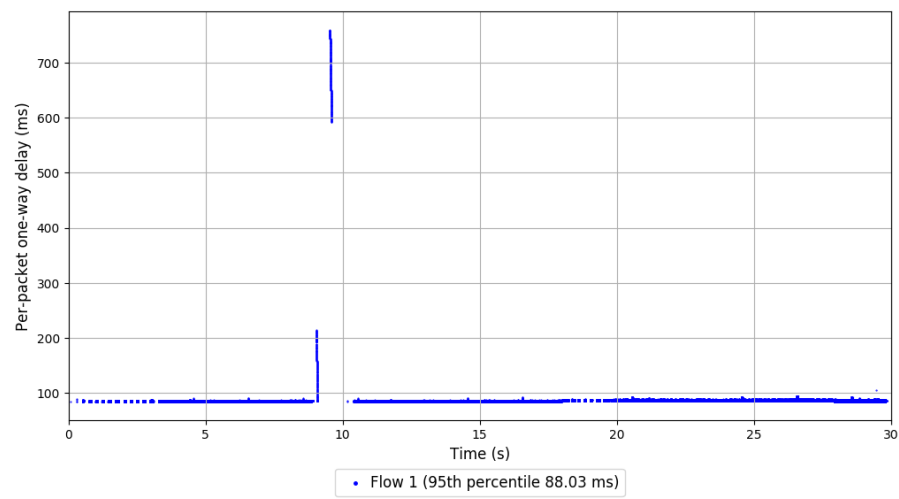
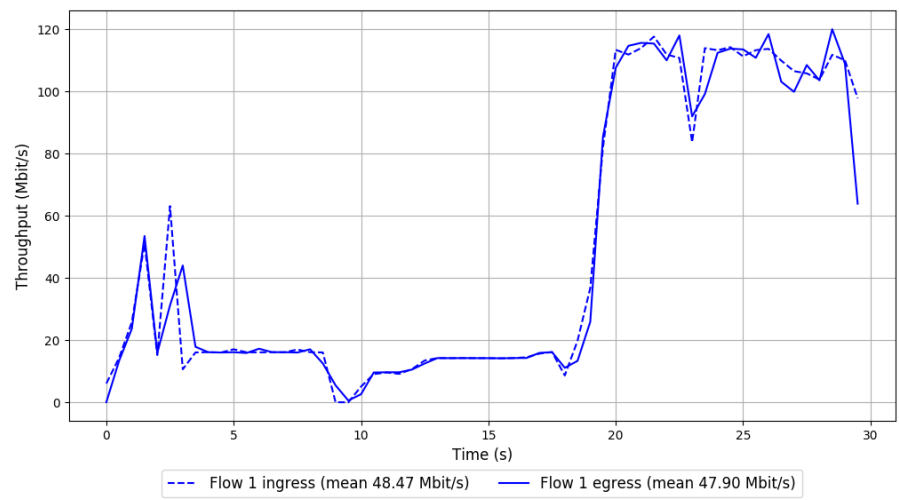
-- Flow 1:

Average throughput: 47.90 Mbit/s

95th percentile per-packet one-way delay: 88.035 ms

Loss rate: 1.84%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-30 13:03:47

End at: 2018-01-30 13:04:17

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.82 Mbit/s

95th percentile per-packet one-way delay: 99.117 ms

Loss rate: 0.19%

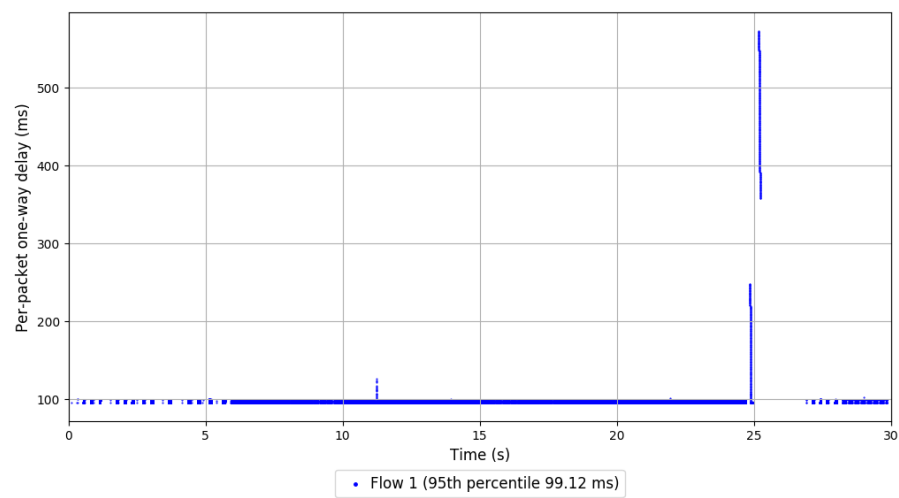
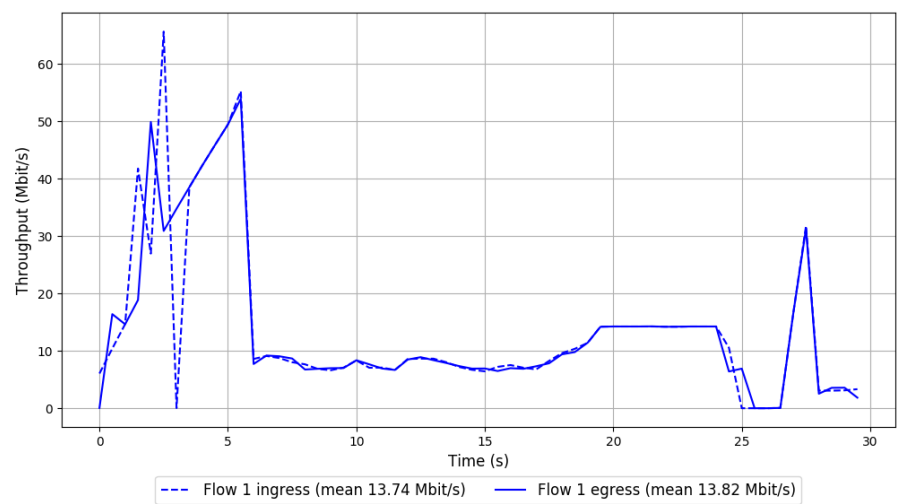
-- Flow 1:

Average throughput: 13.82 Mbit/s

95th percentile per-packet one-way delay: 99.117 ms

Loss rate: 0.19%

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

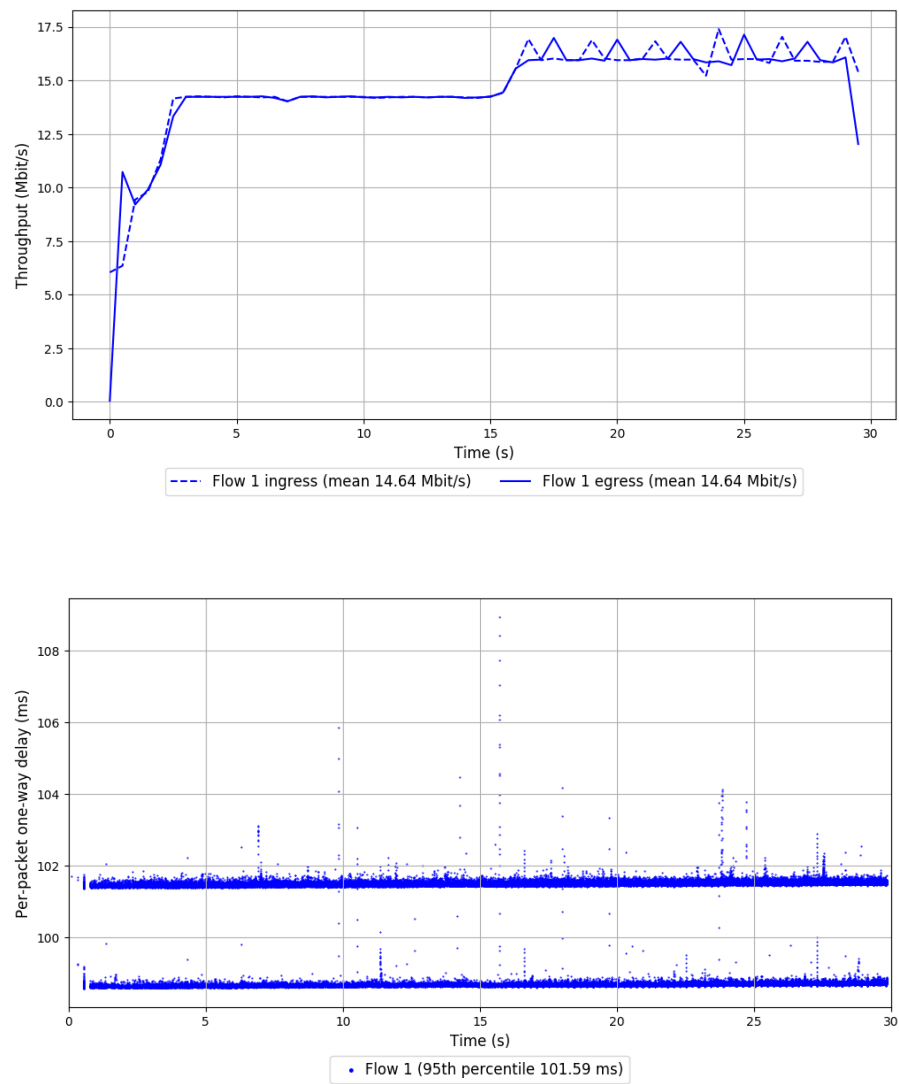


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-30 13:18:21
End at: 2018-01-30 13:18:51

# Below is generated by plot.py at 2018-01-30 16:16:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 101.594 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 101.594 ms
Loss rate: 0.81%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-30 10:58:01

End at: 2018-01-30 10:58:31

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.38 Mbit/s

95th percentile per-packet one-way delay: 90.135 ms

Loss rate: 1.34%

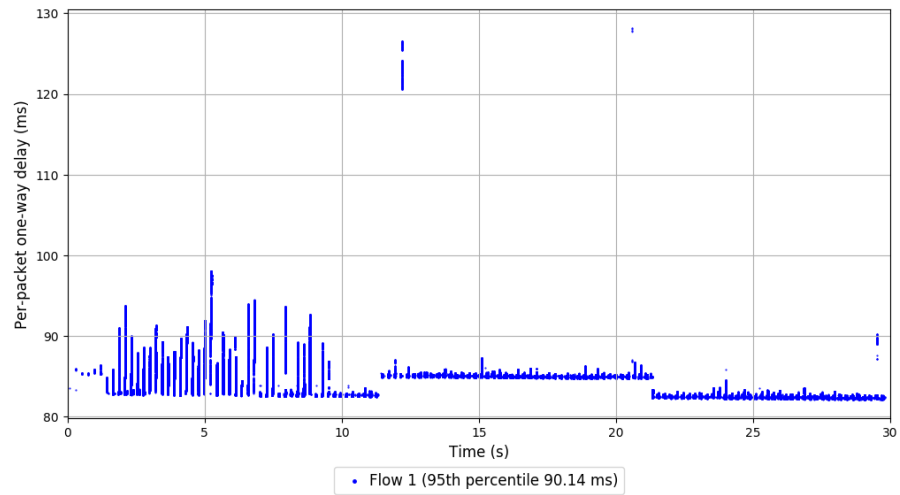
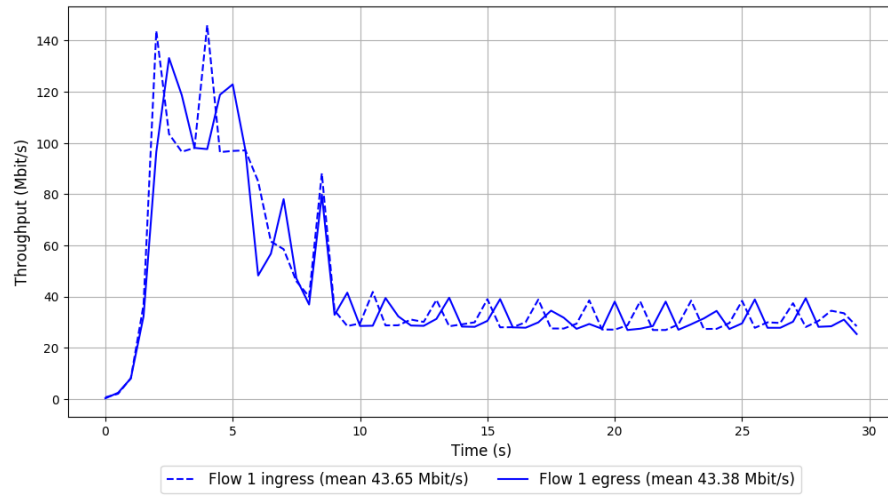
-- Flow 1:

Average throughput: 43.38 Mbit/s

95th percentile per-packet one-way delay: 90.135 ms

Loss rate: 1.34%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-30 11:12:40

End at: 2018-01-30 11:13:10

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.11 Mbit/s

95th percentile per-packet one-way delay: 89.915 ms

Loss rate: 3.34%

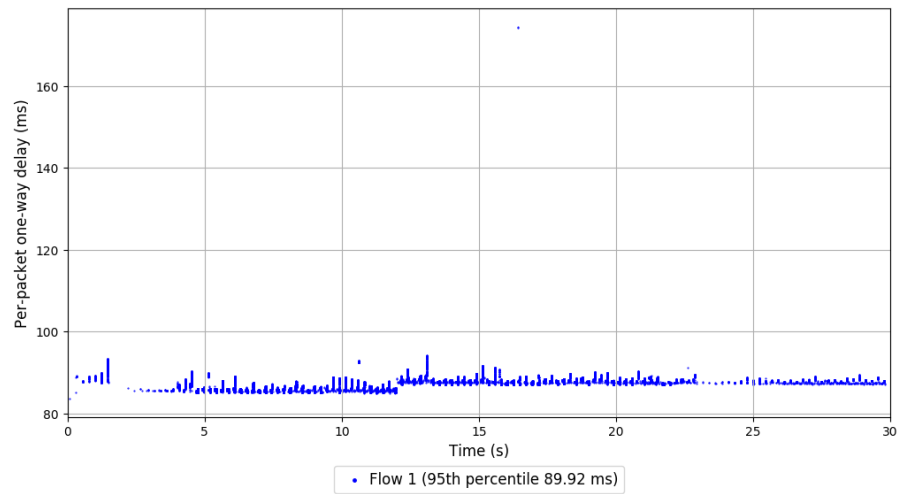
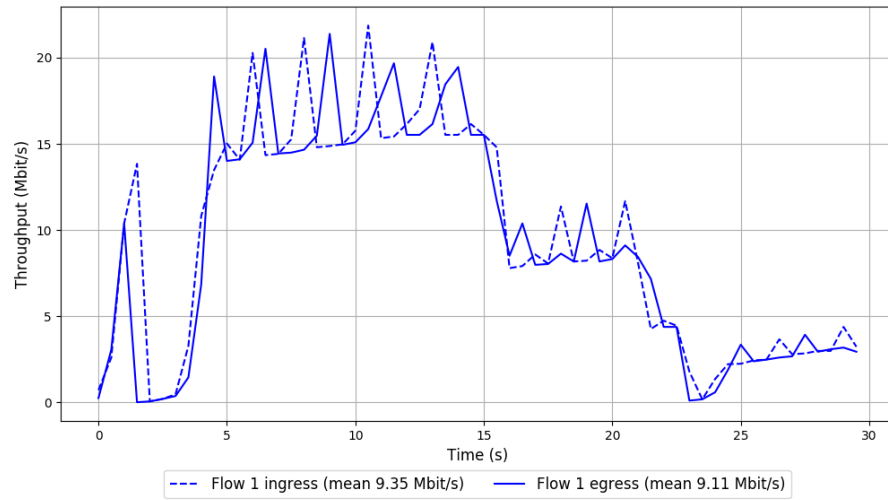
-- Flow 1:

Average throughput: 9.11 Mbit/s

95th percentile per-packet one-way delay: 89.915 ms

Loss rate: 3.34%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-30 11:27:19

End at: 2018-01-30 11:27:49

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 83.934 ms

Loss rate: 1.00%

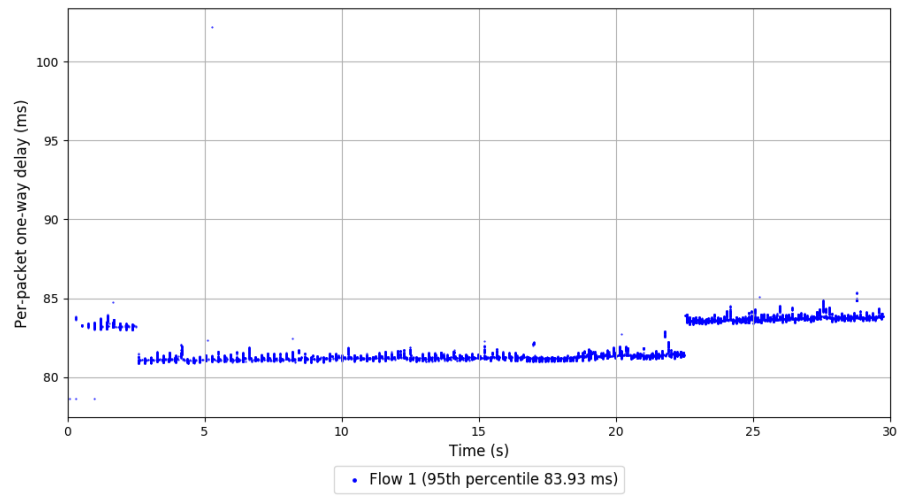
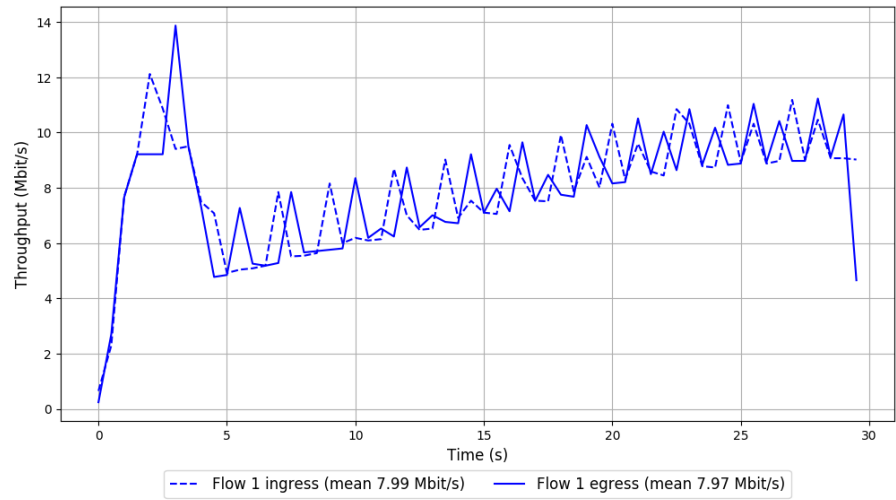
-- Flow 1:

Average throughput: 7.97 Mbit/s

95th percentile per-packet one-way delay: 83.934 ms

Loss rate: 1.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-30 11:41:52

End at: 2018-01-30 11:42:22

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 88.635 ms

Loss rate: 0.77%

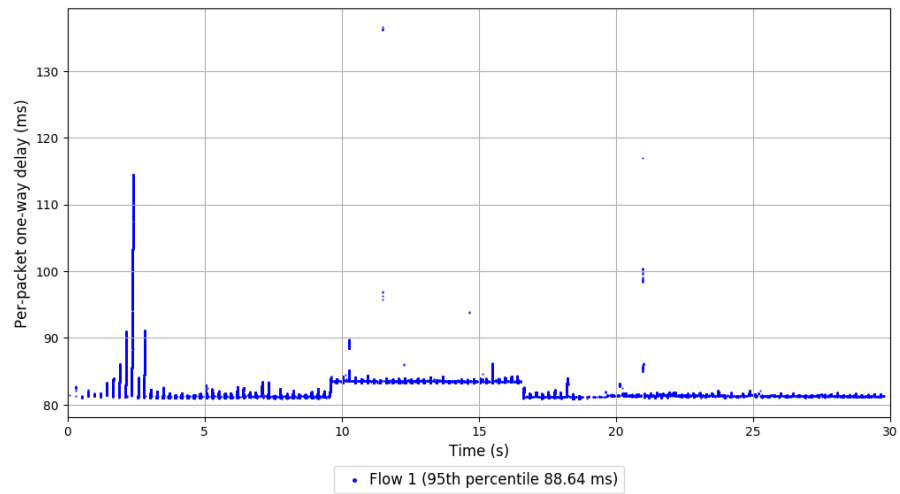
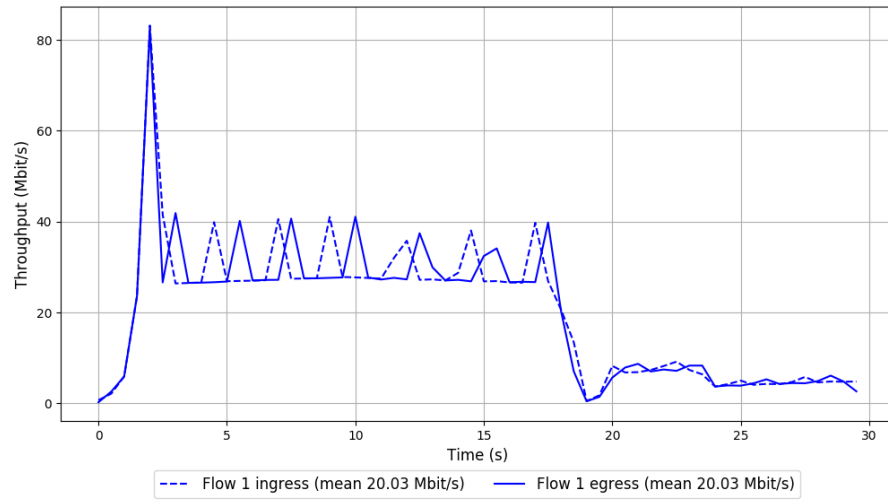
-- Flow 1:

Average throughput: 20.03 Mbit/s

95th percentile per-packet one-way delay: 88.635 ms

Loss rate: 0.77%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-30 11:56:31

End at: 2018-01-30 11:57:01

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 69.117 ms

Loss rate: 3.05%

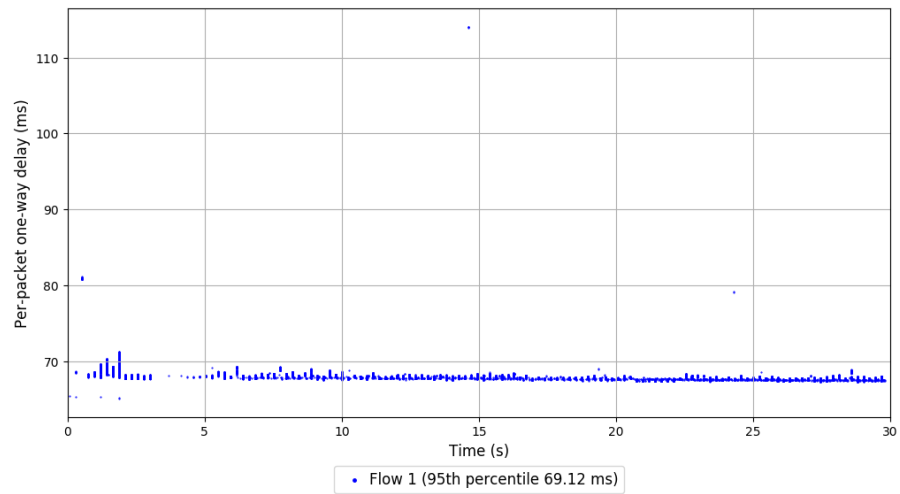
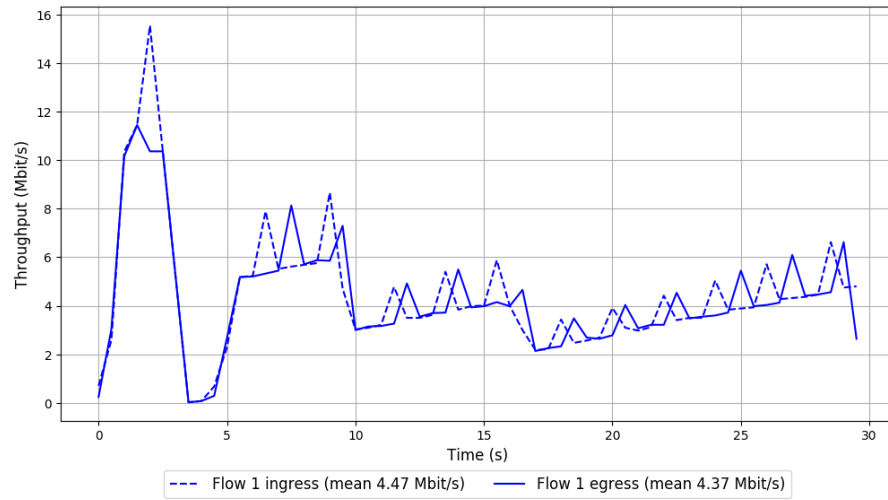
-- Flow 1:

Average throughput: 4.37 Mbit/s

95th percentile per-packet one-way delay: 69.117 ms

Loss rate: 3.05%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-30 12:11:31

End at: 2018-01-30 12:12:01

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.61 Mbit/s

95th percentile per-packet one-way delay: 77.429 ms

Loss rate: 0.37%

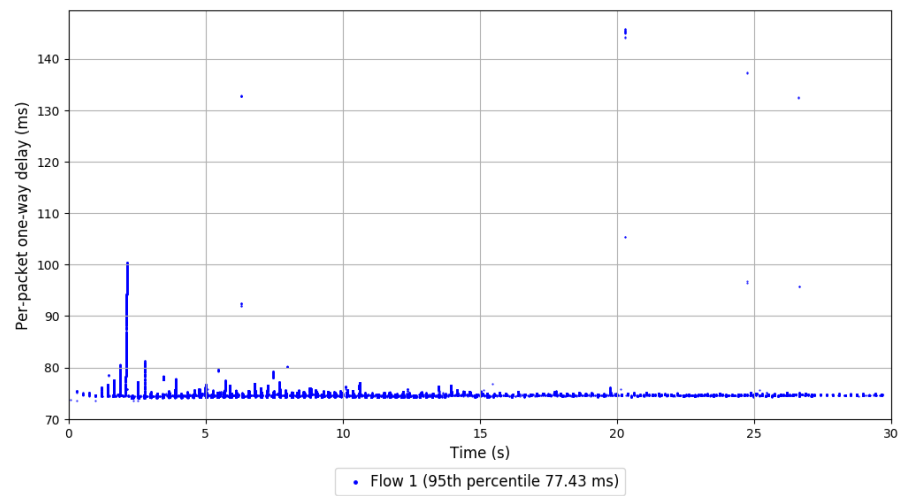
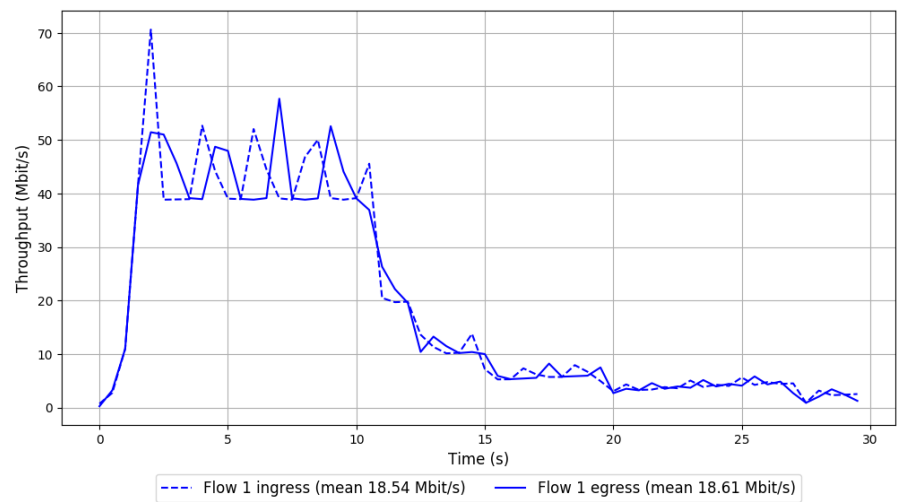
-- Flow 1:

Average throughput: 18.61 Mbit/s

95th percentile per-packet one-way delay: 77.429 ms

Loss rate: 0.37%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-30 12:26:27

End at: 2018-01-30 12:26:58

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 73.035 ms

Loss rate: 1.38%

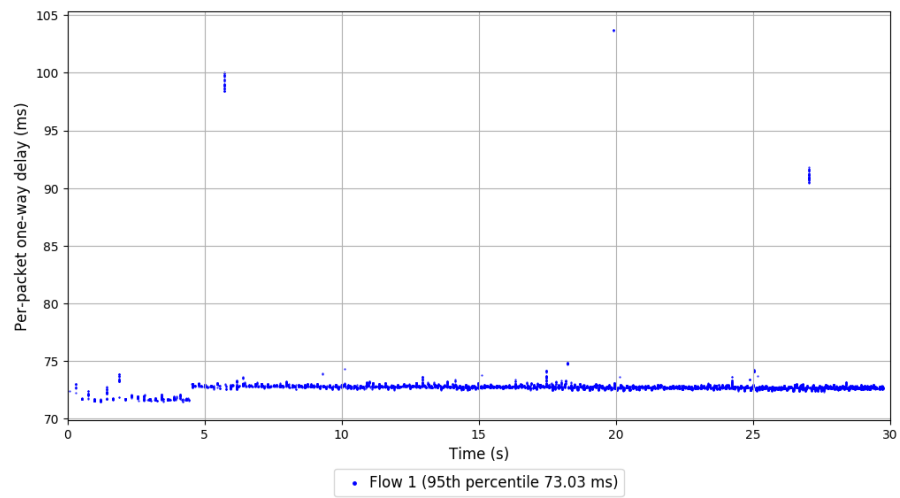
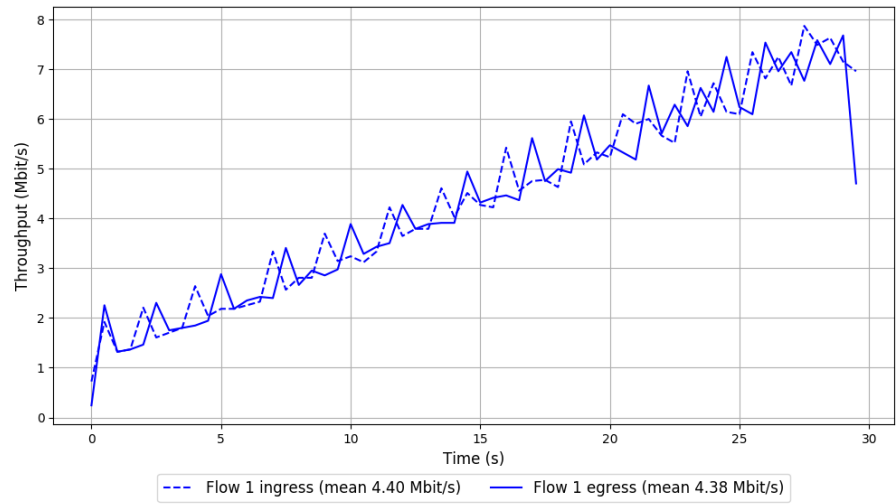
-- Flow 1:

Average throughput: 4.38 Mbit/s

95th percentile per-packet one-way delay: 73.035 ms

Loss rate: 1.38%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-30 12:41:09

End at: 2018-01-30 12:41:39

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.05 Mbit/s

95th percentile per-packet one-way delay: 83.260 ms

Loss rate: 0.63%

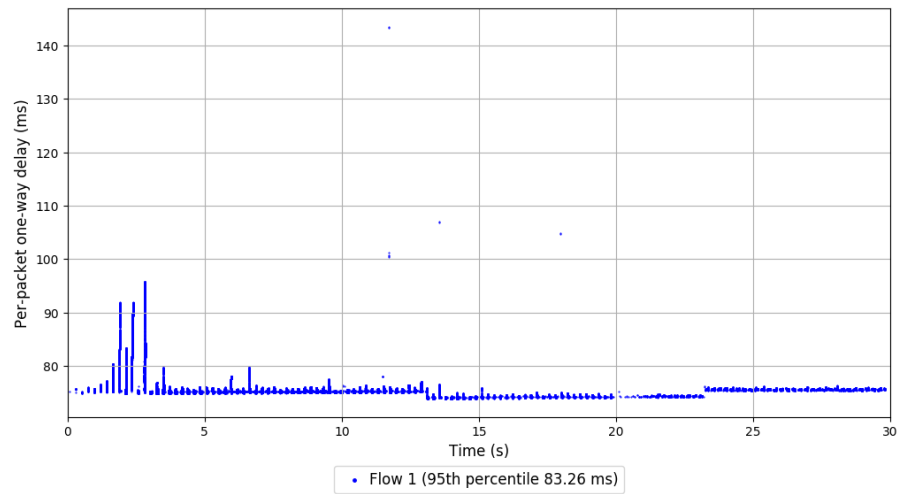
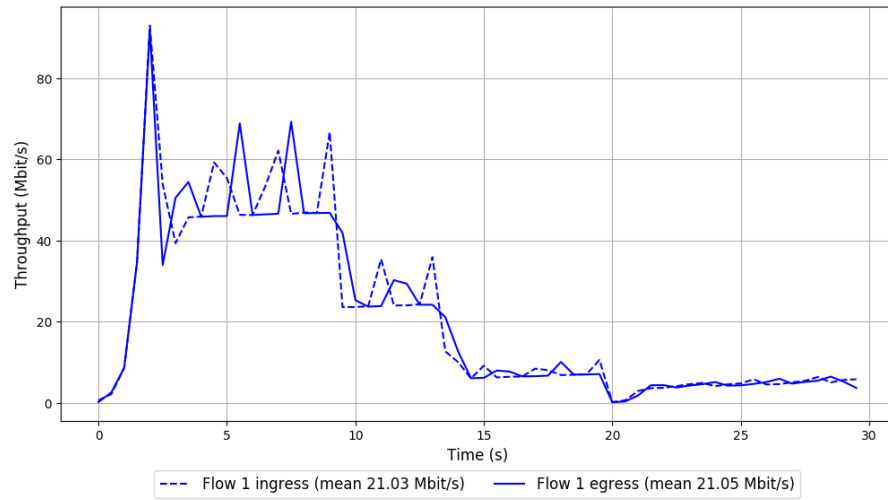
-- Flow 1:

Average throughput: 21.05 Mbit/s

95th percentile per-packet one-way delay: 83.260 ms

Loss rate: 0.63%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-30 12:55:41

End at: 2018-01-30 12:56:11

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 95.266 ms

Loss rate: 0.43%

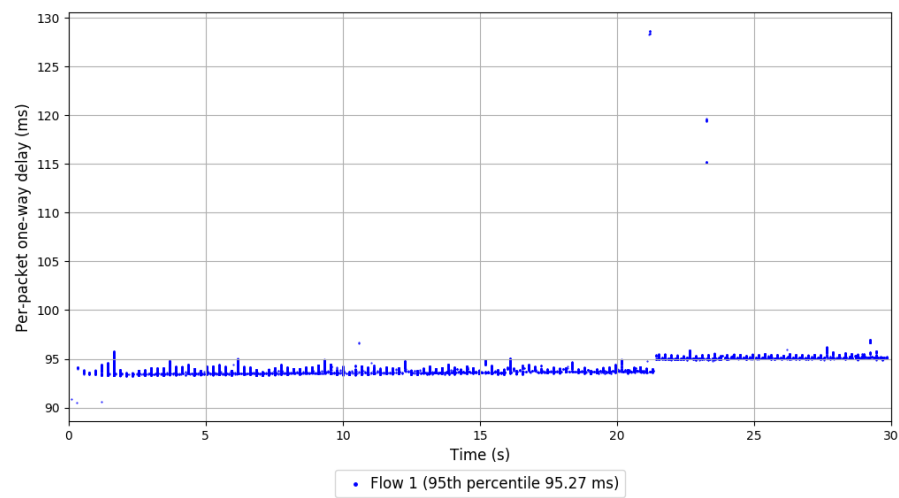
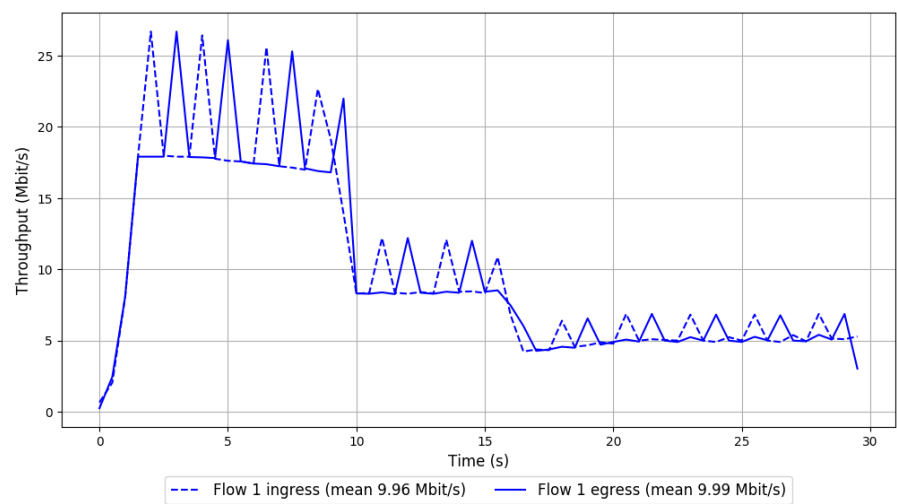
-- Flow 1:

Average throughput: 9.99 Mbit/s

95th percentile per-packet one-way delay: 95.266 ms

Loss rate: 0.43%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-30 13:10:23

End at: 2018-01-30 13:10:53

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 102.893 ms

Loss rate: 4.35%

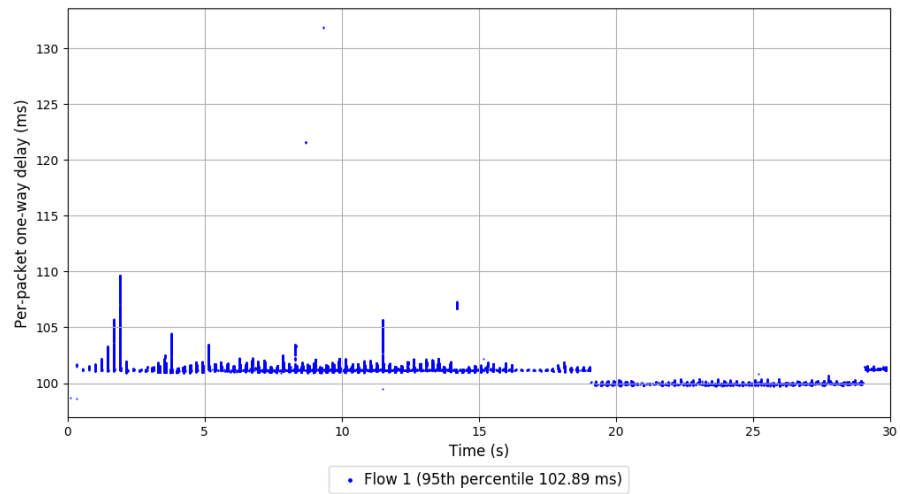
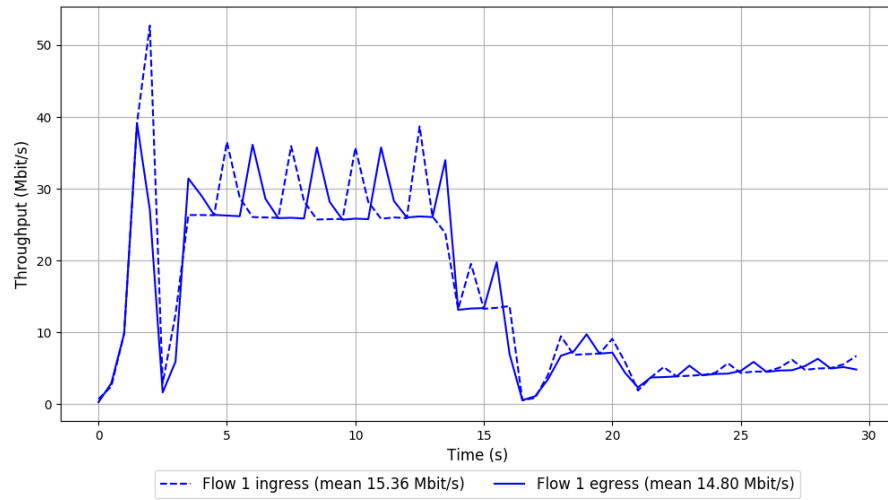
-- Flow 1:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 102.893 ms

Loss rate: 4.35%

Run 10: Report of TCP Vegas — Data Link

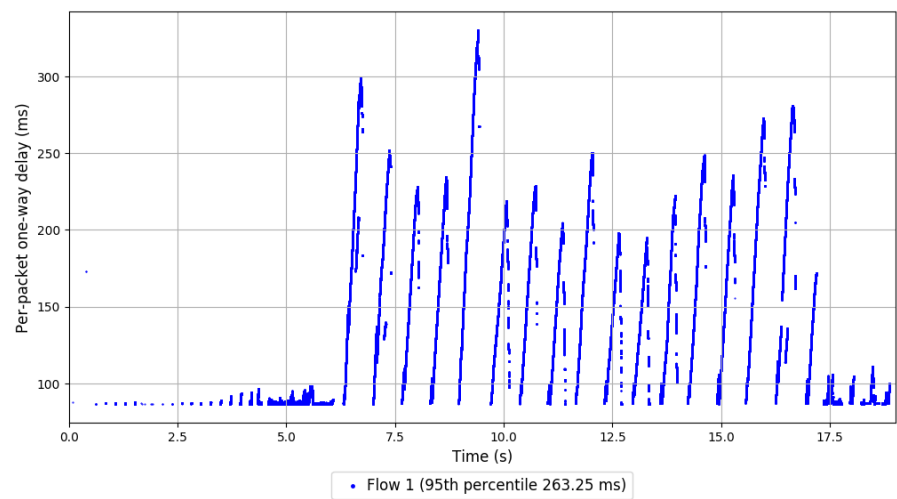
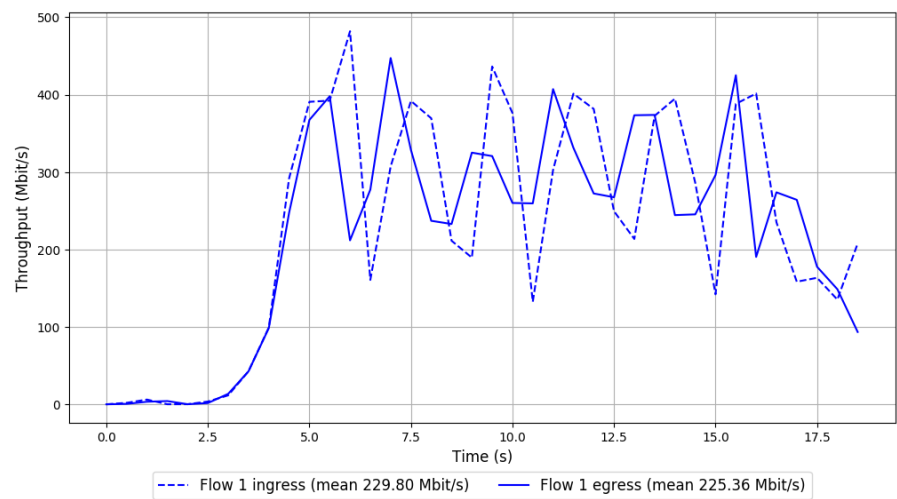


Run 1: Statistics of Verus

Start at: 2018-01-30 11:03:46

End at: 2018-01-30 11:04:16

Run 1: Report of Verus — Data Link

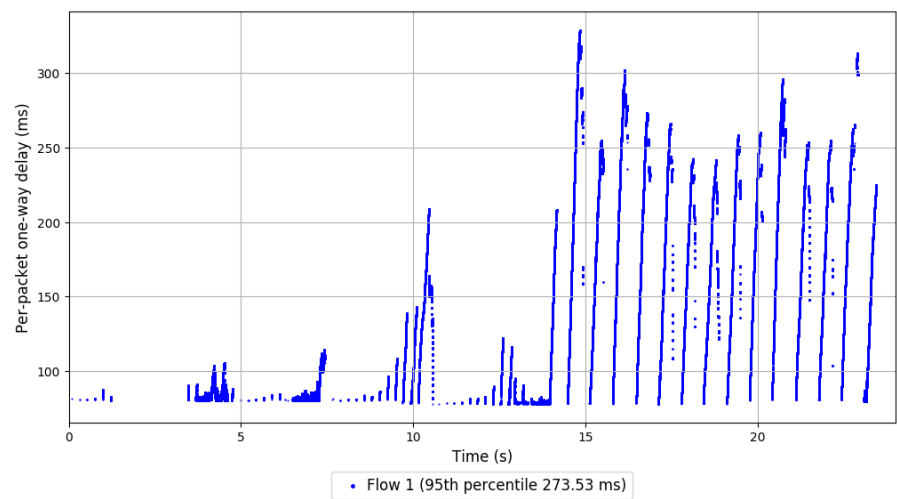
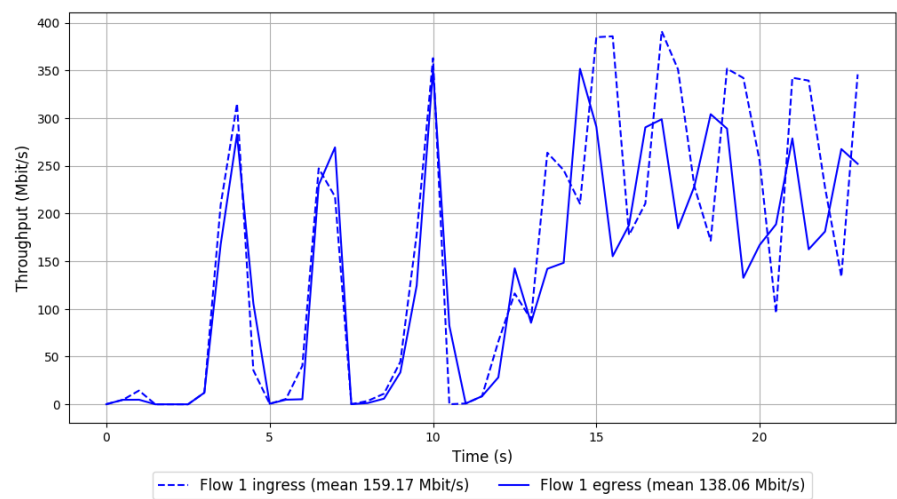


Run 2: Statistics of Verus

Start at: 2018-01-30 11:18:16

End at: 2018-01-30 11:18:46

Run 2: Report of Verus — Data Link

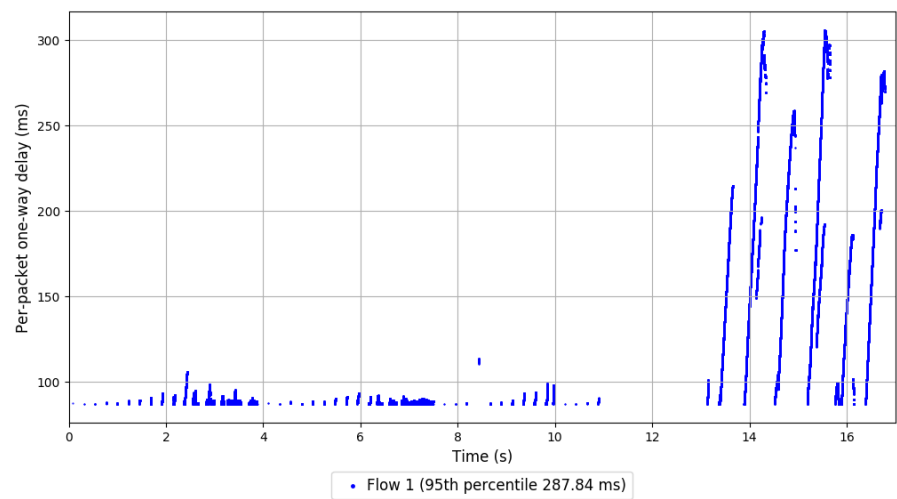
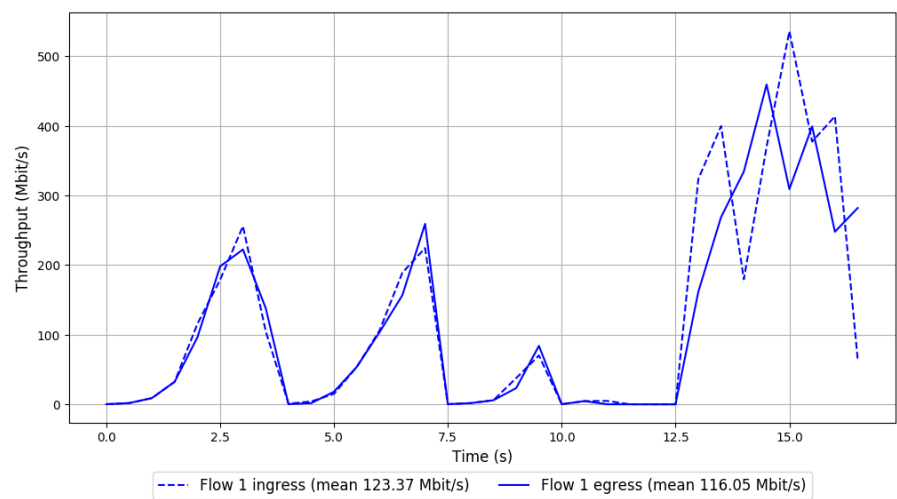


Run 3: Statistics of Verus

Start at: 2018-01-30 11:32:57

End at: 2018-01-30 11:33:27

Run 3: Report of Verus — Data Link

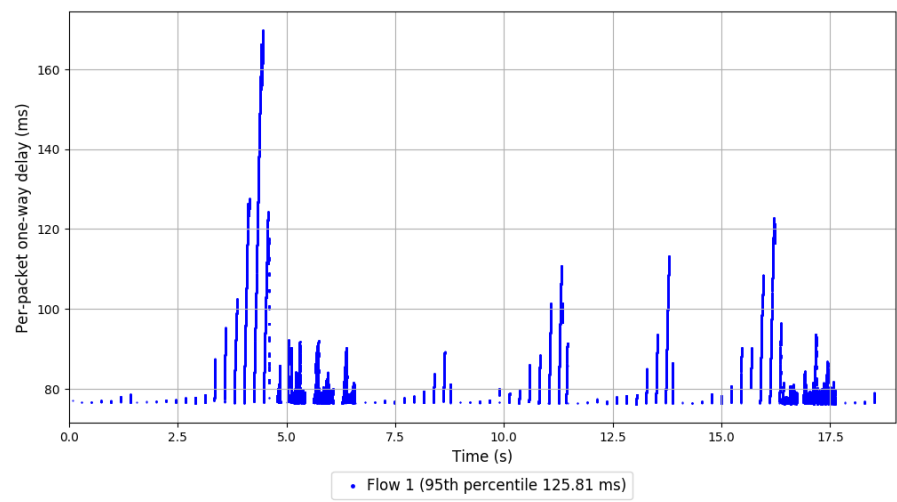
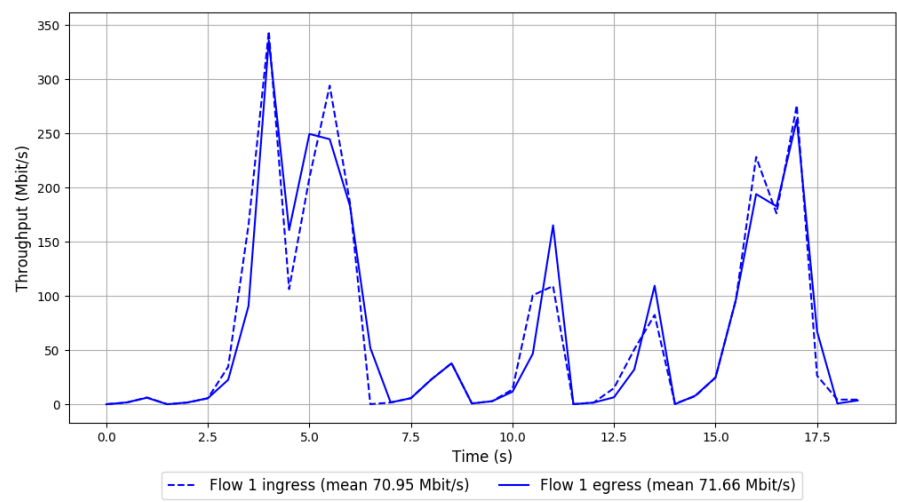


Run 4: Statistics of Verus

Start at: 2018-01-30 11:47:40

End at: 2018-01-30 11:48:10

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-30 12:02:06

End at: 2018-01-30 12:02:36

Below is generated by plot.py at 2018-01-30 16:16:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.37 Mbit/s

95th percentile per-packet one-way delay: 135.133 ms

Loss rate: 0.59%

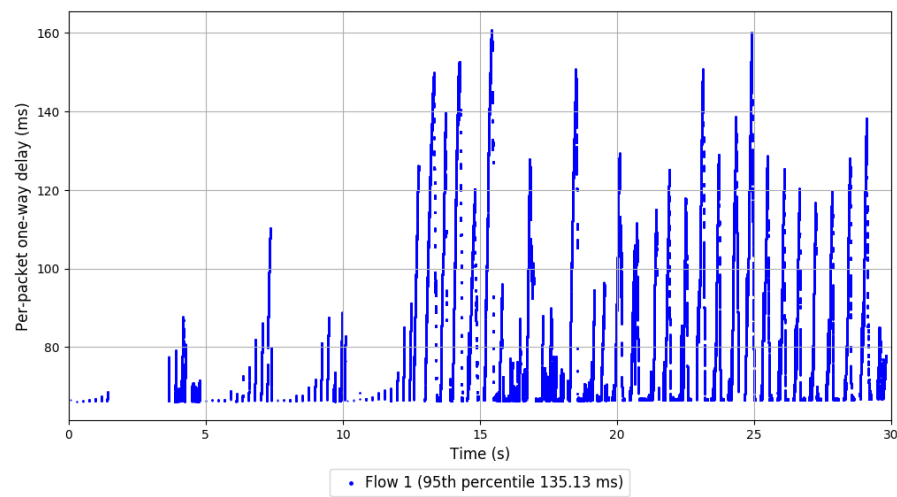
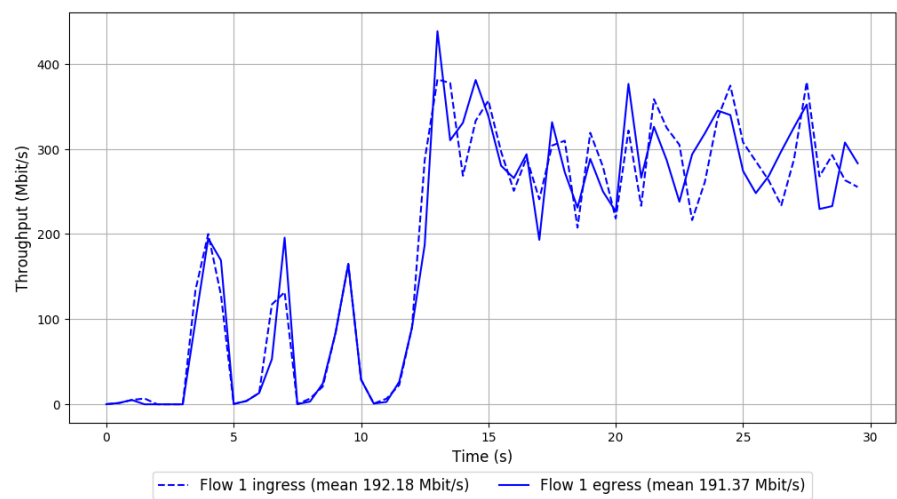
-- Flow 1:

Average throughput: 191.37 Mbit/s

95th percentile per-packet one-way delay: 135.133 ms

Loss rate: 0.59%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-30 12:17:16

End at: 2018-01-30 12:17:46

Below is generated by plot.py at 2018-01-30 16:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.82 Mbit/s

95th percentile per-packet one-way delay: 184.057 ms

Loss rate: 1.31%

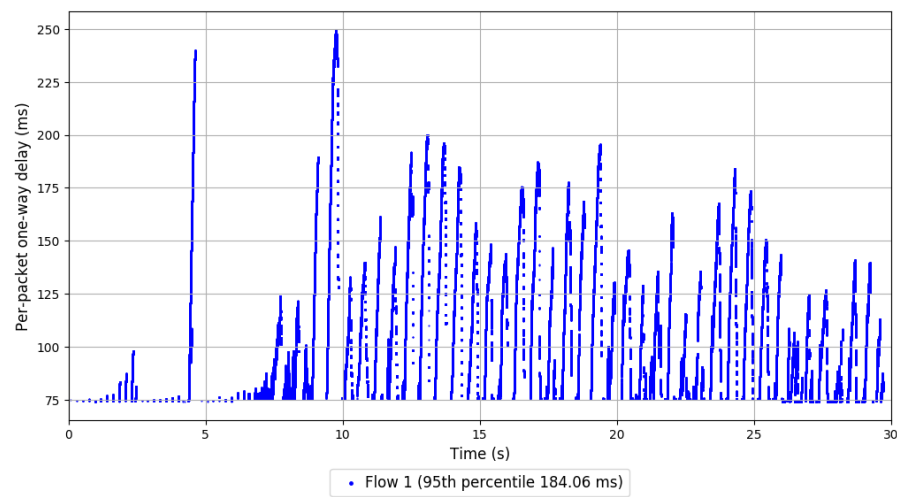
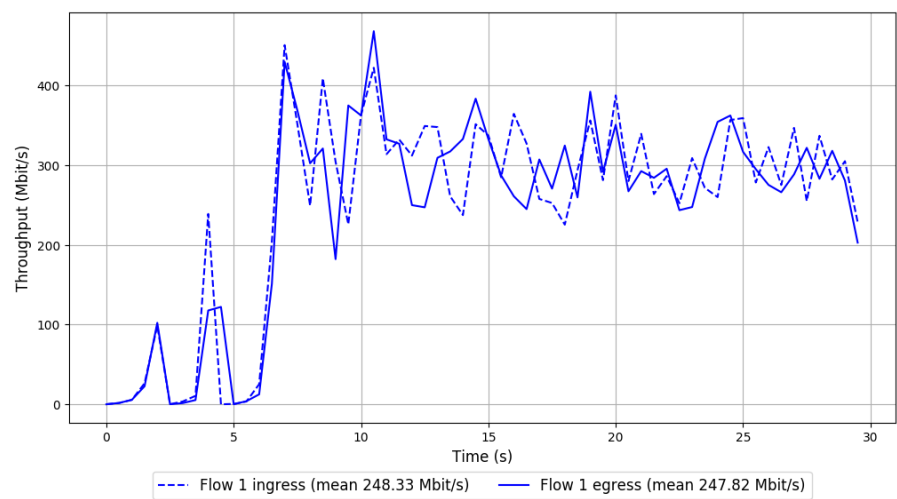
-- Flow 1:

Average throughput: 247.82 Mbit/s

95th percentile per-packet one-way delay: 184.057 ms

Loss rate: 1.31%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-30 12:32:09

End at: 2018-01-30 12:32:39

Below is generated by plot.py at 2018-01-30 16:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.90 Mbit/s

95th percentile per-packet one-way delay: 260.936 ms

Loss rate: 9.35%

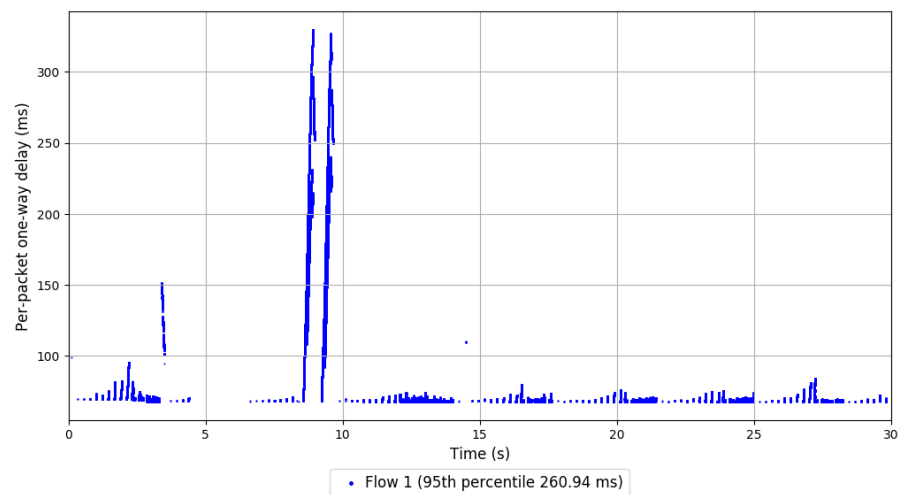
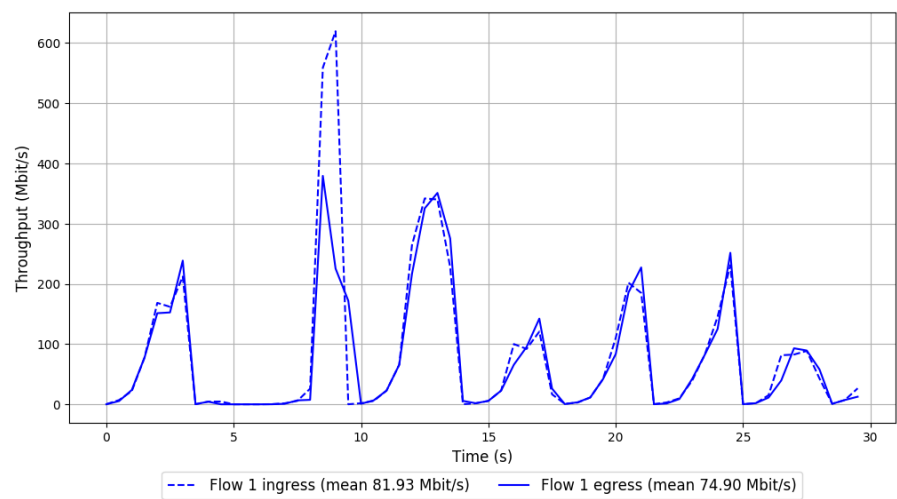
-- Flow 1:

Average throughput: 74.90 Mbit/s

95th percentile per-packet one-way delay: 260.936 ms

Loss rate: 9.35%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-30 12:46:37

End at: 2018-01-30 12:47:07

Below is generated by plot.py at 2018-01-30 16:17:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.04 Mbit/s

95th percentile per-packet one-way delay: 306.250 ms

Loss rate: 12.25%

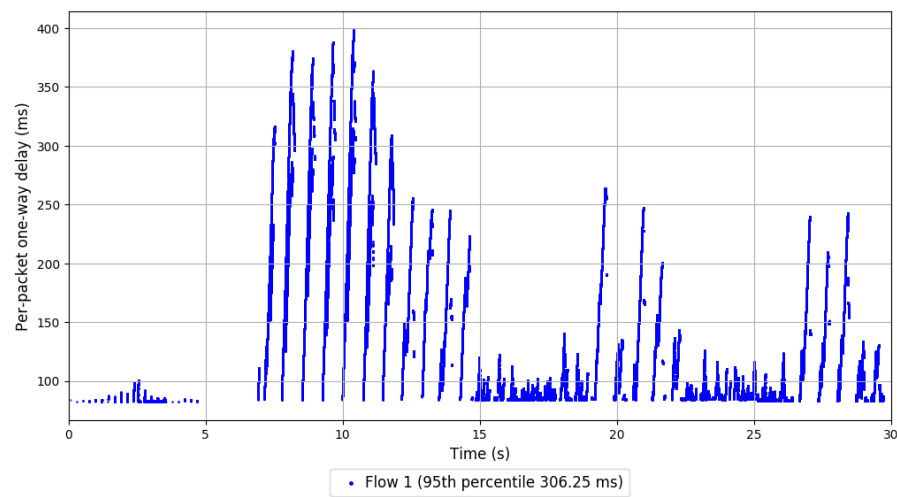
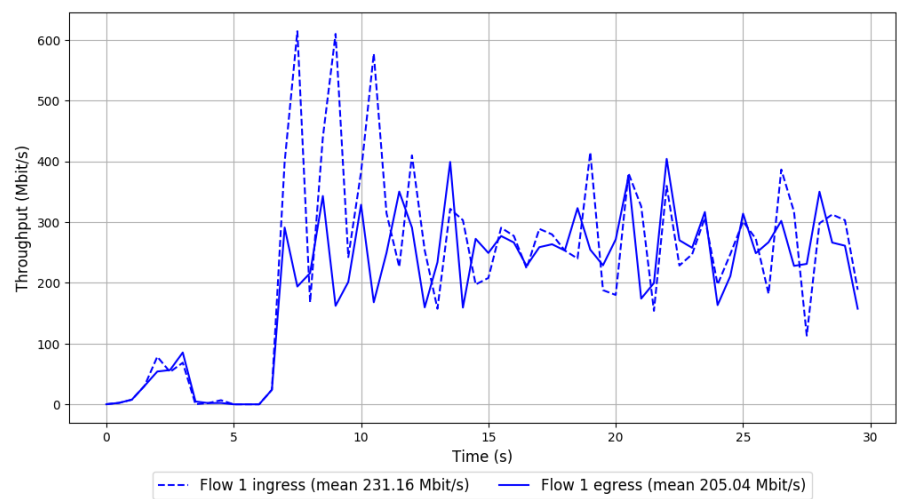
-- Flow 1:

Average throughput: 205.04 Mbit/s

95th percentile per-packet one-way delay: 306.250 ms

Loss rate: 12.25%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-30 13:01:28

End at: 2018-01-30 13:01:58

Below is generated by plot.py at 2018-01-30 16:17:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.33 Mbit/s

95th percentile per-packet one-way delay: 172.351 ms

Loss rate: 2.65%

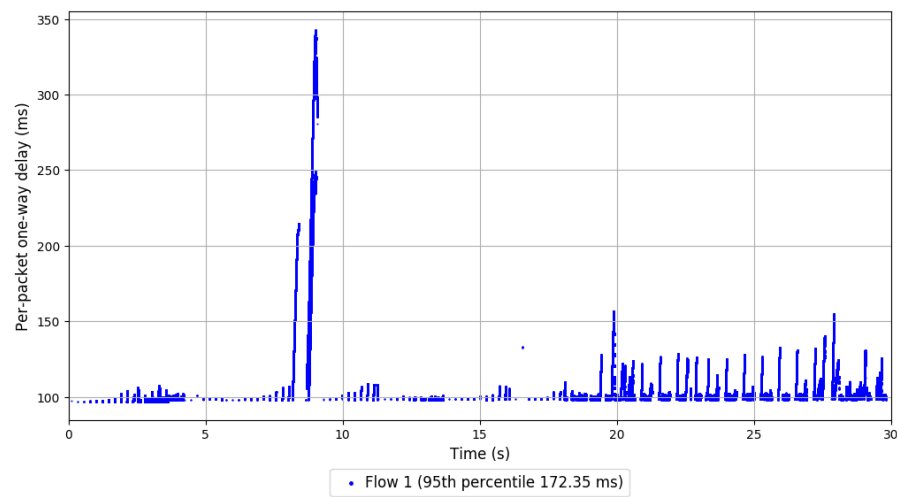
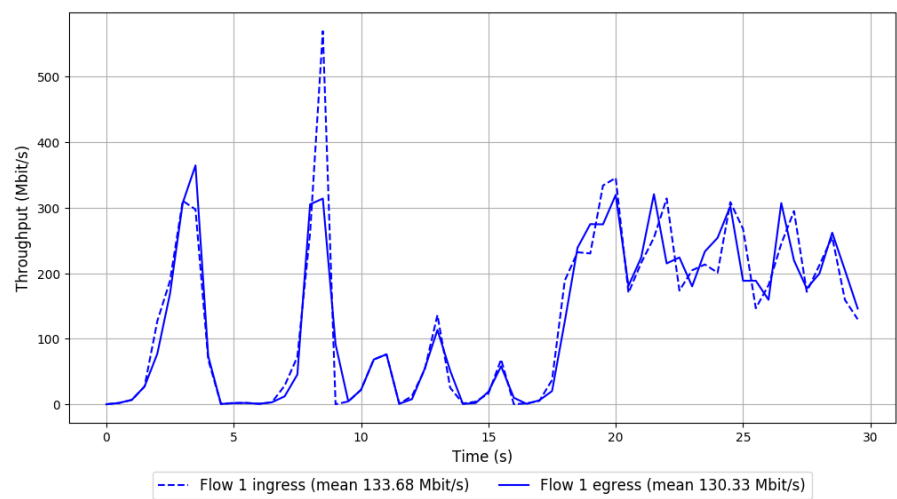
-- Flow 1:

Average throughput: 130.33 Mbit/s

95th percentile per-packet one-way delay: 172.351 ms

Loss rate: 2.65%

Run 9: Report of Verus — Data Link

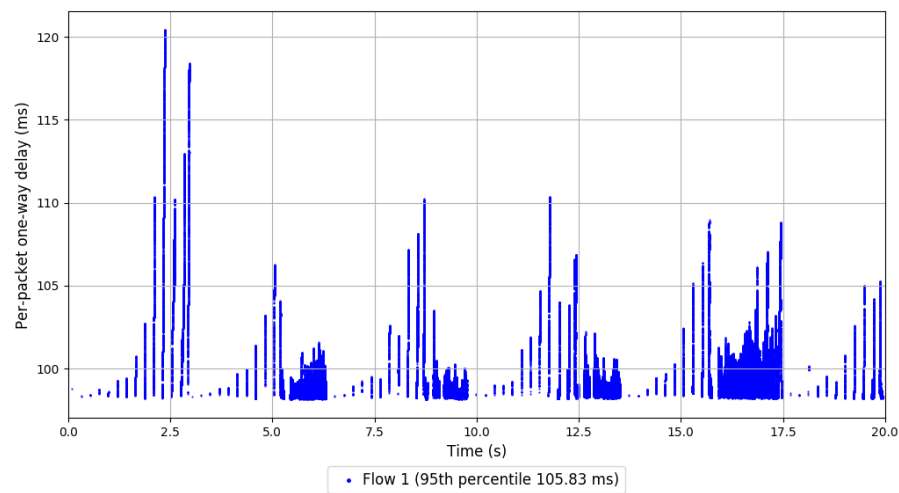
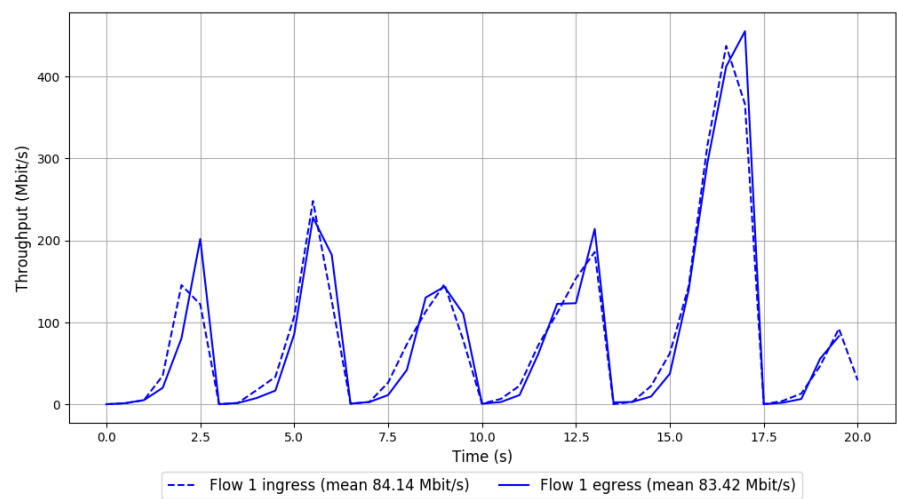


Run 10: Statistics of Verus

Start at: 2018-01-30 13:16:07

End at: 2018-01-30 13:16:37

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-30 10:57:14

End at: 2018-01-30 10:57:44

Below is generated by plot.py at 2018-01-30 16:17:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 85.956 ms

Loss rate: 0.14%

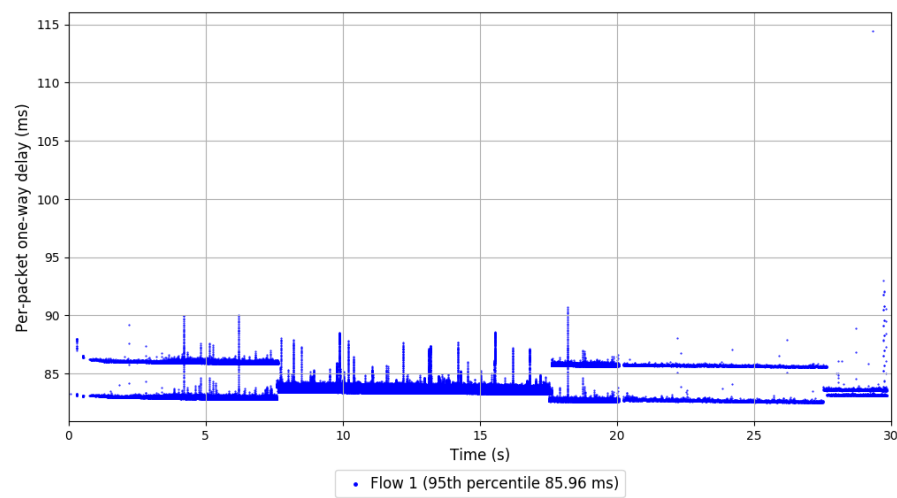
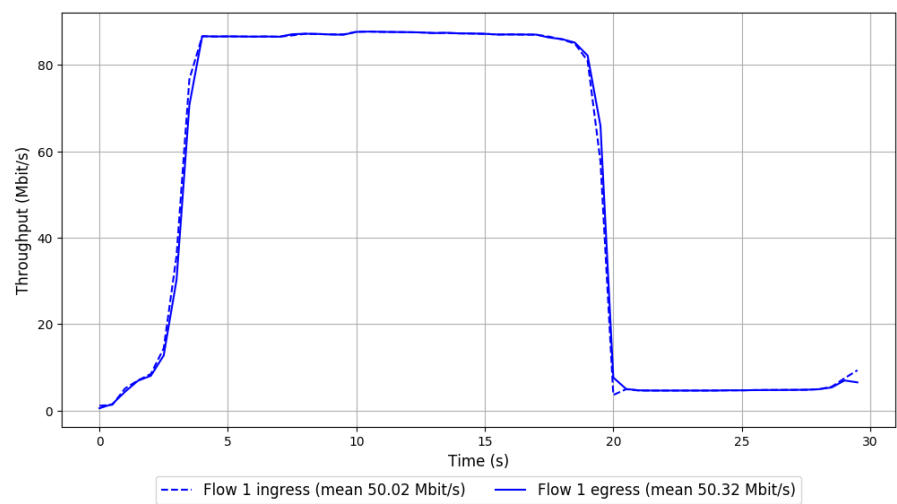
-- Flow 1:

Average throughput: 50.32 Mbit/s

95th percentile per-packet one-way delay: 85.956 ms

Loss rate: 0.14%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-30 11:11:57

End at: 2018-01-30 11:12:27

Below is generated by plot.py at 2018-01-30 16:17:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 87.939 ms

Loss rate: 2.00%

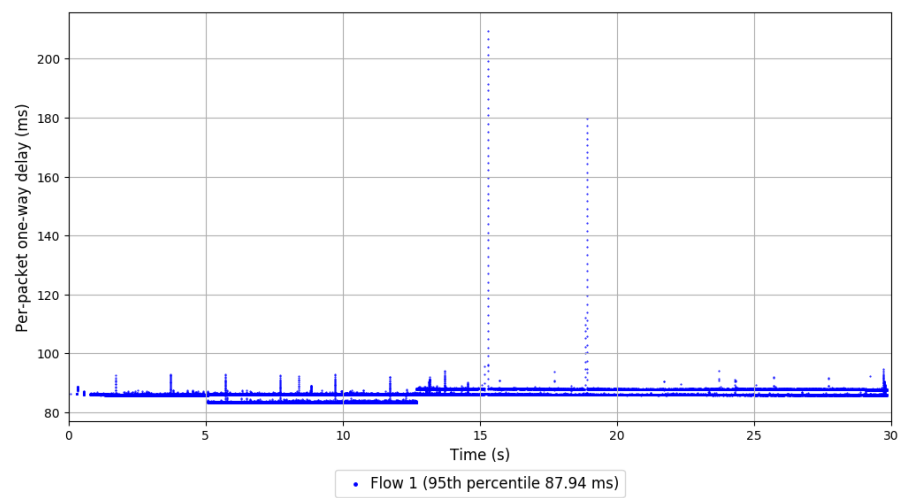
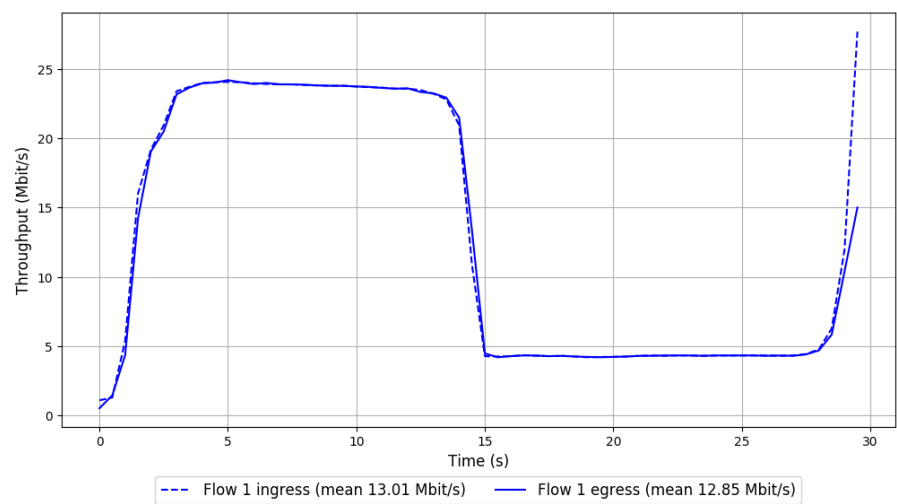
-- Flow 1:

Average throughput: 12.85 Mbit/s

95th percentile per-packet one-way delay: 87.939 ms

Loss rate: 2.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-30 11:26:30

End at: 2018-01-30 11:27:00

Below is generated by plot.py at 2018-01-30 16:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.27 Mbit/s

95th percentile per-packet one-way delay: 82.751 ms

Loss rate: 0.48%

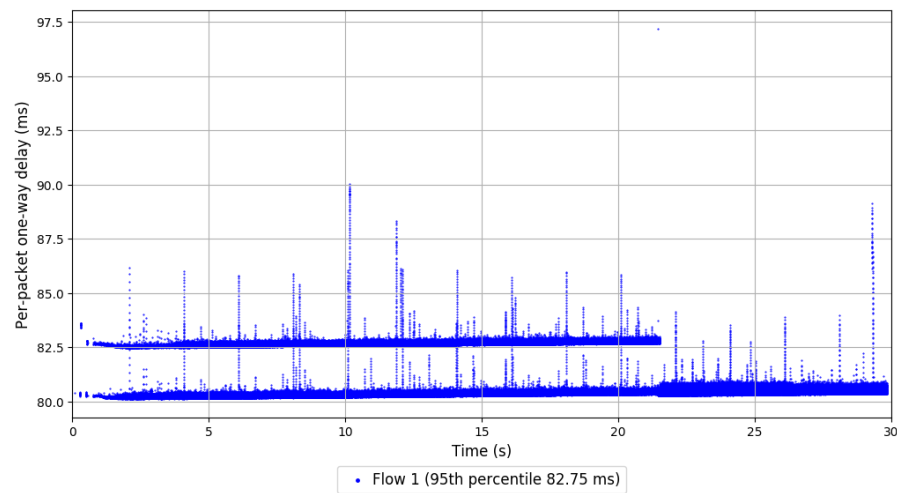
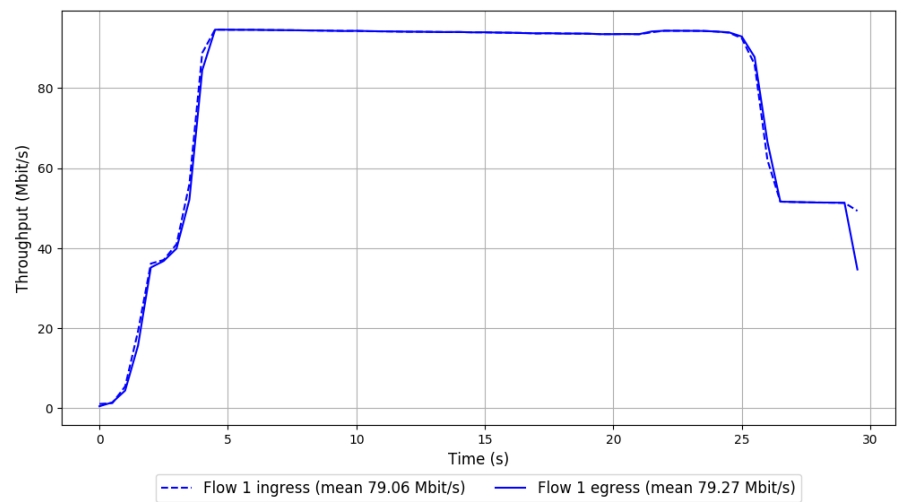
-- Flow 1:

Average throughput: 79.27 Mbit/s

95th percentile per-packet one-way delay: 82.751 ms

Loss rate: 0.48%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-30 11:41:06

End at: 2018-01-30 11:41:36

Below is generated by plot.py at 2018-01-30 16:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 83.865 ms

Loss rate: 0.07%

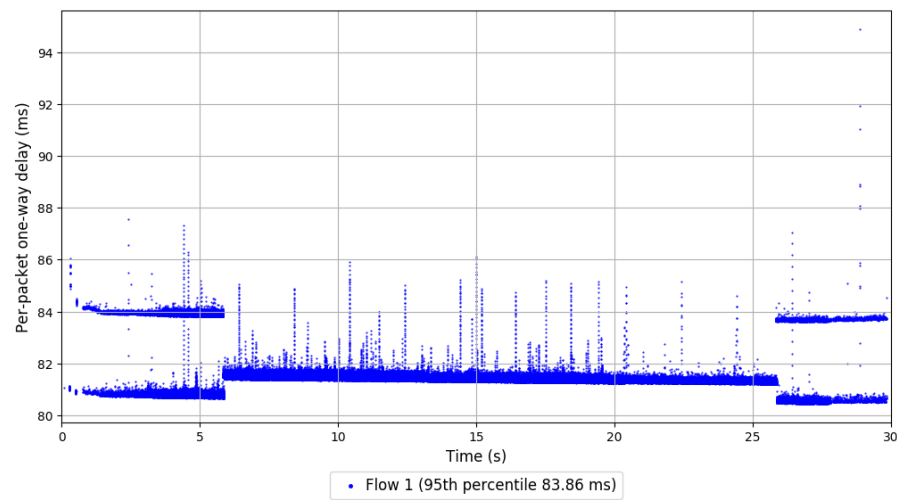
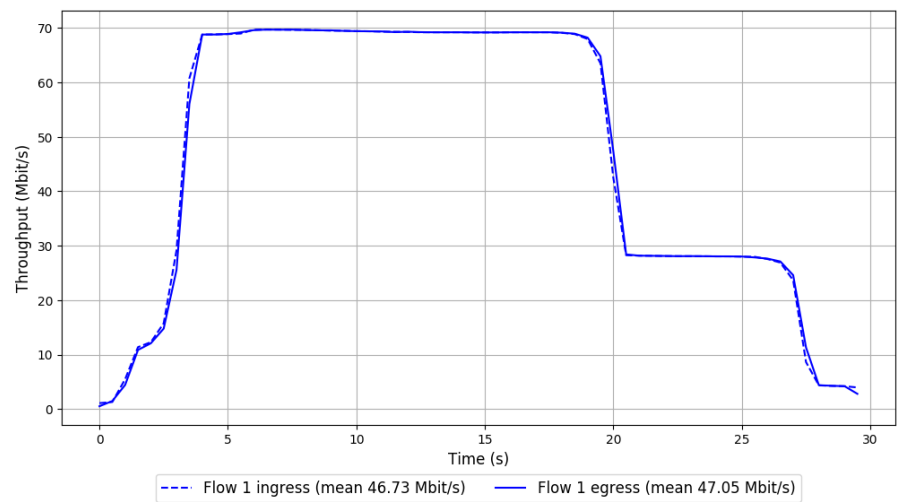
-- Flow 1:

Average throughput: 47.05 Mbit/s

95th percentile per-packet one-way delay: 83.865 ms

Loss rate: 0.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-30 11:55:45

End at: 2018-01-30 11:56:15

Below is generated by plot.py at 2018-01-30 16:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.78 Mbit/s

95th percentile per-packet one-way delay: 68.795 ms

Loss rate: 0.15%

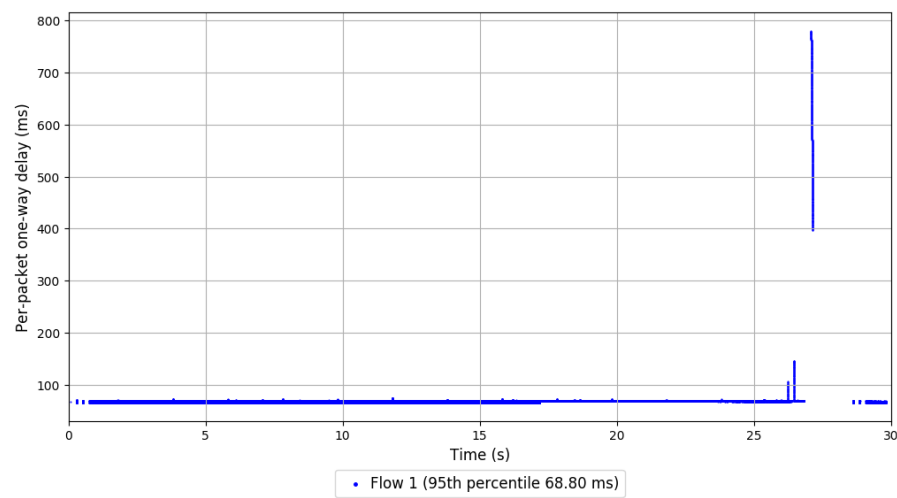
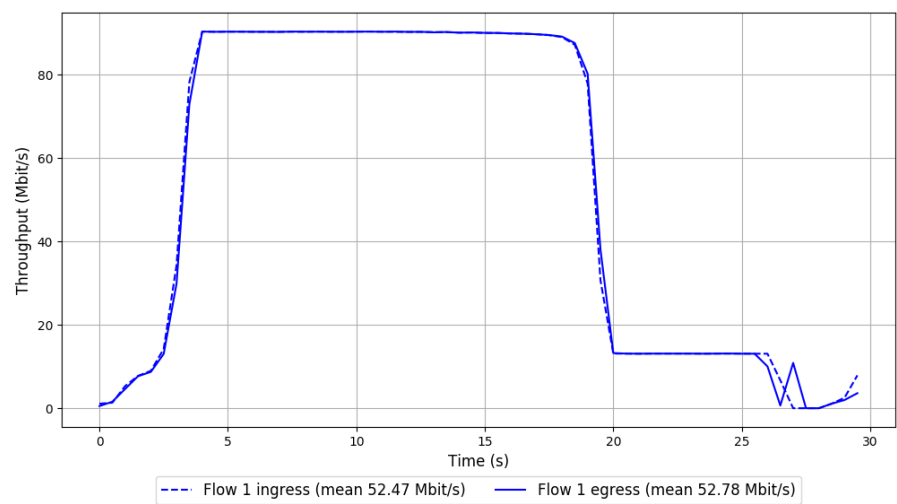
-- Flow 1:

Average throughput: 52.78 Mbit/s

95th percentile per-packet one-way delay: 68.795 ms

Loss rate: 0.15%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-30 12:10:45

End at: 2018-01-30 12:11:15

Below is generated by plot.py at 2018-01-30 16:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.64 Mbit/s

95th percentile per-packet one-way delay: 74.104 ms

Loss rate: 0.84%

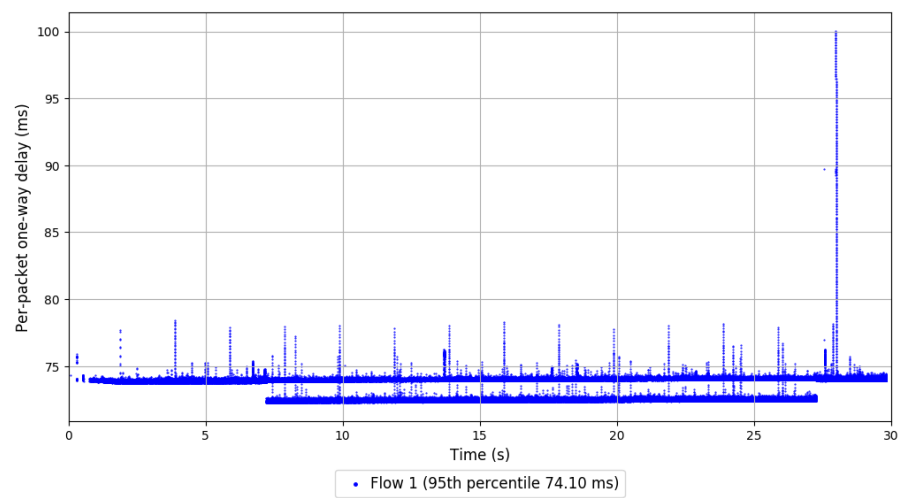
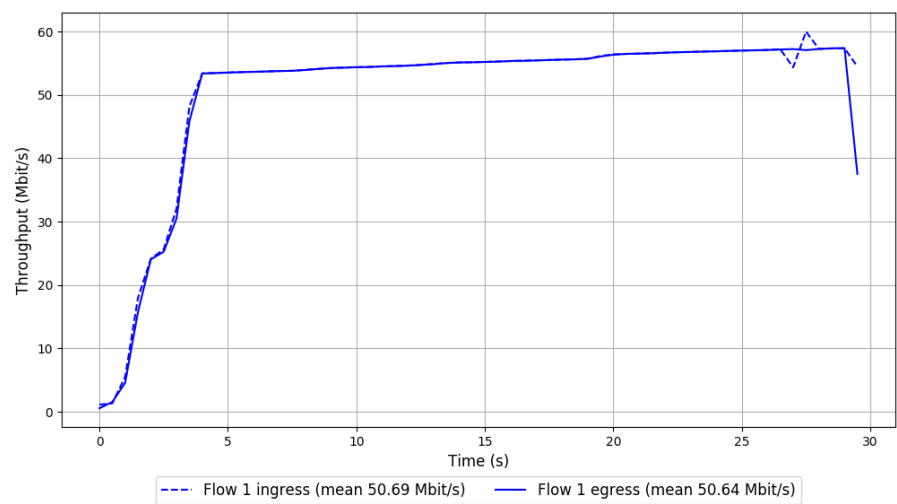
-- Flow 1:

Average throughput: 50.64 Mbit/s

95th percentile per-packet one-way delay: 74.104 ms

Loss rate: 0.84%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-30 12:25:44

End at: 2018-01-30 12:26:14

Below is generated by plot.py at 2018-01-30 16:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 73.049 ms

Loss rate: 0.28%

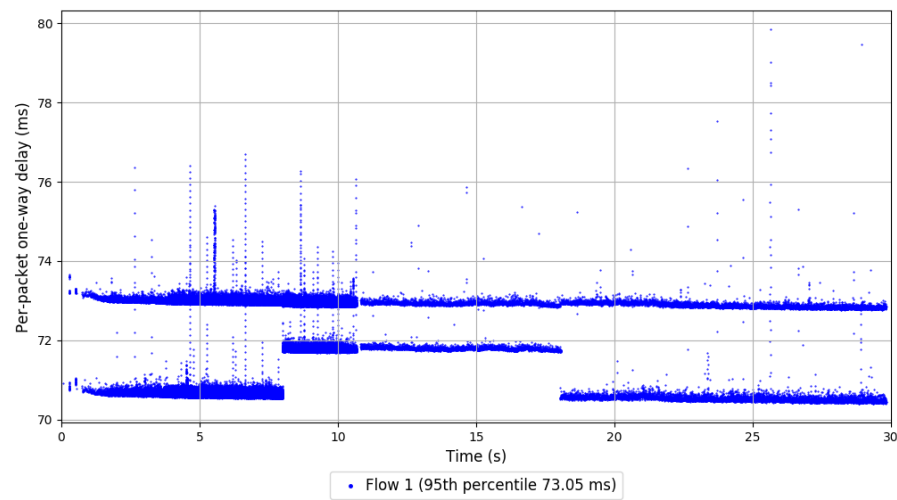
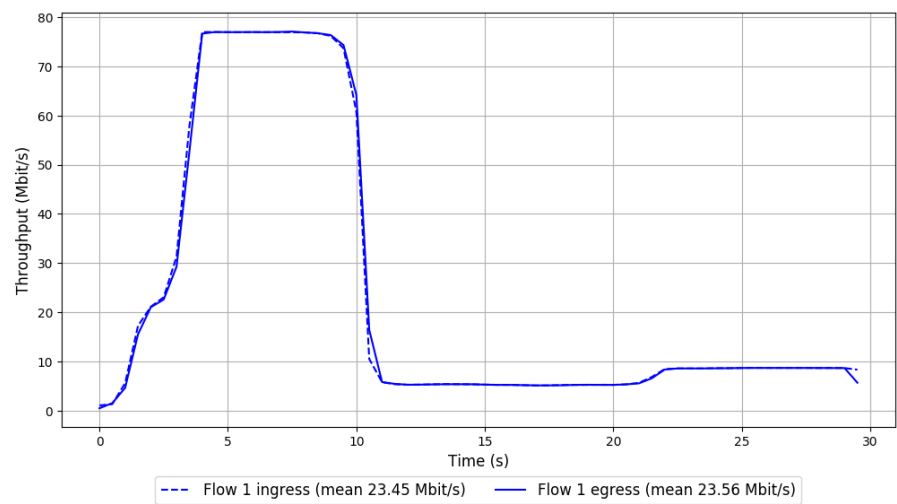
-- Flow 1:

Average throughput: 23.56 Mbit/s

95th percentile per-packet one-way delay: 73.049 ms

Loss rate: 0.28%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-30 12:40:25

End at: 2018-01-30 12:40:55

Below is generated by plot.py at 2018-01-30 16:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.74 Mbit/s

95th percentile per-packet one-way delay: 74.497 ms

Loss rate: 0.26%

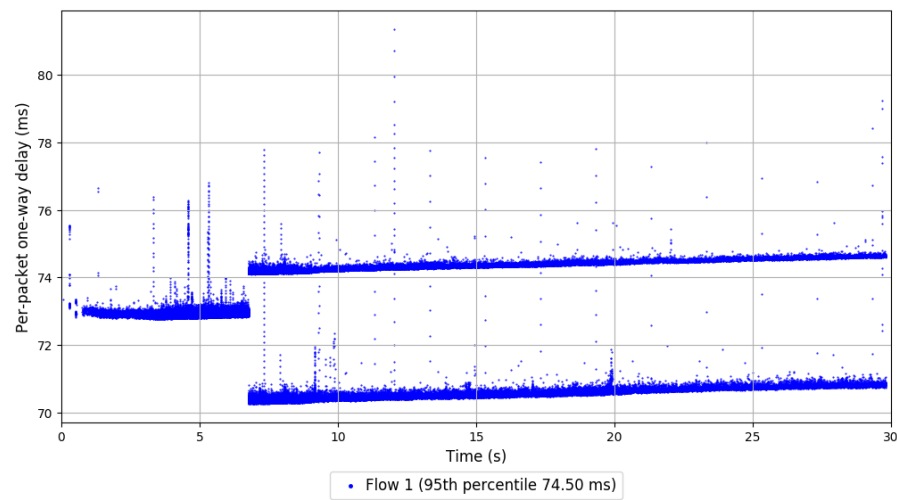
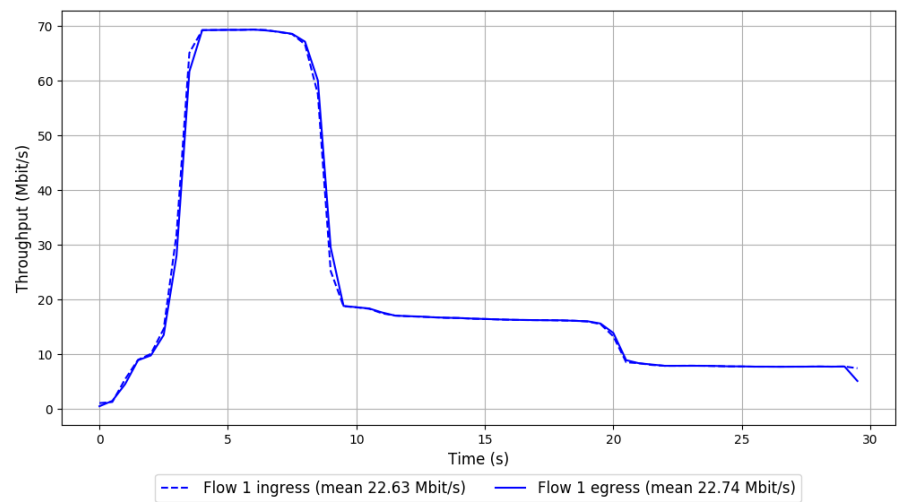
-- Flow 1:

Average throughput: 22.74 Mbit/s

95th percentile per-packet one-way delay: 74.497 ms

Loss rate: 0.26%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-30 12:54:58

End at: 2018-01-30 12:55:28

Below is generated by plot.py at 2018-01-30 16:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.62 Mbit/s

95th percentile per-packet one-way delay: 94.361 ms

Loss rate: 2.27%

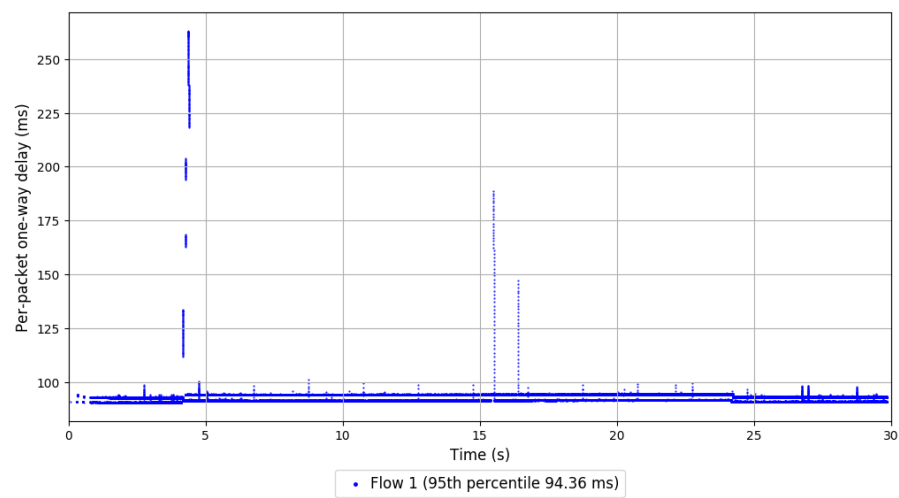
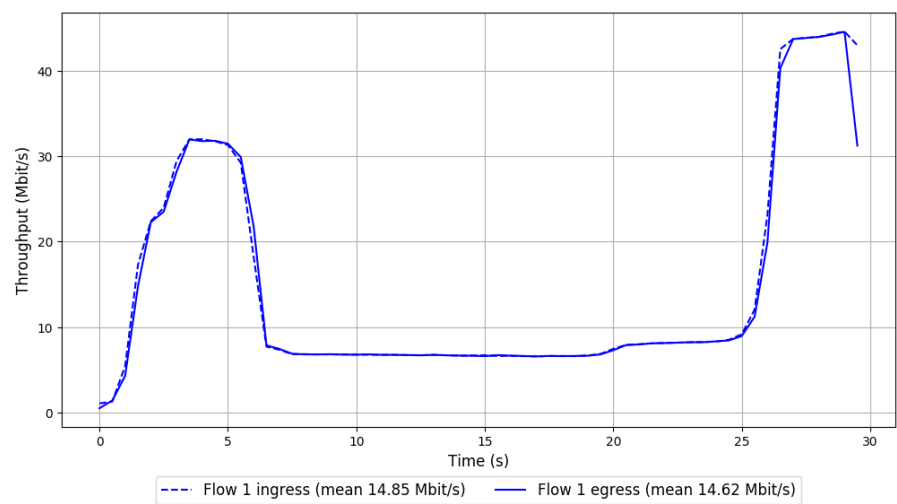
-- Flow 1:

Average throughput: 14.62 Mbit/s

95th percentile per-packet one-way delay: 94.361 ms

Loss rate: 2.27%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-30 13:09:40

End at: 2018-01-30 13:10:10

Below is generated by plot.py at 2018-01-30 16:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 100.845 ms

Loss rate: 0.31%

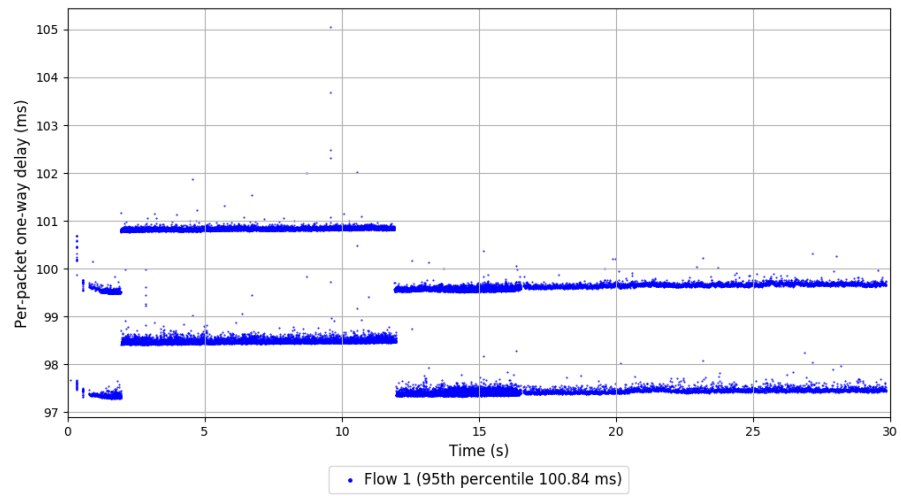
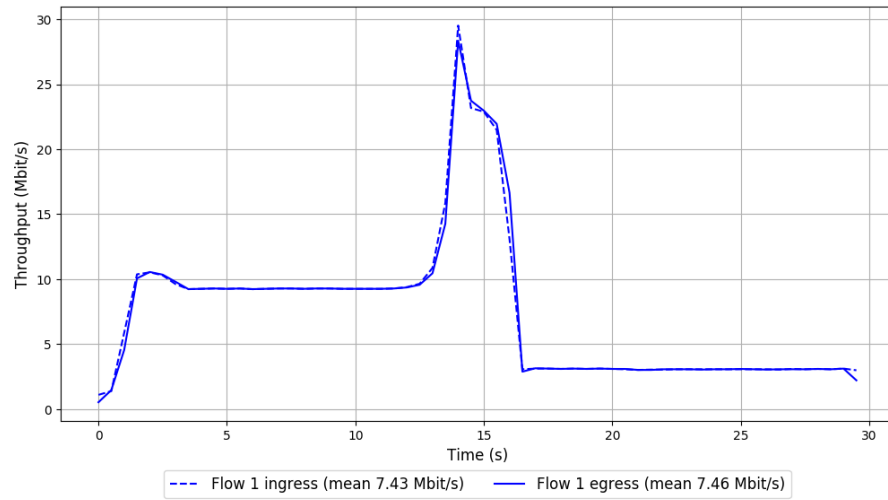
-- Flow 1:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 100.845 ms

Loss rate: 0.31%

Run 10: Report of Copa — Data Link

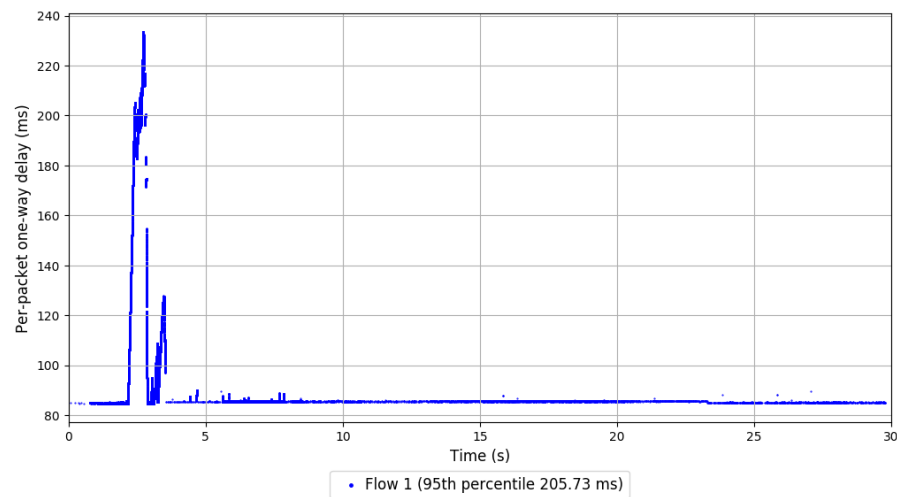
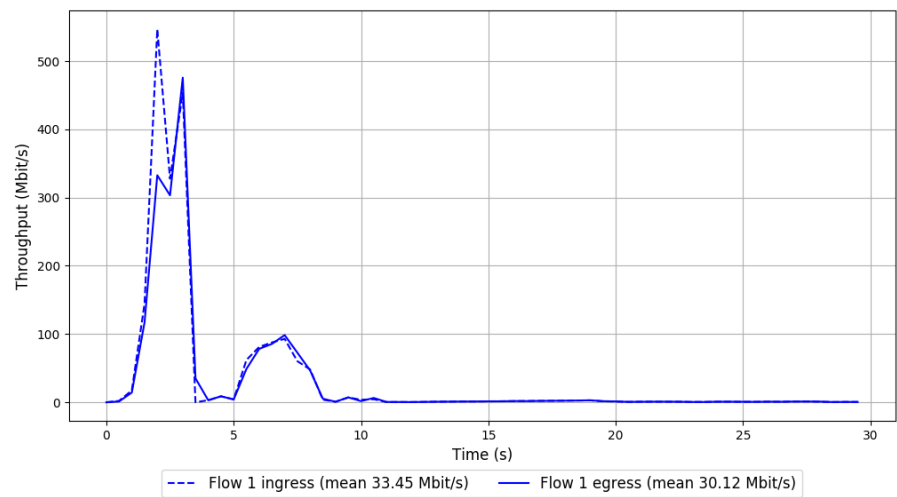


```
Run 1: Statistics of FillP

Start at: 2018-01-30 11:04:39
End at: 2018-01-30 11:05:09

# Below is generated by plot.py at 2018-01-30 16:18:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 205.728 ms
Loss rate: 10.61%
-- Flow 1:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 205.728 ms
Loss rate: 10.61%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-30 11:19:07

End at: 2018-01-30 11:19:37

Below is generated by plot.py at 2018-01-30 16:18:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.16 Mbit/s

95th percentile per-packet one-way delay: 274.135 ms

Loss rate: 17.13%

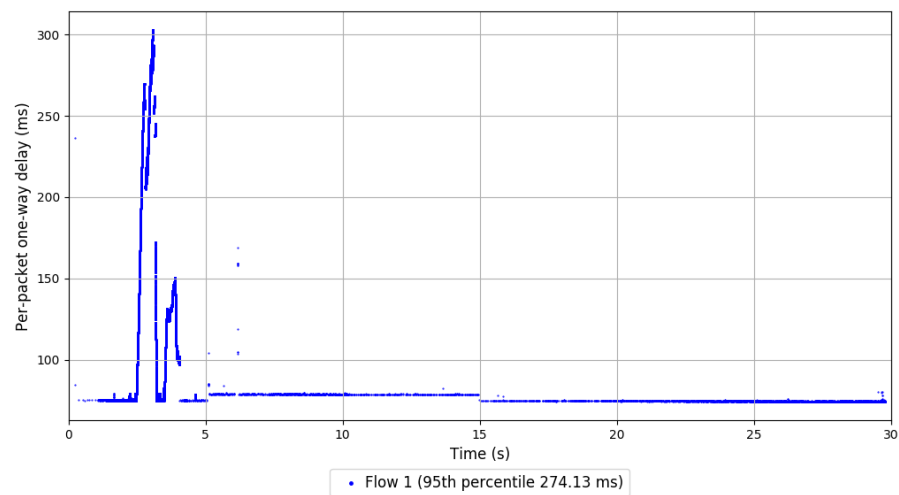
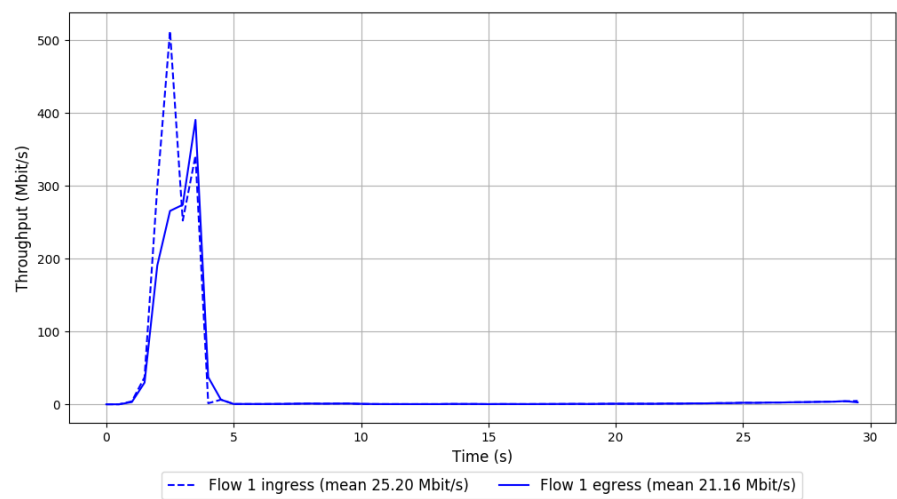
-- Flow 1:

Average throughput: 21.16 Mbit/s

95th percentile per-packet one-way delay: 274.135 ms

Loss rate: 17.13%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-30 11:33:43

End at: 2018-01-30 11:34:13

Below is generated by plot.py at 2018-01-30 16:18:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.99 Mbit/s

95th percentile per-packet one-way delay: 262.782 ms

Loss rate: 5.41%

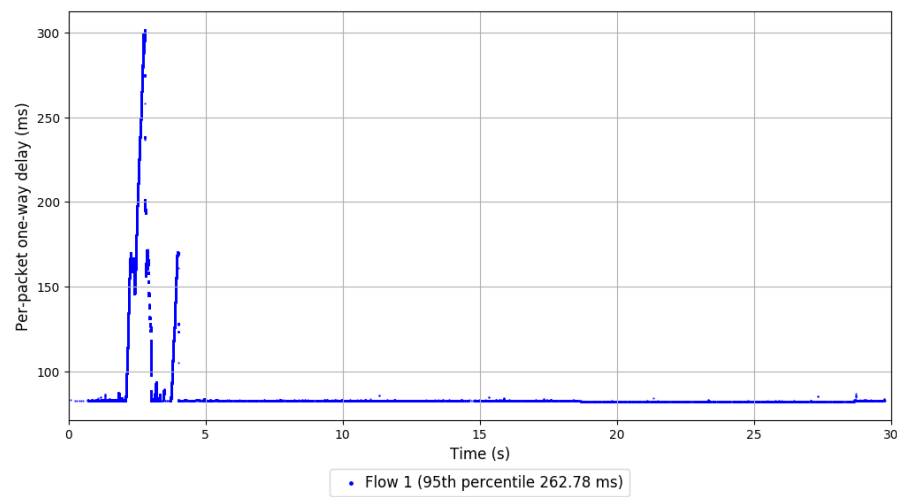
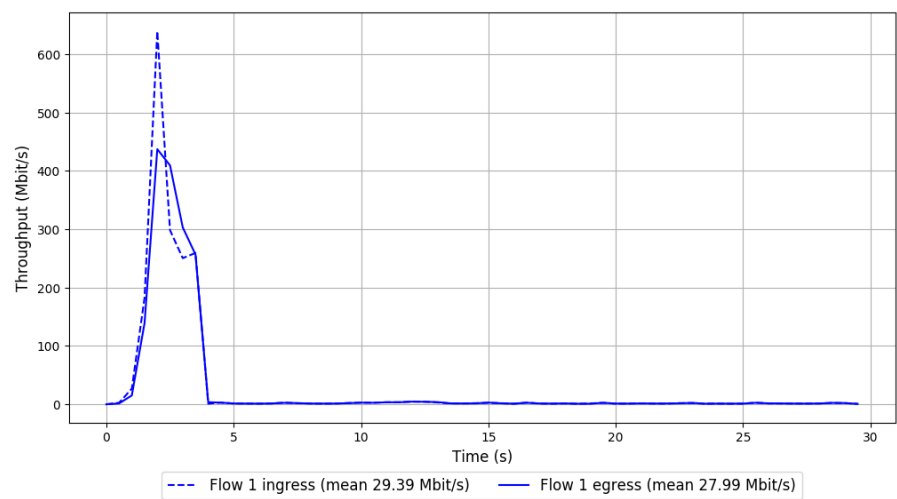
-- Flow 1:

Average throughput: 27.99 Mbit/s

95th percentile per-packet one-way delay: 262.782 ms

Loss rate: 5.41%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-30 11:48:24

End at: 2018-01-30 11:48:54

Below is generated by plot.py at 2018-01-30 16:18:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 307.594 ms

Loss rate: 7.28%

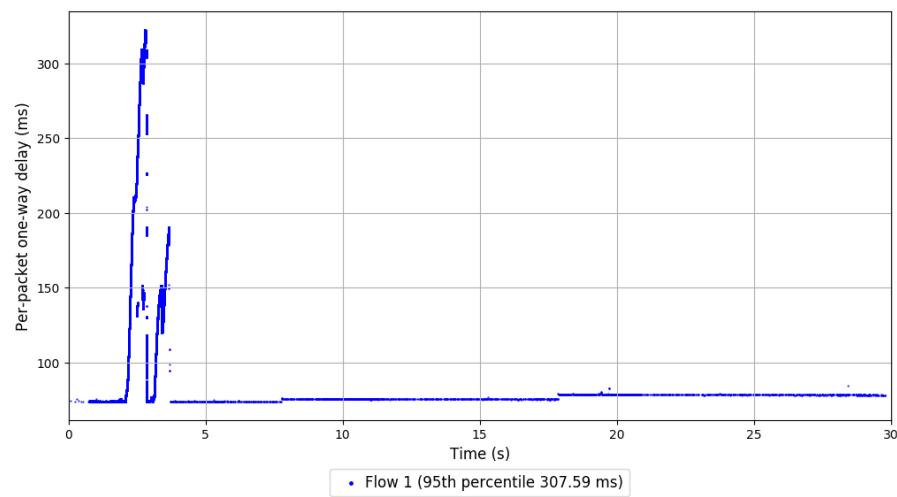
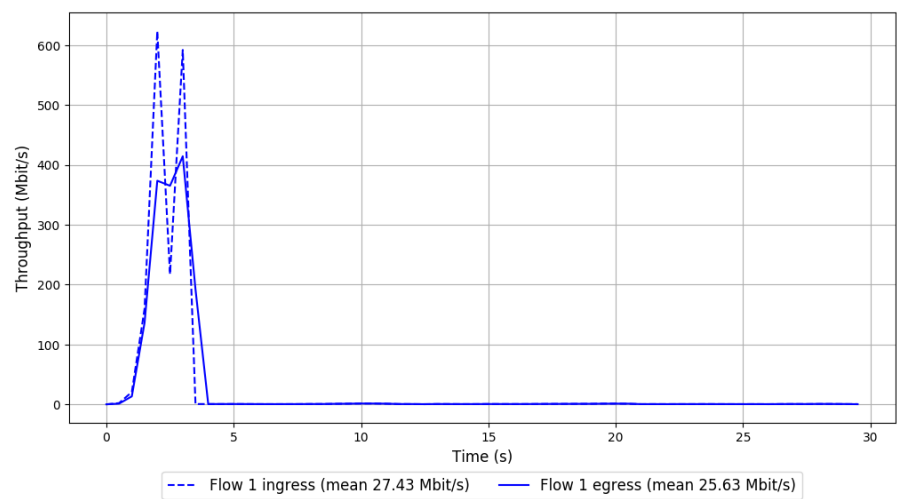
-- Flow 1:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 307.594 ms

Loss rate: 7.28%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-30 12:03:02

End at: 2018-01-30 12:03:32

Below is generated by plot.py at 2018-01-30 16:18:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 301.103 ms

Loss rate: 17.41%

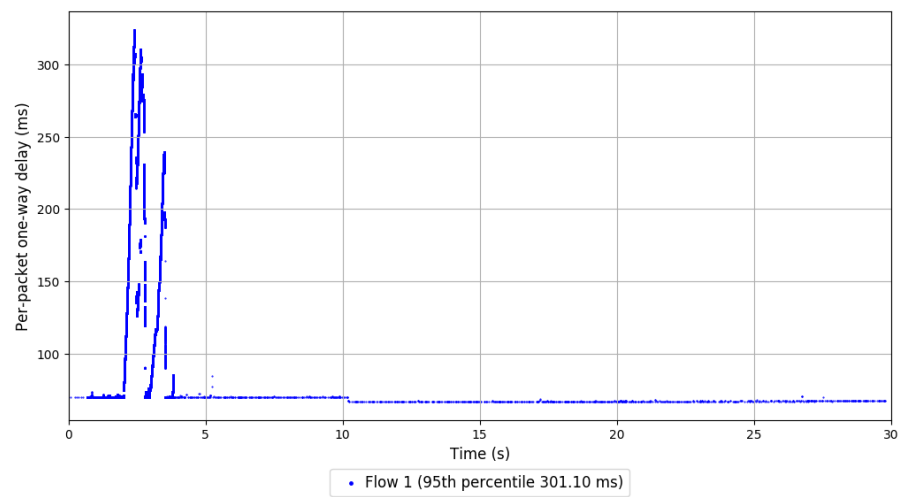
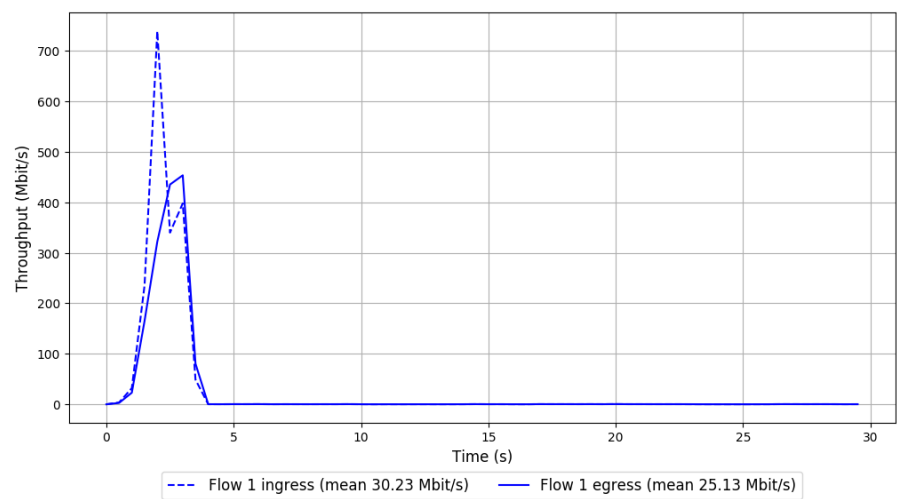
-- Flow 1:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 301.103 ms

Loss rate: 17.41%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-30 12:18:15

End at: 2018-01-30 12:18:45

Below is generated by plot.py at 2018-01-30 16:18:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.28 Mbit/s

95th percentile per-packet one-way delay: 244.888 ms

Loss rate: 4.49%

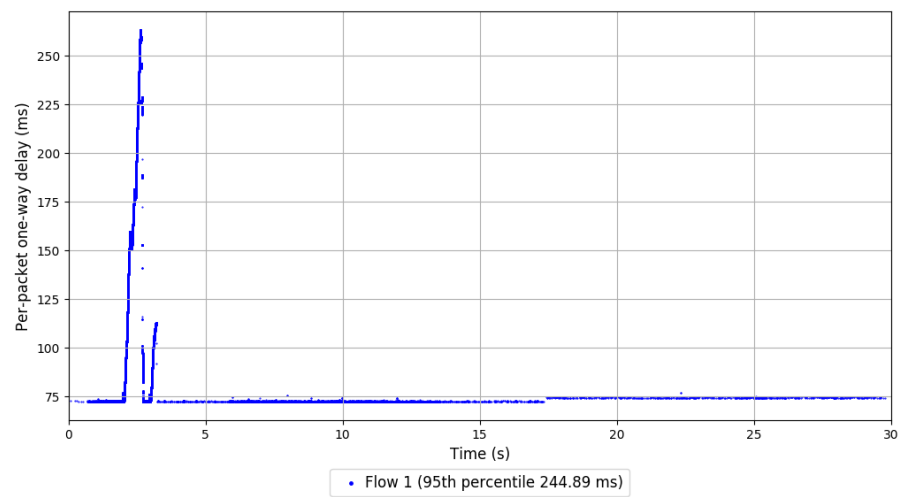
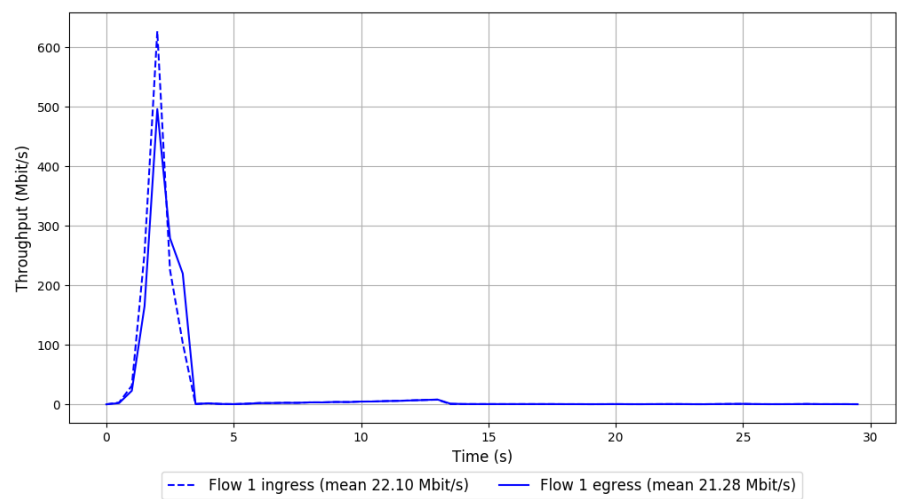
-- Flow 1:

Average throughput: 21.28 Mbit/s

95th percentile per-packet one-way delay: 244.888 ms

Loss rate: 4.49%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-30 12:32:56

End at: 2018-01-30 12:33:26

Below is generated by plot.py at 2018-01-30 16:18:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.70 Mbit/s

95th percentile per-packet one-way delay: 288.252 ms

Loss rate: 16.84%

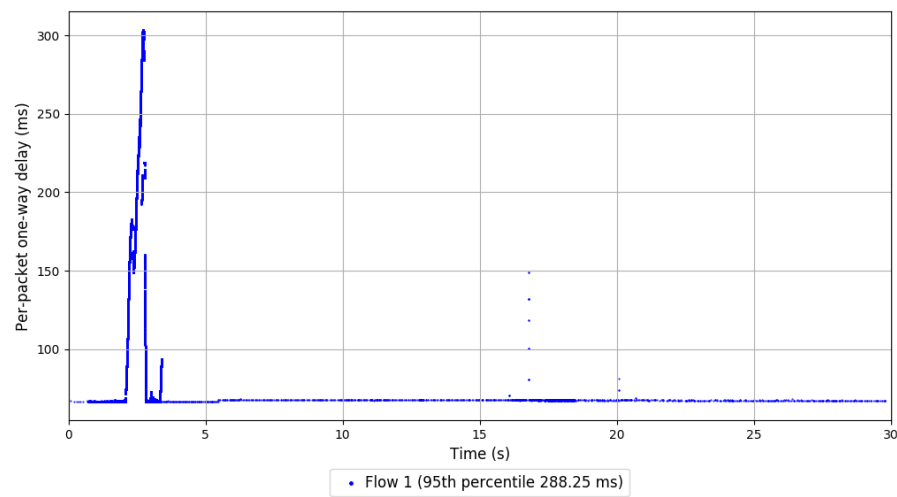
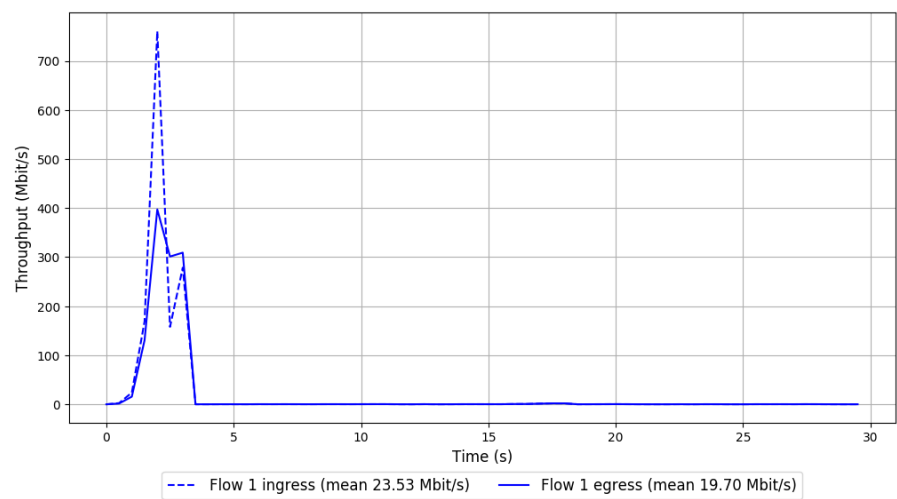
-- Flow 1:

Average throughput: 19.70 Mbit/s

95th percentile per-packet one-way delay: 288.252 ms

Loss rate: 16.84%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-30 12:47:35

End at: 2018-01-30 12:48:05

Below is generated by plot.py at 2018-01-30 16:19:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.14 Mbit/s

95th percentile per-packet one-way delay: 341.968 ms

Loss rate: 17.58%

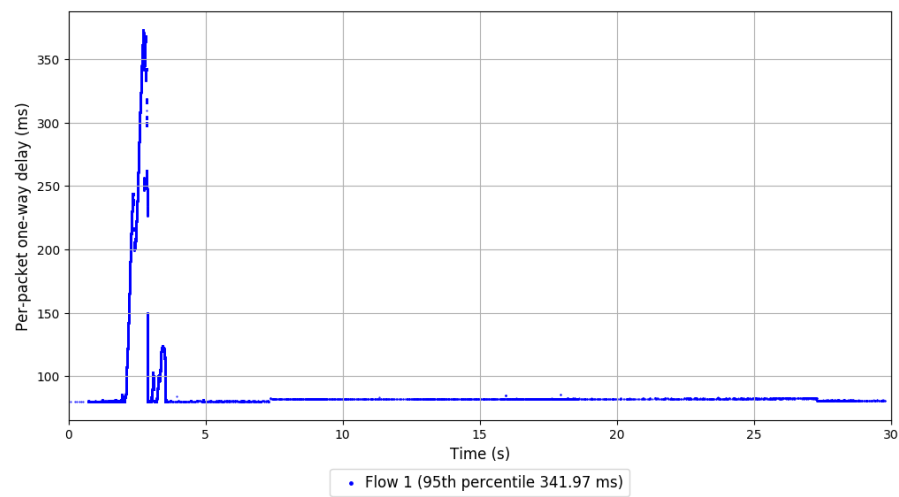
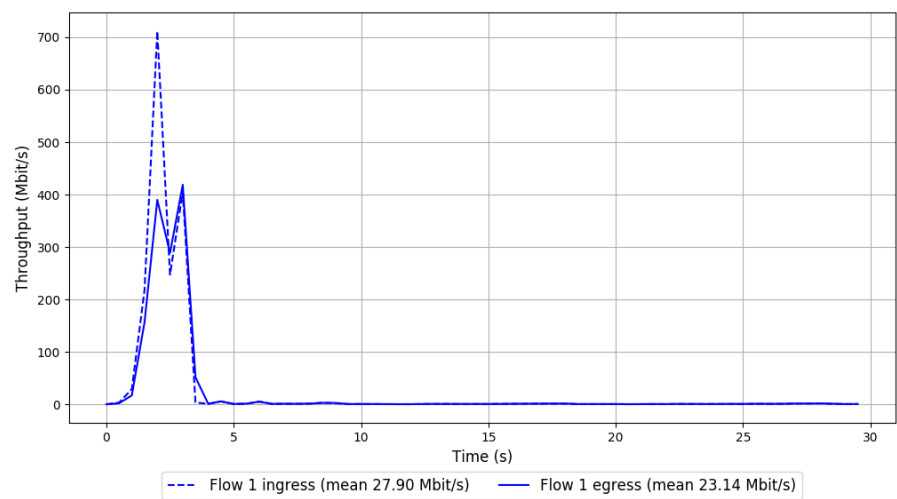
-- Flow 1:

Average throughput: 23.14 Mbit/s

95th percentile per-packet one-way delay: 341.968 ms

Loss rate: 17.58%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-30 13:02:19

End at: 2018-01-30 13:02:49

Below is generated by plot.py at 2018-01-30 16:19:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 287.096 ms

Loss rate: 17.13%

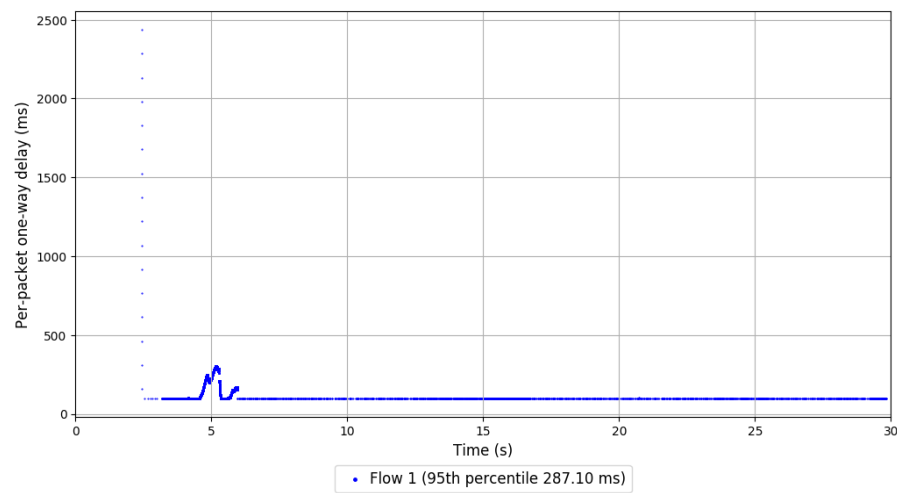
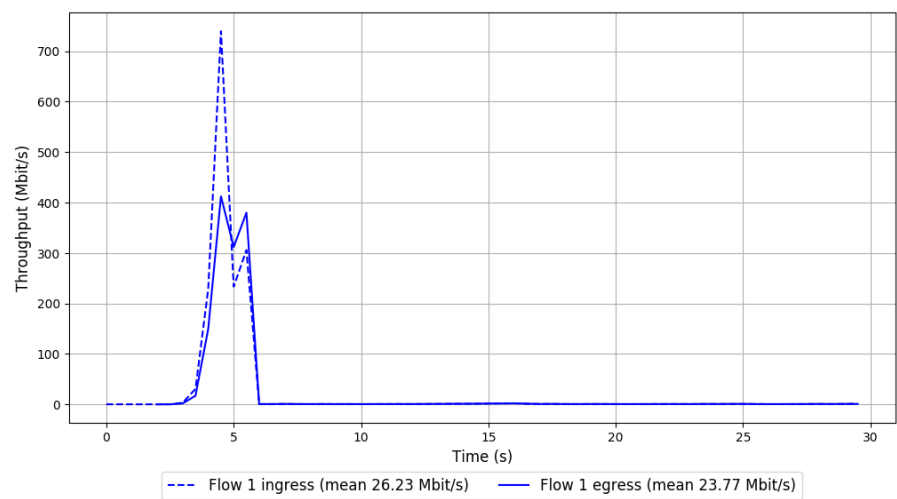
-- Flow 1:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 287.096 ms

Loss rate: 17.13%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-30 13:16:53

End at: 2018-01-30 13:17:23

Below is generated by plot.py at 2018-01-30 16:19:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 304.823 ms

Loss rate: 8.48%

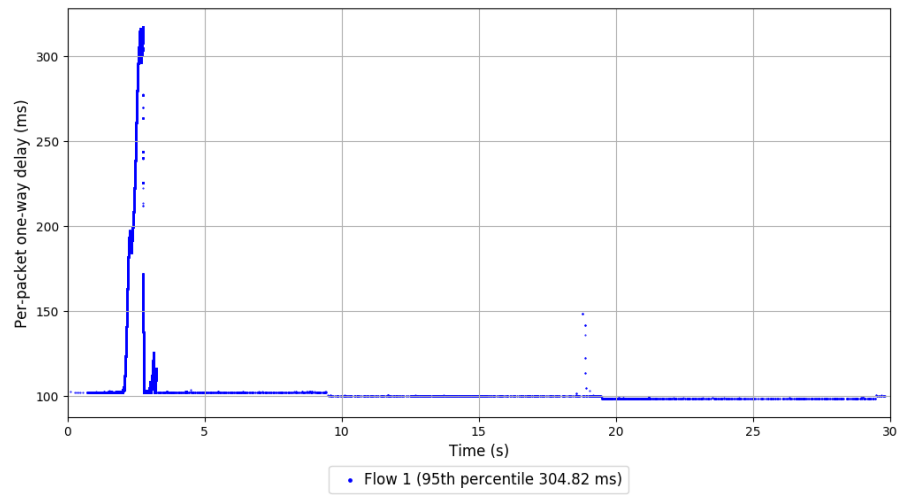
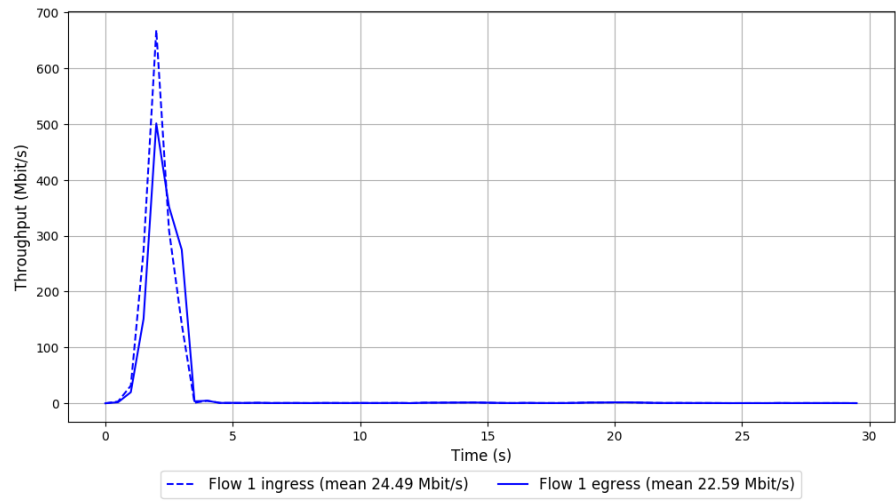
-- Flow 1:

Average throughput: 22.59 Mbit/s

95th percentile per-packet one-way delay: 304.823 ms

Loss rate: 8.48%

Run 10: Report of FillP — Data Link

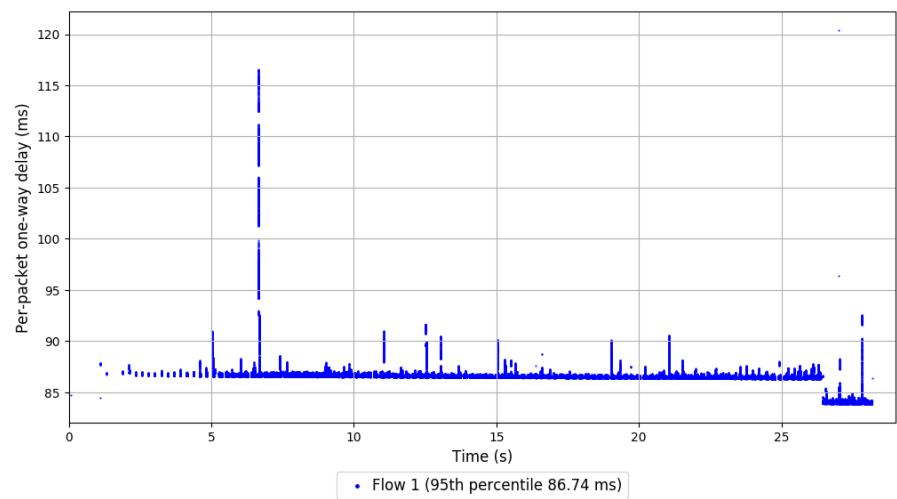
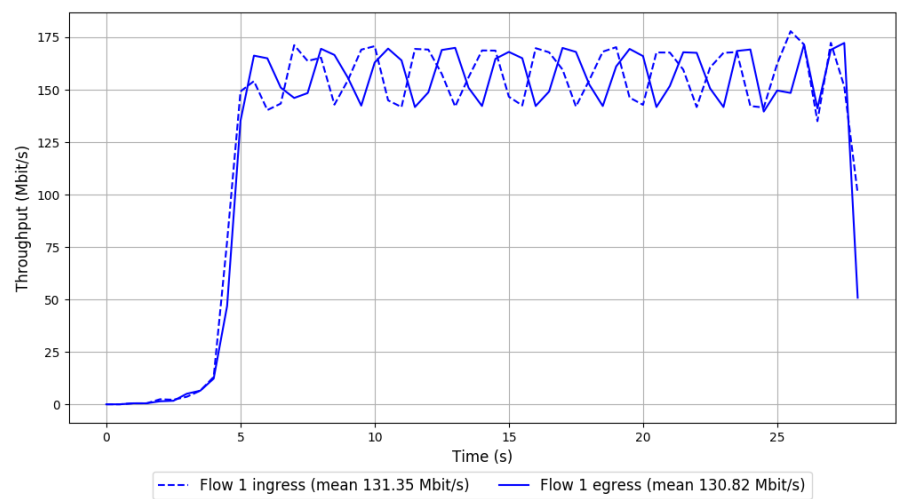


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-30 10:56:24
End at: 2018-01-30 10:56:54

# Below is generated by plot.py at 2018-01-30 16:20:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.82 Mbit/s
95th percentile per-packet one-way delay: 86.739 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 130.82 Mbit/s
95th percentile per-packet one-way delay: 86.739 ms
Loss rate: 1.17%
```

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

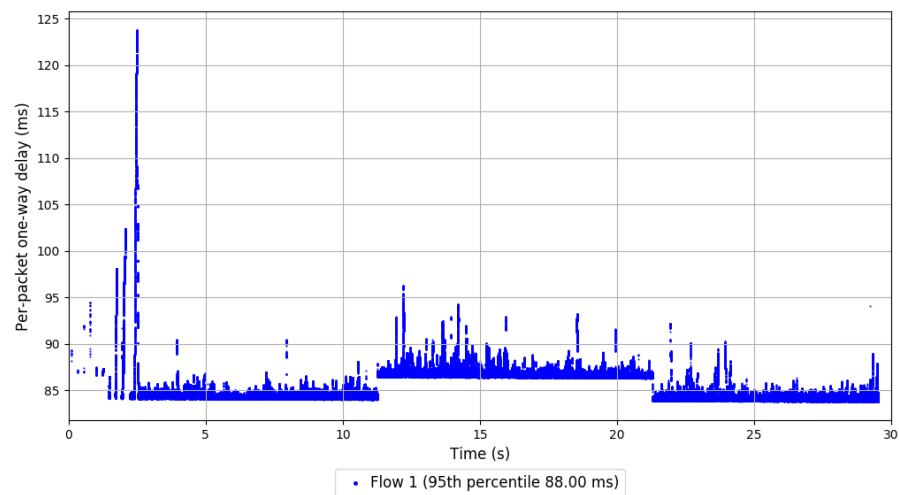
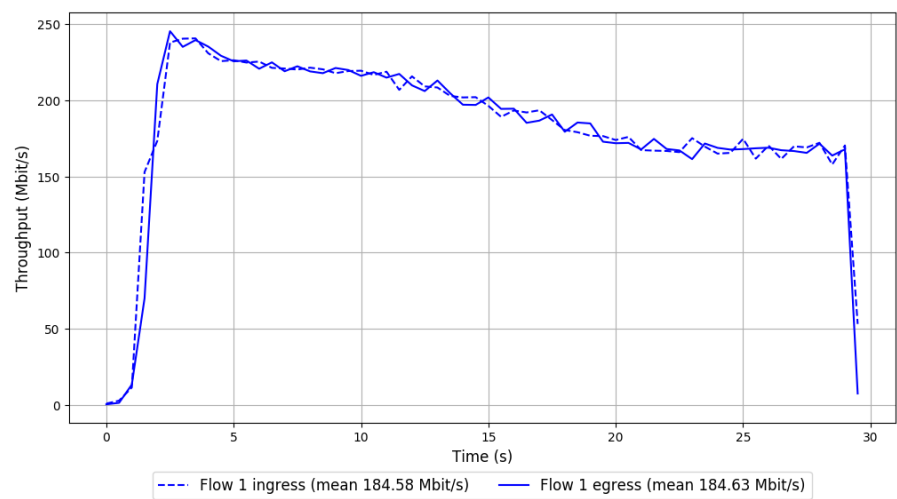


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-30 11:11:00
End at: 2018-01-30 11:11:30

# Below is generated by plot.py at 2018-01-30 16:21:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.63 Mbit/s
95th percentile per-packet one-way delay: 87.995 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 184.63 Mbit/s
95th percentile per-packet one-way delay: 87.995 ms
Loss rate: 0.73%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-30 11:25:36

End at: 2018-01-30 11:26:06

Below is generated by plot.py at 2018-01-30 16:21:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.63 Mbit/s

95th percentile per-packet one-way delay: 83.862 ms

Loss rate: 1.34%

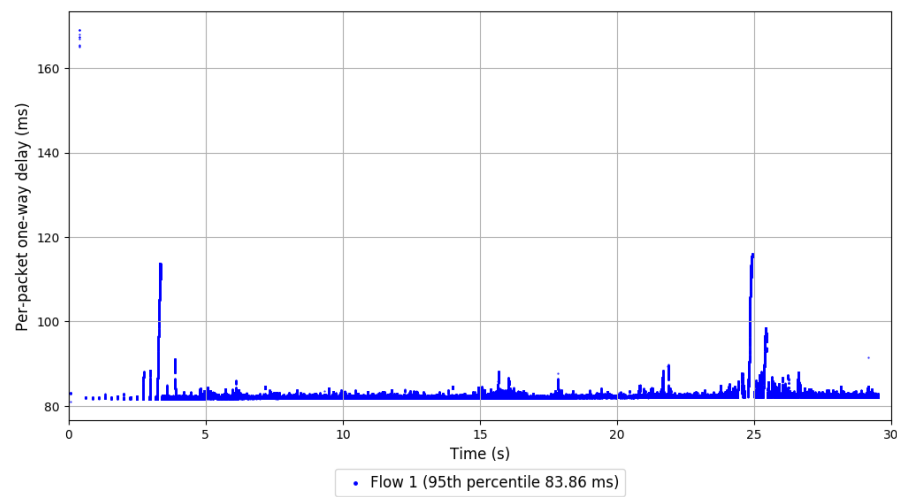
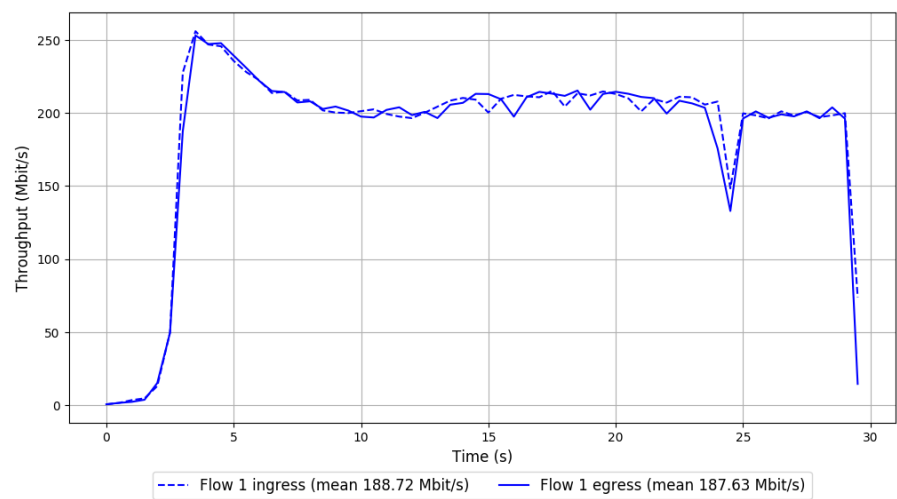
-- Flow 1:

Average throughput: 187.63 Mbit/s

95th percentile per-packet one-way delay: 83.862 ms

Loss rate: 1.34%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-30 11:40:14

End at: 2018-01-30 11:40:44

Below is generated by plot.py at 2018-01-30 16:21:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.96 Mbit/s

95th percentile per-packet one-way delay: 84.494 ms

Loss rate: 0.90%

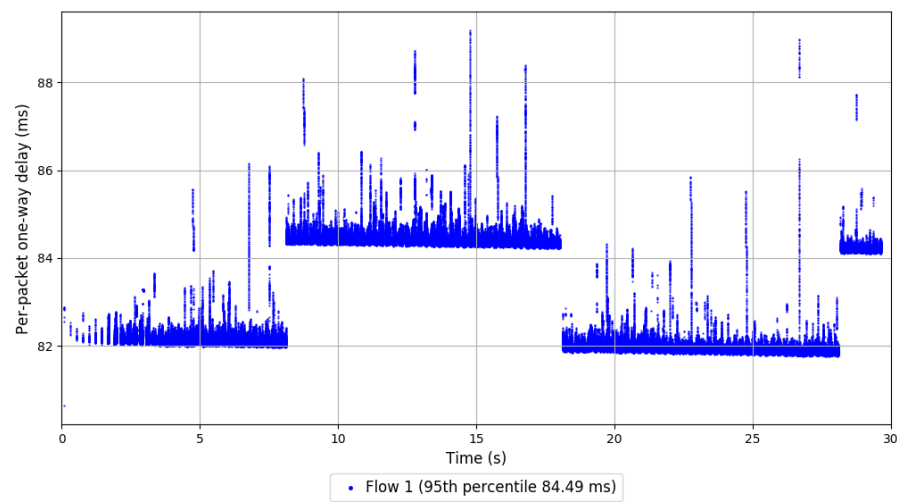
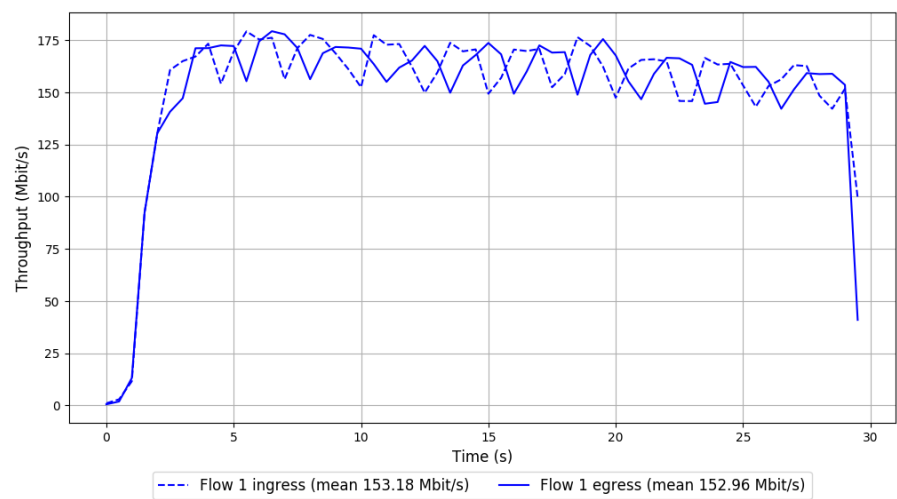
-- Flow 1:

Average throughput: 152.96 Mbit/s

95th percentile per-packet one-way delay: 84.494 ms

Loss rate: 0.90%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-30 11:54:50

End at: 2018-01-30 11:55:20

Below is generated by plot.py at 2018-01-30 16:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.53 Mbit/s

95th percentile per-packet one-way delay: 69.843 ms

Loss rate: 0.91%

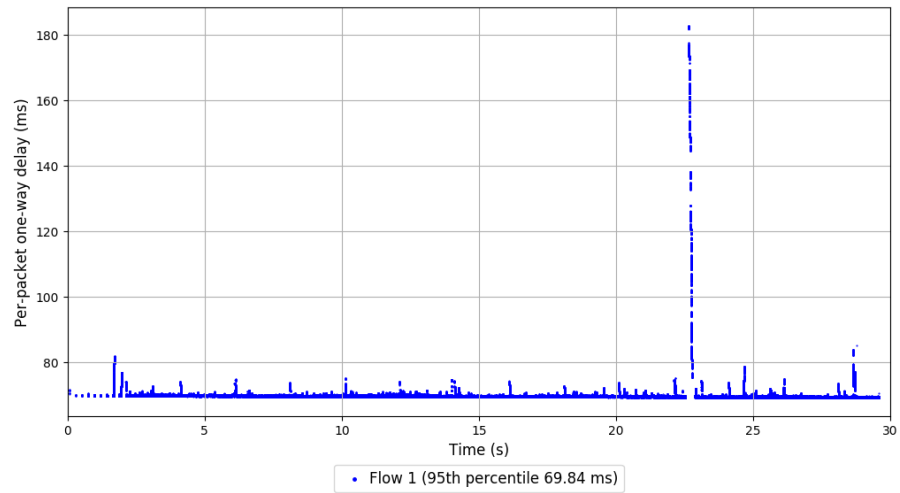
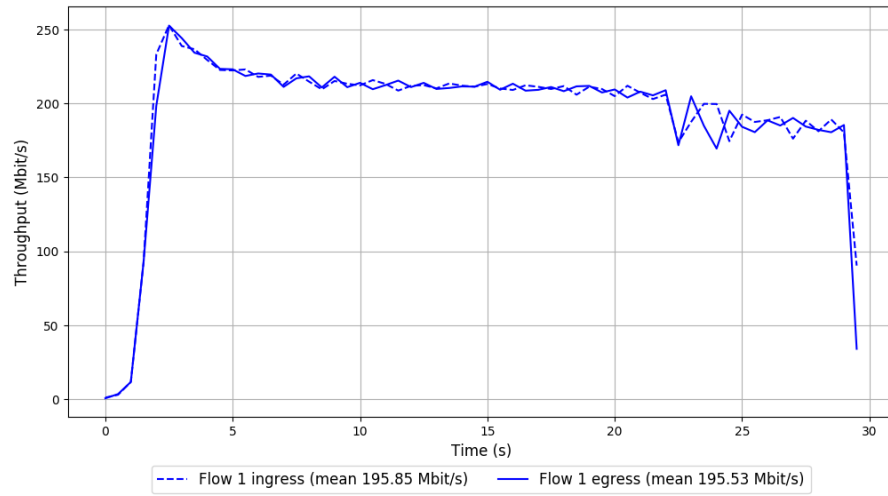
-- Flow 1:

Average throughput: 195.53 Mbit/s

95th percentile per-packet one-way delay: 69.843 ms

Loss rate: 0.91%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-30 12:09:53

End at: 2018-01-30 12:10:23

Below is generated by plot.py at 2018-01-30 16:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.32 Mbit/s

95th percentile per-packet one-way delay: 73.884 ms

Loss rate: 0.98%

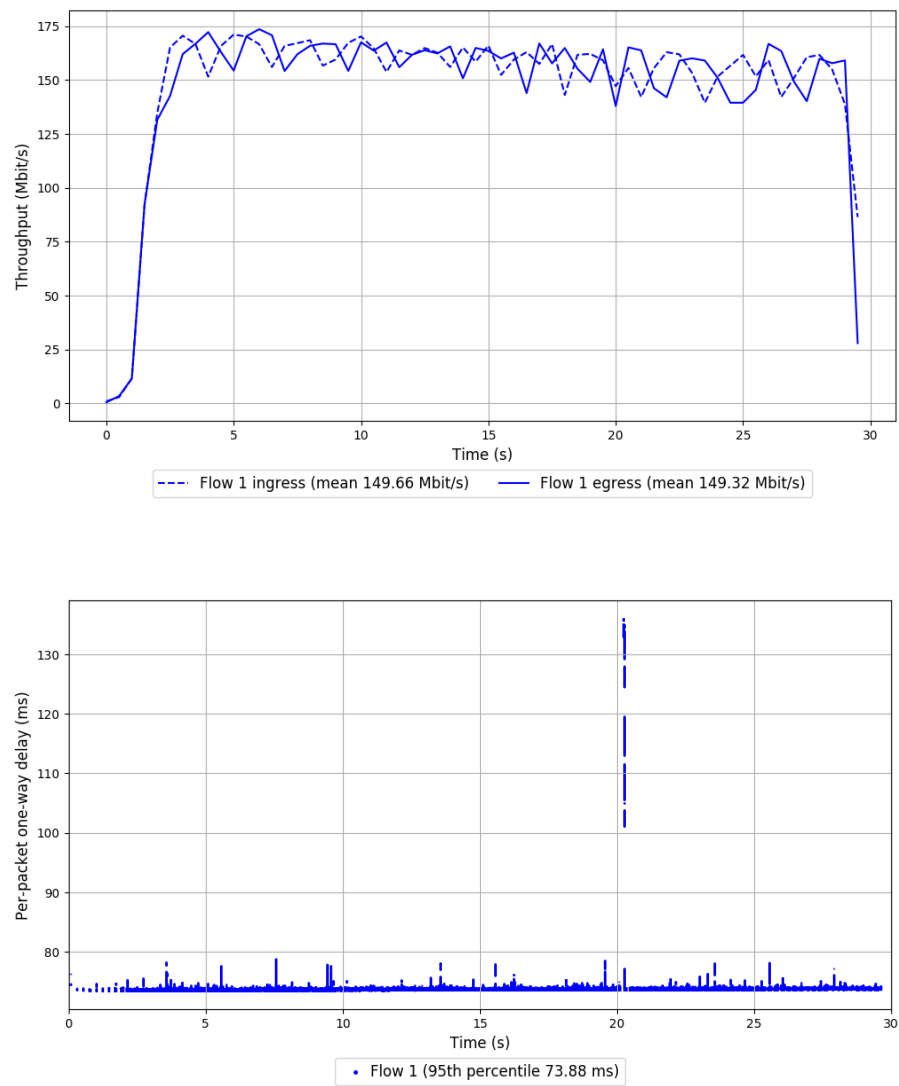
-- Flow 1:

Average throughput: 149.32 Mbit/s

95th percentile per-packet one-way delay: 73.884 ms

Loss rate: 0.98%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-30 12:24:52

End at: 2018-01-30 12:25:22

Below is generated by plot.py at 2018-01-30 16:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.00 Mbit/s

95th percentile per-packet one-way delay: 72.371 ms

Loss rate: 0.80%

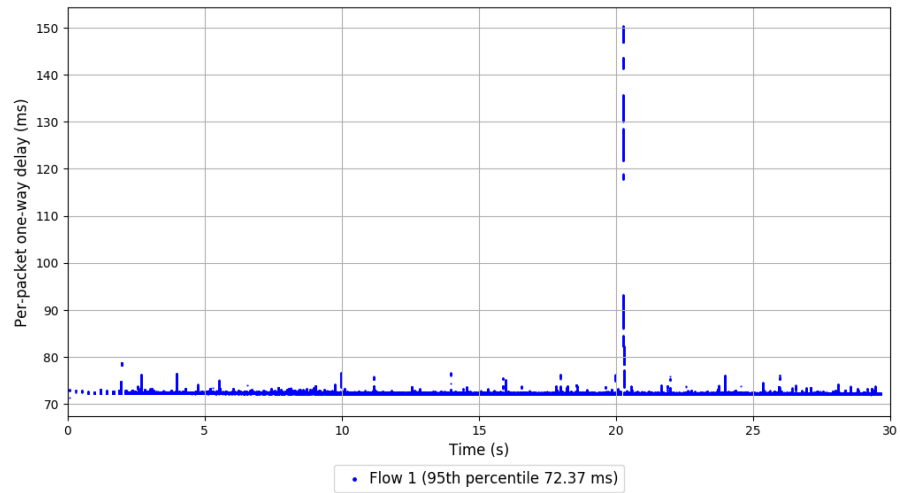
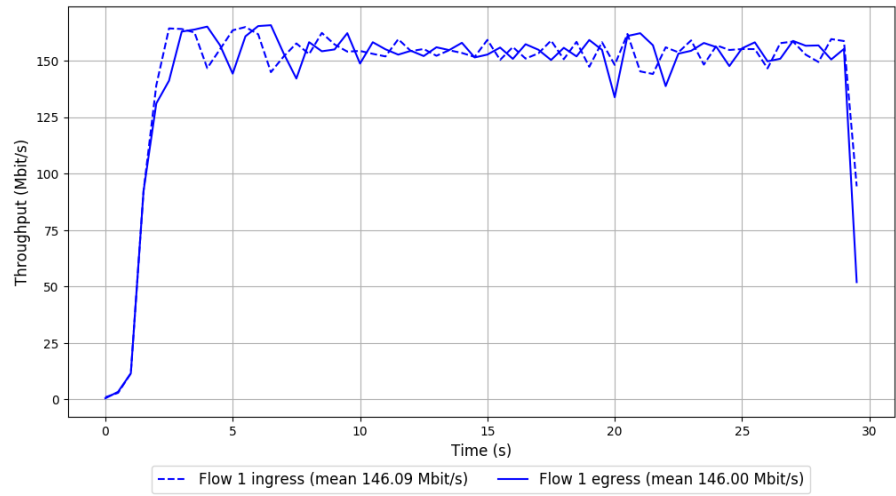
-- Flow 1:

Average throughput: 146.00 Mbit/s

95th percentile per-packet one-way delay: 72.371 ms

Loss rate: 0.80%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-30 12:39:29

End at: 2018-01-30 12:40:00

Below is generated by plot.py at 2018-01-30 16:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.18 Mbit/s

95th percentile per-packet one-way delay: 73.407 ms

Loss rate: 0.77%

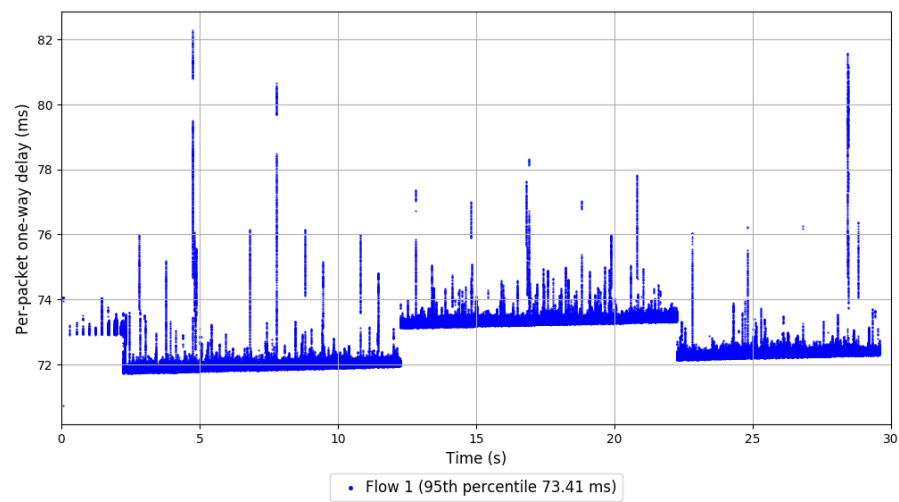
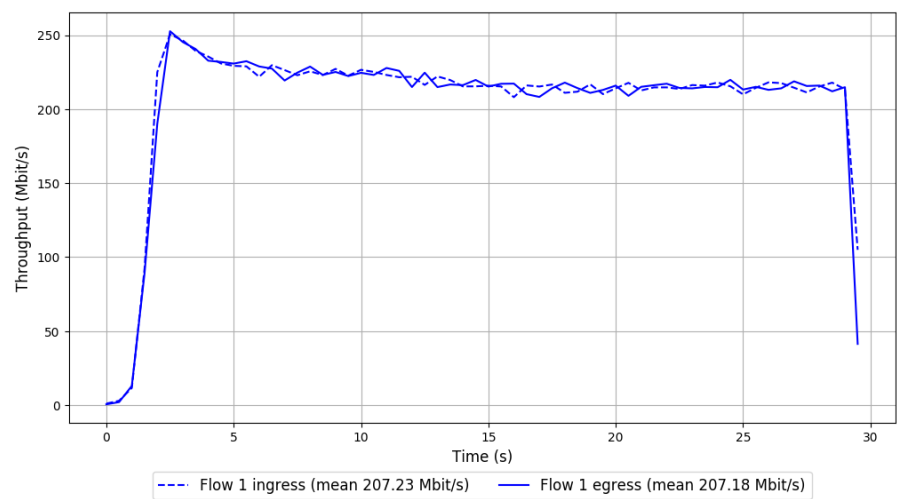
-- Flow 1:

Average throughput: 207.18 Mbit/s

95th percentile per-packet one-way delay: 73.407 ms

Loss rate: 0.77%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-30 12:54:11

End at: 2018-01-30 12:54:41

Below is generated by plot.py at 2018-01-30 16:22:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.83 Mbit/s

95th percentile per-packet one-way delay: 92.745 ms

Loss rate: 0.80%

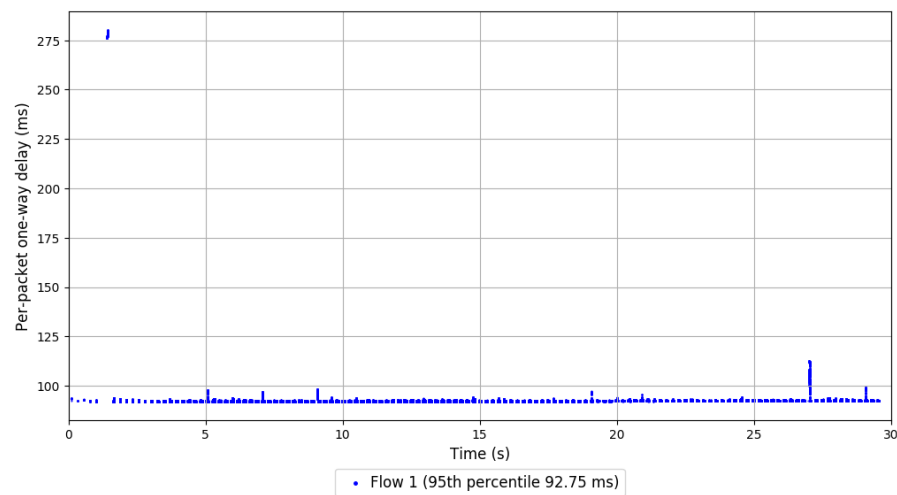
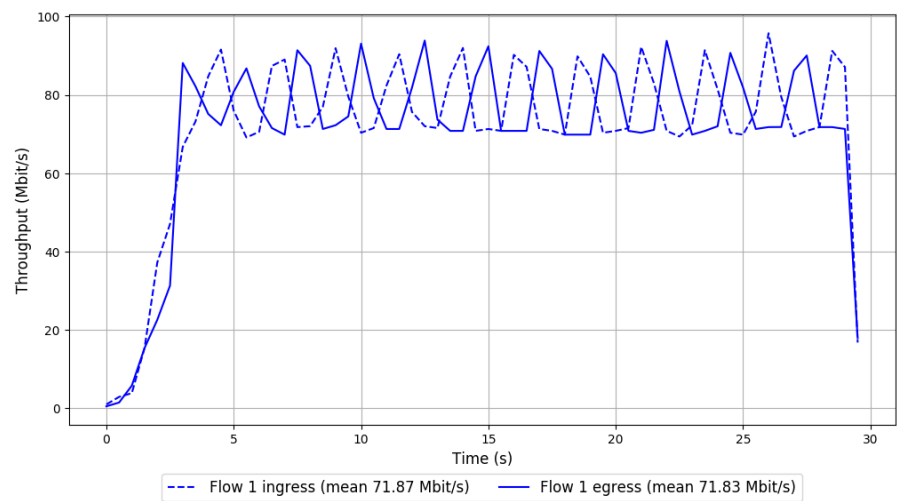
-- Flow 1:

Average throughput: 71.83 Mbit/s

95th percentile per-packet one-way delay: 92.745 ms

Loss rate: 0.80%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-30 13:08:45

End at: 2018-01-30 13:09:15

Below is generated by plot.py at 2018-01-30 16:23:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.36 Mbit/s

95th percentile per-packet one-way delay: 100.697 ms

Loss rate: 0.71%

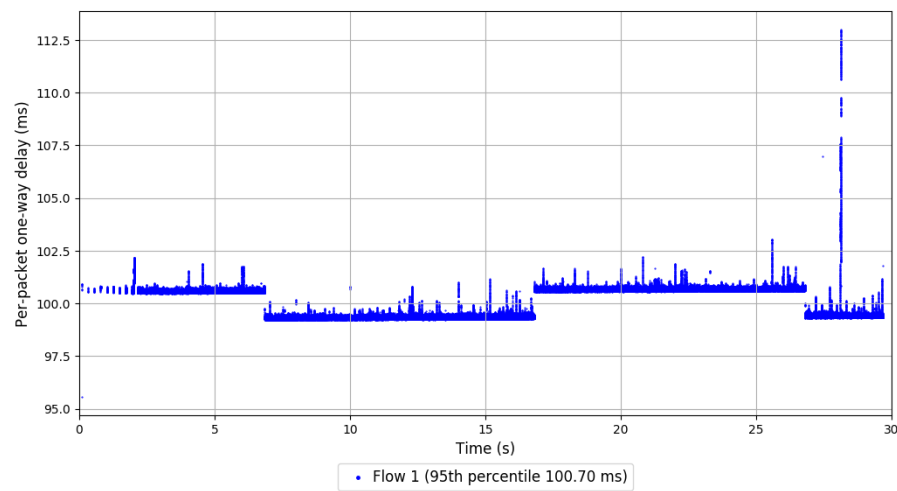
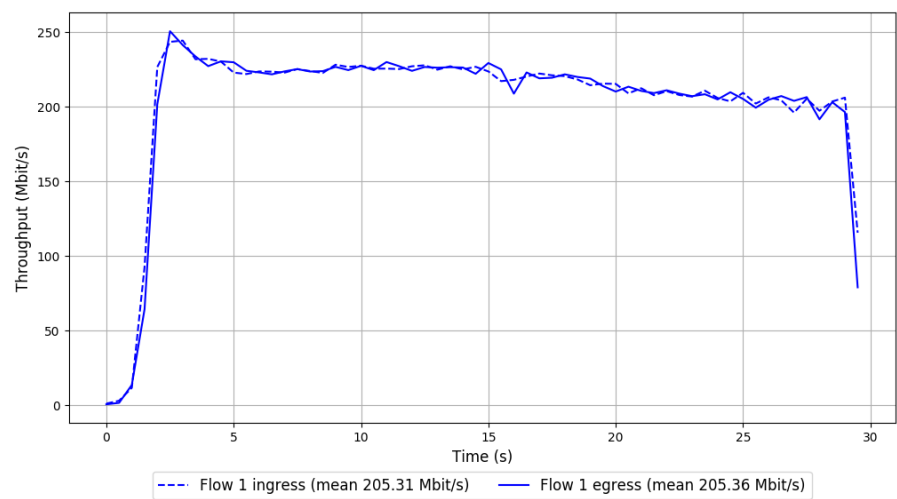
-- Flow 1:

Average throughput: 205.36 Mbit/s

95th percentile per-packet one-way delay: 100.697 ms

Loss rate: 0.71%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-01-30 11:00:54

End at: 2018-01-30 11:01:24

Below is generated by plot.py at 2018-01-30 16:26:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.61 Mbit/s

95th percentile per-packet one-way delay: 93.419 ms

Loss rate: 0.95%

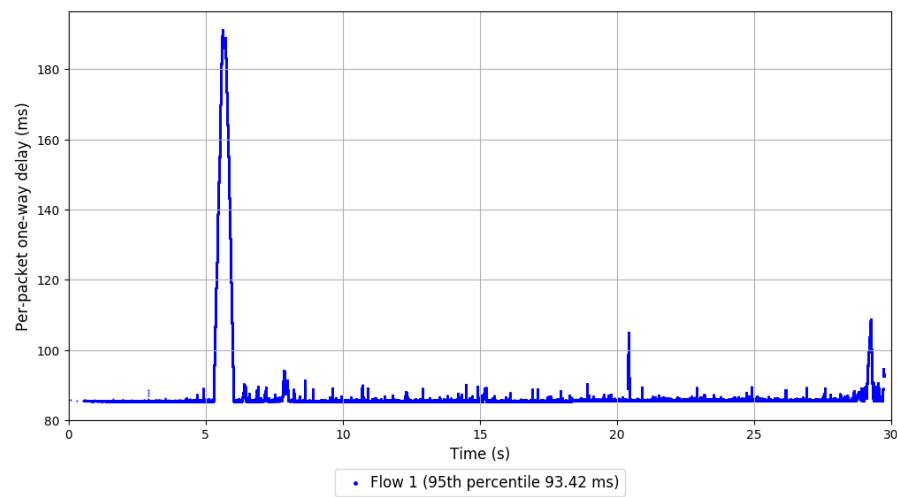
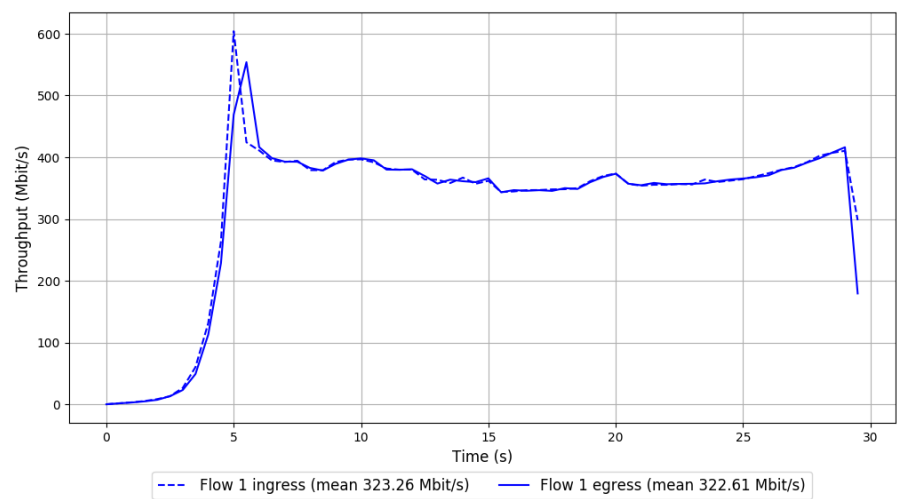
-- Flow 1:

Average throughput: 322.61 Mbit/s

95th percentile per-packet one-way delay: 93.419 ms

Loss rate: 0.95%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-30 11:15:36

End at: 2018-01-30 11:16:06

Below is generated by plot.py at 2018-01-30 16:26:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.20 Mbit/s

95th percentile per-packet one-way delay: 87.141 ms

Loss rate: 0.99%

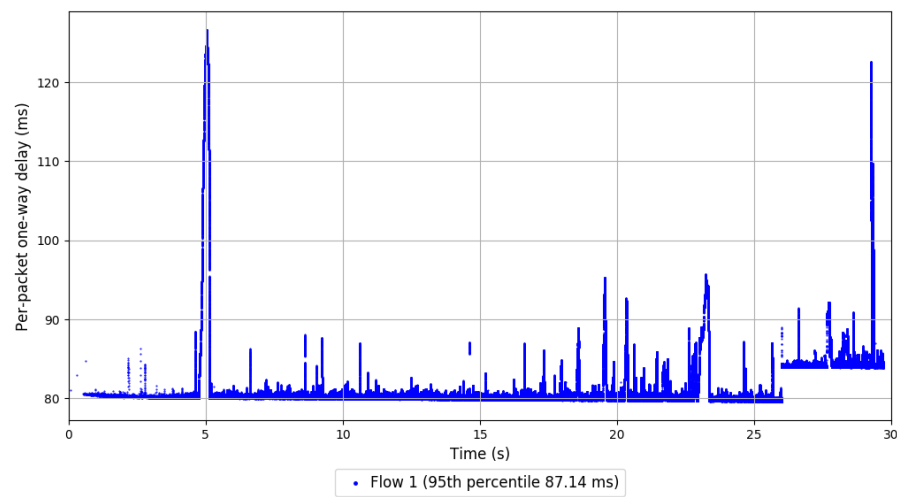
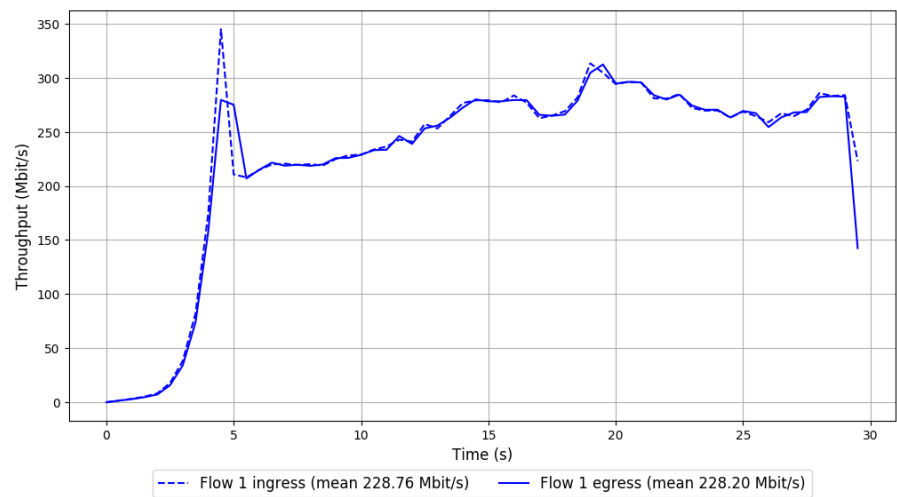
-- Flow 1:

Average throughput: 228.20 Mbit/s

95th percentile per-packet one-way delay: 87.141 ms

Loss rate: 0.99%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-30 11:30:11

End at: 2018-01-30 11:30:41

Below is generated by plot.py at 2018-01-30 16:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.40 Mbit/s

95th percentile per-packet one-way delay: 97.687 ms

Loss rate: 1.44%

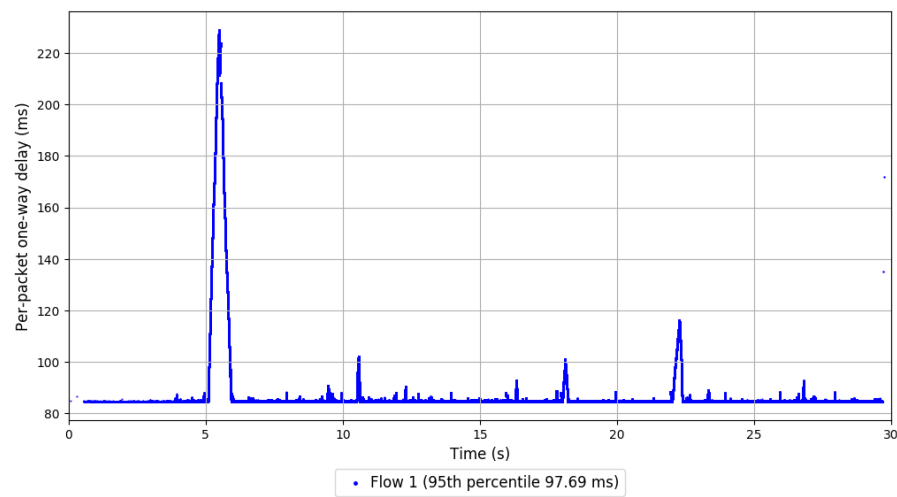
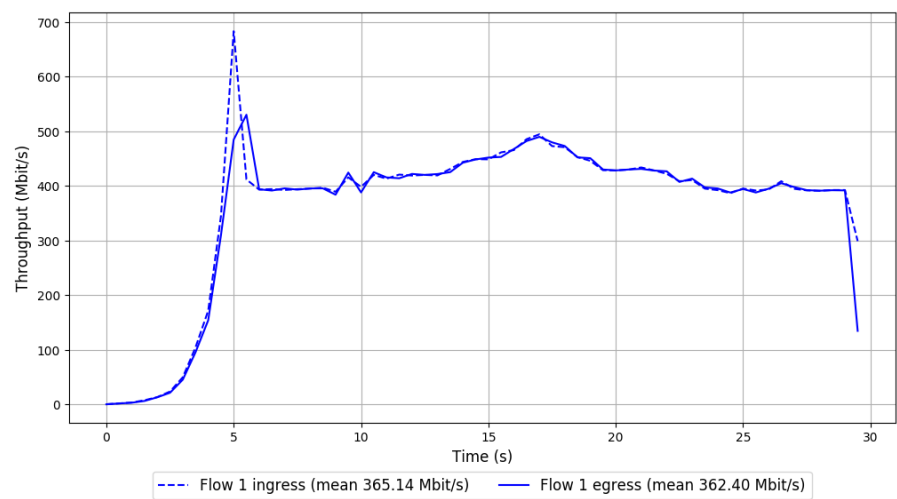
-- Flow 1:

Average throughput: 362.40 Mbit/s

95th percentile per-packet one-way delay: 97.687 ms

Loss rate: 1.44%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-30 11:44:48

End at: 2018-01-30 11:45:18

Below is generated by plot.py at 2018-01-30 16:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.57 Mbit/s

95th percentile per-packet one-way delay: 145.897 ms

Loss rate: 0.76%

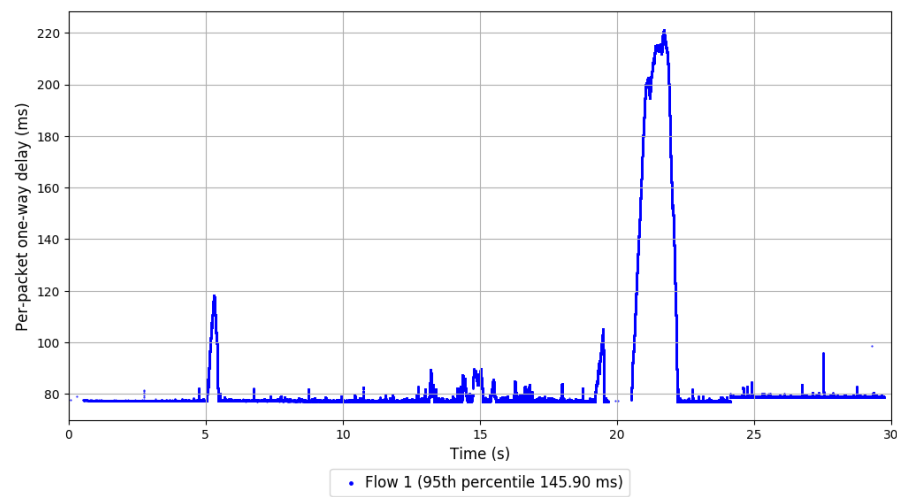
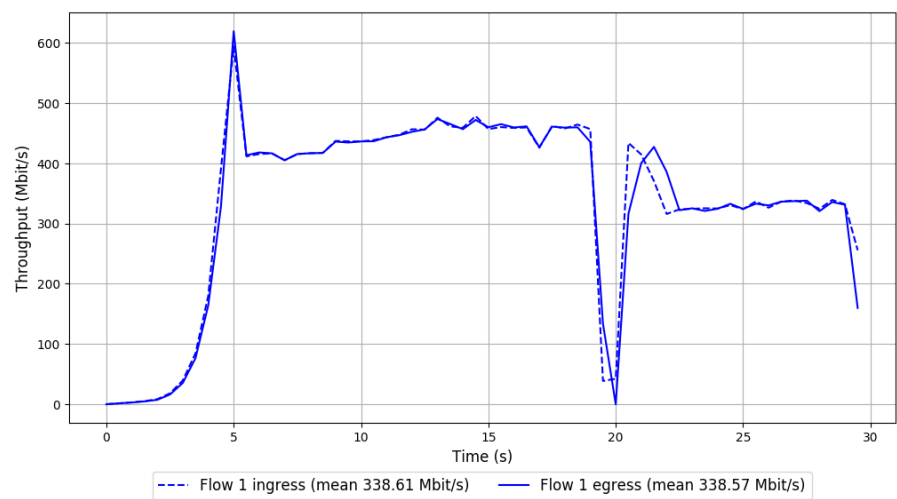
-- Flow 1:

Average throughput: 338.57 Mbit/s

95th percentile per-packet one-way delay: 145.897 ms

Loss rate: 0.76%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-30 11:59:23

End at: 2018-01-30 11:59:53

Below is generated by plot.py at 2018-01-30 16:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.24 Mbit/s

95th percentile per-packet one-way delay: 67.884 ms

Loss rate: 0.84%

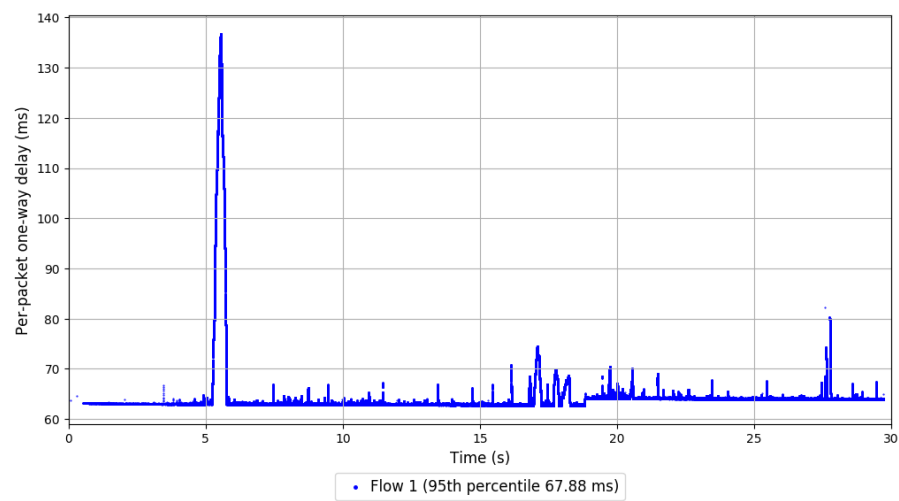
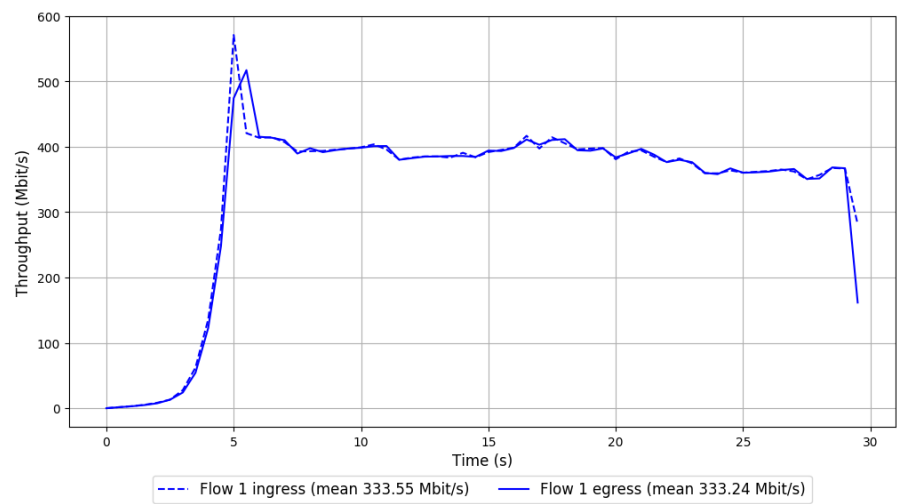
-- Flow 1:

Average throughput: 333.24 Mbit/s

95th percentile per-packet one-way delay: 67.884 ms

Loss rate: 0.84%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-30 12:14:23

End at: 2018-01-30 12:14:53

Below is generated by plot.py at 2018-01-30 16:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.54 Mbit/s

95th percentile per-packet one-way delay: 84.008 ms

Loss rate: 2.27%

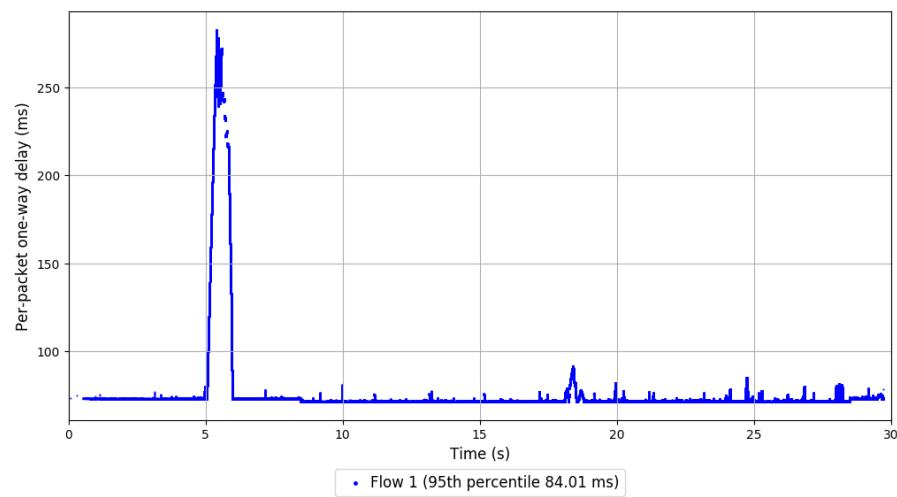
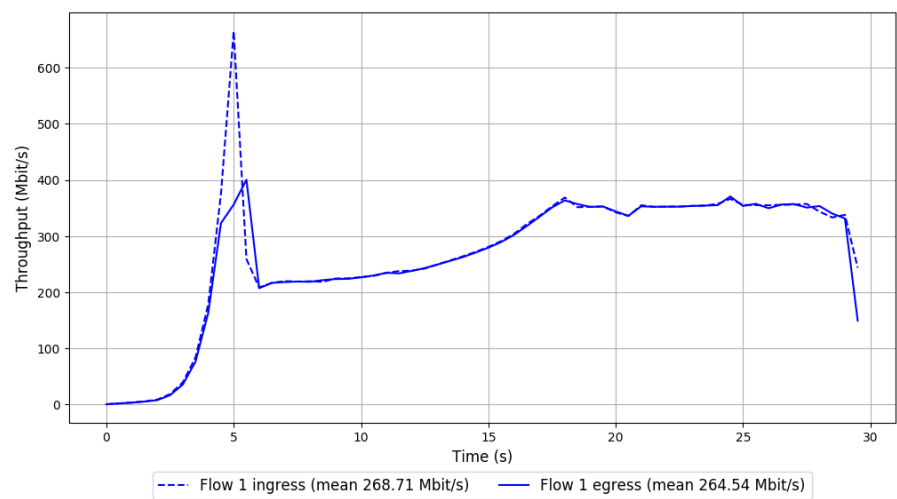
-- Flow 1:

Average throughput: 264.54 Mbit/s

95th percentile per-packet one-way delay: 84.008 ms

Loss rate: 2.27%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-30 12:29:20

End at: 2018-01-30 12:29:50

Below is generated by plot.py at 2018-01-30 16:28:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.02 Mbit/s

95th percentile per-packet one-way delay: 71.400 ms

Loss rate: 0.93%

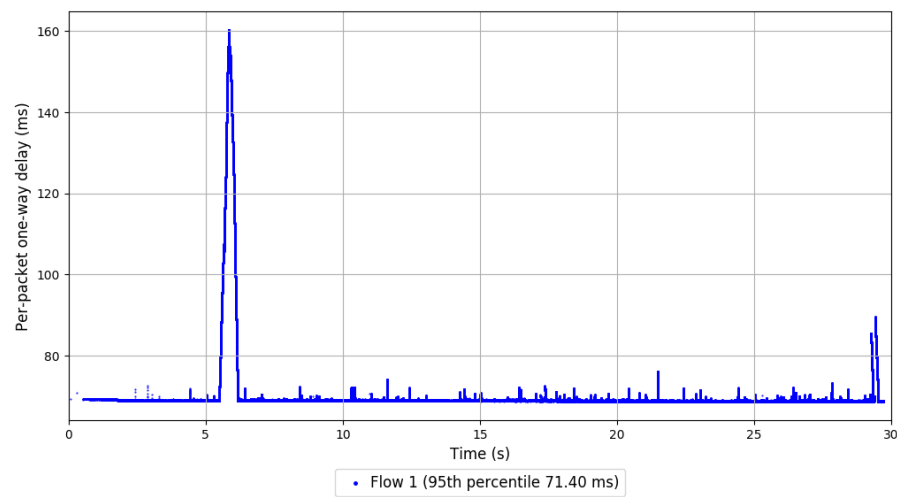
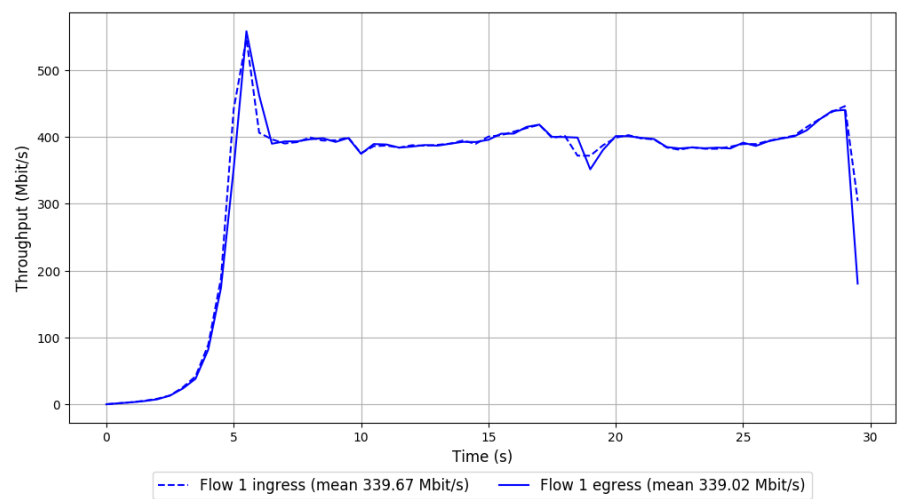
-- Flow 1:

Average throughput: 339.02 Mbit/s

95th percentile per-packet one-way delay: 71.400 ms

Loss rate: 0.93%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-30 12:44:03

End at: 2018-01-30 12:44:33

Below is generated by plot.py at 2018-01-30 16:28:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.45 Mbit/s

95th percentile per-packet one-way delay: 166.653 ms

Loss rate: 0.84%

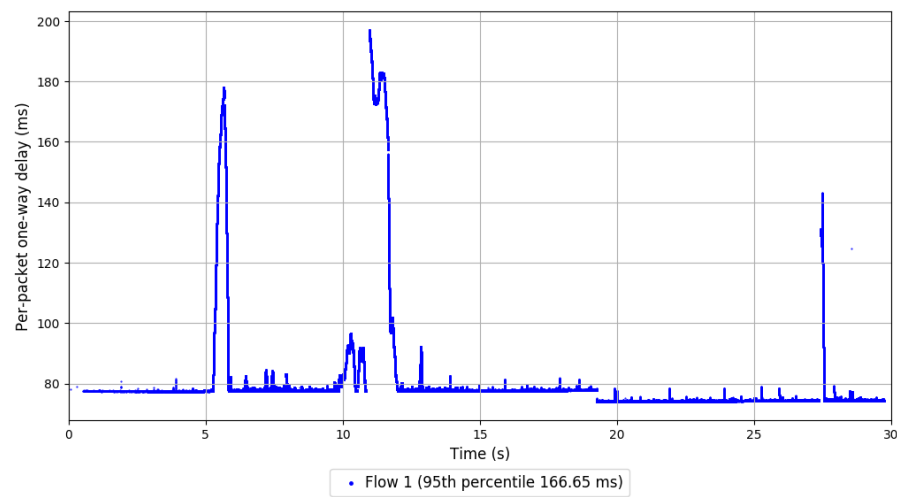
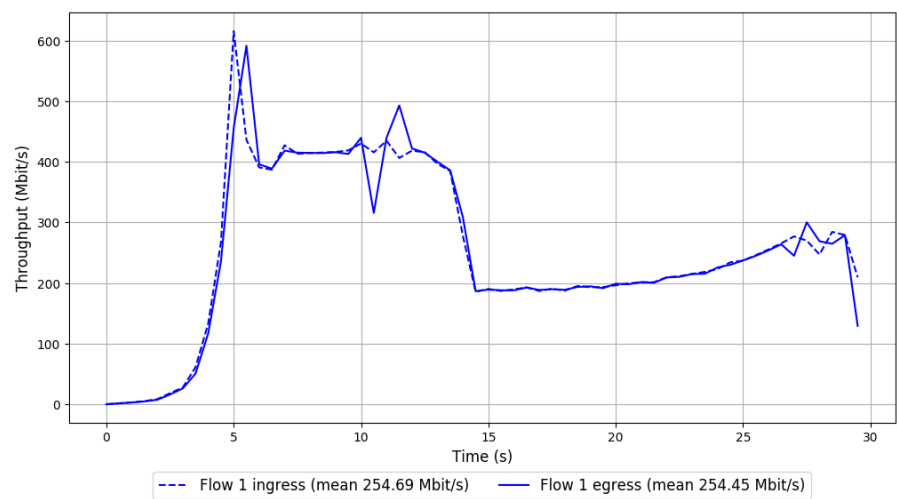
-- Flow 1:

Average throughput: 254.45 Mbit/s

95th percentile per-packet one-way delay: 166.653 ms

Loss rate: 0.84%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-30 12:58:35

End at: 2018-01-30 12:59:05

Below is generated by plot.py at 2018-01-30 16:30:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.10 Mbit/s

95th percentile per-packet one-way delay: 97.708 ms

Loss rate: 0.50%

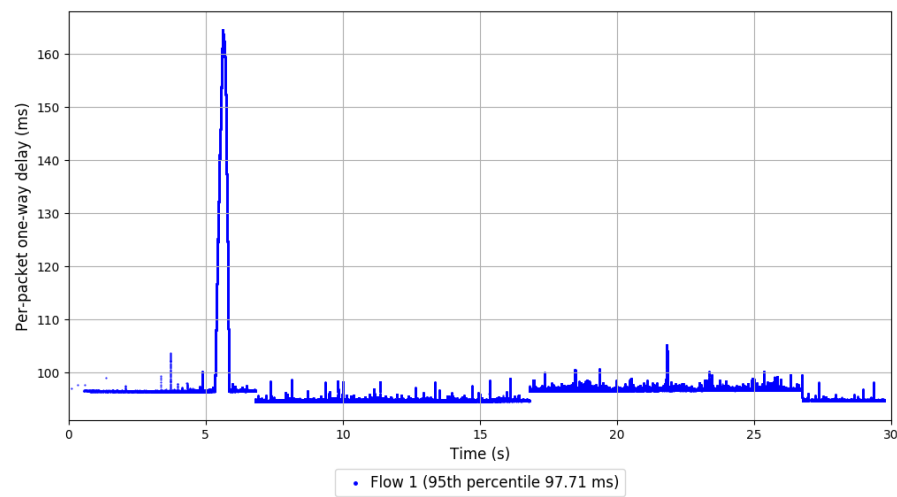
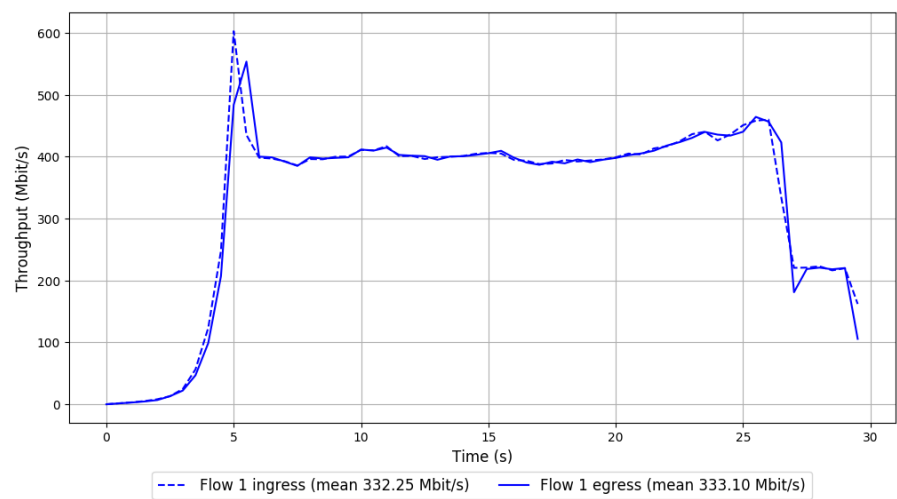
-- Flow 1:

Average throughput: 333.10 Mbit/s

95th percentile per-packet one-way delay: 97.708 ms

Loss rate: 0.50%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-30 13:13:15

End at: 2018-01-30 13:13:45

Below is generated by plot.py at 2018-01-30 16:31:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.00 Mbit/s

95th percentile per-packet one-way delay: 101.760 ms

Loss rate: 0.87%

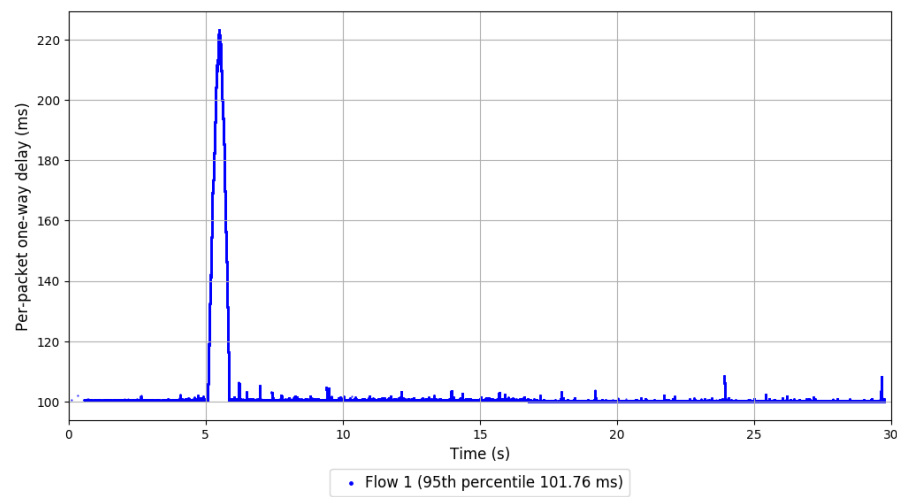
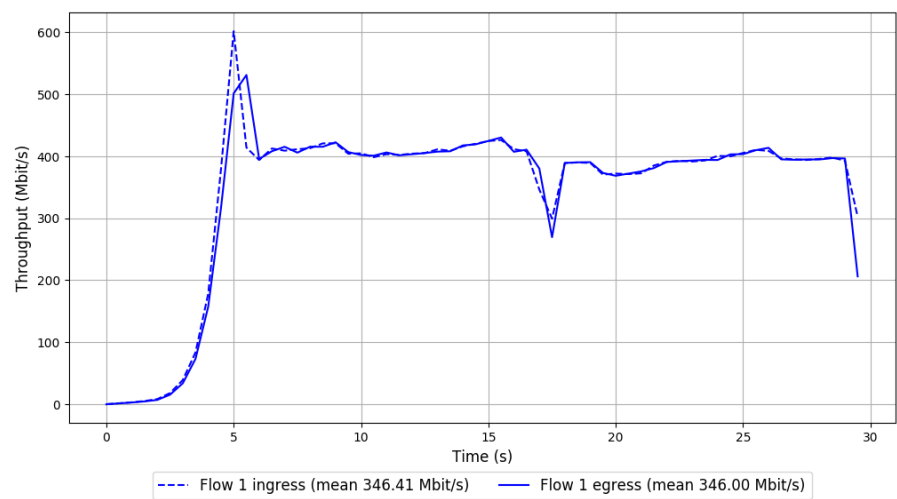
-- Flow 1:

Average throughput: 346.00 Mbit/s

95th percentile per-packet one-way delay: 101.760 ms

Loss rate: 0.87%

Run 10: Report of Vivace-latency — Data Link

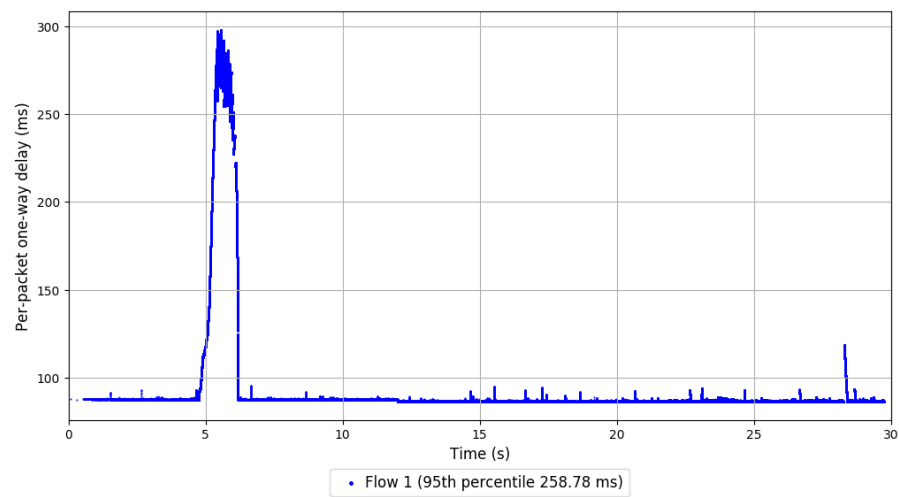
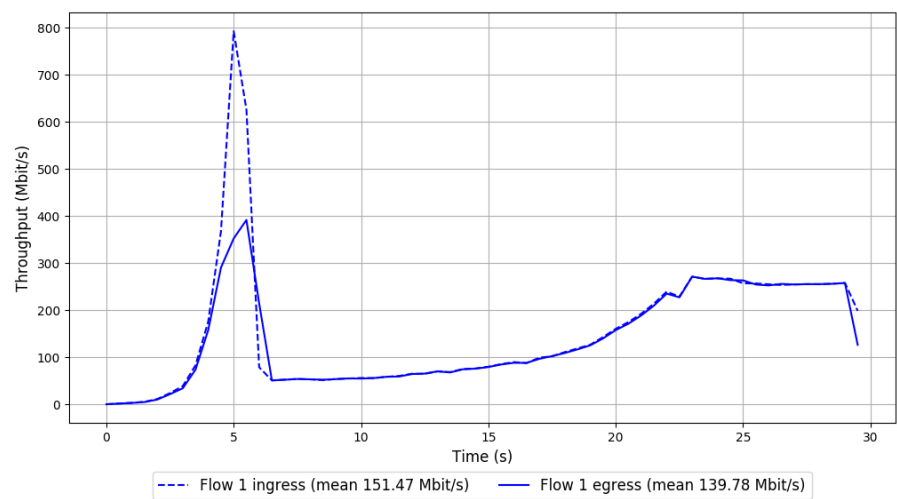


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-30 11:08:30
End at: 2018-01-30 11:09:00

# Below is generated by plot.py at 2018-01-30 16:31:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.78 Mbit/s
95th percentile per-packet one-way delay: 258.779 ms
Loss rate: 8.41%
-- Flow 1:
Average throughput: 139.78 Mbit/s
95th percentile per-packet one-way delay: 258.779 ms
Loss rate: 8.41%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-30 11:22:57

End at: 2018-01-30 11:23:27

Below is generated by plot.py at 2018-01-30 16:31:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.17 Mbit/s

95th percentile per-packet one-way delay: 260.815 ms

Loss rate: 8.32%

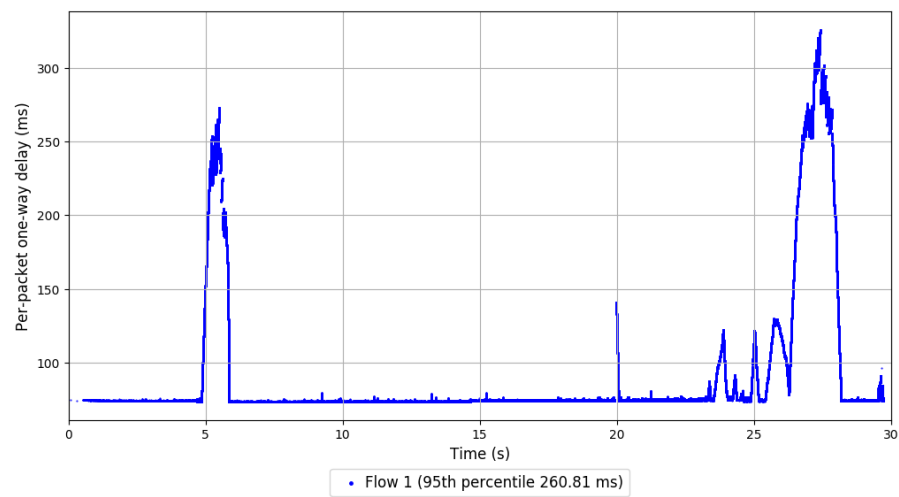
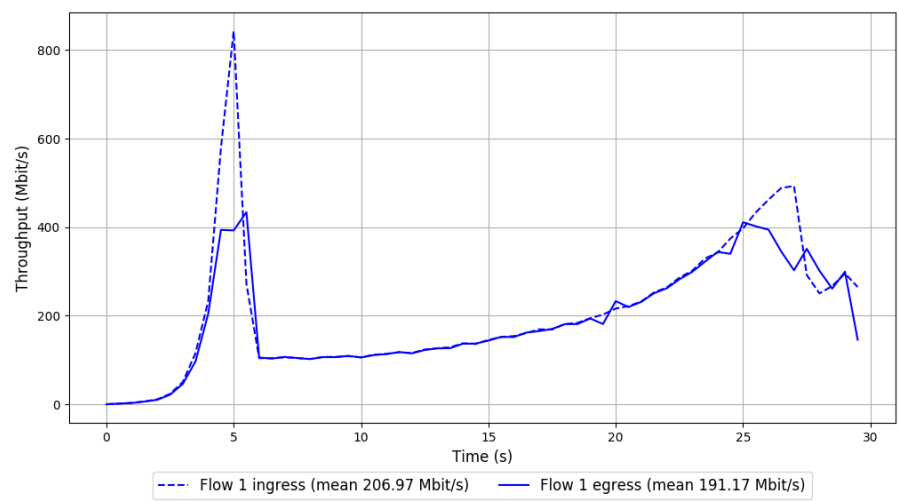
-- Flow 1:

Average throughput: 191.17 Mbit/s

95th percentile per-packet one-way delay: 260.815 ms

Loss rate: 8.32%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-30 11:37:28

End at: 2018-01-30 11:37:58

Below is generated by plot.py at 2018-01-30 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.08 Mbit/s

95th percentile per-packet one-way delay: 204.396 ms

Loss rate: 3.24%

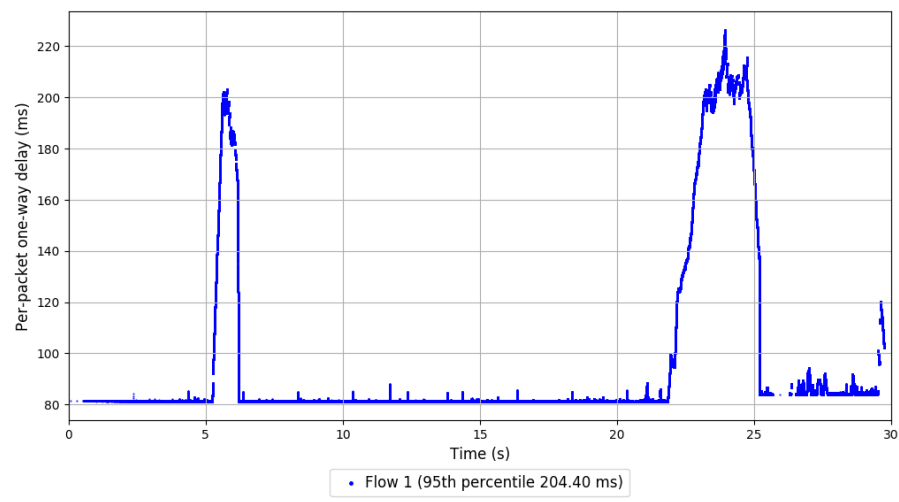
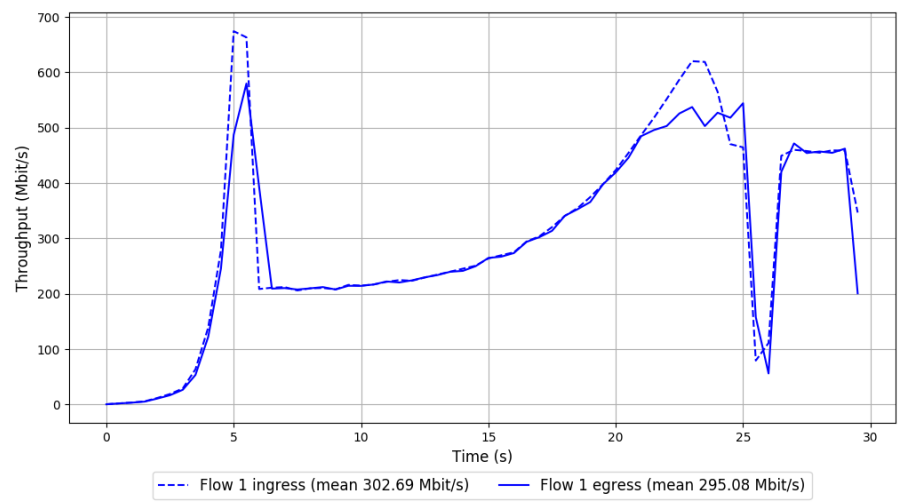
-- Flow 1:

Average throughput: 295.08 Mbit/s

95th percentile per-packet one-way delay: 204.396 ms

Loss rate: 3.24%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-30 11:52:06

End at: 2018-01-30 11:52:36

Below is generated by plot.py at 2018-01-30 16:31:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.84 Mbit/s

95th percentile per-packet one-way delay: 183.622 ms

Loss rate: 2.20%

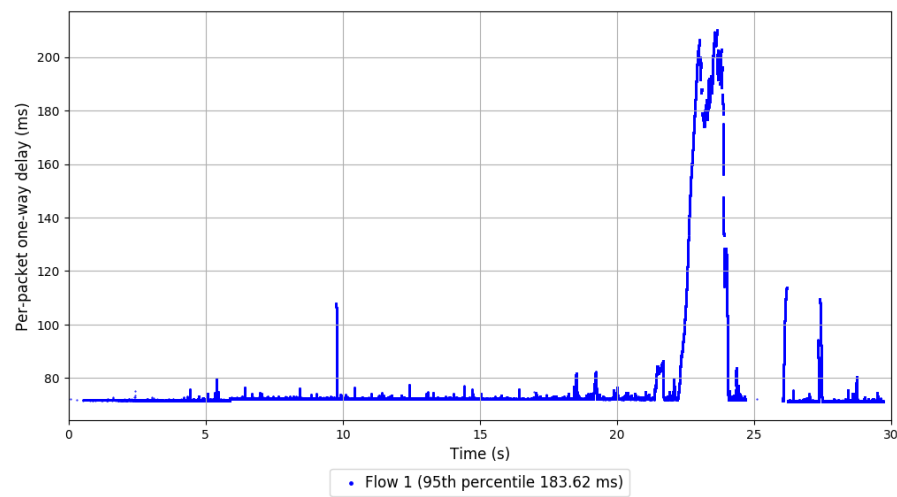
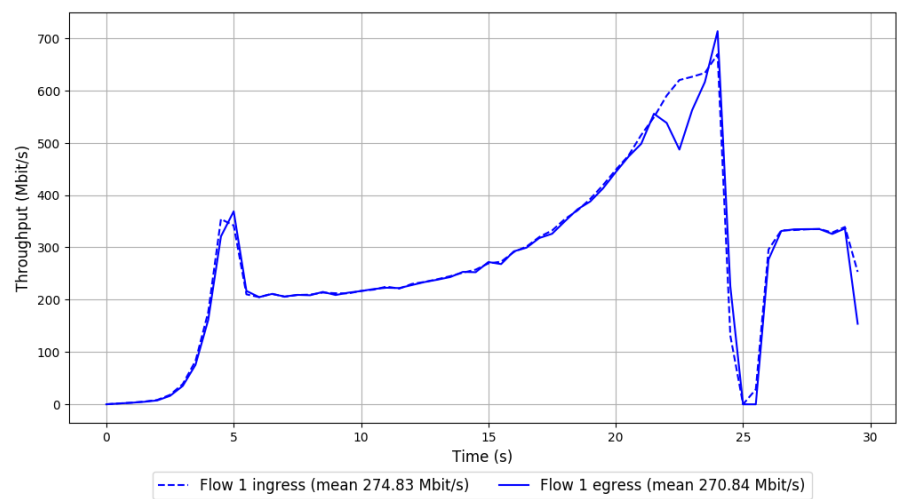
-- Flow 1:

Average throughput: 270.84 Mbit/s

95th percentile per-packet one-way delay: 183.622 ms

Loss rate: 2.20%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-30 12:07:02

End at: 2018-01-30 12:07:32

Below is generated by plot.py at 2018-01-30 16:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.38 Mbit/s

95th percentile per-packet one-way delay: 209.856 ms

Loss rate: 3.09%

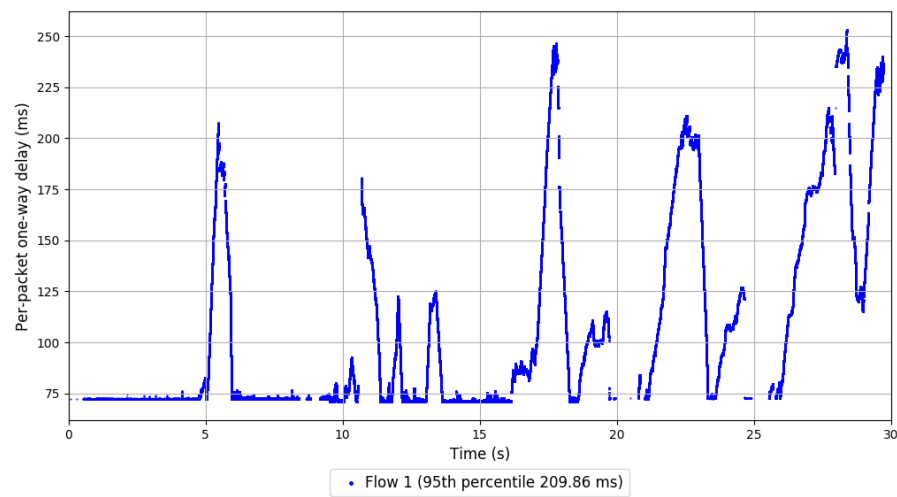
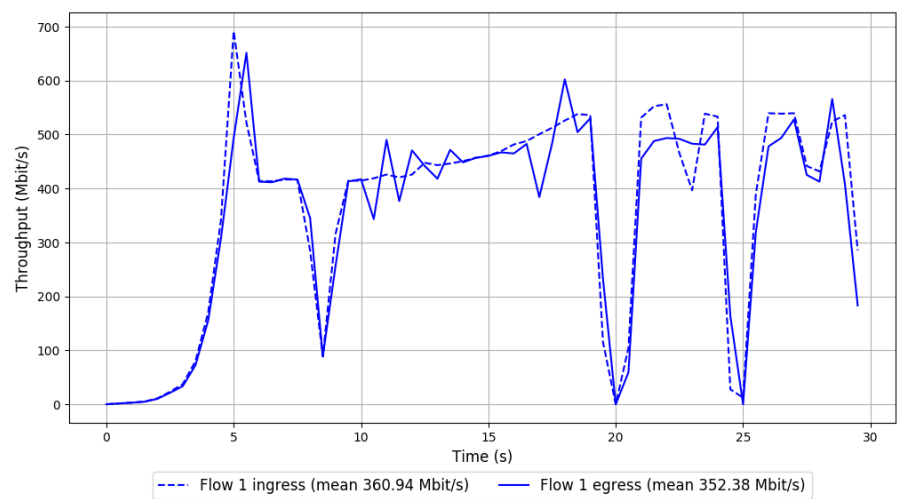
-- Flow 1:

Average throughput: 352.38 Mbit/s

95th percentile per-packet one-way delay: 209.856 ms

Loss rate: 3.09%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-30 12:22:11

End at: 2018-01-30 12:22:41

Below is generated by plot.py at 2018-01-30 16:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.37 Mbit/s

95th percentile per-packet one-way delay: 169.185 ms

Loss rate: 3.96%

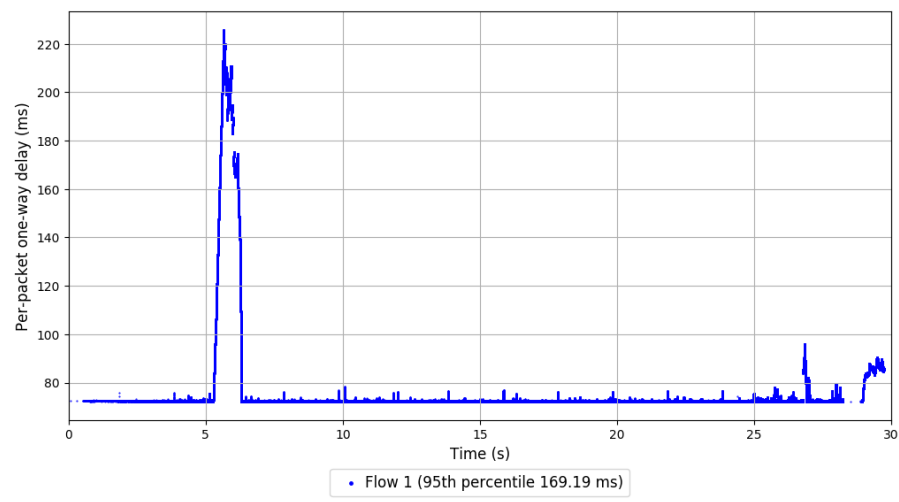
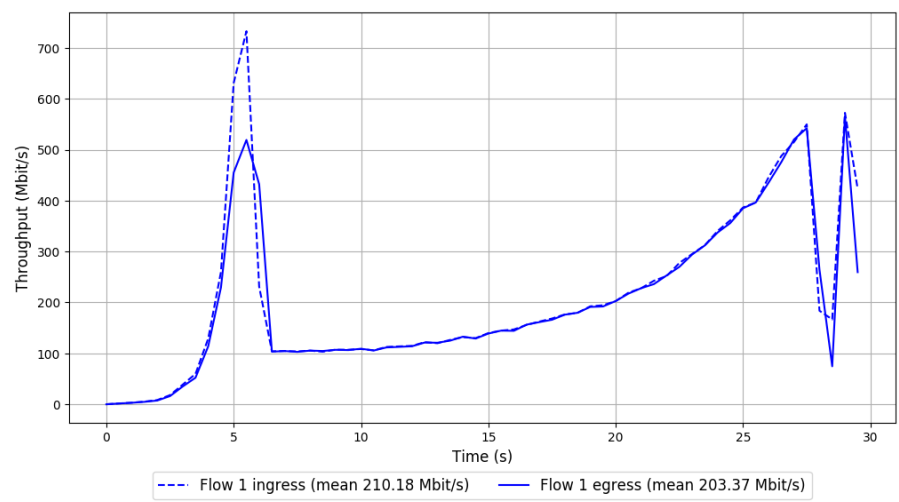
-- Flow 1:

Average throughput: 203.37 Mbit/s

95th percentile per-packet one-way delay: 169.185 ms

Loss rate: 3.96%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-30 12:36:45

End at: 2018-01-30 12:37:15

Below is generated by plot.py at 2018-01-30 16:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.07 Mbit/s

95th percentile per-packet one-way delay: 175.732 ms

Loss rate: 2.31%

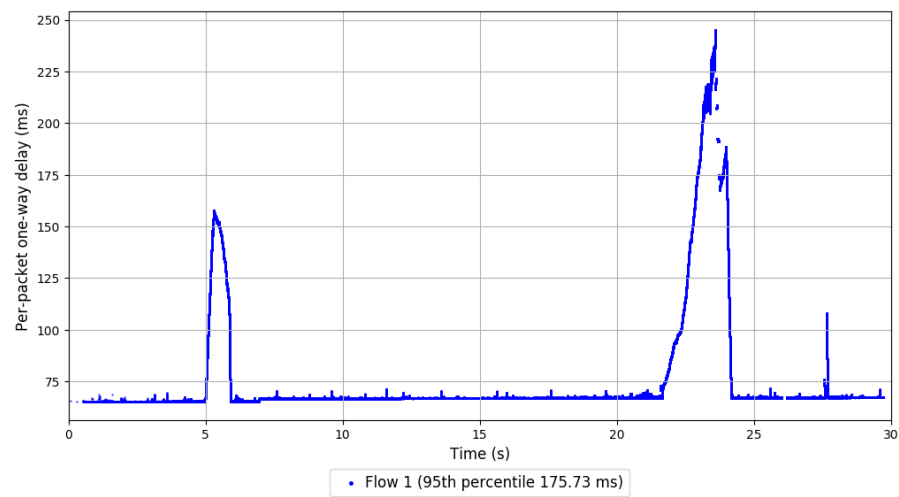
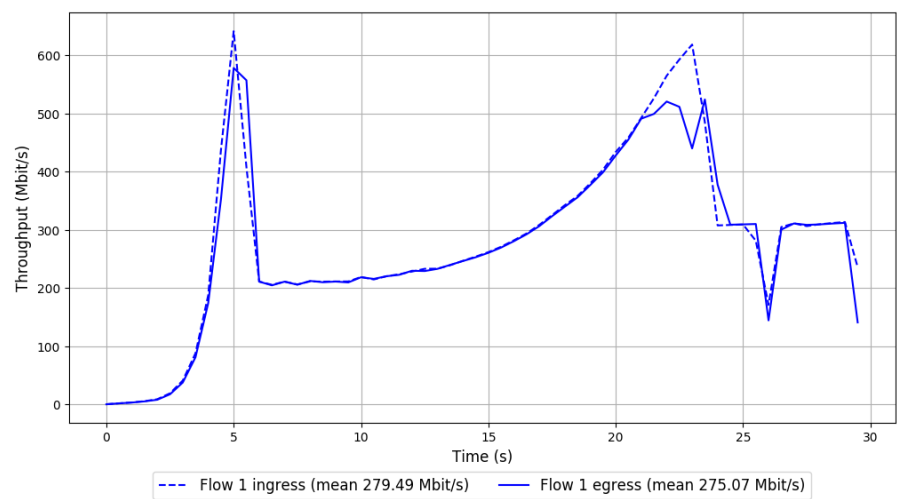
-- Flow 1:

Average throughput: 275.07 Mbit/s

95th percentile per-packet one-way delay: 175.732 ms

Loss rate: 2.31%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-30 12:51:24

End at: 2018-01-30 12:51:54

Below is generated by plot.py at 2018-01-30 16:35:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.96 Mbit/s

95th percentile per-packet one-way delay: 151.459 ms

Loss rate: 1.80%

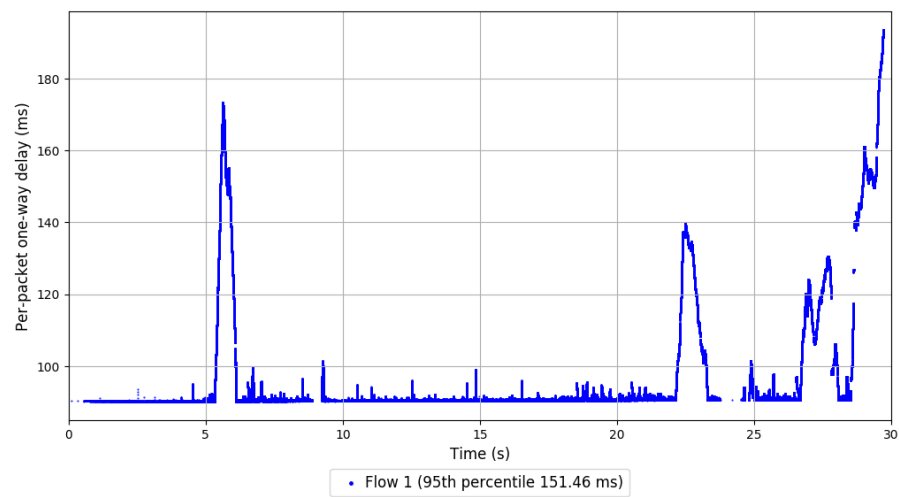
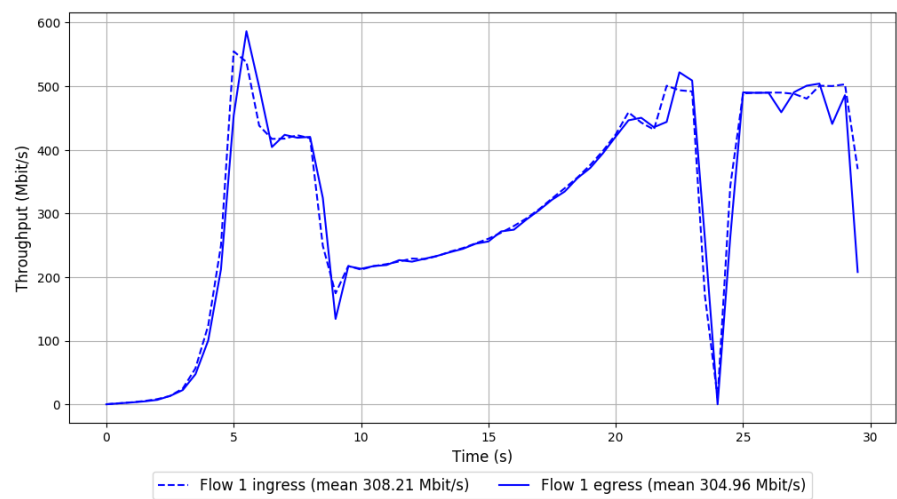
-- Flow 1:

Average throughput: 304.96 Mbit/s

95th percentile per-packet one-way delay: 151.459 ms

Loss rate: 1.80%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-30 13:06:13

End at: 2018-01-30 13:06:43

Below is generated by plot.py at 2018-01-30 16:35:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.53 Mbit/s

95th percentile per-packet one-way delay: 190.244 ms

Loss rate: 4.09%

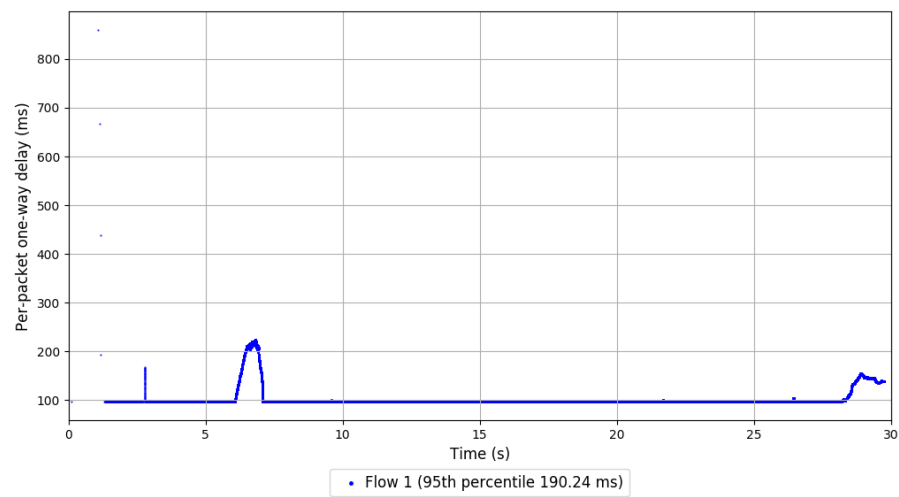
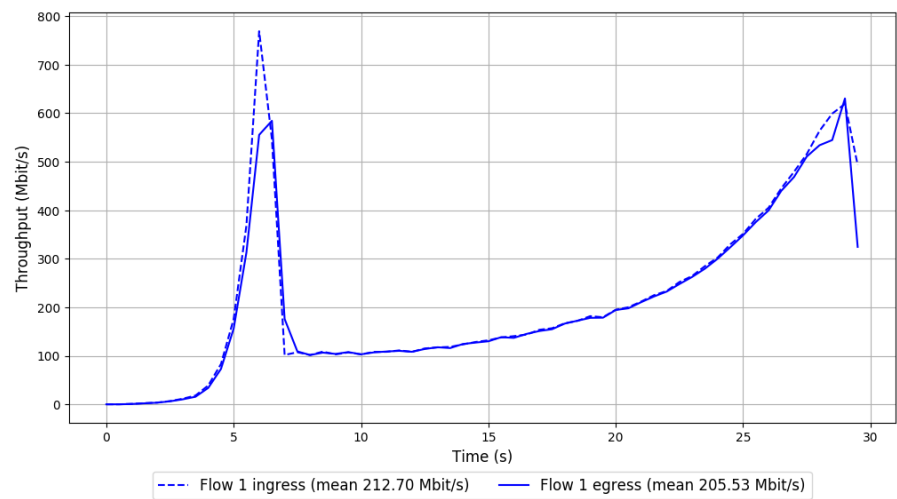
-- Flow 1:

Average throughput: 205.53 Mbit/s

95th percentile per-packet one-way delay: 190.244 ms

Loss rate: 4.09%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-30 13:20:37

End at: 2018-01-30 13:21:07

Below is generated by plot.py at 2018-01-30 16:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.45 Mbit/s

95th percentile per-packet one-way delay: 193.891 ms

Loss rate: 2.67%

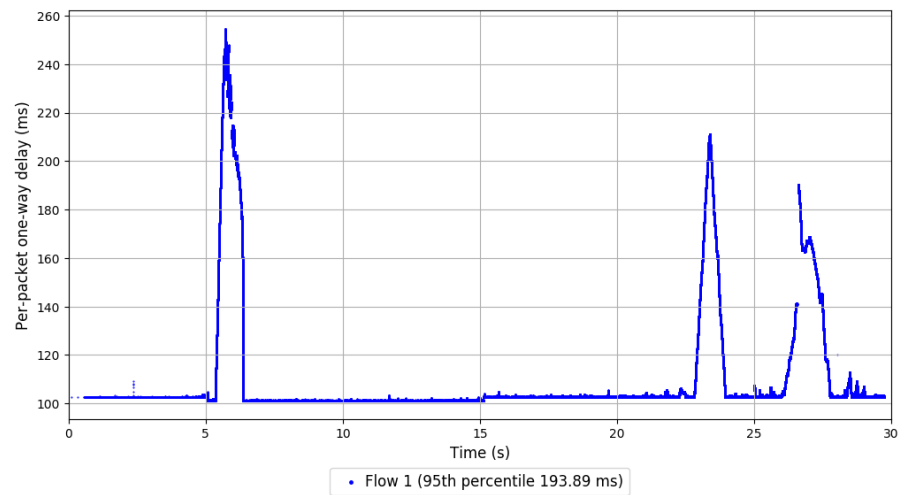
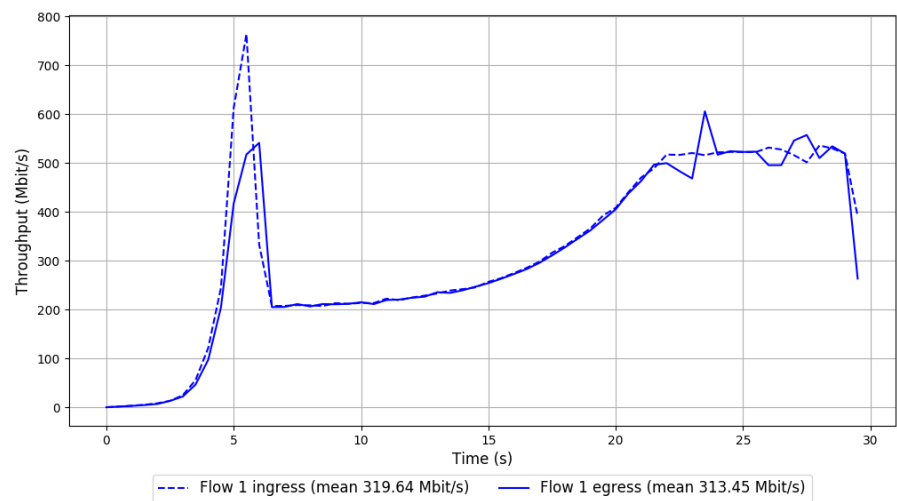
-- Flow 1:

Average throughput: 313.45 Mbit/s

95th percentile per-packet one-way delay: 193.891 ms

Loss rate: 2.67%

Run 10: Report of Vivace-loss — Data Link

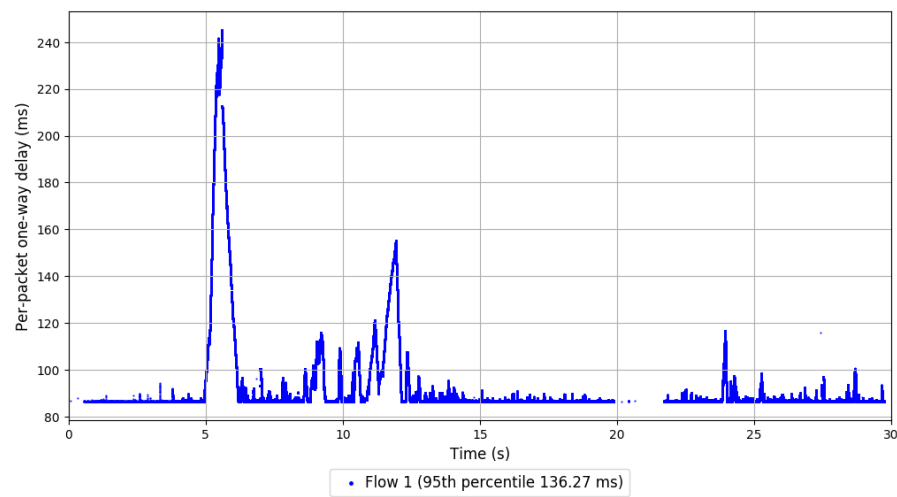
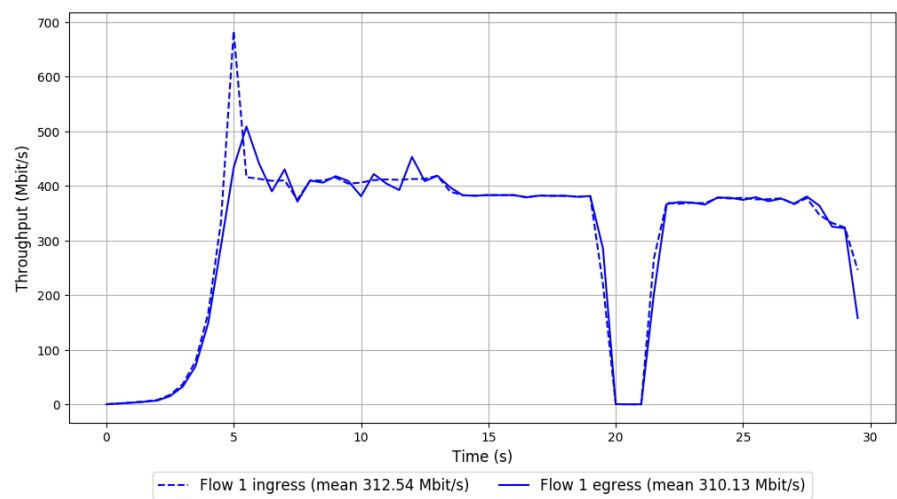


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-30 11:02:40
End at: 2018-01-30 11:03:10

# Below is generated by plot.py at 2018-01-30 16:36:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.13 Mbit/s
95th percentile per-packet one-way delay: 136.270 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 310.13 Mbit/s
95th percentile per-packet one-way delay: 136.270 ms
Loss rate: 1.52%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-30 11:17:17

End at: 2018-01-30 11:17:47

Below is generated by plot.py at 2018-01-30 16:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.09 Mbit/s

95th percentile per-packet one-way delay: 159.755 ms

Loss rate: 1.52%

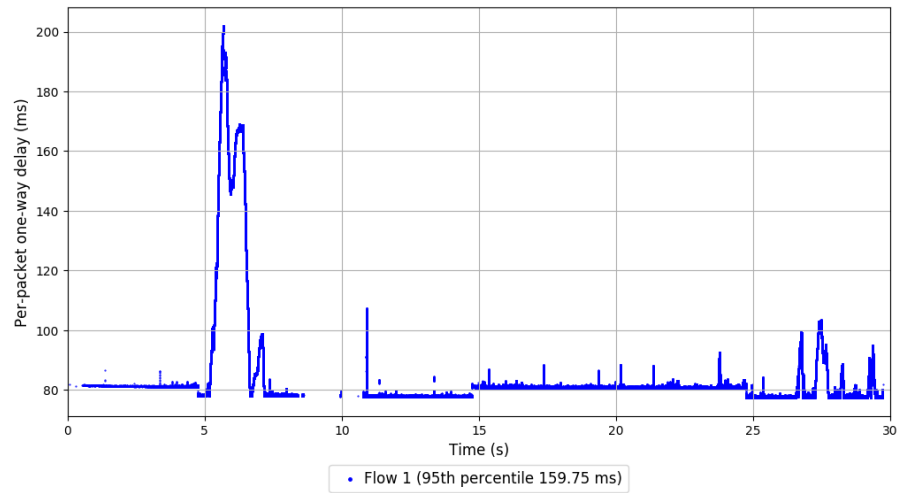
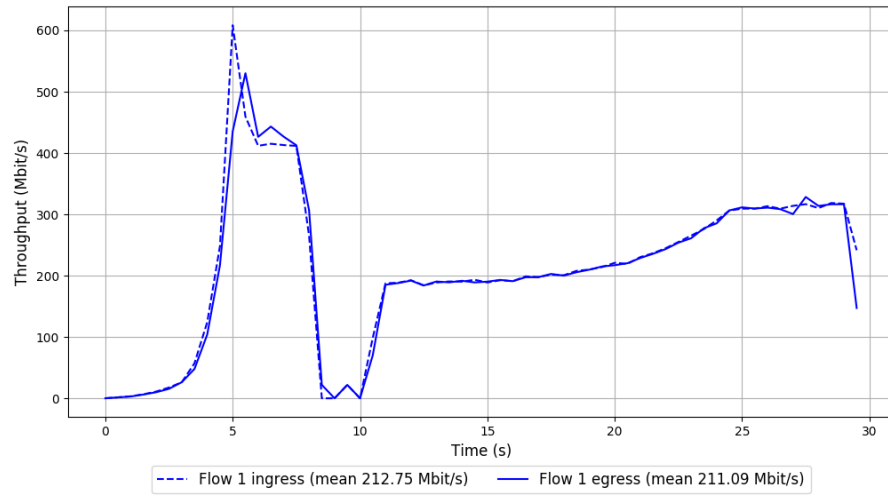
-- Flow 1:

Average throughput: 211.09 Mbit/s

95th percentile per-packet one-way delay: 159.755 ms

Loss rate: 1.52%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-30 11:31:59

End at: 2018-01-30 11:32:29

Below is generated by plot.py at 2018-01-30 16:36:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.22 Mbit/s

95th percentile per-packet one-way delay: 155.174 ms

Loss rate: 0.76%

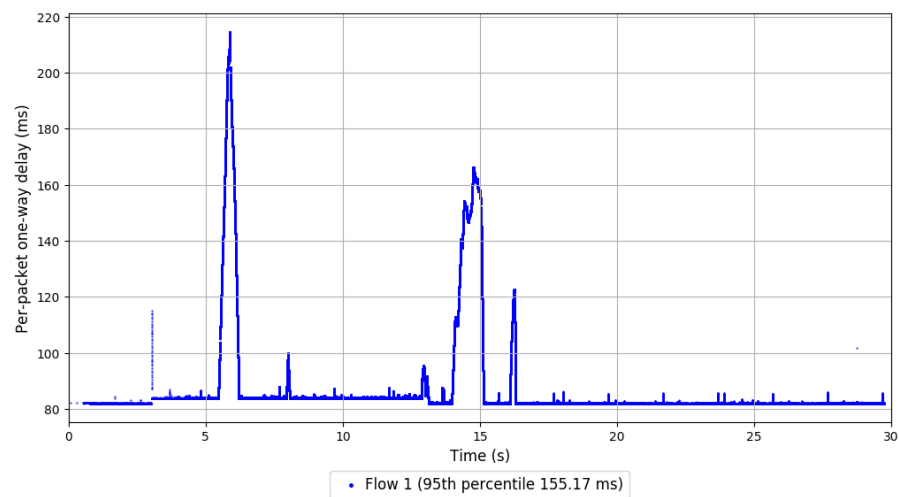
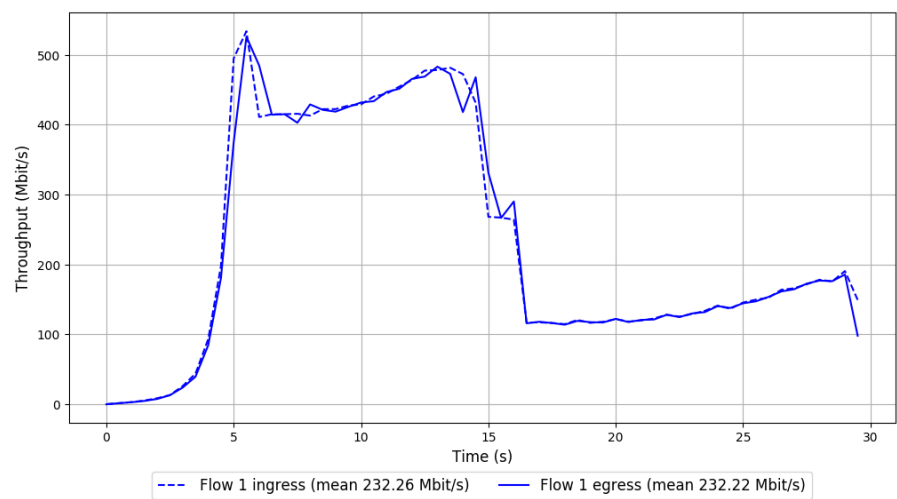
-- Flow 1:

Average throughput: 232.22 Mbit/s

95th percentile per-packet one-way delay: 155.174 ms

Loss rate: 0.76%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-30 11:46:34

End at: 2018-01-30 11:47:04

Below is generated by plot.py at 2018-01-30 16:38:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.59 Mbit/s

95th percentile per-packet one-way delay: 149.197 ms

Loss rate: 1.11%

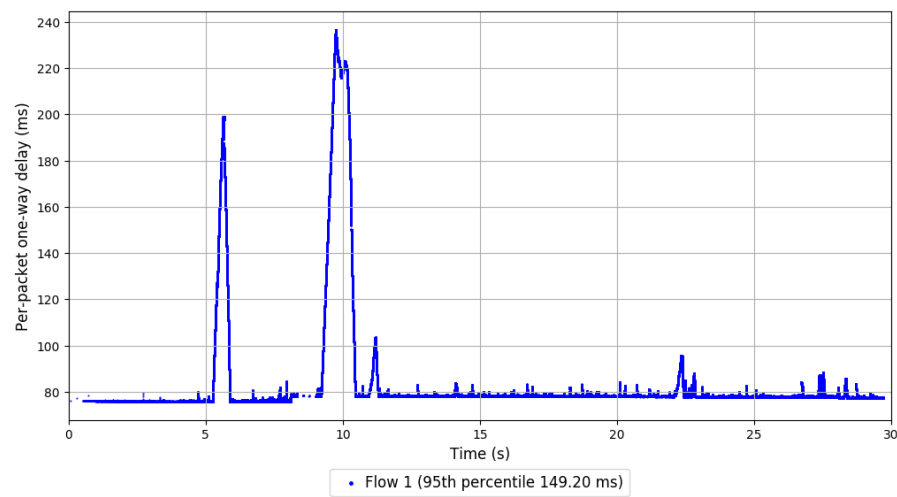
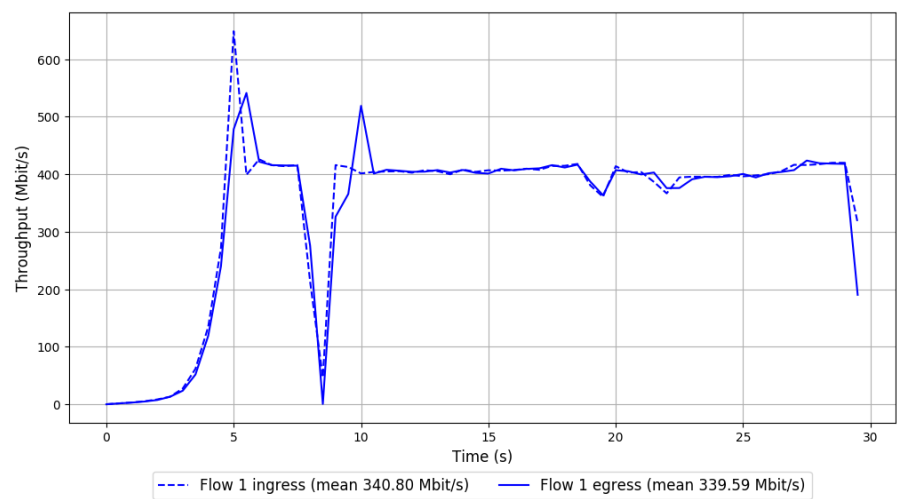
-- Flow 1:

Average throughput: 339.59 Mbit/s

95th percentile per-packet one-way delay: 149.197 ms

Loss rate: 1.11%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-30 12:01:10

End at: 2018-01-30 12:01:40

Below is generated by plot.py at 2018-01-30 16:38:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.58 Mbit/s

95th percentile per-packet one-way delay: 87.810 ms

Loss rate: 1.78%

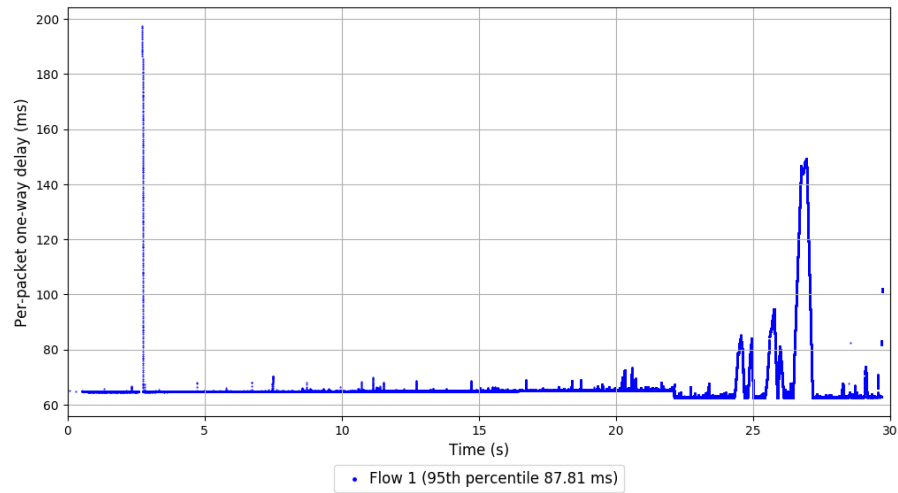
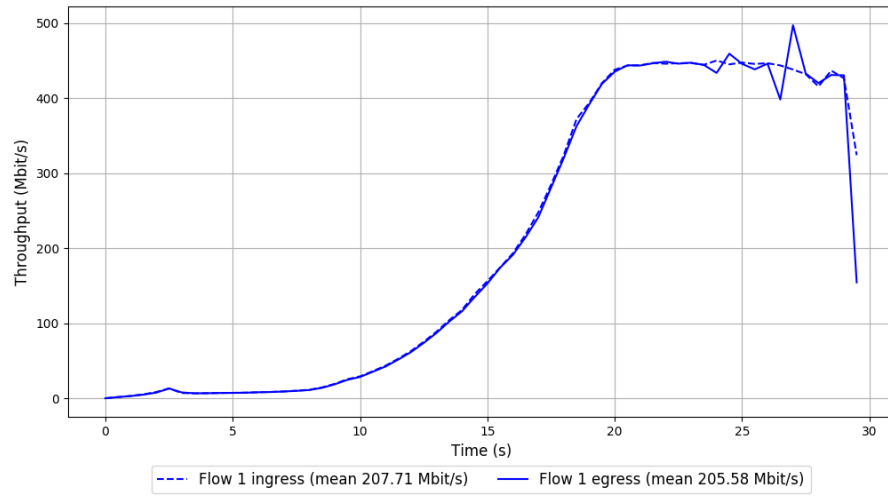
-- Flow 1:

Average throughput: 205.58 Mbit/s

95th percentile per-packet one-way delay: 87.810 ms

Loss rate: 1.78%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-30 12:16:05

End at: 2018-01-30 12:16:35

Below is generated by plot.py at 2018-01-30 16:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.94 Mbit/s

95th percentile per-packet one-way delay: 94.975 ms

Loss rate: 1.08%

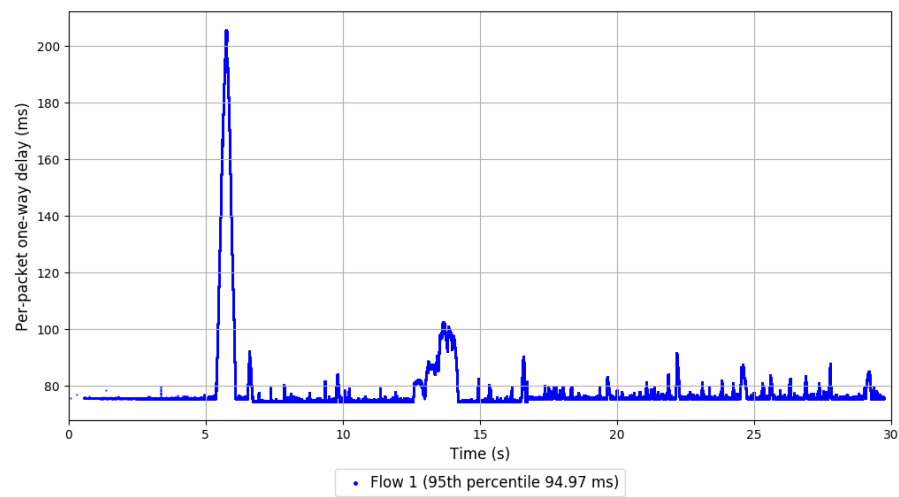
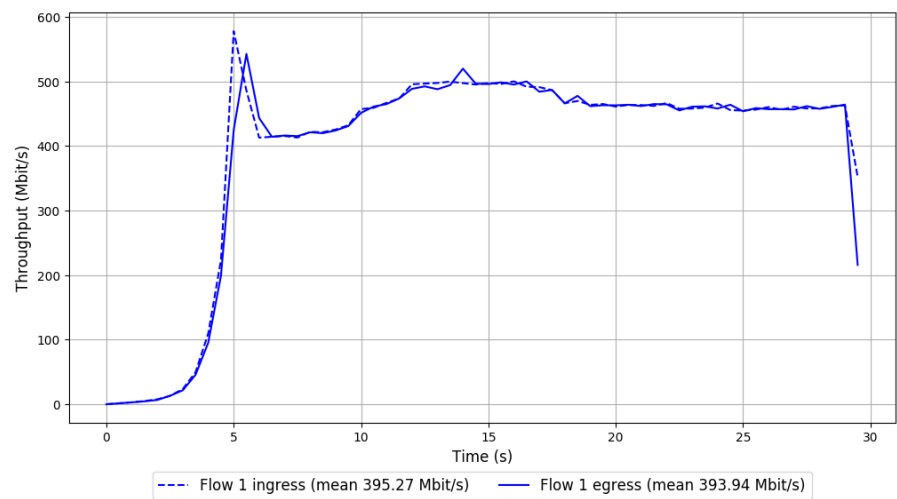
-- Flow 1:

Average throughput: 393.94 Mbit/s

95th percentile per-packet one-way delay: 94.975 ms

Loss rate: 1.08%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-30 12:31:07

End at: 2018-01-30 12:31:37

Below is generated by plot.py at 2018-01-30 16:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.11 Mbit/s

95th percentile per-packet one-way delay: 72.100 ms

Loss rate: 1.26%

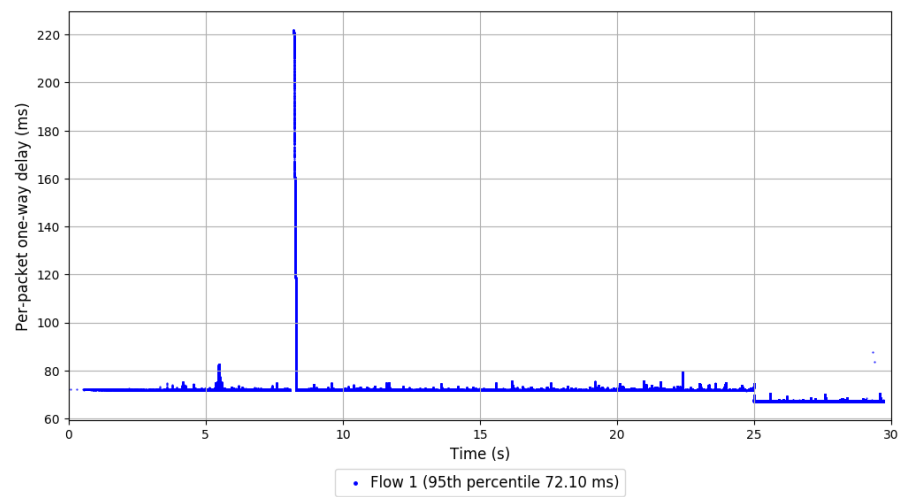
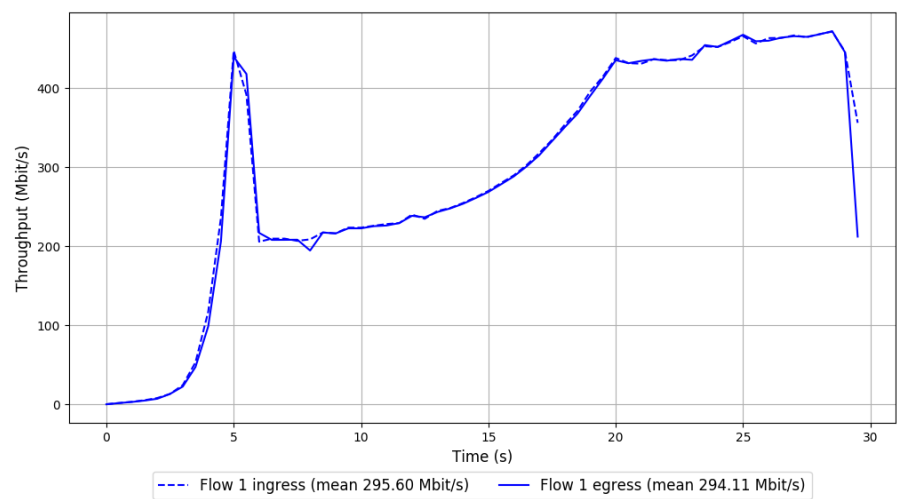
-- Flow 1:

Average throughput: 294.11 Mbit/s

95th percentile per-packet one-way delay: 72.100 ms

Loss rate: 1.26%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-30 12:45:42

End at: 2018-01-30 12:46:12

Below is generated by plot.py at 2018-01-30 16:39:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.15 Mbit/s

95th percentile per-packet one-way delay: 89.500 ms

Loss rate: 2.05%

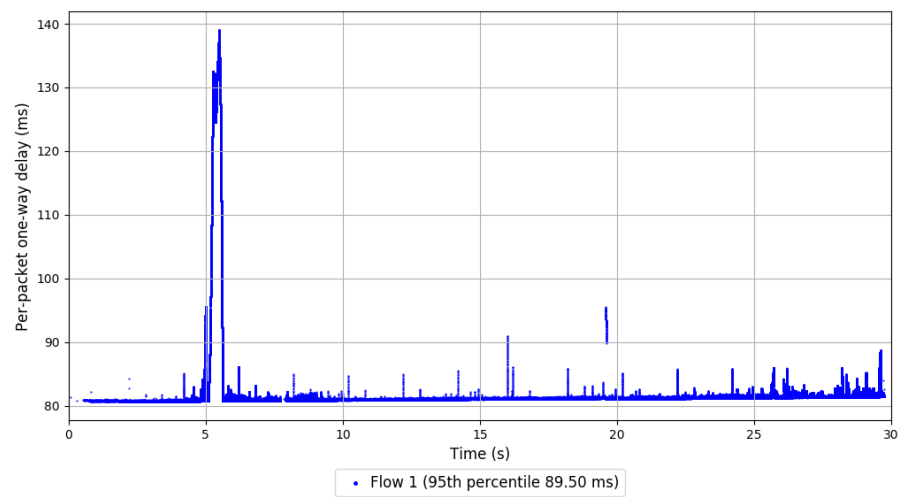
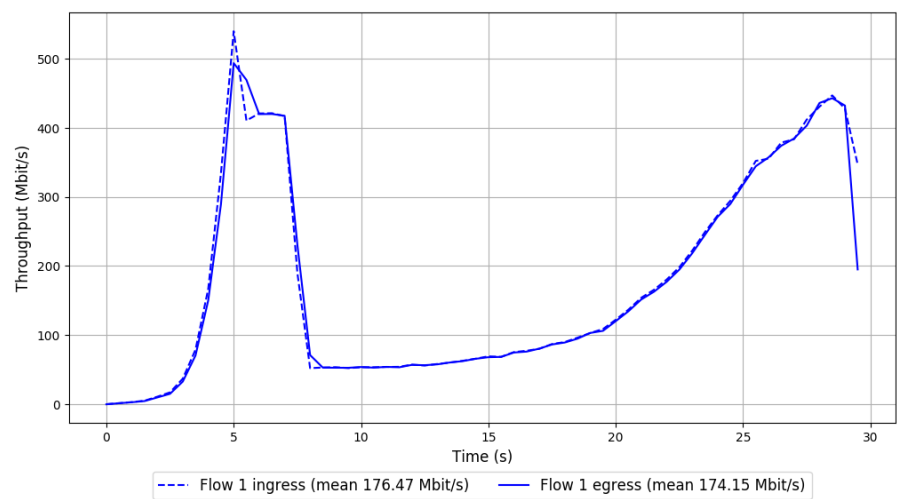
-- Flow 1:

Average throughput: 174.15 Mbit/s

95th percentile per-packet one-way delay: 89.500 ms

Loss rate: 2.05%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-30 13:00:21

End at: 2018-01-30 13:00:51

Below is generated by plot.py at 2018-01-30 16:39:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.49 Mbit/s

95th percentile per-packet one-way delay: 145.273 ms

Loss rate: 1.11%

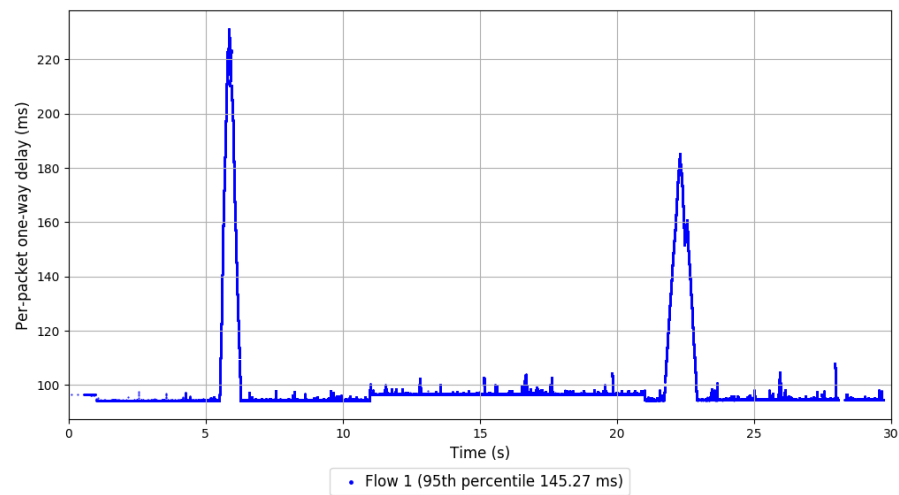
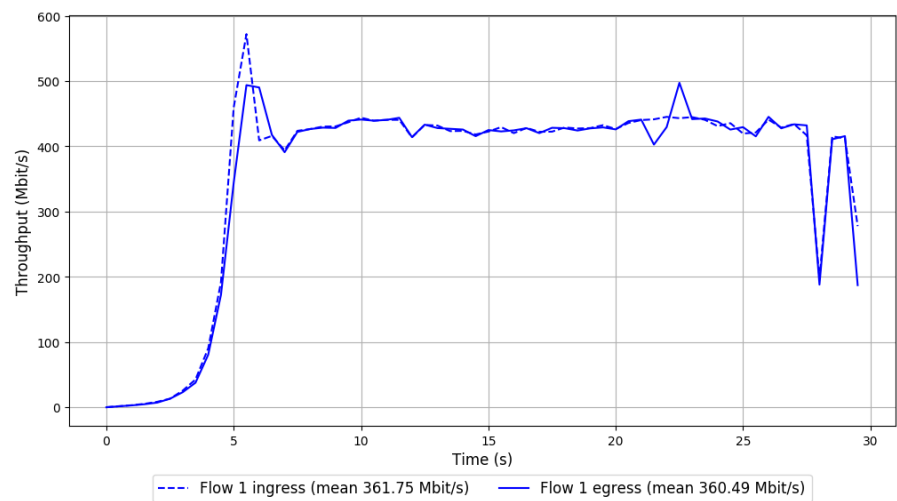
-- Flow 1:

Average throughput: 360.49 Mbit/s

95th percentile per-packet one-way delay: 145.273 ms

Loss rate: 1.11%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-30 13:15:02

End at: 2018-01-30 13:15:32

Below is generated by plot.py at 2018-01-30 16:39:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.46 Mbit/s

95th percentile per-packet one-way delay: 155.950 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 349.46 Mbit/s

95th percentile per-packet one-way delay: 155.950 ms

Loss rate: 1.27%

Run 10: Report of Vivace-LTE — Data Link

