

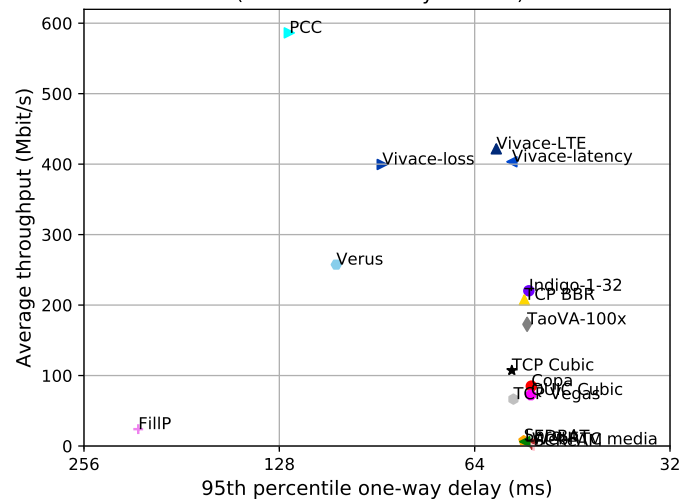
Pantheon Report

Generated at 2018-01-30 23:34:51 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

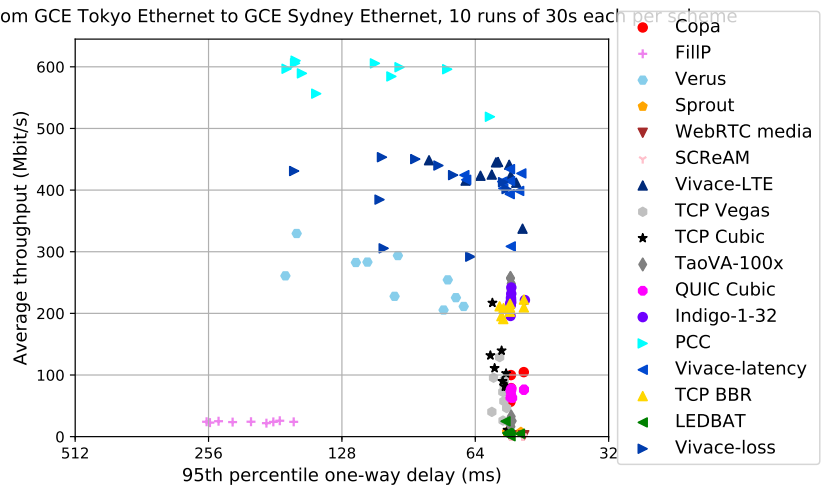
Git summary:

```
branch: master @ 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 Sydney Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	207.39	53.66	0.57
TCP Cubic	9	107.23	56.10	0.80
LEDBAT	10	6.17	53.57	1.56
PCC	10	586.27	123.55	1.03
QUIC Cubic	10	72.43	52.44	0.41
SCReAM	10	0.21	51.92	0.36
WebRTC media	10	2.29	52.24	0.37
Sprout	10	7.58	53.77	1.46
TaoVA-100x	9	172.69	53.13	0.26
TCP Vegas	10	66.52	55.78	1.18
Verus	10	257.40	104.58	0.68
Copa	4	84.93	52.35	0.31
FillP	9	23.93	211.17	6.34
Indigo-1-32	10	220.25	52.81	0.37
Vivace-latency	10	403.37	56.08	0.35
Vivace-loss	10	399.53	88.84	0.71
Vivace-LTE	10	421.73	59.27	0.31

Run 1: Statistics of TCP BBR

Start at: 2018-01-30 17:49:21

End at: 2018-01-30 17:49:51

Below is generated by plot.py at 2018-01-30 22:33:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.49 Mbit/s

95th percentile per-packet one-way delay: 55.880 ms

Loss rate: 0.61%

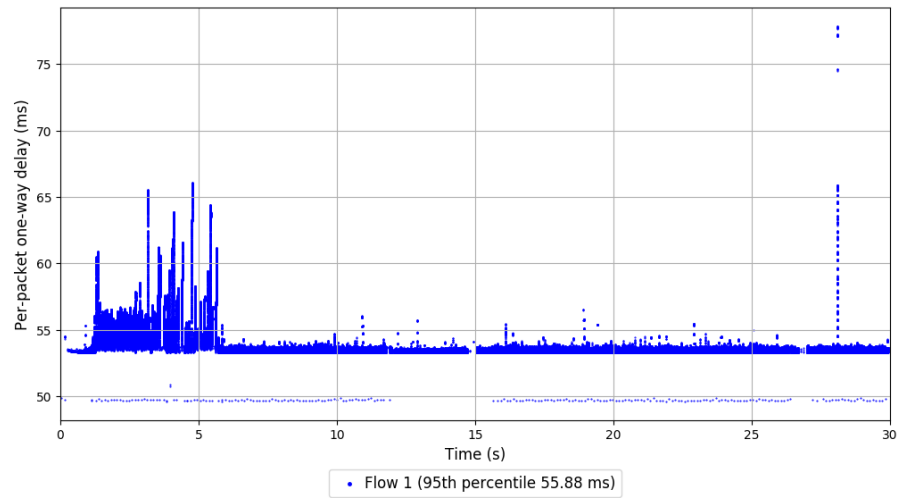
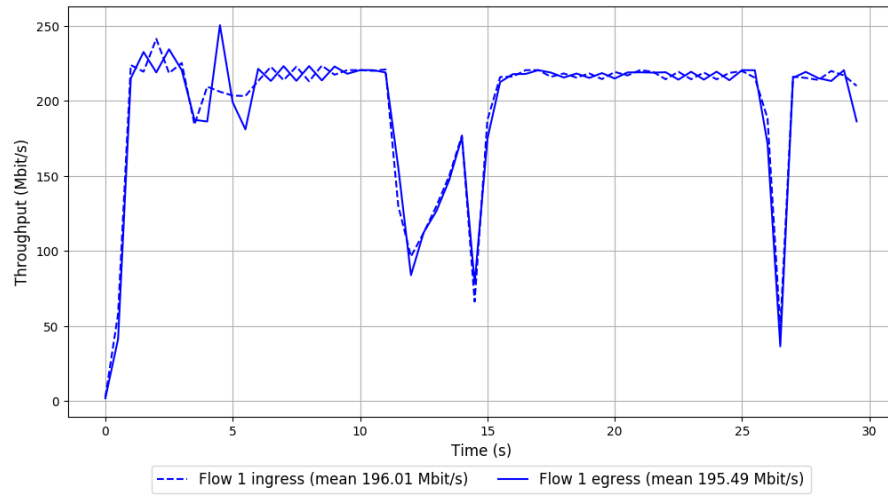
-- Flow 1:

Average throughput: 195.49 Mbit/s

95th percentile per-packet one-way delay: 55.880 ms

Loss rate: 0.61%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-30 18:03:23

End at: 2018-01-30 18:03:53

Below is generated by plot.py at 2018-01-30 22:33:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.60 Mbit/s

95th percentile per-packet one-way delay: 53.923 ms

Loss rate: 0.38%

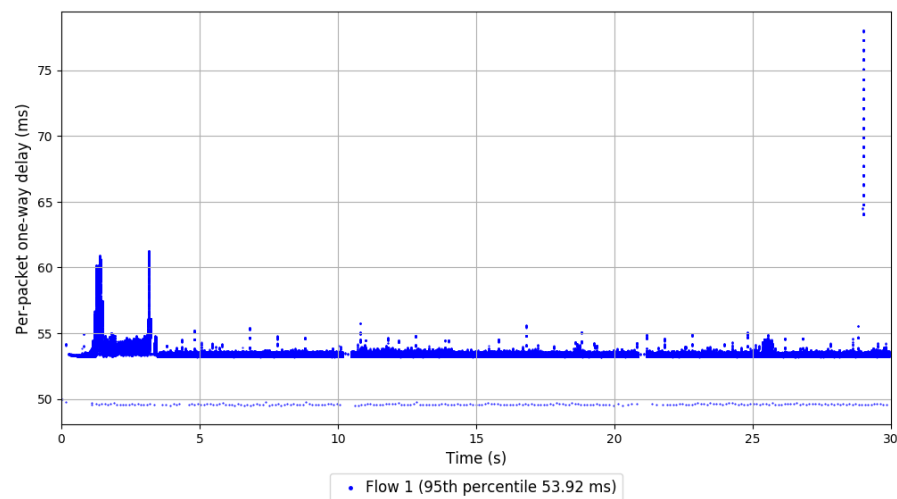
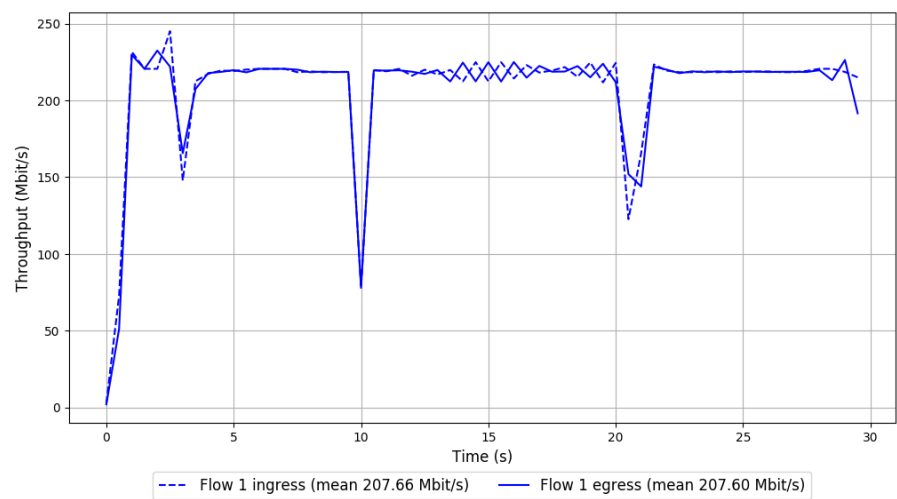
-- Flow 1:

Average throughput: 207.60 Mbit/s

95th percentile per-packet one-way delay: 53.923 ms

Loss rate: 0.38%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-30 18:17:36

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

Below is generated by plot.py at 2018-01-30 22:33:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.51 Mbit/s

95th percentile per-packet one-way delay: 55.265 ms

Loss rate: 0.76%

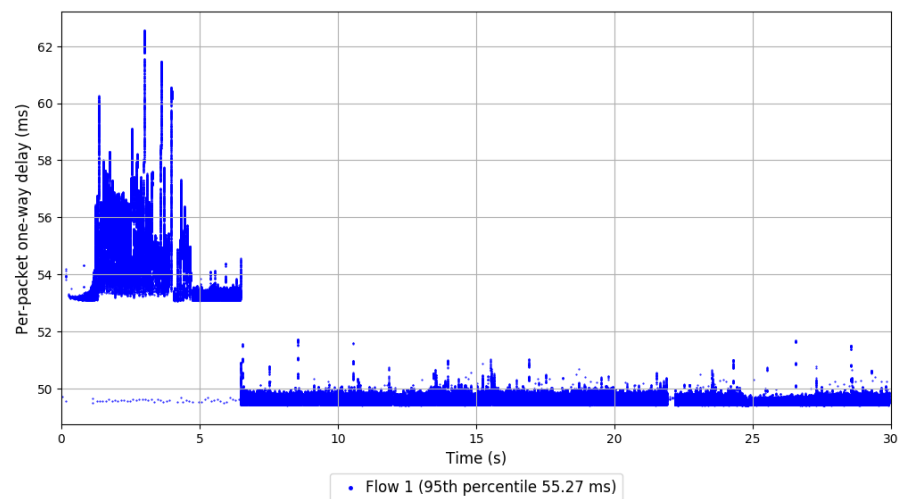
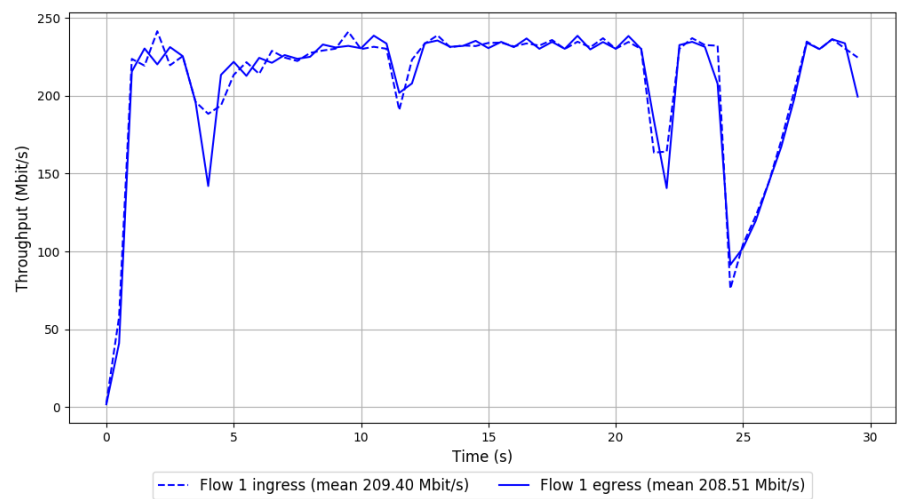
-- Flow 1:

Average throughput: 208.51 Mbit/s

95th percentile per-packet one-way delay: 55.265 ms

Loss rate: 0.76%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-30 18:31:45

End at: 2018-01-30 18:32:15

Below is generated by plot.py at 2018-01-30 22:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.49 Mbit/s

95th percentile per-packet one-way delay: 56.410 ms

Loss rate: 0.44%

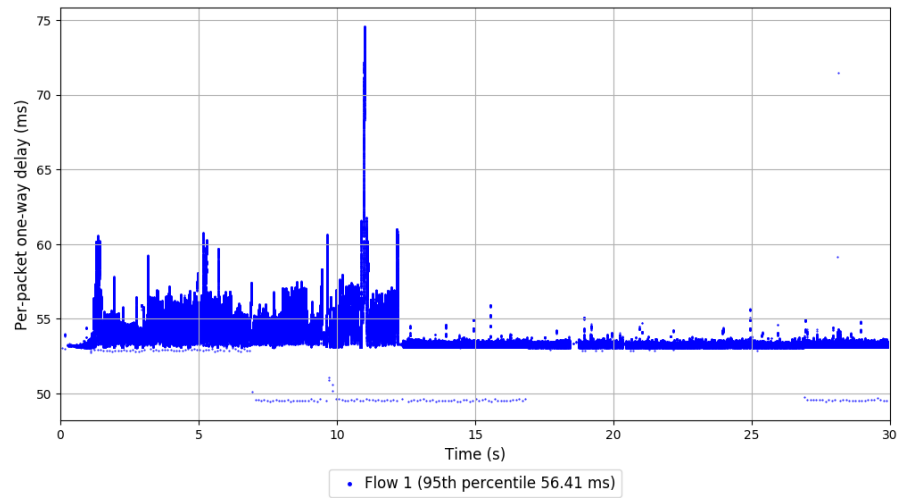
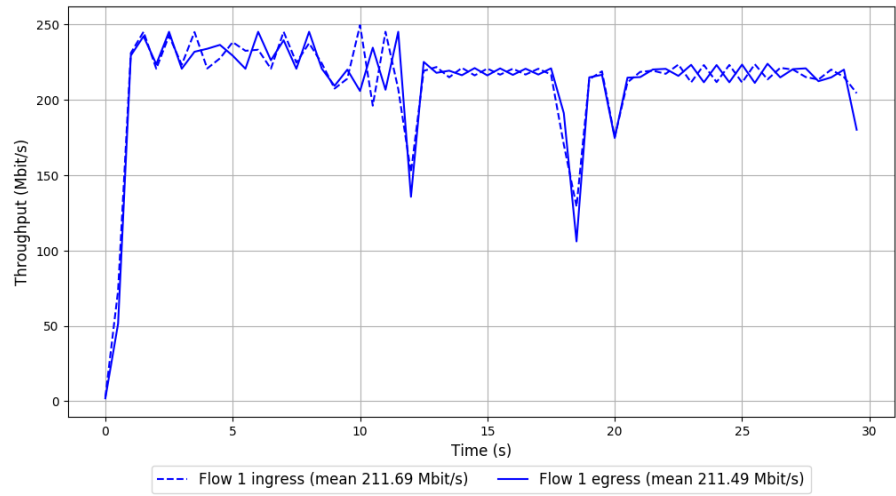
-- Flow 1:

Average throughput: 211.49 Mbit/s

95th percentile per-packet one-way delay: 56.410 ms

Loss rate: 0.44%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-30 18:45:51

End at: 2018-01-30 18:46:21

Below is generated by plot.py at 2018-01-30 22:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.75 Mbit/s

95th percentile per-packet one-way delay: 53.471 ms

Loss rate: 0.69%

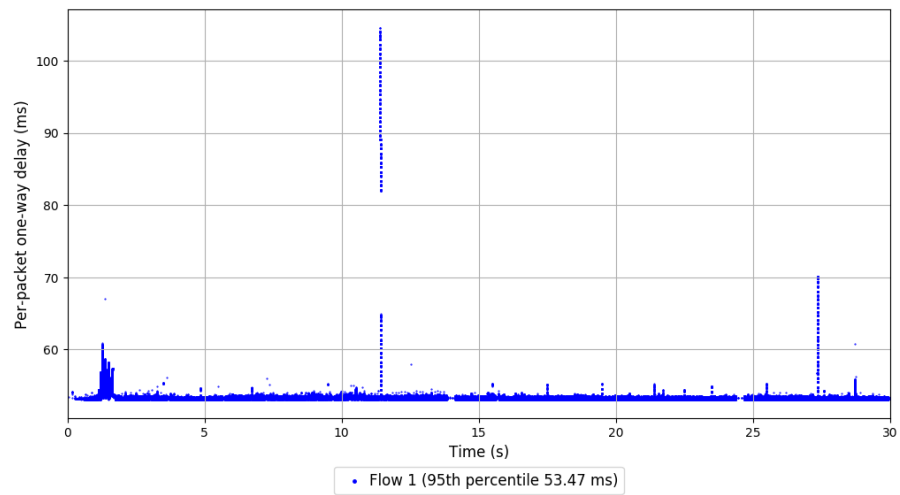
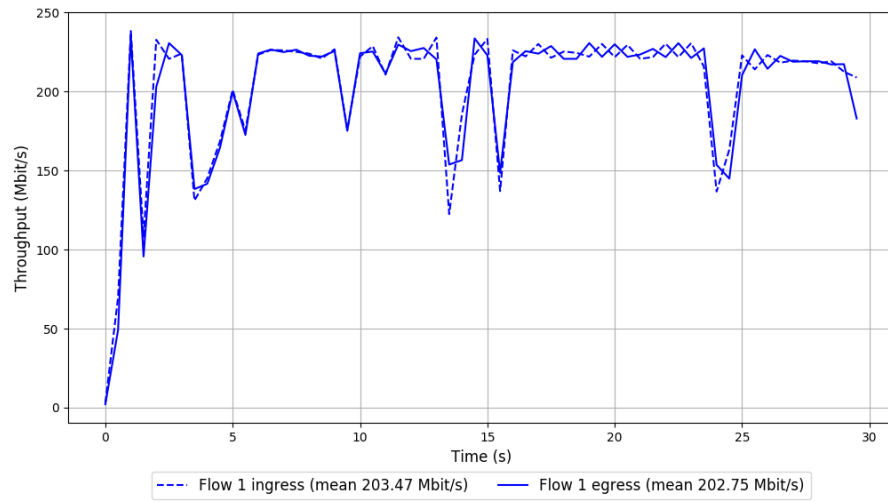
-- Flow 1:

Average throughput: 202.75 Mbit/s

95th percentile per-packet one-way delay: 53.471 ms

Loss rate: 0.69%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-30 18:59:55

End at: 2018-01-30 19:00:25

Below is generated by plot.py at 2018-01-30 22:33:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.80 Mbit/s

95th percentile per-packet one-way delay: 55.342 ms

Loss rate: 1.05%

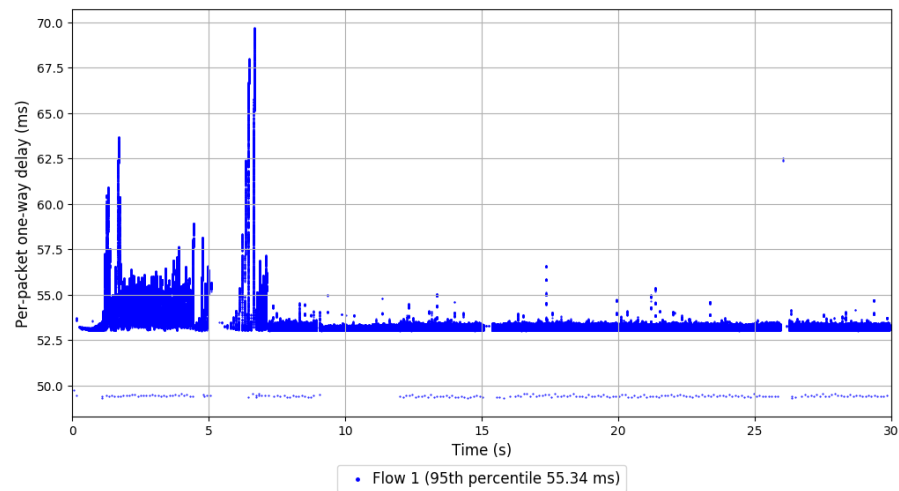
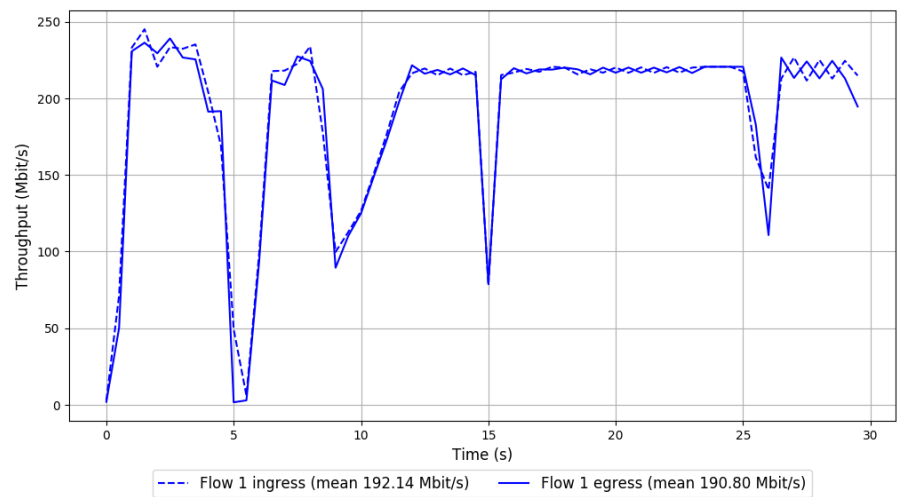
-- Flow 1:

Average throughput: 190.80 Mbit/s

95th percentile per-packet one-way delay: 55.342 ms

Loss rate: 1.05%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-30 19:14:12

End at: 2018-01-30 19:14:42

Below is generated by plot.py at 2018-01-30 22:33:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.80 Mbit/s

95th percentile per-packet one-way delay: 53.420 ms

Loss rate: 0.31%

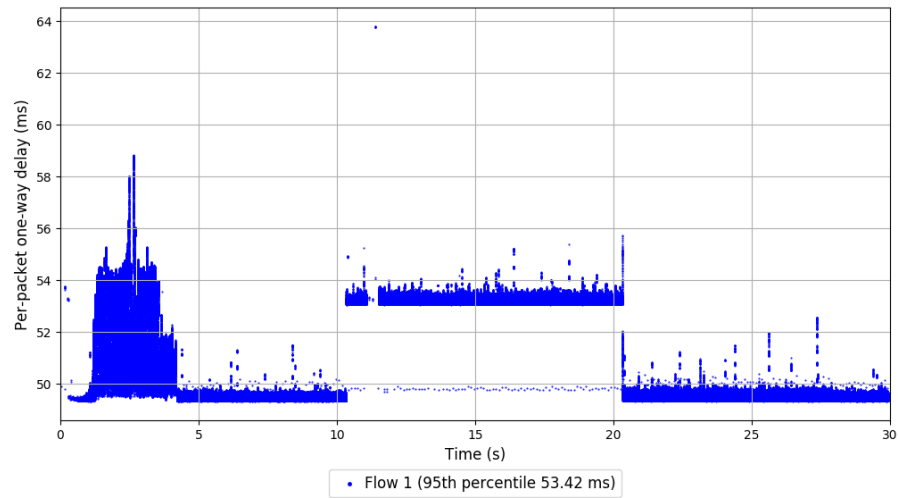
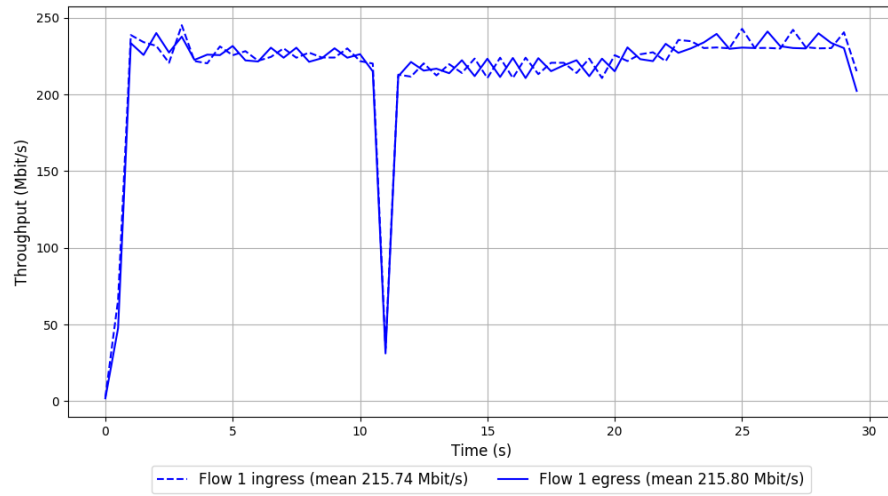
-- Flow 1:

Average throughput: 215.80 Mbit/s

95th percentile per-packet one-way delay: 53.420 ms

Loss rate: 0.31%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-30 19:28:11

End at: 2018-01-30 19:28:41

Below is generated by plot.py at 2018-01-30 22:33:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.40 Mbit/s

95th percentile per-packet one-way delay: 49.713 ms

Loss rate: 0.37%

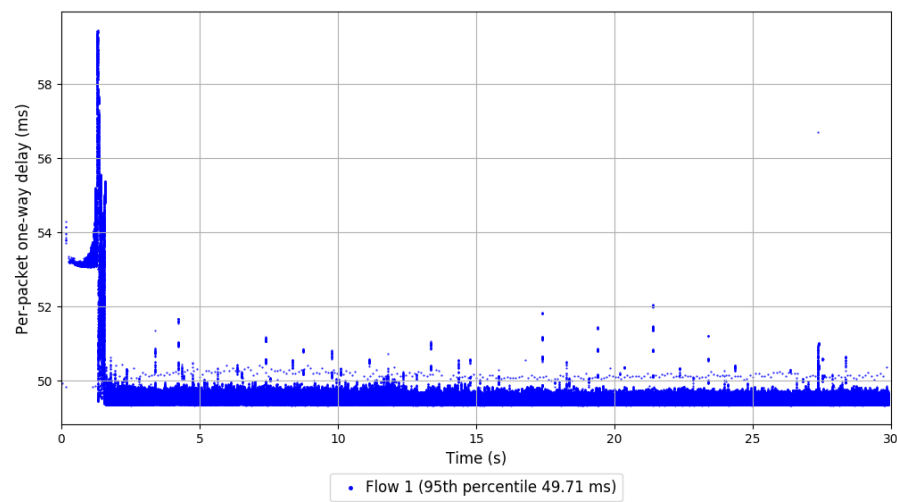
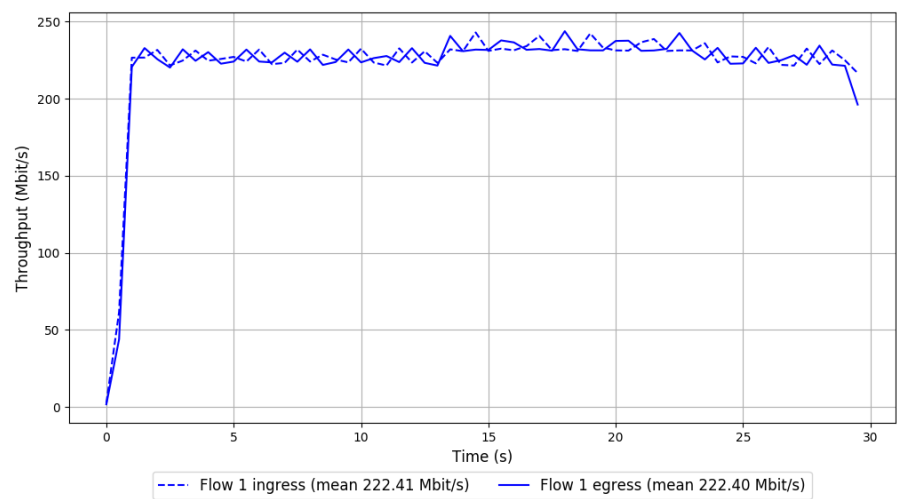
-- Flow 1:

Average throughput: 222.40 Mbit/s

95th percentile per-packet one-way delay: 49.713 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-30 19:42:04

End at: 2018-01-30 19:42:34

Below is generated by plot.py at 2018-01-30 22:36:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.46 Mbit/s

95th percentile per-packet one-way delay: 53.424 ms

Loss rate: 0.56%

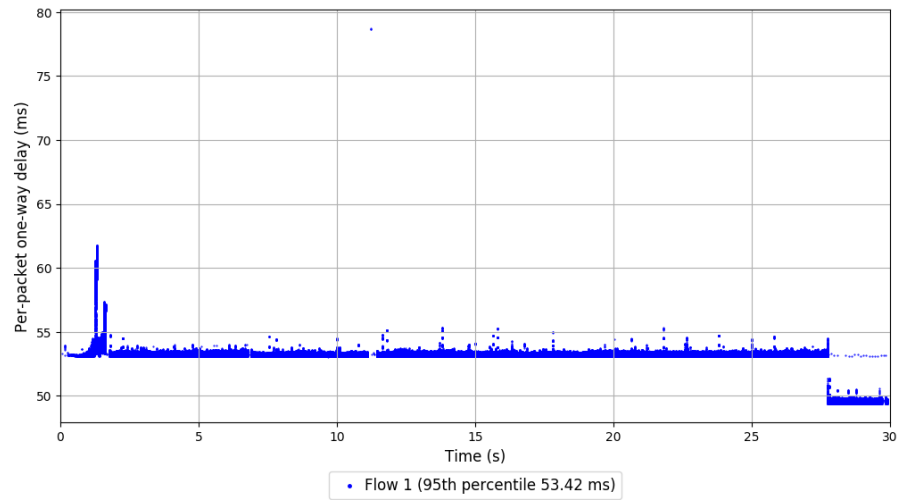
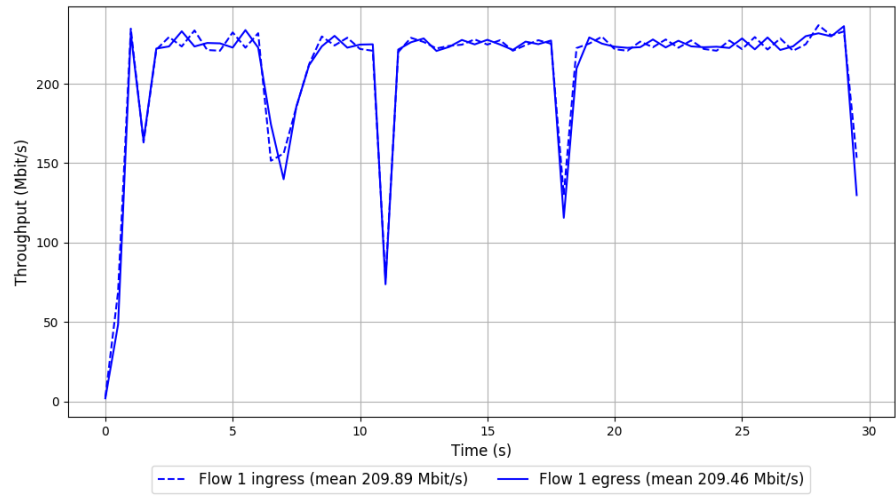
-- Flow 1:

Average throughput: 209.46 Mbit/s

95th percentile per-packet one-way delay: 53.424 ms

Loss rate: 0.56%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-30 19:56:12

End at: 2018-01-30 19:56:42

Below is generated by plot.py at 2018-01-30 22:36:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.64 Mbit/s

95th percentile per-packet one-way delay: 49.727 ms

Loss rate: 0.56%

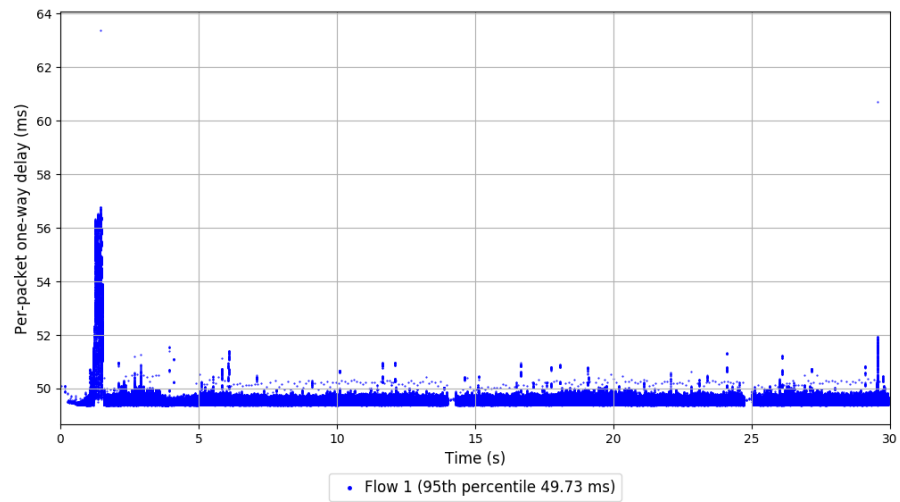
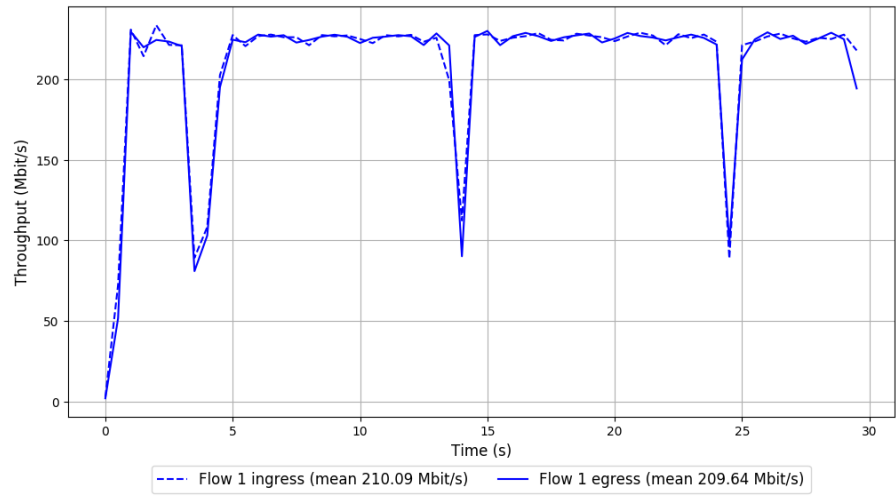
-- Flow 1:

Average throughput: 209.64 Mbit/s

95th percentile per-packet one-way delay: 49.727 ms

Loss rate: 0.56%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-30 17:46:45

End at: 2018-01-30 17:47:15

Below is generated by plot.py at 2018-01-30 22:36:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 54.106 ms

Loss rate: 1.88%

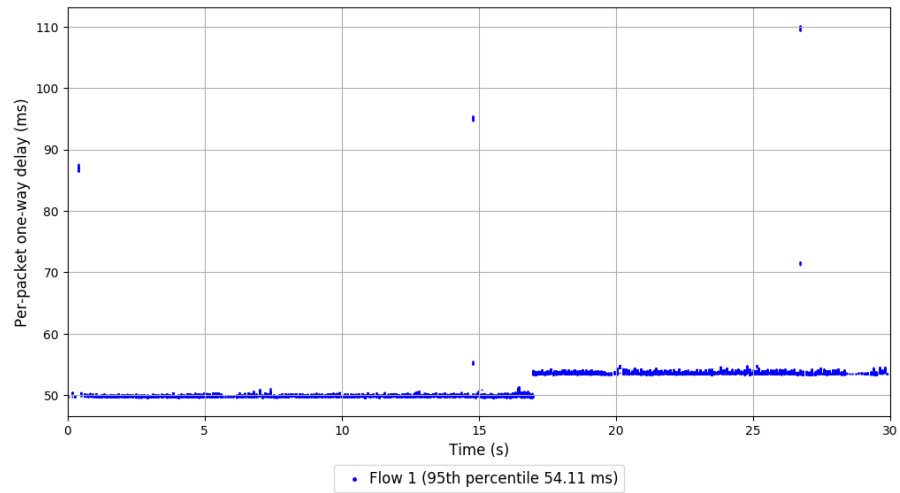
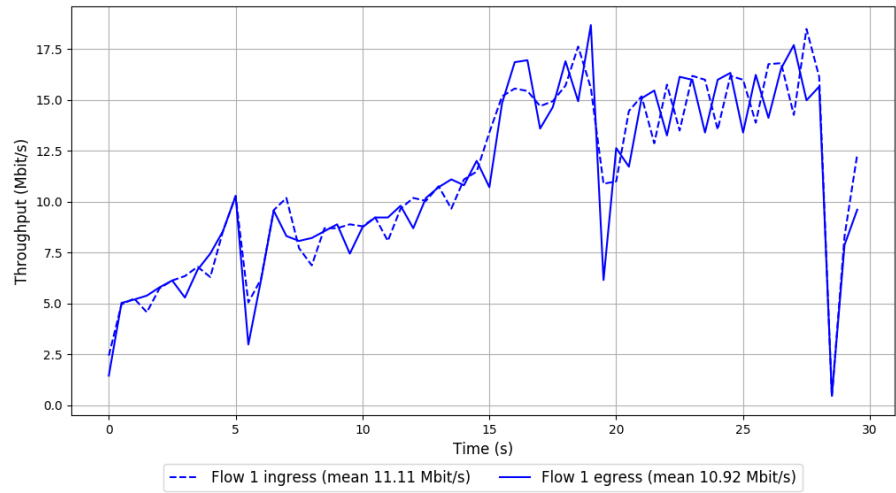
-- Flow 1:

Average throughput: 10.92 Mbit/s

95th percentile per-packet one-way delay: 54.106 ms

Loss rate: 1.88%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-30 18:00:42

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

Below is generated by plot.py at 2018-01-30 22:36:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.98 Mbit/s

95th percentile per-packet one-way delay: 54.388 ms

Loss rate: 1.56%

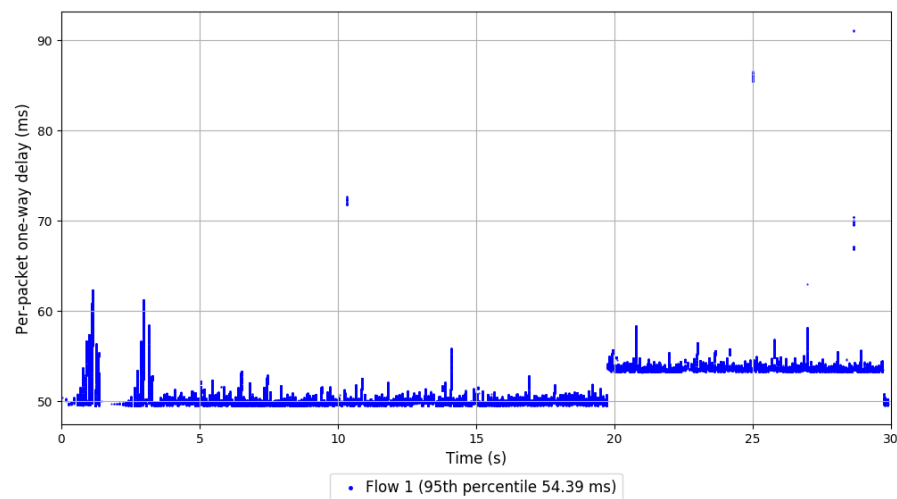
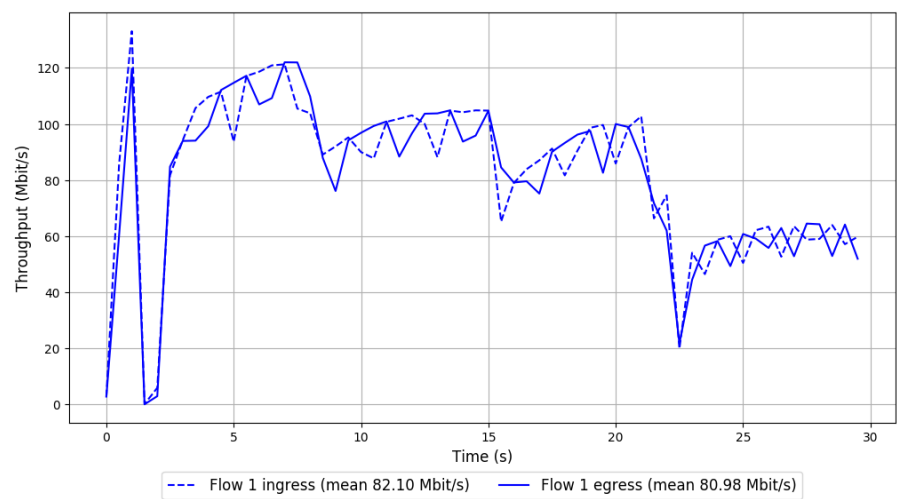
-- Flow 1:

Average throughput: 80.98 Mbit/s

95th percentile per-packet one-way delay: 54.388 ms

Loss rate: 1.56%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-30 18:14:55

End at: 2018-01-30 18:15:25

Below is generated by plot.py at 2018-01-30 22:36:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.22 Mbit/s

95th percentile per-packet one-way delay: 54.882 ms

Loss rate: 0.59%

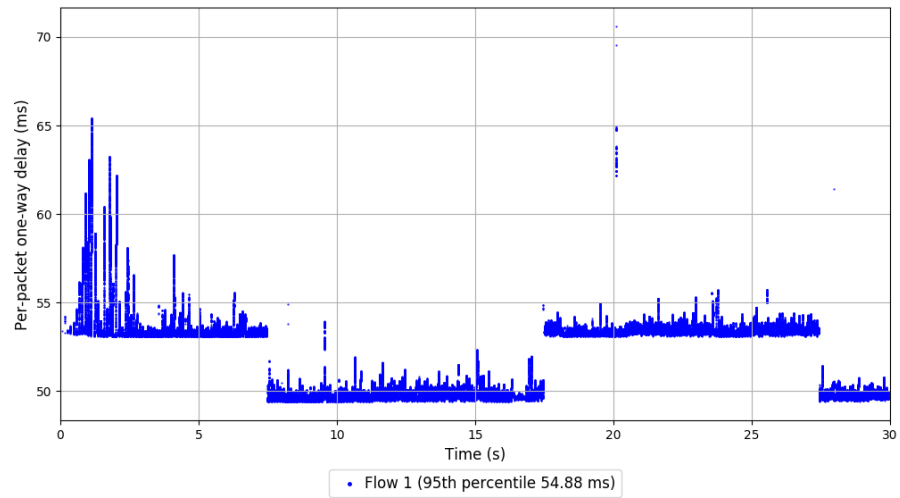
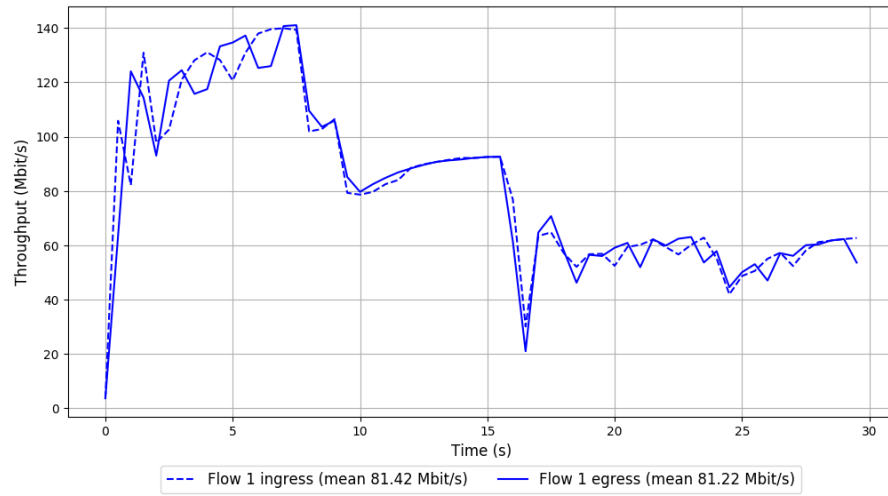
-- Flow 1:

Average throughput: 81.22 Mbit/s

95th percentile per-packet one-way delay: 54.882 ms

Loss rate: 0.59%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-30 18:29:05

End at: 2018-01-30 18:29:35

Below is generated by plot.py at 2018-01-30 22:36:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.04 Mbit/s

95th percentile per-packet one-way delay: 57.889 ms

Loss rate: 1.07%

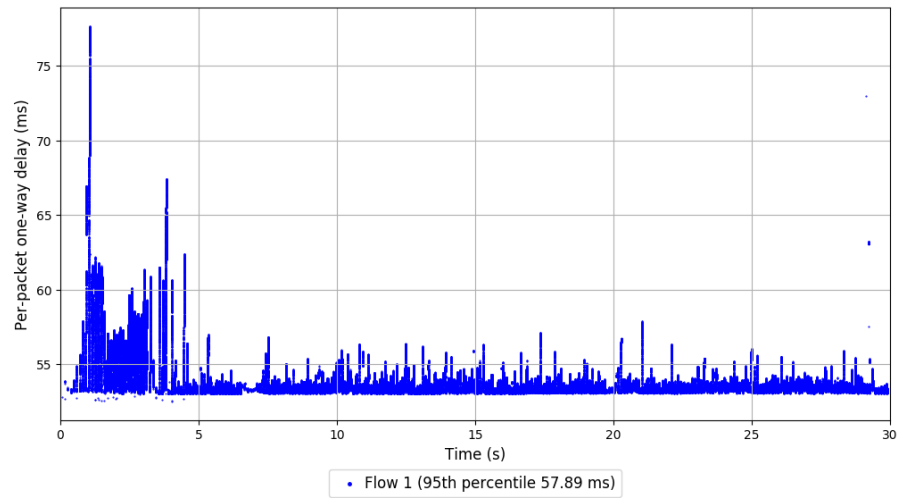
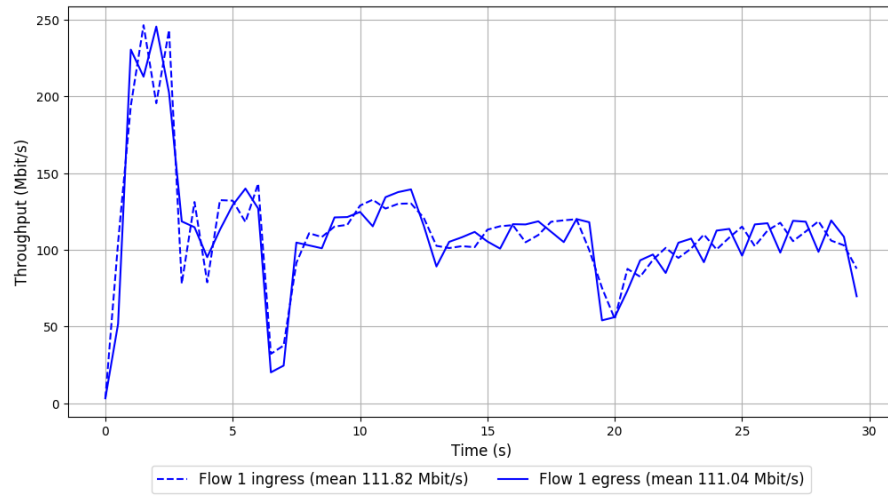
-- Flow 1:

Average throughput: 111.04 Mbit/s

95th percentile per-packet one-way delay: 57.889 ms

Loss rate: 1.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-30 18:43:09

End at: 2018-01-30 18:43:39

Below is generated by plot.py at 2018-01-30 22:36:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.77 Mbit/s

95th percentile per-packet one-way delay: 59.164 ms

Loss rate: 0.48%

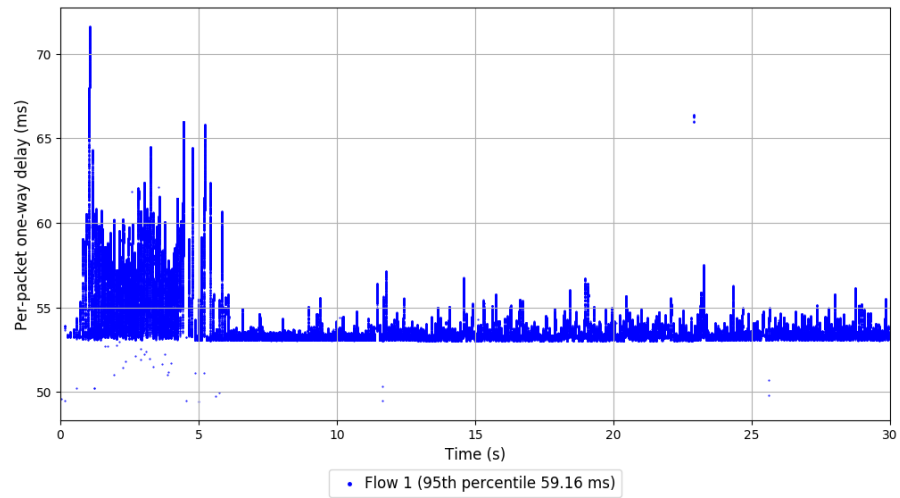
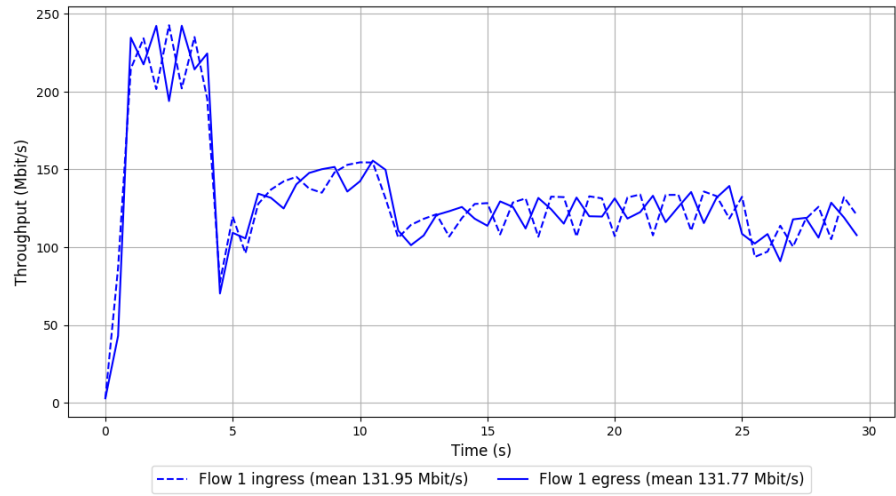
-- Flow 1:

Average throughput: 131.77 Mbit/s

95th percentile per-packet one-way delay: 59.164 ms

Loss rate: 0.48%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-30 18:57:15

End at: 2018-01-30 18:57:45

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.07 Mbit/s

95th percentile per-packet one-way delay: 58.550 ms

Loss rate: 0.14%

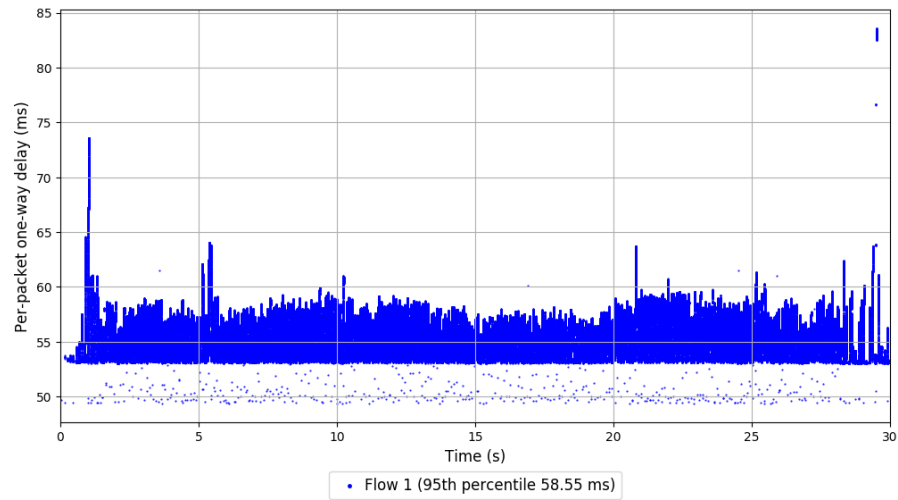
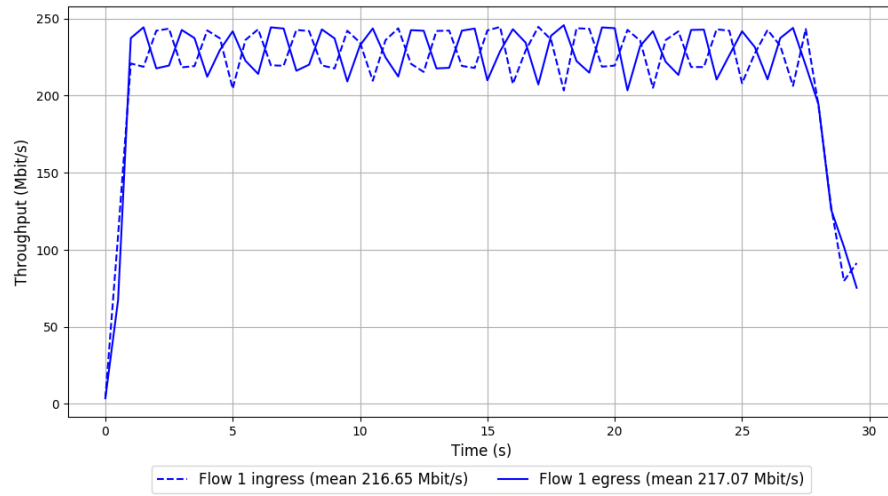
-- Flow 1:

Average throughput: 217.07 Mbit/s

95th percentile per-packet one-way delay: 58.550 ms

Loss rate: 0.14%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-30 19:11:31

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

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.61 Mbit/s

95th percentile per-packet one-way delay: 54.537 ms

Loss rate: 0.88%

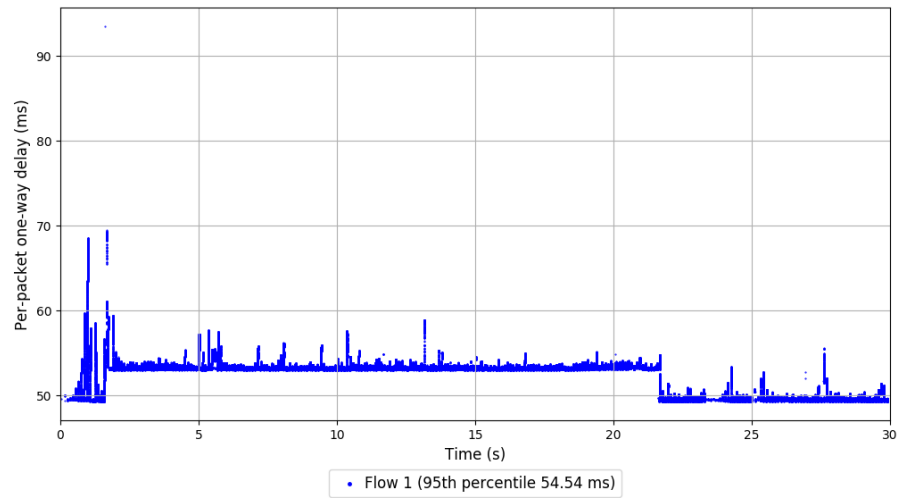
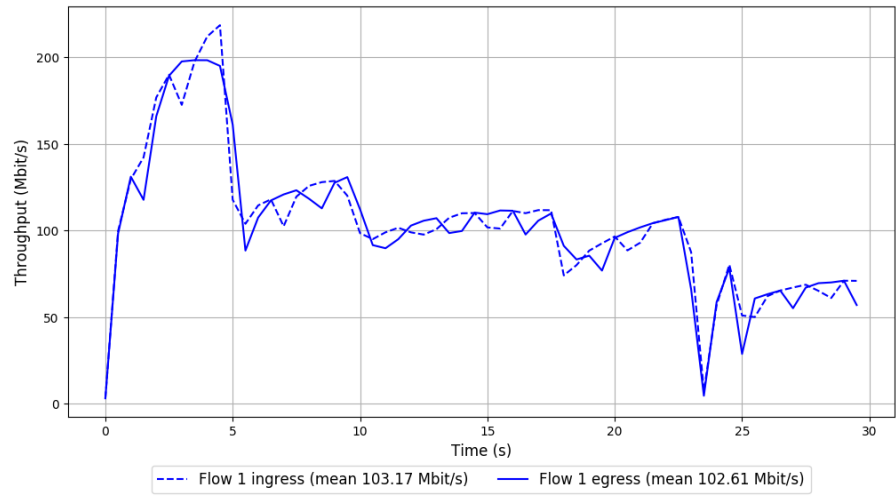
-- Flow 1:

Average throughput: 102.61 Mbit/s

95th percentile per-packet one-way delay: 54.537 ms

Loss rate: 0.88%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-30 19:25:34

End at: 2018-01-30 19:26:05

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.88 Mbit/s

95th percentile per-packet one-way delay: 55.541 ms

Loss rate: 0.24%

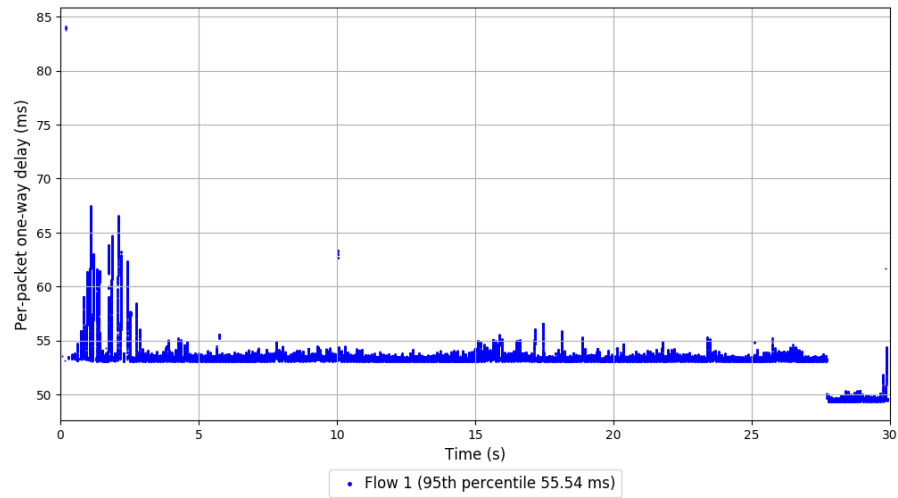
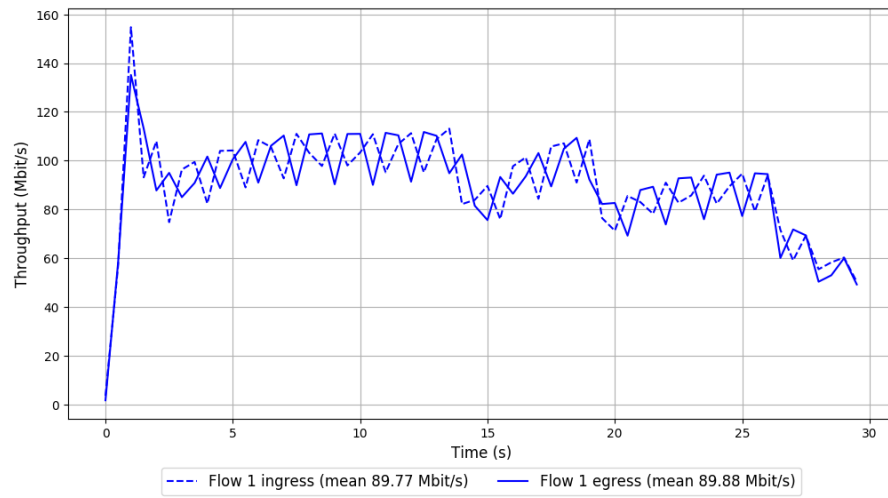
-- Flow 1:

Average throughput: 89.88 Mbit/s

95th percentile per-packet one-way delay: 55.541 ms

Loss rate: 0.24%

Run 8: Report of TCP Cubic — Data Link

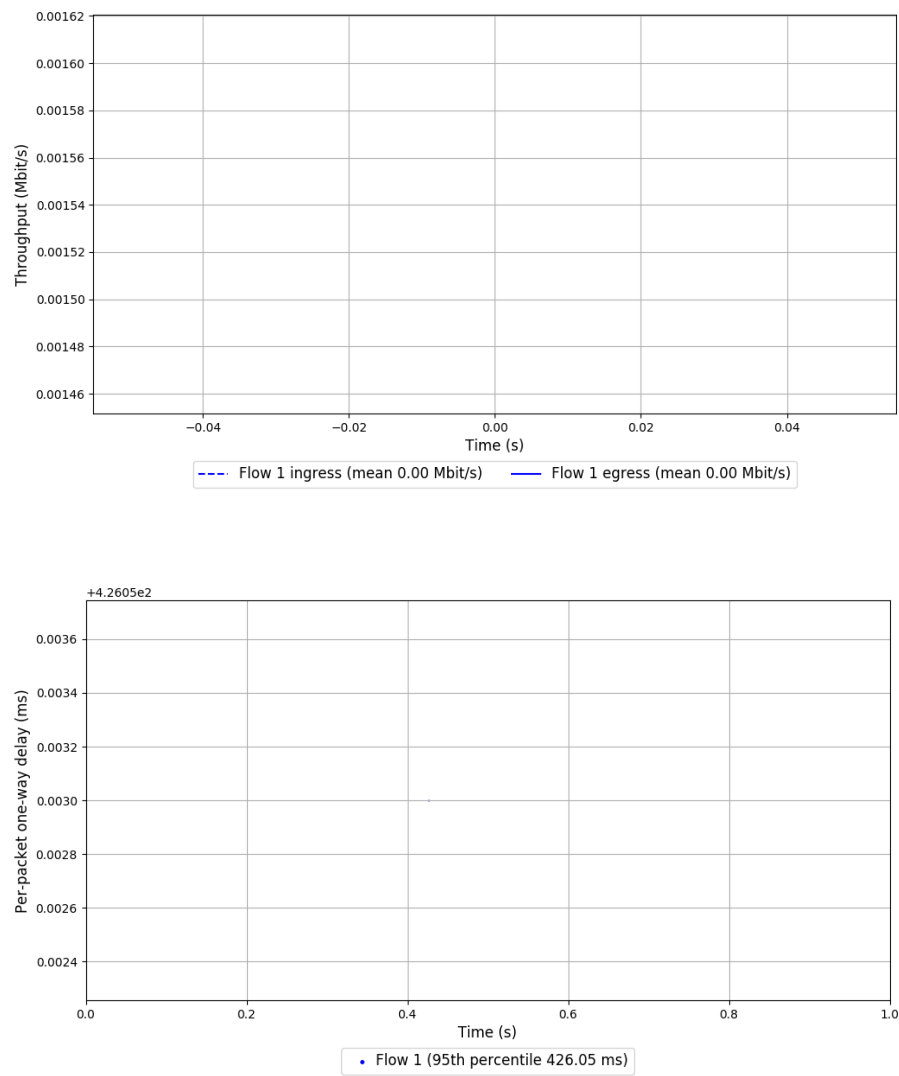


Run 9: Statistics of TCP Cubic

Start at: 2018-01-30 19:39:35

End at: 2018-01-30 19:40:05

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-30 19:53:33

End at: 2018-01-30 19:54:03

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.55 Mbit/s

95th percentile per-packet one-way delay: 55.825 ms

Loss rate: 0.32%

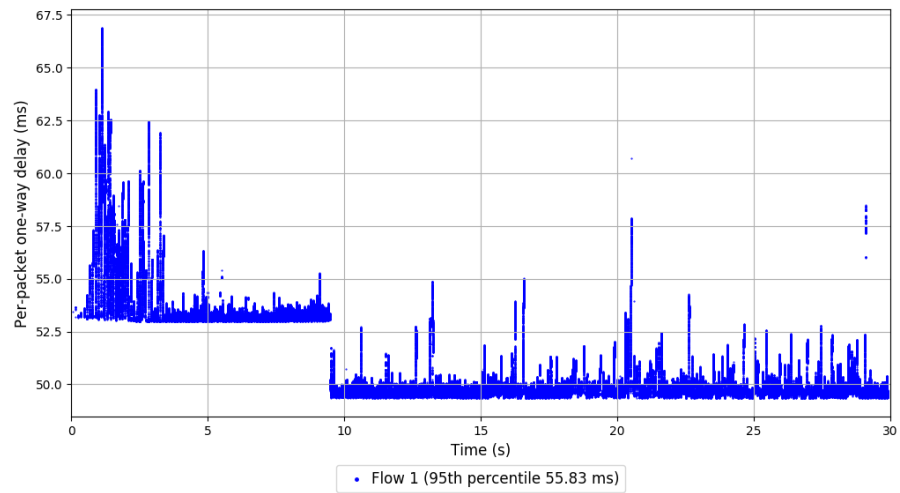
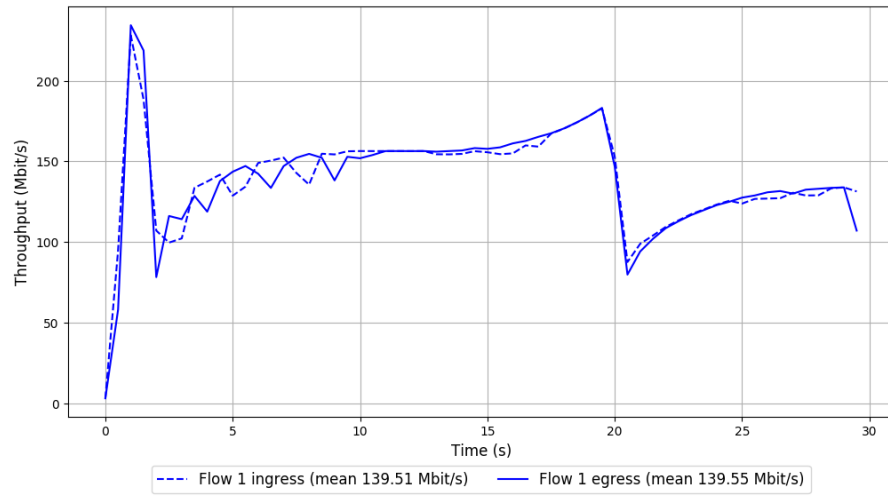
-- Flow 1:

Average throughput: 139.55 Mbit/s

95th percentile per-packet one-way delay: 55.825 ms

Loss rate: 0.32%

Run 10: Report of TCP Cubic — Data Link

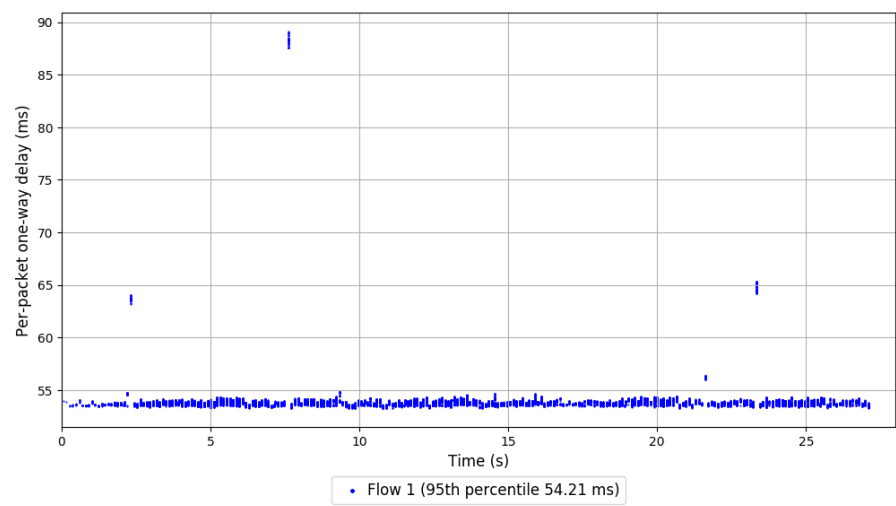
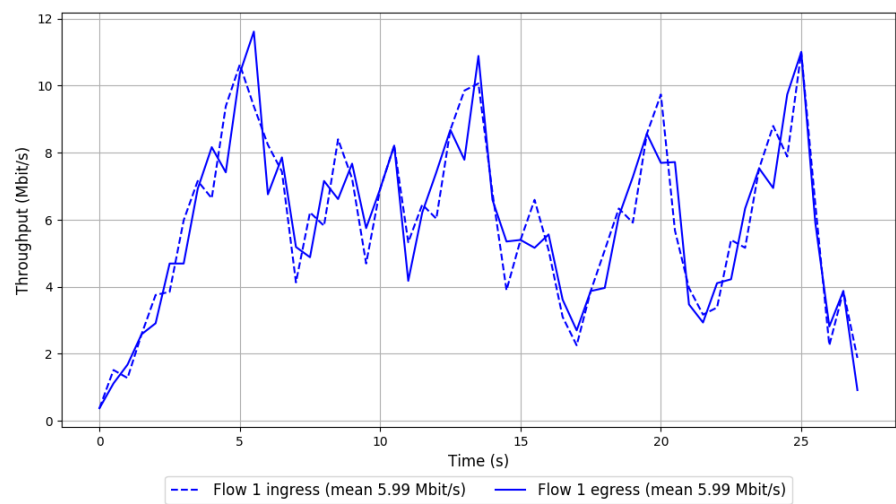


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-30 17:53:13
End at: 2018-01-30 17:53:43

# Below is generated by plot.py at 2018-01-30 22:37:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 54.210 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 5.99 Mbit/s
95th percentile per-packet one-way delay: 54.210 ms
Loss rate: 0.38%
```


Run 1: Report of LEDBAT — Data Link

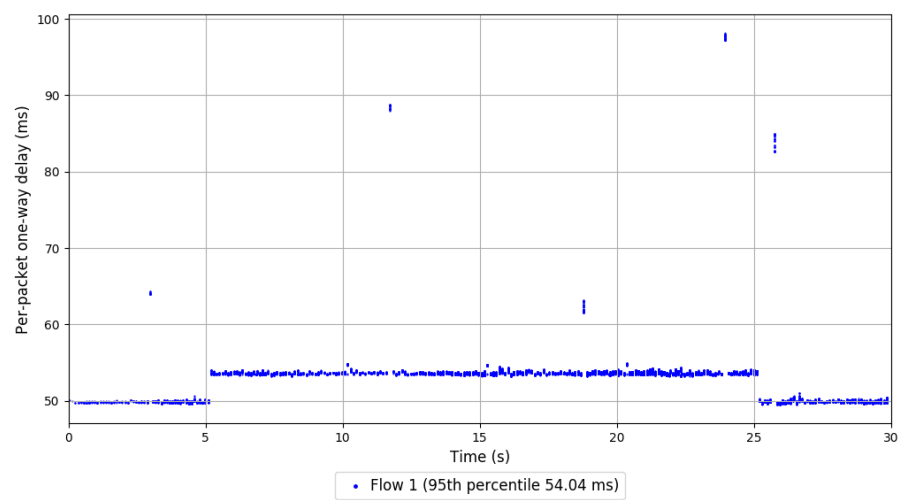
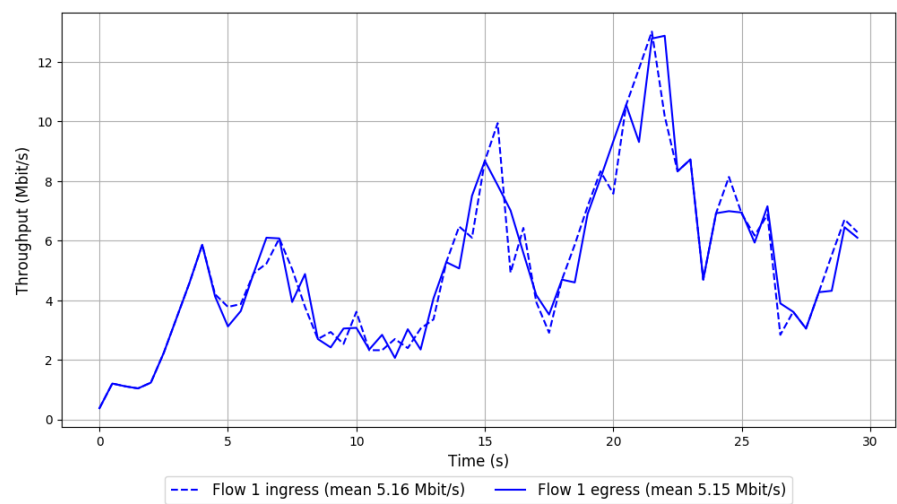


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-30 18:07:27
End at: 2018-01-30 18:07:57

# Below is generated by plot.py at 2018-01-30 22:37:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 54.041 ms
Loss rate: 0.56%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-30 18:21:43

End at: 2018-01-30 18:22:13

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 1.13%

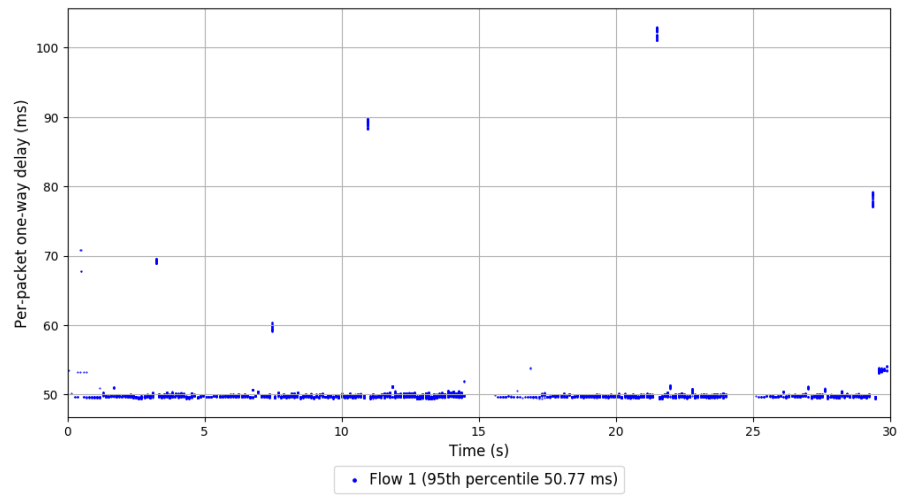
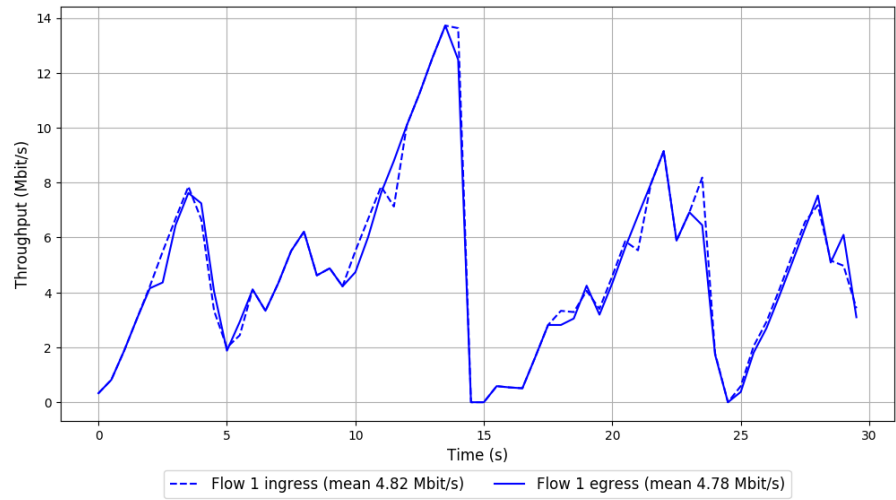
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 50.766 ms

Loss rate: 1.13%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-30 18:35:39

End at: 2018-01-30 18:36:09

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 2.32%

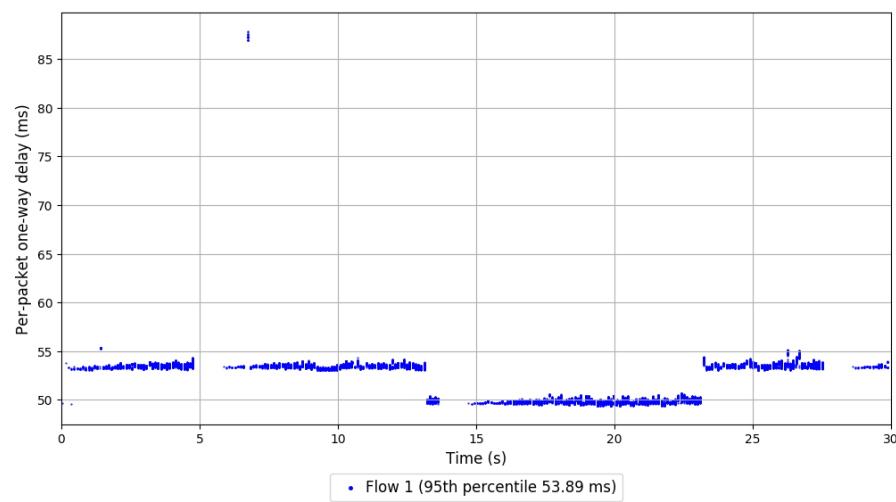
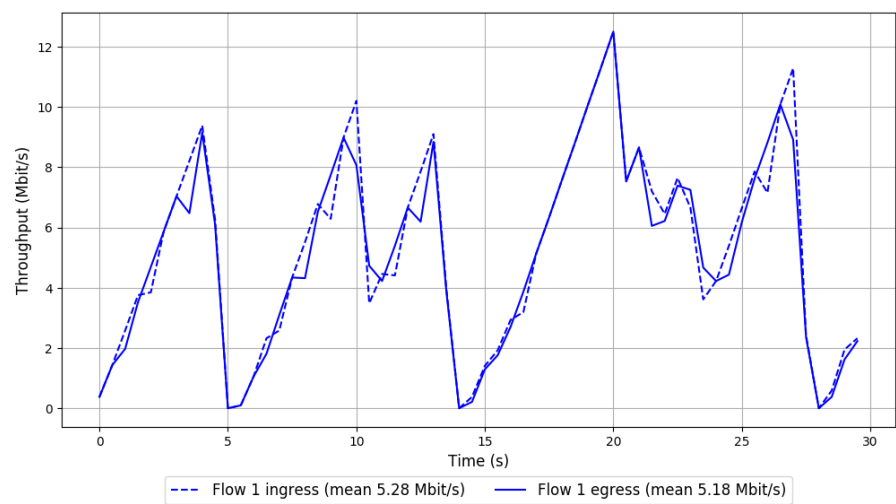
-- Flow 1:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 2.32%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-30 18:49:44

End at: 2018-01-30 18:50:14

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 2.60%

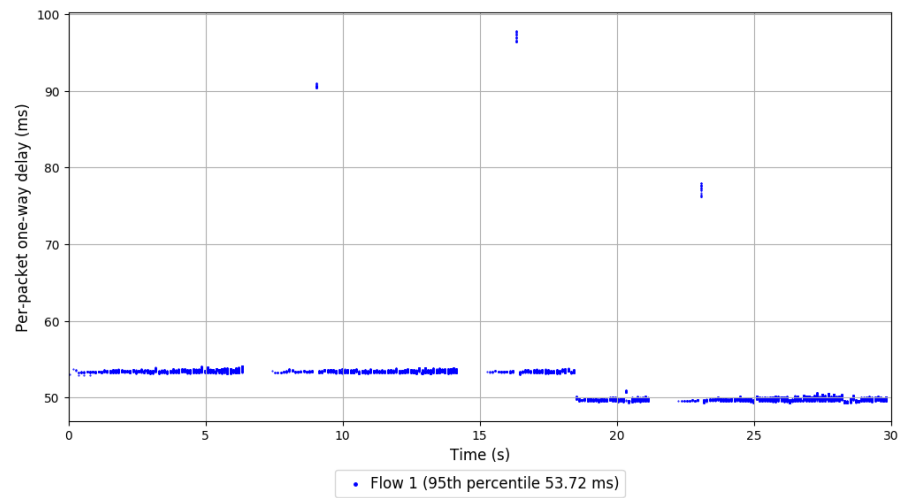
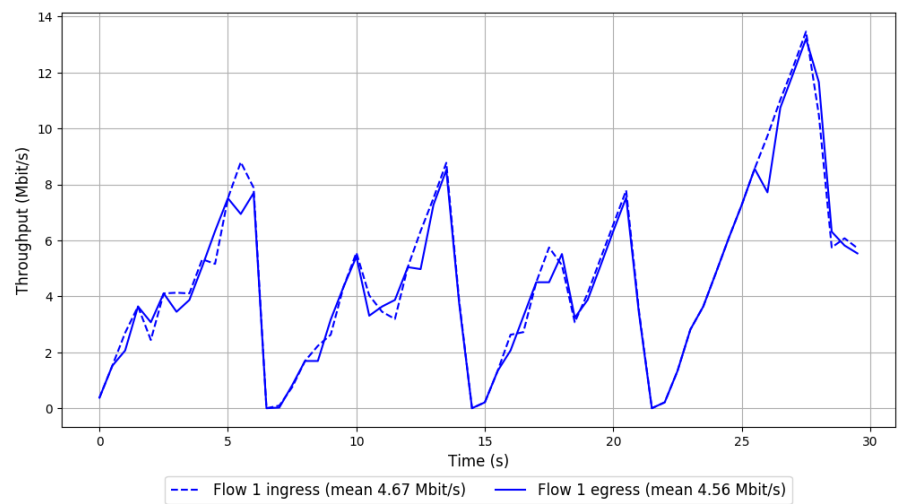
-- Flow 1:

Average throughput: 4.56 Mbit/s

95th percentile per-packet one-way delay: 53.719 ms

Loss rate: 2.60%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-30 19:04:01

End at: 2018-01-30 19:04:31

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 2.03%

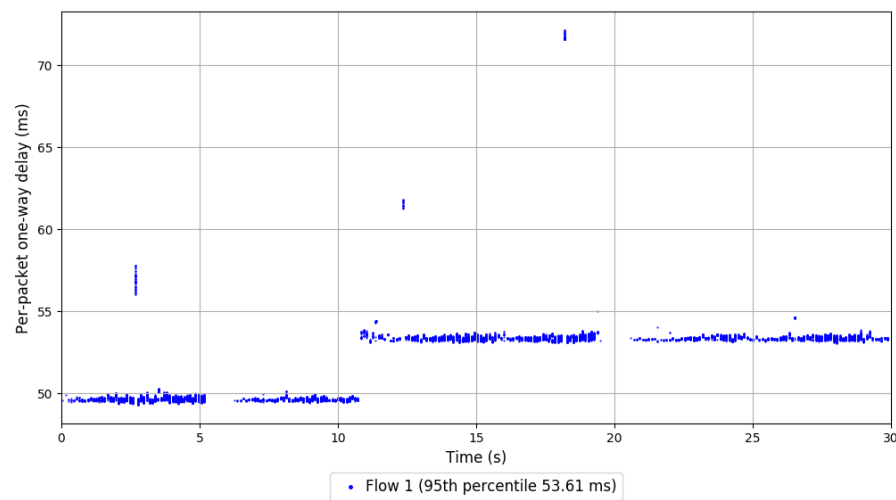
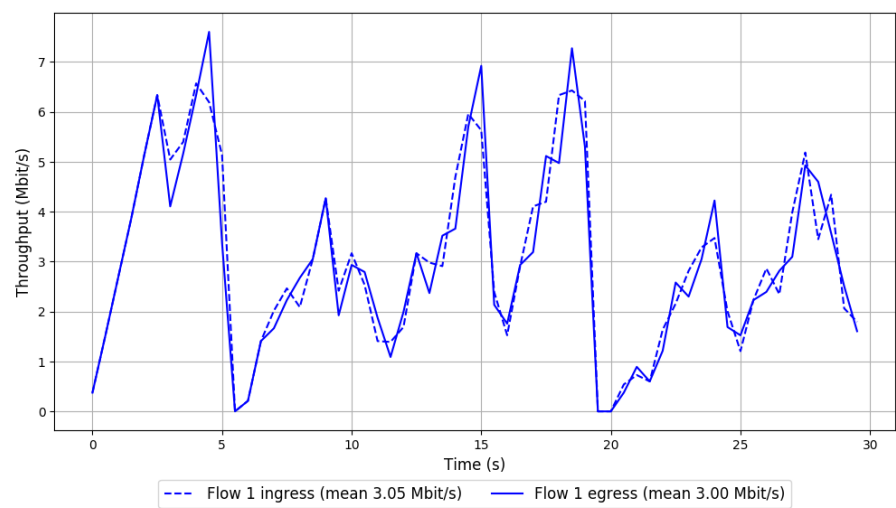
-- Flow 1:

Average throughput: 3.00 Mbit/s

95th percentile per-packet one-way delay: 53.609 ms

Loss rate: 2.03%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-30 19:18:05

End at: 2018-01-30 19:18:35

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 53.927 ms

Loss rate: 2.95%

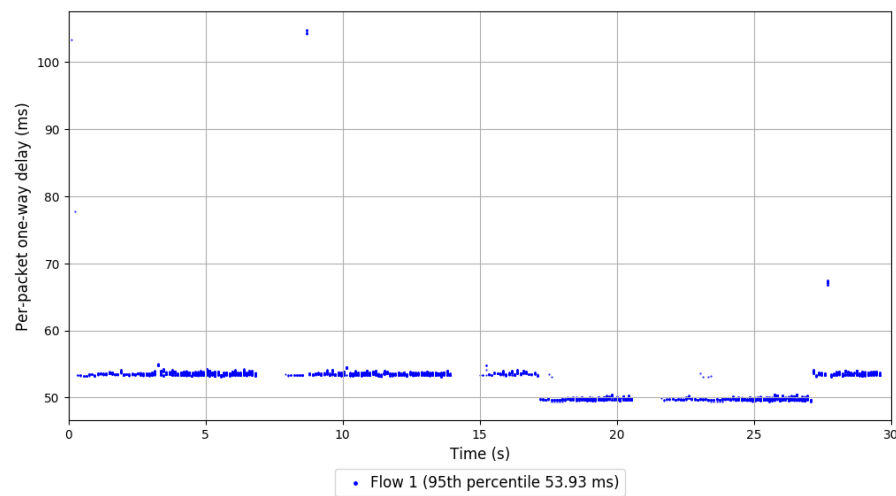
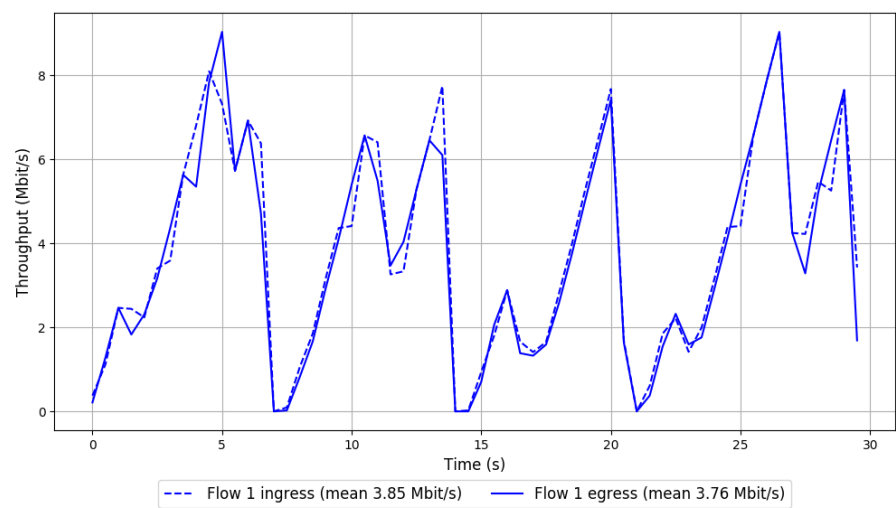
-- Flow 1:

Average throughput: 3.76 Mbit/s

95th percentile per-packet one-way delay: 53.927 ms

Loss rate: 2.95%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-30 19:32:06

End at: 2018-01-30 19:32:36

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 54.702 ms

Loss rate: 0.54%

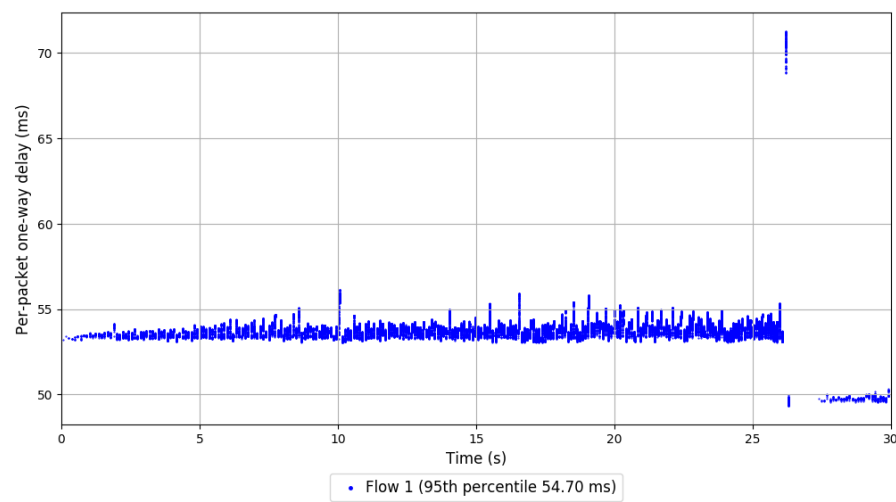
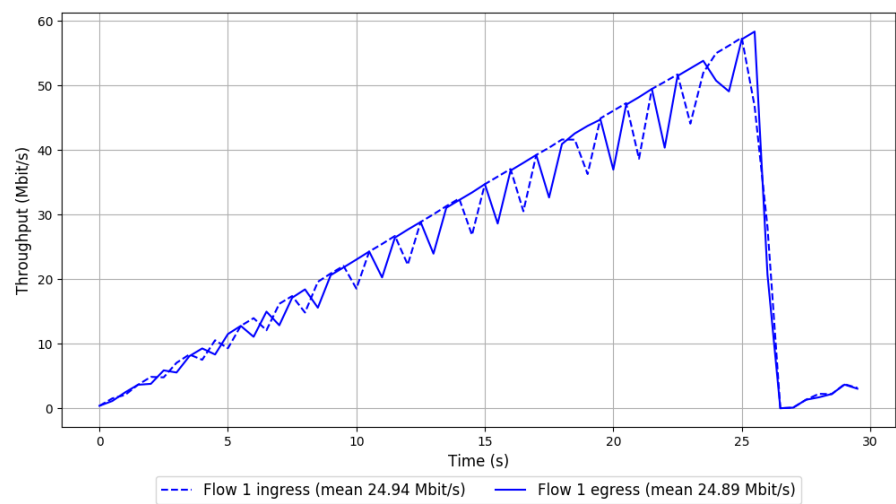
-- Flow 1:

Average throughput: 24.89 Mbit/s

95th percentile per-packet one-way delay: 54.702 ms

Loss rate: 0.54%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-30 19:46:03

End at: 2018-01-30 19:46:33

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 53.291 ms

Loss rate: 0.91%

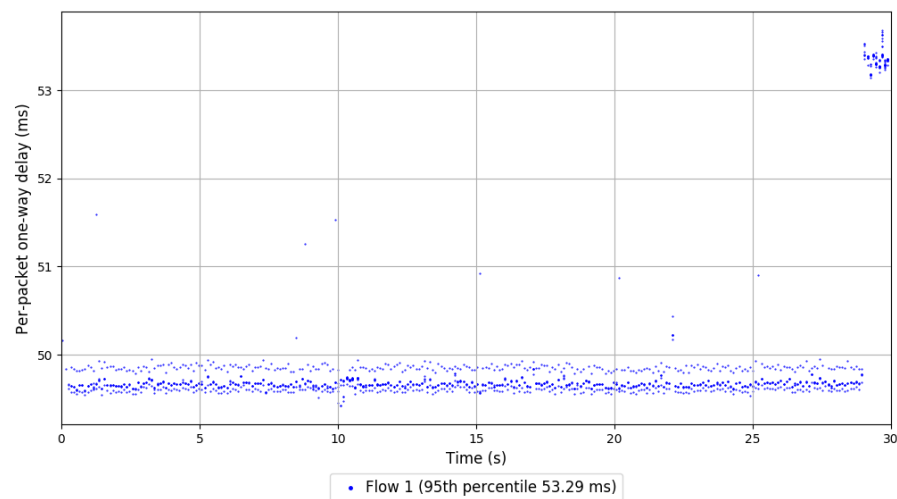
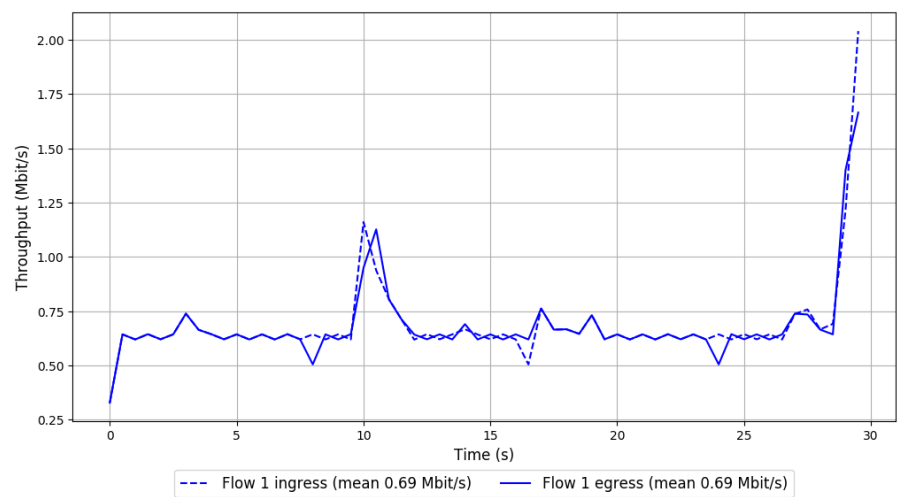
-- Flow 1:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 53.291 ms

Loss rate: 0.91%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-30 20:00:14

End at: 2018-01-30 20:00:44

Below is generated by plot.py at 2018-01-30 22:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 53.574 ms

Loss rate: 2.17%

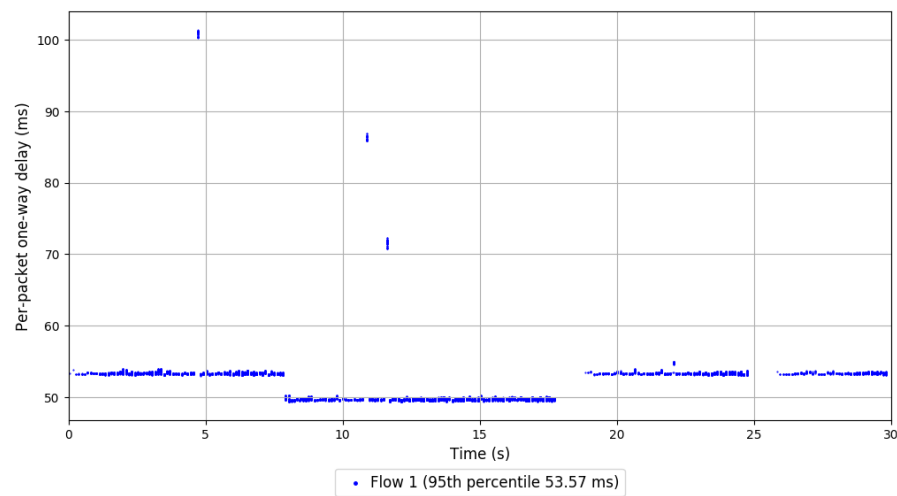
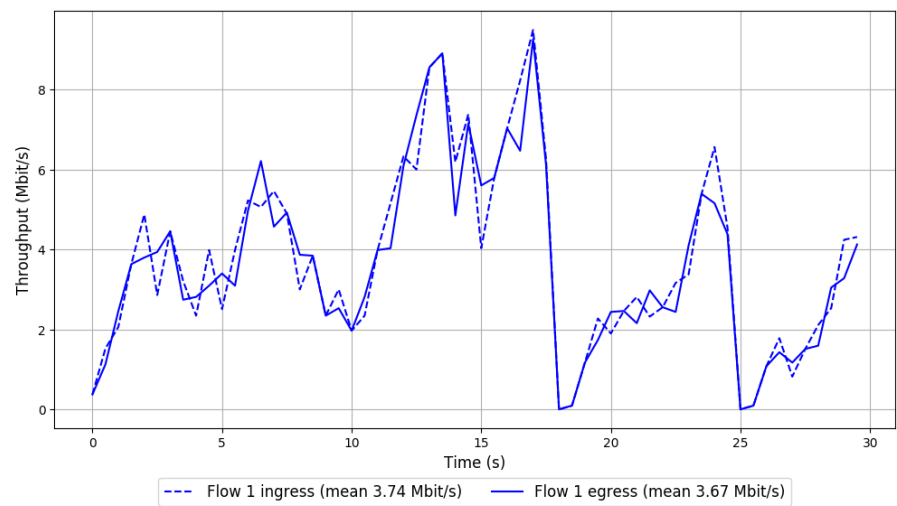
-- Flow 1:

Average throughput: 3.67 Mbit/s

95th percentile per-packet one-way delay: 53.574 ms

Loss rate: 2.17%

Run 10: Report of LEDBAT — Data Link

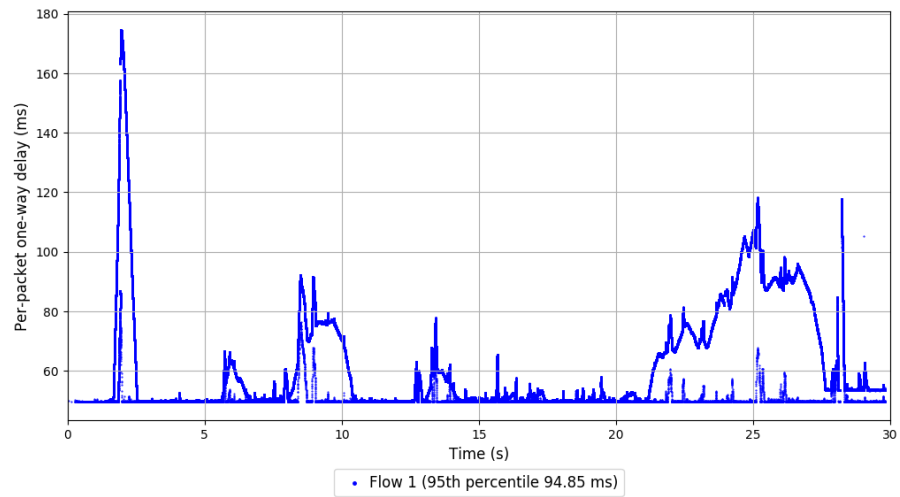
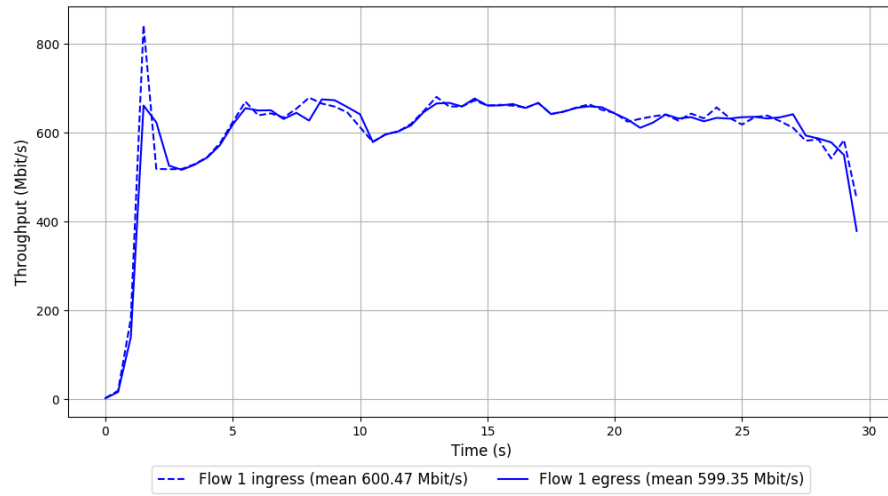


```
Run 1: Statistics of PCC

Start at: 2018-01-30 17:45:48
End at: 2018-01-30 17:46:18

# Below is generated by plot.py at 2018-01-30 22:45:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 599.35 Mbit/s
95th percentile per-packet one-way delay: 94.854 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 599.35 Mbit/s
95th percentile per-packet one-way delay: 94.854 ms
Loss rate: 0.56%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-30 17:59:46

End at: 2018-01-30 18:00:16

Below is generated by plot.py at 2018-01-30 22:45:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 556.44 Mbit/s

95th percentile per-packet one-way delay: 146.260 ms

Loss rate: 1.01%

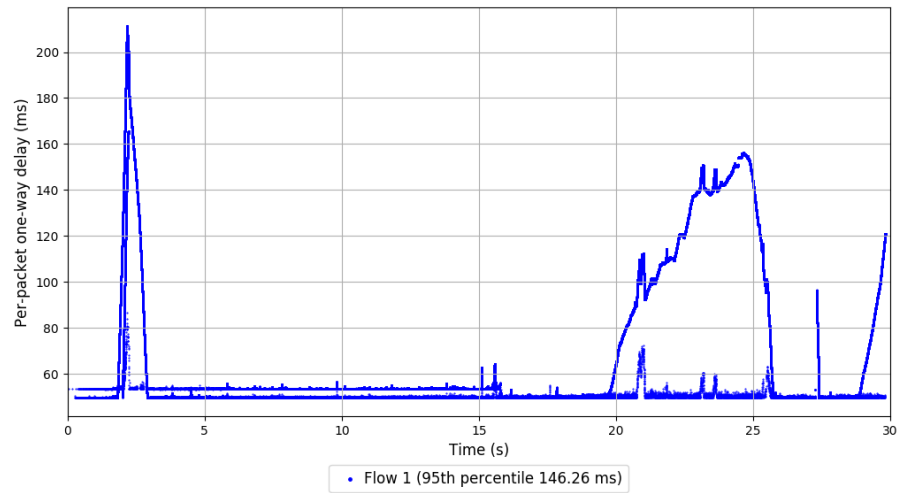
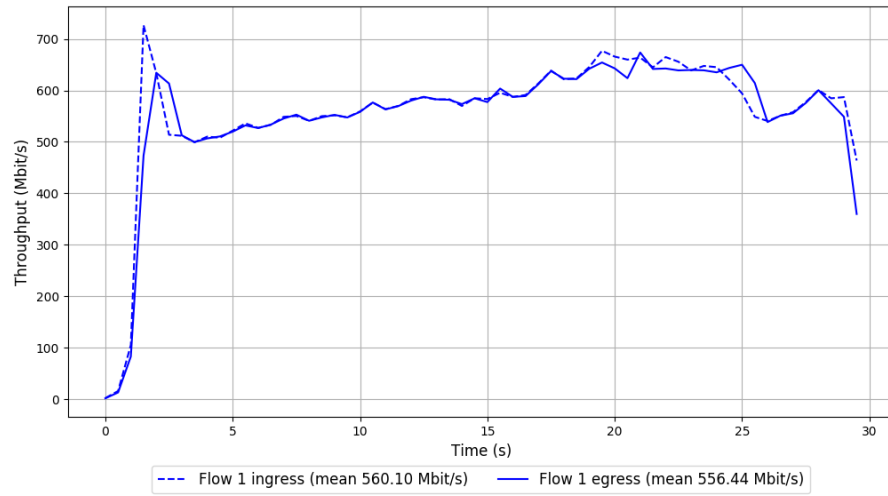
-- Flow 1:

Average throughput: 556.44 Mbit/s

95th percentile per-packet one-way delay: 146.260 ms

Loss rate: 1.01%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-30 18:13:58

End at: 2018-01-30 18:14:28

Below is generated by plot.py at 2018-01-30 22:45:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 609.95 Mbit/s

95th percentile per-packet one-way delay: 162.796 ms

Loss rate: 1.27%

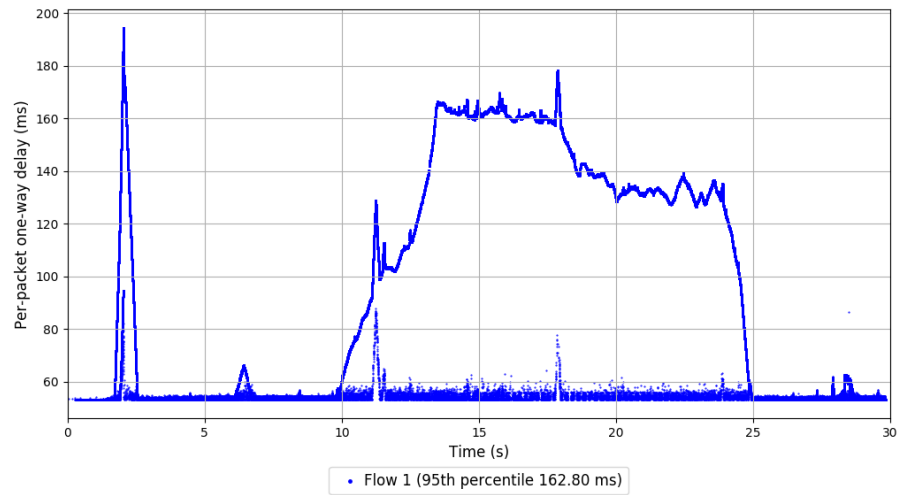
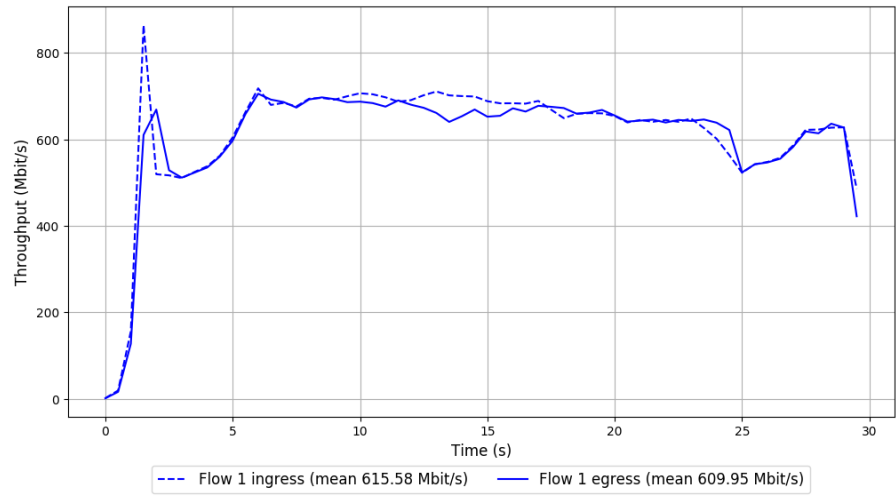
-- Flow 1:

Average throughput: 609.95 Mbit/s

95th percentile per-packet one-way delay: 162.796 ms

Loss rate: 1.27%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-30 18:28:09

End at: 2018-01-30 18:28:39

Below is generated by plot.py at 2018-01-30 22:45:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.40 Mbit/s

95th percentile per-packet one-way delay: 98.952 ms

Loss rate: 0.78%

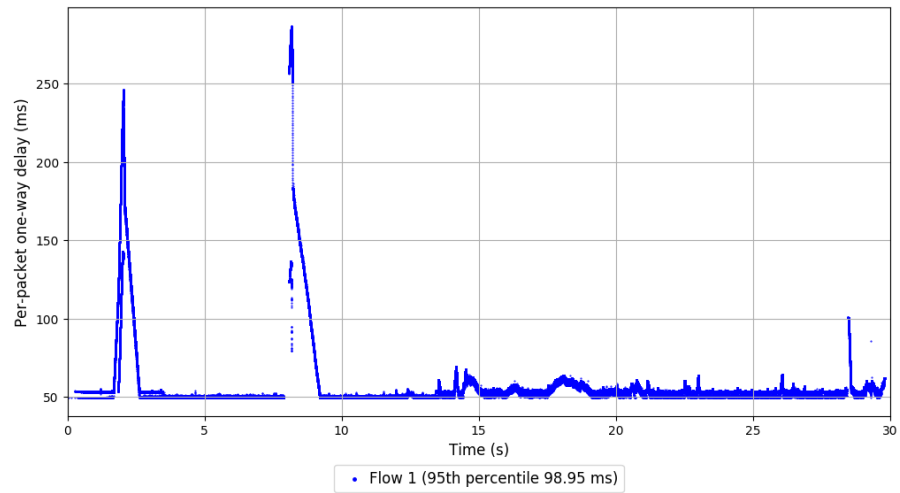
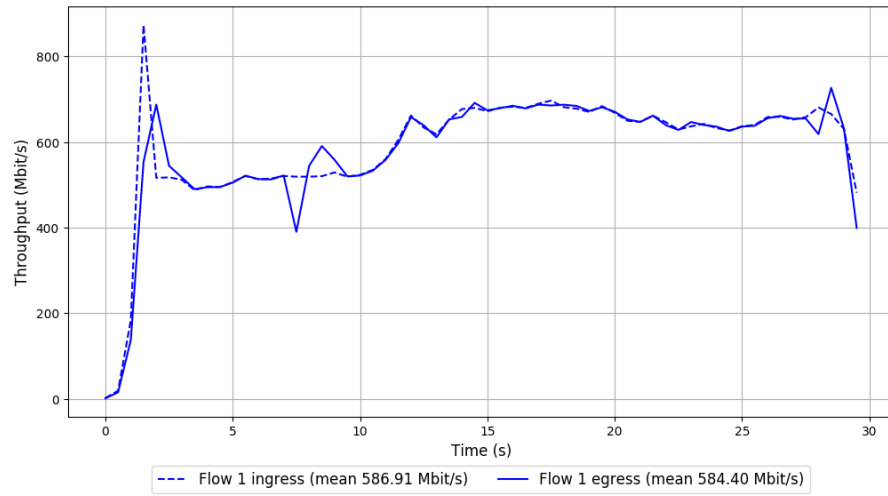
-- Flow 1:

Average throughput: 584.40 Mbit/s

95th percentile per-packet one-way delay: 98.952 ms

Loss rate: 0.78%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-30 18:42:15

End at: 2018-01-30 18:42:45

Below is generated by plot.py at 2018-01-30 22:45:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.95 Mbit/s

95th percentile per-packet one-way delay: 59.307 ms

Loss rate: 0.66%

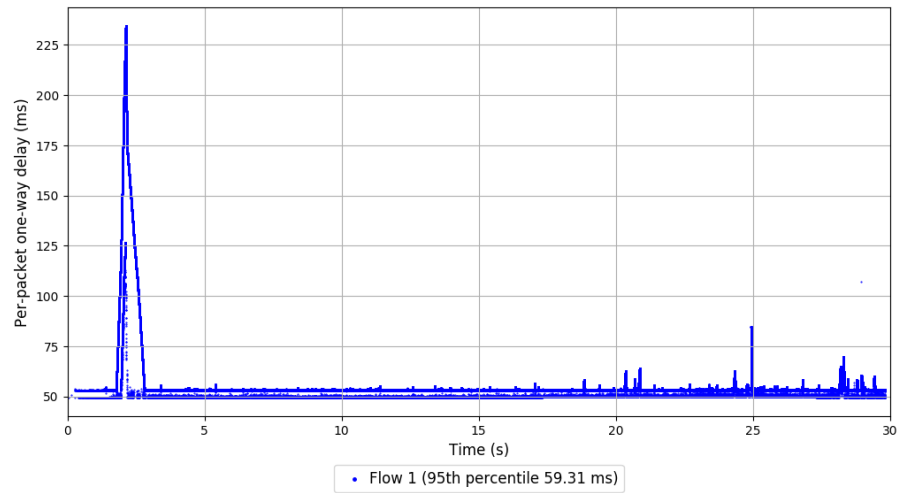
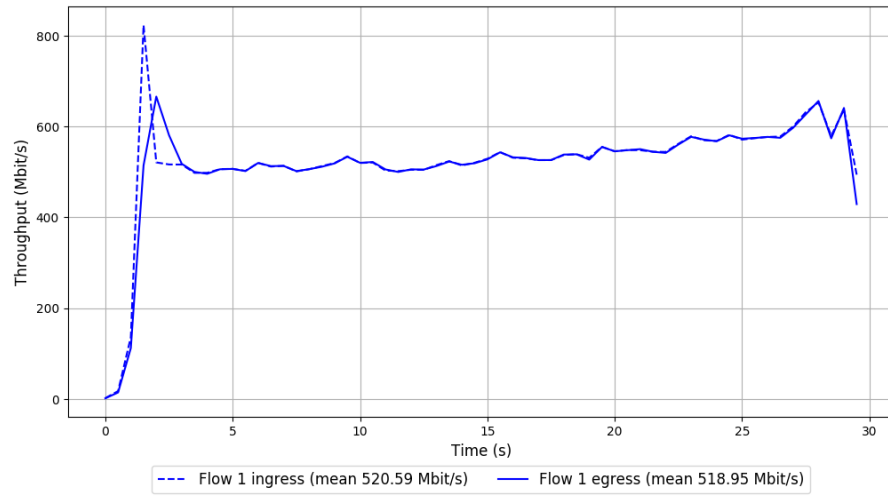
-- Flow 1:

Average throughput: 518.95 Mbit/s

95th percentile per-packet one-way delay: 59.307 ms

Loss rate: 0.66%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-01-30 18:56:18

End at: 2018-01-30 18:56:48

Below is generated by plot.py at 2018-01-30 22:46:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 596.05 Mbit/s

95th percentile per-packet one-way delay: 74.052 ms

Loss rate: 0.85%

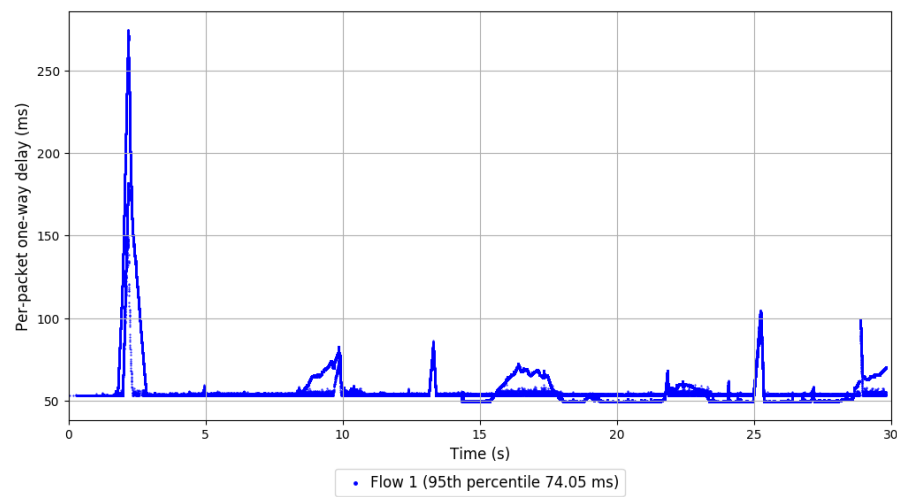
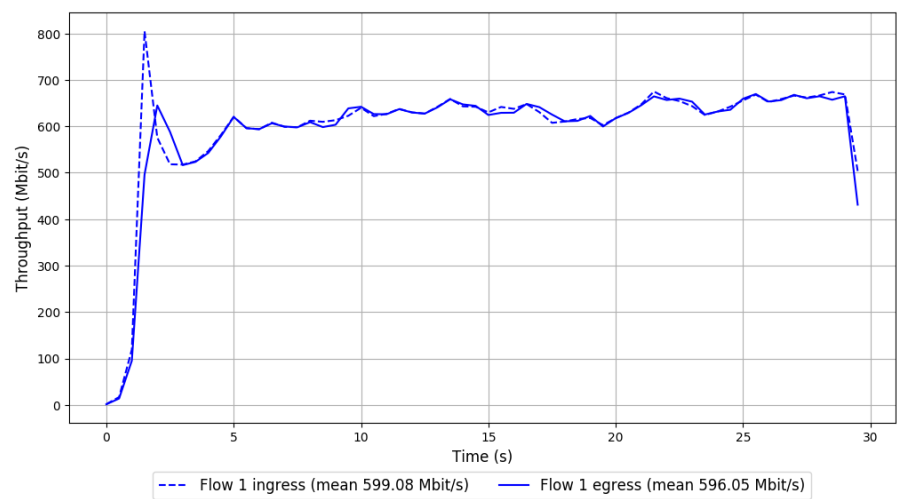
-- Flow 1:

Average throughput: 596.05 Mbit/s

95th percentile per-packet one-way delay: 74.052 ms

Loss rate: 0.85%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-01-30 19:10:34

End at: 2018-01-30 19:11:04

Below is generated by plot.py at 2018-01-30 22:46:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 589.37 Mbit/s

95th percentile per-packet one-way delay: 157.543 ms

Loss rate: 1.05%

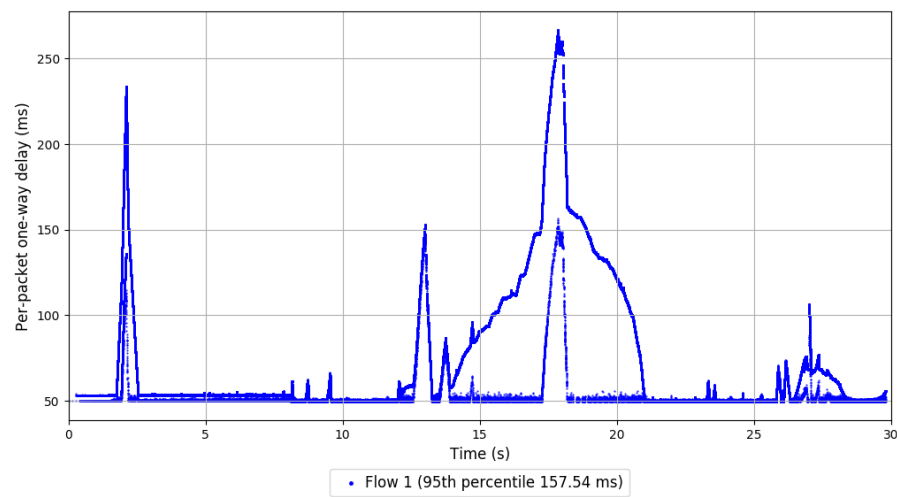
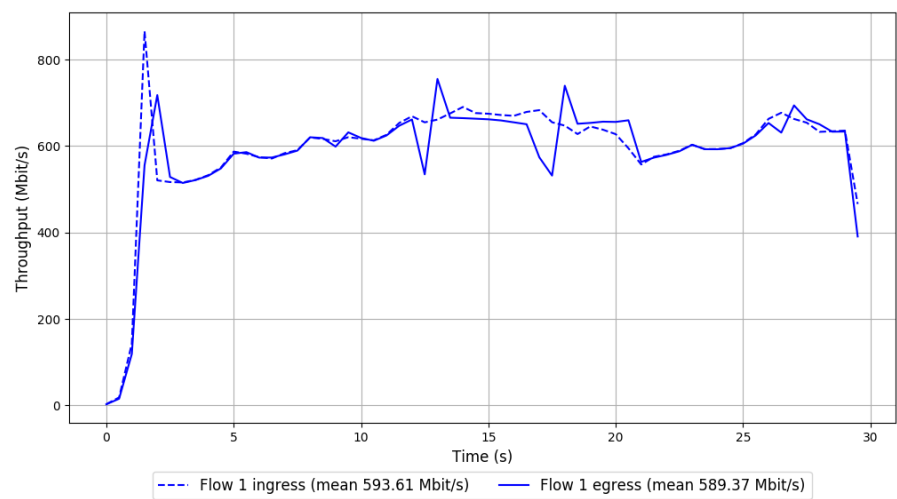
-- Flow 1:

Average throughput: 589.37 Mbit/s

95th percentile per-packet one-way delay: 157.543 ms

Loss rate: 1.05%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-30 19:24:37

End at: 2018-01-30 19:25:07

Below is generated by plot.py at 2018-01-30 22:46:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 605.76 Mbit/s

95th percentile per-packet one-way delay: 163.270 ms

Loss rate: 1.20%

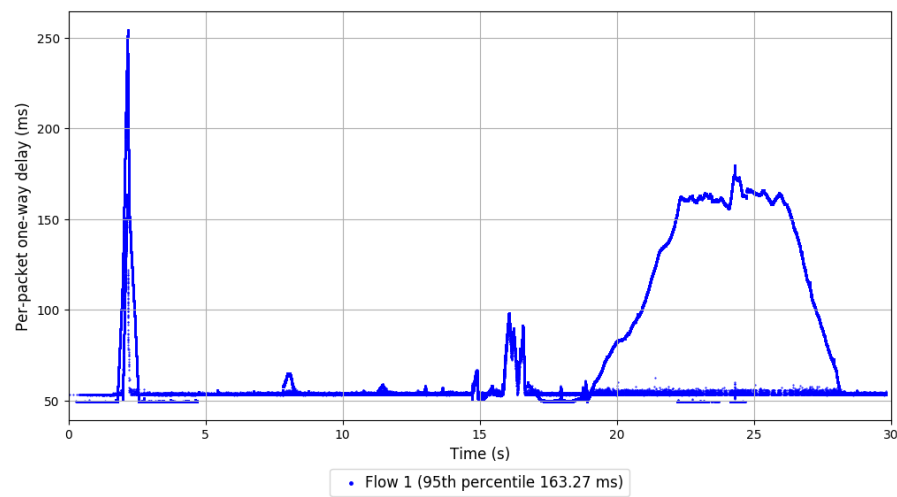
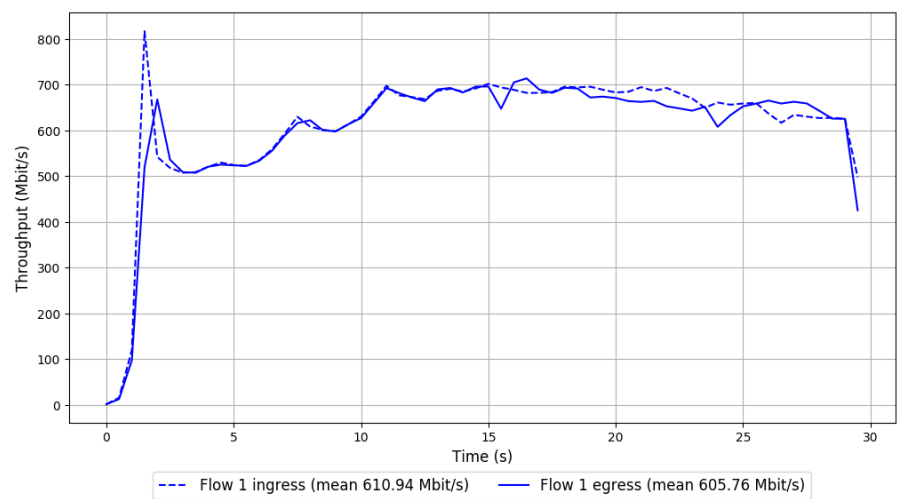
-- Flow 1:

Average throughput: 605.76 Mbit/s

95th percentile per-packet one-way delay: 163.270 ms

Loss rate: 1.20%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-30 19:38:38

End at: 2018-01-30 19:39:08

Below is generated by plot.py at 2018-01-30 22:54:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 596.85 Mbit/s

95th percentile per-packet one-way delay: 170.620 ms

Loss rate: 2.20%

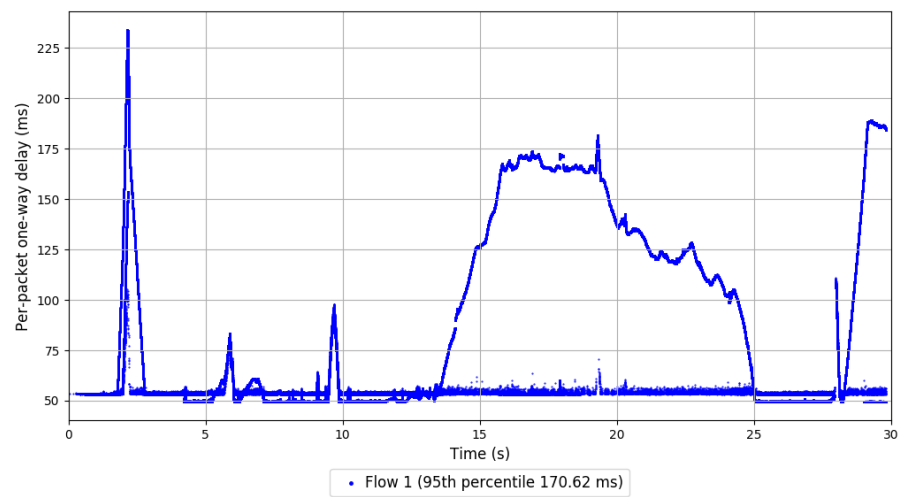
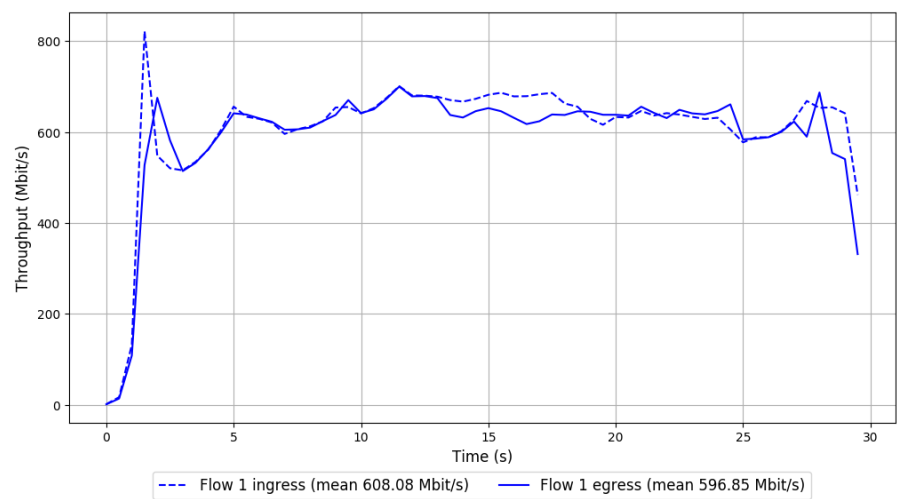
-- Flow 1:

Average throughput: 596.85 Mbit/s

95th percentile per-packet one-way delay: 170.620 ms

Loss rate: 2.20%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-30 19:52:36

End at: 2018-01-30 19:53:06

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 605.59 Mbit/s

95th percentile per-packet one-way delay: 107.805 ms

Loss rate: 0.68%

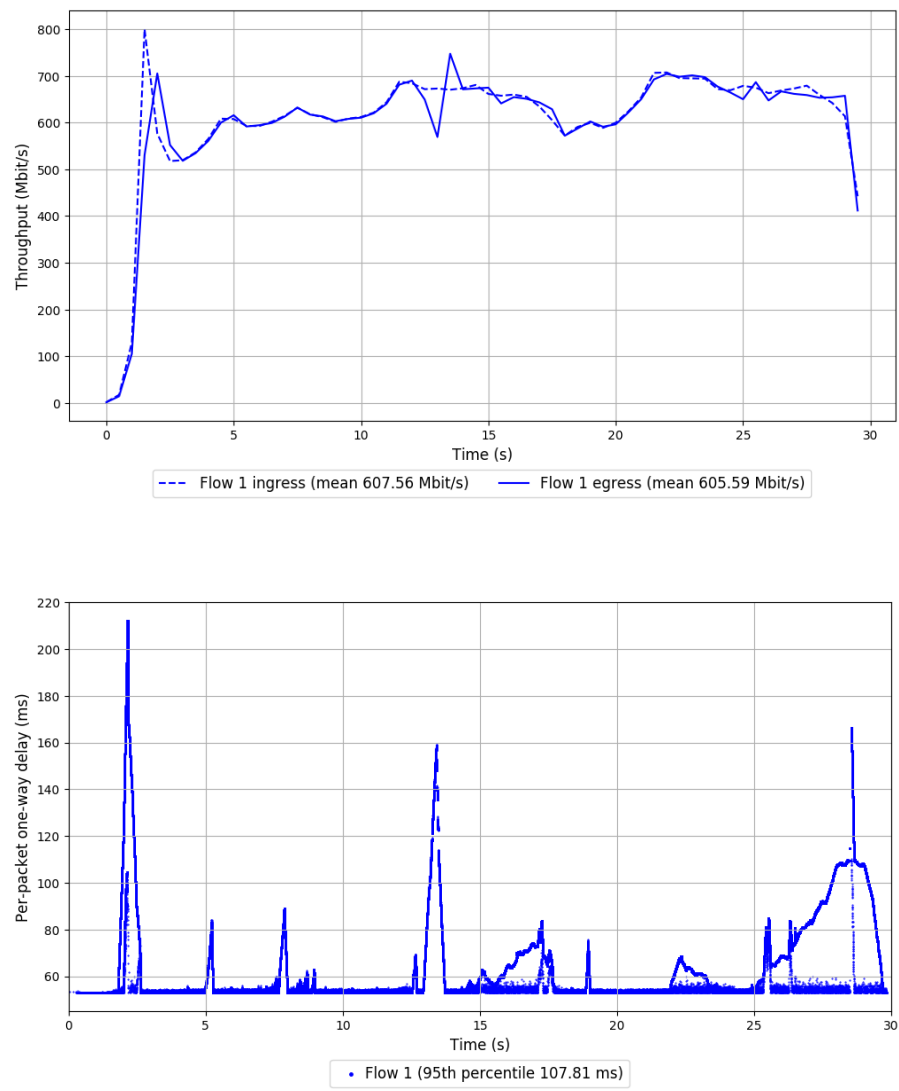
-- Flow 1:

Average throughput: 605.59 Mbit/s

95th percentile per-packet one-way delay: 107.805 ms

Loss rate: 0.68%

Run 10: Report of PCC — Data Link

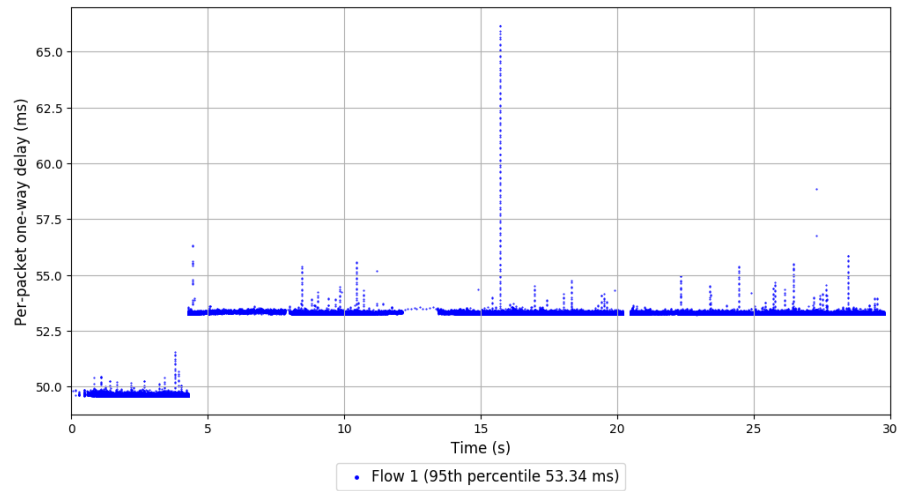
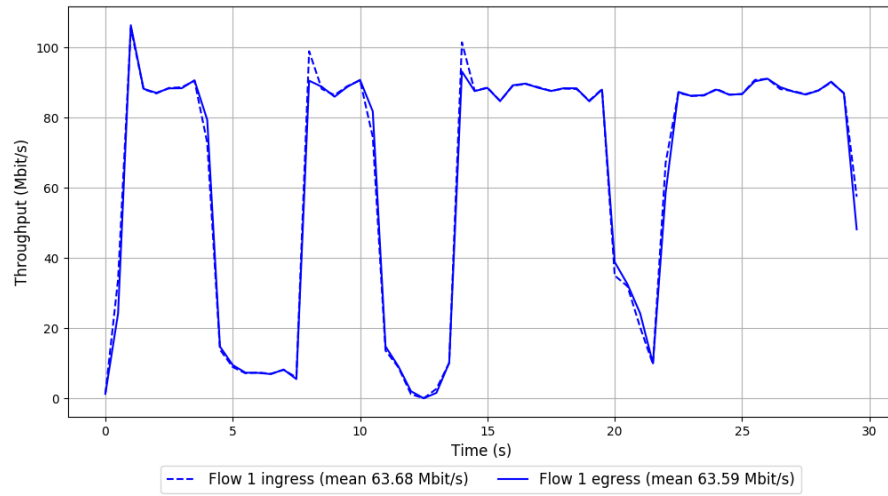


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-30 17:44:28
End at: 2018-01-30 17:44:58

# Below is generated by plot.py at 2018-01-30 22:55:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.59 Mbit/s
95th percentile per-packet one-way delay: 53.338 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 63.59 Mbit/s
95th percentile per-packet one-way delay: 53.338 ms
Loss rate: 0.49%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-30 17:58:24

End at: 2018-01-30 17:58:54

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 53.282 ms

Loss rate: 0.43%

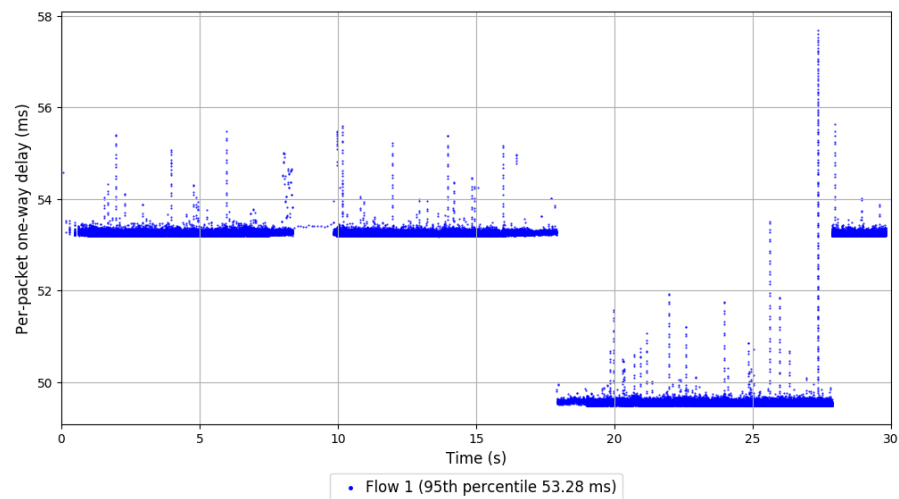
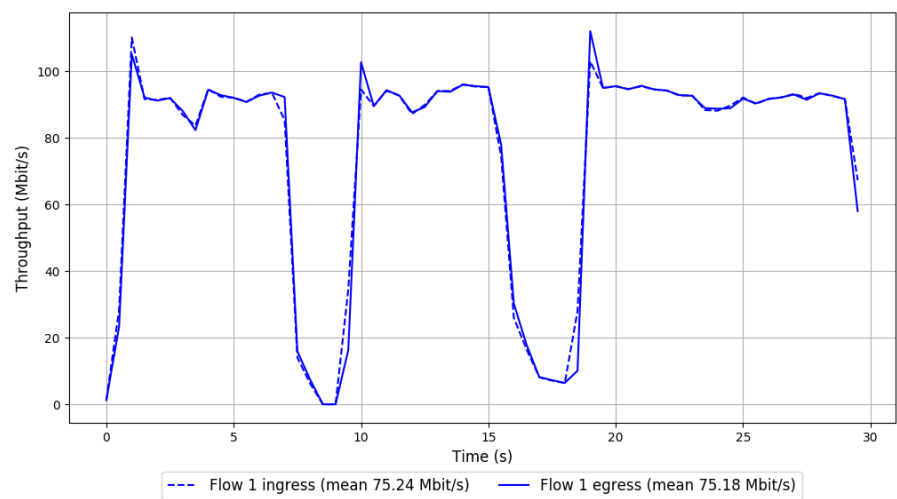
-- Flow 1:

Average throughput: 75.18 Mbit/s

95th percentile per-packet one-way delay: 53.282 ms

Loss rate: 0.43%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-30 18:12:38

End at: 2018-01-30 18:13:08

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 53.251 ms

Loss rate: 0.55%

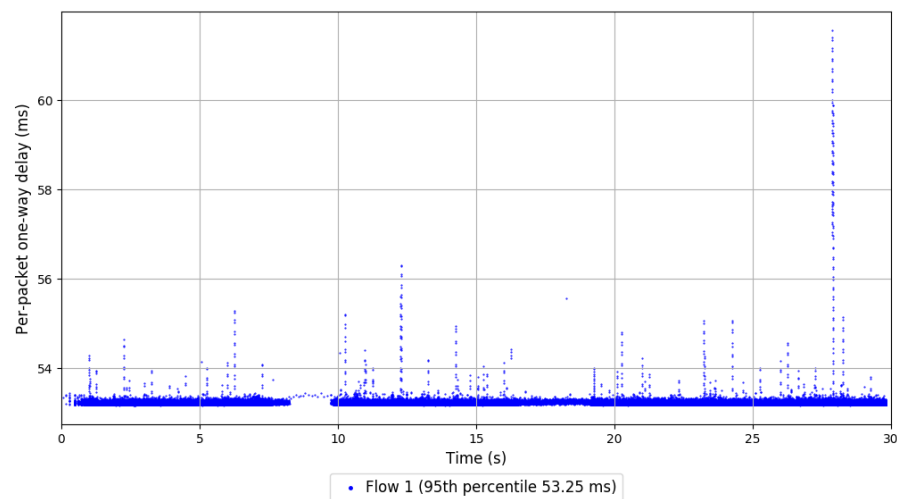
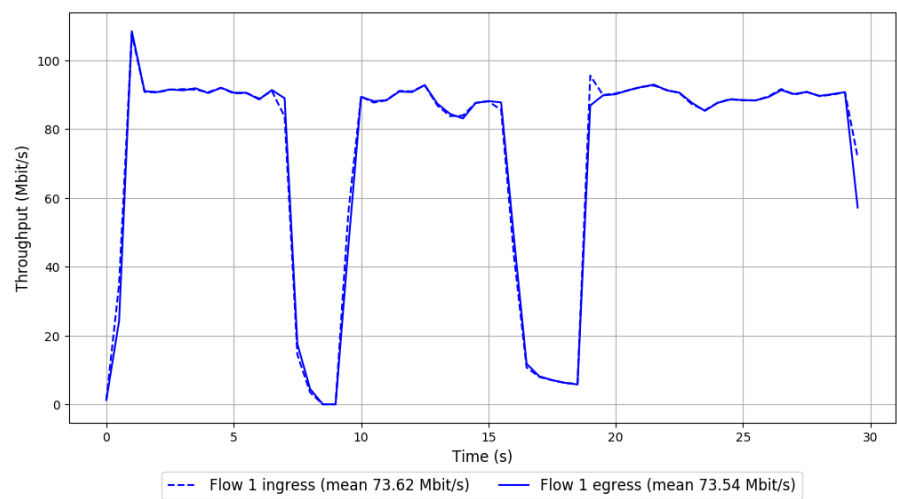
-- Flow 1:

Average throughput: 73.54 Mbit/s

95th percentile per-packet one-way delay: 53.251 ms

Loss rate: 0.55%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-30 18:26:49

End at: 2018-01-30 18:27:19

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.69 Mbit/s

95th percentile per-packet one-way delay: 52.798 ms

Loss rate: 0.37%

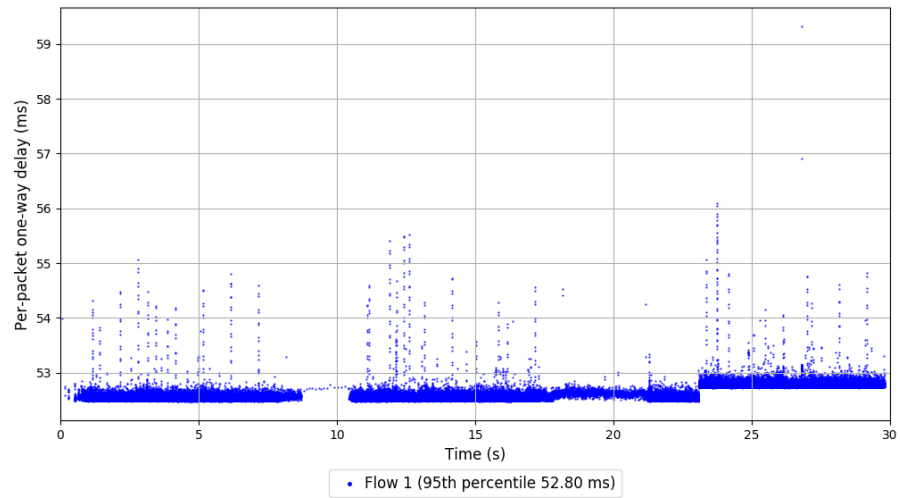
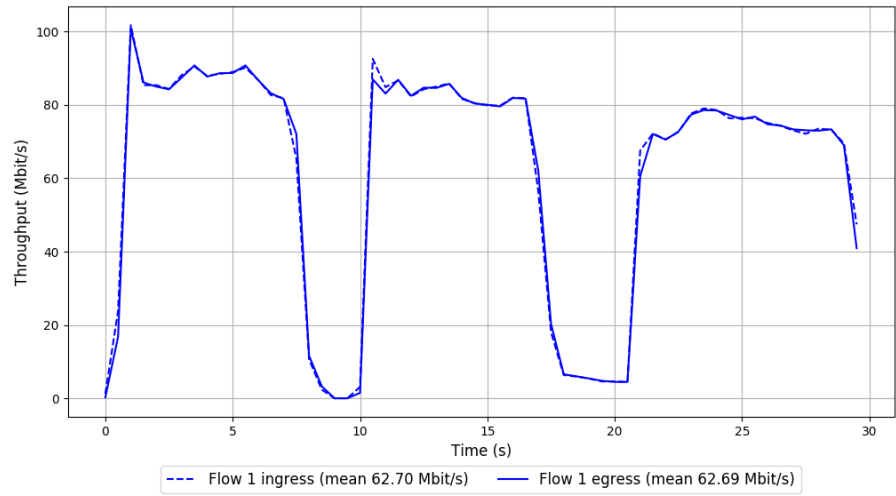
-- Flow 1:

Average throughput: 62.69 Mbit/s

95th percentile per-packet one-way delay: 52.798 ms

Loss rate: 0.37%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-30 18:40:52

End at: 2018-01-30 18:41:22

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.42 Mbit/s

95th percentile per-packet one-way delay: 53.052 ms

Loss rate: 0.02%

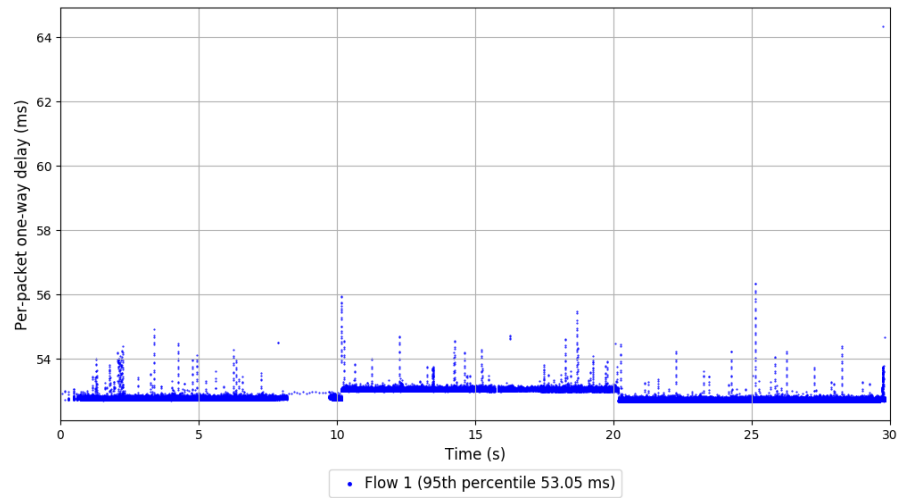
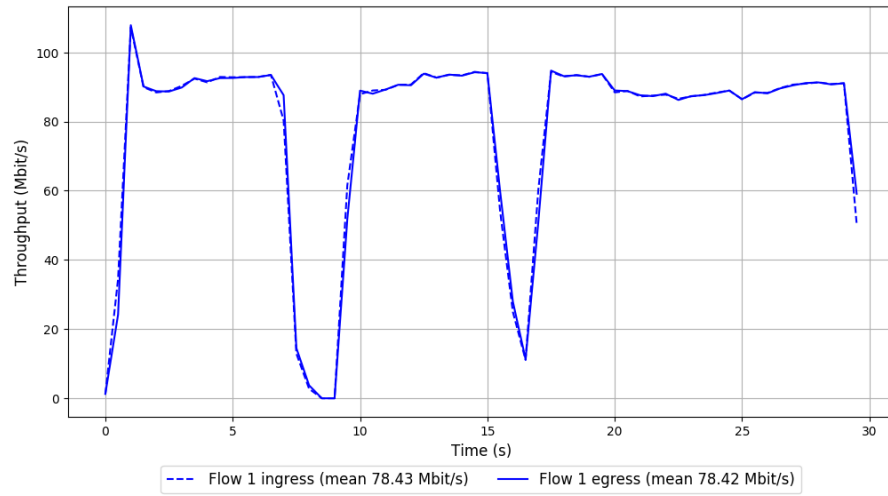
-- Flow 1:

Average throughput: 78.42 Mbit/s

95th percentile per-packet one-way delay: 53.052 ms

Loss rate: 0.02%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-30 18:54:56

End at: 2018-01-30 18:55:26

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 49.730 ms

Loss rate: 0.44%

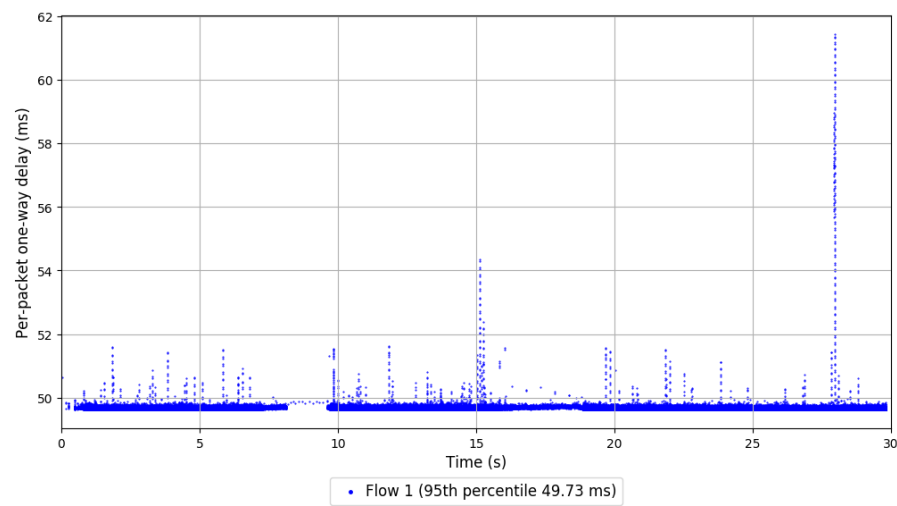
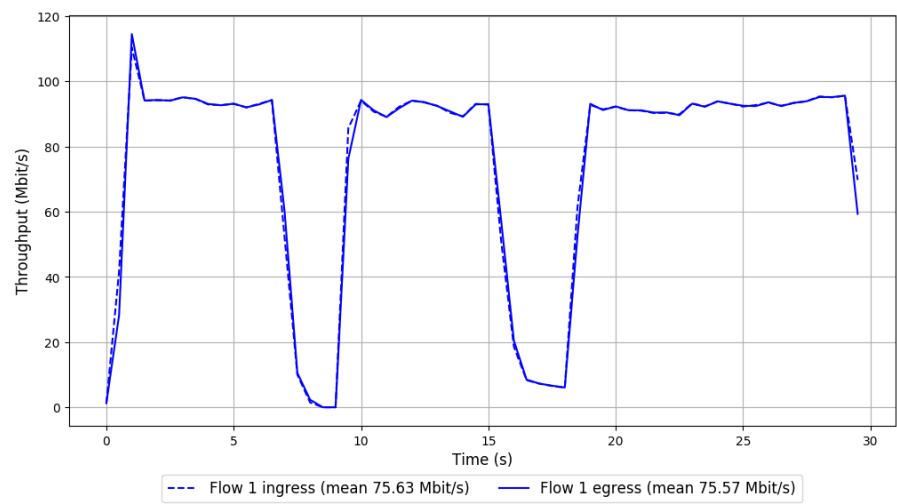
-- Flow 1:

Average throughput: 75.57 Mbit/s

95th percentile per-packet one-way delay: 49.730 ms

Loss rate: 0.44%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-30 19:09:12

End at: 2018-01-30 19:09:42

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 49.658 ms

Loss rate: 0.42%

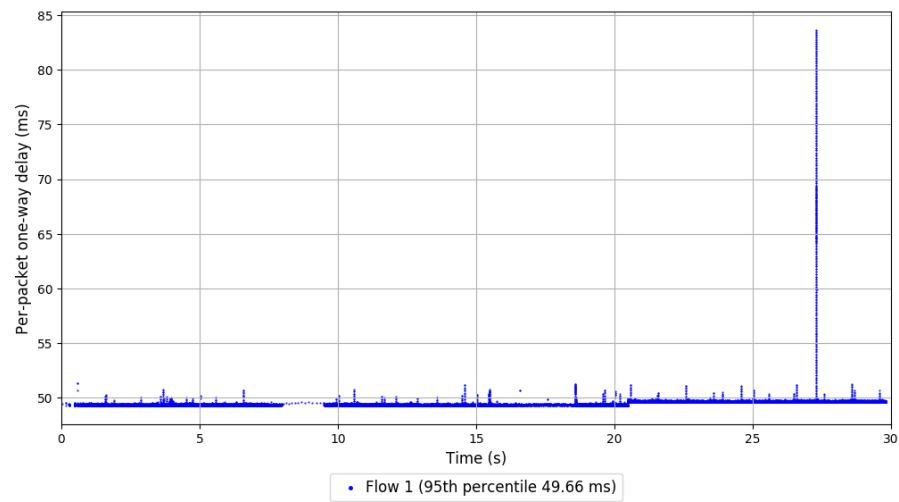
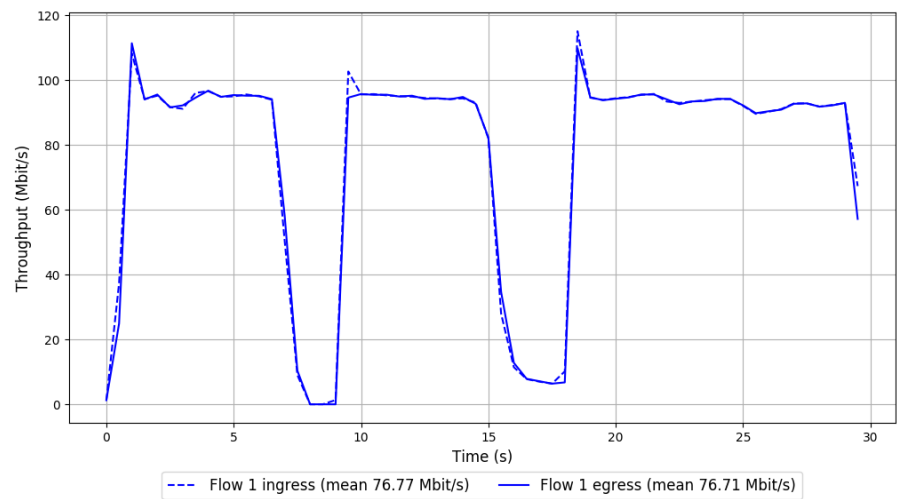
-- Flow 1:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 49.658 ms

Loss rate: 0.42%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-30 19:23:18

End at: 2018-01-30 19:23:48

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 53.045 ms

Loss rate: 0.46%

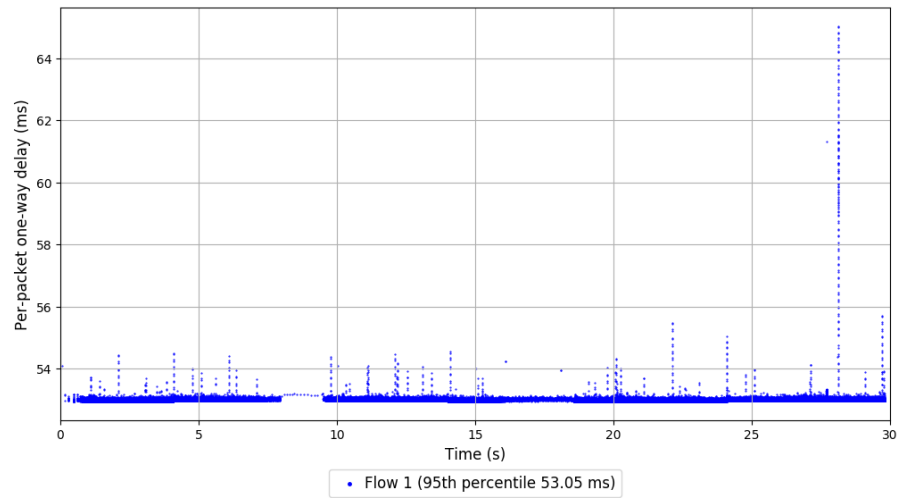
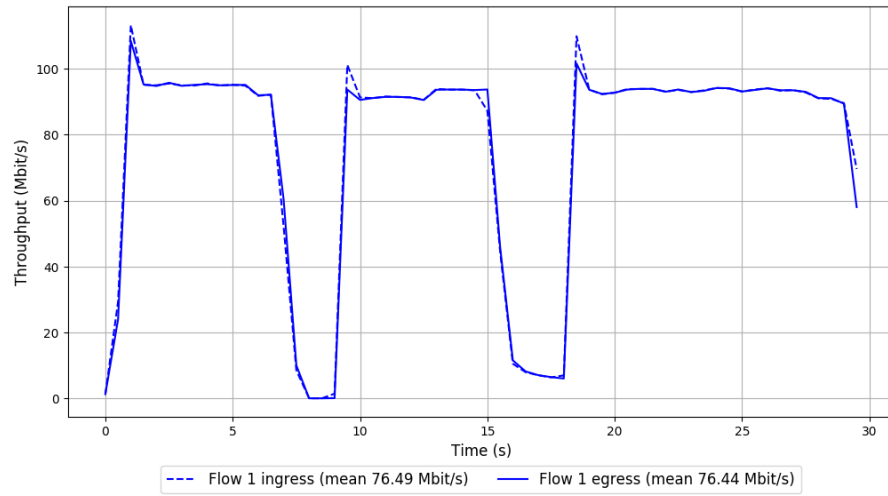
-- Flow 1:

Average throughput: 76.44 Mbit/s

95th percentile per-packet one-way delay: 53.045 ms

Loss rate: 0.46%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-30 19:37:19

End at: 2018-01-30 19:37:49

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.54 Mbit/s

95th percentile per-packet one-way delay: 53.130 ms

Loss rate: 0.45%

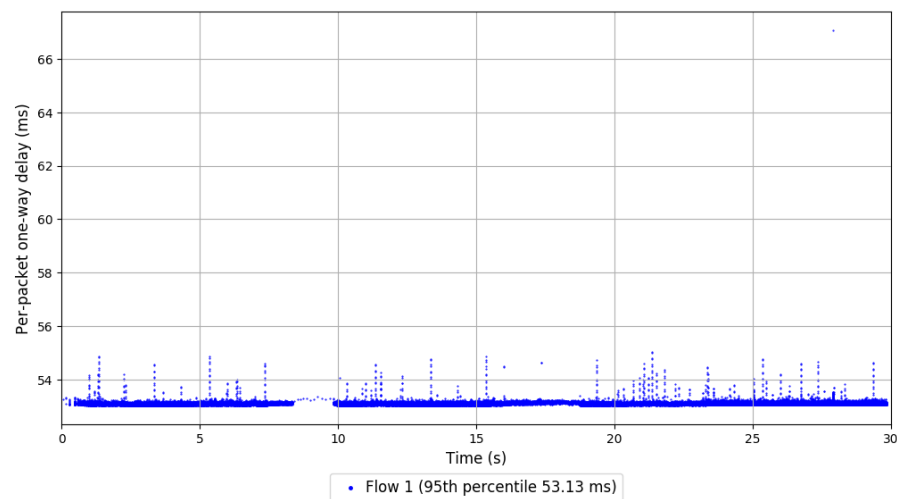
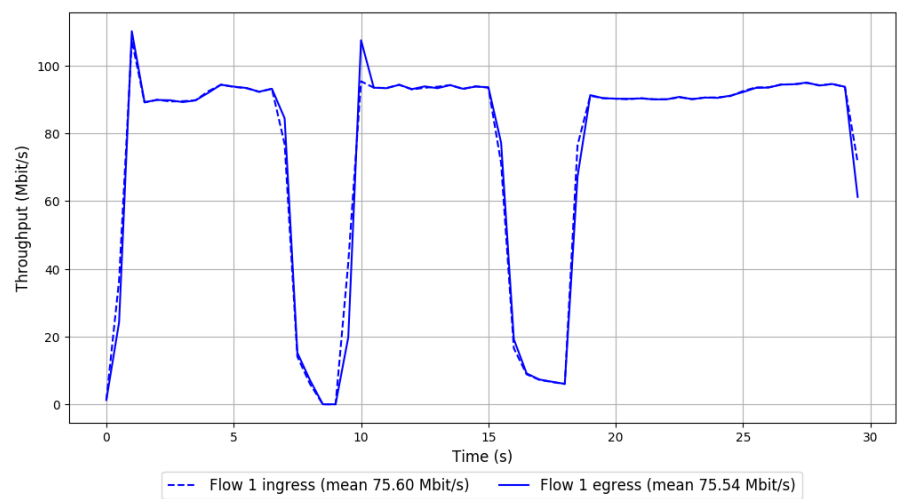
-- Flow 1:

Average throughput: 75.54 Mbit/s

95th percentile per-packet one-way delay: 53.130 ms

Loss rate: 0.45%

Run 9: Report of QUIC Cubic — Data Link

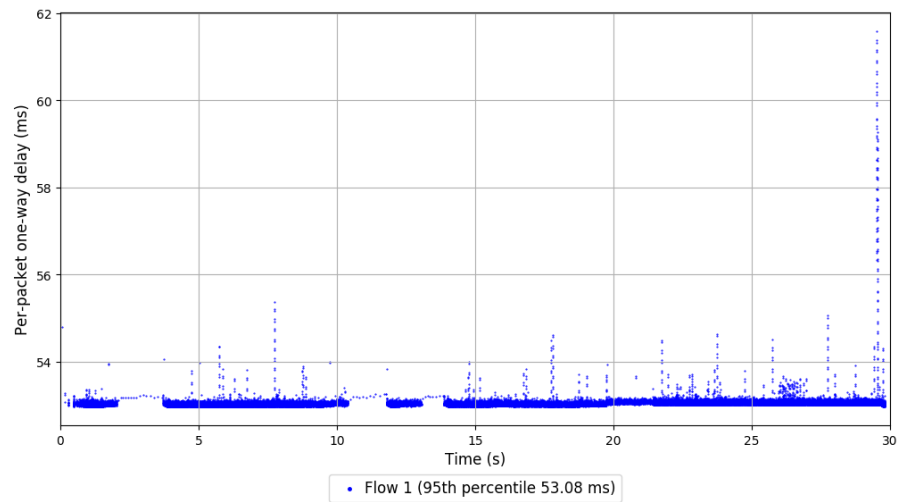
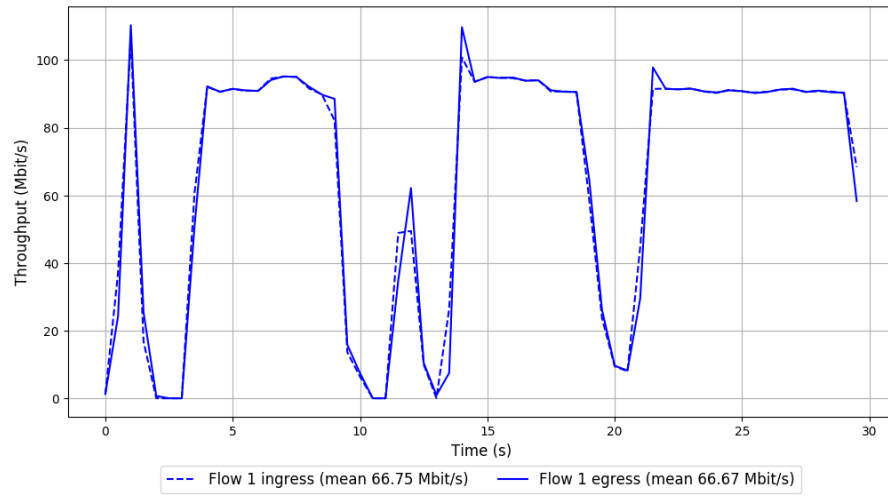


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-01-30 19:51:12
End at: 2018-01-30 19:51:42

# Below is generated by plot.py at 2018-01-30 22:55:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.67 Mbit/s
95th percentile per-packet one-way delay: 53.084 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 66.67 Mbit/s
95th percentile per-packet one-way delay: 53.084 ms
Loss rate: 0.49%
```

Run 10: Report of QUIC Cubic — Data Link

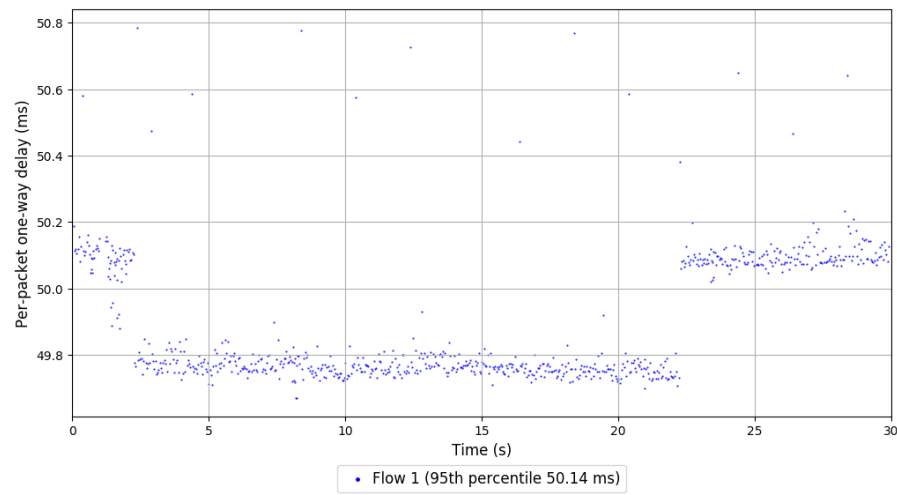
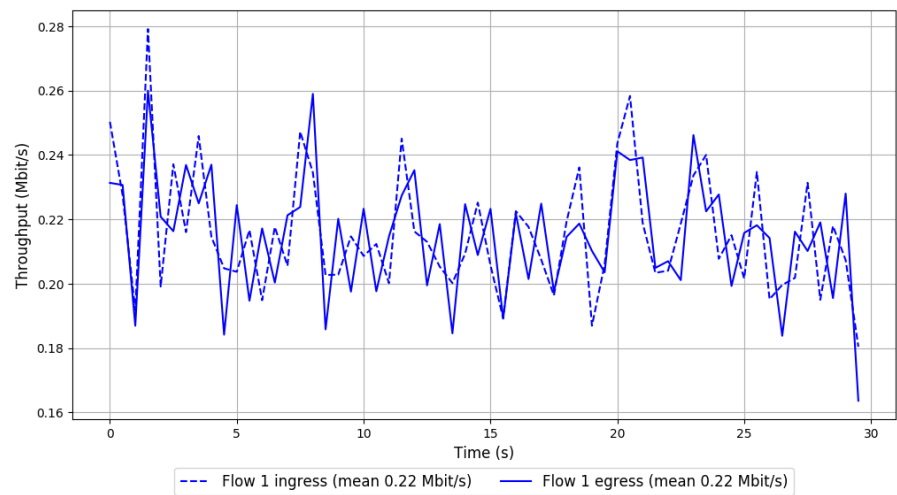


```
Run 1: Statistics of SCReAM

Start at: 2018-01-30 17:53:50
End at: 2018-01-30 17:54:20

# Below is generated by plot.py at 2018-01-30 22:55:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.139 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.139 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link

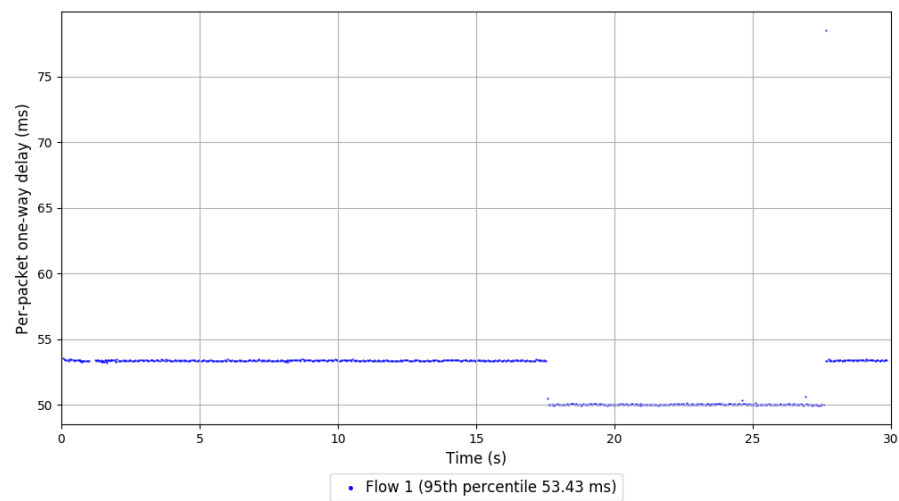
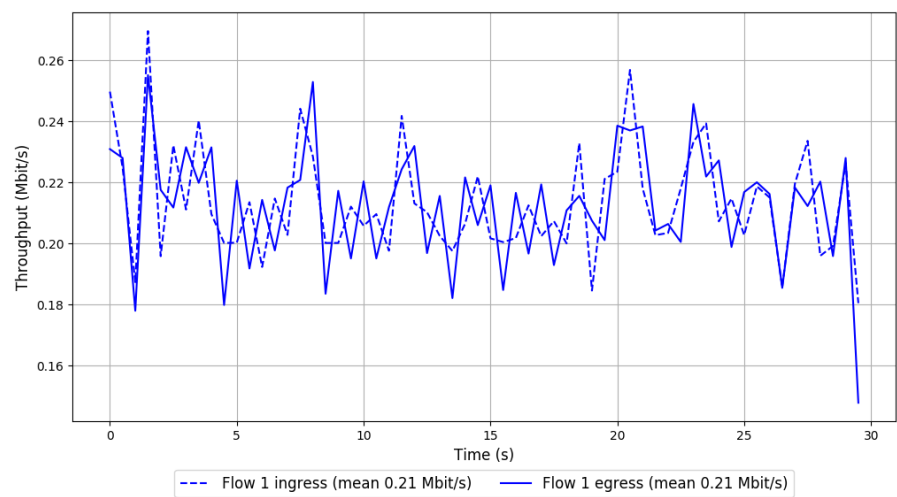


```
Run 2: Statistics of SCReAM

Start at: 2018-01-30 18:08:05
End at: 2018-01-30 18:08:35

# Below is generated by plot.py at 2018-01-30 22:55:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.427 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.427 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-30 18:22:20

End at: 2018-01-30 18:22:50

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.325 ms

Loss rate: 0.38%

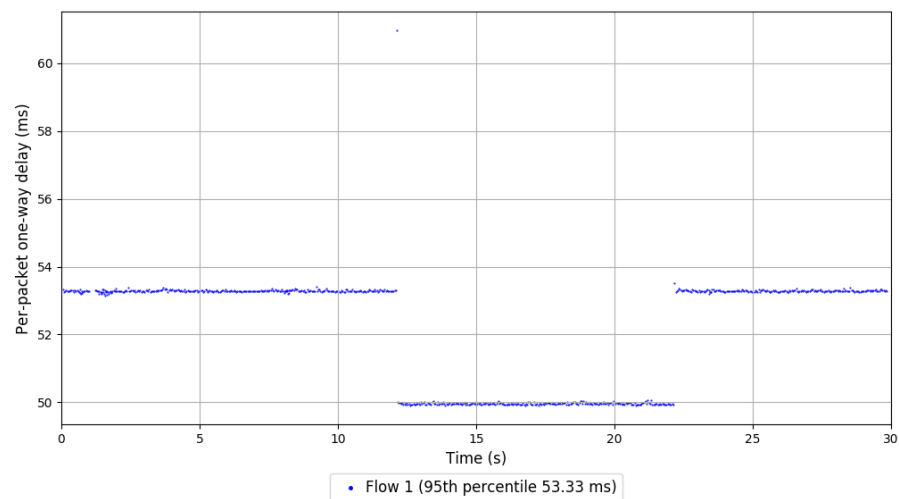
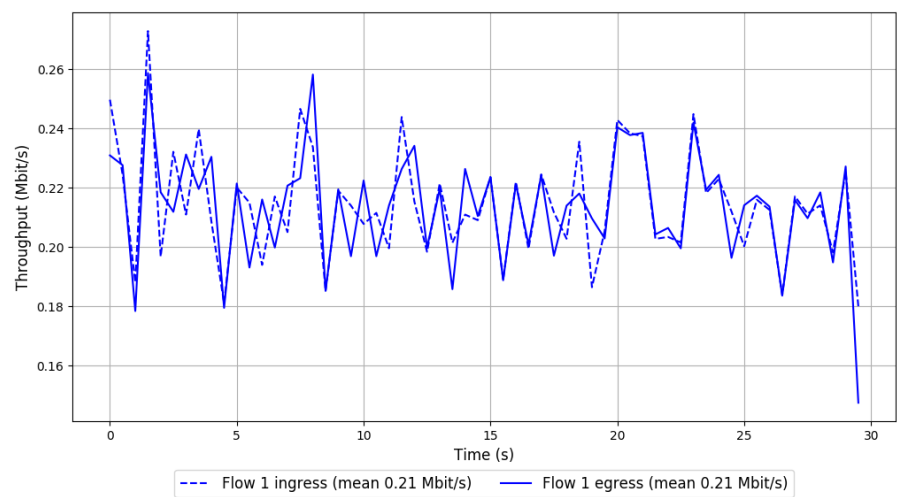
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.325 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-30 18:36:17

End at: 2018-01-30 18:36:47

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.924 ms

Loss rate: 0.39%

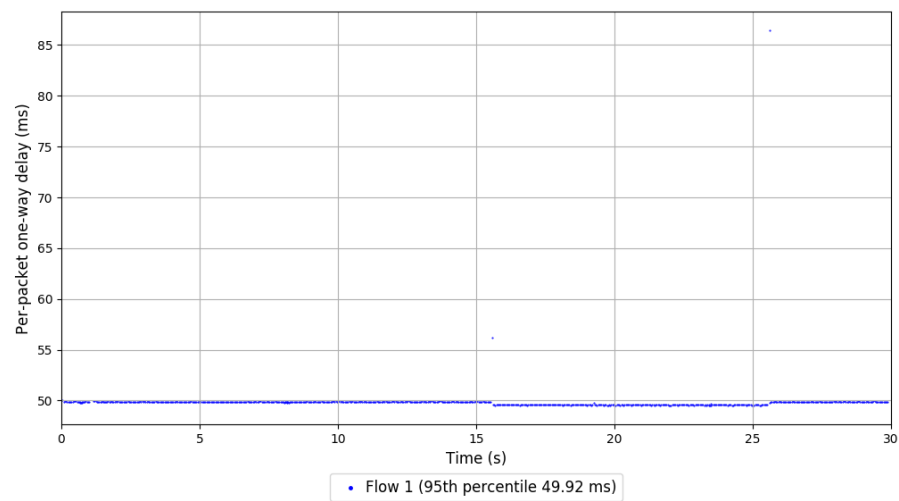
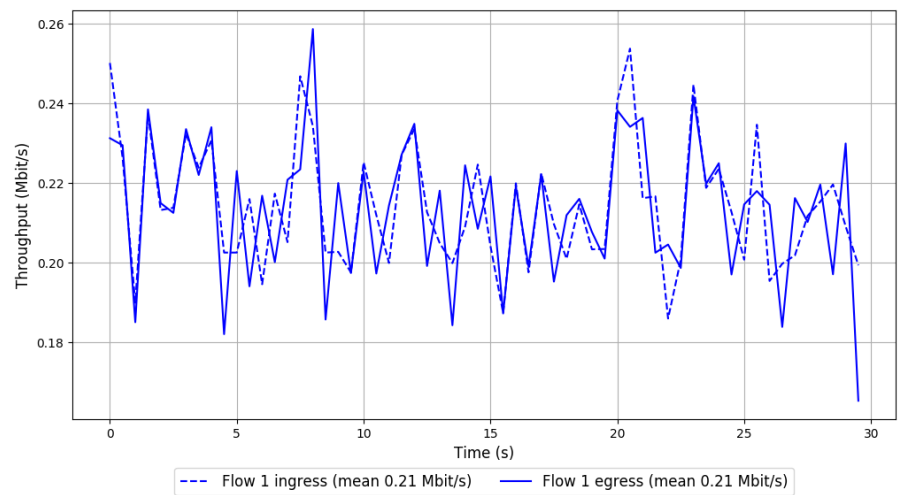
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.924 ms

Loss rate: 0.39%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-30 18:50:21

End at: 2018-01-30 18:50:51

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.745 ms

Loss rate: 0.38%

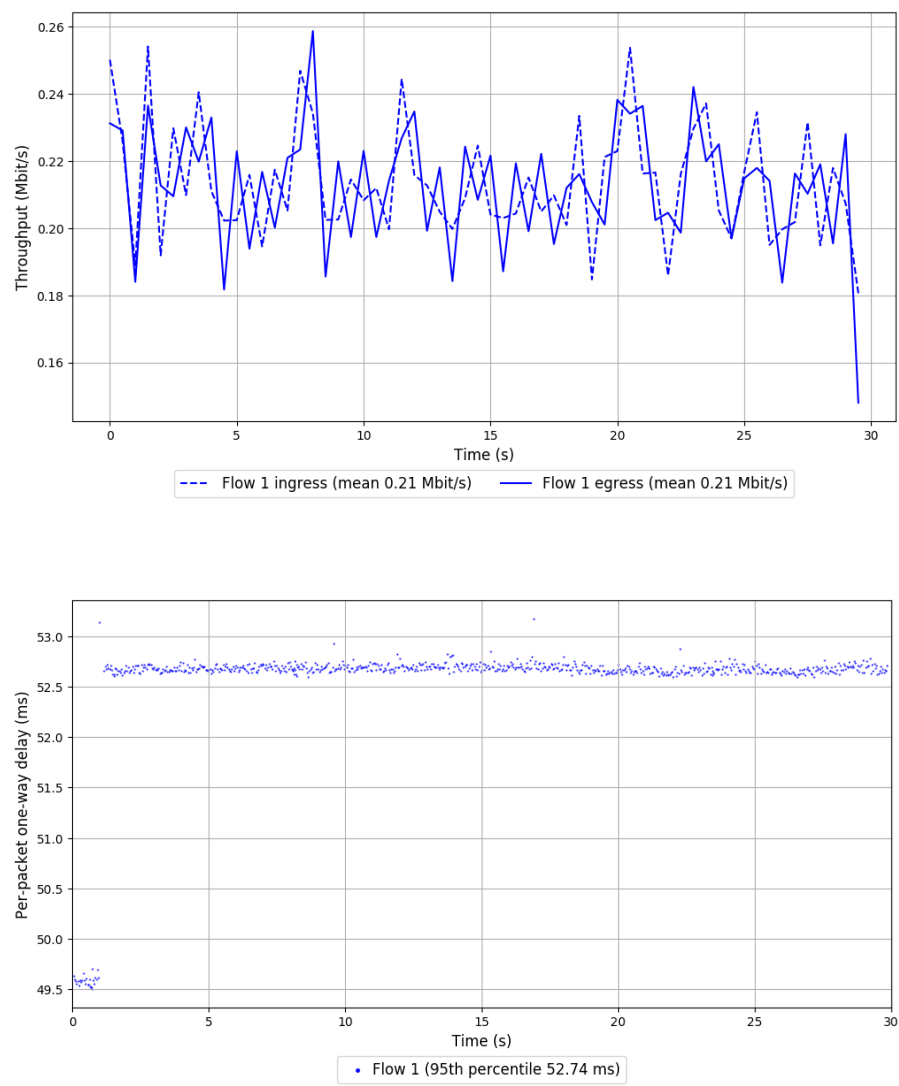
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.745 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link

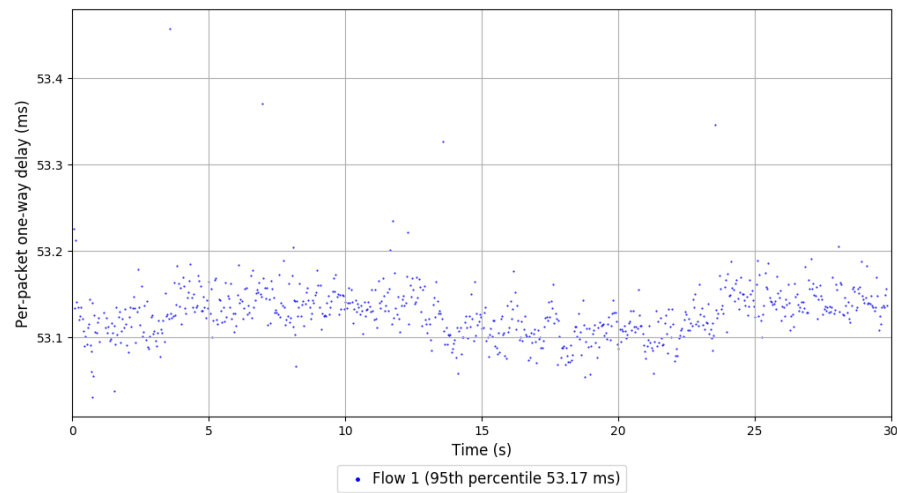
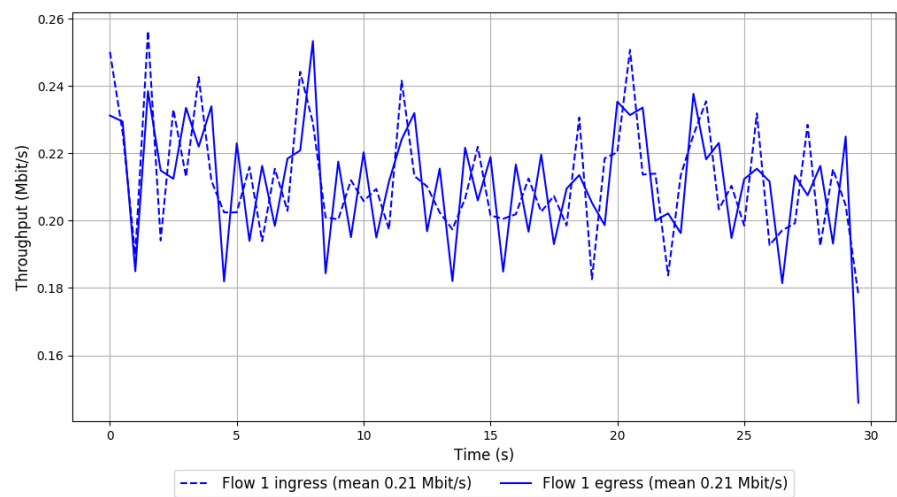


```
Run 6: Statistics of SCReAM

Start at: 2018-01-30 19:04:39
End at: 2018-01-30 19:05:09

# Below is generated by plot.py at 2018-01-30 22:55:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.169 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.169 ms
Loss rate: 0.38%
```

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-01-30 19:18:42

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

Below is generated by plot.py at 2018-01-30 22:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 0.38%

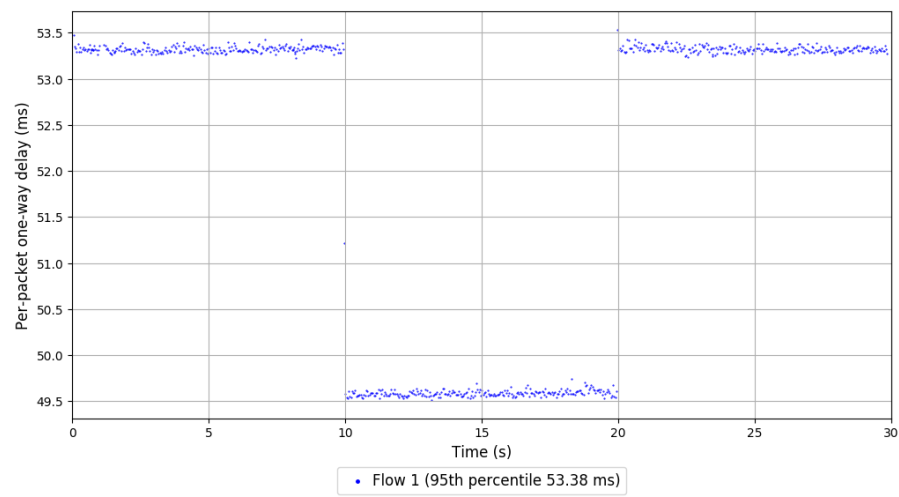
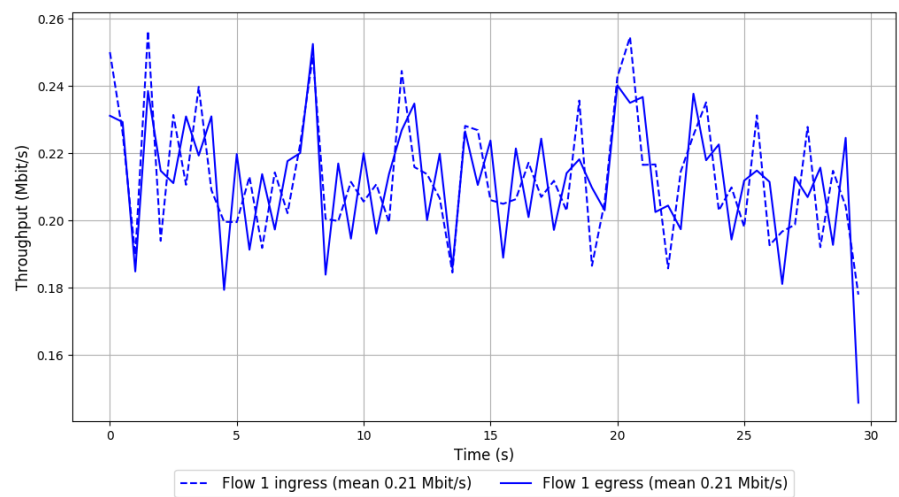
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.378 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-30 19:32:45

End at: 2018-01-30 19:33:15

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.896 ms

Loss rate: 0.26%

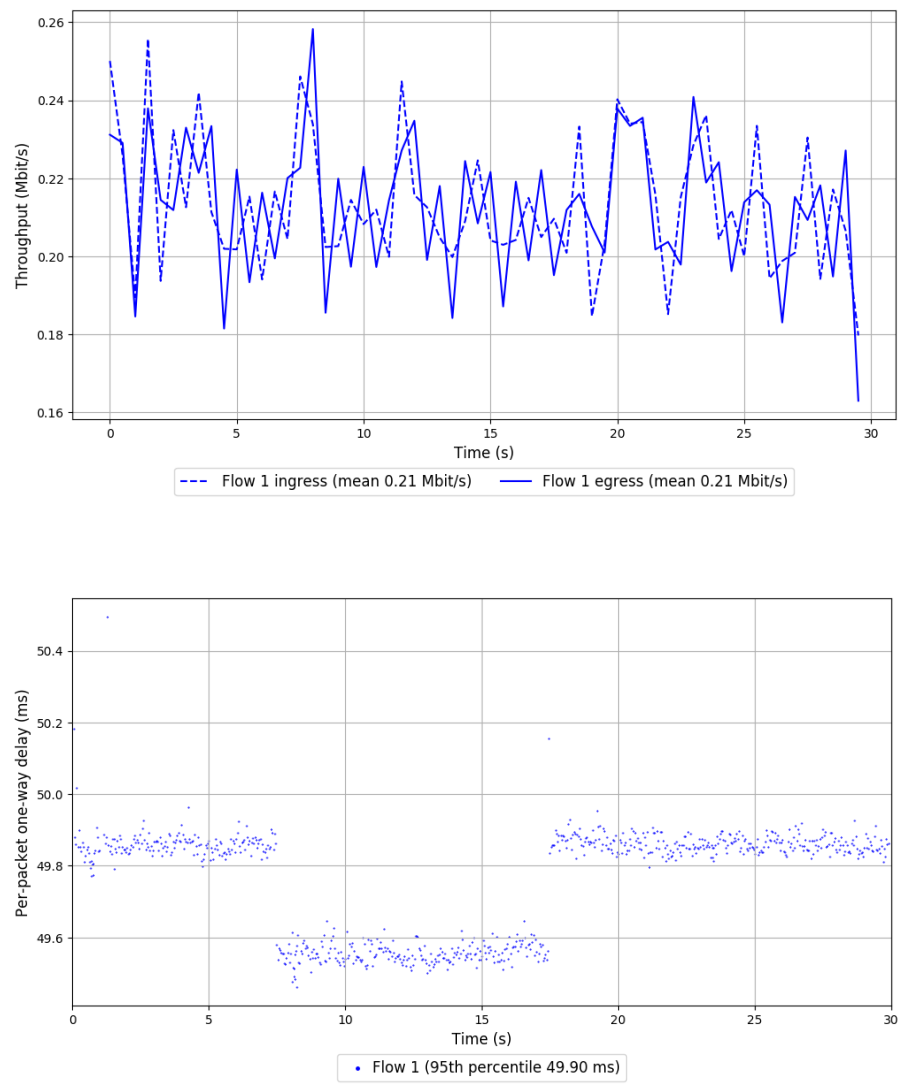
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 49.896 ms

Loss rate: 0.26%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-30 19:46:40

End at: 2018-01-30 19:47:10

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.917 ms

Loss rate: 0.39%

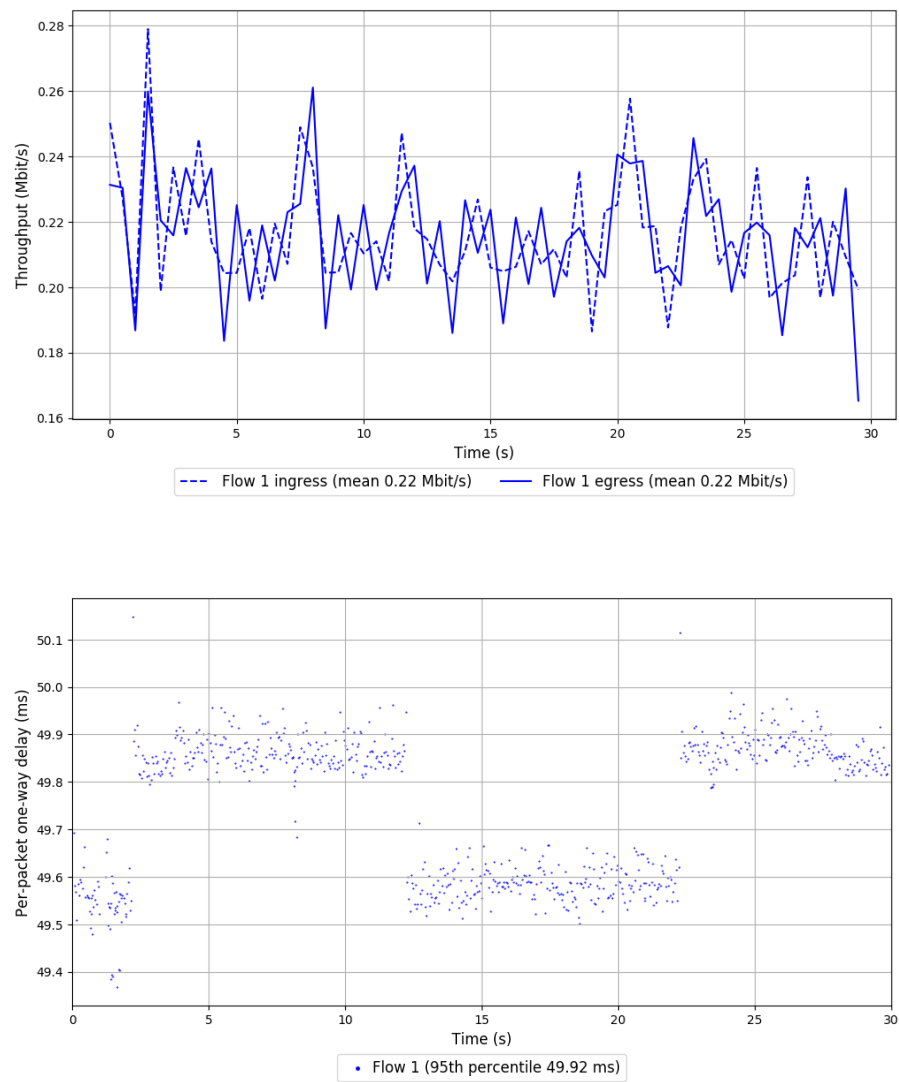
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.917 ms

Loss rate: 0.39%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-30 20:00:52

End at: 2018-01-30 20:01:22

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.321 ms

Loss rate: 0.37%

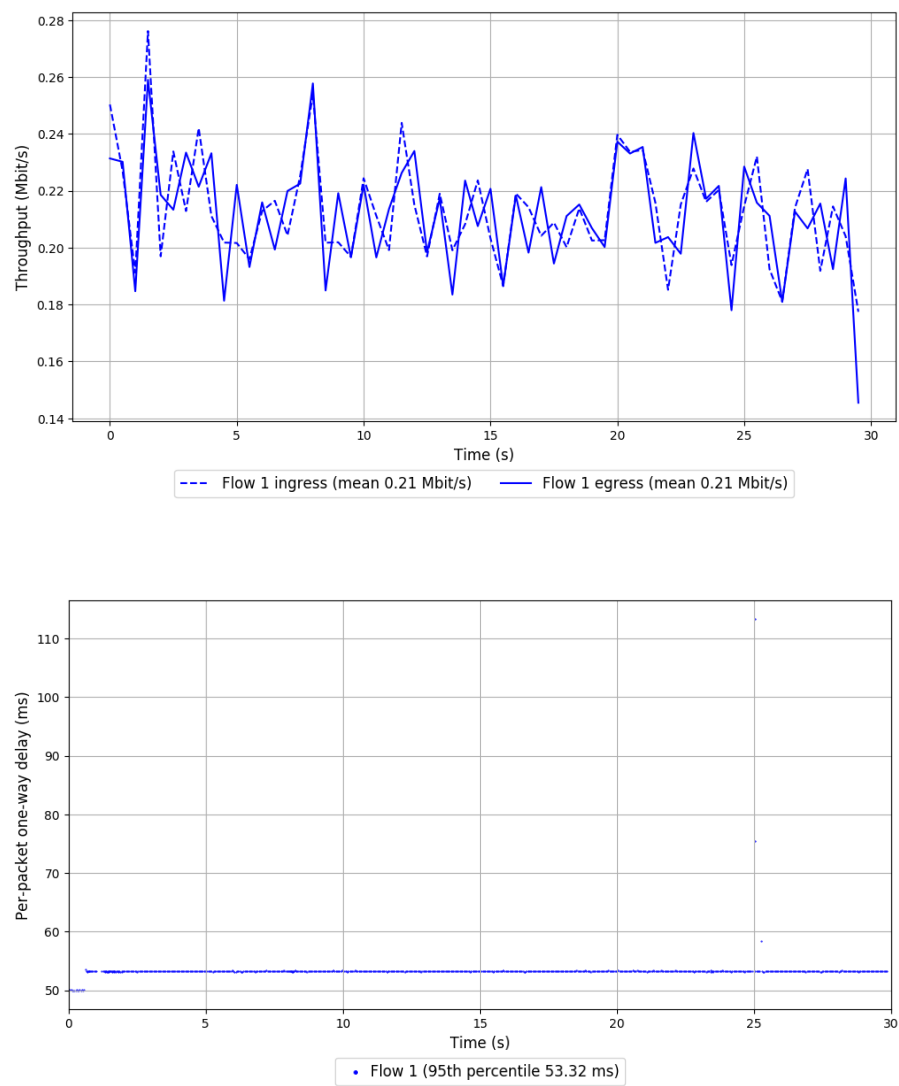
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.321 ms

Loss rate: 0.37%

Run 10: Report of SCRaM — Data Link

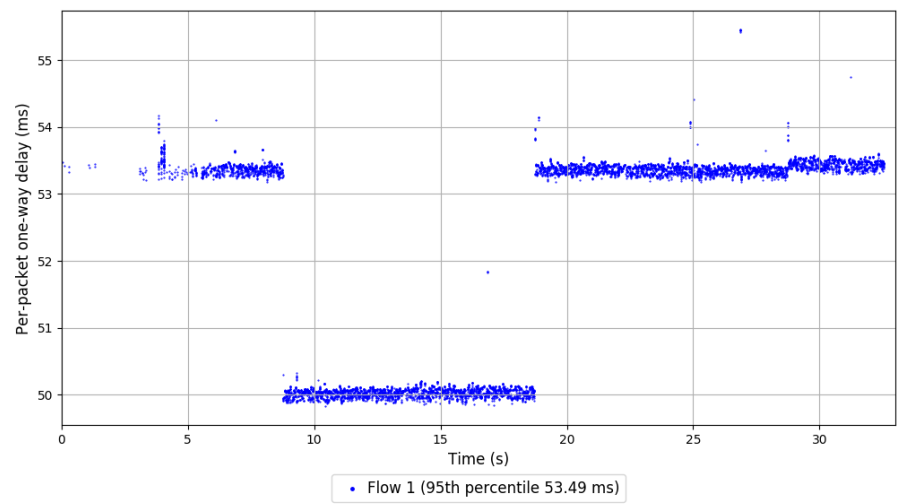
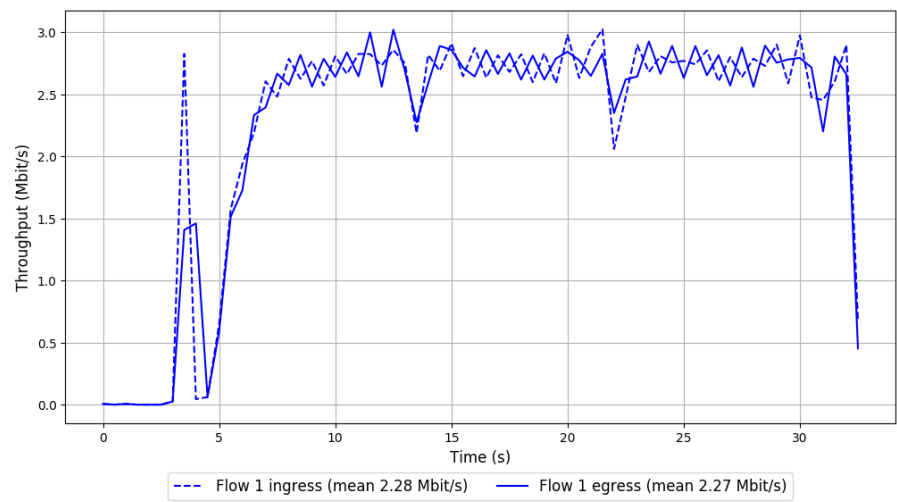


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-30 17:55:06
End at: 2018-01-30 17:55:36

# Below is generated by plot.py at 2018-01-30 22:55:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.495 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 53.495 ms
Loss rate: 0.45%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-01-30 18:09:20

End at: 2018-01-30 18:09:50

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.983 ms

Loss rate: 0.35%

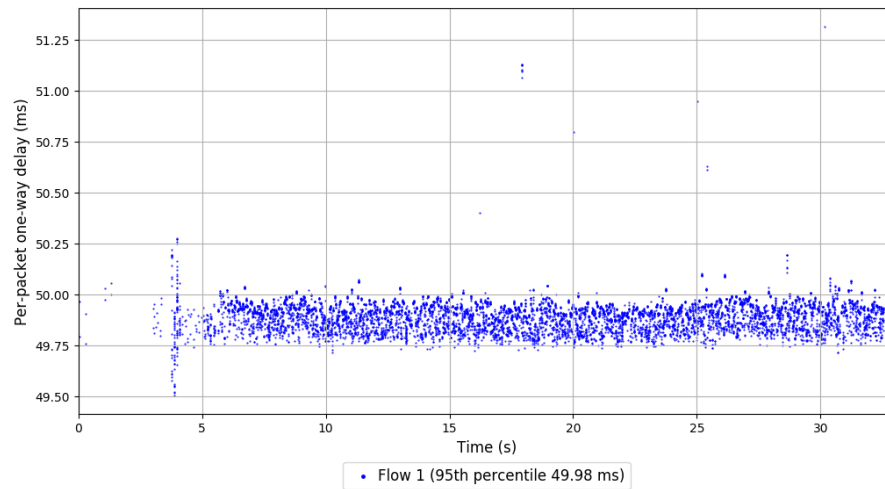
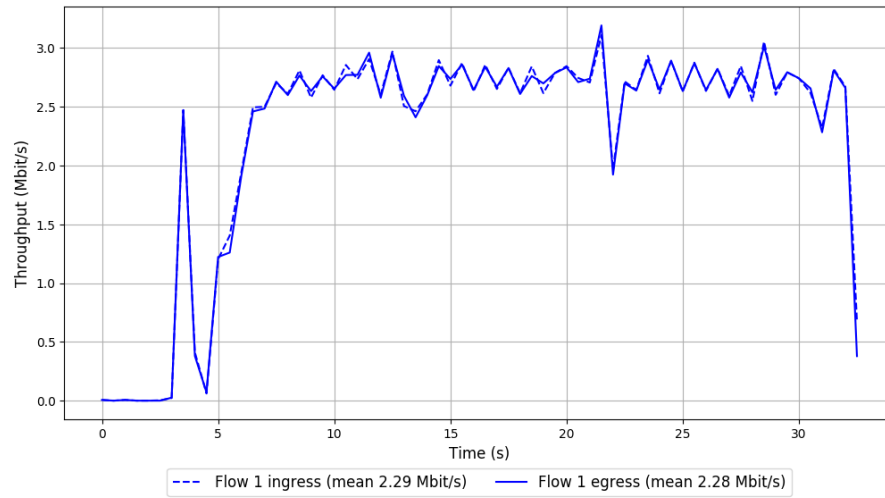
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.983 ms

Loss rate: 0.35%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-30 18:23:36

End at: 2018-01-30 18:24:06

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 52.990 ms

Loss rate: 0.31%

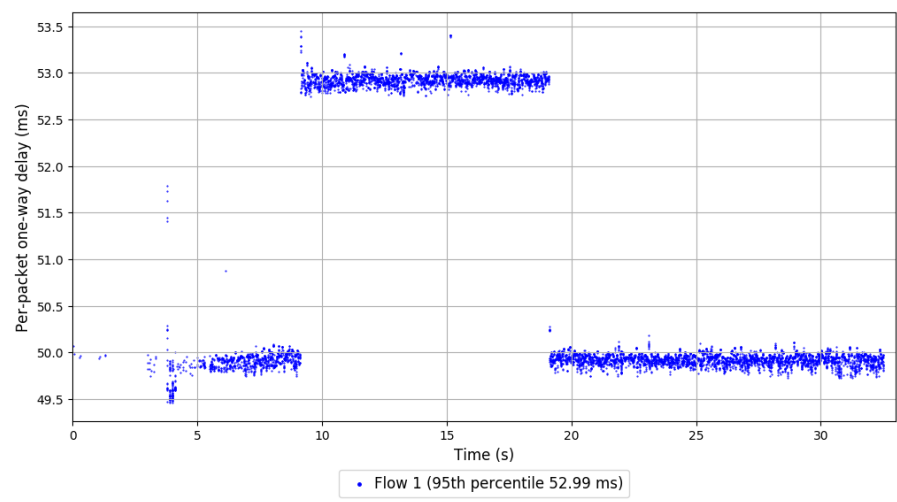
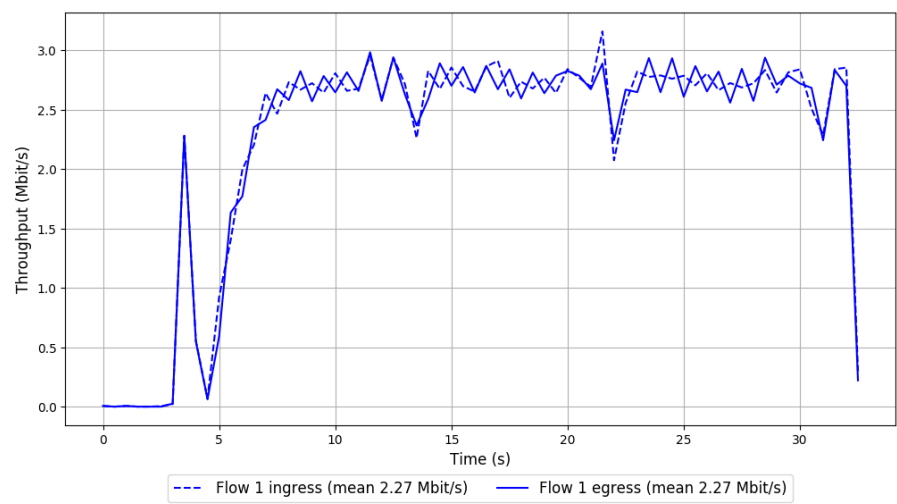
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 52.990 ms

Loss rate: 0.31%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-30 18:37:33

End at: 2018-01-30 18:38:03

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 53.350 ms

Loss rate: 0.38%

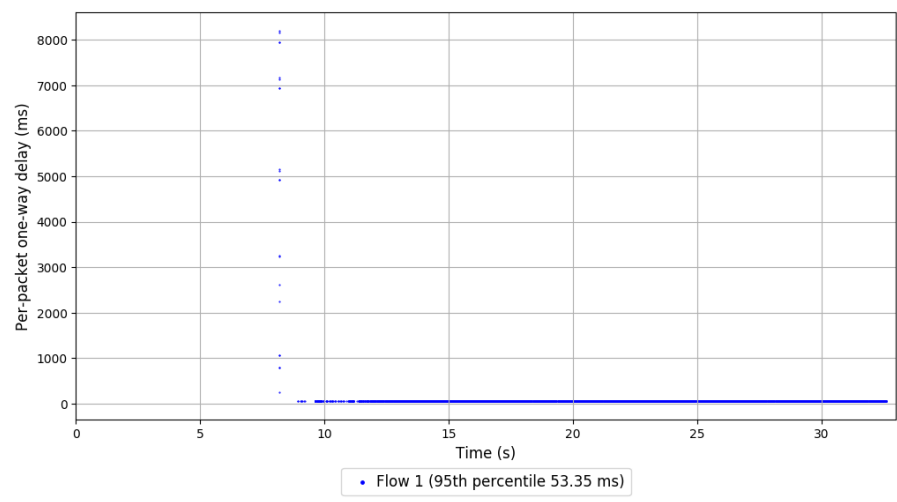
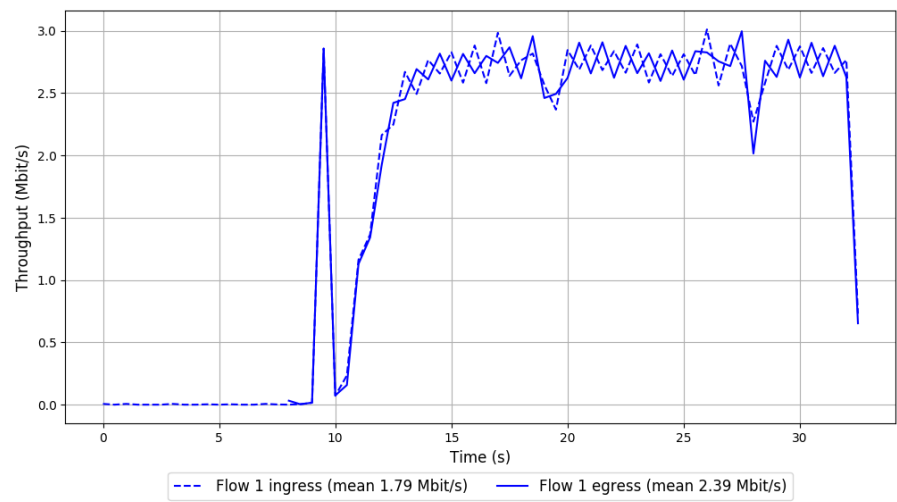
-- Flow 1:

Average throughput: 2.39 Mbit/s

95th percentile per-packet one-way delay: 53.350 ms

Loss rate: 0.38%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-30 18:51:37

End at: 2018-01-30 18:52:07

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.208 ms

Loss rate: 0.30%

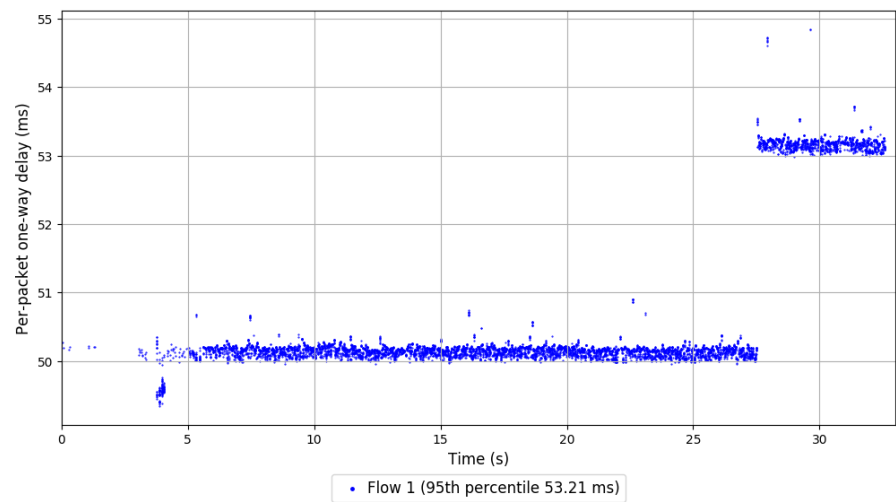
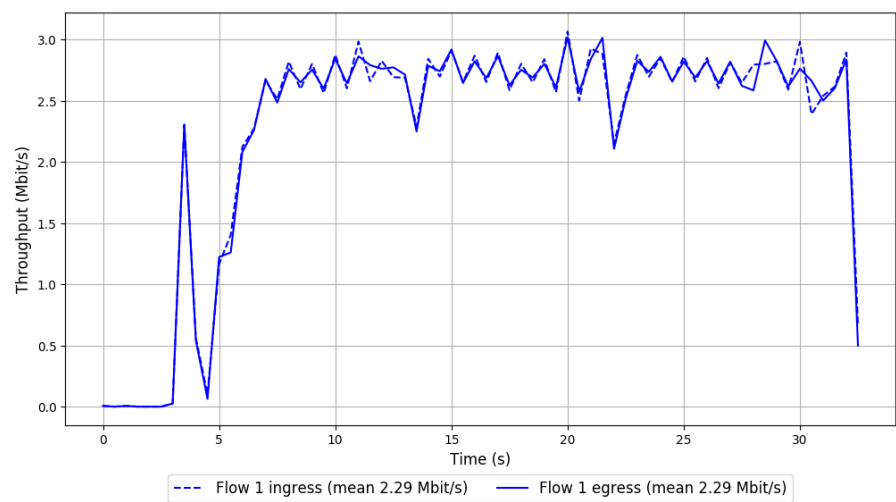
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 53.208 ms

Loss rate: 0.30%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-30 19:05:52

End at: 2018-01-30 19:06:22

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 49.866 ms

Loss rate: 0.30%

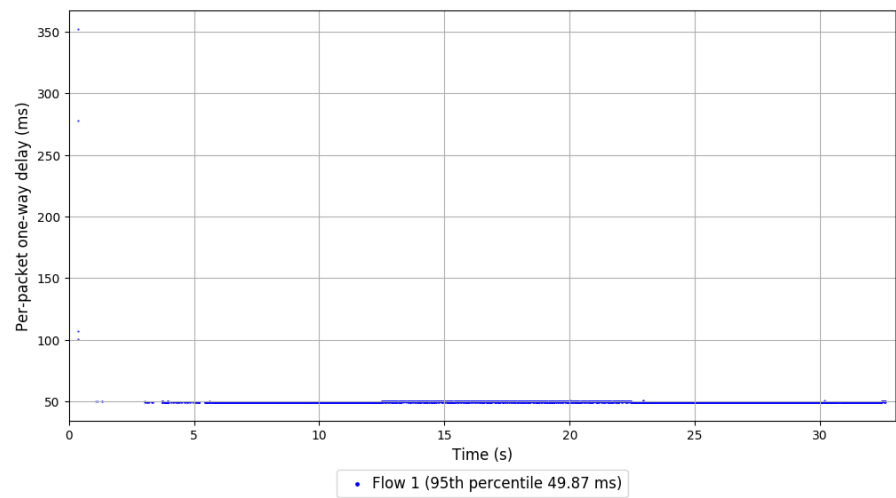
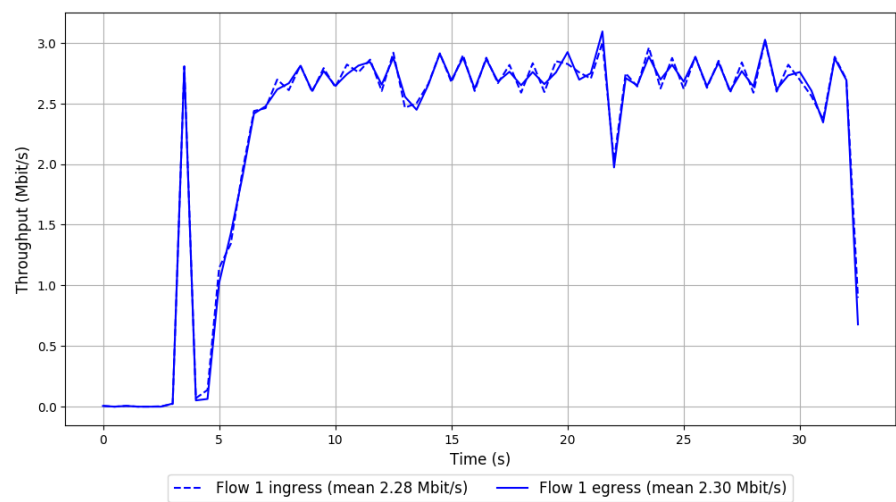
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 49.866 ms

Loss rate: 0.30%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-30 19:19:58

End at: 2018-01-30 19:20:28

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.623 ms

Loss rate: 0.30%

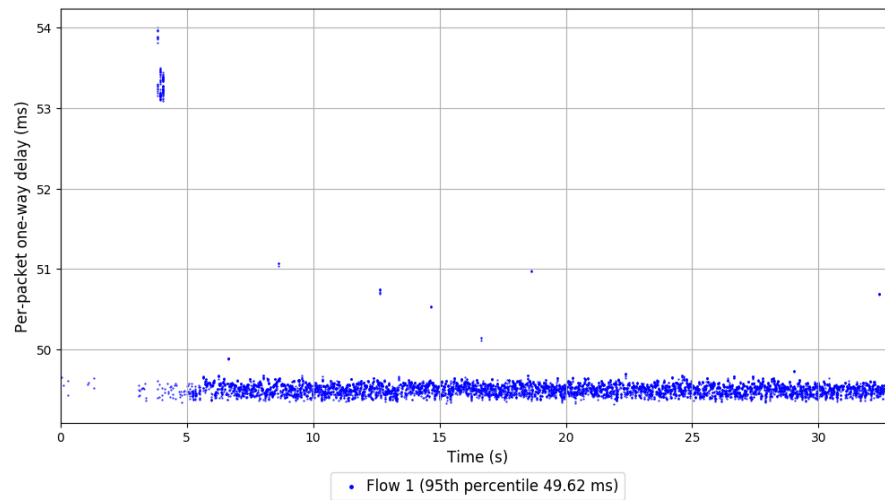
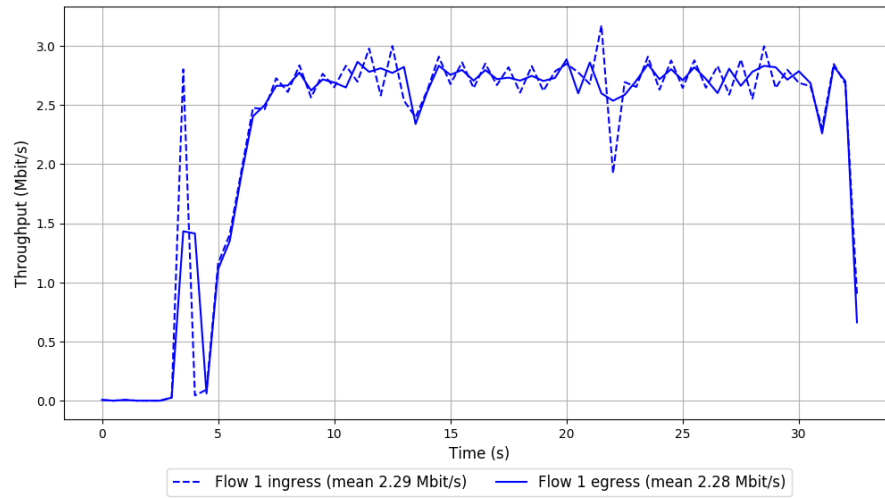
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.623 ms

Loss rate: 0.30%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-30 19:34:00

End at: 2018-01-30 19:34:30

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.379 ms

Loss rate: 0.45%

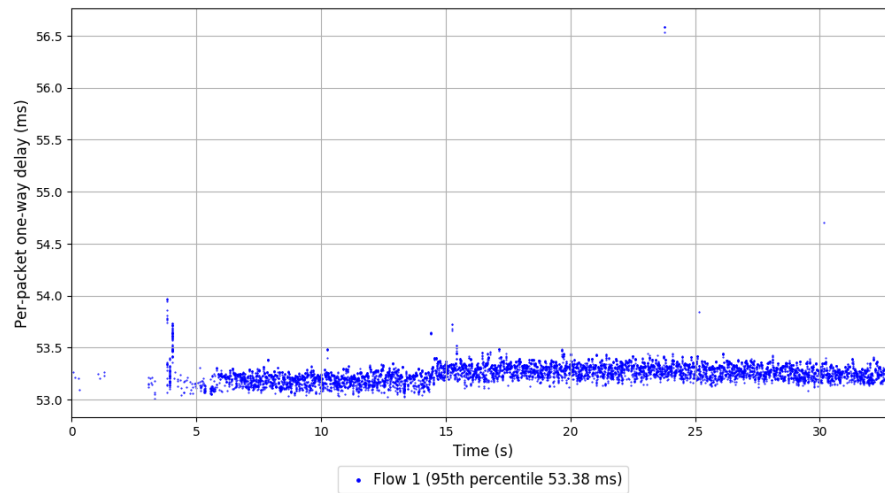
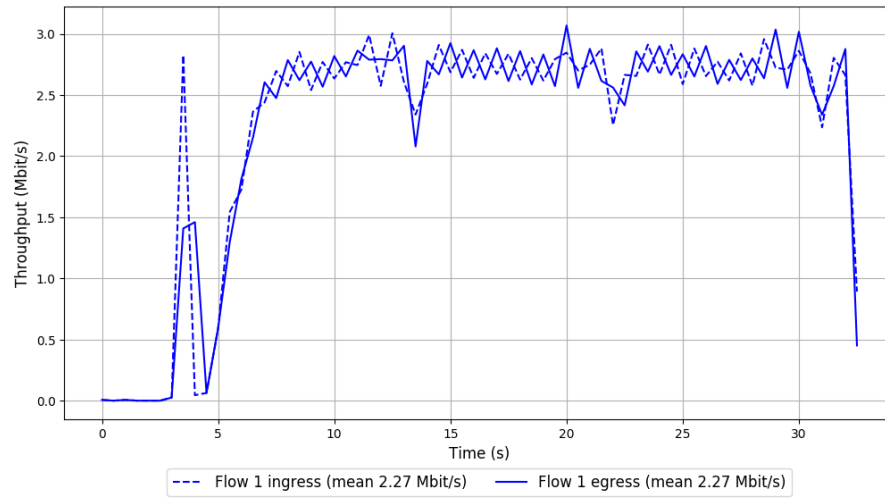
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.379 ms

Loss rate: 0.45%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-30 19:47:56

End at: 2018-01-30 19:48:26

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.280 ms

Loss rate: 0.45%

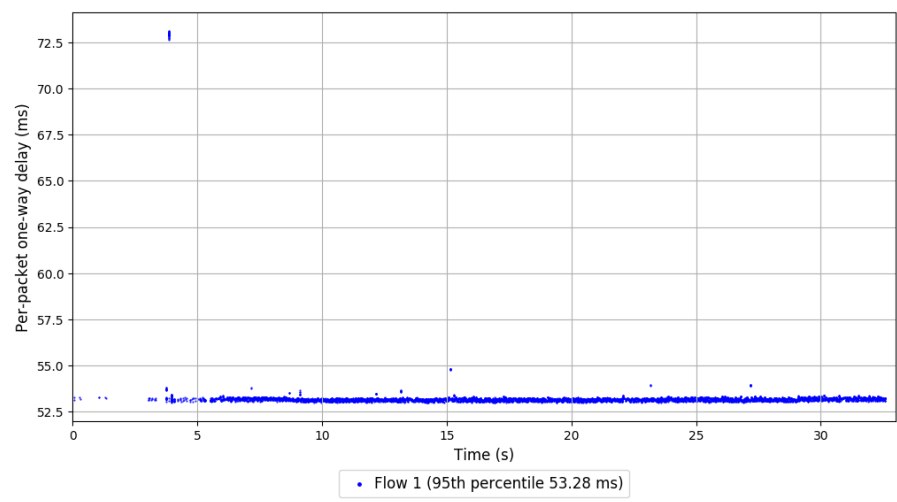
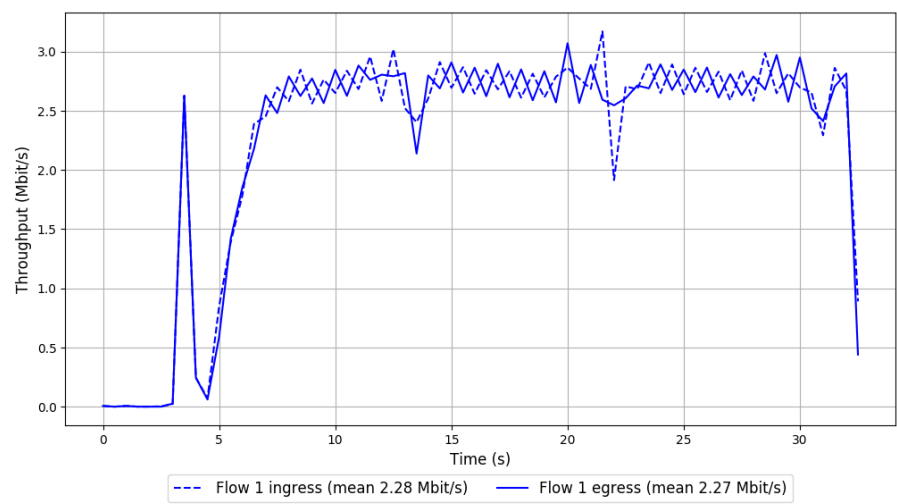
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 53.280 ms

Loss rate: 0.45%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-30 20:02:07

End at: 2018-01-30 20:02:37

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.223 ms

Loss rate: 0.45%

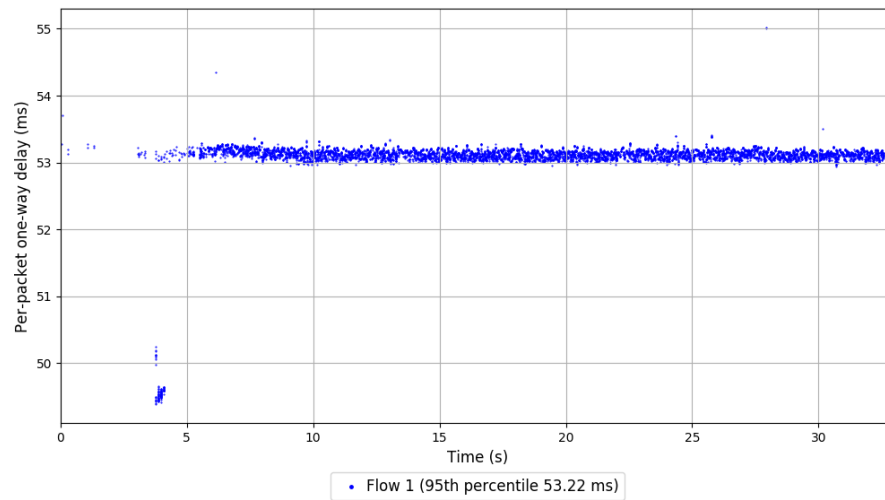
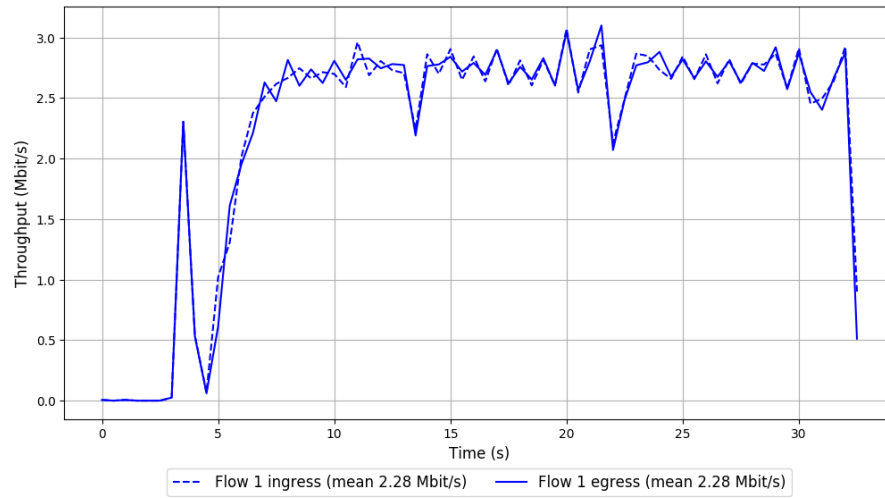
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 53.223 ms

Loss rate: 0.45%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-01-30 17:51:14

End at: 2018-01-30 17:51:44

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.311 ms

Loss rate: 1.64%

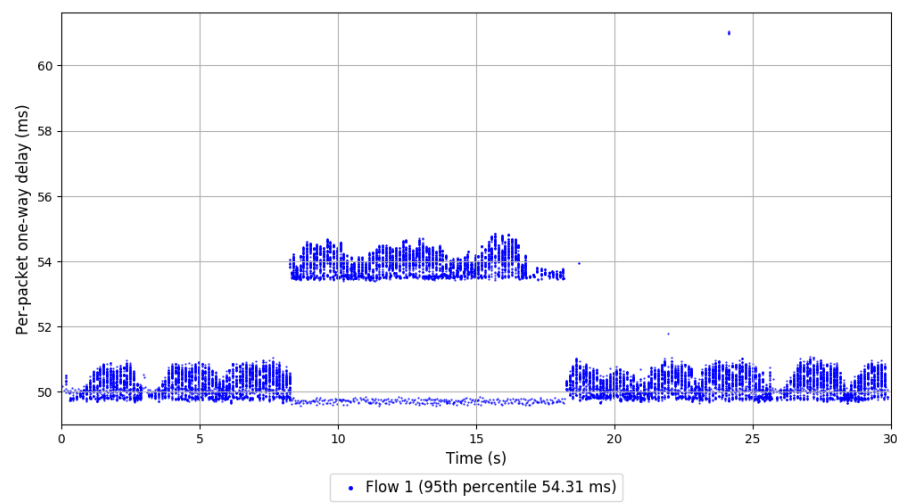
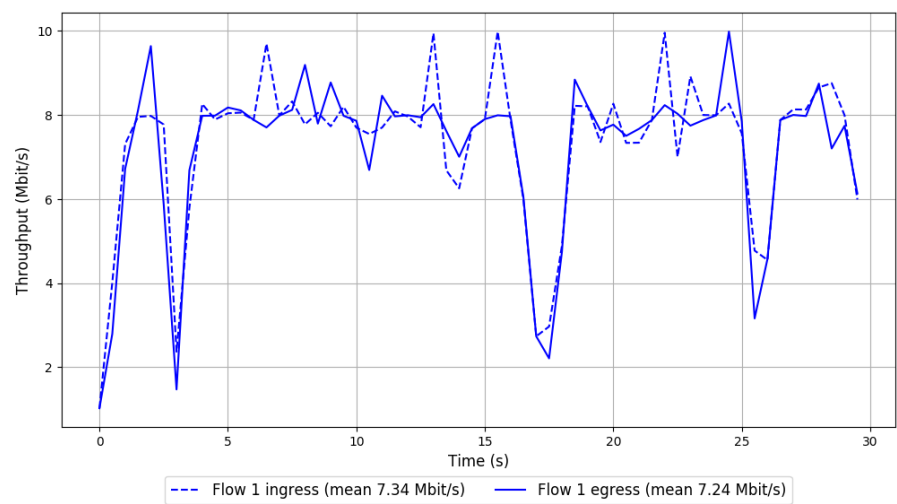
-- Flow 1:

Average throughput: 7.24 Mbit/s

95th percentile per-packet one-way delay: 54.311 ms

Loss rate: 1.64%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-30 18:05:12

End at: 2018-01-30 18:05:42

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.258 ms

Loss rate: 0.32%

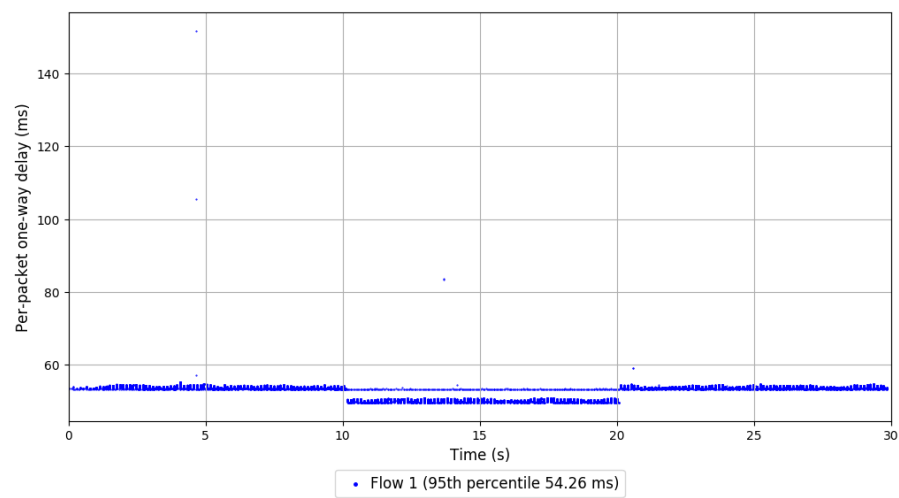
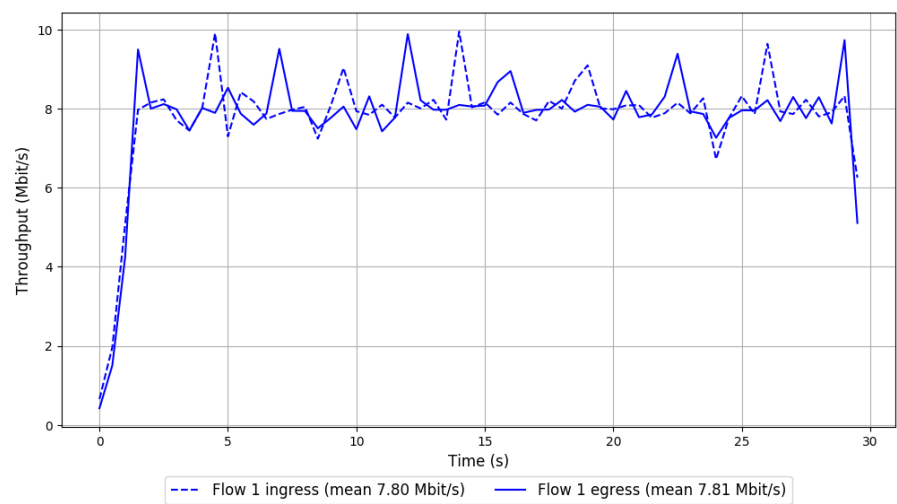
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.258 ms

Loss rate: 0.32%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-30 18:19:26

End at: 2018-01-30 18:19:56

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.189 ms

Loss rate: 1.97%

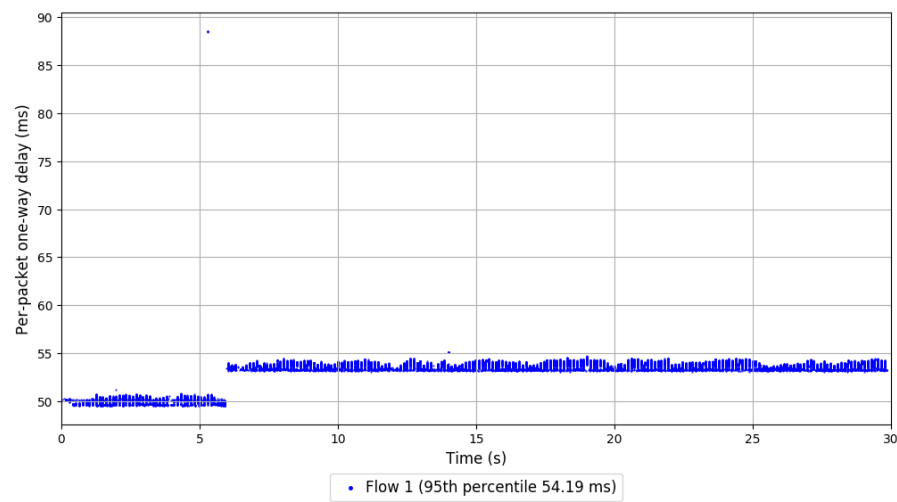
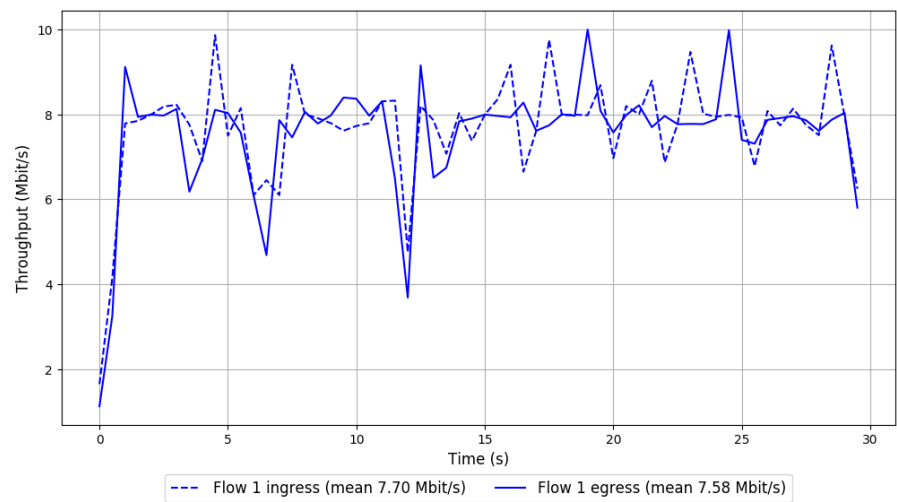
-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 54.189 ms

Loss rate: 1.97%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-30 18:33:37

End at: 2018-01-30 18:34:07

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 53.965 ms

Loss rate: 1.28%

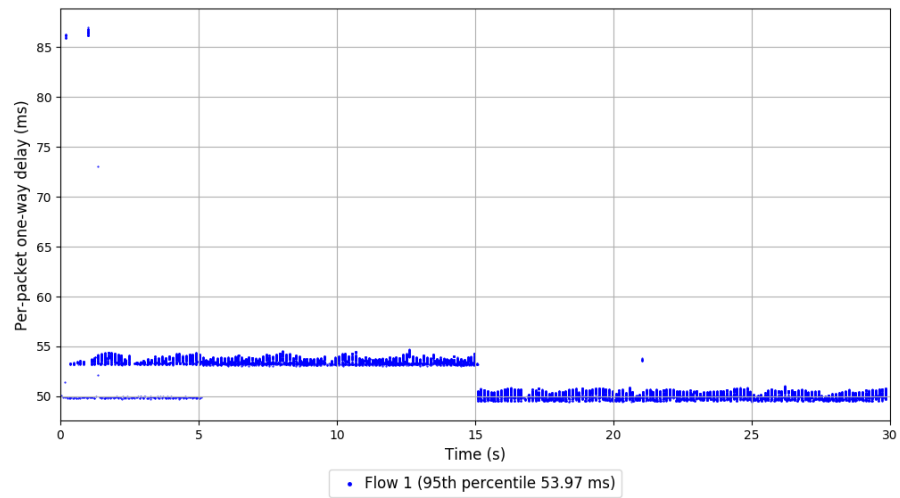
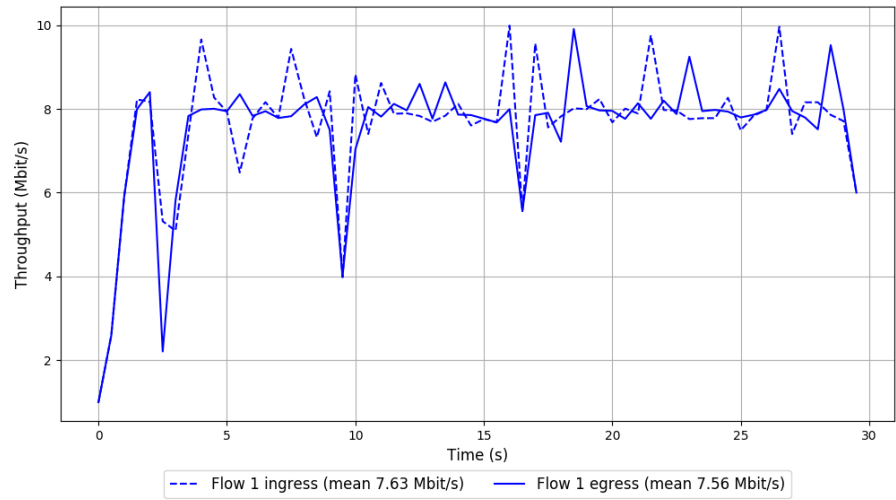
-- Flow 1:

Average throughput: 7.56 Mbit/s

95th percentile per-packet one-way delay: 53.965 ms

Loss rate: 1.28%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-30 18:47:44

End at: 2018-01-30 18:48:14

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.099 ms

Loss rate: 1.70%

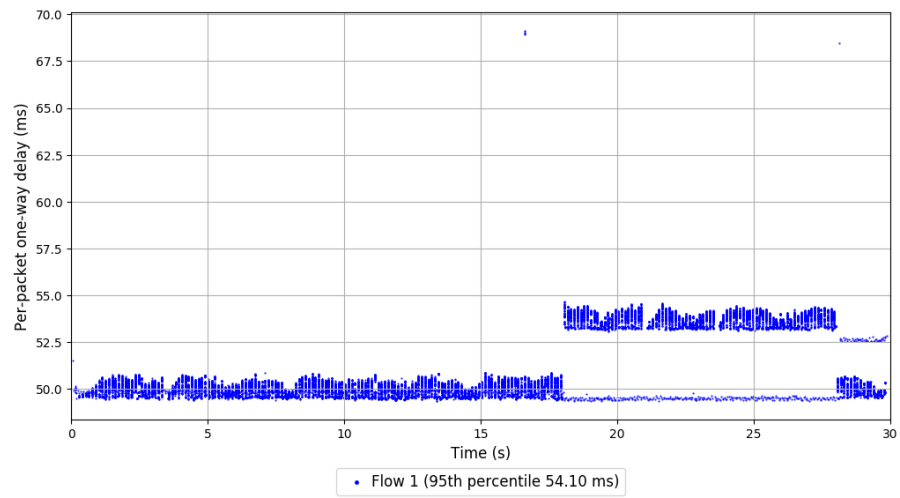
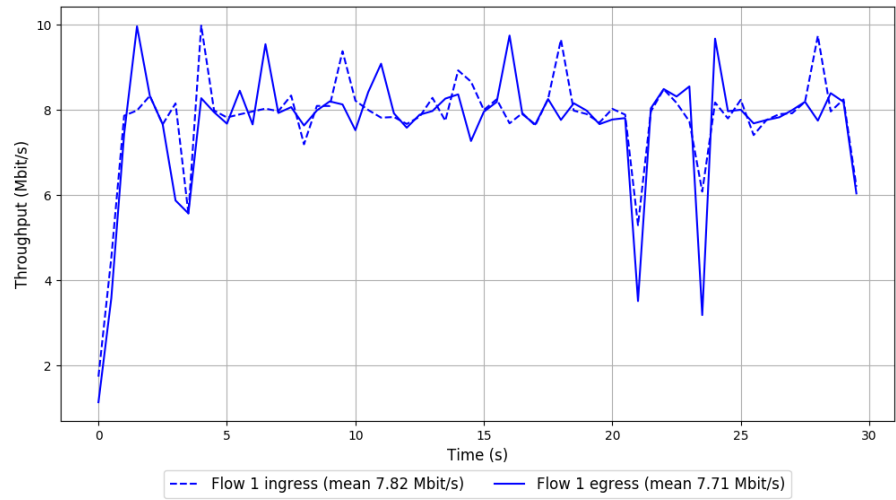
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.099 ms

Loss rate: 1.70%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-30 19:01:46

End at: 2018-01-30 19:02:16

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 54.214 ms

Loss rate: 1.43%

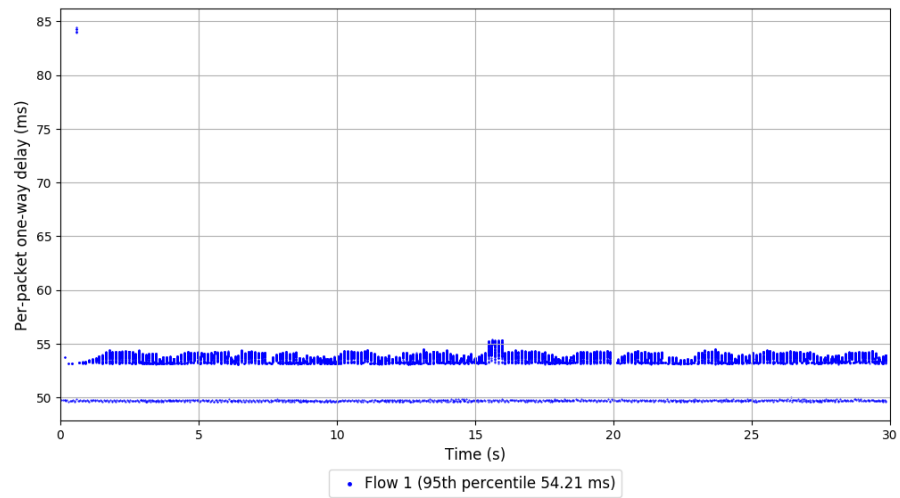
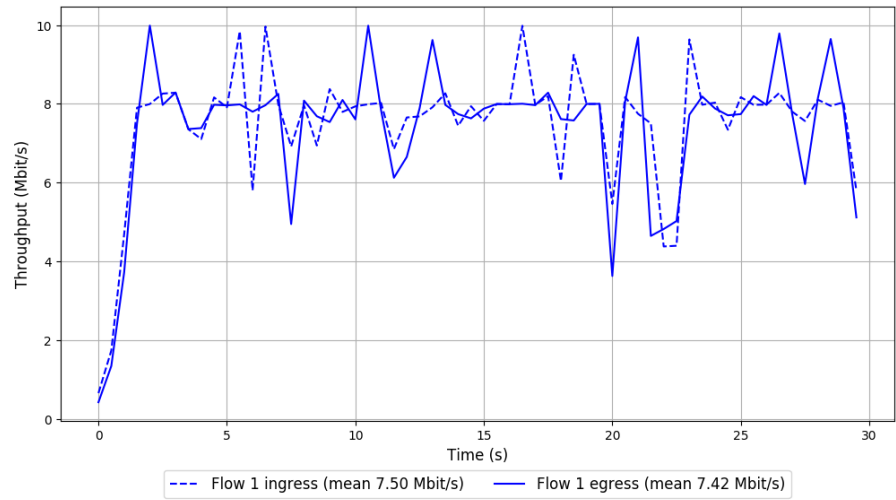
-- Flow 1:

Average throughput: 7.42 Mbit/s

95th percentile per-packet one-way delay: 54.214 ms

Loss rate: 1.43%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-30 19:16:02

End at: 2018-01-30 19:16:32

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.008 ms

Loss rate: 1.57%

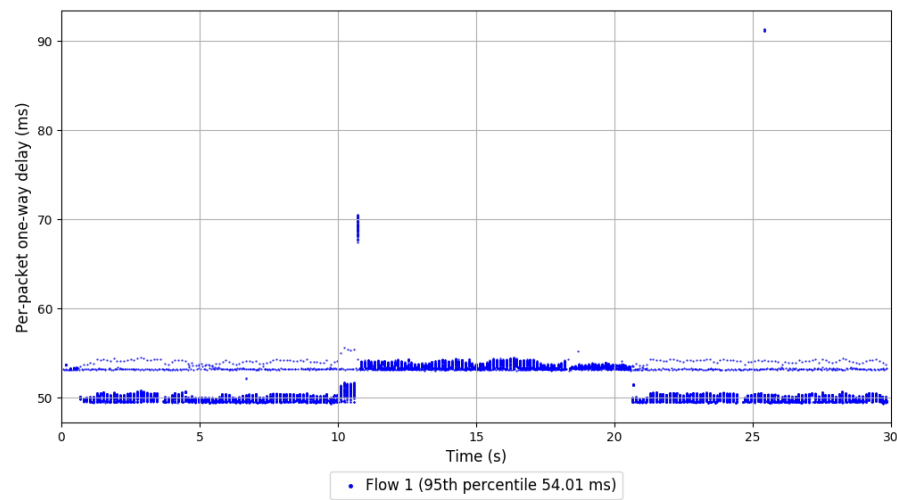
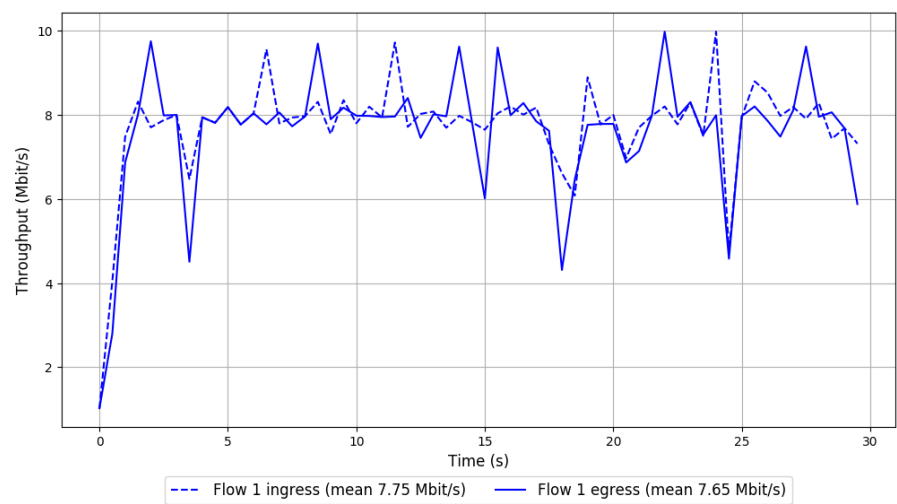
-- Flow 1:

Average throughput: 7.65 Mbit/s

95th percentile per-packet one-way delay: 54.008 ms

Loss rate: 1.57%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-30 19:29:55

End at: 2018-01-30 19:30:25

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 50.495 ms

Loss rate: 1.09%

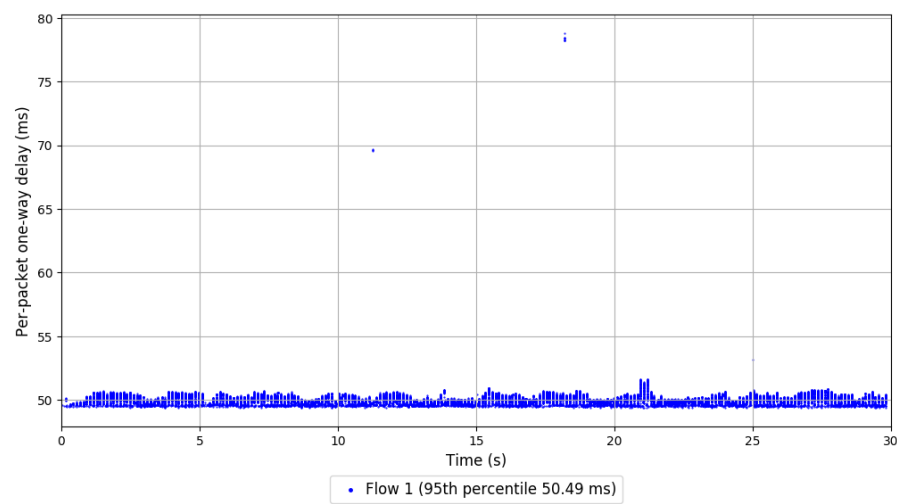
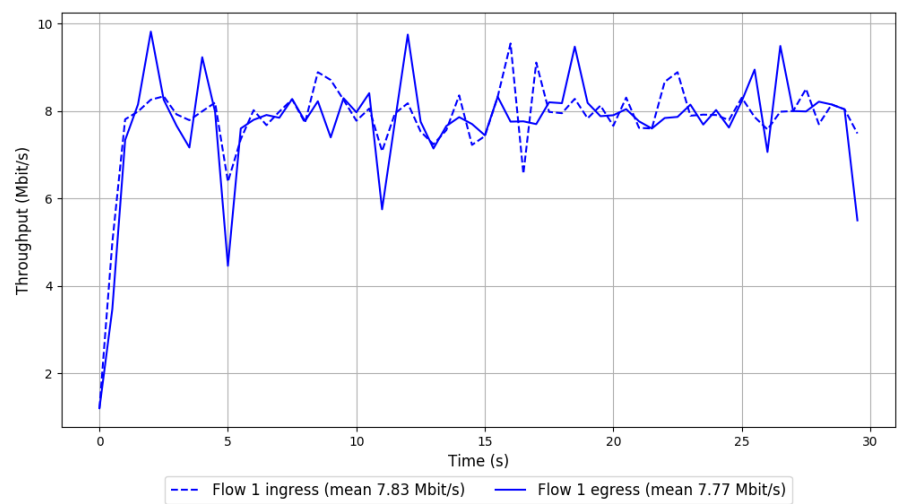
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 50.495 ms

Loss rate: 1.09%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-30 19:43:47

End at: 2018-01-30 19:44:17

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 54.128 ms

Loss rate: 2.36%

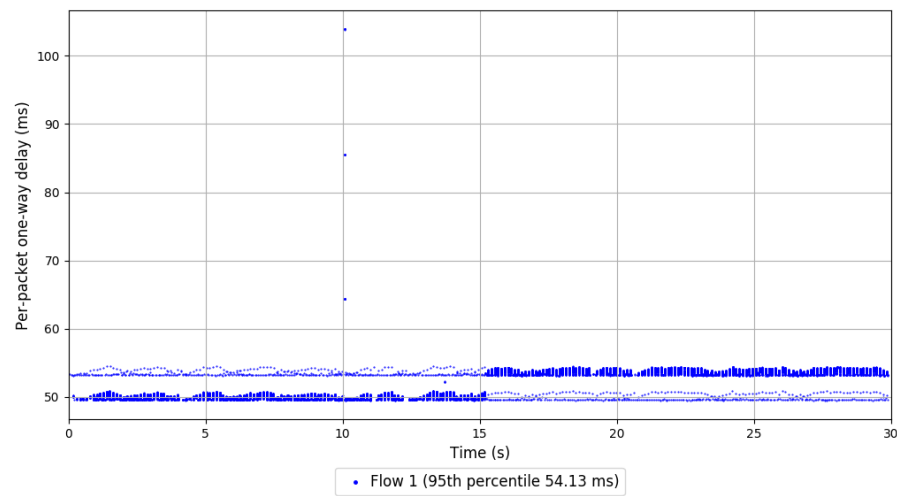
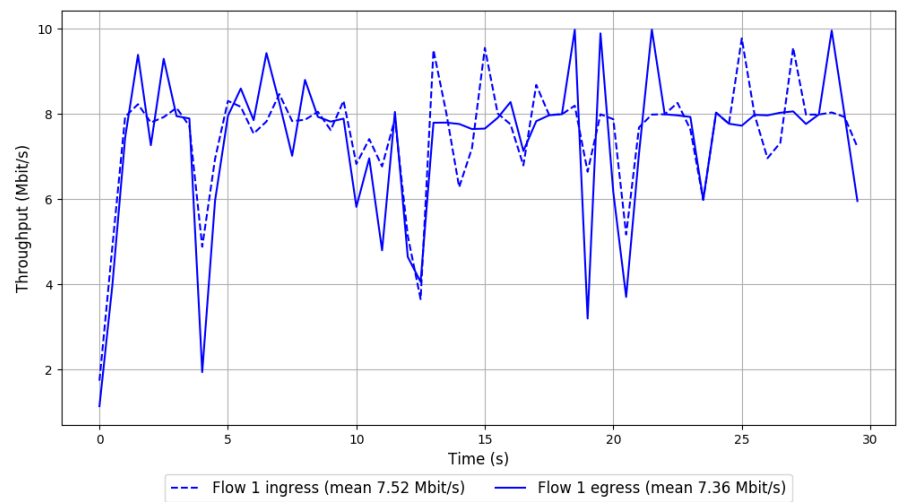
-- Flow 1:

Average throughput: 7.36 Mbit/s

95th percentile per-packet one-way delay: 54.128 ms

Loss rate: 2.36%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-30 19:58:01

End at: 2018-01-30 19:58:31

Below is generated by plot.py at 2018-01-30 22:55:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.056 ms

Loss rate: 1.22%

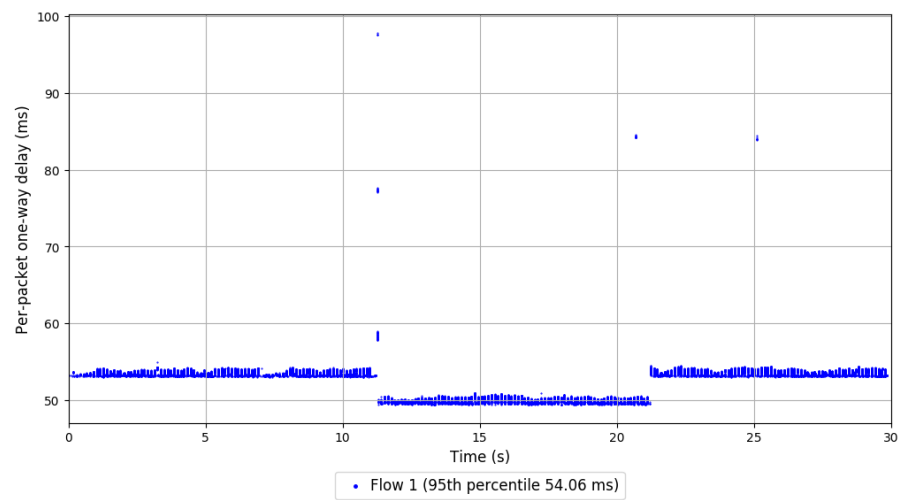
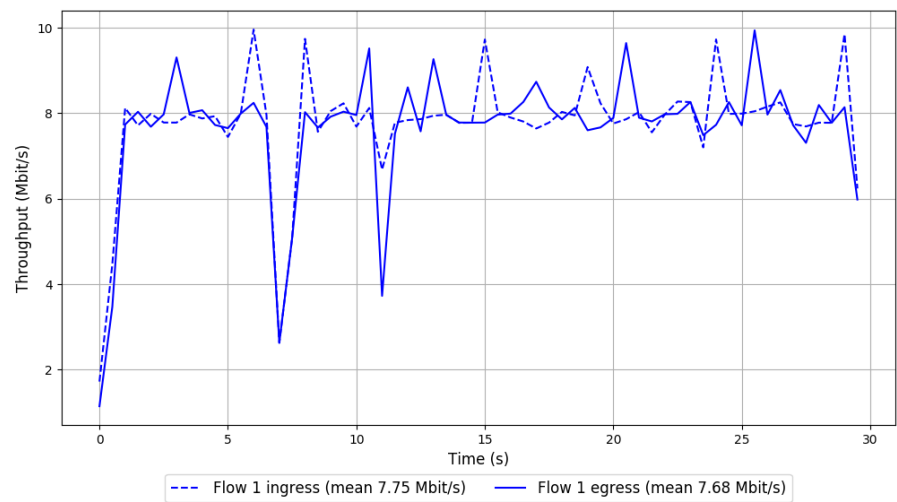
-- Flow 1:

Average throughput: 7.68 Mbit/s

95th percentile per-packet one-way delay: 54.056 ms

Loss rate: 1.22%

Run 10: Report of Sprout — Data Link

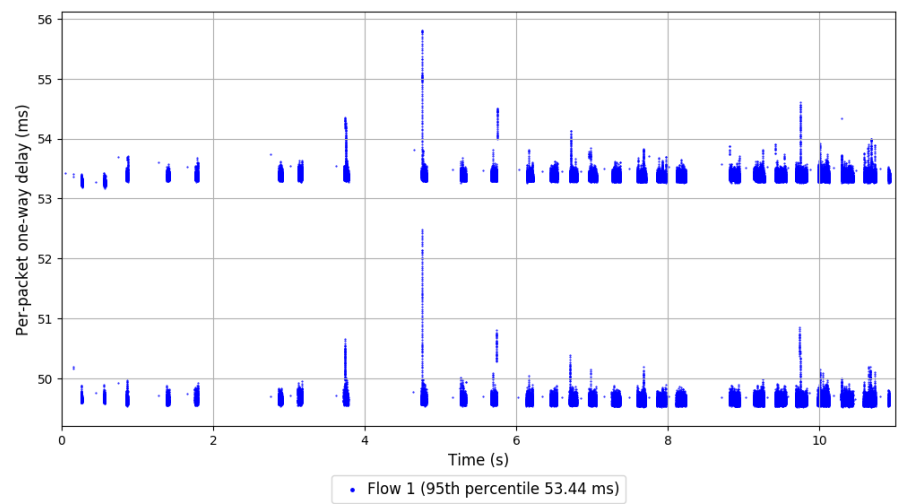
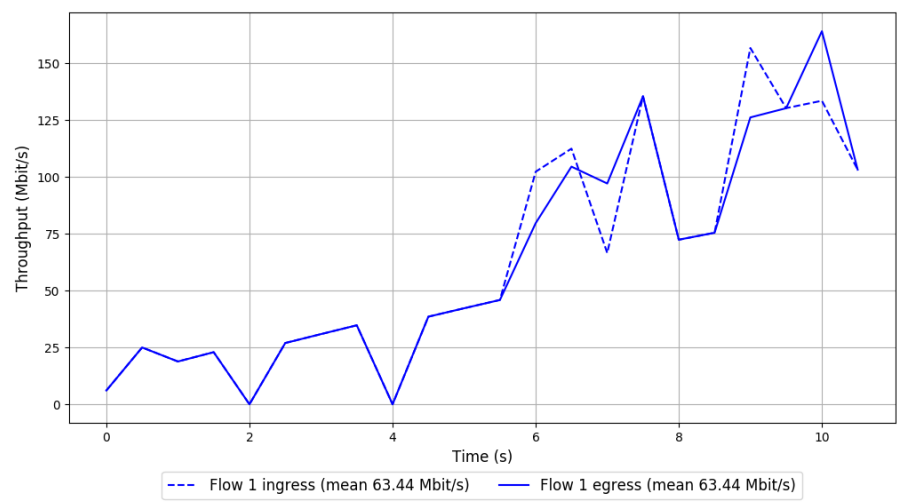


Run 1: Statistics of TaoVA-100x

Start at: 2018-01-30 17:51:51

End at: 2018-01-30 17:52:22

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

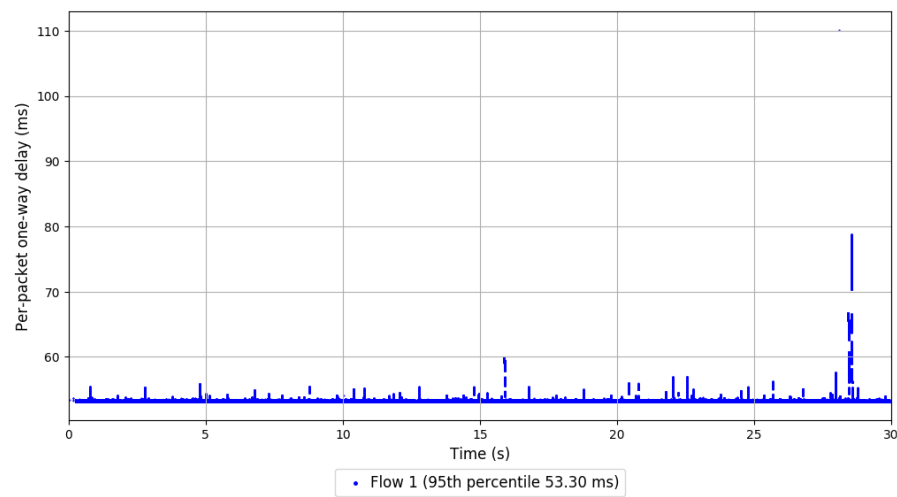
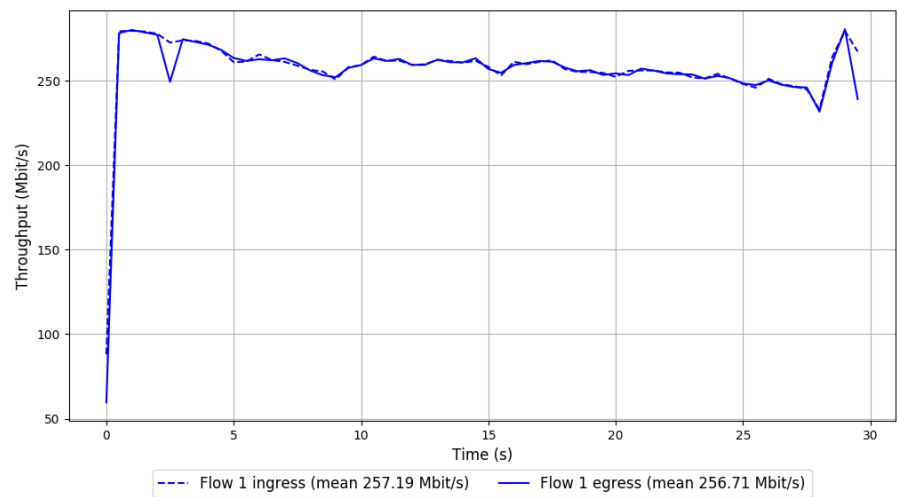


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-30 18:05:49
End at: 2018-01-30 18:06:19

# Below is generated by plot.py at 2018-01-30 22:56:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 256.71 Mbit/s
95th percentile per-packet one-way delay: 53.304 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 256.71 Mbit/s
95th percentile per-packet one-way delay: 53.304 ms
Loss rate: 0.53%
```

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

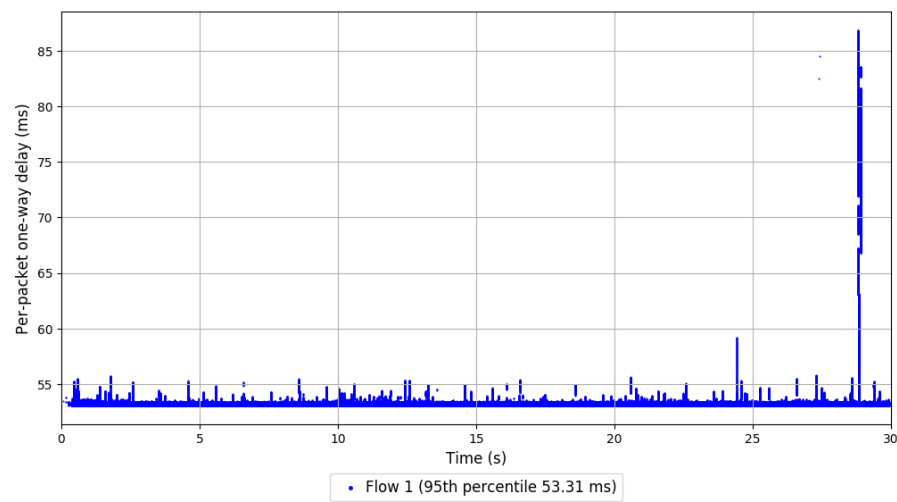
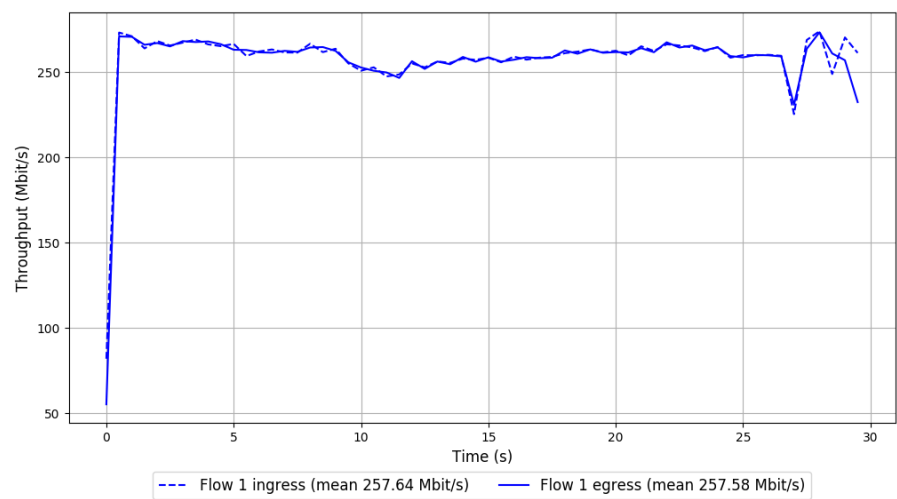


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-01-30 18:20:04
End at: 2018-01-30 18:20:34

# Below is generated by plot.py at 2018-01-30 22:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 257.58 Mbit/s
95th percentile per-packet one-way delay: 53.313 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 257.58 Mbit/s
95th percentile per-packet one-way delay: 53.313 ms
Loss rate: 0.38%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-01-30 18:34:15

End at: 2018-01-30 18:34:45

Below is generated by plot.py at 2018-01-30 22:56:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.26 Mbit/s

95th percentile per-packet one-way delay: 53.162 ms

Loss rate: 0.31%

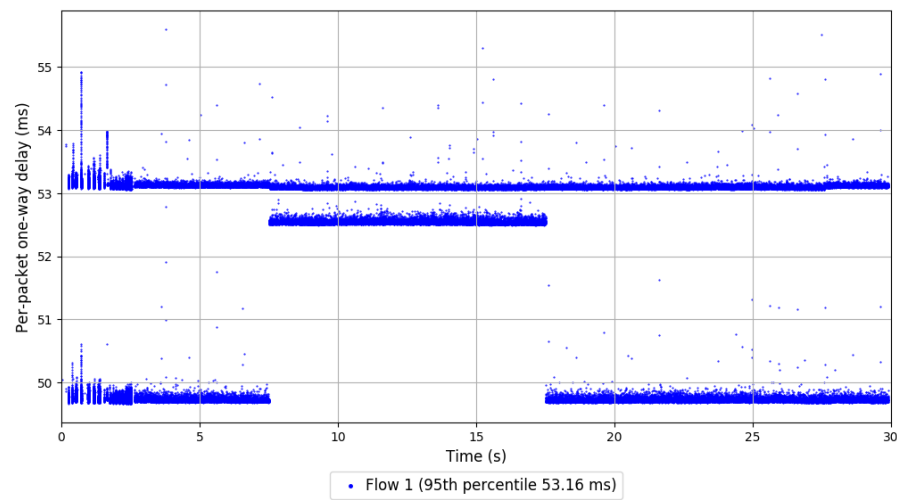
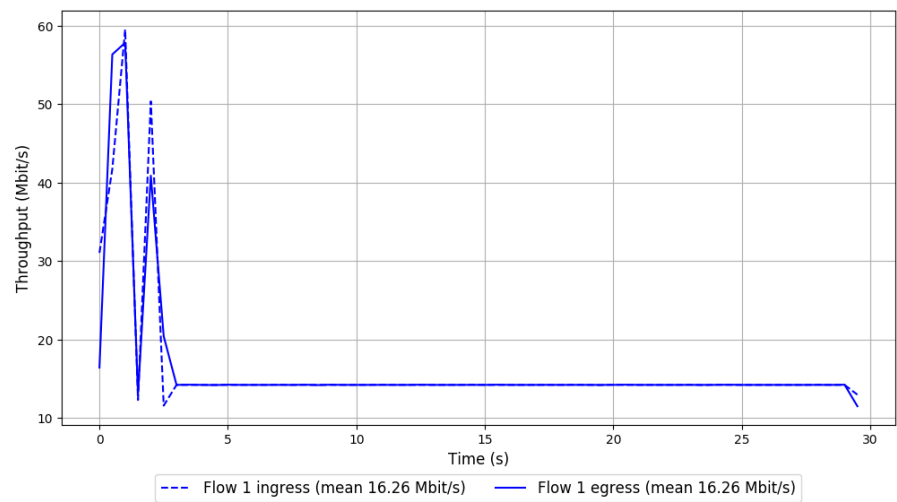
-- Flow 1:

Average throughput: 16.26 Mbit/s

95th percentile per-packet one-way delay: 53.162 ms

Loss rate: 0.31%

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

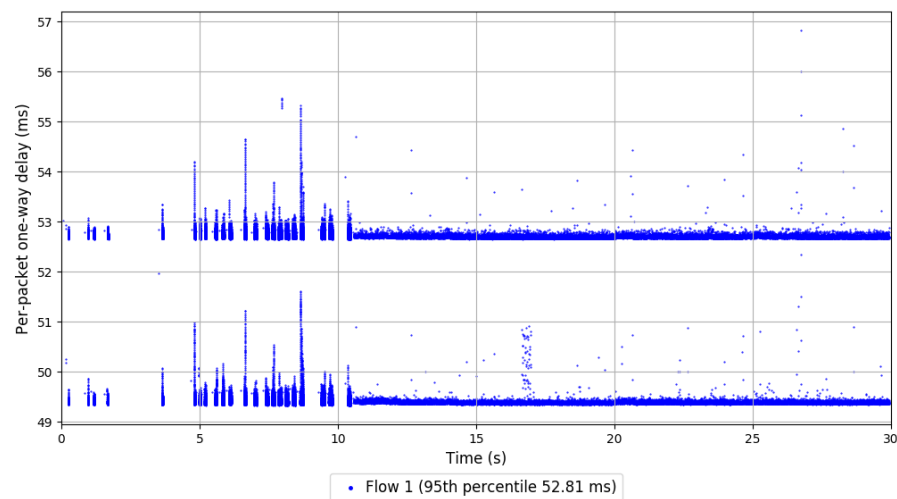
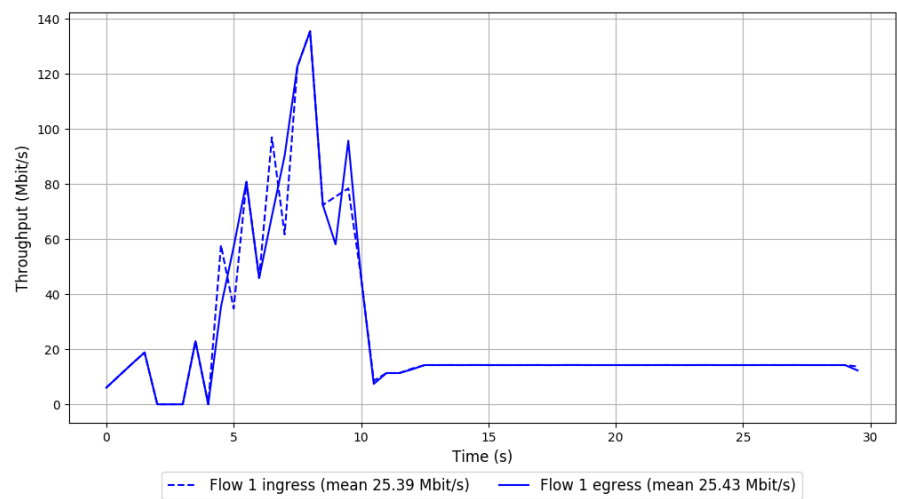


```
Run 5: Statistics of TaoVA-100x

Start at: 2018-01-30 18:48:22
End at: 2018-01-30 18:48:52

# Below is generated by plot.py at 2018-01-30 22:56:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.43 Mbit/s
95th percentile per-packet one-way delay: 52.813 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 25.43 Mbit/s
95th percentile per-packet one-way delay: 52.813 ms
Loss rate: 0.19%
```


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



Run 6: Statistics of TaoVA-100x

Start at: 2018-01-30 19:02:24

End at: 2018-01-30 19:02:54

Below is generated by plot.py at 2018-01-30 22:56:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.70 Mbit/s

95th percentile per-packet one-way delay: 53.124 ms

Loss rate: 0.14%

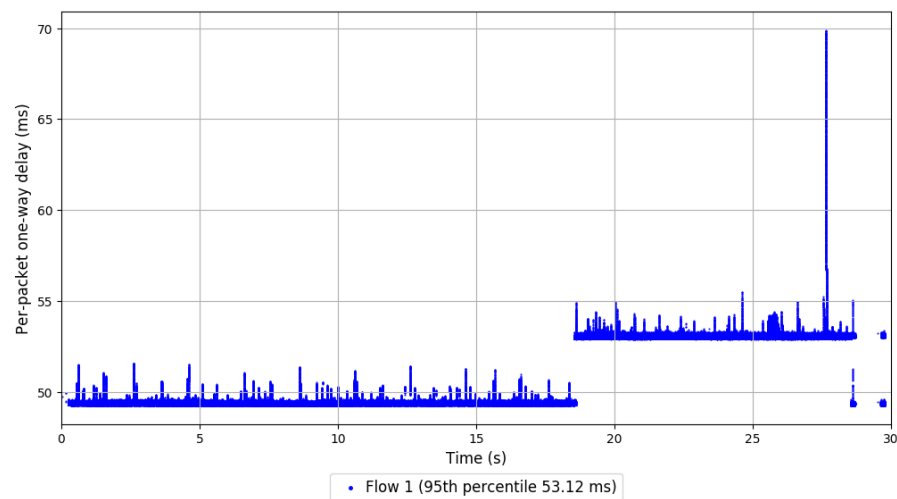
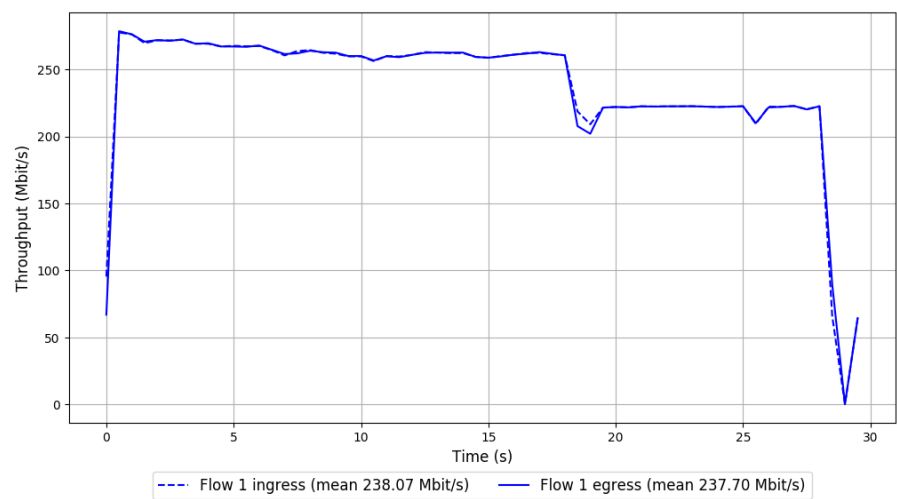
-- Flow 1:

Average throughput: 237.70 Mbit/s

95th percentile per-packet one-way delay: 53.124 ms

Loss rate: 0.14%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-01-30 19:16:39

End at: 2018-01-30 19:17:09

Below is generated by plot.py at 2018-01-30 22:56:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.68 Mbit/s

95th percentile per-packet one-way delay: 53.090 ms

Loss rate: 0.06%

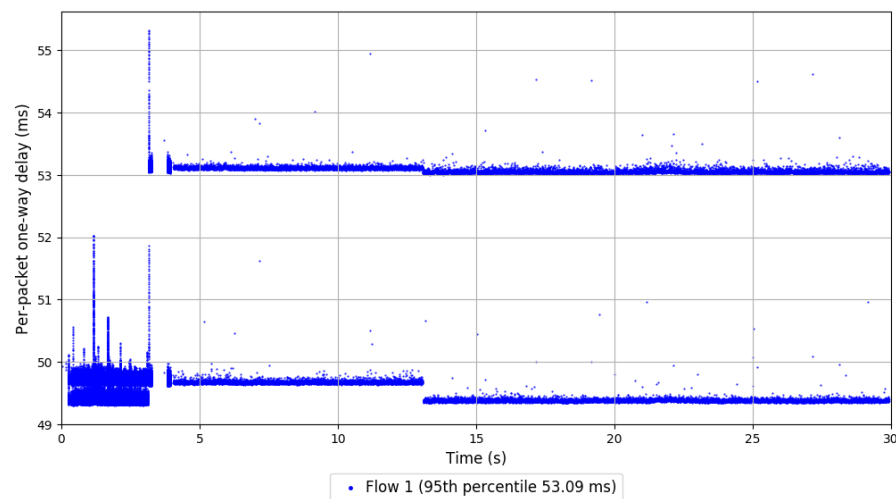
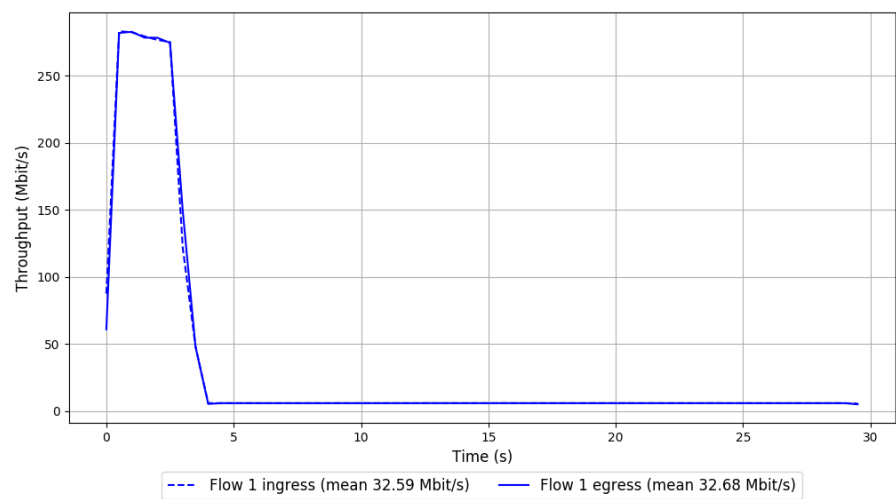
-- Flow 1:

Average throughput: 32.68 Mbit/s

95th percentile per-packet one-way delay: 53.090 ms

Loss rate: 0.06%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-01-30 19:30:33

End at: 2018-01-30 19:31:03

Below is generated by plot.py at 2018-01-30 22:56:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.43 Mbit/s

95th percentile per-packet one-way delay: 53.198 ms

Loss rate: 0.01%

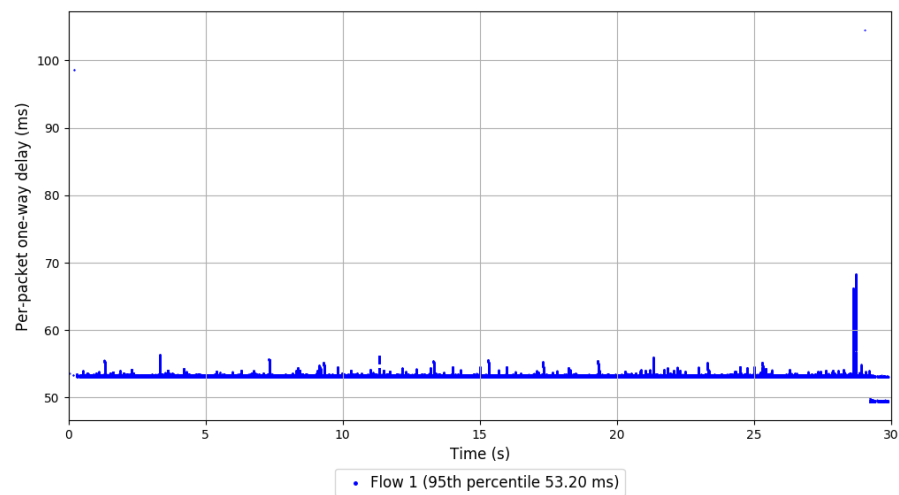
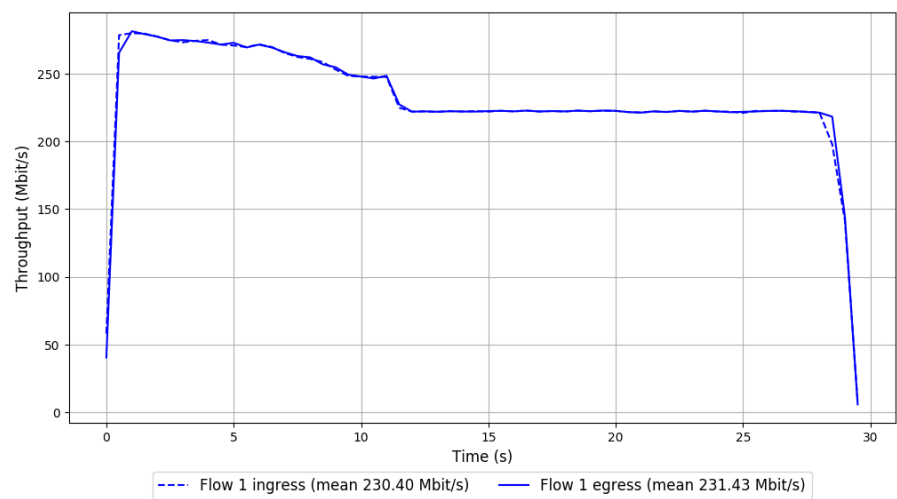
-- Flow 1:

Average throughput: 231.43 Mbit/s

95th percentile per-packet one-way delay: 53.198 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-30 19:44:24

End at: 2018-01-30 19:44:54

Below is generated by plot.py at 2018-01-30 22:56:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.77 Mbit/s

95th percentile per-packet one-way delay: 53.079 ms

Loss rate: 0.37%

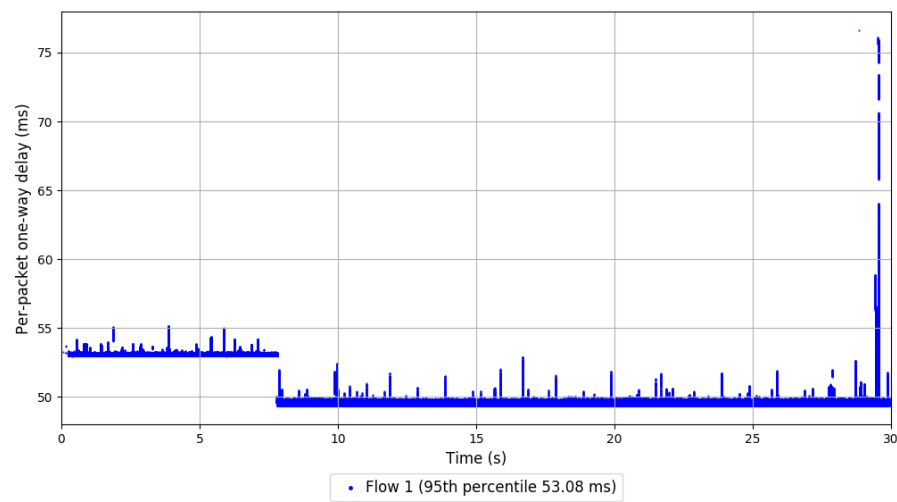
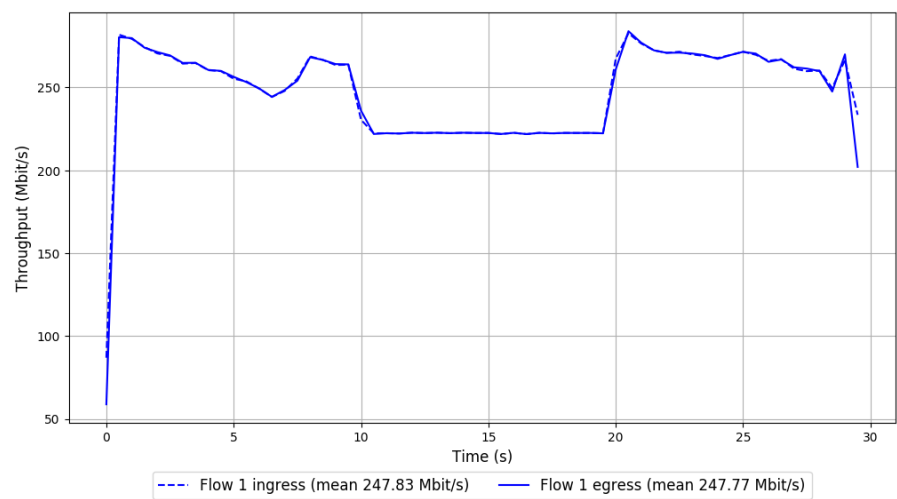
-- Flow 1:

Average throughput: 247.77 Mbit/s

95th percentile per-packet one-way delay: 53.079 ms

Loss rate: 0.37%

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

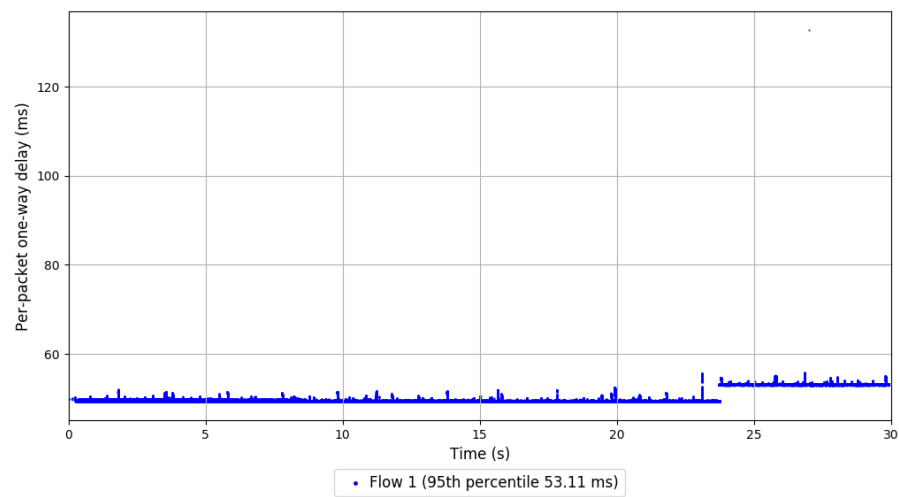
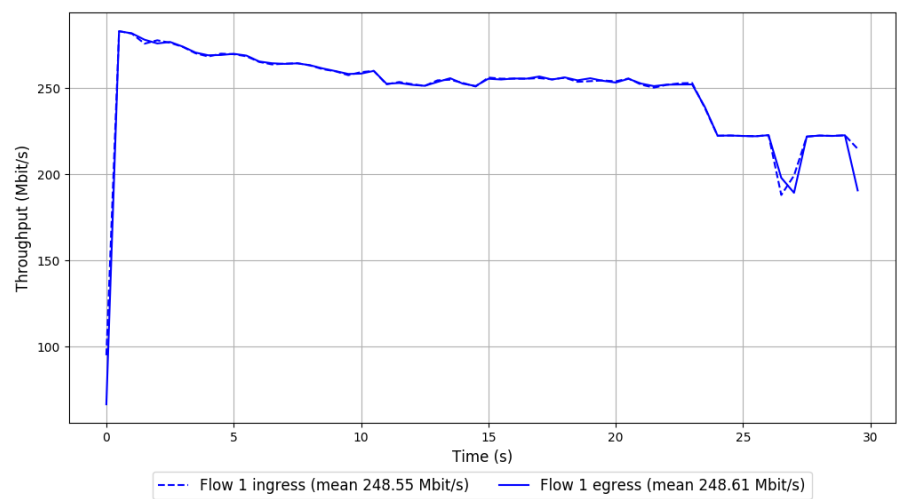


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-30 19:58:38
End at: 2018-01-30 19:59:08

# Below is generated by plot.py at 2018-01-30 22:57:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.61 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 248.61 Mbit/s
95th percentile per-packet one-way delay: 53.106 ms
Loss rate: 0.32%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-30 17:45:08

End at: 2018-01-30 17:45:38

Below is generated by plot.py at 2018-01-30 22:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.56 Mbit/s

95th percentile per-packet one-way delay: 55.168 ms

Loss rate: 0.77%

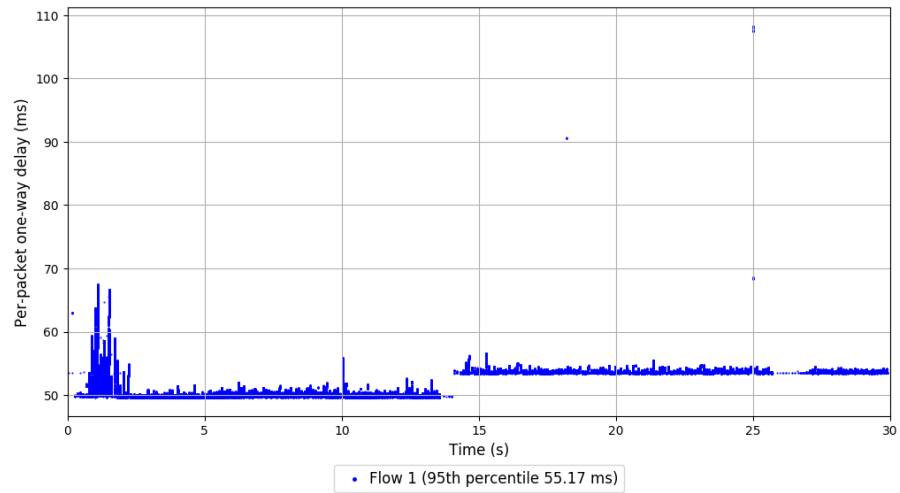
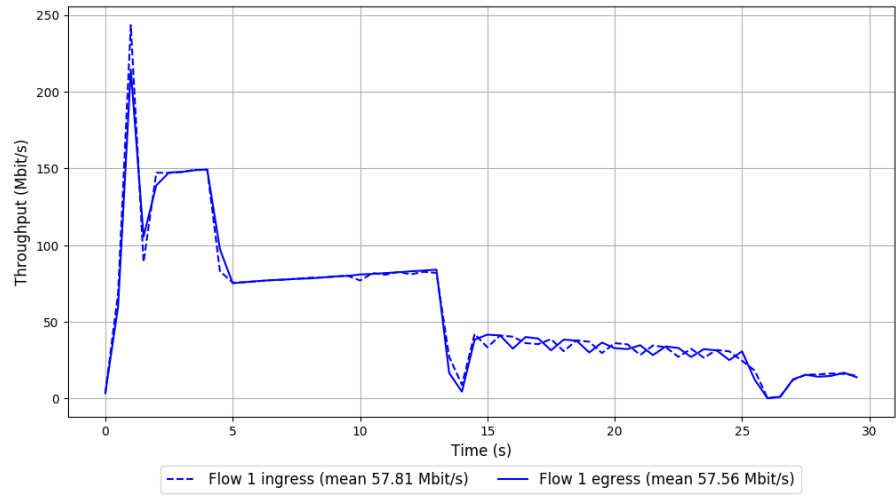
-- Flow 1:

Average throughput: 57.56 Mbit/s

95th percentile per-packet one-way delay: 55.168 ms

Loss rate: 0.77%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-30 17:59:05

End at: 2018-01-30 17:59:35

Below is generated by plot.py at 2018-01-30 22:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.92 Mbit/s

95th percentile per-packet one-way delay: 55.070 ms

Loss rate: 1.39%

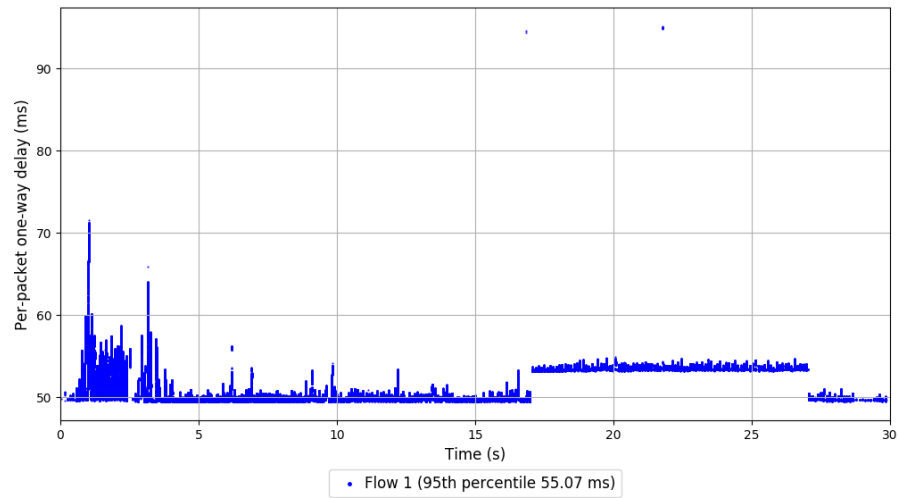
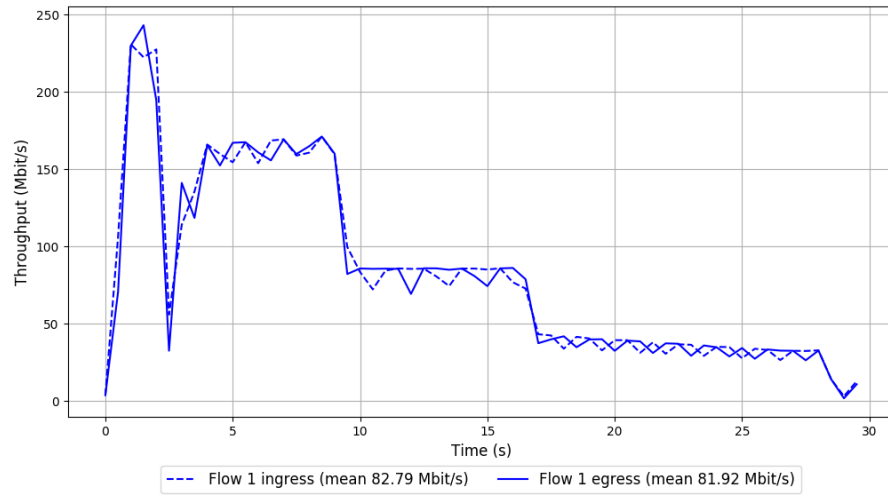
-- Flow 1:

Average throughput: 81.92 Mbit/s

95th percentile per-packet one-way delay: 55.070 ms

Loss rate: 1.39%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-30 18:13:19

End at: 2018-01-30 18:13:49

Below is generated by plot.py at 2018-01-30 22:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 58.721 ms

Loss rate: 1.68%

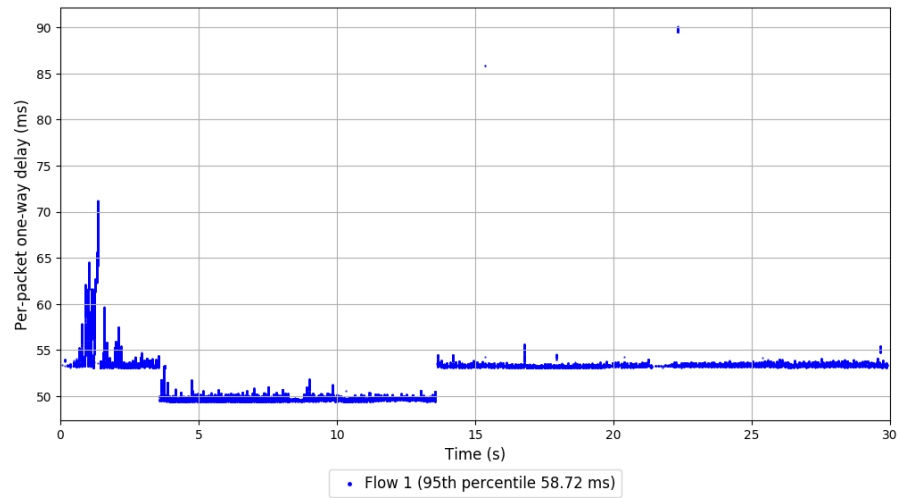
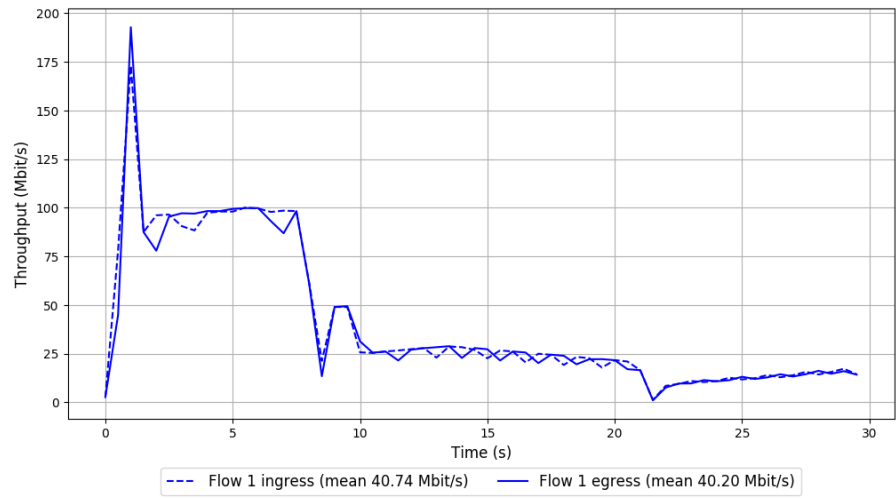
-- Flow 1:

Average throughput: 40.20 Mbit/s

95th percentile per-packet one-way delay: 58.721 ms

Loss rate: 1.68%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-30 18:27:29

End at: 2018-01-30 18:27:59

Below is generated by plot.py at 2018-01-30 22:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 54.366 ms

Loss rate: 0.24%

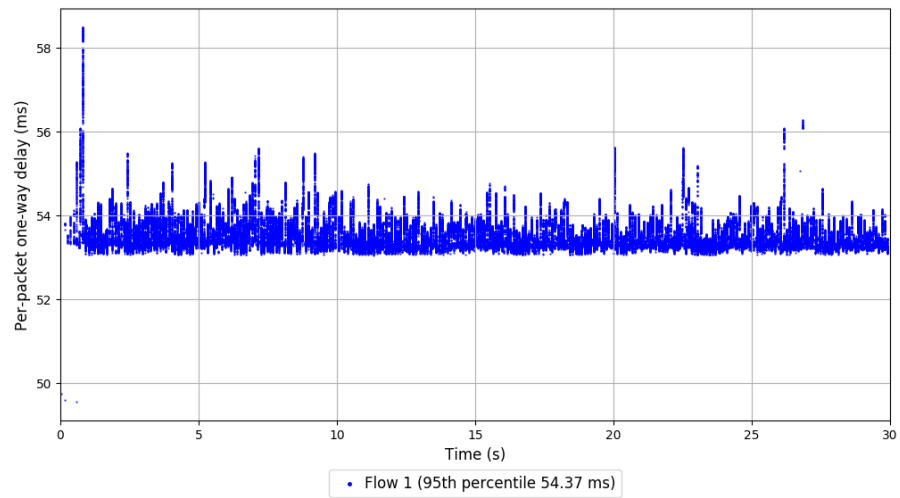
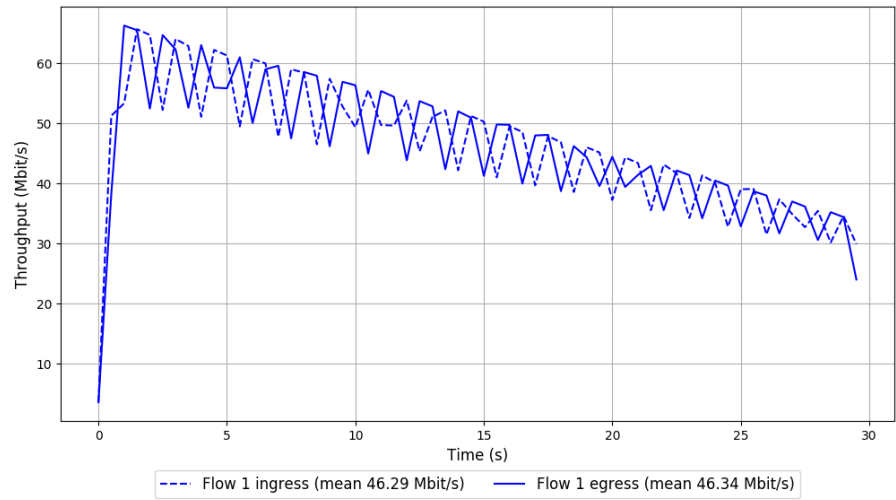
-- Flow 1:

Average throughput: 46.34 Mbit/s

95th percentile per-packet one-way delay: 54.366 ms

Loss rate: 0.24%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-30 18:41:33

End at: 2018-01-30 18:42:03

Below is generated by plot.py at 2018-01-30 22:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 58.216 ms

Loss rate: 0.35%

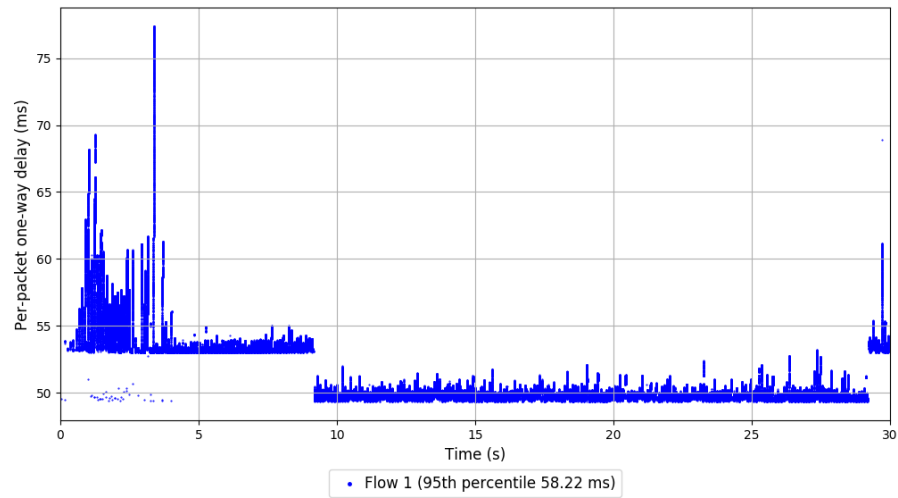
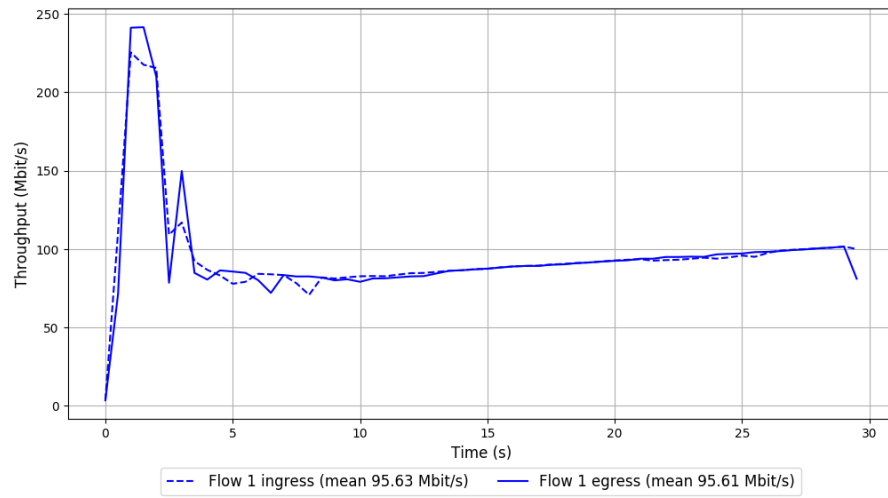
-- Flow 1:

Average throughput: 95.61 Mbit/s

95th percentile per-packet one-way delay: 58.216 ms

Loss rate: 0.35%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-30 18:55:37

End at: 2018-01-30 18:56:07

Below is generated by plot.py at 2018-01-30 22:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 55.476 ms

Loss rate: 1.31%

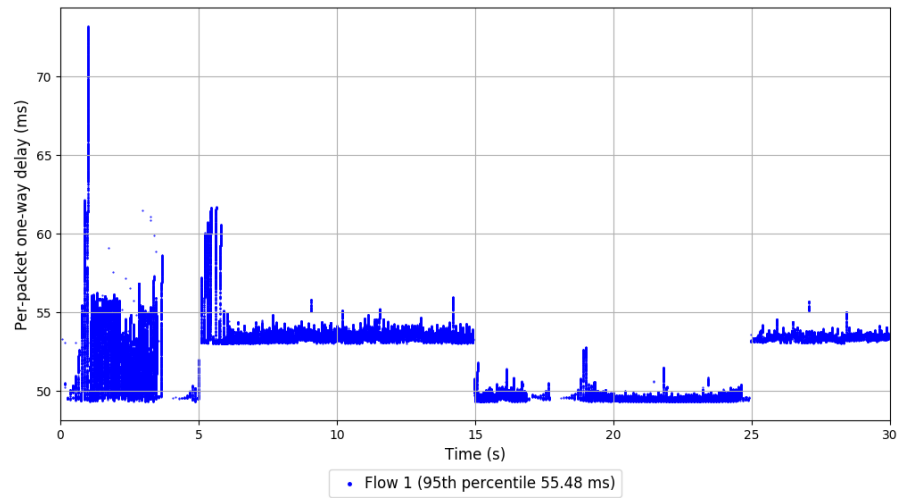
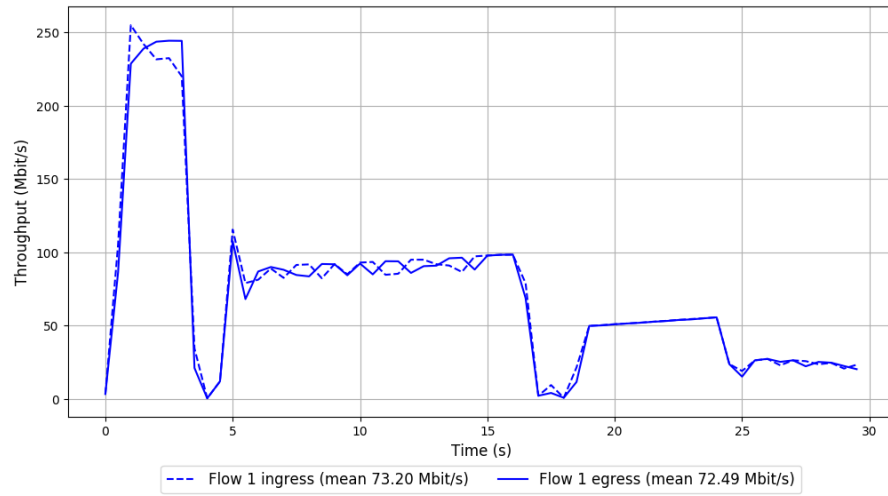
-- Flow 1:

Average throughput: 72.49 Mbit/s

95th percentile per-packet one-way delay: 55.476 ms

Loss rate: 1.31%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-30 19:09:53

End at: 2018-01-30 19:10:23

Below is generated by plot.py at 2018-01-30 22:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.98 Mbit/s

95th percentile per-packet one-way delay: 55.056 ms

Loss rate: 0.83%

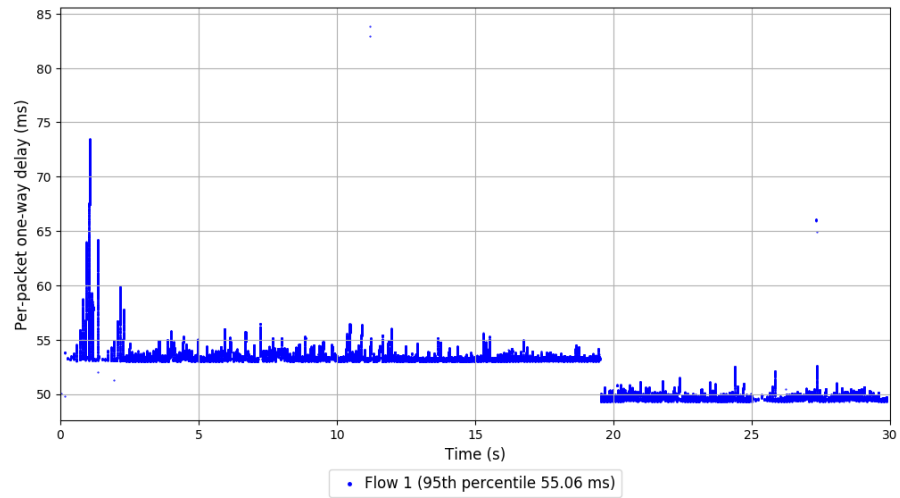
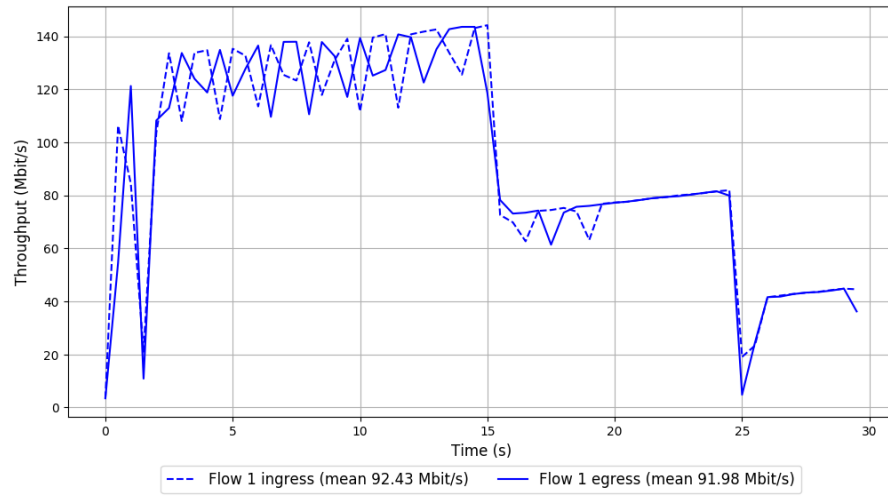
-- Flow 1:

Average throughput: 91.98 Mbit/s

95th percentile per-packet one-way delay: 55.056 ms

Loss rate: 0.83%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-30 19:23:59

End at: 2018-01-30 19:24:29

Below is generated by plot.py at 2018-01-30 22:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.06 Mbit/s

95th percentile per-packet one-way delay: 55.402 ms

Loss rate: 1.75%

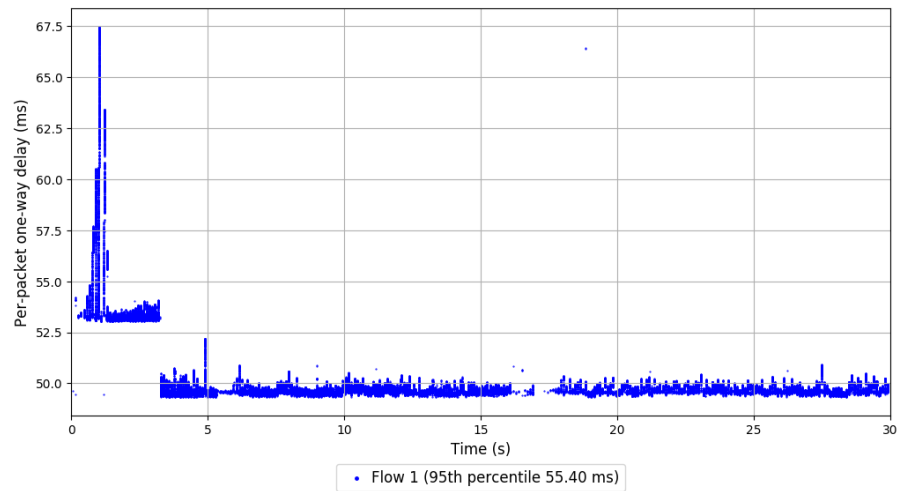
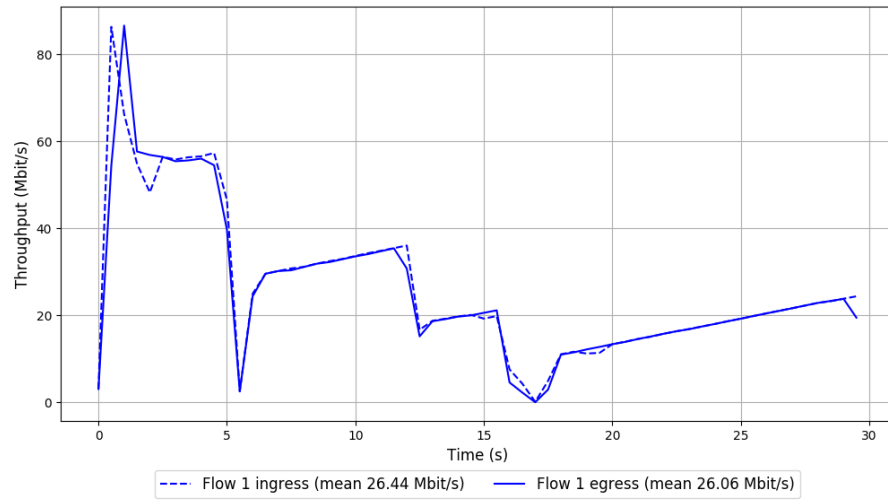
-- Flow 1:

Average throughput: 26.06 Mbit/s

95th percentile per-packet one-way delay: 55.402 ms

Loss rate: 1.75%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-30 19:38:00

End at: 2018-01-30 19:38:30

Below is generated by plot.py at 2018-01-30 22:57:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 53.907 ms

Loss rate: 2.83%

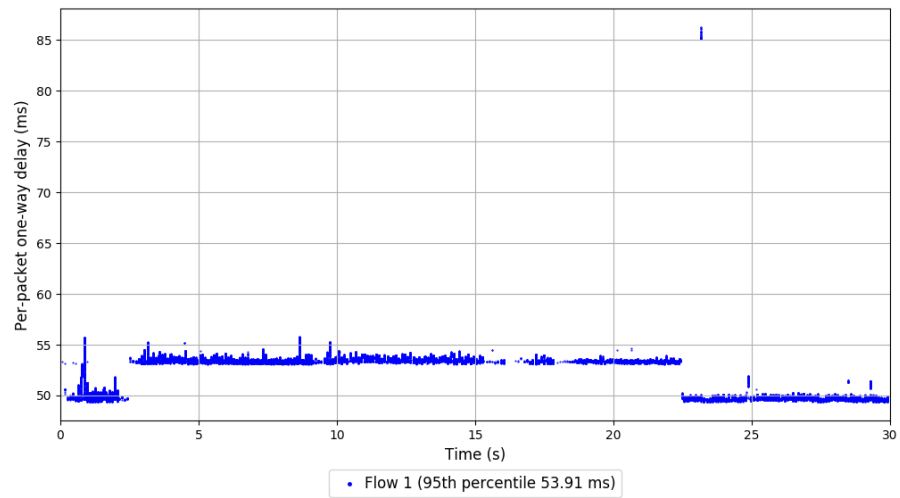
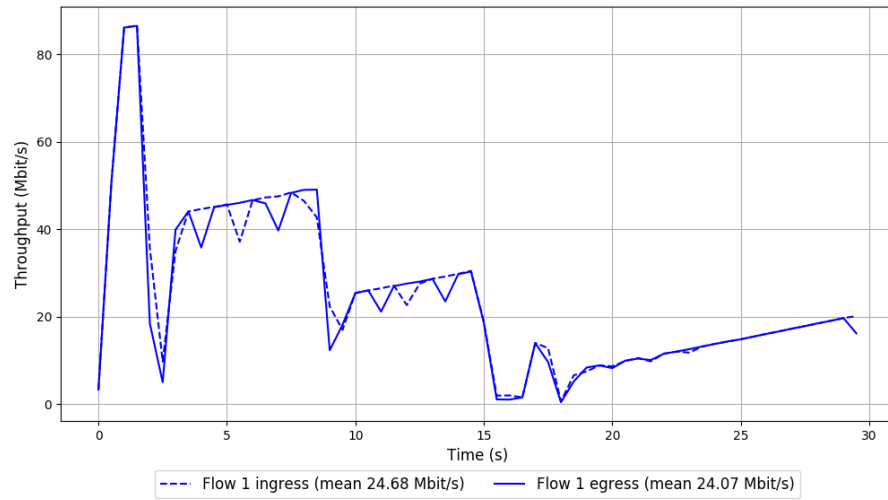
-- Flow 1:

Average throughput: 24.07 Mbit/s

95th percentile per-packet one-way delay: 53.907 ms

Loss rate: 2.83%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-30 19:51:53

End at: 2018-01-30 19:52:23

Below is generated by plot.py at 2018-01-30 22:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.01 Mbit/s

95th percentile per-packet one-way delay: 56.395 ms

Loss rate: 0.63%

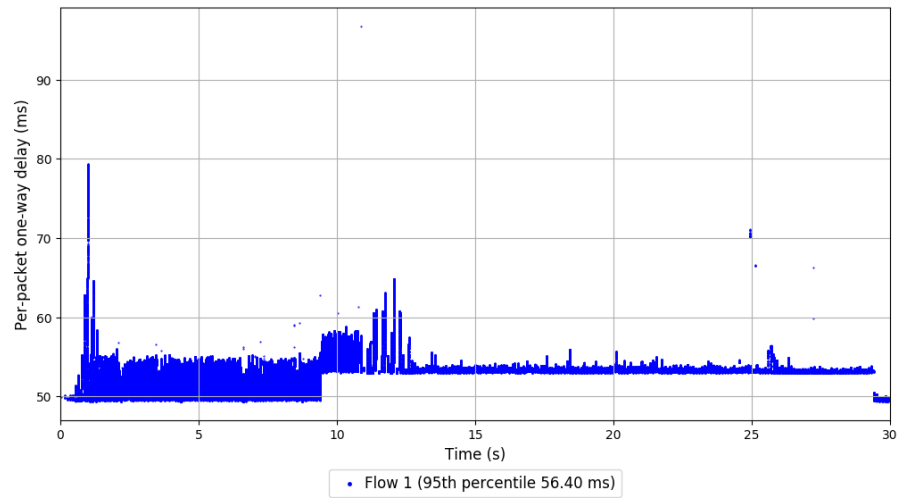
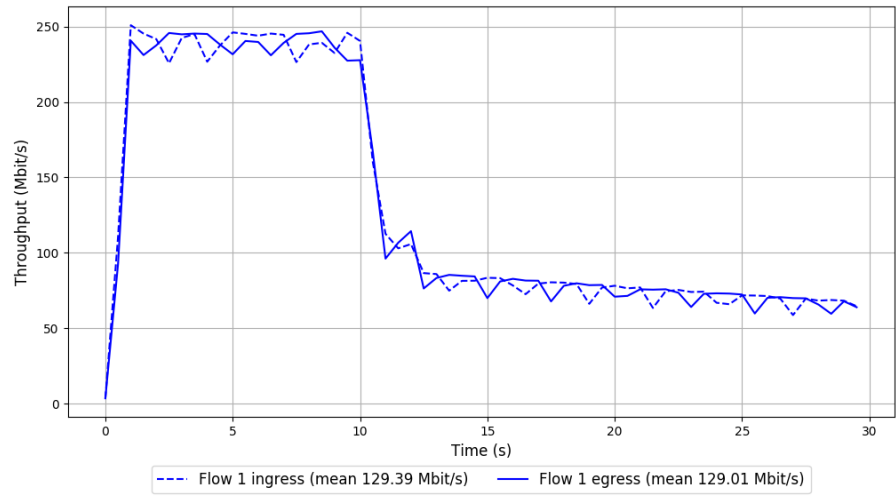
-- Flow 1:

Average throughput: 129.01 Mbit/s

95th percentile per-packet one-way delay: 56.395 ms

Loss rate: 0.63%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-30 17:47:23

End at: 2018-01-30 17:47:53

Below is generated by plot.py at 2018-01-30 23:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.37 Mbit/s

95th percentile per-packet one-way delay: 73.839 ms

Loss rate: 1.17%

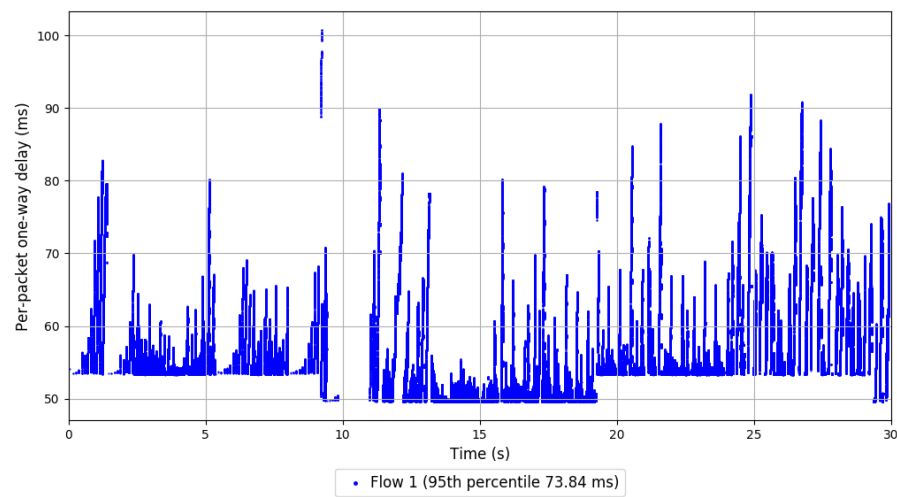
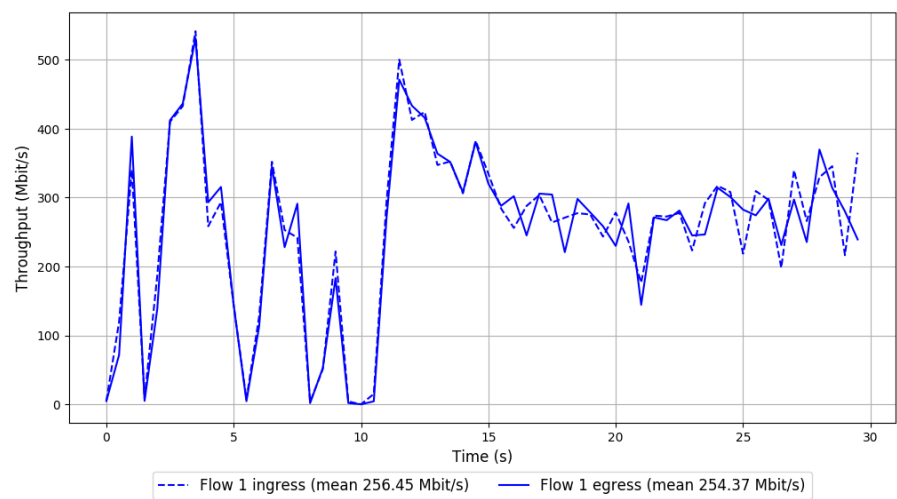
-- Flow 1:

Average throughput: 254.37 Mbit/s

95th percentile per-packet one-way delay: 73.839 ms

Loss rate: 1.17%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-30 18:01:24

End at: 2018-01-30 18:01:54

Below is generated by plot.py at 2018-01-30 23:01:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.18 Mbit/s

95th percentile per-packet one-way delay: 112.092 ms

Loss rate: 0.94%

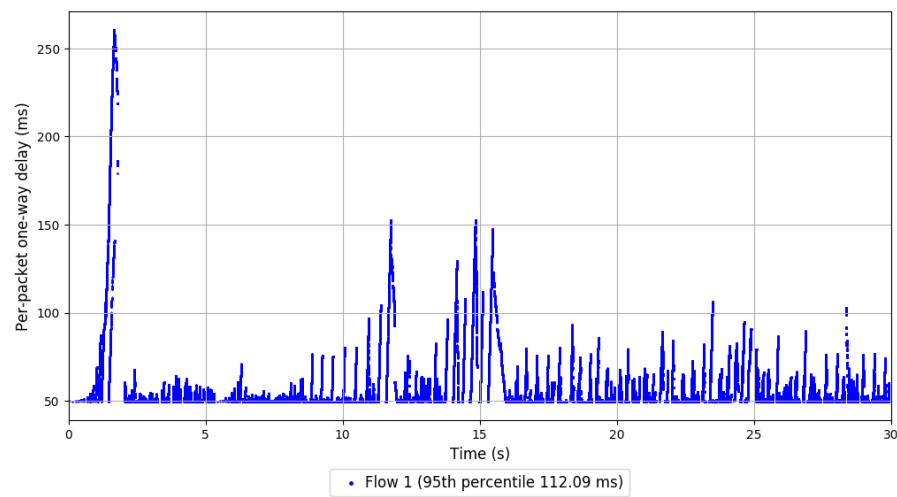
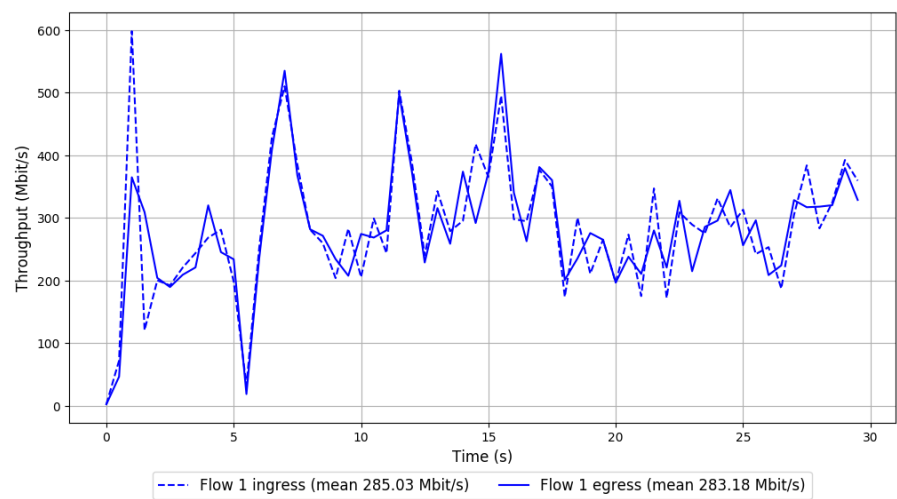
-- Flow 1:

Average throughput: 283.18 Mbit/s

95th percentile per-packet one-way delay: 112.092 ms

Loss rate: 0.94%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-30 18:15:36

End at: 2018-01-30 18:16:06

Below is generated by plot.py at 2018-01-30 23:02:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.57 Mbit/s

95th percentile per-packet one-way delay: 161.923 ms

Loss rate: 0.35%

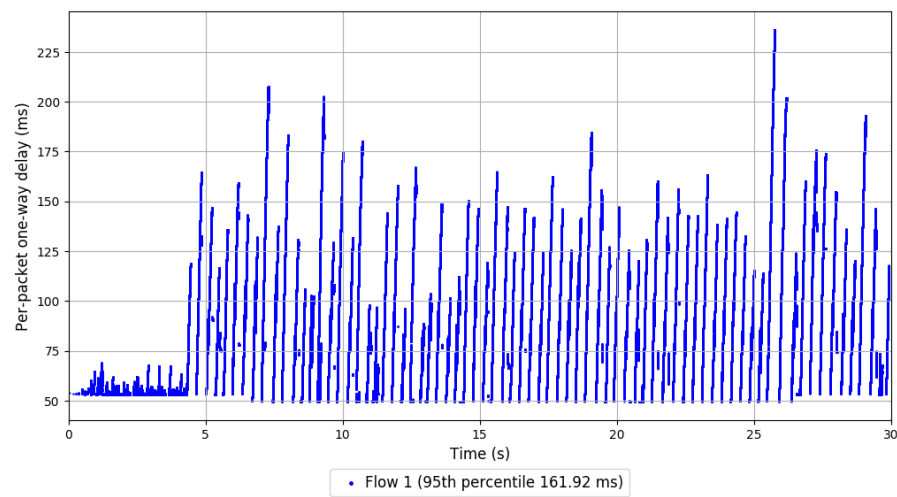
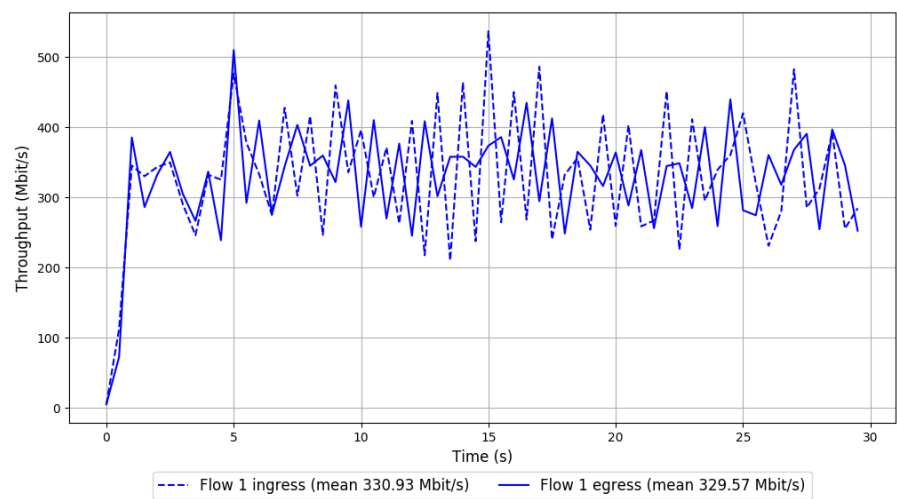
-- Flow 1:

Average throughput: 329.57 Mbit/s

95th percentile per-packet one-way delay: 161.923 ms

Loss rate: 0.35%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-30 18:29:48

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

Below is generated by plot.py at 2018-01-30 23:02:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.90 Mbit/s

95th percentile per-packet one-way delay: 171.685 ms

Loss rate: 0.40%

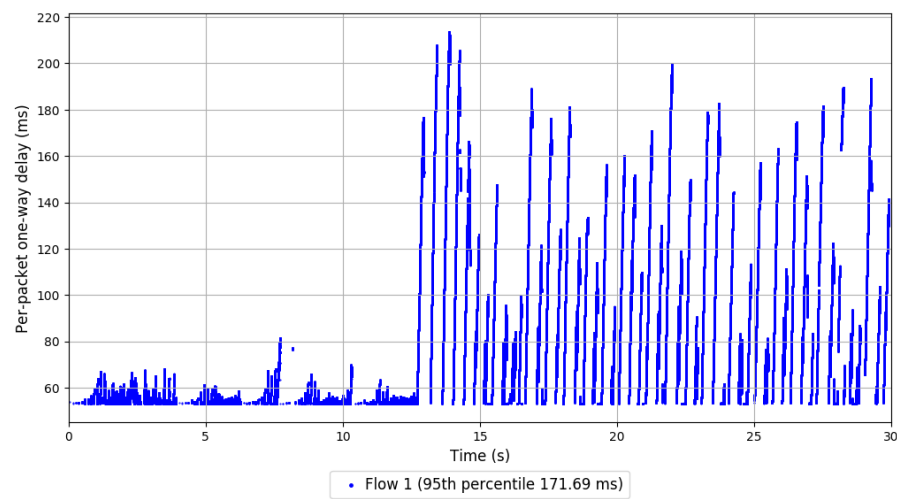
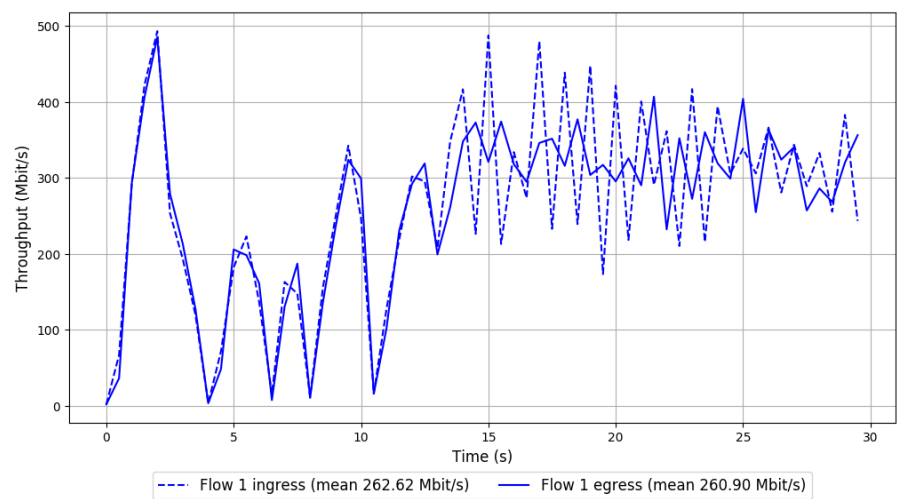
-- Flow 1:

Average throughput: 260.90 Mbit/s

95th percentile per-packet one-way delay: 171.685 ms

Loss rate: 0.40%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-30 18:43:55

End at: 2018-01-30 18:44:25

Below is generated by plot.py at 2018-01-30 23:02:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.66 Mbit/s

95th percentile per-packet one-way delay: 97.344 ms

Loss rate: 1.10%

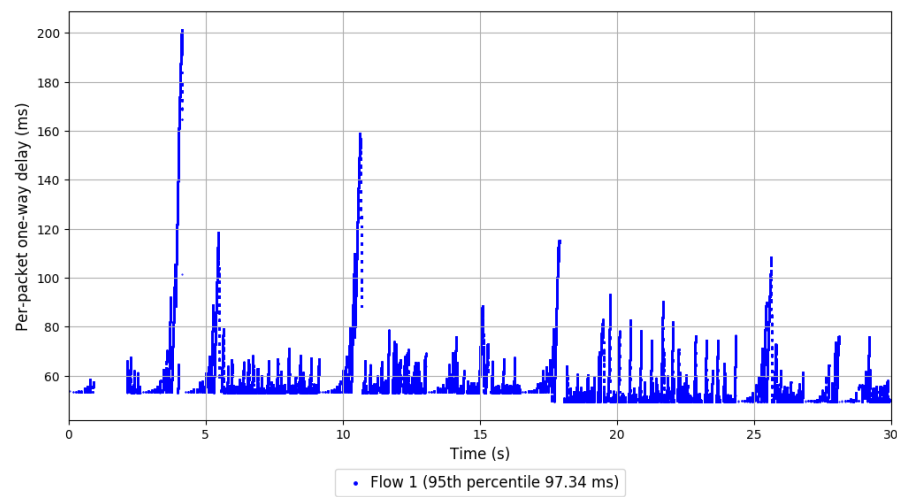
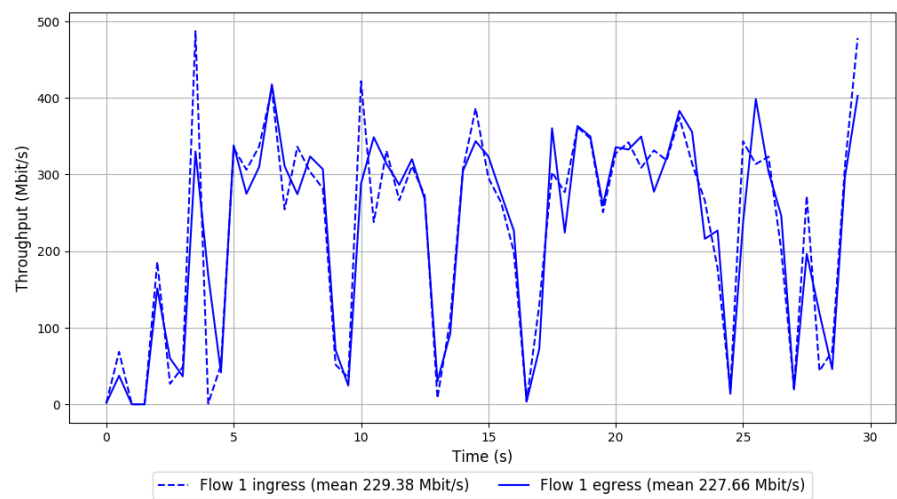
-- Flow 1:

Average throughput: 227.66 Mbit/s

95th percentile per-packet one-way delay: 97.344 ms

Loss rate: 1.10%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-01-30 18:58:02

End at: 2018-01-30 18:58:32

Below is generated by plot.py at 2018-01-30 23:02:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 75.465 ms

Loss rate: 0.68%

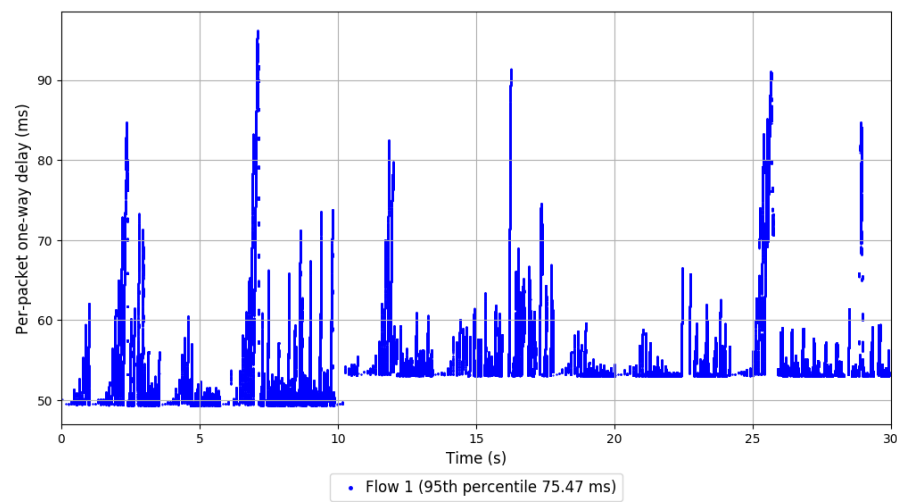
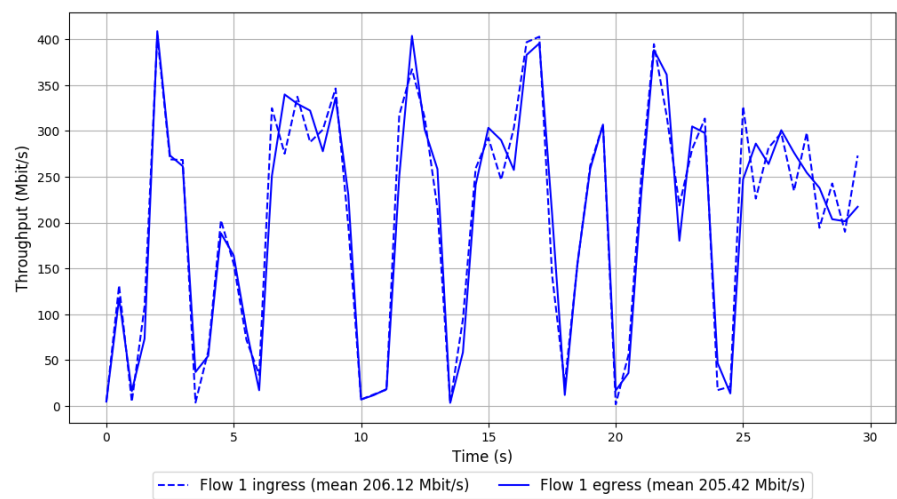
-- Flow 1:

Average throughput: 205.42 Mbit/s

95th percentile per-packet one-way delay: 75.465 ms

Loss rate: 0.68%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-30 19:12:13

End at: 2018-01-30 19:12:43

Below is generated by plot.py at 2018-01-30 23:02:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.51 Mbit/s

95th percentile per-packet one-way delay: 119.034 ms

Loss rate: 0.70%

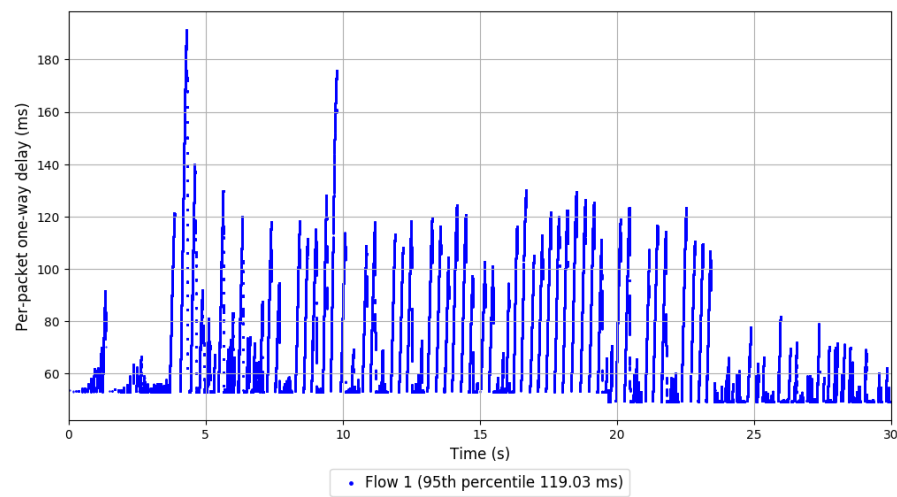
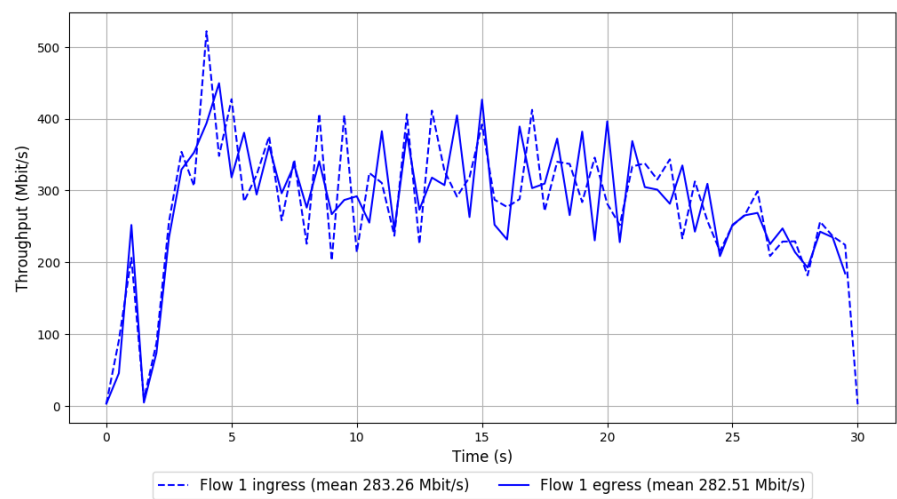
-- Flow 1:

Average throughput: 282.51 Mbit/s

95th percentile per-packet one-way delay: 119.034 ms

Loss rate: 0.70%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-30 19:26:16

End at: 2018-01-30 19:26:46

Below is generated by plot.py at 2018-01-30 23:02:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.21 Mbit/s

95th percentile per-packet one-way delay: 67.968 ms

Loss rate: 0.30%

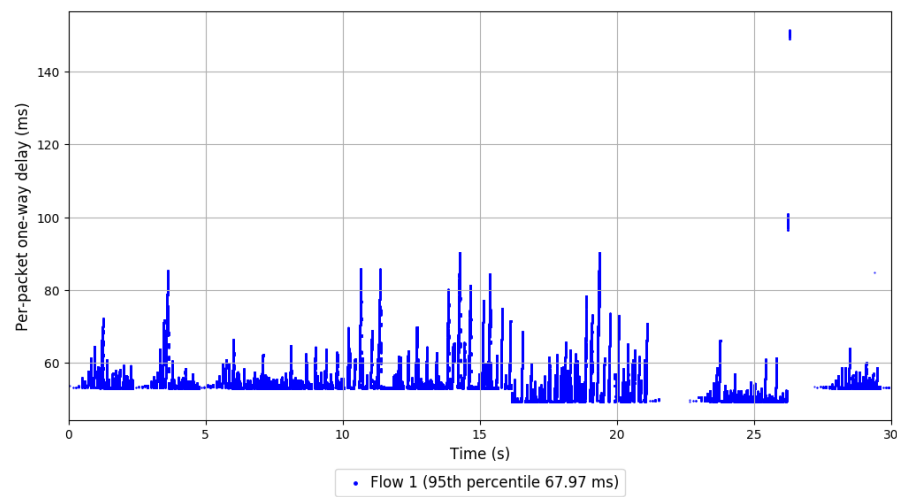
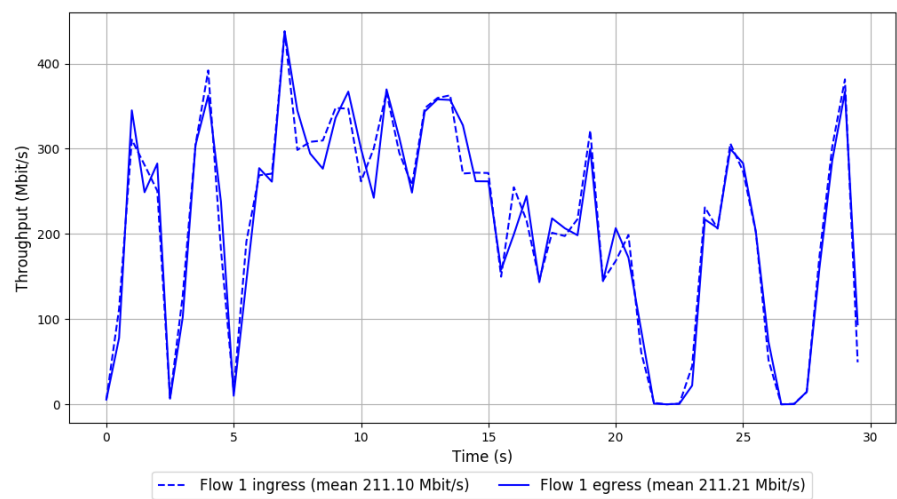
-- Flow 1:

Average throughput: 211.21 Mbit/s

95th percentile per-packet one-way delay: 67.968 ms

Loss rate: 0.30%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-30 19:40:11

End at: 2018-01-30 19:40:41

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.75 Mbit/s

95th percentile per-packet one-way delay: 95.688 ms

Loss rate: 0.45%

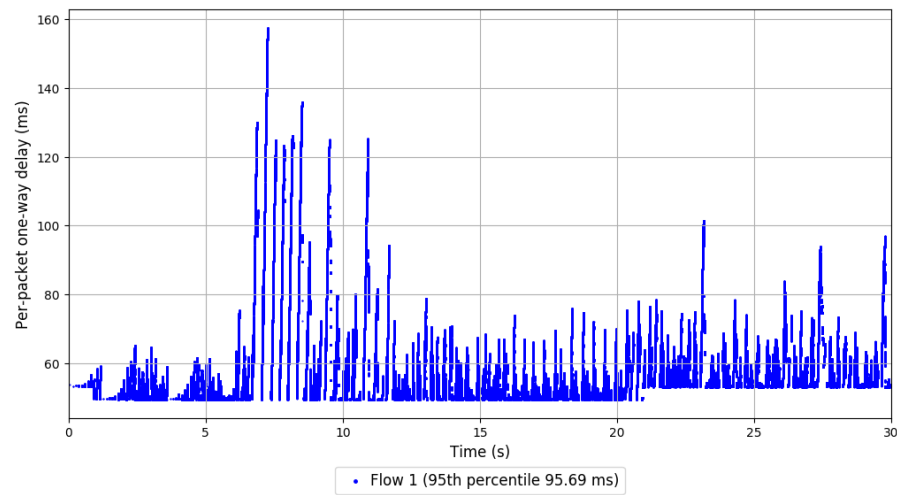
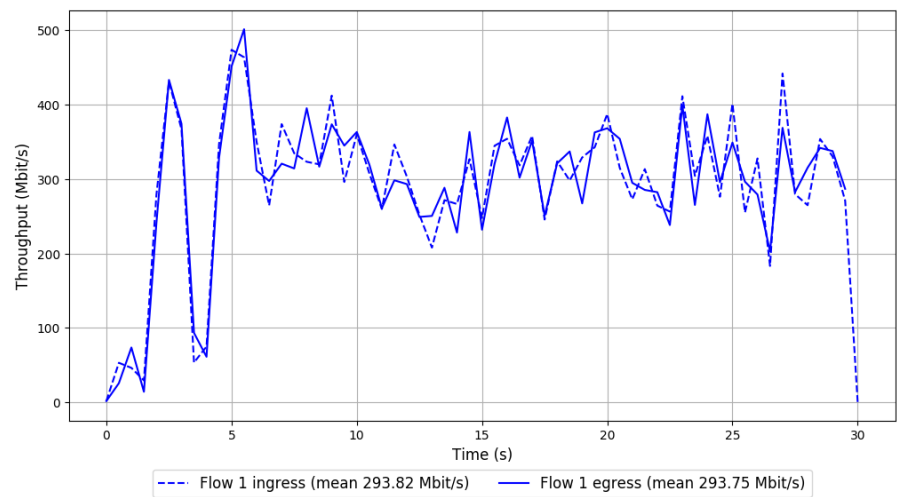
-- Flow 1:

Average throughput: 293.75 Mbit/s

95th percentile per-packet one-way delay: 95.688 ms

Loss rate: 0.45%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-30 19:54:16

End at: 2018-01-30 19:54:46

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.48 Mbit/s

95th percentile per-packet one-way delay: 70.772 ms

Loss rate: 0.68%

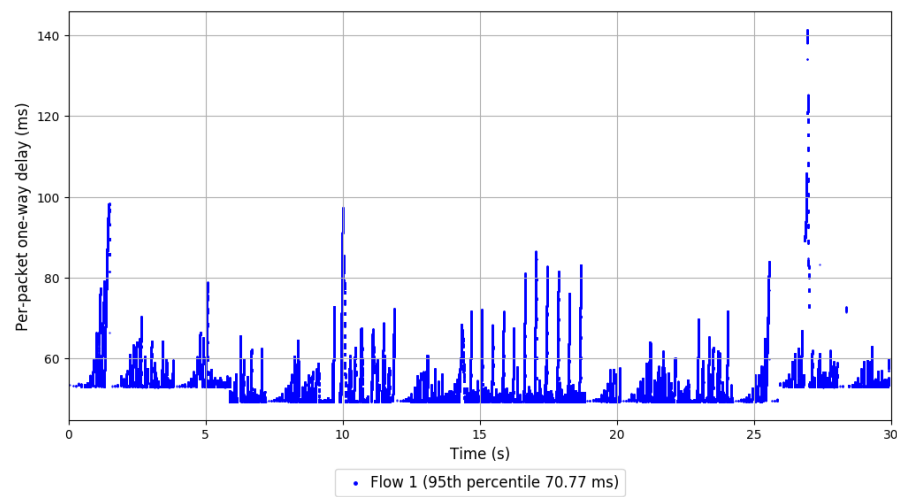
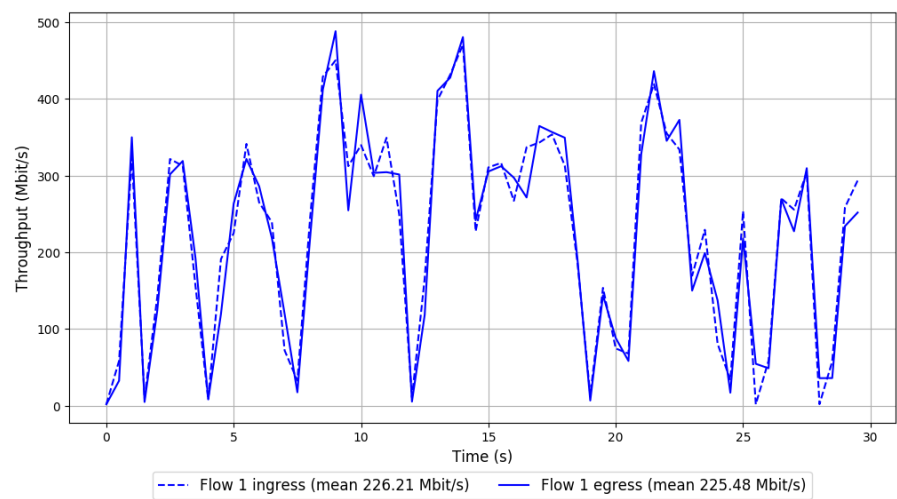
-- Flow 1:

Average throughput: 225.48 Mbit/s

95th percentile per-packet one-way delay: 70.772 ms

Loss rate: 0.68%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-30 17:52:30

End at: 2018-01-30 17:53:00

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.47 Mbit/s

95th percentile per-packet one-way delay: 53.326 ms

Loss rate: 0.46%

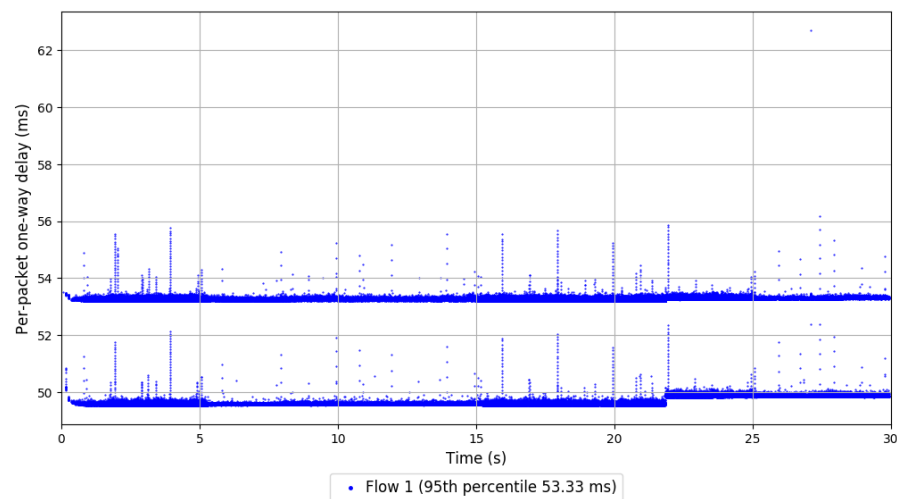
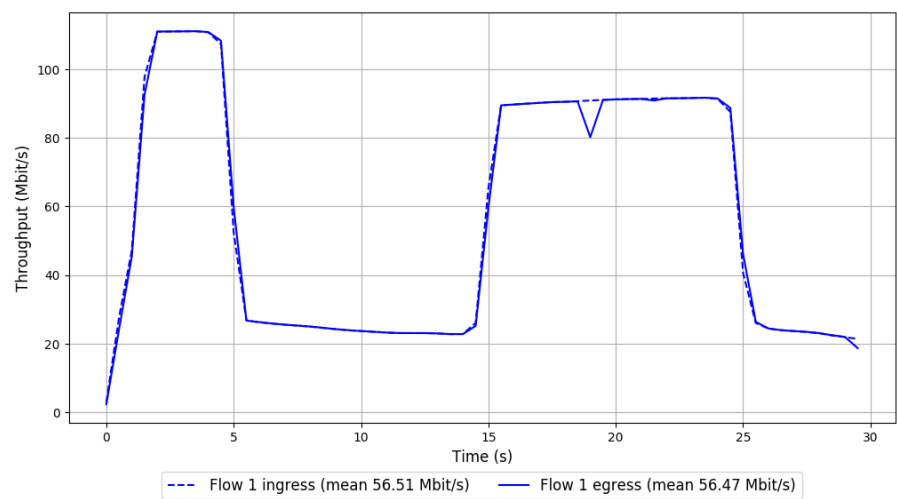
-- Flow 1:

Average throughput: 56.47 Mbit/s

95th percentile per-packet one-way delay: 53.326 ms

Loss rate: 0.46%

Run 1: Report of Copa — Data Link

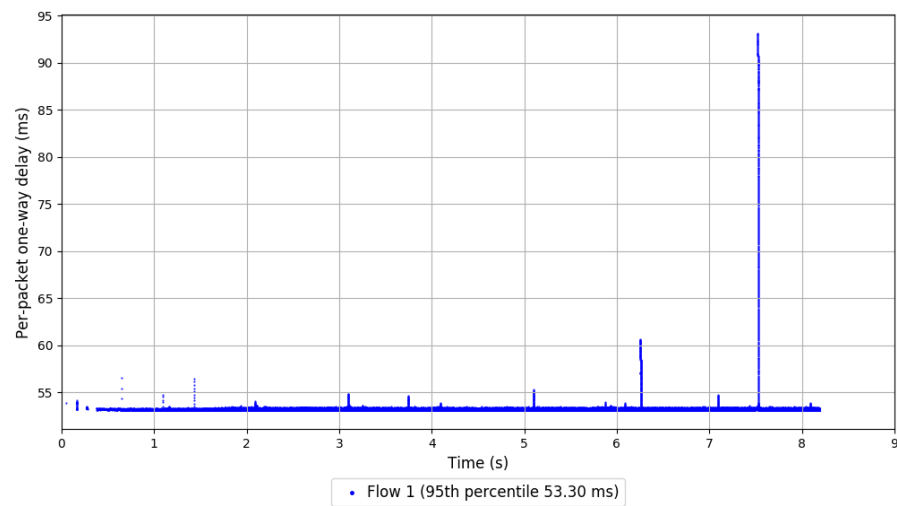
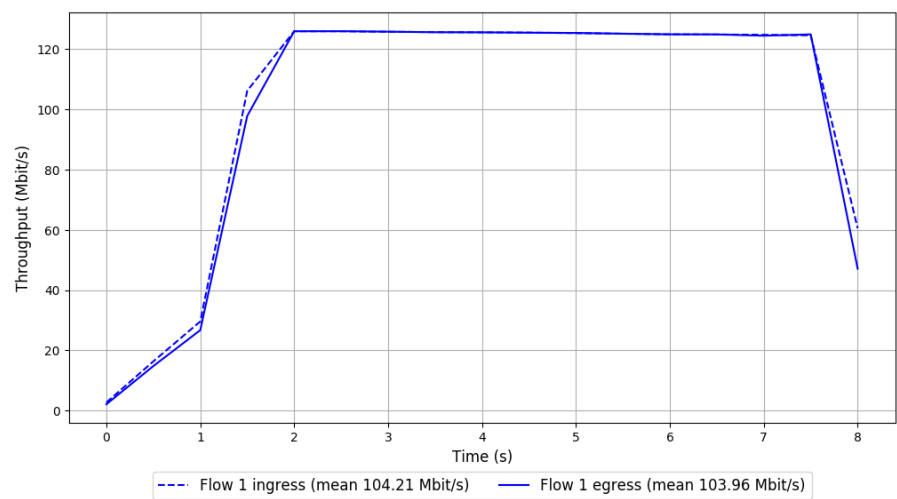


Run 2: Statistics of Copa

Start at: 2018-01-30 18:06:47

End at: 2018-01-30 18:07:17

Run 2: Report of Copa — Data Link

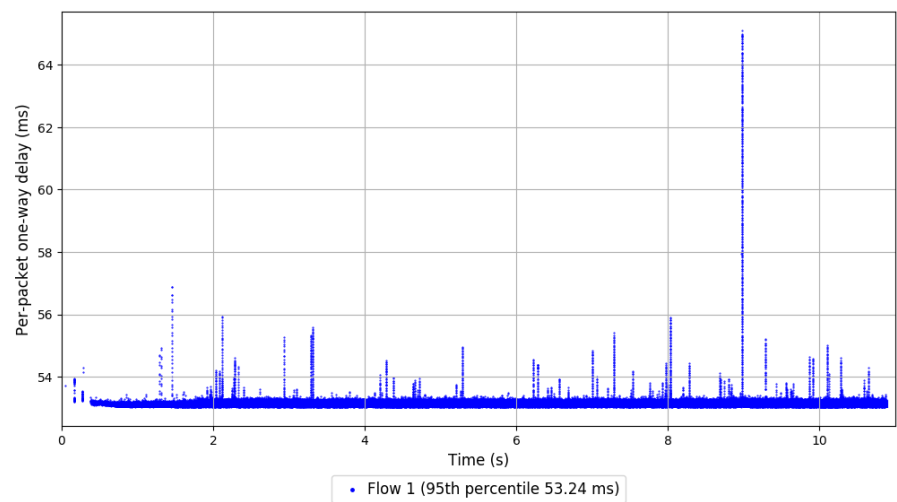
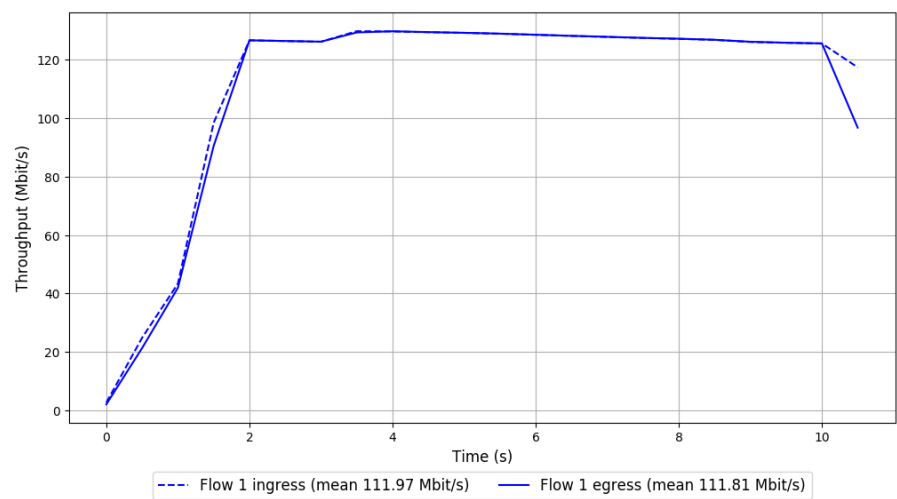


Run 3: Statistics of Copa

Start at: 2018-01-30 18:21:02

End at: 2018-01-30 18:21:32

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-30 18:34:53

End at: 2018-01-30 18:35:23

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.85 Mbit/s

95th percentile per-packet one-way delay: 53.177 ms

Loss rate: 0.36%

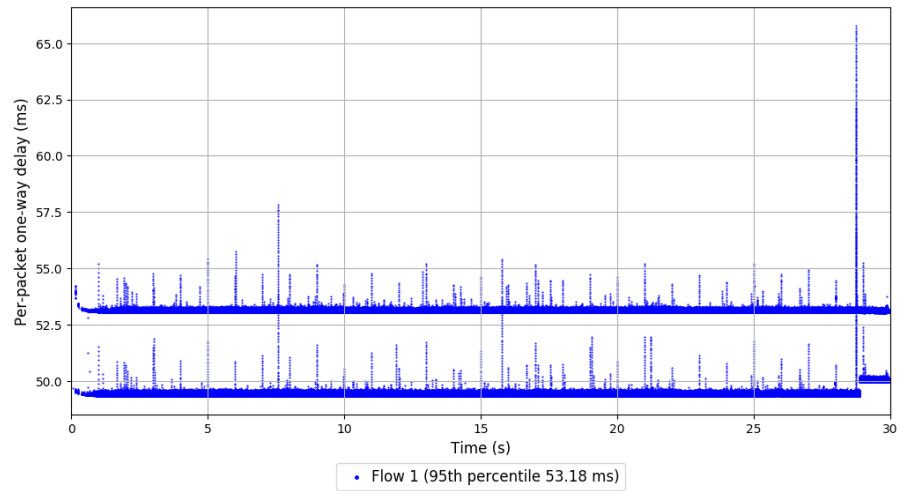
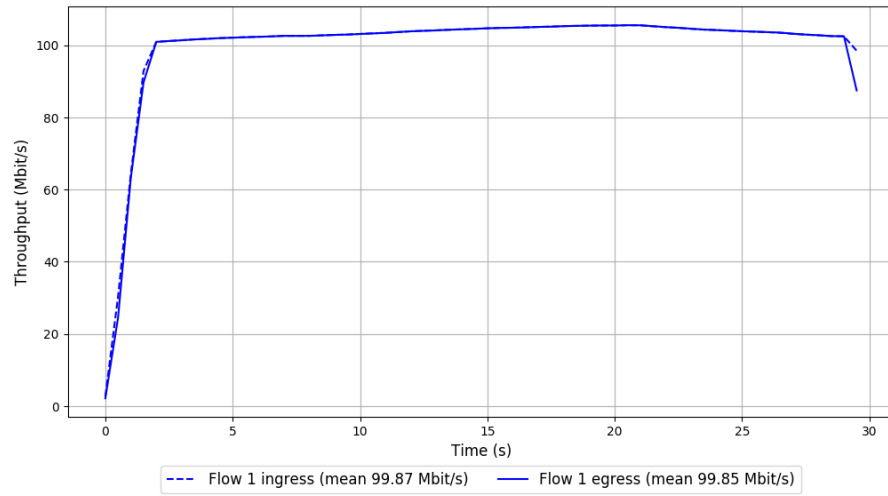
-- Flow 1:

Average throughput: 99.85 Mbit/s

95th percentile per-packet one-way delay: 53.177 ms

Loss rate: 0.36%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-30 18:49:01

End at: 2018-01-30 18:49:31

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 53.142 ms

Loss rate: 0.06%

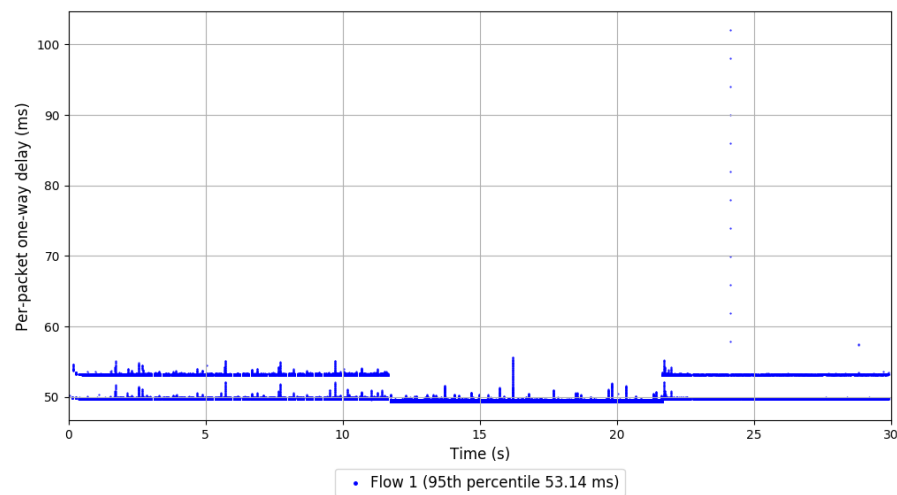
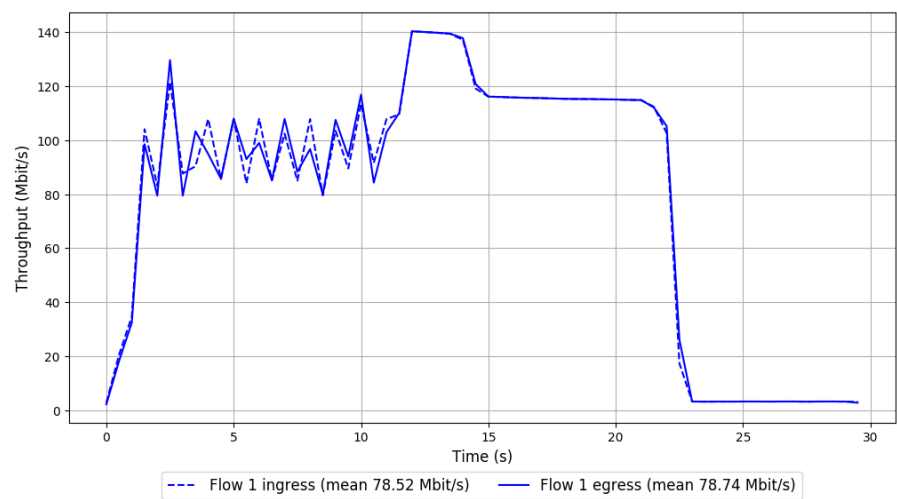
-- Flow 1:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 53.142 ms

Loss rate: 0.06%

Run 5: Report of Copa — Data Link

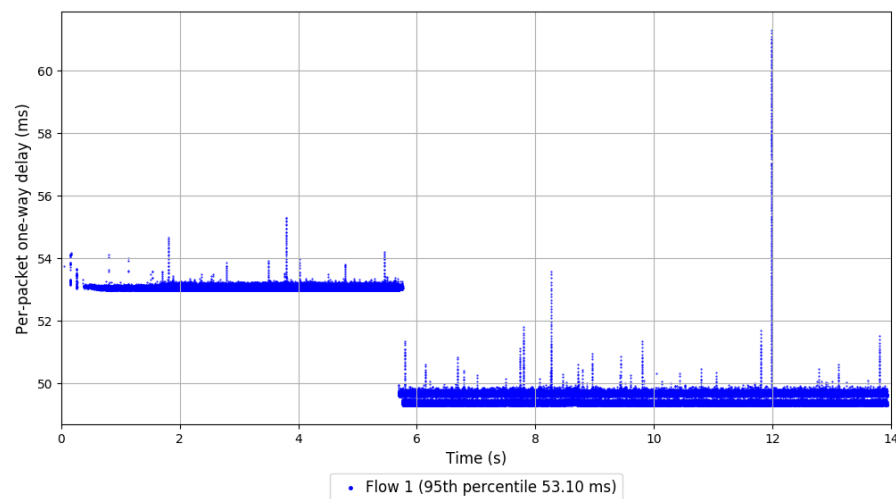
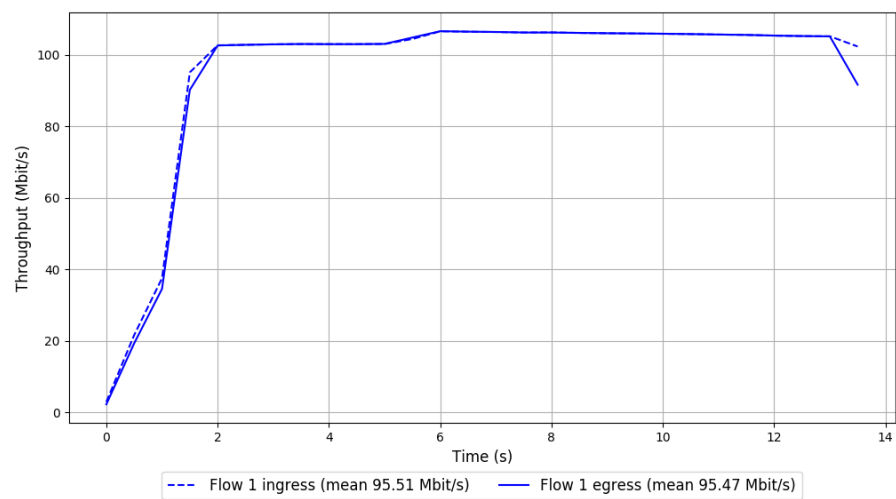


Run 6: Statistics of Copa

Start at: 2018-01-30 19:03:20

End at: 2018-01-30 19:03:50

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-30 19:17:19

End at: 2018-01-30 19:17:49

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.67 Mbit/s

95th percentile per-packet one-way delay: 49.741 ms

Loss rate: 0.34%

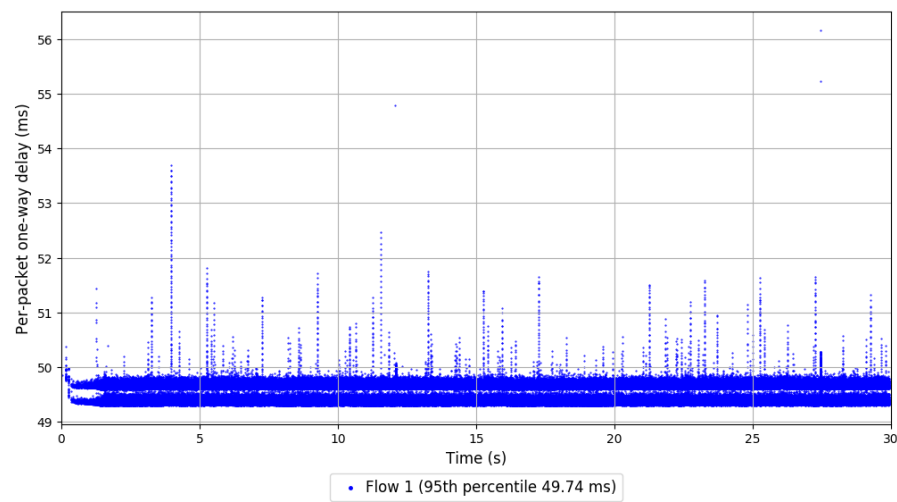
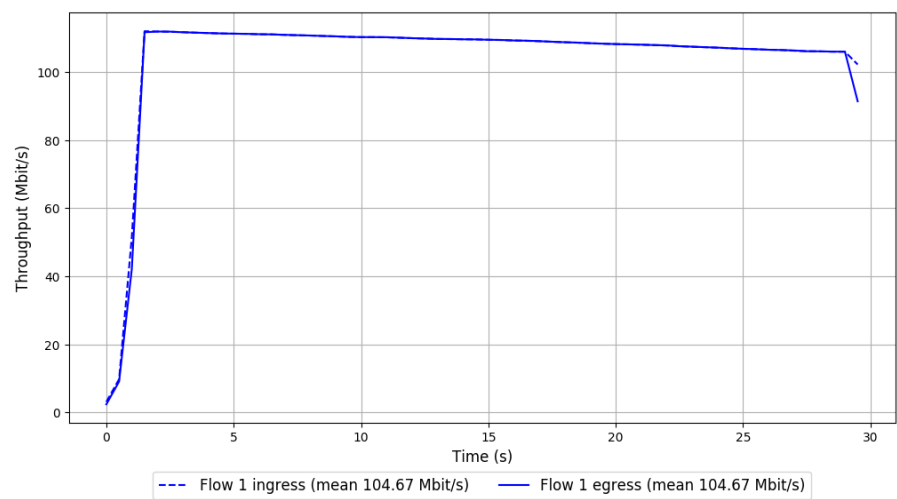
-- Flow 1:

Average throughput: 104.67 Mbit/s

95th percentile per-packet one-way delay: 49.741 ms

Loss rate: 0.34%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-30 19:31:29

End at: 2018-01-30 19:31:59

Run 8: Report of Copa — Data Link

Figure is missing

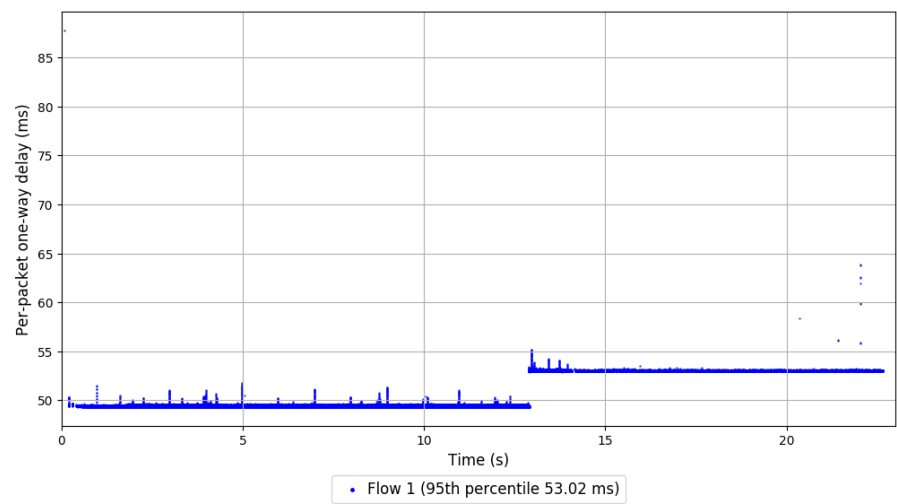
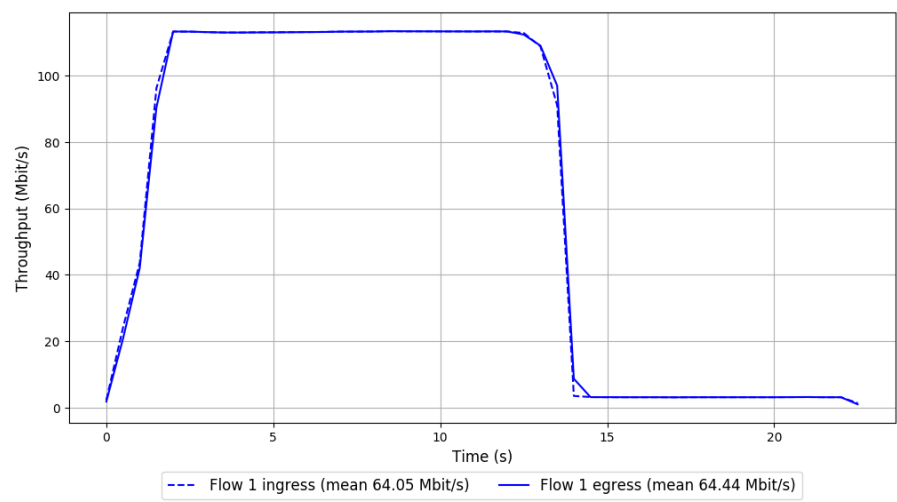
Figure is missing

Run 9: Statistics of Copa

Start at: 2018-01-30 19:45:22

End at: 2018-01-30 19:45:52

Run 9: Report of Copa — Data Link

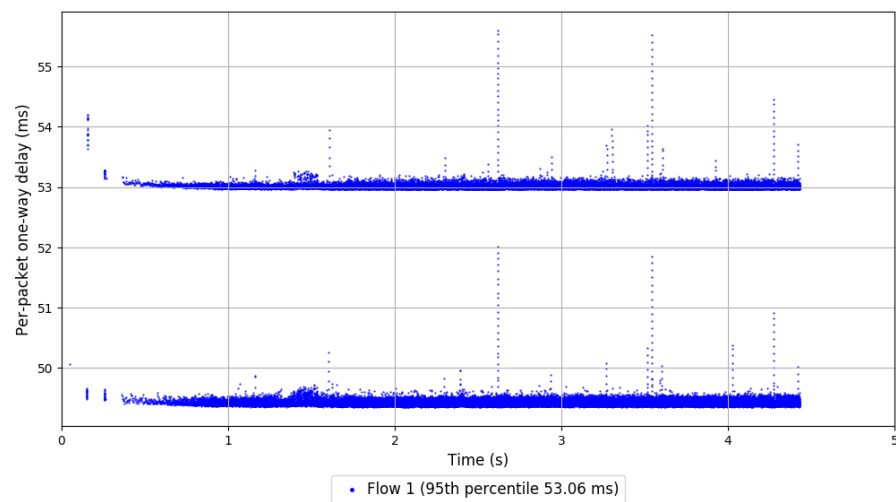
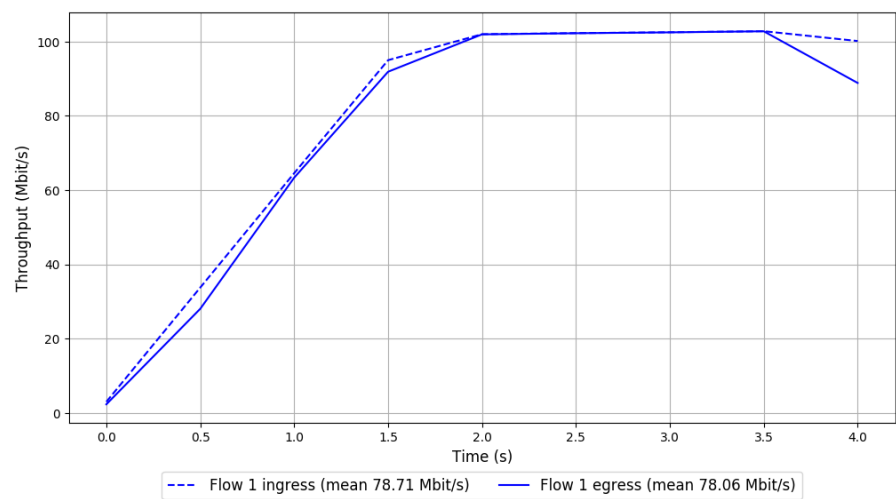


Run 10: Statistics of Copa

Start at: 2018-01-30 19:59:36

End at: 2018-01-30 20:00:06

Run 10: Report of Copa — Data Link

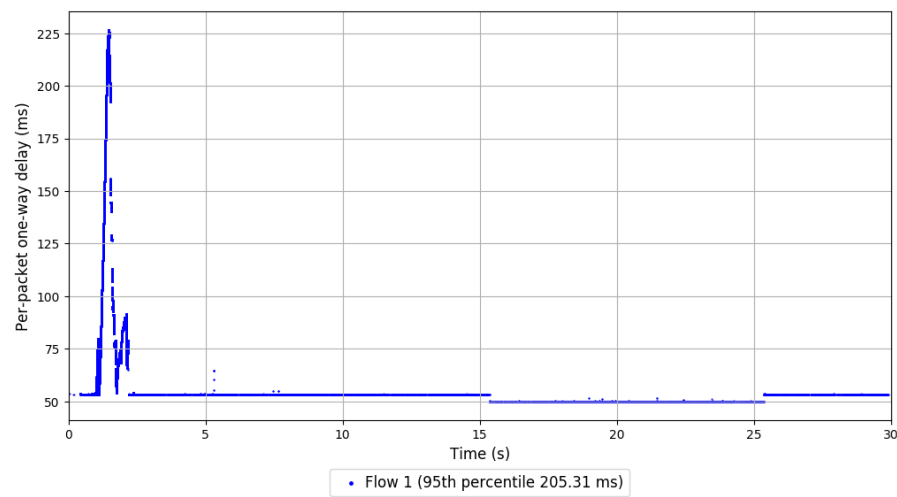
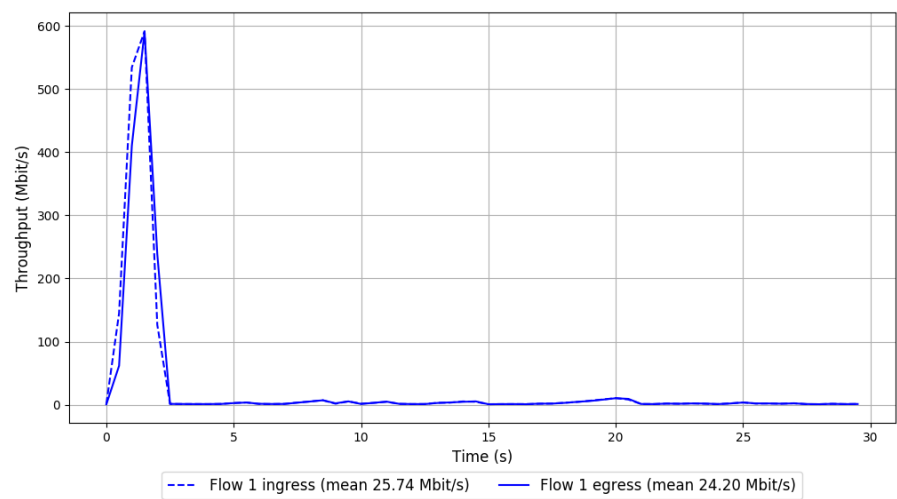


```
Run 1: Statistics of FillP

Start at: 2018-01-30 17:54:27
End at: 2018-01-30 17:54:57

# Below is generated by plot.py at 2018-01-30 23:05:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.20 Mbit/s
95th percentile per-packet one-way delay: 205.305 ms
Loss rate: 6.29%
-- Flow 1:
Average throughput: 24.20 Mbit/s
95th percentile per-packet one-way delay: 205.305 ms
Loss rate: 6.29%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-01-30 18:08:41

End at: 2018-01-30 18:09:11

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 164.442 ms

Loss rate: 6.20%

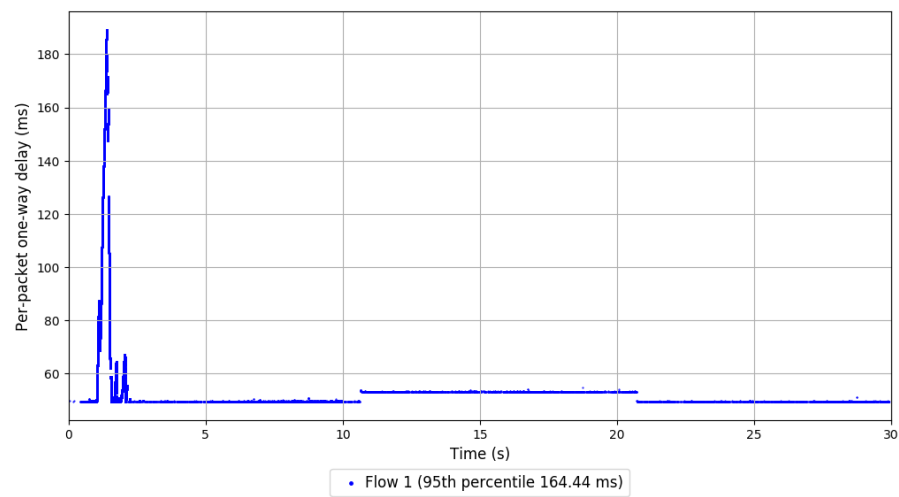
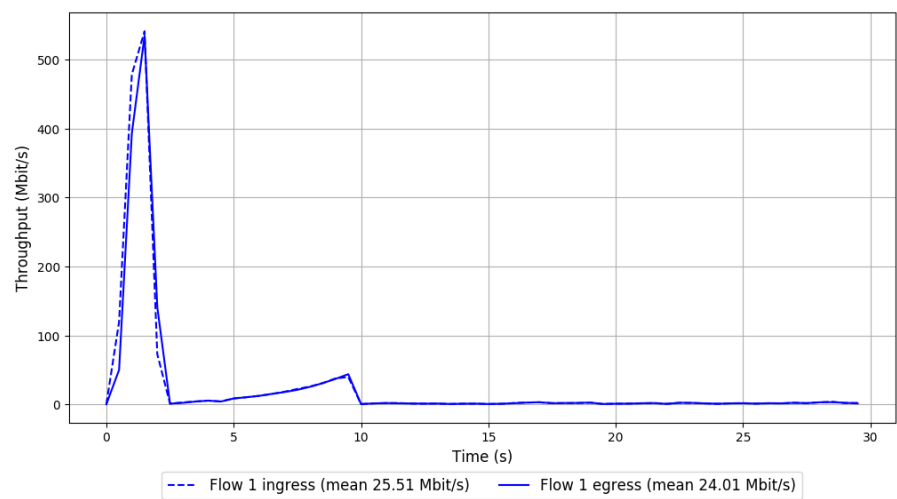
-- Flow 1:

Average throughput: 24.01 Mbit/s

95th percentile per-packet one-way delay: 164.442 ms

Loss rate: 6.20%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-30 18:22:57

End at: 2018-01-30 18:23:27

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.94 Mbit/s

95th percentile per-packet one-way delay: 182.807 ms

Loss rate: 3.11%

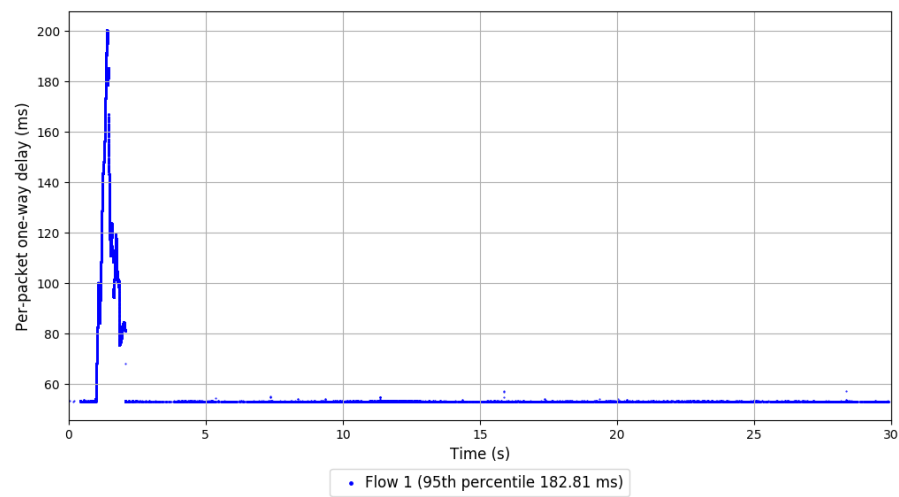
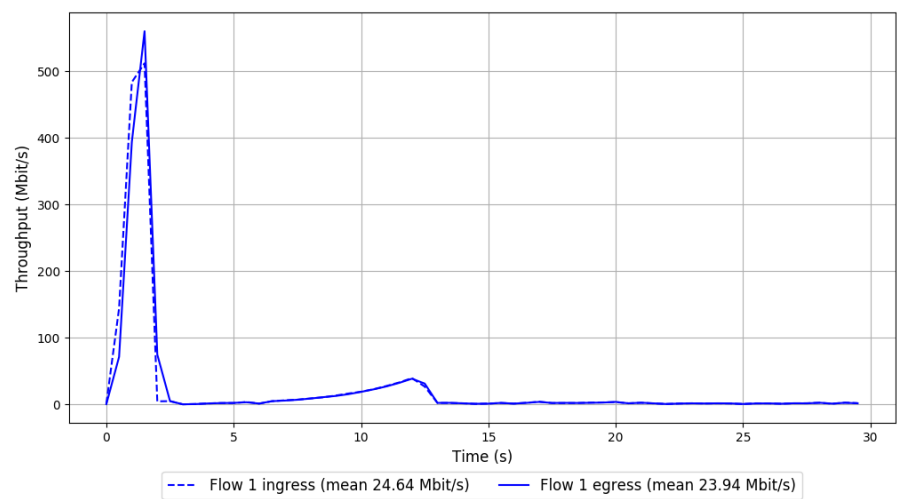
-- Flow 1:

Average throughput: 23.94 Mbit/s

95th percentile per-packet one-way delay: 182.807 ms

Loss rate: 3.11%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-30 18:36:54

End at: 2018-01-30 18:37:24

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.75 Mbit/s

95th percentile per-packet one-way delay: 254.169 ms

Loss rate: 6.84%

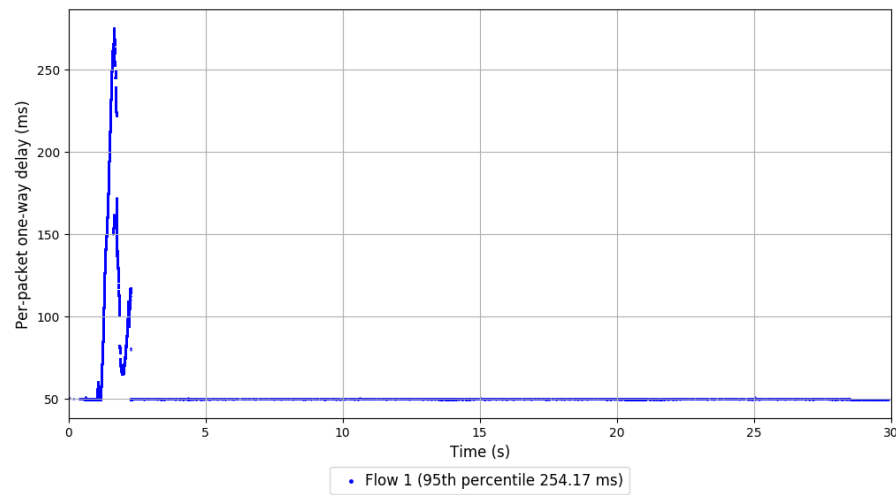
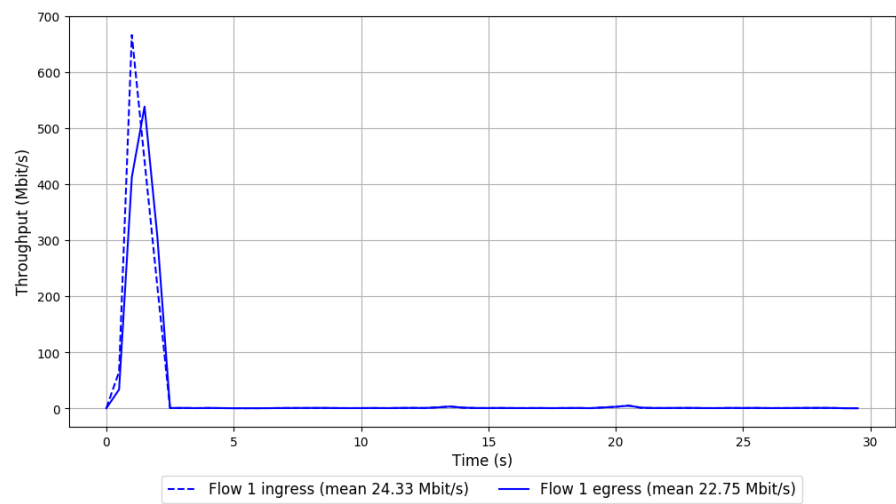
-- Flow 1:

Average throughput: 22.75 Mbit/s

95th percentile per-packet one-way delay: 254.169 ms

Loss rate: 6.84%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-30 18:50:58

End at: 2018-01-30 18:51:28

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.79 Mbit/s

95th percentile per-packet one-way delay: 176.796 ms

Loss rate: 3.89%

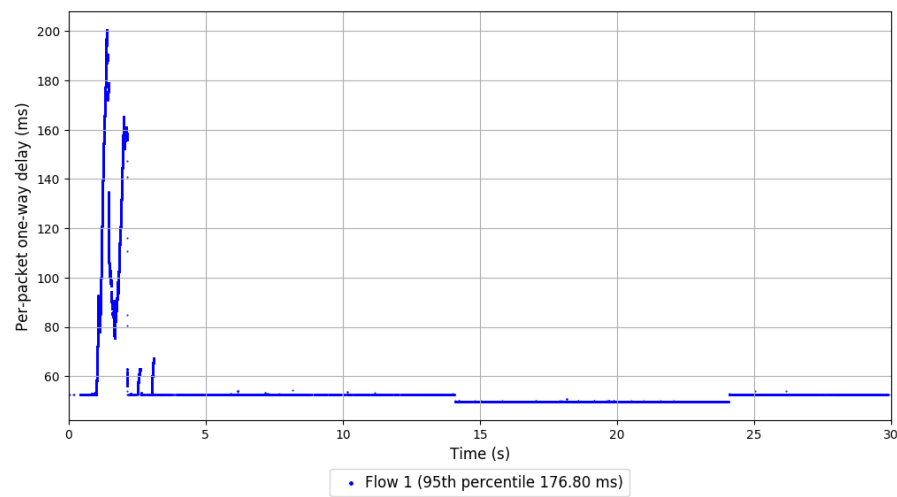
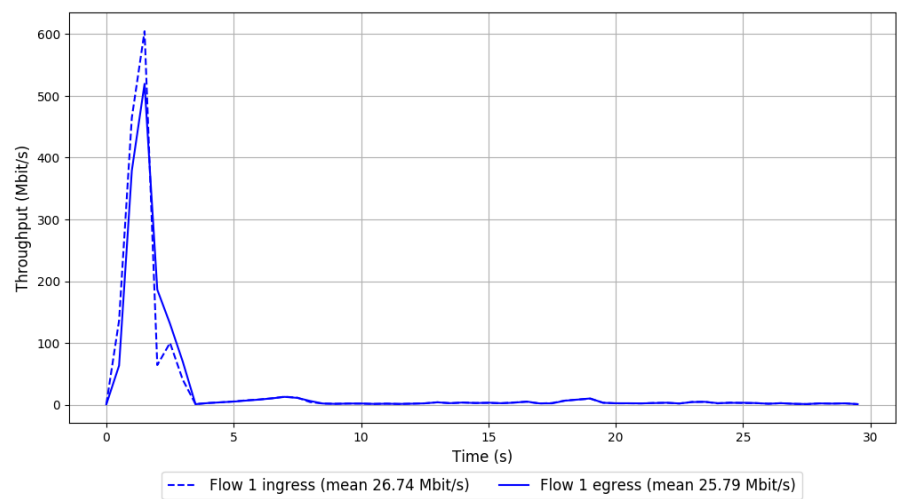
-- Flow 1:

Average throughput: 25.79 Mbit/s

95th percentile per-packet one-way delay: 176.796 ms

Loss rate: 3.89%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-30 19:05:15

End at: 2018-01-30 19:05:46

Run 6: Report of FillP — Data Link

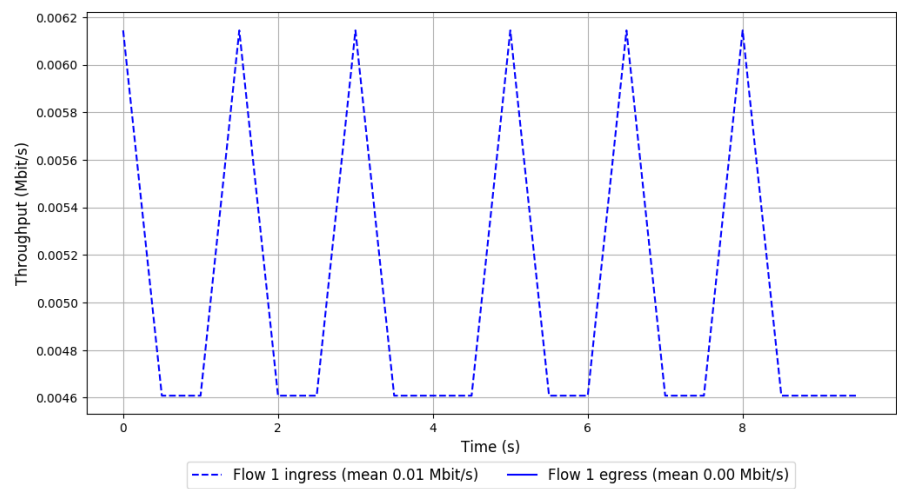


Figure is missing

Run 7: Statistics of FillP

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

End at: 2018-01-30 19:19:49

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 258.603 ms

Loss rate: 9.02%

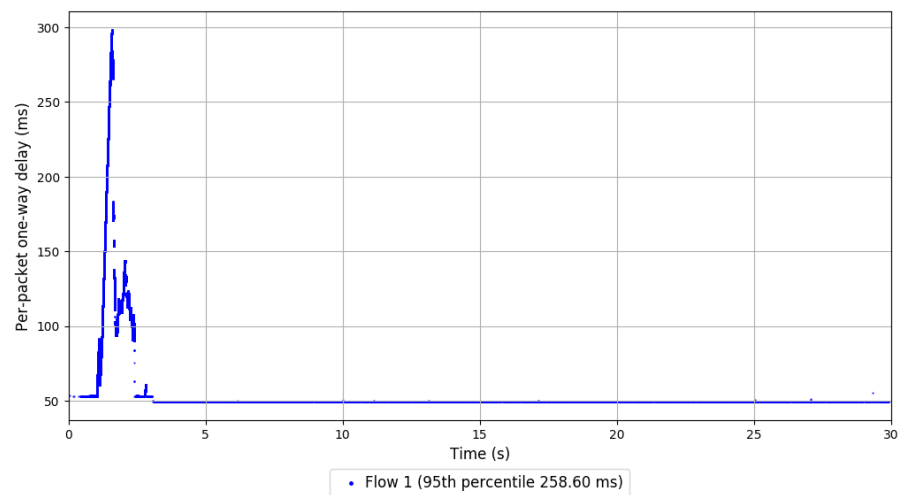
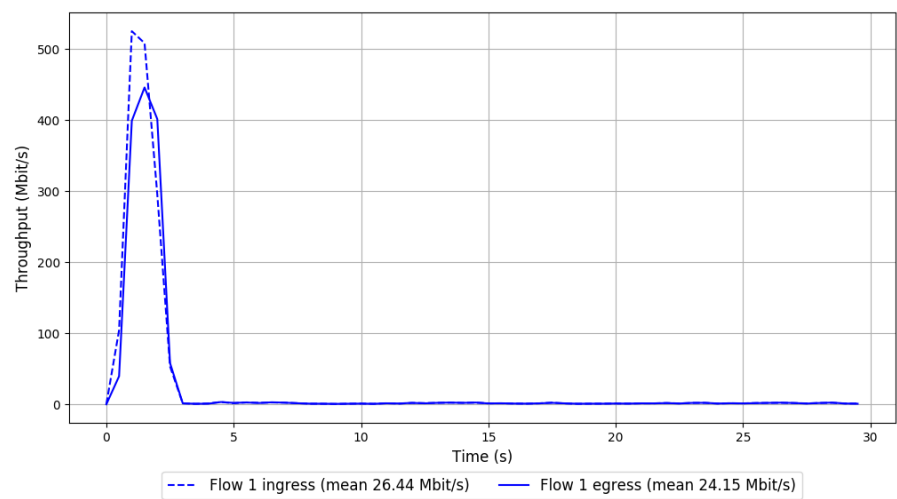
-- Flow 1:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 258.603 ms

Loss rate: 9.02%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-30 19:33:22

End at: 2018-01-30 19:33:52

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.03 Mbit/s

95th percentile per-packet one-way delay: 243.023 ms

Loss rate: 4.70%

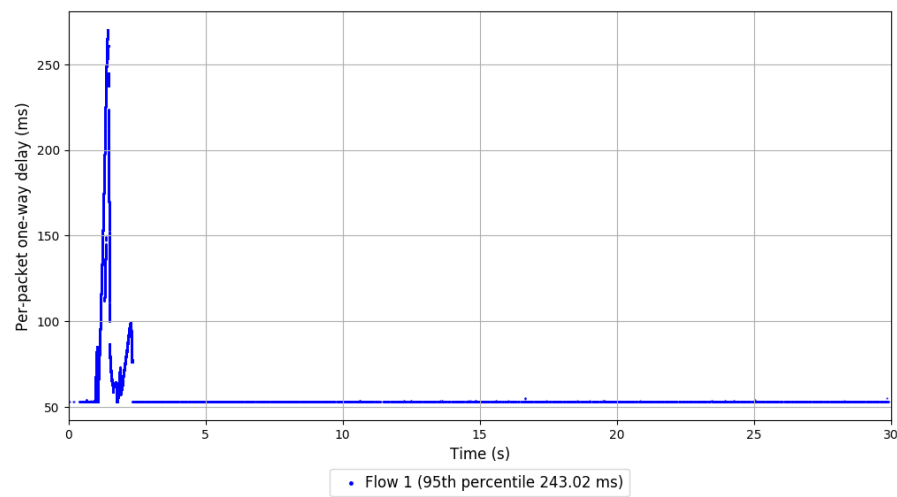
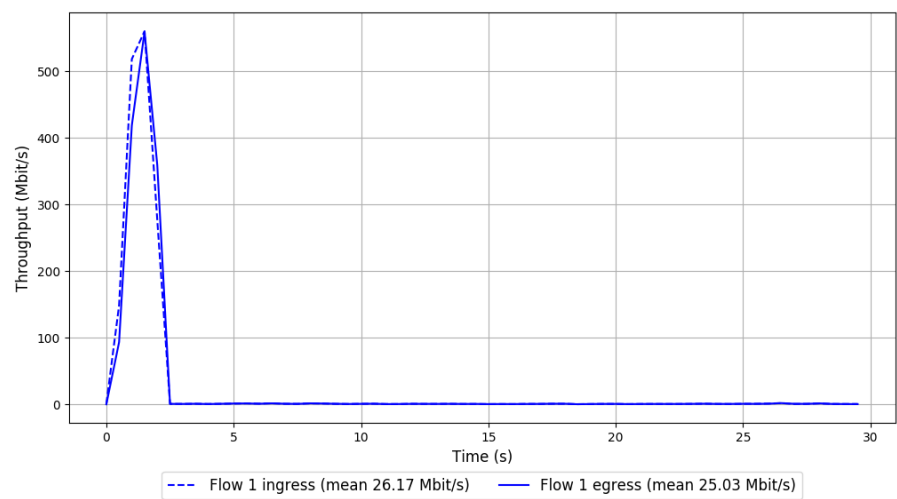
-- Flow 1:

Average throughput: 25.03 Mbit/s

95th percentile per-packet one-way delay: 243.023 ms

Loss rate: 4.70%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-30 19:47:17

End at: 2018-01-30 19:47:47

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 225.894 ms

Loss rate: 4.90%

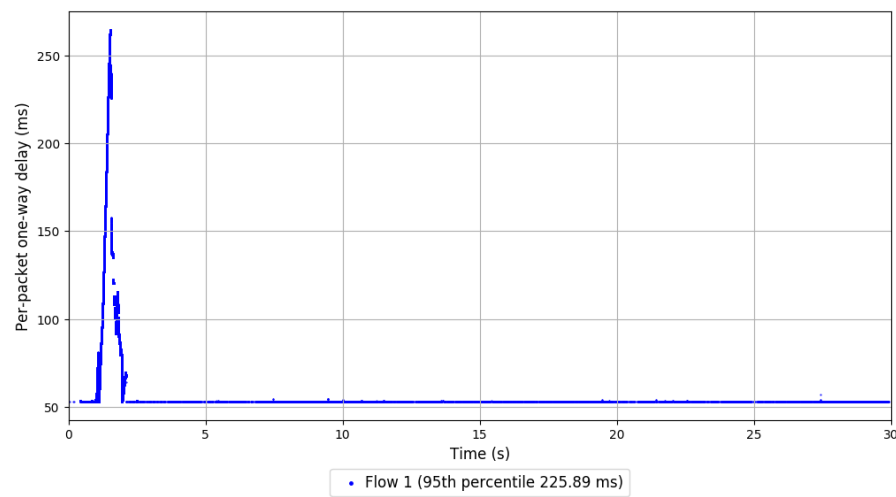
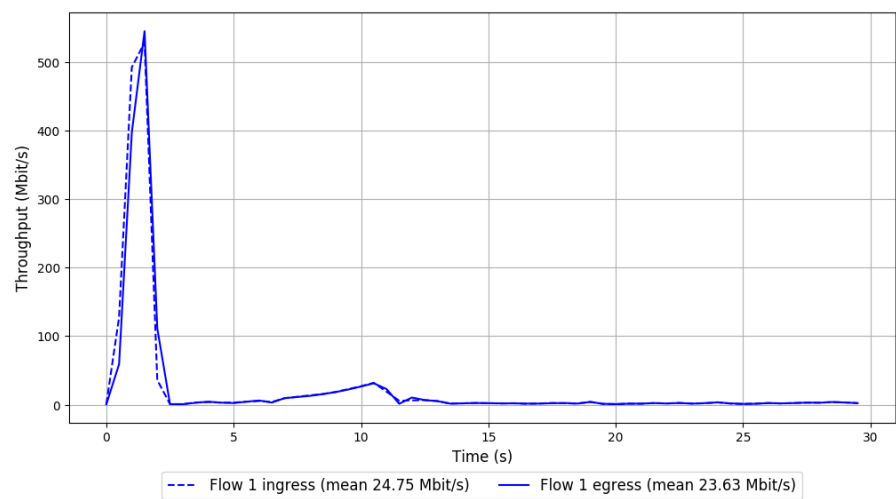
-- Flow 1:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 225.894 ms

Loss rate: 4.90%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-30 20:01:28

End at: 2018-01-30 20:01:58

Below is generated by plot.py at 2018-01-30 23:05:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.87 Mbit/s

95th percentile per-packet one-way delay: 189.492 ms

Loss rate: 12.10%

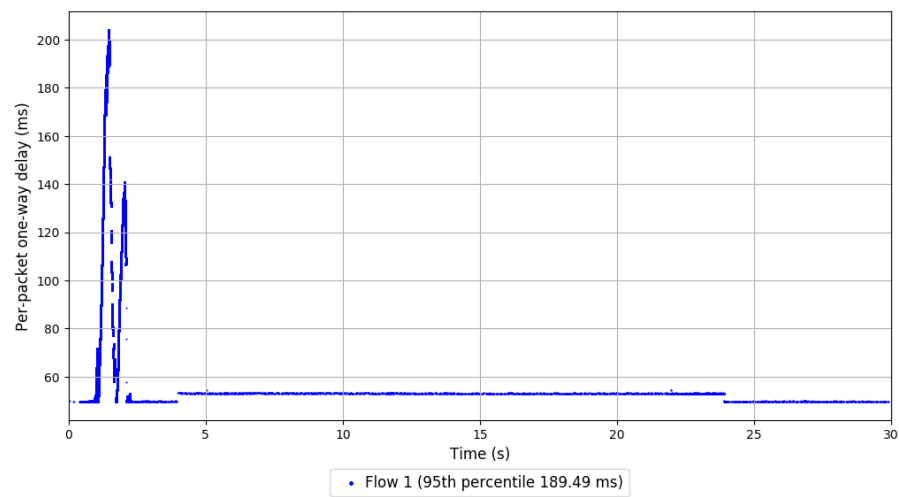
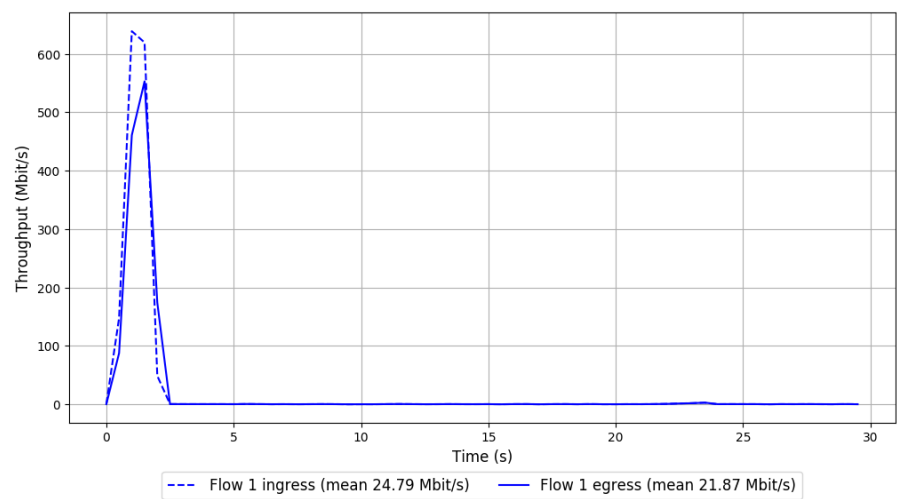
-- Flow 1:

Average throughput: 21.87 Mbit/s

95th percentile per-packet one-way delay: 189.492 ms

Loss rate: 12.10%

Run 10: Report of FillP — Data Link

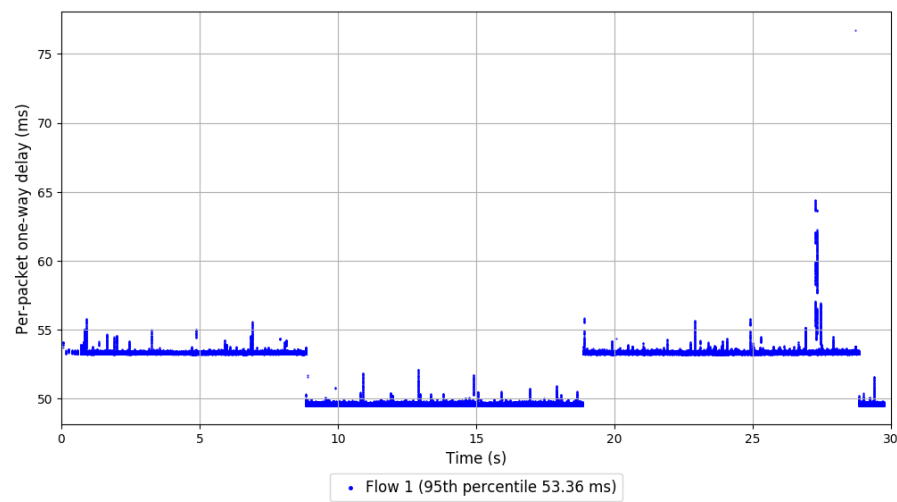
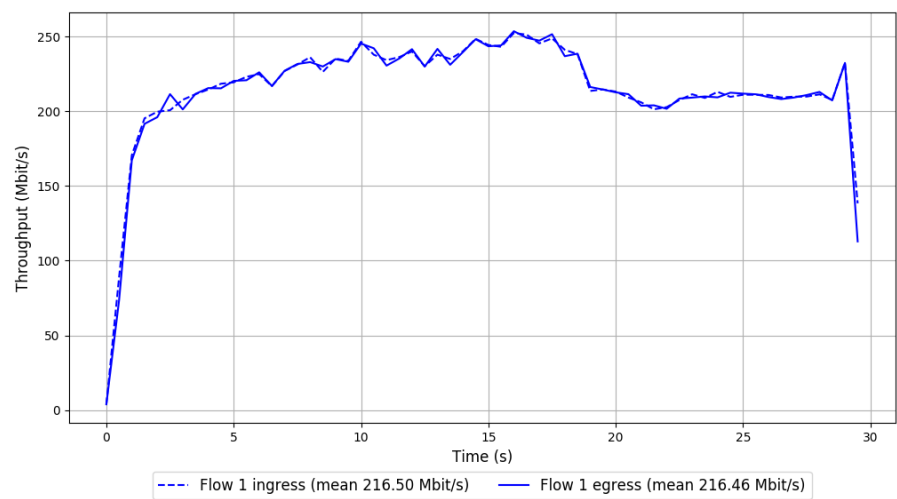


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-30 17:55:43
End at: 2018-01-30 17:56:13

# Below is generated by plot.py at 2018-01-30 23:08:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.46 Mbit/s
95th percentile per-packet one-way delay: 53.363 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 216.46 Mbit/s
95th percentile per-packet one-way delay: 53.363 ms
Loss rate: 0.37%
```

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

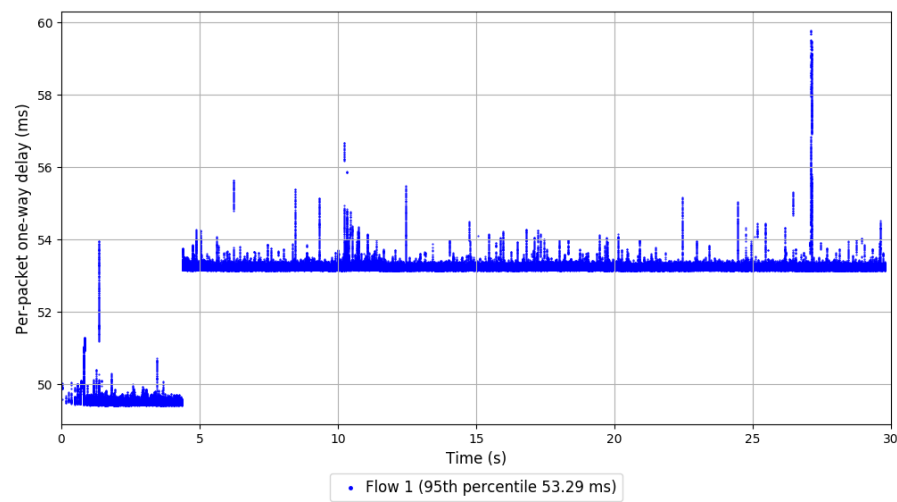
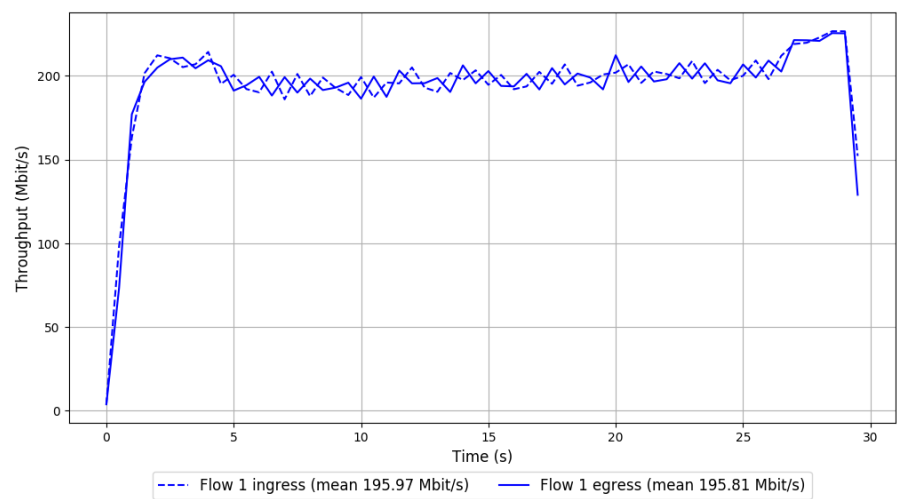


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-30 18:09:58
End at: 2018-01-30 18:10:28

# Below is generated by plot.py at 2018-01-30 23:08:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.81 Mbit/s
95th percentile per-packet one-way delay: 53.291 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 195.81 Mbit/s
95th percentile per-packet one-way delay: 53.291 ms
Loss rate: 0.42%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-01-30 18:24:13

End at: 2018-01-30 18:24:43

Below is generated by plot.py at 2018-01-30 23:08:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.31 Mbit/s

95th percentile per-packet one-way delay: 53.211 ms

Loss rate: 0.39%

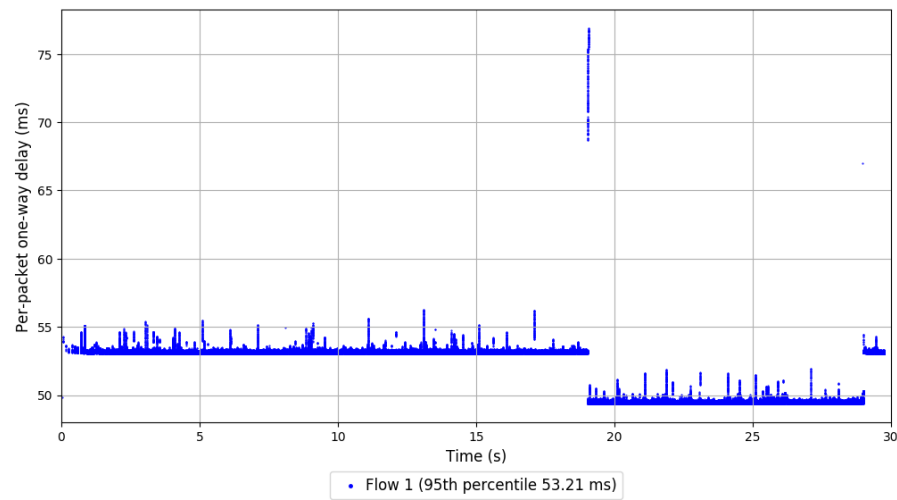
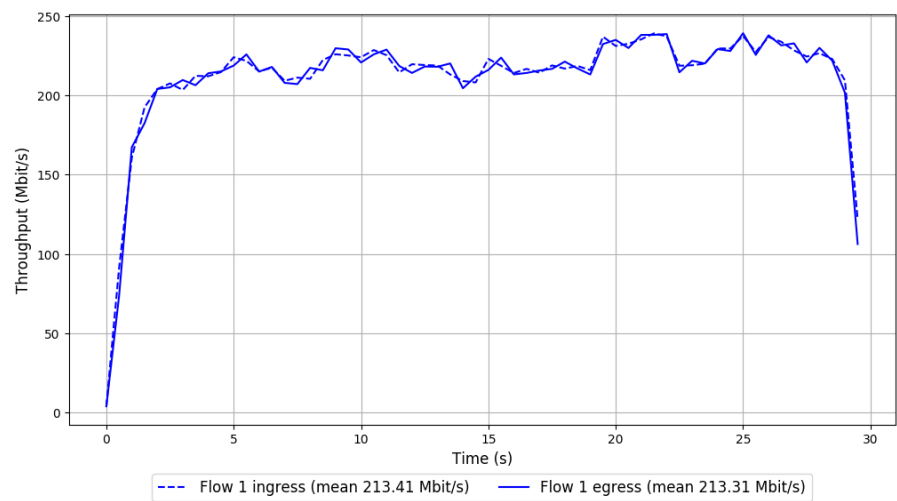
-- Flow 1:

Average throughput: 213.31 Mbit/s

95th percentile per-packet one-way delay: 53.211 ms

Loss rate: 0.39%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-30 18:38:10

End at: 2018-01-30 18:38:40

Below is generated by plot.py at 2018-01-30 23:09:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.07 Mbit/s

95th percentile per-packet one-way delay: 53.164 ms

Loss rate: 0.37%

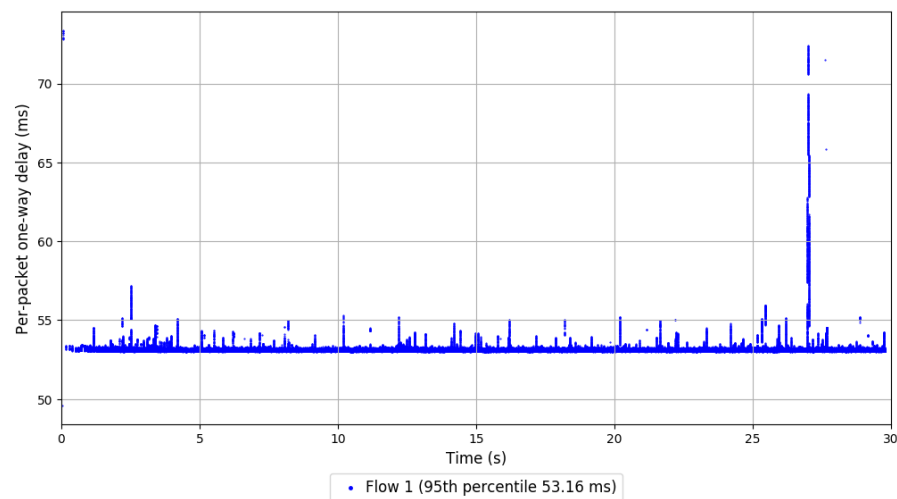
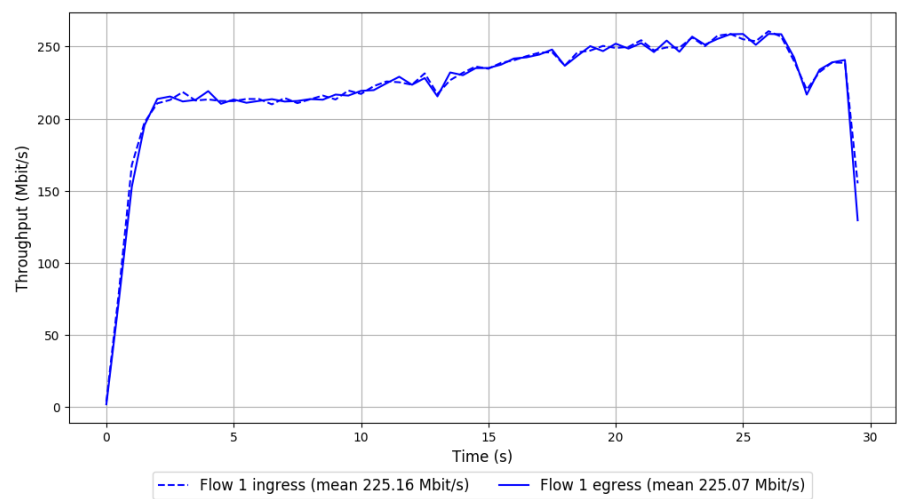
-- Flow 1:

Average throughput: 225.07 Mbit/s

95th percentile per-packet one-way delay: 53.164 ms

Loss rate: 0.37%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-30 18:52:14

End at: 2018-01-30 18:52:44

Below is generated by plot.py at 2018-01-30 23:09:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.68 Mbit/s

95th percentile per-packet one-way delay: 53.135 ms

Loss rate: 0.38%

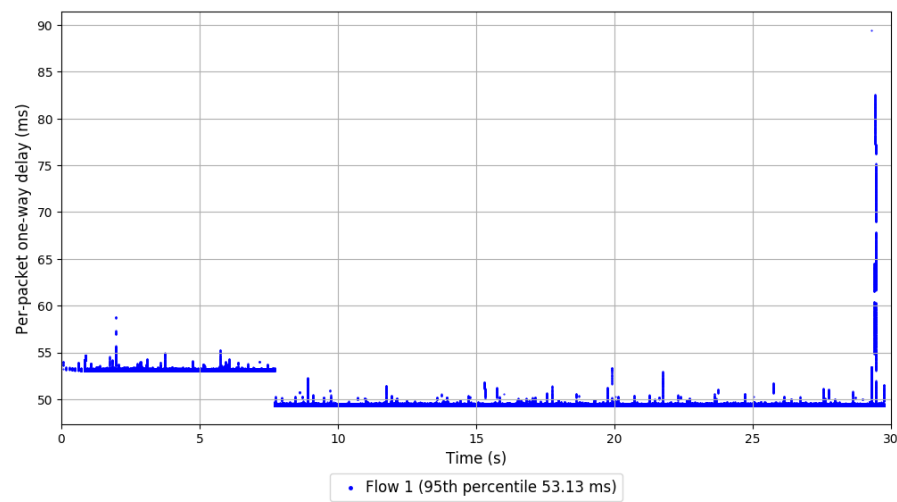
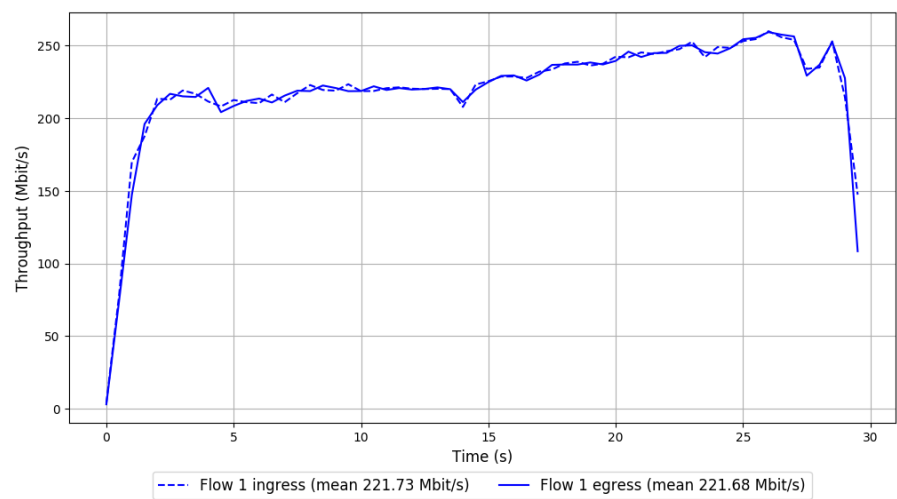
-- Flow 1:

Average throughput: 221.68 Mbit/s

95th percentile per-packet one-way delay: 53.135 ms

Loss rate: 0.38%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-01-30 19:06:29

End at: 2018-01-30 19:06:59

Below is generated by plot.py at 2018-01-30 23:09:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.88 Mbit/s

95th percentile per-packet one-way delay: 53.116 ms

Loss rate: 0.37%

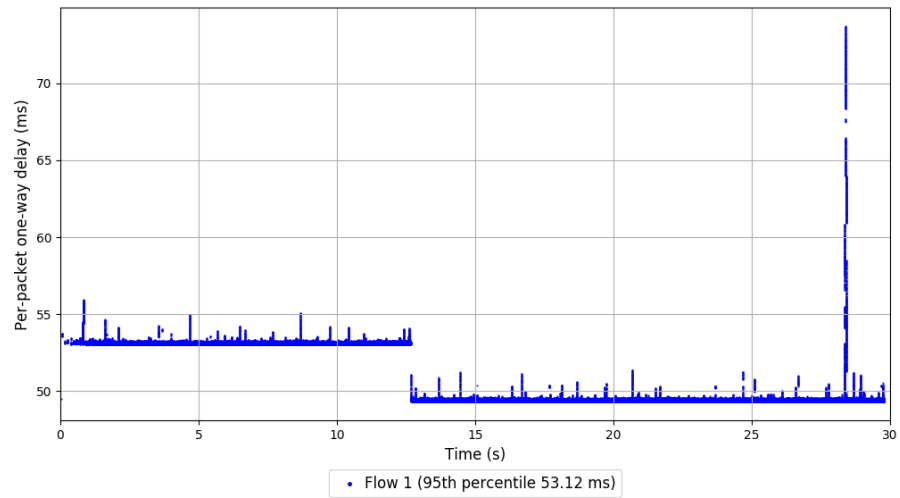
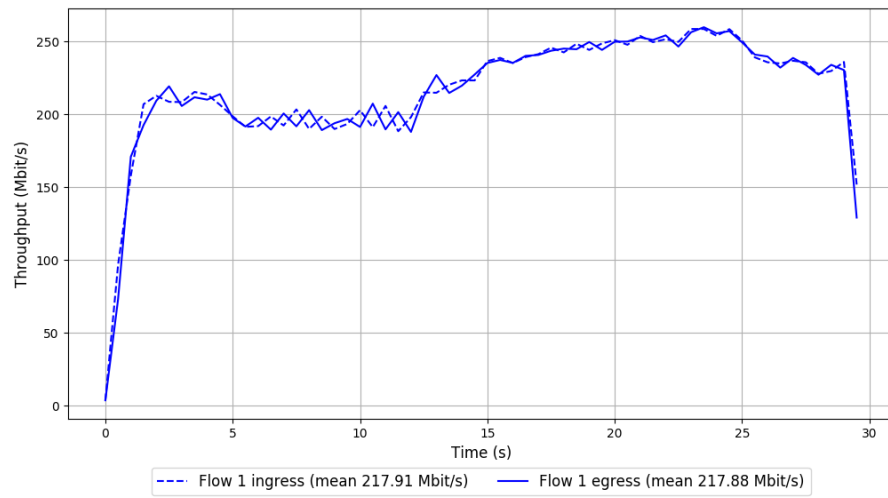
-- Flow 1:

Average throughput: 217.88 Mbit/s

95th percentile per-packet one-way delay: 53.116 ms

Loss rate: 0.37%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-30 19:20:36

End at: 2018-01-30 19:21:06

Below is generated by plot.py at 2018-01-30 23:09:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.51 Mbit/s

95th percentile per-packet one-way delay: 49.453 ms

Loss rate: 0.32%

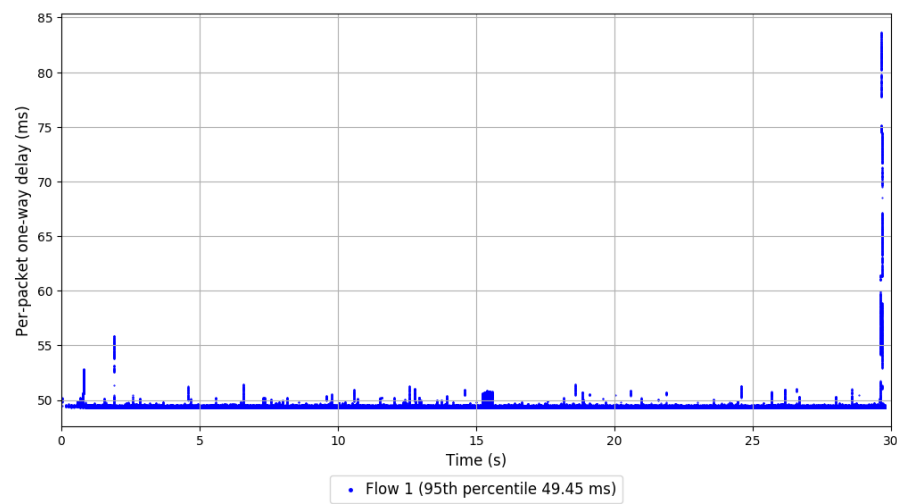
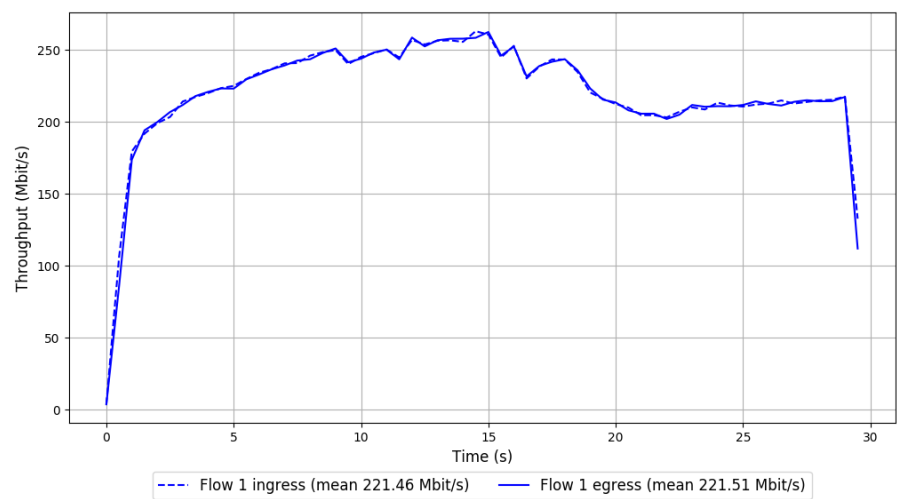
-- Flow 1:

Average throughput: 221.51 Mbit/s

95th percentile per-packet one-way delay: 49.453 ms

Loss rate: 0.32%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-30 19:34:38

End at: 2018-01-30 19:35:08

Below is generated by plot.py at 2018-01-30 23:09:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.93 Mbit/s

95th percentile per-packet one-way delay: 53.185 ms

Loss rate: 0.34%

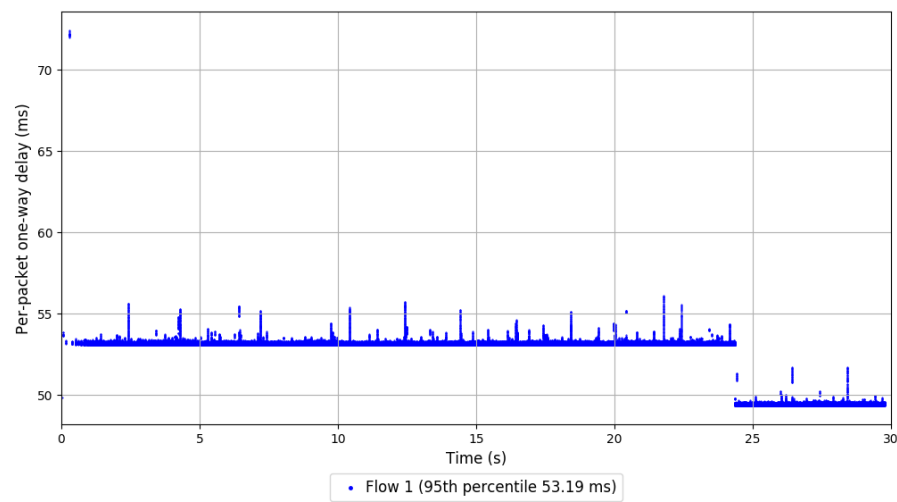
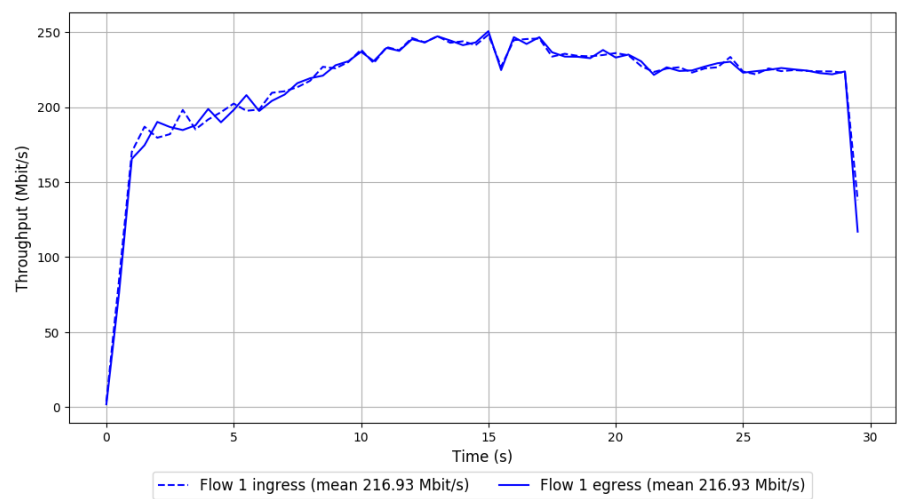
-- Flow 1:

Average throughput: 216.93 Mbit/s

95th percentile per-packet one-way delay: 53.185 ms

Loss rate: 0.34%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-30 19:48:33

End at: 2018-01-30 19:49:03

Below is generated by plot.py at 2018-01-30 23:11:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.89 Mbit/s

95th percentile per-packet one-way delay: 53.088 ms

Loss rate: 0.33%

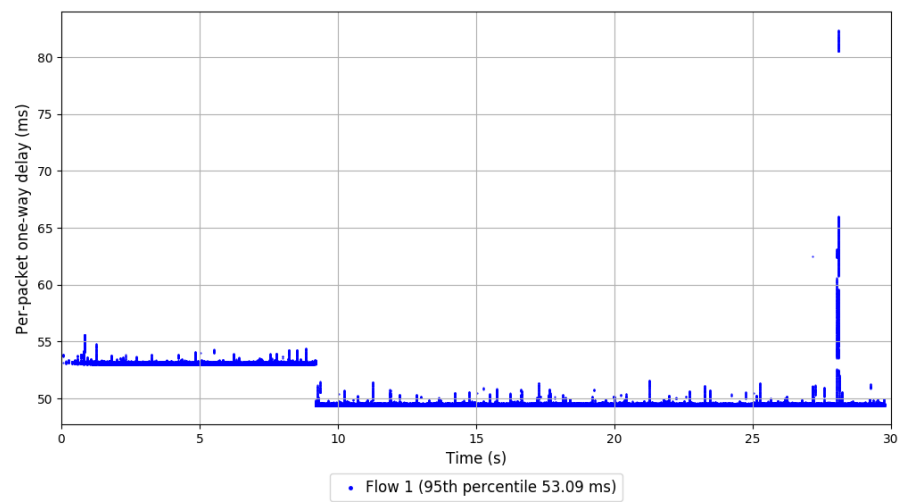
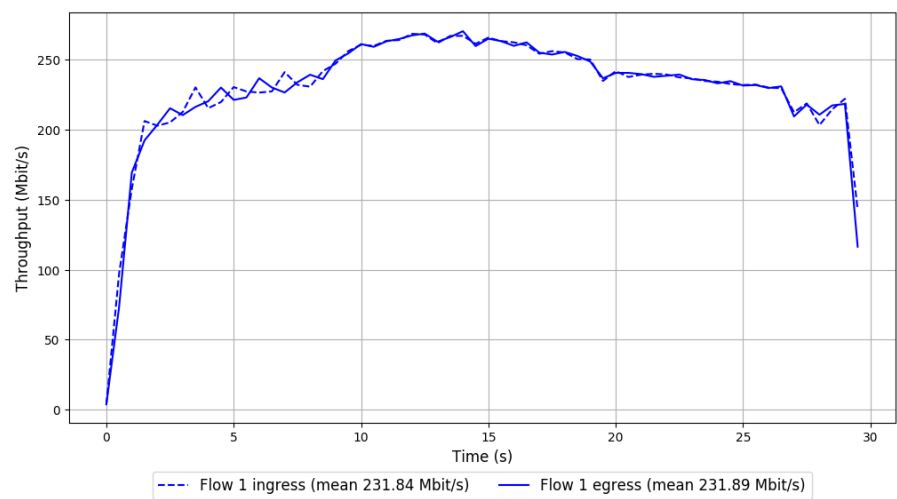
-- Flow 1:

Average throughput: 231.89 Mbit/s

95th percentile per-packet one-way delay: 53.088 ms

Loss rate: 0.33%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-30 20:02:44

End at: 2018-01-30 20:03:14

Below is generated by plot.py at 2018-01-30 23:11:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.96 Mbit/s

95th percentile per-packet one-way delay: 53.070 ms

Loss rate: 0.41%

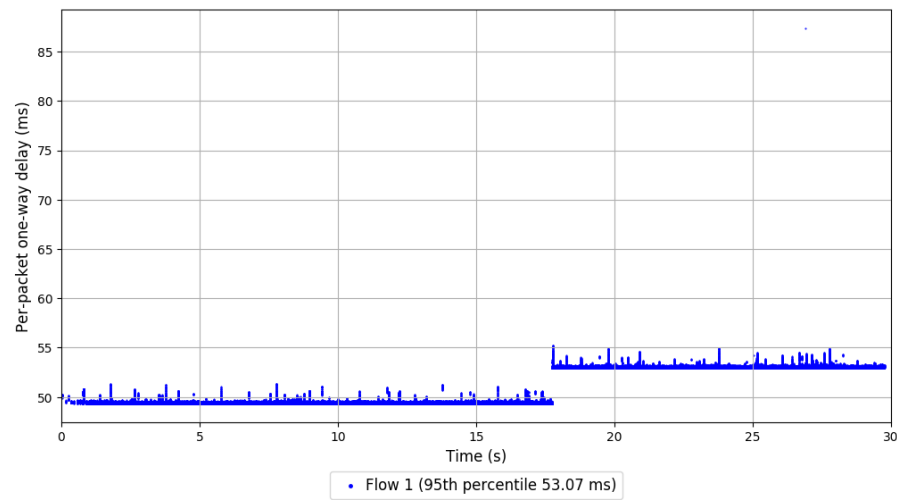
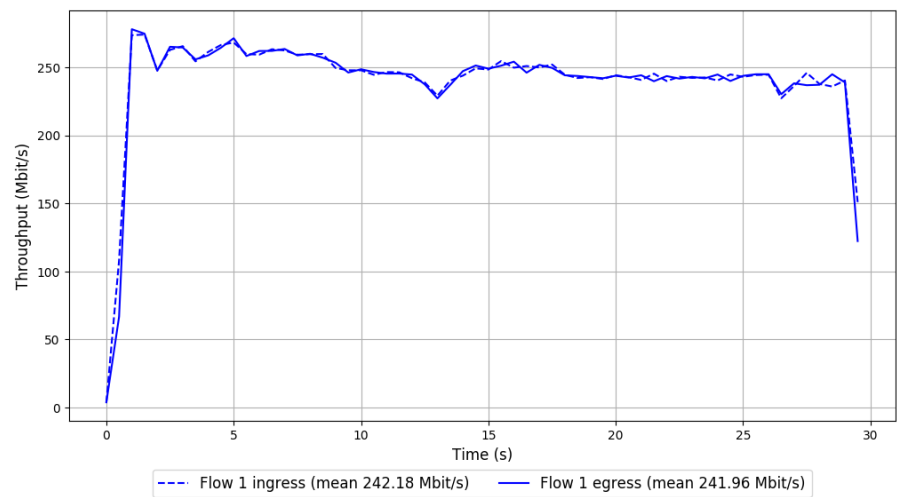
-- Flow 1:

Average throughput: 241.96 Mbit/s

95th percentile per-packet one-way delay: 53.070 ms

Loss rate: 0.41%

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

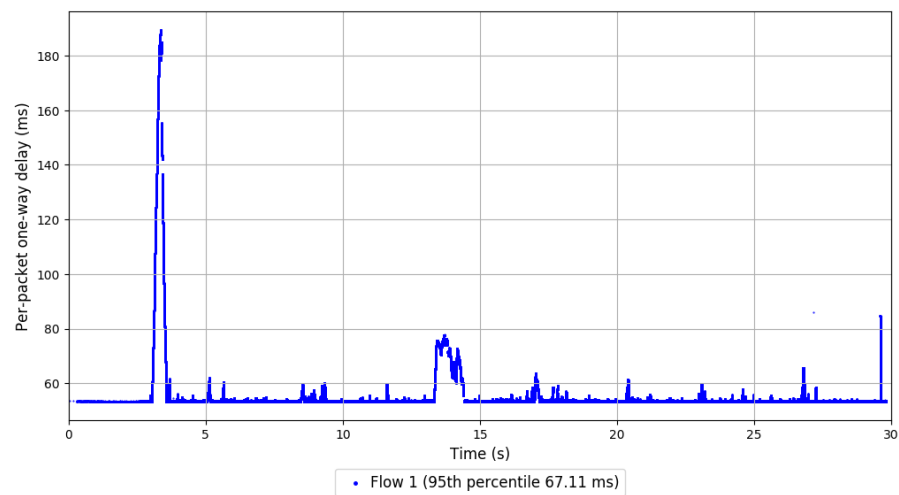
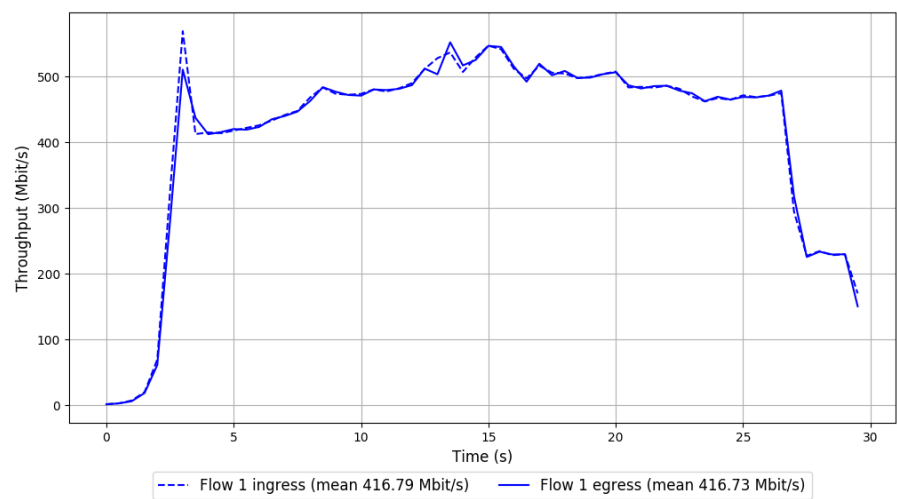


```
Run 1: Statistics of Vivace-latency

Start at: 2018-01-30 17:42:35
End at: 2018-01-30 17:43:05

# Below is generated by plot.py at 2018-01-30 23:15:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 416.73 Mbit/s
95th percentile per-packet one-way delay: 67.107 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 416.73 Mbit/s
95th percentile per-packet one-way delay: 67.107 ms
Loss rate: 0.37%
```


Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-30 17:56:34

End at: 2018-01-30 17:57:04

Below is generated by plot.py at 2018-01-30 23:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 402.60 Mbit/s

95th percentile per-packet one-way delay: 55.347 ms

Loss rate: 0.16%

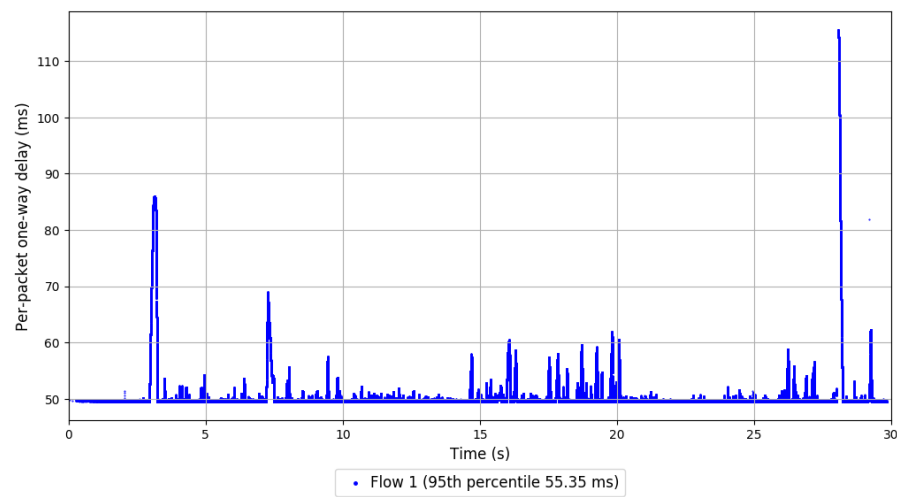
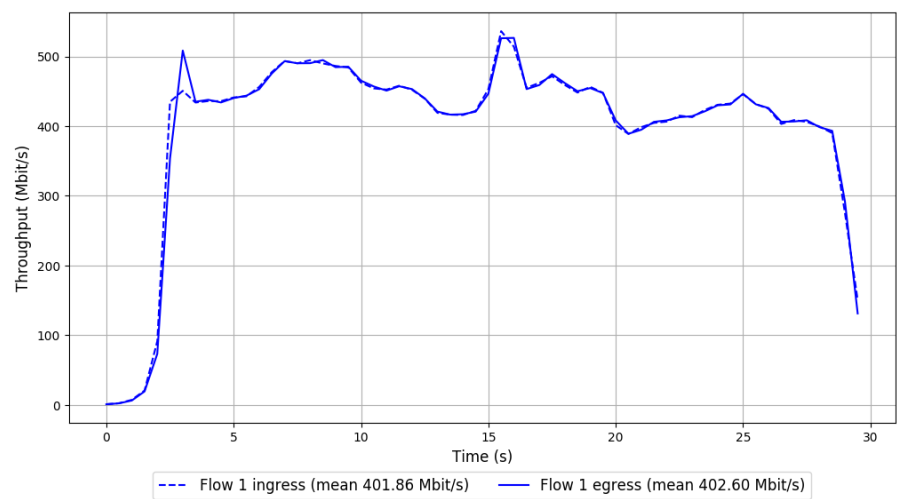
-- Flow 1:

Average throughput: 402.60 Mbit/s

95th percentile per-packet one-way delay: 55.347 ms

Loss rate: 0.16%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-30 18:10:47

End at: 2018-01-30 18:11:17

Below is generated by plot.py at 2018-01-30 23:15:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.03 Mbit/s

95th percentile per-packet one-way delay: 50.389 ms

Loss rate: 0.39%

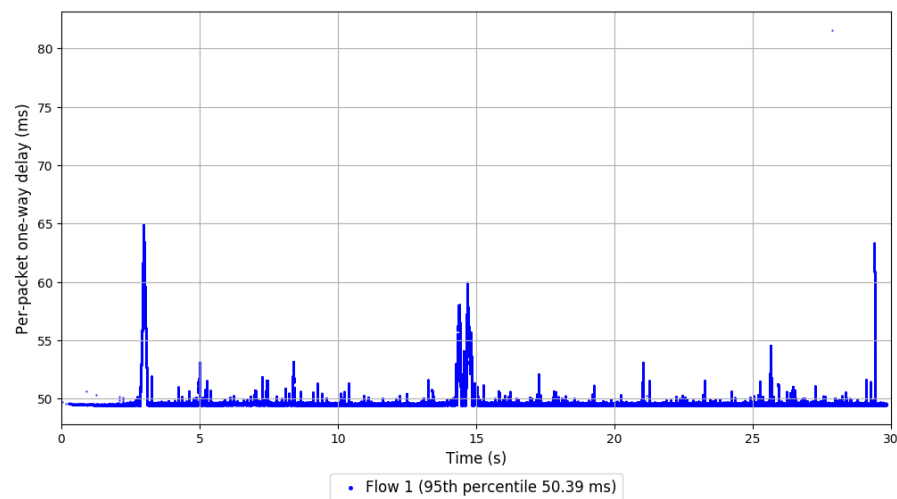
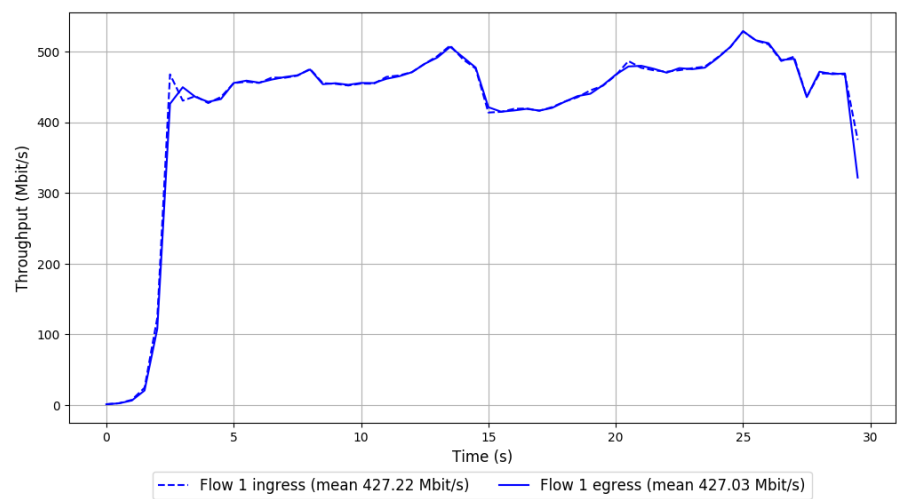
-- Flow 1:

Average throughput: 427.03 Mbit/s

95th percentile per-packet one-way delay: 50.389 ms

Loss rate: 0.39%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-30 18:25:04

End at: 2018-01-30 18:25:34

Below is generated by plot.py at 2018-01-30 23:15:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.62 Mbit/s

95th percentile per-packet one-way delay: 53.238 ms

Loss rate: 0.43%

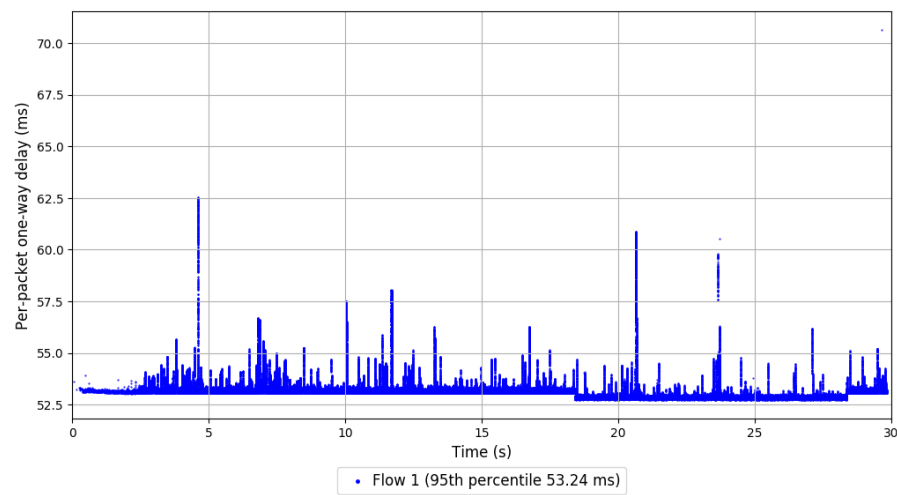
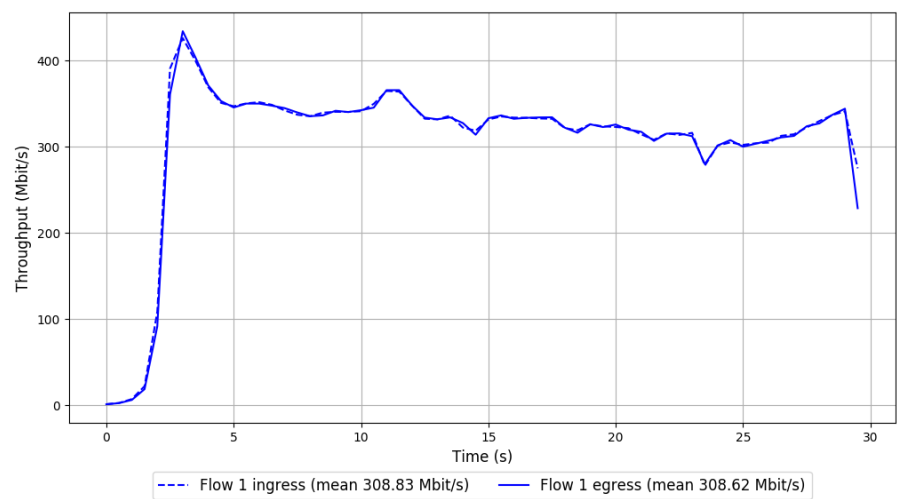
-- Flow 1:

Average throughput: 308.62 Mbit/s

95th percentile per-packet one-way delay: 53.238 ms

Loss rate: 0.43%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-01-30 18:39:01

End at: 2018-01-30 18:39:31

Below is generated by plot.py at 2018-01-30 23:15:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 413.68 Mbit/s

95th percentile per-packet one-way delay: 55.663 ms

Loss rate: 0.19%

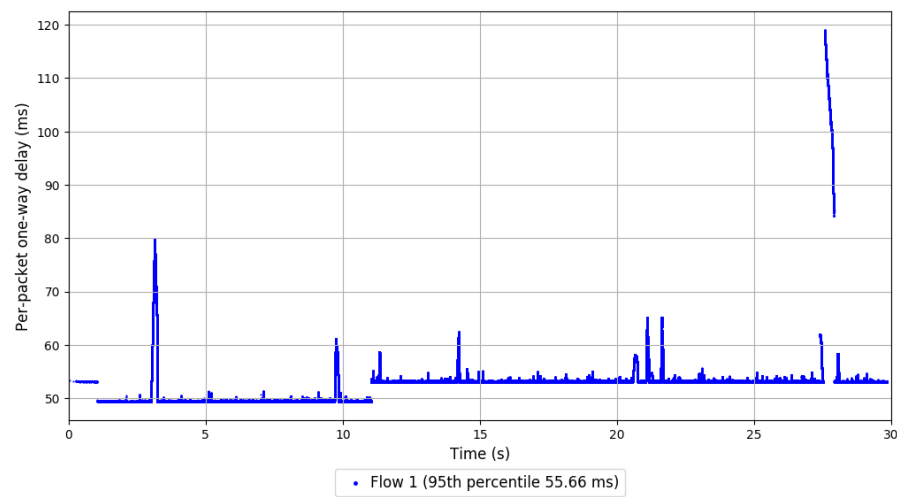
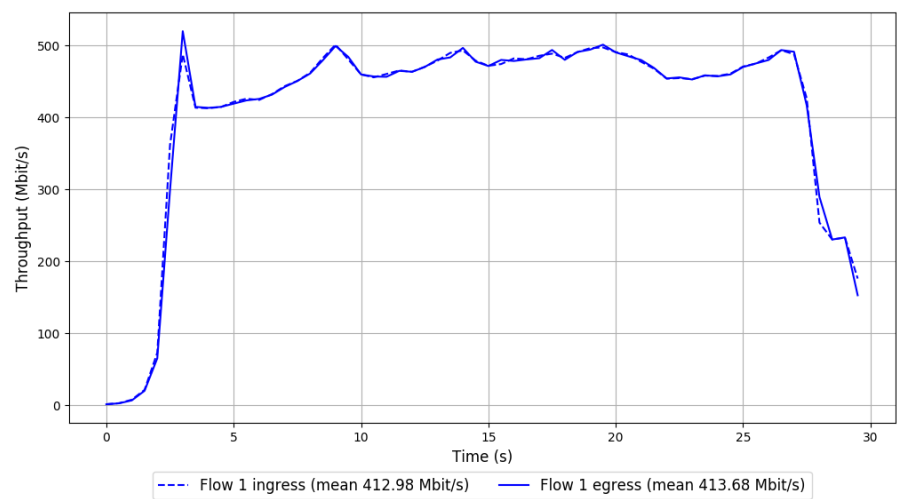
-- Flow 1:

Average throughput: 413.68 Mbit/s

95th percentile per-packet one-way delay: 55.663 ms

Loss rate: 0.19%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-30 18:53:05

End at: 2018-01-30 18:53:35

Below is generated by plot.py at 2018-01-30 23:15:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.64 Mbit/s

95th percentile per-packet one-way delay: 50.953 ms

Loss rate: 0.17%

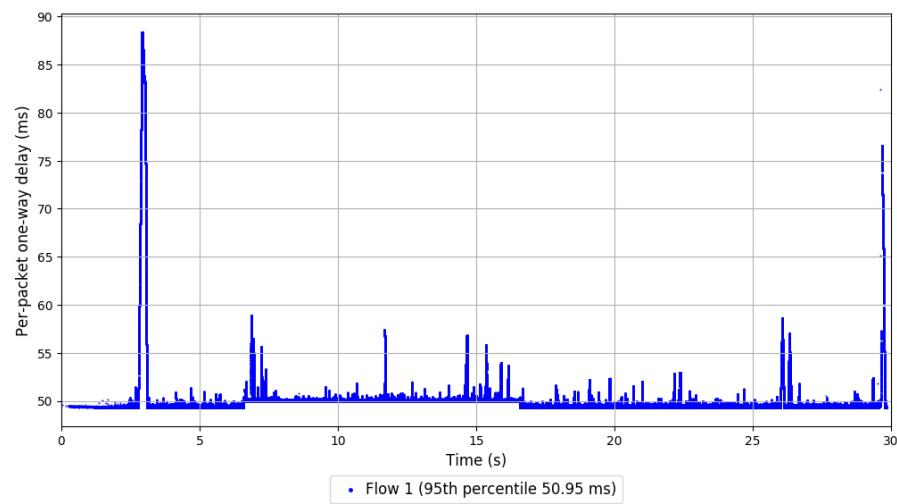
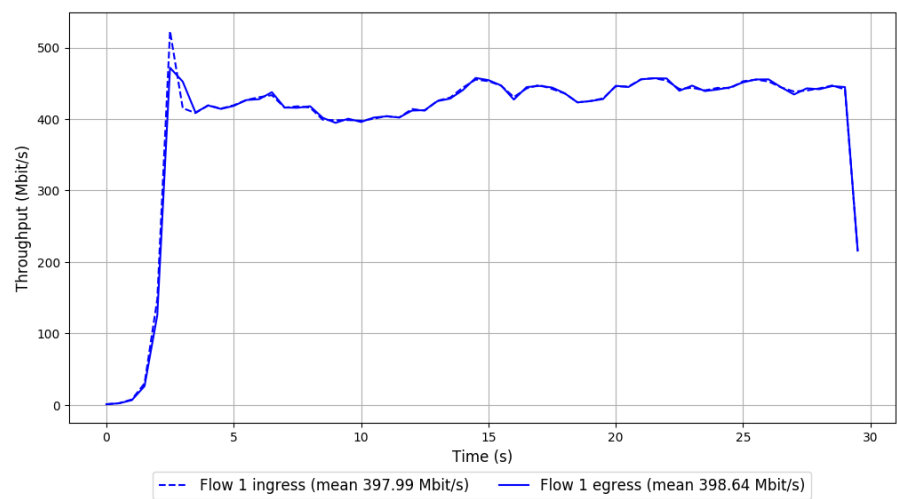
-- Flow 1:

Average throughput: 398.64 Mbit/s

95th percentile per-packet one-way delay: 50.953 ms

Loss rate: 0.17%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-30 19:07:20

End at: 2018-01-30 19:07:50

Below is generated by plot.py at 2018-01-30 23:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.00 Mbit/s

95th percentile per-packet one-way delay: 53.443 ms

Loss rate: 0.38%

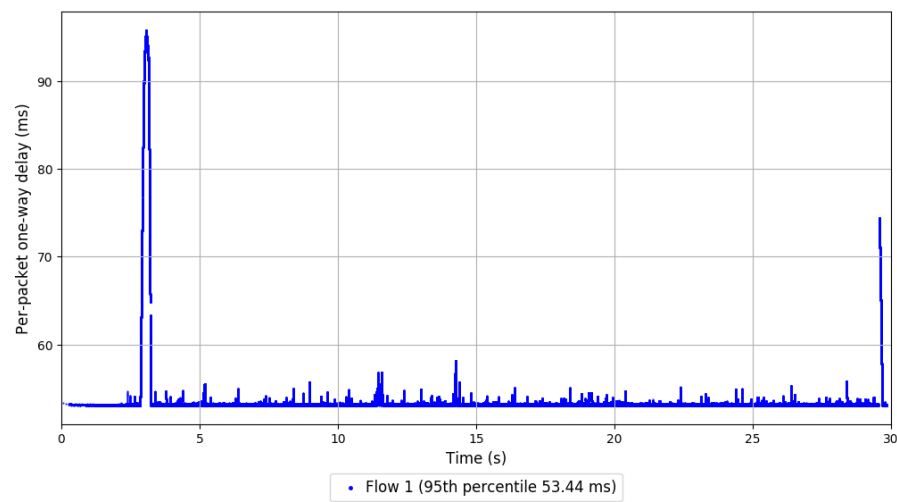
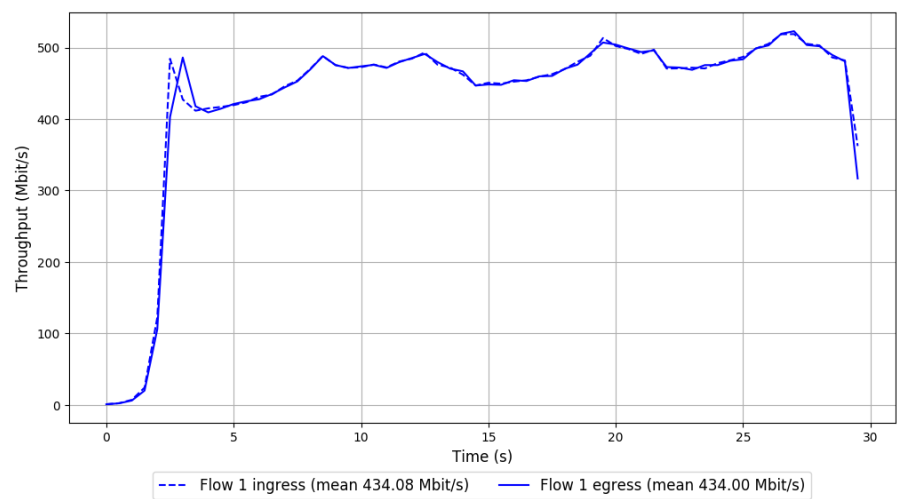
-- Flow 1:

Average throughput: 434.00 Mbit/s

95th percentile per-packet one-way delay: 53.443 ms

Loss rate: 0.38%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-30 19:21:26

End at: 2018-01-30 19:21:56

Below is generated by plot.py at 2018-01-30 23:18:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.29 Mbit/s

95th percentile per-packet one-way delay: 67.754 ms

Loss rate: 0.54%

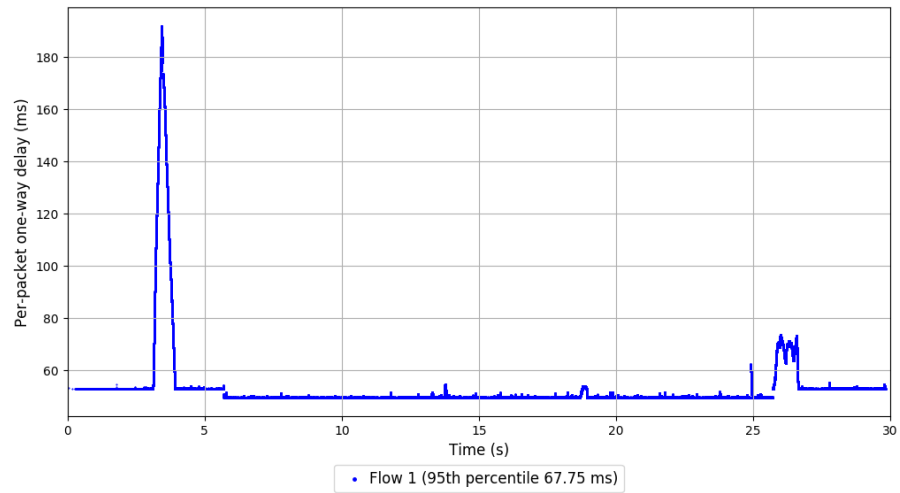
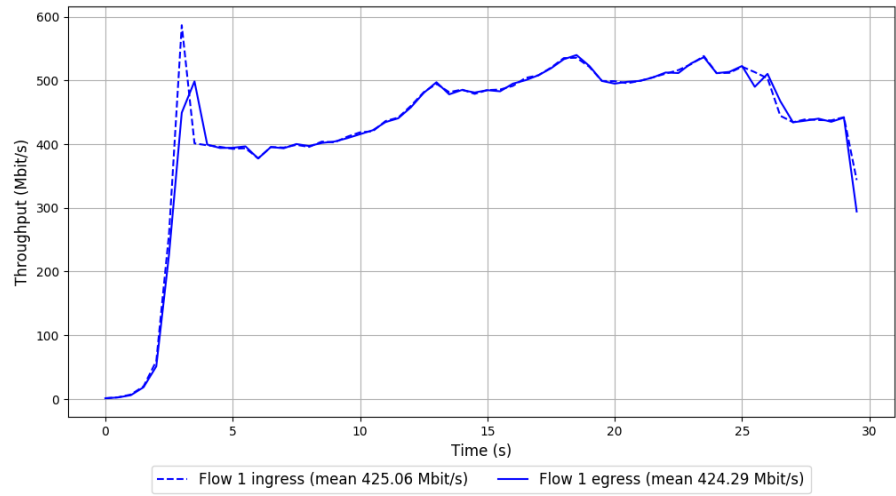
-- Flow 1:

Average throughput: 424.29 Mbit/s

95th percentile per-packet one-way delay: 67.754 ms

Loss rate: 0.54%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-30 19:35:28

End at: 2018-01-30 19:35:58

Below is generated by plot.py at 2018-01-30 23:21:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.61 Mbit/s

95th percentile per-packet one-way delay: 53.422 ms

Loss rate: 0.41%

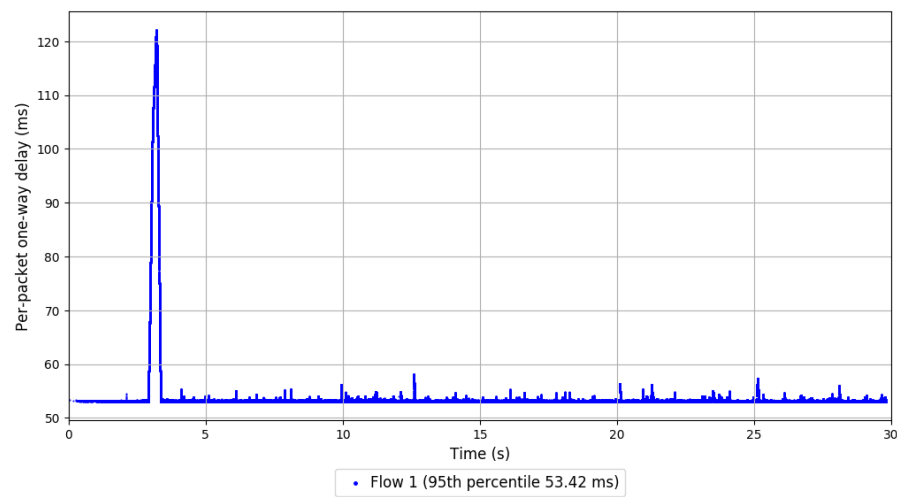
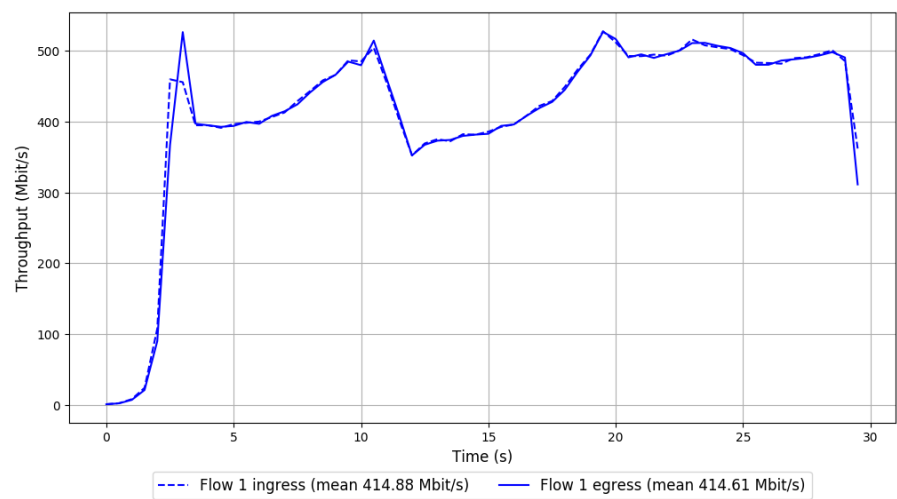
-- Flow 1:

Average throughput: 414.61 Mbit/s

95th percentile per-packet one-way delay: 53.422 ms

Loss rate: 0.41%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-30 19:49:24

End at: 2018-01-30 19:49:54

Below is generated by plot.py at 2018-01-30 23:21:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.45 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.41%

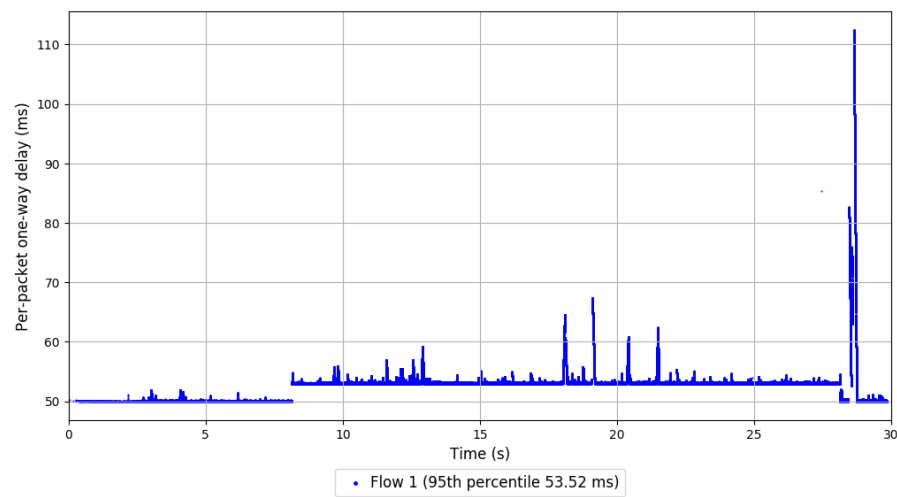
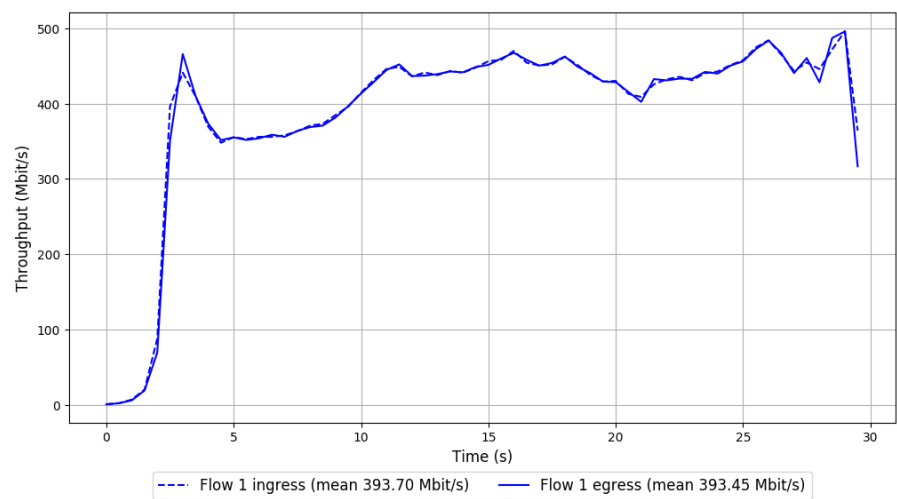
-- Flow 1:

Average throughput: 393.45 Mbit/s

95th percentile per-packet one-way delay: 53.521 ms

Loss rate: 0.41%

Run 10: Report of Vivace-latency — Data Link

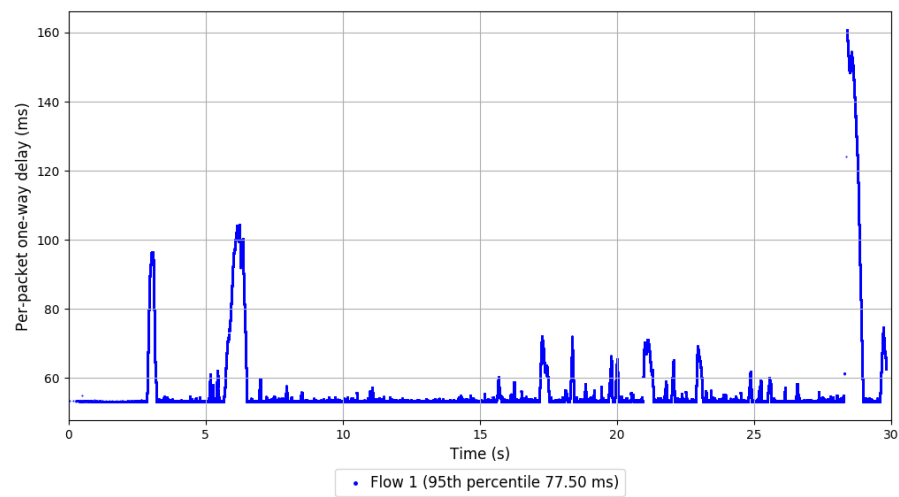
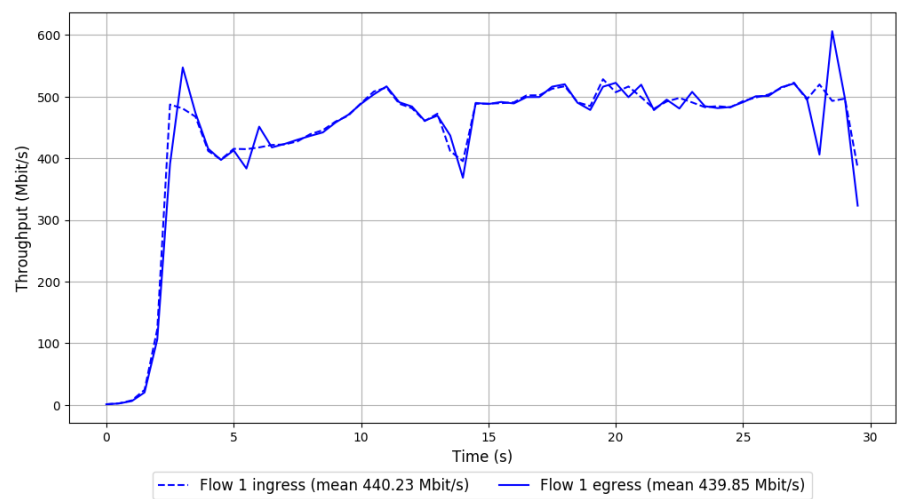


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-30 17:50:08
End at: 2018-01-30 17:50:38

# Below is generated by plot.py at 2018-01-30 23:22:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 439.85 Mbit/s
95th percentile per-packet one-way delay: 77.497 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 439.85 Mbit/s
95th percentile per-packet one-way delay: 77.497 ms
Loss rate: 0.43%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-01-30 18:04:10

End at: 2018-01-30 18:04:40

Below is generated by plot.py at 2018-01-30 23:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.55 Mbit/s

95th percentile per-packet one-way delay: 105.248 ms

Loss rate: 0.41%

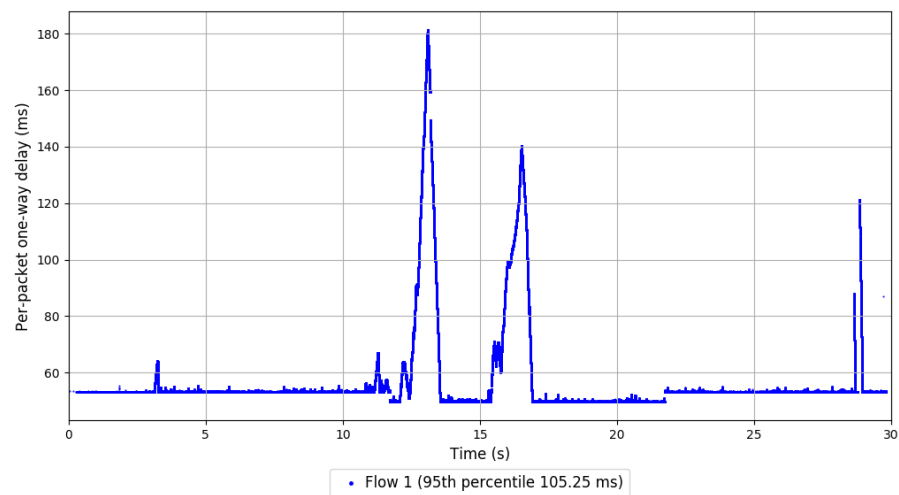
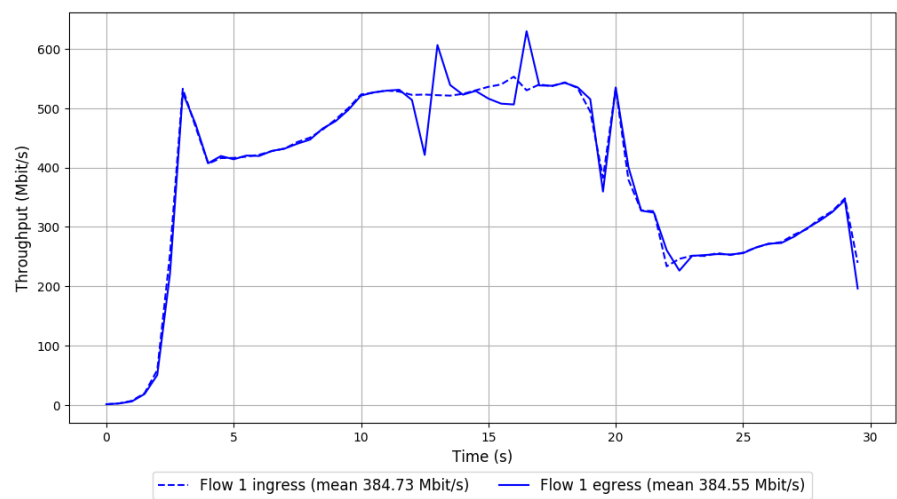
-- Flow 1:

Average throughput: 384.55 Mbit/s

95th percentile per-packet one-way delay: 105.248 ms

Loss rate: 0.41%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-30 18:18:22

End at: 2018-01-30 18:18:52

Below is generated by plot.py at 2018-01-30 23:22:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.31 Mbit/s

95th percentile per-packet one-way delay: 71.810 ms

Loss rate: 0.41%

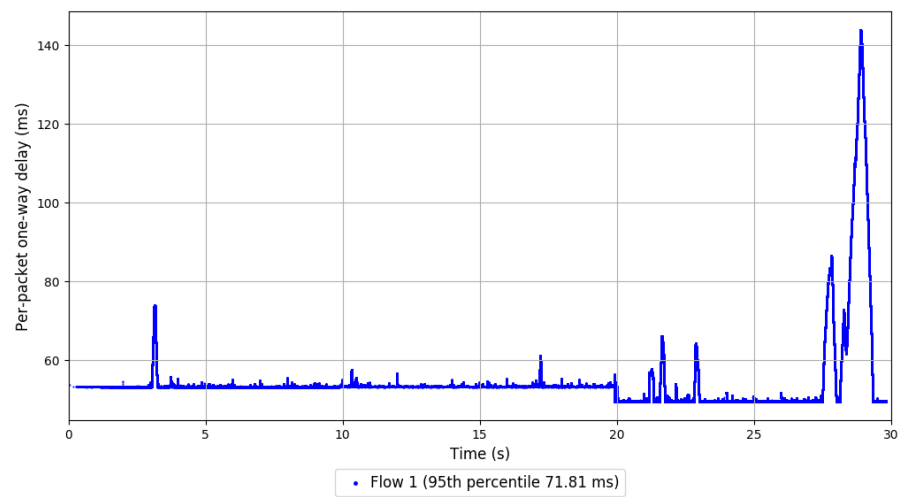
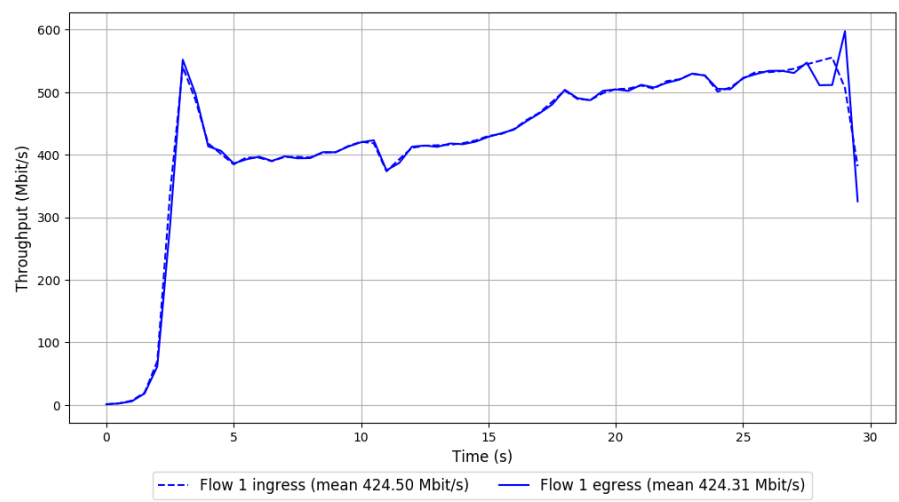
-- Flow 1:

Average throughput: 424.31 Mbit/s

95th percentile per-packet one-way delay: 71.810 ms

Loss rate: 0.41%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-30 18:32:32

End at: 2018-01-30 18:33:02

Below is generated by plot.py at 2018-01-30 23:22:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.95 Mbit/s

95th percentile per-packet one-way delay: 164.044 ms

Loss rate: 1.05%

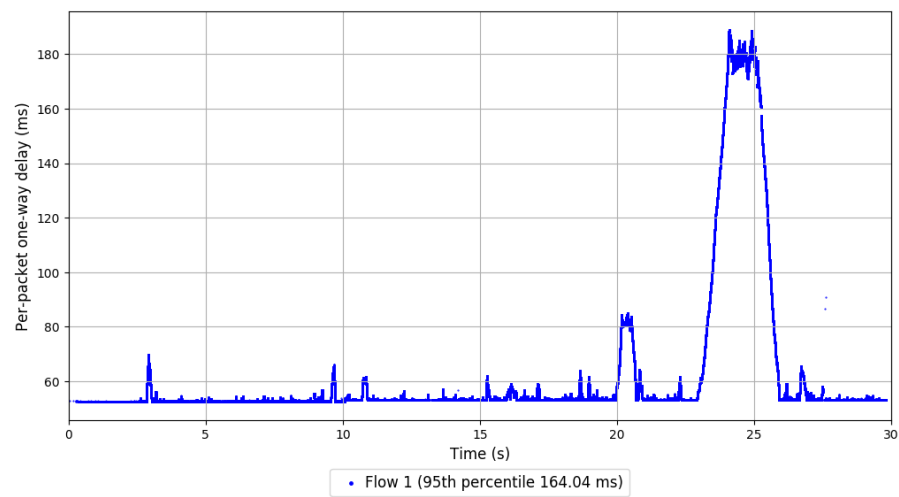
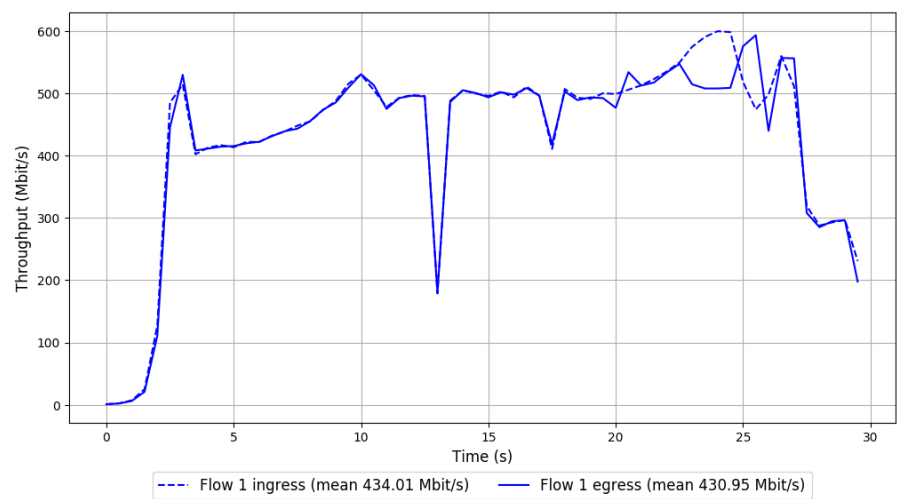
-- Flow 1:

Average throughput: 430.95 Mbit/s

95th percentile per-packet one-way delay: 164.044 ms

Loss rate: 1.05%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-30 18:46:37

End at: 2018-01-30 18:47:07

Below is generated by plot.py at 2018-01-30 23:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 453.38 Mbit/s

95th percentile per-packet one-way delay: 103.938 ms

Loss rate: 0.95%

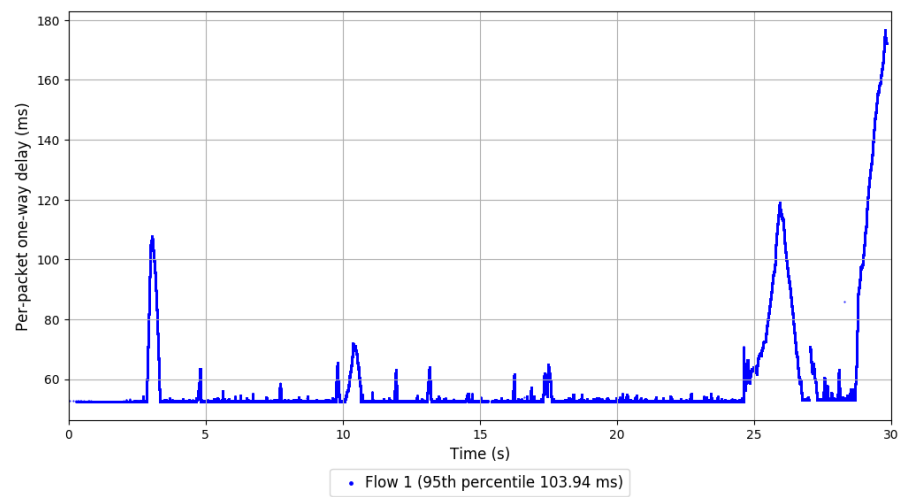
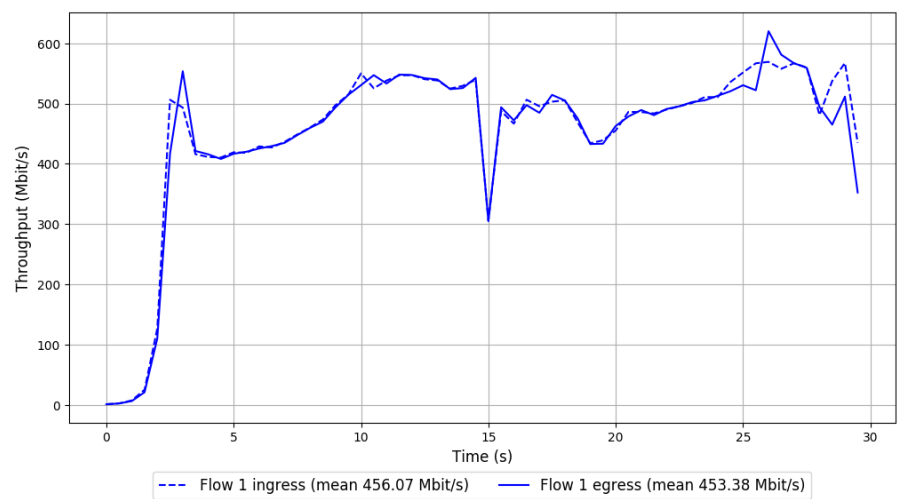
-- Flow 1:

Average throughput: 453.38 Mbit/s

95th percentile per-packet one-way delay: 103.938 ms

Loss rate: 0.95%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-30 19:00:41

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

Below is generated by plot.py at 2018-01-30 23:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 450.29 Mbit/s

95th percentile per-packet one-way delay: 87.419 ms

Loss rate: 0.40%

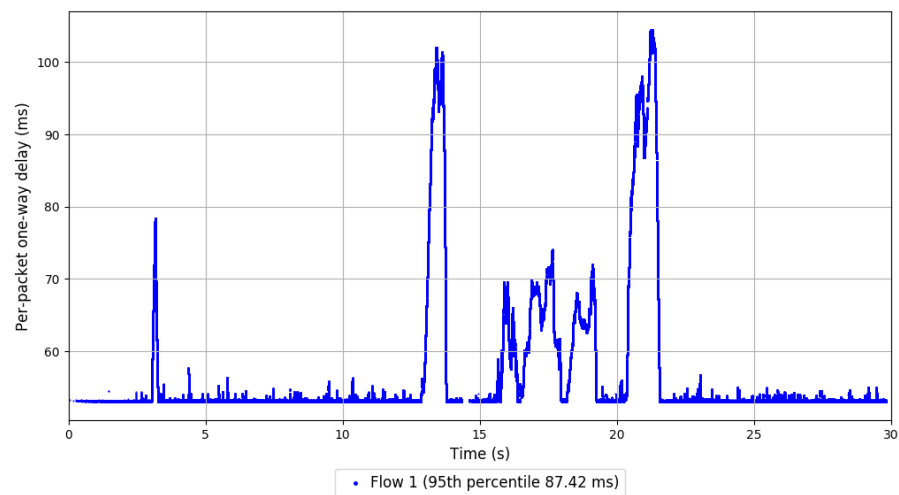
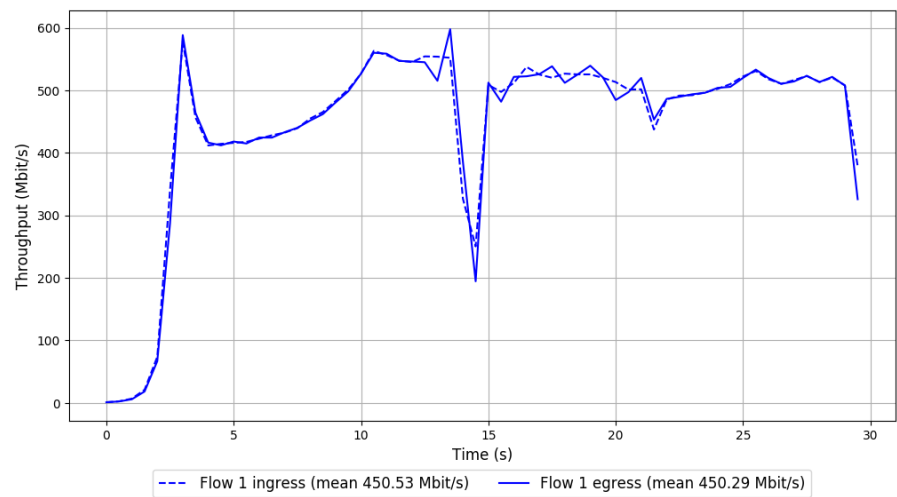
-- Flow 1:

Average throughput: 450.29 Mbit/s

95th percentile per-packet one-way delay: 87.419 ms

Loss rate: 0.40%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-30 19:14:59

End at: 2018-01-30 19:15:29

Below is generated by plot.py at 2018-01-30 23:27:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.81 Mbit/s

95th percentile per-packet one-way delay: 55.390 ms

Loss rate: 0.35%

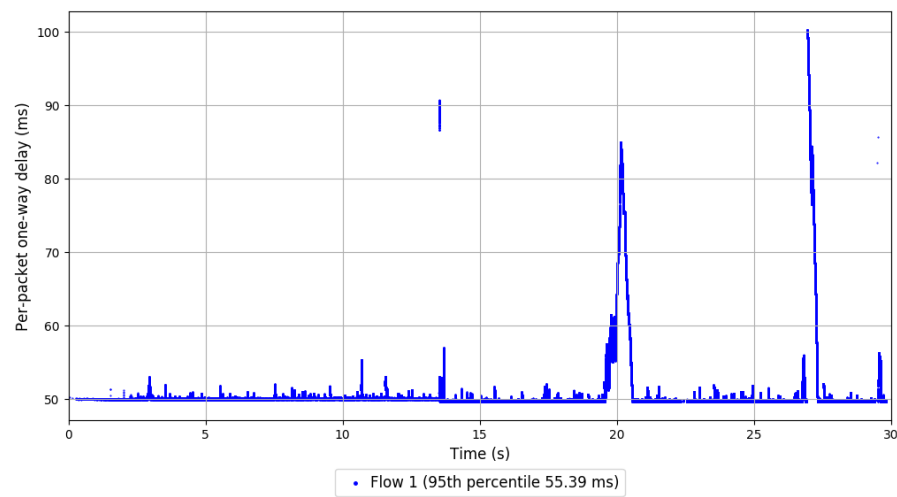
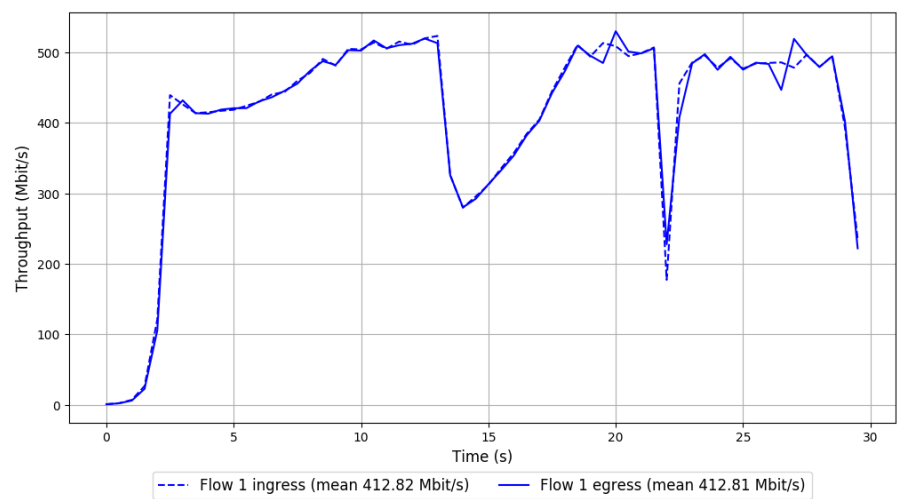
-- Flow 1:

Average throughput: 412.81 Mbit/s

95th percentile per-packet one-way delay: 55.390 ms

Loss rate: 0.35%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-30 19:28:58

End at: 2018-01-30 19:29:28

Below is generated by plot.py at 2018-01-30 23:27:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.51 Mbit/s

95th percentile per-packet one-way delay: 103.011 ms

Loss rate: 1.14%

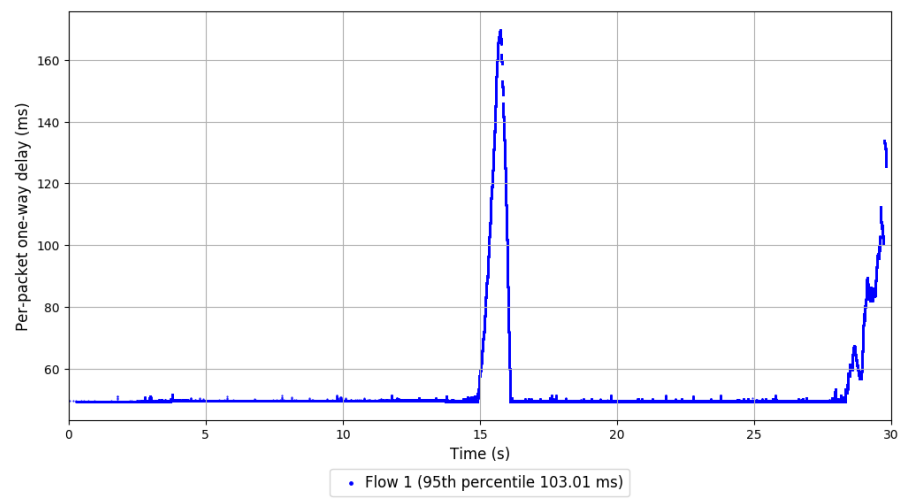
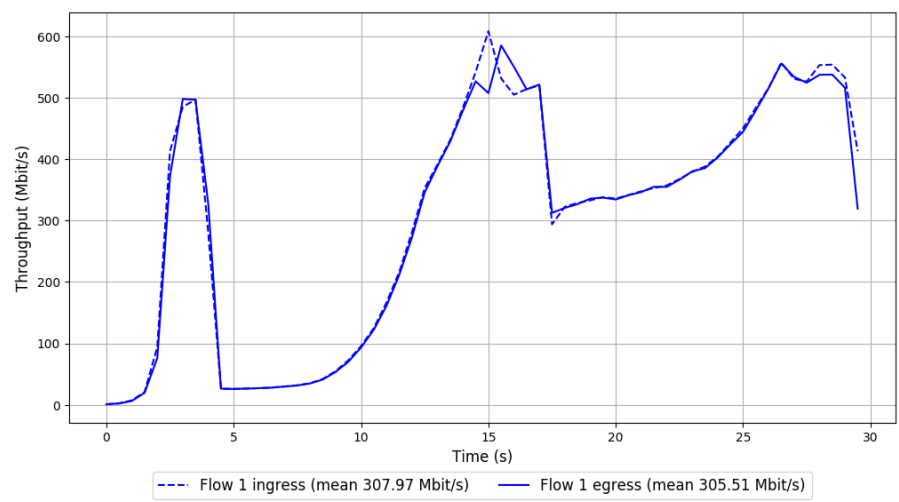
-- Flow 1:

Average throughput: 305.51 Mbit/s

95th percentile per-packet one-way delay: 103.011 ms

Loss rate: 1.14%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-30 19:42:51

End at: 2018-01-30 19:43:21

Below is generated by plot.py at 2018-01-30 23:27:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 291.95 Mbit/s

95th percentile per-packet one-way delay: 65.682 ms

Loss rate: 1.63%

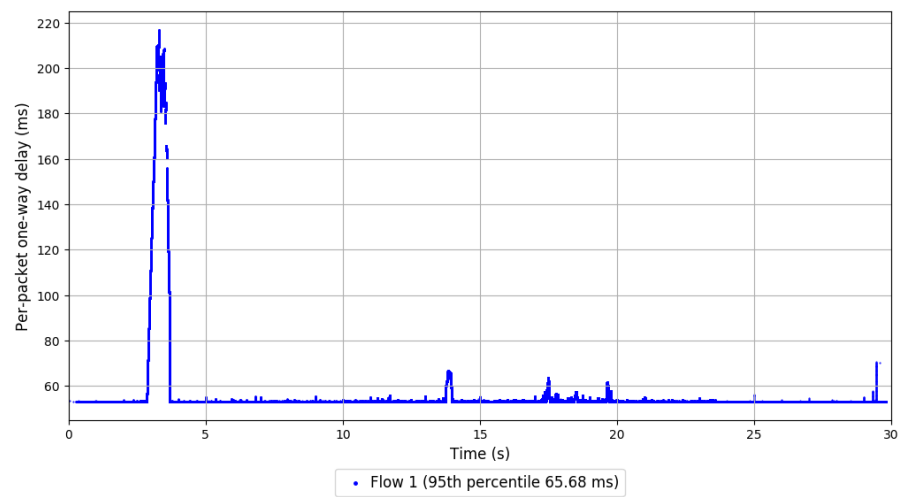
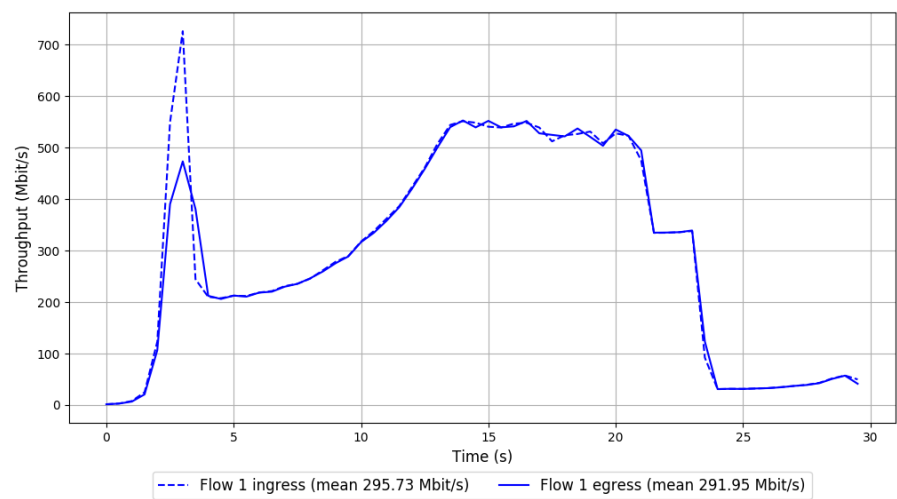
-- Flow 1:

Average throughput: 291.95 Mbit/s

95th percentile per-packet one-way delay: 65.682 ms

Loss rate: 1.63%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-30 19:56:59

End at: 2018-01-30 19:57:29

Below is generated by plot.py at 2018-01-30 23:29:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.69 Mbit/s

95th percentile per-packet one-way delay: 54.383 ms

Loss rate: 0.36%

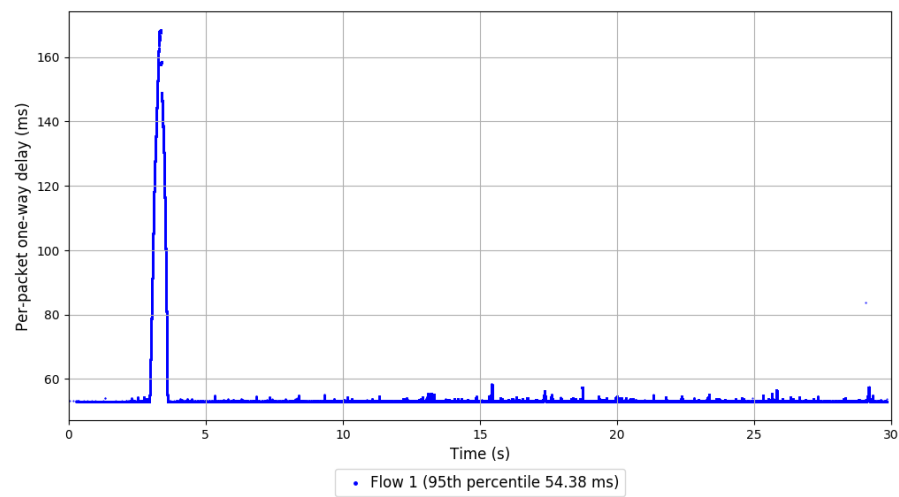
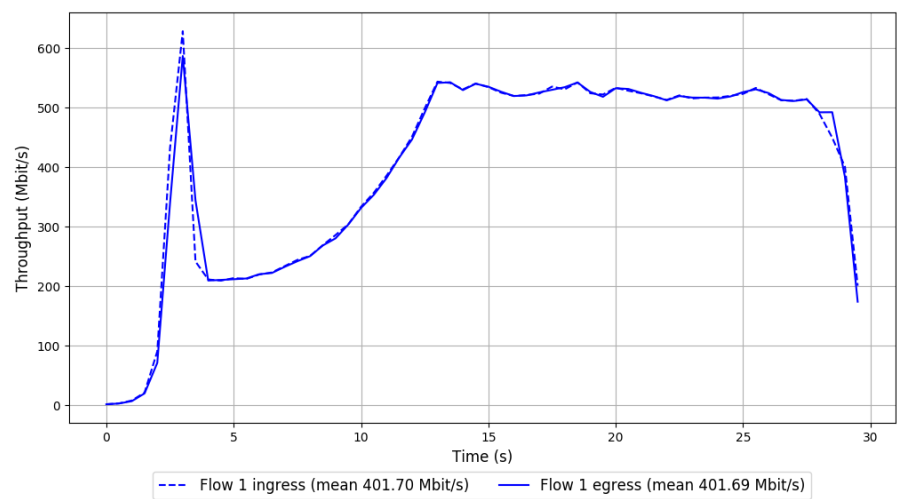
-- Flow 1:

Average throughput: 401.69 Mbit/s

95th percentile per-packet one-way delay: 54.383 ms

Loss rate: 0.36%

Run 10: Report of Vivace-loss — Data Link

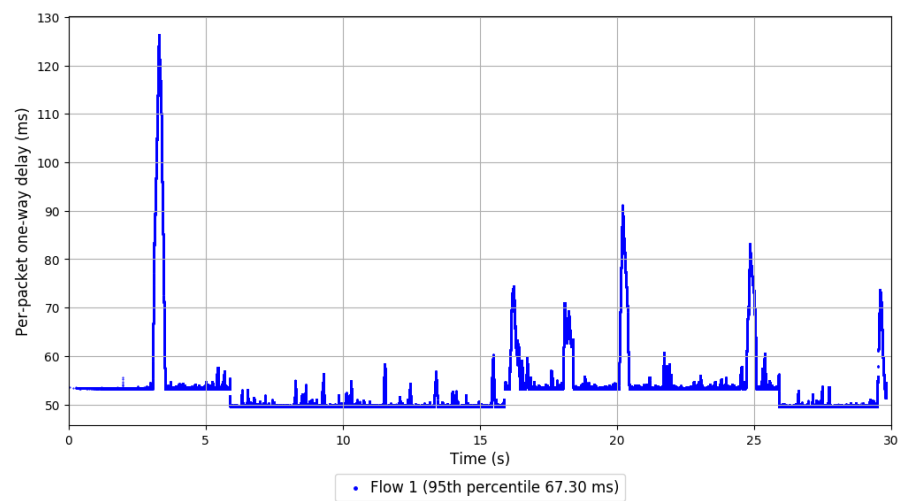
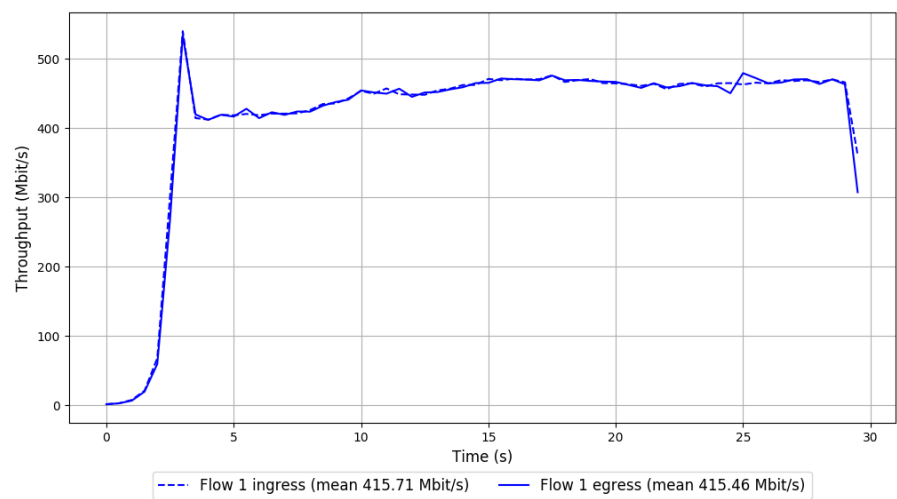


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-30 17:48:16
End at: 2018-01-30 17:48:46

# Below is generated by plot.py at 2018-01-30 23:29:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 415.46 Mbit/s
95th percentile per-packet one-way delay: 67.304 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 415.46 Mbit/s
95th percentile per-packet one-way delay: 67.304 ms
Loss rate: 0.42%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-01-30 18:02:18

End at: 2018-01-30 18:02:48

Below is generated by plot.py at 2018-01-30 23:30:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.07 Mbit/s

95th percentile per-packet one-way delay: 57.465 ms

Loss rate: 0.20%

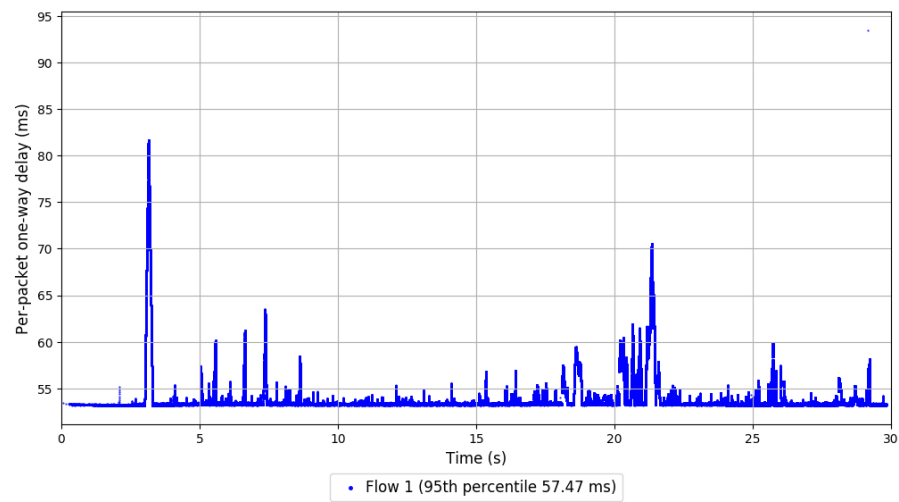
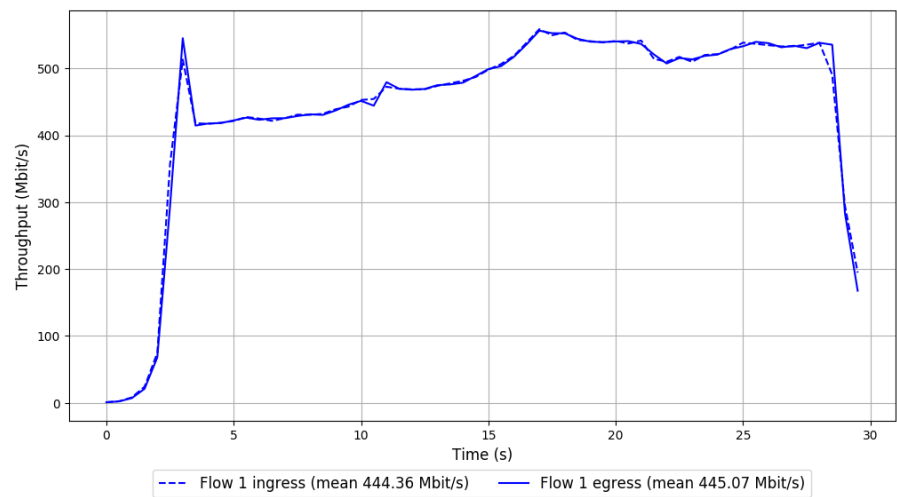
-- Flow 1:

Average throughput: 445.07 Mbit/s

95th percentile per-packet one-way delay: 57.465 ms

Loss rate: 0.20%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-30 18:16:32

End at: 2018-01-30 18:17:02

Below is generated by plot.py at 2018-01-30 23:33:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.05 Mbit/s

95th percentile per-packet one-way delay: 51.734 ms

Loss rate: 0.41%

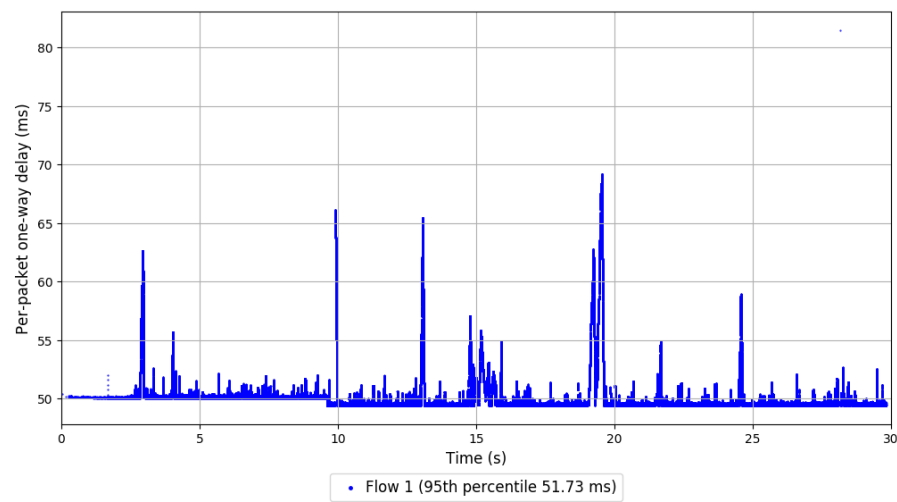
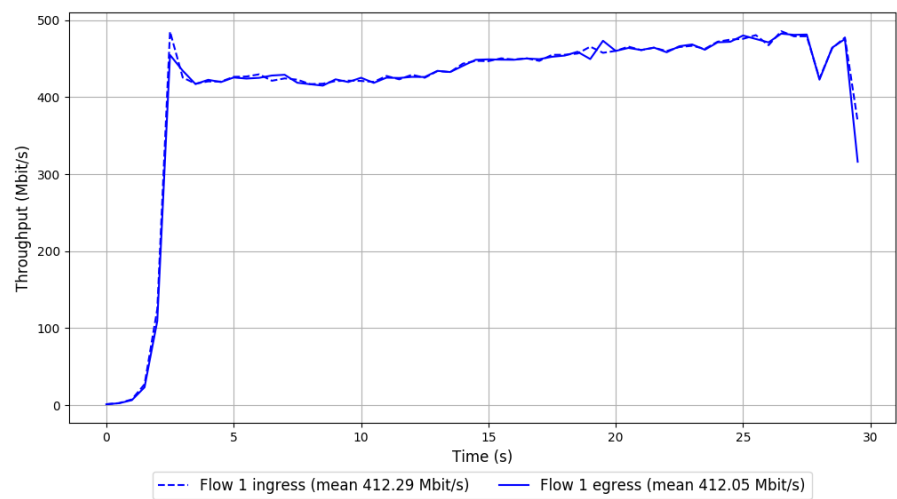
-- Flow 1:

Average throughput: 412.05 Mbit/s

95th percentile per-packet one-way delay: 51.734 ms

Loss rate: 0.41%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-30 18:30:41

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

Below is generated by plot.py at 2018-01-30 23:33:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.23 Mbit/s

95th percentile per-packet one-way delay: 58.751 ms

Loss rate: 0.36%

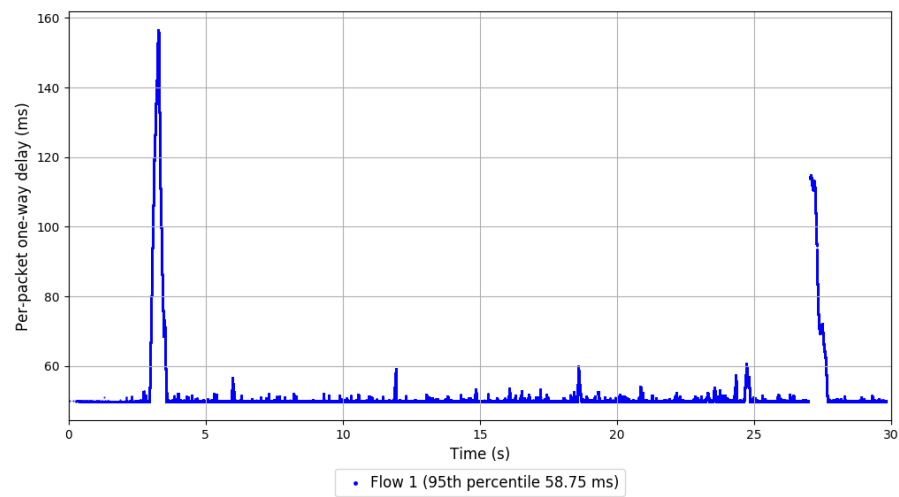
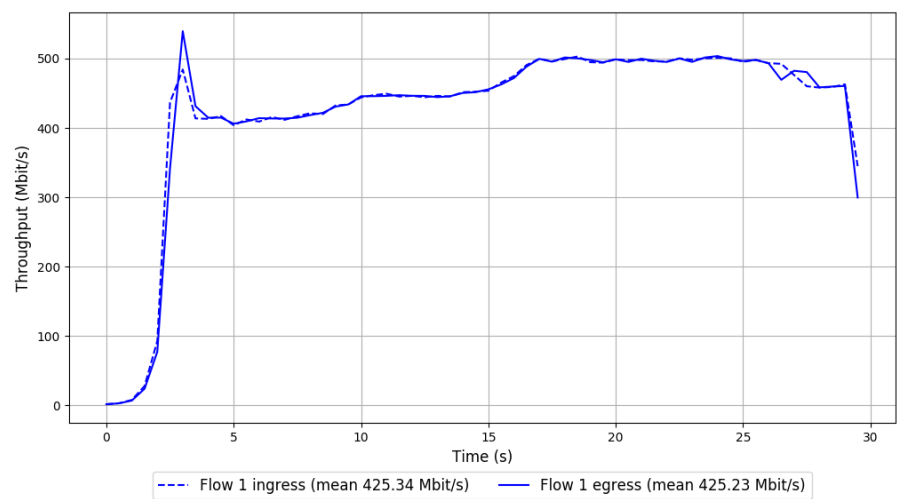
-- Flow 1:

Average throughput: 425.23 Mbit/s

95th percentile per-packet one-way delay: 58.751 ms

Loss rate: 0.36%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-30 18:44:46

End at: 2018-01-30 18:45:16

Below is generated by plot.py at 2018-01-30 23:33:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.34 Mbit/s

95th percentile per-packet one-way delay: 62.295 ms

Loss rate: 0.40%

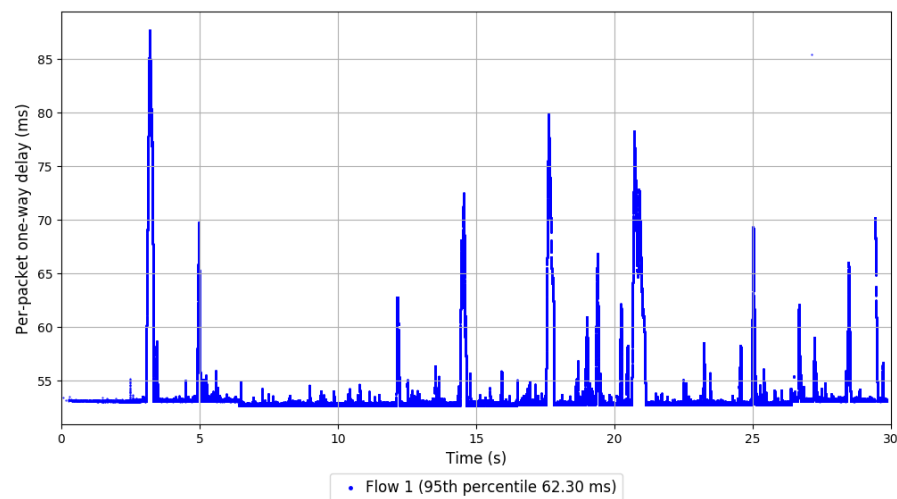
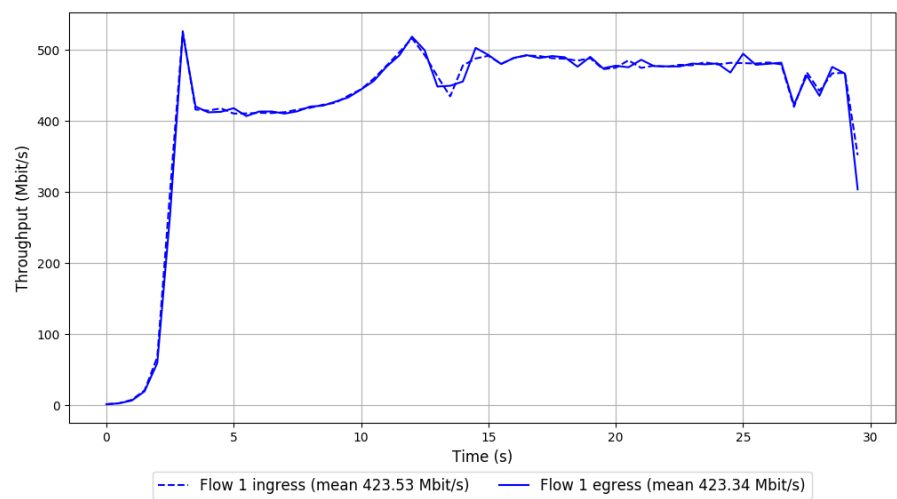
-- Flow 1:

Average throughput: 423.34 Mbit/s

95th percentile per-packet one-way delay: 62.295 ms

Loss rate: 0.40%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-30 18:58:51

End at: 2018-01-30 18:59:21

Below is generated by plot.py at 2018-01-30 23:33:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.45 Mbit/s

95th percentile per-packet one-way delay: 53.216 ms

Loss rate: 0.22%

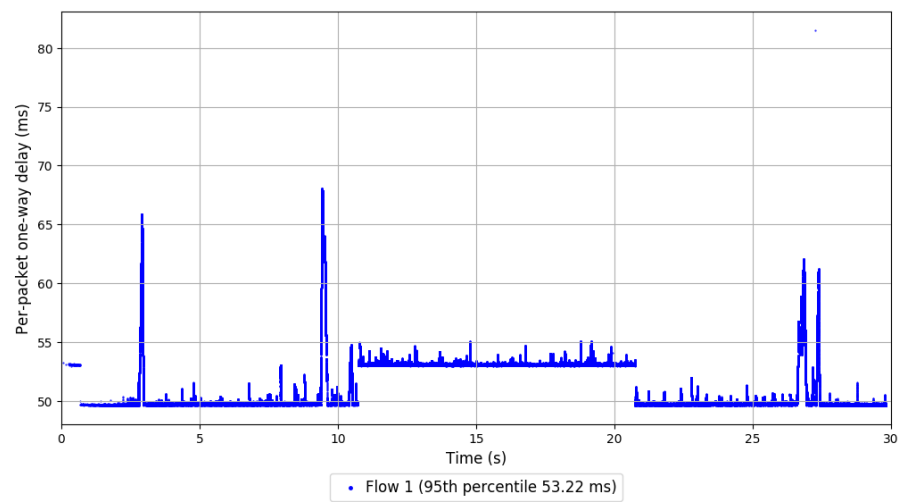
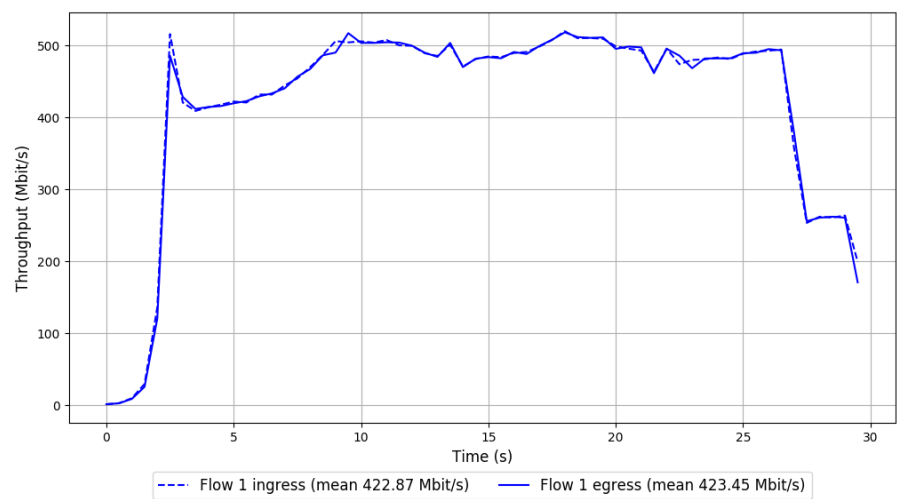
-- Flow 1:

Average throughput: 423.45 Mbit/s

95th percentile per-packet one-way delay: 53.216 ms

Loss rate: 0.22%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-30 19:13:07

End at: 2018-01-30 19:13:37

Below is generated by plot.py at 2018-01-30 23:34:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.12 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.21%

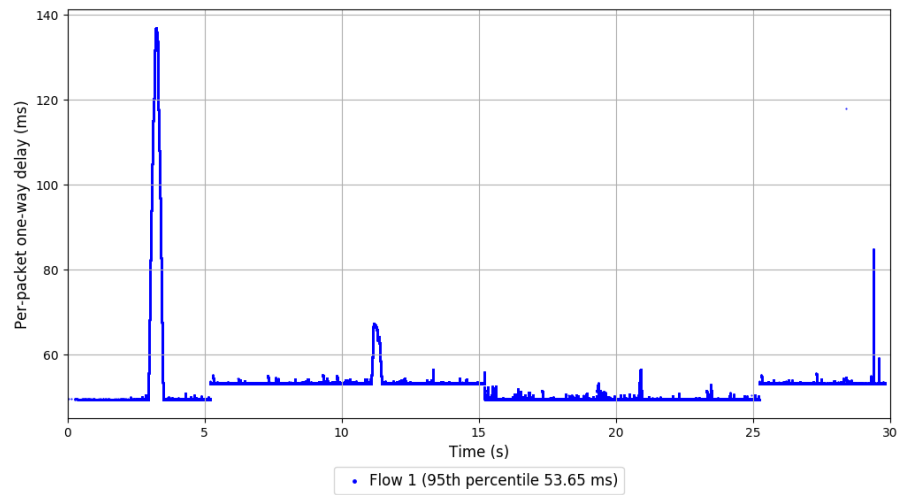
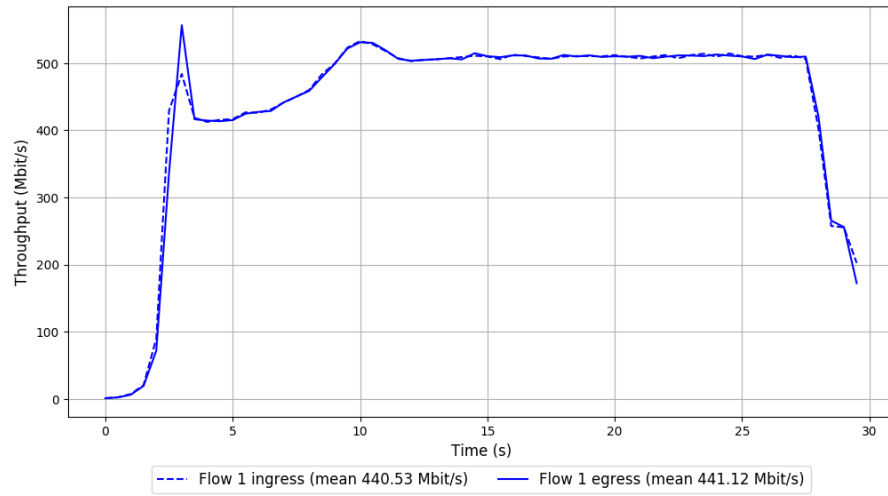
-- Flow 1:

Average throughput: 441.12 Mbit/s

95th percentile per-packet one-way delay: 53.652 ms

Loss rate: 0.21%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-30 19:27:06

End at: 2018-01-30 19:27:36

Below is generated by plot.py at 2018-01-30 23:34:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.64 Mbit/s

95th percentile per-packet one-way delay: 56.863 ms

Loss rate: 0.39%

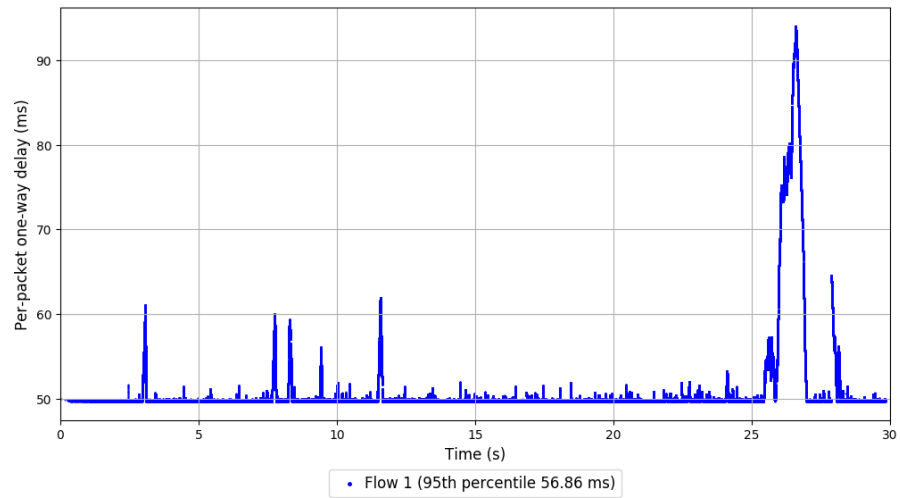
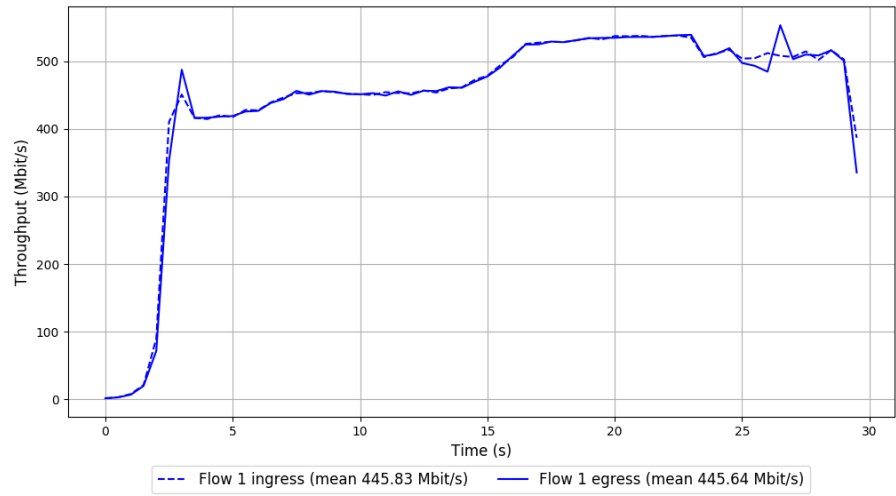
-- Flow 1:

Average throughput: 445.64 Mbit/s

95th percentile per-packet one-way delay: 56.863 ms

Loss rate: 0.39%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-30 19:41:06

End at: 2018-01-30 19:41:36

Below is generated by plot.py at 2018-01-30 23:34:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.46 Mbit/s

95th percentile per-packet one-way delay: 50.063 ms

Loss rate: 0.29%

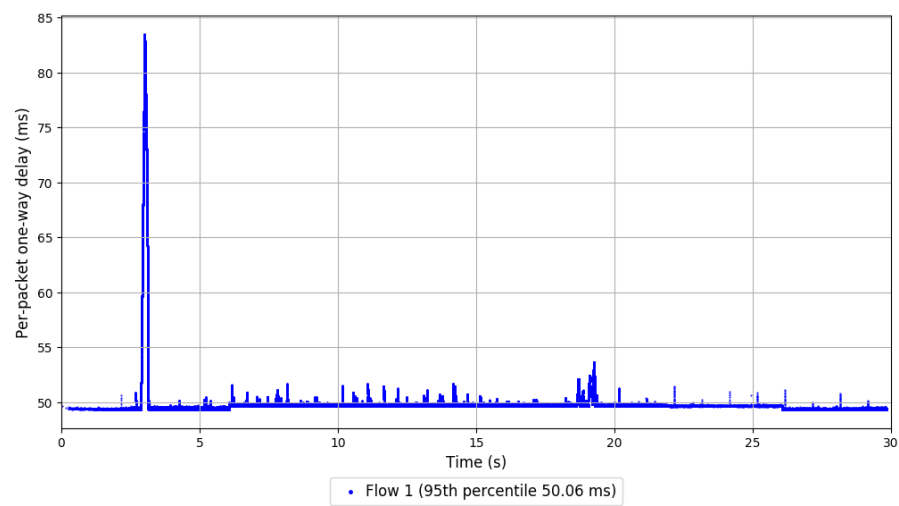
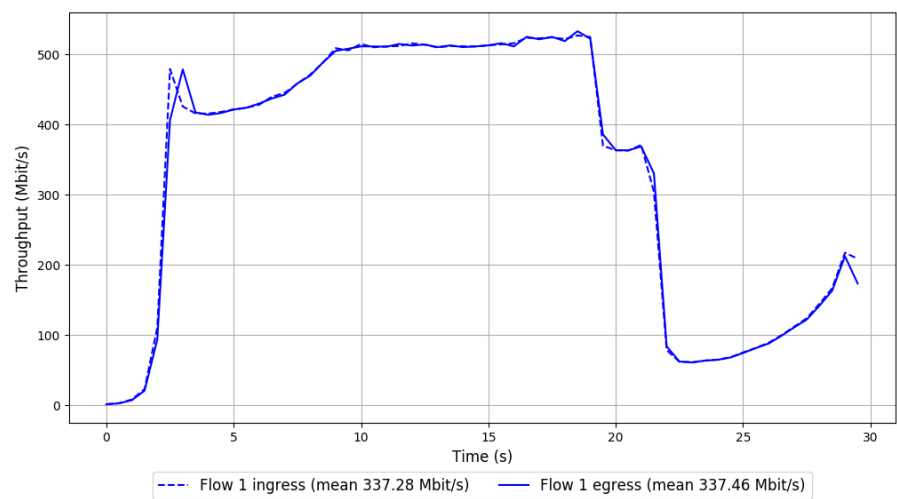
-- Flow 1:

Average throughput: 337.46 Mbit/s

95th percentile per-packet one-way delay: 50.063 ms

Loss rate: 0.29%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-01-30 19:55:07

End at: 2018-01-30 19:55:37

Below is generated by plot.py at 2018-01-30 23:34:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.48 Mbit/s

95th percentile per-packet one-way delay: 81.392 ms

Loss rate: 0.19%

-- Flow 1:

Average throughput: 448.48 Mbit/s

95th percentile per-packet one-way delay: 81.392 ms

Loss rate: 0.19%

Run 10: Report of Vivace-LTE — Data Link

