

Pantheon Report

Generated at 2018-01-31 00:41:35 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

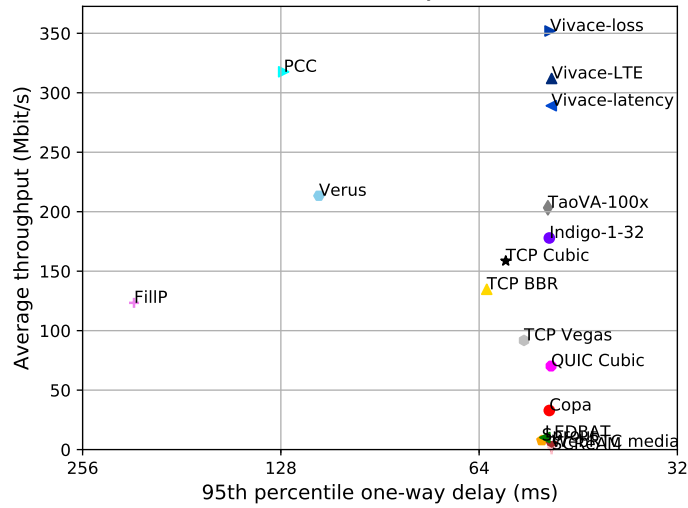
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

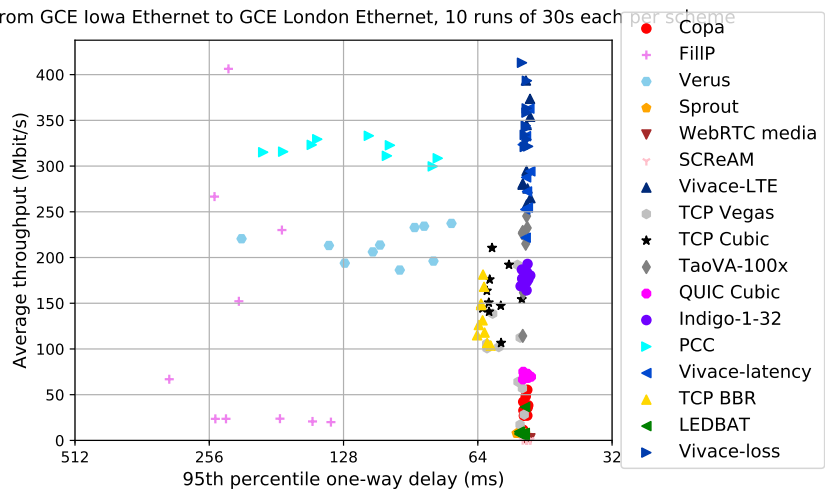
Git summary:

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	134.78	62.32	0.23
TCP Cubic	10	158.63	58.31	0.18
LEDBAT	10	10.15	50.87	1.14
PCC	9	317.63	126.75	0.16
QUIC Cubic	10	70.22	49.77	0.01
SCReAM	10	0.22	49.67	0.00
WebRTC media	10	2.30	49.69	0.00
Sprout	10	7.68	51.42	1.15
TaoVA-100x	7	203.30	50.32	0.03
TCP Vegas	10	91.79	54.71	0.47
Verus	10	213.41	112.06	0.25
Copa	10	32.88	50.08	0.00
FillP	10	123.38	213.88	0.44
Indigo-1-32	10	177.91	50.07	0.02
Vivace-latency	9	289.10	49.73	0.01
Vivace-loss	10	351.93	49.94	0.00
Vivace-LTE	10	312.01	49.67	0.01

Run 1: Statistics of TCP BBR

Start at: 2018-01-30 20:14:29

End at: 2018-01-30 20:14:59

Below is generated by plot.py at 2018-01-30 23:38:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.75 Mbit/s

95th percentile per-packet one-way delay: 59.892 ms

Loss rate: 0.49%

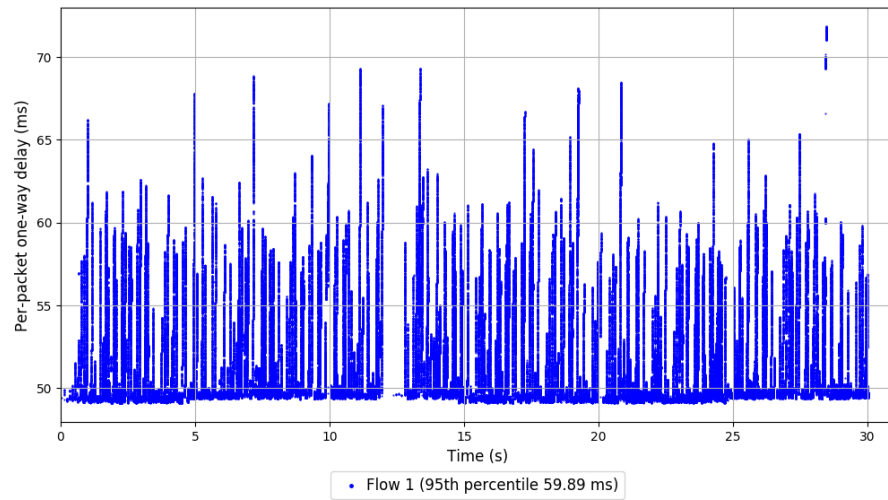
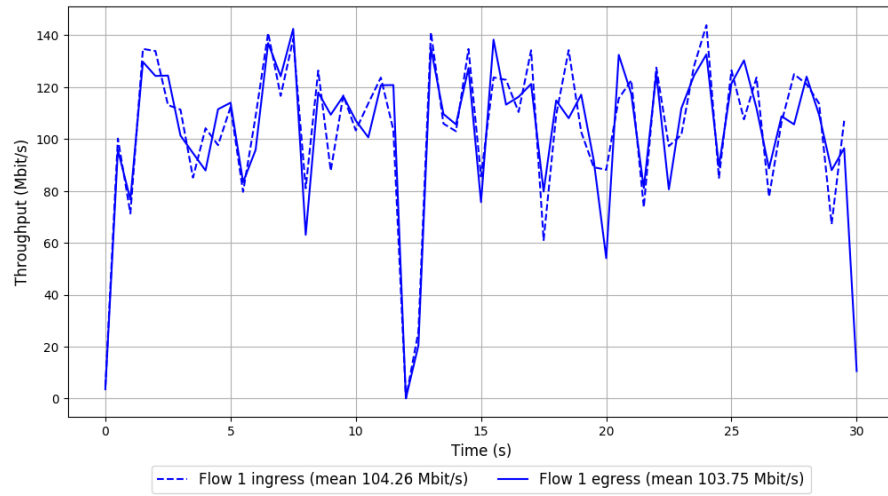
-- Flow 1:

Average throughput: 103.75 Mbit/s

95th percentile per-packet one-way delay: 59.892 ms

Loss rate: 0.49%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-01-30 20:28:34

End at: 2018-01-30 20:29:04

Below is generated by plot.py at 2018-01-30 23:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.03 Mbit/s

95th percentile per-packet one-way delay: 62.941 ms

Loss rate: 0.00%

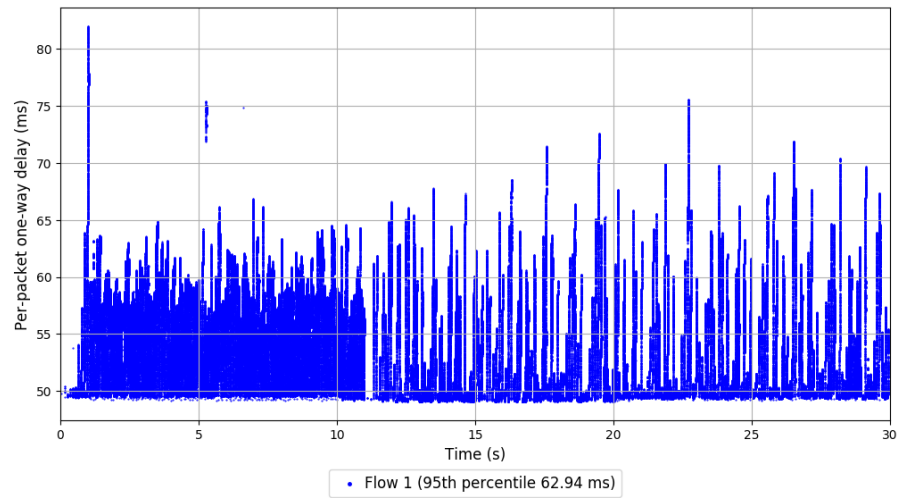
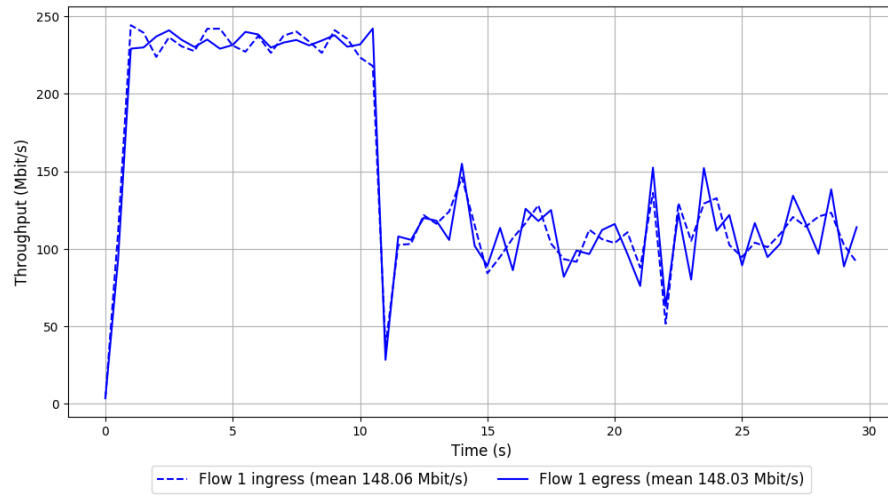
-- Flow 1:

Average throughput: 148.03 Mbit/s

95th percentile per-packet one-way delay: 62.941 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-01-30 20:42:25

End at: 2018-01-30 20:42:55

Below is generated by plot.py at 2018-01-30 23:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.46 Mbit/s

95th percentile per-packet one-way delay: 60.986 ms

Loss rate: 0.06%

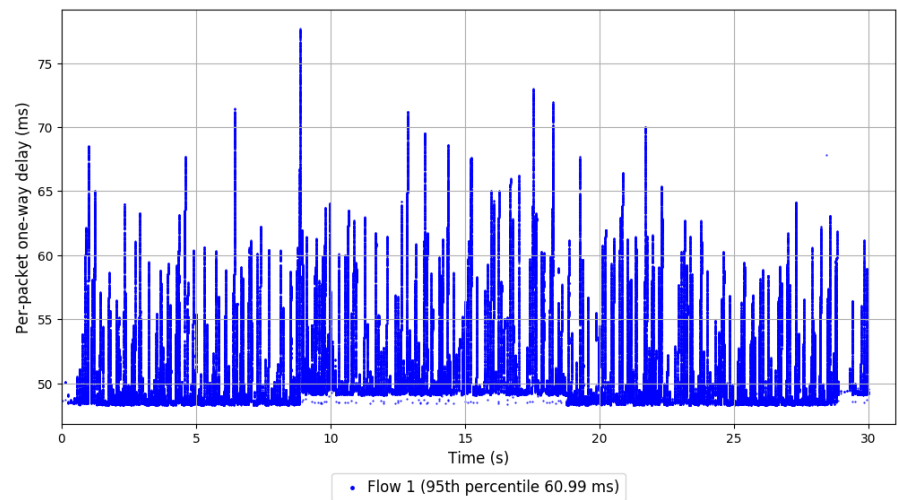
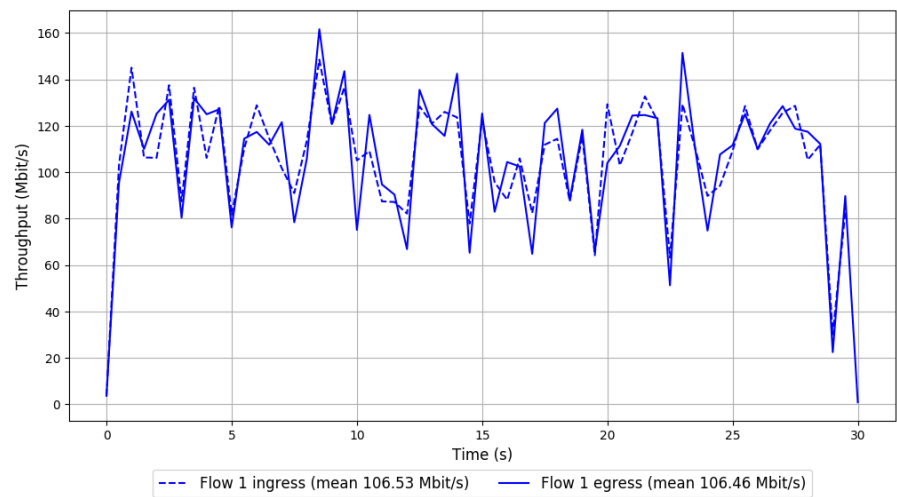
-- Flow 1:

Average throughput: 106.46 Mbit/s

95th percentile per-packet one-way delay: 60.986 ms

Loss rate: 0.06%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-01-30 20:56:04

End at: 2018-01-30 20:56:34

Below is generated by plot.py at 2018-01-30 23:39:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.95 Mbit/s

95th percentile per-packet one-way delay: 61.804 ms

Loss rate: 0.51%

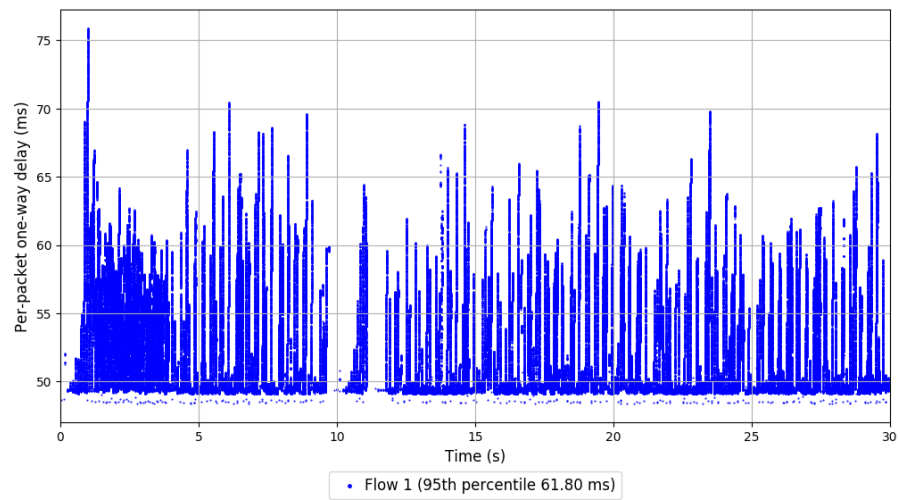
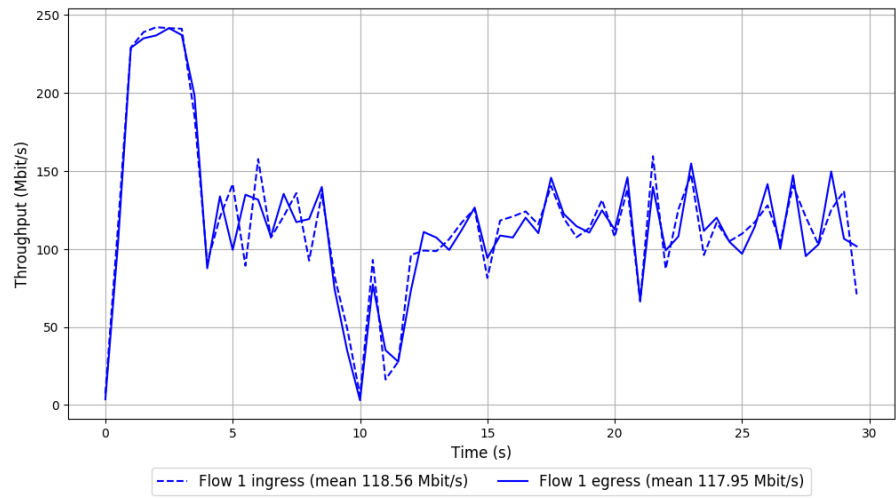
-- Flow 1:

Average throughput: 117.95 Mbit/s

95th percentile per-packet one-way delay: 61.804 ms

Loss rate: 0.51%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-01-30 21:09:39

End at: 2018-01-30 21:10:09

Below is generated by plot.py at 2018-01-30 23:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.00 Mbit/s

95th percentile per-packet one-way delay: 61.968 ms

Loss rate: 0.00%

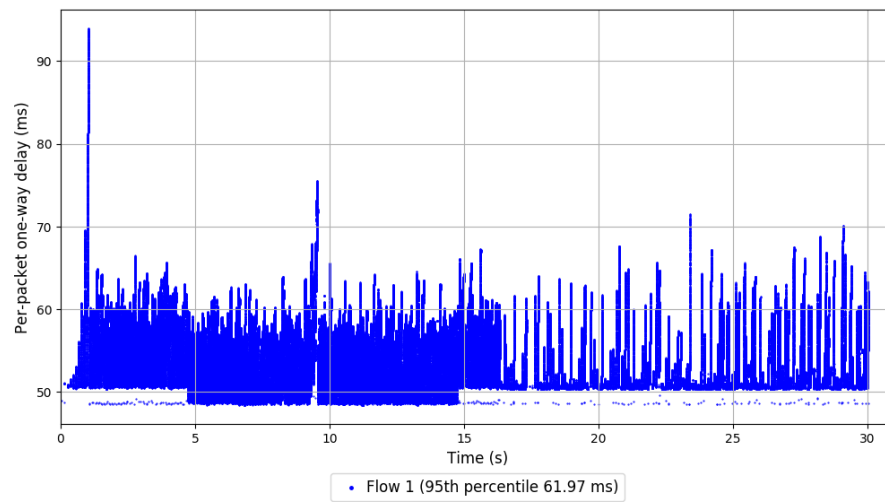
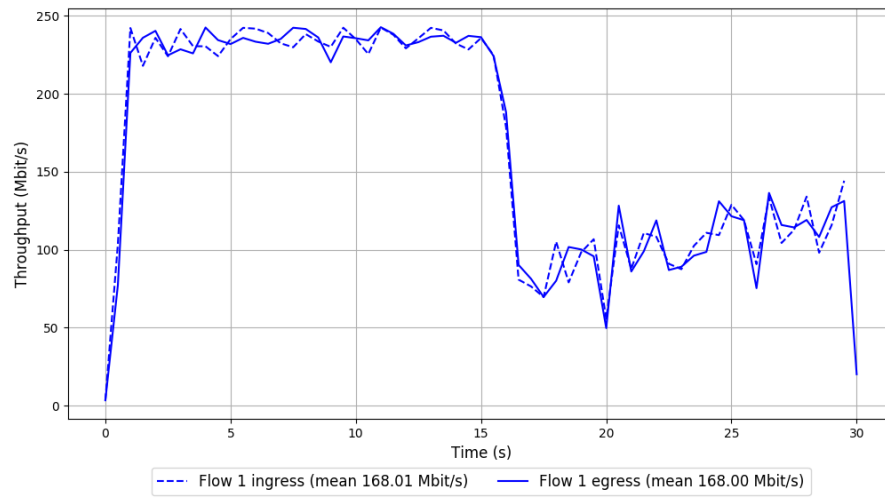
-- Flow 1:

Average throughput: 168.00 Mbit/s

95th percentile per-packet one-way delay: 61.968 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-01-30 21:23:45

End at: 2018-01-30 21:24:15

Below is generated by plot.py at 2018-01-30 23:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 131.35 Mbit/s

95th percentile per-packet one-way delay: 62.437 ms

Loss rate: 0.11%

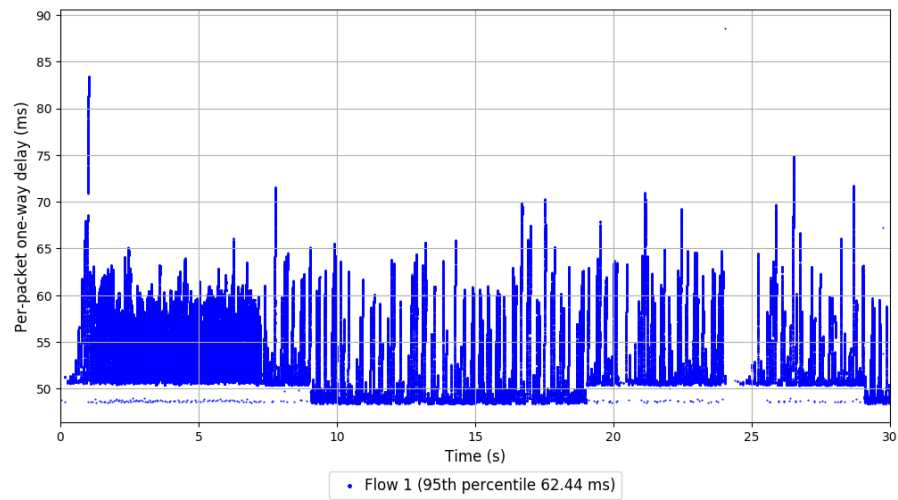
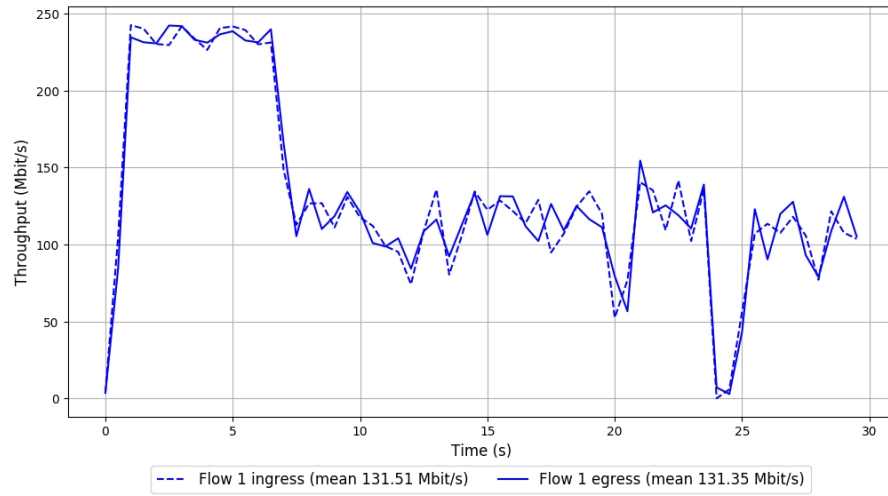
-- Flow 1:

Average throughput: 131.35 Mbit/s

95th percentile per-packet one-way delay: 62.437 ms

Loss rate: 0.11%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-01-30 21:37:20

End at: 2018-01-30 21:37:50

Below is generated by plot.py at 2018-01-30 23:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.00 Mbit/s

95th percentile per-packet one-way delay: 64.229 ms

Loss rate: 0.26%

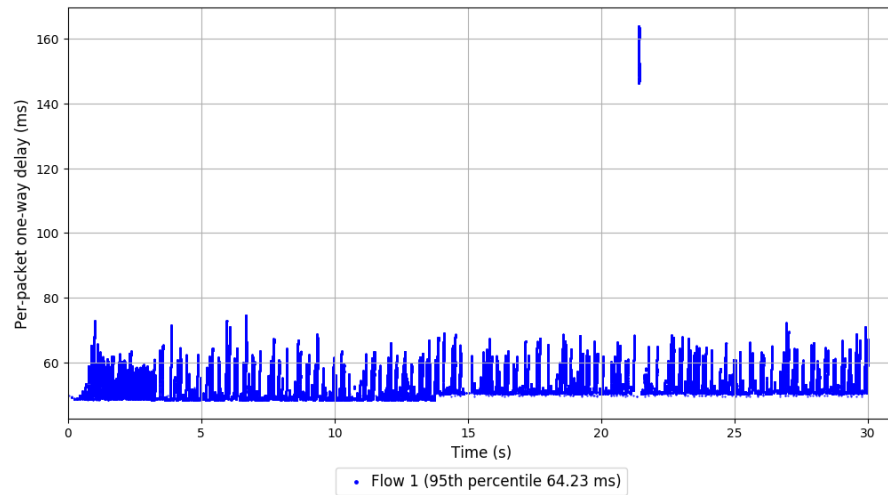
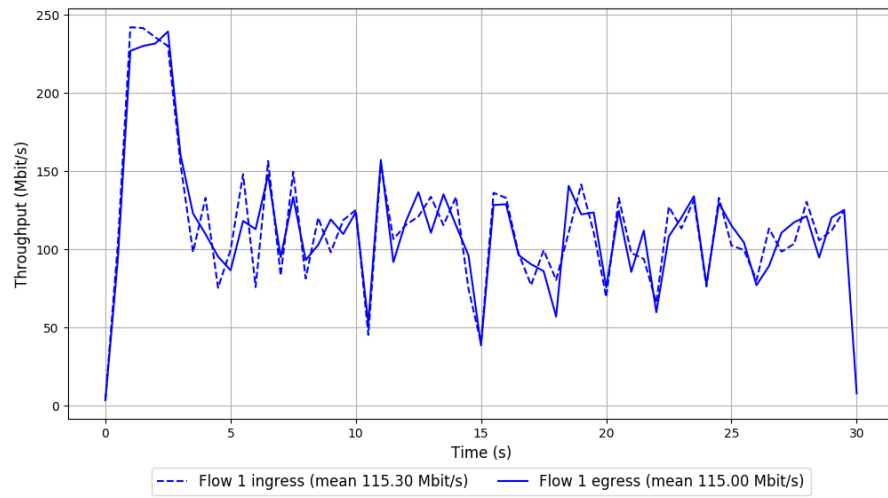
-- Flow 1:

Average throughput: 115.00 Mbit/s

95th percentile per-packet one-way delay: 64.229 ms

Loss rate: 0.26%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-01-30 21:50:58

End at: 2018-01-30 21:51:28

Below is generated by plot.py at 2018-01-30 23:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.20 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.63%

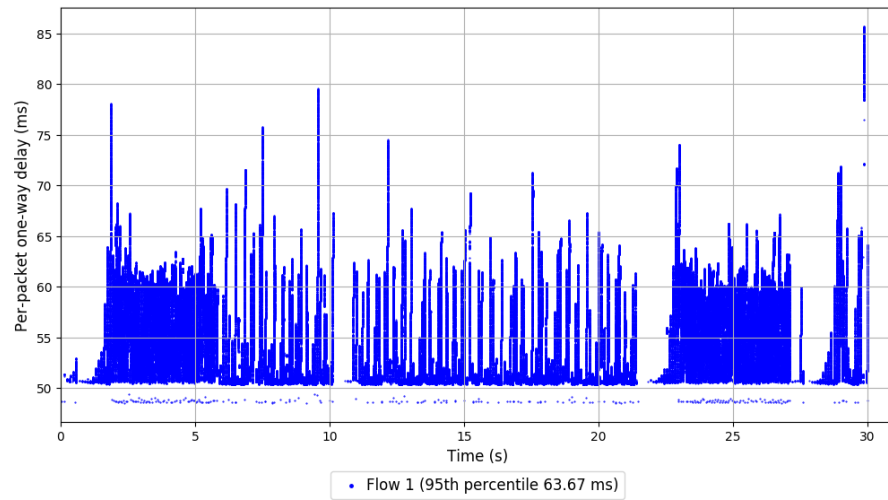
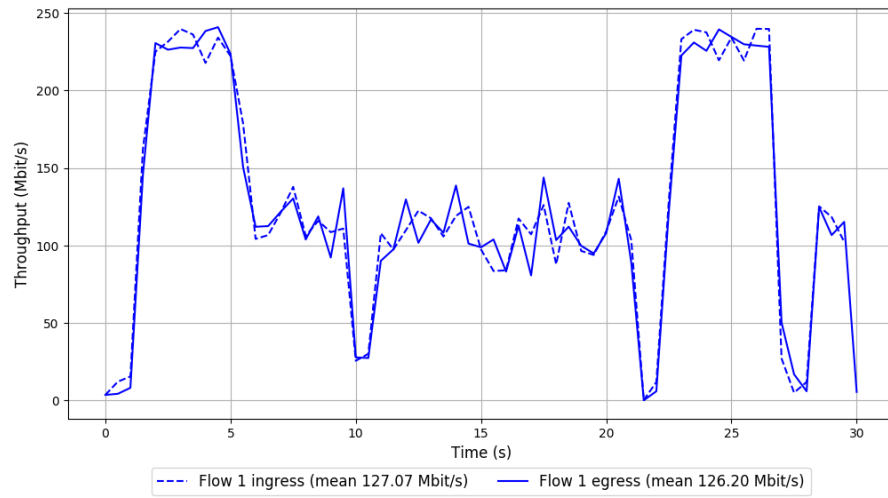
-- Flow 1:

Average throughput: 126.20 Mbit/s

95th percentile per-packet one-way delay: 63.668 ms

Loss rate: 0.63%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-01-30 22:04:38

End at: 2018-01-30 22:05:08

Below is generated by plot.py at 2018-01-30 23:42:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.39 Mbit/s

95th percentile per-packet one-way delay: 62.292 ms

Loss rate: 0.22%

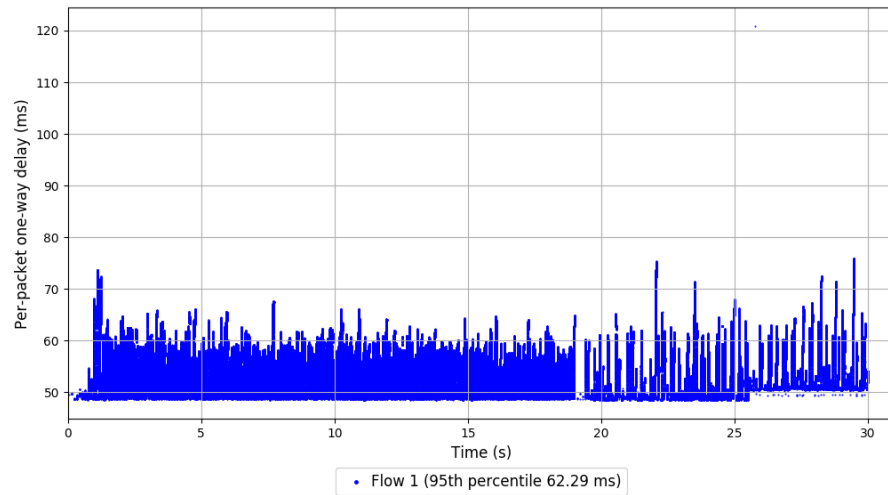
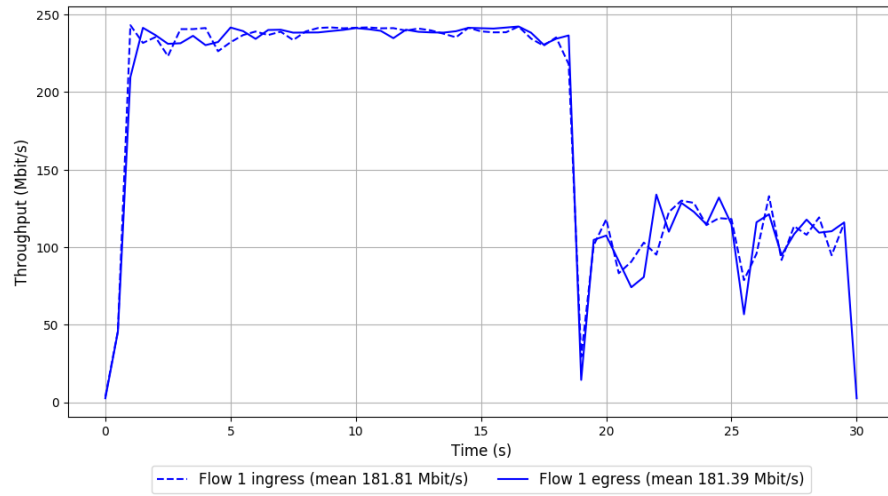
-- Flow 1:

Average throughput: 181.39 Mbit/s

95th percentile per-packet one-way delay: 62.292 ms

Loss rate: 0.22%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-01-30 22:18:36

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

Below is generated by plot.py at 2018-01-30 23:42:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.63 Mbit/s

95th percentile per-packet one-way delay: 62.938 ms

Loss rate: 0.00%

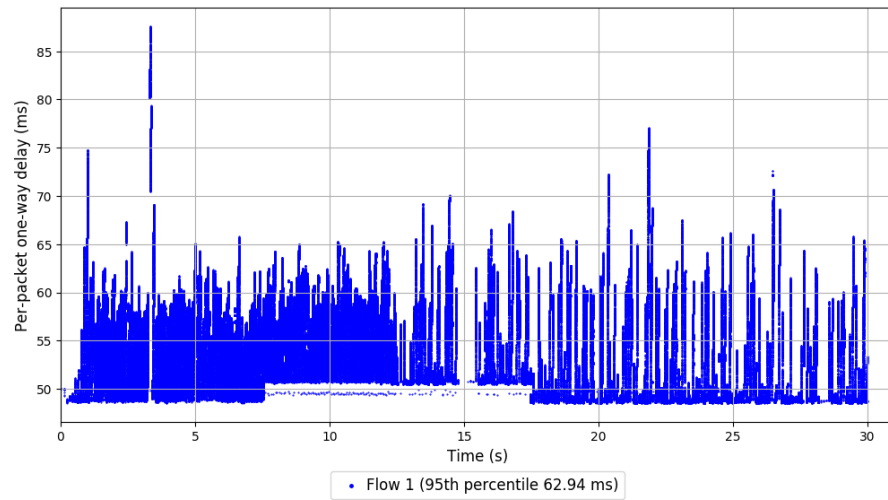
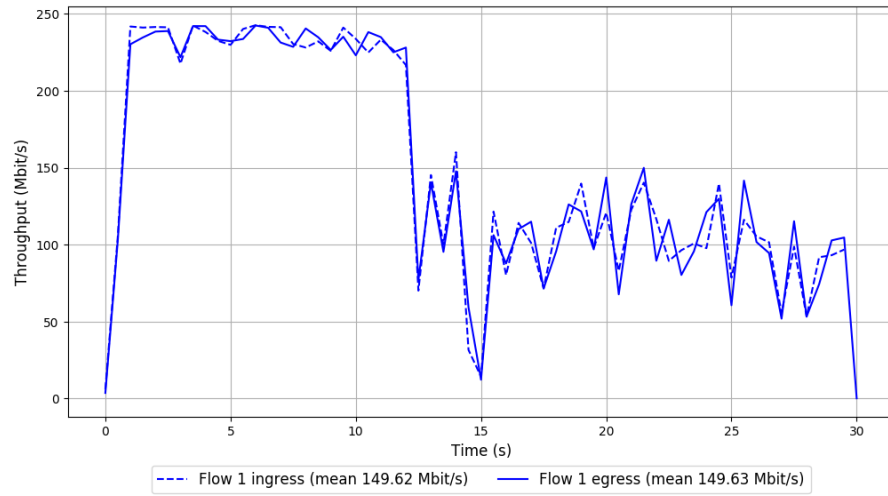
-- Flow 1:

Average throughput: 149.63 Mbit/s

95th percentile per-packet one-way delay: 62.938 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-01-30 20:04:54

End at: 2018-01-30 20:05:24

Below is generated by plot.py at 2018-01-30 23:42:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.97 Mbit/s

95th percentile per-packet one-way delay: 60.193 ms

Loss rate: 0.38%

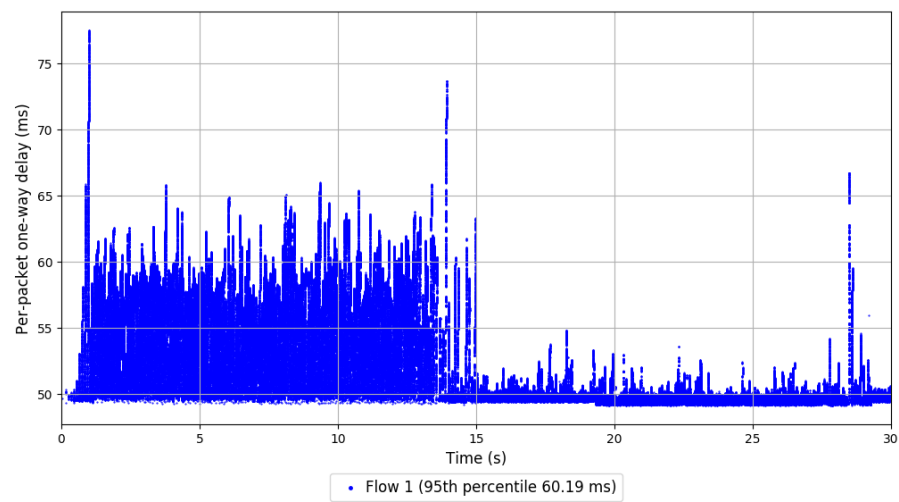
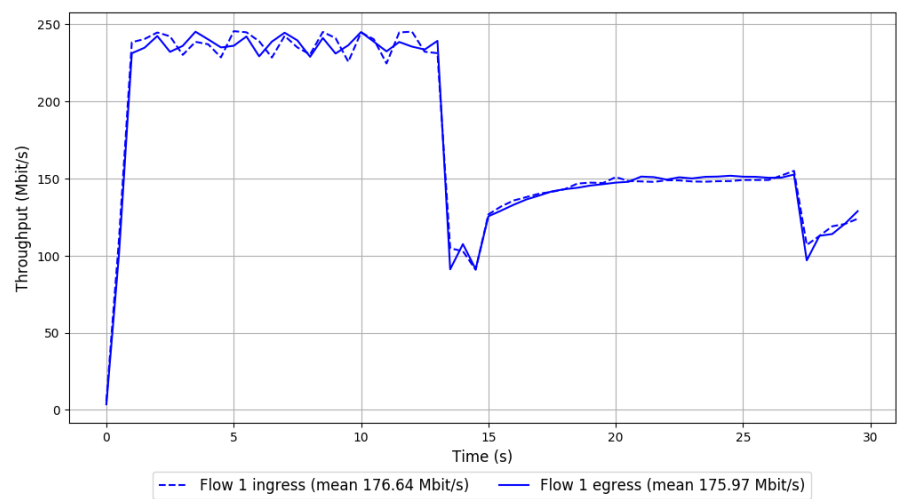
-- Flow 1:

Average throughput: 175.97 Mbit/s

95th percentile per-packet one-way delay: 60.193 ms

Loss rate: 0.38%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-01-30 20:18:41

End at: 2018-01-30 20:19:11

Below is generated by plot.py at 2018-01-30 23:42:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.36 Mbit/s

95th percentile per-packet one-way delay: 50.992 ms

Loss rate: 0.02%

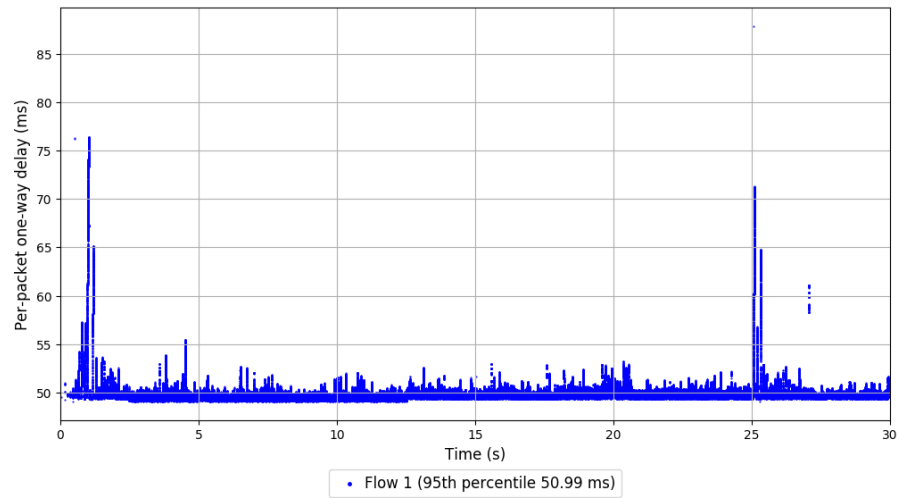
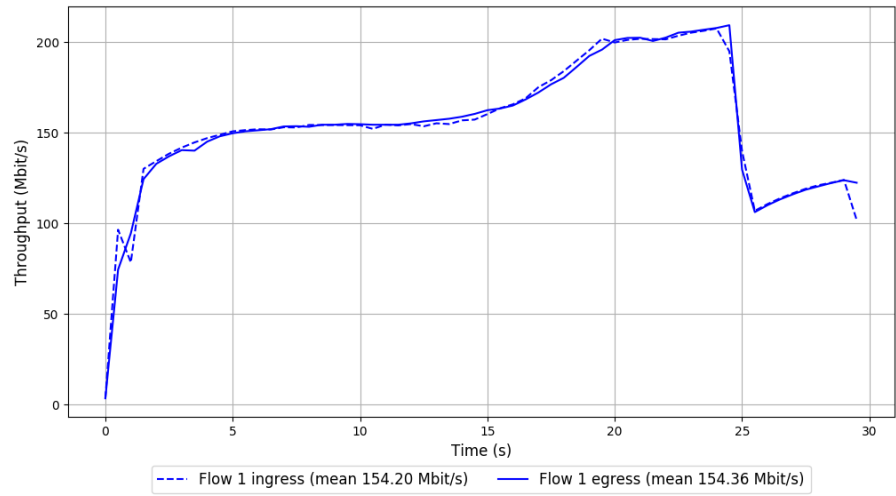
-- Flow 1:

Average throughput: 154.36 Mbit/s

95th percentile per-packet one-way delay: 50.992 ms

Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-01-30 20:32:47

End at: 2018-01-30 20:33:17

Below is generated by plot.py at 2018-01-30 23:43:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.53 Mbit/s

95th percentile per-packet one-way delay: 59.463 ms

Loss rate: 0.00%

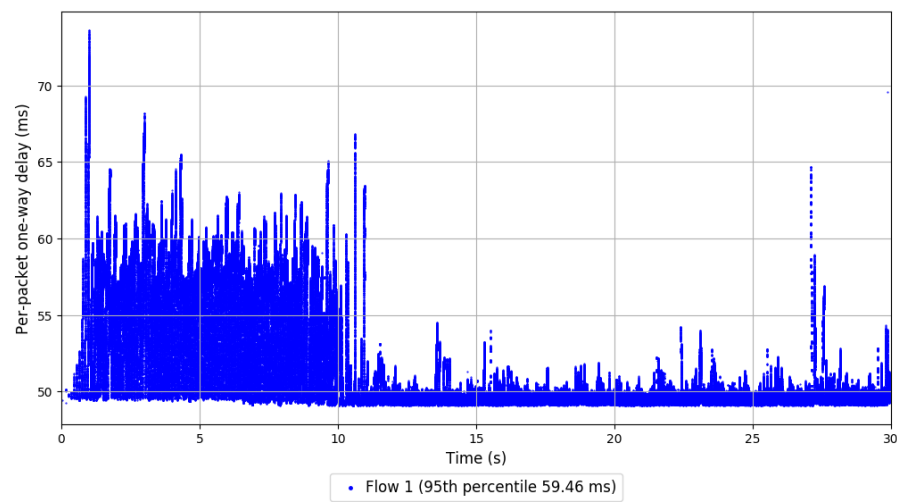
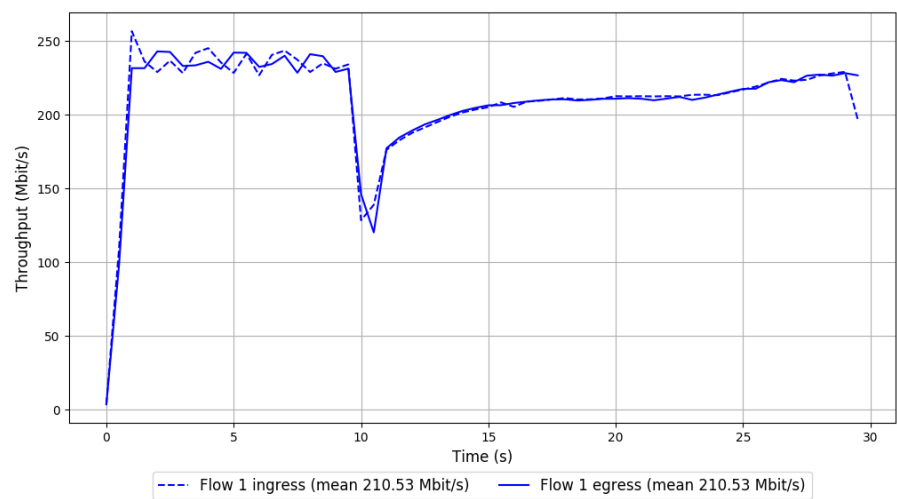
-- Flow 1:

Average throughput: 210.53 Mbit/s

95th percentile per-packet one-way delay: 59.463 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-01-30 20:46:38

End at: 2018-01-30 20:47:08

Below is generated by plot.py at 2018-01-30 23:43:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.65 Mbit/s

95th percentile per-packet one-way delay: 56.752 ms

Loss rate: 0.32%

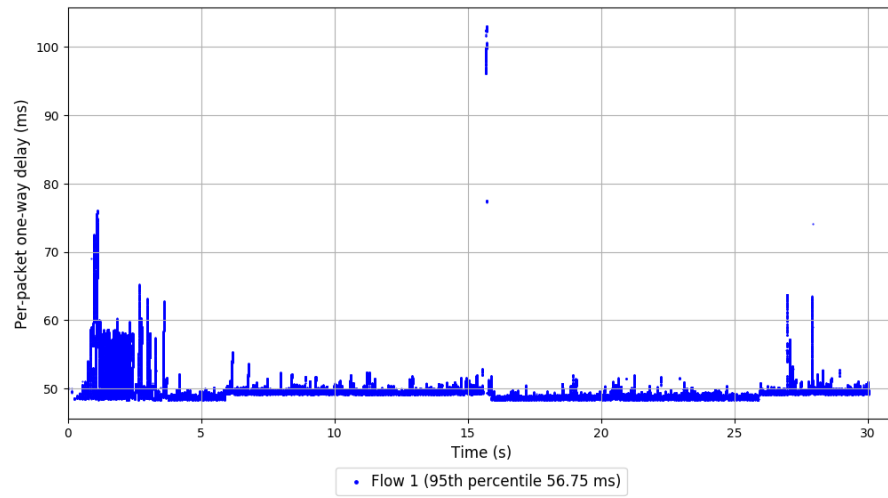
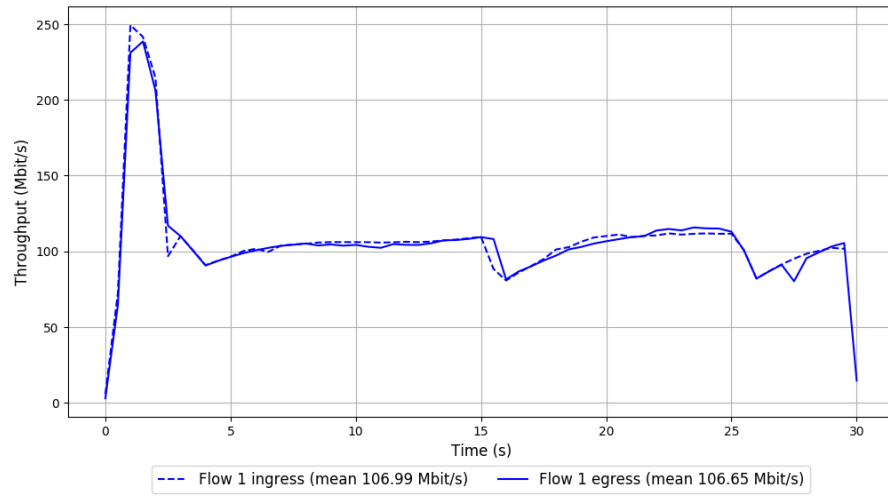
-- Flow 1:

Average throughput: 106.65 Mbit/s

95th percentile per-packet one-way delay: 56.752 ms

Loss rate: 0.32%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-01-30 21:00:18

End at: 2018-01-30 21:00:48

Below is generated by plot.py at 2018-01-30 23:43:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.09 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 0.03%

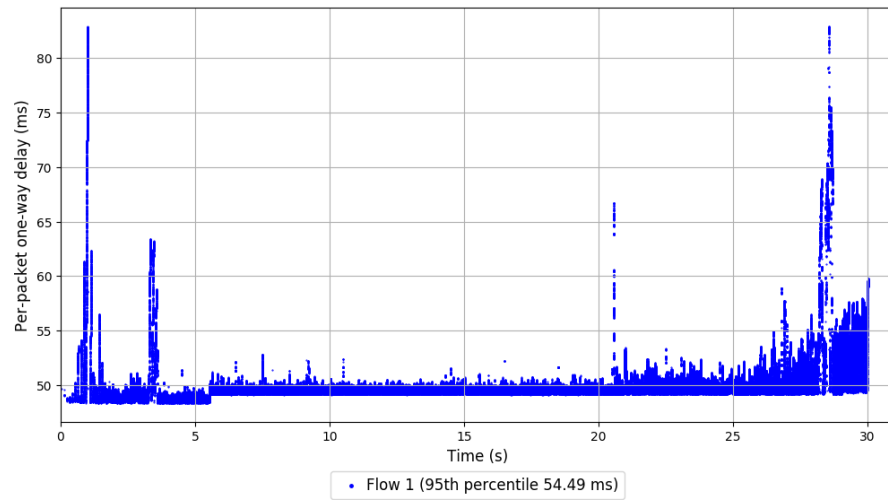
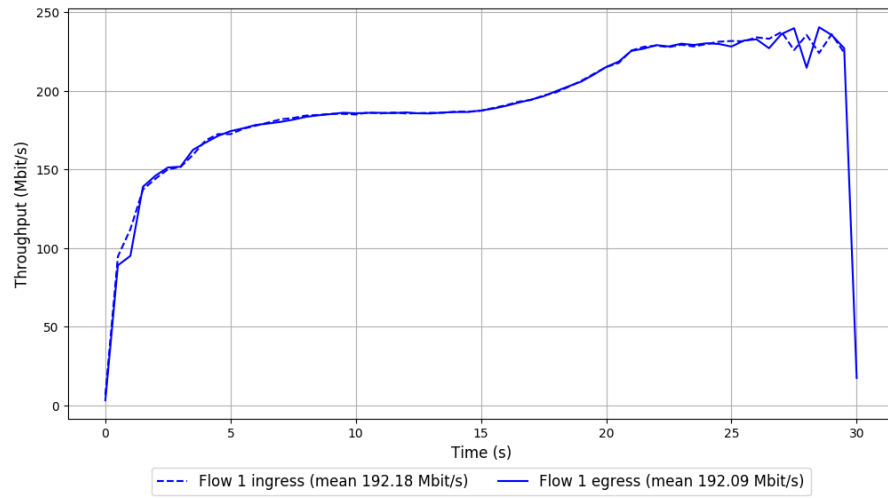
-- Flow 1:

Average throughput: 192.09 Mbit/s

95th percentile per-packet one-way delay: 54.488 ms

Loss rate: 0.03%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-01-30 21:13:46

End at: 2018-01-30 21:14:16

Below is generated by plot.py at 2018-01-30 23:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.64 Mbit/s

95th percentile per-packet one-way delay: 61.083 ms

Loss rate: 0.00%

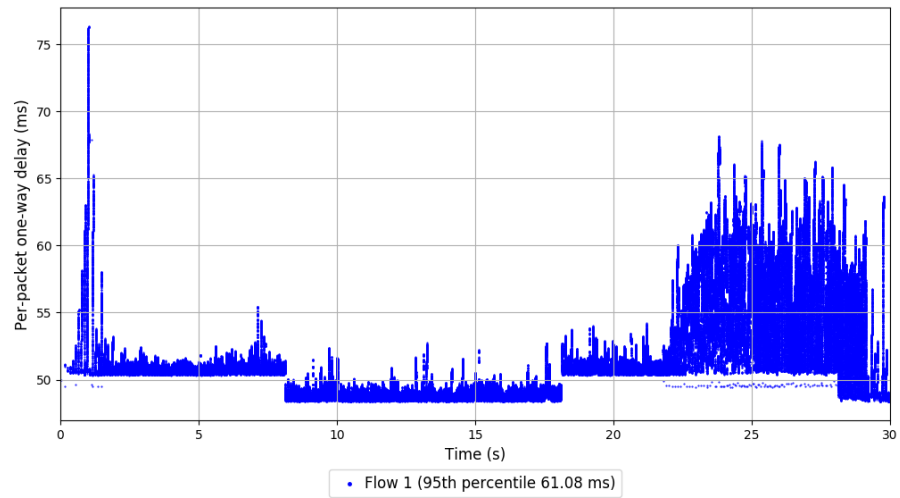
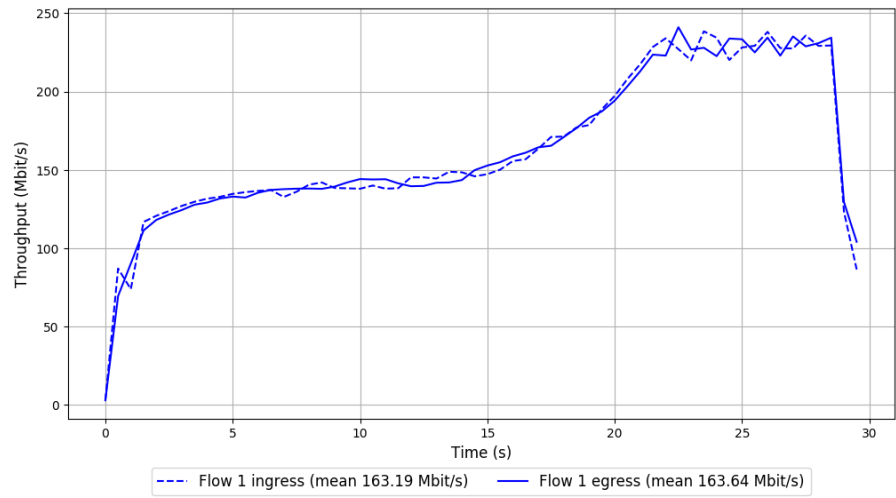
-- Flow 1:

Average throughput: 163.64 Mbit/s

95th percentile per-packet one-way delay: 61.083 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-01-30 21:27:57

End at: 2018-01-30 21:28:27

Below is generated by plot.py at 2018-01-30 23:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.77 Mbit/s

95th percentile per-packet one-way delay: 60.380 ms

Loss rate: 0.48%

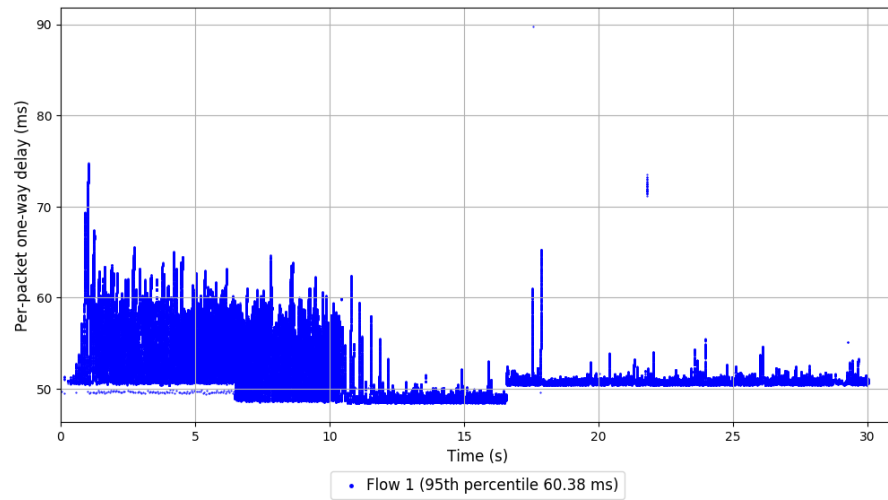
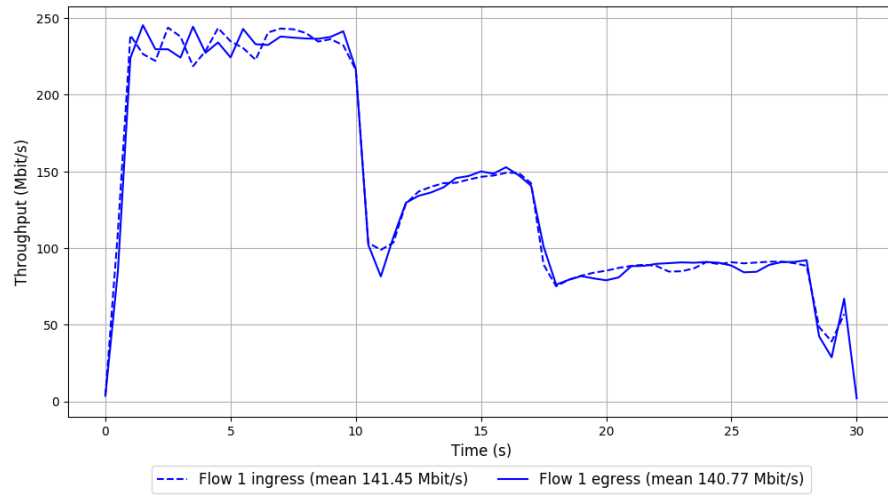
-- Flow 1:

Average throughput: 140.77 Mbit/s

95th percentile per-packet one-way delay: 60.380 ms

Loss rate: 0.48%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-01-30 21:41:31

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

Below is generated by plot.py at 2018-01-30 23:44:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.70 Mbit/s

95th percentile per-packet one-way delay: 60.477 ms

Loss rate: 0.15%

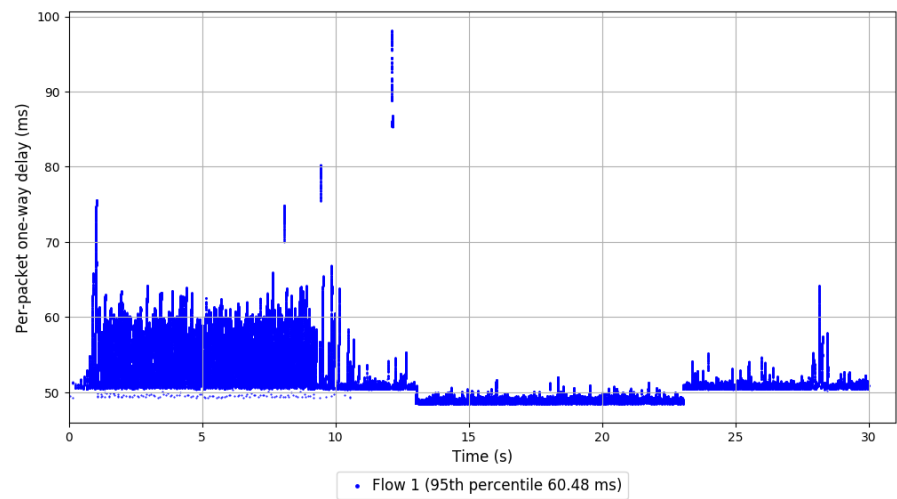
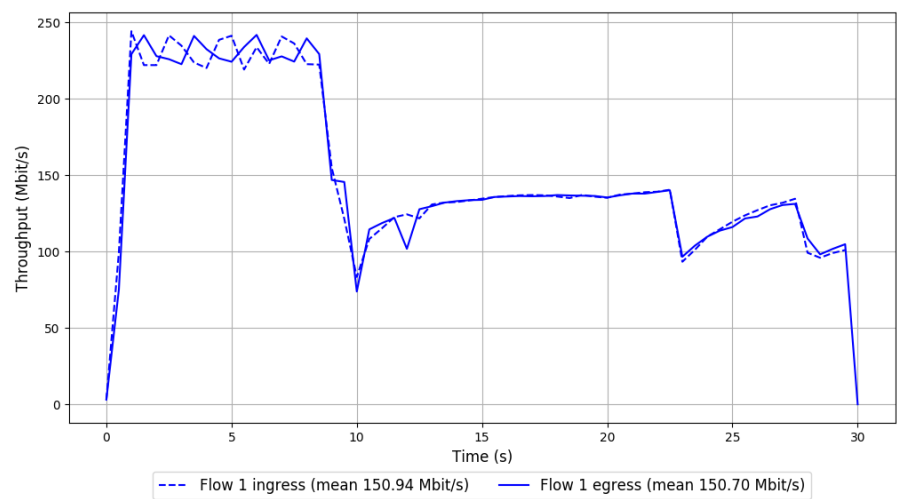
-- Flow 1:

Average throughput: 150.70 Mbit/s

95th percentile per-packet one-way delay: 60.477 ms

Loss rate: 0.15%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-01-30 21:55:10

End at: 2018-01-30 21:55:40

Below is generated by plot.py at 2018-01-30 23:44:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 144.33 Mbit/s

95th percentile per-packet one-way delay: 62.463 ms

Loss rate: 0.03%

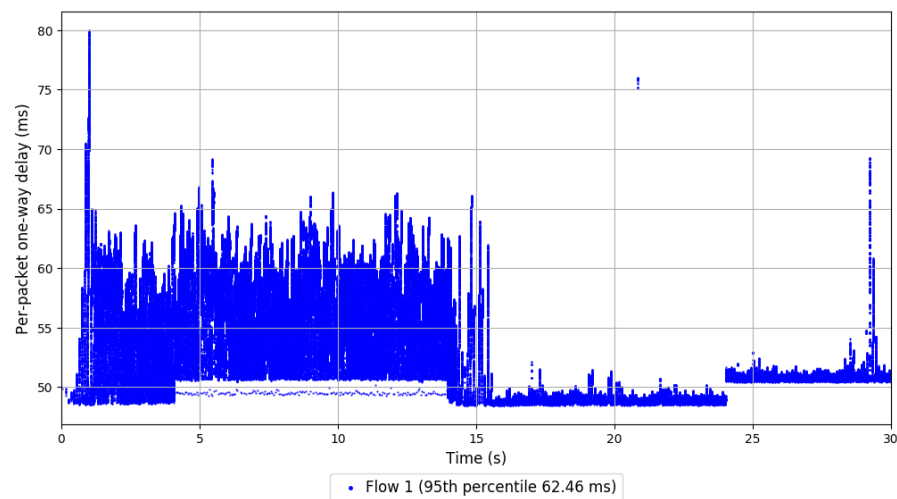
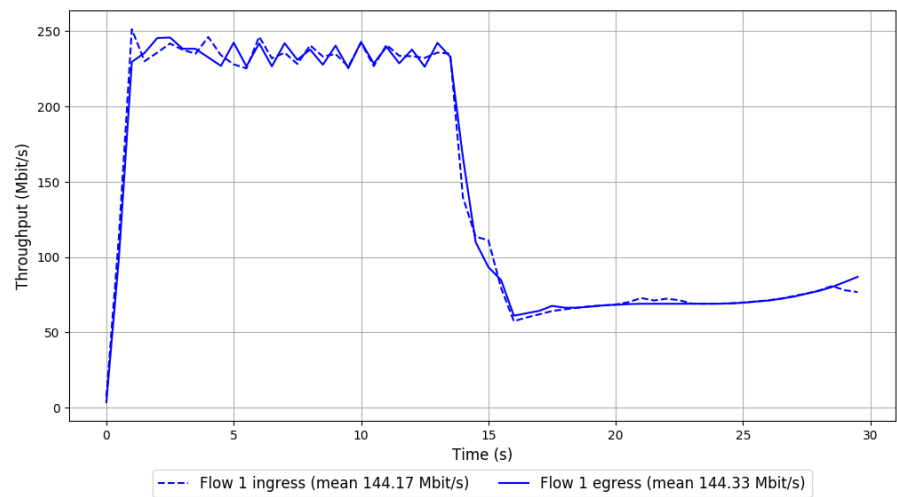
-- Flow 1:

Average throughput: 144.33 Mbit/s

95th percentile per-packet one-way delay: 62.463 ms

Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-01-30 22:08:53

End at: 2018-01-30 22:09:23

Below is generated by plot.py at 2018-01-30 23:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.30 Mbit/s

95th percentile per-packet one-way delay: 56.845 ms

Loss rate: 0.35%

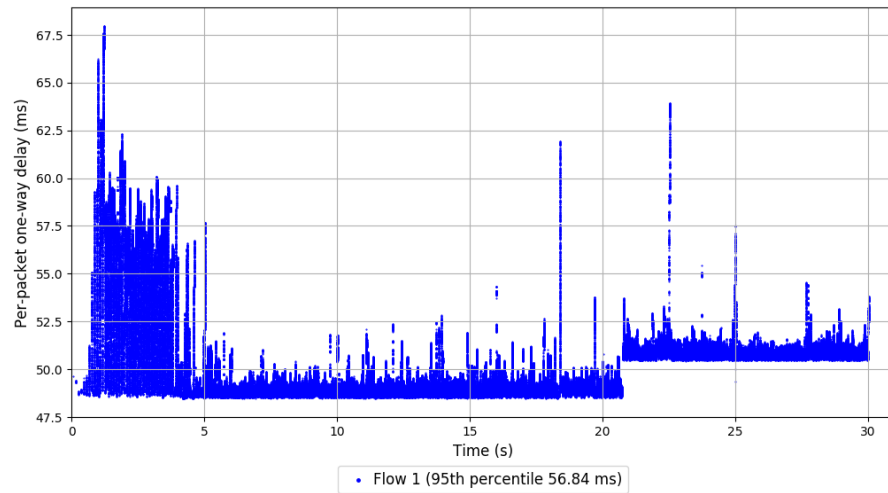
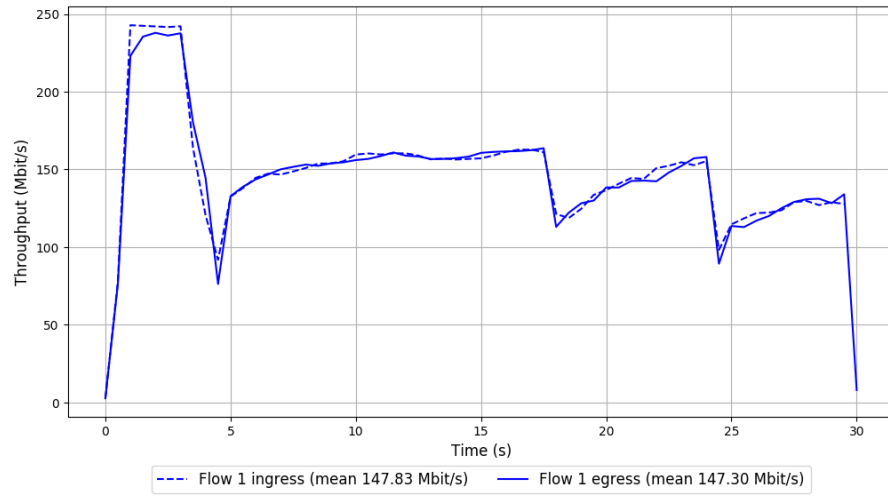
-- Flow 1:

Average throughput: 147.30 Mbit/s

95th percentile per-packet one-way delay: 56.845 ms

Loss rate: 0.35%

Run 10: Report of TCP Cubic — Data Link

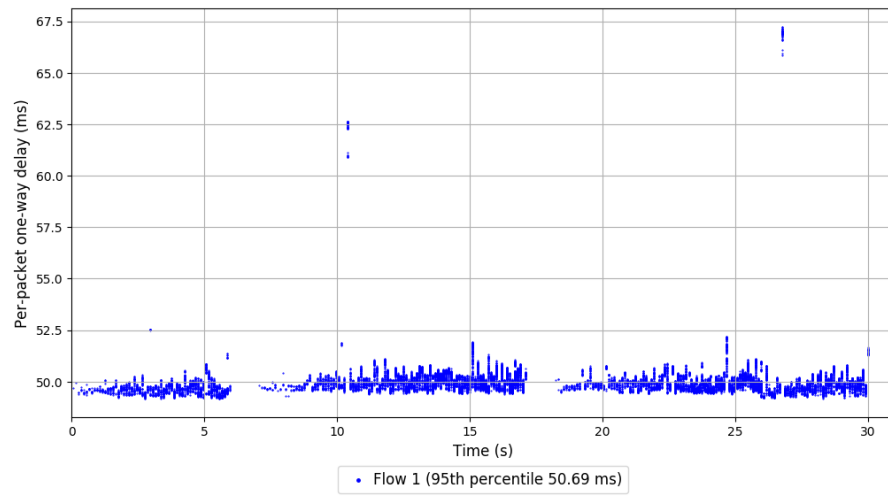
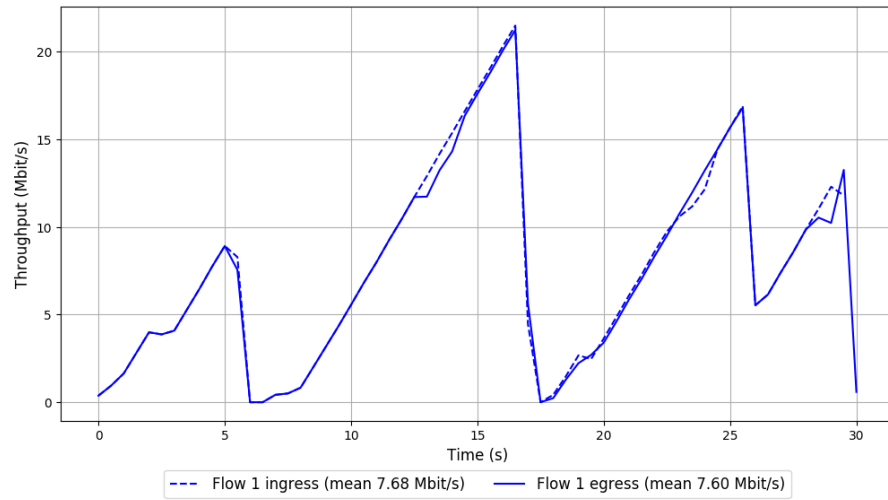


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-30 20:02:38
End at: 2018-01-30 20:03:08

# Below is generated by plot.py at 2018-01-30 23:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 50.688 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 7.60 Mbit/s
95th percentile per-packet one-way delay: 50.688 ms
Loss rate: 0.99%
```

Run 1: Report of LEDBAT — Data Link

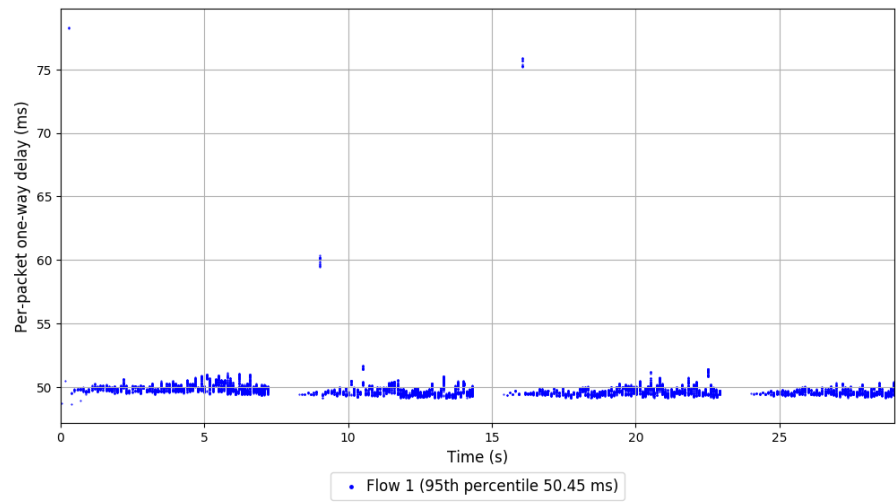
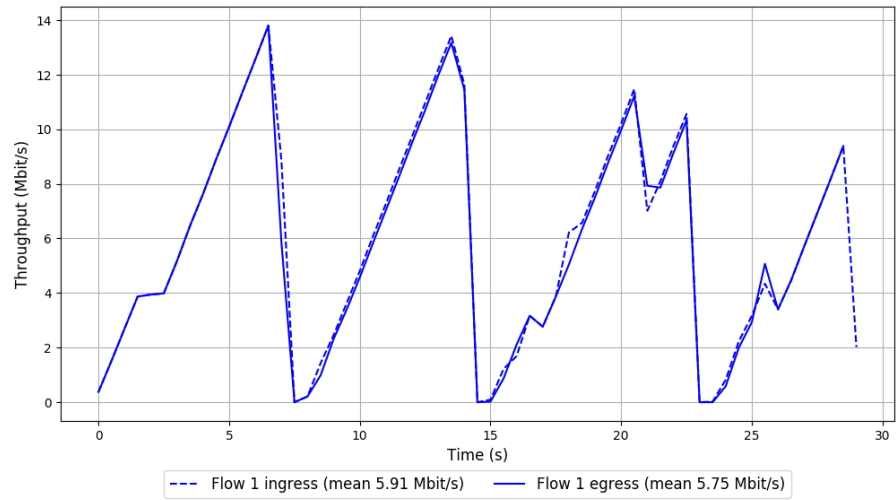


```
Run 2: Statistics of LEDBAT

Start at: 2018-01-30 20:16:27
End at: 2018-01-30 20:16:57

# Below is generated by plot.py at 2018-01-30 23:44:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.75 Mbit/s
95th percentile per-packet one-way delay: 50.447 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 5.75 Mbit/s
95th percentile per-packet one-way delay: 50.447 ms
Loss rate: 2.97%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-01-30 20:30:33

End at: 2018-01-30 20:31:03

Below is generated by plot.py at 2018-01-30 23:44:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 50.571 ms

Loss rate: 2.77%

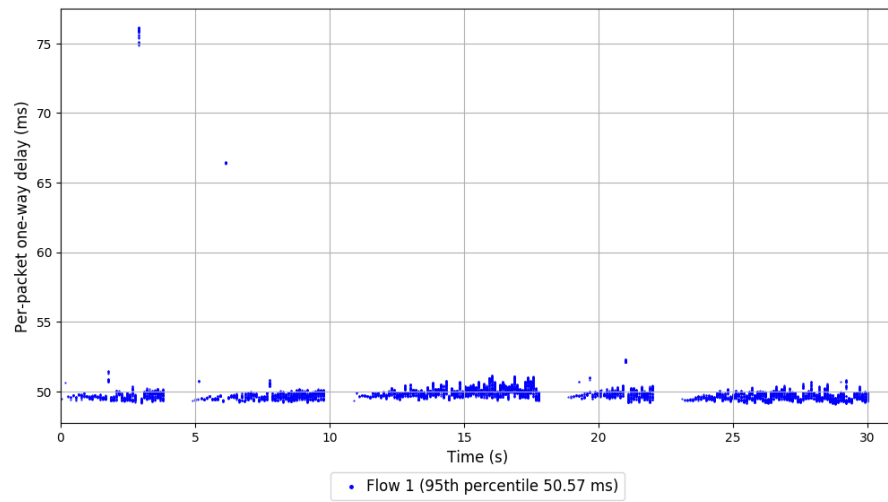
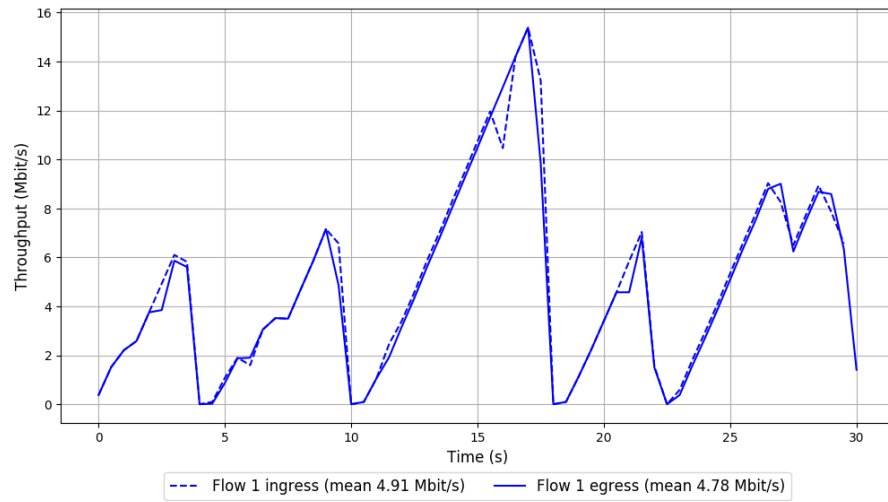
-- Flow 1:

Average throughput: 4.78 Mbit/s

95th percentile per-packet one-way delay: 50.571 ms

Loss rate: 2.77%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-01-30 20:44:23

End at: 2018-01-30 20:44:53

Below is generated by plot.py at 2018-01-30 23:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 5.45 Mbit/s

95th percentile per-packet one-way delay: 50.225 ms

Loss rate: 1.85%

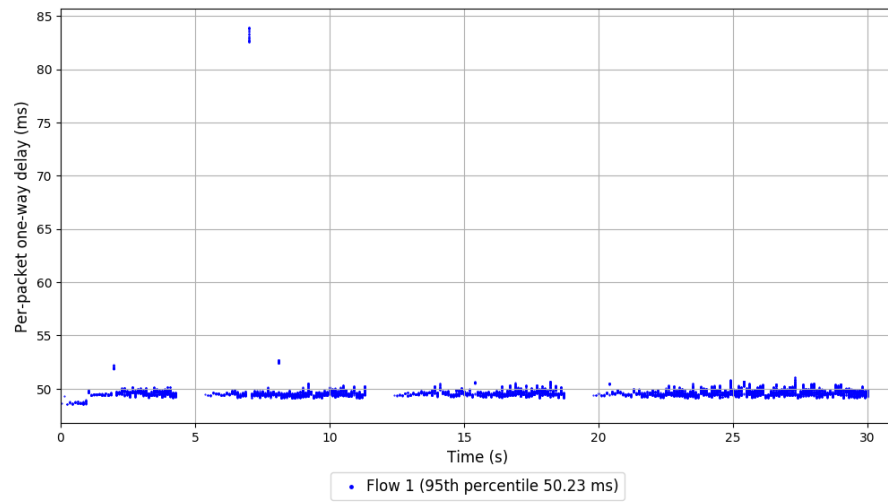
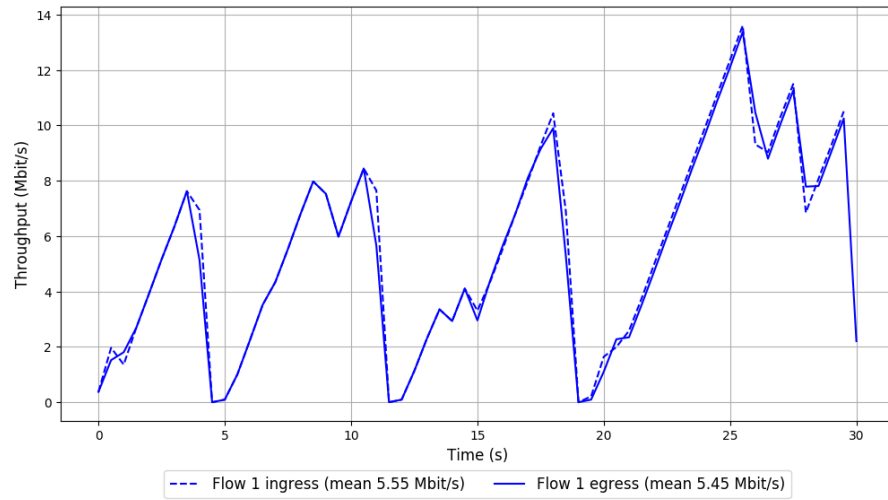
-- Flow 1:

Average throughput: 5.45 Mbit/s

95th percentile per-packet one-way delay: 50.225 ms

Loss rate: 1.85%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-01-30 20:58:02

End at: 2018-01-30 20:58:32

Below is generated by plot.py at 2018-01-30 23:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 50.218 ms

Loss rate: 0.00%

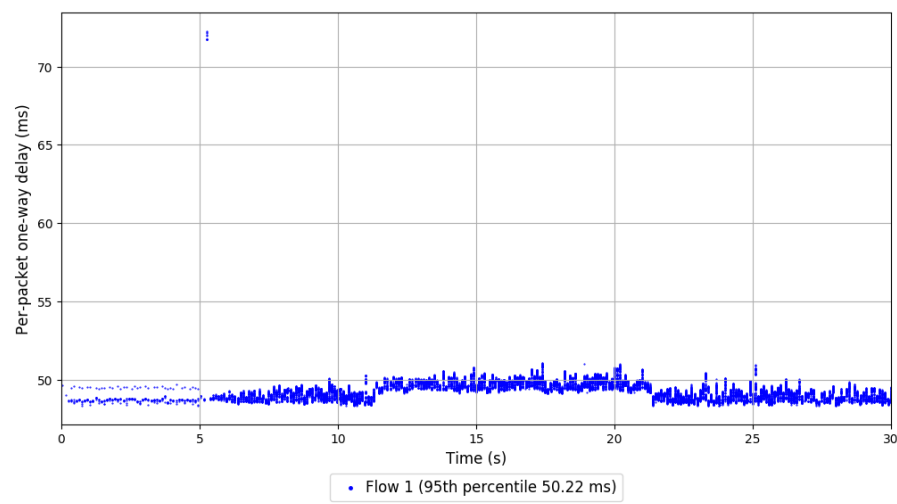
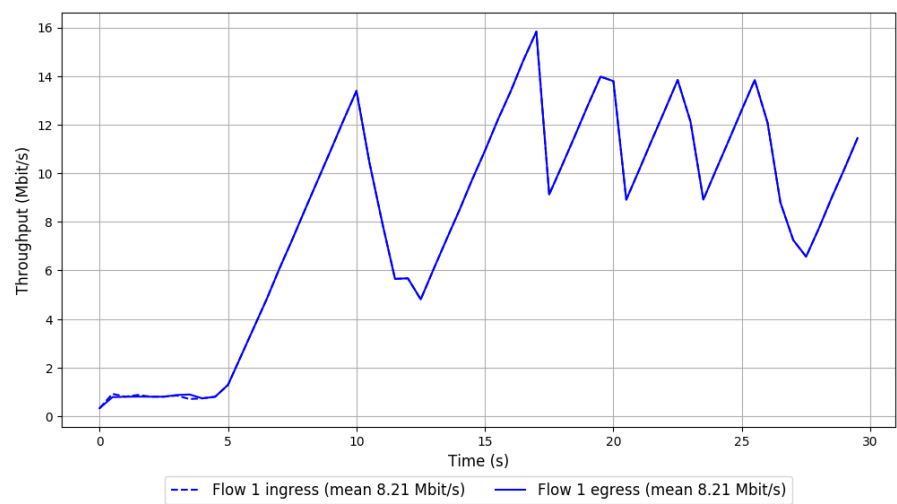
-- Flow 1:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 50.218 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-01-30 21:11:40

End at: 2018-01-30 21:12:10

Below is generated by plot.py at 2018-01-30 23:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.54 Mbit/s

95th percentile per-packet one-way delay: 50.146 ms

Loss rate: 0.00%

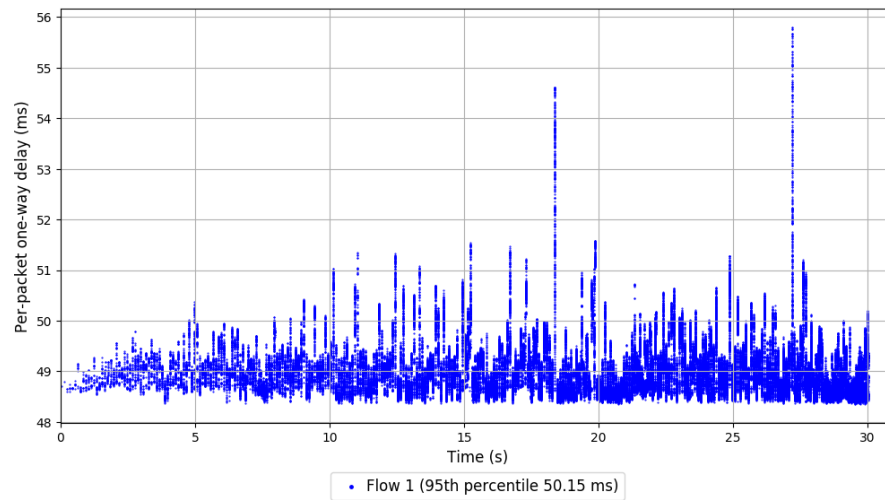
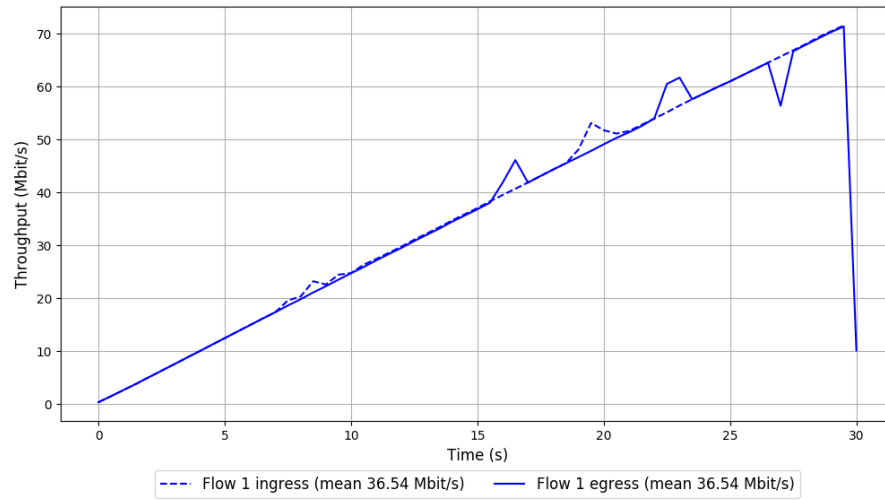
-- Flow 1:

Average throughput: 36.54 Mbit/s

95th percentile per-packet one-way delay: 50.146 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-01-30 21:25:43

End at: 2018-01-30 21:26:13

Below is generated by plot.py at 2018-01-30 23:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 51.621 ms

Loss rate: 1.49%

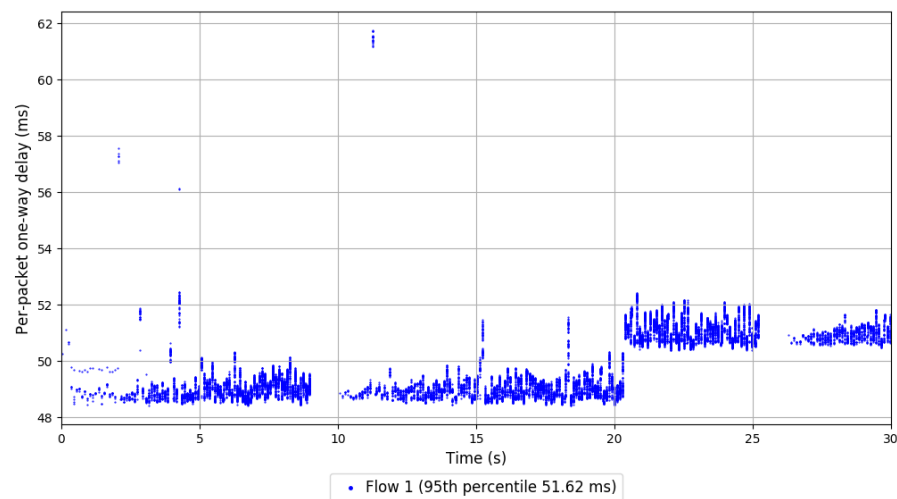
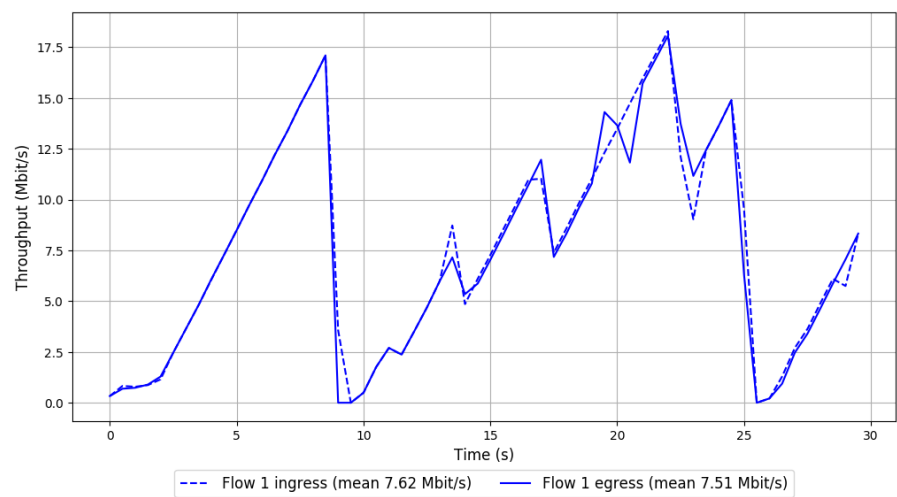
-- Flow 1:

Average throughput: 7.51 Mbit/s

95th percentile per-packet one-way delay: 51.621 ms

Loss rate: 1.49%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-01-30 21:39:18

End at: 2018-01-30 21:39:48

Below is generated by plot.py at 2018-01-30 23:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 51.586 ms

Loss rate: 0.77%

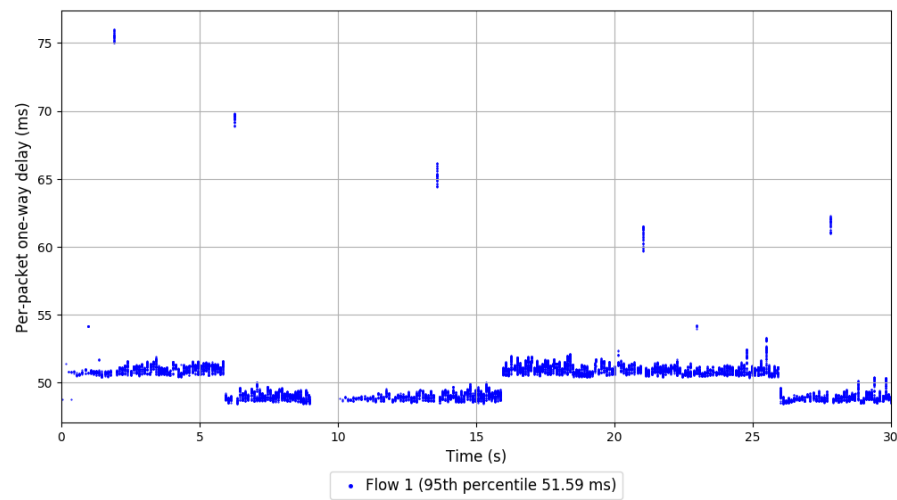
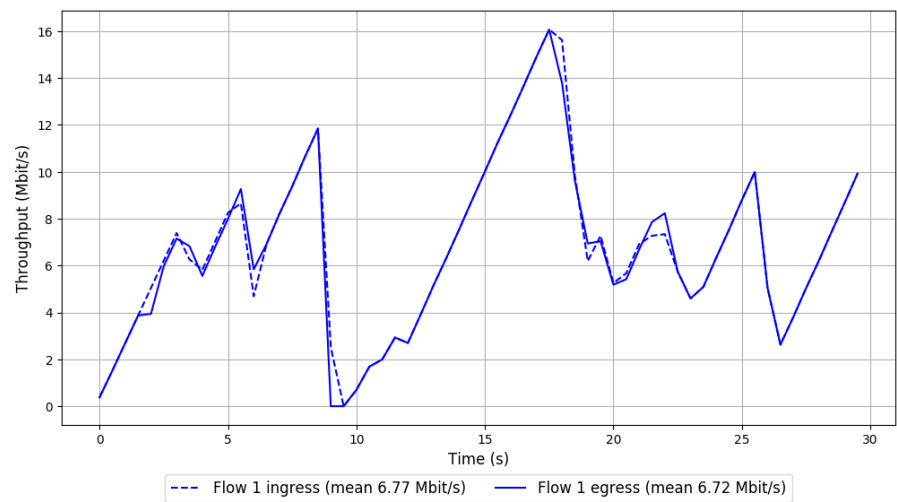
-- Flow 1:

Average throughput: 6.72 Mbit/s

95th percentile per-packet one-way delay: 51.586 ms

Loss rate: 0.77%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-01-30 21:52:56

End at: 2018-01-30 21:53:26

Below is generated by plot.py at 2018-01-30 23:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 51.702 ms

Loss rate: 0.00%

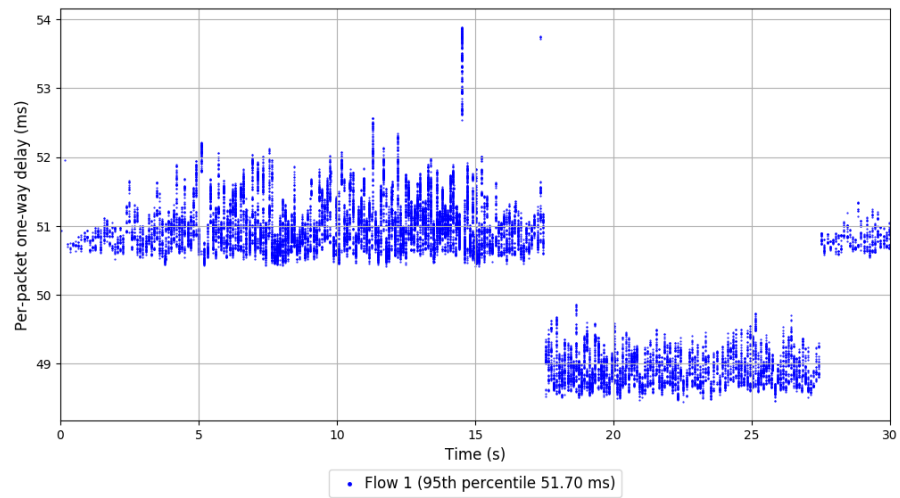
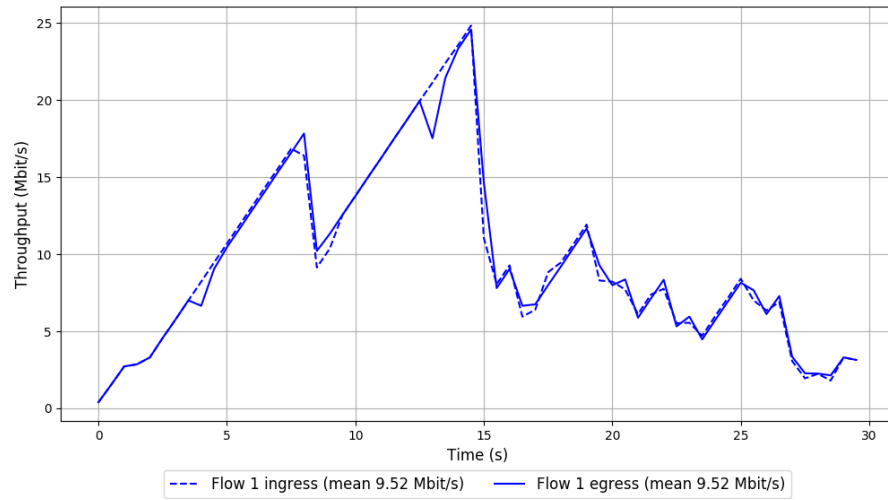
-- Flow 1:

Average throughput: 9.52 Mbit/s

95th percentile per-packet one-way delay: 51.702 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-01-30 22:06:38

End at: 2018-01-30 22:07:09

Below is generated by plot.py at 2018-01-30 23:44:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.38 Mbit/s

95th percentile per-packet one-way delay: 51.487 ms

Loss rate: 0.52%

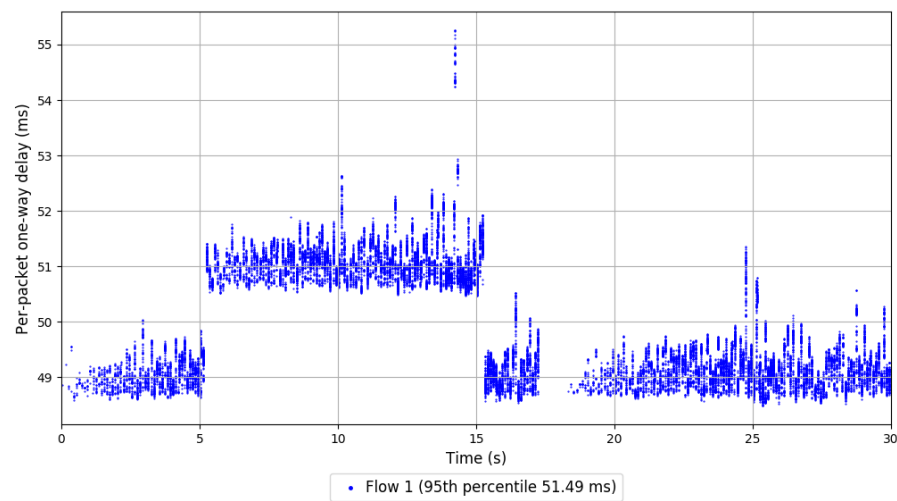
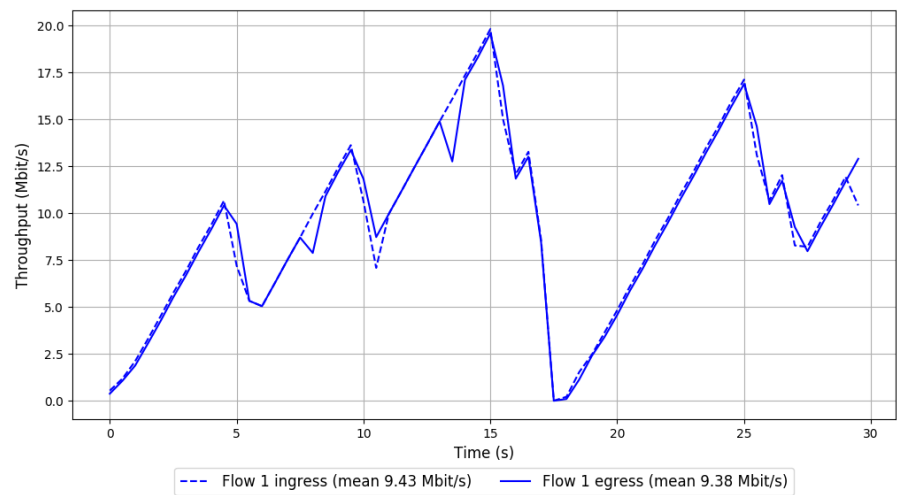
-- Flow 1:

Average throughput: 9.38 Mbit/s

95th percentile per-packet one-way delay: 51.487 ms

Loss rate: 0.52%

Run 10: Report of LEDBAT — Data Link

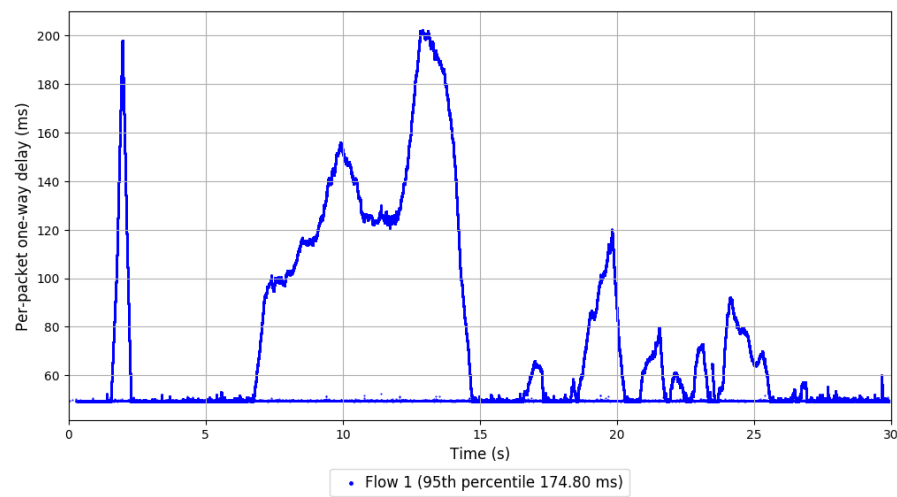
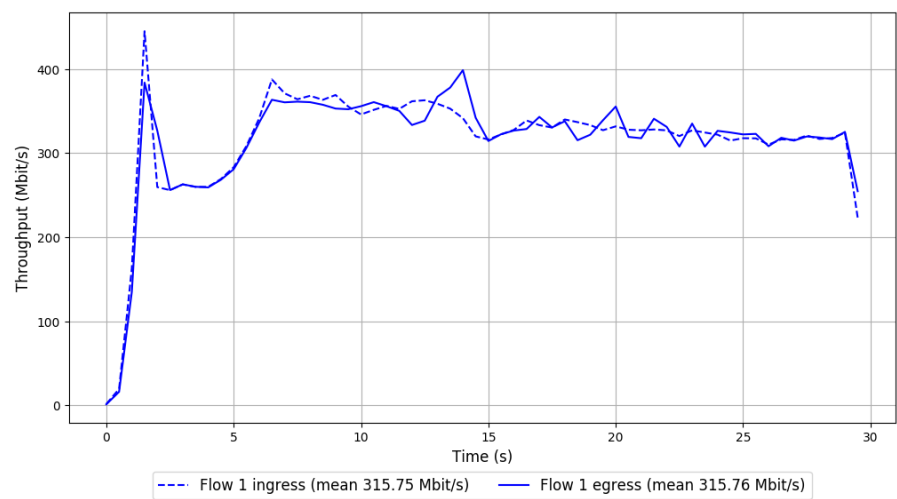


```
Run 1: Statistics of PCC

Start at: 2018-01-30 20:03:15
End at: 2018-01-30 20:03:45

# Below is generated by plot.py at 2018-01-30 23:49:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.76 Mbit/s
95th percentile per-packet one-way delay: 174.796 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 315.76 Mbit/s
95th percentile per-packet one-way delay: 174.796 ms
Loss rate: 0.00%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-30 20:17:04

End at: 2018-01-30 20:17:34

Below is generated by plot.py at 2018-01-30 23:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 322.74 Mbit/s

95th percentile per-packet one-way delay: 100.738 ms

Loss rate: 0.05%

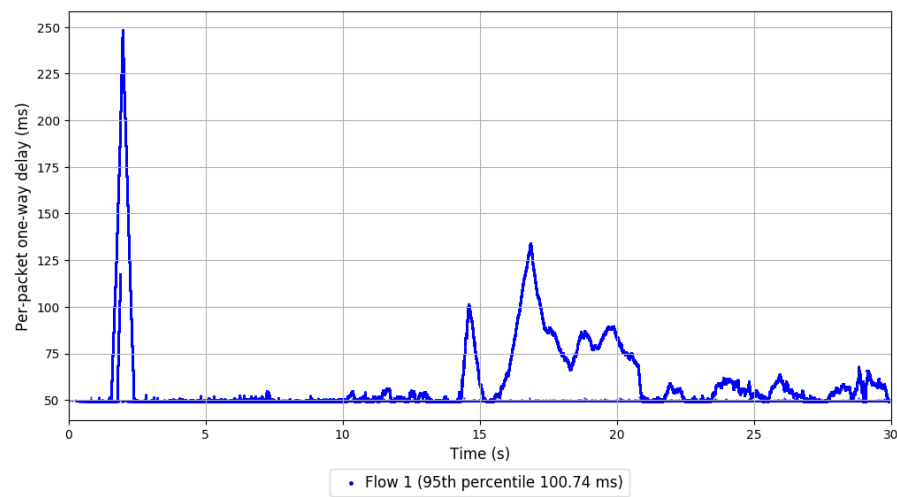
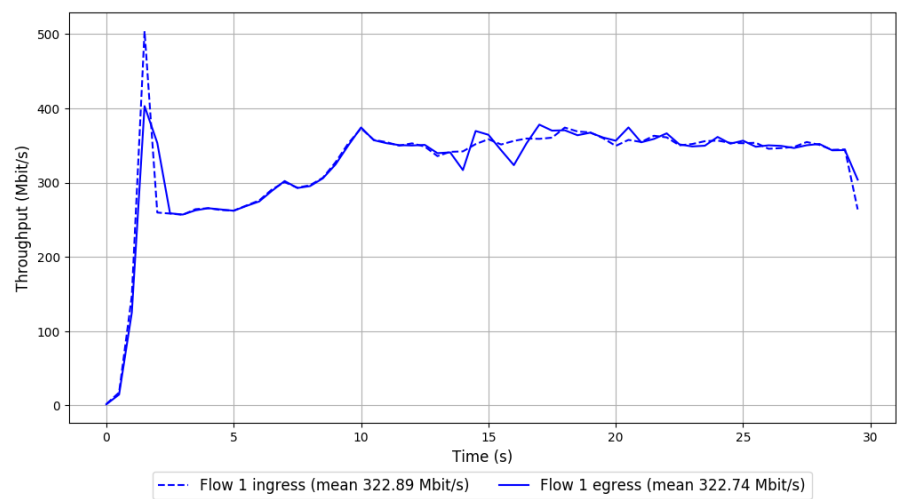
-- Flow 1:

Average throughput: 322.74 Mbit/s

95th percentile per-packet one-way delay: 100.738 ms

Loss rate: 0.05%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-01-30 20:31:10

End at: 2018-01-30 20:31:40

Below is generated by plot.py at 2018-01-30 23:49:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.13 Mbit/s

95th percentile per-packet one-way delay: 193.768 ms

Loss rate: 0.83%

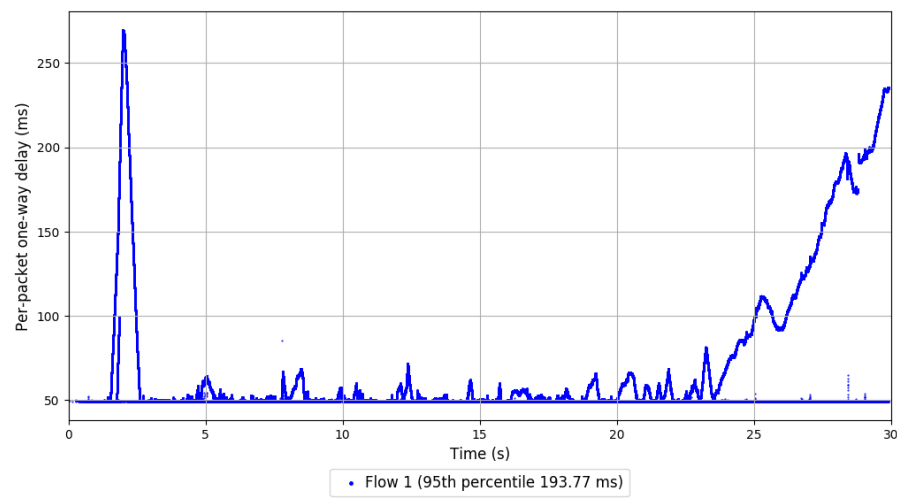
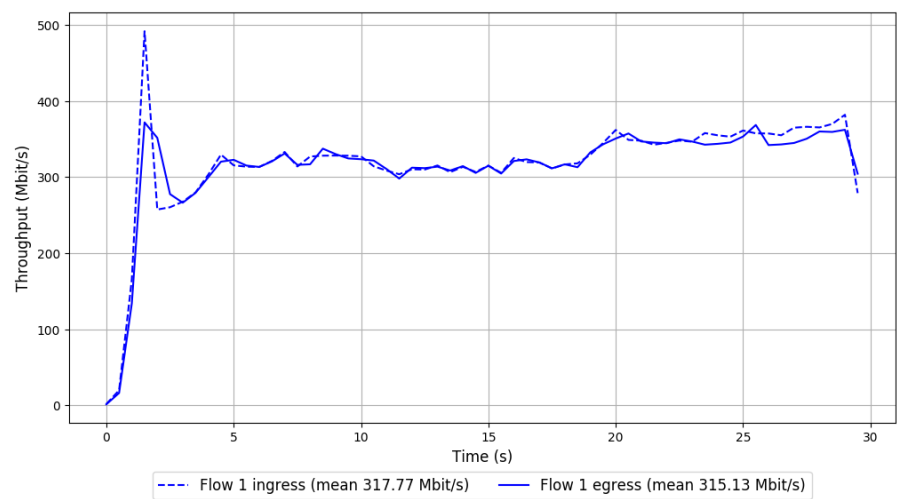
-- Flow 1:

Average throughput: 315.13 Mbit/s

95th percentile per-packet one-way delay: 193.768 ms

Loss rate: 0.83%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-01-30 20:45:00

End at: 2018-01-30 20:45:30

Below is generated by plot.py at 2018-01-30 23:50:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.20 Mbit/s

95th percentile per-packet one-way delay: 150.805 ms

Loss rate: 0.20%

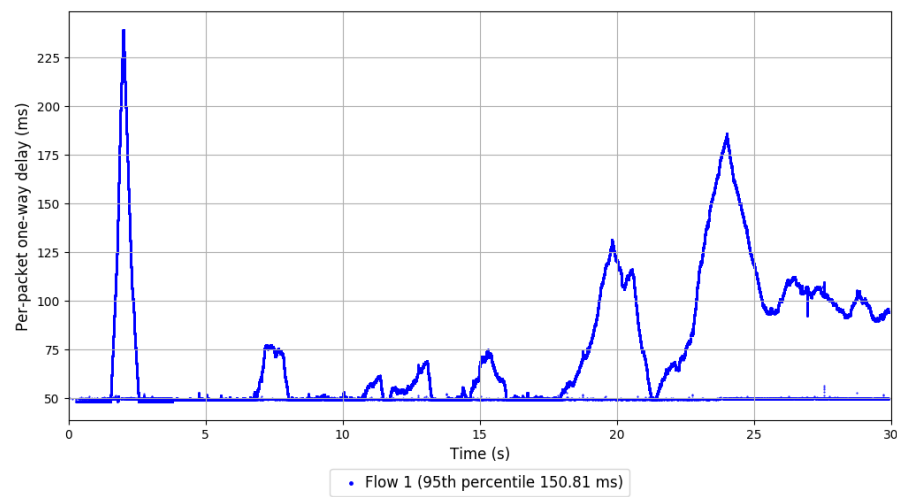
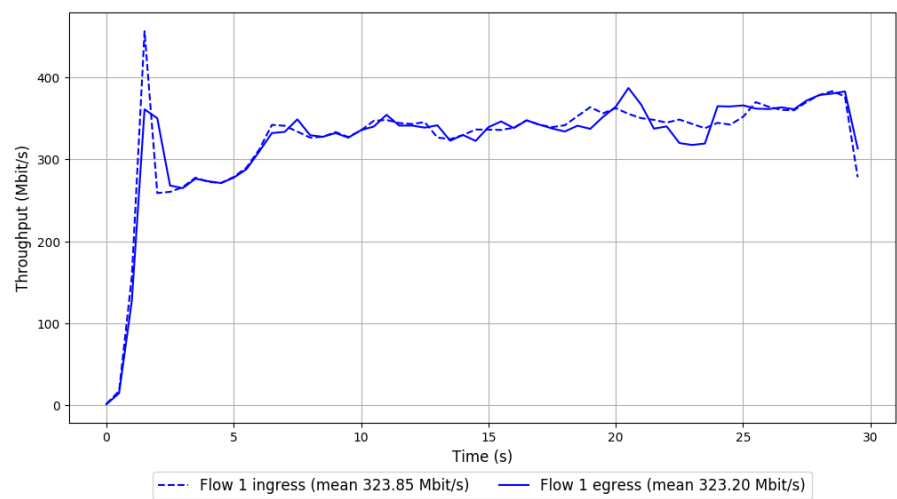
-- Flow 1:

Average throughput: 323.20 Mbit/s

95th percentile per-packet one-way delay: 150.805 ms

Loss rate: 0.20%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-01-30 20:58:40

End at: 2018-01-30 20:59:10

Below is generated by plot.py at 2018-01-30 23:50:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.12 Mbit/s

95th percentile per-packet one-way delay: 112.318 ms

Loss rate: 0.00%

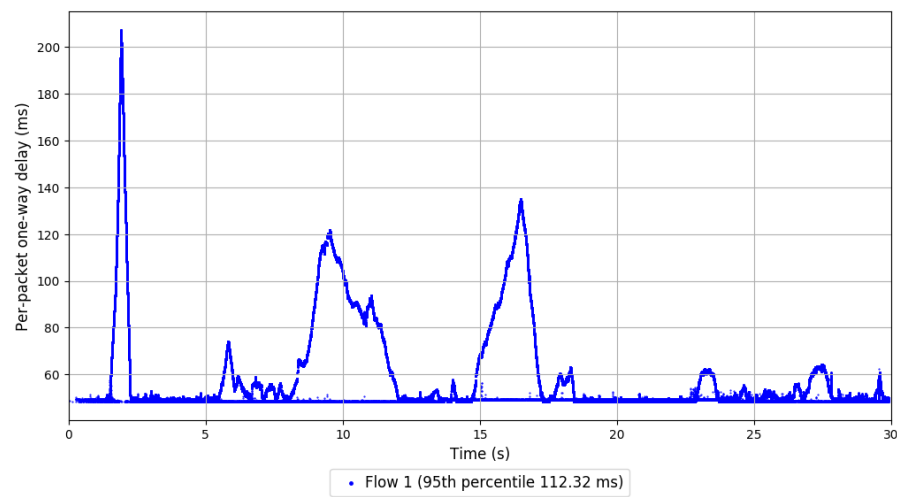
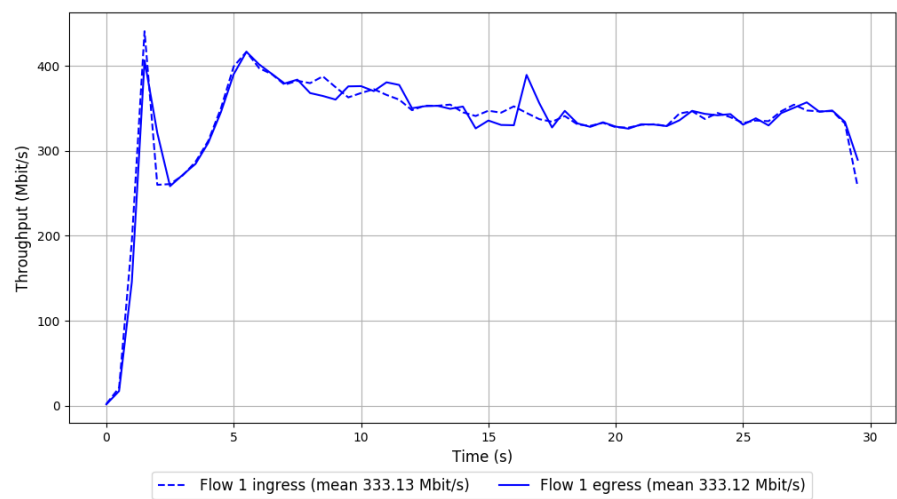
-- Flow 1:

Average throughput: 333.12 Mbit/s

95th percentile per-packet one-way delay: 112.318 ms

Loss rate: 0.00%

Run 5: Report of PCC — Data Link

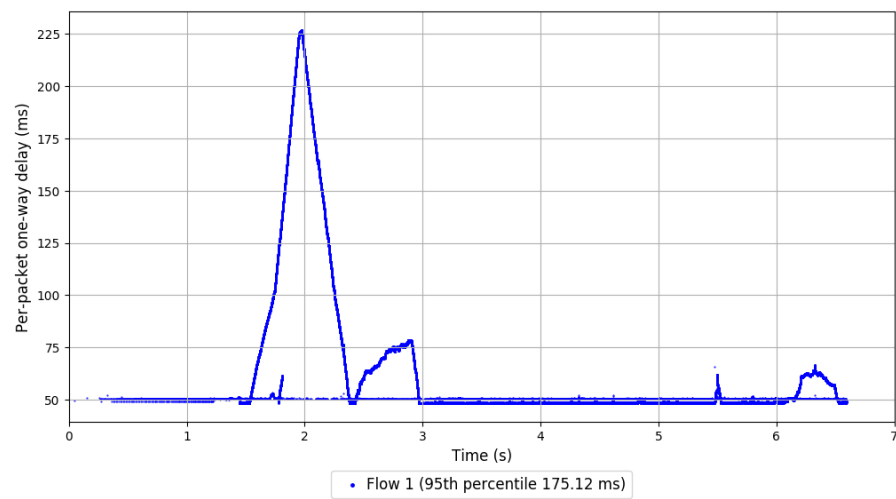
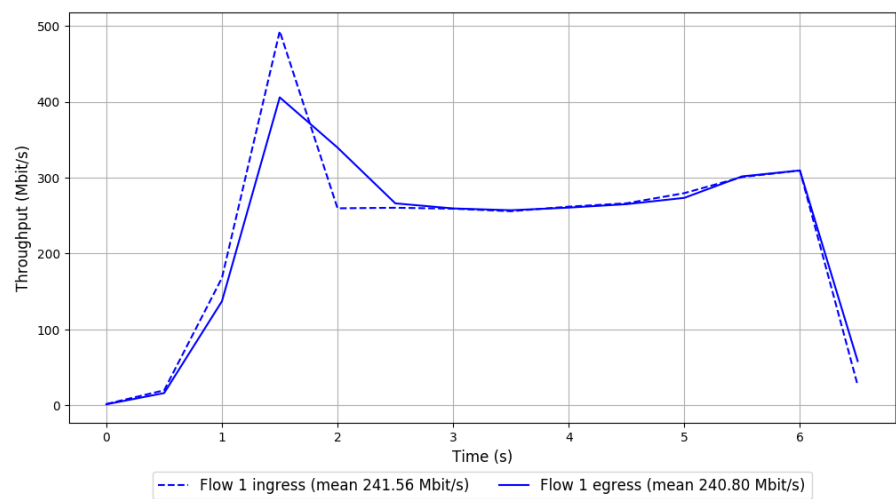


Run 6: Statistics of PCC

Start at: 2018-01-30 21:12:19

End at: 2018-01-30 21:12:49

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

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

End at: 2018-01-30 21:26:51

Below is generated by plot.py at 2018-01-30 23:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.18 Mbit/s

95th percentile per-packet one-way delay: 102.319 ms

Loss rate: 0.08%

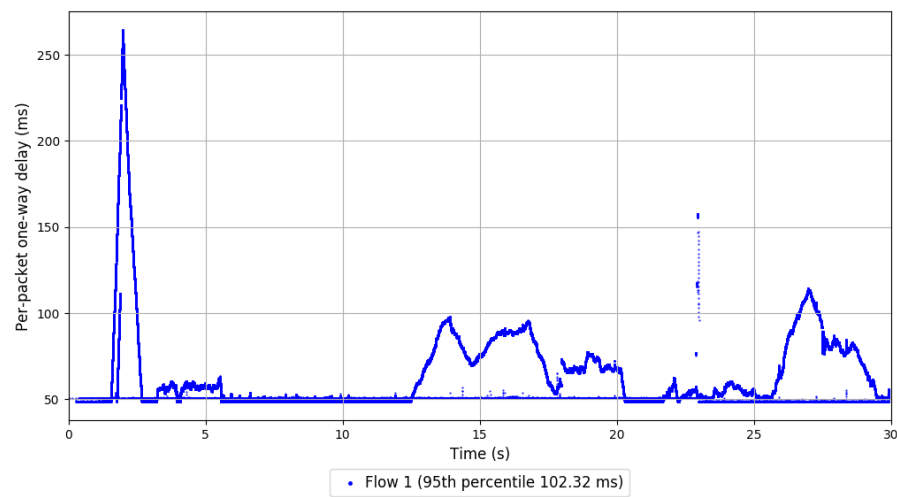
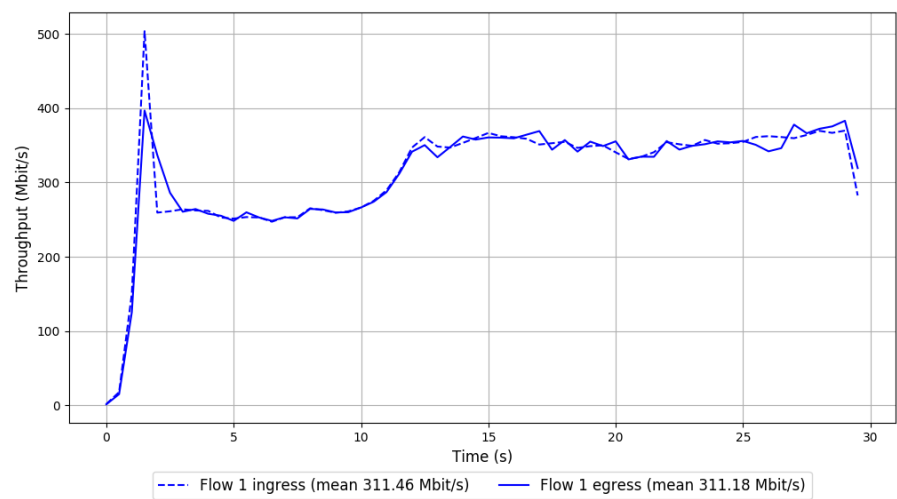
-- Flow 1:

Average throughput: 311.18 Mbit/s

95th percentile per-packet one-way delay: 102.319 ms

Loss rate: 0.08%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-01-30 21:39:55

End at: 2018-01-30 21:40:25

Below is generated by plot.py at 2018-01-30 23:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.65 Mbit/s

95th percentile per-packet one-way delay: 80.750 ms

Loss rate: 0.10%

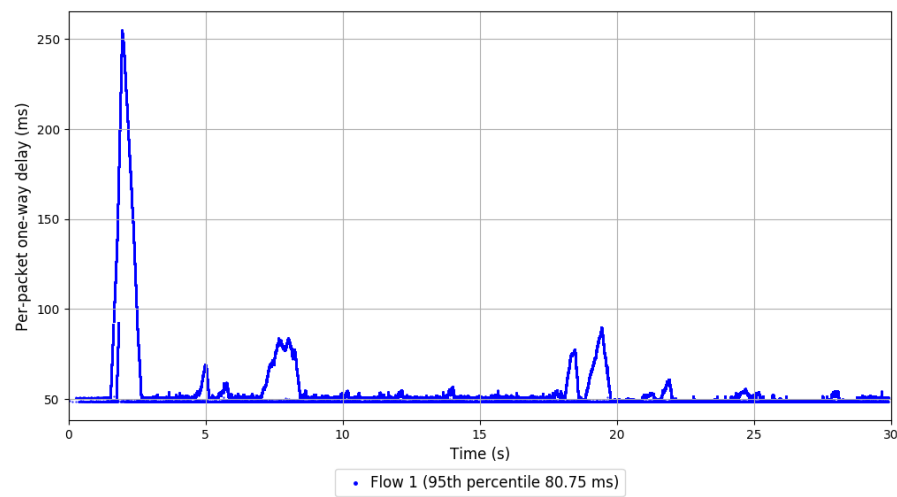
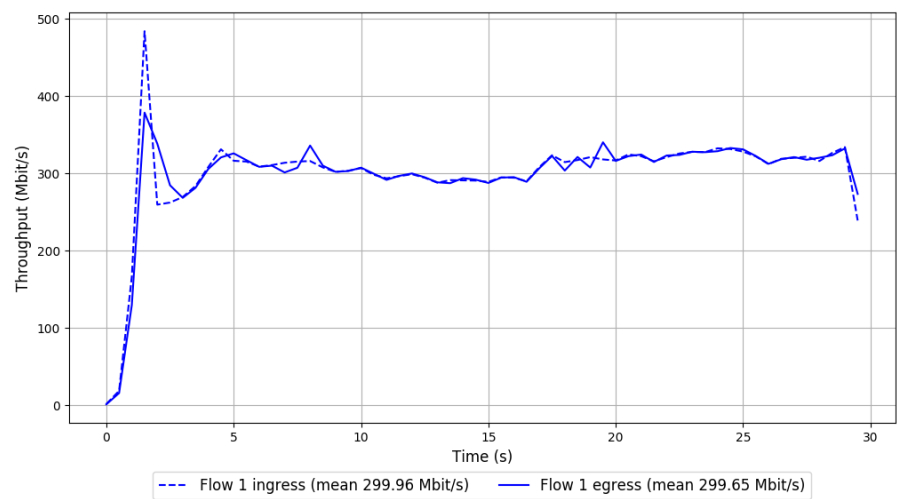
-- Flow 1:

Average throughput: 299.65 Mbit/s

95th percentile per-packet one-way delay: 80.750 ms

Loss rate: 0.10%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-01-30 21:53:34

End at: 2018-01-30 21:54:04

Below is generated by plot.py at 2018-01-30 23:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.53 Mbit/s

95th percentile per-packet one-way delay: 78.686 ms

Loss rate: 0.09%

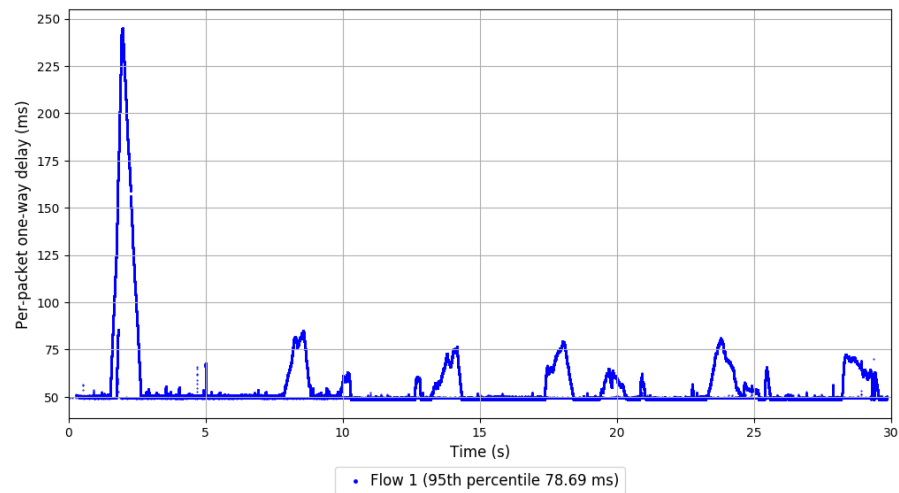
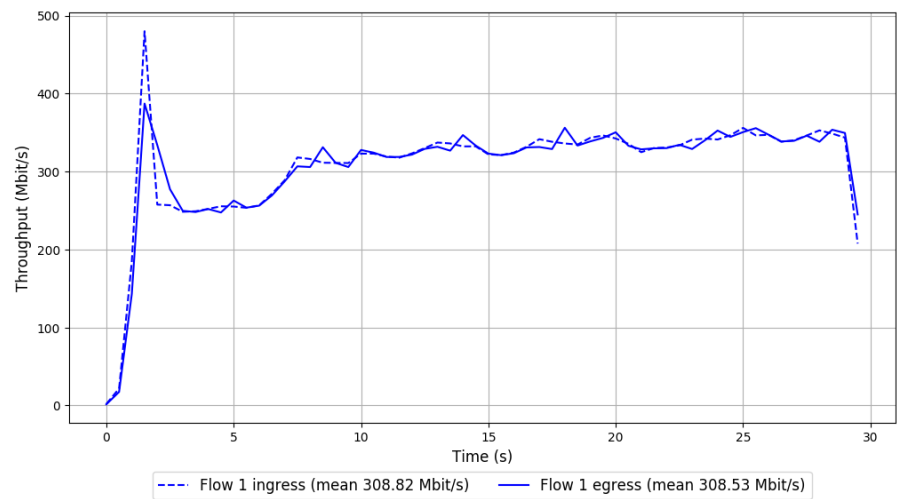
-- Flow 1:

Average throughput: 308.53 Mbit/s

95th percentile per-packet one-way delay: 78.686 ms

Loss rate: 0.09%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-01-30 22:07:16

End at: 2018-01-30 22:07:46

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.36 Mbit/s

95th percentile per-packet one-way delay: 146.570 ms

Loss rate: 0.05%

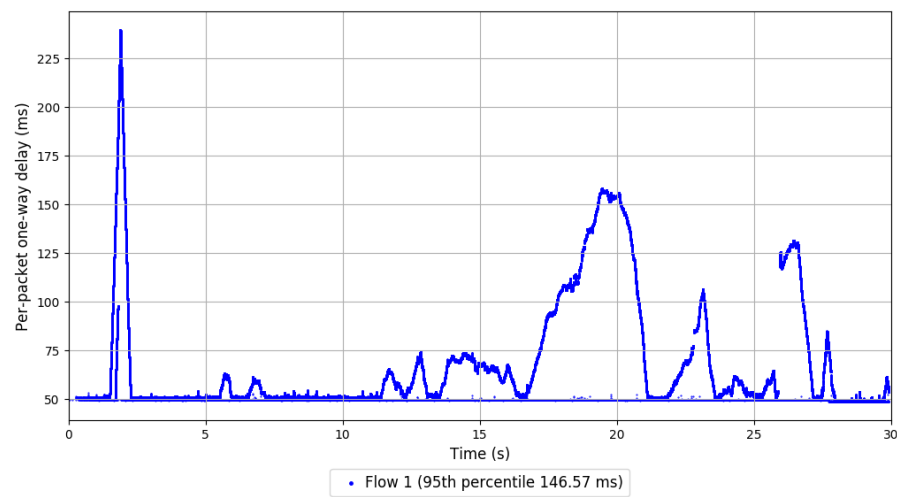
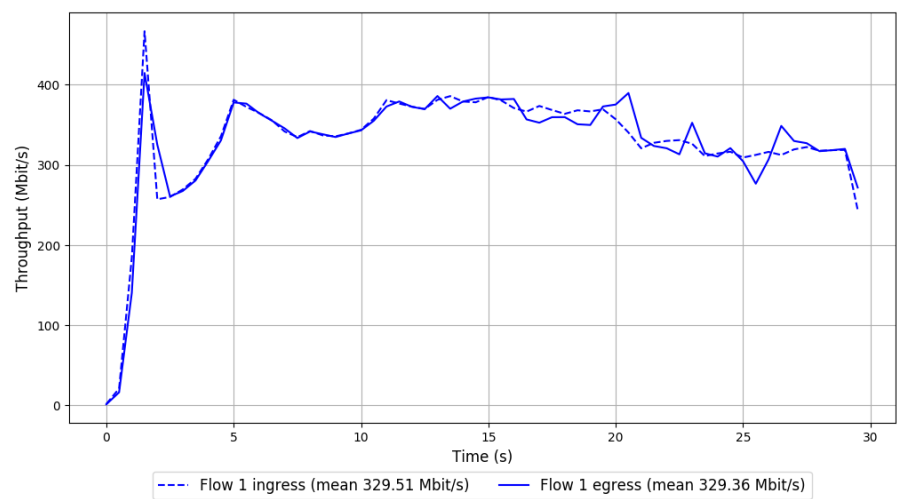
-- Flow 1:

Average throughput: 329.36 Mbit/s

95th percentile per-packet one-way delay: 146.570 ms

Loss rate: 0.05%

Run 10: Report of PCC — Data Link

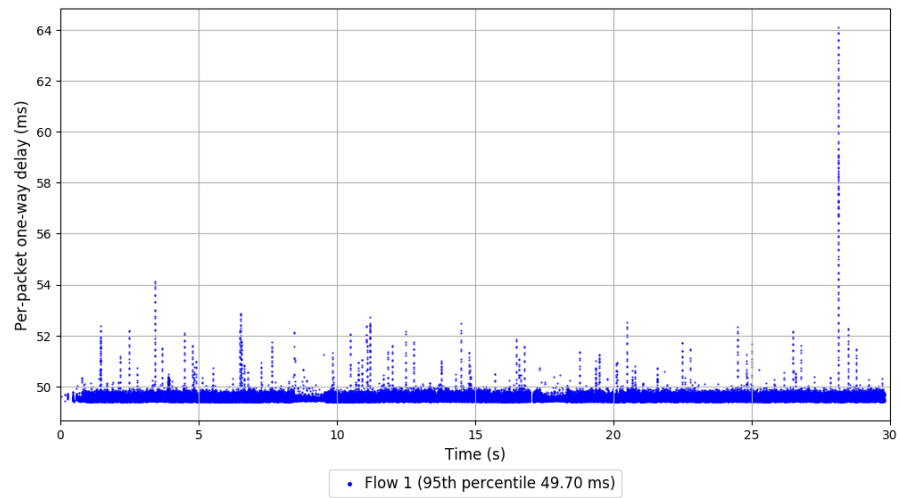
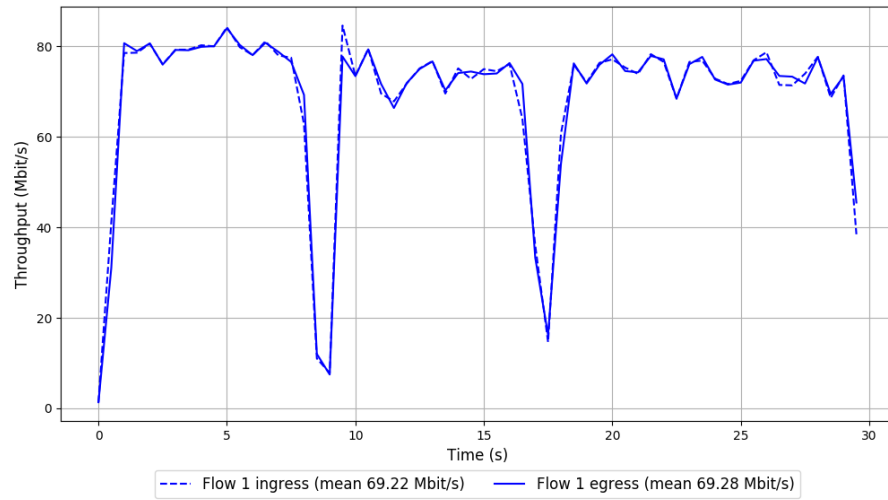


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-01-30 20:13:48
End at: 2018-01-30 20:14:18

# Below is generated by plot.py at 2018-01-30 23:55:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.28 Mbit/s
95th percentile per-packet one-way delay: 49.698 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.28 Mbit/s
95th percentile per-packet one-way delay: 49.698 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-01-30 20:27:53

End at: 2018-01-30 20:28:23

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 48.611 ms

Loss rate: 0.00%

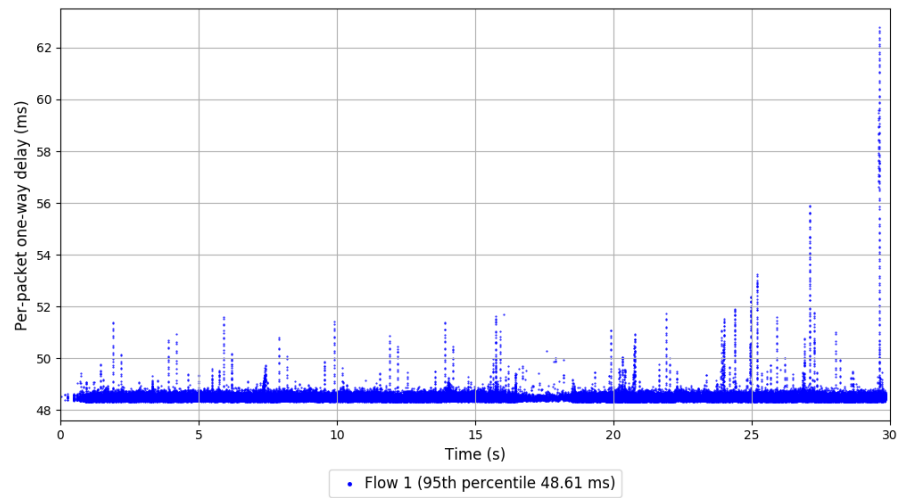
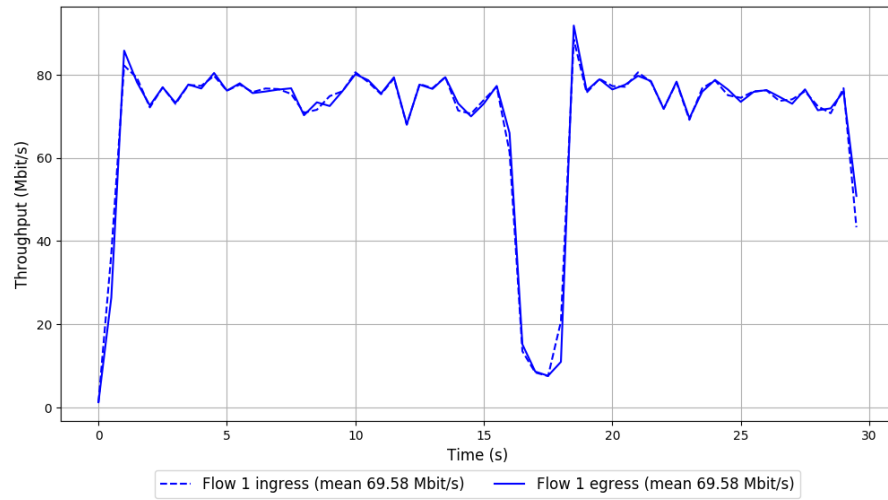
-- Flow 1:

Average throughput: 69.58 Mbit/s

95th percentile per-packet one-way delay: 48.611 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-01-30 20:41:44

End at: 2018-01-30 20:42:14

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.33 Mbit/s

95th percentile per-packet one-way delay: 49.709 ms

Loss rate: 0.00%

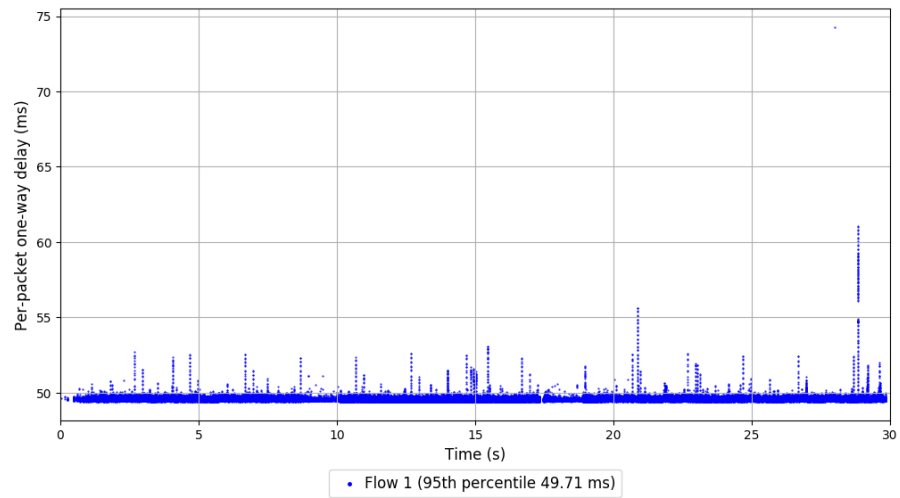
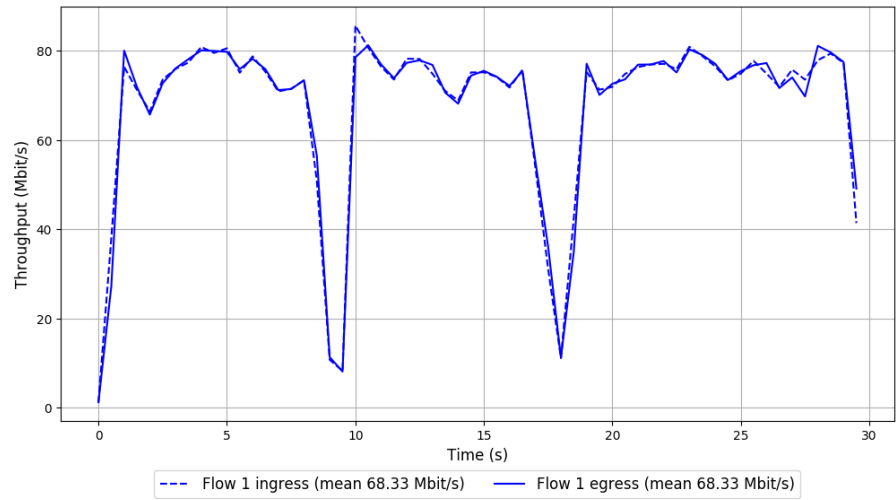
-- Flow 1:

Average throughput: 68.33 Mbit/s

95th percentile per-packet one-way delay: 49.709 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-30 20:55:24

End at: 2018-01-30 20:55:54

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.41 Mbit/s

95th percentile per-packet one-way delay: 49.347 ms

Loss rate: 0.00%

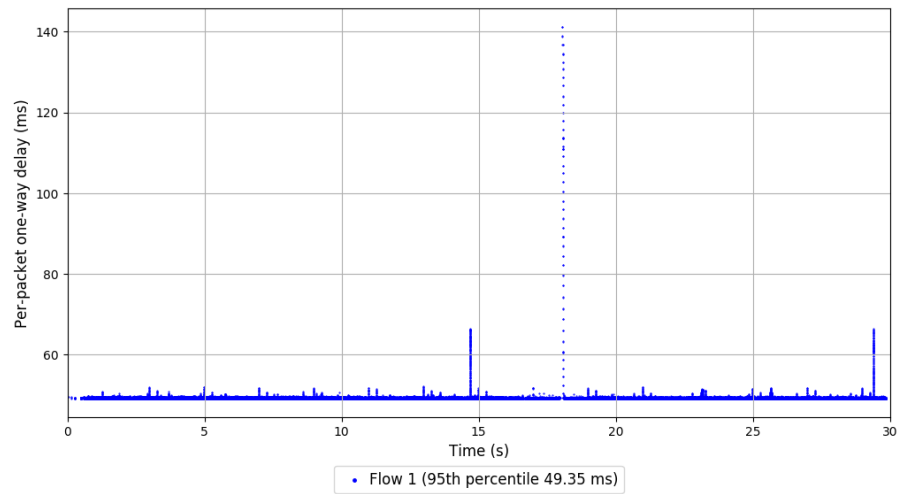
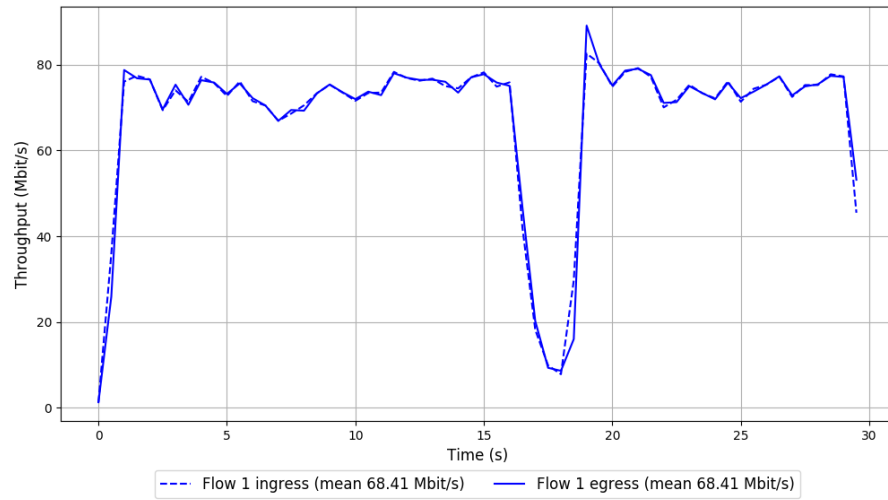
-- Flow 1:

Average throughput: 68.41 Mbit/s

95th percentile per-packet one-way delay: 49.347 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-01-30 21:08:58

End at: 2018-01-30 21:09:28

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 49.552 ms

Loss rate: 0.00%

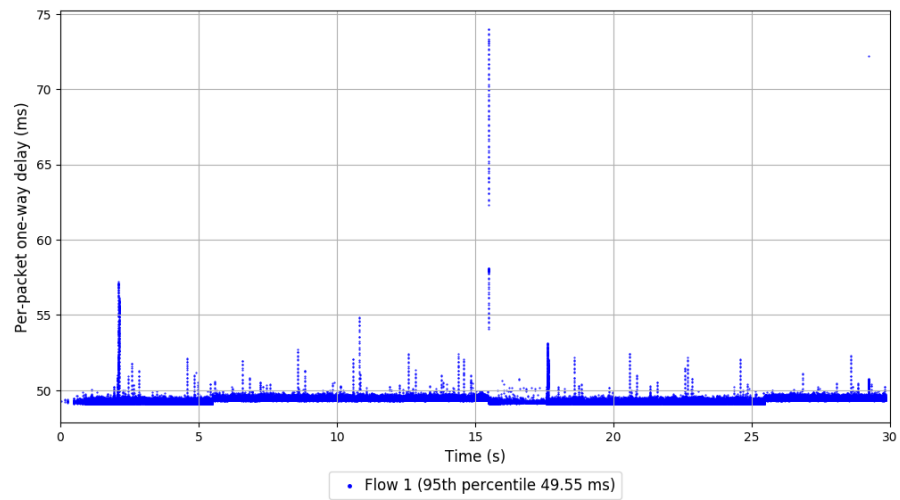
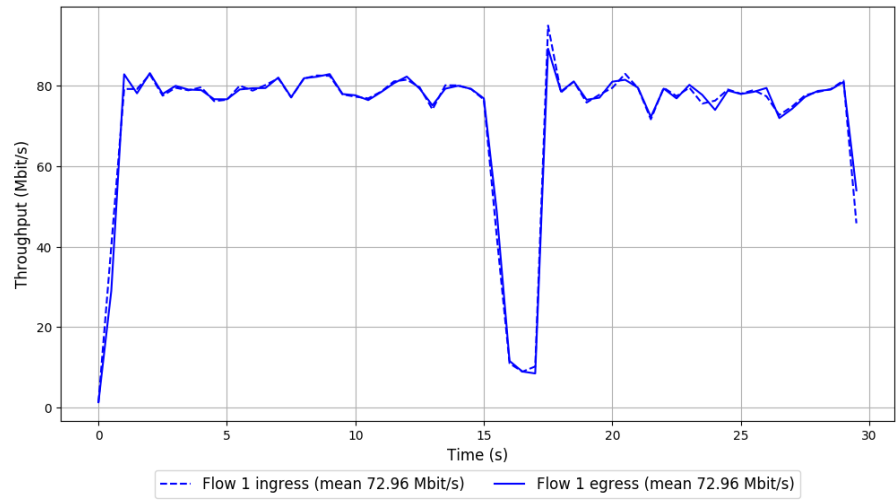
-- Flow 1:

Average throughput: 72.96 Mbit/s

95th percentile per-packet one-way delay: 49.552 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-01-30 21:23:04

End at: 2018-01-30 21:23:34

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.08 Mbit/s

95th percentile per-packet one-way delay: 50.470 ms

Loss rate: 0.07%

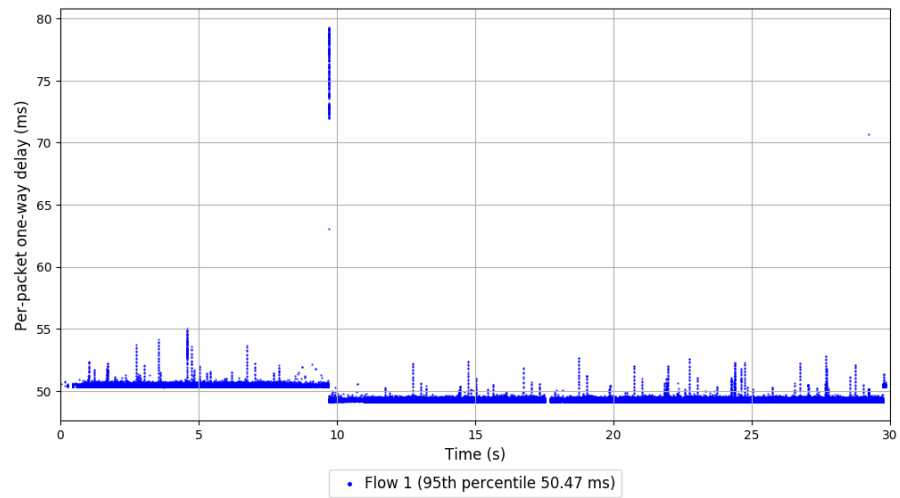
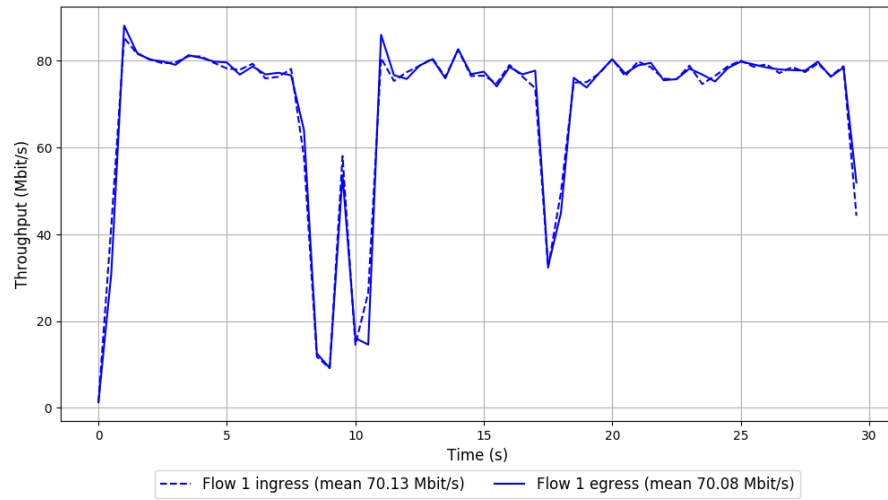
-- Flow 1:

Average throughput: 70.08 Mbit/s

95th percentile per-packet one-way delay: 50.470 ms

Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-01-30 21:36:39

End at: 2018-01-30 21:37:09

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 50.707 ms

Loss rate: 0.00%

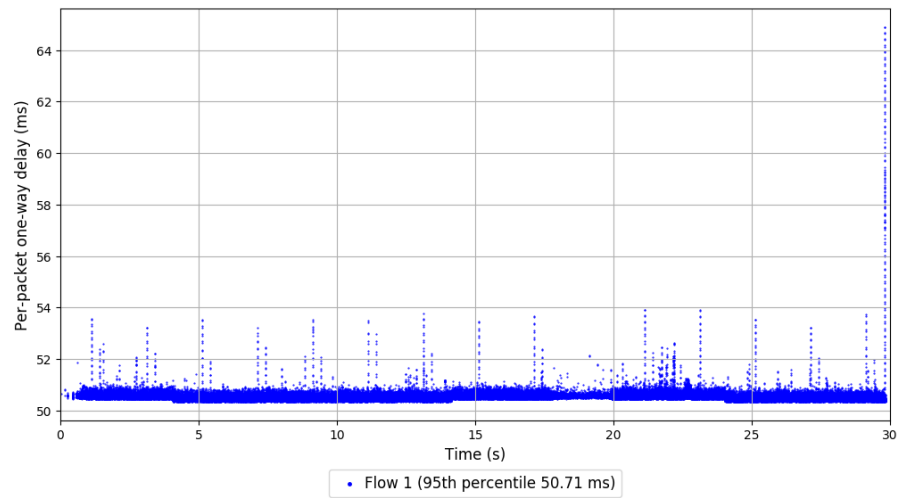
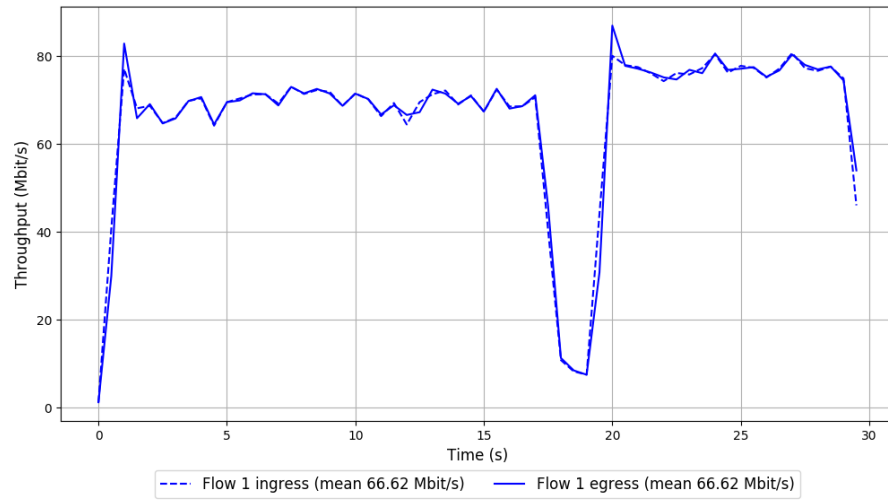
-- Flow 1:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 50.707 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-30 21:50:17

End at: 2018-01-30 21:50:47

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 50.612 ms

Loss rate: 0.00%

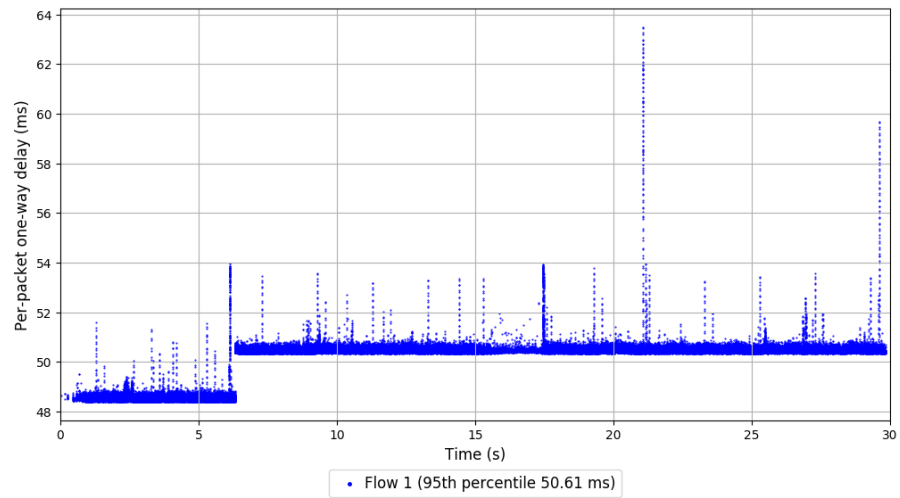
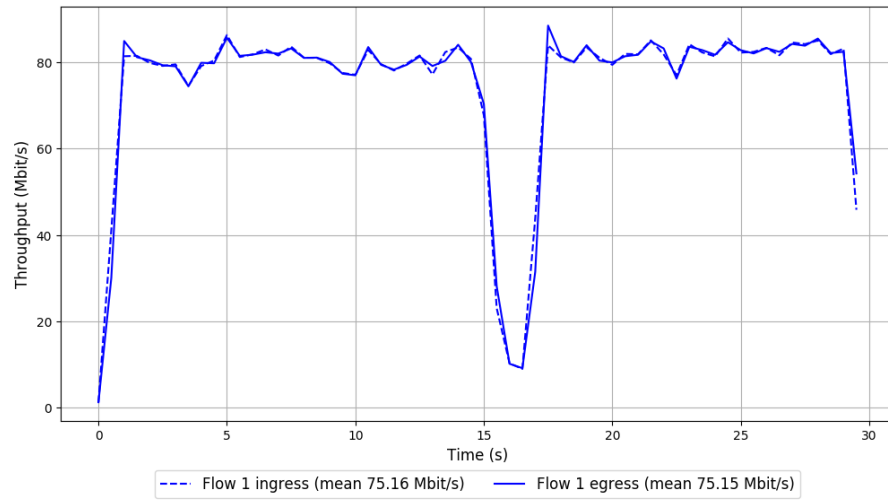
-- Flow 1:

Average throughput: 75.15 Mbit/s

95th percentile per-packet one-way delay: 50.612 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-01-30 22:03:57

End at: 2018-01-30 22:04:27

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 49.502 ms

Loss rate: 0.00%

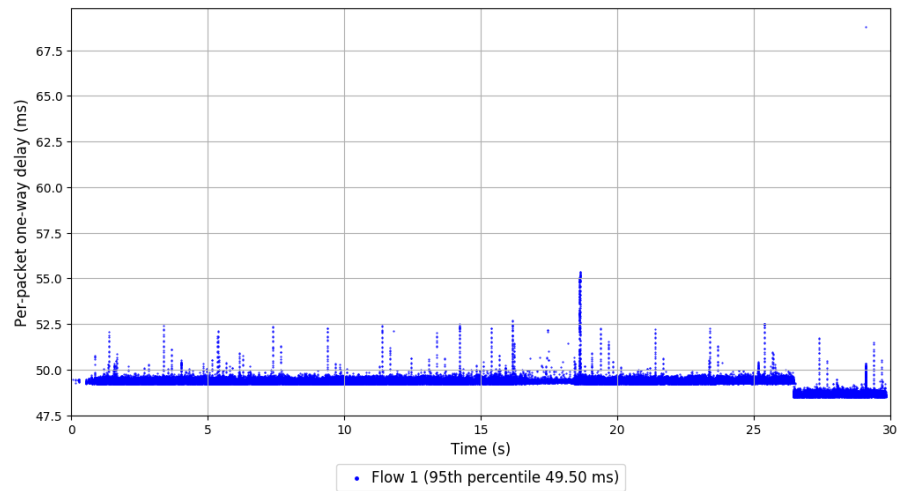
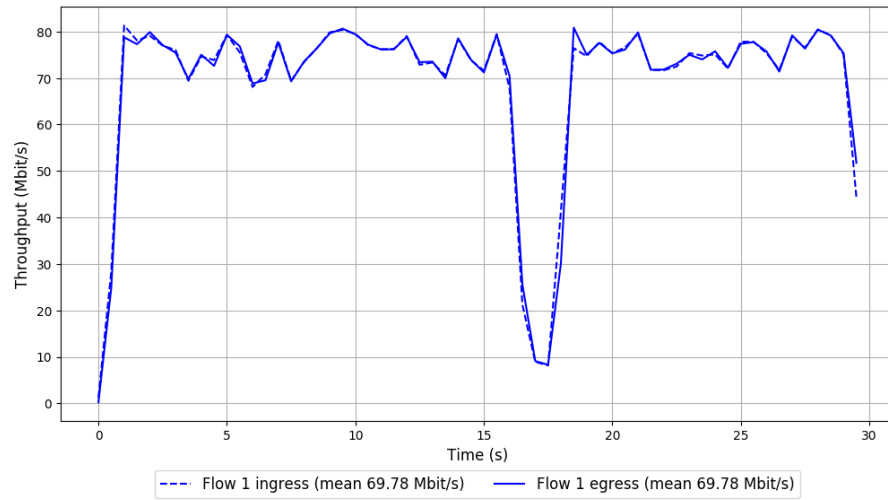
-- Flow 1:

Average throughput: 69.78 Mbit/s

95th percentile per-packet one-way delay: 49.502 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-01-30 22:17:55

End at: 2018-01-30 22:18:25

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 49.507 ms

Loss rate: 0.00%

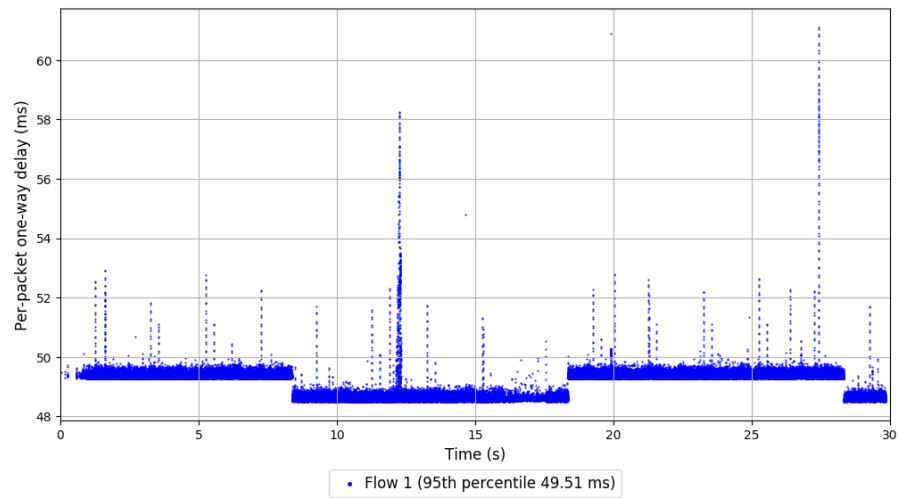
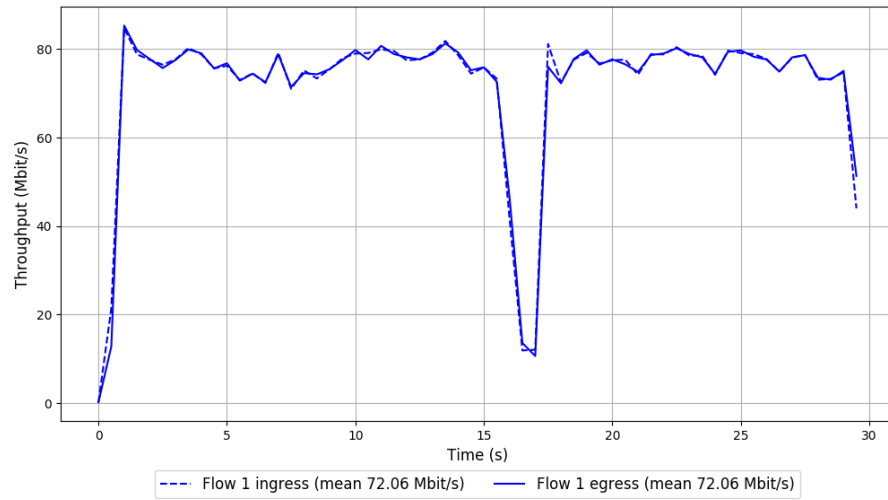
-- Flow 1:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 49.507 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

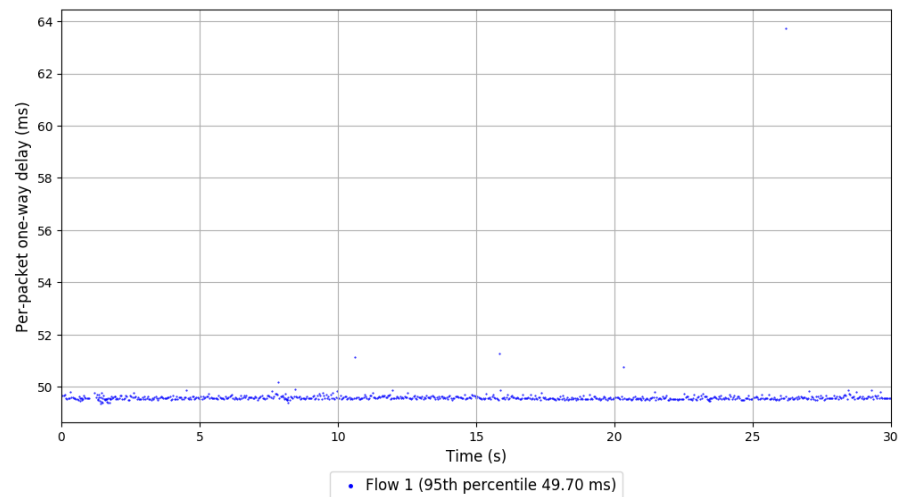
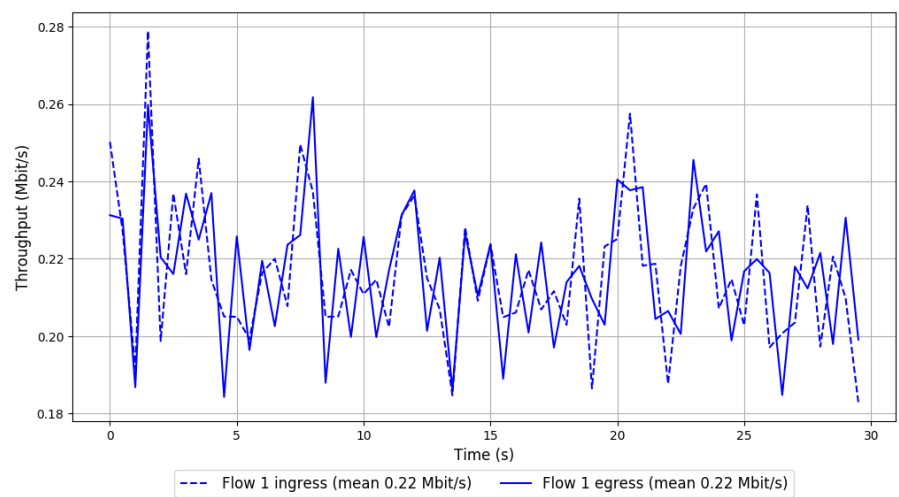


```
Run 1: Statistics of SCReAM

Start at: 2018-01-30 20:15:12
End at: 2018-01-30 20:15:42

# Below is generated by plot.py at 2018-01-30 23:55:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.705 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

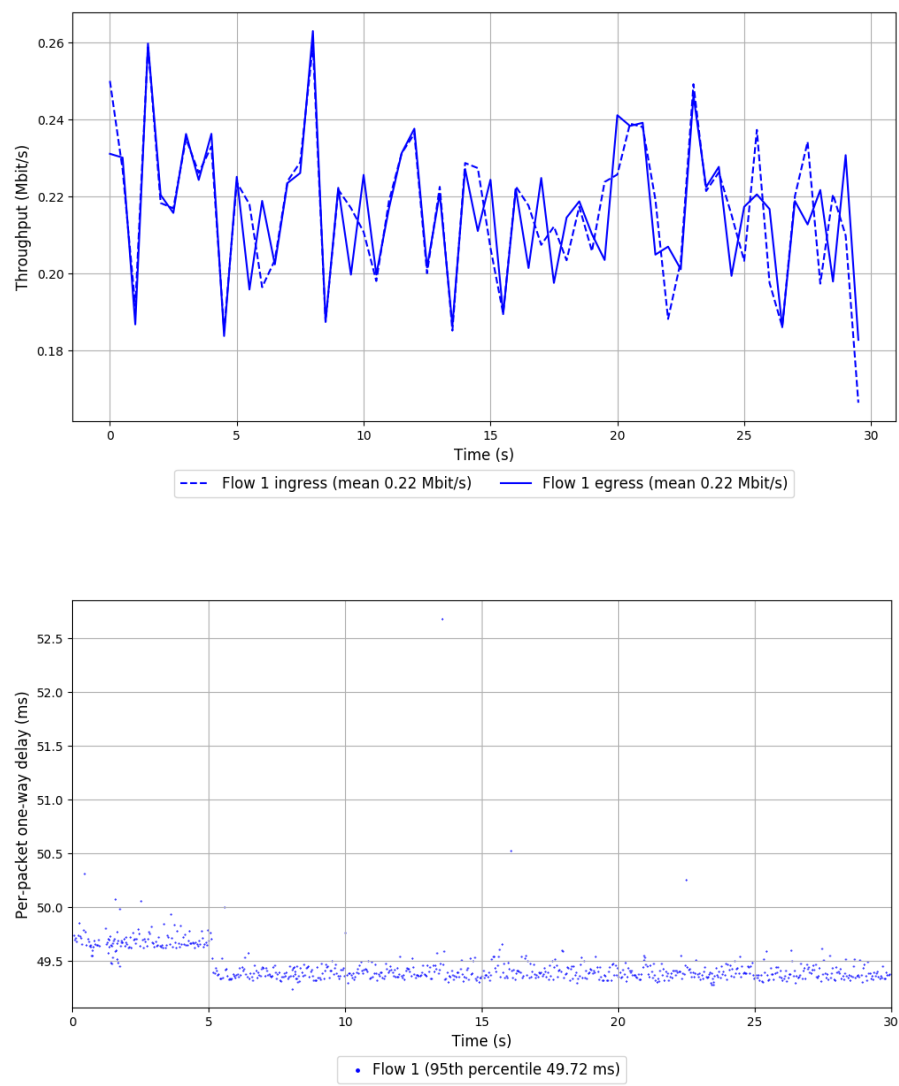


```
Run 2: Statistics of SCReAM

Start at: 2018-01-30 20:29:19
End at: 2018-01-30 20:29:49

# Below is generated by plot.py at 2018-01-30 23:55:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.721 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.721 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-01-30 20:43:08

End at: 2018-01-30 20:43:38

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.731 ms

Loss rate: 0.00%

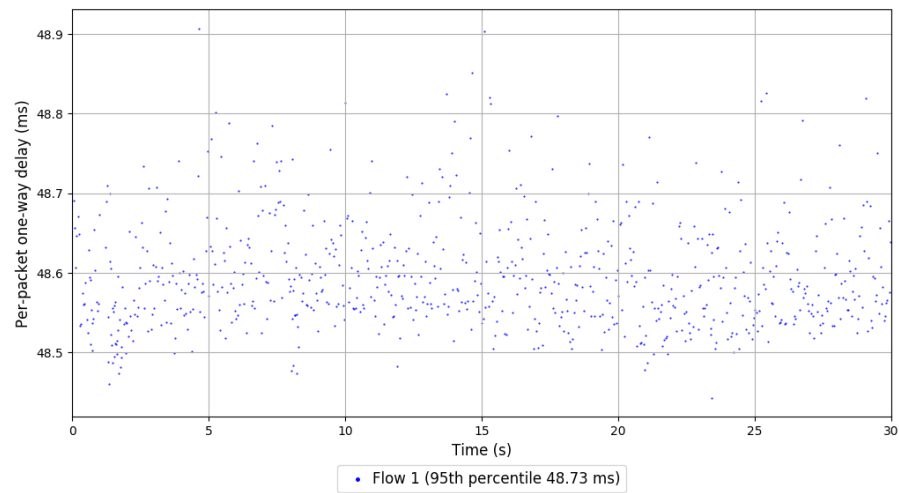
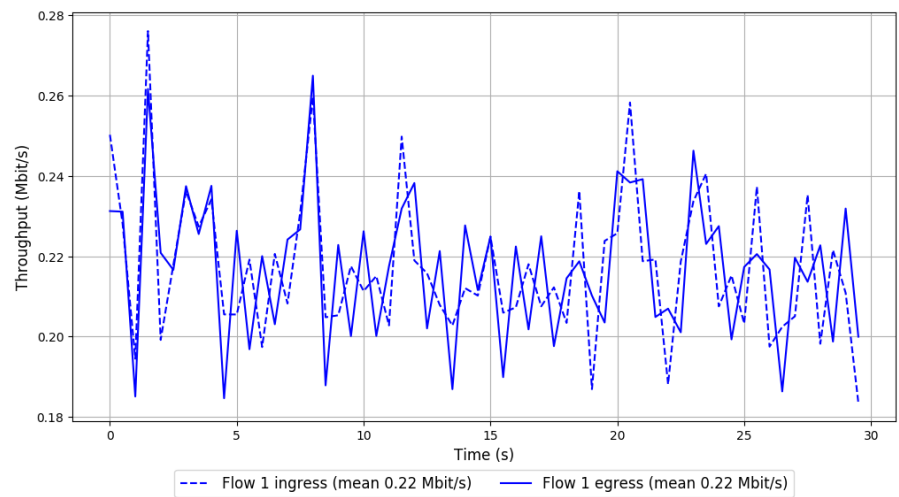
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 48.731 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-30 20:56:48

End at: 2018-01-30 20:57:18

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.814 ms

Loss rate: 0.00%

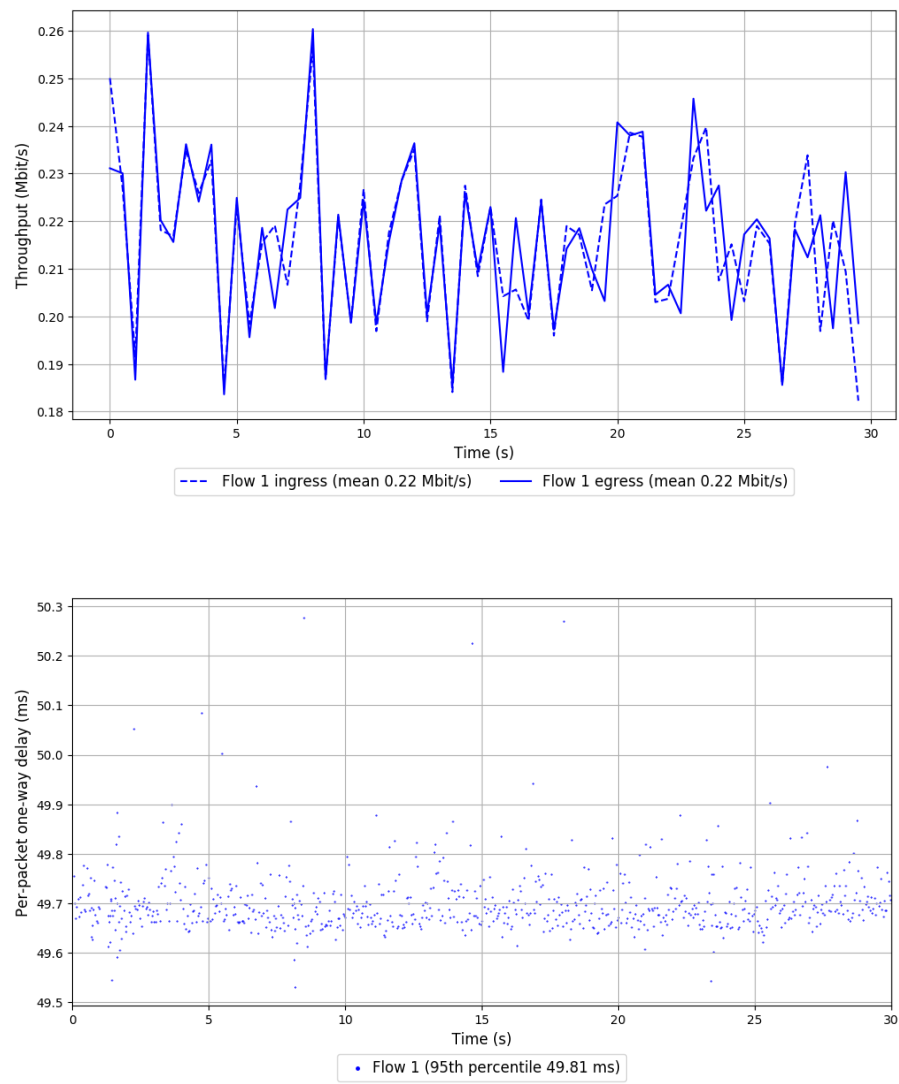
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.814 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-01-30 21:10:25

End at: 2018-01-30 21:10:55

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.715 ms

Loss rate: 0.00%

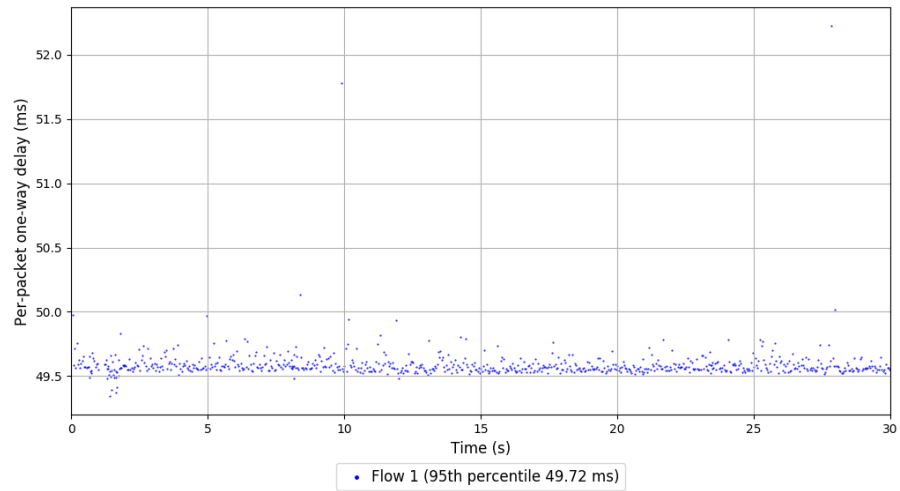
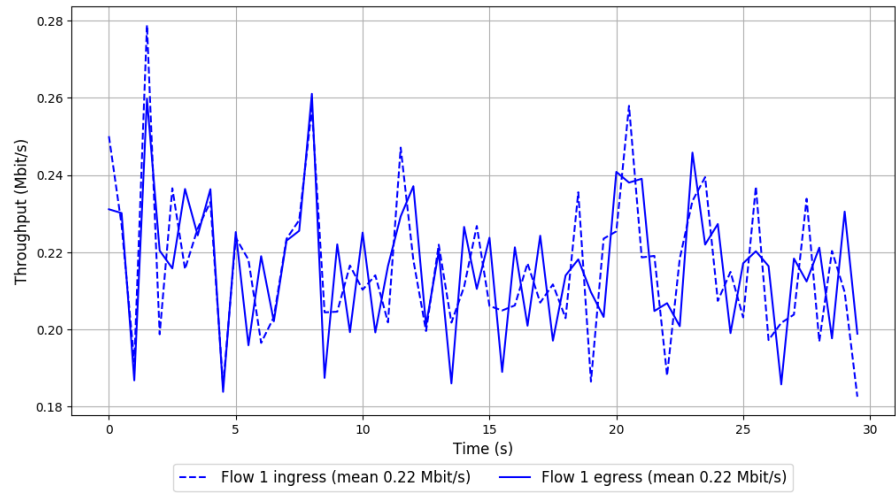
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.715 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-30 21:24:29

End at: 2018-01-30 21:24:59

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.764 ms

Loss rate: 0.00%

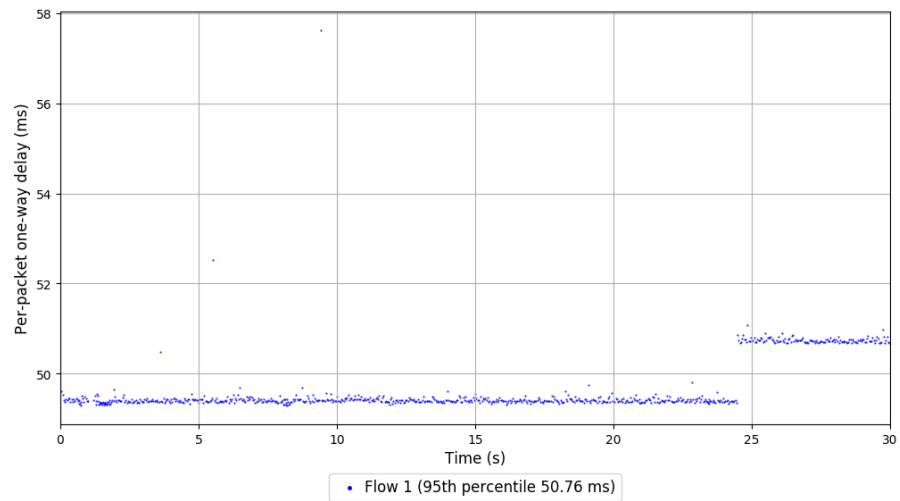
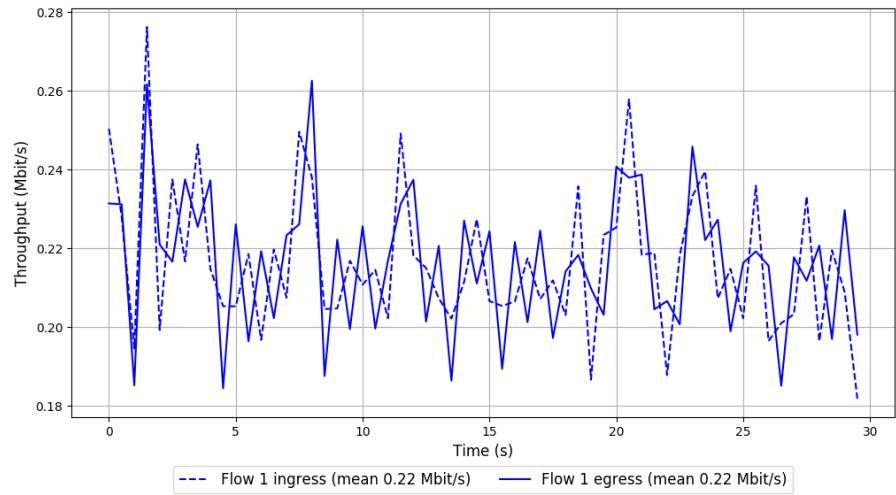
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.764 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

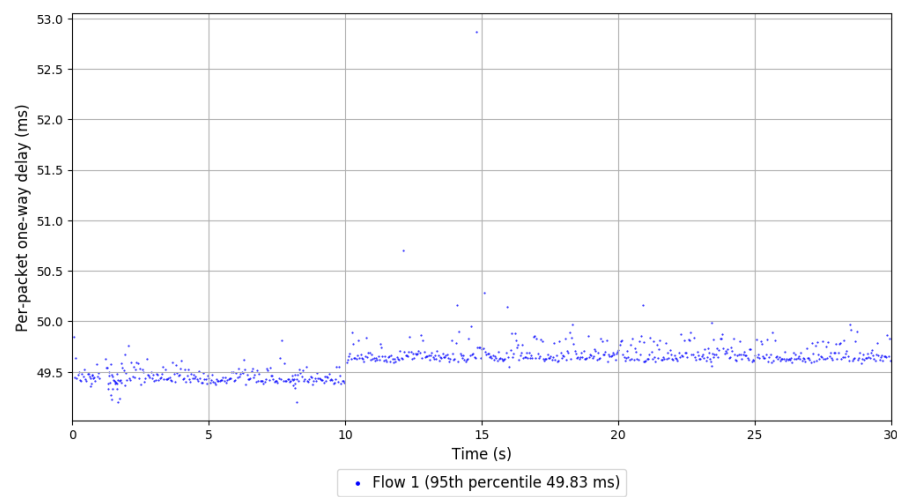
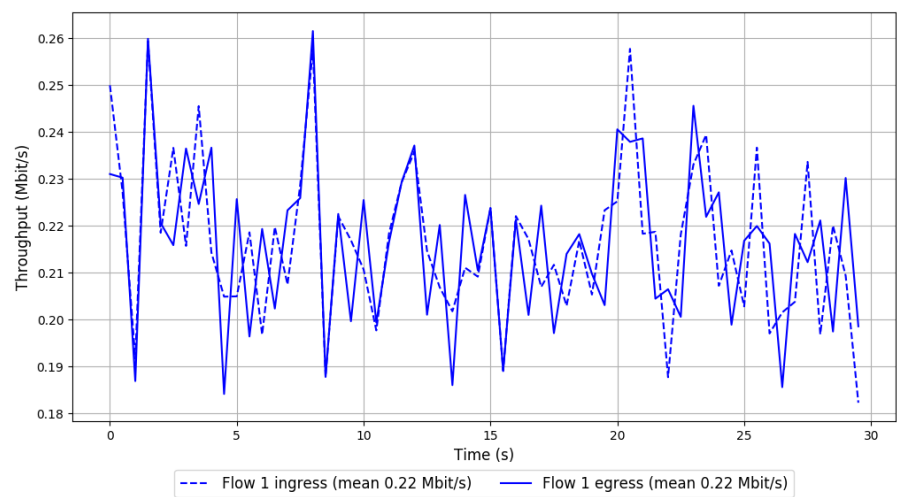


```
Run 7: Statistics of SCReAM

Start at: 2018-01-30 21:38:04
End at: 2018-01-30 21:38:34

# Below is generated by plot.py at 2018-01-30 23:55:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.826 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 49.826 ms
Loss rate: 0.00%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-01-30 21:51:42

End at: 2018-01-30 21:52:12

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.893 ms

Loss rate: 0.00%

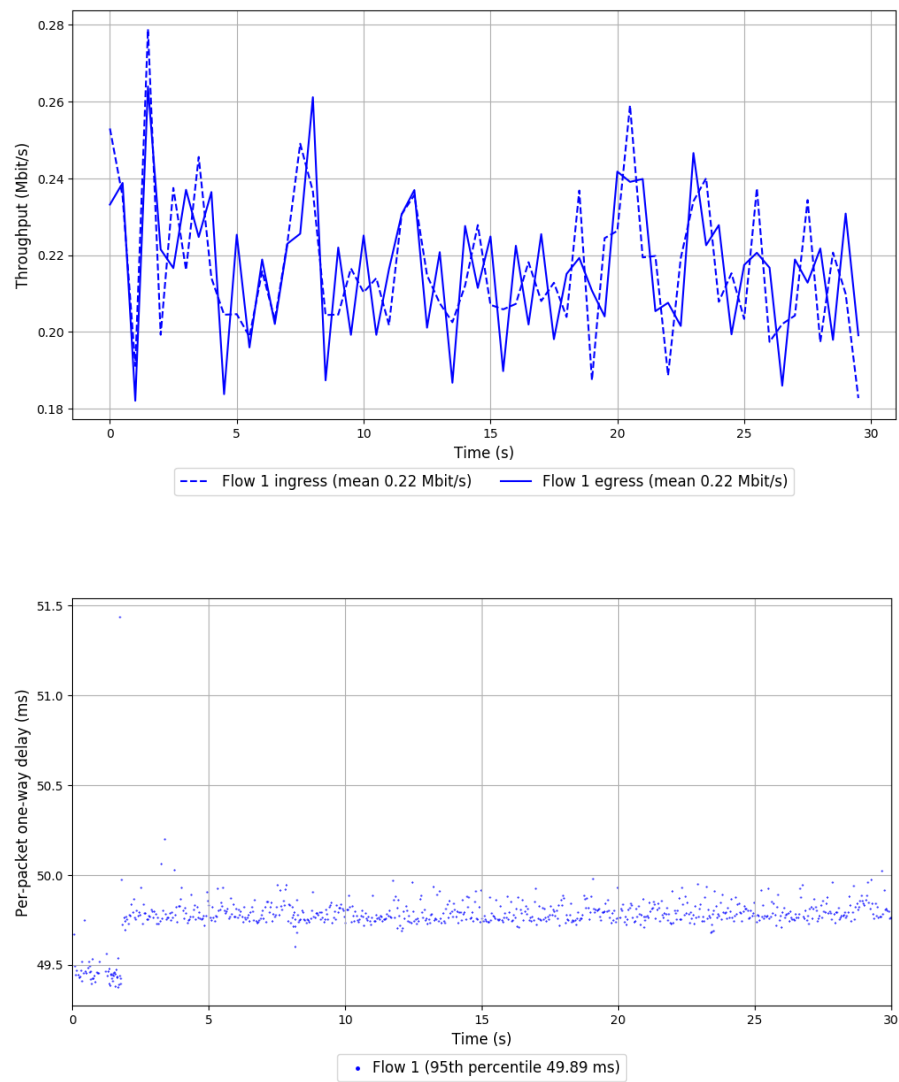
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.893 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-01-30 22:05:24

End at: 2018-01-30 22:05:54

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.634 ms

Loss rate: 0.00%

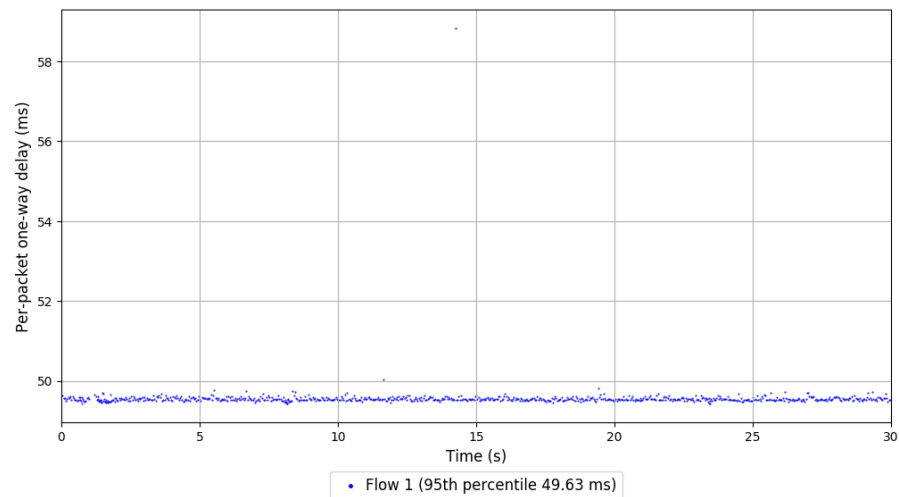
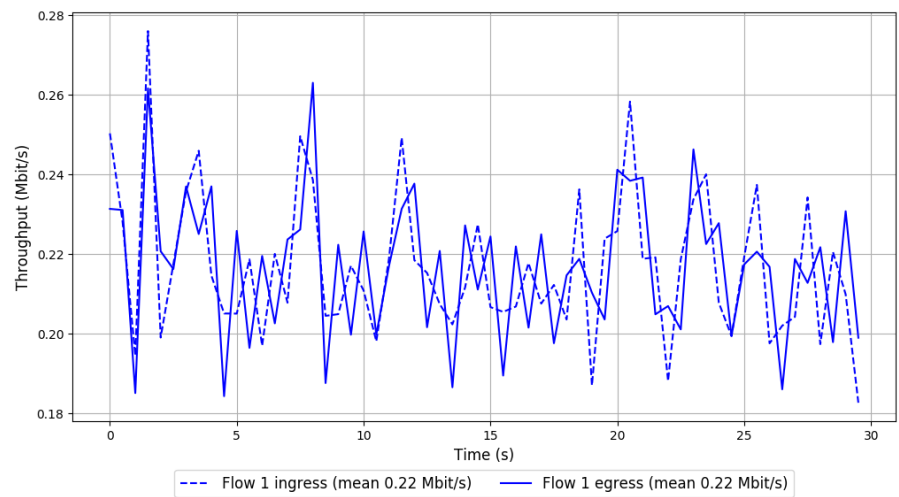
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.634 ms

Loss rate: 0.00%

Run 9: Report of SCRaM — Data Link

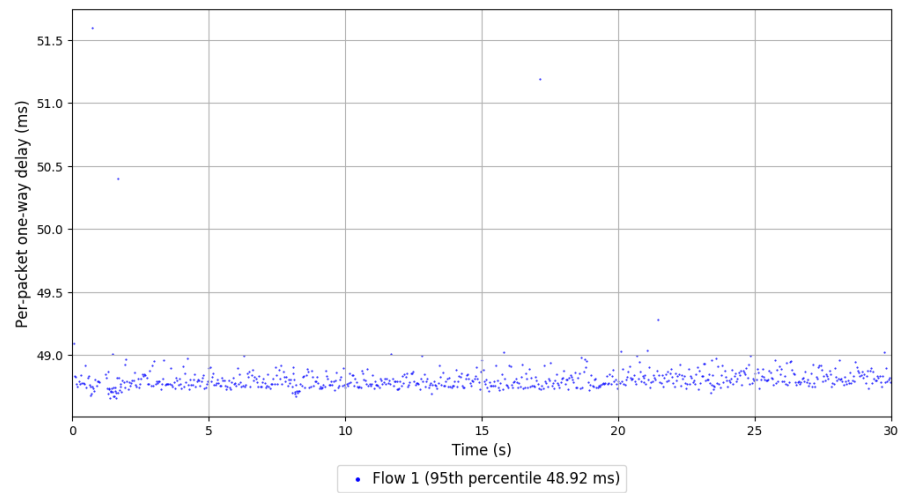
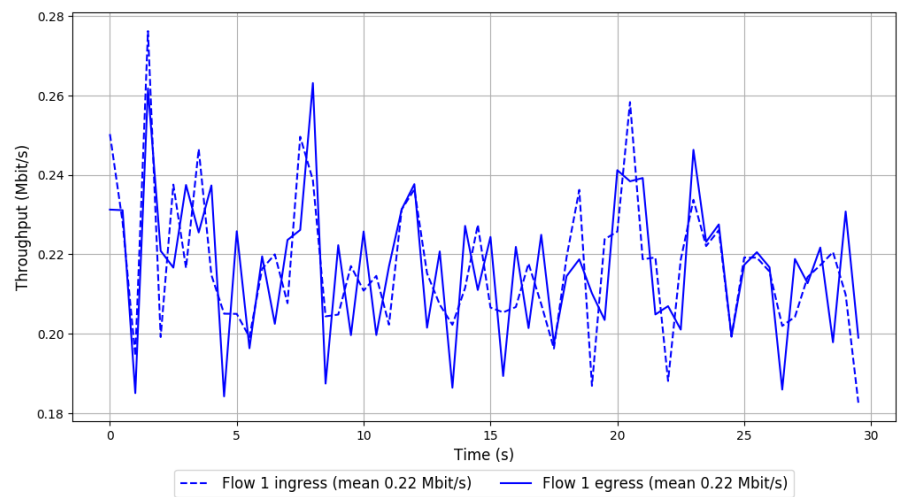


```
Run 10: Statistics of SReAM

Start at: 2018-01-30 22:19:21
End at: 2018-01-30 22:19:51

# Below is generated by plot.py at 2018-01-30 23:55:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 48.925 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

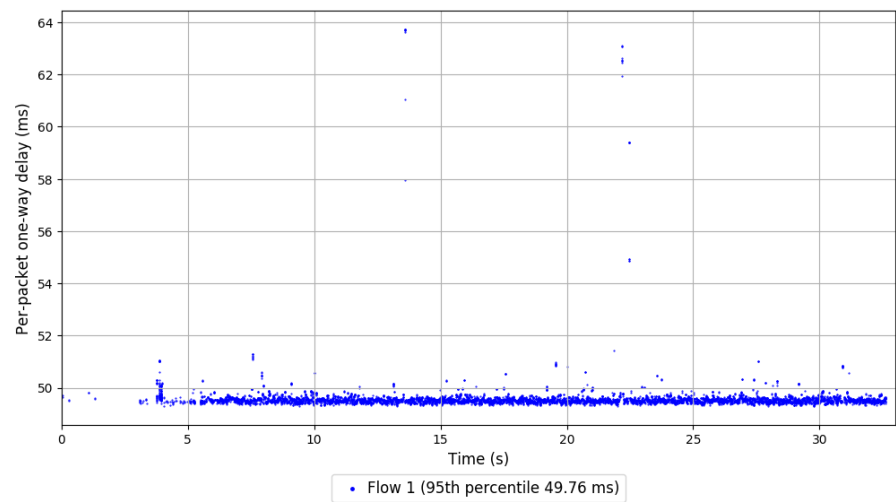
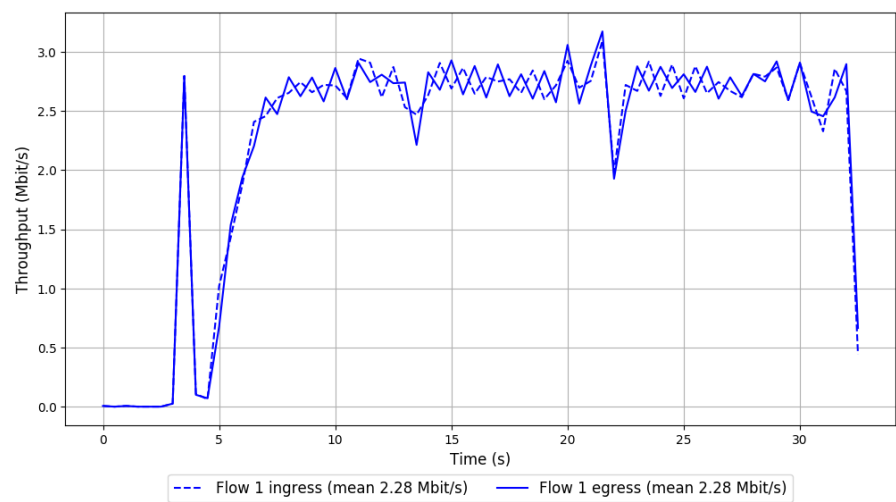


```
Run 1: Statistics of WebRTC media

Start at: 2018-01-30 20:11:28
End at: 2018-01-30 20:11:58

# Below is generated by plot.py at 2018-01-30 23:55:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 49.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 49.763 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

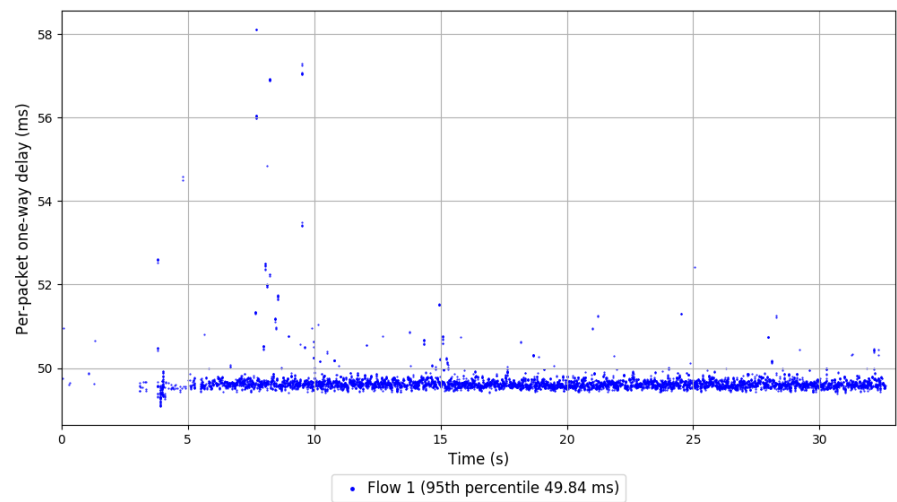
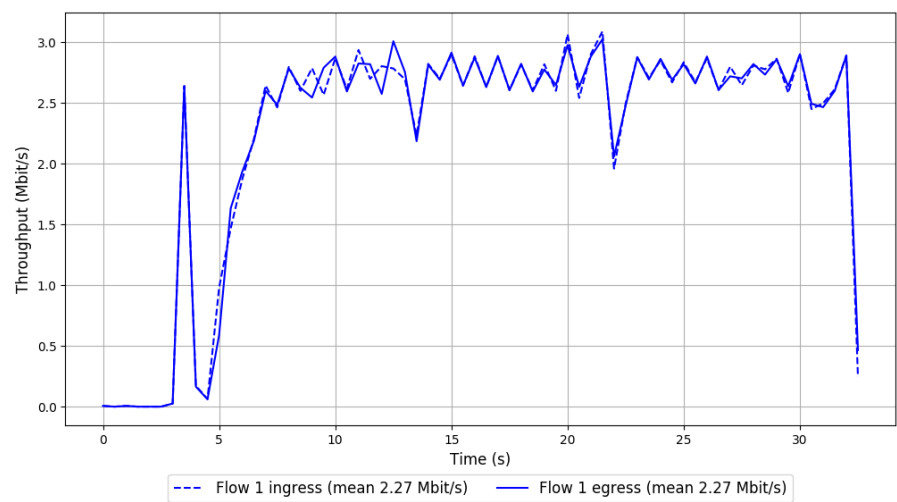


```
Run 2: Statistics of WebRTC media

Start at: 2018-01-30 20:25:31
End at: 2018-01-30 20:26:02

# Below is generated by plot.py at 2018-01-30 23:55:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 49.836 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-01-30 20:39:21

End at: 2018-01-30 20:39:51

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.766 ms

Loss rate: 0.00%

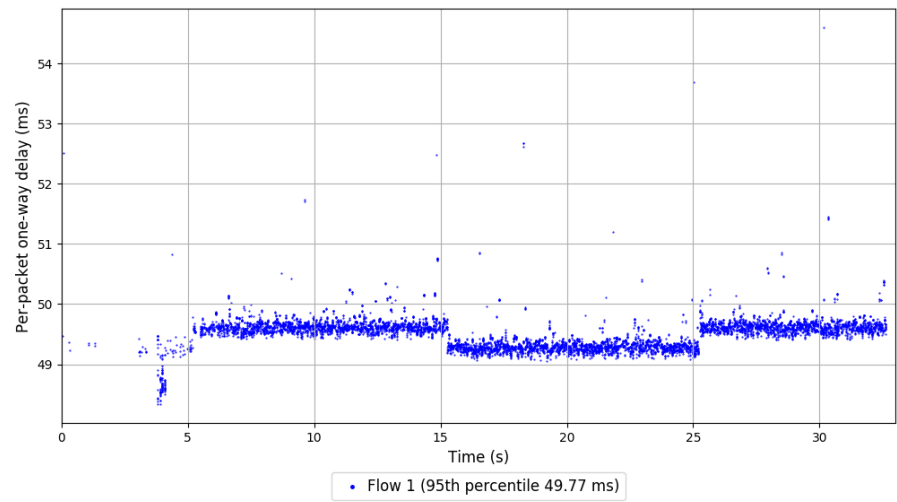
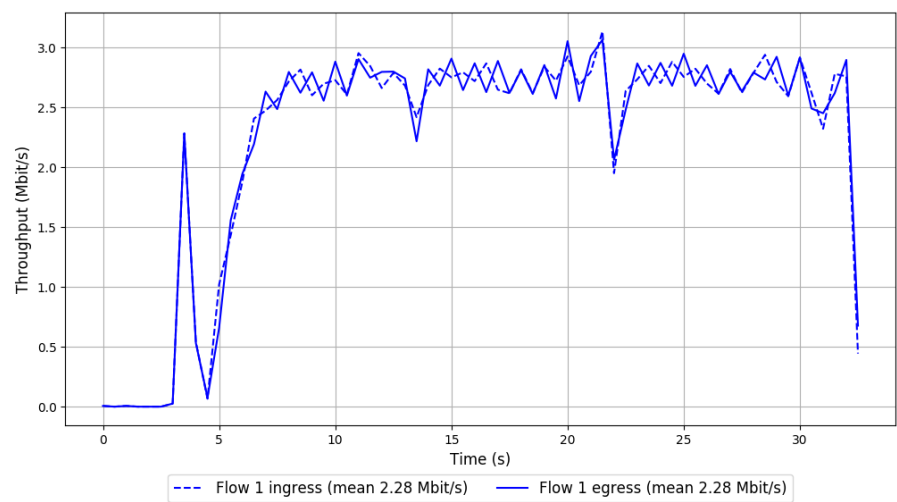
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.766 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-01-30 20:53:05

End at: 2018-01-30 20:53:35

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.141 ms

Loss rate: 0.00%

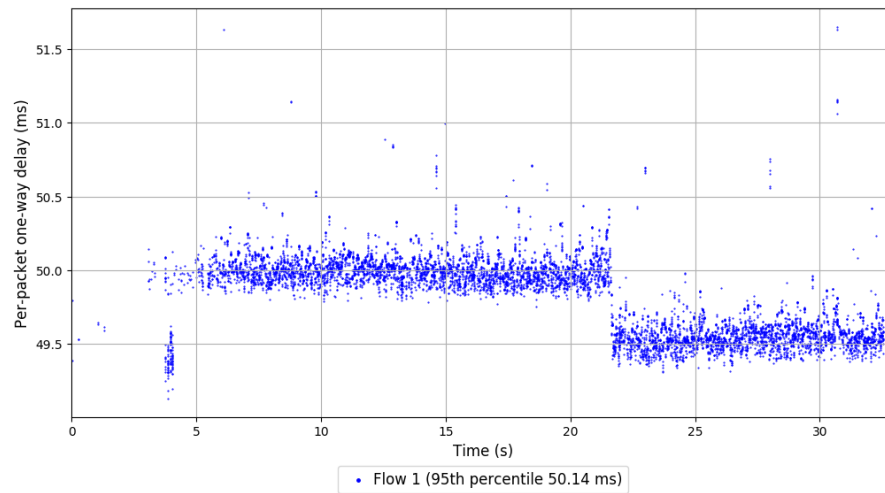
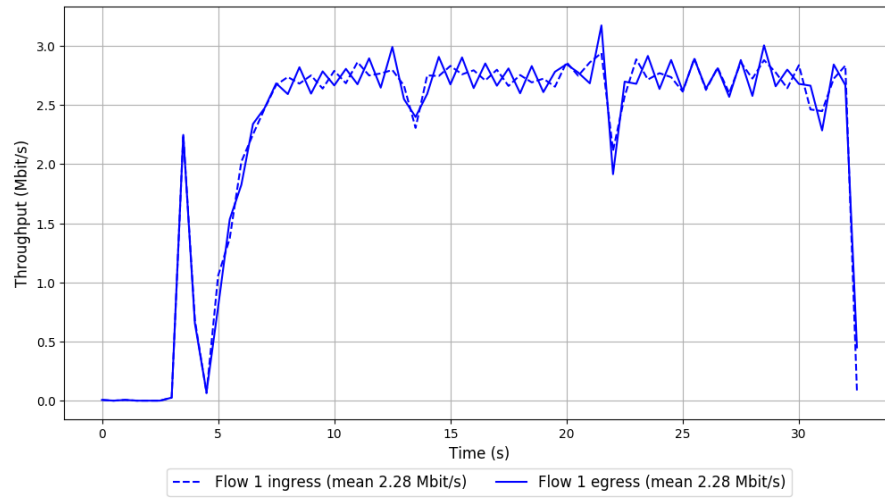
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 50.141 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-01-30 21:06:56

End at: 2018-01-30 21:07:26

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 48.787 ms

Loss rate: 0.00%

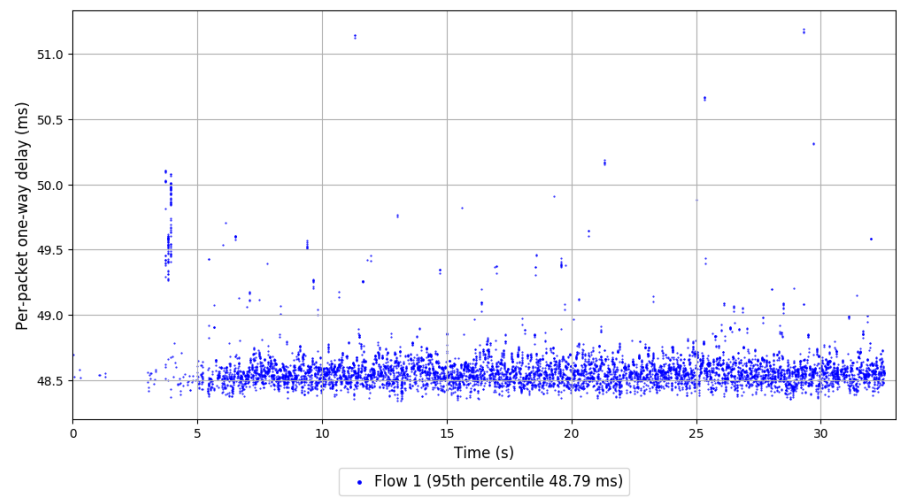
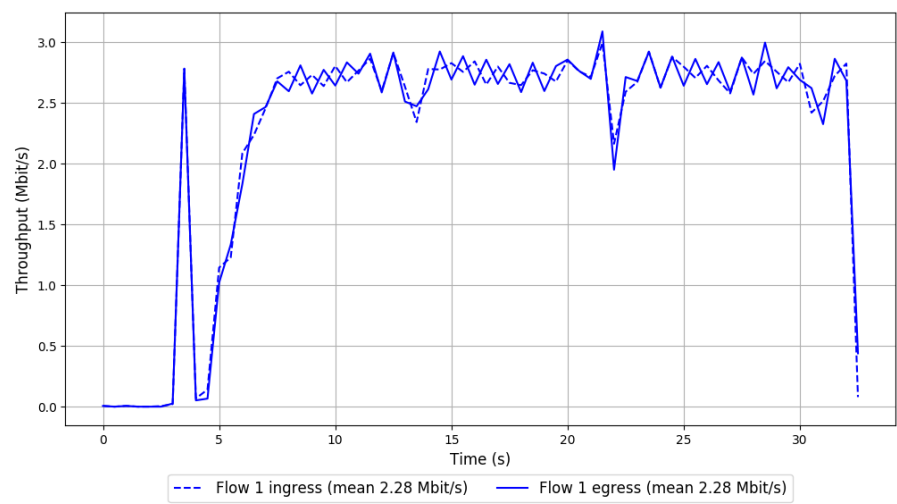
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 48.787 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-01-30 21:20:40

End at: 2018-01-30 21:21:10

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 49.654 ms

Loss rate: 0.00%

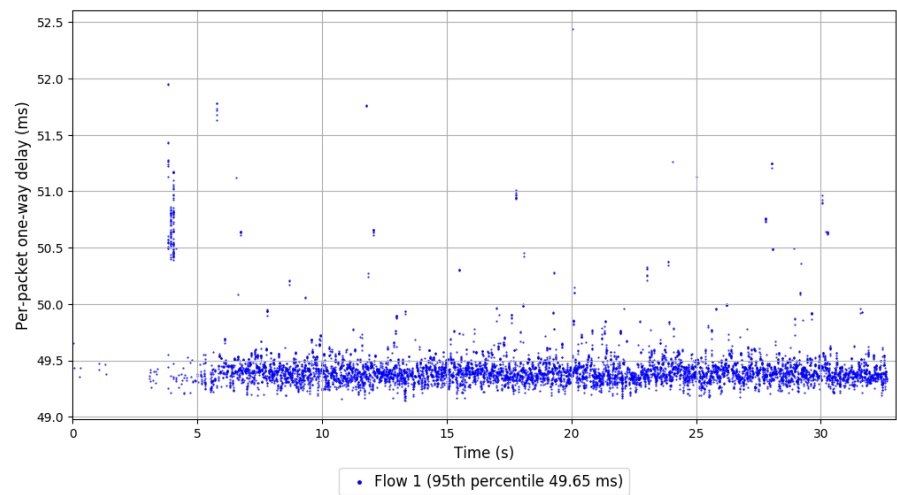
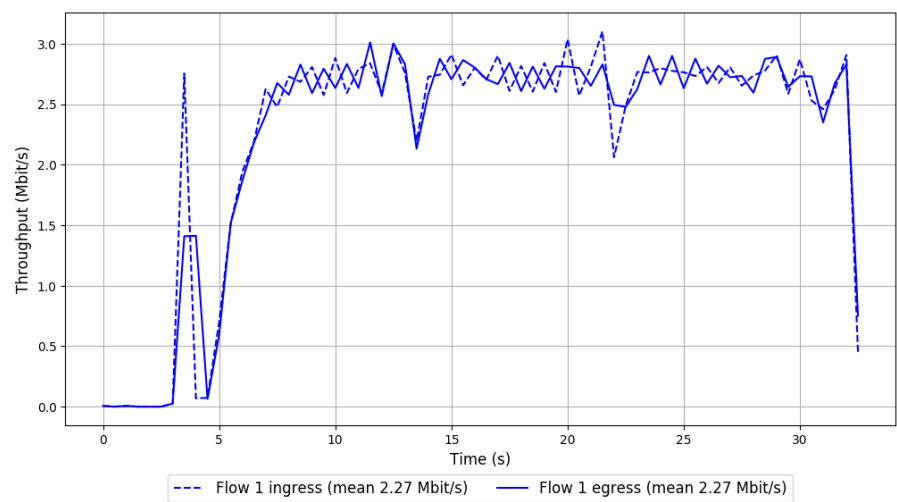
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 49.654 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-01-30 21:34:17

End at: 2018-01-30 21:34:47

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.929 ms

Loss rate: 0.00%

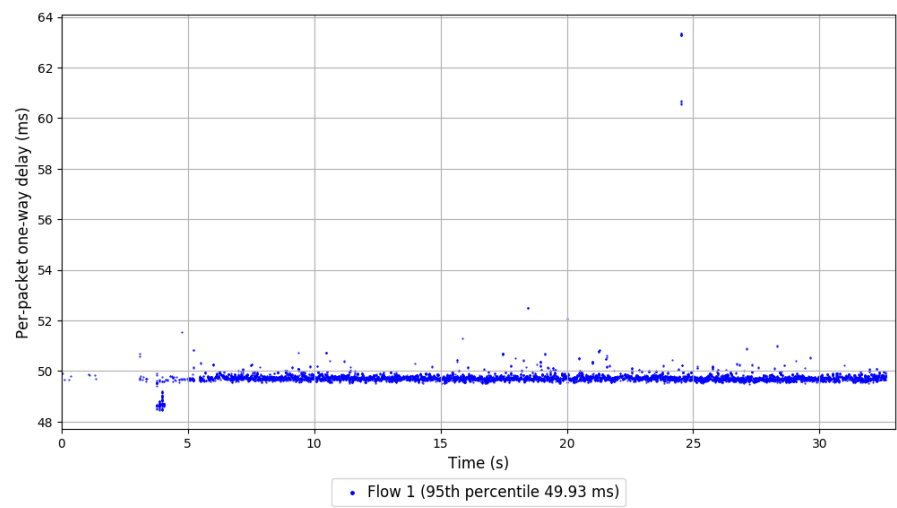
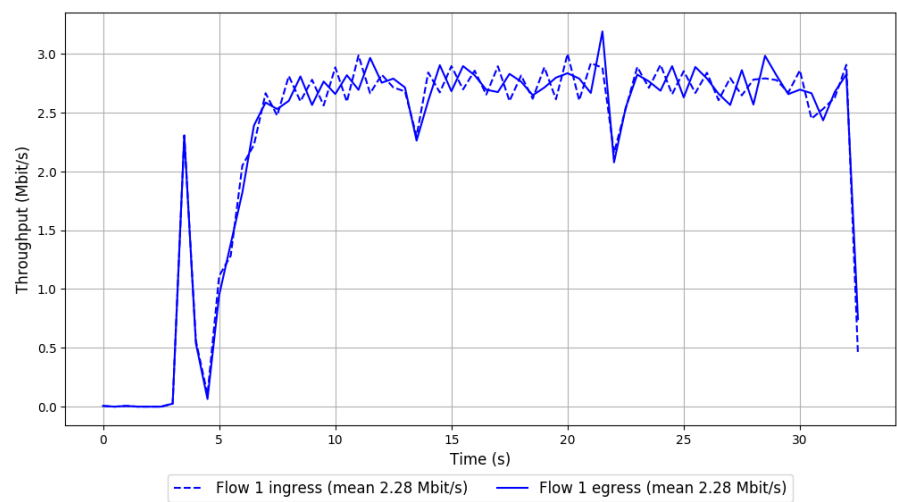
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.929 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-30 21:47:50

End at: 2018-01-30 21:48:20

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.667 ms

Loss rate: 0.00%

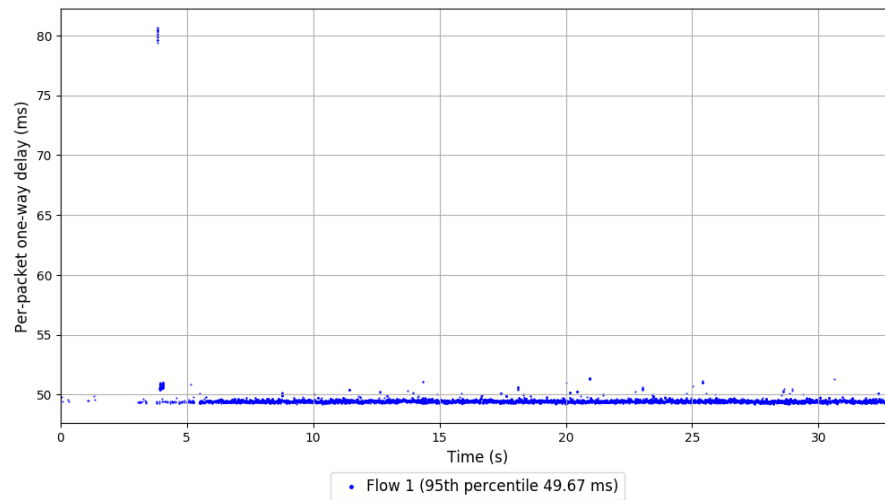
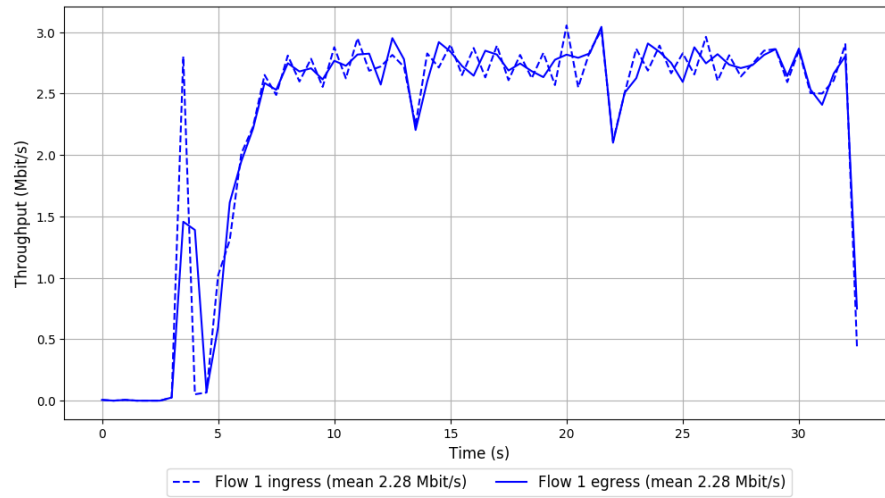
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 49.667 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-01-30 22:01:32

End at: 2018-01-30 22:02:02

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 49.639 ms

Loss rate: 0.00%

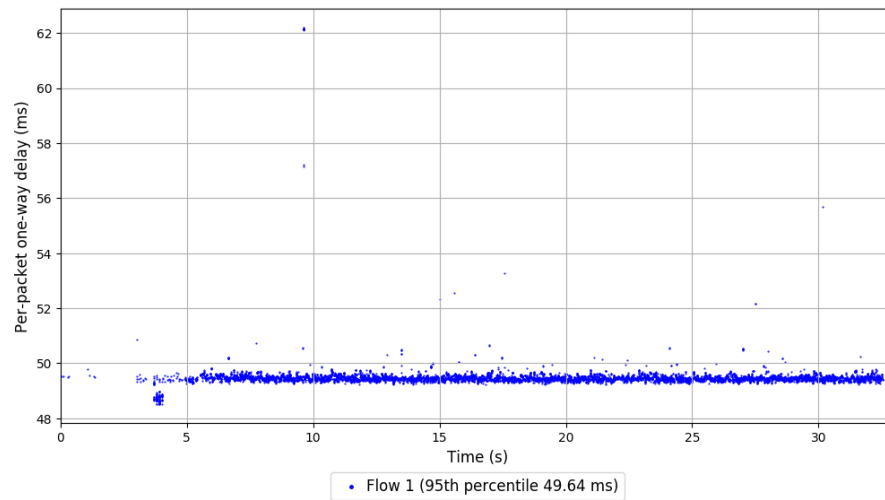
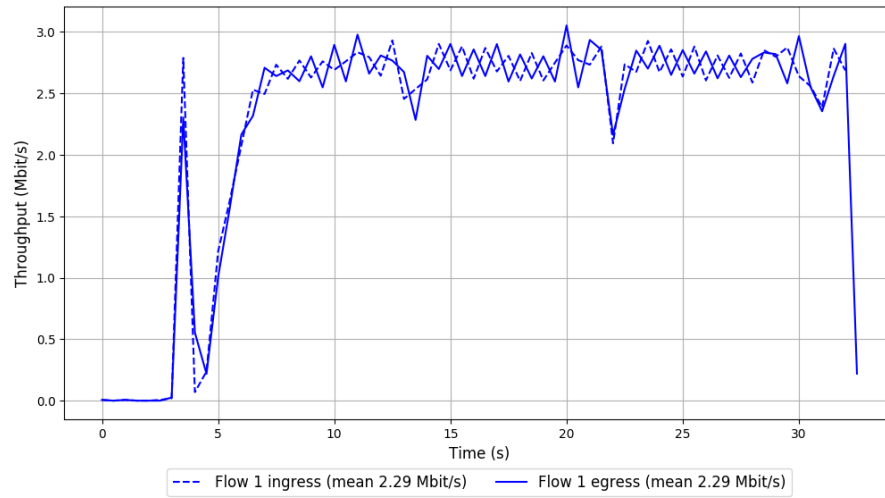
-- Flow 1:

Average throughput: 2.29 Mbit/s

95th percentile per-packet one-way delay: 49.639 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-01-30 22:15:34

End at: 2018-01-30 22:16:04

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 49.677 ms

Loss rate: 0.00%

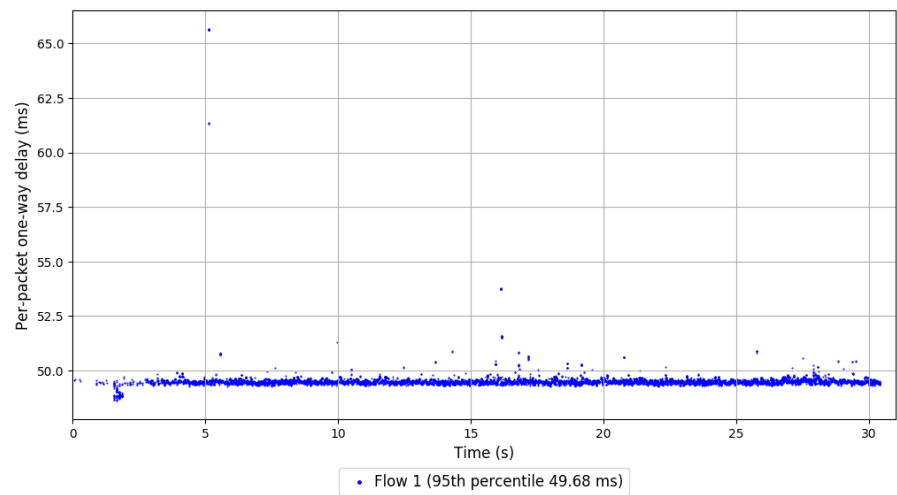
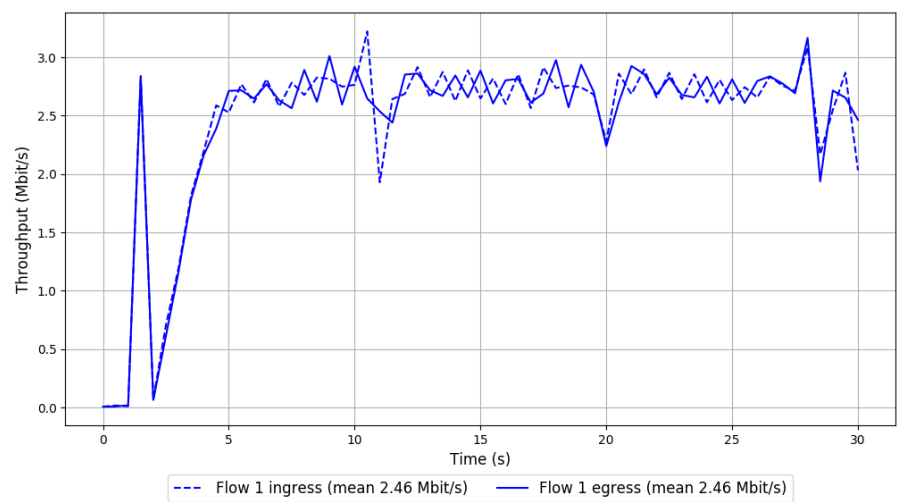
-- Flow 1:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 49.677 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

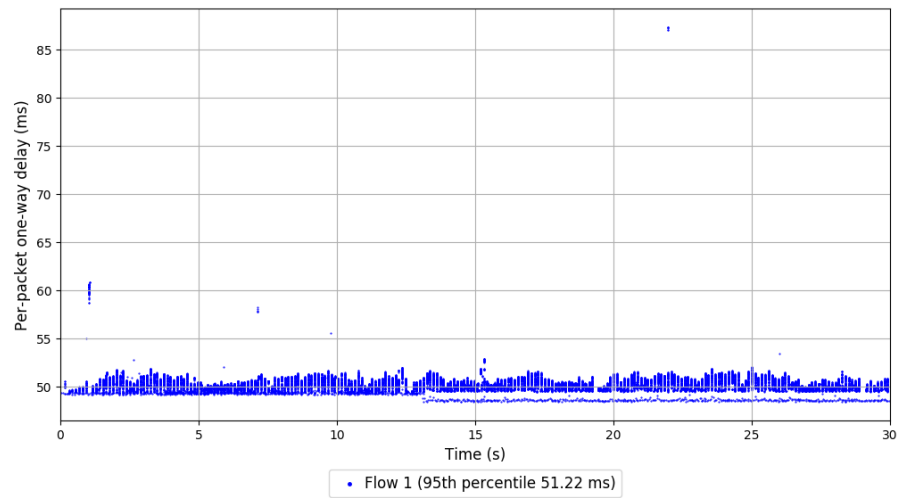
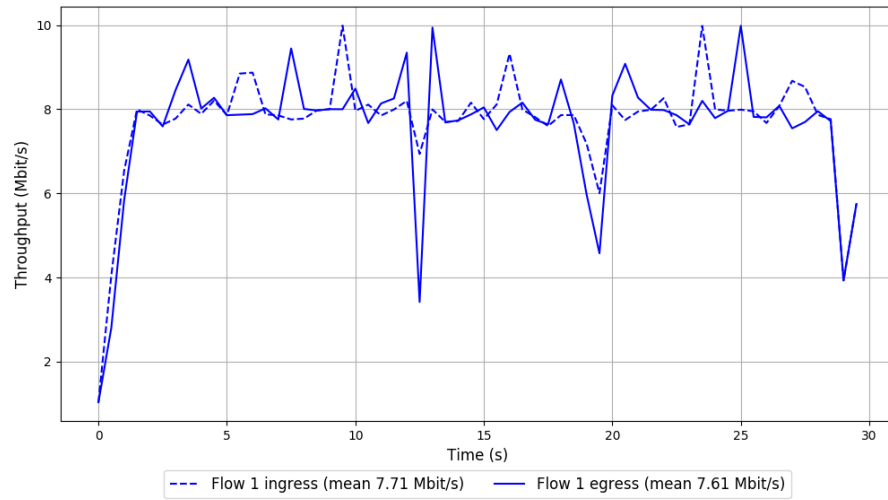


```
Run 1: Statistics of Sprout

Start at: 2018-01-30 20:02:00
End at: 2018-01-30 20:02:30

# Below is generated by plot.py at 2018-01-30 23:55:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 51.218 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 7.61 Mbit/s
95th percentile per-packet one-way delay: 51.218 ms
Loss rate: 1.22%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-01-30 20:15:49

End at: 2018-01-30 20:16:19

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 51.064 ms

Loss rate: 1.23%

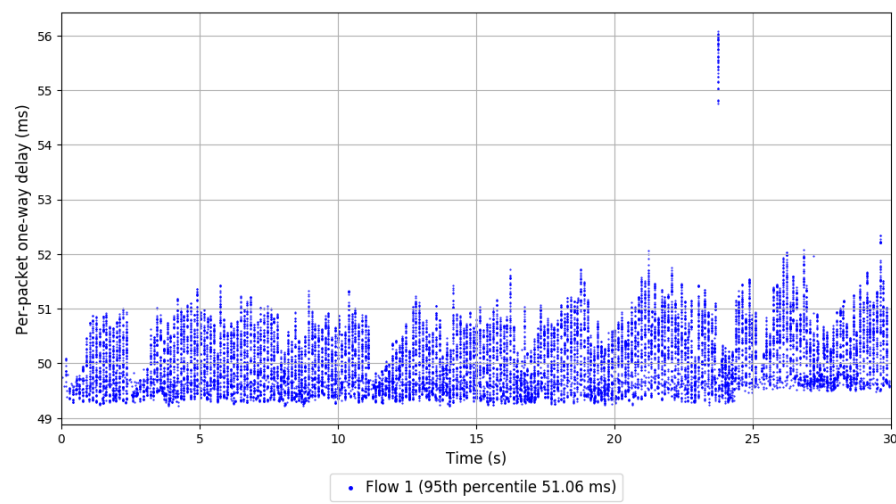
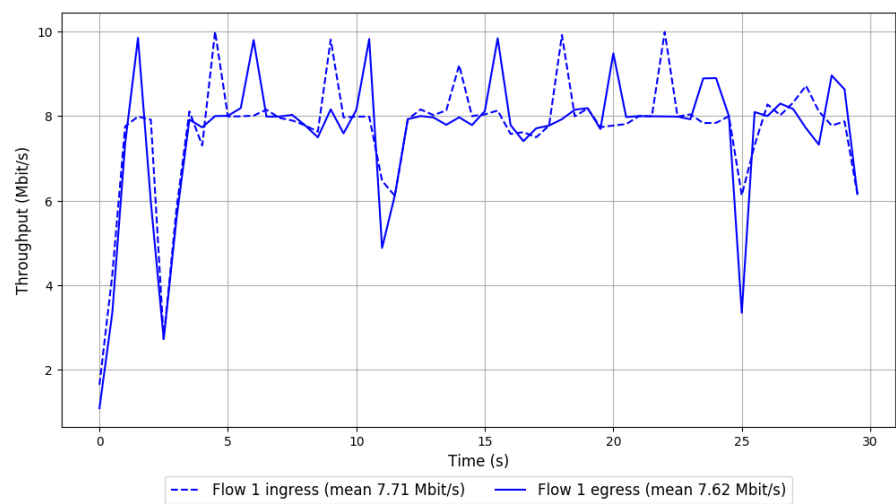
-- Flow 1:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 51.064 ms

Loss rate: 1.23%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-01-30 20:29:56

End at: 2018-01-30 20:30:26

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 51.263 ms

Loss rate: 2.44%

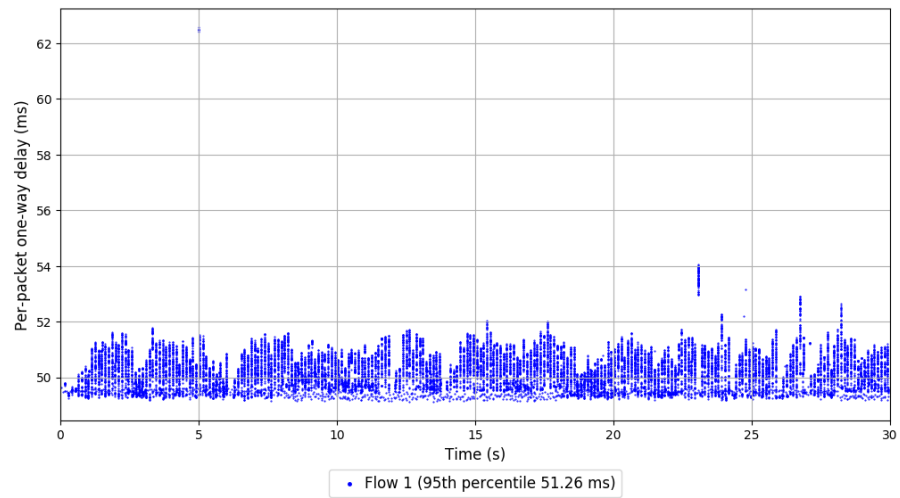
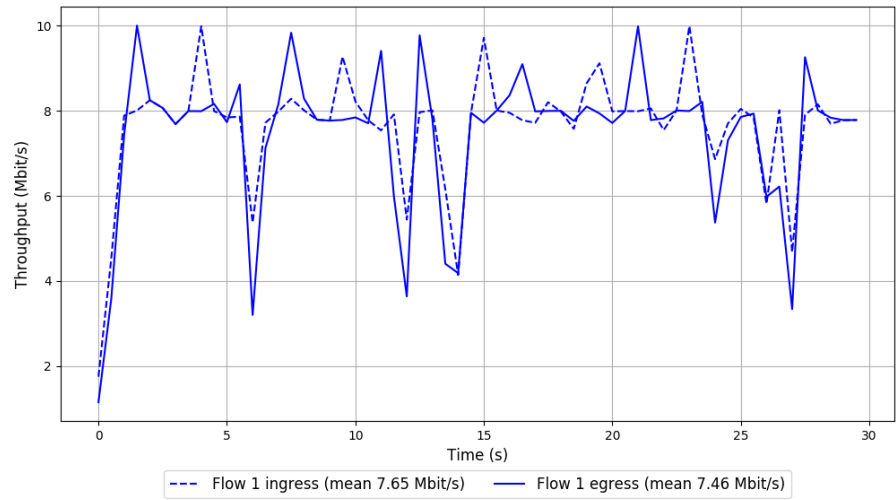
-- Flow 1:

Average throughput: 7.46 Mbit/s

95th percentile per-packet one-way delay: 51.263 ms

Loss rate: 2.44%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-01-30 20:43:45

End at: 2018-01-30 20:44:15

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.082 ms

Loss rate: 0.40%

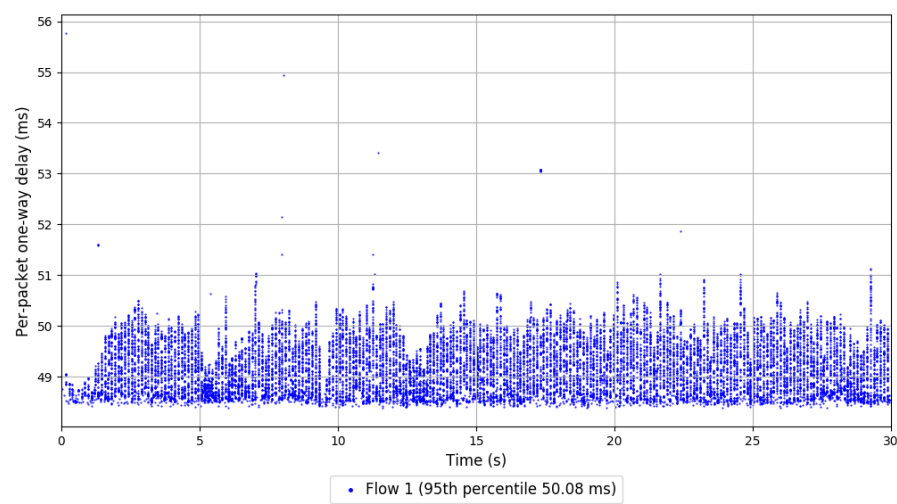
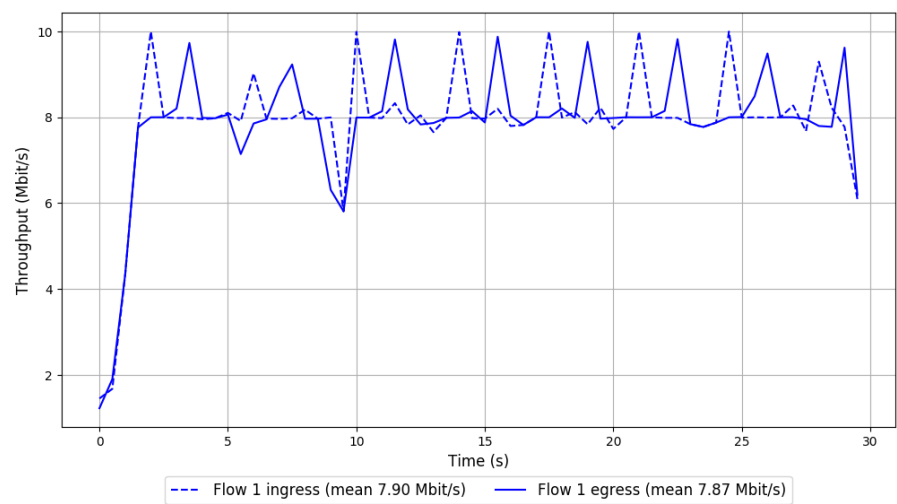
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.082 ms

Loss rate: 0.40%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-01-30 20:57:25

End at: 2018-01-30 20:57:55

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 1.63%

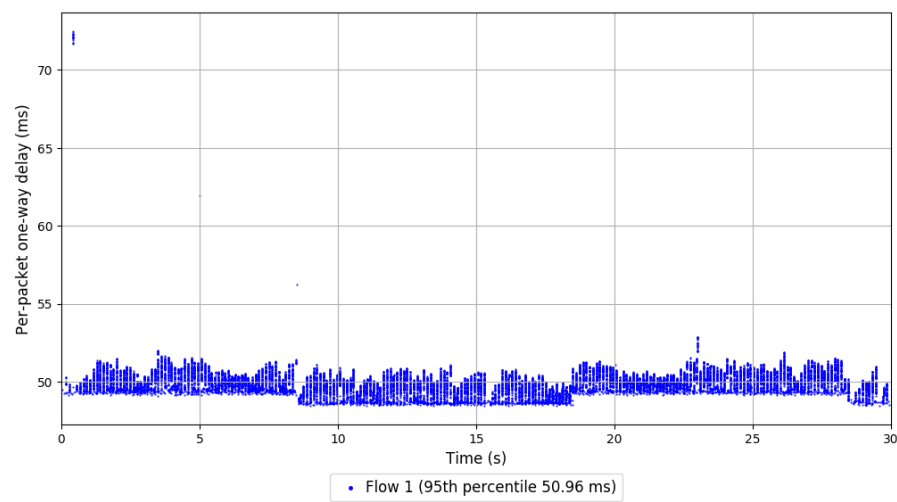
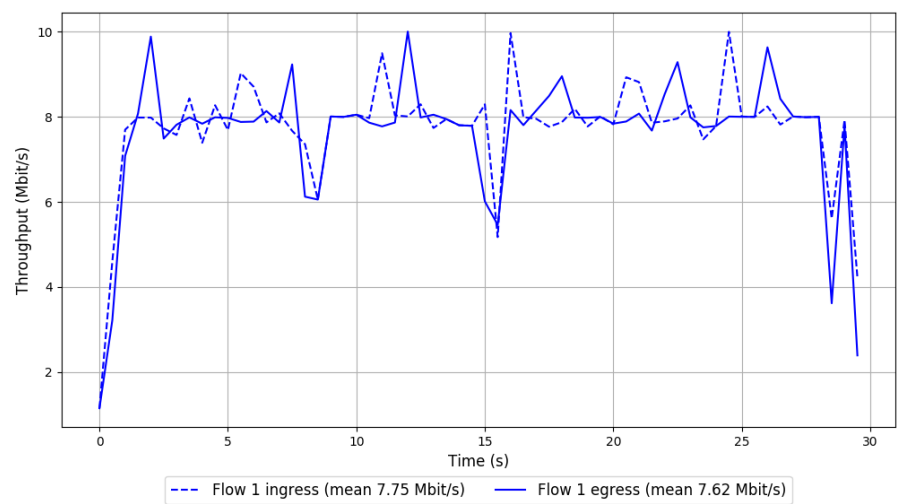
-- Flow 1:

Average throughput: 7.62 Mbit/s

95th percentile per-packet one-way delay: 50.963 ms

Loss rate: 1.63%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-01-30 21:11:02

End at: 2018-01-30 21:11:33

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.893 ms

Loss rate: 0.00%

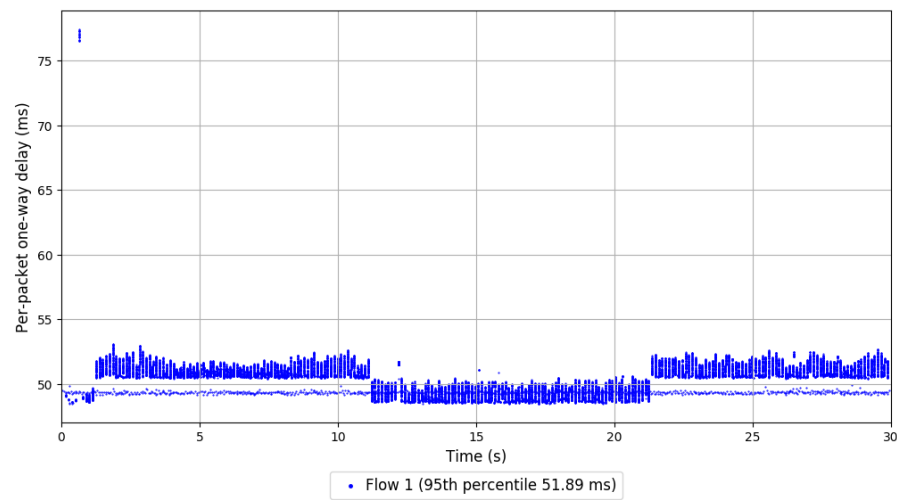
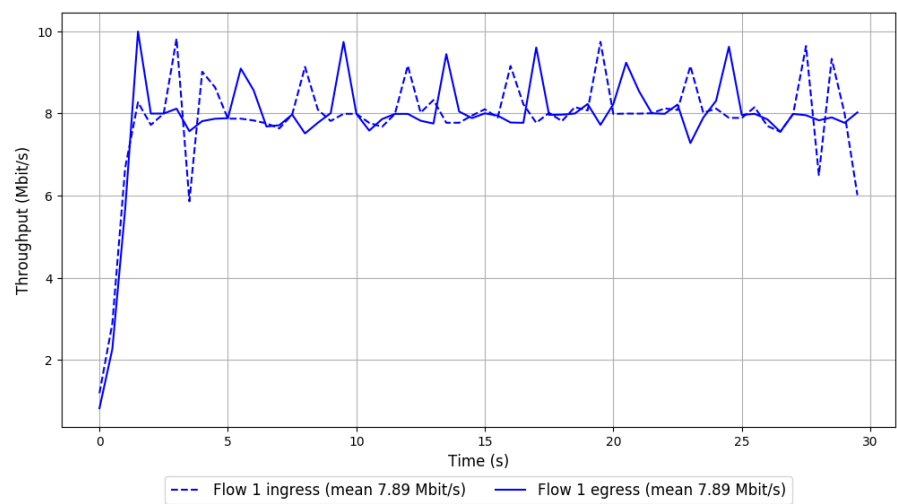
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.893 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-01-30 21:25:06

End at: 2018-01-30 21:25:36

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.151 ms

Loss rate: 0.85%

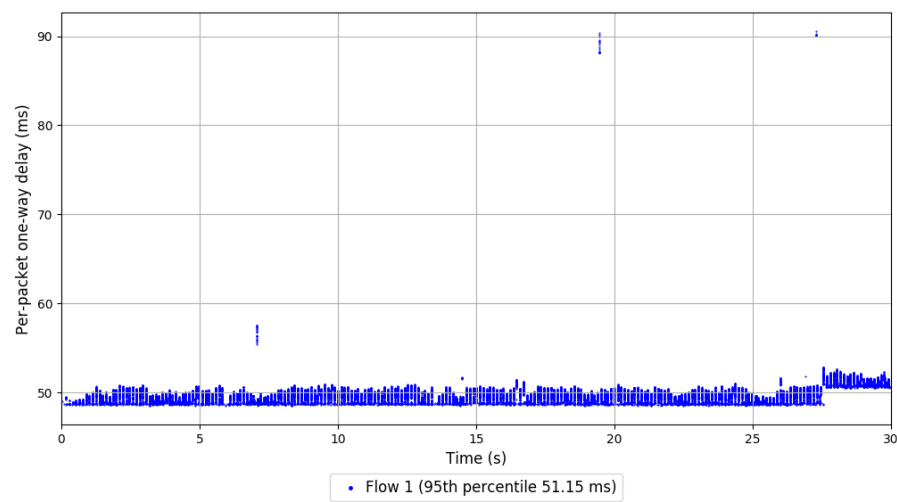
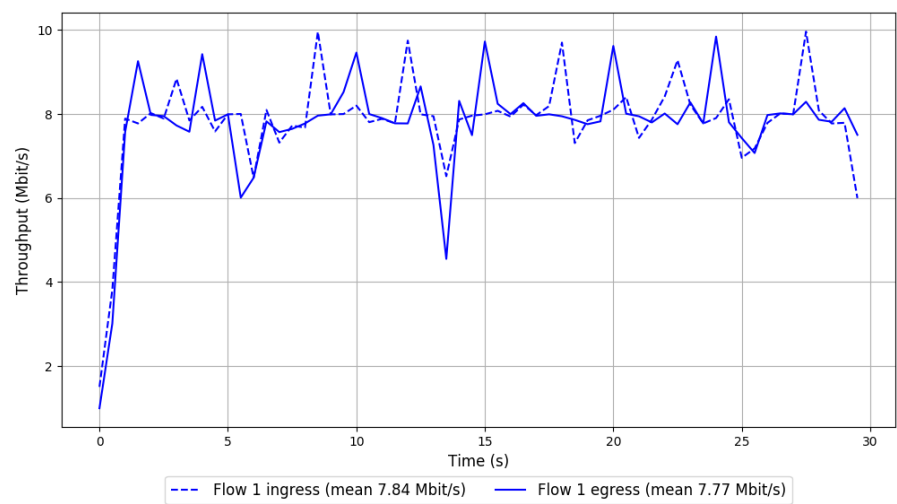
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.151 ms

Loss rate: 0.85%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-01-30 21:38:41

End at: 2018-01-30 21:39:11

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 52.157 ms

Loss rate: 1.71%

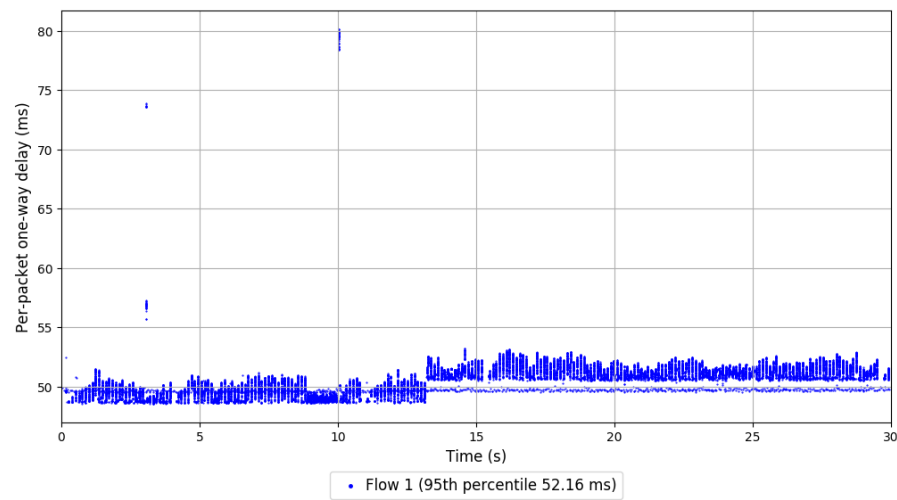
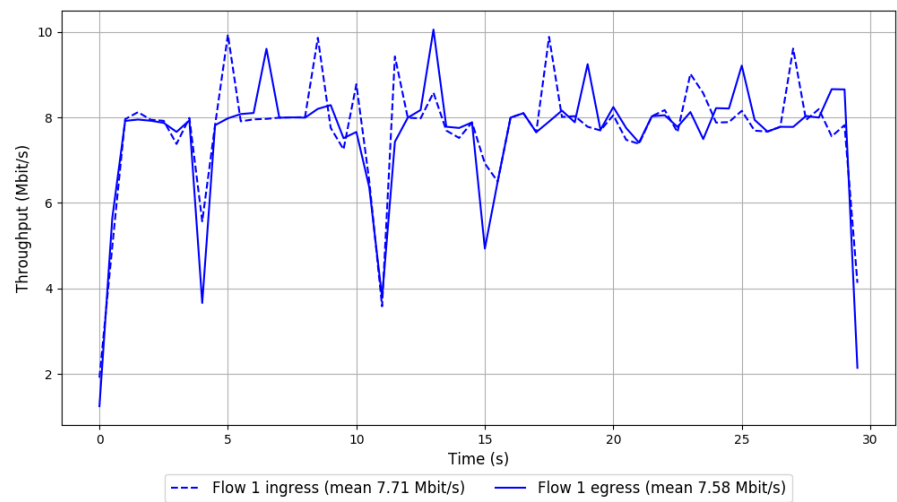
-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 52.157 ms

Loss rate: 1.71%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-01-30 21:52:19

End at: 2018-01-30 21:52:49

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 52.001 ms

Loss rate: 1.21%

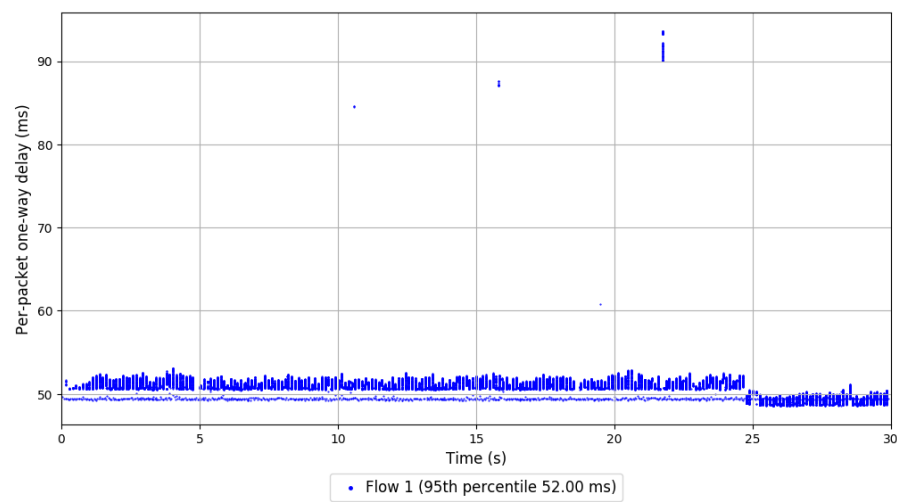
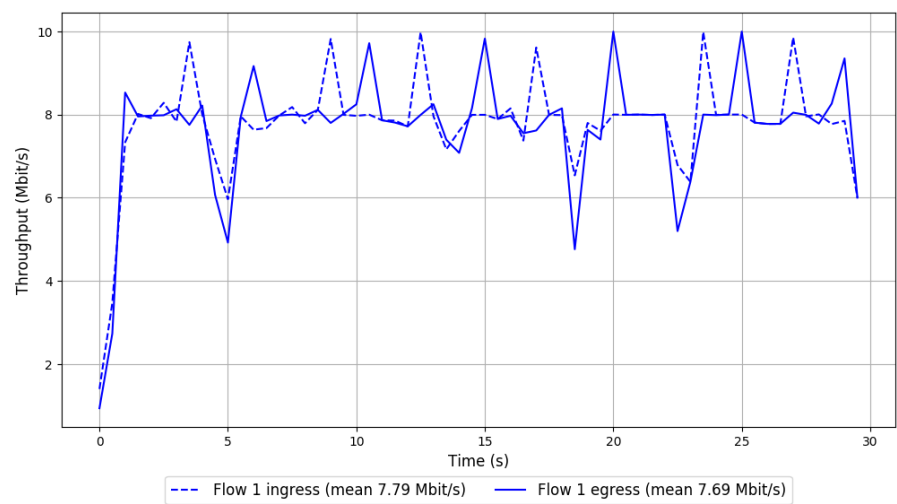
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 52.001 ms

Loss rate: 1.21%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-01-30 22:06:01

End at: 2018-01-30 22:06:31

Below is generated by plot.py at 2018-01-30 23:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 52.420 ms

Loss rate: 0.82%

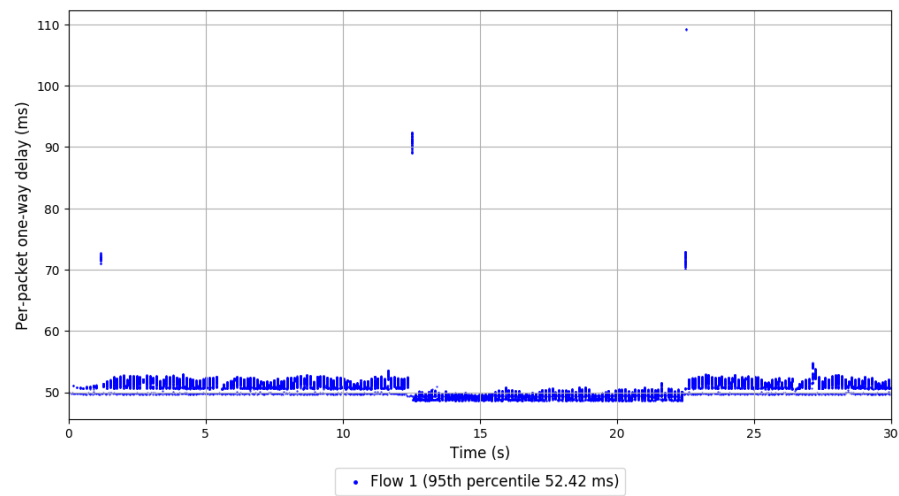
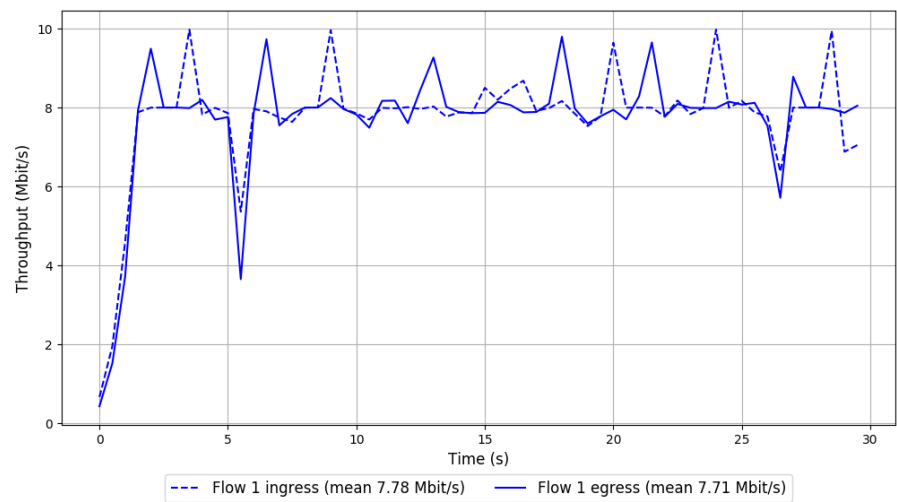
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 52.420 ms

Loss rate: 0.82%

Run 10: Report of Sprout — Data Link

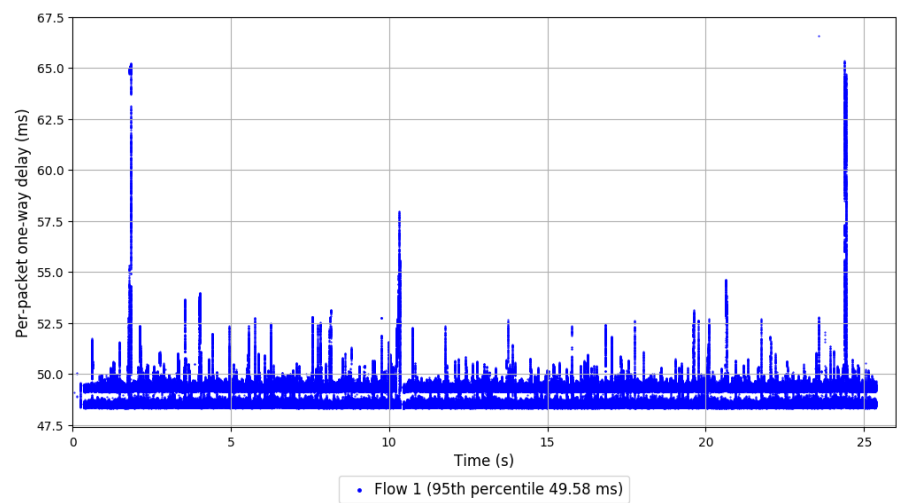
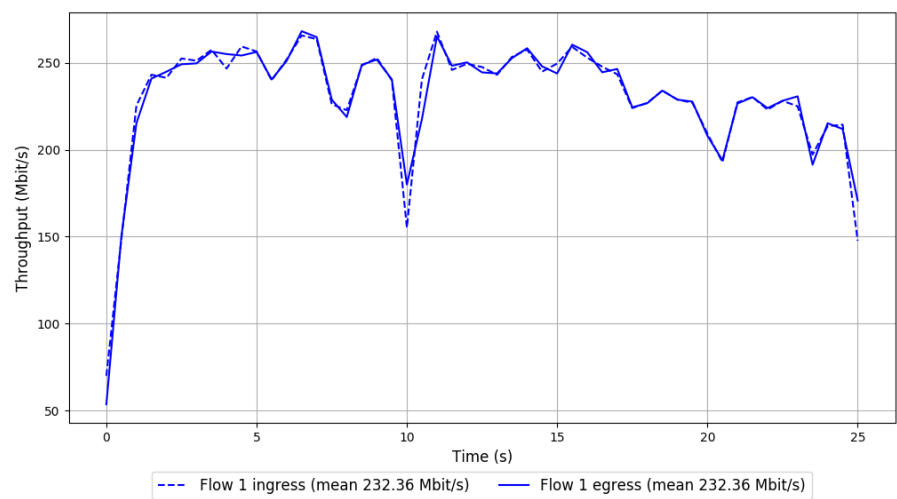


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-30 20:10:32
End at: 2018-01-30 20:11:02

# Below is generated by plot.py at 2018-01-30 23:59:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.36 Mbit/s
95th percentile per-packet one-way delay: 49.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.36 Mbit/s
95th percentile per-packet one-way delay: 49.576 ms
Loss rate: 0.00%
```

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

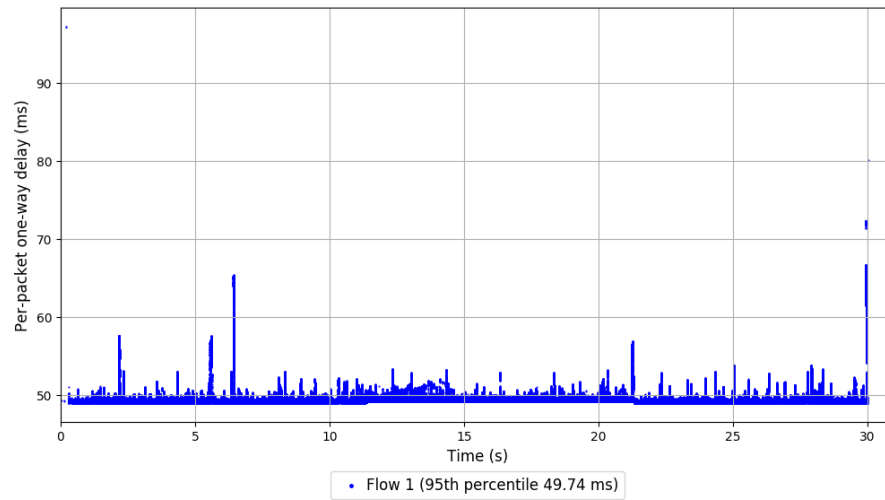
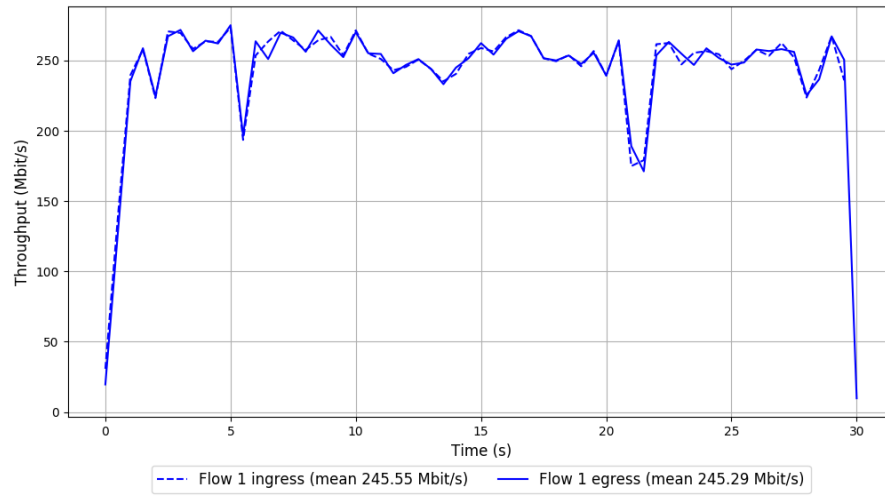


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-01-30 20:24:32
End at: 2018-01-30 20:25:02

# Below is generated by plot.py at 2018-01-31 00:01:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 245.29 Mbit/s
95th percentile per-packet one-way delay: 49.739 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 245.29 Mbit/s
95th percentile per-packet one-way delay: 49.739 ms
Loss rate: 0.02%
```

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

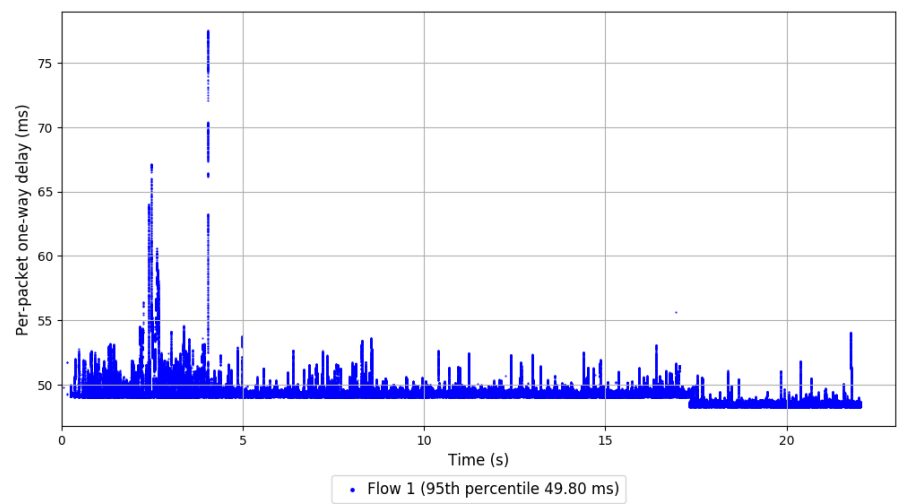
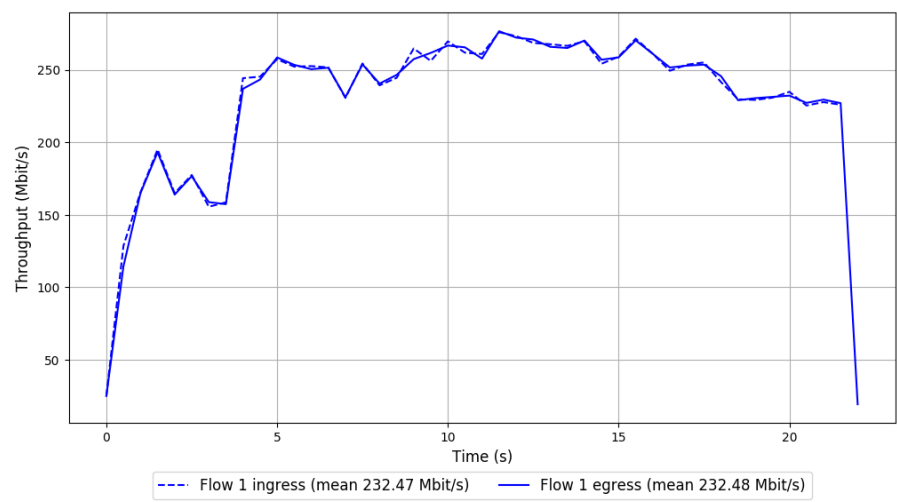


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-30 20:38:28

End at: 2018-01-30 20:38:58

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

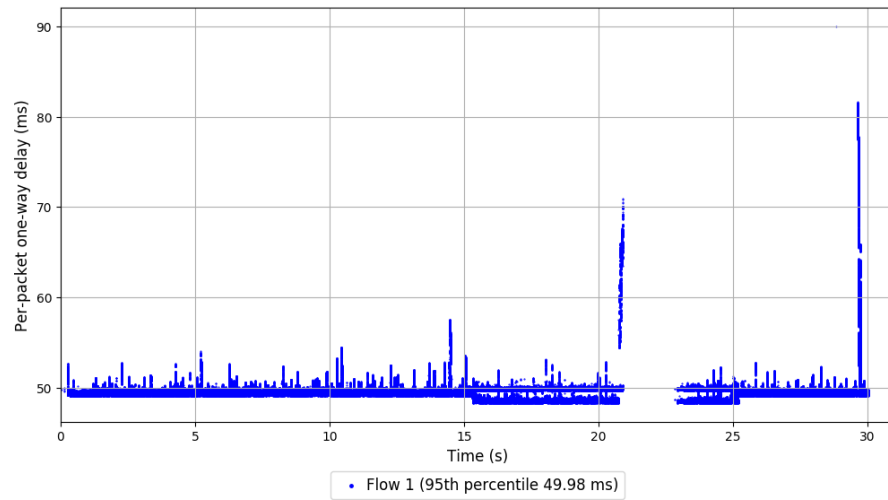
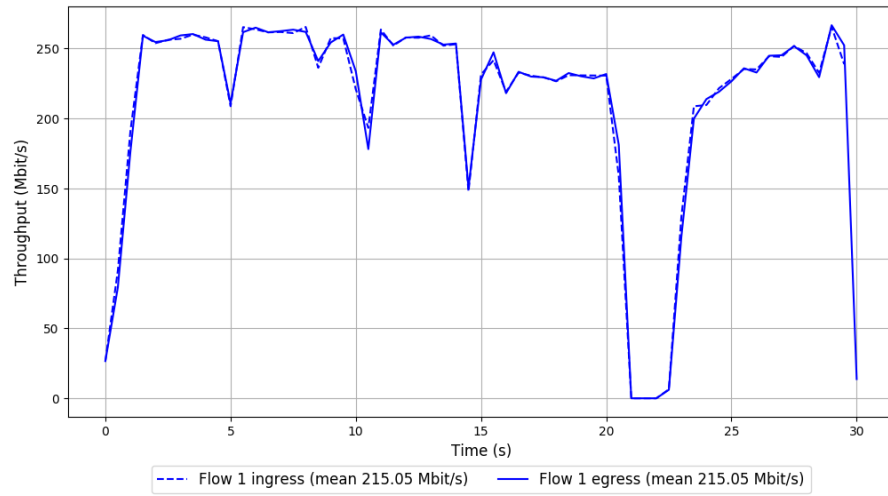


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-30 20:52:08
End at: 2018-01-30 20:52:38

# Below is generated by plot.py at 2018-01-31 00:01:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 215.05 Mbit/s
95th percentile per-packet one-way delay: 49.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.05 Mbit/s
95th percentile per-packet one-way delay: 49.981 ms
Loss rate: 0.00%
```

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

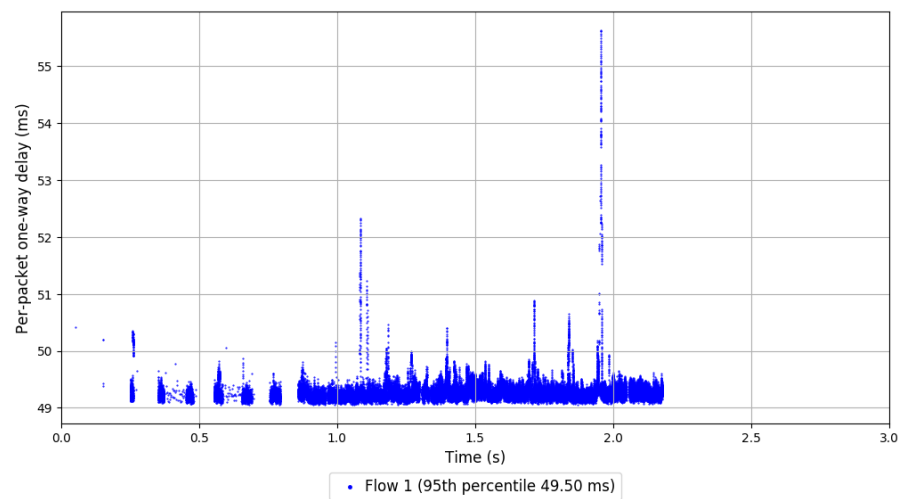
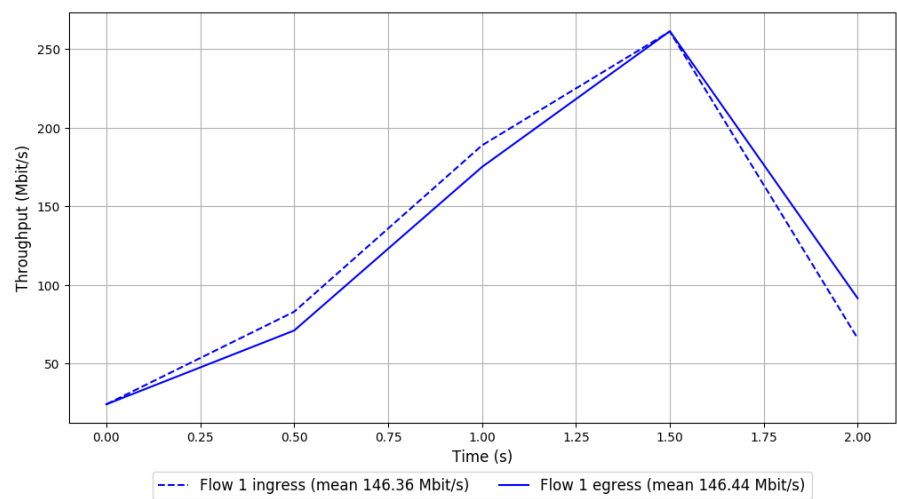


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-30 21:06:18

End at: 2018-01-30 21:06:48

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

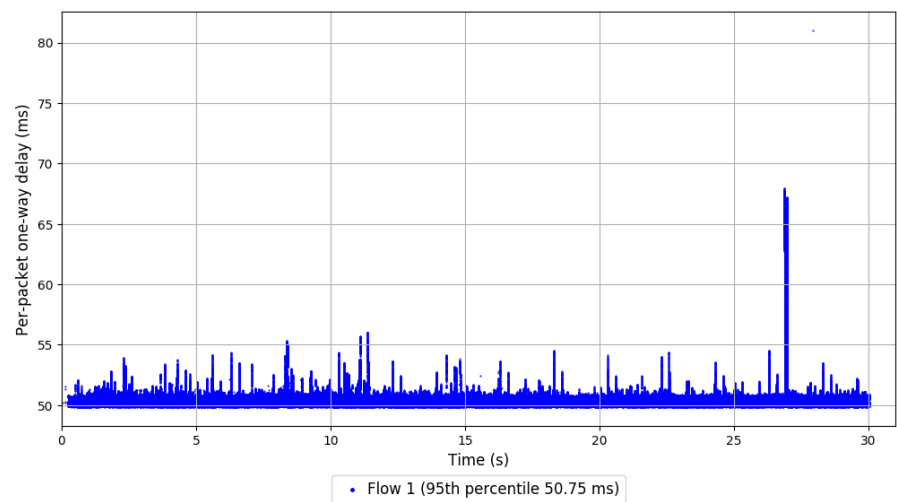
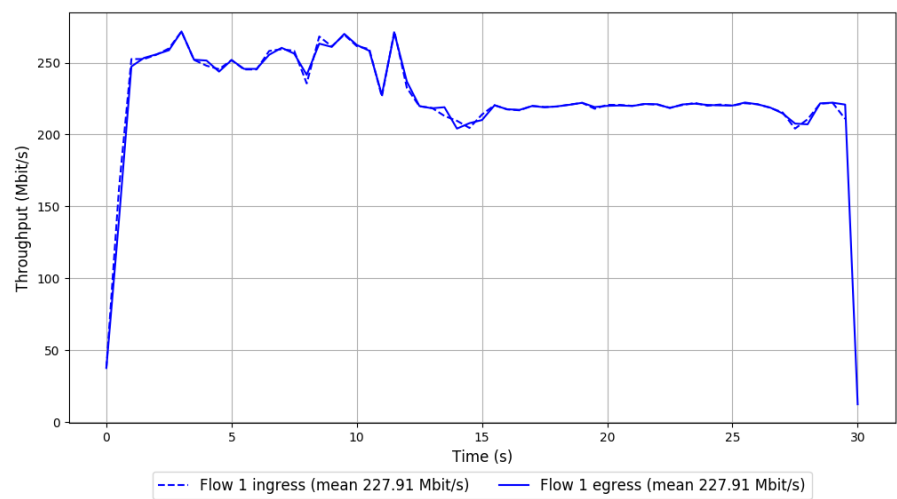


```
Run 6: Statistics of TaoVA-100x

Start at: 2018-01-30 21:19:42
End at: 2018-01-30 21:20:12

# Below is generated by plot.py at 2018-01-31 00:01:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.91 Mbit/s
95th percentile per-packet one-way delay: 50.751 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.91 Mbit/s
95th percentile per-packet one-way delay: 50.751 ms
Loss rate: 0.00%
```

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

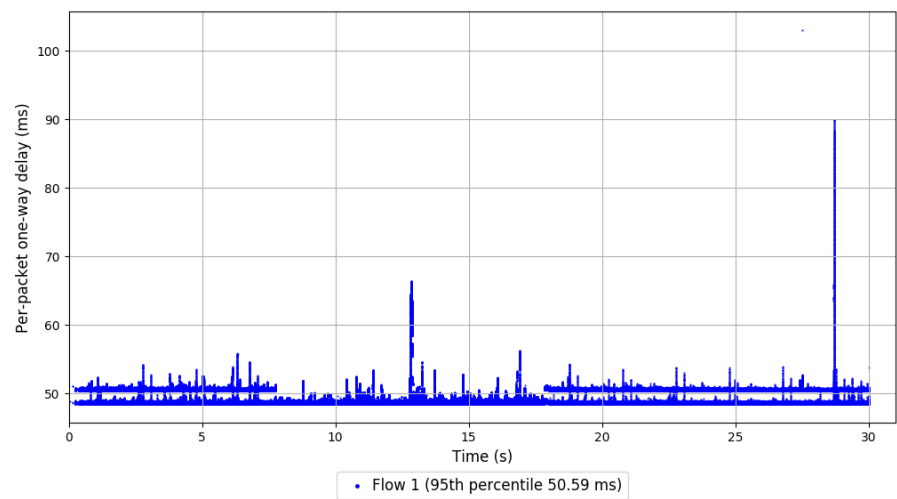
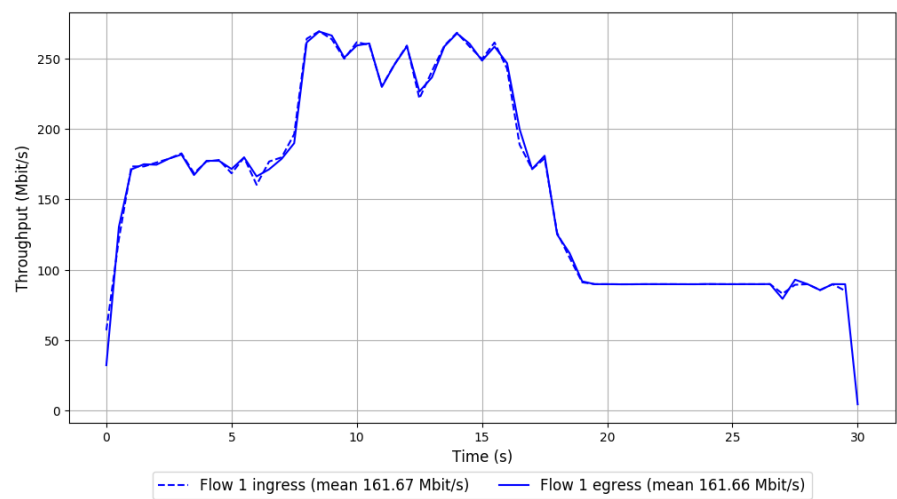


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-01-30 21:33:26
End at: 2018-01-30 21:33:56

# Below is generated by plot.py at 2018-01-31 00:01:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 161.66 Mbit/s
95th percentile per-packet one-way delay: 50.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 161.66 Mbit/s
95th percentile per-packet one-way delay: 50.594 ms
Loss rate: 0.00%
```

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

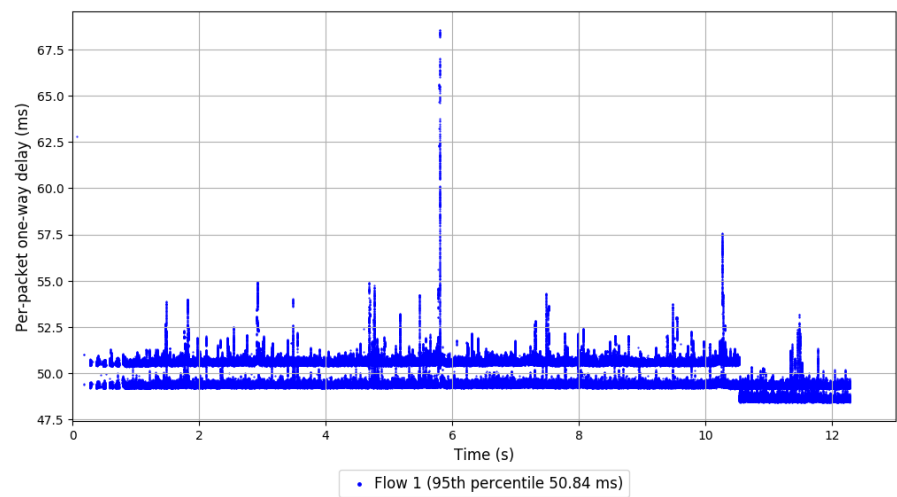
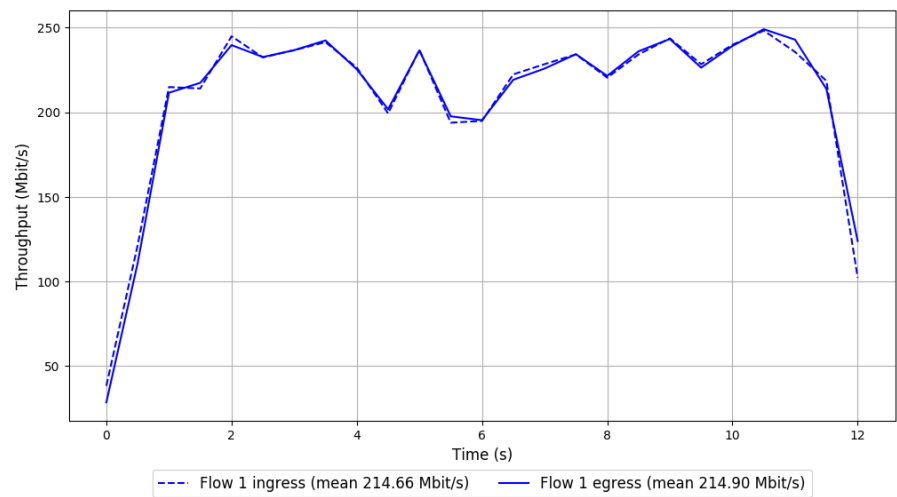


Run 8: Statistics of TaoVA-100x

Start at: 2018-01-30 21:47:06

End at: 2018-01-30 21:47:36

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-01-30 22:00:46

End at: 2018-01-30 22:01:16

Below is generated by plot.py at 2018-01-31 00:01:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.31 Mbit/s

95th percentile per-packet one-way delay: 50.746 ms

Loss rate: 0.00%

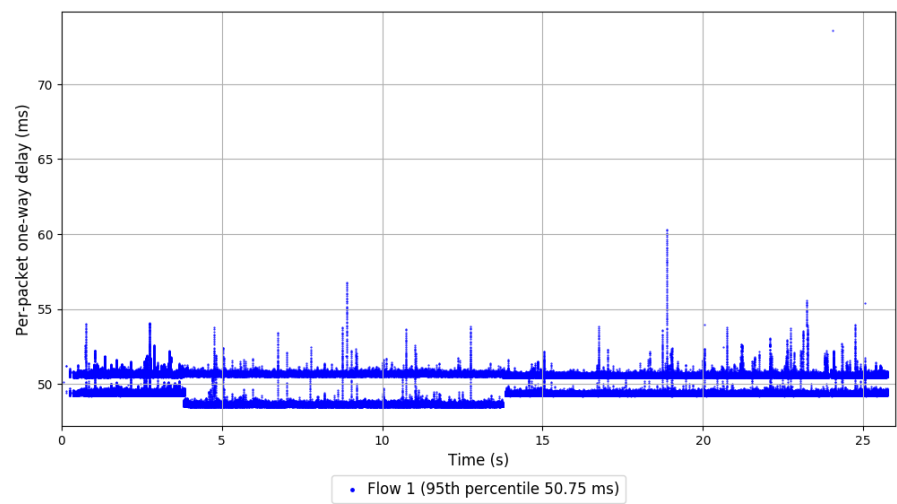
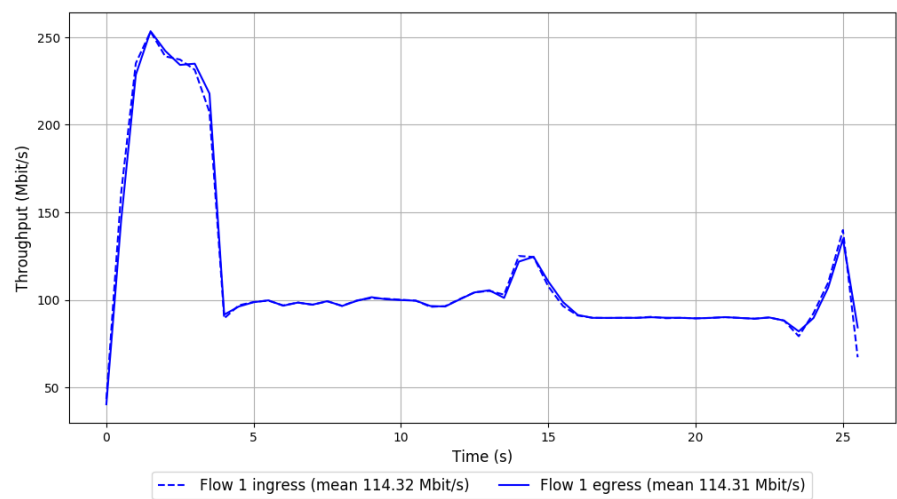
-- Flow 1:

Average throughput: 114.31 Mbit/s

95th percentile per-packet one-way delay: 50.746 ms

Loss rate: 0.00%

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

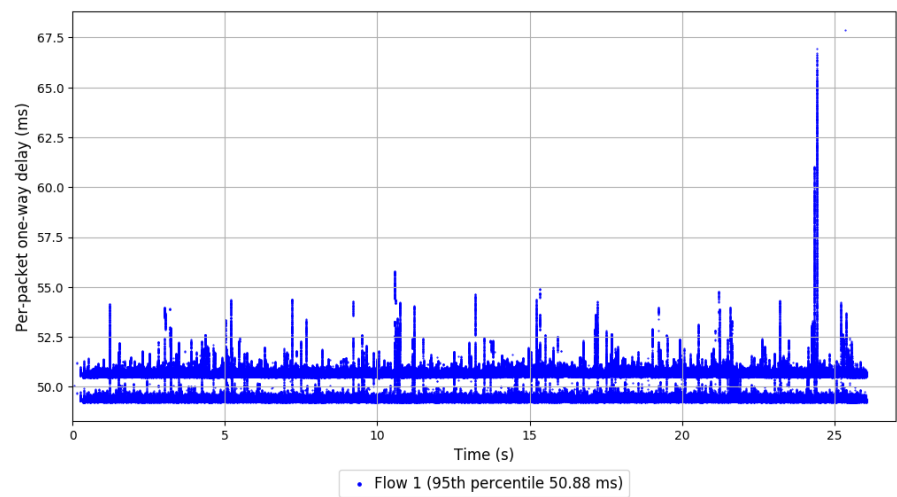
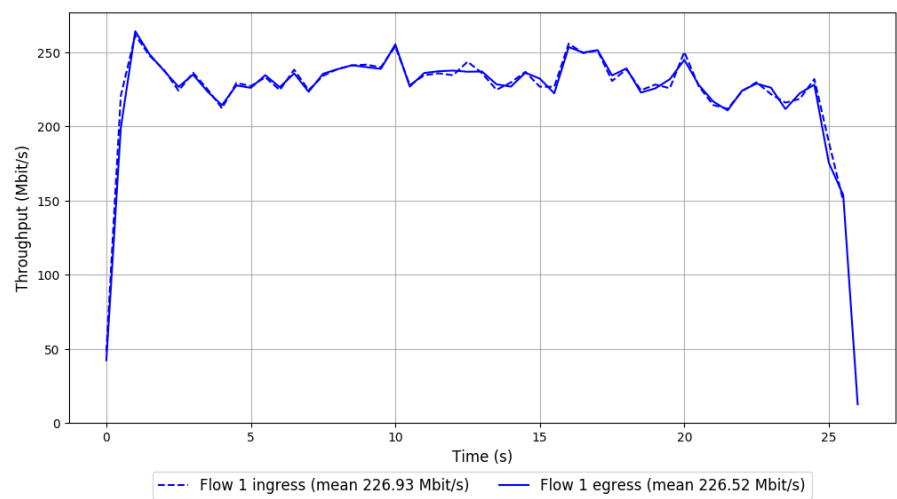


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-01-30 22:14:40
End at: 2018-01-30 22:15:10

# Below is generated by plot.py at 2018-01-31 00:03:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 226.52 Mbit/s
95th percentile per-packet one-way delay: 50.876 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 226.52 Mbit/s
95th percentile per-packet one-way delay: 50.876 ms
Loss rate: 0.18%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-01-30 20:07:15

End at: 2018-01-30 20:07:45

Below is generated by plot.py at 2018-01-31 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.74 Mbit/s

95th percentile per-packet one-way delay: 61.030 ms

Loss rate: 0.55%

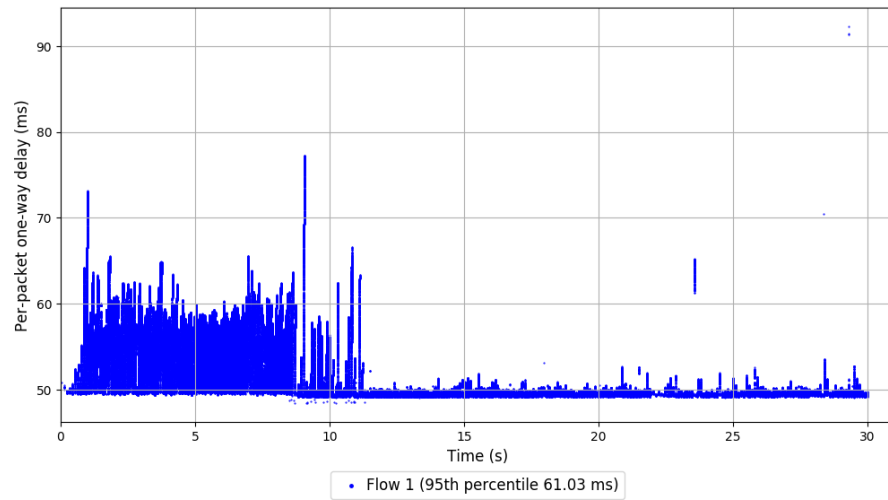
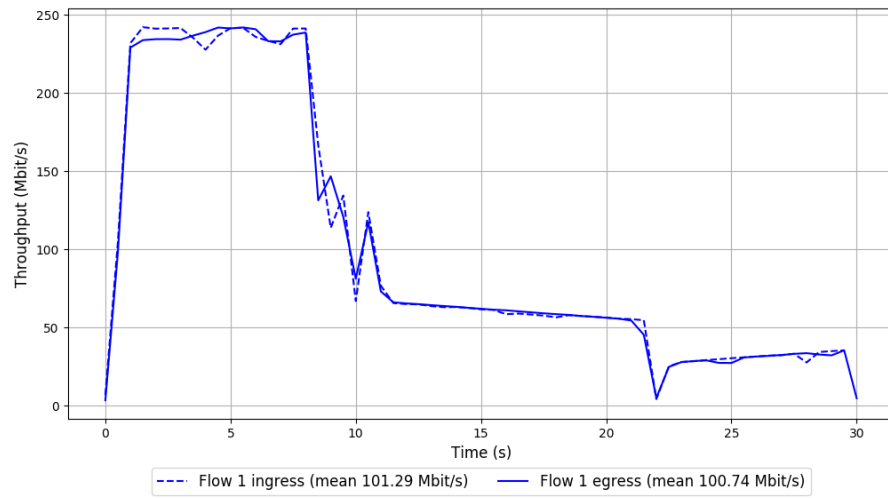
-- Flow 1:

Average throughput: 100.74 Mbit/s

95th percentile per-packet one-way delay: 61.030 ms

Loss rate: 0.55%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-01-30 20:21:14

End at: 2018-01-30 20:21:44

Below is generated by plot.py at 2018-01-31 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.06 Mbit/s

95th percentile per-packet one-way delay: 57.437 ms

Loss rate: 0.49%

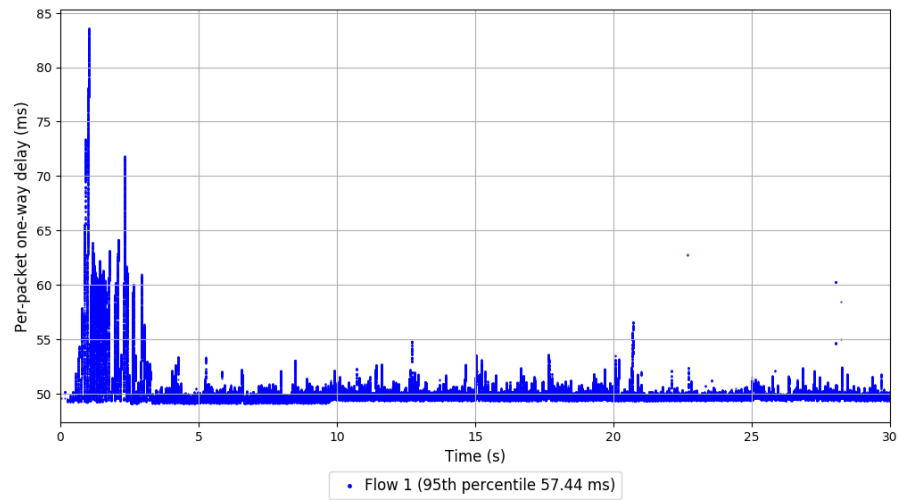
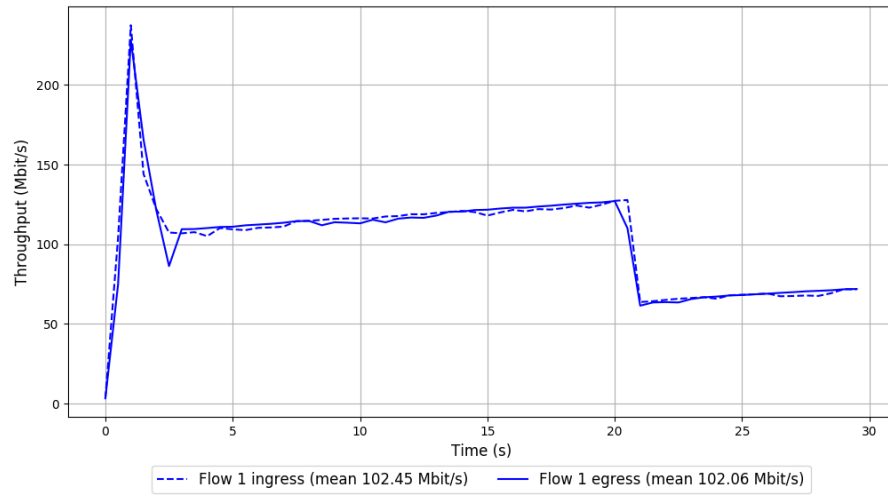
-- Flow 1:

Average throughput: 102.06 Mbit/s

95th percentile per-packet one-way delay: 57.437 ms

Loss rate: 0.49%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-01-30 20:35:15

End at: 2018-01-30 20:35:45

Below is generated by plot.py at 2018-01-31 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 50.838 ms

Loss rate: 0.63%

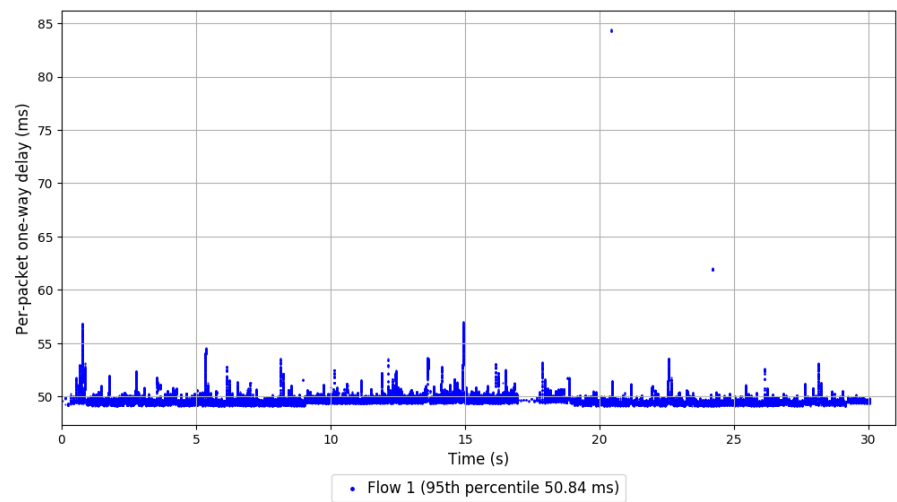
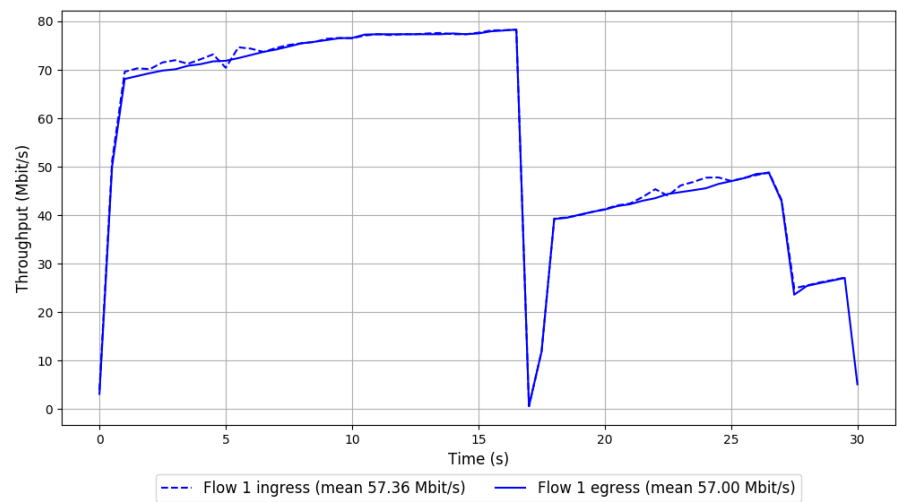
-- Flow 1:

Average throughput: 57.00 Mbit/s

95th percentile per-packet one-way delay: 50.838 ms

Loss rate: 0.63%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-01-30 20:49:02

End at: 2018-01-30 20:49:32

Below is generated by plot.py at 2018-01-31 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.21 Mbit/s

95th percentile per-packet one-way delay: 50.367 ms

Loss rate: 0.93%

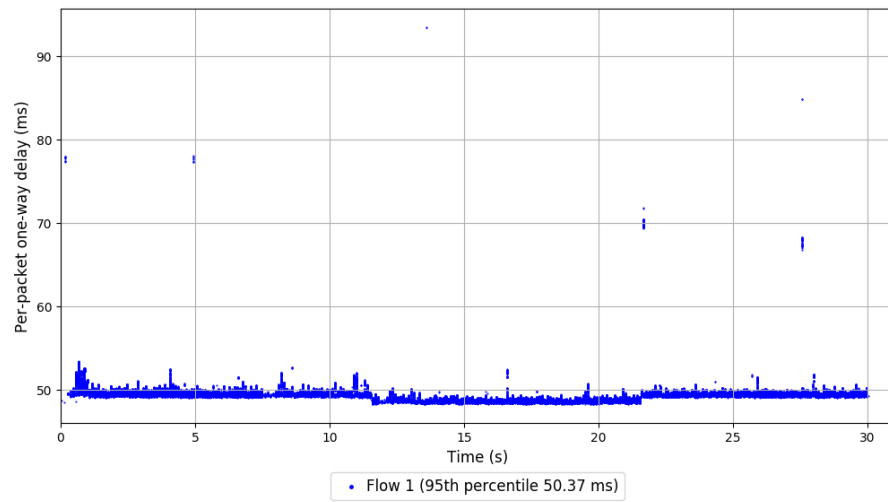
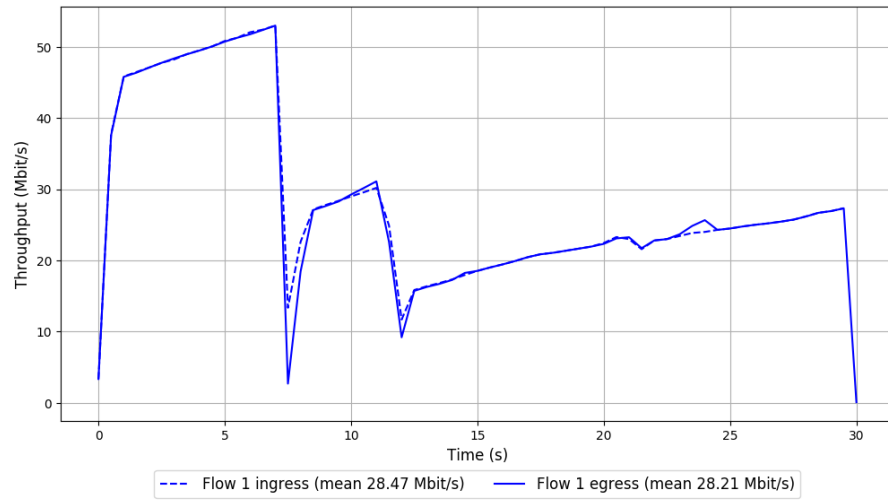
-- Flow 1:

Average throughput: 28.21 Mbit/s

95th percentile per-packet one-way delay: 50.367 ms

Loss rate: 0.93%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-01-30 21:03:03

End at: 2018-01-30 21:03:33

Below is generated by plot.py at 2018-01-31 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.60 Mbit/s

95th percentile per-packet one-way delay: 59.279 ms

Loss rate: 0.13%

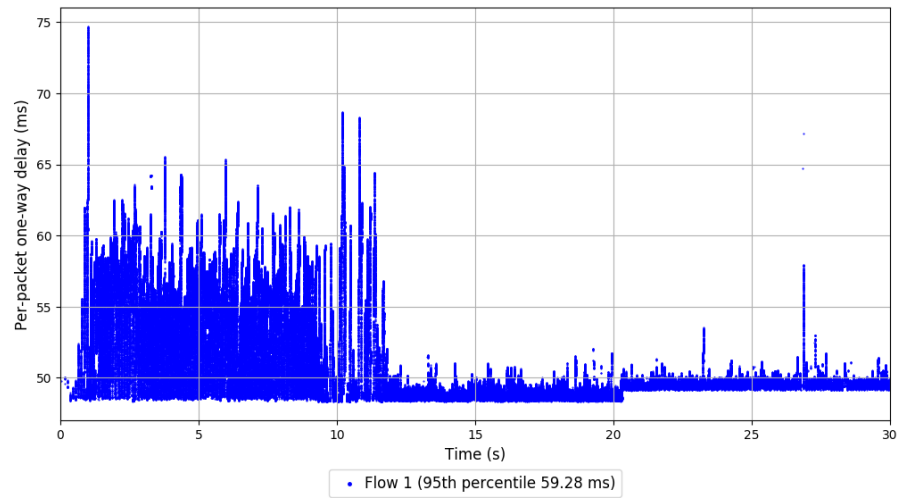
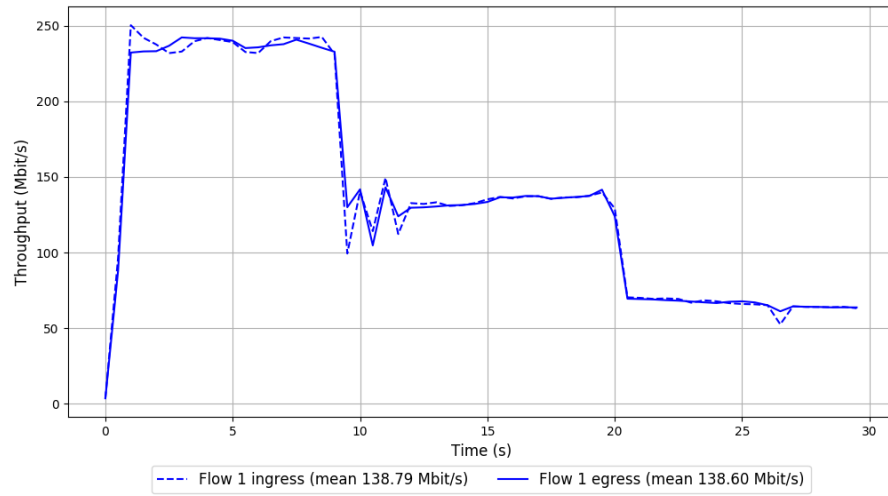
-- Flow 1:

Average throughput: 138.60 Mbit/s

95th percentile per-packet one-way delay: 59.279 ms

Loss rate: 0.13%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-01-30 21:16:34

End at: 2018-01-30 21:17:04

Below is generated by plot.py at 2018-01-31 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.21 Mbit/s

95th percentile per-packet one-way delay: 51.456 ms

Loss rate: 1.00%

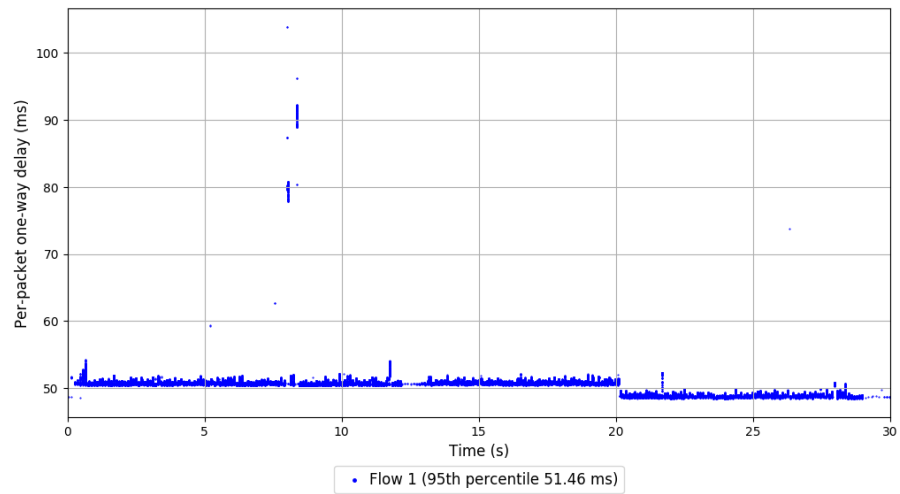
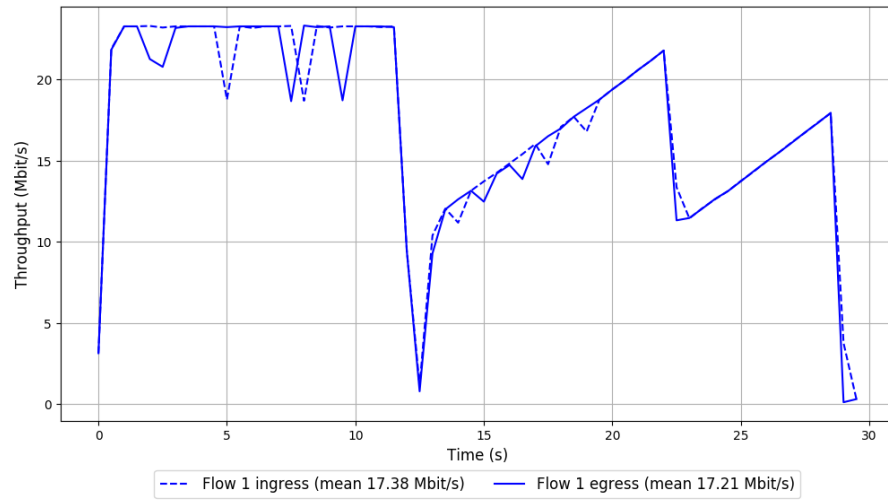
-- Flow 1:

Average throughput: 17.21 Mbit/s

95th percentile per-packet one-way delay: 51.456 ms

Loss rate: 1.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-01-30 21:30:16

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

Below is generated by plot.py at 2018-01-31 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.05 Mbit/s

95th percentile per-packet one-way delay: 52.004 ms

Loss rate: 0.58%

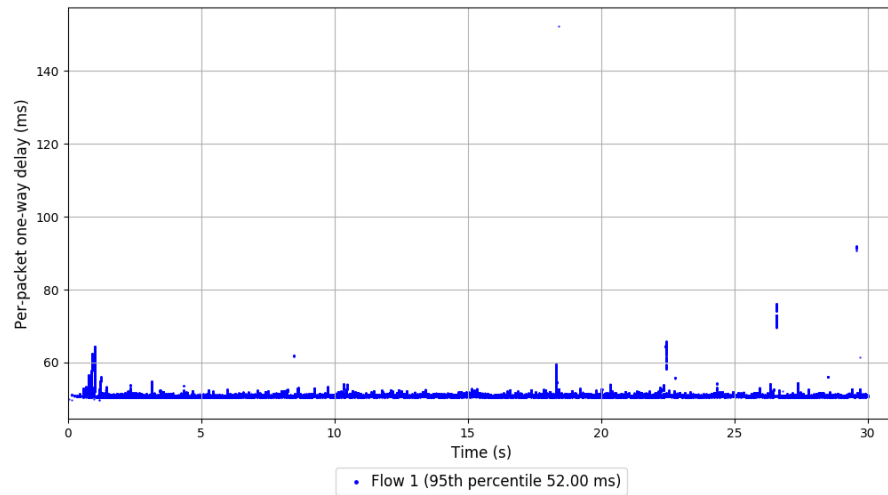
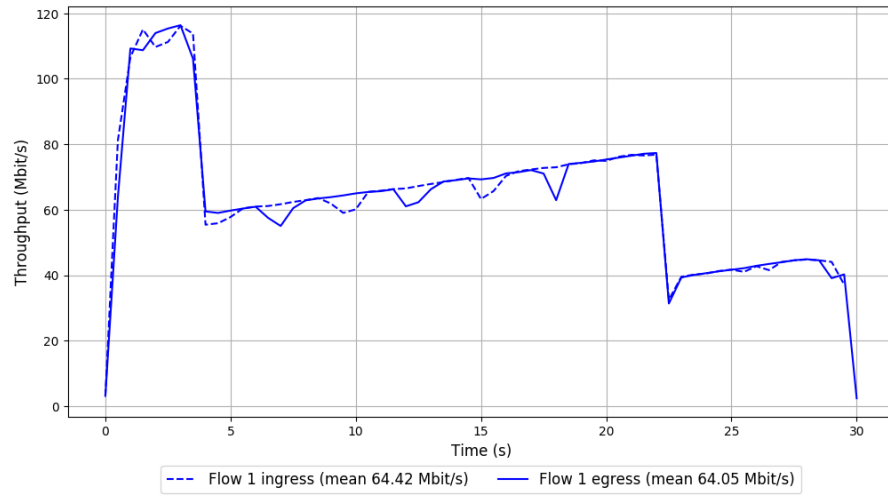
-- Flow 1:

Average throughput: 64.05 Mbit/s

95th percentile per-packet one-way delay: 52.004 ms

Loss rate: 0.58%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-01-30 21:43:51

End at: 2018-01-30 21:44:21

Below is generated by plot.py at 2018-01-31 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.64 Mbit/s

95th percentile per-packet one-way delay: 61.134 ms

Loss rate: 0.30%

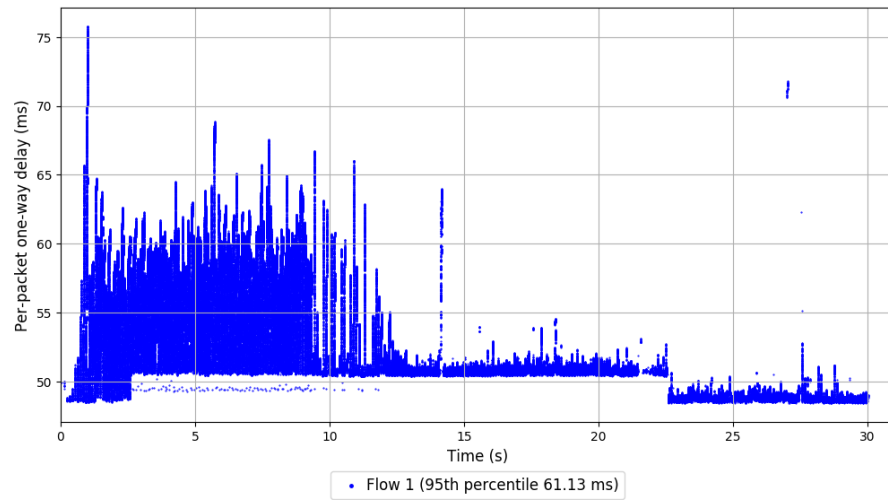
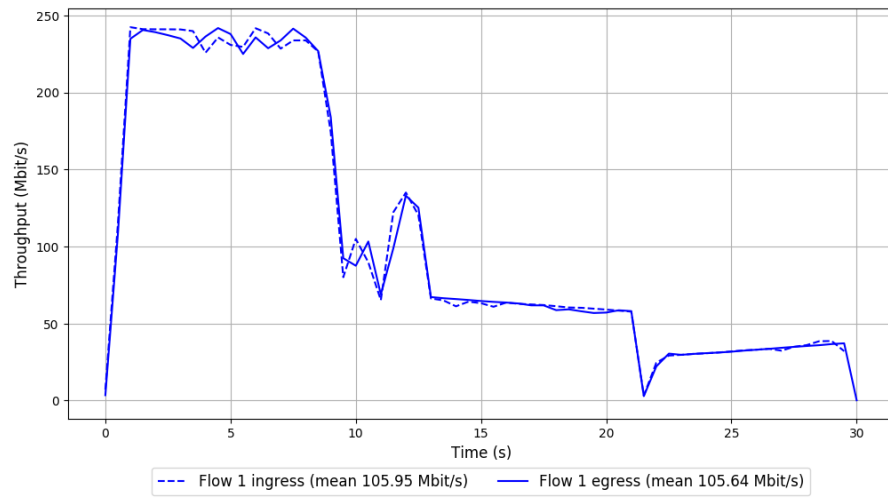
-- Flow 1:

Average throughput: 105.64 Mbit/s

95th percentile per-packet one-way delay: 61.134 ms

Loss rate: 0.30%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-01-30 21:57:30

End at: 2018-01-30 21:58:00

Below is generated by plot.py at 2018-01-31 00:03:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.36 Mbit/s

95th percentile per-packet one-way delay: 51.423 ms

Loss rate: 0.13%

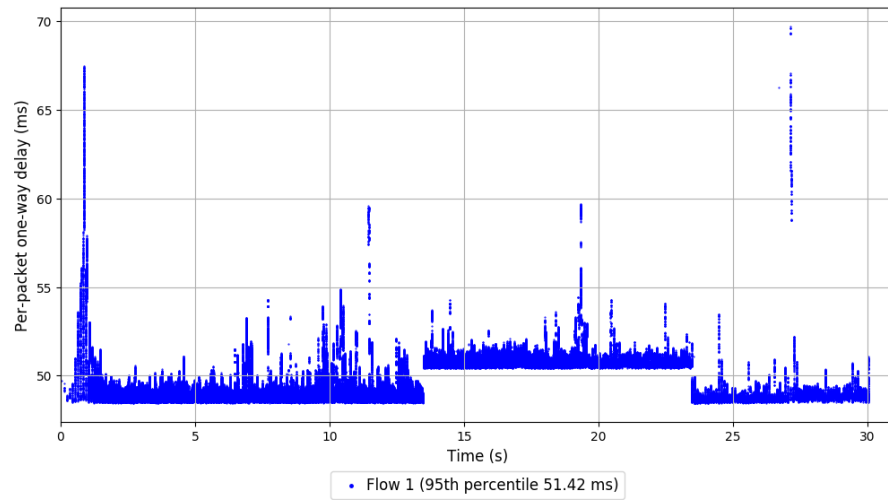
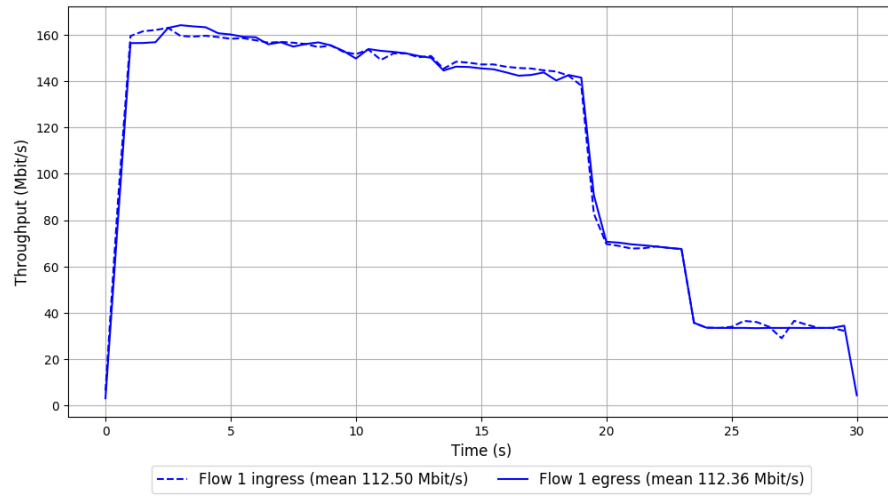
-- Flow 1:

Average throughput: 112.36 Mbit/s

95th percentile per-packet one-way delay: 51.423 ms

Loss rate: 0.13%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-01-30 22:11:20

End at: 2018-01-30 22:11:50

Below is generated by plot.py at 2018-01-31 00:04:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.99 Mbit/s

95th percentile per-packet one-way delay: 52.147 ms

Loss rate: 0.01%

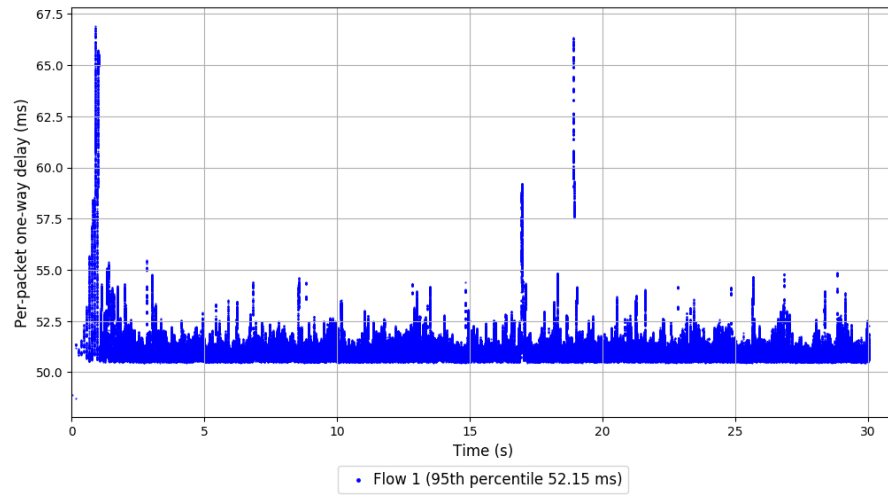
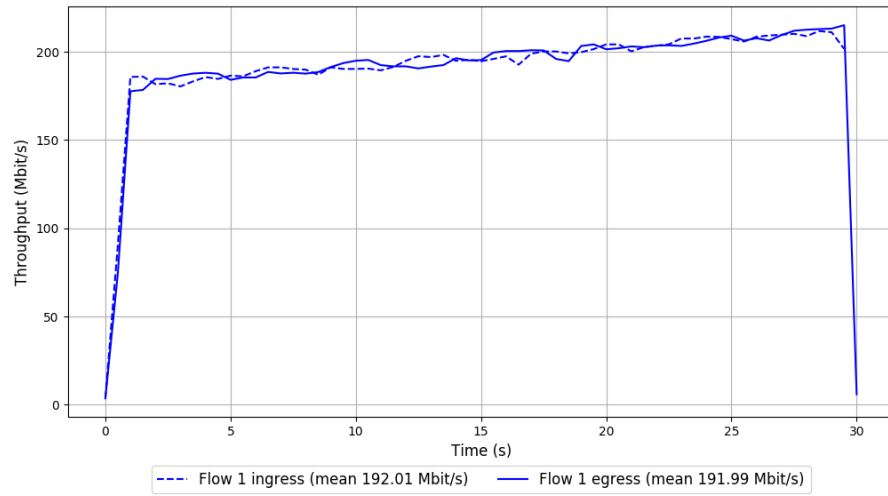
-- Flow 1:

Average throughput: 191.99 Mbit/s

95th percentile per-packet one-way delay: 52.147 ms

Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-01-30 20:09:41

End at: 2018-01-30 20:10:11

Below is generated by plot.py at 2018-01-31 00:05:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.55 Mbit/s

95th percentile per-packet one-way delay: 216.671 ms

Loss rate: 0.70%

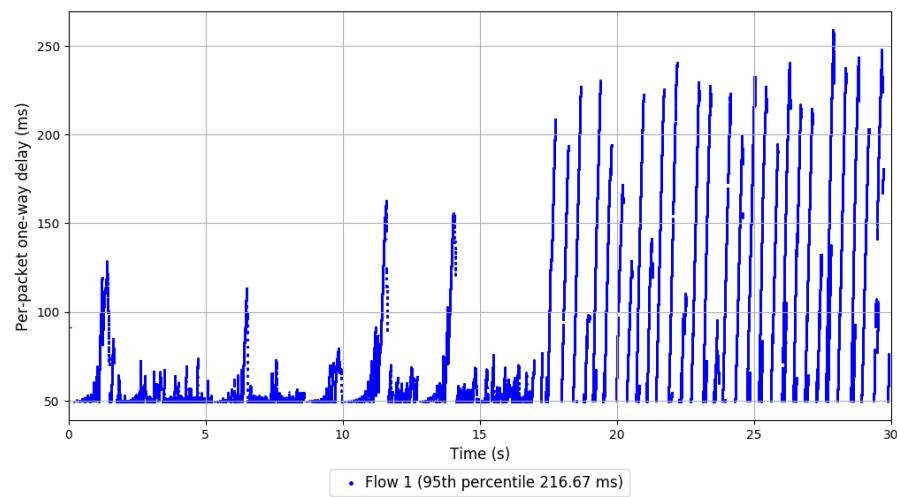
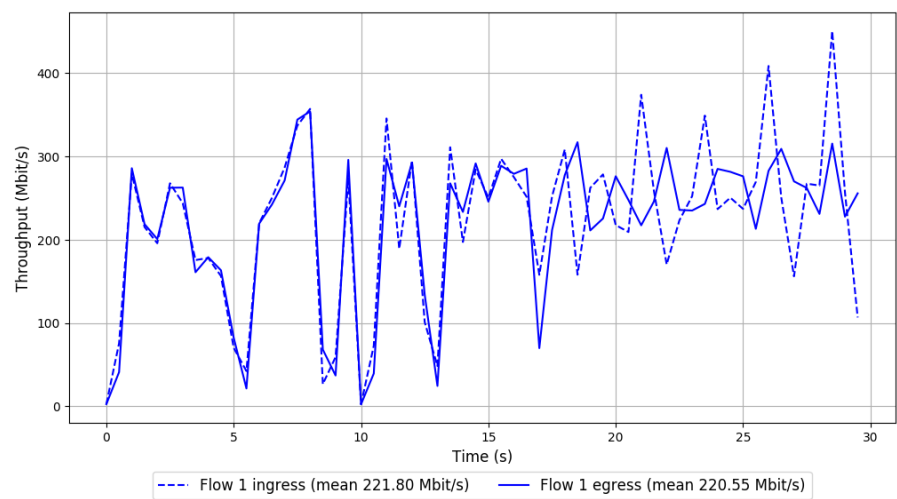
-- Flow 1:

Average throughput: 220.55 Mbit/s

95th percentile per-packet one-way delay: 216.671 ms

Loss rate: 0.70%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-01-30 20:23:40

End at: 2018-01-30 20:24:10

Below is generated by plot.py at 2018-01-31 00:06:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.81 Mbit/s

95th percentile per-packet one-way delay: 88.696 ms

Loss rate: 0.25%

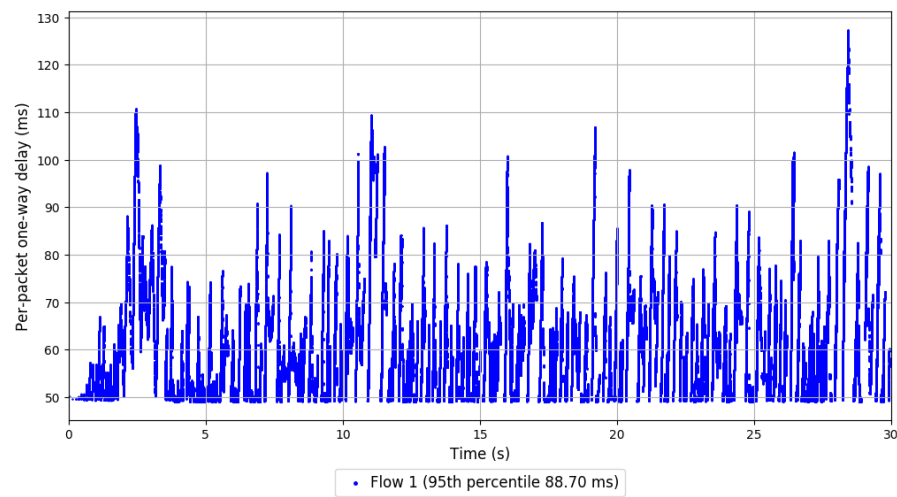
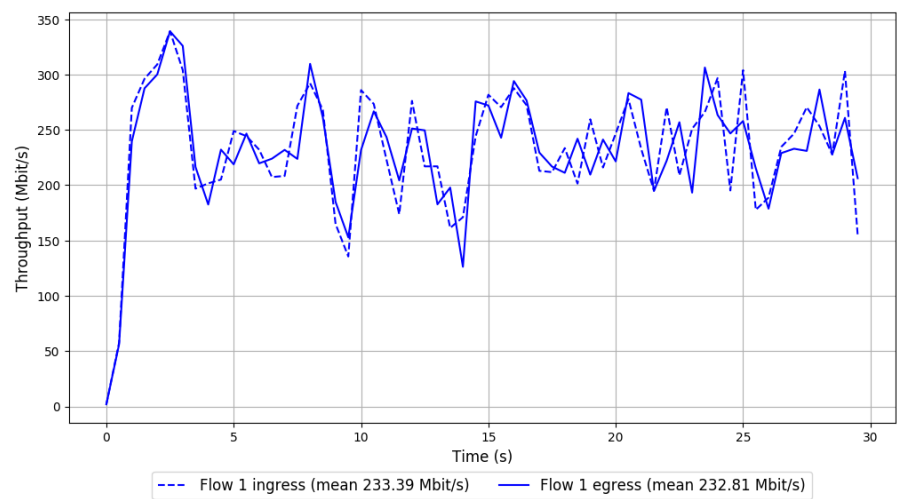
-- Flow 1:

Average throughput: 232.81 Mbit/s

95th percentile per-packet one-way delay: 88.696 ms

Loss rate: 0.25%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-01-30 20:37:36

End at: 2018-01-30 20:38:06

Below is generated by plot.py at 2018-01-31 00:06:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.30 Mbit/s

95th percentile per-packet one-way delay: 73.317 ms

Loss rate: 0.07%

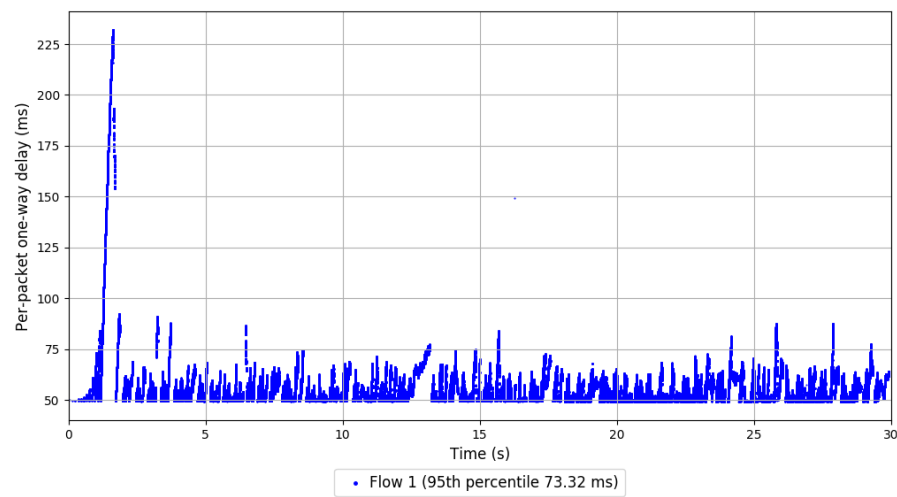
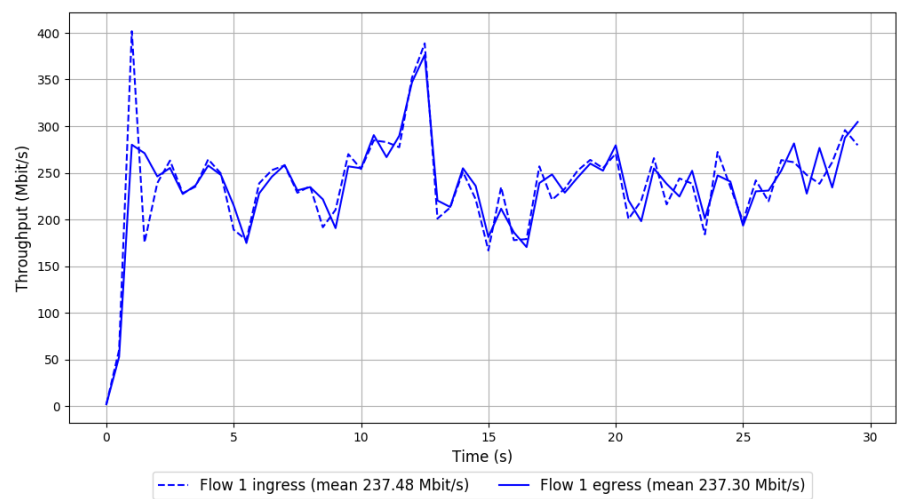
-- Flow 1:

Average throughput: 237.30 Mbit/s

95th percentile per-packet one-way delay: 73.317 ms

Loss rate: 0.07%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-01-30 20:51:19

End at: 2018-01-30 20:51:49

Below is generated by plot.py at 2018-01-31 00:06:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.30 Mbit/s

95th percentile per-packet one-way delay: 95.749 ms

Loss rate: 0.11%

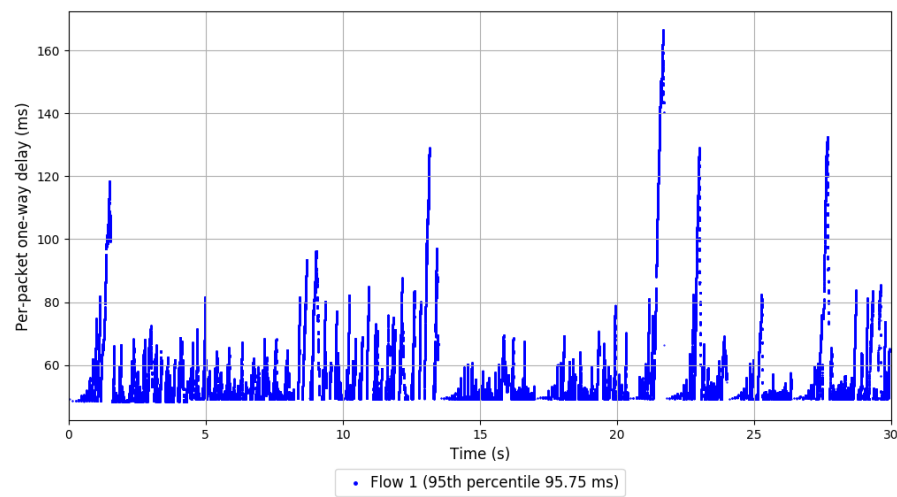
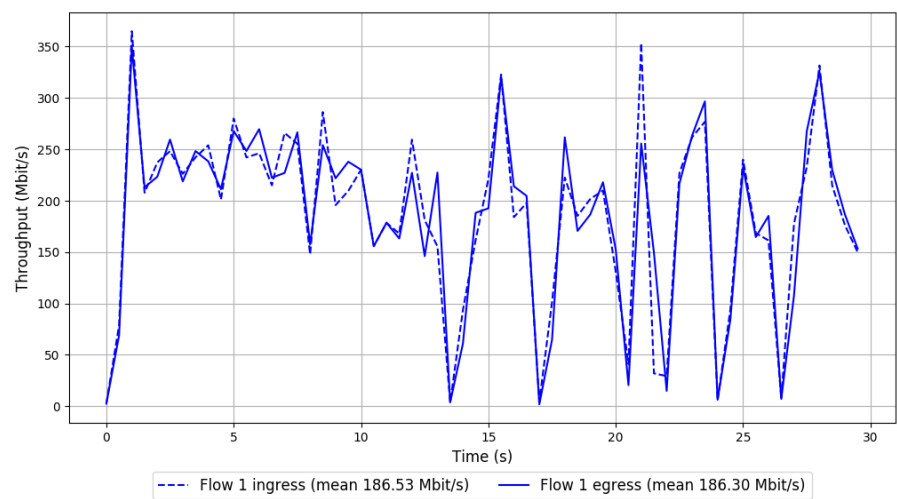
-- Flow 1:

Average throughput: 186.30 Mbit/s

95th percentile per-packet one-way delay: 95.749 ms

Loss rate: 0.11%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-01-30 21:05:28

End at: 2018-01-30 21:05:58

Below is generated by plot.py at 2018-01-31 00:06:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 234.26 Mbit/s

95th percentile per-packet one-way delay: 84.428 ms

Loss rate: 0.04%

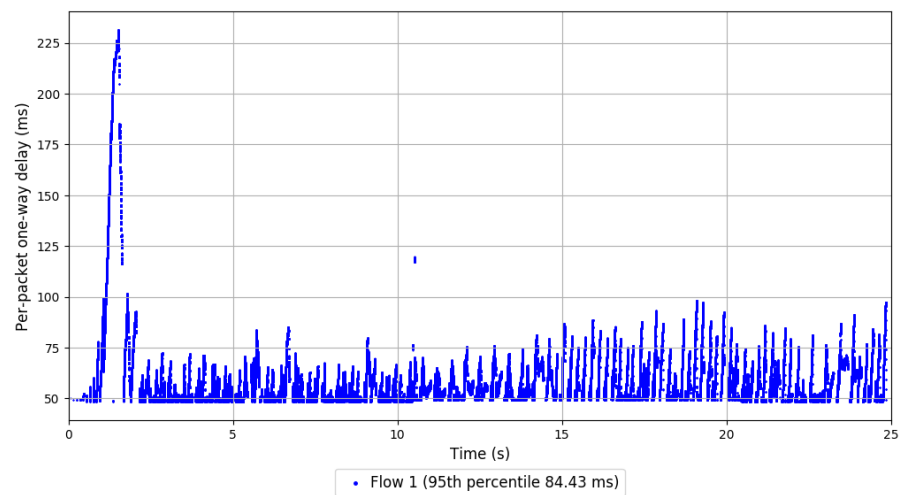
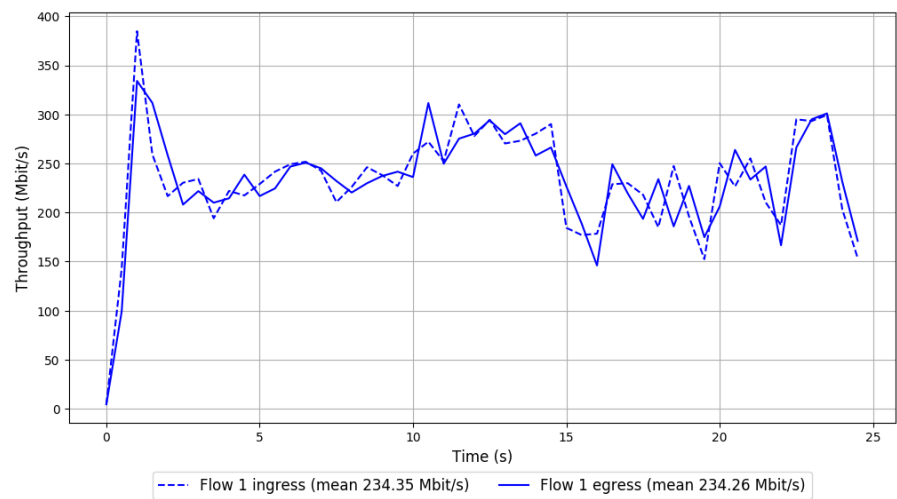
-- Flow 1:

Average throughput: 234.26 Mbit/s

95th percentile per-packet one-way delay: 84.428 ms

Loss rate: 0.04%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

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

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

Below is generated by plot.py at 2018-01-31 00:06:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.15 Mbit/s

95th percentile per-packet one-way delay: 138.016 ms

Loss rate: 0.00%

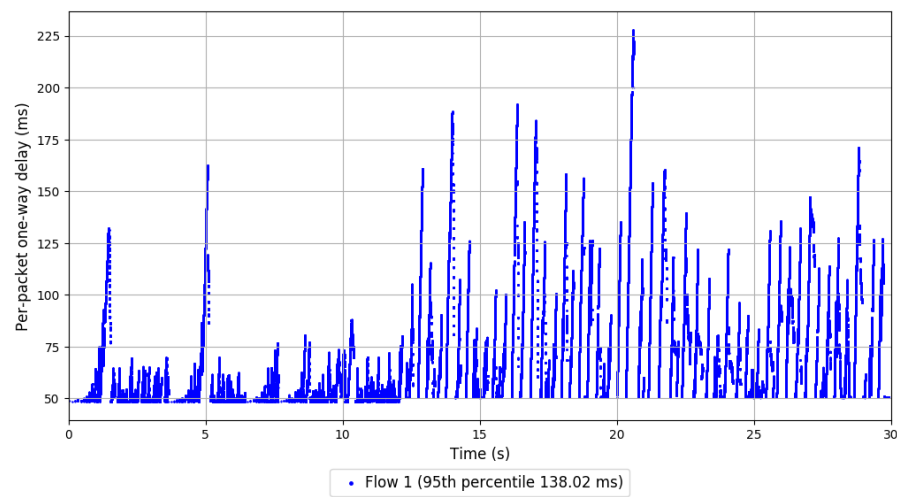
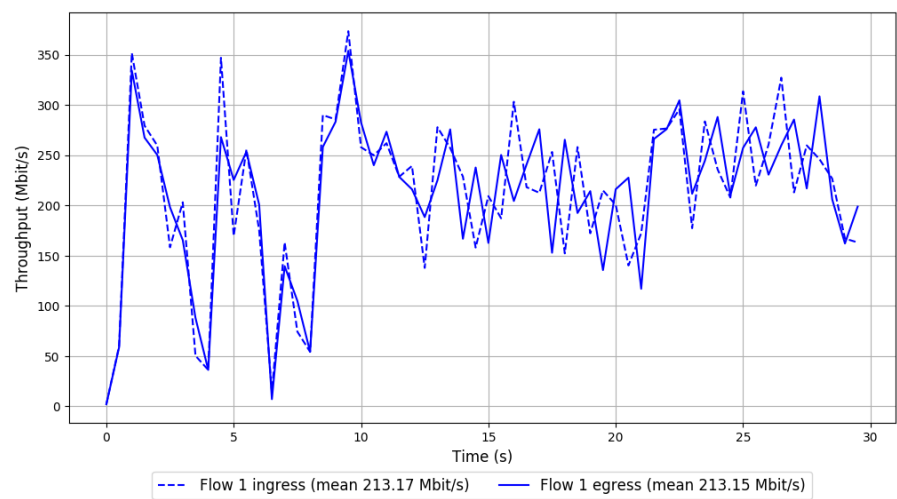
-- Flow 1:

Average throughput: 213.15 Mbit/s

95th percentile per-packet one-way delay: 138.016 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-01-30 21:32:36

End at: 2018-01-30 21:33:06

Below is generated by plot.py at 2018-01-31 00:07:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.11 Mbit/s

95th percentile per-packet one-way delay: 80.467 ms

Loss rate: 0.39%

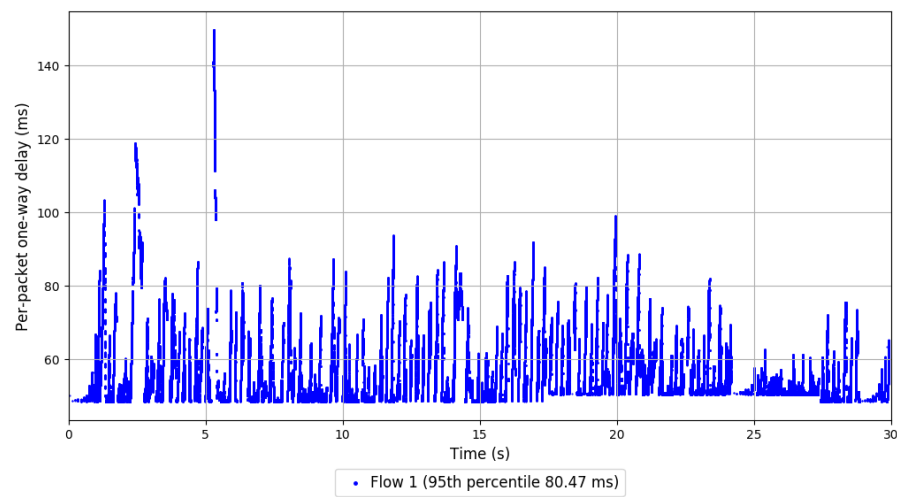
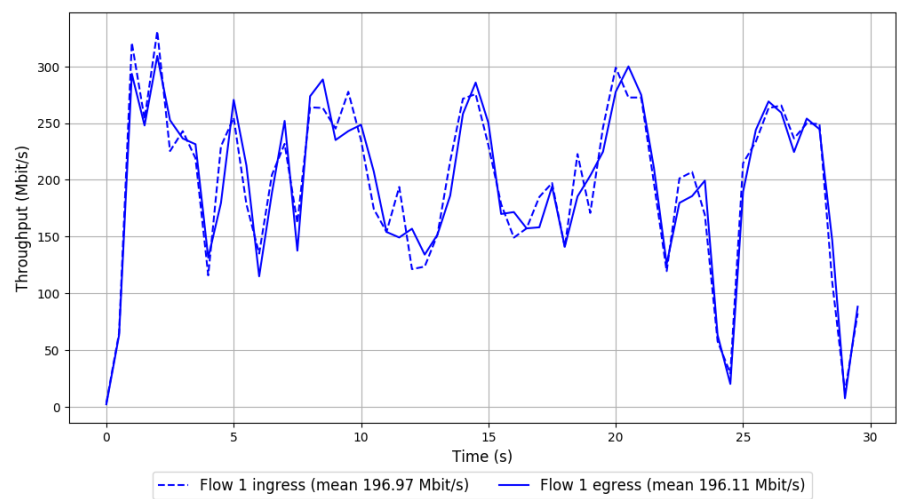
-- Flow 1:

Average throughput: 196.11 Mbit/s

95th percentile per-packet one-way delay: 80.467 ms

Loss rate: 0.39%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-01-30 21:46:16

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

Below is generated by plot.py at 2018-01-31 00:08:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.85 Mbit/s

95th percentile per-packet one-way delay: 127.179 ms

Loss rate: 0.04%

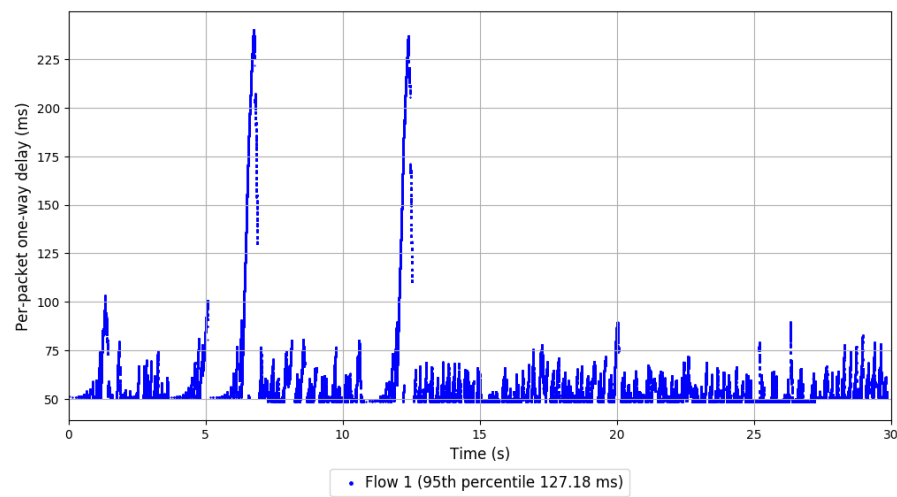
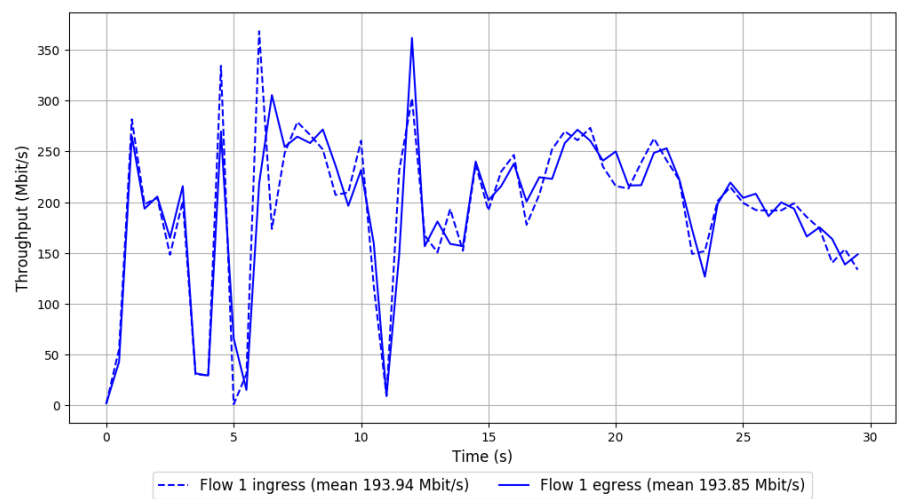
-- Flow 1:

Average throughput: 193.85 Mbit/s

95th percentile per-packet one-way delay: 127.179 ms

Loss rate: 0.04%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-01-30 21:59:55

End at: 2018-01-30 22:00:25

Below is generated by plot.py at 2018-01-31 00:09:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.15 Mbit/s

95th percentile per-packet one-way delay: 110.044 ms

Loss rate: 0.90%

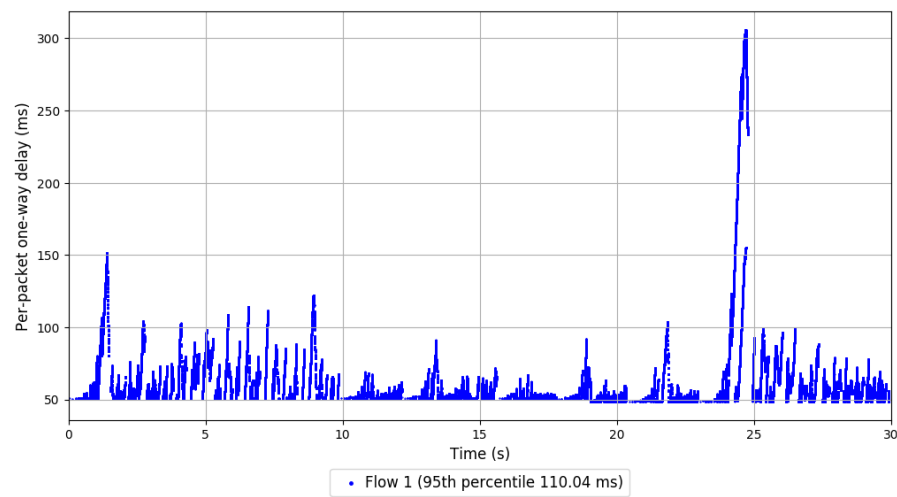
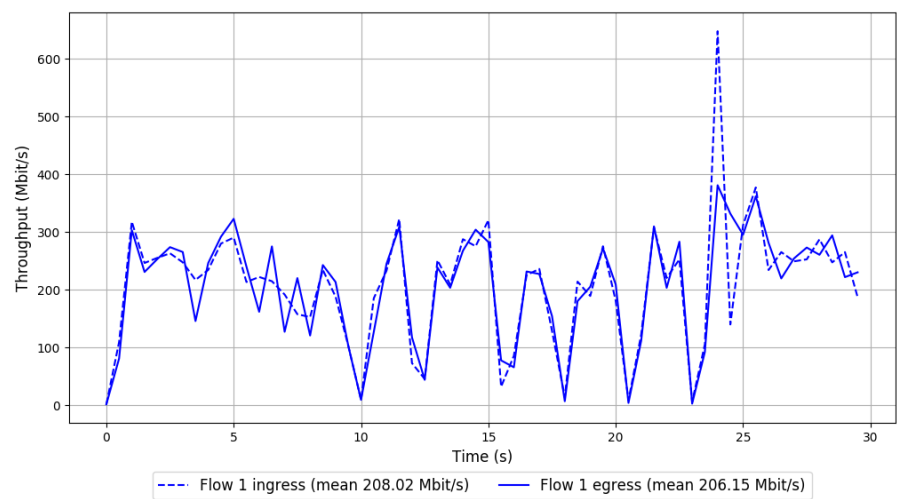
-- Flow 1:

Average throughput: 206.15 Mbit/s

95th percentile per-packet one-way delay: 110.044 ms

Loss rate: 0.90%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-01-30 22:13:49

End at: 2018-01-30 22:14:19

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.65 Mbit/s

95th percentile per-packet one-way delay: 106.023 ms

Loss rate: 0.01%

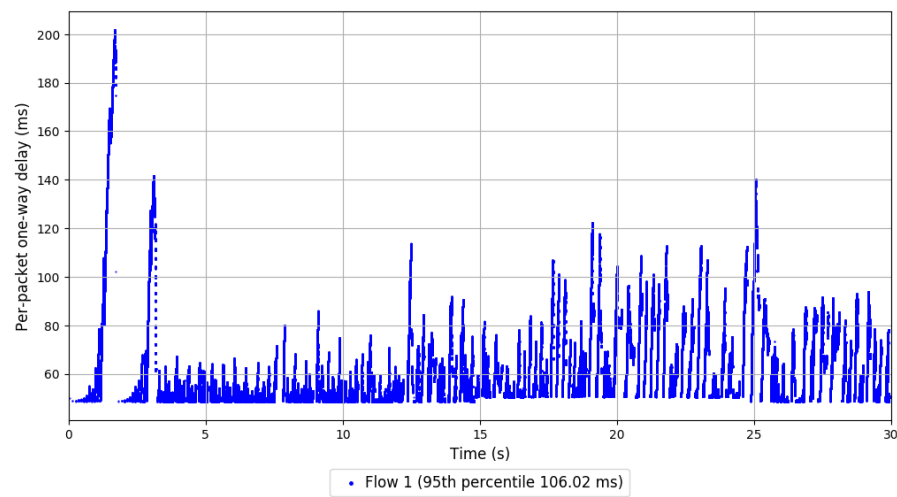
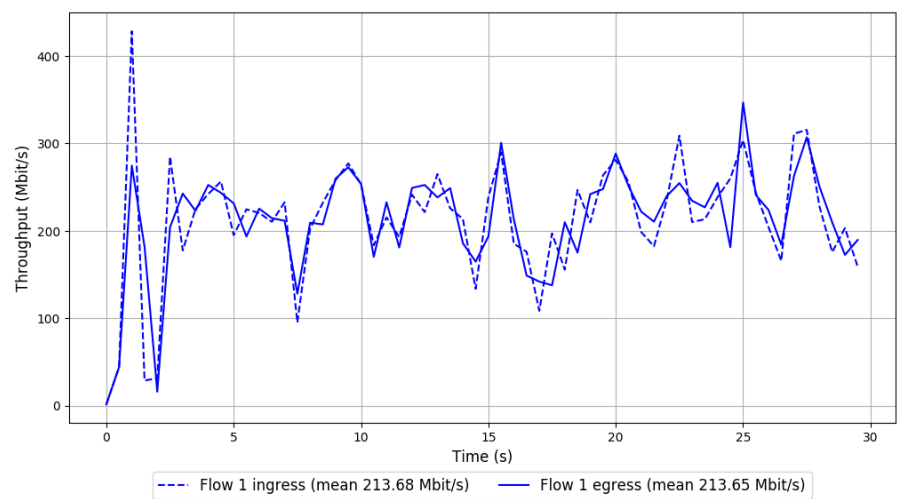
-- Flow 1:

Average throughput: 213.65 Mbit/s

95th percentile per-packet one-way delay: 106.023 ms

Loss rate: 0.01%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-01-30 20:07:57

End at: 2018-01-30 20:08:27

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.73 Mbit/s

95th percentile per-packet one-way delay: 49.511 ms

Loss rate: 0.00%

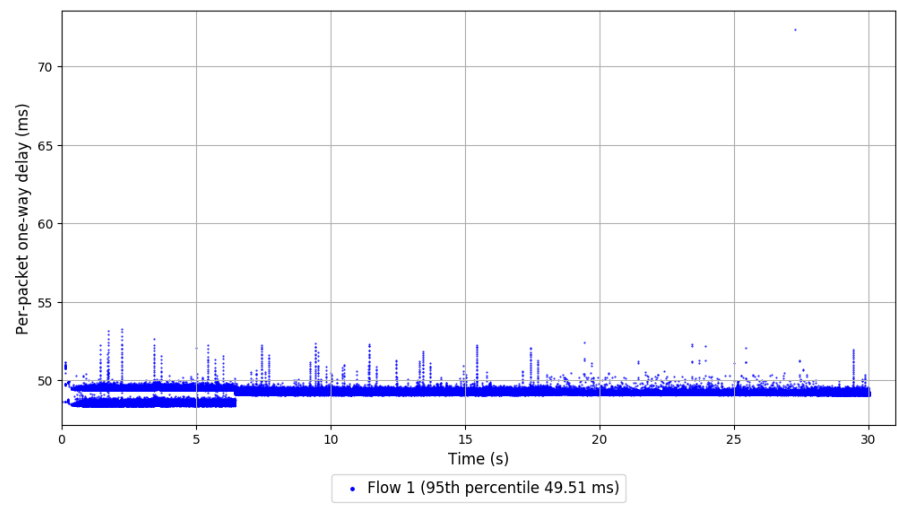
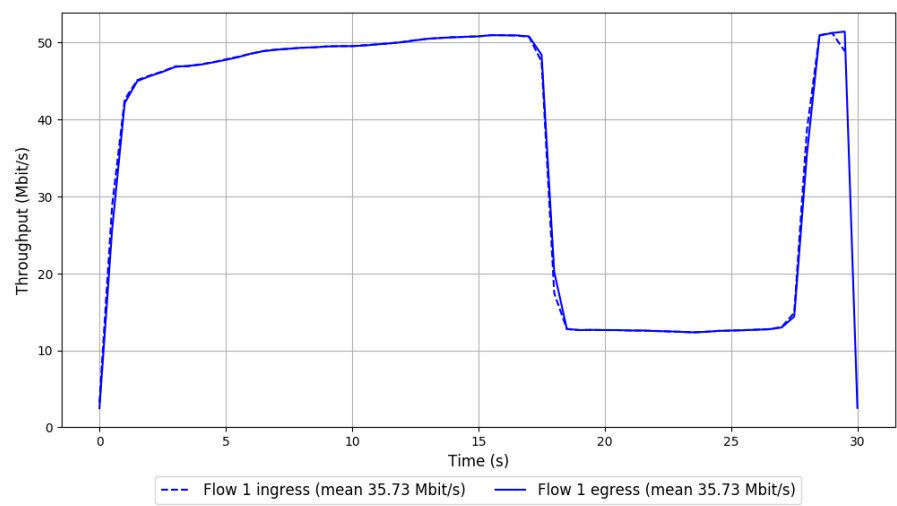
-- Flow 1:

Average throughput: 35.73 Mbit/s

95th percentile per-packet one-way delay: 49.511 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-01-30 20:21:56

End at: 2018-01-30 20:22:26

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 49.581 ms

Loss rate: 0.00%

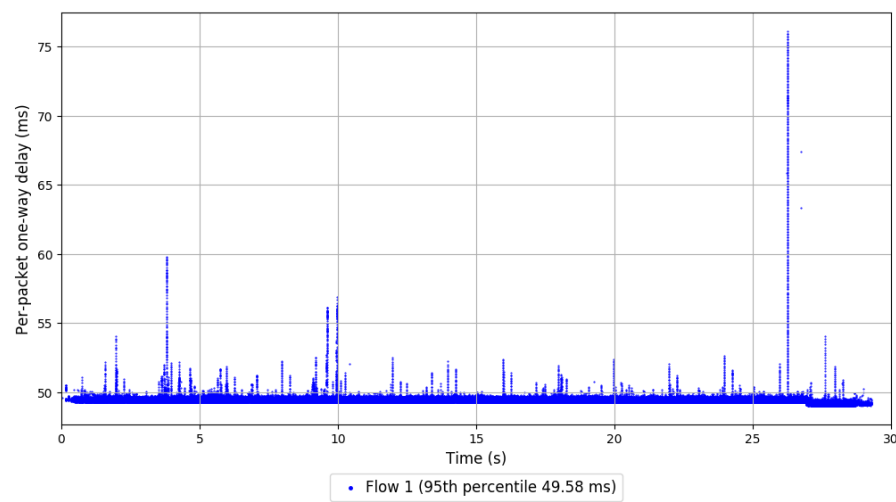
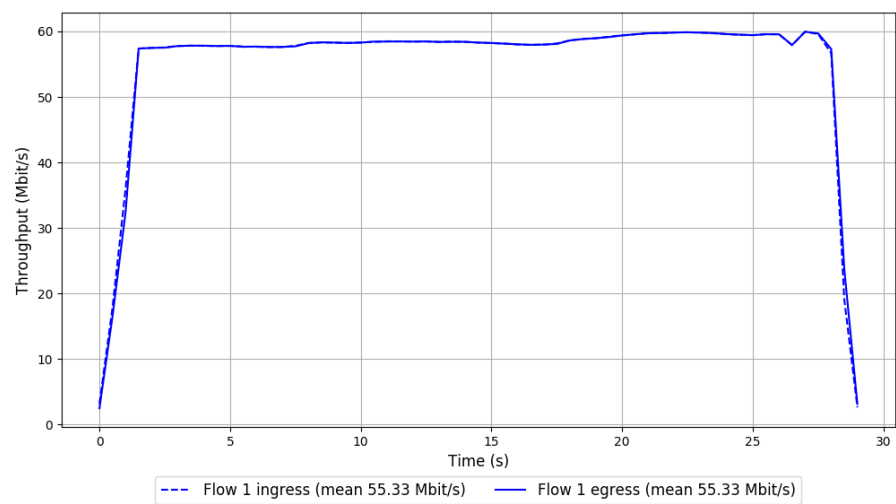
-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 49.581 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-01-30 20:35:54

End at: 2018-01-30 20:36:24

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 49.339 ms

Loss rate: 0.00%

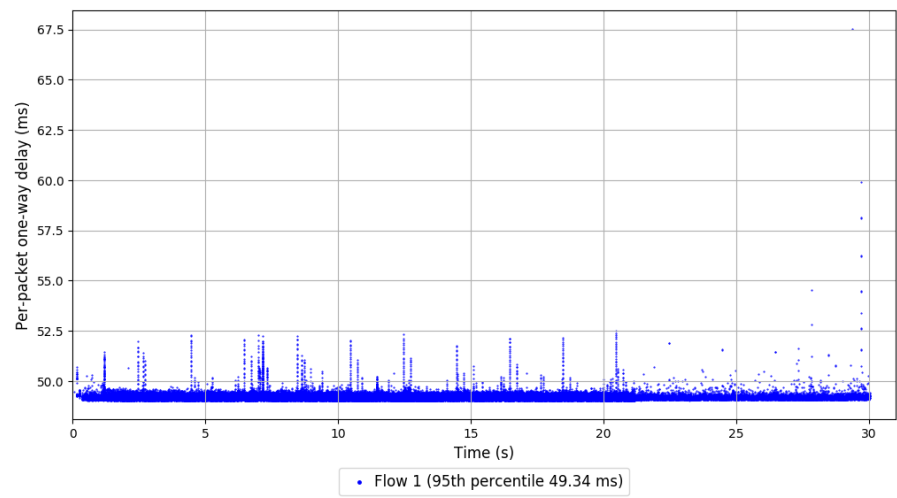
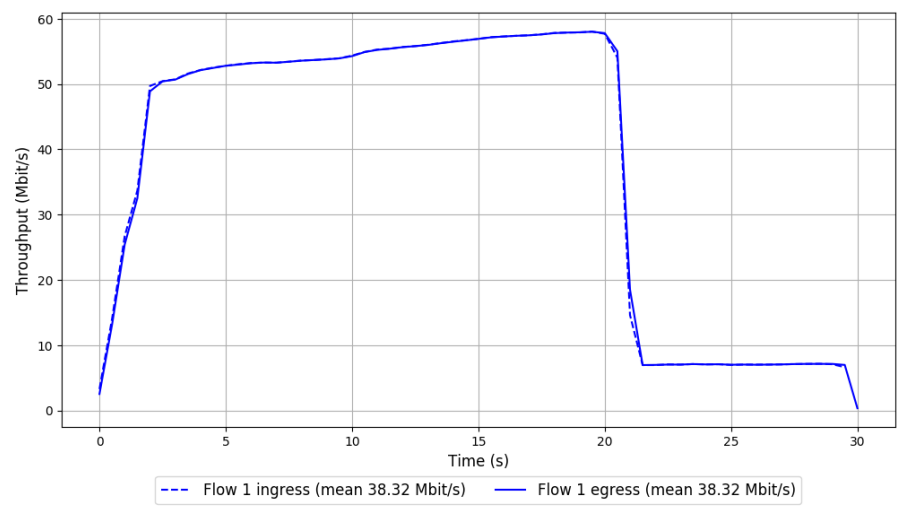
-- Flow 1:

Average throughput: 38.32 Mbit/s

95th percentile per-packet one-way delay: 49.339 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-01-30 20:49:40

End at: 2018-01-30 20:50:10

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.15 Mbit/s

95th percentile per-packet one-way delay: 49.572 ms

Loss rate: 0.00%

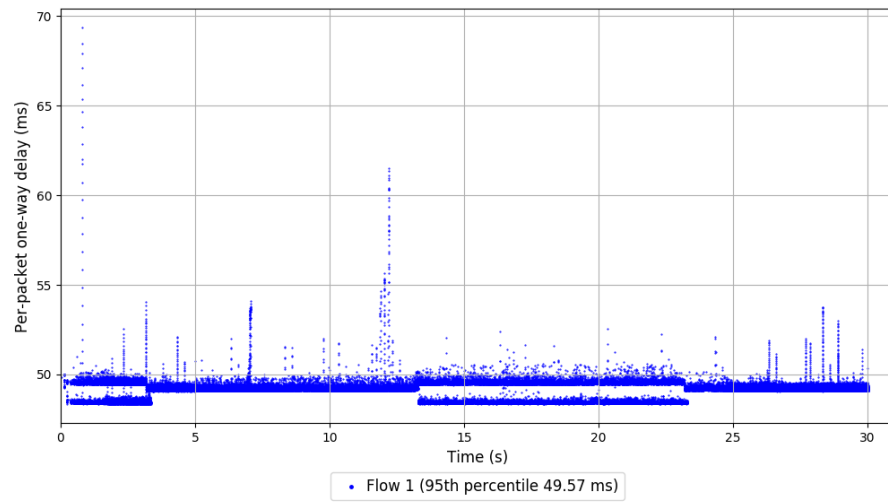
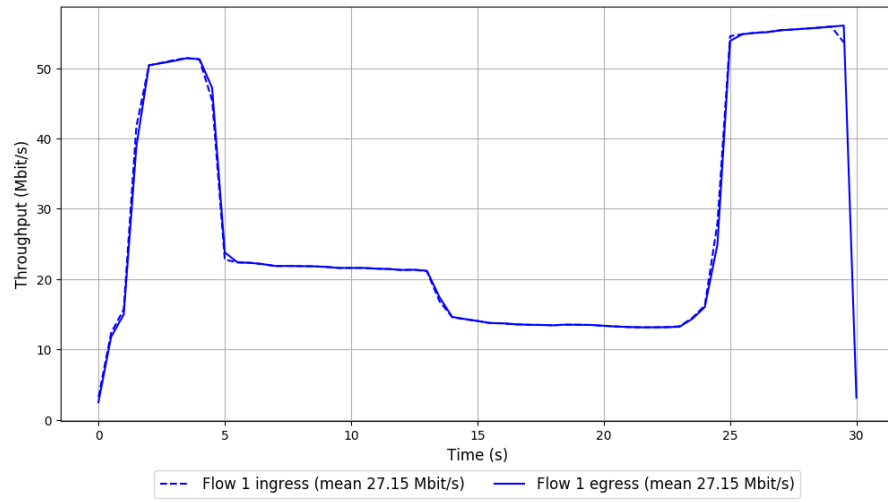
-- Flow 1:

Average throughput: 27.15 Mbit/s

95th percentile per-packet one-way delay: 49.572 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-01-30 21:03:48

End at: 2018-01-30 21:04:18

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.28 Mbit/s

95th percentile per-packet one-way delay: 49.970 ms

Loss rate: 0.00%

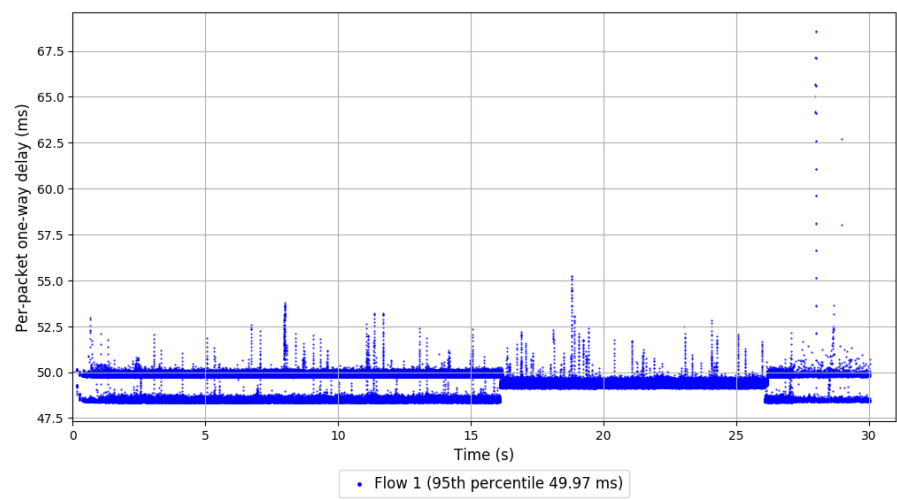
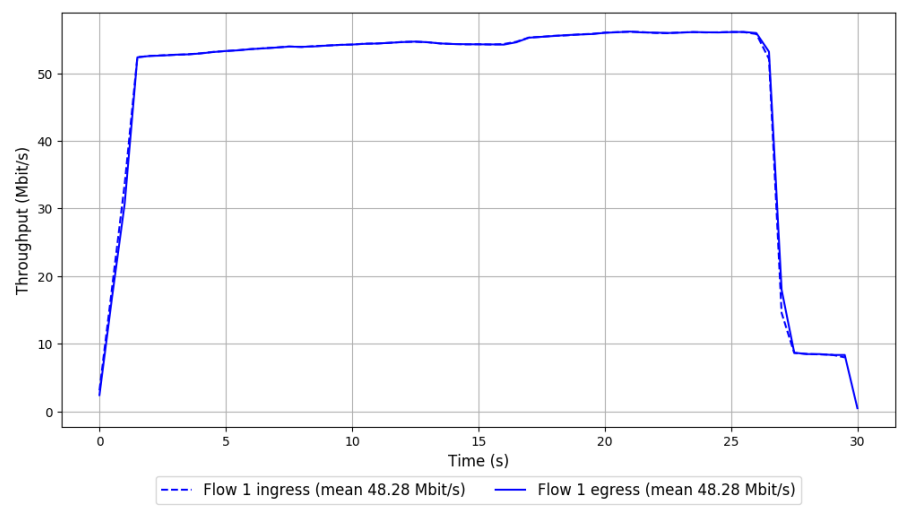
-- Flow 1:

Average throughput: 48.28 Mbit/s

95th percentile per-packet one-way delay: 49.970 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-01-30 21:17:11

End at: 2018-01-30 21:17:41

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 50.572 ms

Loss rate: 0.00%

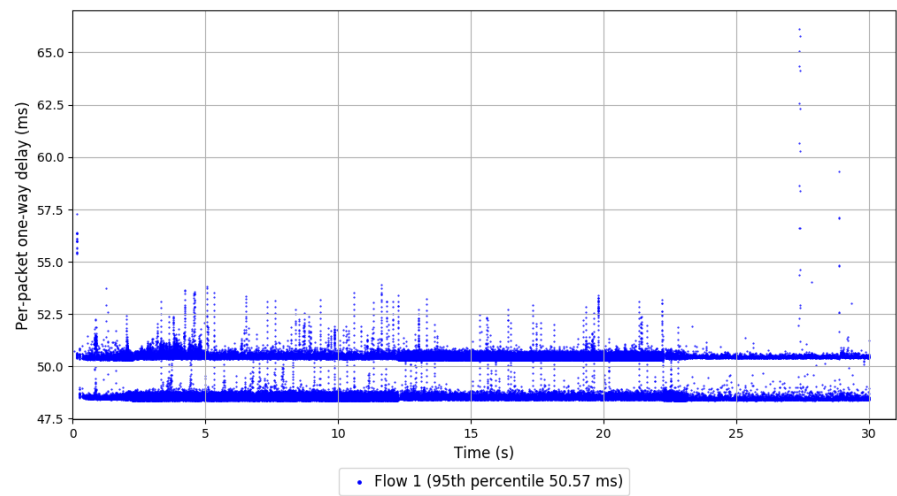
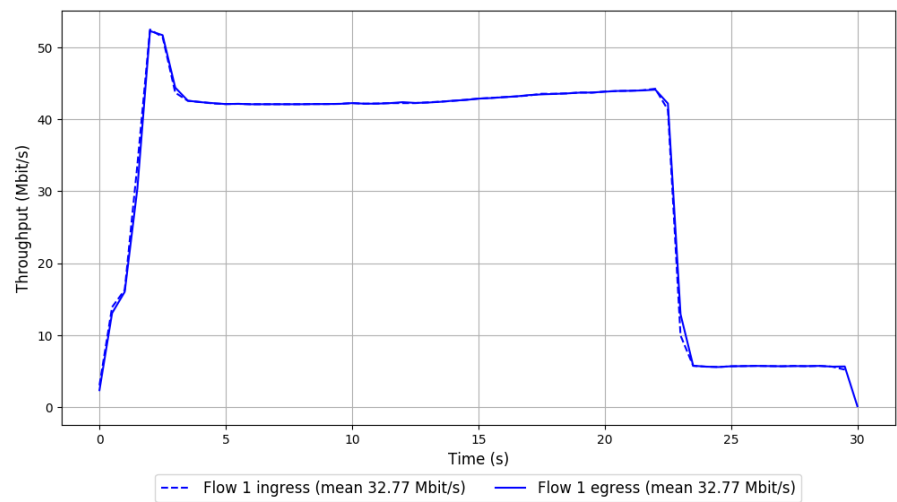
-- Flow 1:

Average throughput: 32.77 Mbit/s

95th percentile per-packet one-way delay: 50.572 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-01-30 21:30:56

End at: 2018-01-30 21:31:26

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.99 Mbit/s

95th percentile per-packet one-way delay: 50.447 ms

Loss rate: 0.00%

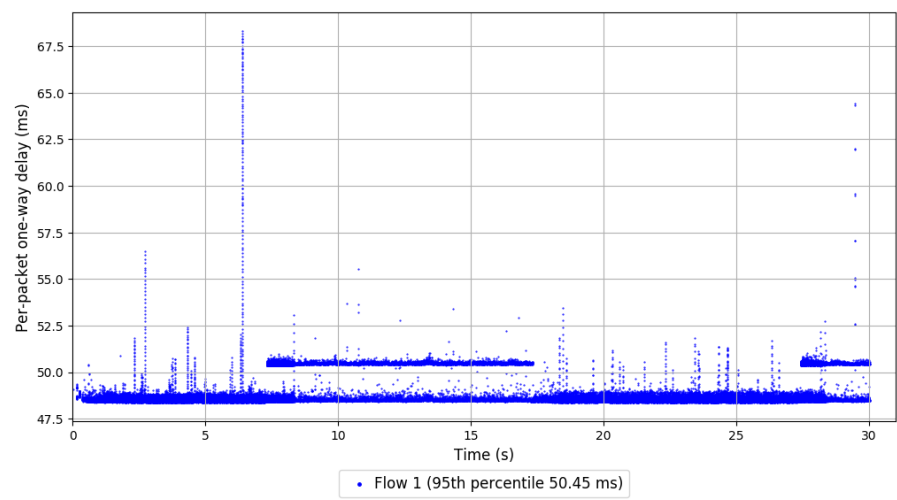
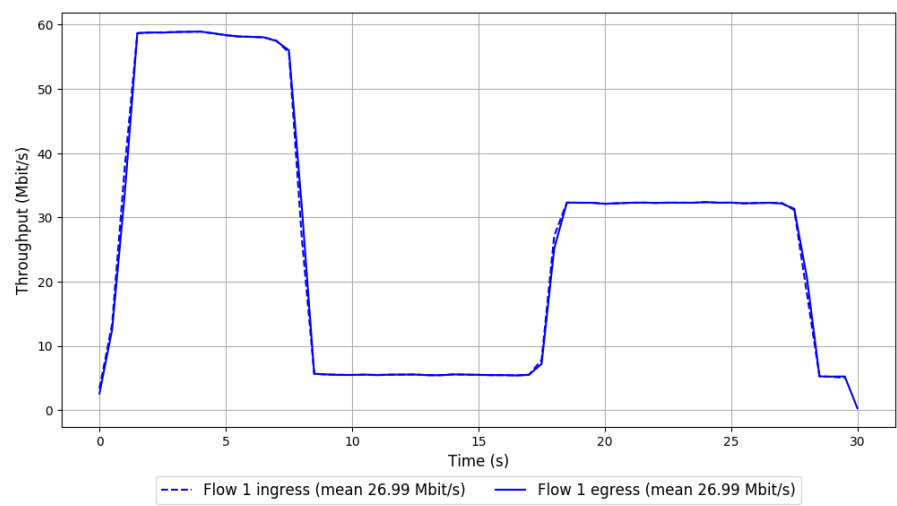
-- Flow 1:

Average throughput: 26.99 Mbit/s

95th percentile per-packet one-way delay: 50.447 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-01-30 21:44:33

End at: 2018-01-30 21:45:04

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.39 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.00%

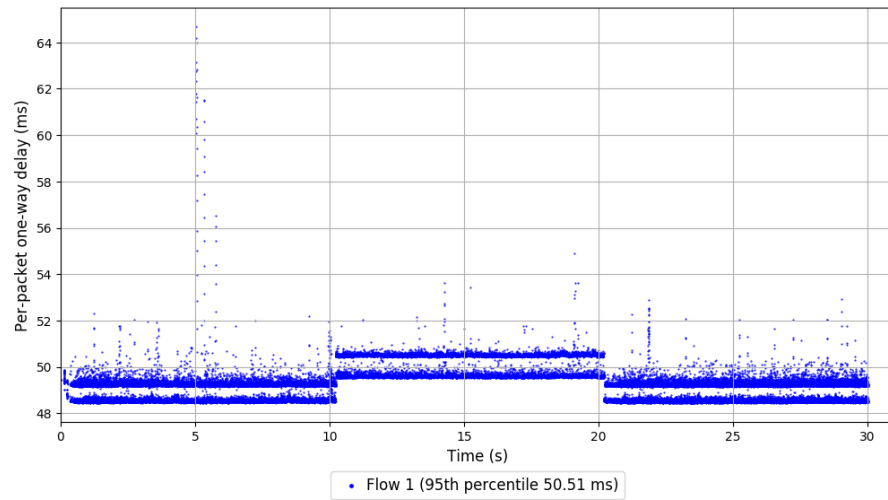
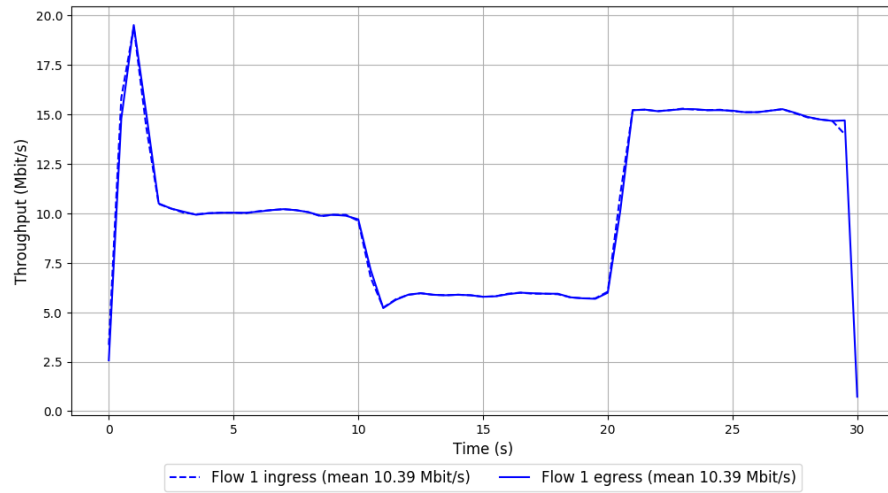
-- Flow 1:

Average throughput: 10.39 Mbit/s

95th percentile per-packet one-way delay: 50.512 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-01-30 21:58:12

End at: 2018-01-30 21:58:43

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 50.633 ms

Loss rate: 0.00%

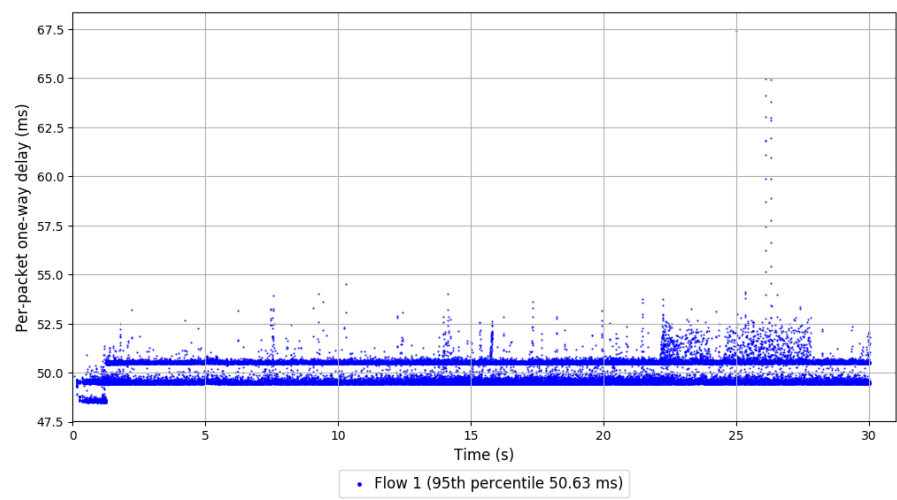
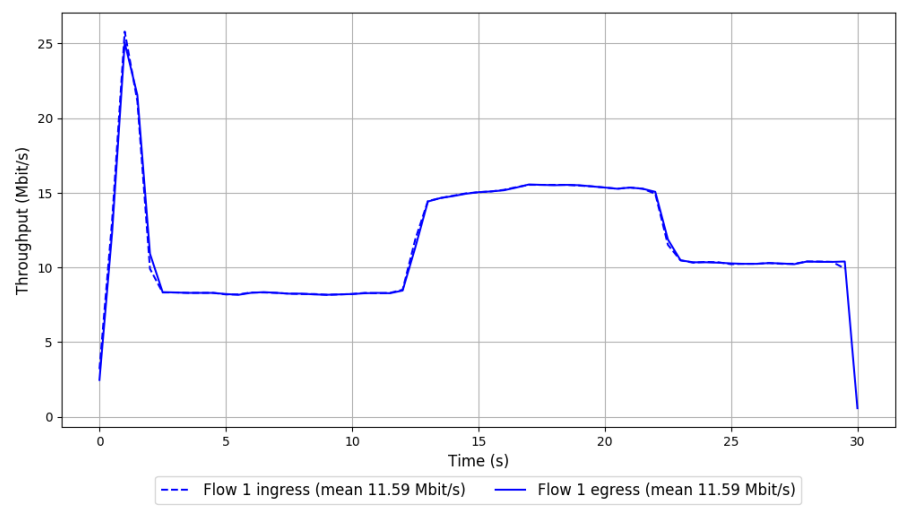
-- Flow 1:

Average throughput: 11.59 Mbit/s

95th percentile per-packet one-way delay: 50.633 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-01-30 22:12:06

End at: 2018-01-30 22:12:36

Below is generated by plot.py at 2018-01-31 00:10:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.20 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.00%

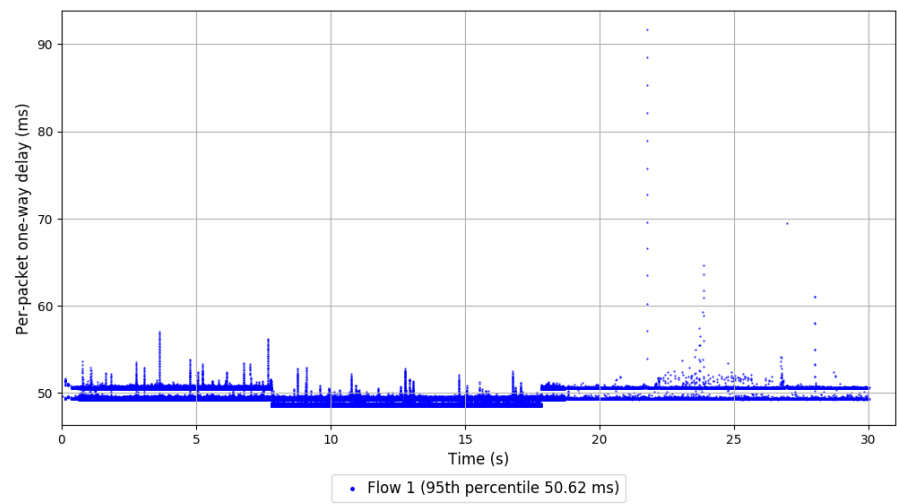
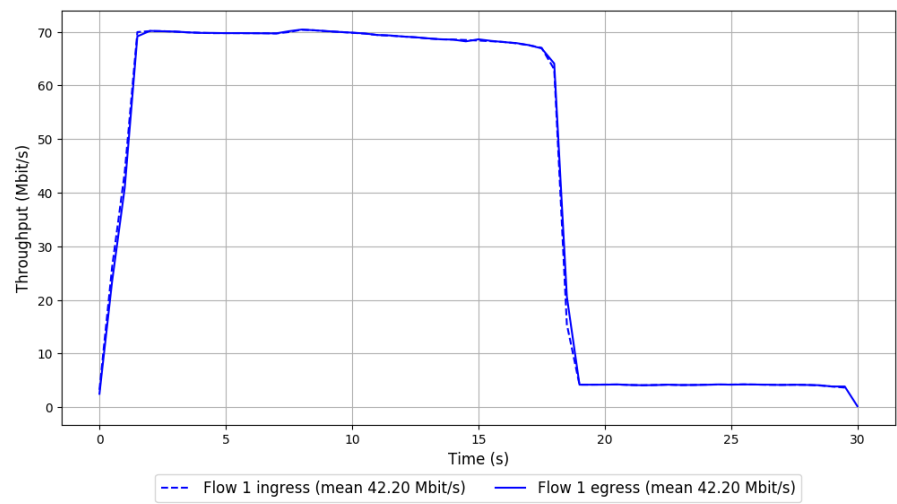
-- Flow 1:

Average throughput: 42.20 Mbit/s

95th percentile per-packet one-way delay: 50.624 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

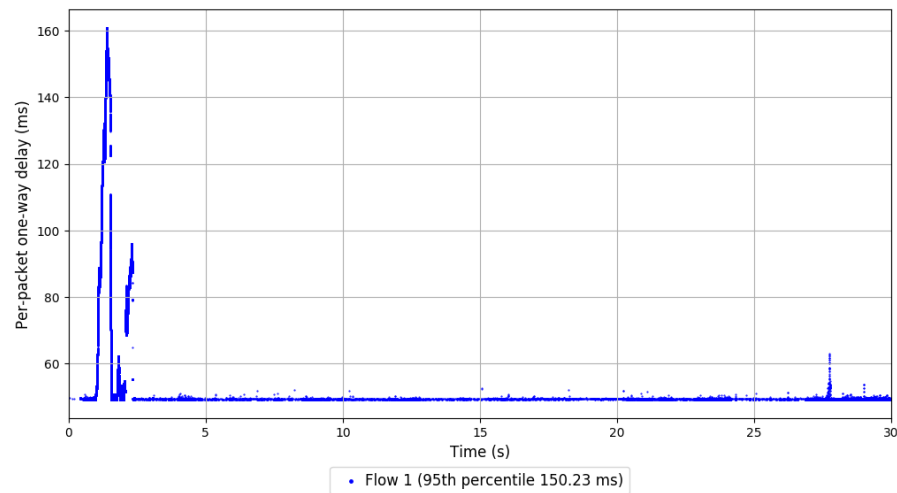
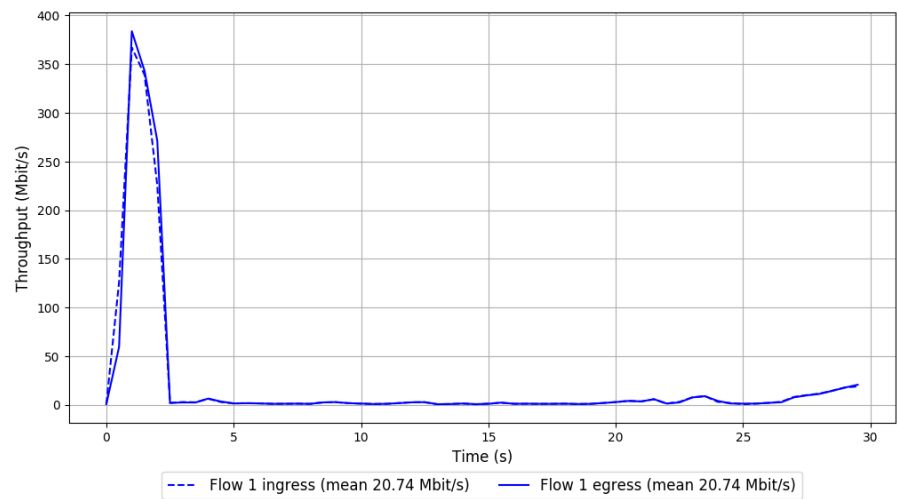


```
Run 1: Statistics of FillP

Start at: 2018-01-30 20:06:36
End at: 2018-01-30 20:07:06

# Below is generated by plot.py at 2018-01-31 00:10:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.74 Mbit/s
95th percentile per-packet one-way delay: 150.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.74 Mbit/s
95th percentile per-packet one-way delay: 150.227 ms
Loss rate: 0.00%
```

Run 1: Report of FillP — Data Link

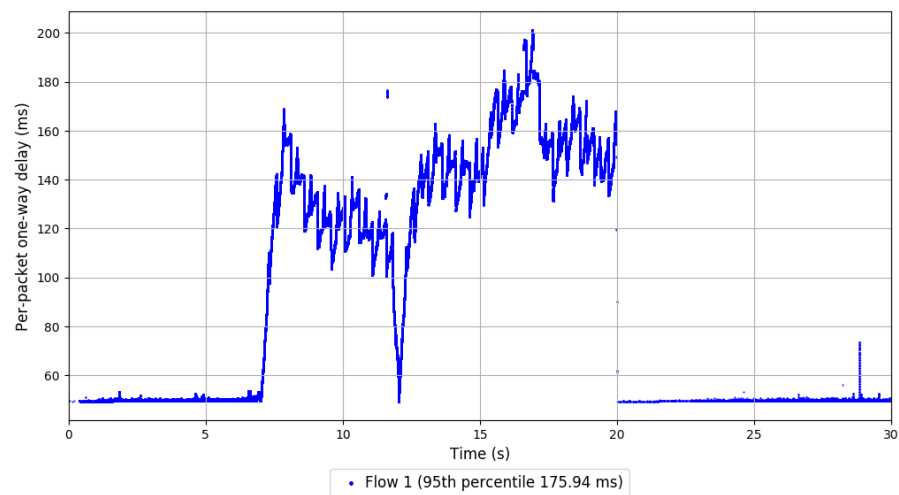
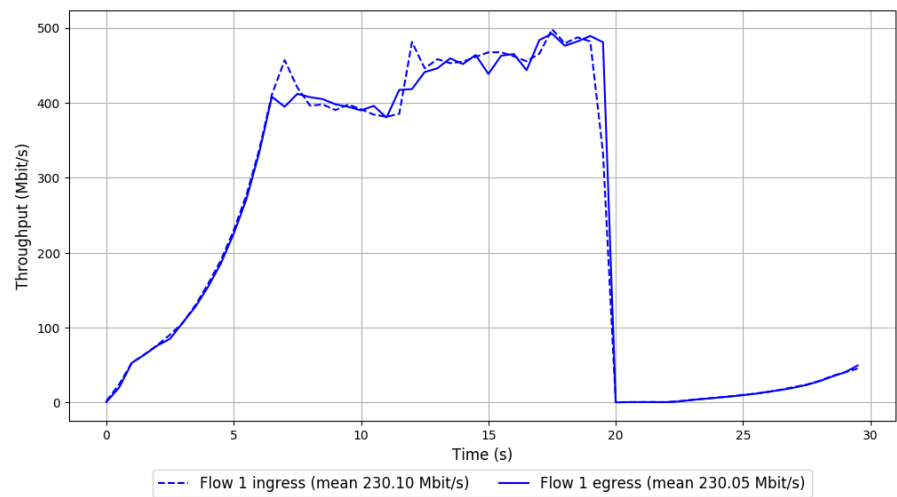


```
Run 2: Statistics of FillP

Start at: 2018-01-30 20:20:22
End at: 2018-01-30 20:20:52

# Below is generated by plot.py at 2018-01-31 00:16:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 230.05 Mbit/s
95th percentile per-packet one-way delay: 175.935 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 230.05 Mbit/s
95th percentile per-packet one-way delay: 175.935 ms
Loss rate: 0.02%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-01-30 20:34:36

End at: 2018-01-30 20:35:06

Below is generated by plot.py at 2018-01-31 00:16:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.57 Mbit/s

95th percentile per-packet one-way delay: 248.077 ms

Loss rate: 0.21%

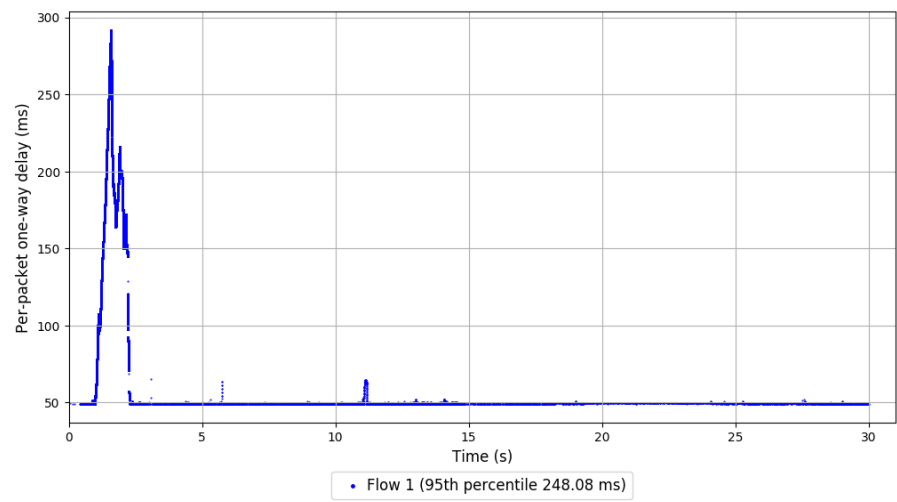
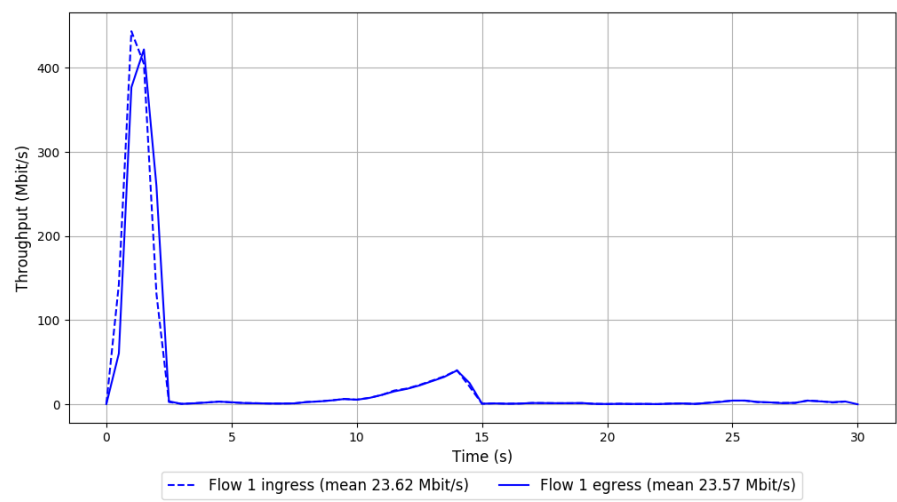
-- Flow 1:

Average throughput: 23.57 Mbit/s

95th percentile per-packet one-way delay: 248.077 ms

Loss rate: 0.21%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-01-30 20:48:23

End at: 2018-01-30 20:48:53

Below is generated by plot.py at 2018-01-31 00:16:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.62 Mbit/s

95th percentile per-packet one-way delay: 234.822 ms

Loss rate: 1.59%

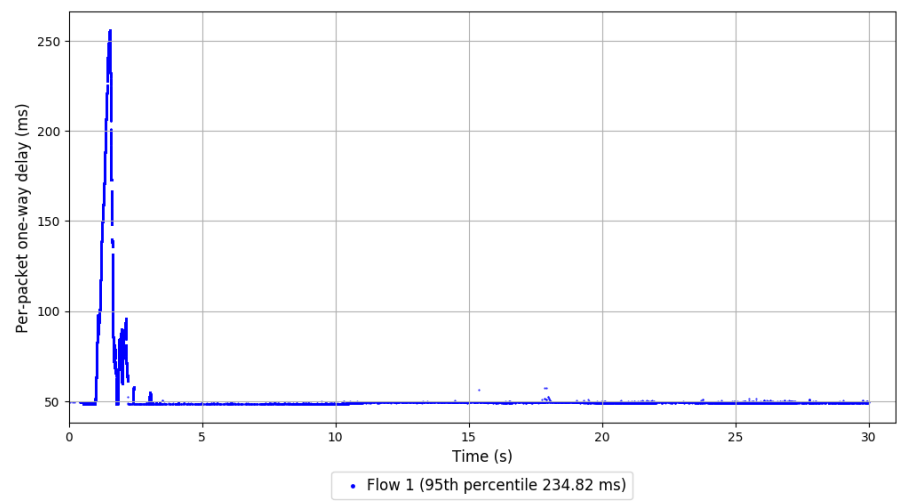
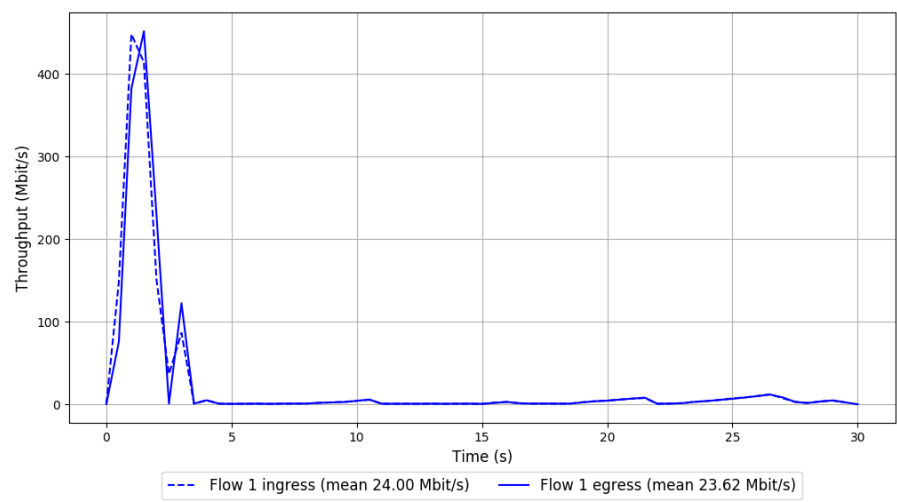
-- Flow 1:

Average throughput: 23.62 Mbit/s

95th percentile per-packet one-way delay: 234.822 ms

Loss rate: 1.59%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-01-30 21:02:09

End at: 2018-01-30 21:02:39

Below is generated by plot.py at 2018-01-31 00:18:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.62 Mbit/s

95th percentile per-packet one-way delay: 249.145 ms

Loss rate: 0.18%

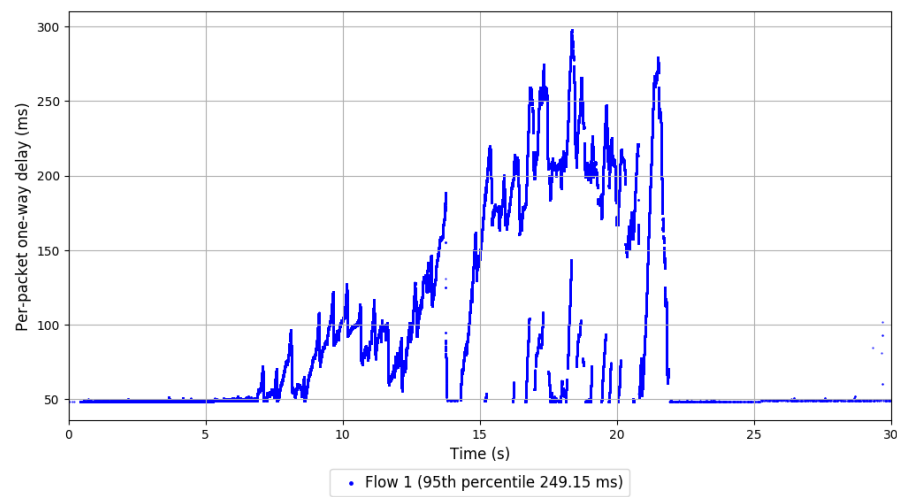
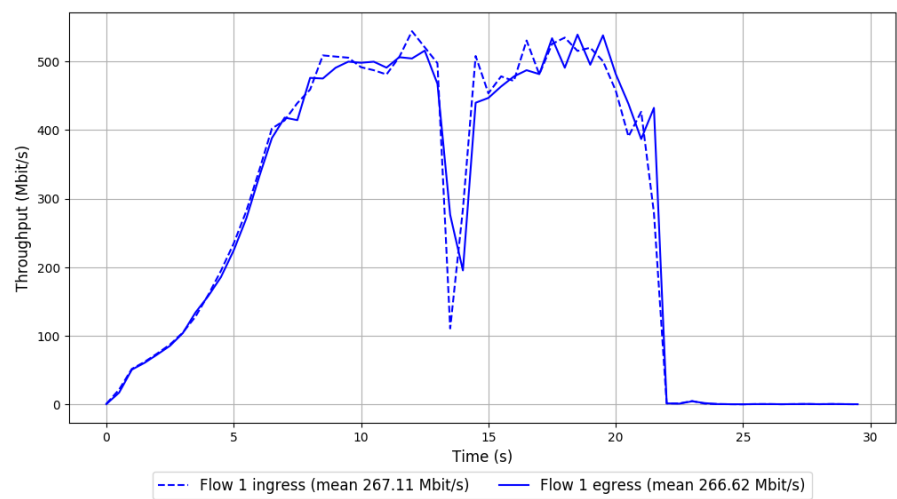
-- Flow 1:

Average throughput: 266.62 Mbit/s

95th percentile per-packet one-way delay: 249.145 ms

Loss rate: 0.18%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-01-30 21:15:31

End at: 2018-01-30 21:16:01

Below is generated by plot.py at 2018-01-31 00:23:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.32 Mbit/s

95th percentile per-packet one-way delay: 231.846 ms

Loss rate: 0.61%

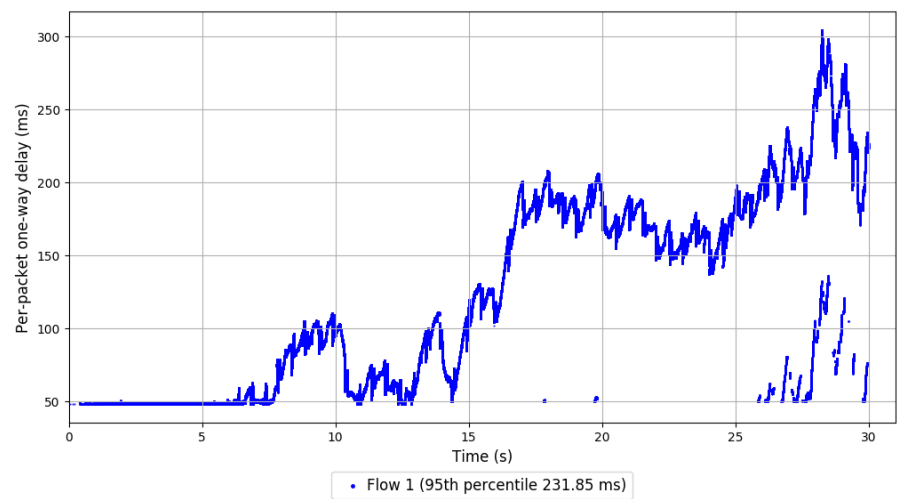
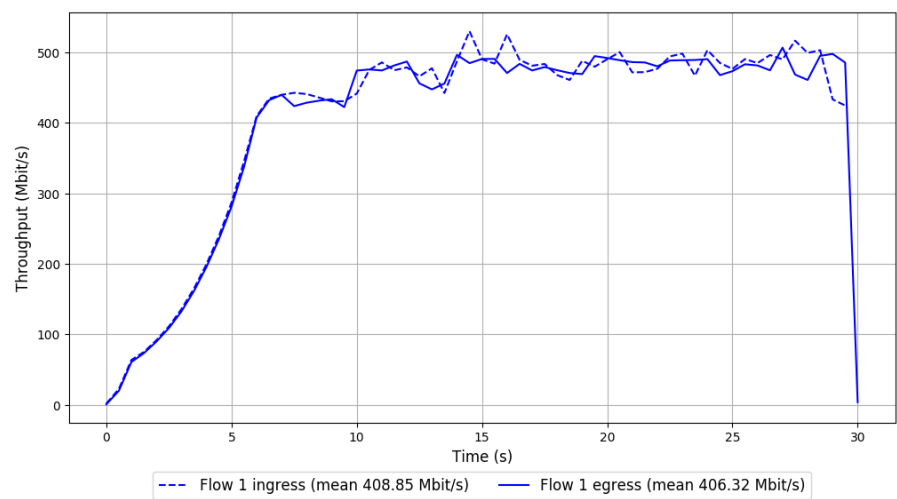
-- Flow 1:

Average throughput: 406.32 Mbit/s

95th percentile per-packet one-way delay: 231.846 ms

Loss rate: 0.61%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-01-30 21:29:37

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

Below is generated by plot.py at 2018-01-31 00:23:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 136.607 ms

Loss rate: 0.00%

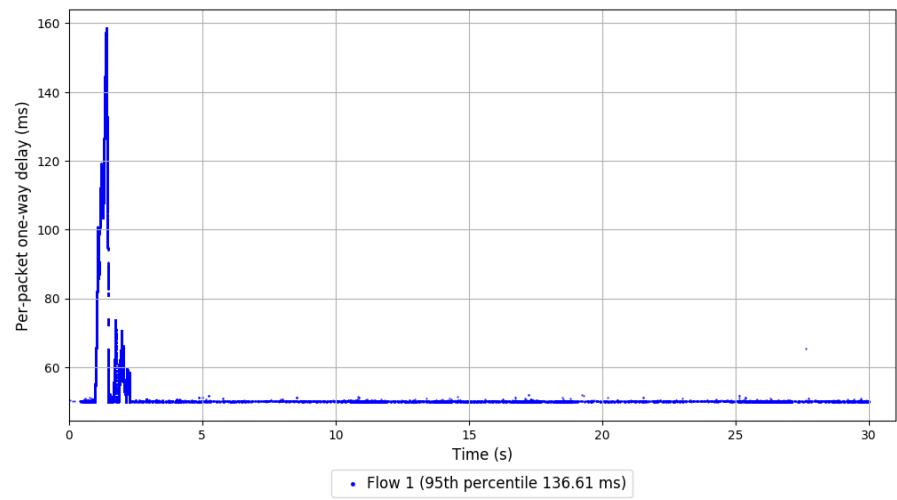
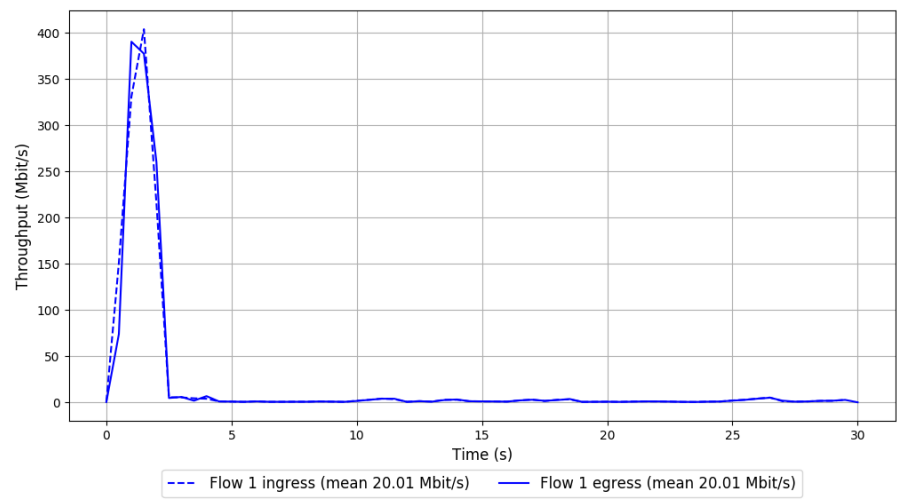
-- Flow 1:

Average throughput: 20.01 Mbit/s

95th percentile per-packet one-way delay: 136.607 ms

Loss rate: 0.00%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-01-30 21:43:12

End at: 2018-01-30 21:43:42

Below is generated by plot.py at 2018-01-31 00:23:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 177.730 ms

Loss rate: 0.00%

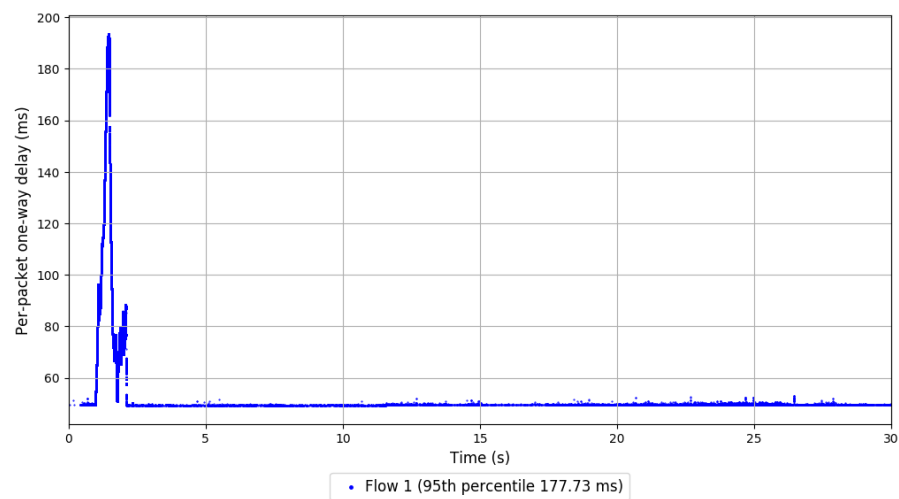
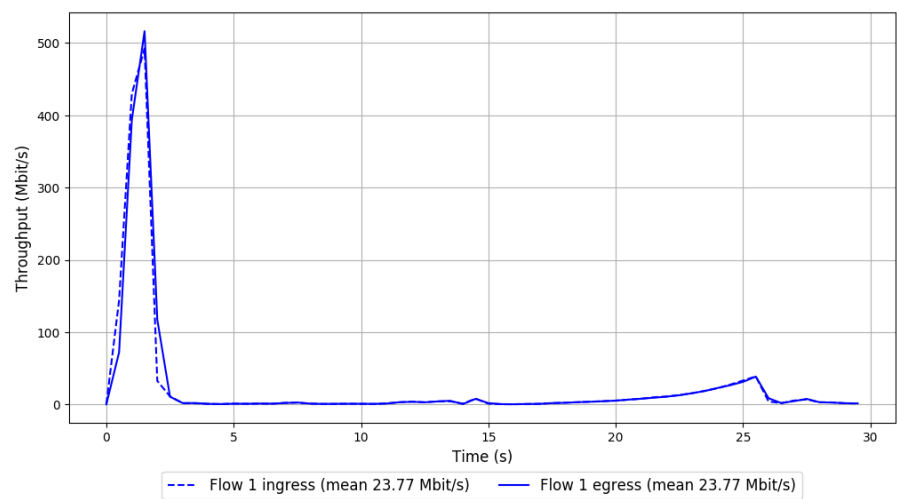
-- Flow 1:

Average throughput: 23.77 Mbit/s

95th percentile per-packet one-way delay: 177.730 ms

Loss rate: 0.00%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-01-30 21:56:48

End at: 2018-01-30 21:57:18

Below is generated by plot.py at 2018-01-31 00:23:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.91 Mbit/s

95th percentile per-packet one-way delay: 314.702 ms

Loss rate: 1.78%

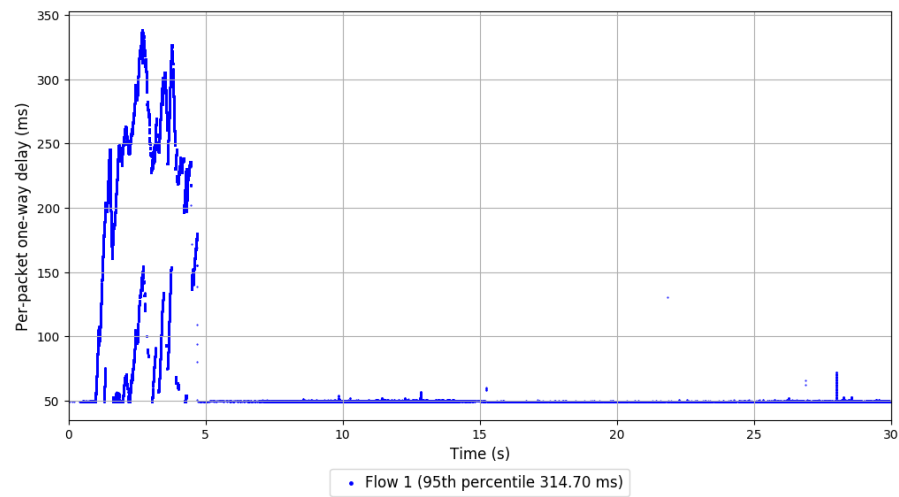
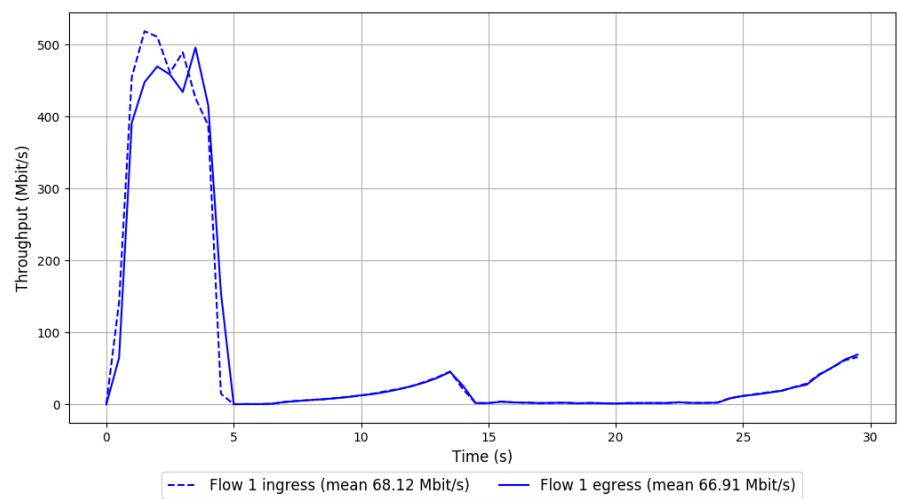
-- Flow 1:

Average throughput: 66.91 Mbit/s

95th percentile per-packet one-way delay: 314.702 ms

Loss rate: 1.78%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-01-30 22:10:33

End at: 2018-01-30 22:11:03

Below is generated by plot.py at 2018-01-31 00:23:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.15 Mbit/s

95th percentile per-packet one-way delay: 219.719 ms

Loss rate: 0.00%

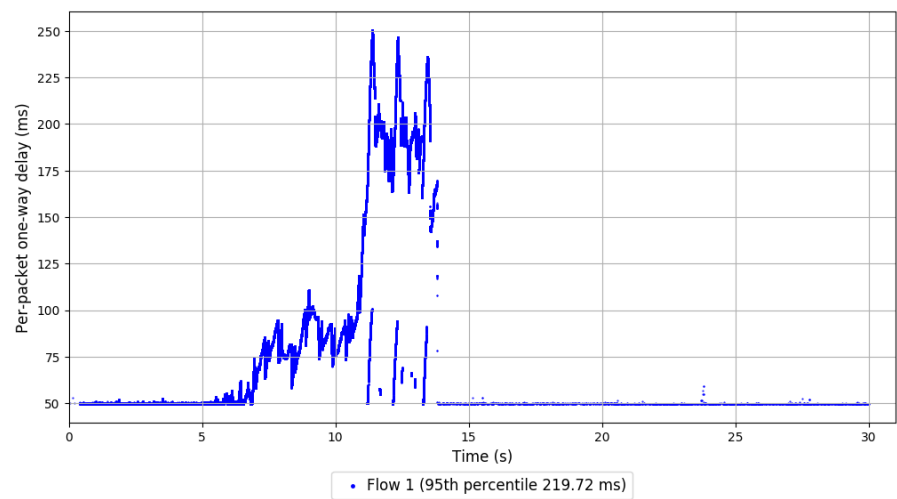
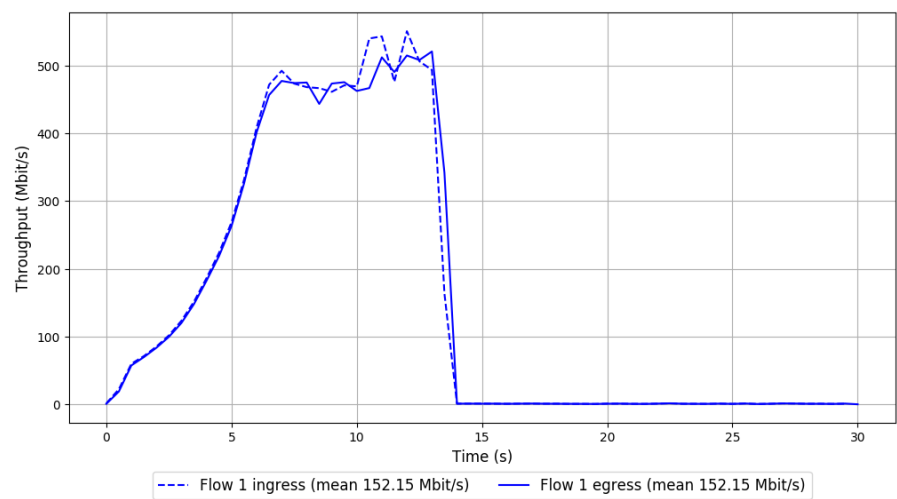
-- Flow 1:

Average throughput: 152.15 Mbit/s

95th percentile per-packet one-way delay: 219.719 ms

Loss rate: 0.00%

Run 10: Report of FillP — Data Link

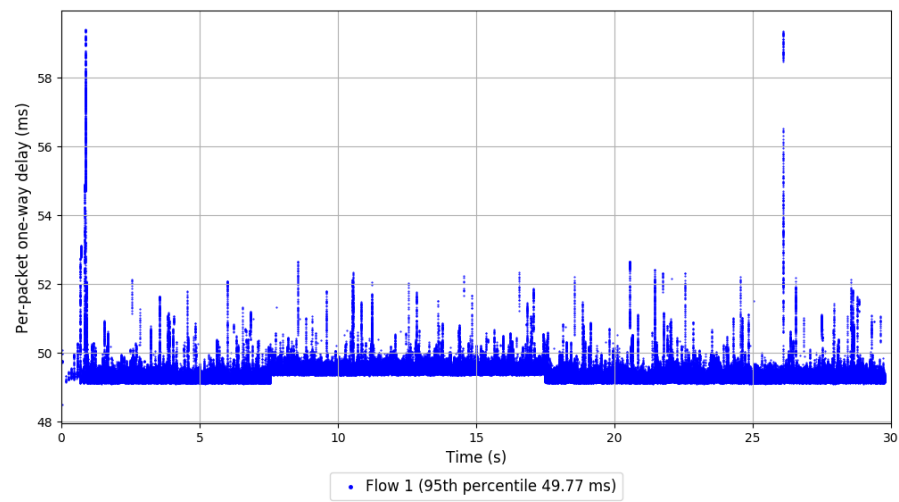
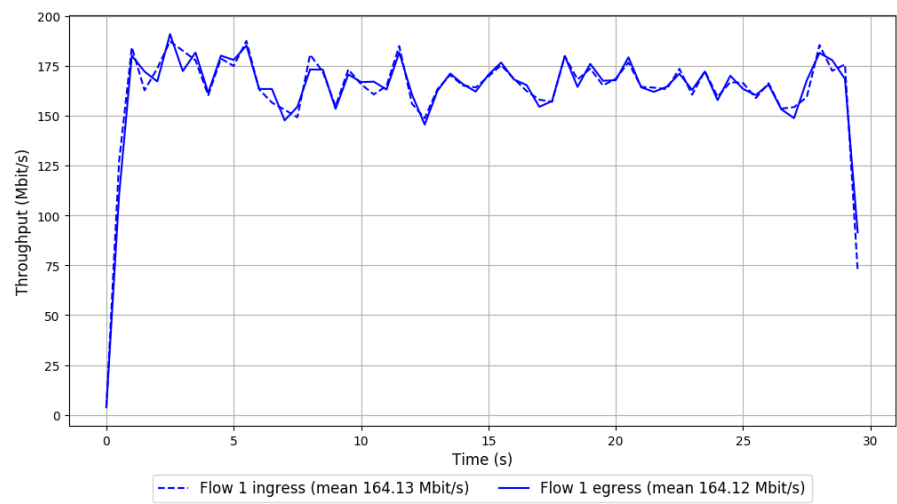


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-30 20:04:06
End at: 2018-01-30 20:04:36

# Below is generated by plot.py at 2018-01-31 00:23:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 164.12 Mbit/s
95th percentile per-packet one-way delay: 49.768 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 164.12 Mbit/s
95th percentile per-packet one-way delay: 49.768 ms
Loss rate: 0.00%
```

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

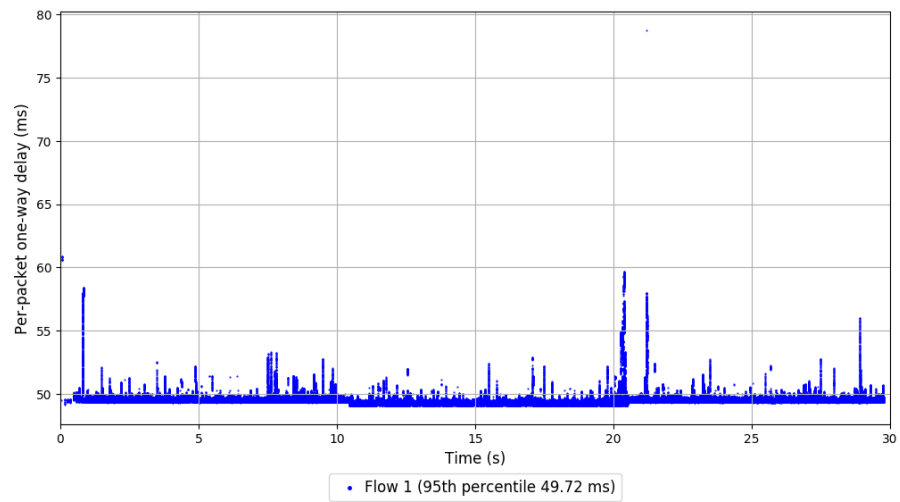
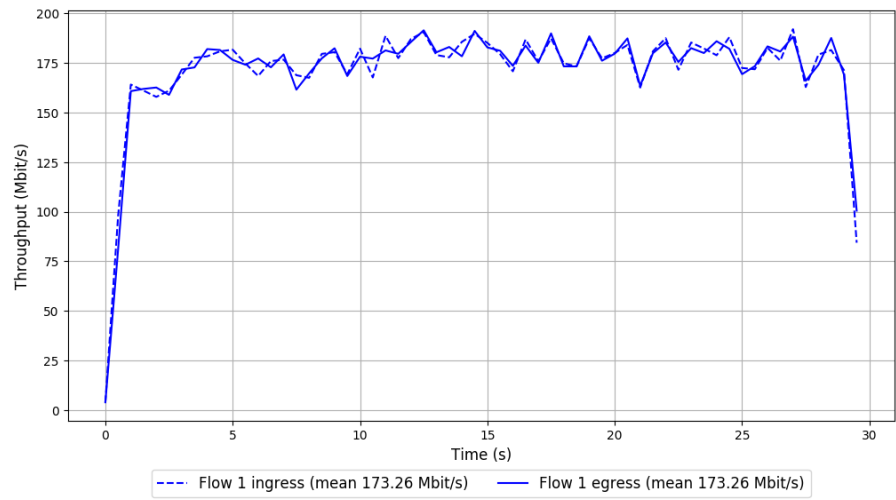


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-01-30 20:17:53
End at: 2018-01-30 20:18:23

# Below is generated by plot.py at 2018-01-31 00:23:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 173.26 Mbit/s
95th percentile per-packet one-way delay: 49.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 173.26 Mbit/s
95th percentile per-packet one-way delay: 49.722 ms
Loss rate: 0.00%
```

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

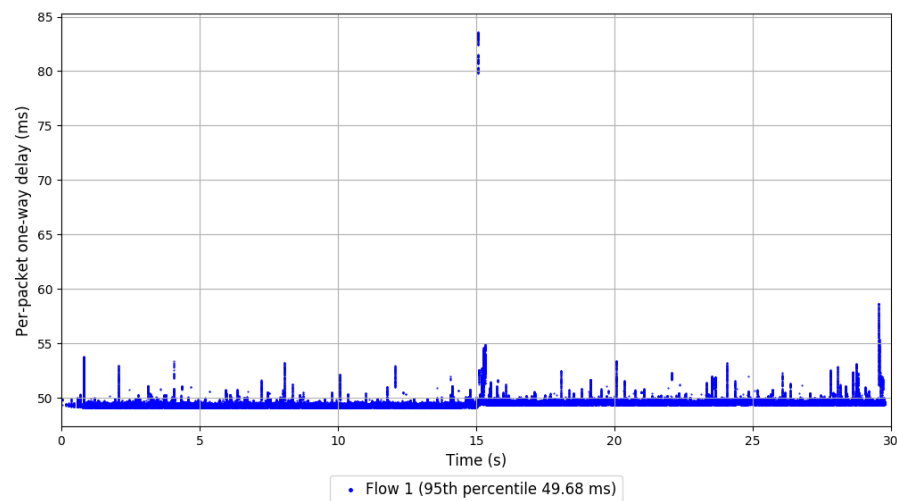
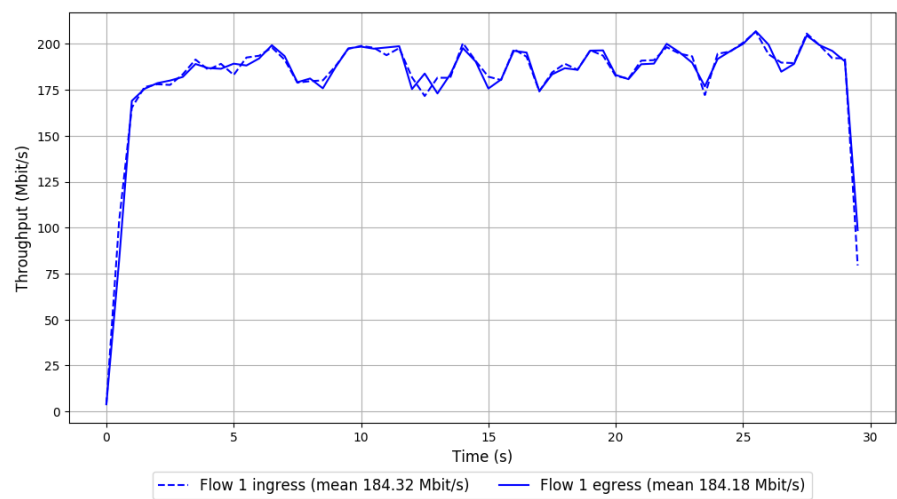


```
Run 3: Statistics of Indigo-1-32

Start at: 2018-01-30 20:31:58
End at: 2018-01-30 20:32:28

# Below is generated by plot.py at 2018-01-31 00:23:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 184.18 Mbit/s
95th percentile per-packet one-way delay: 49.684 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 184.18 Mbit/s
95th percentile per-packet one-way delay: 49.684 ms
Loss rate: 0.08%
```

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-01-30 20:45:49

End at: 2018-01-30 20:46:19

Below is generated by plot.py at 2018-01-31 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.10 Mbit/s

95th percentile per-packet one-way delay: 49.316 ms

Loss rate: 0.00%

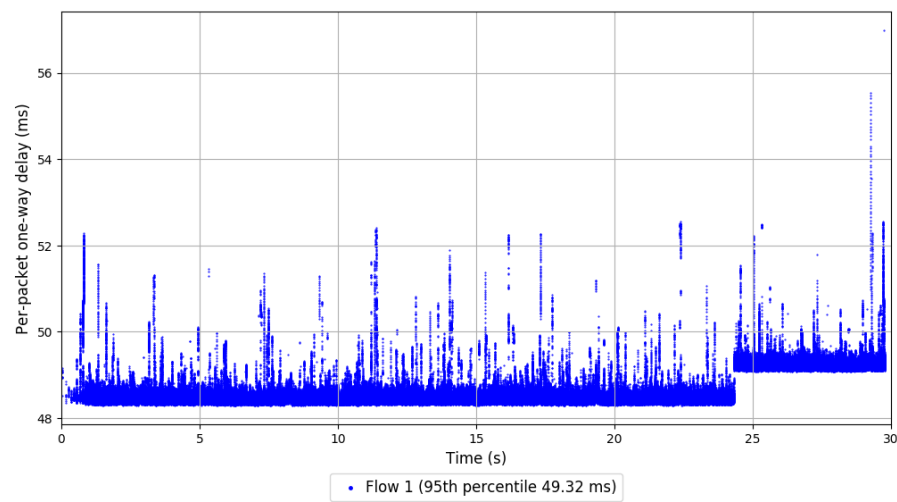
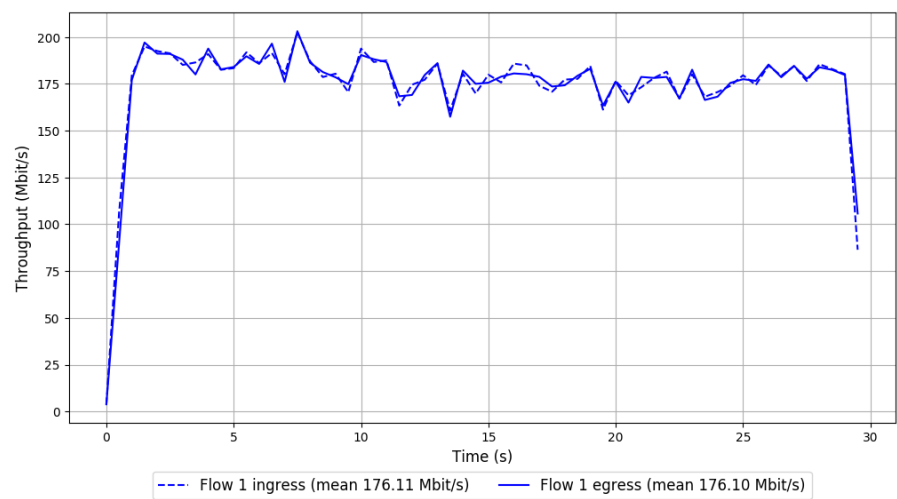
-- Flow 1:

Average throughput: 176.10 Mbit/s

95th percentile per-packet one-way delay: 49.316 ms

Loss rate: 0.00%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-01-30 20:59:29

End at: 2018-01-30 20:59:59

Below is generated by plot.py at 2018-01-31 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.97 Mbit/s

95th percentile per-packet one-way delay: 49.513 ms

Loss rate: 0.00%

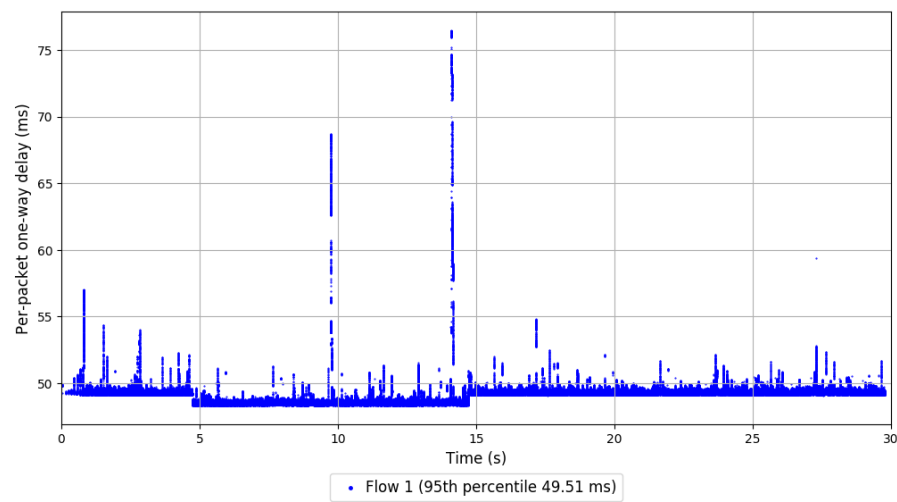
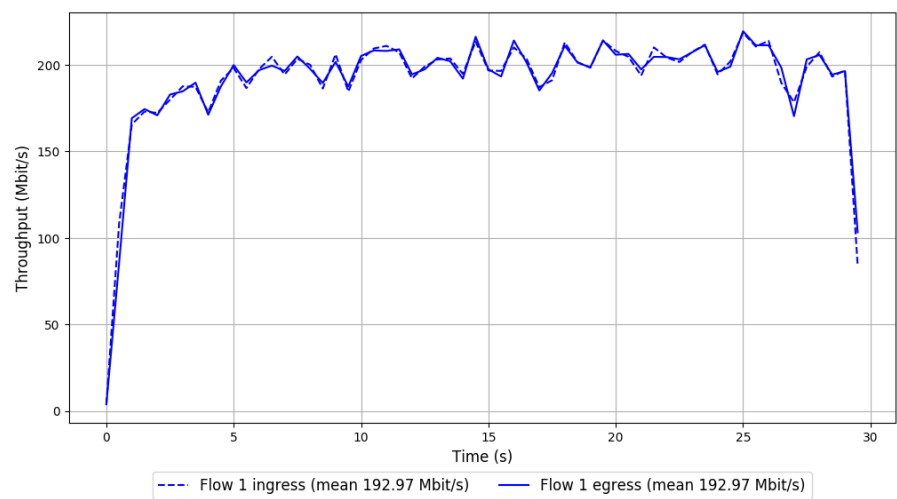
-- Flow 1:

Average throughput: 192.97 Mbit/s

95th percentile per-packet one-way delay: 49.513 ms

Loss rate: 0.00%

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

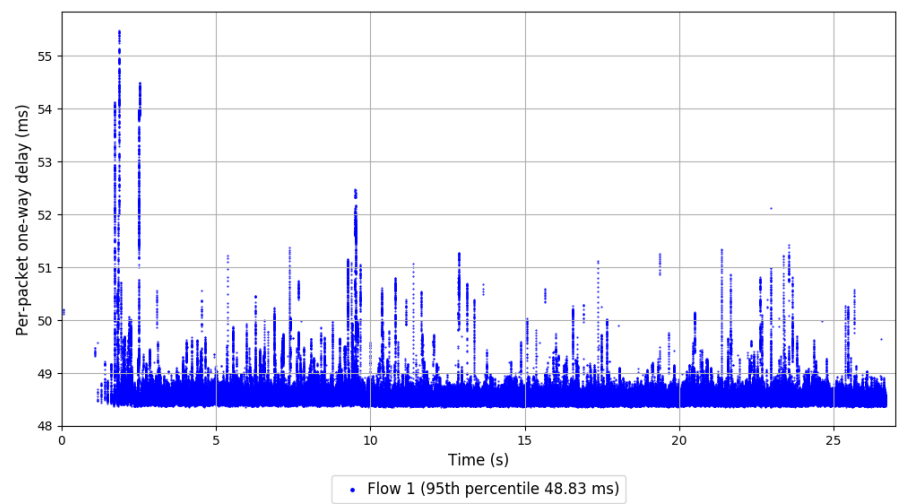
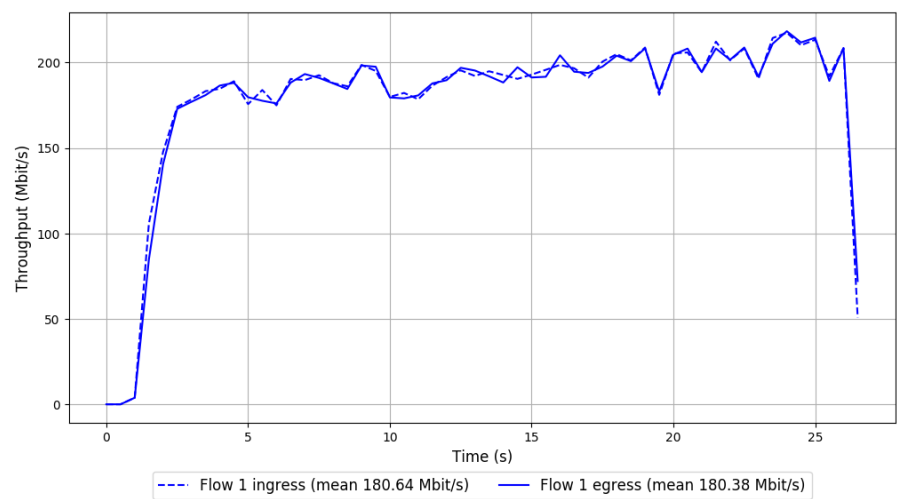


```
Run 6: Statistics of Indigo-1-32

Start at: 2018-01-30 21:12:58
End at: 2018-01-30 21:13:28

# Below is generated by plot.py at 2018-01-31 00:23:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 180.38 Mbit/s
95th percentile per-packet one-way delay: 48.830 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 180.38 Mbit/s
95th percentile per-packet one-way delay: 48.830 ms
Loss rate: 0.15%
```

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-01-30 21:27:09

End at: 2018-01-30 21:27:39

Below is generated by plot.py at 2018-01-31 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.61 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.00%

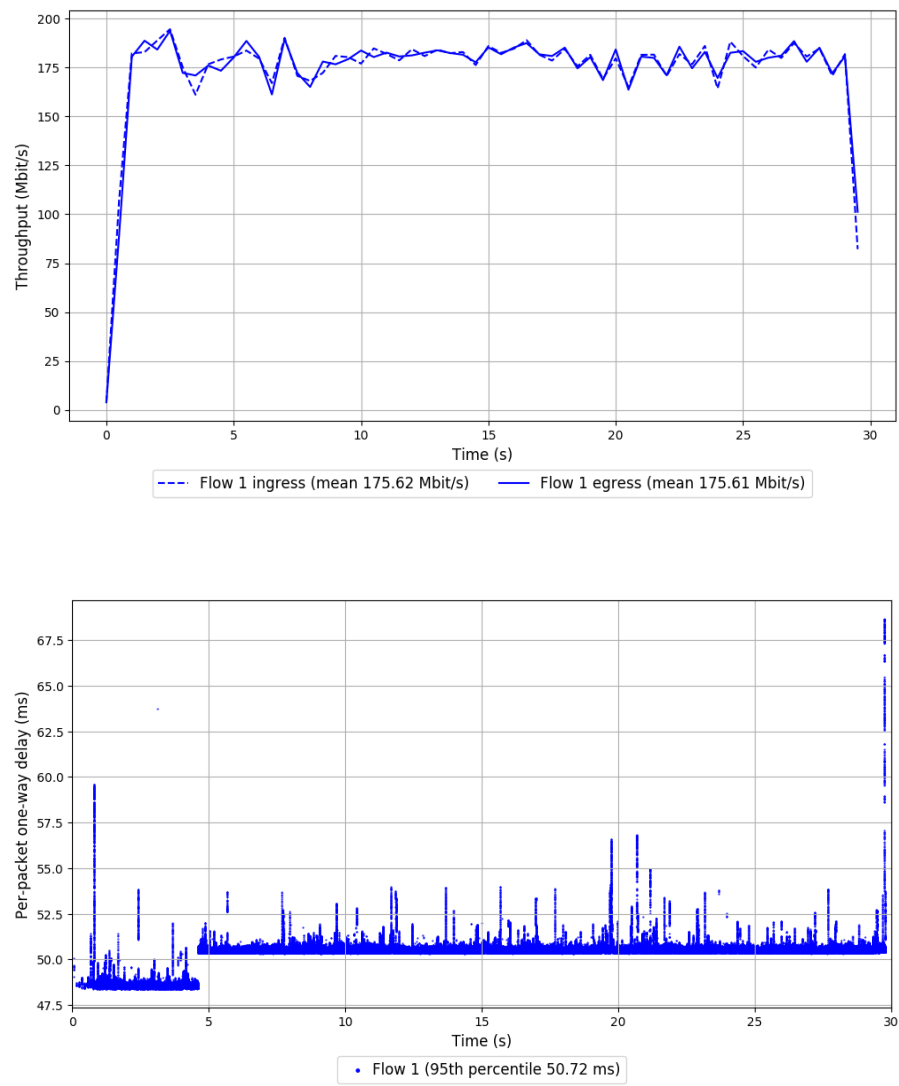
-- Flow 1:

Average throughput: 175.61 Mbit/s

95th percentile per-packet one-way delay: 50.721 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-01-30 21:40:43

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

Below is generated by plot.py at 2018-01-31 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.00 Mbit/s

95th percentile per-packet one-way delay: 50.887 ms

Loss rate: 0.00%

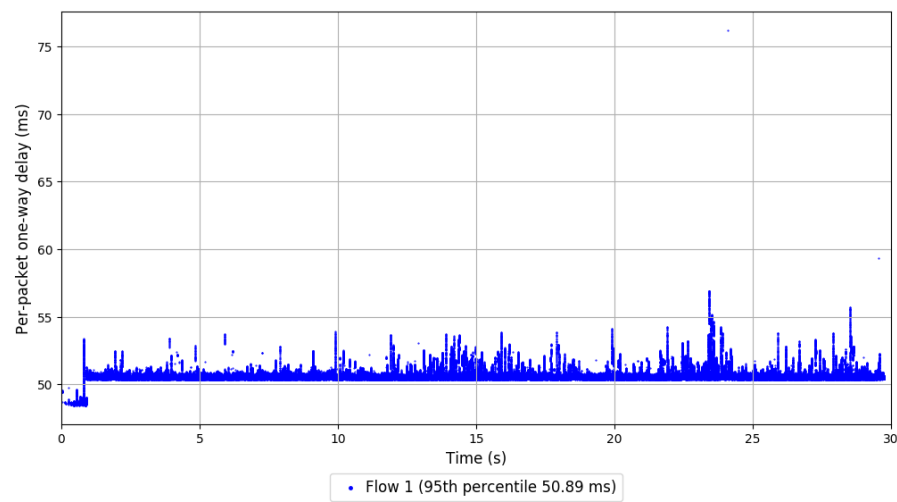
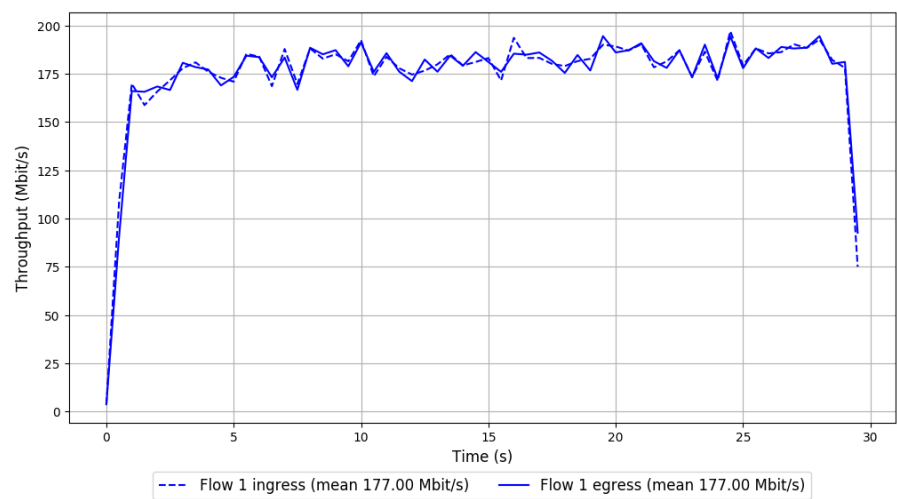
-- Flow 1:

Average throughput: 177.00 Mbit/s

95th percentile per-packet one-way delay: 50.887 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-01-30 21:54:22

End at: 2018-01-30 21:54:52

Below is generated by plot.py at 2018-01-31 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.69 Mbit/s

95th percentile per-packet one-way delay: 51.305 ms

Loss rate: 0.00%

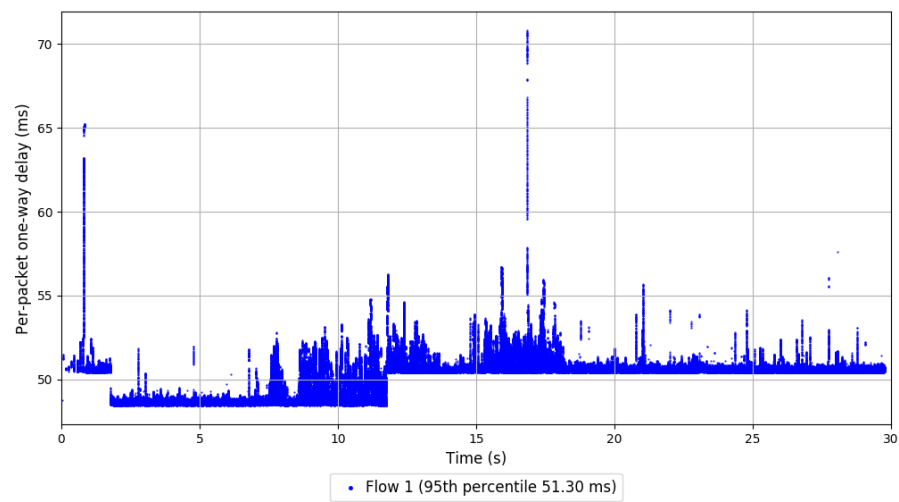
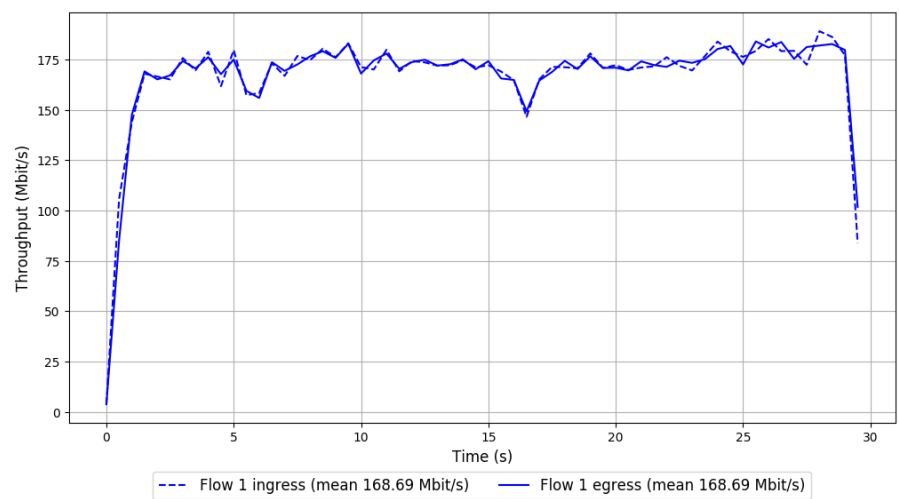
-- Flow 1:

Average throughput: 168.69 Mbit/s

95th percentile per-packet one-way delay: 51.305 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-01-30 22:08:04

End at: 2018-01-30 22:08:34

Below is generated by plot.py at 2018-01-31 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.78 Mbit/s

95th percentile per-packet one-way delay: 50.964 ms

Loss rate: 0.00%

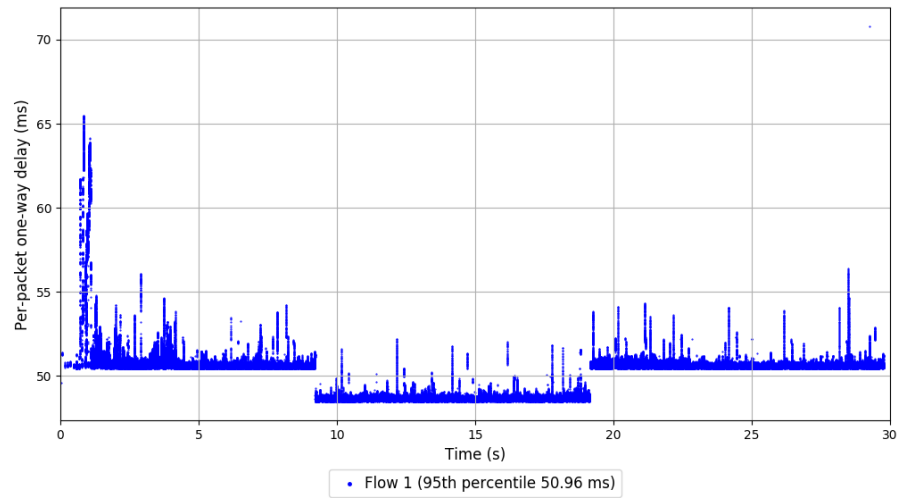
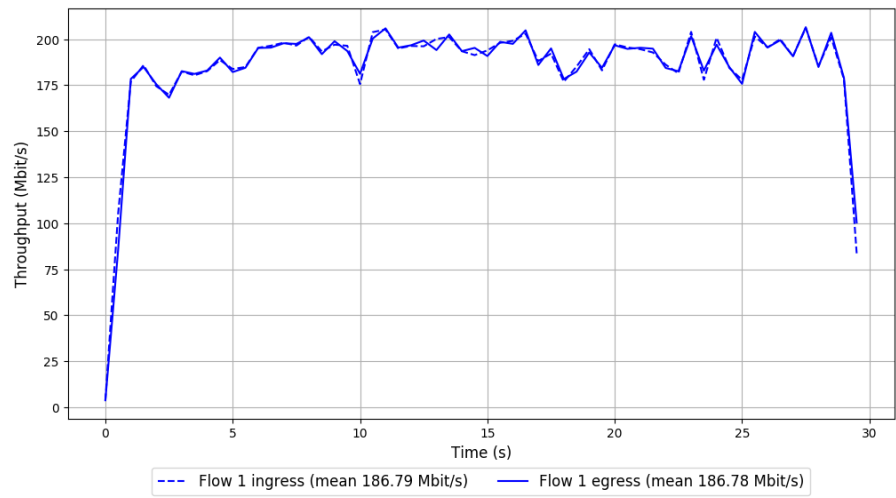
-- Flow 1:

Average throughput: 186.78 Mbit/s

95th percentile per-packet one-way delay: 50.964 ms

Loss rate: 0.00%

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

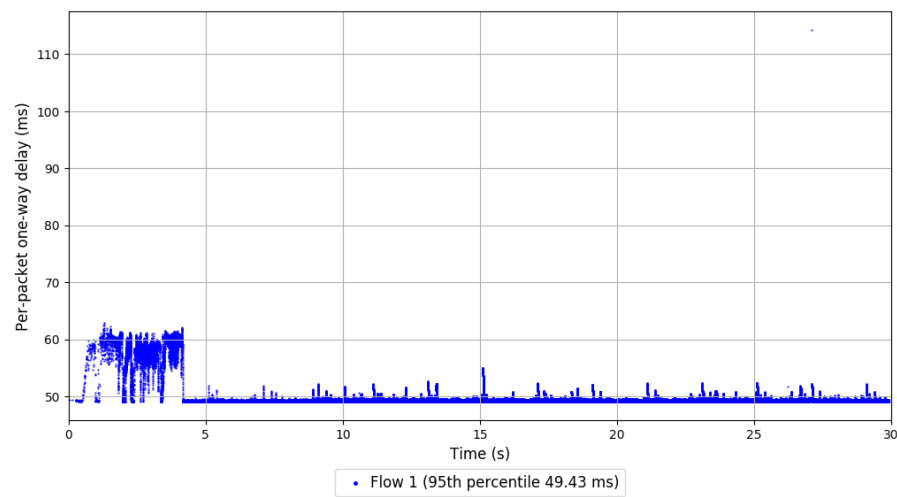
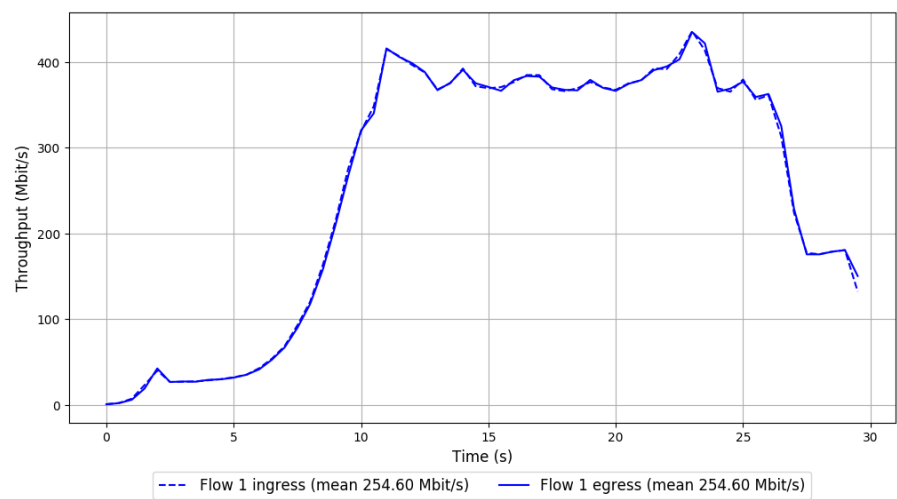


```
Run 1: Statistics of Vivace-latency

Start at: 2018-01-30 20:12:53
End at: 2018-01-30 20:13:24

# Below is generated by plot.py at 2018-01-31 00:23:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 254.60 Mbit/s
95th percentile per-packet one-way delay: 49.431 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.60 Mbit/s
95th percentile per-packet one-way delay: 49.431 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-01-30 20:26:57

End at: 2018-01-30 20:27:27

Below is generated by plot.py at 2018-01-31 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.23 Mbit/s

95th percentile per-packet one-way delay: 49.648 ms

Loss rate: 0.00%

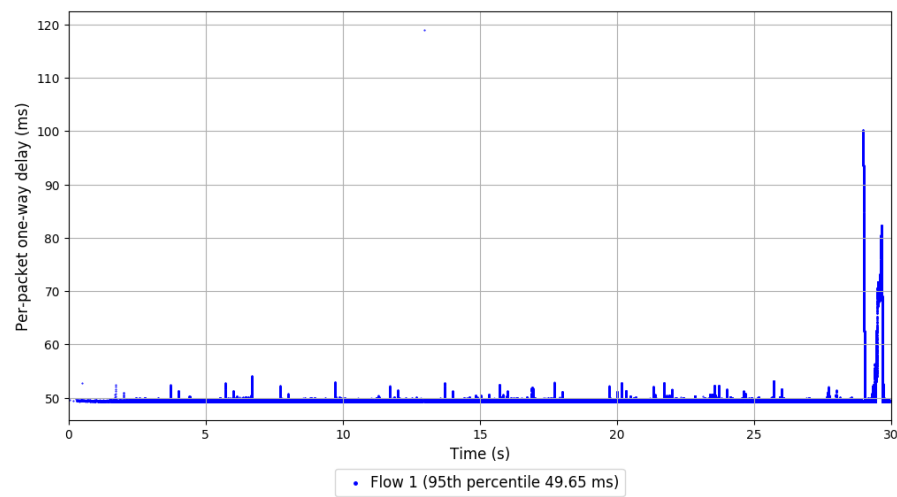
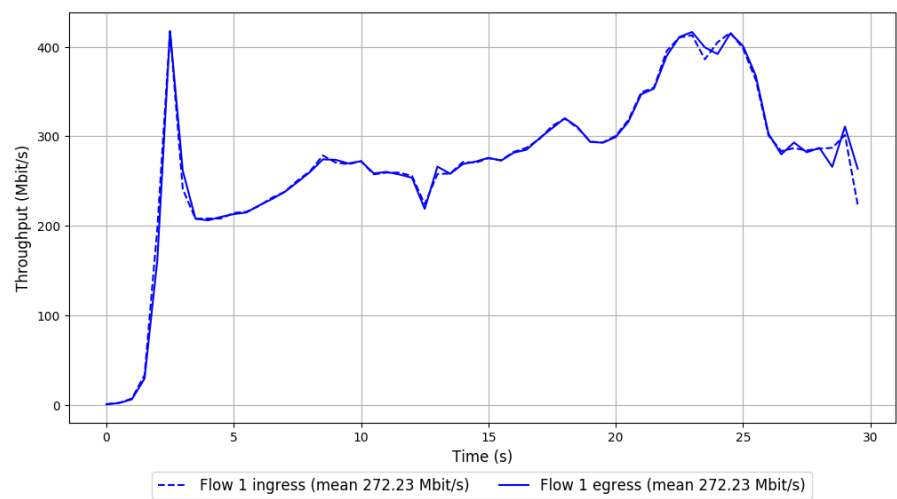
-- Flow 1:

Average throughput: 272.23 Mbit/s

95th percentile per-packet one-way delay: 49.648 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-01-30 20:40:49

End at: 2018-01-30 20:41:19

Below is generated by plot.py at 2018-01-31 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.53 Mbit/s

95th percentile per-packet one-way delay: 50.099 ms

Loss rate: 0.06%

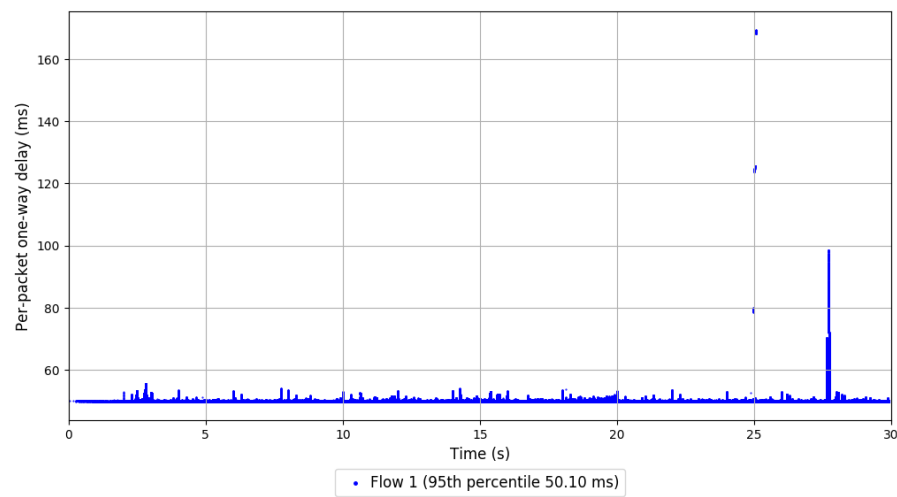
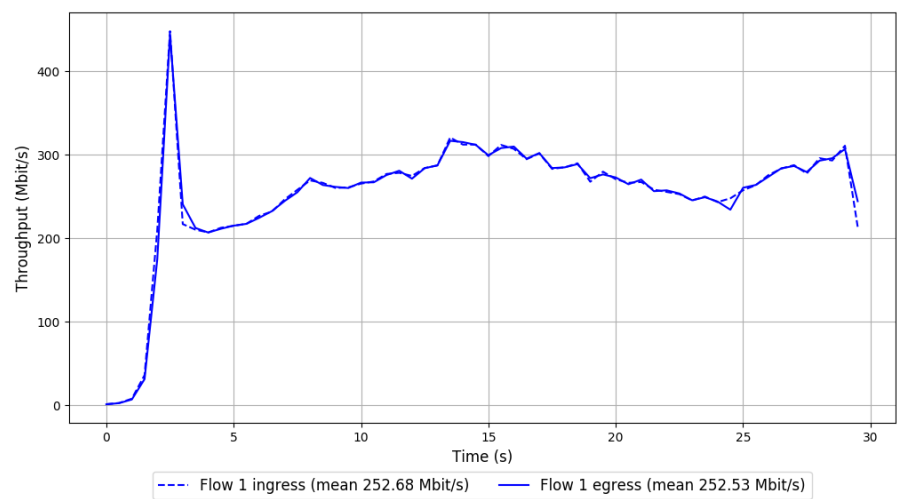
-- Flow 1:

Average throughput: 252.53 Mbit/s

95th percentile per-packet one-way delay: 50.099 ms

Loss rate: 0.06%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-01-30 20:54:31

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

Below is generated by plot.py at 2018-01-31 00:23:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.65 Mbit/s

95th percentile per-packet one-way delay: 49.992 ms

Loss rate: 0.00%

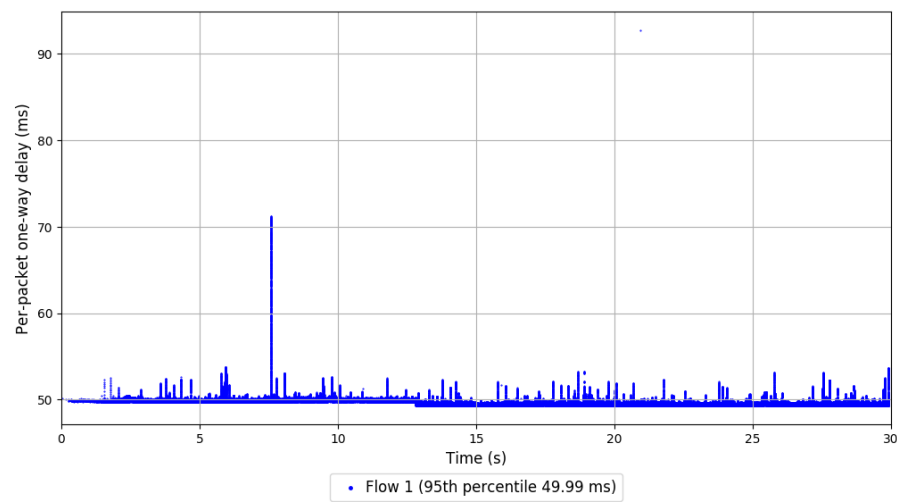
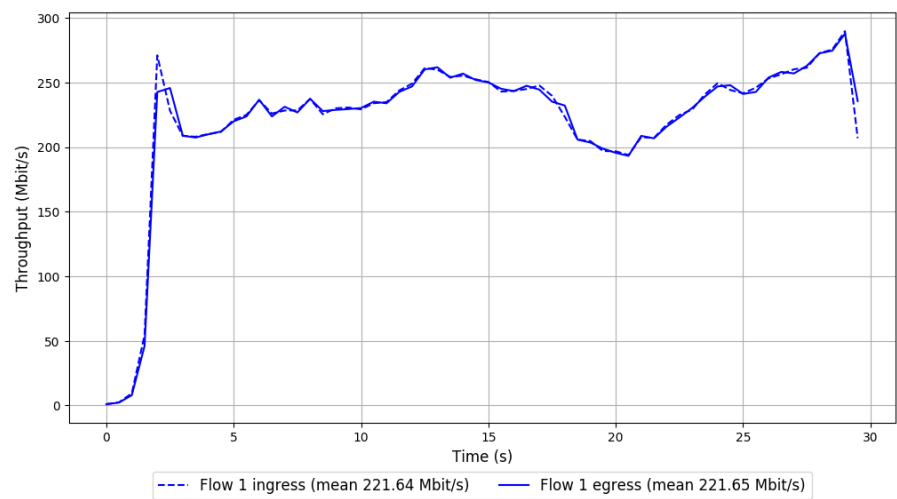
-- Flow 1:

Average throughput: 221.65 Mbit/s

95th percentile per-packet one-way delay: 49.992 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link

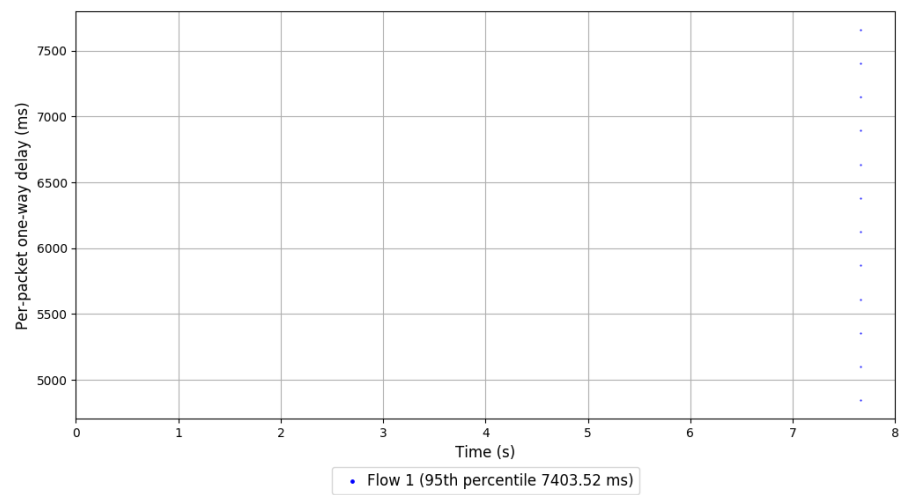
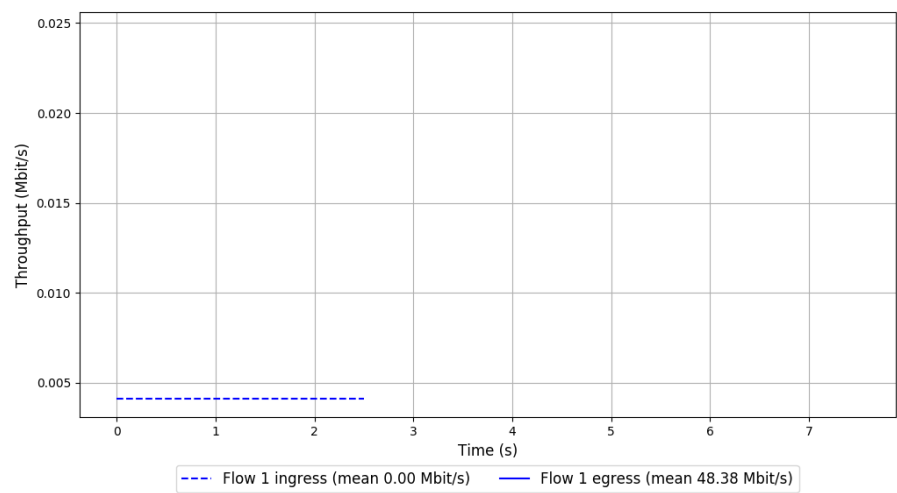


Run 5: Statistics of Vivace-latency

Start at: 2018-01-30 21:08:21

End at: 2018-01-30 21:08:52

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-01-30 21:22:05

End at: 2018-01-30 21:22:35

Below is generated by plot.py at 2018-01-31 00:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.51 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.00%

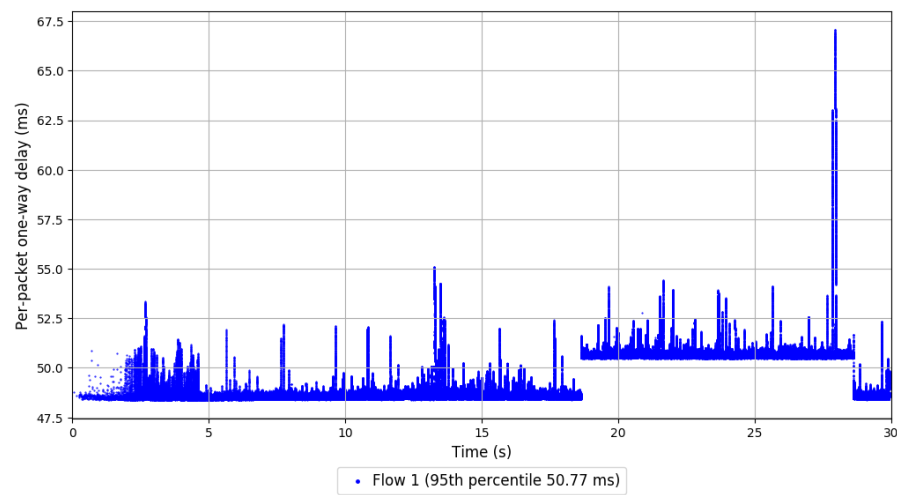
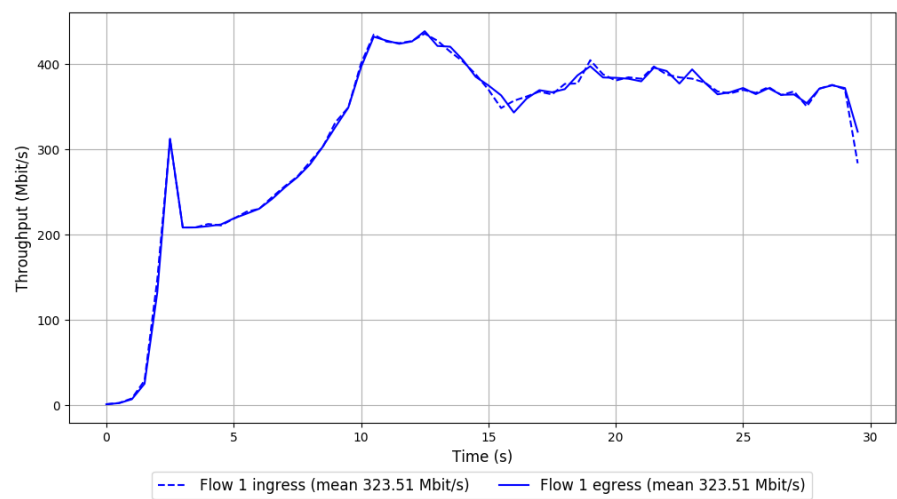
-- Flow 1:

Average throughput: 323.51 Mbit/s

95th percentile per-packet one-way delay: 50.773 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-01-30 21:35:42

End at: 2018-01-30 21:36:12

Below is generated by plot.py at 2018-01-31 00:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.26 Mbit/s

95th percentile per-packet one-way delay: 48.801 ms

Loss rate: 0.00%

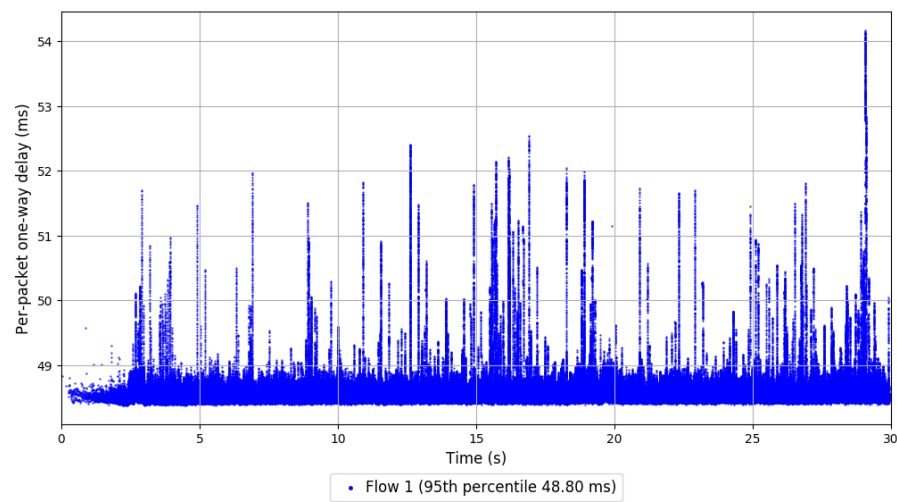
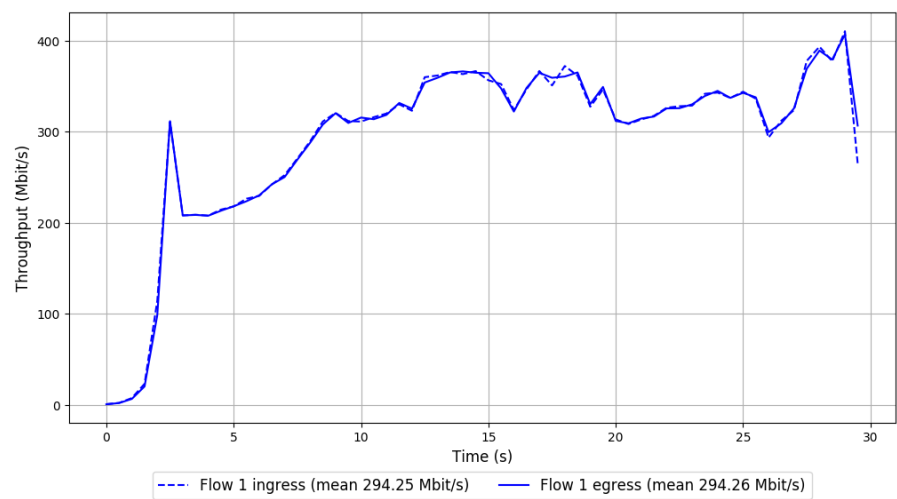
-- Flow 1:

Average throughput: 294.26 Mbit/s

95th percentile per-packet one-way delay: 48.801 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-01-30 21:49:16

End at: 2018-01-30 21:49:46

Below is generated by plot.py at 2018-01-31 00:26:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.85 Mbit/s

95th percentile per-packet one-way delay: 49.051 ms

Loss rate: 0.00%

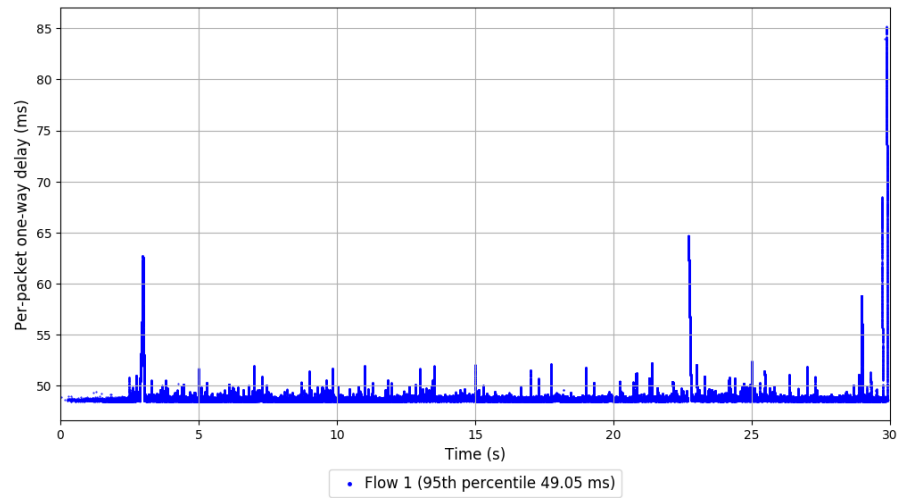
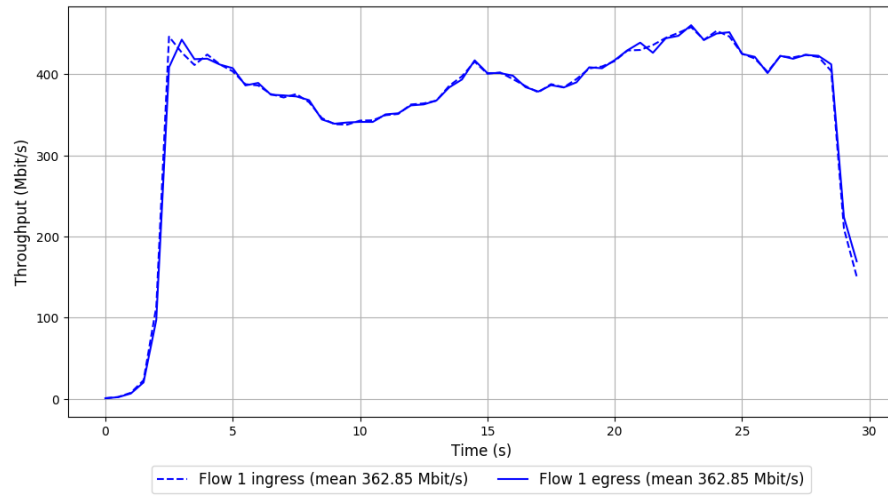
-- Flow 1:

Average throughput: 362.85 Mbit/s

95th percentile per-packet one-way delay: 49.051 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-01-30 22:02:57

End at: 2018-01-30 22:03:27

Below is generated by plot.py at 2018-01-31 00:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.66 Mbit/s

95th percentile per-packet one-way delay: 49.910 ms

Loss rate: 0.00%

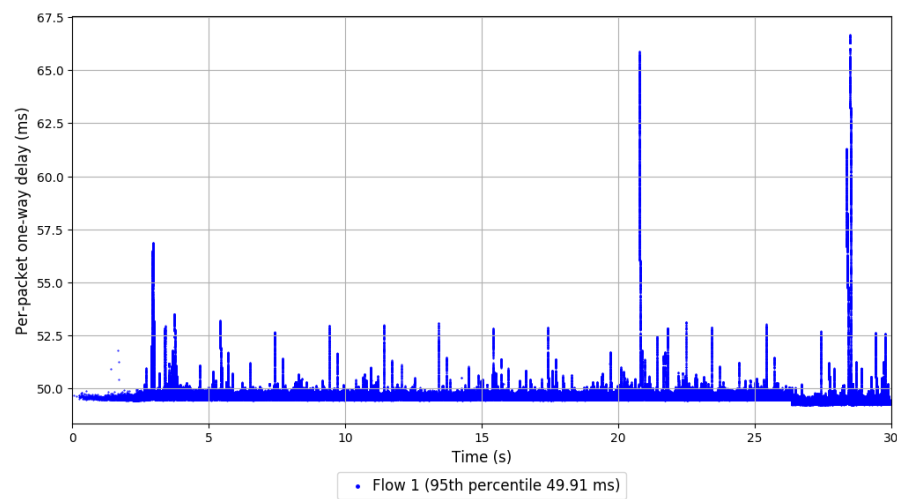
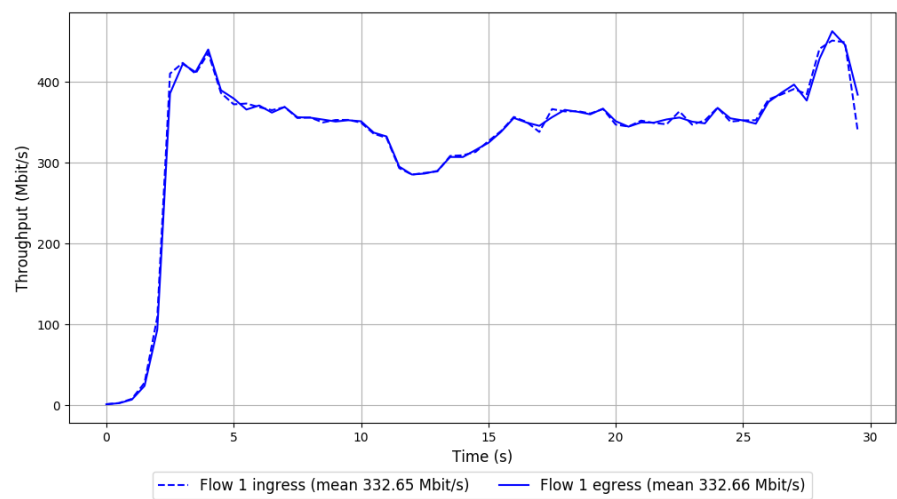
-- Flow 1:

Average throughput: 332.66 Mbit/s

95th percentile per-packet one-way delay: 49.910 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-01-30 22:16:59

End at: 2018-01-30 22:17:29

Below is generated by plot.py at 2018-01-31 00:28:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.64 Mbit/s

95th percentile per-packet one-way delay: 49.873 ms

Loss rate: 0.00%

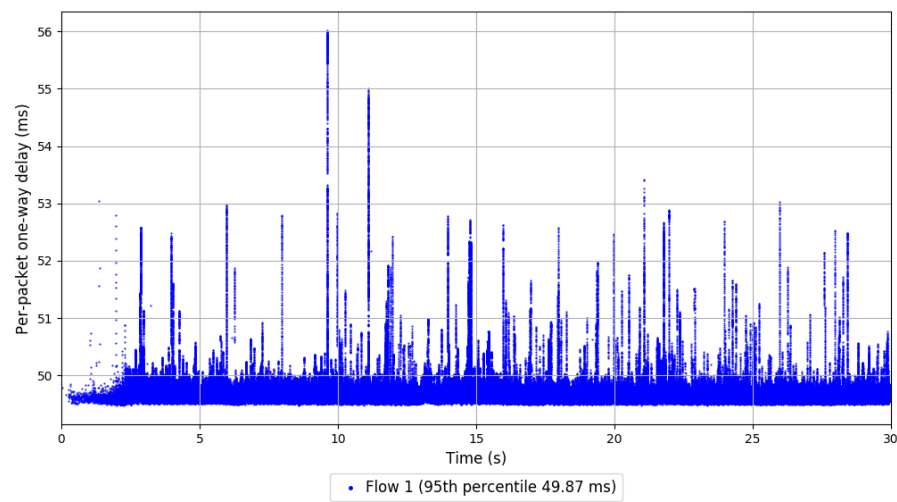
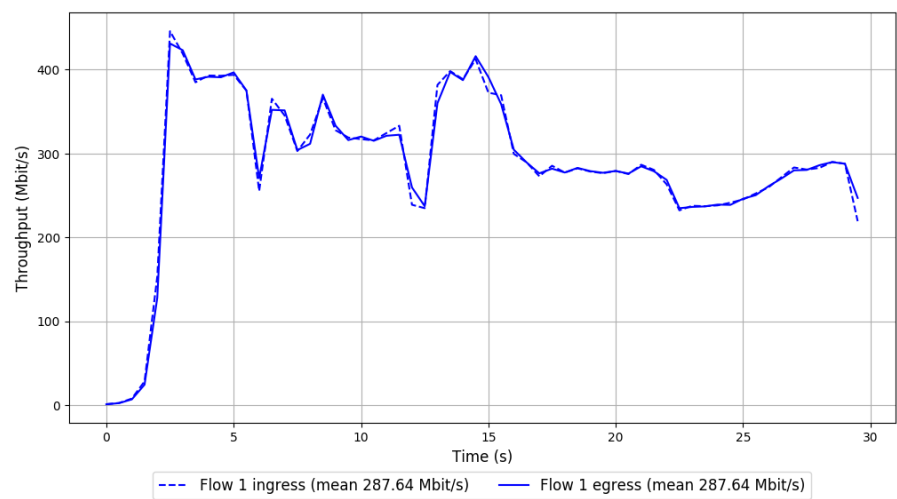
-- Flow 1:

Average throughput: 287.64 Mbit/s

95th percentile per-packet one-way delay: 49.873 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

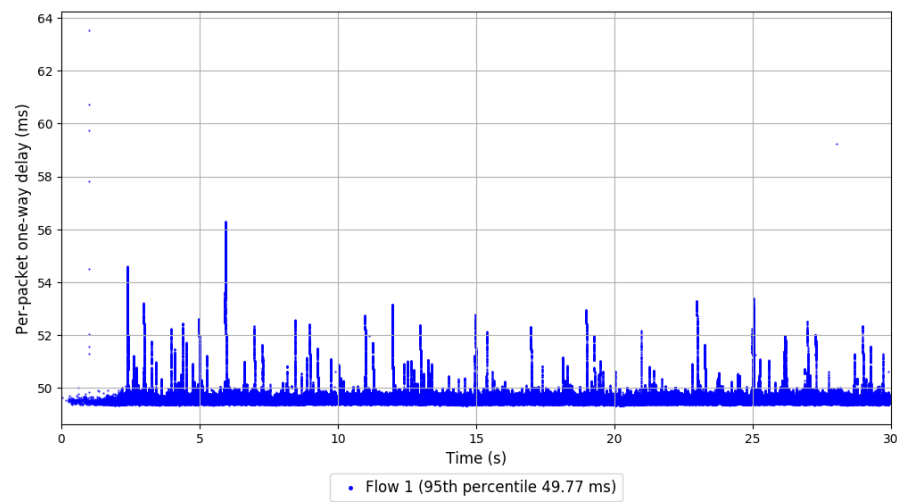
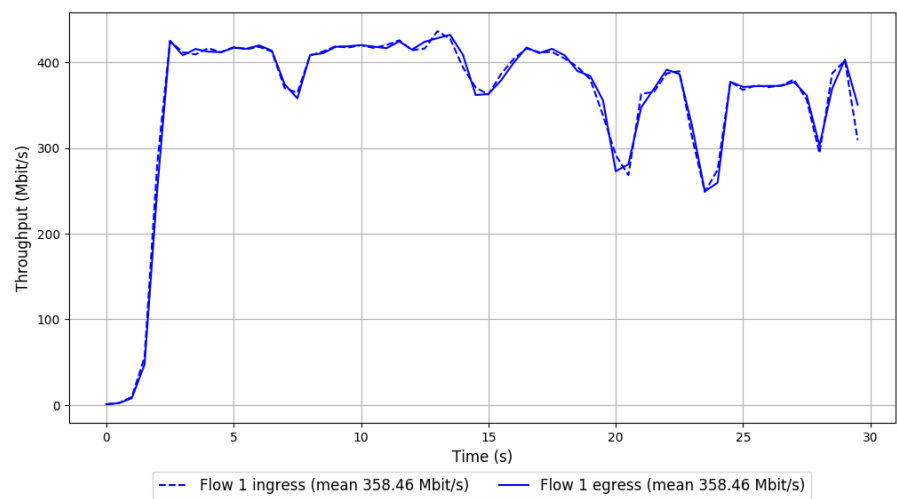


```
Run 1: Statistics of Vivace-loss

Start at: 2018-01-30 20:08:38
End at: 2018-01-30 20:09:08

# Below is generated by plot.py at 2018-01-31 00:29:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.46 Mbit/s
95th percentile per-packet one-way delay: 49.771 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 358.46 Mbit/s
95th percentile per-packet one-way delay: 49.771 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link

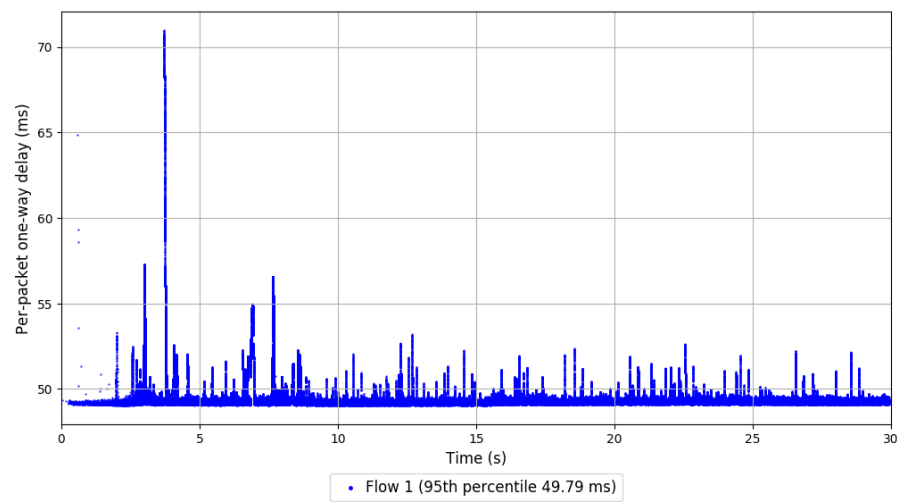
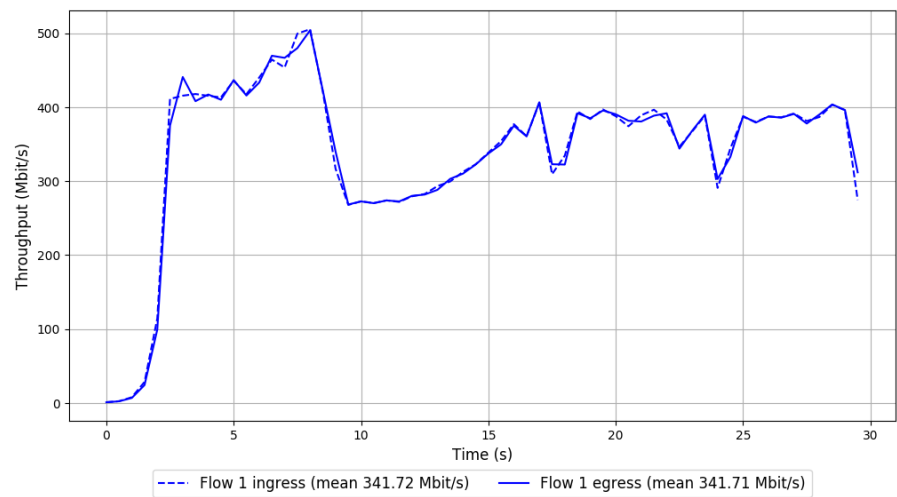


```
Run 2: Statistics of Vivace-loss

Start at: 2018-01-30 20:22:38
End at: 2018-01-30 20:23:08

# Below is generated by plot.py at 2018-01-31 00:29:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 341.71 Mbit/s
95th percentile per-packet one-way delay: 49.793 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 341.71 Mbit/s
95th percentile per-packet one-way delay: 49.793 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-01-30 20:36:35

End at: 2018-01-30 20:37:05

Below is generated by plot.py at 2018-01-31 00:30:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.02 Mbit/s

95th percentile per-packet one-way delay: 49.770 ms

Loss rate: 0.00%

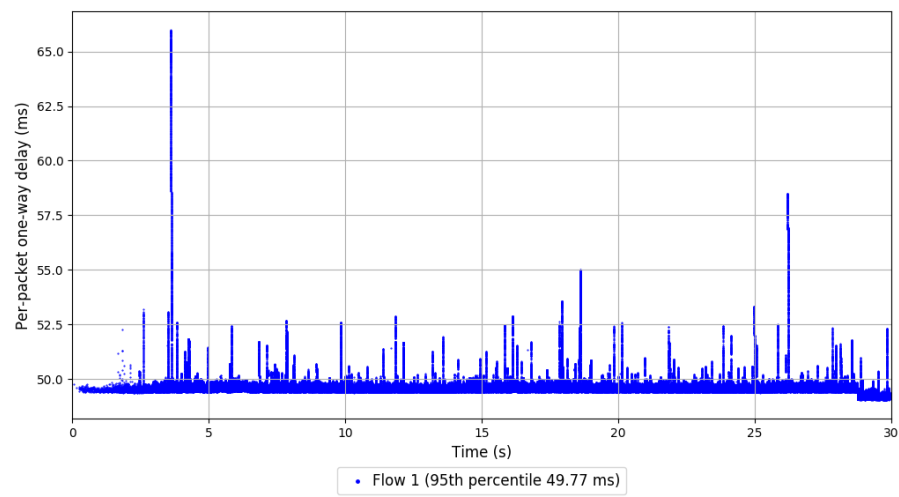
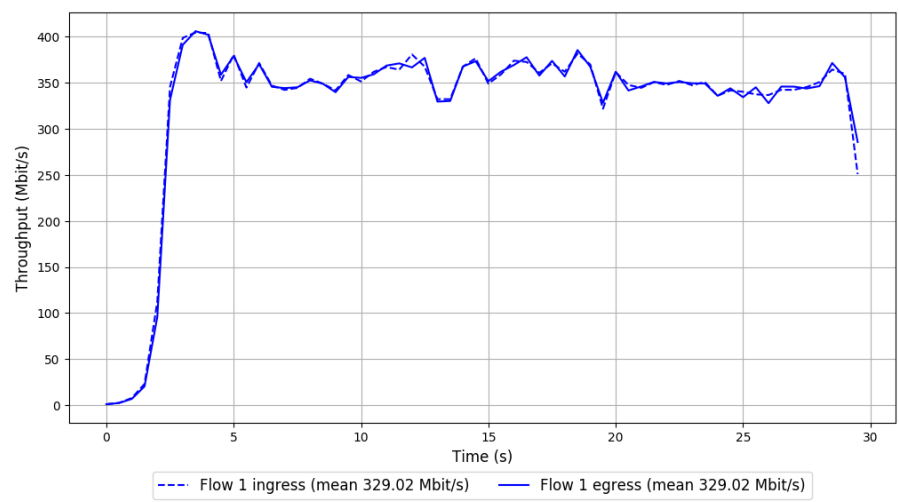
-- Flow 1:

Average throughput: 329.02 Mbit/s

95th percentile per-packet one-way delay: 49.770 ms

Loss rate: 0.00%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-01-30 20:50:20

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

Below is generated by plot.py at 2018-01-31 00:30:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.52 Mbit/s

95th percentile per-packet one-way delay: 49.361 ms

Loss rate: 0.00%

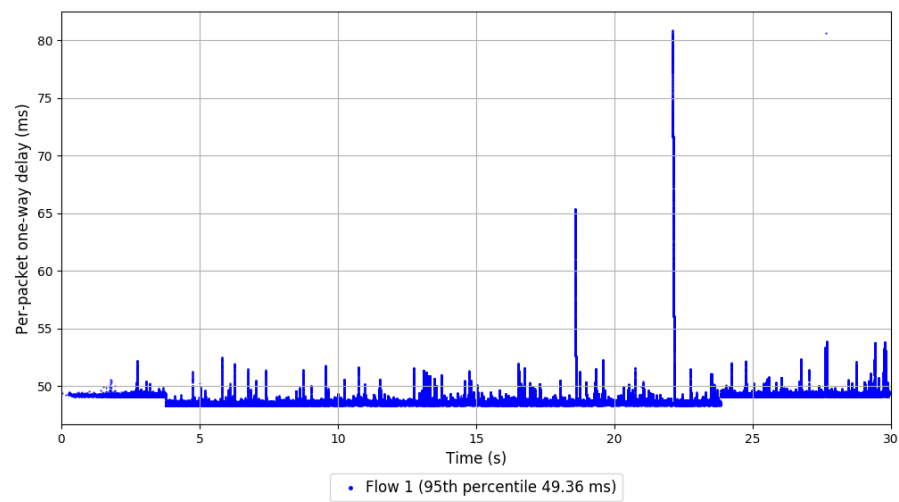
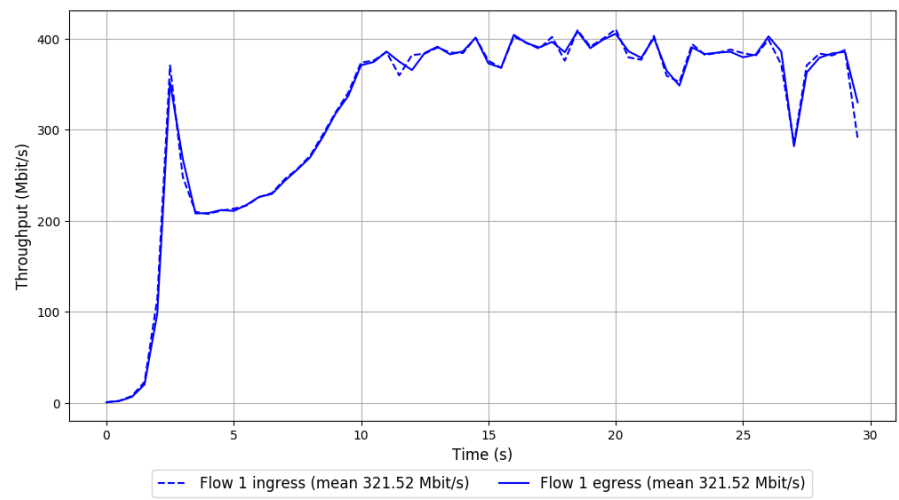
-- Flow 1:

Average throughput: 321.52 Mbit/s

95th percentile per-packet one-way delay: 49.361 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-01-30 21:04:29

End at: 2018-01-30 21:04:59

Below is generated by plot.py at 2018-01-31 00:31:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.93 Mbit/s

95th percentile per-packet one-way delay: 50.218 ms

Loss rate: 0.00%

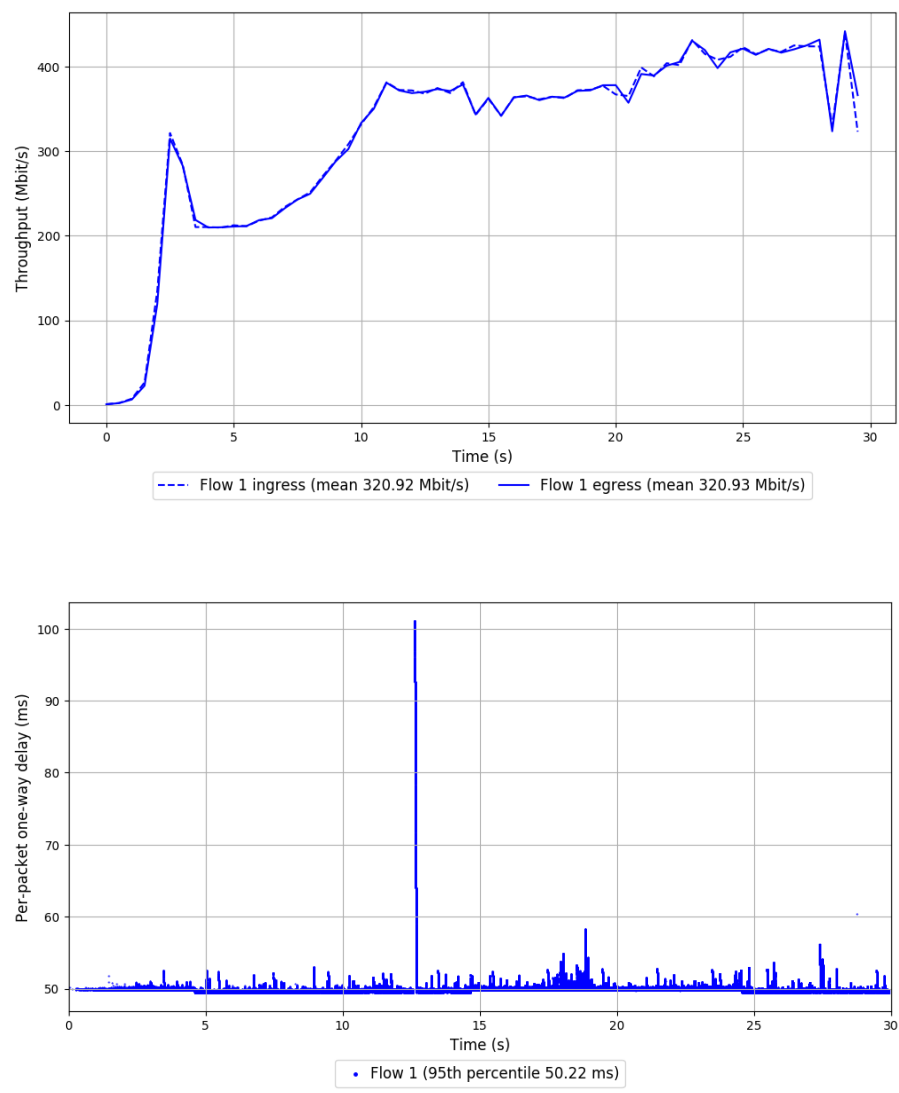
-- Flow 1:

Average throughput: 320.93 Mbit/s

95th percentile per-packet one-way delay: 50.218 ms

Loss rate: 0.00%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-01-30 21:17:51

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

Below is generated by plot.py at 2018-01-31 00:33:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.12 Mbit/s

95th percentile per-packet one-way delay: 50.223 ms

Loss rate: 0.00%

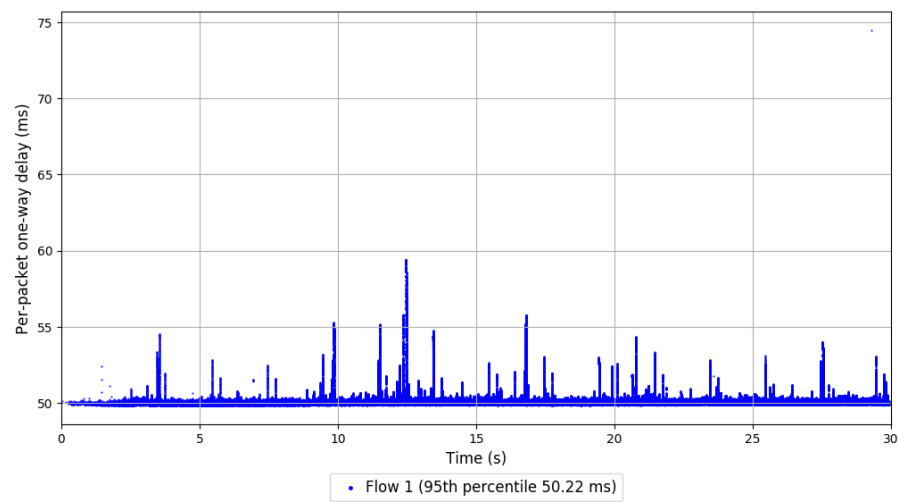
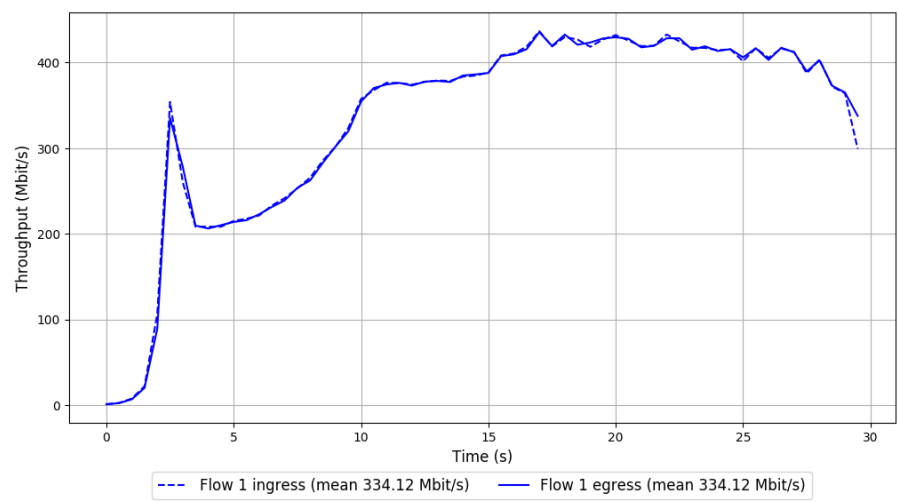
-- Flow 1:

Average throughput: 334.12 Mbit/s

95th percentile per-packet one-way delay: 50.223 ms

Loss rate: 0.00%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-01-30 21:31:36

End at: 2018-01-30 21:32:06

Below is generated by plot.py at 2018-01-31 00:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.14 Mbit/s

95th percentile per-packet one-way delay: 49.956 ms

Loss rate: 0.00%

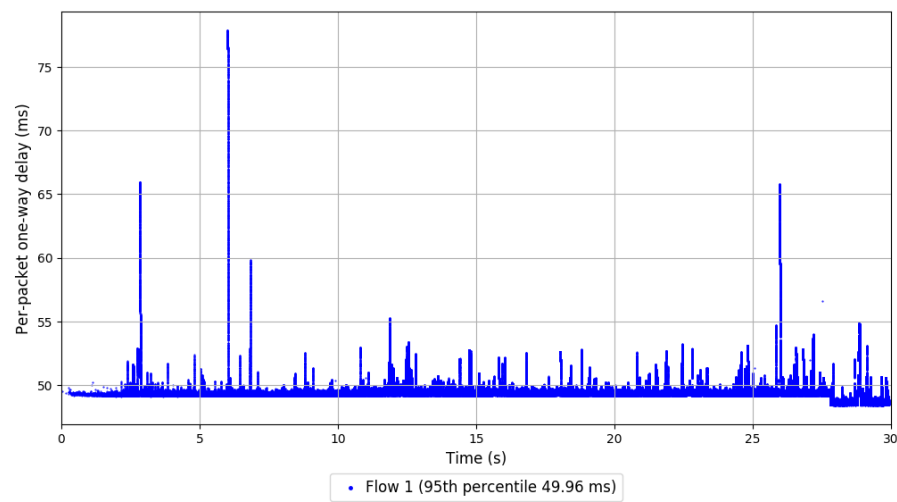
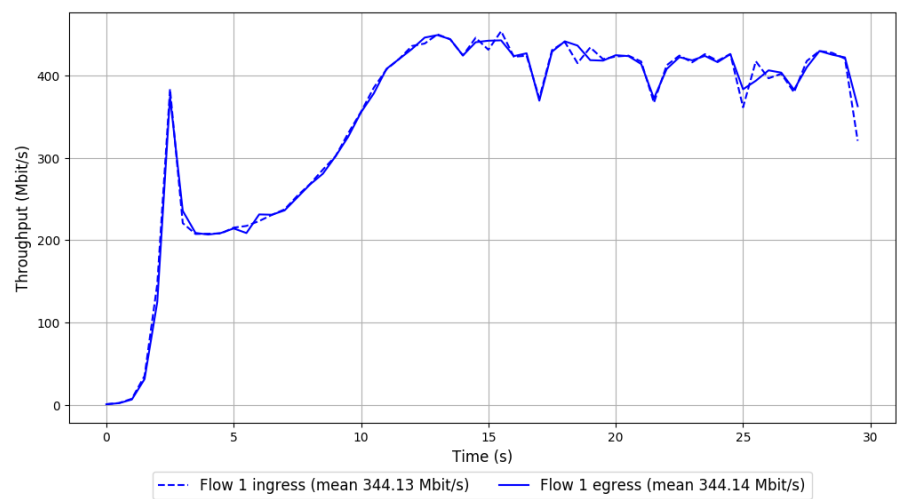
-- Flow 1:

Average throughput: 344.14 Mbit/s

95th percentile per-packet one-way delay: 49.956 ms

Loss rate: 0.00%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-01-30 21:45:11

End at: 2018-01-30 21:45:41

Below is generated by plot.py at 2018-01-31 00:36:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.99 Mbit/s

95th percentile per-packet one-way delay: 50.946 ms

Loss rate: 0.00%

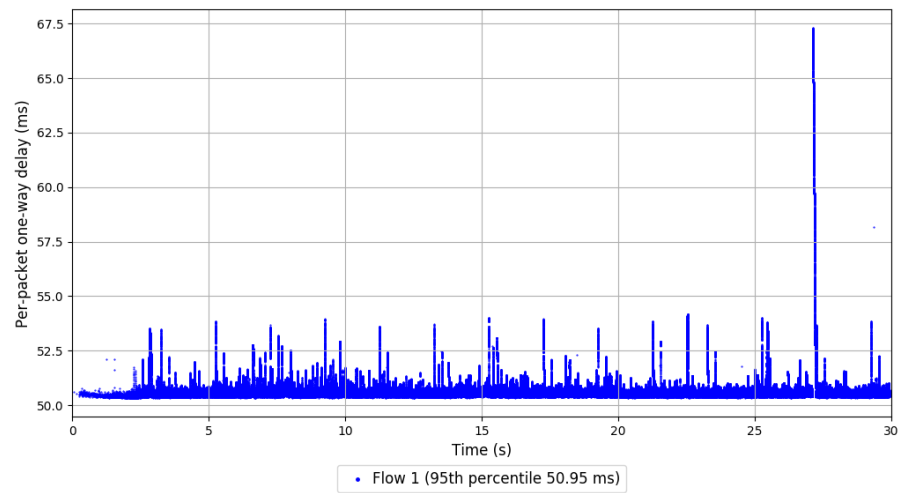
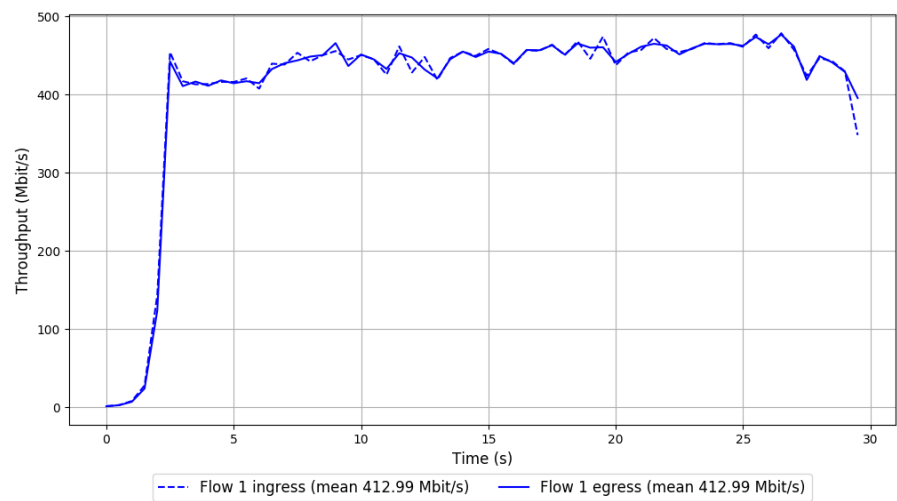
-- Flow 1:

Average throughput: 412.99 Mbit/s

95th percentile per-packet one-way delay: 50.946 ms

Loss rate: 0.00%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-01-30 21:58:50

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

Below is generated by plot.py at 2018-01-31 00:36:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.35 Mbit/s

95th percentile per-packet one-way delay: 49.676 ms

Loss rate: 0.00%

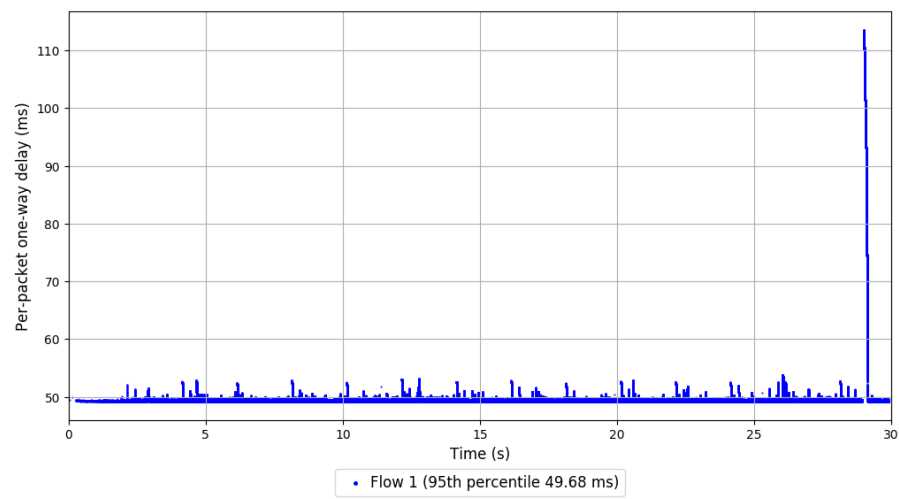
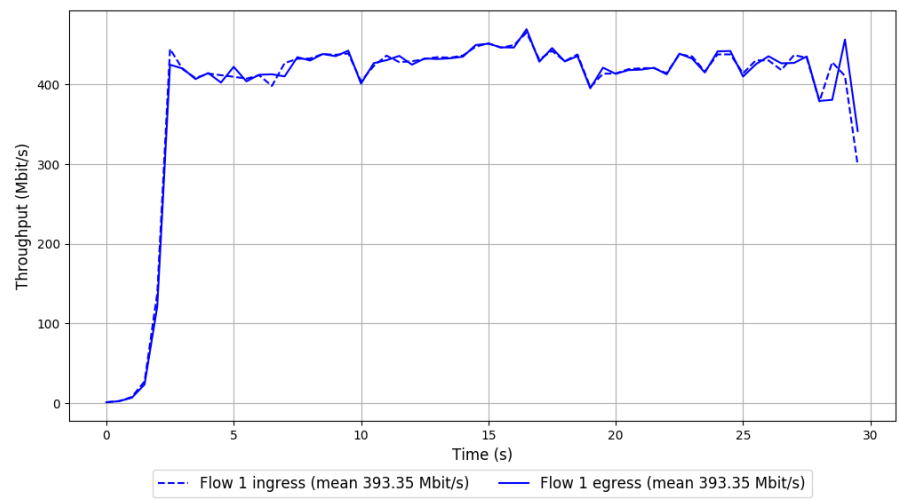
-- Flow 1:

Average throughput: 393.35 Mbit/s

95th percentile per-packet one-way delay: 49.676 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-01-30 22:12:47

End at: 2018-01-30 22:13:17

Below is generated by plot.py at 2018-01-31 00:36:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.05 Mbit/s

95th percentile per-packet one-way delay: 49.715 ms

Loss rate: 0.00%

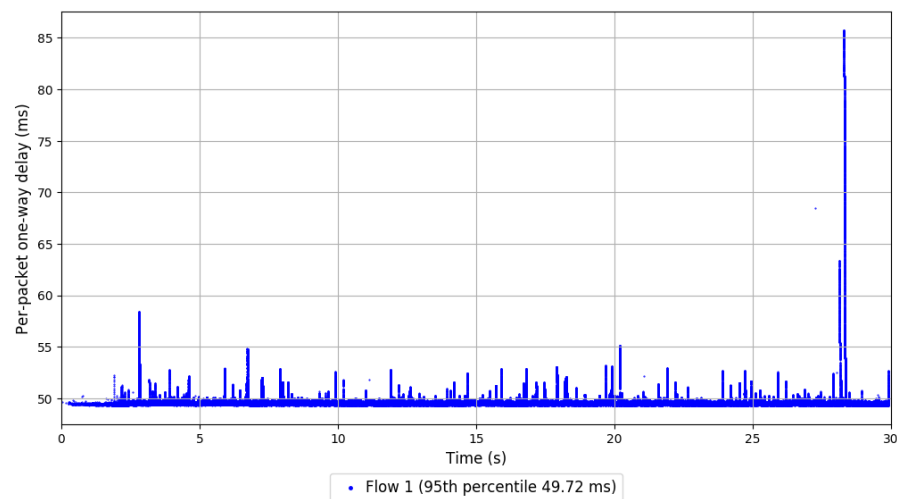
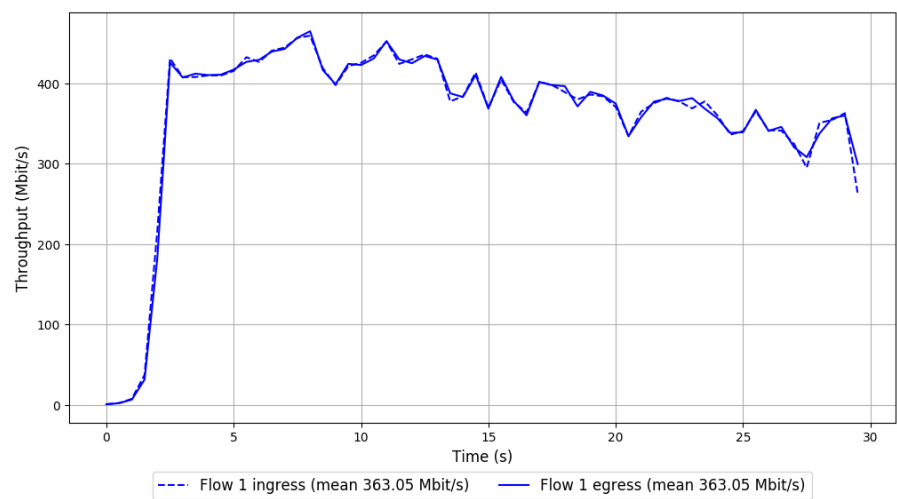
-- Flow 1:

Average throughput: 363.05 Mbit/s

95th percentile per-packet one-way delay: 49.715 ms

Loss rate: 0.00%

Run 10: Report of Vivace-loss — Data Link

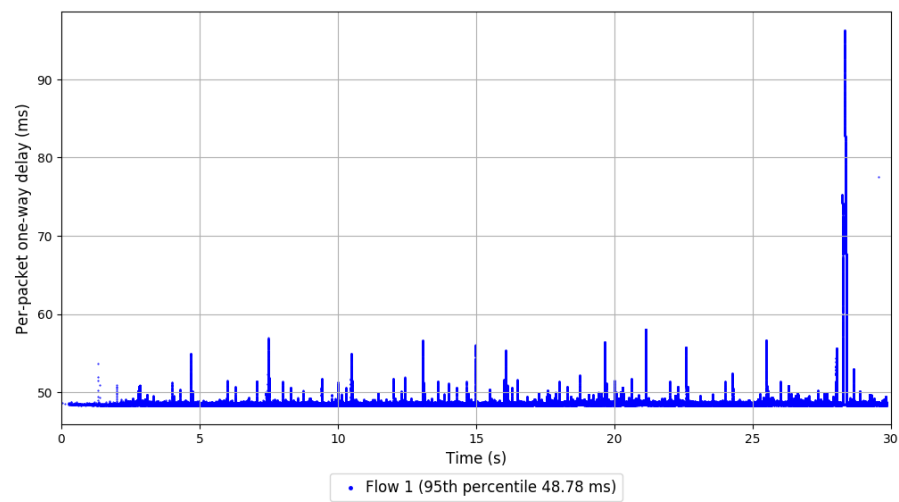
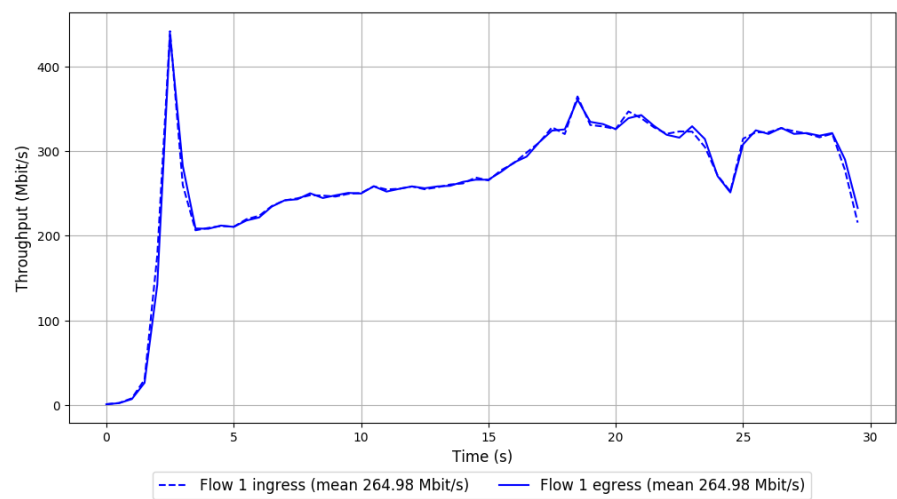


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-01-30 20:05:41
End at: 2018-01-30 20:06:11

# Below is generated by plot.py at 2018-01-31 00:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 264.98 Mbit/s
95th percentile per-packet one-way delay: 48.778 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 264.98 Mbit/s
95th percentile per-packet one-way delay: 48.778 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link

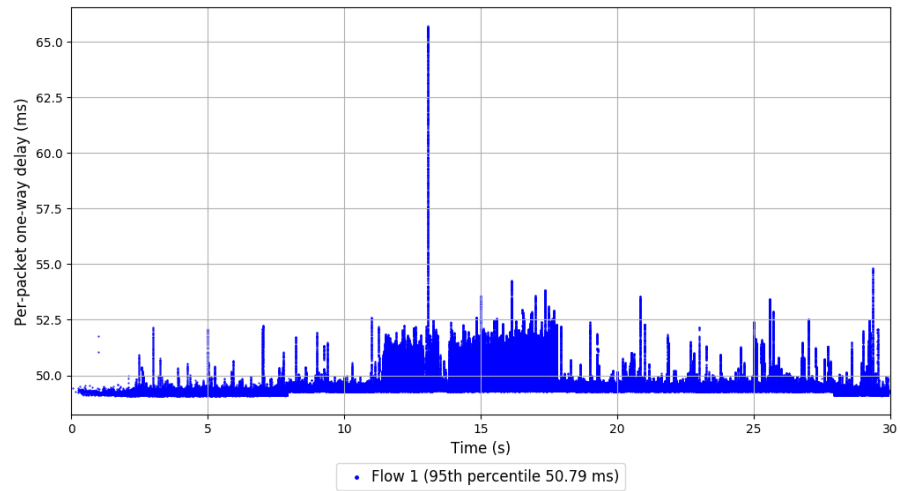
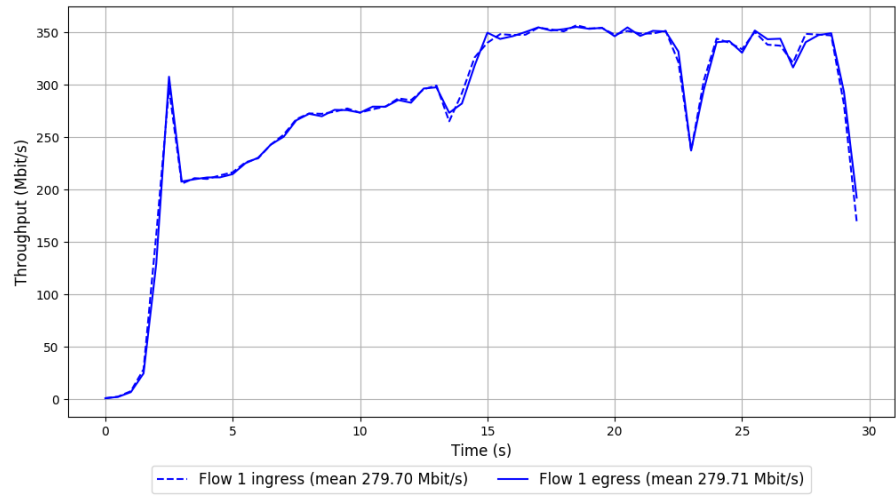


```
Run 2: Statistics of Vivace-LTE

Start at: 2018-01-30 20:19:26
End at: 2018-01-30 20:19:56

# Below is generated by plot.py at 2018-01-31 00:36:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 279.71 Mbit/s
95th percentile per-packet one-way delay: 50.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 279.71 Mbit/s
95th percentile per-packet one-way delay: 50.794 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-01-30 20:33:34

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

Below is generated by plot.py at 2018-01-31 00:38:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.05 Mbit/s

95th percentile per-packet one-way delay: 48.840 ms

Loss rate: 0.00%

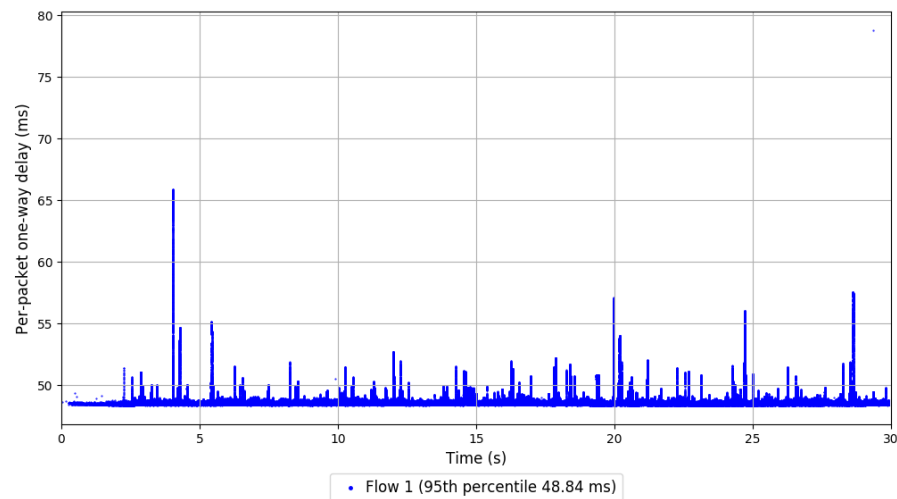
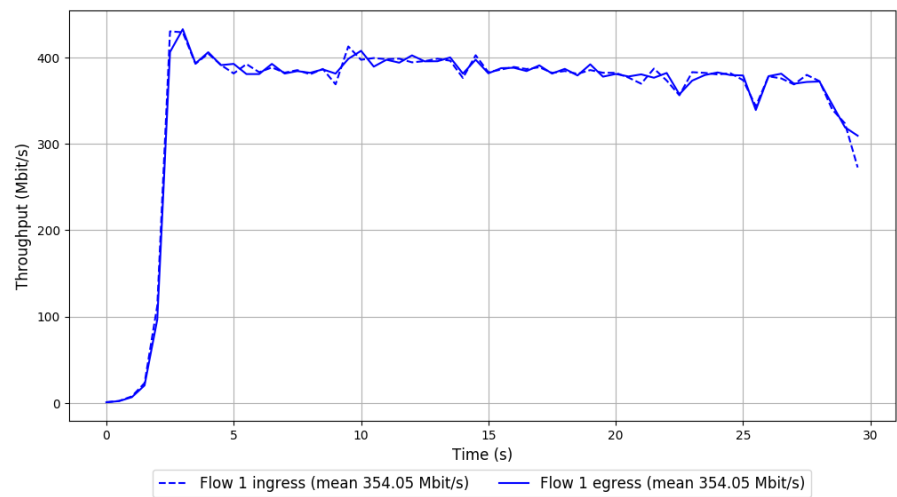
-- Flow 1:

Average throughput: 354.05 Mbit/s

95th percentile per-packet one-way delay: 48.840 ms

Loss rate: 0.00%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-01-30 20:47:20

End at: 2018-01-30 20:47:50

Below is generated by plot.py at 2018-01-31 00:41:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.55 Mbit/s

95th percentile per-packet one-way delay: 48.878 ms

Loss rate: 0.00%

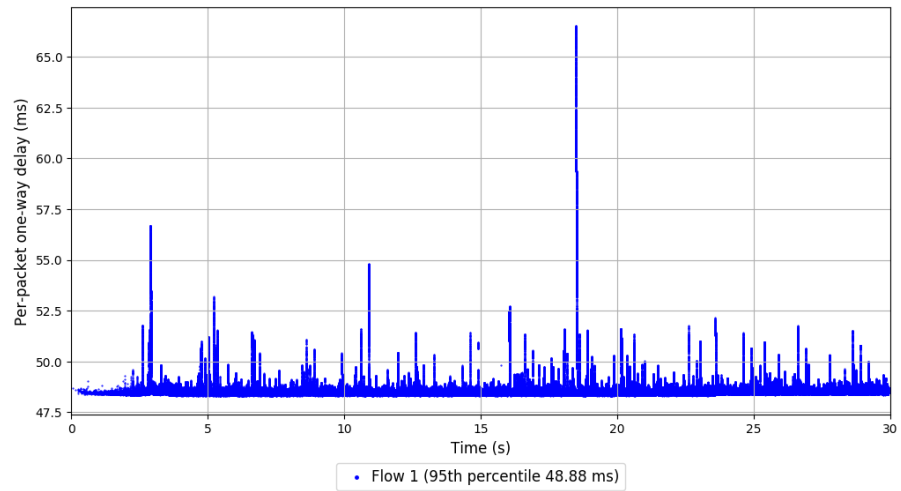
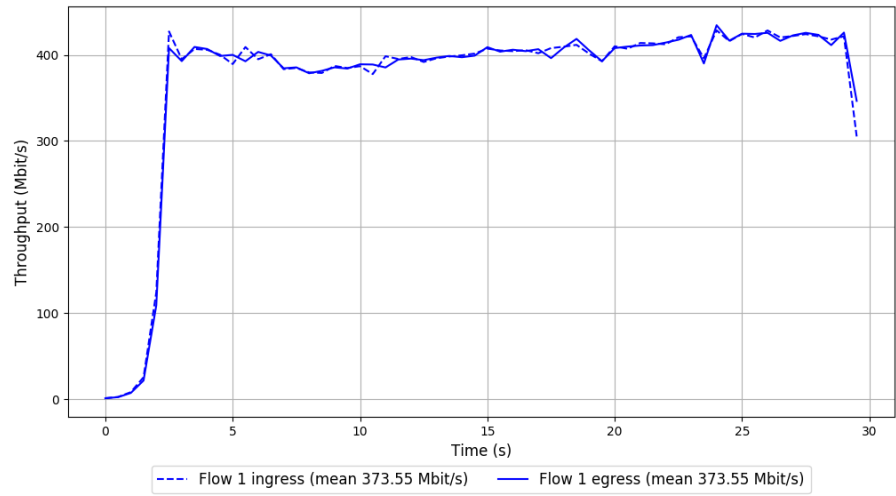
-- Flow 1:

Average throughput: 373.55 Mbit/s

95th percentile per-packet one-way delay: 48.878 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-01-30 21:01:05

End at: 2018-01-30 21:01:35

Below is generated by plot.py at 2018-01-31 00:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.61 Mbit/s

95th percentile per-packet one-way delay: 49.919 ms

Loss rate: 0.00%

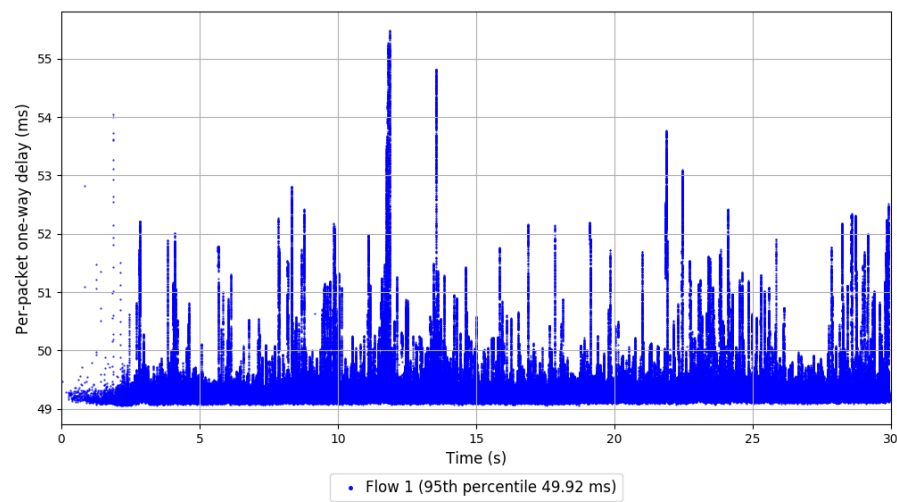
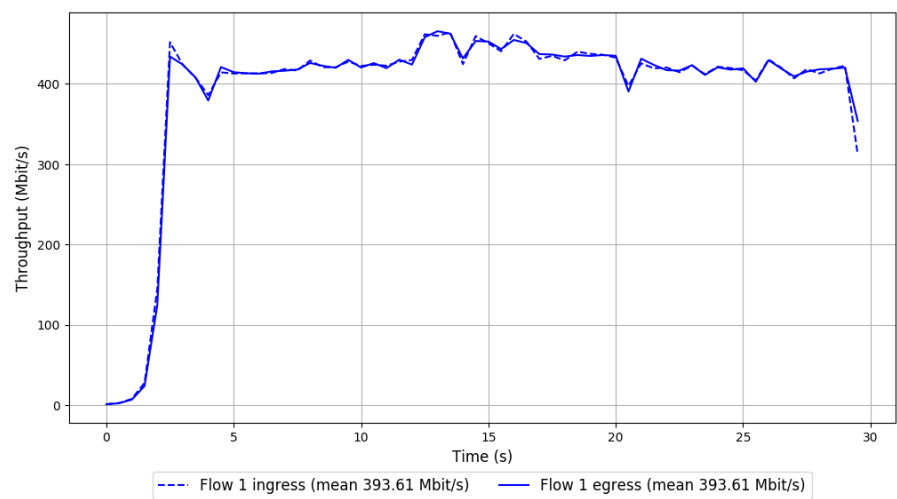
-- Flow 1:

Average throughput: 393.61 Mbit/s

95th percentile per-packet one-way delay: 49.919 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-01-30 21:14:31

End at: 2018-01-30 21:15:01

Below is generated by plot.py at 2018-01-31 00:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.88 Mbit/s

95th percentile per-packet one-way delay: 49.747 ms

Loss rate: 0.00%

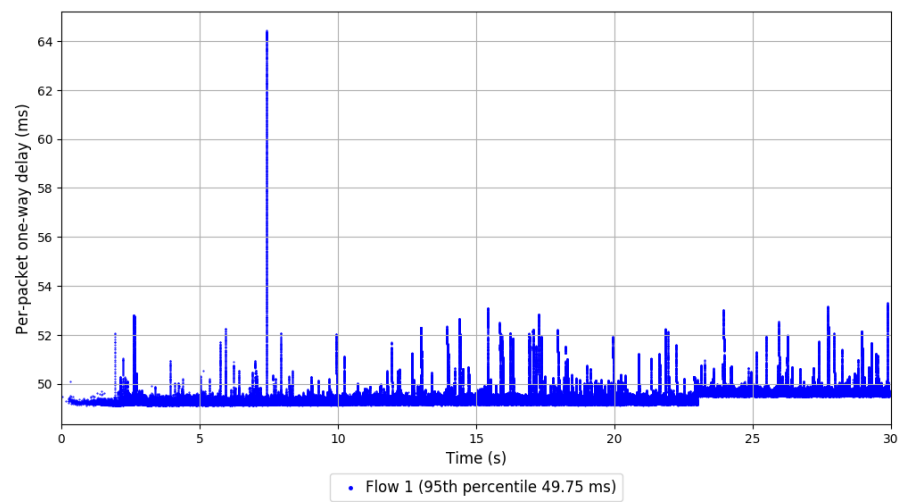
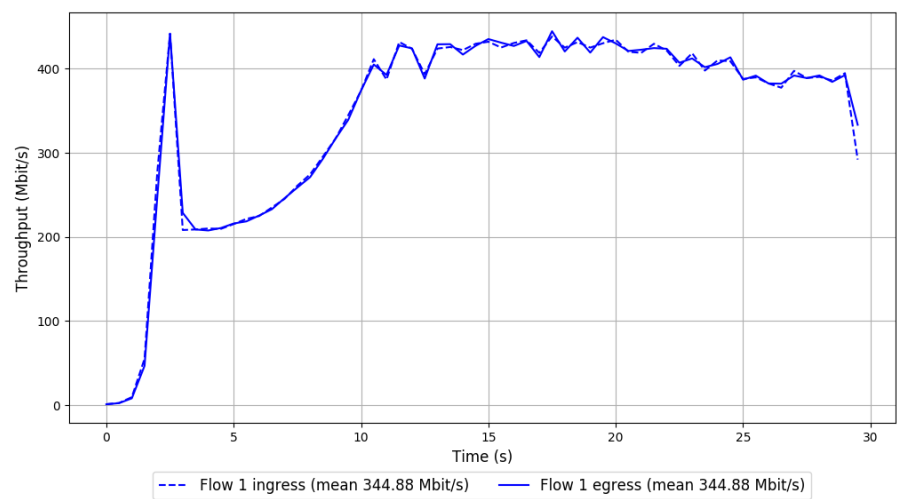
-- Flow 1:

Average throughput: 344.88 Mbit/s

95th percentile per-packet one-way delay: 49.747 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-01-30 21:28:41

End at: 2018-01-30 21:29:11

Below is generated by plot.py at 2018-01-31 00:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.94 Mbit/s

95th percentile per-packet one-way delay: 50.743 ms

Loss rate: 0.00%

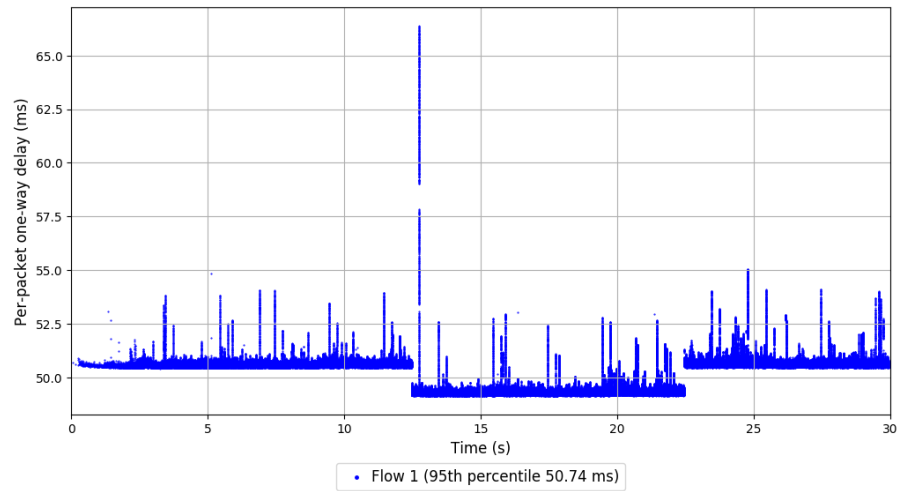
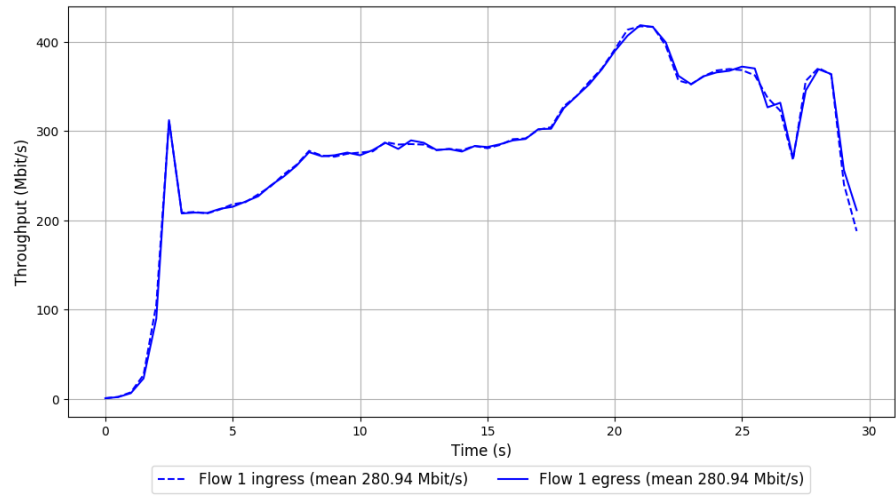
-- Flow 1:

Average throughput: 280.94 Mbit/s

95th percentile per-packet one-way delay: 50.743 ms

Loss rate: 0.00%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-01-30 21:42:15

End at: 2018-01-30 21:42:45

Below is generated by plot.py at 2018-01-31 00:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.92 Mbit/s

95th percentile per-packet one-way delay: 49.764 ms

Loss rate: 0.00%

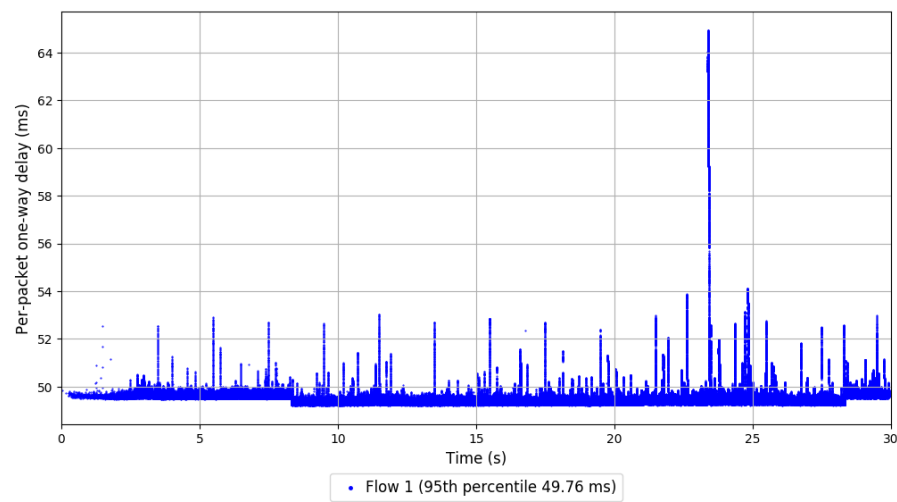
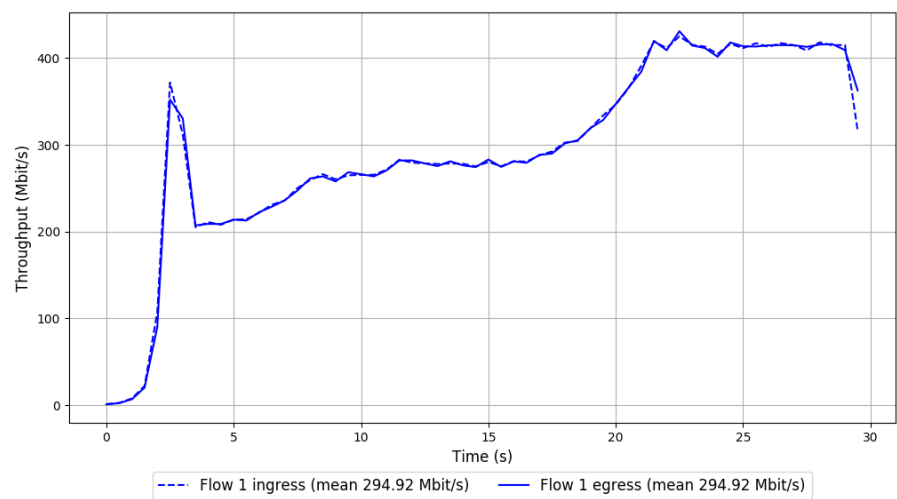
-- Flow 1:

Average throughput: 294.92 Mbit/s

95th percentile per-packet one-way delay: 49.764 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-01-30 21:55:54

End at: 2018-01-30 21:56:24

Below is generated by plot.py at 2018-01-31 00:41:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.95 Mbit/s

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

Loss rate: 0.00%

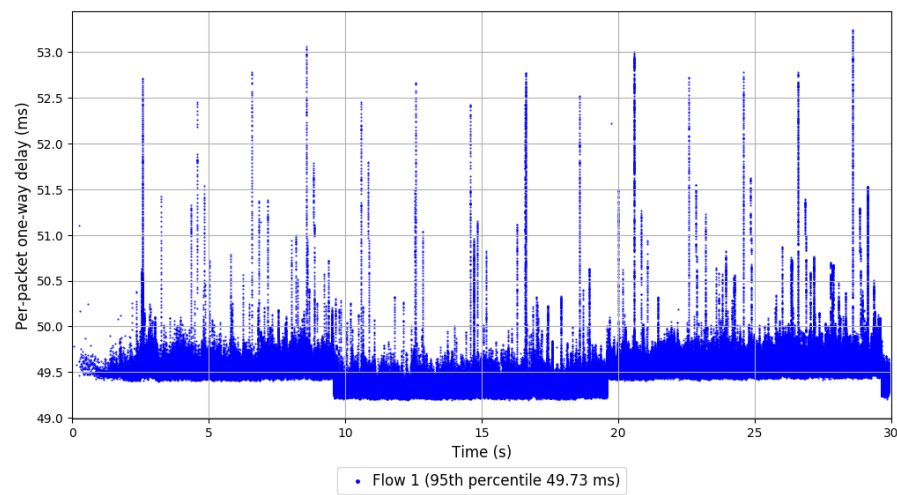
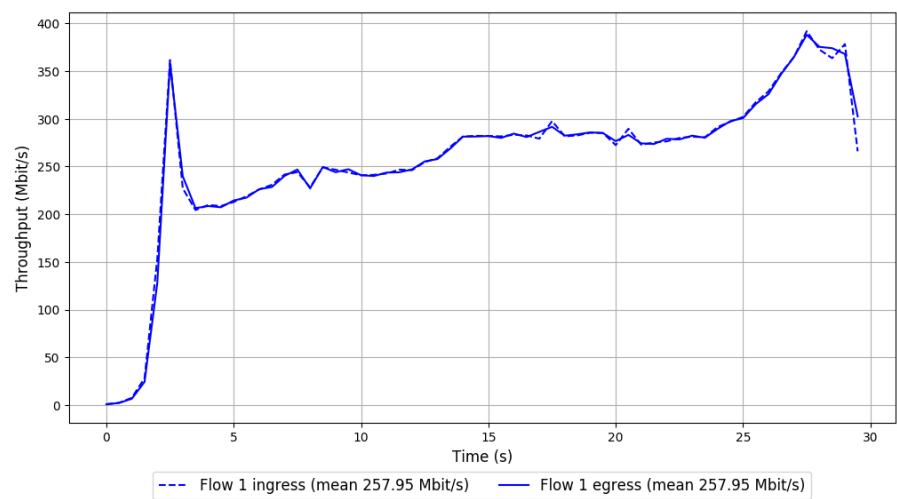
-- Flow 1:

Average throughput: 257.95 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-01-30 22:09:37
End at: 2018-01-30 22:10:07

# Below is generated by plot.py at 2018-01-31 00:41:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.55 Mbit/s
95th percentile per-packet one-way delay: 49.511 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 275.55 Mbit/s
95th percentile per-packet one-way delay: 49.511 ms
Loss rate: 0.09%
```

Run 10: Report of Vivace-LTE — Data Link

