

Pantheon Report

Generated at 2018-02-20 08:57:50 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

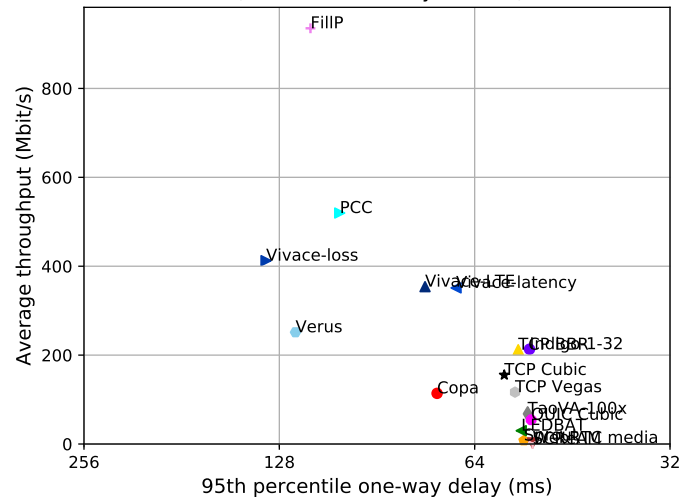
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

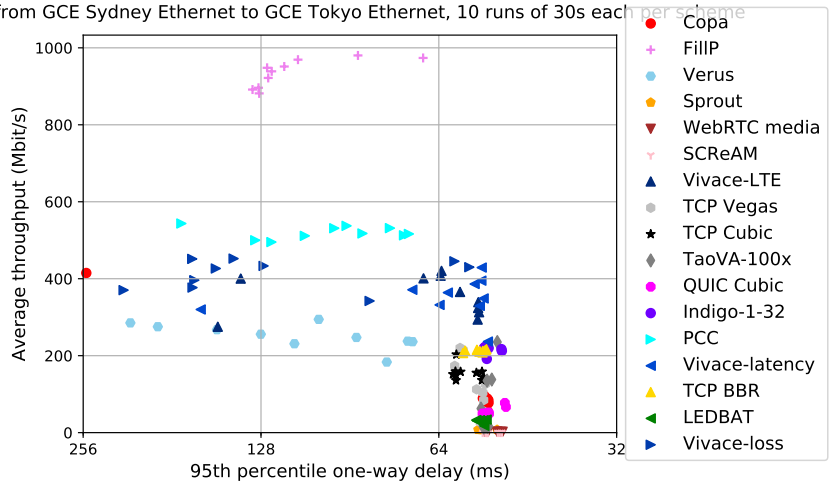
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ceec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	212.22	54.83	0.00
TCP Cubic	10	155.33	57.62	0.01
LEDBAT	10	29.95	54.26	0.01
PCC	10	519.69	103.29	0.32
QUIC Cubic	9	54.50	52.39	0.00
SCReAM	10	0.20	52.10	0.01
WebRTC media	10	2.33	52.12	0.00
Sprout	10	7.76	53.76	0.00
TaoVA-100x	10	67.92	53.04	0.00
TCP Vegas	10	116.67	55.47	0.00
Verus	10	251.42	120.87	0.26
Copa	10	113.98	73.13	3.80
FillP	10	935.30	114.61	3.71
Indigo-1-32	10	213.31	52.68	0.00
Vivace-latency	10	351.24	68.38	0.03
Vivace-loss	10	412.46	134.17	1.25
Vivace-LTE	10	354.08	76.32	0.15

Run 1: Statistics of TCP BBR

Start at: 2018-02-20 03:22:21

End at: 2018-02-20 03:22:51

Below is generated by plot.py at 2018-02-20 07:30:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.47 Mbit/s

95th percentile per-packet one-way delay: 53.977 ms

Loss rate: 0.01%

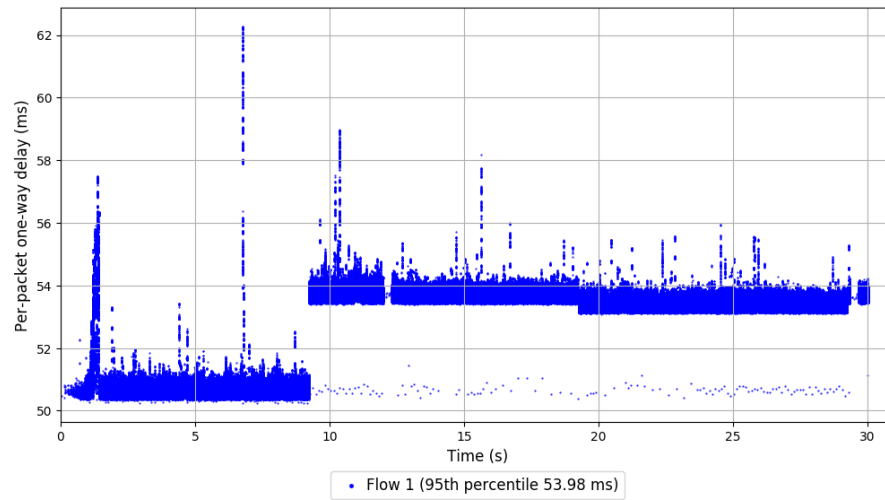
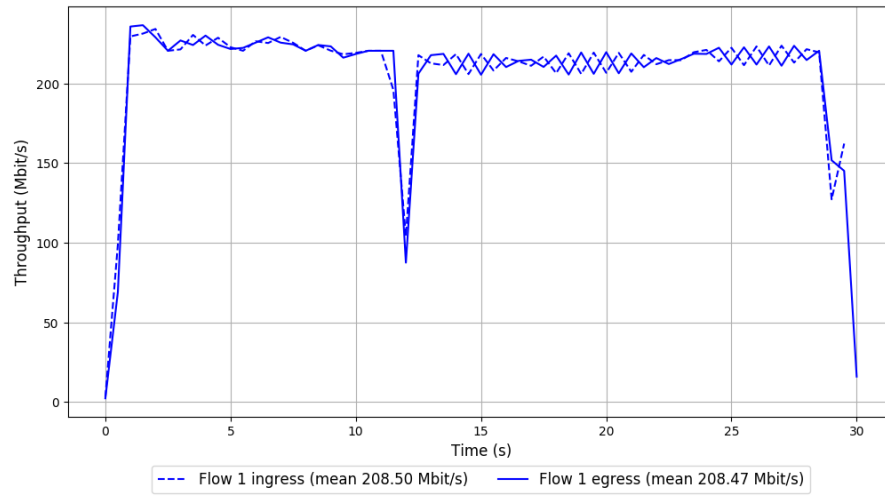
-- Flow 1:

Average throughput: 208.47 Mbit/s

95th percentile per-packet one-way delay: 53.977 ms

Loss rate: 0.01%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-20 03:36:49

End at: 2018-02-20 03:37:19

Below is generated by plot.py at 2018-02-20 07:30:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.91 Mbit/s

95th percentile per-packet one-way delay: 53.561 ms

Loss rate: 0.00%

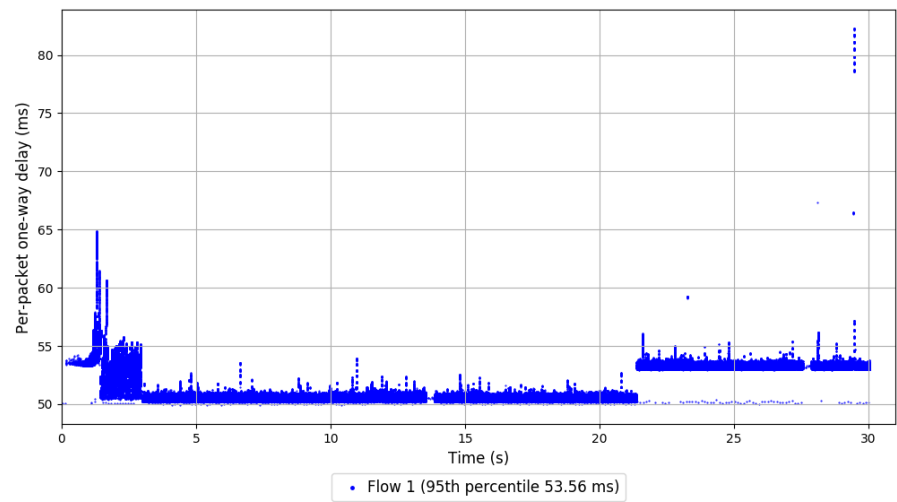
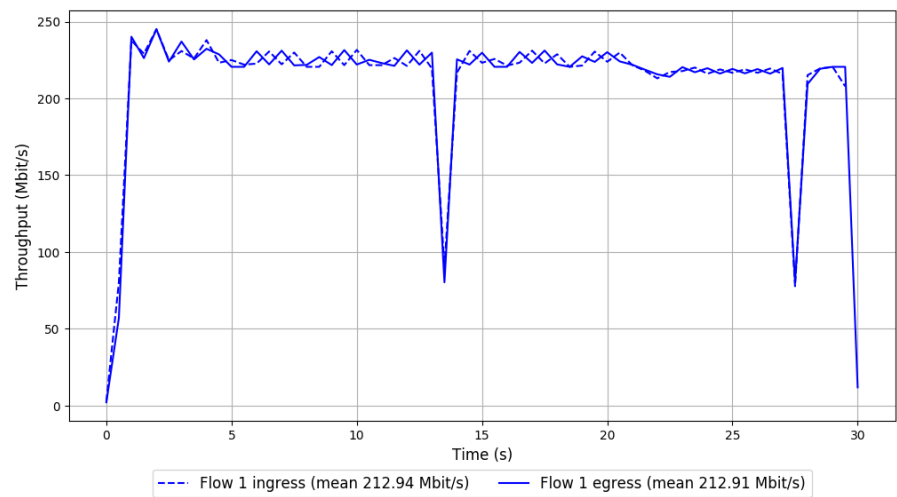
-- Flow 1:

Average throughput: 212.91 Mbit/s

95th percentile per-packet one-way delay: 53.561 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-20 03:51:38

End at: 2018-02-20 03:52:08

Below is generated by plot.py at 2018-02-20 07:30:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.88 Mbit/s

95th percentile per-packet one-way delay: 54.541 ms

Loss rate: 0.00%

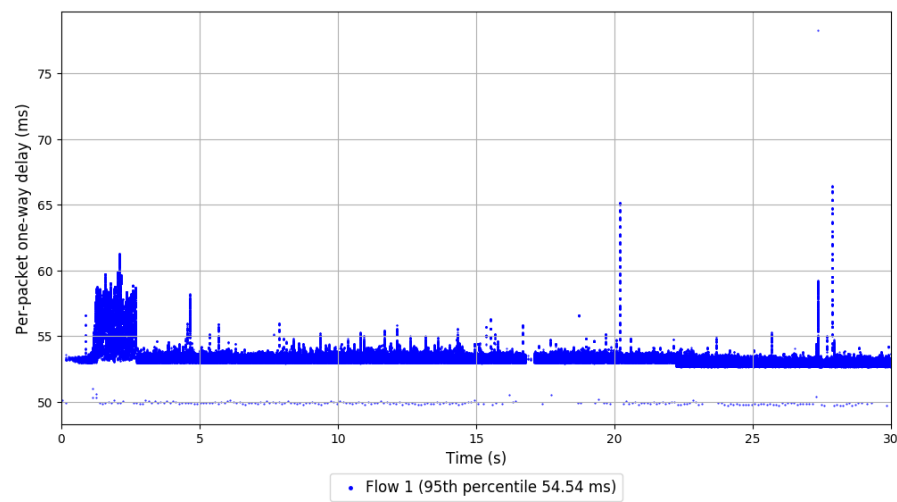
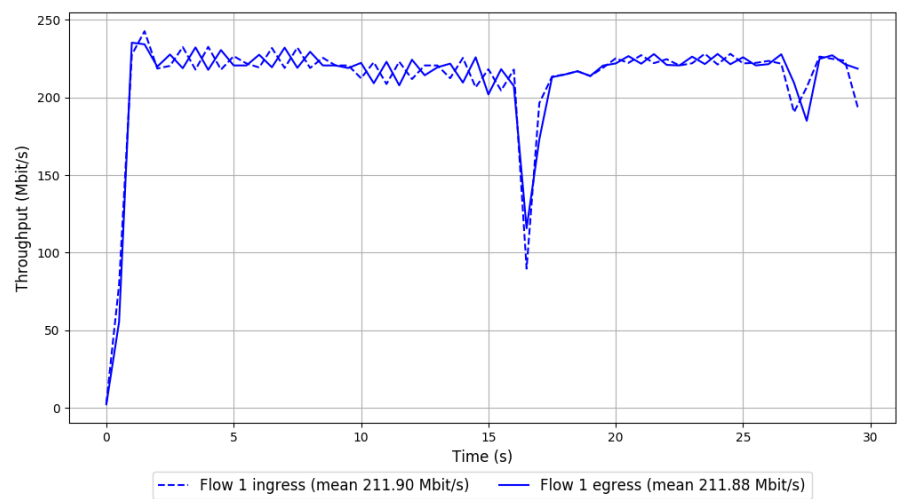
-- Flow 1:

Average throughput: 211.88 Mbit/s

95th percentile per-packet one-way delay: 54.541 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-20 04:06:05

End at: 2018-02-20 04:06:35

Below is generated by plot.py at 2018-02-20 07:30:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.42 Mbit/s

95th percentile per-packet one-way delay: 55.178 ms

Loss rate: 0.01%

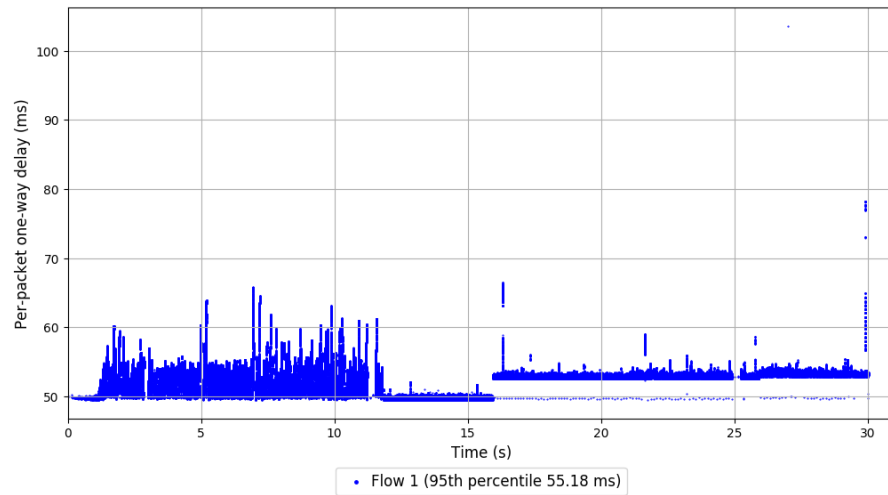
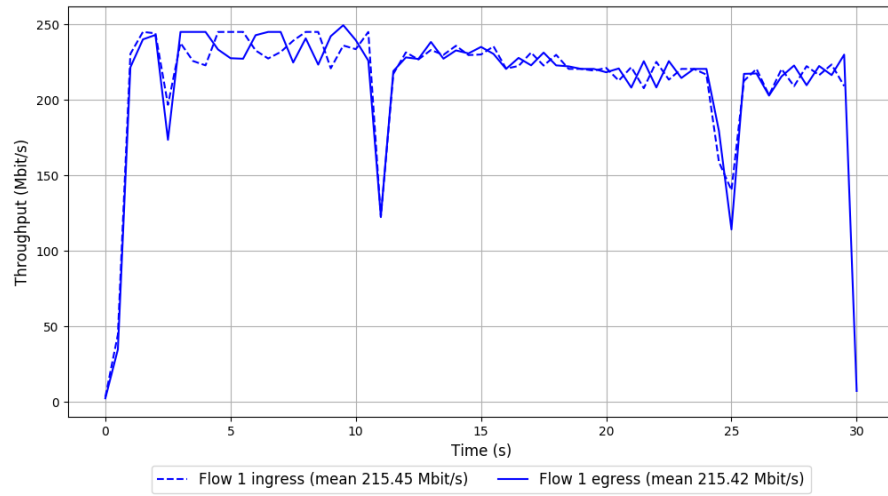
-- Flow 1:

Average throughput: 215.42 Mbit/s

95th percentile per-packet one-way delay: 55.178 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-20 04:20:57

End at: 2018-02-20 04:21:27

Below is generated by plot.py at 2018-02-20 07:30:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.15 Mbit/s

95th percentile per-packet one-way delay: 54.620 ms

Loss rate: 0.01%

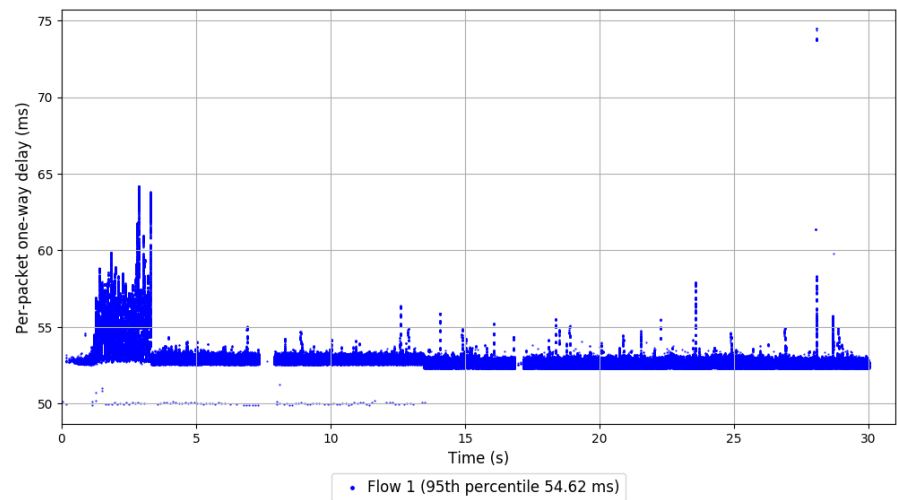
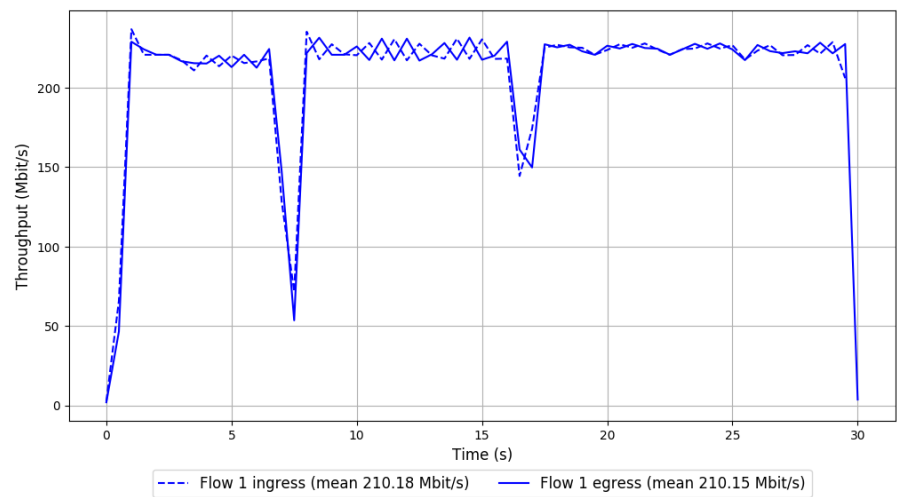
-- Flow 1:

Average throughput: 210.15 Mbit/s

95th percentile per-packet one-way delay: 54.620 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-20 04:35:15

End at: 2018-02-20 04:35:45

Below is generated by plot.py at 2018-02-20 07:30:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.85 Mbit/s

95th percentile per-packet one-way delay: 53.166 ms

Loss rate: 0.00%

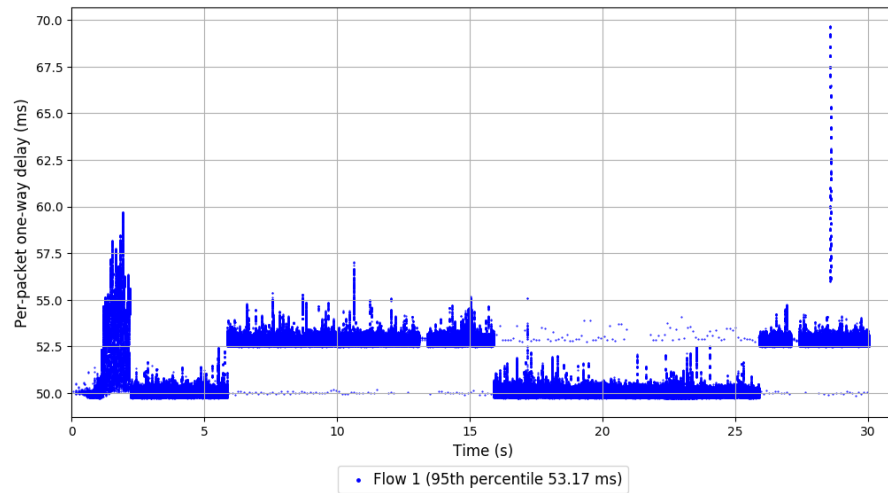
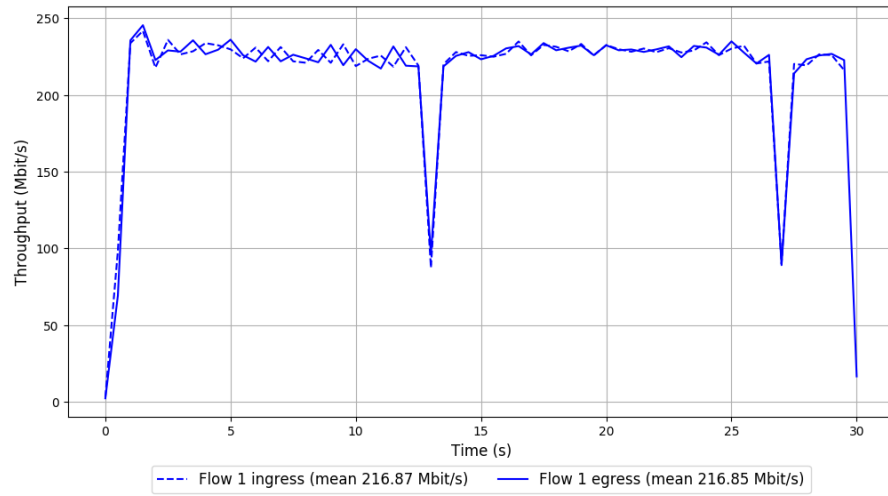
-- Flow 1:

Average throughput: 216.85 Mbit/s

95th percentile per-packet one-way delay: 53.166 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-20 04:49:44

End at: 2018-02-20 04:50:14

Below is generated by plot.py at 2018-02-20 07:30:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.89 Mbit/s

95th percentile per-packet one-way delay: 58.240 ms

Loss rate: 0.00%

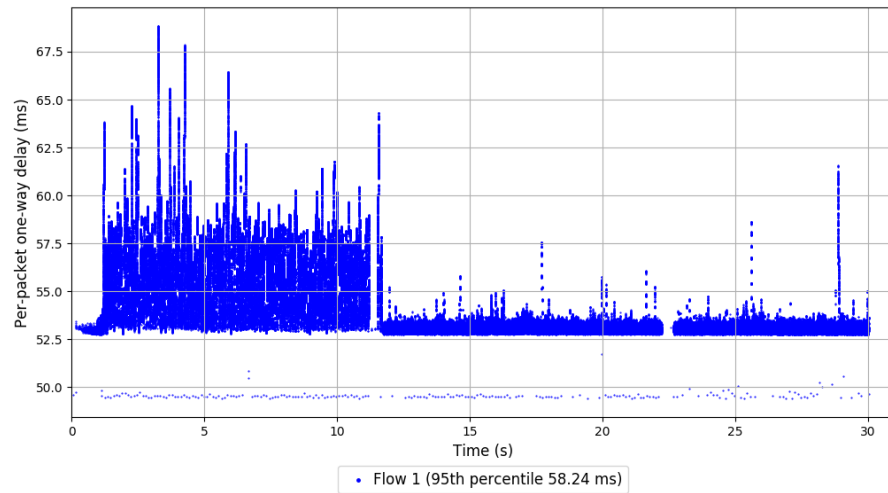
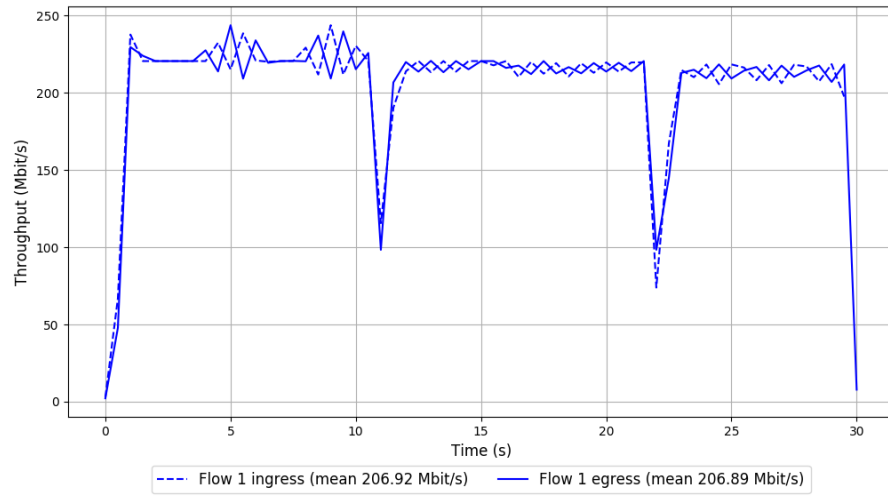
-- Flow 1:

Average throughput: 206.89 Mbit/s

95th percentile per-packet one-way delay: 58.240 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-20 05:04:04

End at: 2018-02-20 05:04:34

Below is generated by plot.py at 2018-02-20 07:30:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.64 Mbit/s

95th percentile per-packet one-way delay: 53.363 ms

Loss rate: 0.00%

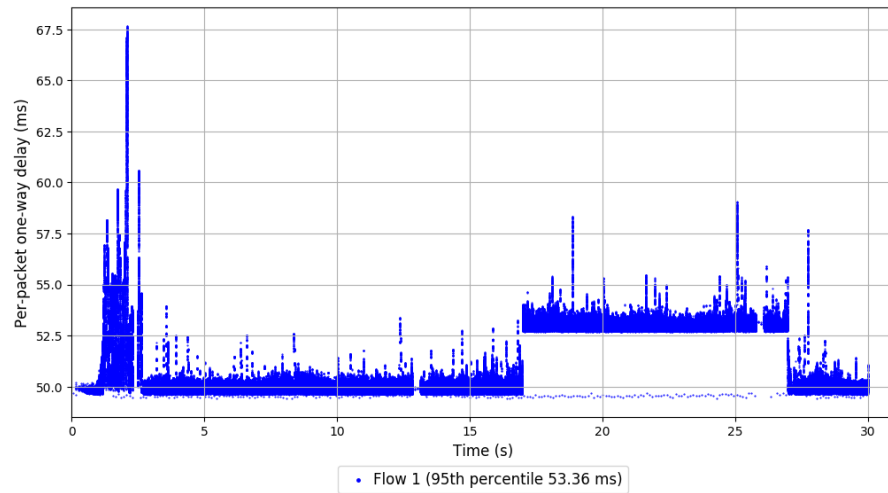
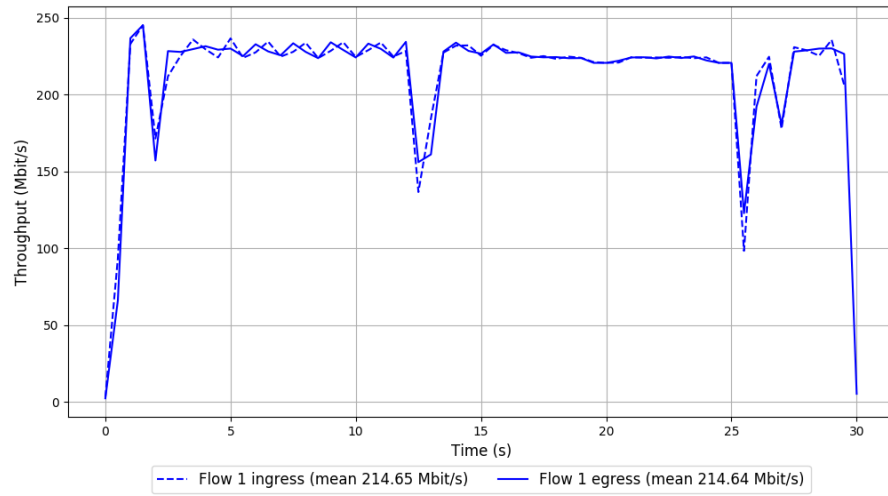
-- Flow 1:

Average throughput: 214.64 Mbit/s

95th percentile per-packet one-way delay: 53.363 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-20 05:18:34

End at: 2018-02-20 05:19:04

Below is generated by plot.py at 2018-02-20 07:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.17 Mbit/s

95th percentile per-packet one-way delay: 53.929 ms

Loss rate: 0.01%

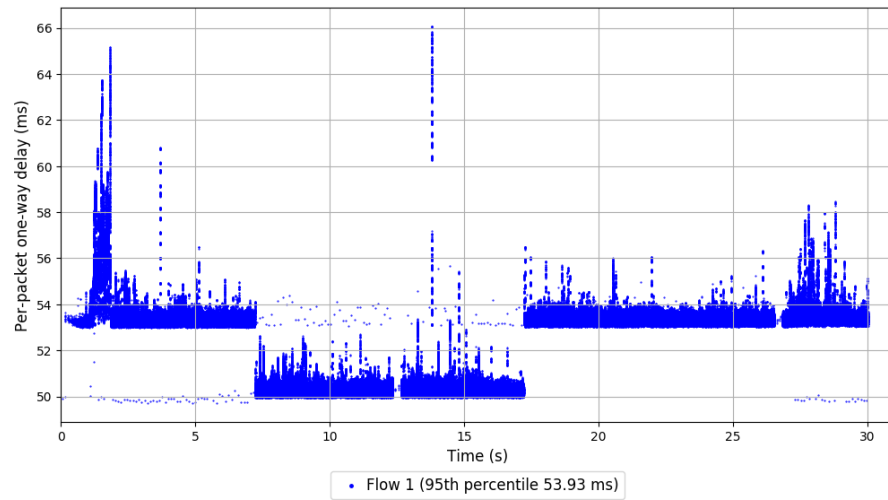
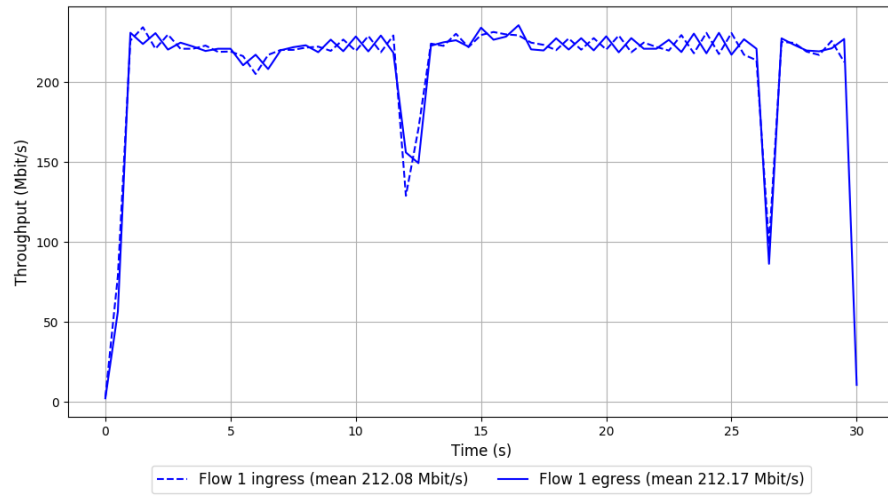
-- Flow 1:

Average throughput: 212.17 Mbit/s

95th percentile per-packet one-way delay: 53.929 ms

Loss rate: 0.01%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-20 05:32:56

End at: 2018-02-20 05:33:26

Below is generated by plot.py at 2018-02-20 07:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.82 Mbit/s

95th percentile per-packet one-way delay: 57.750 ms

Loss rate: 0.00%

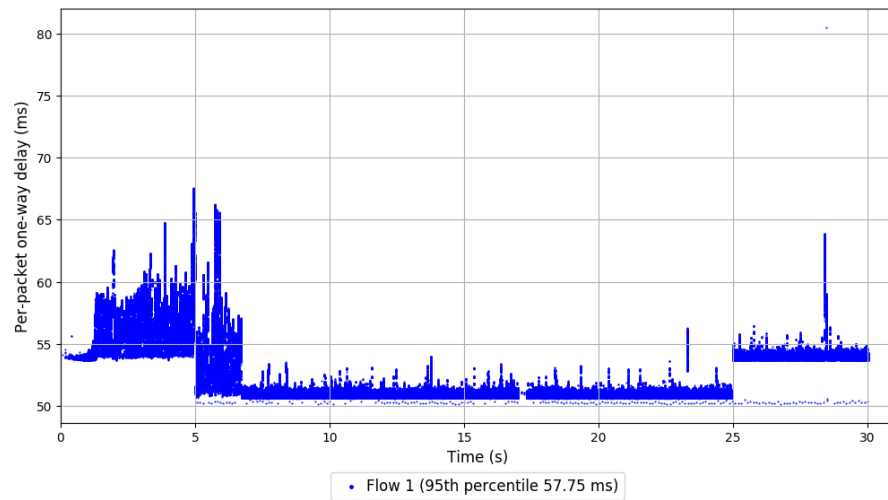
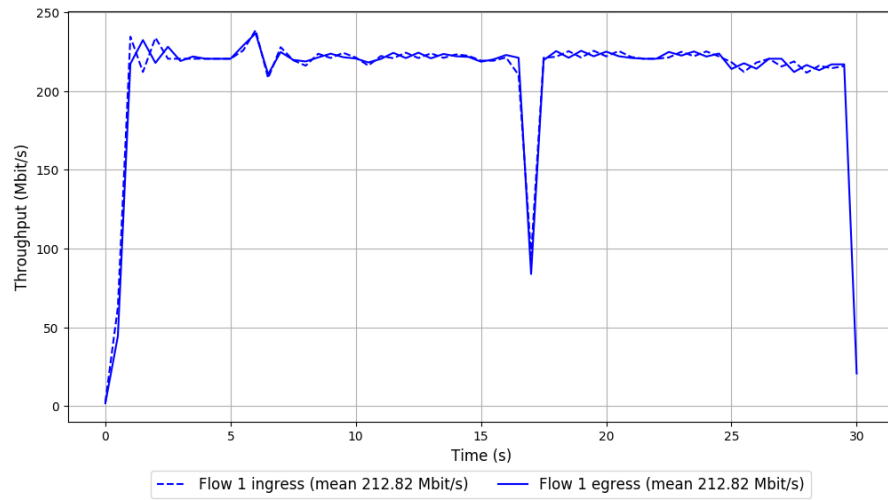
-- Flow 1:

Average throughput: 212.82 Mbit/s

95th percentile per-packet one-way delay: 57.750 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-20 03:27:59

End at: 2018-02-20 03:28:29

Below is generated by plot.py at 2018-02-20 07:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.10 Mbit/s

95th percentile per-packet one-way delay: 59.861 ms

Loss rate: 0.00%

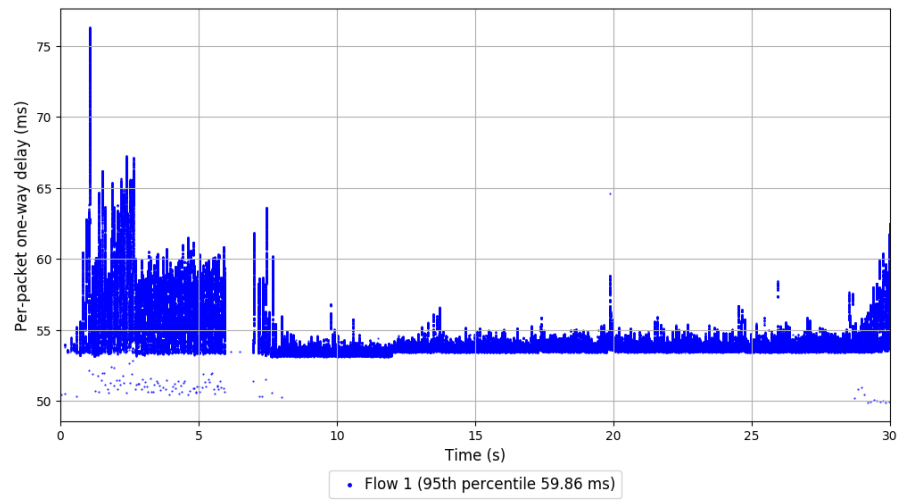
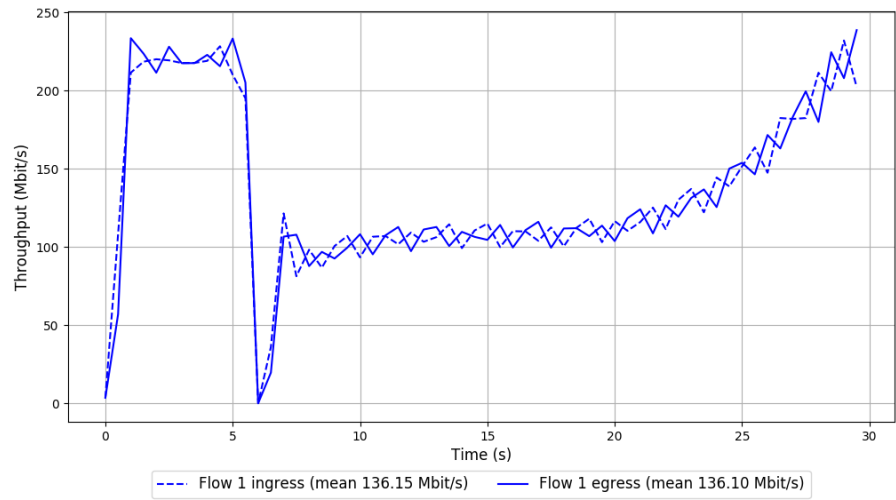
-- Flow 1:

Average throughput: 136.10 Mbit/s

95th percentile per-packet one-way delay: 59.861 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-20 03:42:46

End at: 2018-02-20 03:43:16

Below is generated by plot.py at 2018-02-20 07:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.05 Mbit/s

95th percentile per-packet one-way delay: 59.762 ms

Loss rate: 0.00%

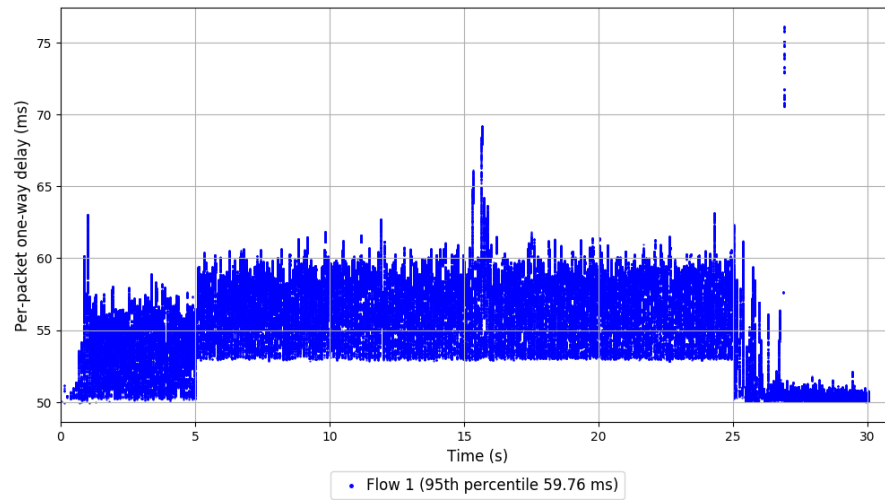
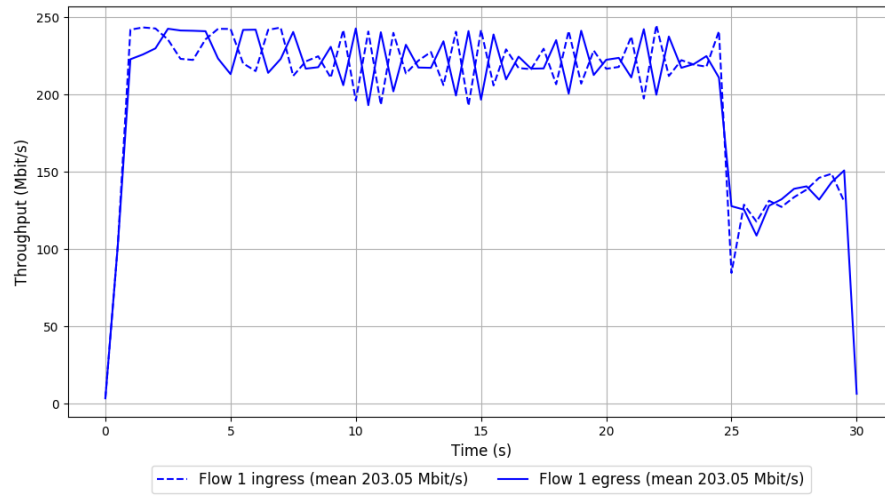
-- Flow 1:

Average throughput: 203.05 Mbit/s

95th percentile per-packet one-way delay: 59.762 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-20 03:57:16

End at: 2018-02-20 03:57:46

Below is generated by plot.py at 2018-02-20 07:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.80 Mbit/s

95th percentile per-packet one-way delay: 59.984 ms

Loss rate: 0.00%

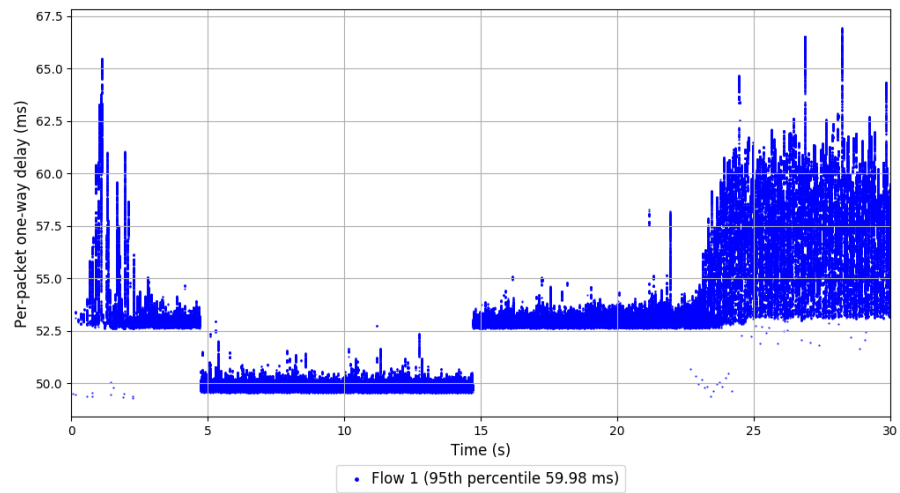
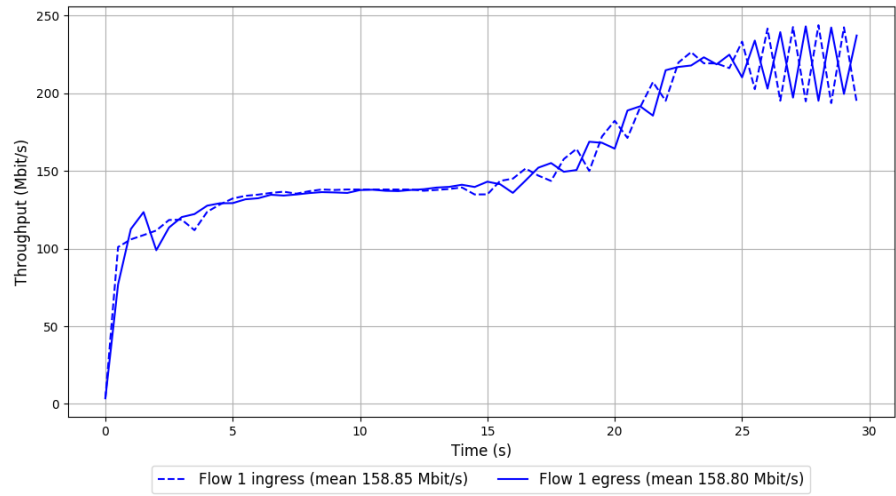
-- Flow 1:

Average throughput: 158.80 Mbit/s

95th percentile per-packet one-way delay: 59.984 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-20 04:11:38

End at: 2018-02-20 04:12:08

Below is generated by plot.py at 2018-02-20 07:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.64 Mbit/s

95th percentile per-packet one-way delay: 53.822 ms

Loss rate: 0.00%

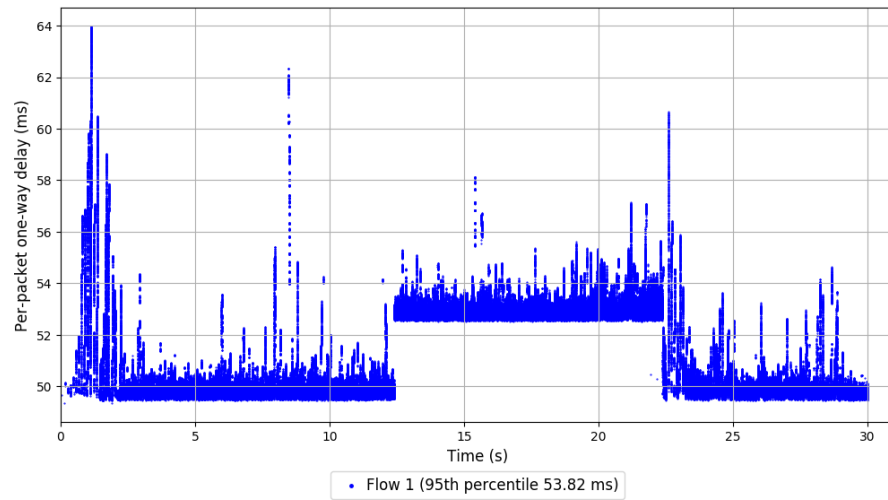
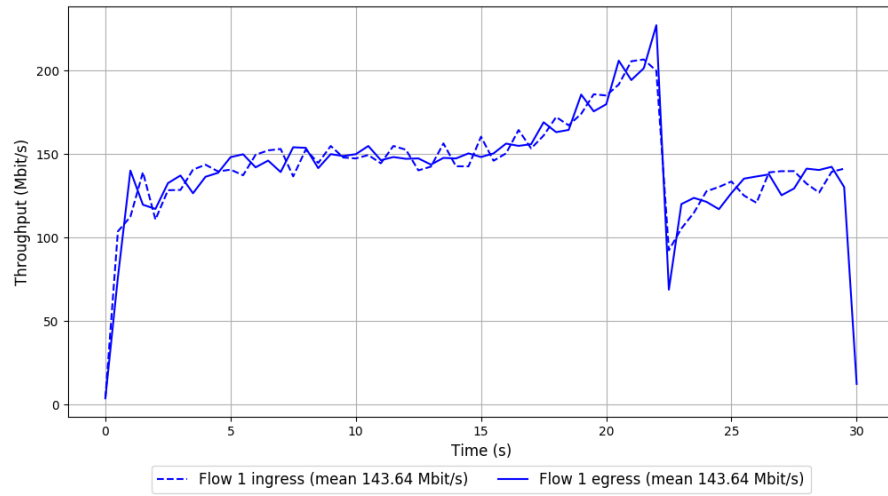
-- Flow 1:

Average throughput: 143.64 Mbit/s

95th percentile per-packet one-way delay: 53.822 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-20 04:26:31

End at: 2018-02-20 04:27:01

Below is generated by plot.py at 2018-02-20 07:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.86 Mbit/s

95th percentile per-packet one-way delay: 60.559 ms

Loss rate: 0.08%

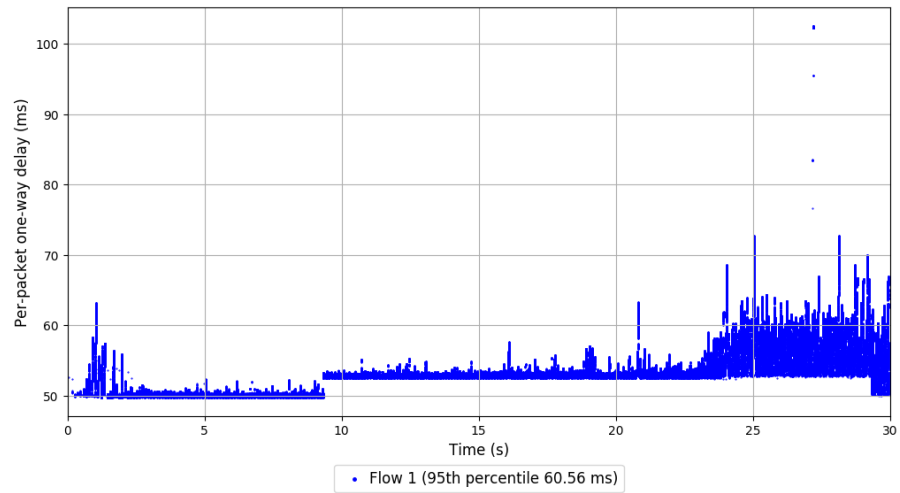
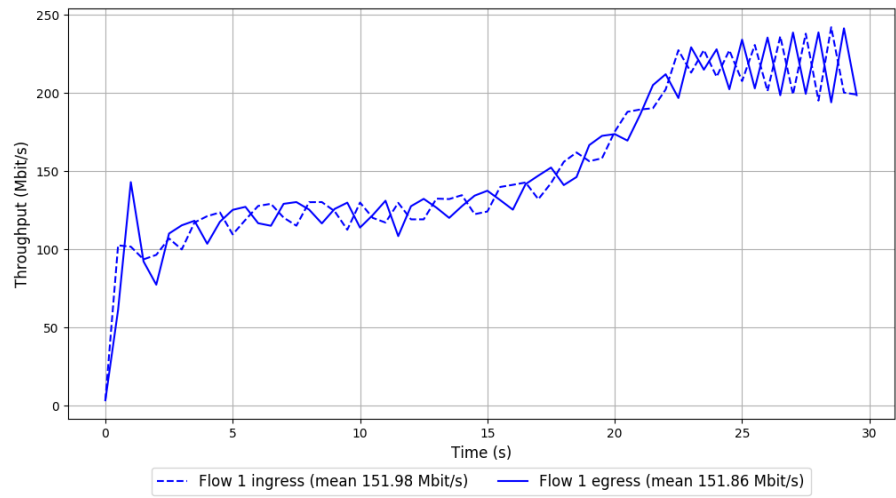
-- Flow 1:

Average throughput: 151.86 Mbit/s

95th percentile per-packet one-way delay: 60.559 ms

Loss rate: 0.08%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-20 04:40:44

End at: 2018-02-20 04:41:14

Below is generated by plot.py at 2018-02-20 07:33:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.44 Mbit/s

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

Loss rate: 0.00%

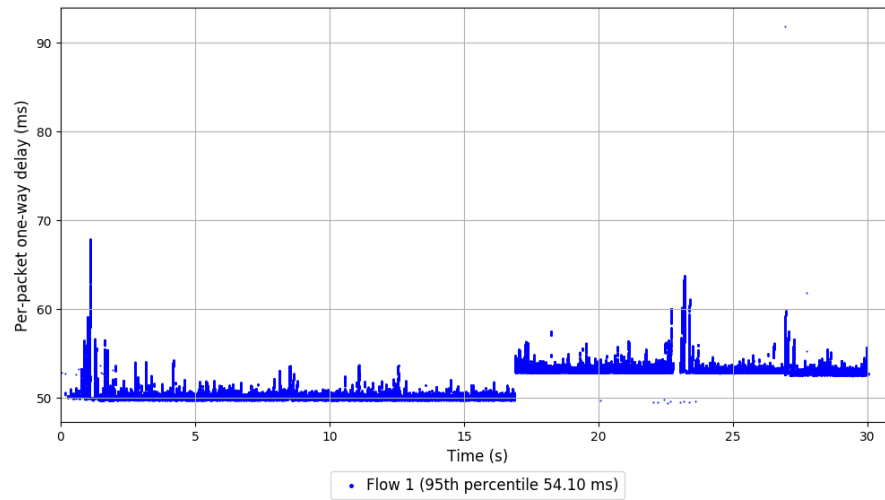
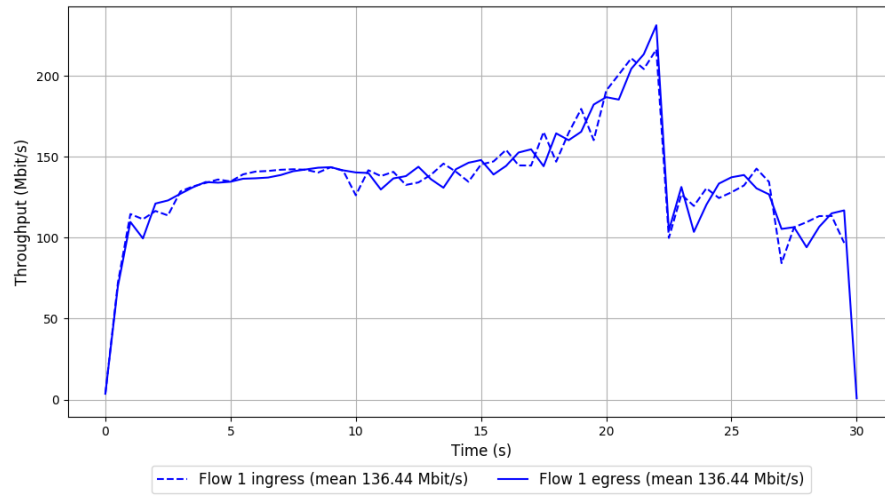
-- Flow 1:

Average throughput: 136.44 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-20 04:55:12

End at: 2018-02-20 04:55:42

Below is generated by plot.py at 2018-02-20 07:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.49 Mbit/s

95th percentile per-packet one-way delay: 54.088 ms

Loss rate: 0.00%

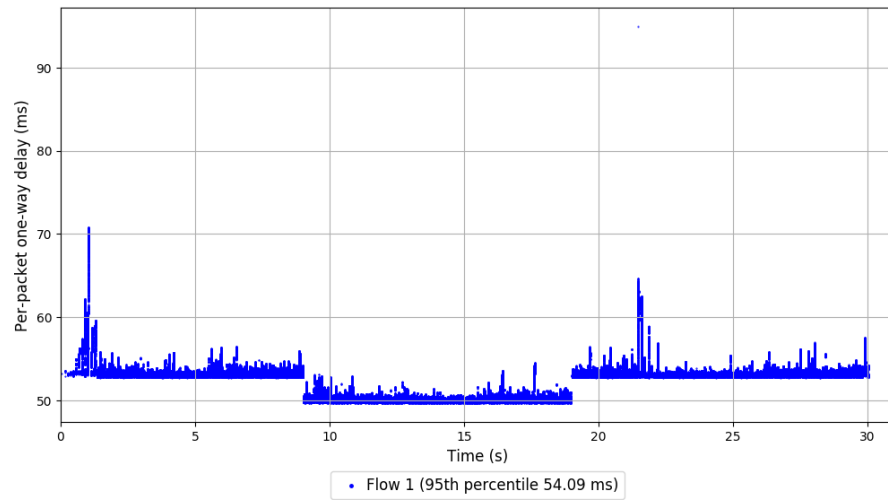
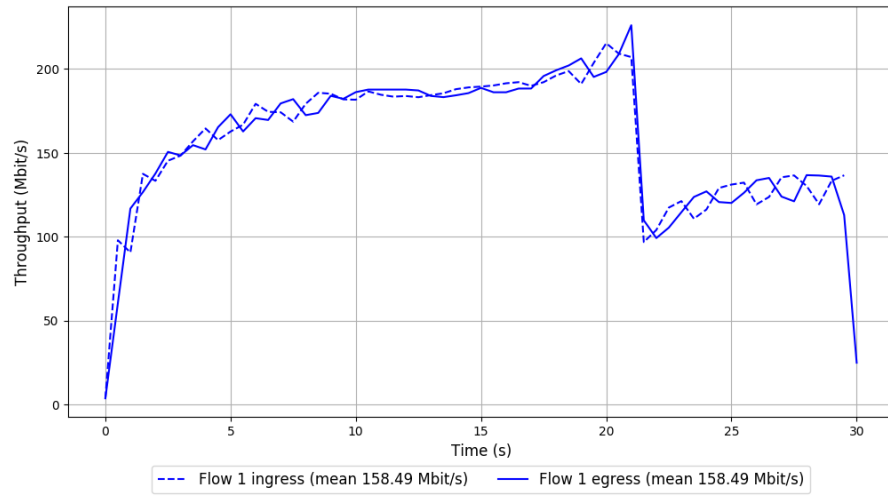
-- Flow 1:

Average throughput: 158.49 Mbit/s

95th percentile per-packet one-way delay: 54.088 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-20 05:09:34

End at: 2018-02-20 05:10:04

Below is generated by plot.py at 2018-02-20 07:35:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.27 Mbit/s

95th percentile per-packet one-way delay: 59.921 ms

Loss rate: 0.03%

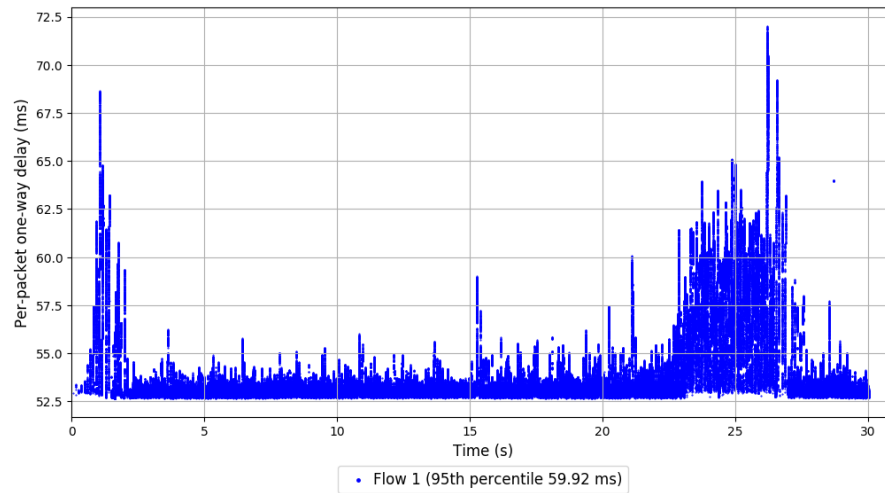
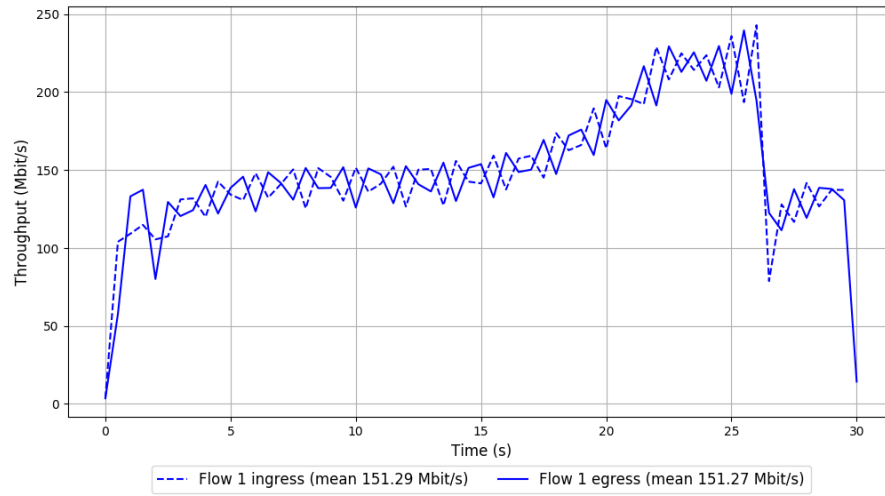
-- Flow 1:

Average throughput: 151.27 Mbit/s

95th percentile per-packet one-way delay: 59.921 ms

Loss rate: 0.03%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-20 05:24:08

End at: 2018-02-20 05:24:38

Below is generated by plot.py at 2018-02-20 07:35:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.48 Mbit/s

95th percentile per-packet one-way delay: 55.275 ms

Loss rate: 0.00%

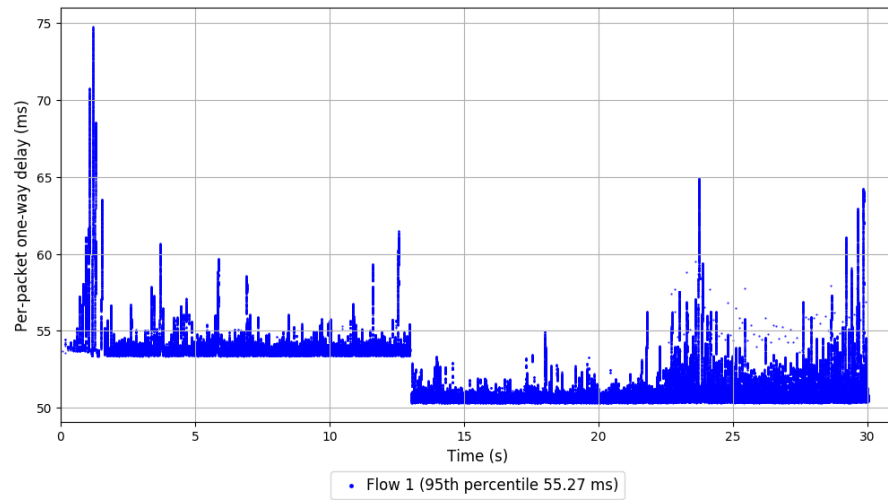
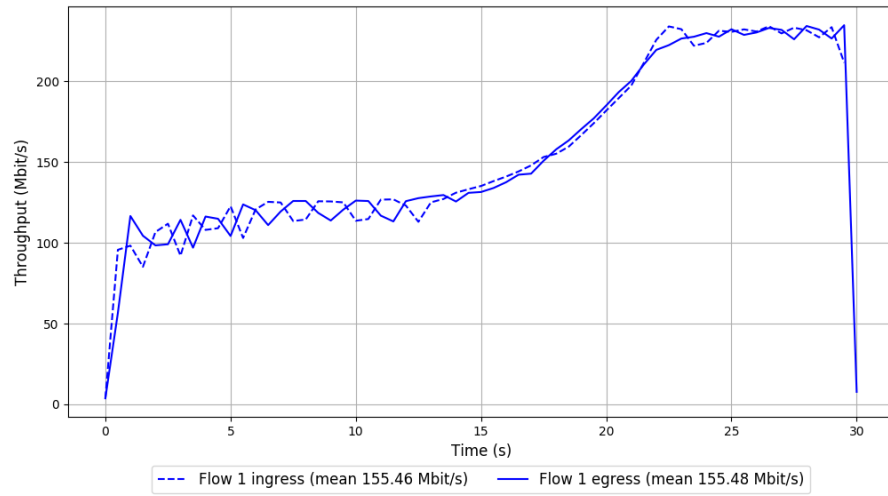
-- Flow 1:

Average throughput: 155.48 Mbit/s

95th percentile per-packet one-way delay: 55.275 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-20 05:38:32

End at: 2018-02-20 05:39:02

Below is generated by plot.py at 2018-02-20 07:35:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.21 Mbit/s

95th percentile per-packet one-way delay: 58.802 ms

Loss rate: 0.02%

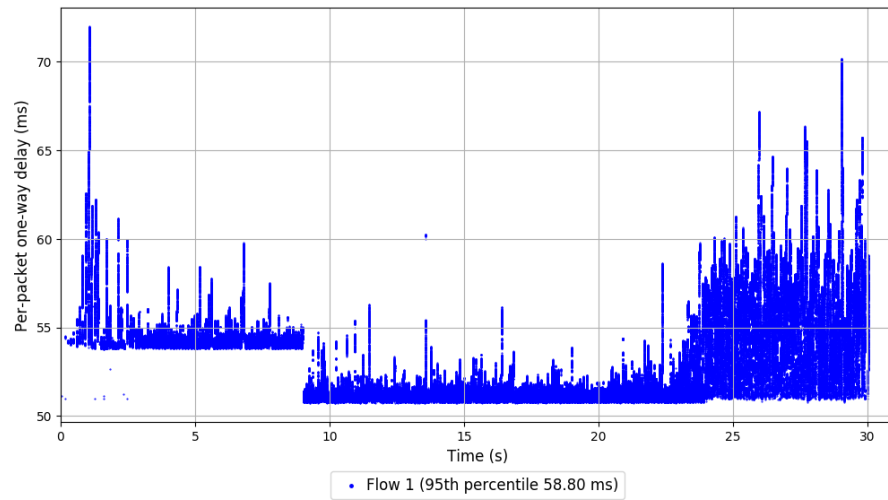
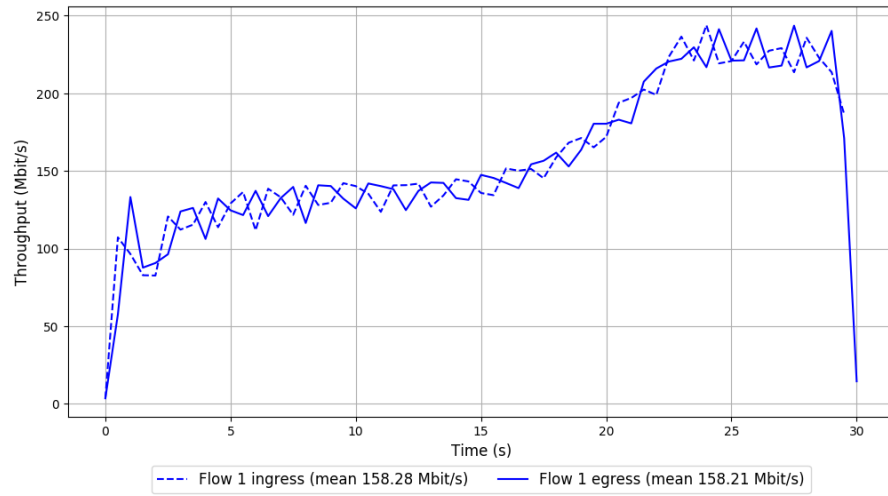
-- Flow 1:

Average throughput: 158.21 Mbit/s

95th percentile per-packet one-way delay: 58.802 ms

Loss rate: 0.02%

Run 10: Report of TCP Cubic — Data Link

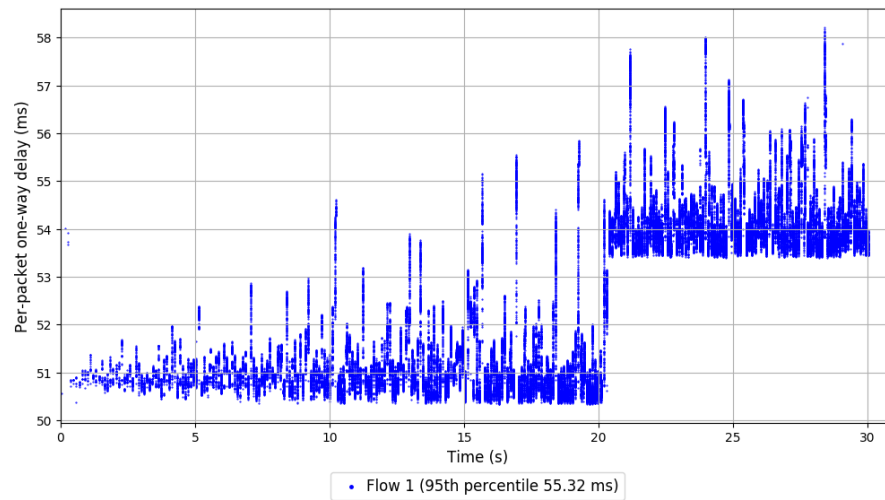
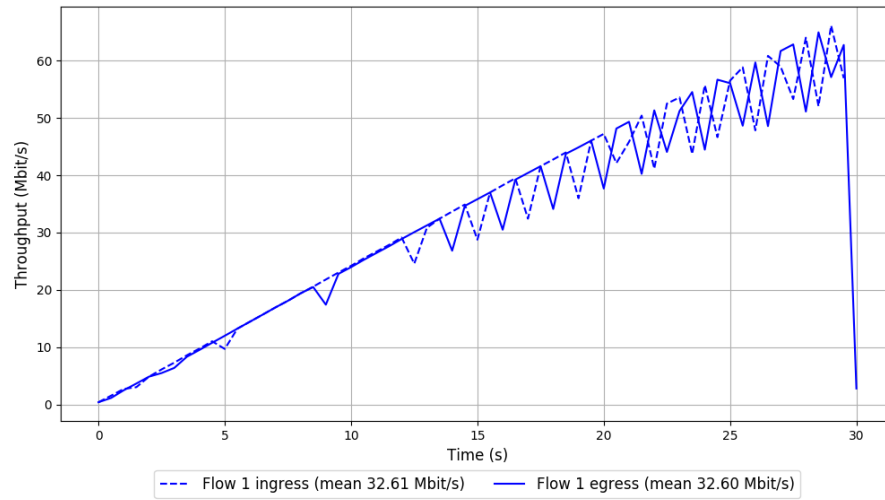


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-20 03:20:20
End at: 2018-02-20 03:20:50

# Below is generated by plot.py at 2018-02-20 07:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 55.322 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 32.60 Mbit/s
95th percentile per-packet one-way delay: 55.322 ms
Loss rate: 0.02%
```


Run 1: Report of LEDBAT — Data Link

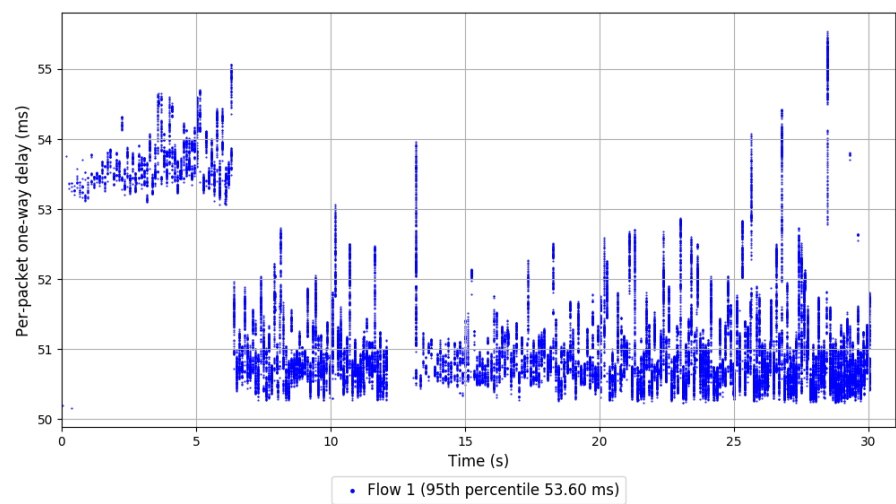
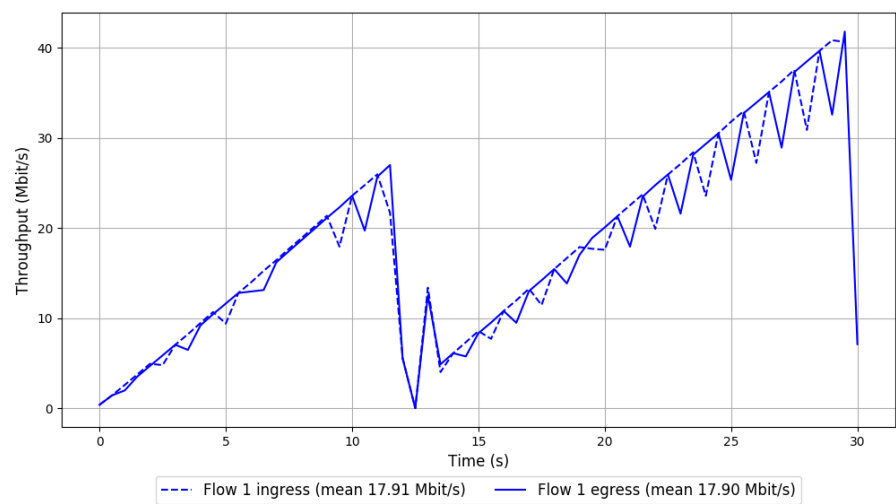


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-20 03:34:54
End at: 2018-02-20 03:35:24

# Below is generated by plot.py at 2018-02-20 07:35:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.90 Mbit/s
95th percentile per-packet one-way delay: 53.602 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 17.90 Mbit/s
95th percentile per-packet one-way delay: 53.602 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-20 03:49:40

End at: 2018-02-20 03:50:10

Below is generated by plot.py at 2018-02-20 07:35:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 54.222 ms

Loss rate: 0.00%

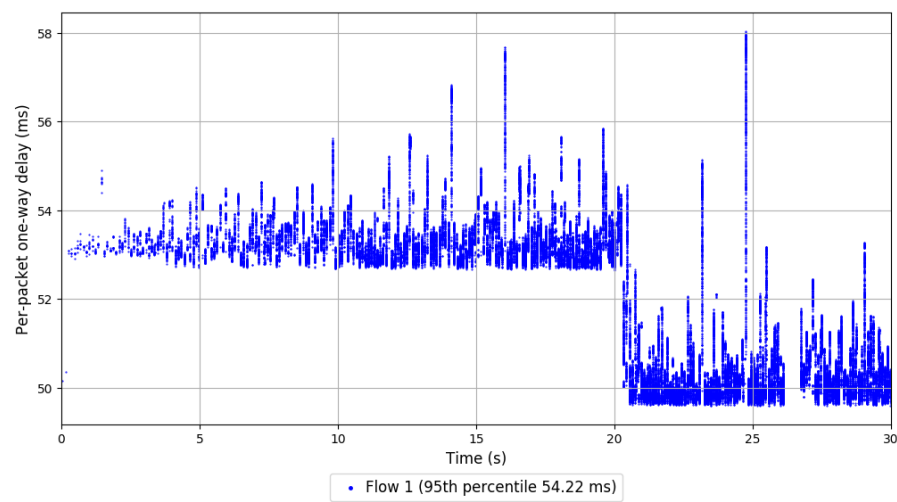
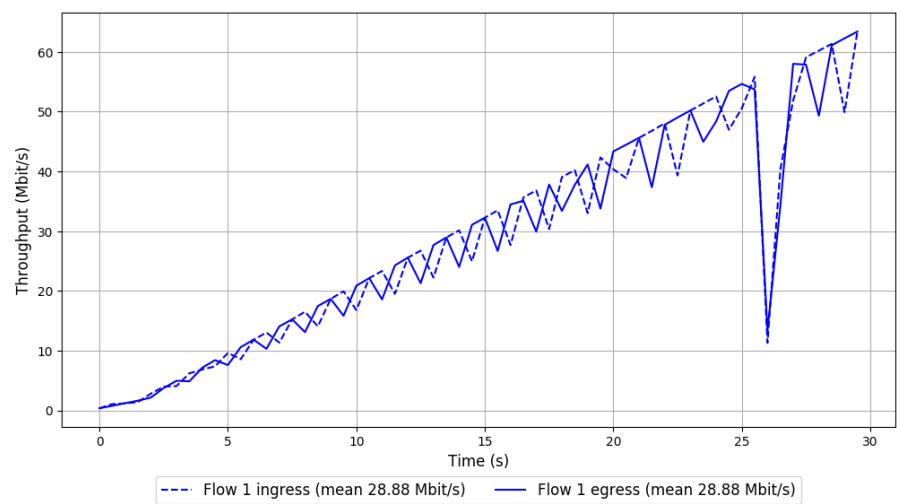
-- Flow 1:

Average throughput: 28.88 Mbit/s

95th percentile per-packet one-way delay: 54.222 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-20 04:04:10

End at: 2018-02-20 04:04:40

Below is generated by plot.py at 2018-02-20 07:35:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.00%

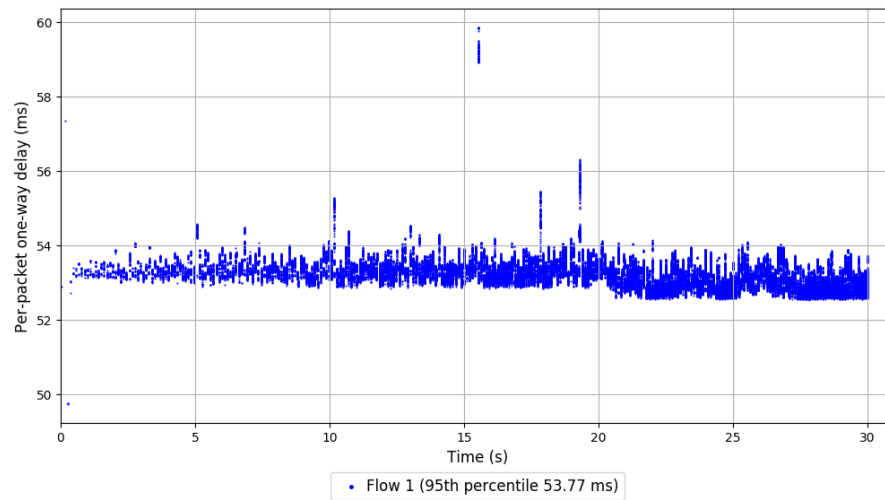
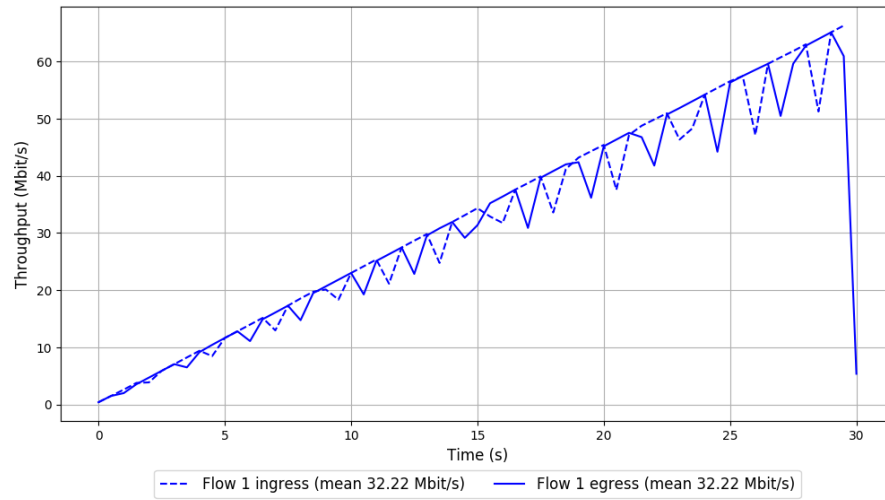
-- Flow 1:

Average throughput: 32.22 Mbit/s

95th percentile per-packet one-way delay: 53.775 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-20 04:18:44

End at: 2018-02-20 04:19:14

Below is generated by plot.py at 2018-02-20 07:35:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.86 Mbit/s

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

Loss rate: 0.00%

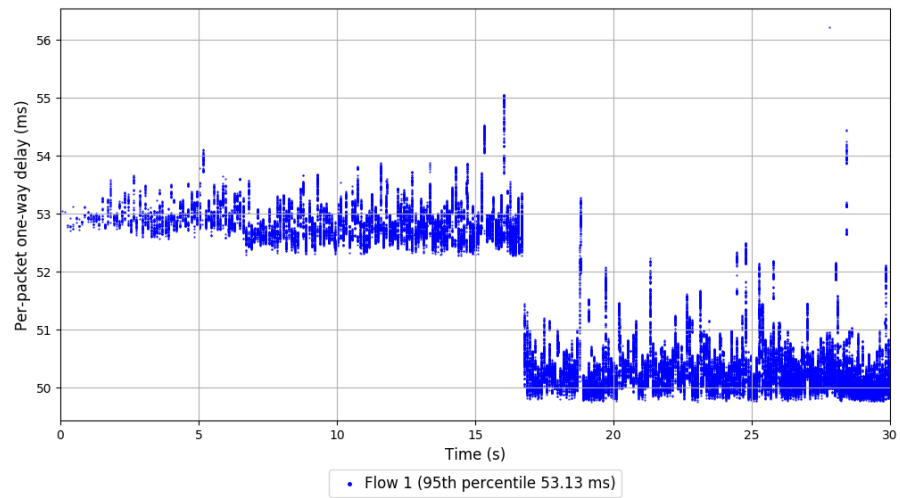
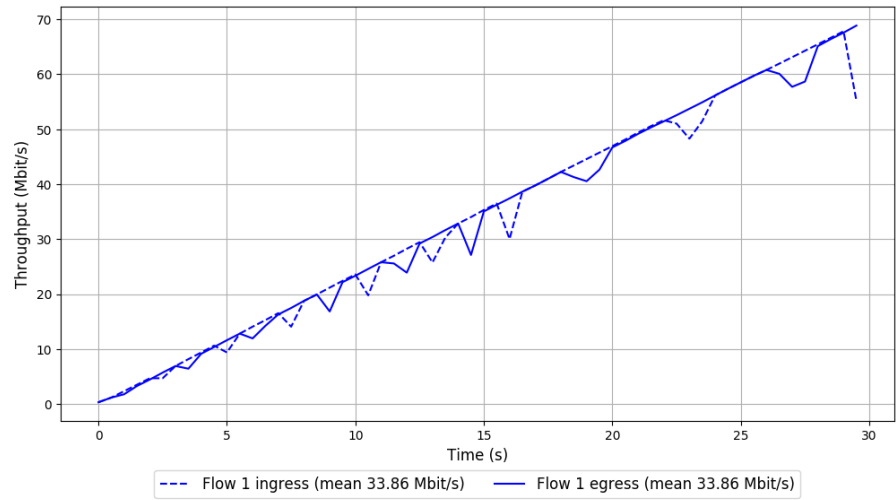
-- Flow 1:

Average throughput: 33.86 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-20 04:33:20

End at: 2018-02-20 04:33:50

Below is generated by plot.py at 2018-02-20 07:35:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 53.674 ms

Loss rate: 0.00%

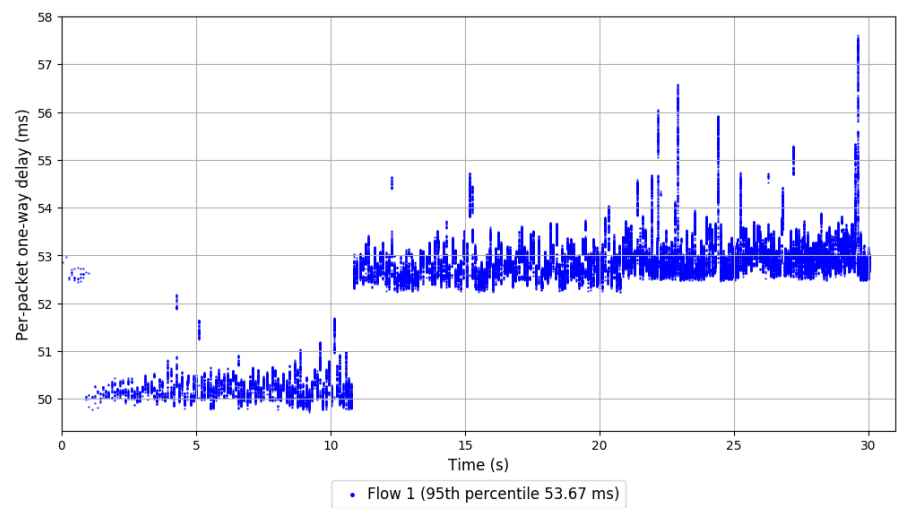
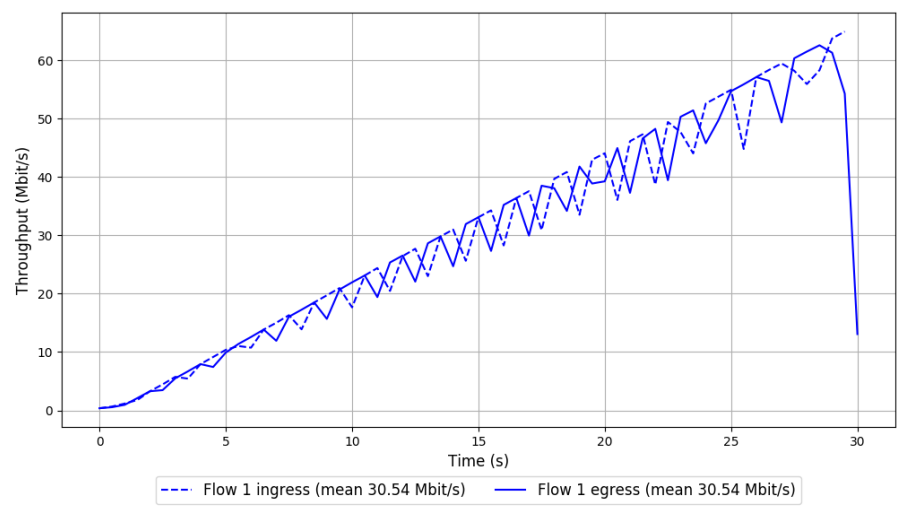
-- Flow 1:

Average throughput: 30.54 Mbit/s

95th percentile per-packet one-way delay: 53.674 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-20 04:47:39

End at: 2018-02-20 04:48:09

Below is generated by plot.py at 2018-02-20 07:35:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 54.483 ms

Loss rate: 0.00%

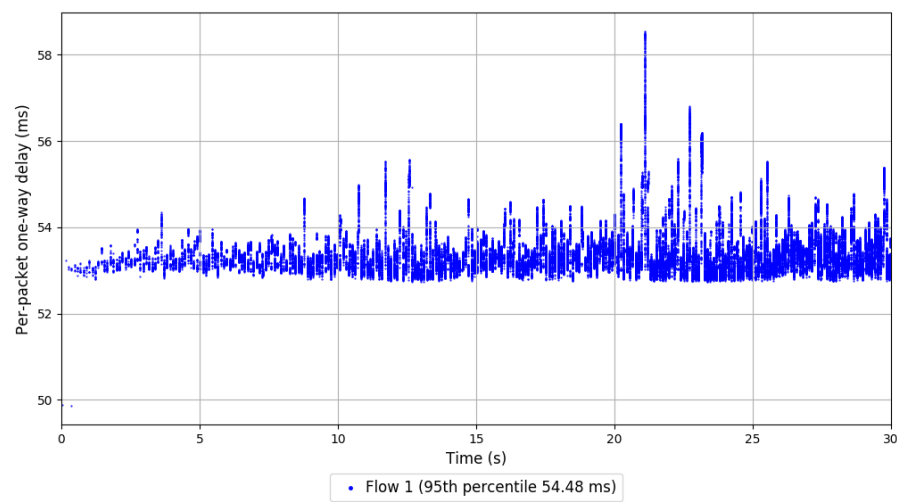
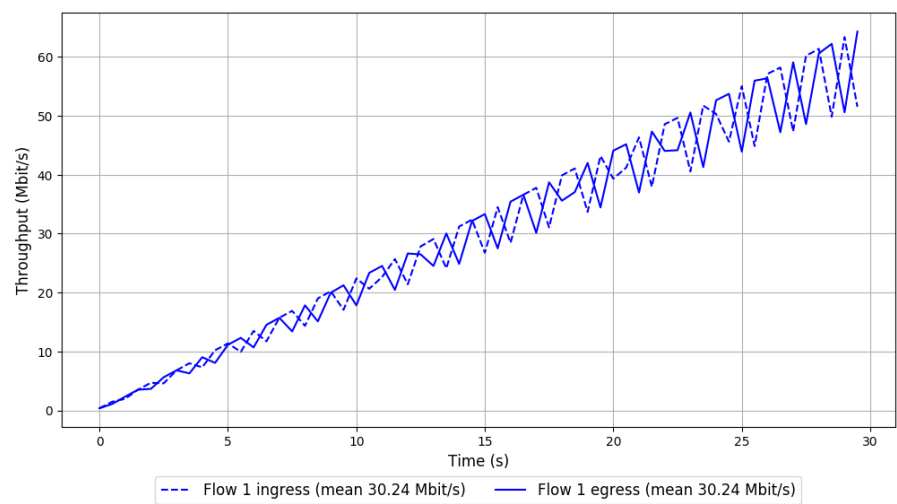
-- Flow 1:

Average throughput: 30.24 Mbit/s

95th percentile per-packet one-way delay: 54.483 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-20 05:01:59

End at: 2018-02-20 05:02:29

Below is generated by plot.py at 2018-02-20 07:35:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 54.707 ms

Loss rate: 0.08%

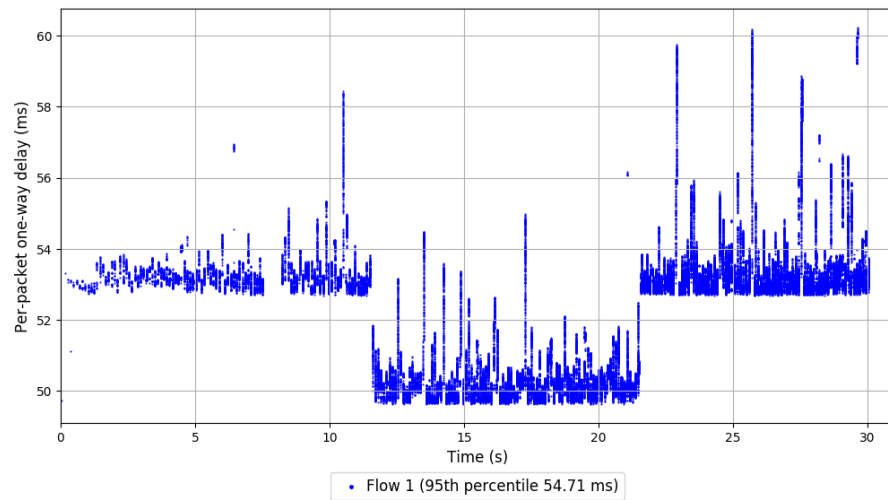
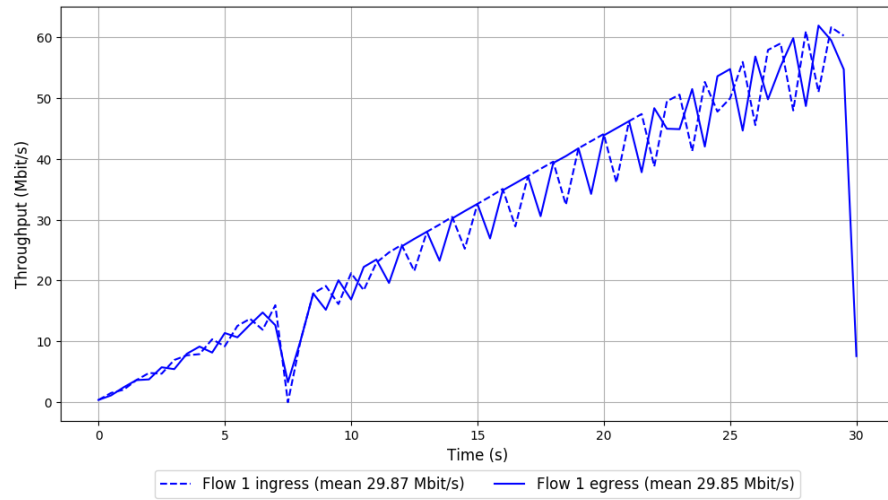
-- Flow 1:

Average throughput: 29.85 Mbit/s

95th percentile per-packet one-way delay: 54.707 ms

Loss rate: 0.08%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-20 05:16:39

End at: 2018-02-20 05:17:09

Below is generated by plot.py at 2018-02-20 07:35:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.98 Mbit/s

95th percentile per-packet one-way delay: 55.169 ms

Loss rate: 0.00%

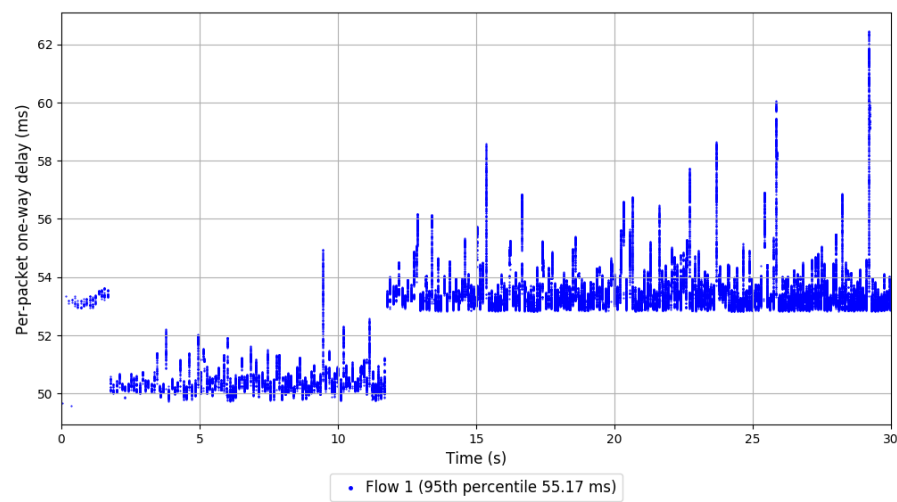
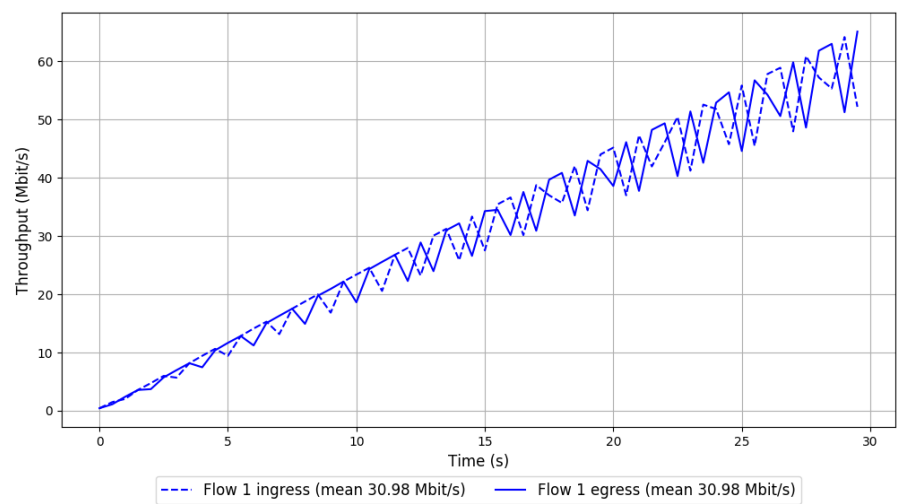
-- Flow 1:

Average throughput: 30.98 Mbit/s

95th percentile per-packet one-way delay: 55.169 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-20 05:31:01

End at: 2018-02-20 05:31:31

Below is generated by plot.py at 2018-02-20 07:35:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 54.524 ms

Loss rate: 0.00%

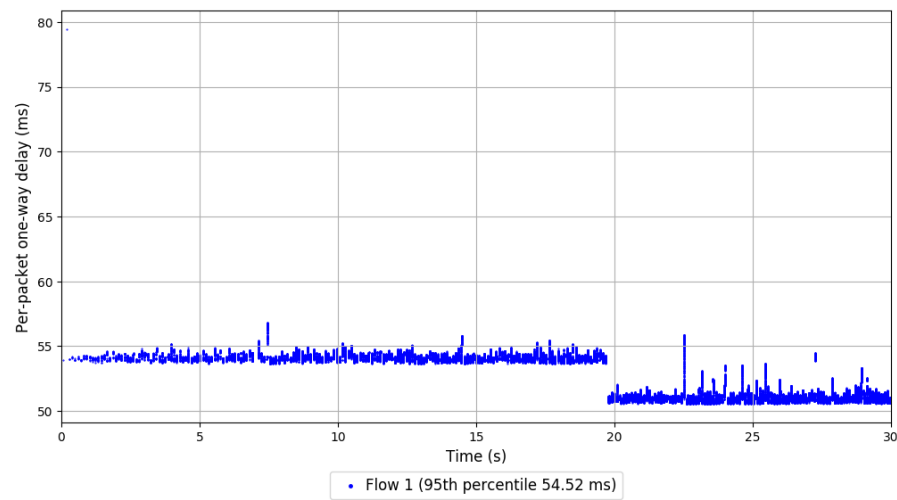
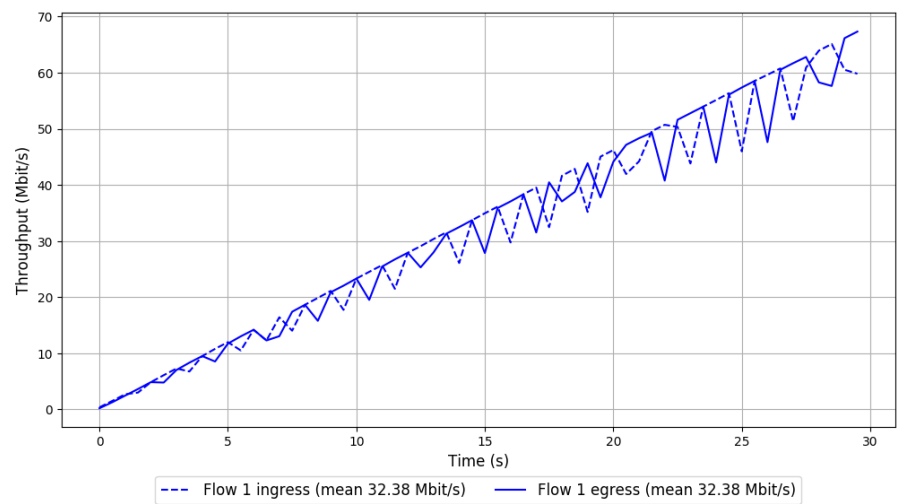
-- Flow 1:

Average throughput: 32.38 Mbit/s

95th percentile per-packet one-way delay: 54.524 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

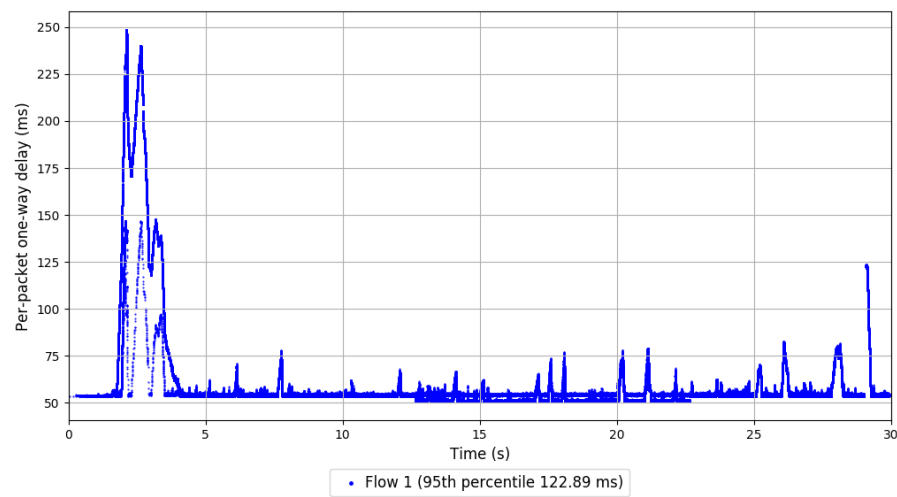
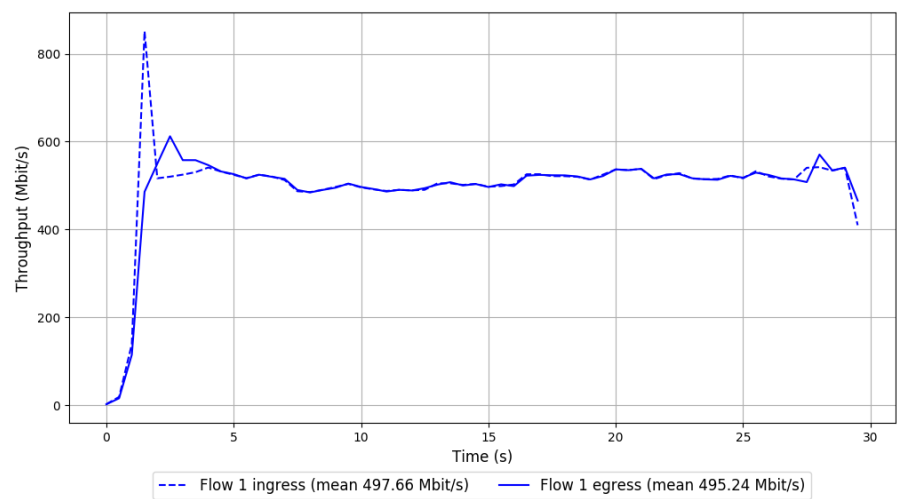


```
Run 1: Statistics of PCC

Start at: 2018-02-20 03:25:48
End at: 2018-02-20 03:26:18

# Below is generated by plot.py at 2018-02-20 07:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 495.24 Mbit/s
95th percentile per-packet one-way delay: 122.890 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 495.24 Mbit/s
95th percentile per-packet one-way delay: 122.890 ms
Loss rate: 0.49%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-20 03:40:34

End at: 2018-02-20 03:41:04

Below is generated by plot.py at 2018-02-20 07:44:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.75 Mbit/s

95th percentile per-packet one-way delay: 73.298 ms

Loss rate: 0.25%

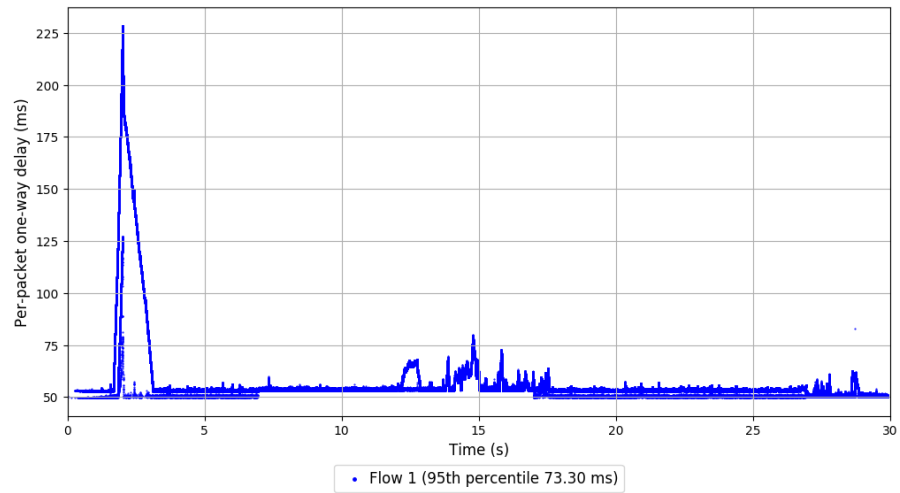
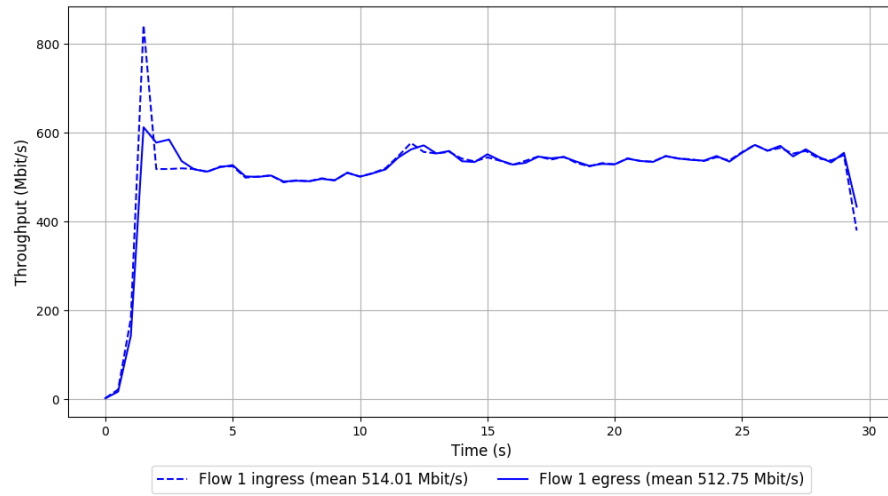
-- Flow 1:

Average throughput: 512.75 Mbit/s

95th percentile per-packet one-way delay: 73.298 ms

Loss rate: 0.25%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-20 03:55:03

End at: 2018-02-20 03:55:33

Below is generated by plot.py at 2018-02-20 07:44:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.62 Mbit/s

95th percentile per-packet one-way delay: 86.177 ms

Loss rate: 0.21%

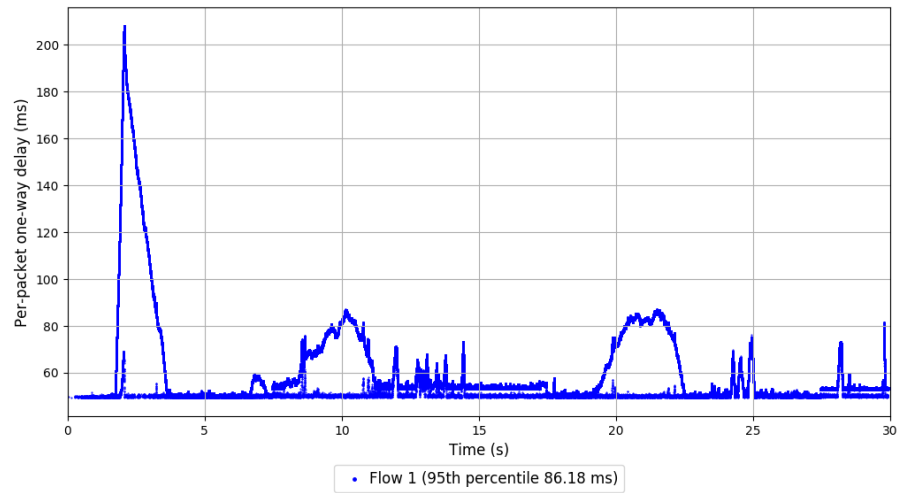
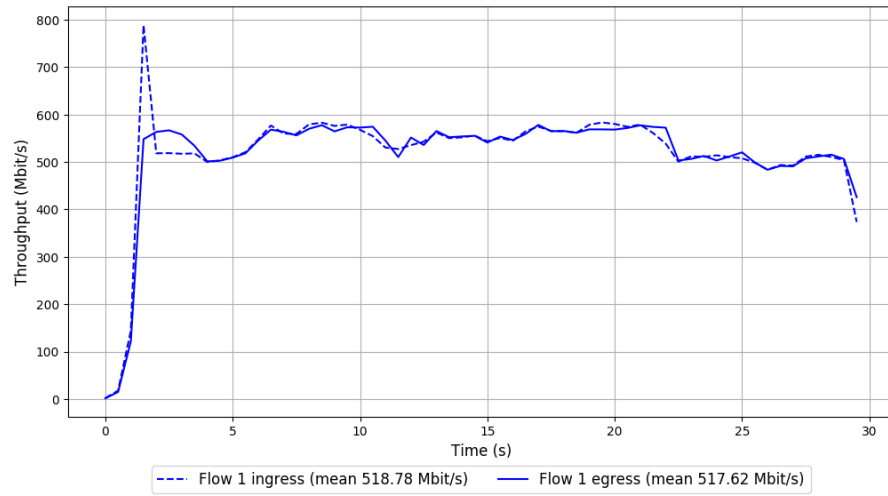
-- Flow 1:

Average throughput: 517.62 Mbit/s

95th percentile per-packet one-way delay: 86.177 ms

Loss rate: 0.21%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-20 04:09:26

End at: 2018-02-20 04:09:56

Below is generated by plot.py at 2018-02-20 07:44:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.43 Mbit/s

95th percentile per-packet one-way delay: 91.686 ms

Loss rate: 0.30%

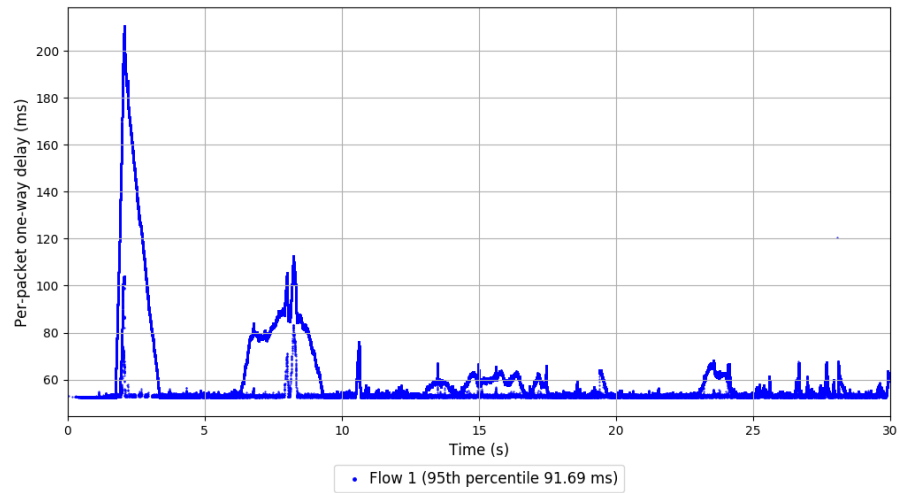
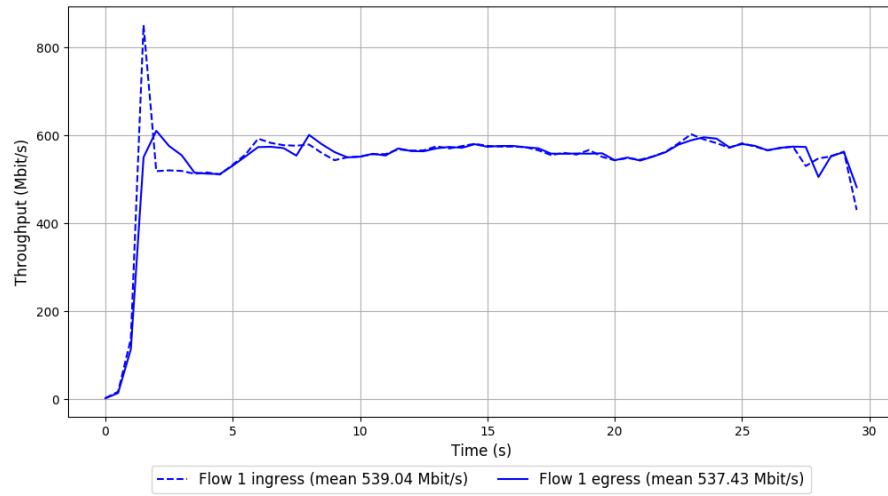
-- Flow 1:

Average throughput: 537.43 Mbit/s

95th percentile per-packet one-way delay: 91.686 ms

Loss rate: 0.30%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-20 04:24:22

End at: 2018-02-20 04:24:52

Below is generated by plot.py at 2018-02-20 07:44:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.52 Mbit/s

95th percentile per-packet one-way delay: 77.433 ms

Loss rate: 0.30%

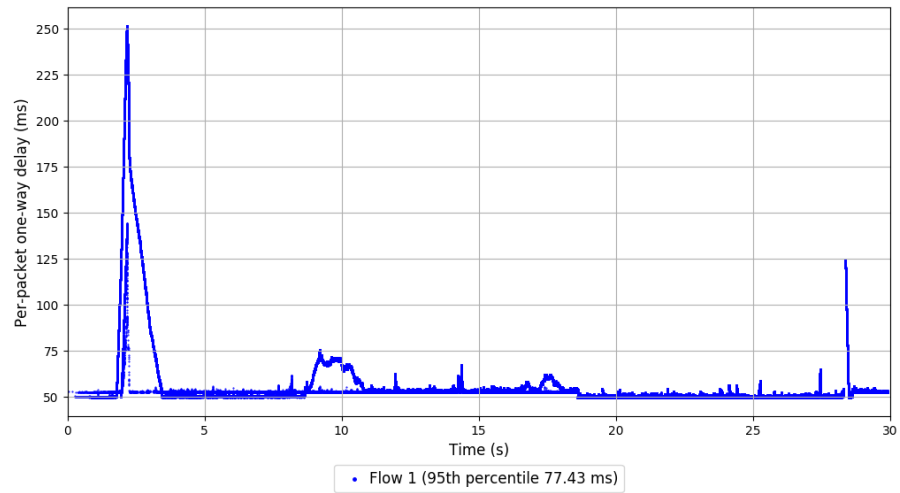
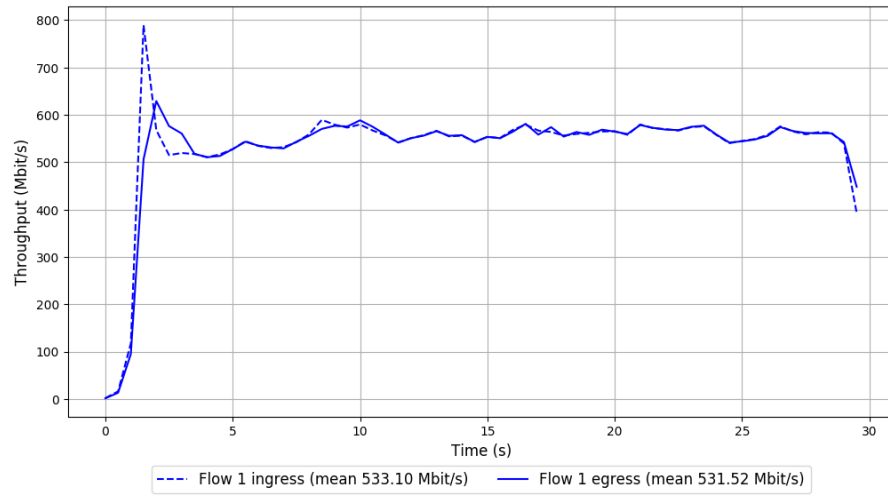
-- Flow 1:

Average throughput: 531.52 Mbit/s

95th percentile per-packet one-way delay: 77.433 ms

Loss rate: 0.30%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-20 04:38:32

End at: 2018-02-20 04:39:02

Below is generated by plot.py at 2018-02-20 07:45:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.49 Mbit/s

95th percentile per-packet one-way delay: 174.561 ms

Loss rate: 0.37%

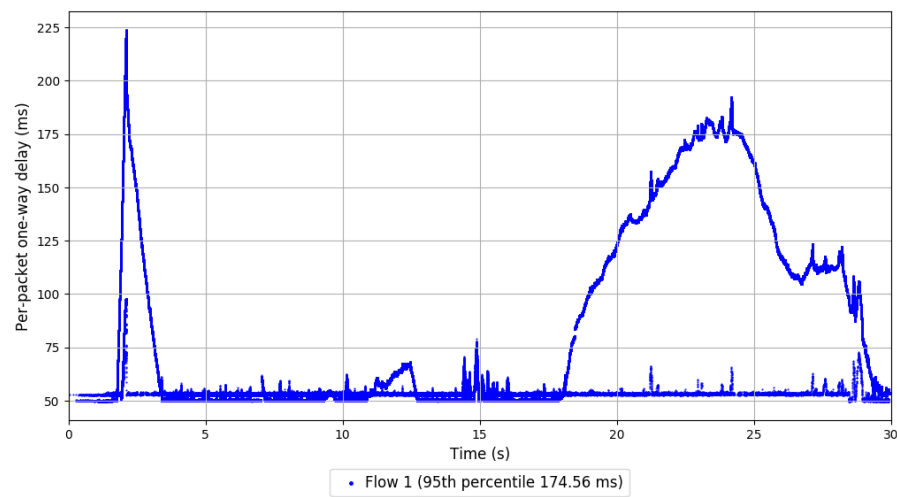
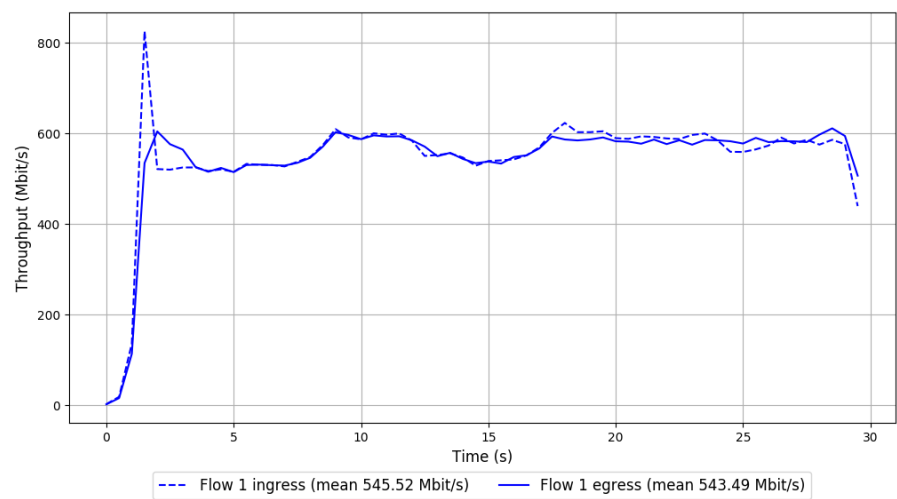
-- Flow 1:

Average throughput: 543.49 Mbit/s

95th percentile per-packet one-way delay: 174.561 ms

Loss rate: 0.37%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-20 04:53:00

End at: 2018-02-20 04:53:30

Below is generated by plot.py at 2018-02-20 07:45:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.36 Mbit/s

95th percentile per-packet one-way delay: 71.917 ms

Loss rate: 0.25%

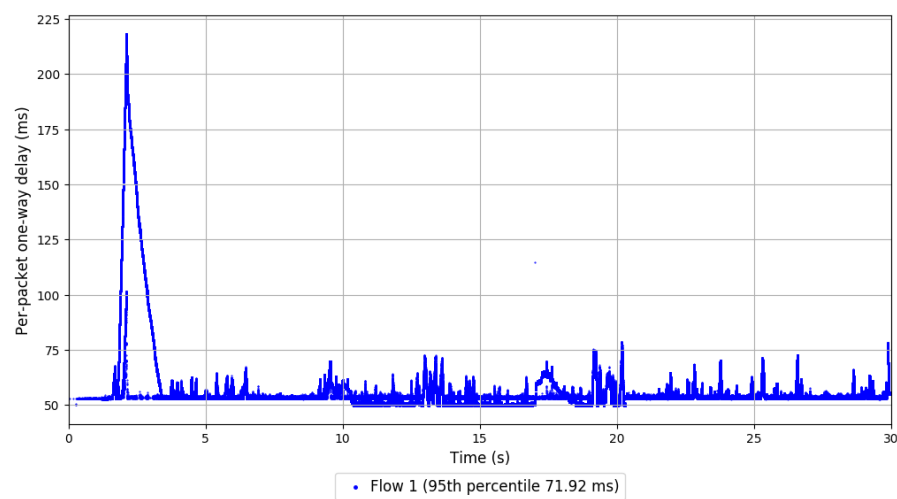
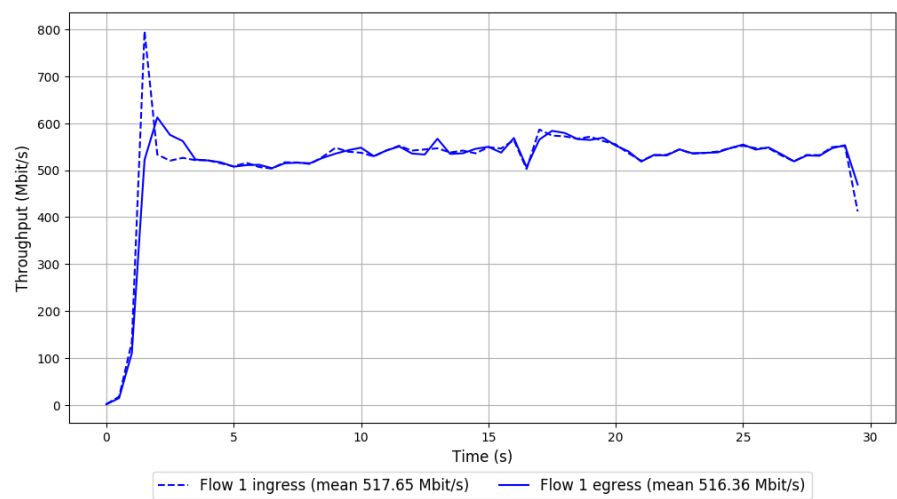
-- Flow 1:

Average throughput: 516.36 Mbit/s

95th percentile per-packet one-way delay: 71.917 ms

Loss rate: 0.25%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-20 05:07:22

End at: 2018-02-20 05:07:52

Below is generated by plot.py at 2018-02-20 07:45:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.39 Mbit/s

95th percentile per-packet one-way delay: 107.891 ms

Loss rate: 0.24%

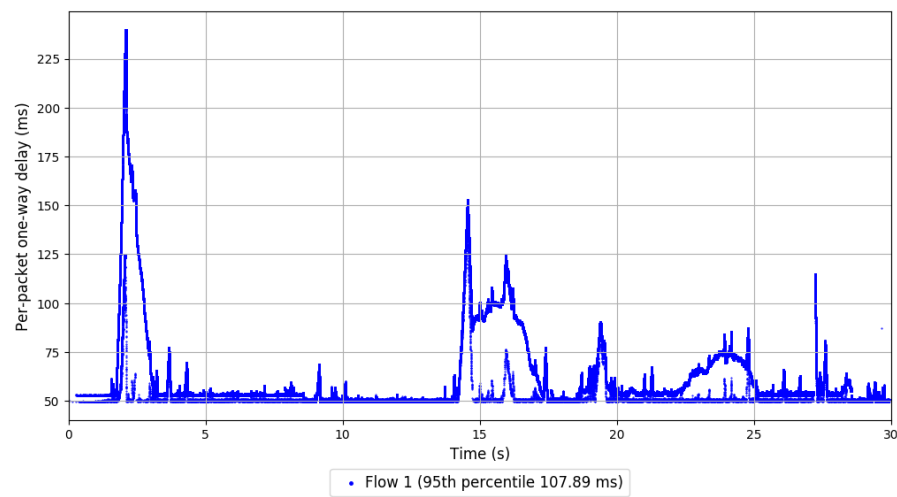
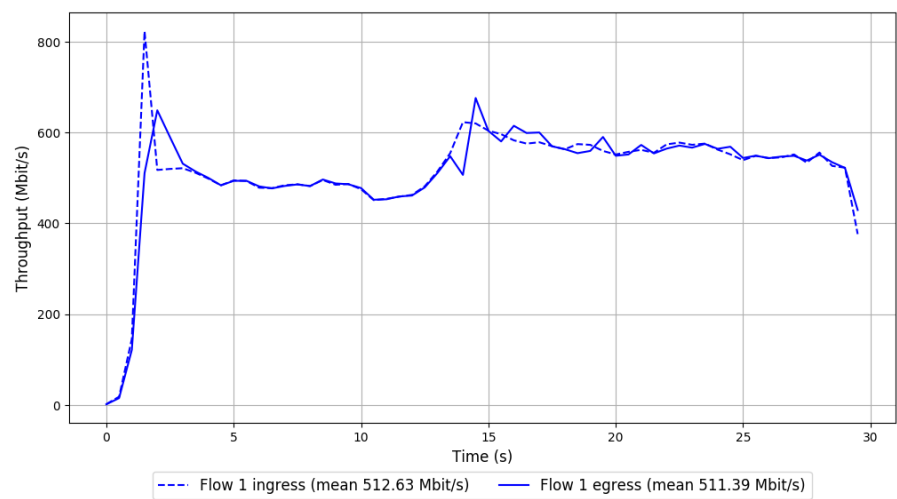
-- Flow 1:

Average throughput: 511.39 Mbit/s

95th percentile per-packet one-way delay: 107.891 ms

Loss rate: 0.24%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-20 05:21:57

End at: 2018-02-20 05:22:27

Below is generated by plot.py at 2018-02-20 07:53:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 499.94 Mbit/s

95th percentile per-packet one-way delay: 130.898 ms

Loss rate: 0.33%

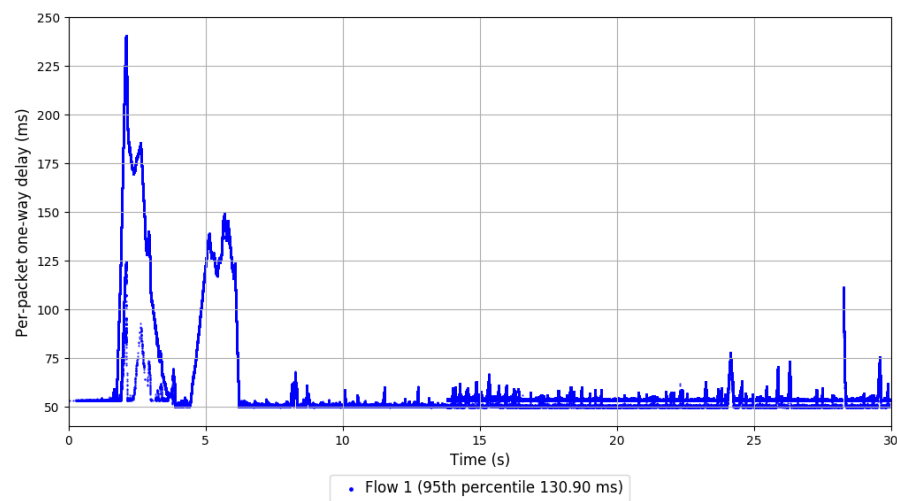
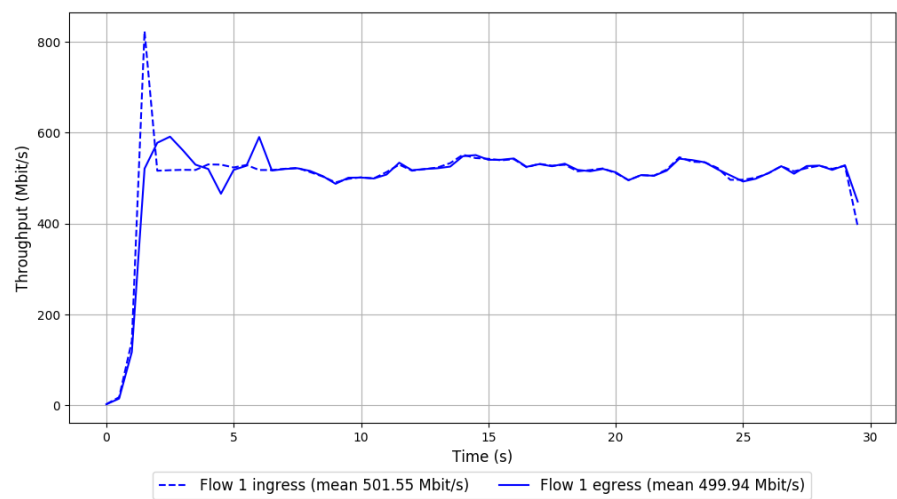
-- Flow 1:

Average throughput: 499.94 Mbit/s

95th percentile per-packet one-way delay: 130.898 ms

Loss rate: 0.33%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-20 05:36:20

End at: 2018-02-20 05:36:50

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.18 Mbit/s

95th percentile per-packet one-way delay: 96.192 ms

Loss rate: 0.42%

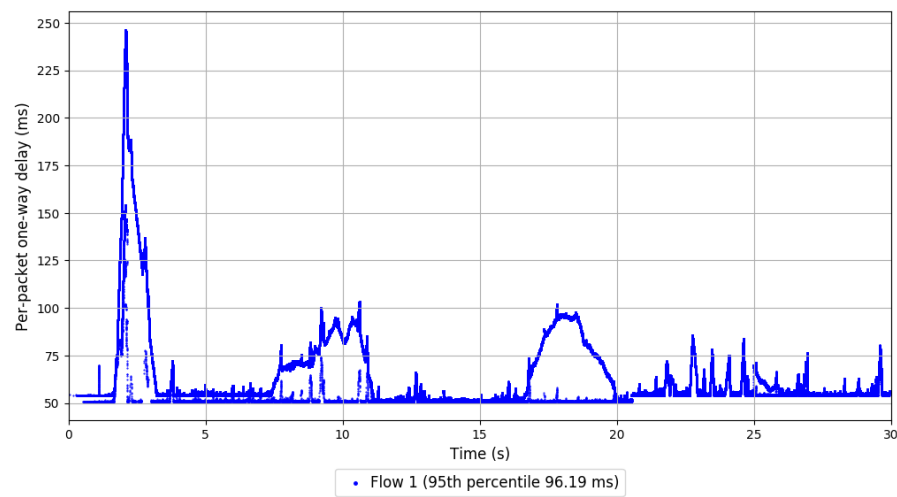
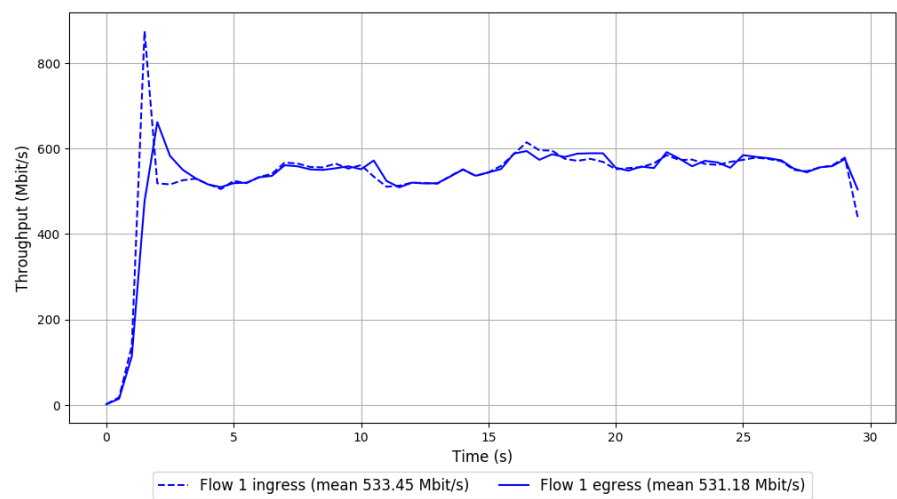
-- Flow 1:

Average throughput: 531.18 Mbit/s

95th percentile per-packet one-way delay: 96.192 ms

Loss rate: 0.42%

Run 10: Report of PCC — Data Link

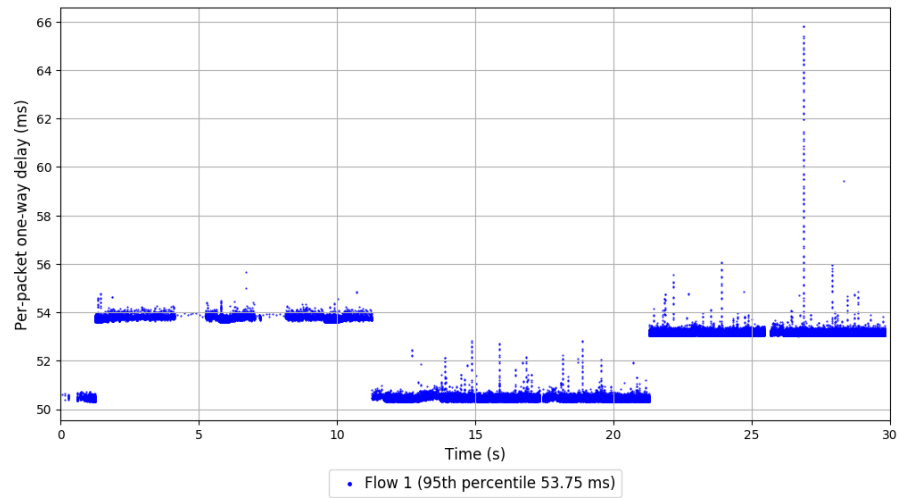
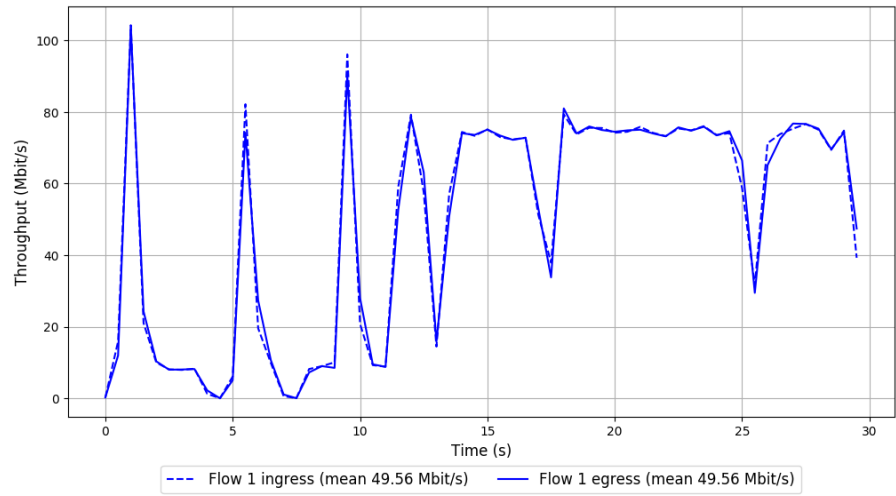


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-20 03:27:19
End at: 2018-02-20 03:27:49

# Below is generated by plot.py at 2018-02-20 07:54:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.56 Mbit/s
95th percentile per-packet one-way delay: 53.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.56 Mbit/s
95th percentile per-packet one-way delay: 53.746 ms
Loss rate: 0.00%
```


Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-20 03:42:06

End at: 2018-02-20 03:42:36

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.78 Mbit/s

95th percentile per-packet one-way delay: 53.071 ms

Loss rate: 0.00%

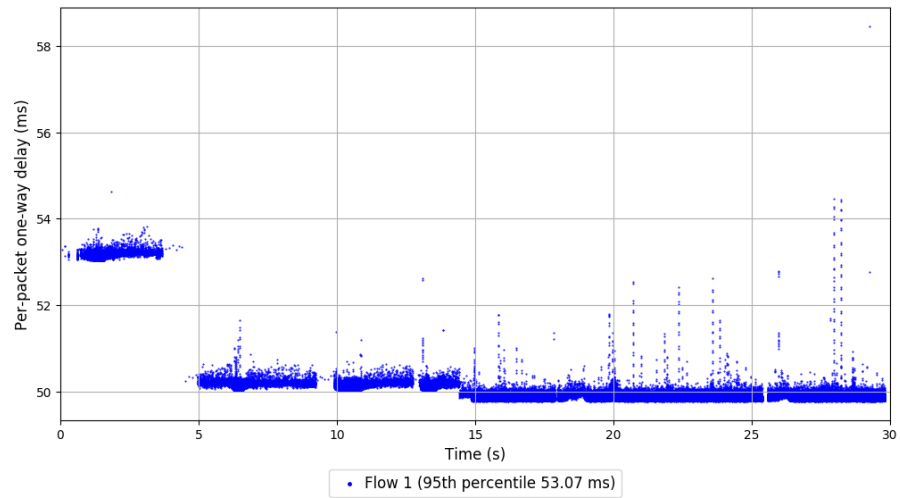
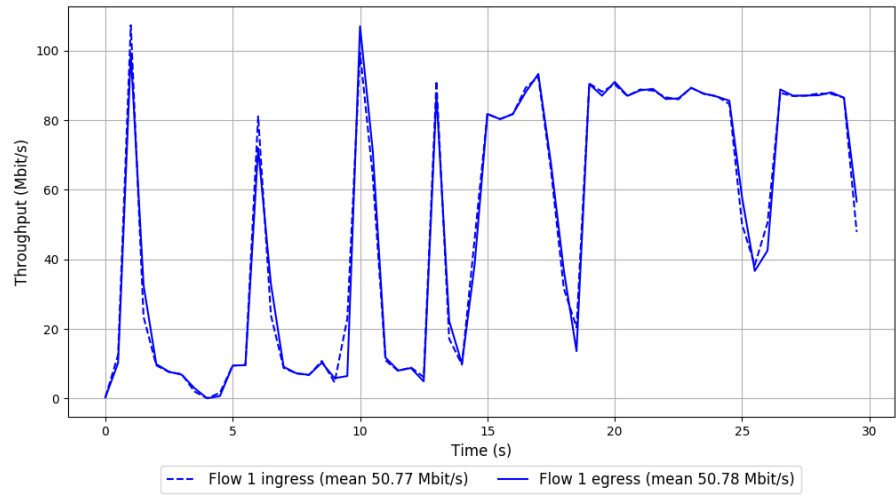
-- Flow 1:

Average throughput: 50.78 Mbit/s

95th percentile per-packet one-way delay: 53.071 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-20 03:56:35

End at: 2018-02-20 03:57:05

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.40 Mbit/s

95th percentile per-packet one-way delay: 49.475 ms

Loss rate: 0.00%

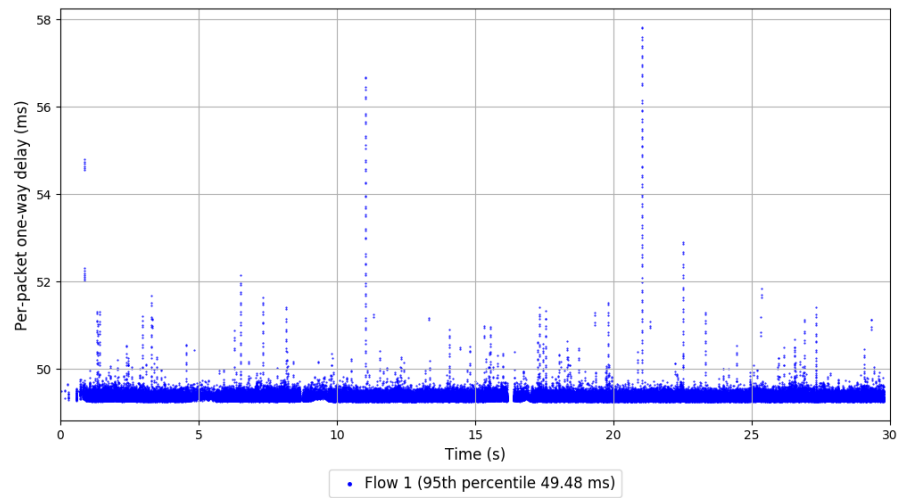
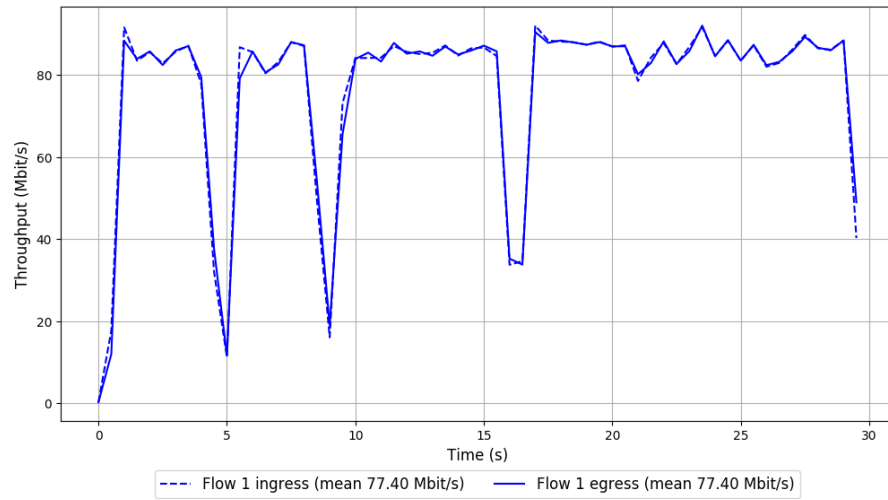
-- Flow 1:

Average throughput: 77.40 Mbit/s

95th percentile per-packet one-way delay: 49.475 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-20 04:10:58

End at: 2018-02-20 04:11:28

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 52.694 ms

Loss rate: 0.00%

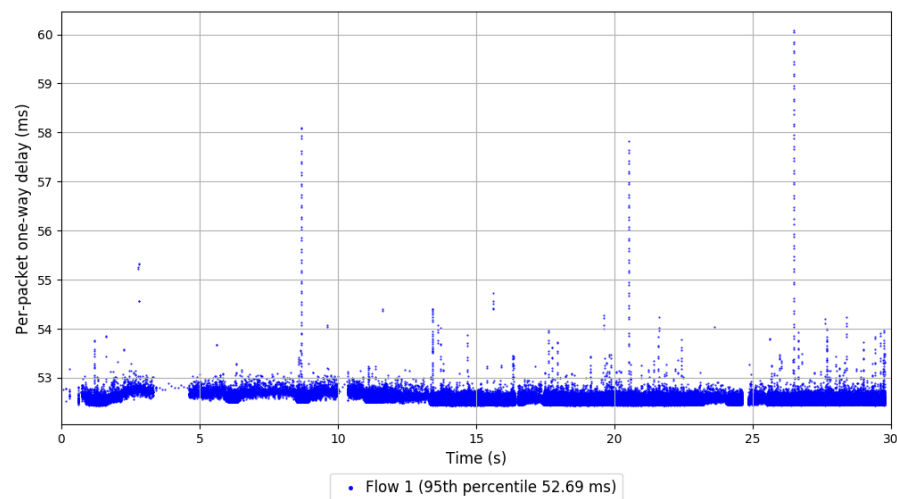
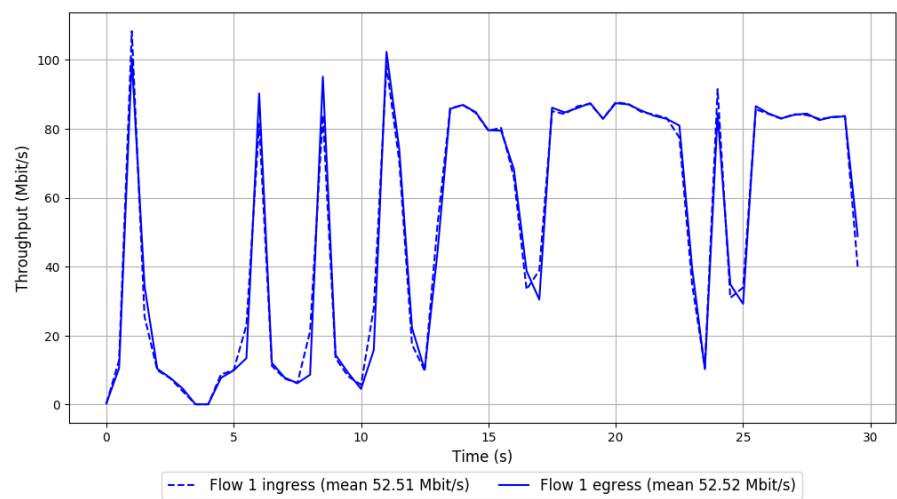
-- Flow 1:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 52.694 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

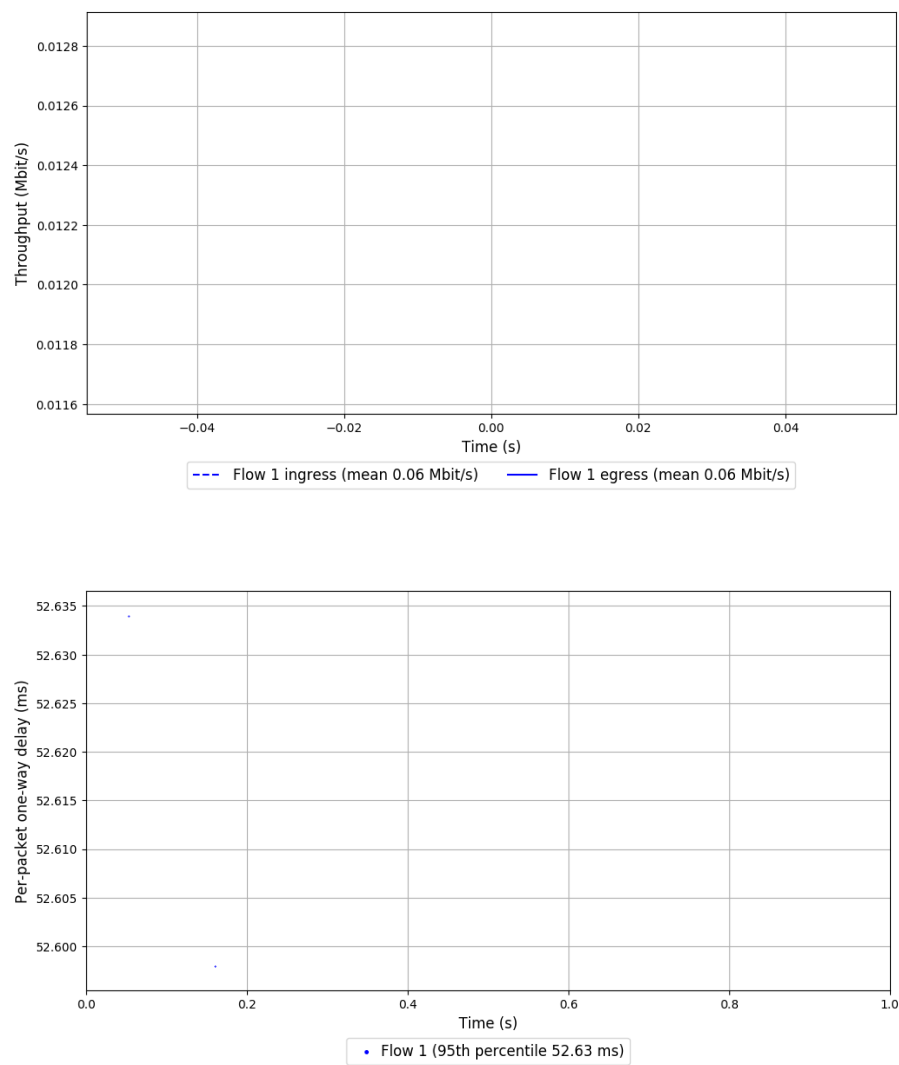


Run 5: Statistics of QUIC Cubic

Start at: 2018-02-20 04:25:55

End at: 2018-02-20 04:26:25

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-20 04:40:04

End at: 2018-02-20 04:40:35

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.86 Mbit/s

95th percentile per-packet one-way delay: 52.628 ms

Loss rate: 0.01%

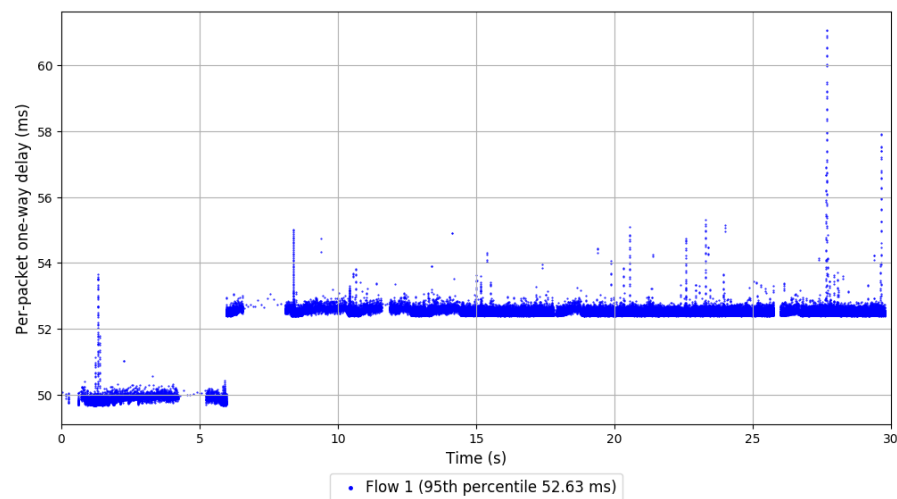
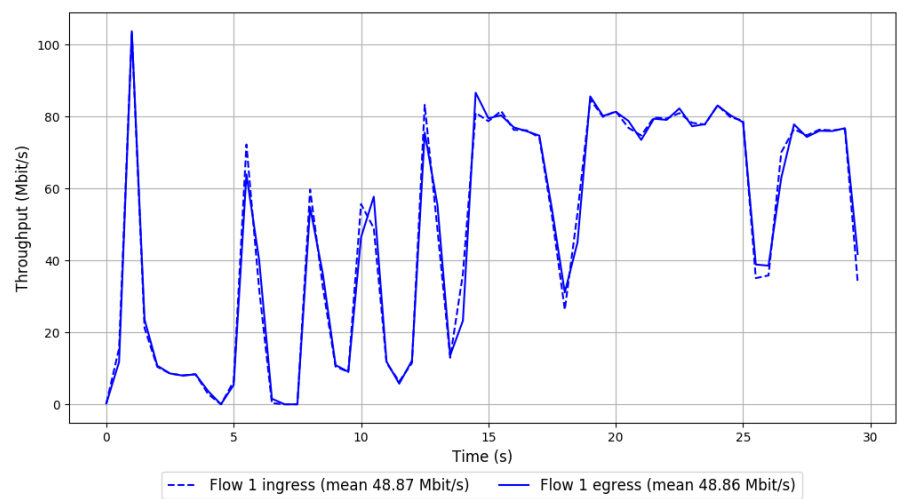
-- Flow 1:

Average throughput: 48.86 Mbit/s

95th percentile per-packet one-way delay: 52.628 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-20 04:54:32

End at: 2018-02-20 04:55:02

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 52.959 ms

Loss rate: 0.01%

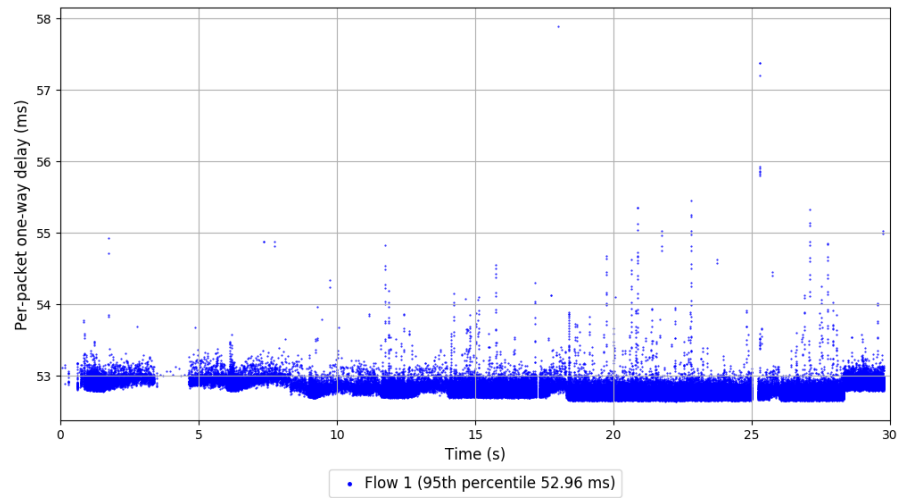
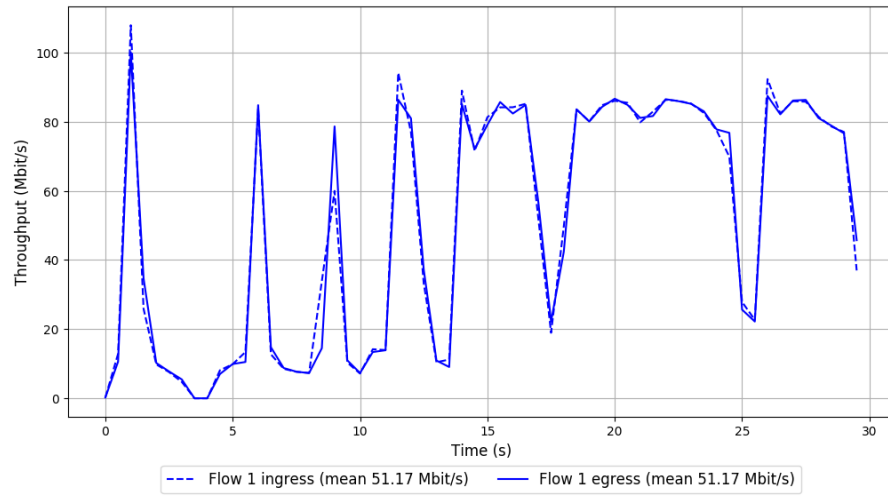
-- Flow 1:

Average throughput: 51.17 Mbit/s

95th percentile per-packet one-way delay: 52.959 ms

Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-20 05:08:53

End at: 2018-02-20 05:09:24

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 49.267 ms

Loss rate: 0.00%

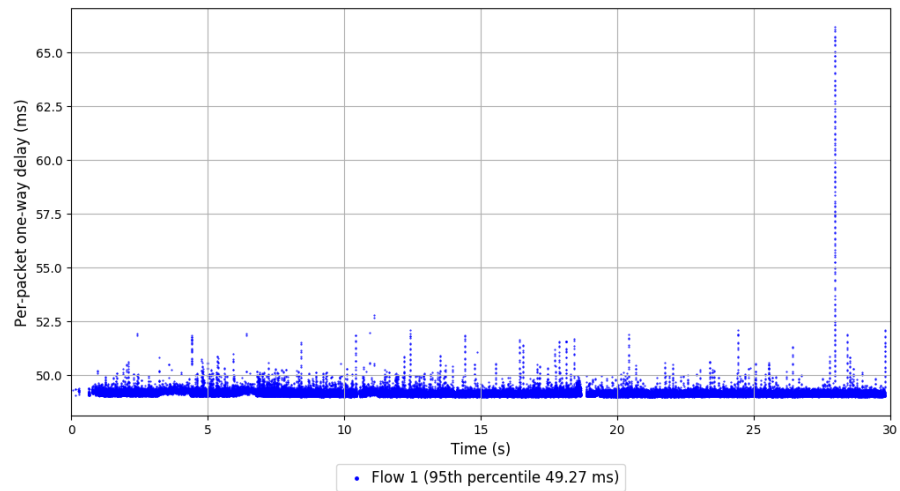
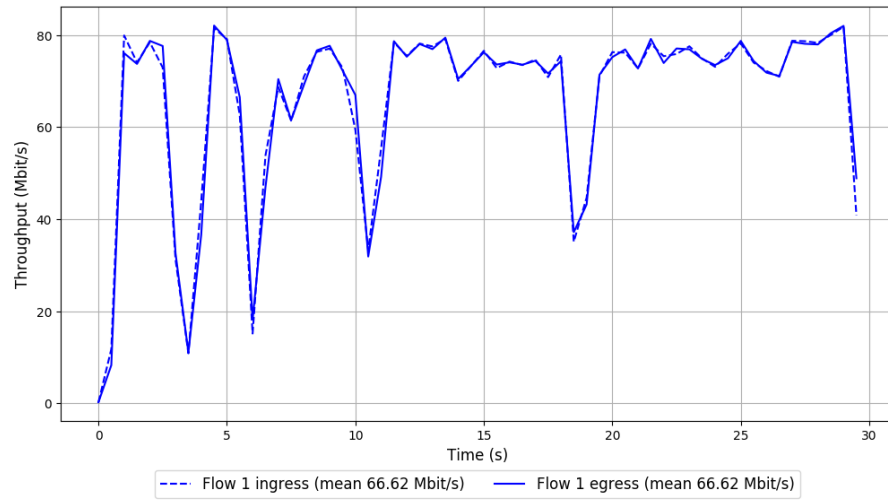
-- Flow 1:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 49.267 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-20 05:23:28

End at: 2018-02-20 05:23:58

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.01 Mbit/s

95th percentile per-packet one-way delay: 53.653 ms

Loss rate: 0.00%

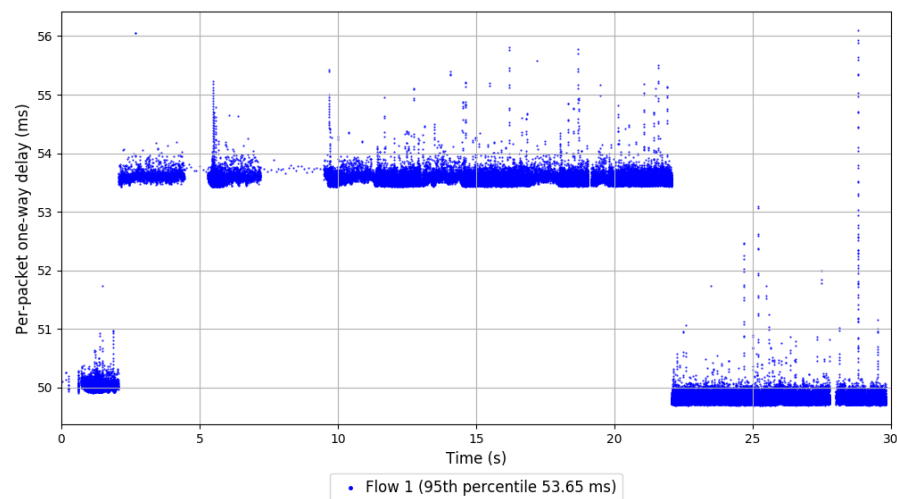
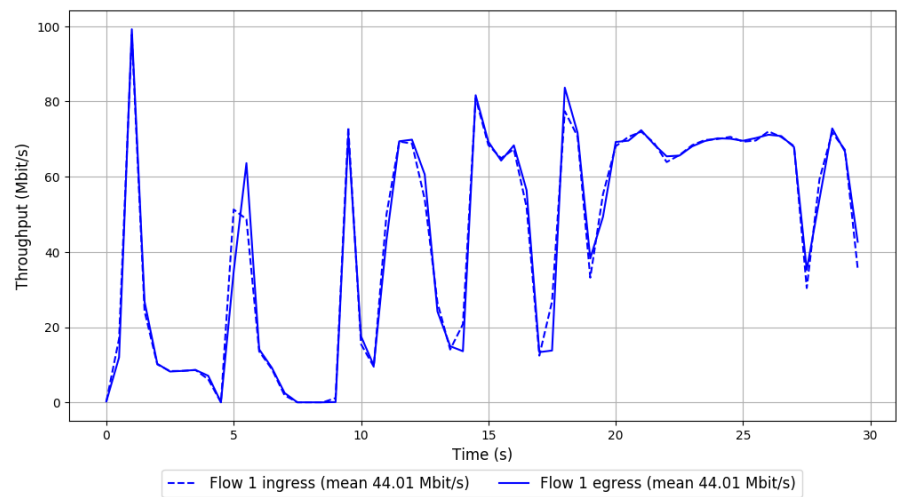
-- Flow 1:

Average throughput: 44.01 Mbit/s

95th percentile per-packet one-way delay: 53.653 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

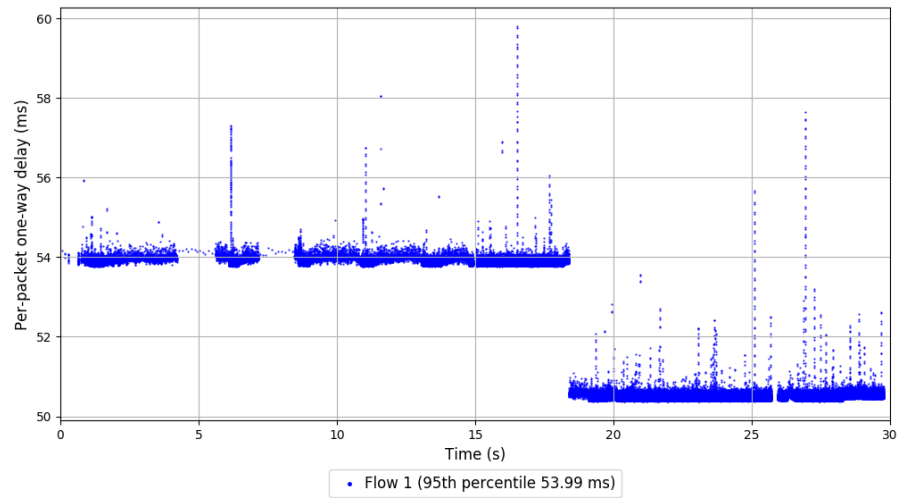
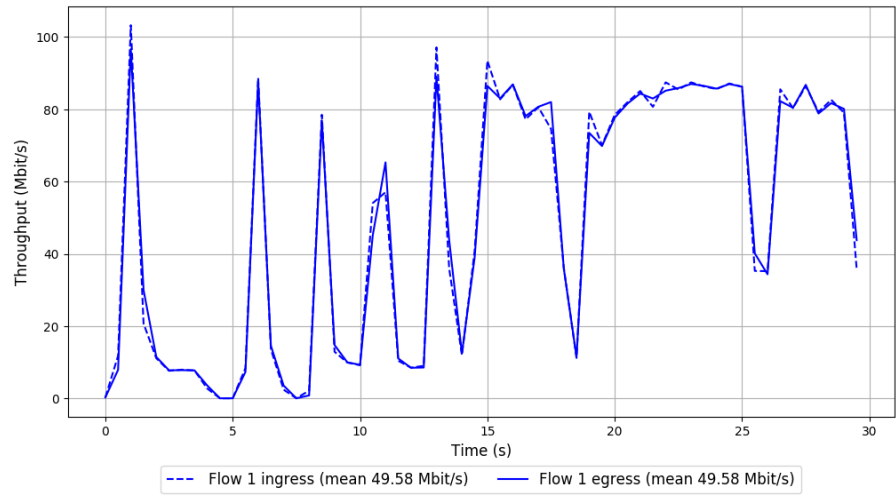


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-20 05:37:52
End at: 2018-02-20 05:38:22

# Below is generated by plot.py at 2018-02-20 07:54:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.58 Mbit/s
95th percentile per-packet one-way delay: 53.986 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 49.58 Mbit/s
95th percentile per-packet one-way delay: 53.986 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

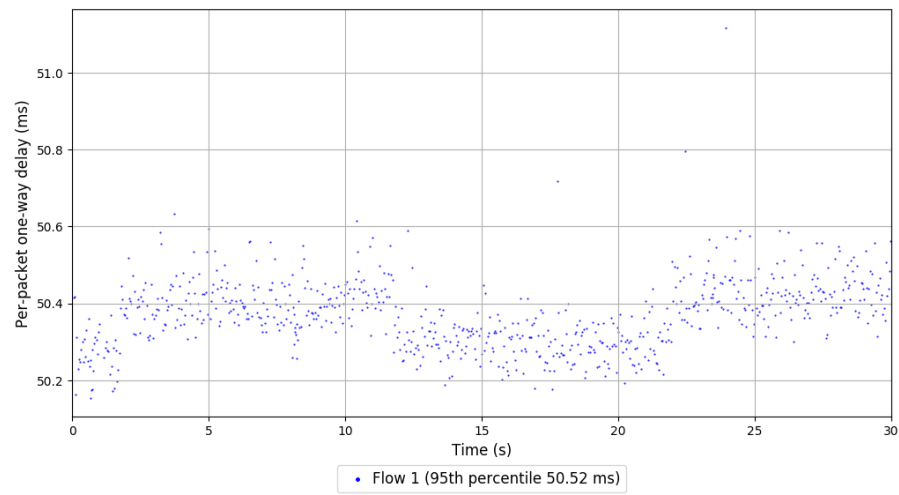
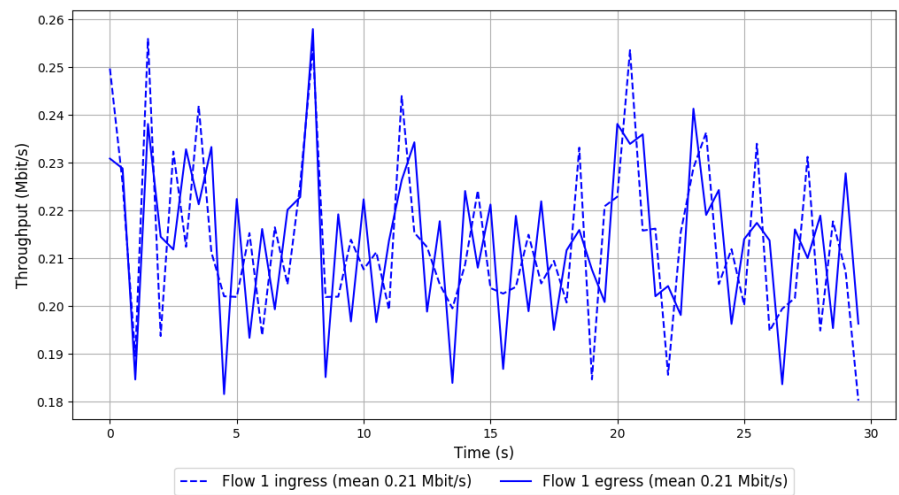


```
Run 1: Statistics of SCReAM

Start at: 2018-02-20 03:18:19
End at: 2018-02-20 03:18:49

# Below is generated by plot.py at 2018-02-20 07:54:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.518 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.518 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

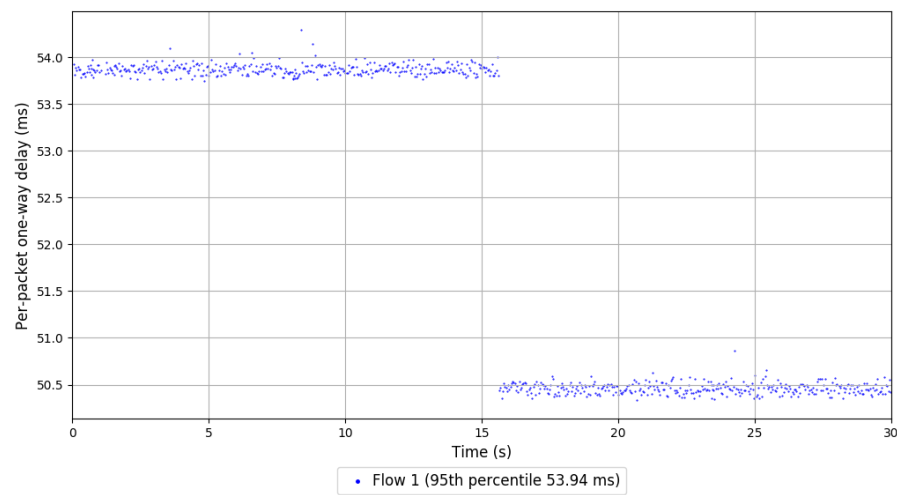
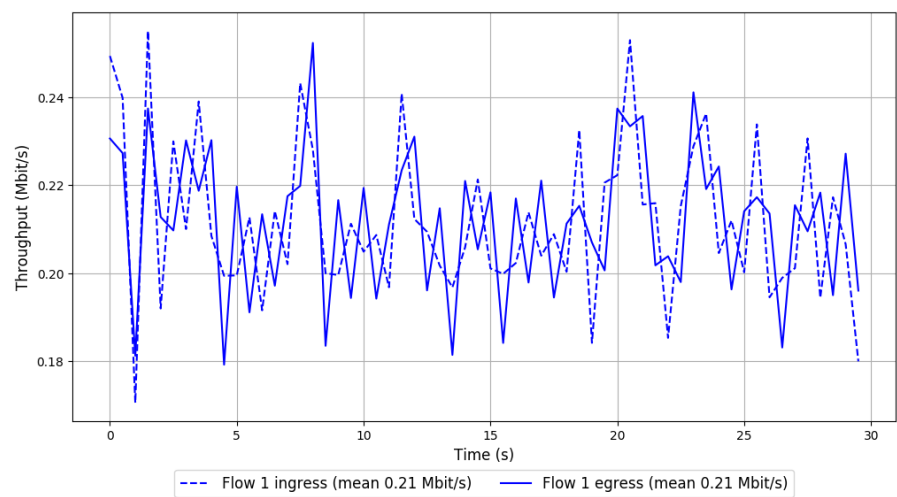


```
Run 2: Statistics of SCReAM

Start at: 2018-02-20 03:32:45
End at: 2018-02-20 03:33:15

# Below is generated by plot.py at 2018-02-20 07:54:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.935 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.935 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-20 03:47:37

End at: 2018-02-20 03:48:07

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.381 ms

Loss rate: 0.00%

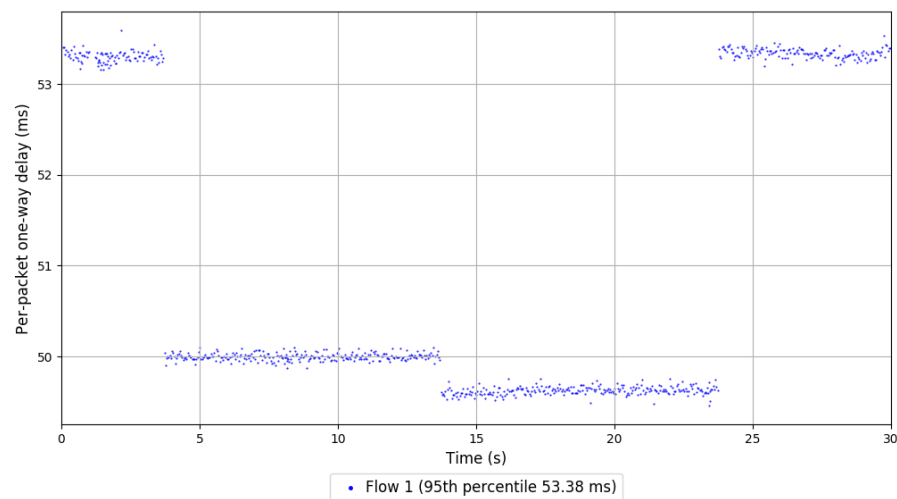
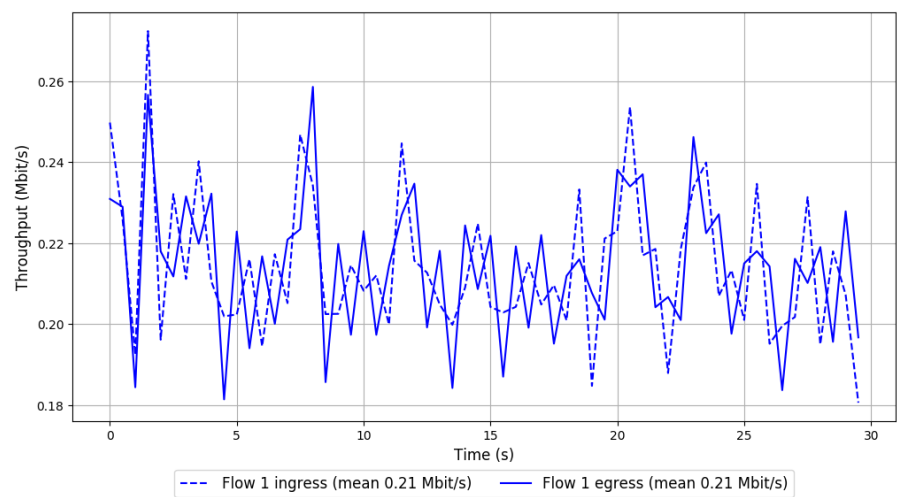
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.381 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

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

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

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 52.898 ms

Loss rate: 0.00%

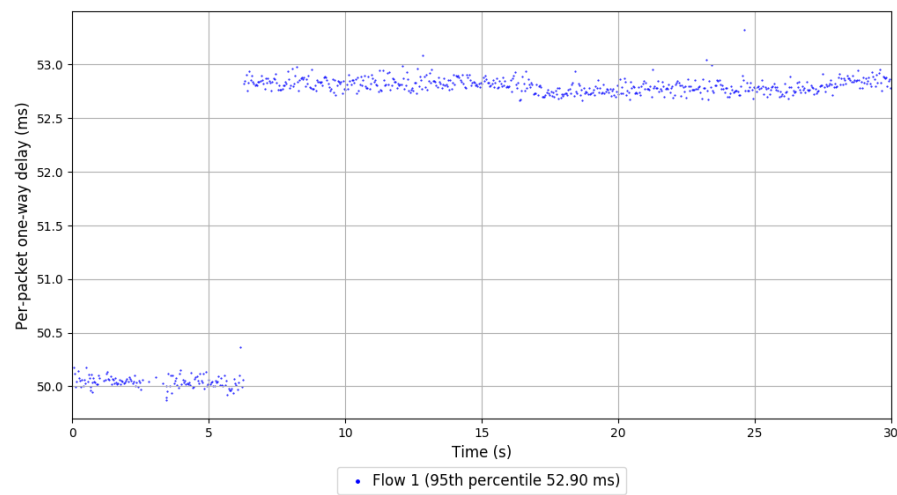
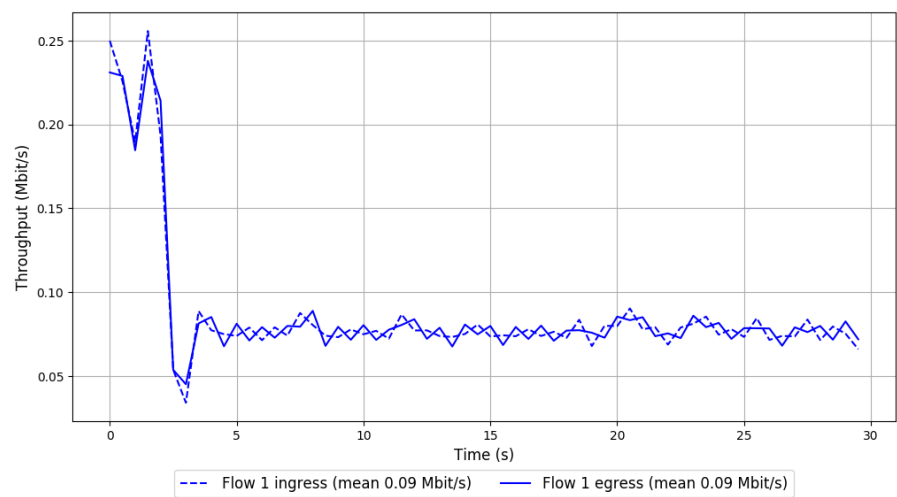
-- Flow 1:

Average throughput: 0.09 Mbit/s

95th percentile per-packet one-way delay: 52.898 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-20 04:16:33

End at: 2018-02-20 04:17:03

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.158 ms

Loss rate: 0.00%

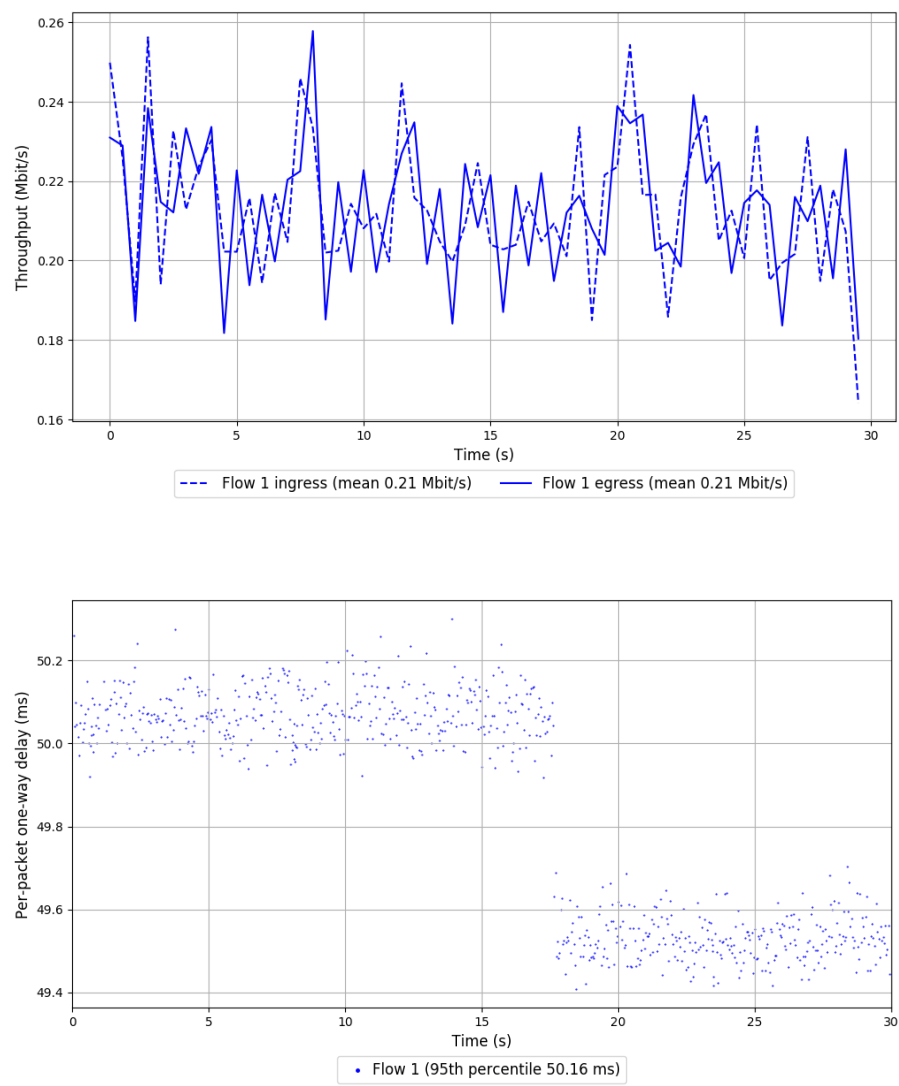
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.158 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-20 04:31:17

End at: 2018-02-20 04:31:47

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.984 ms

Loss rate: 0.00%

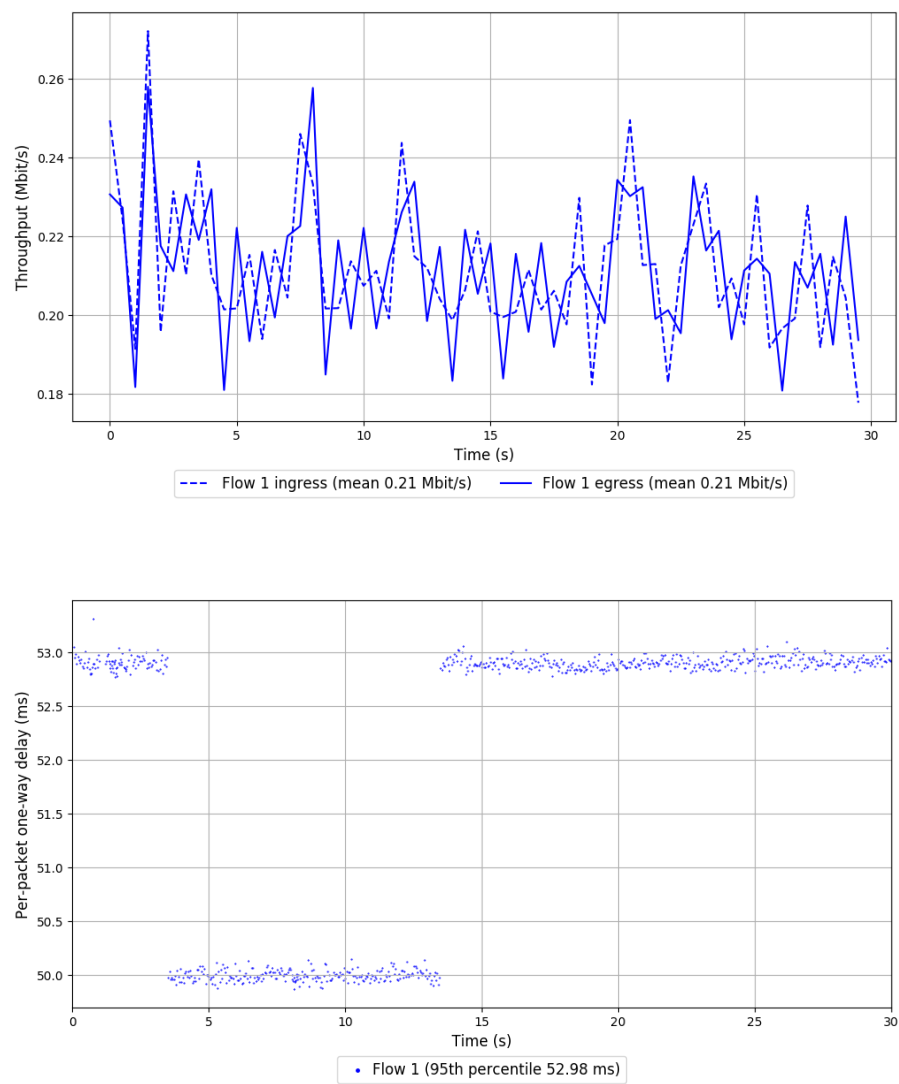
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 52.984 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-20 04:45:35

End at: 2018-02-20 04:46:05

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.046 ms

Loss rate: 0.00%

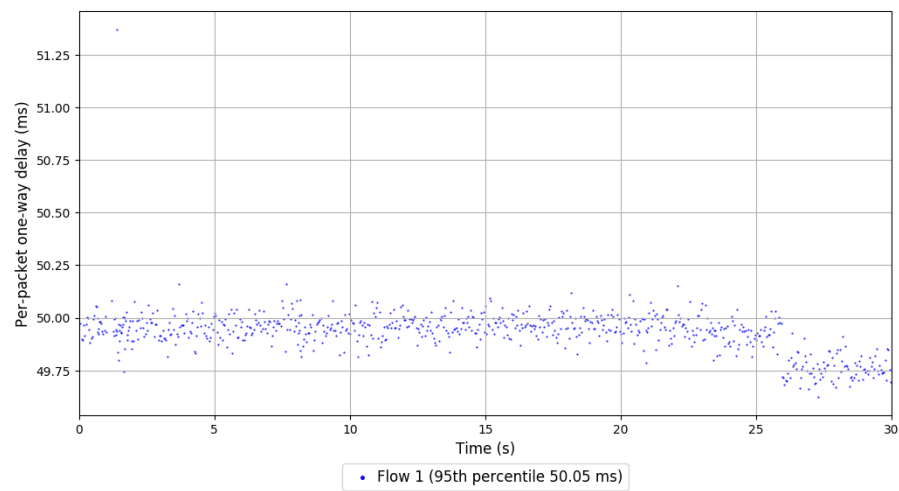
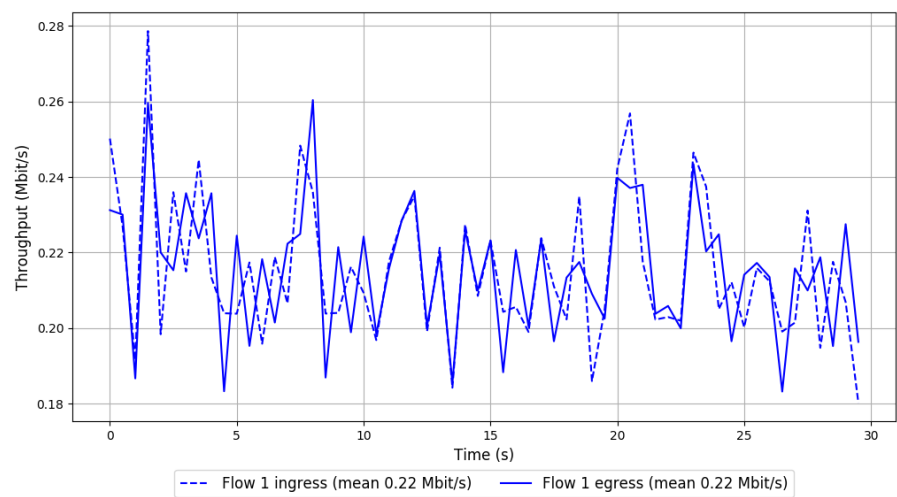
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.046 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-20 04:59:52

End at: 2018-02-20 05:00:22

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.178 ms

Loss rate: 0.12%

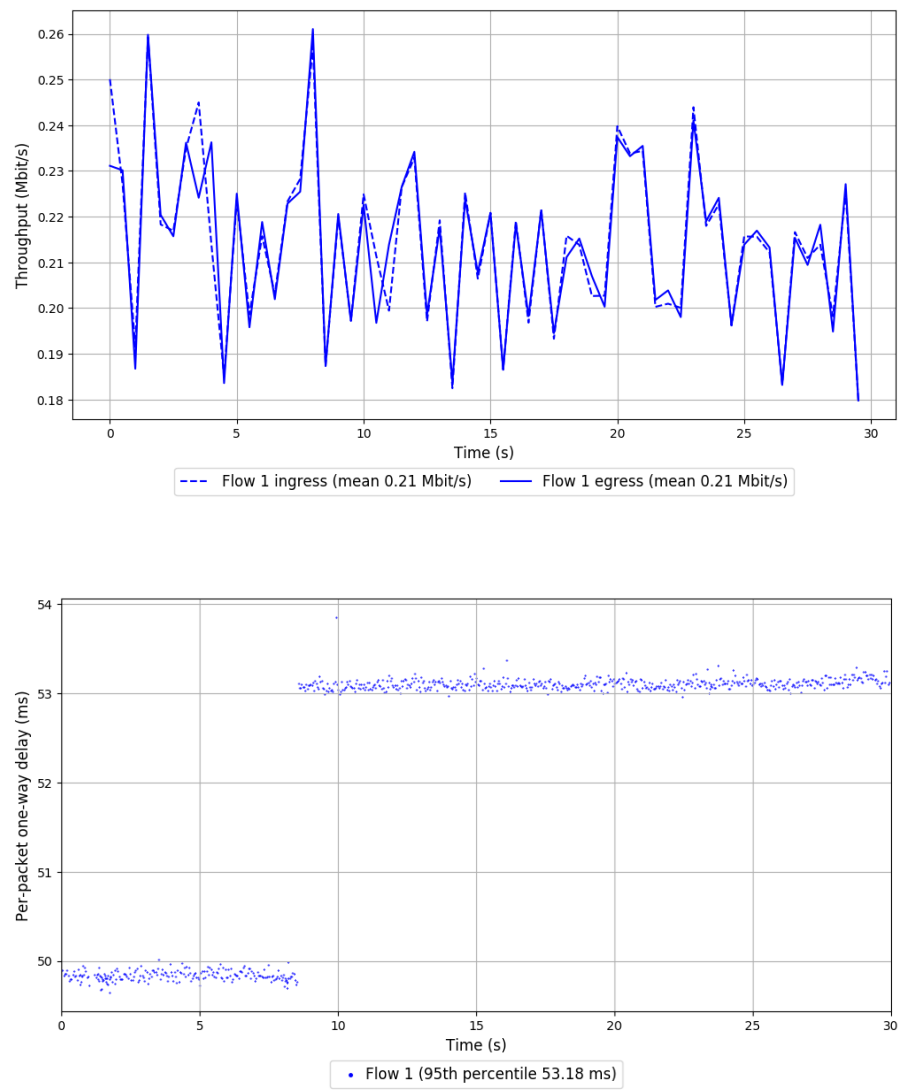
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.178 ms

Loss rate: 0.12%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-20 05:14:28

End at: 2018-02-20 05:14:58

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.024 ms

Loss rate: 0.00%

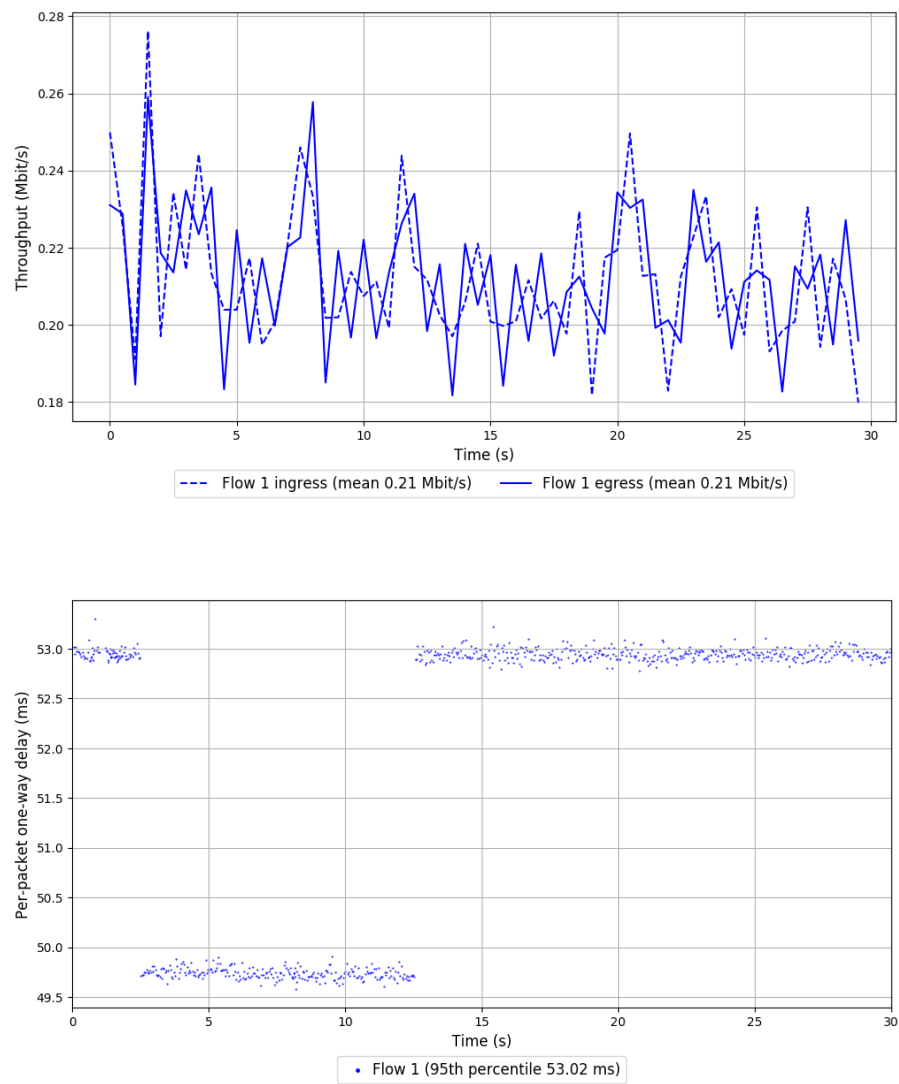
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.024 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-20 05:28:55

End at: 2018-02-20 05:29:25

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.877 ms

Loss rate: 0.00%

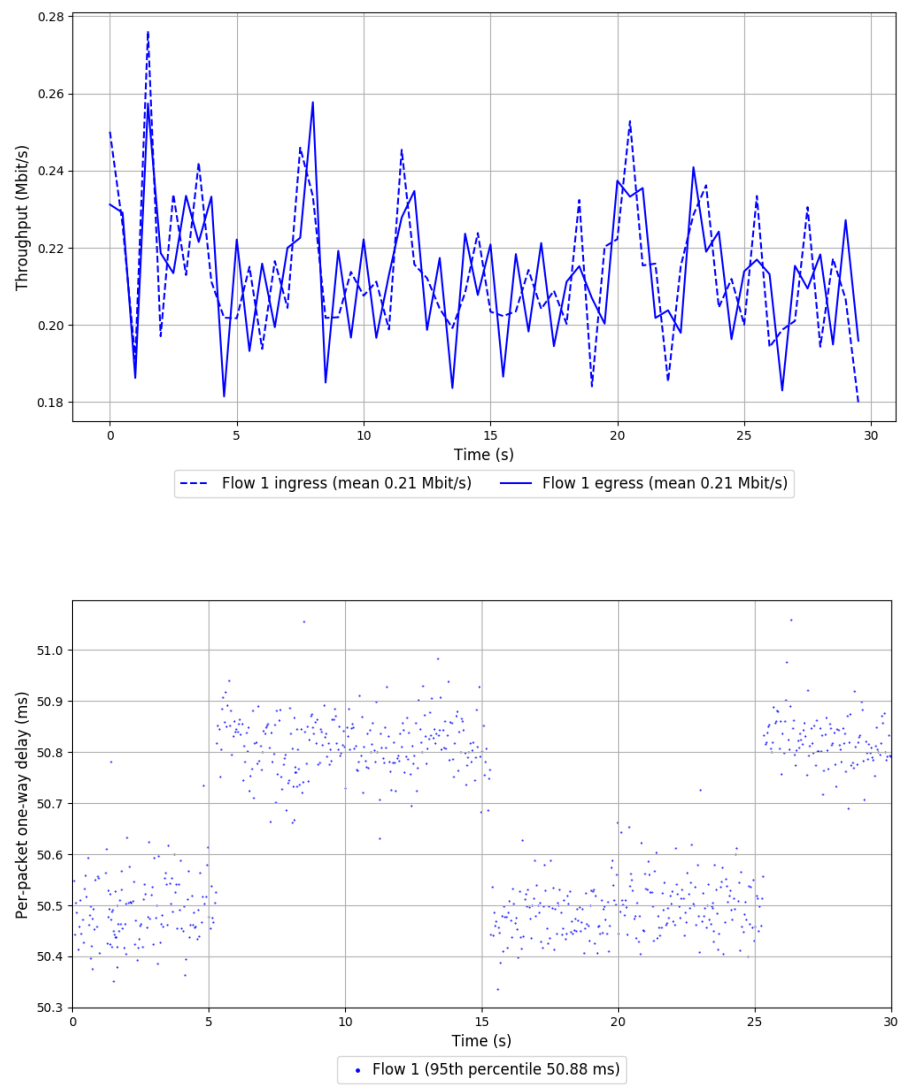
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.877 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

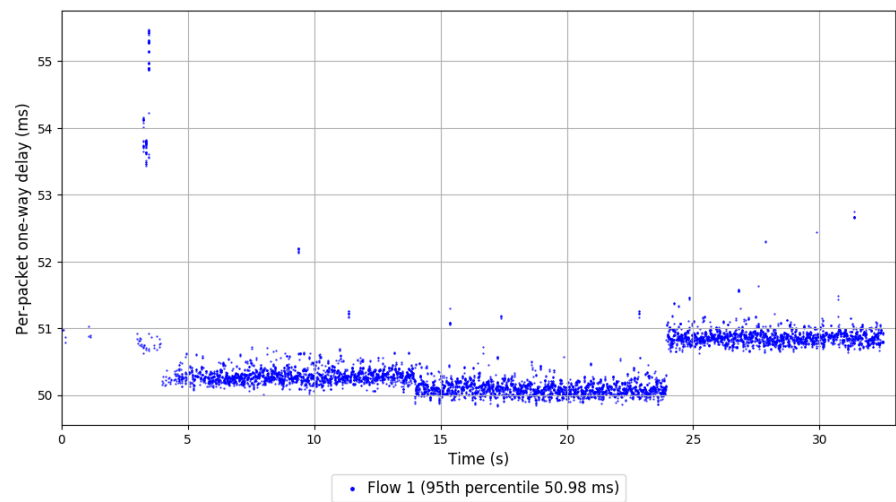
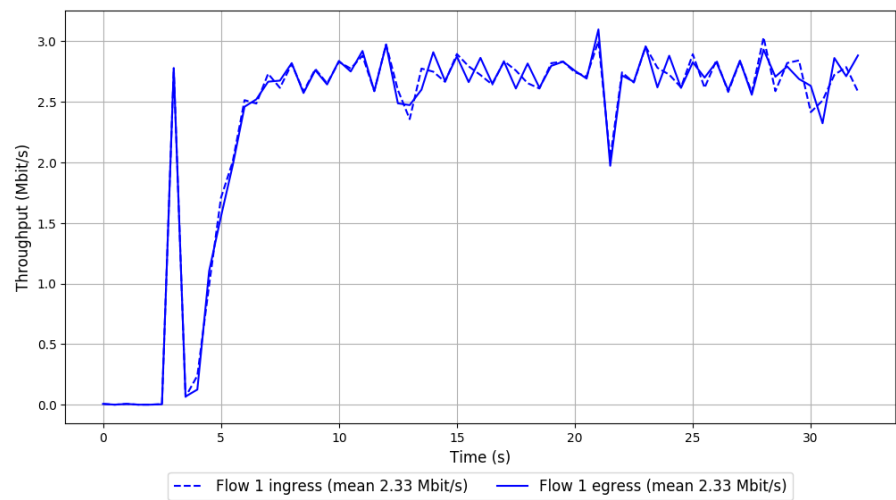


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-20 03:20:59
End at: 2018-02-20 03:21:29

# Below is generated by plot.py at 2018-02-20 07:54:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 50.984 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.33 Mbit/s
95th percentile per-packet one-way delay: 50.984 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-20 03:35:33

End at: 2018-02-20 03:36:03

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.476 ms

Loss rate: 0.00%

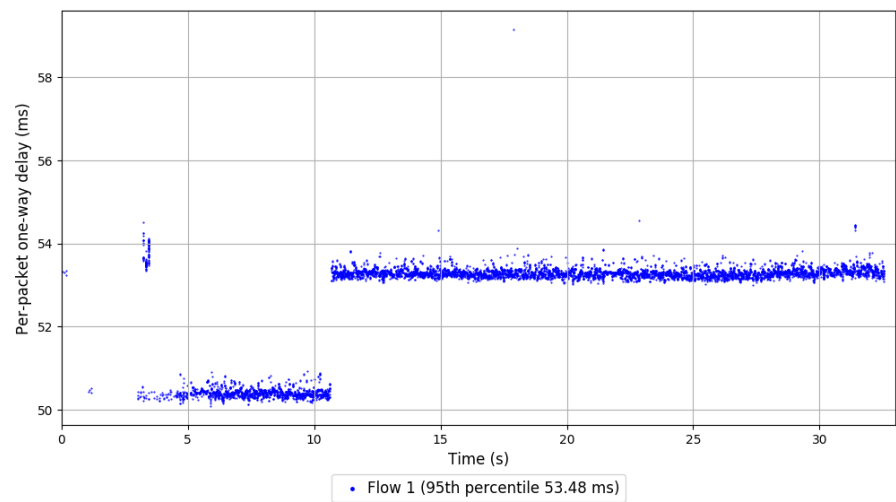
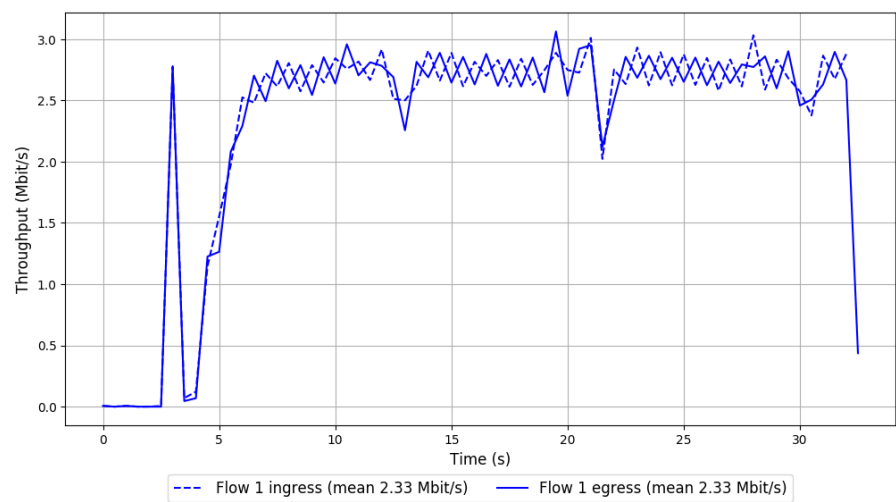
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.476 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-20 03:50:19

End at: 2018-02-20 03:50:49

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.497 ms

Loss rate: 0.00%

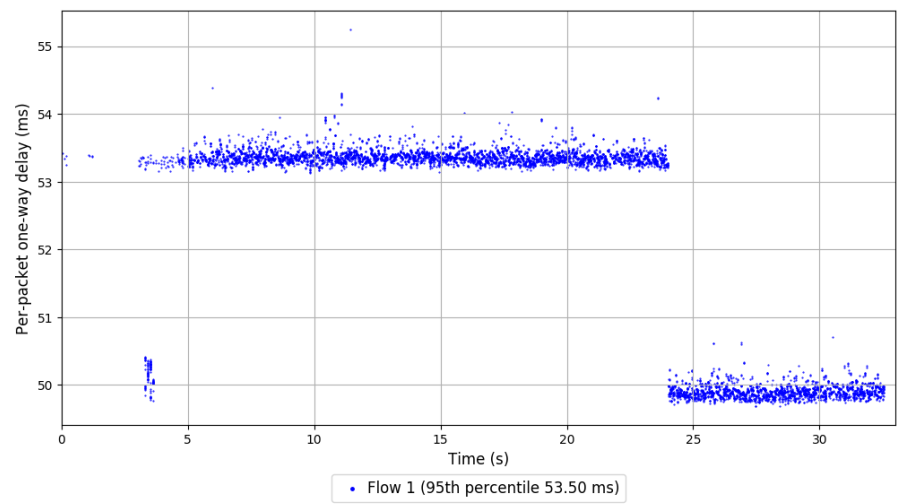
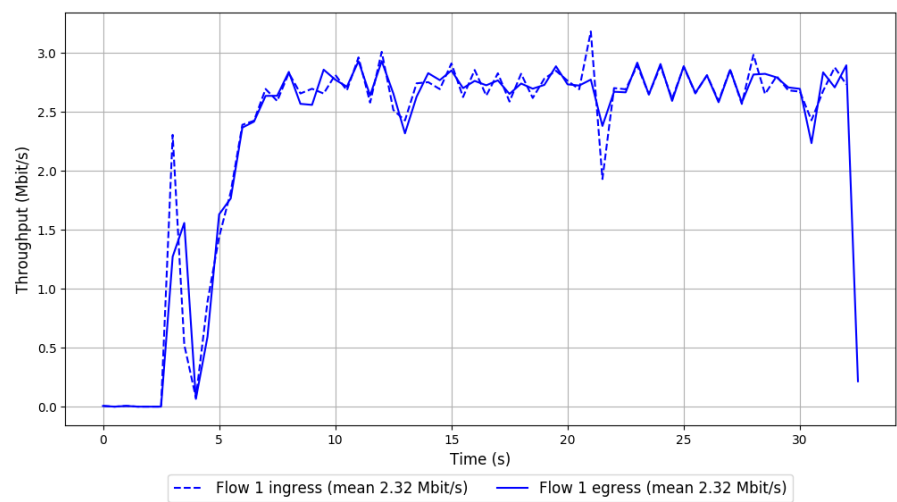
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.497 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

End at: 2018-02-20 04:05:19

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.911 ms

Loss rate: 0.00%

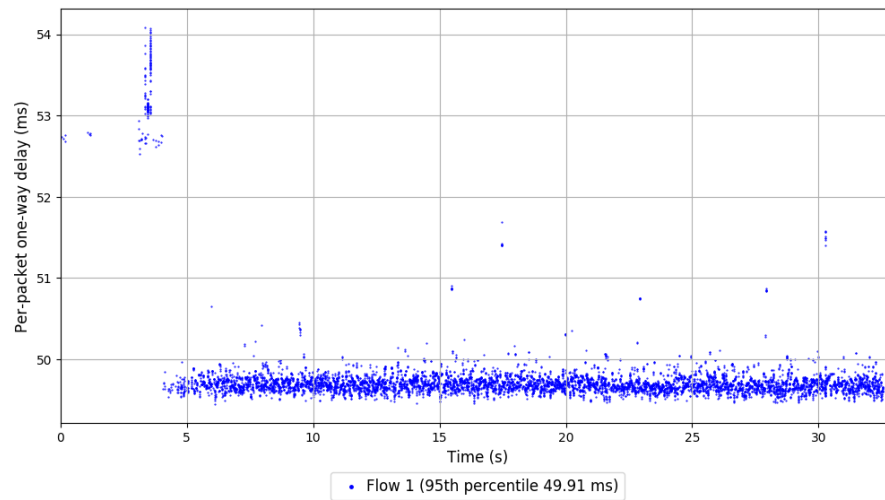
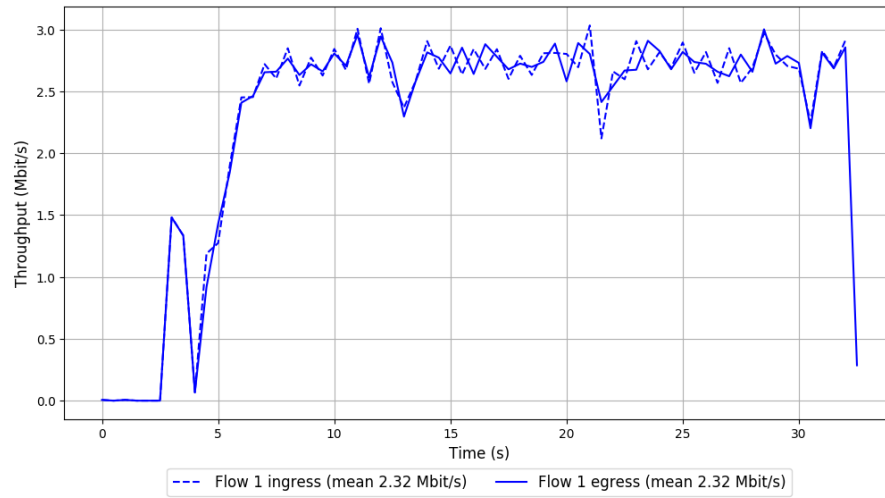
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 49.911 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-20 04:19:23

End at: 2018-02-20 04:19:53

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 52.973 ms

Loss rate: 0.00%

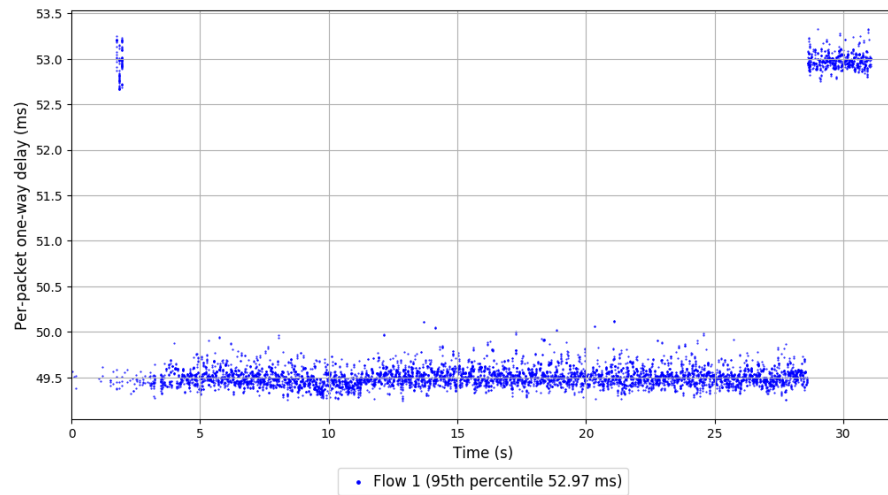
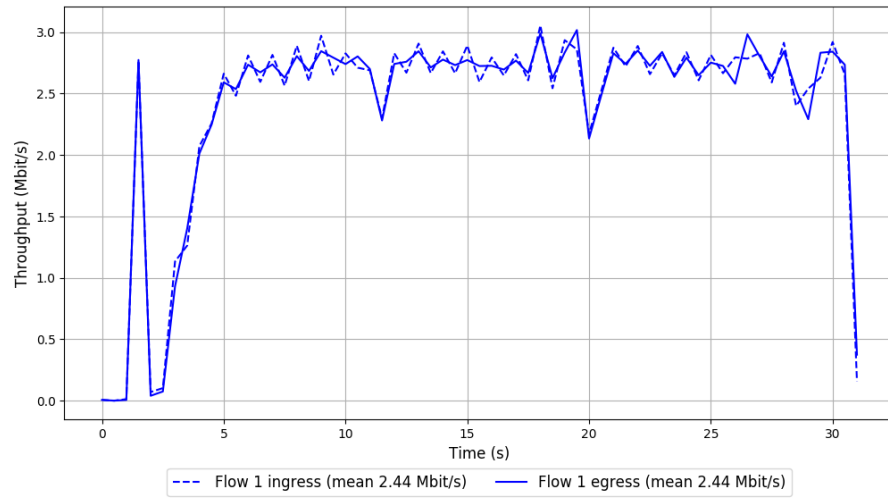
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 52.973 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-20 04:33:59

End at: 2018-02-20 04:34:29

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 52.839 ms

Loss rate: 0.00%

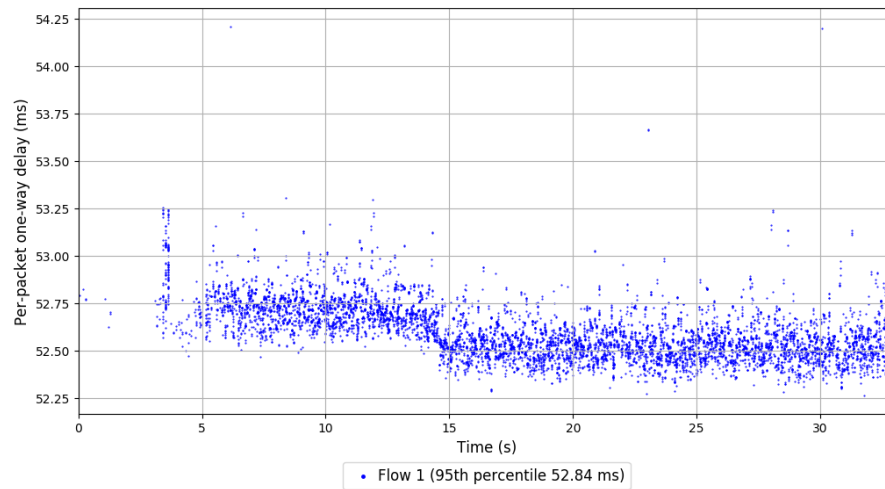
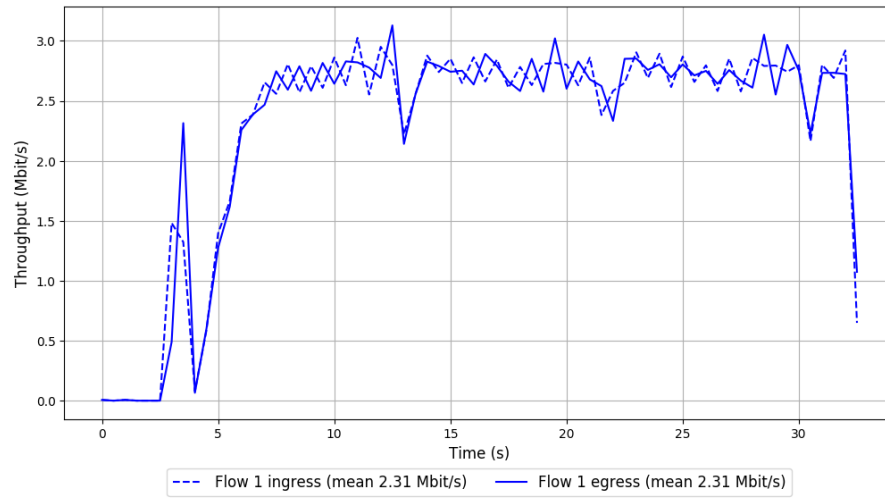
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 52.839 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-20 04:48:18

End at: 2018-02-20 04:48:48

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.155 ms

Loss rate: 0.00%

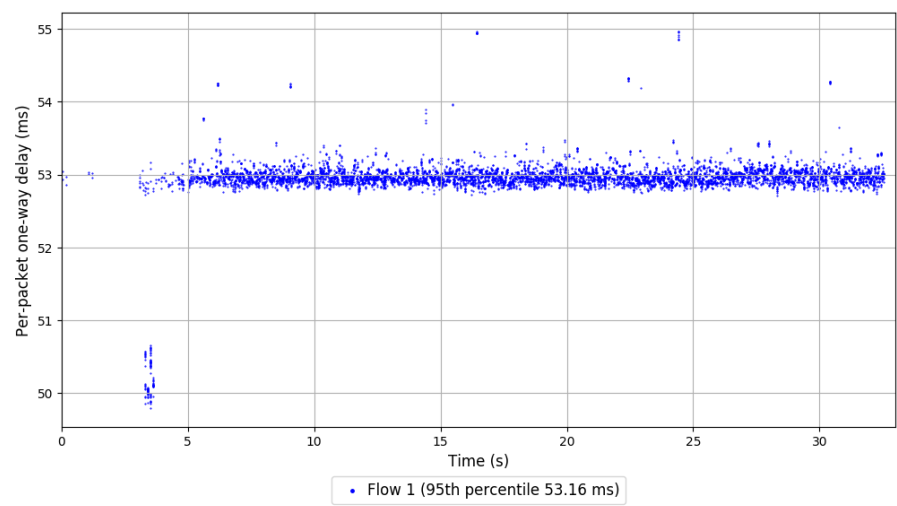
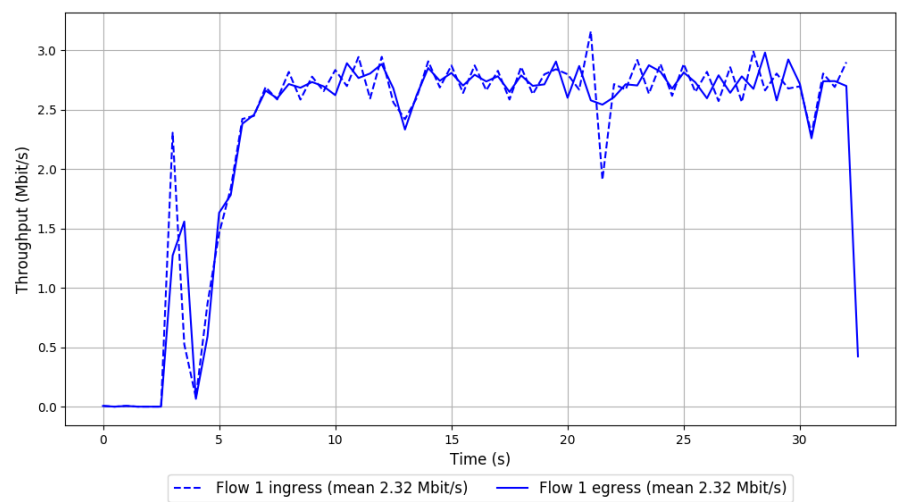
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.155 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-20 05:02:38

End at: 2018-02-20 05:03:08

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.192 ms

Loss rate: 0.00%

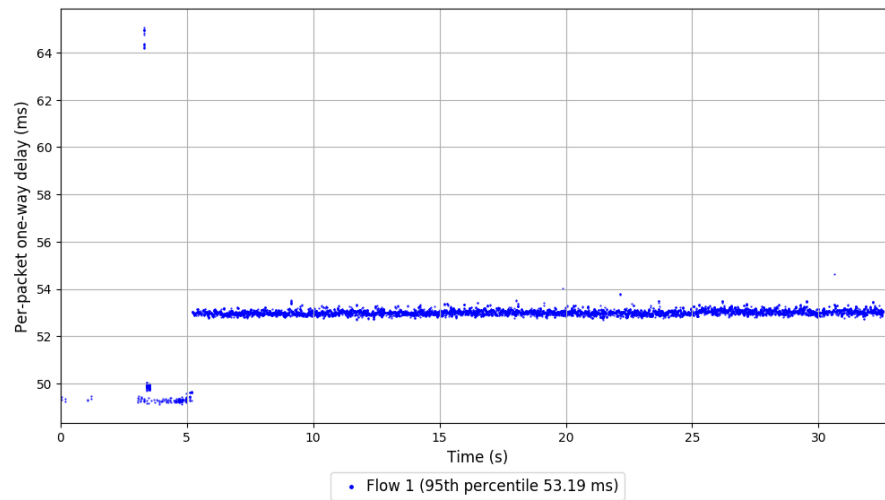
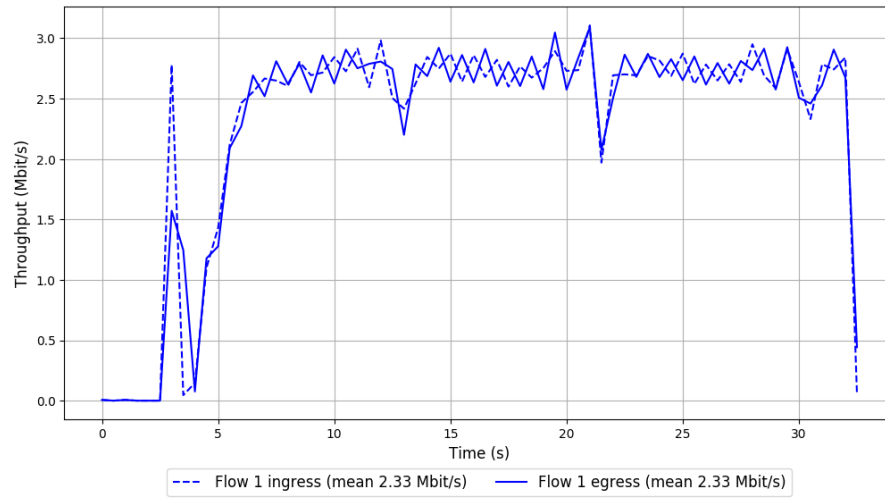
-- Flow 1:

Average throughput: 2.33 Mbit/s

95th percentile per-packet one-way delay: 53.192 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-20 05:17:18

End at: 2018-02-20 05:17:48

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.276 ms

Loss rate: 0.00%

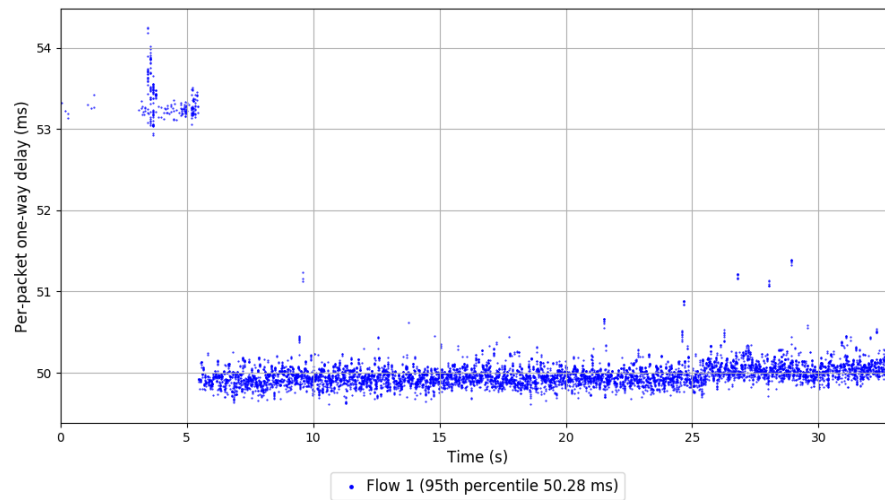
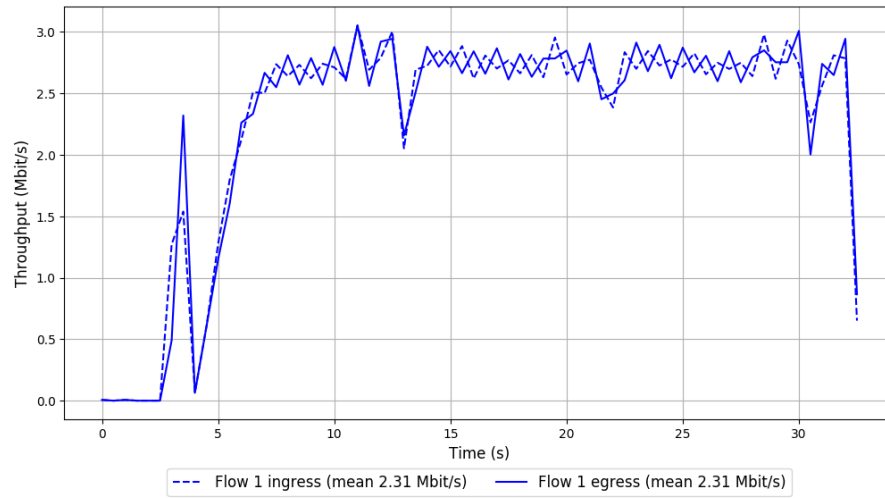
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.276 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-20 05:31:40

End at: 2018-02-20 05:32:10

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.906 ms

Loss rate: 0.00%

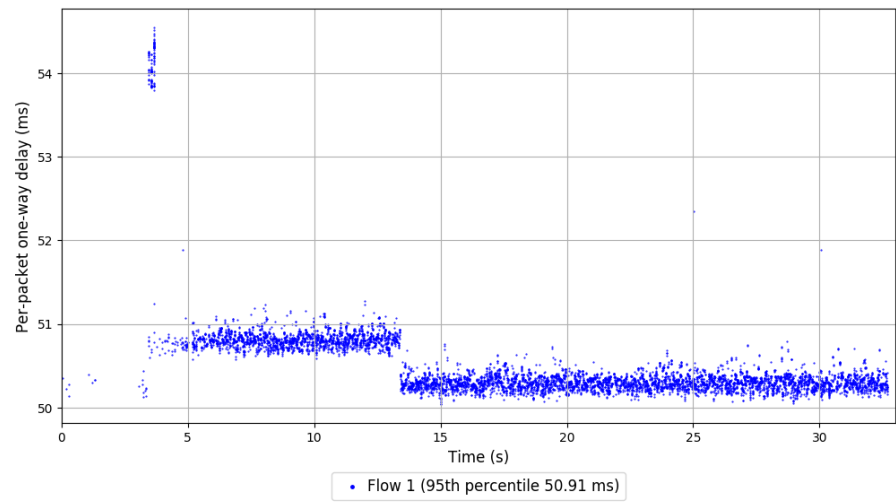
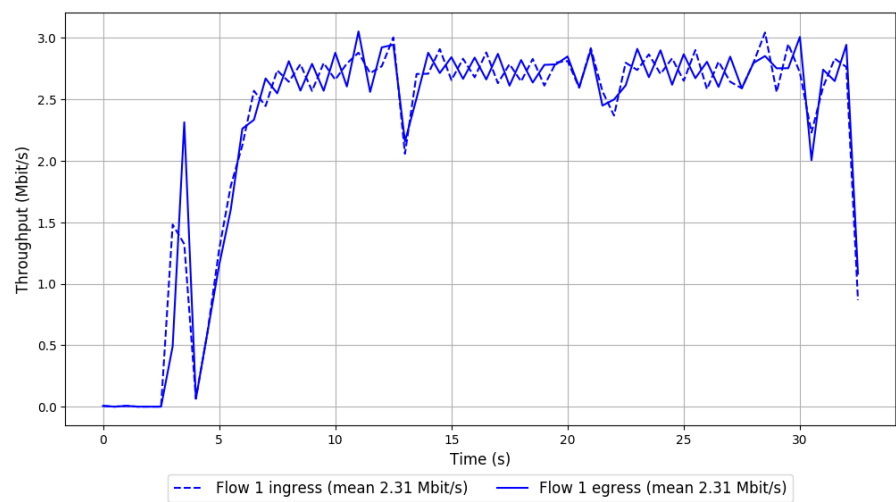
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 50.906 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-20 03:26:42

End at: 2018-02-20 03:27:12

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 54.279 ms

Loss rate: 0.00%

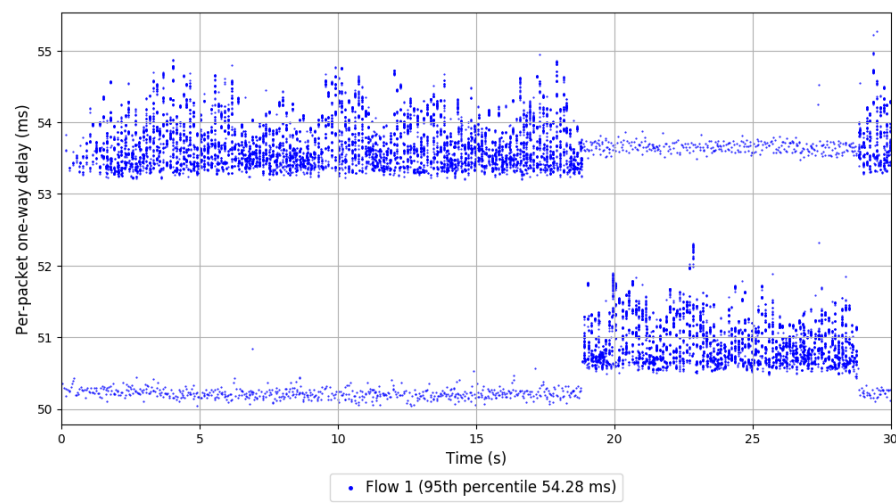
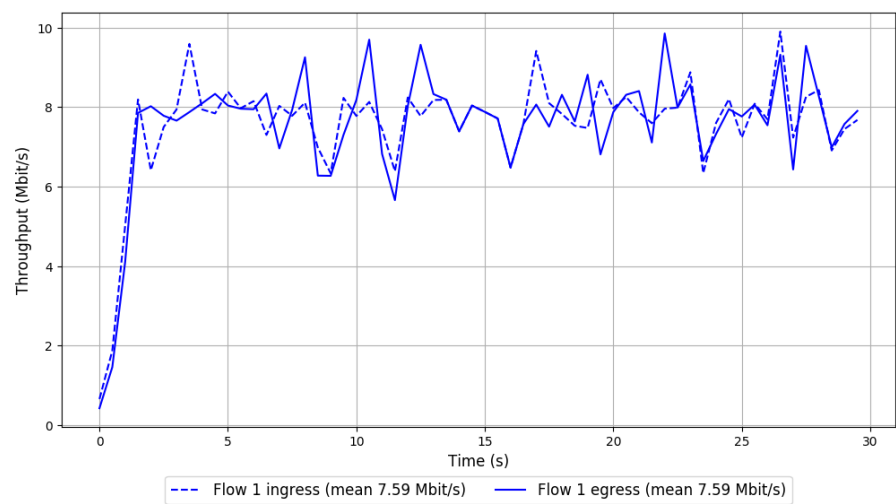
-- Flow 1:

Average throughput: 7.59 Mbit/s

95th percentile per-packet one-way delay: 54.279 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-20 03:41:29

End at: 2018-02-20 03:41:59

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 54.157 ms

Loss rate: 0.00%

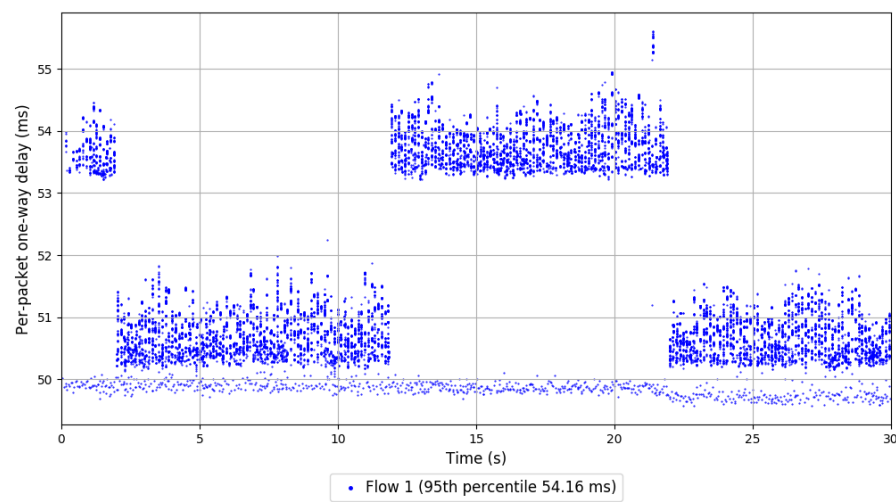
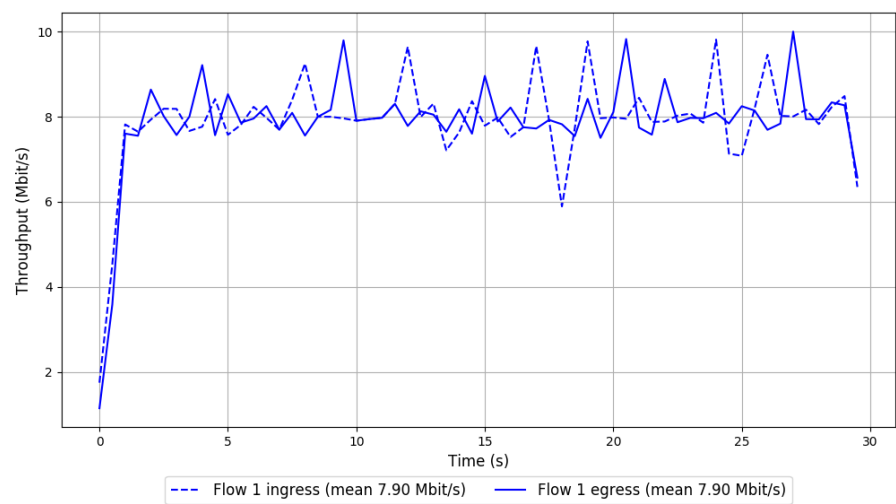
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 54.157 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-20 03:55:57

End at: 2018-02-20 03:56:27

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 54.231 ms

Loss rate: 0.00%

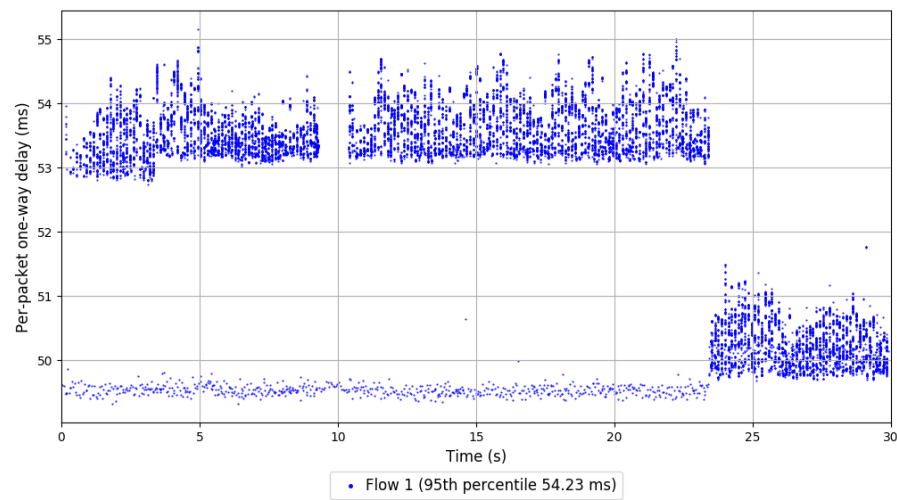
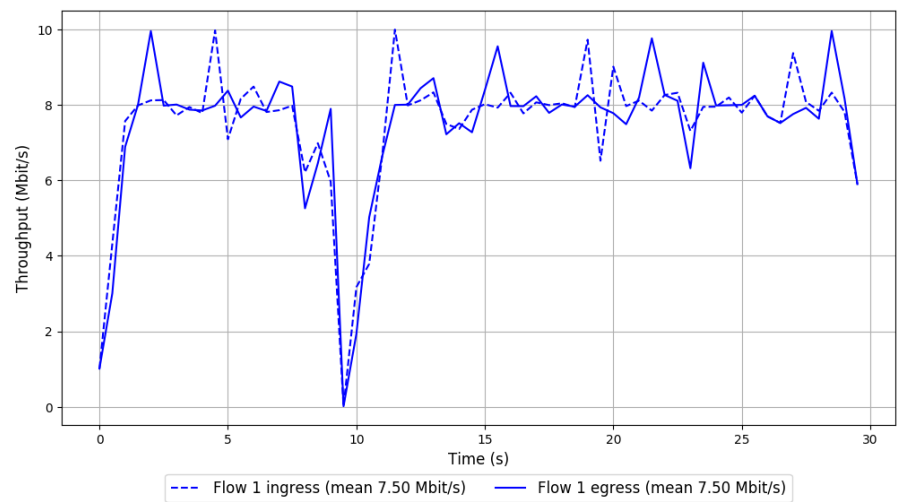
-- Flow 1:

Average throughput: 7.50 Mbit/s

95th percentile per-packet one-way delay: 54.231 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-20 04:10:21

End at: 2018-02-20 04:10:51

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 53.540 ms

Loss rate: 0.00%

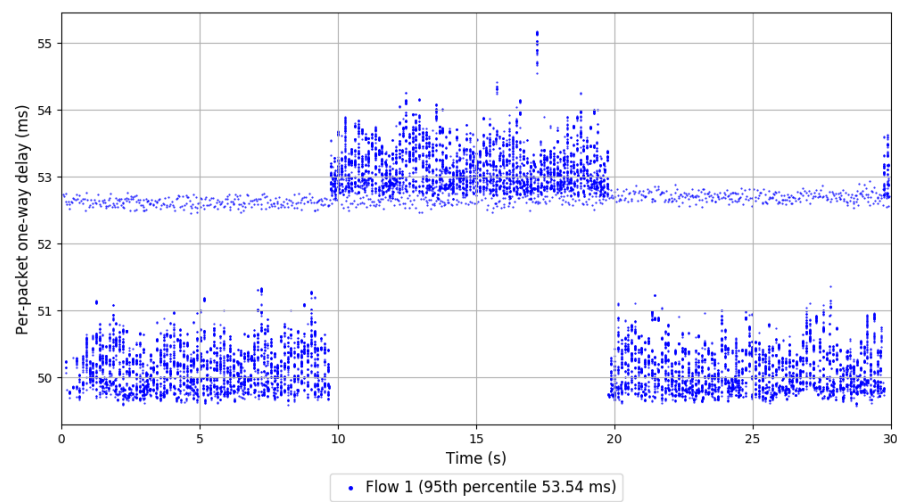
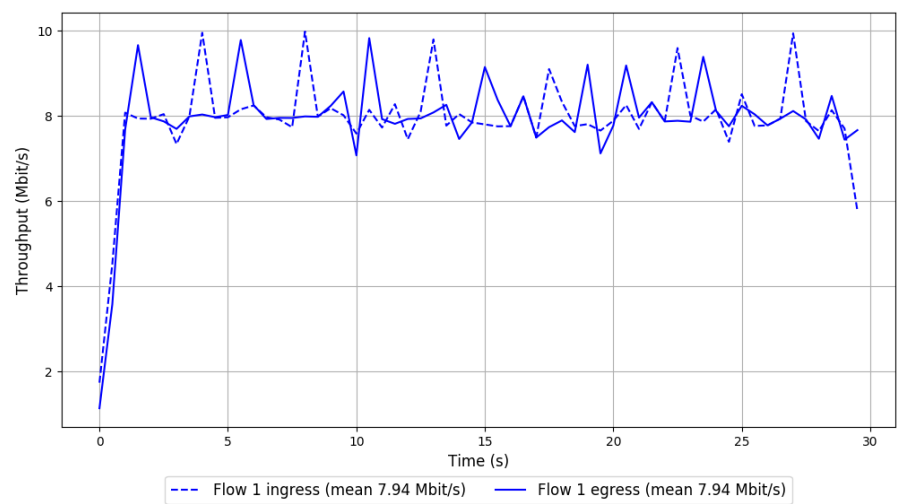
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 53.540 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-20 04:25:17

End at: 2018-02-20 04:25:47

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

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

Loss rate: 0.00%

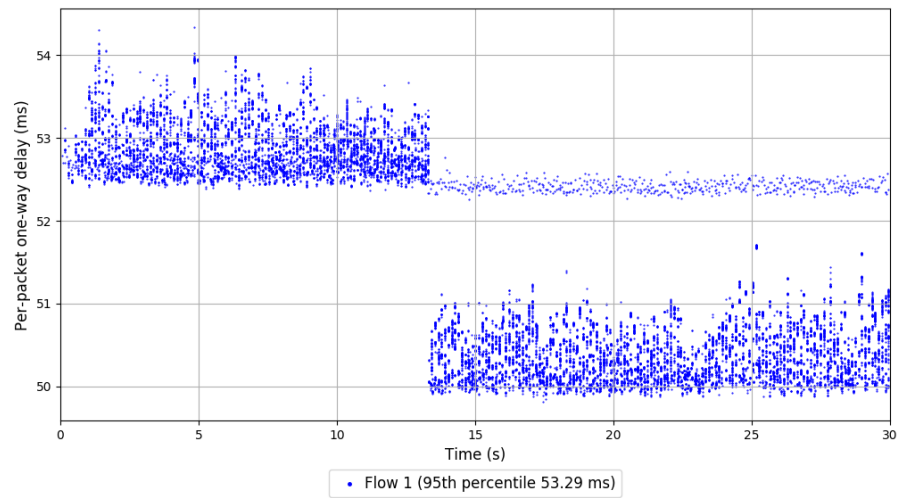
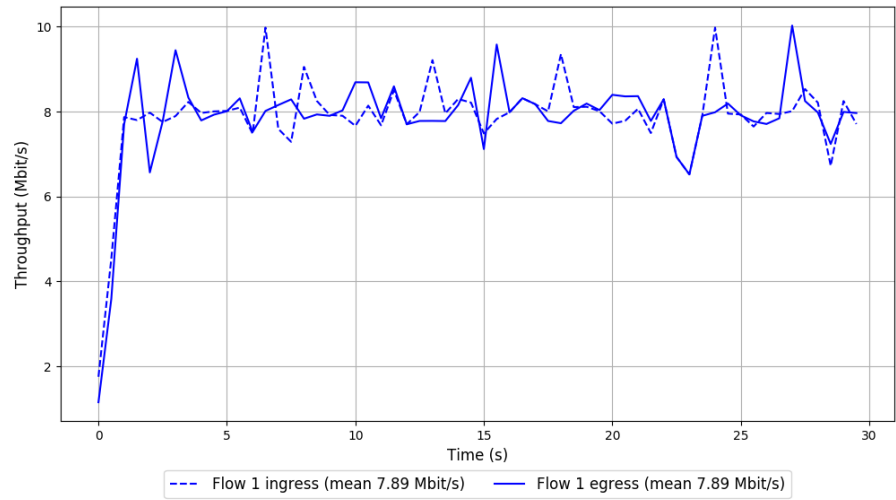
-- Flow 1:

Average throughput: 7.89 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-20 04:39:27

End at: 2018-02-20 04:39:57

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 50.991 ms

Loss rate: 0.00%

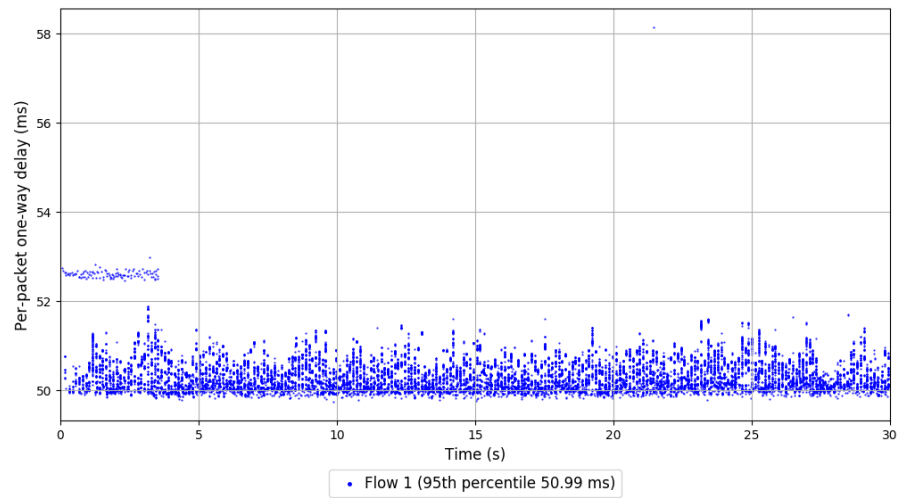
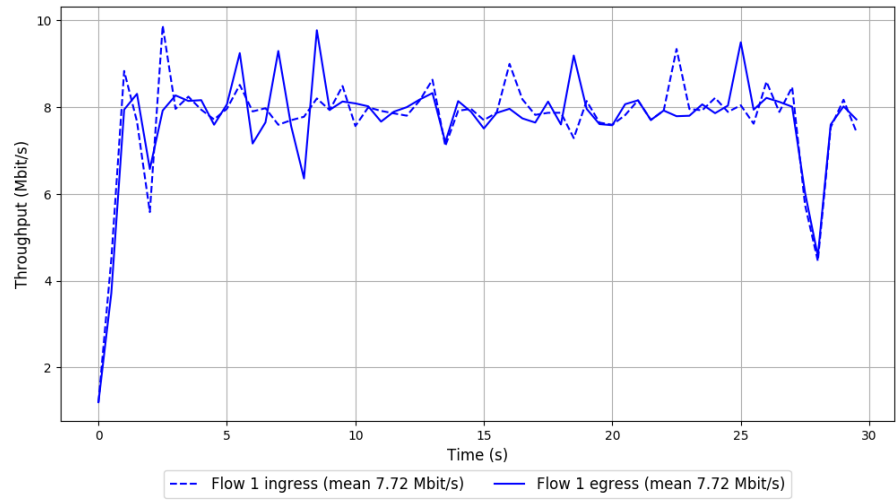
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 50.991 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-20 04:53:55

End at: 2018-02-20 04:54:25

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 53.904 ms

Loss rate: 0.00%

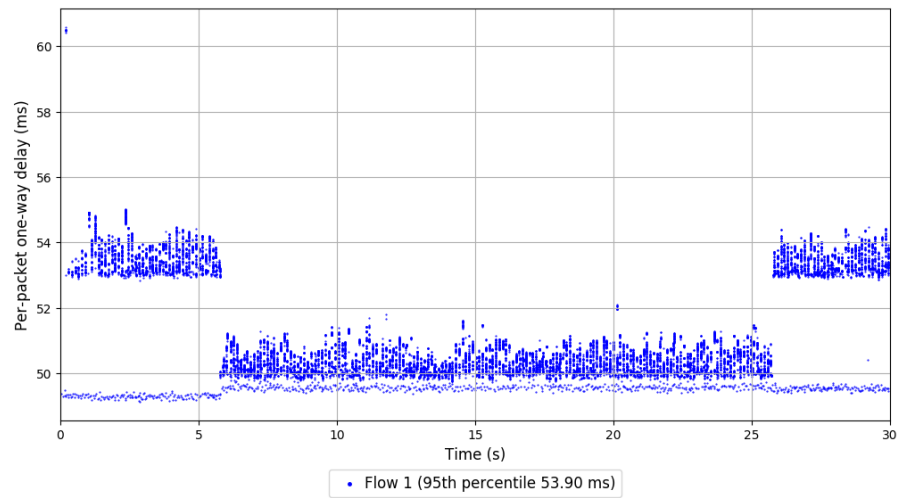
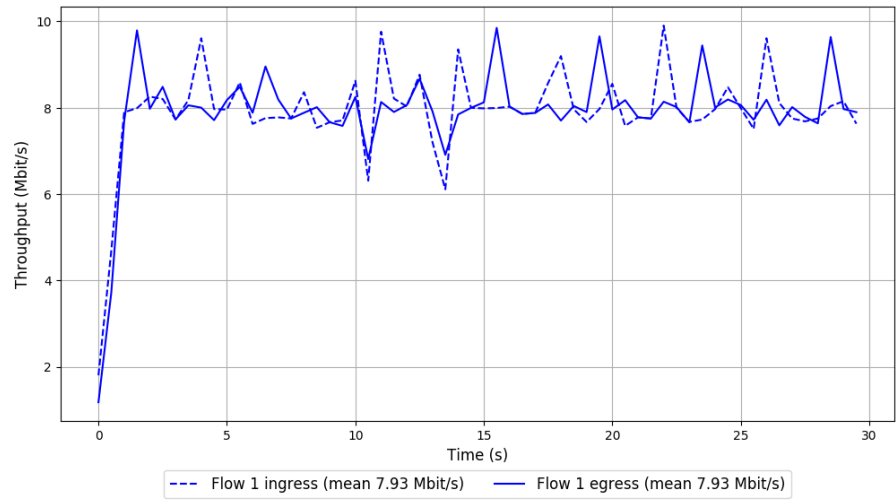
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 53.904 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-20 05:08:16

End at: 2018-02-20 05:08:46

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 53.944 ms

Loss rate: 0.00%

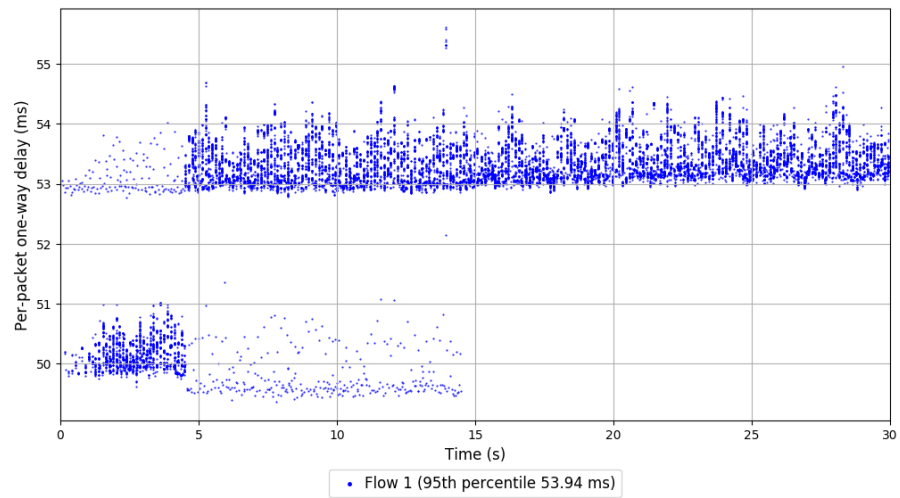
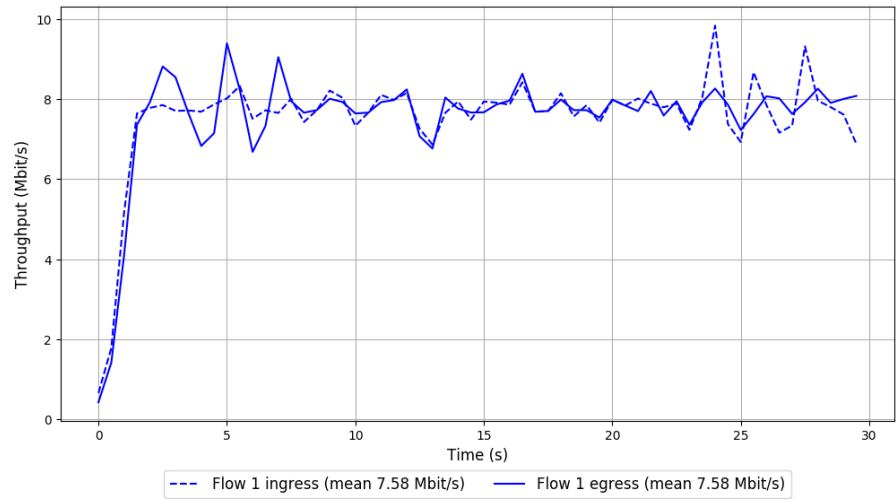
-- Flow 1:

Average throughput: 7.58 Mbit/s

95th percentile per-packet one-way delay: 53.944 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-20 05:22:51

End at: 2018-02-20 05:23:21

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.369 ms

Loss rate: 0.00%

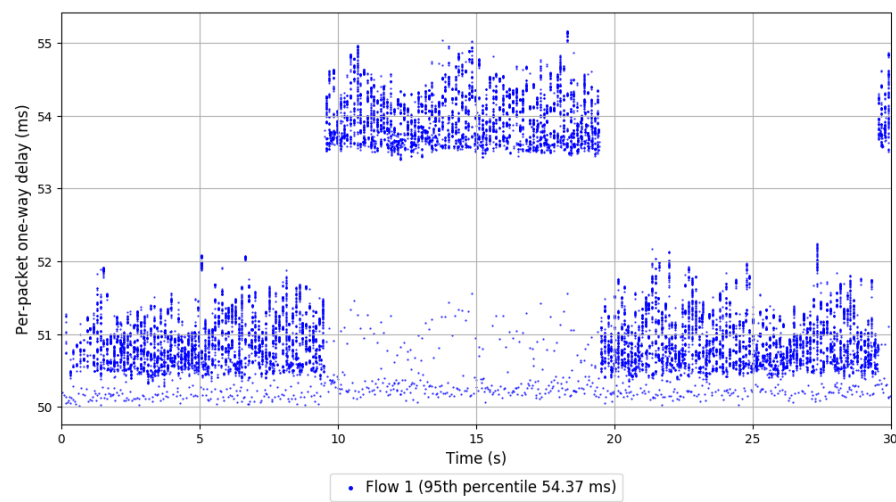
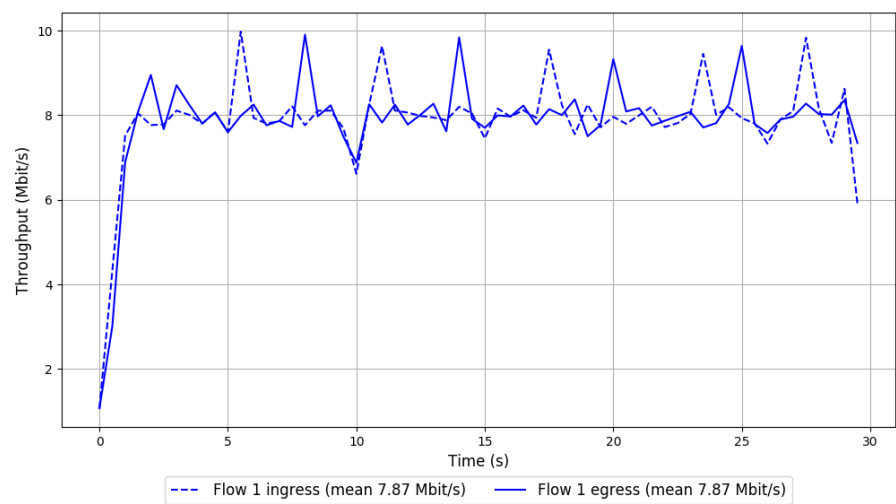
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 54.369 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-20 05:37:15

End at: 2018-02-20 05:37:45

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.896 ms

Loss rate: 0.00%

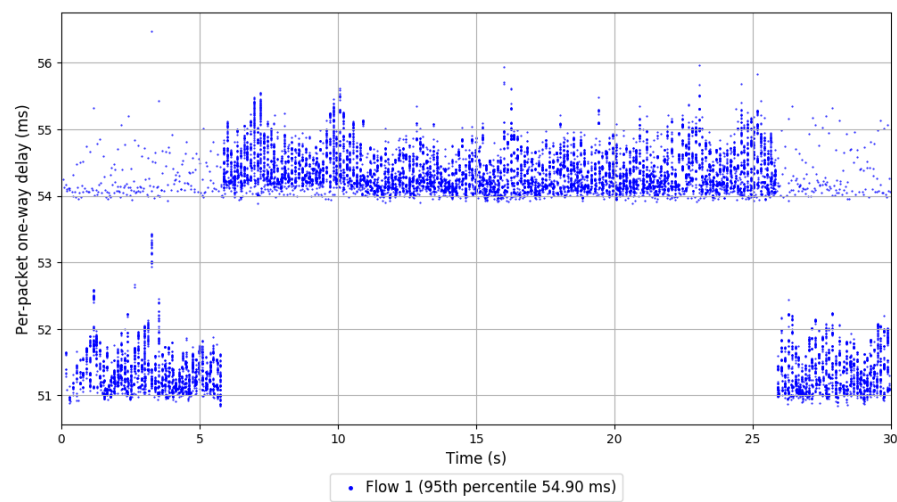
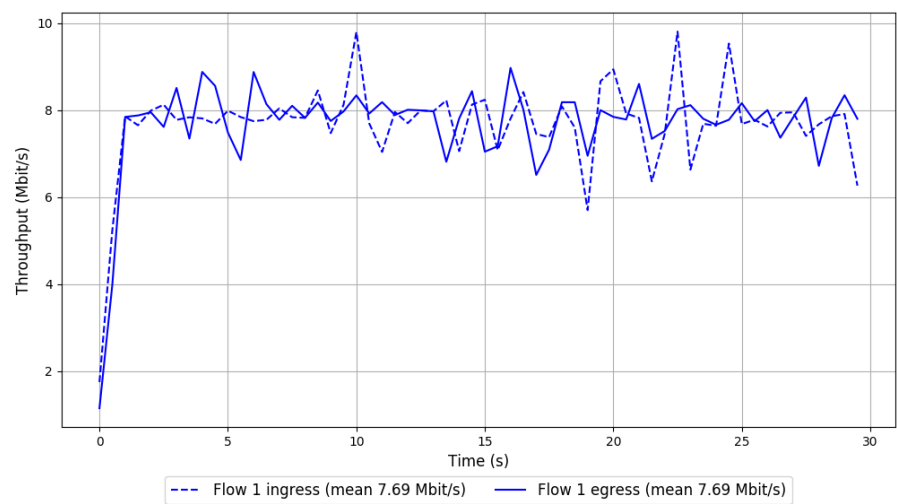
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.896 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

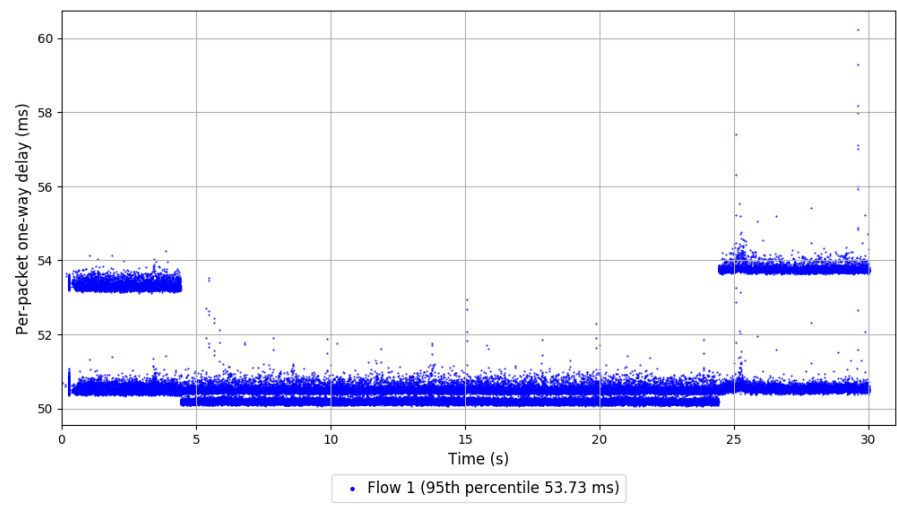
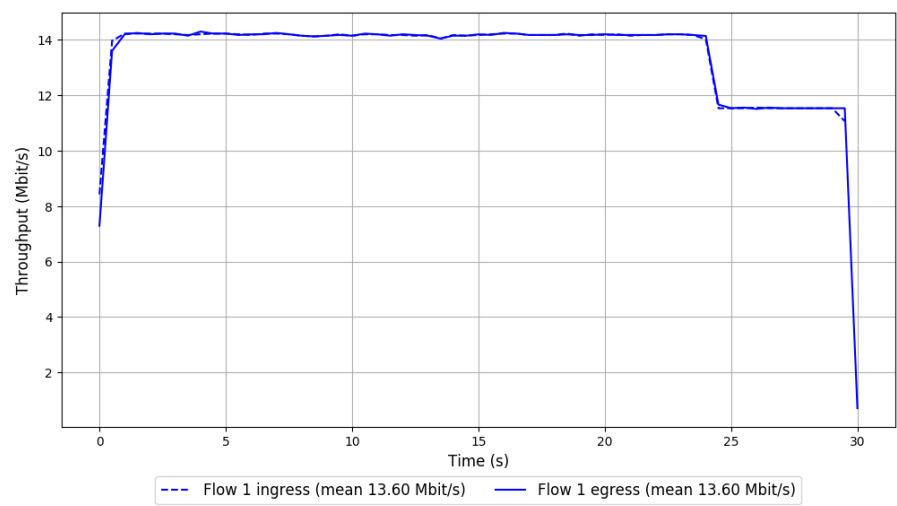


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-20 03:21:36
End at: 2018-02-20 03:22:06

# Below is generated by plot.py at 2018-02-20 07:54:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 13.60 Mbit/s
95th percentile per-packet one-way delay: 53.734 ms
Loss rate: 0.00%
```


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

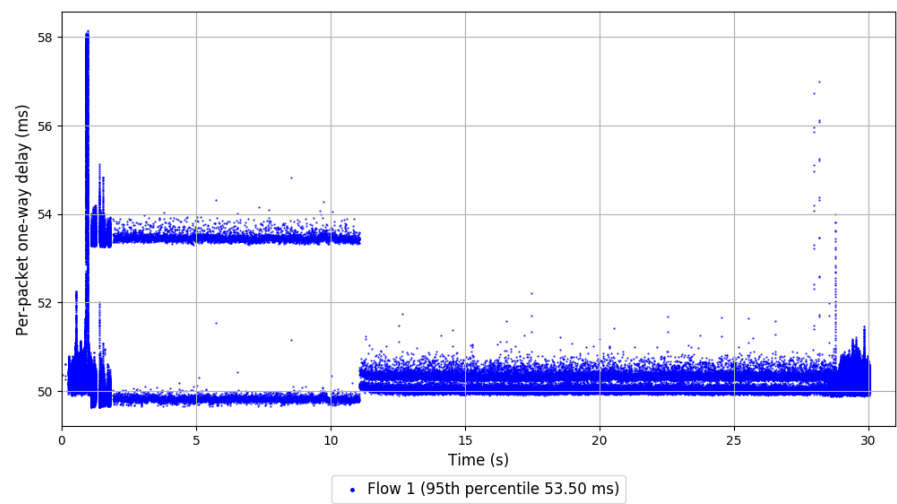
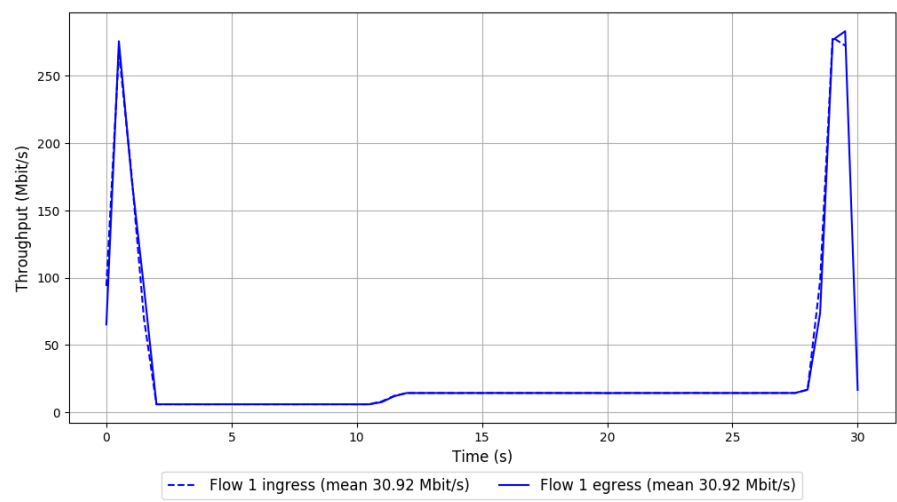


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-20 03:36:10
End at: 2018-02-20 03:36:40

# Below is generated by plot.py at 2018-02-20 07:54:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.92 Mbit/s
95th percentile per-packet one-way delay: 53.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 30.92 Mbit/s
95th percentile per-packet one-way delay: 53.503 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-20 03:50:56

End at: 2018-02-20 03:51:26

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.59 Mbit/s

95th percentile per-packet one-way delay: 54.310 ms

Loss rate: 0.00%

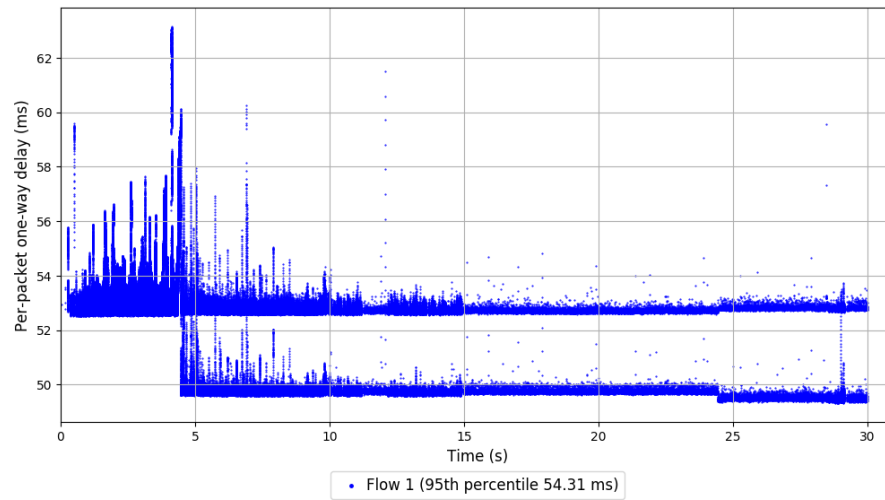
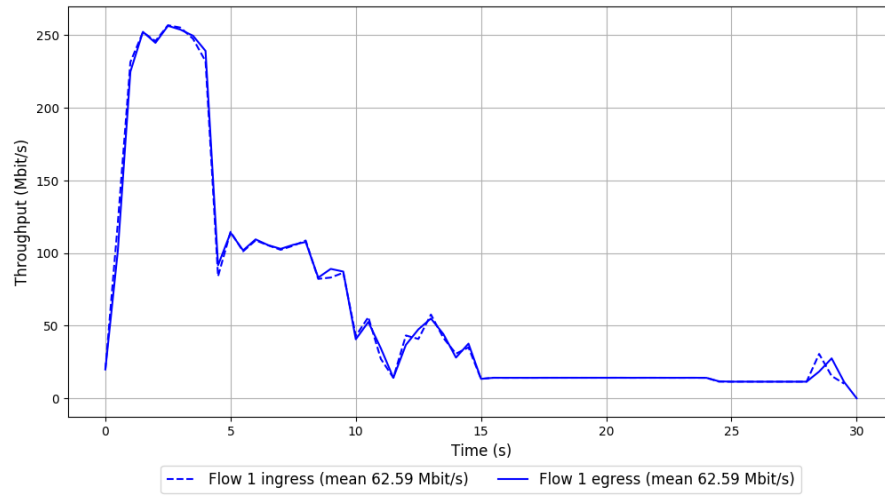
-- Flow 1:

Average throughput: 62.59 Mbit/s

95th percentile per-packet one-way delay: 54.310 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-20 04:05:26

End at: 2018-02-20 04:05:56

Below is generated by plot.py at 2018-02-20 07:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.73 Mbit/s

95th percentile per-packet one-way delay: 52.883 ms

Loss rate: 0.00%

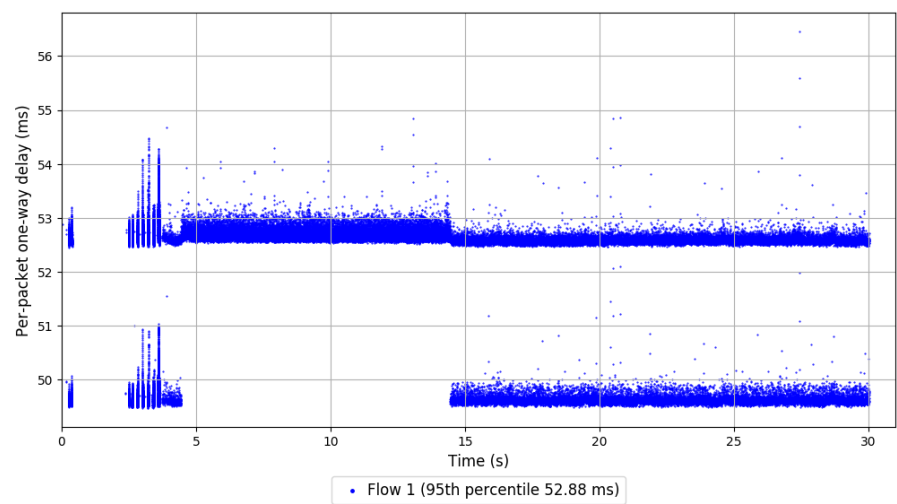
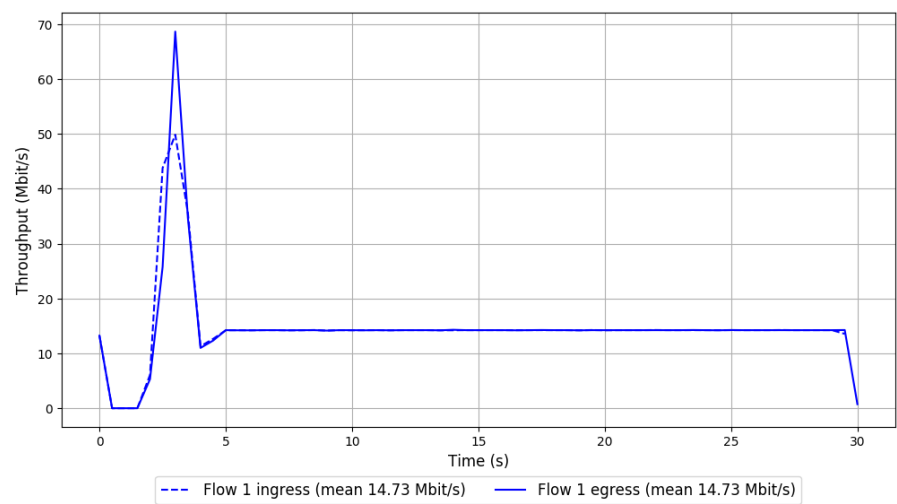
-- Flow 1:

Average throughput: 14.73 Mbit/s

95th percentile per-packet one-way delay: 52.883 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-20 04:20:00

End at: 2018-02-20 04:20:30

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.47 Mbit/s

95th percentile per-packet one-way delay: 50.951 ms

Loss rate: 0.00%

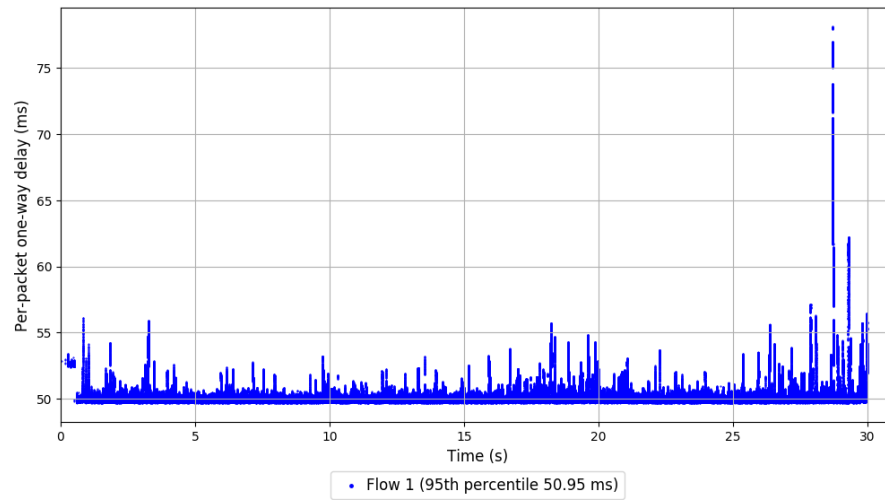
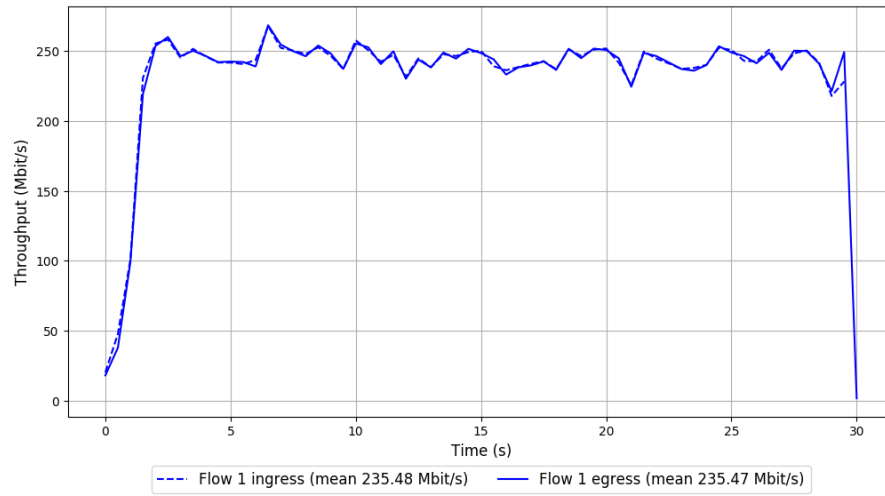
-- Flow 1:

Average throughput: 235.47 Mbit/s

95th percentile per-packet one-way delay: 50.951 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-20 04:34:36

End at: 2018-02-20 04:35:06

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 17.08 Mbit/s

95th percentile per-packet one-way delay: 52.728 ms

Loss rate: 0.00%

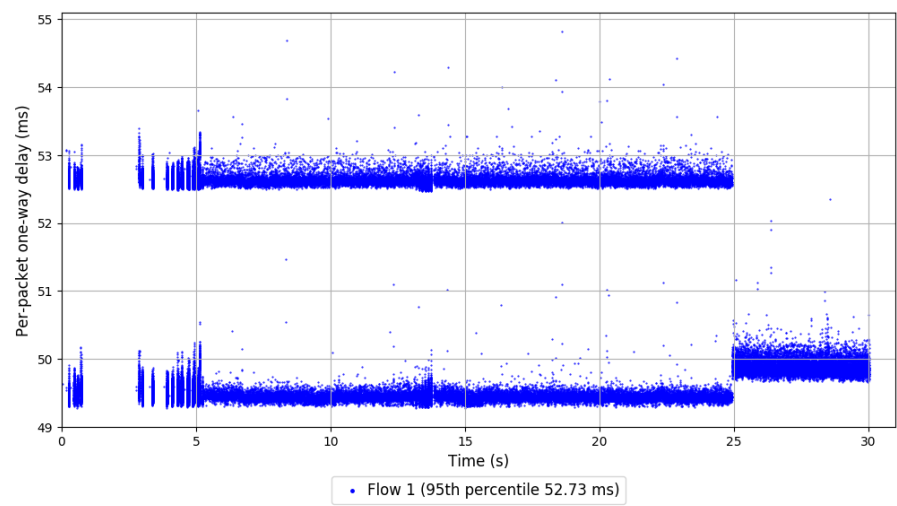
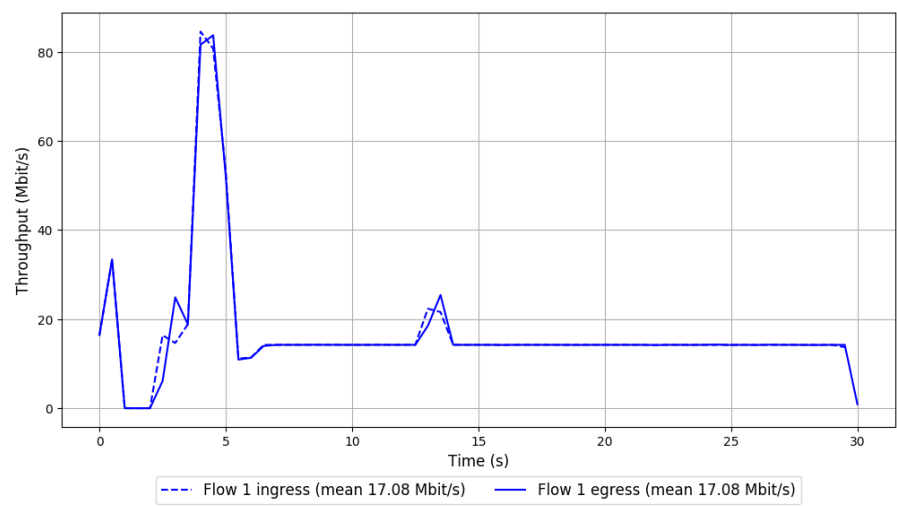
-- Flow 1:

Average throughput: 17.08 Mbit/s

95th percentile per-packet one-way delay: 52.728 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-20 04:48:55

End at: 2018-02-20 04:49:25

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.01 Mbit/s

95th percentile per-packet one-way delay: 52.066 ms

Loss rate: 0.00%

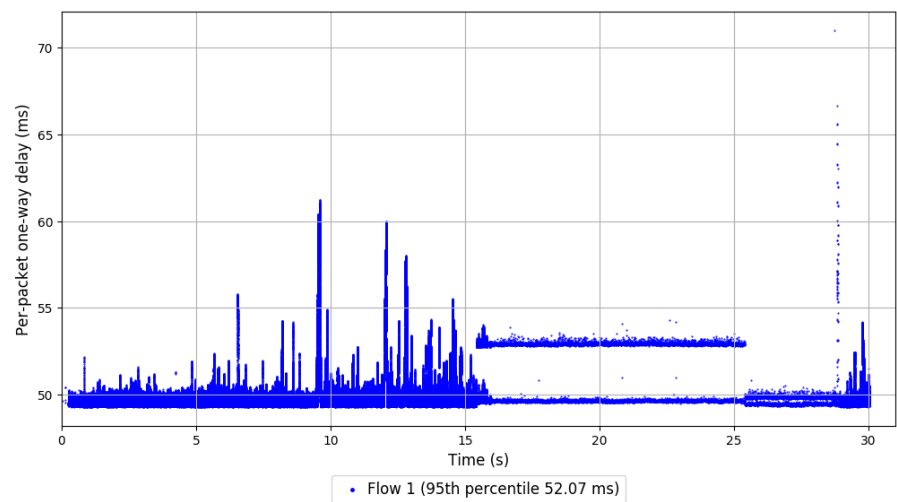
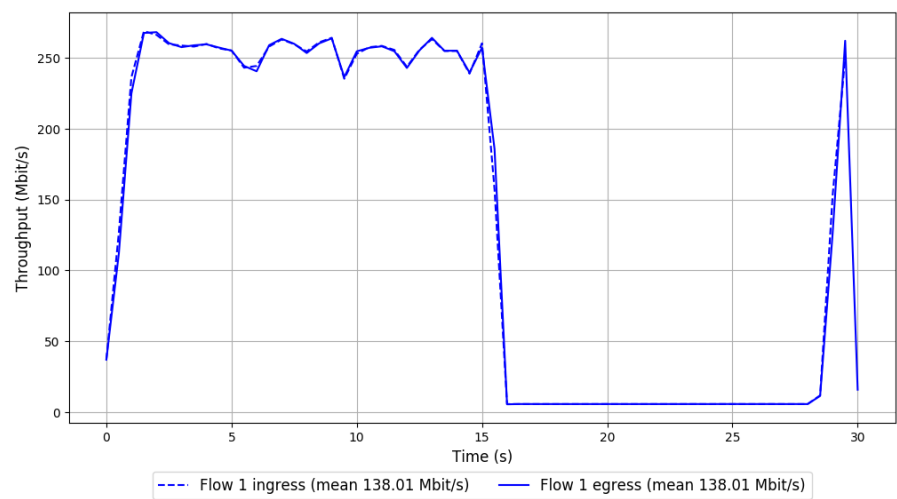
-- Flow 1:

Average throughput: 138.01 Mbit/s

95th percentile per-packet one-way delay: 52.066 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-20 05:03:15

End at: 2018-02-20 05:03:45

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.14 Mbit/s

95th percentile per-packet one-way delay: 53.029 ms

Loss rate: 0.00%

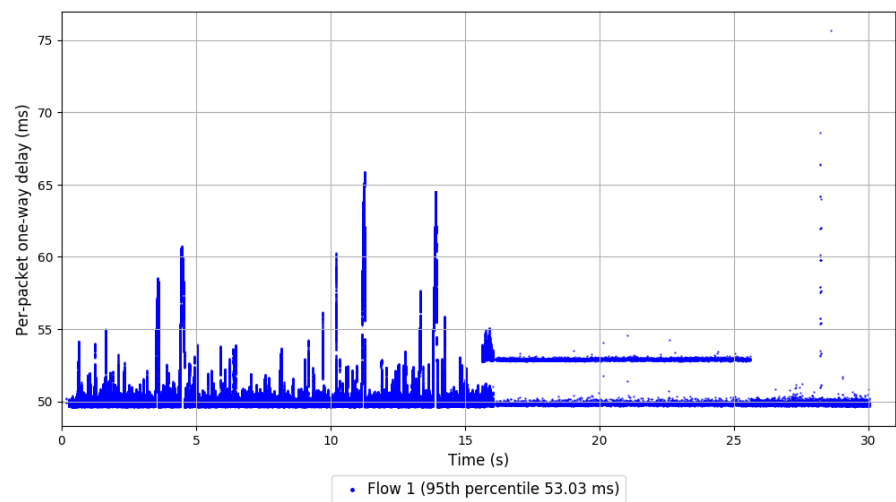
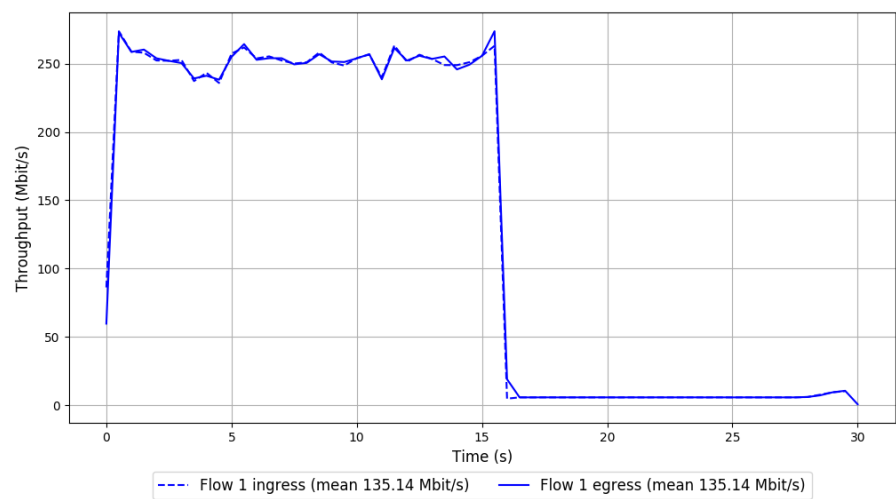
-- Flow 1:

Average throughput: 135.14 Mbit/s

95th percentile per-packet one-way delay: 53.029 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-20 05:17:55

End at: 2018-02-20 05:18:25

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 53.258 ms

Loss rate: 0.00%

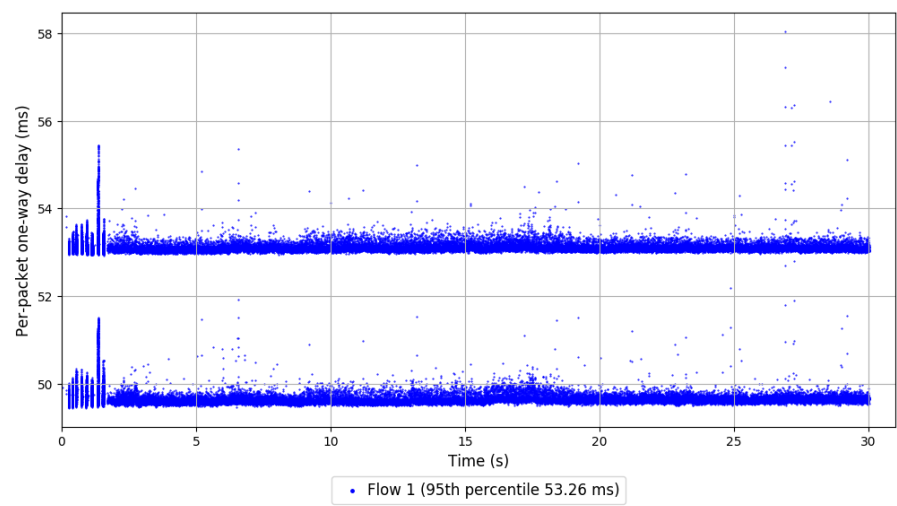
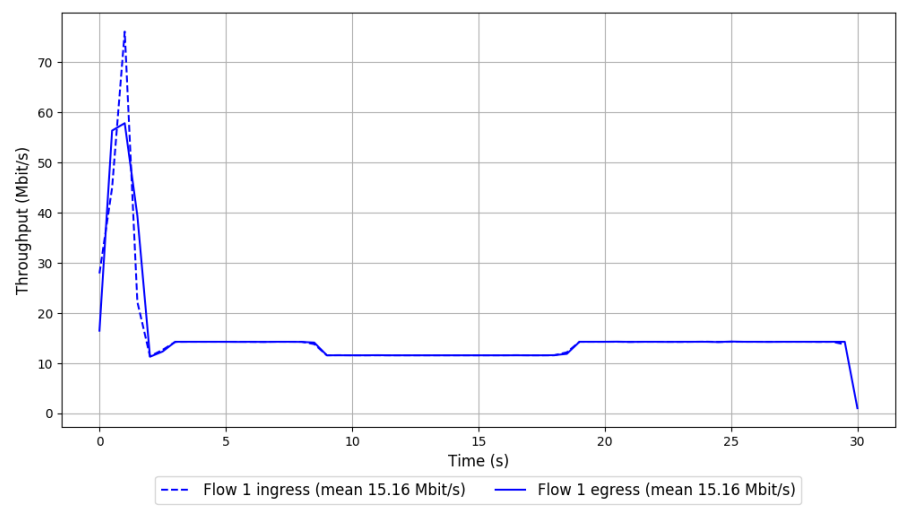
-- Flow 1:

Average throughput: 15.16 Mbit/s

95th percentile per-packet one-way delay: 53.258 ms

Loss rate: 0.00%

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

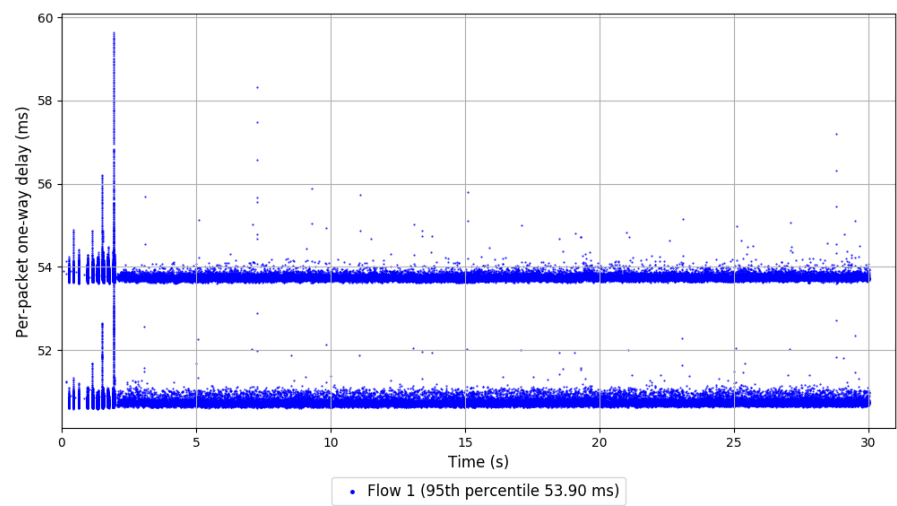
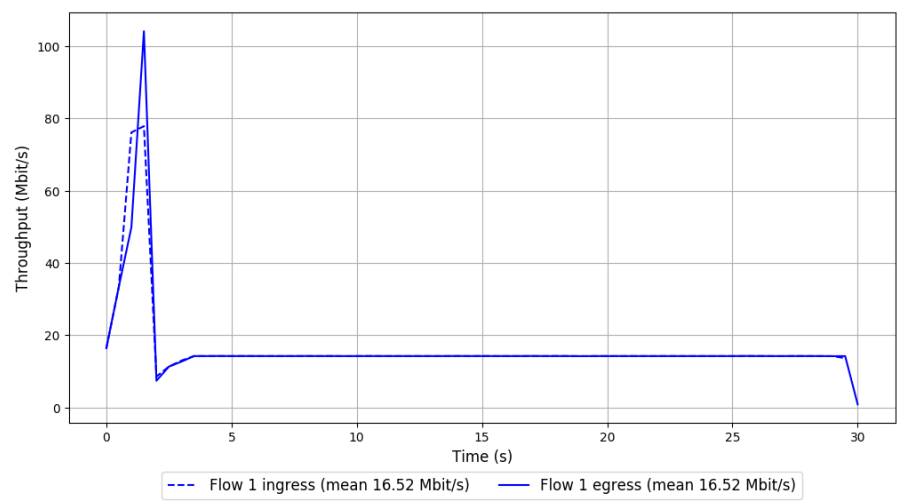


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-20 05:32:17
End at: 2018-02-20 05:32:47

# Below is generated by plot.py at 2018-02-20 07:54:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.52 Mbit/s
95th percentile per-packet one-way delay: 53.899 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 16.52 Mbit/s
95th percentile per-packet one-way delay: 53.899 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-20 03:18:56

End at: 2018-02-20 03:19:26

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 54.459 ms

Loss rate: 0.00%

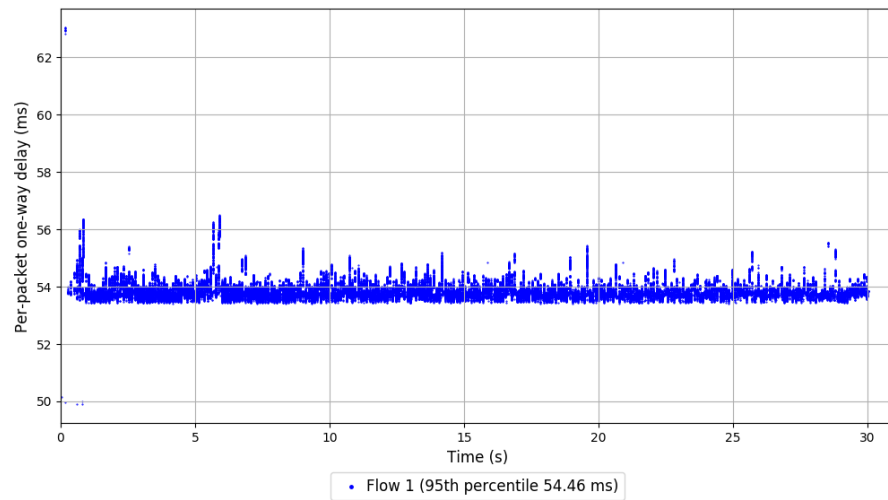
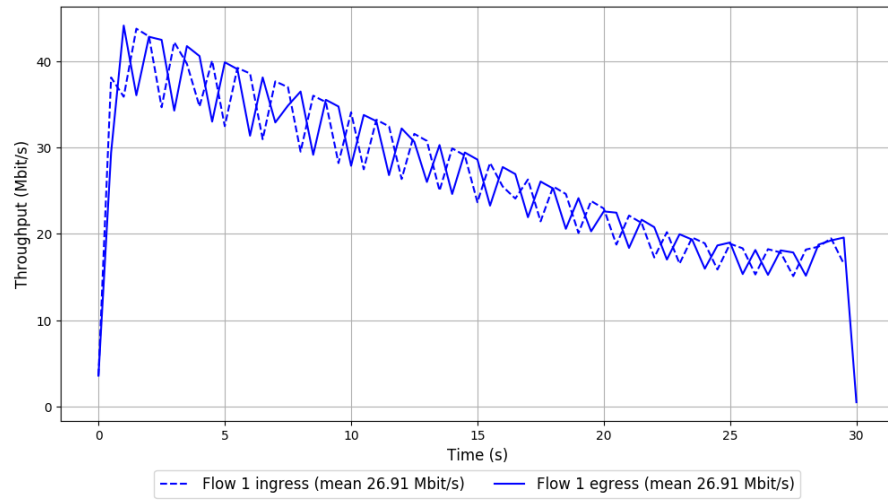
-- Flow 1:

Average throughput: 26.91 Mbit/s

95th percentile per-packet one-way delay: 54.459 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-20 03:33:22

End at: 2018-02-20 03:33:52

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.57 Mbit/s

95th percentile per-packet one-way delay: 60.157 ms

Loss rate: 0.00%

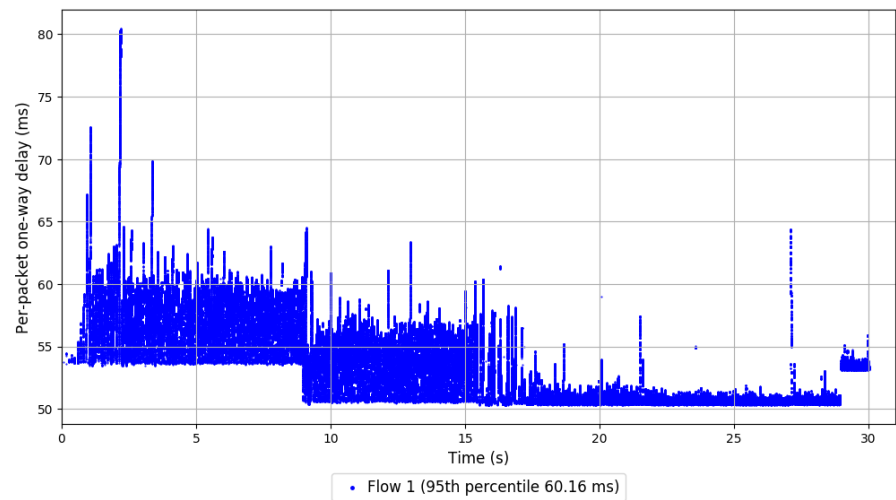
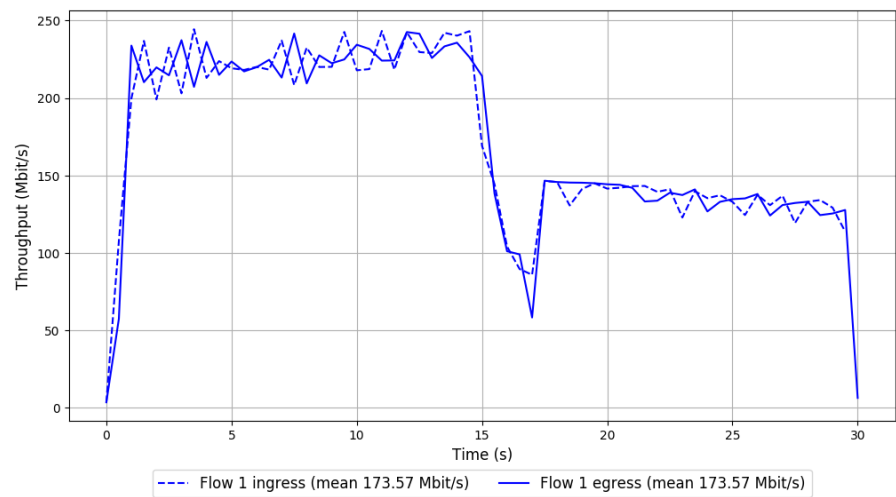
-- Flow 1:

Average throughput: 173.57 Mbit/s

95th percentile per-packet one-way delay: 60.157 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-20 03:48:14

End at: 2018-02-20 03:48:44

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.00%

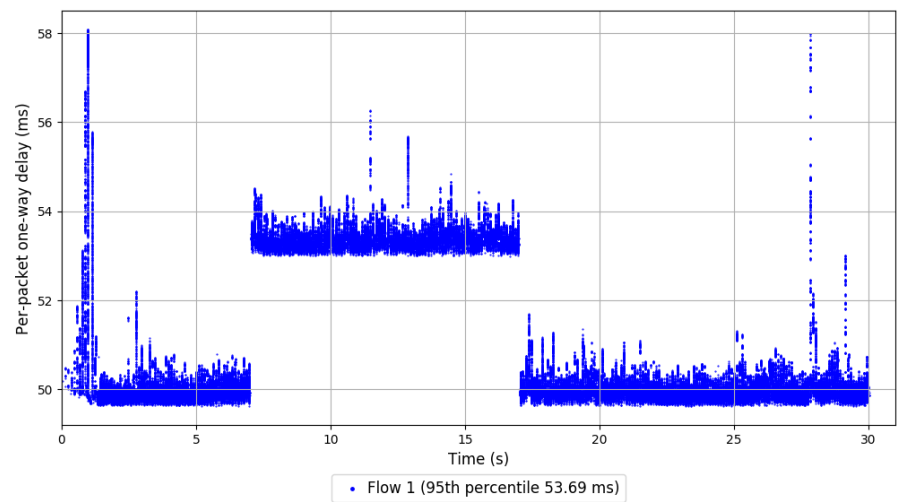
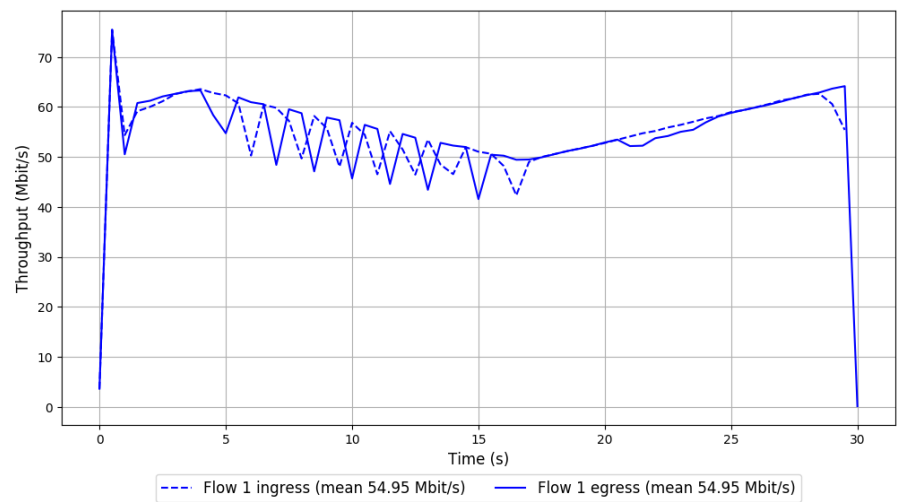
-- Flow 1:

Average throughput: 54.95 Mbit/s

95th percentile per-packet one-way delay: 53.687 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-20 04:02:41

End at: 2018-02-20 04:03:11

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.12 Mbit/s

95th percentile per-packet one-way delay: 53.912 ms

Loss rate: 0.00%

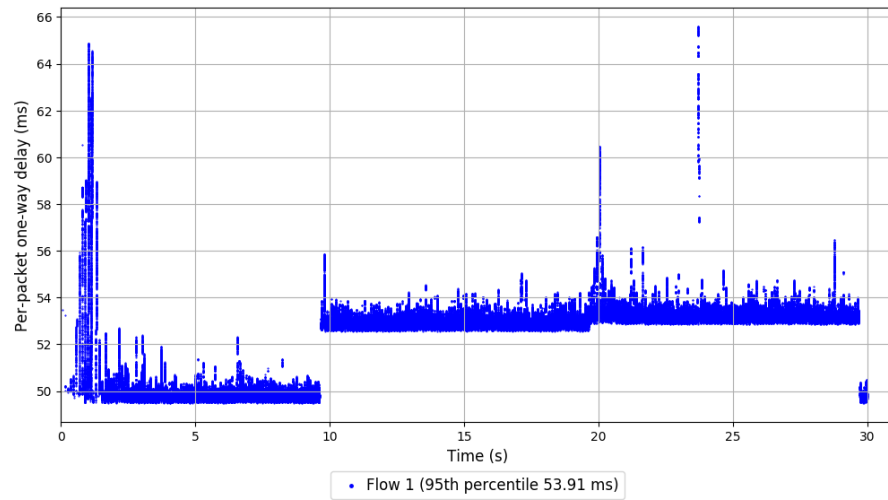
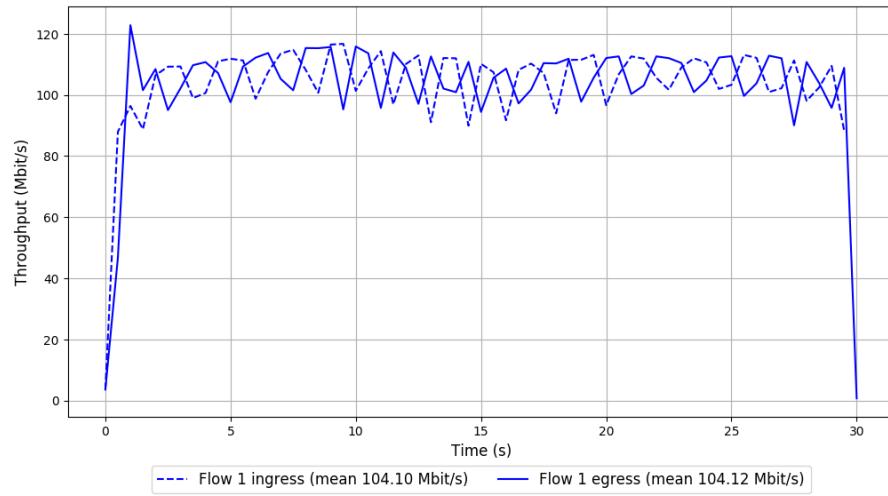
-- Flow 1:

Average throughput: 104.12 Mbit/s

95th percentile per-packet one-way delay: 53.912 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-20 04:17:10

End at: 2018-02-20 04:17:40

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.06 Mbit/s

95th percentile per-packet one-way delay: 58.908 ms

Loss rate: 0.00%

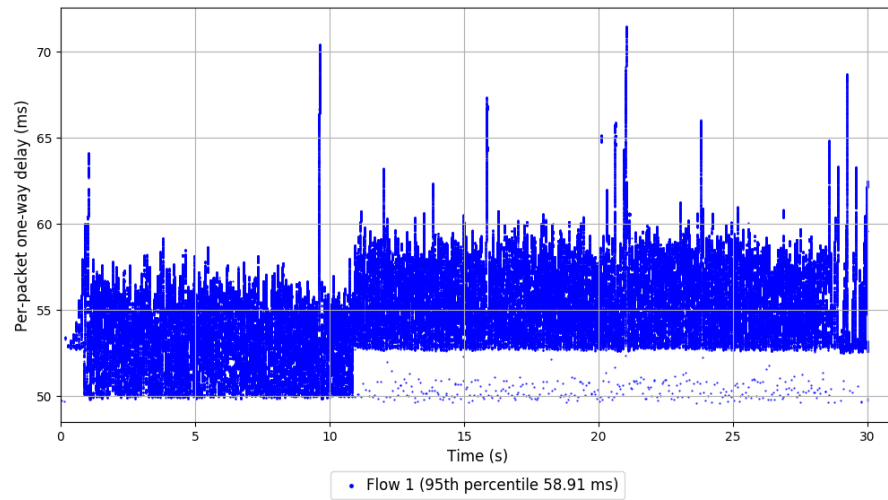
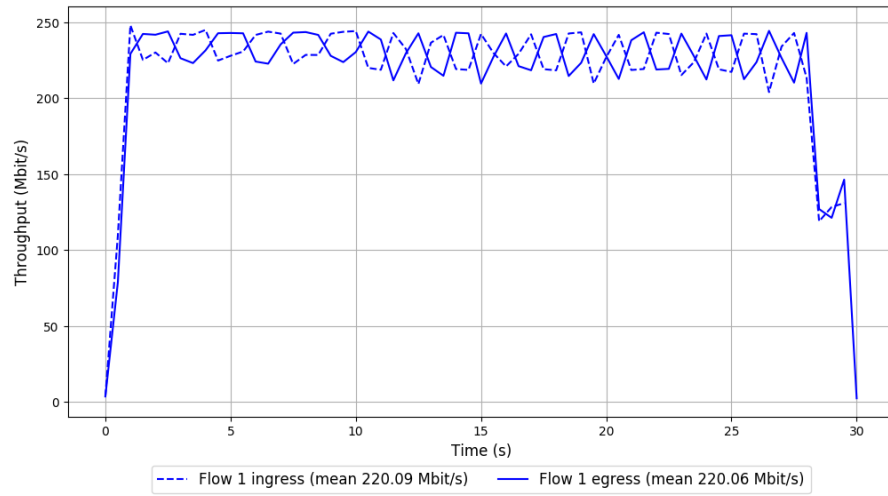
-- Flow 1:

Average throughput: 220.06 Mbit/s

95th percentile per-packet one-way delay: 58.908 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-20 04:31:54

End at: 2018-02-20 04:32:24

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.33 Mbit/s

95th percentile per-packet one-way delay: 52.949 ms

Loss rate: 0.00%

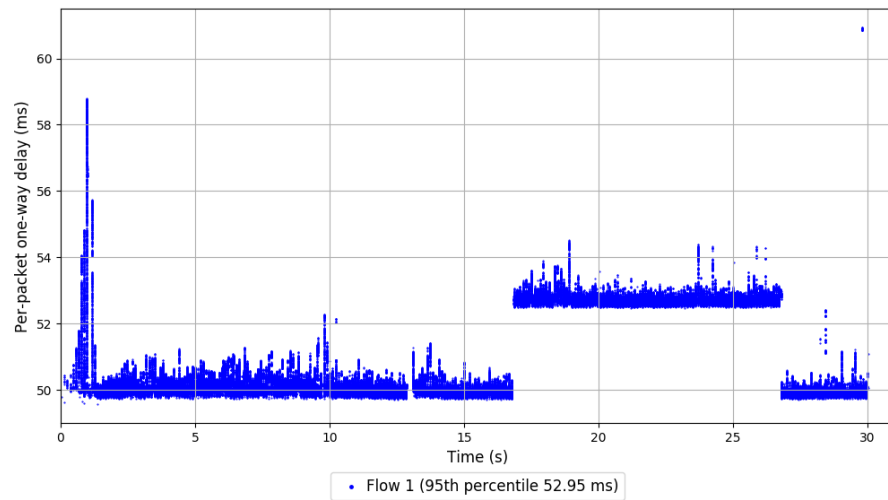
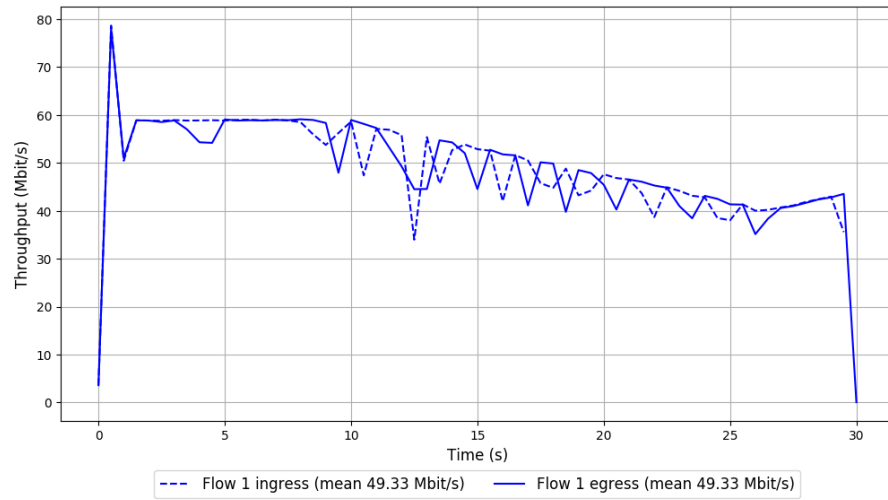
-- Flow 1:

Average throughput: 49.33 Mbit/s

95th percentile per-packet one-way delay: 52.949 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-20 04:46:12

End at: 2018-02-20 04:46:42

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.47 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.00%

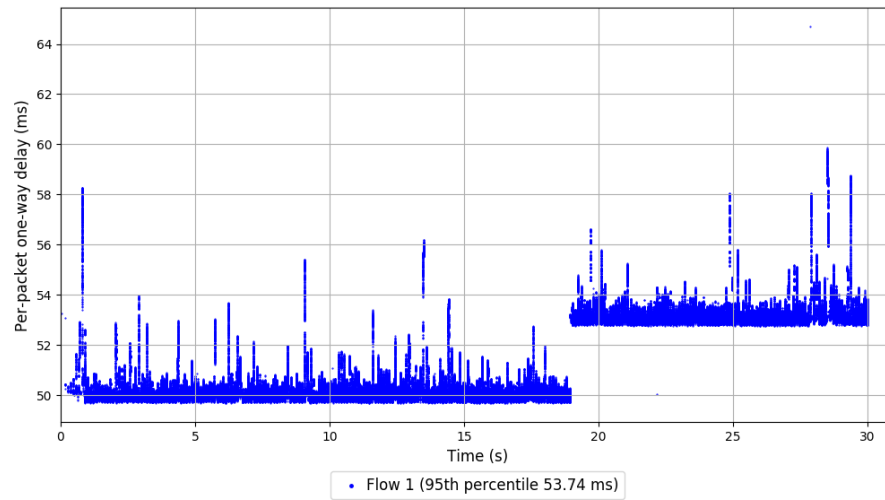
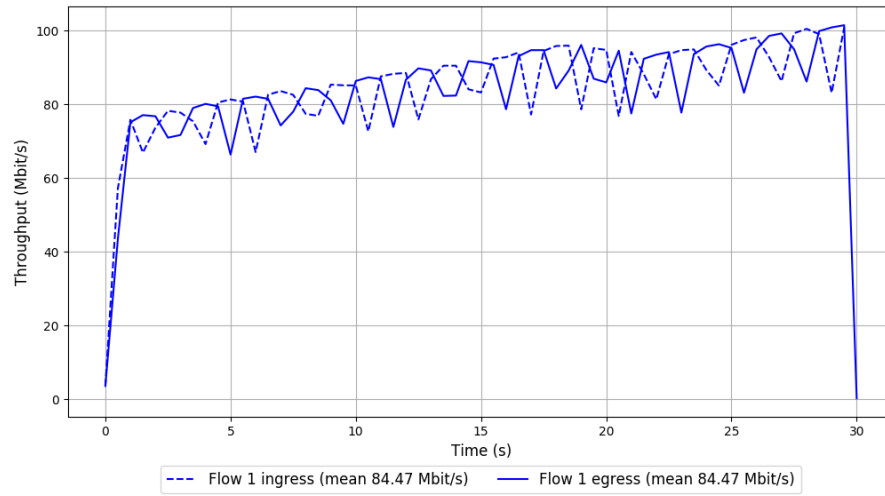
-- Flow 1:

Average throughput: 84.47 Mbit/s

95th percentile per-packet one-way delay: 53.740 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-20 05:00:29

End at: 2018-02-20 05:00:59

Below is generated by plot.py at 2018-02-20 07:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 126.30 Mbit/s

95th percentile per-packet one-way delay: 53.386 ms

Loss rate: 0.00%

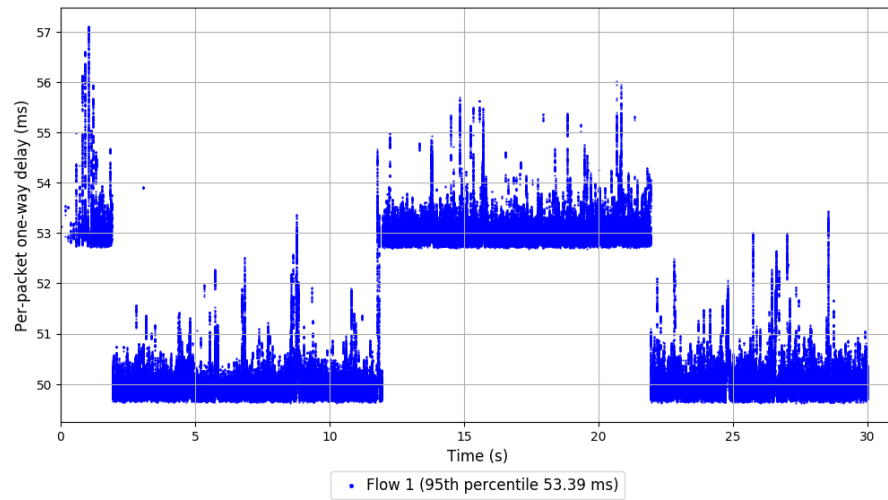
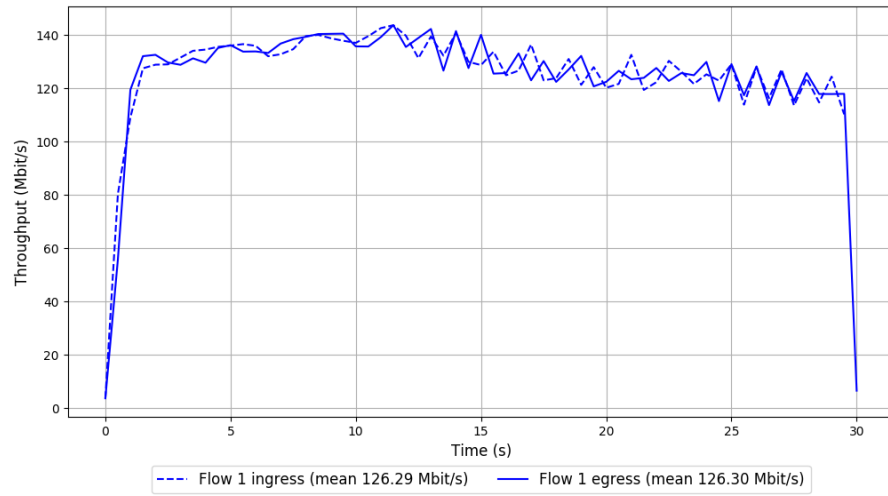
-- Flow 1:

Average throughput: 126.30 Mbit/s

95th percentile per-packet one-way delay: 53.386 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-20 05:15:05

End at: 2018-02-20 05:15:35

Below is generated by plot.py at 2018-02-20 07:55:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.41 Mbit/s

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

Loss rate: 0.01%

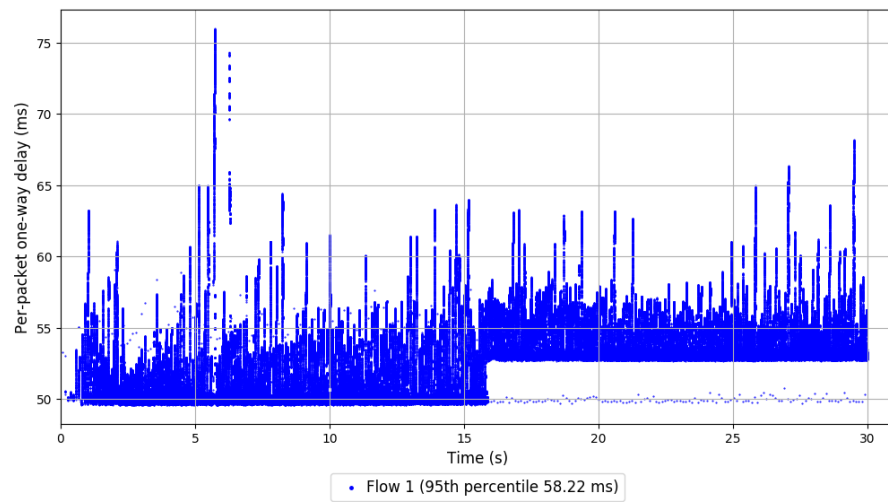
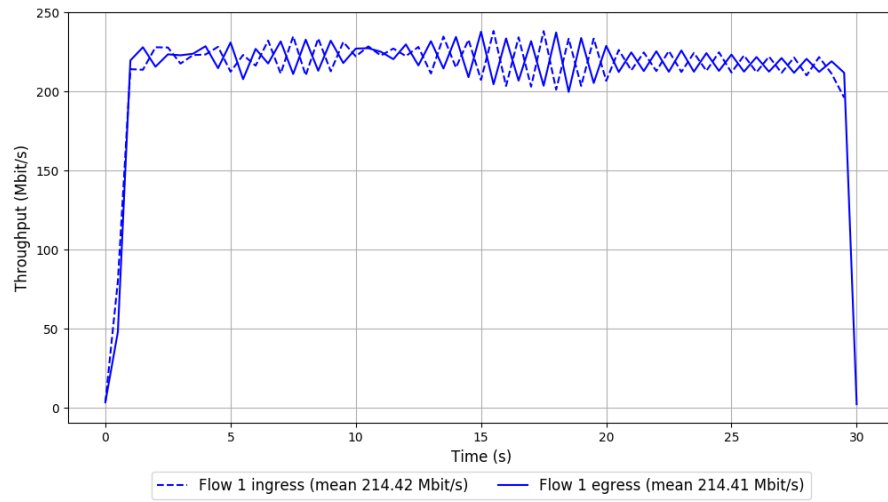
-- Flow 1:

Average throughput: 214.41 Mbit/s

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

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-20 05:29:32

End at: 2018-02-20 05:30:02

Below is generated by plot.py at 2018-02-20 07:55:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.55 Mbit/s

95th percentile per-packet one-way delay: 55.237 ms

Loss rate: 0.00%

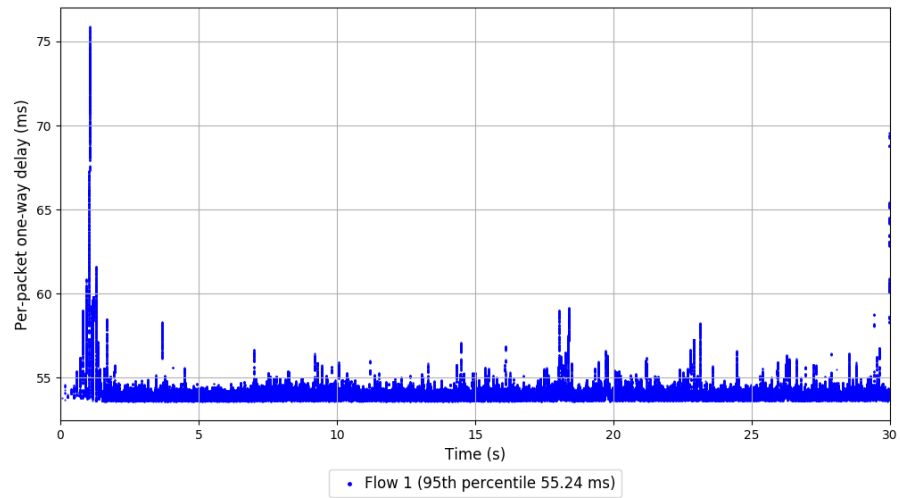
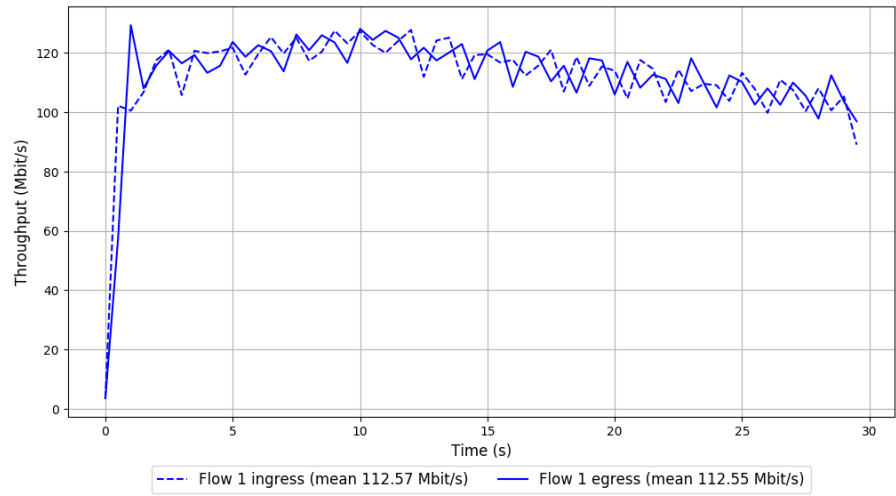
-- Flow 1:

Average throughput: 112.55 Mbit/s

95th percentile per-packet one-way delay: 55.237 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-20 03:16:23

End at: 2018-02-20 03:16:53

Below is generated by plot.py at 2018-02-20 07:57:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.71 Mbit/s

95th percentile per-packet one-way delay: 72.251 ms

Loss rate: 0.06%

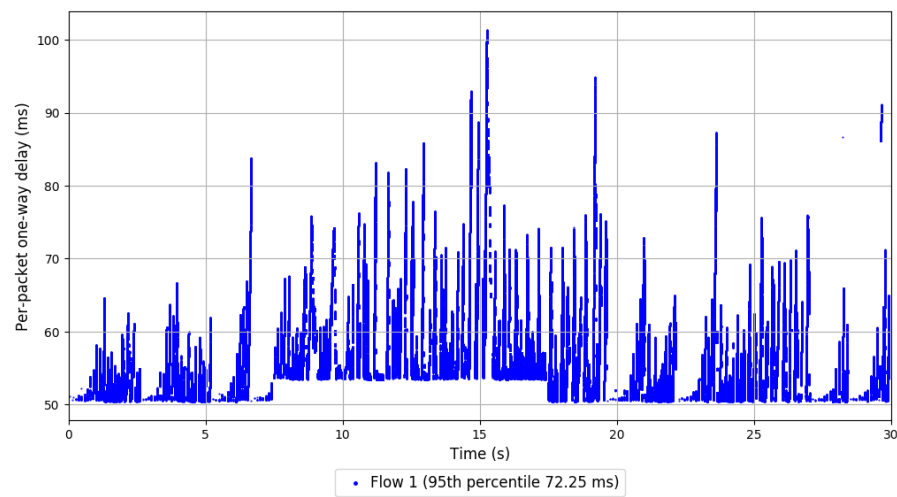
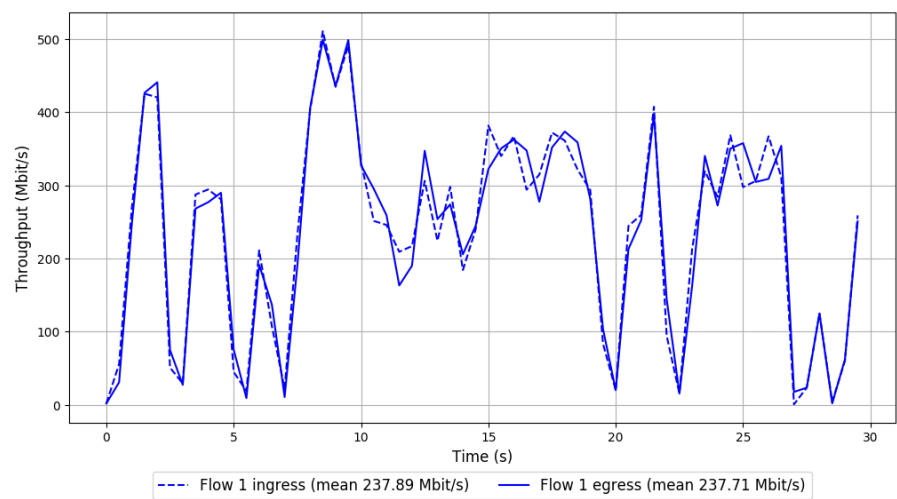
-- Flow 1:

Average throughput: 237.71 Mbit/s

95th percentile per-packet one-way delay: 72.251 ms

Loss rate: 0.06%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-20 03:30:52

End at: 2018-02-20 03:31:22

Below is generated by plot.py at 2018-02-20 07:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.39 Mbit/s

95th percentile per-packet one-way delay: 88.241 ms

Loss rate: 0.41%

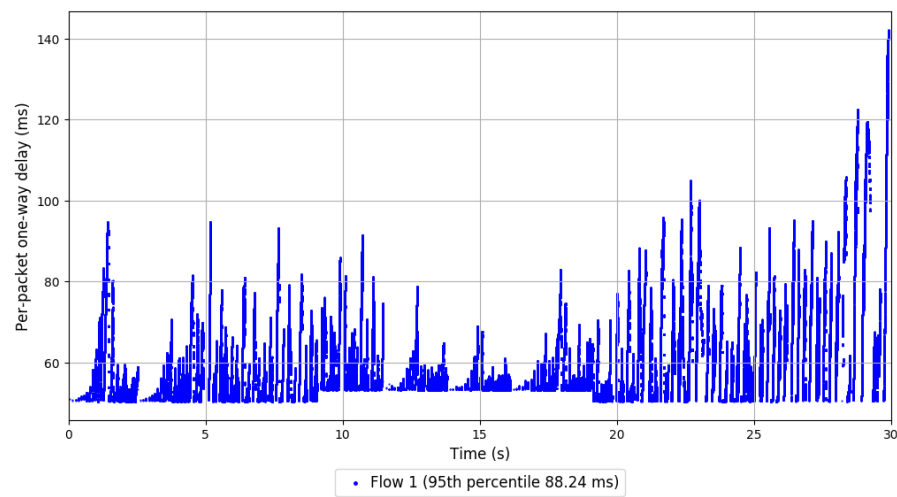
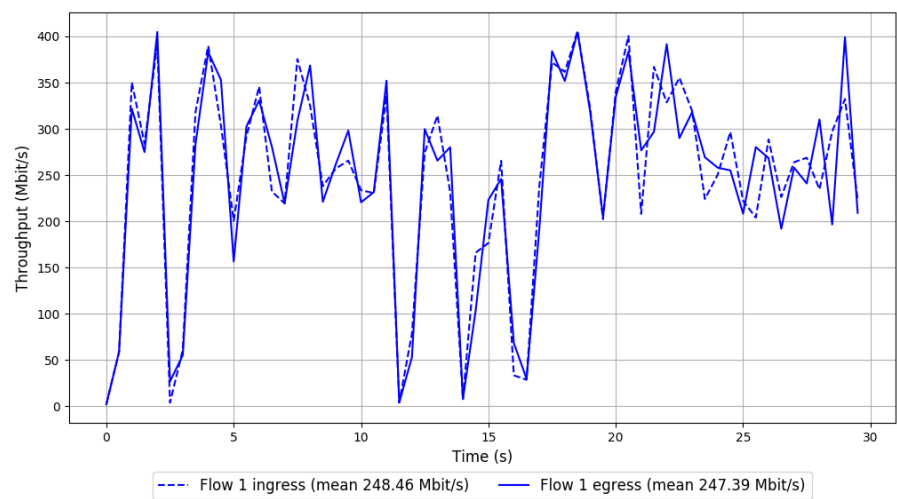
-- Flow 1:

Average throughput: 247.39 Mbit/s

95th percentile per-packet one-way delay: 88.241 ms

Loss rate: 0.41%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-20 03:45:47

End at: 2018-02-20 03:46:17

Below is generated by plot.py at 2018-02-20 07:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.03 Mbit/s

95th percentile per-packet one-way delay: 112.358 ms

Loss rate: 0.39%

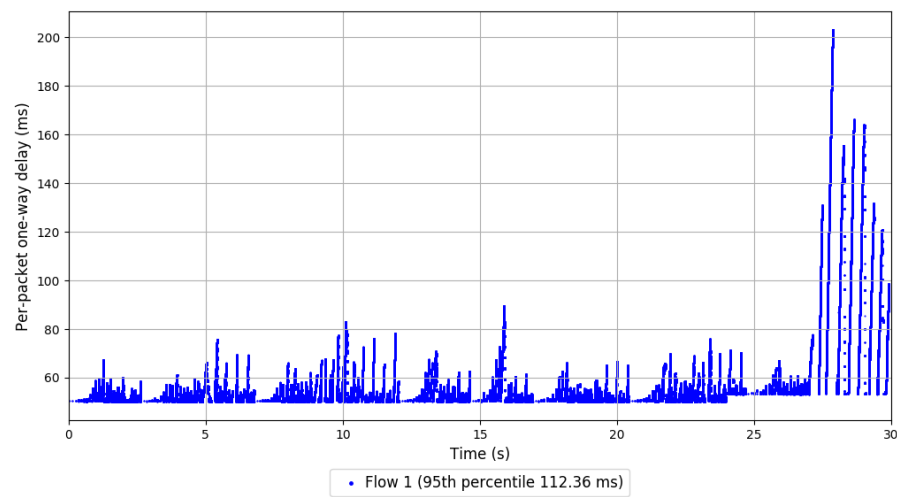
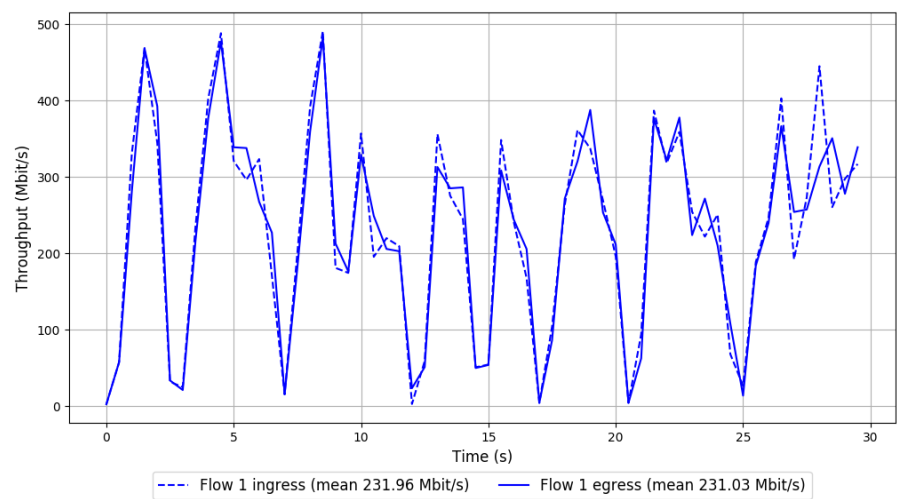
-- Flow 1:

Average throughput: 231.03 Mbit/s

95th percentile per-packet one-way delay: 112.358 ms

Loss rate: 0.39%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-20 04:00:10

End at: 2018-02-20 04:00:40

Below is generated by plot.py at 2018-02-20 07:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.37 Mbit/s

95th percentile per-packet one-way delay: 102.205 ms

Loss rate: 0.16%

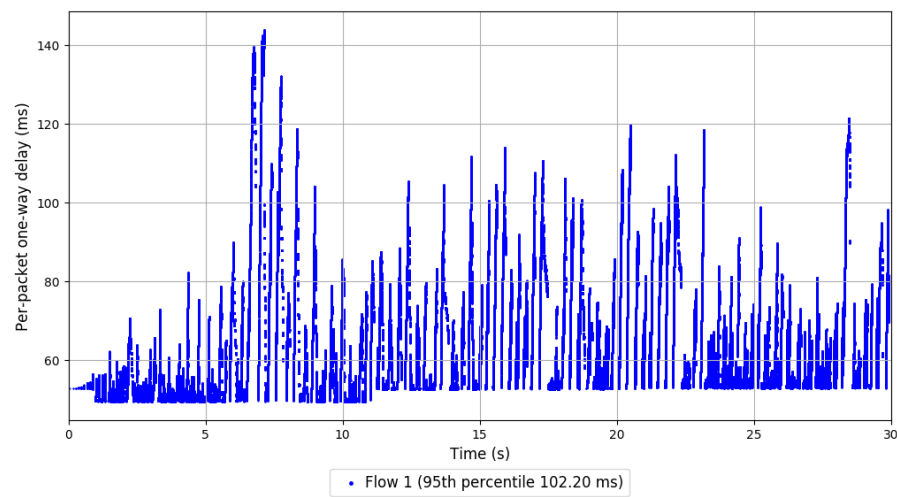
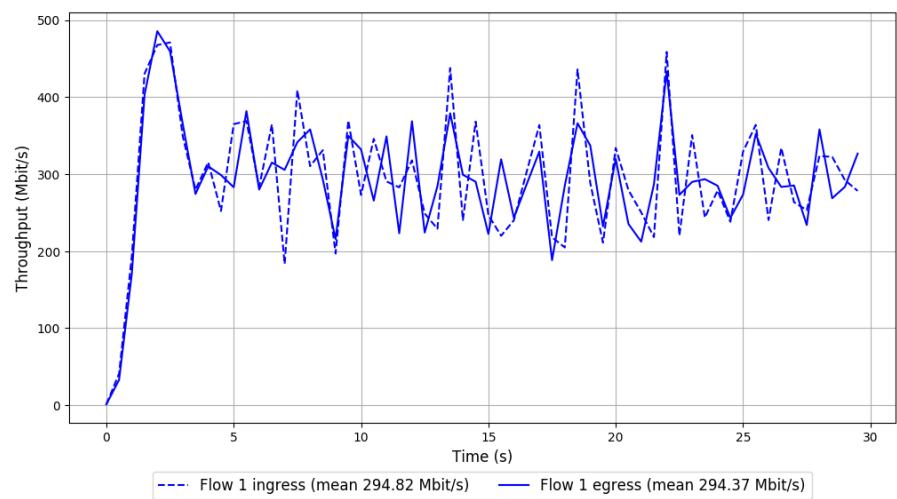
-- Flow 1:

Average throughput: 294.37 Mbit/s

95th percentile per-packet one-way delay: 102.205 ms

Loss rate: 0.16%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-20 04:14:39

End at: 2018-02-20 04:15:09

Below is generated by plot.py at 2018-02-20 07:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.38 Mbit/s

95th percentile per-packet one-way delay: 70.893 ms

Loss rate: 0.00%

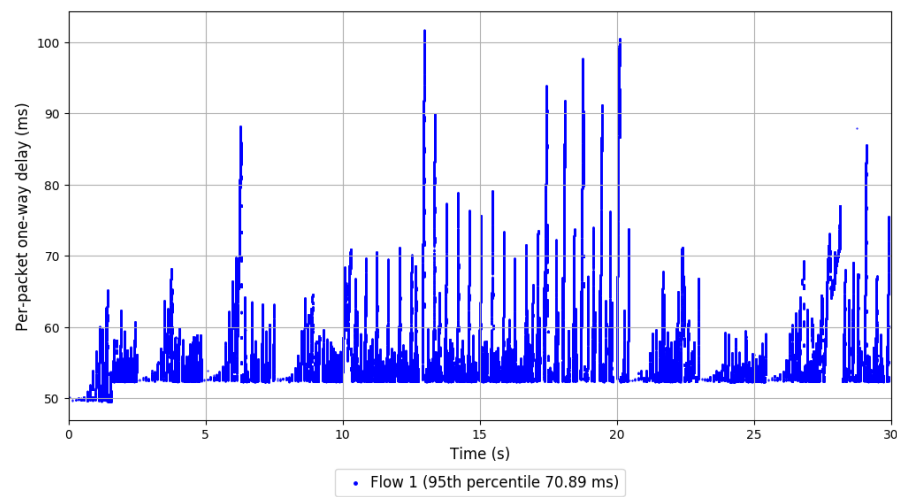
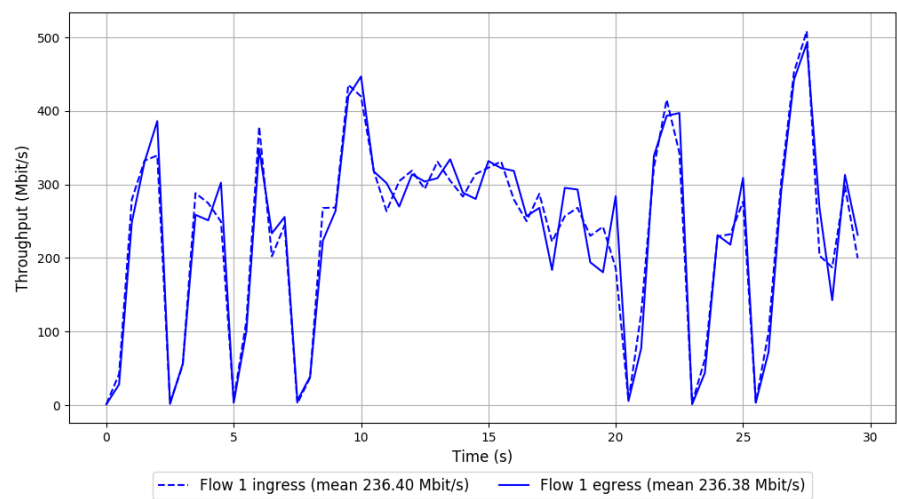
-- Flow 1:

Average throughput: 236.38 Mbit/s

95th percentile per-packet one-way delay: 70.893 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-20 04:29:24

End at: 2018-02-20 04:29:54

Below is generated by plot.py at 2018-02-20 07:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.23 Mbit/s

95th percentile per-packet one-way delay: 212.972 ms

Loss rate: 0.86%

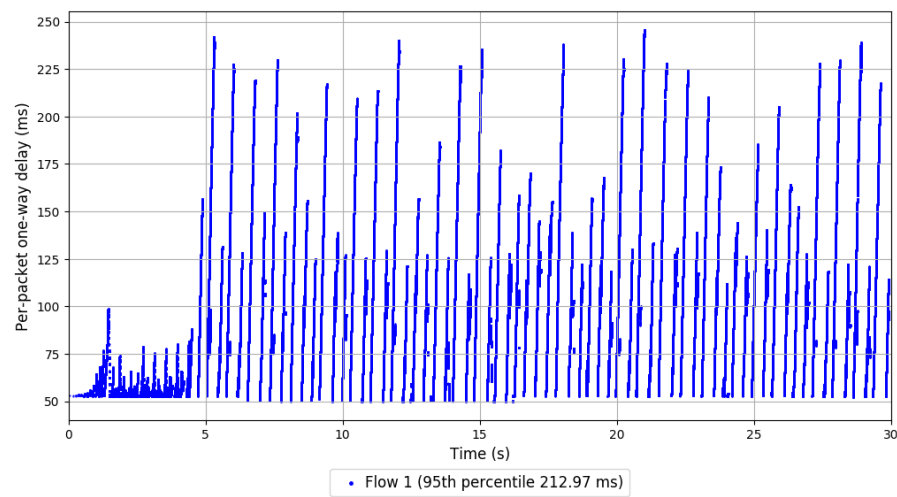
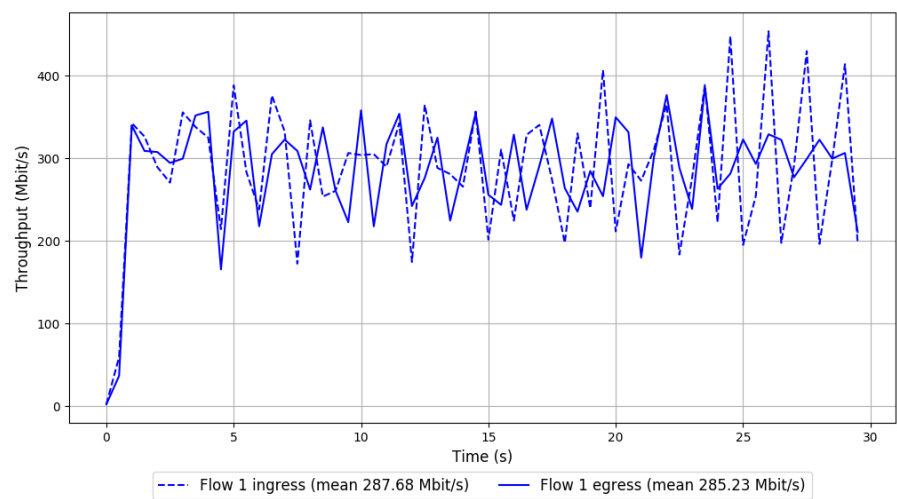
-- Flow 1:

Average throughput: 285.23 Mbit/s

95th percentile per-packet one-way delay: 212.972 ms

Loss rate: 0.86%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-20 04:43:40

End at: 2018-02-20 04:44:10

Below is generated by plot.py at 2018-02-20 07:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.26 Mbit/s

95th percentile per-packet one-way delay: 191.362 ms

Loss rate: 0.73%

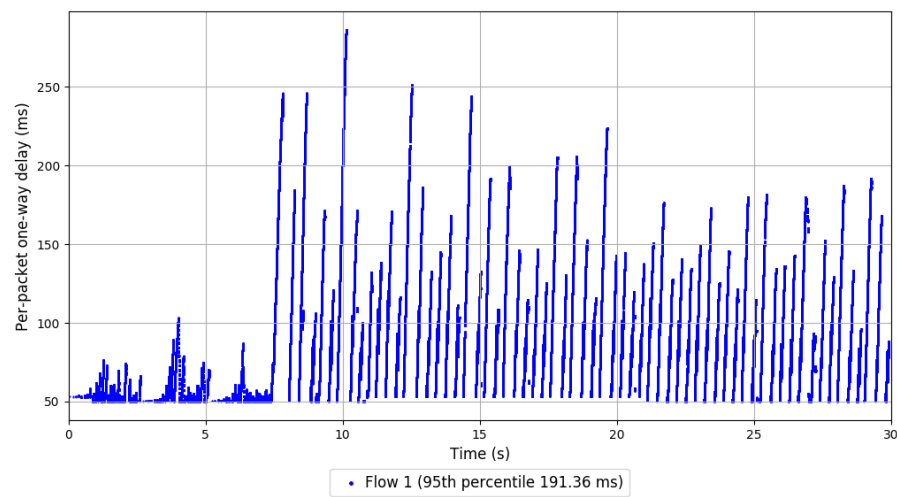
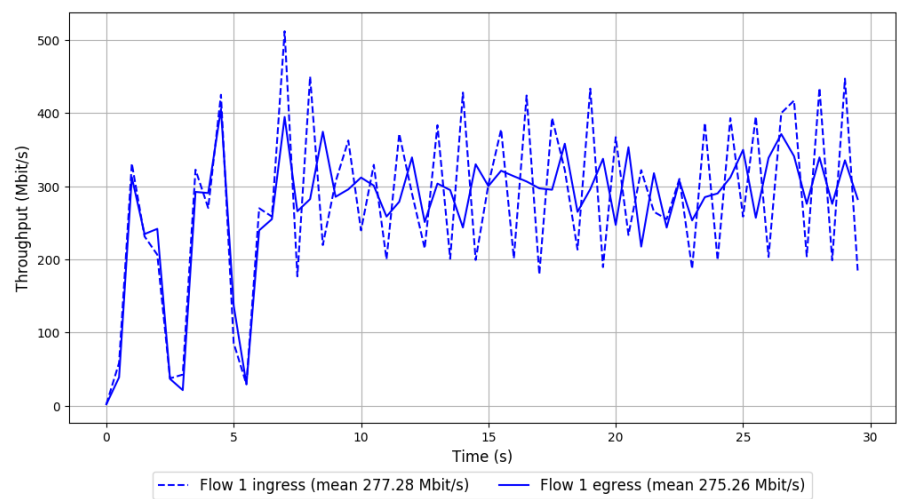
-- Flow 1:

Average throughput: 275.26 Mbit/s

95th percentile per-packet one-way delay: 191.362 ms

Loss rate: 0.73%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-20 04:58:11

End at: 2018-02-20 04:58:41

Below is generated by plot.py at 2018-02-20 07:59:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.43 Mbit/s

95th percentile per-packet one-way delay: 78.391 ms

Loss rate: 0.00%

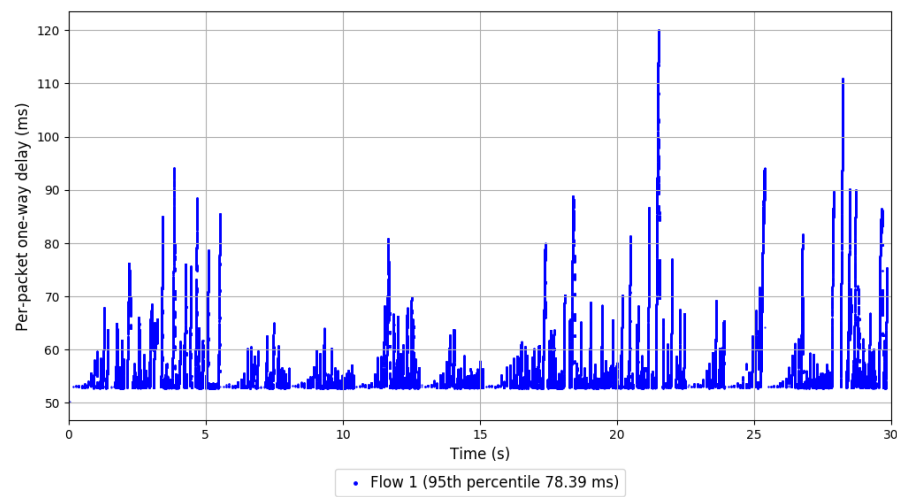
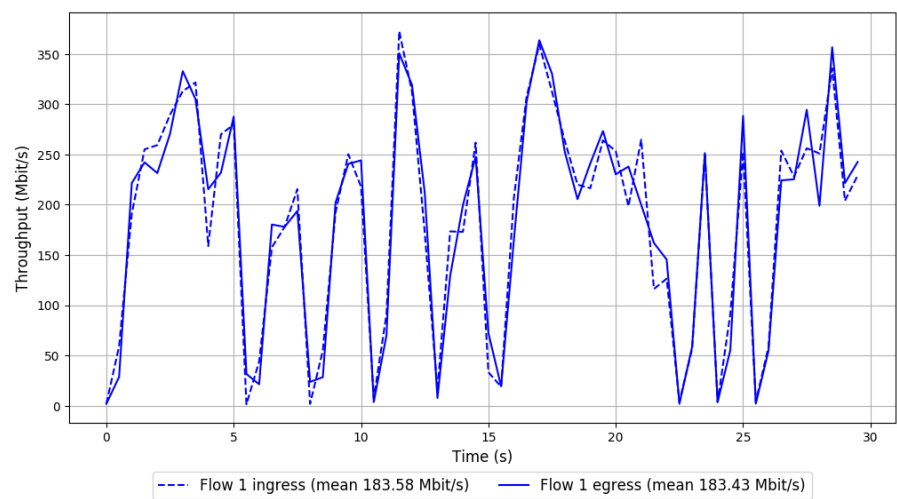
-- Flow 1:

Average throughput: 183.43 Mbit/s

95th percentile per-packet one-way delay: 78.391 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-20 05:12:34

End at: 2018-02-20 05:13:04

Below is generated by plot.py at 2018-02-20 08:02:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.56 Mbit/s

95th percentile per-packet one-way delay: 151.955 ms

Loss rate: 0.00%

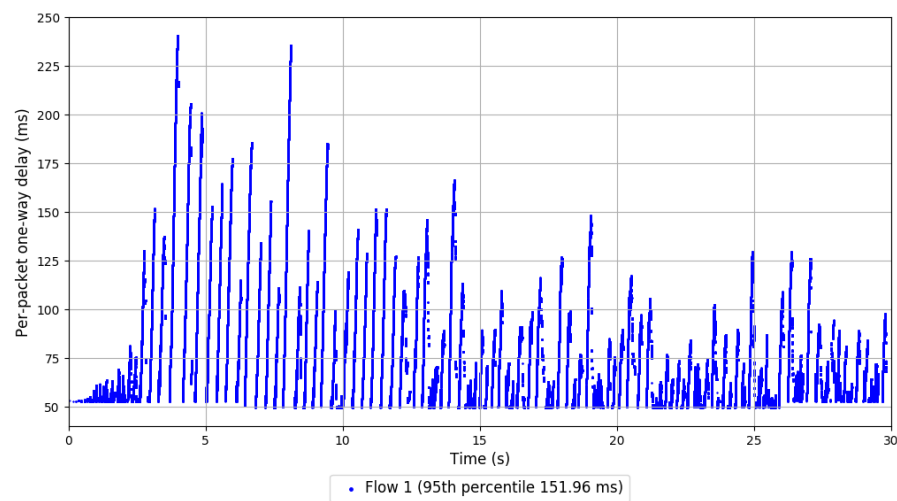
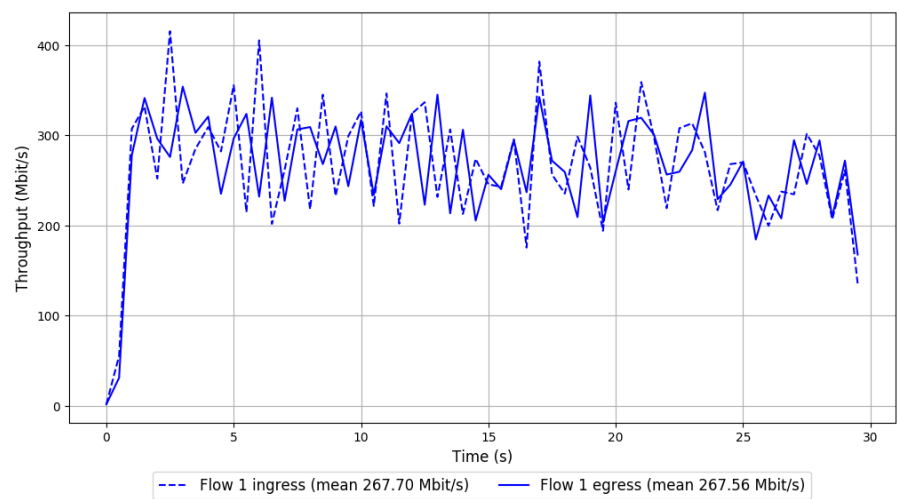
-- Flow 1:

Average throughput: 267.56 Mbit/s

95th percentile per-packet one-way delay: 151.955 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-20 05:27:05

End at: 2018-02-20 05:27:35

Below is generated by plot.py at 2018-02-20 08:02:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.82 Mbit/s

95th percentile per-packet one-way delay: 128.090 ms

Loss rate: 0.00%

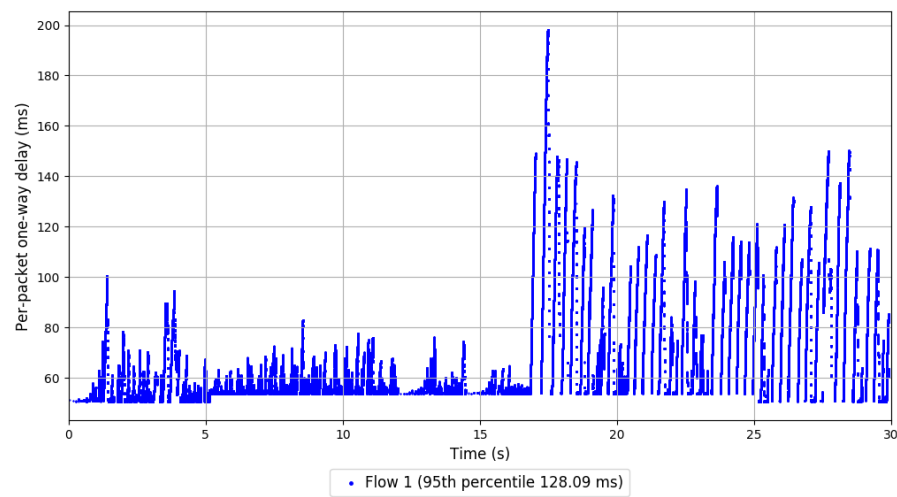
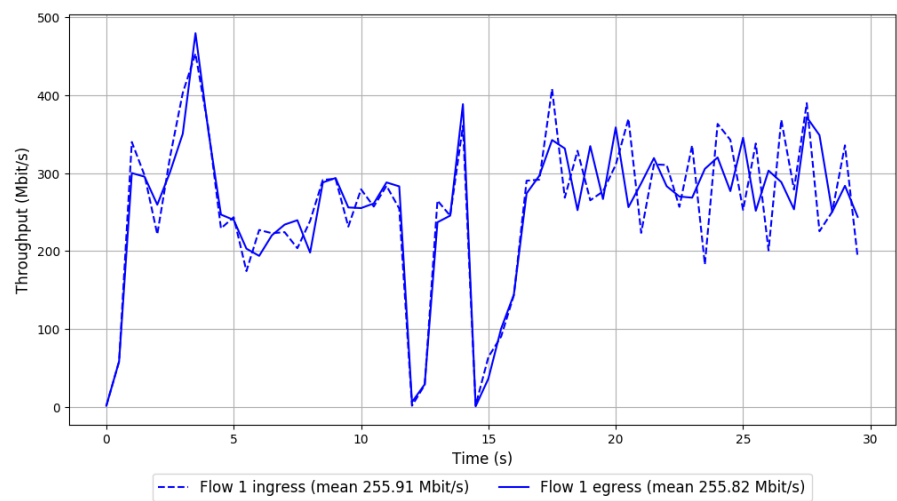
-- Flow 1:

Average throughput: 255.82 Mbit/s

95th percentile per-packet one-way delay: 128.090 ms

Loss rate: 0.00%

Run 10: Report of Verus — Data Link

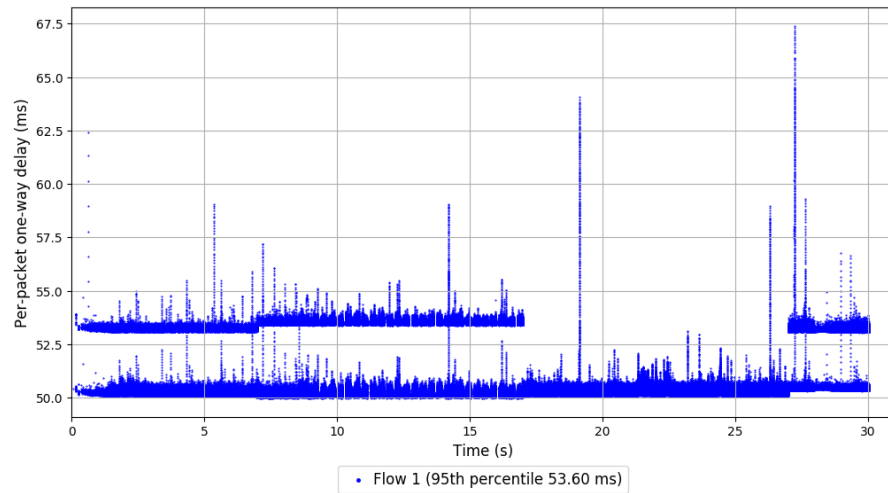
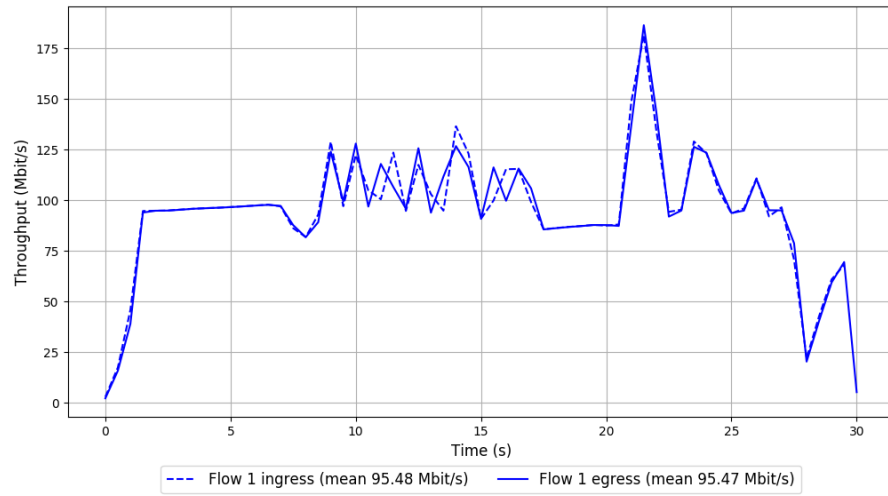


```
Run 1: Statistics of Copa

Start at: 2018-02-20 03:25:04
End at: 2018-02-20 03:25:34

# Below is generated by plot.py at 2018-02-20 08:02:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 53.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 53.596 ms
Loss rate: 0.00%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-20 03:39:25

End at: 2018-02-20 03:39:55

Below is generated by plot.py at 2018-02-20 08:15:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.88 Mbit/s

95th percentile per-packet one-way delay: 252.911 ms

Loss rate: 37.95%

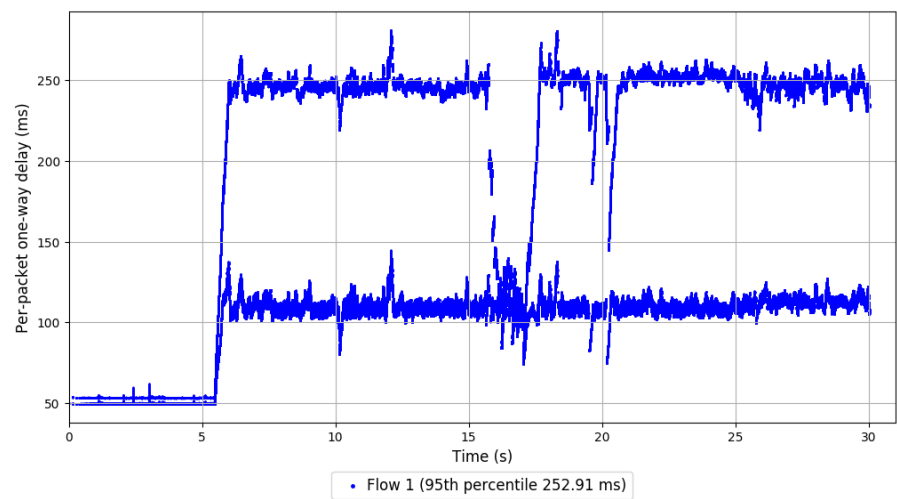
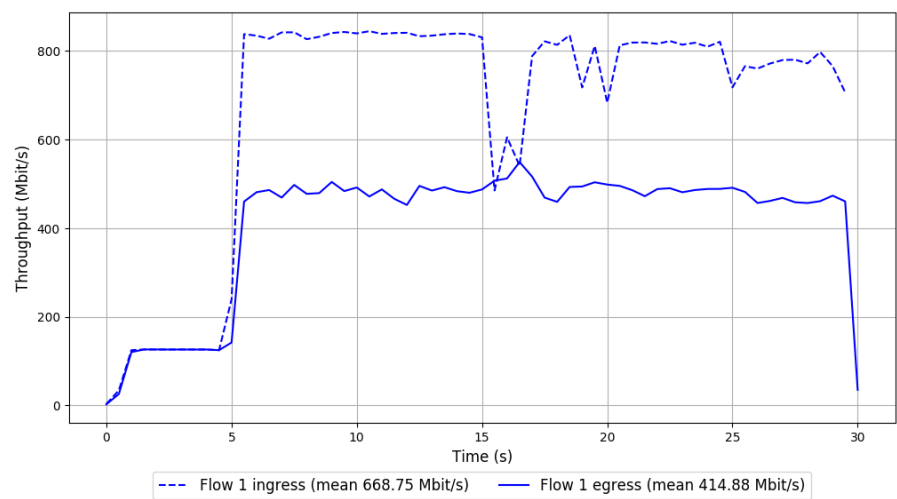
-- Flow 1:

Average throughput: 414.88 Mbit/s

95th percentile per-packet one-way delay: 252.911 ms

Loss rate: 37.95%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-20 03:54:20

End at: 2018-02-20 03:54:50

Below is generated by plot.py at 2018-02-20 08:15:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.86 Mbit/s

95th percentile per-packet one-way delay: 53.269 ms

Loss rate: 0.00%

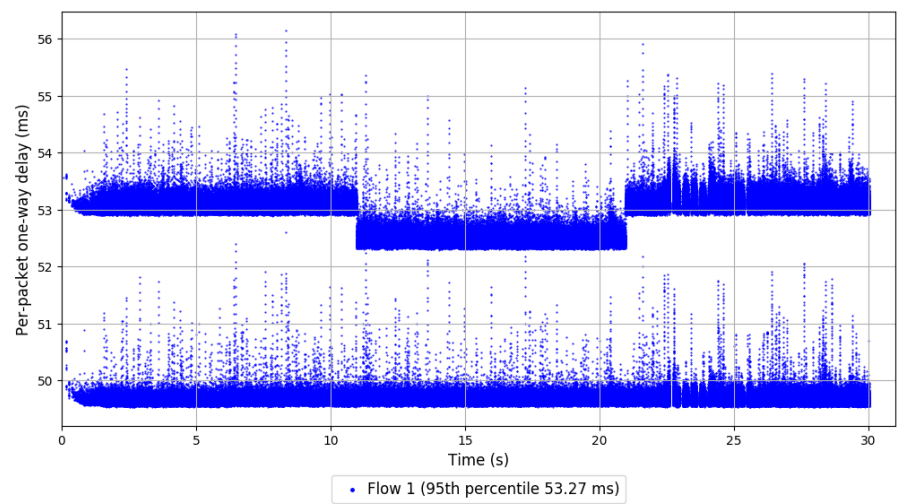
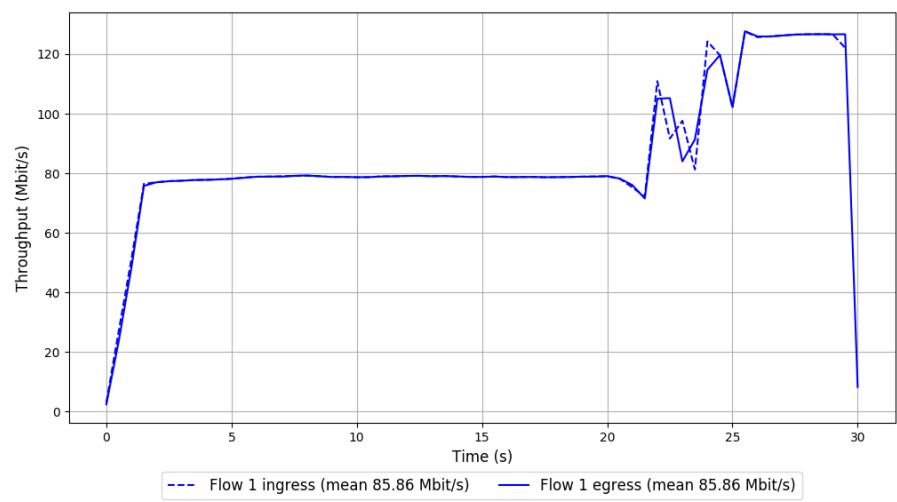
-- Flow 1:

Average throughput: 85.86 Mbit/s

95th percentile per-packet one-way delay: 53.269 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-20 04:08:43

End at: 2018-02-20 04:09:13

Below is generated by plot.py at 2018-02-20 08:15:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 52.731 ms

Loss rate: 0.00%

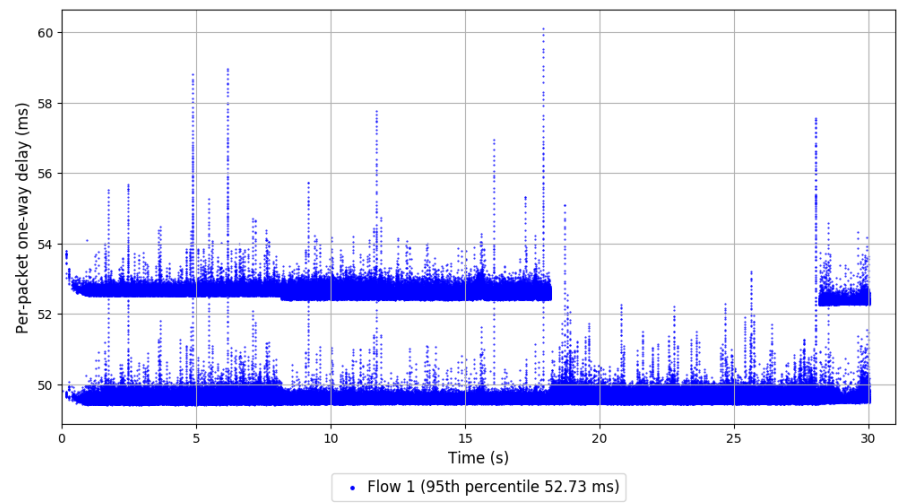
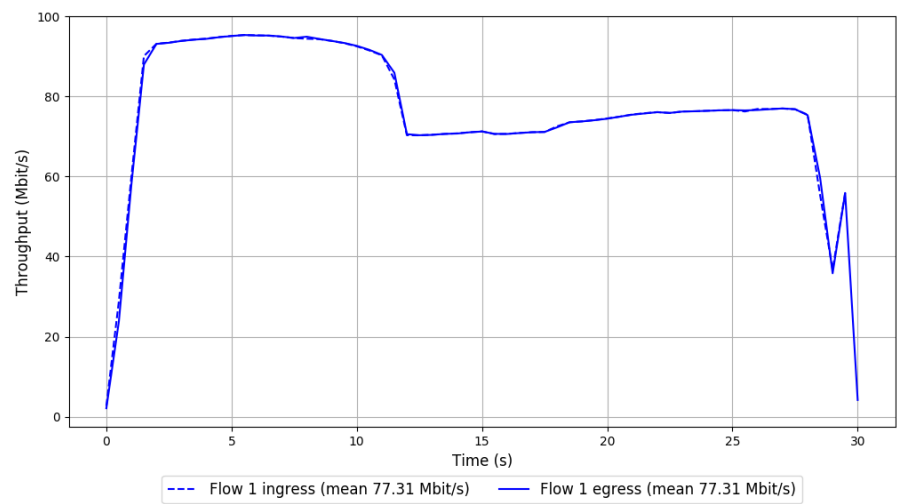
-- Flow 1:

Average throughput: 77.31 Mbit/s

95th percentile per-packet one-way delay: 52.731 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-20 04:23:38

End at: 2018-02-20 04:24:08

Below is generated by plot.py at 2018-02-20 08:15:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.78 Mbit/s

95th percentile per-packet one-way delay: 52.878 ms

Loss rate: 0.01%

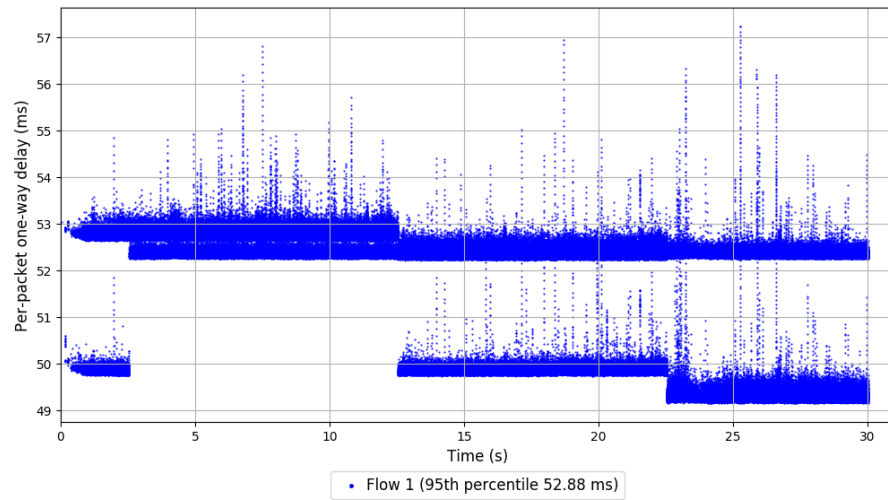
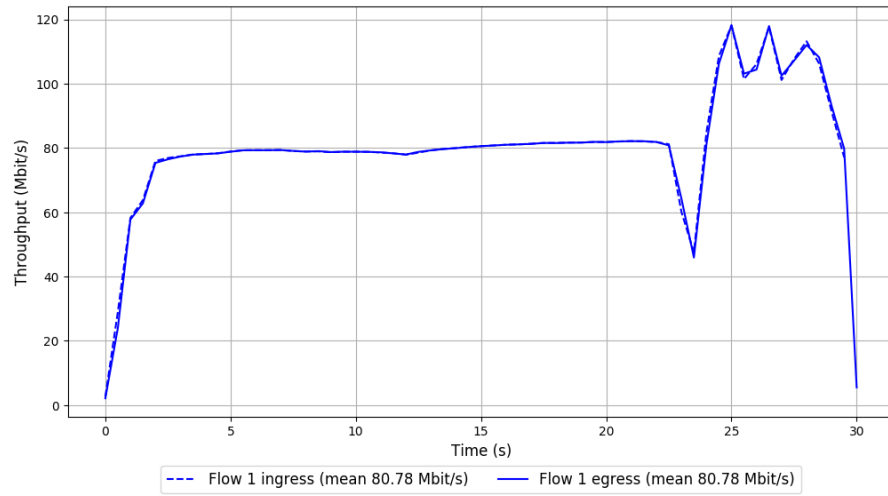
-- Flow 1:

Average throughput: 80.78 Mbit/s

95th percentile per-packet one-way delay: 52.878 ms

Loss rate: 0.01%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-20 04:37:48

End at: 2018-02-20 04:38:18

Below is generated by plot.py at 2018-02-20 08:15:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.60 Mbit/s

95th percentile per-packet one-way delay: 52.764 ms

Loss rate: 0.00%

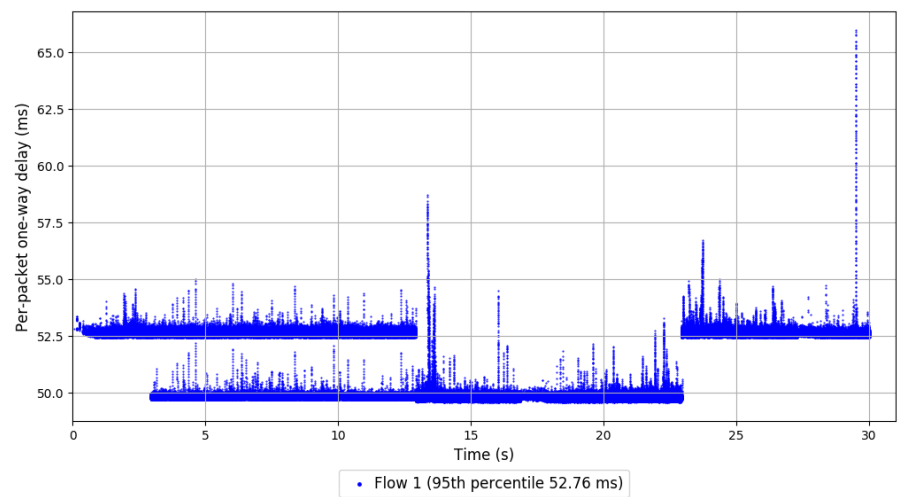
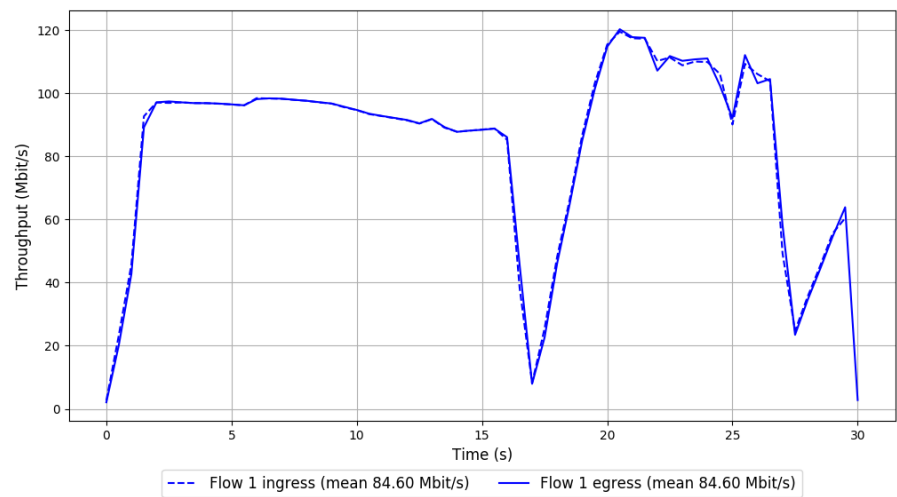
-- Flow 1:

Average throughput: 84.60 Mbit/s

95th percentile per-packet one-way delay: 52.764 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-20 04:52:16

End at: 2018-02-20 04:52:46

Below is generated by plot.py at 2018-02-20 08:15:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.78 Mbit/s

95th percentile per-packet one-way delay: 53.009 ms

Loss rate: 0.00%

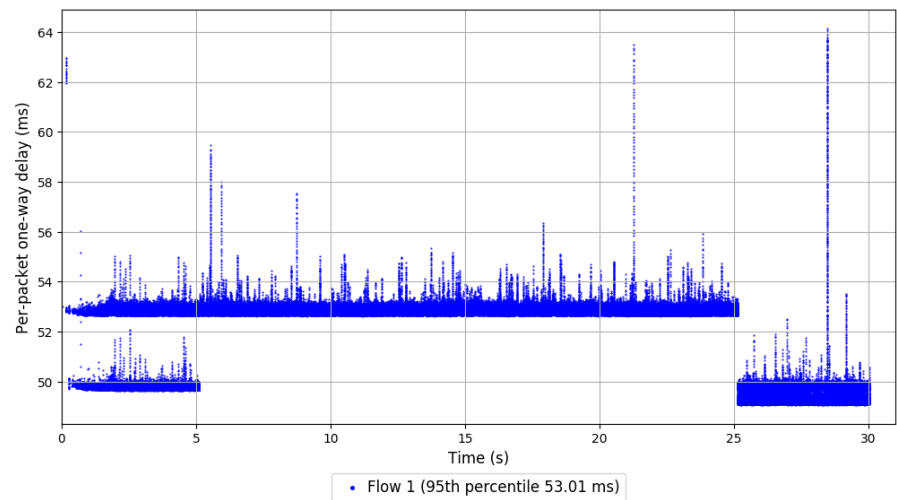
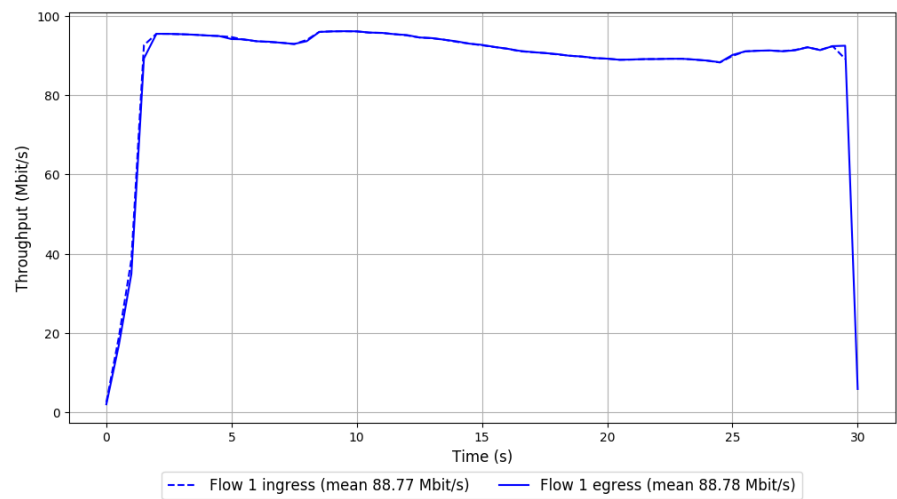
-- Flow 1:

Average throughput: 88.78 Mbit/s

95th percentile per-packet one-way delay: 53.009 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-20 05:06:40

End at: 2018-02-20 05:07:10

Below is generated by plot.py at 2018-02-20 08:15:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 52.915 ms

Loss rate: 0.00%

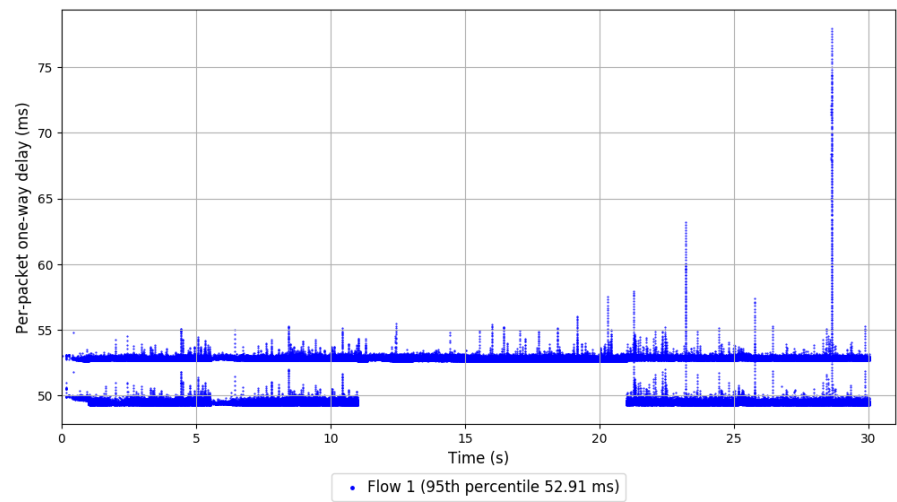
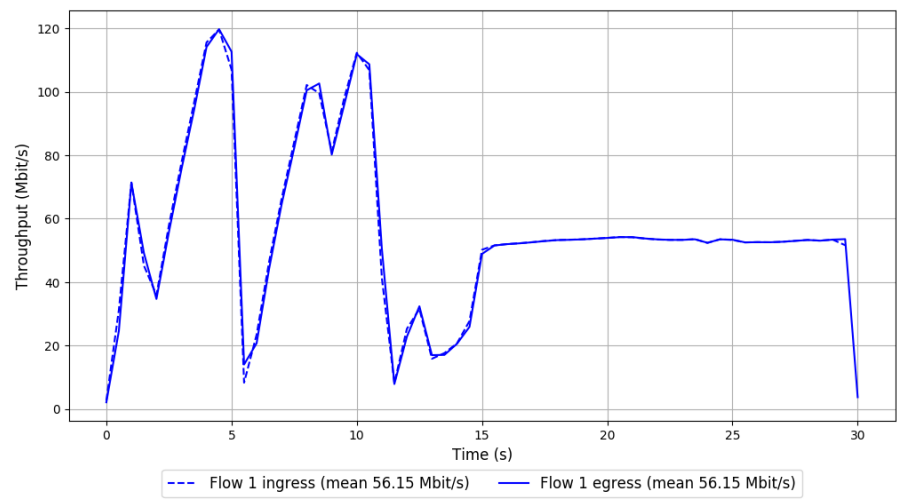
-- Flow 1:

Average throughput: 56.15 Mbit/s

95th percentile per-packet one-way delay: 52.915 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-20 05:21:14

End at: 2018-02-20 05:21:44

Below is generated by plot.py at 2018-02-20 08:15:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.60 Mbit/s

95th percentile per-packet one-way delay: 53.363 ms

Loss rate: 0.00%

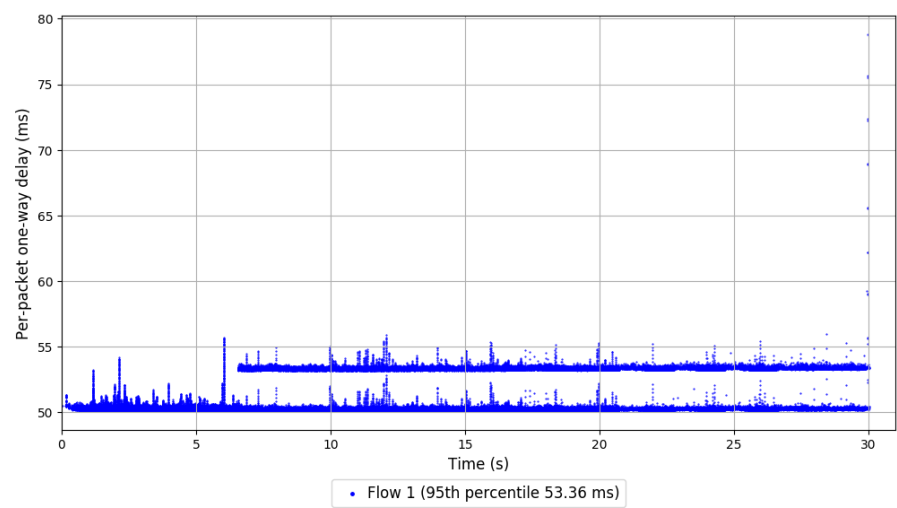
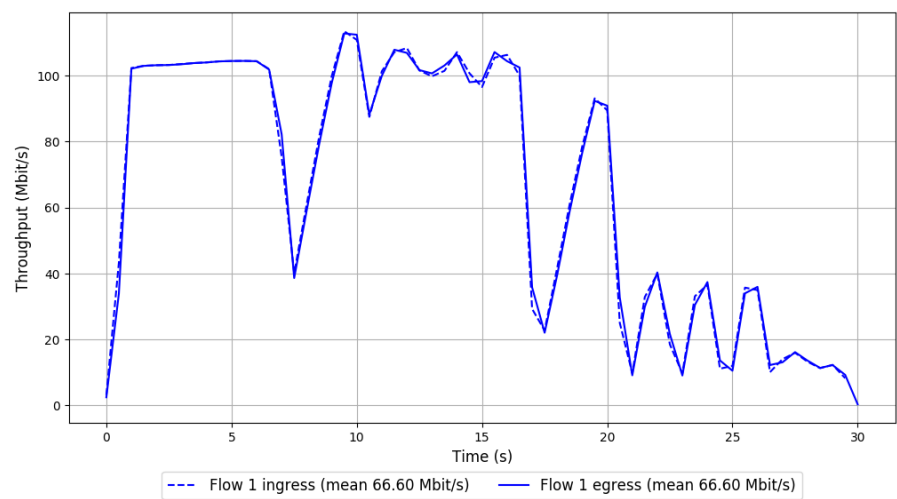
-- Flow 1:

Average throughput: 66.60 Mbit/s

95th percentile per-packet one-way delay: 53.363 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-20 05:35:35

End at: 2018-02-20 05:36:05

Below is generated by plot.py at 2018-02-20 08:15:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.39 Mbit/s

95th percentile per-packet one-way delay: 53.905 ms

Loss rate: 0.00%

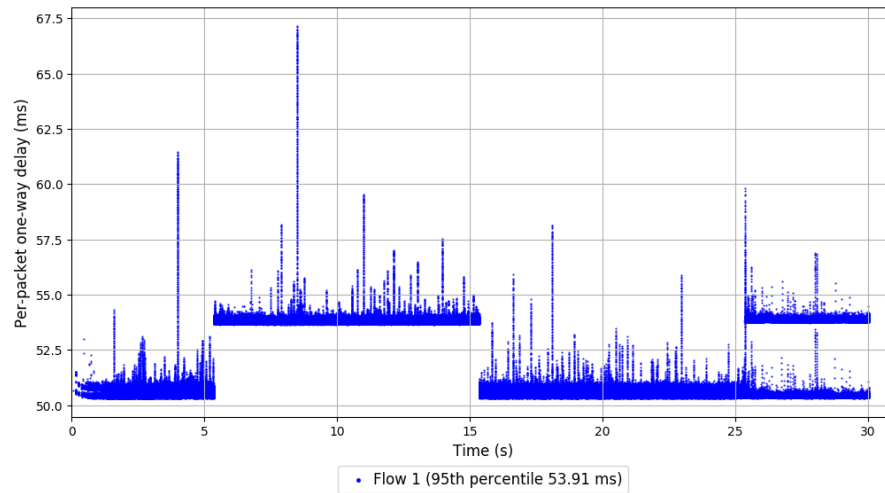
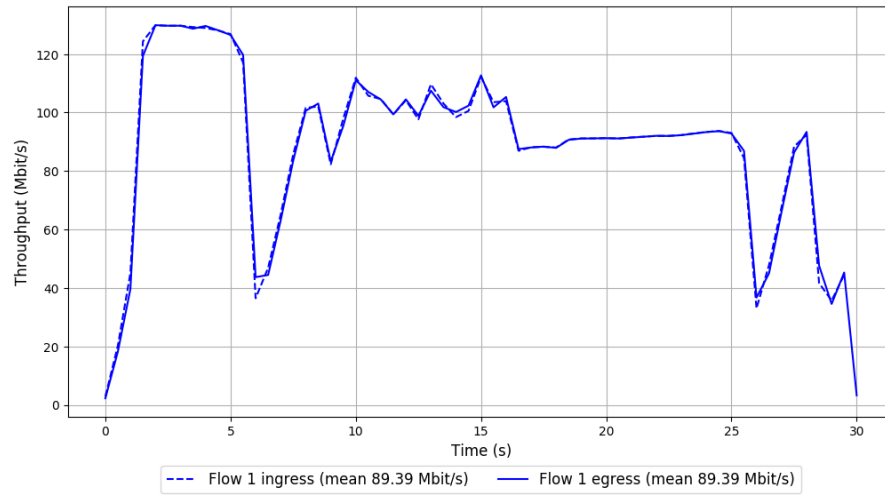
-- Flow 1:

Average throughput: 89.39 Mbit/s

95th percentile per-packet one-way delay: 53.905 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link

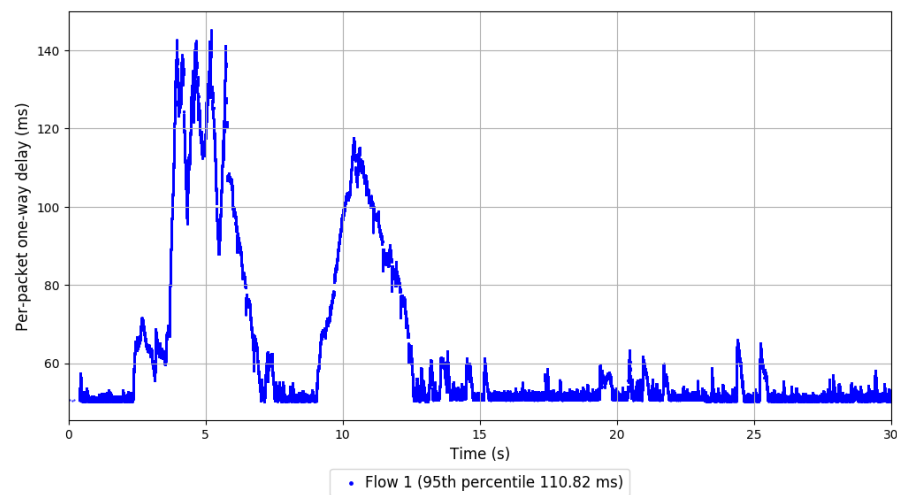
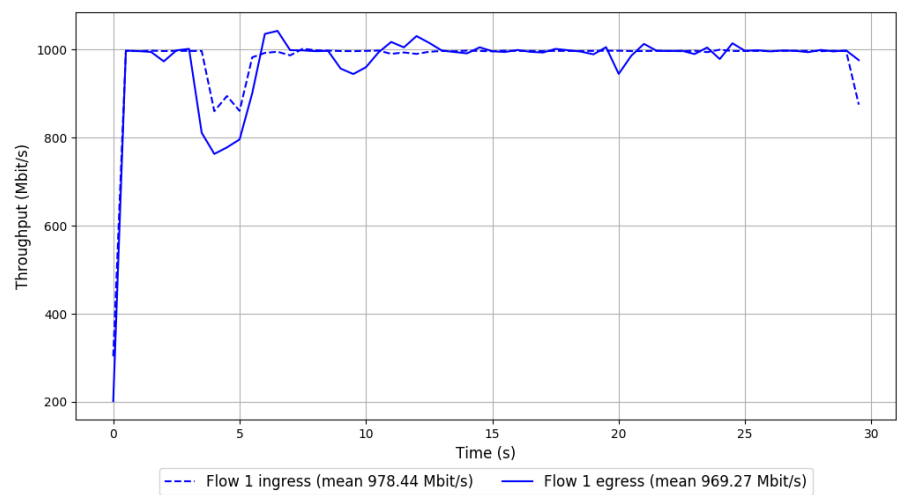


```
Run 1: Statistics of FillP

Start at: 2018-02-20 03:14:08
End at: 2018-02-20 03:14:38

# Below is generated by plot.py at 2018-02-20 08:20:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 969.27 Mbit/s
95th percentile per-packet one-way delay: 110.818 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 969.27 Mbit/s
95th percentile per-packet one-way delay: 110.818 ms
Loss rate: 0.94%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-20 03:28:43

End at: 2018-02-20 03:29:13

Below is generated by plot.py at 2018-02-20 08:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.77 Mbit/s

95th percentile per-packet one-way delay: 124.444 ms

Loss rate: 4.87%

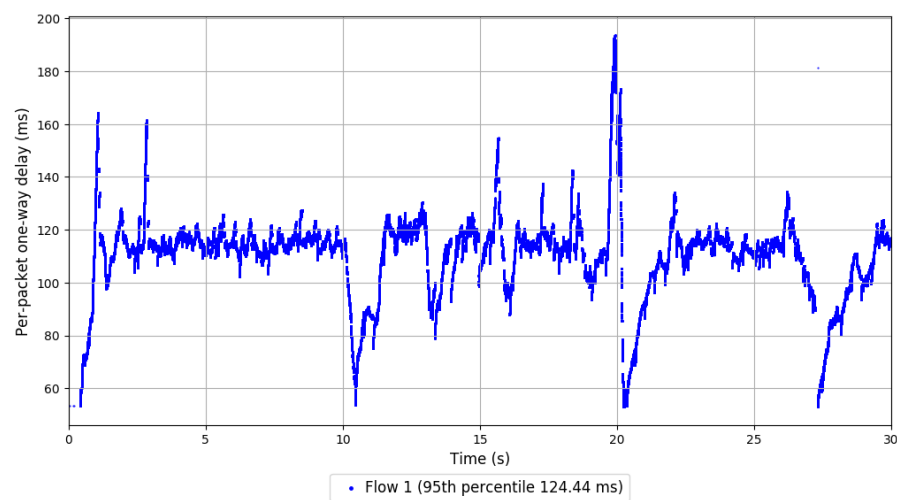
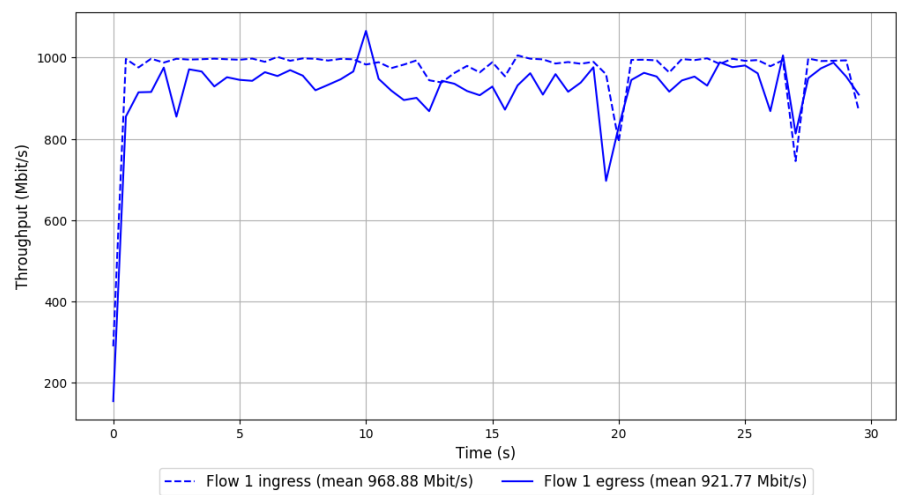
-- Flow 1:

Average throughput: 921.77 Mbit/s

95th percentile per-packet one-way delay: 124.444 ms

Loss rate: 4.87%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-20 03:43:33

End at: 2018-02-20 03:44:03

Below is generated by plot.py at 2018-02-20 08:21:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 980.26 Mbit/s

95th percentile per-packet one-way delay: 87.715 ms

Loss rate: 0.38%

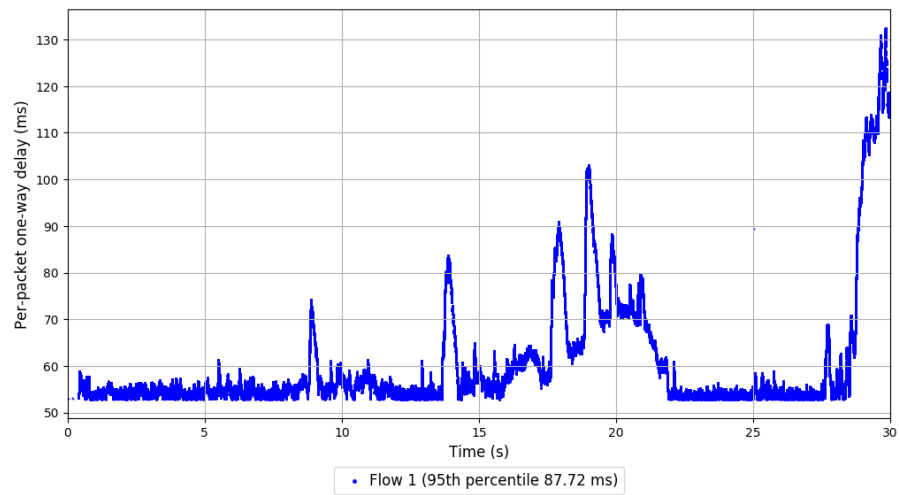
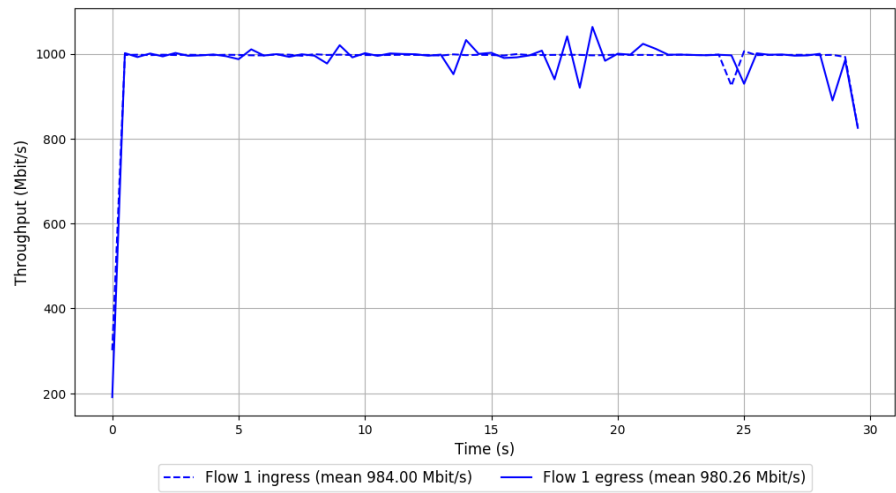
-- Flow 1:

Average throughput: 980.26 Mbit/s

95th percentile per-packet one-way delay: 87.715 ms

Loss rate: 0.38%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-20 03:58:01

End at: 2018-02-20 03:58:31

Below is generated by plot.py at 2018-02-20 08:21:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 891.59 Mbit/s

95th percentile per-packet one-way delay: 132.297 ms

Loss rate: 7.12%

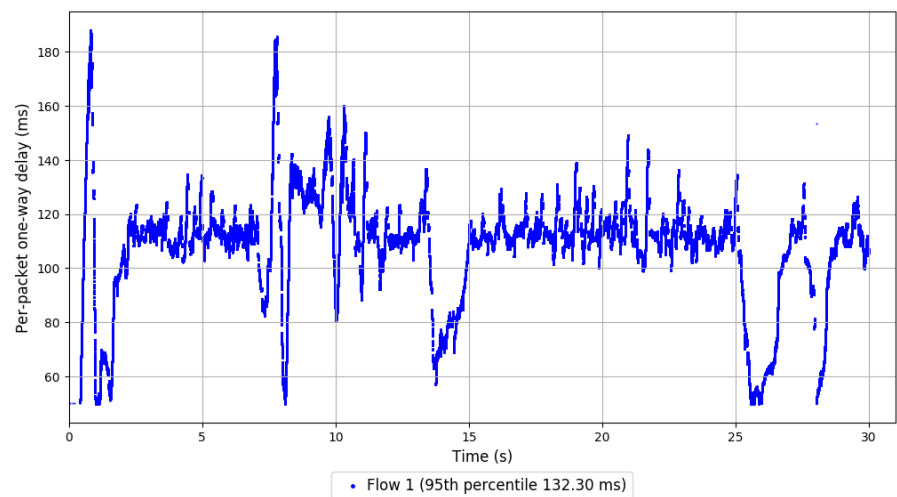
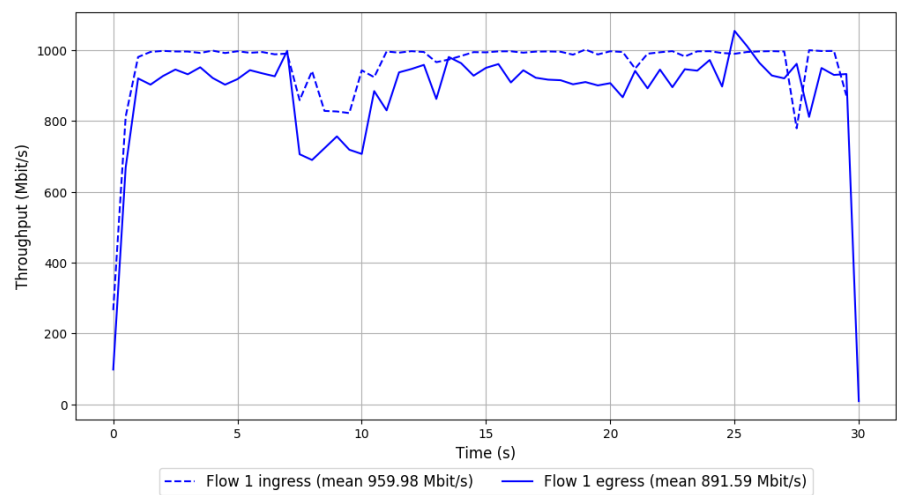
-- Flow 1:

Average throughput: 891.59 Mbit/s

95th percentile per-packet one-way delay: 132.297 ms

Loss rate: 7.12%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-20 04:12:23

End at: 2018-02-20 04:12:53

Below is generated by plot.py at 2018-02-20 08:22:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 973.73 Mbit/s

95th percentile per-packet one-way delay: 68.041 ms

Loss rate: 1.05%

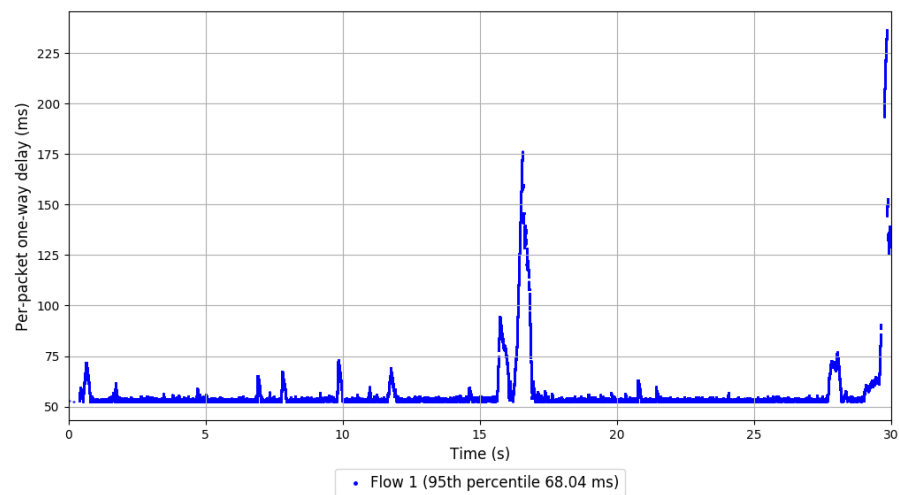
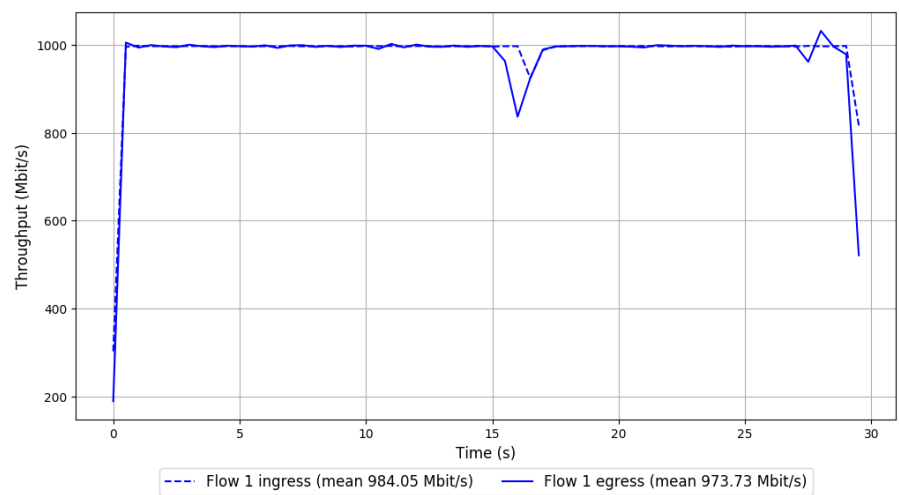
-- Flow 1:

Average throughput: 973.73 Mbit/s

95th percentile per-packet one-way delay: 68.041 ms

Loss rate: 1.05%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-20 04:27:16

End at: 2018-02-20 04:27:46

Below is generated by plot.py at 2018-02-20 08:22:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 951.46 Mbit/s

95th percentile per-packet one-way delay: 116.906 ms

Loss rate: 2.79%

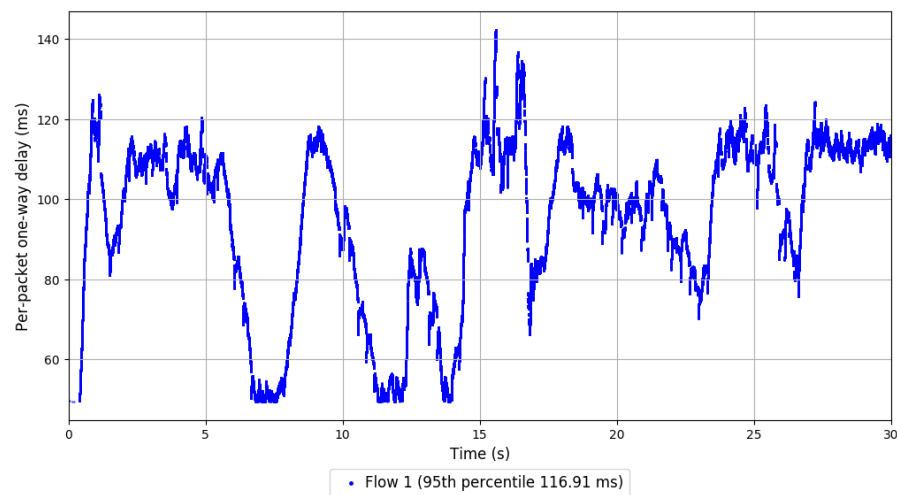
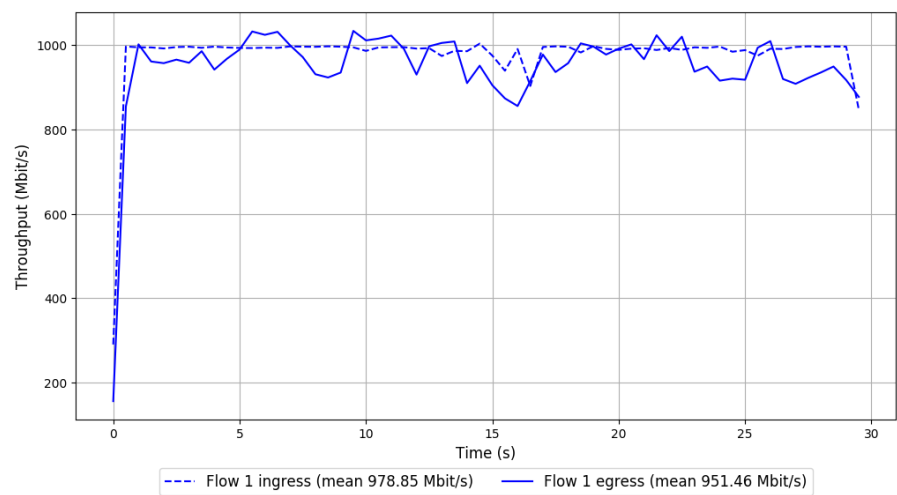
-- Flow 1:

Average throughput: 951.46 Mbit/s

95th percentile per-packet one-way delay: 116.906 ms

Loss rate: 2.79%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-20 04:41:28

End at: 2018-02-20 04:41:58

Below is generated by plot.py at 2018-02-20 08:22:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 938.94 Mbit/s

95th percentile per-packet one-way delay: 122.766 ms

Loss rate: 3.18%

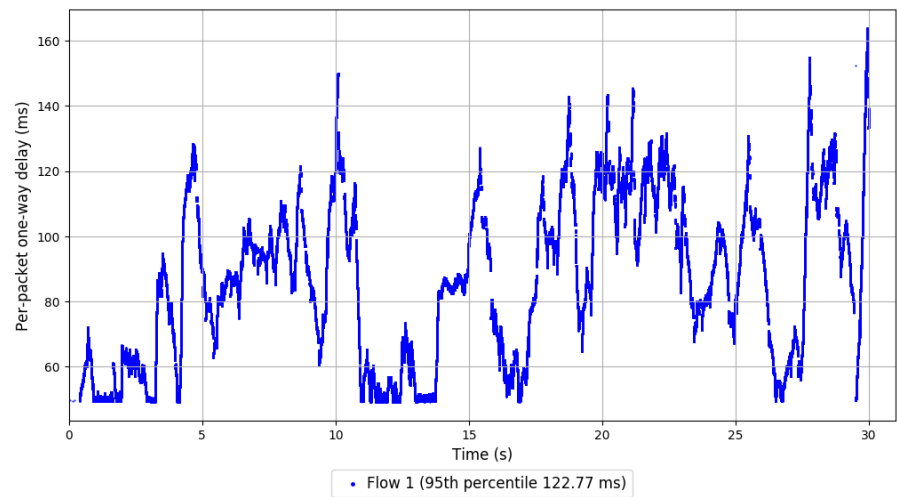
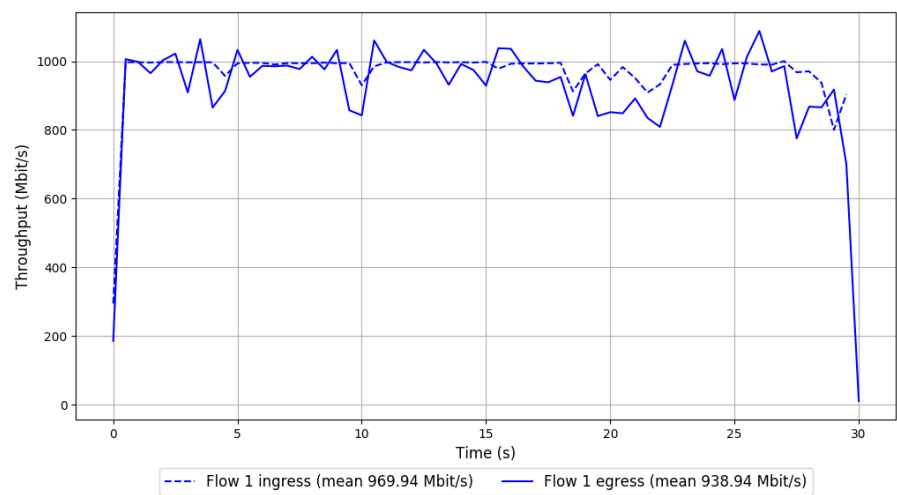
-- Flow 1:

Average throughput: 938.94 Mbit/s

95th percentile per-packet one-way delay: 122.766 ms

Loss rate: 3.18%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-20 04:55:56

End at: 2018-02-20 04:56:27

Below is generated by plot.py at 2018-02-20 08:34:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 881.63 Mbit/s

95th percentile per-packet one-way delay: 128.897 ms

Loss rate: 8.12%

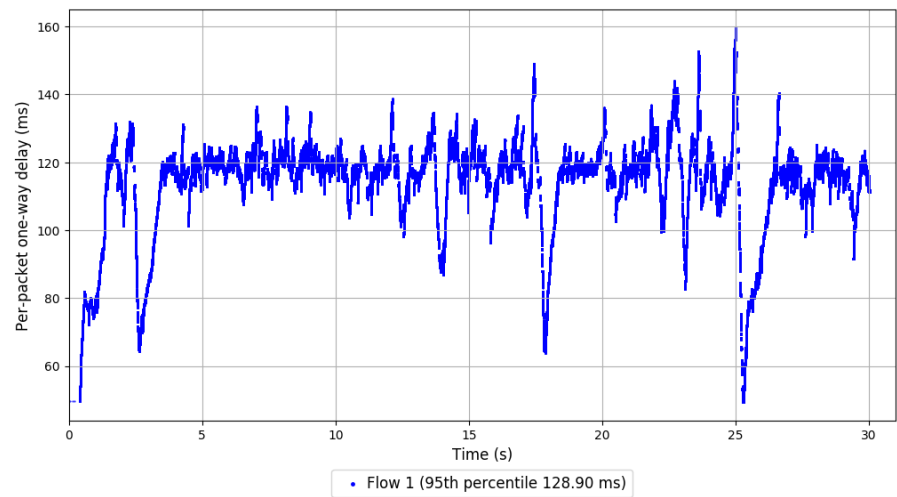
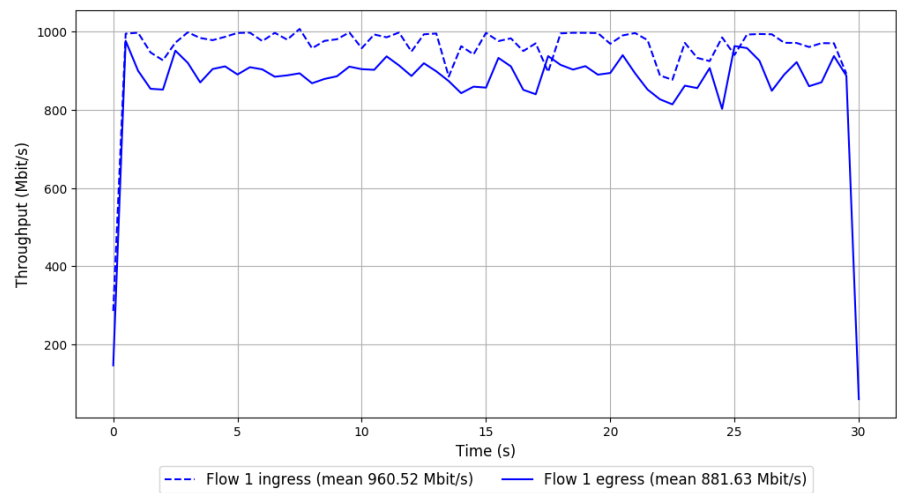
-- Flow 1:

Average throughput: 881.63 Mbit/s

95th percentile per-packet one-way delay: 128.897 ms

Loss rate: 8.12%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-20 05:10:20

End at: 2018-02-20 05:10:50

Below is generated by plot.py at 2018-02-20 08:37:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 896.23 Mbit/s

95th percentile per-packet one-way delay: 129.259 ms

Loss rate: 6.05%

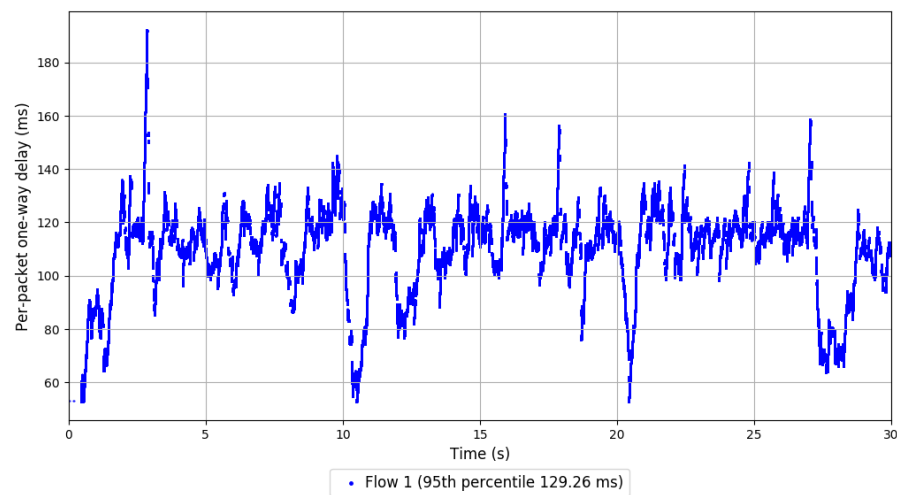
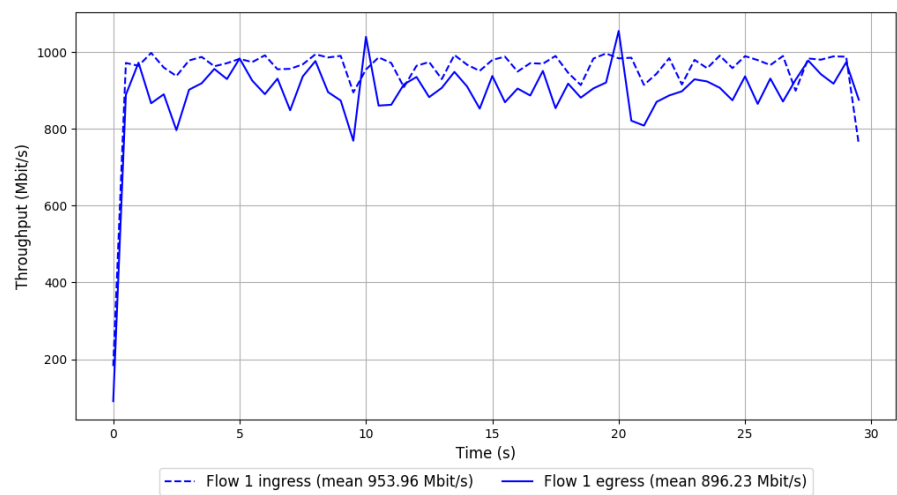
-- Flow 1:

Average throughput: 896.23 Mbit/s

95th percentile per-packet one-way delay: 129.259 ms

Loss rate: 6.05%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-20 05:24:52

End at: 2018-02-20 05:25:22

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.12 Mbit/s

95th percentile per-packet one-way delay: 124.990 ms

Loss rate: 2.63%

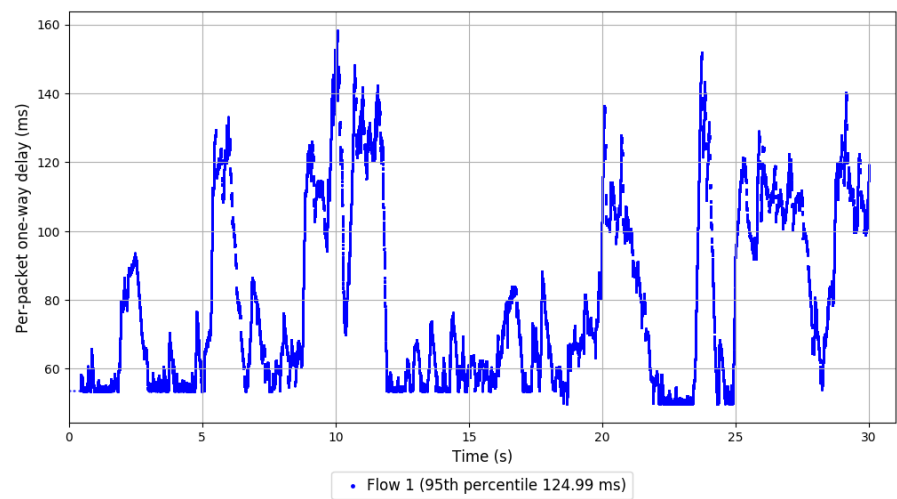
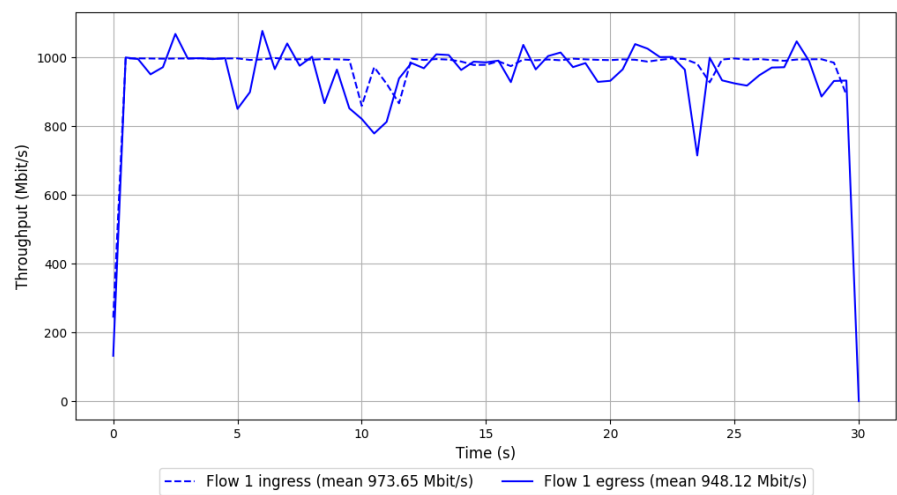
-- Flow 1:

Average throughput: 948.12 Mbit/s

95th percentile per-packet one-way delay: 124.990 ms

Loss rate: 2.63%

Run 10: Report of FillP — Data Link

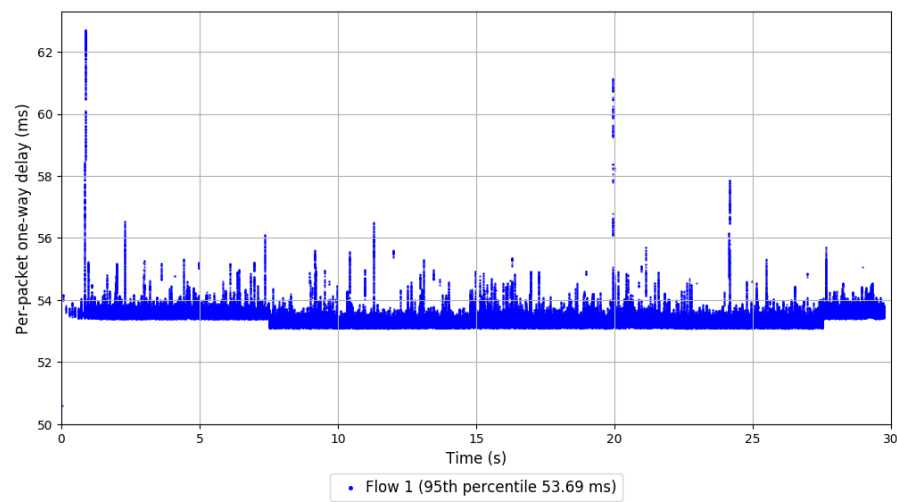
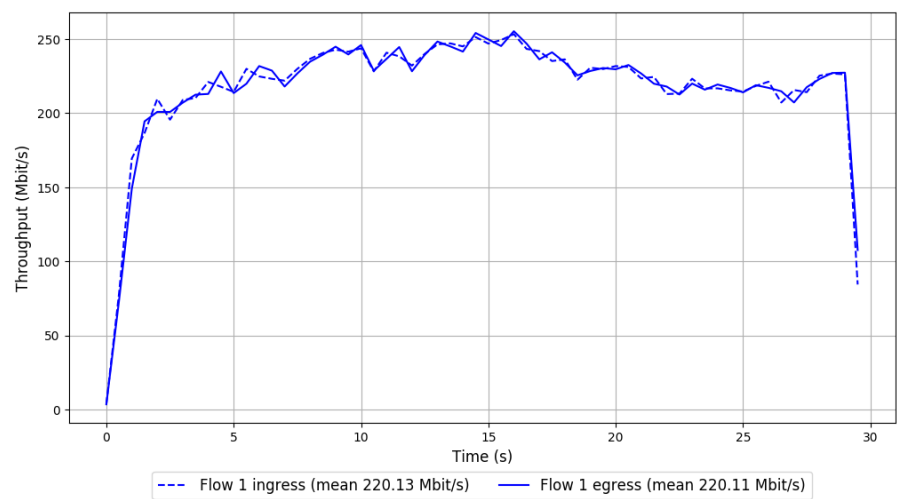


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-20 03:23:13
End at: 2018-02-20 03:23:43

# Below is generated by plot.py at 2018-02-20 08:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.11 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.11 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 0.00%
```

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

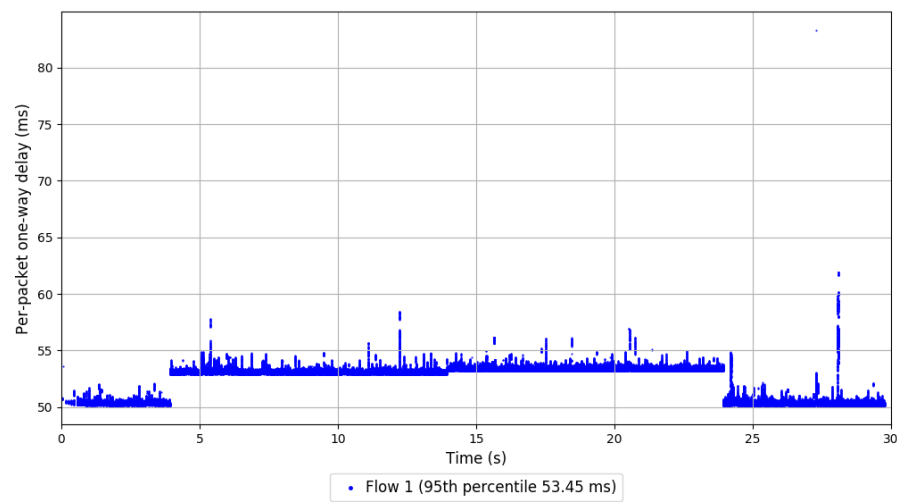
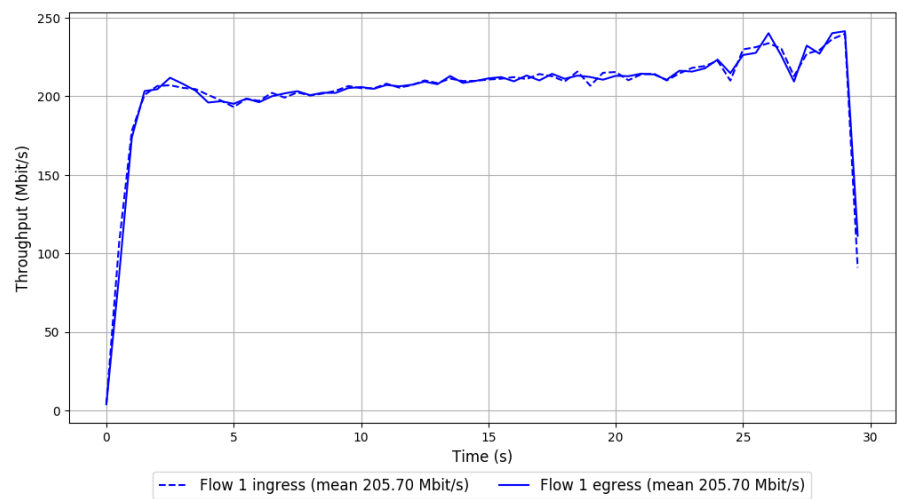


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-20 03:37:37
End at: 2018-02-20 03:38:07

# Below is generated by plot.py at 2018-02-20 08:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.70 Mbit/s
95th percentile per-packet one-way delay: 53.447 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.70 Mbit/s
95th percentile per-packet one-way delay: 53.447 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-20 03:52:25

End at: 2018-02-20 03:52:55

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.46 Mbit/s

95th percentile per-packet one-way delay: 53.400 ms

Loss rate: 0.00%

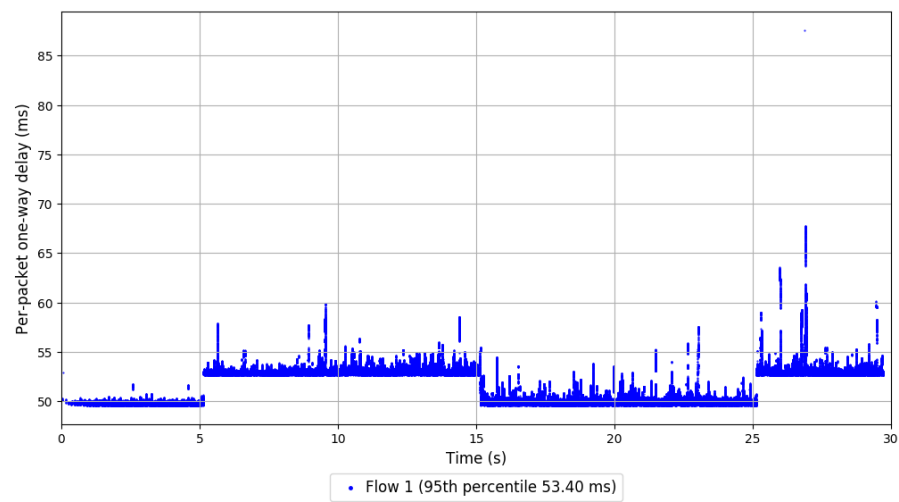
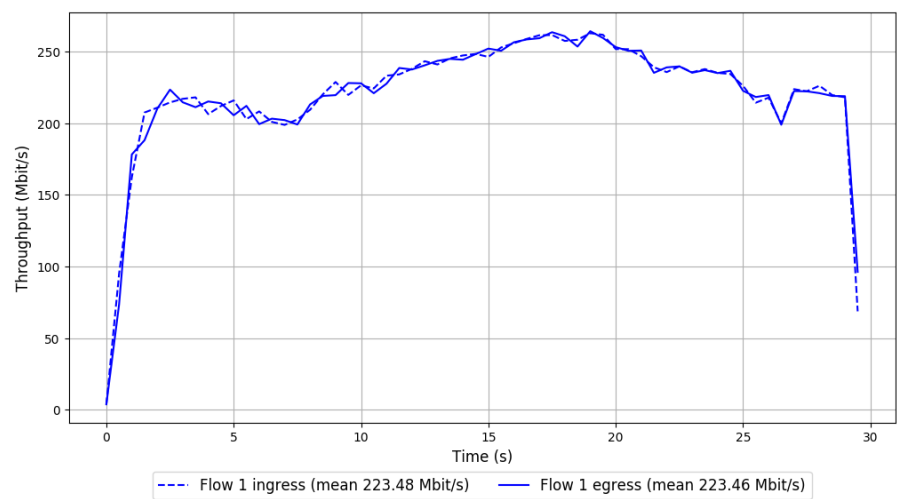
-- Flow 1:

Average throughput: 223.46 Mbit/s

95th percentile per-packet one-way delay: 53.400 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-20 04:06:51

End at: 2018-02-20 04:07:22

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.94 Mbit/s

95th percentile per-packet one-way delay: 52.888 ms

Loss rate: 0.01%

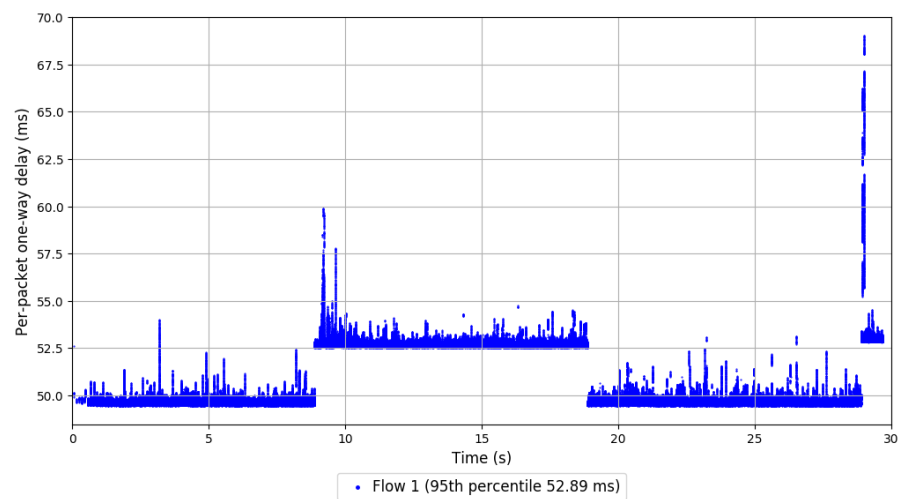
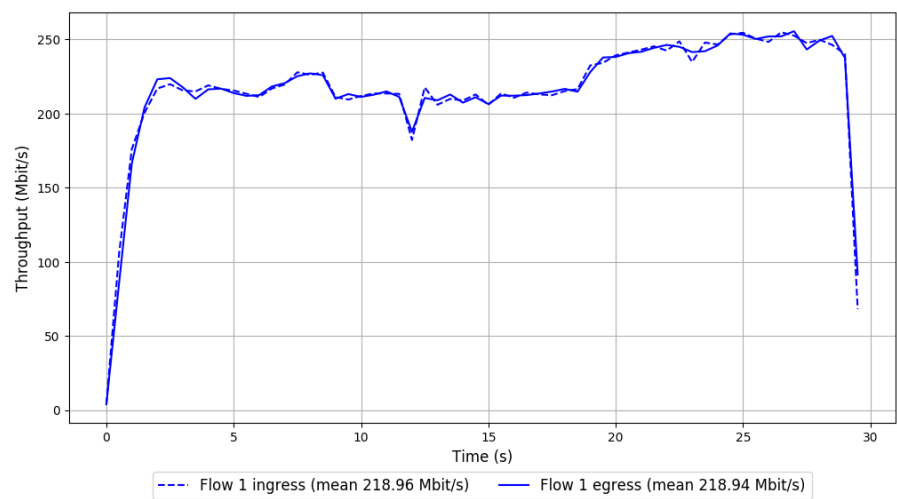
-- Flow 1:

Average throughput: 218.94 Mbit/s

95th percentile per-packet one-way delay: 52.888 ms

Loss rate: 0.01%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-20 04:21:44

End at: 2018-02-20 04:22:14

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.86 Mbit/s

95th percentile per-packet one-way delay: 52.707 ms

Loss rate: 0.00%

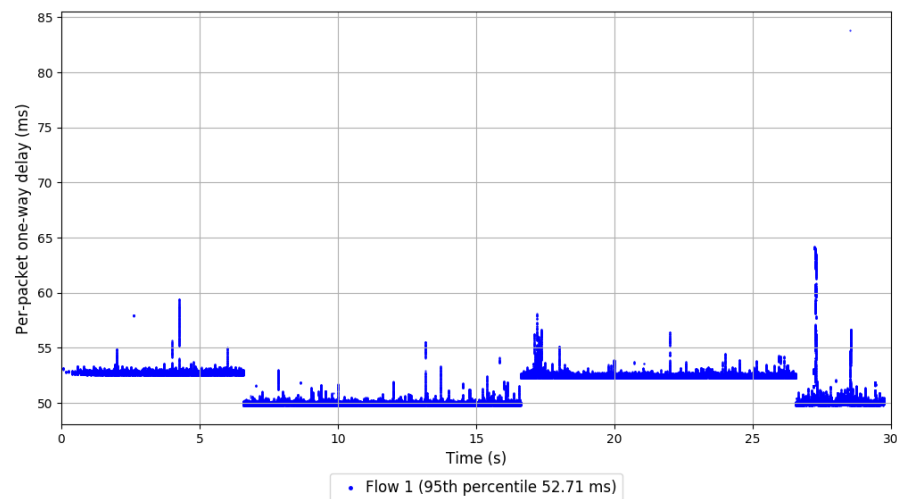
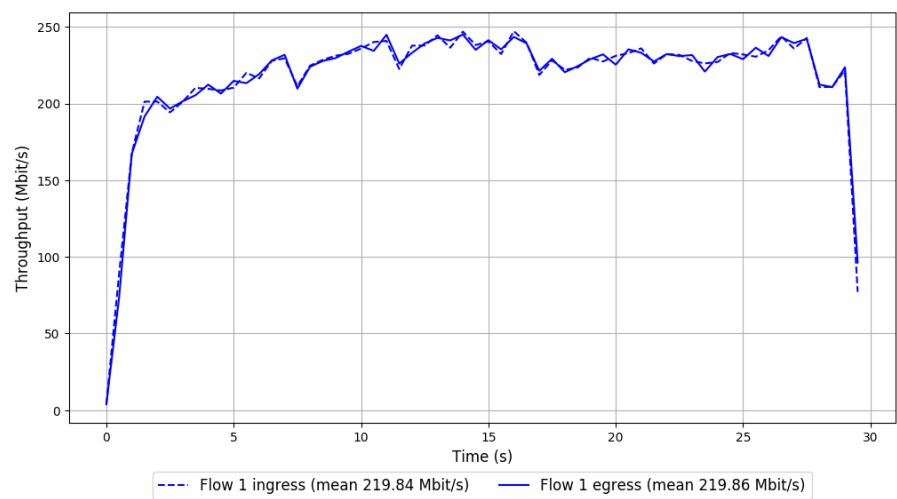
-- Flow 1:

Average throughput: 219.86 Mbit/s

95th percentile per-packet one-way delay: 52.707 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-20 04:36:02

End at: 2018-02-20 04:36:32

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.04 Mbit/s

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

Loss rate: 0.00%

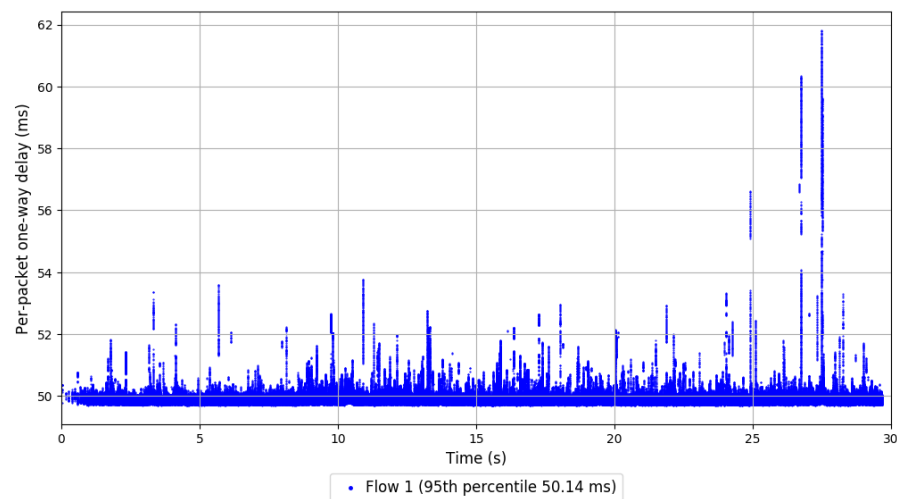
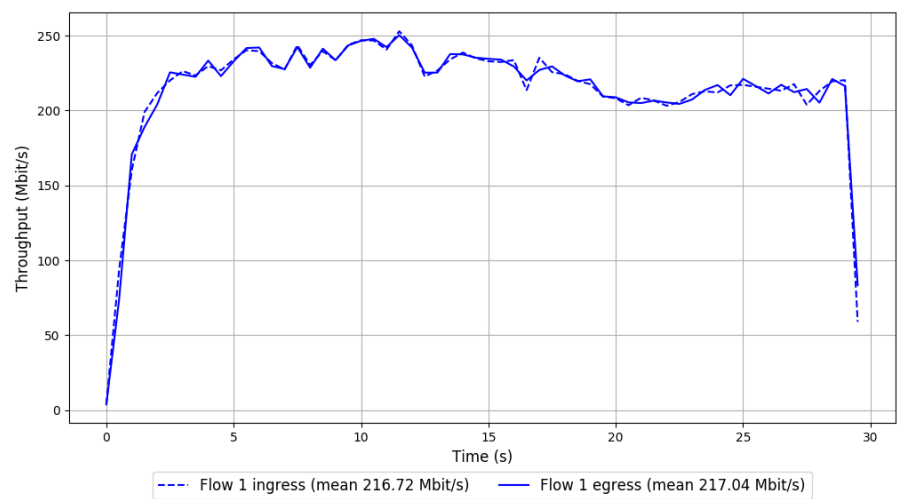
-- Flow 1:

Average throughput: 217.04 Mbit/s

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

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-20 04:50:31

End at: 2018-02-20 04:51:01

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.26 Mbit/s

95th percentile per-packet one-way delay: 50.062 ms

Loss rate: 0.01%

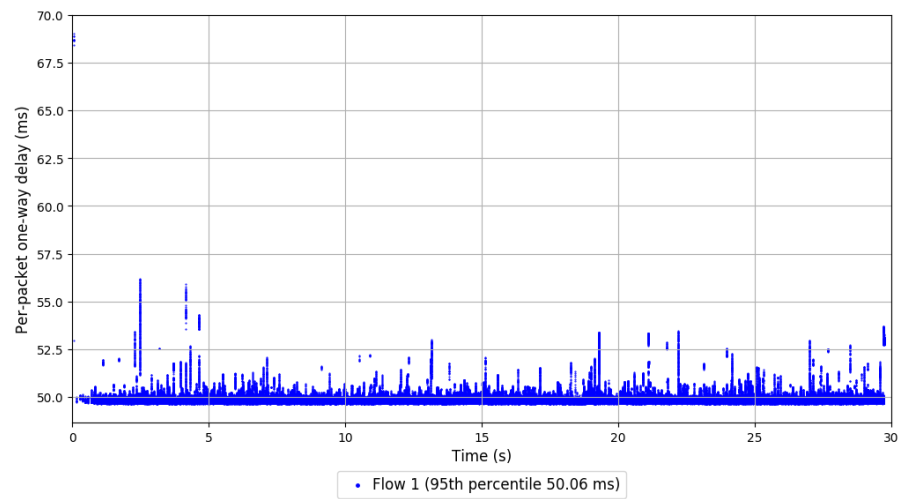
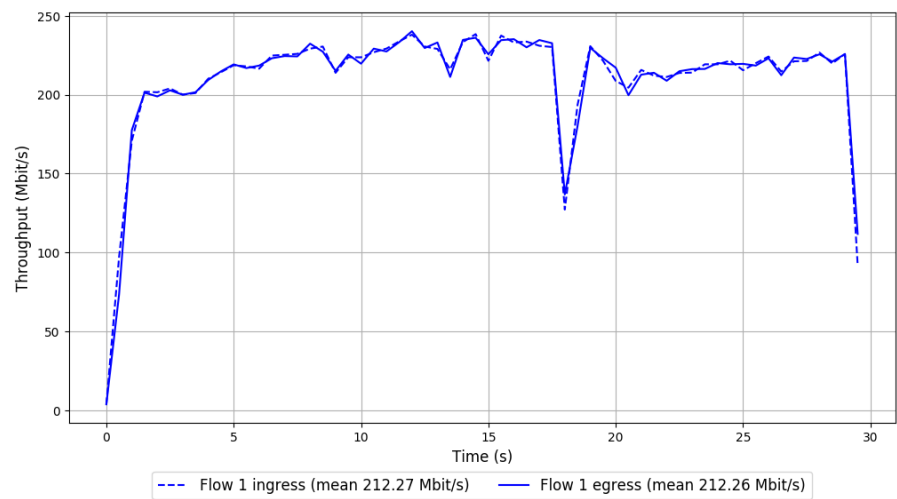
-- Flow 1:

Average throughput: 212.26 Mbit/s

95th percentile per-packet one-way delay: 50.062 ms

Loss rate: 0.01%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-20 05:04:51

End at: 2018-02-20 05:05:21

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.62 Mbit/s

95th percentile per-packet one-way delay: 53.086 ms

Loss rate: 0.00%

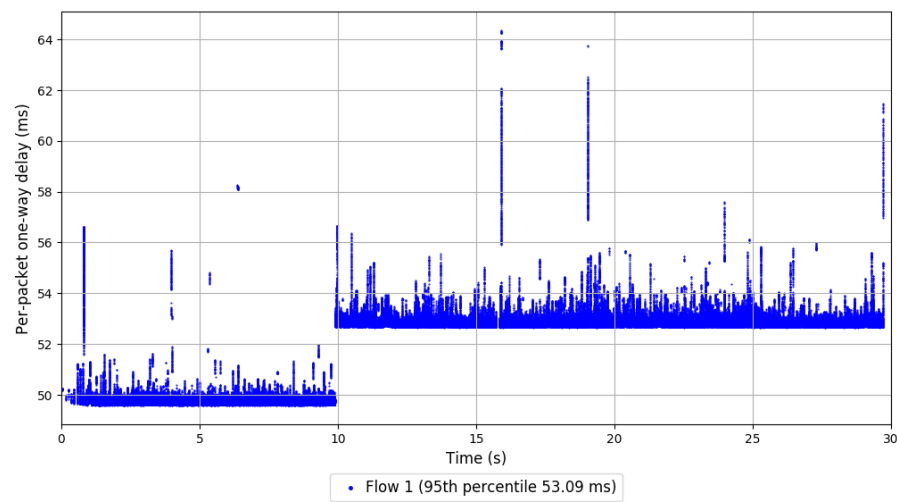
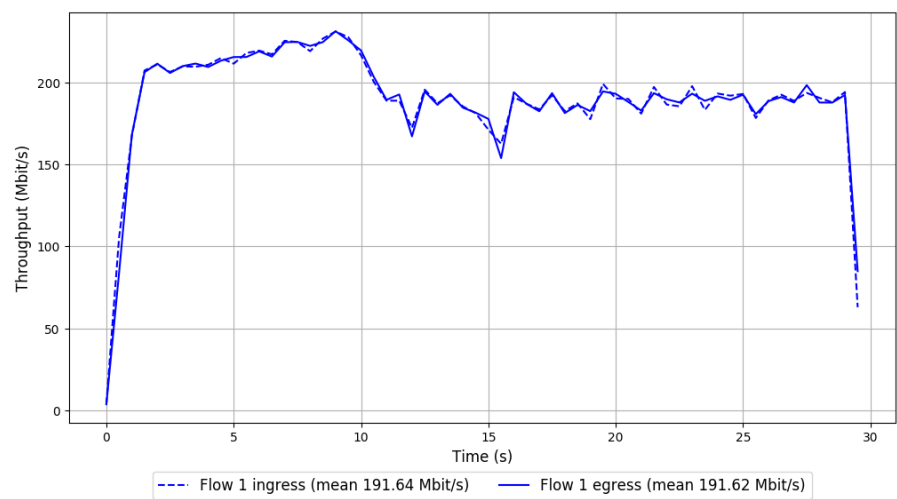
-- Flow 1:

Average throughput: 191.62 Mbit/s

95th percentile per-packet one-way delay: 53.086 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-20 05:19:21

End at: 2018-02-20 05:19:51

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.45 Mbit/s

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

Loss rate: 0.01%

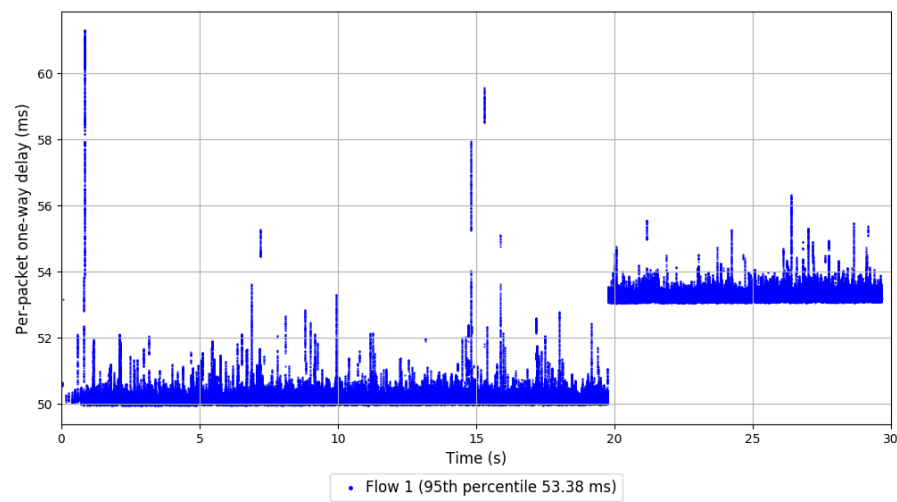
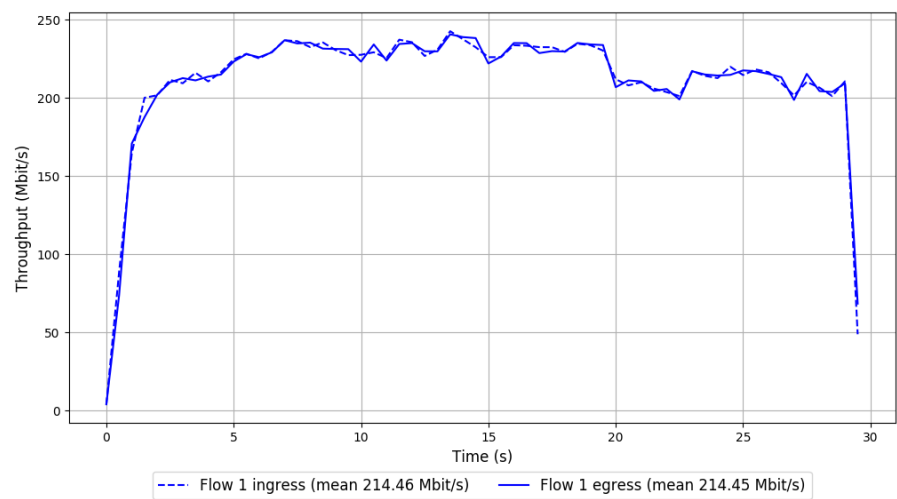
-- Flow 1:

Average throughput: 214.45 Mbit/s

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

Loss rate: 0.01%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-20 05:33:43

End at: 2018-02-20 05:34:13

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.62 Mbit/s

95th percentile per-packet one-way delay: 53.993 ms

Loss rate: 0.00%

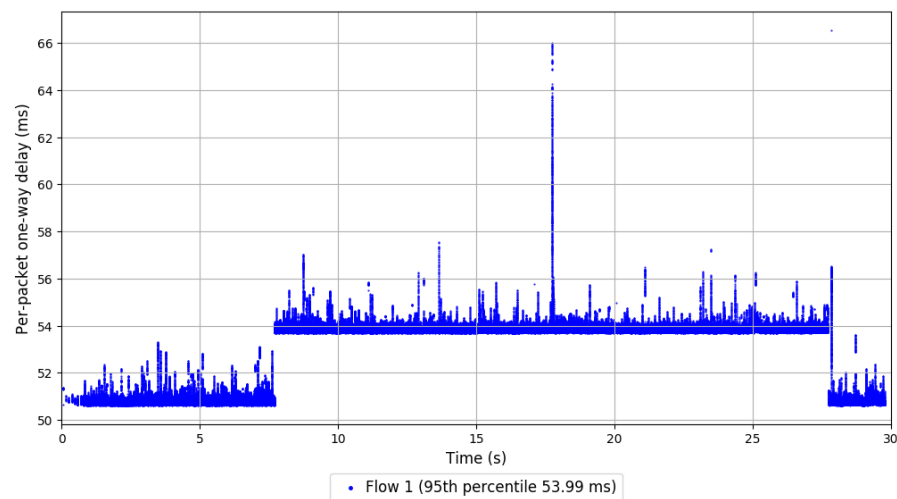
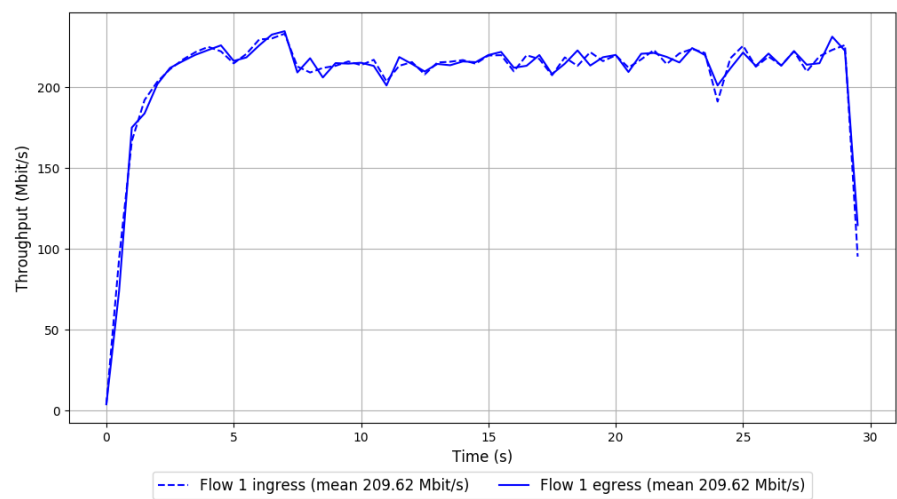
-- Flow 1:

Average throughput: 209.62 Mbit/s

95th percentile per-packet one-way delay: 53.993 ms

Loss rate: 0.00%

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

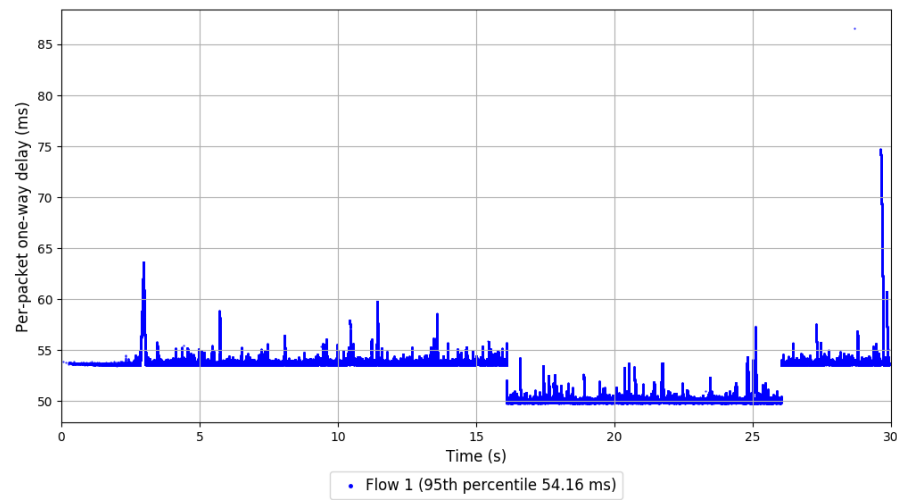
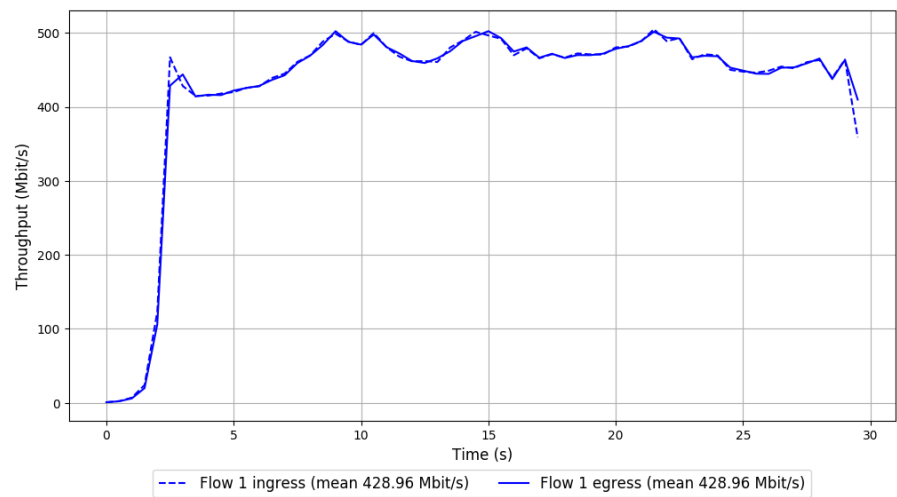


```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-20 03:17:15
End at: 2018-02-20 03:17:45

# Below is generated by plot.py at 2018-02-20 08:38:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 428.96 Mbit/s
95th percentile per-packet one-way delay: 54.156 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 428.96 Mbit/s
95th percentile per-packet one-way delay: 54.156 ms
Loss rate: 0.00%
```


Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-20 03:31:44

End at: 2018-02-20 03:32:14

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.32 Mbit/s

95th percentile per-packet one-way delay: 55.671 ms

Loss rate: 0.00%

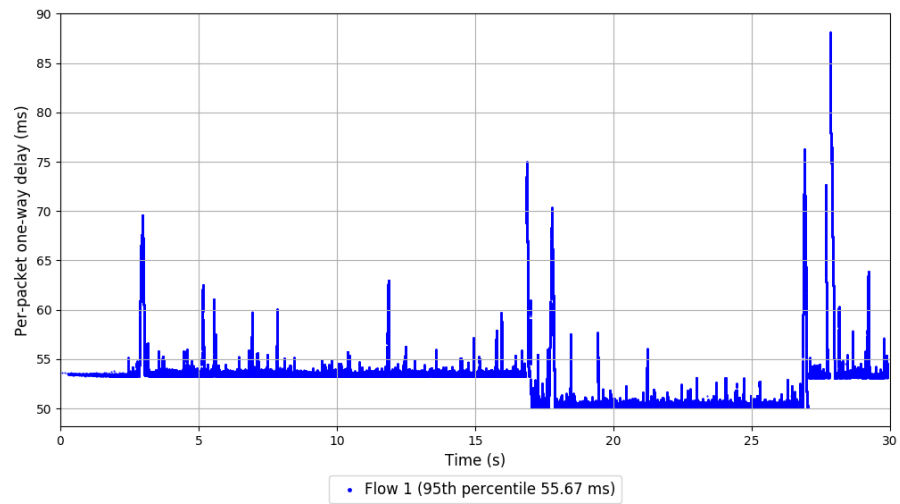
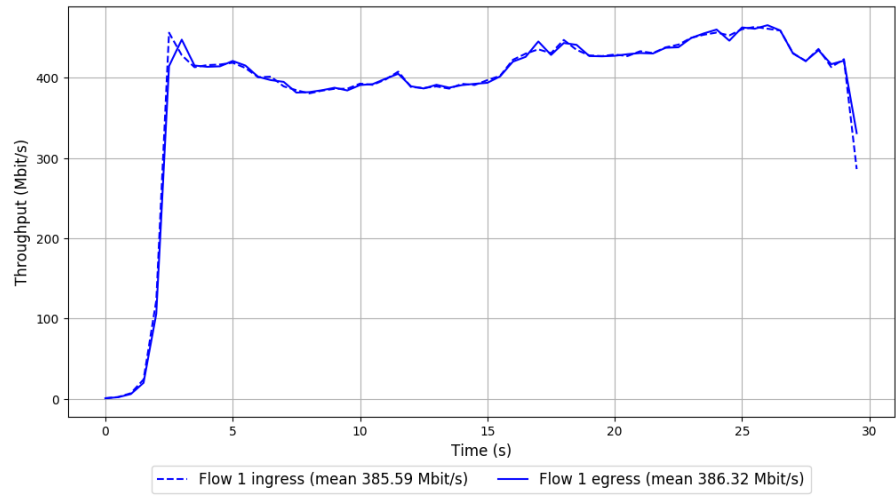
-- Flow 1:

Average throughput: 386.32 Mbit/s

95th percentile per-packet one-way delay: 55.671 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-20 03:46:38

End at: 2018-02-20 03:47:08

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.73 Mbit/s

95th percentile per-packet one-way delay: 53.750 ms

Loss rate: 0.00%

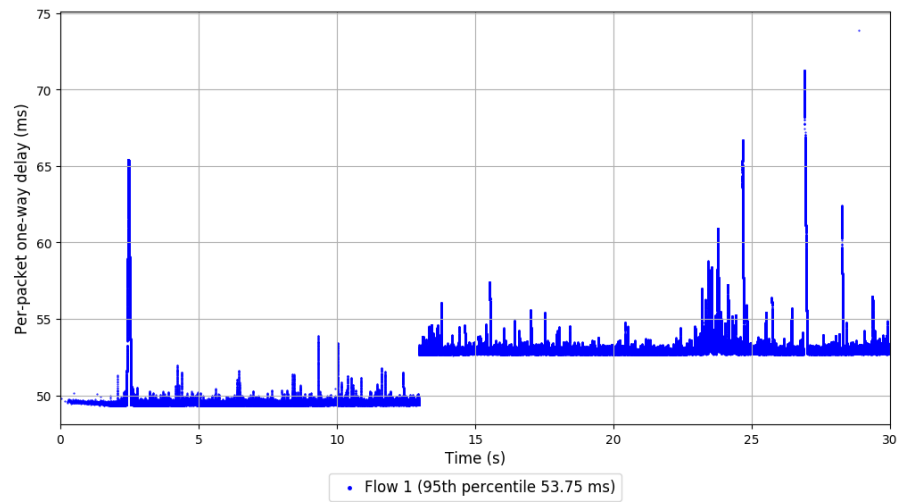
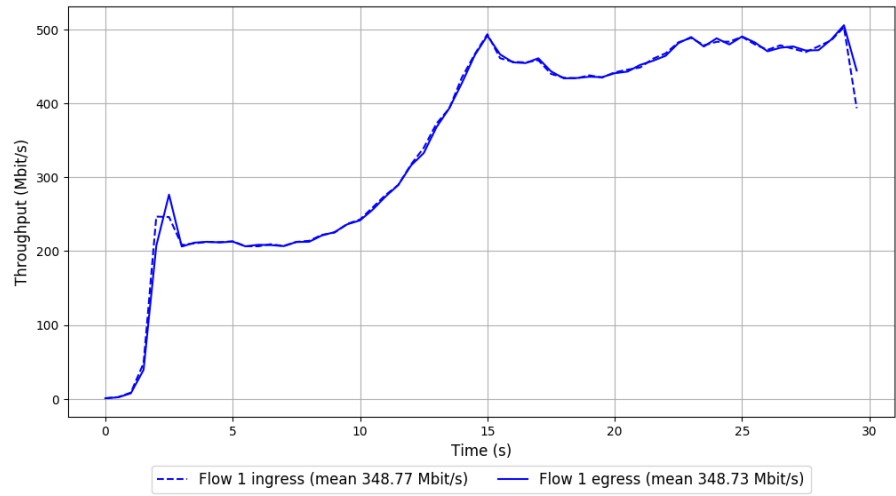
-- Flow 1:

Average throughput: 348.73 Mbit/s

95th percentile per-packet one-way delay: 53.750 ms

Loss rate: 0.00%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-20 04:01:04

End at: 2018-02-20 04:01:34

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.94 Mbit/s

95th percentile per-packet one-way delay: 61.797 ms

Loss rate: 0.08%

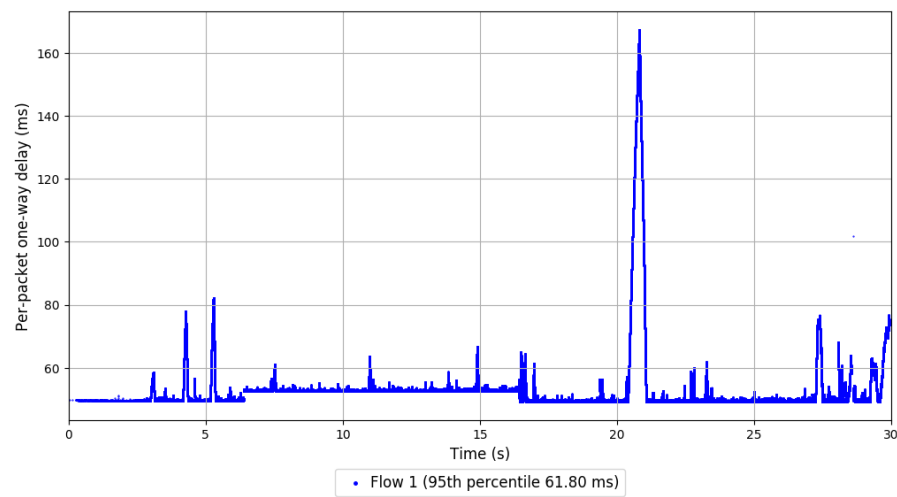
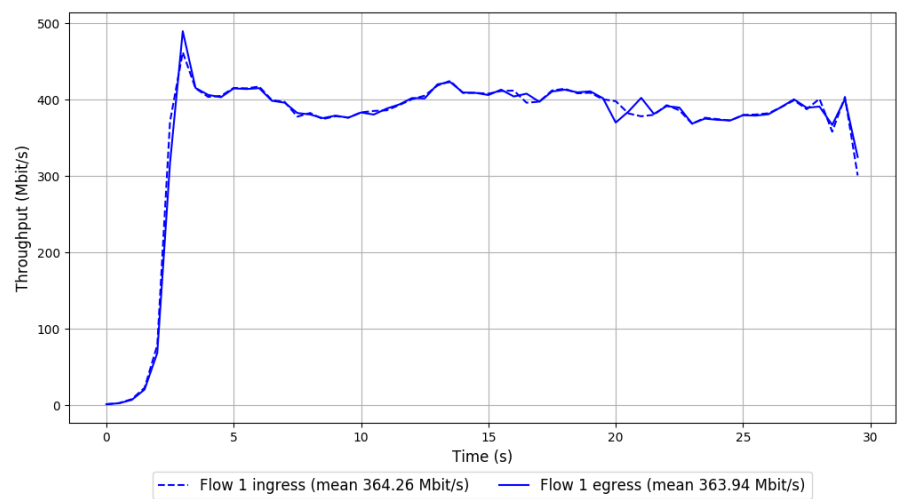
-- Flow 1:

Average throughput: 363.94 Mbit/s

95th percentile per-packet one-way delay: 61.797 ms

Loss rate: 0.08%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-20 04:15:31

End at: 2018-02-20 04:16:01

Below is generated by plot.py at 2018-02-20 08:38:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.96 Mbit/s

95th percentile per-packet one-way delay: 54.228 ms

Loss rate: 0.00%

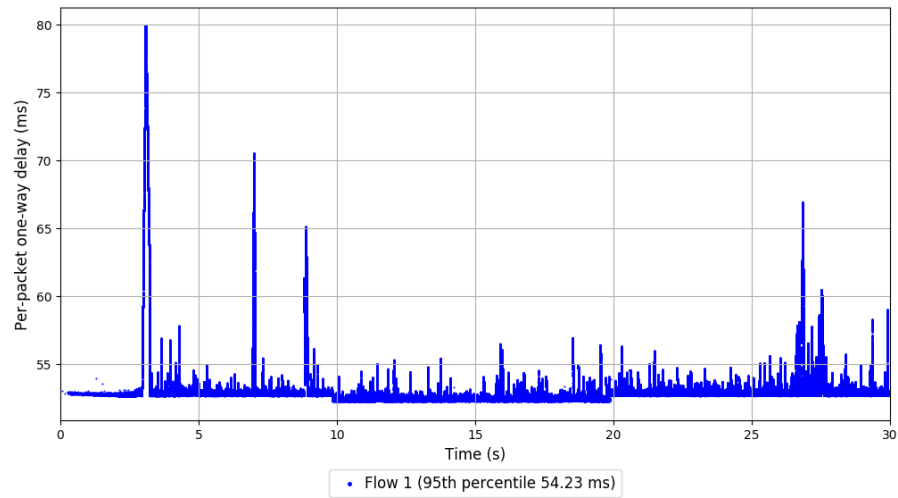
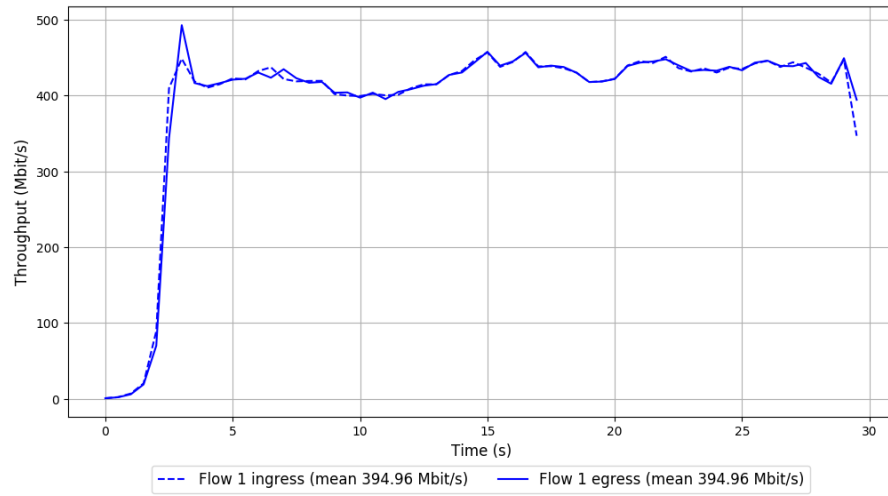
-- Flow 1:

Average throughput: 394.96 Mbit/s

95th percentile per-packet one-way delay: 54.228 ms

Loss rate: 0.00%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-20 04:30:19

End at: 2018-02-20 04:30:49

Below is generated by plot.py at 2018-02-20 08:40:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.53 Mbit/s

95th percentile per-packet one-way delay: 54.561 ms

Loss rate: 0.00%

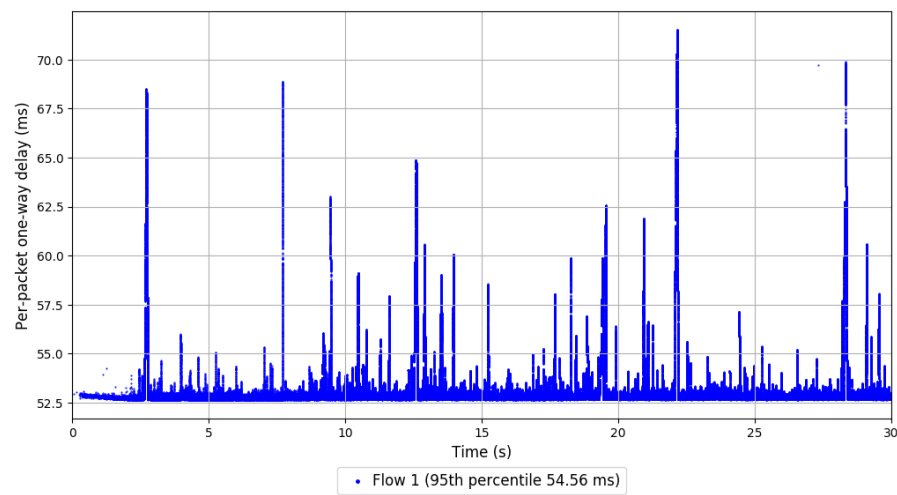
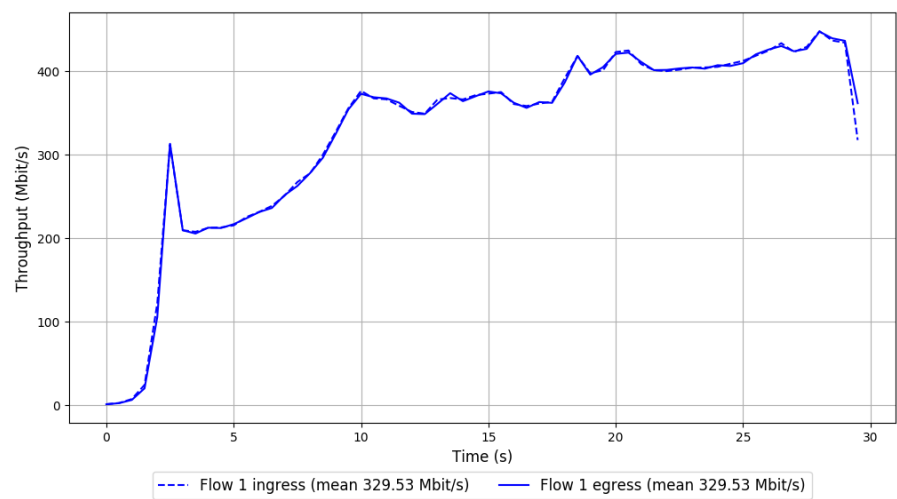
-- Flow 1:

Average throughput: 329.53 Mbit/s

95th percentile per-packet one-way delay: 54.561 ms

Loss rate: 0.00%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-20 04:44:33

End at: 2018-02-20 04:45:03

Below is generated by plot.py at 2018-02-20 08:41:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.25 Mbit/s

95th percentile per-packet one-way delay: 70.973 ms

Loss rate: 0.00%

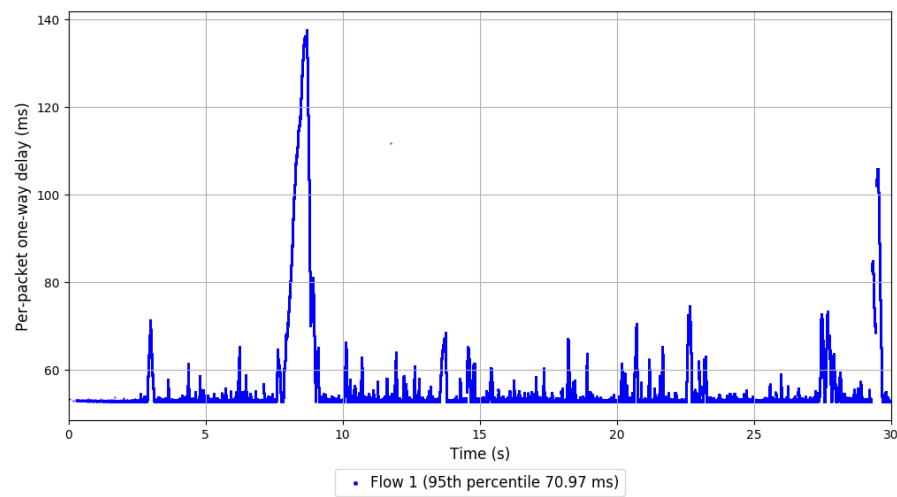
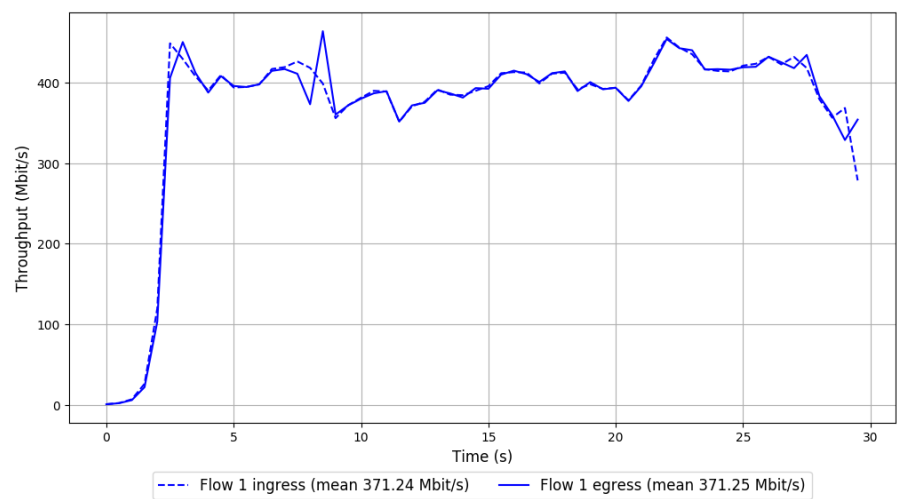
-- Flow 1:

Average throughput: 371.25 Mbit/s

95th percentile per-packet one-way delay: 70.973 ms

Loss rate: 0.00%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-20 04:59:00

End at: 2018-02-20 04:59:30

Below is generated by plot.py at 2018-02-20 08:41:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.71 Mbit/s

95th percentile per-packet one-way delay: 52.862 ms

Loss rate: 0.00%

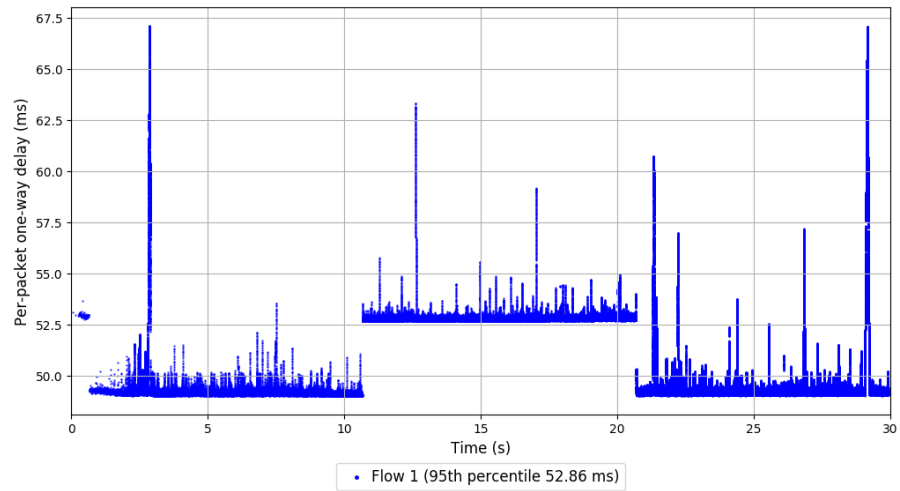
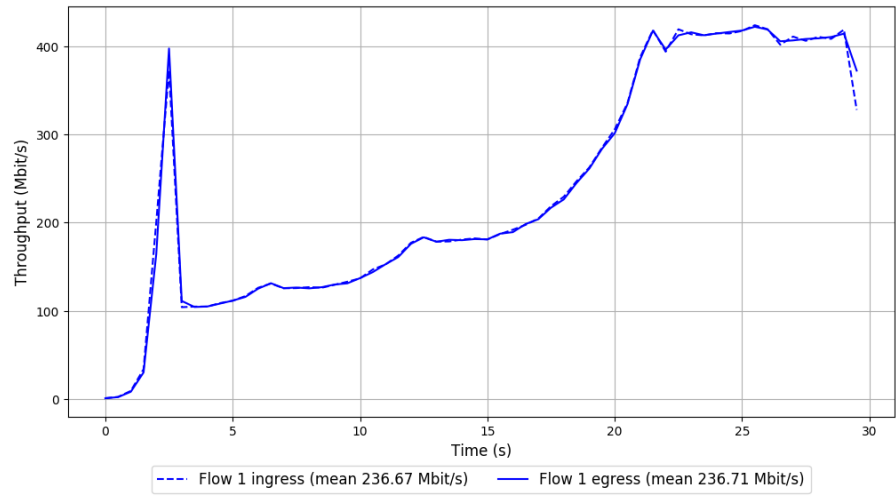
-- Flow 1:

Average throughput: 236.71 Mbit/s

95th percentile per-packet one-way delay: 52.862 ms

Loss rate: 0.00%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-20 05:13:29

End at: 2018-02-20 05:13:59

Below is generated by plot.py at 2018-02-20 08:41:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.93 Mbit/s

95th percentile per-packet one-way delay: 63.825 ms

Loss rate: 0.00%

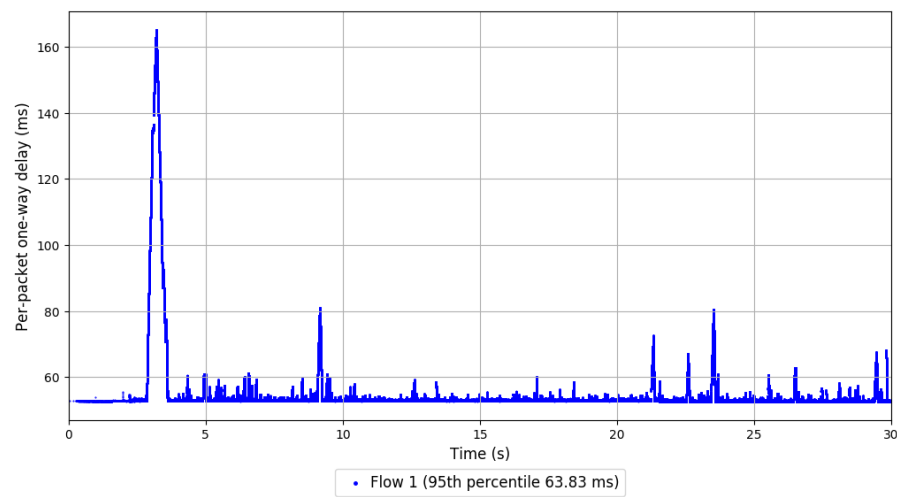
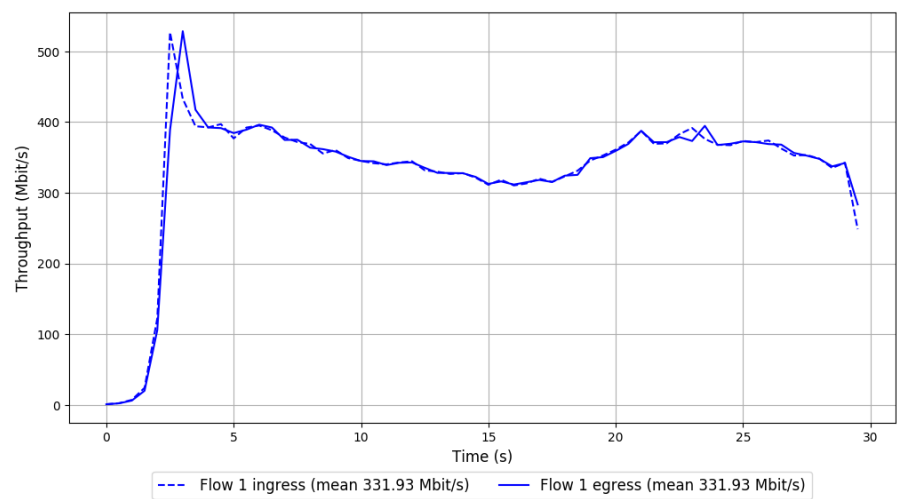
-- Flow 1:

Average throughput: 331.93 Mbit/s

95th percentile per-packet one-way delay: 63.825 ms

Loss rate: 0.00%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-20 05:27:58

End at: 2018-02-20 05:28:28

Below is generated by plot.py at 2018-02-20 08:42:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.02 Mbit/s

95th percentile per-packet one-way delay: 161.937 ms

Loss rate: 0.25%

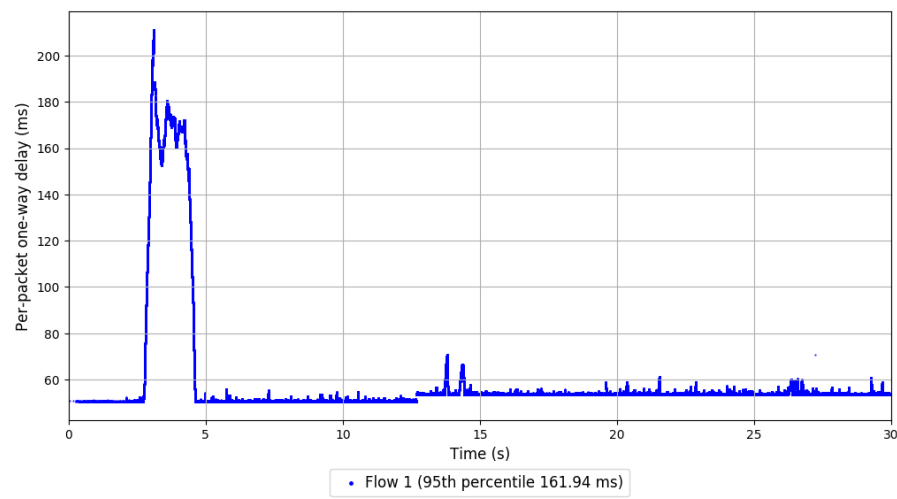
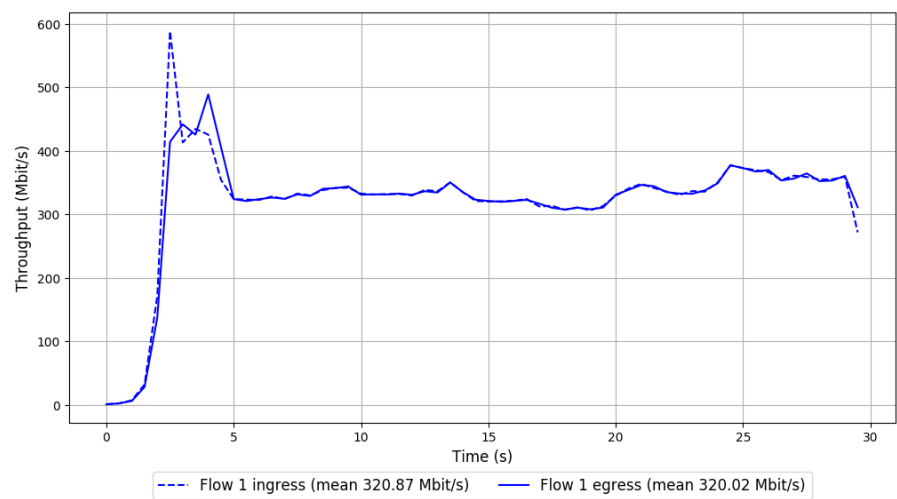
-- Flow 1:

Average throughput: 320.02 Mbit/s

95th percentile per-packet one-way delay: 161.937 ms

Loss rate: 0.25%

Run 10: Report of Vivace-latency — Data Link

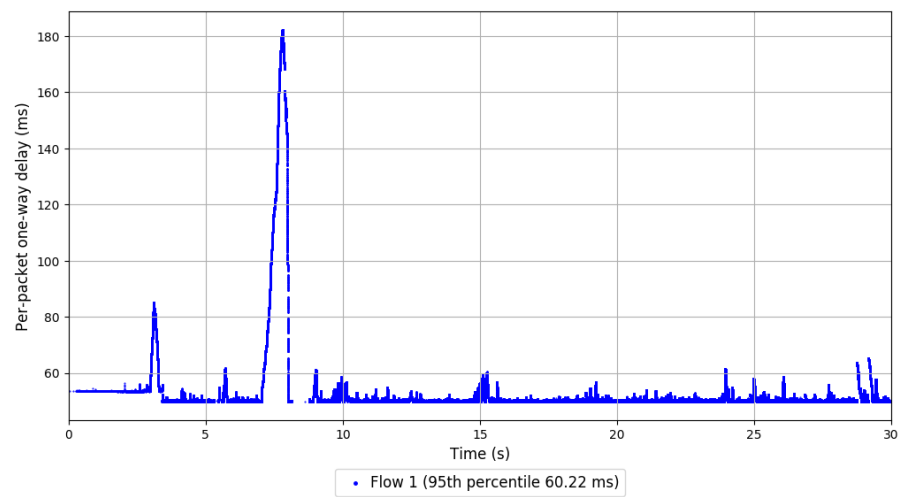
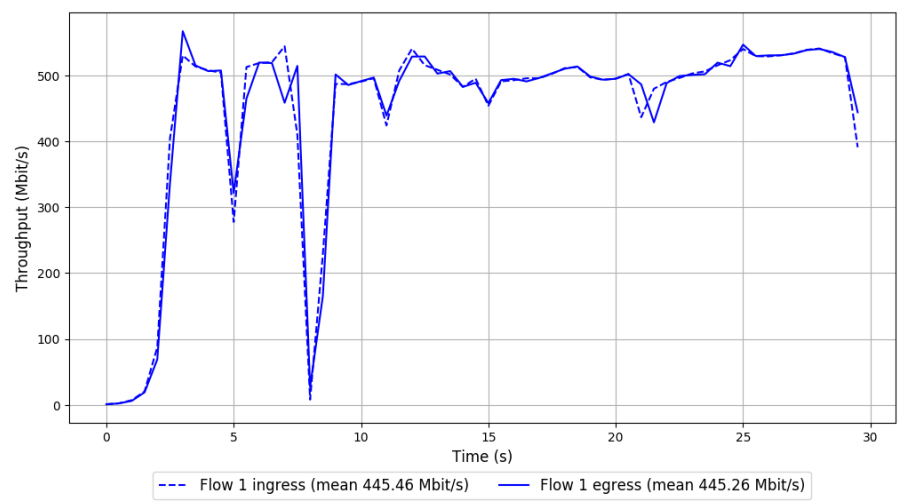


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-20 03:15:17
End at: 2018-02-20 03:15:47

# Below is generated by plot.py at 2018-02-20 08:45:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 445.26 Mbit/s
95th percentile per-packet one-way delay: 60.216 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 445.26 Mbit/s
95th percentile per-packet one-way delay: 60.216 ms
Loss rate: 0.06%
```

Run 1: Report of Vivace-loss — Data Link

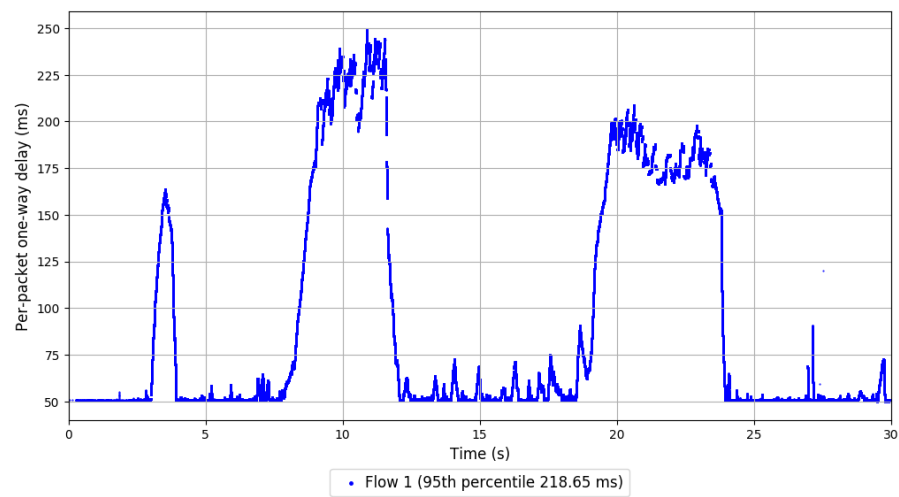
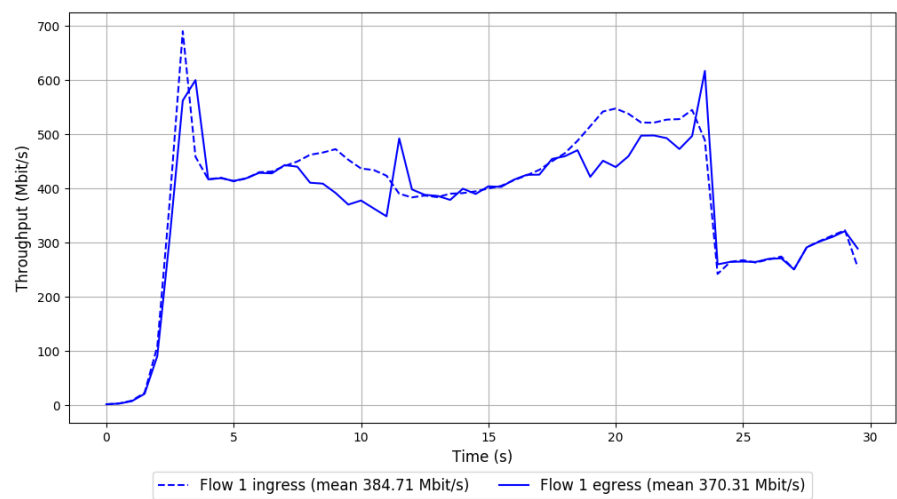


```
Run 2: Statistics of Vivace-loss

Start at: 2018-02-20 03:29:51
End at: 2018-02-20 03:30:21

# Below is generated by plot.py at 2018-02-20 08:45:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 370.31 Mbit/s
95th percentile per-packet one-way delay: 218.648 ms
Loss rate: 3.75%
-- Flow 1:
Average throughput: 370.31 Mbit/s
95th percentile per-packet one-way delay: 218.648 ms
Loss rate: 3.75%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-20 03:44:42

End at: 2018-02-20 03:45:12

Below is generated by plot.py at 2018-02-20 08:46:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.97 Mbit/s

95th percentile per-packet one-way delay: 56.819 ms

Loss rate: 0.39%

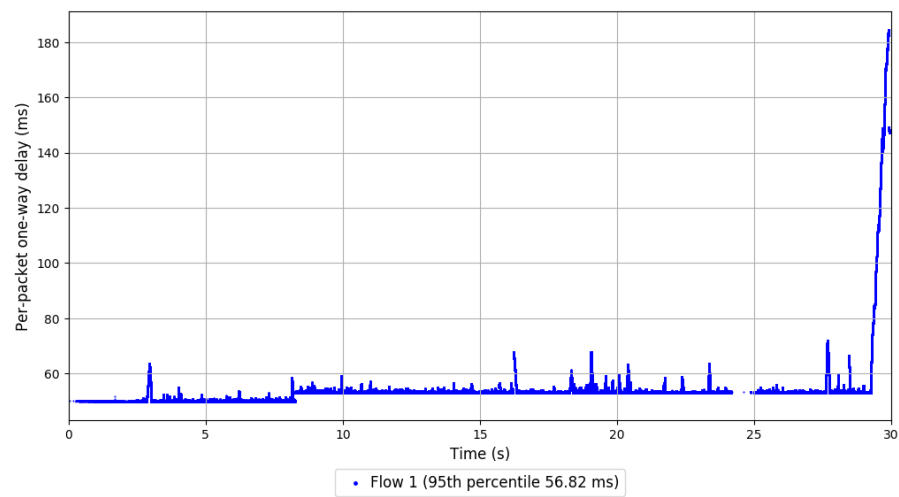
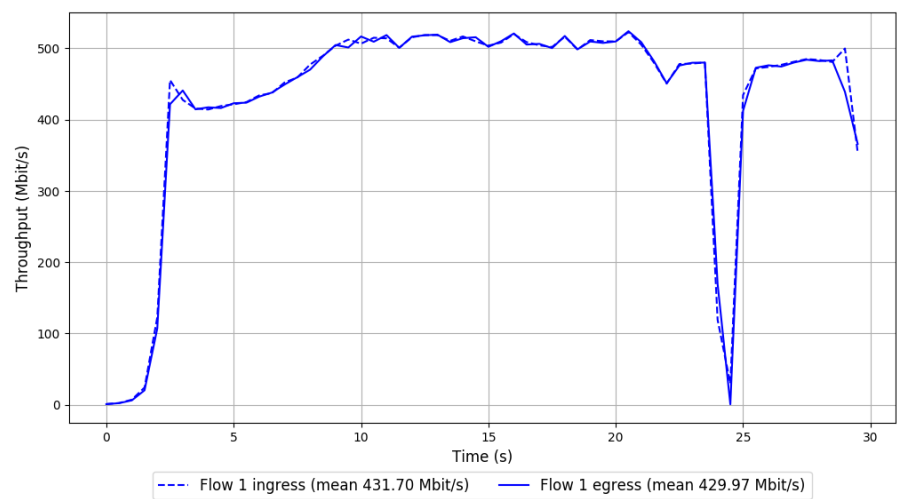
-- Flow 1:

Average throughput: 429.97 Mbit/s

95th percentile per-packet one-way delay: 56.819 ms

Loss rate: 0.39%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-20 03:59:09

End at: 2018-02-20 03:59:39

Below is generated by plot.py at 2018-02-20 08:47:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.97 Mbit/s

95th percentile per-packet one-way delay: 167.131 ms

Loss rate: 1.28%

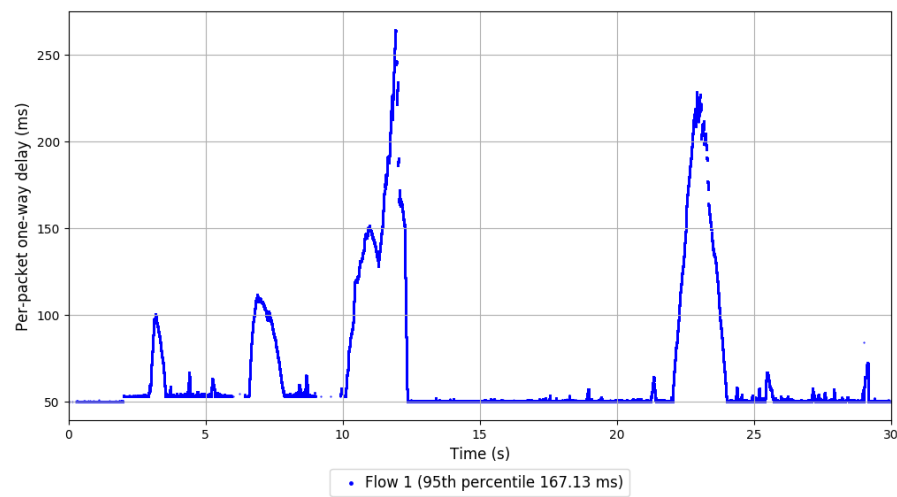
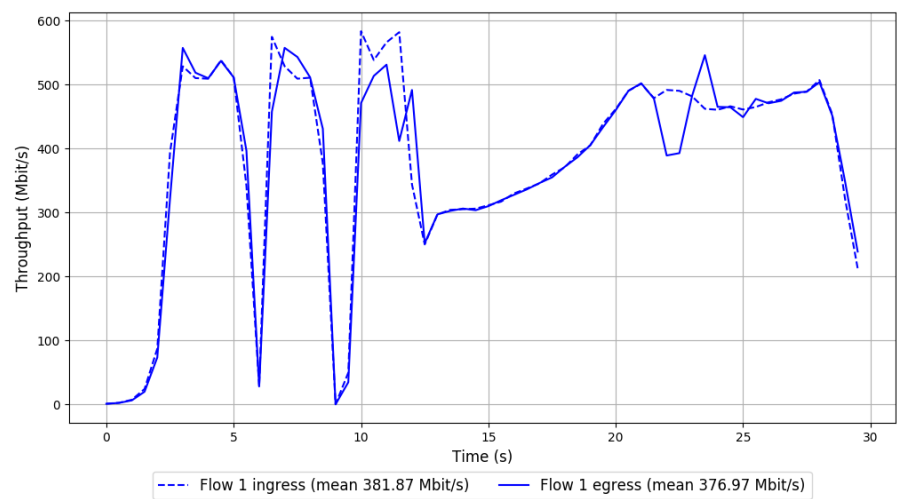
-- Flow 1:

Average throughput: 376.97 Mbit/s

95th percentile per-packet one-way delay: 167.131 ms

Loss rate: 1.28%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-20 04:13:32

End at: 2018-02-20 04:14:02

Below is generated by plot.py at 2018-02-20 08:48:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.53 Mbit/s

95th percentile per-packet one-way delay: 167.347 ms

Loss rate: 2.89%

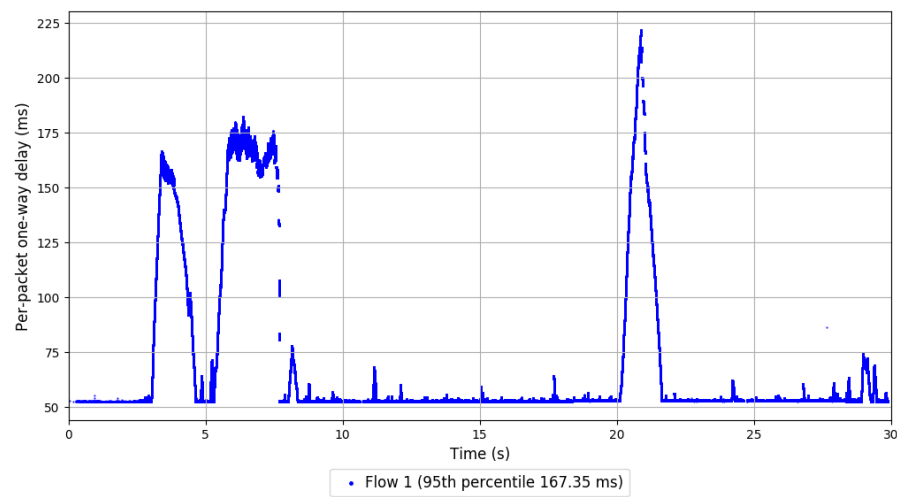
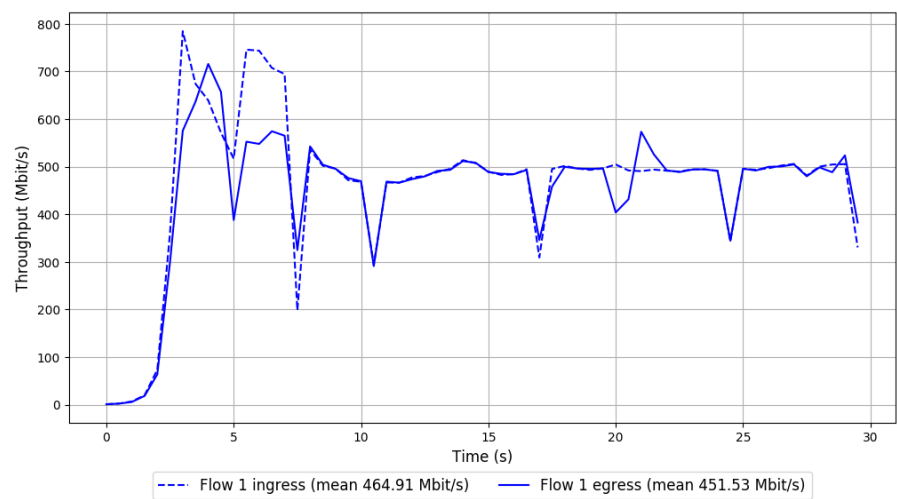
-- Flow 1:

Average throughput: 451.53 Mbit/s

95th percentile per-packet one-way delay: 167.347 ms

Loss rate: 2.89%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-20 04:28:25

End at: 2018-02-20 04:28:56

Below is generated by plot.py at 2018-02-20 08:48:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.23 Mbit/s

95th percentile per-packet one-way delay: 83.813 ms

Loss rate: 1.54%

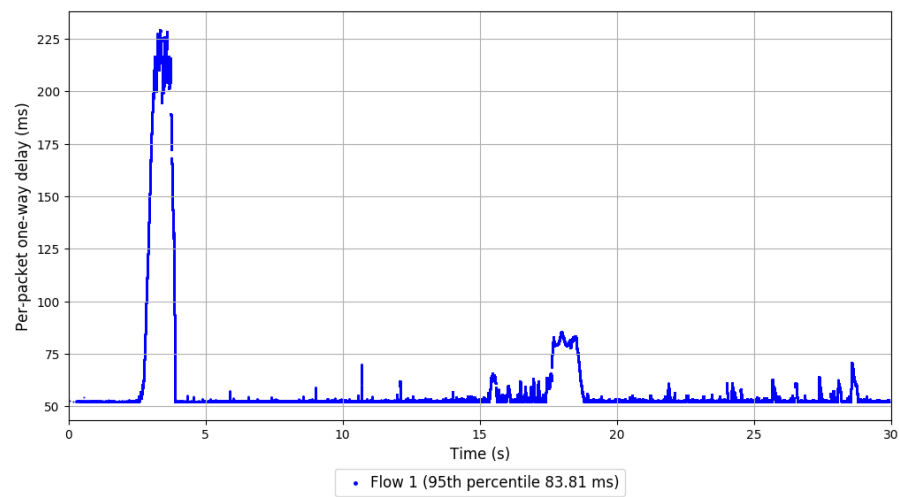
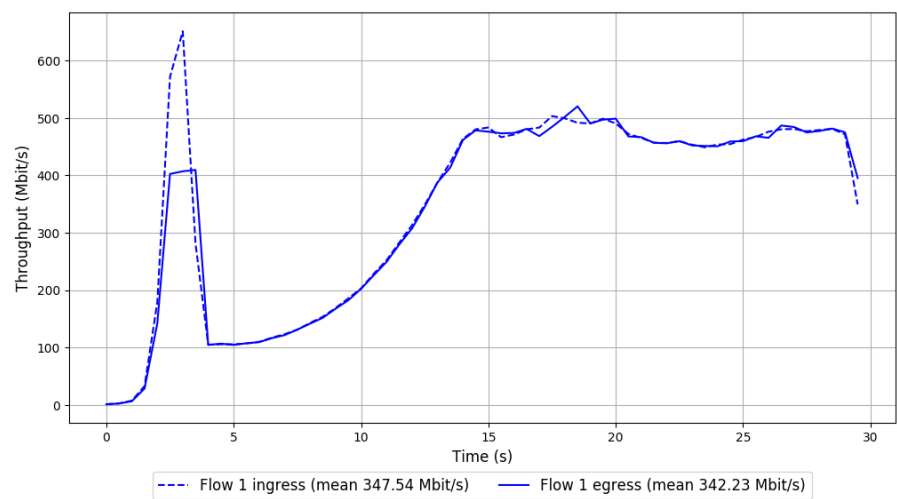
-- Flow 1:

Average throughput: 342.23 Mbit/s

95th percentile per-packet one-way delay: 83.813 ms

Loss rate: 1.54%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-20 04:42:37

End at: 2018-02-20 04:43:07

Below is generated by plot.py at 2018-02-20 08:49:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.22 Mbit/s

95th percentile per-packet one-way delay: 165.962 ms

Loss rate: 0.73%

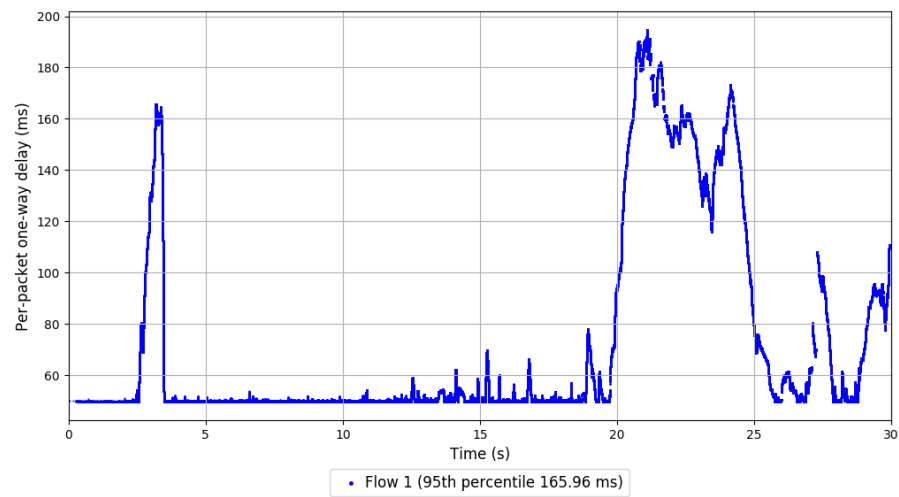
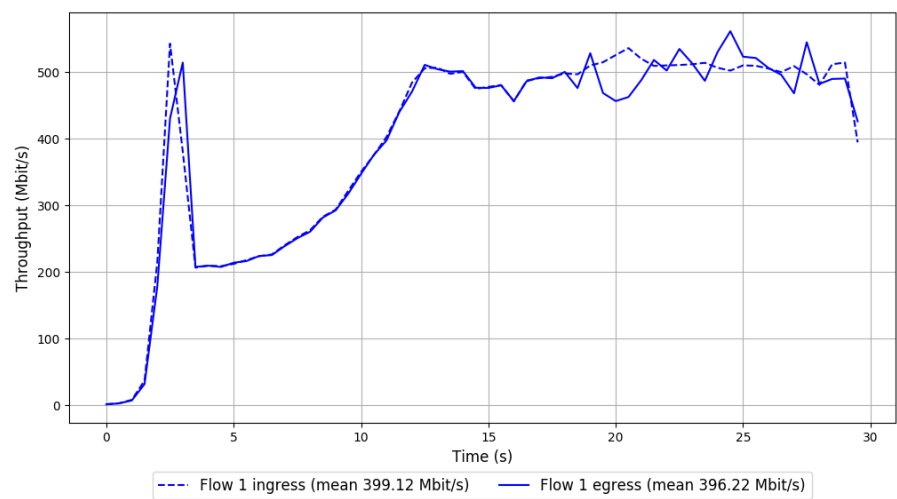
-- Flow 1:

Average throughput: 396.22 Mbit/s

95th percentile per-packet one-way delay: 165.962 ms

Loss rate: 0.73%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-20 04:57:05

End at: 2018-02-20 04:57:35

Below is generated by plot.py at 2018-02-20 08:51:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.30 Mbit/s

95th percentile per-packet one-way delay: 142.410 ms

Loss rate: 0.62%

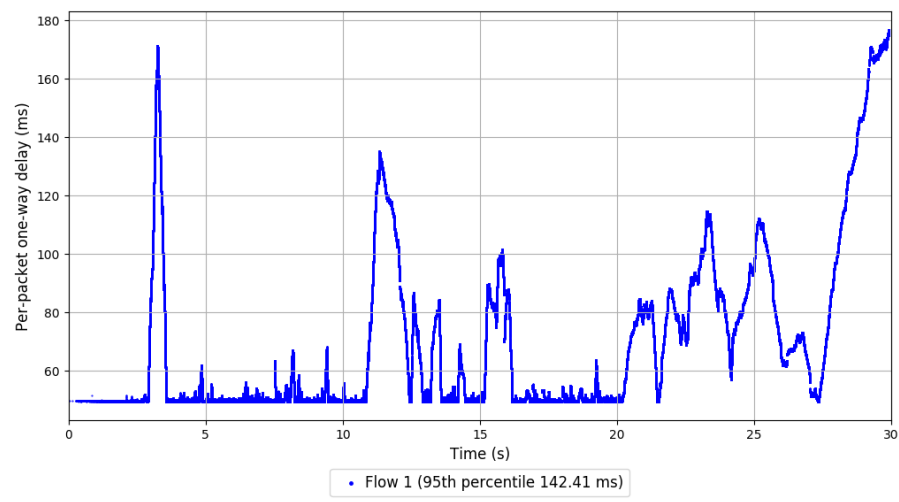
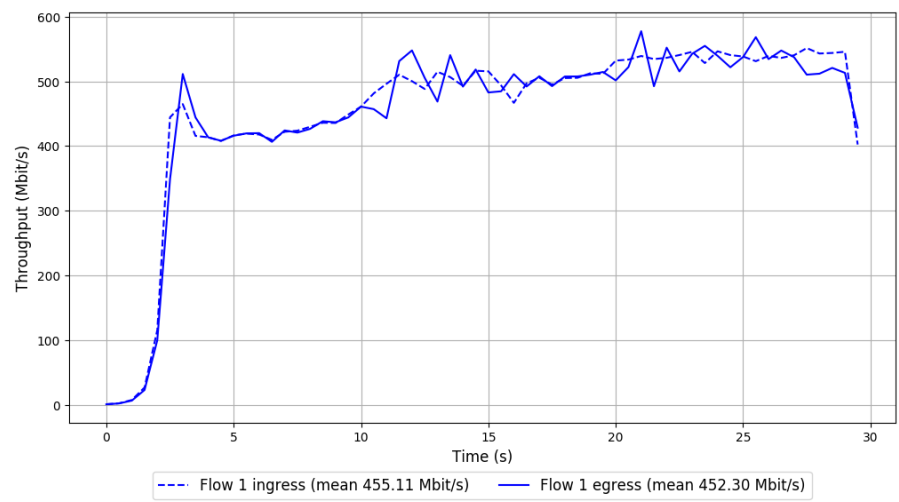
-- Flow 1:

Average throughput: 452.30 Mbit/s

95th percentile per-packet one-way delay: 142.410 ms

Loss rate: 0.62%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-20 05:11:30

End at: 2018-02-20 05:12:00

Below is generated by plot.py at 2018-02-20 08:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.25 Mbit/s

95th percentile per-packet one-way delay: 126.697 ms

Loss rate: 0.00%

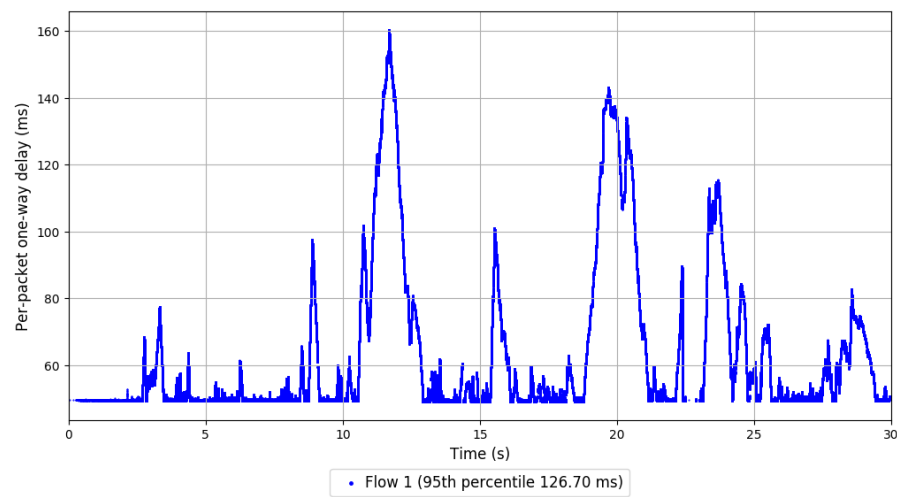
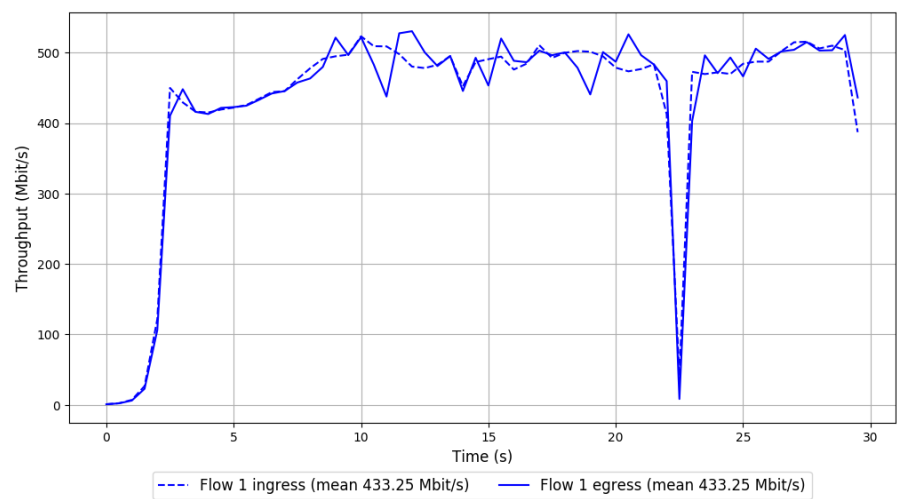
-- Flow 1:

Average throughput: 433.25 Mbit/s

95th percentile per-packet one-way delay: 126.697 ms

Loss rate: 0.00%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-20 05:26:01

End at: 2018-02-20 05:26:31

Below is generated by plot.py at 2018-02-20 08:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.57 Mbit/s

95th percentile per-packet one-way delay: 152.640 ms

Loss rate: 1.20%

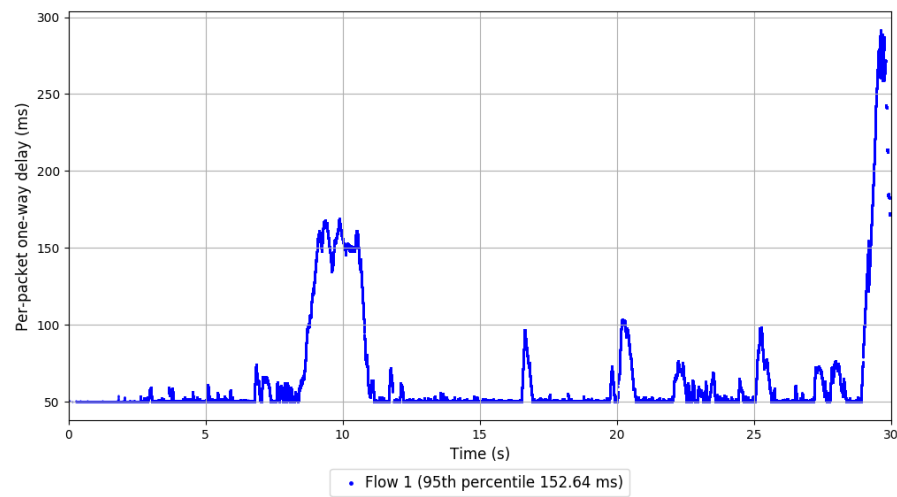
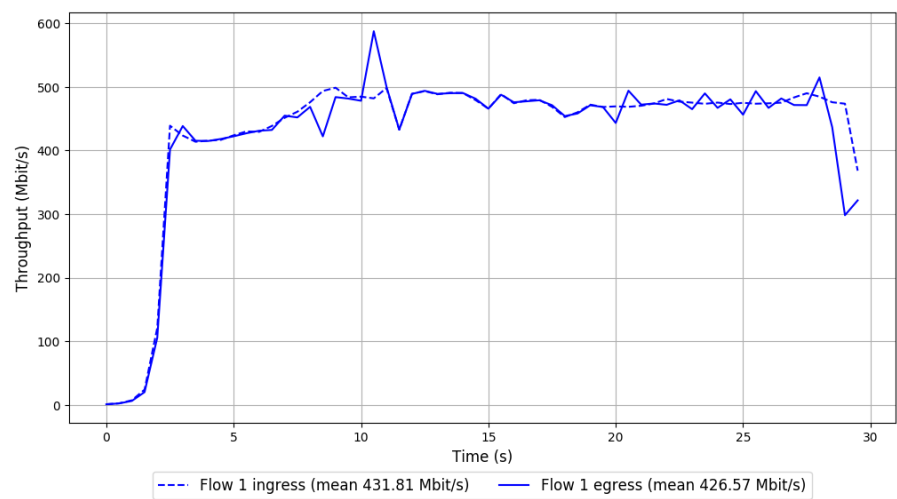
-- Flow 1:

Average throughput: 426.57 Mbit/s

95th percentile per-packet one-way delay: 152.640 ms

Loss rate: 1.20%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-02-20 03:24:04

End at: 2018-02-20 03:24:34

Below is generated by plot.py at 2018-02-20 08:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.12 Mbit/s

95th percentile per-packet one-way delay: 54.870 ms

Loss rate: 0.00%

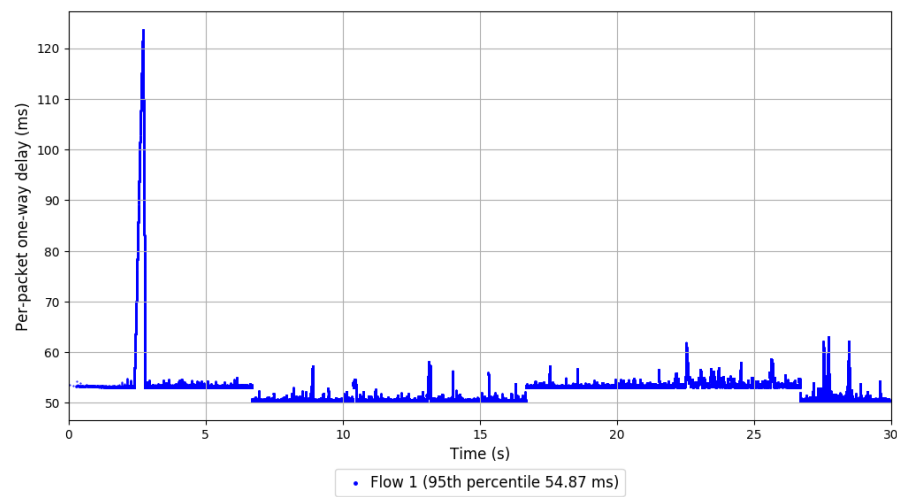
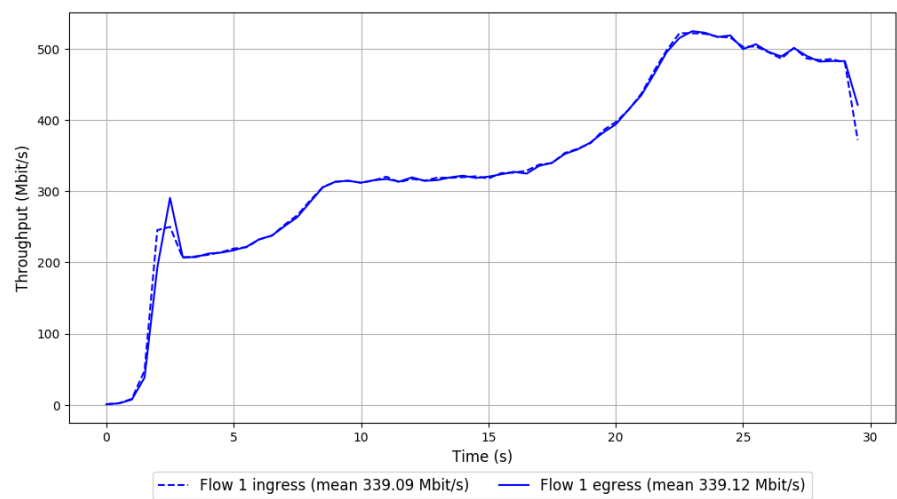
-- Flow 1:

Average throughput: 339.12 Mbit/s

95th percentile per-packet one-way delay: 54.870 ms

Loss rate: 0.00%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-20 03:38:27

End at: 2018-02-20 03:38:57

Below is generated by plot.py at 2018-02-20 08:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.10 Mbit/s

95th percentile per-packet one-way delay: 54.906 ms

Loss rate: 0.00%

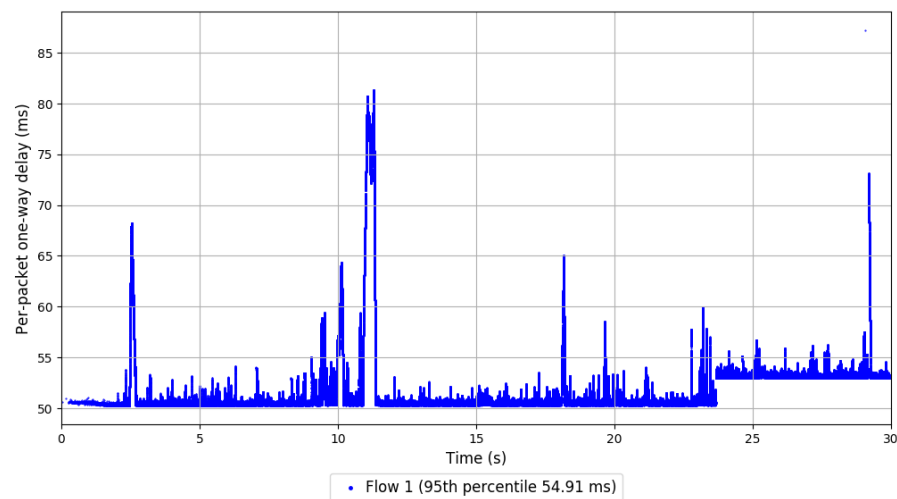
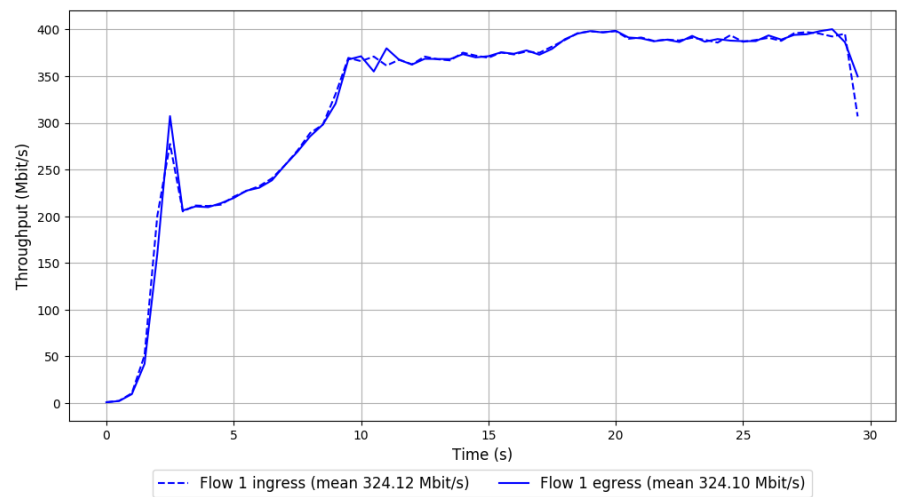
-- Flow 1:

Average throughput: 324.10 Mbit/s

95th percentile per-packet one-way delay: 54.906 ms

Loss rate: 0.00%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-20 03:53:16

End at: 2018-02-20 03:53:46

Below is generated by plot.py at 2018-02-20 08:56:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 420.40 Mbit/s

95th percentile per-packet one-way delay: 63.335 ms

Loss rate: 0.43%

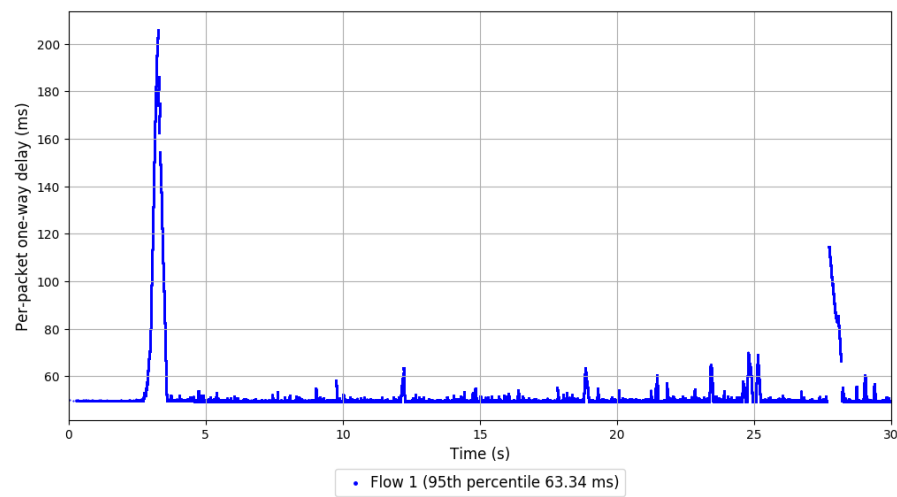
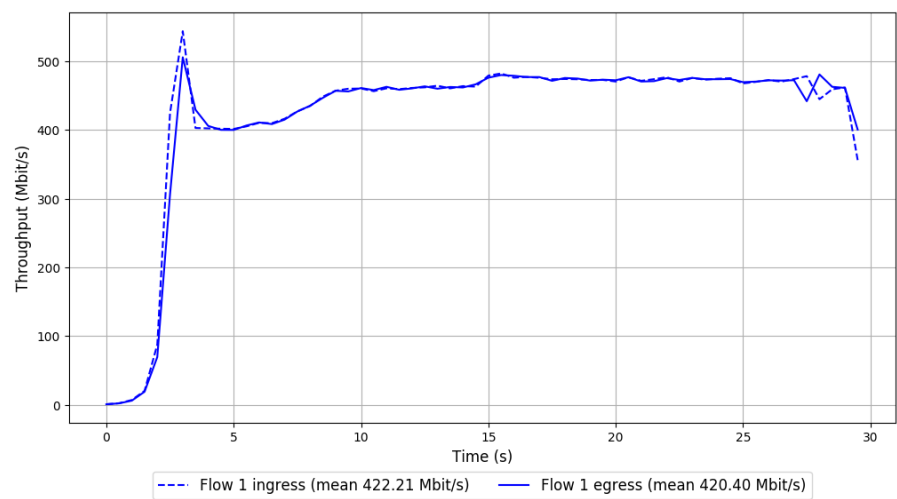
-- Flow 1:

Average throughput: 420.40 Mbit/s

95th percentile per-packet one-way delay: 63.335 ms

Loss rate: 0.43%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-20 04:07:41

End at: 2018-02-20 04:08:11

Below is generated by plot.py at 2018-02-20 08:56:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.68 Mbit/s

95th percentile per-packet one-way delay: 58.921 ms

Loss rate: 0.00%

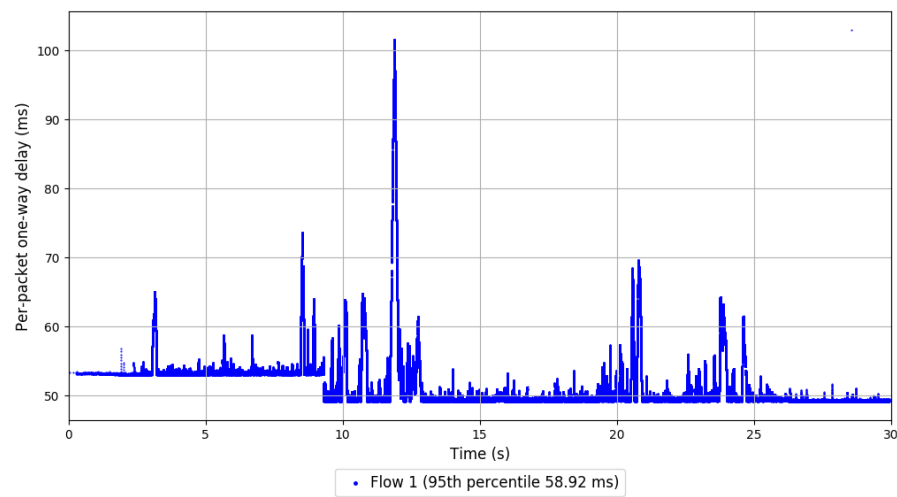
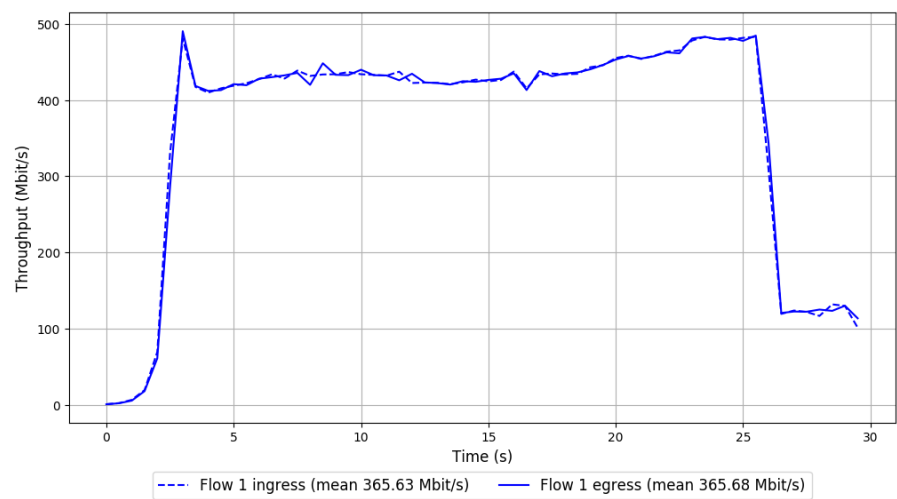
-- Flow 1:

Average throughput: 365.68 Mbit/s

95th percentile per-packet one-way delay: 58.921 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-20 04:22:34

End at: 2018-02-20 04:23:04

Below is generated by plot.py at 2018-02-20 08:56:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.94 Mbit/s

95th percentile per-packet one-way delay: 63.544 ms

Loss rate: 0.00%

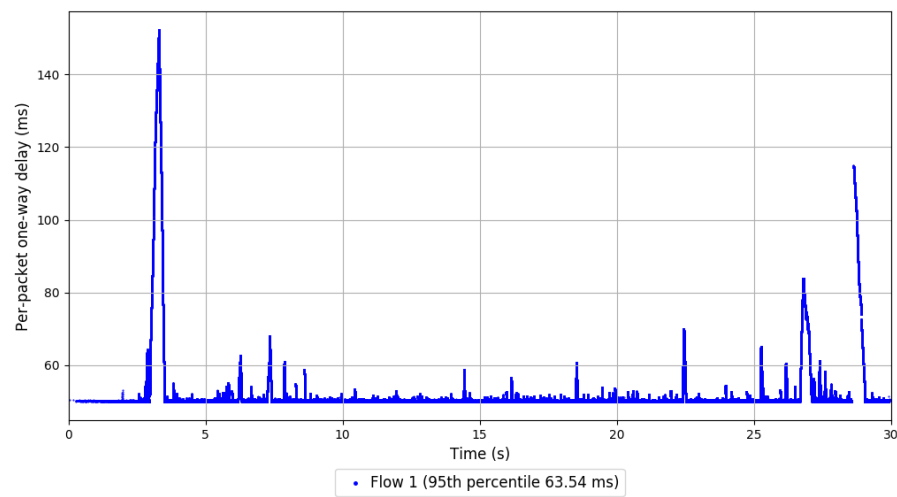
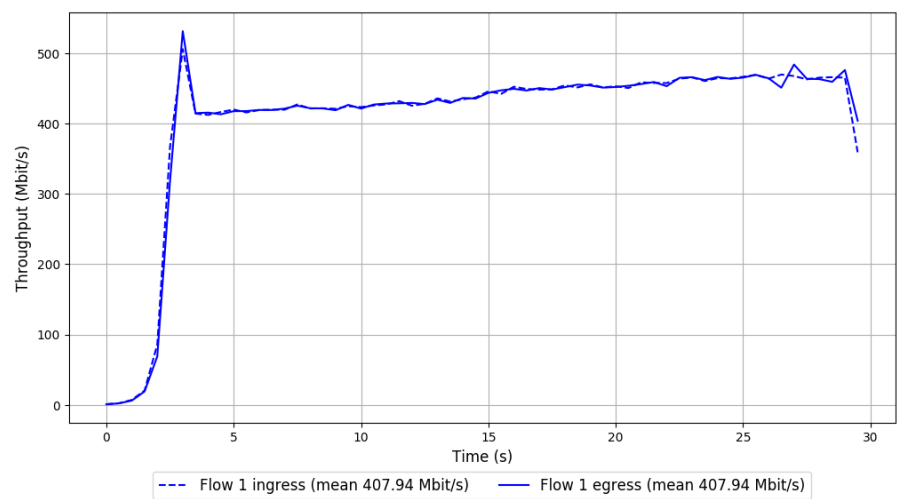
-- Flow 1:

Average throughput: 407.94 Mbit/s

95th percentile per-packet one-way delay: 63.544 ms

Loss rate: 0.00%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-20 04:36:52

End at: 2018-02-20 04:37:22

Below is generated by plot.py at 2018-02-20 08:56:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.91 Mbit/s

95th percentile per-packet one-way delay: 55.009 ms

Loss rate: 0.00%

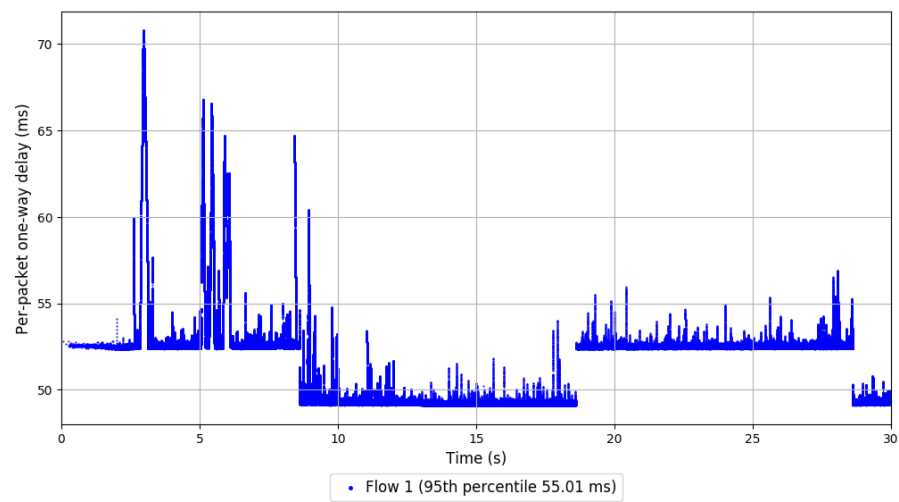
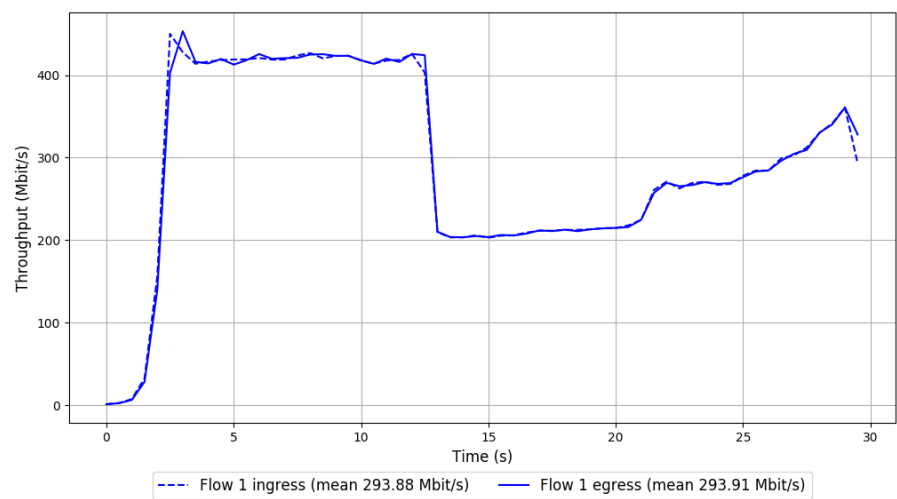
-- Flow 1:

Average throughput: 293.91 Mbit/s

95th percentile per-packet one-way delay: 55.009 ms

Loss rate: 0.00%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-20 04:51:21

End at: 2018-02-20 04:51:51

Below is generated by plot.py at 2018-02-20 08:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.22 Mbit/s

95th percentile per-packet one-way delay: 151.490 ms

Loss rate: 0.92%

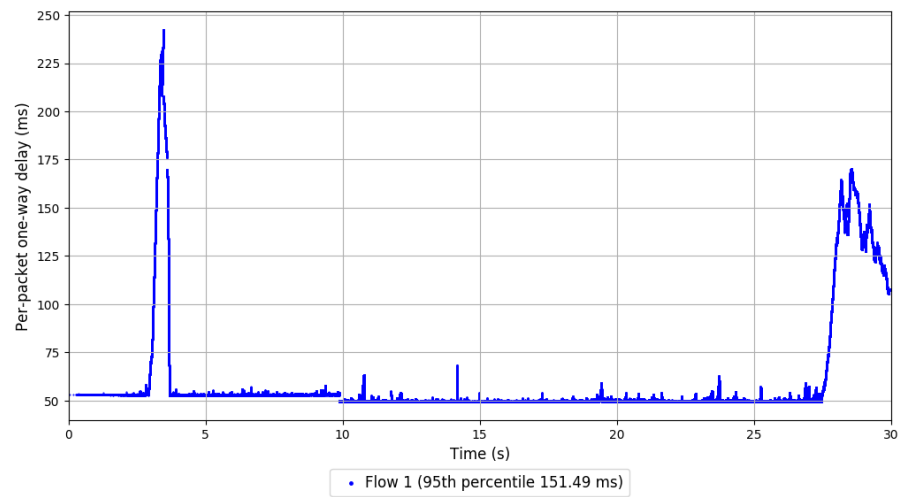
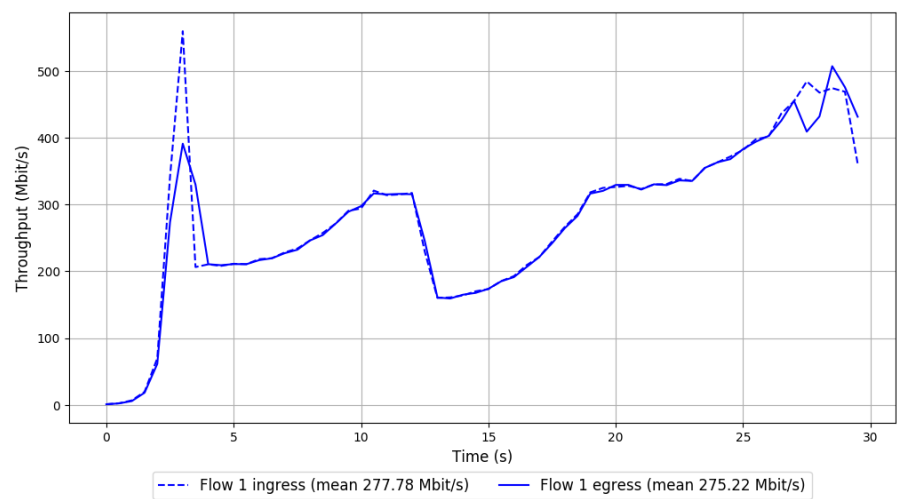
-- Flow 1:

Average throughput: 275.22 Mbit/s

95th percentile per-packet one-way delay: 151.490 ms

Loss rate: 0.92%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-20 05:05:41

End at: 2018-02-20 05:06:11

Below is generated by plot.py at 2018-02-20 08:57:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 312.99 Mbit/s

95th percentile per-packet one-way delay: 54.704 ms

Loss rate: 0.00%

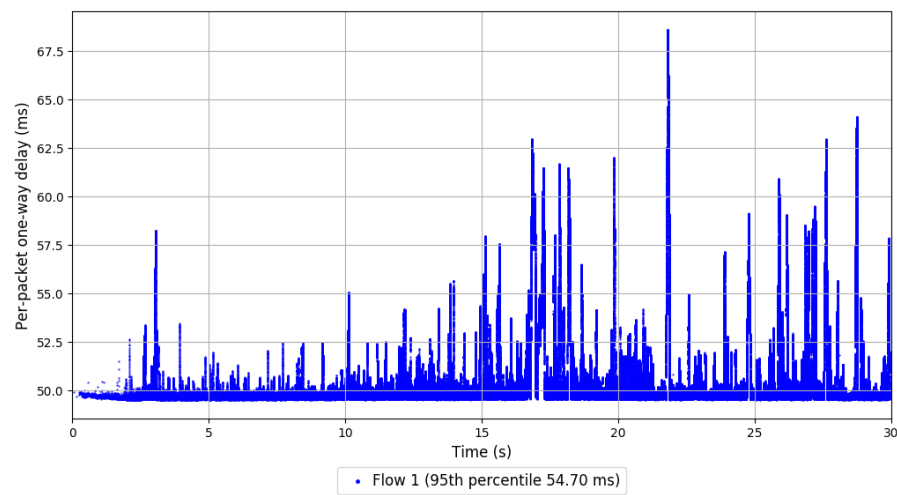
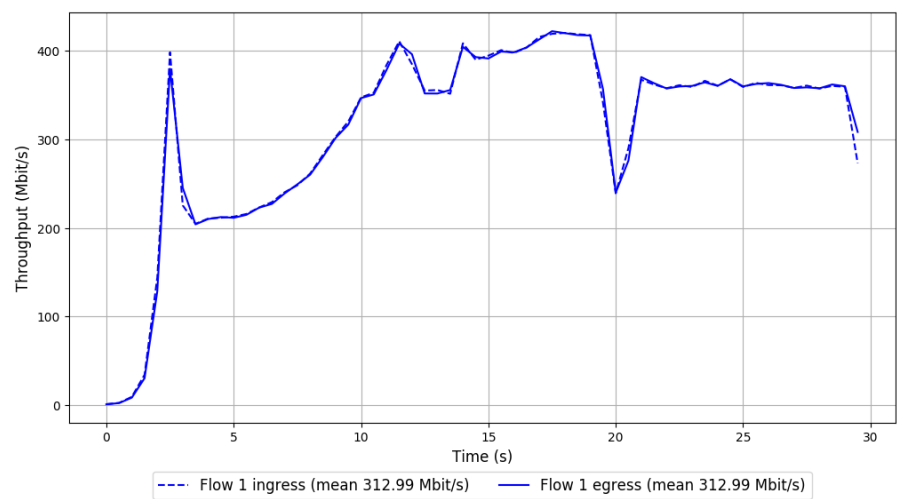
-- Flow 1:

Average throughput: 312.99 Mbit/s

95th percentile per-packet one-way delay: 54.704 ms

Loss rate: 0.00%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-20 05:20:11

End at: 2018-02-20 05:20:41

Below is generated by plot.py at 2018-02-20 08:57:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.01 Mbit/s

95th percentile per-packet one-way delay: 67.940 ms

Loss rate: 0.10%

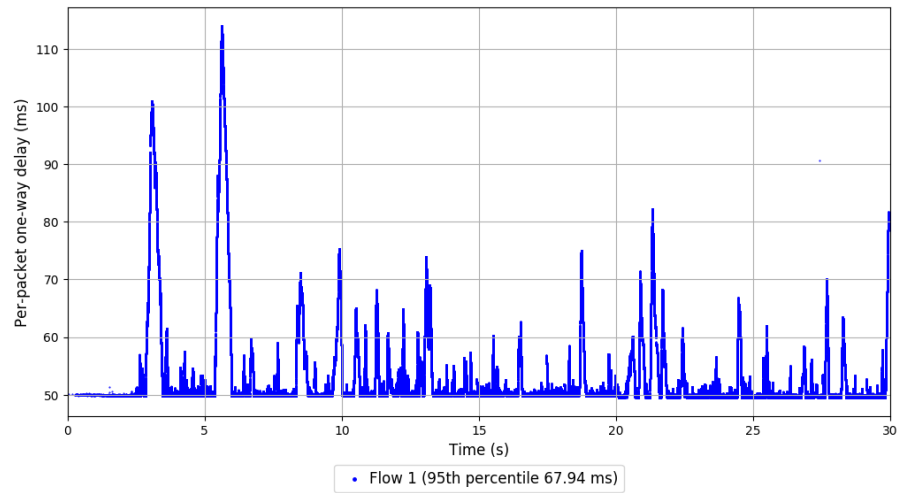
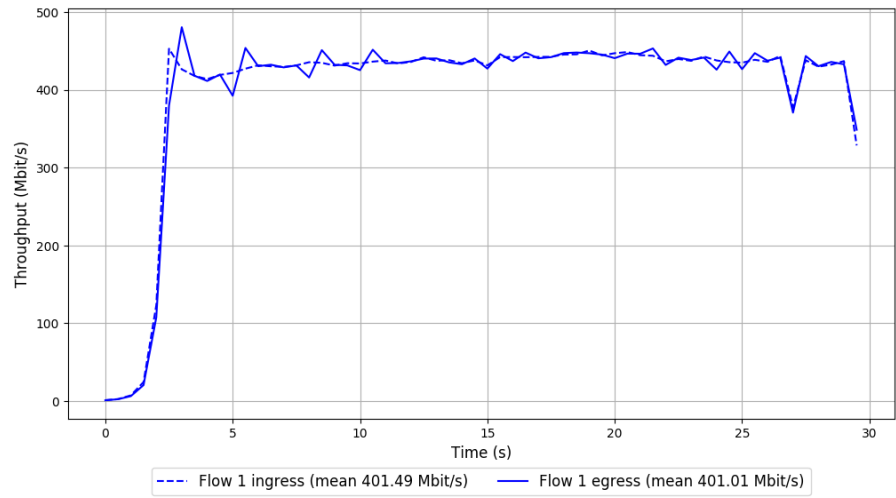
-- Flow 1:

Average throughput: 401.01 Mbit/s

95th percentile per-packet one-way delay: 67.940 ms

Loss rate: 0.10%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-20 05:34:33

End at: 2018-02-20 05:35:03

Below is generated by plot.py at 2018-02-20 08:57:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.39 Mbit/s

95th percentile per-packet one-way delay: 138.523 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 400.39 Mbit/s

95th percentile per-packet one-way delay: 138.523 ms

Loss rate: 0.00%

Run 10: Report of Vivace-LTE — Data Link

