

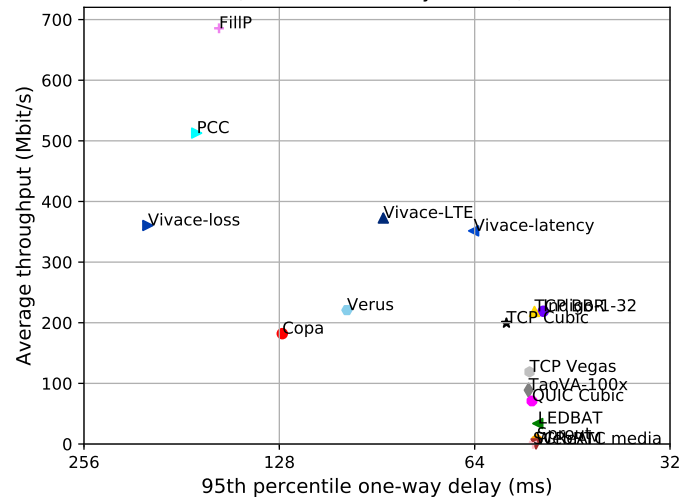
Pantheon Report

Generated at 2018-04-03 14:02:54 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

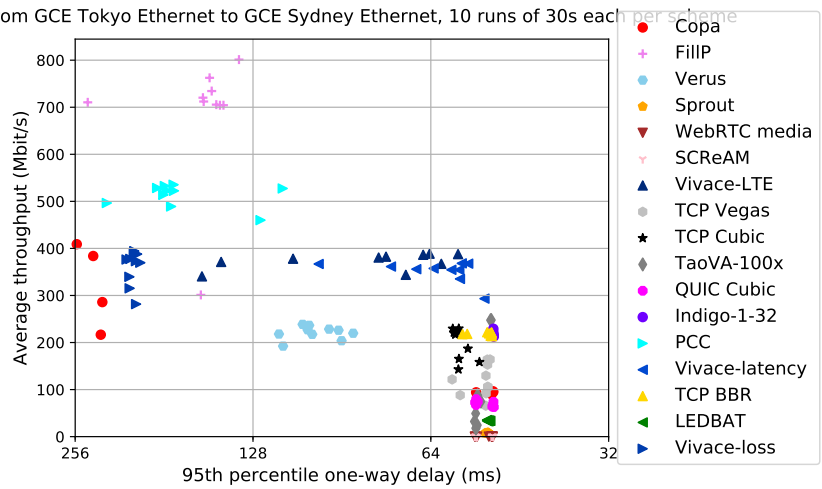
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
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 @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	218.69	51.76	0.37
TCP Cubic	10	199.45	57.18	0.34
LEDBAT	10	33.80	51.17	0.68
PCC	10	512.80	171.62	1.41
QUIC Cubic	10	70.98	52.23	0.42
SCReAM	10	0.21	52.02	0.39
WebRTC media	10	0.06	51.47	0.00
Sprout	10	7.89	51.32	0.34
TaoVA-100x	9	88.84	52.86	0.19
TCP Vegas	10	118.94	52.68	0.35
Verus	10	220.83	100.70	0.38
Copa	10	182.01	126.67	10.64
FillP	10	685.63	158.53	7.76
Indigo-1-32	10	218.96	50.18	0.34
Vivace-latency	10	351.49	64.24	0.39
Vivace-loss	10	360.44	204.07	3.90
Vivace-LTE	10	372.75	88.50	0.45

Run 1: Statistics of TCP BBR

Start at: 2018-04-03 07:22:25

End at: 2018-04-03 07:22:55

Below is generated by plot.py at 2018-04-03 12:21:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.80 Mbit/s

95th percentile per-packet one-way delay: 50.554 ms

Loss rate: 0.36%

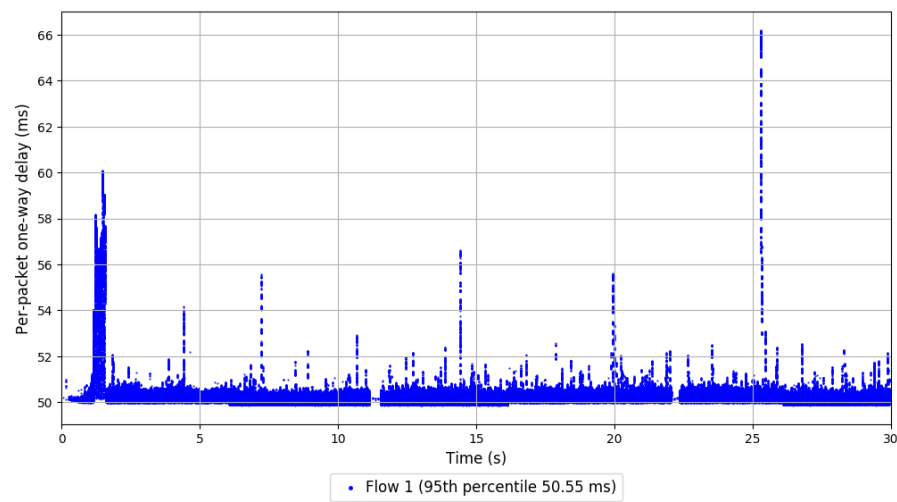
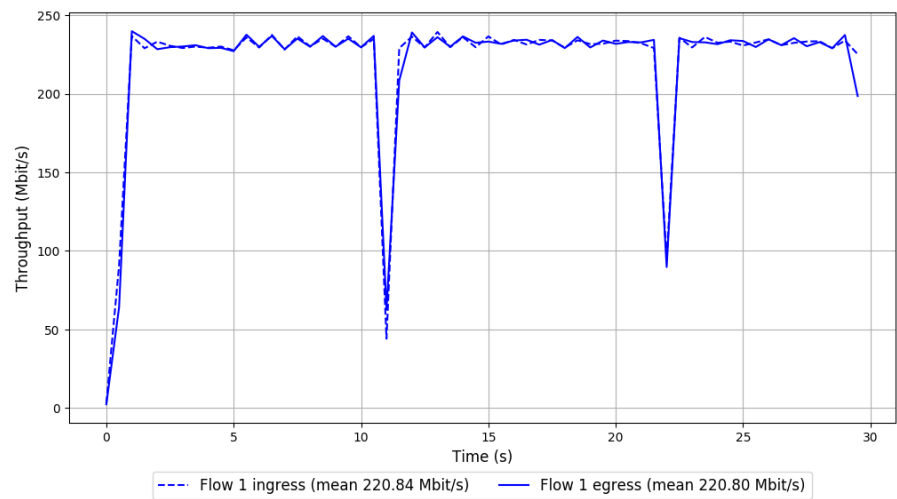
-- Flow 1:

Average throughput: 220.80 Mbit/s

95th percentile per-packet one-way delay: 50.554 ms

Loss rate: 0.36%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-03 07:36:42

End at: 2018-04-03 07:37:12

Below is generated by plot.py at 2018-04-03 12:21:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.93 Mbit/s

95th percentile per-packet one-way delay: 50.482 ms

Loss rate: 0.36%

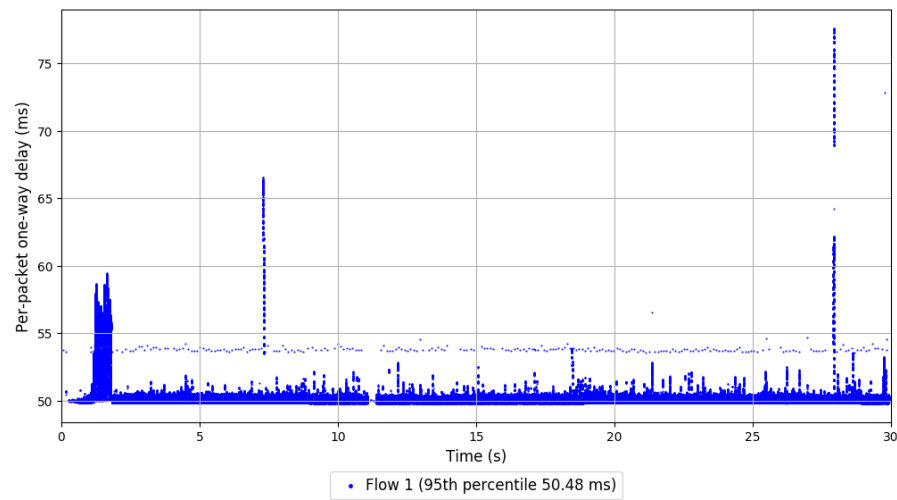
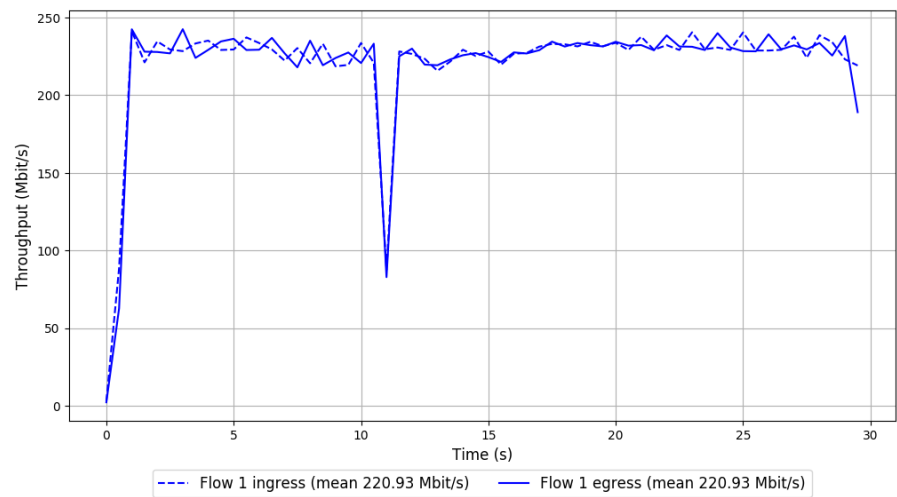
-- Flow 1:

Average throughput: 220.93 Mbit/s

95th percentile per-packet one-way delay: 50.482 ms

Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-03 07:50:57

End at: 2018-04-03 07:51:27

Below is generated by plot.py at 2018-04-03 12:21:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.50 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.36%

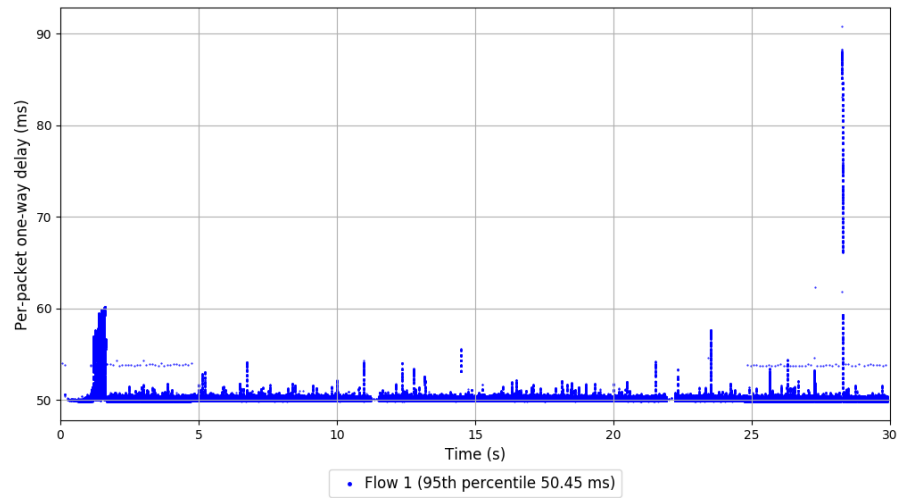
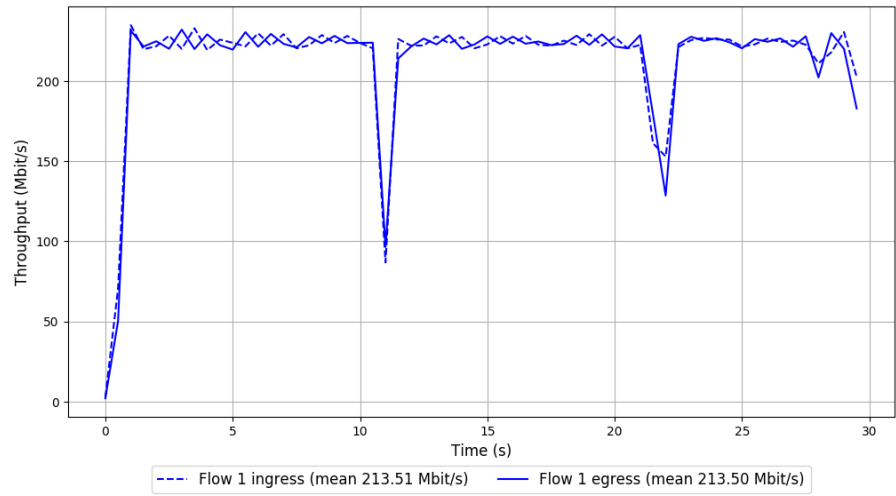
-- Flow 1:

Average throughput: 213.50 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.36%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-03 08:05:03

End at: 2018-04-03 08:05:33

Below is generated by plot.py at 2018-04-03 12:21:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.50 Mbit/s

95th percentile per-packet one-way delay: 50.476 ms

Loss rate: 0.37%

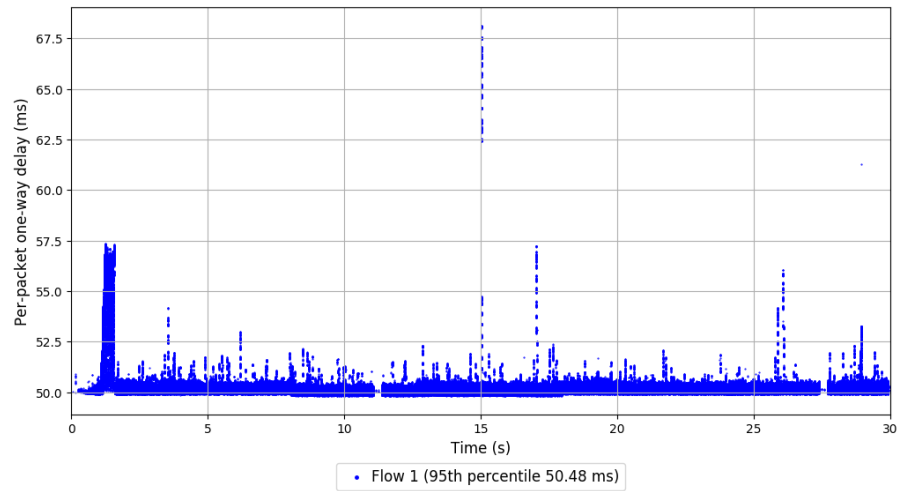
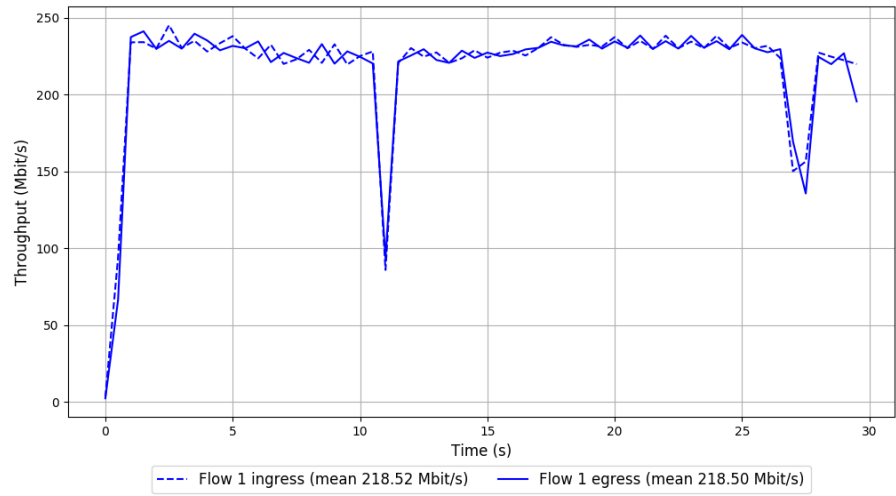
-- Flow 1:

Average throughput: 218.50 Mbit/s

95th percentile per-packet one-way delay: 50.476 ms

Loss rate: 0.37%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-03 08:19:22

End at: 2018-04-03 08:19:52

Below is generated by plot.py at 2018-04-03 12:21:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.92 Mbit/s

95th percentile per-packet one-way delay: 51.373 ms

Loss rate: 0.38%

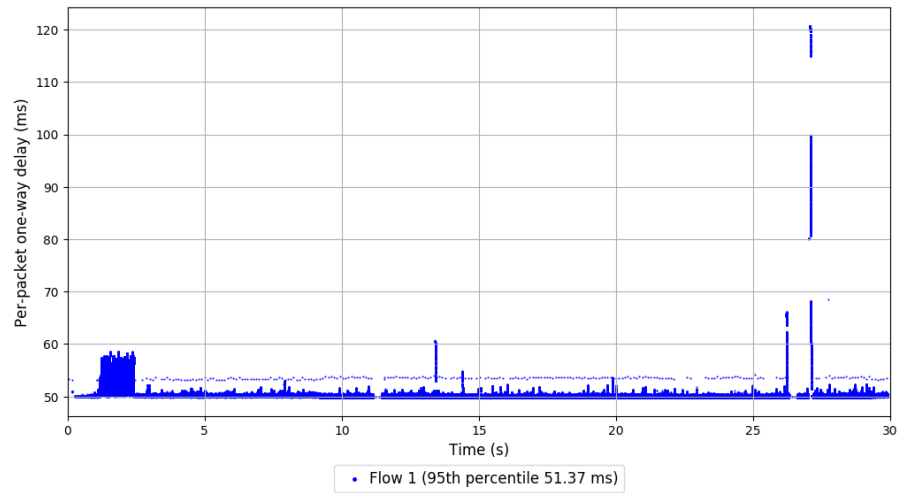
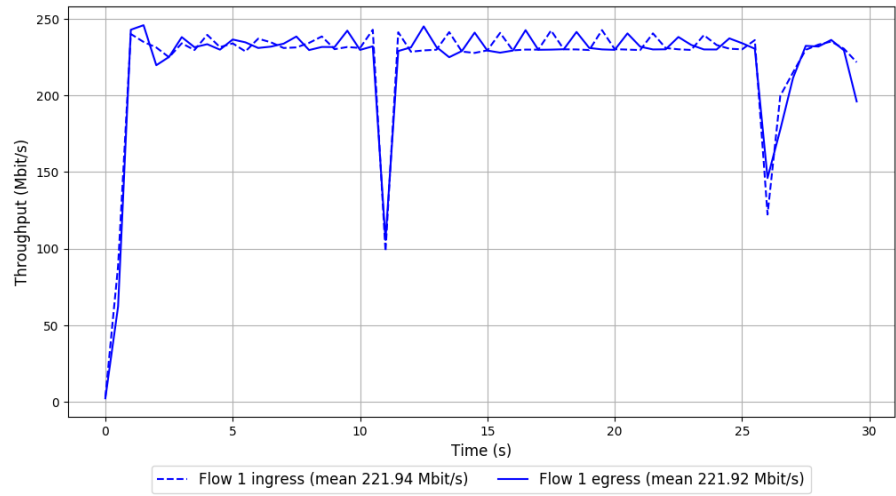
-- Flow 1:

Average throughput: 221.92 Mbit/s

95th percentile per-packet one-way delay: 51.373 ms

Loss rate: 0.38%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-03 08:33:34

End at: 2018-04-03 08:34:04

Below is generated by plot.py at 2018-04-03 12:21:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.78 Mbit/s

95th percentile per-packet one-way delay: 56.554 ms

Loss rate: 0.38%

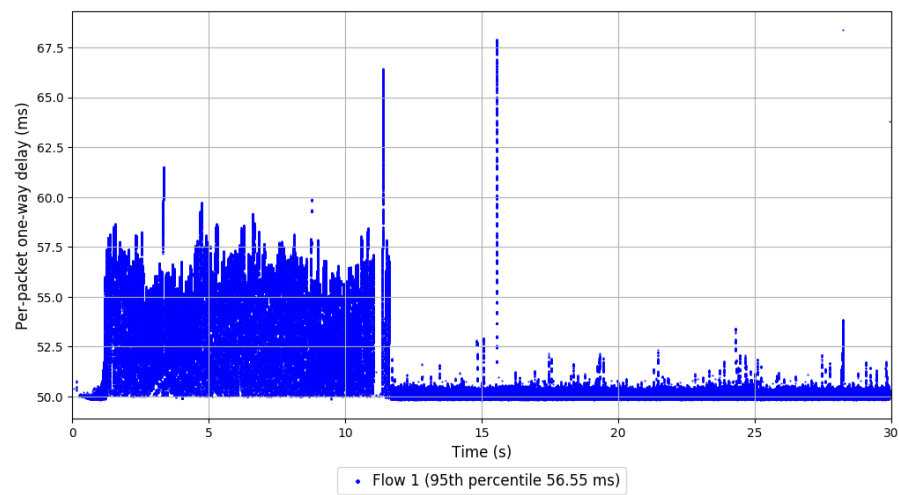
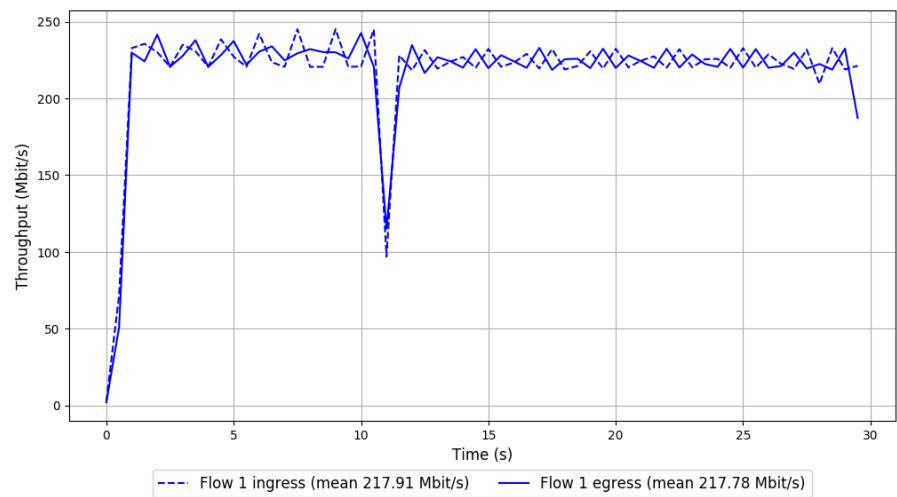
-- Flow 1:

Average throughput: 217.78 Mbit/s

95th percentile per-packet one-way delay: 56.554 ms

Loss rate: 0.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-03 08:48:11

End at: 2018-04-03 08:48:41

Below is generated by plot.py at 2018-04-03 12:21:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.44 Mbit/s

95th percentile per-packet one-way delay: 50.527 ms

Loss rate: 0.35%

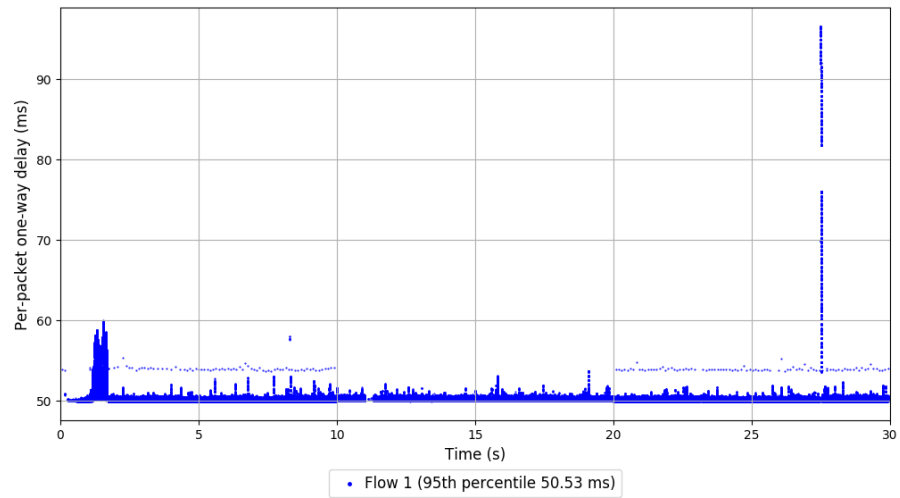
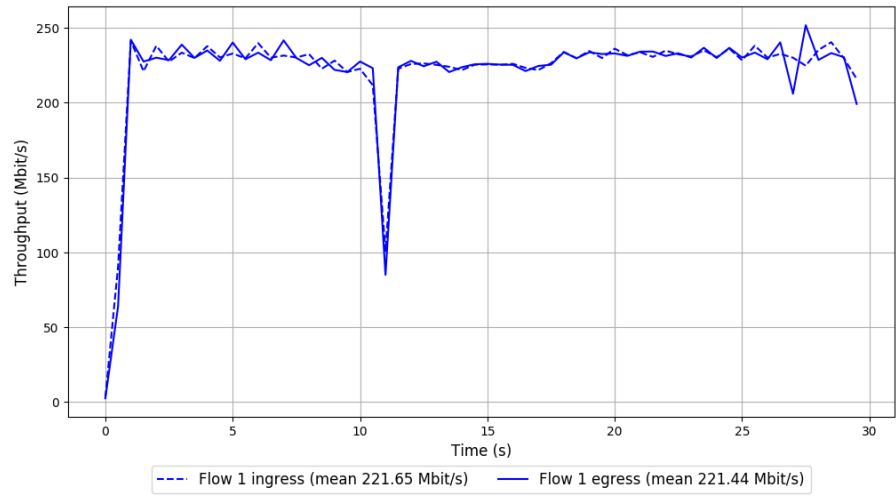
-- Flow 1:

Average throughput: 221.44 Mbit/s

95th percentile per-packet one-way delay: 50.527 ms

Loss rate: 0.35%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-03 09:03:05

End at: 2018-04-03 09:03:35

Below is generated by plot.py at 2018-04-03 12:21:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.30 Mbit/s

95th percentile per-packet one-way delay: 55.532 ms

Loss rate: 0.38%

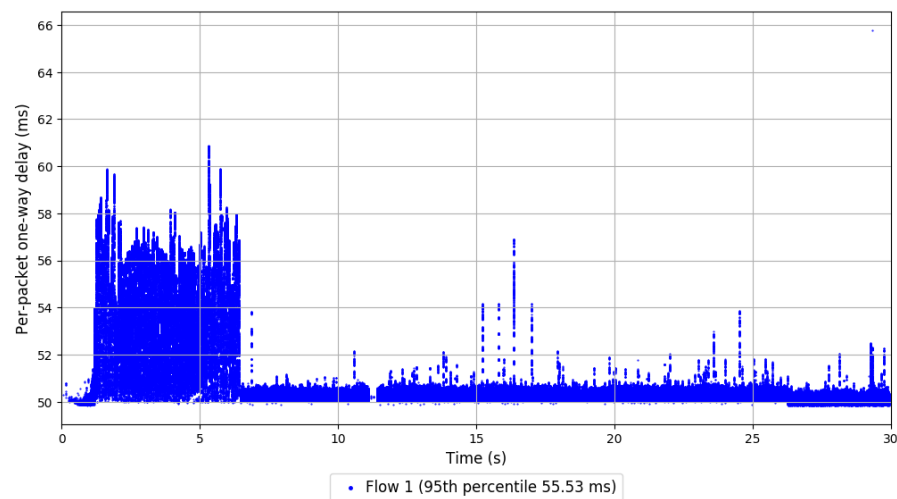
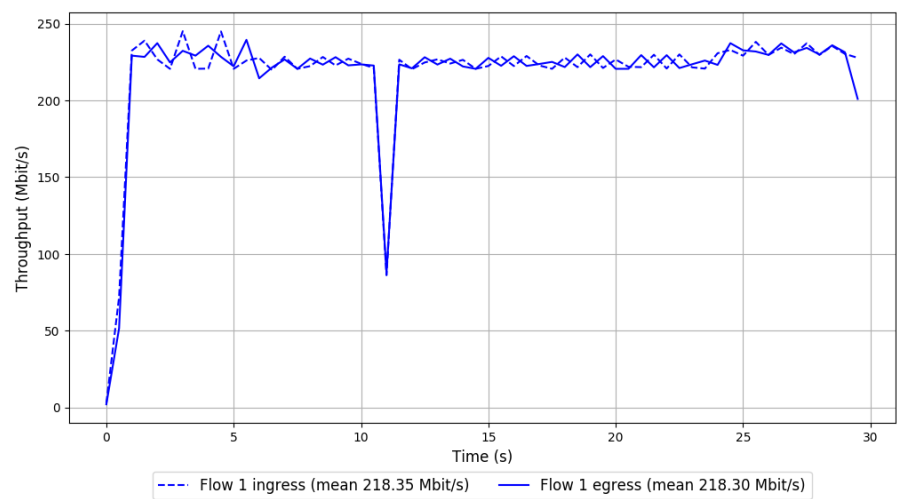
-- Flow 1:

Average throughput: 218.30 Mbit/s

95th percentile per-packet one-way delay: 55.532 ms

Loss rate: 0.38%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-03 09:17:30

End at: 2018-04-03 09:18:00

Below is generated by plot.py at 2018-04-03 12:25:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.34 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.37%

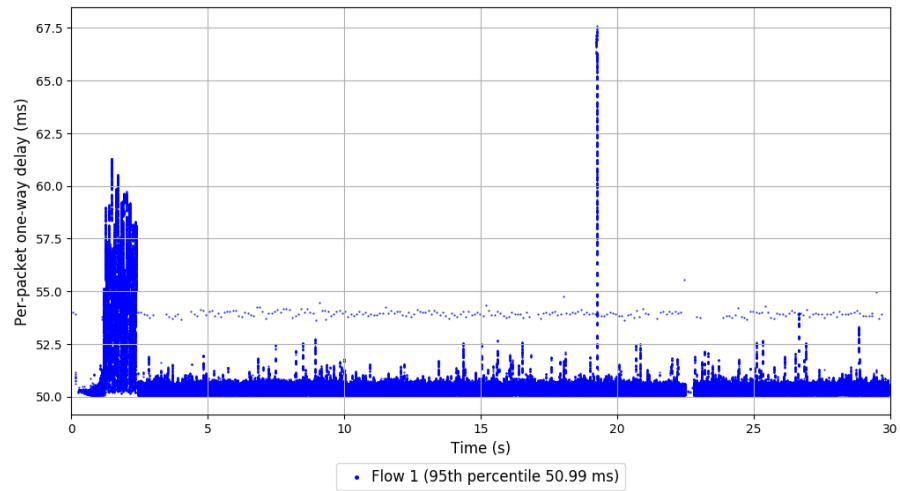
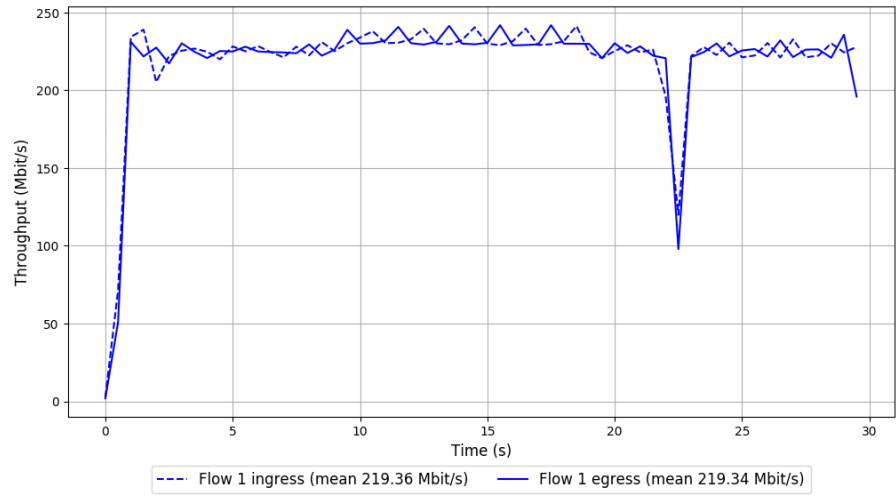
-- Flow 1:

Average throughput: 219.34 Mbit/s

95th percentile per-packet one-way delay: 50.994 ms

Loss rate: 0.37%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-03 09:32:08

End at: 2018-04-03 09:32:38

Below is generated by plot.py at 2018-04-03 12:25:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.44 Mbit/s

95th percentile per-packet one-way delay: 50.690 ms

Loss rate: 0.36%

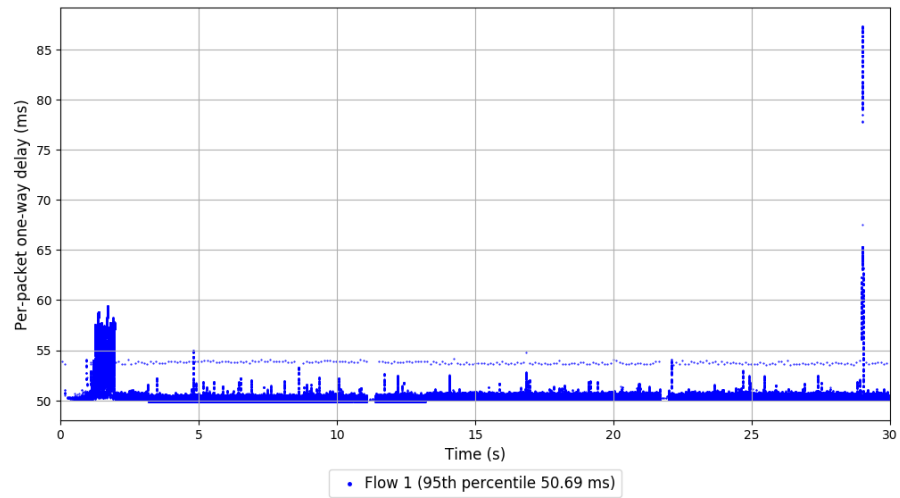
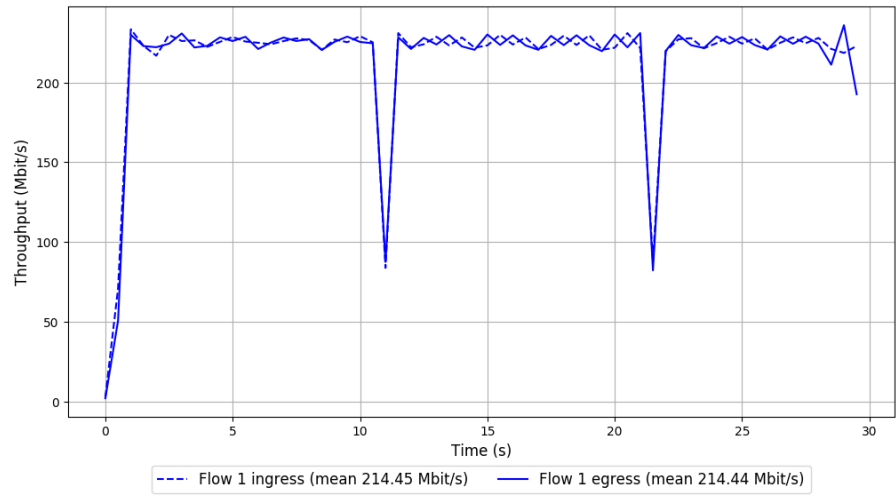
-- Flow 1:

Average throughput: 214.44 Mbit/s

95th percentile per-packet one-way delay: 50.690 ms

Loss rate: 0.36%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-03 07:28:26

End at: 2018-04-03 07:28:56

Below is generated by plot.py at 2018-04-03 12:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.93 Mbit/s

95th percentile per-packet one-way delay: 58.171 ms

Loss rate: 0.20%

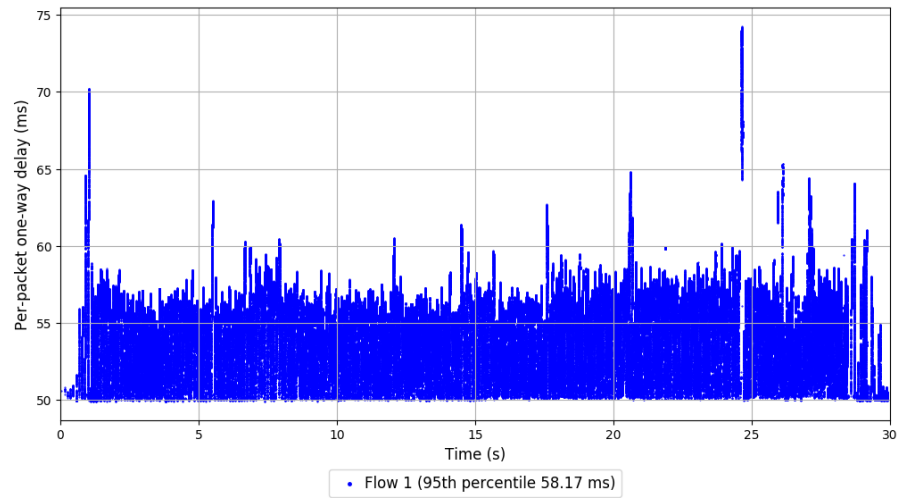
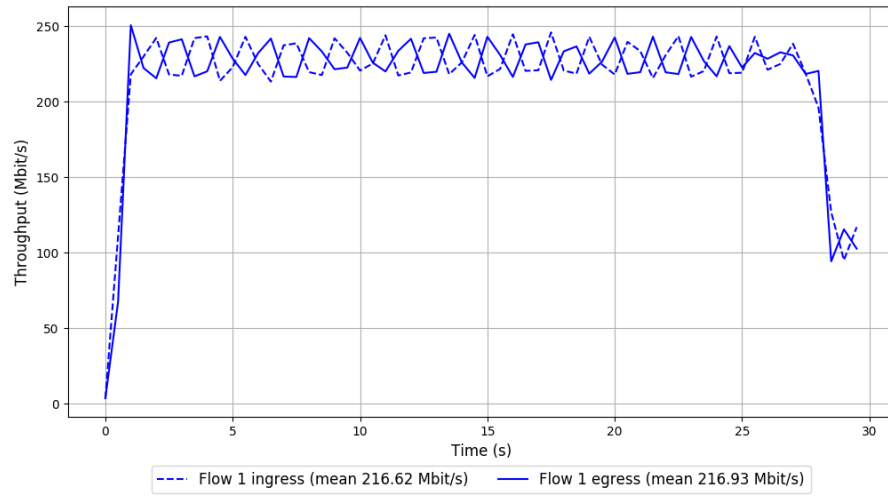
-- Flow 1:

Average throughput: 216.93 Mbit/s

95th percentile per-packet one-way delay: 58.171 ms

Loss rate: 0.20%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-03 07:42:39

End at: 2018-04-03 07:43:09

Below is generated by plot.py at 2018-04-03 12:25:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.59 Mbit/s

95th percentile per-packet one-way delay: 52.952 ms

Loss rate: 0.52%

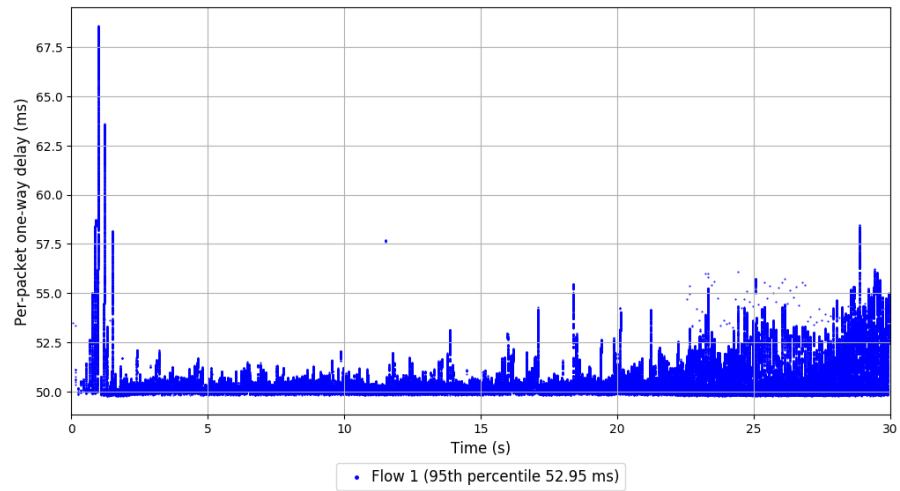
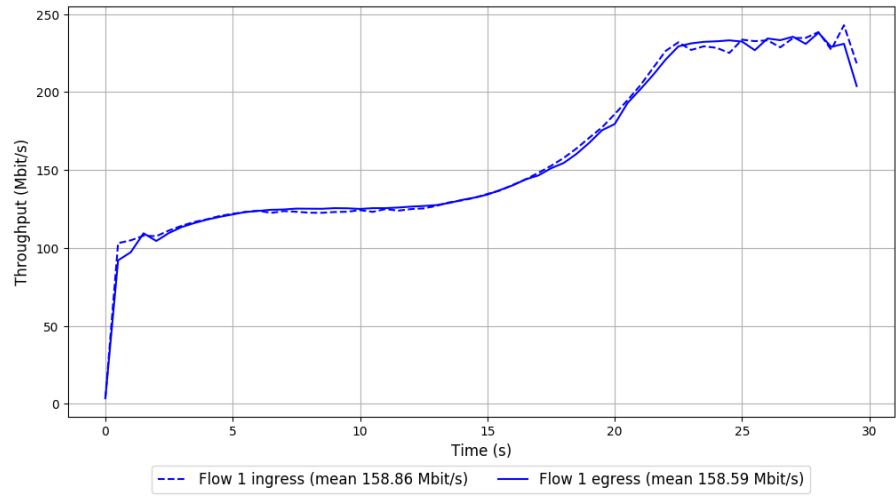
-- Flow 1:

Average throughput: 158.59 Mbit/s

95th percentile per-packet one-way delay: 52.952 ms

Loss rate: 0.52%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-03 07:56:58

End at: 2018-04-03 07:57:28

Below is generated by plot.py at 2018-04-03 12:25:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.25 Mbit/s

95th percentile per-packet one-way delay: 57.676 ms

Loss rate: 0.39%

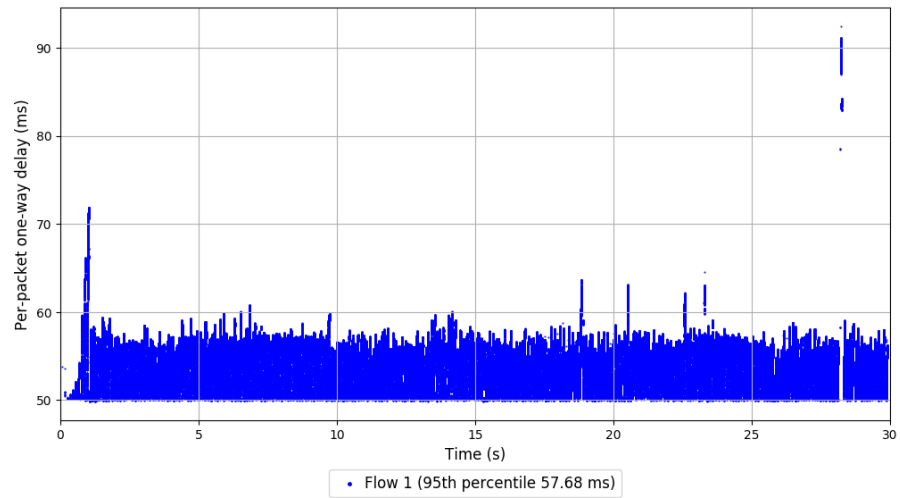
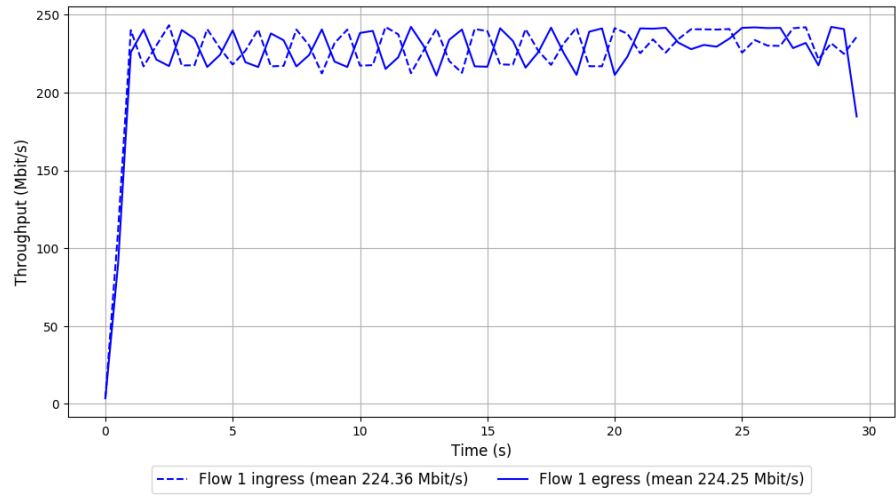
-- Flow 1:

Average throughput: 224.25 Mbit/s

95th percentile per-packet one-way delay: 57.676 ms

Loss rate: 0.39%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-03 08:11:00

End at: 2018-04-03 08:11:30

Below is generated by plot.py at 2018-04-03 12:25:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.95 Mbit/s

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

Loss rate: 0.43%

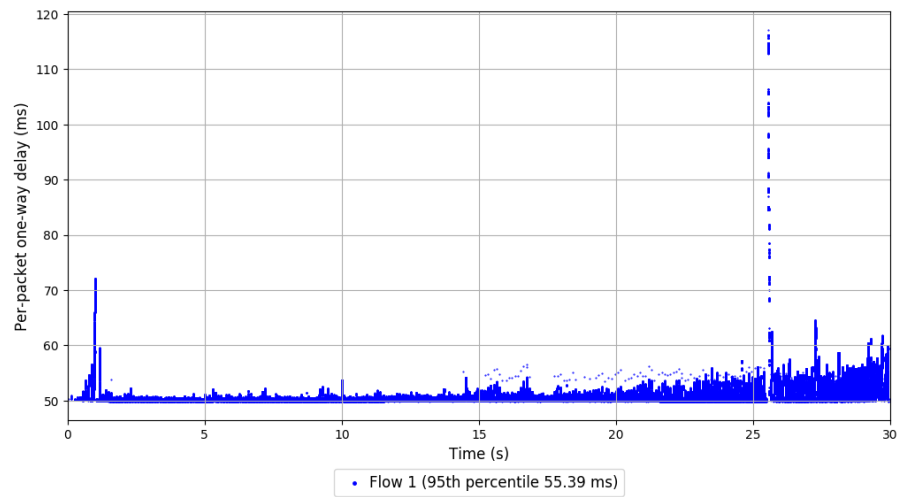
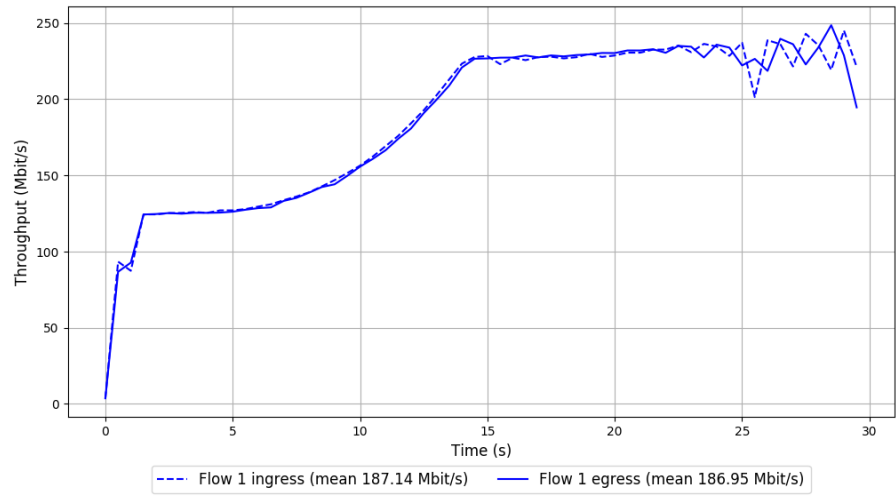
-- Flow 1:

Average throughput: 186.95 Mbit/s

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

Loss rate: 0.43%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-03 08:25:22

End at: 2018-04-03 08:25:52

Below is generated by plot.py at 2018-04-03 12:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.61 Mbit/s

95th percentile per-packet one-way delay: 57.400 ms

Loss rate: 0.35%

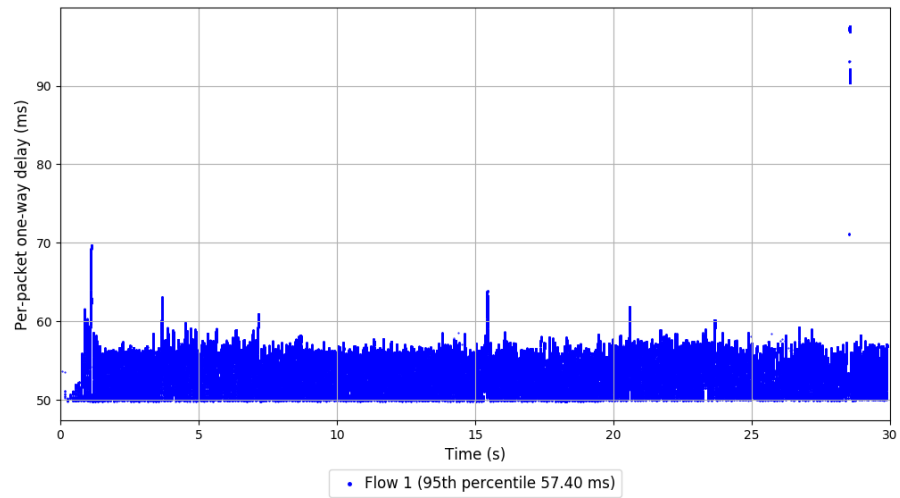
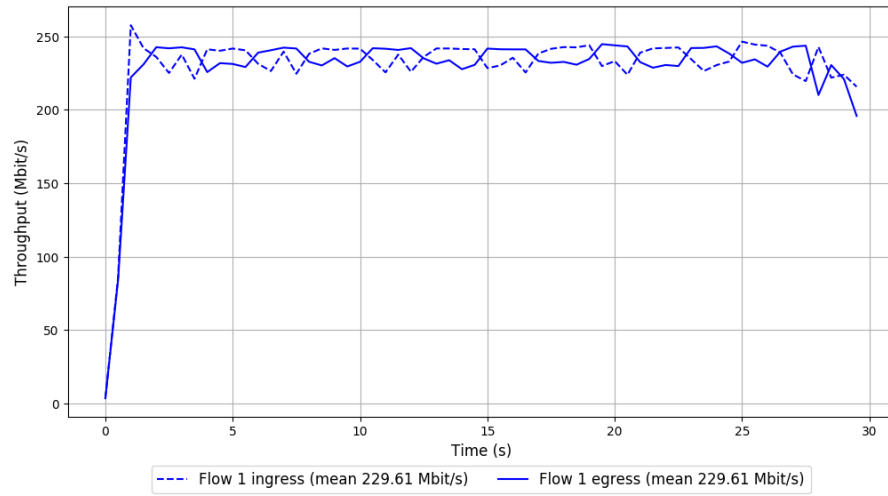
-- Flow 1:

Average throughput: 229.61 Mbit/s

95th percentile per-packet one-way delay: 57.400 ms

Loss rate: 0.35%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-03 08:39:52

End at: 2018-04-03 08:40:22

Below is generated by plot.py at 2018-04-03 12:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.40 Mbit/s

95th percentile per-packet one-way delay: 58.075 ms

Loss rate: 0.12%

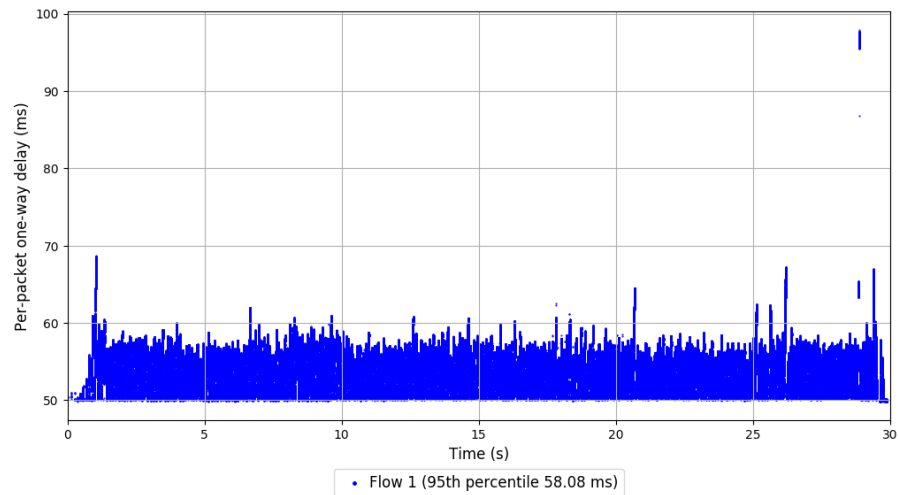
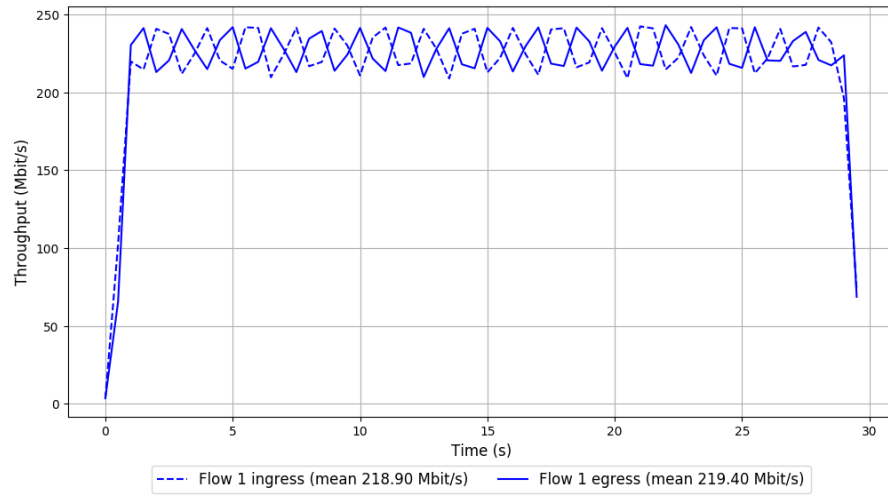
-- Flow 1:

Average throughput: 219.40 Mbit/s

95th percentile per-packet one-way delay: 58.075 ms

Loss rate: 0.12%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-03 08:54:42

End at: 2018-04-03 08:55:12

Below is generated by plot.py at 2018-04-03 12:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.29 Mbit/s

95th percentile per-packet one-way delay: 58.502 ms

Loss rate: 0.20%

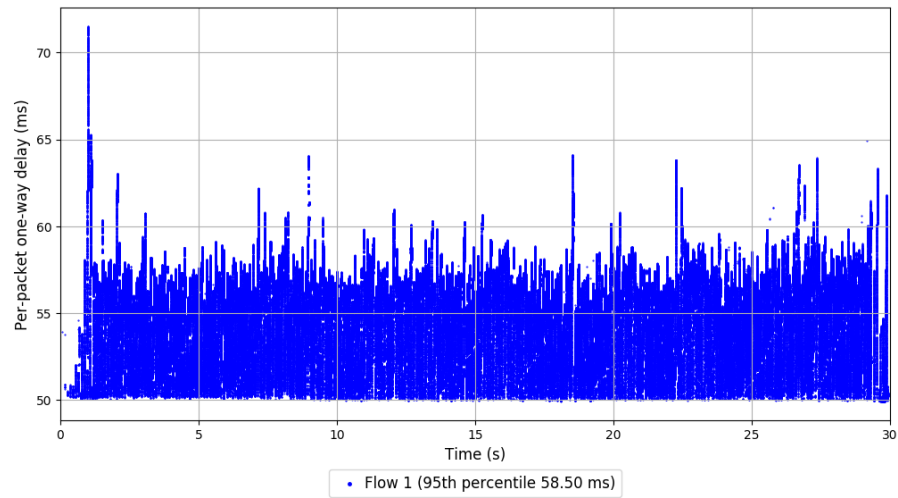
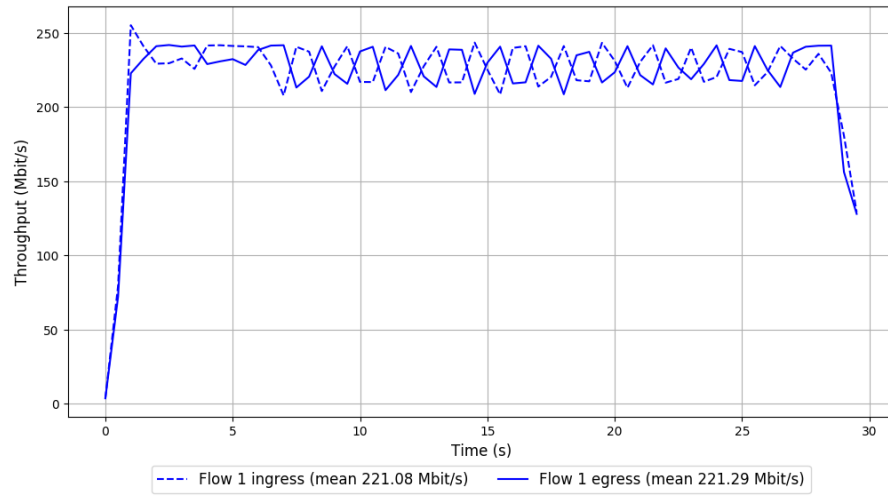
-- Flow 1:

Average throughput: 221.29 Mbit/s

95th percentile per-packet one-way delay: 58.502 ms

Loss rate: 0.20%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-03 09:09:12

End at: 2018-04-03 09:09:42

Below is generated by plot.py at 2018-04-03 12:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.19 Mbit/s

95th percentile per-packet one-way delay: 57.363 ms

Loss rate: 0.31%

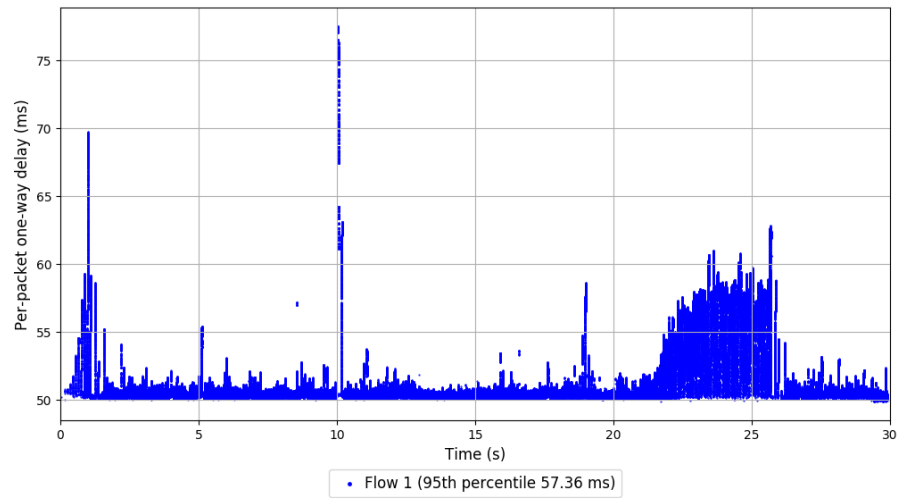
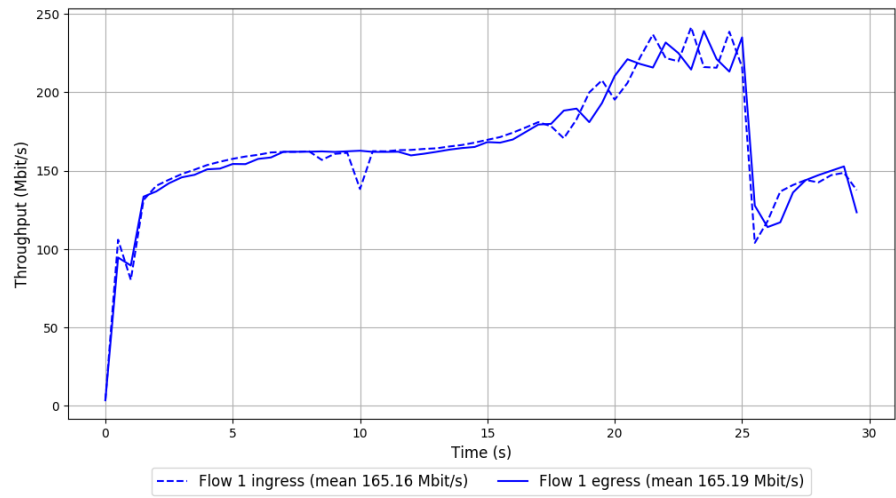
-- Flow 1:

Average throughput: 165.19 Mbit/s

95th percentile per-packet one-way delay: 57.363 ms

Loss rate: 0.31%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-03 09:23:50

End at: 2018-04-03 09:24:20

Below is generated by plot.py at 2018-04-03 12:29:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 142.92 Mbit/s

95th percentile per-packet one-way delay: 57.478 ms

Loss rate: 0.57%

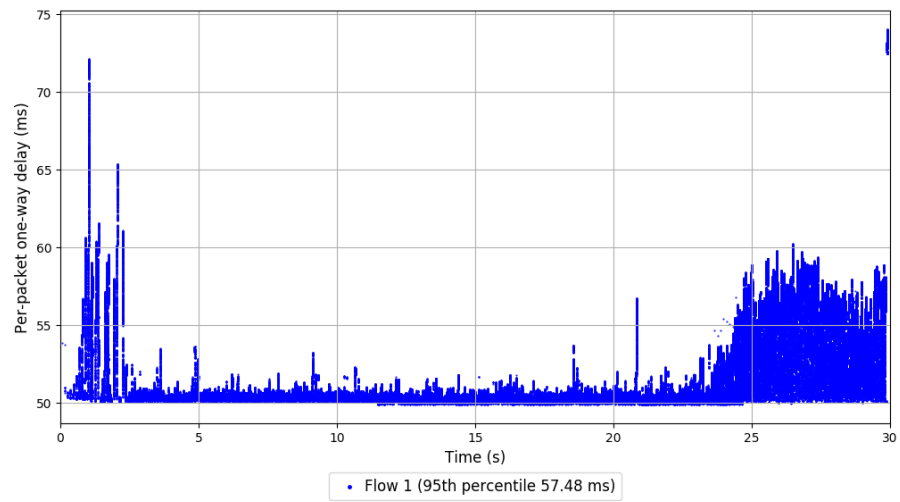
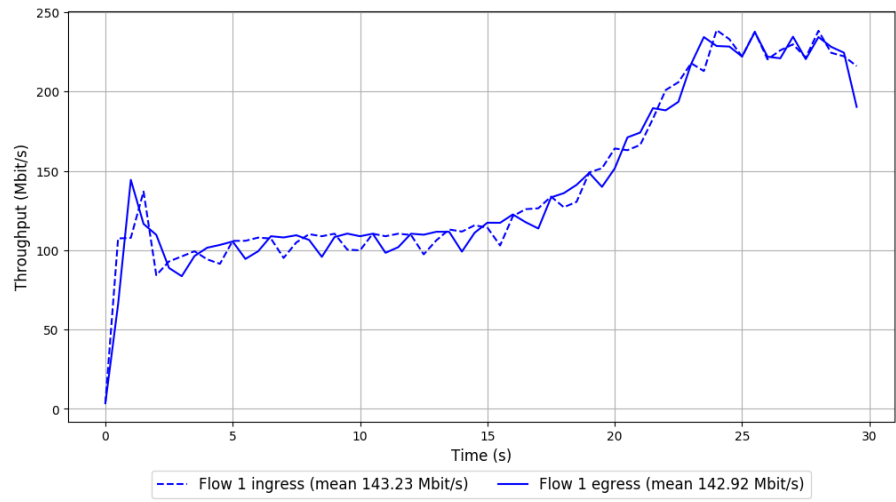
-- Flow 1:

Average throughput: 142.92 Mbit/s

95th percentile per-packet one-way delay: 57.478 ms

Loss rate: 0.57%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-03 09:38:33

End at: 2018-04-03 09:39:03

Below is generated by plot.py at 2018-04-03 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.34 Mbit/s

95th percentile per-packet one-way delay: 58.762 ms

Loss rate: 0.31%

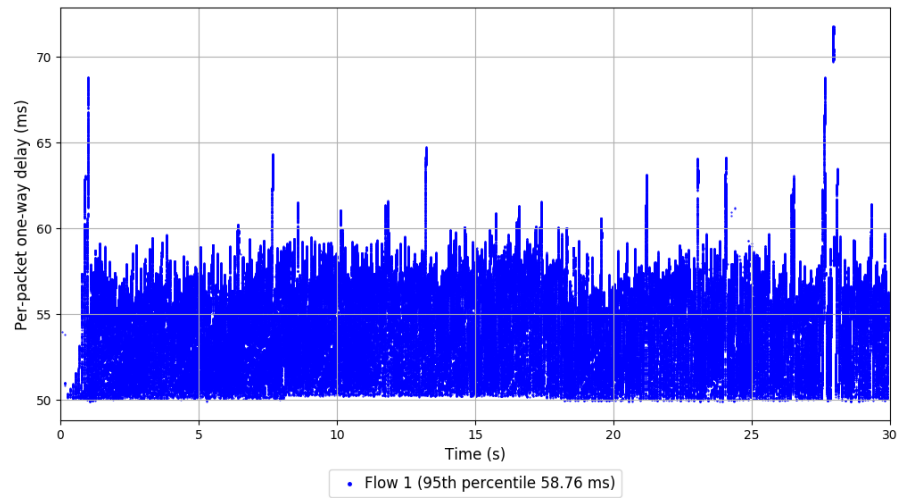
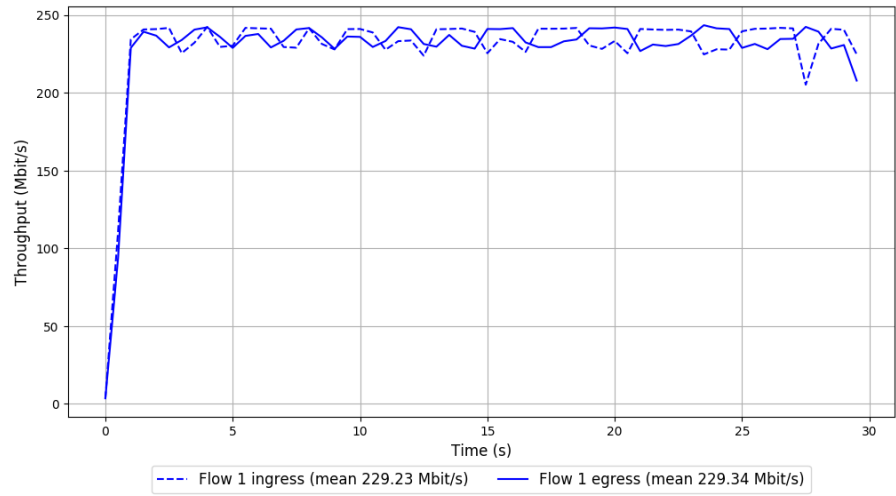
-- Flow 1:

Average throughput: 229.34 Mbit/s

95th percentile per-packet one-way delay: 58.762 ms

Loss rate: 0.31%

Run 10: Report of TCP Cubic — Data Link

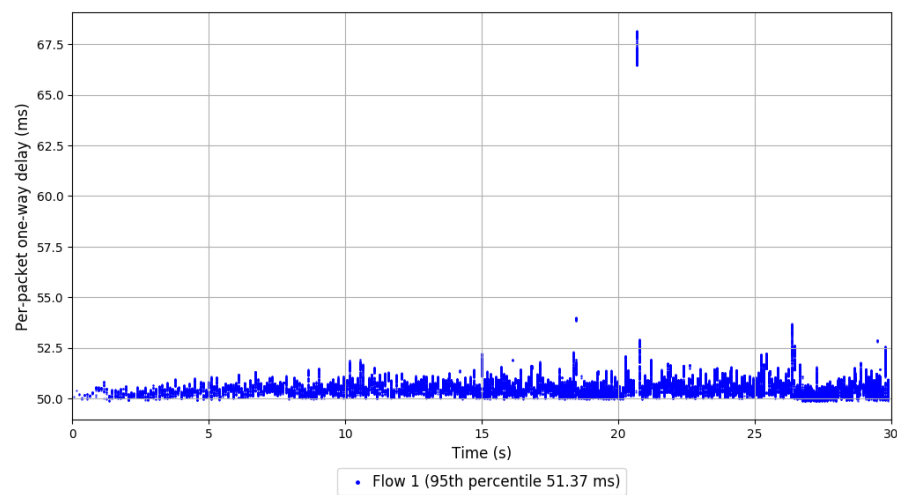
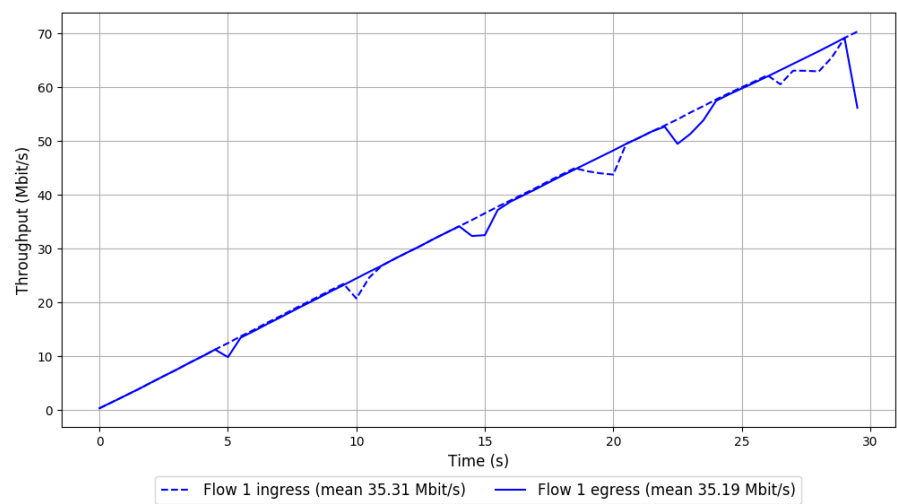


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-03 07:18:15
End at: 2018-04-03 07:18:45

# Below is generated by plot.py at 2018-04-03 12:30:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 51.368 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 35.19 Mbit/s
95th percentile per-packet one-way delay: 51.368 ms
Loss rate: 0.67%
```

Run 1: Report of LEDBAT — Data Link

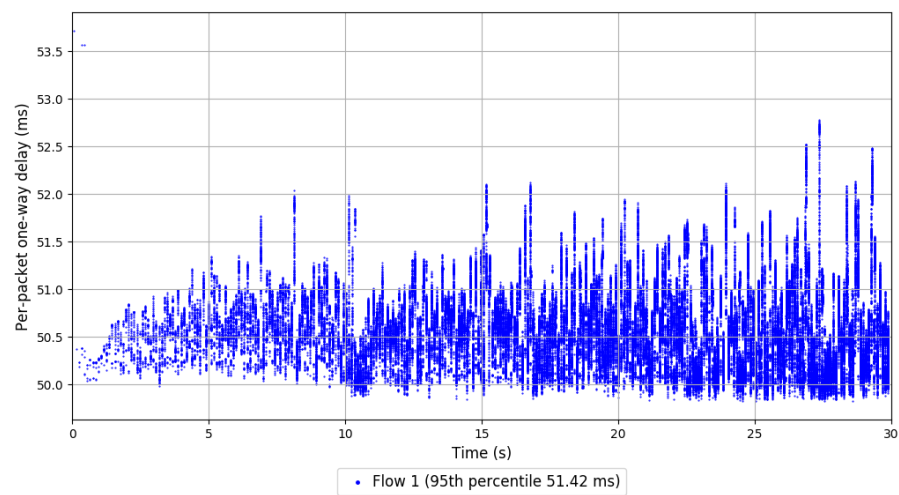
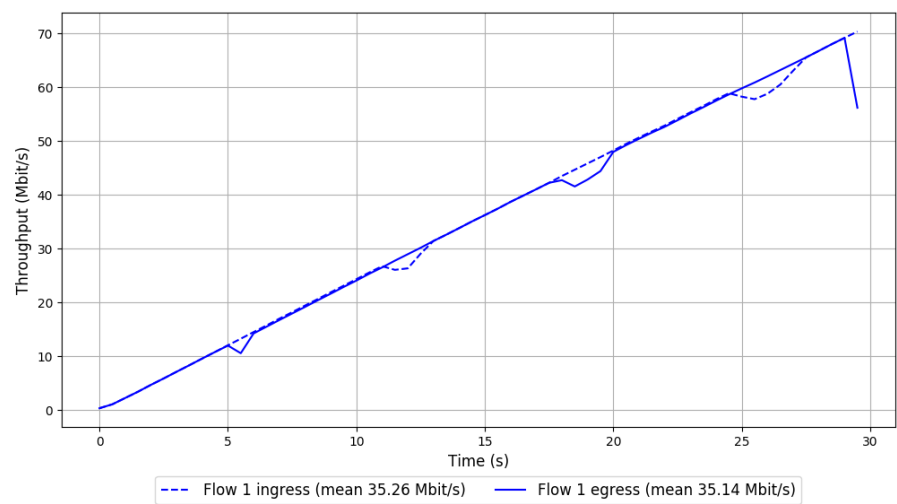


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-03 07:32:33
End at: 2018-04-03 07:33:03

# Below is generated by plot.py at 2018-04-03 12:30:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.14 Mbit/s
95th percentile per-packet one-way delay: 51.418 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 35.14 Mbit/s
95th percentile per-packet one-way delay: 51.418 ms
Loss rate: 0.67%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-03 07:46:46

End at: 2018-04-03 07:47:16

Below is generated by plot.py at 2018-04-03 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.53 Mbit/s

95th percentile per-packet one-way delay: 50.752 ms

Loss rate: 0.69%

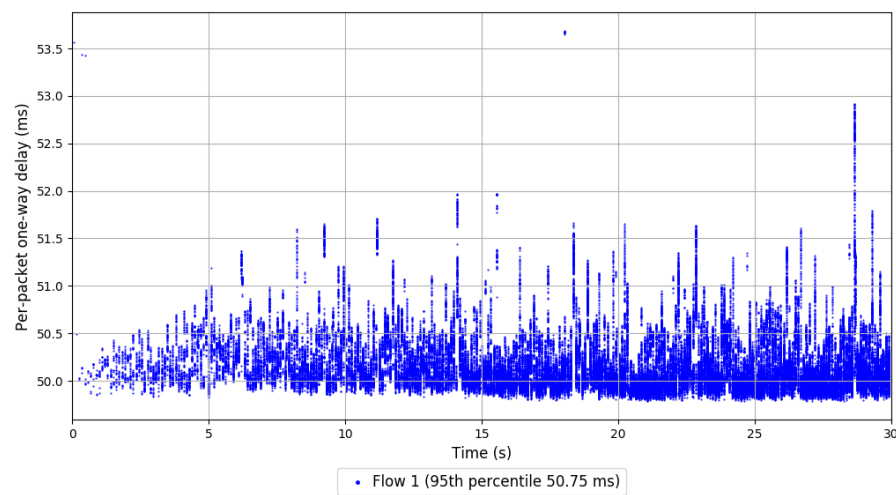
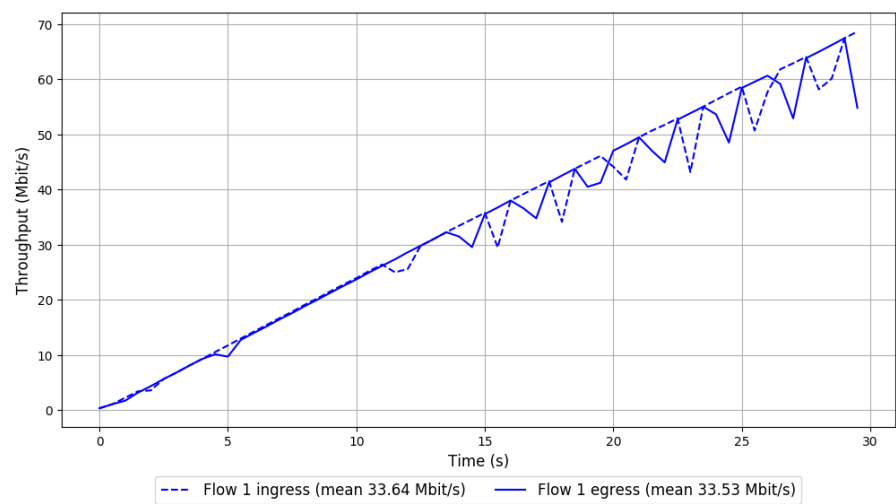
-- Flow 1:

Average throughput: 33.53 Mbit/s

95th percentile per-packet one-way delay: 50.752 ms

Loss rate: 0.69%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-03 08:01:07

End at: 2018-04-03 08:01:37

Below is generated by plot.py at 2018-04-03 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 51.287 ms

Loss rate: 0.68%

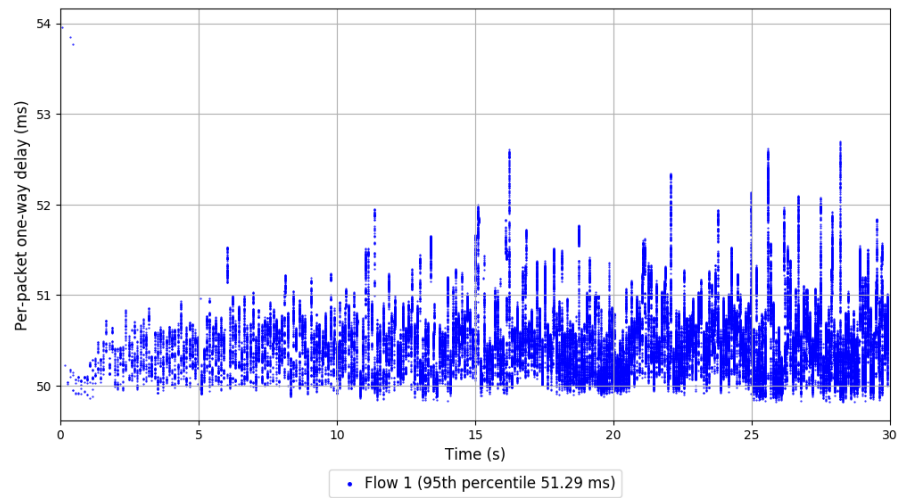
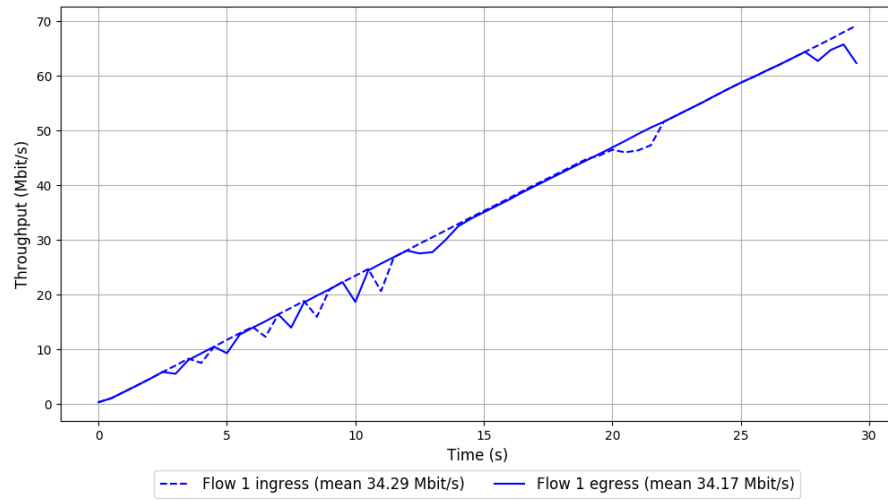
-- Flow 1:

Average throughput: 34.17 Mbit/s

95th percentile per-packet one-way delay: 51.287 ms

Loss rate: 0.68%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-03 08:15:11

End at: 2018-04-03 08:15:41

Below is generated by plot.py at 2018-04-03 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 51.052 ms

Loss rate: 0.67%

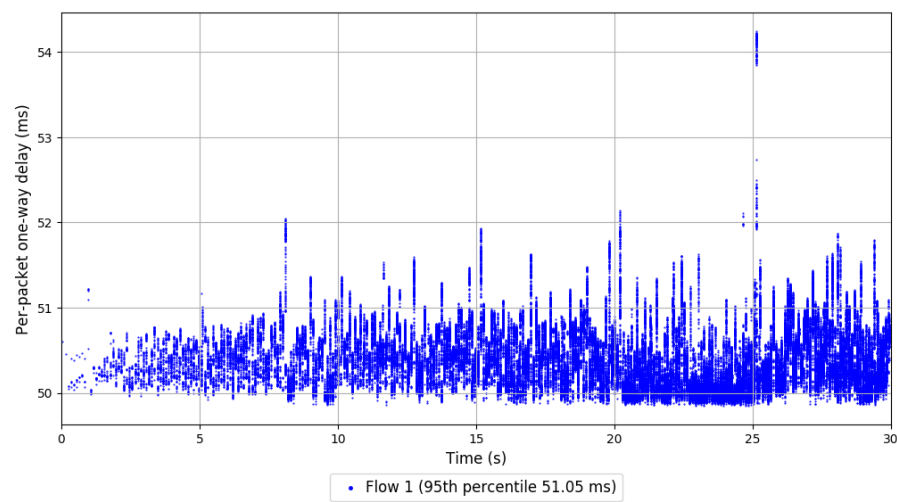
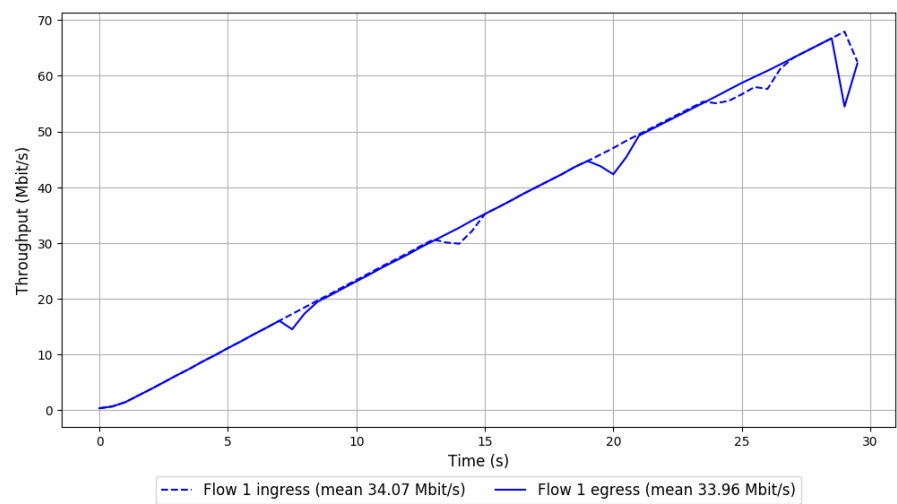
-- Flow 1:

Average throughput: 33.96 Mbit/s

95th percentile per-packet one-way delay: 51.052 ms

Loss rate: 0.67%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-03 08:29:27

End at: 2018-04-03 08:29:57

Below is generated by plot.py at 2018-04-03 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.02 Mbit/s

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

Loss rate: 0.68%

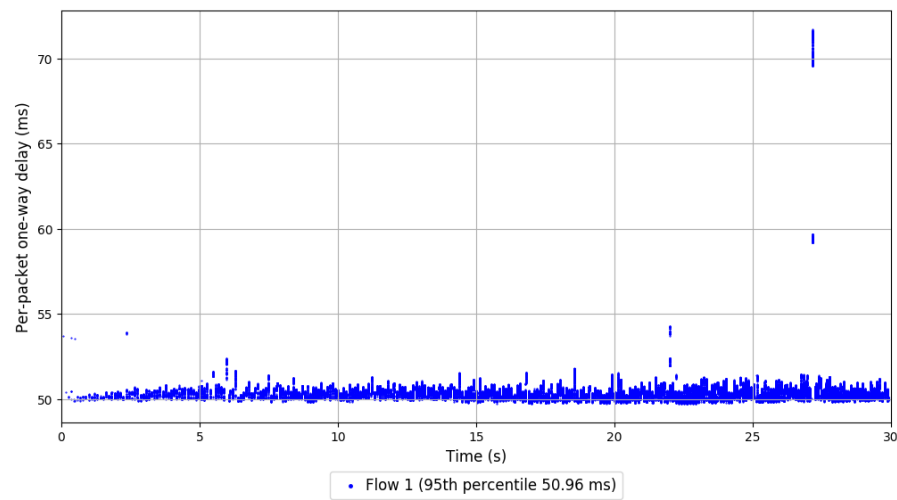
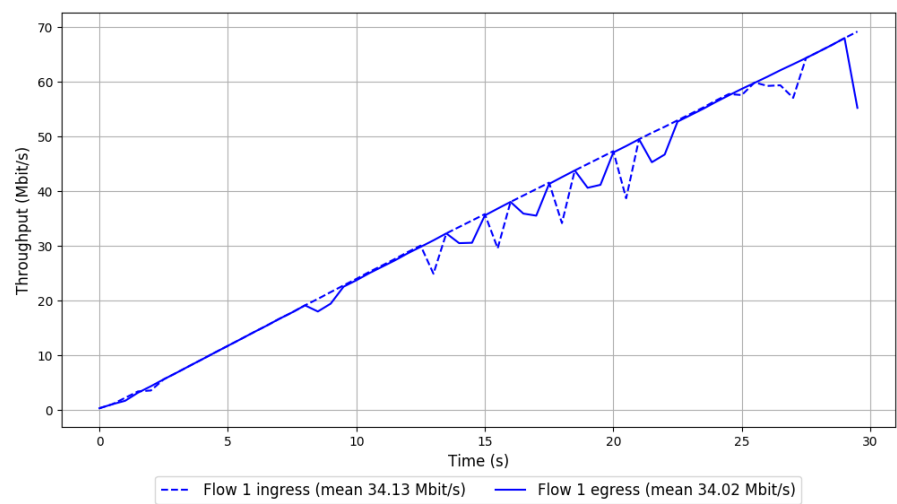
-- Flow 1:

Average throughput: 34.02 Mbit/s

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

Loss rate: 0.68%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-03 08:44:03

End at: 2018-04-03 08:44:33

Below is generated by plot.py at 2018-04-03 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 51.343 ms

Loss rate: 0.69%

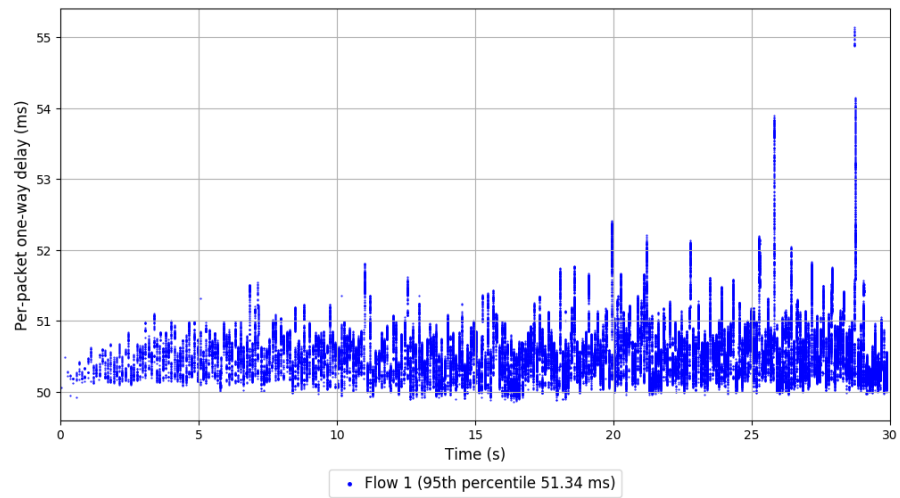
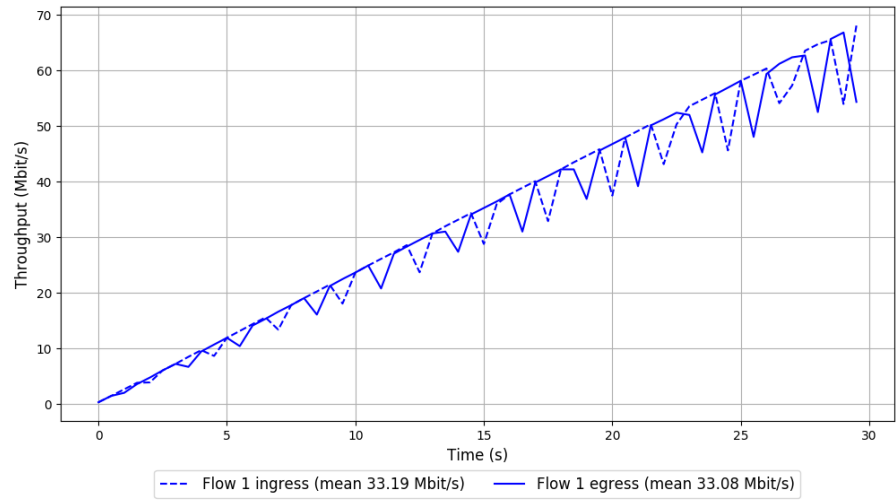
-- Flow 1:

Average throughput: 33.08 Mbit/s

95th percentile per-packet one-way delay: 51.343 ms

Loss rate: 0.69%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-03 08:58:52

End at: 2018-04-03 08:59:22

Below is generated by plot.py at 2018-04-03 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.99 Mbit/s

95th percentile per-packet one-way delay: 51.026 ms

Loss rate: 0.69%

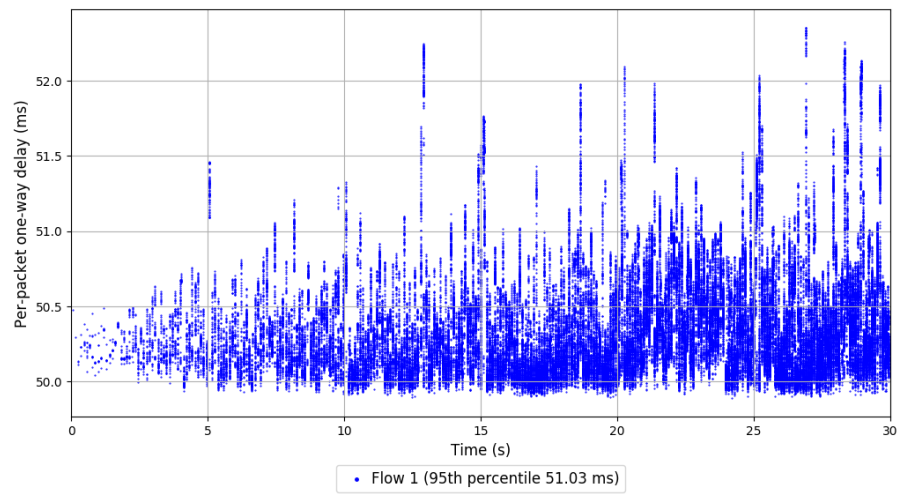
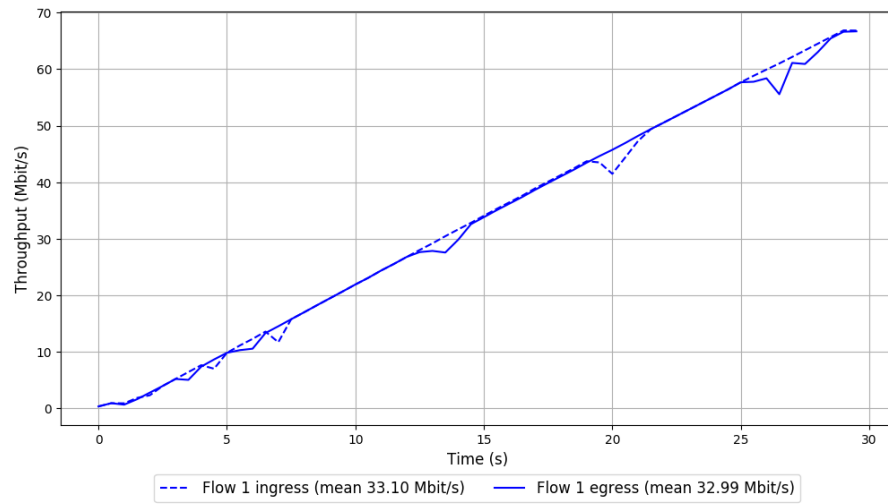
-- Flow 1:

Average throughput: 32.99 Mbit/s

95th percentile per-packet one-way delay: 51.026 ms

Loss rate: 0.69%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-03 09:13:21

End at: 2018-04-03 09:13:51

Below is generated by plot.py at 2018-04-03 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.82 Mbit/s

95th percentile per-packet one-way delay: 51.162 ms

Loss rate: 0.69%

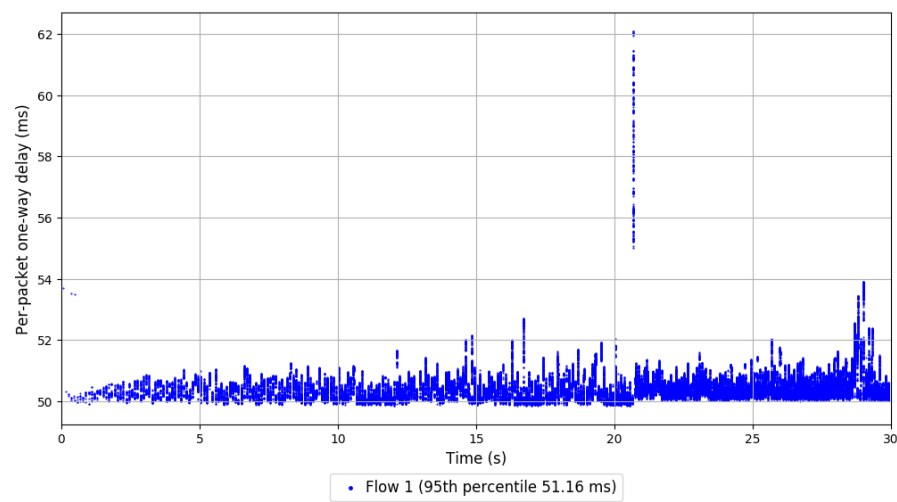
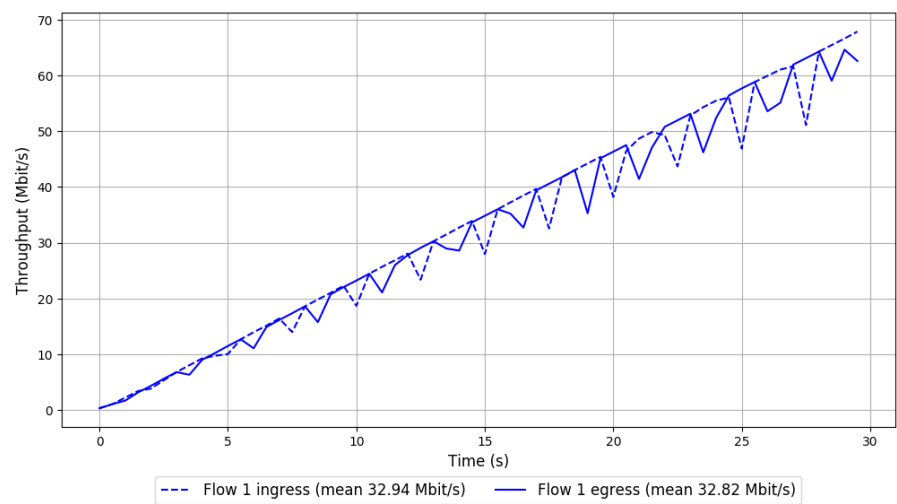
-- Flow 1:

Average throughput: 32.82 Mbit/s

95th percentile per-packet one-way delay: 51.162 ms

Loss rate: 0.69%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-03 09:27:58

End at: 2018-04-03 09:28:28

Below is generated by plot.py at 2018-04-03 12:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 51.295 ms

Loss rate: 0.69%

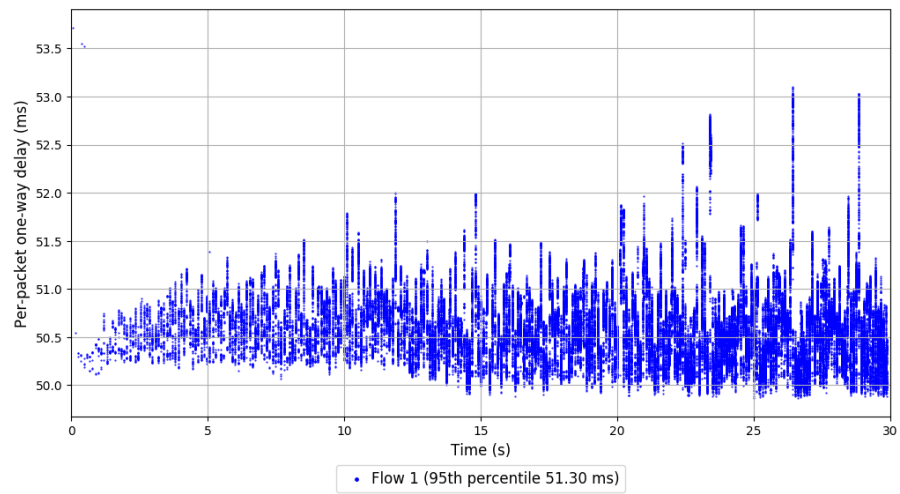
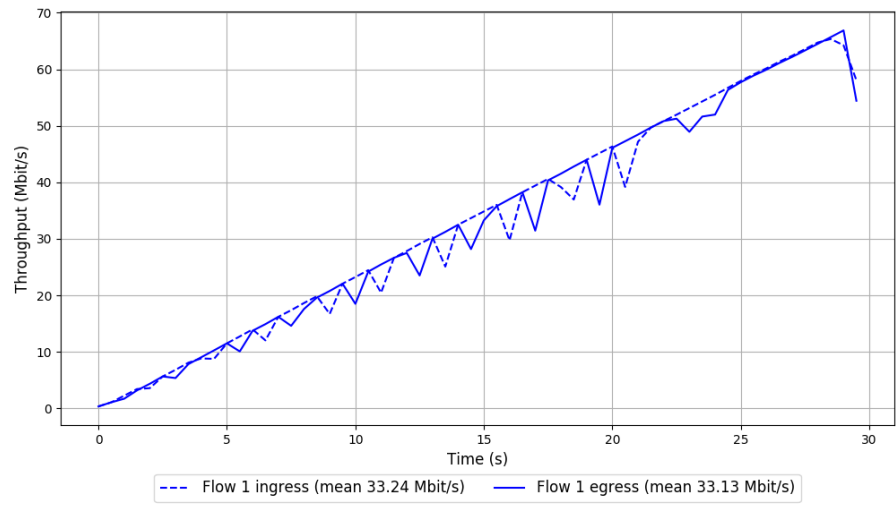
-- Flow 1:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 51.295 ms

Loss rate: 0.69%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-04-03 07:29:13

End at: 2018-04-03 07:29:43

Below is generated by plot.py at 2018-04-03 12:38:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.36 Mbit/s

95th percentile per-packet one-way delay: 113.981 ms

Loss rate: 0.79%

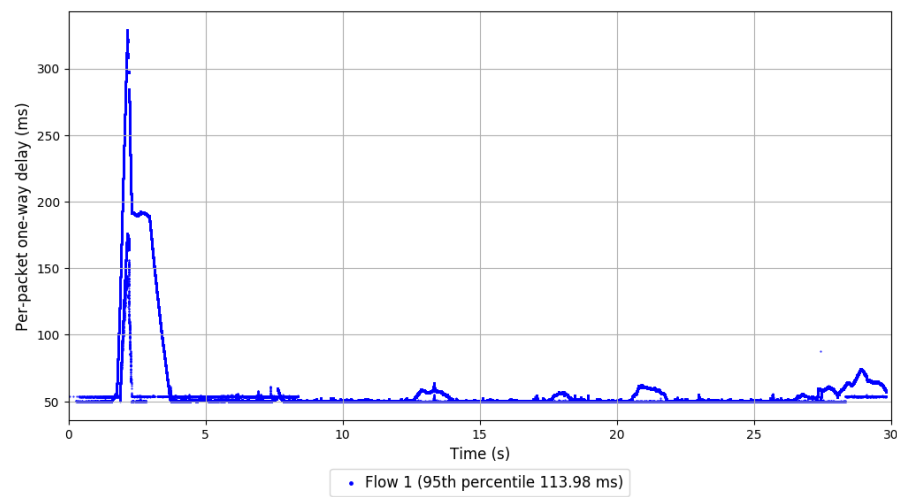
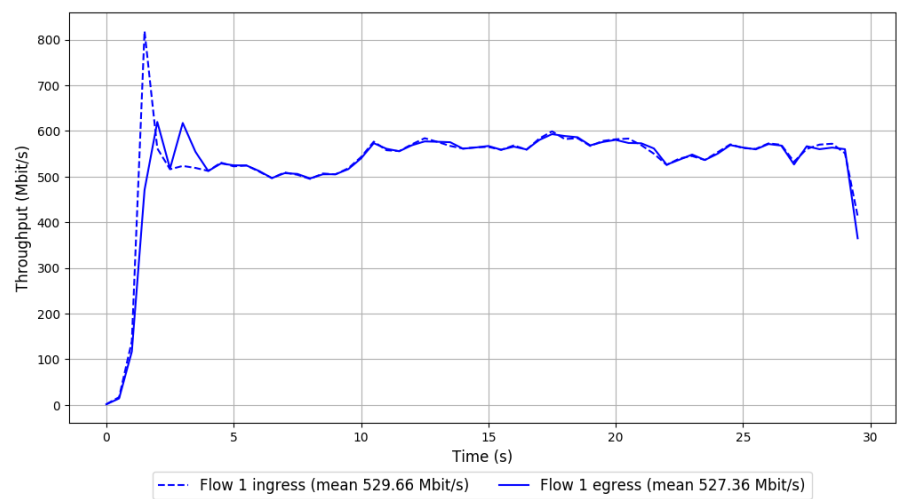
-- Flow 1:

Average throughput: 527.36 Mbit/s

95th percentile per-packet one-way delay: 113.981 ms

Loss rate: 0.79%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-03 07:43:24

End at: 2018-04-03 07:43:54

Below is generated by plot.py at 2018-04-03 12:38:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.77 Mbit/s

95th percentile per-packet one-way delay: 181.538 ms

Loss rate: 1.11%

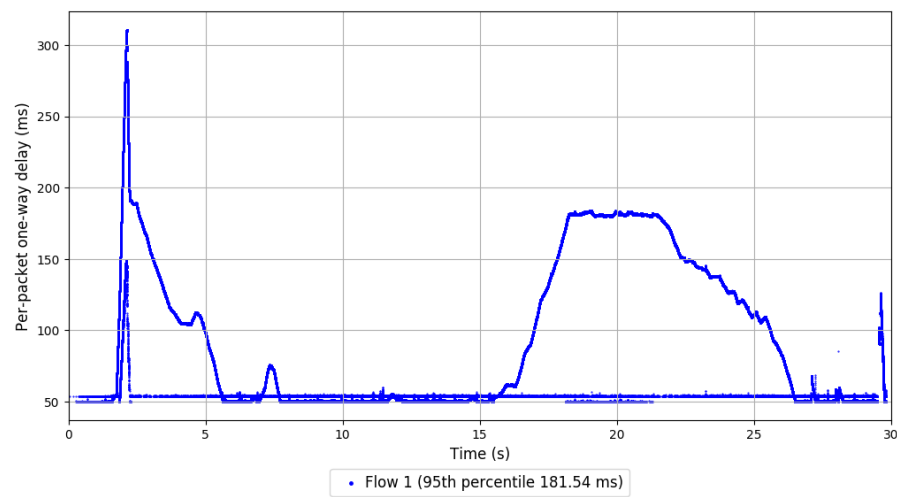
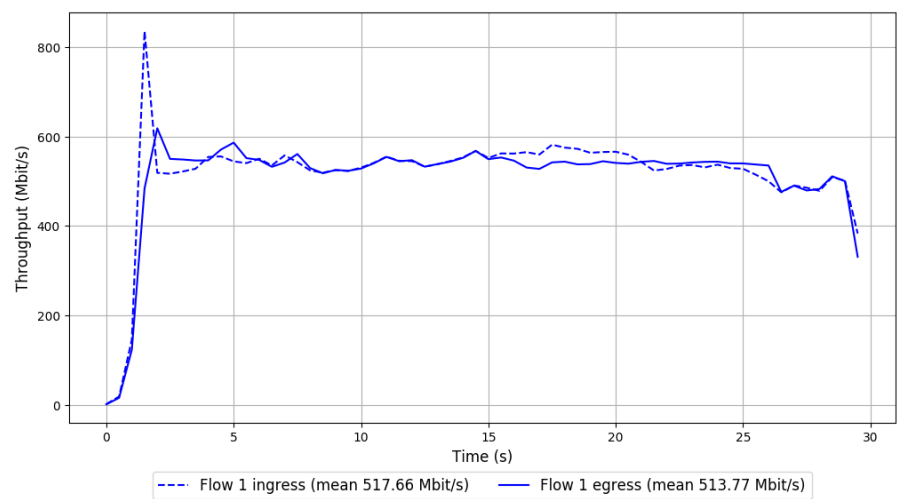
-- Flow 1:

Average throughput: 513.77 Mbit/s

95th percentile per-packet one-way delay: 181.538 ms

Loss rate: 1.11%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-03 07:57:46

End at: 2018-04-03 07:58:16

Below is generated by plot.py at 2018-04-03 12:38:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 489.11 Mbit/s

95th percentile per-packet one-way delay: 176.106 ms

Loss rate: 1.21%

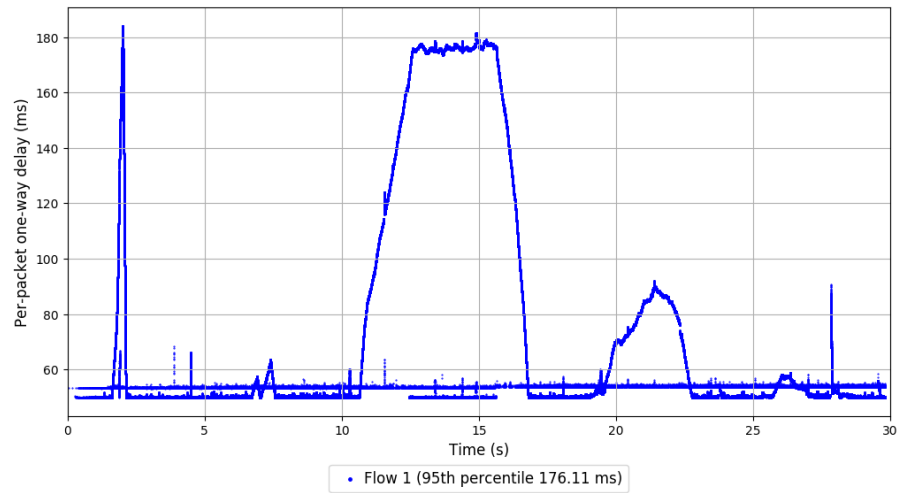
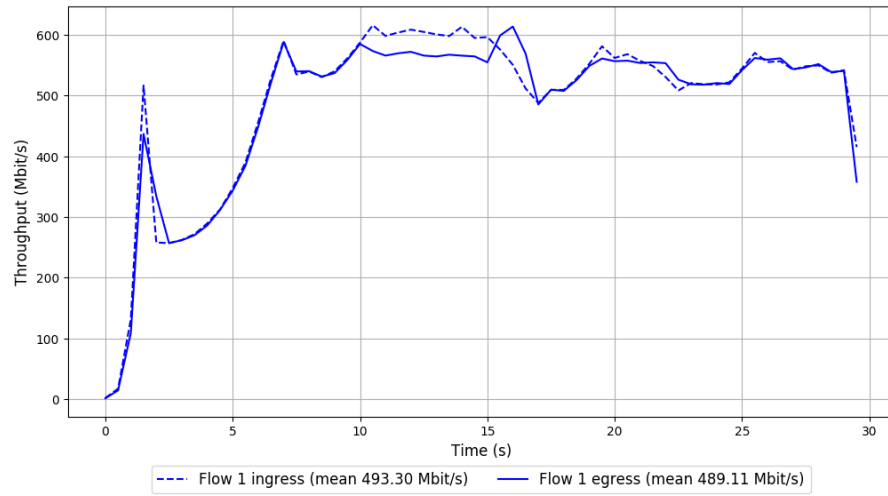
-- Flow 1:

Average throughput: 489.11 Mbit/s

95th percentile per-packet one-way delay: 176.106 ms

Loss rate: 1.21%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-03 08:11:45

End at: 2018-04-03 08:12:15

Below is generated by plot.py at 2018-04-03 12:39:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 532.58 Mbit/s

95th percentile per-packet one-way delay: 180.473 ms

Loss rate: 0.82%

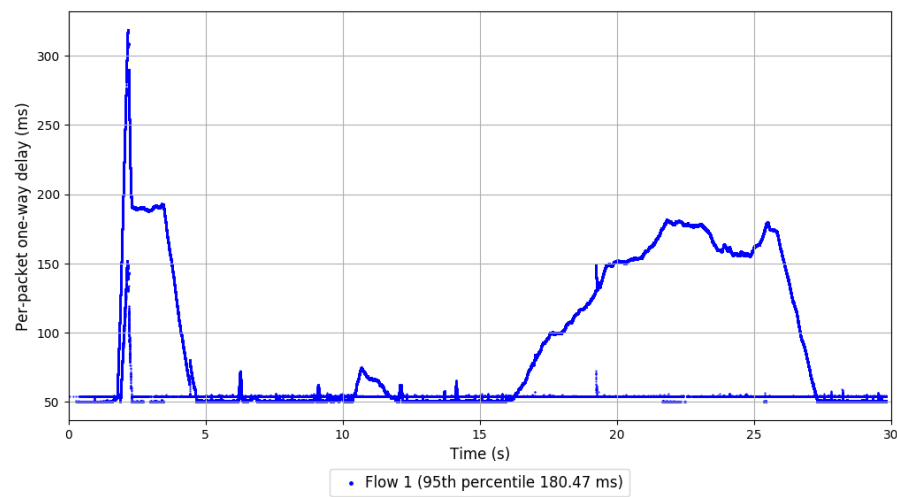
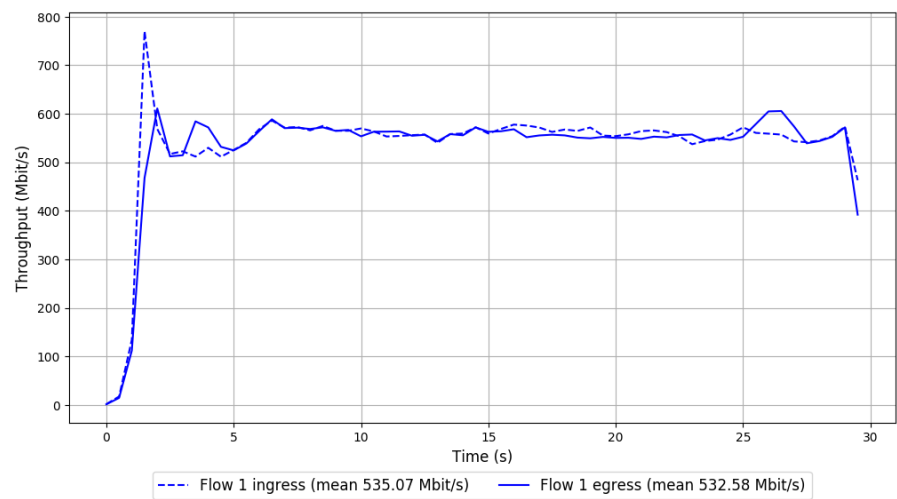
-- Flow 1:

Average throughput: 532.58 Mbit/s

95th percentile per-packet one-way delay: 180.473 ms

Loss rate: 0.82%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-03 08:26:09

End at: 2018-04-03 08:26:39

Below is generated by plot.py at 2018-04-03 12:39:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 528.43 Mbit/s

95th percentile per-packet one-way delay: 185.979 ms

Loss rate: 3.57%

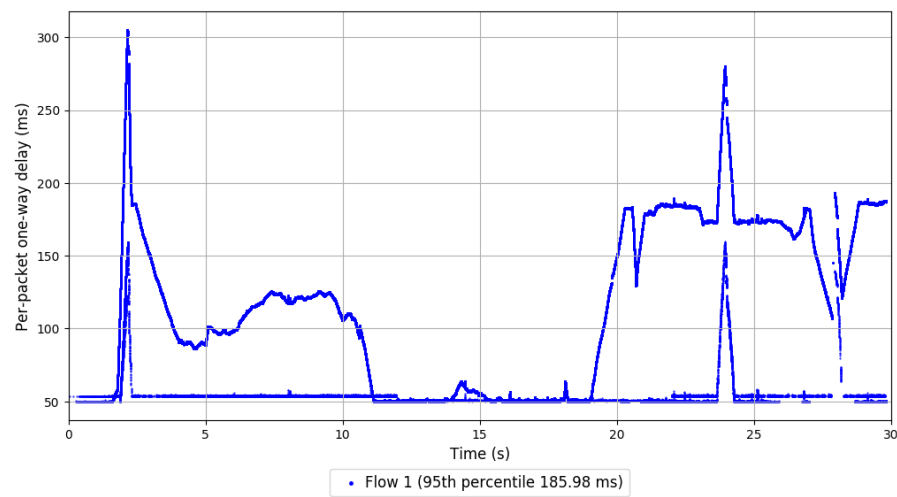
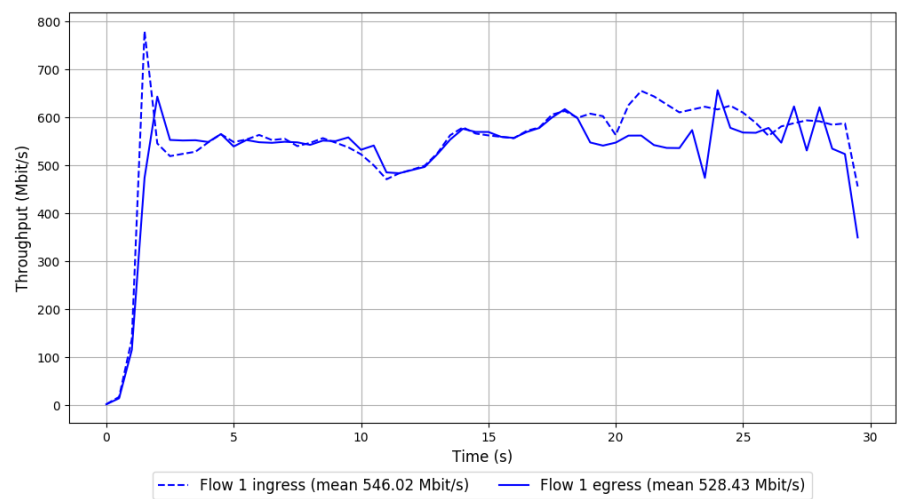
-- Flow 1:

Average throughput: 528.43 Mbit/s

95th percentile per-packet one-way delay: 185.979 ms

Loss rate: 3.57%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-03 08:40:39

End at: 2018-04-03 08:41:09

Below is generated by plot.py at 2018-04-03 12:39:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 522.41 Mbit/s

95th percentile per-packet one-way delay: 178.958 ms

Loss rate: 1.63%

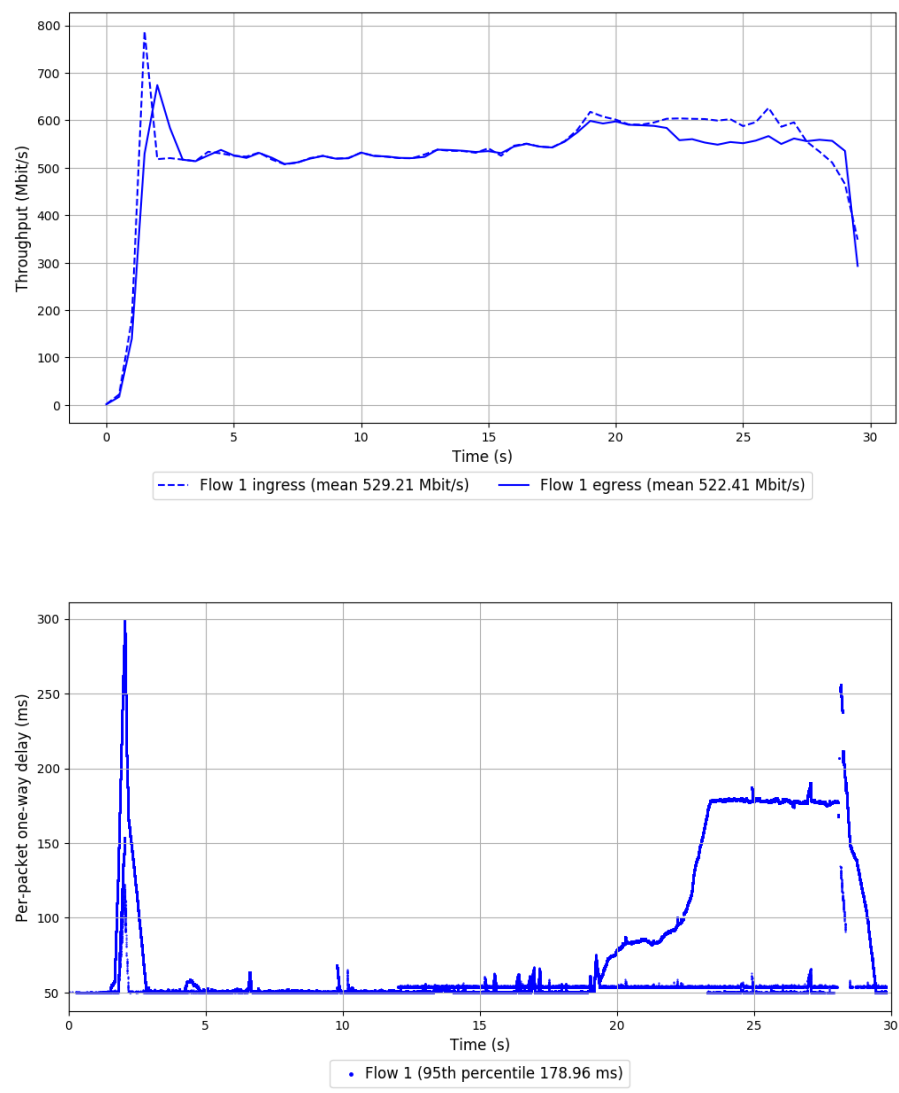
-- Flow 1:

Average throughput: 522.41 Mbit/s

95th percentile per-packet one-way delay: 178.958 ms

Loss rate: 1.63%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-03 08:55:30

End at: 2018-04-03 08:56:00

Below is generated by plot.py at 2018-04-03 12:39:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.05 Mbit/s

95th percentile per-packet one-way delay: 124.282 ms

Loss rate: 0.38%

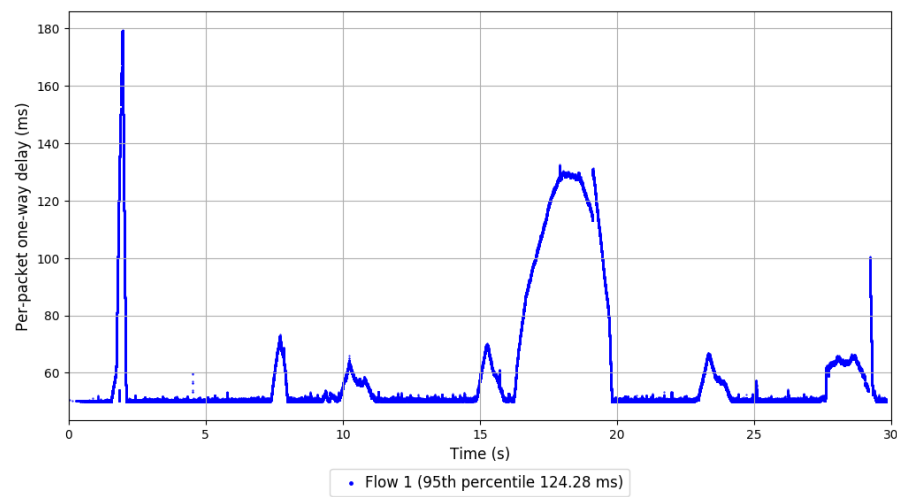
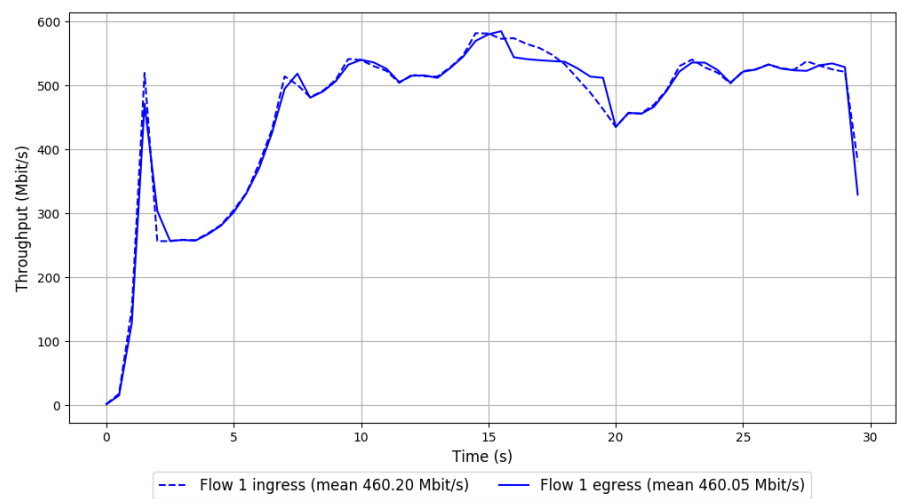
-- Flow 1:

Average throughput: 460.05 Mbit/s

95th percentile per-packet one-way delay: 124.282 ms

Loss rate: 0.38%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-03 09:09:57

End at: 2018-04-03 09:10:27

Below is generated by plot.py at 2018-04-03 12:42:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.41 Mbit/s

95th percentile per-packet one-way delay: 174.411 ms

Loss rate: 1.15%

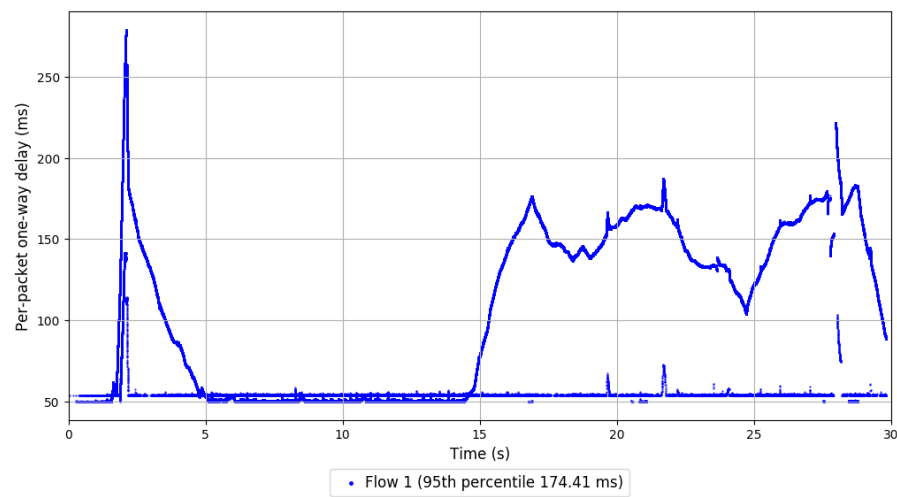
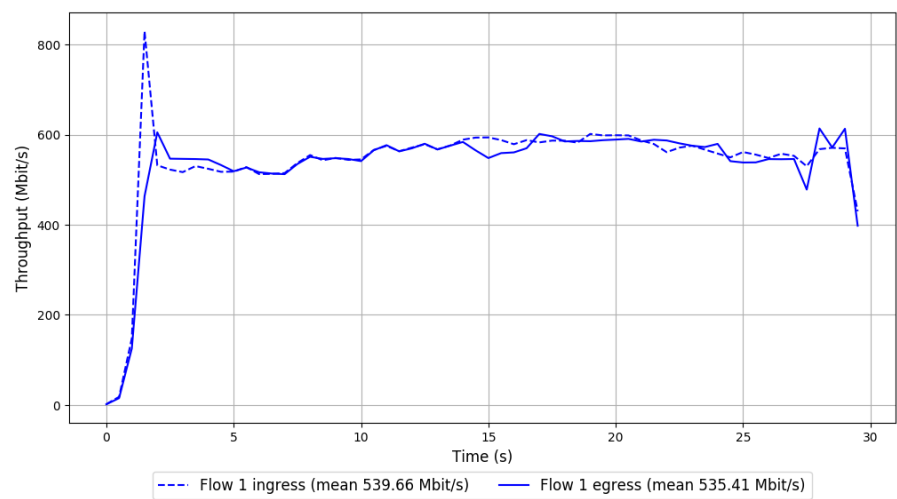
-- Flow 1:

Average throughput: 535.41 Mbit/s

95th percentile per-packet one-way delay: 174.411 ms

Loss rate: 1.15%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-03 09:24:34

End at: 2018-04-03 09:25:04

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 522.38 Mbit/s

95th percentile per-packet one-way delay: 174.185 ms

Loss rate: 0.68%

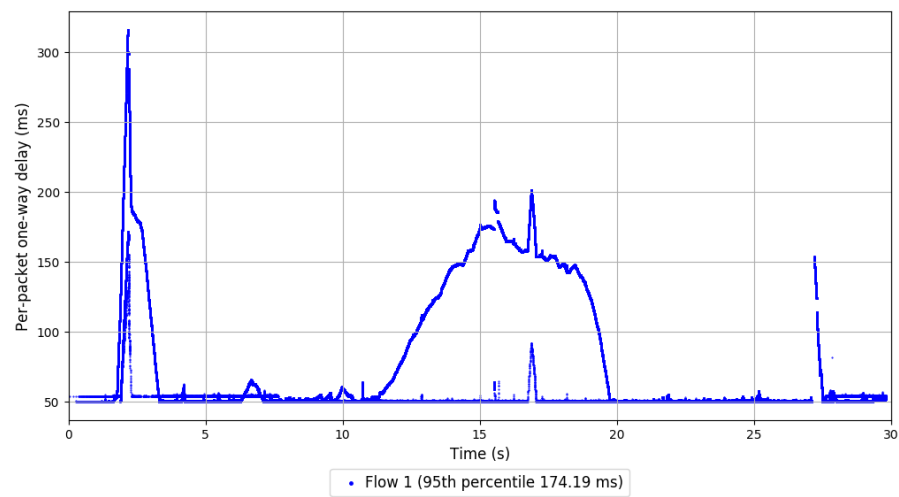
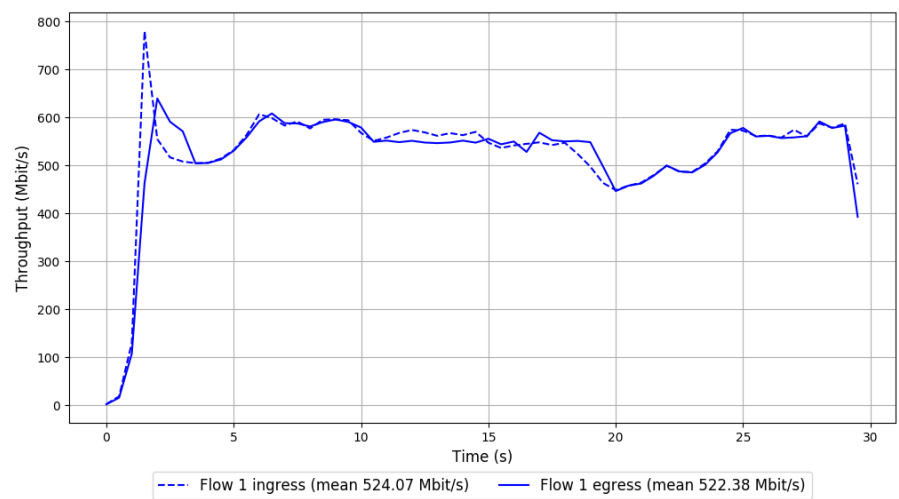
-- Flow 1:

Average throughput: 522.38 Mbit/s

95th percentile per-packet one-way delay: 174.185 ms

Loss rate: 0.68%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-03 09:39:21

End at: 2018-04-03 09:39:51

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.50 Mbit/s

95th percentile per-packet one-way delay: 226.248 ms

Loss rate: 2.76%

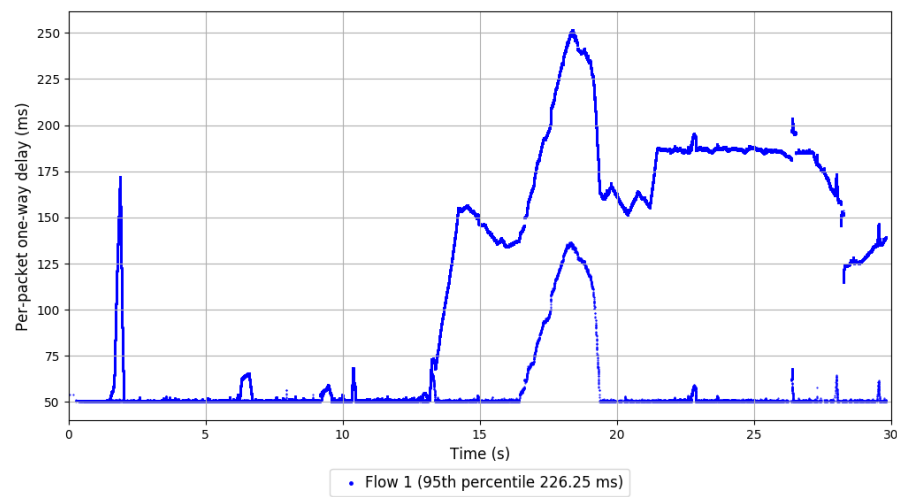
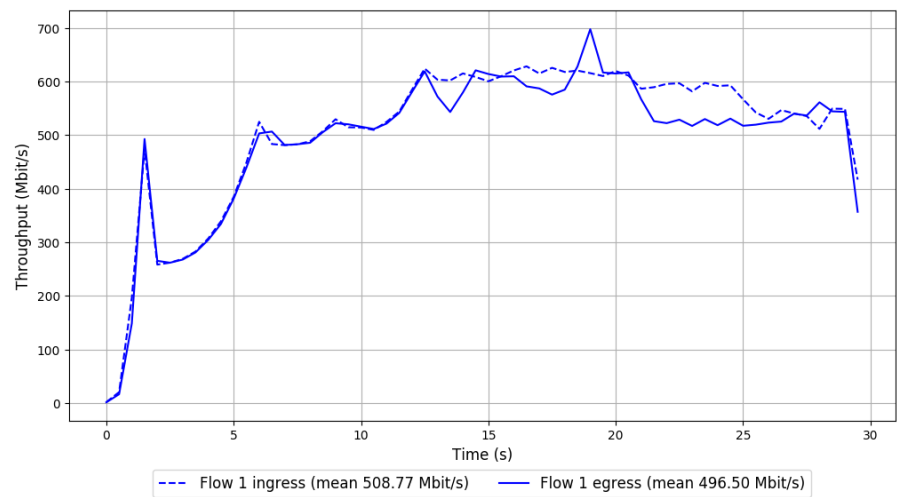
-- Flow 1:

Average throughput: 496.50 Mbit/s

95th percentile per-packet one-way delay: 226.248 ms

Loss rate: 2.76%

Run 10: Report of PCC — Data Link

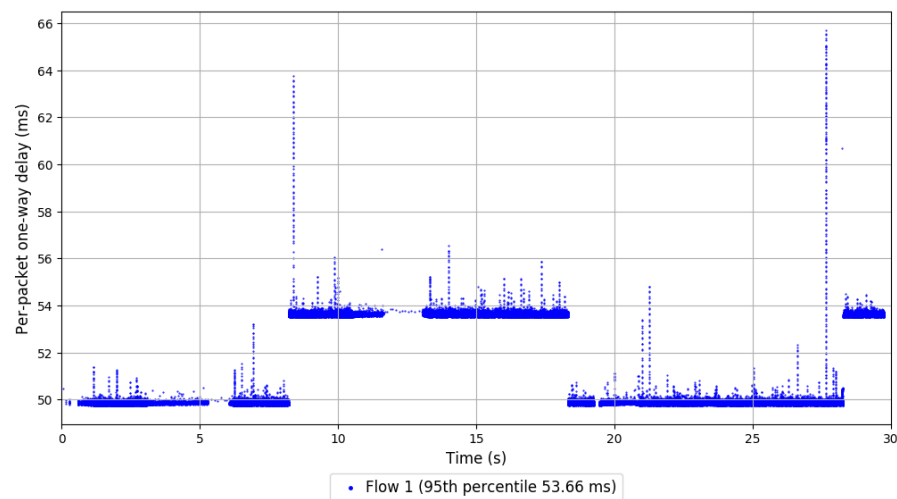
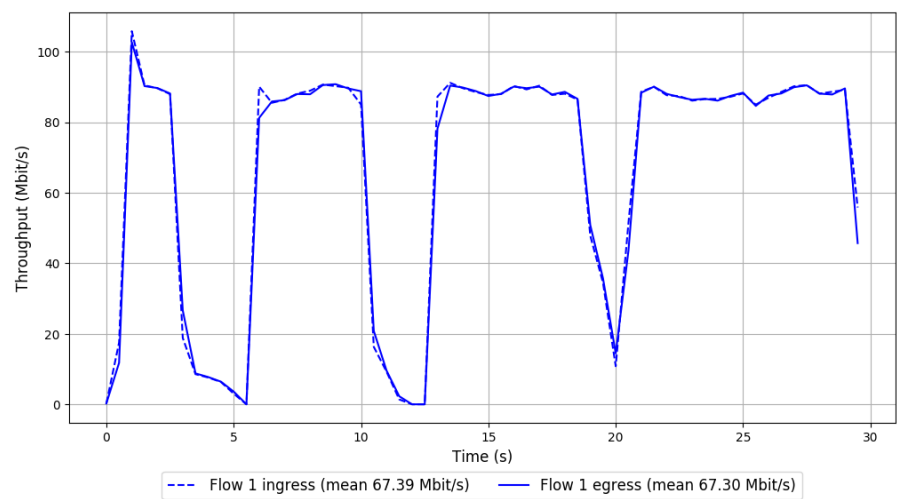


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-03 07:26:23
End at: 2018-04-03 07:26:53

# Below is generated by plot.py at 2018-04-03 12:49:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.30 Mbit/s
95th percentile per-packet one-way delay: 53.657 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 67.30 Mbit/s
95th percentile per-packet one-way delay: 53.657 ms
Loss rate: 0.49%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-03 07:40:38

End at: 2018-04-03 07:41:08

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.07 Mbit/s

95th percentile per-packet one-way delay: 50.131 ms

Loss rate: 0.42%

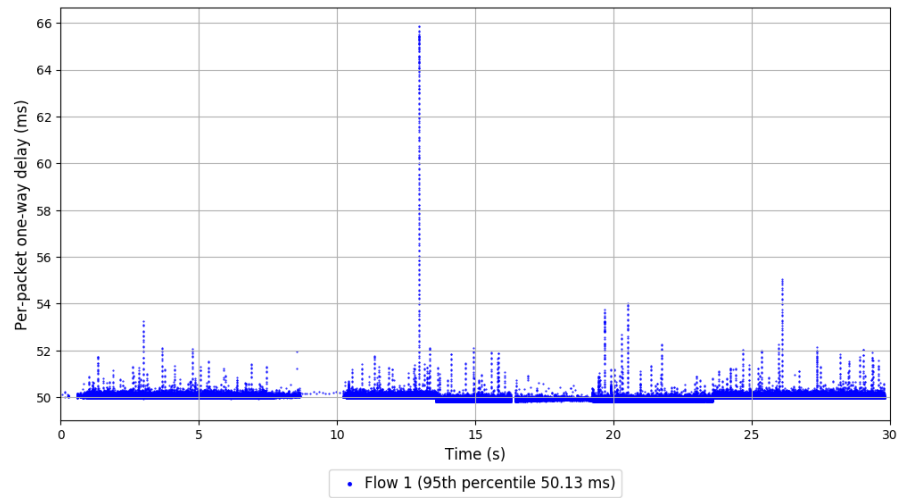
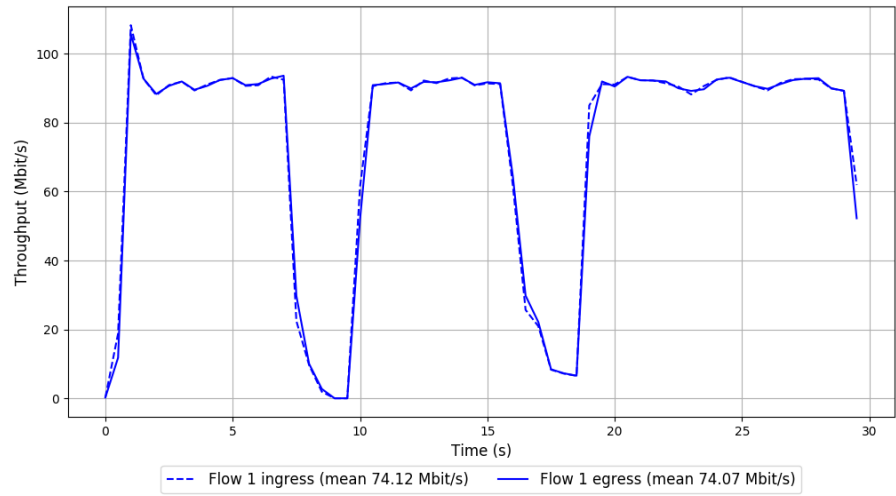
-- Flow 1:

Average throughput: 74.07 Mbit/s

95th percentile per-packet one-way delay: 50.131 ms

Loss rate: 0.42%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-03 07:54:55

End at: 2018-04-03 07:55:25

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 53.631 ms

Loss rate: 0.00%

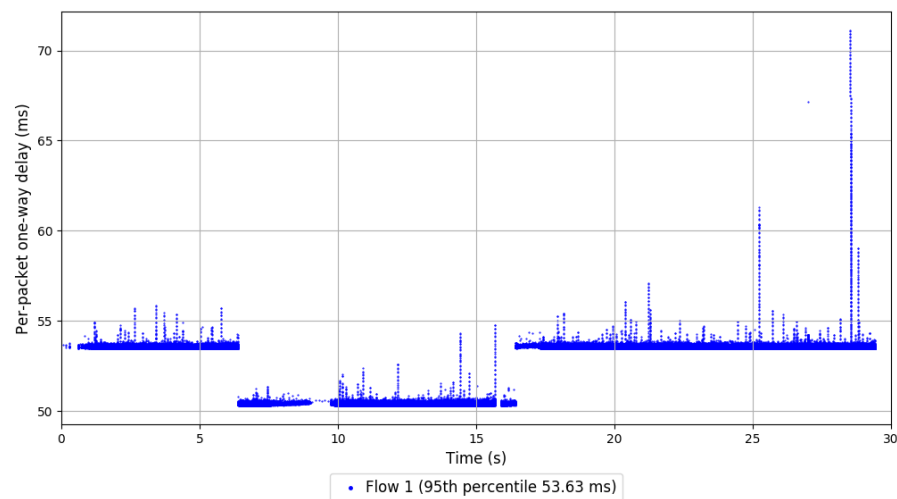
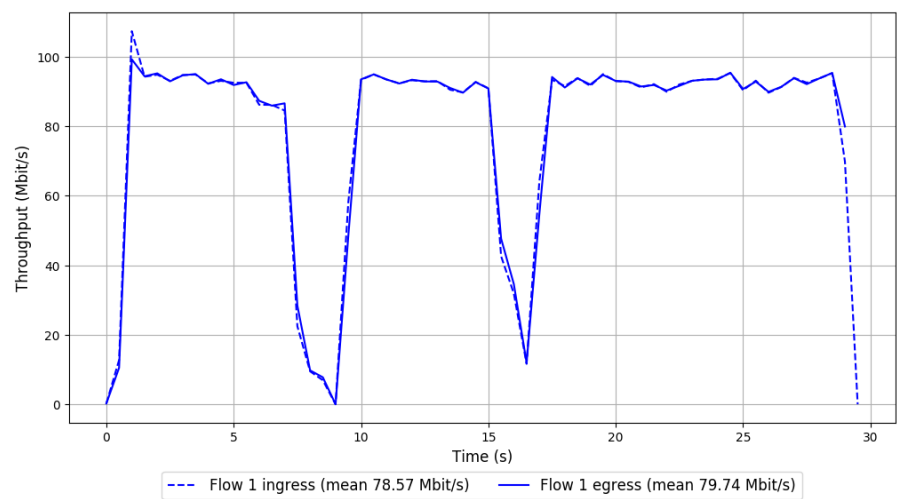
-- Flow 1:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 53.631 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-03 08:08:57

End at: 2018-04-03 08:09:27

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.50%

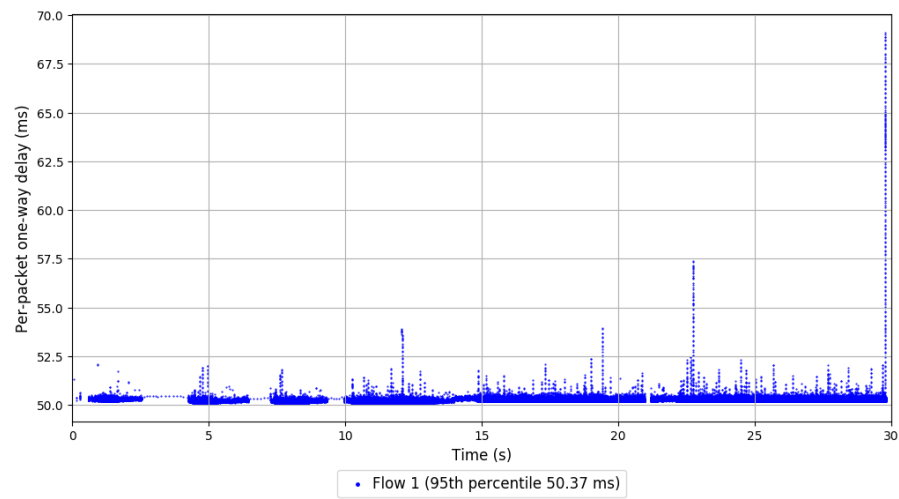
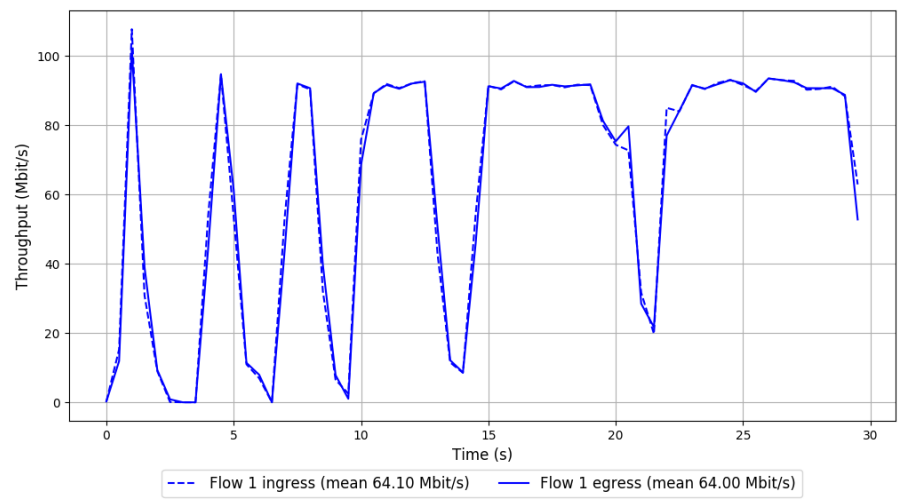
-- Flow 1:

Average throughput: 64.00 Mbit/s

95th percentile per-packet one-way delay: 50.370 ms

Loss rate: 0.50%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-03 08:23:19

End at: 2018-04-03 08:23:49

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 0.47%

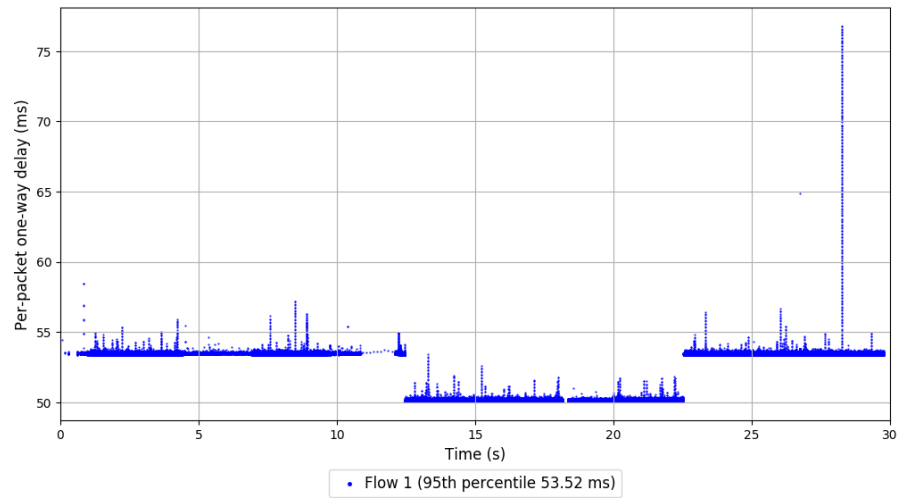
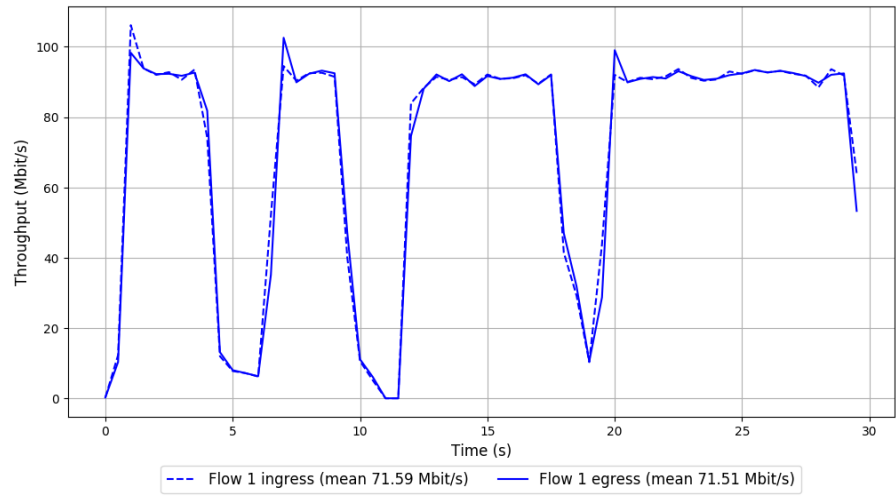
-- Flow 1:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 0.47%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-03 08:37:51

End at: 2018-04-03 08:38:21

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.92 Mbit/s

95th percentile per-packet one-way delay: 50.061 ms

Loss rate: 0.50%

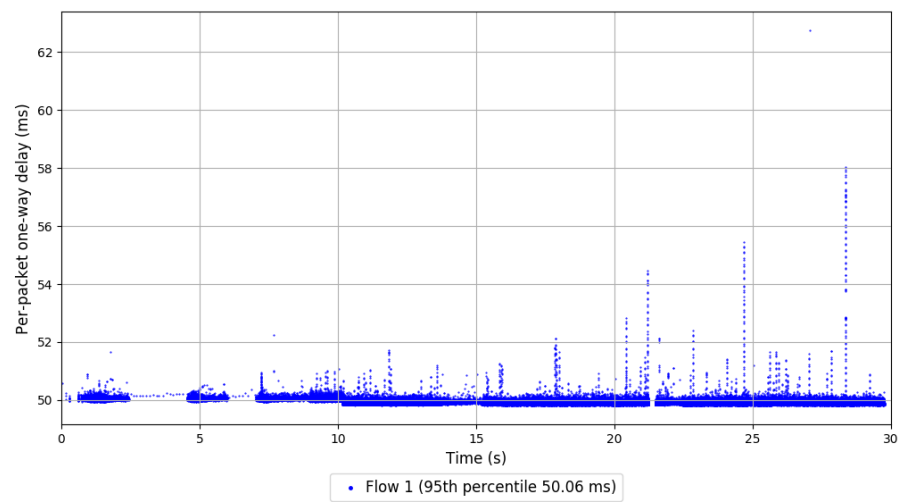
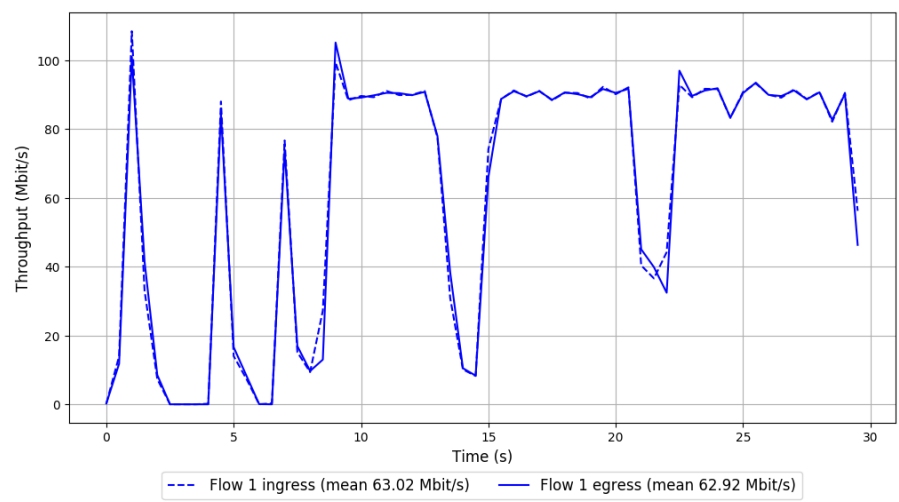
-- Flow 1:

Average throughput: 62.92 Mbit/s

95th percentile per-packet one-way delay: 50.061 ms

Loss rate: 0.50%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-03 08:52:26

End at: 2018-04-03 08:52:56

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.80 Mbit/s

95th percentile per-packet one-way delay: 53.593 ms

Loss rate: 0.45%

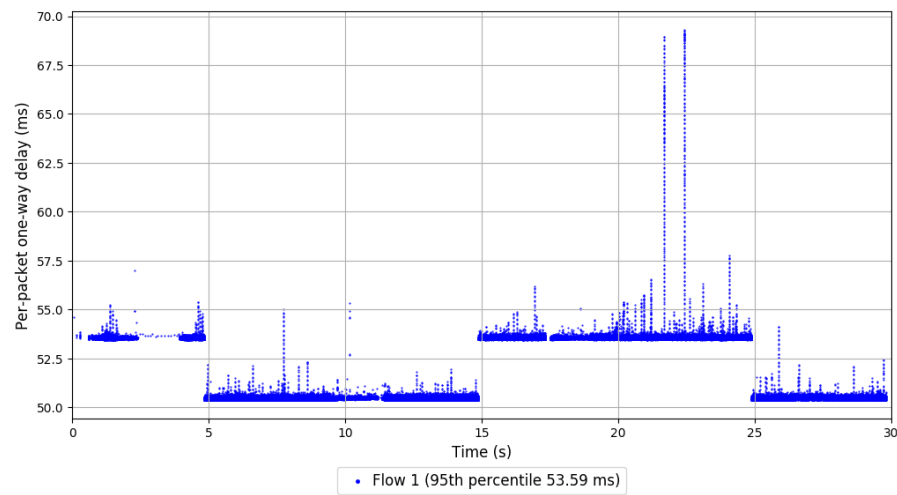
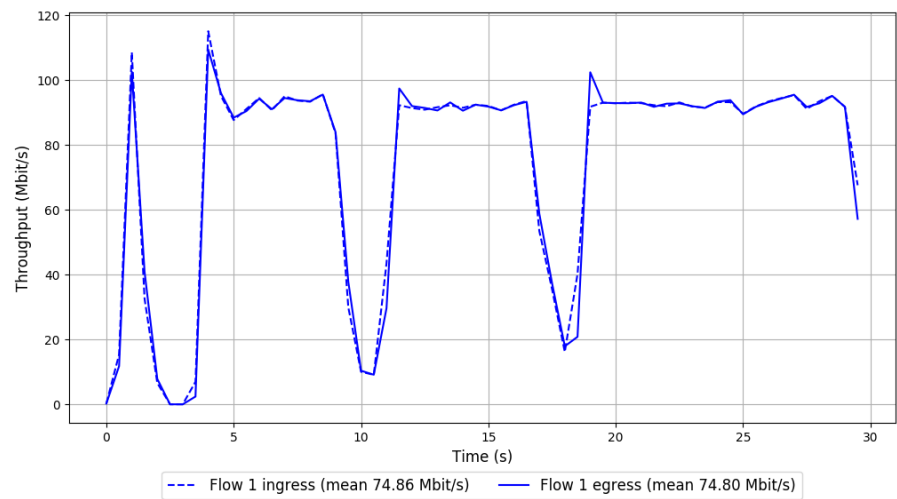
-- Flow 1:

Average throughput: 74.80 Mbit/s

95th percentile per-packet one-way delay: 53.593 ms

Loss rate: 0.45%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-03 09:07:01

End at: 2018-04-03 09:07:31

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.65 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.45%

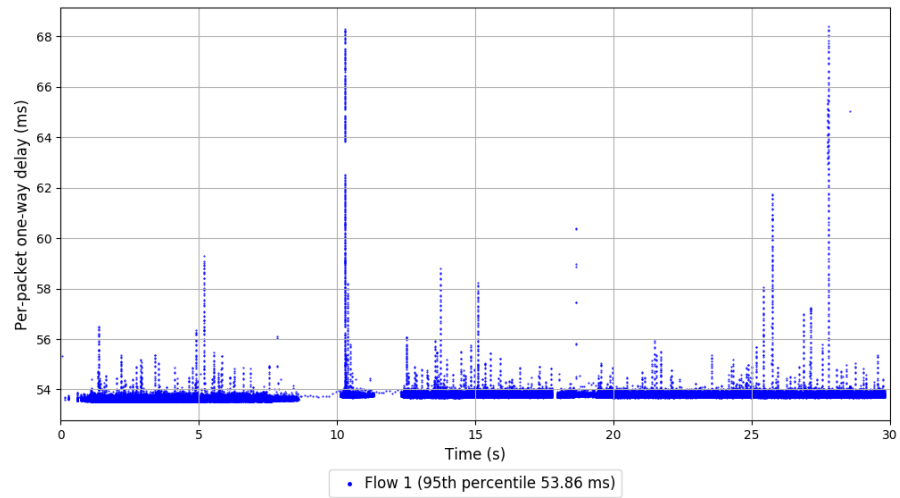
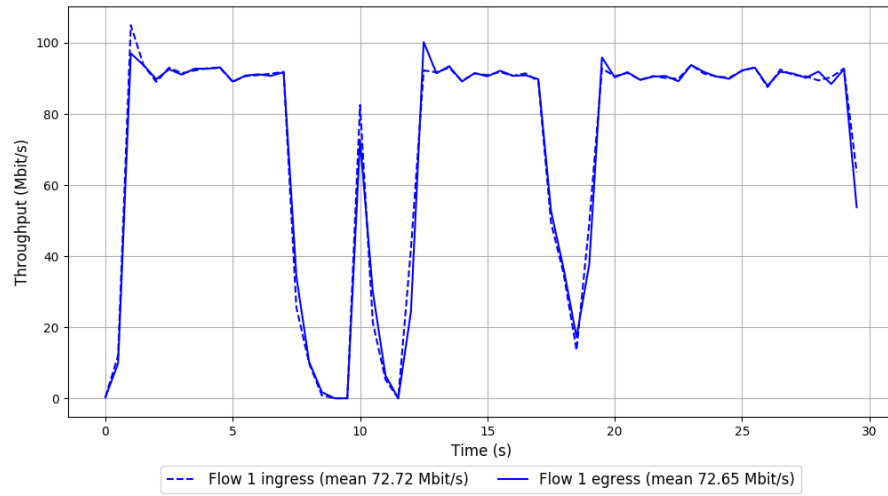
-- Flow 1:

Average throughput: 72.65 Mbit/s

95th percentile per-packet one-way delay: 53.859 ms

Loss rate: 0.45%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-03 09:21:28

End at: 2018-04-03 09:21:58

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 53.285 ms

Loss rate: 0.43%

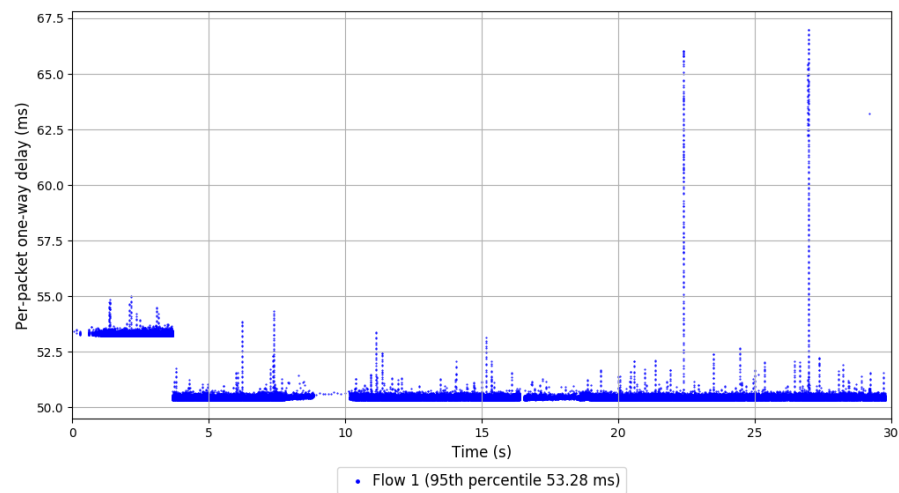
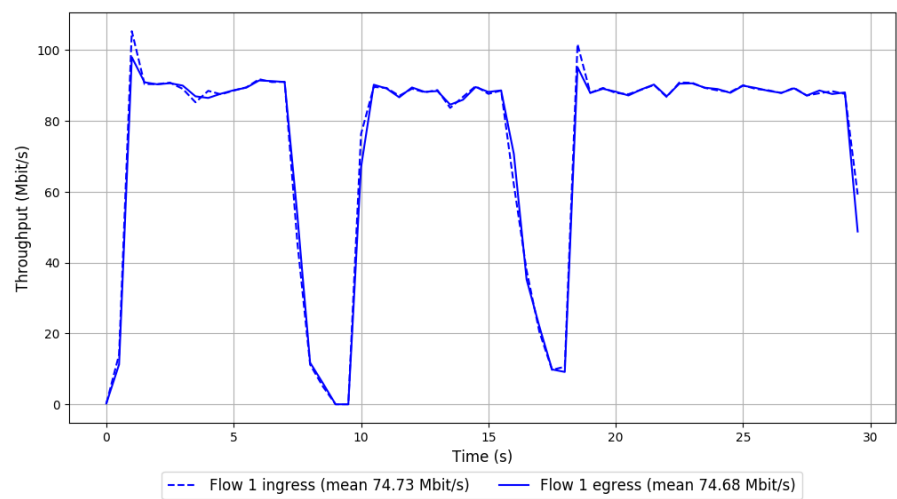
-- Flow 1:

Average throughput: 74.68 Mbit/s

95th percentile per-packet one-way delay: 53.285 ms

Loss rate: 0.43%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-03 09:36:08

End at: 2018-04-03 09:36:38

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.16 Mbit/s

95th percentile per-packet one-way delay: 50.208 ms

Loss rate: 0.45%

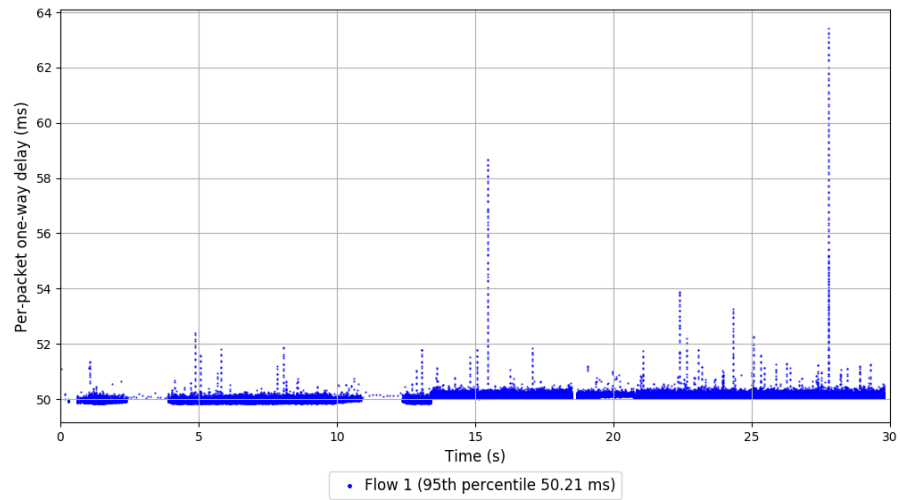
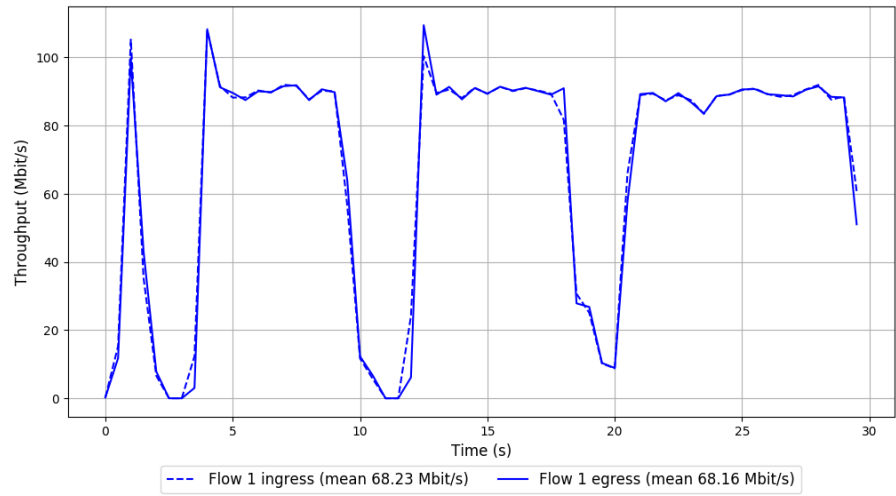
-- Flow 1:

Average throughput: 68.16 Mbit/s

95th percentile per-packet one-way delay: 50.208 ms

Loss rate: 0.45%

Run 10: Report of QUIC Cubic — Data Link

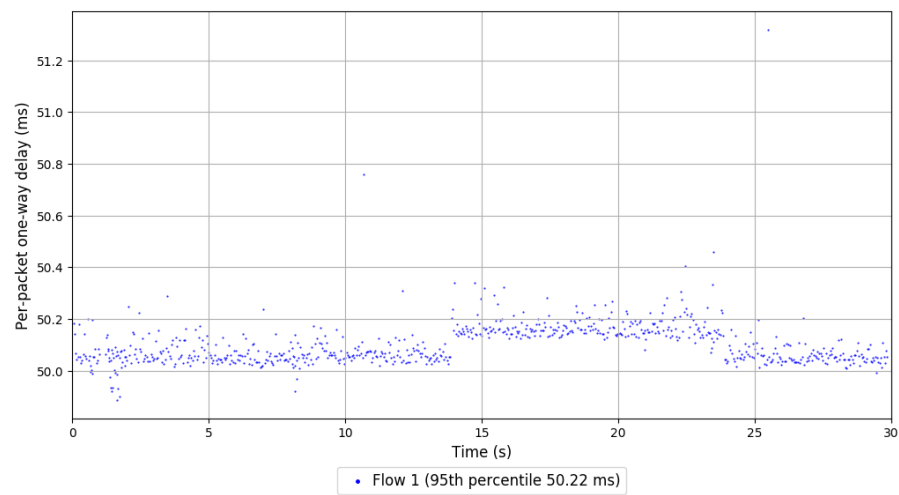
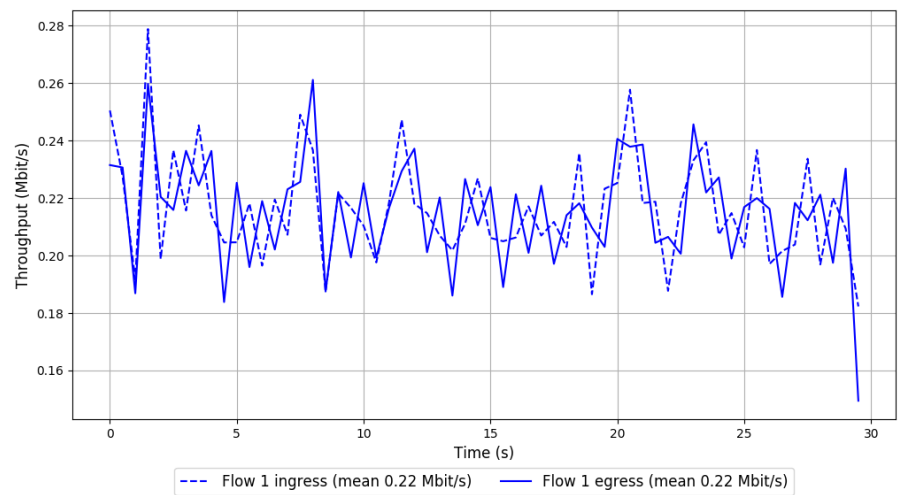


```
Run 1: Statistics of SCReAM

Start at: 2018-04-03 07:30:07
End at: 2018-04-03 07:30:37

# Below is generated by plot.py at 2018-04-03 12:49:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.223 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.223 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-03 07:44:18

End at: 2018-04-03 07:44:48

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.160 ms

Loss rate: 0.38%

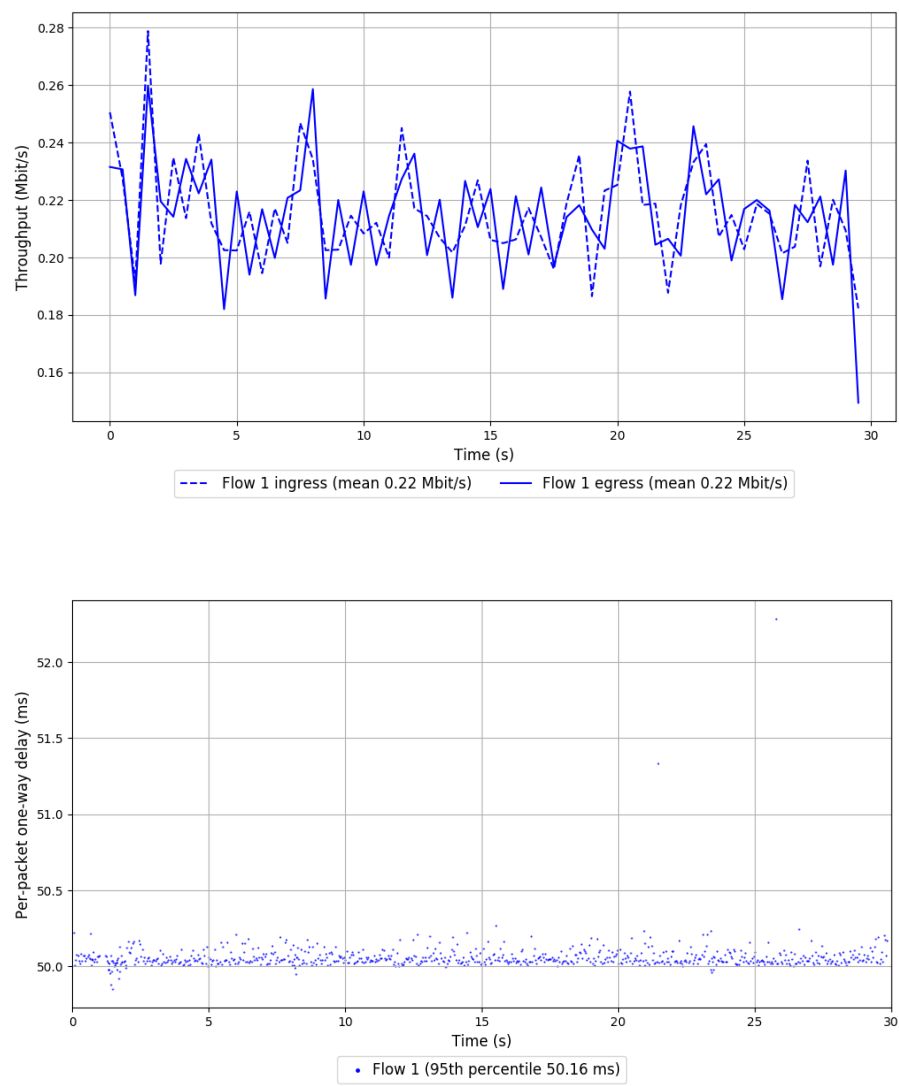
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.160 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-03 07:58:39

End at: 2018-04-03 07:59:09

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.281 ms

Loss rate: 0.38%

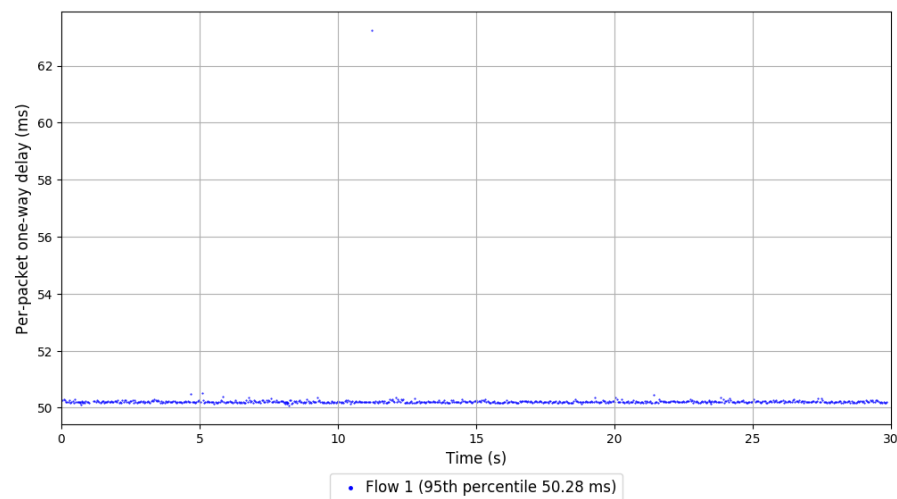
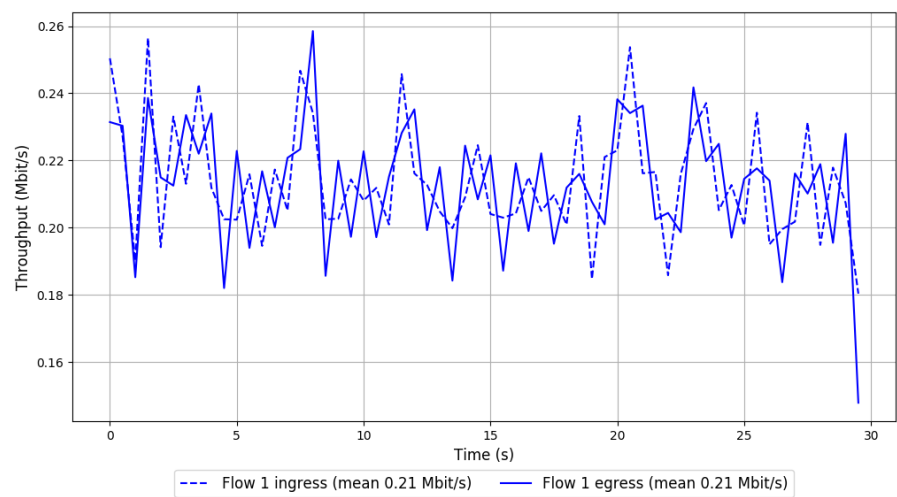
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.281 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-03 08:12:41

End at: 2018-04-03 08:13:11

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.759 ms

Loss rate: 0.38%

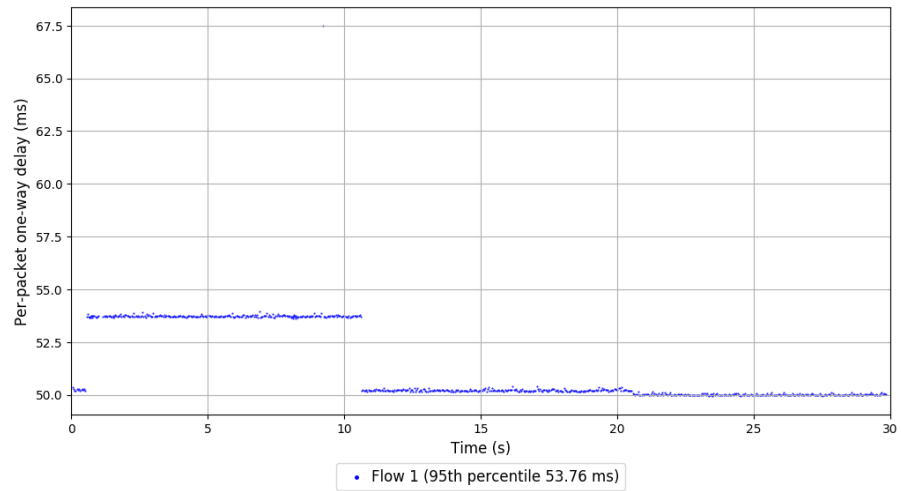
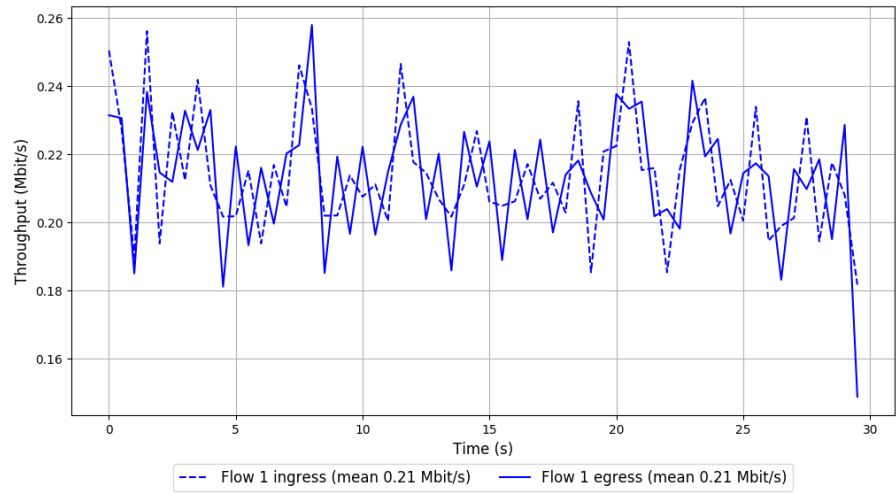
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.759 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-03 08:27:04

End at: 2018-04-03 08:27:34

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.926 ms

Loss rate: 0.38%

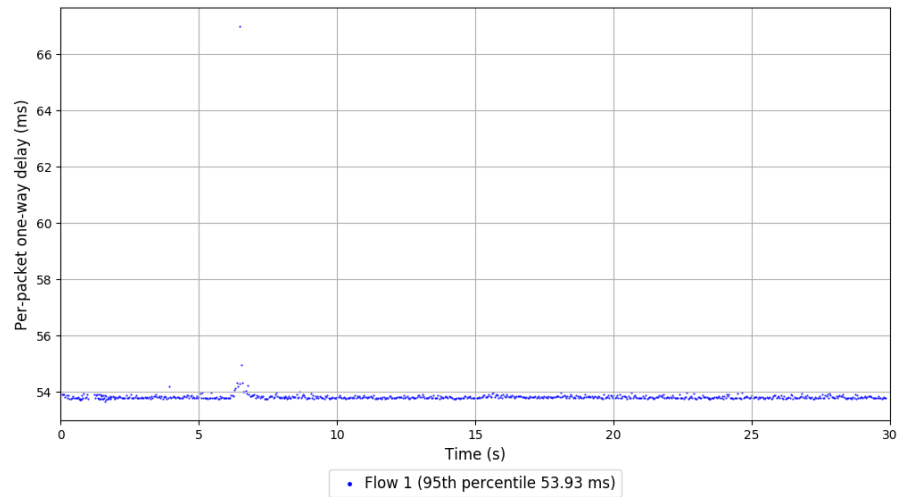
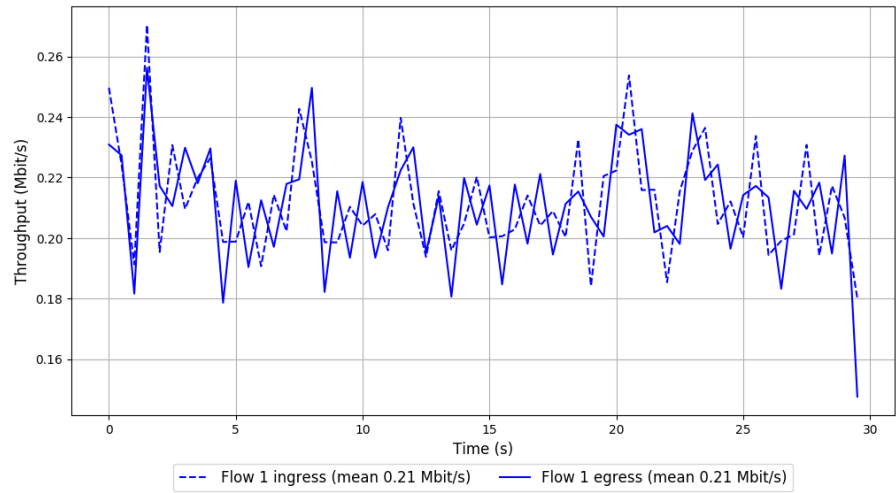
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.926 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-03 08:41:34

End at: 2018-04-03 08:42:04

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.455 ms

Loss rate: 0.38%

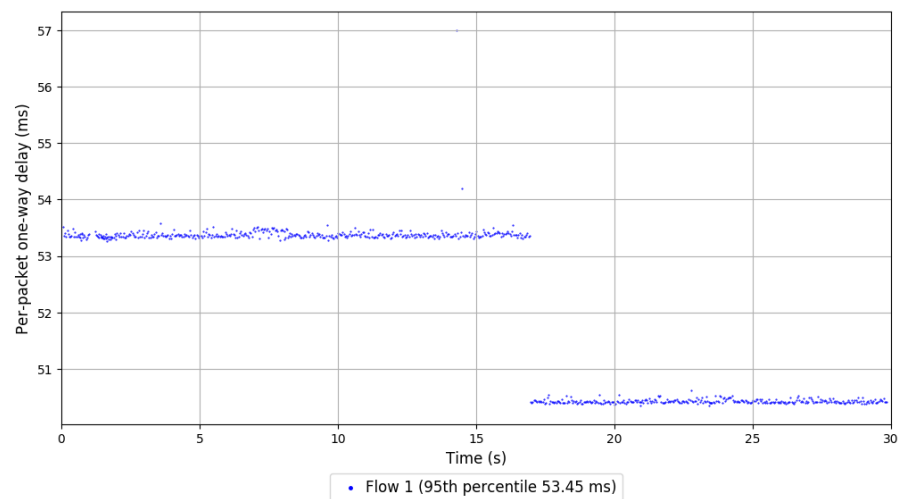
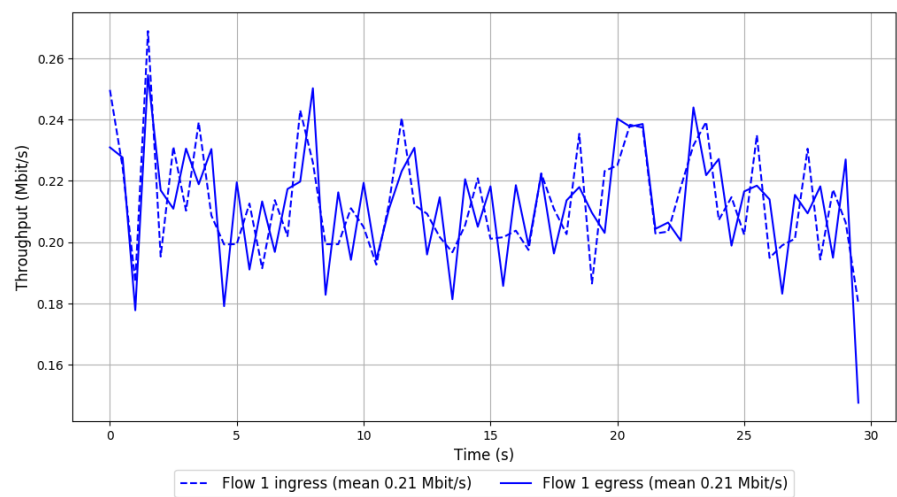
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.455 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-03 08:56:23

End at: 2018-04-03 08:56:53

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.743 ms

Loss rate: 0.38%

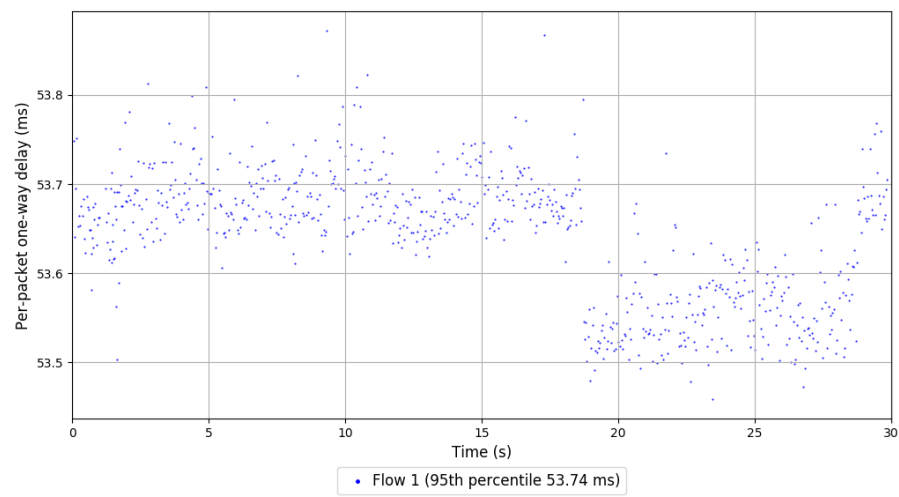
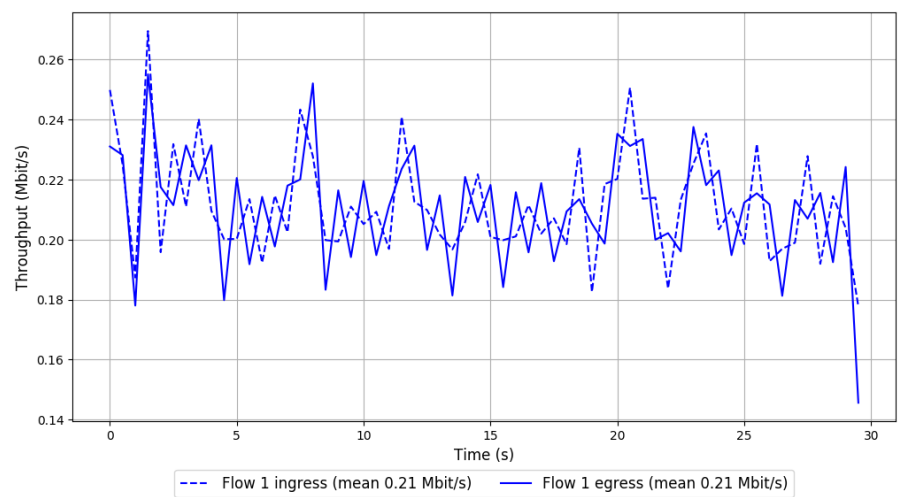
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.743 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-03 09:10:52

End at: 2018-04-03 09:11:22

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.51%

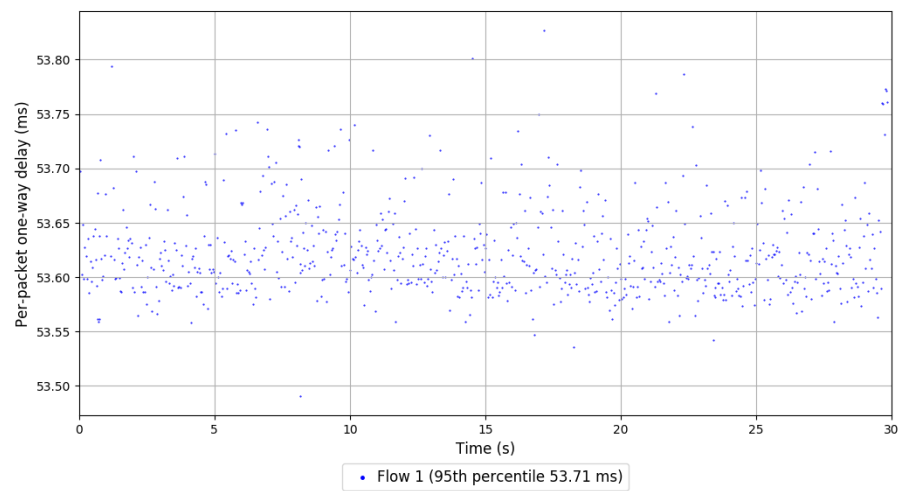
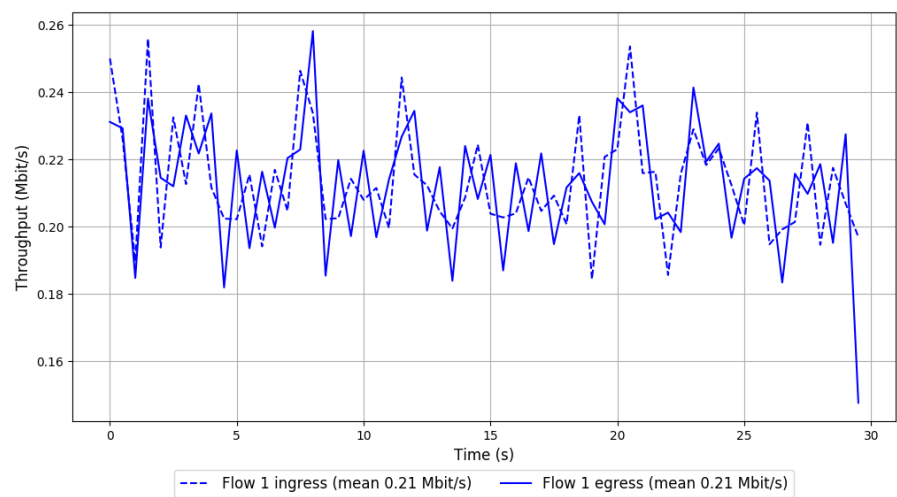
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.51%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-03 09:25:28

End at: 2018-04-03 09:25:58

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.443 ms

Loss rate: 0.38%

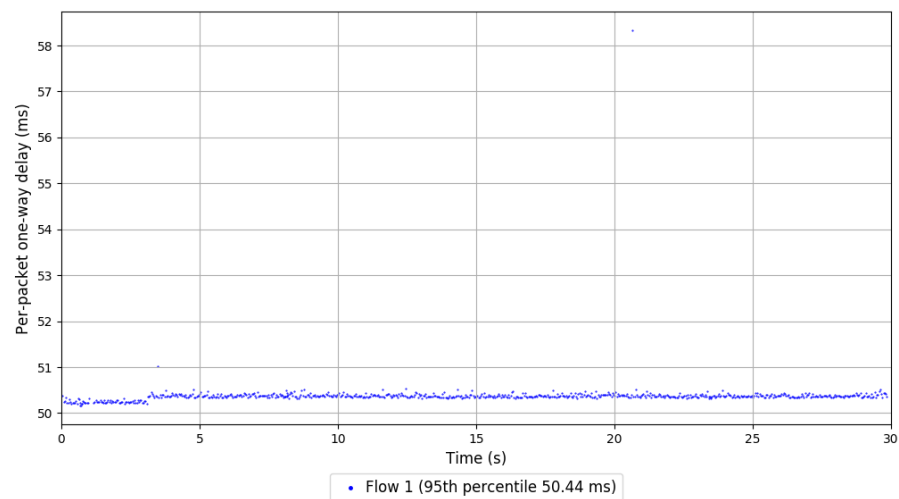
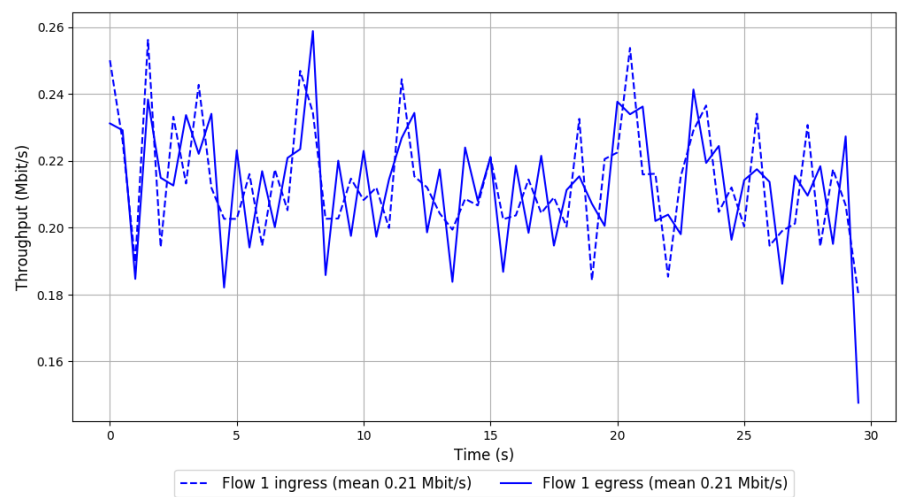
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.443 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-03 09:40:15

End at: 2018-04-03 09:40:45

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.511 ms

Loss rate: 0.38%

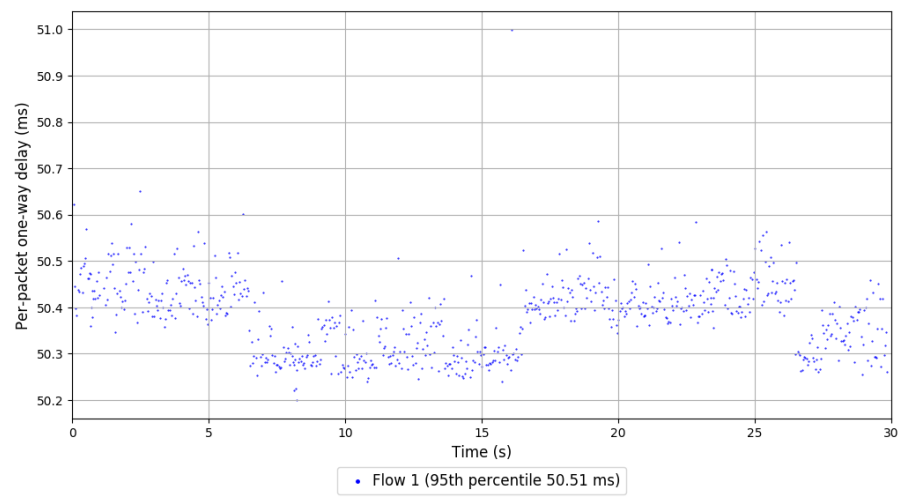
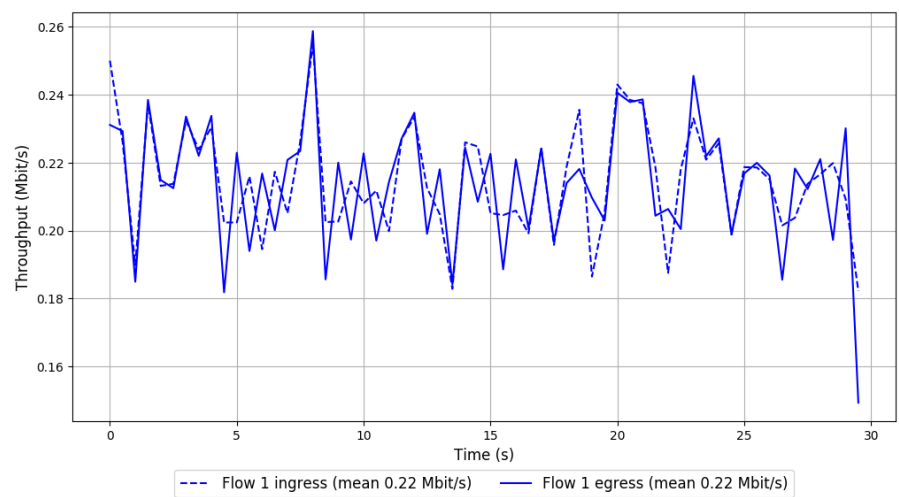
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.511 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

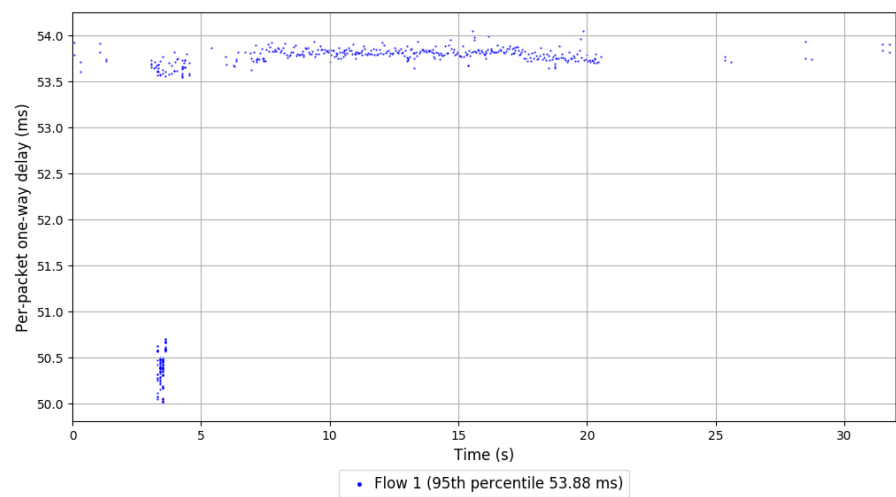
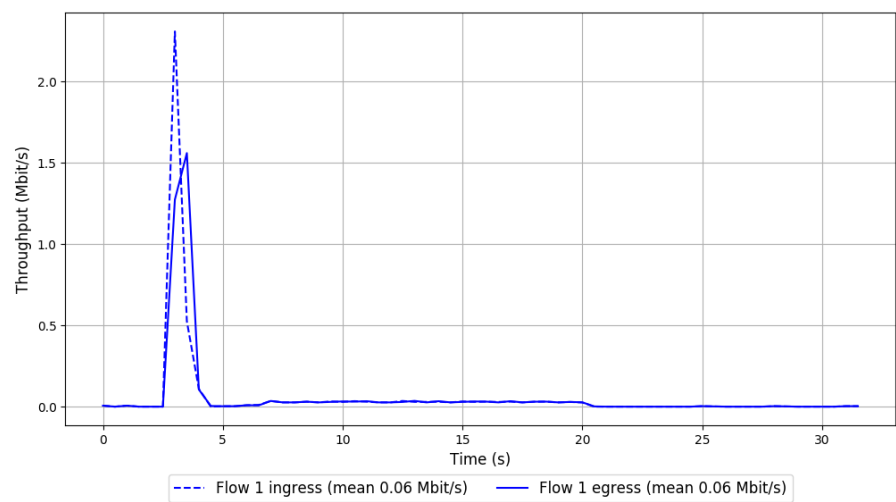


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-03 07:19:56
End at: 2018-04-03 07:20:26

# Below is generated by plot.py at 2018-04-03 12:49:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.884 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.884 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-03 07:34:13

End at: 2018-04-03 07:34:43

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.290 ms

Loss rate: 0.00%

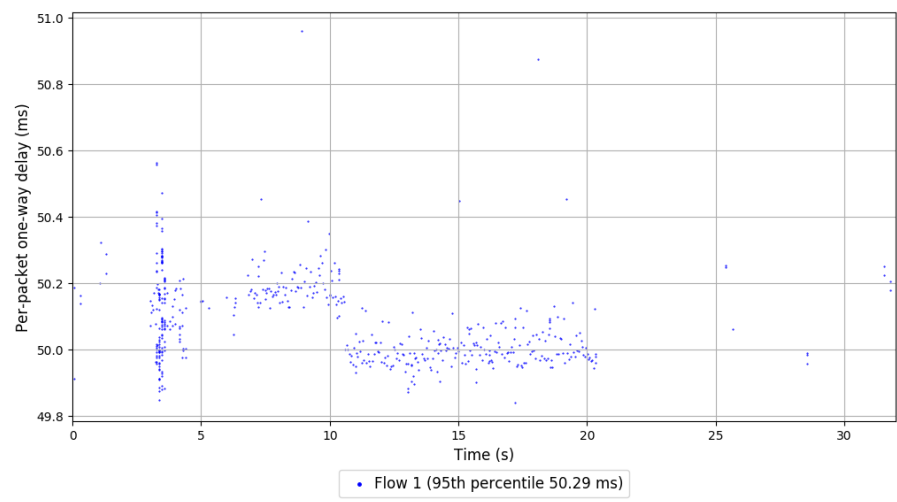
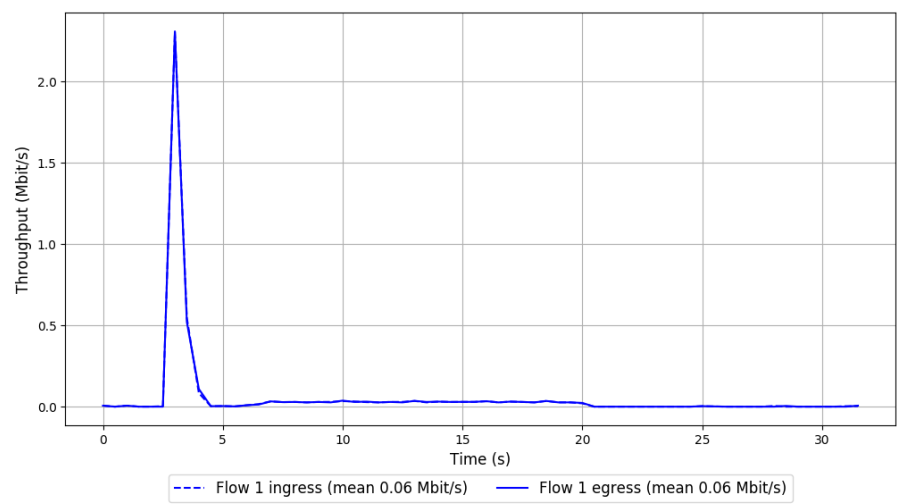
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.290 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-03 07:48:27

End at: 2018-04-03 07:48:57

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.436 ms

Loss rate: 0.00%

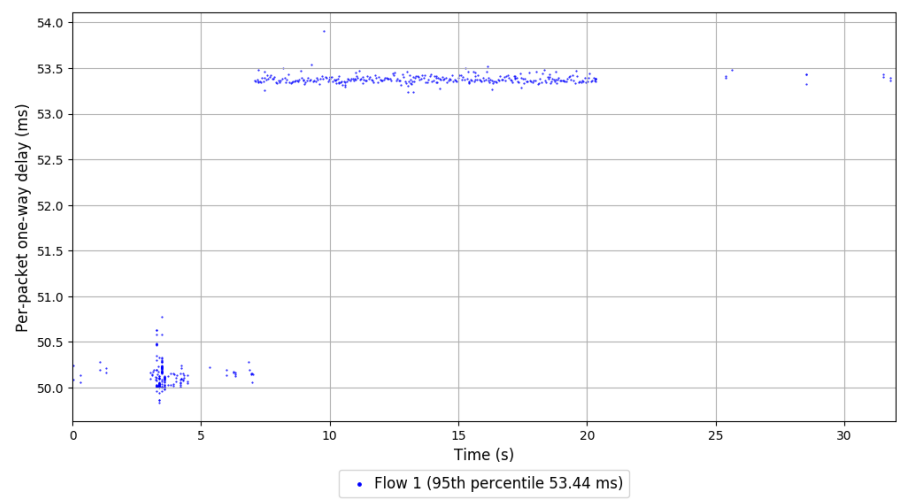
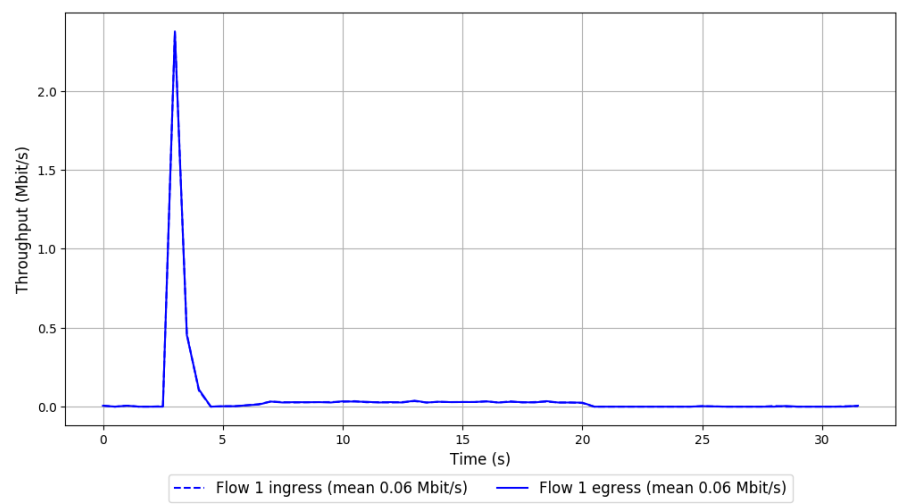
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.436 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-03 08:02:34

End at: 2018-04-03 08:03:04

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.508 ms

Loss rate: 0.00%

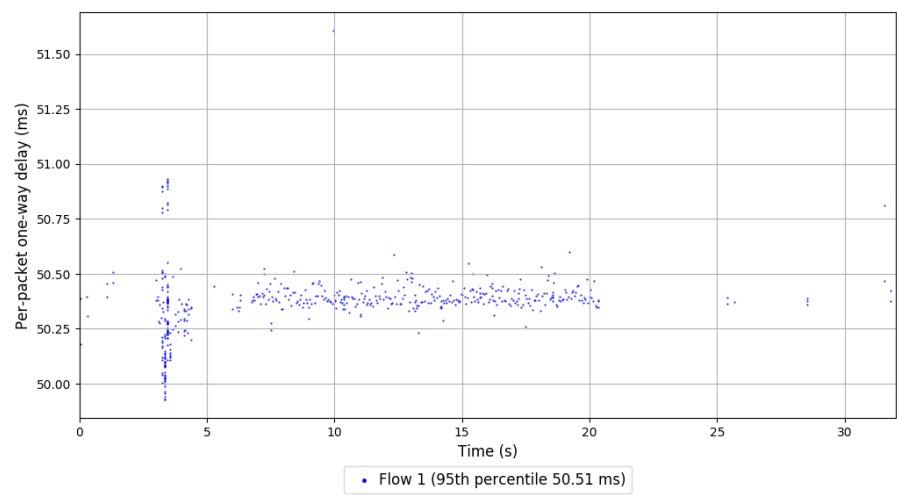
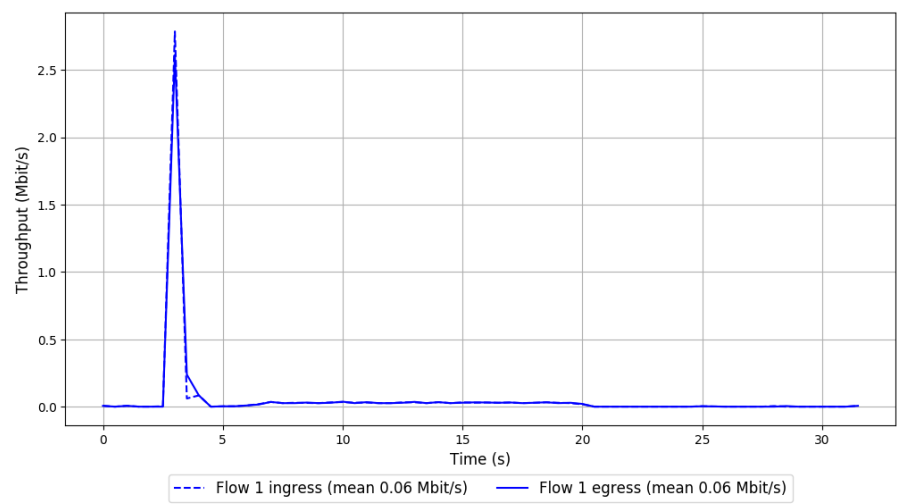
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.508 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-03 08:16:52

End at: 2018-04-03 08:17:22

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.461 ms

Loss rate: 0.00%

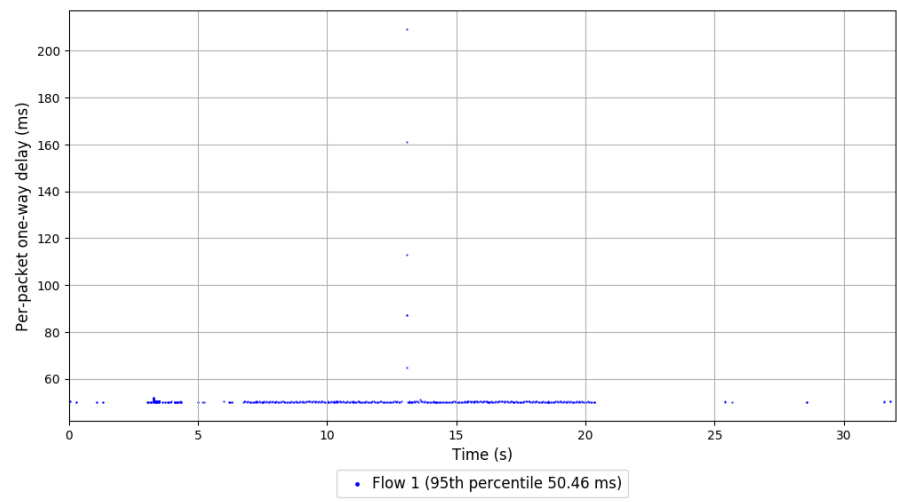
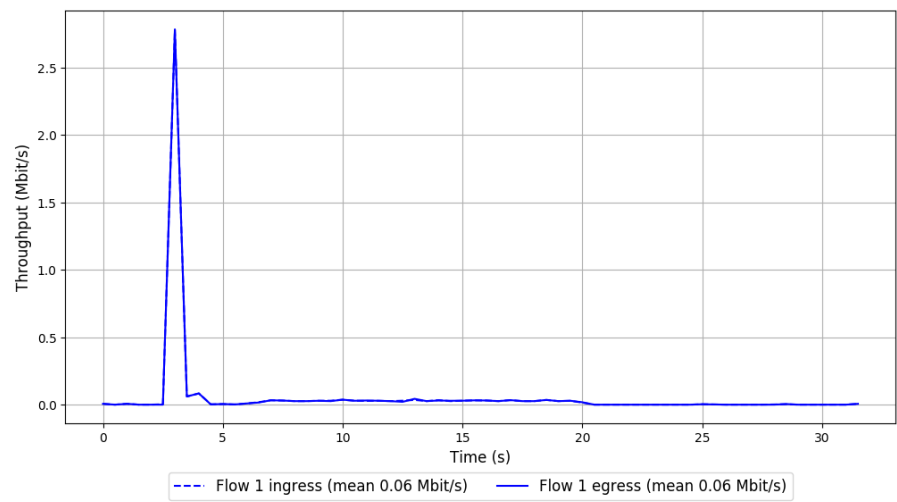
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.461 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-03 08:31:08

End at: 2018-04-03 08:31:38

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.264 ms

Loss rate: 0.00%

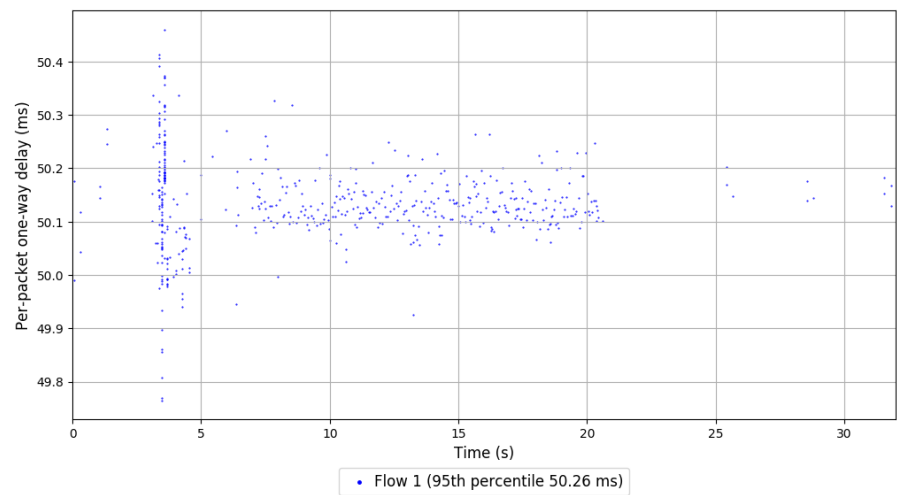
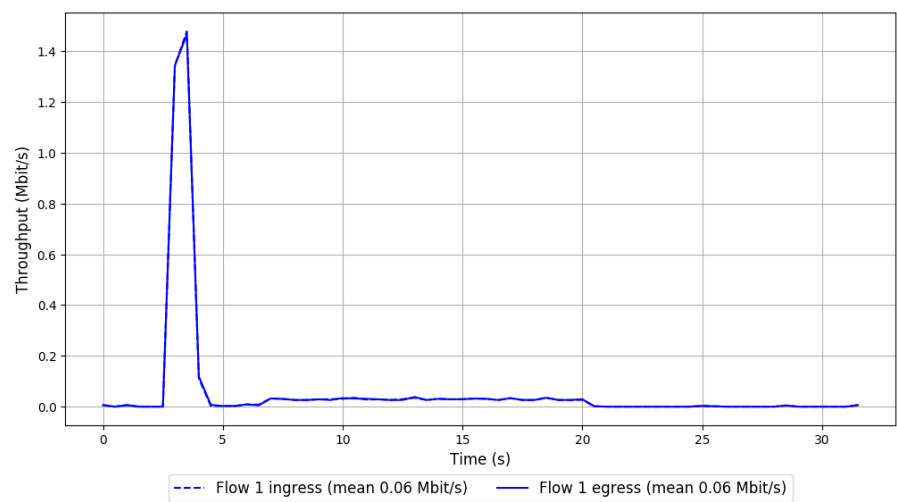
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.264 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-03 08:45:44

End at: 2018-04-03 08:46:14

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.886 ms

Loss rate: 0.00%

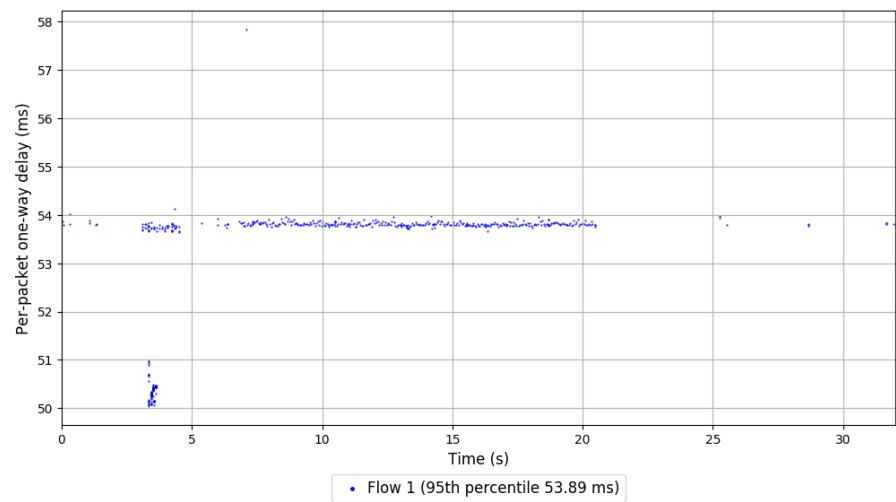
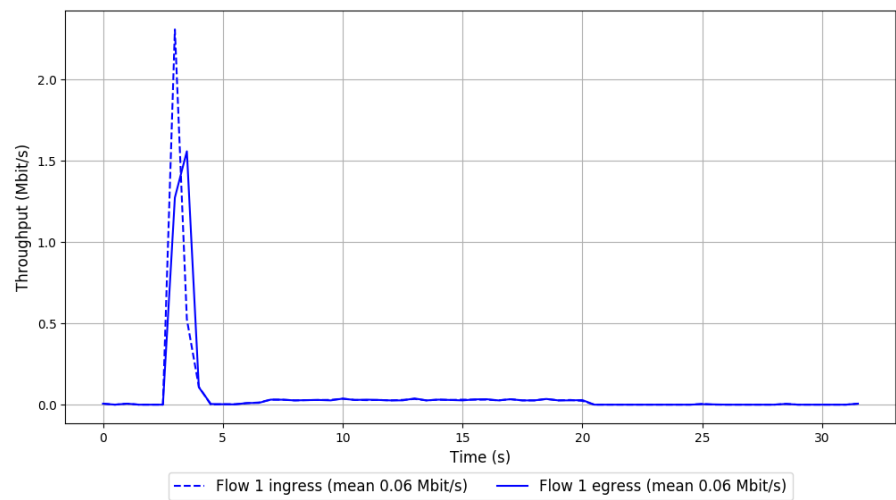
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.886 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-03 09:00:36

End at: 2018-04-03 09:01:06

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.437 ms

Loss rate: 0.00%

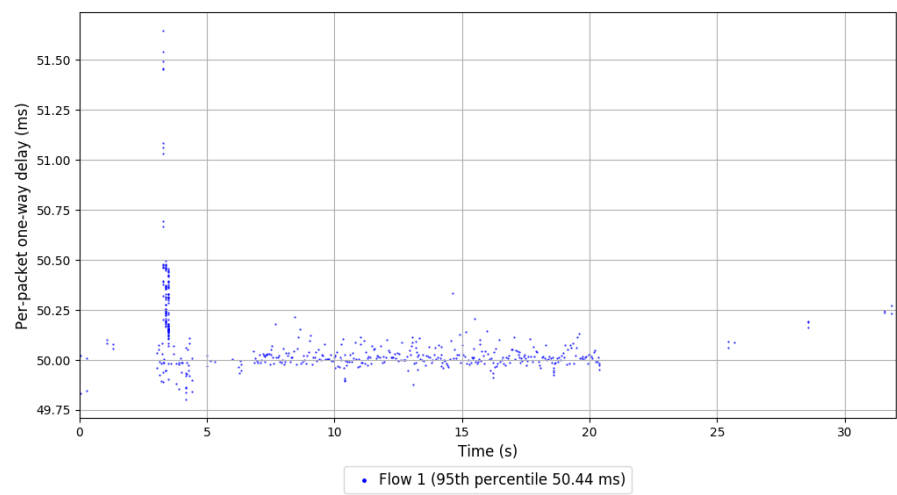
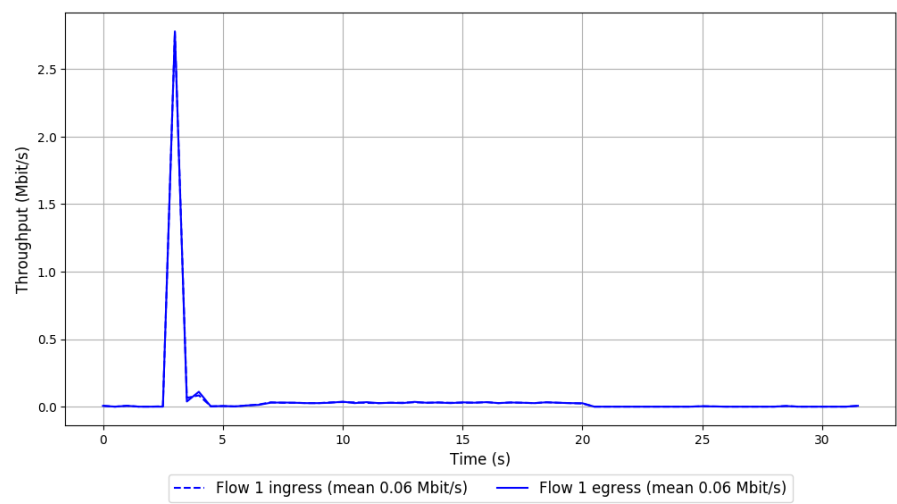
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.437 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-03 09:15:02

End at: 2018-04-03 09:15:32

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.00%

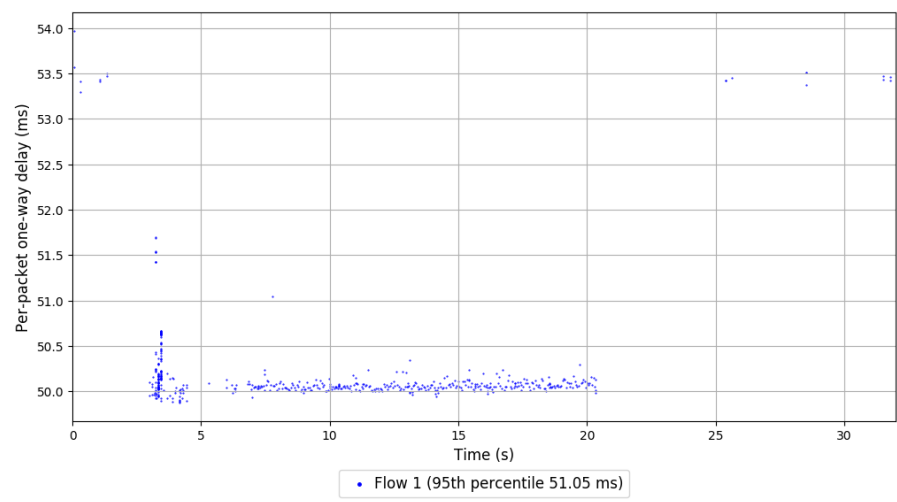
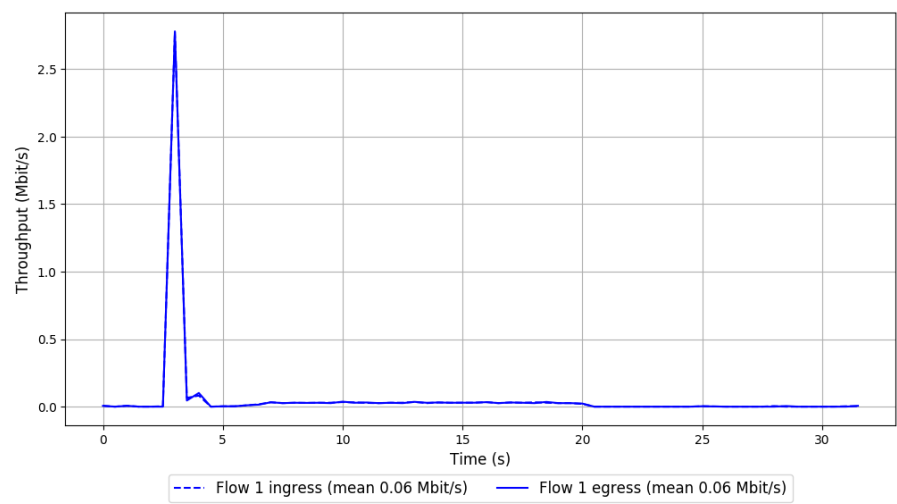
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.045 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-03 09:29:40

End at: 2018-04-03 09:30:10

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.527 ms

Loss rate: 0.00%

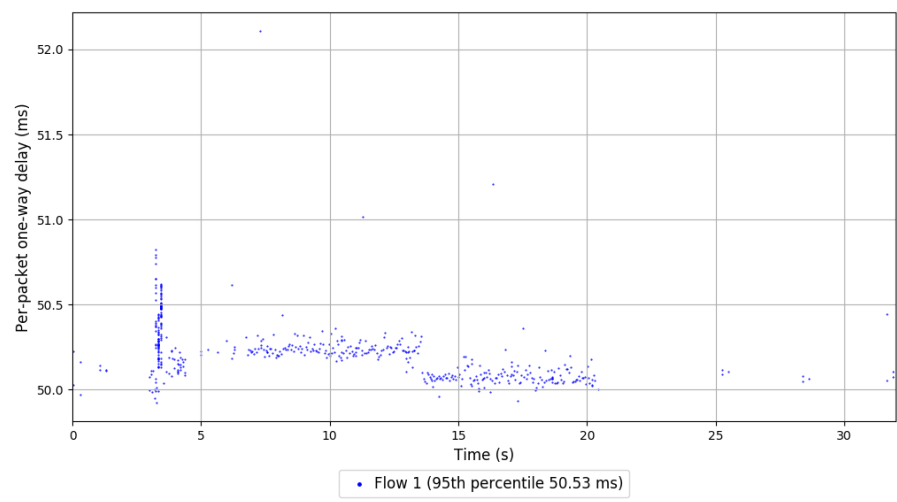
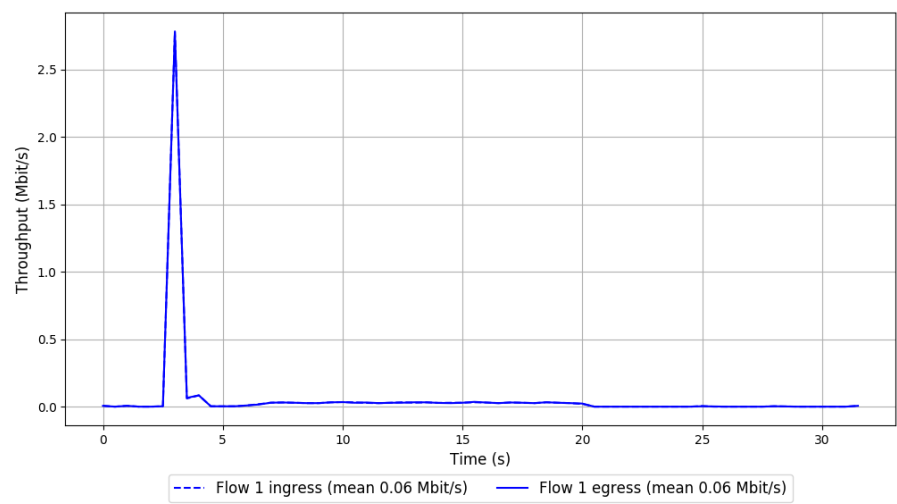
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.527 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-03 07:27:03

End at: 2018-04-03 07:27:33

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.100 ms

Loss rate: 0.04%

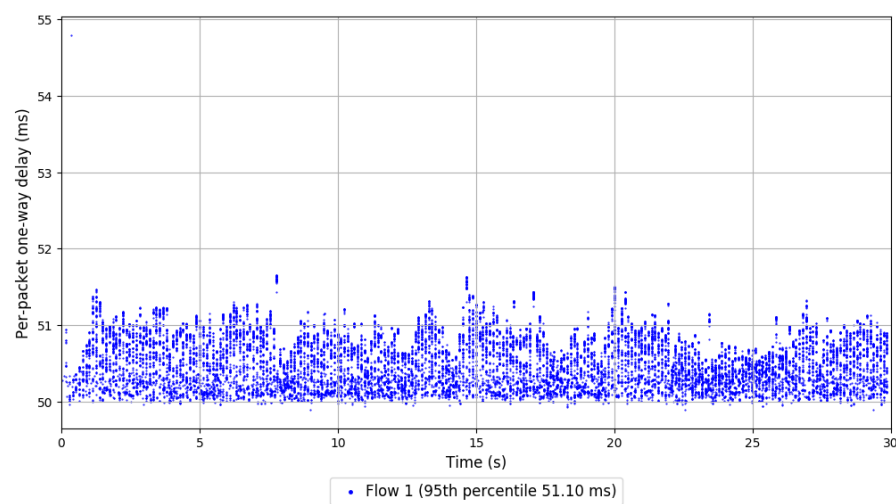
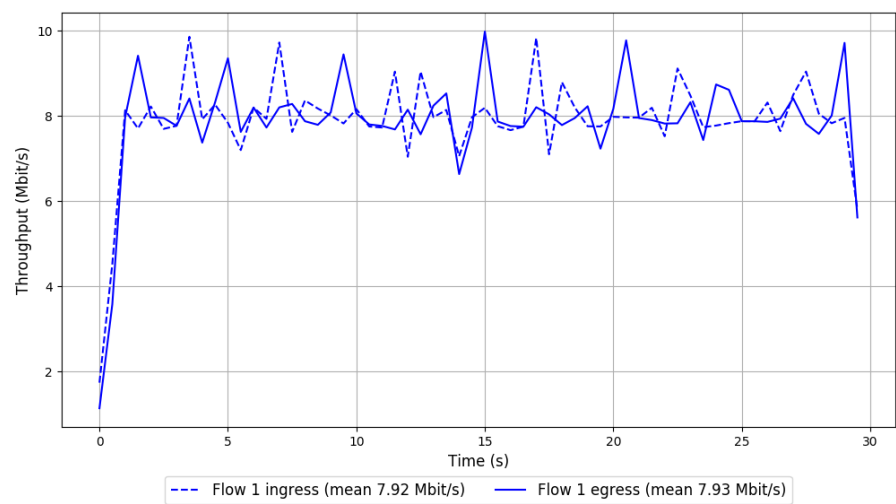
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 51.100 ms

Loss rate: 0.04%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-03 07:41:18

End at: 2018-04-03 07:41:48

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.139 ms

Loss rate: 0.45%

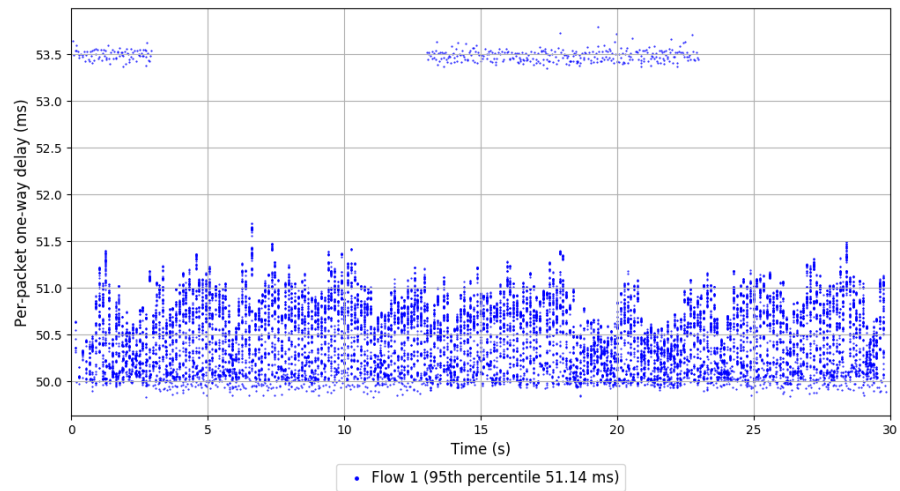
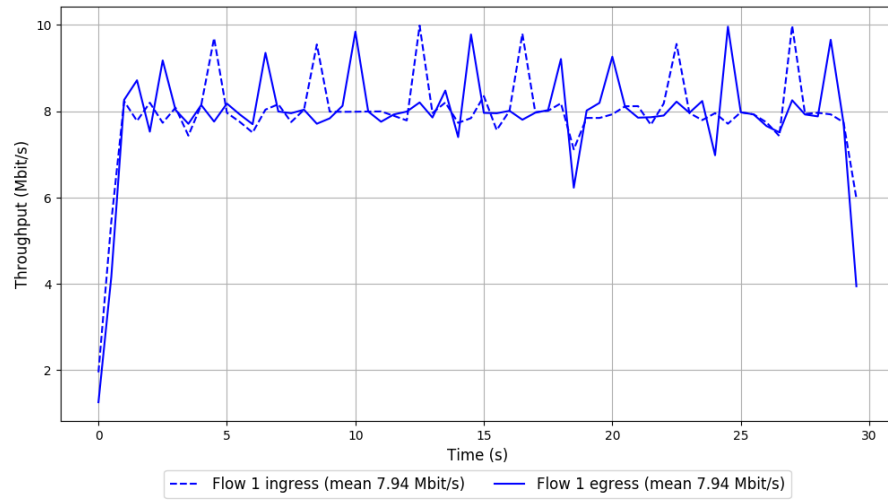
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.139 ms

Loss rate: 0.45%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-03 07:55:36

End at: 2018-04-03 07:56:06

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.096 ms

Loss rate: 0.42%

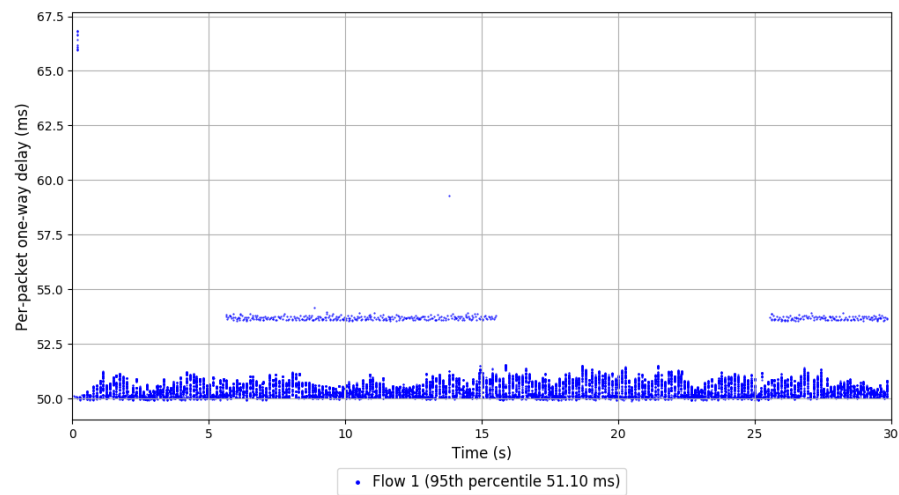
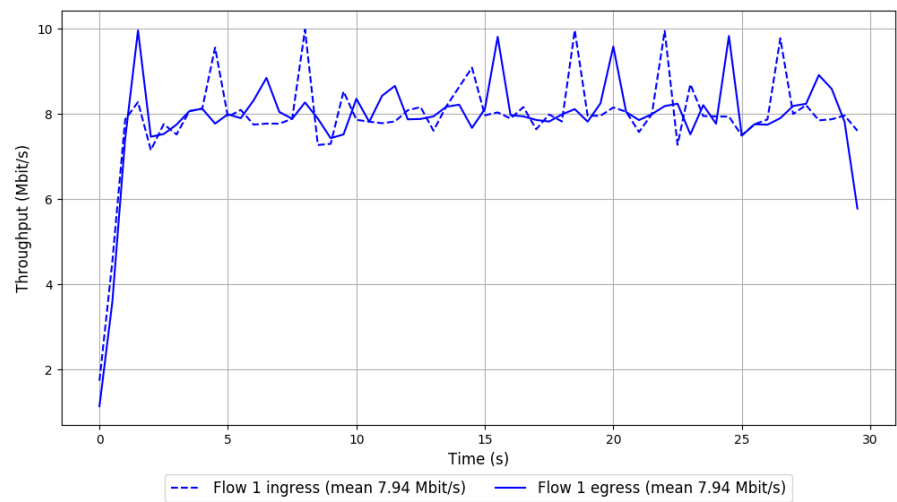
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.096 ms

Loss rate: 0.42%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-03 08:09:38

End at: 2018-04-03 08:10:08

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.279 ms

Loss rate: 0.36%

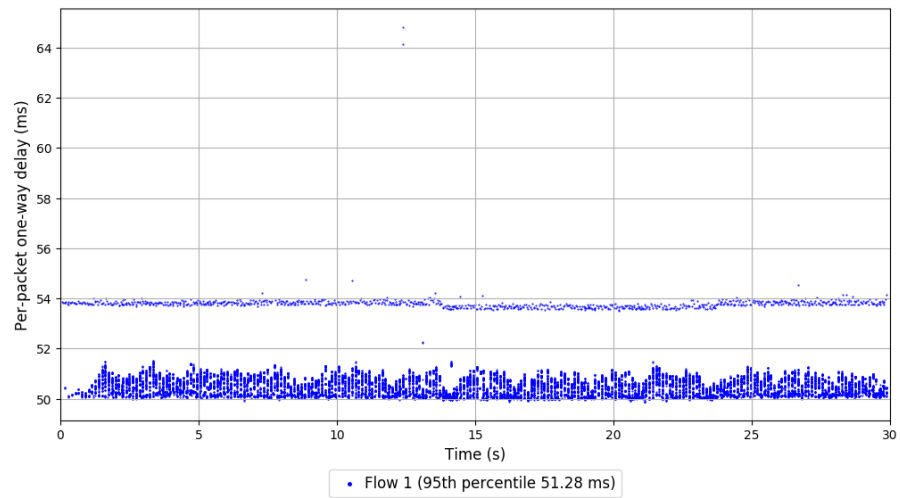
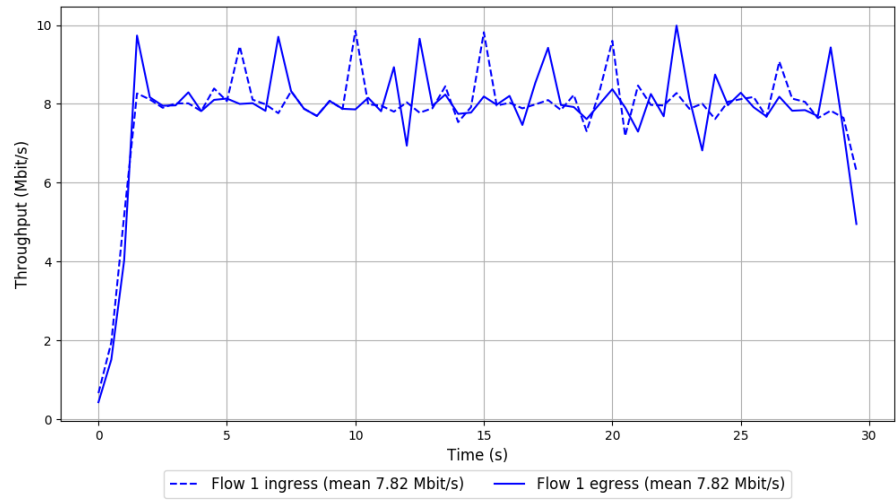
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.279 ms

Loss rate: 0.36%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-03 08:23:59

End at: 2018-04-03 08:24:29

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.530 ms

Loss rate: 0.45%

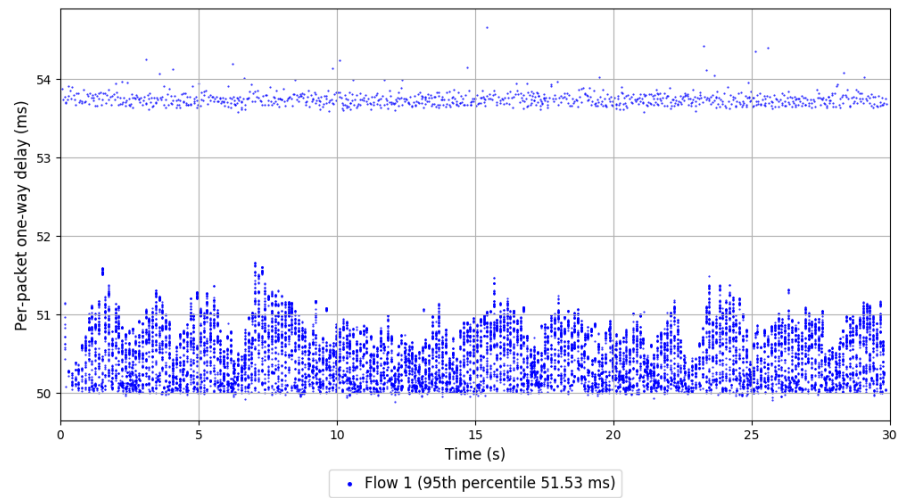
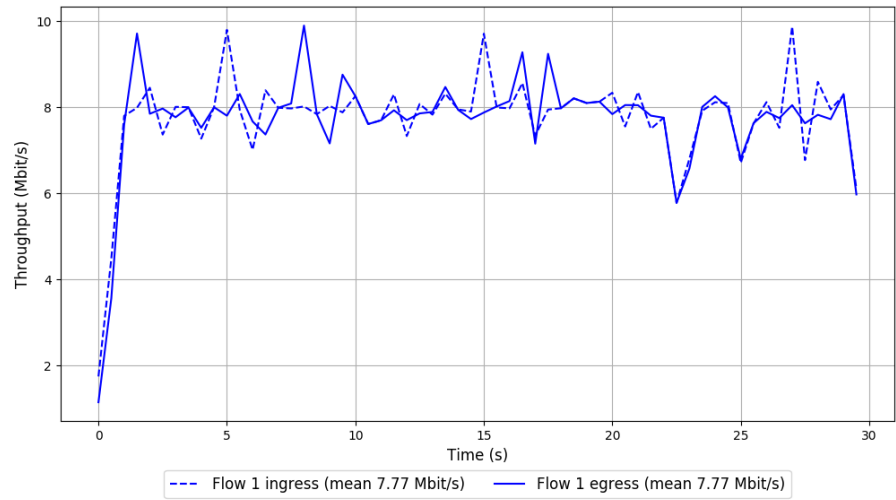
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 51.530 ms

Loss rate: 0.45%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-03 08:38:31

End at: 2018-04-03 08:39:01

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.292 ms

Loss rate: 0.44%

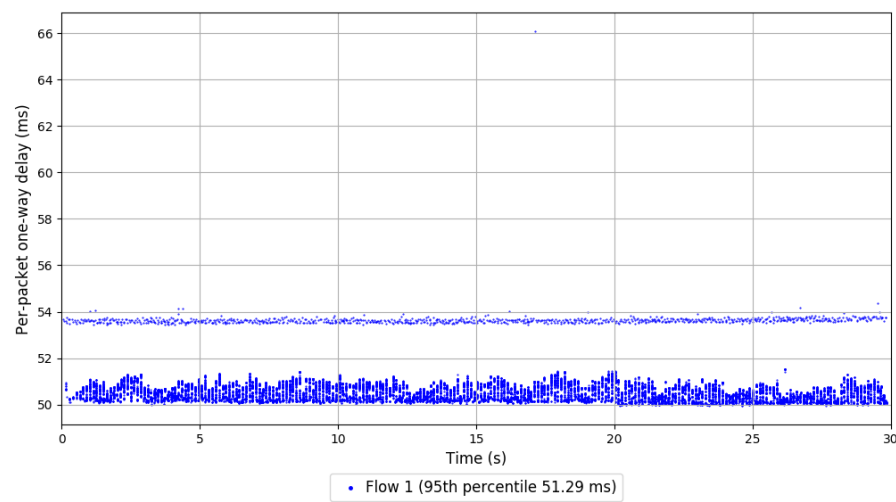
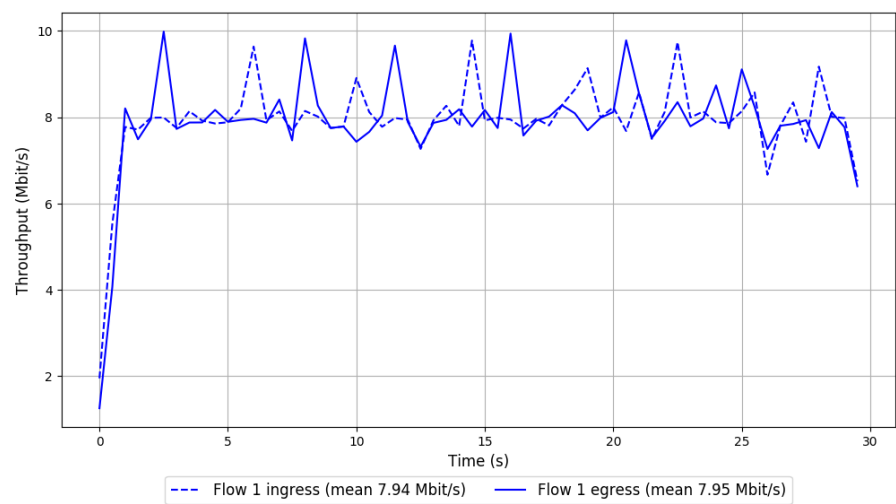
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.292 ms

Loss rate: 0.44%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-03 08:53:07

End at: 2018-04-03 08:53:37

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 51.798 ms

Loss rate: 0.43%

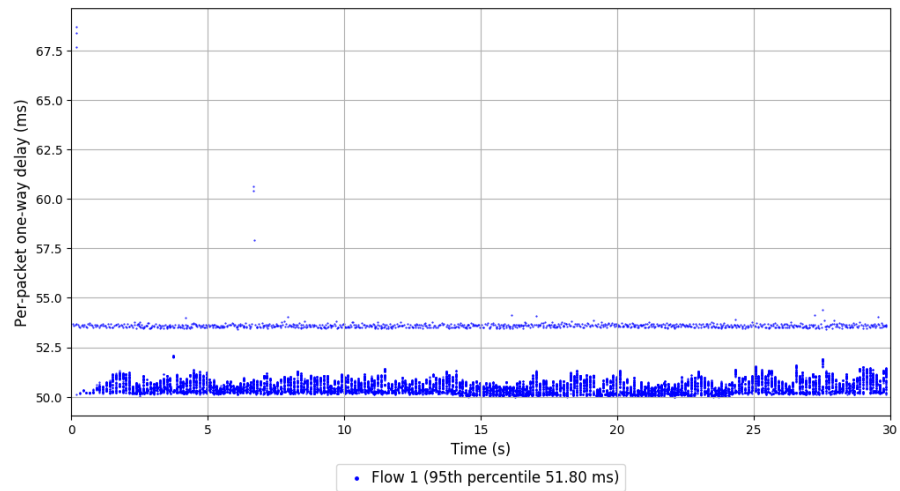
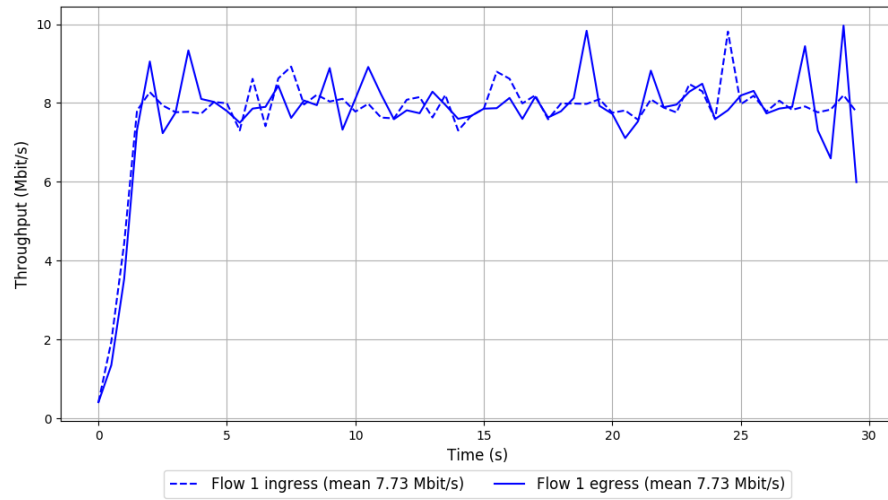
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 51.798 ms

Loss rate: 0.43%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-03 09:07:42

End at: 2018-04-03 09:08:12

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.316 ms

Loss rate: 0.42%

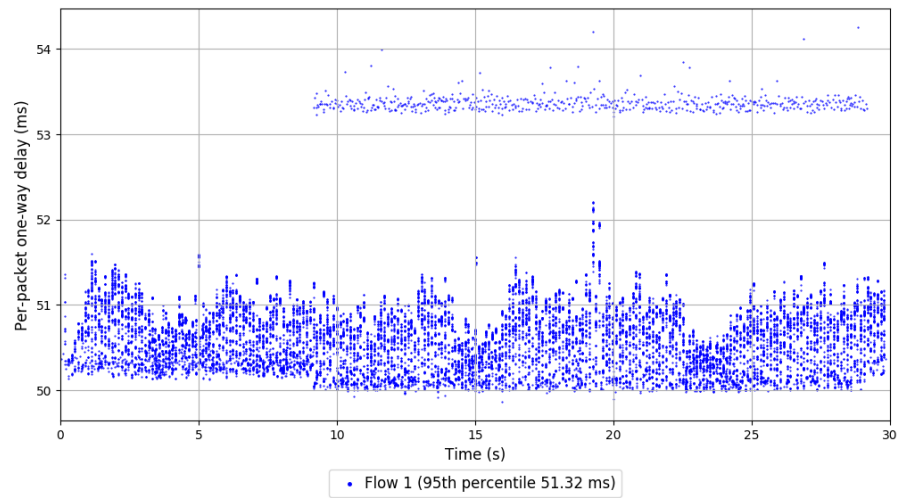
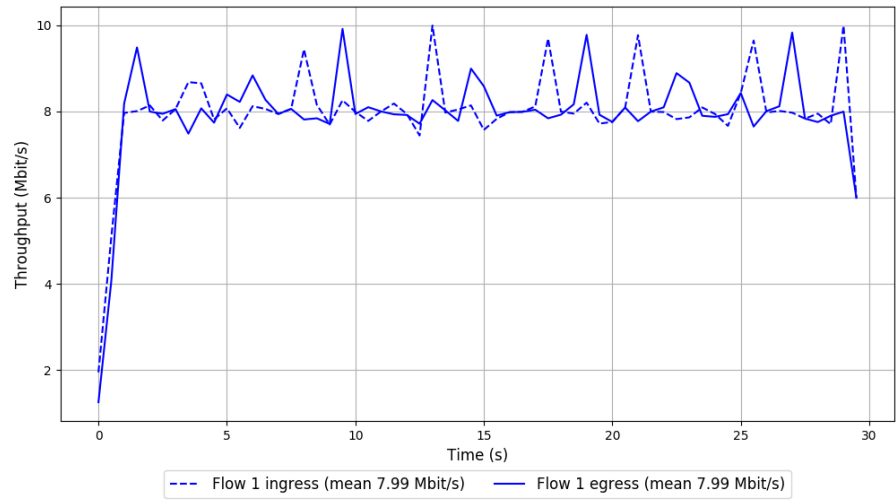
-- Flow 1:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 51.316 ms

Loss rate: 0.42%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-03 09:22:08

End at: 2018-04-03 09:22:38

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.288 ms

Loss rate: 0.40%

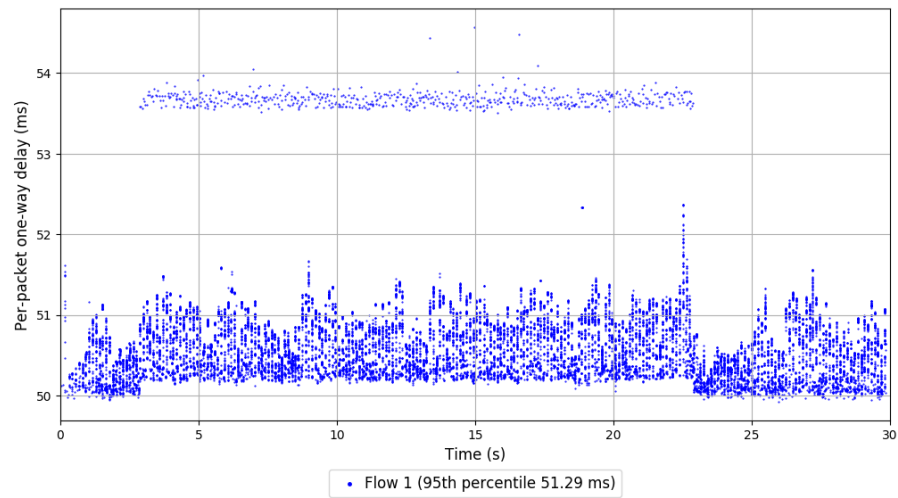
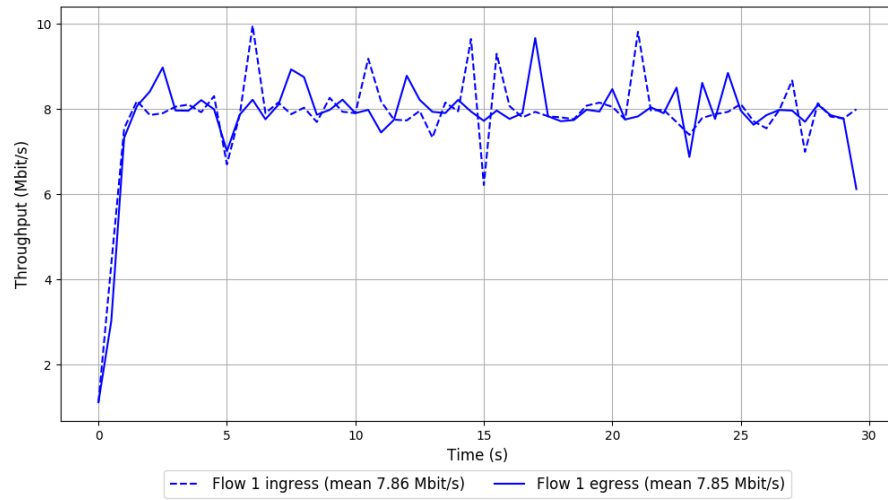
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 51.288 ms

Loss rate: 0.40%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-03 09:36:48

End at: 2018-04-03 09:37:18

Below is generated by plot.py at 2018-04-03 12:49:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.386 ms

Loss rate: 0.00%

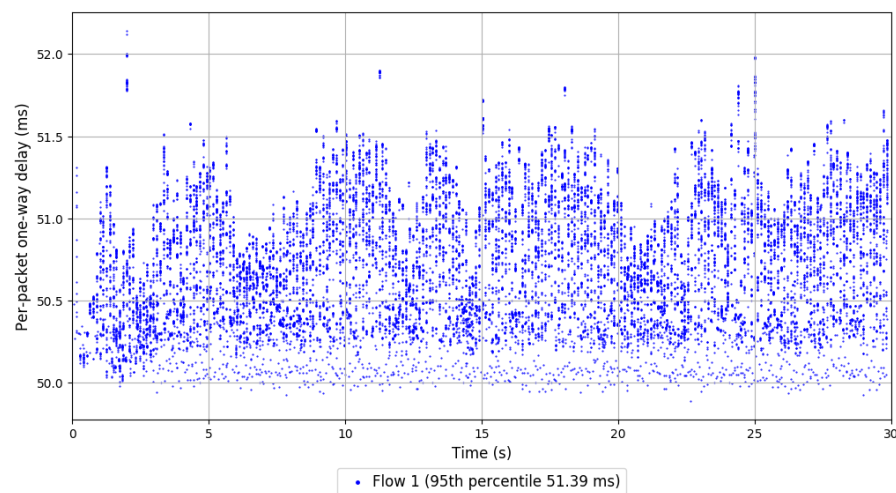
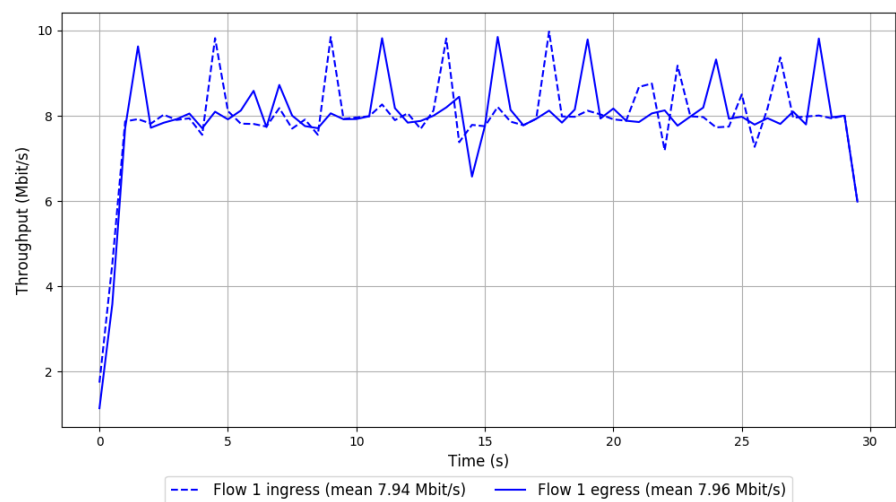
-- Flow 1:

Average throughput: 7.96 Mbit/s

95th percentile per-packet one-way delay: 51.386 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

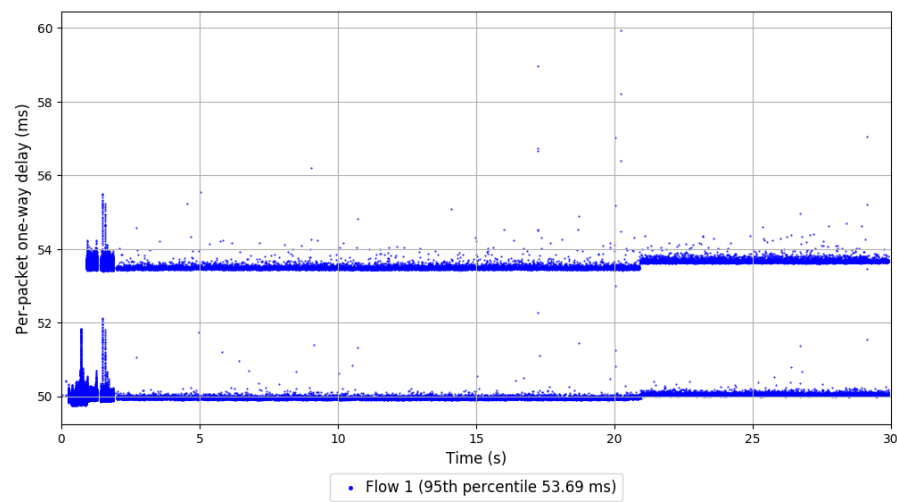
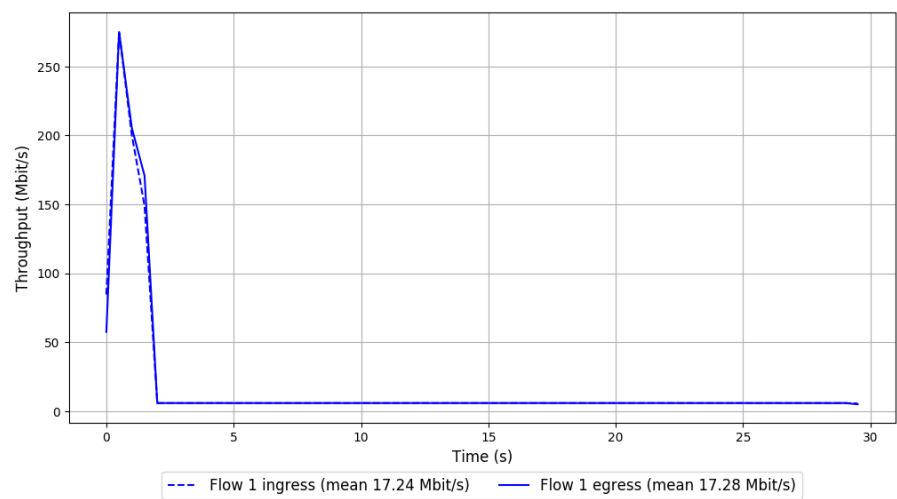


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-03 07:25:00
End at: 2018-04-03 07:25:30

# Below is generated by plot.py at 2018-04-03 12:49:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.28 Mbit/s
95th percentile per-packet one-way delay: 53.686 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 17.28 Mbit/s
95th percentile per-packet one-way delay: 53.686 ms
Loss rate: 0.12%
```

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

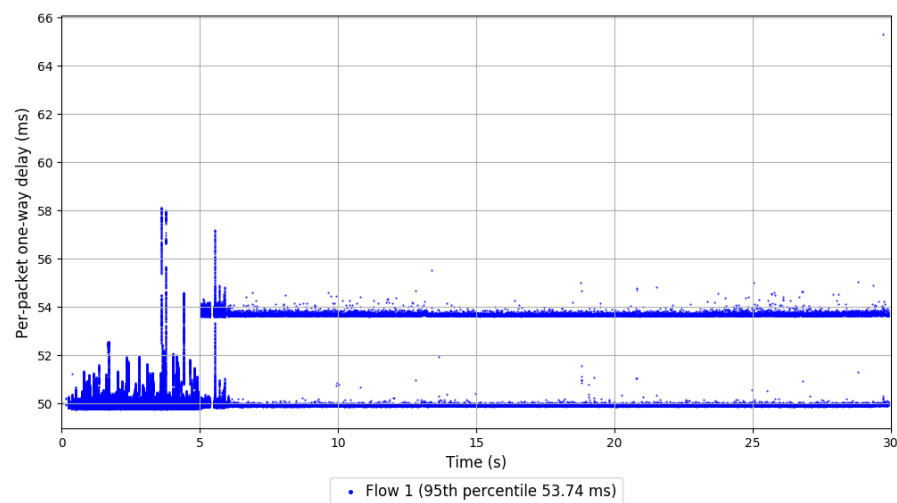
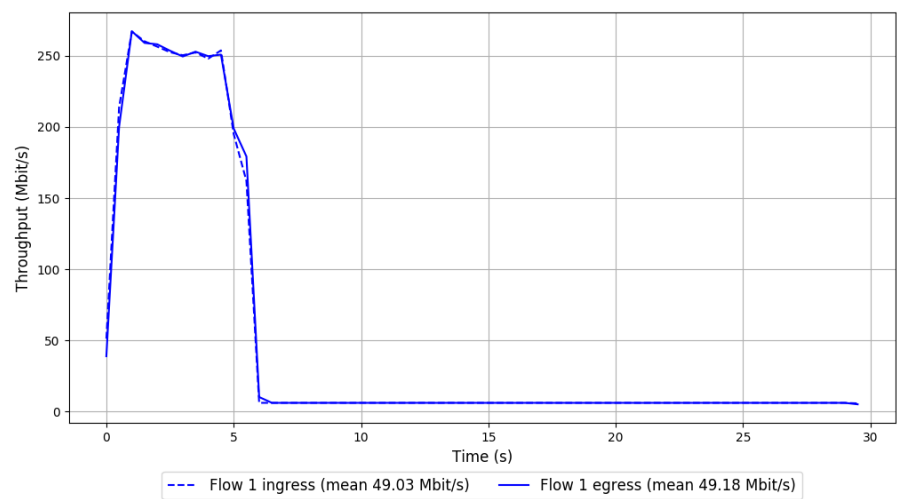


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-03 07:39:16
End at: 2018-04-03 07:39:46

# Below is generated by plot.py at 2018-04-03 12:49:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.18 Mbit/s
95th percentile per-packet one-way delay: 53.739 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 49.18 Mbit/s
95th percentile per-packet one-way delay: 53.739 ms
Loss rate: 0.04%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-03 07:53:31

End at: 2018-04-03 07:54:01

Below is generated by plot.py at 2018-04-03 12:49:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 53.399 ms

Loss rate: 0.21%

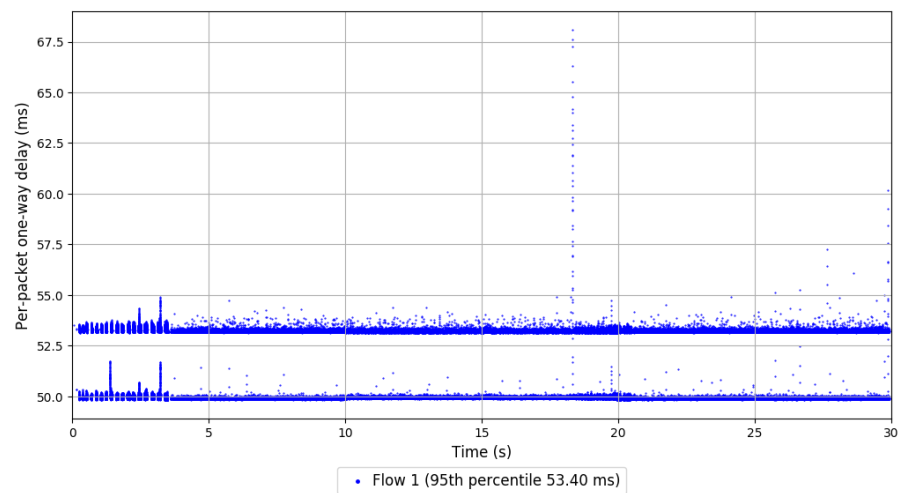
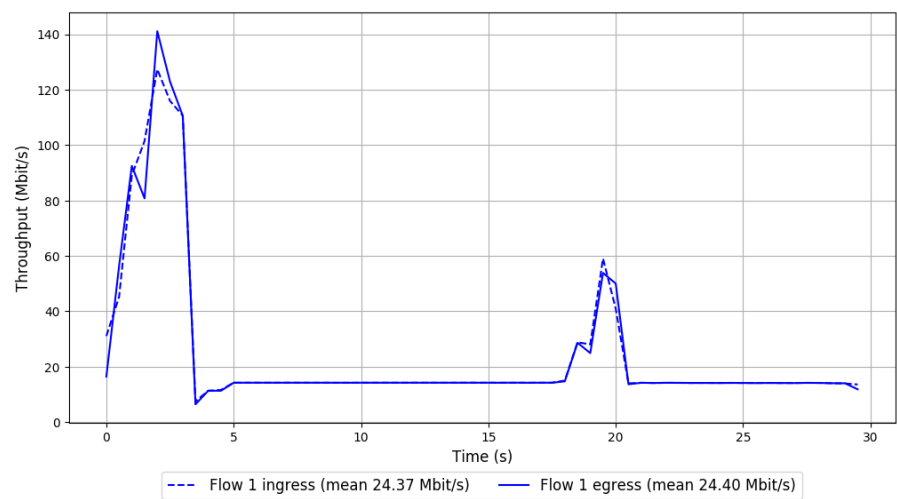
-- Flow 1:

Average throughput: 24.40 Mbit/s

95th percentile per-packet one-way delay: 53.399 ms

Loss rate: 0.21%

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

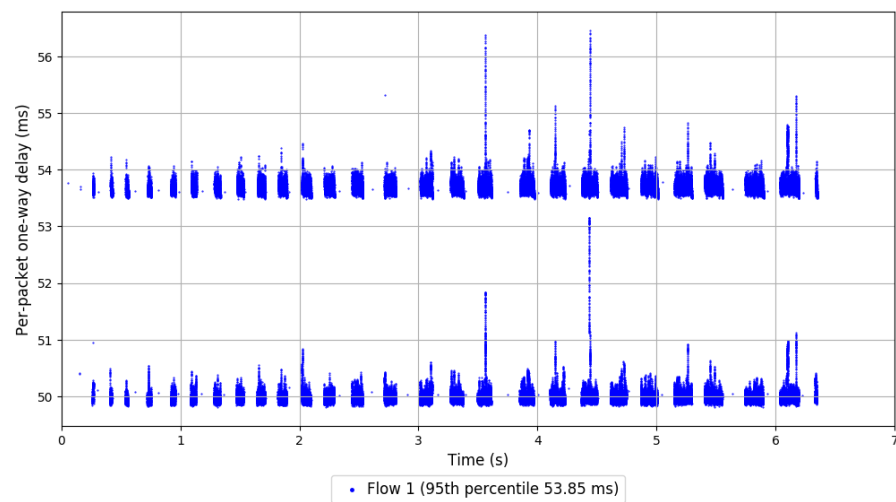
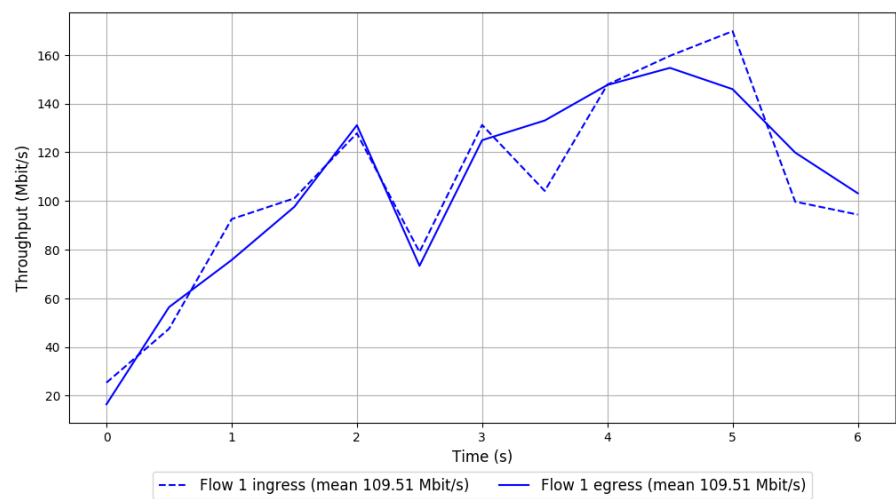


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-03 08:07:38

End at: 2018-04-03 08:08:08

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-03 08:21:53

End at: 2018-04-03 08:22:23

Below is generated by plot.py at 2018-04-03 12:49:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.07 Mbit/s

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

Loss rate: 0.06%

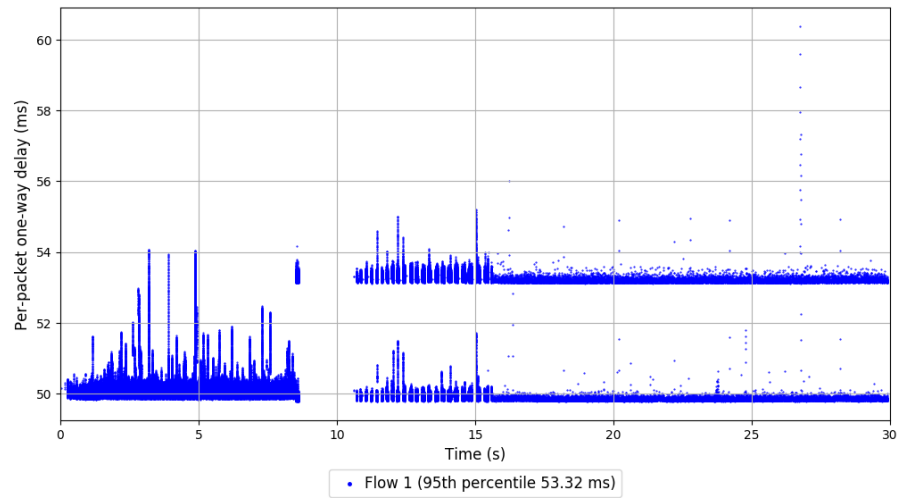
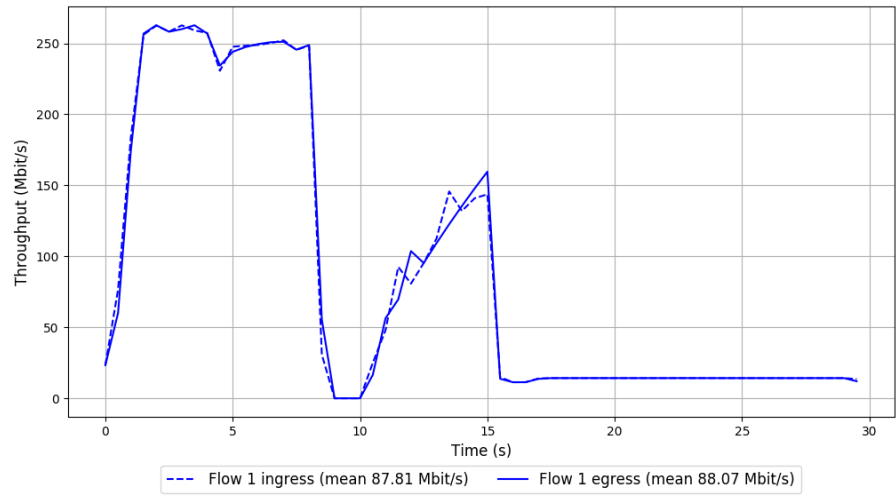
-- Flow 1:

Average throughput: 88.07 Mbit/s

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

Loss rate: 0.06%

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

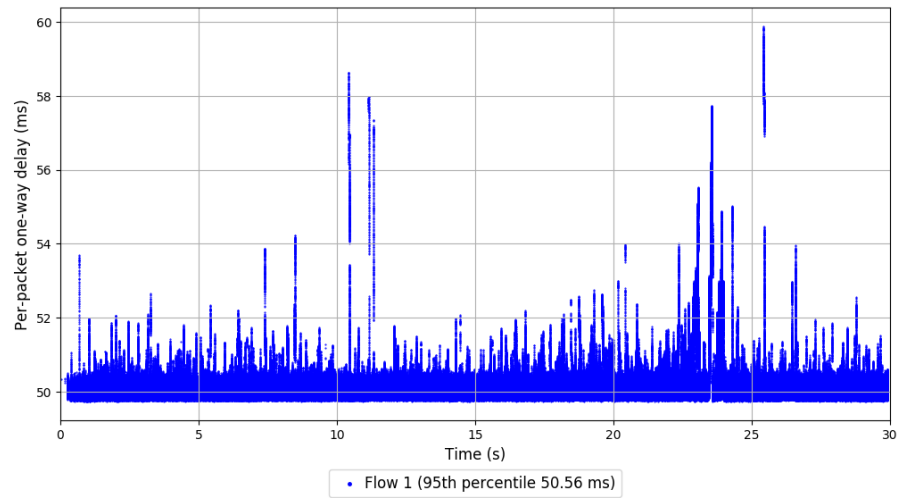
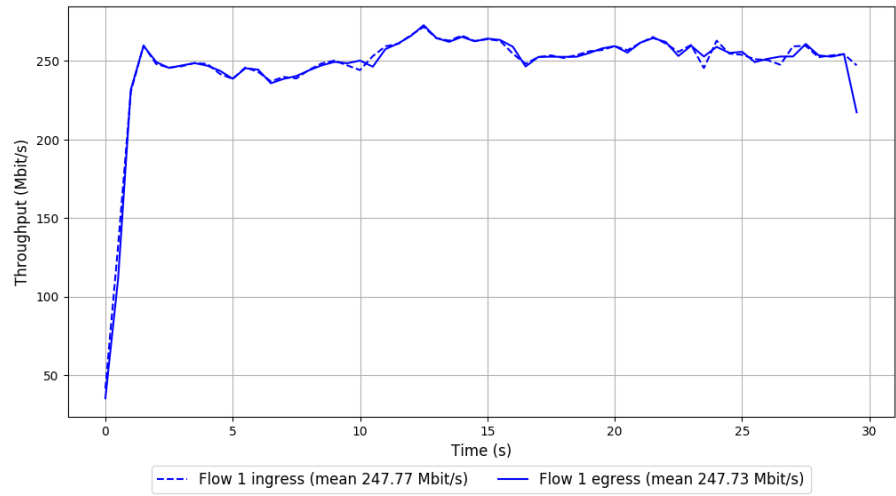


```
Run 6: Statistics of TaoVA-100x

Start at: 2018-04-03 08:36:09
End at: 2018-04-03 08:36:39

# Below is generated by plot.py at 2018-04-03 12:53:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 247.73 Mbit/s
95th percentile per-packet one-way delay: 50.563 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 247.73 Mbit/s
95th percentile per-packet one-way delay: 50.563 ms
Loss rate: 0.36%
```

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-03 08:50:47

End at: 2018-04-03 08:51:17

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.45 Mbit/s

95th percentile per-packet one-way delay: 50.697 ms

Loss rate: 0.45%

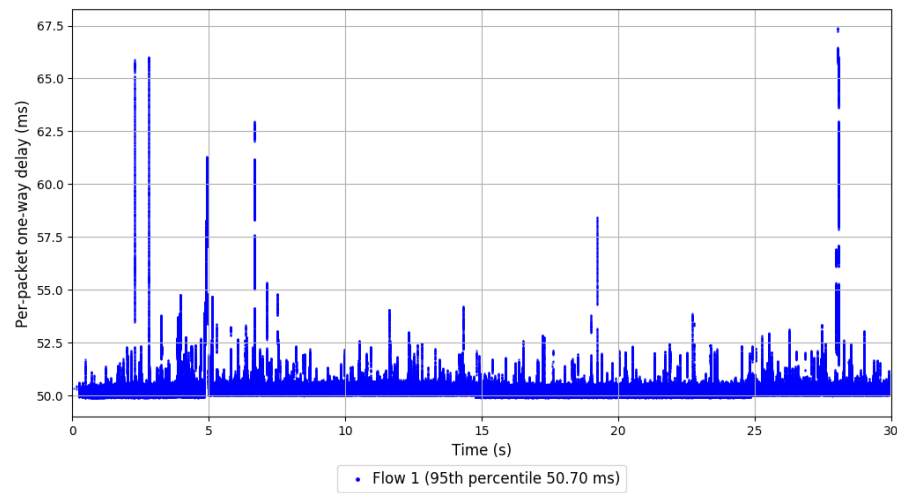
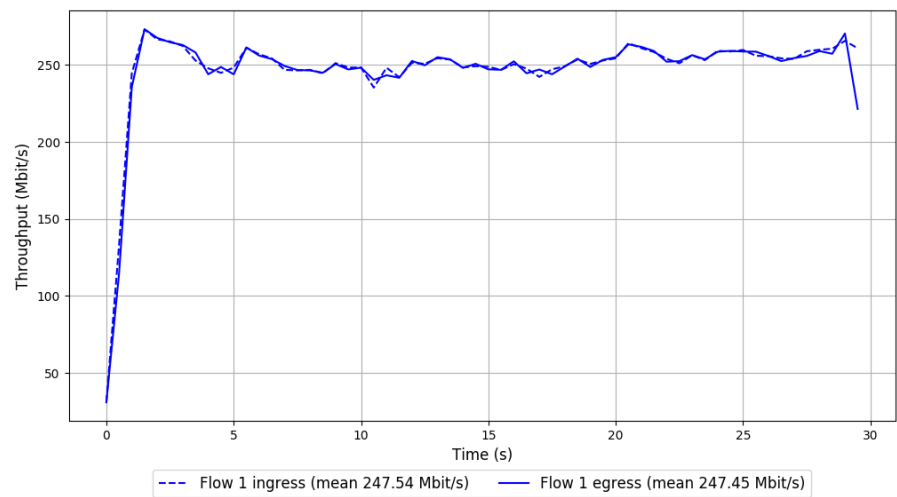
-- Flow 1:

Average throughput: 247.45 Mbit/s

95th percentile per-packet one-way delay: 50.697 ms

Loss rate: 0.45%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-03 09:05:40

End at: 2018-04-03 09:06:10

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.27%

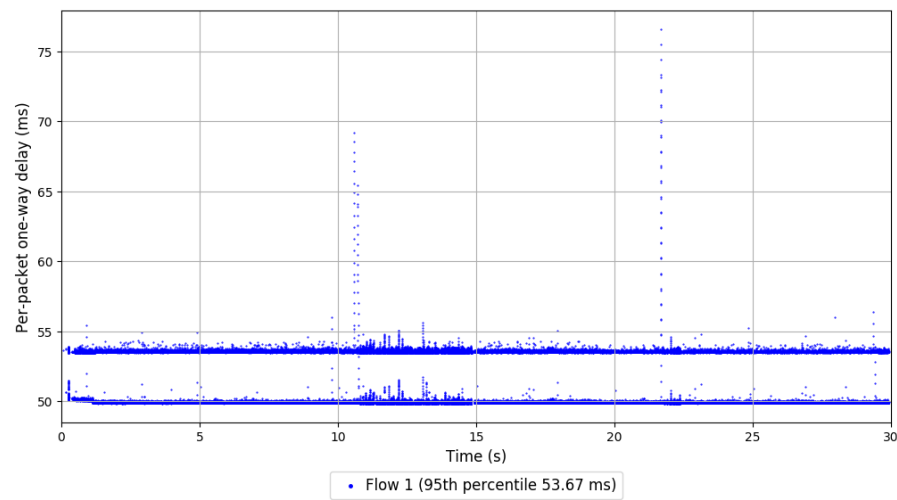
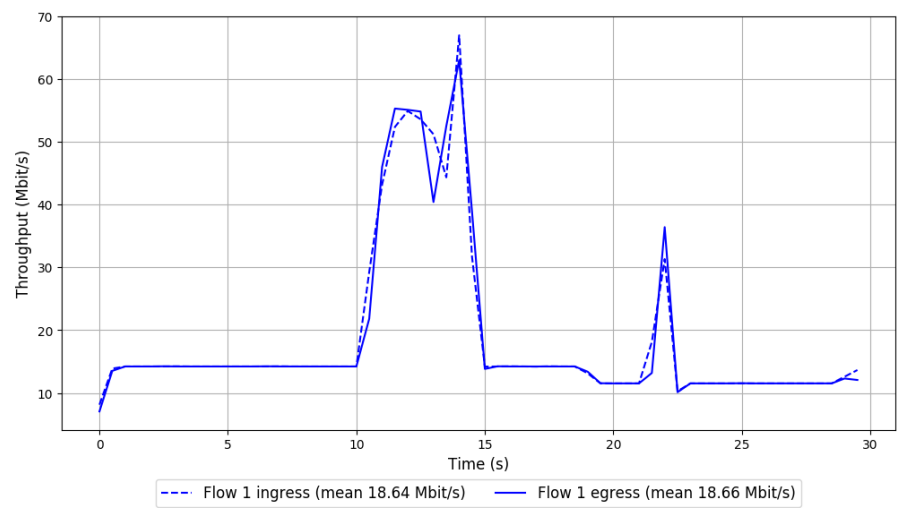
-- Flow 1:

Average throughput: 18.66 Mbit/s

95th percentile per-packet one-way delay: 53.670 ms

Loss rate: 0.27%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-03 09:20:05

End at: 2018-04-03 09:20:35

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 54.000 ms

Loss rate: 0.15%

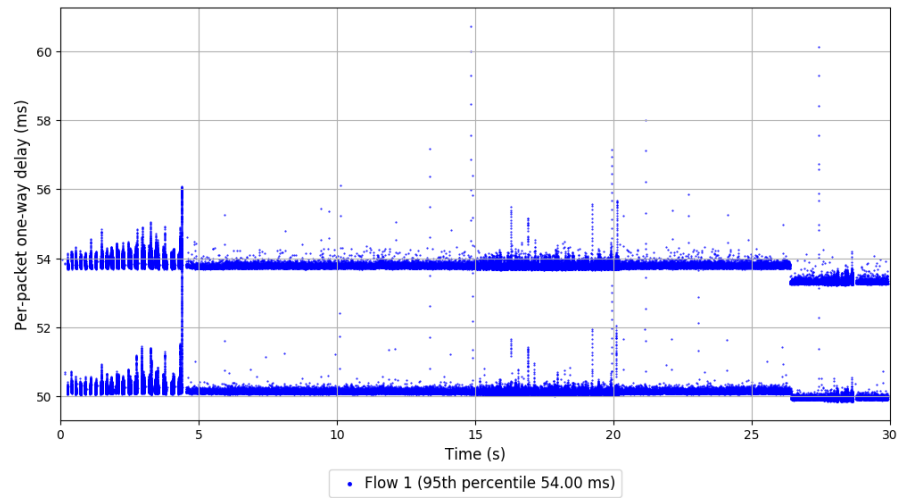
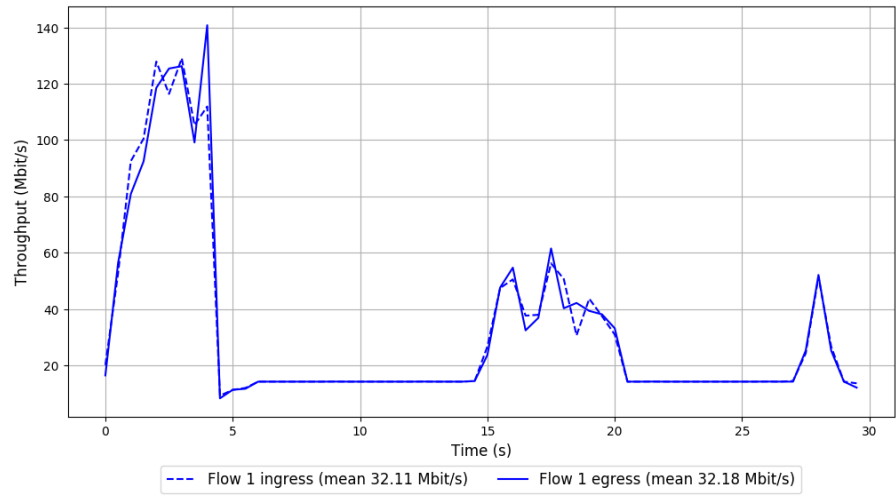
-- Flow 1:

Average throughput: 32.18 Mbit/s

95th percentile per-packet one-way delay: 54.000 ms

Loss rate: 0.15%

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

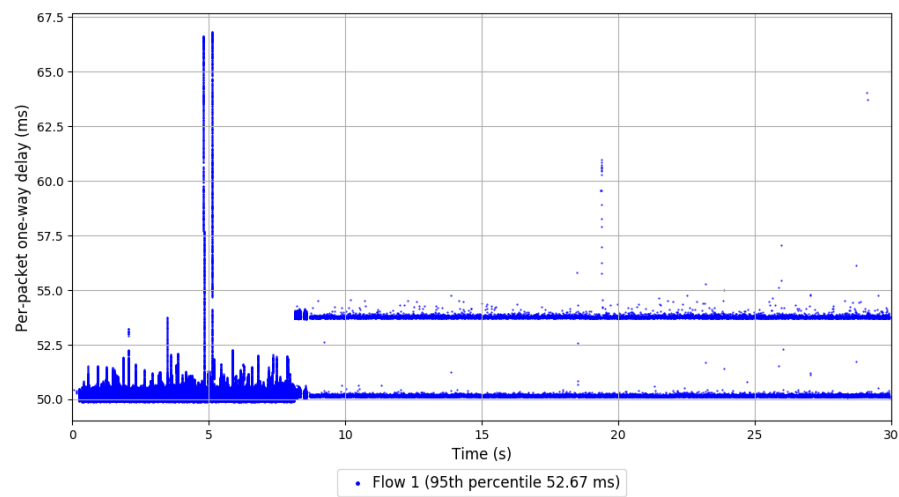
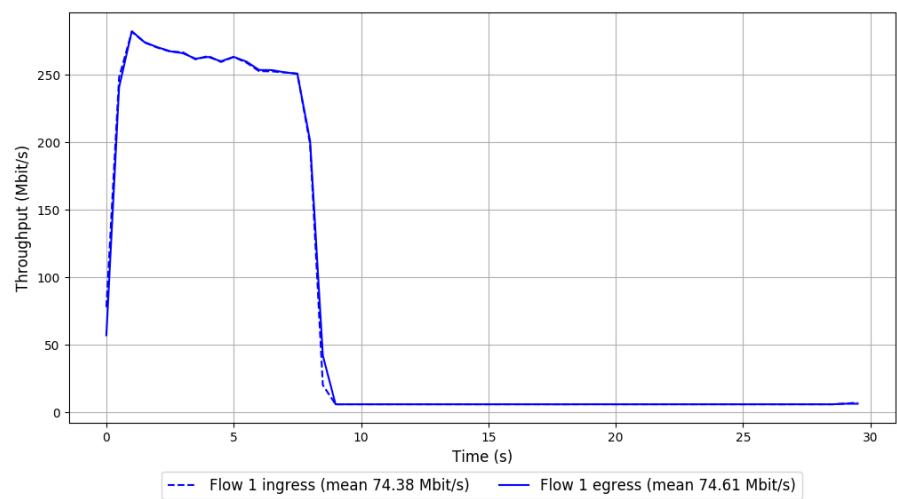


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-03 09:34:43
End at: 2018-04-03 09:35:13

# Below is generated by plot.py at 2018-04-03 12:53:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 52.668 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 52.668 ms
Loss rate: 0.03%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-03 07:25:39

End at: 2018-04-03 07:26:09

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.05 Mbit/s

95th percentile per-packet one-way delay: 51.301 ms

Loss rate: 0.36%

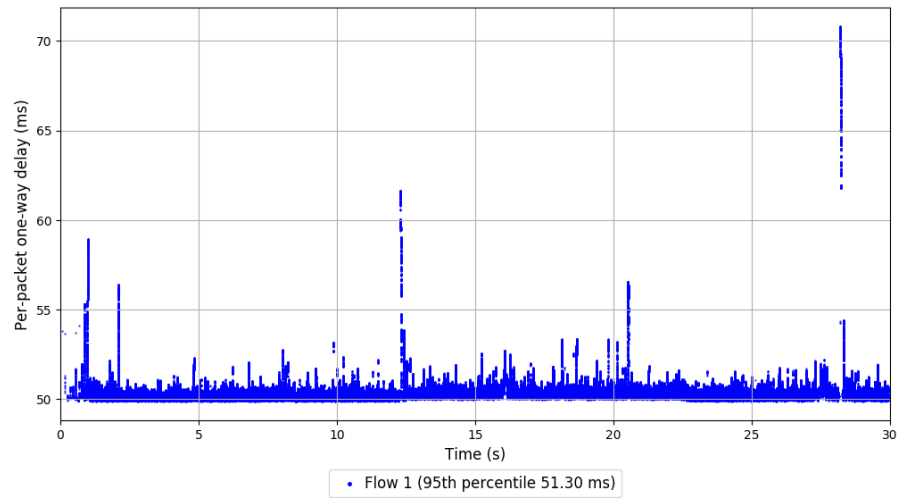
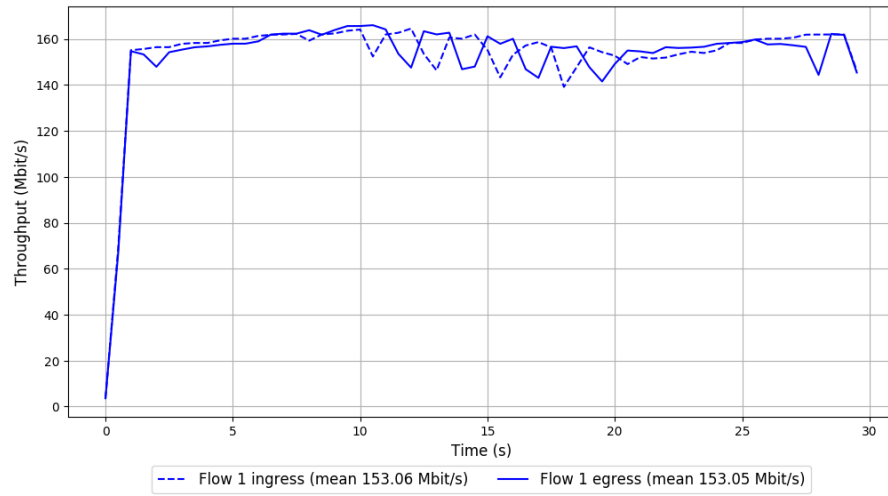
-- Flow 1:

Average throughput: 153.05 Mbit/s

95th percentile per-packet one-way delay: 51.301 ms

Loss rate: 0.36%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-03 07:39:57

End at: 2018-04-03 07:40:27

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.77 Mbit/s

95th percentile per-packet one-way delay: 51.664 ms

Loss rate: 0.38%

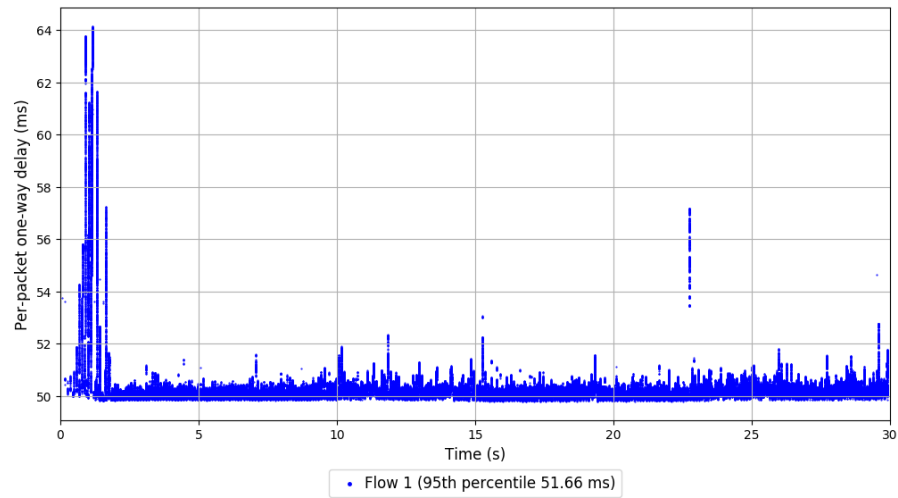
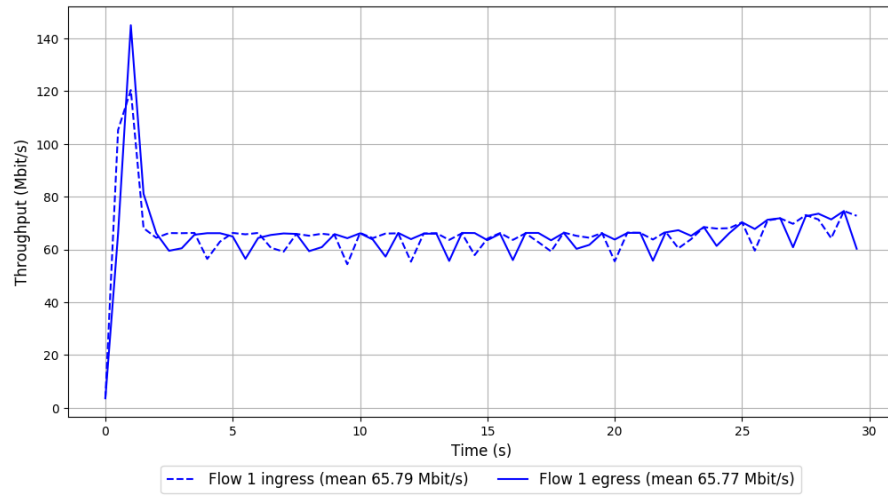
-- Flow 1:

Average throughput: 65.77 Mbit/s

95th percentile per-packet one-way delay: 51.664 ms

Loss rate: 0.38%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-03 07:54:10

End at: 2018-04-03 07:54:40

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.03 Mbit/s

95th percentile per-packet one-way delay: 50.803 ms

Loss rate: 0.39%

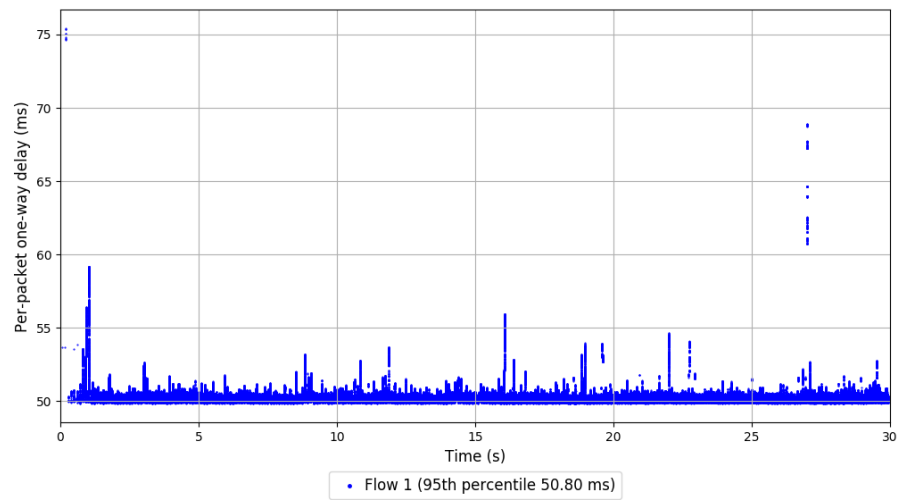
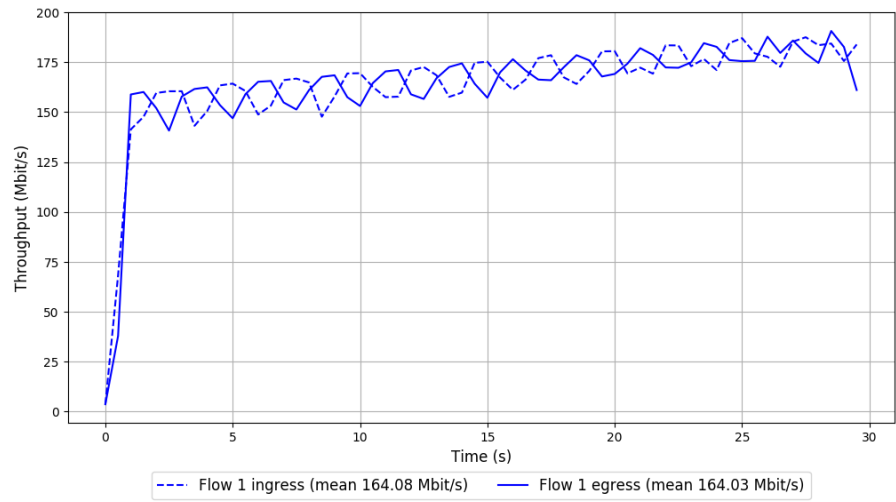
-- Flow 1:

Average throughput: 164.03 Mbit/s

95th percentile per-packet one-way delay: 50.803 ms

Loss rate: 0.39%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-03 08:08:16

End at: 2018-04-03 08:08:46

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 57.074 ms

Loss rate: 0.34%

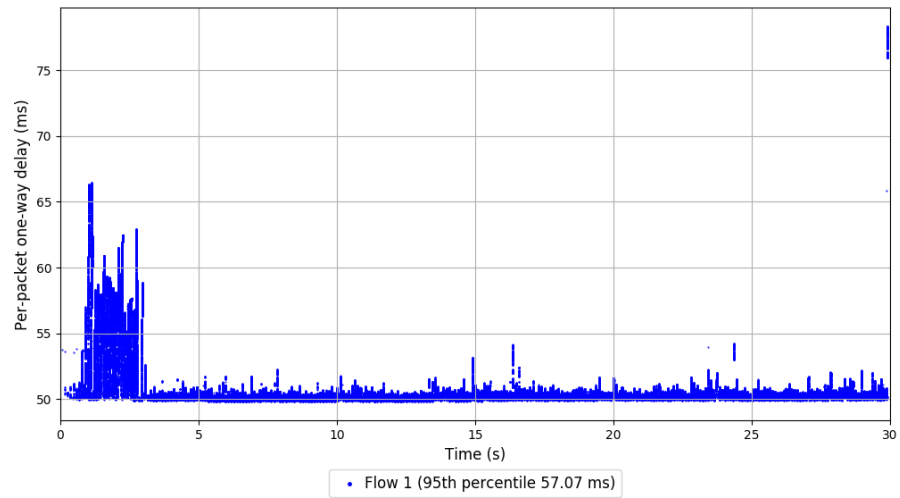
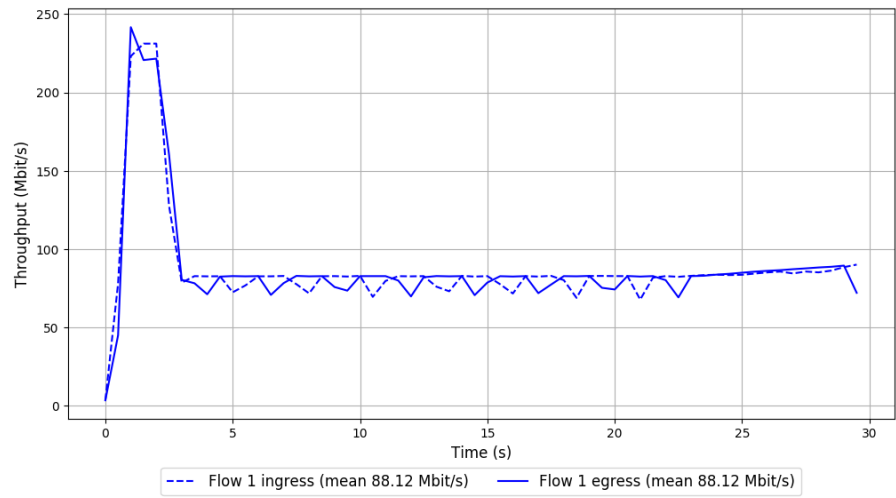
-- Flow 1:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 57.074 ms

Loss rate: 0.34%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-03 08:22:37

End at: 2018-04-03 08:23:07

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.12 Mbit/s

95th percentile per-packet one-way delay: 51.278 ms

Loss rate: 0.39%

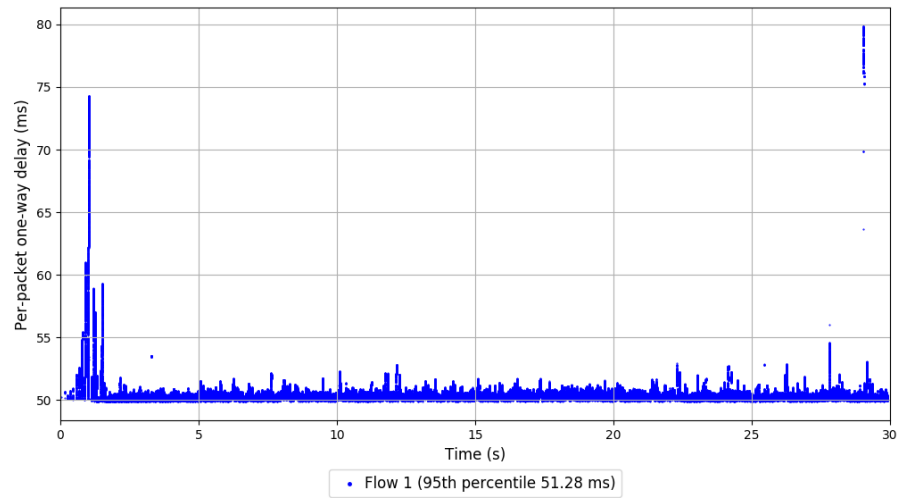
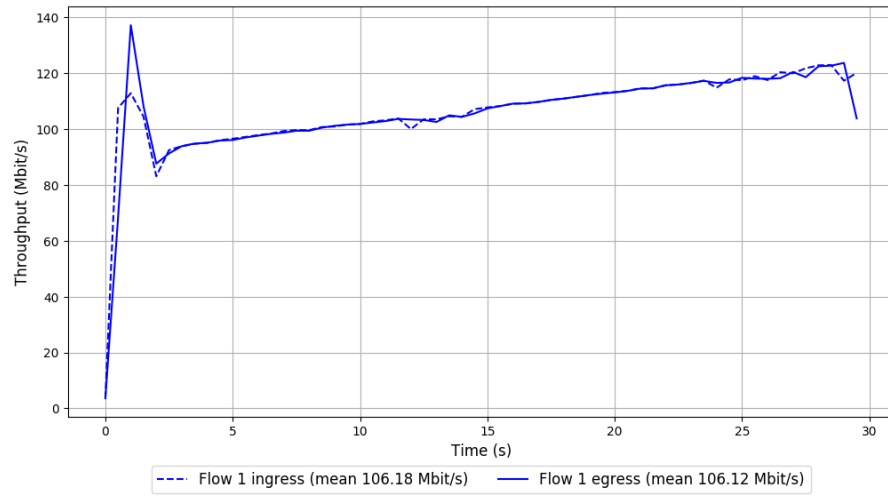
-- Flow 1:

Average throughput: 106.12 Mbit/s

95th percentile per-packet one-way delay: 51.278 ms

Loss rate: 0.39%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-03 08:37:07

End at: 2018-04-03 08:37:37

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.82 Mbit/s

95th percentile per-packet one-way delay: 51.357 ms

Loss rate: 0.36%

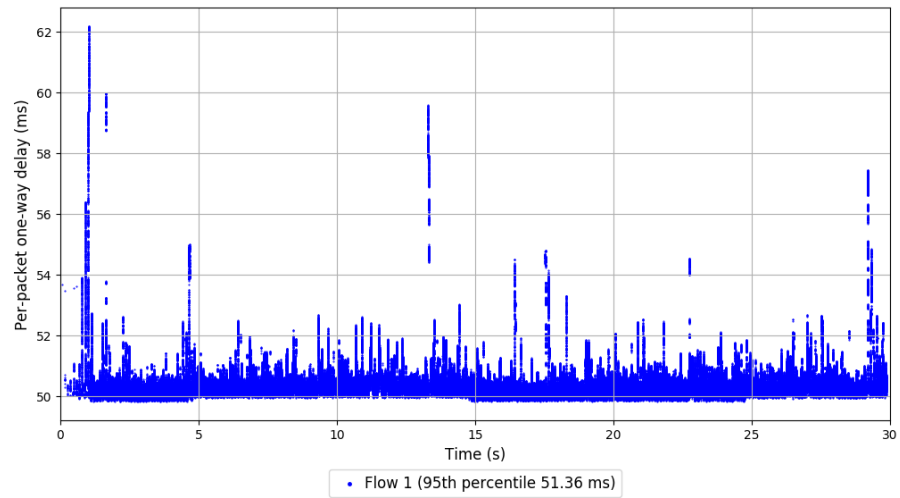
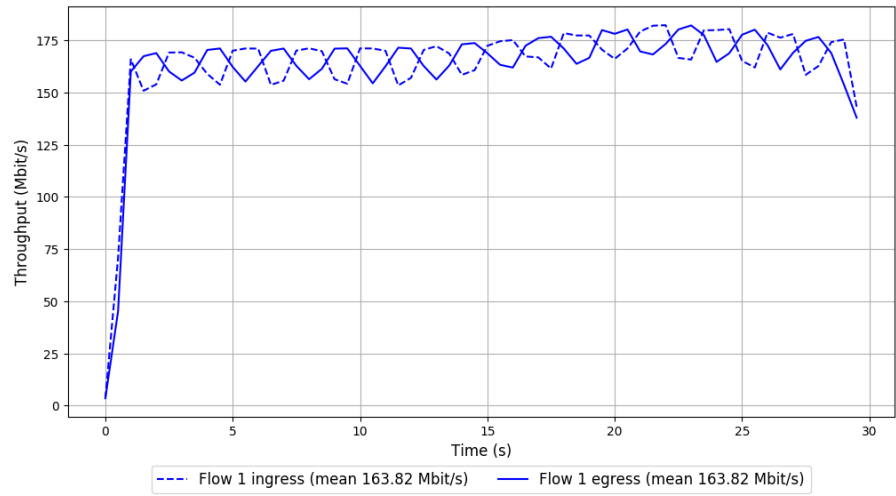
-- Flow 1:

Average throughput: 163.82 Mbit/s

95th percentile per-packet one-way delay: 51.357 ms

Loss rate: 0.36%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-03 08:51:44

End at: 2018-04-03 08:52:14

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.33 Mbit/s

95th percentile per-packet one-way delay: 51.223 ms

Loss rate: 0.39%

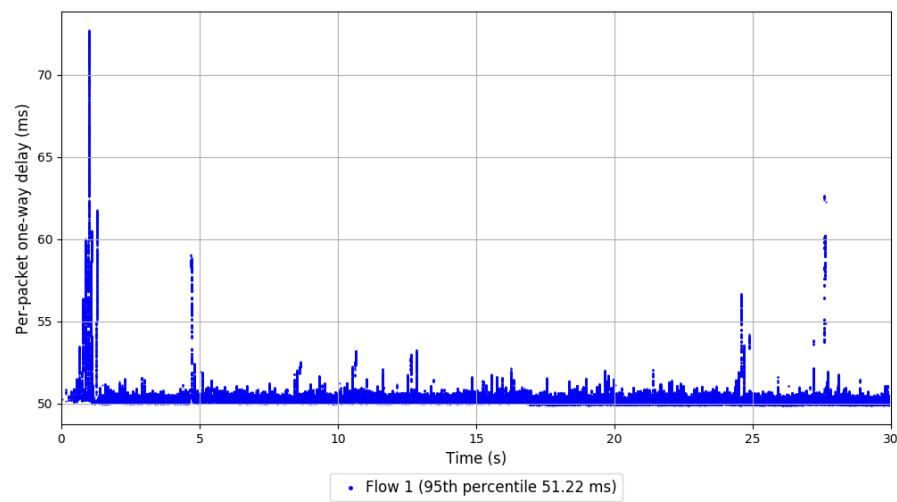
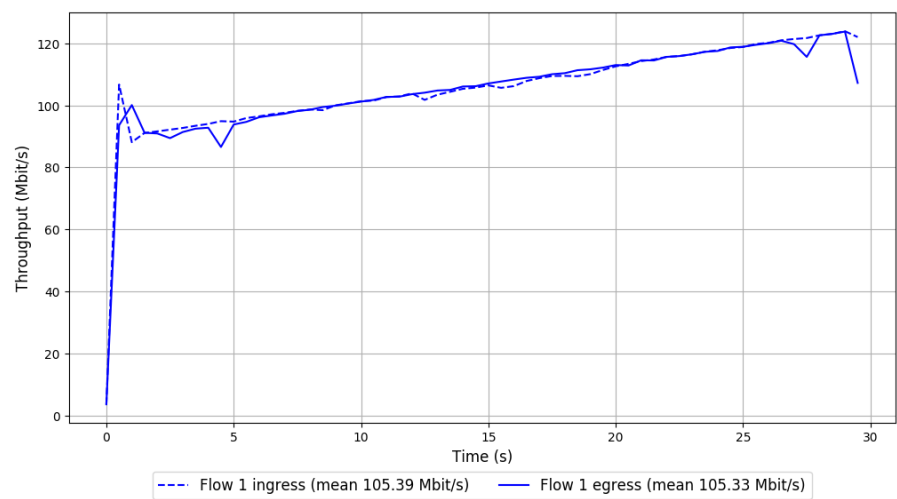
-- Flow 1:

Average throughput: 105.33 Mbit/s

95th percentile per-packet one-way delay: 51.223 ms

Loss rate: 0.39%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-03 09:06:19

End at: 2018-04-03 09:06:49

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.59 Mbit/s

95th percentile per-packet one-way delay: 58.904 ms

Loss rate: 0.16%

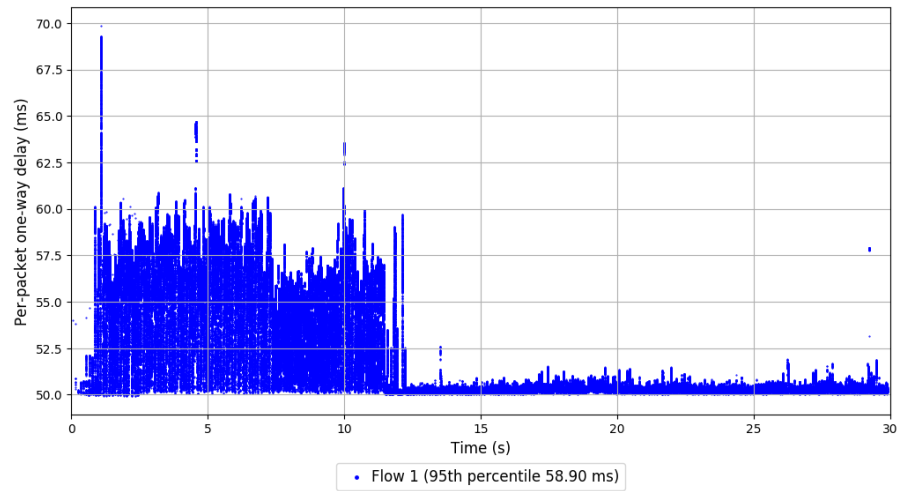
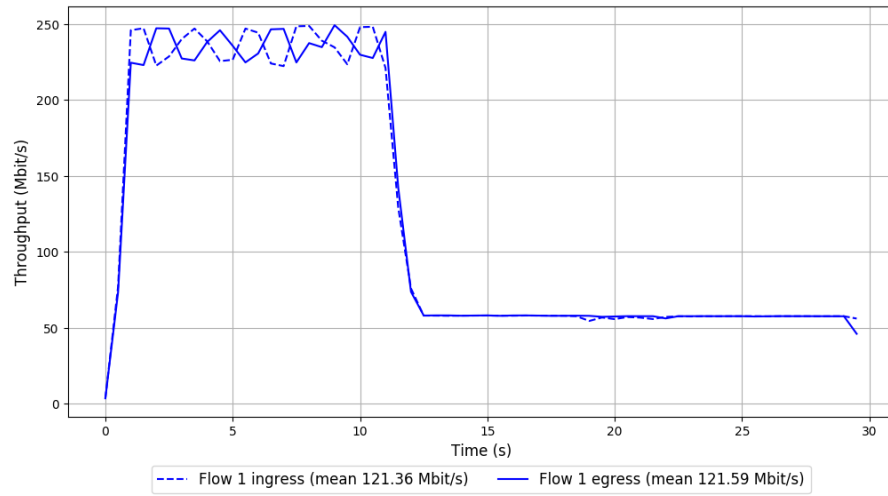
-- Flow 1:

Average throughput: 121.59 Mbit/s

95th percentile per-packet one-way delay: 58.904 ms

Loss rate: 0.16%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-03 09:20:45

End at: 2018-04-03 09:21:15

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.58 Mbit/s

95th percentile per-packet one-way delay: 51.627 ms

Loss rate: 0.37%

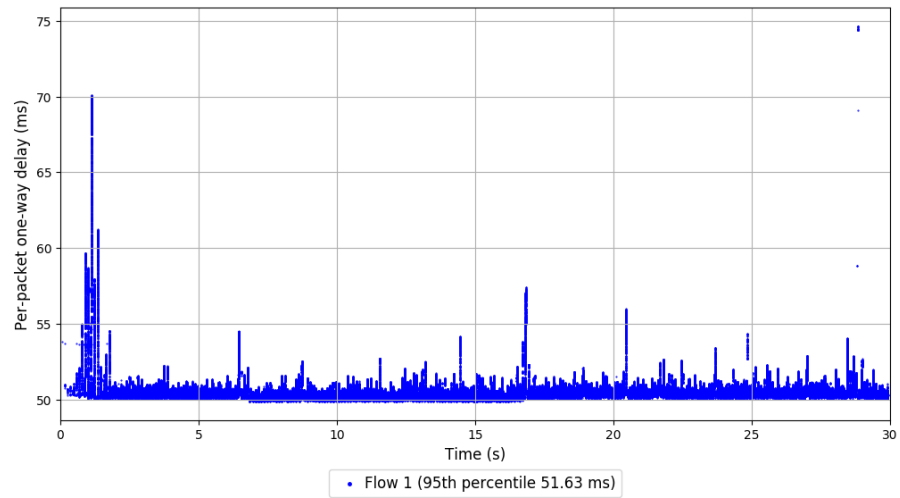
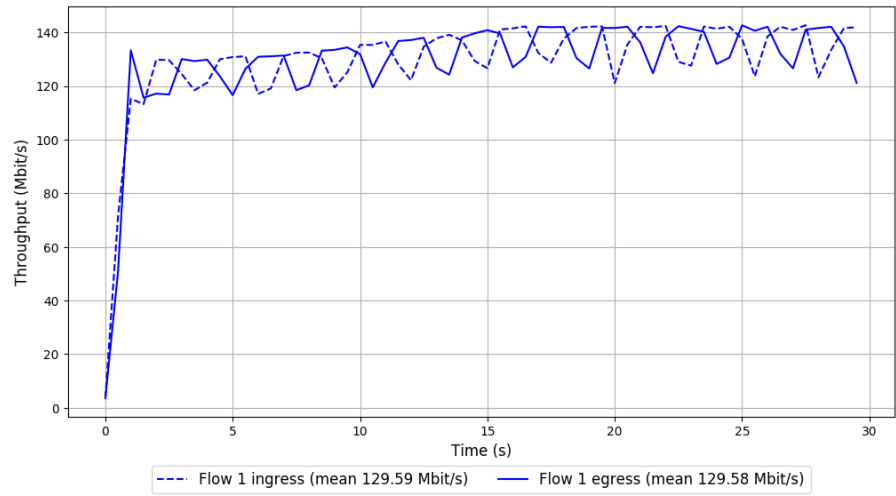
-- Flow 1:

Average throughput: 129.58 Mbit/s

95th percentile per-packet one-way delay: 51.627 ms

Loss rate: 0.37%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-03 09:35:26

End at: 2018-04-03 09:35:56

Below is generated by plot.py at 2018-04-03 12:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 51.596 ms

Loss rate: 0.36%

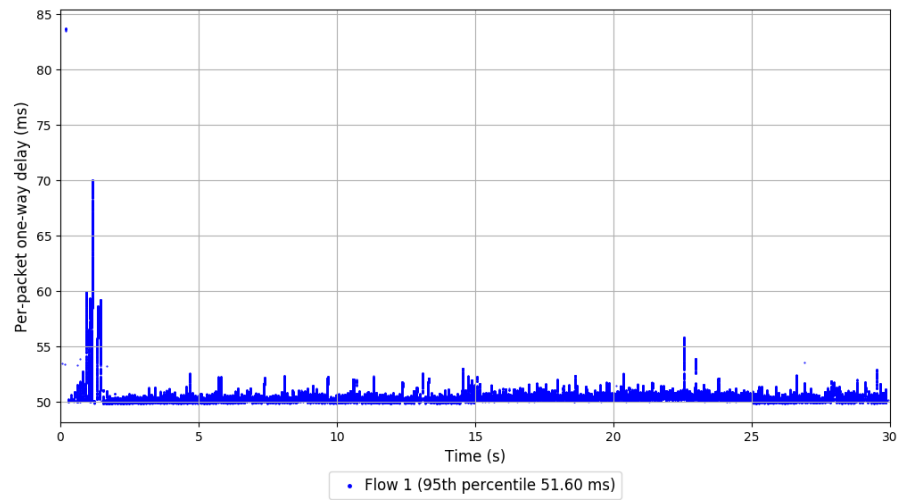
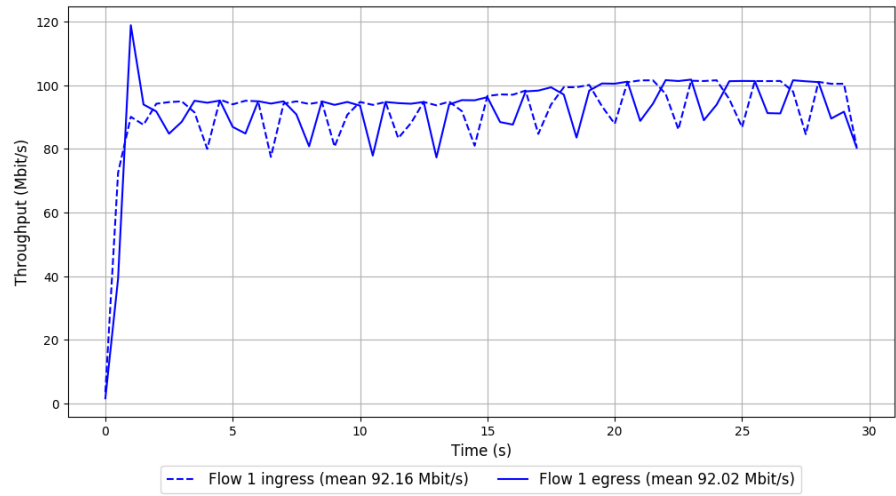
-- Flow 1:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 51.596 ms

Loss rate: 0.36%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-03 07:21:35

End at: 2018-04-03 07:22:05

Below is generated by plot.py at 2018-04-03 12:54:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.43 Mbit/s

95th percentile per-packet one-way delay: 101.601 ms

Loss rate: 0.92%

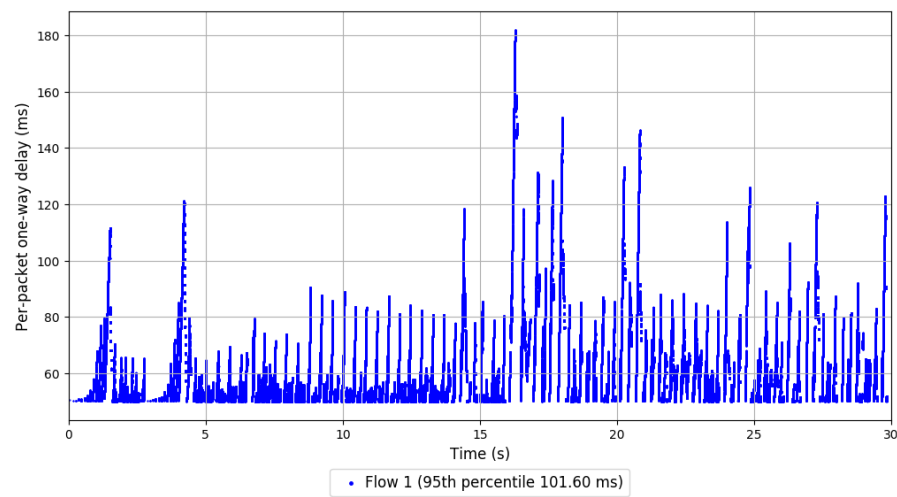
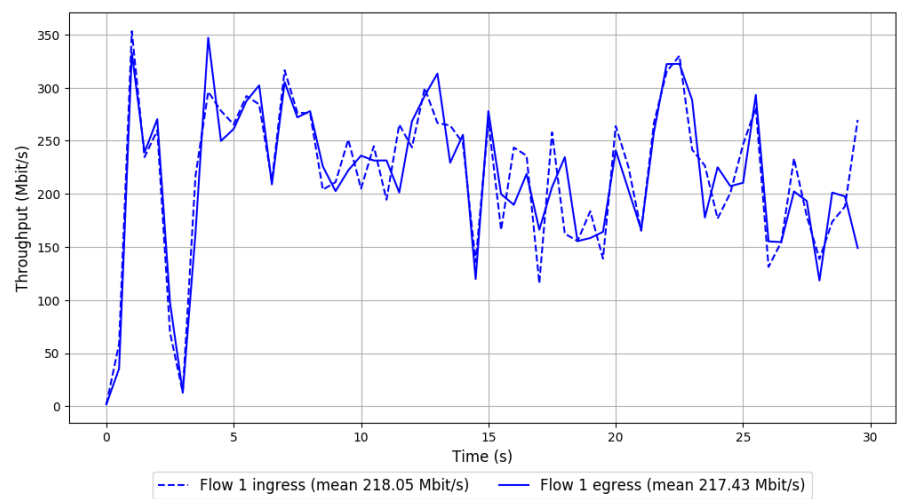
-- Flow 1:

Average throughput: 217.43 Mbit/s

95th percentile per-packet one-way delay: 101.601 ms

Loss rate: 0.92%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-03 07:35:51

End at: 2018-04-03 07:36:21

Below is generated by plot.py at 2018-04-03 12:56:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.63 Mbit/s

95th percentile per-packet one-way delay: 105.492 ms

Loss rate: 0.51%

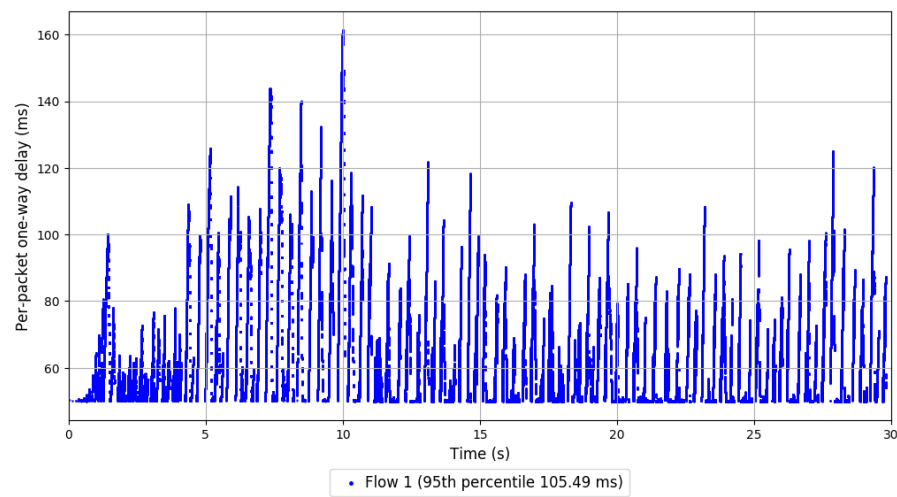
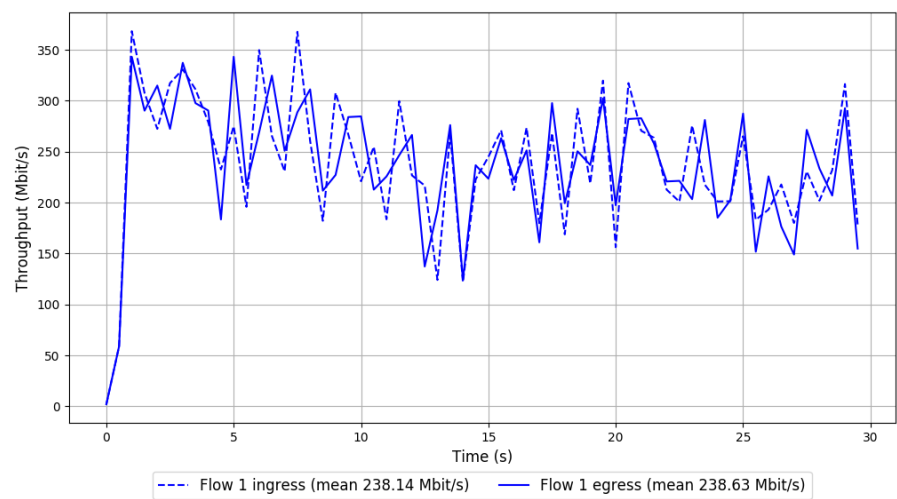
-- Flow 1:

Average throughput: 238.63 Mbit/s

95th percentile per-packet one-way delay: 105.492 ms

Loss rate: 0.51%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-03 07:50:05

End at: 2018-04-03 07:50:35

Below is generated by plot.py at 2018-04-03 12:56:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.55 Mbit/s

95th percentile per-packet one-way delay: 102.810 ms

Loss rate: 0.40%

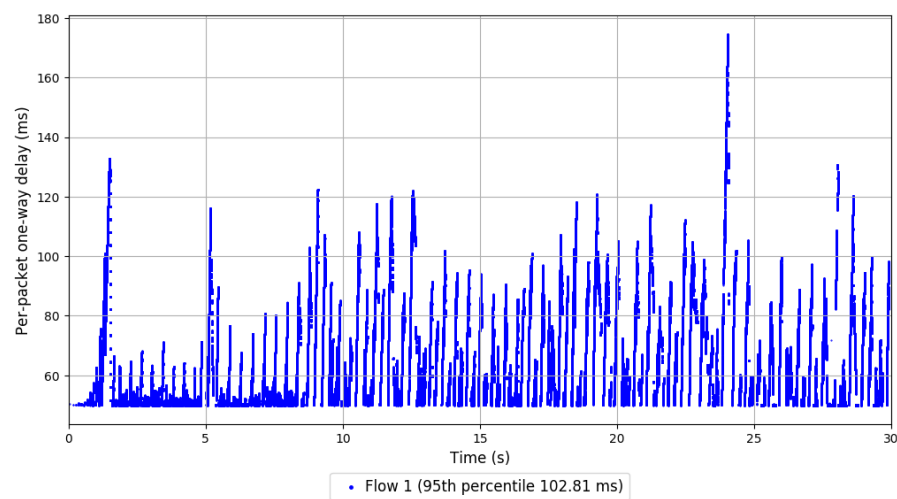
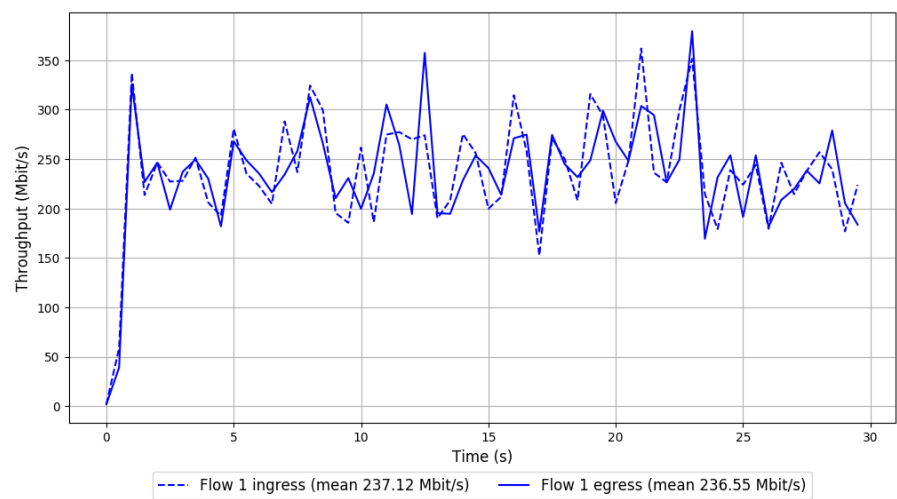
-- Flow 1:

Average throughput: 236.55 Mbit/s

95th percentile per-packet one-way delay: 102.810 ms

Loss rate: 0.40%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-03 08:04:12

End at: 2018-04-03 08:04:42

Below is generated by plot.py at 2018-04-03 12:56:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.17 Mbit/s

95th percentile per-packet one-way delay: 103.470 ms

Loss rate: 0.00%

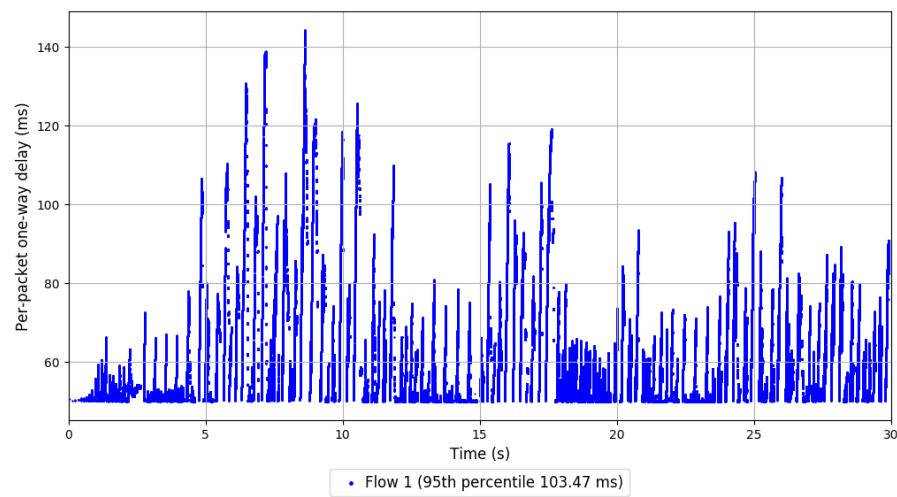
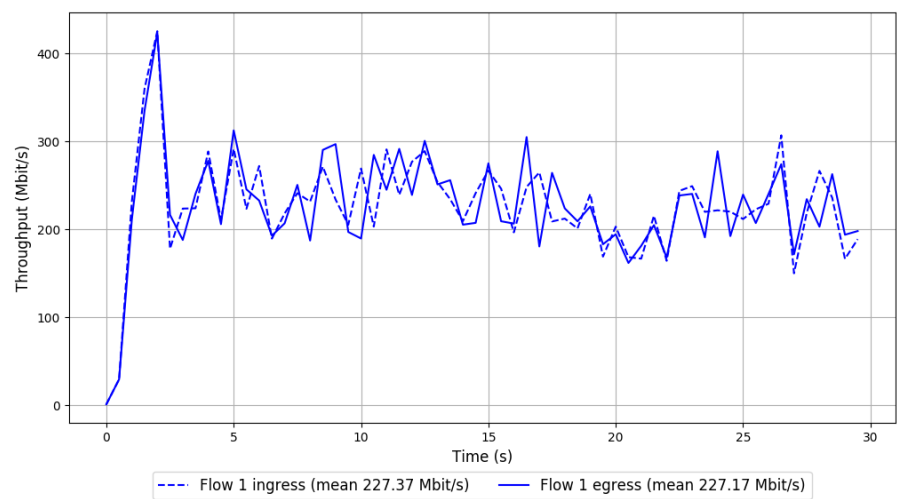
-- Flow 1:

Average throughput: 227.17 Mbit/s

95th percentile per-packet one-way delay: 103.470 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-03 08:18:31

End at: 2018-04-03 08:19:01

Below is generated by plot.py at 2018-04-03 12:56:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.12 Mbit/s

95th percentile per-packet one-way delay: 91.691 ms

Loss rate: 0.54%

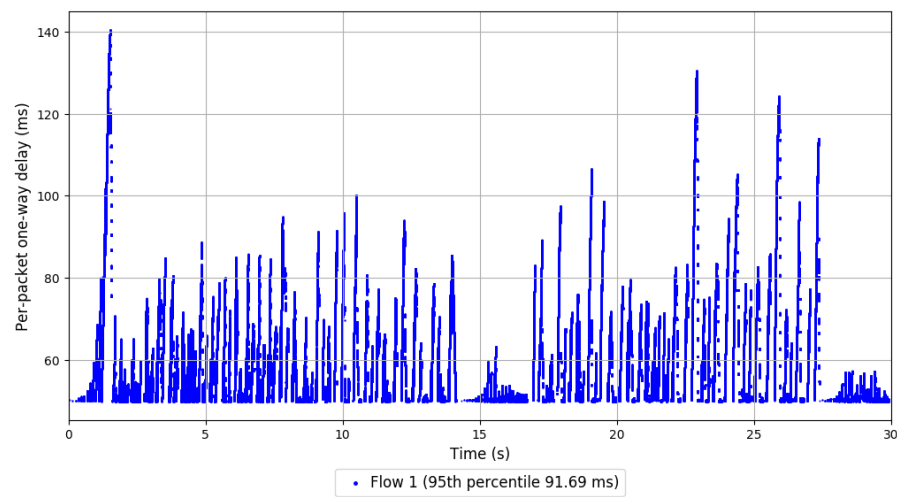
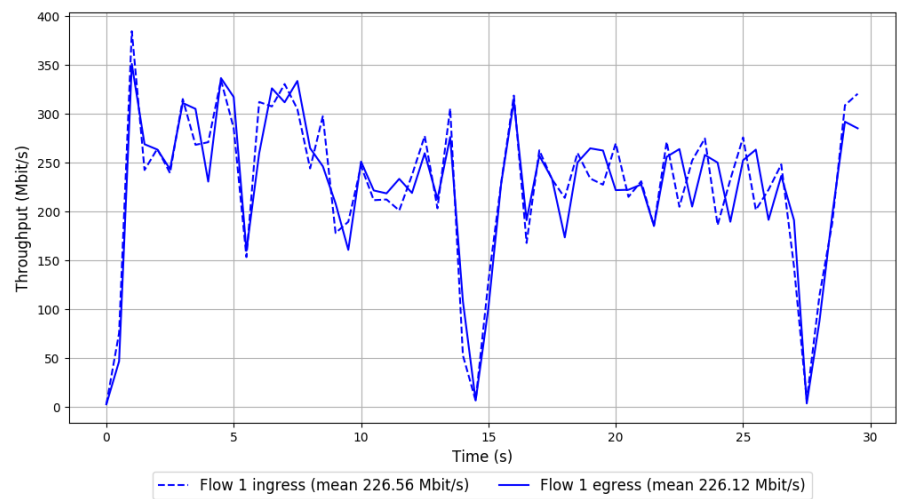
-- Flow 1:

Average throughput: 226.12 Mbit/s

95th percentile per-packet one-way delay: 91.691 ms

Loss rate: 0.54%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-03 08:32:44

End at: 2018-04-03 08:33:14

Below is generated by plot.py at 2018-04-03 12:56:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.37 Mbit/s

95th percentile per-packet one-way delay: 113.831 ms

Loss rate: 0.40%

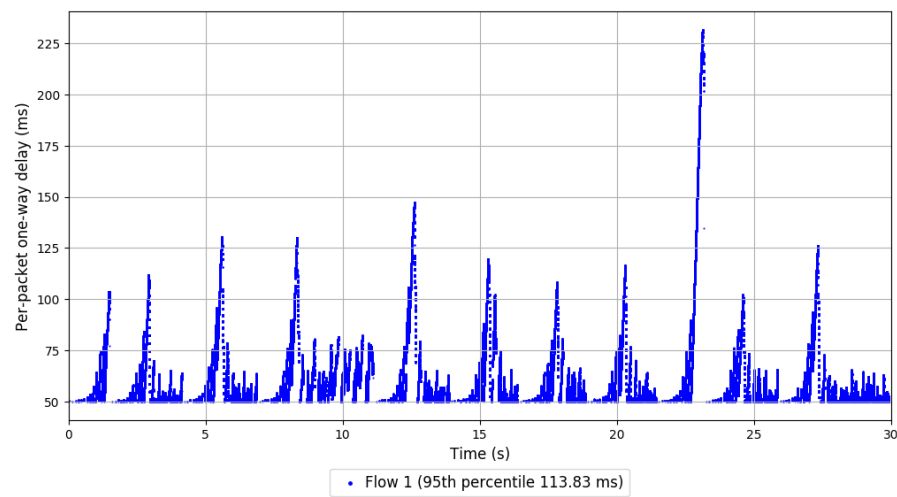
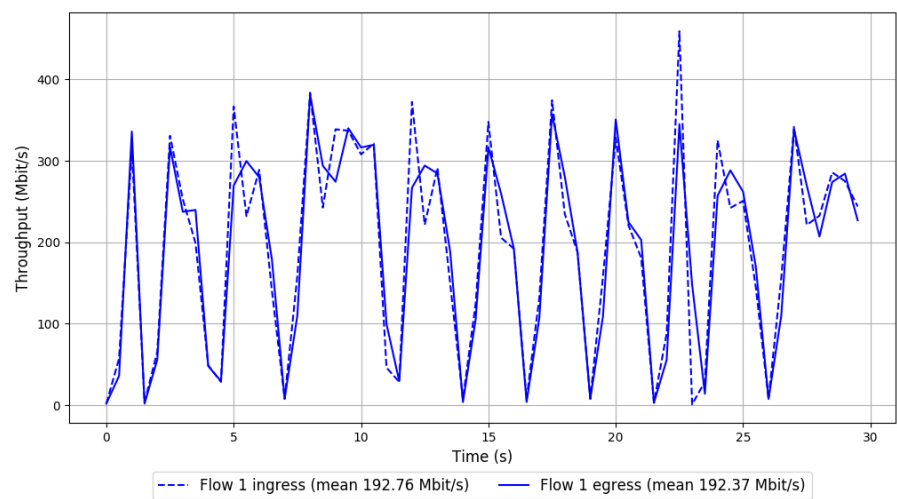
-- Flow 1:

Average throughput: 192.37 Mbit/s

95th percentile per-packet one-way delay: 113.831 ms

Loss rate: 0.40%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-03 08:47:20

End at: 2018-04-03 08:47:50

Below is generated by plot.py at 2018-04-03 12:58:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.44 Mbit/s

95th percentile per-packet one-way delay: 95.146 ms

Loss rate: 0.00%

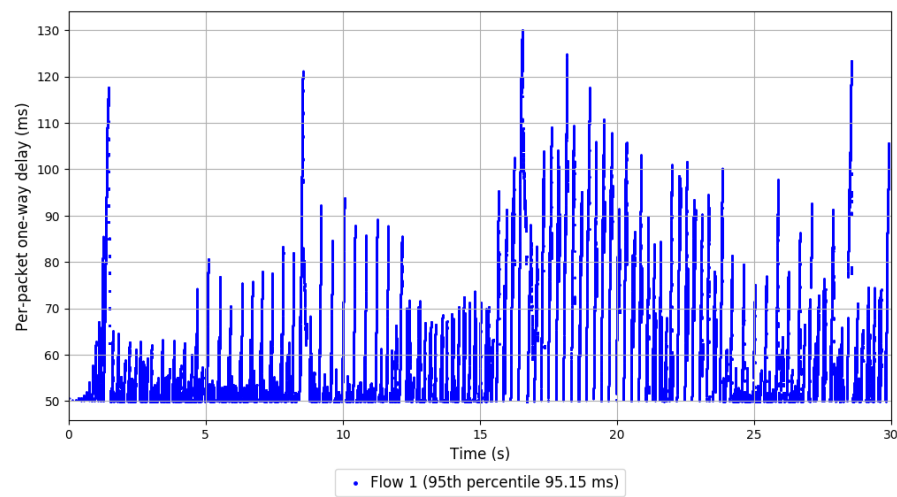
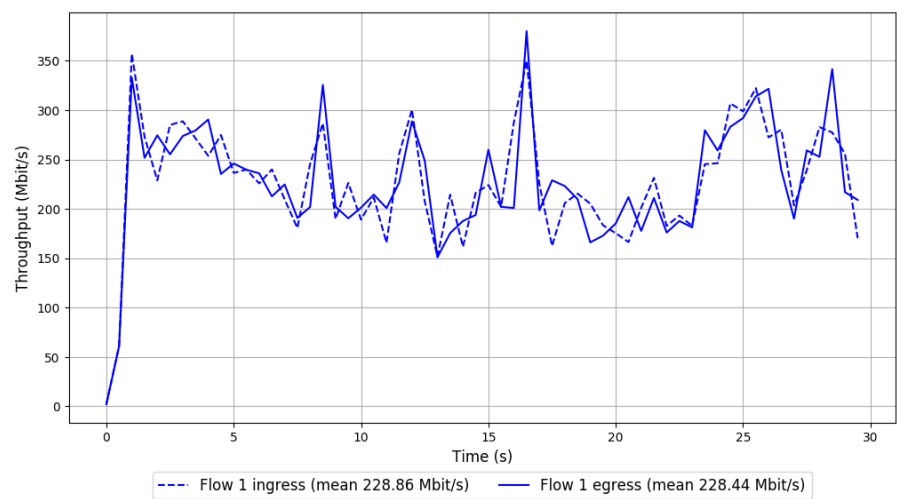
-- Flow 1:

Average throughput: 228.44 Mbit/s

95th percentile per-packet one-way delay: 95.146 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-03 09:02:14

End at: 2018-04-03 09:02:44

Below is generated by plot.py at 2018-04-03 12:58:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.75 Mbit/s

95th percentile per-packet one-way delay: 86.615 ms

Loss rate: 0.30%

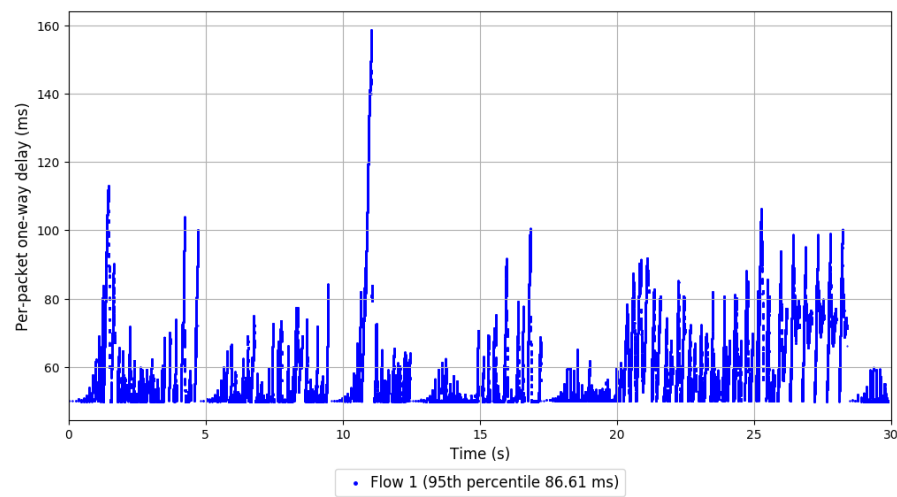
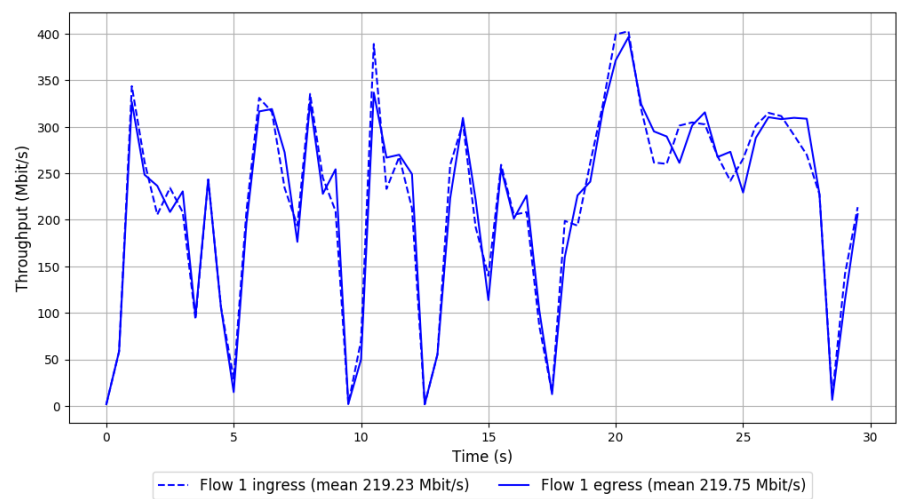
-- Flow 1:

Average throughput: 219.75 Mbit/s

95th percentile per-packet one-way delay: 86.615 ms

Loss rate: 0.30%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-03 09:16:39

End at: 2018-04-03 09:17:09

Below is generated by plot.py at 2018-04-03 13:00:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.04 Mbit/s

95th percentile per-packet one-way delay: 115.682 ms

Loss rate: 0.25%

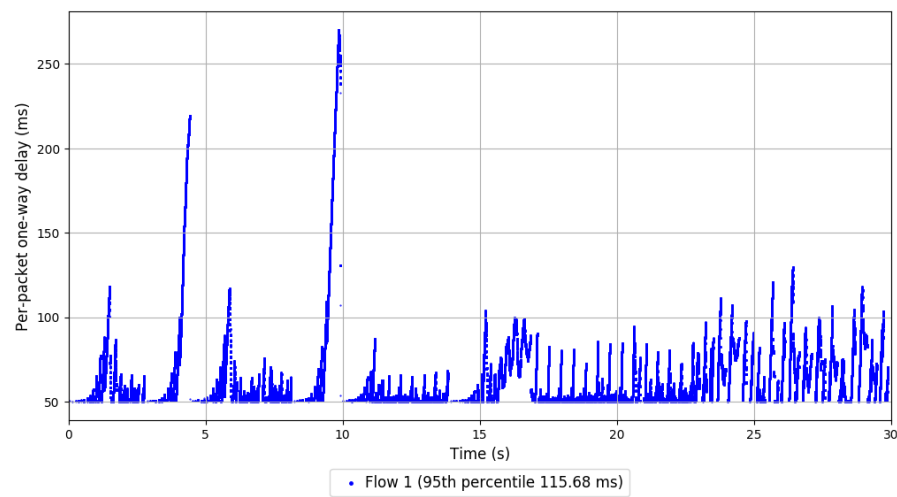
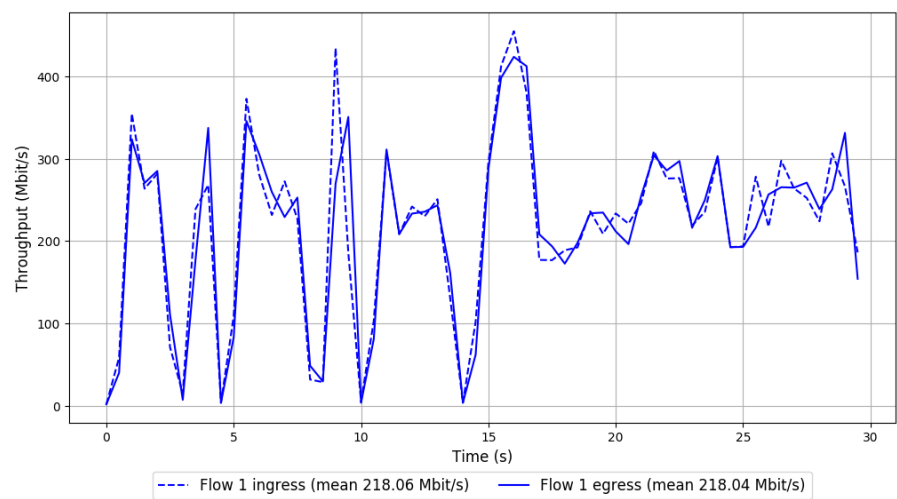
-- Flow 1:

Average throughput: 218.04 Mbit/s

95th percentile per-packet one-way delay: 115.682 ms

Loss rate: 0.25%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-03 09:31:18

End at: 2018-04-03 09:31:49

Below is generated by plot.py at 2018-04-03 13:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.84 Mbit/s

95th percentile per-packet one-way delay: 90.624 ms

Loss rate: 0.47%

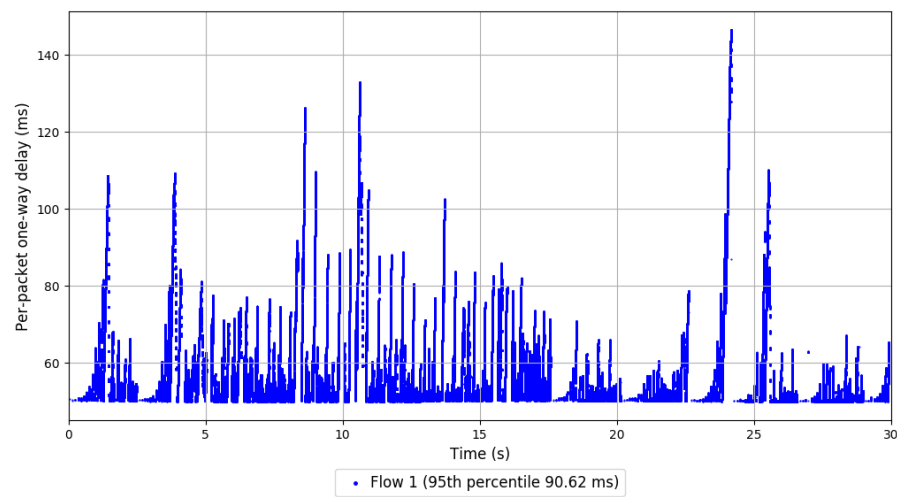
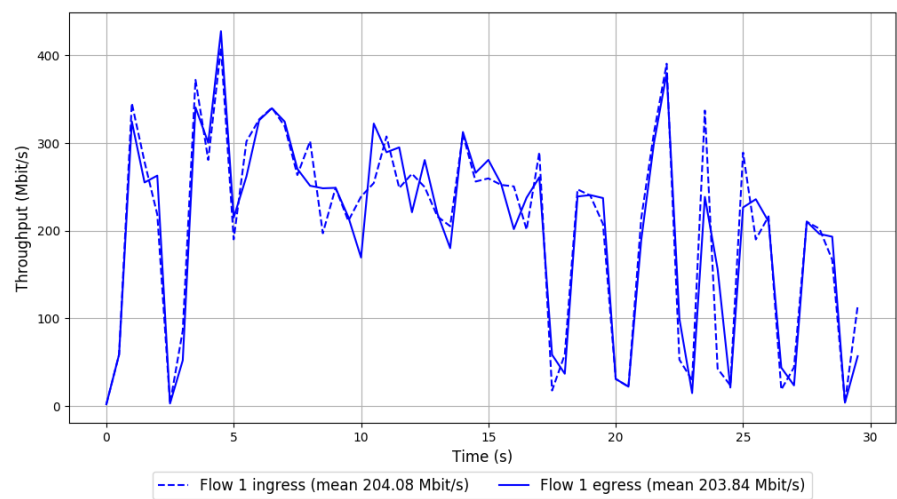
-- Flow 1:

Average throughput: 203.84 Mbit/s

95th percentile per-packet one-way delay: 90.624 ms

Loss rate: 0.47%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-03 07:27:41

End at: 2018-04-03 07:28:11

Below is generated by plot.py at 2018-04-03 13:00:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 50.233 ms

Loss rate: 0.33%

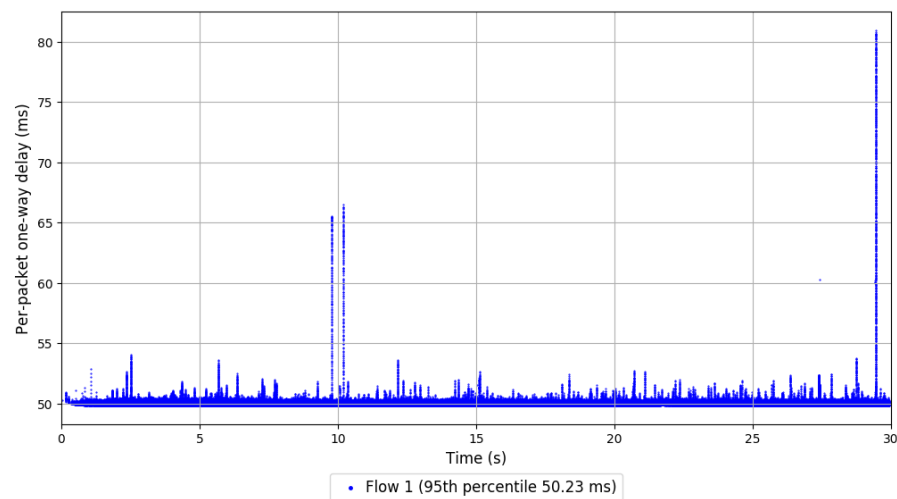
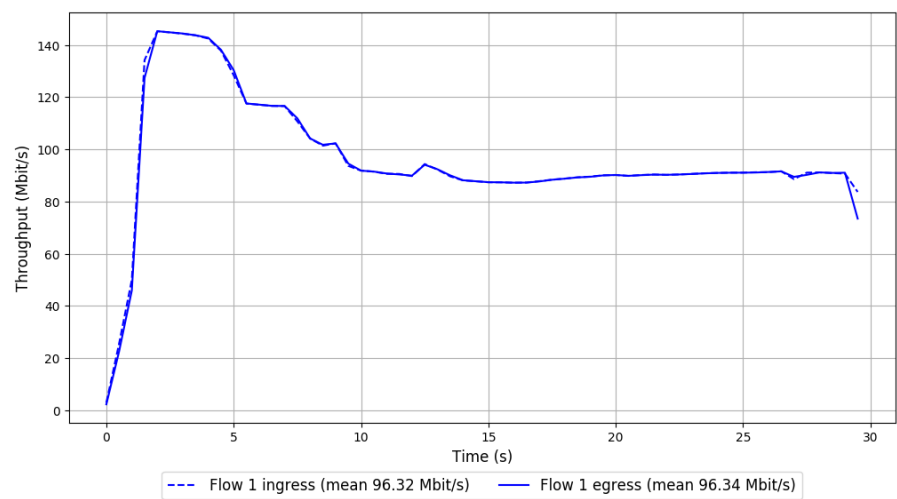
-- Flow 1:

Average throughput: 96.34 Mbit/s

95th percentile per-packet one-way delay: 50.233 ms

Loss rate: 0.33%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-03 07:41:56

End at: 2018-04-03 07:42:26

Below is generated by plot.py at 2018-04-03 13:00:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 53.549 ms

Loss rate: 0.04%

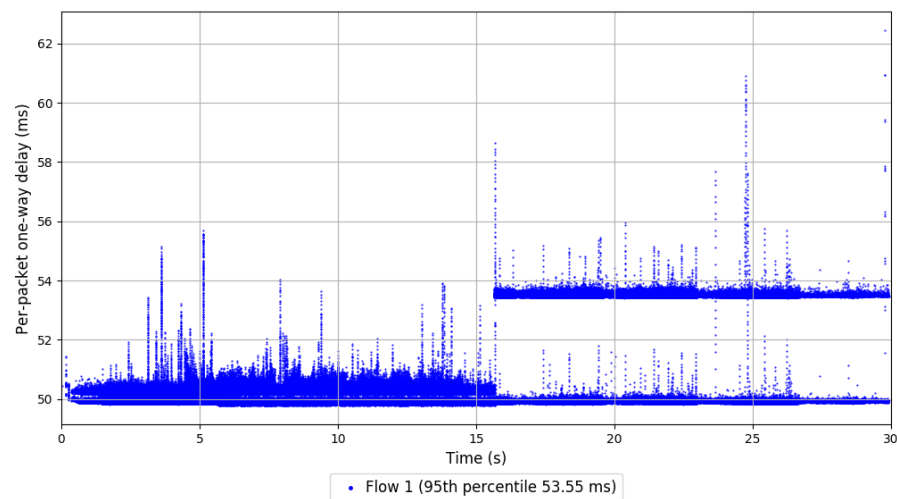
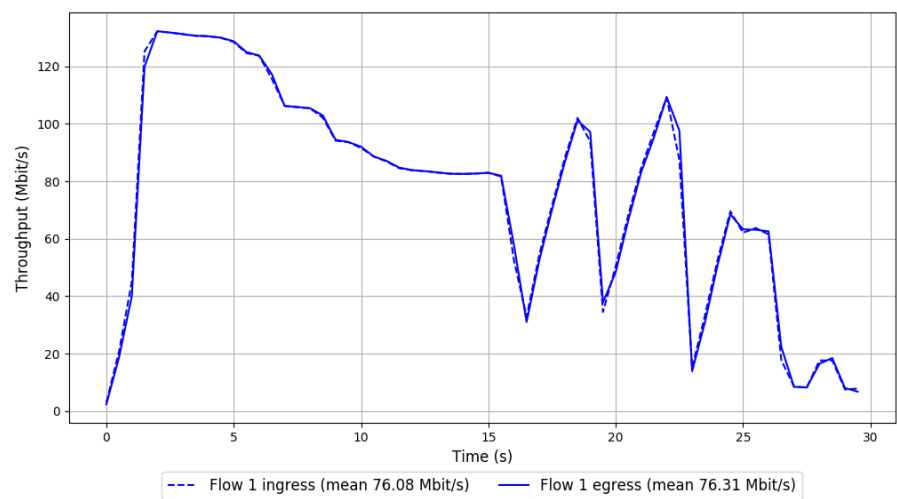
-- Flow 1:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 53.549 ms

Loss rate: 0.04%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-03 07:56:13

End at: 2018-04-03 07:56:43

Below is generated by plot.py at 2018-04-03 13:00:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 50.176 ms

Loss rate: 0.40%

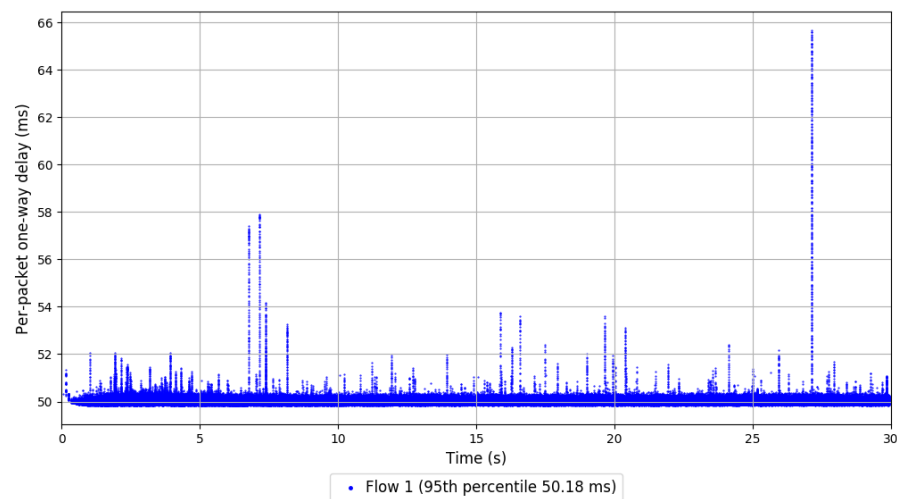
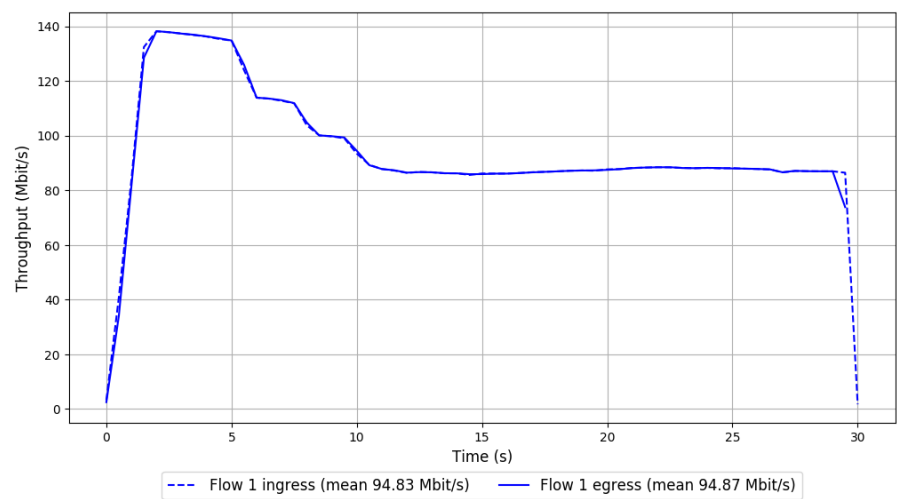
-- Flow 1:

Average throughput: 94.87 Mbit/s

95th percentile per-packet one-way delay: 50.176 ms

Loss rate: 0.40%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-03 08:10:15

End at: 2018-04-03 08:10:45

Below is generated by plot.py at 2018-04-03 13:00:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.21 Mbit/s

95th percentile per-packet one-way delay: 50.506 ms

Loss rate: 0.30%

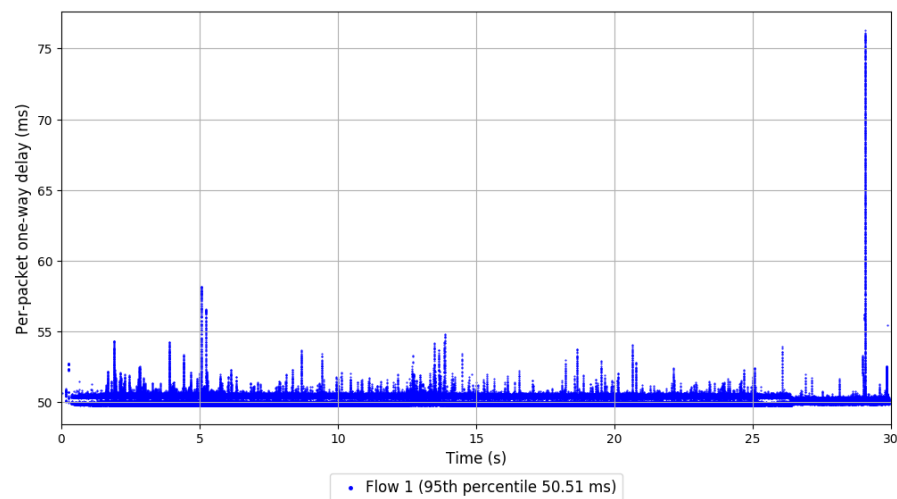
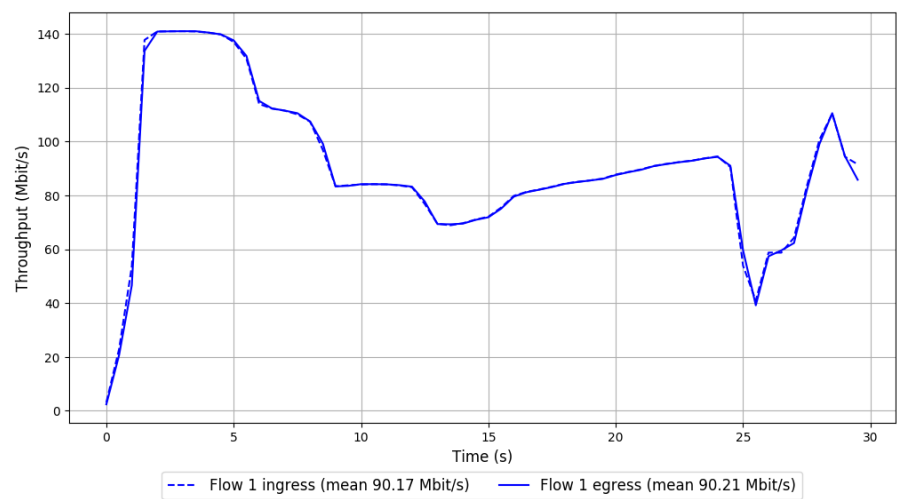
-- Flow 1:

Average throughput: 90.21 Mbit/s

95th percentile per-packet one-way delay: 50.506 ms

Loss rate: 0.30%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-03 08:24:37

End at: 2018-04-03 08:25:07

Below is generated by plot.py at 2018-04-03 13:01:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 53.635 ms

Loss rate: 0.34%

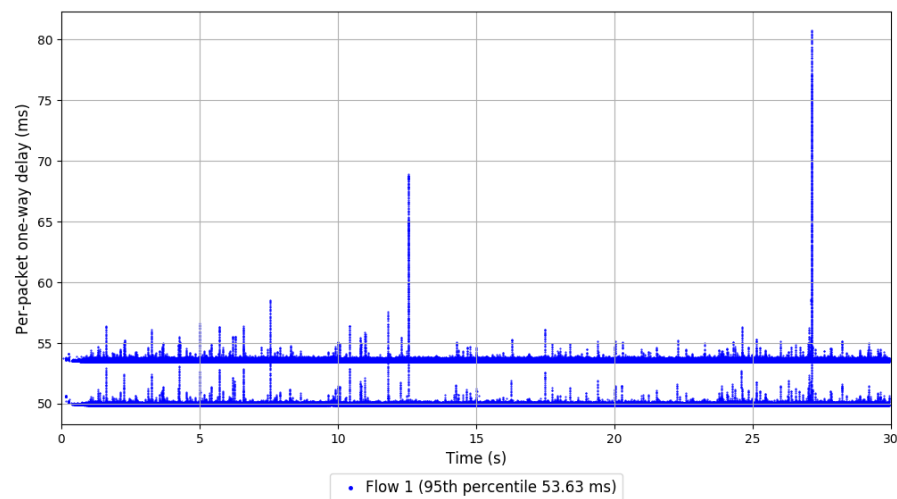
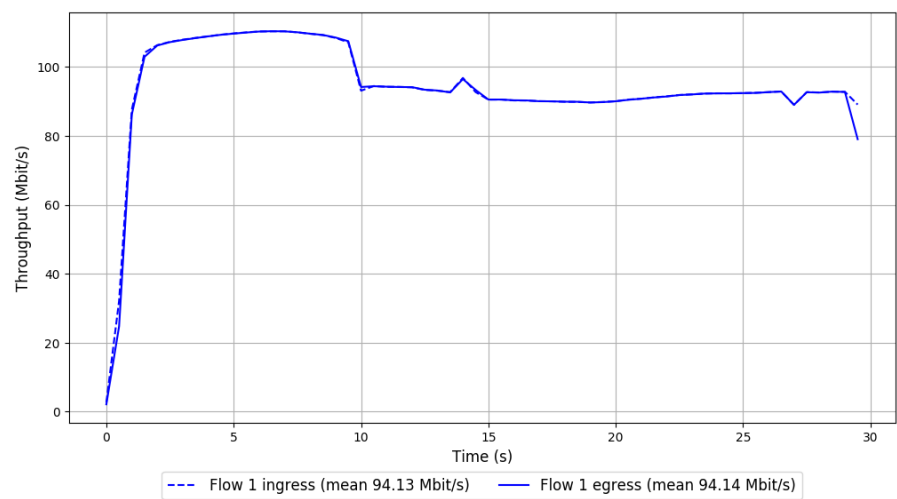
-- Flow 1:

Average throughput: 94.14 Mbit/s

95th percentile per-packet one-way delay: 53.635 ms

Loss rate: 0.34%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-03 08:39:09

End at: 2018-04-03 08:39:39

Below is generated by plot.py at 2018-04-03 13:01:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 53.597 ms

Loss rate: 0.17%

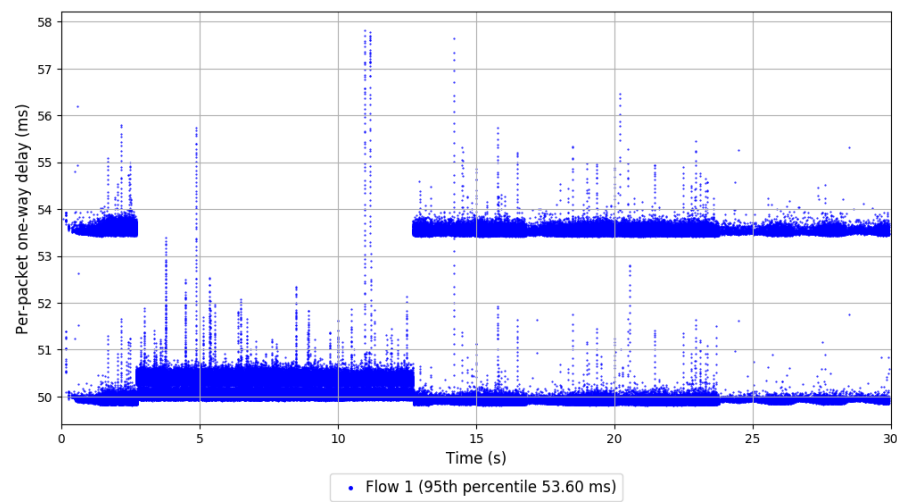
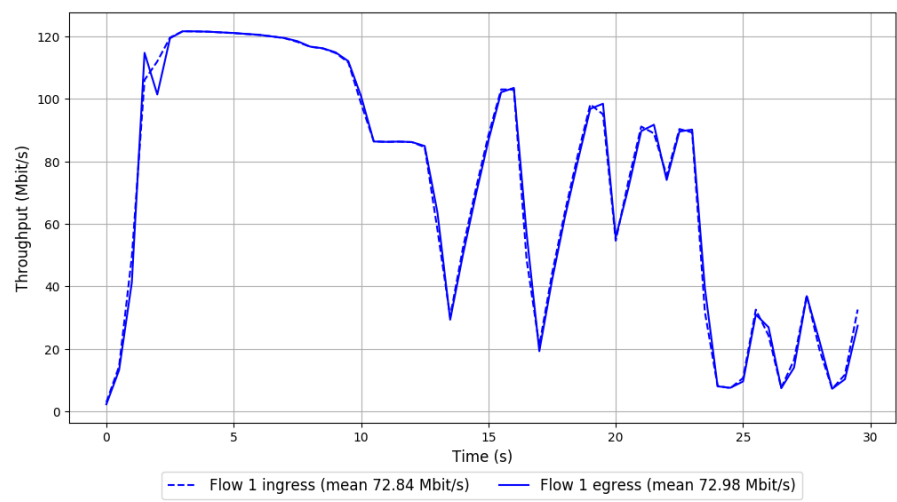
-- Flow 1:

Average throughput: 72.98 Mbit/s

95th percentile per-packet one-way delay: 53.597 ms

Loss rate: 0.17%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-03 08:53:44

End at: 2018-04-03 08:54:14

Below is generated by plot.py at 2018-04-03 13:11:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.89 Mbit/s

95th percentile per-packet one-way delay: 230.280 ms

Loss rate: 25.09%

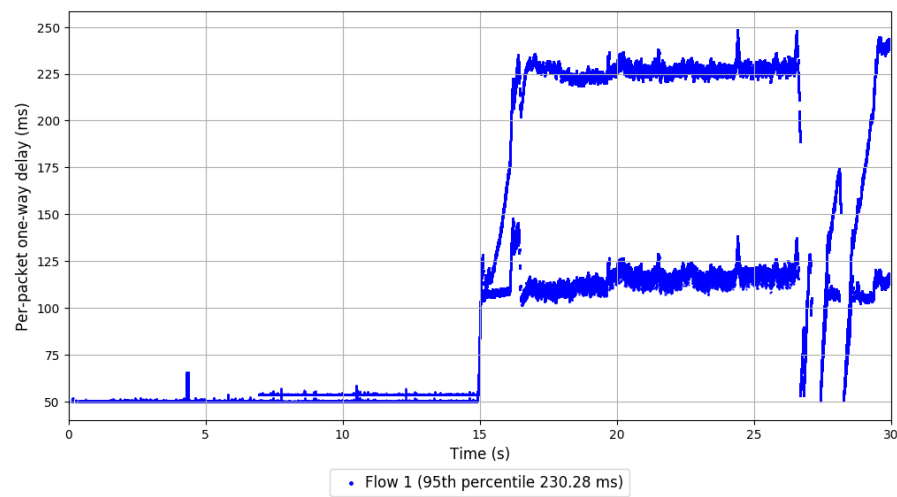
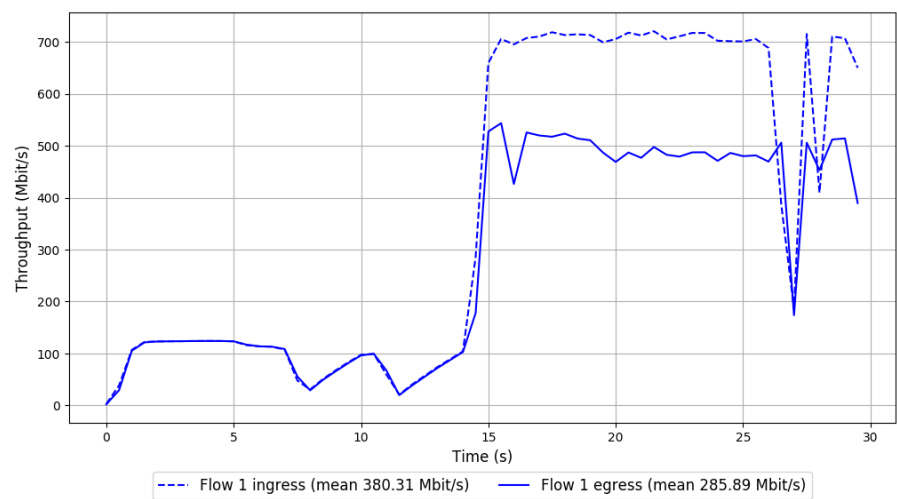
-- Flow 1:

Average throughput: 285.89 Mbit/s

95th percentile per-packet one-way delay: 230.280 ms

Loss rate: 25.09%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-03 09:08:19

End at: 2018-04-03 09:08:49

Below is generated by plot.py at 2018-04-03 13:11:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.62 Mbit/s

95th percentile per-packet one-way delay: 231.676 ms

Loss rate: 20.62%

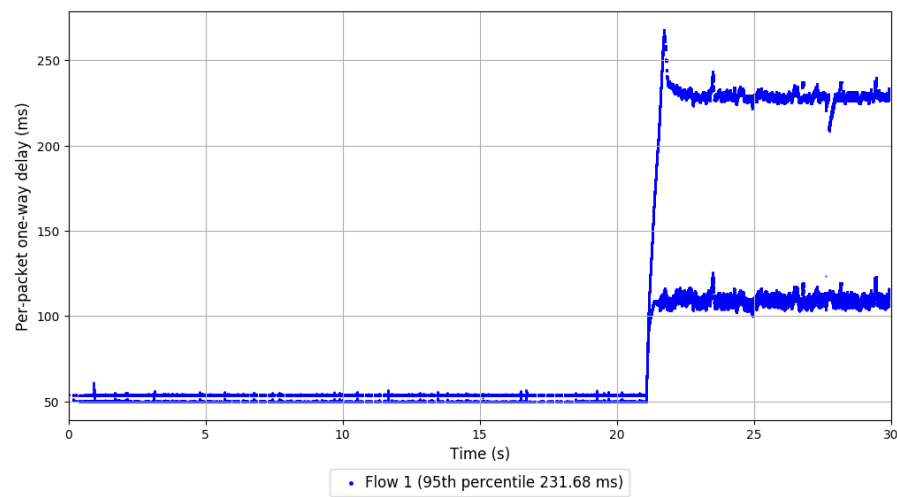
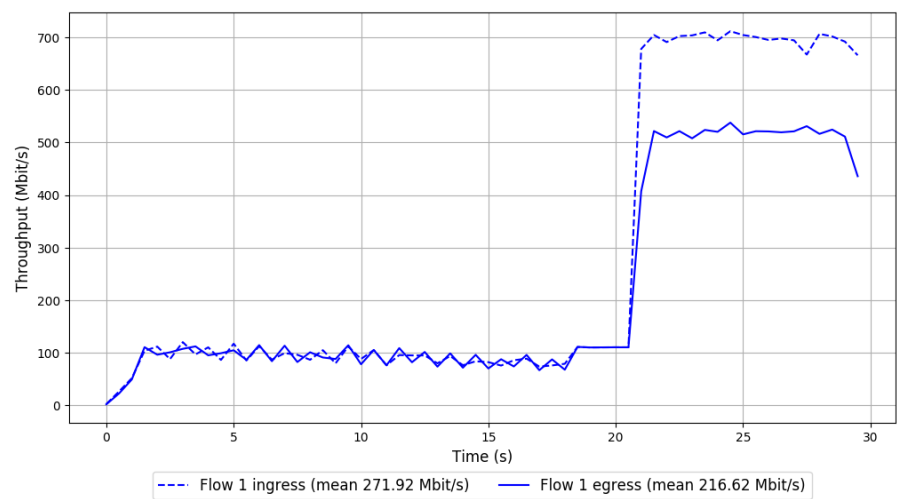
-- Flow 1:

Average throughput: 216.62 Mbit/s

95th percentile per-packet one-way delay: 231.676 ms

Loss rate: 20.62%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-03 09:22:46

End at: 2018-04-03 09:23:16

Below is generated by plot.py at 2018-04-03 13:16:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.85 Mbit/s

95th percentile per-packet one-way delay: 238.608 ms

Loss rate: 27.05%

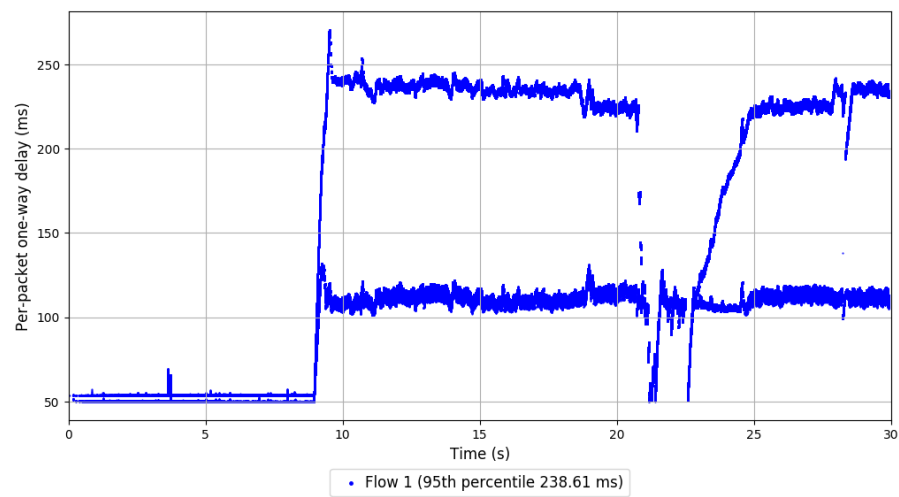
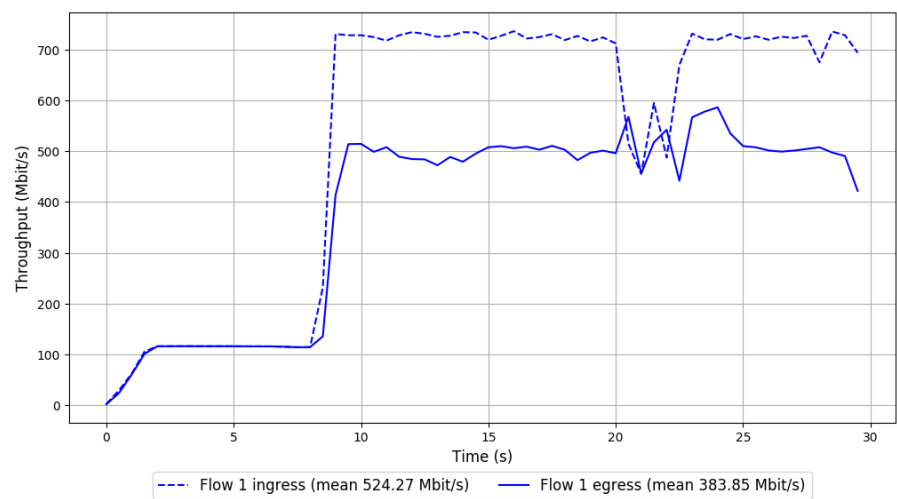
-- Flow 1:

Average throughput: 383.85 Mbit/s

95th percentile per-packet one-way delay: 238.608 ms

Loss rate: 27.05%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-03 09:37:26

End at: 2018-04-03 09:37:56

Below is generated by plot.py at 2018-04-03 13:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.90 Mbit/s

95th percentile per-packet one-way delay: 254.403 ms

Loss rate: 32.03%

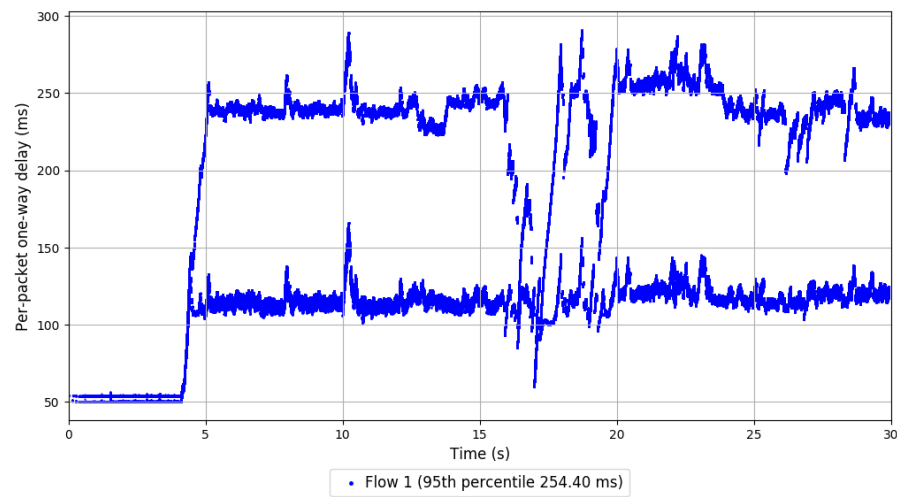
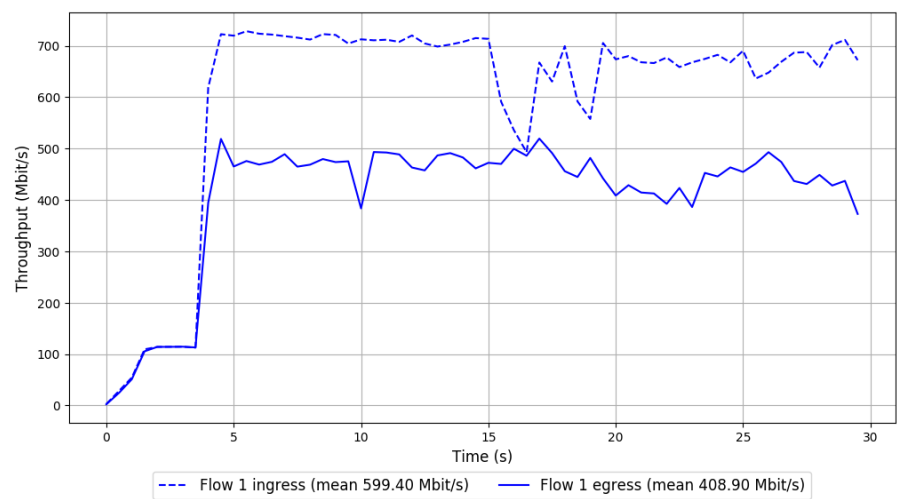
-- Flow 1:

Average throughput: 408.90 Mbit/s

95th percentile per-packet one-way delay: 254.403 ms

Loss rate: 32.03%

Run 10: Report of Copa — Data Link

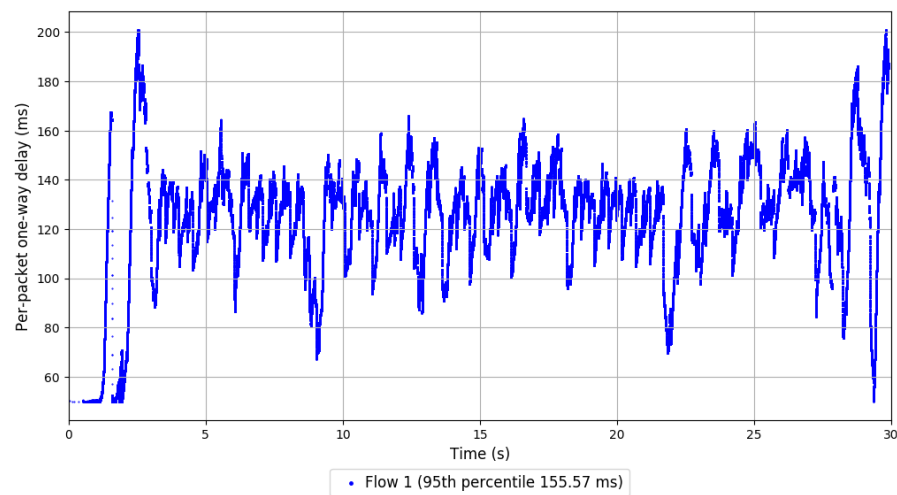
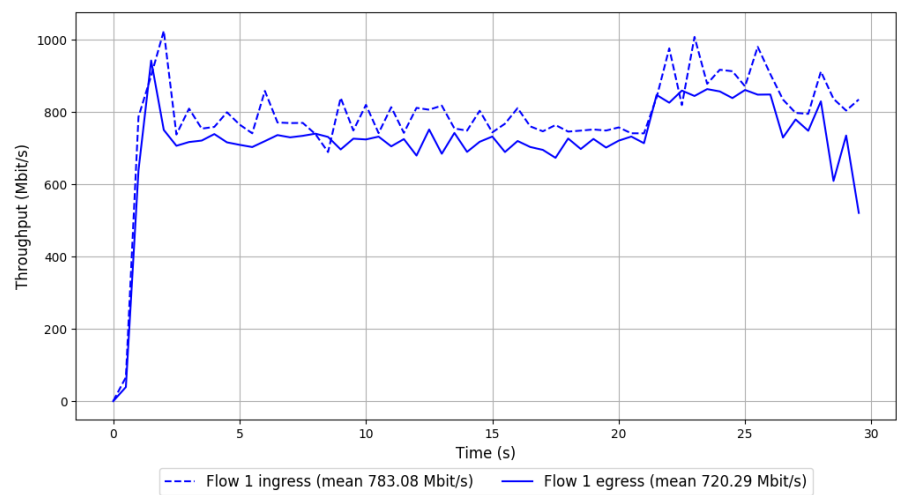


```
Run 1: Statistics of FillP

Start at: 2018-04-03 07:18:54
End at: 2018-04-03 07:19:24

# Below is generated by plot.py at 2018-04-03 13:17:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 720.29 Mbit/s
95th percentile per-packet one-way delay: 155.574 ms
Loss rate: 8.34%
-- Flow 1:
Average throughput: 720.29 Mbit/s
95th percentile per-packet one-way delay: 155.574 ms
Loss rate: 8.34%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-03 07:33:12

End at: 2018-04-03 07:33:42

Below is generated by plot.py at 2018-04-03 13:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 704.32 Mbit/s

95th percentile per-packet one-way delay: 143.626 ms

Loss rate: 6.81%

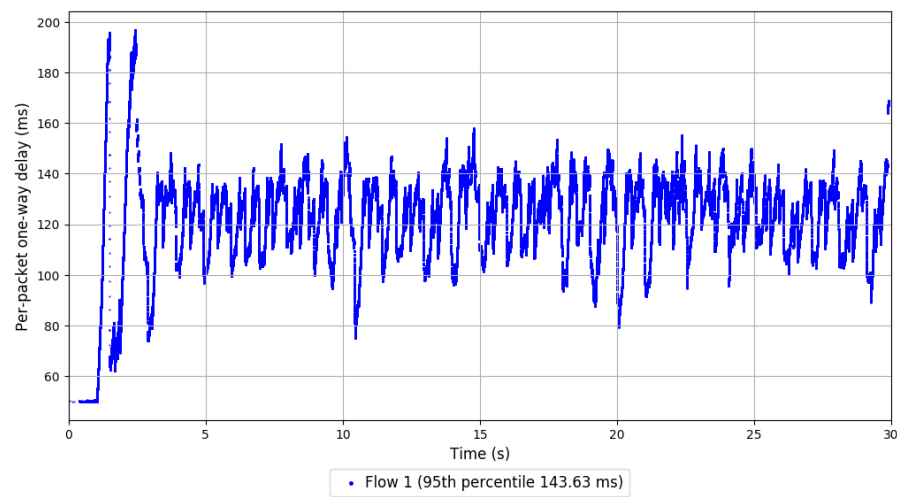
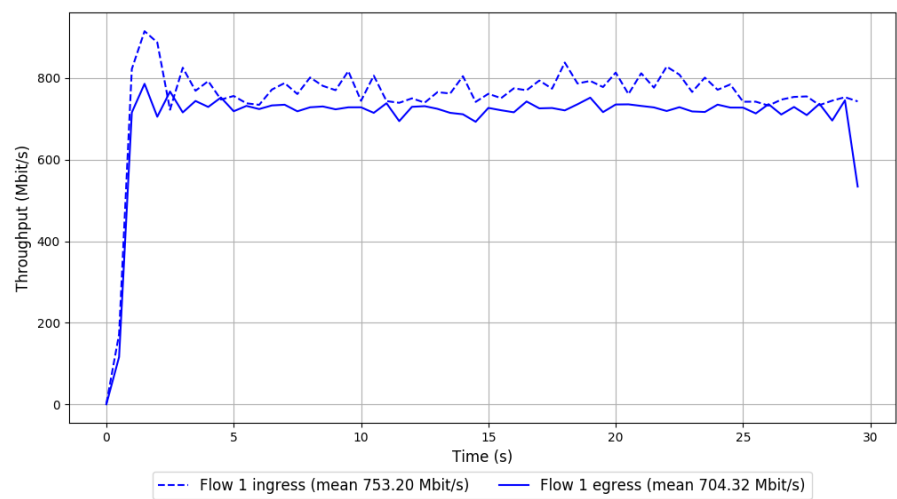
-- Flow 1:

Average throughput: 704.32 Mbit/s

95th percentile per-packet one-way delay: 143.626 ms

Loss rate: 6.81%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-03 07:47:25

End at: 2018-04-03 07:47:55

Below is generated by plot.py at 2018-04-03 13:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 704.29 Mbit/s

95th percentile per-packet one-way delay: 145.595 ms

Loss rate: 7.59%

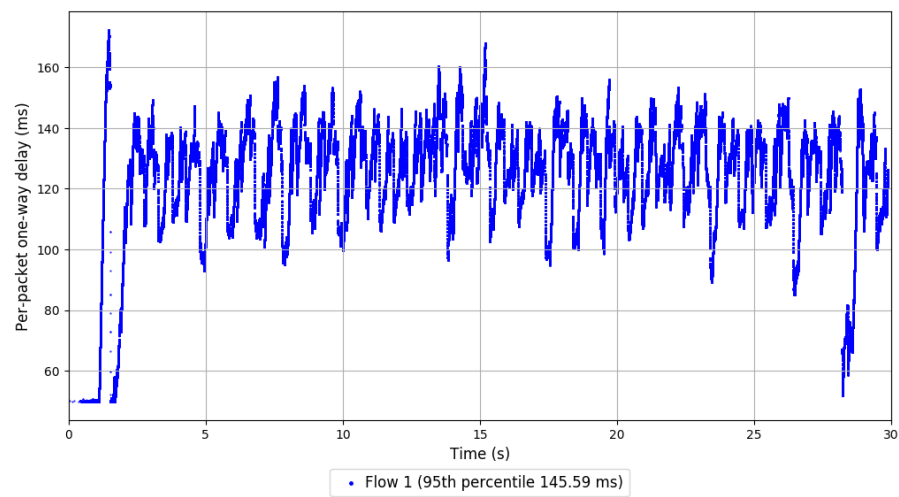
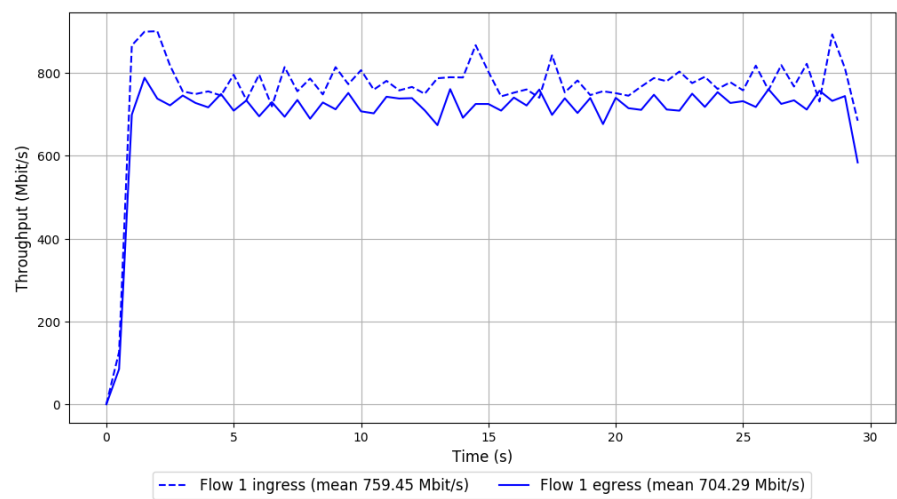
-- Flow 1:

Average throughput: 704.29 Mbit/s

95th percentile per-packet one-way delay: 145.595 ms

Loss rate: 7.59%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-03 08:01:46

End at: 2018-04-03 08:02:16

Below is generated by plot.py at 2018-04-03 13:17:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.19 Mbit/s

95th percentile per-packet one-way delay: 156.849 ms

Loss rate: 9.56%

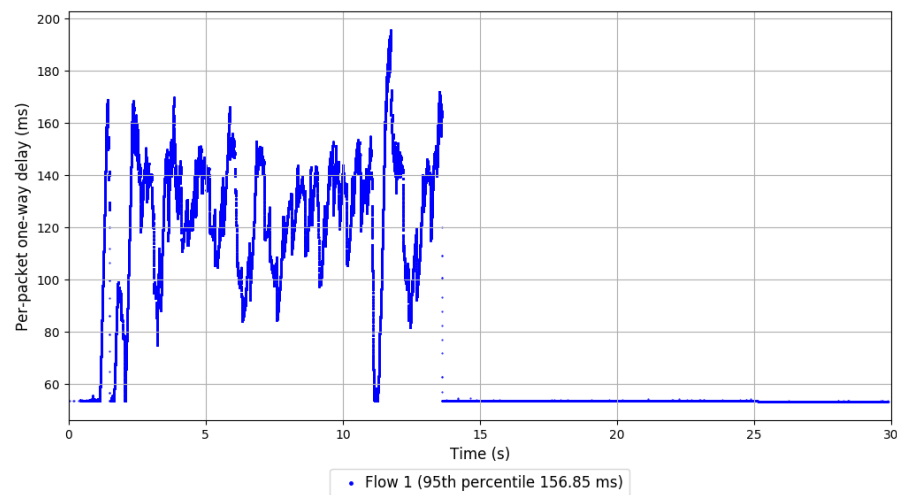
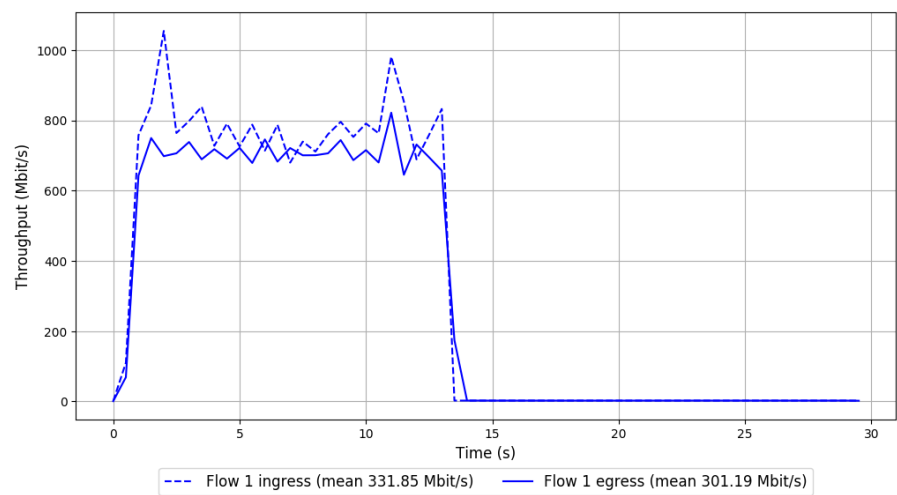
-- Flow 1:

Average throughput: 301.19 Mbit/s

95th percentile per-packet one-way delay: 156.849 ms

Loss rate: 9.56%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-03 08:15:50

End at: 2018-04-03 08:16:20

Below is generated by plot.py at 2018-04-03 13:25:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 734.40 Mbit/s

95th percentile per-packet one-way delay: 150.357 ms

Loss rate: 6.70%

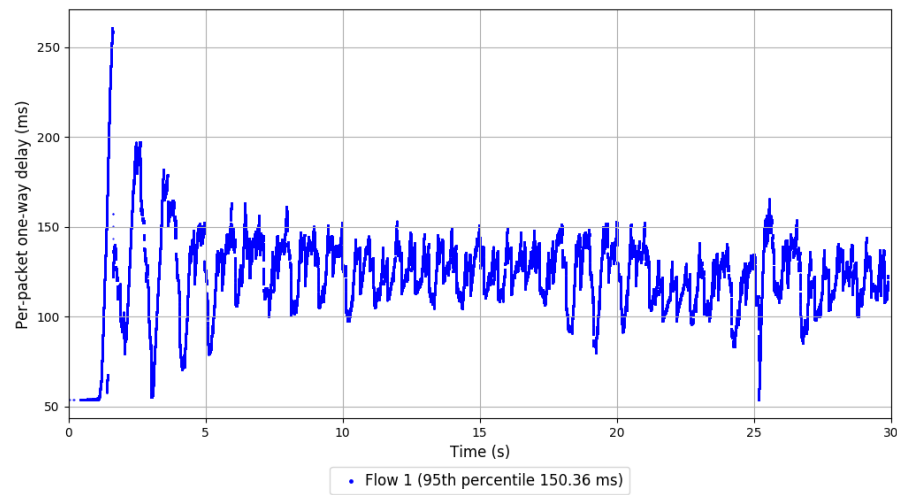
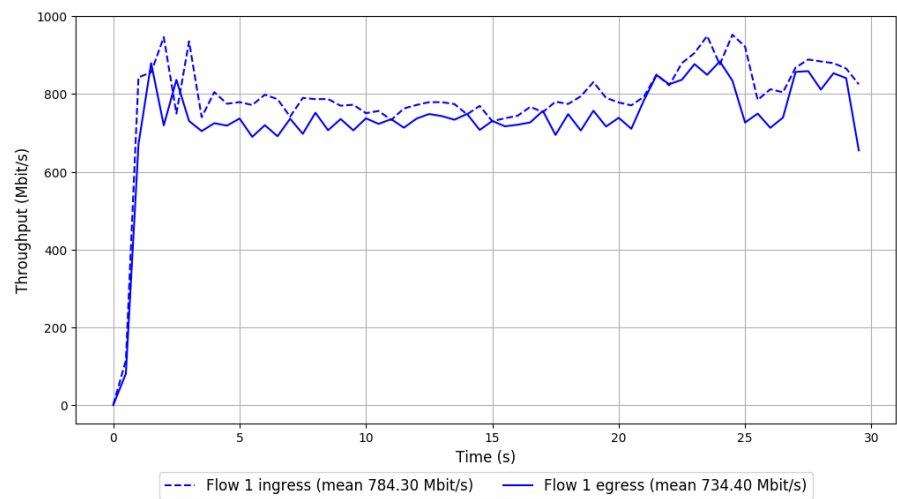
-- Flow 1:

Average throughput: 734.40 Mbit/s

95th percentile per-packet one-way delay: 150.357 ms

Loss rate: 6.70%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-03 08:30:06

End at: 2018-04-03 08:30:36

Below is generated by plot.py at 2018-04-03 13:25:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 705.52 Mbit/s

95th percentile per-packet one-way delay: 147.679 ms

Loss rate: 8.89%

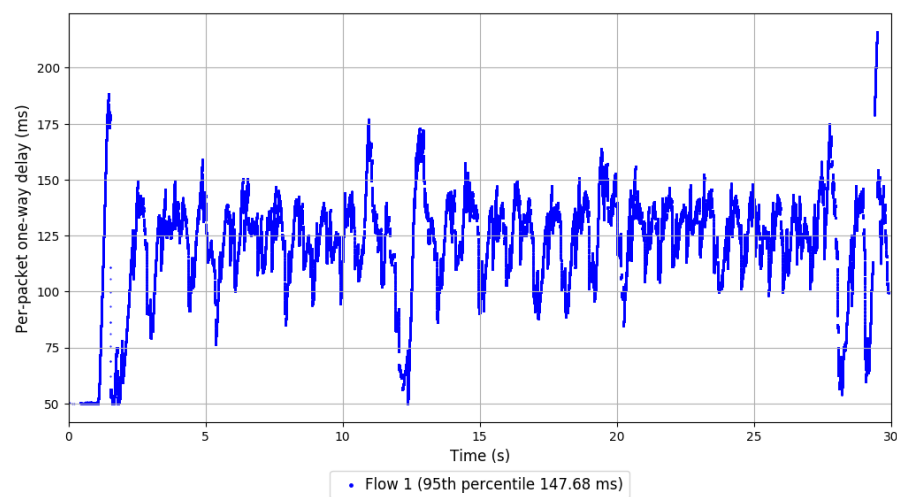
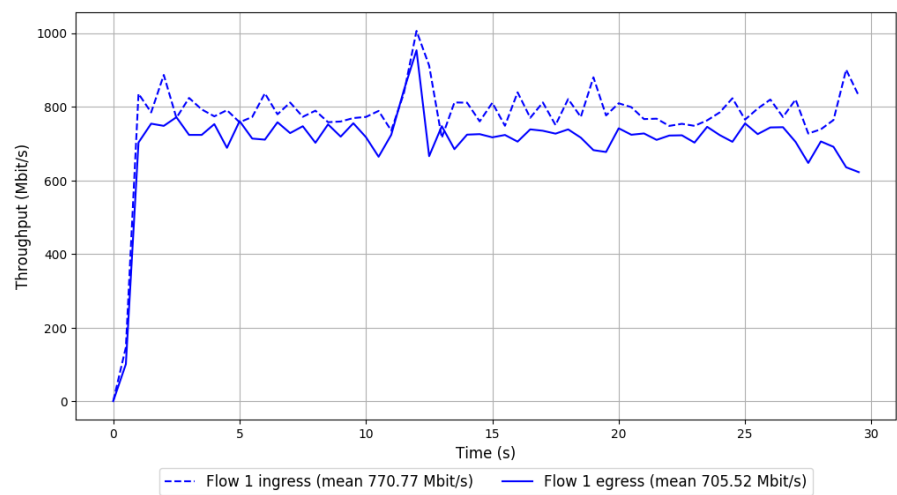
-- Flow 1:

Average throughput: 705.52 Mbit/s

95th percentile per-packet one-way delay: 147.679 ms

Loss rate: 8.89%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-03 08:44:42

End at: 2018-04-03 08:45:12

Below is generated by plot.py at 2018-04-03 13:27:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 712.14 Mbit/s

95th percentile per-packet one-way delay: 155.126 ms

Loss rate: 9.10%

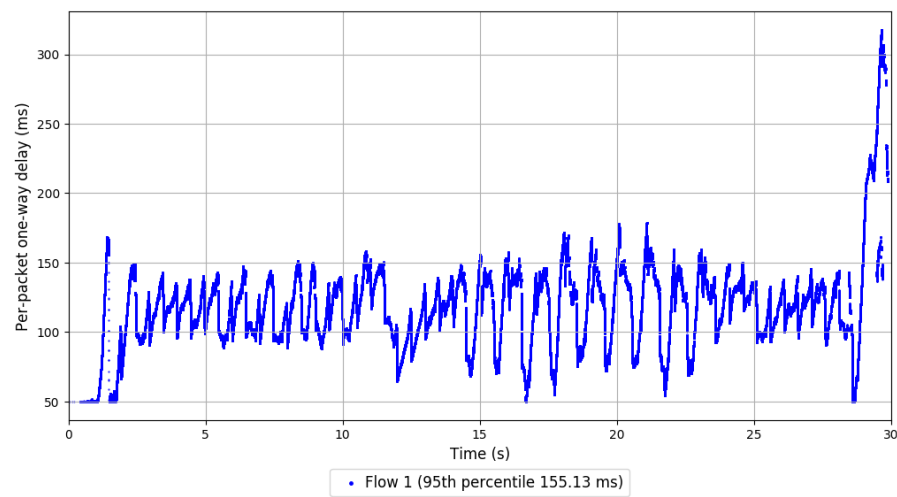
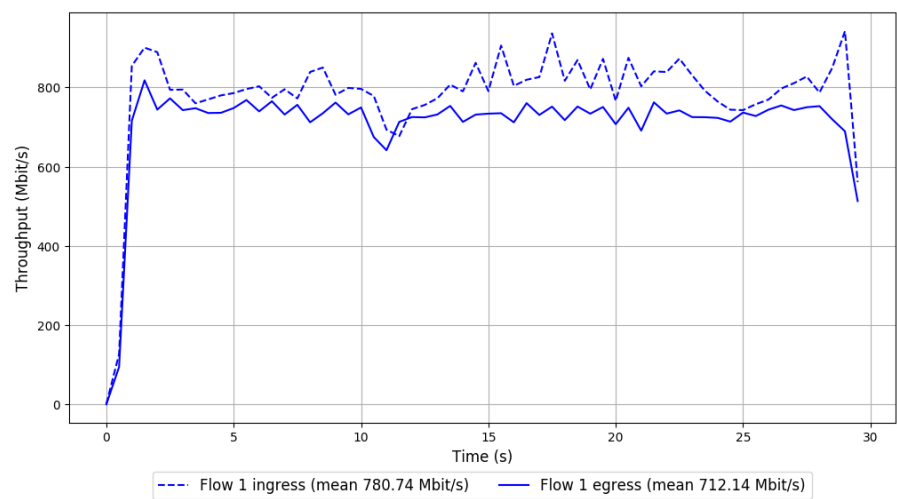
-- Flow 1:

Average throughput: 712.14 Mbit/s

95th percentile per-packet one-way delay: 155.126 ms

Loss rate: 9.10%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-03 08:59:31

End at: 2018-04-03 09:00:01

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 801.21 Mbit/s

95th percentile per-packet one-way delay: 135.189 ms

Loss rate: 5.59%

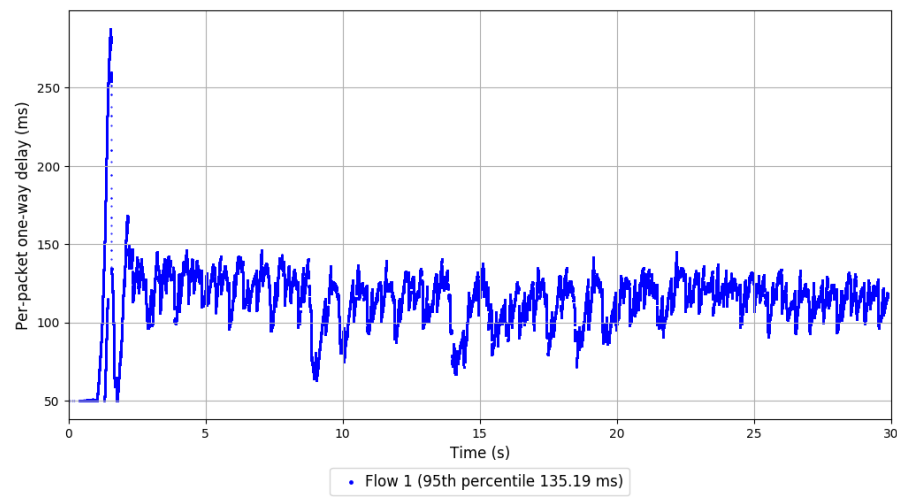
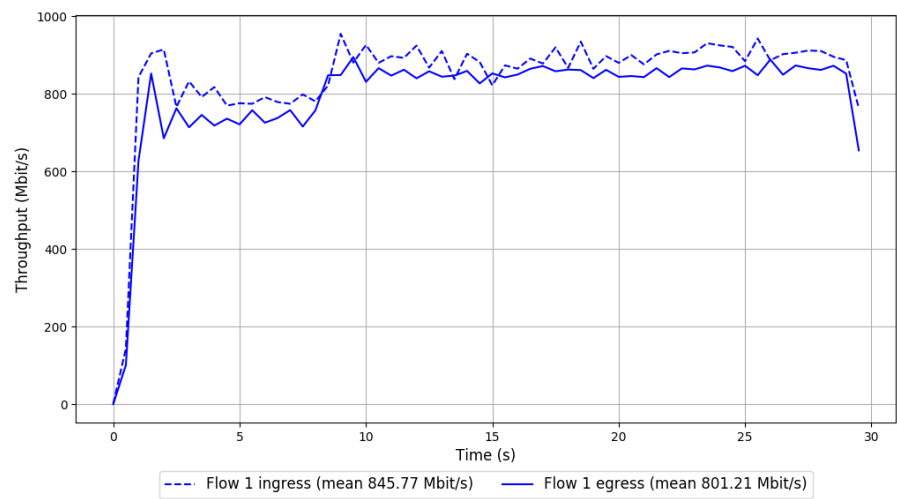
-- Flow 1:

Average throughput: 801.21 Mbit/s

95th percentile per-packet one-way delay: 135.189 ms

Loss rate: 5.59%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-03 09:14:00

End at: 2018-04-03 09:14:30

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 710.43 Mbit/s

95th percentile per-packet one-way delay: 243.753 ms

Loss rate: 8.41%

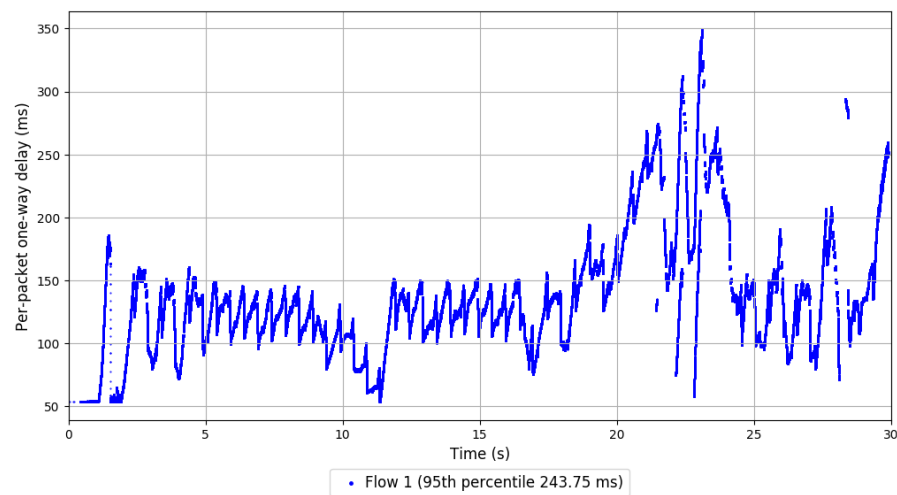
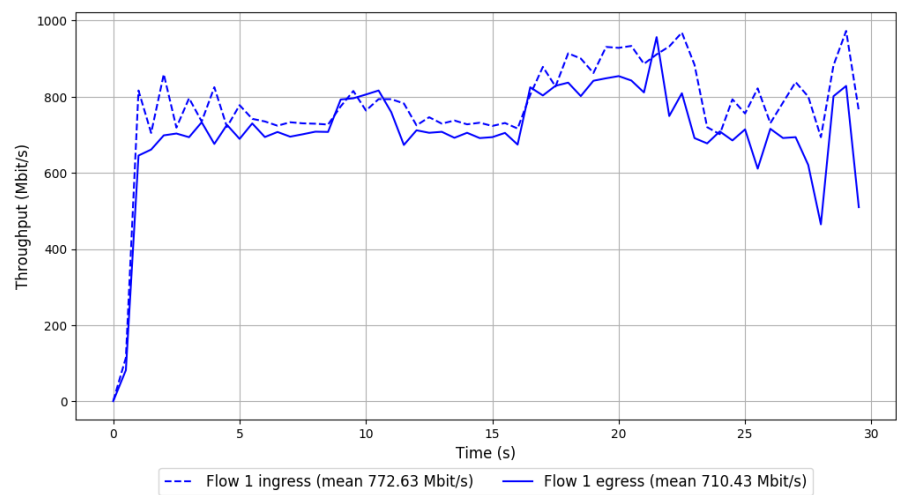
-- Flow 1:

Average throughput: 710.43 Mbit/s

95th percentile per-packet one-way delay: 243.753 ms

Loss rate: 8.41%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-03 09:28:37

End at: 2018-04-03 09:29:07

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.49 Mbit/s

95th percentile per-packet one-way delay: 151.598 ms

Loss rate: 6.63%

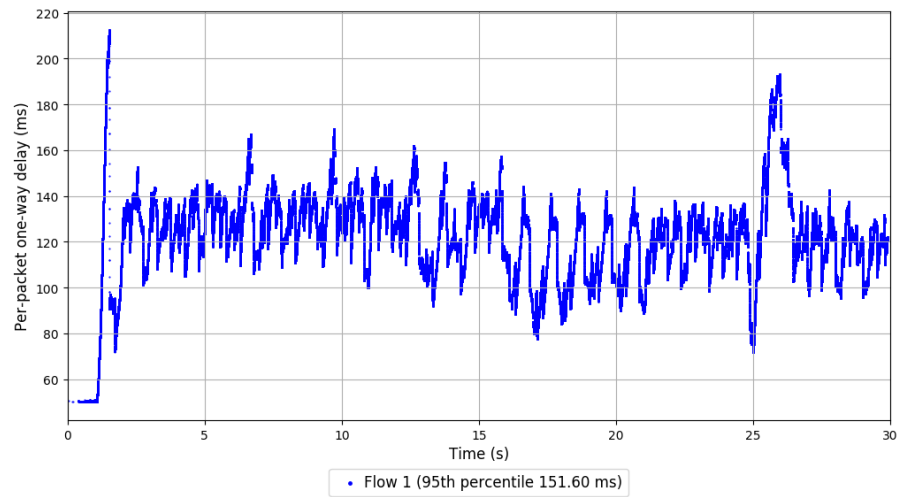
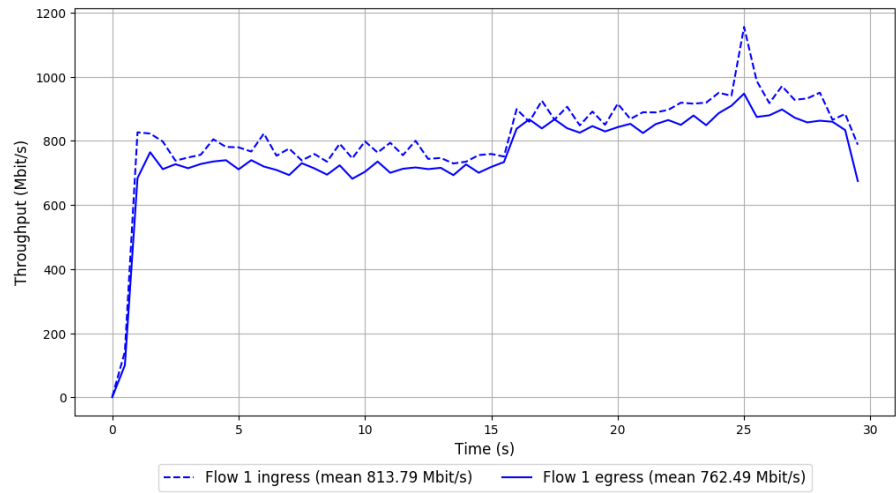
-- Flow 1:

Average throughput: 762.49 Mbit/s

95th percentile per-packet one-way delay: 151.598 ms

Loss rate: 6.63%

Run 10: Report of FillP — Data Link

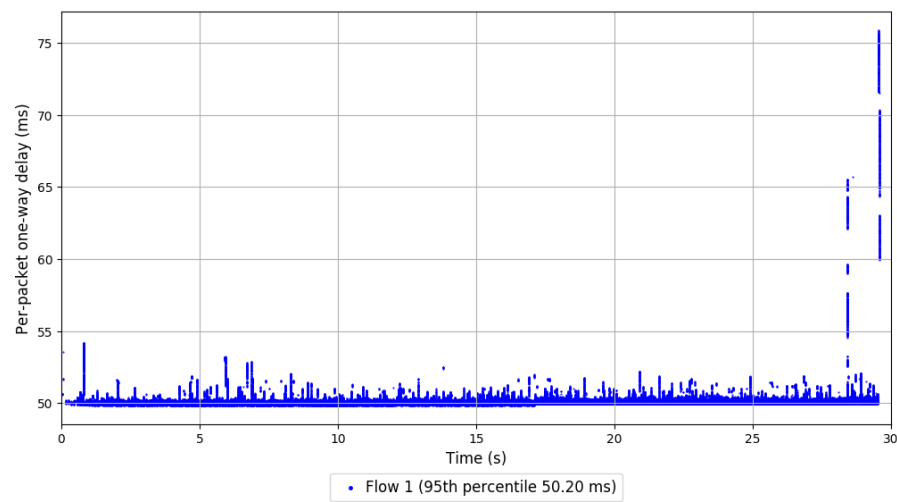
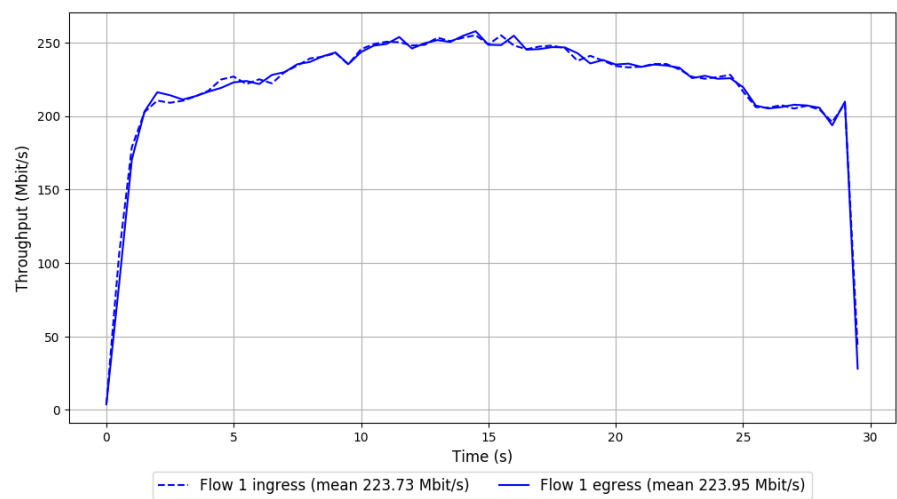


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-03 07:17:24
End at: 2018-04-03 07:17:54

# Below is generated by plot.py at 2018-04-03 13:34:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.95 Mbit/s
95th percentile per-packet one-way delay: 50.196 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 223.95 Mbit/s
95th percentile per-packet one-way delay: 50.196 ms
Loss rate: 0.25%
```

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

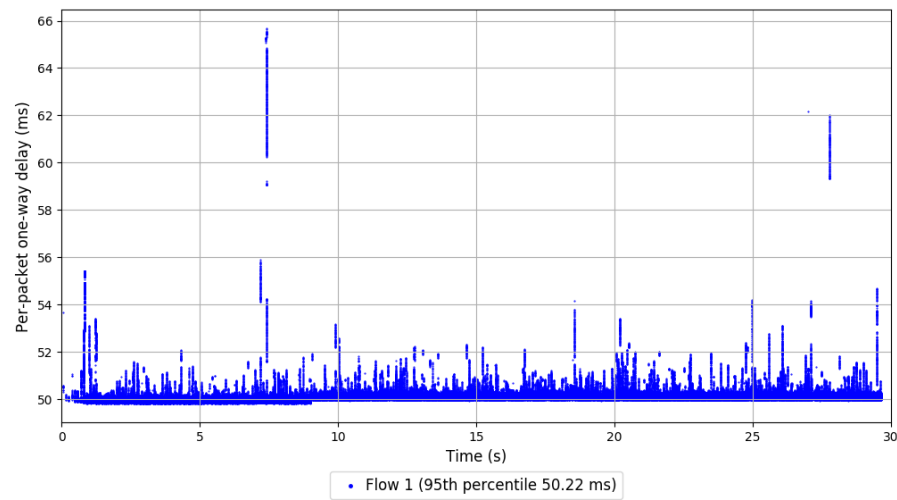
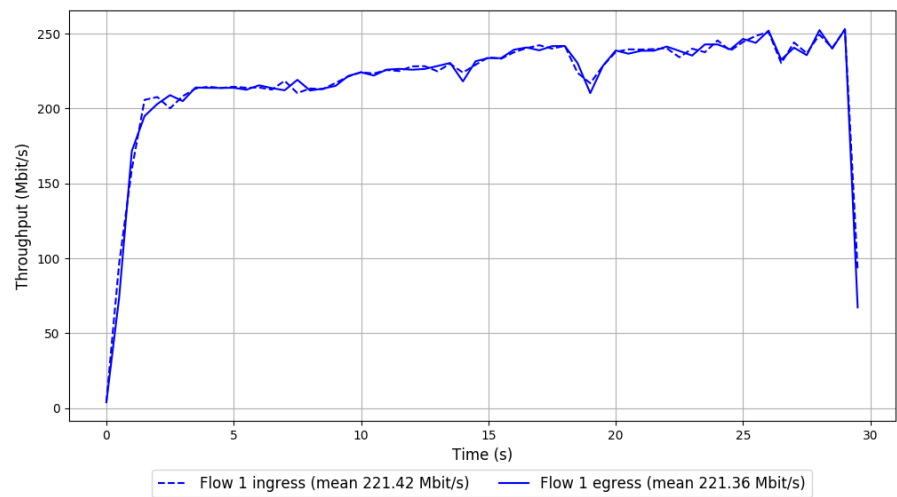


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-03 07:31:42
End at: 2018-04-03 07:32:12

# Below is generated by plot.py at 2018-04-03 13:34:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.36 Mbit/s
95th percentile per-packet one-way delay: 50.221 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 221.36 Mbit/s
95th percentile per-packet one-way delay: 50.221 ms
Loss rate: 0.38%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-03 07:45:56

End at: 2018-04-03 07:46:26

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.72 Mbit/s

95th percentile per-packet one-way delay: 50.095 ms

Loss rate: 0.33%

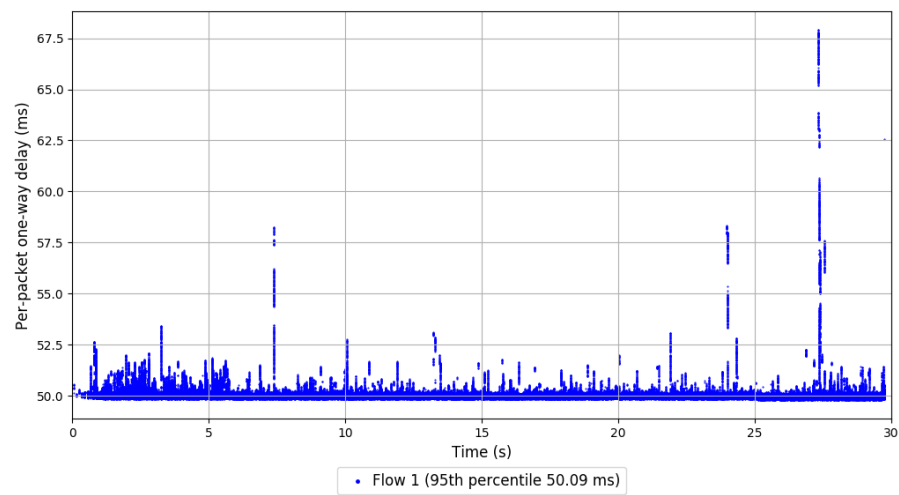
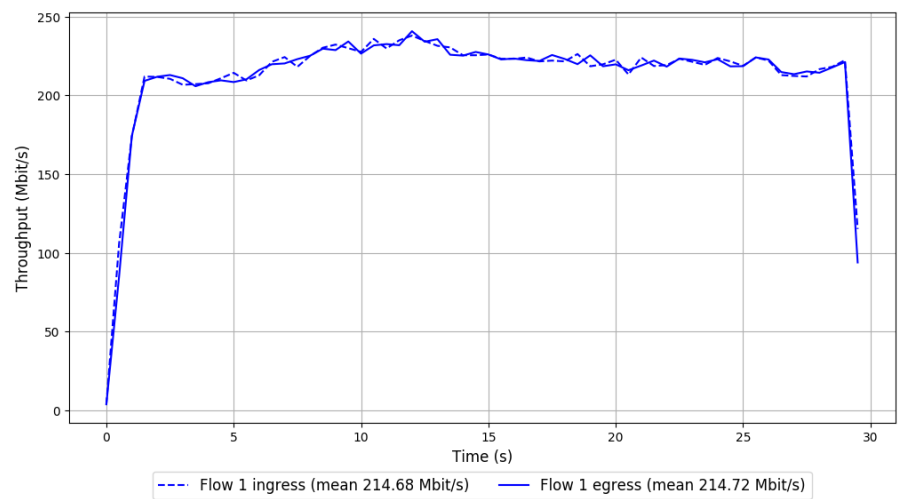
-- Flow 1:

Average throughput: 214.72 Mbit/s

95th percentile per-packet one-way delay: 50.095 ms

Loss rate: 0.33%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-03 08:00:17

End at: 2018-04-03 08:00:47

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.15 Mbit/s

95th percentile per-packet one-way delay: 50.125 ms

Loss rate: 0.37%

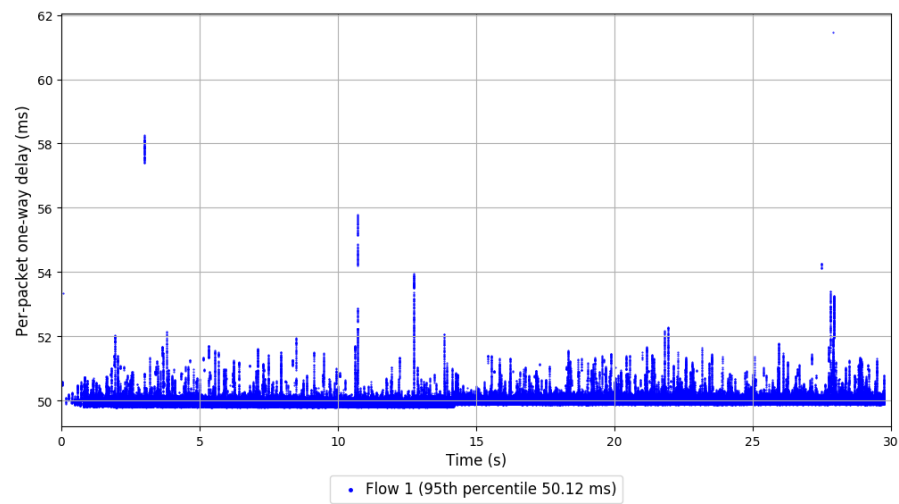
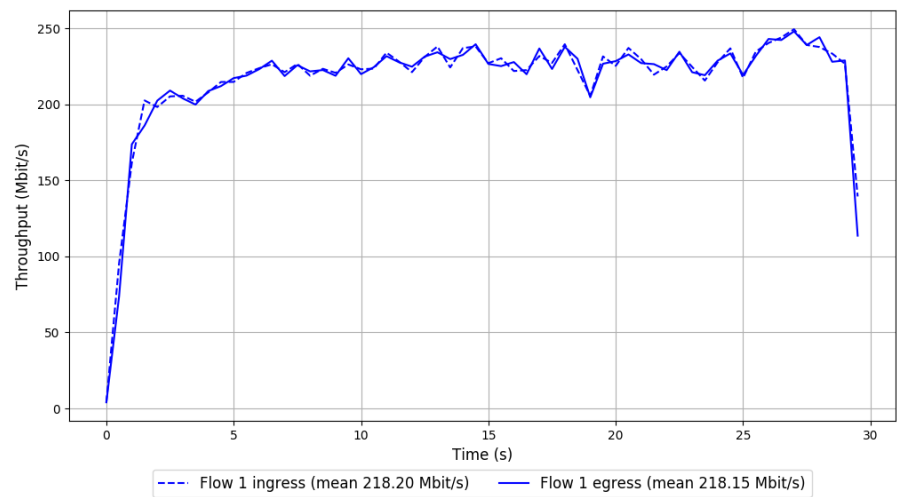
-- Flow 1:

Average throughput: 218.15 Mbit/s

95th percentile per-packet one-way delay: 50.125 ms

Loss rate: 0.37%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-03 08:14:20

End at: 2018-04-03 08:14:50

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.23 Mbit/s

95th percentile per-packet one-way delay: 50.157 ms

Loss rate: 0.34%

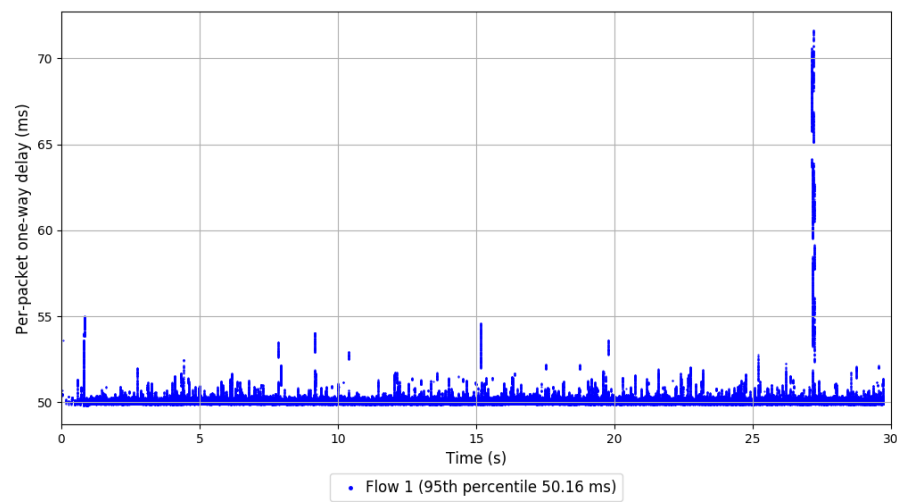
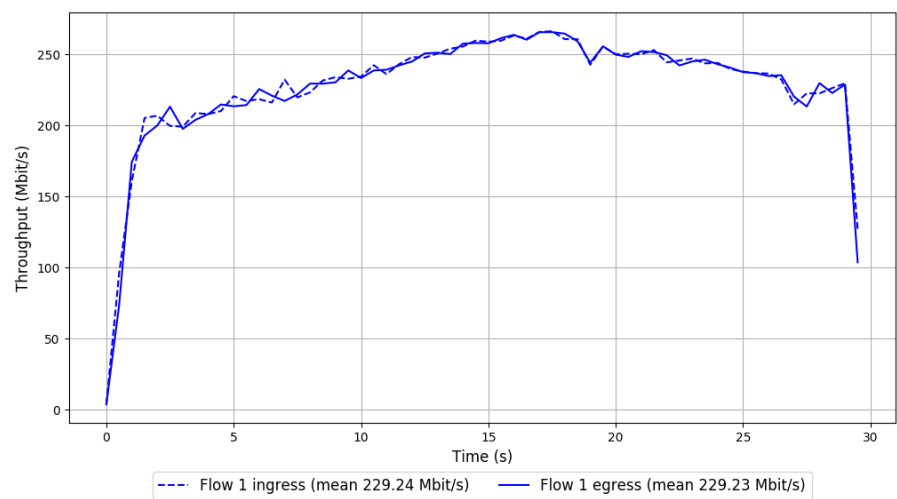
-- Flow 1:

Average throughput: 229.23 Mbit/s

95th percentile per-packet one-way delay: 50.157 ms

Loss rate: 0.34%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-03 08:28:37

End at: 2018-04-03 08:29:07

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.51 Mbit/s

95th percentile per-packet one-way delay: 50.078 ms

Loss rate: 0.40%

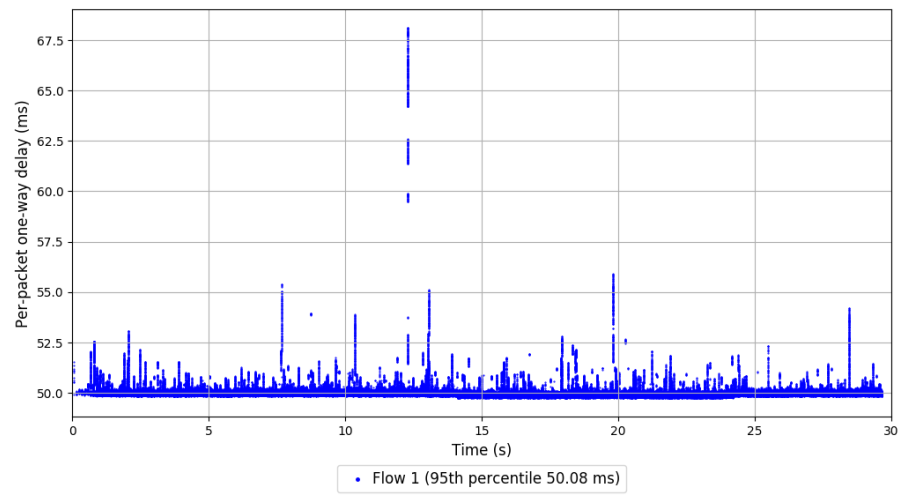
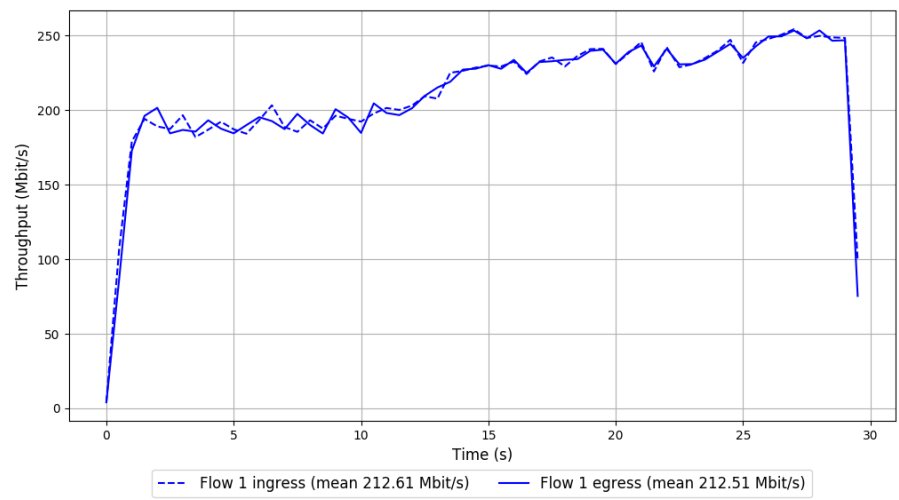
-- Flow 1:

Average throughput: 212.51 Mbit/s

95th percentile per-packet one-way delay: 50.078 ms

Loss rate: 0.40%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-03 08:43:13

End at: 2018-04-03 08:43:43

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.00 Mbit/s

95th percentile per-packet one-way delay: 50.153 ms

Loss rate: 0.38%

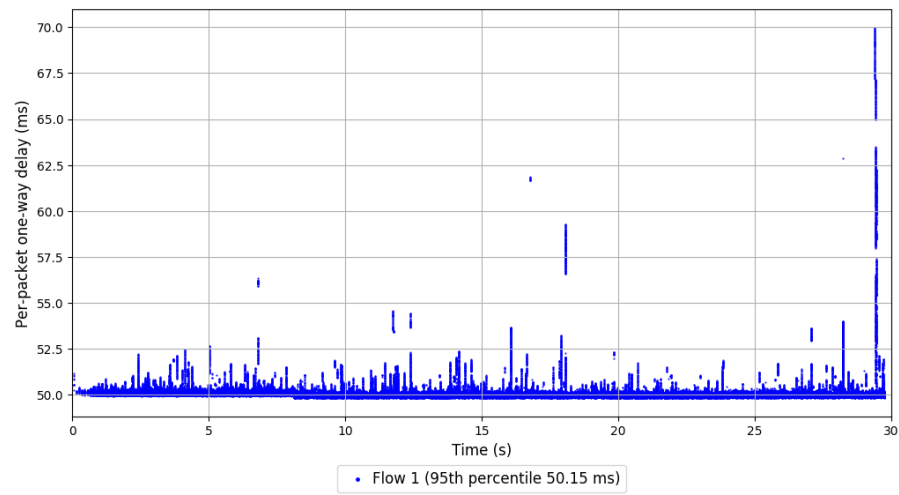
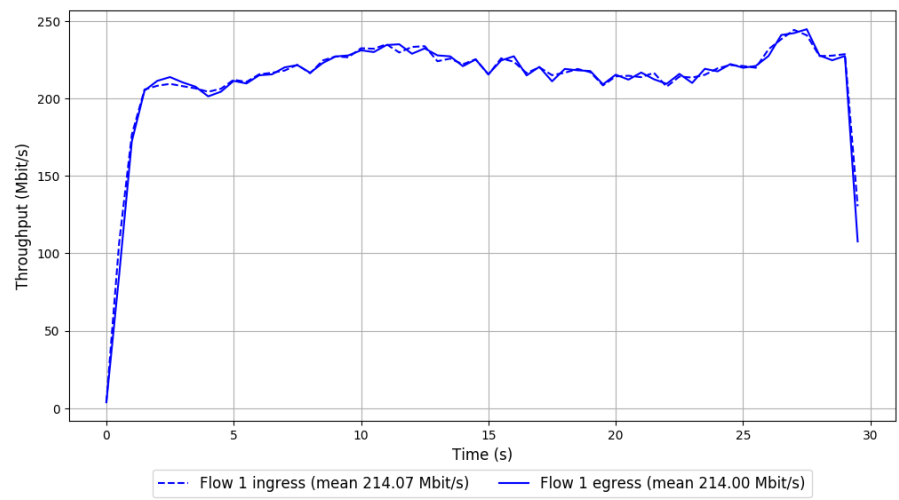
-- Flow 1:

Average throughput: 214.00 Mbit/s

95th percentile per-packet one-way delay: 50.153 ms

Loss rate: 0.38%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-03 08:58:02

End at: 2018-04-03 08:58:32

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.47 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 0.35%

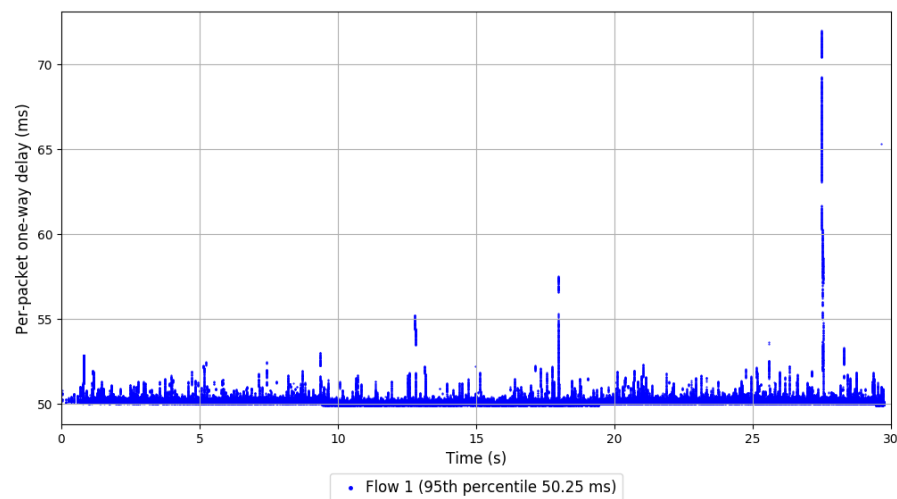
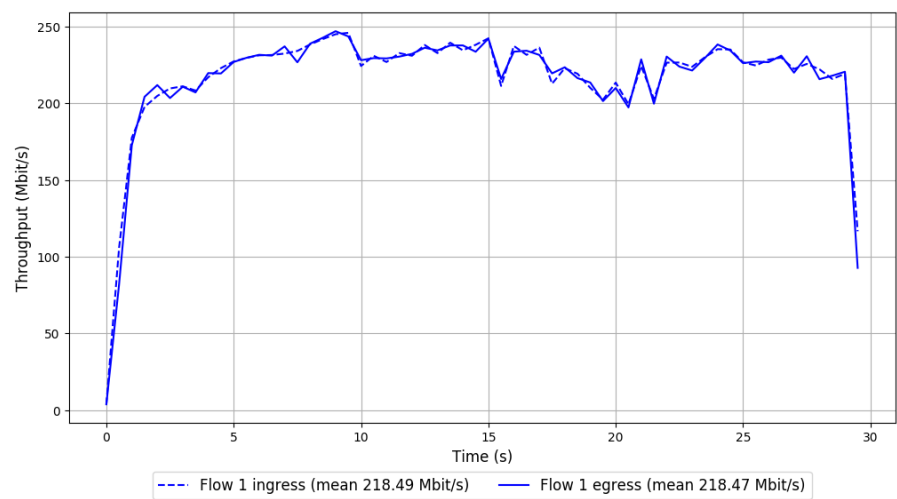
-- Flow 1:

Average throughput: 218.47 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 0.35%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-03 09:12:30

End at: 2018-04-03 09:13:00

Below is generated by plot.py at 2018-04-03 13:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.42 Mbit/s

95th percentile per-packet one-way delay: 50.298 ms

Loss rate: 0.30%

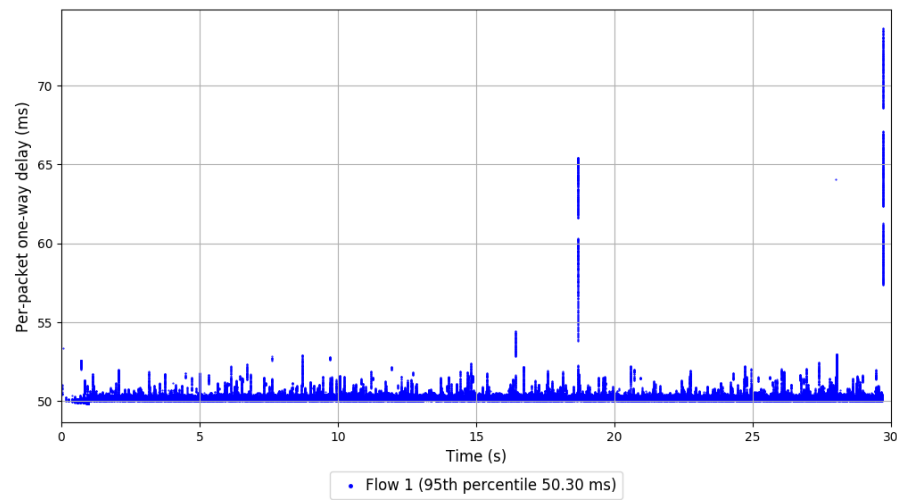
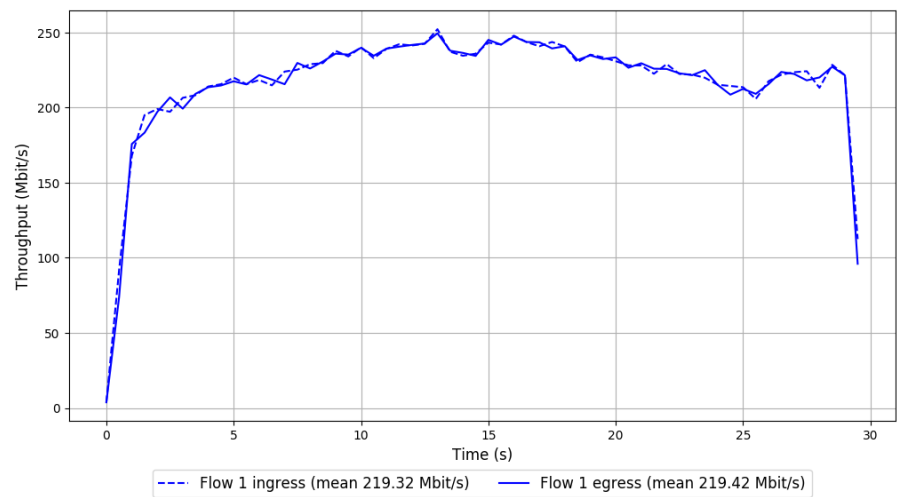
-- Flow 1:

Average throughput: 219.42 Mbit/s

95th percentile per-packet one-way delay: 50.298 ms

Loss rate: 0.30%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-03 09:27:08

End at: 2018-04-03 09:27:38

Below is generated by plot.py at 2018-04-03 13:34:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.78 Mbit/s

95th percentile per-packet one-way delay: 50.243 ms

Loss rate: 0.34%

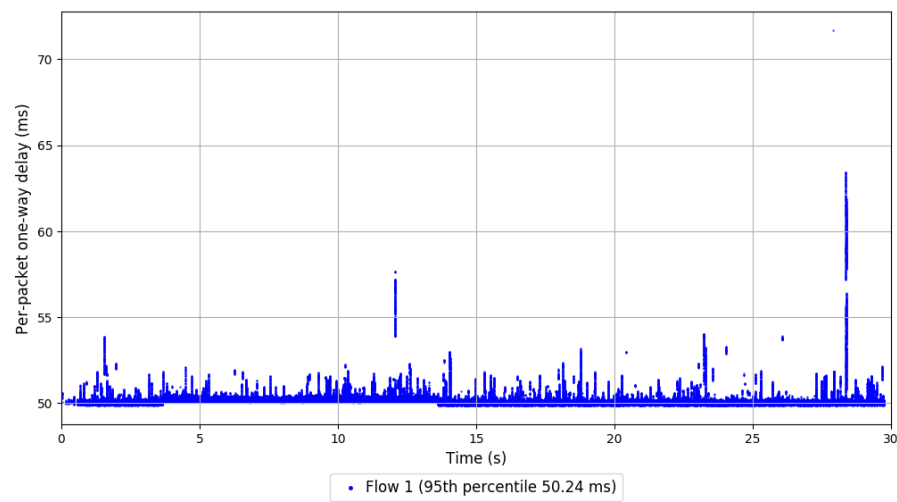
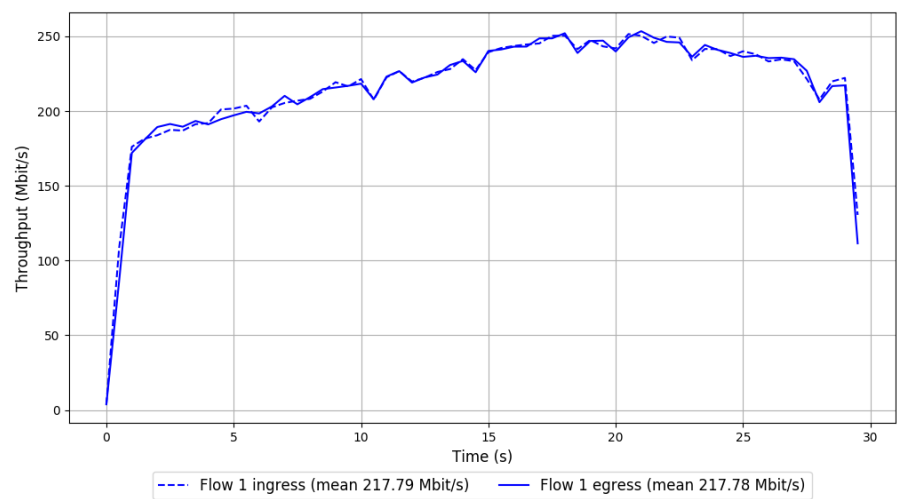
-- Flow 1:

Average throughput: 217.78 Mbit/s

95th percentile per-packet one-way delay: 50.243 ms

Loss rate: 0.34%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-03 07:24:00

End at: 2018-04-03 07:24:30

Below is generated by plot.py at 2018-04-03 13:38:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.42 Mbit/s

95th percentile per-packet one-way delay: 63.324 ms

Loss rate: 0.38%

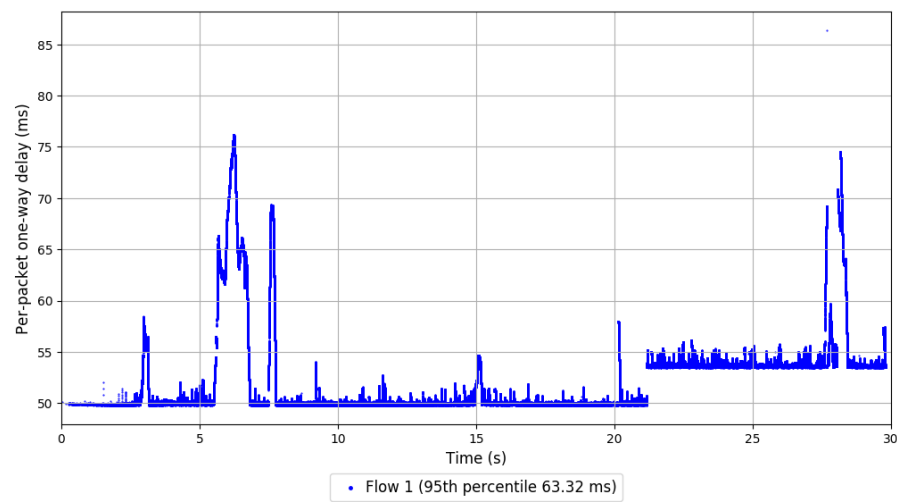
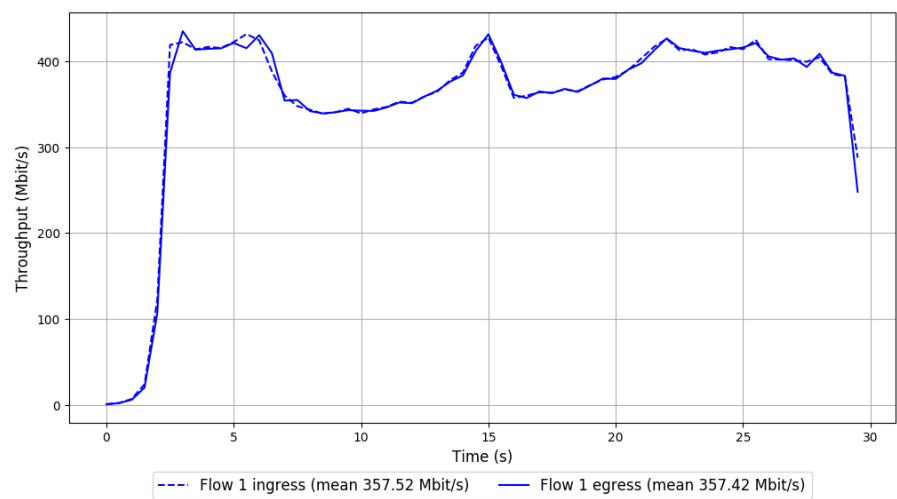
-- Flow 1:

Average throughput: 357.42 Mbit/s

95th percentile per-packet one-way delay: 63.324 ms

Loss rate: 0.38%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-03 07:38:18

End at: 2018-04-03 07:38:48

Below is generated by plot.py at 2018-04-03 13:38:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 335.19 Mbit/s

95th percentile per-packet one-way delay: 57.136 ms

Loss rate: 0.42%

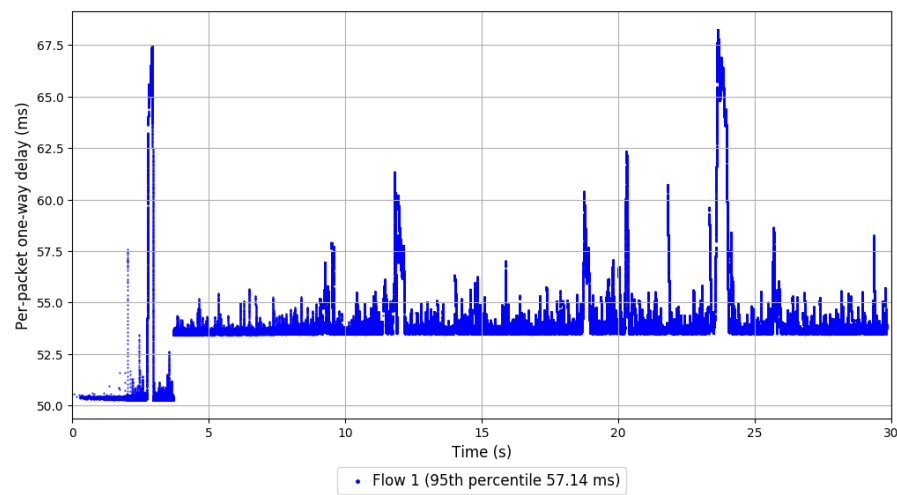
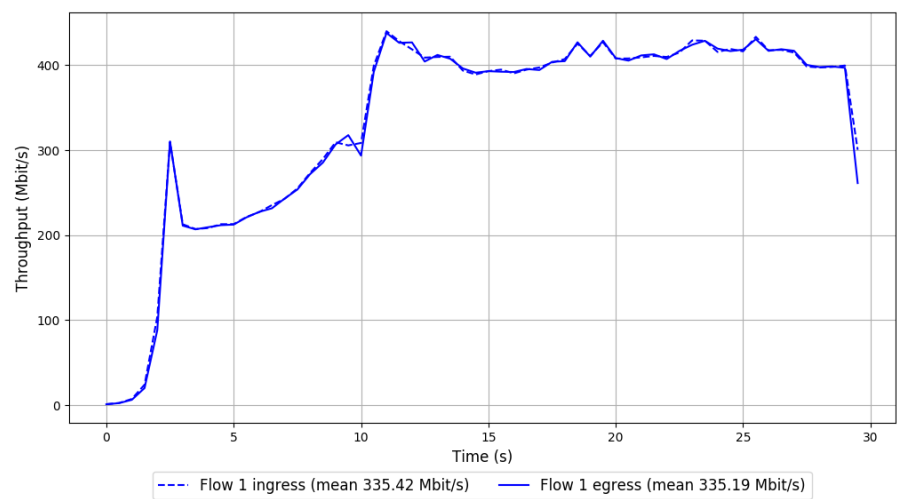
-- Flow 1:

Average throughput: 335.19 Mbit/s

95th percentile per-packet one-way delay: 57.136 ms

Loss rate: 0.42%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-03 07:52:31

End at: 2018-04-03 07:53:01

Below is generated by plot.py at 2018-04-03 13:40:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.92 Mbit/s

95th percentile per-packet one-way delay: 99.114 ms

Loss rate: 0.35%

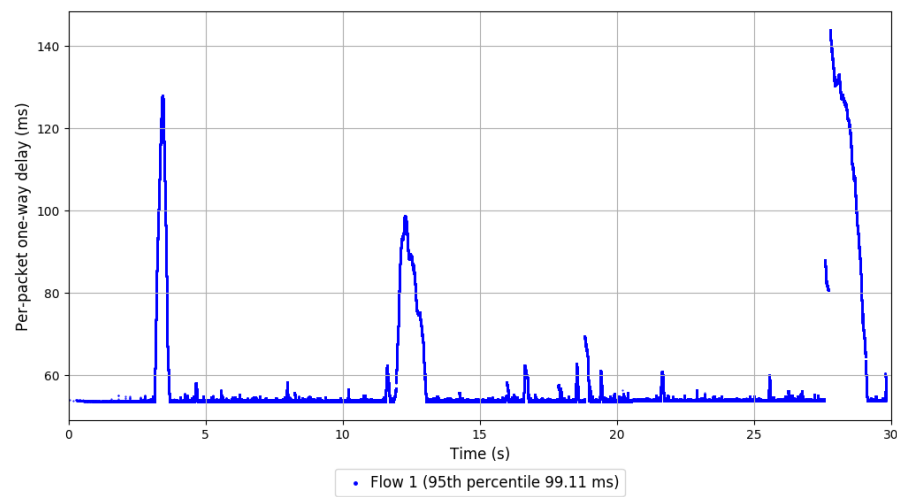
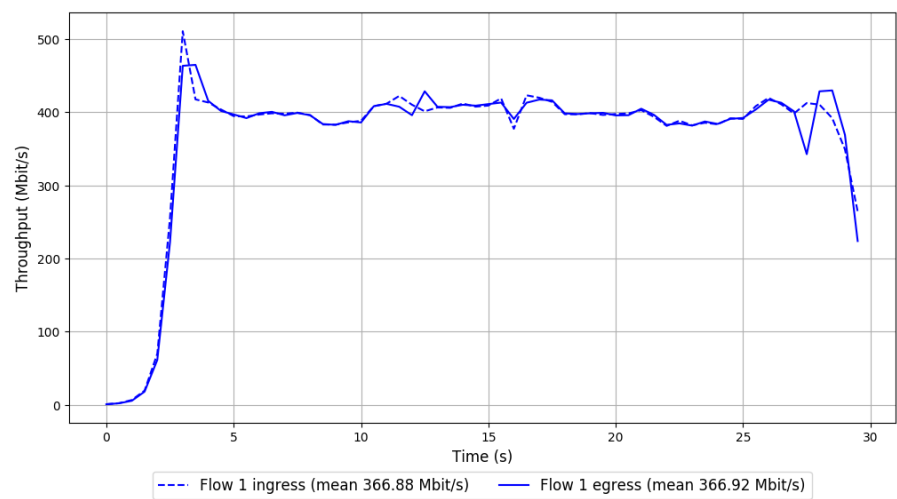
-- Flow 1:

Average throughput: 366.92 Mbit/s

95th percentile per-packet one-way delay: 99.114 ms

Loss rate: 0.35%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-03 08:06:38

End at: 2018-04-03 08:07:08

Below is generated by plot.py at 2018-04-03 13:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.55 Mbit/s

95th percentile per-packet one-way delay: 59.081 ms

Loss rate: 0.42%

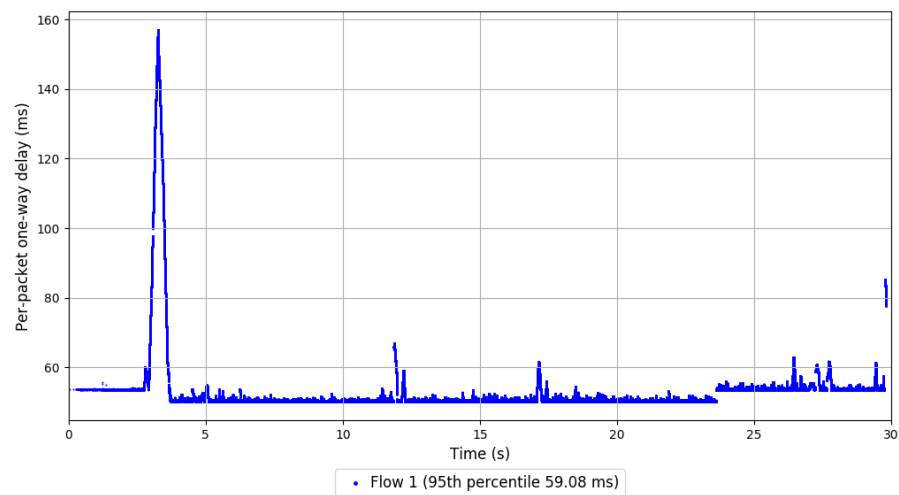
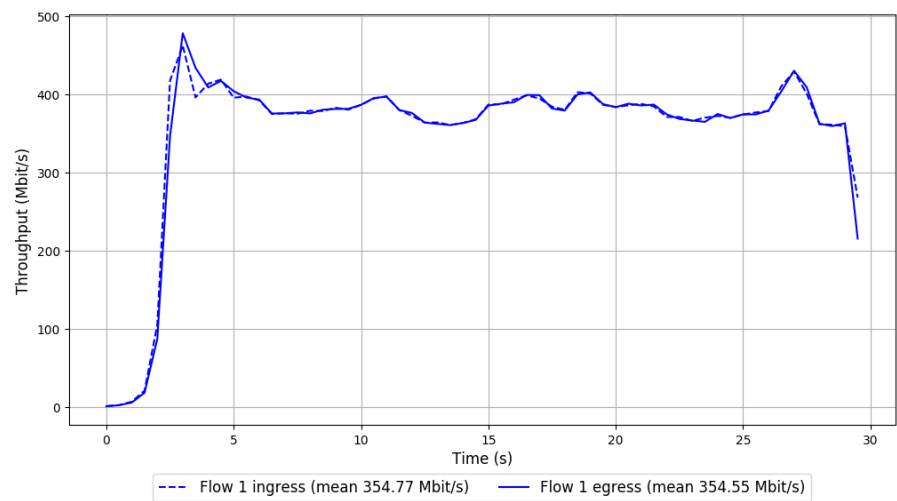
-- Flow 1:

Average throughput: 354.55 Mbit/s

95th percentile per-packet one-way delay: 59.081 ms

Loss rate: 0.42%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-03 08:20:57

End at: 2018-04-03 08:21:27

Below is generated by plot.py at 2018-04-03 13:41:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 293.28 Mbit/s

95th percentile per-packet one-way delay: 51.934 ms

Loss rate: 0.41%

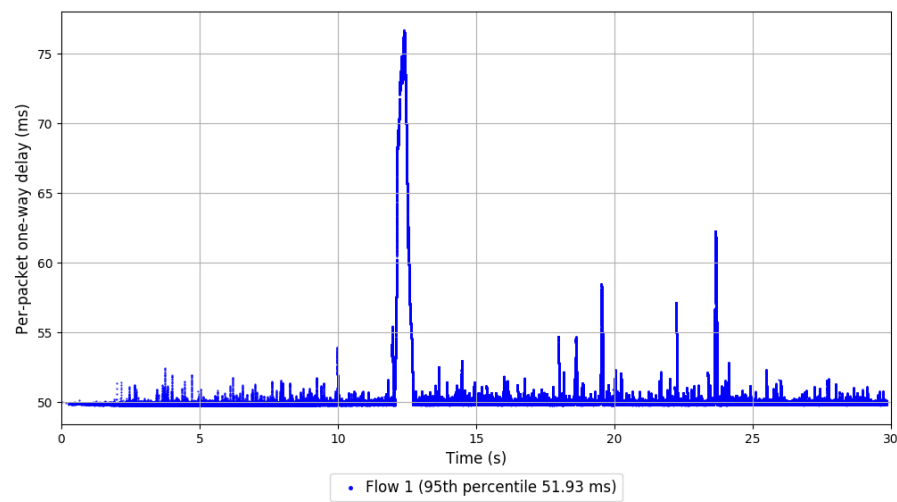
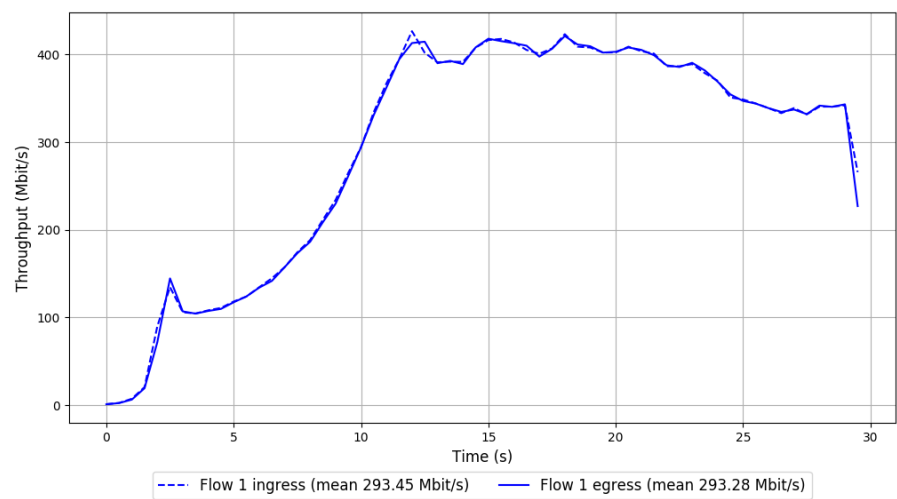
-- Flow 1:

Average throughput: 293.28 Mbit/s

95th percentile per-packet one-way delay: 51.934 ms

Loss rate: 0.41%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-03 08:35:08

End at: 2018-04-03 08:35:38

Below is generated by plot.py at 2018-04-03 13:41:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.44 Mbit/s

95th percentile per-packet one-way delay: 74.765 ms

Loss rate: 0.38%

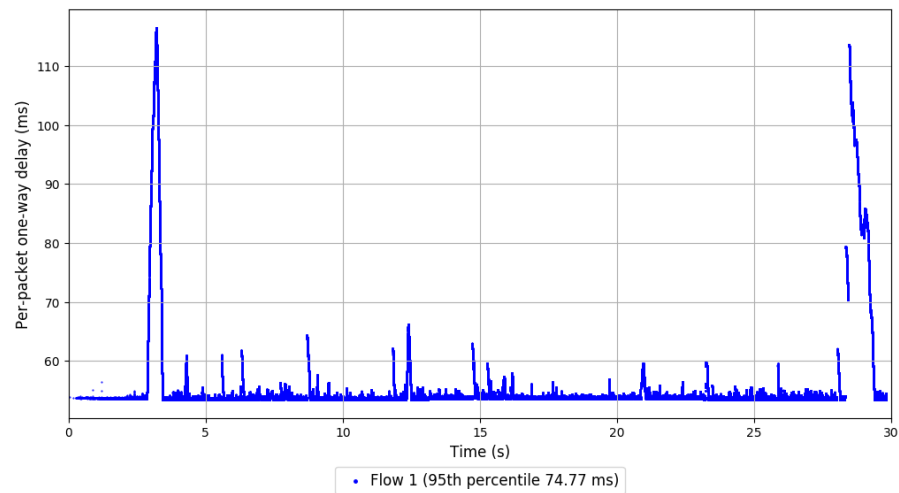
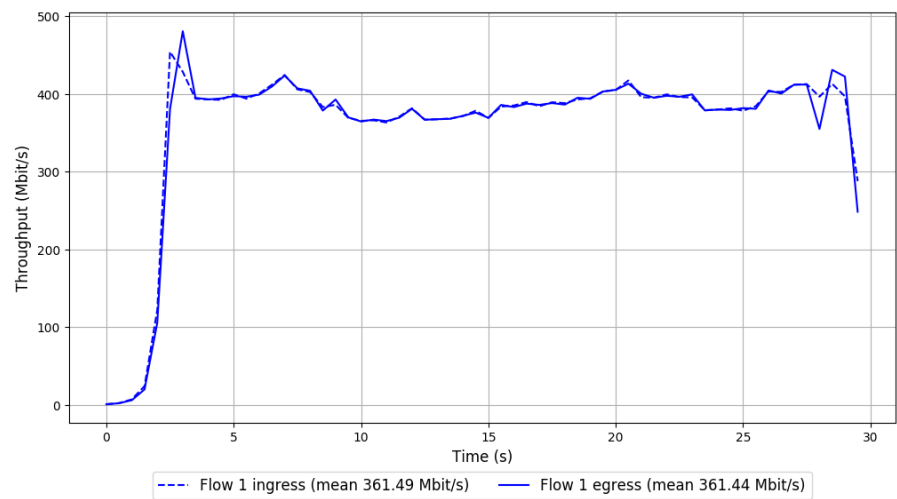
-- Flow 1:

Average throughput: 361.44 Mbit/s

95th percentile per-packet one-way delay: 74.765 ms

Loss rate: 0.38%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-03 08:49:47

End at: 2018-04-03 08:50:17

Below is generated by plot.py at 2018-04-03 13:42:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.39 Mbit/s

95th percentile per-packet one-way delay: 57.287 ms

Loss rate: 0.36%

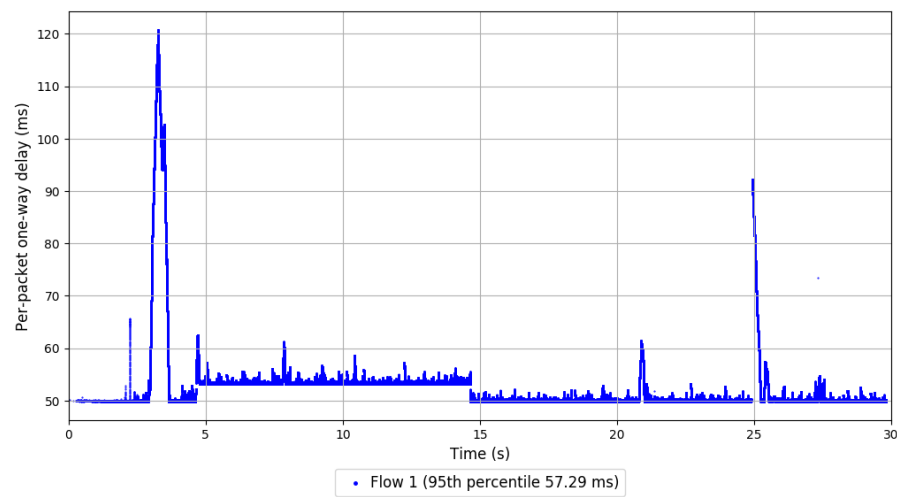
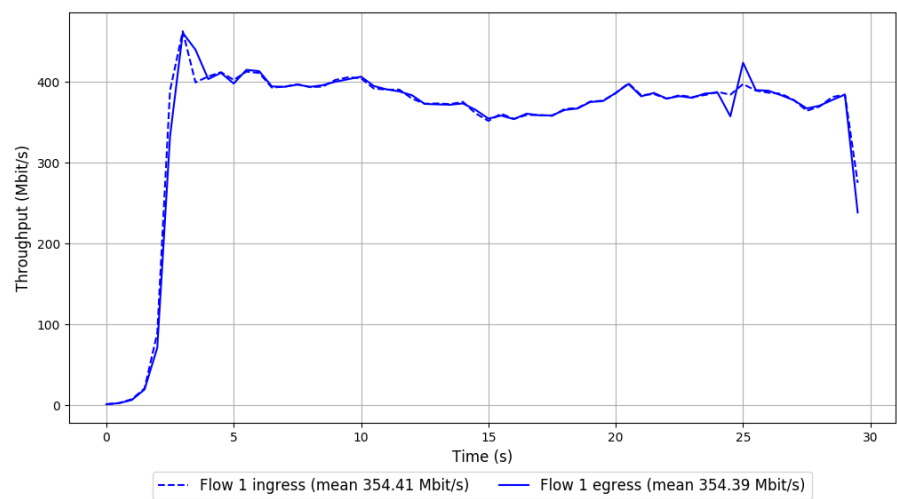
-- Flow 1:

Average throughput: 354.39 Mbit/s

95th percentile per-packet one-way delay: 57.287 ms

Loss rate: 0.36%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-03 09:04:40

End at: 2018-04-03 09:05:10

Below is generated by plot.py at 2018-04-03 13:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.24 Mbit/s

95th percentile per-packet one-way delay: 56.736 ms

Loss rate: 0.38%

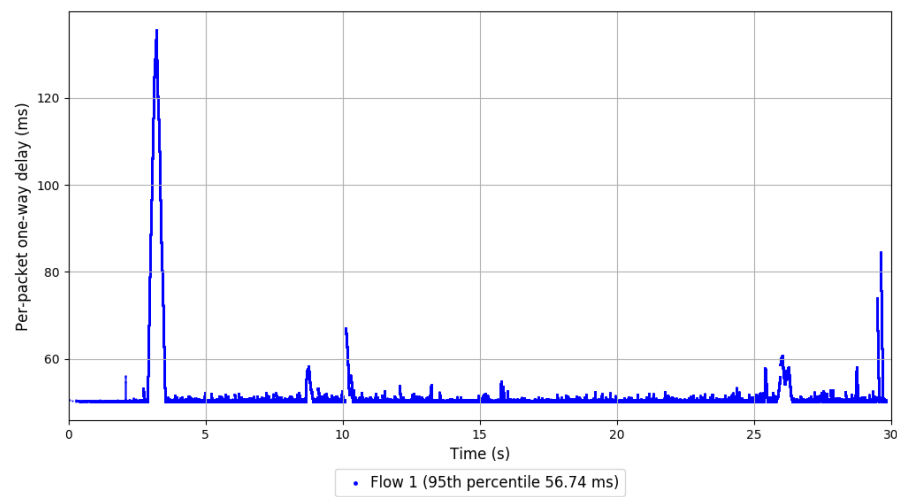
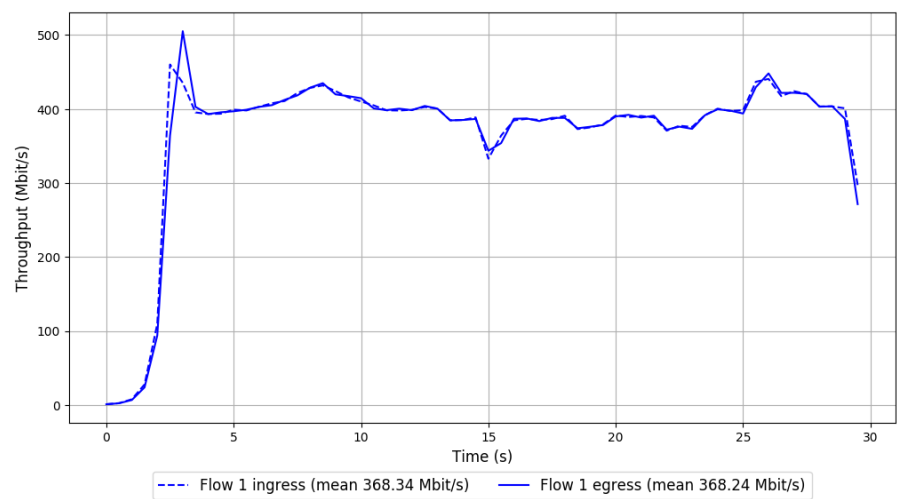
-- Flow 1:

Average throughput: 368.24 Mbit/s

95th percentile per-packet one-way delay: 56.736 ms

Loss rate: 0.38%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-03 09:19:05

End at: 2018-04-03 09:19:35

Below is generated by plot.py at 2018-04-03 13:46:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.88 Mbit/s

95th percentile per-packet one-way delay: 67.741 ms

Loss rate: 0.29%

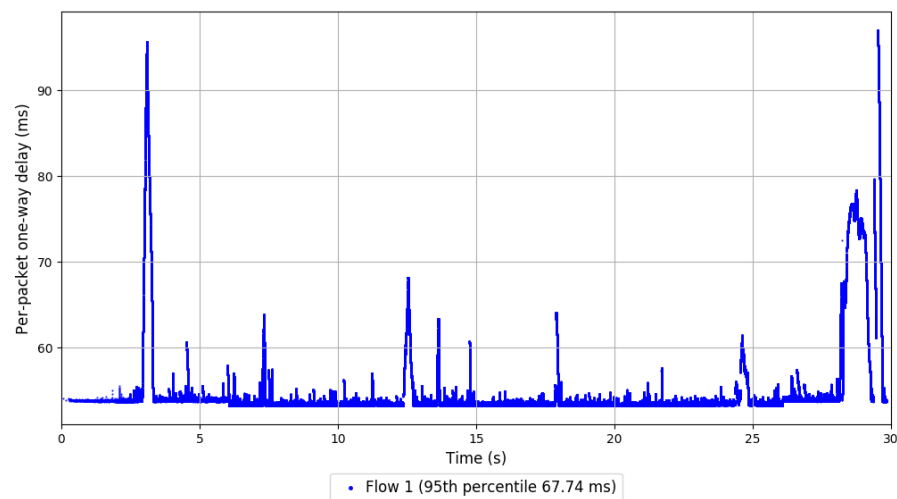
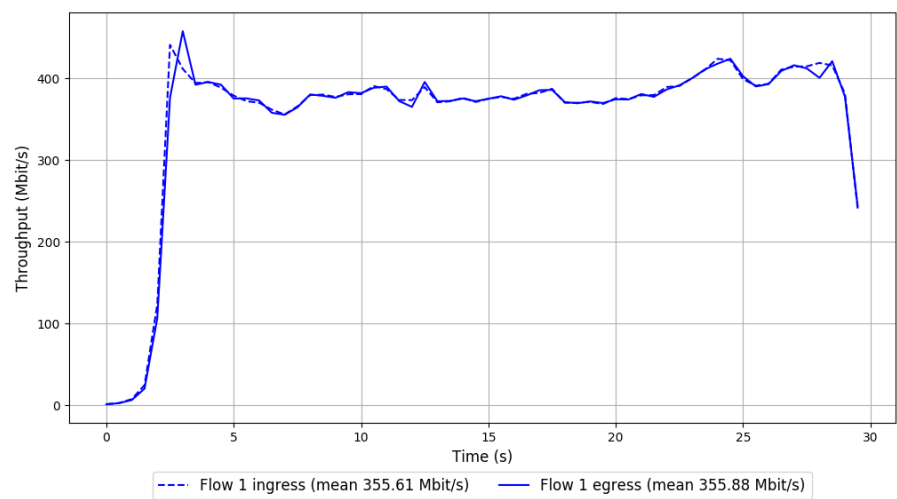
-- Flow 1:

Average throughput: 355.88 Mbit/s

95th percentile per-packet one-way delay: 67.741 ms

Loss rate: 0.29%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-03 09:33:43

End at: 2018-04-03 09:34:13

Below is generated by plot.py at 2018-04-03 13:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.59 Mbit/s

95th percentile per-packet one-way delay: 55.325 ms

Loss rate: 0.46%

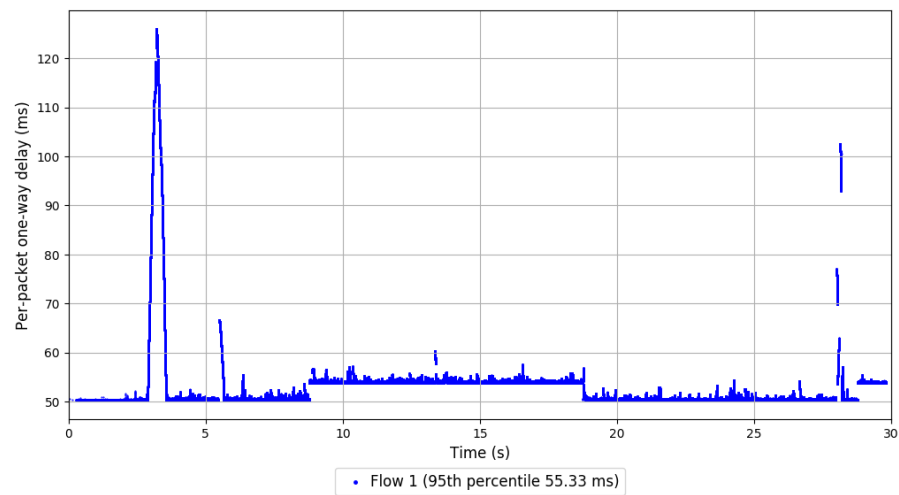
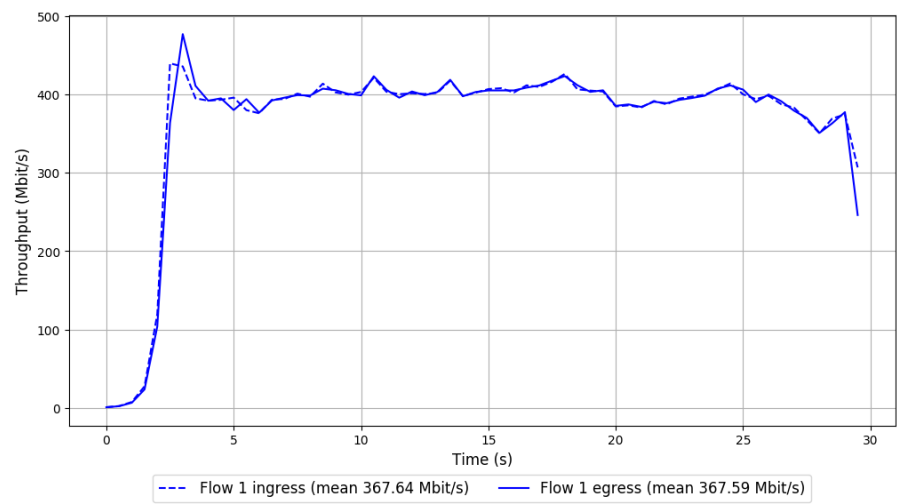
-- Flow 1:

Average throughput: 367.59 Mbit/s

95th percentile per-packet one-way delay: 55.325 ms

Loss rate: 0.46%

Run 10: Report of Vivace-latency — Data Link

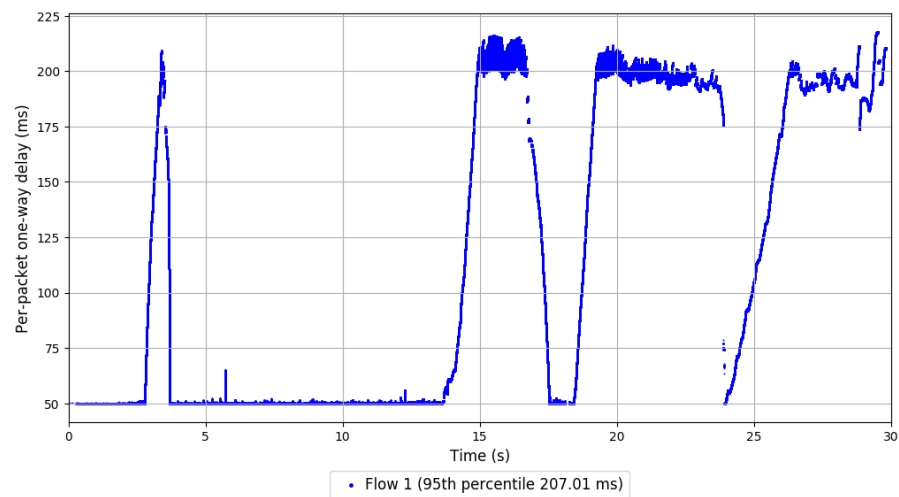
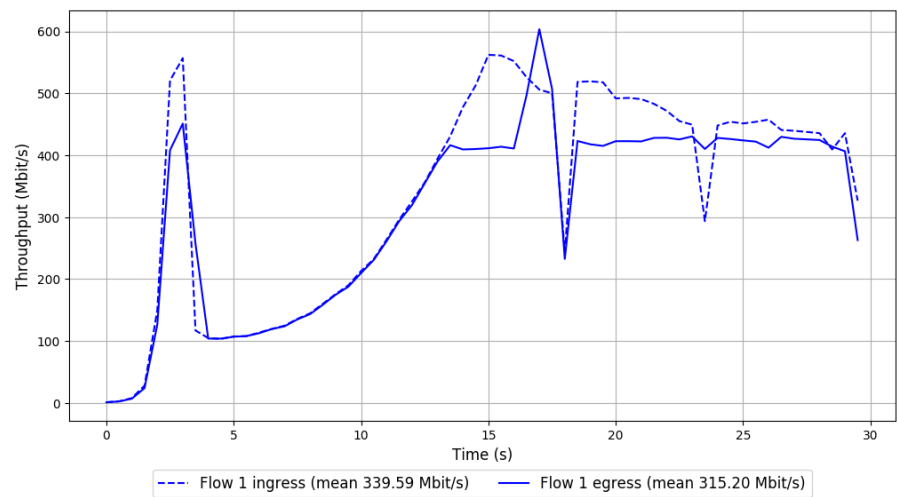


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-03 07:30:44
End at: 2018-04-03 07:31:14

# Below is generated by plot.py at 2018-04-03 13:46:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 315.20 Mbit/s
95th percentile per-packet one-way delay: 207.007 ms
Loss rate: 7.51%
-- Flow 1:
Average throughput: 315.20 Mbit/s
95th percentile per-packet one-way delay: 207.007 ms
Loss rate: 7.51%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-03 07:44:55

End at: 2018-04-03 07:45:25

Below is generated by plot.py at 2018-04-03 13:48:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.92 Mbit/s

95th percentile per-packet one-way delay: 202.023 ms

Loss rate: 2.48%

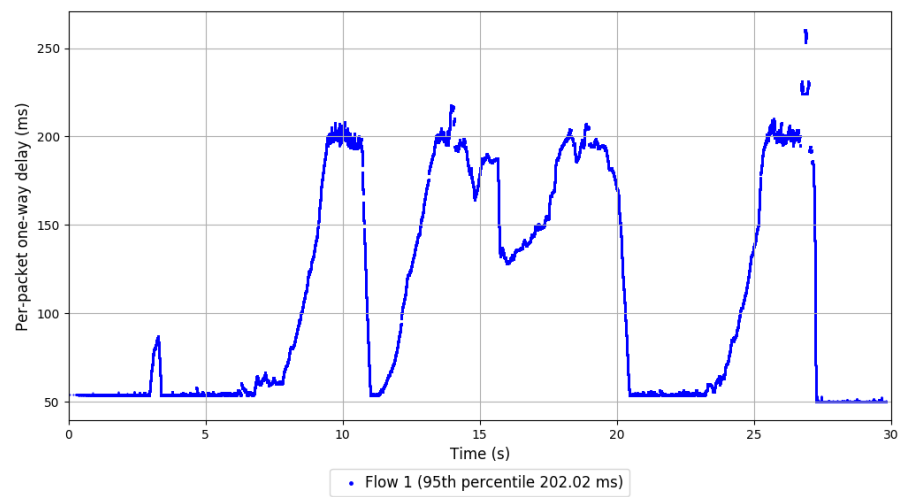
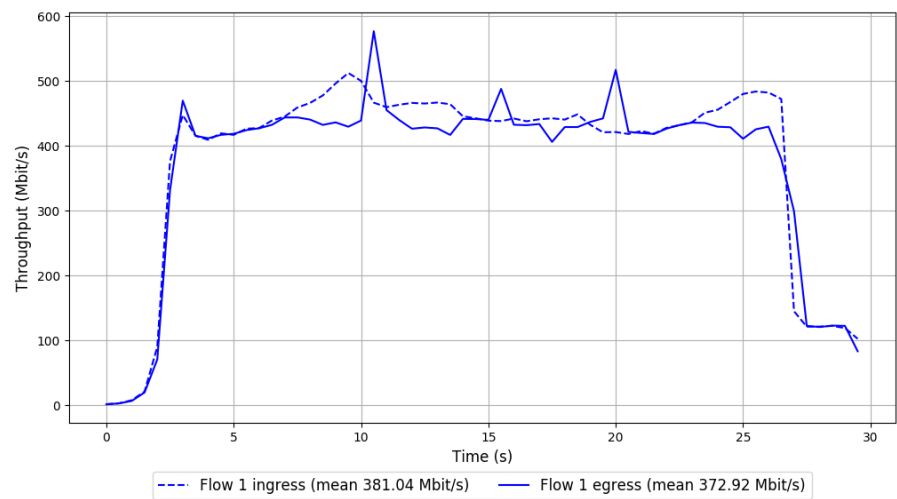
-- Flow 1:

Average throughput: 372.92 Mbit/s

95th percentile per-packet one-way delay: 202.023 ms

Loss rate: 2.48%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-03 07:59:16

End at: 2018-04-03 07:59:46

Below is generated by plot.py at 2018-04-03 13:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.63 Mbit/s

95th percentile per-packet one-way delay: 198.570 ms

Loss rate: 3.15%

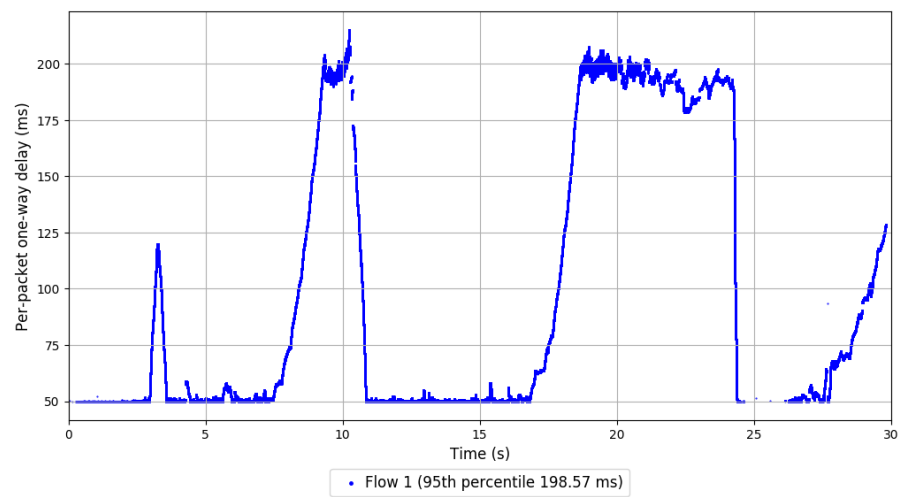
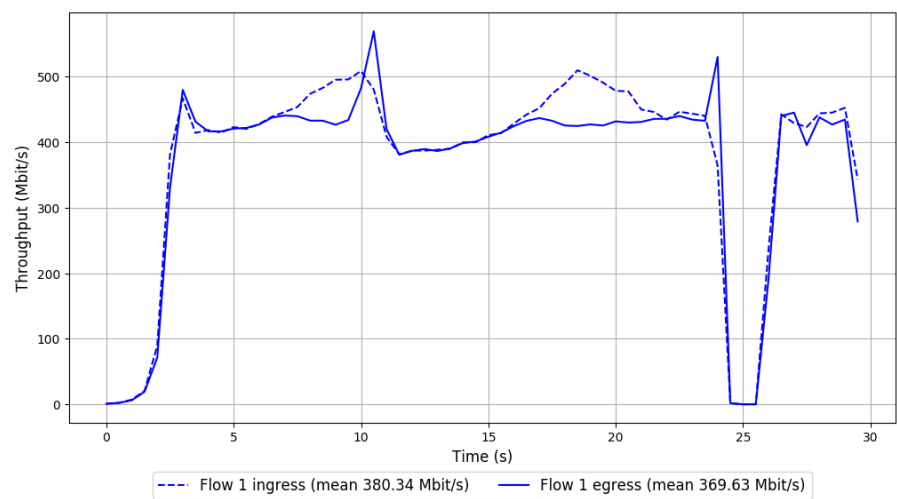
-- Flow 1:

Average throughput: 369.63 Mbit/s

95th percentile per-packet one-way delay: 198.570 ms

Loss rate: 3.15%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-03 08:13:17

End at: 2018-04-03 08:13:47

Below is generated by plot.py at 2018-04-03 13:50:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.19 Mbit/s

95th percentile per-packet one-way delay: 203.675 ms

Loss rate: 3.39%

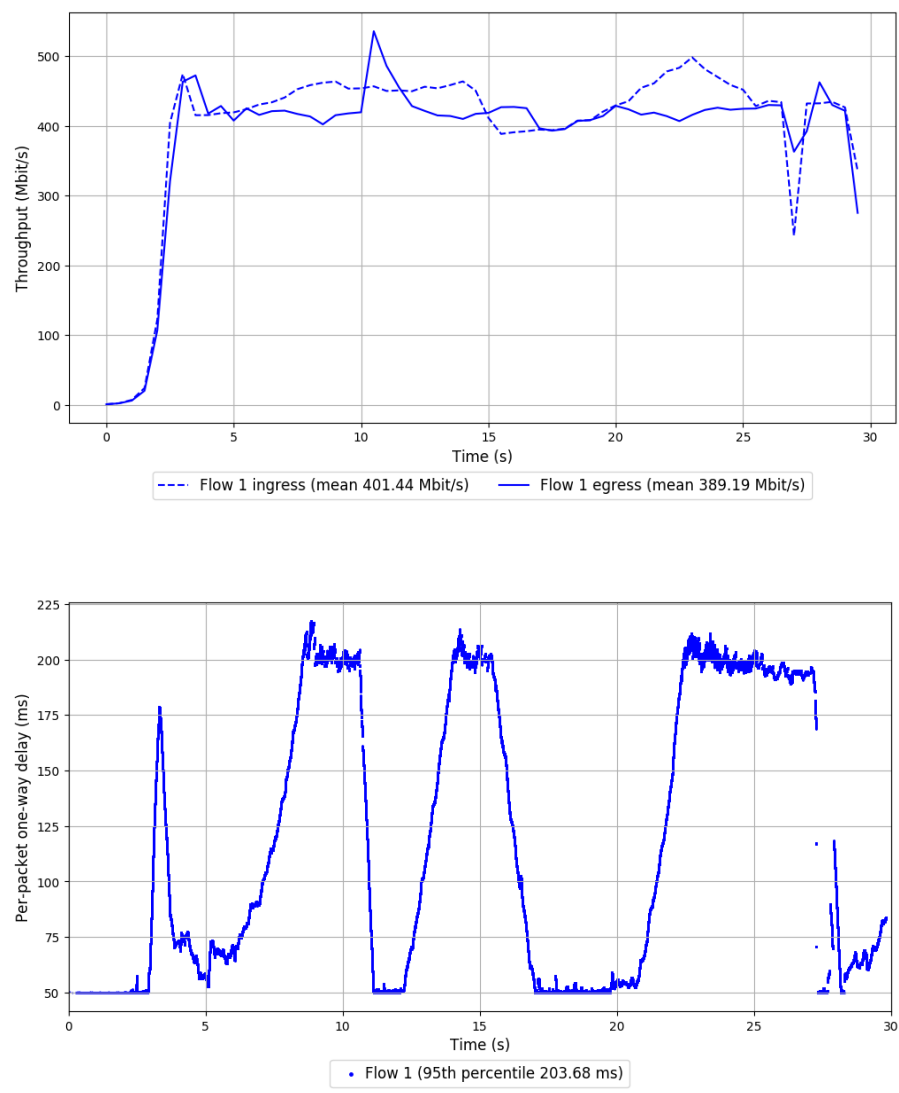
-- Flow 1:

Average throughput: 389.19 Mbit/s

95th percentile per-packet one-way delay: 203.675 ms

Loss rate: 3.39%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-03 08:27:41

End at: 2018-04-03 08:28:11

Below is generated by plot.py at 2018-04-03 13:50:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.62 Mbit/s

95th percentile per-packet one-way delay: 201.875 ms

Loss rate: 6.36%

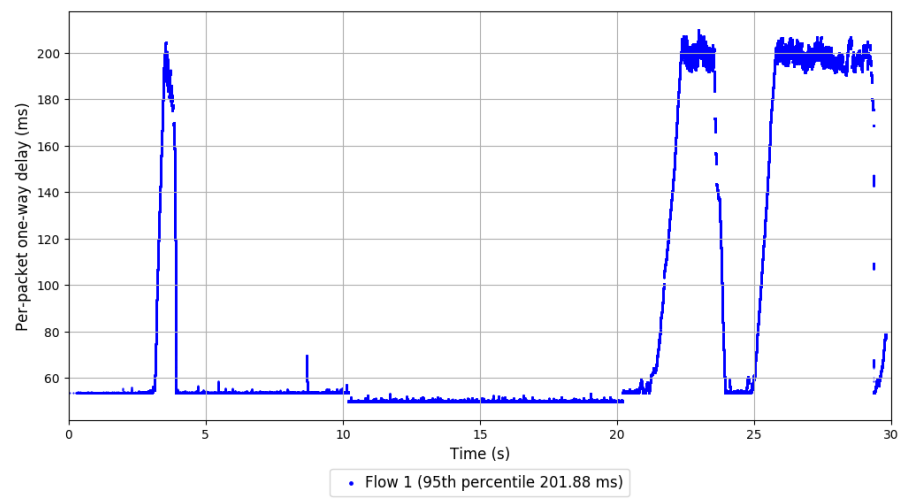
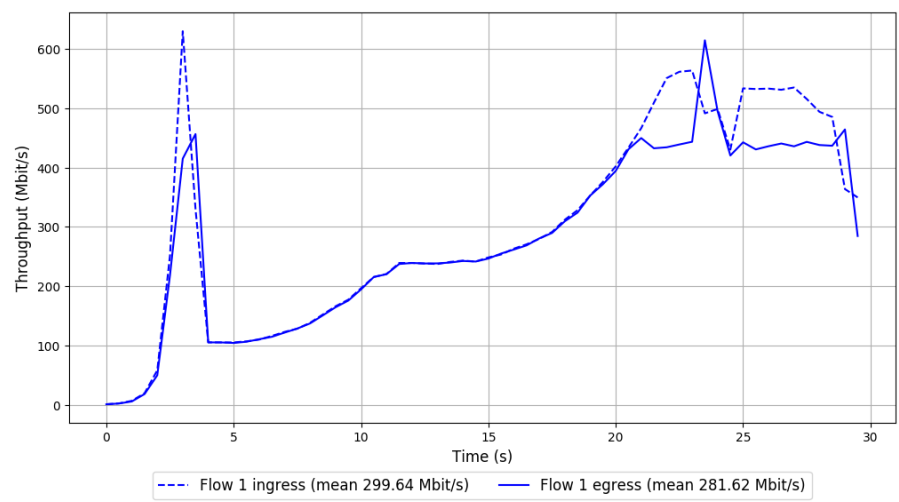
-- Flow 1:

Average throughput: 281.62 Mbit/s

95th percentile per-packet one-way delay: 201.875 ms

Loss rate: 6.36%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-03 08:42:11

End at: 2018-04-03 08:42:41

Below is generated by plot.py at 2018-04-03 13:50:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.69 Mbit/s

95th percentile per-packet one-way delay: 206.487 ms

Loss rate: 2.26%

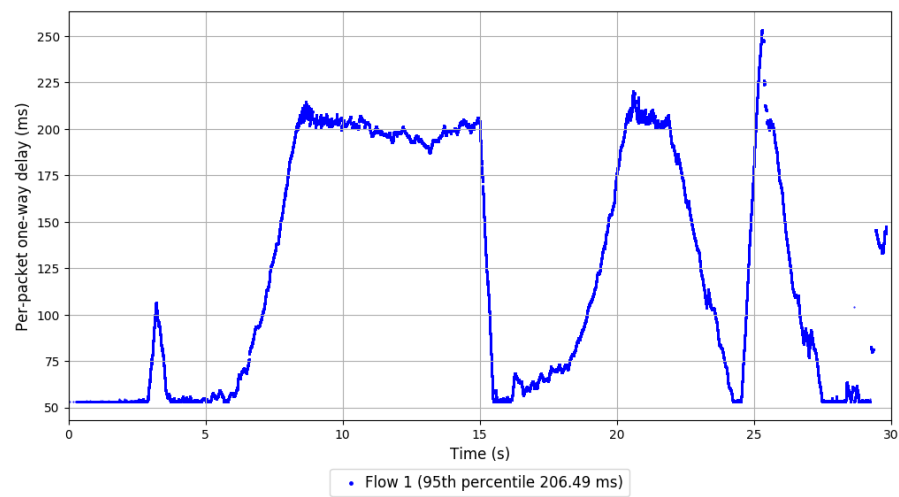
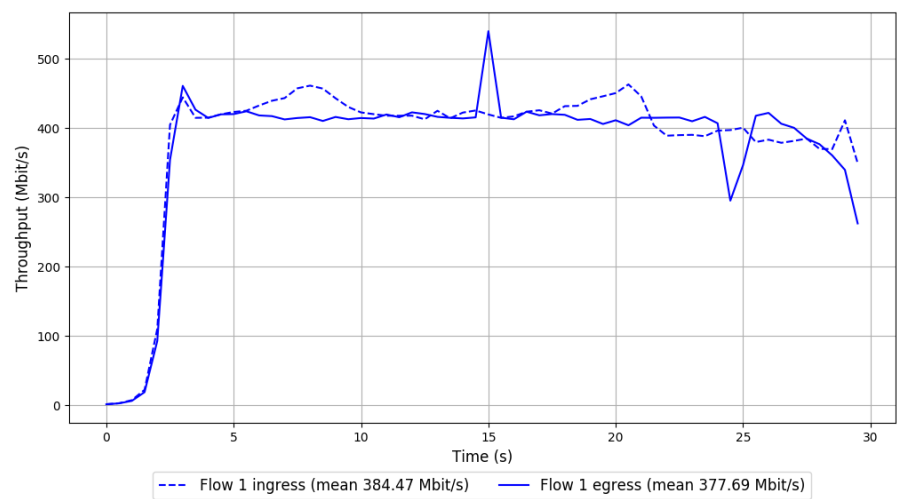
-- Flow 1:

Average throughput: 377.69 Mbit/s

95th percentile per-packet one-way delay: 206.487 ms

Loss rate: 2.26%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-03 08:56:59

End at: 2018-04-03 08:57:29

Below is generated by plot.py at 2018-04-03 13:55:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.19 Mbit/s

95th percentile per-packet one-way delay: 203.299 ms

Loss rate: 4.71%

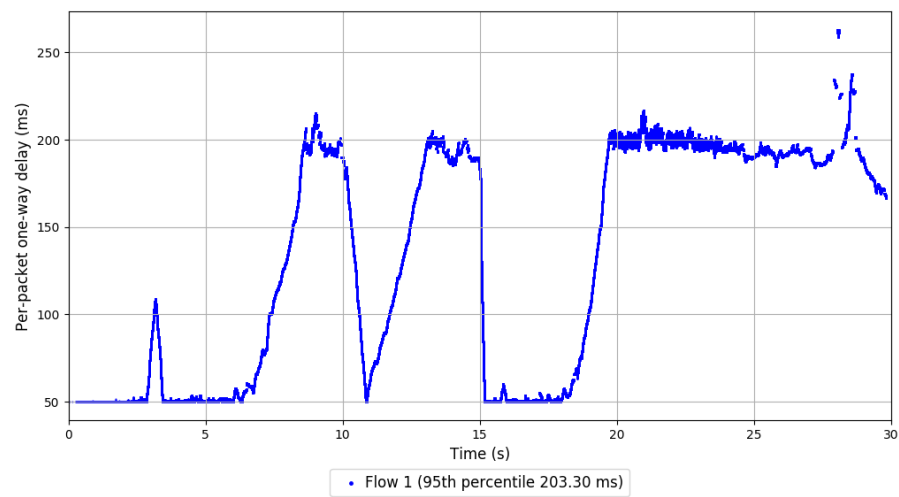
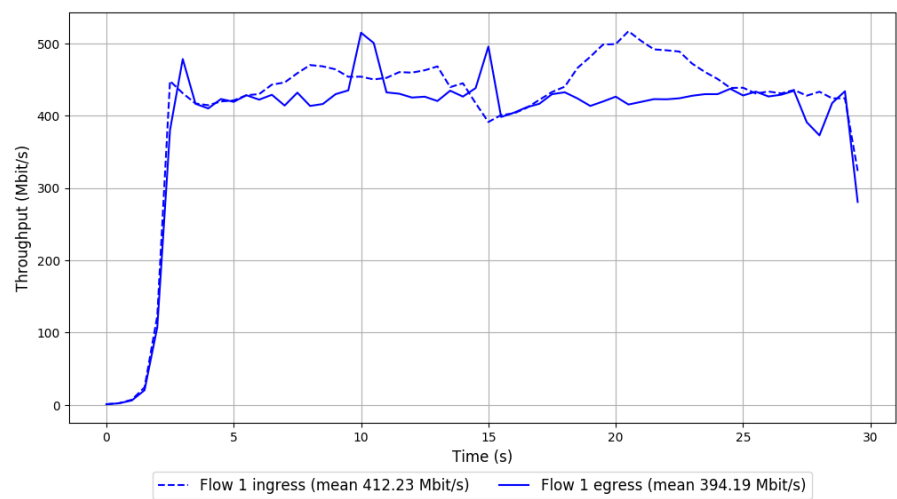
-- Flow 1:

Average throughput: 394.19 Mbit/s

95th percentile per-packet one-way delay: 203.299 ms

Loss rate: 4.71%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-03 09:11:28

End at: 2018-04-03 09:11:58

Below is generated by plot.py at 2018-04-03 13:55:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.40 Mbit/s

95th percentile per-packet one-way delay: 209.501 ms

Loss rate: 4.03%

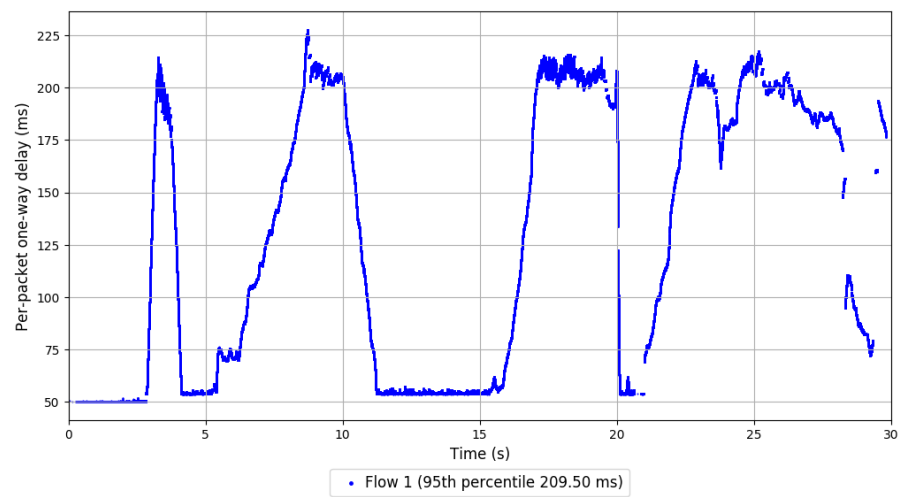
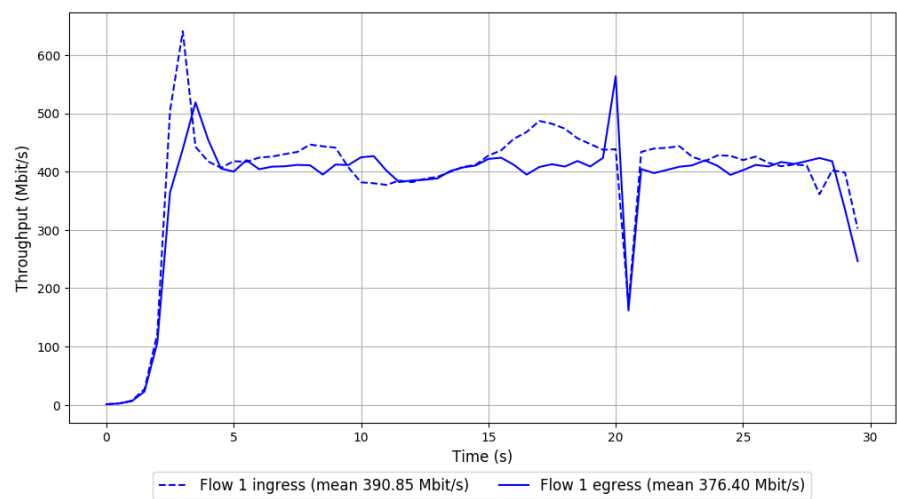
-- Flow 1:

Average throughput: 376.40 Mbit/s

95th percentile per-packet one-way delay: 209.501 ms

Loss rate: 4.03%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-03 09:26:05

End at: 2018-04-03 09:26:35

Below is generated by plot.py at 2018-04-03 13:55:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.90 Mbit/s

95th percentile per-packet one-way delay: 201.045 ms

Loss rate: 3.15%

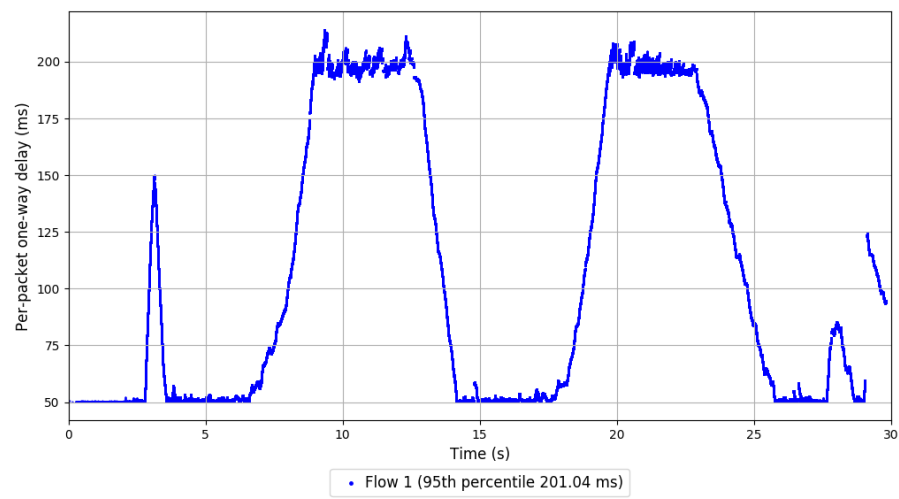
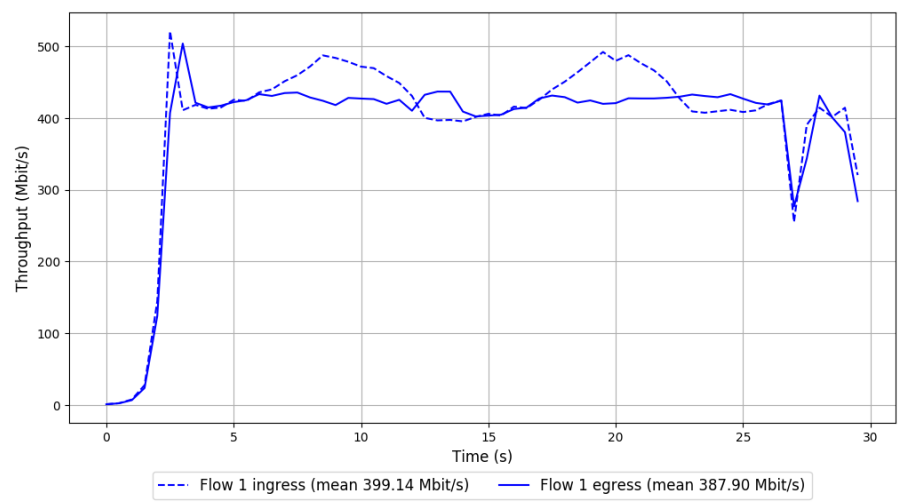
-- Flow 1:

Average throughput: 387.90 Mbit/s

95th percentile per-packet one-way delay: 201.045 ms

Loss rate: 3.15%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-03 09:40:52

End at: 2018-04-03 09:41:22

Below is generated by plot.py at 2018-04-03 13:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.64 Mbit/s

95th percentile per-packet one-way delay: 207.201 ms

Loss rate: 1.94%

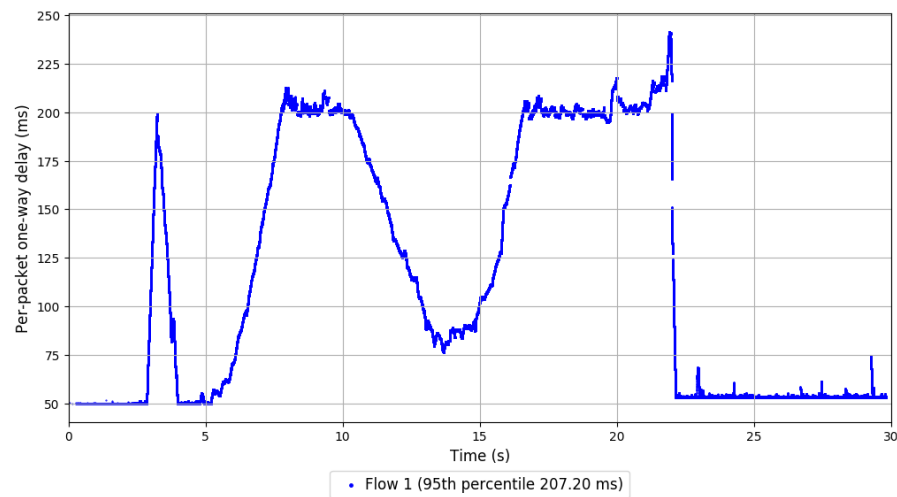
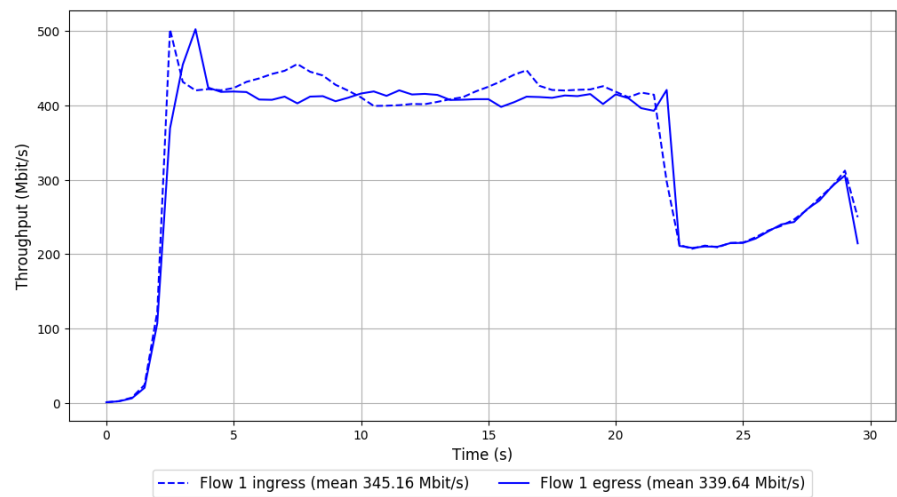
-- Flow 1:

Average throughput: 339.64 Mbit/s

95th percentile per-packet one-way delay: 207.201 ms

Loss rate: 1.94%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-04-03 07:20:33

End at: 2018-04-03 07:21:03

Below is generated by plot.py at 2018-04-03 13:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.13 Mbit/s

95th percentile per-packet one-way delay: 109.490 ms

Loss rate: 0.38%

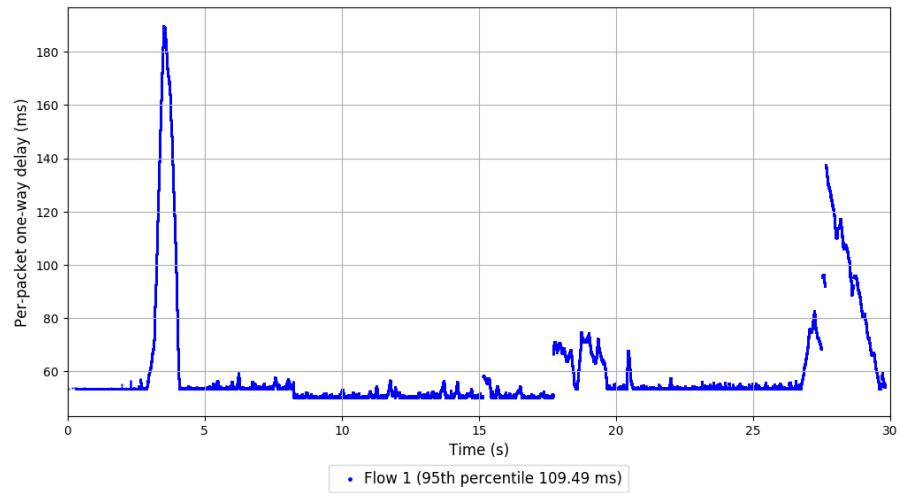
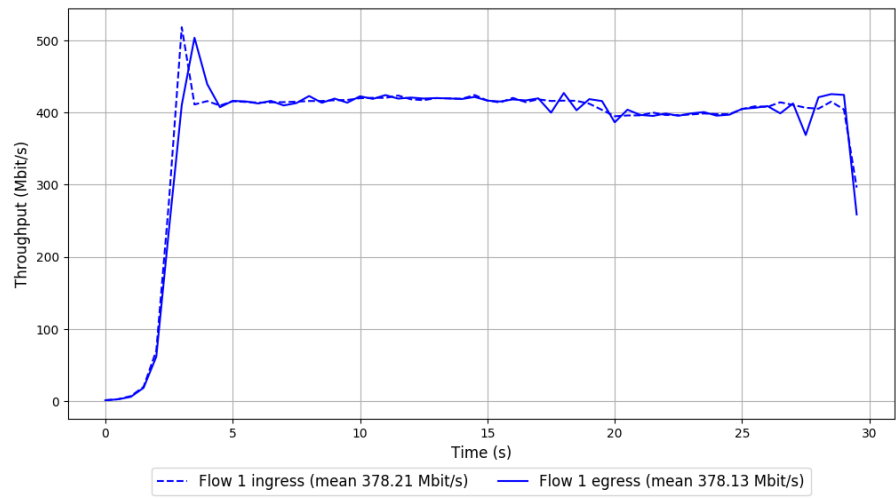
-- Flow 1:

Average throughput: 378.13 Mbit/s

95th percentile per-packet one-way delay: 109.490 ms

Loss rate: 0.38%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-03 07:34:50

End at: 2018-04-03 07:35:20

Below is generated by plot.py at 2018-04-03 13:57:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.27 Mbit/s

95th percentile per-packet one-way delay: 61.433 ms

Loss rate: 0.41%

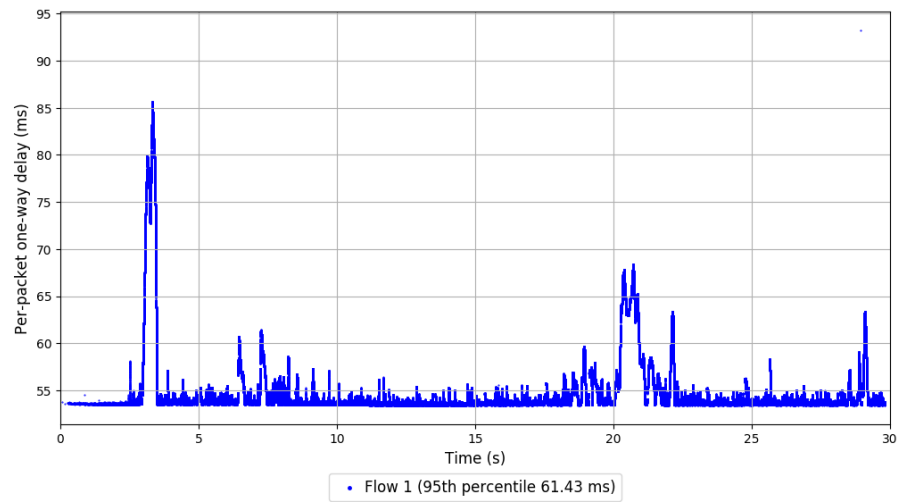
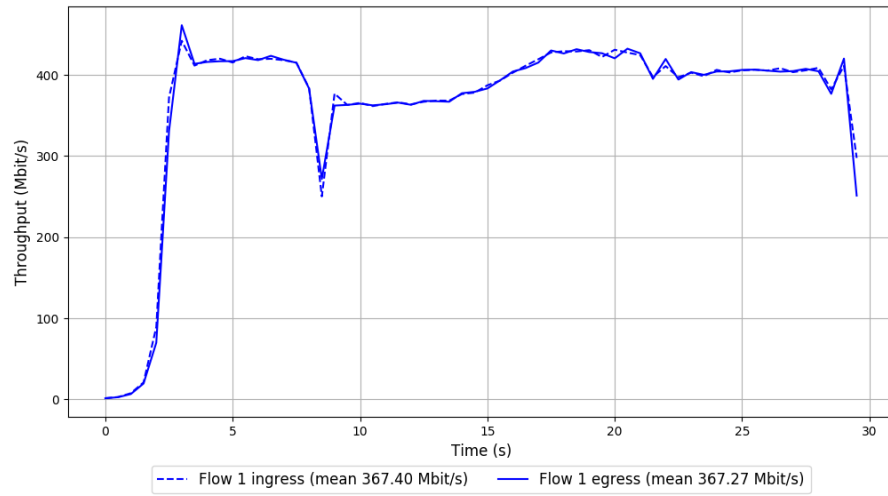
-- Flow 1:

Average throughput: 367.27 Mbit/s

95th percentile per-packet one-way delay: 61.433 ms

Loss rate: 0.41%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-03 07:49:04

End at: 2018-04-03 07:49:34

Below is generated by plot.py at 2018-04-03 13:58:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.49 Mbit/s

95th percentile per-packet one-way delay: 76.212 ms

Loss rate: 0.46%

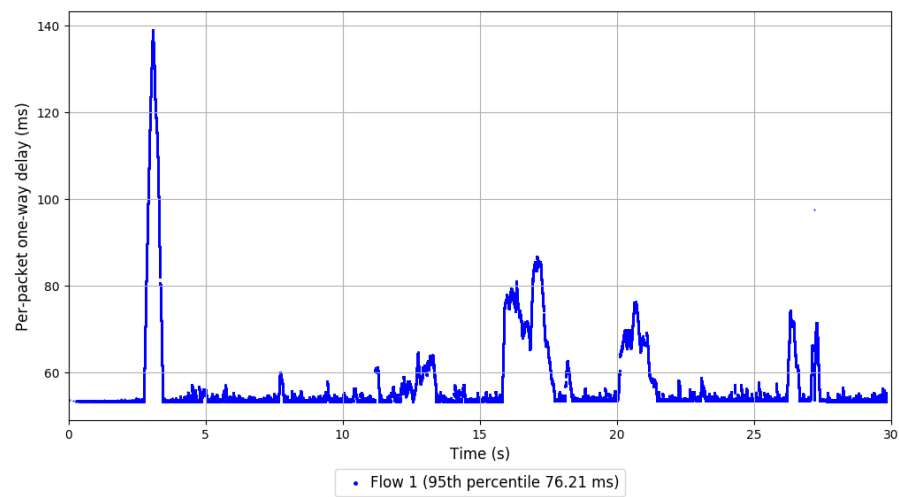
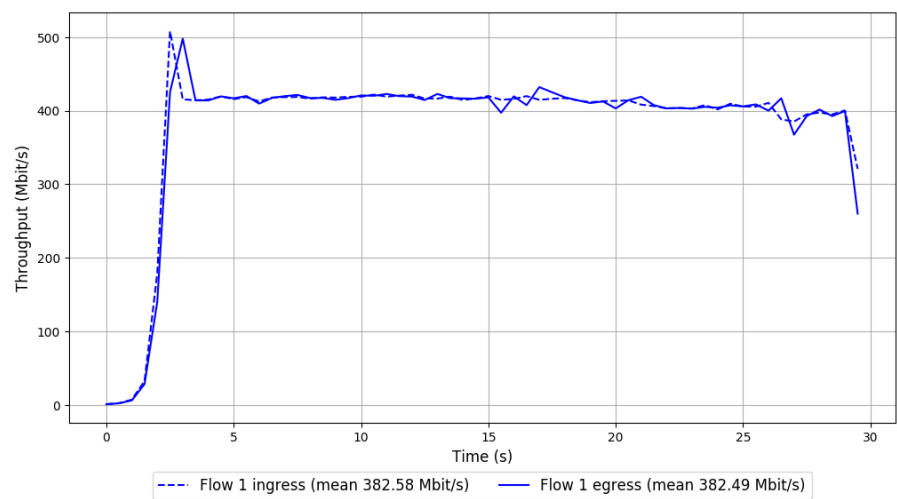
-- Flow 1:

Average throughput: 382.49 Mbit/s

95th percentile per-packet one-way delay: 76.212 ms

Loss rate: 0.46%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-03 08:03:10

End at: 2018-04-03 08:03:40

Below is generated by plot.py at 2018-04-03 13:59:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.48 Mbit/s

95th percentile per-packet one-way delay: 65.928 ms

Loss rate: 0.36%

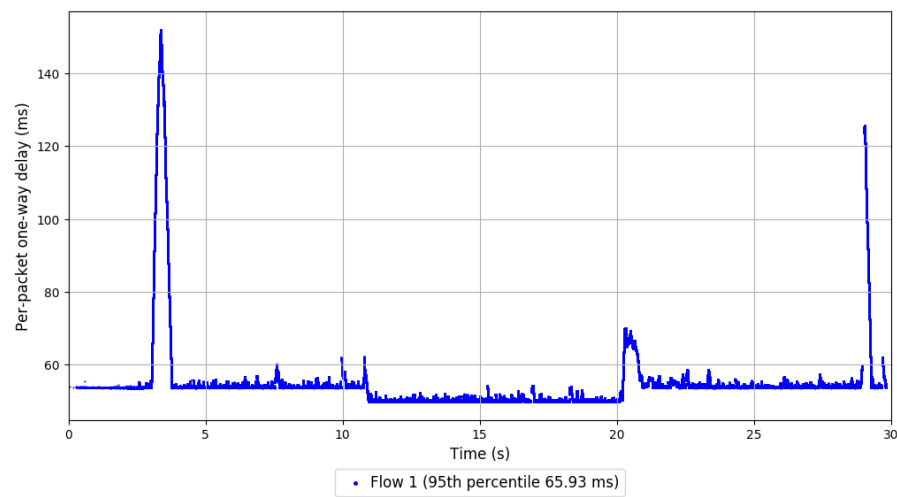
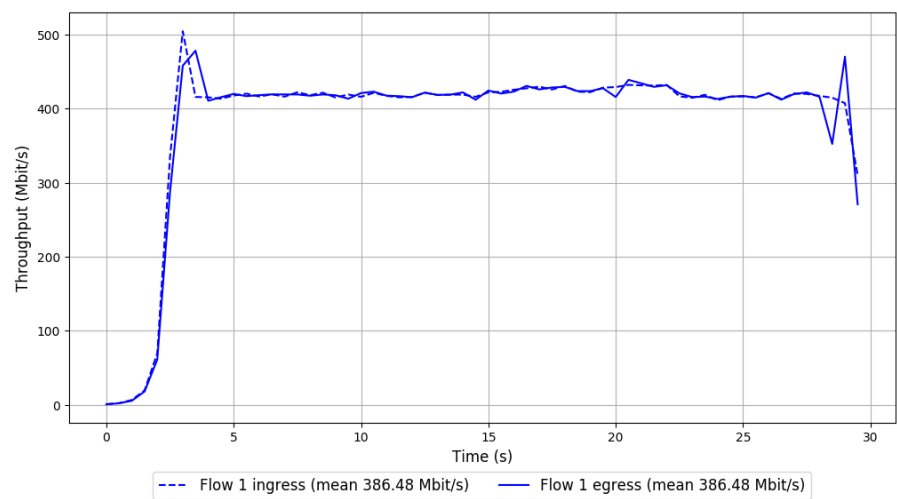
-- Flow 1:

Average throughput: 386.48 Mbit/s

95th percentile per-packet one-way delay: 65.928 ms

Loss rate: 0.36%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-03 08:17:29

End at: 2018-04-03 08:17:59

Below is generated by plot.py at 2018-04-03 14:02:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.88 Mbit/s

95th percentile per-packet one-way delay: 57.553 ms

Loss rate: 0.38%

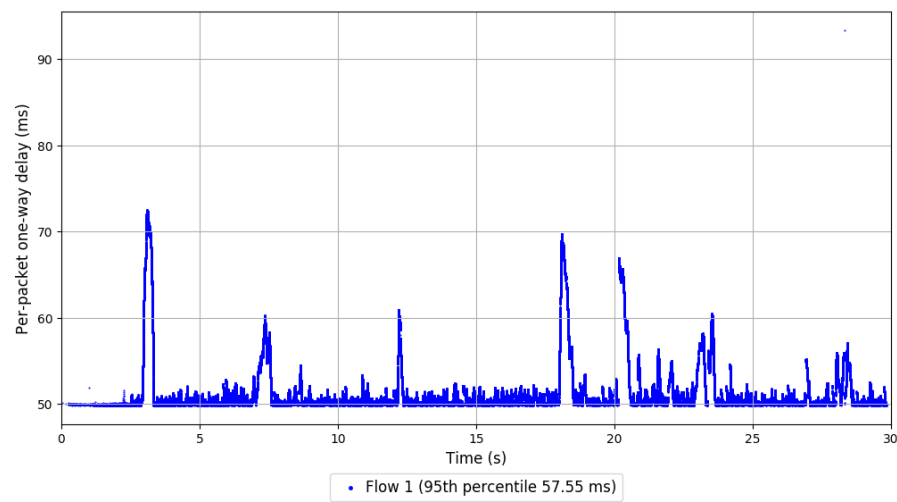
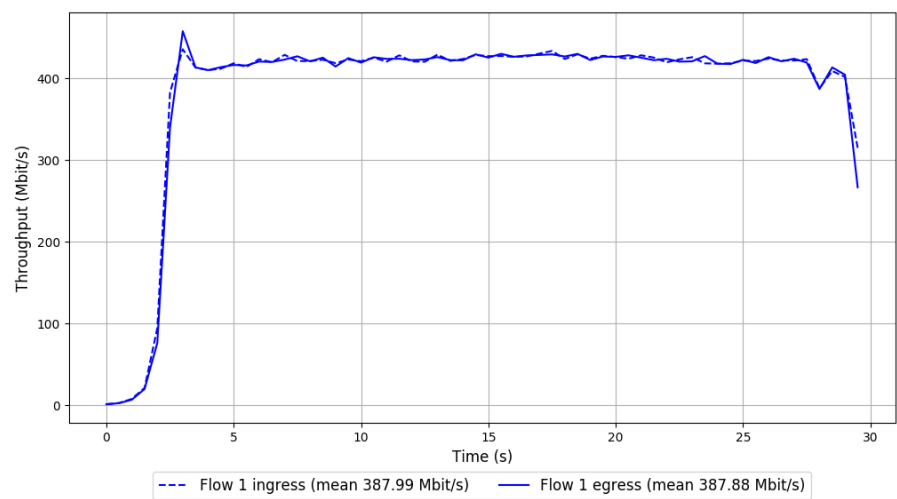
-- Flow 1:

Average throughput: 387.88 Mbit/s

95th percentile per-packet one-way delay: 57.553 ms

Loss rate: 0.38%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-03 08:31:45

End at: 2018-04-03 08:32:15

Below is generated by plot.py at 2018-04-03 14:02:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.62 Mbit/s

95th percentile per-packet one-way delay: 156.180 ms

Loss rate: 0.70%

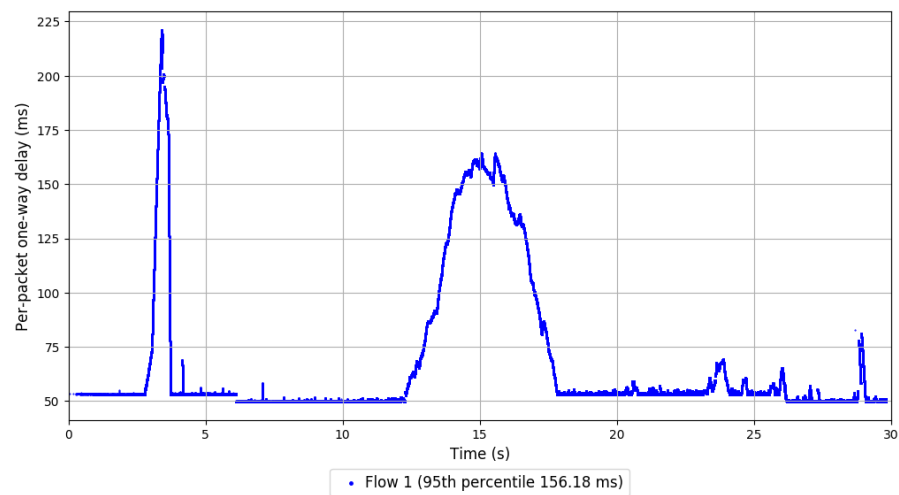
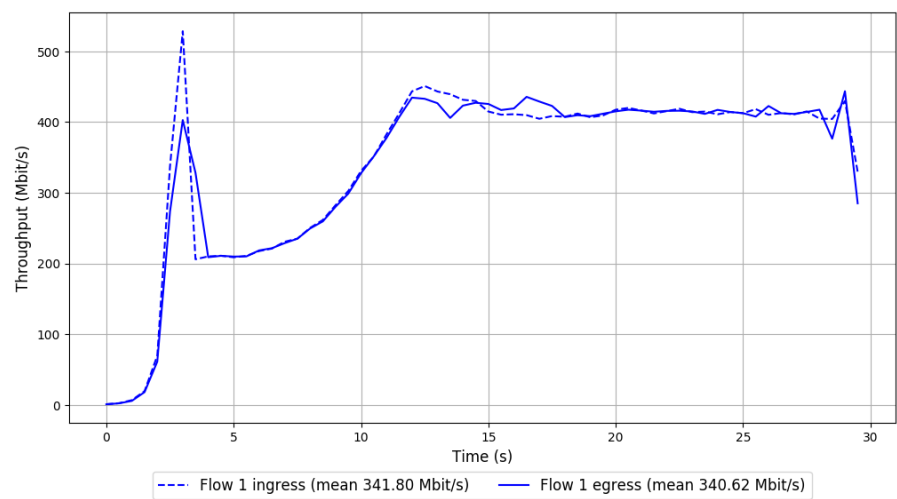
-- Flow 1:

Average throughput: 340.62 Mbit/s

95th percentile per-packet one-way delay: 156.180 ms

Loss rate: 0.70%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-03 08:46:21

End at: 2018-04-03 08:46:51

Below is generated by plot.py at 2018-04-03 14:02:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.94 Mbit/s

95th percentile per-packet one-way delay: 70.558 ms

Loss rate: 0.45%

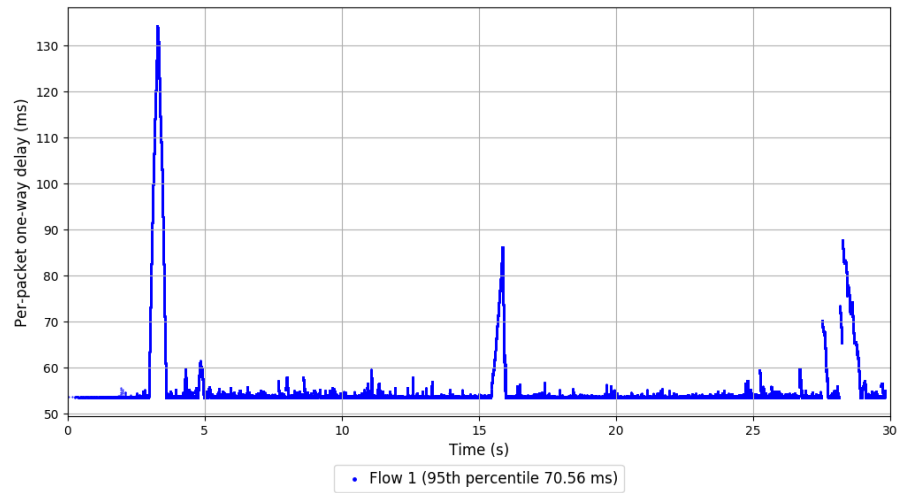
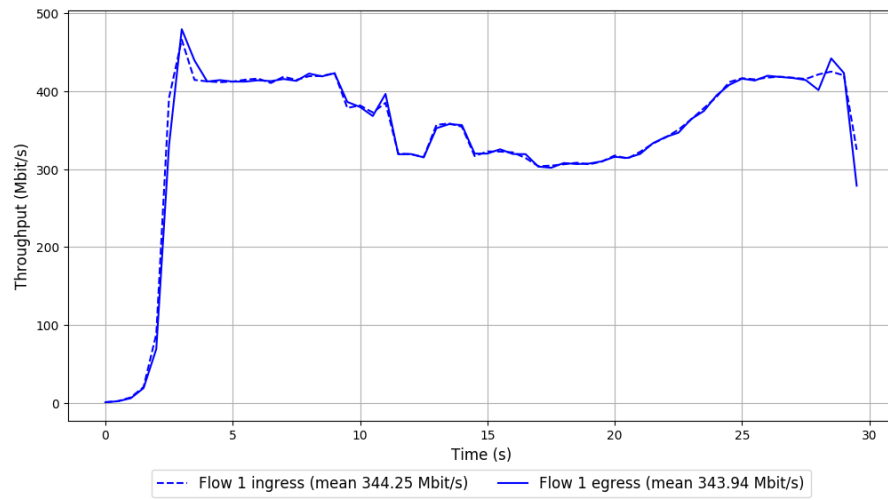
-- Flow 1:

Average throughput: 343.94 Mbit/s

95th percentile per-packet one-way delay: 70.558 ms

Loss rate: 0.45%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-03 09:01:13

End at: 2018-04-03 09:01:43

Below is generated by plot.py at 2018-04-03 14:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.83 Mbit/s

95th percentile per-packet one-way delay: 64.302 ms

Loss rate: 0.41%

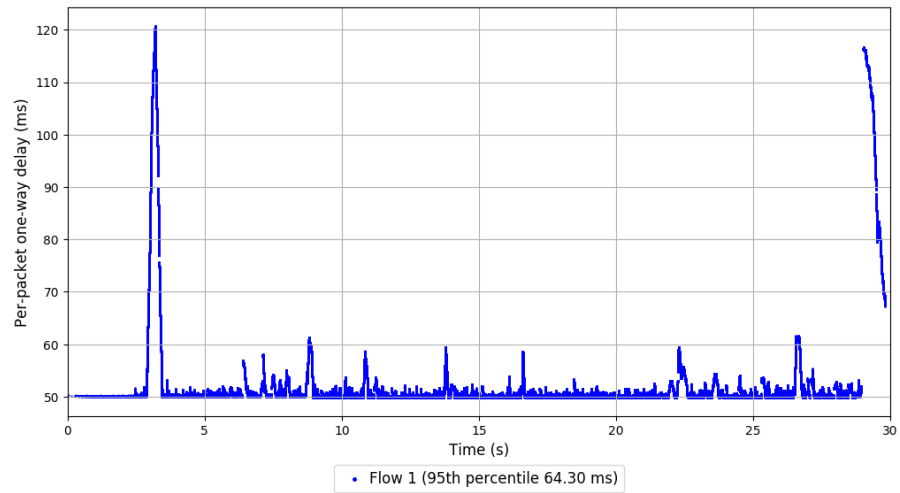
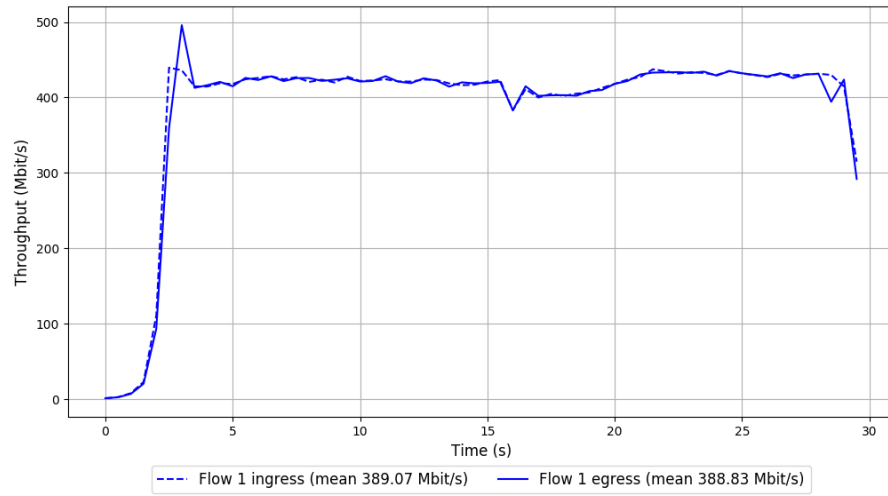
-- Flow 1:

Average throughput: 388.83 Mbit/s

95th percentile per-packet one-way delay: 64.302 ms

Loss rate: 0.41%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-03 09:15:38

End at: 2018-04-03 09:16:09

Below is generated by plot.py at 2018-04-03 14:02:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.27 Mbit/s

95th percentile per-packet one-way delay: 144.913 ms

Loss rate: 0.52%

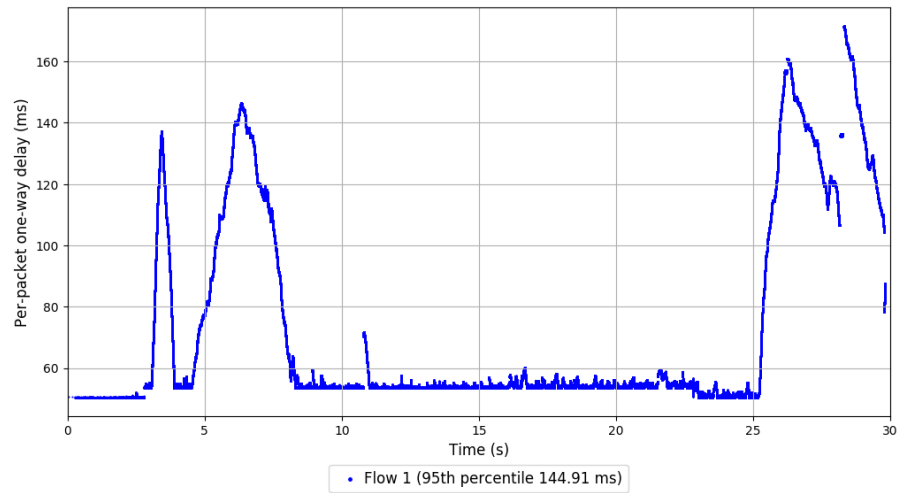
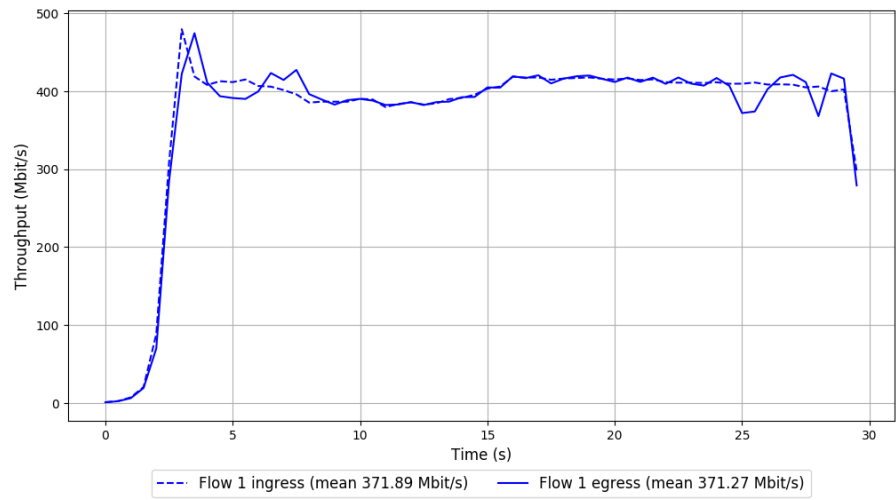
-- Flow 1:

Average throughput: 371.27 Mbit/s

95th percentile per-packet one-way delay: 144.913 ms

Loss rate: 0.52%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-04-03 09:30:17
End at: 2018-04-03 09:30:47

# Below is generated by plot.py at 2018-04-03 14:02:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 380.62 Mbit/s
95th percentile per-packet one-way delay: 78.441 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 380.62 Mbit/s
95th percentile per-packet one-way delay: 78.441 ms
Loss rate: 0.46%
```

Run 10: Report of Vivace-LTE — Data Link

